

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

PARTIAL REPORT

OF

Applicant: CALAMP WIRELESS NETWORKS CORPORATION
2200 Faraday Ave, Suite 220, Carlsbad, CA 92008

Product Name: LMU5541 Broadband Router/Tracker

Brand Name: CalAmp

Model No.: LMU5541LW

Model Difference: N/A

Report Number: ER/2019/C0117

FCC ID APV-5541LW

IC: 5843C-5541LW

FCC Rule Part: 2 , 22H & 24E & 27C & 90S

ISED Rule: RSS-130, 132, 133, 139, 199

Issue Date: Feb. 05, 2020

Date of Test: Dec. 13, 2019 ~ Jan. 31, 2020

Date of EUT Received: Dec. 13, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:



Vito Pei / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2019/C0117	Rev.00	Original.	Feb. 05, 2020	Revised By: Stefanie Yu

Note:

Test data is referenced from cross authorization(s) Measurement results in the original test report HR/2019/1001601 under FCC ID: XMR201903EG25G / IC: 10224A-201903EG25G are partially leveraged in this test report with Radiated Emission Test to demonstrate compliance.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	LMU5541 Broadband Router/Tracker	
Brand Name:	CalAmp	
Model No.:	LMU5541LW	
Model Difference:	N/A	
Hardware Version:	Rev E	
Software Version:	LMU,166 V4.1a	
Power Supply:	12Vdc from Car Battery & 3.7Vdc from Rechargeable Li-ion Battery	
	Battery:	Model No.: GSP633248, Supplier: N/A
IMEI:	2G:867698040302770 3G:867698040302770 4G:867698040302770	

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1.2 Operation Frequency Range

Operating Frequency (MHz)	
GSM/GPRS/EDGE 850	824.2 - 848.8
GSM/GPRS/EDGE 1900	1850.2 - 1909.8
WCDMA / HSPA+ Band II	1852.4 - 1907.6
WCDMA / HSPA+ Band IV	1712.4 - 1752.6
WCDMA / HSPA+ Band V	826.4 - 846.6

LTE Band 2	
BW (MHz)	Operation Frequency (MHz)
1.4	1850.7 - 1909.3
3	1851.5 - 1908.5
5	1852.5 - 1907.5
10	1855.0 - 1905.0
15	1857.5 - 1902.5
20	1860.0 - 1900.0
LTE Band 4	
BW (MHz)	Operation Frequency (MHz)
1.4	1710.7 - 1754.3
3	1711.5 - 1753.5
5	1712.5 - 1752.5
10	1715.0 - 1750.0
15	1717.5 - 1747.5
20	1720.0 - 1745.0
LTE Band 5	
BW (MHz)	Operation Frequency (MHz)
1.4	824.7 - 848.3
3	825.5 - 847.5
5	826.5 - 846.5
10	829.0 - 844.0
LTE Band 7	
BW (MHz)	Operation Frequency (MHz)
5	2502.5 - 2567.5
10	2505.0 - 2565.0
15	2507.5 - 2562.5
20	2510.0 - 2560.0

LTE Band 12	
BW (MHz)	Operation Frequency (MHz)
1.4	699.7 - 715.3
3	700.5 - 714.5
5	701.5 - 713.5
10	704.0 - 711.0
LTE Band 13	
BW (MHz)	Operation Frequency (MHz)
5	779.5 - 784.5
10	782.0
LTE Band 25	
BW (MHz)	Operation Frequency (MHz)
1.4	1850.7 - 1914.3
3	1851.5 - 1913.5
5	1852.5 - 1912.5
10	1855.0 - 1910.0
15	1857.5 - 1907.5
20	1860.0 - 1905.0
LTE Band 26	
BW (MHz)	Operation Frequency (MHz)
1.4	824.7 - 848.3
3	825.5 - 847.5
5	826.5 - 846.5
10	829.0 - 844.0
15	831.5 - 841.5
LTE Band 26 Part 90	
BW (MHz)	Operation Frequency (MHz)
1.4	814.7 - 823.3
3	815.5 - 822.5
5	816.5 - 821.5
10	819.0

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LTE Band 38	
BW (MHz)	Operation Frequency (MHz)
5	2572.5 - 2617.5
10	2575.0 - 2615.0
15	2577.5 - 2612.5
20	2580.0 - 2610.0

LTE Band 41	
BW (MHz)	Operation Frequency (MHz)
5	2498.5 - 2687.5
10	2501.0 - 2685.0
15	2503.5 - 2682.5
20	2506.0 - 2680.0

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1.3 Antenna Designation

Type	Vendor.	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
PIFA	TAOGLAS	Main / Aux	MA284.LBIC.001	GSM / GPRS850	824.2 ~ 848.8	2.75
				GSM / GPRS1900	1850.2 ~ 1909.8	3.63
				WCDMA / HSPA Band II	1825.4 ~ 1907.6	3.63
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	3.79
				WCDMA / HSPA Band V	826.4 ~ 846.6	2.75
				LTE Band 2	1850 ~ 1910	3.63
				LTE Band 4	1710 ~ 1755	3.79
				LTE Band 5	824 ~ 849	2.75
				LTE Band 7	2500 ~ 2570	3.22
				LTE Band 12	699 ~ 716	2.38
				LTE Band 13	777 ~ 787	2.38
				LTE Band 25	1850 ~ 1915	3.63
				LTE Band 26	825 ~ 848	2.75
				LTE Band 26 (Part 90)	814 ~ 824	2.75
				LTE Band 38	2573 ~ 2618	3.22
LTE Band 41	2496 ~ 2690	3.22				

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, 90S

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018, ISED RSS-139 Issue 3 July 16, 2015

ISED RSS-199 Issue 3 Dec. 2016,

ISED RSS-132 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

1.5 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0001

ISED CAB identifier: TW0513

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation in physical test.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

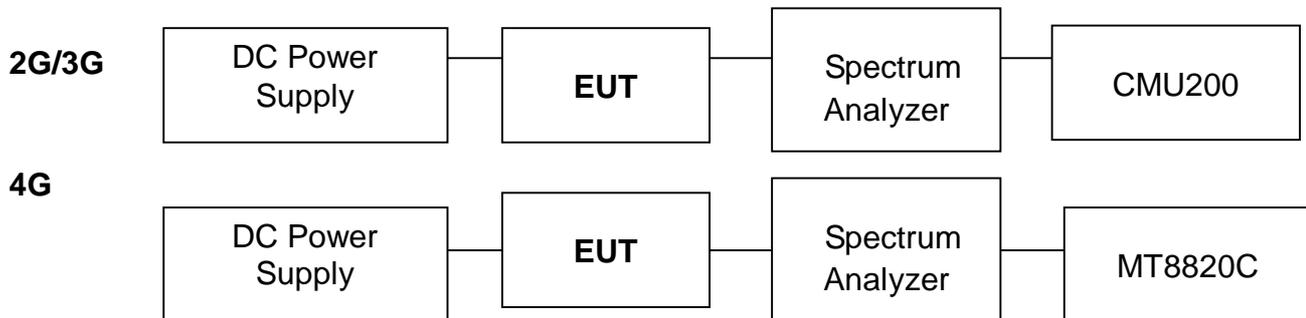


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

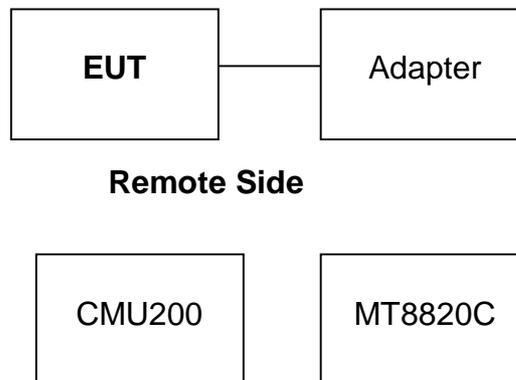


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	H PLAN	E1 PLAN	E2 PLAN
GSM/GPRS/EDGE 850			V
GSM/GPRS/EDGE 1900			V
WCDMA/HSPA Band II			V
WCDMA/HSPA Band IV			V
WCDMA/HSPA Band V			V
LTE Band 2			V
LTE Band 4			V
LTE Band 5			V
LTE Band 7			V
LTE Band 12			V
LTE Band 13			V
LTE Band 25			V
LTE Band 26			V
LTE Band 26 (Part 90)			V
LTE Band 38			V
LTE Band 41			V

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MAXMUM OUTPUT POWER

6.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b)

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 27.50(c)

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

(7) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band are limited to 2 watts EIRP.

FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

FCC 90.635(b)

Mobile station is limited to 100W ERP

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RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

RSS-139 §6.5

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment.

RSS-199 §4.4

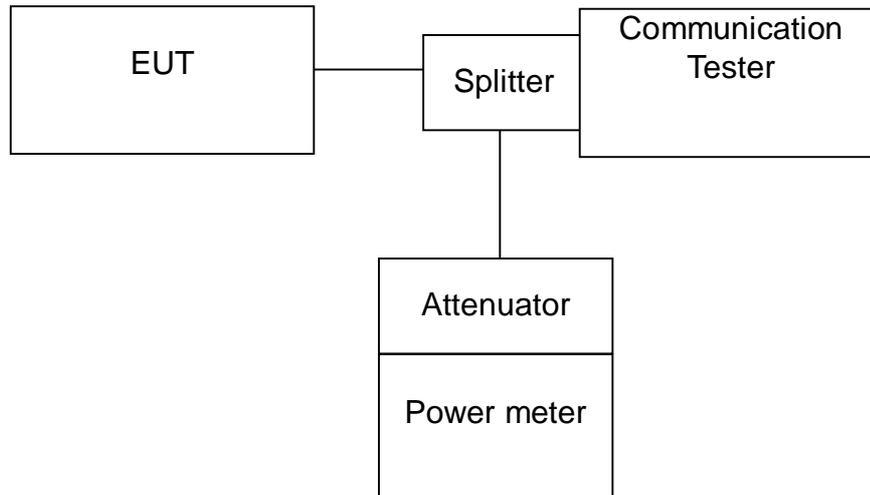
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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6.4 Determining ERP and/or EIRP from conducted RF output power measurements

$$ERP/EIRP = P_{Meas} + GT-LC$$

Where:

- ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);
- P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
- GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)
- LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

6.5 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020

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6.6 Measurement Result:

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	31.74	29.92	28.56	27.25
	836.6	190	31.64	29.88	28.49	27.33
	848.8	251	31.75	29.92	28.63	27.30
GPRS 1900	1850.2	512	30.46	29.43	27.83	26.49
	1880.0	661	30.24	29.54	27.58	26.59
	1909.8	810	30.27	29.64	27.92	26.66

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GSM 850	824.2	128	32.07	2.75	32.67	34.82	38.50	-3.68
	836.6	190	32.04	2.75	32.64	34.79	38.50	-3.71
	848.8	251	32.06	2.75	32.66	34.81	38.50	-3.69
GSM 1900	1850.2	512	29.26	3.63	30.74	32.89	33.00	-0.11
	1880.0	661	29.06	3.63	30.54	32.69	33.00	-0.31
	1909.8	810	29.13	3.63	30.61	32.76	33.00	-0.24
GPRS 850	824.2	128	31.74	2.75	32.34	34.49	38.50	-4.01
	836.6	190	31.64	2.75	32.24	34.39	38.50	-4.11
	848.8	251	31.75	2.75	32.35	34.50	38.50	-4.00
GPRS 1900	1850.2	512	29.11	3.63	30.59	32.74	33.00	-0.26
	1880.0	661	29.01	3.63	30.49	32.64	33.00	-0.36
	1909.8	810	29.00	3.63	30.48	32.63	33.00	-0.37

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6.7 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.48	3.63	23.96	26.11	33.00	-6.89
	1880.0	9400	22.58	3.63	24.06	26.21	33.00	-6.79
	1907.6	9538	22.49	3.63	23.97	26.12	33.00	-6.88
HSDPA	1852.4	9262	21.45	3.63	22.93	25.08	33.00	-7.92
	1880.0	9400	21.59	3.63	23.07	25.22	33.00	-7.78
	1907.6	9538	21.48	3.63	22.96	25.11	33.00	-7.89
HSUPA	1852.4	9262	20.89	3.63	22.37	24.52	33.00	-8.48
	1880.0	9400	20.96	3.63	22.44	24.59	33.00	-8.41
	1907.6	9538	20.98	3.63	22.46	24.61	33.00	-8.39

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	22.70	3.79	24.34	26.49	30.00	-3.51
	1732.6	1413	22.77	3.79	24.41	26.56	30.00	-3.44
	1752.6	1513	22.65	3.79	24.29	26.44	30.00	-3.56
HSDPA	1712.4	1312	21.57	3.79	23.21	25.36	30.00	-4.64
	1732.6	1413	21.71	3.79	23.35	25.50	30.00	-4.50
	1752.6	1513	22.60	3.79	24.24	26.39	30.00	-3.61
HSUPA	1712.4	1312	21.05	3.79	22.69	24.84	30.00	-5.16
	1732.6	1413	21.16	3.79	22.80	24.95	30.00	-5.05
	1752.6	1513	21.08	3.79	22.72	24.87	30.00	-5.13

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	22.42	2.75	23.02	25.17	38.50	-13.33
	836.6	4183	22.39	2.75	22.99	25.14	38.50	-13.36
	846.6	4233	22.51	2.75	23.11	25.26	38.50	-13.24
HSDPA	826.4	4132	21.25	2.75	21.85	24.00	38.50	-14.50
	836.6	4183	21.43	2.75	22.03	24.18	38.50	-14.32
	846.6	4233	21.64	2.75	22.24	24.39	38.50	-14.11
HSUPA	826.4	4132	20.93	2.75	21.53	23.68	38.50	-14.82
	836.6	4183	20.99	2.75	21.59	23.74	38.50	-14.76
	846.6	4233	21.21	2.75	21.81	23.96	38.50	-14.54

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6.7.1 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

6.7.2 HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	21.45	21.59	21.48
	2	21.32	21.48	21.45
	3	21.12	21.29	21.38
	4	21.28	21.37	21.42
Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	21.57	21.71	22.60
	2	21.67	21.59	21.47
	3	21.71	21.85	21.63
	4	21.66	21.69	21.55

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	21.25	21.43	21.64
	2	21.38	21.49	21.59
	3	21.41	21.47	21.55
	4	21.38	21.58	21.68

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6.7.3 HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_d/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	20.89	20.96	20.98
	2	21.15	21.03	20.89
	3	21.25	21.21	21.01
	4	21.04	20.99	21.12
	5	20.78	20.88	20.95
Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	21.05	21.16	21.08
	2	21.22	21.08	21.14
	3	21.20	21.13	21.07
	4	21.60	20.98	20.90
	5	20.70	20.78	20.88

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	20.93	20.99	21.21
	2	20.85	21.04	21.15
	3	20.98	21.09	21.23
	4	20.96	21.11	21.05
	5	20.89	20.98	20.99

6.7.4 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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6.8 LTE Measurement Results:

Antenna gain (dBi) 3.63

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	21.26	24.89	33	-8.11
				1	5	21.35	24.98	33	-8.02
				3	2	21.55	25.18	33	-7.82
				6	0	20.34	23.97	33	-9.03
	18900	1880	QPSK	1	0	21.63	25.26	33	-7.74
				1	5	21.75	25.38	33	-7.62
				3	2	21.75	25.38	33	-7.62
				6	0	20.88	24.51	33	-8.49
	19193	1909.3	QPSK	1	0	21.83	25.46	33	-7.54
				1	5	21.63	25.26	33	-7.74
				3	2	21.71	25.34	33	-7.66
				6	0	20.64	24.27	33	-8.73
	18607	1850.7	16QAM	1	0	20.05	23.68	33	-9.32
				1	5	20.37	24.00	33	-9
				3	2	20.28	23.91	33	-9.09
				6	0	19.32	22.95	33	-10.05
	18900	1880	16QAM	1	0	20.52	24.15	33	-8.85
				1	5	20.85	24.48	33	-8.52
				3	2	20.96	24.59	33	-8.41
				6	0	20.15	23.78	33	-9.22
	19193	1909.3	16QAM	1	0	20.72	24.35	33	-8.65
				1	5	20.32	23.95	33	-9.05
				3	2	20.35	23.98	33	-9.02
				6	0	19.56	23.19	33	-9.81

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Antenna gain (dBi) 3.63

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	21.54	25.17	33	-7.83
				1	14	21.50	25.13	33	-7.87
				8	4	20.61	24.24	33	-8.76
				15	0	20.14	23.77	33	-9.23
	18900	1880	QPSK	1	0	21.30	24.93	33	-8.07
				1	14	21.77	25.40	33	-7.6
				8	4	20.85	24.48	33	-8.52
				15	0	20.80	24.43	33	-8.57
	19185	1908.5	QPSK	1	0	21.80	25.43	33	-7.57
				1	14	21.60	25.23	33	-7.77
				8	4	20.85	24.48	33	-8.52
				15	0	20.78	24.41	33	-8.59
	18615	1851.5	16QAM	1	0	20.53	24.16	33	-8.84
				1	14	19.92	23.55	33	-9.45
				8	4	19.52	23.15	33	-9.85
				15	0	19.28	22.91	33	-10.09
	18900	1880	16QAM	1	0	20.57	24.20	33	-8.8
				1	14	20.45	24.08	33	-8.92
				8	4	19.89	23.52	33	-9.48
				15	0	19.64	23.27	33	-9.73
	19185	1908.5	16QAM	1	0	20.90	24.53	33	-8.47
				1	14	20.72	24.35	33	-8.65
				8	4	19.72	23.35	33	-9.65
				15	0	19.54	23.17	33	-9.83

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Antenna gain (dBi) 3.63

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	21.45	25.08	33	-7.92
				1	24	21.58	25.21	33	-7.79
				12	6	20.51	24.14	33	-8.86
				25	0	20.46	24.09	33	-8.91
	18900	1880	QPSK	1	0	21.65	25.28	33	-7.72
				1	24	21.59	25.22	33	-7.78
				12	6	20.81	24.44	33	-8.56
				25	0	20.72	24.35	33	-8.65
	19175	1907.5	QPSK	1	0	21.66	25.29	33	-7.71
				1	24	21.70	25.33	33	-7.67
				12	6	20.92	24.55	33	-8.45
				25	0	20.74	24.37	33	-8.63
	18625	1852.5	16QAM	1	0	20.20	23.83	33	-9.17
				1	24	19.83	23.46	33	-9.54
				12	6	19.26	22.89	33	-10.11
				25	0	19.26	22.89	33	-10.11
	18900	1880	16QAM	1	0	19.93	23.56	33	-9.44
				1	24	20.71	24.34	33	-8.66
				12	6	19.68	23.31	33	-9.69
				25	0	19.72	23.35	33	-9.65
19175	1907.5	16QAM	1	0	20.68	24.31	33	-8.69	
			1	24	19.77	23.40	33	-9.6	
			12	6	19.62	23.25	33	-9.75	
			25	0	19.28	22.91	33	-10.09	

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	21.49	25.12	33	-7.88
				1	49	21.89	25.52	33	-7.48
				25	12	20.73	24.36	33	-8.64
				50	0	20.57	24.20	33	-8.8
	18900	1880	QPSK	1	0	21.91	25.54	33	-7.46
				1	49	21.89	25.52	33	-7.48
				25	12	20.79	24.42	33	-8.58
				50	0	20.65	24.28	33	-8.72
	19150	1905	QPSK	1	0	21.94	25.57	33	-7.43
				1	49	21.78	25.41	33	-7.59
				25	12	20.96	24.59	33	-8.41
				50	0	20.72	24.35	33	-8.65
	18650	1855	16QAM	1	0	20.21	23.84	33	-9.16
				1	49	20.48	24.11	33	-8.89
				25	12	19.57	23.20	33	-9.8
				50	0	19.68	23.31	33	-9.69
	18900	1880	16QAM	1	0	20.66	24.29	33	-8.71
				1	49	20.57	24.20	33	-8.8
				25	12	19.87	23.50	33	-9.5
				50	0	19.65	23.28	33	-9.72
19150	1905	16QAM	1	0	20.51	24.14	33	-8.86	
			1	49	20.31	23.94	33	-9.06	
			25	12	19.95	23.58	33	-9.42	
			50	0	18.85	22.48	33	-10.52	

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	21.64	25.27	33	-7.73
				1	74	21.91	25.54	33	-7.46
				36	18	20.93	24.56	33	-8.44
				75	0	20.45	24.08	33	-8.92
	18900	1880	QPSK	1	0	21.64	25.27	33	-7.73
				1	74	21.88	25.51	33	-7.49
				36	18	20.85	24.48	33	-8.52
				75	0	20.71	24.34	33	-8.66
	19125	1902.5	QPSK	1	0	21.75	25.38	33	-7.62
				1	74	21.73	25.36	33	-7.64
				36	18	20.81	24.44	33	-8.56
				75	0	20.64	24.27	33	-8.73
	18675	1857.5	16QAM	1	0	20.55	24.18	33	-8.82
				1	74	20.18	23.81	33	-9.19
				36	18	19.82	23.45	33	-9.55
				75	0	19.70	23.33	33	-9.67
	18900	1880	16QAM	1	0	20.55	24.18	33	-8.82
				1	74	20.32	23.95	33	-9.05
				36	18	19.94	23.57	33	-9.43
				75	0	19.73	23.36	33	-9.64
19125	1902.5	16QAM	1	0	20.26	23.89	33	-9.11	
			1	74	20.70	24.33	33	-8.67	
			36	18	19.82	23.45	33	-9.55	
			75	0	19.73	23.36	33	-9.64	

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Antenna gain (dBi) 3.63

LTE Band 2 Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	21.37	25.00	33	-8
				1	99	21.35	24.98	33	-8.02
				50	25	20.97	24.60	33	-8.4
				100	0	20.80	24.43	33	-8.57
	18900	1880	QPSK	1	0	21.33	24.96	33	-8.04
				1	99	21.81	25.44	33	-7.56
				50	25	20.93	24.56	33	-8.44
				100	0	20.82	24.45	33	-8.55
	19100	1900	QPSK	1	0	21.83	25.46	33	-7.54
				1	99	21.81	25.44	33	-7.56
				50	25	20.76	24.39	33	-8.61
				100	0	20.91	24.54	33	-8.46
	18700	1860	16QAM	1	0	20.15	23.78	33	-9.22
				1	99	20.64	24.27	33	-8.73
				50	25	19.97	23.60	33	-9.4
				100	0	19.90	23.53	33	-9.47
	18900	1880	16QAM	1	0	20.93	24.56	33	-8.44
				1	99	20.59	24.22	33	-8.78
				50	25	19.90	23.53	33	-9.47
				100	0	19.75	23.38	33	-9.62
19100	1900	16QAM	1	0	20.46	24.09	33	-8.91	
			1	99	20.71	24.34	33	-8.66	
			50	25	19.82	23.45	33	-9.55	
			100	0	19.72	23.35	33	-9.65	

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Antenna gain (dBi) 3.79

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	21.78	25.57	30	-4.43
				1	5	21.87	25.66	30	-4.34
				3	2	21.92	25.71	30	-4.29
				6	0	20.84	24.63	30	-5.37
	20175	1732.5	QPSK	1	0	21.93	25.72	30	-4.28
				1	5	22.10	25.89	30	-4.11
				3	2	22.07	25.86	30	-4.14
				6	0	21.04	24.83	30	-5.17
	20393	1754.3	QPSK	1	0	21.41	25.20	30	-4.8
				1	5	21.92	25.71	30	-4.29
				3	2	21.89	25.68	30	-4.32
				6	0	20.86	24.65	30	-5.35
	19957	1710.7	16QAM	1	0	20.19	23.98	30	-6.02
				1	5	20.49	24.28	30	-5.72
				3	2	20.14	23.93	30	-6.07
				6	0	19.73	23.52	30	-6.48
	20175	1732.5	16QAM	1	0	20.65	24.44	30	-5.56
				1	5	20.49	24.28	30	-5.72
				3	2	20.80	24.59	30	-5.41
				6	0	19.85	23.64	30	-6.36
20393	1754.3	16QAM	1	0	20.42	24.21	30	-5.79	
			1	5	20.22	24.01	30	-5.99	
			3	2	20.56	24.35	30	-5.65	
			6	0	19.84	23.63	30	-6.37	

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Antenna gain (dBi) 3.79

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	21.78	25.57	30	-4.43
				1	14	21.60	25.39	30	-4.61
				8	4	20.96	24.75	30	-5.25
				15	0	20.92	24.71	30	-5.29
	20175	1732.5	QPSK	1	0	21.57	25.36	30	-4.64
				1	14	22.02	25.81	30	-4.19
				8	4	21.13	24.92	30	-5.08
				15	0	21.07	24.86	30	-5.14
	20385	1753.5	QPSK	1	0	21.59	25.38	30	-4.62
				1	14	21.74	25.53	30	-4.47
				8	4	20.75	24.54	30	-5.46
				15	0	20.73	24.52	30	-5.48
	19965	1711.5	16QAM	1	0	20.99	24.78	30	-5.22
				1	14	20.43	24.22	30	-5.78
				8	4	19.89	23.68	30	-6.32
				15	0	19.15	22.94	30	-7.06
	20175	1732.5	16QAM	1	0	20.51	24.30	30	-5.7
				1	14	19.54	23.33	30	-6.67
				8	4	19.88	23.67	30	-6.33
				15	0	19.73	23.52	30	-6.48
	20385	1753.5	16QAM	1	0	20.28	24.07	30	-5.93
				1	14	20.44	24.23	30	-5.77
				8	4	19.81	23.60	30	-6.4
				15	0	19.63	23.42	30	-6.58

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Antenna gain (dBi) 3.79

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	21.81	25.60	30	-4.4
				1	24	21.97	25.76	30	-4.24
				12	6	20.99	24.78	30	-5.22
				25	0	20.94	24.73	30	-5.27
	20175	1732.5	QPSK	1	0	22.02	25.81	30	-4.19
				1	24	21.09	24.88	30	-5.12
				12	6	21.03	24.82	30	-5.18
				25	0	21.00	24.79	30	-5.21
	20375	1752.5	QPSK	1	0	21.67	25.46	30	-4.54
				1	24	21.92	25.71	30	-4.29
				12	6	20.76	24.55	30	-5.45
				25	0	20.72	24.51	30	-5.49
	19975	1712.5	16QAM	1	0	20.15	23.94	30	-6.06
				1	24	20.73	24.52	30	-5.48
				12	6	19.10	22.89	30	-7.11
				25	0	19.81	23.60	30	-6.4
	20175	1732.5	16QAM	1	0	20.30	24.09	30	-5.91
				1	24	20.91	24.70	30	-5.3
				12	6	19.71	23.50	30	-6.5
				25	0	18.99	22.78	30	-7.22
20375	1752.5	16QAM	1	0	20.53	24.32	30	-5.68	
			1	24	20.32	24.11	30	-5.89	
			12	6	18.84	22.63	30	-7.37	
			25	0	19.69	23.48	30	-6.52	

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Antenna gain (dBi) 3.79

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	21.90	25.69	30	-4.31
				1	49	21.58	25.37	30	-4.63
				25	12	20.97	24.76	30	-5.24
				50	0	20.86	24.65	30	-5.35
	20175	1732.5	QPSK	1	0	21.97	25.76	30	-4.24
				1	49	22.02	25.81	30	-4.19
				25	12	21.03	24.82	30	-5.18
				50	0	20.98	24.77	30	-5.23
	20375	1750	QPSK	1	0	21.94	25.73	30	-4.27
				1	49	22.12	25.91	30	-4.09
				25	12	20.87	24.66	30	-5.34
				50	0	20.83	24.62	30	-5.38
	20000	1715	16QAM	1	0	20.82	24.61	30	-5.39
				1	49	20.76	24.55	30	-5.45
				25	12	19.93	23.72	30	-6.28
				50	0	19.85	23.64	30	-6.36
	20175	1732.5	16QAM	1	0	21.04	24.83	30	-5.17
				1	49	20.60	24.39	30	-5.61
				25	12	19.75	23.54	30	-6.46
				50	0	19.83	23.62	30	-6.38
20375	1750	16QAM	1	0	20.75	24.54	30	-5.46	
			1	49	20.61	24.40	30	-5.6	
			25	12	19.93	23.72	30	-6.28	
			50	0	19.74	23.53	30	-6.47	

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Antenna gain (dBi) 3.79

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	21.96	25.75	30	-4.25
				1	74	21.93	25.72	30	-4.28
				36	18	21.07	24.86	30	-5.14
				75	0	21.01	24.80	30	-5.2
	20175	1732.5	QPSK	1	0	21.97	25.76	30	-4.24
				1	74	21.89	25.68	30	-4.32
				36	18	21.05	24.84	30	-5.16
				75	0	20.94	24.73	30	-5.27
	20325	1747.5	QPSK	1	0	22.21	26.00	30	-4
				1	74	21.97	25.76	30	-4.24
				36	18	20.95	24.74	30	-5.26
				75	0	20.83	24.62	30	-5.38
	20025	1717.5	16QAM	1	0	20.67	24.46	30	-5.54
				1	74	21.01	24.80	30	-5.2
				36	18	20.03	23.82	30	-6.18
				75	0	19.95	23.74	30	-6.26
	20175	1732.5	16QAM	1	0	20.70	24.49	30	-5.51
				1	74	20.89	24.68	30	-5.32
				36	18	19.94	23.73	30	-6.27
				75	0	19.89	23.68	30	-6.32
20325	1747.5	16QAM	1	0	21.13	24.92	30	-5.08	
			1	74	20.37	24.16	30	-5.84	
			36	18	19.89	23.68	30	-6.32	
			75	0	19.87	23.66	30	-6.34	

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Antenna gain (dBi) 3.79

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	21.75	25.54	30	-4.46
				1	99	22.18	25.97	30	-4.03
				50	25	21.14	24.93	30	-5.07
				100	0	20.99	24.78	30	-5.22
	20175	1732.5	QPSK	1	0	21.83	25.62	30	-4.38
				1	99	22.08	25.87	30	-4.13
				50	25	21.04	24.83	30	-5.17
				100	0	20.95	24.74	30	-5.26
	20300	1745	QPSK	1	0	22.33	26.12	30	-3.88
				1	99	21.89	25.68	30	-4.32
				50	25	21.08	24.87	30	-5.13
				100	0	20.99	24.78	30	-5.22
	20050	1720	16QAM	1	0	19.84	23.63	30	-6.37
				1	99	20.78	24.57	30	-5.43
				50	25	20.11	23.90	30	-6.1
				100	0	19.83	23.62	30	-6.38
	20175	1732.5	16QAM	1	0	21.01	24.80	30	-5.2
				1	99	20.92	24.71	30	-5.29
				50	25	19.99	23.78	30	-6.22
				100	0	19.85	23.64	30	-6.36
20300	1745	16QAM	1	0	20.75	24.54	30	-5.46	
			1	99	20.74	24.53	30	-5.47	
			50	25	20.06	23.85	30	-6.15	
			100	0	19.92	23.71	30	-6.29	

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Antenna gain (dBi) 2.75

LTE Band 5 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	21.77	22.37	24.52	38.45	-13.93
				1	5	21.73	22.33	24.48	38.45	-13.97
				3	2	21.90	22.50	24.65	38.45	-13.8
				6	0	20.86	21.46	23.61	38.45	-14.84
	20525	836.5	QPSK	1	0	21.51	22.11	24.26	38.45	-14.19
				1	5	22.06	22.66	24.81	38.45	-13.64
				3	2	21.91	22.51	24.66	38.45	-13.79
				6	0	20.94	21.54	23.69	38.45	-14.76
	20643	848.3	QPSK	1	0	21.92	22.52	24.67	38.45	-13.78
				1	5	22.03	22.63	24.78	38.45	-13.67
				3	2	21.95	22.55	24.70	38.45	-13.75
				6	0	21.02	21.62	23.77	38.45	-14.68
	20407	824.7	16QAM	1	0	19.94	20.54	22.69	38.45	-15.76
				1	5	20.28	20.88	23.03	38.45	-15.42
				3	2	20.80	21.40	23.55	38.45	-14.9
				6	0	19.94	20.54	22.69	38.45	-15.76
	20525	836.5	16QAM	1	0	20.56	21.16	23.31	38.45	-15.14
				1	5	20.24	20.84	22.99	38.45	-15.46
				3	2	20.91	21.51	23.66	38.45	-14.79
				6	0	19.86	20.46	22.61	38.45	-15.84
	20643	848.3	16QAM	1	0	20.46	21.06	23.21	38.45	-15.24
				1	5	20.57	21.17	23.32	38.45	-15.13
				3	2	21.08	21.68	23.83	38.45	-14.62
				6	0	19.96	20.56	22.71	38.45	-15.74

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Antenna gain (dBi) 2.75

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	21.83	22.43	24.58	38.45	-13.87
				1	14	21.92	22.52	24.67	38.45	-13.78
				8	4	20.97	21.57	23.72	38.45	-14.73
				15	0	20.73	21.33	23.48	38.45	-14.97
	20525	836.5	QPSK	1	0	21.79	22.39	24.54	38.45	-13.91
				1	14	21.96	22.56	24.71	38.45	-13.74
				8	4	21.04	21.64	23.79	38.45	-14.66
				15	0	20.86	21.46	23.61	38.45	-14.84
	20635	847.5	QPSK	1	0	21.14	21.74	23.89	38.45	-14.56
				1	14	22.00	22.60	24.75	38.45	-13.7
				8	4	20.98	21.58	23.73	38.45	-14.72
				15	0	20.94	21.54	23.69	38.45	-14.76
	20415	825.5	16QAM	1	0	20.85	21.45	23.60	38.45	-14.85
				1	14	20.37	20.97	23.12	38.45	-15.33
				8	4	19.65	20.25	22.40	38.45	-16.05
				15	0	19.70	20.30	22.45	38.45	-16
	20525	836.5	16QAM	1	0	19.52	20.12	22.27	38.45	-16.18
				1	14	20.28	20.88	23.03	38.45	-15.42
				8	4	19.82	20.42	22.57	38.45	-15.88
				15	0	19.59	20.19	22.34	38.45	-16.11
	20635	847.5	16QAM	1	0	20.28	20.88	23.03	38.45	-15.42
				1	14	20.58	21.18	23.33	38.45	-15.12
				8	4	19.66	20.26	22.41	38.45	-16.04
				15	0	19.74	20.34	22.49	38.45	-15.96

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Antenna gain (dBi) 2.75

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	21.83	22.43	24.58	38.45	-13.87
				1	24	21.78	22.38	24.53	38.45	-13.92
				12	6	20.86	21.46	23.61	38.45	-14.84
				25	0	20.86	21.46	23.61	38.45	-14.84
	20525	836.5	QPSK	1	0	21.68	22.28	24.43	38.45	-14.02
				1	24	21.60	22.20	24.35	38.45	-14.1
				12	6	20.90	21.50	23.65	38.45	-14.8
				25	0	20.84	21.44	23.59	38.45	-14.86
	20625	846.5	QPSK	1	0	21.52	22.12	24.27	38.45	-14.18
				1	24	21.94	22.54	24.69	38.45	-13.76
				12	6	20.91	21.51	23.66	38.45	-14.79
				25	0	20.86	21.46	23.61	38.45	-14.84
	20425	826.5	16QAM	1	0	20.34	20.94	23.09	38.45	-15.36
				1	24	20.68	21.28	23.43	38.45	-15.02
				12	6	19.68	20.28	22.43	38.45	-16.02
				25	0	19.68	20.28	22.43	38.45	-16.02
	20525	836.5	16QAM	1	0	20.27	20.87	23.02	38.45	-15.43
				1	24	20.70	21.30	23.45	38.45	-15
				12	6	19.65	20.25	22.40	38.45	-16.05
				25	0	19.79	20.39	22.54	38.45	-15.91
	20625	846.5	16QAM	1	0	20.53	21.13	23.28	38.45	-15.17
				1	24	20.46	21.06	23.21	38.45	-15.24
				12	6	19.64	20.24	22.39	38.45	-16.06
				25	0	19.64	20.24	22.39	38.45	-16.06

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Antenna gain (dBi) 2.75

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	21.90	22.50	24.65	38.45	-13.8
				1	49	21.83	22.43	24.58	38.45	-13.87
				25	12	20.93	21.53	23.68	38.45	-14.77
				50	0	20.80	21.40	23.55	38.45	-14.9
	20525	836.5	QPSK	1	0	21.58	22.18	24.33	38.45	-14.12
				1	49	21.75	22.35	24.50	38.45	-13.95
				25	12	20.86	21.46	23.61	38.45	-14.84
				50	0	20.82	21.42	23.57	38.45	-14.88
	20600	844	QPSK	1	0	21.73	22.33	24.48	38.45	-13.97
				1	49	21.87	22.47	24.62	38.45	-13.83
				25	12	20.90	21.50	23.65	38.45	-14.8
				50	0	20.79	21.39	23.54	38.45	-14.91
	20450	829	16QAM	1	0	20.80	21.40	23.55	38.45	-14.9
				1	49	20.17	20.77	22.92	38.45	-15.53
				25	12	20.00	20.60	22.75	38.45	-15.7
				50	0	19.84	20.44	22.59	38.45	-15.86
	20525	836.5	16QAM	1	0	20.73	21.33	23.48	38.45	-14.97
				1	49	20.56	21.16	23.31	38.45	-15.14
				25	12	19.98	20.58	22.73	38.45	-15.72
				50	0	19.84	20.44	22.59	38.45	-15.86
	20600	844	16QAM	1	0	20.42	21.02	23.17	38.45	-15.28
				1	49	20.59	21.19	23.34	38.45	-15.11
				25	12	19.74	20.34	22.49	38.45	-15.96
				50	0	19.82	20.42	22.57	38.45	-15.88

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Antenna gain (dBi) 3.22

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	21.86	25.08	33	-7.92
				1	24	22.07	25.29	33	-7.71
				12	6	21.27	24.49	33	-8.51
				25	0	21.19	24.41	33	-8.59
	21100	2535	QPSK	1	0	21.95	25.17	33	-7.83
				1	24	22.14	25.36	33	-7.64
				12	6	21.28	24.50	33	-8.5
				25	0	21.20	24.42	33	-8.58
	21375	2567.5	QPSK	1	0	22.26	25.48	33	-7.52
				1	24	22.32	25.54	33	-7.46
				12	6	21.50	24.72	33	-8.28
				25	0	21.40	24.62	33	-8.38
	20775	2502.5	16QAM	1	0	20.66	23.88	33	-9.12
				1	24	20.46	23.68	33	-9.32
				12	6	19.93	23.15	33	-9.85
				25	0	20.22	23.44	33	-9.56
	21100	2535	16QAM	1	0	21.00	24.22	33	-8.78
				1	24	20.98	24.20	33	-8.8
				12	6	20.35	23.57	33	-9.43
				25	0	20.24	23.46	33	-9.54
21375	2567.5	16QAM	1	0	20.99	24.21	33	-8.79	
			1	24	20.34	23.56	33	-9.44	
			12	6	20.43	23.65	33	-9.35	
			25	0	20.38	23.60	33	-9.4	

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Antenna gain (dBi) 3.22

LTE Band 7 Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	22.14	25.36	33	-7.64
				1	49	22.14	25.36	33	-7.64
				25	12	21.28	24.50	33	-8.5
				50	0	21.11	24.33	33	-8.67
	21100	2535	QPSK	1	0	21.96	25.18	33	-7.82
				1	49	22.23	25.45	33	-7.55
				25	12	21.25	24.47	33	-8.53
				50	0	21.18	24.40	33	-8.6
	21350	2565	QPSK	1	0	22.31	25.53	33	-7.47
				1	49	22.54	25.76	33	-7.24
				25	12	21.50	24.72	33	-8.28
				50	0	21.41	24.63	33	-8.37
	20800	2505	16QAM	1	0	21.05	24.27	33	-8.73
				1	49	20.97	24.19	33	-8.81
				25	12	20.29	23.51	33	-9.49
				50	0	20.11	23.33	33	-9.67
	21100	2535	16QAM	1	0	20.50	23.72	33	-9.28
				1	49	21.15	24.37	33	-8.63
				25	12	20.32	23.54	33	-9.46
				50	0	20.08	23.30	33	-9.7
21350	2565	16QAM	1	0	20.85	24.07	33	-8.93	
			1	49	21.20	24.42	33	-8.58	
			25	12	20.16	23.38	33	-9.62	
			50	0	20.44	23.66	33	-9.34	

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Antenna gain (dBi) 3.22

LTE Band 7 Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	21.38	24.60	33	-8.4
				1	74	21.97	25.19	33	-7.81
				36	18	21.07	24.29	33	-8.71
				75	0	20.95	24.17	33	-8.83
	21100	2535	QPSK	1	0	21.47	24.69	33	-8.31
				1	74	22.02	25.24	33	-7.76
				36	18	21.14	24.36	33	-8.64
				75	0	21.07	24.29	33	-8.71
	21375	2562.5	QPSK	1	0	21.85	25.07	33	-7.93
				1	74	22.29	25.51	33	-7.49
				36	18	21.25	24.47	33	-8.53
				75	0	21.29	24.51	33	-8.49
	20825	2507.5	16QAM	1	0	20.47	23.69	33	-9.31
				1	74	20.56	23.78	33	-9.22
				36	18	20.03	23.25	33	-9.75
				75	0	19.90	23.12	33	-9.88
	21100	2535	16QAM	1	0	20.55	23.77	33	-9.23
				1	74	20.61	23.83	33	-9.17
				36	18	20.09	23.31	33	-9.69
				75	0	20.13	23.35	33	-9.65
21375	2562.5	16QAM	1	0	20.97	24.19	33	-8.81	
			1	74	21.41	24.63	33	-8.37	
			36	18	20.18	23.40	33	-9.6	
			75	0	20.44	23.66	33	-9.34	

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Antenna gain (dBi) 3.22

LTE Band 7 Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	21.53	24.75	33	-8.25
				1	99	21.76	24.98	33	-8.02
				50	25	20.88	24.10	33	-8.9
				100	0	20.61	23.83	33	-9.17
	21100	2535	QPSK	1	0	21.71	24.93	33	-8.07
				1	99	21.70	24.92	33	-8.08
				50	25	20.89	24.11	33	-8.89
				100	0	20.76	23.98	33	-9.02
	21350	2560	QPSK	1	0	21.93	25.15	33	-7.85
				1	99	22.23	25.45	33	-7.55
				50	25	21.02	24.24	33	-8.76
				100	0	20.97	24.19	33	-8.81
	20850	2510	16QAM	1	0	19.96	23.18	33	-9.82
				1	99	20.52	23.74	33	-9.26
				50	25	19.92	23.14	33	-9.86
				100	0	19.64	22.86	33	-10.14
	21100	2535	16QAM	1	0	20.49	23.71	33	-9.29
				1	99	20.43	23.65	33	-9.35
				50	25	20.00	23.22	33	-9.78
				100	0	19.89	23.11	33	-9.89
21350	2560	16QAM	1	0	20.31	23.53	33	-9.47	
			1	99	20.77	23.99	33	-9.01	
			50	25	20.01	23.23	33	-9.77	
			100	0	20.00	23.22	33	-9.78	

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Antenna gain (dBi) 2.38

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	21.82	22.05	24.20	34.77	-10.57
				1	5	21.89	22.12	24.27	34.77	-10.5
				3	2	21.96	22.19	24.34	34.77	-10.43
				6	0	20.83	21.06	23.21	34.77	-11.56
	23095	707.5	QPSK	1	0	22.39	22.62	24.77	34.77	-10
				1	5	22.11	22.34	24.49	34.77	-10.28
				3	2	22.35	22.58	24.73	34.77	-10.04
				6	0	21.24	21.47	23.62	34.77	-11.15
	23173	715.5	QPSK	1	0	21.89	22.12	24.27	34.77	-10.5
				1	5	21.96	22.19	24.34	34.77	-10.43
				3	2	21.95	22.18	24.33	34.77	-10.44
				6	0	20.92	21.15	23.30	34.77	-11.47
	23017	699.7	16QAM	1	0	20.37	20.60	22.75	34.77	-12.02
				1	5	20.46	20.69	22.84	34.77	-11.93
				3	2	20.67	20.90	23.05	34.77	-11.72
				6	0	19.88	20.11	22.26	34.77	-12.51
	23095	707.5	16QAM	1	0	20.67	20.90	23.05	34.77	-11.72
				1	5	19.88	20.11	22.26	34.77	-12.51
				3	2	21.27	21.50	23.65	34.77	-11.12
				6	0	20.15	20.38	22.53	34.77	-12.24
	23173	715.5	16QAM	1	0	20.87	21.10	23.25	34.77	-11.52
				1	5	19.47	19.70	21.85	34.77	-12.92
				3	2	21.03	21.26	23.41	34.77	-11.36
				6	0	20.06	20.29	22.44	34.77	-12.33

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Antenna gain (dBi) 2.38

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	21.90	22.13	24.28	34.77	-10.49
				1	14	22.06	22.29	24.44	34.77	-10.33
				8	4	21.04	21.27	23.42	34.77	-11.35
				15	0	20.99	21.22	23.37	34.77	-11.4
	23095	707.5	QPSK	1	0	21.79	22.02	24.17	34.77	-10.6
				1	14	22.27	22.50	24.65	34.77	-10.12
				8	4	21.32	21.55	23.70	34.77	-11.07
	23165	714.5	QPSK	1	0	22.11	22.34	24.49	34.77	-10.28
				1	14	22.02	22.25	24.40	34.77	-10.37
				8	4	20.99	21.22	23.37	34.77	-11.4
	23025	700.5	16QAM	1	0	20.09	20.32	22.47	34.77	-12.3
				1	14	21.11	21.34	23.49	34.77	-11.28
				8	4	20.12	20.35	22.50	34.77	-12.27
	23095	707.5	16QAM	1	0	19.79	20.02	22.17	34.77	-12.6
				1	14	20.96	21.19	23.34	34.77	-11.43
				1	14	21.46	21.69	23.84	34.77	-10.93
	23165	714.5	16QAM	8	4	20.21	20.44	22.59	34.77	-12.18
				15	0	20.25	20.48	22.63	34.77	-12.14
				1	0	20.95	21.18	23.33	34.77	-11.44
	23025	700.5	16QAM	1	14	21.00	21.23	23.38	34.77	-11.39
				8	4	19.72	19.95	22.10	34.77	-12.67
				15	0	19.80	20.03	22.18	34.77	-12.59

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Antenna gain (dBi) 2.38

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	21.77	22.00	24.15	34.77	-10.62
				1	24	22.18	22.41	24.56	34.77	-10.21
				12	6	21.18	21.41	23.56	34.77	-11.21
				25	0	21.06	21.29	23.44	34.77	-11.33
	23095	707.5	QPSK	1	0	22.15	22.38	24.53	34.77	-10.24
				1	24	22.35	22.58	24.73	34.77	-10.04
				12	6	21.38	21.61	23.76	34.77	-11.01
				25	0	21.25	21.48	23.63	34.77	-11.14
	23155	713.5	QPSK	1	0	21.89	22.12	24.27	34.77	-10.5
				1	24	20.86	21.09	23.24	34.77	-11.53
				12	6	21.11	21.34	23.49	34.77	-11.28
				25	0	20.96	21.19	23.34	34.77	-11.43
	23035	701.5	16QAM	1	0	20.41	20.64	22.79	34.77	-11.98
				1	24	20.89	21.12	23.27	34.77	-11.5
				12	6	19.96	20.19	22.34	34.77	-12.43
				25	0	19.97	20.20	22.35	34.77	-12.42
	23095	707.5	16QAM	1	0	20.58	20.81	22.96	34.77	-11.81
				1	24	20.73	20.96	23.11	34.77	-11.66
				12	6	20.20	20.43	22.58	34.77	-12.19
				25	0	20.23	20.46	22.61	34.77	-12.16
	23155	713.5	16QAM	1	0	20.89	21.12	23.27	34.77	-11.5
				1	24	20.53	20.76	22.91	34.77	-11.86
				12	6	20.10	20.33	22.48	34.77	-12.29
				25	0	19.94	20.17	22.32	34.77	-12.45

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Antenna gain (dBi) 2.38

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	21.91	22.14	24.29	34.77	-10.48
				1	49	22.39	22.62	24.77	34.77	-10
				25	12	21.34	21.57	23.72	34.77	-11.05
				50	0	21.15	21.38	23.53	34.77	-11.24
	23095	707.5	QPSK	1	0	21.33	21.56	23.71	34.77	-11.06
				1	49	22.21	22.44	24.59	34.77	-10.18
				25	12	21.37	21.60	23.75	34.77	-11.02
				50	0	21.28	21.51	23.66	34.77	-11.11
	23130	711	QPSK	1	0	22.44	22.67	24.82	34.77	-9.95
				1	49	22.08	22.31	24.46	34.77	-10.31
				25	12	21.09	21.32	23.47	34.77	-11.3
				50	0	21.20	21.43	23.58	34.77	-11.19
	23060	704	16QAM	1	0	20.48	20.71	22.86	34.77	-11.91
				1	49	21.23	21.46	23.61	34.77	-11.16
				25	12	20.16	20.39	22.54	34.77	-12.23
				50	0	20.16	20.39	22.54	34.77	-12.23
	23095	707.5	16QAM	1	0	20.70	20.93	23.08	34.77	-11.69
				1	49	19.73	19.96	22.11	34.77	-12.66
				25	12	20.32	20.55	22.70	34.77	-12.07
				50	0	20.12	20.35	22.50	34.77	-12.27
	23130	711	16QAM	1	0	20.80	21.03	23.18	34.77	-11.59
				1	49	20.32	20.55	22.70	34.77	-12.07
				25	12	19.94	20.17	22.32	34.77	-12.45
				50	0	20.06	20.29	22.44	34.77	-12.33

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Antenna gain (dBi) 2.38

LTE Band 13 Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	21.95	22.18	24.33	34.77	-10.44
				1	24	22.03	22.26	24.41	34.77	-10.36
				12	6	20.93	21.16	23.31	34.77	-11.46
				25	0	20.85	21.08	23.23	34.77	-11.54
	23230	782	QPSK	1	0	21.88	22.11	24.26	34.77	-10.51
				1	24	21.96	22.19	24.34	34.77	-10.43
				12	6	20.93	21.16	23.31	34.77	-11.46
				25	0	20.83	21.06	23.21	34.77	-11.56
	23255	784.5	QPSK	1	0	21.87	22.10	24.25	34.77	-10.52
				1	24	22.04	22.27	24.42	34.77	-10.35
				12	6	20.85	21.08	23.23	34.77	-11.54
				25	0	20.91	21.14	23.29	34.77	-11.48
	23205	779.5	16QAM	1	0	20.46	20.69	22.84	34.77	-11.93
				1	24	20.73	20.96	23.11	34.77	-11.66
				12	6	19.91	20.14	22.29	34.77	-12.48
				25	0	19.78	20.01	22.16	34.77	-12.61
	23230	782	16QAM	1	0	20.19	20.42	22.57	34.77	-12.2
				1	24	20.62	20.85	23.00	34.77	-11.77
				12	6	19.68	19.91	22.06	34.77	-12.71
				25	0	19.76	19.99	22.14	34.77	-12.63
	23255	784.5	16QAM	1	0	21.06	21.29	23.44	34.77	-11.33
				1	24	19.86	20.09	22.24	34.77	-12.53
				12	6	19.59	19.82	21.97	34.77	-12.8
				25	0	19.82	20.05	22.20	34.77	-12.57

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Antenna gain (dBi) 2.38

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	21.89	22.12	24.27	34.77	-10.5
				1	49	21.88	22.11	24.26	34.77	-10.51
				25	12	20.90	21.13	23.28	34.77	-11.49
				50	0	20.77	21.00	23.15	34.77	-11.62
	23230	782	16QAM	1	0	20.40	20.63	22.78	34.77	-11.99
				1	49	20.32	20.55	22.70	34.77	-12.07
				25	12	19.85	20.08	22.23	34.77	-12.54
				50	0	19.85	20.08	22.23	34.77	-12.54

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Antenna gain (dBi) 3.63

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26055	1851.5	QPSK	1	0	22.21	25.84	33	-7.16
				1	14	22.19	25.82	33	-7.18
				8	4	21.36	24.99	33	-8.01
				15	0	21.32	24.95	33	-8.05
	26365	1882.5	QPSK	1	0	22.59	26.22	33	-6.78
				1	14	22.53	26.16	33	-6.84
				8	4	21.57	25.20	33	-7.8
				15	0	21.61	25.24	33	-7.76
	26675	1913.5	QPSK	1	0	22.51	26.14	33	-6.86
				1	14	20.85	24.48	33	-8.52
				8	4	21.46	25.09	33	-7.91
				15	0	21.40	25.03	33	-7.97
	26055	1851.5	16QAM	1	0	20.92	24.55	33	-8.45
				1	14	20.91	24.54	33	-8.46
				8	4	20.57	24.20	33	-8.8
				15	0	20.46	24.09	33	-8.91
	26365	1882.5	16QAM	1	0	21.48	25.11	33	-7.89
				1	14	21.31	24.94	33	-8.06
				8	4	20.37	24.00	33	-9
				15	0	20.57	24.20	33	-8.8
	26675	1913.5	16QAM	1	0	21.23	24.86	33	-8.14
				1	14	20.33	23.96	33	-9.04
				8	4	20.57	24.20	33	-8.8
				15	0	20.06	23.69	33	-9.31

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Antenna gain (dBi) 3.63

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	22.52	26.15	33	-6.85
				1	24	22.41	26.04	33	-6.96
				12	6	21.52	25.15	33	-7.85
				25	0	21.41	25.04	33	-7.96
	26365	1882.5	QPSK	1	0	22.66	26.29	33	-6.71
				1	24	22.55	26.18	33	-6.82
				12	6	21.72	25.35	33	-7.65
				25	0	21.70	25.33	33	-7.67
	26665	1912.5	QPSK	1	0	22.51	26.14	33	-6.86
				1	24	19.62	23.25	33	-9.75
				12	6	21.58	25.21	33	-7.79
				25	0	21.53	25.16	33	-7.84
	26065	1852.5	16QAM	1	0	21.45	25.08	33	-7.92
				1	24	21.34	24.97	33	-8.03
				12	6	20.45	24.08	33	-8.92
				25	0	20.58	24.21	33	-8.79
	26365	1882.5	16QAM	1	0	21.31	24.94	33	-8.06
				1	24	21.35	24.98	33	-8.02
				12	6	20.53	24.16	33	-8.84
				25	0	20.51	24.14	33	-8.86
26665	1912.5	16QAM	1	0	21.00	24.63	33	-8.37	
			1	24	19.72	23.35	33	-9.65	
			12	6	20.63	24.26	33	-8.74	
			25	0	20.53	24.16	33	-8.84	

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Antenna gain (dBi) 3.63

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	22.59	26.22	33	-6.78
				1	49	22.49	26.12	33	-6.88
				25	12	21.43	25.06	33	-7.94
				50	0	21.39	25.02	33	-7.98
	26365	1882.5	QPSK	1	0	22.58	26.21	33	-6.79
				1	49	22.73	26.36	33	-6.64
				25	12	21.81	25.44	33	-7.56
				50	0	21.38	25.01	33	-7.99
	26640	1910	QPSK	1	0	22.46	26.09	33	-6.91
				1	49	17.90	21.53	33	-11.47
				25	12	21.55	25.18	33	-7.82
				50	0	21.47	25.10	33	-7.9
	26090	1855	16QAM	1	0	21.51	25.14	33	-7.86
				1	49	21.12	24.75	33	-8.25
				25	12	20.36	23.99	33	-9.01
				50	0	20.50	24.13	33	-8.87
	26365	1882.5	16QAM	1	0	21.30	24.93	33	-8.07
				1	49	21.37	25.00	33	-8
				25	12	20.74	24.37	33	-8.63
				50	0	20.55	24.18	33	-8.82
26640	1910	16QAM	1	0	21.44	25.07	33	-7.93	
			1	49	19.57	23.20	33	-9.8	
			25	12	20.55	24.18	33	-8.82	
			50	0	20.43	24.06	33	-8.94	

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Antenna gain (dBi) 3.63

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	22.63	26.26	33	-6.74
				1	74	22.27	25.90	33	-7.1
				36	18	21.45	25.08	33	-7.92
				75	0	21.20	24.83	33	-8.17
	26365	1882.5	QPSK	1	0	22.00	25.63	33	-7.37
				1	74	22.61	26.24	33	-6.76
				36	18	21.68	25.31	33	-7.69
				75	0	21.71	25.34	33	-7.66
	26615	1907.5	QPSK	1	0	21.79	25.42	33	-7.58
				1	74	20.28	23.91	33	-9.09
				36	18	21.58	25.21	33	-7.79
				75	0	21.48	25.11	33	-7.89
	26115	1857.5	16QAM	1	0	21.41	25.04	33	-7.96
				1	74	21.48	25.11	33	-7.89
				36	18	20.34	23.97	33	-9.03
				75	0	20.12	23.75	33	-9.25
	26365	1882.5	16QAM	1	0	21.44	25.07	33	-7.93
				1	74	21.18	24.81	33	-8.19
				36	18	20.49	24.12	33	-8.88
				75	0	20.54	24.17	33	-8.83
	26615	1907.5	16QAM	1	0	21.22	24.85	33	-8.15
				1	74	18.56	22.19	33	-10.81
				36	18	20.49	24.12	33	-8.88
				75	0	20.42	24.05	33	-8.95

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Antenna gain (dBi) 3.63

LTE Band 25 Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	22.61	26.24	33	-6.76
				1	99	21.68	25.31	33	-7.69
				50	25	21.60	25.23	33	-7.77
				100	0	21.50	25.13	33	-7.87
	26365	1882.5	QPSK	1	0	21.61	25.24	33	-7.76
				1	99	22.58	26.21	33	-6.79
				50	25	21.71	25.34	33	-7.66
				100	0	21.70	25.33	33	-7.67
	26590	1905	QPSK	1	0	22.42	26.05	33	-6.95
				1	99	20.31	23.94	33	-9.06
				50	25	21.50	25.13	33	-7.87
				100	0	21.46	25.09	33	-7.91
	26140	1860	16QAM	1	0	21.03	24.66	33	-8.34
				1	99	20.85	24.48	33	-8.52
				50	25	20.48	24.11	33	-8.89
				100	0	20.31	23.94	33	-9.06
	26365	1882.5	16QAM	1	0	20.84	24.47	33	-8.53
				1	99	20.79	24.42	33	-8.58
				50	25	20.72	24.35	33	-8.65
				100	0	20.55	24.18	33	-8.82
26590	1905	16QAM	1	0	20.39	24.02	33	-8.98	
			1	99	19.61	23.24	33	-9.76	
			50	25	20.45	24.08	33	-8.92	
			100	0	20.47	24.10	33	-8.9	

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Antenna gain (dBi) 2.75

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	22.25	22.85	25.00	38.45	-13.45
				1	5	22.39	22.99	25.14	38.45	-13.31
				3	2	22.39	22.99	25.14	38.45	-13.31
				6	0	21.32	21.92	24.07	38.45	-14.38
	26915	836.5	QPSK	1	0	22.37	22.97	25.12	38.45	-13.33
				1	5	22.43	23.03	25.18	38.45	-13.27
				3	2	22.30	22.90	25.05	38.45	-13.4
				6	0	21.24	21.84	23.99	38.45	-14.46
	27033	848.3	QPSK	1	0	21.82	22.42	24.57	38.45	-13.88
				1	5	22.01	22.61	24.76	38.45	-13.69
				3	2	22.05	22.65	24.80	38.45	-13.65
				6	0	20.96	21.56	23.71	38.45	-14.74
	26797	824.7	16QAM	1	0	20.91	21.51	23.66	38.45	-14.79
				1	5	20.99	21.59	23.74	38.45	-14.71
				3	2	21.37	21.97	24.12	38.45	-14.33
				6	0	20.41	21.01	23.16	38.45	-15.29
	26915	836.5	16QAM	1	0	20.65	21.25	23.40	38.45	-15.05
				1	5	20.60	21.20	23.35	38.45	-15.1
				3	2	21.11	21.71	23.86	38.45	-14.59
				6	0	20.17	20.77	22.92	38.45	-15.53
	27033	848.3	16QAM	1	0	20.90	21.50	23.65	38.45	-14.8
				1	5	20.41	21.01	23.16	38.45	-15.29
				3	2	21.04	21.64	23.79	38.45	-14.66
				6	0	20.18	20.78	22.93	38.45	-15.52

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Antenna gain (dBi) 2.75

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	22.28	22.88	25.03	38.45	-13.42
				1	14	22.29	22.89	25.04	38.45	-13.41
				8	4	21.47	22.07	24.22	38.45	-14.23
				15	0	21.39	21.99	24.14	38.45	-14.31
	26915	836.5	QPSK	1	0	22.05	22.65	24.80	38.45	-13.65
				1	14	22.25	22.85	25.00	38.45	-13.45
				8	4	21.27	21.87	24.02	38.45	-14.43
				15	0	21.08	21.68	23.83	38.45	-14.62
	27025	847.5	QPSK	1	0	21.77	22.37	24.52	38.45	-13.93
				1	14	22.00	22.60	24.75	38.45	-13.7
				8	4	21.10	21.70	23.85	38.45	-14.6
				15	0	21.05	21.65	23.80	38.45	-14.65
	26805	825.5	16QAM	1	0	20.73	21.33	23.48	38.45	-14.97
				1	14	21.21	21.81	23.96	38.45	-14.49
				8	4	20.51	21.11	23.26	38.45	-15.19
				15	0	20.35	20.95	23.10	38.45	-15.35
	26915	836.5	16QAM	1	0	21.14	21.74	23.89	38.45	-14.56
				1	14	20.94	21.54	23.69	38.45	-14.76
				8	4	19.86	20.46	22.61	38.45	-15.84
				15	0	20.30	20.90	23.05	38.45	-15.4
	27025	847.5	16QAM	1	0	20.83	21.43	23.58	38.45	-14.87
				1	14	21.04	21.64	23.79	38.45	-14.66
				8	4	20.15	20.75	22.90	38.45	-15.55
				15	0	20.11	20.71	22.86	38.45	-15.59

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Antenna gain (dBi) 2.75

LTE Band 26 Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	22.42	23.02	25.17	38.45	-13.28
				1	24	22.23	22.83	24.98	38.45	-13.47
				12	6	21.40	22.00	24.15	38.45	-14.3
				25	0	21.43	22.03	24.18	38.45	-14.27
	26915	836.5	QPSK	1	0	22.16	22.76	24.91	38.45	-13.54
				1	24	22.18	22.78	24.93	38.45	-13.52
				12	6	21.12	21.72	23.87	38.45	-14.58
				25	0	21.13	21.73	23.88	38.45	-14.57
	27015	846.5	QPSK	1	0	22.07	22.67	24.82	38.45	-13.63
				1	24	21.88	22.48	24.63	38.45	-13.82
				12	6	21.12	21.72	23.87	38.45	-14.58
				25	0	21.12	21.72	23.87	38.45	-14.58
	26815	826.5	16QAM	1	0	20.82	21.42	23.57	38.45	-14.88
				1	24	20.85	21.45	23.60	38.45	-14.85
				12	6	20.23	20.83	22.98	38.45	-15.47
				25	0	20.38	20.98	23.13	38.45	-15.32
	26915	836.5	16QAM	1	0	20.59	21.19	23.34	38.45	-15.11
				1	24	20.48	21.08	23.23	38.45	-15.22
				12	6	19.99	20.59	22.74	38.45	-15.71
				25	0	20.06	20.66	22.81	38.45	-15.64
27015	846.5	16QAM	1	0	20.56	21.16	23.31	38.45	-15.14	
			1	24	20.33	20.93	23.08	38.45	-15.37	
			12	6	20.09	20.69	22.84	38.45	-15.61	
			25	0	19.96	20.56	22.71	38.45	-15.74	

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Antenna gain (dBi) 2.75

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	22.46	23.06	25.21	38.45	-13.24
				1	49	22.22	22.82	24.97	38.45	-13.48
				25	12	21.34	21.94	24.09	38.45	-14.36
				50	0	21.30	21.90	24.05	38.45	-14.4
	26915	836.5	QPSK	1	0	22.27	22.87	25.02	38.45	-13.43
				1	49	22.18	22.78	24.93	38.45	-13.52
				25	12	21.17	21.77	23.92	38.45	-14.53
				50	0	21.13	21.73	23.88	38.45	-14.57
	26990	844	QPSK	1	0	22.10	22.70	24.85	38.45	-13.6
				1	49	22.12	22.72	24.87	38.45	-13.58
				25	12	21.15	21.75	23.90	38.45	-14.55
				50	0	21.09	21.69	23.84	38.45	-14.61
	26840	829	16QAM	1	0	21.04	21.64	23.79	38.45	-14.66
				1	49	20.98	21.58	23.73	38.45	-14.72
				25	12	20.27	20.87	23.02	38.45	-15.43
				50	0	20.14	20.74	22.89	38.45	-15.56
	26915	836.5	16QAM	1	0	20.89	21.49	23.64	38.45	-14.81
				1	49	21.06	21.66	23.81	38.45	-14.64
				25	12	20.10	20.70	22.85	38.45	-15.6
				50	0	20.02	20.62	22.77	38.45	-15.68
	26990	844	16QAM	1	0	20.98	21.58	23.73	38.45	-14.72
				1	49	20.95	21.55	23.70	38.45	-14.75
				25	12	20.03	20.63	22.78	38.45	-15.67
				50	0	20.04	20.64	22.79	38.45	-15.66

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Antenna gain (dBi) 2.75

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	22.42	23.02	25.17	38.45	-13.28
				1	74	22.30	22.90	25.05	38.45	-13.4
				36	18	21.35	21.95	24.10	38.45	-14.35
				75	0	21.20	21.80	23.95	38.45	-14.5
	26915	836.5	QPSK	1	0	22.05	22.65	24.80	38.45	-13.65
				1	74	22.03	22.63	24.78	38.45	-13.67
				36	18	21.26	21.86	24.01	38.45	-14.44
				75	0	21.15	21.75	23.90	38.45	-14.55
	26965	841.5	QPSK	1	0	22.23	22.83	24.98	38.45	-13.47
				1	74	22.15	22.75	24.90	38.45	-13.55
				36	18	21.13	21.73	23.88	38.45	-14.57
				75	0	21.07	21.67	23.82	38.45	-14.63
	26865	831.5	16QAM	1	0	21.22	21.82	23.97	38.45	-14.48
				1	74	20.86	21.46	23.61	38.45	-14.84
				36	18	20.23	20.83	22.98	38.45	-15.47
				75	0	20.14	20.74	22.89	38.45	-15.56
	26915	836.5	16QAM	1	0	20.84	21.44	23.59	38.45	-14.86
				1	74	20.79	21.39	23.54	38.45	-14.91
				36	18	20.15	20.75	22.90	38.45	-15.55
				75	0	20.07	20.67	22.82	38.45	-15.63
	26965	841.5	16QAM	1	0	20.57	21.17	23.32	38.45	-15.13
				1	74	20.68	21.28	23.43	38.45	-15.02
				36	18	20.08	20.68	22.83	38.45	-15.62
				75	0	20.11	20.71	22.86	38.45	-15.59

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Antenna gain (dBi) 2.75

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	21.89	22.49	24.64	50	-25.36
				1	5	21.97	22.57	24.72	50	-25.28
				3	2	22.17	22.77	24.92	50	-25.08
				6	0	21.04	21.64	23.79	50	-26.21
	26740	819	QPSK	1	0	22.16	22.76	24.91	50	-25.09
				1	5	22.34	22.94	25.09	50	-24.91
				3	2	22.31	22.91	25.06	50	-24.94
				6	0	21.34	21.94	24.09	50	-25.91
	26783	823.3	QPSK	1	0	21.47	22.07	24.22	50	-25.78
				1	5	22.23	22.83	24.98	50	-25.02
				3	2	22.34	22.94	25.09	50	-24.91
				6	0	21.36	21.96	24.11	50	-25.89
	26697	814.7	16QAM	1	0	20.35	20.95	23.10	50	-26.9
				1	5	20.30	20.90	23.05	50	-26.95
				3	2	21.04	21.64	23.79	50	-26.21
				6	0	20.02	20.62	22.77	50	-27.23
	26740	819	16QAM	1	0	20.16	20.76	22.91	50	-27.09
				1	5	21.03	21.63	23.78	50	-26.22
				3	2	21.03	21.63	23.78	50	-26.22
				6	0	19.96	20.56	22.71	50	-27.29
	26783	823.3	16QAM	1	0	20.33	20.93	23.08	50	-26.92
				1	5	20.88	21.48	23.63	50	-26.37
				3	2	21.13	21.73	23.88	50	-26.12
				6	0	20.19	20.79	22.94	50	-27.06

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Antenna gain (dBi) 2.75

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	21.99	22.59	24.74	50	-25.26
				1	14	22.33	22.93	25.08	50	-24.92
				8	4	21.37	21.97	24.12	50	-25.88
				15	0	21.38	21.98	24.13	50	-25.87
	26740	819	QPSK	1	0	22.12	22.72	24.87	50	-25.13
				1	14	22.40	23.00	25.15	50	-24.85
				8	4	21.44	22.04	24.19	50	-25.81
				15	0	21.41	22.01	24.16	50	-25.84
	26775	822.5	QPSK	1	0	22.37	22.97	25.12	50	-24.88
				1	14	22.39	22.99	25.14	50	-24.86
				8	4	21.34	21.94	24.09	50	-25.91
				15	0	21.27	21.87	24.02	50	-25.98
	26705	815.5	16QAM	1	0	20.58	21.18	23.33	50	-26.67
				1	14	20.90	21.50	23.65	50	-26.35
				8	4	20.18	20.78	22.93	50	-27.07
				15	0	20.28	20.88	23.03	50	-26.97
	26740	819	16QAM	1	0	20.89	21.49	23.64	50	-26.36
				1	14	21.12	21.72	23.87	50	-26.13
				8	4	20.19	20.79	22.94	50	-27.06
				15	0	20.30	20.90	23.05	50	-26.95
	26775	822.5	16QAM	1	0	21.28	21.88	24.03	50	-25.97
				1	14	21.17	21.77	23.92	50	-26.08
				8	4	20.14	20.74	22.89	50	-27.11
				15	0	20.11	20.71	22.86	50	-27.14

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Antenna gain (dBi) 2.75

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	21.78	22.38	24.53	50	-25.47
				1	24	22.11	22.71	24.86	50	-25.14
				12	6	21.42	22.02	24.17	50	-25.83
				25	0	21.28	21.88	24.03	50	-25.97
	26740	819	QPSK	1	0	22.09	22.69	24.84	50	-25.16
				1	24	22.22	22.82	24.97	50	-25.03
				12	6	21.42	22.02	24.17	50	-25.83
				25	0	21.36	21.96	24.11	50	-25.89
	26765	821.5	QPSK	1	0	22.13	22.73	24.88	50	-25.12
				1	24	22.39	22.99	25.14	50	-24.86
				12	6	21.36	21.96	24.11	50	-25.89
				25	0	21.31	21.91	24.06	50	-25.94
	26715	816.5	16QAM	1	0	20.71	21.31	23.46	50	-26.54
				1	24	21.11	21.71	23.86	50	-26.14
				12	6	20.17	20.77	22.92	50	-27.08
				25	0	20.33	20.93	23.08	50	-26.92
	26740	819	16QAM	1	0	21.22	21.82	23.97	50	-26.03
				1	24	20.90	21.50	23.65	50	-26.35
				12	6	20.46	21.06	23.21	50	-26.79
				25	0	20.42	21.02	23.17	50	-26.83
26765	821.5	16QAM	1	0	20.99	21.59	23.74	50	-26.26	
			1	24	20.61	21.21	23.36	50	-26.64	
			12	6	20.33	20.93	23.08	50	-26.92	
			25	0	20.21	20.81	22.96	50	-27.04	

Antenna gain (dBi) 2.75

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	21.86	22.46	24.61	50	-25.39
				1	49	22.36	22.96	25.11	50	-24.89
				25	12	21.35	21.95	24.10	50	-25.9
				50	0	21.31	21.91	24.06	50	-25.94
	26740	819	16QAM	1	0	20.36	20.96	23.11	50	-26.89
				1	49	20.76	21.36	23.51	50	-26.49
				25	12	20.16	20.76	22.91	50	-27.09
				50	0	20.17	20.77	22.92	50	-27.08

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Antenna gain (dBi) 3.22

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	22.63	25.85	33	-7.15
				1	24	22.52	25.74	33	-7.26
				12	6	21.73	24.95	33	-8.05
				25	0	21.68	24.90	33	-8.1
	38000	2595	QPSK	1	0	22.86	26.08	33	-6.92
				1	24	22.84	26.06	33	-6.94
				12	6	21.91	25.13	33	-7.87
				25	0	21.84	25.06	33	-7.94
	38225	2617.5	QPSK	1	0	22.99	26.21	33	-6.79
				1	24	22.94	26.16	33	-6.84
				12	6	22.05	25.27	33	-7.73
				25	0	21.99	25.21	33	-7.79
	37775	2572.5	16QAM	1	0	21.22	24.44	33	-8.56
				1	24	21.19	24.41	33	-8.59
				12	6	20.28	23.50	33	-9.5
				25	0	20.85	24.07	33	-8.93
	38000	2595	16QAM	1	0	21.26	24.48	33	-8.52
				1	24	21.37	24.59	33	-8.41
				12	6	20.47	23.69	33	-9.31
				25	0	20.38	23.60	33	-9.4
38225	2617.5	16QAM	1	0	21.46	24.68	33	-8.32	
			1	24	21.25	24.47	33	-8.53	
			12	6	20.51	23.73	33	-9.27	
			25	0	20.43	23.65	33	-9.35	

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Antenna gain (dBi) 3.22

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	22.62	25.84	33	-7.16
				1	49	22.39	25.61	33	-7.39
				25	12	21.77	24.99	33	-8.01
				50	0	21.61	24.83	33	-8.17
	38000	2595	QPSK	1	0	22.86	26.08	33	-6.92
				1	49	23.03	26.25	33	-6.75
				25	12	21.90	25.12	33	-7.88
				50	0	21.83	25.05	33	-7.95
	38200	2615	QPSK	1	0	22.93	26.15	33	-6.85
				1	49	22.97	26.19	33	-6.81
				25	12	22.08	25.30	33	-7.7
				50	0	21.92	25.14	33	-7.86
	37800	2575	16QAM	1	0	21.32	24.54	33	-8.46
				1	49	21.11	24.33	33	-8.67
				25	12	20.73	23.95	33	-9.05
				50	0	20.71	23.93	33	-9.07
	38000	2595	16QAM	1	0	21.35	24.57	33	-8.43
				1	49	21.55	24.77	33	-8.23
				25	12	21.16	24.38	33	-8.62
				50	0	20.75	23.97	33	-9.03
38200	2615	16QAM	1	0	21.79	25.01	33	-7.99	
			1	49	21.48	24.70	33	-8.3	
			25	12	21.26	24.48	33	-8.52	
			50	0	20.94	24.16	33	-8.84	

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Antenna gain (dBi) 3.22

LTE Band 38 Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	22.65	25.87	33	-7.13
				1	74	22.49	25.71	33	-7.29
				36	19	21.57	24.79	33	-8.21
				75	0	21.53	24.75	33	-8.25
	38000	2595	QPSK	1	0	22.65	25.87	33	-7.13
				1	74	23.11	26.33	33	-6.67
				36	19	21.87	25.09	33	-7.91
				75	0	21.90	25.12	33	-7.88
	38175	2612.5	QPSK	1	0	22.99	26.21	33	-6.79
				1	74	23.09	26.31	33	-6.69
				36	19	22.12	25.34	33	-7.66
				75	0	21.98	25.20	33	-7.8
	37825	2577.5	16QAM	1	0	21.23	24.45	33	-8.55
				1	74	21.11	24.33	33	-8.67
				36	19	20.50	23.72	33	-9.28
				75	0	20.60	23.82	33	-9.18
	38000	2595	16QAM	1	0	21.34	24.56	33	-8.44
				1	74	21.50	24.72	33	-8.28
				36	19	20.77	23.99	33	-9.01
				75	0	20.89	24.11	33	-8.89
38175	2612.5	16QAM	1	0	21.75	24.97	33	-8.03	
			1	74	21.56	24.78	33	-8.22	
			36	19	20.94	24.16	33	-8.84	
			75	0	20.95	24.17	33	-8.83	

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Antenna gain (dBi) 3.22

LTE Band 38 Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	22.45	25.67	33	-7.33
				1	99	22.59	25.81	33	-7.19
				50	25	21.61	24.83	33	-8.17
				100	0	21.51	24.73	33	-8.27
	38000	2595	QPSK	1	0	22.64	25.86	33	-7.14
				1	99	22.92	26.14	33	-6.86
				50	25	21.87	25.09	33	-7.91
				100	0	21.95	25.17	33	-7.83
	38150	2610	QPSK	1	0	23.01	26.23	33	-6.77
				1	99	22.94	26.16	33	-6.84
				50	25	22.07	25.29	33	-7.71
				100	0	21.99	25.21	33	-7.79
	37850	2580	16QAM	1	0	20.82	24.04	33	-8.96
				1	99	20.66	23.88	33	-9.12
				50	25	20.69	23.91	33	-9.09
				100	0	20.49	23.71	33	-9.29
	38000	2595	16QAM	1	0	21.16	24.38	33	-8.62
				1	99	21.46	24.68	33	-8.32
				50	25	20.82	24.04	33	-8.96
				100	0	20.82	24.04	33	-8.96
38150	2610	16QAM	1	0	21.61	24.83	33	-8.17	
			1	99	21.38	24.60	33	-8.4	
			50	25	21.05	24.27	33	-8.73	
			100	0	20.85	24.07	33	-8.93	

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Antenna gain (dBi) 3.22

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	22.45	25.67	33	-7.33
				1	24	22.42	25.64	33	-7.36
				12	6	21.52	24.74	33	-8.26
				25	0	21.44	24.66	33	-8.34
	40620	2593	QPSK	1	0	22.83	26.05	33	-6.95
				1	24	22.89	26.11	33	-6.89
				12	6	21.84	25.06	33	-7.94
				25	0	21.77	24.99	33	-8.01
	41565	2687.5	QPSK	1	0	22.68	25.90	33	-7.1
				1	24	22.49	25.71	33	-7.29
				12	6	21.76	24.98	33	-8.02
				25	0	21.69	24.91	33	-8.09
	39675	2498.5	16QAM	1	0	21.13	24.35	33	-8.65
				1	24	21.10	24.32	33	-8.68
				12	6	20.60	23.82	33	-9.18
				25	0	20.52	23.74	33	-9.26
	40620	2593	16QAM	1	0	21.19	24.41	33	-8.59
				1	24	21.26	24.48	33	-8.52
				12	6	20.26	23.48	33	-9.52
				25	0	20.85	24.07	33	-8.93
41565	2687.5	16QAM	1	0	20.89	24.11	33	-8.89	
			1	24	21.26	24.48	33	-8.52	
			12	6	20.70	23.92	33	-9.08	
			25	0	20.86	24.08	33	-8.92	

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Antenna gain (dBi) 3.22

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.37	25.59	33	-7.41
				1	49	22.66	25.88	33	-7.12
				25	12	21.64	24.86	33	-8.14
				50	0	21.42	24.64	33	-8.36
	40620	2593	QPSK	1	0	22.64	25.86	33	-7.14
				1	49	22.80	26.02	33	-6.98
				25	12	21.89	25.11	33	-7.89
				50	0	21.75	24.97	33	-8.03
	41540	2685	QPSK	1	0	22.89	26.11	33	-6.89
				1	49	22.76	25.98	33	-7.02
				25	12	21.87	25.09	33	-7.91
				50	0	21.74	24.96	33	-8.04
	39700	2501	16QAM	1	0	21.06	24.28	33	-8.72
				1	49	21.35	24.57	33	-8.43
				25	12	20.71	23.93	33	-9.07
				50	0	20.19	23.41	33	-9.59
	40620	2593	16QAM	1	0	21.38	24.60	33	-8.4
				1	49	21.57	24.79	33	-8.21
				25	12	20.79	24.01	33	-8.99
				50	0	20.77	23.99	33	-9.01
	41540	2685	16QAM	1	0	21.54	24.76	33	-8.24
				1	49	21.32	24.54	33	-8.46
				25	12	20.99	24.21	33	-8.79
				50	0	20.78	24.00	33	-9

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Antenna gain (dBi) 3.22

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	22.36	25.58	33	-7.42
				1	74	22.57	25.79	33	-7.21
				36	18	21.53	24.75	33	-8.25
				75	0	21.50	24.72	33	-8.28
	40620	2593	QPSK	1	0	22.57	25.79	33	-7.21
				1	74	22.86	26.08	33	-6.92
				36	18	21.90	25.12	33	-7.88
				75	0	21.74	24.96	33	-8.04
	41515	2682.5	QPSK	1	0	23.02	26.24	33	-6.76
				1	74	22.73	25.95	33	-7.05
				36	18	21.87	25.09	33	-7.91
				75	0	21.73	24.95	33	-8.05
	39725	2503.5	16QAM	1	0	20.84	24.06	33	-8.94
				1	74	21.25	24.47	33	-8.53
				36	18	20.55	23.77	33	-9.23
				75	0	20.57	23.79	33	-9.21
	40620	2593	16QAM	1	0	21.32	24.54	33	-8.46
				1	74	21.43	24.65	33	-8.35
				36	18	20.94	24.16	33	-8.84
				75	0	20.84	24.06	33	-8.94
41515	2682.5	16QAM	1	0	21.60	24.82	33	-8.18	
			1	74	21.23	24.45	33	-8.55	
			36	18	20.86	24.08	33	-8.92	
			75	0	20.75	23.97	33	-9.03	

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	22.20	25.42	33	-7.58
				1	99	22.66	25.88	33	-7.12
				50	25	21.70	24.92	33	-8.08
				100	0	21.52	24.74	33	-8.26
	40620	2593	QPSK	1	0	22.62	25.84	33	-7.16
				1	99	22.86	26.08	33	-6.92
				50	25	21.86	25.08	33	-7.92
				100	0	21.75	24.97	33	-8.03
	41490	2680	QPSK	1	0	23.05	26.27	33	-6.73
				1	99	22.71	25.93	33	-7.07
				50	25	21.91	25.13	33	-7.87
				100	0	21.82	25.04	33	-7.96
	39750	2506	16QAM	1	0	20.97	24.19	33	-8.81
				1	99	21.20	24.42	33	-8.58
				50	25	20.58	23.80	33	-9.2
				100	0	20.59	23.81	33	-9.19
	40620	2593	16QAM	1	0	21.19	24.41	33	-8.59
				1	99	21.32	24.54	33	-8.46
				50	25	20.96	24.18	33	-8.82
				100	0	20.74	23.96	33	-9.04
41490	2680	16QAM	1	0	21.41	24.63	33	-8.37	
			1	99	20.99	24.21	33	-8.79	
			50	25	21.04	24.26	33	-8.74	
			100	0	20.84	24.06	33	-8.94	

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7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

7.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

RSS-130 §4.7, RSS-132 §5.5, RSS-139 §6.5, RSS-130 §6.6,

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$

FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53 (f) for LTE B13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g) for LTE B12, 13, 71, 85

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

RSS-130 §4.7.1 for LTE B12, 13, 71, 85

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

RSS-130 §4.7.2 for LTE B13

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

$76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and

$65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

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FCC §27.53(h)(3) for LTE B4, 10, 23, 66, 70

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RSS-139 §6.6 for LTE B4, 10, 66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

RSS-199 §4.5 for LTE B4, 10, 66

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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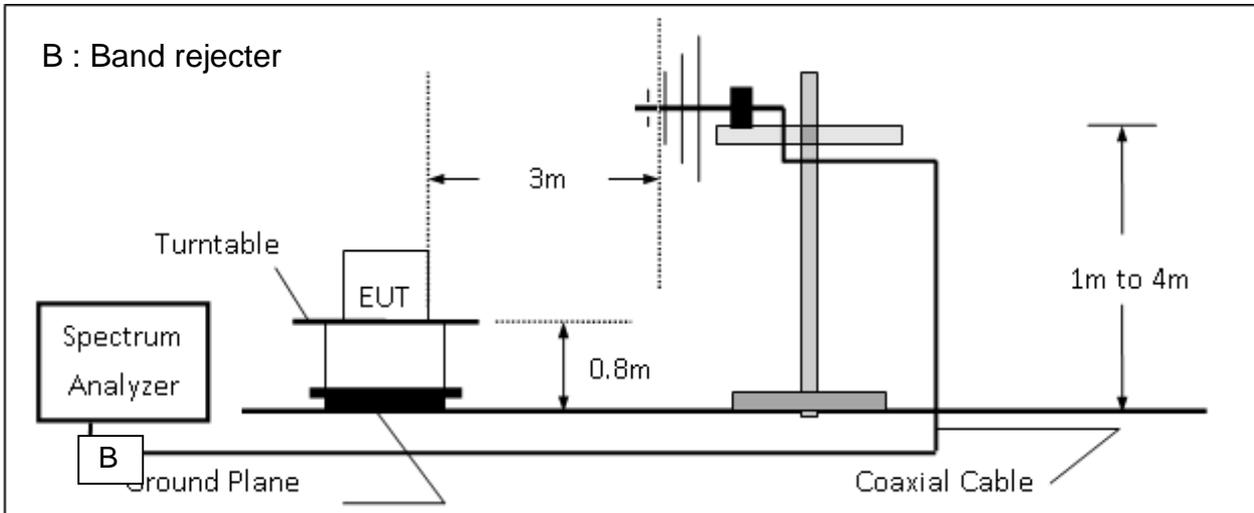
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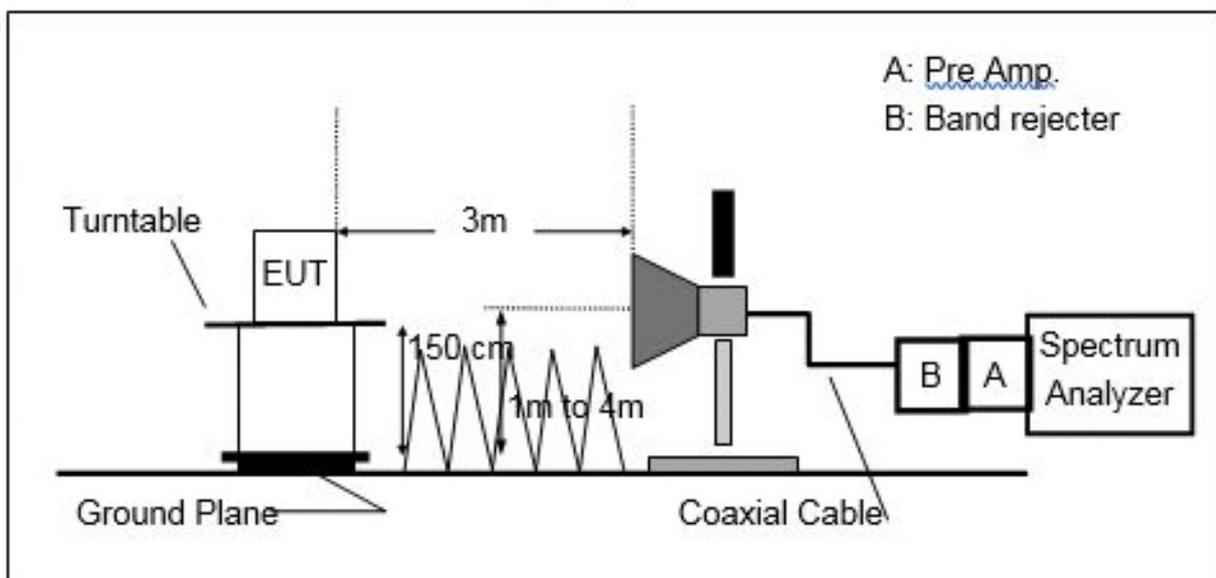
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7.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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7.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
Radio Communication Analyer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/01/2019	03/31/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104	808760/4	01/02/2020	01/01/2021

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Bi-log Antenna	SCHWAZBECK	VULB9168	443	01/13/2020	01/12/2021
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/24/2019	04/23/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2020	01/01/2021
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021

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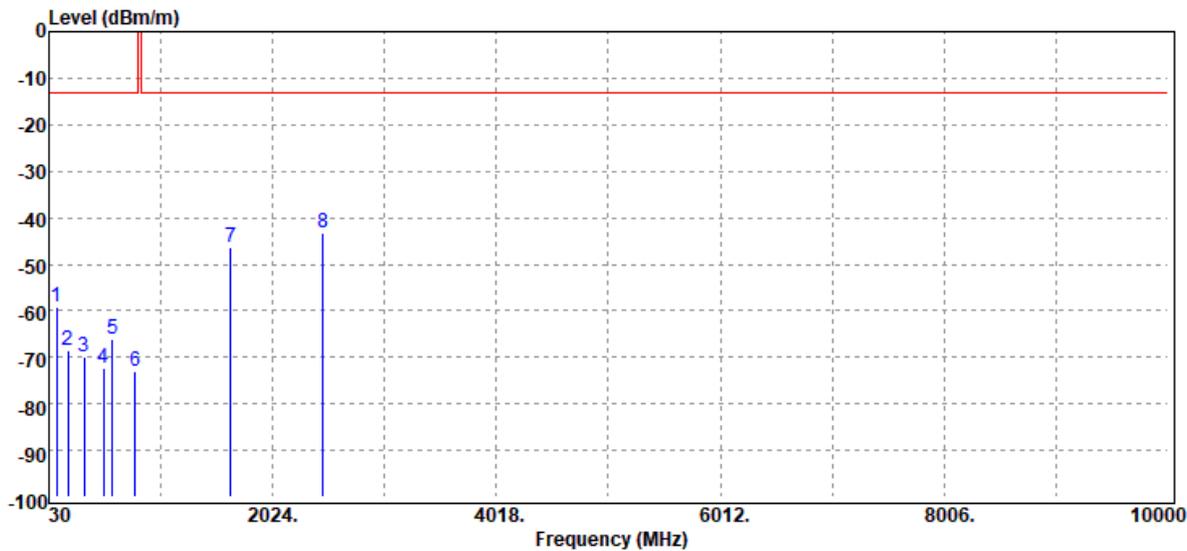
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7.5 Measurement Result:

Report Number :ER/2019/C0117
Operation Mode :GSM 850
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :824.2 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.17	-52.53	-5.69	-0.95	-13.00	-46.17
197.81	-68.58	-64.86	-2.34	-1.38	-13.00	-55.58
343.31	-70.00	-66.52	-1.59	-1.89	-13.00	-57.00
516.94	-72.31	-68.28	-1.45	-2.58	-13.00	-59.31
594.54	-65.99	-62.14	-1.75	-2.10	-13.00	-52.99
799.21	-72.94	-68.21	-1.59	-3.14	-13.00	-59.94
1648.40	-46.40	-51.69	9.30	-4.01	-13.00	-33.40
2472.60	-43.33	-48.81	10.39	-4.91	-13.00	-30.33

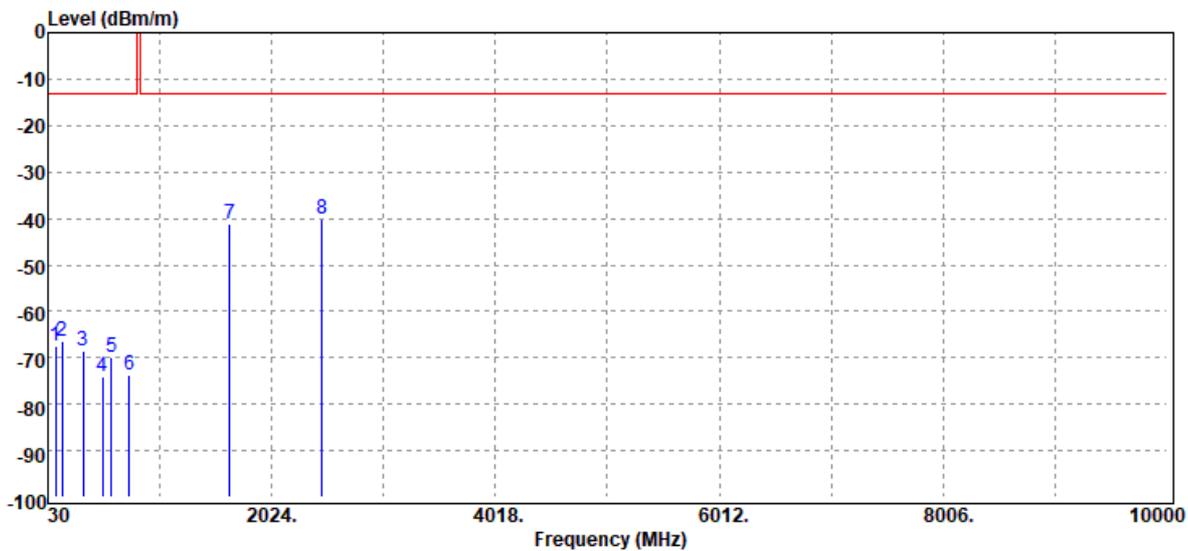
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Report Number :ER/2019/C0117
Operation Mode :GSM 850
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :824.2 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.59	-60.95	-5.69	-0.95	-13.00	-54.59
156.10	-66.60	-58.03	-7.26	-1.31	-13.00	-53.60
343.31	-68.57	-65.09	-1.59	-1.89	-13.00	-55.57
516.94	-74.01	-69.98	-1.45	-2.58	-13.00	-61.01
594.54	-69.92	-66.07	-1.75	-2.10	-13.00	-56.92
757.50	-73.75	-69.35	-1.80	-2.60	-13.00	-60.75
1648.40	-41.04	-46.33	9.30	-4.01	-13.00	-28.04
2472.60	-40.28	-45.76	10.39	-4.91	-13.00	-27.28

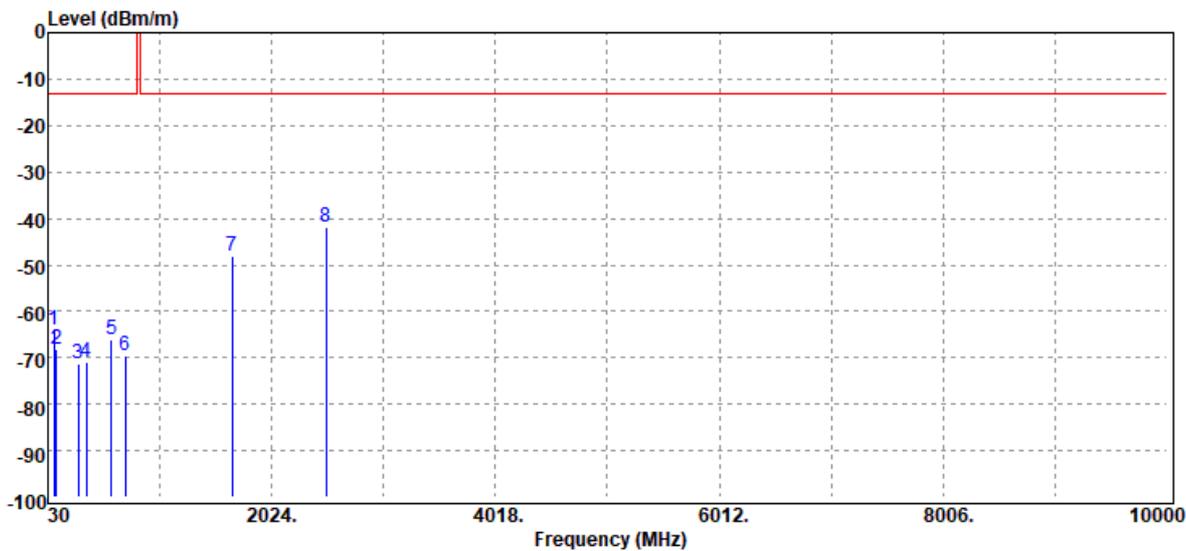
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Report Number :ER/2019/C0117
Operation Mode :GSM 850
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.6 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-64.16	-56.50	-6.77	-0.89	-13.00	-51.16
103.72	-68.10	-60.54	-6.57	-0.99	-13.00	-55.10
299.66	-71.44	-68.05	-1.70	-1.69	-13.00	-58.44
372.41	-70.95	-67.42	-1.62	-1.91	-13.00	-57.95
594.54	-66.13	-62.28	-1.75	-2.10	-13.00	-53.13
721.61	-69.59	-65.83	-1.37	-2.39	-13.00	-56.59
1673.20	-47.93	-53.39	9.49	-4.03	-13.00	-34.93
2509.80	-42.02	-47.62	10.54	-4.94	-13.00	-29.02

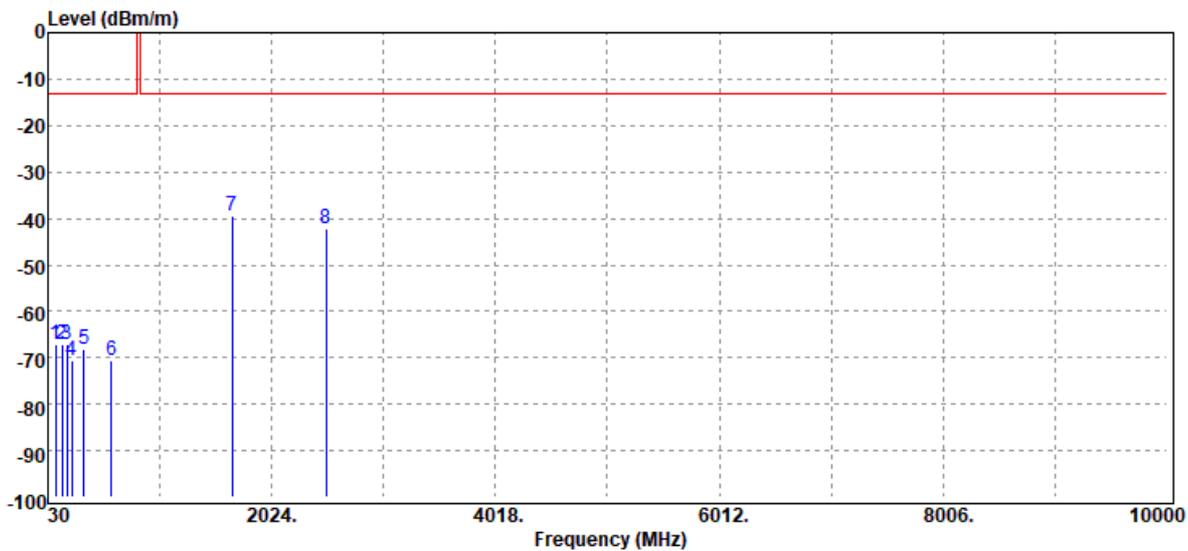
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Report Number :ER/2019/C0117
 Operation Mode :GSM 850
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :836.6 MHz

Test Date :2020-01-31
 Temp./Humi. :18.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.20	-60.56	-5.69	-0.95	-13.00	-54.20
156.10	-67.18	-58.61	-7.26	-1.31	-13.00	-54.18
197.81	-67.29	-63.57	-2.34	-1.38	-13.00	-54.29
240.49	-70.75	-67.59	-1.73	-1.43	-13.00	-57.75
350.10	-68.18	-64.82	-1.46	-1.90	-13.00	-55.18
594.54	-70.64	-66.79	-1.75	-2.10	-13.00	-57.64
1673.20	-39.35	-44.81	9.49	-4.03	-13.00	-26.35
2509.80	-42.06	-47.66	10.54	-4.94	-13.00	-29.06

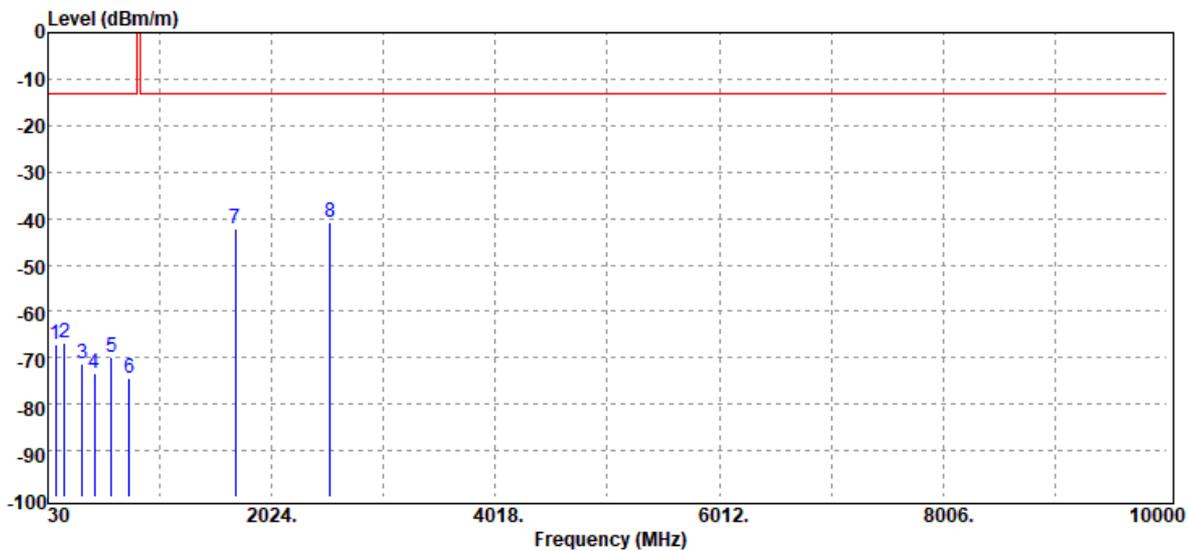
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Report Number :ER/2019/C0117
Operation Mode :GSM 850
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :848.8 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.12	-60.48	-5.69	-0.95	-13.00	-54.12
180.35	-66.78	-61.38	-4.15	-1.25	-13.00	-53.78
333.61	-71.18	-67.59	-1.68	-1.91	-13.00	-58.18
445.16	-73.38	-69.79	-1.67	-1.92	-13.00	-60.38
594.54	-70.07	-66.22	-1.75	-2.10	-13.00	-57.07
757.50	-74.27	-69.87	-1.80	-2.60	-13.00	-61.27
1697.60	-42.24	-47.87	9.68	-4.05	-13.00	-29.24
2546.40	-40.93	-46.64	10.69	-4.98	-13.00	-27.93

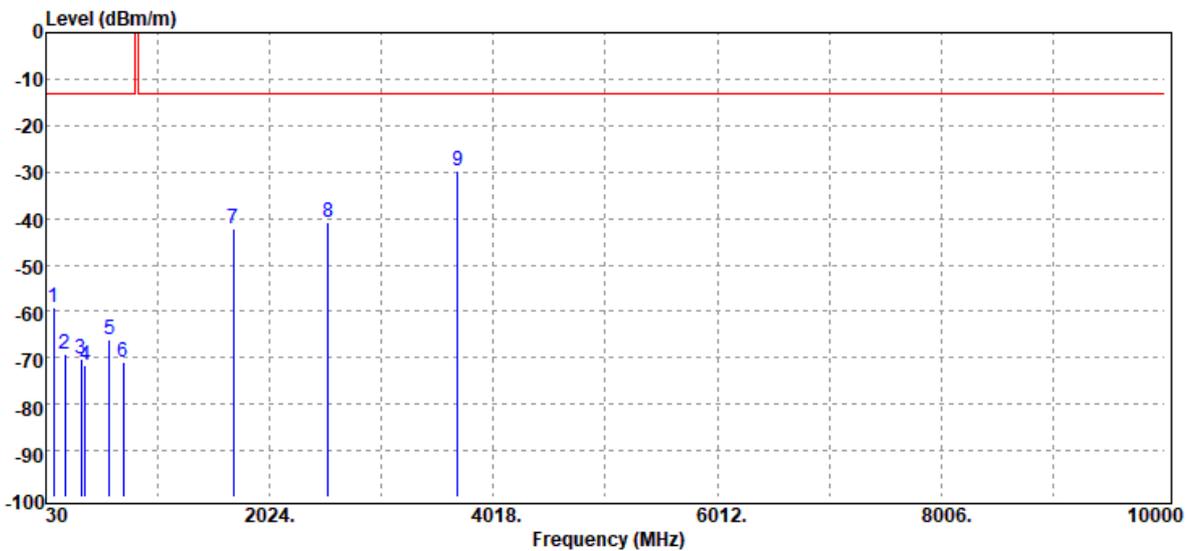
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Report Number :ER/2019/C0117
Operation Mode :GSM 850
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :848.8 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.08	-52.44	-5.69	-0.95	-13.00	-46.08
197.81	-69.29	-65.57	-2.34	-1.38	-13.00	-56.29
343.31	-70.21	-66.73	-1.59	-1.89	-13.00	-57.21
379.20	-71.66	-68.10	-1.64	-1.92	-13.00	-58.66
594.54	-65.96	-62.11	-1.75	-2.10	-13.00	-52.96
721.61	-71.05	-67.29	-1.37	-2.39	-13.00	-58.05
1697.60	-42.24	-47.87	9.68	-4.05	-13.00	-29.24
2546.40	-40.93	-46.64	10.69	-4.98	-13.00	-27.93
3700.40	-29.88	-36.35	12.40	-5.93	-13.00	-16.88

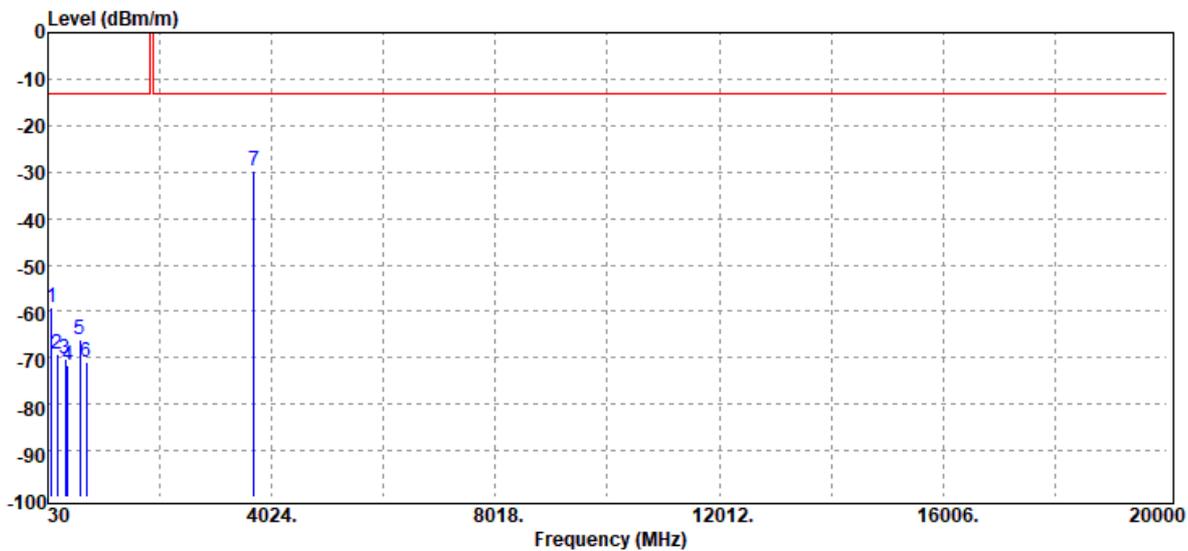
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Report Number :ER/2019/C0117
Operation Mode :GSM 1900
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1850.2 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.08	-52.44	-5.69	-0.95	-13.00	-46.08
197.81	-69.29	-65.57	-2.34	-1.38	-13.00	-56.29
343.31	-70.21	-66.73	-1.59	-1.89	-13.00	-57.21
379.20	-71.66	-68.10	-1.64	-1.92	-13.00	-58.66
594.54	-65.96	-62.11	-1.75	-2.10	-13.00	-52.96
721.61	-71.05	-67.29	-1.37	-2.39	-13.00	-58.05
3700.40	-29.88	-36.35	12.40	-5.93	-13.00	-16.88

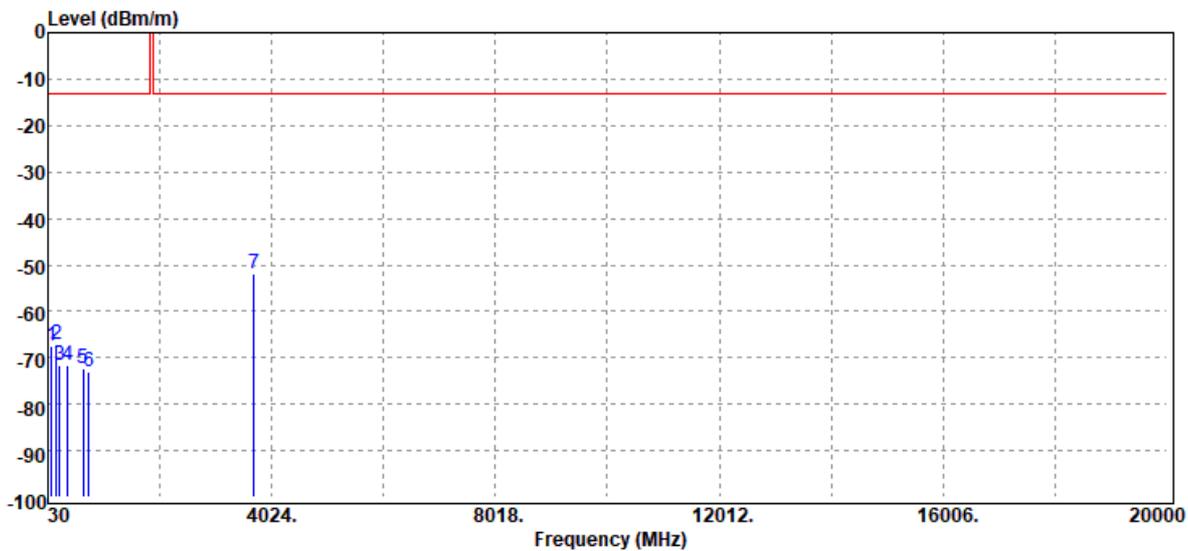
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Report Number :ER/2019/C0117
Operation Mode :GSM 1900
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1850.2 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.37	-60.73	-5.69	-0.95	-13.00	-54.37
180.35	-67.10	-61.70	-4.15	-1.25	-13.00	-54.10
240.49	-71.48	-68.32	-1.73	-1.43	-13.00	-58.48
385.99	-71.73	-68.14	-1.63	-1.96	-13.00	-58.73
662.44	-72.17	-67.65	-1.37	-3.15	-13.00	-59.17
757.50	-72.90	-68.50	-1.80	-2.60	-13.00	-59.90
3700.40	-51.78	-58.25	12.40	-5.93	-13.00	-38.78

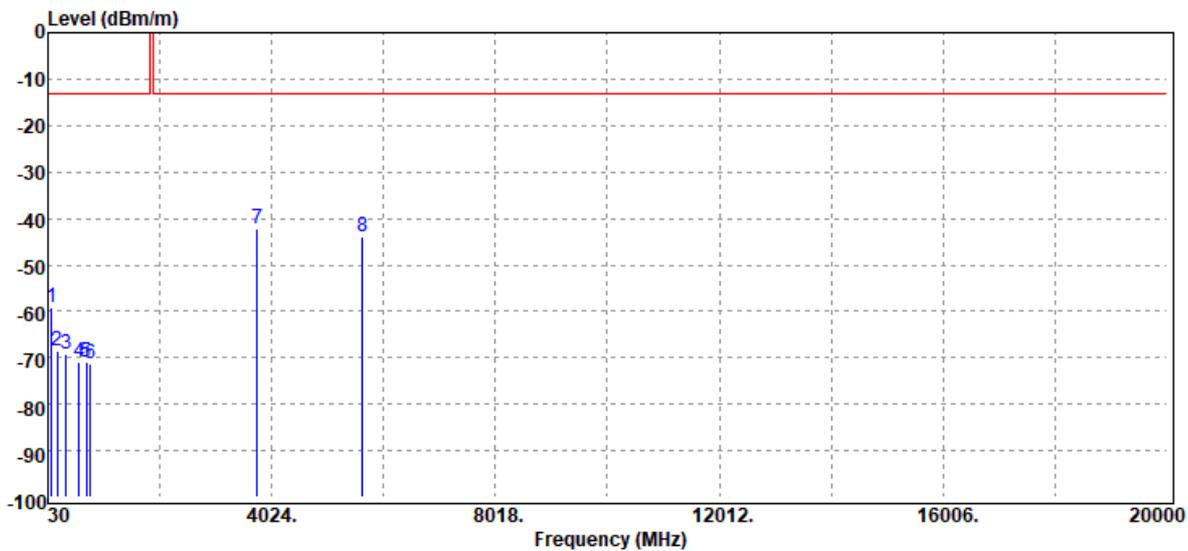
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Report Number :ER/2019/C0117
Operation Mode :GSM 1900
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1880 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.26	-52.62	-5.69	-0.95	-13.00	-46.26
197.81	-68.65	-64.93	-2.34	-1.38	-13.00	-55.65
350.10	-69.25	-65.89	-1.46	-1.90	-13.00	-56.25
589.69	-71.07	-67.42	-1.71	-1.94	-13.00	-58.07
721.61	-70.86	-67.10	-1.37	-2.39	-13.00	-57.86
781.75	-71.20	-66.79	-1.68	-2.73	-13.00	-58.20
3760.00	-42.38	-48.66	12.30	-6.02	-13.00	-29.38
5640.00	-43.87	-49.65	13.26	-7.48	-13.00	-30.87

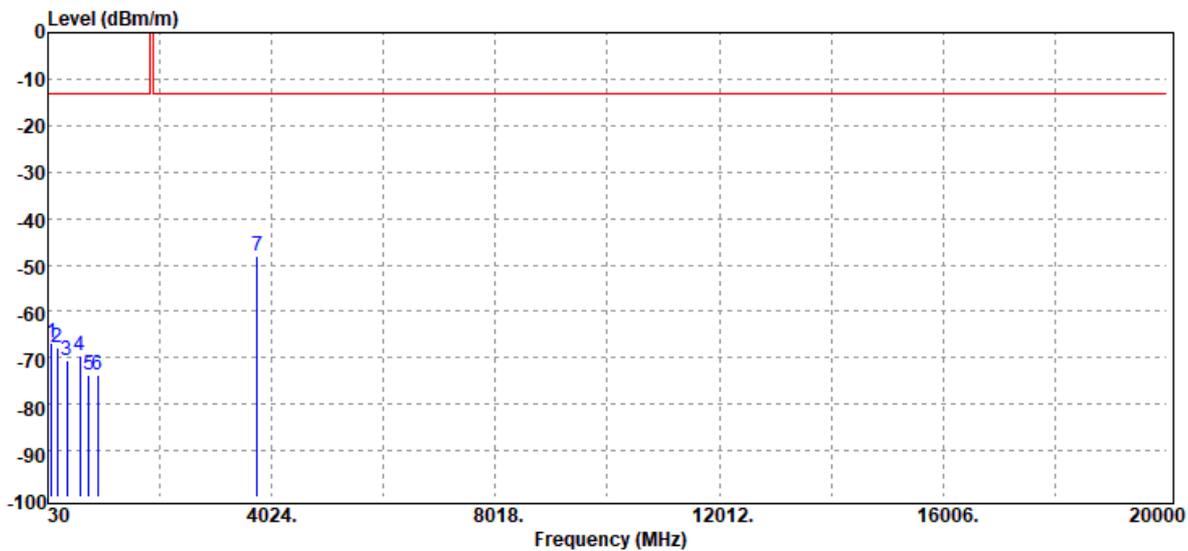
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Report Number :ER/2019/C0117
Operation Mode :GSM 1900
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1880 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.61	-59.97	-5.69	-0.95	-13.00	-53.61
197.81	-67.87	-64.15	-2.34	-1.38	-13.00	-54.87
367.56	-70.44	-66.95	-1.58	-1.91	-13.00	-57.44
594.54	-69.44	-65.59	-1.75	-2.10	-13.00	-56.44
757.50	-73.65	-69.25	-1.80	-2.60	-13.00	-60.65
917.55	-73.78	-69.05	-1.89	-2.84	-13.00	-60.78
3760.00	-48.15	-54.43	12.30	-6.02	-13.00	-35.15

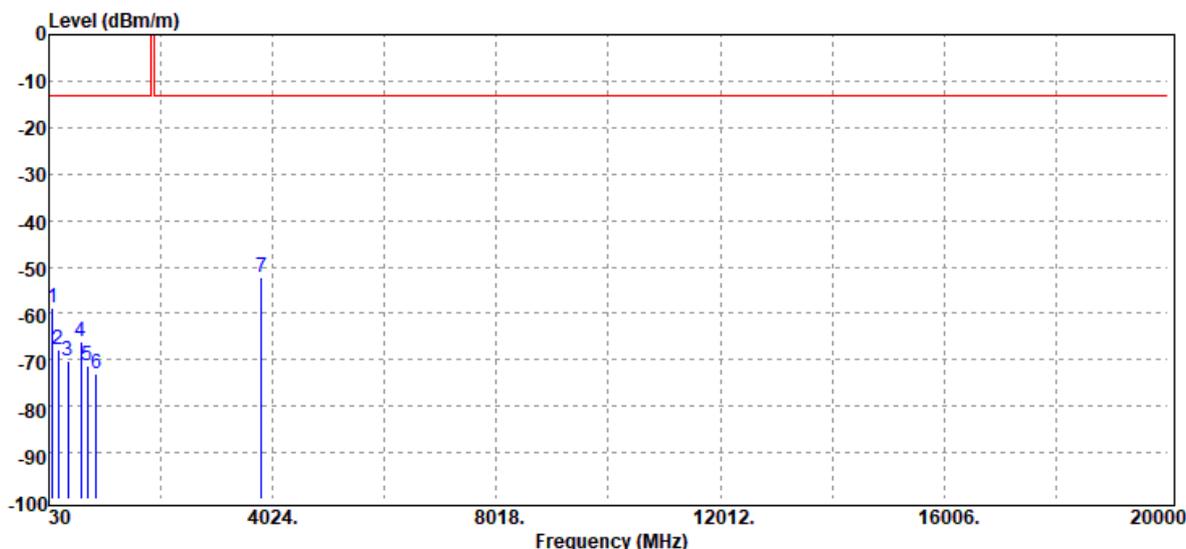
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Report Number :ER/2019/C0117
Operation Mode :GSM 1900
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1909.8 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.96	-52.32	-5.69	-0.95	-13.00	-45.96
197.81	-67.83	-64.11	-2.34	-1.38	-13.00	-54.83
372.41	-70.09	-66.56	-1.62	-1.91	-13.00	-57.09
594.54	-66.21	-62.36	-1.75	-2.10	-13.00	-53.21
721.61	-71.14	-67.38	-1.37	-2.39	-13.00	-58.14
871.96	-72.86	-68.68	-1.67	-2.51	-13.00	-59.86
3819.60	-52.27	-58.42	12.26	-6.11	-13.00	-39.27

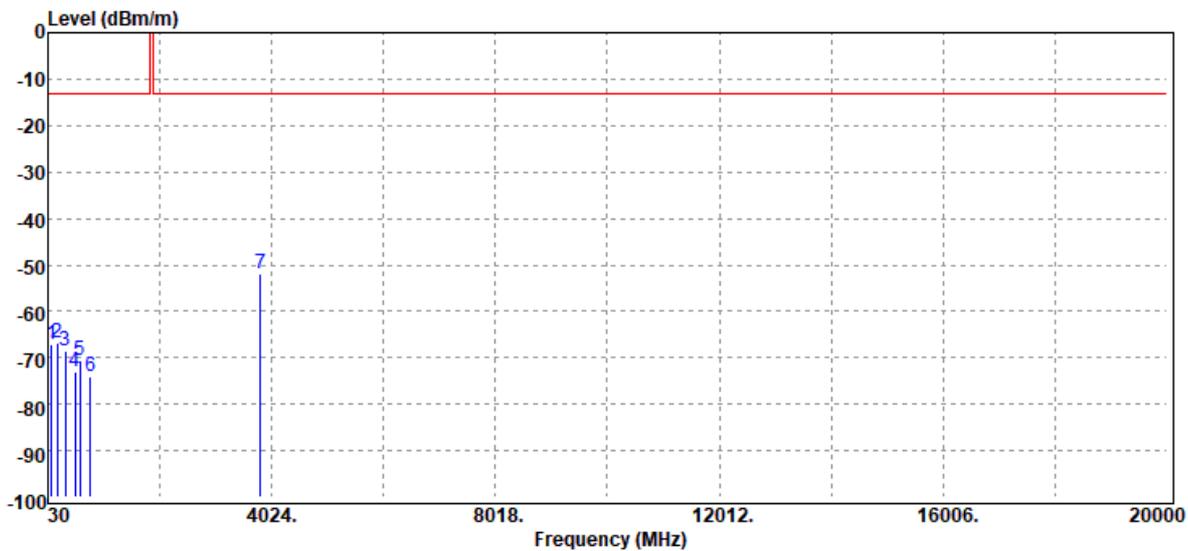
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Report Number :ER/2019/C0117
Operation Mode :GSM 1900
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1909.8 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.16	-60.52	-5.69	-0.95	-13.00	-54.16
197.81	-66.81	-63.09	-2.34	-1.38	-13.00	-53.81
337.49	-68.50	-64.98	-1.63	-1.89	-13.00	-55.50
516.94	-72.86	-68.83	-1.45	-2.58	-13.00	-59.86
594.54	-70.44	-66.59	-1.75	-2.10	-13.00	-57.44
794.36	-74.07	-69.37	-1.64	-3.06	-13.00	-61.07
3819.60	-51.86	-58.01	12.26	-6.11	-13.00	-38.86

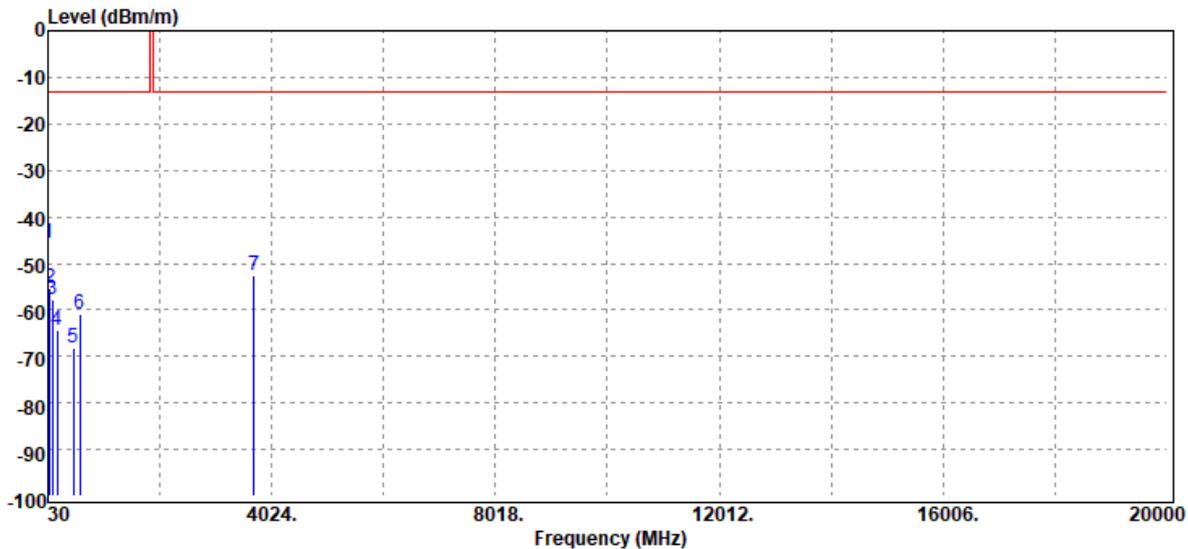
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B2
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1852.4 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.54	-29.93	-14.62	-0.99	-13.00	-32.54
71.71	-55.33	-47.47	-6.72	-1.14	-13.00	-42.33
105.66	-57.69	-54.86	-1.57	-1.26	-13.00	-44.69
197.81	-64.41	-65.52	2.79	-1.68	-13.00	-51.41
479.11	-68.18	-69.67	3.81	-2.32	-13.00	-55.18
594.54	-60.74	-61.15	3.26	-2.85	-13.00	-47.74
3704.80	-52.77	-58.09	12.59	-7.27	-13.00	-39.77

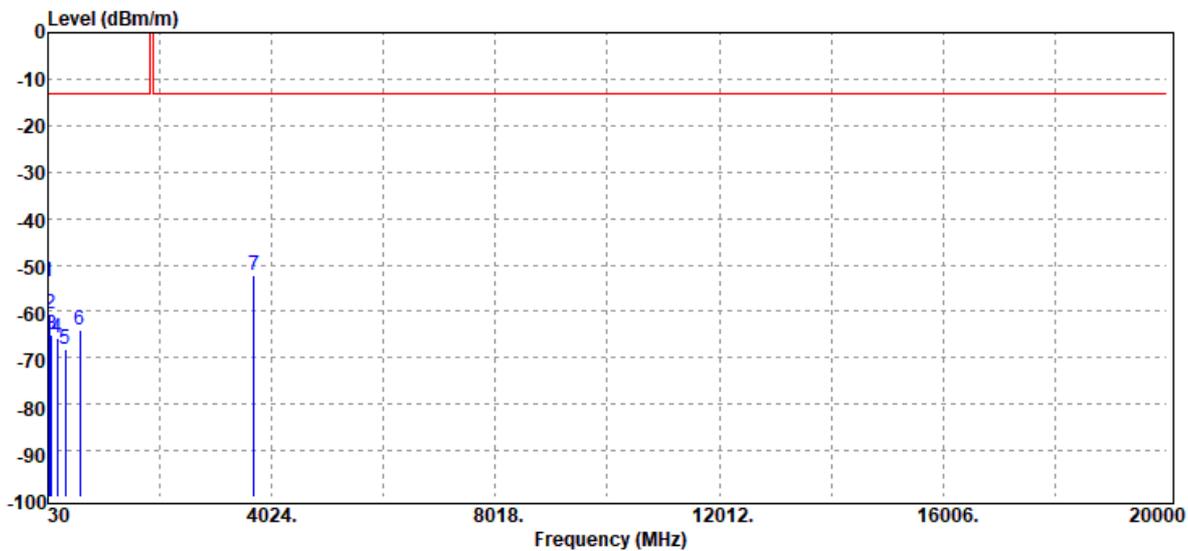
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B2
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Channel :1852.4 MHz

Test Date :2020-01-22
 Temp./Humi. :23.7/56
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.63	-38.02	-14.62	-0.99	-13.00	-40.63
71.71	-60.67	-52.81	-6.72	-1.14	-13.00	-47.67
95.96	-65.04	-62.83	-0.98	-1.23	-13.00	-52.04
197.81	-65.60	-66.71	2.79	-1.68	-13.00	-52.60
342.34	-68.22	-69.88	3.71	-2.05	-13.00	-55.22
594.54	-64.15	-64.56	3.26	-2.85	-13.00	-51.15
3704.80	-52.22	-57.54	12.59	-7.27	-13.00	-39.22

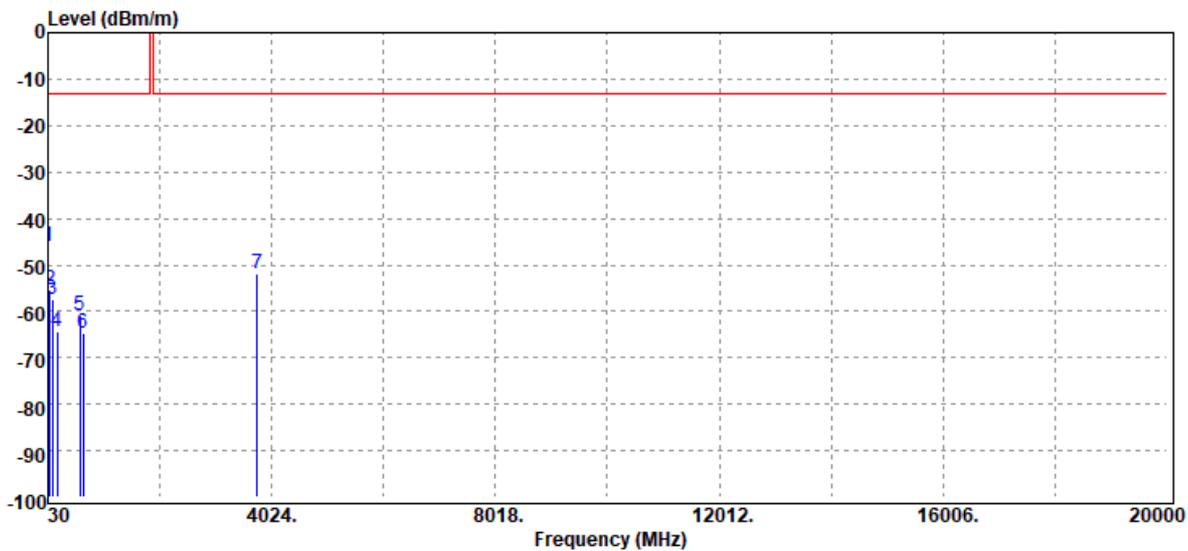
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B2
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1880 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.89	-30.28	-14.62	-0.99	-13.00	-32.89
71.71	-55.25	-47.39	-6.72	-1.14	-13.00	-42.25
105.66	-57.59	-54.76	-1.57	-1.26	-13.00	-44.59
197.81	-64.38	-65.49	2.79	-1.68	-13.00	-51.38
594.54	-60.89	-61.30	3.26	-2.85	-13.00	-47.89
652.74	-64.66	-65.64	3.74	-2.76	-13.00	-51.66
3760.00	-51.78	-56.99	12.61	-7.40	-13.00	-38.78

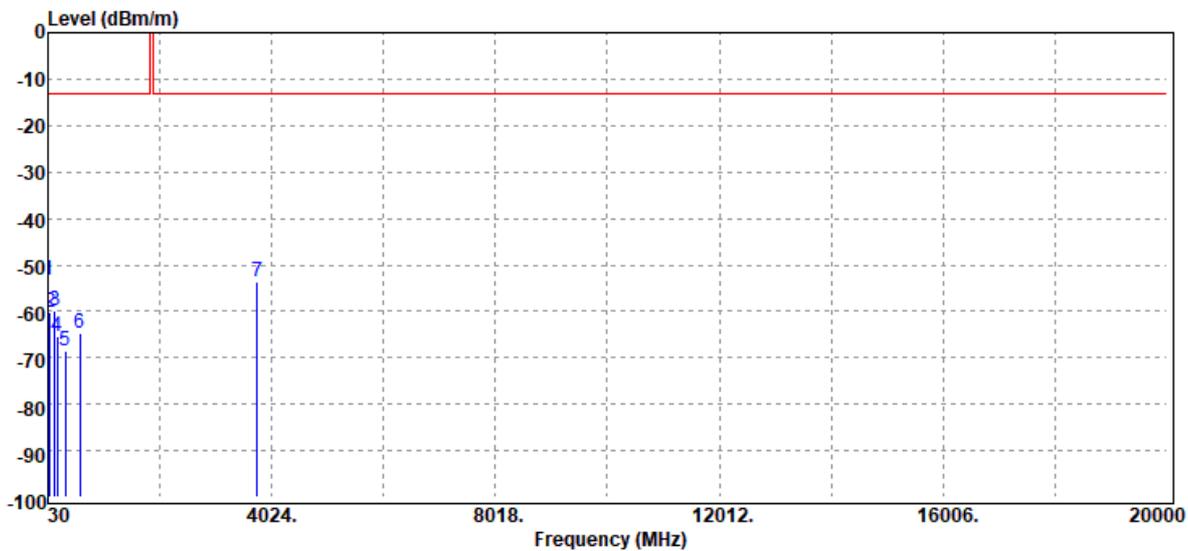
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B2
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1880 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.32	-37.71	-14.62	-0.99	-13.00	-40.32
71.71	-60.16	-52.30	-6.72	-1.14	-13.00	-47.16
146.40	-59.99	-56.26	-2.25	-1.48	-13.00	-46.99
197.81	-65.43	-66.54	2.79	-1.68	-13.00	-52.43
342.34	-68.39	-70.05	3.71	-2.05	-13.00	-55.39
594.54	-64.77	-65.18	3.26	-2.85	-13.00	-51.77
3760.00	-53.54	-58.75	12.61	-7.40	-13.00	-40.54

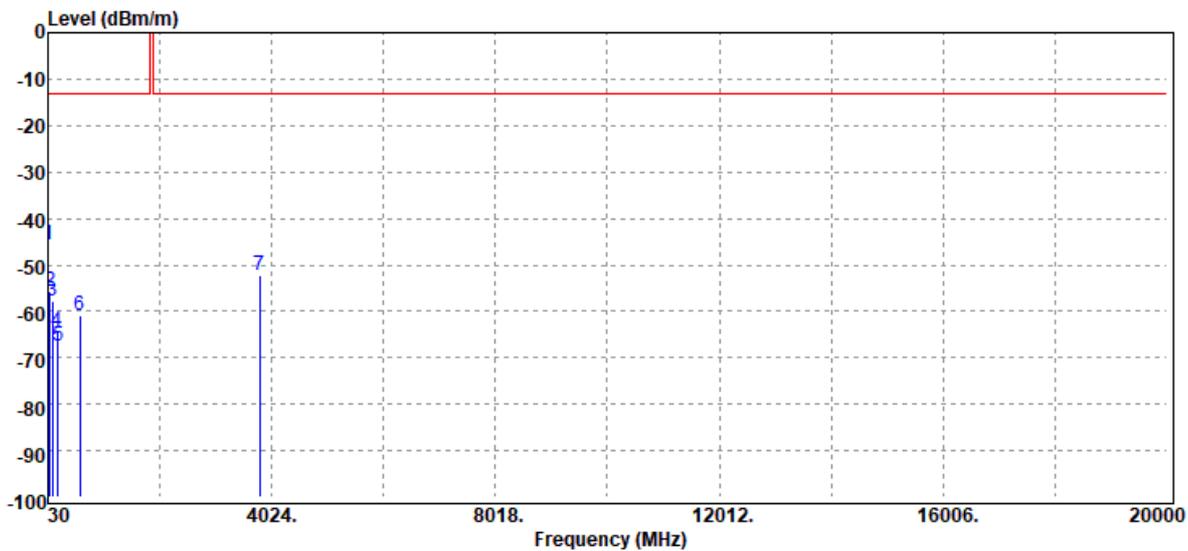
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B2
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Channel :1907.6 MHz

Test Date :2020-01-22
 Temp./Humi. :23.7/56
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.81	-30.20	-14.62	-0.99	-13.00	-32.81
71.71	-55.57	-47.71	-6.72	-1.14	-13.00	-42.57
105.66	-57.94	-55.11	-1.57	-1.26	-13.00	-44.94
197.81	-64.28	-65.39	2.79	-1.68	-13.00	-51.28
217.21	-67.52	-69.18	3.37	-1.71	-13.00	-54.52
594.54	-61.03	-61.44	3.26	-2.85	-13.00	-48.03
3815.20	-52.22	-57.45	12.63	-7.40	-13.00	-39.22

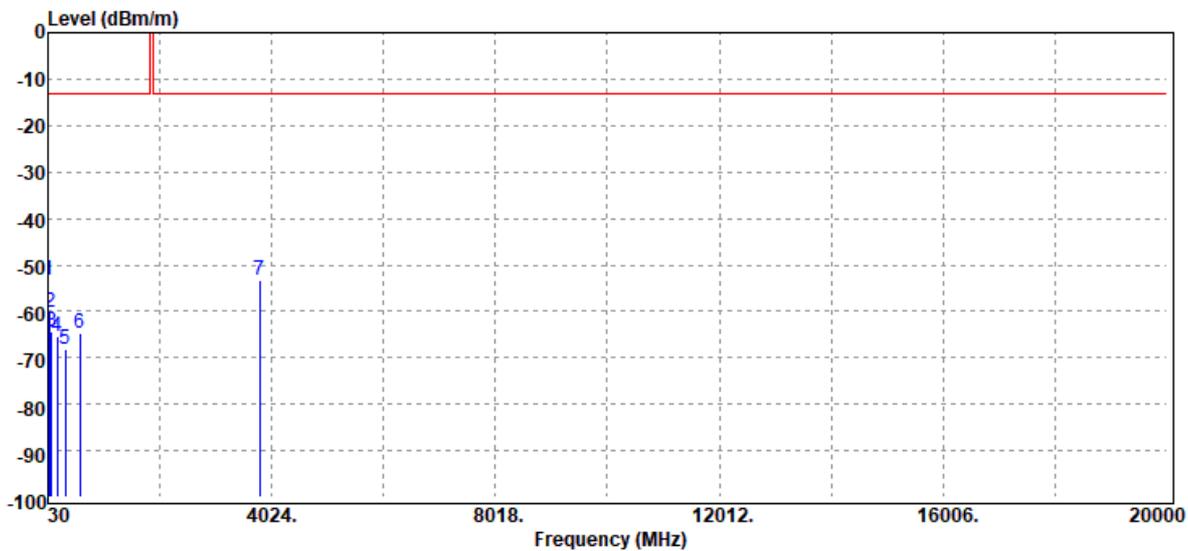
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B2
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1907.6 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.23	-37.62	-14.62	-0.99	-13.00	-40.23
71.71	-60.23	-52.37	-6.72	-1.14	-13.00	-47.23
95.96	-64.29	-62.08	-0.98	-1.23	-13.00	-51.29
197.81	-65.48	-66.59	2.79	-1.68	-13.00	-52.48
342.34	-68.25	-69.91	3.71	-2.05	-13.00	-55.25
594.54	-64.65	-65.06	3.26	-2.85	-13.00	-51.65
3815.20	-53.29	-58.52	12.63	-7.40	-13.00	-40.29

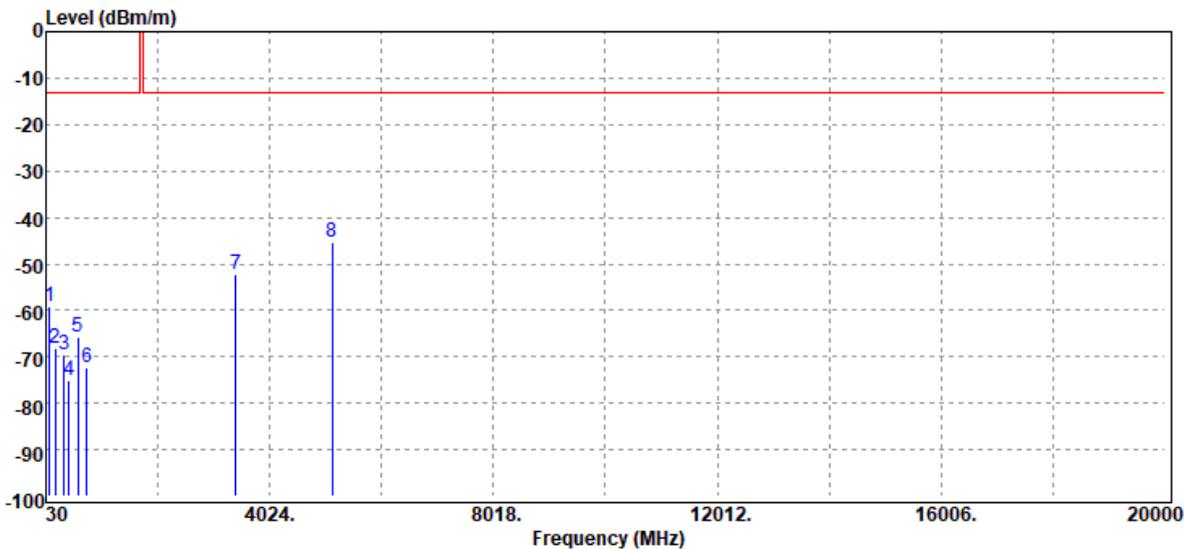
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B4
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1712.4 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.07	-52.43	-5.69	-0.95	-13.00	-46.07
197.81	-68.28	-64.56	-2.34	-1.38	-13.00	-55.28
350.10	-69.69	-66.33	-1.46	-1.90	-13.00	-56.69
439.34	-75.13	-71.54	-1.76	-1.83	-13.00	-62.13
594.54	-65.79	-61.94	-1.75	-2.10	-13.00	-52.79
757.50	-72.28	-67.88	-1.80	-2.60	-13.00	-59.28
3424.80	-52.35	-58.95	12.40	-5.80	-13.00	-39.35
5137.20	-45.33	-50.37	12.10	-7.06	-13.00	-32.33

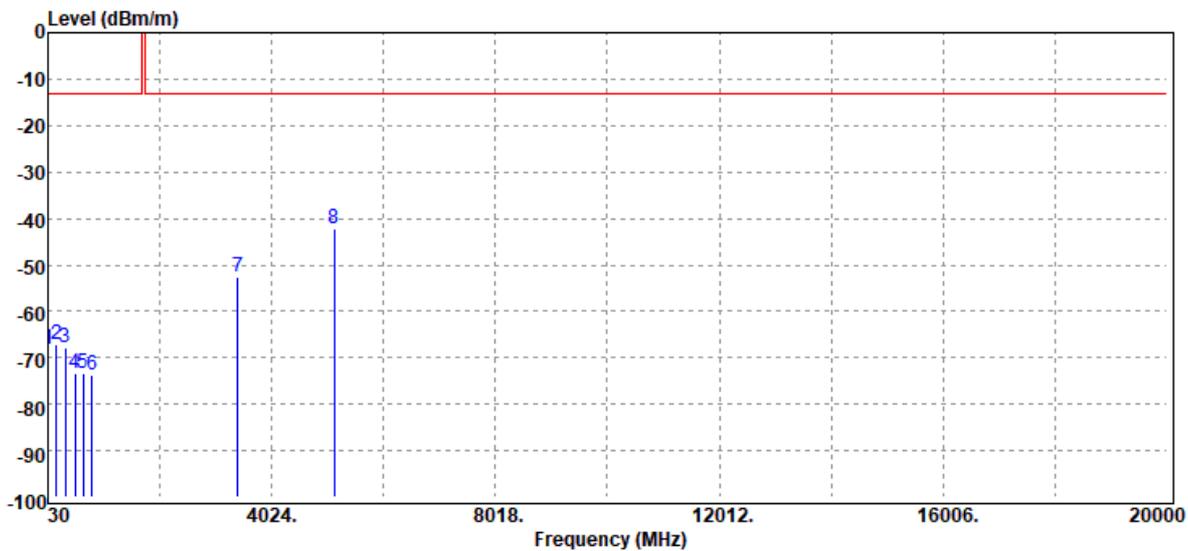
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B4
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1712.4 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-68.18	-46.46	-21.20	-0.52	-13.00	-55.18
180.35	-67.21	-61.81	-4.15	-1.25	-13.00	-54.21
337.49	-67.78	-64.26	-1.63	-1.89	-13.00	-54.78
516.94	-73.49	-69.46	-1.45	-2.58	-13.00	-60.49
662.44	-73.21	-68.69	-1.37	-3.15	-13.00	-60.21
812.79	-73.63	-68.88	-1.60	-3.15	-13.00	-60.63
3424.80	-52.73	-59.33	12.40	-5.80	-13.00	-39.73
5137.20	-42.11	-47.15	12.10	-7.06	-13.00	-29.11

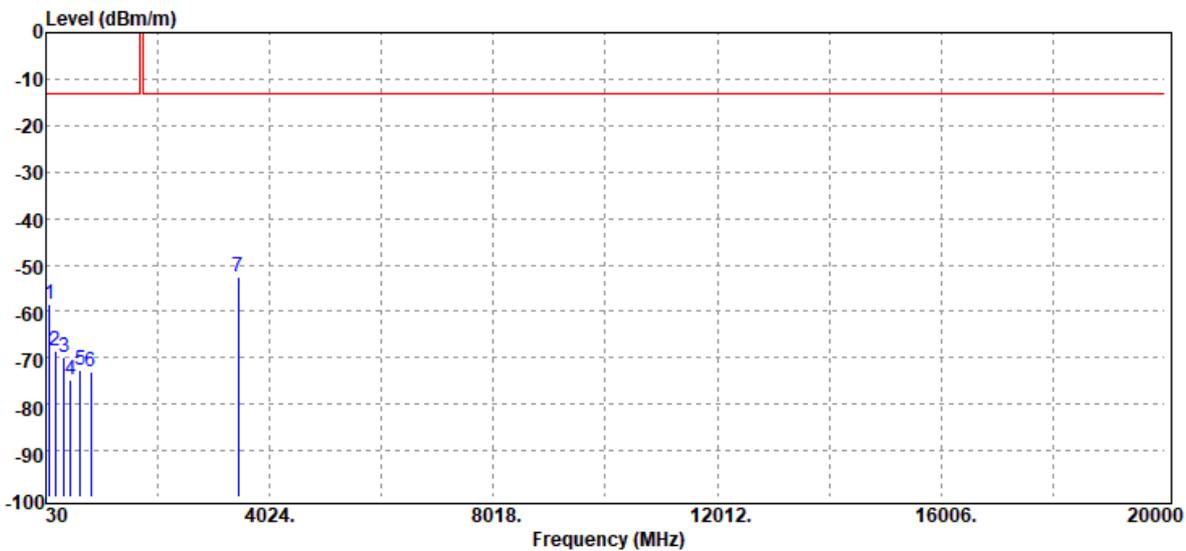
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B4
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1732.4 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.36	-51.72	-5.69	-0.95	-13.00	-45.36
197.81	-68.67	-64.95	-2.34	-1.38	-13.00	-55.67
350.10	-70.05	-66.69	-1.46	-1.90	-13.00	-57.05
469.41	-74.73	-70.97	-1.50	-2.26	-13.00	-61.73
638.19	-72.71	-68.68	-1.54	-2.49	-13.00	-59.71
837.04	-72.84	-68.04	-1.79	-3.01	-13.00	-59.84
3464.80	-52.72	-59.34	12.37	-5.75	-13.00	-39.72

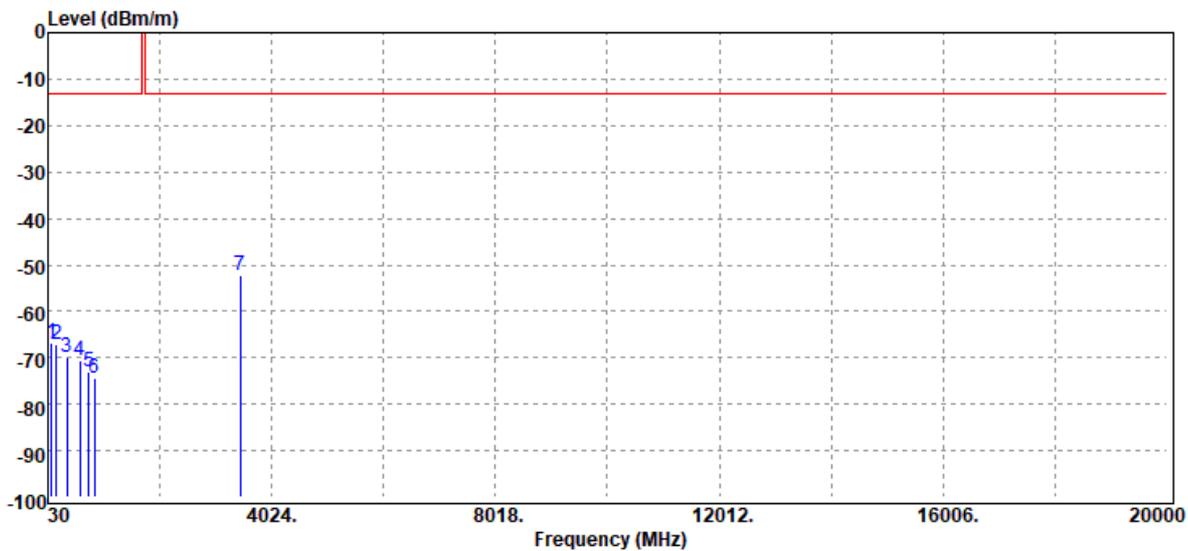
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B4
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.4 MHz

Test Date :2020-01-31
 Temp./Humi. :18.5/55
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.91	-60.27	-5.69	-0.95	-13.00	-53.91
180.35	-67.05	-61.65	-4.15	-1.25	-13.00	-54.05
372.41	-70.04	-66.51	-1.62	-1.91	-13.00	-57.04
594.54	-70.51	-66.66	-1.75	-2.10	-13.00	-57.51
757.50	-73.00	-68.60	-1.80	-2.60	-13.00	-60.00
866.14	-74.57	-70.30	-1.61	-2.66	-13.00	-61.57
3464.80	-52.32	-58.94	12.37	-5.75	-13.00	-39.32

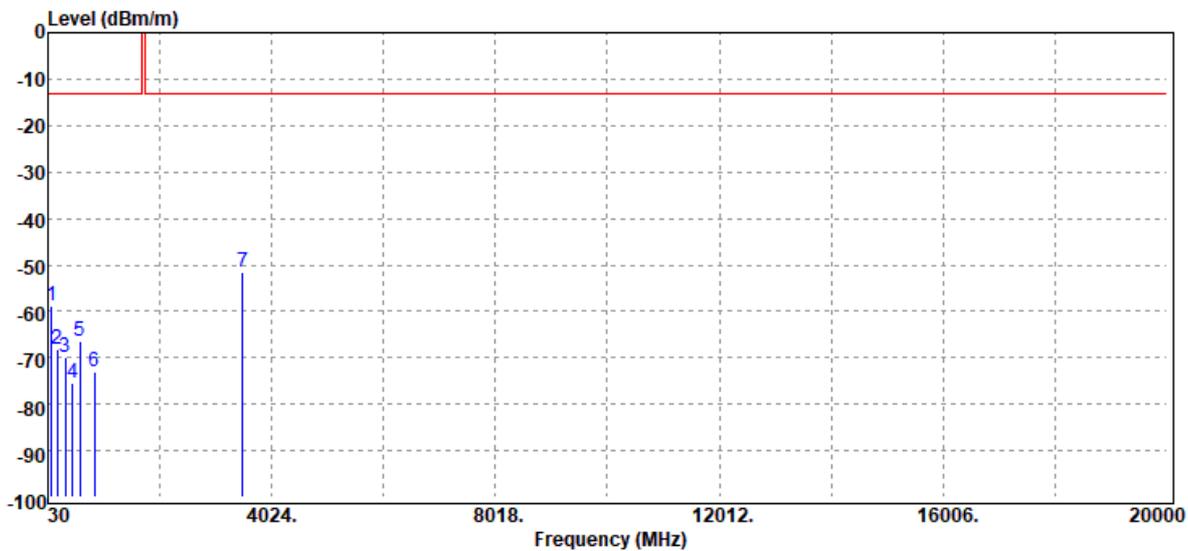
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B4
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1752.6 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.69	-52.05	-5.69	-0.95	-13.00	-45.69
197.81	-68.14	-64.42	-2.34	-1.38	-13.00	-55.14
343.31	-69.97	-66.49	-1.59	-1.89	-13.00	-56.97
469.41	-75.43	-71.67	-1.50	-2.26	-13.00	-62.43
594.54	-66.44	-62.59	-1.75	-2.10	-13.00	-53.44
854.50	-73.12	-68.49	-1.60	-3.03	-13.00	-60.12
3505.20	-51.52	-58.08	12.28	-5.72	-13.00	-38.52

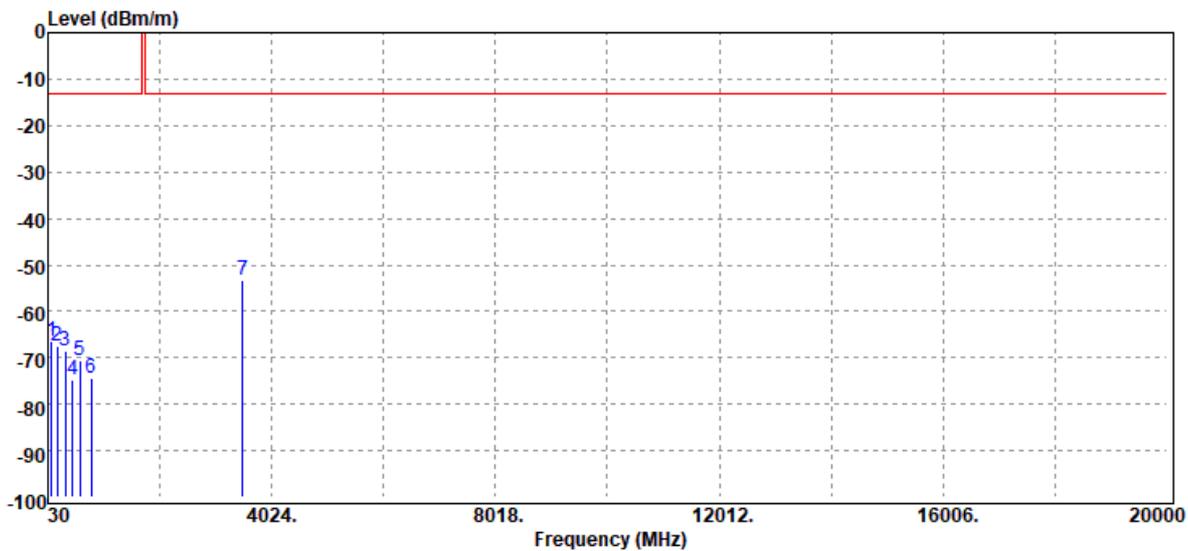
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B4
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1752.6 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.30	-59.66	-5.69	-0.95	-13.00	-53.30
197.81	-67.40	-63.68	-2.34	-1.38	-13.00	-54.40
337.49	-68.62	-65.10	-1.63	-1.89	-13.00	-55.62
469.41	-74.57	-70.81	-1.50	-2.26	-13.00	-61.57
594.54	-70.58	-66.73	-1.75	-2.10	-13.00	-57.58
799.21	-74.50	-69.77	-1.59	-3.14	-13.00	-61.50
3505.20	-53.41	-59.97	12.28	-5.72	-13.00	-40.41

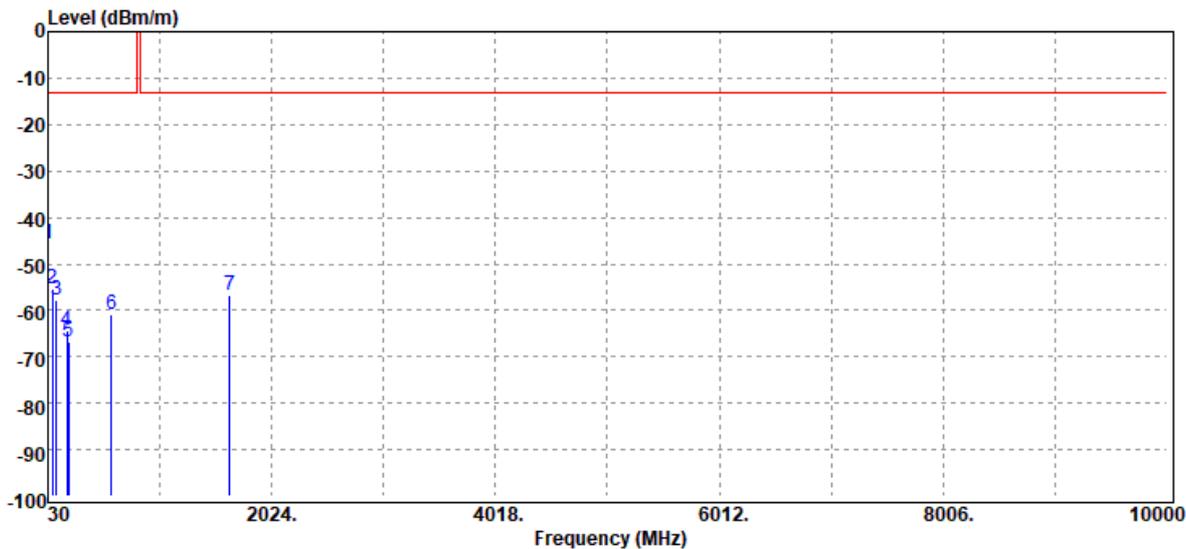
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B5
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :826.4 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.60	-29.99	-14.62	-0.99	-13.00	-32.60
71.71	-55.35	-47.49	-6.72	-1.14	-13.00	-42.35
105.66	-57.68	-54.85	-1.57	-1.26	-13.00	-44.68
197.81	-64.44	-65.55	2.79	-1.68	-13.00	-51.44
217.21	-66.71	-68.37	3.37	-1.71	-13.00	-53.71
594.54	-60.96	-61.37	3.26	-2.85	-13.00	-47.96
1652.80	-56.89	-61.57	9.34	-4.66	-13.00	-43.89

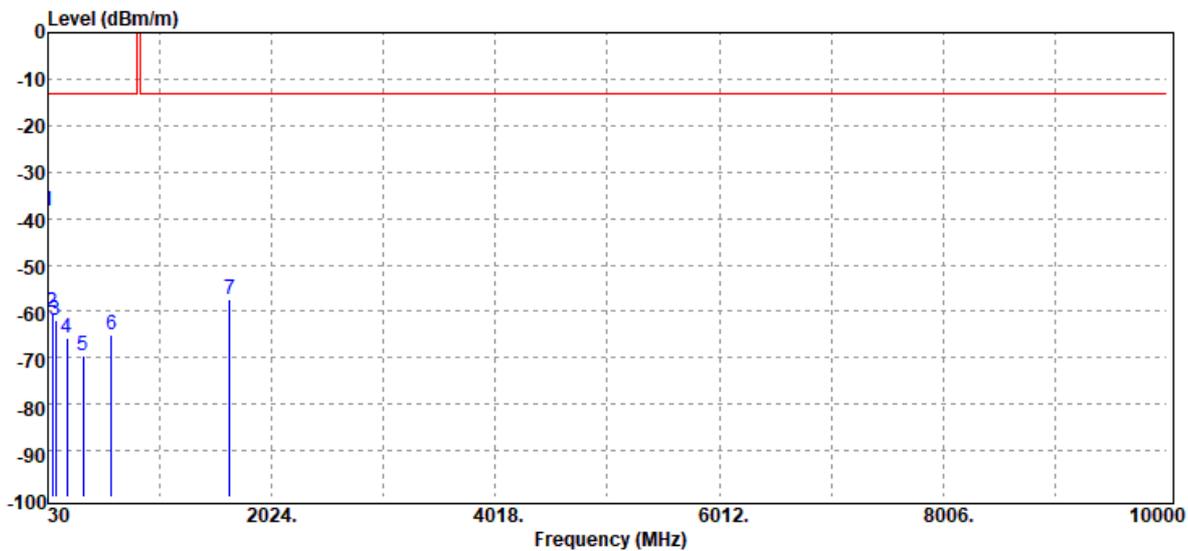
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B5
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :826.4 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-38.35	-22.74	-14.62	-0.99	-13.00	-25.35
71.71	-60.36	-52.50	-6.72	-1.14	-13.00	-47.36
95.96	-61.97	-59.76	-0.98	-1.23	-13.00	-48.97
197.81	-65.58	-66.69	2.79	-1.68	-13.00	-52.58
342.34	-69.53	-71.19	3.71	-2.05	-13.00	-56.53
594.54	-65.10	-65.51	3.26	-2.85	-13.00	-52.10
1652.80	-57.43	-62.11	9.34	-4.66	-13.00	-44.43

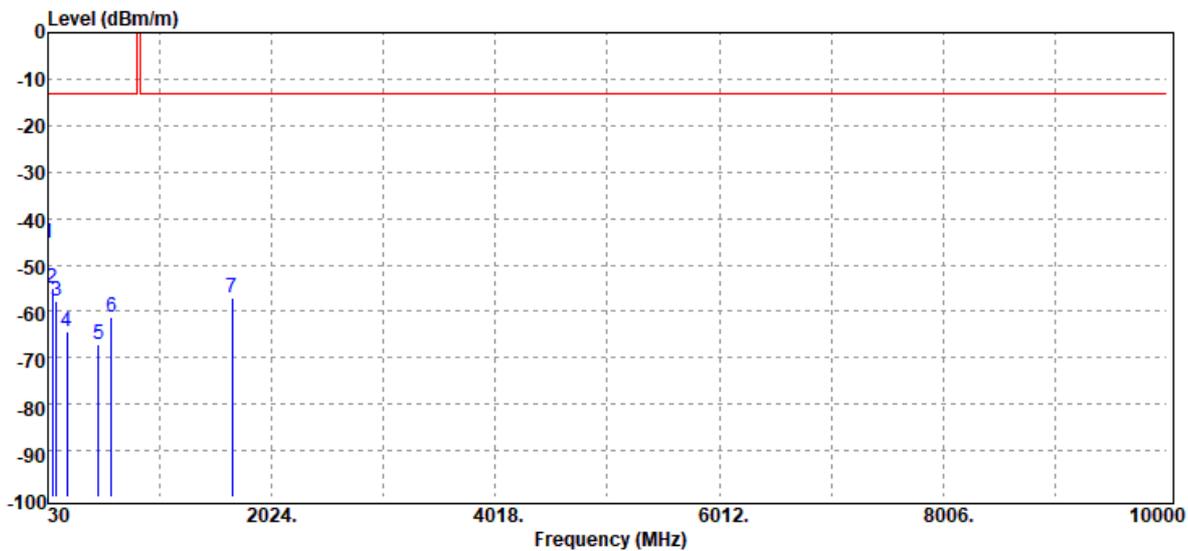
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B5
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.6 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.43	-29.82	-14.62	-0.99	-13.00	-32.43
71.71	-54.95	-47.09	-6.72	-1.14	-13.00	-41.95
105.66	-57.78	-54.95	-1.57	-1.26	-13.00	-44.78
197.81	-64.27	-65.38	2.79	-1.68	-13.00	-51.27
479.11	-67.04	-68.53	3.81	-2.32	-13.00	-54.04
594.54	-61.07	-61.48	3.26	-2.85	-13.00	-48.07
1673.20	-57.24	-61.93	9.41	-4.72	-13.00	-44.24

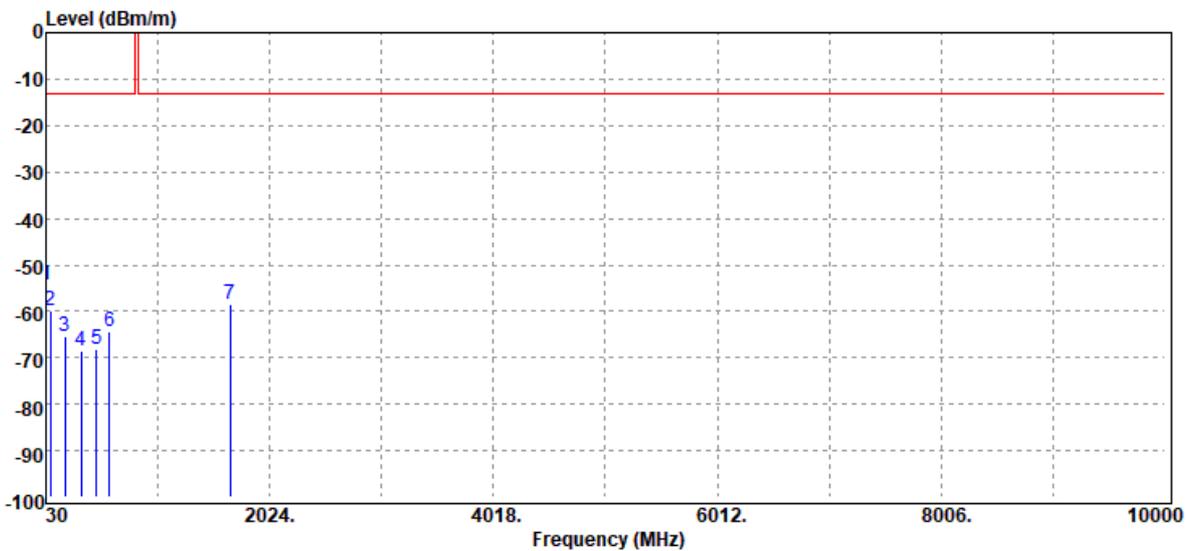
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B5
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.6 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-54.45	-38.84	-14.62	-0.99	-13.00	-41.45
71.71	-59.90	-52.04	-6.72	-1.14	-13.00	-46.90
197.81	-65.33	-66.44	2.79	-1.68	-13.00	-52.33
342.34	-68.53	-70.19	3.71	-2.05	-13.00	-55.53
479.11	-68.18	-69.67	3.81	-2.32	-13.00	-55.18
594.54	-64.25	-64.66	3.26	-2.85	-13.00	-51.25
1673.20	-58.52	-63.21	9.41	-4.72	-13.00	-45.52

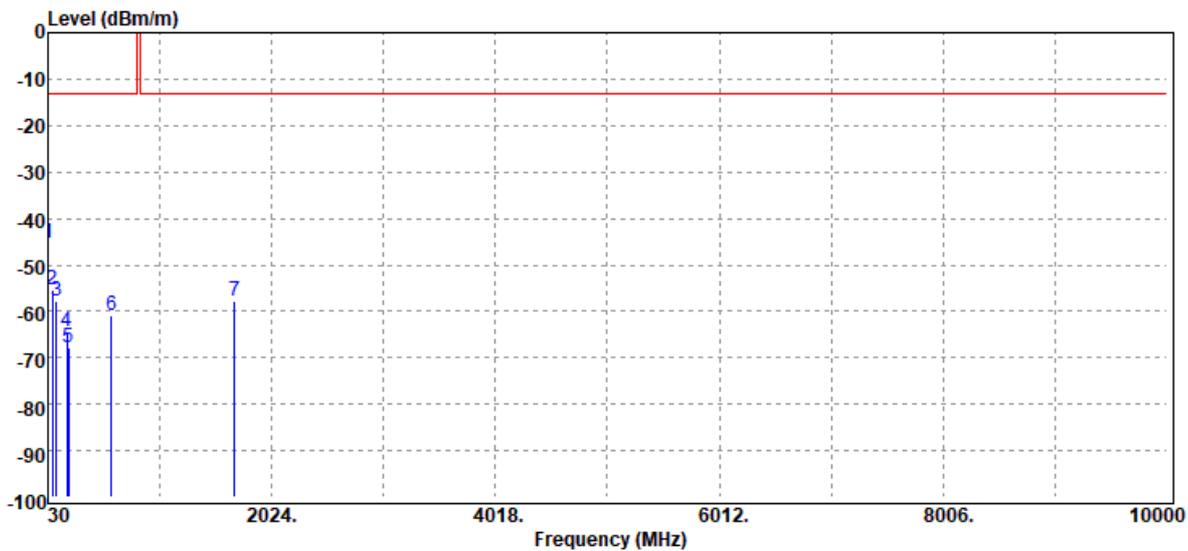
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Report Number :ER/2019/C0117
Operation Mode :WCDMA B5
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :846.6 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.25	-29.64	-14.62	-0.99	-13.00	-32.25
71.71	-55.42	-47.56	-6.72	-1.14	-13.00	-42.42
105.66	-57.61	-54.78	-1.57	-1.26	-13.00	-44.61
197.81	-64.24	-65.35	2.79	-1.68	-13.00	-51.24
217.21	-67.83	-69.49	3.37	-1.71	-13.00	-54.83
594.54	-60.99	-61.40	3.26	-2.85	-13.00	-47.99
1693.20	-57.81	-62.51	9.47	-4.77	-13.00	-44.81

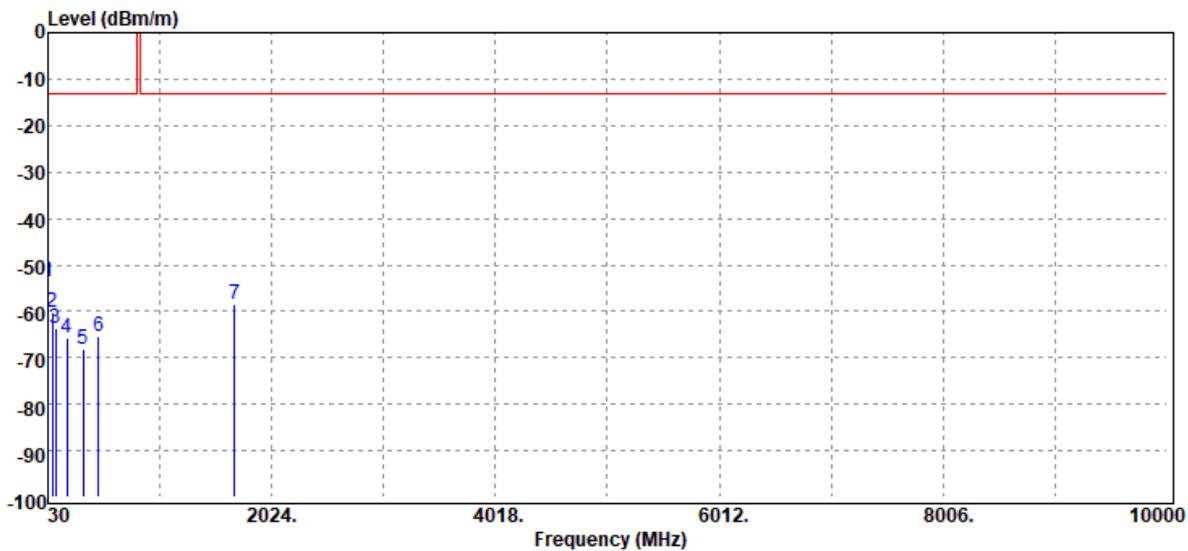
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B5
 Test Mode :Tx CH High
 EUT Pol :E2 Plane
 Test Channel :846.6 MHz

Test Date :2020-01-22
 Temp./Humi. :23.7/56
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.77	-38.16	-14.62	-0.99	-13.00	-40.77
71.71	-60.29	-52.43	-6.72	-1.14	-13.00	-47.29
95.96	-63.54	-61.33	-0.98	-1.23	-13.00	-50.54
197.81	-65.90	-67.01	2.79	-1.68	-13.00	-52.90
342.34	-68.26	-69.92	3.71	-2.05	-13.00	-55.26
483.96	-65.53	-67.03	3.82	-2.32	-13.00	-52.53
1693.20	-58.44	-63.14	9.47	-4.77	-13.00	-45.44

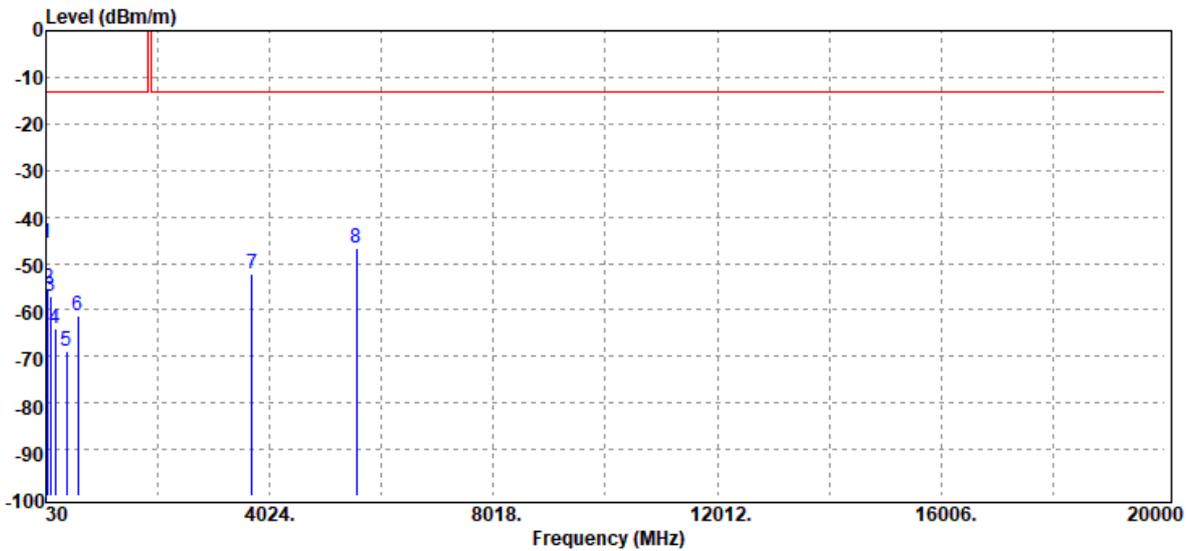
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Report Number :ER/2019/C0117
Operation Mode :LTE B2
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1855.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.57	-29.96	-14.62	-0.99	-13.00	-32.57
71.71	-55.40	-47.54	-6.72	-1.14	-13.00	-42.40
105.66	-57.25	-54.42	-1.57	-1.26	-13.00	-44.25
197.81	-63.86	-64.97	2.79	-1.68	-13.00	-50.86
395.69	-68.93	-70.33	3.72	-2.32	-13.00	-55.93
594.54	-61.12	-61.53	3.26	-2.85	-13.00	-48.12
3710.00	-52.15	-57.45	12.59	-7.29	-13.00	-39.15
5565.00	-46.63	-50.37	12.93	-9.19	-13.00	-33.63

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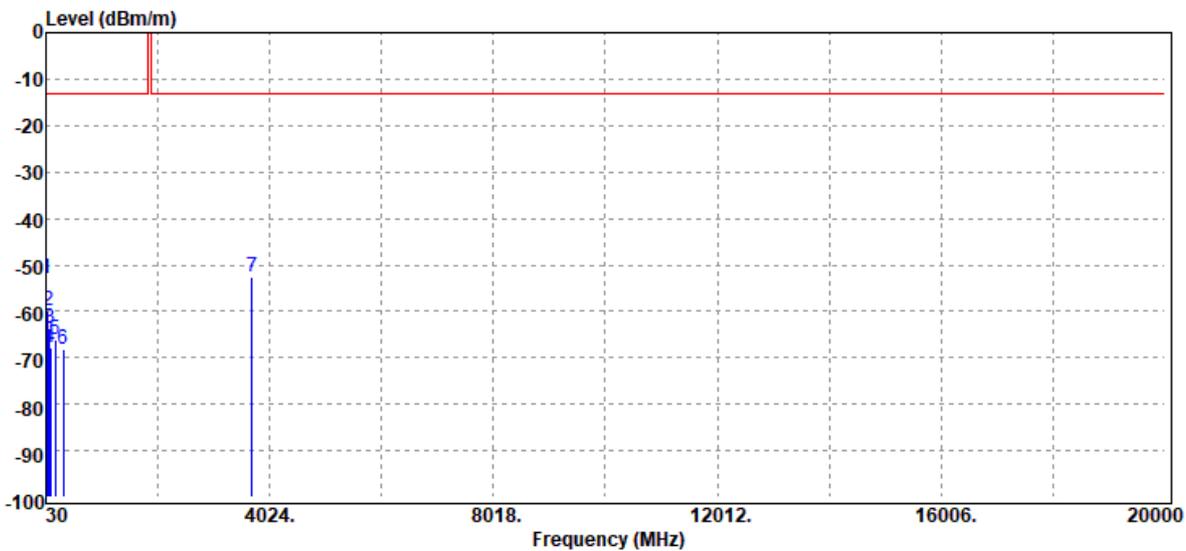
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Report Number :ER/2019/C0117
Operation Mode :LTE B2
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1855.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-52.96	-37.35	-14.62	-0.99	-13.00	-39.96
71.71	-59.71	-51.85	-6.72	-1.14	-13.00	-46.71
95.96	-63.84	-61.63	-0.98	-1.23	-13.00	-50.84
114.39	-67.66	-64.45	-1.92	-1.29	-13.00	-54.66
197.81	-65.92	-67.03	2.79	-1.68	-13.00	-52.92
342.34	-68.04	-69.70	3.71	-2.05	-13.00	-55.04
3710.00	-52.49	-57.79	12.59	-7.29	-13.00	-39.49

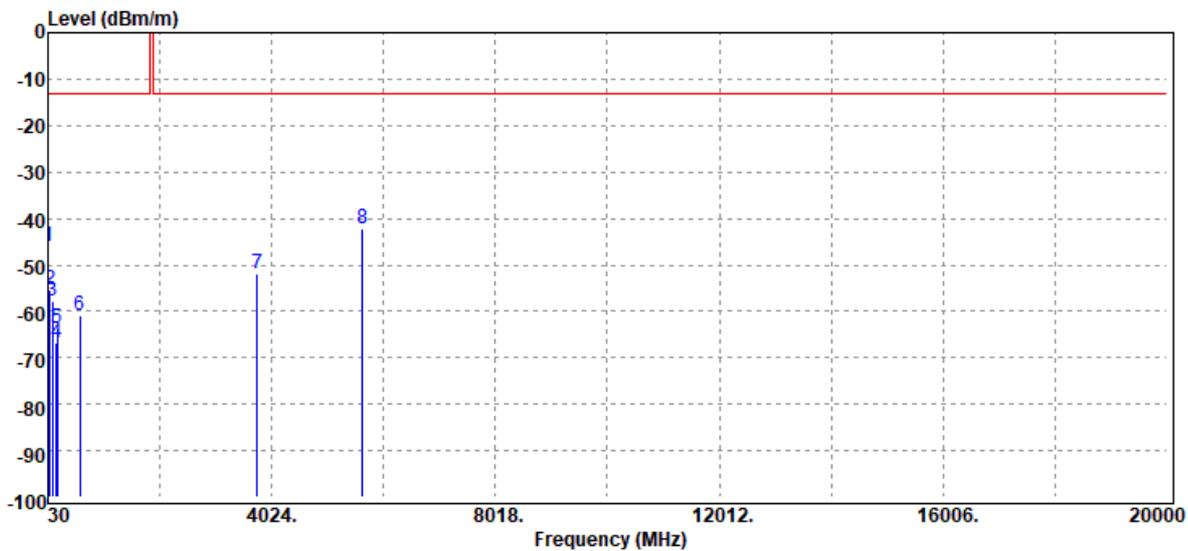
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Report Number :ER/2019/C0117
 Operation Mode :LTE B2
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1880.0 MHz

Test Date :2020-01-22
 Temp./Humi. :23.7/56
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.91	-30.30	-14.62	-0.99	-13.00	-32.91
71.71	-55.37	-47.51	-6.72	-1.14	-13.00	-42.37
105.66	-57.93	-55.10	-1.57	-1.26	-13.00	-44.93
180.35	-66.62	-65.58	0.63	-1.67	-13.00	-53.62
197.81	-63.65	-64.76	2.79	-1.68	-13.00	-50.65
594.54	-60.86	-61.27	3.26	-2.85	-13.00	-47.86
3760.00	-51.96	-57.17	12.61	-7.40	-13.00	-38.96
5640.00	-42.08	-45.82	12.96	-9.22	-13.00	-29.08

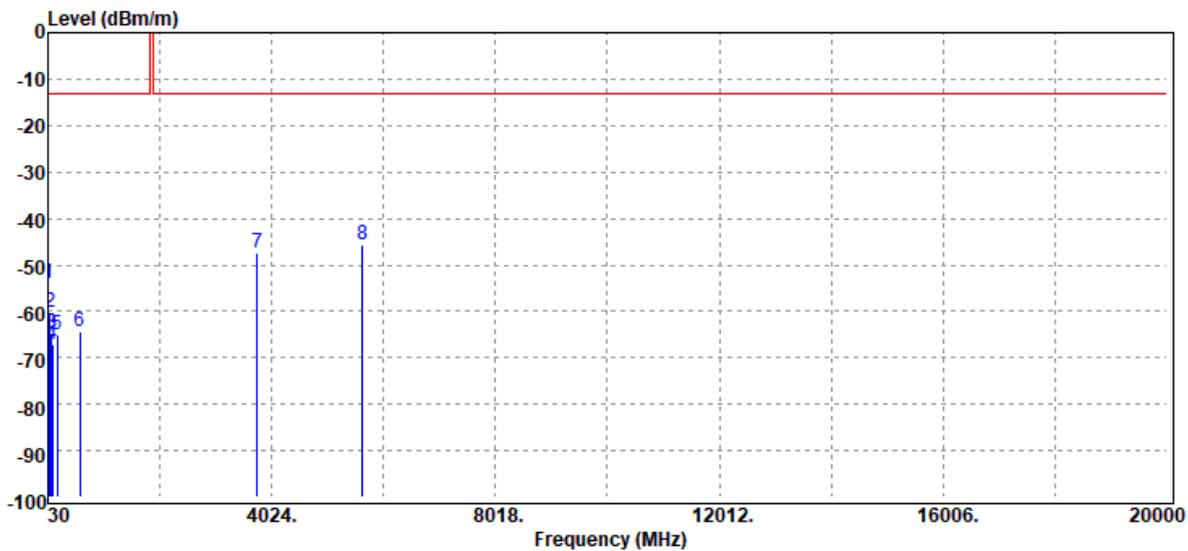
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Report Number :ER/2019/C0117
Operation Mode :LTE B2
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1880.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-54.03	-38.42	-14.62	-0.99	-13.00	-41.03
71.71	-60.12	-52.26	-6.72	-1.14	-13.00	-47.12
95.96	-64.59	-62.38	-0.98	-1.23	-13.00	-51.59
114.39	-67.04	-63.83	-1.92	-1.29	-13.00	-54.04
197.81	-65.10	-66.21	2.79	-1.68	-13.00	-52.10
594.54	-64.47	-64.88	3.26	-2.85	-13.00	-51.47
3760.00	-47.52	-52.73	12.61	-7.40	-13.00	-34.52
5640.00	-45.77	-49.51	12.96	-9.22	-13.00	-32.77

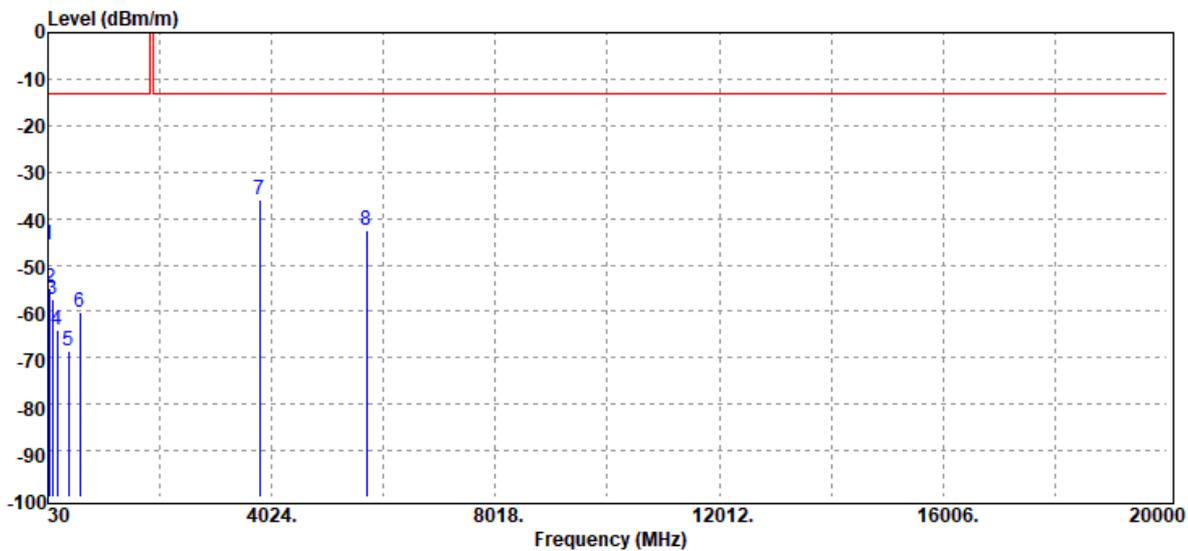
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Report Number :ER/2019/C0117
Operation Mode :LTE B2
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1905.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.62	-30.01	-14.62	-0.99	-13.00	-32.62
71.71	-54.87	-47.01	-6.72	-1.14	-13.00	-41.87
105.66	-57.48	-54.65	-1.57	-1.26	-13.00	-44.48
197.81	-63.90	-65.01	2.79	-1.68	-13.00	-50.90
395.69	-68.40	-69.80	3.72	-2.32	-13.00	-55.40
594.54	-60.18	-60.59	3.26	-2.85	-13.00	-47.18
3810.00	-36.04	-41.27	12.63	-7.40	-13.00	-23.04
5715.00	-42.47	-46.14	12.99	-9.32	-13.00	-29.47

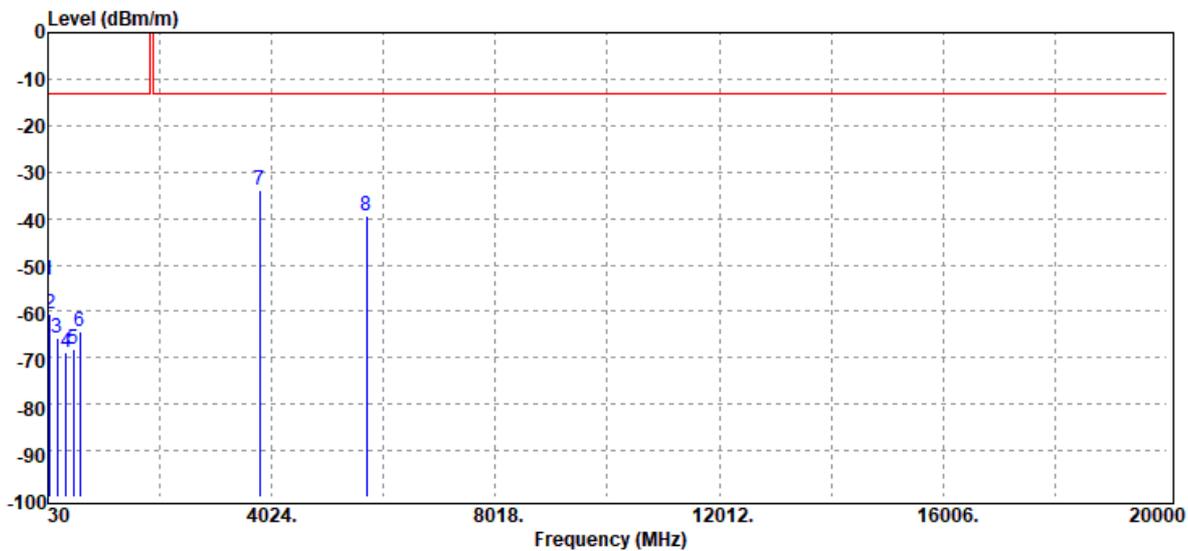
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Report Number :ER/2019/C0117
Operation Mode :LTE B2
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1905.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.11	-37.50	-14.62	-0.99	-13.00	-40.11
71.71	-60.41	-52.55	-6.72	-1.14	-13.00	-47.41
197.81	-65.61	-66.72	2.79	-1.68	-13.00	-52.61
359.80	-68.94	-70.57	3.75	-2.12	-13.00	-55.94
479.11	-68.10	-69.59	3.81	-2.32	-13.00	-55.10
594.54	-64.45	-64.86	3.26	-2.85	-13.00	-51.45
3810.00	-33.82	-39.05	12.63	-7.40	-13.00	-20.82
5715.00	-39.37	-43.04	12.99	-9.32	-13.00	-26.37

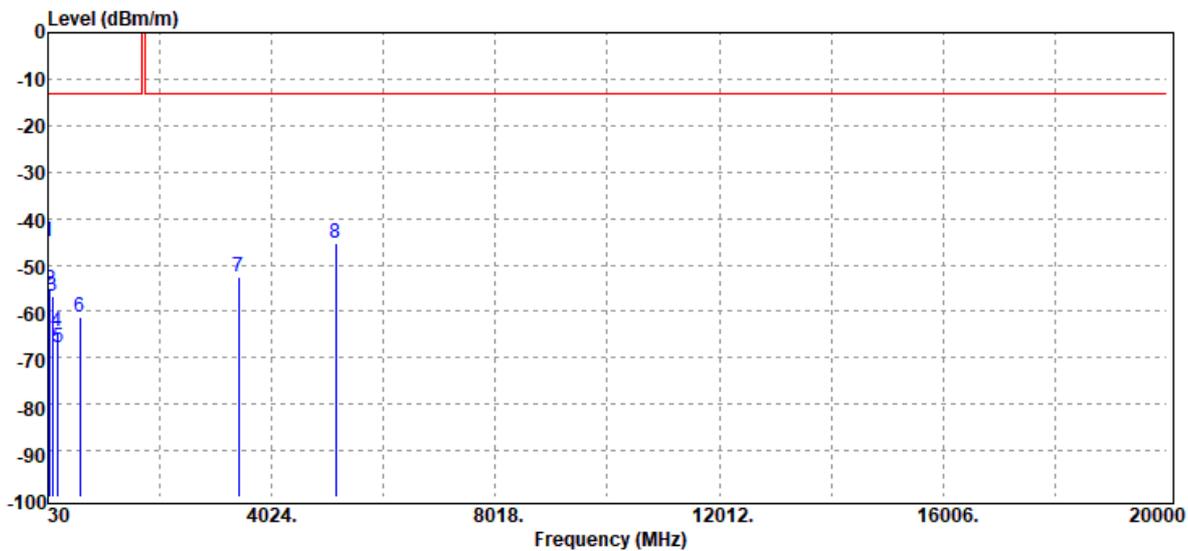
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Report Number :ER/2019/C0117
Operation Mode :LTE B4
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1720.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.07	-29.46	-14.62	-0.99	-13.00	-32.07
71.71	-55.53	-47.67	-6.72	-1.14	-13.00	-42.53
105.66	-56.86	-54.03	-1.57	-1.26	-13.00	-43.86
197.81	-64.46	-65.57	2.79	-1.68	-13.00	-51.46
217.21	-67.87	-69.53	3.37	-1.71	-13.00	-54.87
594.54	-61.09	-61.50	3.26	-2.85	-13.00	-48.09
3440.00	-52.57	-57.94	12.38	-7.01	-13.00	-39.57
5160.00	-45.22	-49.21	12.70	-8.71	-13.00	-32.22

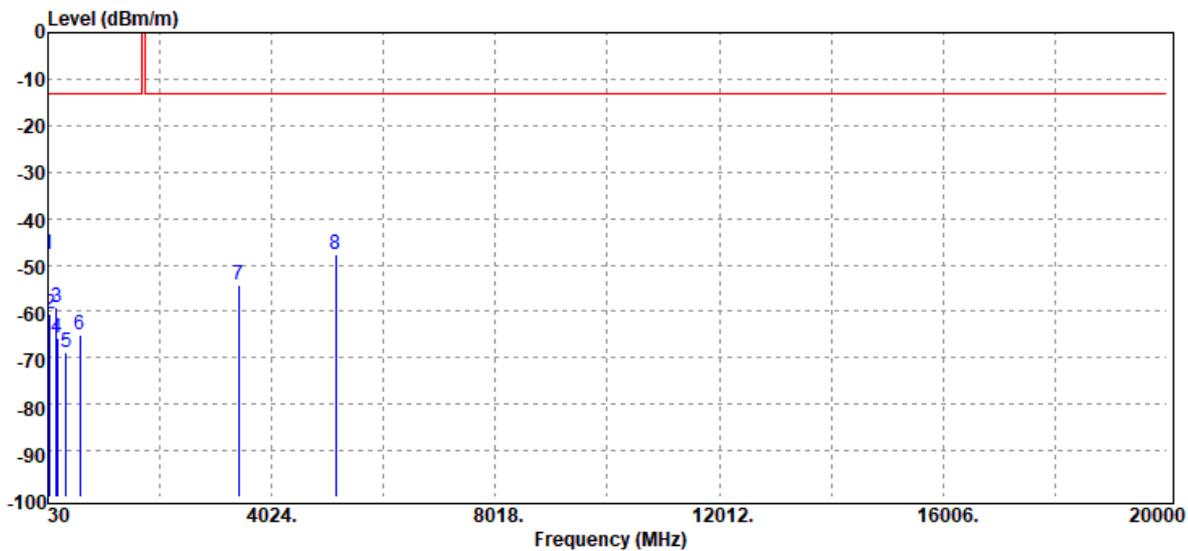
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Report Number :ER/2019/C0117
Operation Mode :LTE B4
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1720.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-47.74	-32.13	-14.62	-0.99	-13.00	-34.74
71.71	-60.58	-52.72	-6.72	-1.14	-13.00	-47.58
183.26	-59.15	-58.55	1.07	-1.67	-13.00	-46.15
197.81	-65.75	-66.86	2.79	-1.68	-13.00	-52.75
353.01	-68.79	-70.45	3.75	-2.09	-13.00	-55.79
594.54	-65.09	-65.50	3.26	-2.85	-13.00	-52.09
3440.00	-54.20	-59.57	12.38	-7.01	-13.00	-41.20
5160.00	-47.72	-51.71	12.70	-8.71	-13.00	-34.72

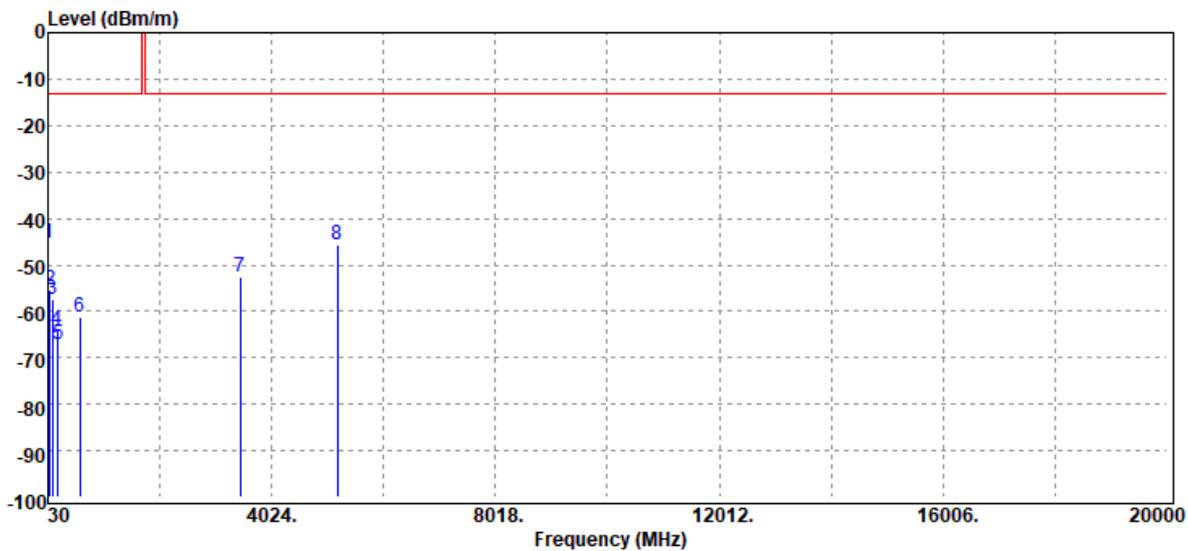
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Report Number :ER/2019/C0117
Operation Mode :LTE B4
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1732.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.40	-29.79	-14.62	-0.99	-13.00	-32.40
71.71	-55.52	-47.66	-6.72	-1.14	-13.00	-42.52
105.66	-57.48	-54.65	-1.57	-1.26	-13.00	-44.48
197.81	-63.86	-64.97	2.79	-1.68	-13.00	-50.86
217.21	-67.20	-68.86	3.37	-1.71	-13.00	-54.20
594.54	-61.33	-61.74	3.26	-2.85	-13.00	-48.33
3465.00	-52.45	-57.86	12.43	-7.02	-13.00	-39.45
5197.50	-45.57	-49.57	12.72	-8.72	-13.00	-32.57

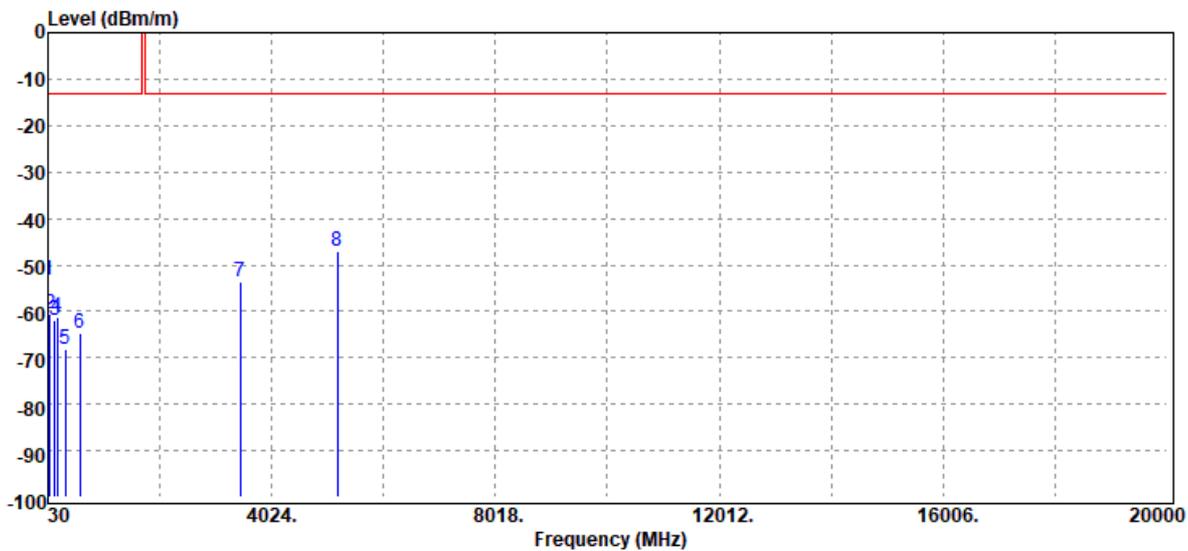
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Report Number :ER/2019/C0117
Operation Mode :LTE B4
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1732.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.16	-37.55	-14.62	-0.99	-13.00	-40.16
71.71	-60.54	-52.68	-6.72	-1.14	-13.00	-47.54
159.01	-61.86	-58.41	-1.87	-1.58	-13.00	-48.86
201.69	-61.19	-62.54	3.03	-1.68	-13.00	-48.19
342.34	-68.21	-69.87	3.71	-2.05	-13.00	-55.21
594.54	-64.61	-65.02	3.26	-2.85	-13.00	-51.61
3465.00	-53.53	-58.94	12.43	-7.02	-13.00	-40.53
5197.50	-46.95	-50.95	12.72	-8.72	-13.00	-33.95

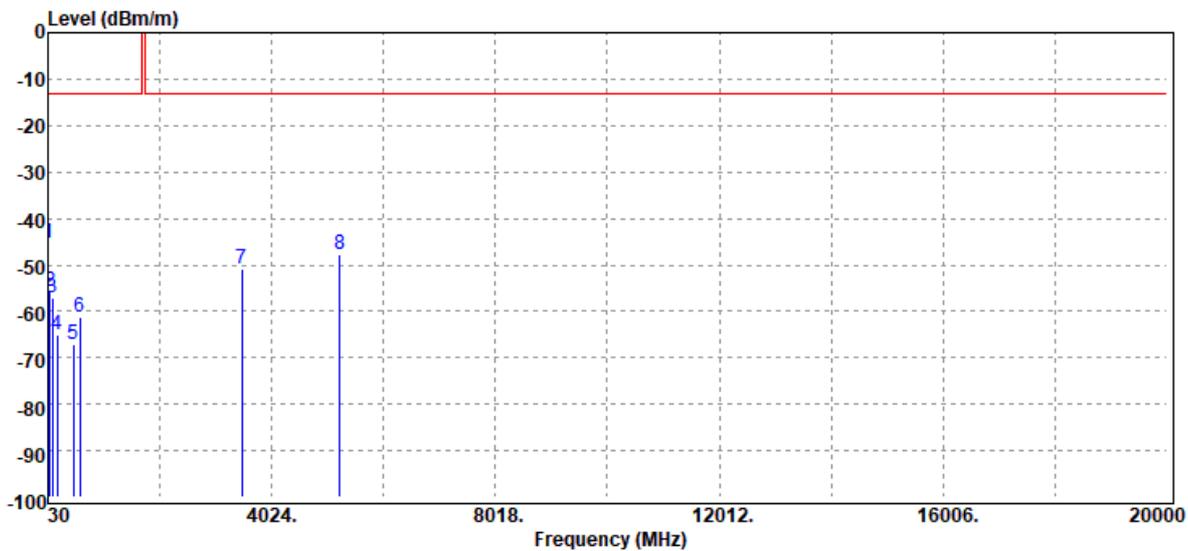
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Report Number :ER/2019/C0117
Operation Mode :LTE B4
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1745 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.47	-29.86	-14.62	-0.99	-13.00	-32.47
71.71	-55.73	-47.87	-6.72	-1.14	-13.00	-42.73
105.66	-57.09	-54.26	-1.57	-1.26	-13.00	-44.09
197.81	-65.02	-66.13	2.79	-1.68	-13.00	-52.02
479.11	-67.16	-68.65	3.81	-2.32	-13.00	-54.16
594.54	-61.37	-61.78	3.26	-2.85	-13.00	-48.37
3490.00	-50.91	-56.31	12.48	-7.08	-13.00	-37.91
5235.00	-47.91	-51.88	12.74	-8.77	-13.00	-34.91

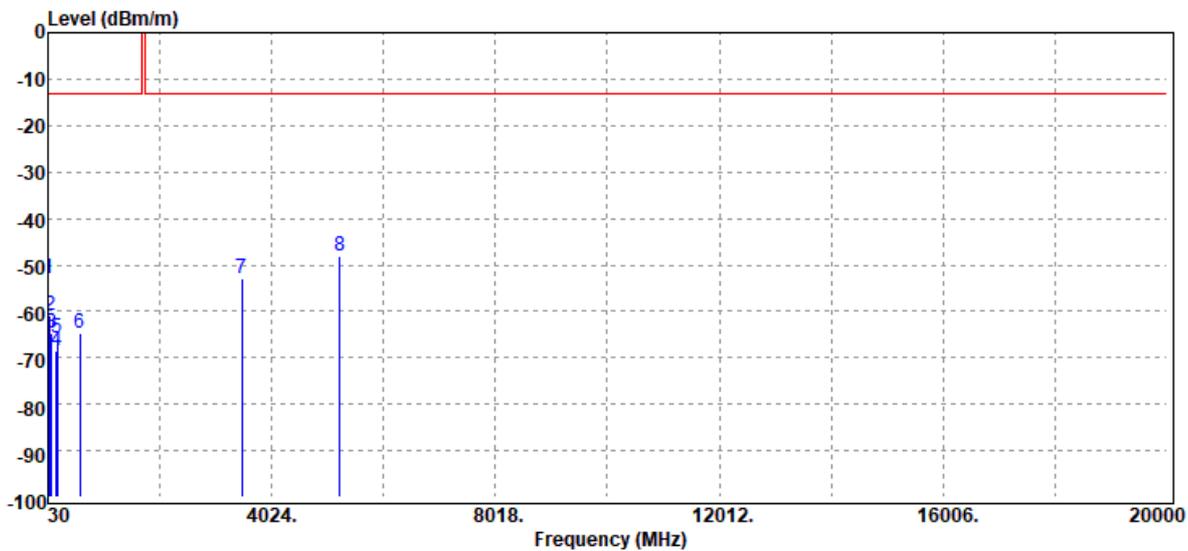
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Report Number :ER/2019/C0117
Operation Mode :LTE B4
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1745 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.05	-37.44	-14.62	-0.99	-13.00	-40.05
71.71	-60.83	-52.97	-6.72	-1.14	-13.00	-47.83
95.96	-64.62	-62.41	-0.98	-1.23	-13.00	-51.62
180.35	-68.62	-67.58	0.63	-1.67	-13.00	-55.62
197.81	-65.66	-66.77	2.79	-1.68	-13.00	-52.66
594.54	-64.64	-65.05	3.26	-2.85	-13.00	-51.64
3490.00	-52.79	-58.19	12.48	-7.08	-13.00	-39.79
5235.00	-48.20	-52.17	12.74	-8.77	-13.00	-35.20

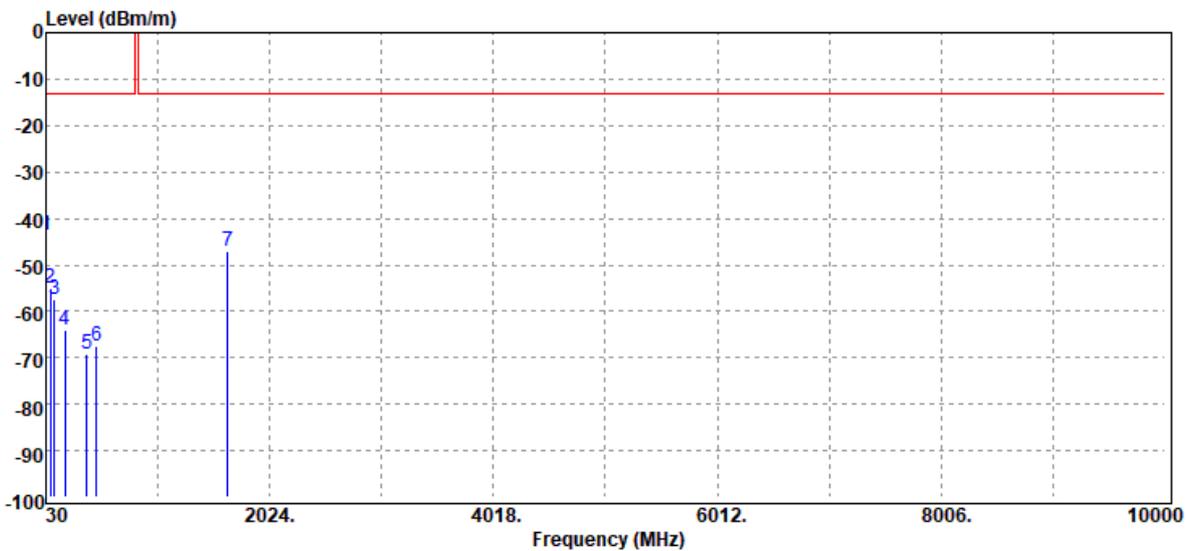
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Report Number :ER/2019/C0117
 Operation Mode :LTE B5
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Channel :829.0 MHz

Test Date :2020-01-22
 Temp./Humi. :23.7/56
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-43.58	-27.97	-14.62	-0.99	-13.00	-30.58
71.71	-55.17	-47.31	-6.72	-1.14	-13.00	-42.17
105.66	-57.46	-54.63	-1.57	-1.26	-13.00	-44.46
197.81	-63.90	-65.01	2.79	-1.68	-13.00	-50.90
395.69	-69.12	-70.52	3.72	-2.32	-13.00	-56.12
479.11	-67.61	-69.10	3.81	-2.32	-13.00	-54.61
1649.40	-46.93	-51.61	9.33	-4.65	-13.00	-33.93

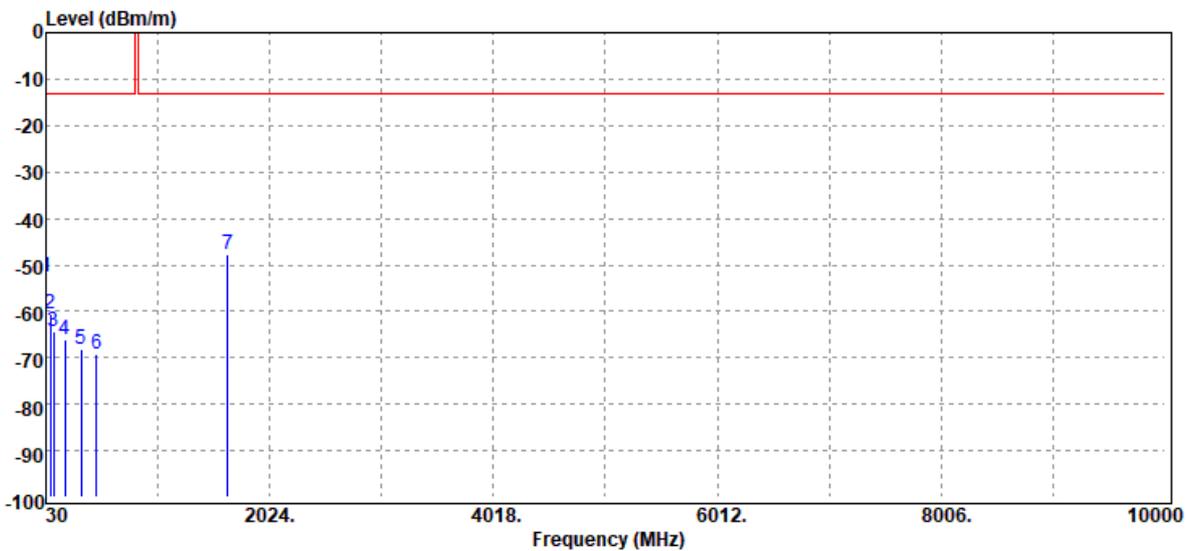
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Report Number :ER/2019/C0117
Operation Mode :LTE B5
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :829.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-52.62	-37.01	-14.62	-0.99	-13.00	-39.62
71.71	-60.57	-52.71	-6.72	-1.14	-13.00	-47.57
95.96	-64.41	-62.20	-0.98	-1.23	-13.00	-51.41
197.81	-65.98	-67.09	2.79	-1.68	-13.00	-52.98
342.34	-68.27	-69.93	3.71	-2.05	-13.00	-55.27
479.11	-69.08	-70.57	3.81	-2.32	-13.00	-56.08
1649.40	-47.84	-52.52	9.33	-4.65	-13.00	-34.84

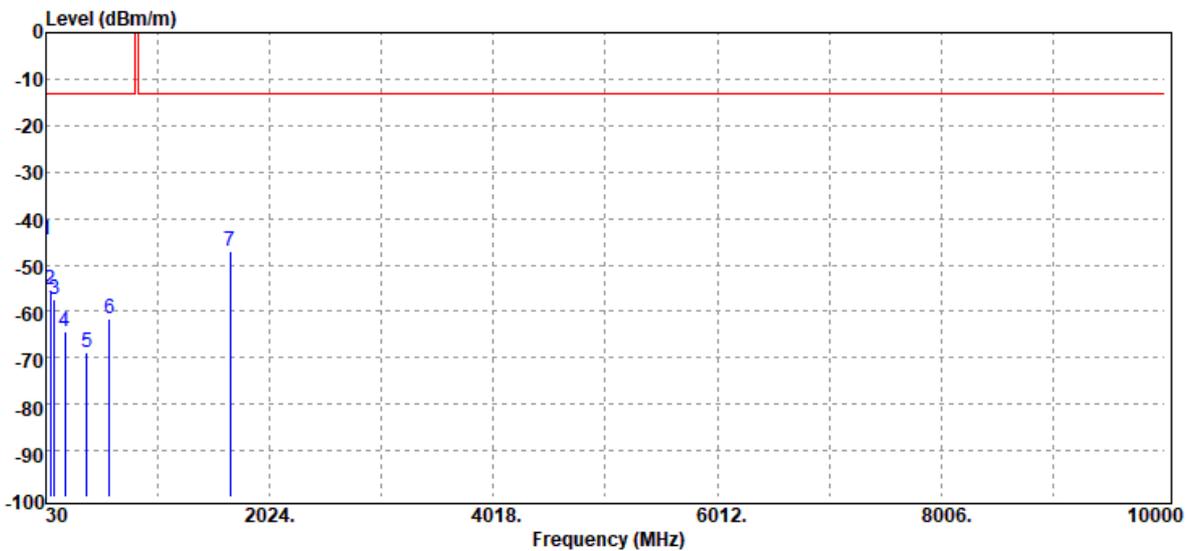
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Report Number :ER/2019/C0117
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-44.60	-28.99	-14.62	-0.99	-13.00	-31.60
71.71	-55.50	-47.64	-6.72	-1.14	-13.00	-42.50
105.66	-57.53	-54.70	-1.57	-1.26	-13.00	-44.53
197.81	-64.25	-65.36	2.79	-1.68	-13.00	-51.25
395.69	-68.82	-70.22	3.72	-2.32	-13.00	-55.82
594.54	-61.46	-61.87	3.26	-2.85	-13.00	-48.46
1673.00	-46.96	-51.65	9.41	-4.72	-13.00	-33.96

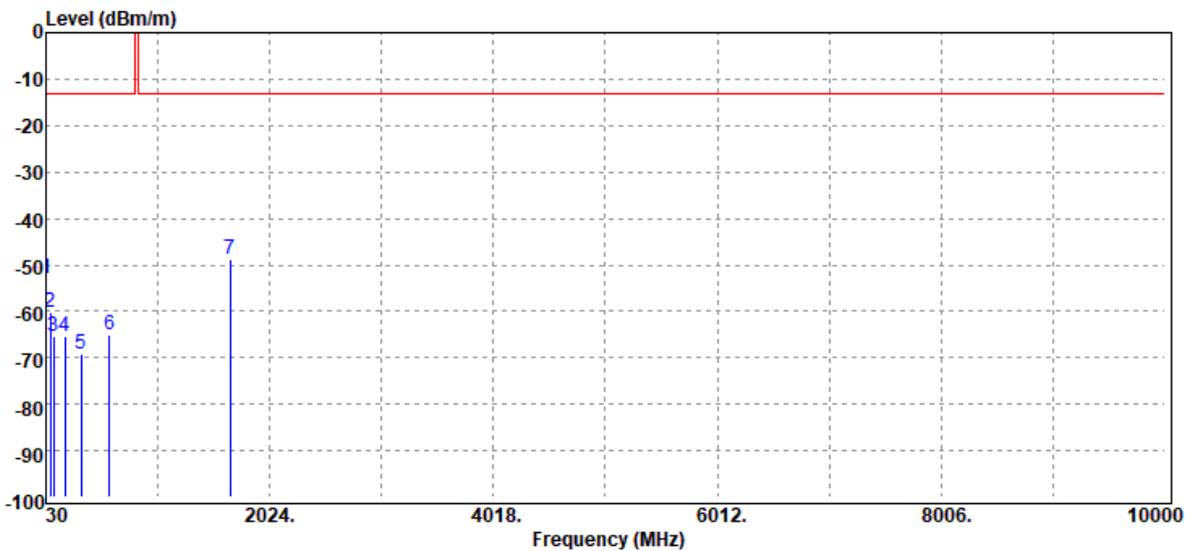
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Report Number :ER/2019/C0117
Operation Mode :LTE B5
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-52.95	-37.34	-14.62	-0.99	-13.00	-39.95
71.71	-60.27	-52.41	-6.72	-1.14	-13.00	-47.27
95.96	-65.36	-63.15	-0.98	-1.23	-13.00	-52.36
197.81	-65.33	-66.44	2.79	-1.68	-13.00	-52.33
342.34	-69.17	-70.83	3.71	-2.05	-13.00	-56.17
594.54	-65.05	-65.46	3.26	-2.85	-13.00	-52.05
1673.00	-48.79	-53.48	9.41	-4.72	-13.00	-35.79

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

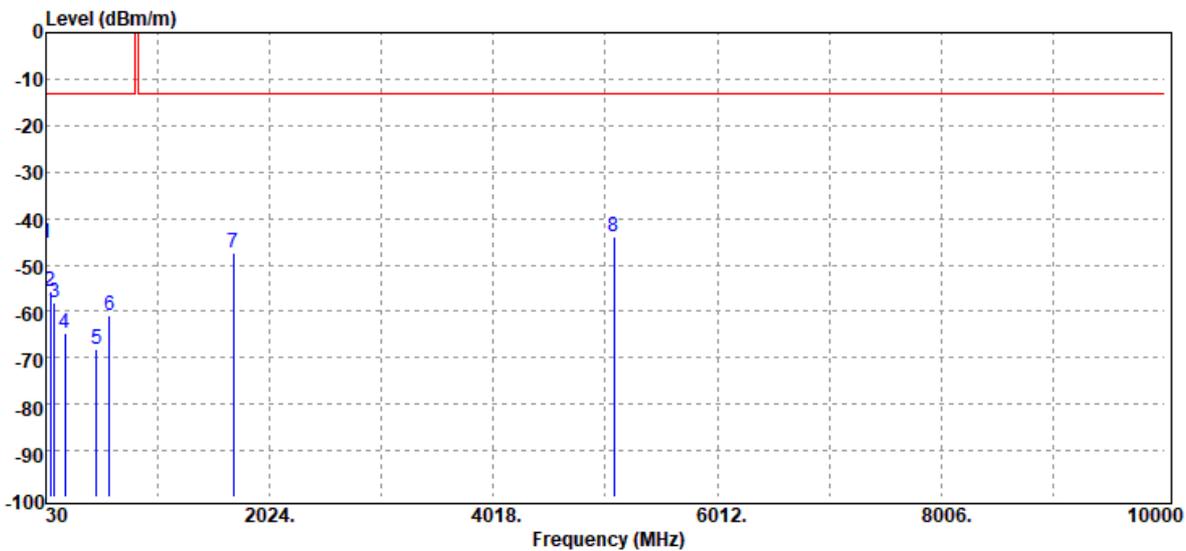
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Report Number :ER/2019/C0117
Operation Mode :LTE B5
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :848.3 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.20	-29.59	-14.62	-0.99	-13.00	-32.20
71.71	-55.68	-47.82	-6.72	-1.14	-13.00	-42.68
105.66	-58.15	-55.32	-1.57	-1.26	-13.00	-45.15
197.81	-64.80	-65.91	2.79	-1.68	-13.00	-51.80
479.11	-68.07	-69.56	3.81	-2.32	-13.00	-55.07
594.54	-60.82	-61.23	3.26	-2.85	-13.00	-47.82
1696.60	-47.38	-52.09	9.48	-4.77	-13.00	-34.38
5089.80	-44.06	-48.08	12.66	-8.64	-13.00	-31.06

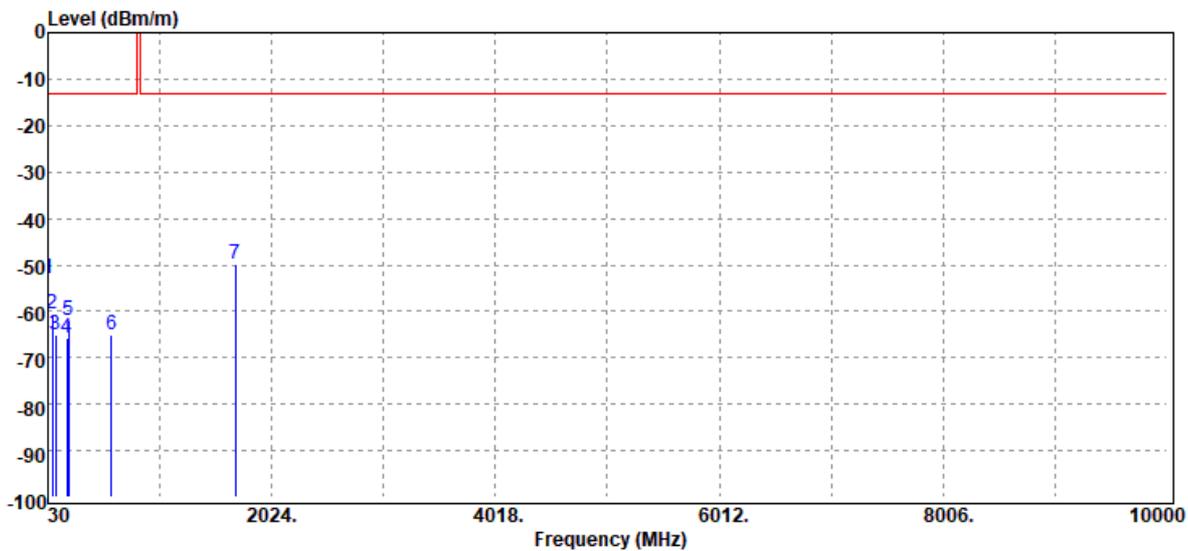
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Report Number :ER/2019/C0117
Operation Mode :LTE B5
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :848.3 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-52.89	-37.28	-14.62	-0.99	-13.00	-39.89
71.71	-60.58	-52.72	-6.72	-1.14	-13.00	-47.58
95.96	-64.89	-62.68	-0.98	-1.23	-13.00	-51.89
197.81	-65.84	-66.95	2.79	-1.68	-13.00	-52.84
216.24	-62.03	-63.68	3.35	-1.70	-13.00	-49.03
594.54	-64.95	-65.36	3.26	-2.85	-13.00	-51.95
1696.60	-49.82	-54.53	9.48	-4.77	-13.00	-36.82

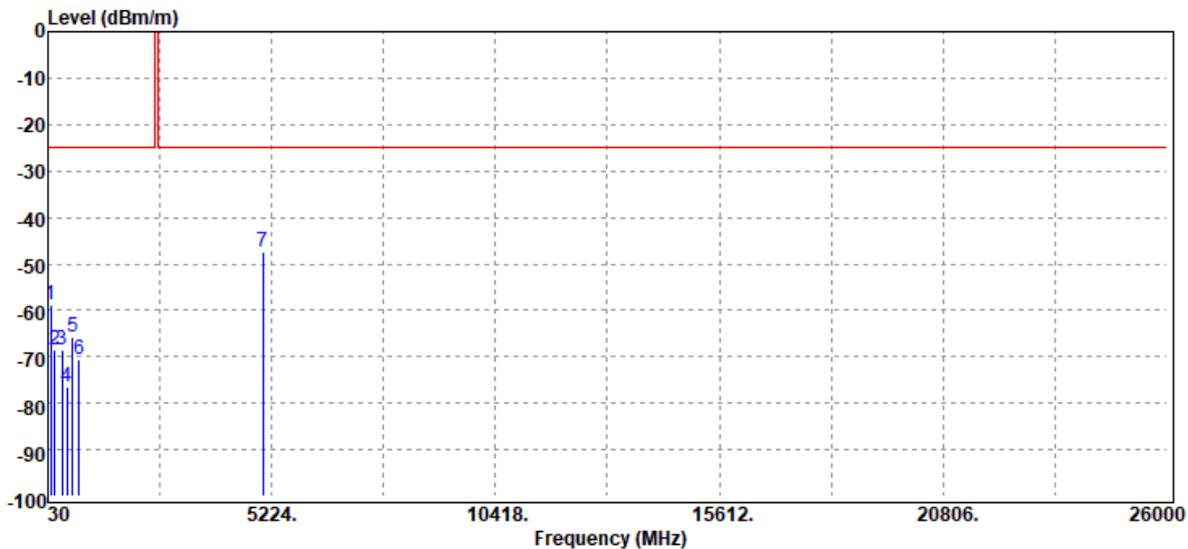
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Report Number :ER/2019/C0117
Operation Mode :LTE B7
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :2505 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.81	-52.17	-5.69	-0.95	-25.00	-33.81
197.81	-68.64	-64.92	-2.34	-1.38	-25.00	-43.64
350.10	-68.46	-65.10	-1.46	-1.90	-25.00	-43.46
469.41	-76.32	-72.56	-1.50	-2.26	-25.00	-51.32
594.54	-65.81	-61.96	-1.75	-2.10	-25.00	-40.81
745.86	-70.70	-66.49	-1.81	-2.40	-25.00	-45.70
5010.00	-47.52	-52.86	12.36	-7.02	-25.00	-22.52

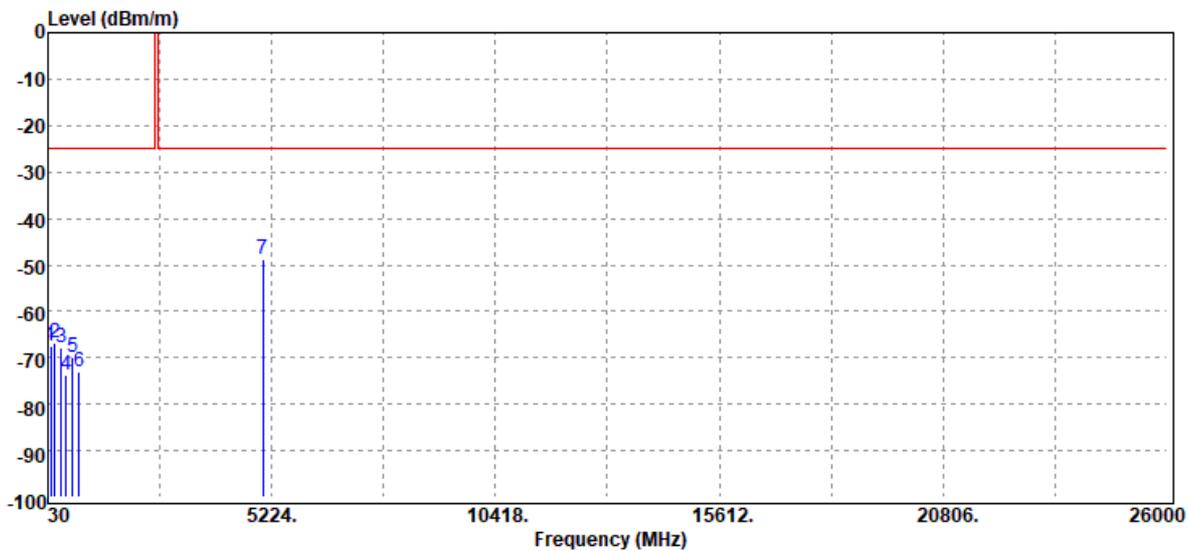
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Report Number :ER/2019/C0117
Operation Mode :LTE B7
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :2505 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.57	-60.93	-5.69	-0.95	-25.00	-42.57
180.35	-66.61	-61.21	-4.15	-1.25	-25.00	-41.61
337.49	-67.75	-64.23	-1.63	-1.89	-25.00	-42.75
456.80	-73.66	-69.96	-1.58	-2.12	-25.00	-48.66
594.54	-70.04	-66.19	-1.75	-2.10	-25.00	-45.04
757.50	-72.94	-68.54	-1.80	-2.60	-25.00	-47.94
5010.00	-48.63	-53.97	12.36	-7.02	-25.00	-23.63

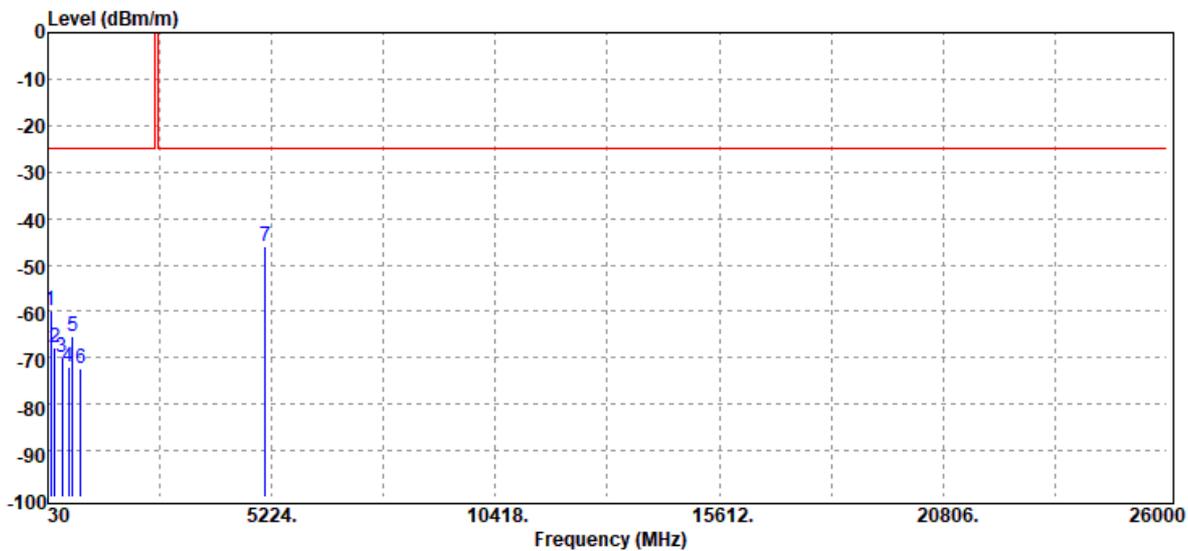
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Report Number :ER/2019/C0117
Operation Mode :LTE B7
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :2535 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.73	-53.09	-5.69	-0.95	-25.00	-34.73
197.81	-67.93	-64.21	-2.34	-1.38	-25.00	-42.93
350.10	-70.00	-66.64	-1.46	-1.90	-25.00	-45.00
516.94	-71.94	-67.91	-1.45	-2.58	-25.00	-46.94
594.54	-65.38	-61.53	-1.75	-2.10	-25.00	-40.38
781.75	-72.46	-68.05	-1.68	-2.73	-25.00	-47.46
5070.00	-46.14	-51.30	12.16	-7.00	-25.00	-21.14

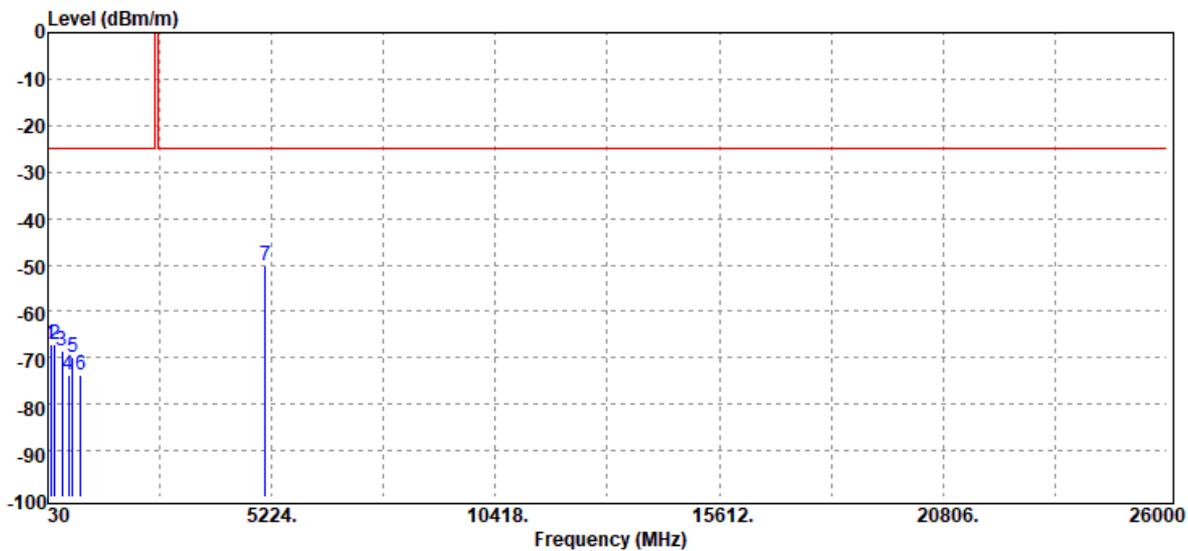
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Report Number :ER/2019/C0117
Operation Mode :LTE B7
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :2535 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.96	-60.32	-5.69	-0.95	-25.00	-41.96
180.35	-67.00	-61.60	-4.15	-1.25	-25.00	-42.00
350.10	-68.52	-65.16	-1.46	-1.90	-25.00	-43.52
516.94	-73.85	-69.82	-1.45	-2.58	-25.00	-48.85
594.54	-70.07	-66.22	-1.75	-2.10	-25.00	-45.07
781.75	-73.64	-69.23	-1.68	-2.73	-25.00	-48.64
5070.00	-50.22	-55.38	12.16	-7.00	-25.00	-25.22

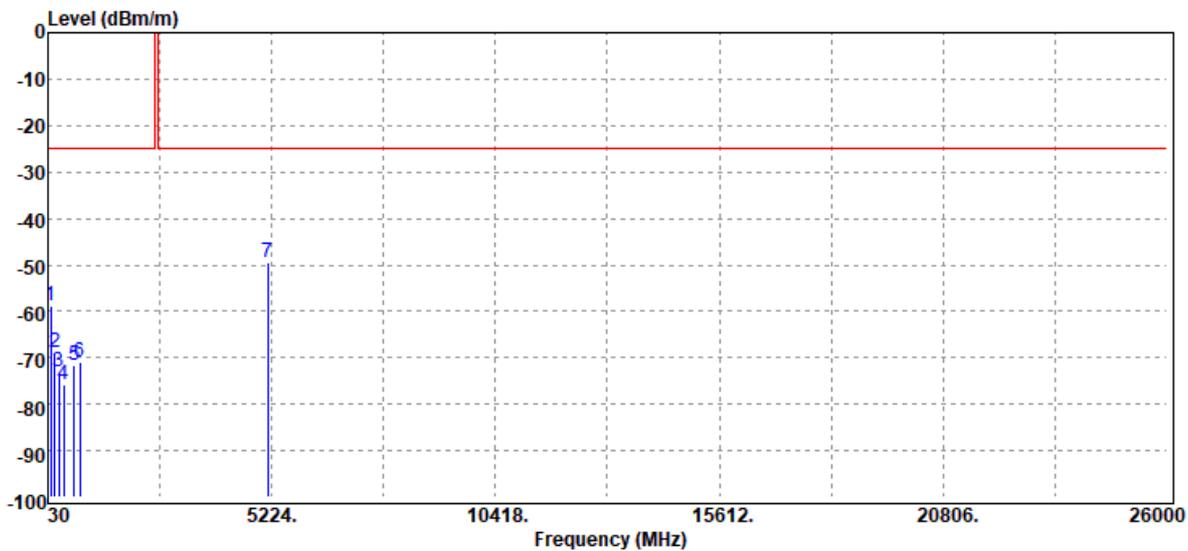
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Report Number :ER/2019/C0117
Operation Mode :LTE B7
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :2565 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.78	-52.14	-5.69	-0.95	-25.00	-33.78
197.81	-68.83	-65.11	-2.34	-1.38	-25.00	-43.83
288.99	-72.89	-69.41	-1.80	-1.68	-25.00	-47.89
403.45	-75.91	-72.39	-1.59	-1.93	-25.00	-50.91
638.19	-71.78	-67.75	-1.54	-2.49	-25.00	-46.78
770.11	-71.01	-66.72	-1.71	-2.58	-25.00	-46.01
5130.00	-49.53	-54.58	12.10	-7.05	-25.00	-24.53

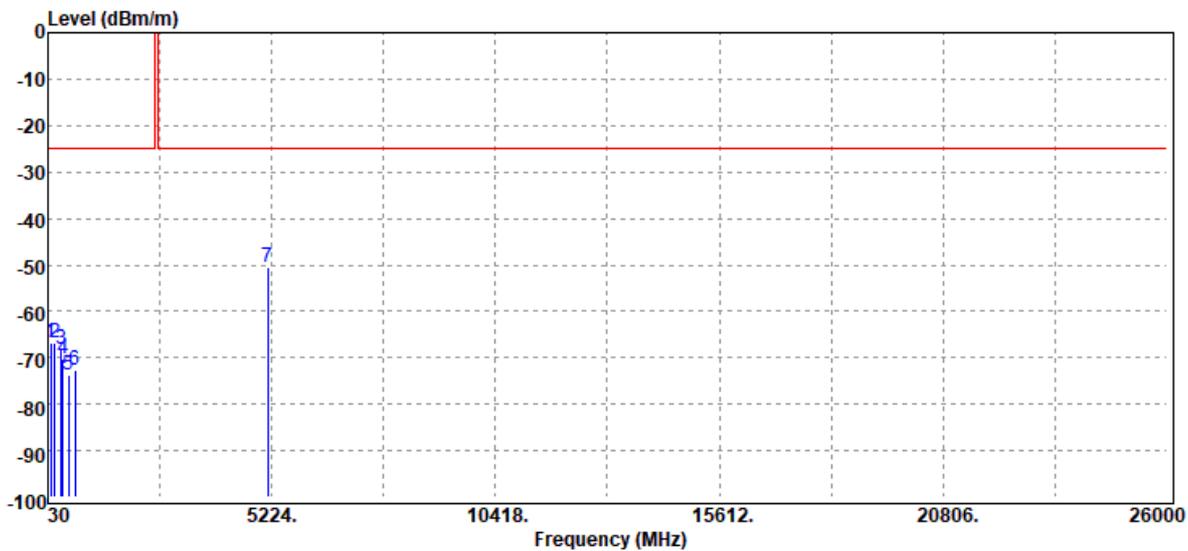
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Report Number :ER/2019/C0117
Operation Mode :LTE B7
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :2565 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.94	-60.30	-5.69	-0.95	-25.00	-41.94
197.81	-66.77	-63.05	-2.34	-1.38	-25.00	-41.77
337.49	-68.02	-64.50	-1.63	-1.89	-25.00	-43.02
379.20	-70.27	-66.71	-1.64	-1.92	-25.00	-45.27
516.94	-73.65	-69.62	-1.45	-2.58	-25.00	-48.65
662.44	-72.66	-68.14	-1.37	-3.15	-25.00	-47.66
5130.00	-50.36	-55.41	12.10	-7.05	-25.00	-25.36

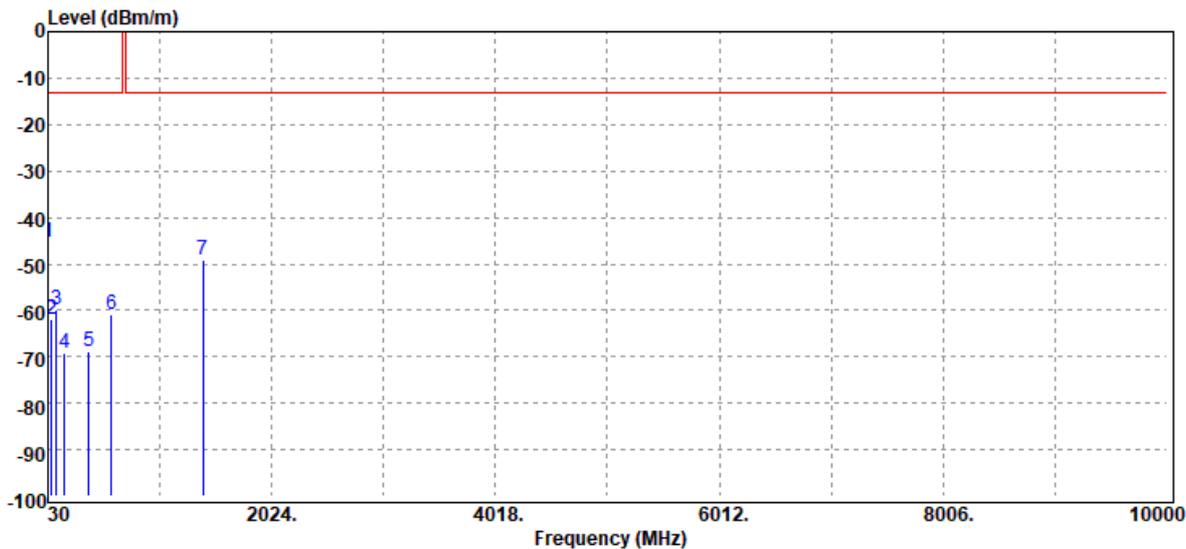
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Report Number :ER/2019/C0117
Operation Mode :LTE B12
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :704.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.18	-29.57	-14.62	-0.99	-13.00	-32.18
61.04	-61.83	-50.83	-9.91	-1.09	-13.00	-48.83
105.66	-59.94	-57.11	-1.57	-1.26	-13.00	-46.94
180.35	-69.18	-68.14	0.63	-1.67	-13.00	-56.18
395.69	-68.76	-70.16	3.72	-2.32	-13.00	-55.76
594.54	-60.96	-61.37	3.26	-2.85	-13.00	-47.96
1408.00	-49.01	-53.14	8.43	-4.30	-13.00	-36.01

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

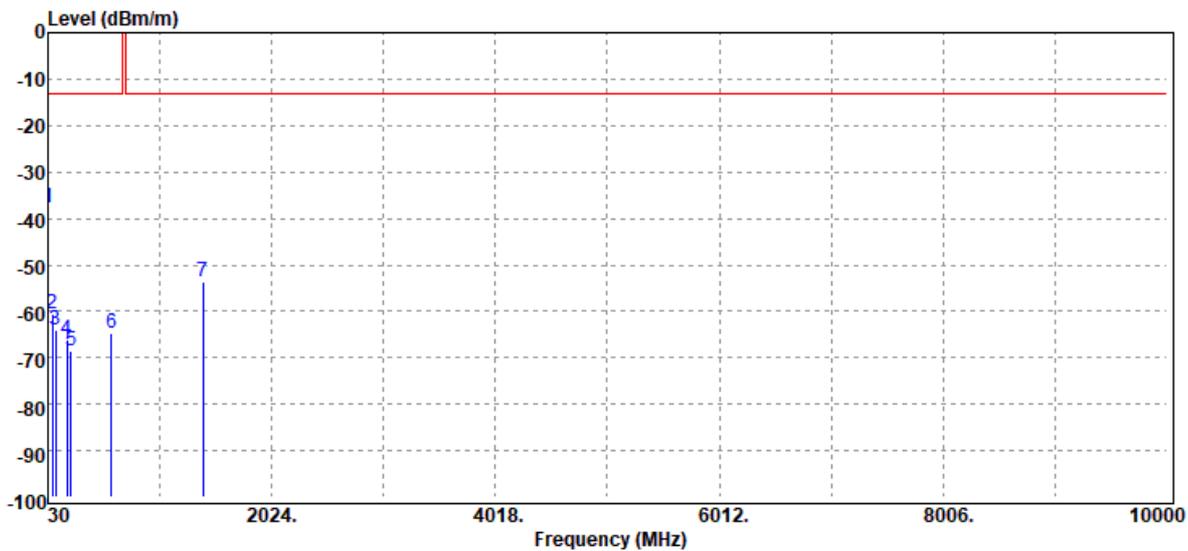
f (886-2) 2298-0488

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Report Number :ER/2019/C0117
Operation Mode :LTE B12
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :704.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-37.87	-22.26	-14.62	-0.99	-13.00	-24.87
71.71	-60.43	-52.57	-6.72	-1.14	-13.00	-47.43
95.96	-64.11	-61.90	-0.98	-1.23	-13.00	-51.11
197.81	-66.06	-67.17	2.79	-1.68	-13.00	-53.06
235.64	-68.41	-69.84	3.19	-1.76	-13.00	-55.41
594.54	-64.67	-65.08	3.26	-2.85	-13.00	-51.67
1408.00	-53.55	-57.68	8.43	-4.30	-13.00	-40.55

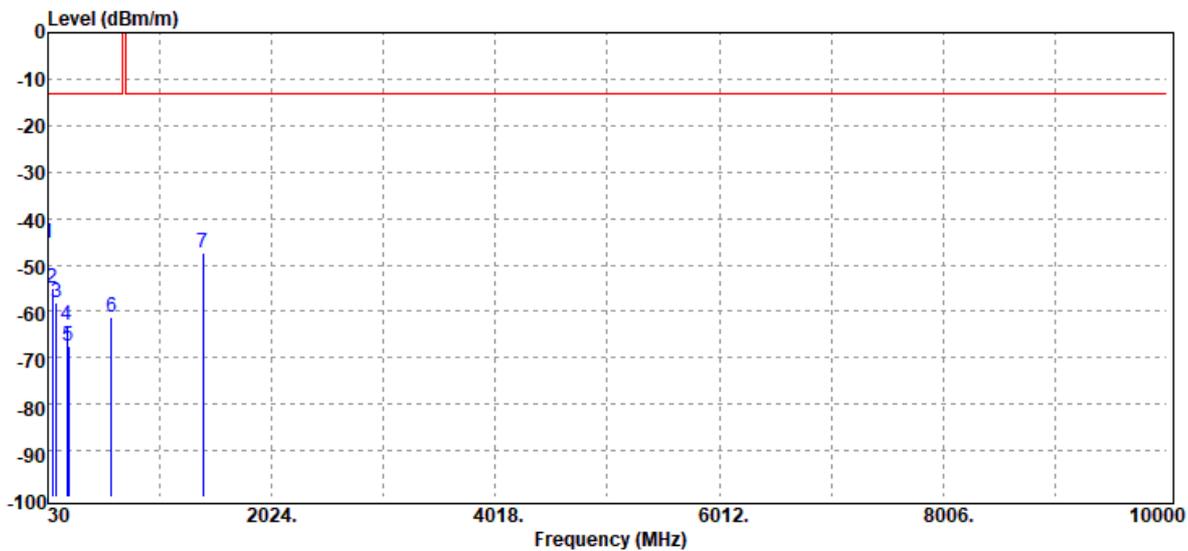
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Report Number :ER/2019/C0117
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :707.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.46	-29.85	-14.62	-0.99	-13.00	-32.46
71.71	-54.88	-47.02	-6.72	-1.14	-13.00	-41.88
105.66	-58.03	-55.20	-1.57	-1.26	-13.00	-45.03
197.81	-63.12	-64.23	2.79	-1.68	-13.00	-50.12
217.21	-67.61	-69.27	3.37	-1.71	-13.00	-54.61
594.54	-61.09	-61.50	3.26	-2.85	-13.00	-48.09
1415.00	-47.33	-51.46	8.45	-4.32	-13.00	-34.33

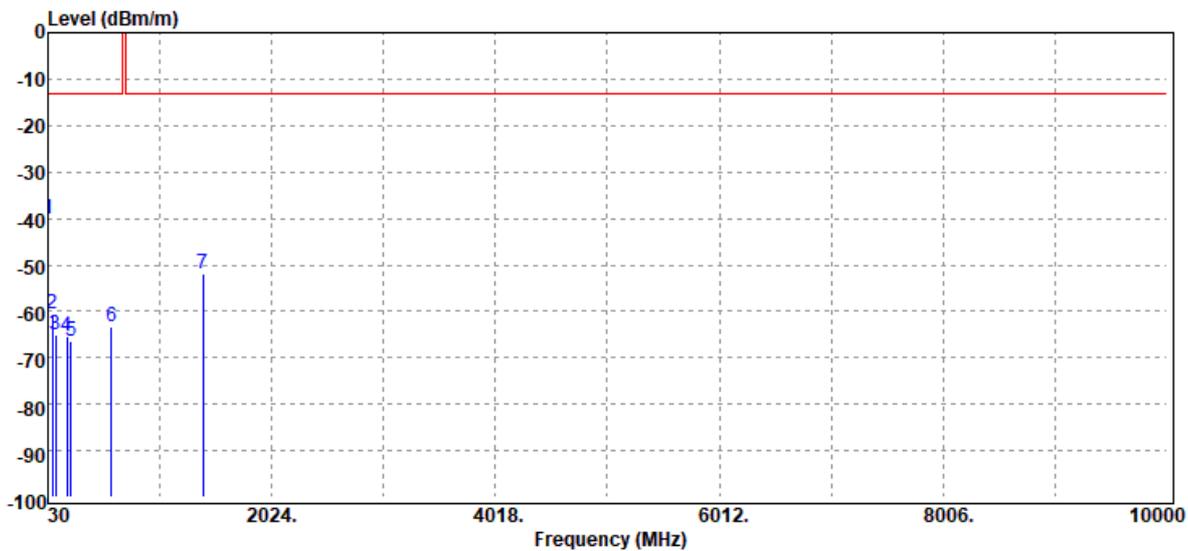
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Report Number :ER/2019/C0117
Operation Mode :LTE B12
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :707.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-40.03	-24.42	-14.62	-0.99	-13.00	-27.03
71.71	-60.40	-52.54	-6.72	-1.14	-13.00	-47.40
95.96	-64.91	-62.70	-0.98	-1.23	-13.00	-51.91
197.81	-65.37	-66.48	2.79	-1.68	-13.00	-52.37
235.64	-66.58	-68.01	3.19	-1.76	-13.00	-53.58
594.54	-63.22	-63.63	3.26	-2.85	-13.00	-50.22
1415.00	-51.80	-55.93	8.45	-4.32	-13.00	-38.80

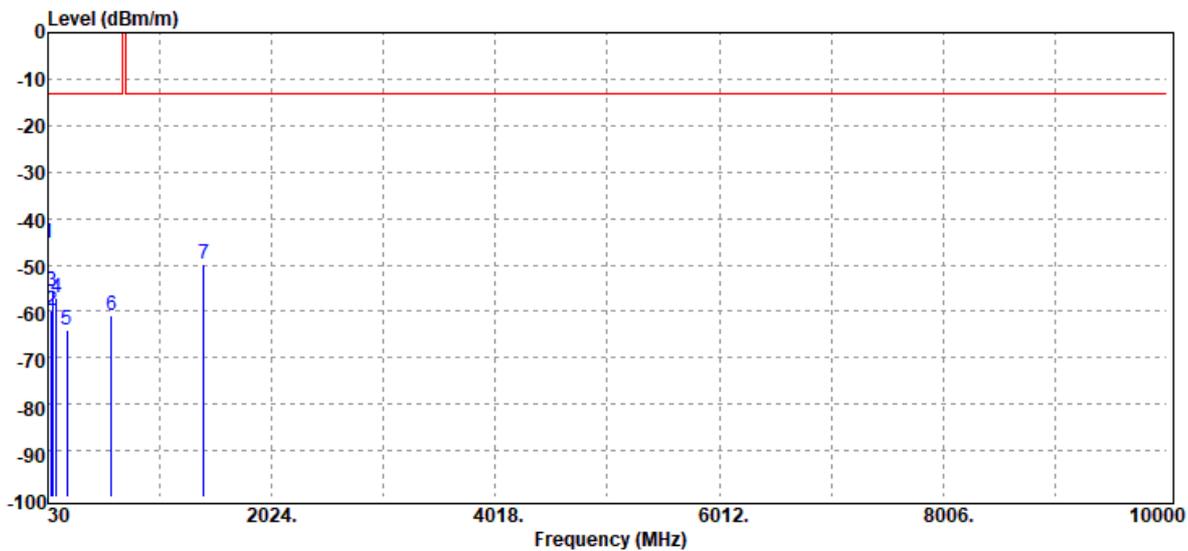
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Report Number :ER/2019/C0117
Operation Mode :LTE B12
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :711.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.43	-29.82	-14.62	-0.99	-13.00	-32.43
61.04	-59.99	-48.99	-9.91	-1.09	-13.00	-46.99
71.71	-55.66	-47.80	-6.72	-1.14	-13.00	-42.66
105.66	-56.97	-54.14	-1.57	-1.26	-13.00	-43.97
197.81	-64.06	-65.17	2.79	-1.68	-13.00	-51.06
594.54	-60.81	-61.22	3.26	-2.85	-13.00	-47.81
1422.00	-49.85	-54.00	8.48	-4.33	-13.00	-36.85

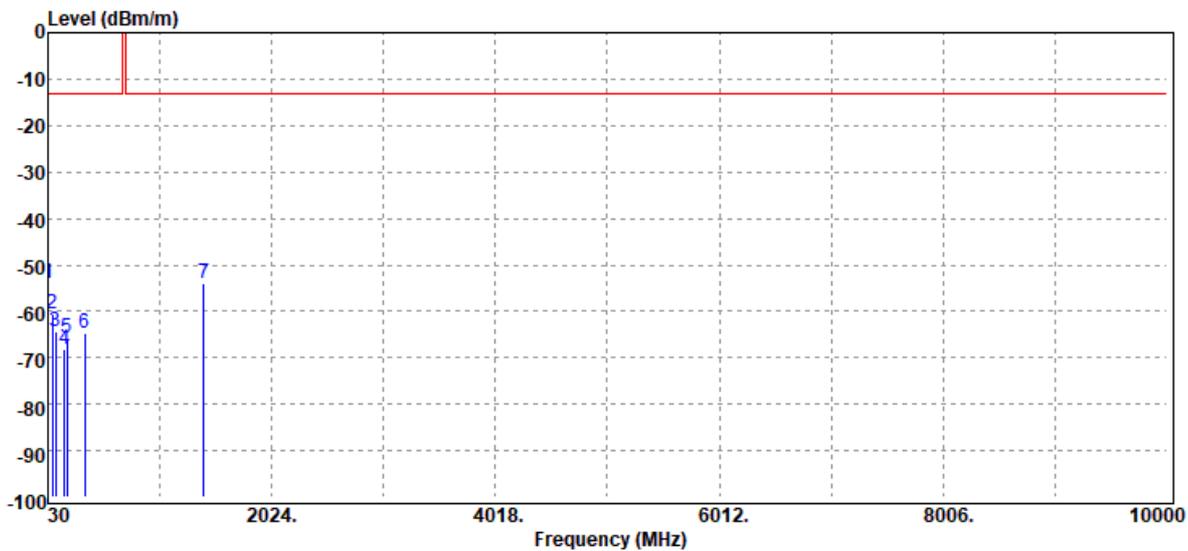
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Report Number :ER/2019/C0117
Operation Mode :LTE B12
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :711.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-54.01	-38.40	-14.62	-0.99	-13.00	-41.01
71.71	-60.47	-52.61	-6.72	-1.14	-13.00	-47.47
95.96	-64.40	-62.19	-0.98	-1.23	-13.00	-51.40
180.35	-68.06	-67.02	0.63	-1.67	-13.00	-55.06
197.81	-65.57	-66.68	2.79	-1.68	-13.00	-52.57
354.95	-64.63	-66.28	3.75	-2.10	-13.00	-51.63
1422.00	-53.97	-58.12	8.48	-4.33	-13.00	-40.97

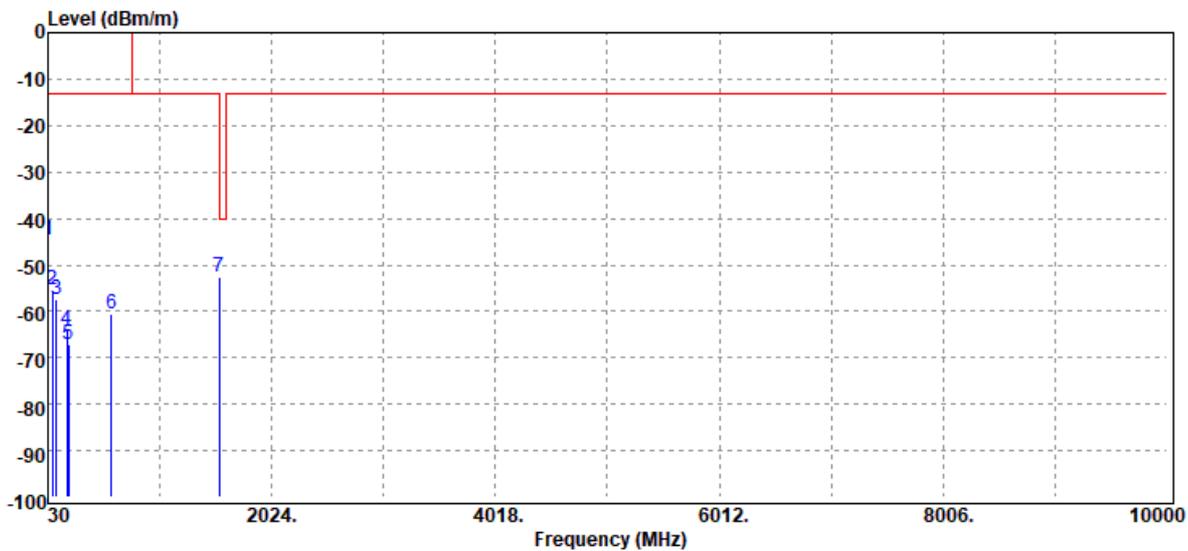
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-44.75	-29.14	-14.62	-0.99	-13.00	-31.75
71.71	-55.45	-47.59	-6.72	-1.14	-13.00	-42.45
105.66	-57.40	-54.57	-1.57	-1.26	-13.00	-44.40
197.81	-64.00	-65.11	2.79	-1.68	-13.00	-51.00
217.21	-67.16	-68.82	3.37	-1.71	-13.00	-54.16
594.54	-60.61	-61.02	3.26	-2.85	-13.00	-47.61
1559.00	-52.46	-56.92	9.01	-4.55	-40.00	-12.46

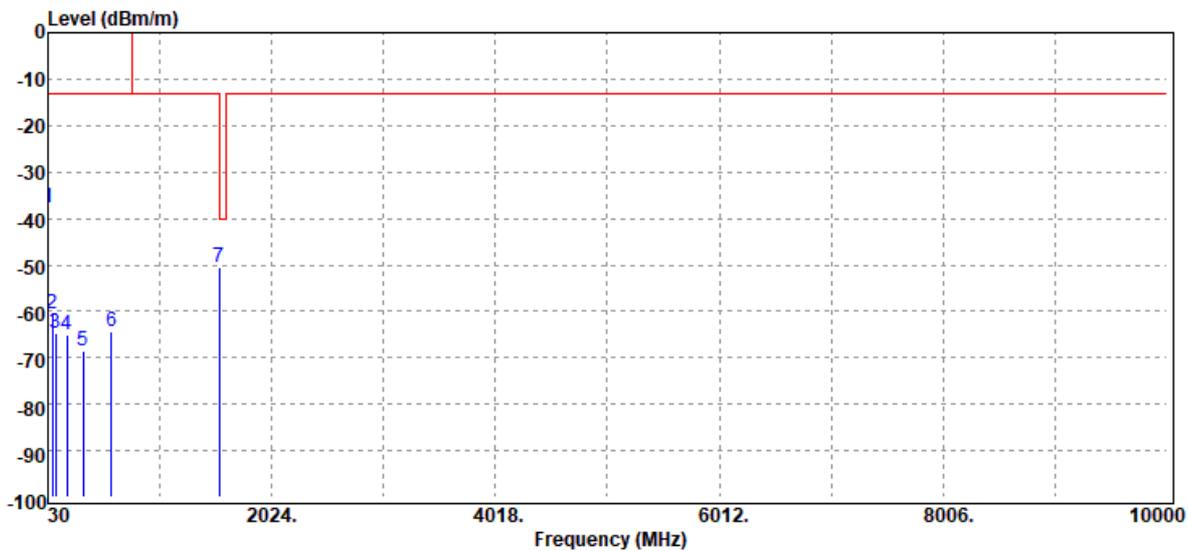
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-37.56	-21.95	-14.62	-0.99	-13.00	-24.56
71.71	-60.39	-52.53	-6.72	-1.14	-13.00	-47.39
95.96	-64.63	-62.42	-0.98	-1.23	-13.00	-51.63
197.81	-65.21	-66.32	2.79	-1.68	-13.00	-52.21
342.34	-68.40	-70.06	3.71	-2.05	-13.00	-55.40
594.54	-64.39	-64.80	3.26	-2.85	-13.00	-51.39
1559.00	-50.45	-54.91	9.01	-4.55	-40.00	-10.45

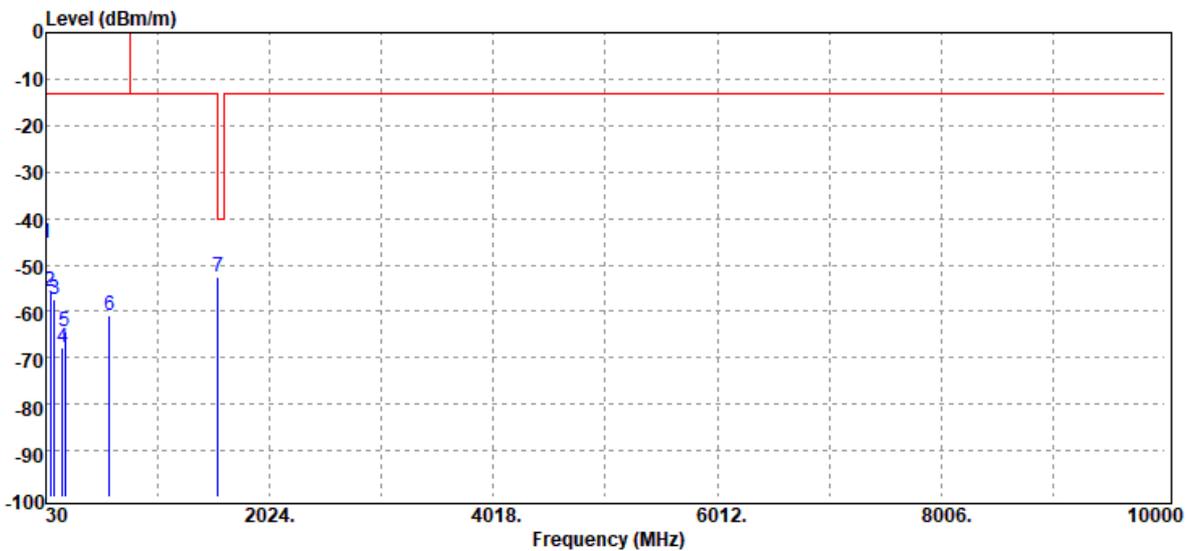
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :782 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.29	-29.68	-14.62	-0.99	-13.00	-32.29
71.71	-55.55	-47.69	-6.72	-1.14	-13.00	-42.55
105.66	-57.52	-54.69	-1.57	-1.26	-13.00	-44.52
180.35	-67.87	-66.83	0.63	-1.67	-13.00	-54.87
197.81	-64.32	-65.43	2.79	-1.68	-13.00	-51.32
594.54	-60.93	-61.34	3.26	-2.85	-13.00	-47.93
1564.00	-52.64	-57.12	9.03	-4.55	-40.00	-12.64

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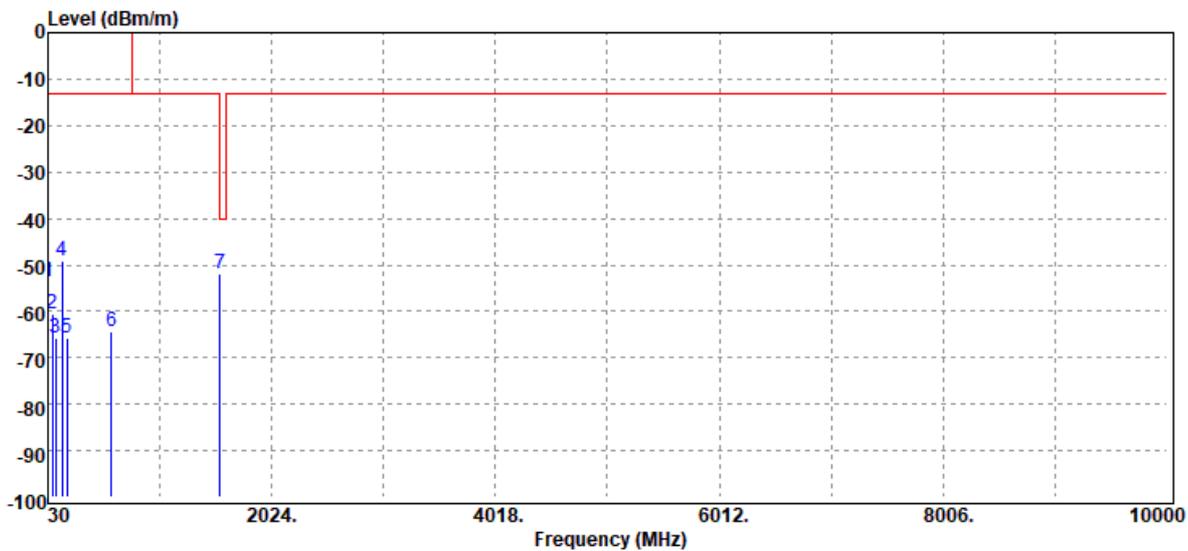
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :782 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-53.68	-38.07	-14.62	-0.99	-13.00	-40.68
71.71	-60.71	-52.85	-6.72	-1.14	-13.00	-47.71
95.96	-65.89	-63.68	-0.98	-1.23	-13.00	-52.89
159.01	-49.10	-45.65	-1.87	-1.58	-13.00	-36.10
197.81	-65.73	-66.84	2.79	-1.68	-13.00	-52.73
594.54	-64.31	-64.72	3.26	-2.85	-13.00	-51.31
1564.00	-51.87	-56.35	9.03	-4.55	-40.00	-11.87

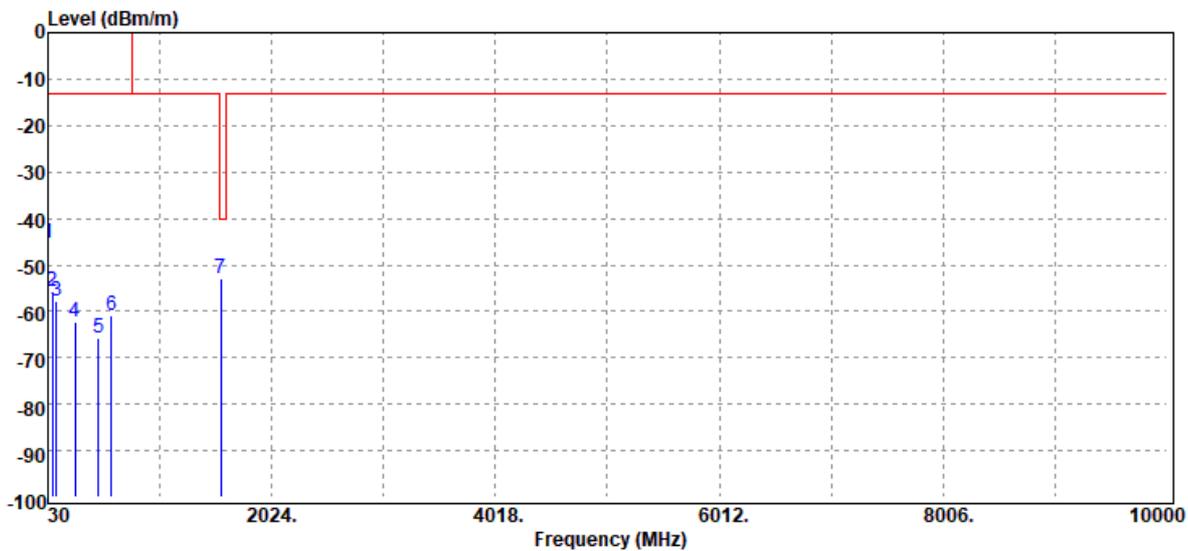
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :784.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-45.30	-29.69	-14.62	-0.99	-13.00	-32.30
71.71	-55.54	-47.68	-6.72	-1.14	-13.00	-42.54
105.66	-57.68	-54.85	-1.57	-1.26	-13.00	-44.68
270.56	-62.20	-63.63	3.30	-1.87	-13.00	-49.20
479.11	-65.91	-67.40	3.81	-2.32	-13.00	-52.91
594.54	-60.84	-61.25	3.26	-2.85	-13.00	-47.84
1569.00	-53.03	-57.52	9.05	-4.56	-40.00	-13.03

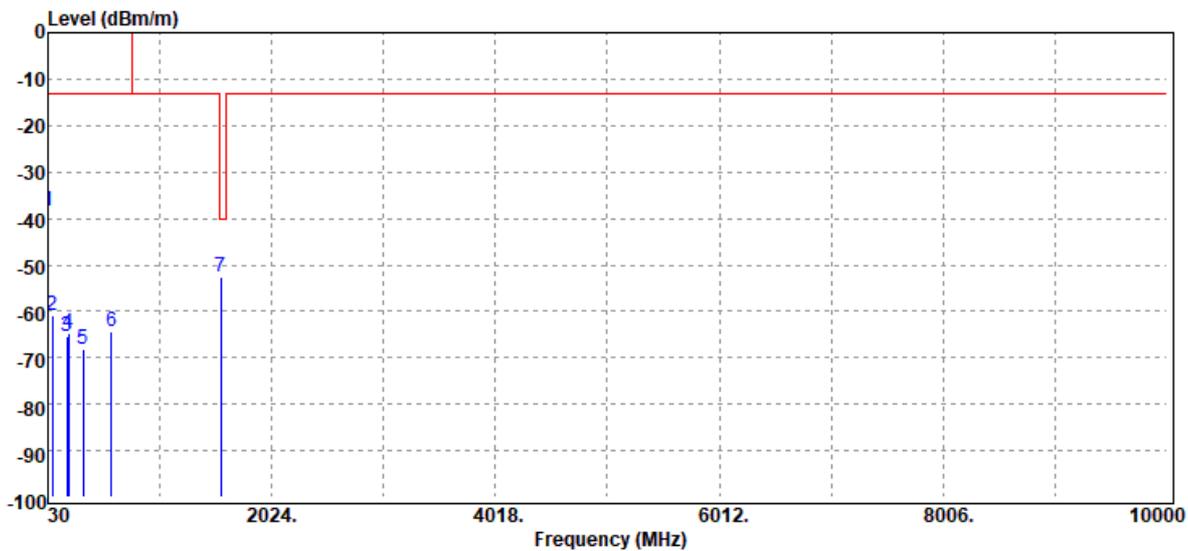
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :784.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-38.28	-22.67	-14.62	-0.99	-13.00	-25.28
71.71	-60.76	-52.90	-6.72	-1.14	-13.00	-47.76
197.81	-65.49	-66.60	2.79	-1.68	-13.00	-52.49
214.30	-64.78	-66.39	3.31	-1.70	-13.00	-51.78
342.34	-68.30	-69.96	3.71	-2.05	-13.00	-55.30
594.54	-64.46	-64.87	3.26	-2.85	-13.00	-51.46
1569.00	-52.72	-57.21	9.05	-4.56	-40.00	-12.72

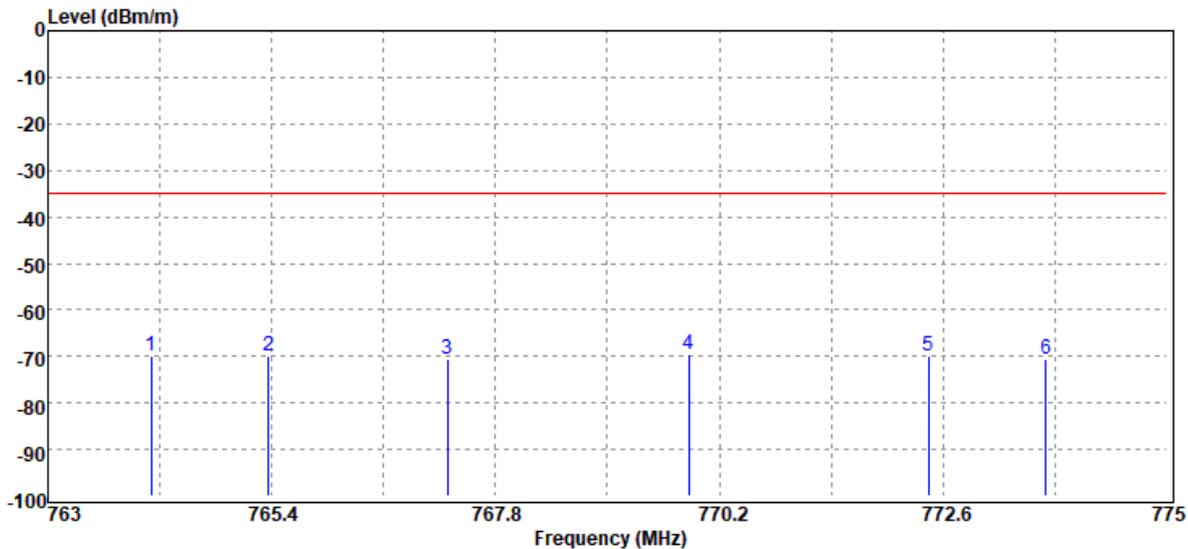
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.10	-69.86	-70.11	3.45	-3.20	-35.00	-34.86
765.36	-69.87	-70.12	3.46	-3.21	-35.00	-34.87
767.28	-70.63	-70.88	3.47	-3.22	-35.00	-35.63
769.88	-69.60	-69.84	3.48	-3.24	-35.00	-34.60
772.44	-69.93	-70.17	3.49	-3.25	-35.00	-34.93
773.70	-70.46	-70.71	3.50	-3.25	-35.00	-35.46

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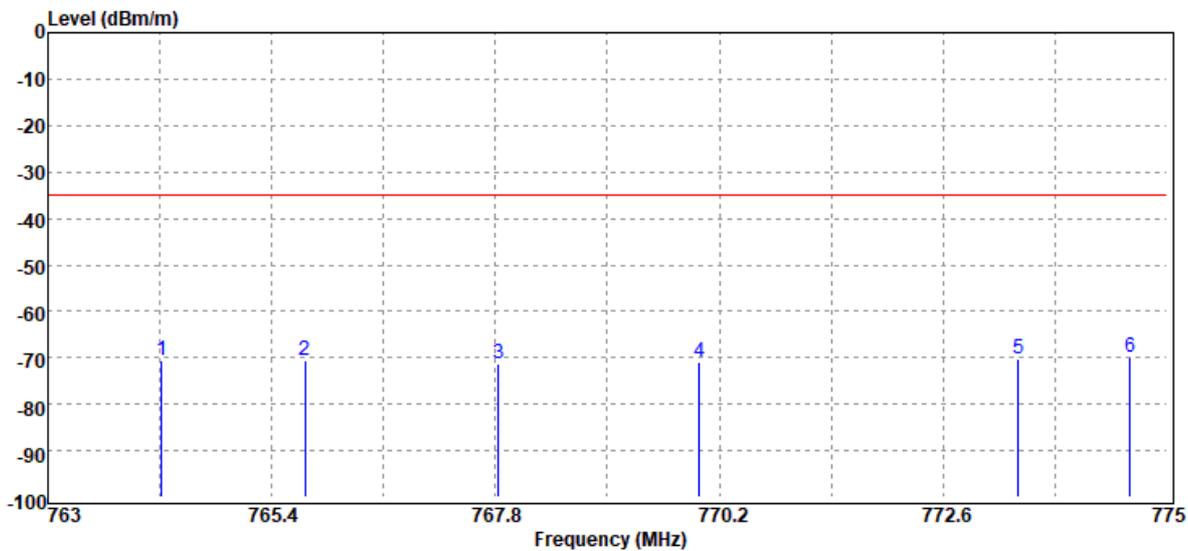
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.22	-70.48	-70.73	3.45	-3.20	-35.00	-35.48
765.76	-70.76	-71.01	3.46	-3.21	-35.00	-35.76
767.84	-71.11	-71.35	3.47	-3.23	-35.00	-36.11
769.98	-70.78	-71.02	3.48	-3.24	-35.00	-35.78
773.40	-70.24	-70.49	3.50	-3.25	-35.00	-35.24
774.60	-69.91	-70.16	3.50	-3.25	-35.00	-34.91

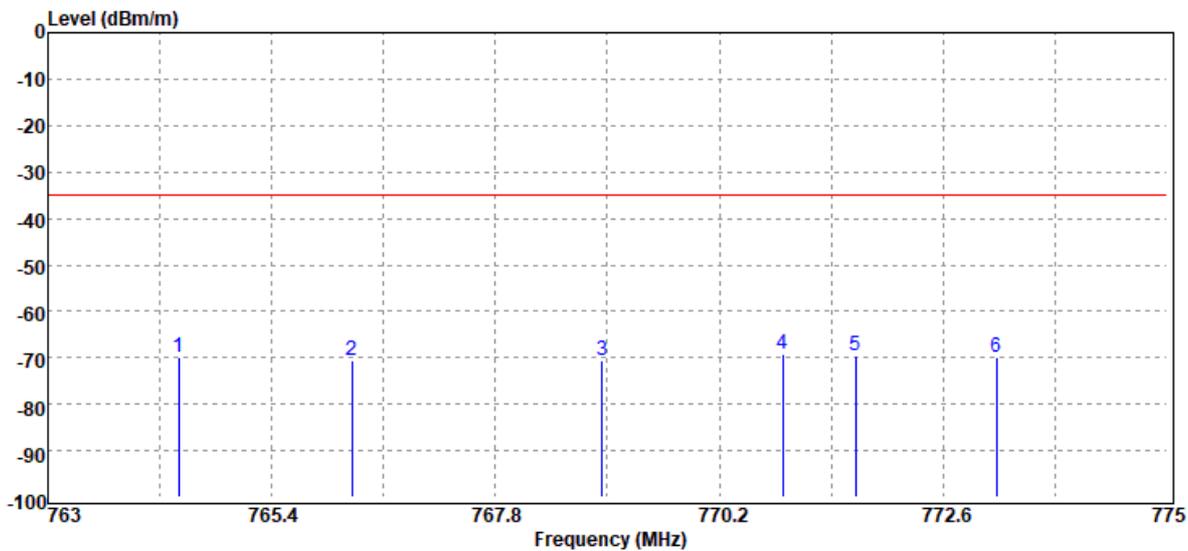
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :782 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.40	-69.74	-69.98	3.45	-3.21	-35.00	-34.74
766.26	-70.73	-70.97	3.46	-3.22	-35.00	-35.73
768.94	-70.68	-70.93	3.48	-3.23	-35.00	-35.68
770.88	-69.20	-69.45	3.49	-3.24	-35.00	-34.20
771.66	-69.64	-69.89	3.49	-3.24	-35.00	-34.64
773.18	-69.93	-70.18	3.50	-3.25	-35.00	-34.93

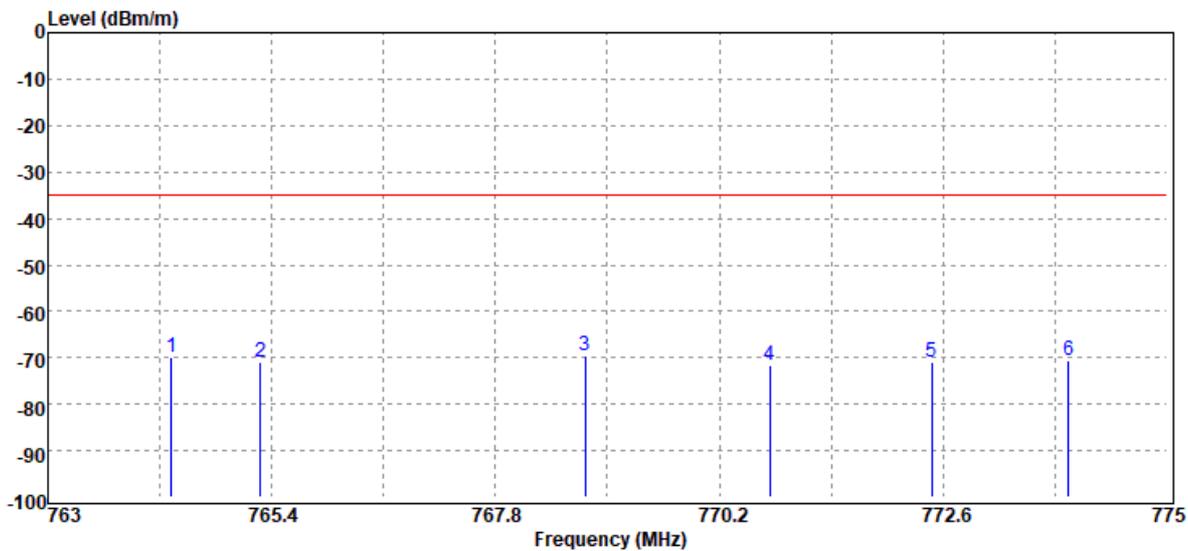
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :782 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.32	-69.81	-70.06	3.45	-3.20	-35.00	-34.81
765.28	-71.00	-71.25	3.46	-3.21	-35.00	-36.00
768.76	-69.67	-69.91	3.47	-3.23	-35.00	-34.67
770.74	-71.68	-71.92	3.48	-3.24	-35.00	-36.68
772.48	-70.96	-71.20	3.49	-3.25	-35.00	-35.96
773.94	-70.60	-70.85	3.50	-3.25	-35.00	-35.60

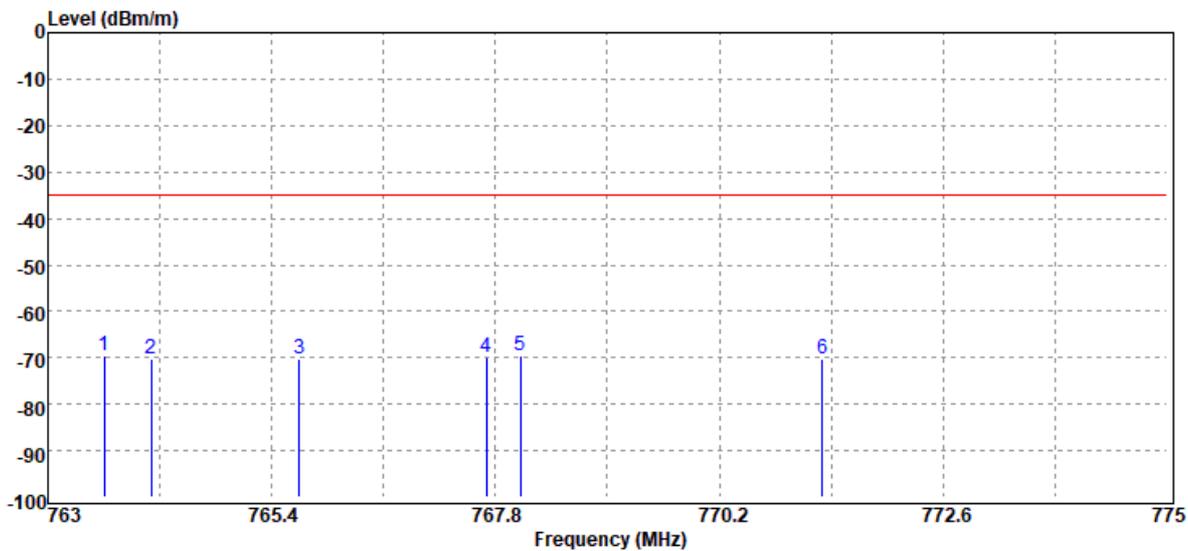
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :784.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.60	-69.72	-69.97	3.45	-3.20	-35.00	-34.72
764.10	-70.26	-70.51	3.45	-3.20	-35.00	-35.26
765.70	-70.14	-70.39	3.46	-3.21	-35.00	-35.14
767.70	-69.93	-70.17	3.47	-3.23	-35.00	-34.93
768.06	-69.68	-69.92	3.47	-3.23	-35.00	-34.68
771.30	-70.34	-70.59	3.49	-3.24	-35.00	-35.34

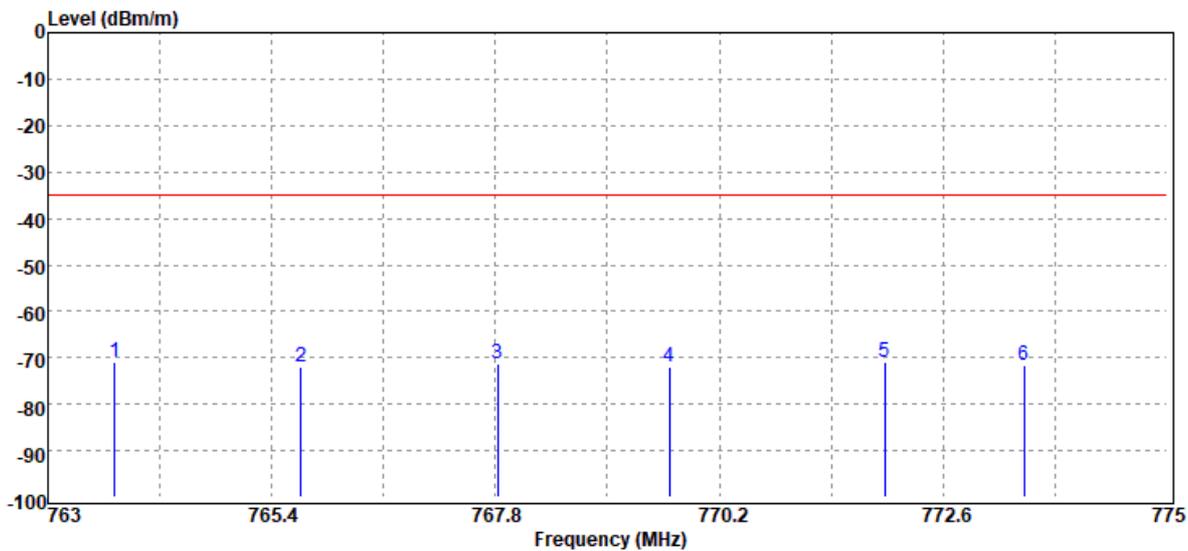
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Operation Mode :LTE B13
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :784.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.72	-70.96	-71.21	3.45	-3.20	-35.00	-35.96
765.71	-71.87	-72.12	3.46	-3.21	-35.00	-36.87
767.82	-71.43	-71.67	3.47	-3.23	-35.00	-36.43
769.66	-72.12	-72.36	3.48	-3.24	-35.00	-37.12
771.98	-70.86	-71.10	3.49	-3.25	-35.00	-35.86
773.46	-71.60	-71.85	3.50	-3.25	-35.00	-36.60

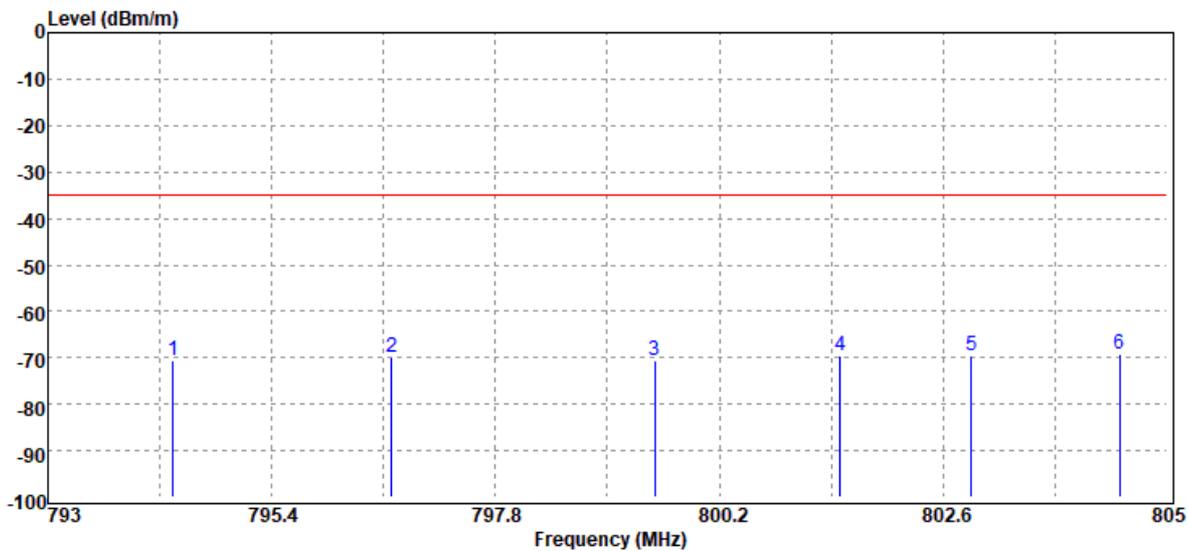
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.34	-70.76	-71.05	3.61	-3.32	-35.00	-35.76
796.68	-69.89	-70.18	3.62	-3.33	-35.00	-34.89
799.50	-70.54	-70.83	3.63	-3.34	-35.00	-35.54
801.50	-69.46	-69.75	3.63	-3.34	-35.00	-34.46
802.90	-69.61	-69.89	3.63	-3.35	-35.00	-34.61
804.50	-69.08	-69.36	3.63	-3.35	-35.00	-34.08

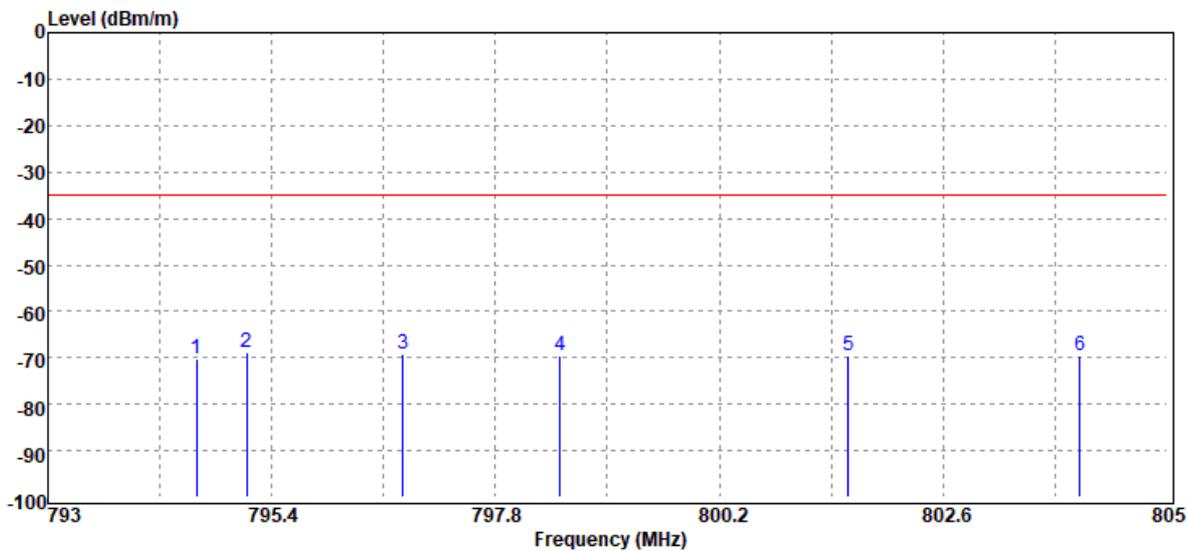
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Operation Mode :LTE B13
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :779.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.60	-70.24	-70.53	3.61	-3.32	-35.00	-35.24
795.14	-68.84	-69.13	3.61	-3.32	-35.00	-33.84
796.80	-69.21	-69.50	3.62	-3.33	-35.00	-34.21
798.50	-69.38	-69.68	3.63	-3.33	-35.00	-34.38
801.58	-69.67	-69.96	3.63	-3.34	-35.00	-34.67
804.06	-69.64	-69.92	3.63	-3.35	-35.00	-34.64

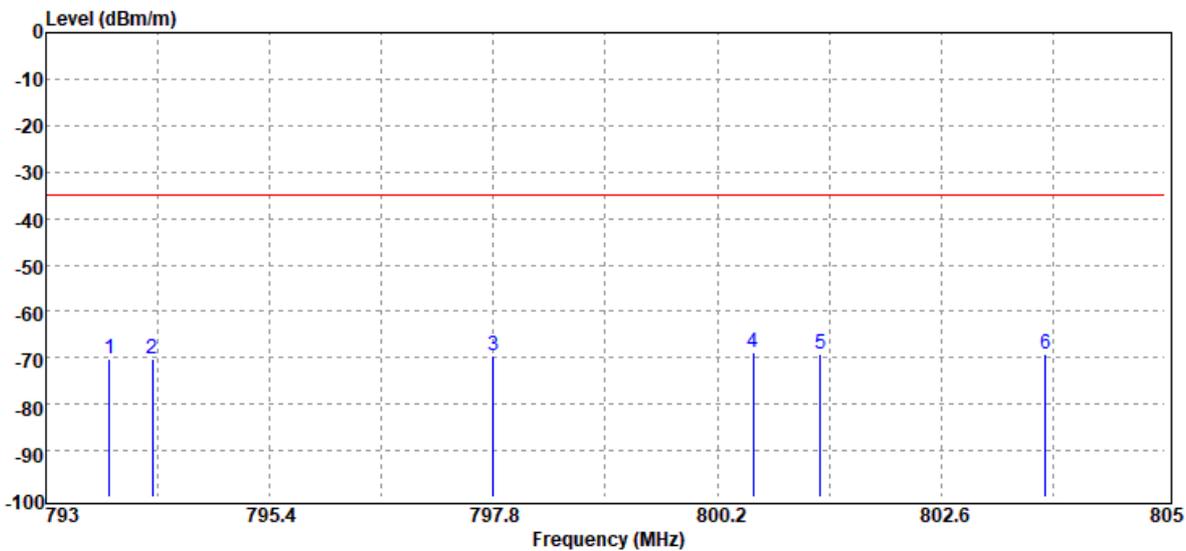
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :782.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.68	-70.22	-70.50	3.60	-3.32	-35.00	-35.22
794.14	-70.19	-70.48	3.61	-3.32	-35.00	-35.19
797.80	-69.53	-69.82	3.62	-3.33	-35.00	-34.53
800.58	-68.83	-69.12	3.63	-3.34	-35.00	-33.83
801.30	-69.31	-69.60	3.63	-3.34	-35.00	-34.31
803.72	-69.34	-69.62	3.63	-3.35	-35.00	-34.34

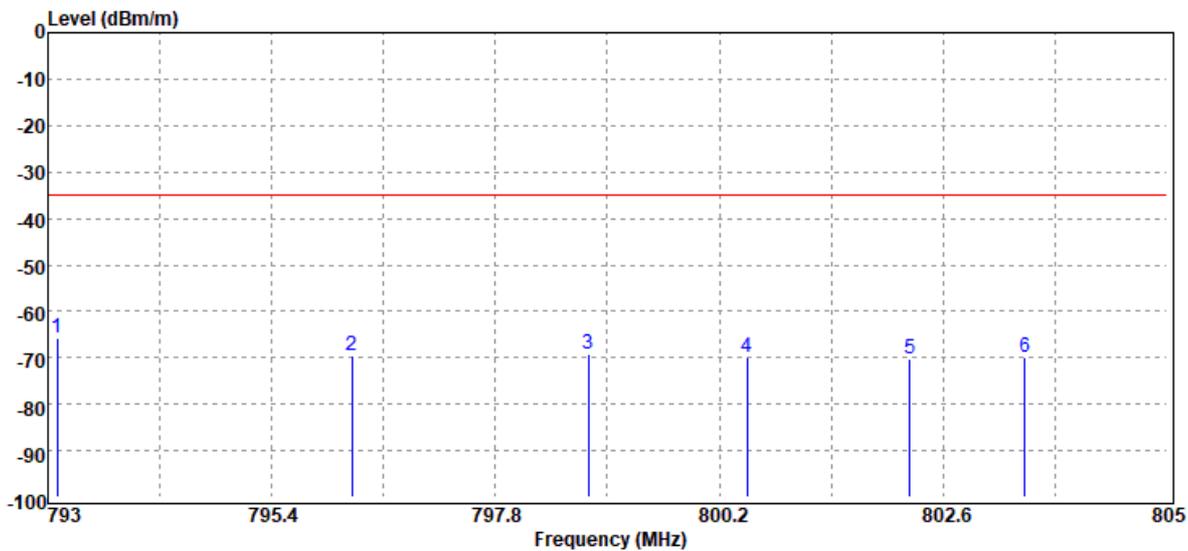
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :782.0 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.10	-65.84	-66.13	3.60	-3.31	-35.00	-30.84
796.26	-69.68	-69.97	3.62	-3.33	-35.00	-34.68
798.80	-69.05	-69.35	3.63	-3.33	-35.00	-34.05
800.50	-69.90	-70.19	3.63	-3.34	-35.00	-34.90
802.24	-70.39	-70.68	3.63	-3.34	-35.00	-35.39
803.48	-69.82	-70.10	3.63	-3.35	-35.00	-34.82

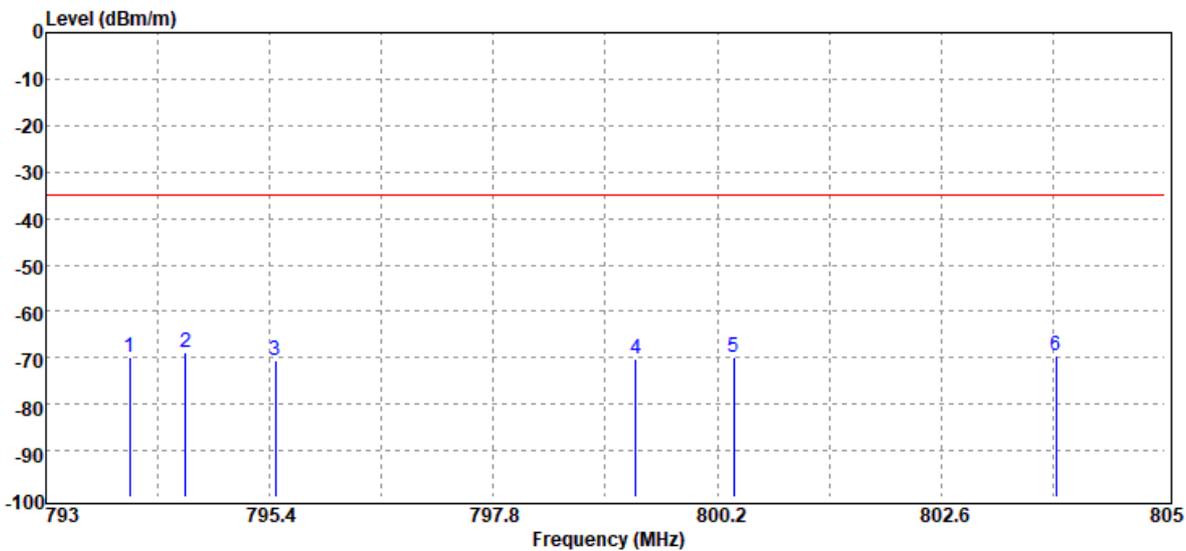
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :784.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.90	-69.86	-70.14	3.60	-3.32	-35.00	-34.86
794.50	-68.86	-69.15	3.61	-3.32	-35.00	-33.86
795.46	-70.43	-70.72	3.61	-3.32	-35.00	-35.43
799.32	-70.41	-70.71	3.63	-3.33	-35.00	-35.41
800.38	-69.79	-70.08	3.63	-3.34	-35.00	-34.79
803.84	-69.55	-69.83	3.63	-3.35	-35.00	-34.55

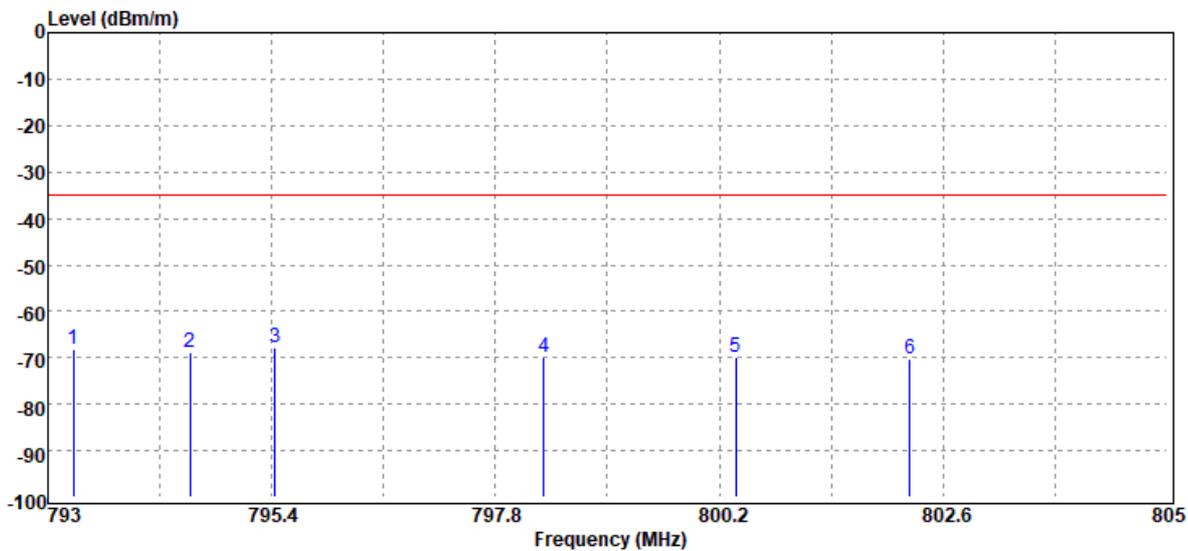
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Report Number :ER/2019/C0117
Operation Mode :LTE B13
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :784.5 MHz

Test Date :2020-01-22
Temp./Humi. :23.7/56
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.28	-68.04	-68.32	3.60	-3.32	-35.00	-33.04
794.52	-68.91	-69.20	3.61	-3.32	-35.00	-33.91
795.44	-67.96	-68.25	3.61	-3.32	-35.00	-32.96
798.32	-69.89	-70.19	3.63	-3.33	-35.00	-34.89
800.38	-69.98	-70.27	3.63	-3.34	-35.00	-34.98
802.24	-70.32	-70.61	3.63	-3.34	-35.00	-35.32

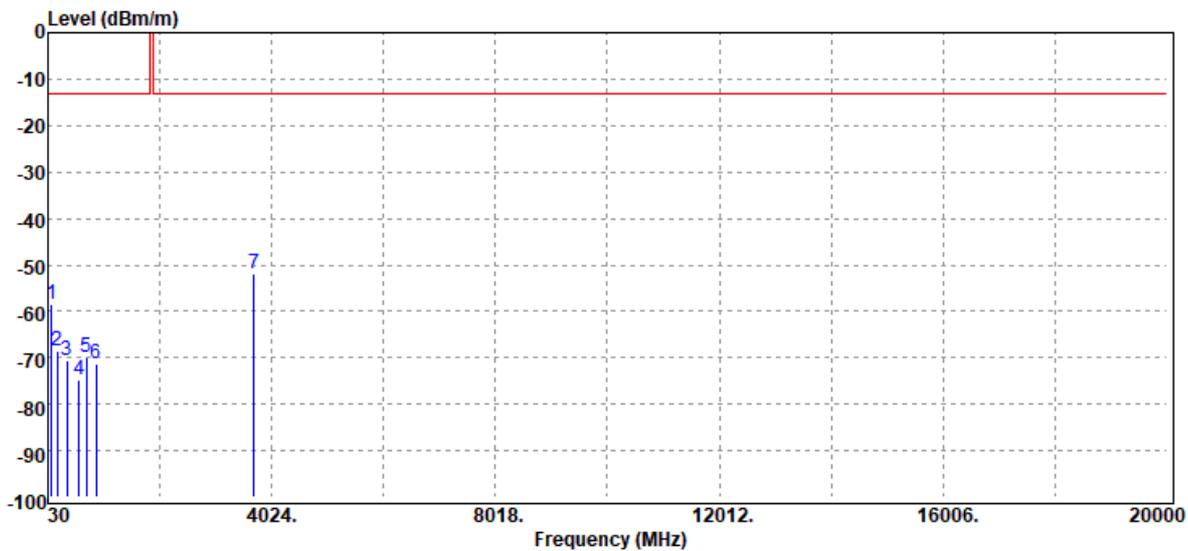
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Report Number :ER/2019/C0117
Operation Mode :LTE B25
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1855 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.48	-51.84	-5.69	-0.95	-13.00	-45.48
197.81	-68.58	-64.86	-2.34	-1.38	-13.00	-55.58
372.41	-70.70	-67.17	-1.62	-1.91	-13.00	-57.70
581.93	-74.79	-71.25	-1.58	-1.96	-13.00	-61.79
721.61	-69.73	-65.97	-1.37	-2.39	-13.00	-56.73
896.21	-71.32	-66.84	-1.71	-2.77	-13.00	-58.32
3710.00	-51.94	-58.37	12.38	-5.95	-13.00	-38.94

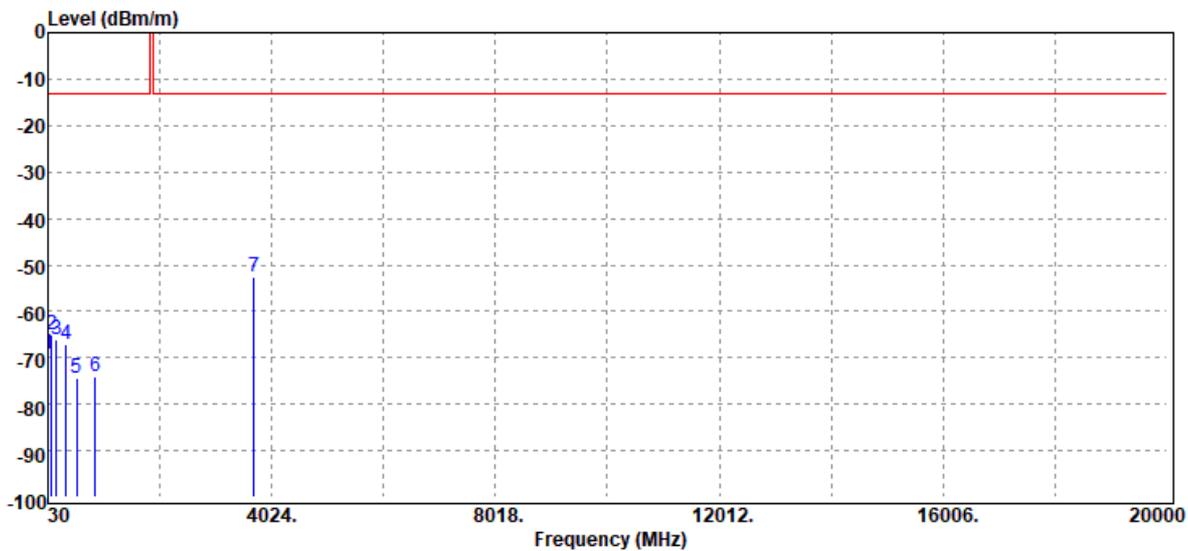
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Report Number :ER/2019/C0117
Operation Mode :LTE B25
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :1855 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-69.16	-48.10	-20.49	-0.57	-13.00	-56.16
95.96	-64.89	-58.25	-5.69	-0.95	-13.00	-51.89
180.35	-66.09	-60.69	-4.15	-1.25	-13.00	-53.09
350.10	-67.27	-63.91	-1.46	-1.90	-13.00	-54.27
541.19	-74.36	-70.81	-1.39	-2.16	-13.00	-61.36
880.69	-74.00	-69.75	-1.74	-2.51	-13.00	-61.00
3710.00	-52.47	-58.90	12.38	-5.95	-13.00	-39.47

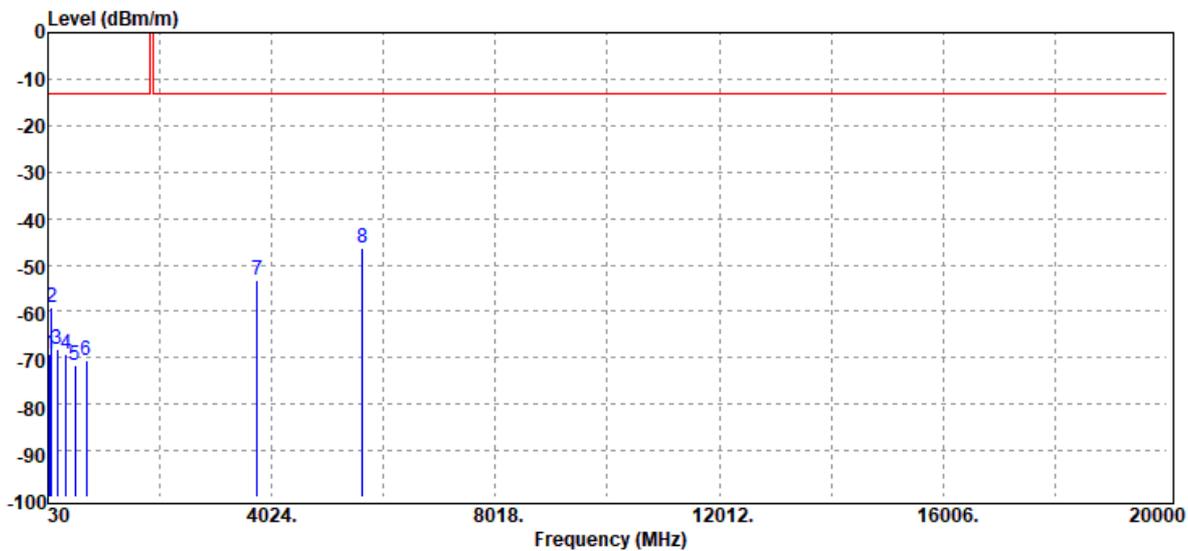
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Report Number :ER/2019/C0117
Operation Mode :LTE B25
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1882.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-69.06	-54.27	-14.03	-0.76	-13.00	-56.06
95.96	-59.06	-52.42	-5.69	-0.95	-13.00	-46.06
197.81	-68.15	-64.43	-2.34	-1.38	-13.00	-55.15
350.10	-69.19	-65.83	-1.46	-1.90	-13.00	-56.19
516.94	-71.78	-67.75	-1.45	-2.58	-13.00	-58.78
721.61	-70.62	-66.86	-1.37	-2.39	-13.00	-57.62
3765.00	-53.12	-59.40	12.30	-6.02	-13.00	-40.12
5647.50	-46.53	-52.33	13.29	-7.49	-13.00	-33.53

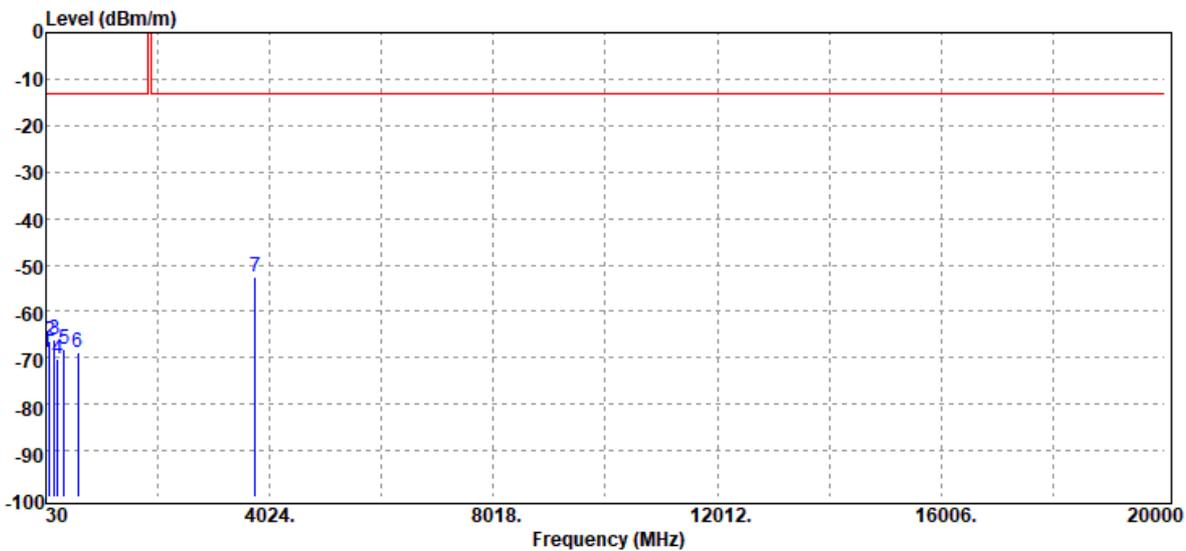
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Report Number :ER/2019/C0117
Operation Mode :LTE B25
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :1882.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-68.88	-47.57	-20.76	-0.55	-13.00	-55.88
95.96	-66.36	-59.72	-5.69	-0.95	-13.00	-53.36
180.35	-65.92	-60.52	-4.15	-1.25	-13.00	-52.92
240.49	-70.15	-66.99	-1.73	-1.43	-13.00	-57.15
350.10	-68.30	-64.94	-1.46	-1.90	-13.00	-55.30
594.54	-69.01	-65.16	-1.75	-2.10	-13.00	-56.01
3765.00	-52.46	-58.74	12.30	-6.02	-13.00	-39.46

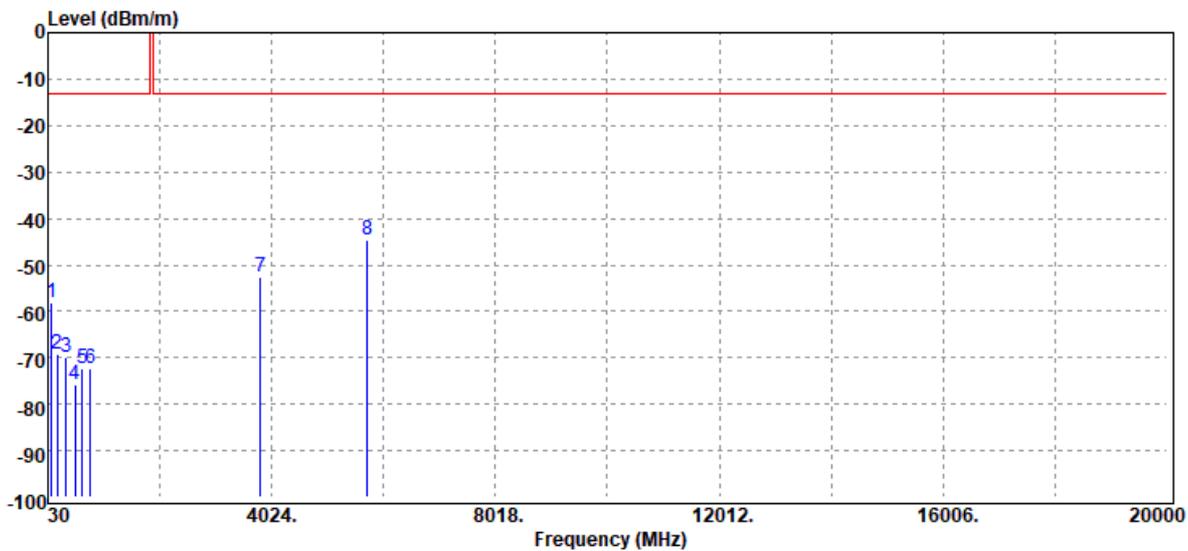
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Report Number :ER/2019/C0117
Operation Mode :LTE B25
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1910 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.09	-51.45	-5.69	-0.95	-13.00	-45.09
197.81	-69.16	-65.44	-2.34	-1.38	-13.00	-56.16
350.10	-70.06	-66.70	-1.46	-1.90	-13.00	-57.06
510.15	-75.92	-71.85	-1.49	-2.58	-13.00	-62.92
648.86	-72.26	-67.92	-1.50	-2.84	-13.00	-59.26
781.75	-72.28	-67.87	-1.68	-2.73	-13.00	-59.28
3820.00	-52.56	-58.71	12.26	-6.11	-13.00	-39.56
5730.00	-44.79	-50.15	12.94	-7.58	-13.00	-31.79

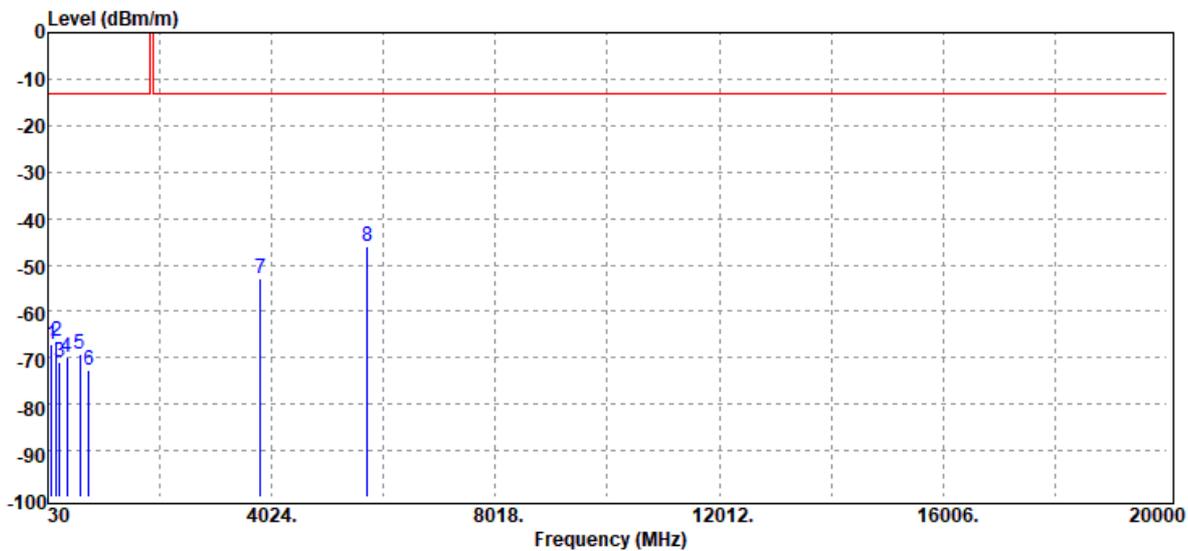
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Report Number :ER/2019/C0117
Operation Mode :LTE B25
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :1910 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.18	-60.54	-5.69	-0.95	-13.00	-54.18
180.35	-66.56	-61.16	-4.15	-1.25	-13.00	-53.56
240.49	-70.92	-67.76	-1.73	-1.43	-13.00	-57.92
372.41	-70.05	-66.52	-1.62	-1.91	-13.00	-57.05
594.54	-69.30	-65.45	-1.75	-2.10	-13.00	-56.30
757.50	-72.74	-68.34	-1.80	-2.60	-13.00	-59.74
3820.00	-52.96	-59.11	12.26	-6.11	-13.00	-39.96
5730.00	-45.92	-51.28	12.94	-7.58	-13.00	-32.92

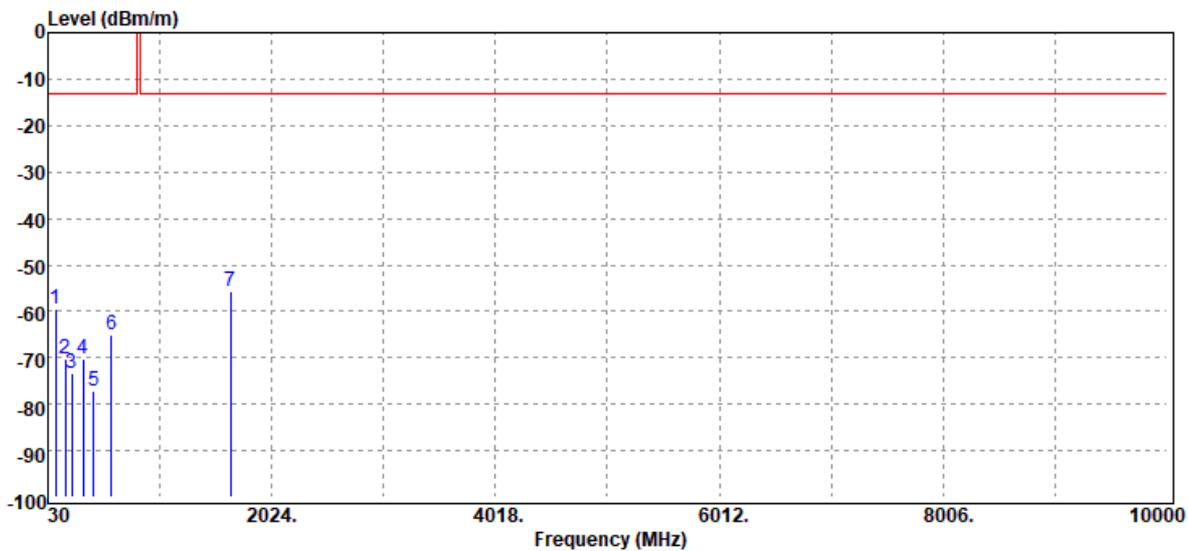
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :829 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.42	-52.78	-5.69	-0.95	-13.00	-46.42
183.26	-70.20	-65.27	-3.65	-1.28	-13.00	-57.20
240.49	-73.18	-70.02	-1.73	-1.43	-13.00	-60.18
343.31	-70.40	-66.92	-1.59	-1.89	-13.00	-57.40
440.31	-77.04	-73.45	-1.76	-1.83	-13.00	-64.04
594.54	-65.19	-61.34	-1.75	-2.10	-13.00	-52.19
1658.00	-55.81	-61.15	9.36	-4.02	-13.00	-42.81

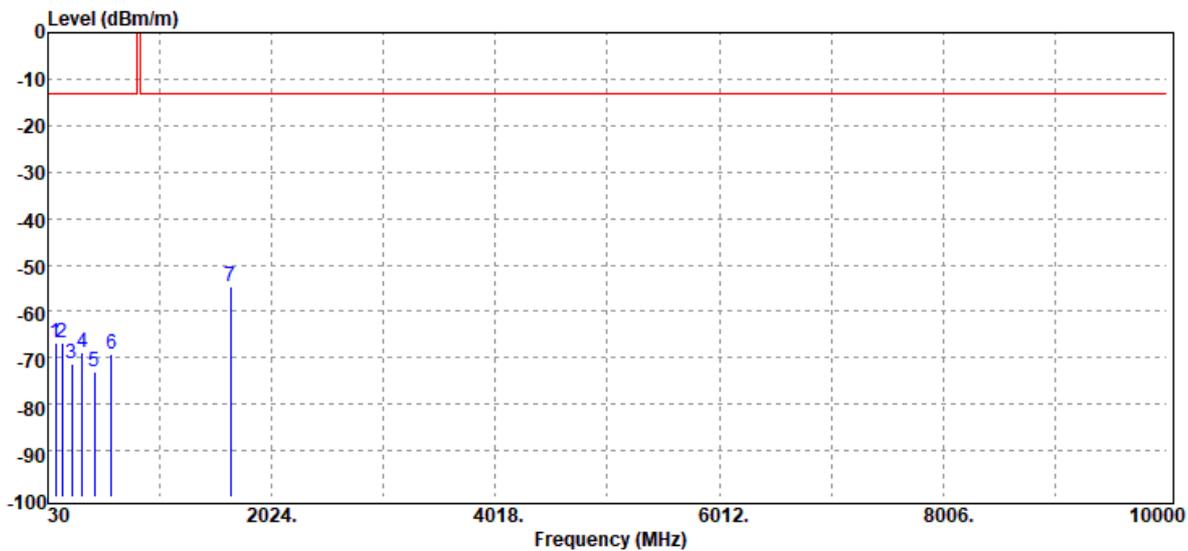
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :829 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.71	-60.07	-5.69	-0.95	-13.00	-53.71
159.01	-66.83	-58.46	-7.01	-1.36	-13.00	-53.83
240.49	-71.22	-68.06	-1.73	-1.43	-13.00	-58.22
337.49	-68.87	-65.35	-1.63	-1.89	-13.00	-55.87
445.16	-73.15	-69.56	-1.67	-1.92	-13.00	-60.15
594.54	-69.30	-65.45	-1.75	-2.10	-13.00	-56.30
1658.00	-54.76	-60.10	9.36	-4.02	-13.00	-41.76

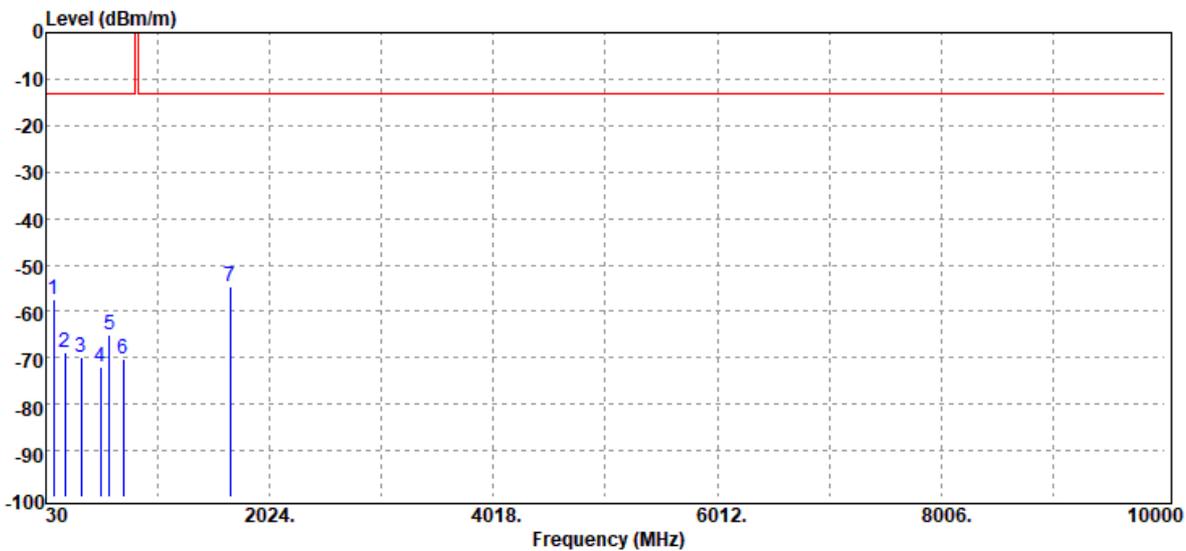
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-57.28	-50.64	-5.69	-0.95	-13.00	-44.28
197.81	-68.69	-64.97	-2.34	-1.38	-13.00	-55.69
343.31	-69.87	-66.39	-1.59	-1.89	-13.00	-56.87
516.94	-71.81	-67.78	-1.45	-2.58	-13.00	-58.81
594.54	-64.90	-61.05	-1.75	-2.10	-13.00	-51.90
721.61	-70.39	-66.63	-1.37	-2.39	-13.00	-57.39
1673.00	-54.66	-60.12	9.49	-4.03	-13.00	-41.66

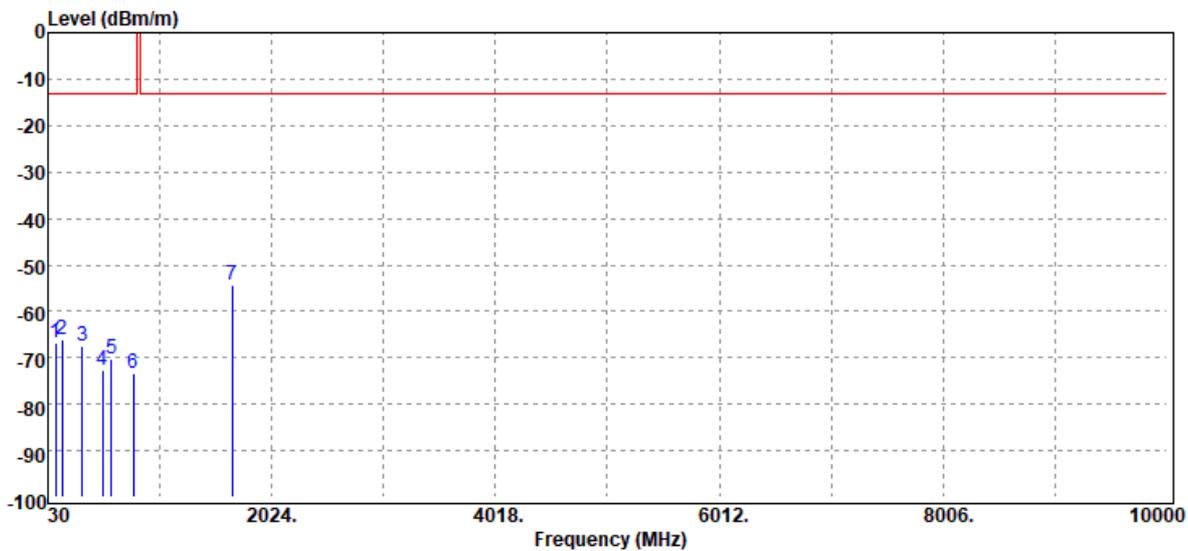
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :836.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.93	-60.29	-5.69	-0.95	-13.00	-53.93
156.10	-66.23	-57.66	-7.26	-1.31	-13.00	-53.23
337.49	-67.60	-64.08	-1.63	-1.89	-13.00	-54.60
516.94	-72.50	-68.47	-1.45	-2.58	-13.00	-59.50
594.54	-70.22	-66.37	-1.75	-2.10	-13.00	-57.22
794.36	-73.42	-68.72	-1.64	-3.06	-13.00	-60.42
1673.00	-54.26	-59.72	9.49	-4.03	-13.00	-41.26

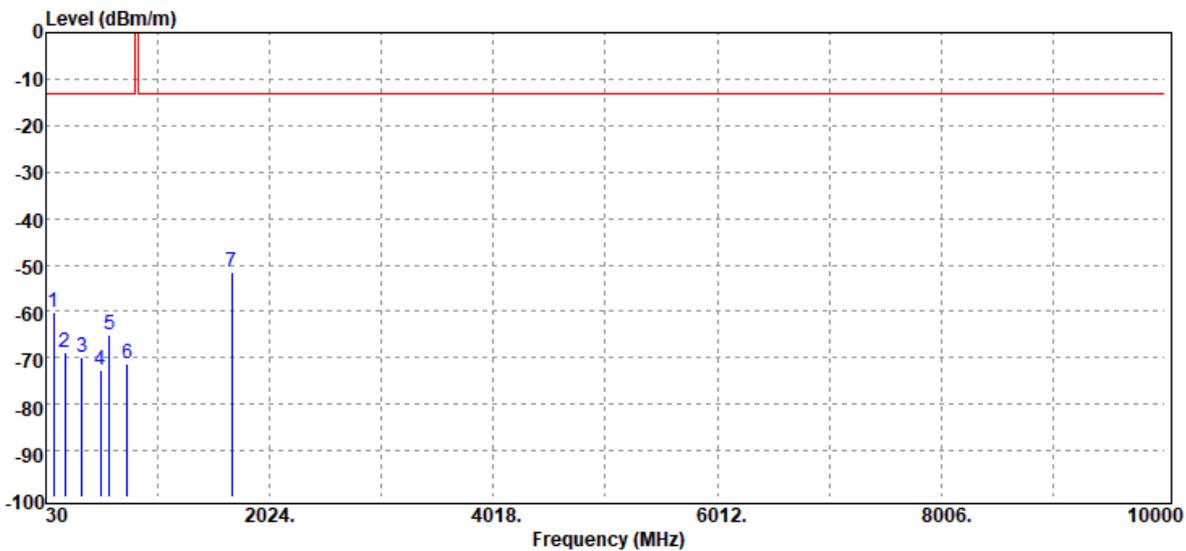
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :844 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-60.14	-53.50	-5.69	-0.95	-13.00	-47.14
197.81	-68.91	-65.19	-2.34	-1.38	-13.00	-55.91
350.10	-69.84	-66.48	-1.46	-1.90	-13.00	-56.84
516.94	-72.56	-68.53	-1.45	-2.58	-13.00	-59.56
594.54	-65.01	-61.16	-1.75	-2.10	-13.00	-52.01
757.50	-71.22	-66.82	-1.80	-2.60	-13.00	-58.22
1688.00	-51.39	-56.95	9.61	-4.05	-13.00	-38.39

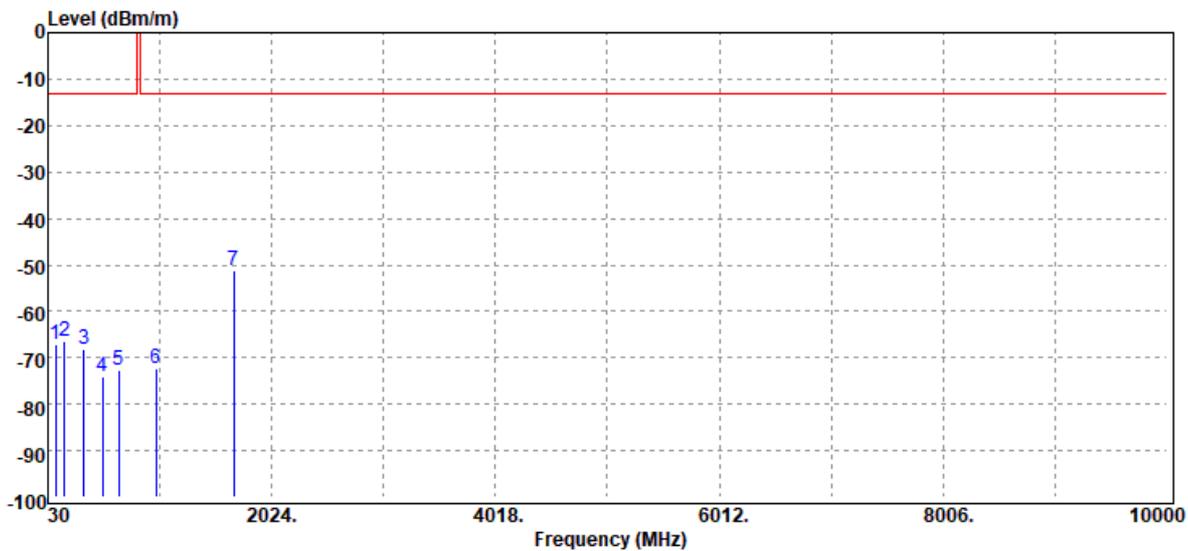
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :844 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.99	-60.35	-5.69	-0.95	-13.00	-53.99
180.35	-66.31	-60.91	-4.15	-1.25	-13.00	-53.31
350.10	-68.13	-64.77	-1.46	-1.90	-13.00	-55.13
516.94	-74.07	-70.04	-1.45	-2.58	-13.00	-61.07
662.44	-72.75	-68.23	-1.37	-3.15	-13.00	-59.75
990.30	-72.31	-67.40	-1.63	-3.28	-13.00	-59.31
1688.00	-51.19	-56.75	9.61	-4.05	-13.00	-38.19

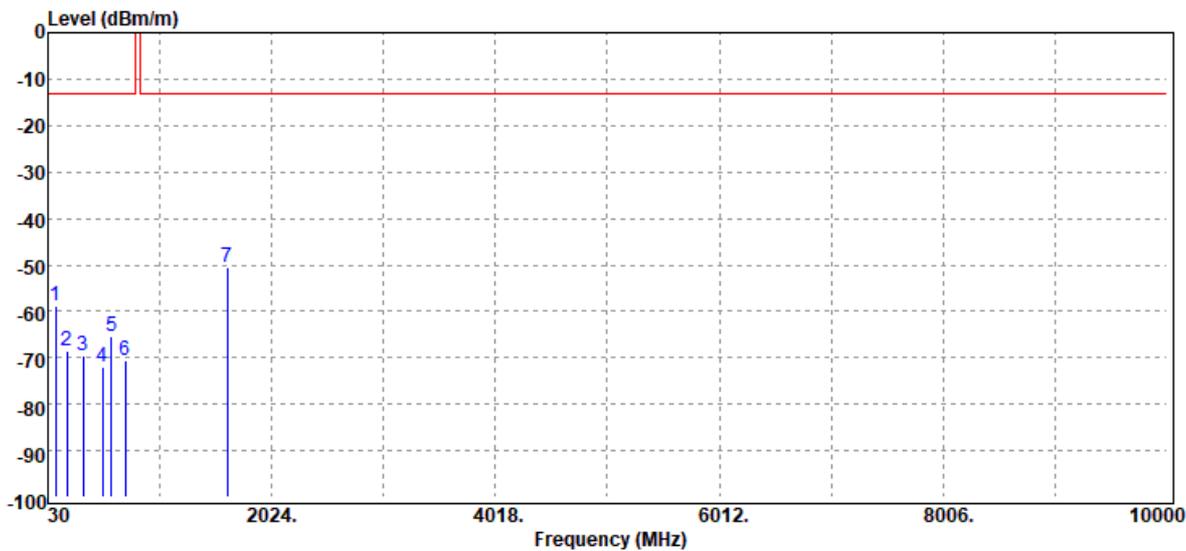
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :815.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.94	-52.30	-5.69	-0.95	-13.00	-45.94
197.81	-68.57	-64.85	-2.34	-1.38	-13.00	-55.57
343.31	-69.49	-66.01	-1.59	-1.89	-13.00	-56.49
516.94	-72.09	-68.06	-1.45	-2.58	-13.00	-59.09
594.54	-65.35	-61.50	-1.75	-2.10	-13.00	-52.35
721.61	-70.57	-66.81	-1.37	-2.39	-13.00	-57.57
1631.00	-50.63	-55.90	9.26	-3.99	-13.00	-37.63

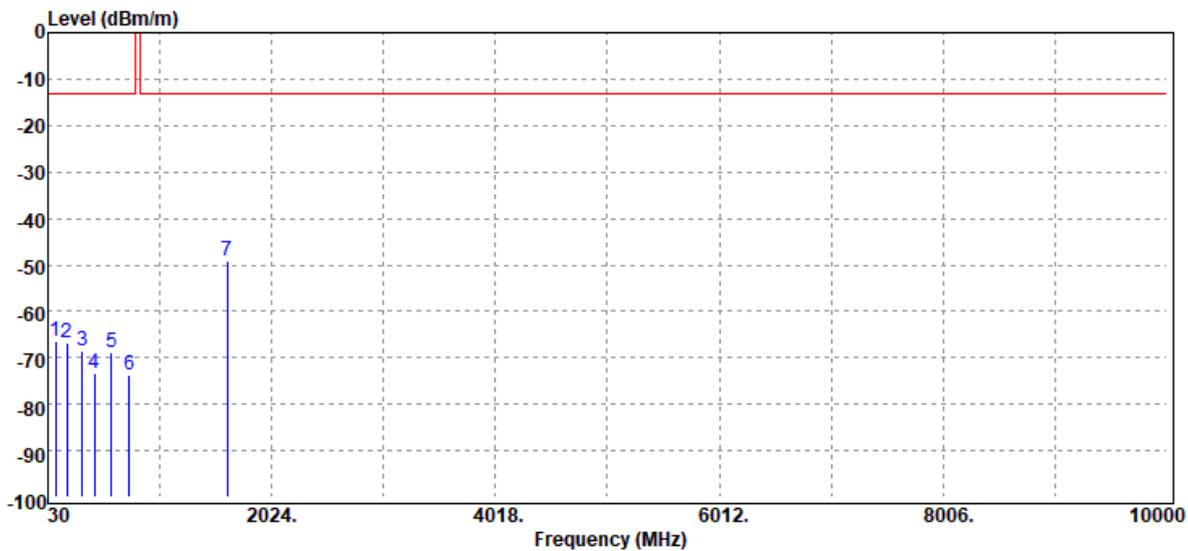
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :815.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.54	-59.90	-5.69	-0.95	-13.00	-53.54
197.81	-66.85	-63.13	-2.34	-1.38	-13.00	-53.85
337.49	-68.34	-64.82	-1.63	-1.89	-13.00	-55.34
445.16	-73.27	-69.68	-1.67	-1.92	-13.00	-60.27
594.54	-68.98	-65.13	-1.75	-2.10	-13.00	-55.98
757.50	-73.81	-69.41	-1.80	-2.60	-13.00	-60.81
1631.00	-49.09	-54.36	9.26	-3.99	-13.00	-36.09

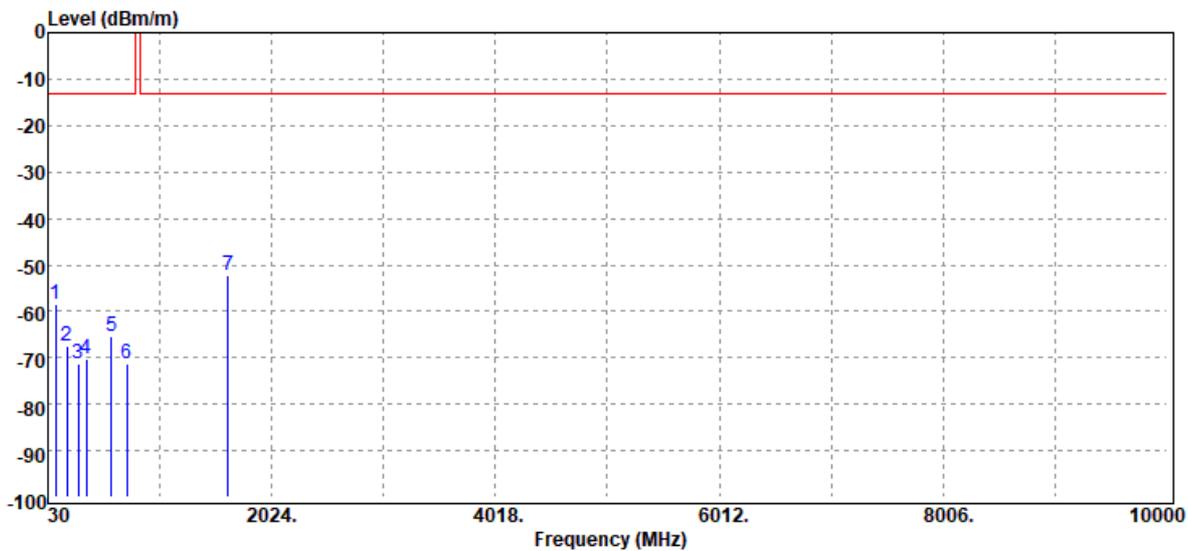
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :819 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.50	-51.86	-5.69	-0.95	-13.00	-45.50
197.81	-67.41	-63.69	-2.34	-1.38	-13.00	-54.41
299.66	-71.20	-67.81	-1.70	-1.69	-13.00	-58.20
372.41	-70.12	-66.59	-1.62	-1.91	-13.00	-57.12
594.54	-65.50	-61.65	-1.75	-2.10	-13.00	-52.50
733.25	-71.12	-67.41	-1.50	-2.21	-13.00	-58.12
1638.00	-52.36	-57.64	9.28	-4.00	-13.00	-39.36

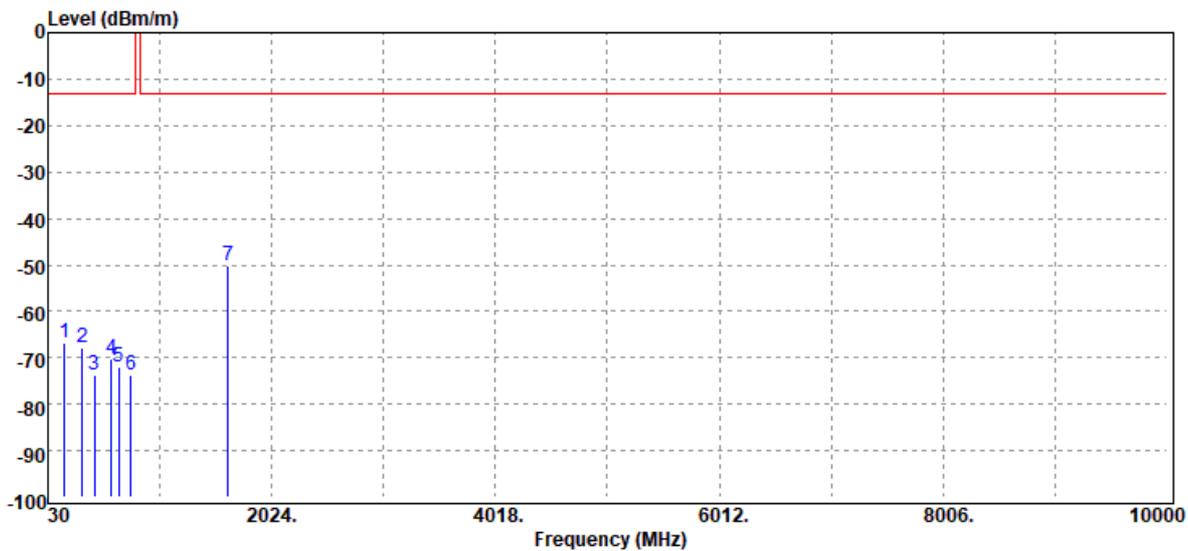
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :819 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
180.35	-66.87	-61.47	-4.15	-1.25	-13.00	-53.87
337.49	-67.82	-64.30	-1.63	-1.89	-13.00	-54.82
445.16	-73.53	-69.94	-1.67	-1.92	-13.00	-60.53
594.54	-70.40	-66.55	-1.75	-2.10	-13.00	-57.40
662.44	-71.86	-67.34	-1.37	-3.15	-13.00	-58.86
770.11	-73.75	-69.46	-1.71	-2.58	-13.00	-60.75
1638.00	-50.18	-55.46	9.28	-4.00	-13.00	-37.18

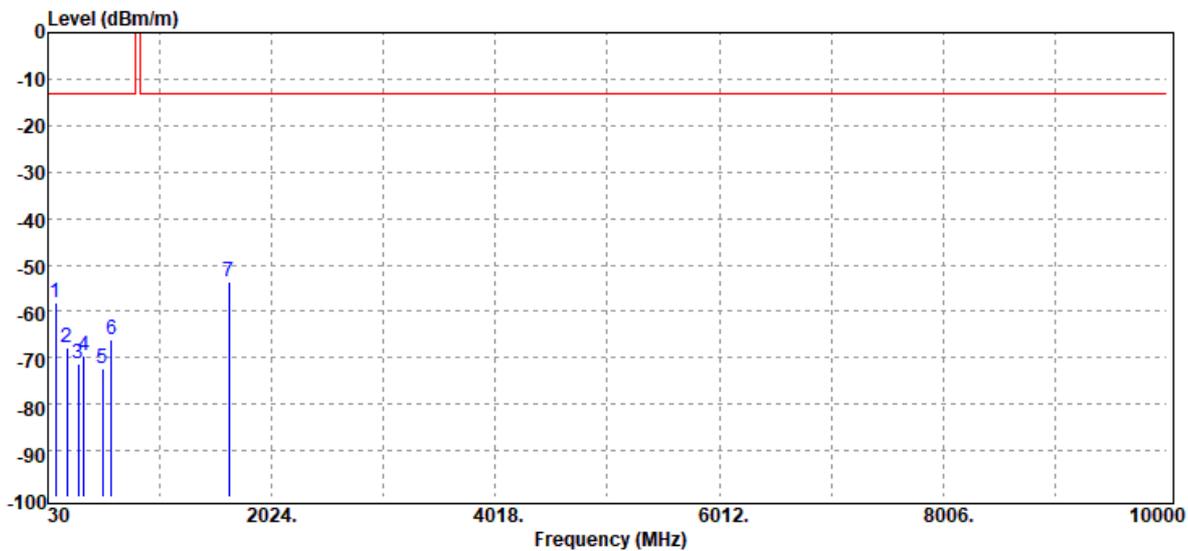
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :822.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.18	-51.54	-5.69	-0.95	-13.00	-45.18
197.81	-67.99	-64.27	-2.34	-1.38	-13.00	-54.99
299.66	-71.34	-67.95	-1.70	-1.69	-13.00	-58.34
350.10	-69.44	-66.08	-1.46	-1.90	-13.00	-56.44
516.94	-72.40	-68.37	-1.45	-2.58	-13.00	-59.40
594.54	-65.94	-62.09	-1.75	-2.10	-13.00	-52.94
1645.00	-53.72	-59.01	9.29	-4.00	-13.00	-40.72

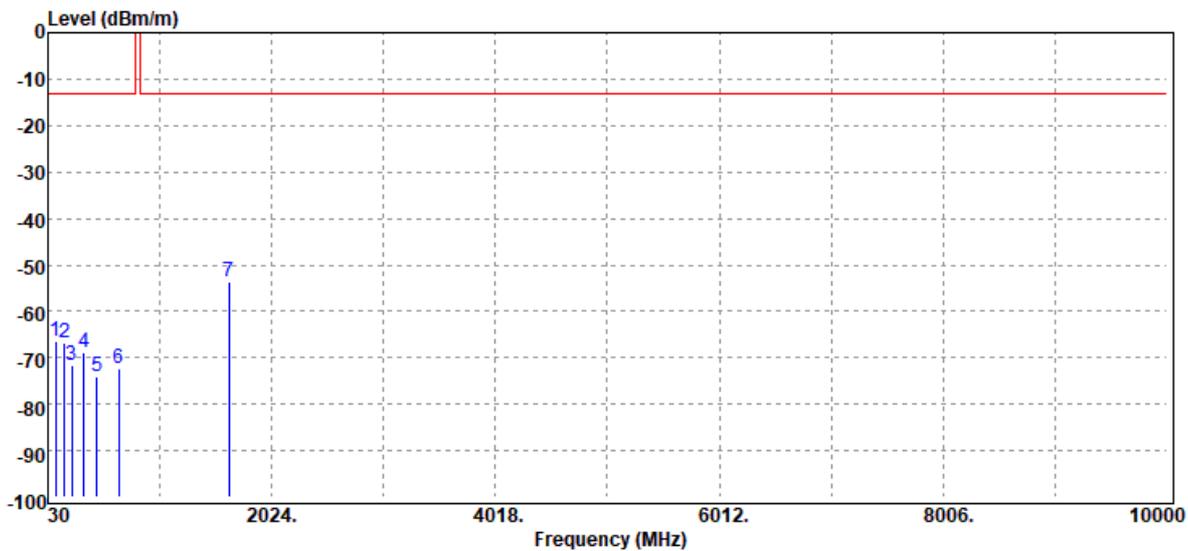
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Report Number :ER/2019/C0117
Operation Mode :LTE B26
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :822.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.40	-59.76	-5.69	-0.95	-13.00	-53.40
180.35	-66.92	-61.52	-4.15	-1.25	-13.00	-53.92
240.49	-71.51	-68.35	-1.73	-1.43	-13.00	-58.51
350.10	-68.81	-65.45	-1.46	-1.90	-13.00	-55.81
469.41	-74.03	-70.27	-1.50	-2.26	-13.00	-61.03
662.44	-72.36	-67.84	-1.37	-3.15	-13.00	-59.36
1645.00	-53.47	-58.76	9.29	-4.00	-13.00	-40.47

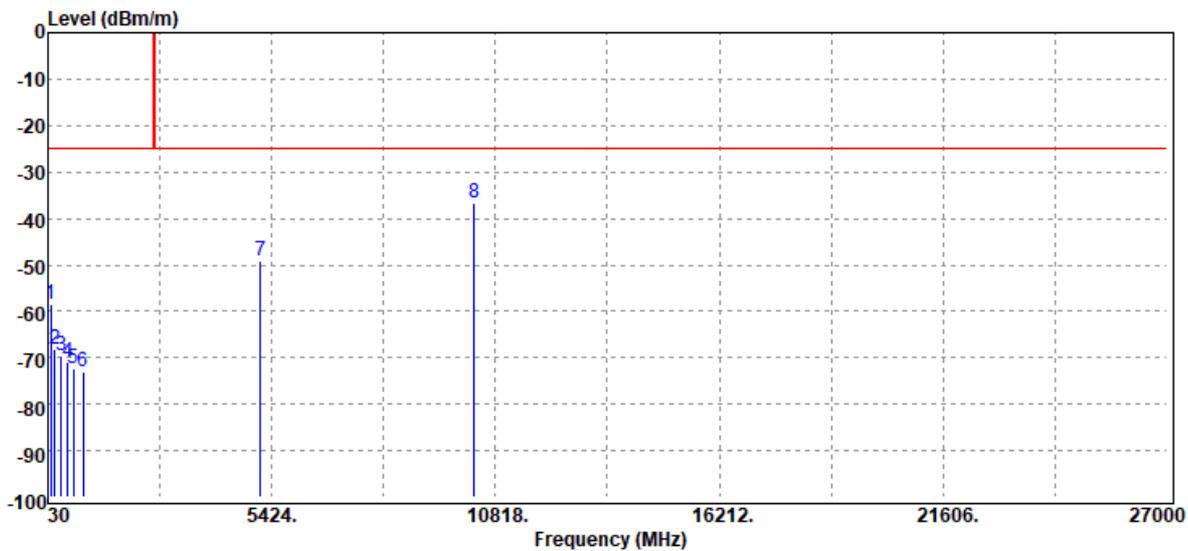
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Report Number :ER/2019/C0117
 Operation Mode :LTE B38
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane
 Test Channel :2577.5 MHz

Test Date :2020-01-31
 Temp./Humi. :18.5/55
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.61	-51.97	-5.69	-0.95	-25.00	-33.61
197.81	-68.31	-64.59	-2.34	-1.38	-25.00	-43.31
343.31	-69.71	-66.23	-1.59	-1.89	-25.00	-44.71
516.94	-70.99	-66.96	-1.45	-2.58	-25.00	-45.99
638.19	-72.20	-68.17	-1.54	-2.49	-25.00	-47.20
886.51	-72.97	-68.64	-1.72	-2.61	-25.00	-47.97
5155.00	-49.28	-54.30	12.12	-7.10	-25.00	-24.28
10310.00	-36.60	-37.58	11.18	-10.20	-25.00	-11.60

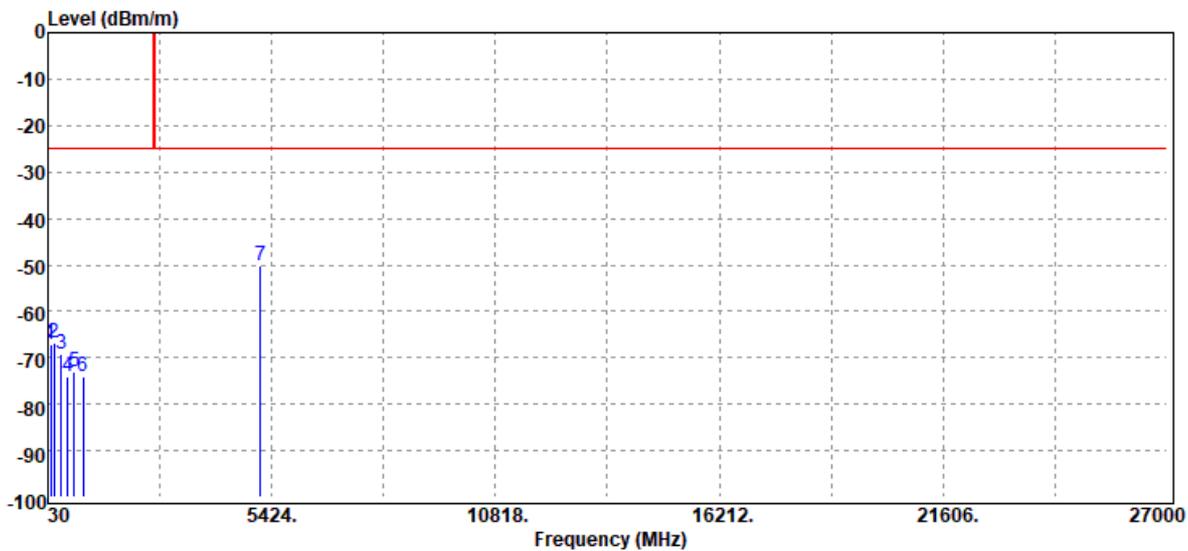
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Report Number :ER/2019/C0117
Operation Mode :LTE B38
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :2577.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.25	-60.61	-5.69	-0.95	-25.00	-42.25
180.35	-66.61	-61.21	-4.15	-1.25	-25.00	-41.61
350.10	-69.23	-65.87	-1.46	-1.90	-25.00	-44.23
516.94	-73.91	-69.88	-1.45	-2.58	-25.00	-48.91
662.44	-73.01	-68.49	-1.37	-3.15	-25.00	-48.01
876.81	-73.90	-69.68	-1.72	-2.50	-25.00	-48.90
5155.00	-50.23	-55.25	12.12	-7.10	-25.00	-25.23

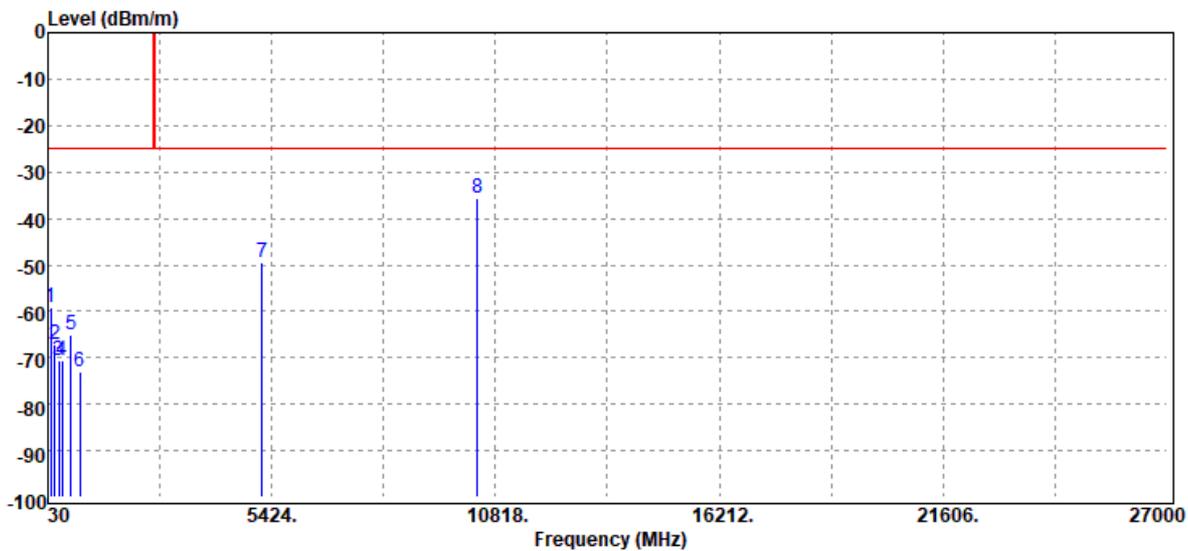
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Report Number :ER/2019/C0117
Operation Mode :LTE B38
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :2595 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.25	-52.61	-5.69	-0.95	-25.00	-34.25
197.81	-66.99	-63.27	-2.34	-1.38	-25.00	-41.99
299.66	-70.45	-67.06	-1.70	-1.69	-25.00	-45.45
372.41	-70.55	-67.02	-1.62	-1.91	-25.00	-45.55
594.54	-65.13	-61.28	-1.75	-2.10	-25.00	-40.13
794.36	-73.07	-68.37	-1.64	-3.06	-25.00	-48.07
5190.00	-49.37	-54.46	12.26	-7.17	-25.00	-24.37
10380.00	-35.67	-36.77	11.04	-9.94	-25.00	-10.67

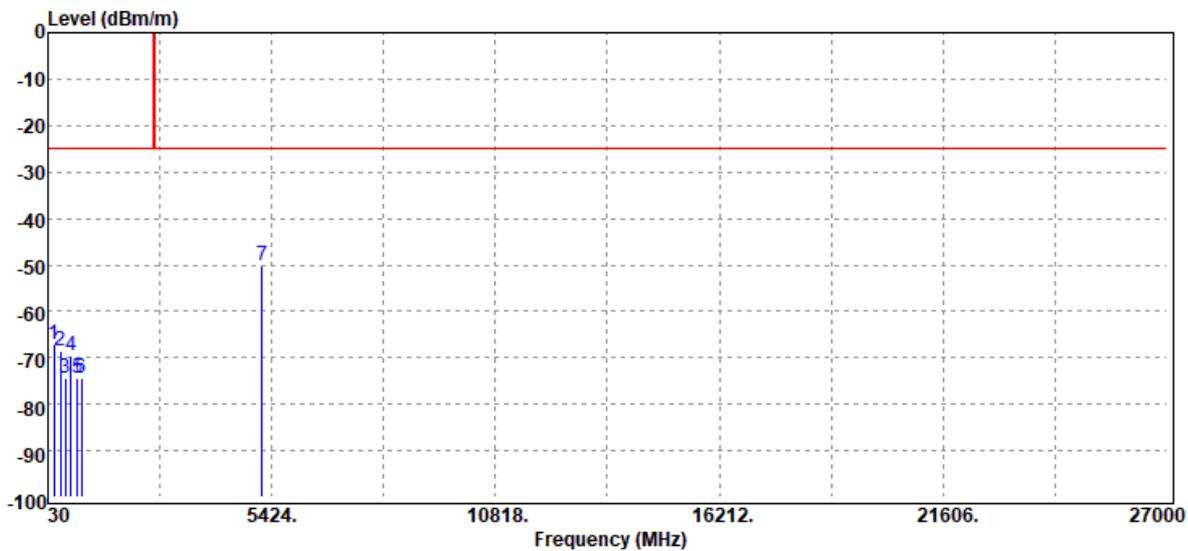
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Report Number :ER/2019/C0117
Operation Mode :LTE B38
Test Mode :Tx CH Mid
EUT Pol :E2 Plane
Test Channel :2595 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
180.35	-67.12	-61.72	-4.15	-1.25	-25.00	-42.12
337.49	-68.53	-65.01	-1.63	-1.89	-25.00	-43.53
445.16	-74.49	-70.90	-1.67	-1.92	-25.00	-49.49
594.54	-69.58	-65.73	-1.75	-2.10	-25.00	-44.58
745.86	-74.48	-70.27	-1.81	-2.40	-25.00	-49.48
841.89	-74.36	-69.57	-1.73	-3.06	-25.00	-49.36
5190.00	-50.23	-55.32	12.26	-7.17	-25.00	-25.23

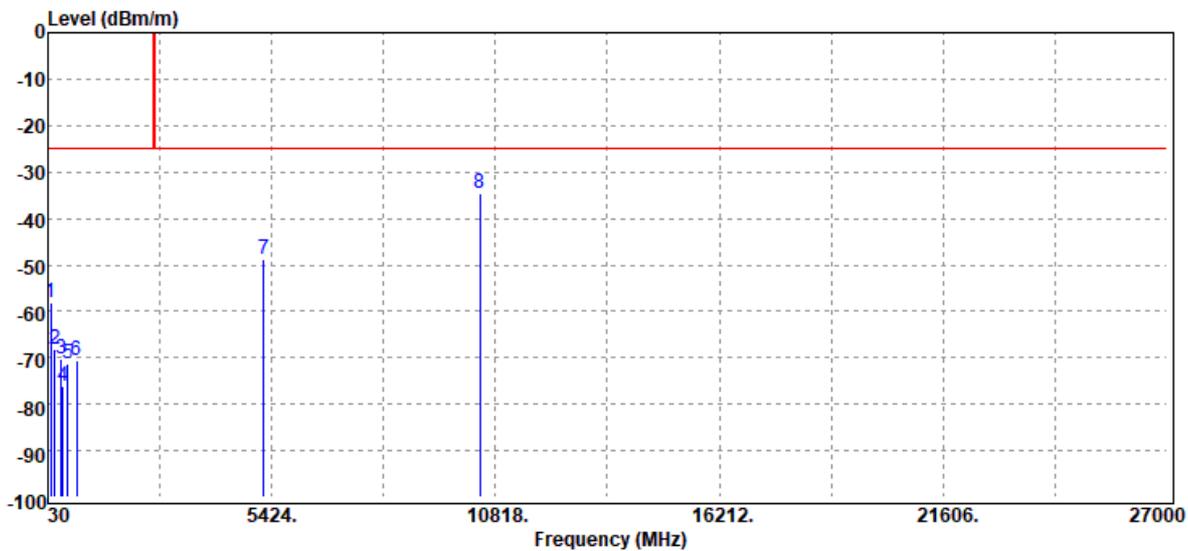
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Report Number :ER/2019/C0117
Operation Mode :LTE B38
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :2612.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.20	-51.56	-5.69	-0.95	-25.00	-33.20
197.81	-68.12	-64.40	-2.34	-1.38	-25.00	-43.12
343.31	-70.25	-66.77	-1.59	-1.89	-25.00	-45.25
395.69	-76.02	-72.46	-1.61	-1.95	-25.00	-51.02
516.94	-71.38	-67.35	-1.45	-2.58	-25.00	-46.38
721.61	-70.69	-66.93	-1.37	-2.39	-25.00	-45.69
5225.00	-48.62	-53.93	12.50	-7.19	-25.00	-23.62
10448.00	-34.43	-35.16	11.05	-10.32	-25.00	-9.43

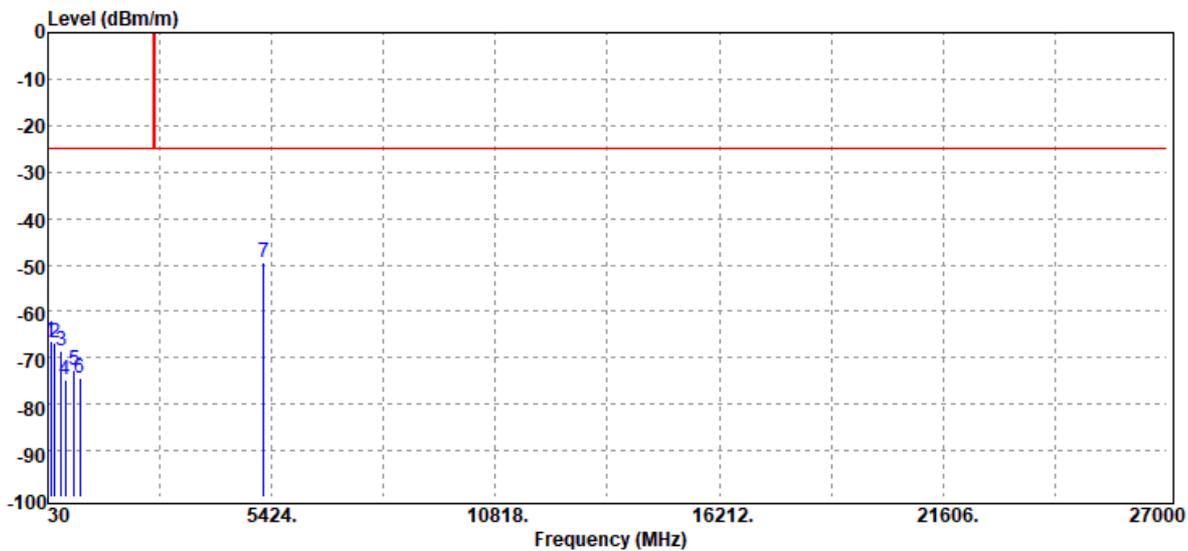
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Report Number :ER/2019/C0117
Operation Mode :LTE B38
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :2612.5 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.47	-59.83	-5.69	-0.95	-25.00	-41.47
197.81	-66.62	-62.90	-2.34	-1.38	-25.00	-41.62
350.10	-68.66	-65.30	-1.46	-1.90	-25.00	-43.66
445.16	-74.61	-71.02	-1.67	-1.92	-25.00	-49.61
662.44	-72.70	-68.18	-1.37	-3.15	-25.00	-47.70
794.36	-74.27	-69.57	-1.64	-3.06	-25.00	-49.27
5225.00	-49.41	-54.72	12.50	-7.19	-25.00	-24.41

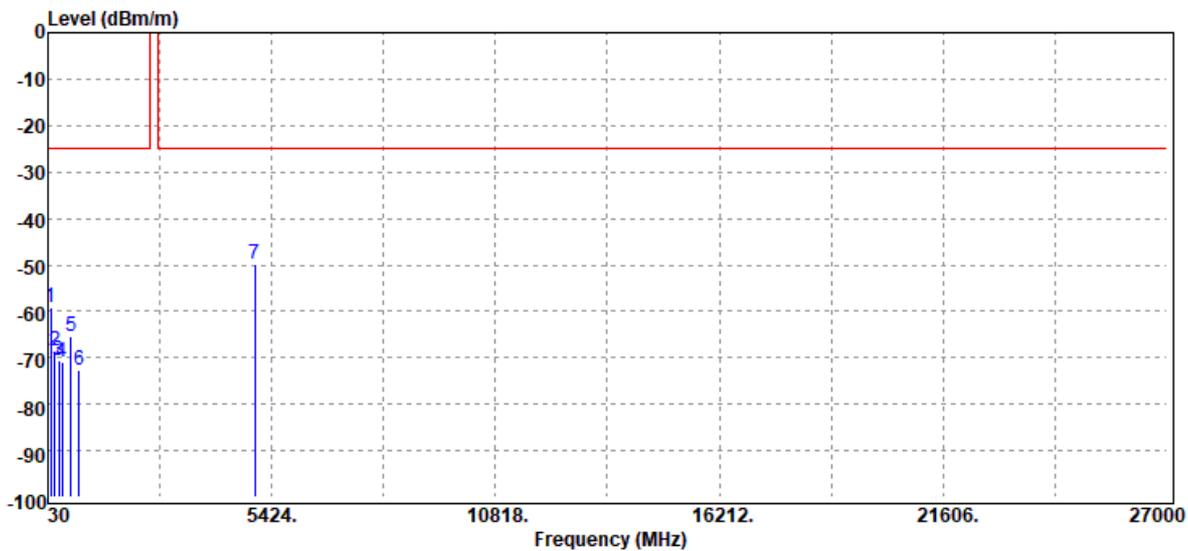
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Report Number :ER/2019/C0117
Operation Mode :LTE B41
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :2506 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.23	-52.59	-5.69	-0.95	-25.00	-34.23
197.81	-68.39	-64.67	-2.34	-1.38	-25.00	-43.39
299.66	-70.74	-67.35	-1.70	-1.69	-25.00	-45.74
372.41	-70.82	-67.29	-1.62	-1.91	-25.00	-45.82
594.54	-65.52	-61.67	-1.75	-2.10	-25.00	-40.52
781.75	-72.62	-68.21	-1.68	-2.73	-25.00	-47.62
5012.00	-49.97	-55.30	12.35	-7.02	-25.00	-24.97

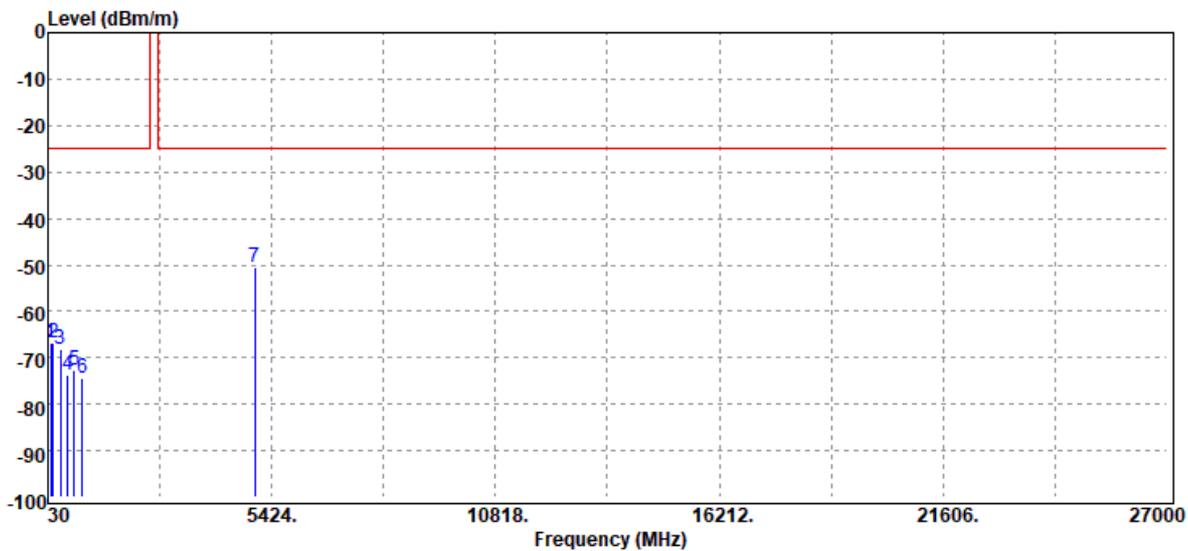
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Report Number :ER/2019/C0117
Operation Mode :LTE B41
Test Mode :Tx CH Low
EUT Pol :E2 Plane
Test Channel :2506 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.73	-60.09	-5.69	-0.95	-25.00	-41.73
159.01	-66.72	-58.35	-7.01	-1.36	-25.00	-41.72
337.49	-68.01	-64.49	-1.63	-1.89	-25.00	-43.01
516.94	-73.64	-69.61	-1.45	-2.58	-25.00	-48.64
662.44	-72.58	-68.06	-1.37	-3.15	-25.00	-47.58
854.50	-74.30	-69.67	-1.60	-3.03	-25.00	-49.30
5012.00	-50.47	-55.80	12.35	-7.02	-25.00	-25.47

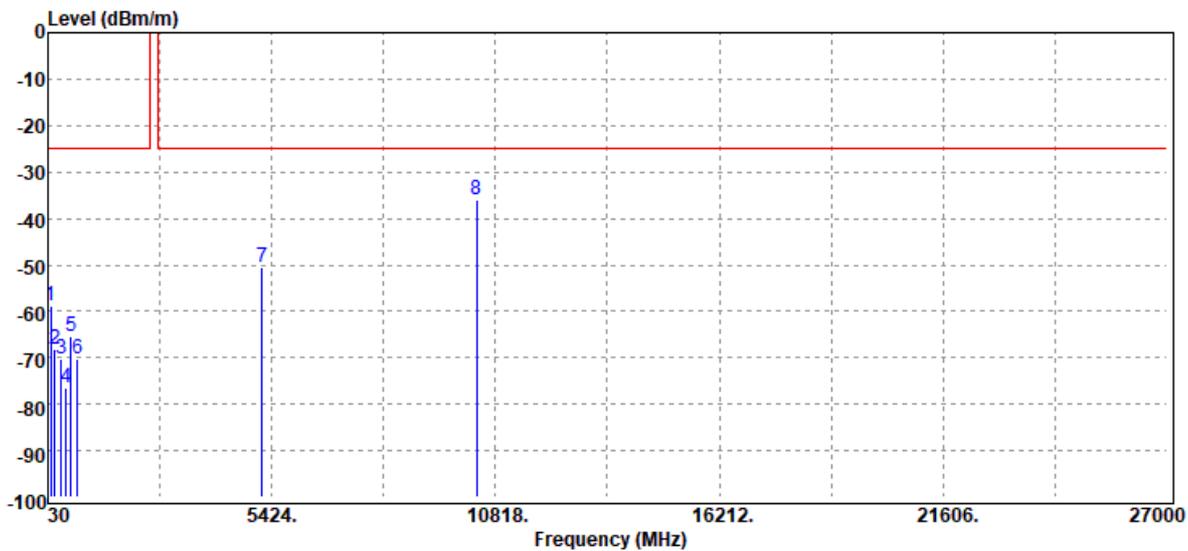
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Report Number :ER/2019/C0117
Operation Mode :LTE B41
Test Mode :Tx CH mid
EUT Pol :E2 Plane
Test Channel :2593 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.76	-52.12	-5.69	-0.95	-25.00	-33.76
197.81	-68.28	-64.56	-2.34	-1.38	-25.00	-43.28
350.10	-70.34	-66.98	-1.46	-1.90	-25.00	-45.34
469.41	-76.42	-72.66	-1.50	-2.26	-25.00	-51.42
594.54	-65.31	-61.46	-1.75	-2.10	-25.00	-40.31
733.25	-70.31	-66.60	-1.50	-2.21	-25.00	-45.31
5186.00	-50.67	-55.75	12.24	-7.16	-25.00	-25.67
10372.00	-35.99	-37.08	11.06	-9.97	-25.00	-10.99

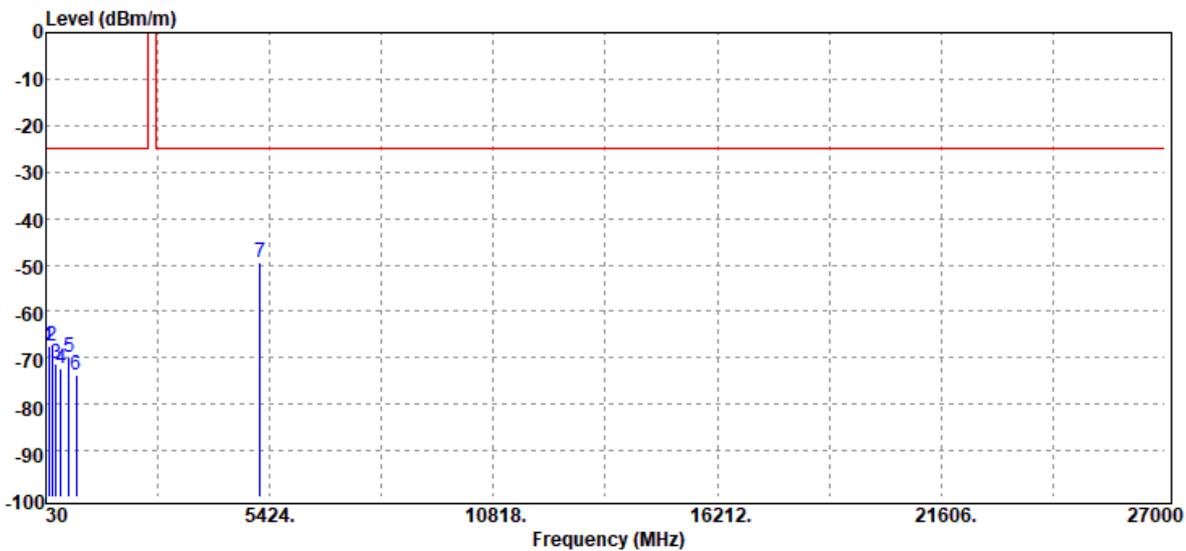
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Report Number :ER/2019/C0117
Operation Mode :LTE B41
Test Mode :Tx CH mid
EUT Pol :E2 Plane
Test Channel :2593 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.57	-60.93	-5.69	-0.95	-25.00	-42.57
180.35	-67.32	-61.92	-4.15	-1.25	-25.00	-42.32
277.35	-71.35	-67.78	-1.93	-1.64	-25.00	-46.35
395.69	-72.30	-68.74	-1.61	-1.95	-25.00	-47.30
594.54	-70.04	-66.19	-1.75	-2.10	-25.00	-45.04
757.50	-73.59	-69.19	-1.80	-2.60	-25.00	-48.59
5186.00	-49.59	-54.67	12.24	-7.16	-25.00	-24.59

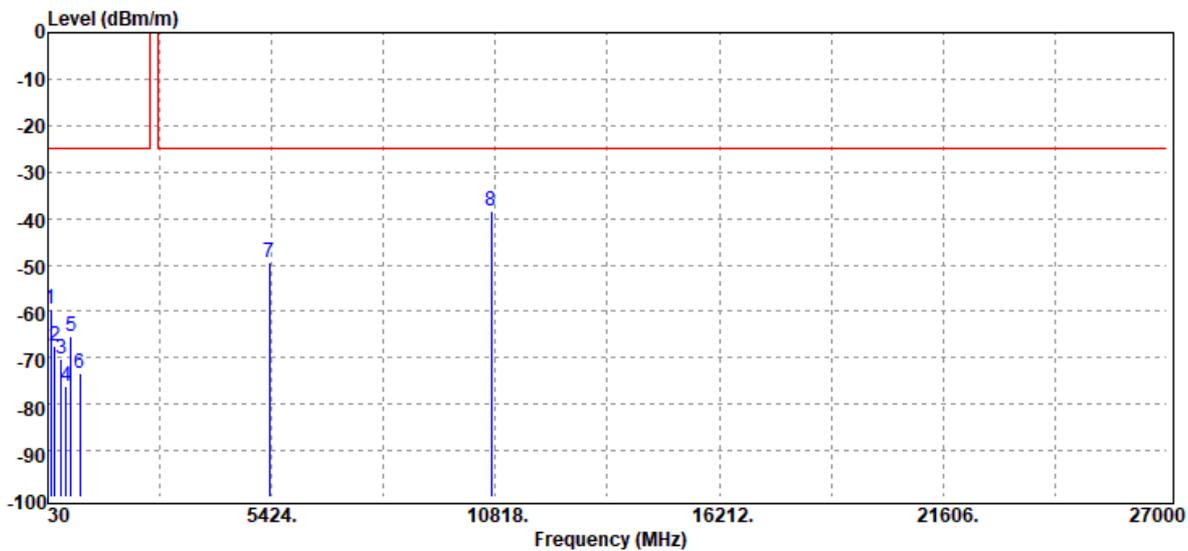
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Report Number :ER/2019/C0117
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :2680 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :VERTICAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.52	-52.88	-5.69	-0.95	-25.00	-34.52
197.81	-67.52	-63.80	-2.34	-1.38	-25.00	-42.52
350.10	-70.20	-66.84	-1.46	-1.90	-25.00	-45.20
469.41	-76.17	-72.41	-1.50	-2.26	-25.00	-51.17
594.54	-65.25	-61.40	-1.75	-2.10	-25.00	-40.25
799.21	-73.34	-68.61	-1.59	-3.14	-25.00	-48.34
5360.00	-49.51	-55.11	12.90	-7.30	-25.00	-24.51
10720.00	-38.36	-39.14	11.16	-10.38	-25.00	-13.36

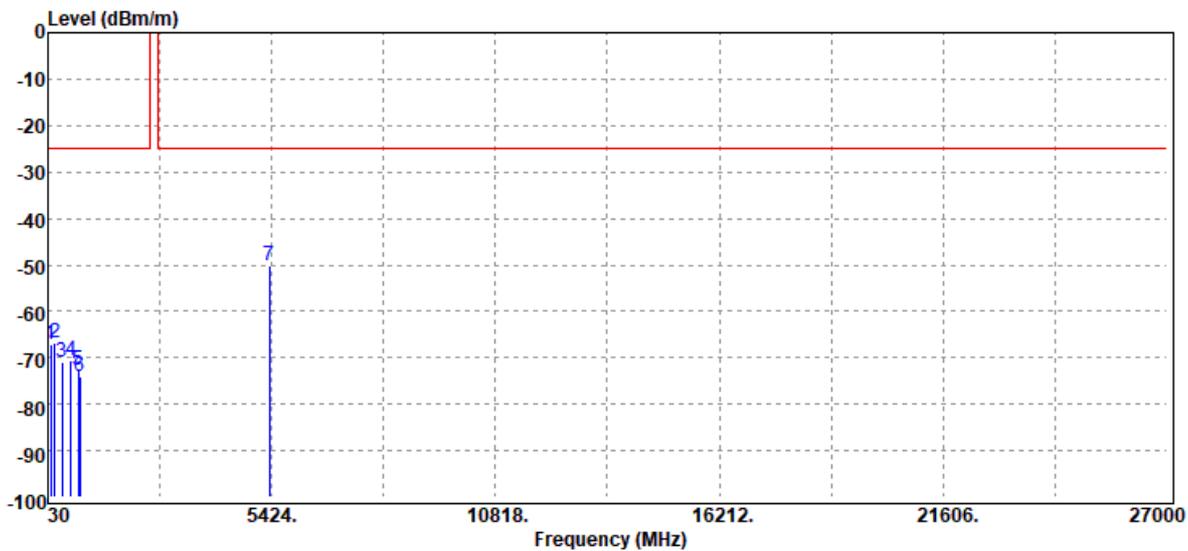
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Report Number :ER/2019/C0117
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :E2 Plane
Test Channel :2680 MHz

Test Date :2020-01-31
Temp./Humi. :18.5/55
Antenna Pol. :HORIZONTAL
Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.16	-60.52	-5.69	-0.95	-25.00	-42.16
197.81	-66.93	-63.21	-2.34	-1.38	-25.00	-41.93
379.20	-70.90	-67.34	-1.64	-1.92	-25.00	-45.90
594.54	-70.47	-66.62	-1.75	-2.10	-25.00	-45.47
757.50	-72.55	-68.15	-1.80	-2.60	-25.00	-47.55
796.30	-74.09	-69.38	-1.62	-3.09	-25.00	-49.09
5360.00	-50.32	-55.92	12.90	-7.30	-25.00	-25.32

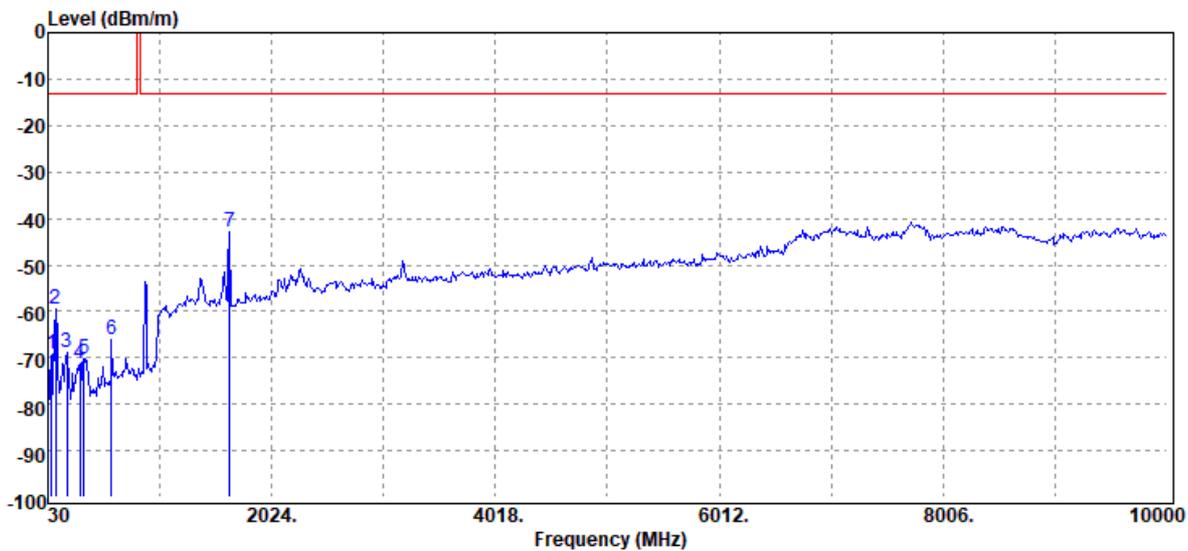
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Co-location (WWAN+2.4G)

Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:GSM 850/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:824.2 MHz/2437 MHz		

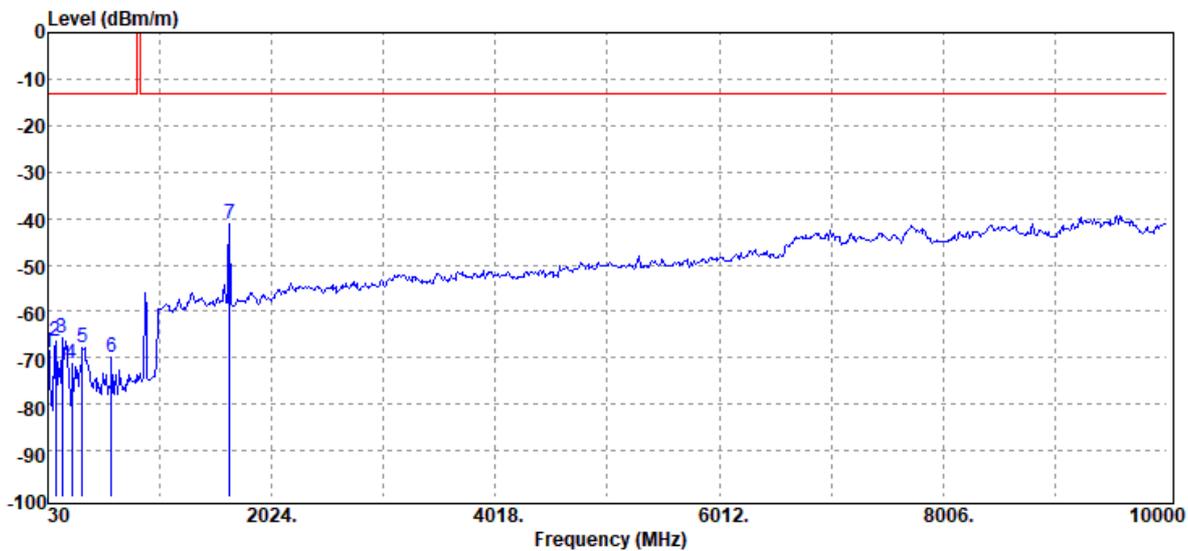


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-69.09	-54.30	-14.03	-0.76	-13.00	-56.09
95.96	-59.52	-52.88	-5.69	-0.95	-13.00	-46.52
197.81	-68.71	-64.99	-2.34	-1.38	-13.00	-55.71
313.24	-71.15	-67.88	-1.62	-1.65	-13.00	-58.15
350.10	-70.19	-66.83	-1.46	-1.90	-13.00	-57.19
594.54	-66.13	-62.28	-1.75	-2.10	-13.00	-53.13
1648.40	-42.92	-48.21	9.30	-4.01	-13.00	-29.92

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:GSM 850/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:824.2 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-68.85	-47.29	-21.02	-0.54	-13.00	-55.85
95.96	-66.51	-59.87	-5.69	-0.95	-13.00	-53.51
156.10	-65.66	-57.09	-7.26	-1.31	-13.00	-52.66
240.49	-71.31	-68.15	-1.73	-1.43	-13.00	-58.31
337.49	-67.82	-64.30	-1.63	-1.89	-13.00	-54.82
594.54	-69.90	-66.05	-1.75	-2.10	-13.00	-56.90
1648.40	-41.26	-46.55	9.30	-4.01	-13.00	-28.26

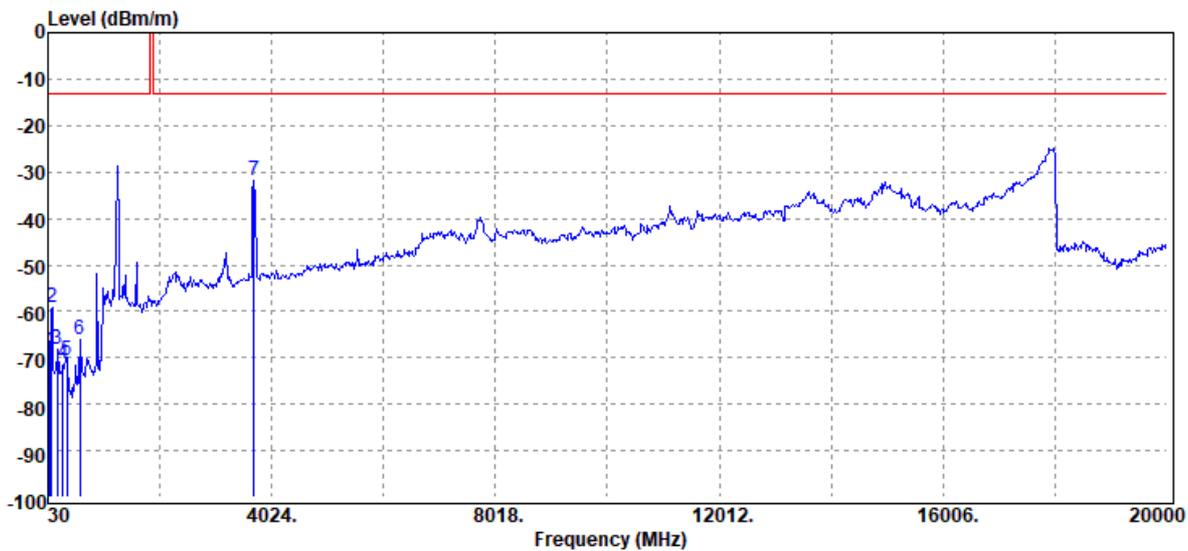
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Report Number :ER/2019/C0117
 Operation Mode :GSM 1900/802.11b
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1850.2 MHz/2437 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-68.34	-53.55	-14.03	-0.76	-13.00	-55.34
95.96	-59.26	-52.62	-5.69	-0.95	-13.00	-46.26
197.81	-68.32	-64.60	-2.34	-1.38	-13.00	-55.32
299.66	-71.37	-67.98	-1.70	-1.69	-13.00	-58.37
367.56	-70.64	-67.15	-1.58	-1.91	-13.00	-57.64
594.54	-66.06	-62.21	-1.75	-2.10	-13.00	-53.06
3700.40	-31.86	-38.33	12.40	-5.93	-13.00	-18.86

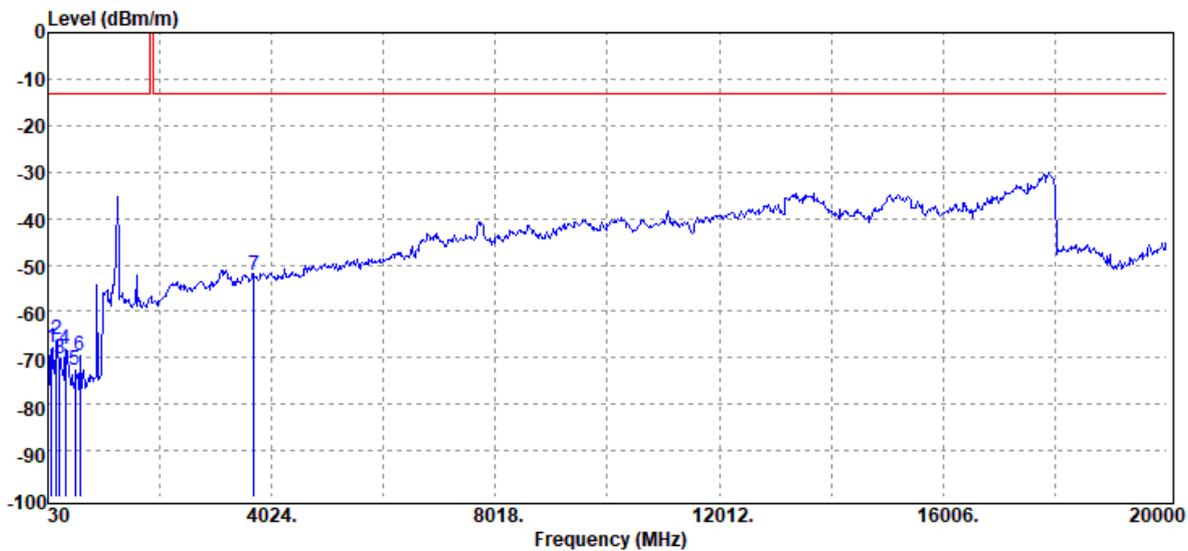
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Report Number :ER/2019/C0117
 Operation Mode :GSM 1900/802.11b
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1850.2 MHz/2437 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.89	-61.25	-5.69	-0.95	-13.00	-54.89
180.35	-66.23	-60.83	-4.15	-1.25	-13.00	-53.23
240.49	-70.16	-67.00	-1.73	-1.43	-13.00	-57.16
337.49	-68.05	-64.53	-1.63	-1.89	-13.00	-55.05
516.94	-72.68	-68.65	-1.45	-2.58	-13.00	-59.68
594.54	-69.59	-65.74	-1.75	-2.10	-13.00	-56.59
3700.40	-52.26	-58.73	12.40	-5.93	-13.00	-39.26

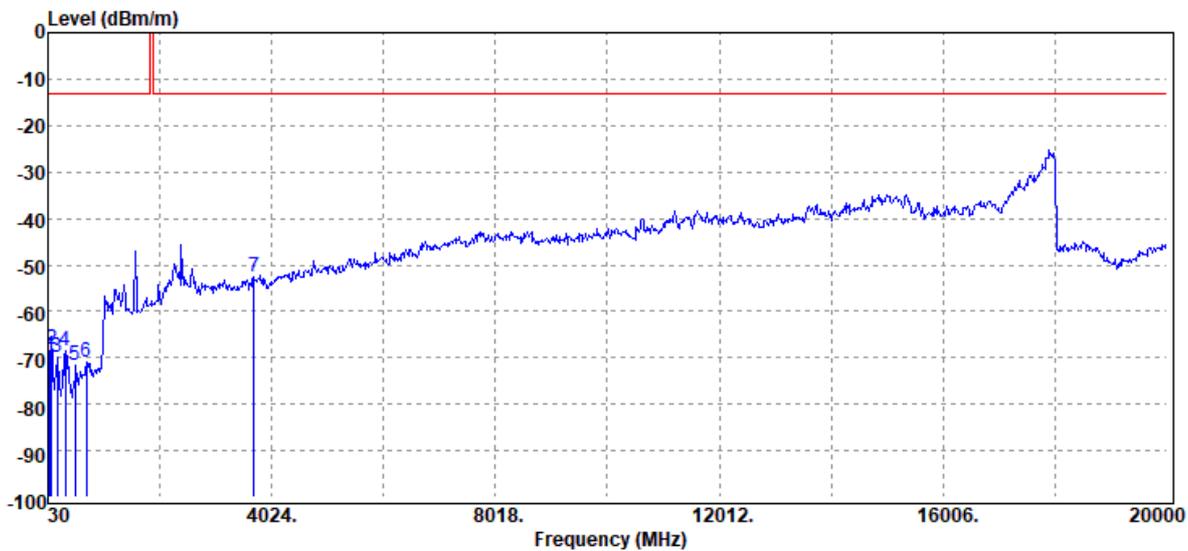
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B2/802.11b
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1852.4 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



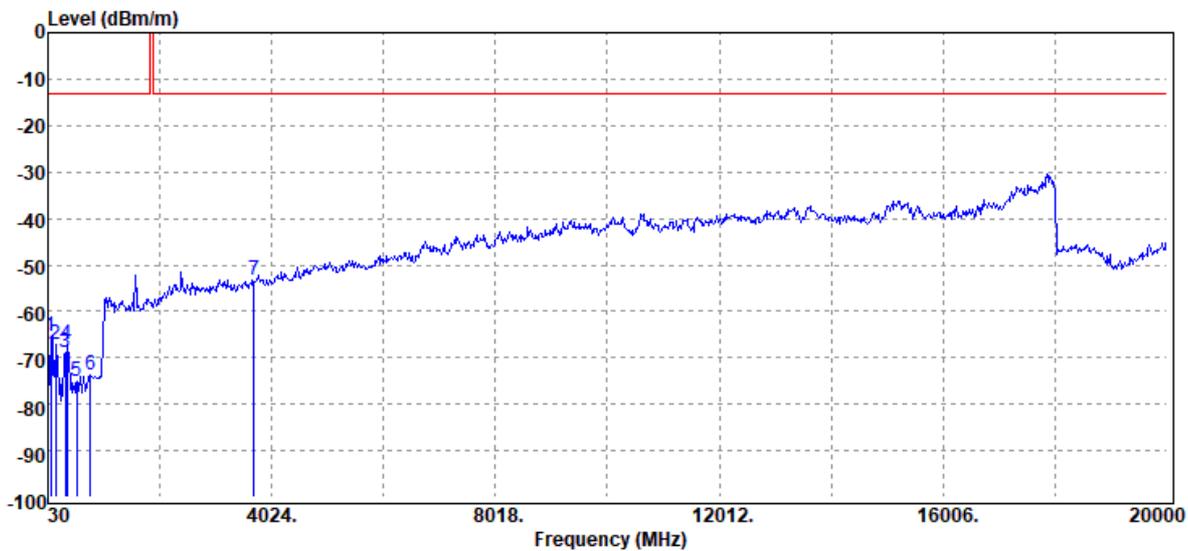
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	-69.62	-53.63	-15.26	-0.73	-13.00	-56.62
95.96	-68.13	-61.49	-5.69	-0.95	-13.00	-55.13
197.81	-69.79	-66.07	-2.34	-1.38	-13.00	-56.79
337.49	-68.62	-65.10	-1.63	-1.89	-13.00	-55.62
516.94	-71.79	-67.76	-1.45	-2.58	-13.00	-58.79
721.61	-70.85	-67.09	-1.37	-2.39	-13.00	-57.85
3704.80	-52.72	-59.17	12.39	-5.94	-13.00	-39.72

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Report Number	:ER/2019/C0117	Test Date	:2020-01-07
Operation Mode	:WCDMA B2/802.11b	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1852.4 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-65.31	-57.91	-6.50	-0.90	-13.00	-52.31
168.71	-67.21	-59.82	-6.09	-1.30	-13.00	-54.21
337.49	-68.79	-65.27	-1.63	-1.89	-13.00	-55.79
373.38	-67.18	-63.64	-1.63	-1.91	-13.00	-54.18
541.19	-75.24	-71.69	-1.39	-2.16	-13.00	-62.24
781.75	-73.66	-69.25	-1.68	-2.73	-13.00	-60.66
3704.80	-53.15	-59.60	12.39	-5.94	-13.00	-40.15

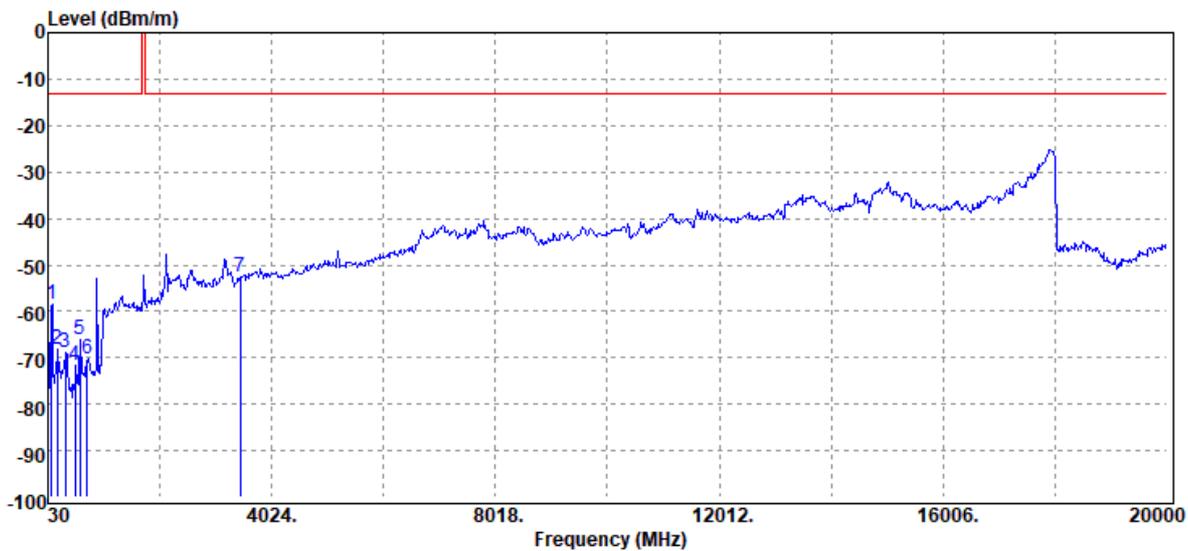
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B4/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.4 MHz/2437 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



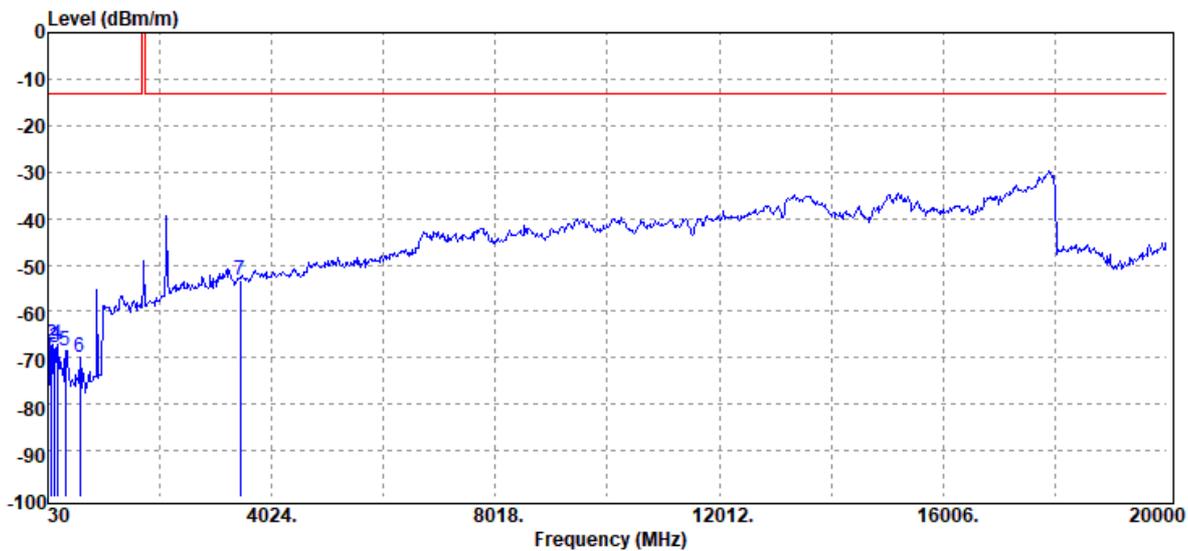
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.44	-51.80	-5.69	-0.95	-13.00	-45.44
197.81	-68.09	-64.37	-2.34	-1.38	-13.00	-55.09
343.31	-68.98	-65.50	-1.59	-1.89	-13.00	-55.98
516.94	-71.75	-67.72	-1.45	-2.58	-13.00	-58.75
594.54	-66.11	-62.26	-1.75	-2.10	-13.00	-53.11
733.25	-70.26	-66.55	-1.50	-2.21	-13.00	-57.26
3464.80	-52.59	-59.21	12.37	-5.75	-13.00	-39.59

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:WCDMA B4/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1732.4 MHz/2437 MHz		



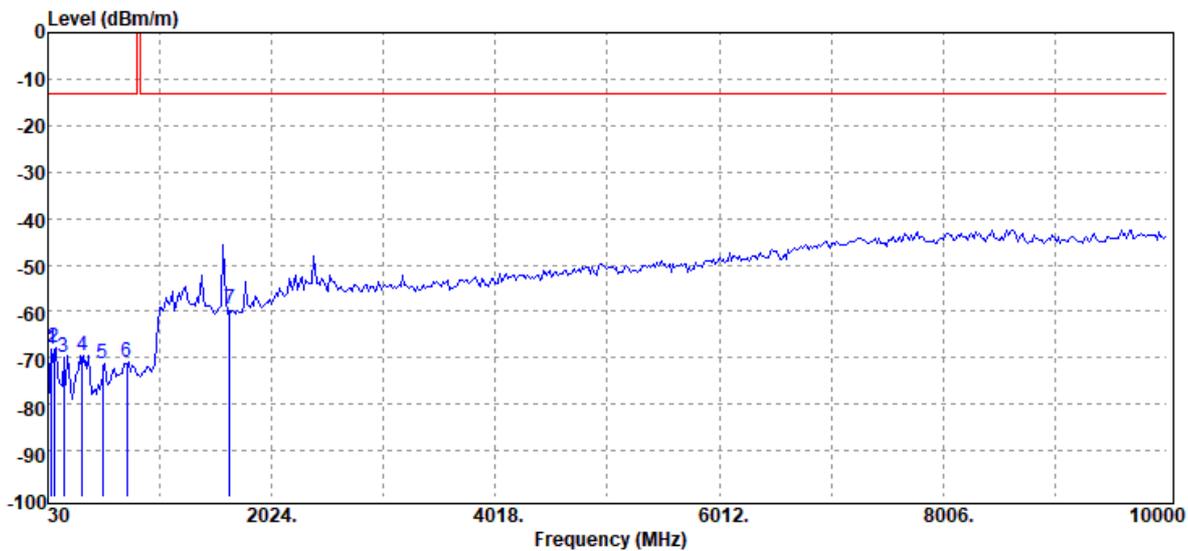
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-70.28	-49.22	-20.49	-0.57	-13.00	-57.28
95.96	-67.10	-60.46	-5.69	-0.95	-13.00	-54.10
159.01	-67.82	-59.45	-7.01	-1.36	-13.00	-54.82
197.81	-67.01	-63.29	-2.34	-1.38	-13.00	-54.01
337.49	-68.52	-65.00	-1.63	-1.89	-13.00	-55.52
594.54	-69.97	-66.12	-1.75	-2.10	-13.00	-56.97
3464.80	-53.34	-59.96	12.37	-5.75	-13.00	-40.34

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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B5/802.11b
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :826.4 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



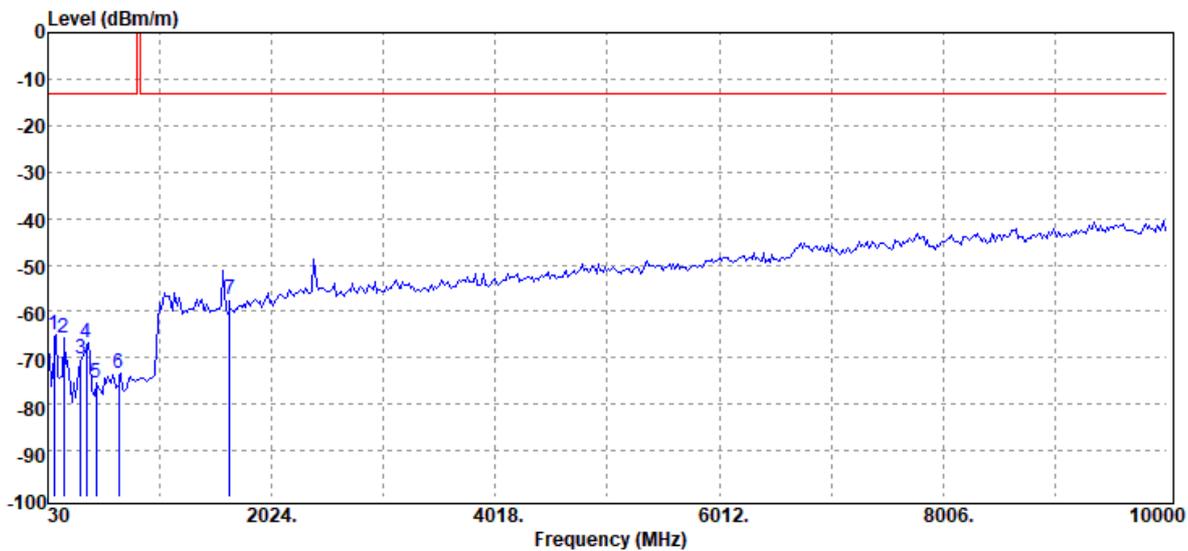
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-68.28	-54.10	-13.40	-0.78	-13.00	-55.28
87.23	-67.77	-60.37	-6.50	-0.90	-13.00	-54.77
168.71	-69.76	-62.37	-6.09	-1.30	-13.00	-56.76
337.49	-69.43	-65.91	-1.63	-1.89	-13.00	-56.43
516.94	-71.39	-67.36	-1.45	-2.58	-13.00	-58.39
734.22	-71.03	-67.31	-1.50	-2.22	-13.00	-58.03
1652.80	-59.54	-64.85	9.32	-4.01	-13.00	-46.54

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Report Number	:ER/2019/C0117	Test Date	:2020-01-07
Operation Mode	:WCDMA B5/802.11b	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:826.4 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-64.94	-57.54	-6.50	-0.90	-13.00	-51.94
168.71	-65.90	-58.51	-6.09	-1.30	-13.00	-52.90
319.06	-70.35	-66.90	-1.71	-1.74	-13.00	-57.35
373.38	-66.74	-63.20	-1.63	-1.91	-13.00	-53.74
456.80	-75.54	-71.84	-1.58	-2.12	-13.00	-62.54
661.47	-73.52	-68.94	-1.40	-3.18	-13.00	-60.52
1652.80	-57.39	-62.70	9.32	-4.01	-13.00	-44.39

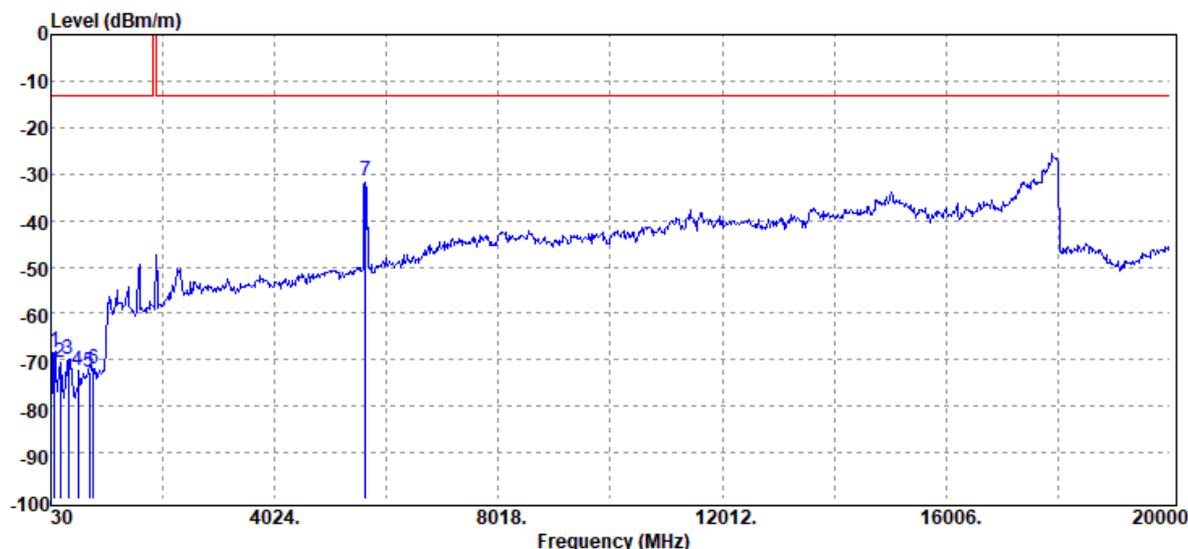
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Report Number :ER/2019/C0117
 Operation Mode :LTE B2/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1880 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



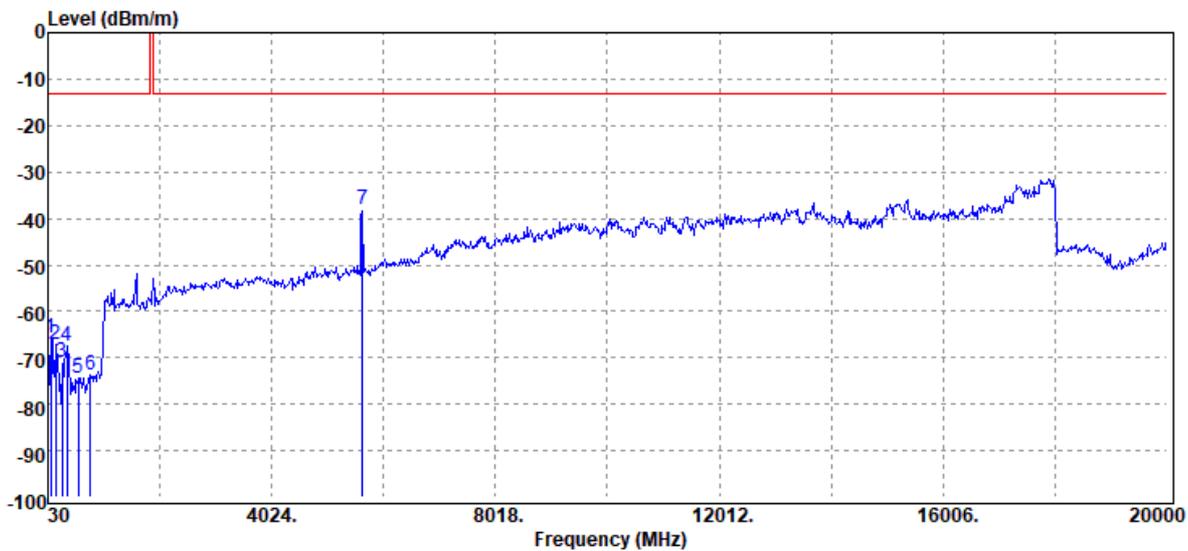
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-68.33	-61.73	-5.67	-0.93	-13.00	-55.33
197.81	-70.51	-66.79	-2.34	-1.38	-13.00	-57.51
343.31	-69.77	-66.29	-1.59	-1.89	-13.00	-56.77
516.94	-72.32	-68.29	-1.45	-2.58	-13.00	-59.32
709.97	-72.56	-68.61	-1.31	-2.64	-13.00	-59.56
792.42	-71.99	-67.31	-1.66	-3.02	-13.00	-58.99
5640.00	-31.55	-37.33	13.26	-7.48	-13.00	-18.55

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Report Number	:ER/2019/C0117	Test Date	:2020-01-07
Operation Mode	:LTE B2/802.11b	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1880 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-65.65	-58.25	-6.50	-0.90	-13.00	-52.65
168.71	-66.98	-59.59	-6.09	-1.30	-13.00	-53.98
288.02	-70.98	-67.49	-1.81	-1.68	-13.00	-57.98
373.38	-67.52	-63.98	-1.63	-1.91	-13.00	-54.52
565.44	-74.27	-70.61	-1.40	-2.26	-13.00	-61.27
781.75	-73.59	-69.18	-1.68	-2.73	-13.00	-60.59
5640.00	-38.16	-43.94	13.26	-7.48	-13.00	-25.16

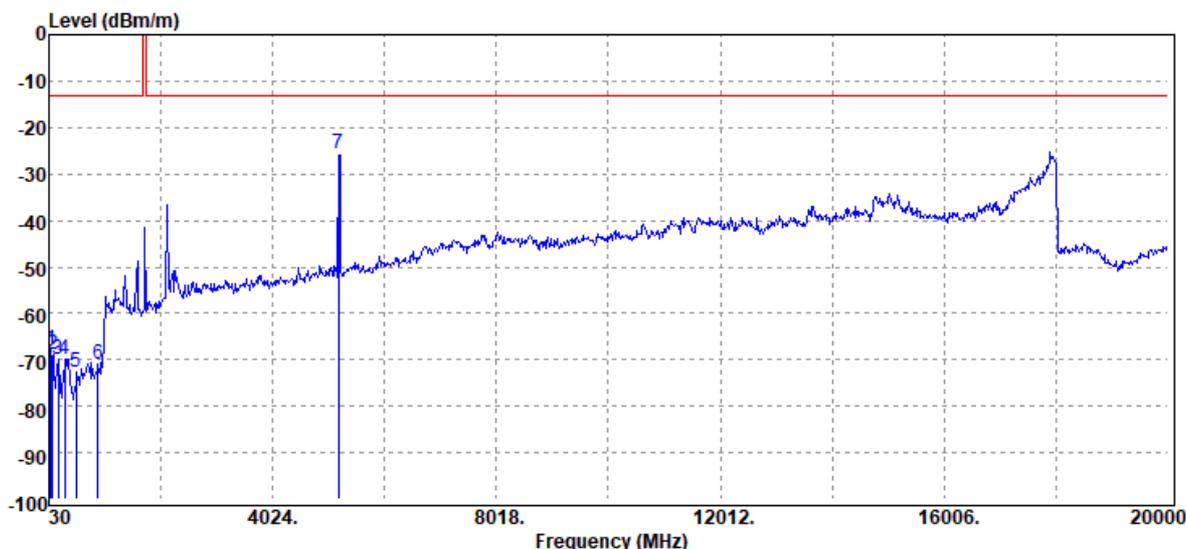
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Report Number :ER/2019/C0117
 Operation Mode :LTE B4/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.5 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-67.79	-53.61	-13.40	-0.78	-13.00	-54.79
95.96	-68.81	-62.17	-5.69	-0.95	-13.00	-55.81
197.81	-69.88	-66.16	-2.34	-1.38	-13.00	-56.88
313.24	-69.72	-66.45	-1.62	-1.65	-13.00	-56.72
516.94	-72.55	-68.52	-1.45	-2.58	-13.00	-59.55
907.85	-71.00	-66.34	-1.84	-2.82	-13.00	-58.00
5197.50	-25.51	-30.62	12.29	-7.18	-13.00	-12.51

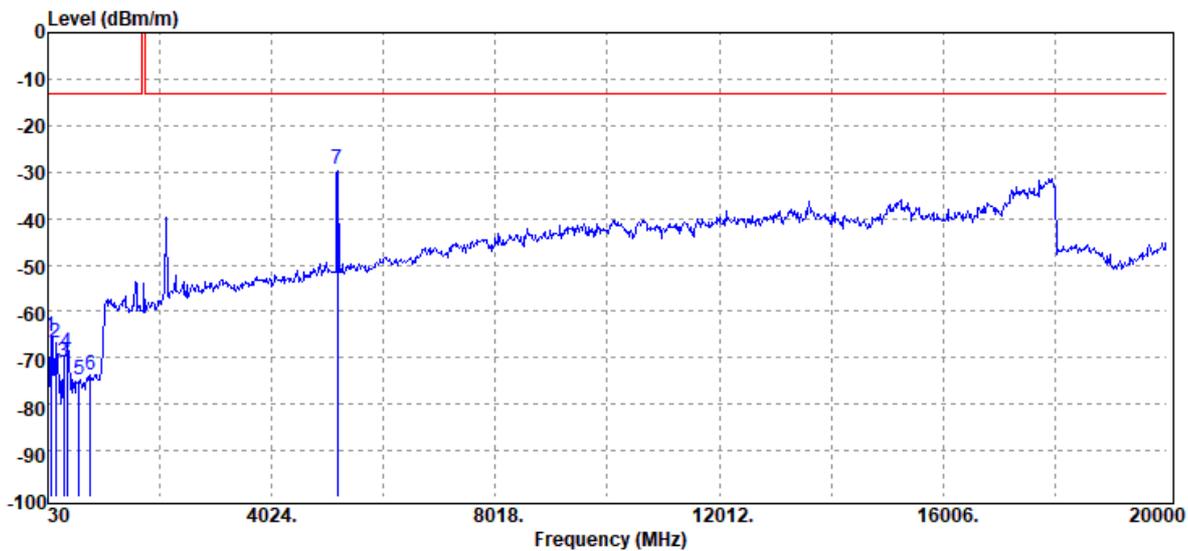
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Report Number :ER/2019/C0117
 Operation Mode :LTE B4/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.5 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-65.33	-57.93	-6.50	-0.90	-13.00	-52.33
168.71	-66.71	-59.32	-6.09	-1.30	-13.00	-53.71
313.24	-71.10	-67.83	-1.62	-1.65	-13.00	-58.10
367.56	-68.72	-65.23	-1.58	-1.91	-13.00	-55.72
589.69	-74.77	-71.12	-1.71	-1.94	-13.00	-61.77
781.75	-73.64	-69.23	-1.68	-2.73	-13.00	-60.64
5197.50	-29.45	-34.56	12.29	-7.18	-13.00	-16.45

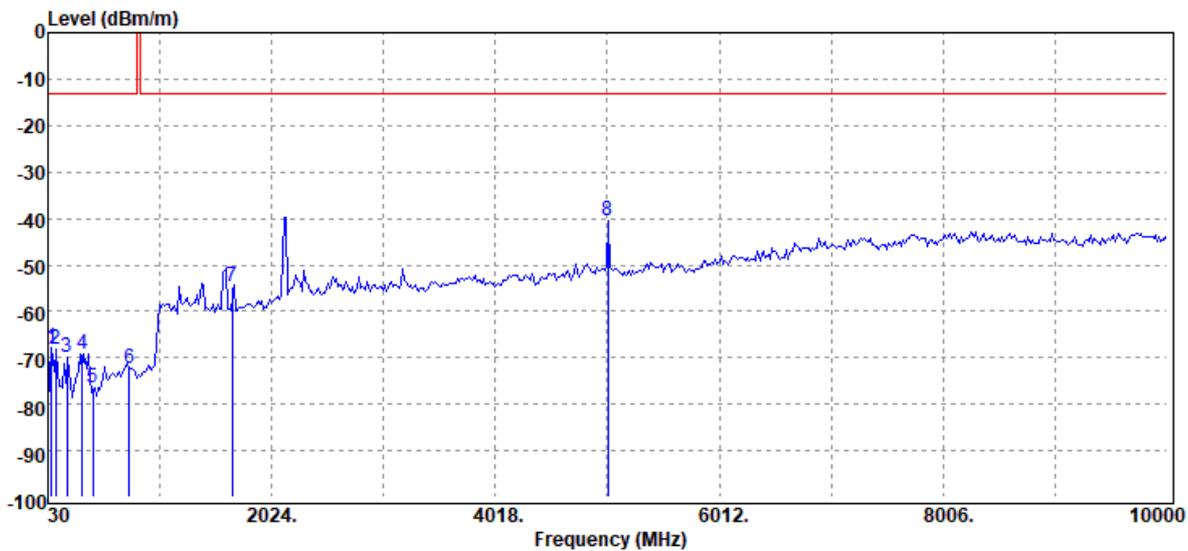
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Report Number :ER/2019/C0117
 Operation Mode :LTE B5/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :836.5 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-67.91	-53.73	-13.40	-0.78	-13.00	-54.91
95.96	-68.25	-61.61	-5.69	-0.95	-13.00	-55.25
197.81	-69.86	-66.14	-2.34	-1.38	-13.00	-56.86
337.49	-69.15	-65.63	-1.63	-1.89	-13.00	-56.15
433.52	-76.59	-73.09	-1.67	-1.83	-13.00	-63.59
751.68	-72.26	-67.92	-1.82	-2.52	-13.00	-59.26
1673.00	-54.50	-59.96	9.49	-4.03	-13.00	-41.50
5019.00	-40.40	-45.70	12.32	-7.02	-13.00	-27.40

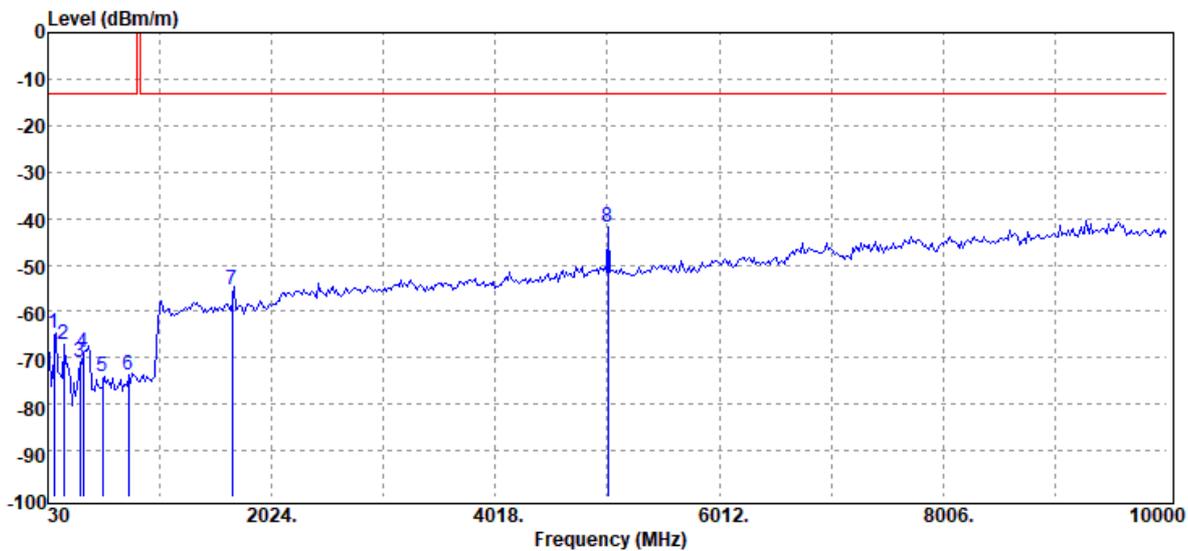
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Report Number :ER/2019/C0117
 Operation Mode :LTE B5/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :836.5 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



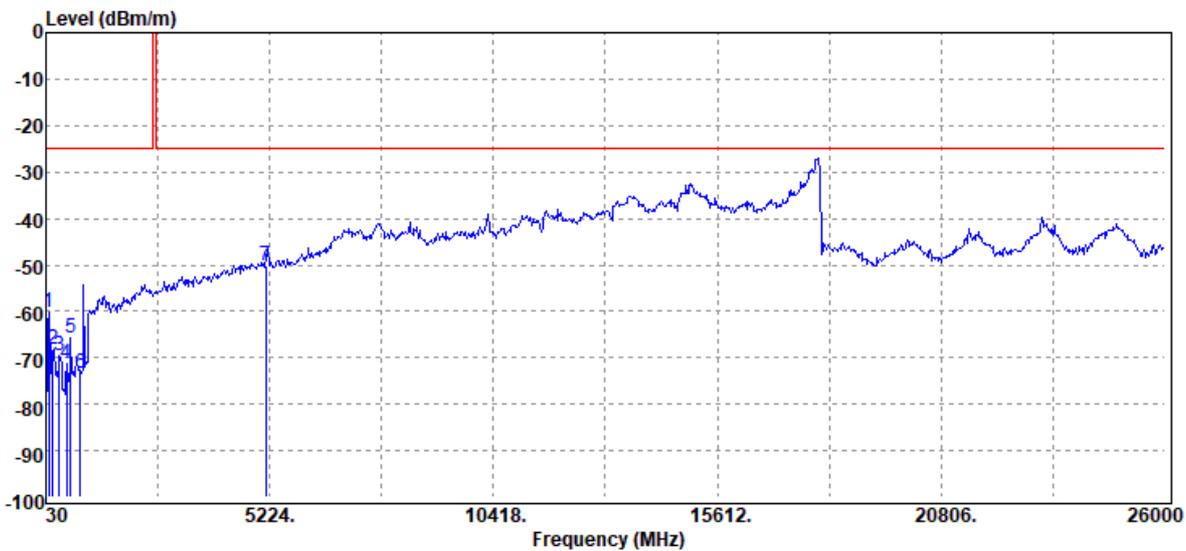
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-64.59	-57.19	-6.50	-0.90	-13.00	-51.59
168.71	-67.27	-59.88	-6.09	-1.30	-13.00	-54.27
313.24	-70.77	-67.50	-1.62	-1.65	-13.00	-57.77
343.31	-68.69	-65.21	-1.59	-1.89	-13.00	-55.69
516.94	-74.05	-70.02	-1.45	-2.58	-13.00	-61.05
745.86	-73.74	-69.53	-1.81	-2.40	-13.00	-60.74
1673.00	-55.29	-60.75	9.49	-4.03	-13.00	-42.29
5019.00	-41.81	-47.11	12.32	-7.02	-13.00	-28.81

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B7/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2565 MHz/2437 MHz		



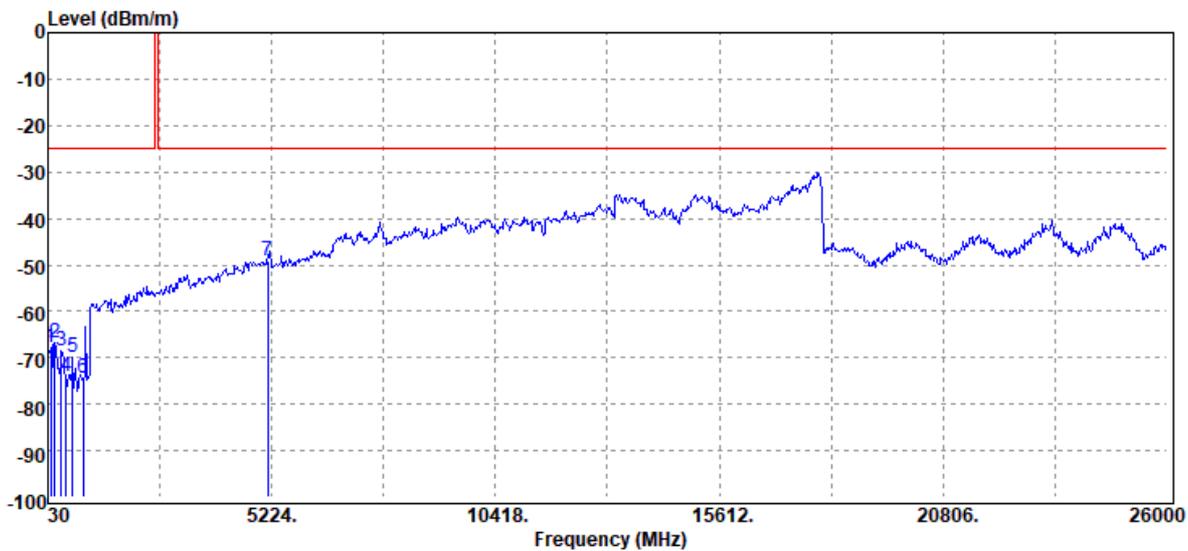
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-60.14	-53.50	-5.69	-0.95	-25.00	-35.14
197.81	-68.07	-64.35	-2.34	-1.38	-25.00	-43.07
343.31	-69.68	-66.20	-1.59	-1.89	-25.00	-44.68
516.94	-71.35	-67.32	-1.45	-2.58	-25.00	-46.35
594.54	-65.79	-61.94	-1.75	-2.10	-25.00	-40.79
837.04	-73.24	-68.44	-1.79	-3.01	-25.00	-48.24
5130.00	-50.14	-55.19	12.10	-7.05	-25.00	-25.14

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B7/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2565 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.91	-61.27	-5.69	-0.95	-25.00	-42.91
180.35	-66.81	-61.41	-4.15	-1.25	-25.00	-41.81
337.49	-68.36	-64.84	-1.63	-1.89	-25.00	-43.36
445.16	-74.15	-70.56	-1.67	-1.92	-25.00	-49.15
594.54	-70.05	-66.20	-1.75	-2.10	-25.00	-45.05
847.71	-74.29	-69.50	-1.67	-3.12	-25.00	-49.29
5130.00	-49.20	-54.25	12.10	-7.05	-25.00	-24.20

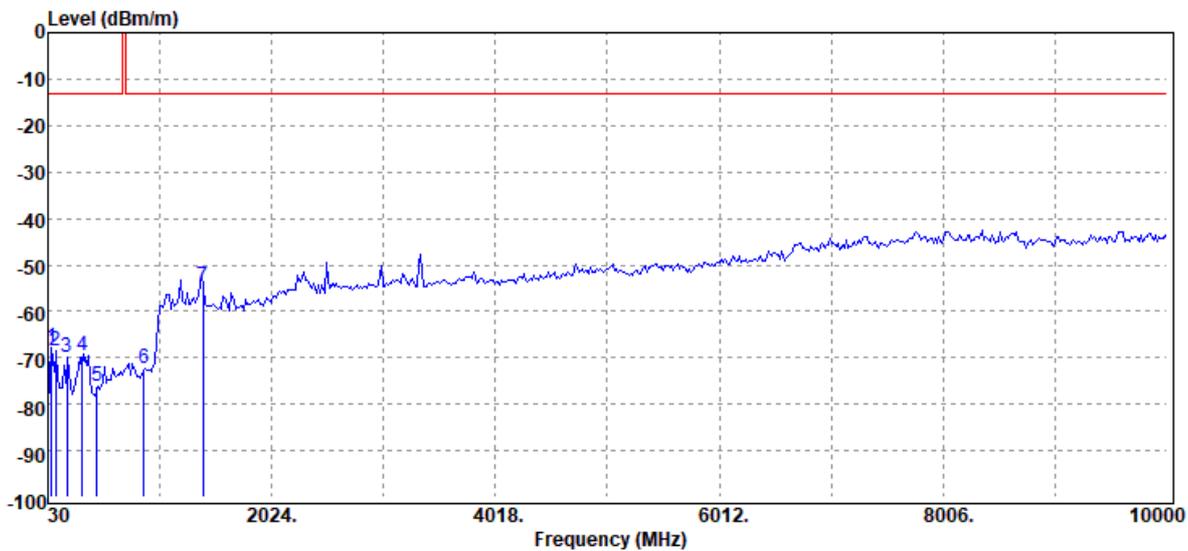
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Report Number :ER/2019/C0117
 Operation Mode :LTE B12/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :707.5 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



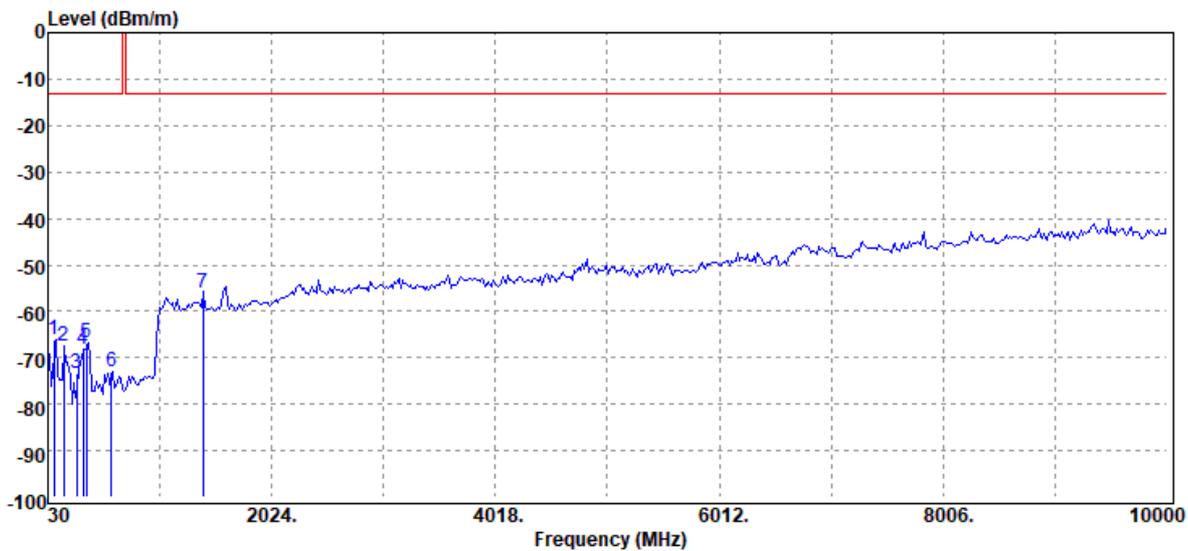
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-67.94	-53.76	-13.40	-0.78	-13.00	-54.94
95.96	-68.44	-61.80	-5.69	-0.95	-13.00	-55.44
197.81	-69.82	-66.10	-2.34	-1.38	-13.00	-56.82
337.49	-69.57	-66.05	-1.63	-1.89	-13.00	-56.57
469.41	-76.22	-72.46	-1.50	-2.26	-13.00	-63.22
884.57	-72.48	-68.20	-1.70	-2.58	-13.00	-59.48
1415.00	-54.74	-58.97	7.93	-3.70	-13.00	-41.74

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Report Number	:ER/2019/C0117	Test Date	:2020-01-07
Operation Mode	:LTE B12/802.11b	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:707.5 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-66.13	-58.73	-6.50	-0.90	-13.00	-53.13
168.71	-67.31	-59.92	-6.09	-1.30	-13.00	-54.31
288.99	-73.35	-69.87	-1.80	-1.68	-13.00	-60.35
347.19	-68.24	-64.82	-1.53	-1.89	-13.00	-55.24
373.38	-66.73	-63.19	-1.63	-1.91	-13.00	-53.73
593.57	-72.89	-69.09	-1.74	-2.06	-13.00	-59.89
1415.00	-56.03	-60.26	7.93	-3.70	-13.00	-43.03

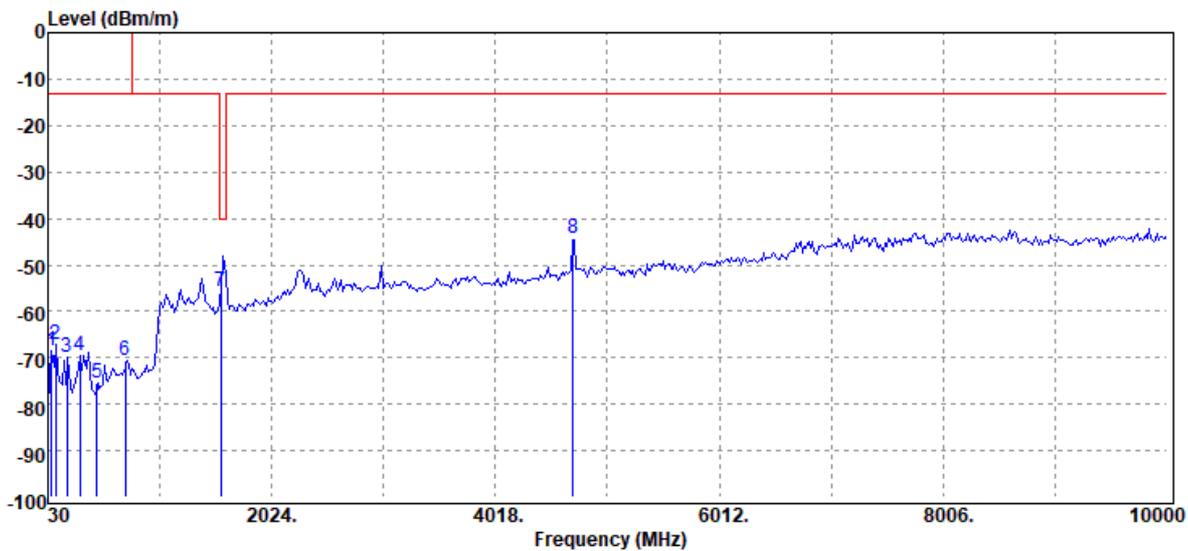
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Report Number :ER/2019/C0117
 Operation Mode :LTE B13/802.11b
 Test Mode :Tx CH High/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :784.5 MHz/2437 MHz

Test Date :2020-01-07
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



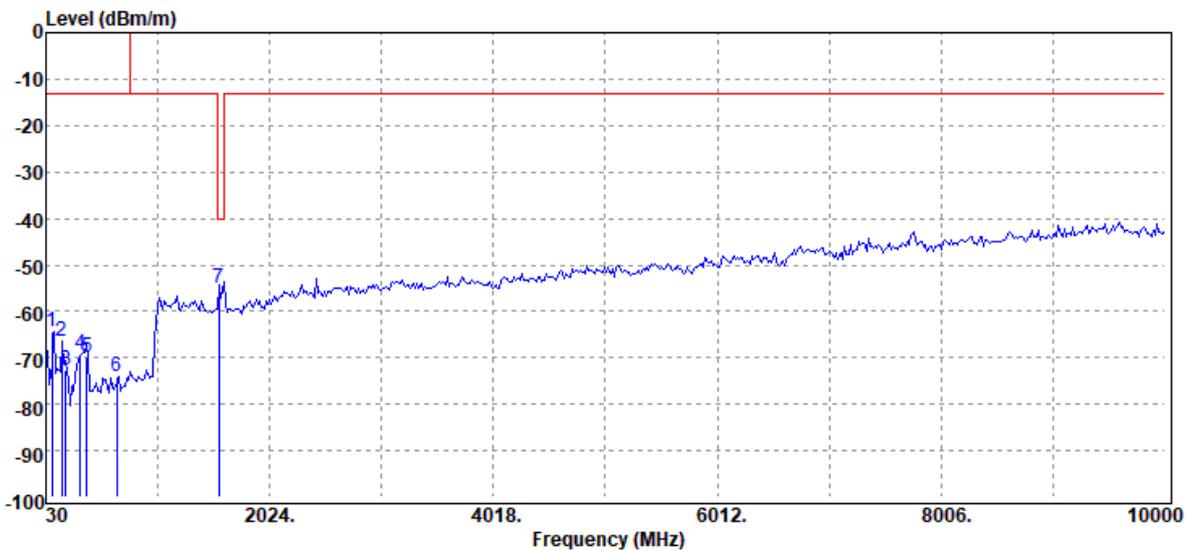
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-68.34	-54.16	-13.40	-0.78	-13.00	-55.34
95.96	-67.23	-60.59	-5.69	-0.95	-13.00	-54.23
197.81	-69.99	-66.27	-2.34	-1.38	-13.00	-56.99
313.24	-69.39	-66.12	-1.62	-1.65	-13.00	-56.39
469.41	-75.28	-71.52	-1.50	-2.26	-13.00	-62.28
721.61	-70.55	-66.79	-1.37	-2.39	-13.00	-57.55
1569.00	-55.66	-60.90	9.14	-3.90	-40.00	-15.66
4707.00	-44.18	-49.43	12.03	-6.78	-13.00	-31.18

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Report Number	:ER/2019/C0117	Test Date	:2020-01-07
Operation Mode	:LTE B13/802.11b	Temp./Humi.	:21.8/61
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:784.5 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-64.24	-56.84	-6.50	-0.90	-13.00	-51.24
168.71	-66.52	-59.13	-6.09	-1.30	-13.00	-53.52
206.54	-72.62	-69.40	-1.81	-1.41	-13.00	-59.62
337.49	-69.14	-65.62	-1.63	-1.89	-13.00	-56.14
395.69	-69.77	-66.21	-1.61	-1.95	-13.00	-56.77
661.47	-74.00	-69.42	-1.40	-3.18	-13.00	-61.00
1569.00	-54.85	-60.09	9.14	-3.90	-40.00	-14.85

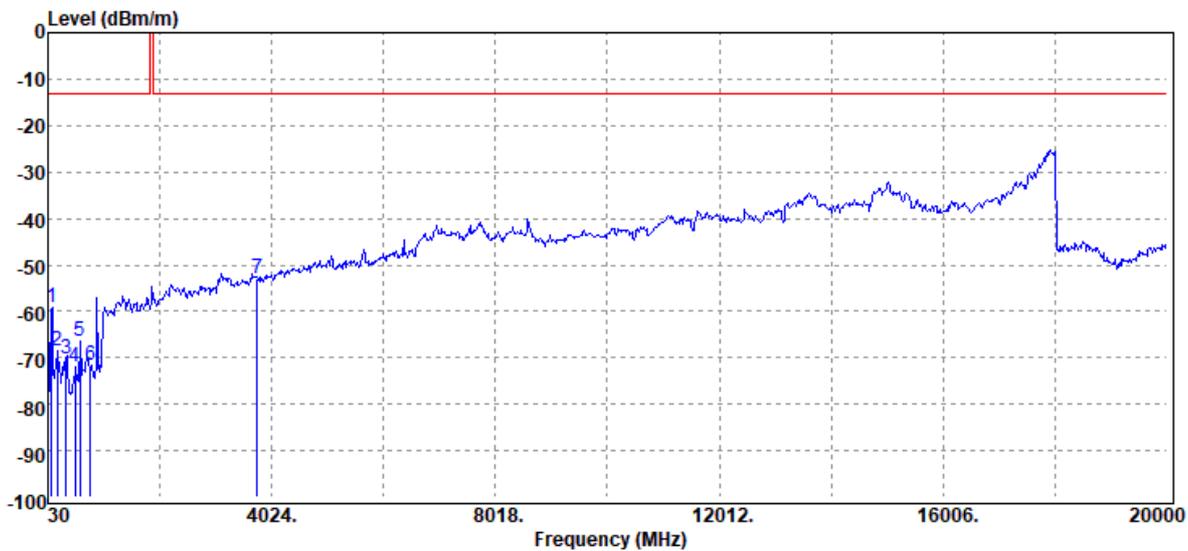
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Report Number :ER/2019/C0117
 Operation Mode :LTE B25/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1882.5 MHz/2437 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



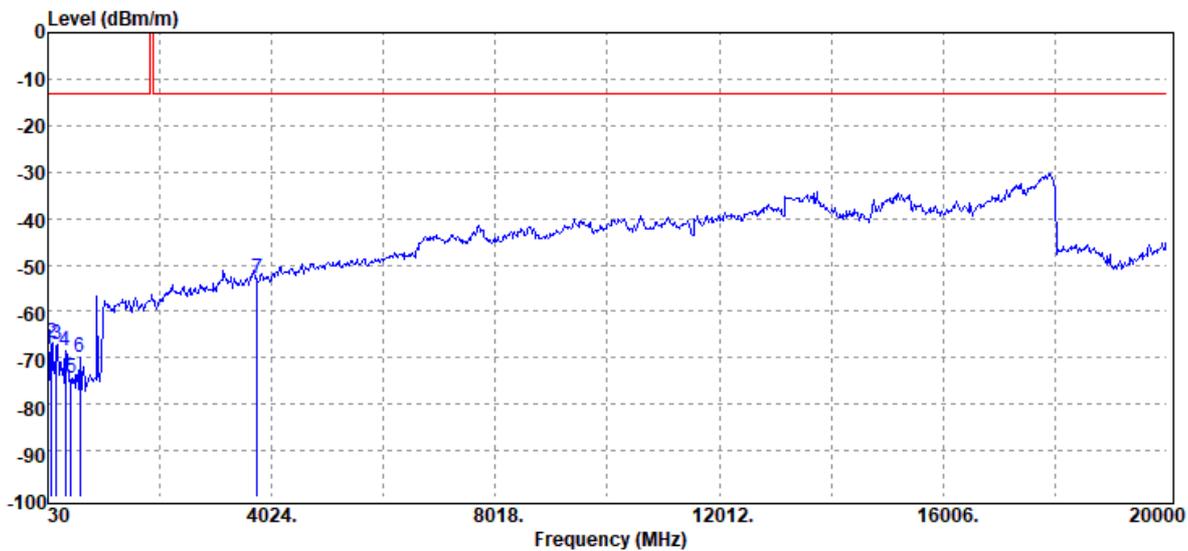
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.10	-52.46	-5.69	-0.95	-13.00	-46.10
197.81	-68.63	-64.91	-2.34	-1.38	-13.00	-55.63
348.16	-70.33	-66.94	-1.50	-1.89	-13.00	-57.33
516.94	-72.05	-68.02	-1.45	-2.58	-13.00	-59.05
594.54	-66.34	-62.49	-1.75	-2.10	-13.00	-53.34
794.36	-71.50	-66.80	-1.64	-3.06	-13.00	-58.50
3765.00	-52.77	-59.05	12.30	-6.02	-13.00	-39.77

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B25/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1882.5 MHz/2437 MHz		



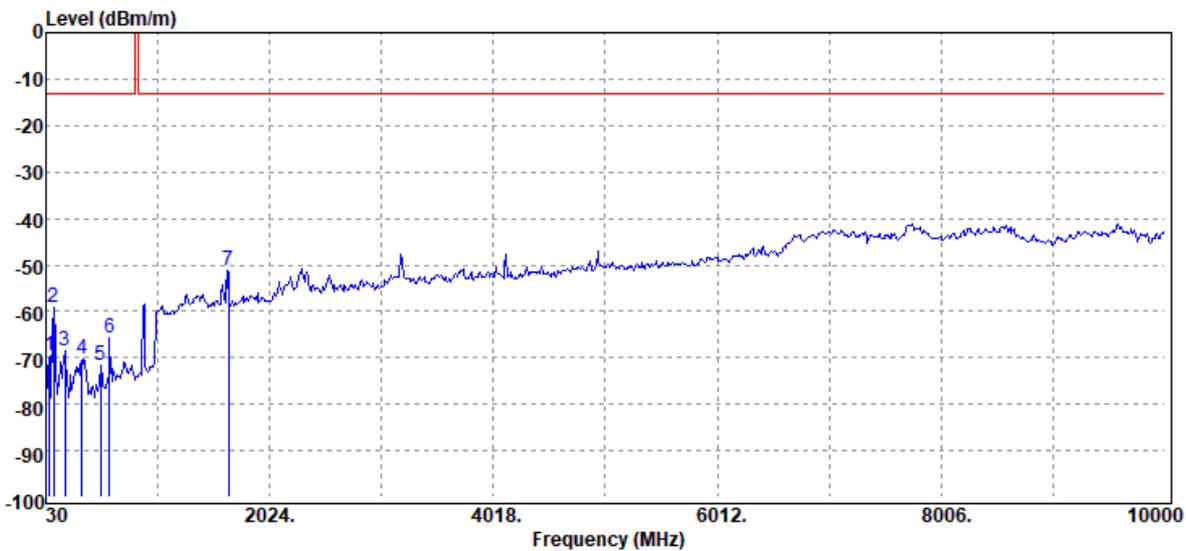
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-68.02	-46.30	-21.20	-0.52	-13.00	-55.02
95.96	-66.94	-60.30	-5.69	-0.95	-13.00	-53.94
180.35	-67.11	-61.71	-4.15	-1.25	-13.00	-54.11
337.49	-68.41	-64.89	-1.63	-1.89	-13.00	-55.41
445.16	-74.43	-70.84	-1.67	-1.92	-13.00	-61.43
594.54	-69.84	-65.99	-1.75	-2.10	-13.00	-56.84
3765.00	-53.10	-59.38	12.30	-6.02	-13.00	-40.10

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:829 MHz/2437 MHz		



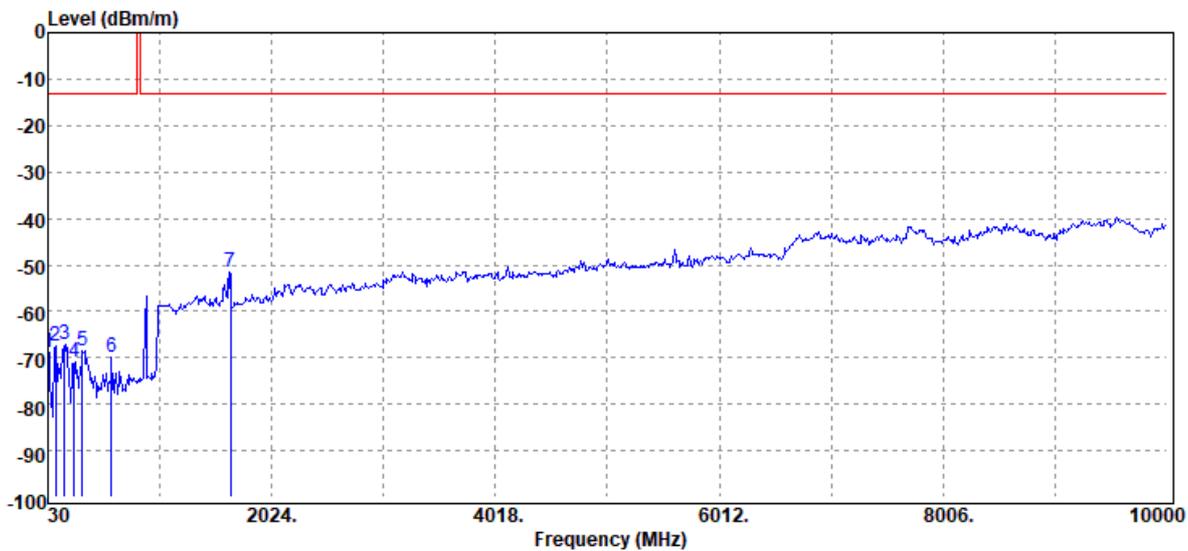
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-69.44	-54.65	-14.03	-0.76	-13.00	-56.44
95.96	-59.33	-52.69	-5.69	-0.95	-13.00	-46.33
197.81	-68.48	-64.76	-2.34	-1.38	-13.00	-55.48
350.10	-70.35	-66.99	-1.46	-1.90	-13.00	-57.35
516.94	-71.49	-67.46	-1.45	-2.58	-13.00	-58.49
594.54	-65.73	-61.88	-1.75	-2.10	-13.00	-52.73
1658.00	-51.05	-56.39	9.36	-4.02	-13.00	-38.05

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:829 MHz/2437 MHz		



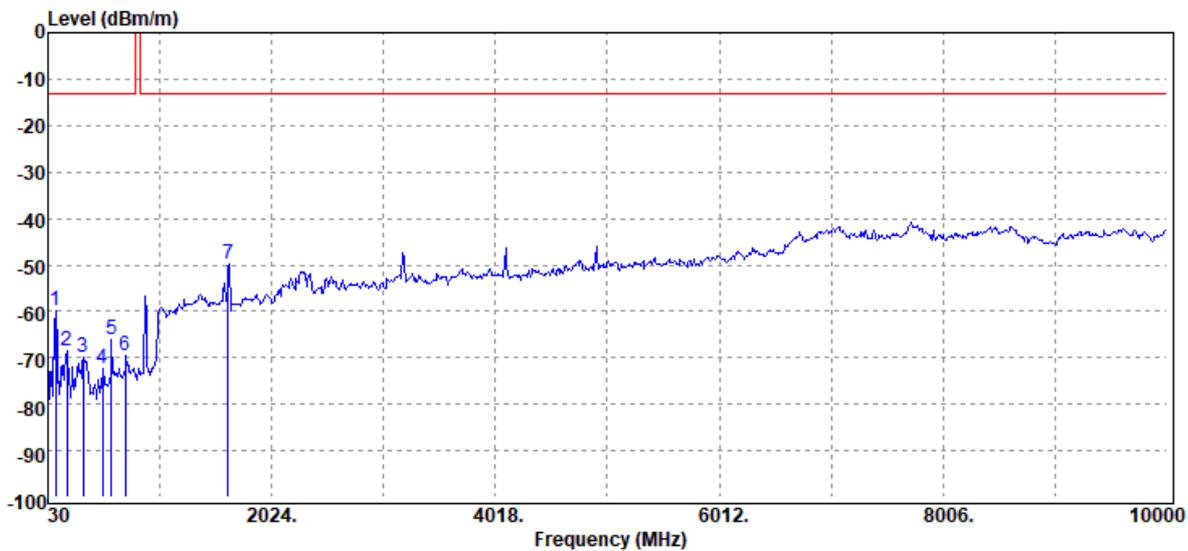
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-68.70	-47.64	-20.49	-0.57	-13.00	-55.70
95.96	-67.34	-60.70	-5.69	-0.95	-13.00	-54.34
180.35	-67.12	-61.72	-4.15	-1.25	-13.00	-54.12
264.74	-70.94	-67.55	-1.77	-1.62	-13.00	-57.94
337.49	-68.57	-65.05	-1.63	-1.89	-13.00	-55.57
594.54	-69.80	-65.95	-1.75	-2.10	-13.00	-56.80
1658.00	-51.48	-56.82	9.36	-4.02	-13.00	-38.48

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:819 MHz/2437 MHz		

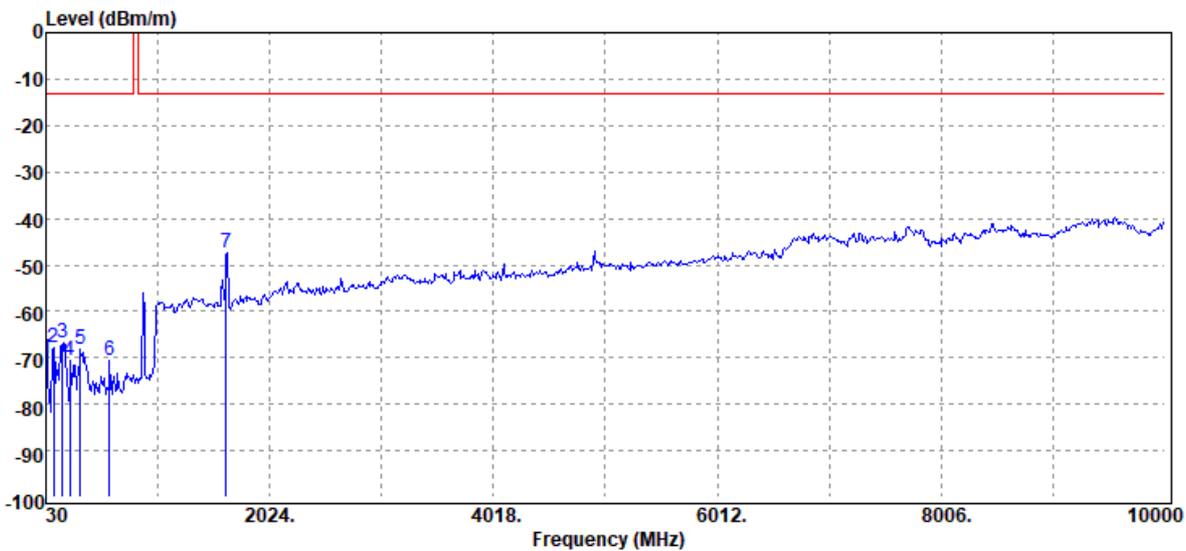


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.71	-53.07	-5.69	-0.95	-13.00	-46.71
197.81	-68.35	-64.63	-2.34	-1.38	-13.00	-55.35
343.31	-70.05	-66.57	-1.59	-1.89	-13.00	-57.05
516.94	-72.36	-68.33	-1.45	-2.58	-13.00	-59.36
594.54	-66.13	-62.28	-1.75	-2.10	-13.00	-53.13
721.61	-69.44	-65.68	-1.37	-2.39	-13.00	-56.44
1638.00	-49.81	-55.09	9.28	-4.00	-13.00	-36.81

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:819 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-70.27	-49.21	-20.49	-0.57	-13.00	-57.27
95.96	-67.75	-61.11	-5.69	-0.95	-13.00	-54.75
180.35	-66.89	-61.49	-4.15	-1.25	-13.00	-53.89
240.49	-70.70	-67.54	-1.73	-1.43	-13.00	-57.70
337.49	-68.01	-64.49	-1.63	-1.89	-13.00	-55.01
594.54	-70.44	-66.59	-1.75	-2.10	-13.00	-57.44
1638.00	-47.56	-52.84	9.28	-4.00	-13.00	-34.56

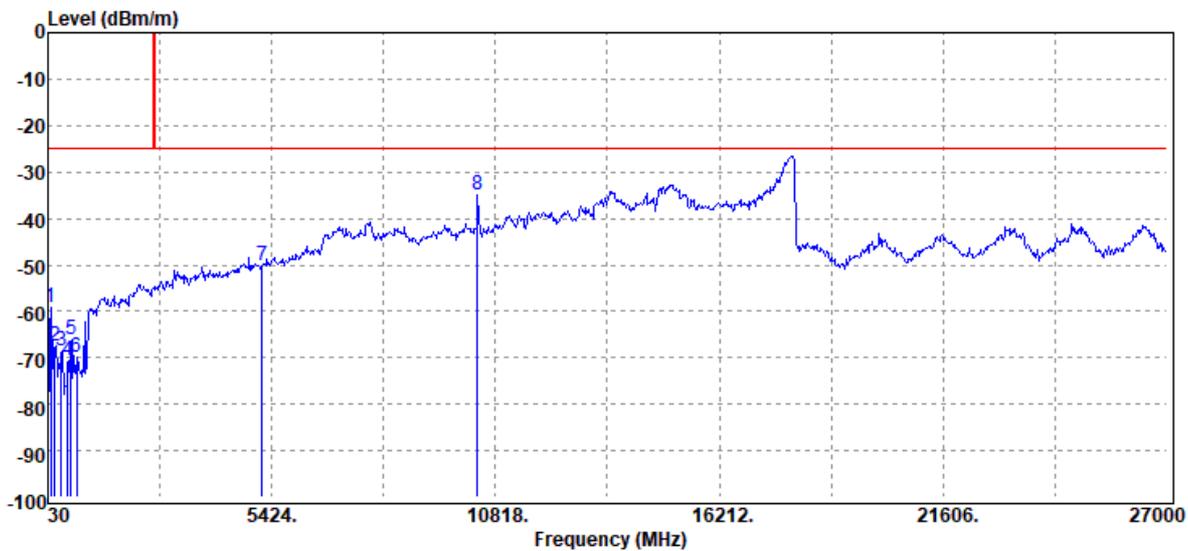
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Report Number :ER/2019/C0117
 Operation Mode :LTE B38/802.11b
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :2595 MHz/2437 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



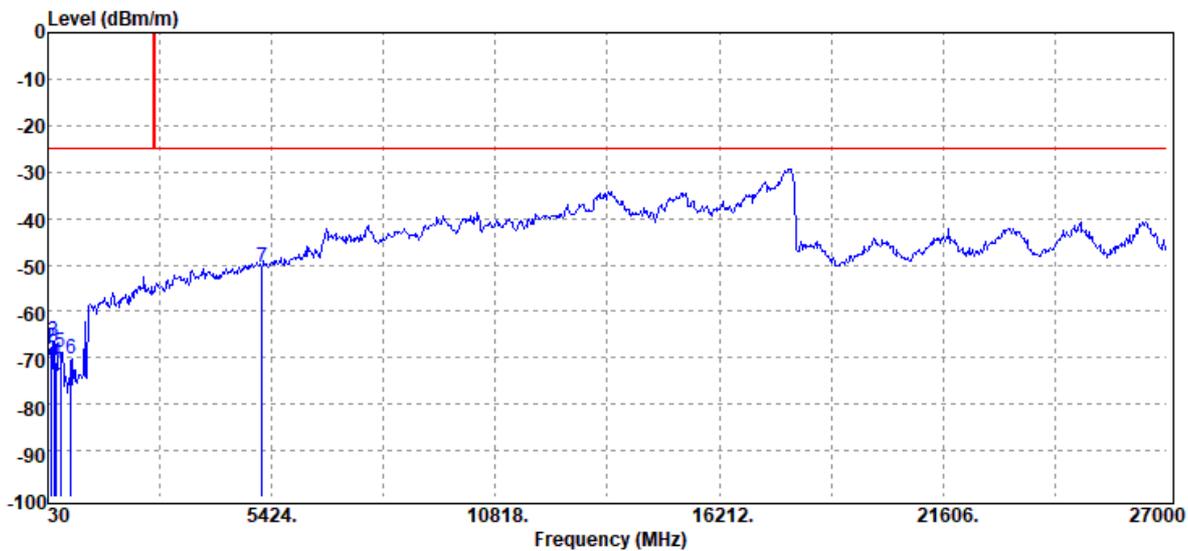
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.22	-52.58	-5.69	-0.95	-25.00	-34.22
197.81	-67.47	-63.75	-2.34	-1.38	-25.00	-42.47
350.10	-68.66	-65.30	-1.46	-1.90	-25.00	-43.66
516.94	-70.63	-66.60	-1.45	-2.58	-25.00	-45.63
594.54	-66.22	-62.37	-1.75	-2.10	-25.00	-41.22
721.61	-69.92	-66.16	-1.37	-2.39	-25.00	-44.92
5190.00	-50.00	-55.09	12.26	-7.17	-25.00	-25.00
10380.00	-34.91	-36.01	11.04	-9.94	-25.00	-9.91

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B38/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2595 MHz/2437 MHz		



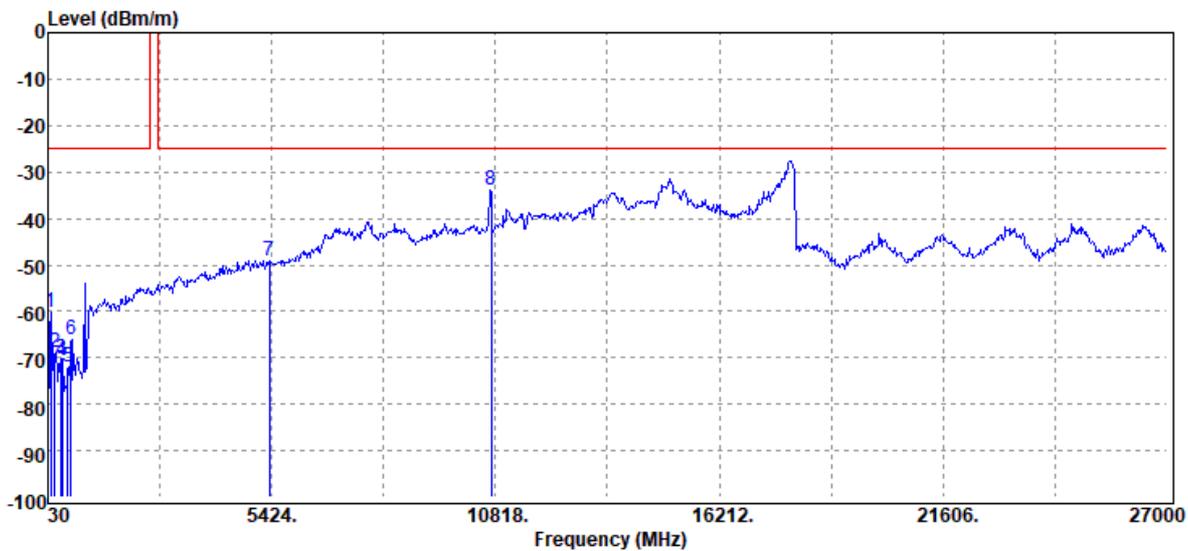
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-68.22	-46.50	-21.20	-0.52	-25.00	-43.22
95.96	-67.73	-61.09	-5.69	-0.95	-25.00	-42.73
180.35	-66.57	-61.17	-4.15	-1.25	-25.00	-41.57
240.49	-70.88	-67.72	-1.73	-1.43	-25.00	-45.88
337.49	-68.95	-65.43	-1.63	-1.89	-25.00	-43.95
594.54	-70.27	-66.42	-1.75	-2.10	-25.00	-45.27
5190.00	-50.41	-55.50	12.26	-7.17	-25.00	-25.41

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B41/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2680 MHz/2437 MHz		



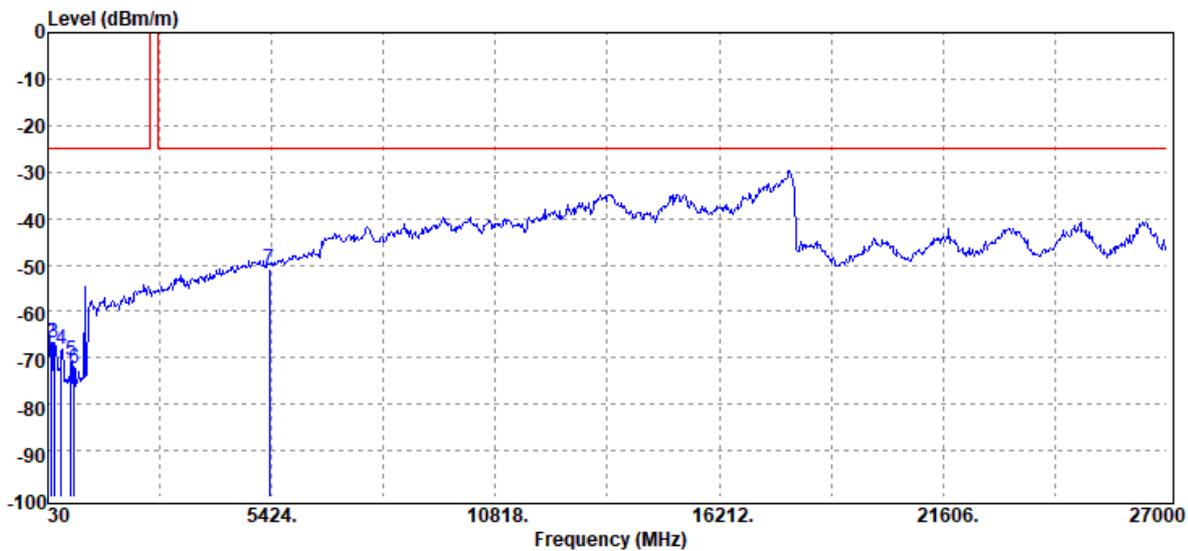
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-60.04	-53.40	-5.69	-0.95	-25.00	-35.04
197.81	-68.90	-65.18	-2.34	-1.38	-25.00	-43.90
343.31	-70.07	-66.59	-1.59	-1.89	-25.00	-45.07
372.41	-70.57	-67.04	-1.62	-1.91	-25.00	-45.57
516.94	-72.08	-68.05	-1.45	-2.58	-25.00	-47.08
594.54	-66.26	-62.41	-1.75	-2.10	-25.00	-41.26
5360.00	-48.98	-54.58	12.90	-7.30	-25.00	-23.98
10720.00	-33.78	-34.56	11.16	-10.38	-25.00	-8.78

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B41/802.11b	Temp./Humi.	:18.1/57
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2680 MHz/2437 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-69.38	-47.82	-21.02	-0.54	-25.00	-44.38
95.96	-66.68	-60.04	-5.69	-0.95	-25.00	-41.68
180.35	-66.84	-61.44	-4.15	-1.25	-25.00	-41.84
350.10	-68.26	-64.90	-1.46	-1.90	-25.00	-43.26
594.54	-70.62	-66.77	-1.75	-2.10	-25.00	-45.62
662.44	-72.47	-67.95	-1.37	-3.15	-25.00	-47.47
5360.00	-50.72	-56.32	12.90	-7.30	-25.00	-25.72

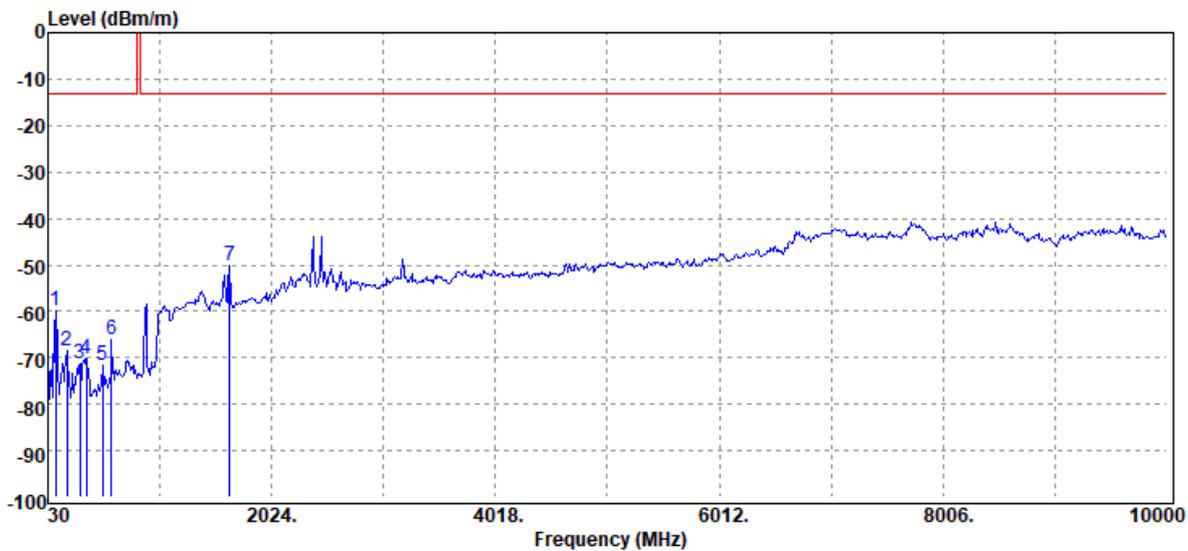
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Co-location (WWAN+5G)

Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:GSM 850/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:824.2 MHz/5785 MHz		

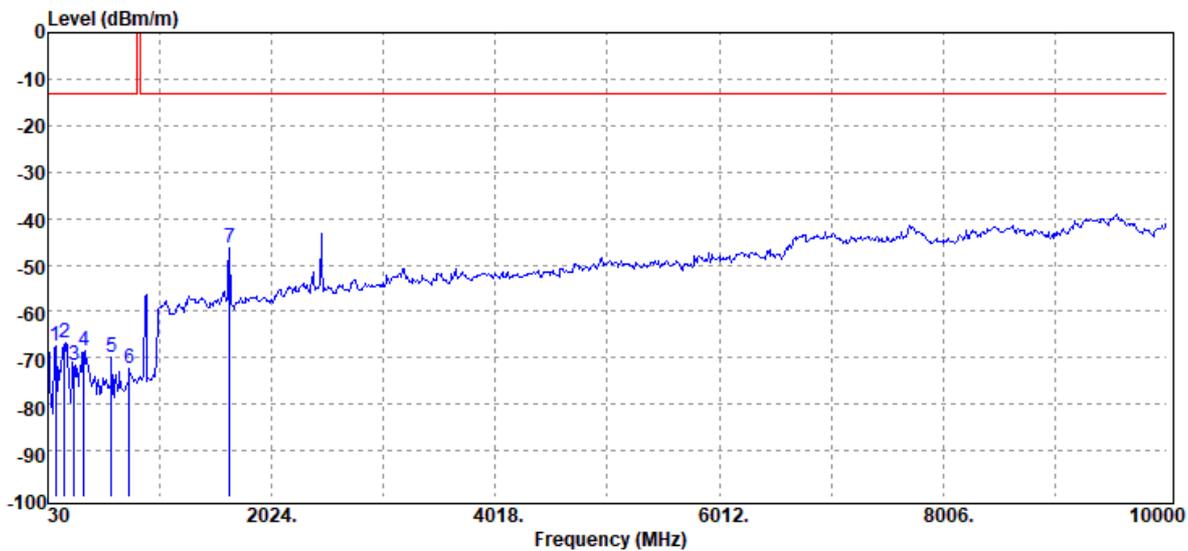


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.97	-53.33	-5.69	-0.95	-13.00	-46.97
197.81	-68.49	-64.77	-2.34	-1.38	-13.00	-55.49
313.24	-71.32	-68.05	-1.62	-1.65	-13.00	-58.32
372.41	-70.20	-66.67	-1.62	-1.91	-13.00	-57.20
516.94	-71.55	-67.52	-1.45	-2.58	-13.00	-58.55
594.54	-65.96	-62.11	-1.75	-2.10	-13.00	-52.96
1648.40	-50.28	-55.57	9.30	-4.01	-13.00	-37.28

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:GSM 850/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:824.2 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.50	-60.86	-5.69	-0.95	-13.00	-54.50
180.35	-66.65	-61.25	-4.15	-1.25	-13.00	-53.65
264.74	-71.70	-68.31	-1.77	-1.62	-13.00	-58.70
350.10	-68.43	-65.07	-1.46	-1.90	-13.00	-55.43
594.54	-69.98	-66.13	-1.75	-2.10	-13.00	-56.98
757.50	-72.48	-68.08	-1.80	-2.60	-13.00	-59.48
1648.40	-46.42	-51.71	9.30	-4.01	-13.00	-33.42

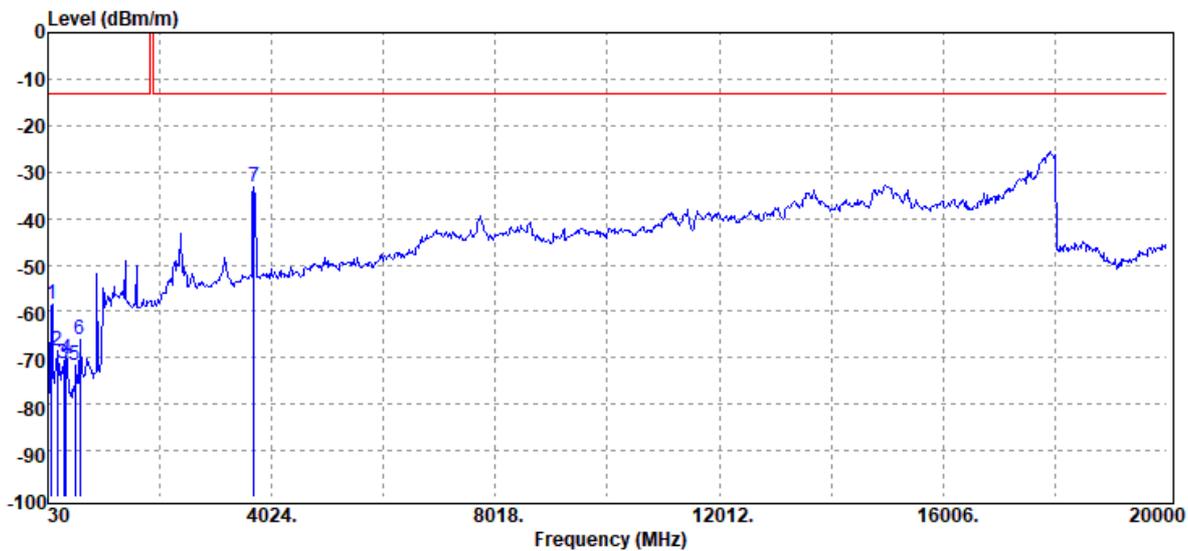
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Report Number :ER/2019/C0117
 Operation Mode :GSM 1900/802.11aB4
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1850.2 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.63	-51.99	-5.69	-0.95	-13.00	-45.63
197.81	-68.53	-64.81	-2.34	-1.38	-13.00	-55.53
313.24	-71.19	-67.92	-1.62	-1.65	-13.00	-58.19
350.10	-70.17	-66.81	-1.46	-1.90	-13.00	-57.17
516.94	-71.55	-67.52	-1.45	-2.58	-13.00	-58.55
594.54	-66.04	-62.19	-1.75	-2.10	-13.00	-53.04
3700.40	-33.31	-39.78	12.40	-5.93	-13.00	-20.31

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

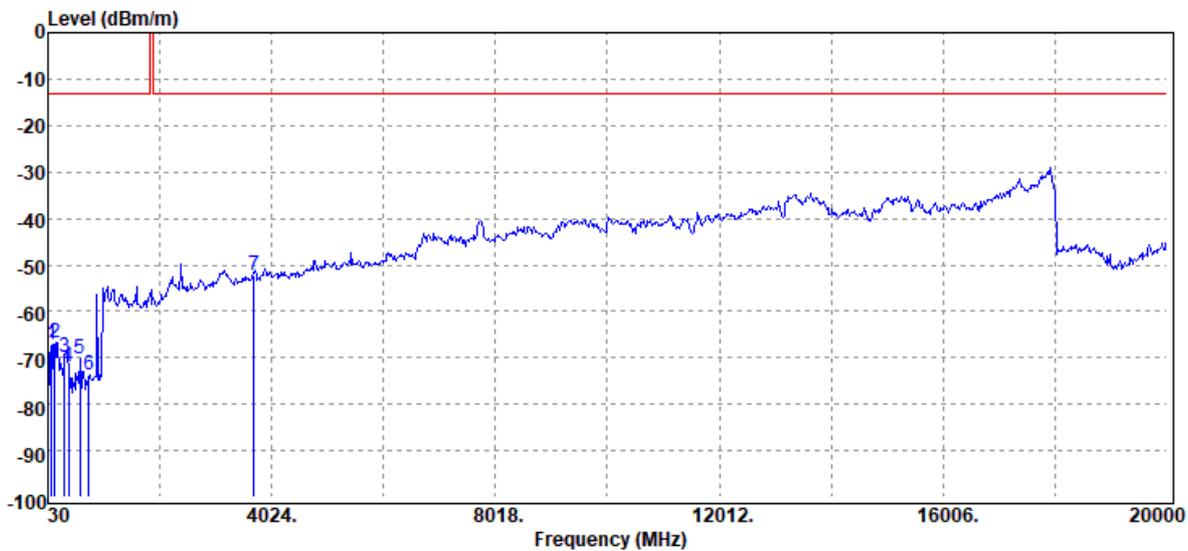
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Report Number :ER/2019/C0117
 Operation Mode :GSM 1900/802.11aB4
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1850.2 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.09	-60.45	-5.69	-0.95	-13.00	-54.09
159.01	-66.67	-58.30	-7.01	-1.36	-13.00	-53.67
319.06	-69.74	-66.29	-1.71	-1.74	-13.00	-56.74
395.69	-71.86	-68.30	-1.61	-1.95	-13.00	-58.86
594.54	-70.10	-66.25	-1.75	-2.10	-13.00	-57.10
757.50	-73.75	-69.35	-1.80	-2.60	-13.00	-60.75
3700.40	-52.27	-58.74	12.40	-5.93	-13.00	-39.27

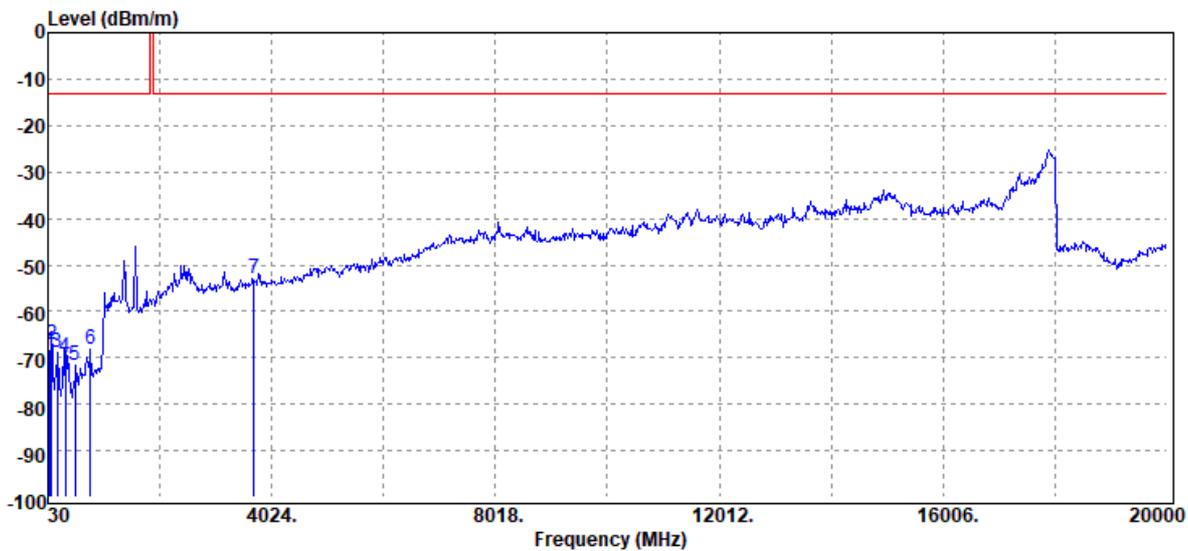
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B2/802.11aB4
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1852.4 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	-68.62	-52.63	-15.26	-0.73	-13.00	-55.62
95.96	-67.13	-60.49	-5.69	-0.95	-13.00	-54.13
197.81	-68.79	-65.07	-2.34	-1.38	-13.00	-55.79
343.31	-69.73	-66.25	-1.59	-1.89	-13.00	-56.73
516.94	-71.79	-67.76	-1.45	-2.58	-13.00	-58.79
781.75	-68.24	-63.83	-1.68	-2.73	-13.00	-55.24
3704.80	-52.99	-59.44	12.39	-5.94	-13.00	-39.99

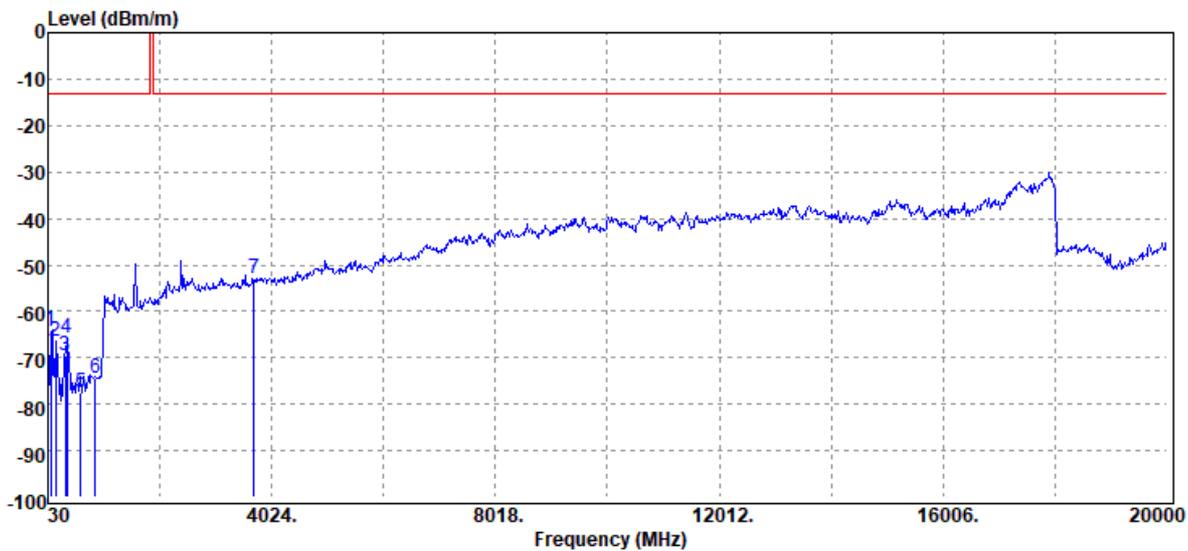
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B2/802.11aB4
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1852.4 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-64.06	-56.40	-6.77	-0.89	-13.00	-51.06
165.80	-66.30	-58.52	-6.45	-1.33	-13.00	-53.30
333.61	-69.65	-66.06	-1.68	-1.91	-13.00	-56.65
367.56	-65.76	-62.27	-1.58	-1.91	-13.00	-52.76
613.94	-77.50	-73.09	-1.87	-2.54	-13.00	-64.50
880.69	-74.31	-70.06	-1.74	-2.51	-13.00	-61.31
3704.80	-53.02	-59.47	12.39	-5.94	-13.00	-40.02

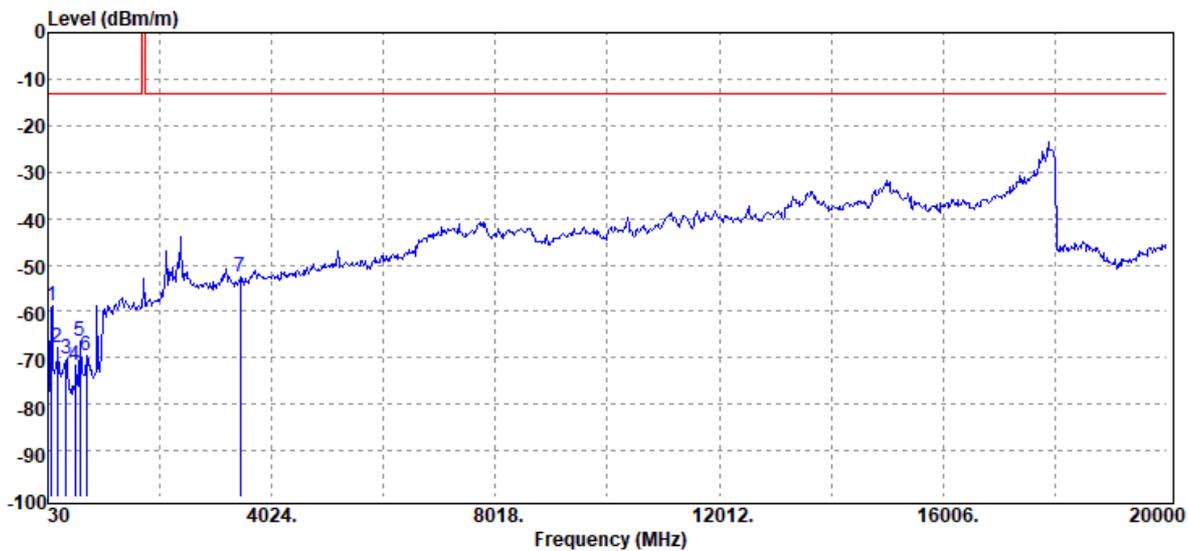
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B4/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.4 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.74	-52.10	-5.69	-0.95	-13.00	-45.74
197.81	-67.65	-63.93	-2.34	-1.38	-13.00	-54.65
350.10	-70.18	-66.82	-1.46	-1.90	-13.00	-57.18
516.94	-71.68	-67.65	-1.45	-2.58	-13.00	-58.68
594.54	-66.28	-62.43	-1.75	-2.10	-13.00	-53.28
721.61	-69.48	-65.72	-1.37	-2.39	-13.00	-56.48
3464.80	-52.71	-59.33	12.37	-5.75	-13.00	-39.71

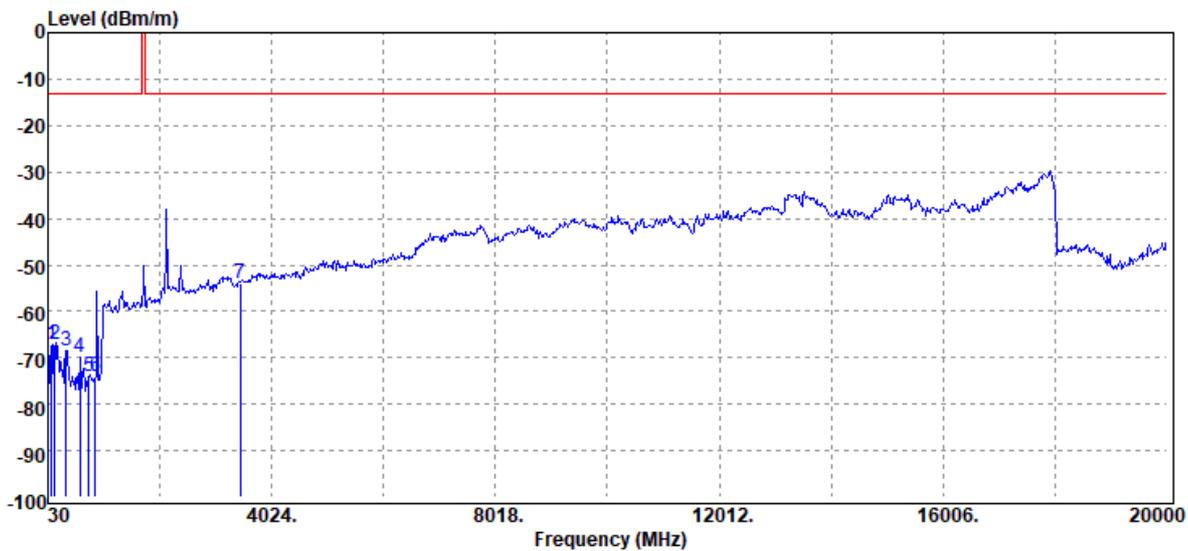
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B4/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.4 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.28	-60.64	-5.69	-0.95	-13.00	-54.28
159.01	-67.15	-58.78	-7.01	-1.36	-13.00	-54.15
350.10	-68.47	-65.11	-1.46	-1.90	-13.00	-55.47
594.54	-69.98	-66.13	-1.75	-2.10	-13.00	-56.98
757.50	-73.90	-69.50	-1.80	-2.60	-13.00	-60.90
871.96	-74.10	-69.92	-1.67	-2.51	-13.00	-61.10
3464.80	-53.81	-60.43	12.37	-5.75	-13.00	-40.81

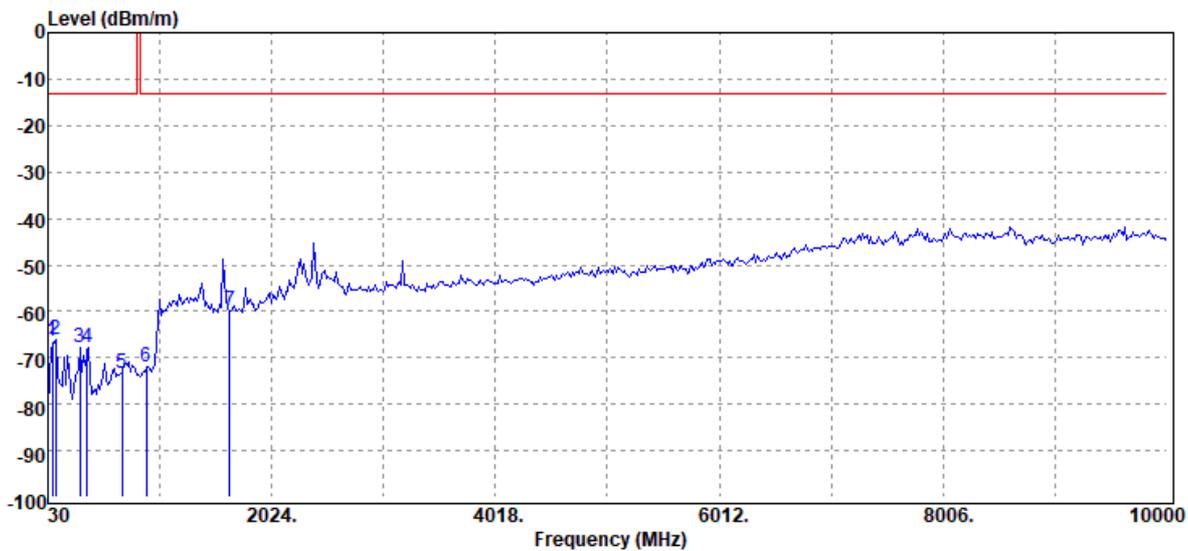
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B5/802.11aB4
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :826.4 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-66.51	-52.57	-13.15	-0.79	-13.00	-53.51
98.87	-66.10	-59.11	-6.02	-0.97	-13.00	-53.10
312.27	-67.90	-64.61	-1.65	-1.64	-13.00	-54.90
379.20	-67.88	-64.32	-1.64	-1.92	-13.00	-54.88
687.66	-73.23	-69.45	-1.29	-2.49	-13.00	-60.23
907.85	-71.85	-67.19	-1.84	-2.82	-13.00	-58.85
1652.80	-59.74	-65.05	9.32	-4.01	-13.00	-46.74

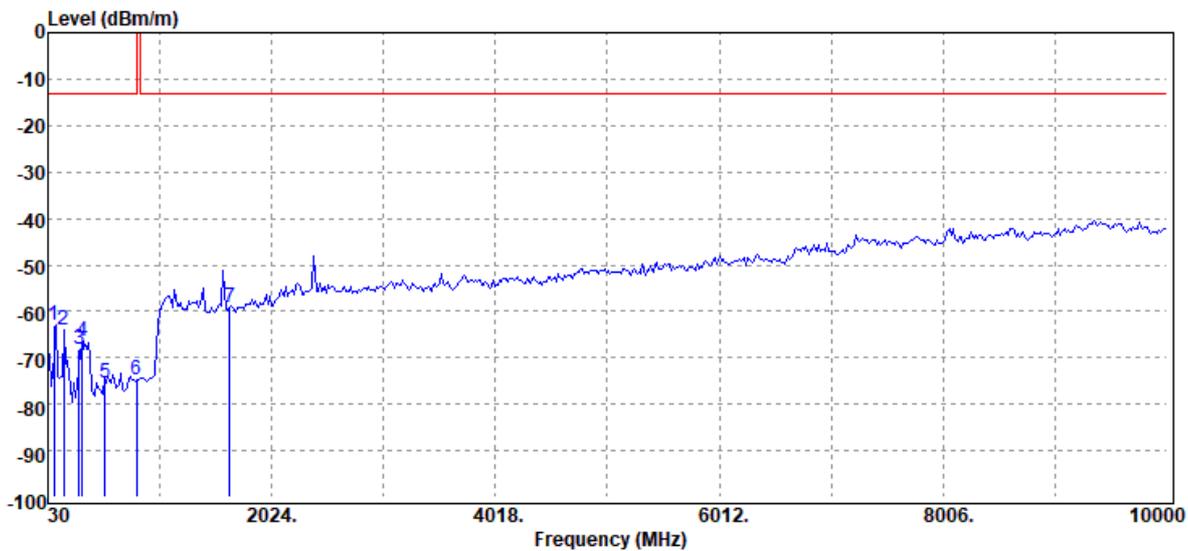
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Report Number :ER/2019/C0117
 Operation Mode :WCDMA B5/802.11aB4
 Test Mode :Tx CH Low/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :826.4 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :HORIZONTAL
 Engineer :Thomas



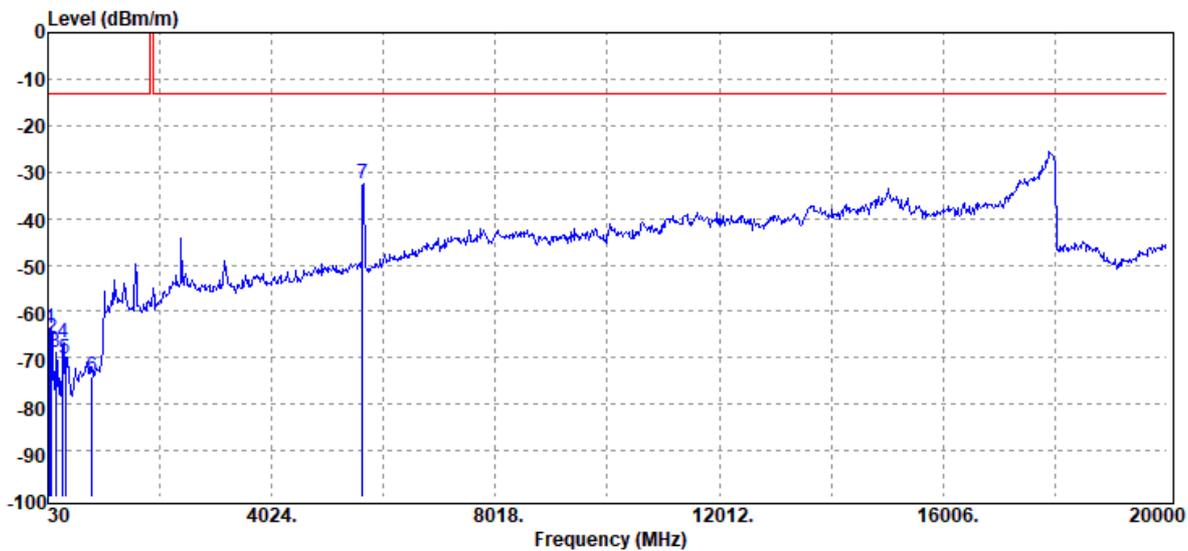
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-63.15	-55.49	-6.77	-0.89	-13.00	-50.15
170.65	-63.96	-56.84	-5.83	-1.29	-13.00	-50.96
311.30	-68.06	-64.77	-1.67	-1.62	-13.00	-55.06
338.46	-66.60	-63.09	-1.62	-1.89	-13.00	-53.60
541.19	-75.43	-71.88	-1.39	-2.16	-13.00	-62.43
818.61	-74.57	-69.77	-1.72	-3.08	-13.00	-61.57
1652.80	-59.12	-64.43	9.32	-4.01	-13.00	-46.12

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Report Number	:ER/2019/C0117	Test Date	:2020-01-08
Operation Mode	:LTE B2/802.11aB4	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1880 MHz/5785 MHz		

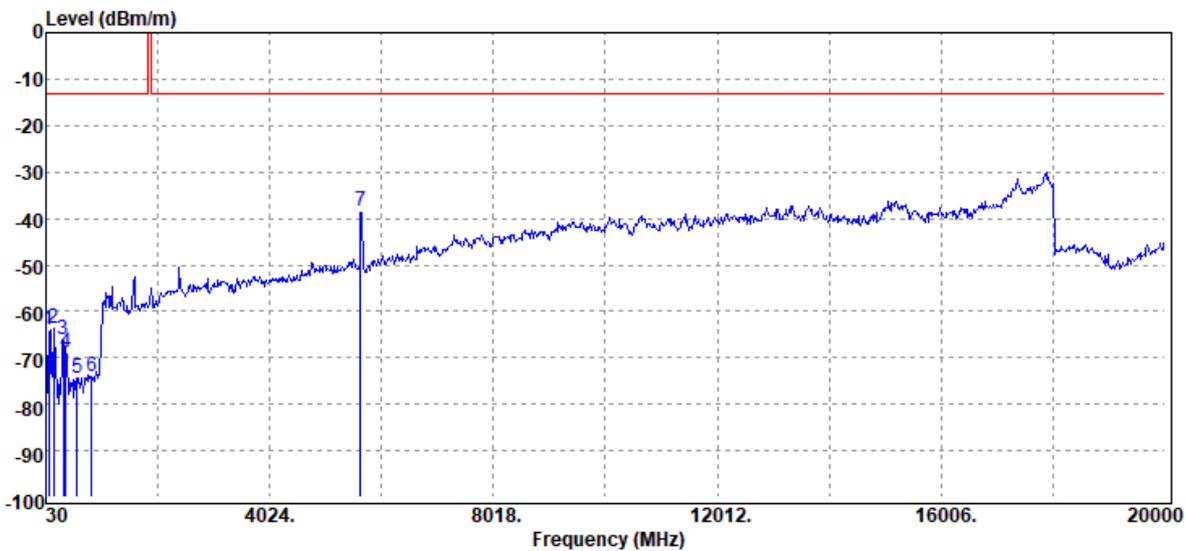


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
67.83	-63.51	-49.87	-12.85	-0.79	-13.00	-50.51
90.14	-65.79	-58.95	-5.93	-0.91	-13.00	-52.79
169.68	-68.69	-61.41	-5.98	-1.30	-13.00	-55.69
290.93	-66.71	-63.24	-1.78	-1.69	-13.00	-53.71
337.49	-70.11	-66.59	-1.63	-1.89	-13.00	-57.11
811.82	-74.18	-69.43	-1.59	-3.16	-13.00	-61.18
5640.00	-32.54	-38.32	13.26	-7.48	-13.00	-19.54

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Report Number	:ER/2019/C0117	Test Date	:2020-01-08
Operation Mode	:LTE B2/802.11aB4	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1880 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-63.85	-56.45	-6.50	-0.90	-13.00	-50.85
171.62	-63.81	-56.90	-5.62	-1.29	-13.00	-50.81
333.61	-66.22	-62.63	-1.68	-1.91	-13.00	-53.22
379.20	-68.96	-65.40	-1.64	-1.92	-13.00	-55.96
589.69	-74.50	-70.85	-1.71	-1.94	-13.00	-61.50
846.74	-73.98	-69.19	-1.68	-3.11	-13.00	-60.98
5640.00	-38.50	-44.28	13.26	-7.48	-13.00	-25.50

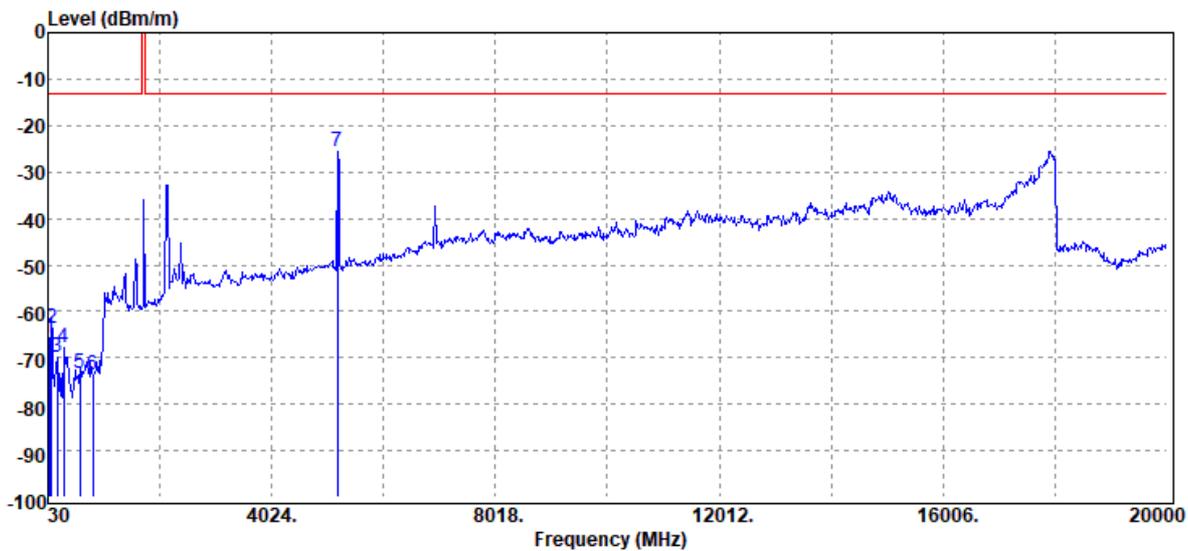
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Report Number :ER/2019/C0117
 Operation Mode :LTE B4/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1732.5 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



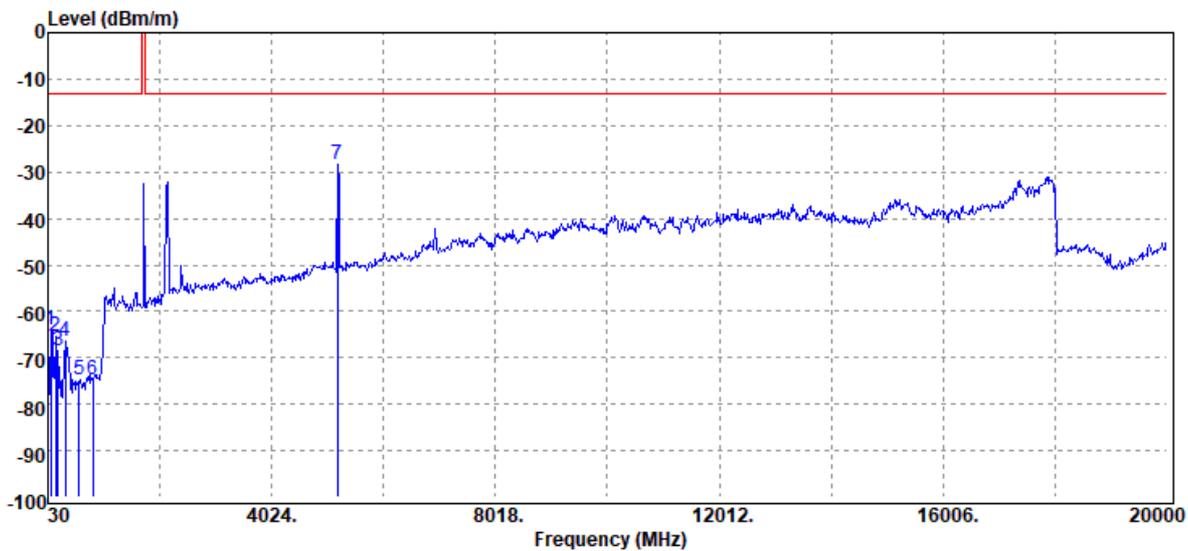
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	-65.59	-49.60	-15.26	-0.73	-13.00	-52.59
91.11	-63.59	-56.92	-5.75	-0.92	-13.00	-50.59
197.81	-69.88	-66.16	-2.34	-1.38	-13.00	-56.88
306.45	-67.73	-64.43	-1.67	-1.63	-13.00	-54.73
601.33	-73.44	-69.21	-1.91	-2.32	-13.00	-60.44
832.19	-73.73	-68.98	-1.78	-2.97	-13.00	-60.73
5197.50	-25.66	-30.77	12.29	-7.18	-13.00	-12.66

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Report Number	:ER/2019/C0117	Test Date	:2020-01-08
Operation Mode	:LTE B4/802.11aB4	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1732.5 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-63.98	-56.32	-6.77	-0.89	-13.00	-50.98
169.68	-65.34	-58.06	-5.98	-1.30	-13.00	-52.34
207.51	-68.59	-65.43	-1.75	-1.41	-13.00	-55.59
343.31	-66.44	-62.96	-1.59	-1.89	-13.00	-53.44
589.69	-74.77	-71.12	-1.71	-1.94	-13.00	-61.77
829.28	-74.77	-70.06	-1.75	-2.96	-13.00	-61.77
5197.50	-28.52	-33.63	12.29	-7.18	-13.00	-15.52

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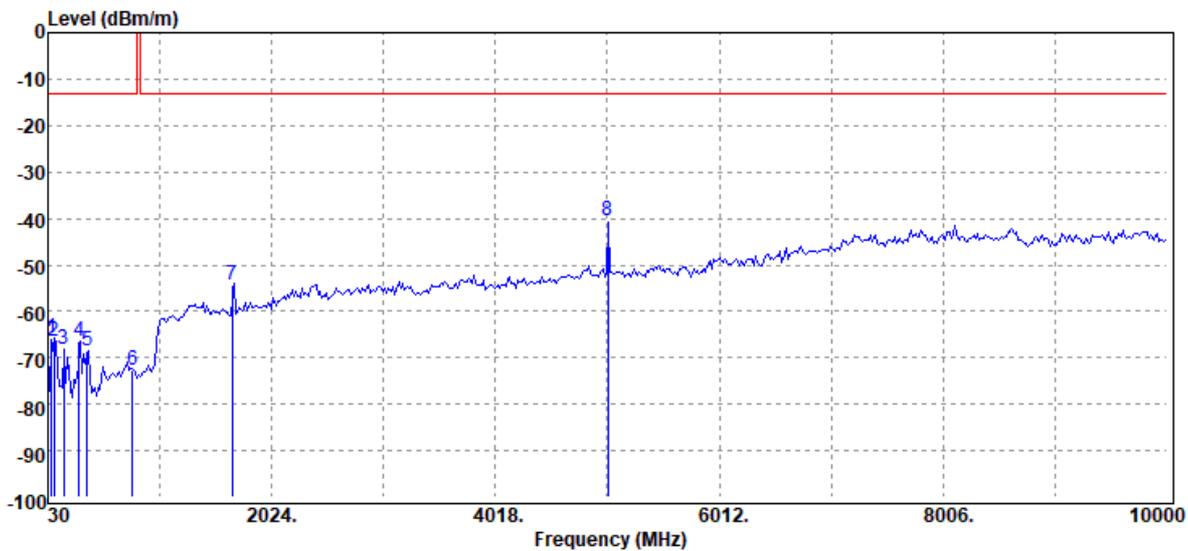
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Report Number :ER/2019/C0117
 Operation Mode :LTE B5/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :836.5 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



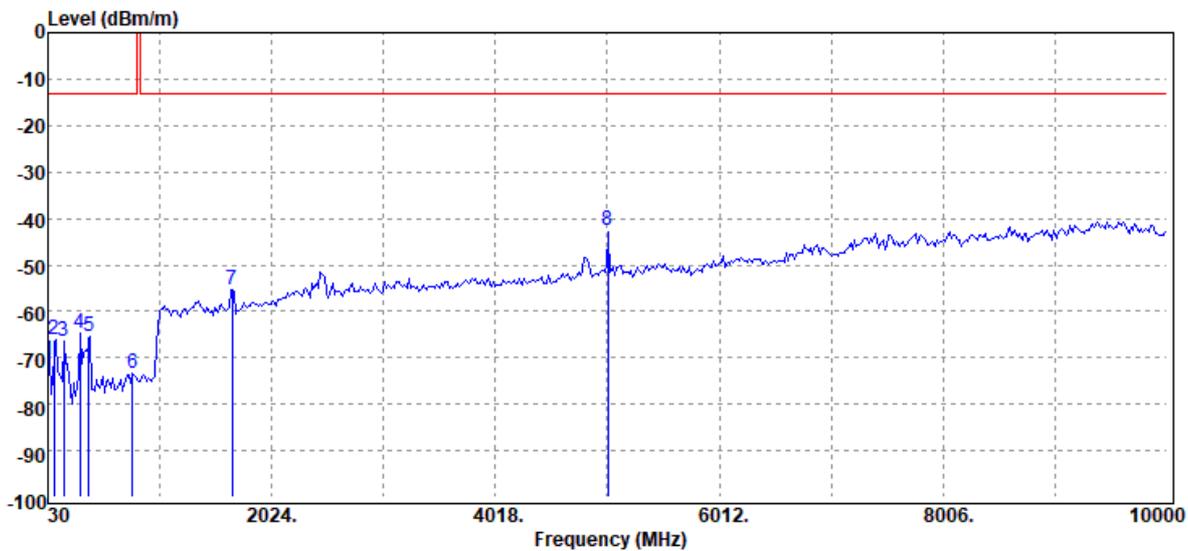
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-65.91	-51.73	-13.40	-0.78	-13.00	-52.91
87.23	-66.27	-58.87	-6.50	-0.90	-13.00	-53.27
169.68	-68.26	-60.98	-5.98	-1.30	-13.00	-55.26
311.30	-66.58	-63.29	-1.67	-1.62	-13.00	-53.58
378.23	-68.46	-64.89	-1.65	-1.92	-13.00	-55.46
781.75	-72.82	-68.41	-1.68	-2.73	-13.00	-59.82
1673.00	-54.47	-59.93	9.49	-4.03	-13.00	-41.47
5019.00	-40.39	-45.69	12.32	-7.02	-13.00	-27.39

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Report Number	:ER/2019/C0117	Test Date	:2020-01-08
Operation Mode	:LTE B5/802.11aB4	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:836.5 MHz/5785 MHz		



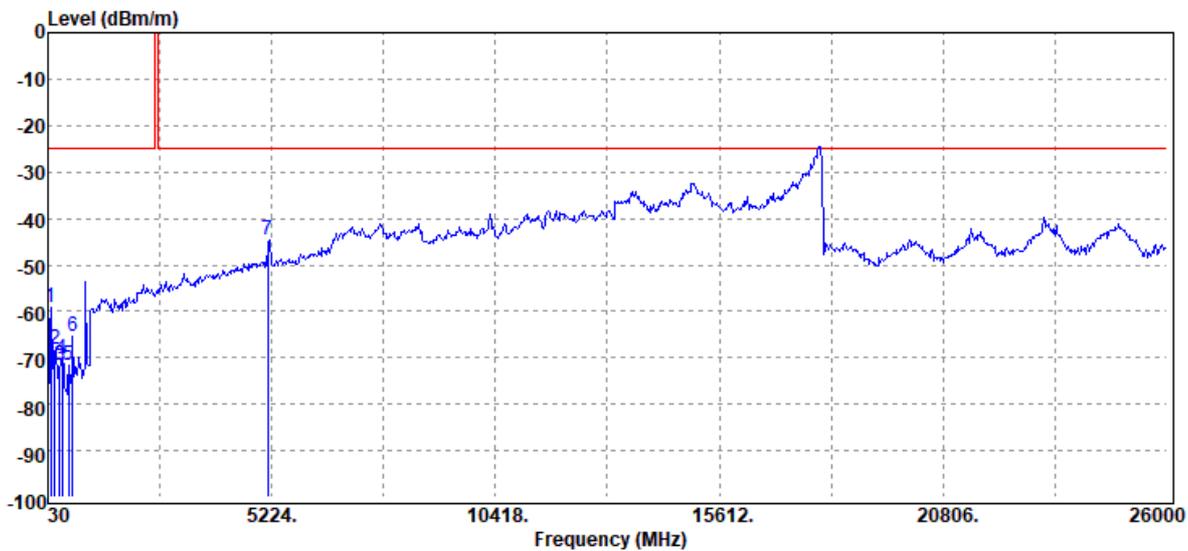
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-70.48	-49.42	-20.49	-0.57	-13.00	-57.48
87.23	-66.16	-58.76	-6.50	-0.90	-13.00	-53.16
171.62	-66.53	-59.62	-5.62	-1.29	-13.00	-53.53
313.24	-64.77	-61.50	-1.62	-1.65	-13.00	-51.77
395.69	-65.24	-61.68	-1.61	-1.95	-13.00	-52.24
781.75	-73.28	-68.87	-1.68	-2.73	-13.00	-60.28
1673.00	-55.27	-60.73	9.49	-4.03	-13.00	-42.27
5019.00	-42.56	-47.86	12.32	-7.02	-13.00	-29.56

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B7/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2565 MHz/5785 MHz		

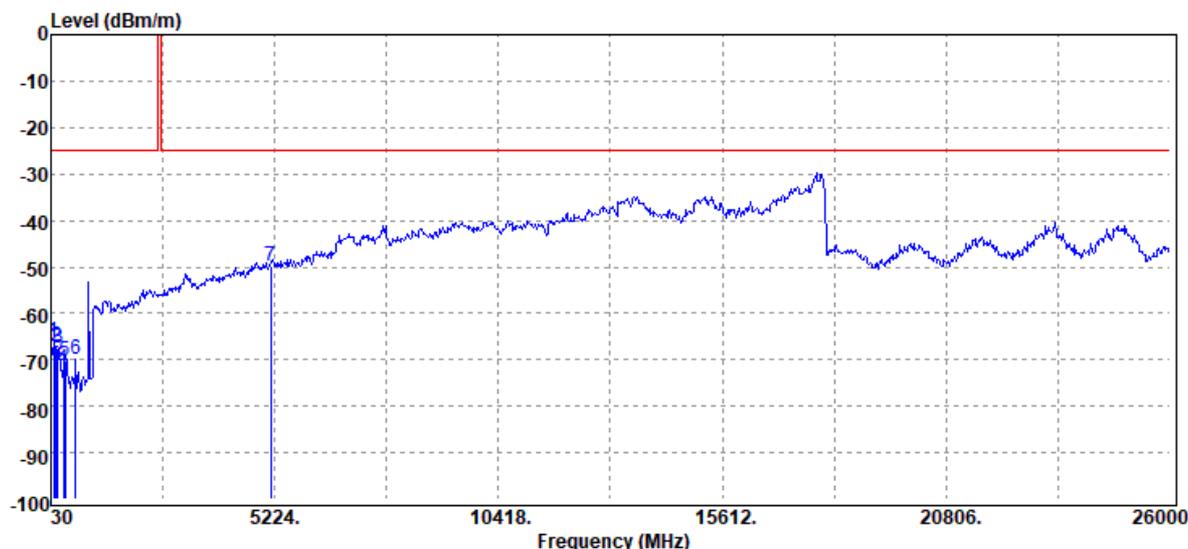


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.13	-52.49	-5.69	-0.95	-25.00	-34.13
197.81	-68.33	-64.61	-2.34	-1.38	-25.00	-43.33
299.66	-71.53	-68.14	-1.70	-1.69	-25.00	-46.53
350.10	-70.08	-66.72	-1.46	-1.90	-25.00	-45.08
516.94	-71.66	-67.63	-1.45	-2.58	-25.00	-46.66
594.54	-65.41	-61.56	-1.75	-2.10	-25.00	-40.41
5130.00	-44.61	-49.66	12.10	-7.05	-25.00	-19.61

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B7/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2565 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.01	-59.37	-5.69	-0.95	-25.00	-41.01
159.01	-67.19	-58.82	-7.01	-1.36	-25.00	-42.19
197.81	-67.62	-63.90	-2.34	-1.38	-25.00	-42.62
319.06	-71.94	-68.49	-1.71	-1.74	-25.00	-46.94
367.56	-70.16	-66.67	-1.58	-1.91	-25.00	-45.16
594.54	-69.81	-65.96	-1.75	-2.10	-25.00	-44.81
5130.00	-49.70	-54.75	12.10	-7.05	-25.00	-24.70

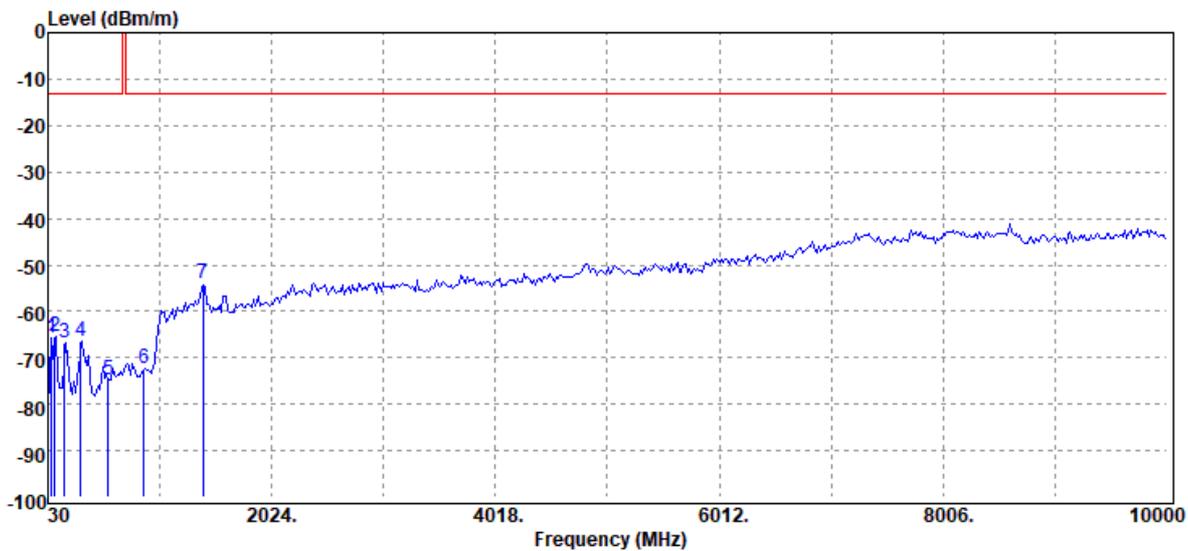
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Report Number :ER/2019/C0117
 Operation Mode :LTE B12/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :707.5 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



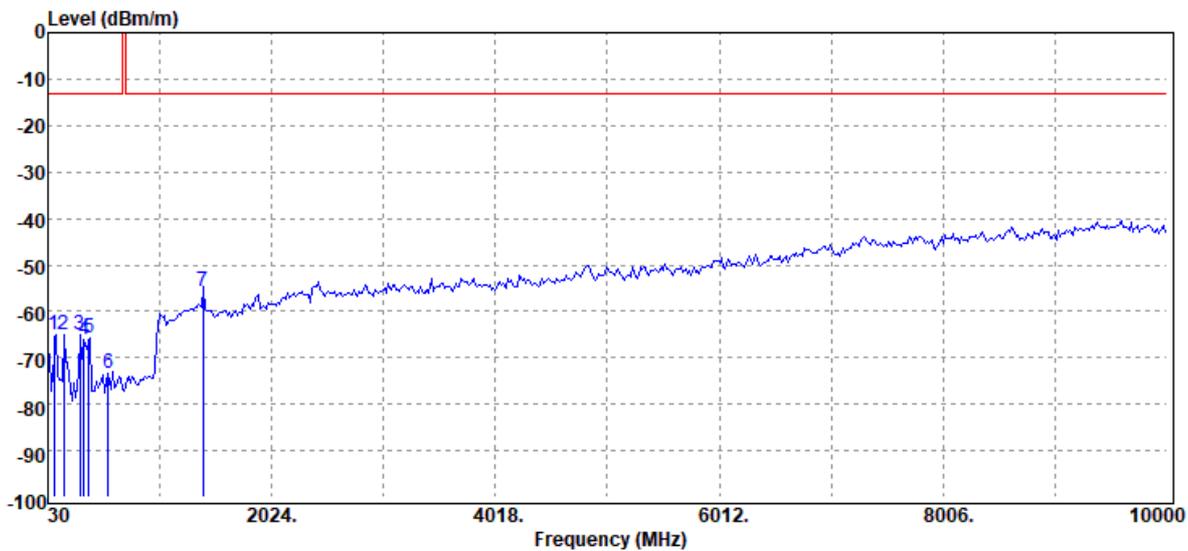
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-65.79	-49.56	-15.50	-0.73	-13.00	-52.79
90.14	-65.53	-58.69	-5.93	-0.91	-13.00	-52.53
180.35	-66.80	-61.40	-4.15	-1.25	-13.00	-53.80
324.88	-66.42	-62.98	-1.60	-1.84	-13.00	-53.42
565.44	-74.68	-71.02	-1.40	-2.26	-13.00	-61.68
884.57	-72.48	-68.20	-1.70	-2.58	-13.00	-59.48
1415.00	-54.14	-58.37	7.93	-3.70	-13.00	-41.14

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Report Number	:ER/2019/C0117	Test Date	:2020-01-08
Operation Mode	:LTE B12/802.11aB4	Temp./Humi.	:21.8/61
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:707.5 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-64.91	-57.51	-6.50	-0.90	-13.00	-51.91
167.74	-64.97	-57.49	-6.17	-1.31	-13.00	-51.97
312.27	-65.12	-61.83	-1.65	-1.64	-13.00	-52.12
348.16	-66.09	-62.70	-1.50	-1.89	-13.00	-53.09
395.69	-65.61	-62.05	-1.61	-1.95	-13.00	-52.61
565.44	-73.38	-69.72	-1.40	-2.26	-13.00	-60.38
1415.00	-55.67	-59.90	7.93	-3.70	-13.00	-42.67

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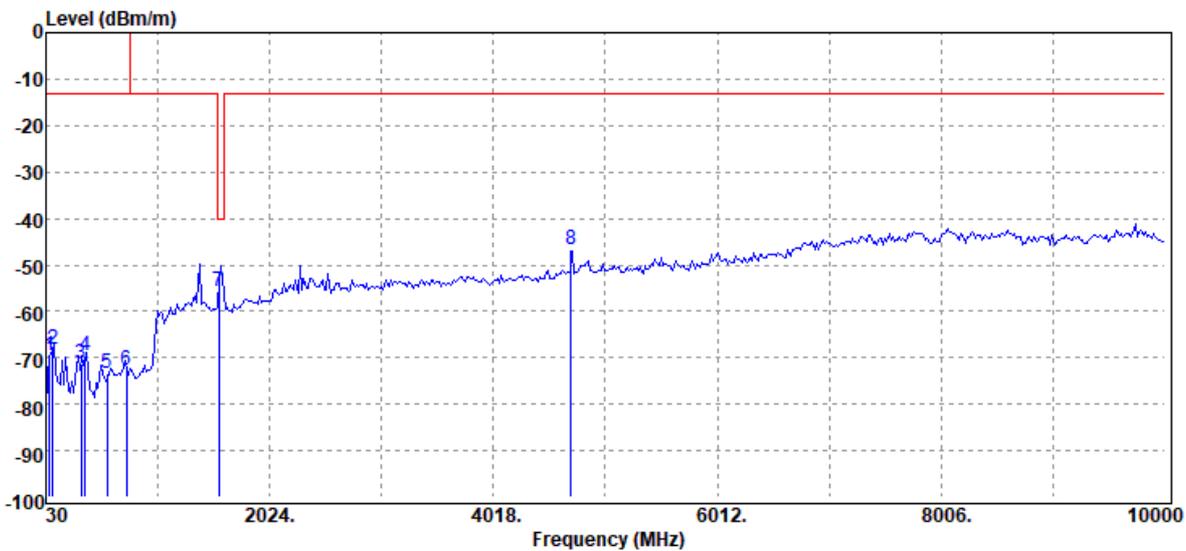
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Report Number :ER/2019/C0117
 Operation Mode :LTE B13/802.11aB4
 Test Mode :Tx CH High/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :784.5 MHz/5785 MHz

Test Date :2020-01-08
 Temp./Humi. :21.8/61
 Antenna Pol. :VERTICAL
 Engineer :Thomas



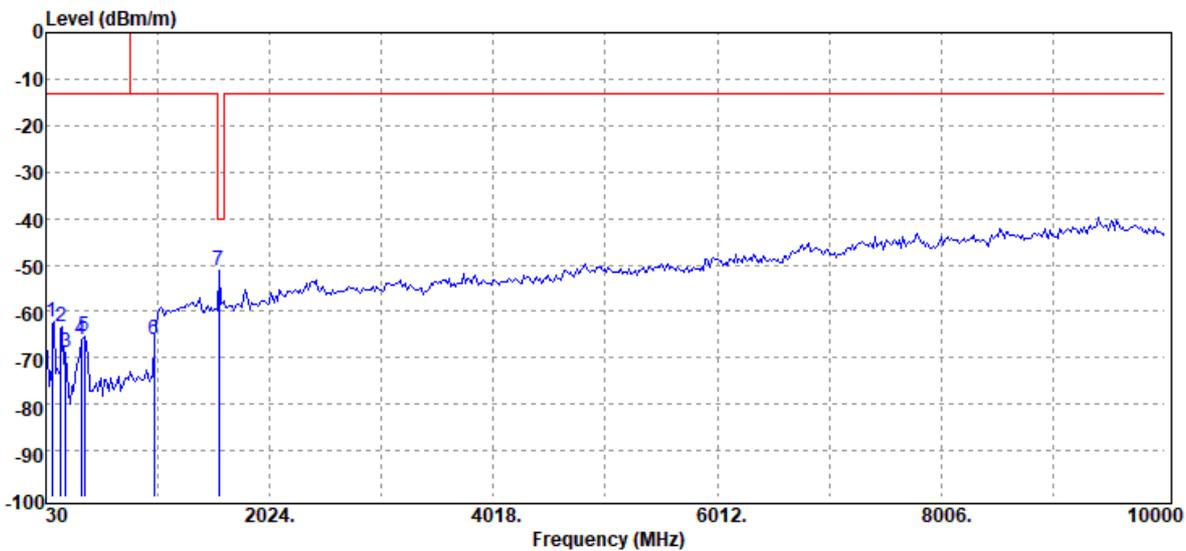
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	-69.58	-53.59	-15.26	-0.73	-13.00	-56.58
93.05	-68.15	-61.55	-5.67	-0.93	-13.00	-55.15
347.19	-71.29	-67.87	-1.53	-1.89	-13.00	-58.29
379.20	-69.69	-66.13	-1.64	-1.92	-13.00	-56.69
577.08	-73.52	-69.92	-1.56	-2.04	-13.00	-60.52
745.86	-72.68	-68.47	-1.81	-2.40	-13.00	-59.68
1569.00	-55.84	-61.08	9.14	-3.90	-40.00	-15.84
4707.00	-46.57	-51.82	12.03	-6.78	-13.00	-33.57

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Report Number	:ER/2019/C0117	Test Date	:2020-01-08
Operation Mode	:LTE B13/802.11aB4	Temp./Humi.	:21.8/61
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:784.5 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-62.20	-54.80	-6.50	-0.90	-13.00	-49.20
166.77	-63.34	-55.70	-6.32	-1.32	-13.00	-50.34
209.45	-68.77	-65.73	-1.63	-1.41	-13.00	-55.77
343.31	-66.17	-62.69	-1.59	-1.89	-13.00	-53.17
371.44	-65.25	-61.74	-1.60	-1.91	-13.00	-52.25
990.30	-66.07	-61.16	-1.63	-3.28	-13.00	-53.07
1569.00	-51.28	-56.52	9.14	-3.90	-40.00	-11.28

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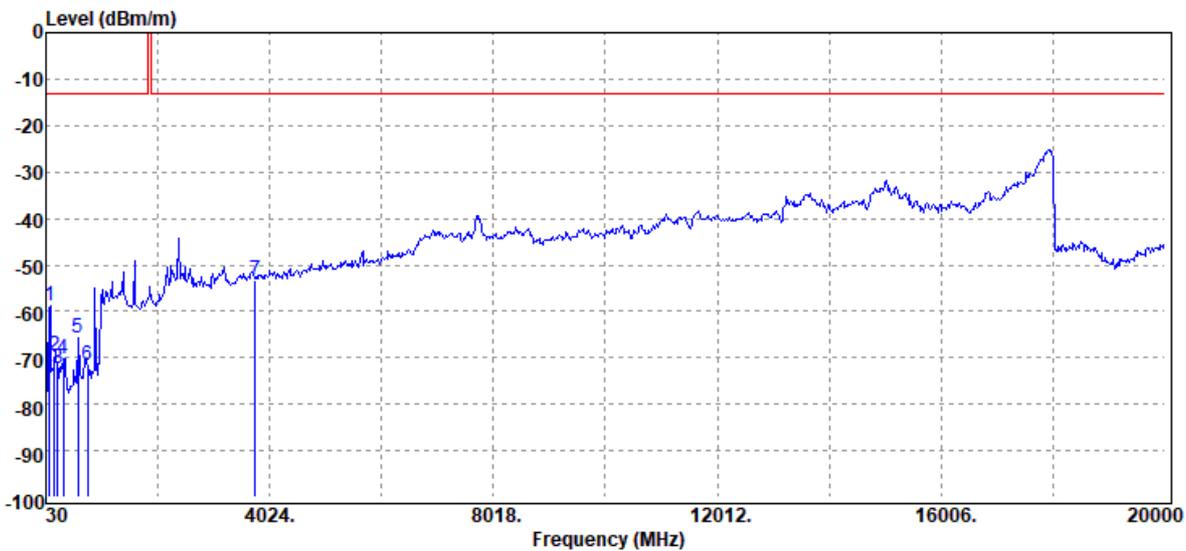
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Report Number :ER/2019/C0117
 Operation Mode :LTE B25/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :1882.5 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



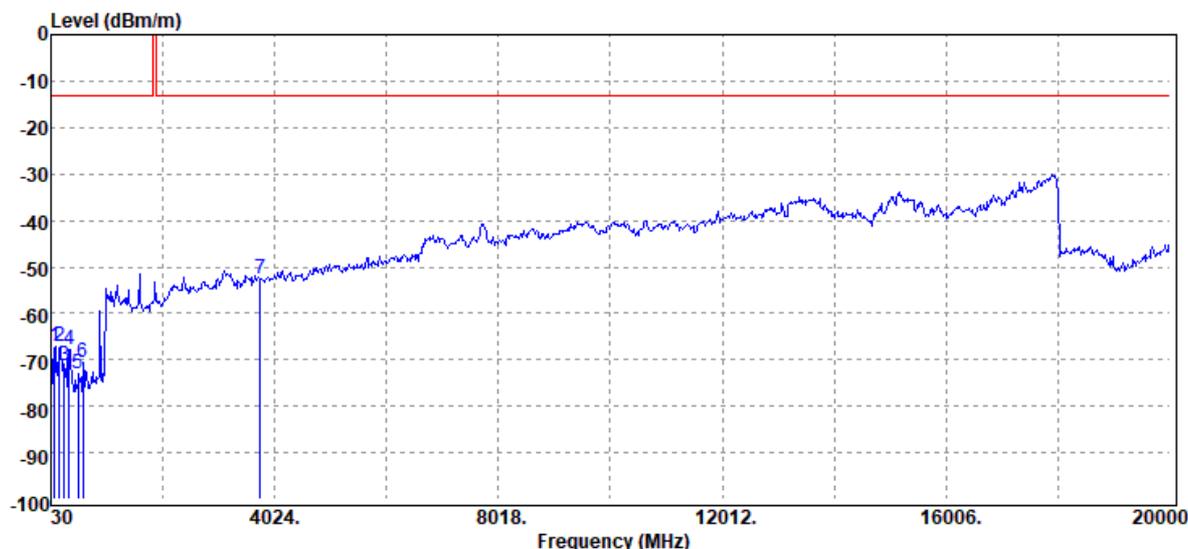
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.80	-52.16	-5.69	-0.95	-13.00	-45.80
180.35	-69.48	-64.08	-4.15	-1.25	-13.00	-56.48
240.49	-72.43	-69.27	-1.73	-1.43	-13.00	-59.43
343.31	-70.11	-66.63	-1.59	-1.89	-13.00	-57.11
594.54	-65.67	-61.82	-1.75	-2.10	-13.00	-52.67
774.96	-71.59	-67.21	-1.75	-2.63	-13.00	-58.59
3765.00	-53.33	-59.61	12.30	-6.02	-13.00	-40.33

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B25/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:1882.5 MHz/5785 MHz		



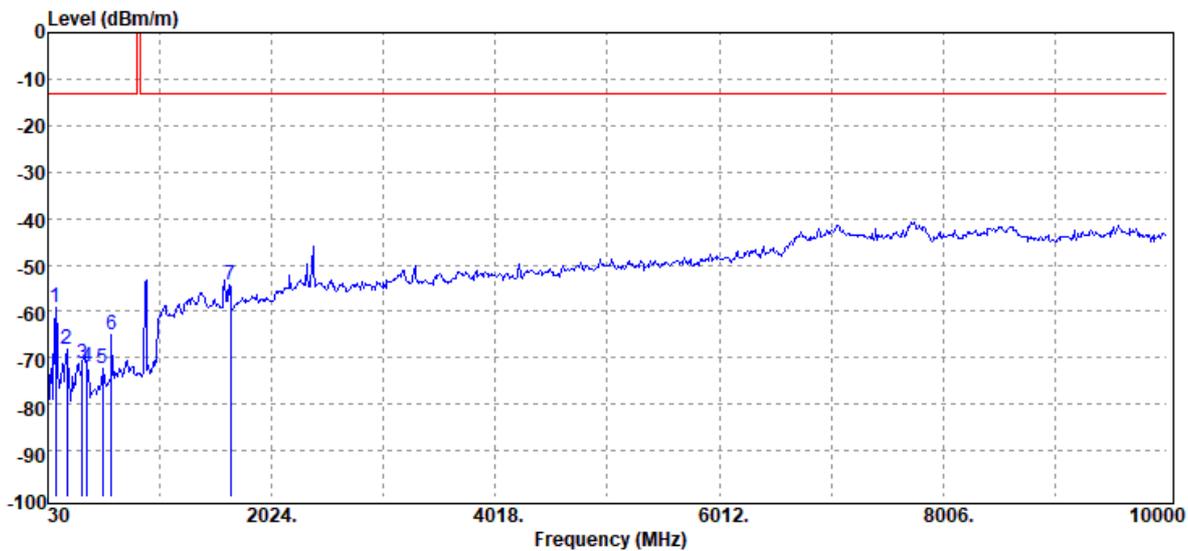
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.21	-60.57	-5.69	-0.95	-13.00	-54.21
180.35	-67.05	-61.65	-4.15	-1.25	-13.00	-54.05
264.74	-71.44	-68.05	-1.77	-1.62	-13.00	-58.44
350.10	-67.67	-64.31	-1.46	-1.90	-13.00	-54.67
516.94	-73.00	-68.97	-1.45	-2.58	-13.00	-60.00
594.54	-70.47	-66.62	-1.75	-2.10	-13.00	-57.47
3765.00	-52.57	-58.85	12.30	-6.02	-13.00	-39.57

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:829 MHz/5785 MHz		



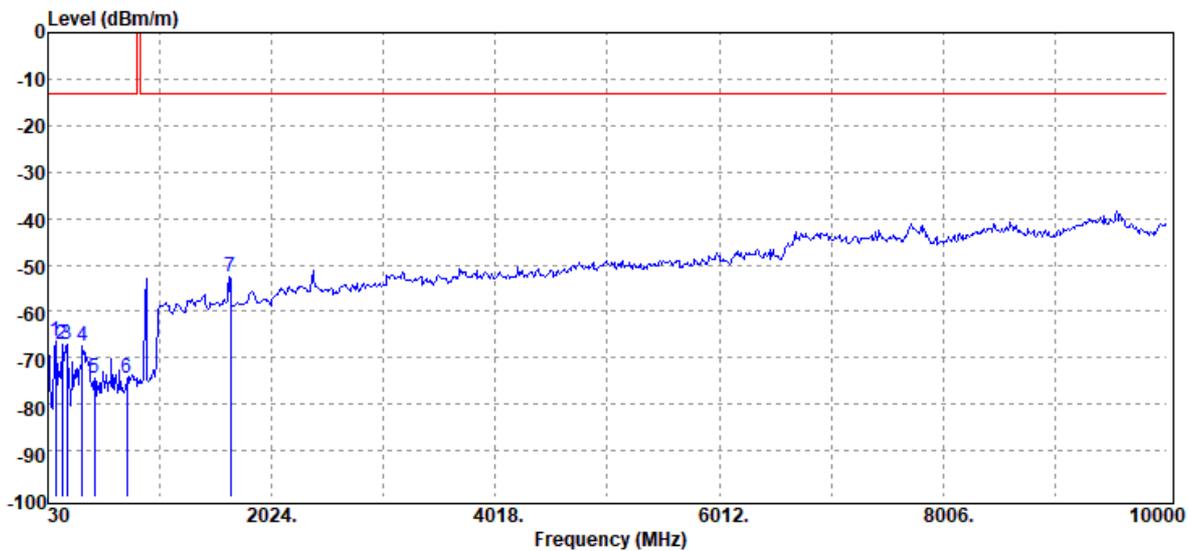
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.23	-52.59	-5.69	-0.95	-13.00	-46.23
197.81	-68.17	-64.45	-2.34	-1.38	-13.00	-55.17
337.49	-71.14	-67.62	-1.63	-1.89	-13.00	-58.14
379.20	-72.10	-68.54	-1.64	-1.92	-13.00	-59.10
516.94	-72.18	-68.15	-1.45	-2.58	-13.00	-59.18
594.54	-65.06	-61.21	-1.75	-2.10	-13.00	-52.06
1658.00	-54.18	-59.52	9.36	-4.02	-13.00	-41.18

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Low/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:829 MHz/5785 MHz		



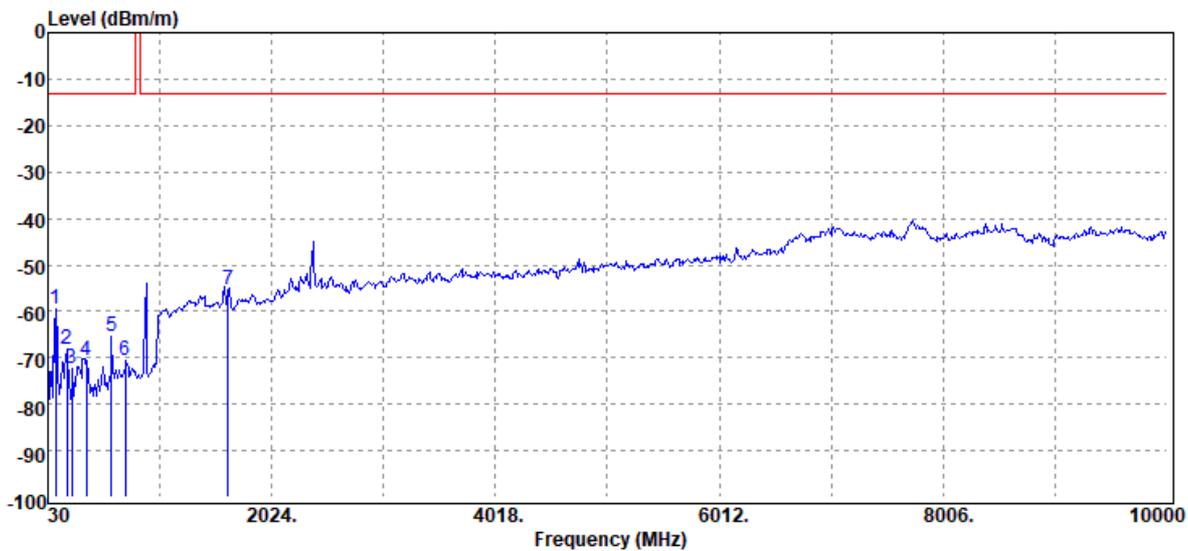
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-66.40	-59.76	-5.69	-0.95	-13.00	-53.40
156.10	-67.25	-58.68	-7.26	-1.31	-13.00	-54.25
197.81	-67.00	-63.28	-2.34	-1.38	-13.00	-54.00
337.49	-67.38	-63.86	-1.63	-1.89	-13.00	-54.38
445.16	-74.52	-70.93	-1.67	-1.92	-13.00	-61.52
733.25	-74.51	-70.80	-1.50	-2.21	-13.00	-61.51
1658.00	-52.43	-57.77	9.36	-4.02	-13.00	-39.43

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:819 MHz/5785 MHz		



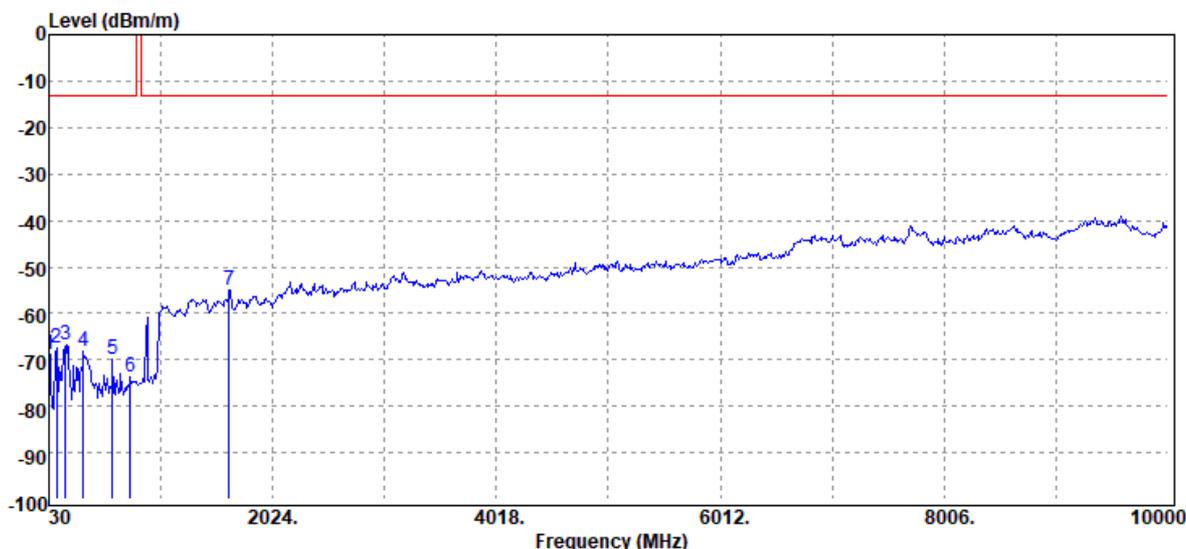
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.39	-52.75	-5.69	-0.95	-13.00	-46.39
197.81	-68.19	-64.47	-2.34	-1.38	-13.00	-55.19
240.49	-72.18	-69.02	-1.73	-1.43	-13.00	-59.18
372.41	-70.56	-67.03	-1.62	-1.91	-13.00	-57.56
594.54	-65.39	-61.54	-1.75	-2.10	-13.00	-52.39
721.61	-70.62	-66.86	-1.37	-2.39	-13.00	-57.62
1638.00	-55.43	-60.71	9.28	-4.00	-13.00	-42.43

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B26/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:819 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-68.84	-47.78	-20.49	-0.57	-13.00	-55.84
95.96	-67.62	-60.98	-5.69	-0.95	-13.00	-54.62
180.35	-66.76	-61.36	-4.15	-1.25	-13.00	-53.76
337.49	-68.14	-64.62	-1.63	-1.89	-13.00	-55.14
594.54	-69.93	-66.08	-1.75	-2.10	-13.00	-56.93
757.50	-73.81	-69.41	-1.80	-2.60	-13.00	-60.81
1638.00	-55.13	-60.41	9.28	-4.00	-13.00	-42.13

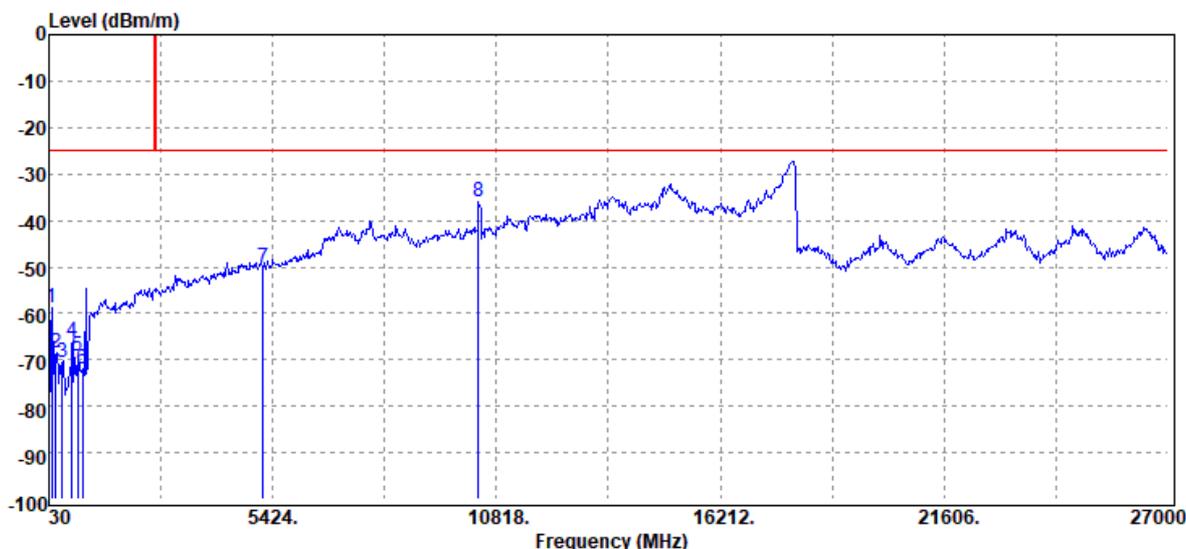
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Report Number :ER/2019/C0117
 Operation Mode :LTE B38/802.11aB4
 Test Mode :Tx CH Mid/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :2595 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



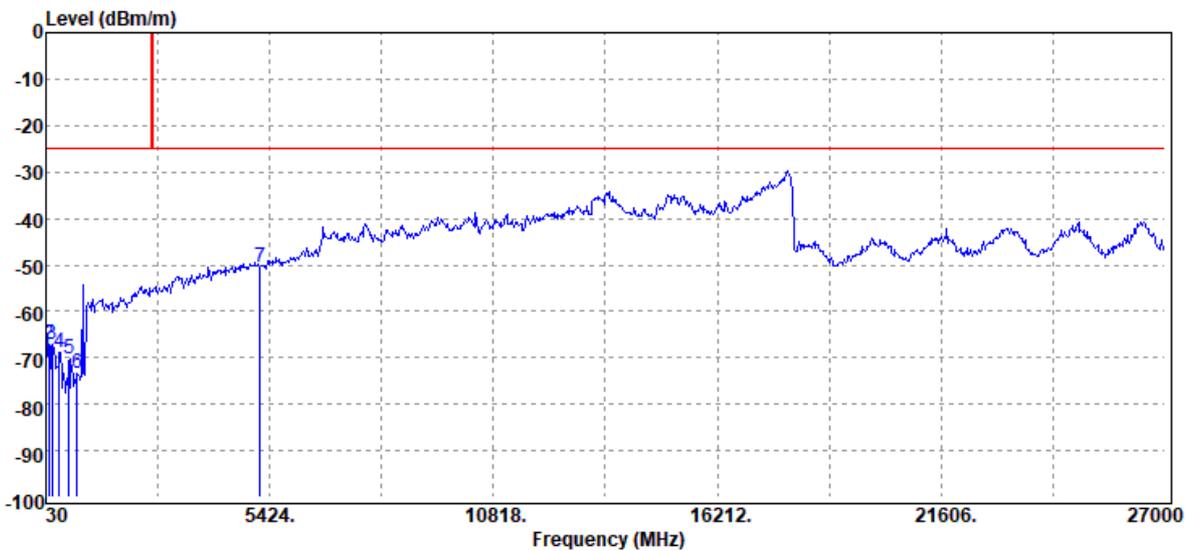
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-58.77	-52.13	-5.69	-0.95	-25.00	-33.77
197.81	-68.38	-64.66	-2.34	-1.38	-25.00	-43.38
343.31	-70.51	-67.03	-1.59	-1.89	-25.00	-45.51
594.54	-66.20	-62.35	-1.75	-2.10	-25.00	-41.20
721.61	-69.36	-65.60	-1.37	-2.39	-25.00	-44.36
841.89	-72.09	-67.30	-1.73	-3.06	-25.00	-47.09
5190.00	-50.06	-55.15	12.26	-7.17	-25.00	-25.06
10380.00	-36.07	-37.17	11.04	-9.94	-25.00	-11.07

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B38/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH Mid/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2595 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-69.24	-47.52	-21.20	-0.52	-25.00	-44.24
95.96	-67.06	-60.42	-5.69	-0.95	-25.00	-42.06
180.35	-67.11	-61.71	-4.15	-1.25	-25.00	-42.11
350.10	-68.69	-65.33	-1.46	-1.90	-25.00	-43.69
594.54	-70.35	-66.50	-1.75	-2.10	-25.00	-45.35
778.84	-73.53	-69.16	-1.71	-2.66	-25.00	-48.53
5190.00	-50.54	-55.63	12.26	-7.17	-25.00	-25.54

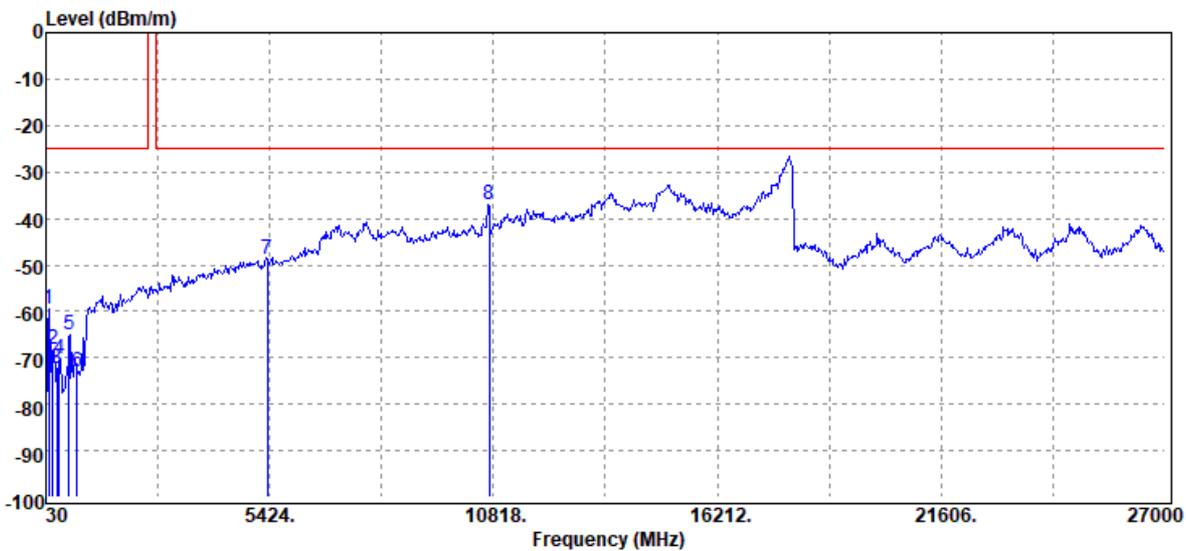
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Report Number :ER/2019/C0117
 Operation Mode :LTE B41/802.11aB4
 Test Mode :Tx CH High/Tx CH Mid
 EUT Pol :E2 Plane
 Test Channel :2680 MHz/5785 MHz

Test Date :2020-01-30
 Temp./Humi. :18.1/57
 Antenna Pol. :VERTICAL
 Engineer :Thomas



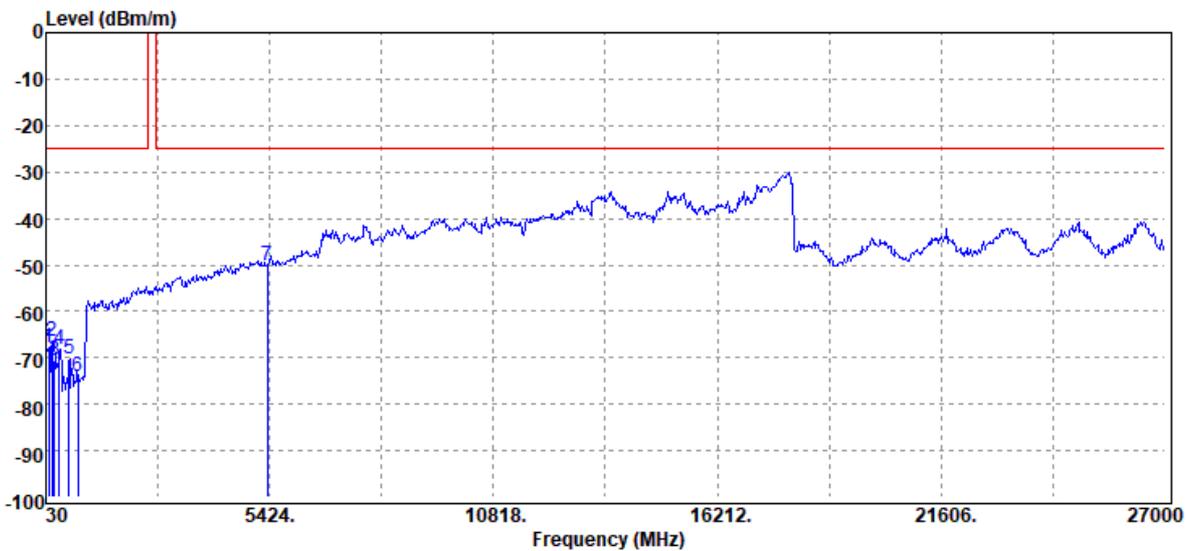
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-59.61	-52.97	-5.69	-0.95	-25.00	-34.61
197.81	-68.23	-64.51	-2.34	-1.38	-25.00	-43.23
299.66	-72.33	-68.94	-1.70	-1.69	-25.00	-47.33
350.10	-70.07	-66.71	-1.46	-1.90	-25.00	-45.07
594.54	-65.03	-61.18	-1.75	-2.10	-25.00	-40.03
774.96	-72.88	-68.50	-1.75	-2.63	-25.00	-47.88
5360.00	-48.81	-54.41	12.90	-7.30	-25.00	-23.81
10720.00	-36.89	-37.67	11.16	-10.38	-25.00	-11.89

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Report Number	:ER/2019/C0117	Test Date	:2020-01-30
Operation Mode	:LTE B41/802.11aB4	Temp./Humi.	:18.1/57
Test Mode	:Tx CH High/Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:E2 Plane	Engineer	:Thomas
Test Channel	:2680 MHz/5785 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-67.83	-61.19	-5.69	-0.95	-25.00	-42.83
180.35	-66.60	-61.20	-4.15	-1.25	-25.00	-41.60
240.49	-70.59	-67.43	-1.73	-1.43	-25.00	-45.59
350.10	-68.01	-64.65	-1.46	-1.90	-25.00	-43.01
594.54	-70.09	-66.24	-1.75	-2.10	-25.00	-45.09
796.30	-74.05	-69.34	-1.62	-3.09	-25.00	-49.05
5360.00	-50.24	-55.84	12.90	-7.30	-25.00	-25.24

~ End of Report ~

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