

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

CLASS II PERMISSIVE CHANGE TEST REPORT

Applicant: Castles Technology Co., Ltd
6F, No. 207-5, Sec.3, Beixin Rd., Xindian District, New Taipei City 231, Taiwan

Product Name: LTE Module

Brand Name: CASTLES TECHNOLOGY

Model No.: SC20-A

Model Difference: N/A

Report Number: E2/2020/40008

FCC ID: WIYQSC20A

FCC Rule Part: §15.407, Cat: NII

Issue Date: Aug. 25, 2020

Date of Test: Apr. 28, 2020 ~ Apr. 29, 2020

Date of EUT Received: Apr. 07, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 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:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/40008	Rev.00	Original.	Aug. 25, 2020	Revised By: Violetta Tang

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	LTE Module	
Brand Name:	CASTLES TECHNOLOGY	
Model No.:	SC20-A	
Model Difference:	N/A	
Hardware Version:	R1.0	
Software Version:	SC20ASAR04A03H8G	
Host Product Name:	SATURN1000-E	
Host Model No.:	SATURN1000-E	
Class II Permissive Change:	LTE Module installed in SATURN1000-E	
Power Supply:	3.75Vdc from Rechargeable Li-ion Battery Pack or 5V from USB Port	
	Battery:	Model No.: S1E, Supplier: ShenZhen Kayo Battery Co., Ltd

Wi-Fi 802.11	Frequency Range	Channels	Modulation Technology
a	5150~5250	4	OFDM
	5725~5850	5	
n_HT20M	5150~5250	4	OFDM
	5725~5850	5	
n_HT40M	5150~5250	2	OFDM
	5725~5850	2	
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM	
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps	

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1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ARISTOTLE	RFA-25-AP795-70B-50	5150~5250	3.66
			5725~5850	3.66

1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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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

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference 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 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.

2.4 Measurement Results Explanation Example

2.4.1 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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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L440	P0000367	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 802.11a/n operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M	
CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

Operated band in 5745 MHz ~5850 MHz:

20 M		40 M	
CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785		
161	5805		
165	5825		

4.2 The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting mode is programmed.
- Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> 1TX	<input type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> SISO	<input type="checkbox"/> MIMO

- Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.2.1 RADIATED EMISSION TEST:

RADIATED EMISSION TEST(ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	Ch0
	5745~5825	149 to 165	157			

RADIATED BAND EDGE TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN-TENNA PORT
802.11a	5180~5240	36 to 48	36,48	OFDM	6	Ch0
	5745~5825	149 to 165	149,165			
802.11n_HT20	5180~5240	36 to 48	36,48		MCS0	SISO
	5745~5825	149 to 165	149,165			
802.11n_HT40	5190~5230	38 to 46	38,46		MCS0	SISO
	5755~5795	151 to 159	151,159			

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported.

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5 MEASUREMENT UNCERTAINTY

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz - 417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz - 500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 UNDESIRABLE RADIATED EMISSION MEASUREMENT

6.1 Standard Applicable

6.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), $EIRP$ is the equivalent isotropically radiated power in Watts.

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6.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m)

6.2 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/10/2020	01/09/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020
Attenuator	Woken	WATT-218FS-10	RF25	11/20/2019	11/19/2020
Band Rejection Filter	Micro-Tronics	G015	RF100	11/20/2019	11/19/2020
Band Rejection Filter	Micro-Tronics	G016	RF101	11/20/2019	11/19/2020
Band Rejection Filter	Micro-Tronics	G021	RF102	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020

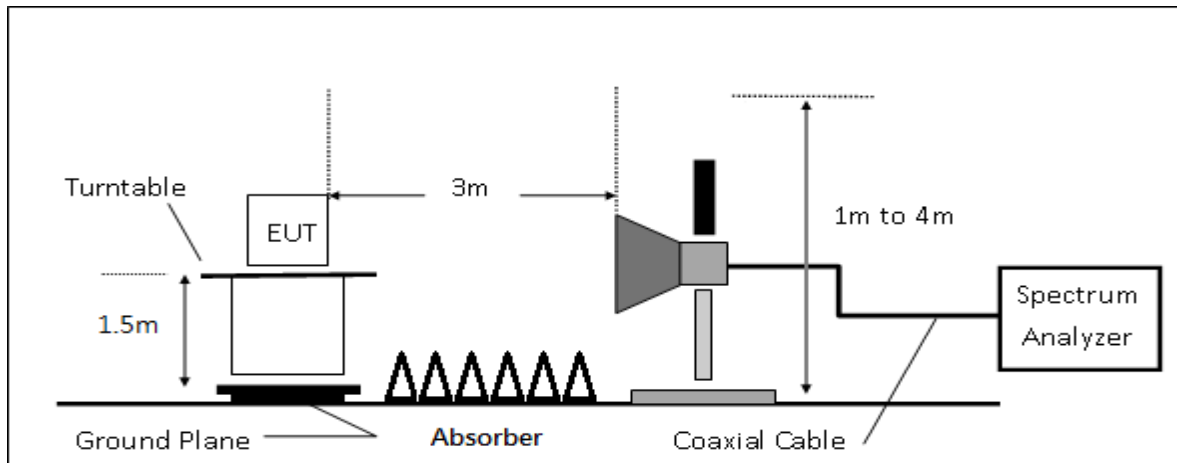
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6.3 Test SET-UP

(A) Radiated Emission Test Set-UP Frequency Over 1 GHz



6.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
8. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
9. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
10. Repeat above procedures until all frequency measured were complete.

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6.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

6.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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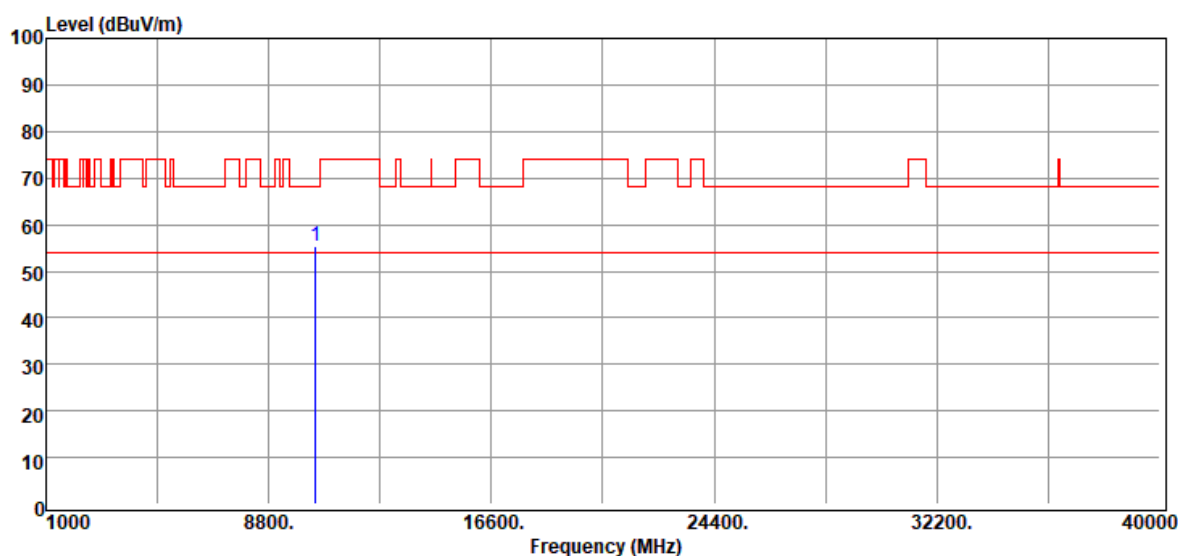
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6.7 Radiated Spurious Emission Measurement Result

6.7.1 Above 1GHz Worst-Case Data:

Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	29.10	26.24	55.34	68.20	-12.86

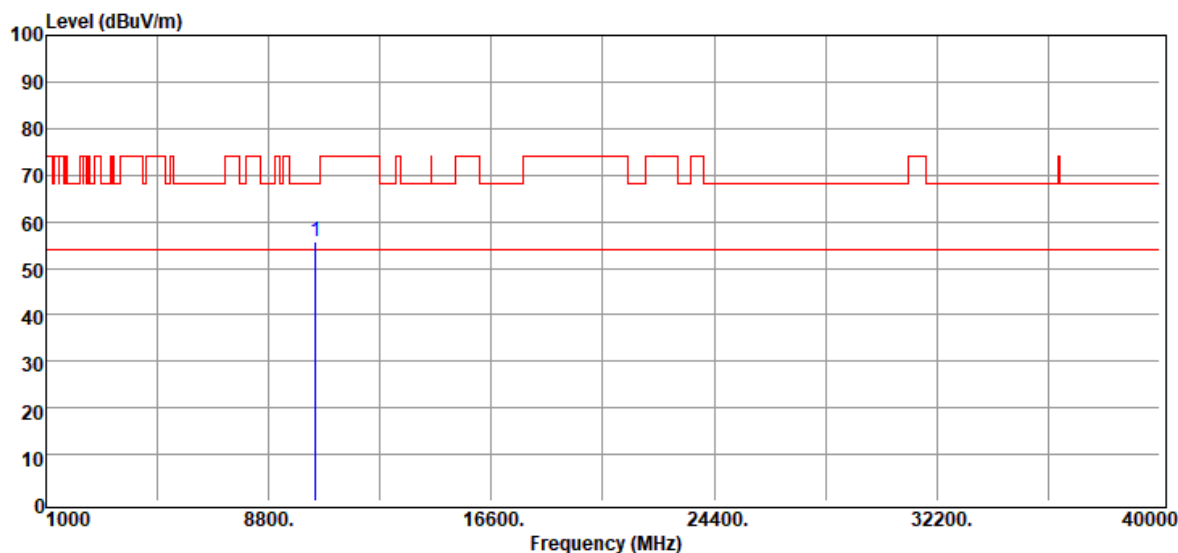
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	29.48	26.24	55.72	68.20	-12.48

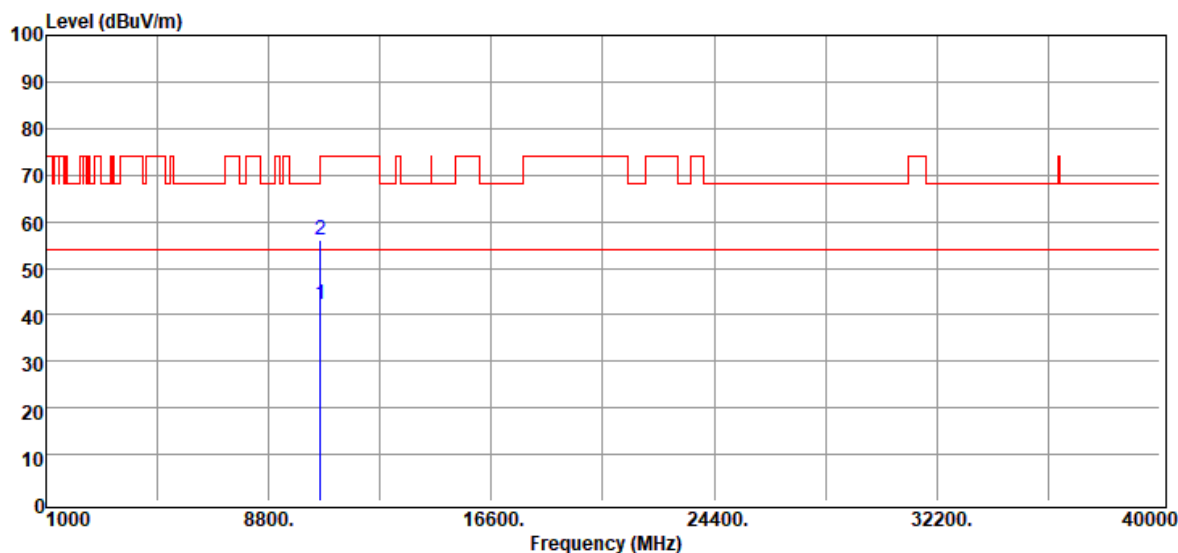
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	16.52	25.55	42.07	54.00	-11.93
10600.00	Peak	30.56	25.55	56.11	74.00	-17.89

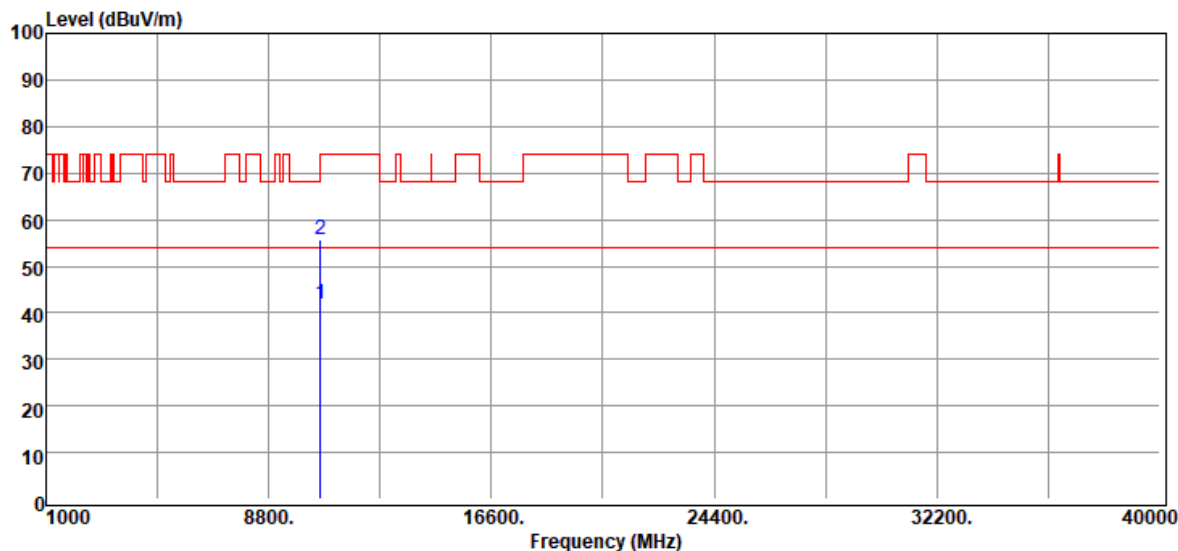
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 2
 Test Frequency :5300 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	16.41	25.55	41.96	54.00	-12.04
10600.00	Peak	30.21	25.55	55.76	74.00	-18.24

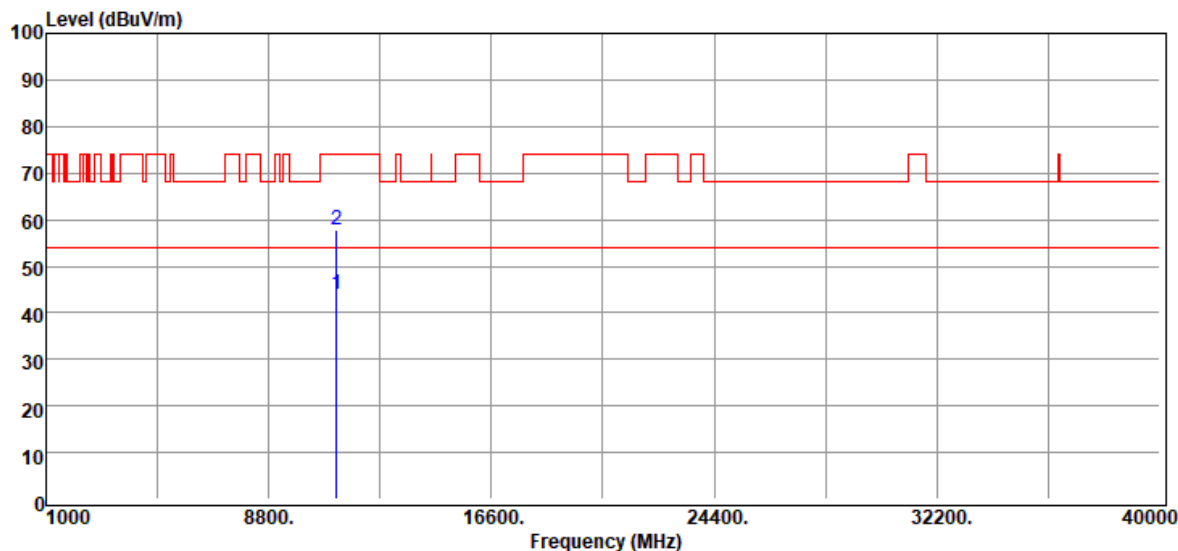
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	16.32	27.45	43.77	54.00	-10.23
11160.00	Peak	30.40	27.45	57.85	74.00	-16.15

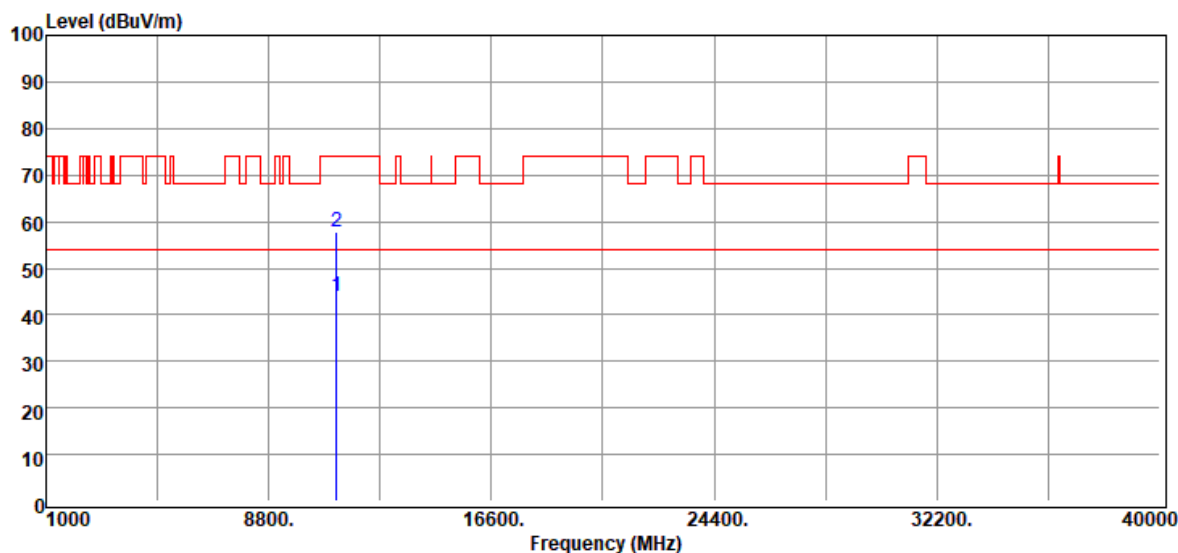
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	16.55	27.45	44.00	54.00	-10.00
11160.00	Peak	30.36	27.45	57.81	74.00	-16.19

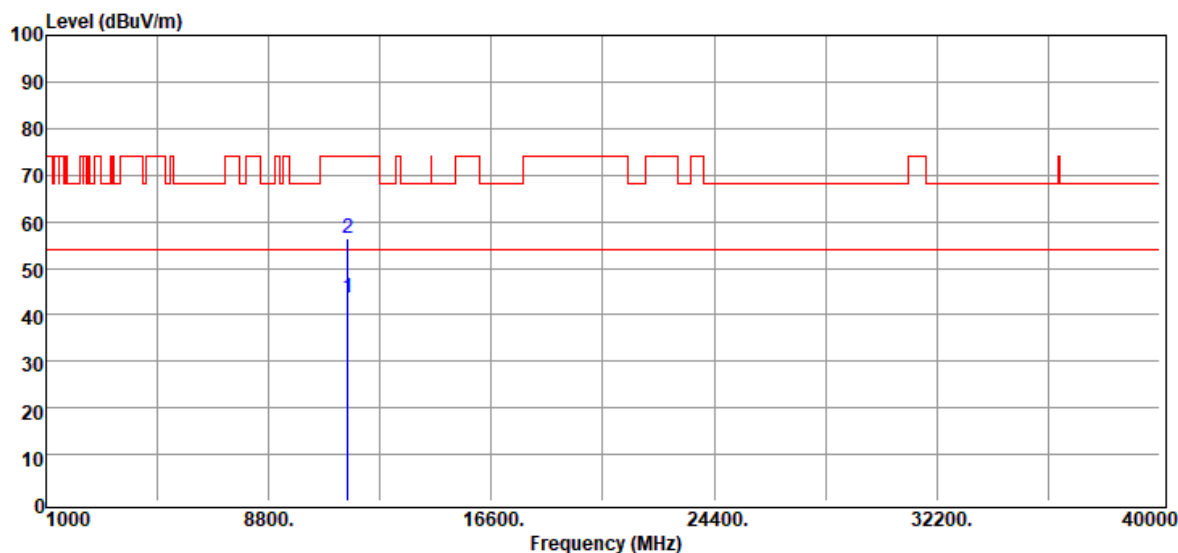
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	16.55	26.95	43.50	54.00	-10.50
11570.00	Peak	29.31	26.95	56.26	74.00	-17.74

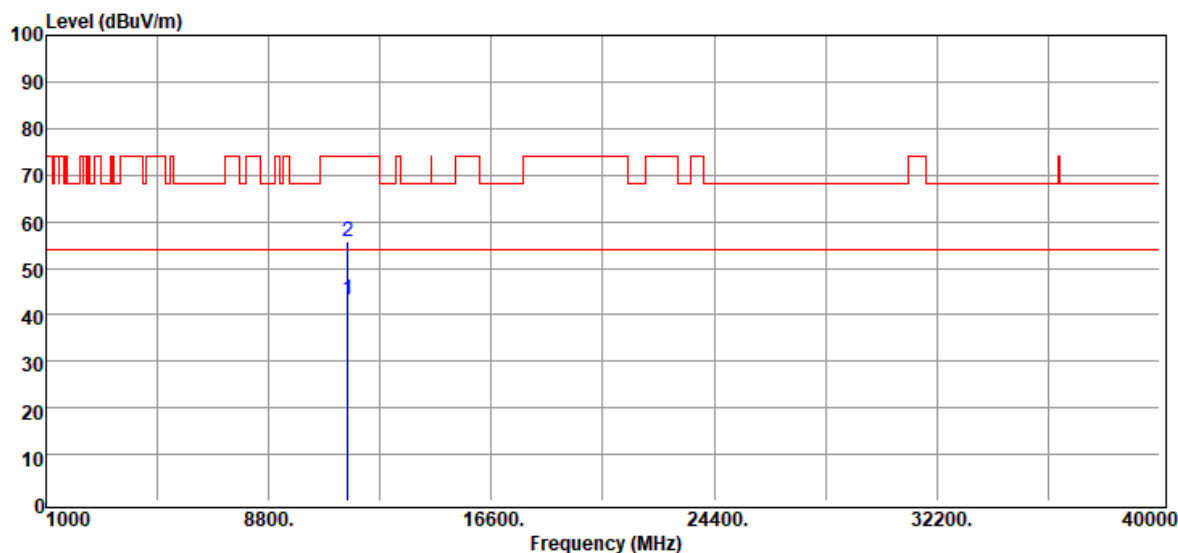
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	16.41	26.95	43.36	54.00	-10.64
11570.00	Peak	28.75	26.95	55.70	74.00	-18.30

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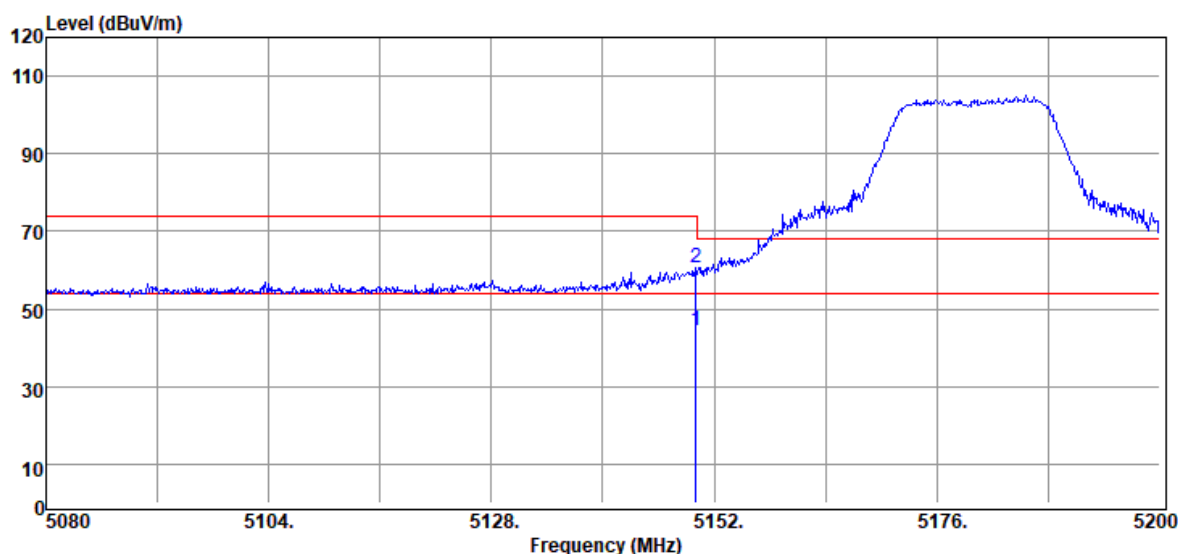
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6.7.2 Band edge falling to restricted band

Report Number :E2/2020/40008
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	29.45	15.12	44.57	54.00	-9.43
5150.00	Peak	45.44	15.12	60.56	74.00	-13.44

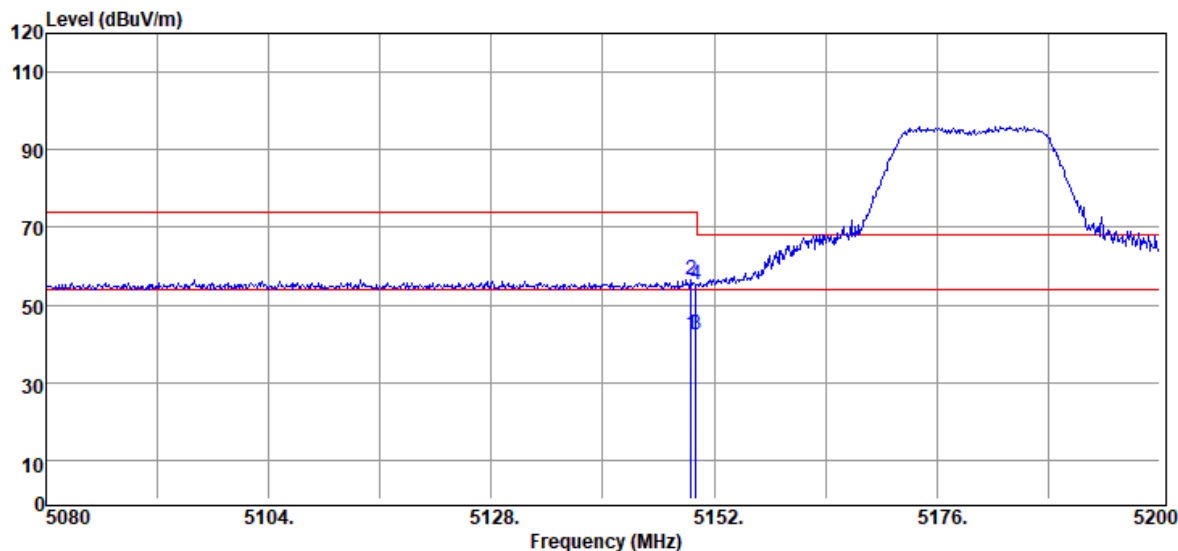
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.48	Average	27.44	15.11	42.55	54.00	-11.45
5149.48	Peak	41.54	15.11	56.65	74.00	-17.35
5150.00	Average	27.28	15.12	42.40	54.00	-11.60
5150.00	Peak	40.10	15.12	55.22	74.00	-18.78

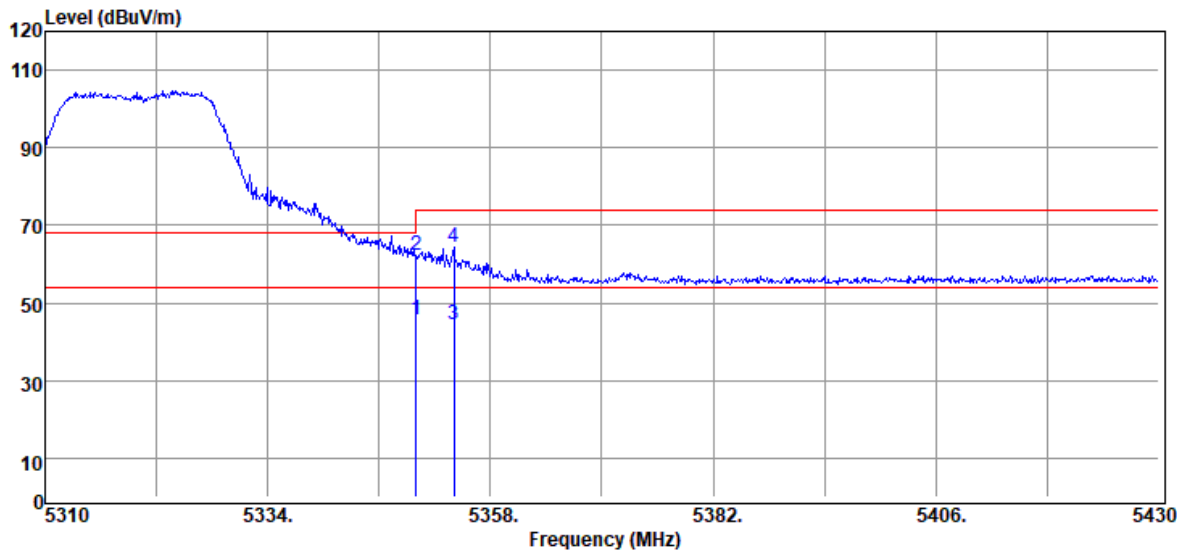
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	30.26	15.60	45.86	54.00	-8.14
5350.00	Peak	46.72	15.60	62.32	74.00	-11.68
5354.04	Average	28.59	15.63	44.22	54.00	-9.78
5354.04	Peak	48.54	15.63	64.17	74.00	-9.83

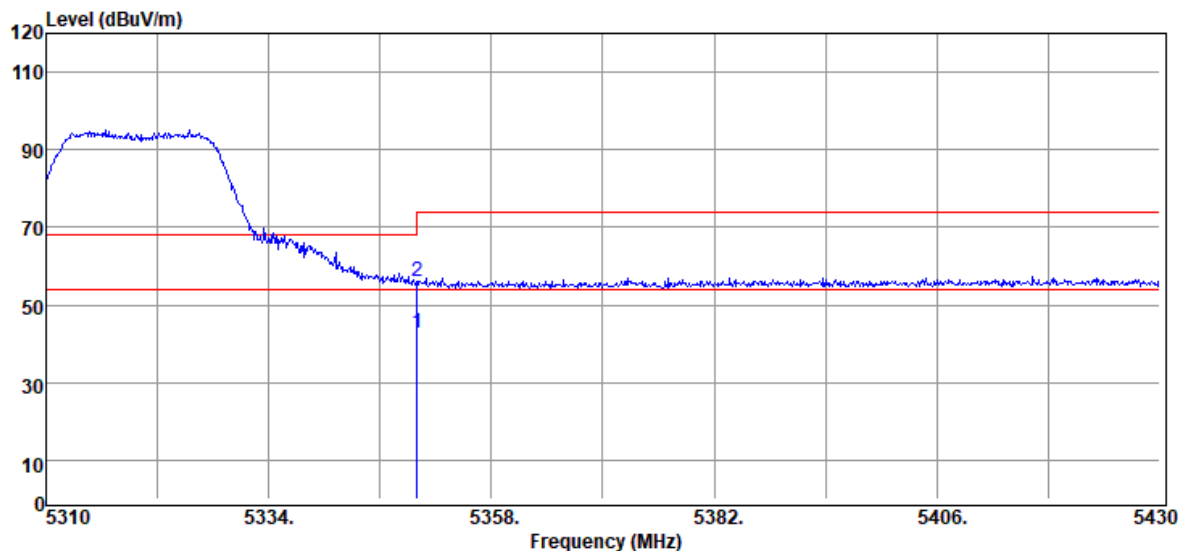
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	27.37	15.60	42.97	54.00	-11.03
5350.00	Peak	40.28	15.60	55.88	74.00	-18.12

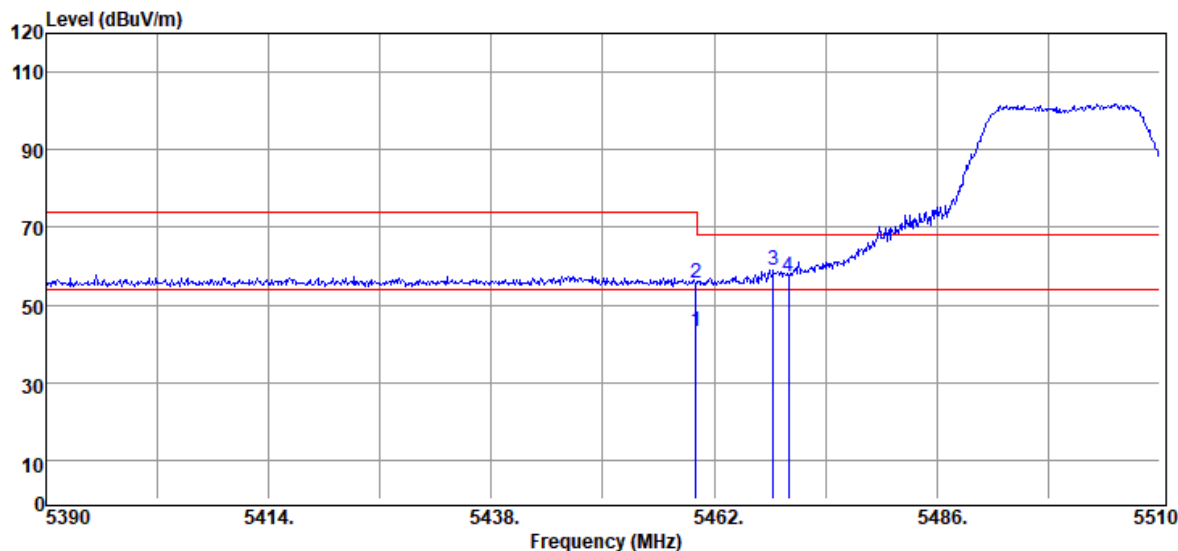
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	27.42	15.90	43.32	54.00	-10.68
5460.00	Peak	39.73	15.90	55.63	74.00	-18.37
5468.36	Peak	43.25	15.89	59.14	68.20	-9.06
5470.00	Peak	41.48	15.89	57.37	68.20	-10.83

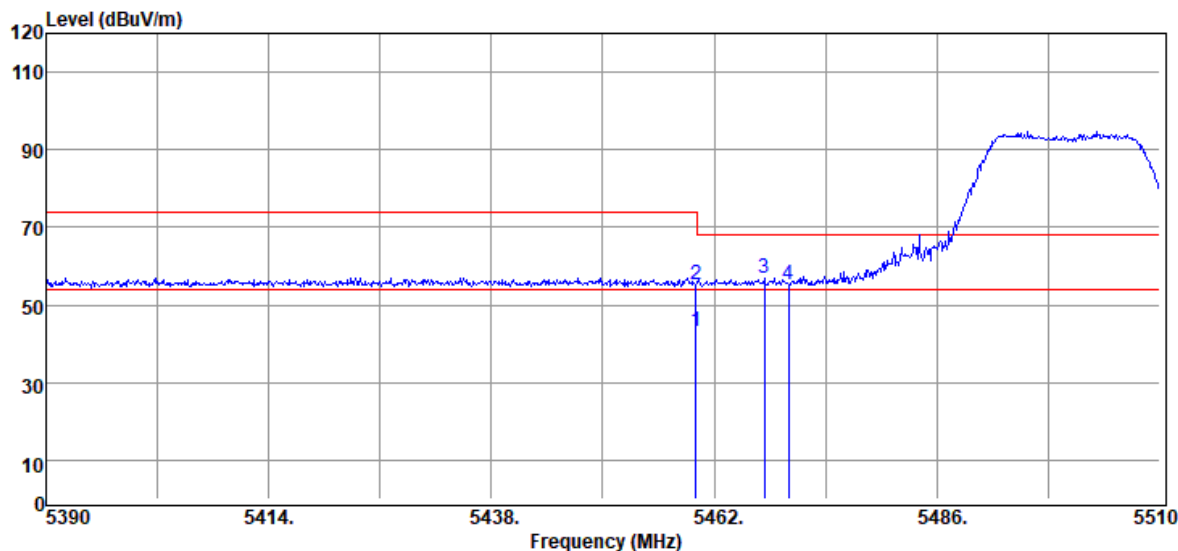
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	27.18	15.90	43.08	54.00	-10.92
5460.00	Peak	39.45	15.90	55.35	74.00	-18.65
5467.40	Peak	41.01	15.89	56.90	68.20	-11.30
5470.00	Peak	39.23	15.89	55.12	68.20	-13.08

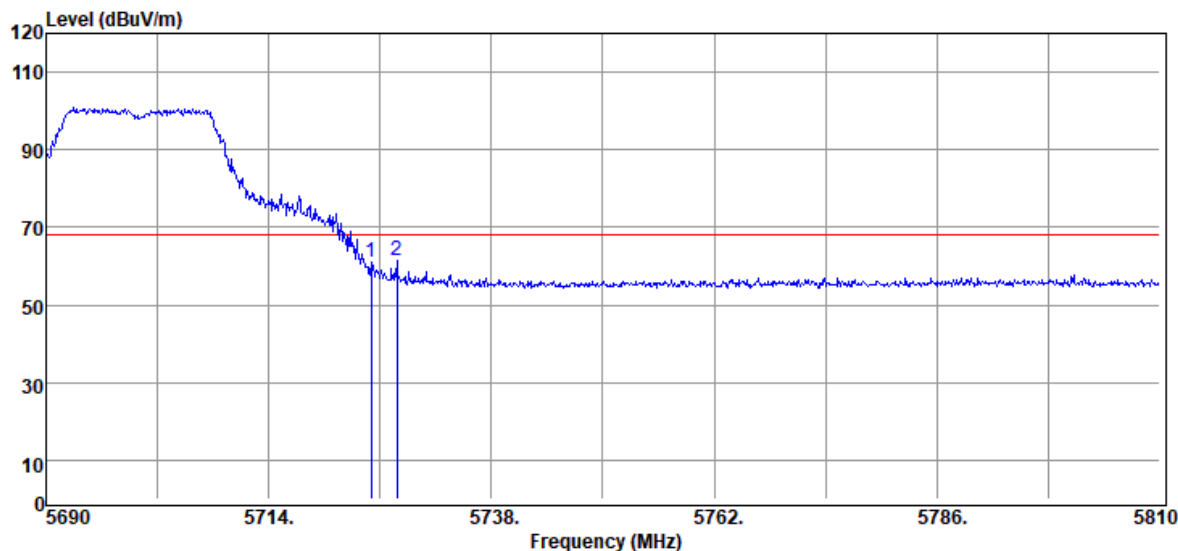
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	44.61	16.44	61.05	68.20	-7.15
5727.80	Peak	45.06	16.46	61.52	68.20	-6.68

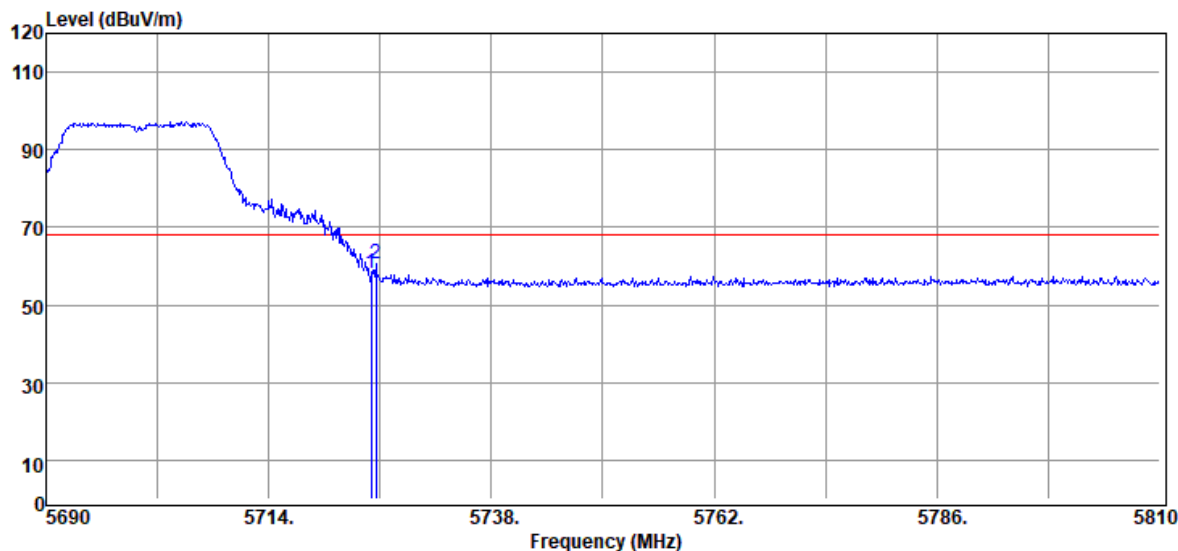
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	41.78	16.44	58.22	68.20	-9.98
5725.52	Peak	44.38	16.44	60.82	68.20	-7.38

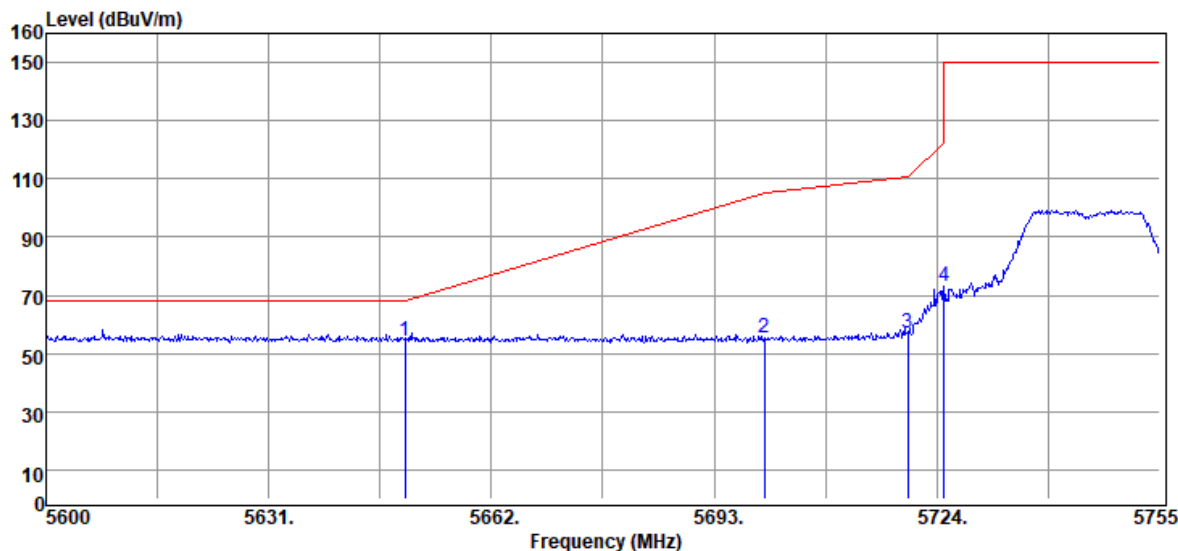
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.00	Peak	38.35	16.08	54.43	68.20	-13.77
5700.00	Peak	38.86	16.23	55.09	105.20	-50.11
5720.00	Peak	40.55	16.39	56.94	110.80	-53.86
5725.00	Peak	56.57	16.44	73.01	122.20	-49.19

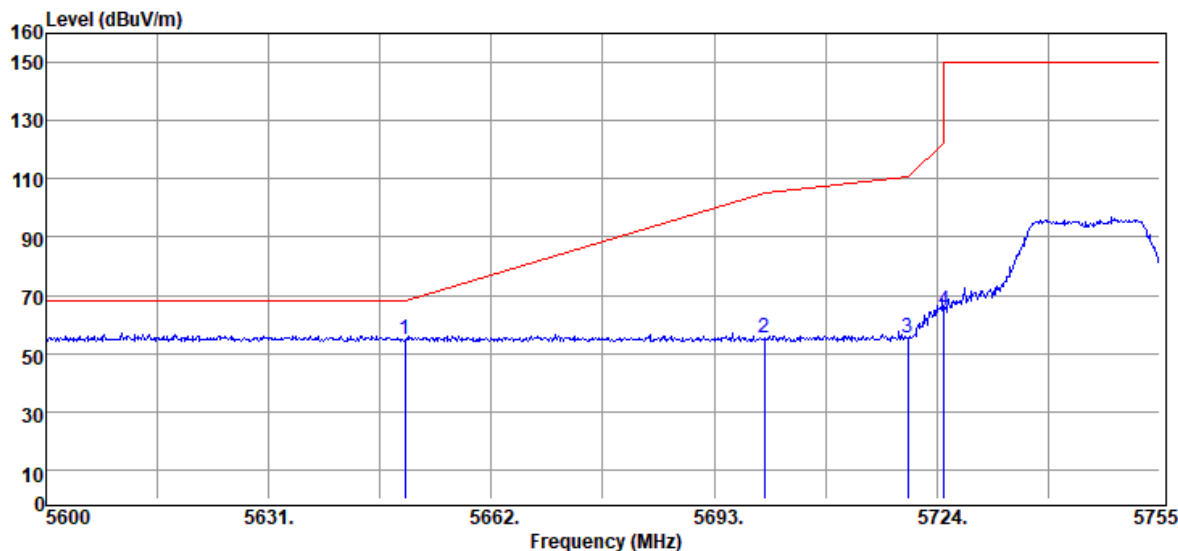
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	38.99	16.08	55.07	68.20	-13.13
5700.00	Peak	39.12	16.23	55.35	105.20	-49.85
5720.00	Peak	38.83	16.39	55.22	110.80	-55.58
5725.00	Peak	48.28	16.44	64.72	122.20	-57.48

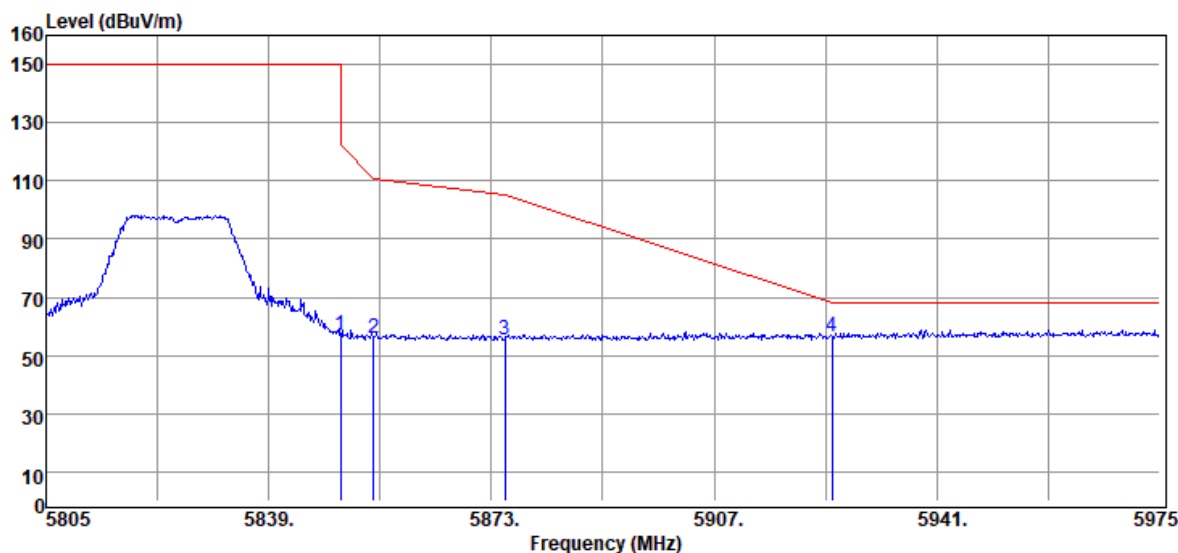
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Report Number :E2/2020/40008
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	40.32	16.85	57.17	122.20	-65.03
5855.00	Peak	38.90	16.84	55.74	110.80	-55.06
5875.00	Peak	38.37	16.77	55.14	105.20	-50.06
5925.00	Peak	39.27	16.94	56.21	68.20	-11.99

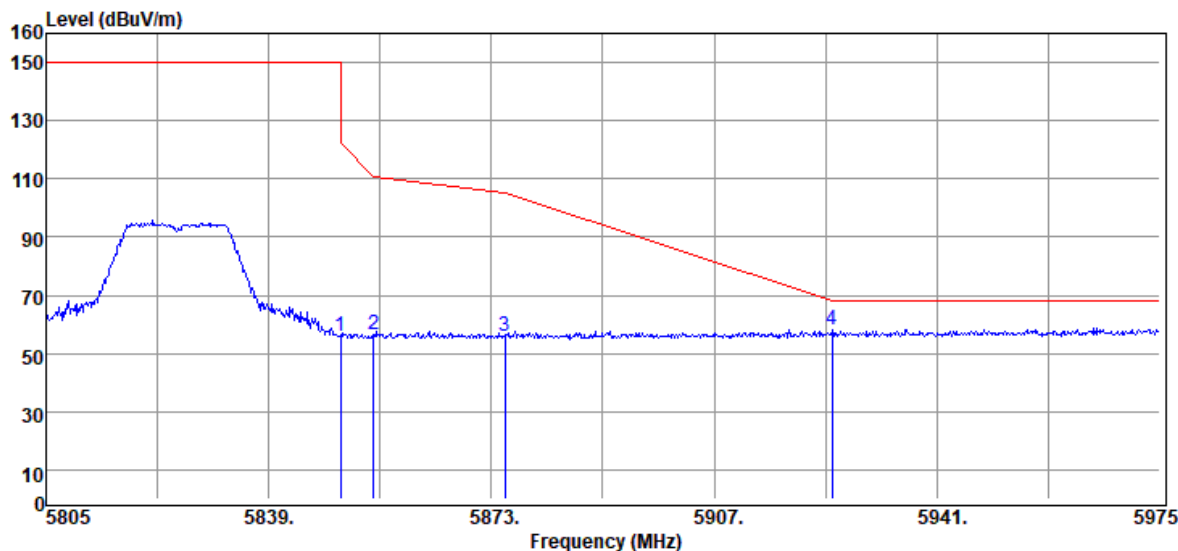
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Report Number :E2/2020/40008
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	39.33	16.85	56.18	122.20	-66.02
5855.00	Peak	39.41	16.84	56.25	110.80	-54.55
5875.00	Peak	38.92	16.77	55.69	105.20	-49.51
5925.00	Peak	41.25	16.94	58.19	68.20	-10.01

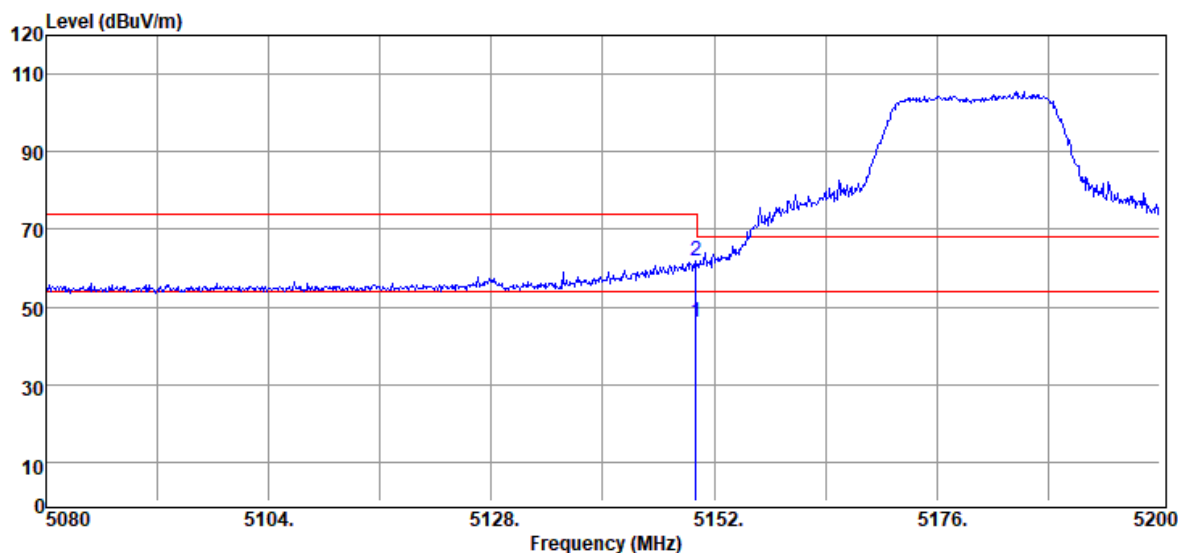
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	31.08	15.12	46.20	54.00	-7.80
5150.00	Peak	46.67	15.12	61.79	74.00	-12.21

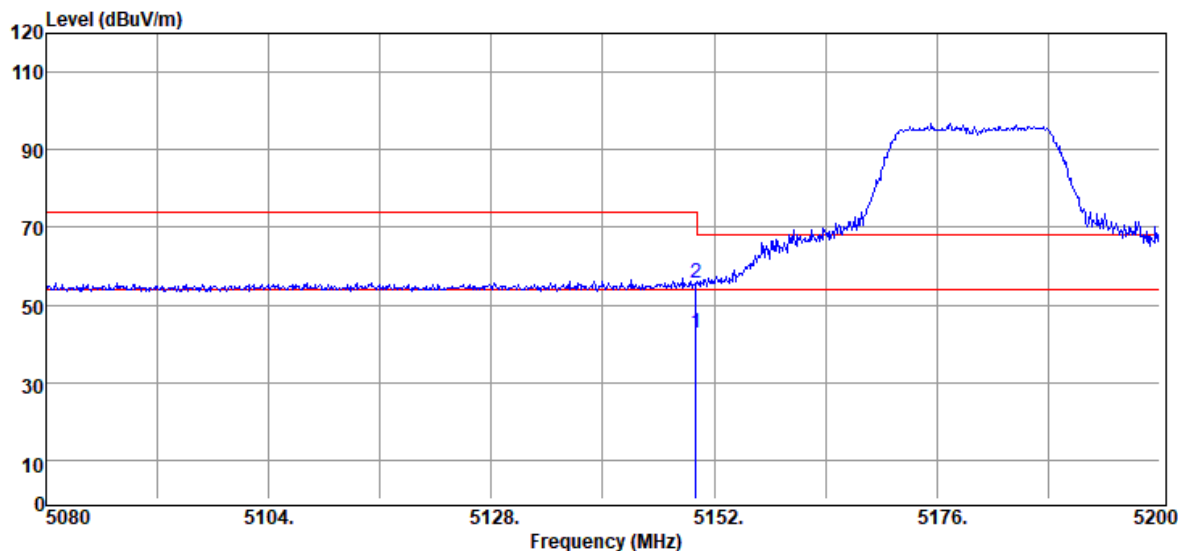
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	27.73	15.12	42.85	54.00	-11.15
5150.00	Peak	40.32	15.12	55.44	74.00	-18.56

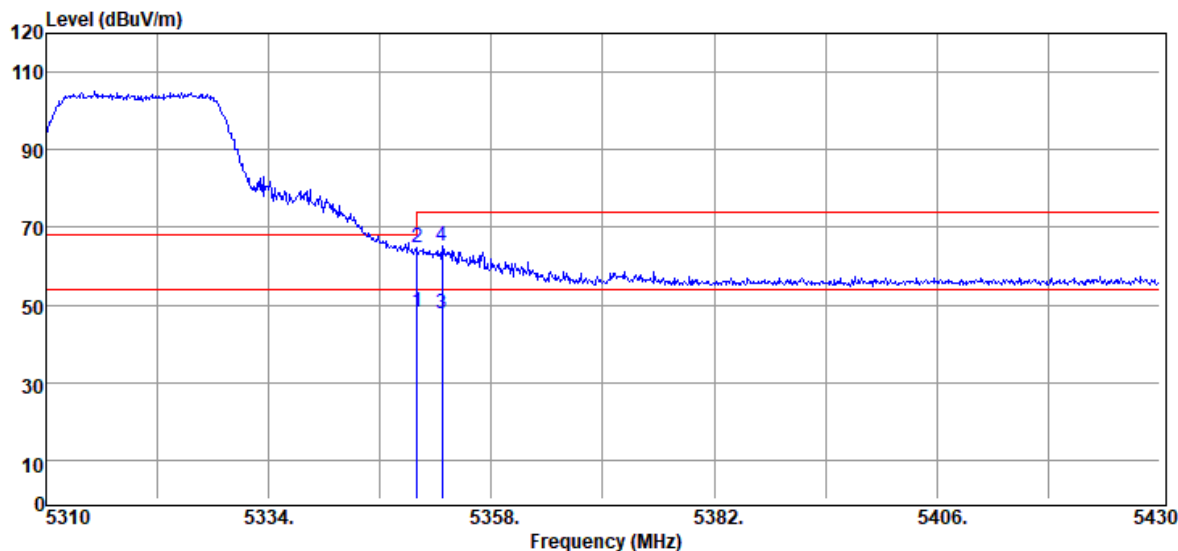
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 2
 Test Frequency :5320 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	32.38	15.60	47.98	54.00	-6.02
5350.00	Peak	49.33	15.60	64.93	74.00	-9.07
5352.72	Average	32.10	15.60	47.70	54.00	-6.30
5352.72	Peak	49.53	15.61	65.14	74.00	-8.86

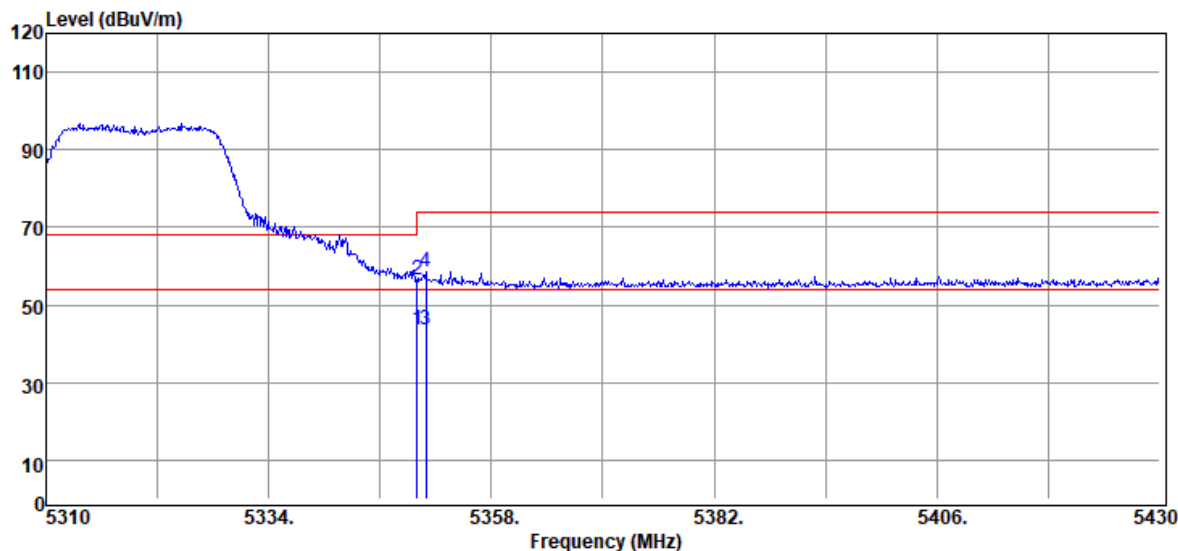
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Report Number :E2/2020/40008
Operation Mode :802.11n20 / Band 2
Test Frequency :5320 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	28.18	15.60	43.78	54.00	-10.22
5350.00	Peak	40.83	15.60	56.43	74.00	-17.57
5350.92	Average	27.84	15.60	43.44	54.00	-10.56
5350.92	Peak	42.76	15.60	58.36	74.00	-15.64

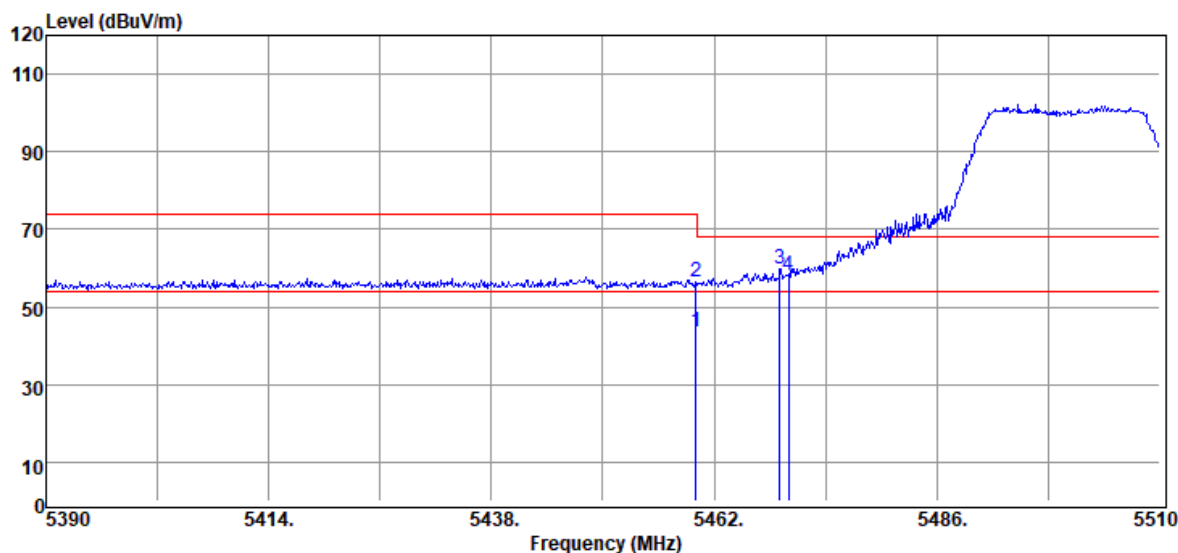
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-28
 Temp./Humi. :26.1/51
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	27.65	15.90	43.55	54.00	-10.45
5460.00	Peak	40.39	15.90	56.29	74.00	-17.71
5469.08	Peak	44.11	15.88	59.99	68.20	-8.21
5470.00	Peak	42.22	15.89	58.11	68.20	-10.09

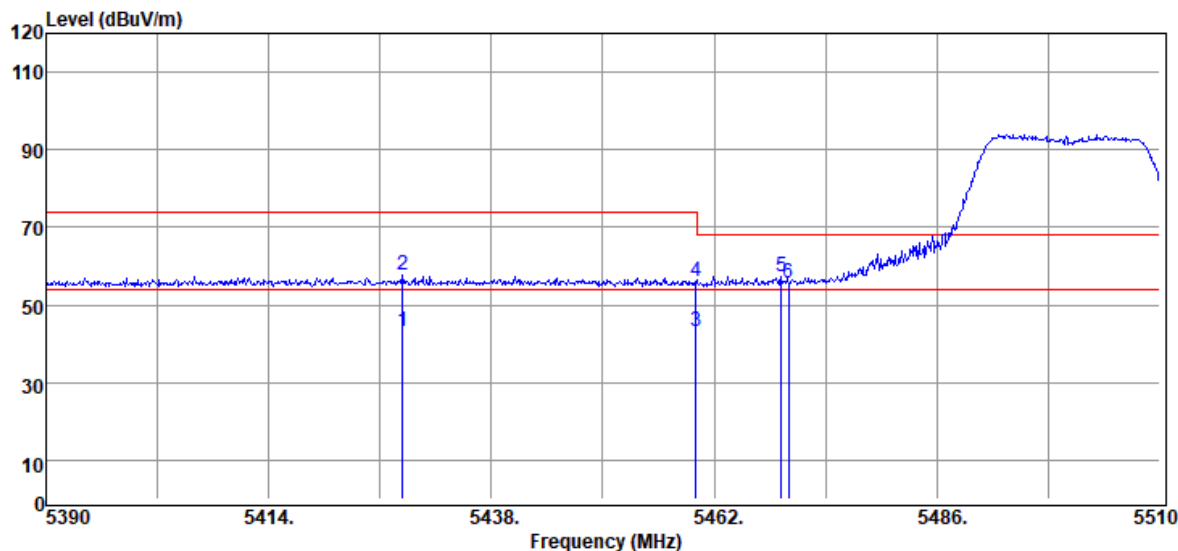
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Report Number :E2/2020/40008
Operation Mode :802.11n20 / Band 3
Test Frequency :5500 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5428.40	Average	27.24	15.94	43.18	54.00	-10.82
5428.40	Peak	41.87	15.94	57.81	74.00	-16.19
5460.00	Average	27.47	15.90	43.37	54.00	-10.63
5460.00	Peak	40.31	15.90	56.21	74.00	-17.79
5469.20	Peak	41.42	15.88	57.30	68.20	-10.90
5470.00	Peak	39.91	15.89	55.80	68.20	-12.40

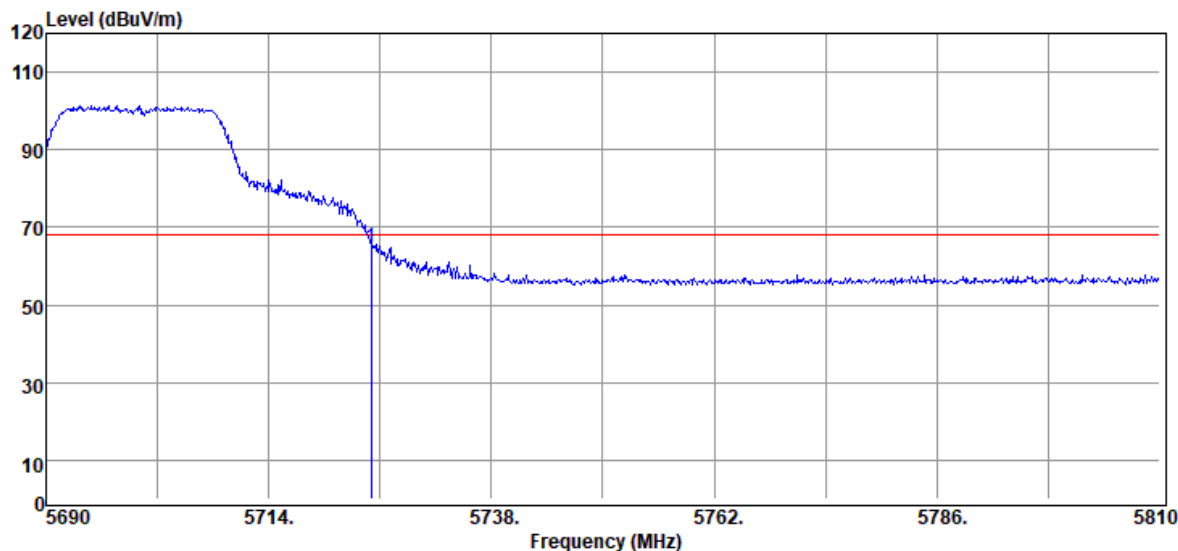
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Report Number :E2/2020/40008
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	48.47	16.44	64.91	68.20	-3.29

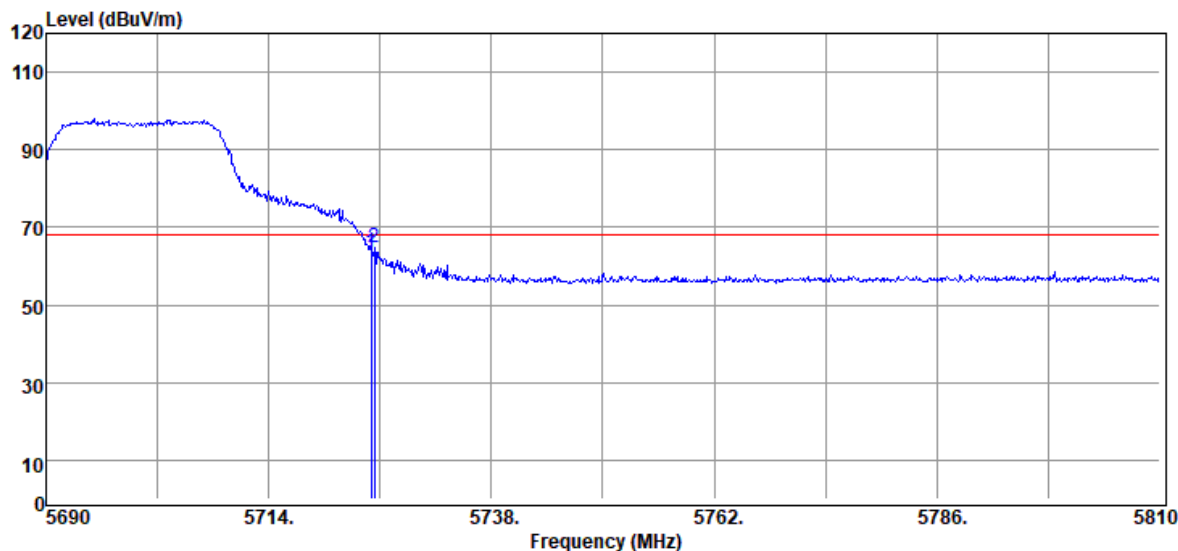
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Report Number :E2/2020/40008
Operation Mode :802.11n20 / Band 3
Test Frequency :5700 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-28
Temp./Humi. :26.1/51
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.17	16.44	63.61	68.20	-4.59
5725.40	Peak	48.40	16.44	64.84	68.20	-3.36

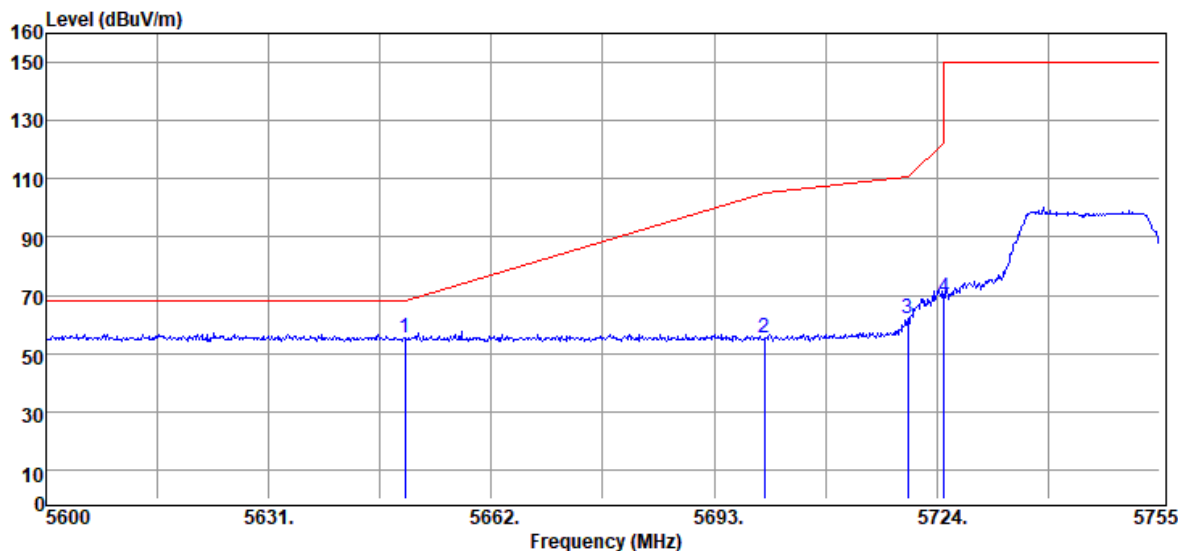
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.06	16.08	55.14	68.20	-13.06
5700.00	Peak	39.07	16.23	55.30	105.20	-49.90
5720.00	Peak	45.37	16.39	61.76	110.80	-49.04
5725.00	Peak	52.86	16.44	69.30	122.20	-52.90

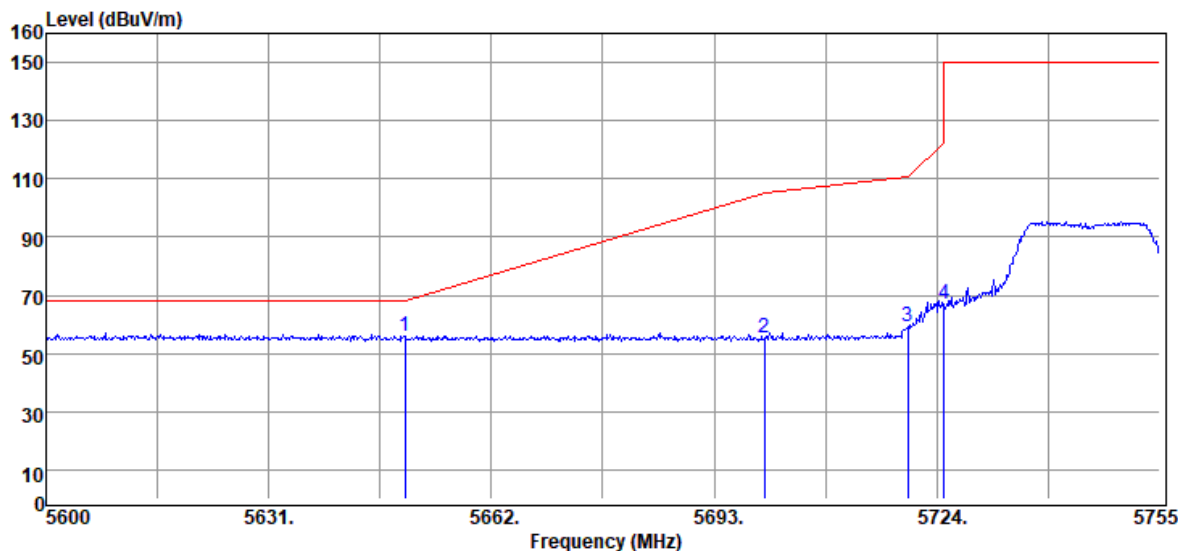
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5745 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	40.08	16.08	56.16	68.20	-12.04
5700.00	Peak	38.87	16.23	55.10	105.20	-50.10
5720.00	Peak	42.68	16.39	59.07	110.80	-51.73
5725.00	Peak	50.73	16.44	67.17	122.20	-55.03

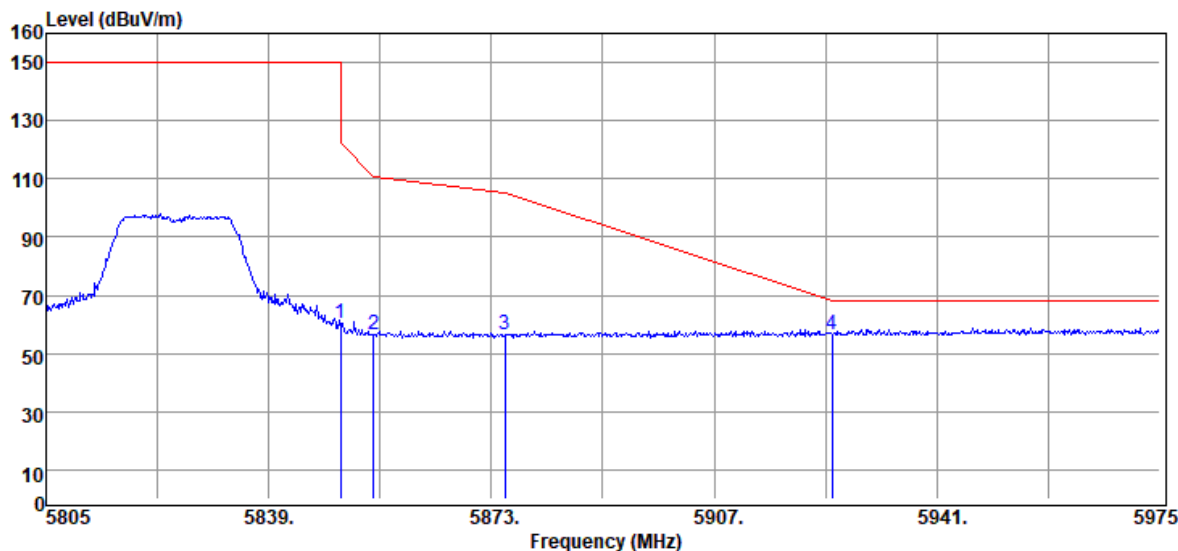
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5850.00	Peak	43.65	16.85	60.50	122.20	-61.70
5855.00	Peak	39.50	16.84	56.34	110.80	-54.46
5875.00	Peak	39.61	16.77	56.38	105.20	-48.82
5925.00	Peak	39.52	16.94	56.46	68.20	-11.74

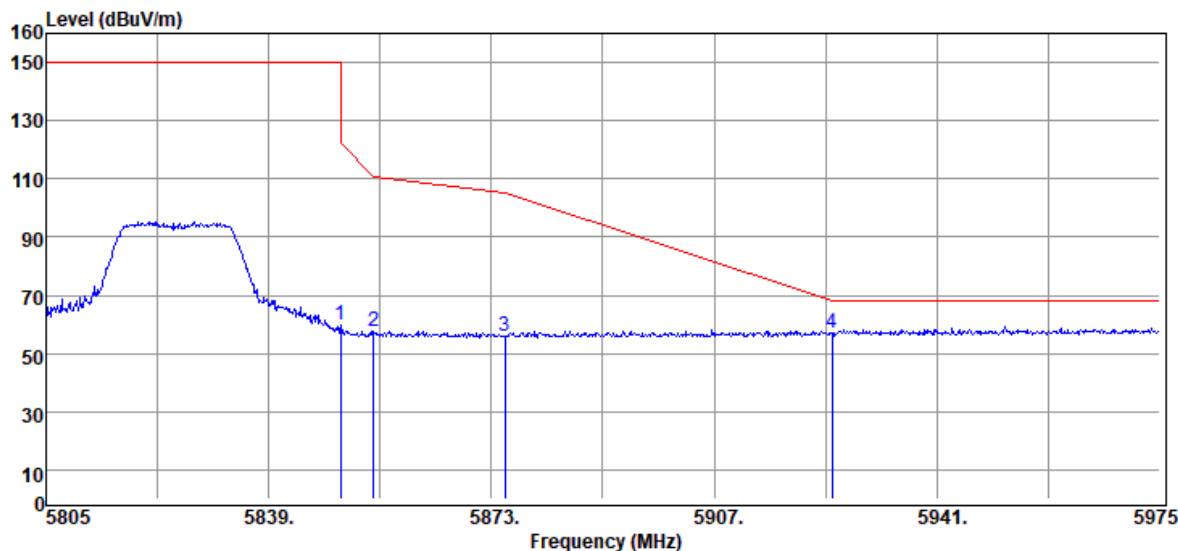
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Report Number :E2/2020/40008
 Operation Mode :802.11n20 / Band 4
 Test Frequency :5825 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	43.13	16.85	59.98	122.20	-62.22
5855.00	Peak	40.80	16.84	57.64	110.80	-53.16
5875.00	Peak	39.11	16.77	55.88	105.20	-49.32
5925.00	Peak	40.07	16.94	57.01	68.20	-11.19

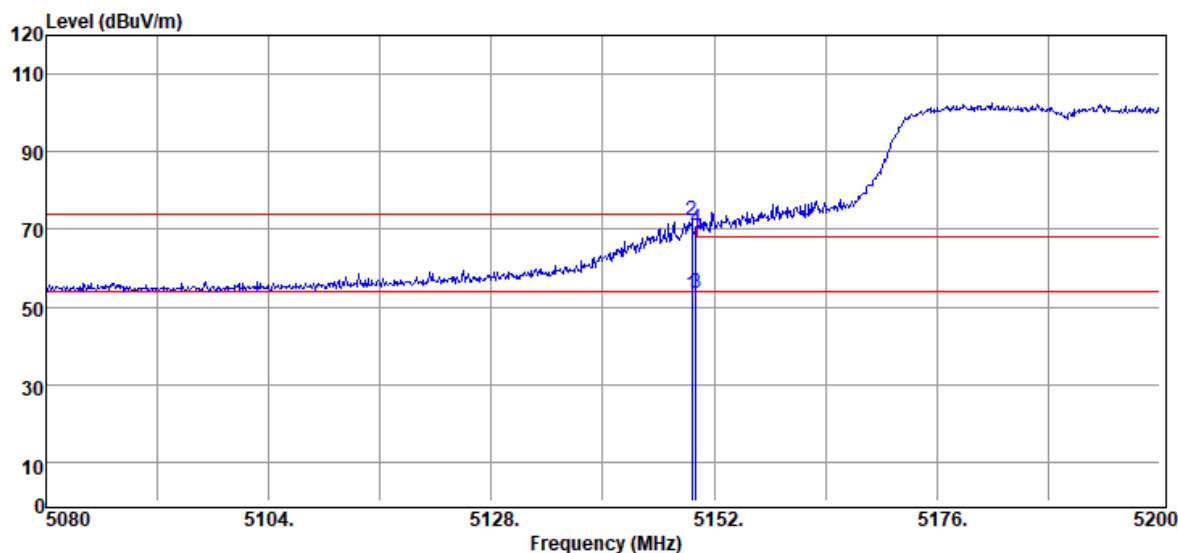
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	Average	37.19	15.11	52.30	54.00	-1.70
5149.60	Peak	57.31	15.11	72.42	74.00	-1.58
5150.00	Average	37.42	15.12	52.54	54.00	-1.46
5150.00	Peak	55.23	15.12	70.35	74.00	-3.65

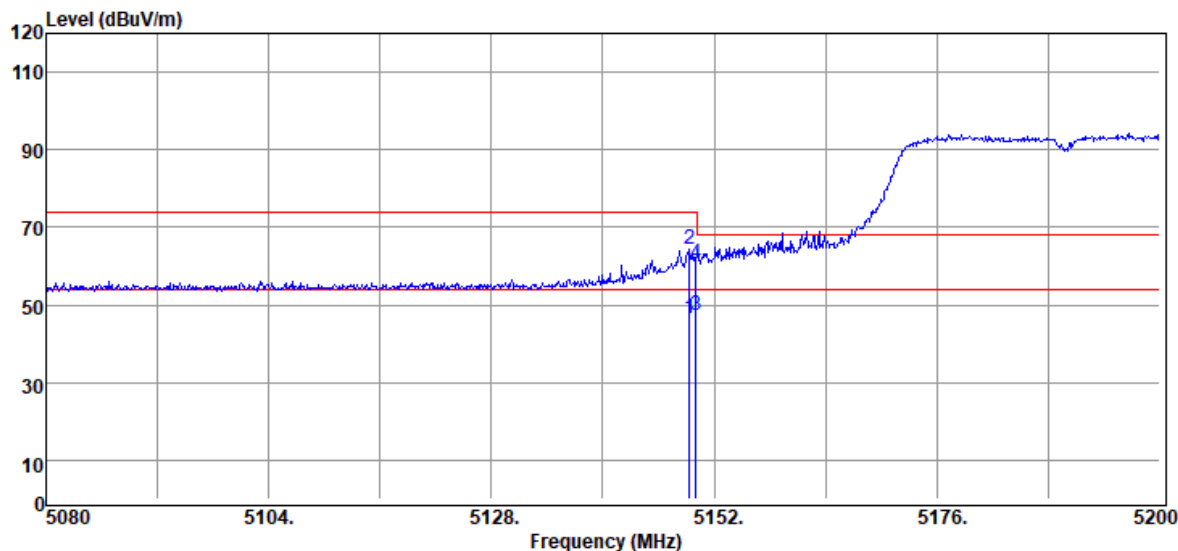
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Report Number :E2/2020/40008
Operation Mode :802.11n40 / Band 1
Test Frequency :5190 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.36	Average	31.52	15.11	46.63	54.00	-7.37
5149.36	Peak	49.33	15.11	64.44	74.00	-9.56
5150.00	Average	32.13	15.12	47.25	54.00	-6.75
5150.00	Peak	45.53	15.12	60.65	74.00	-13.35

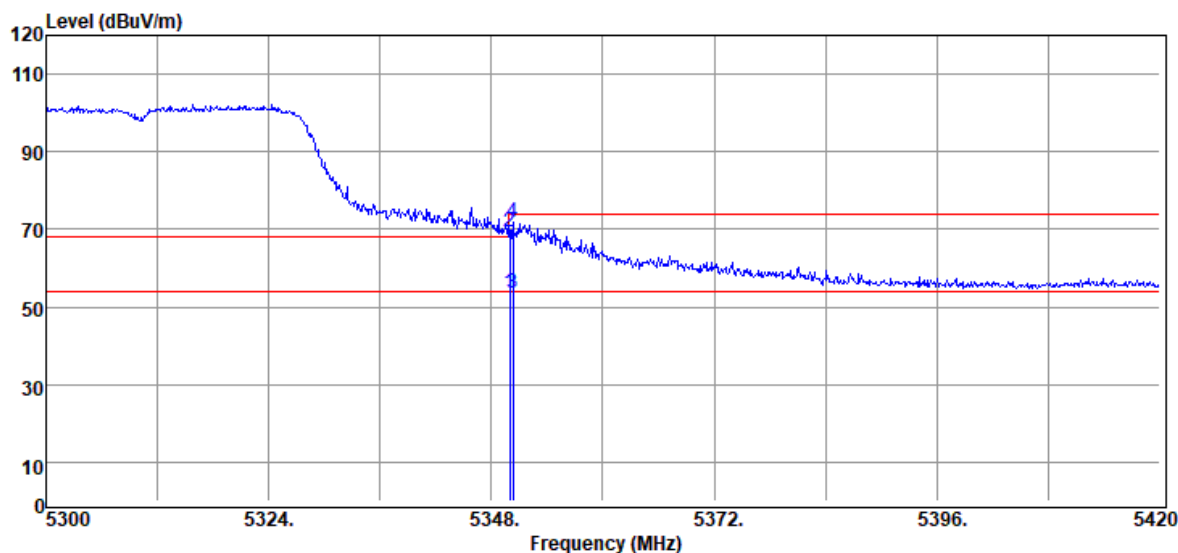
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Report Number :E2/2020/40008
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	36.88	15.60	52.48	54.00	-1.52
5350.00	Peak	53.59	15.60	69.19	74.00	-4.81
5350.28	Average	36.91	15.60	52.51	54.00	-1.49
5350.28	Peak	56.05	15.60	71.65	74.00	-2.35

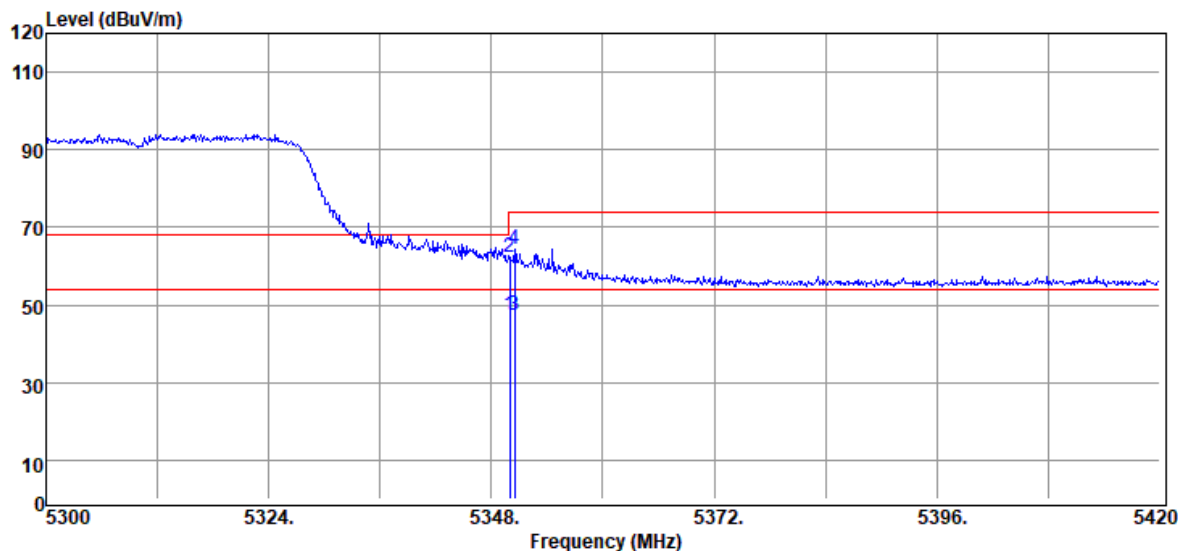
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Report Number :E2/2020/40008
Operation Mode :802.11n40 / Band 2
Test Frequency :5310 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	31.72	15.60	47.32	54.00	-6.68
5350.00	Peak	46.73	15.60	62.33	74.00	-11.67
5350.52	Average	31.55	15.60	47.15	54.00	-6.85
5350.52	Peak	48.90	15.60	64.50	74.00	-9.50

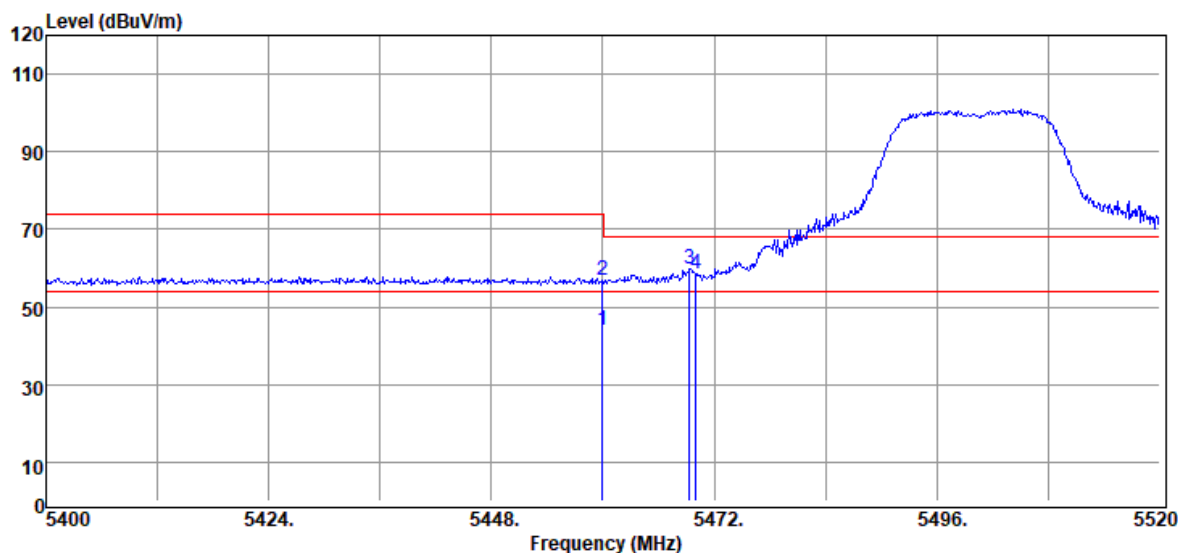
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5510 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	27.99	15.90	43.89	54.00	-10.11
5460.00	Peak	40.79	15.90	56.69	74.00	-17.31
5469.36	Peak	43.87	15.88	59.75	68.20	-8.45
5470.00	Peak	42.63	15.89	58.52	68.20	-9.68

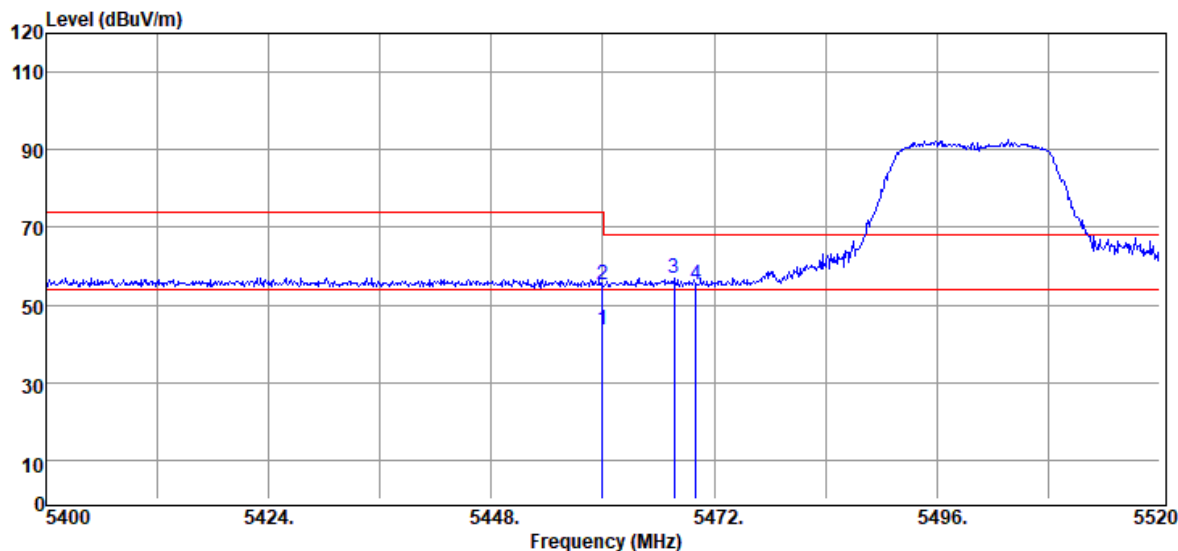
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Report Number :E2/2020/40008
Operation Mode :802.11n40 / Band 3
Test Frequency :5510 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	27.84	15.90	43.74	54.00	-10.26
5460.00	Peak	39.19	15.90	55.09	74.00	-18.91
5467.68	Peak	40.93	15.89	56.82	68.20	-11.38
5470.00	Peak	39.36	15.89	55.25	68.20	-12.95

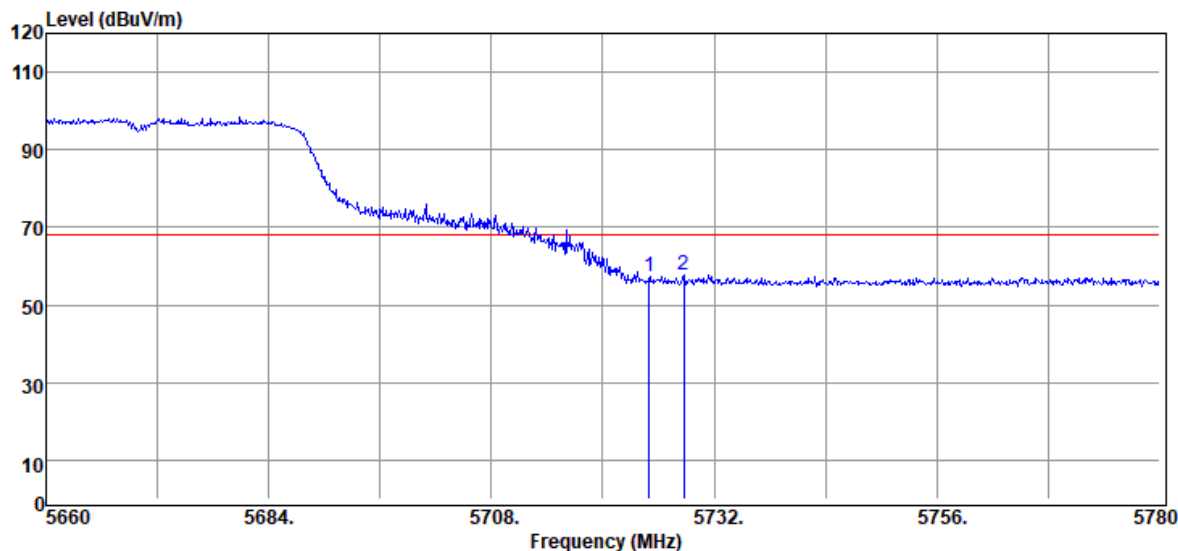
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	40.85	16.44	57.29	68.20	-10.91
5728.76	Peak	41.26	16.46	57.72	68.20	-10.48

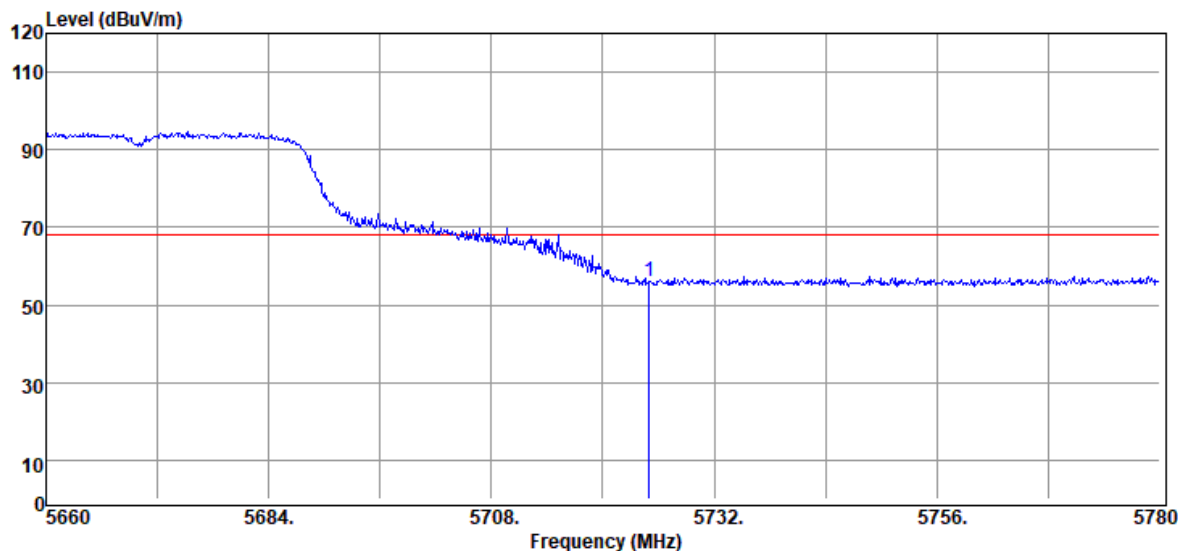
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 3
 Test Frequency :5670 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	39.48	16.44	55.92	68.20	-12.28

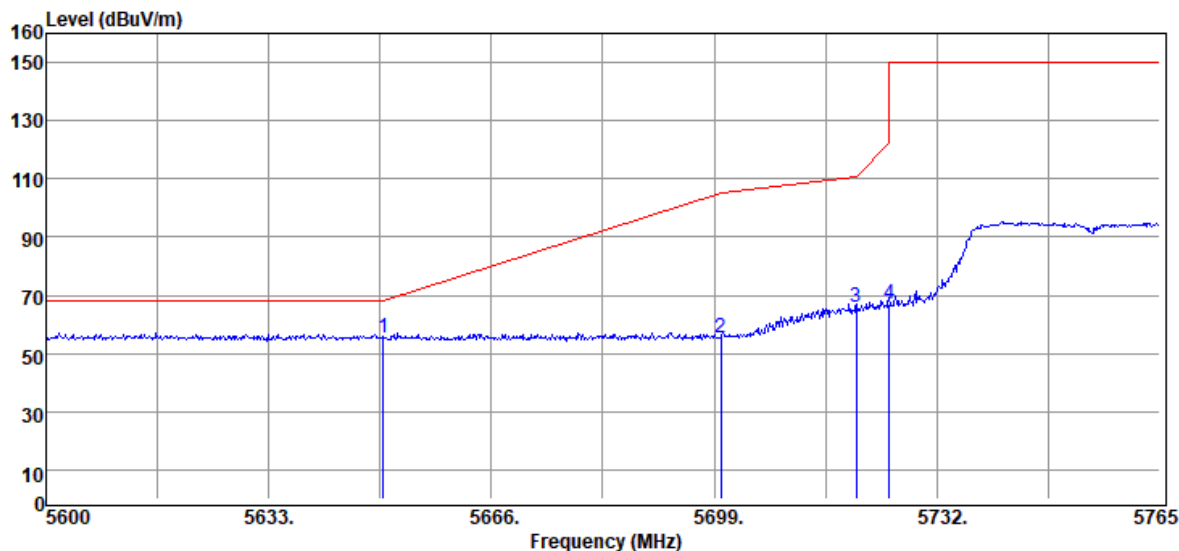
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Report Number :E2/2020/40008
Operation Mode :802.11n40 / Band 4
Test Frequency :5755 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plan

Test Date :2020-04-29
Temp./Humi. :25.8/55
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.45	16.08	55.53	68.20	-12.67
5700.00	Peak	39.25	16.23	55.48	105.20	-49.72
5720.00	Peak	49.30	16.39	65.69	110.80	-45.11
5725.00	Peak	50.70	16.44	67.14	122.20	-55.06

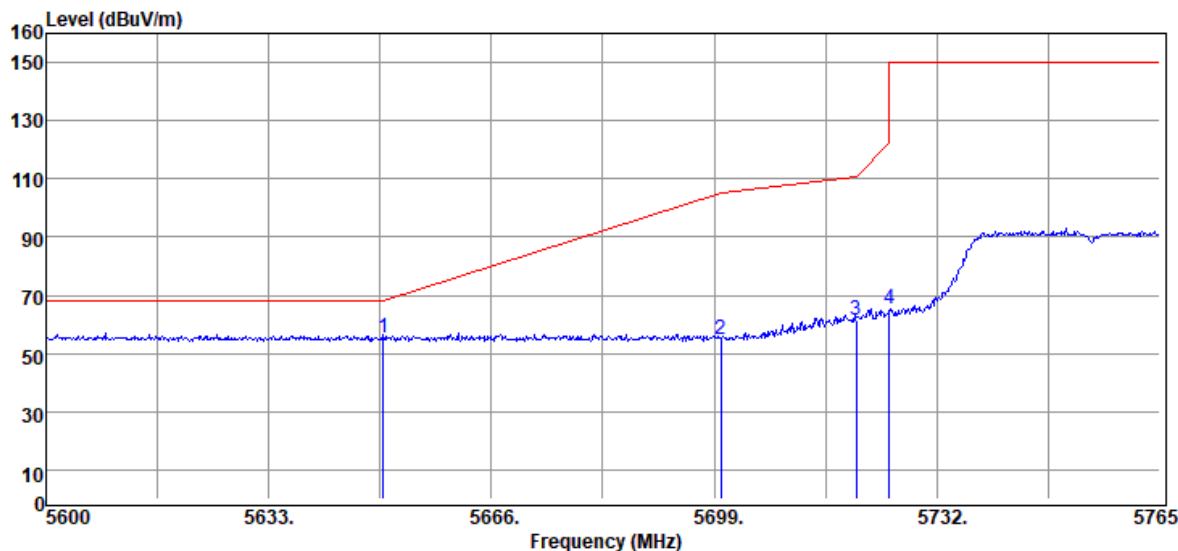
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5755 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.41	16.08	55.49	68.20	-12.71
5700.00	Peak	38.56	16.23	54.79	105.20	-50.41
5720.00	Peak	45.16	16.39	61.55	110.80	-49.25
5725.00	Peak	49.00	16.44	65.44	122.20	-56.76

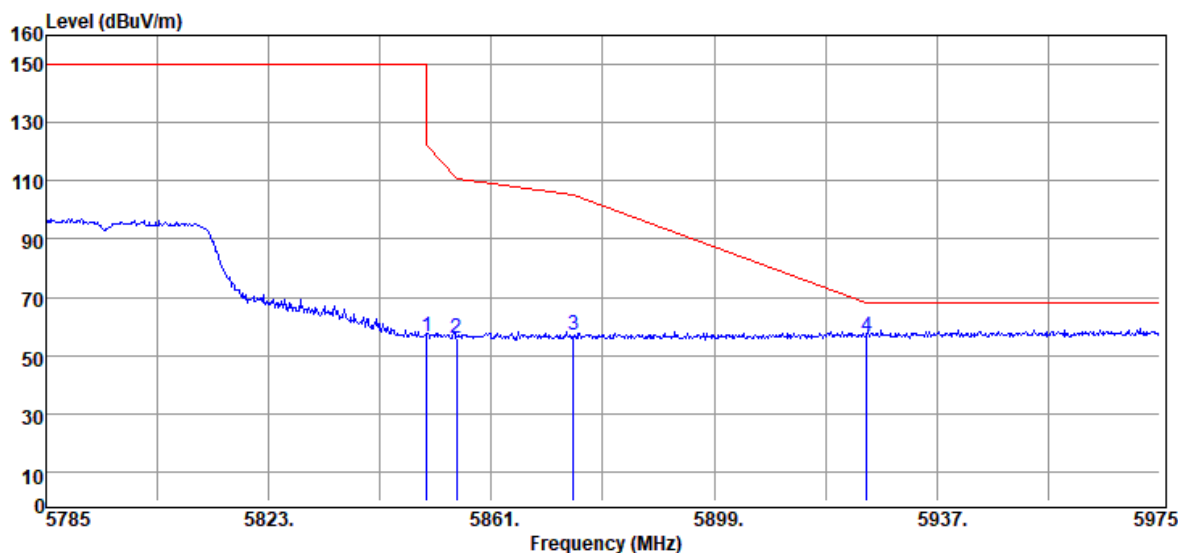
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	39.65	16.85	56.50	122.20	-65.70
5855.00	Peak	39.25	16.84	56.09	110.80	-54.71
5875.00	Peak	40.32	16.77	57.09	105.20	-48.11
5925.00	Peak	39.79	16.94	56.73	68.20	-11.47

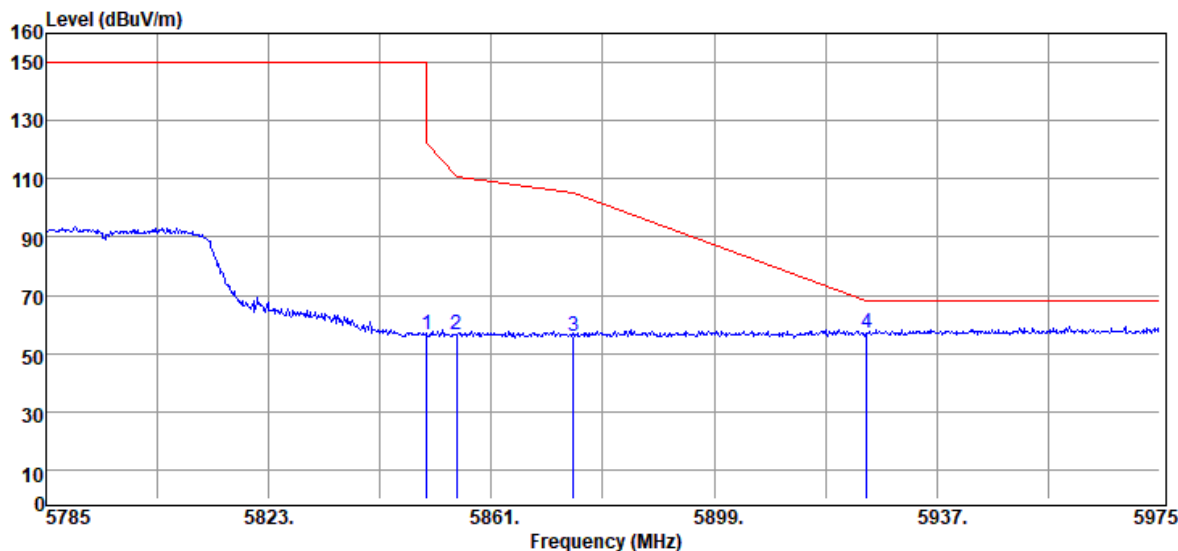
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Report Number :E2/2020/40008
 Operation Mode :802.11n40 / Band 4
 Test Frequency :5795 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Date :2020-04-29
 Temp./Humi. :25.8/55
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	39.68	16.85	56.53	122.20	-65.67
5855.00	Peak	39.81	16.84	56.65	110.80	-54.15
5875.00	Peak	39.11	16.77	55.88	105.20	-49.32
5925.00	Peak	40.02	16.94	56.96	68.20	-11.24

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7 ANTENNA REQUIREMENT

7.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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