



CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

CAR MULTIMEDIA

MODEL NUMBER: M3GL06L, M3GL06R

FCC ID: 2AEQT-M3GL06L

REPORT NUMBER: 4790583817-RF-2

ISSUE DATE: March 24, 2023

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 24, 2023	Initial Issue	



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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Not Applicable (See Note ***)
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band Edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band Edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

^{*} This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{**} The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C > when <Accuracy Method> decision rule is applied.

^{***} The EUT is an In-Vehicle devices.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Huizhou Desay SV Automotive Co., Ltd.

Address: NO.103, Hechang 5th Road West, Zhongkai National Hi-tech

Industrial Development Zone, Huizhou, Guangdong, P.R. China

Manufacturer Information

Company Name: Huizhou Desay SV Automotive Co., Ltd.

Address: NO.103, Hechang 5th Road West, Zhongkai National Hi-tech

Industrial Development Zone, Huizhou, Guangdong, P.R. China

EUT Information

EUT Name: CAR MULTIMEDIA Model: M3GL06L, M3GL06R

Model Difference: The difference lies only the touch screen buttons of the front

panel of the host are opposite, and the front panel Layout is

opposite for these two models.

Brand: DESAY SV

Sample Received Date: February 7, 2023

Sample ID: 5766290

Date of Tested: February 15, 2023 to March 24, 2023

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	PASS		

Drangrad Dv	Charled Dv
Prepared By:	Checked By:
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Senior Project Engineer	Senior Project Engineer
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Stephen Luo	

Stephen Guo

Operations Manager



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2. TEST METHODOLOGY

All tests were performed in accordance with the standard KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification
	rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Uncertainty
3.62 dB
2.2 dB
4.00 dB
5.78 dB (1 GHz ~ 18 GHz)
5.23 dB (18 GHz ~ 26 GHz)
±0.028%
±0.0196%
±0.686 dB
±0.743 dB
±1.328 dB
±0.746 dB (9 kHz ~ 1 GHz)
±1.328dB (1 GHz ~ 26 GHz)

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	CAR MULTIMEDIA		
Model	M3GL06L, M3GL06R		
Model Difference:	The difference lies only the touch screen buttons of the front panel of the host are opposite, and the front panel Layout is opposite for these two models. Pre-scan had been done for both the two models and only the worst case data (M3GL06L) was recorded in the report.		
Technology	Bluetooth - Low Energy		
Transmit Frequency Range	e 2402 MHz ~ 2480 MHz		
Modulation	GFSK		
Data Rate	LE 1M 1 Mbps		
Ratings	DC 12 V		

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2468	/	/

5.3. MAXIMUM OUTPUT POWER

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)
LE 1M	2402 ~ 2480	0-39[40]	8.81



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5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
LE 1M	CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel)	2402 MHz, 2440 MHz, 2480 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Softwar	e Version	BlueTool		
Modulation	Transmit	Test Software setting value		
Type	Antenna Number	CH 0	CH 19	CH 39
LE 1M	1	Default	Default	Default

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	2402 ~ 2480	PCB	-1.336

Test Mode	Transmit and Receive Mode	Description
LE 1M	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.



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5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	XIAOXIN 5000	/
2	UART	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	DC	/	/	1	/

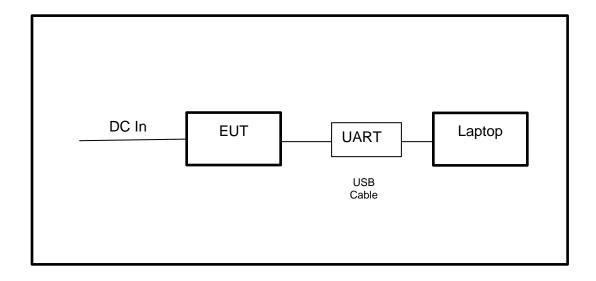
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS





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6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System									
Equipment	ſ	Manufacturer Model		Model	No.	Serial No.	Last C	al.	Due. Date
Power sensor, Power M	leter	R&S		OSP1	20	100921	Apr.02,2	2022	Apr.01,2023
Vector Signal Genera	tor	R&S		SMBV1	00A	261637	Oct.17, 2	2022	Oct.16, 2023
Signal Generator		R&S		SMB10	A00	178553	Oct.17, 2	2022	Oct.16, 2023
Signal Analyzer		R&S		FSV4	10	101118	Oct.17, 2	2022	Oct.16, 2023
				Softwar	е				
Description		N	/lanut	acturer		Nam	ne		Version
For R&S TS 8997 Test	Syster	m Rol	nde 8	Schwai	rz	EMC	32		10.60.10
Tonsend RF Test System									
Equipment	Manu	ufacturer Mod		del No.	S	Serial No.	Last C	Cal.	Due. Date
Wideband Radio Communication Tester	R	R&S	CM	IW500		155523	Oct.17,	2022	Oct.16, 2023
Wireless Connectivity Tester	R	2&S	CM	IW270	120	1.0002N75- 102	Sep.28,	2022	Sep.27, 2023
PXA Signal Analyzer	Key	ysight	N9	030A	MY	′55410512	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Key	ysight	N5	182B	MY	′56200284	Oct.17,	2022	Oct.16, 2023
MXG Vector Signal Generator	Key	ysight	N5	172B	MY	′56200301	Oct.17,	2022	Oct.16, 2023
DC power supply	Key	Keysight E3		642A	MY	′55159130	Oct.17,	2022	Oct.16, 2023
Attenuator	Ag	Agilent 84		495B	28	14a12853	Oct.18,	2022	Oct.17, 2023
	Software								
Description	N	/lanufact	urer		Name			Version	
Tonsend SRD Test Syst	tem	Tonser	nd	JS1	120-3	3 RF Test S	ystem	2	.6.77.0518



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Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01202035	Oct.17, 2022	Oct.16, 2023
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	1	/
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	I	/
Software					
	Description		Manufacturer	Name	Version
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1



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7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

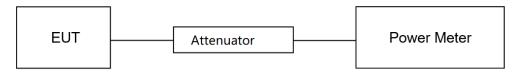
CFR 47 FCC Part15 (15.247) Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	
CFR 47 FCC 15.247(b)(3)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5	

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix C



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7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5	
/	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: ≥3 x RBW For 99 % Occupied Bandwidth: ≥3 x RBW
Trace	Max hold
Sweep	Auto couple

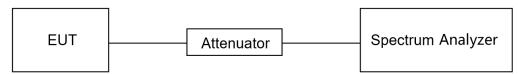
a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B



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7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C				
Section Test Item Limit Frequency Range (MHz)				
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

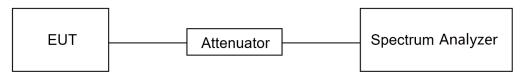
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix D



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7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section Test Item Limit			
CFR 47 FCC §15.247 (d) Conducted Bandedge and Spurious Emissions Conducted at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power			

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

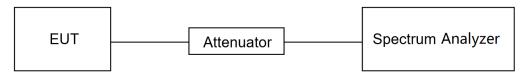
Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.



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TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix E&F



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7.5. DUTY CYCLE

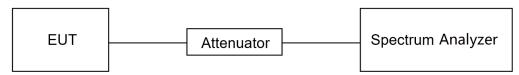
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1 °C	Relative Humidity	51.2%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

TEST RESULTS

Please refer to section "Test Data" - Appendix G



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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC $\S15.205$ and $\S15.209$. Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

, , , , , , , , , , , , , , , , , , , ,				
Emissions radiated outside of the specified frequency bands above 30 MHz				
Frequency Range	Field Strength Limit	Field Strength Limit		
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m		
		Quasi-Peak		
30 - 88	100	40		
88 - 216	150	43.5		
216 - 960	200	46		
Above 960	500	54		
Above 1000	500	Peak	Average	
Above 1000		74	54	

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)			
0.009-0.490	2400/F(kHz)	300	
0.490-1.705 24000/F(kHz) 30		30	
1.705-30.0	30	30	

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



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Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.7. ON TIME AND DUTY CYCLE.



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For Restricted Bandedge:

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.5.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

- 1. Result Level = Read Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



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For Radiate Spurious Emission (1 GHz ~ 3 GHz):

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.5.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.5.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

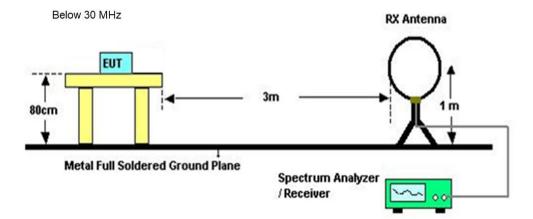
For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

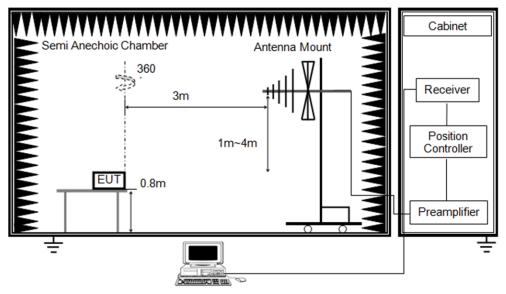
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



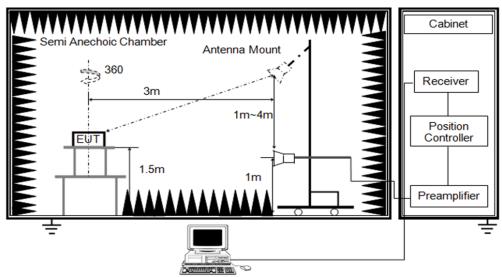
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





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TEST ENVIRONMENT

Temperature	25.2 °C	Relative Humidity	67%
Atmosphere Pressure	101 kPa	Test Voltage	DC 12 V

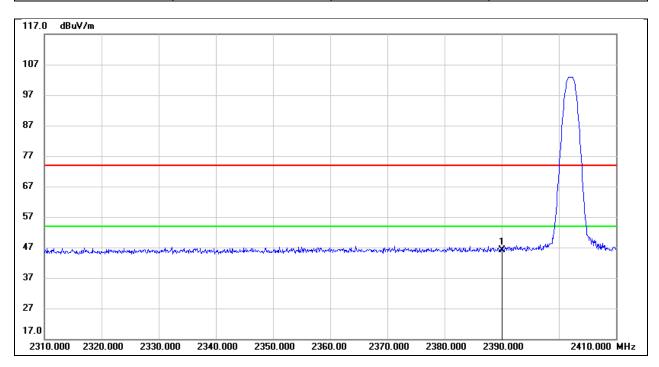
TEST RESULTS



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8.1. RESTRICTED BANDEDGE

Test Mode:	LE 1M Peak	Channel:	2402 MHz
Polarity:	Vertical	Test Voltage:	DC 12V

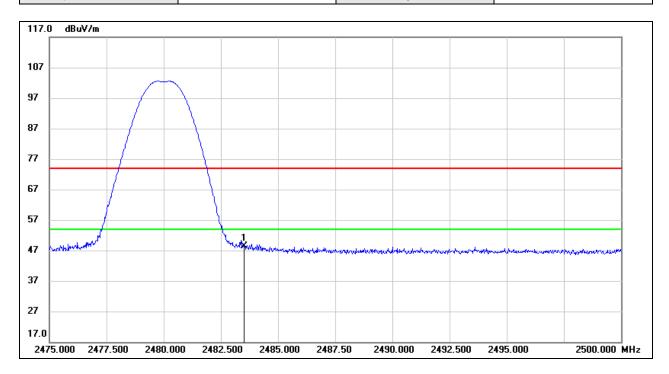


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	13.93	32.16	46.09	74.00	-27.91	peak



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Test Mode: LE 1M Peak Channel: 2480 MHz
Polarity: Vertical Test Voltage: DC 12 V



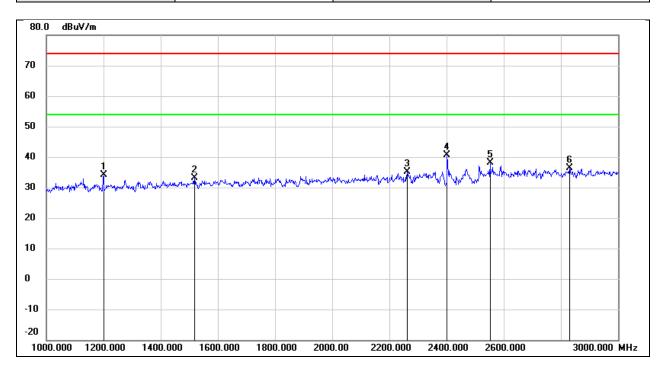
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	16.05	32.44	48.49	74.00	-25.51	peak



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8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

Test Mode:	LE 1M	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

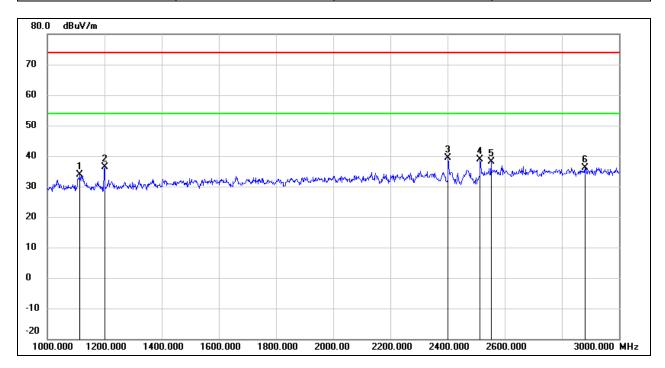


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.000	48.16	-14.10	34.06	74.00	-39.94	peak
2	1518.000	45.81	-12.65	33.16	74.00	-40.84	peak
3	2262.000	44.96	-9.72	35.24	74.00	-38.76	peak
4	2402.000	49.55	-8.99	40.56	74.00	-33.44	peak
5	2552.000	46.39	-8.33	38.06	74.00	-35.94	peak
6	2830.000	44.00	-7.50	36.50	74.00	-37.50	peak



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Test Mode:	LE 1M	Channel:	2402 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

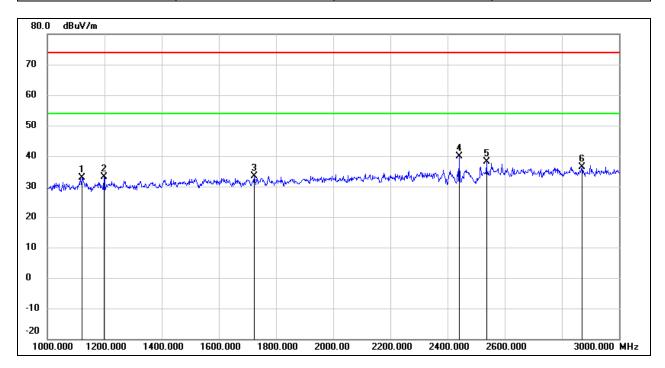


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1114.000	48.50	-14.50	34.00	74.00	-40.00	peak
2	1200.000	50.55	-14.10	36.45	74.00	-37.55	peak
3	2402.000	48.46	-8.99	39.47	74.00	-34.53	peak
4	2514.000	47.43	-8.44	38.99	74.00	-35.01	peak
5	2552.000	46.52	-8.33	38.19	74.00	-35.81	peak
6	2882.000	43.48	-7.33	36.15	74.00	-37.85	peak



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Test Mode:	LE 1M	Channel:	2440 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

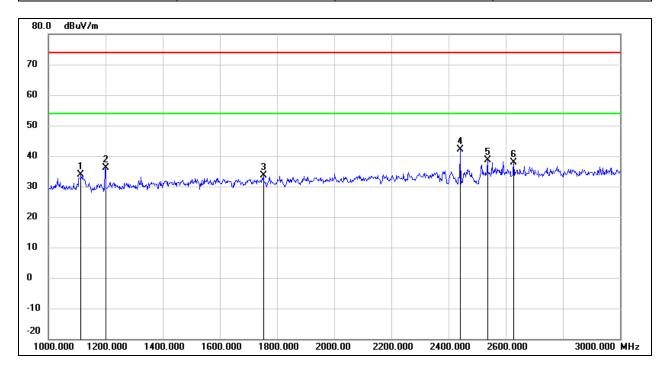


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1120.000	47.25	-14.47	32.78	74.00	-41.22	peak
2	1198.000	47.33	-14.11	33.22	74.00	-40.78	peak
3	1724.000	45.33	-11.97	33.36	74.00	-40.64	peak
4	2440.000	48.57	-8.80	39.77	74.00	-34.23	peak
5	2536.000	46.57	-8.38	38.19	74.00	-35.81	peak
6	2870.000	43.76	-7.37	36.39	74.00	-37.61	peak



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Test Mode:	LE 1M	Channel:	2440 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

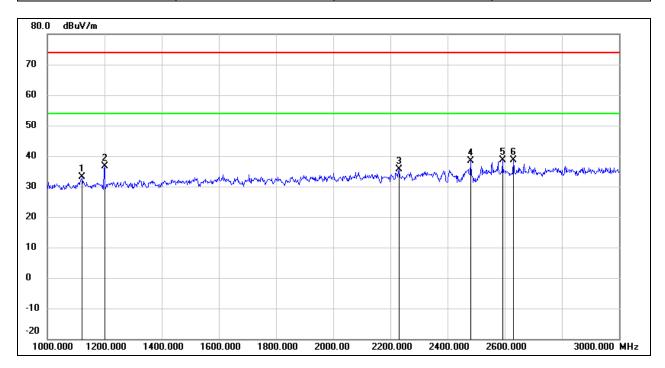


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1114.000	48.31	-14.50	33.81	74.00	-40.19	peak
2	1200.000	50.34	-14.10	36.24	74.00	-37.76	peak
3	1752.000	45.61	-11.88	33.73	74.00	-40.27	peak
4	2440.000	50.87	-8.80	42.07	74.00	-31.93	peak
5	2536.000	47.09	-8.38	38.71	74.00	-35.29	peak
6	2628.000	45.97	-8.10	37.87	74.00	-36.13	peak



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Test Mode:	LE 1M	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

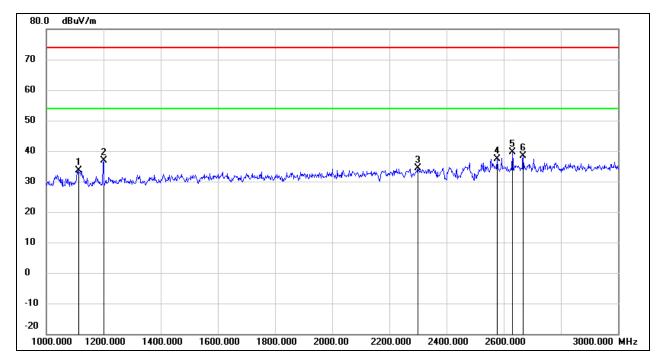


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1122.000	47.60	-14.47	33.13	74.00	-40.87	peak
2	1200.000	50.61	-14.10	36.51	74.00	-37.49	peak
3	2230.000	45.42	-9.88	35.54	74.00	-38.46	peak
4	2480.000	47.09	-8.59	38.50	74.00	-35.50	peak
5	2592.000	46.91	-8.21	38.70	74.00	-35.30	peak
6	2630.000	46.83	-8.10	38.73	74.00	-35.27	peak



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Test Mode:	LE 1M	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



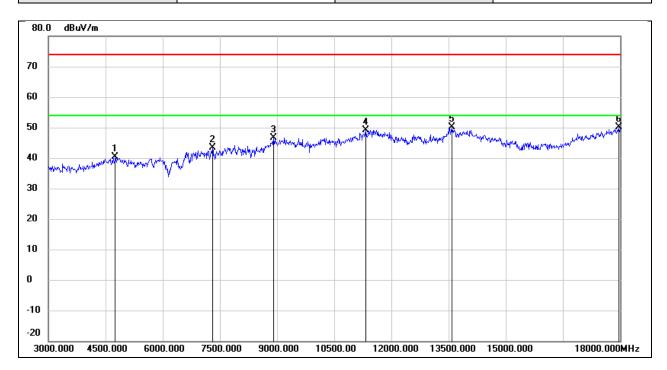
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1112.000	48.13	-14.51	33.62	74.00	-40.38	peak
2	1200.000	51.07	-14.10	36.97	74.00	-37.03	peak
3	2300.000	43.98	-9.52	34.46	74.00	-39.54	peak
4	2576.000	45.74	-8.26	37.48	74.00	-36.52	peak
5	2630.000	47.68	-8.10	39.58	74.00	-34.42	peak
6	2668.000	46.30	-7.98	38.32	74.00	-35.68	peak



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8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

Test Mode:	LE 1M	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

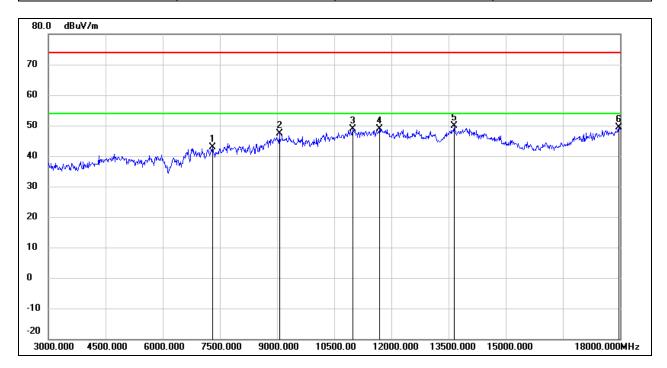


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4755.000	40.81	-0.48	40.33	74.00	-33.67	peak
2	7305.000	36.89	6.47	43.36	74.00	-30.64	peak
3	8910.000	36.80	9.82	46.62	74.00	-27.38	peak
4	11325.000	33.29	15.95	49.24	74.00	-24.76	peak
5	13590.000	29.00	21.09	50.09	74.00	-23.91	peak
6	17970.000	24.50	25.51	50.01	74.00	-23.99	peak



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Test Mode:	LE 1M	Channel:	2402 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

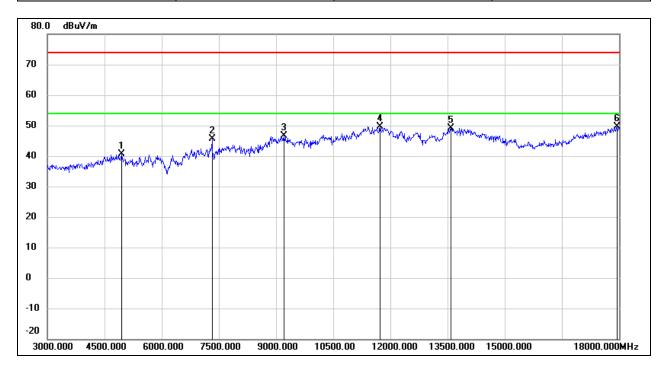


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7305.000	36.33	6.47	42.80	74.00	-31.20	peak
2	9060.000	36.95	10.51	47.46	74.00	-26.54	peak
3	10980.000	34.08	14.69	48.77	74.00	-25.23	peak
4	11685.000	31.77	17.10	48.87	74.00	-25.13	peak
5	13650.000	28.61	21.21	49.82	74.00	-24.18	peak
6	17970.000	23.84	25.51	49.35	74.00	-24.65	peak



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Test Mode:	LE 1M	Channel:	2440 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

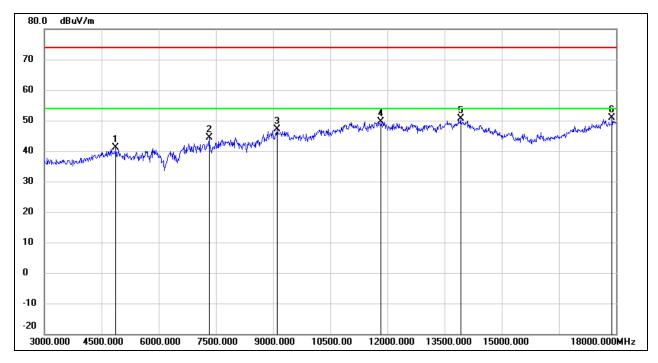


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	40.41	0.26	40.67	74.00	-33.33	peak
2	7320.000	39.21	6.46	45.67	74.00	-28.33	peak
3	9210.000	35.95	10.57	46.52	74.00	-27.48	peak
4	11730.000	32.47	17.22	49.69	74.00	-24.31	peak
5	13590.000	27.97	21.09	49.06	74.00	-24.94	peak
6	17940.000	24.30	25.34	49.64	74.00	-24.36	peak



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Test Mode:	LE 1M	Channel:	2440 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V

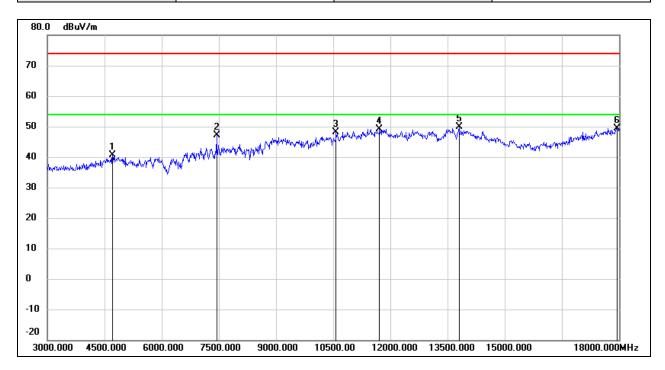


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.08	-0.03	41.05	74.00	-32.95	peak
2	7320.000	37.87	6.46	44.33	74.00	-29.67	peak
3	9105.000	36.64	10.53	47.17	74.00	-26.83	peak
4	11835.000	32.04	17.51	49.55	74.00	-24.45	peak
5	13920.000	28.73	21.79	50.52	74.00	-23.48	peak
6	17895.000	25.69	25.07	50.76	74.00	-23.24	peak



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Test Mode:	LE 1M	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

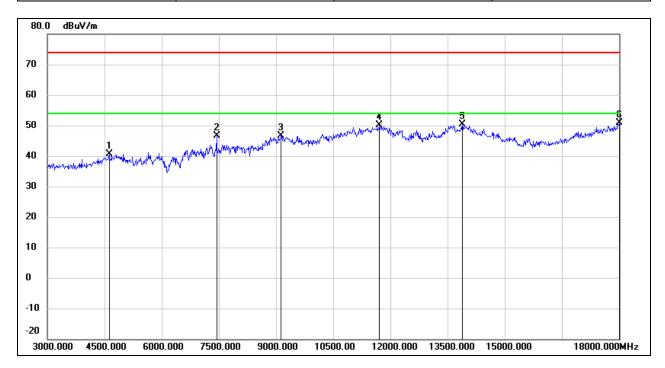


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4710.000	41.18	-0.66	40.52	74.00	-33.48	peak
2	7440.000	40.82	6.38	47.20	74.00	-26.80	peak
3	10575.000	34.93	13.25	48.18	74.00	-25.82	peak
4	11715.000	31.91	17.19	49.10	74.00	-24.90	peak
5	13800.000	28.27	21.54	49.81	74.00	-24.19	peak
6	17955.000	24.06	25.42	49.48	74.00	-24.52	peak



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Test Mode:	LE 1M	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



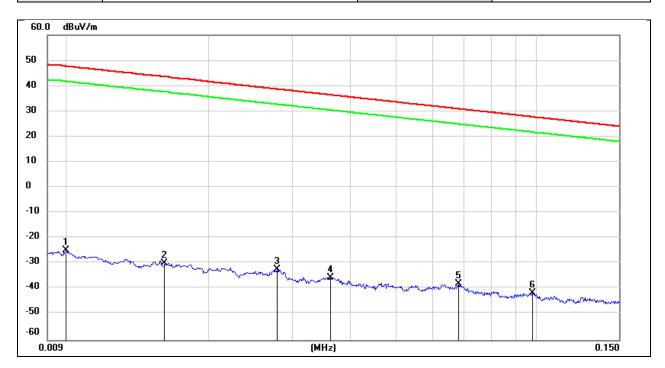
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4620.000	41.60	-1.00	40.60	74.00	-33.40	peak
2	7440.000	40.14	6.38	46.52	74.00	-27.48	peak
3	9135.000	36.05	10.55	46.60	74.00	-27.40	peak
4	11715.000	32.91	17.19	50.10	74.00	-23.90	peak
5	13890.000	28.60	21.72	50.32	74.00	-23.68	peak
6	18000.000	25.07	25.69	50.76	74.00	-23.24	peak



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8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	LE 1M	Channel:	2441 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 12 V

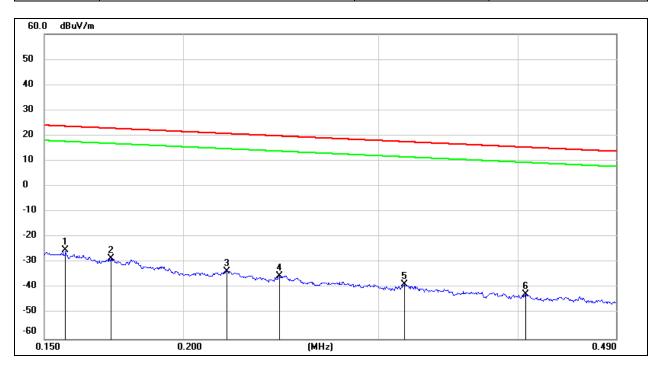


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	76.72	-101.40	-24.68	47.60	-72.28	peak
2	0.0160	71.47	-101.37	-29.90	43.52	-73.42	peak
3	0.0279	69.17	-101.38	-32.21	38.69	-70.90	peak
4	0.0362	66.01	-101.42	-35.41	36.43	-71.84	peak
5	0.0680	63.54	-101.56	-38.02	30.95	-68.97	peak
6	0.0981	60.27	-101.78	-41.51	27.77	-69.28	peak



Test Mode: LE 1M Channel: 2441 MHz Polarity: Loop Antenna Face On To The EUT Test Voltage DC 12 V

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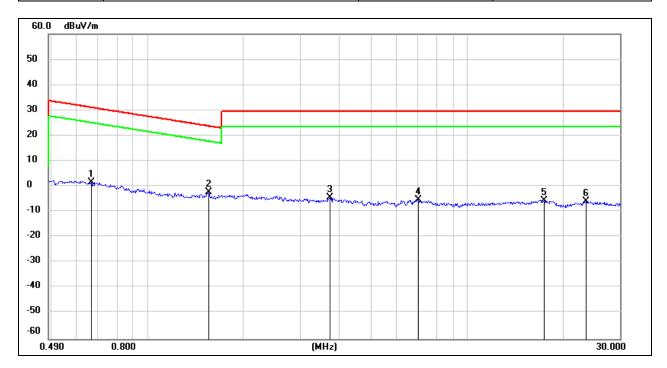


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1567	76.45	-101.65	-25.20	23.70	-48.90	peak
2	0.1720	73.19	-101.67	-28.48	22.90	-51.38	peak
3	0.2190	68.27	-101.75	-33.48	20.79	-54.27	peak
4	0.2442	66.53	-101.79	-35.26	19.85	-55.11	peak
5	0.3163	63.20	-101.87	-38.67	17.60	-56.27	peak
6	0.4062	59.64	-101.96	-42.32	15.43	-57.75	peak



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Test Mode:	LE 1M	Channel:	2441 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 12 V



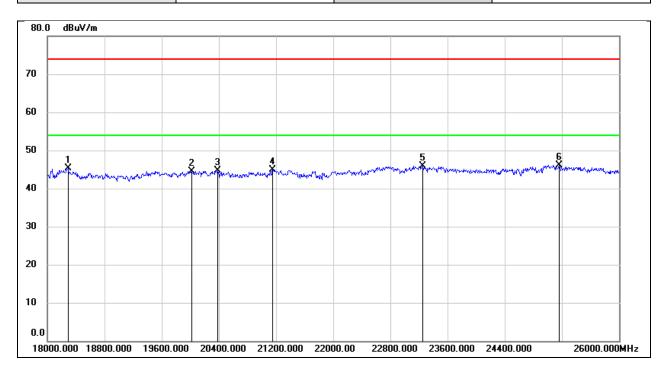
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6671	63.75	-62.10	1.65	31.12	-29.47	peak
2	1.5564	59.68	-62.02	-2.34	23.76	-26.10	peak
3	3.7100	57.20	-61.41	-4.21	29.54	-33.75	peak
4	7.0411	56.06	-61.21	-5.15	29.54	-34.69	peak
5	17.3992	55.43	-60.92	-5.49	29.54	-35.03	peak
6	23.4783	54.74	-60.56	-5.82	29.54	-35.36	peak



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8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	LE 1M	Channel:	2441 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

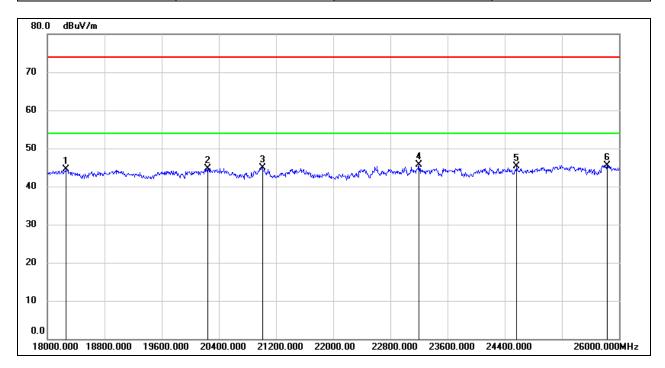


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18288.000	50.85	-5.50	45.35	74.00	-28.65	peak
2	20016.000	50.06	-5.47	44.59	74.00	-29.41	peak
3	20384.000	50.20	-5.46	44.74	74.00	-29.26	peak
4	21152.000	49.70	-4.81	44.89	74.00	-29.11	peak
5	23256.000	49.22	-3.35	45.87	74.00	-28.13	peak
6	25160.000	47.92	-1.83	46.09	74.00	-27.91	peak



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Test Mode:	LE 1M	Channel:	2441 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



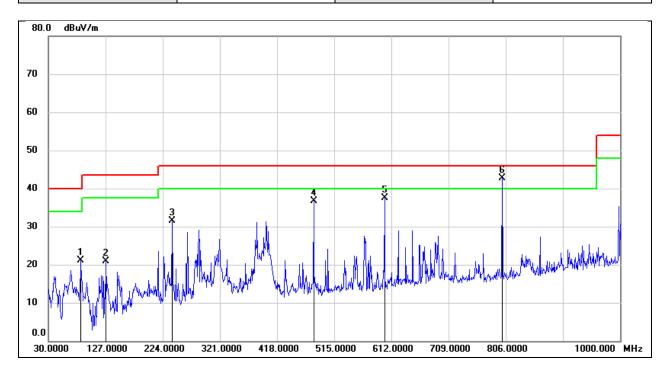
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18264.000	49.94	-5.53	44.41	74.00	-29.59	peak
2	20240.000	50.32	-5.61	44.71	74.00	-29.29	peak
3	21008.000	49.82	-4.88	44.94	74.00	-29.06	peak
4	23200.000	49.03	-3.38	45.65	74.00	-28.35	peak
5	24568.000	47.60	-2.33	45.27	74.00	-28.73	peak
6	25832.000	46.26	-0.76	45.50	74.00	-28.50	peak



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8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	LE 1M	Channel:	2441 MHz
Polarity:	Horizontal	Test Voltage:	DC 12 V

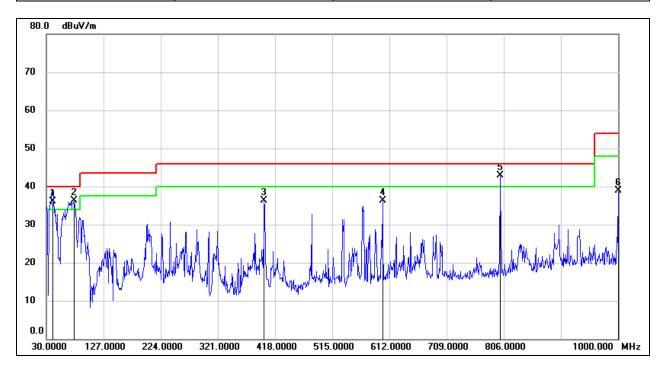


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	85.2900	42.75	-21.69	21.06	40.00	-18.94	QP
2	127.9700	40.26	-19.45	20.81	43.50	-22.69	QP
3	240.4900	50.77	-19.17	31.60	46.00	-14.40	QP
4	480.0800	48.52	-11.79	36.73	46.00	-9.27	QP
5	600.3600	47.02	-9.54	37.48	46.00	-8.52	QP
6	800.1800	49.94	-7.33	42.61	46.00	-3.39	QP



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Test Mode:	LE 1M	Channel:	2441 MHz
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.6699	56.17	-20.05	36.12	40.00	-3.88	QP
2	76.5600	57.28	-21.07	36.21	40.00	-3.79	QP
3	399.5700	49.76	-13.37	36.39	46.00	-9.61	QP
4	600.3600	45.77	-9.54	36.23	46.00	-9.77	QP
5	800.1800	50.27	-7.33	42.94	46.00	-3.06	QP
6	1000.0000	43.10	-4.15	38.95	54.00	-15.05	QP



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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass



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10. TEST DATA

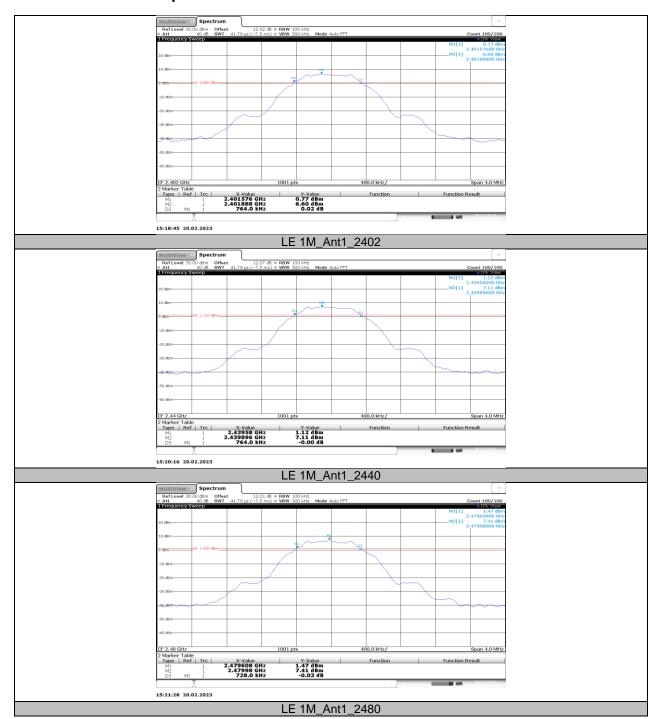
10.1. APPENDIX A: DTS BANDWIDTH

10.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.76	2401.58	2402.34	0.5	PASS
LE 1M	Ant1	2440	0.76	2439.58	2440.34	0.5	PASS
		2480	0.73	2479.61	2480.34	0.5	PASS



10.1.2. Test Graphs





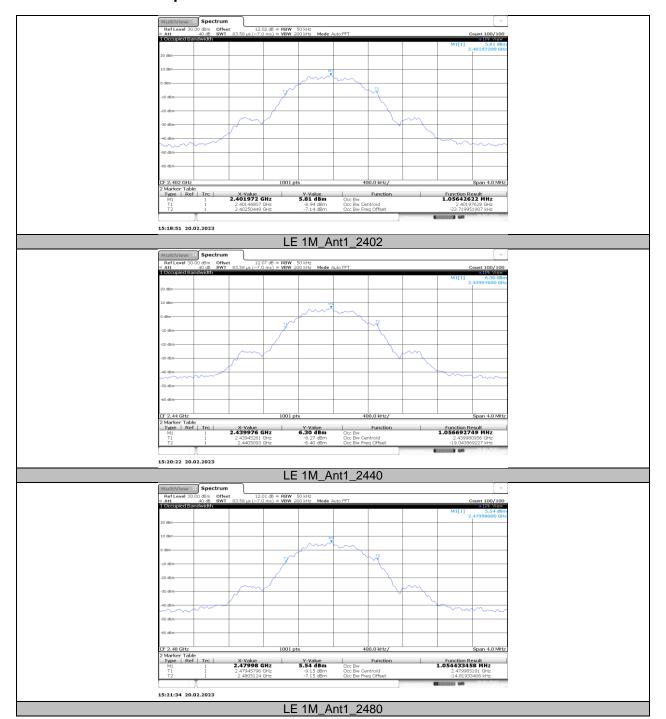
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10.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH 10.2.1. Test Result

Test Mode	Antenna	Channel OCB [MHz]		FL[MHz]	FH[MHz]	Verdict
LE 1M Ant1		2402	1.056	2401.4481	2402.5045	PASS
	Ant1	2440	1.057	2439.4526	2440.5093	PASS
	74161	2480	1.054	2479.4580	2480.5124	PASS



10.2.2. Test Graphs





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10.3. APPENDIX C: MAXIMUM PEAK CONDUCTED OUTPUT POWER 10.3.1. Test Result

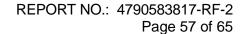
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	8.37	≤30	PASS
LE 1M	Ant1	2440	8.81	≤30	PASS
		2480	8.20	≤30	PASS



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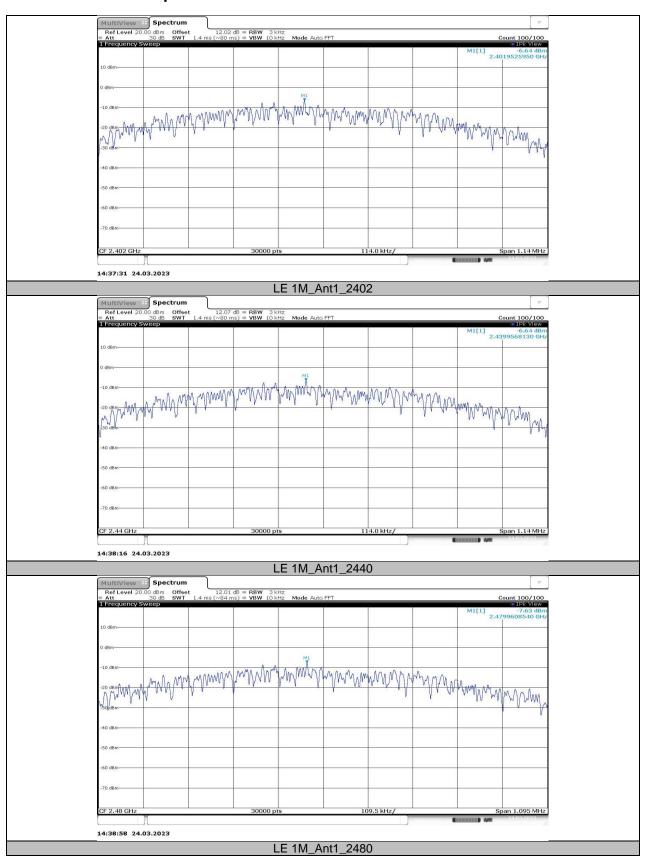
10.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY 10.4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2402	-6.64	≤8.00	PASS
LE 1M	Ant1	2440	-6.64	≤8.00	PASS
		2480	-7.63	≤8.00	PASS





10.4.2. Test Graphs





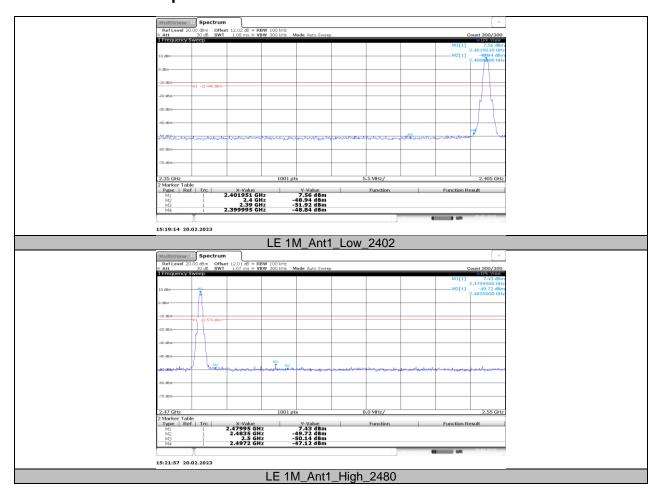
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10.5. APPENDIX E: BAND EDGE MEASUREMENTS 10.5.1. Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
LE 1M Ant1	A mat 1	Low	2402	7.56	-48.84	≤-12.44	PASS
	Anti	High	2480	7.43	-47.12	≤-12.57	PASS



10.5.2. Test Graphs





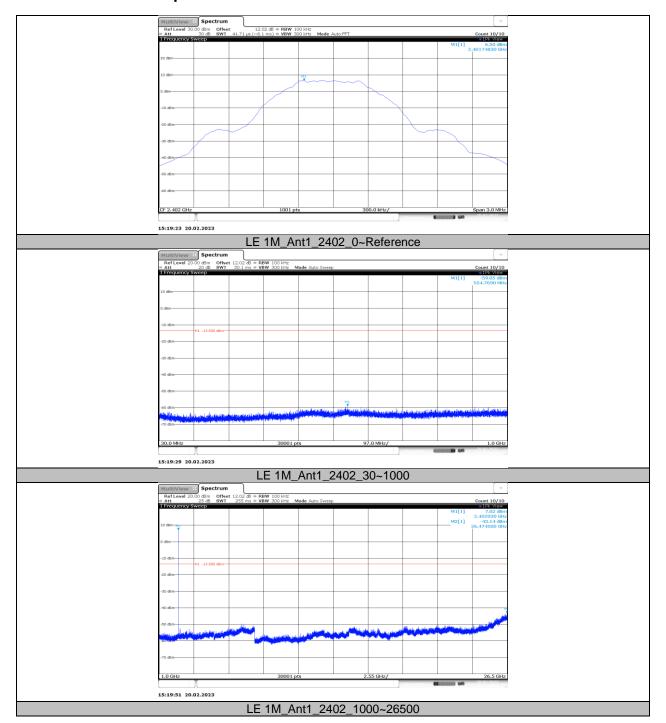
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10.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION 10.6.1. Test Result

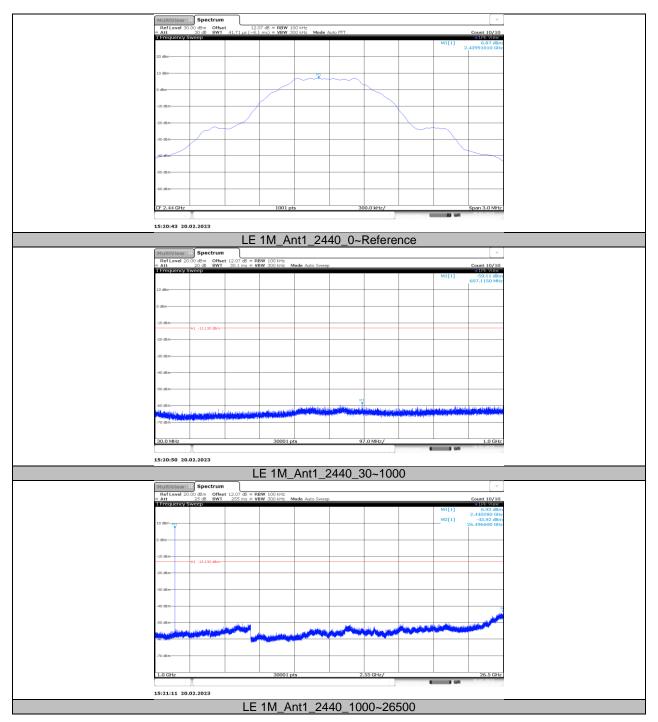
Test Mode	Antenna	Channel	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
			Reference	6.50		PASS
		2402	30~1000	-59.05	≤-13.5	PASS
LE 1M Ar			1000~26500	-43.14	≤-13.5	PASS
	Ant1	2440	Reference	6.87		PASS
			30~1000	-59.11	≤-13.13	PASS
			1000~26500	-43.92	≤-13.13	PASS
			Reference	6.41		PASS
			30~1000	-59.26	≤-13.59	PASS
			1000~26500	-44.09	≤-13.59	PASS



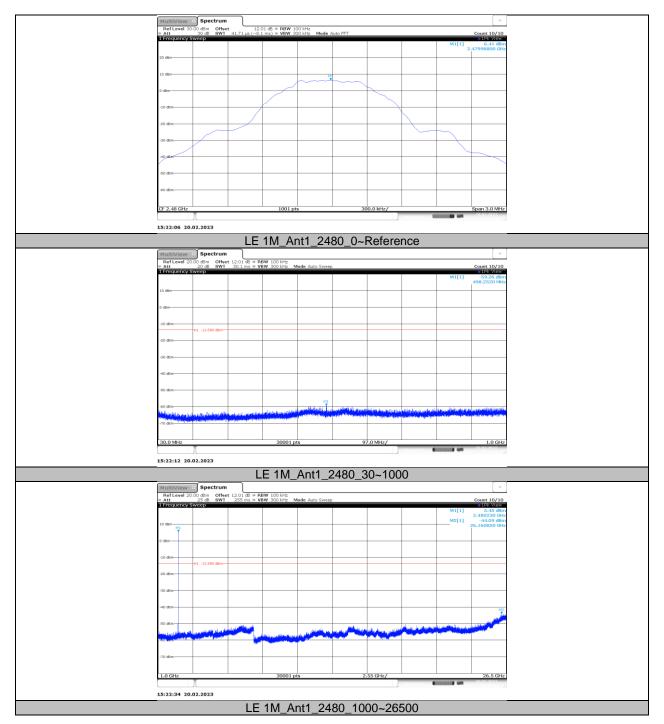
10.6.2. Test Graphs













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10.7. APPENDIX G: DUTY CYCLE 10.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
LE 1M	0.39	0.62	0.6290	62.90	2.01	2.56	3

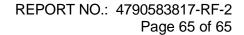
Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

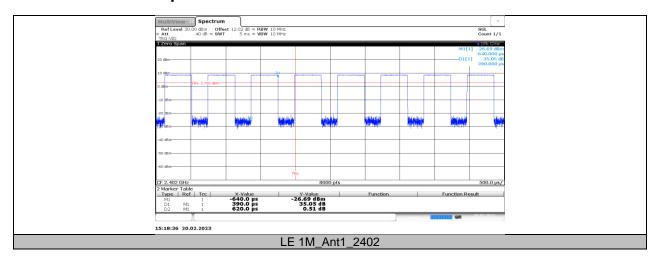
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.





10.7.2. Test Graphs



END OF REPORT