CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 ISSUE 2

CERTIFICATION TEST REPORT

For

IEEE 802.11a/b/g/n 2T2R USB Wi-Fi Module Integrated BT 2.1+EDR/4.2/5.0

MODEL NUMBER: SKO.W618U.1_638BUE

FCC ID: 2AR82-SKOW638U101

IC: 24728-SKOW638U101

REPORT NUMBER: 4789755222-1

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Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	01/11/2021	Initial Issue	

Summary of Test Results			
Clause	**Test Items**	**FCC/ISED Rules**	**Test Results**
1	6dB Bandwidth and 99% Occupied Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
2	Peak Conducted Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 5.4 (d)	Pass
3	Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d) RSS-247 Clause 5.5	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
6	Conducted Emission Test for AC Power Port	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
7	Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	Pass
Note: 1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China. 2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.			

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Guangzhou Shikun Electronics Co., Ltd
Address:	NO.6 Liankun Road,Huangpu District,Guangzhou,China

Manufacturer Information

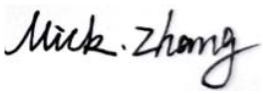
Company Name:	Guangzhou Shikun Electronics Co., Ltd
Address:	NO.6 Liankun Road,Huangpu District,Guangzhou,China

EUT Information

EUT Name:	IEEE 802.11a/b/g/n 2T2R USB Wi-Fi Module Integrated BT 2.1+EDR/4.2/5.0
Model:	SKO.W618U.1_638BUE
Sample Received Date:	December 14, 2020
Sample Status:	Normal
Sample ID:	3538000
Date of Tested:	December 15, 2020~ January 07, 2021

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 15 SUBPART C	PASS
ISED RSS-247 Issue 2	PASS
ISED RSS-GEN Issue 5	PASS

Prepared By:



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Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 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, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**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 Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. 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, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, 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.

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 recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	IEEE 802.11a/b/g/n 2T2R USB Wi-Fi Module Integrated BT 2.1+EDR/4.2/5.0	
Model	SKO.W618U.1_638BUE	
Technology	*Bluetooth* - Low Energy	
Transmit Frequency Range	2402 MHz ~ 2480 MHz	
Modulation	GFSK	
Data Rate	LE	1 Mbps
	LE 2M	2 Mbps
Supply Voltage	Rate Input:	DC 5V

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 PEAK OUTPUT POWER

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)	Maximum EIRP (dBm)
LE 1M	2402 ~ 2480	0-39[40]	7.26	12.19
LE 2M	2402 ~ 2480	0-39[40]	7.24	12.17

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
LE 2M	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 2402 ~ 2480MHz Band				
Test Software Version		WCN_Combo_Tool		
Test Mode	Transmit Antenna Number	Test Software Setting Value		
		CH 0	CH 19	CH 39
LE 1M	1	Default	Default	Default
LE 2M	1	Default	Default	Default

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna kind	Antenna model	Frequency (MHz)	Antenna Cable Length(mm)	Antenna Type	Antenna Gain (dBi)
1	2.00004829	2402-2480	230	PIFA Antenna	4.93
	2.00004838	2402-2480	405	PIFA Antenna	4.73
2	AG-041533-2120	2402-2480	255	PIFA Antenna	0.91
	AG-041533-2119	2402-2480	390	PIFA Antenna	0.71
3	W-M-D-B-N-0-0230	2402-2480	230	PIFA Antenna	4.70
	W-M-D-B-N-0-0390	2402-2480	390	PIFA Antenna	4.50

Note: The EUT has 3 kinds of antennas. For every kind antenna, they differ only in line length. We had Pre-Scan the EUT with all the antennas. For the Radiated Bandedge and Spurious Emission, the worst kind 2.00004829, AG-041533-2120 and W-M-D-B-N-0-0230 test data were report in this report. Other test items we use the worst kind 2.00004829 to test.

Test Mode	Transmit and Receive Mode	Description
LE 1M	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LE 2M	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note: 1. The value of the antenna gain was declared by customer.
2. The customer declared that BT&WLAN 2.4 GHz, BT& WLAN 5 GHz can't transmit simultaneously.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	E480	/
2	USB TO UART	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

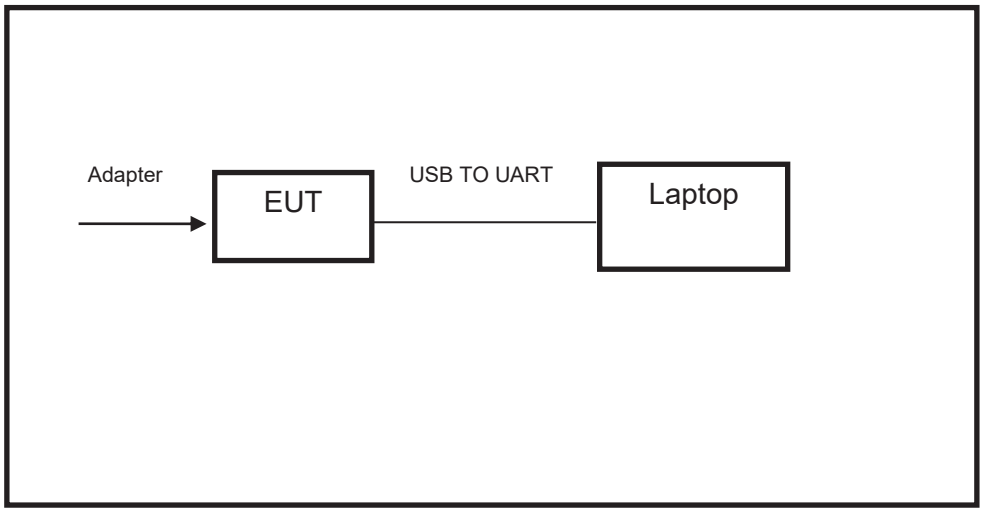
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	/	HKA02412020-3K	Input: AC 100~240V, 50/60Hz, 0.8A Output: DC 12V, 2A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



6. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Nov. 12, 2020	Nov. 11, 2021
Two-Line V-Network	R&S	ENV216	101983	Nov. 12, 2020	Nov. 11, 2021
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Nov. 12, 2020	Nov. 11, 2021
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Nov. 12, 2020	Nov. 11, 2021
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 11, 2018	Aug. 10, 2021
Preamplifier	HP	8447D	2944A09099	Nov. 12, 2020	Nov. 11, 2021
EMI Measurement Receiver	R&S	ESR26	101377	Nov. 12, 2020	Nov. 11, 2021
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Nov. 20, 2020	Nov. 19, 2021
Horn Antenna	Schwarzbeck	BBHA9170	#691	Aug. 11, 2018	Aug. 11, 2021
Preamplifier	TDK	PA-02-2	TRS-307-00003	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	TDK	PA-02-3	TRS-308-00002	Nov. 12, 2020	Nov. 11, 2021
Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17,2022
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Nov. 12, 2020	Nov. 11, 2021
Preamplifier	Mini-Circuits	ZX60-83LN-S+	SUP01201941	Nov. 20, 2020	Nov. 19, 2021
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Nov. 12, 2020	Nov. 11, 2021
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Other instruments					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Keysight	N9030A	MY55410512	Nov. 20, 2020	Nov. 19, 2021
Dual Channel Power Meter	Keysight	N1912A	MY55416024	Nov. 20, 2020	Nov. 19, 2021
Power Sensor	Keysight	USB Wideband Power Sensor	MY5100022	Nov. 20, 2020	Nov. 19, 2021

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

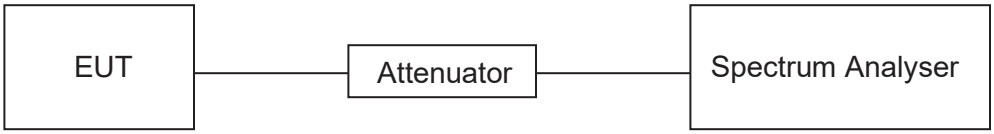
LIMITS

None; for reporting purposes only.

PROCEDURE

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

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7 °C	Relative Humidity	57.4 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to appendix G.

7.2. 6 dB DTS BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

CFR 47FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	None; 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.

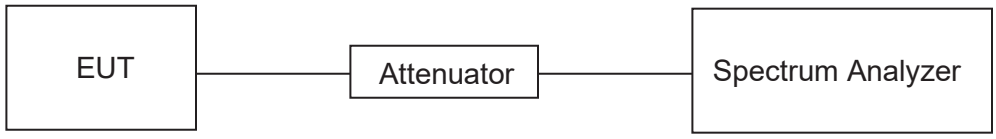
Connect the EUT to the spectrum analyser and use the following settings:

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 × RBW For 99 % Occupied Bandwidth: ≥3 × 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.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7 °C	Relative Humidity	57.4 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to appendix A & B.

7.3. CONDUCTED OUTPUT POWER

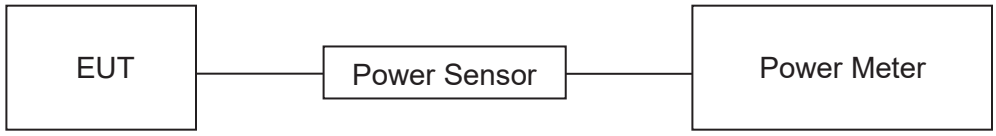
LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conducted 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	23.7 °C	Relative Humidity	57.4 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to appendix C.

7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

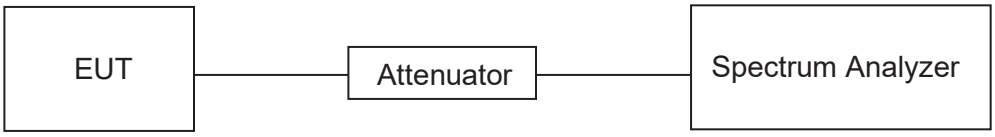
Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser 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	23.7 °C	Relative Humidity	57.4 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to appendix D.

7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	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 analyser 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.

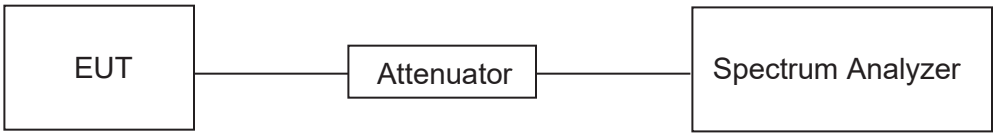
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

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.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.7 °C	Relative Humidity	57.4 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to appendix E & F.

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

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 (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (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
		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
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands[Note 1]		
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

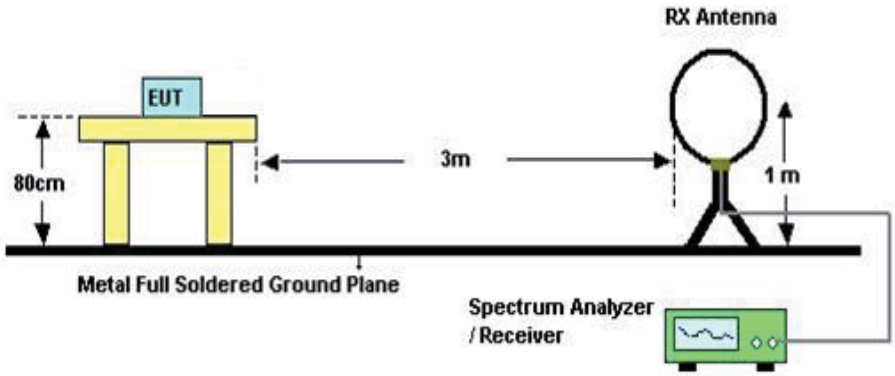
FCC Restricted bands of operation refer to FCC §15.205 (a):

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

TEST SETUP AND PROCEDURE

Below 30 MHz



The setting of the spectrum analyser

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
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11.

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.

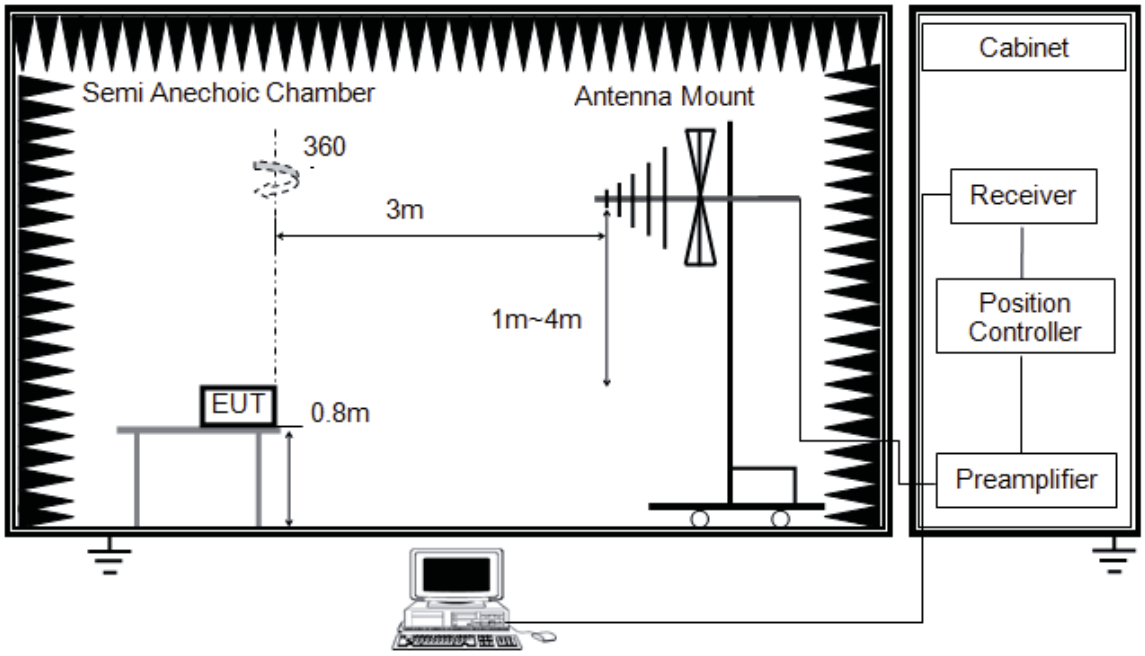
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

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 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 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.

Below 1 GHz and above 30 MHz



The setting of the spectrum analyser

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 11.11.

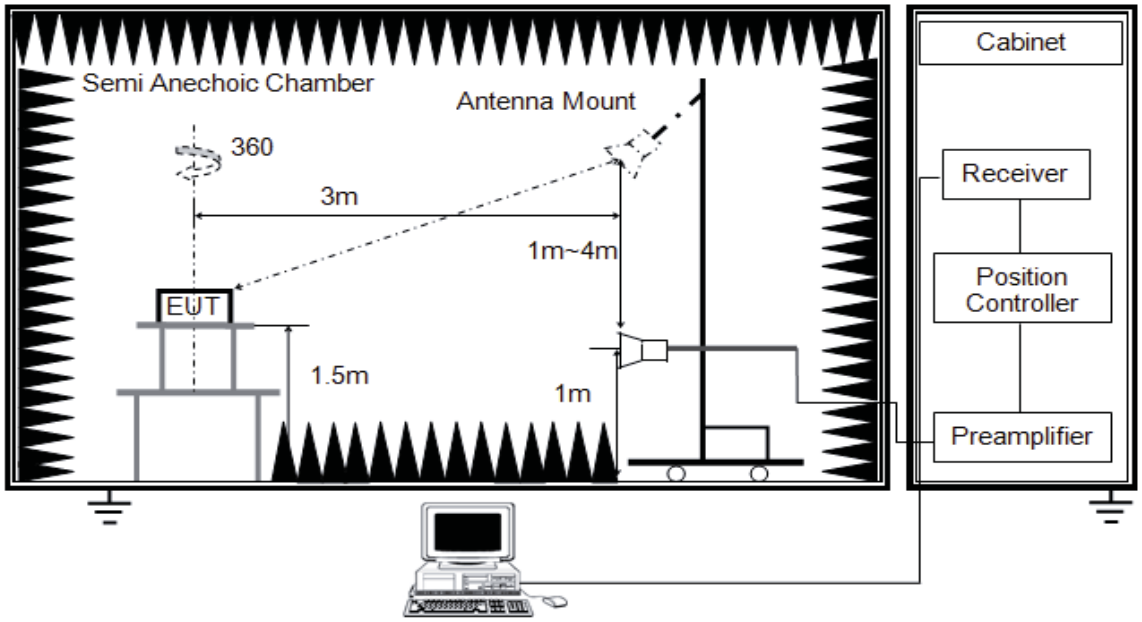
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations 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.

Above 1GHz



The setting of the spectrum analyser

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 11.11 and 11.12.

2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 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.

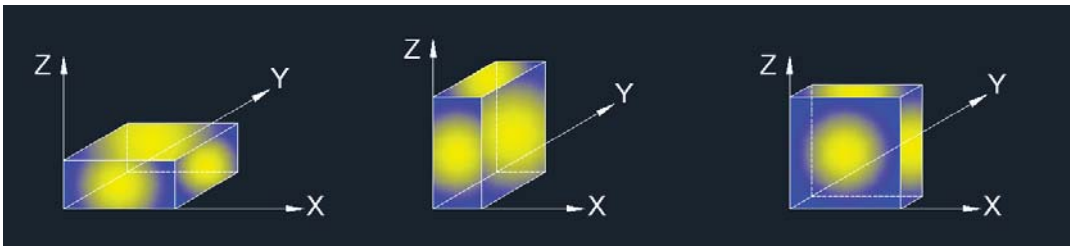
3. The EUT was placed on a turntable with 1.5 m above ground.

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 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

TEST ENVIRONMENT

Temperature	22.3 °C	Relative Humidity	62.3 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

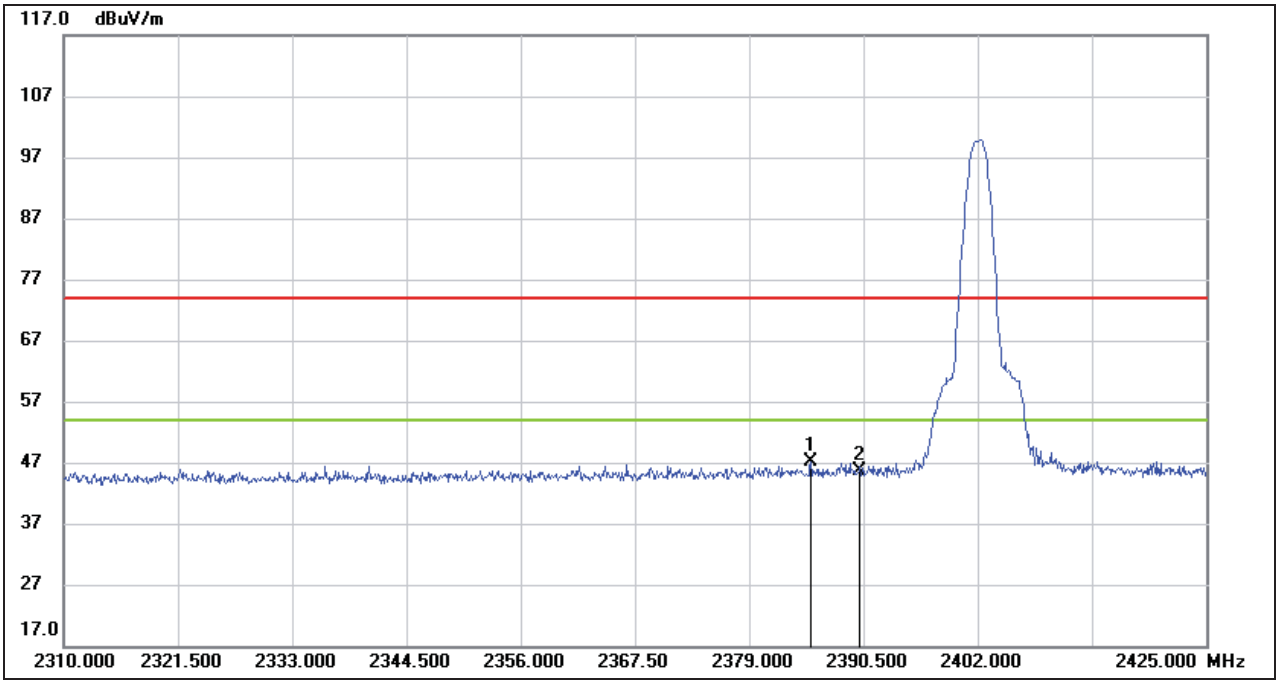
RESULTS

8.1. RESTRICTED BANDEDGE

8.1.1. LE 1M MODE

ANT 1-2.00004829

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

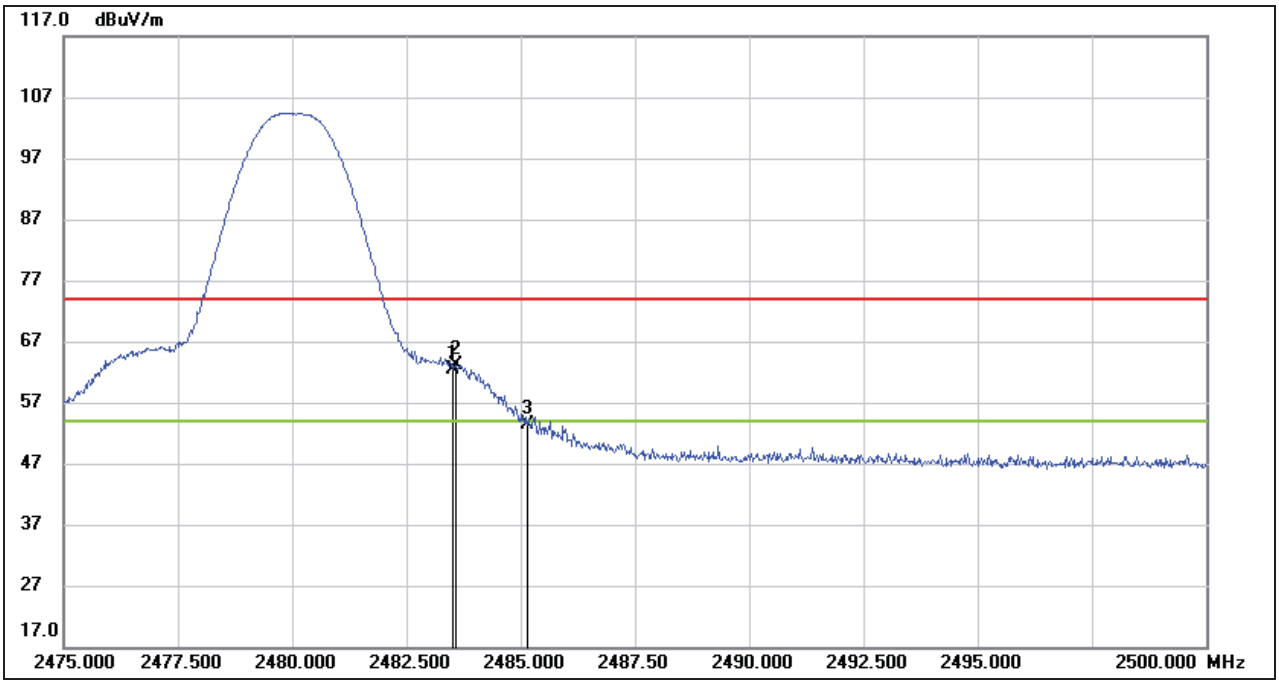


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.210	35.49	11.56	47.05	74.00	-26.95	peak
2	2390.000	34.04	11.59	45.63	74.00	-28.37	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

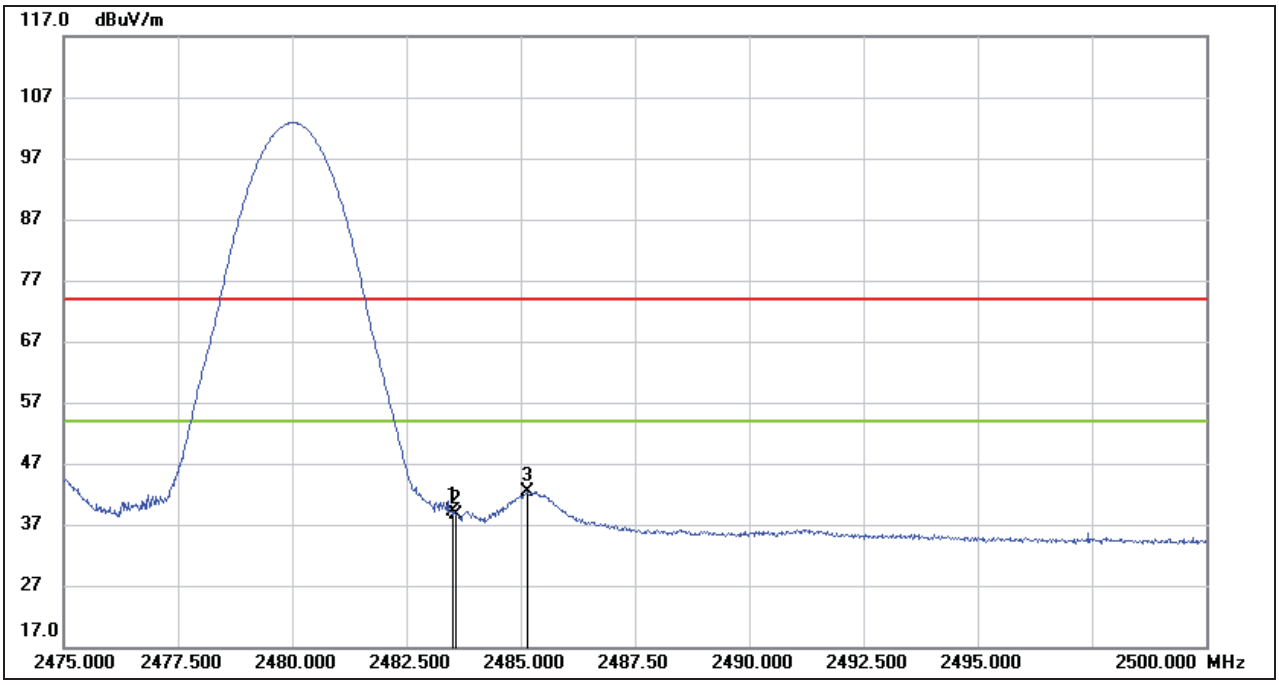


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.31	11.97	62.28	74.00	-11.72	peak
2	2483.575	51.23	11.97	63.20	74.00	-10.80	peak
3	2485.150	41.51	11.98	53.49	74.00	-20.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

AVG

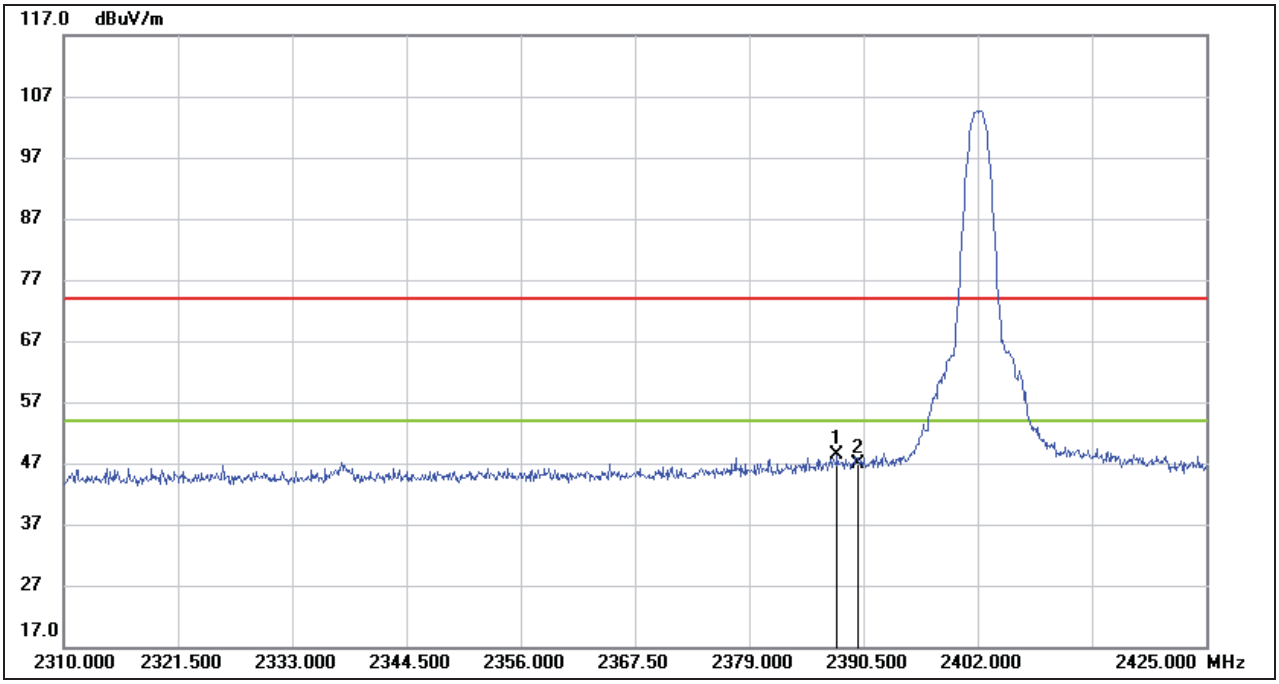


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	27.04	11.97	39.01	54.00	-14.99	AVG
2	2483.575	26.69	11.97	38.66	54.00	-15.34	AVG
3	2485.150	30.47	11.98	42.45	54.00	-11.55	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

ANT 2-AG-041533-2120

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

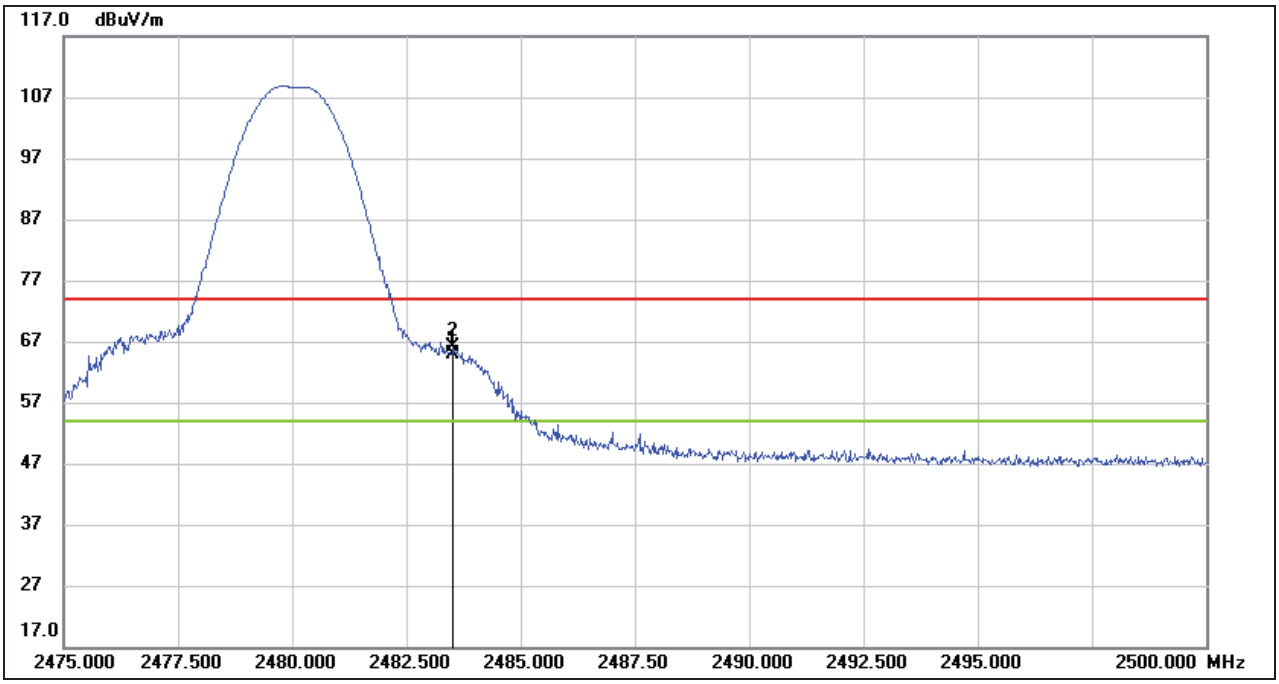


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.855	36.84	11.58	48.42	74.00	-25.58	peak
2	2390.000	35.41	11.59	47.00	74.00	-27.00	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

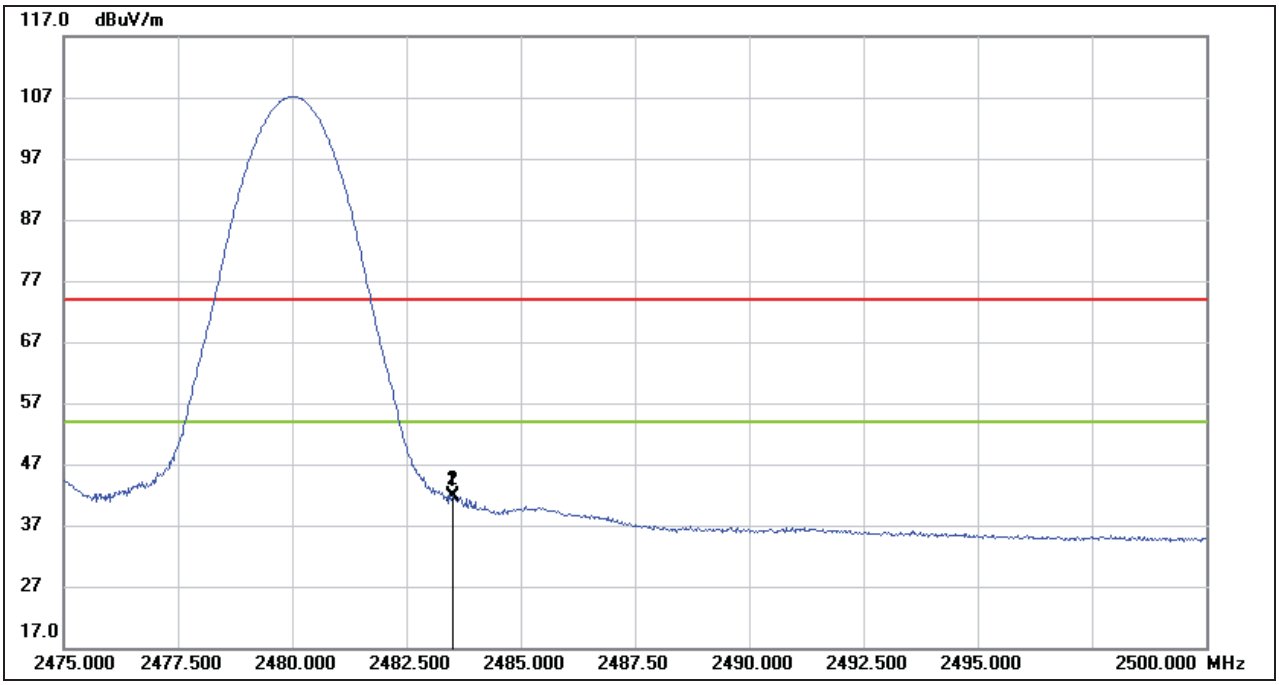
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	52.80	11.97	64.77	74.00	-9.23	peak
2	2483.525	54.06	11.97	66.03	74.00	-7.97	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)
AVG

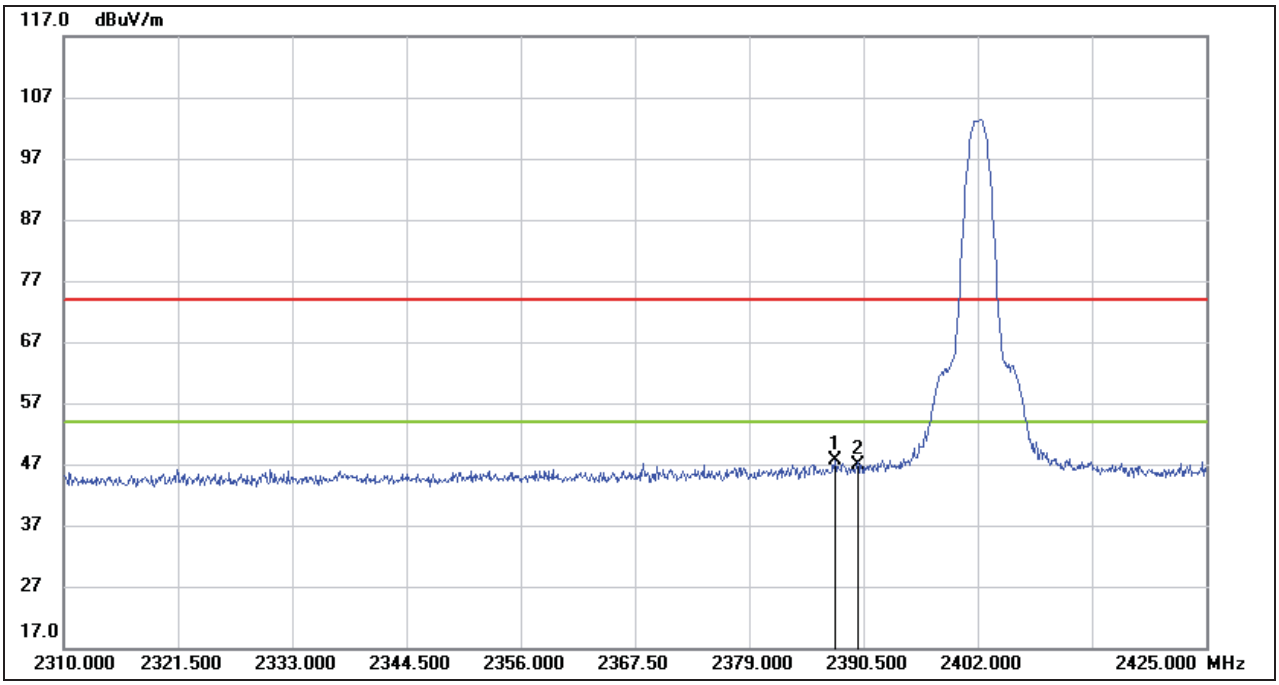


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	29.77	11.97	41.74	54.00	-12.26	AVG
2	2483.525	29.79	11.97	41.76	54.00	-12.24	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

ANT 3-W-M-D-B-N-0-0230

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

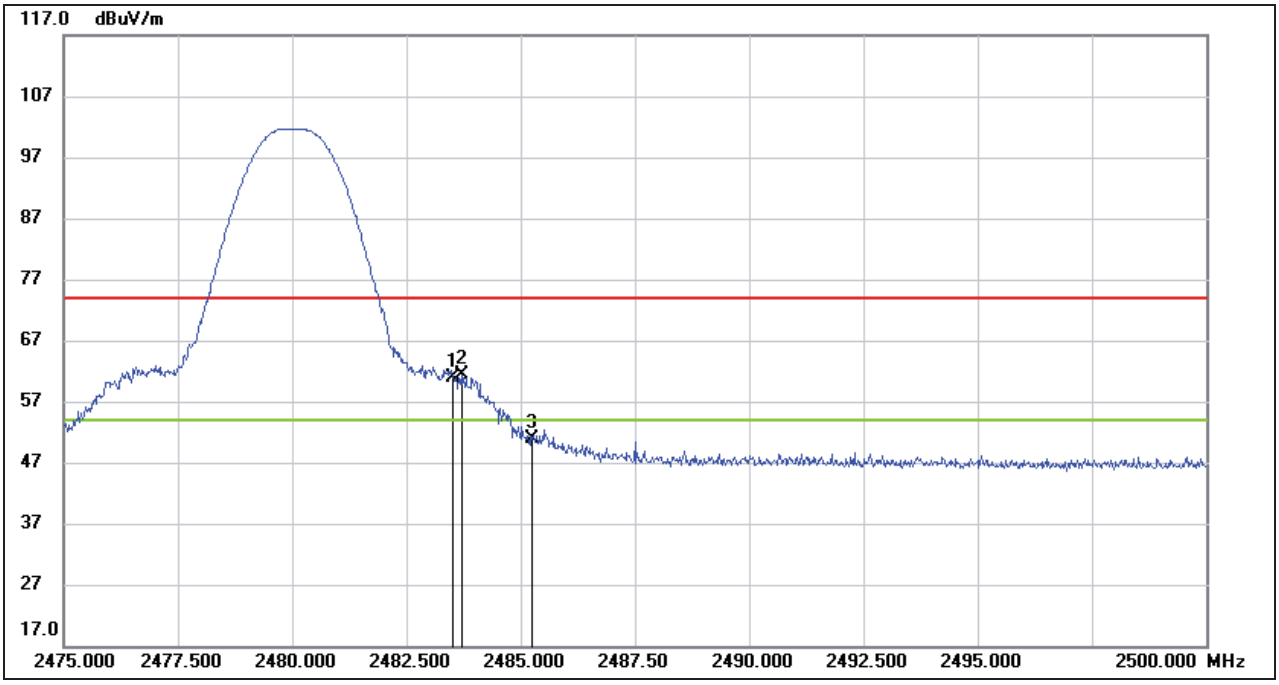


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.625	35.97	11.58	47.55	74.00	-26.45	peak
2	2390.000	35.27	11.59	46.86	74.00	-27.14	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

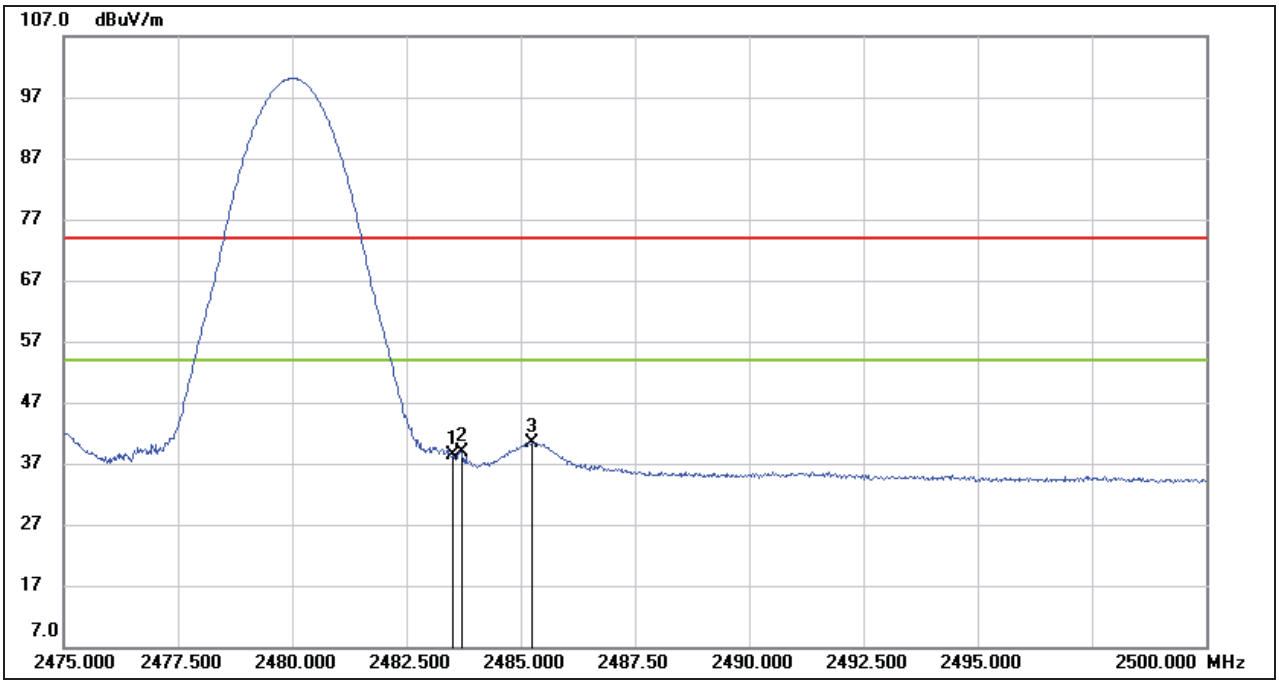
PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	48.91	11.97	60.88	74.00	-13.12	peak
2	2483.700	49.32	11.97	61.29	74.00	-12.71	peak
3	2485.250	38.88	11.98	50.86	74.00	-23.14	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)
AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	26.37	11.97	38.34	54.00	-15.66	AVG
2	2483.700	26.79	11.97	38.76	54.00	-15.24	AVG
3	2485.250	28.49	11.98	40.47	54.00	-13.53	AVG

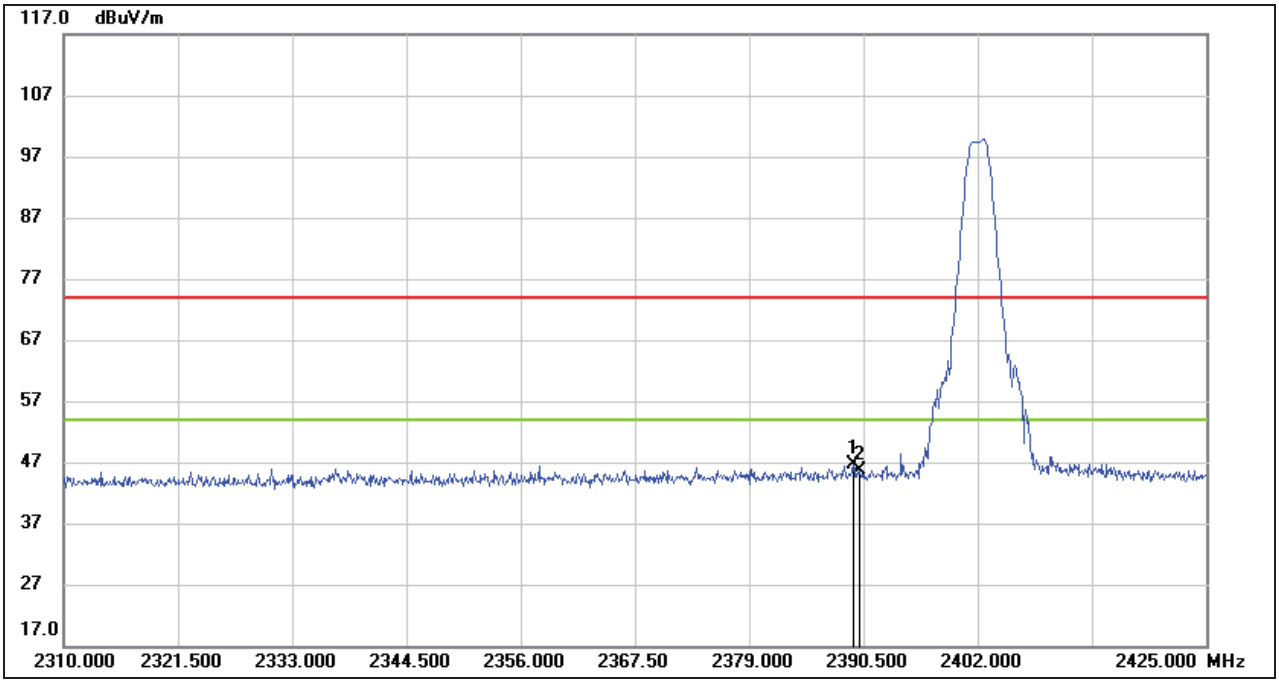
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

8.1.2. LE 2M MODE

ANT 1-2.00004829

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

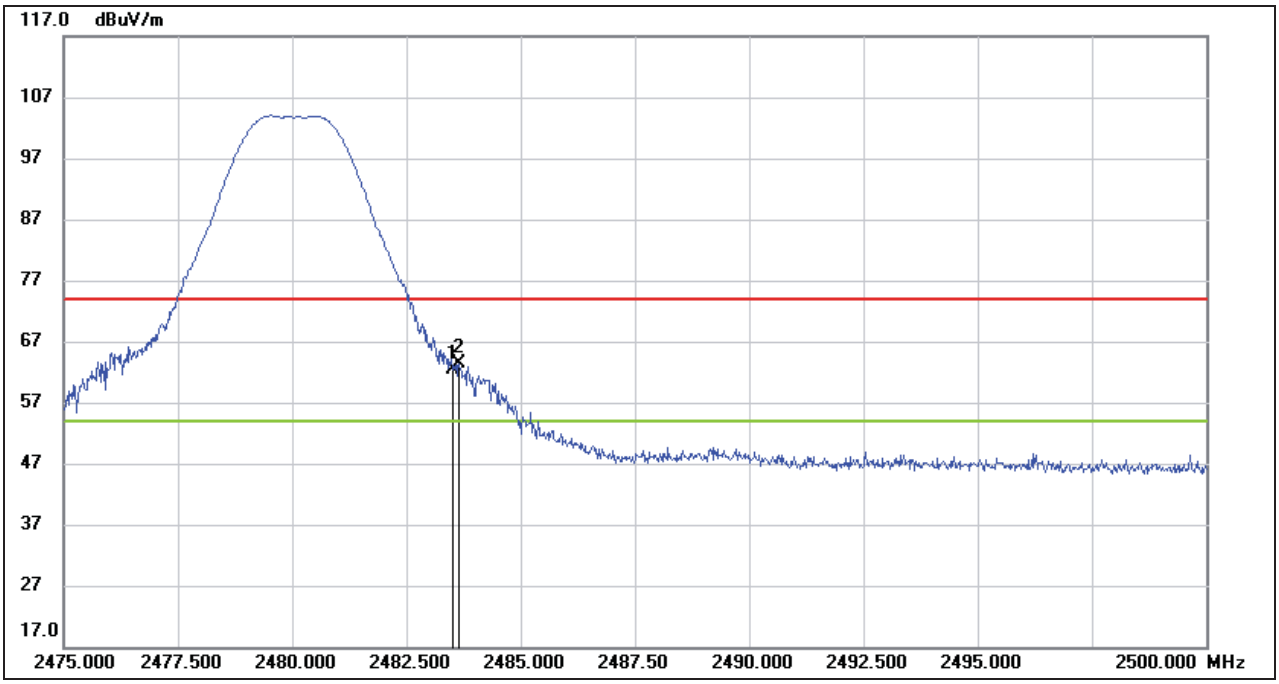


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.465	34.97	11.59	46.56	74.00	-27.44	peak
2	2390.000	34.10	11.59	45.69	74.00	-28.31	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

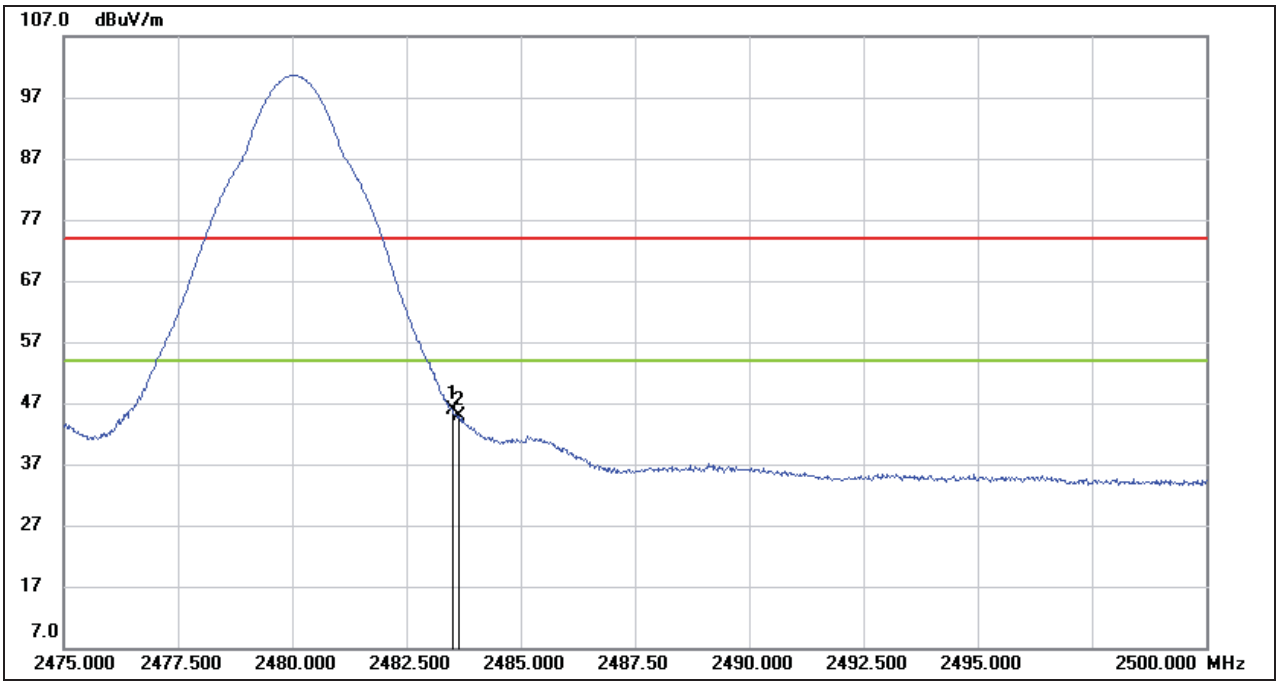


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.38	11.97	62.35	74.00	-11.65	peak
2	2483.650	51.37	11.97	63.34	74.00	-10.66	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

AVG

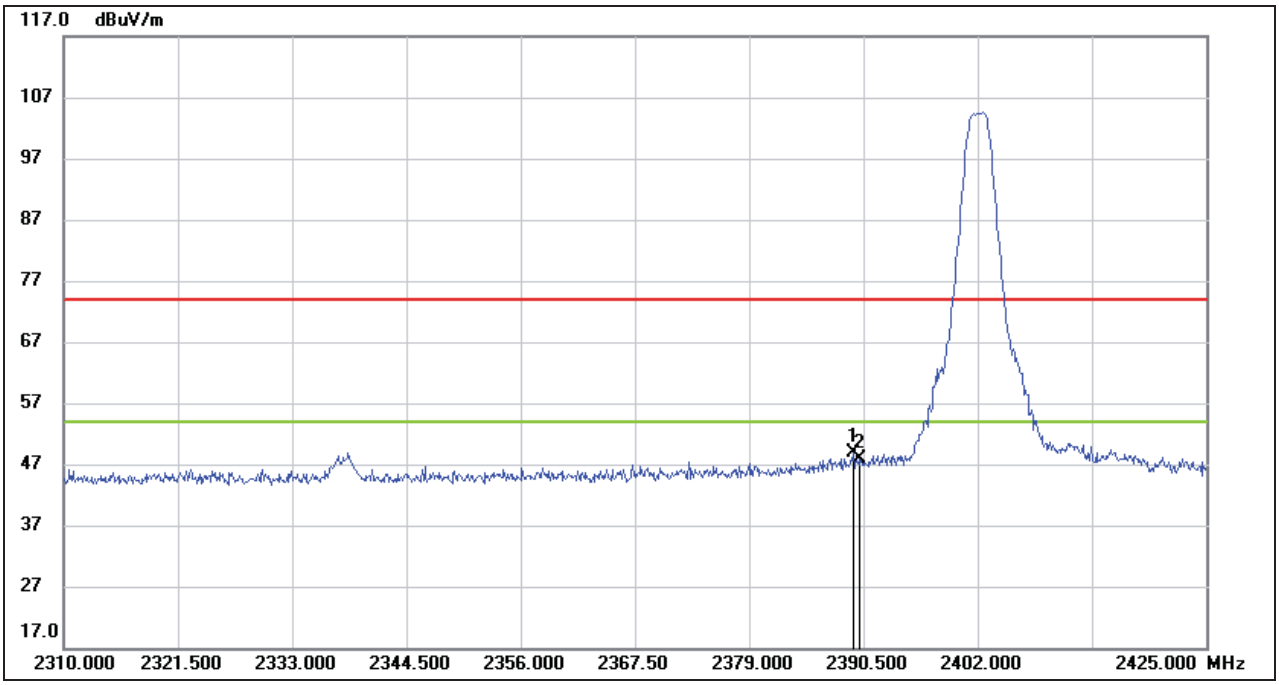


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	33.82	11.97	45.79	54.00	-8.21	AVG
2	2483.650	32.91	11.97	44.88	54.00	-9.12	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

ANT 2-AG-041533-2120

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

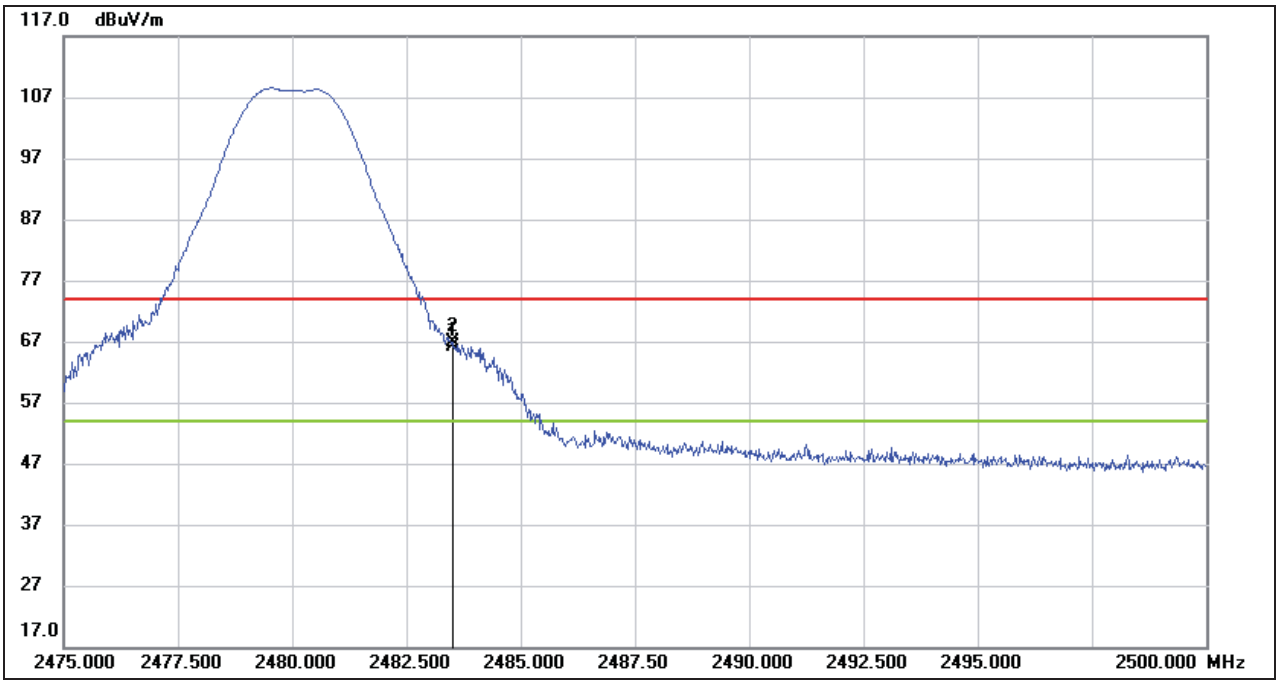


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.465	37.30	11.59	48.89	74.00	-25.11	peak
2	2390.000	36.17	11.59	47.76	74.00	-26.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

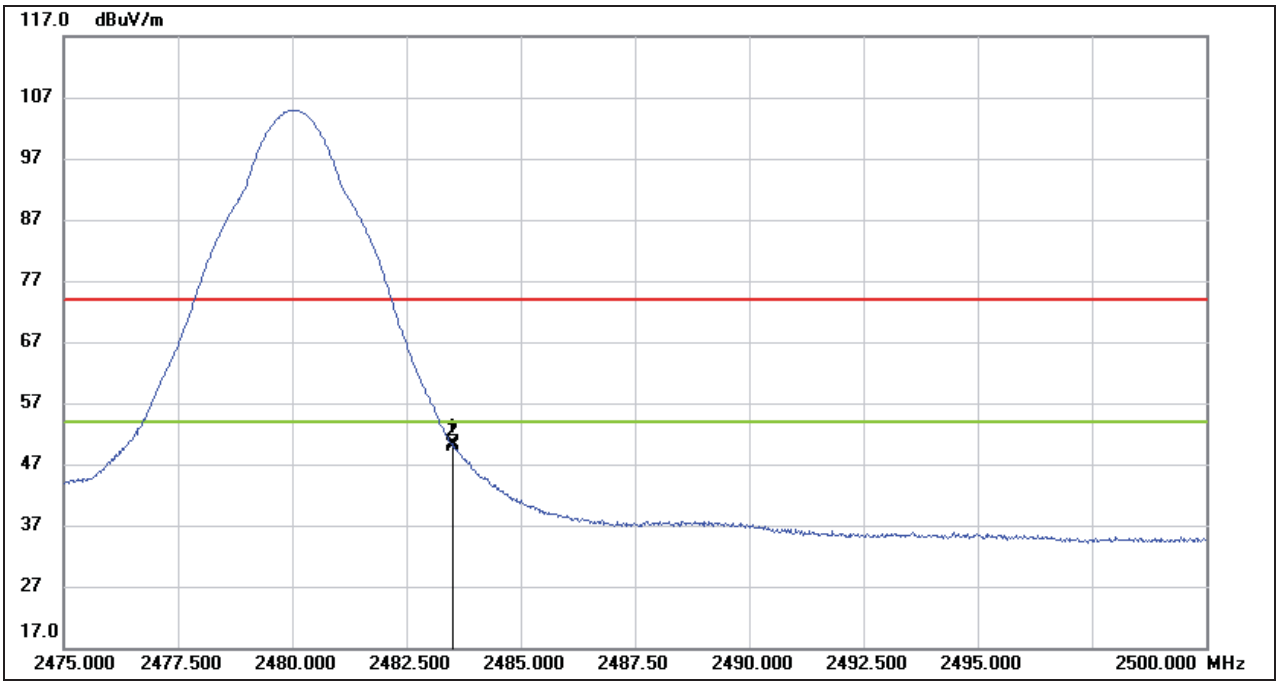


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	54.21	11.97	66.18	74.00	-7.82	peak
2	2483.525	54.94	11.97	66.91	74.00	-7.09	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

AVG

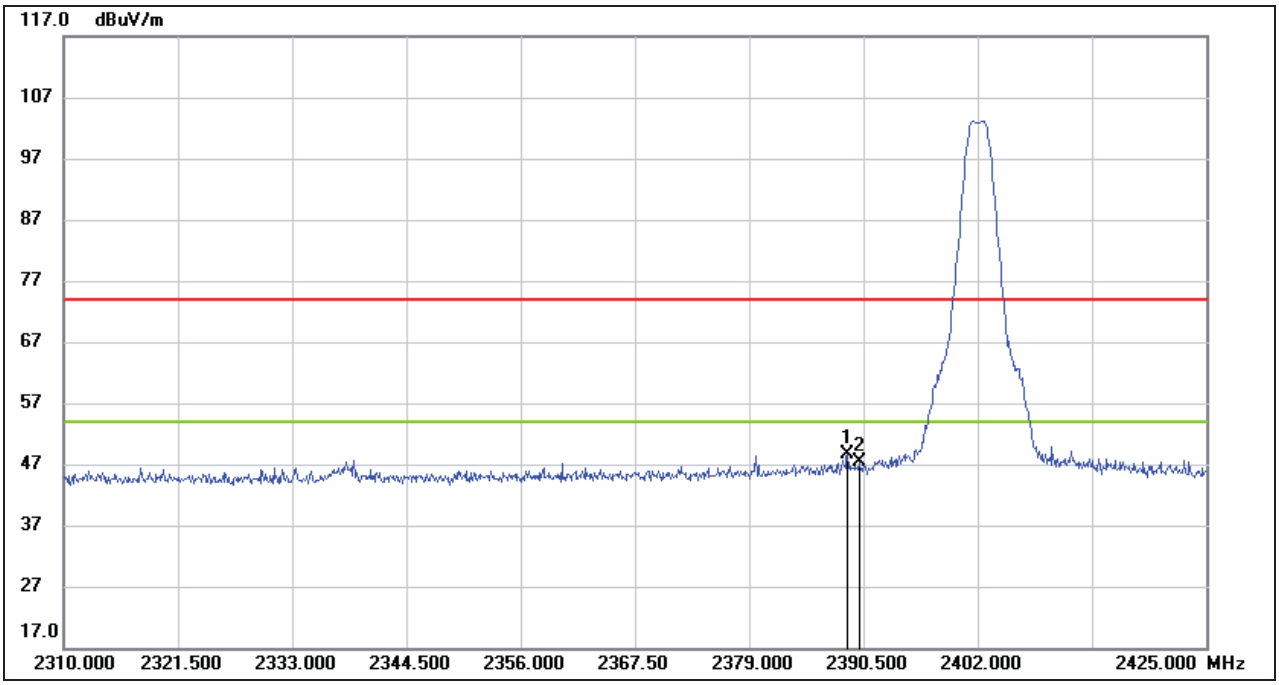


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.35	11.97	50.32	54.00	-3.68	AVG
2	2483.525	37.93	11.97	49.90	54.00	-4.10	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

ANT 3-W-M-D-B-N-0-0230

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

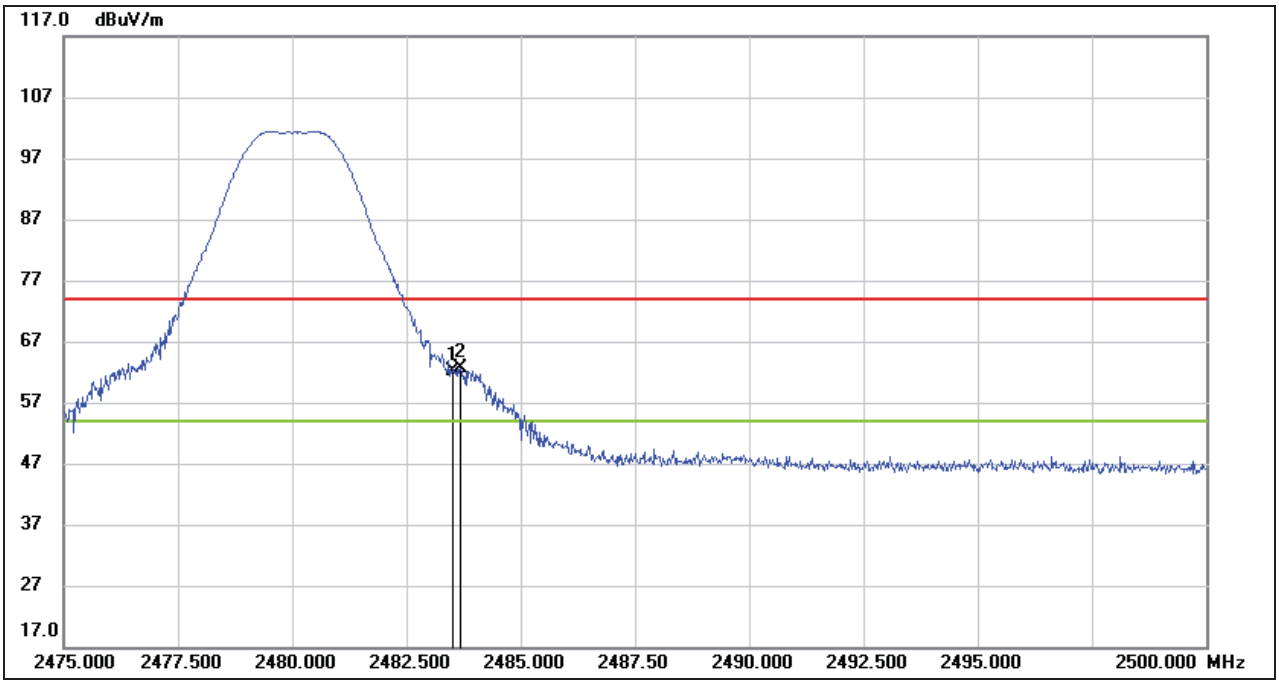


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.890	36.93	11.58	48.51	74.00	-25.49	peak
2	2390.000	35.79	11.59	47.38	74.00	-26.62	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

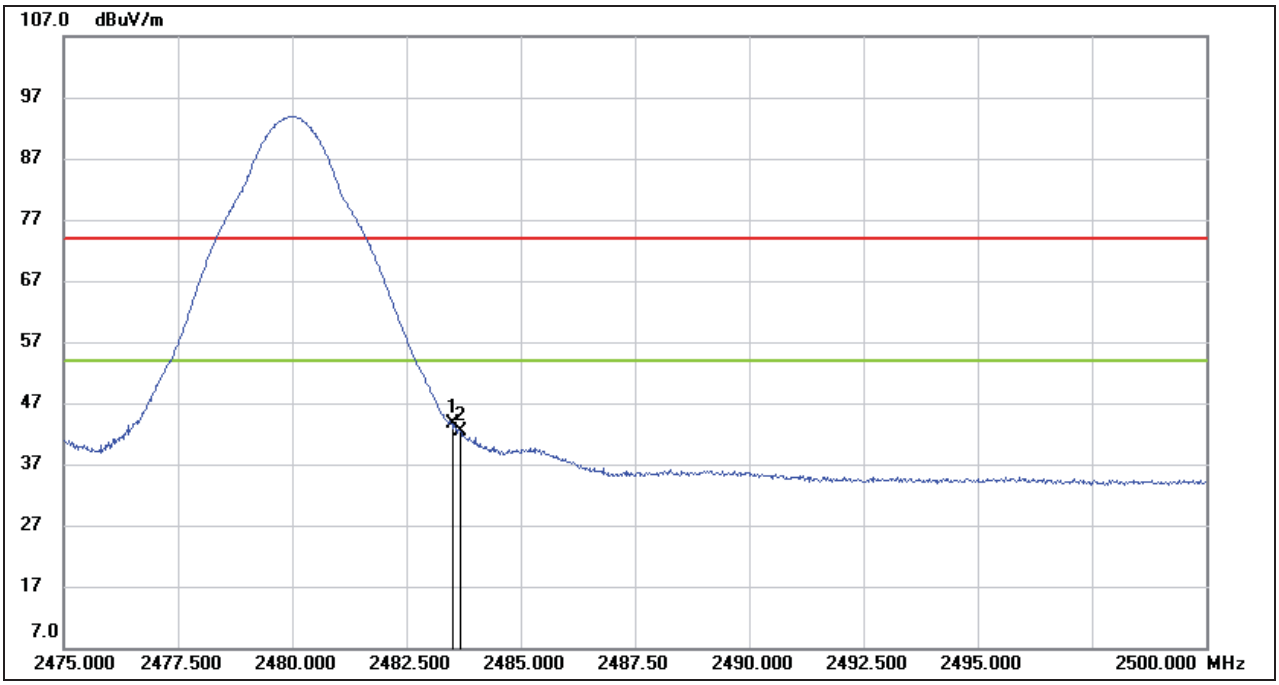


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	50.24	11.97	62.21	74.00	-11.79	peak
2	2483.675	50.70	11.97	62.67	74.00	-11.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.77	11.97	43.74	54.00	-10.26	AVG
2	2483.675	30.33	11.97	42.30	54.00	-11.70	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

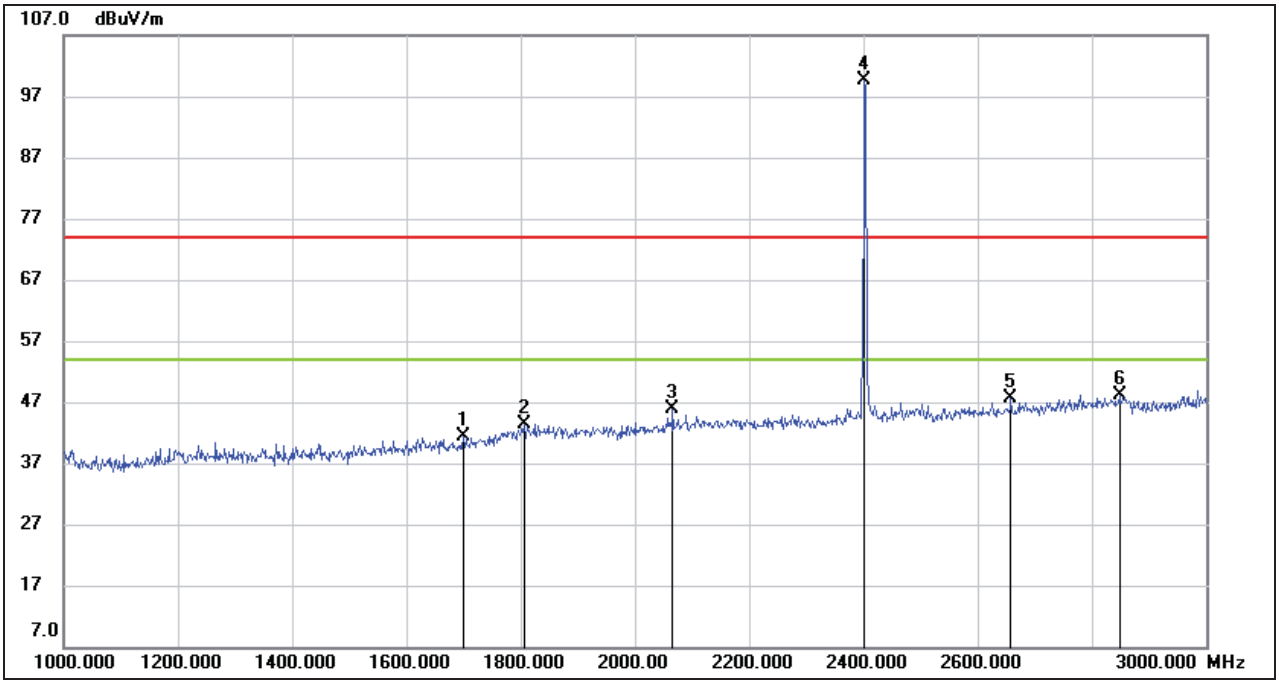
Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

8.2. SPURIOUS EMISSIONS (1 GHz ~ 3 GHz)

8.2.1. LE 1M MODE

ANT 1-2.00004829

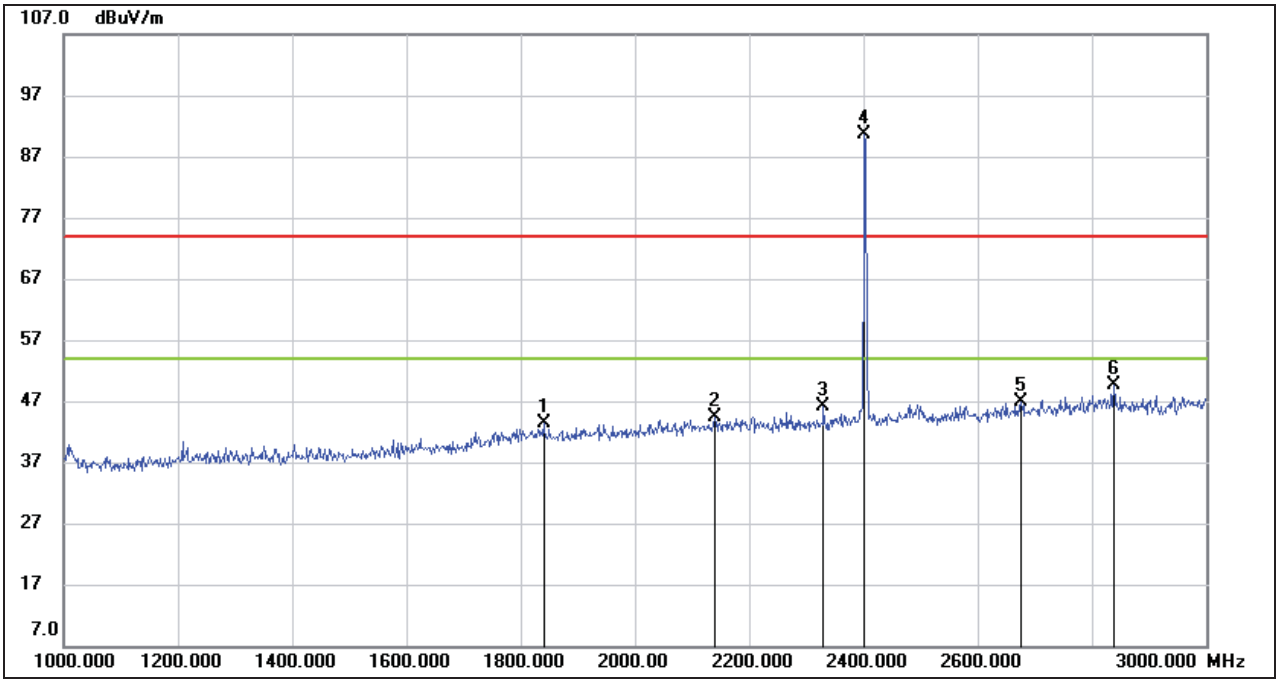
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1700.000	33.32	8.10	41.42	74.00	-32.58	peak
2	1806.000	33.63	9.65	43.28	74.00	-30.72	peak
3	2066.000	35.27	10.52	45.79	74.00	-28.21	peak
4	2402.000	87.97	11.66	99.63	/	/	fundamental
5	2658.000	35.43	12.28	47.71	74.00	-26.29	peak
6	2848.000	34.67	13.35	48.02	74.00	-25.98	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

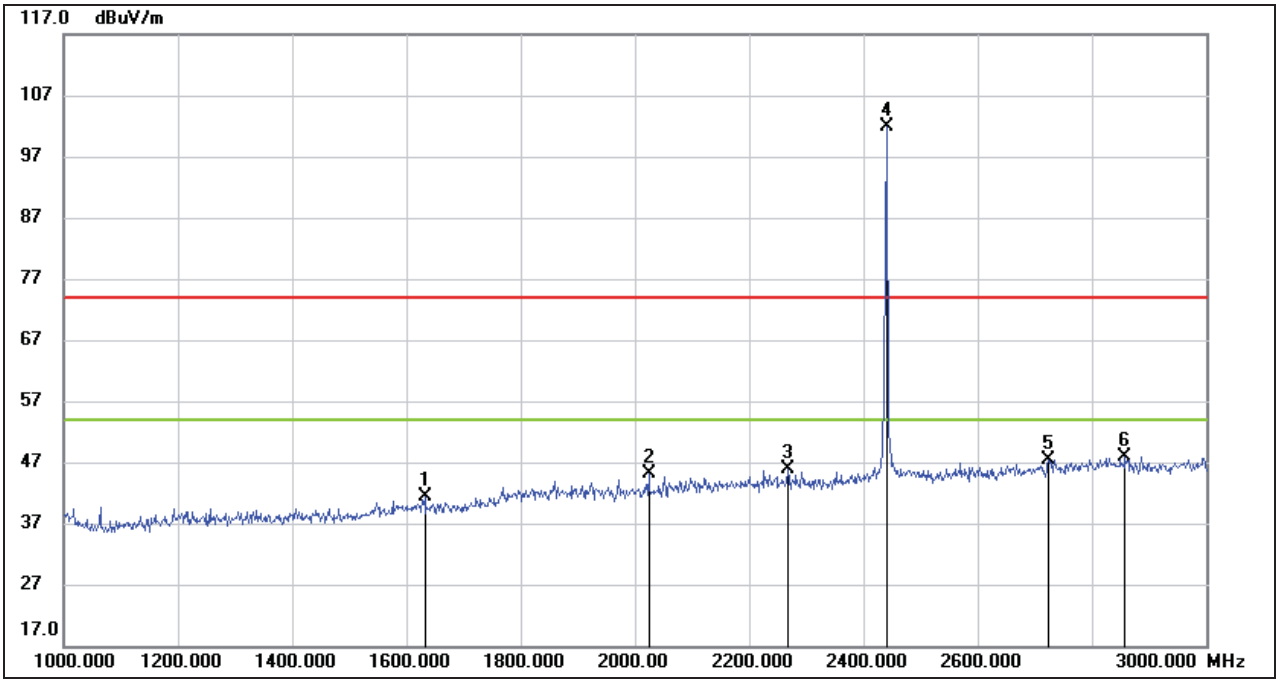
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1840.000	33.67	9.70	43.37	74.00	-30.63	peak
2	2140.000	33.44	10.87	44.31	74.00	-29.69	peak
3	2330.000	34.94	11.19	46.13	74.00	-27.87	peak
4	2402.000	79.06	11.66	90.72	/	/	fundamental
5	2676.000	34.57	12.37	46.94	74.00	-27.06	peak
6	2838.000	36.19	13.33	49.52	74.00	-24.48	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

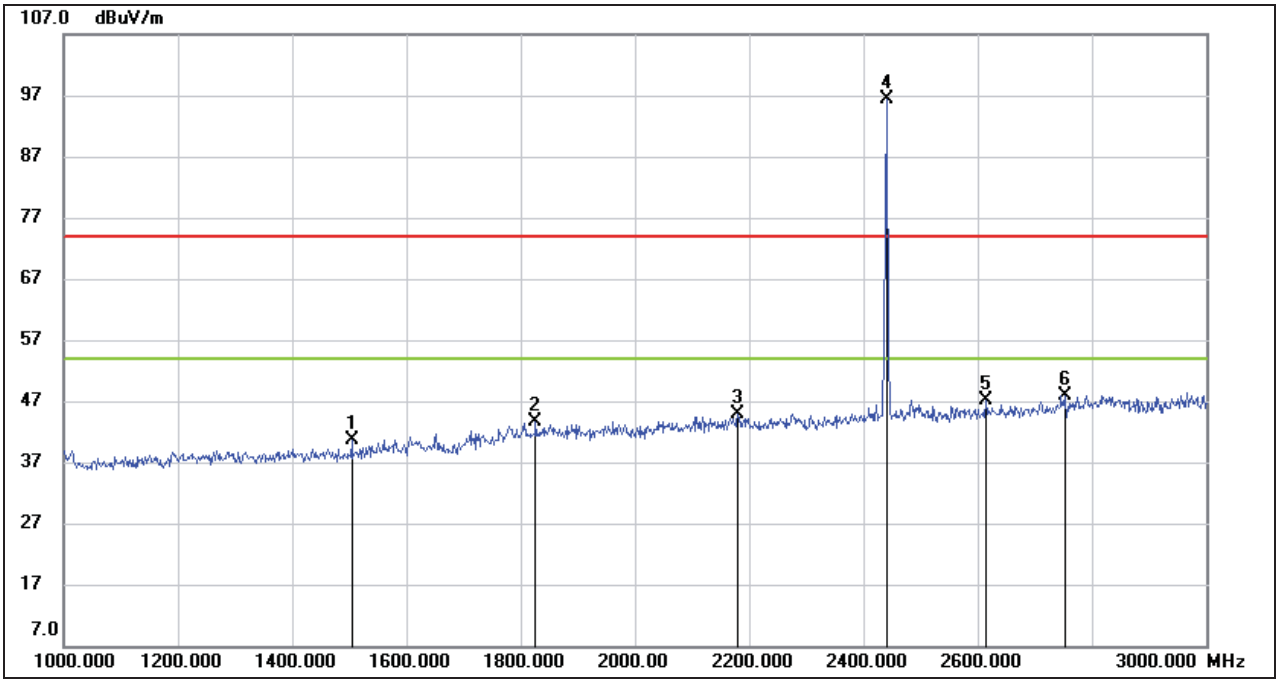
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1632.000	33.52	7.98	41.50	74.00	-32.50	peak
2	2024.000	34.98	10.21	45.19	74.00	-28.81	peak
3	2268.000	34.78	11.00	45.78	74.00	-28.22	peak
4	2440.000	90.08	11.80	101.88	/	/	fundamental
5	2724.000	34.70	12.69	47.39	74.00	-26.61	peak
6	2858.000	34.56	13.37	47.93	74.00	-26.07	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

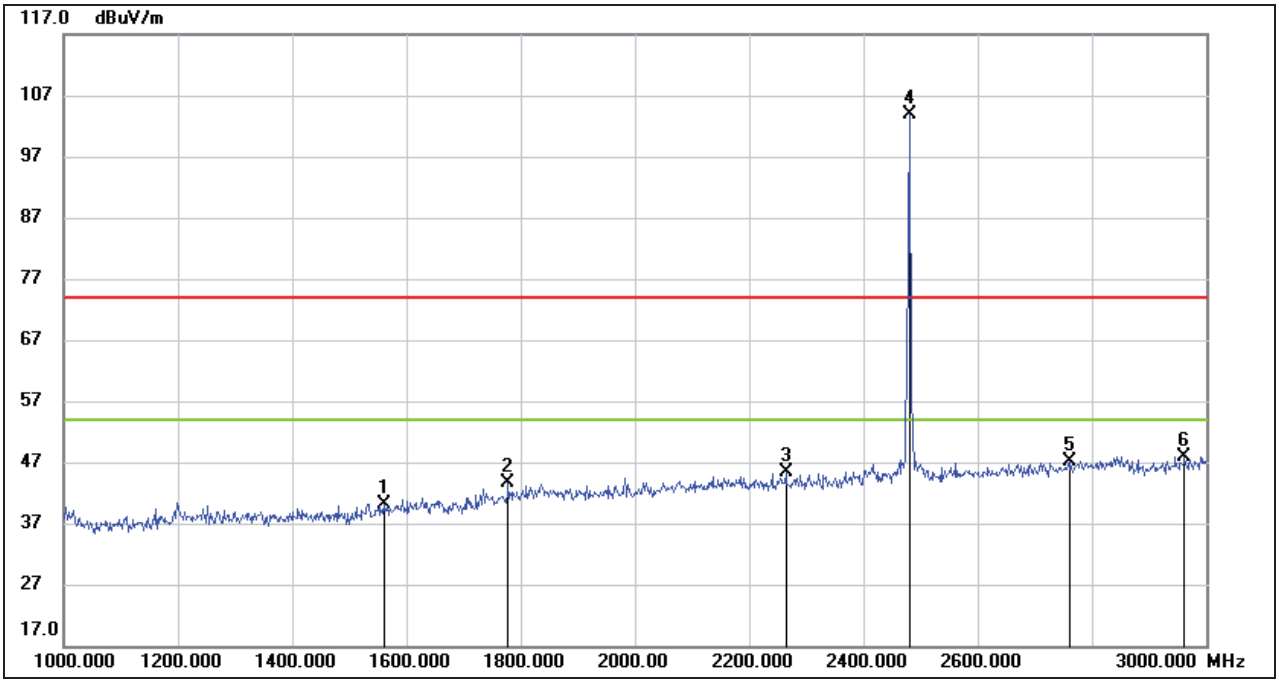
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1504.000	33.70	6.98	40.68	74.00	-33.32	peak
2	1826.000	33.97	9.69	43.66	74.00	-30.34	peak
3	2180.000	33.87	10.97	44.84	74.00	-29.16	peak
4	2440.000	84.50	11.80	96.30	/	/	fundamental
5	2614.000	35.10	12.04	47.14	74.00	-26.86	peak
6	2752.000	35.05	12.89	47.94	74.00	-26.06	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

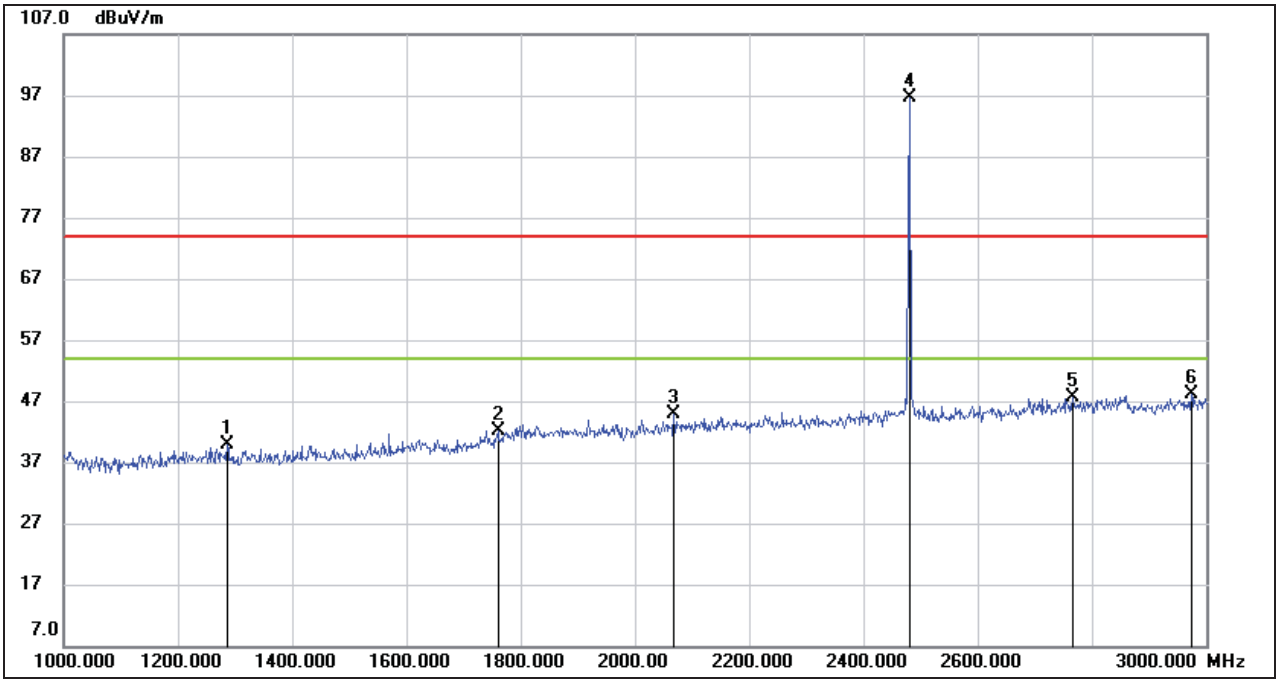
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1560.000	32.68	7.53	40.21	74.00	-33.79	peak
2	1778.000	34.25	9.31	43.56	74.00	-30.44	peak
3	2264.000	34.42	11.01	45.43	74.00	-28.57	peak
4	2480.000	92.02	11.95	103.97	/	/	fundamental
5	2760.000	34.13	12.95	47.08	74.00	-26.92	peak
6	2962.000	34.06	13.85	47.91	74.00	-26.09	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1286.000	33.24	6.64	39.88	74.00	-34.12	peak
2	1760.000	33.20	9.03	42.23	74.00	-31.77	peak
3	2068.000	34.38	10.54	44.92	74.00	-29.08	peak
4	2480.000	84.76	11.95	96.71	/	/	fundamental
5	2766.000	34.66	12.99	47.65	74.00	-26.35	peak
6	2974.000	34.21	13.93	48.14	74.00	-25.86	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

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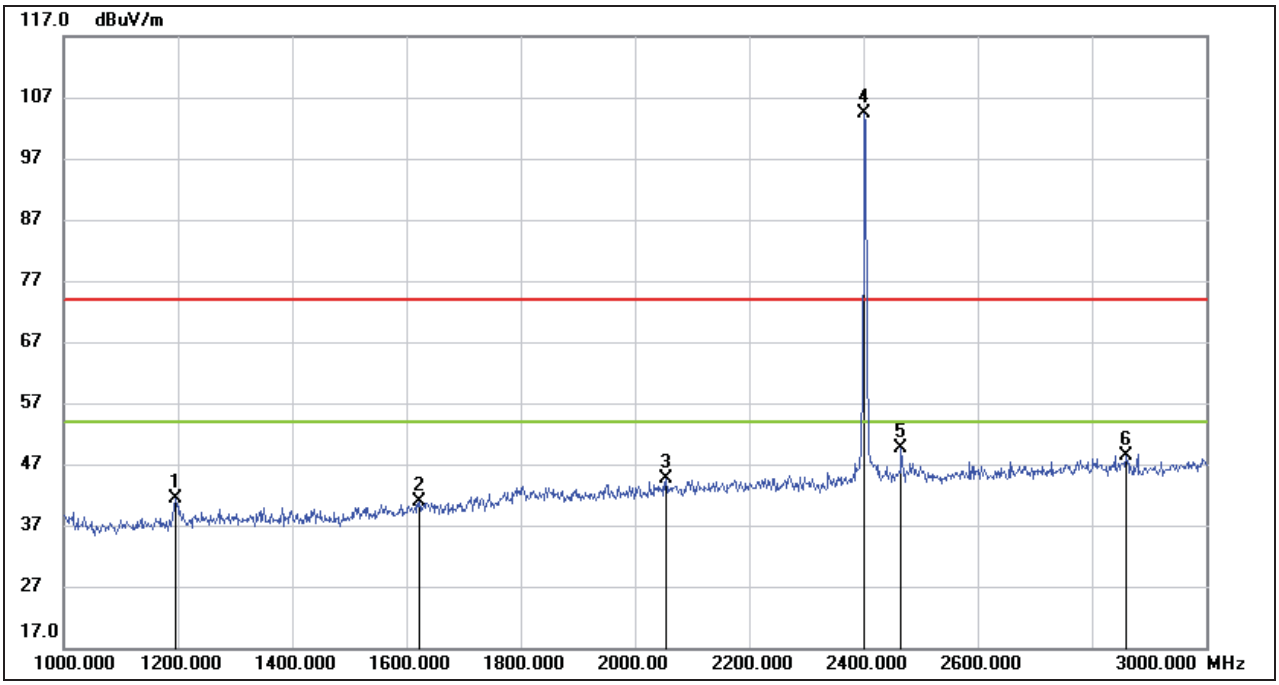
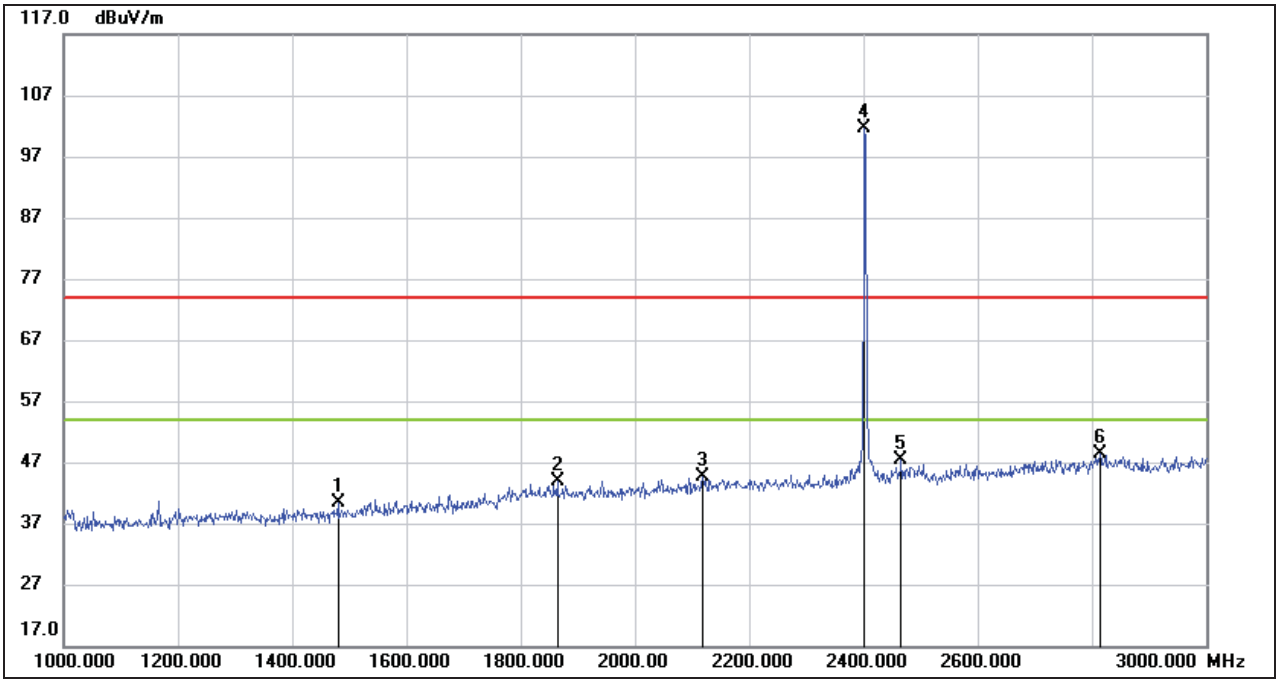
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1196.000	34.89	6.45	41.34	74.00	-32.66	peak
2	1622.000	32.84	7.95	40.79	74.00	-33.21	peak
3	2054.000	34.07	10.44	44.51	74.00	-29.49	peak
4	2402.000	92.76	11.66	104.42	/	/	fundamental
5	2466.000	37.69	11.91	49.60	74.00	-24.40	peak
6	2860.000	35.08	13.39	48.47	74.00	-25.53	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

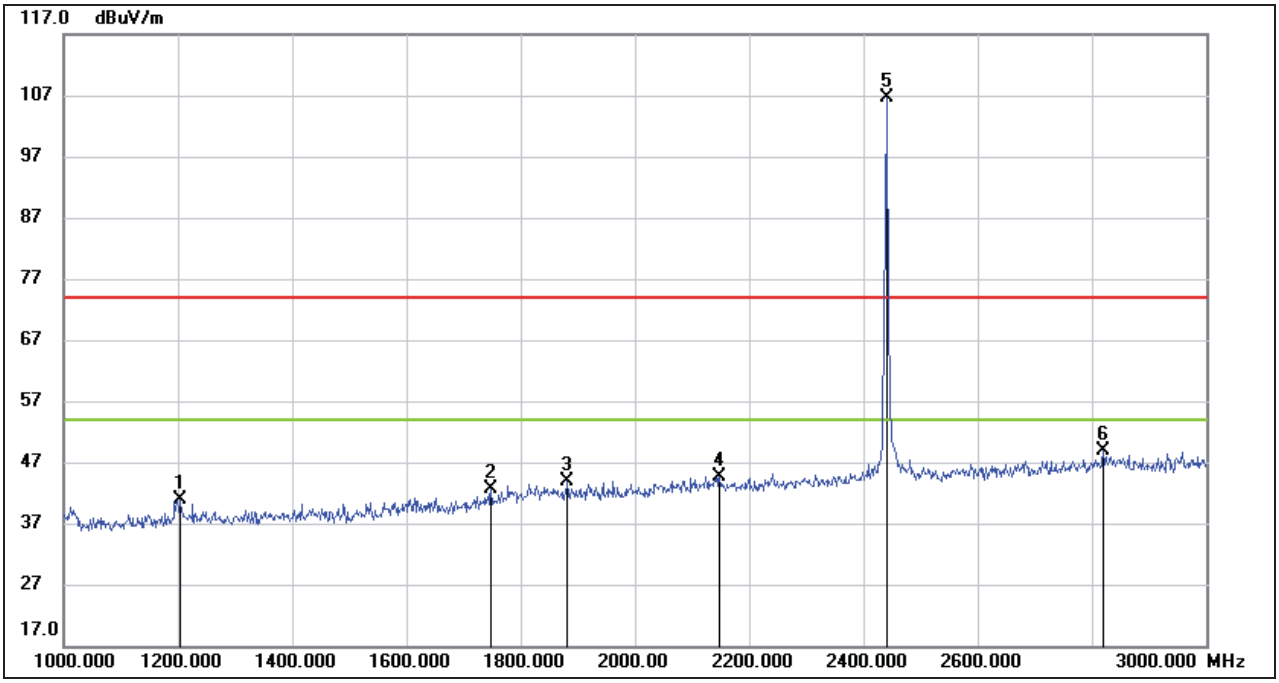
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1480.000	33.61	6.89	40.50	74.00	-33.50	peak
2	1864.000	34.07	9.73	43.80	74.00	-30.20	peak
3	2118.000	33.69	10.82	44.51	74.00	-29.49	peak
4	2402.000	89.92	11.66	101.58	/	/	fundamental
5	2466.000	35.37	11.91	47.28	74.00	-26.72	peak
6	2814.000	34.99	13.27	48.26	74.00	-25.74	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

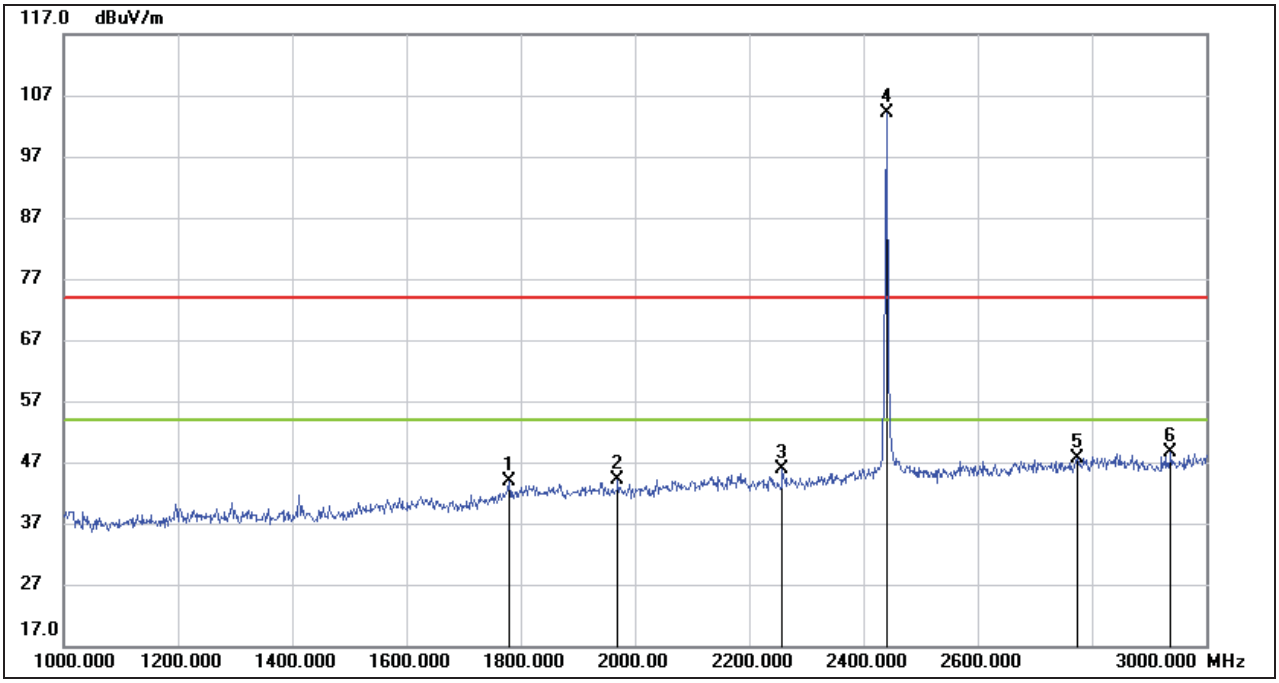
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1204.000	34.37	6.52	40.89	74.00	-33.11	peak
2	1748.000	33.84	8.84	42.68	74.00	-31.32	peak
3	1882.000	34.00	9.76	43.76	74.00	-30.24	peak
4	2148.000	33.68	10.90	44.58	74.00	-29.42	peak
5	2440.000	94.91	11.80	106.71	/	/	fundamental
6	2820.000	35.55	13.28	48.83	74.00	-25.17	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

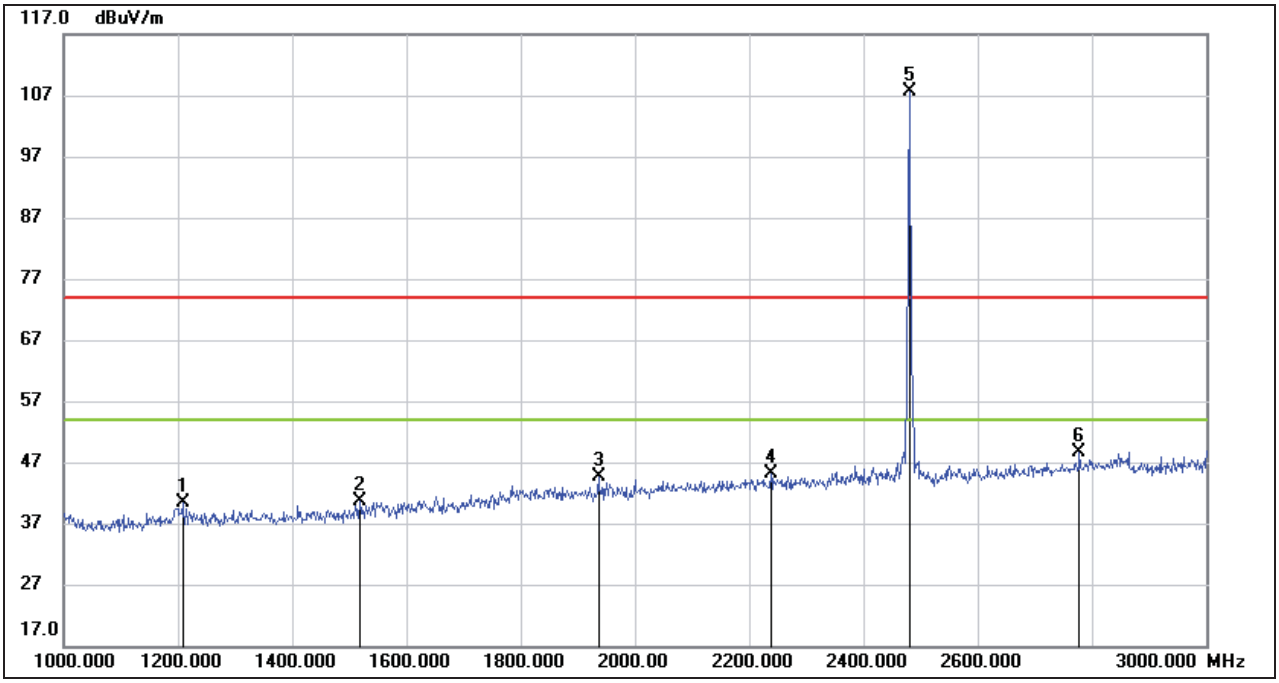
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1780.000	34.50	9.34	43.84	74.00	-30.16	peak
2	1970.000	34.06	9.96	44.02	74.00	-29.98	peak
3	2258.000	34.99	11.00	45.99	74.00	-28.01	peak
4	2440.000	92.21	11.80	104.01	/	/	fundamental
5	2774.000	34.61	13.05	47.66	74.00	-26.34	peak
6	2938.000	34.91	13.71	48.62	74.00	-25.38	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

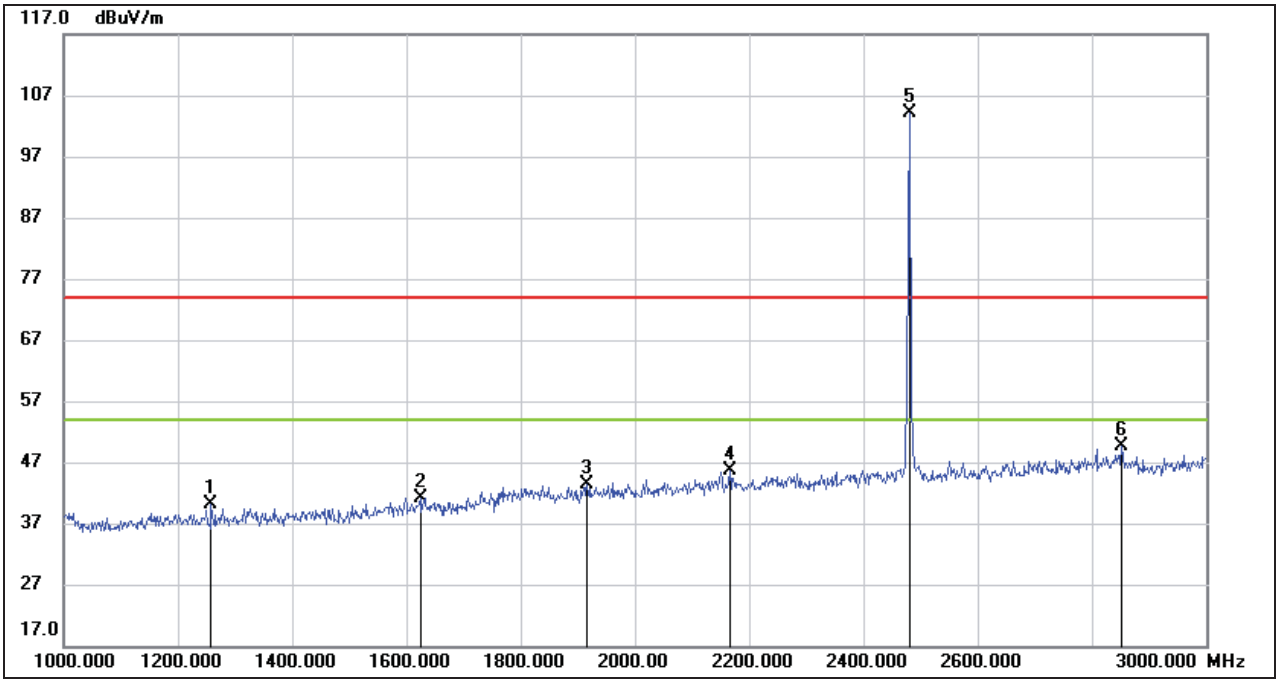
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1208.000	33.75	6.52	40.27	74.00	-33.73	peak
2	1518.000	33.51	7.12	40.63	74.00	-33.37	peak
3	1936.000	34.64	9.88	44.52	74.00	-29.48	peak
4	2238.000	34.14	11.01	45.15	74.00	-28.85	peak
5	2480.000	95.63	11.95	107.58	/	/	fundamental
6	2778.000	35.65	13.07	48.72	74.00	-25.28	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

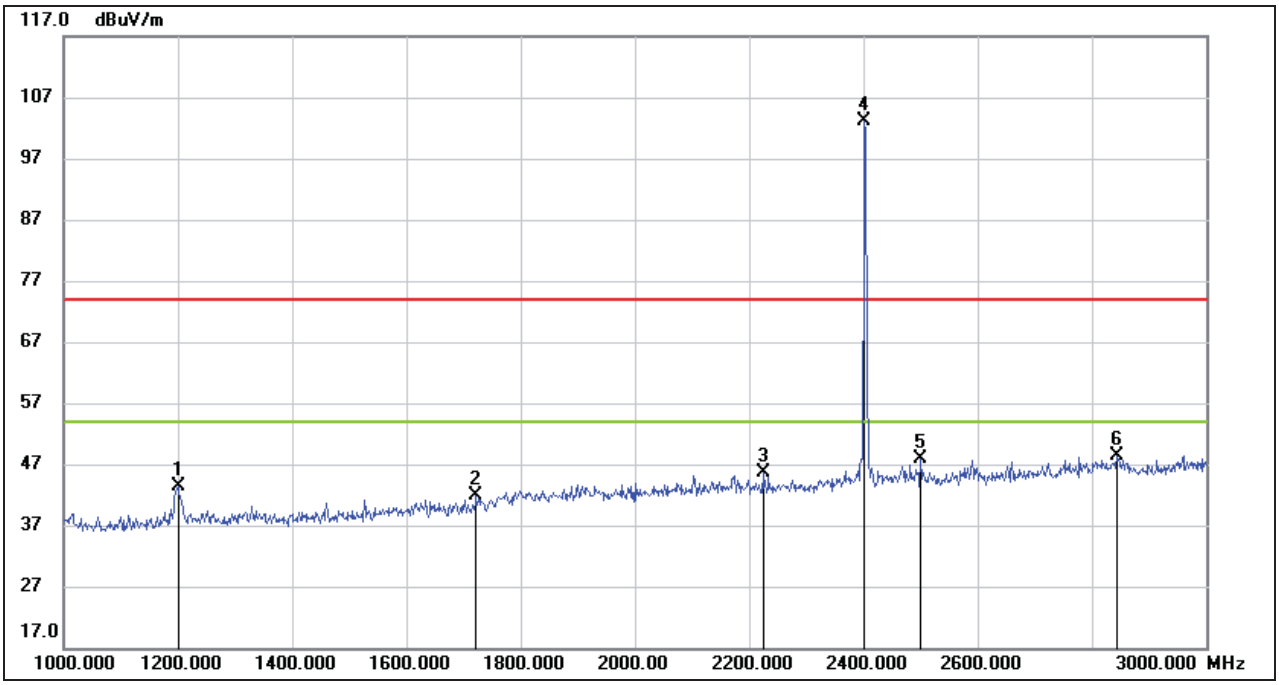


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1258.000	33.41	6.60	40.01	74.00	-33.99	peak
2	1624.000	33.18	7.95	41.13	74.00	-32.87	peak
3	1916.000	33.48	9.82	43.30	74.00	-30.70	peak
4	2166.000	34.76	10.94	45.70	74.00	-28.30	peak
5	2480.000	92.16	11.95	104.11	/	/	fundamental
6	2852.000	36.36	13.36	49.72	74.00	-24.28	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

ANT 3-W-M-D-B-N-0-0230

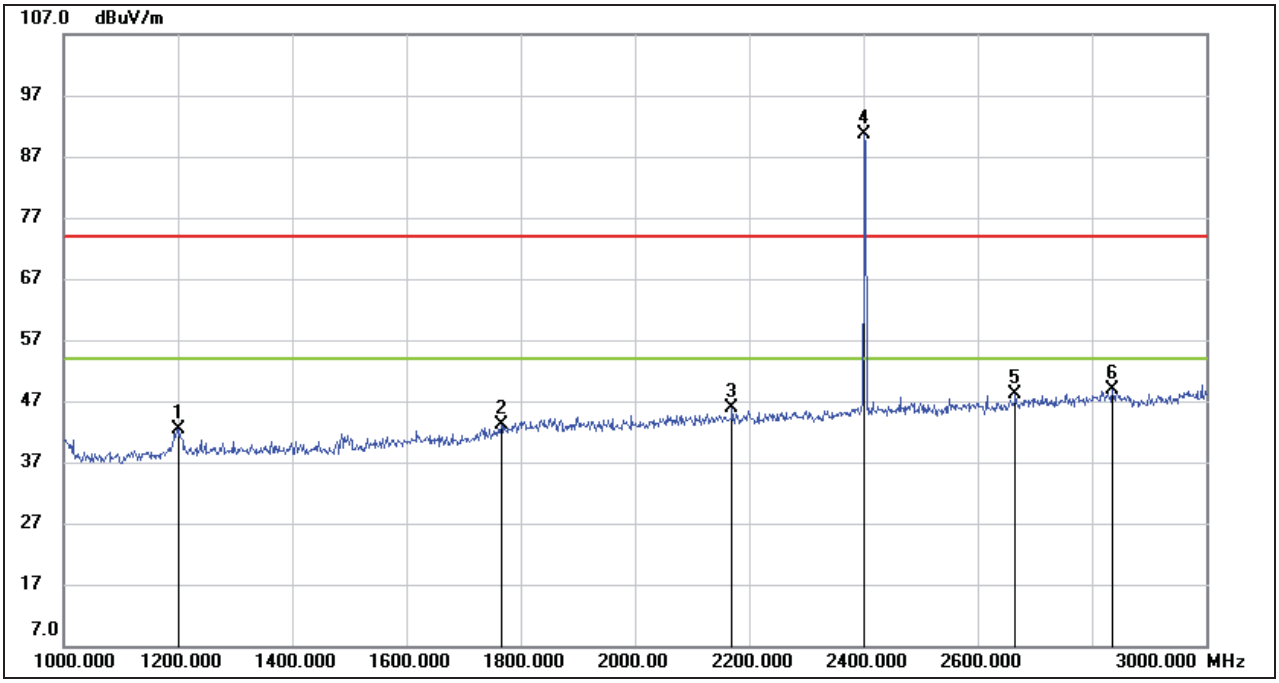
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.000	36.88	6.50	43.38	74.00	-30.62	peak
2	1722.000	33.37	8.44	41.81	74.00	-32.19	peak
3	2224.000	34.74	11.01	45.75	74.00	-28.25	peak
4	2402.000	91.46	11.66	103.12	/	/	fundamental
5	2500.000	35.93	12.04	47.97	74.00	-26.03	peak
6	2844.000	35.14	13.35	48.49	74.00	-25.51	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

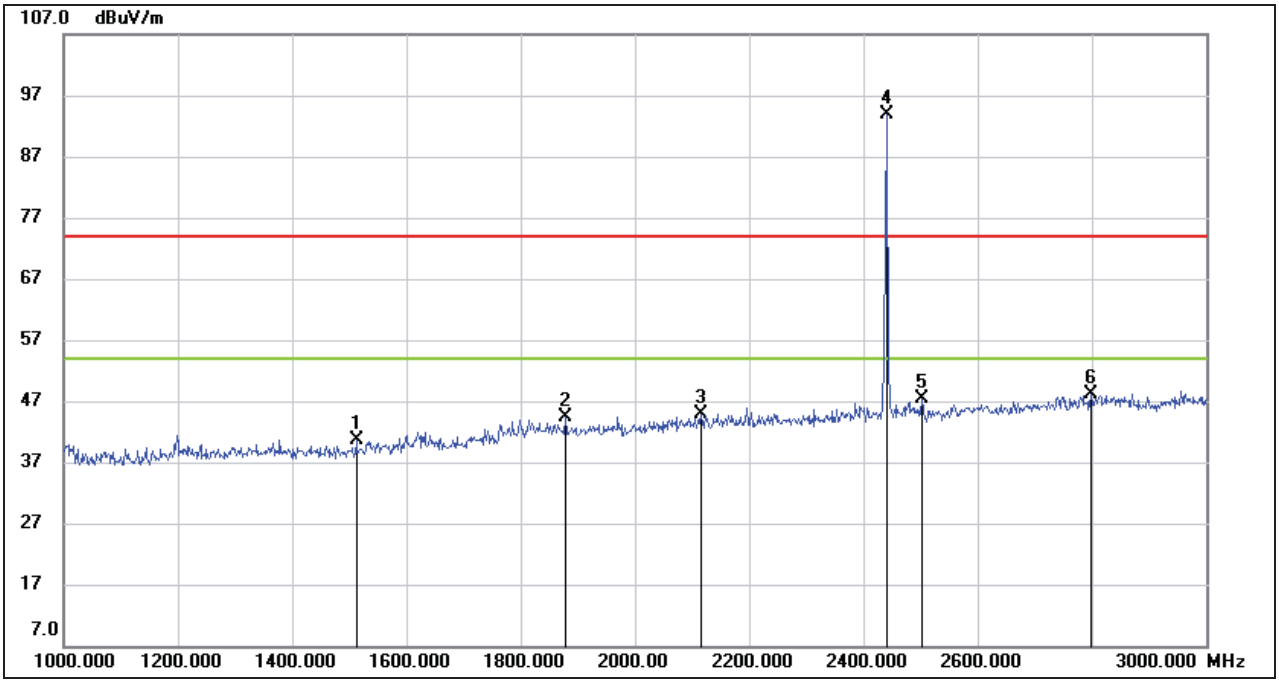
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1202.000	35.93	6.50	42.43	74.00	-31.57	peak
2	1766.000	34.04	9.12	43.16	74.00	-30.84	peak
3	2170.000	34.84	10.95	45.79	74.00	-28.21	peak
4	2402.000	78.89	11.66	90.55	/	/	fundamental
5	2666.000	35.82	12.33	48.15	74.00	-25.85	peak
6	2836.000	35.50	13.32	48.82	74.00	-25.18	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

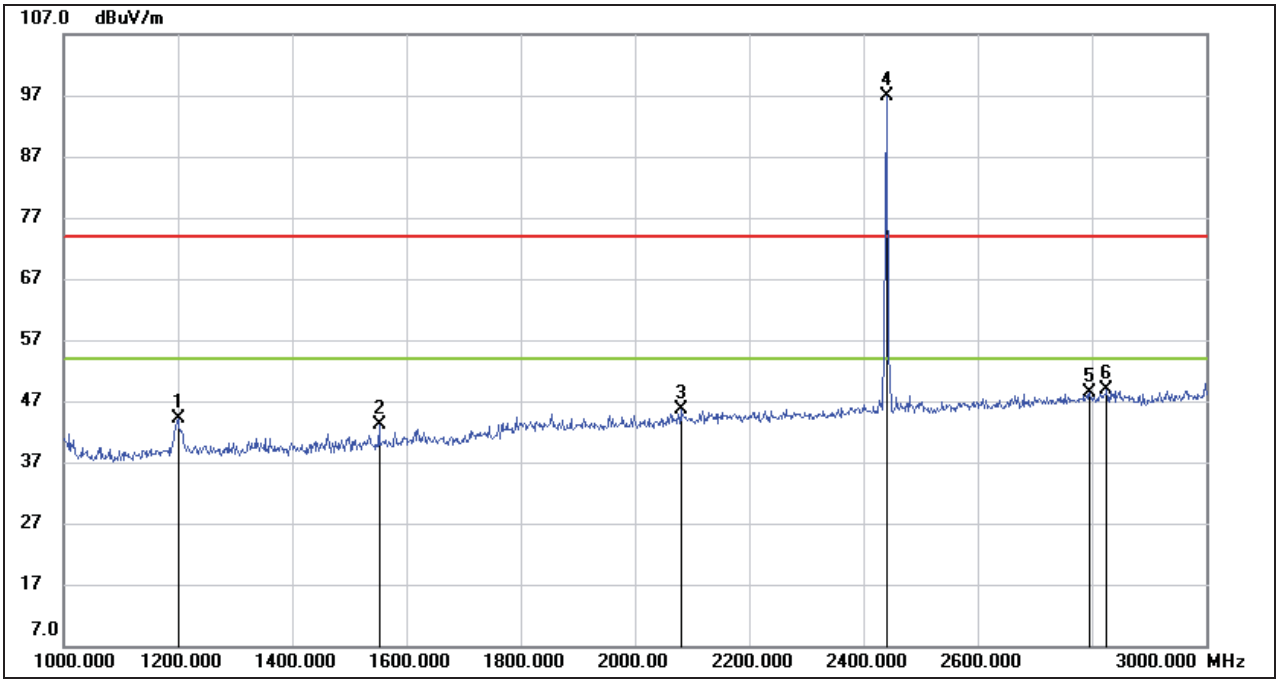
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1512.000	33.63	7.07	40.70	74.00	-33.30	peak
2	1878.000	34.54	9.76	44.30	74.00	-29.70	peak
3	2116.000	34.01	10.82	44.83	74.00	-29.17	peak
4	2440.000	82.12	11.80	93.92	/	/	fundamental
5	2502.000	35.33	12.04	47.37	74.00	-26.63	peak
6	2798.000	34.99	13.21	48.20	74.00	-25.80	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

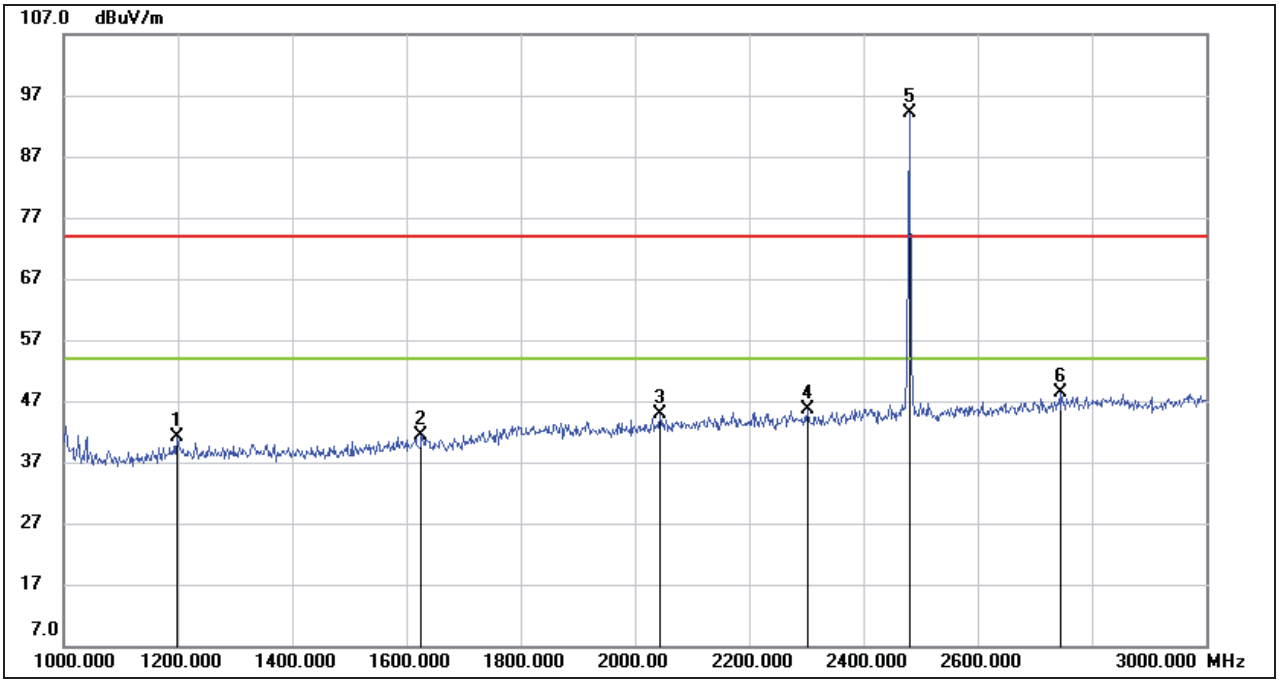
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1200.000	37.70	6.50	44.20	74.00	-29.80	peak
2	1552.000	35.59	7.45	43.04	74.00	-30.96	peak
3	2080.000	35.01	10.62	45.63	74.00	-28.37	peak
4	2440.000	85.06	11.80	96.86	/	/	fundamental
5	2796.000	35.05	13.21	48.26	74.00	-25.74	peak
6	2826.000	35.48	13.29	48.77	74.00	-25.23	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

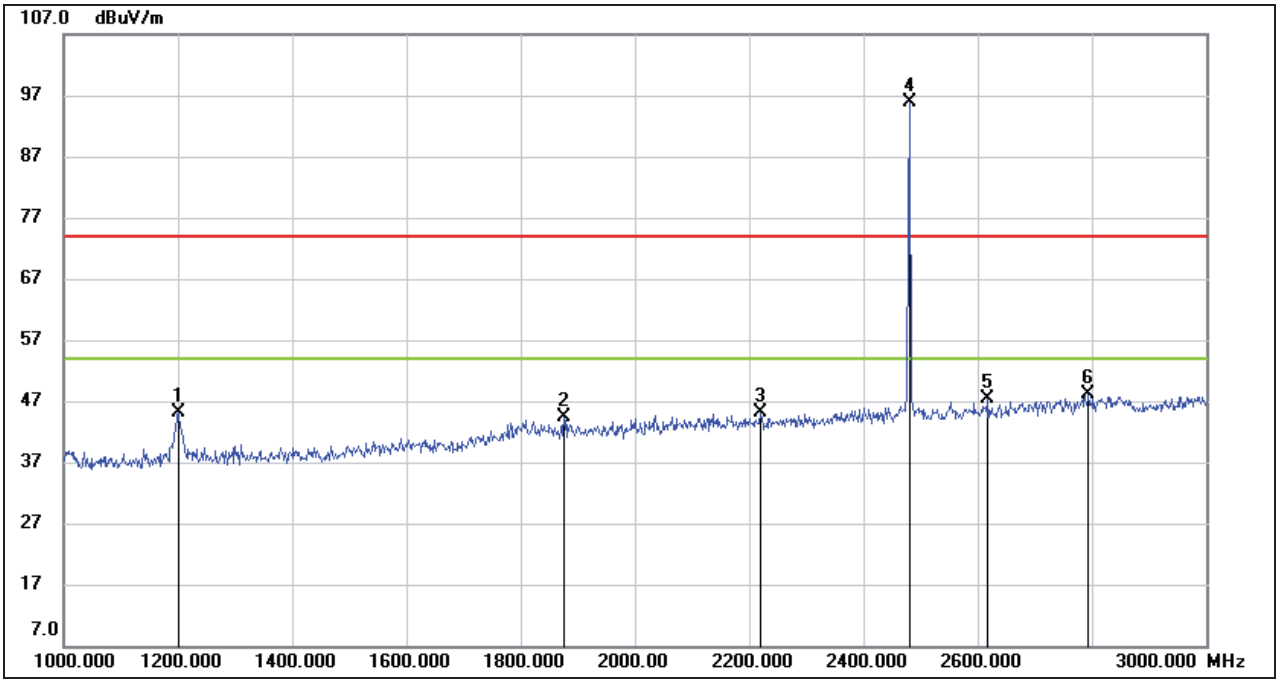
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1198.000	34.64	6.48	41.12	74.00	-32.88	peak
2	1626.000	33.34	7.96	41.30	74.00	-32.70	peak
3	2044.000	34.52	10.36	44.88	74.00	-29.12	peak
4	2302.000	34.52	11.00	45.52	74.00	-28.48	peak
5	2480.000	82.15	11.95	94.10	/	/	fundamental
6	2744.000	35.51	12.83	48.34	74.00	-25.66	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1200.000	38.69	6.50	45.19	74.00	-28.81	peak
2	1876.000	34.68	9.76	44.44	74.00	-29.56	peak
3	2220.000	34.23	11.02	45.25	74.00	-28.75	peak
4	2480.000	83.90	11.95	95.85	/	/	fundamental
5	2618.000	35.22	12.05	47.27	74.00	-26.73	peak
6	2794.000	34.94	13.19	48.13	74.00	-25.87	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

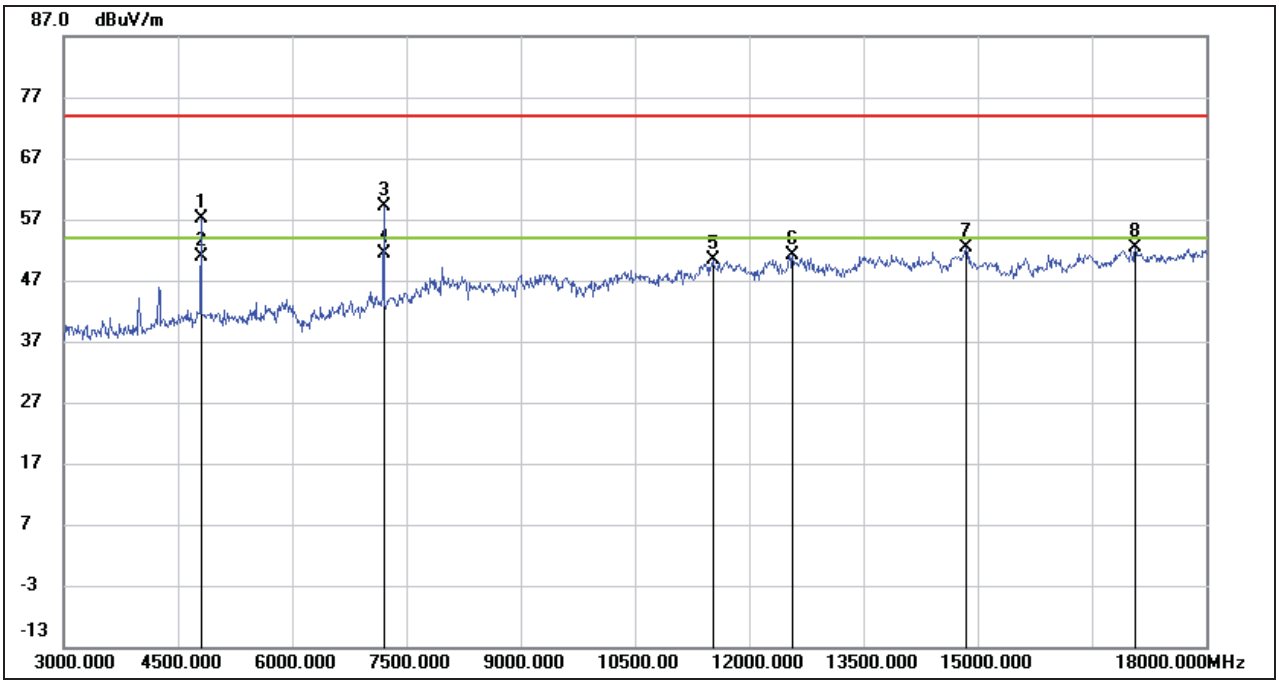
Note: All the modes and channels had been tested, but only the worst data was recorded in the report.

8.3. SPURIOUS EMISSIONS (3 GHz ~ 18 GHz)

8.3.1. LE 1M MODE

ANT 1-2.00004829

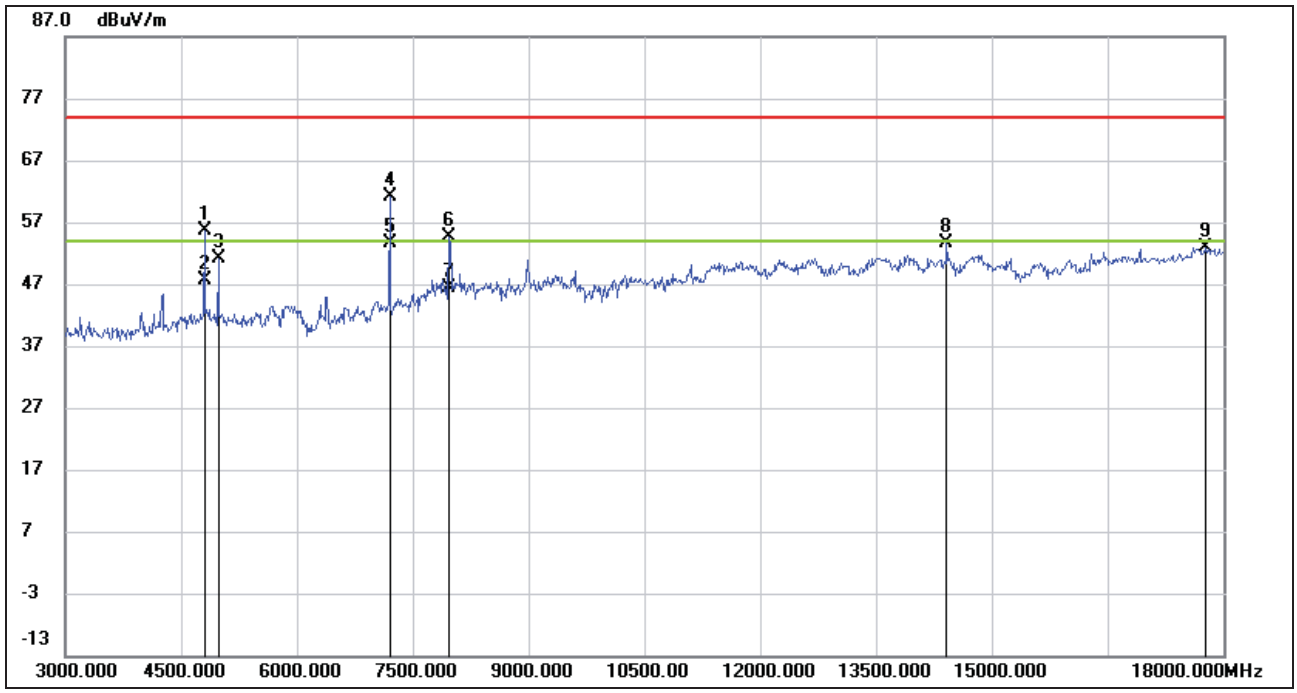
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4800.000	55.81	1.40	57.21	74.00	-16.79	peak
2	4800.000	49.38	1.40	50.78	54.00	-3.22	AVG
3	7200.000	51.82	7.36	59.18	74.00	-14.82	peak
4	7200.000	43.94	7.36	51.30	54.00	-2.70	AVG
5	11520.000	35.76	14.66	50.42	74.00	-23.58	peak
6	12570.000	35.33	15.75	51.08	74.00	-22.92	peak
7	14850.000	34.60	17.71	52.31	74.00	-21.69	peak
8	17070.000	30.57	21.71	52.28	74.00	-21.72	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

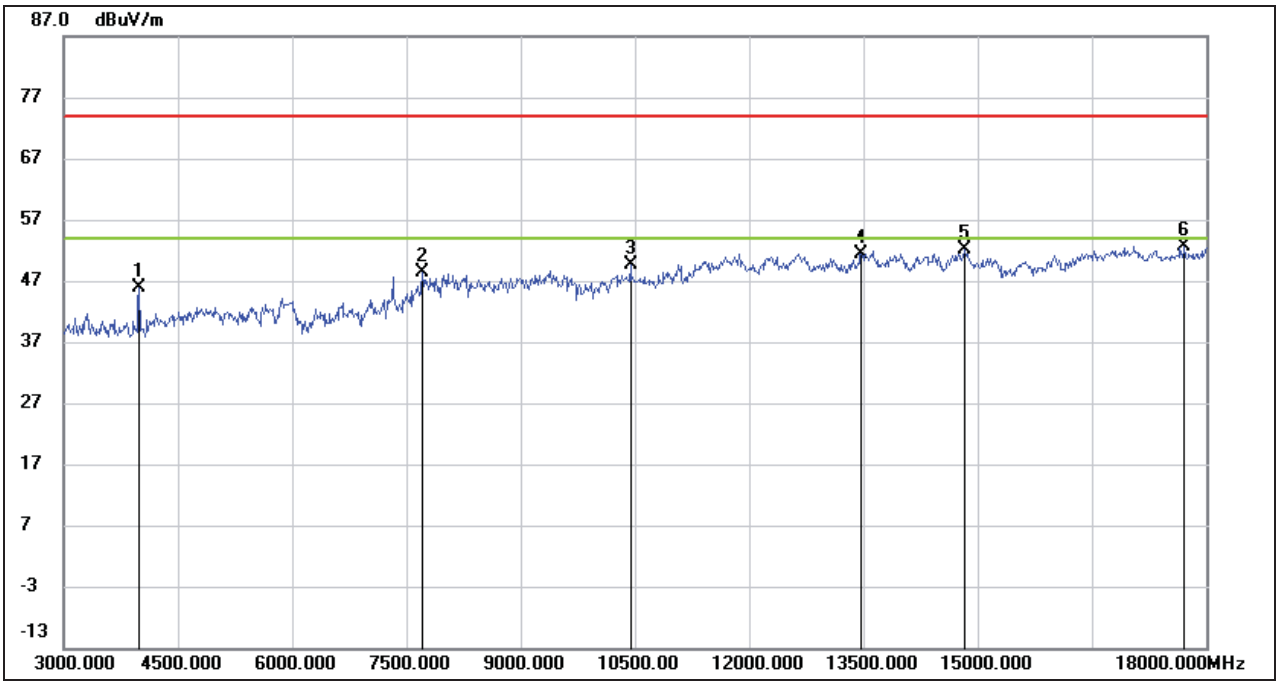
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	54.14	1.40	55.54	74.00	-18.46	peak
2	4800.000	46.27	1.40	47.67	54.00	-6.33	AVG
3	4980.000	49.15	1.98	51.13	74.00	-22.87	peak
4	7200.000	53.86	7.36	61.22	74.00	-12.78	peak
5	7200.000	46.31	7.36	53.67	54.00	-0.33	AVG
6	7965.000	45.99	8.71	54.70	74.00	-19.30	peak
7	7965.000	37.60	8.71	46.31	54.00	-7.69	AVG
8	14415.000	36.22	17.36	53.58	74.00	-20.42	peak
9	17760.000	29.16	23.82	52.98	74.00	-21.02	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

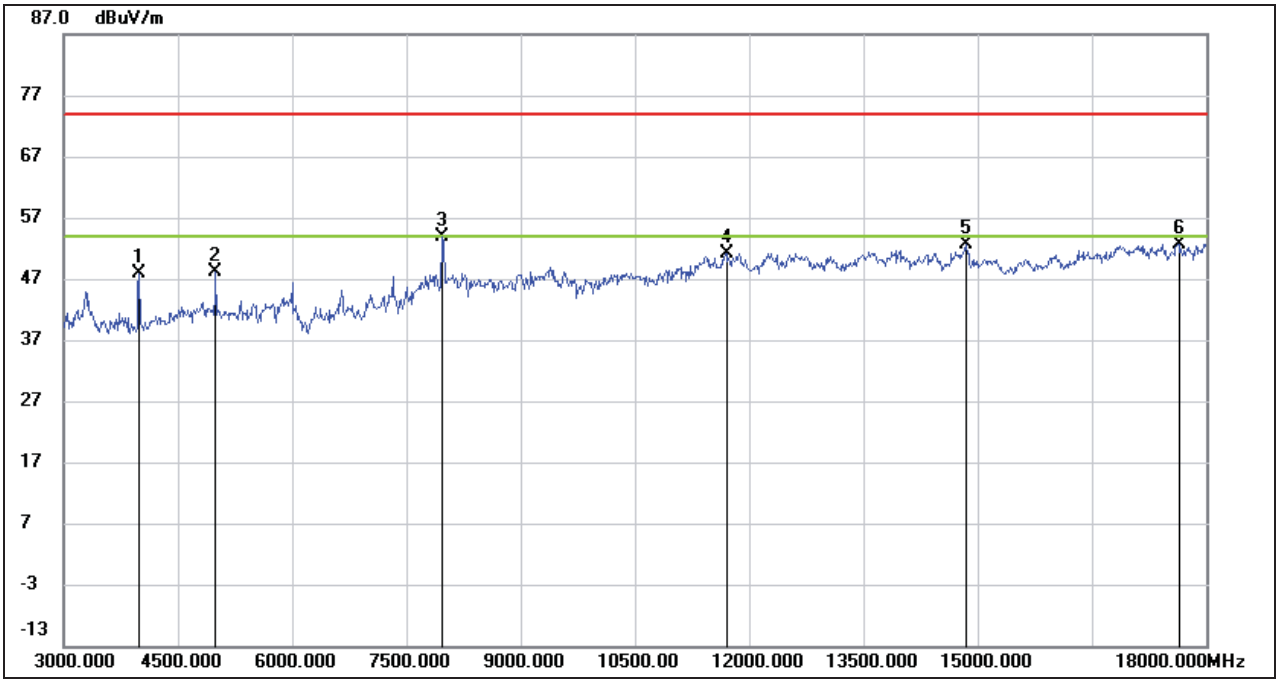
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	48.33	-2.51	45.82	74.00	-28.18	peak
2	7710.000	39.73	8.54	48.27	74.00	-25.73	peak
3	10440.000	37.23	12.28	49.51	74.00	-24.49	peak
4	13470.000	34.30	17.15	51.45	74.00	-22.55	peak
5	14835.000	34.23	17.80	52.03	74.00	-21.97	peak
6	17715.000	28.99	23.56	52.55	74.00	-21.45	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

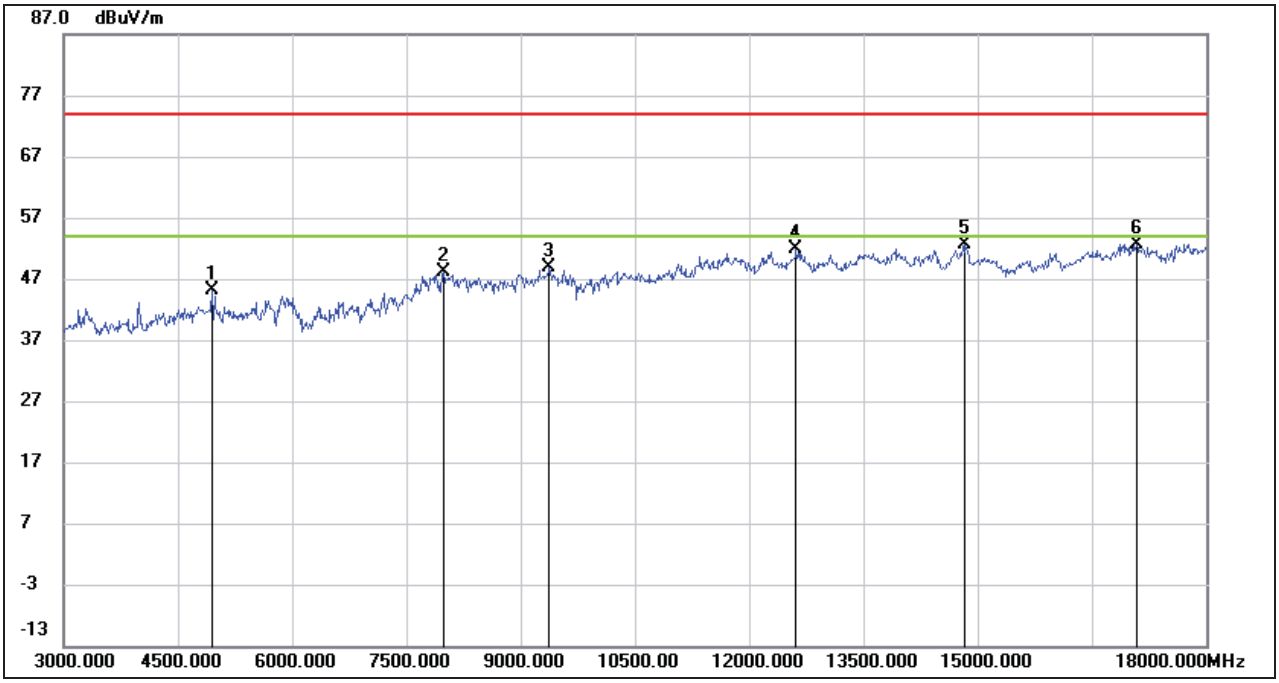
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.50	-2.51	47.99	74.00	-26.01	peak
2	4995.000	46.07	2.10	48.17	74.00	-25.83	peak
3	7965.000	45.06	8.71	53.77	74.00	-20.23	peak
4	11700.000	35.85	15.35	51.20	74.00	-22.80	peak
5	14850.000	35.01	17.71	52.72	74.00	-21.28	peak
6	17640.000	29.61	23.03	52.64	74.00	-21.36	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

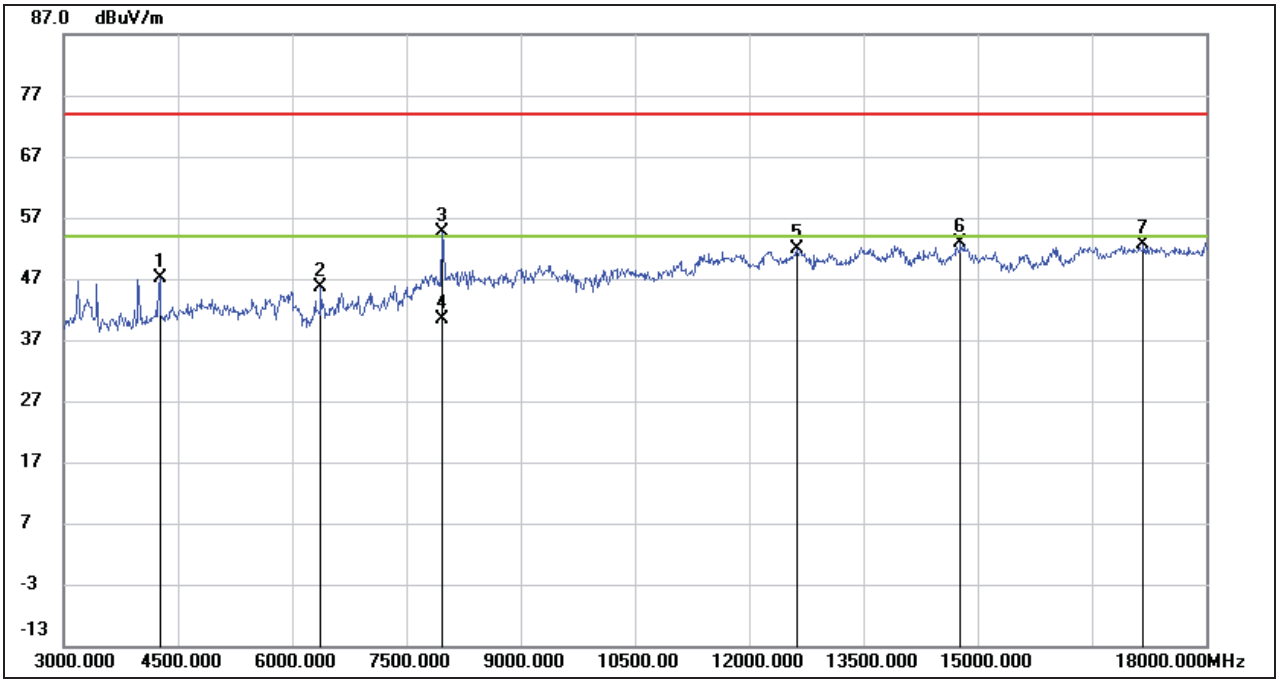
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	43.37	1.71	45.08	74.00	-28.92	peak
2	7995.000	39.47	8.65	48.12	74.00	-25.88	peak
3	9375.000	37.95	10.83	48.78	74.00	-25.22	peak
4	12615.000	36.23	15.75	51.98	74.00	-22.02	peak
5	14820.000	34.65	17.91	52.56	74.00	-21.44	peak
6	17085.000	30.89	21.80	52.69	74.00	-21.31	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

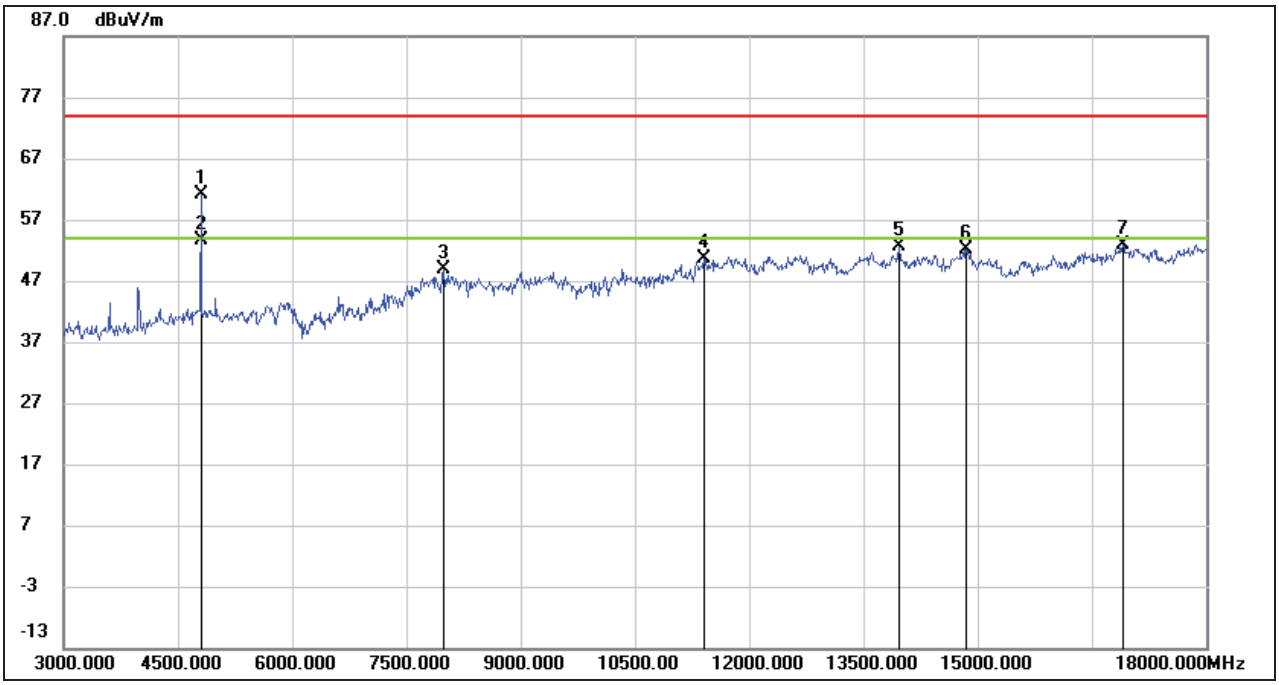


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4260.000	48.48	-1.36	47.12	74.00	-26.88	peak
2	6375.000	40.90	4.77	45.67	74.00	-28.33	peak
3	7965.000	46.00	8.71	54.71	74.00	-19.29	peak
4	7965.000	31.60	8.71	40.31	54.00	-13.69	AVG
5	12630.000	36.10	15.72	51.82	74.00	-22.18	peak
6	14775.000	34.83	17.95	52.78	74.00	-21.22	peak
7	17175.000	30.64	21.97	52.61	74.00	-21.39	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

ANT 2-AG-041533-2120

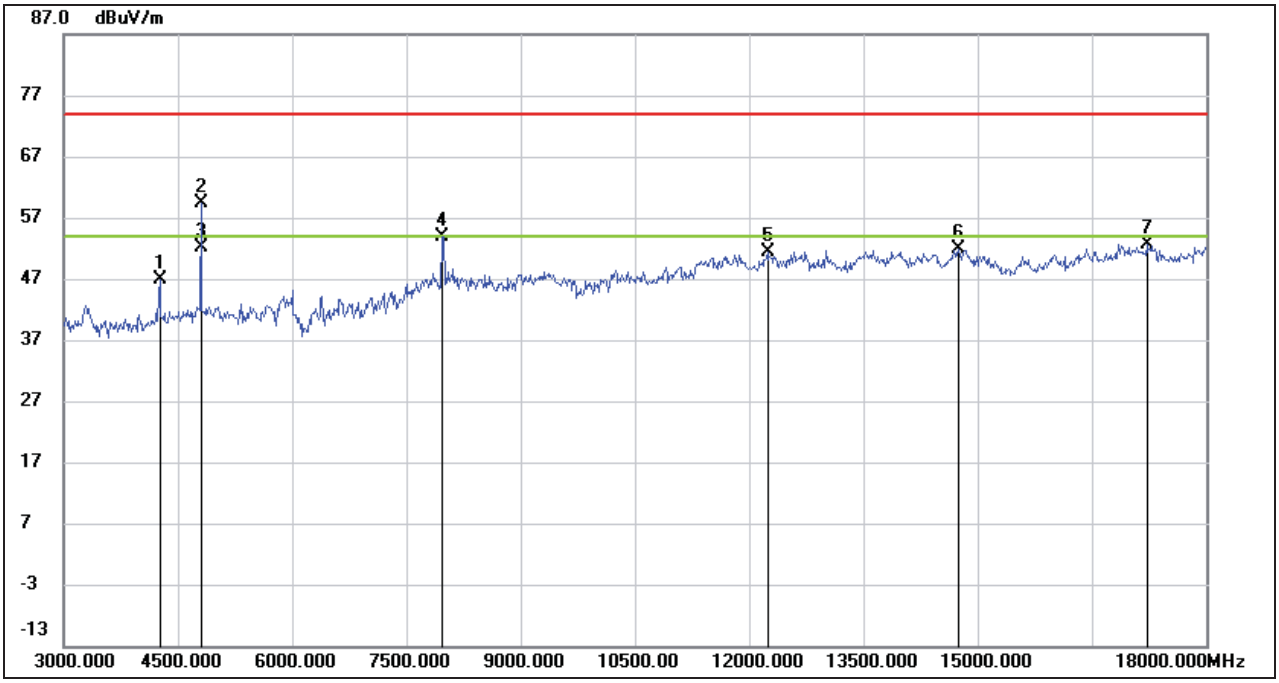
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	59.66	1.40	61.06	74.00	-12.94	peak
2	4800.000	52.31	1.40	53.71	54.00	-0.29	AVG
3	7980.000	40.24	8.67	48.91	74.00	-25.09	peak
4	11400.000	35.84	14.76	50.60	74.00	-23.40	peak
5	13965.000	34.92	17.62	52.54	74.00	-21.46	peak
6	14850.000	34.50	17.71	52.21	74.00	-21.79	peak
7	16905.000	31.40	21.55	52.95	74.00	-21.05	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

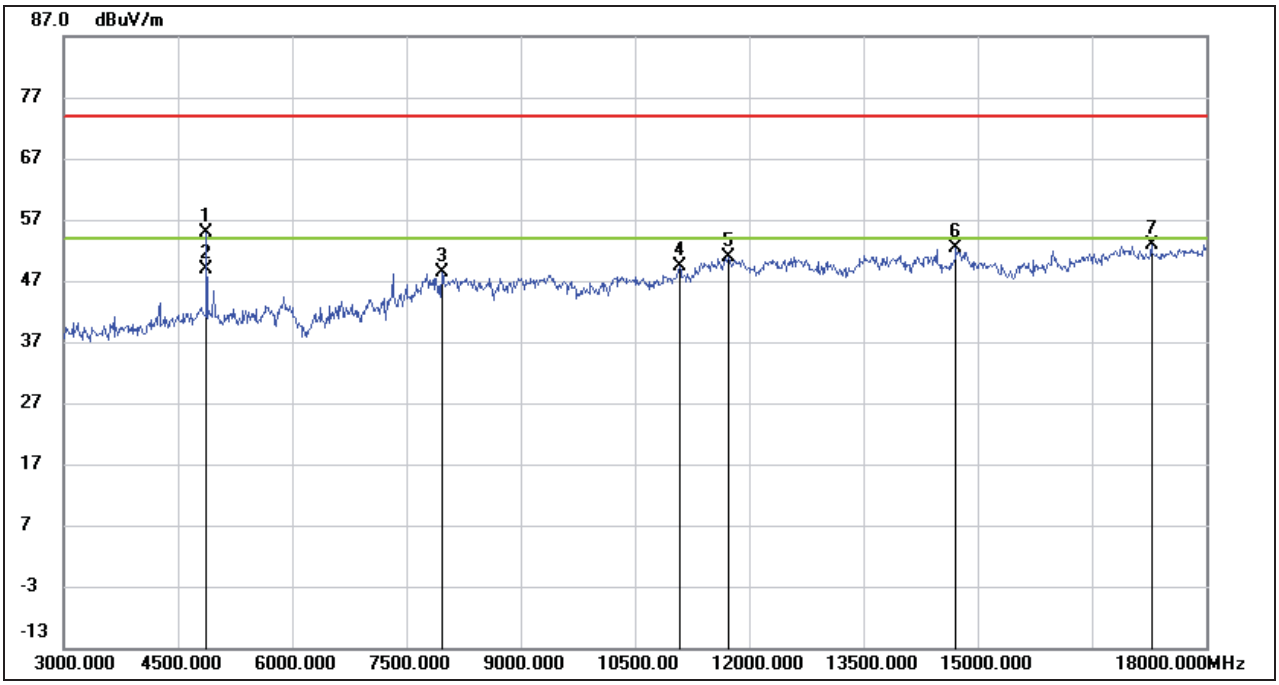
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4260.000	48.20	-1.36	46.84	74.00	-27.16	peak
2	4800.000	58.05	1.40	59.45	74.00	-14.55	peak
3	4800.000	50.81	1.40	52.21	54.00	-1.79	AVG
4	7965.000	45.27	8.71	53.98	74.00	-20.02	peak
5	12240.000	35.41	16.01	51.42	74.00	-22.58	peak
6	14745.000	34.01	17.84	51.85	74.00	-22.15	peak
7	17220.000	30.49	22.12	52.61	74.00	-21.39	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

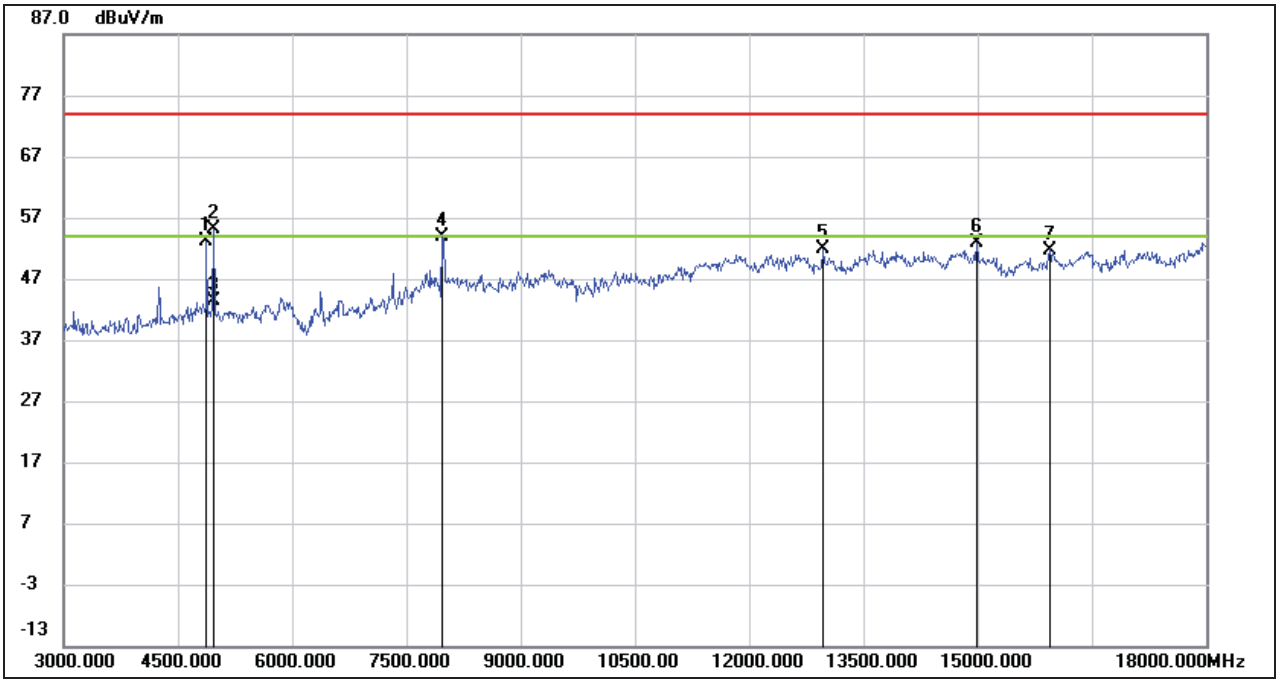
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	53.49	1.32	54.81	74.00	-19.19	peak
2	4875.000	47.56	1.32	48.88	54.00	-5.12	AVG
3	7965.000	39.73	8.71	48.44	74.00	-25.56	peak
4	11085.000	35.57	13.72	49.29	74.00	-24.71	peak
5	11730.000	35.46	15.32	50.78	74.00	-23.22	peak
6	14715.000	34.65	17.74	52.39	74.00	-21.61	peak
7	17280.000	30.29	22.48	52.77	74.00	-21.23	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

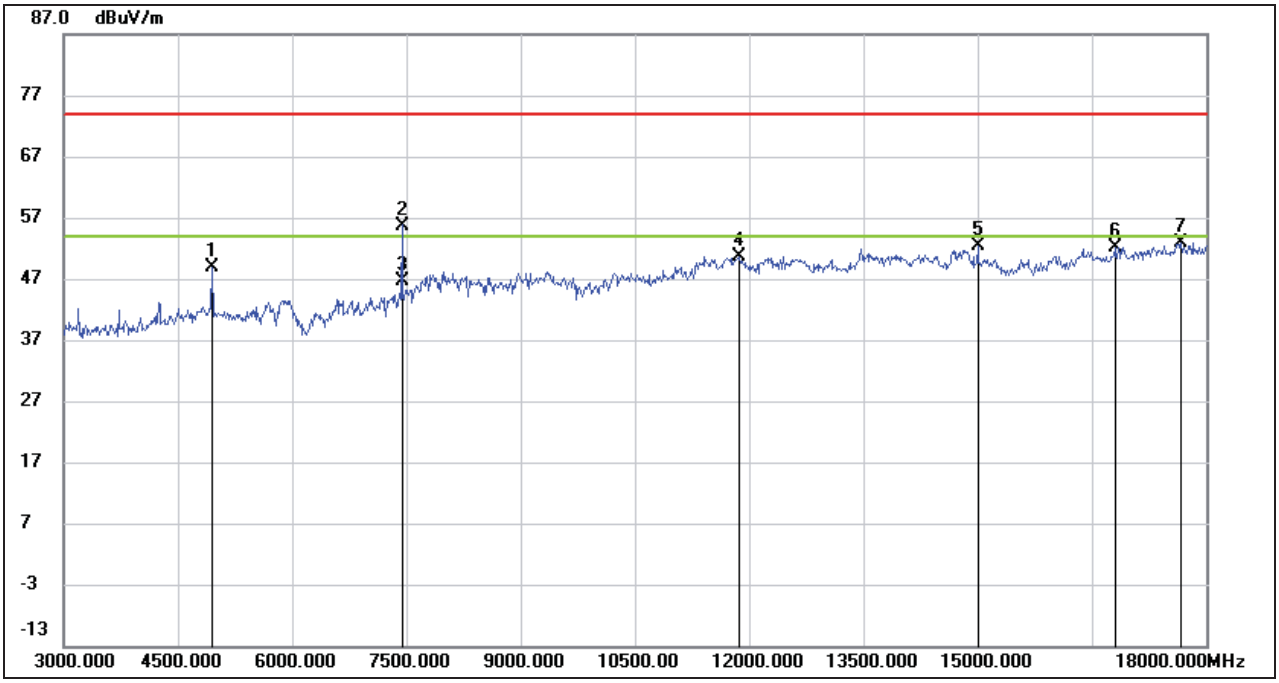
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	51.74	1.32	53.06	74.00	-20.94	peak
2	4965.000	53.28	1.84	55.12	74.00	-18.88	peak
3	4965.000	41.52	1.84	43.36	54.00	-10.64	AVG
4	7965.000	45.19	8.71	53.90	74.00	-20.10	peak
5	12975.000	35.86	16.12	51.98	74.00	-22.02	peak
6	14985.000	35.15	17.63	52.78	74.00	-21.22	peak
7	15945.000	33.53	18.22	51.75	74.00	-22.25	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

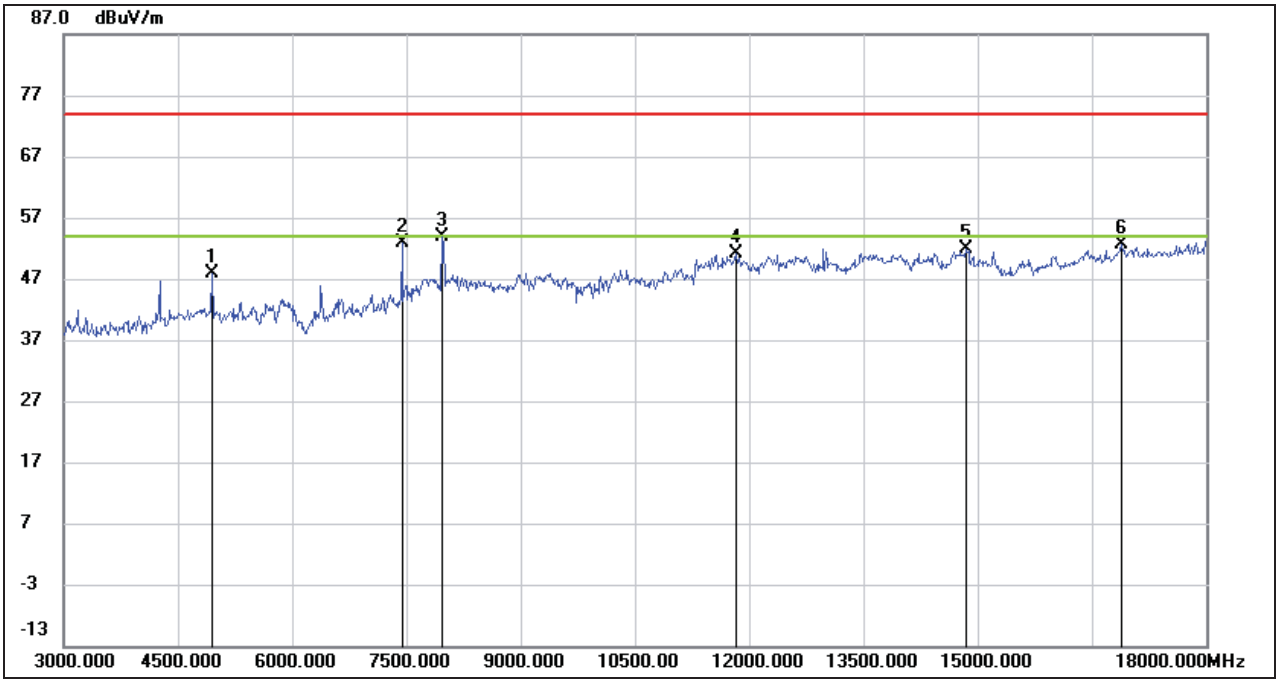
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	47.22	1.71	48.93	74.00	-25.07	peak
2	7440.000	47.62	8.13	55.75	74.00	-18.25	peak
3	7440.000	38.56	8.13	46.69	54.00	-7.31	AVG
4	11865.000	35.18	15.42	50.60	74.00	-23.40	peak
5	15000.000	34.62	17.68	52.30	74.00	-21.70	peak
6	16800.000	31.41	20.71	52.12	74.00	-21.88	peak
7	17670.000	29.55	23.24	52.79	74.00	-21.21	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

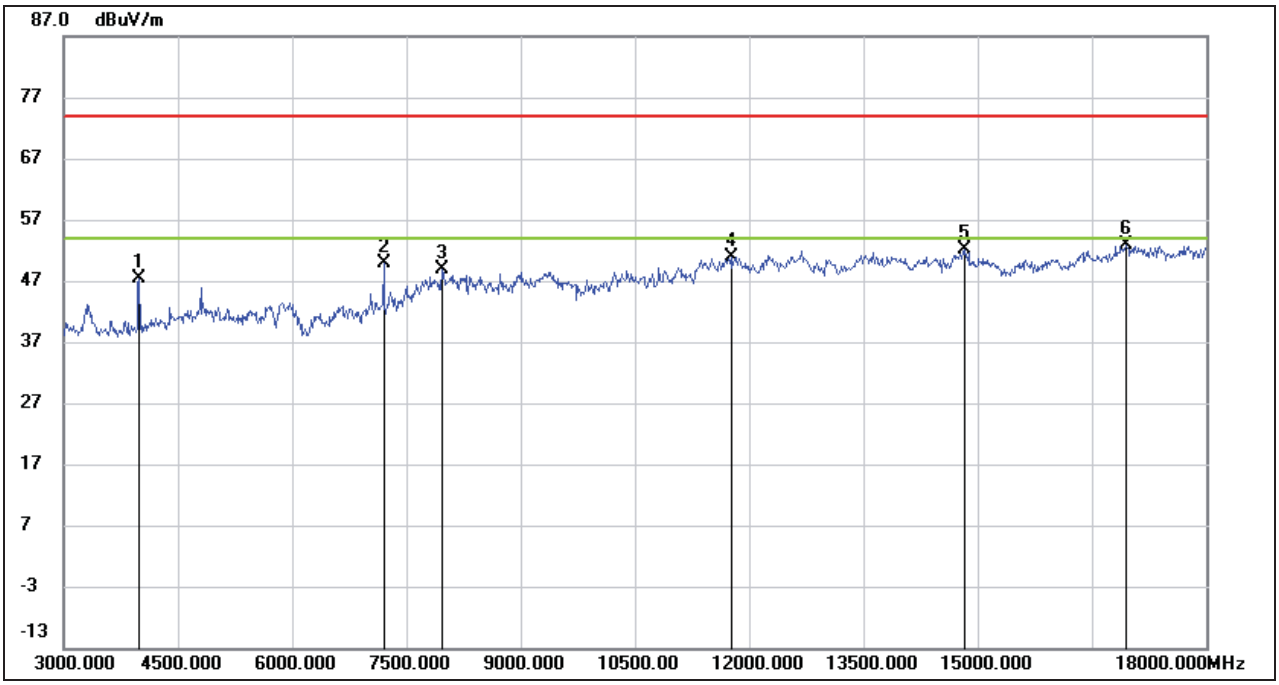


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4950.000	46.09	1.71	47.80	74.00	-26.20	peak
2	7440.000	44.83	8.13	52.96	74.00	-21.04	peak
3	7965.000	45.11	8.71	53.82	74.00	-20.18	peak
4	11835.000	35.69	15.34	51.03	74.00	-22.97	peak
5	14850.000	34.09	17.71	51.80	74.00	-22.20	peak
6	16890.000	31.11	21.49	52.60	74.00	-21.40	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

ANT 3-W-M-D-B-N-0-0230

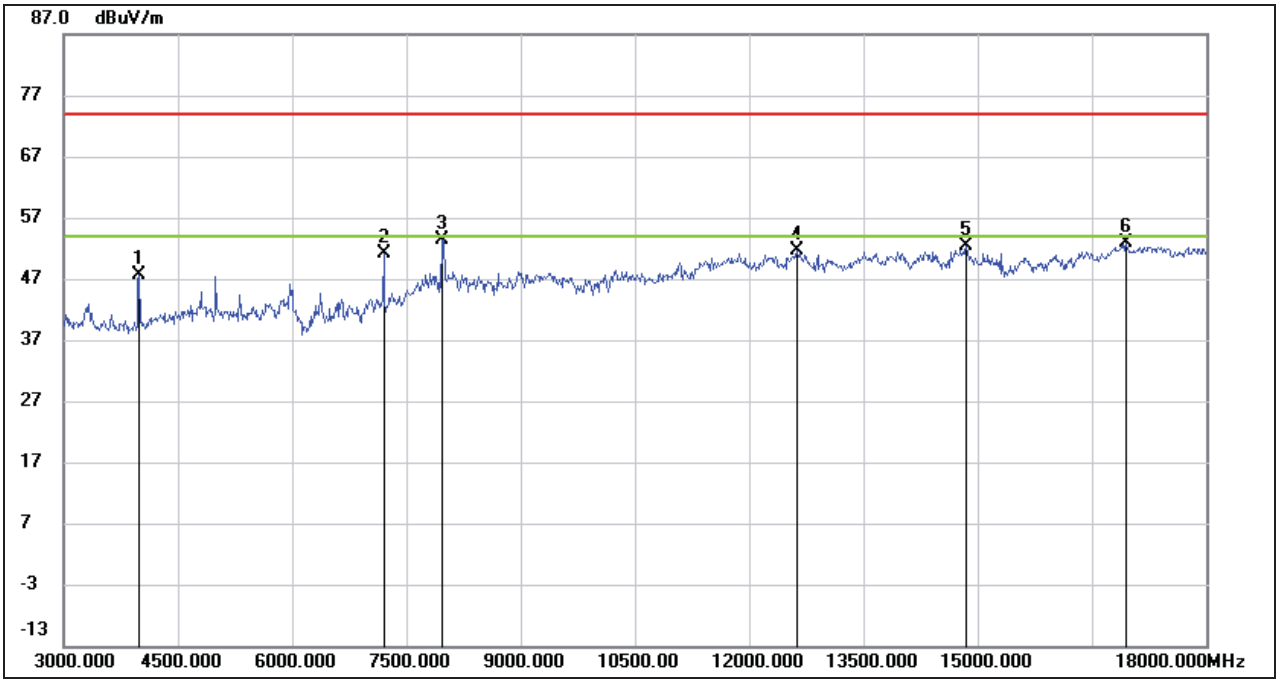
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	49.80	-2.51	47.29	74.00	-26.71	peak
2	7200.000	42.59	7.36	49.95	74.00	-24.05	peak
3	7965.000	40.18	8.71	48.89	74.00	-25.11	peak
4	11760.000	35.66	15.29	50.95	74.00	-23.05	peak
5	14820.000	34.19	17.91	52.10	74.00	-21.90	peak
6	16950.000	31.40	21.41	52.81	74.00	-21.19	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

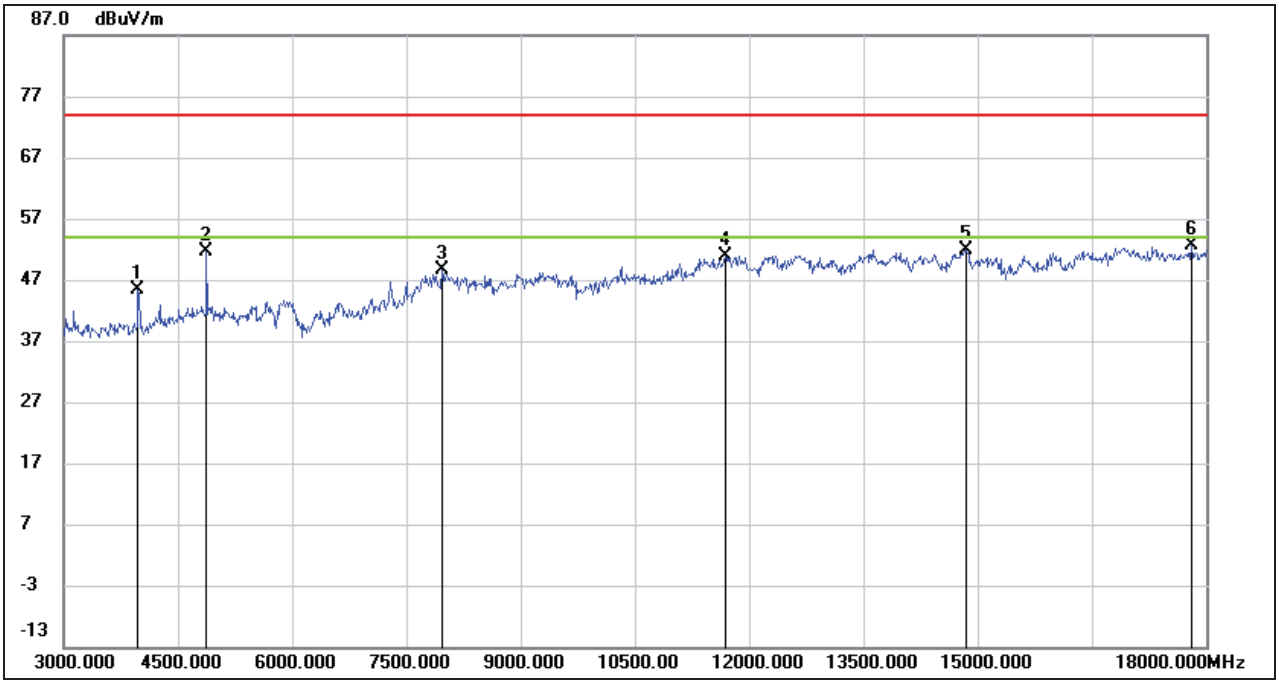
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.14	-2.51	47.63	74.00	-26.37	peak
2	7200.000	43.70	7.36	51.06	74.00	-22.94	peak
3	7965.000	44.64	8.71	53.35	74.00	-20.65	peak
4	12630.000	35.98	15.72	51.70	74.00	-22.30	peak
5	14850.000	34.73	17.71	52.44	74.00	-21.56	peak
6	16950.000	31.53	21.41	52.94	74.00	-21.06	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

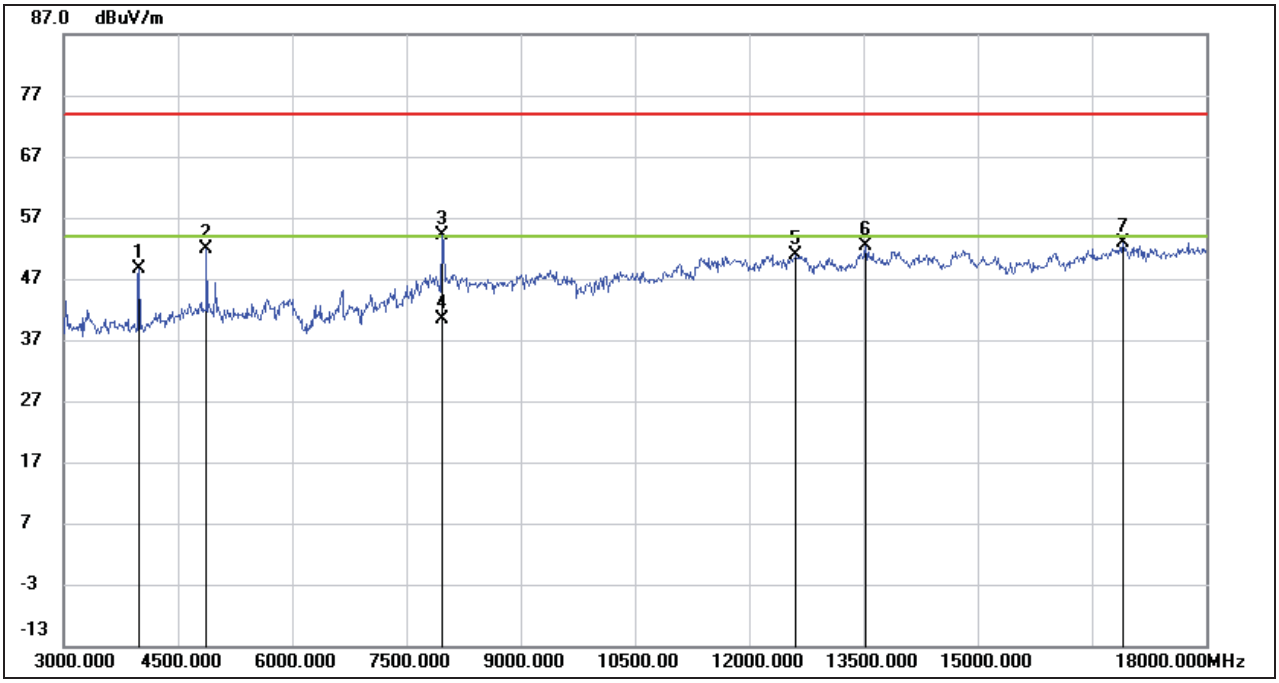
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3975.000	47.92	-2.57	45.35	74.00	-28.65	peak
2	4875.000	50.35	1.32	51.67	74.00	-22.33	peak
3	7965.000	39.96	8.71	48.67	74.00	-25.33	peak
4	11685.000	35.61	15.26	50.87	74.00	-23.13	peak
5	14850.000	34.20	17.71	51.91	74.00	-22.09	peak
6	17805.000	28.62	24.05	52.67	74.00	-21.33	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

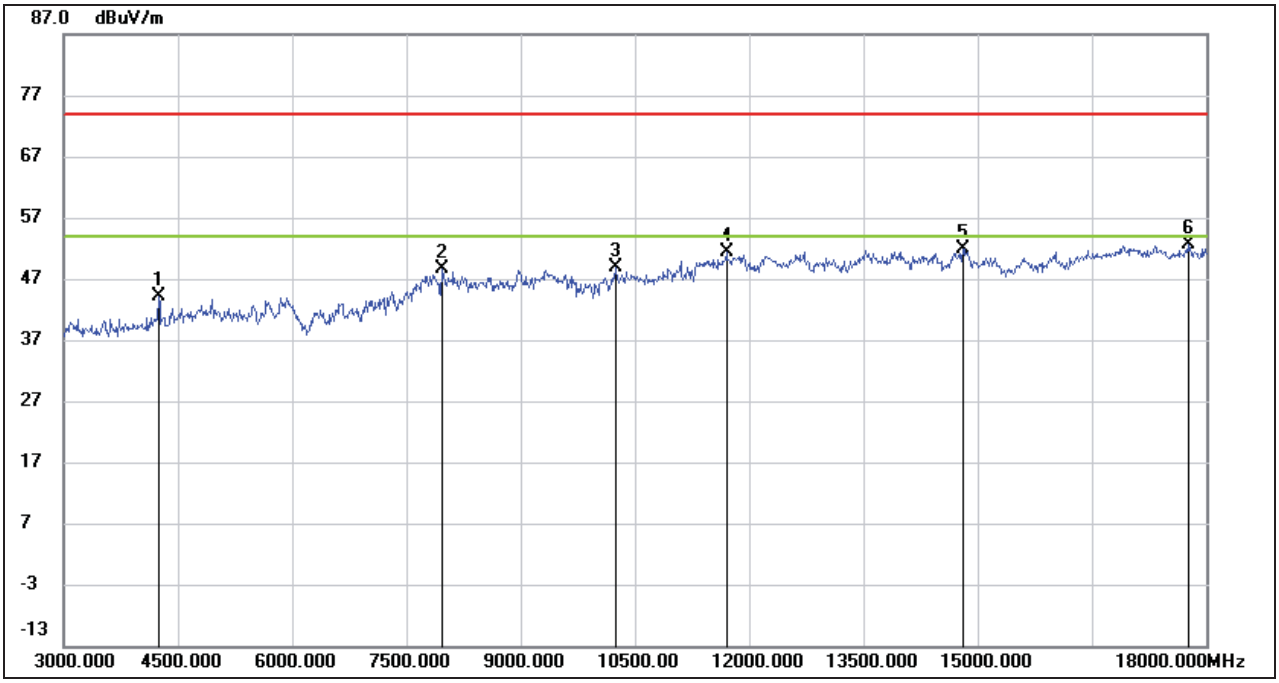
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	51.13	-2.51	48.62	74.00	-25.38	peak
2	4875.000	50.66	1.32	51.98	74.00	-22.02	peak
3	7965.000	45.42	8.71	54.13	74.00	-19.87	peak
4	7965.000	31.65	8.71	40.36	54.00	-13.64	AVG
5	12615.000	35.20	15.75	50.95	74.00	-23.05	peak
6	13530.000	35.07	17.19	52.26	74.00	-21.74	peak
7	16905.000	31.32	21.55	52.87	74.00	-21.13	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

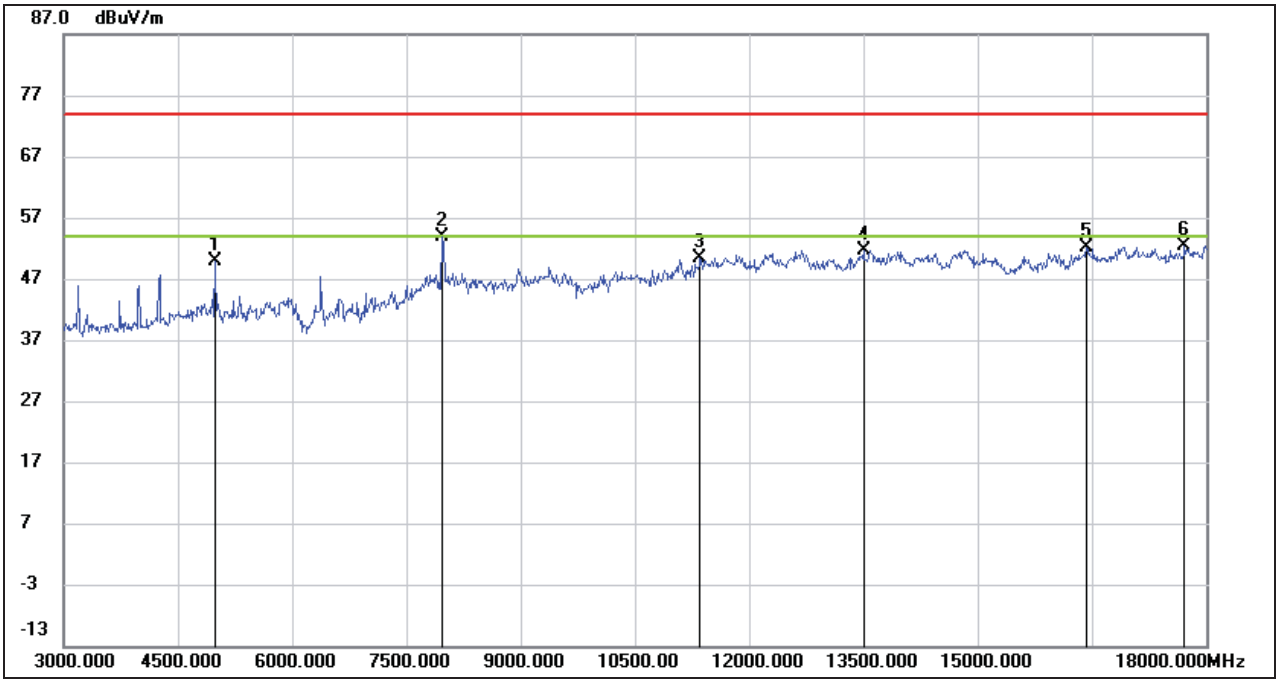
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4245.000	45.47	-1.30	44.17	74.00	-29.83	peak
2	7965.000	39.94	8.71	48.65	74.00	-25.35	peak
3	10245.000	37.16	11.63	48.79	74.00	-25.21	peak
4	11700.000	36.05	15.35	51.40	74.00	-22.60	peak
5	14805.000	33.98	18.00	51.98	74.00	-22.02	peak
6	17760.000	28.77	23.82	52.59	74.00	-21.41	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4980.000	47.96	1.98	49.94	74.00	-24.06	peak
2	7965.000	45.09	8.71	53.80	74.00	-20.20	peak
3	11355.000	36.09	14.34	50.43	74.00	-23.57	peak
4	13500.000	34.41	17.22	51.63	74.00	-22.37	peak
5	16425.000	32.33	19.68	52.01	74.00	-21.99	peak
6	17715.000	28.72	23.56	52.28	74.00	-21.72	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8.3.2. LE 2M MODE

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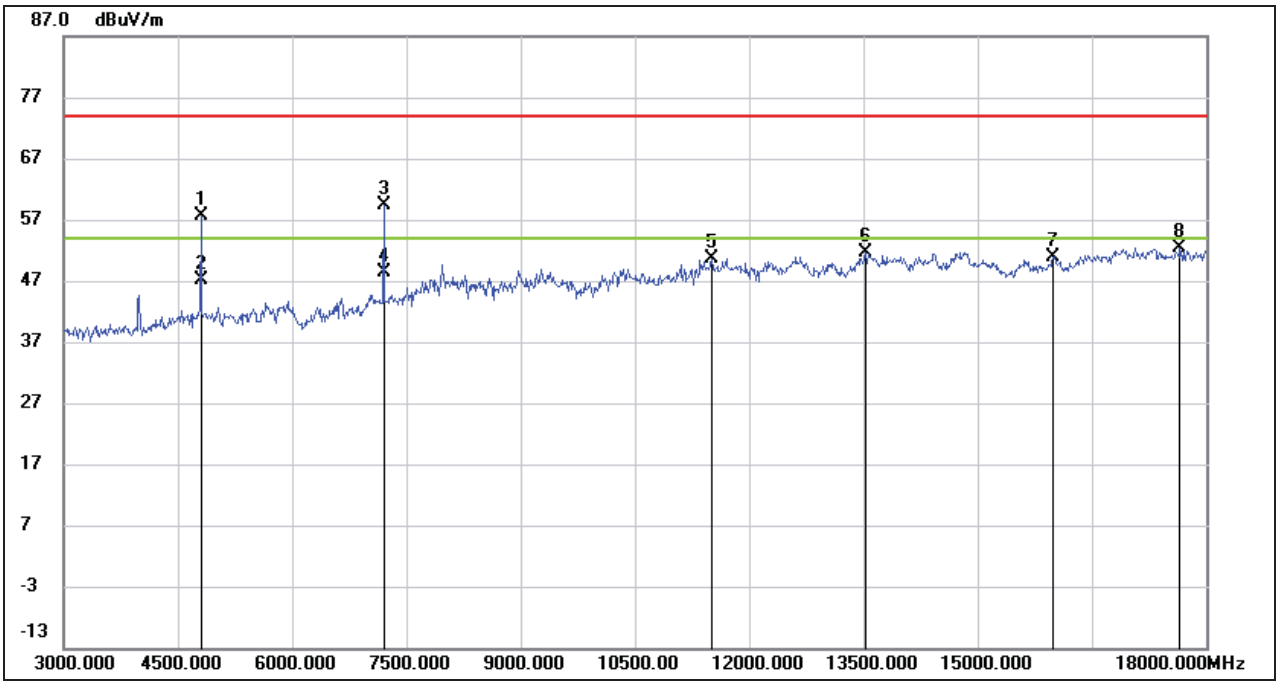
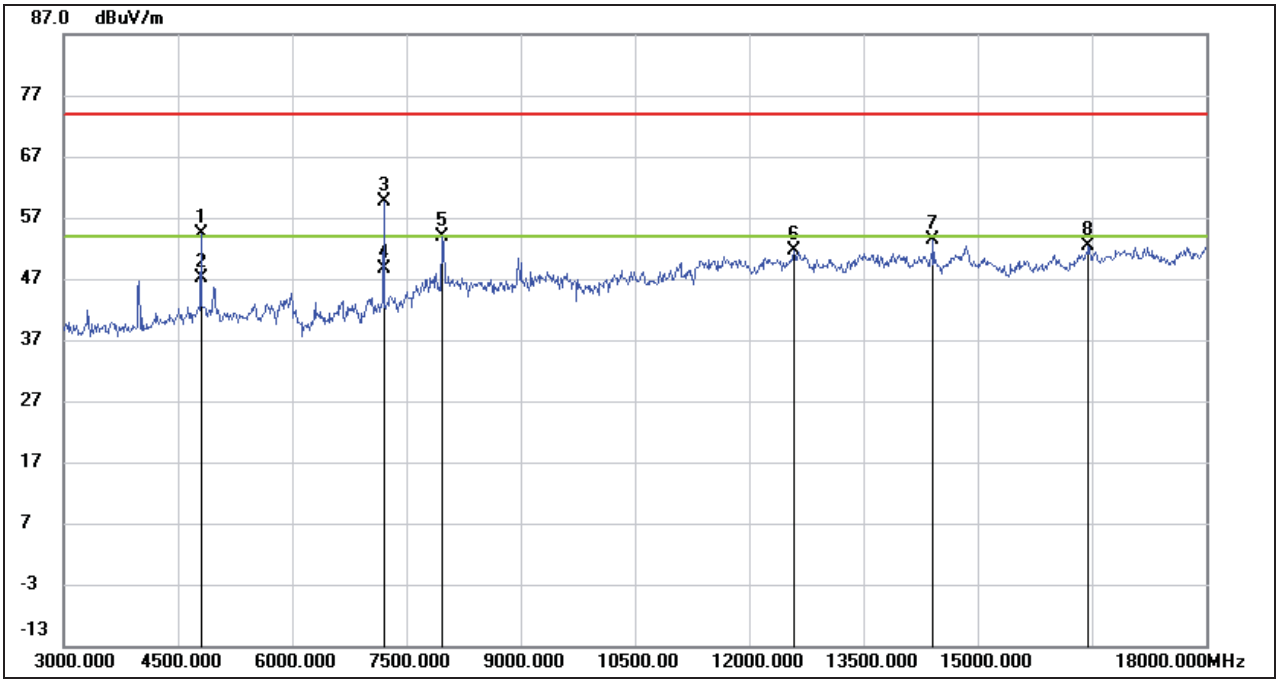
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	56.26	1.40	57.66	74.00	-16.34	peak
2	4800.000	45.70	1.40	47.10	54.00	-6.90	AVG
3	7200.000	51.99	7.36	59.35	74.00	-14.65	peak
4	7200.000	41.10	7.36	48.46	54.00	-5.54	AVG
5	11505.000	36.08	14.66	50.74	74.00	-23.26	peak
6	13530.000	34.50	17.19	51.69	74.00	-22.31	peak
7	15990.000	32.57	18.39	50.96	74.00	-23.04	peak
8	17655.000	29.16	23.14	52.30	74.00	-21.70	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

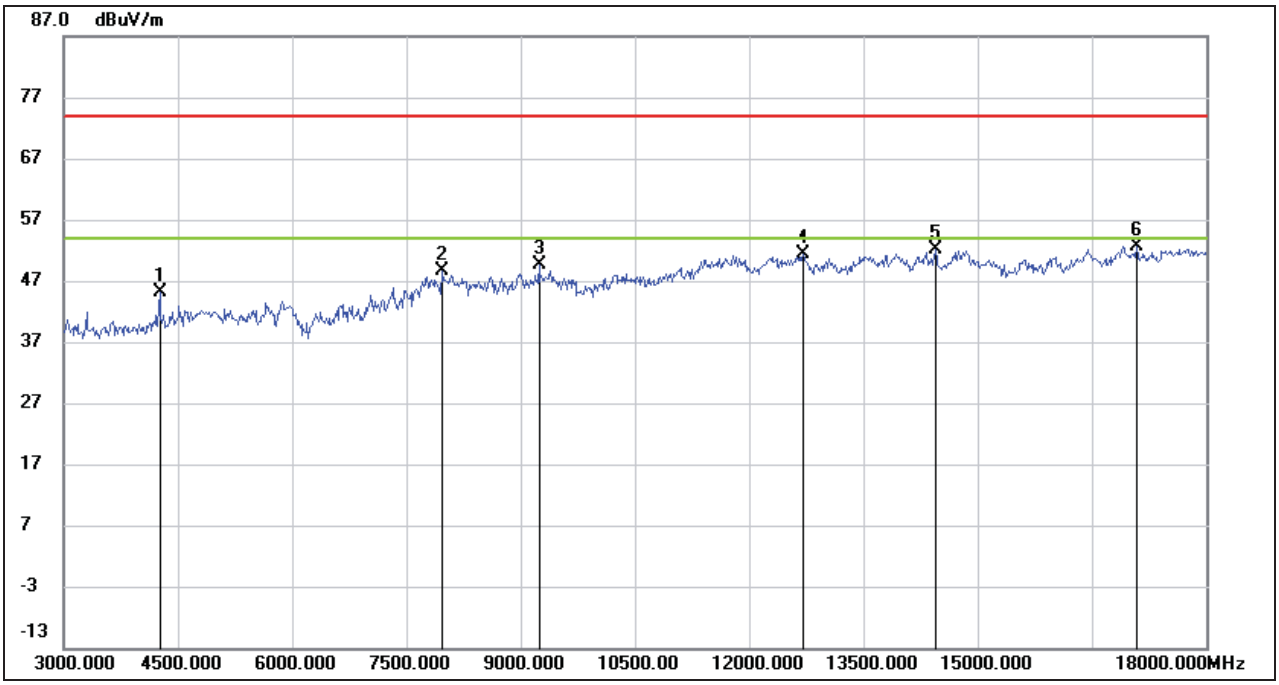
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4800.000	52.99	1.40	54.39	74.00	-19.61	peak
2	4800.000	45.79	1.40	47.19	54.00	-6.81	AVG
3	7200.000	52.15	7.36	59.51	74.00	-14.49	peak
4	7200.000	41.23	7.36	48.59	54.00	-5.41	AVG
5	7965.000	45.24	8.71	53.95	74.00	-20.05	peak
6	12585.000	35.75	15.77	51.52	74.00	-22.48	peak
7	14415.000	36.07	17.36	53.43	74.00	-20.57	peak
8	16455.000	32.68	19.68	52.36	74.00	-21.64	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

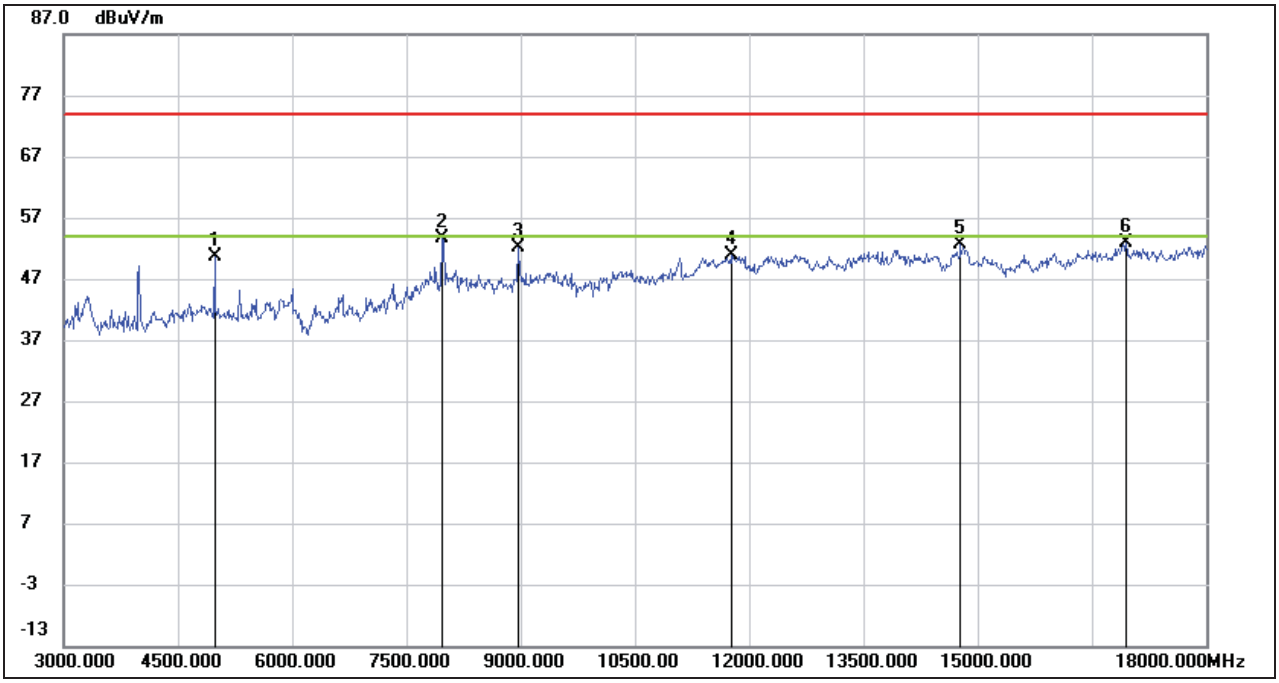
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4260.000	46.39	-1.36	45.03	74.00	-28.97	peak
2	7965.000	39.91	8.71	48.62	74.00	-25.38	peak
3	9240.000	39.47	10.10	49.57	74.00	-24.43	peak
4	12705.000	35.68	15.64	51.32	74.00	-22.68	peak
5	14445.000	34.72	17.31	52.03	74.00	-21.97	peak
6	17085.000	30.89	21.80	52.69	74.00	-21.31	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

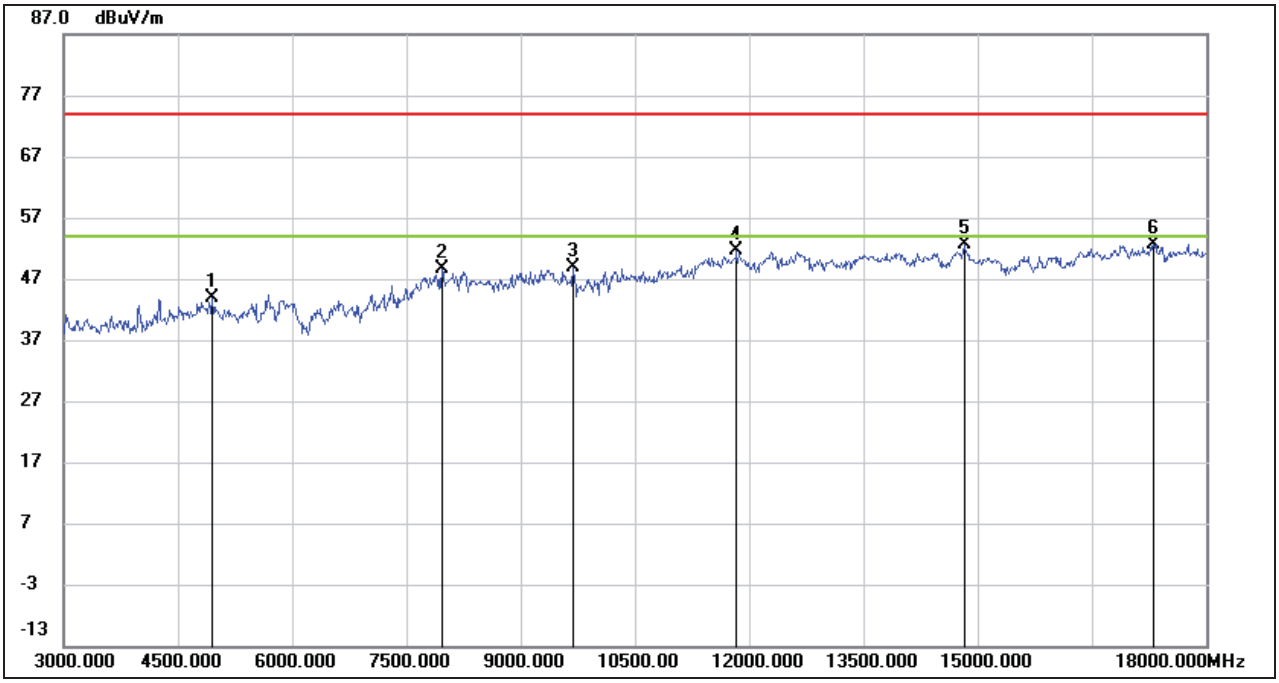
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4980.000	48.63	1.98	50.61	74.00	-23.39	peak
2	7965.000	44.84	8.71	53.55	74.00	-20.45	peak
3	8970.000	41.50	10.70	52.20	74.00	-21.80	peak
4	11760.000	35.68	15.29	50.97	74.00	-23.03	peak
5	14775.000	34.58	17.95	52.53	74.00	-21.47	peak
6	16950.000	31.48	21.41	52.89	74.00	-21.11	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

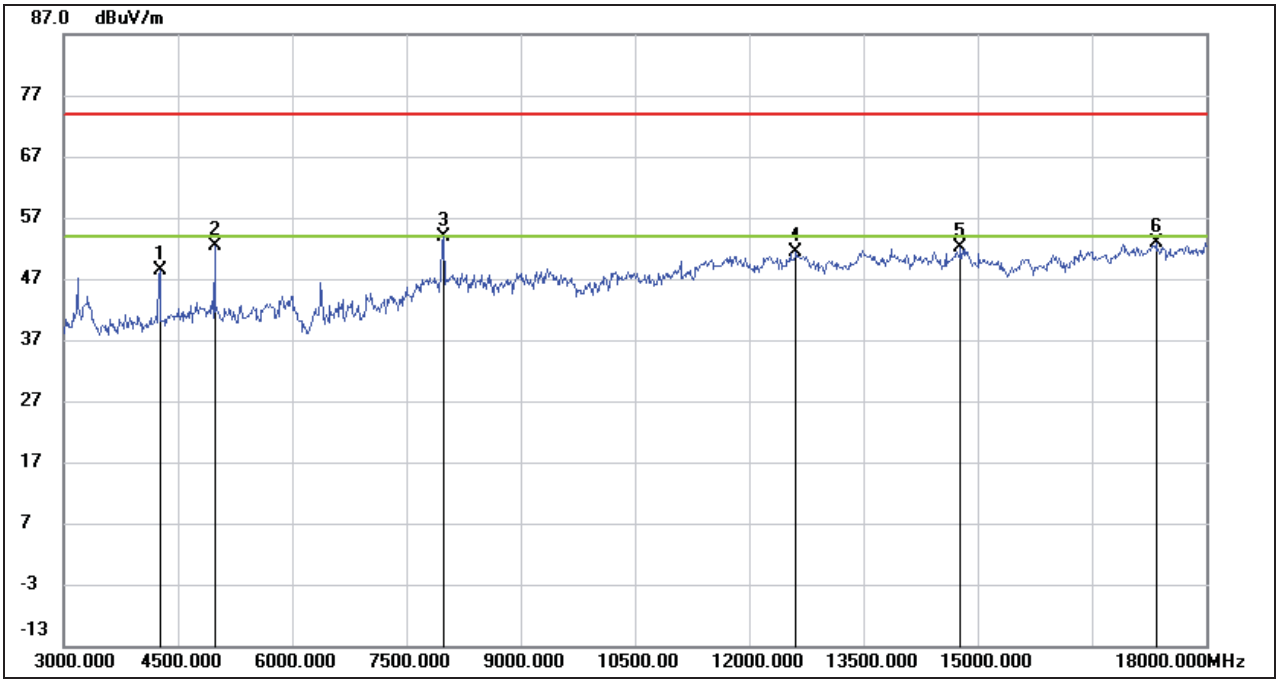
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	42.19	1.71	43.90	74.00	-30.10	peak
2	7965.000	39.81	8.71	48.52	74.00	-25.48	peak
3	9690.000	38.22	10.57	48.79	74.00	-25.21	peak
4	11835.000	36.17	15.34	51.51	74.00	-22.49	peak
5	14820.000	34.84	17.91	52.75	74.00	-21.25	peak
6	17310.000	30.05	22.54	52.59	74.00	-21.41	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

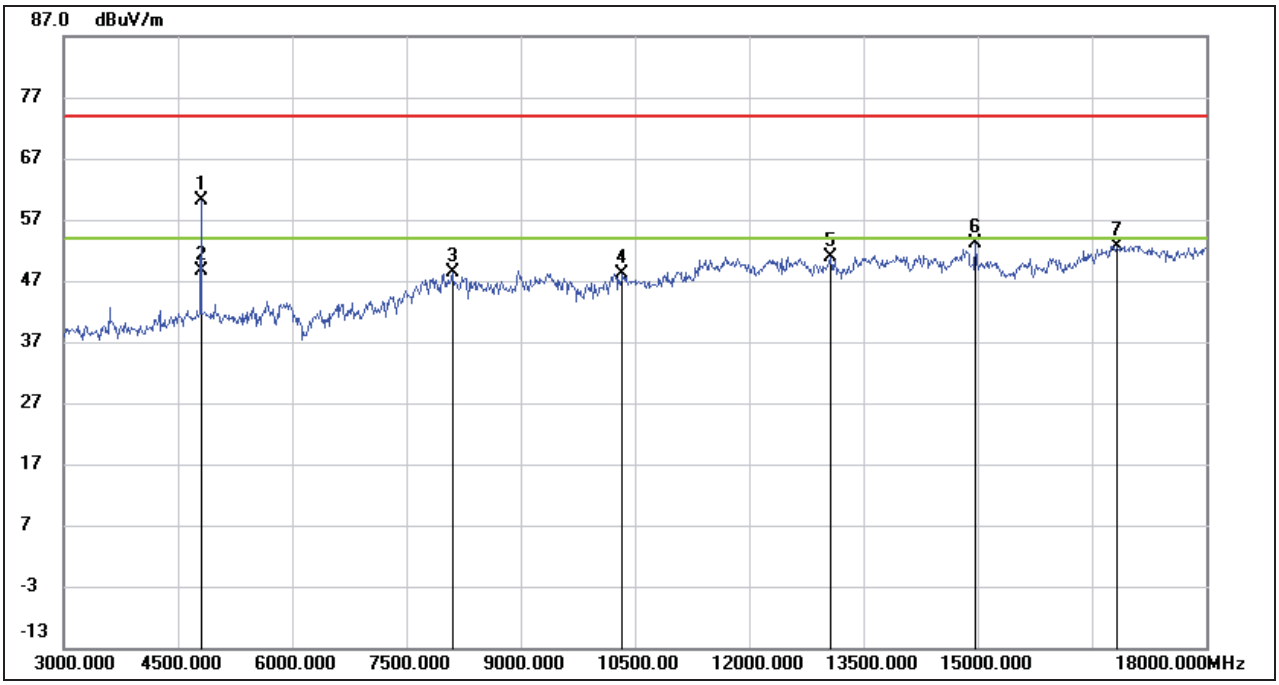


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4260.000	49.72	-1.36	48.36	74.00	-25.64	peak
2	4980.000	50.48	1.98	52.46	74.00	-21.54	peak
3	7995.000	45.12	8.65	53.77	74.00	-20.23	peak
4	12615.000	35.58	15.75	51.33	74.00	-22.67	peak
5	14775.000	34.28	17.95	52.23	74.00	-21.77	peak
6	17340.000	30.63	22.31	52.94	74.00	-21.06	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

ANT 2-AG-041533-2120

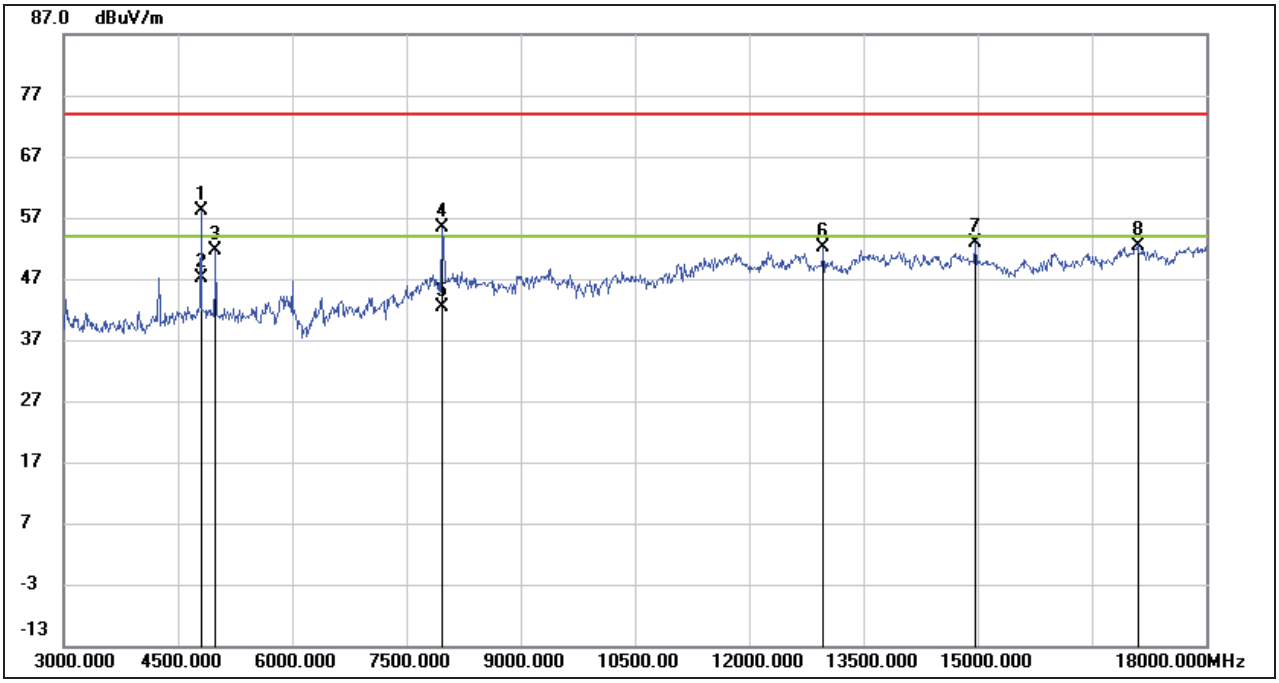
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	58.65	1.40	60.05	74.00	-13.95	peak
2	4800.000	47.32	1.40	48.72	54.00	-5.28	AVG
3	8100.000	38.13	10.18	48.31	74.00	-25.69	peak
4	10335.000	36.21	11.96	48.17	74.00	-25.83	peak
5	13065.000	34.90	16.01	50.91	74.00	-23.09	peak
6	14970.000	35.56	17.59	53.15	74.00	-20.85	peak
7	16830.000	31.77	20.97	52.74	74.00	-21.26	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

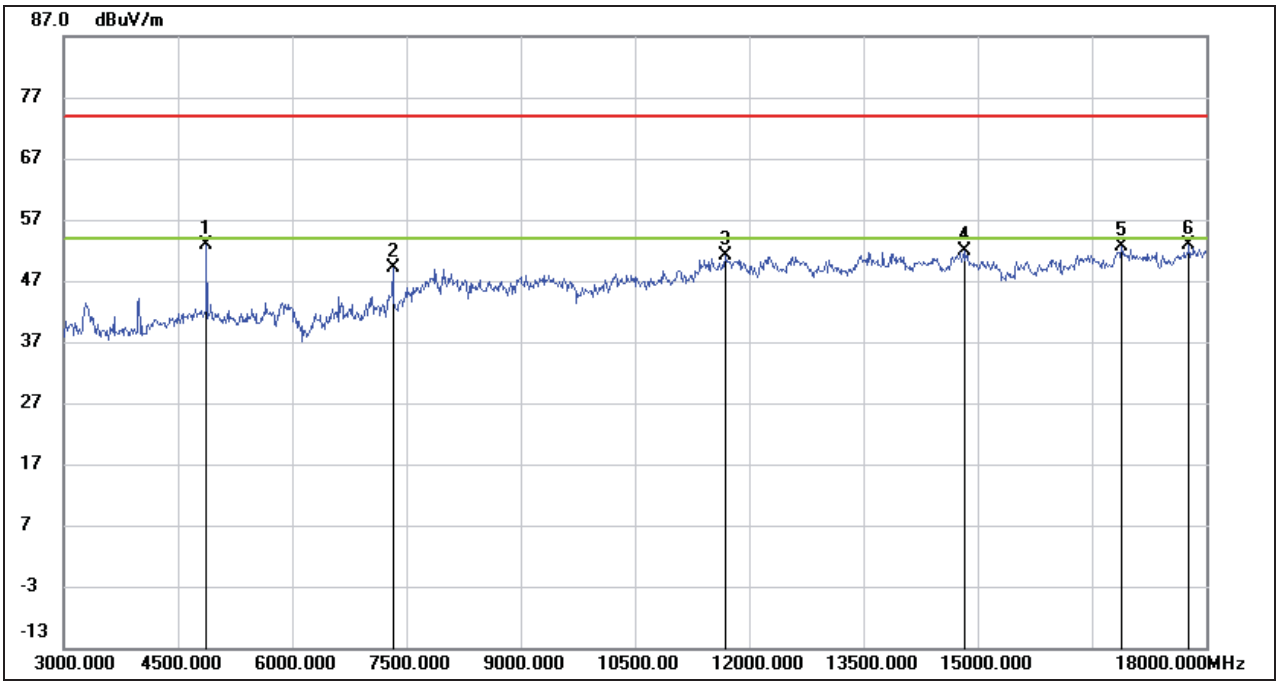
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	56.70	1.40	58.10	74.00	-15.90	peak
2	4800.000	45.84	1.40	47.24	54.00	-6.76	AVG
3	4995.000	49.56	2.10	51.66	74.00	-22.34	peak
4	7965.000	46.55	8.71	55.26	74.00	-18.74	peak
5	7965.000	33.55	8.71	42.26	54.00	-11.74	AVG
6	12975.000	35.98	16.12	52.10	74.00	-21.90	peak
7	14970.000	35.18	17.59	52.77	74.00	-21.23	peak
8	17100.000	30.60	21.90	52.50	74.00	-21.50	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

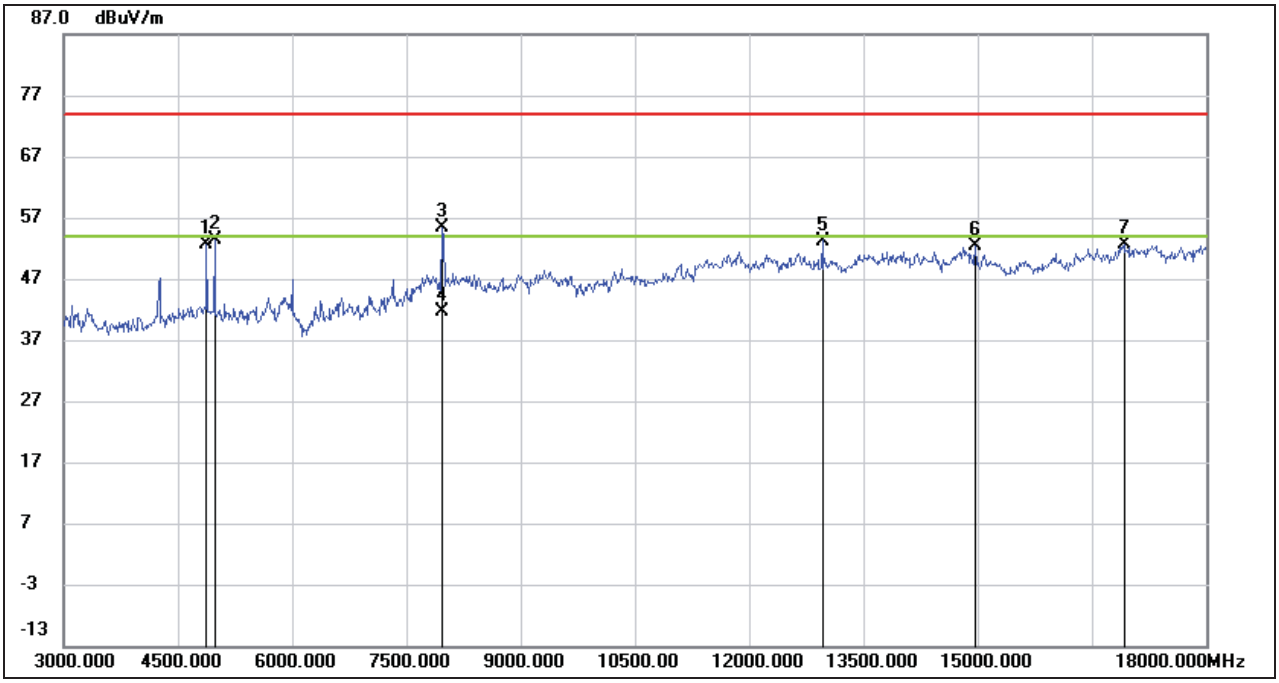
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	51.52	1.32	52.84	74.00	-21.16	peak
2	7320.000	41.73	7.28	49.01	74.00	-24.99	peak
3	11685.000	35.79	15.26	51.05	74.00	-22.95	peak
4	14820.000	34.07	17.91	51.98	74.00	-22.02	peak
5	16890.000	31.03	21.49	52.52	74.00	-21.48	peak
6	17775.000	28.93	23.91	52.84	74.00	-21.16	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

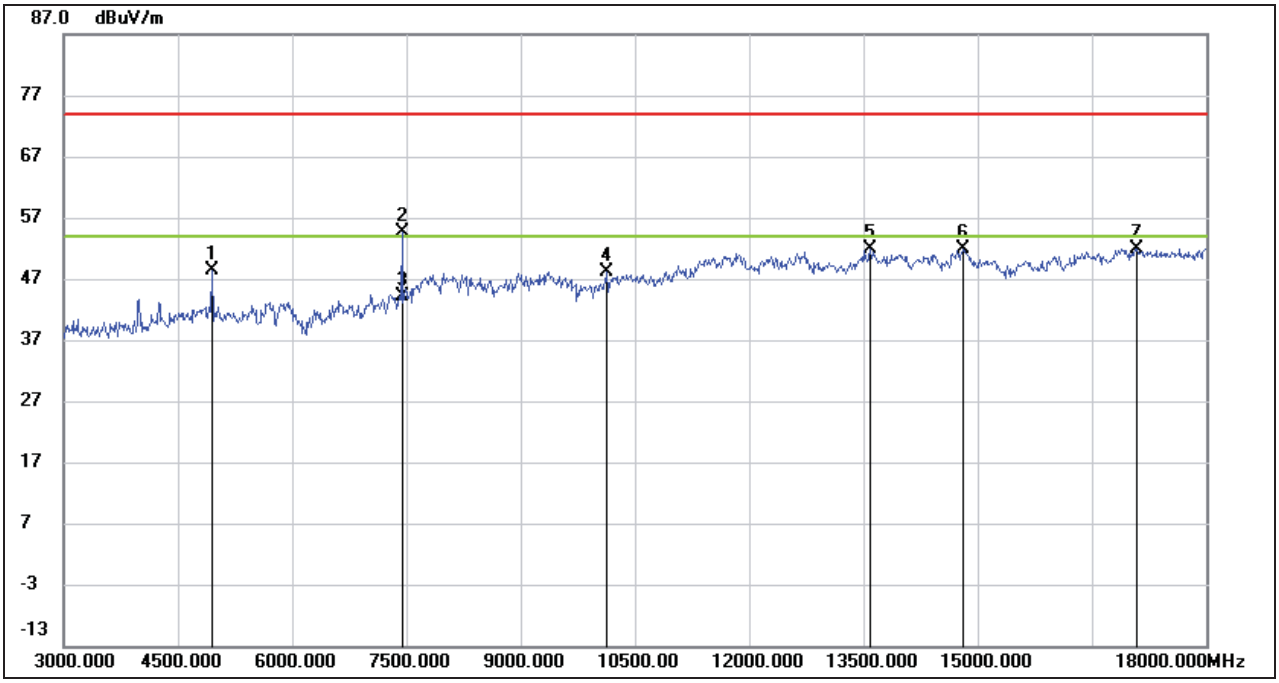
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	51.37	1.32	52.69	74.00	-21.31	peak
2	4980.000	51.34	1.98	53.32	74.00	-20.68	peak
3	7965.000	46.59	8.71	55.30	74.00	-18.70	peak
4	7965.000	32.98	8.71	41.69	54.00	-12.31	AVG
5	12960.000	37.07	16.18	53.25	74.00	-20.75	peak
6	14970.000	34.67	17.59	52.26	74.00	-21.74	peak
7	16920.000	31.11	21.51	52.62	74.00	-21.38	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

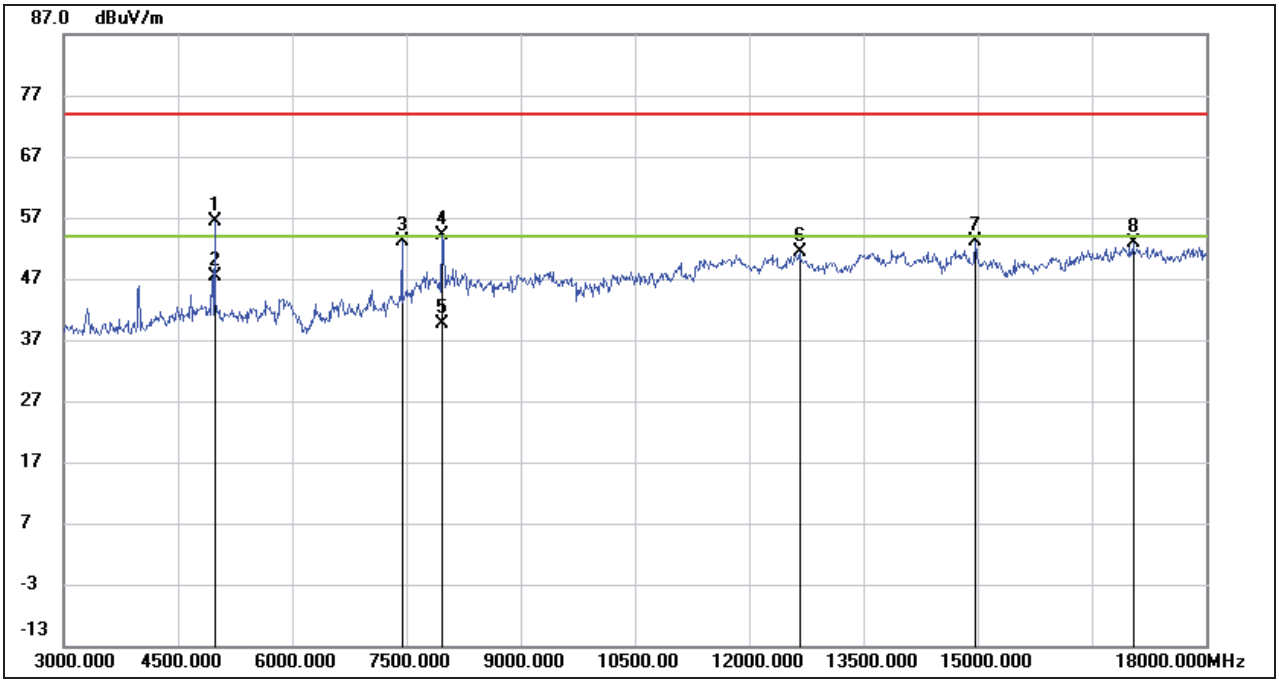
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	46.62	1.71	48.33	74.00	-25.67	peak
2	7440.000	46.49	8.13	54.62	74.00	-19.38	peak
3	7440.000	36.02	8.13	44.15	54.00	-9.85	AVG
4	10125.000	36.95	11.19	48.14	74.00	-25.86	peak
5	13590.000	34.76	17.11	51.87	74.00	-22.13	peak
6	14805.000	33.86	18.00	51.86	74.00	-22.14	peak
7	17085.000	30.19	21.80	51.99	74.00	-22.01	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

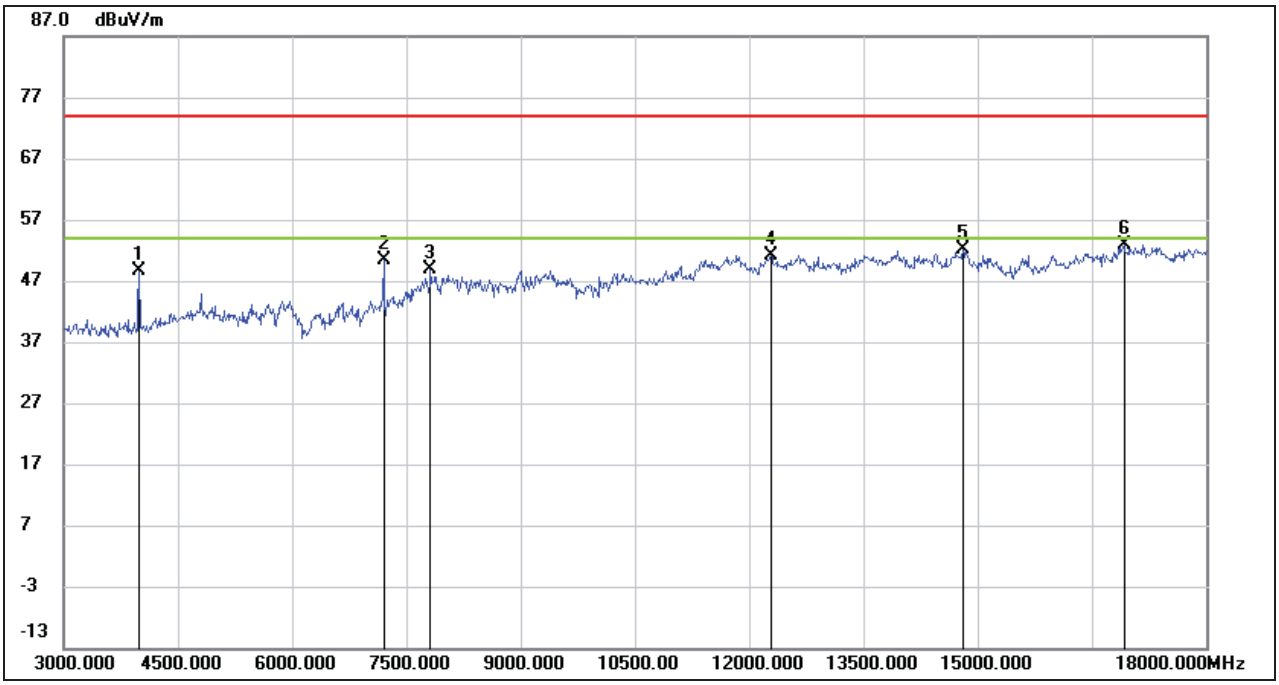


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4980.000	54.51	1.98	56.49	74.00	-17.51	peak
2	4980.000	45.28	1.98	47.26	54.00	-6.74	AVG
3	7440.000	44.90	8.13	53.03	74.00	-20.97	peak
4	7965.000	45.42	8.71	54.13	74.00	-19.87	peak
5	7965.000	30.94	8.71	39.65	54.00	-14.35	AVG
6	12660.000	35.68	15.69	51.37	74.00	-22.63	peak
7	14970.000	35.54	17.59	53.13	74.00	-20.87	peak
8	17040.000	31.36	21.50	52.86	74.00	-21.14	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

ANT 3-W-M-D-B-N-0-0230

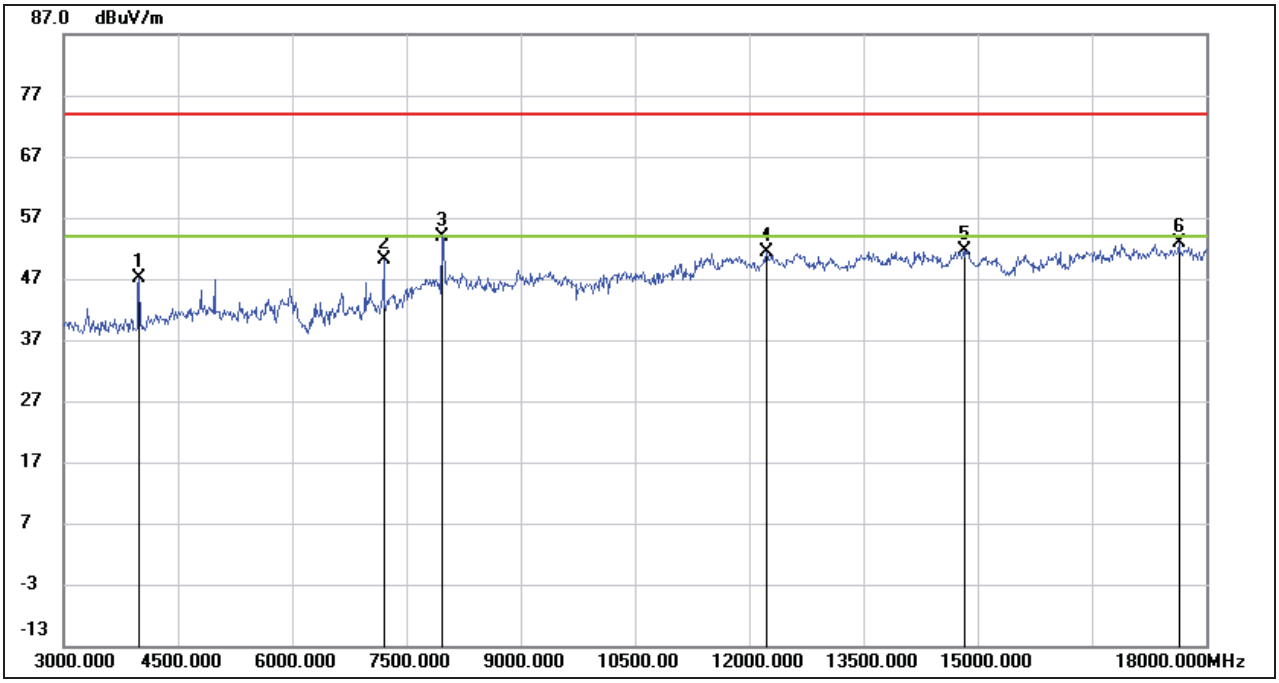
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	51.09	-2.51	48.58	74.00	-25.42	peak
2	7200.000	42.93	7.36	50.29	74.00	-23.71	peak
3	7815.000	39.49	9.28	48.77	74.00	-25.23	peak
4	12285.000	35.16	16.08	51.24	74.00	-22.76	peak
5	14805.000	34.01	18.00	52.01	74.00	-21.99	peak
6	16920.000	31.34	21.51	52.85	74.00	-21.15	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

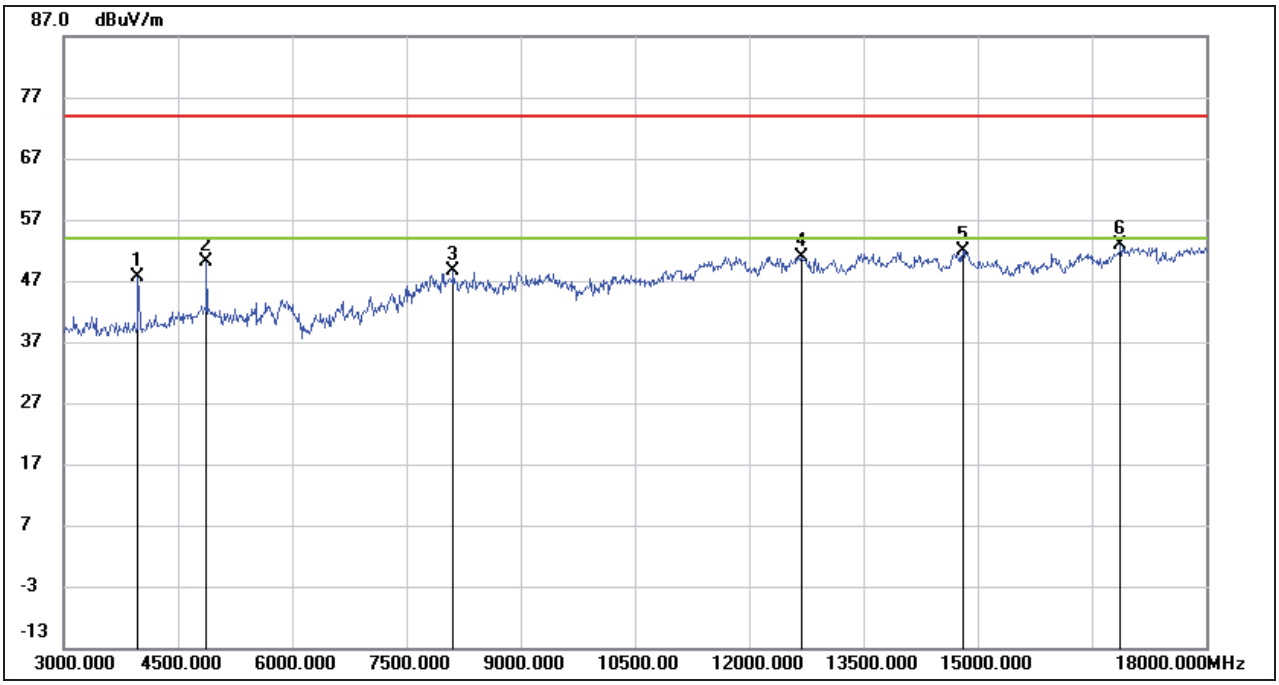
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	49.58	-2.51	47.07	74.00	-26.93	peak
2	7200.000	42.73	7.36	50.09	74.00	-23.91	peak
3	7965.000	45.11	8.71	53.82	74.00	-20.18	peak
4	12225.000	35.49	15.99	51.48	74.00	-22.52	peak
5	14820.000	33.64	17.91	51.55	74.00	-22.45	peak
6	17640.000	29.93	23.03	52.96	74.00	-21.04	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

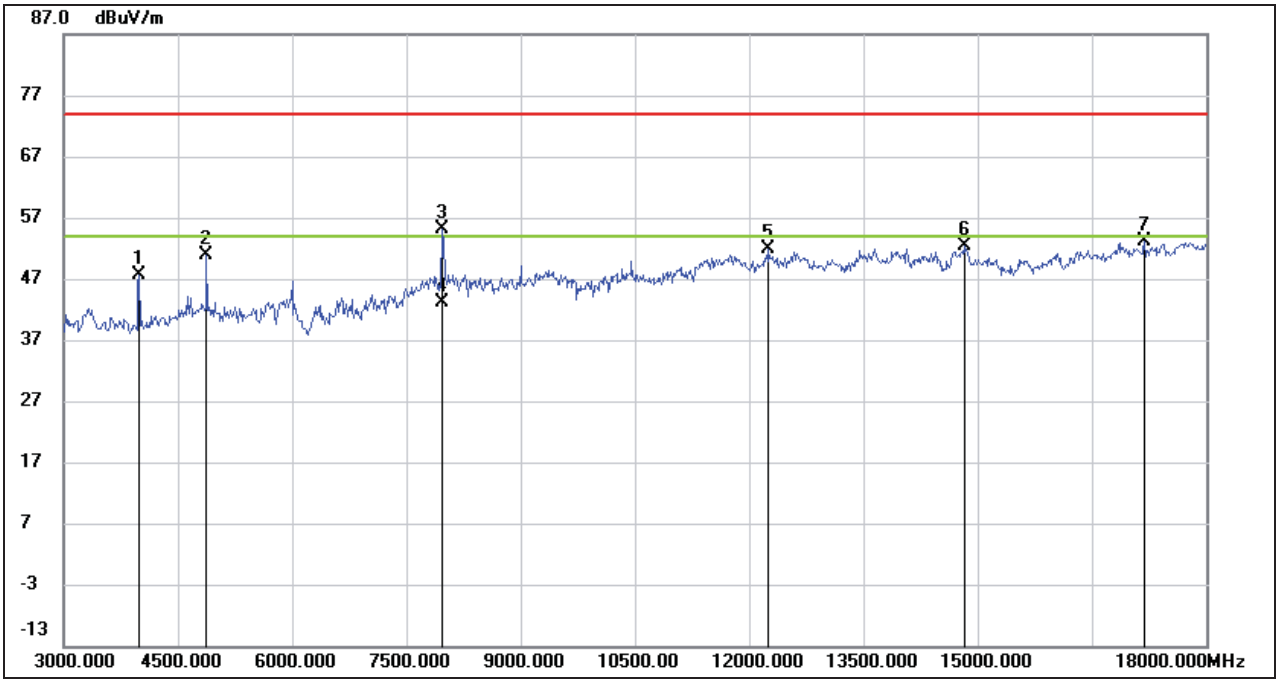
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	50.27	-2.57	47.70	74.00	-26.30	peak
2	4875.000	48.79	1.32	50.11	74.00	-23.89	peak
3	8115.000	38.43	10.13	48.56	74.00	-25.44	peak
4	12690.000	35.34	15.64	50.98	74.00	-23.02	peak
5	14805.000	33.96	18.00	51.96	74.00	-22.04	peak
6	16875.000	31.57	21.35	52.92	74.00	-21.08	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

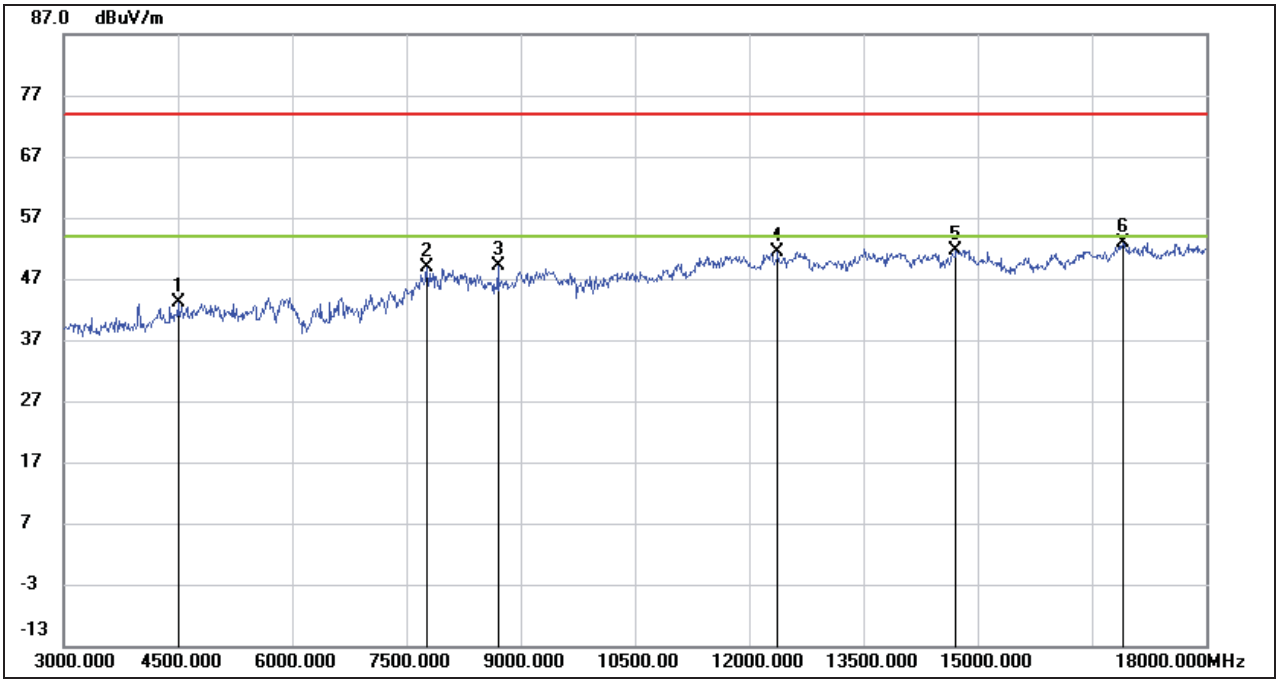
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3990.000	50.09	-2.51	47.58	74.00	-26.42	peak
2	4875.000	49.64	1.32	50.96	74.00	-23.04	peak
3	7965.000	46.45	8.71	55.16	74.00	-18.84	peak
4	7965.000	34.38	8.71	43.09	54.00	-10.91	AVG
5	12255.000	35.90	16.03	51.93	74.00	-22.07	peak
6	14820.000	34.35	17.91	52.26	74.00	-21.74	peak
7	17190.000	31.13	21.98	53.11	74.00	-20.89	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

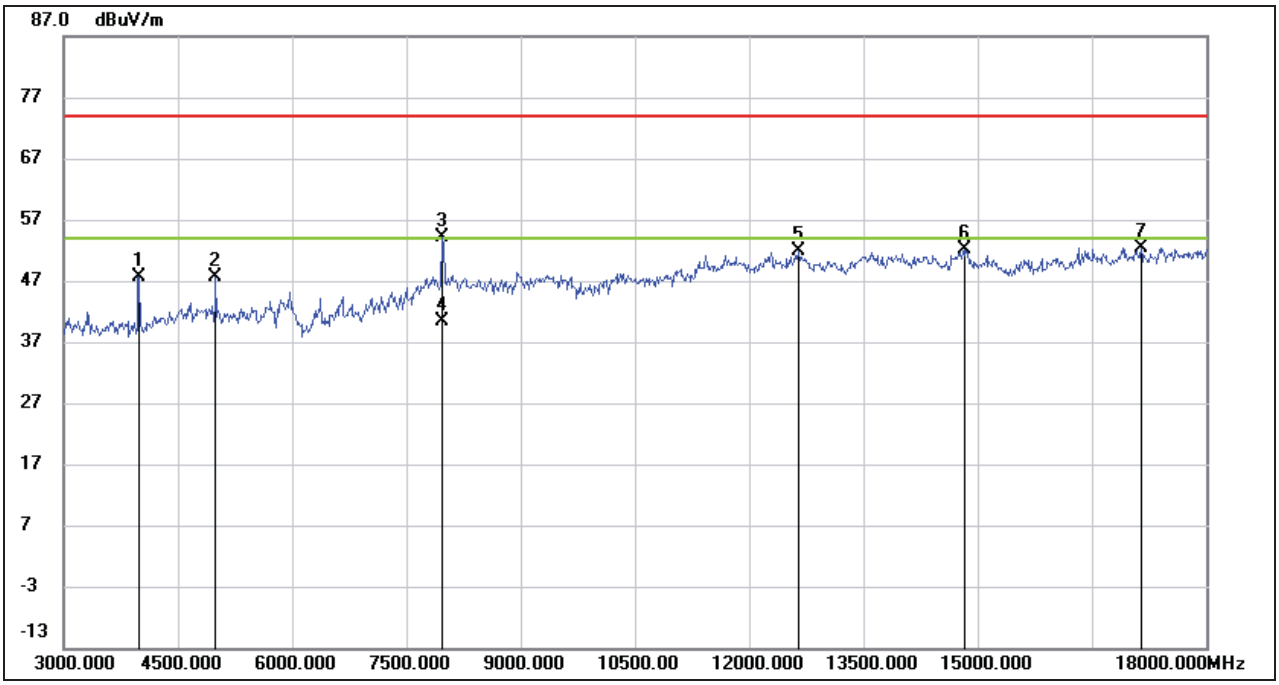
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4500.000	43.61	-0.36	43.25	74.00	-30.75	peak
2	7770.000	39.90	9.09	48.99	74.00	-25.01	peak
3	8700.000	40.20	9.03	49.23	74.00	-24.77	peak
4	12375.000	35.29	15.99	51.28	74.00	-22.72	peak
5	14715.000	33.99	17.74	51.73	74.00	-22.27	peak
6	16905.000	31.39	21.55	52.94	74.00	-21.06	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



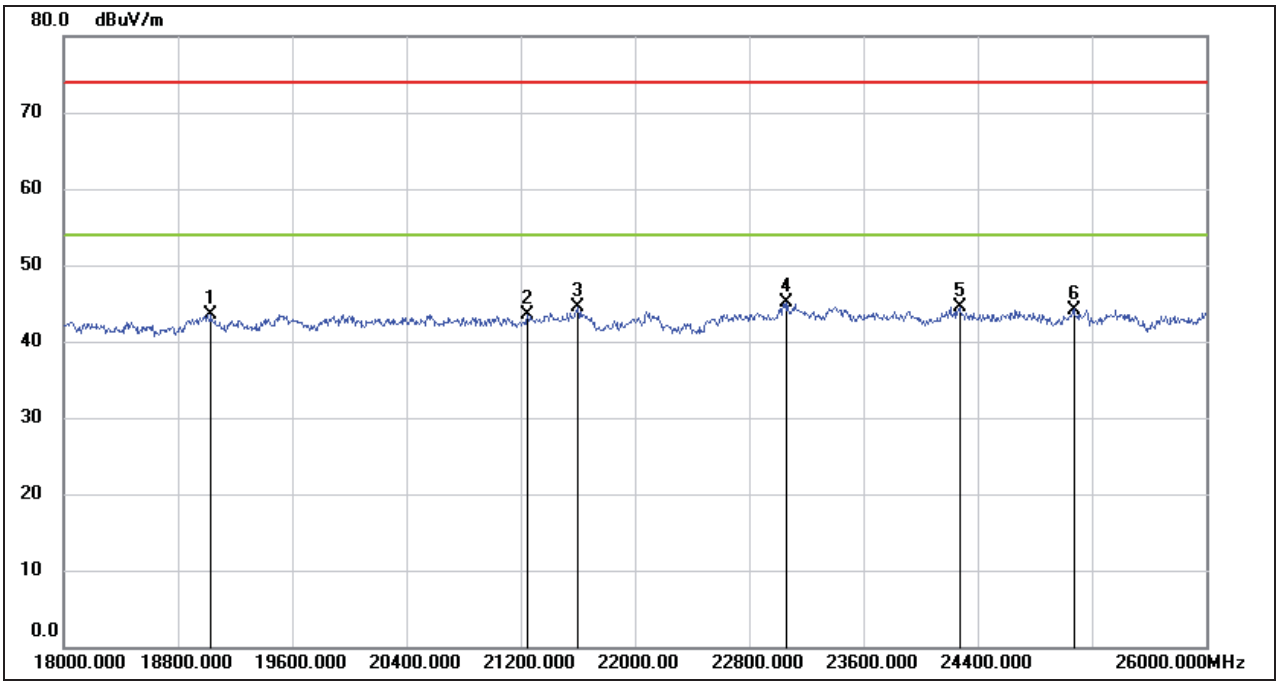
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	50.26	-2.51	47.75	74.00	-26.25	peak
2	4995.000	45.52	2.10	47.62	74.00	-26.38	peak
3	7965.000	45.48	8.71	54.19	74.00	-19.81	peak
4	7965.000	31.59	8.71	40.30	54.00	-13.70	AVG
5	12645.000	36.05	15.71	51.76	74.00	-22.24	peak
6	14820.000	34.32	17.91	52.23	74.00	-21.77	peak
7	17145.000	30.50	21.94	52.44	74.00	-21.56	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV 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 7.1.
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.

8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. LE 1M MODE

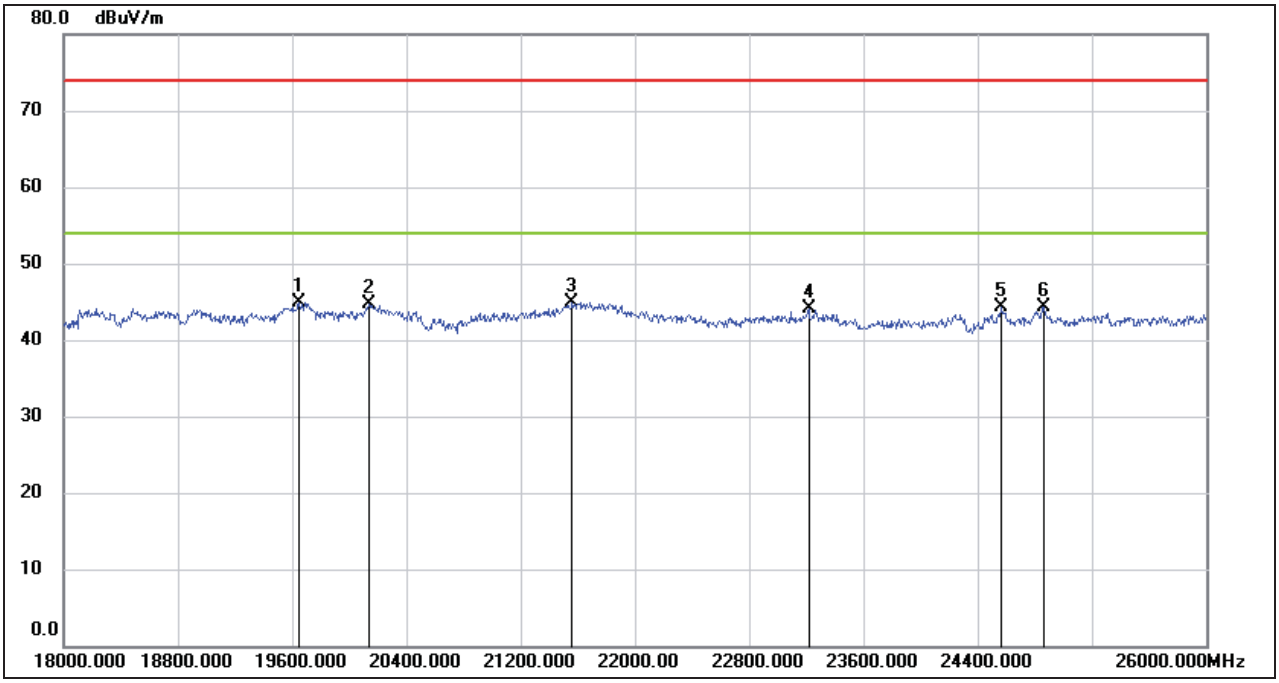
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19032.000	48.81	-5.27	43.54	74.00	-30.46	peak
2	21248.000	48.29	-4.77	43.52	74.00	-30.48	peak
3	21600.000	49.02	-4.54	44.48	74.00	-29.52	peak
4	23064.000	48.49	-3.42	45.07	74.00	-28.93	peak
5	24272.000	47.25	-2.79	44.46	74.00	-29.54	peak
6	25072.000	46.17	-1.97	44.20	74.00	-29.80	peak

Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19648.000	50.23	-5.37	44.86	74.00	-29.14	peak
2	20136.000	50.17	-5.54	44.63	74.00	-29.37	peak
3	21560.000	49.49	-4.60	44.89	74.00	-29.11	peak
4	23216.000	47.51	-3.38	44.13	74.00	-29.87	peak
5	24568.000	46.60	-2.33	44.27	74.00	-29.73	peak
6	24864.000	46.53	-2.23	44.30	74.00	-29.70	peak

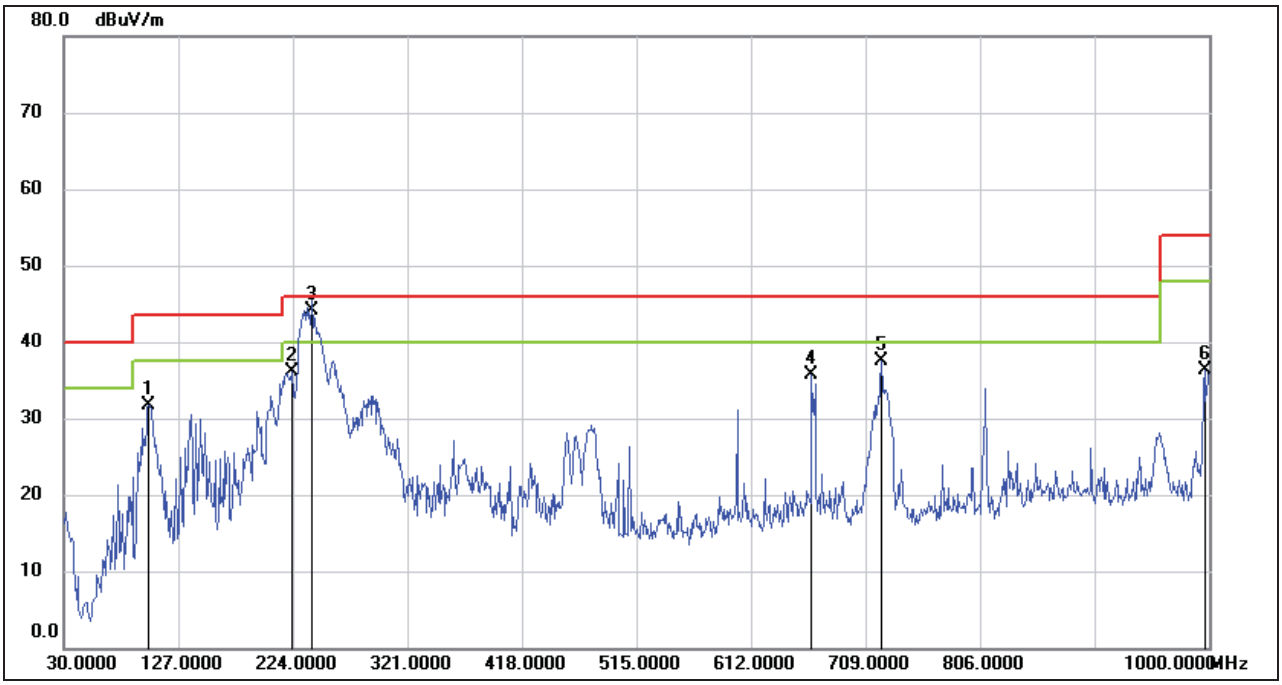
Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

Note: All the modes have been tested, only the worst data was recorded in the report.

8.5. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.5.1. LE 1M MODE

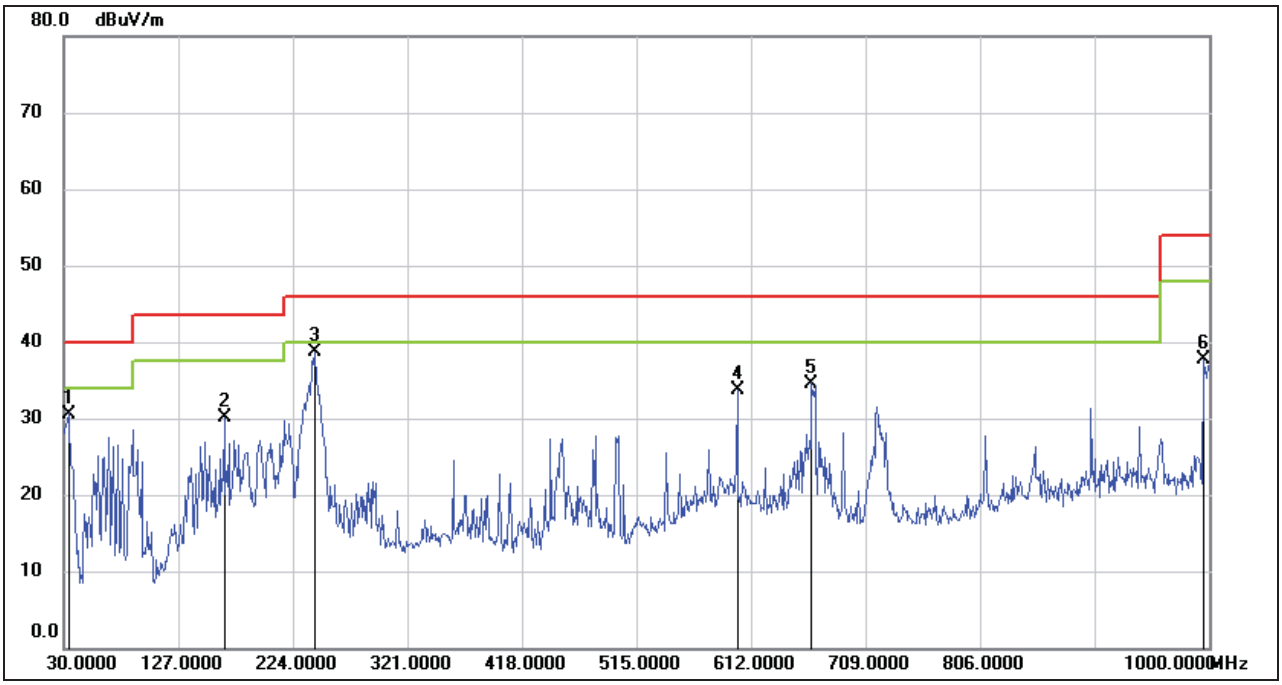
SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	101.7800	52.77	-21.00	31.77	43.50	-11.73	QP
2	223.0300	54.44	-18.32	36.12	46.00	-9.88	QP
3	240.0000	63.29	-19.18	44.11	46.00	-1.89	QP
4	663.4099	44.33	-8.66	35.67	46.00	-10.33	QP
5	722.5800	45.52	-8.08	37.44	46.00	-8.56	QP
6	996.1200	40.53	-4.20	36.33	54.00	-17.67	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	49.91	-19.31	30.60	40.00	-9.40	QP
2	165.8000	47.55	-17.51	30.04	43.50	-13.46	QP
3	242.4300	57.86	-19.12	38.74	46.00	-7.26	QP
4	600.3600	43.31	-9.54	33.77	46.00	-12.23	QP
5	663.4099	43.26	-8.66	34.60	46.00	-11.40	QP
6	995.1500	41.88	-4.20	37.68	54.00	-16.32	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

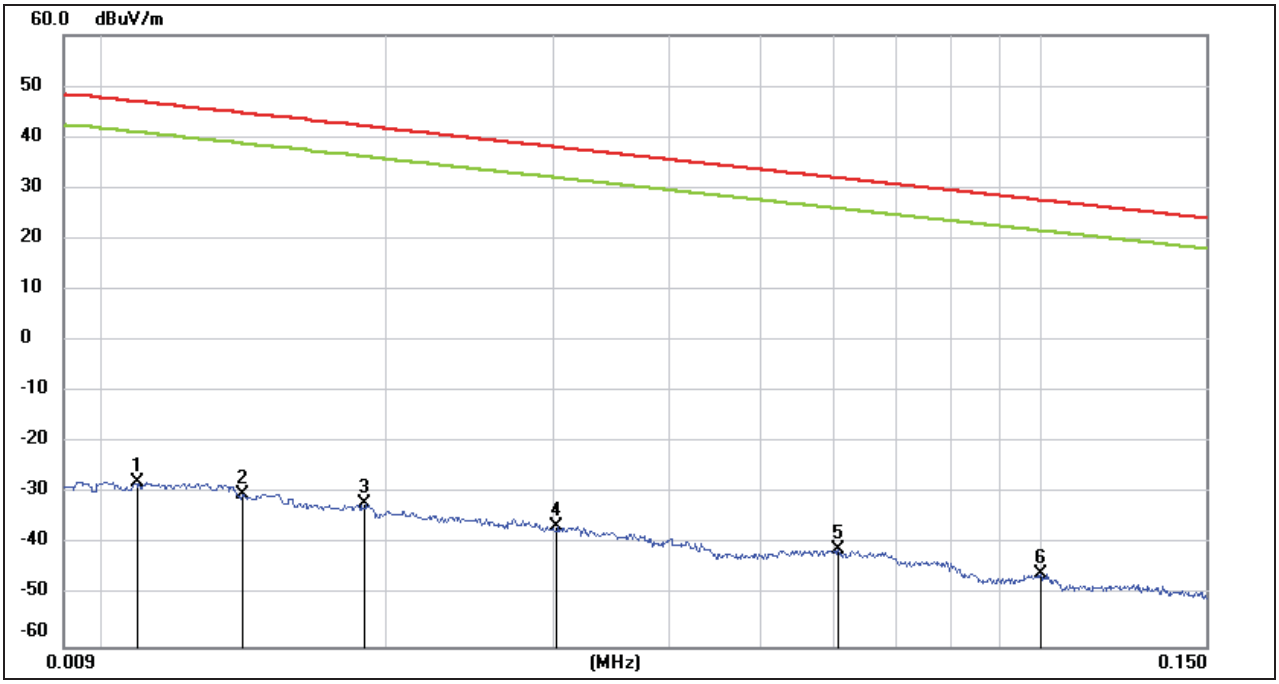
Note: All the modes have been tested, only the worst data was recorded in the report.

8.6. SPURIOUS EMISSIONS BELOW 30 MHz

8.6.1. LE 1M MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz~ 150 kHz



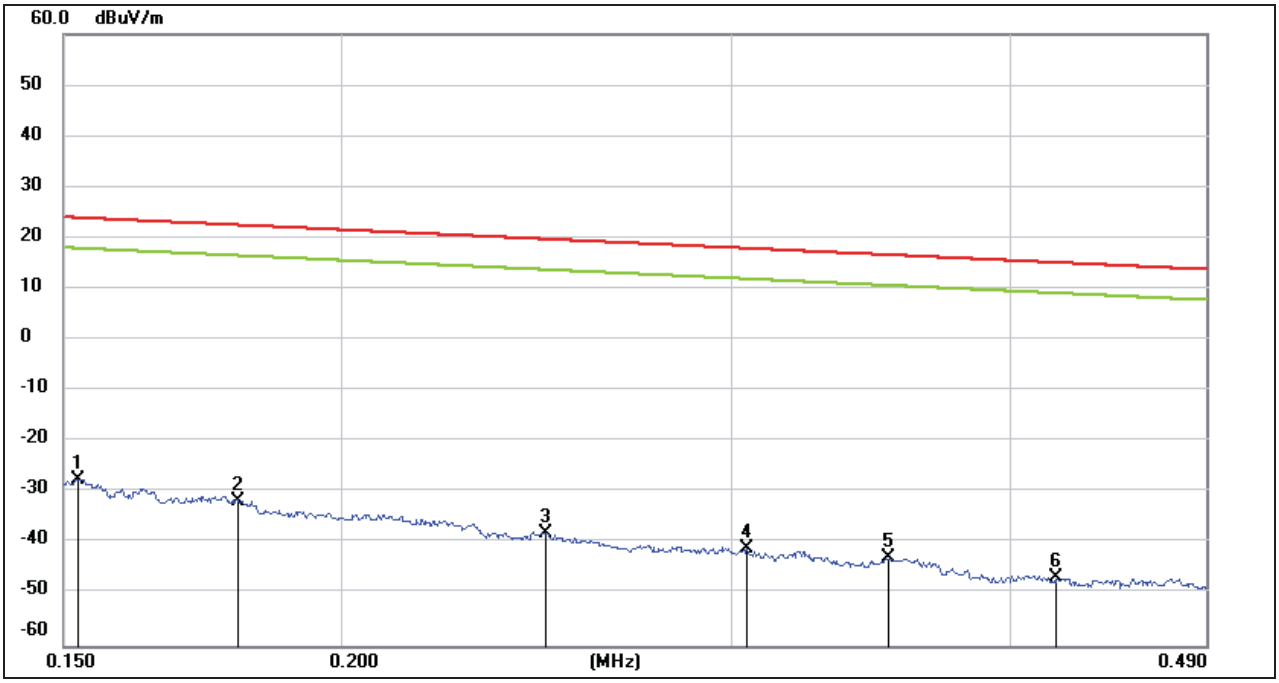
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0108	73.51	-101.39	-27.88	46.93	-79.38	-4.57	-74.81	peak
2	0.0140	71.25	-101.38	-30.13	44.68	-81.63	-6.82	-74.81	peak
3	0.0189	69.37	-101.35	-31.98	42.07	-83.48	-9.43	-74.05	peak
4	0.0303	64.85	-101.39	-36.54	37.97	-88.04	-13.53	-74.51	peak
5	0.0606	60.45	-101.52	-41.07	31.95	-92.57	-19.55	-73.02	peak
6	0.1000	56.17	-101.80	-45.63	27.6	-97.13	-23.90	-73.23	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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.

150 kHz ~ 490 kHz



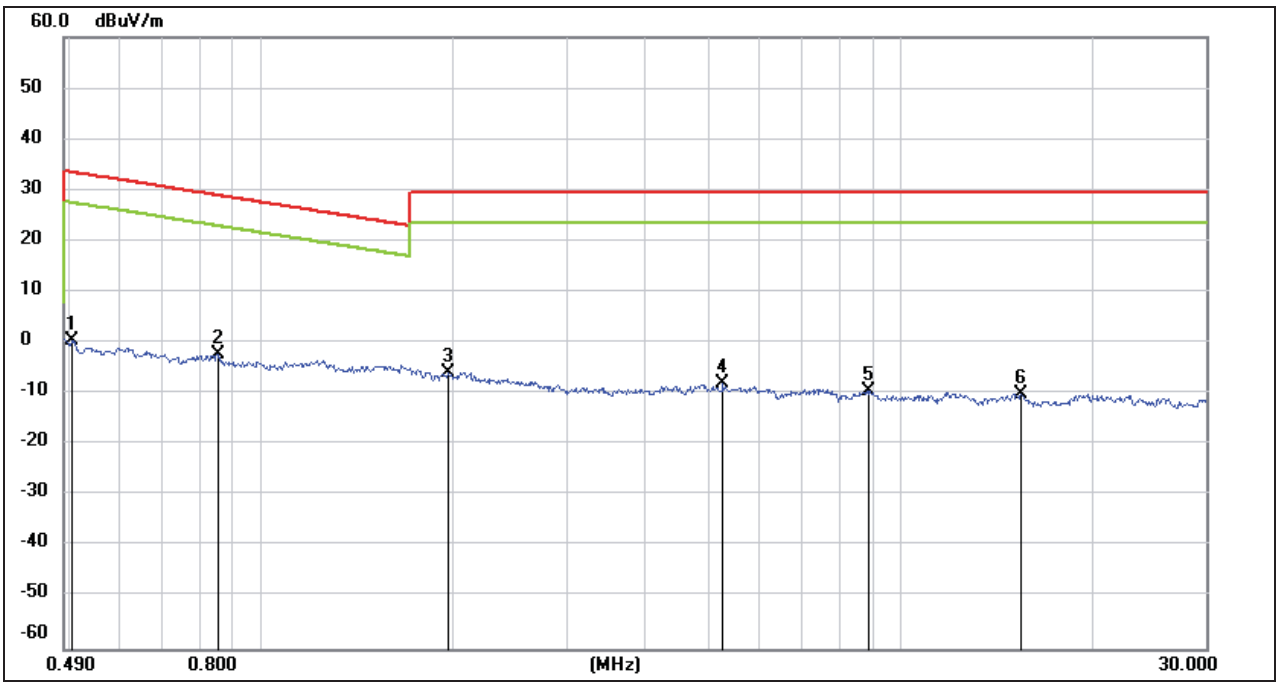
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1524	74.30	-101.63	-27.33	23.94	-78.83	-27.56	-51.27	peak
2	0.1800	70.15	-101.68	-31.53	22.5	-83.03	-29.00	-54.03	peak
3	0.2472	63.95	-101.80	-37.85	19.74	-89.35	-31.76	-57.59	peak
4	0.3047	60.84	-101.86	-41.02	17.92	-92.52	-33.58	-58.94	peak
5	0.3526	59.01	-101.91	-42.9	16.66	-94.40	-34.84	-59.56	peak
6	0.4193	55.18	-101.98	-46.8	15.15	-98.30	-36.35	-61.95	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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.

490 kHz ~ 30 MHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5039	62.43	-62.07	0.36	33.56	-51.14	-17.94	-33.20	peak
2	0.8538	59.84	-62.18	-2.34	28.98	-53.84	-22.52	-31.32	peak
3	1.9516	56.11	-61.84	-5.73	29.54	-57.23	-21.96	-35.27	peak
4	5.2705	53.54	-61.45	-7.91	29.54	-59.41	-21.96	-37.45	peak
5	8.9298	51.55	-60.94	-9.39	29.54	-60.89	-21.96	-38.93	peak
6	15.4221	51.02	-61.00	-9.98	29.54	-61.48	-21.96	-39.52	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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.

Note: All the modes have been tested, only the worst data was recorded in the report.

9. AC POWER LINE CONDUCTED EMISSIONS

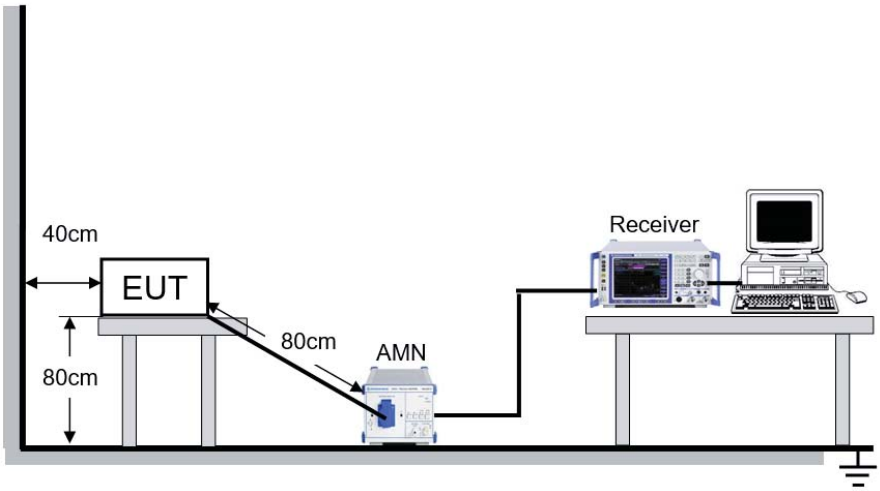
LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

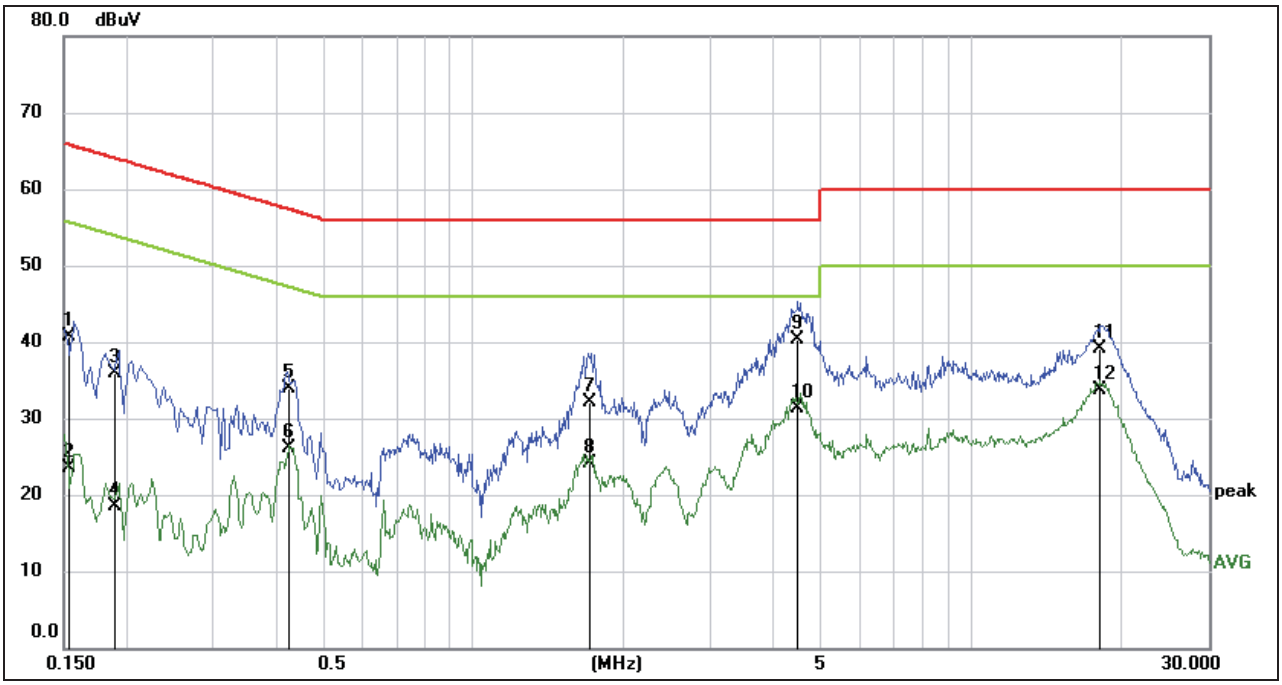
TEST ENVIRONMENT

Temperature	21.5 °C	Relative Humidity	48.1%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

9.1. LE 1M MODE

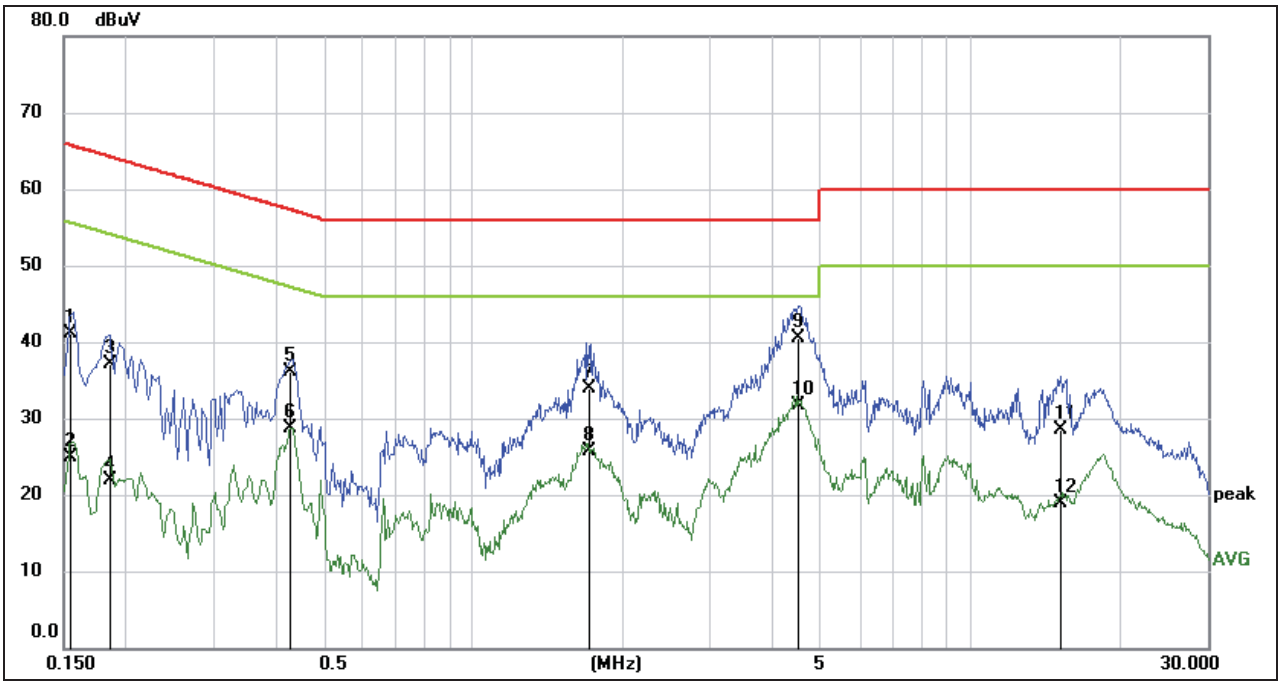
LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1532	31.15	9.59	40.74	65.82	-25.08	QP
2	0.1532	13.99	9.59	23.58	55.82	-32.24	AVG
3	0.1904	26.25	9.59	35.84	64.02	-28.18	QP
4	0.1904	8.92	9.59	18.51	54.02	-35.51	AVG
5	0.4256	24.21	9.60	33.81	57.34	-23.53	QP
6	0.4256	16.54	9.60	26.14	47.34	-21.20	AVG
7	1.7165	22.42	9.62	32.04	56.00	-23.96	QP
8	1.7165	14.45	9.62	24.07	46.00	-21.93	AVG
9	4.4960	30.64	9.61	40.25	56.00	-15.75	QP
10	4.4960	21.73	9.61	31.34	46.00	-14.66	AVG
11	18.2113	29.27	9.77	39.04	60.00	-20.96	QP
12	18.2113	24.01	9.77	33.78	50.00	-16.22	AVG

Note: 1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1544	31.47	9.59	41.06	65.76	-24.70	QP
2	0.1544	15.27	9.59	24.86	55.76	-30.90	AVG
3	0.1861	27.47	9.59	37.06	64.21	-27.15	QP
4	0.1861	12.38	9.59	21.97	54.21	-32.24	AVG
5	0.4298	26.49	9.60	36.09	57.26	-21.17	QP
6	0.4298	19.07	9.60	28.67	47.26	-18.59	AVG
7	1.7210	24.19	9.62	33.81	56.00	-22.19	QP
8	1.7210	16.17	9.62	25.79	46.00	-20.21	AVG
9	4.4975	30.91	9.61	40.52	56.00	-15.48	QP
10	4.4975	22.03	9.61	31.64	46.00	-14.36	AVG
11	15.1774	18.91	9.65	28.56	60.00	-31.44	QP
12	15.1774	9.22	9.65	18.87	50.00	-31.13	AVG

Note: 1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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 §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.

RESULTS

Complies

Appendix

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LE 1M	Ant1	2402	0.702	2401.664	2402.366	0.5	PASS
		2440	0.693	2439.661	2440.354	0.5	PASS
		2480	0.702	2479.667	2480.369	0.5	PASS
LE 2M	Ant1	2402	1.180	2401.420	2402.600	0.5	PASS
		2440	1.240	2439.360	2440.600	0.5	PASS
		2480	1.200	2479.384	2480.584	0.5	PASS

Test Graphs

LE 1M_Ant1_2402

LE 1M_Ant1_2440

LE 1M_Ant1_2480

LE 2M_Ant1_2402

LE 2M_Ant1_2440

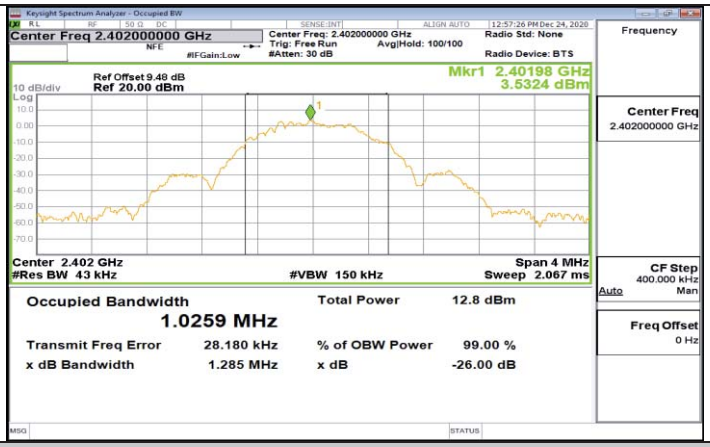
LE 2M_Ant1_2480

Appendix B: Occupied Channel Bandwidth

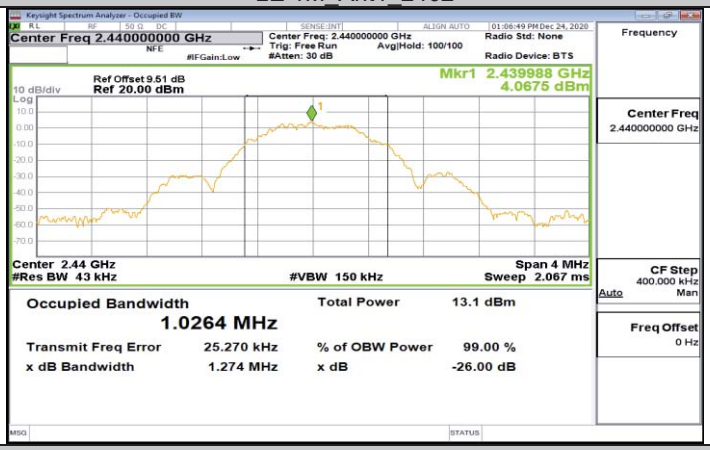
Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LE 1M	Ant1	2402	1.0259	2401.515	2402.541	---	PASS
		2440	1.0264	2439.512	2440.538	---	PASS
		2480	1.0288	2479.512	2480.541	---	PASS
LE 2M	Ant1	2402	2.0576	2401.005	2403.063	---	PASS
		2440	2.0557	2439.003	2441.059	---	PASS
		2480	2.0440	2479.009	2481.053	---	PASS

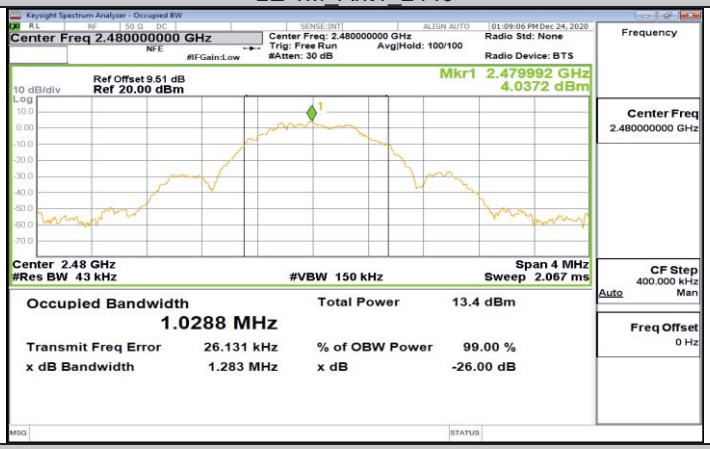
Test Graphs



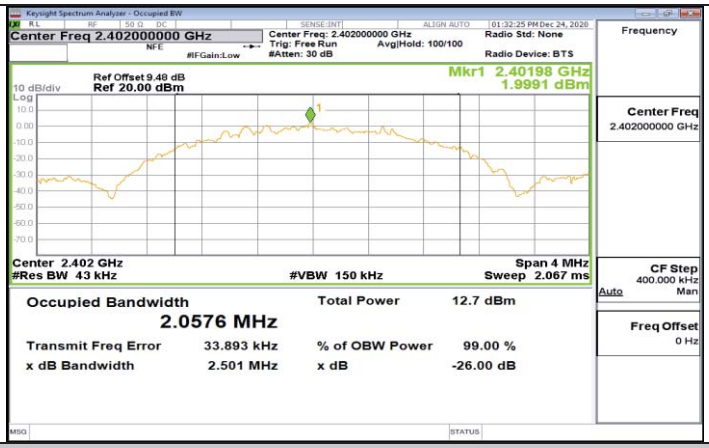
LE 1M_Ant1_2402



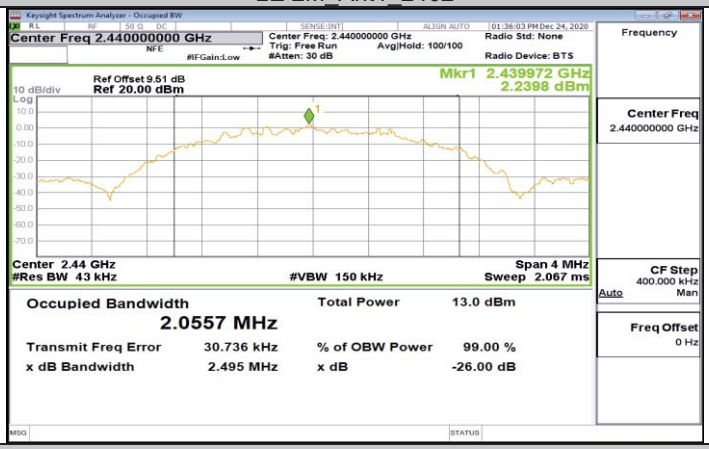
LE 1M_Ant1_2440



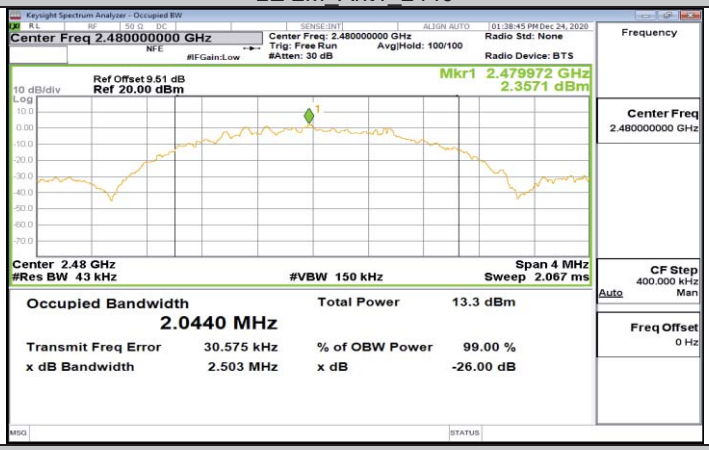
LE 1M_Ant1_2480



LE 2M_Ant1_2402



LE 2M_Ant1_2440



LE 2M_Ant1_2480

Appendix C: Maximum PEAK conducted output power

Test Result

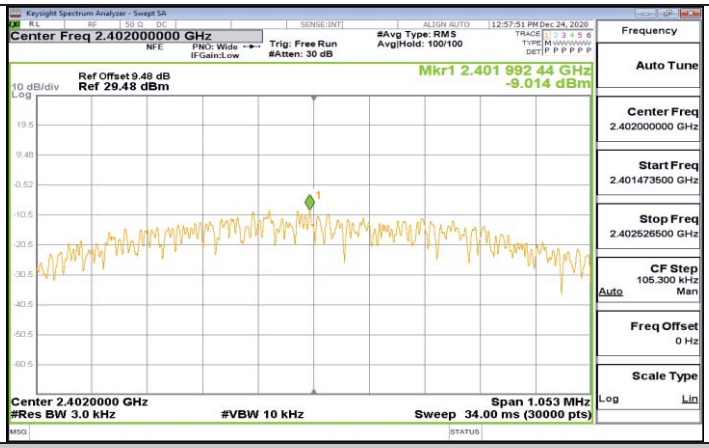
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
LE 1M	Ant1	2402	6.78	<=30	PASS
		2440	7.05	<=30	PASS
		2480	7.26	<=30	PASS
LE 2M	Ant1	2402	6.78	<=30	PASS
		2440	7.10	<=30	PASS
		2480	7.24	<=30	PASS

Appendix D: Maximum power spectral density

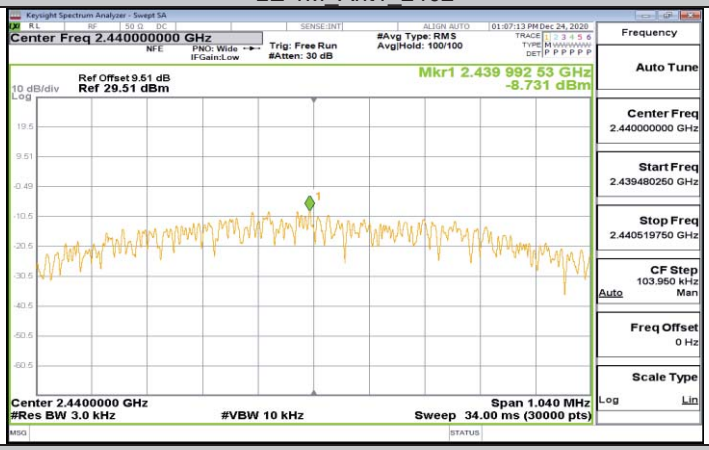
Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
LE 1M	Ant1	2402	-9.01	<=8	PASS
		2440	-8.73	<=8	PASS
		2480	-8.43	<=8	PASS
LE 2M	Ant1	2402	-12.96	<=8	PASS
		2440	-12.52	<=8	PASS
		2480	-12.42	<=8	PASS

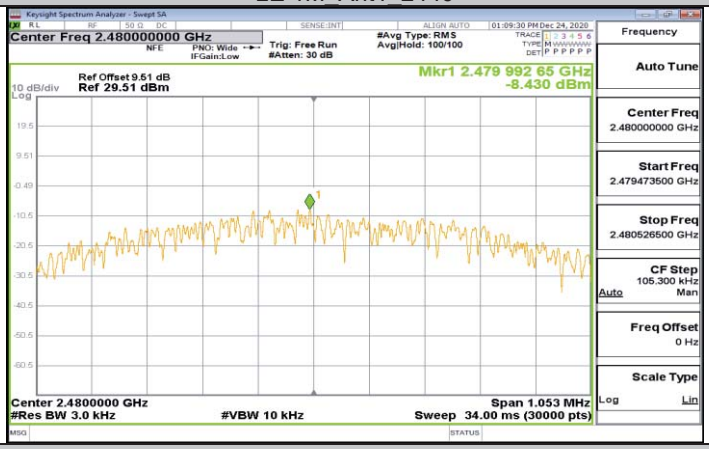
Test Graphs



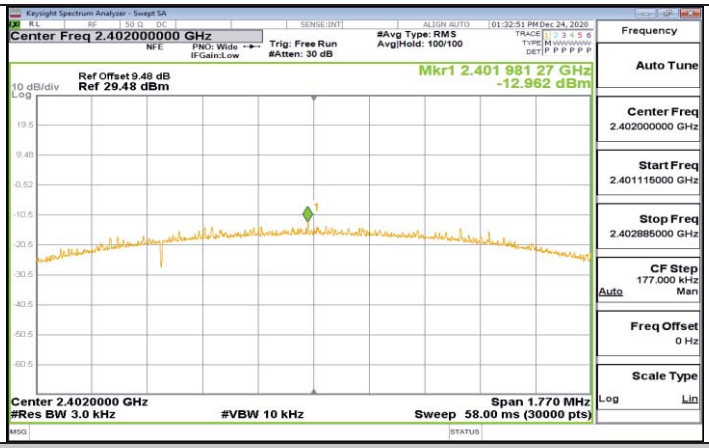
LE 1M_Ant1_2402



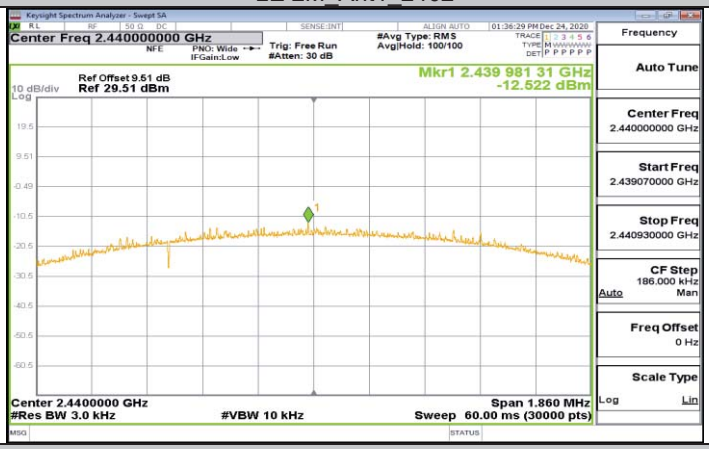
LE 1M_Ant1_2440



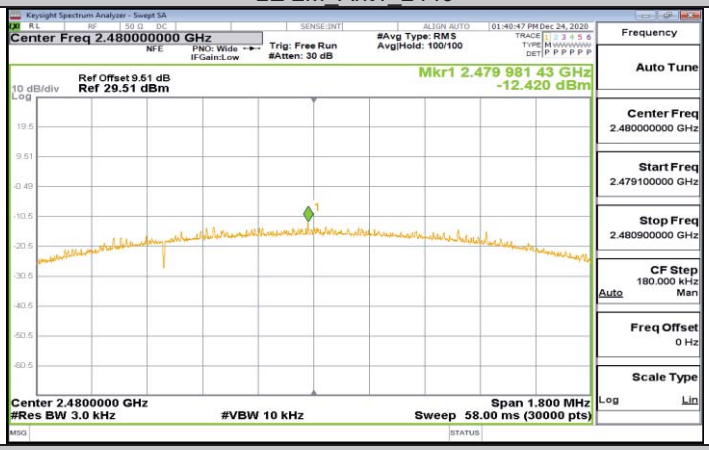
LE 1M_Ant1_2480



LE 2M_Ant1_2402



LE 2M_Ant1_2440



LE 2M_Ant1_2480

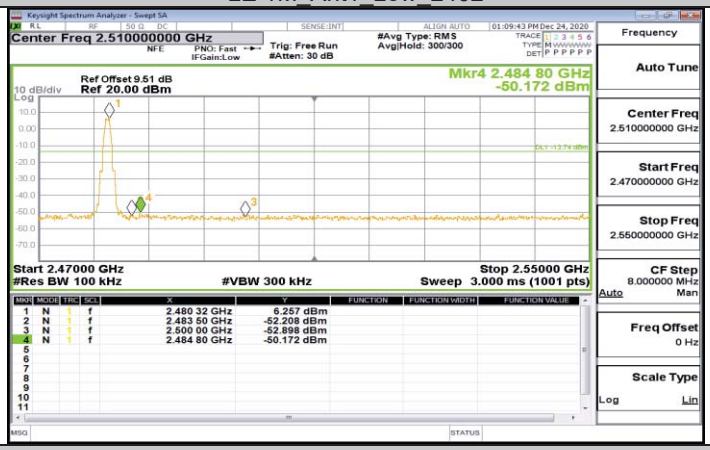
Appendix E: Band edge measurements

Test Result

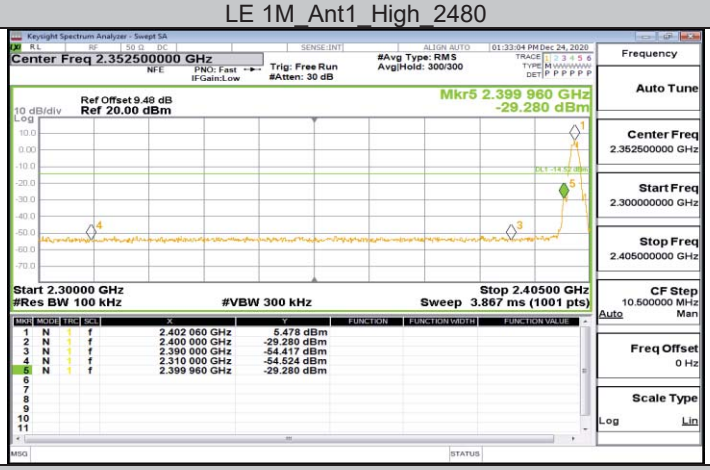
Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
LE 1M	Ant1	Low	2402	5.73	-51.15	<=-14.28	PASS
		High	2480	6.26	-50.17	<=-13.74	PASS
LE 2M	Ant1	Low	2402	5.48	-29.28	<=-14.52	PASS
		High	2480	5.54	-50.34	<=-14.46	PASS

Test Graphs

LE 1M_Ant1_Low_2402



LE 1M_Ant1_High_2480



LE 2M_Ant1_Low_2402

LE 2M_Ant1_High_2480

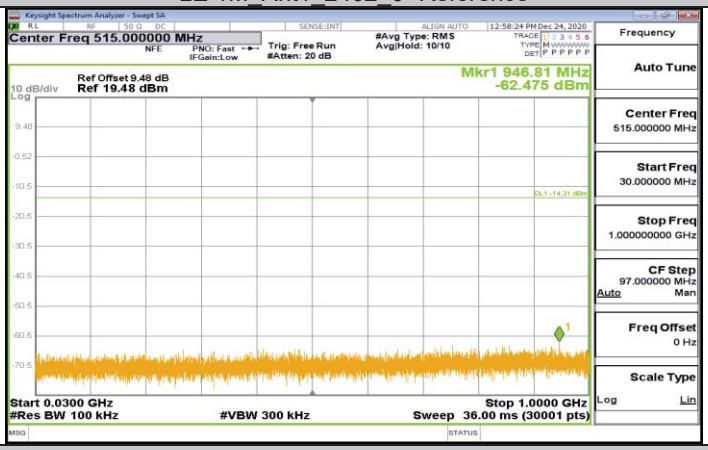
Appendix F: Conducted Spurious Emission

Test Result

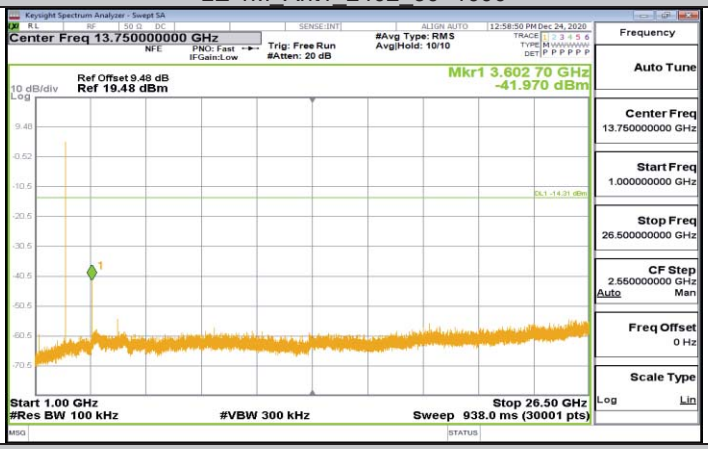
Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
LE 1M	Ant1	2402	Reference	5.69	5.69	---	PASS
			30~1000	5.69	---	<=-14.31	PASS
			1000~26500	5.69	---	<=-14.31	PASS
		2440	Reference	6.13	6.13	---	PASS
			30~1000	6.13	---	<=-13.87	PASS
			1000~26500	6.13	---	<=-13.87	PASS
		2480	Reference	6.33	6.33	---	PASS
			30~1000	6.33	---	<=-13.67	PASS
			1000~26500	6.33	---	<=-13.67	PASS
LE 2M	Ant1	2402	Reference	5.49	5.49	---	PASS
			30~1000	5.49	---	<=-14.51	PASS
			1000~26500	5.49	---	<=-14.51	PASS
		2440	Reference	5.72	5.72	---	PASS
			30~1000	5.72	---	<=-14.28	PASS
			1000~26500	5.72	---	<=-14.28	PASS
		2480	Reference	5.96	5.96	---	PASS
			30~1000	5.96	---	<=-14.04	PASS
			1000~26500	5.96	---	<=-14.04	PASS

Test Graphs

LE 1M_Ant1_2402_0~Reference

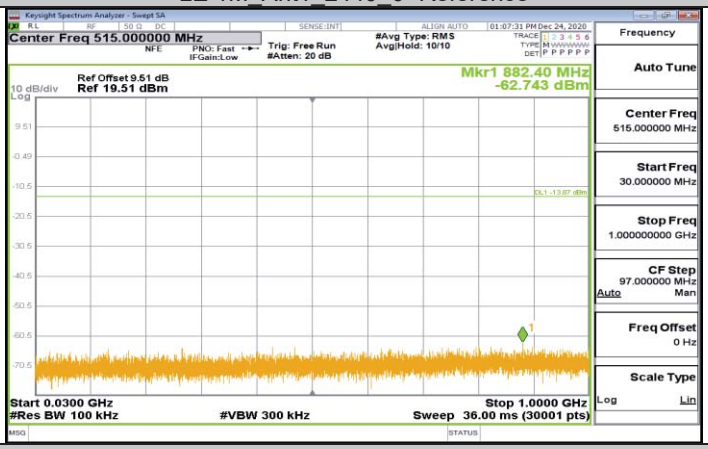


LE 1M_Ant1_2402_30~1000

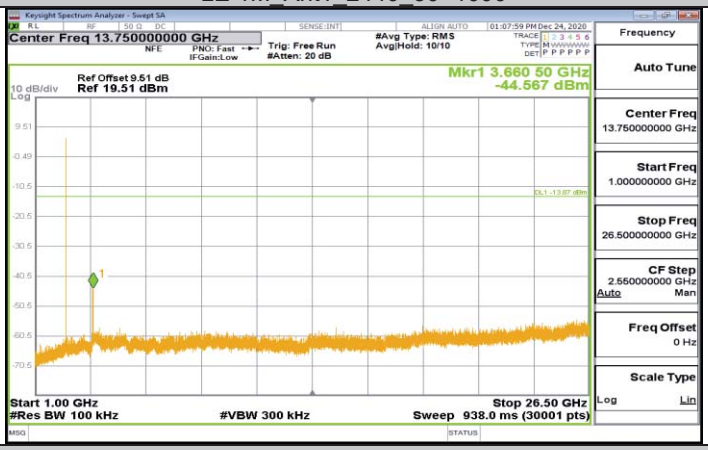


LE 1M_Ant1_2402_1000~26500

LE 1M_Ant1_2440_0~Reference

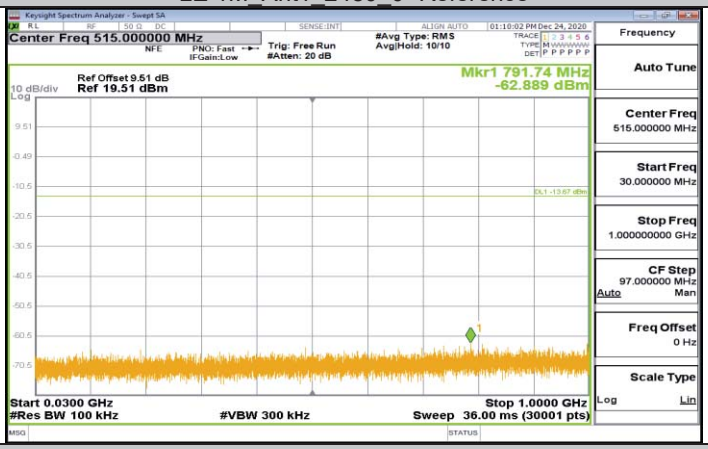


LE 1M_Ant1_2440_30~1000

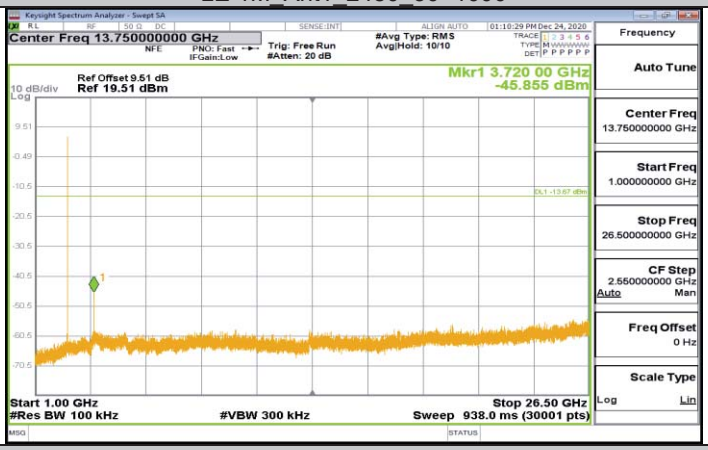


LE 1M_Ant1_2440_1000~26500

LE 1M_Ant1_2480_0~Reference

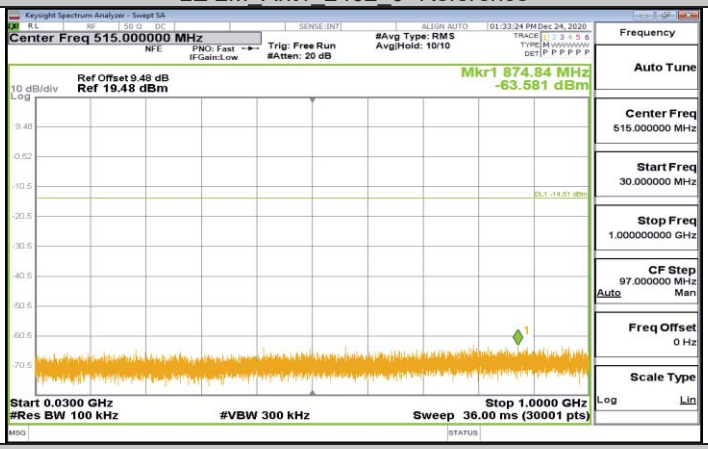


LE 1M_Ant1_2480_30~1000

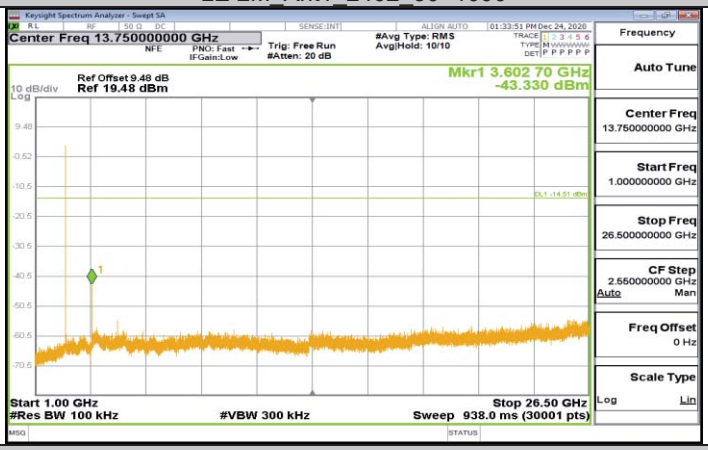


LE 1M_Ant1_2480_1000~26500

LE 2M_Ant1_2402_0~Reference

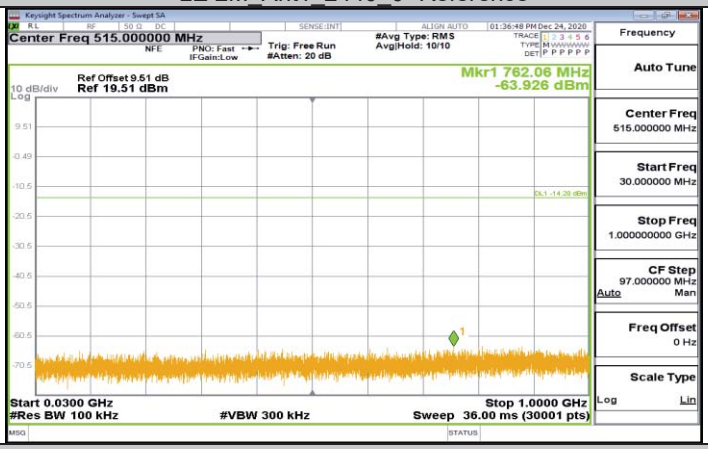


LE 2M_Ant1_2402_30~1000

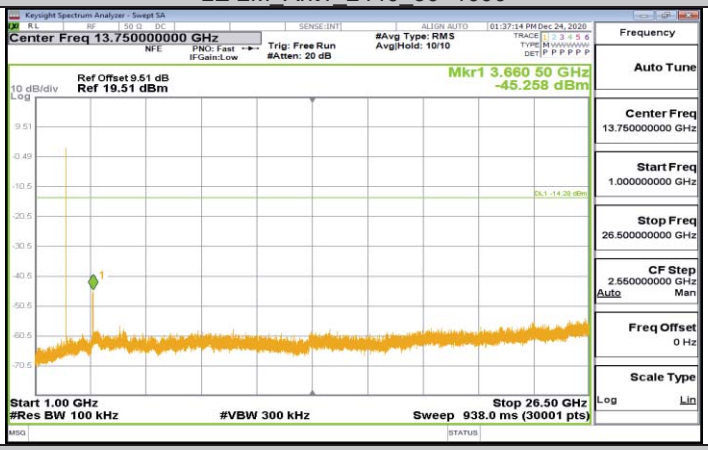


LE 2M_Ant1_2402_1000~26500

LE 2M_Ant1_2440_0~Reference

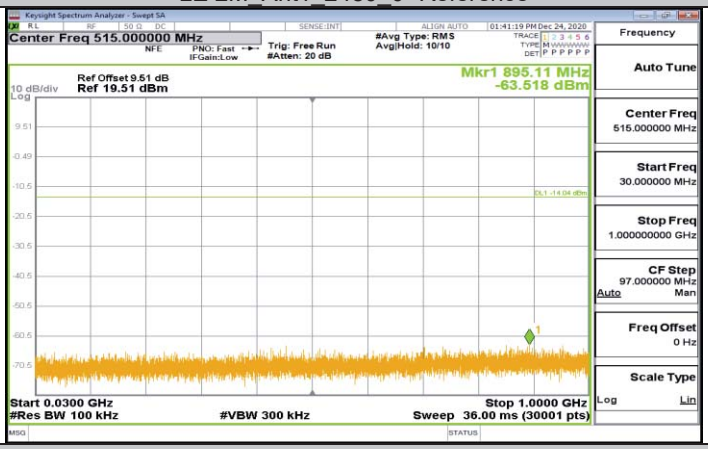


LE 2M_Ant1_2440_30~1000

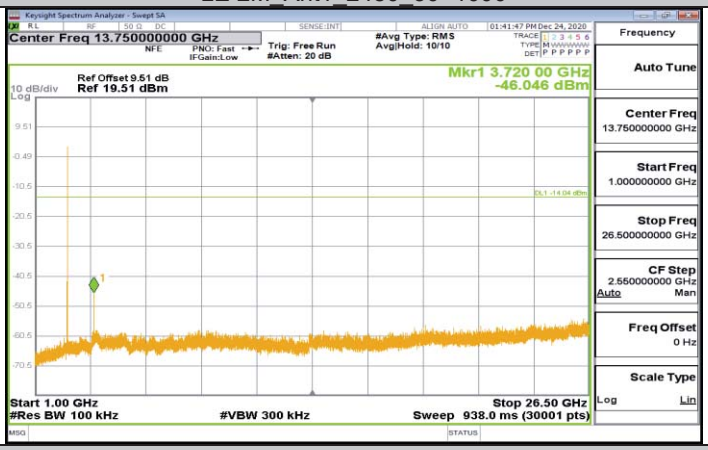


LE 2M_Ant1_2440_1000~26500

LE 2M_Ant1_2480_0~Reference



LE 2M_Ant1_2480_30~1000



LE 2M_Ant1_2480_1000~26500

Appendix G: Duty Cycle
Test Result

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	0.38	0.63	0.6032	60.32	2.20	2.63	3
LE 2M	1.07	1.88	0.5691	56.91	2.45	0.93	1

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.

Test Graphs

LE 1M_Ant1_2440

LE 2M_Ant1_2440

END OF REPORT