

FCC Radio Test Report

FCC ID: QISBGO-L03

This report concerns (check one): ☒Original Grant ☐Class II Change

Project No. : 1608C212
Equipment : HUAWEI MediaPad T2 7.0 (MediaPad T2 7.0 for short)
Model Name : BGO-L03
Applicant : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt : Aug. 26, 2016
Date of Test : Aug. 26, 2016 ~ Sep. 09, 2016
Issued Date : Sep. 13, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1608C212	Original Issue.	Sep. 13, 2016

1. CERTIFICATION

Equipment : HUAWEI MediaPad T2 7.0 (MediaPad T2 7.0 for short)
Brand Name : HUAWEI
Model Name : BGO-L03
Applicant : Huawei Technologies Co.,Ltd.
Manufacturer : Huawei Technologies Co.,Ltd.
Address : Administration Building, Huawei Base, Bantian, Longgang District ,Shenzhen
518129, P.R.China
Factory : Huawei Technologies Co.,Ltd.
Address : Administration Building, Huawei Base, Bantian, Longgang District ,Shenzhen
518129, P.R.China
Date of Test : Aug. 26, 2016 ~ Sep. 09, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1608C212) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the BT LE part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
Standard(s)	Section	Test Item	Judgment	Remark
	15.207	Conducted Emission	PASS	
	15.247(d)	Antenna conducted Spurious Emission	PASS	
	15.247(a)(2)	6dB Bandwidth	PASS	
	15.247(b)(3)	Peak Output Power	PASS	
	15.247(e)	Power Spectral Density	PASS	
	15.203	Antenna Requirement	PASS	
	15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

(1) "N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	HUAWEI MediaPad T2 7.0 (MediaPad T2 7.0 for short)	
Brand Name	HUAWEI	
Model Name	BGO-L03	
Model Difference	N/A	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK
	Bit Rate of Transmitter	1Mbps
	Output Power (Max.)	7.57dBm
Power Source	#1 DC voltage supplied from AC/DC adapter. Manufacturer: (1) HUIZHOU BYD ELECTRONIC CO., LTD. (2) Shenzhen Huntkey Electric Co., Ltd. (3) Dongguan Phitek Electronics Co., Ltd Model: HW-050100U01 (US), HW-050100A01 (AU) HW-050100E01 (EU), HW-050100B01 (UK) #2 Supplied from battery.	
Power Rating	#1 I/P: 100-240V~50/60Hz, 0.2A #2 DC 3.7V 4000mAh	
HW Version	SH1BAGO721LM	
SW Version	BGO-L03C331B002	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
-

Item	Mfr/Brand	Model.
Battery	Harbin Coslight Power Co., Ltd.	HB3G1
	Sunwoda Electronic Co., LTD	
USB Cable	HONGLIN TECHNOLOGY CO., LTD	130-26988
	FOXCONN INTERCONNECT CO., LTD	CUBB01M-HC304-D
	Shenzhen Luxshare Precision Industry Co., Ltd	L99U2017-CS-H
Earphone	GoerTek Inc	HA1-3, HG-04A
	Jiangxi Lianchuang Hongsheng Electronic Co.,	MEMD1632B580C0
	BOLUO COUNTY QUANCHENG ELECTRONIC	1311-3291-3.5mm-2

3. Channel List:

Channel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	-0.4

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

For Radiated Test	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Note:

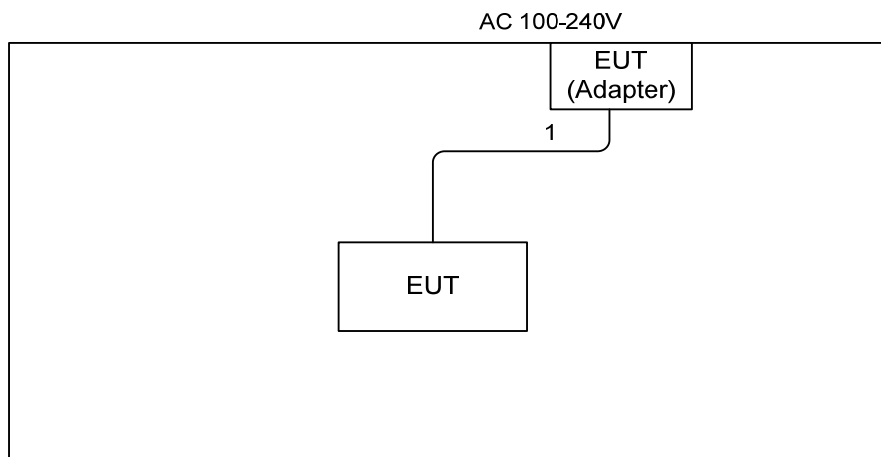
(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE.

Test Software Version	N/A		
Frequency	2402 MHz	2440 MHz	2480 MHz
BT LE	N/A	N/A	N/A

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1m	AC Power Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

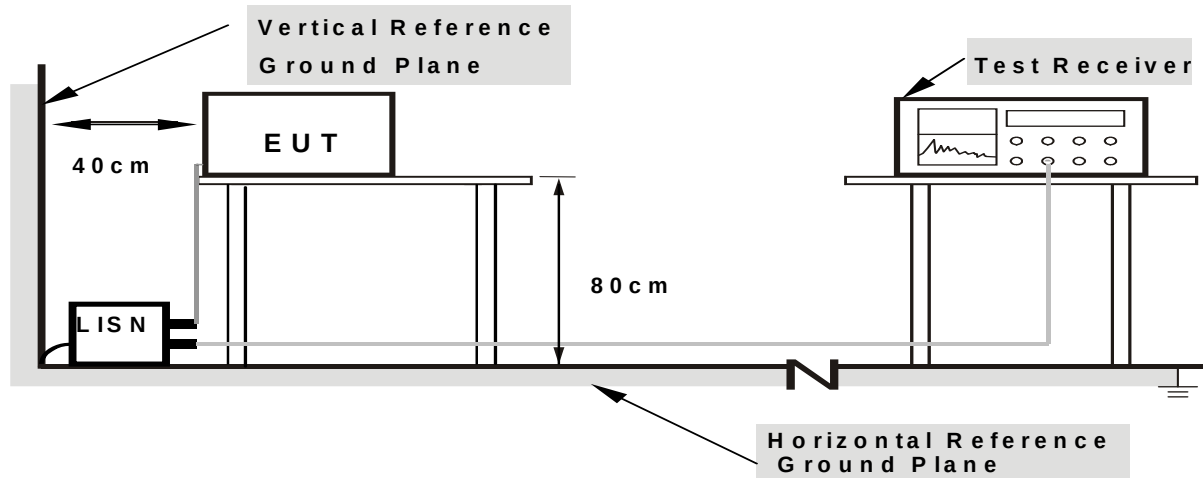
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN .
 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C
 Relative Humidity: 55%
 Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform.In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) “ N/A ” denotes test is not applicable to this device.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

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
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	Band edge at 3m (dBμV/m)		Harmonic at 1.5m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(Note 5)

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

$$(5) \quad FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

$$20 \log d_{\text{limit}}/d_{\text{measure}} = 20 \log 3/1.5 = 6 \text{dB.}$$

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

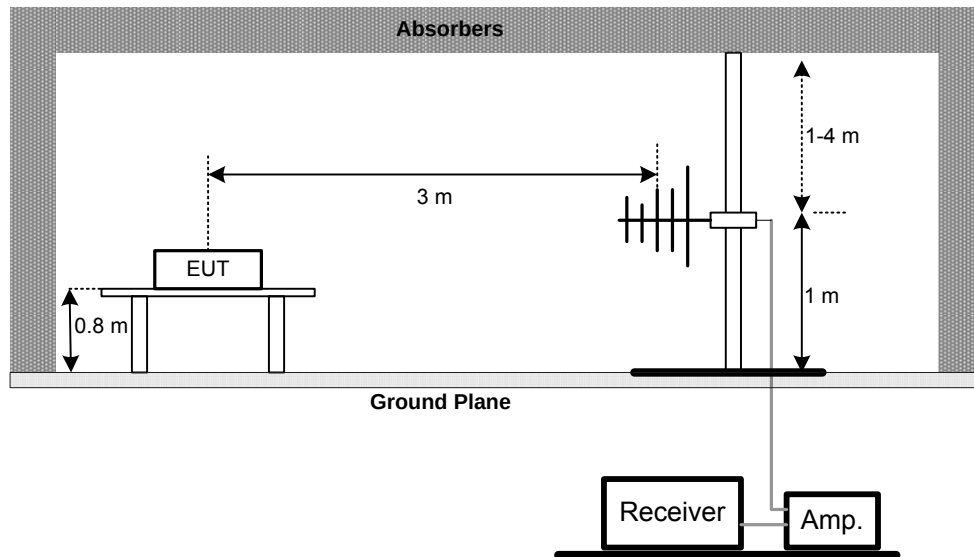
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 or 1.5m m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

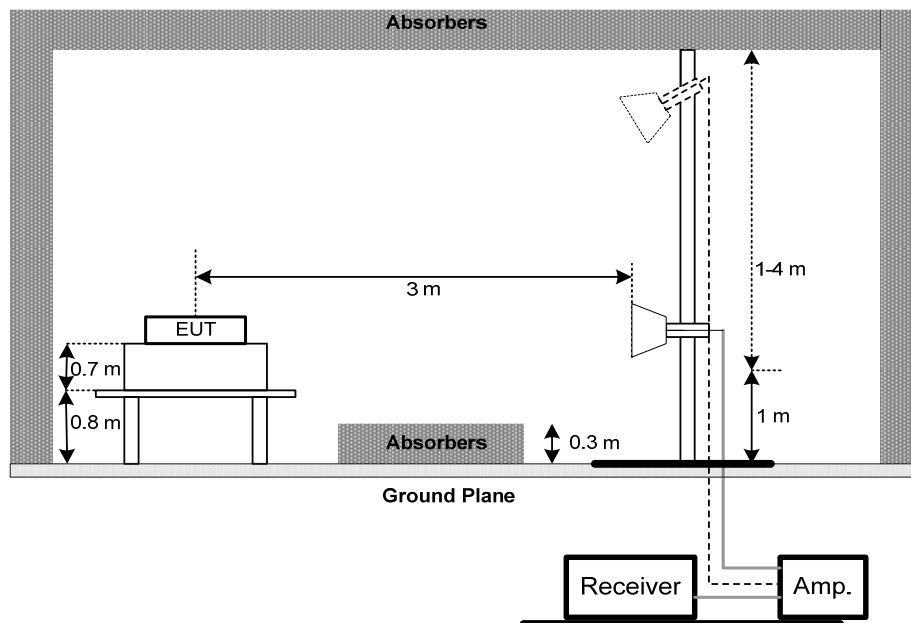
No deviation

4.2.4 TEST SETUP

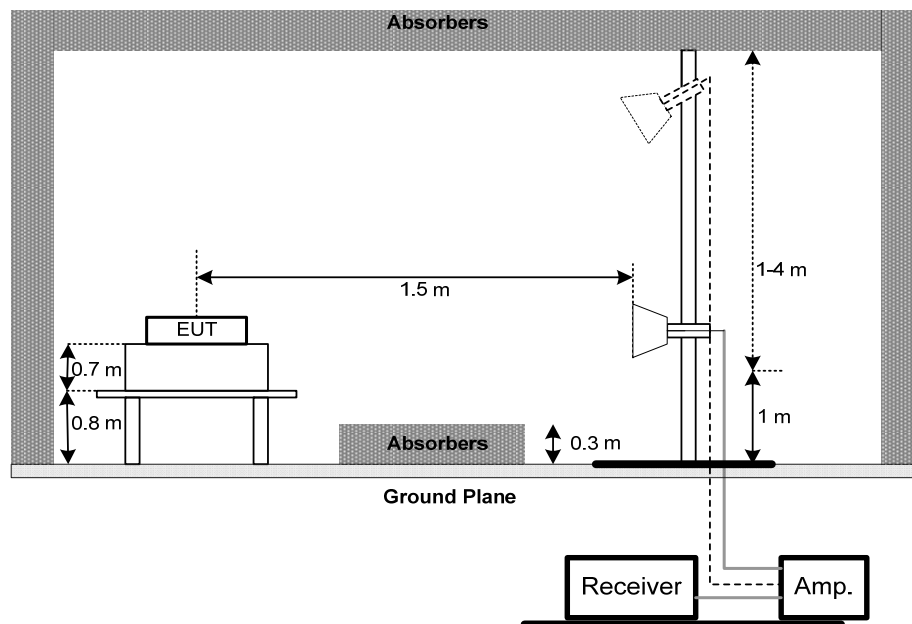
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



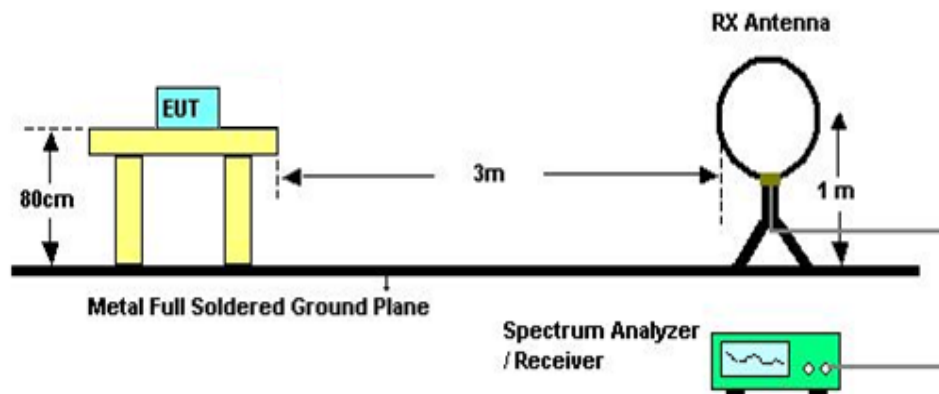
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz Band edge



Harmonic



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

4.2.6 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B.

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.7 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

Remark:

- (1) Measuring frequency range from 30MHz to 1000MHz.
- (2) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (3) EUT Orthogonal Axis:
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (4) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (5) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2402~2480 MHz	PASS

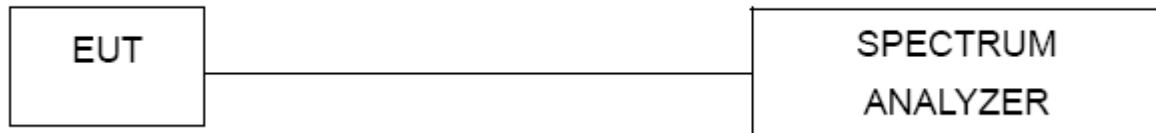
5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C
 Relative Humidity: 55%
 Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2402~2480 MHz	PASS

6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.
 Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C
 Relative Humidity: 55%
 Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- Offset=antenna gain + cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 25°C
 Relative Humidity: 55%
 Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2402~2480 MHz	PASS

8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 26, 2017
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz – 26.5GHz)	C-68	Jun. 26, 2017
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 27, 2017
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

Conducted Measurement Photos



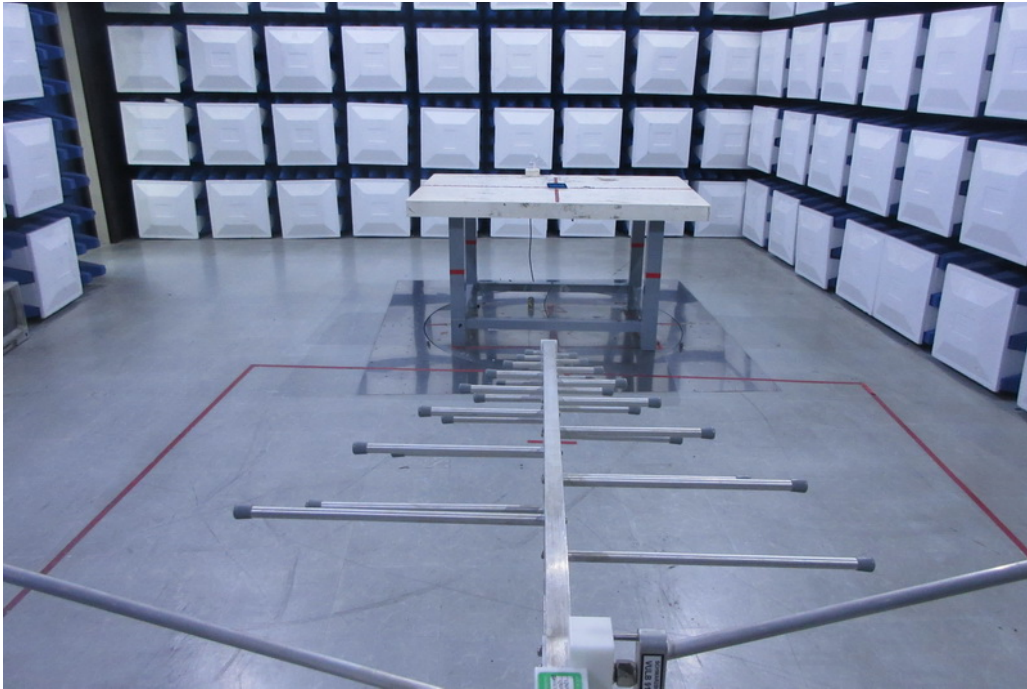
Radiated Measurement Photos

9KHz to 30MHz



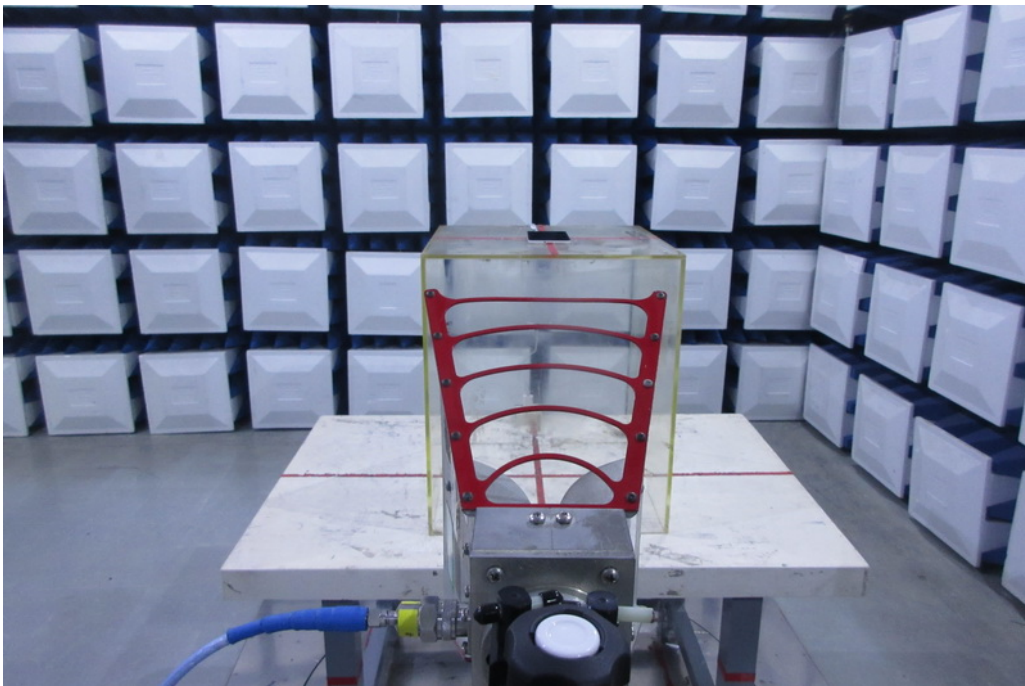
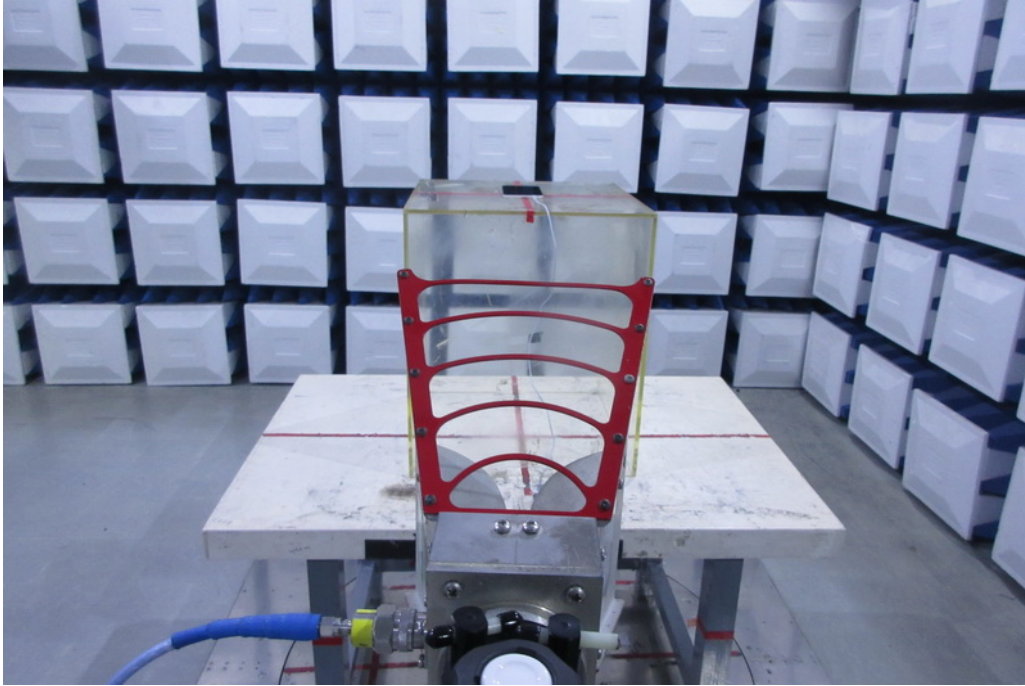
Radiated Measurement Photos

30MHz to 1000MHz



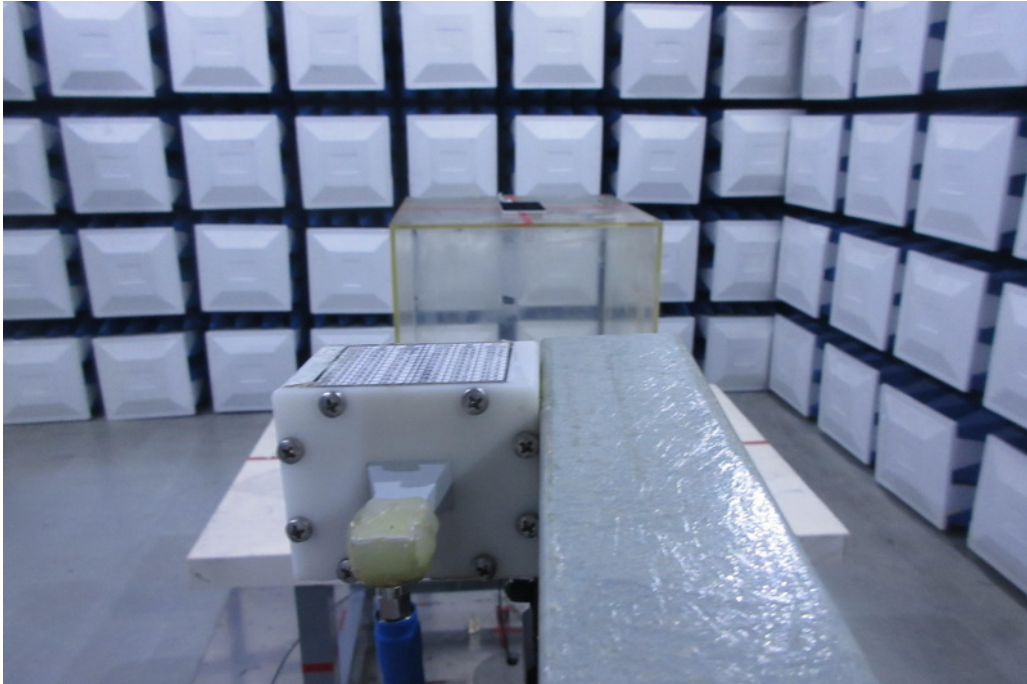
Radiated Measurement Photos

1GHz to 18GHz



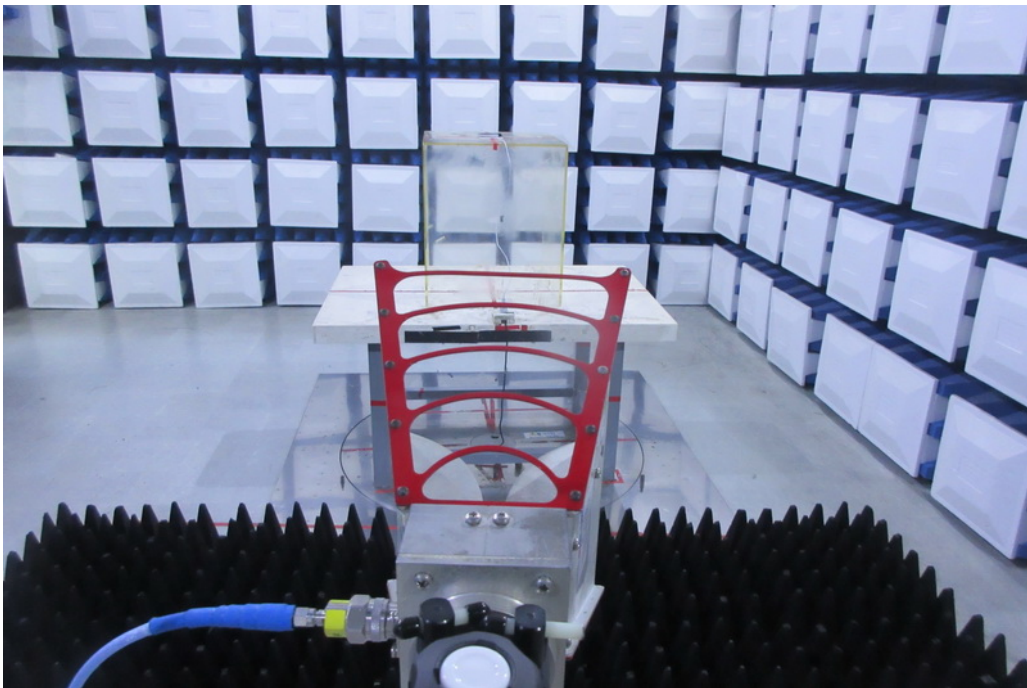
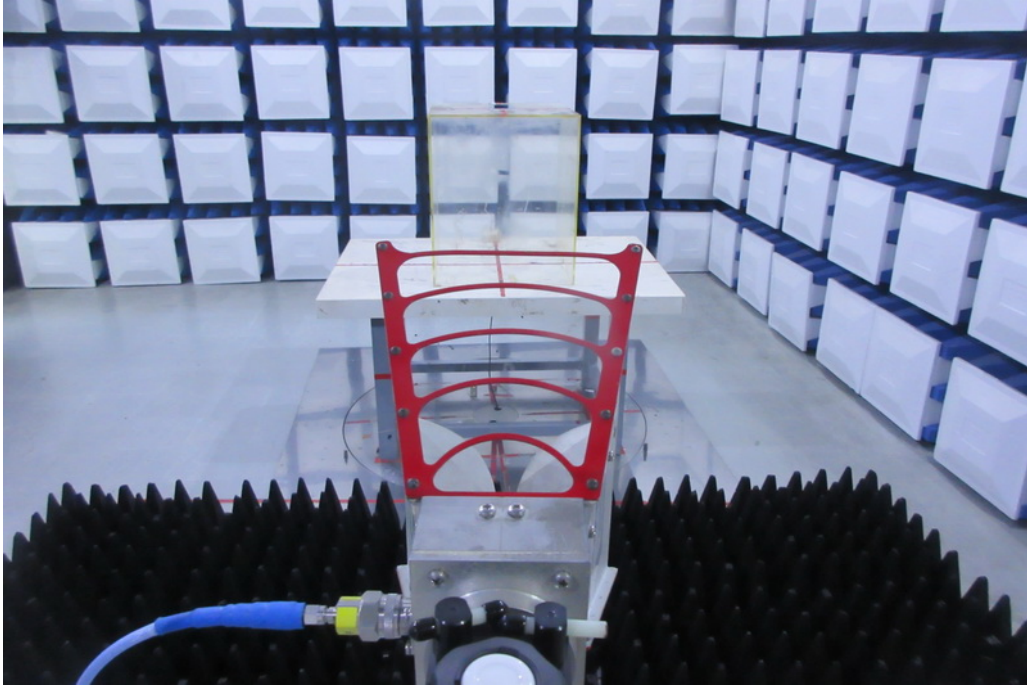
Radiated Measurement Photos

18GHz to 26.5GHz



Radiated Measurement Photos

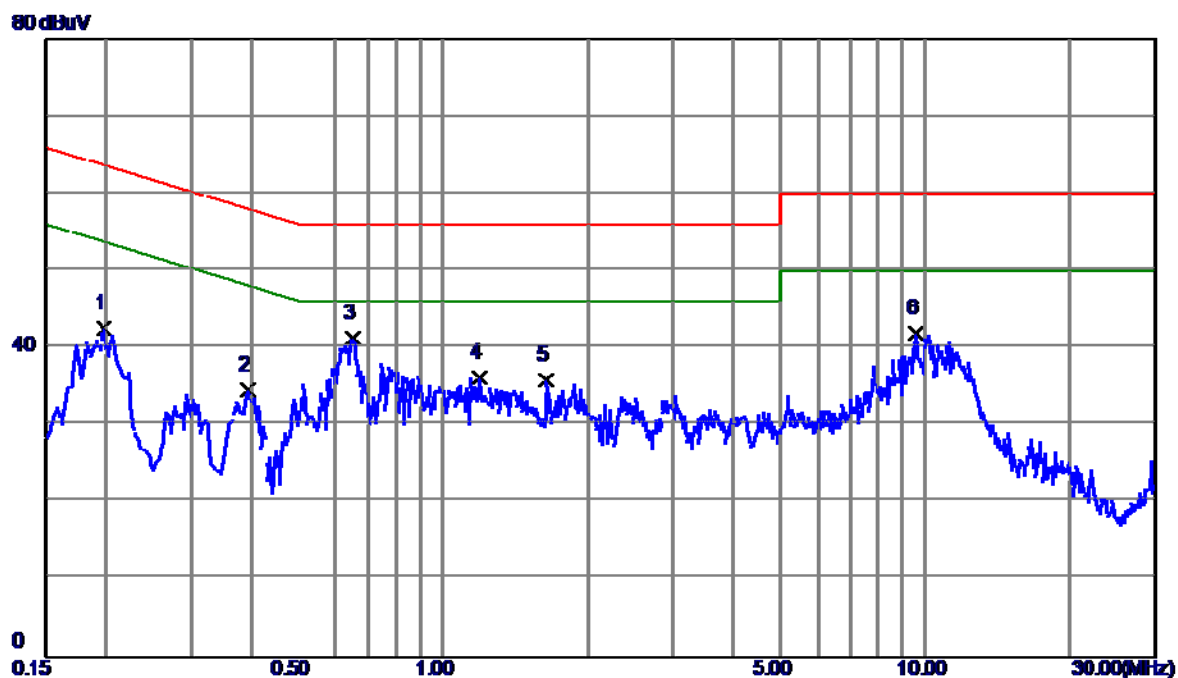
Band Edge



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode(Adapter: Phitek)

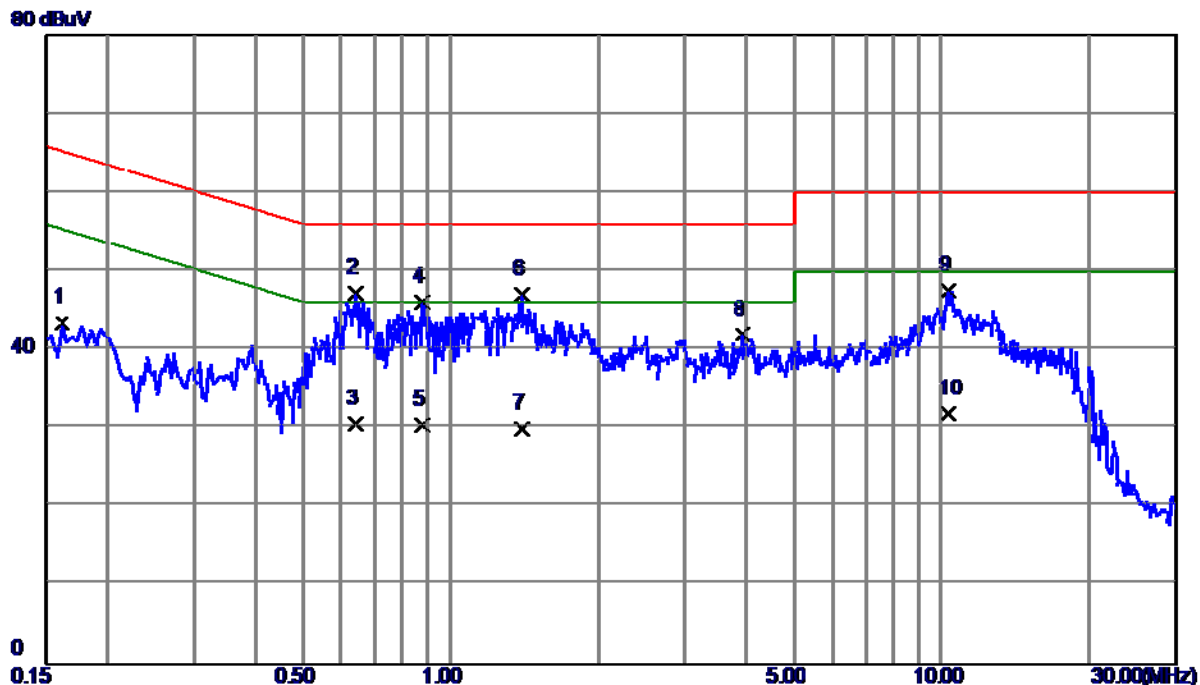
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1980	33.07	9.53	42.60	63.69	-21.09	Peak	
2	0.3940	24.96	9.54	34.50	57.98	-23.48	Peak	
3 *	0.6500	31.63	9.64	41.27	56.00	-14.73	Peak	
4	1.1940	26.46	9.77	36.23	56.00	-19.77	Peak	
5	1.6420	25.93	9.88	35.81	56.00	-20.19	Peak	
6	9.5540	31.71	10.20	41.91	60.00	-18.09	Peak	

Test Mode: TX Mode(Adapter: Phitek)

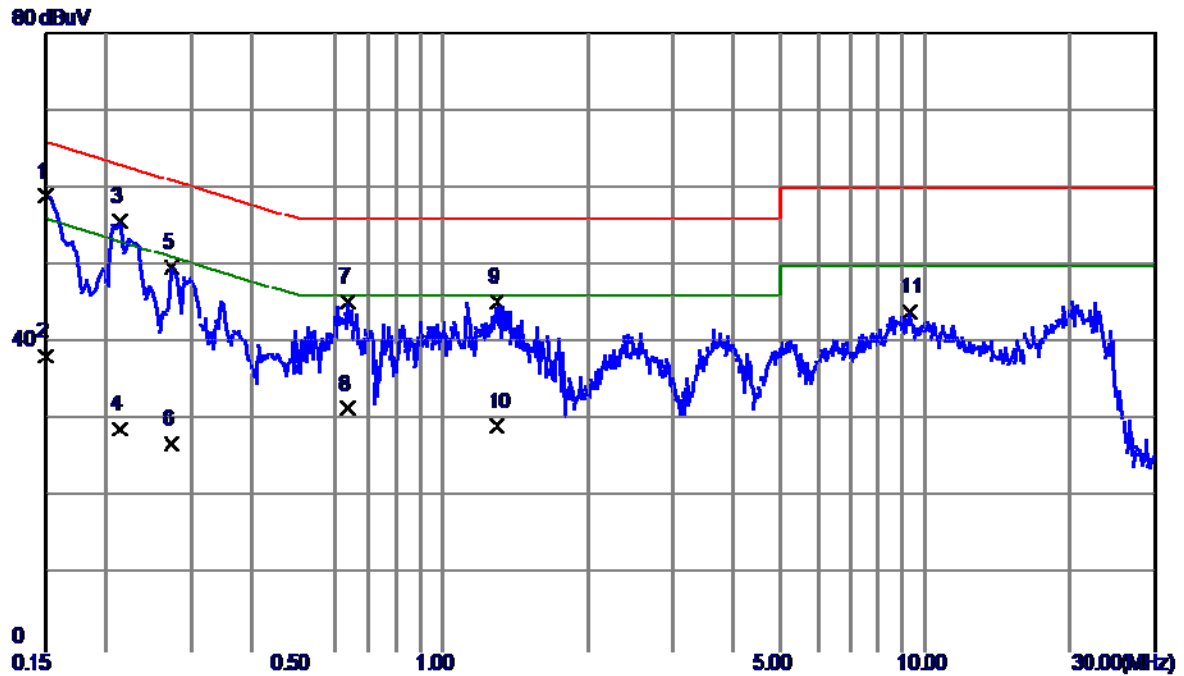
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1620	33.98	9.46	43.44	65.36	-21.92	Peak	
2 *	0.6419	37.78	9.44	47.22	56.00	-8.78	Peak	
3	0.6419	21.10	9.44	30.54	46.00	-15.46	AVG	
4	0.8780	36.42	9.63	46.05	56.00	-9.95	Peak	
5	0.8780	20.80	9.63	30.43	46.00	-15.57	AVG	
6	1.3940	37.34	9.67	47.01	56.00	-8.99	Peak	
7	1.3940	20.30	9.67	29.97	46.00	-16.03	AVG	
8	3.9300	32.01	9.88	41.89	56.00	-14.11	Peak	
9	10.3340	37.21	10.31	47.52	60.00	-12.48	Peak	
10	10.3340	21.60	10.31	31.91	50.00	-18.09	AVG	

Test Mode: TX Mode (Adapter: Huntkey)

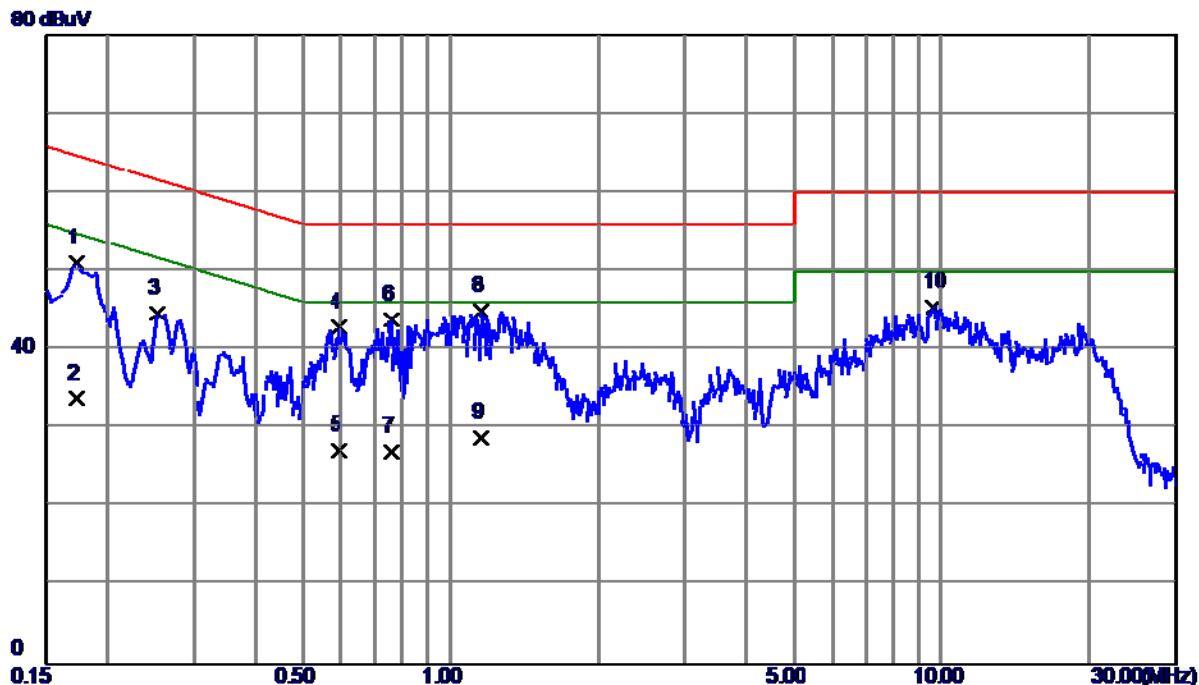
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	49.44	9.52	58.96	66.00	-7.04	Peak	
2	0.1500	28.70	9.52	38.22	56.00	-17.78	AVG	
3	0.2140	46.14	9.53	55.67	63.05	-7.38	Peak	
4	0.2140	19.20	9.53	28.73	53.05	-24.32	AVG	
5	0.2740	40.25	9.53	49.78	61.00	-11.22	Peak	
6	0.2740	17.30	9.53	26.83	51.00	24.17	AVG	
7	0.6340	35.57	9.64	45.21	56.00	-10.79	Peak	
8	0.6340	21.80	9.64	31.44	46.00	-14.56	AVG	
9	1.2940	35.48	9.80	45.28	56.00	-10.72	Peak	
10	1.2940	19.40	9.80	29.20	46.00	-16.80	AVG	
11	9.2700	33.84	10.20	44.04	60.00	-15.96	Peak	

Test Mode: TX Mode (Adapter: Huntkey)

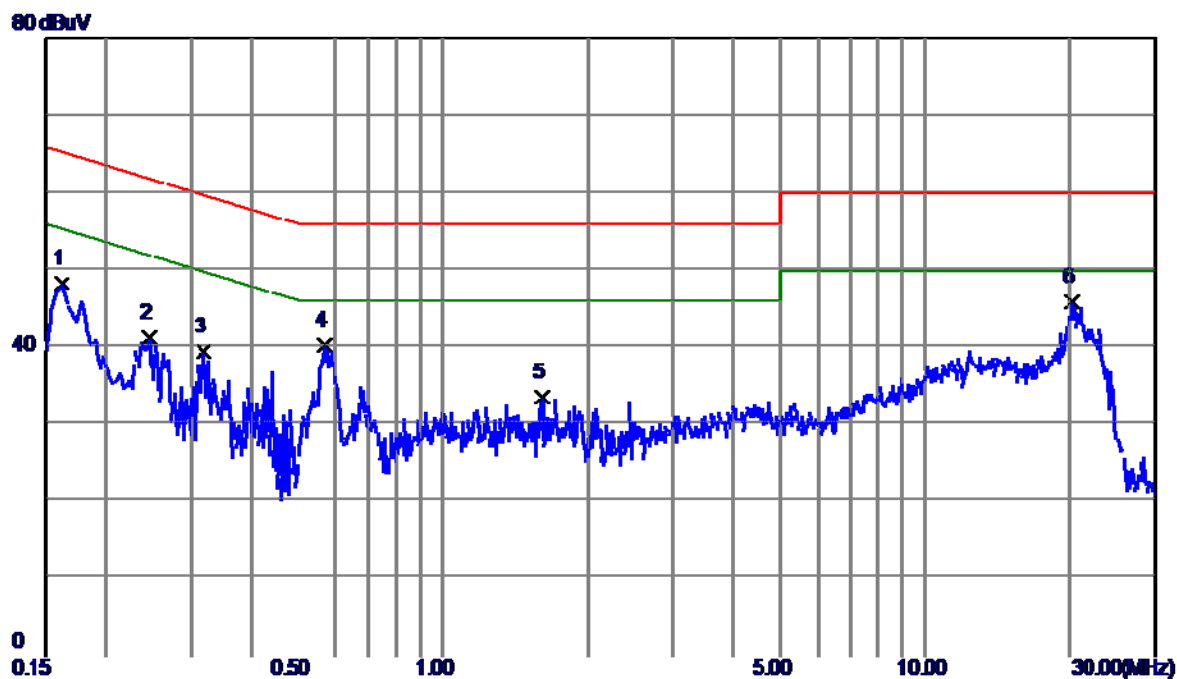
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1740	41.67	9.44	51.11	64.77	-13.66	Peak	
2	0.1740	24.39	9.44	33.83	54.77	-20.94	AVG	
3	0.2540	35.07	9.53	44.60	61.63	-17.03	Peak	
4	0.5940	33.47	9.44	42.91	56.00	-13.09	Peak	
5	0.5940	17.80	9.44	27.24	46.00	-18.76	AVG	
6	0.7580	34.29	9.51	43.80	56.00	-12.20	Peak	
7	0.7580	17.60	9.51	27.11	46.00	-18.89	AVG	
8 *	1.1539	35.25	9.66	44.91	56.00	-11.09	Peak	
9	1.1539	19.10	9.66	28.76	46.00	-17.24	AVG	
10	9.5860	35.18	10.26	45.44	60.00	-14.56	Peak	

Test Mode: TX Mode (Adapter: BYD)

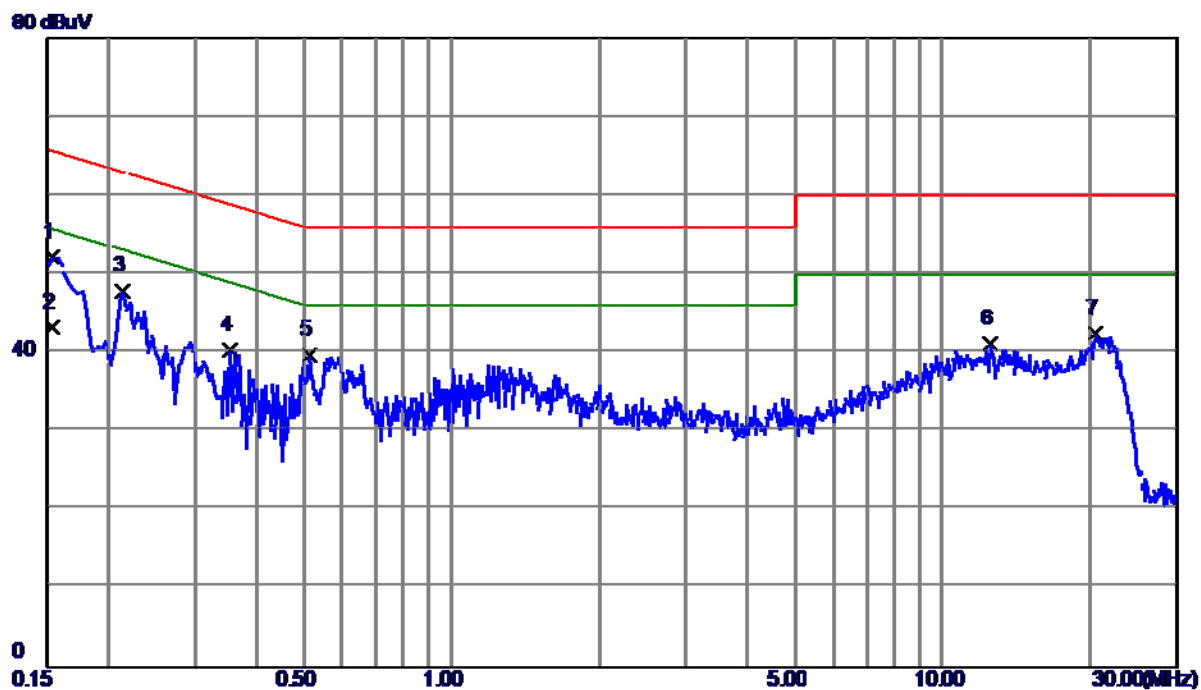
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1620	38.73	9.52	48.25	65.36	-17.11	Peak	
2	0.2460	31.68	9.53	41.21	61.89	-20.68	Peak	
3	0.3180	30.06	9.53	39.59	59.76	-20.17	Peak	
4	0.5660	30.72	9.64	40.36	56.00	-15.64	Peak	
5	1.6100	23.67	9.88	33.55	56.00	-22.45	Peak	
6 *	20.2580	35.54	10.40	45.94	60.00	14.06	Peak	

Test Mode: TX Mode (Adapter: BYD)

Neutral

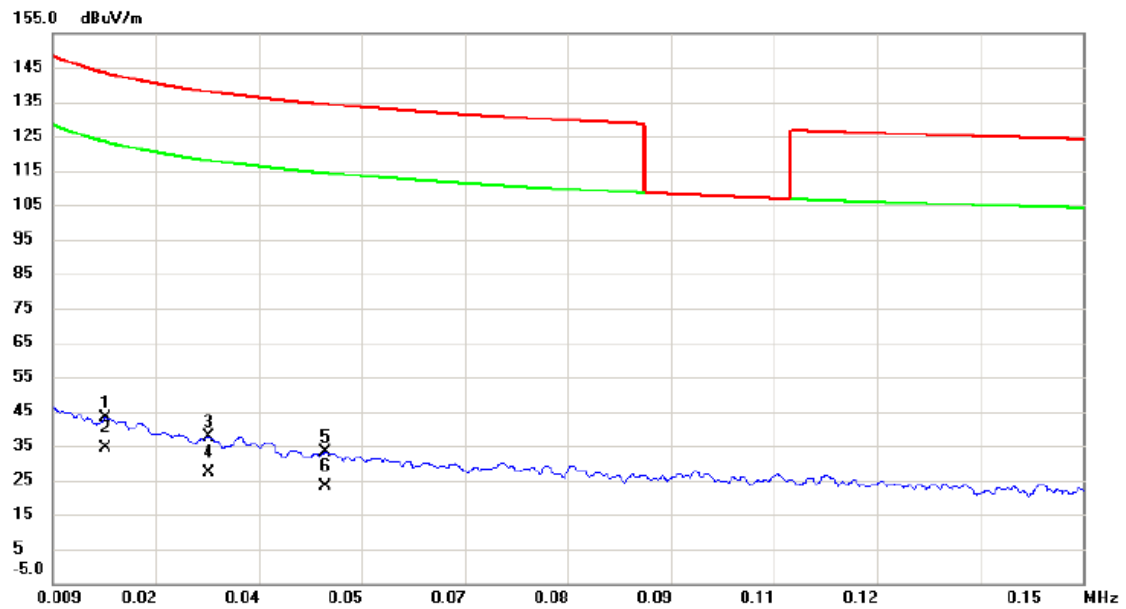


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1539	42.60	9.50	52.10	65.79	-13.69	Peak	
2 *	0.1539	33.70	9.50	43.20	55.79	-12.59	AVG	
3	0.2140	38.32	9.53	47.85	63.05	-15.20	Peak	
4	0.3540	30.77	9.53	40.30	58.87	-18.57	Peak	
5	0.5140	30.18	9.44	39.62	56.00	-16.38	Peak	
6	12.4780	30.75	10.33	41.08	60.00	-18.92	Peak	
7	20.5060	31.83	10.50	42.33	60.00	-17.67	Peak	

ATTACHMENT B - RADIATED EMISSION (9KHZ-30MHZ)

Test Mode: TX Mode(Adapter: Phitek)

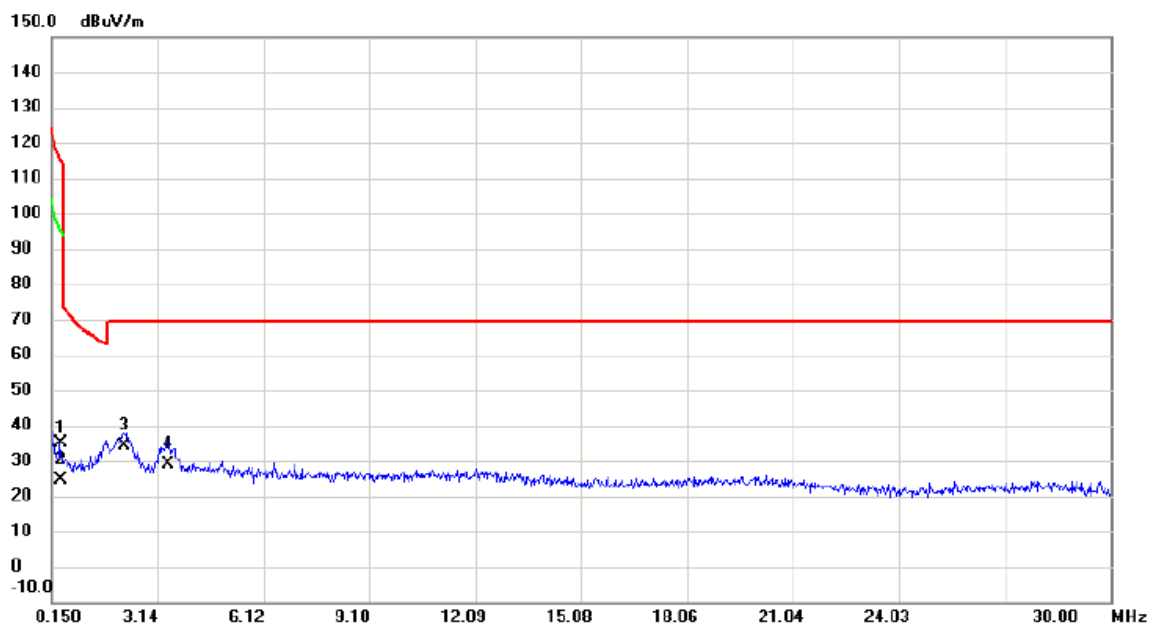
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0163	19.45	23.74	43.19	143.36	-100.17	peak	
2	*	0.0163	10.58	23.74	34.32	123.36	-89.04	AVG	
3		0.0304	15.36	22.24	37.60	137.95	-100.35	peak	
4		0.0304	4.88	22.24	27.12	117.95	-90.83	AVG	
5		0.0464	12.80	20.26	33.06	134.27	-101.21	peak	
6		0.0464	2.76	20.26	23.02	114.27	-91.25	AVG	

Test Mode: TX Mode(Adapter: Phitek)

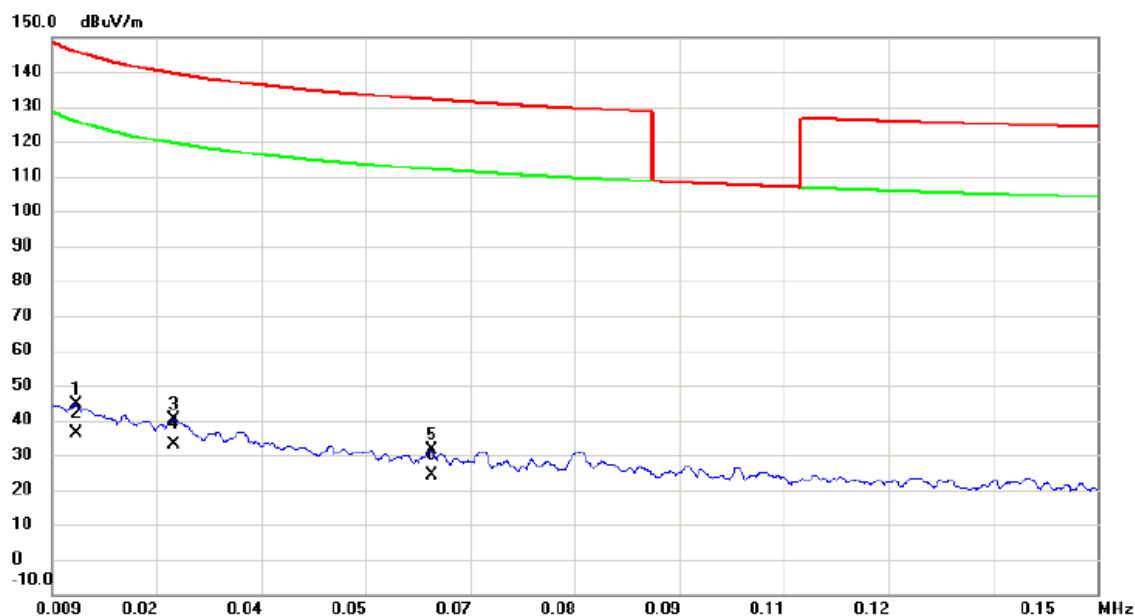
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4186	16.41	18.46	34.87	115.17	-80.30	peak	
2		0.4186	6.30	18.46	24.76	95.17	-70.41	AVG	
3	*	2.1947	16.55	17.66	34.21	69.54	-35.33	QP	
4		3.4483	11.56	17.58	29.14	69.54	-40.40	QP	

Test Mode: TX Mode(Adapter: Phitek)

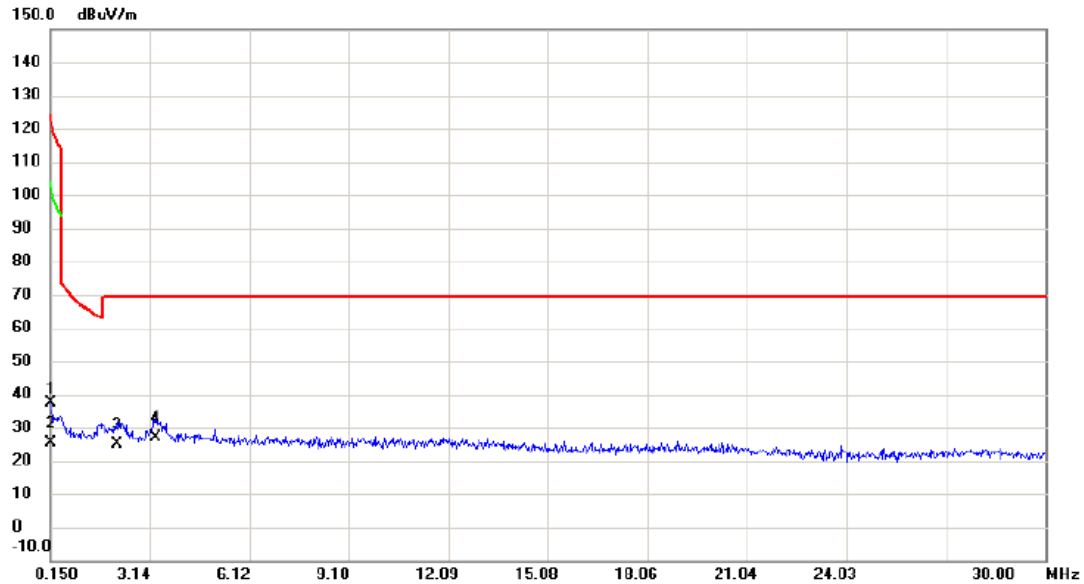
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0122	20.45	23.99	44.44	145.88	-101.44	peak	
2		0.0122	12.13	23.99	36.12	125.88	-89.76	AVG	
3		0.0255	17.28	22.84	40.12	139.47	-99.35	peak	
4	*	0.0255	10.18	22.84	33.02	119.47	-86.45	AVG	
5		0.0602	11.88	19.71	31.59	132.01	-100.42	peak	
6		0.0602	4.63	19.71	24.34	112.01	-87.67	AVG	

Test Mode: TX Mode(Adapter: Phitek)

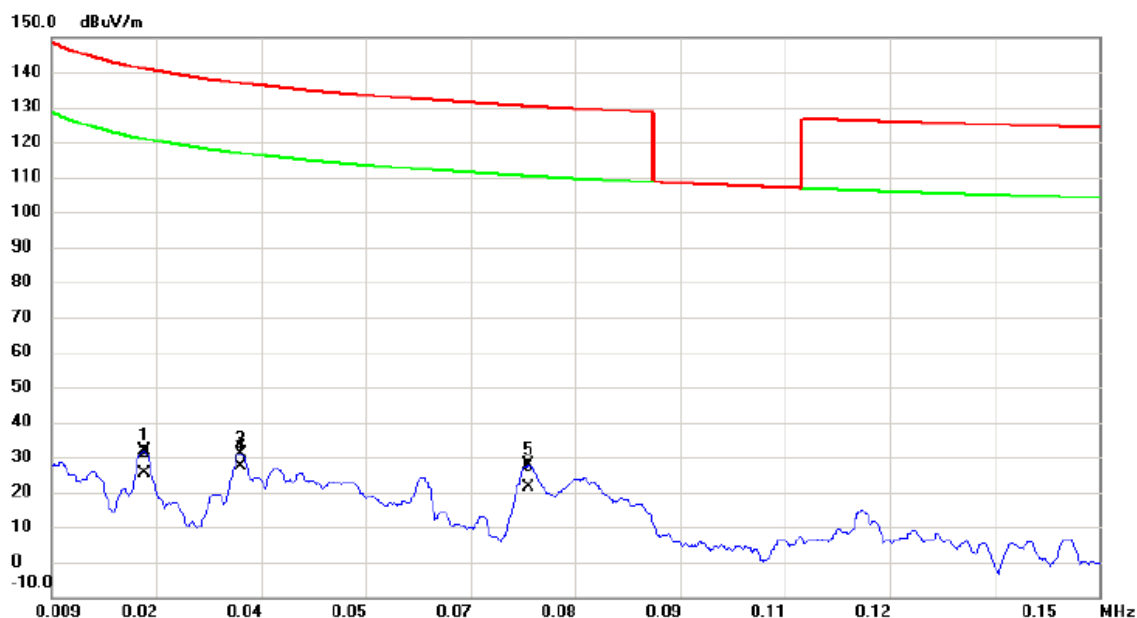
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.1500	18.69	18.74	37.43	124.09	-86.66	peak	
2		0.1500	6.80	18.74	25.54	104.09	-78.55	AVG	
3		2.1650	7.11	17.70	24.81	69.54	-44.73	QP	
4	*	3.3290	9.81	17.33	27.14	69.54	-42.40	QP	

Test Mode: TX Mode (Adapter: Huntkey)

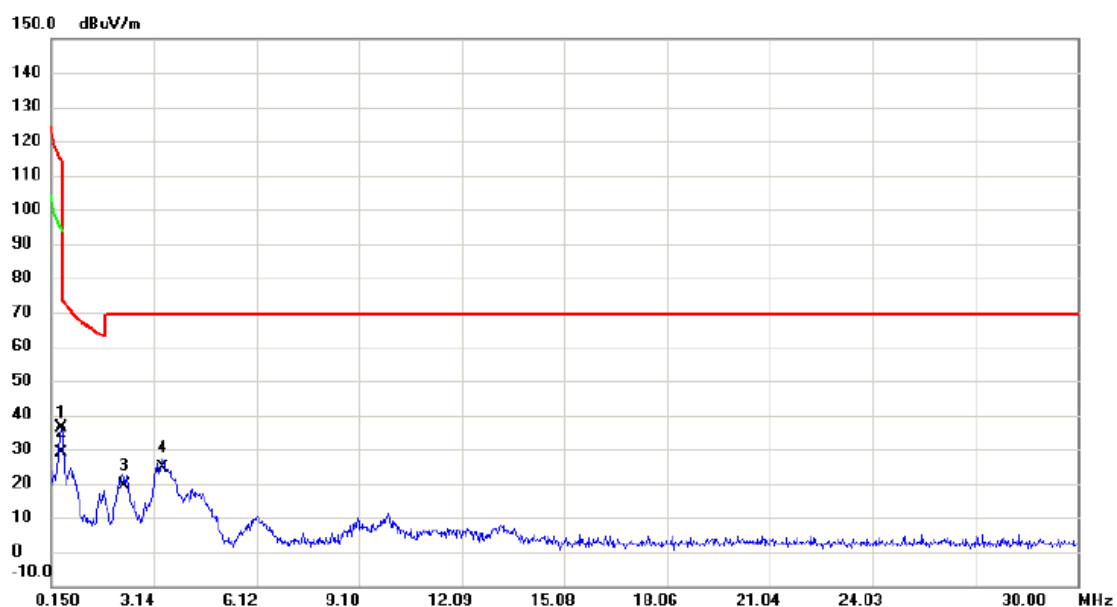
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0215	8.30	23.34	31.64	140.96	-109.32	peak	
2		0.0215	2.09	23.34	25.43	120.96	-95.53	AVG	
3		0.0345	9.42	21.73	31.15	136.85	-105.70	peak	
4		0.0345	5.60	21.73	27.33	116.85	-89.52	AVG	
5		0.0732	8.45	19.55	28.00	130.31	-102.31	peak	
6	*	0.0732	1.95	19.55	21.50	110.31	-88.81	AVG	

Test Mode: TX Mode (Adapter: Huntkey)

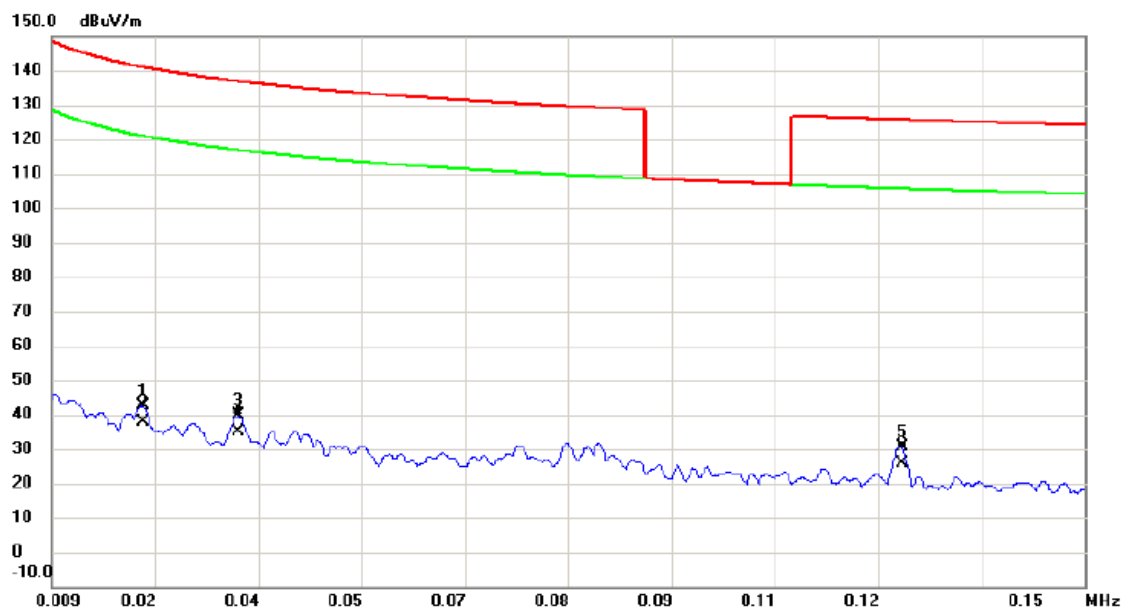
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4485	17.93	18.43	36.36	114.57	-78.21	peak	
2		0.4485	10.75	18.43	29.18	94.57	-65.39	AVG	
3		2.2694	1.93	17.56	19.49	69.54	-50.05	QP	
4	*	3.3887	7.04	17.46	24.50	69.54	-45.04	QP	

Test Mode: TX Mode (Adapter: Huntkey)

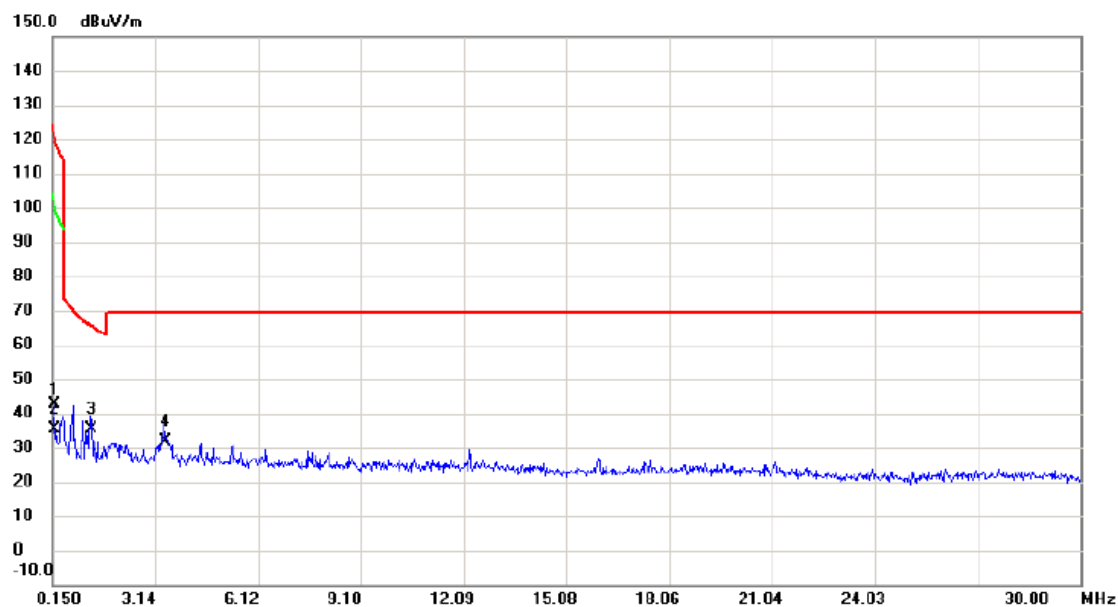
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0215	19.10	23.34	42.44	140.96	-98.52	peak	
2		0.0215	14.36	23.34	37.70	120.96	-83.26	AVG	
3		0.0345	17.88	21.73	39.61	136.85	-97.24	peak	
4		0.0345	13.13	21.73	34.86	116.85	-81.99	AVG	
5		0.1250	12.19	18.59	30.78	125.67	-94.89	peak	
6	*	0.1250	7.26	18.59	25.85	105.67	-79.82	AVG	

Test Mode: TX Mode (Adapter: Huntkey)

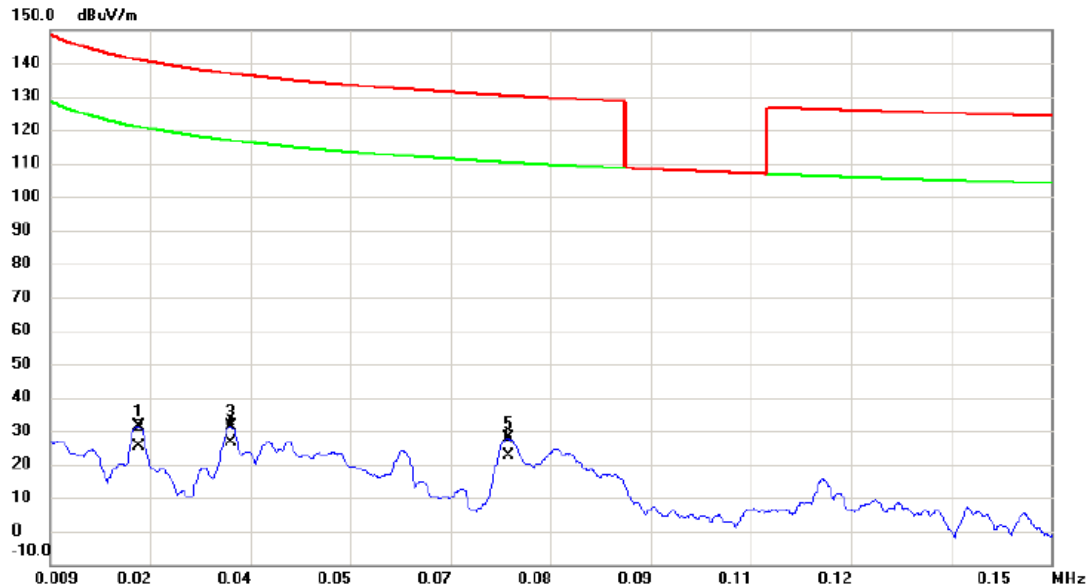
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1948	23.92	18.70	42.62	121.81	-79.19	peak	
2		0.1948	16.61	18.70	35.31	101.81	-66.50	AVG	
3	*	1.2694	17.72	17.74	35.46	65.53	-30.07	QP	
4		3.4186	14.41	17.52	31.93	69.54	-37.61	QP	

Test Mode: TX Mode (Adapter: BYD)

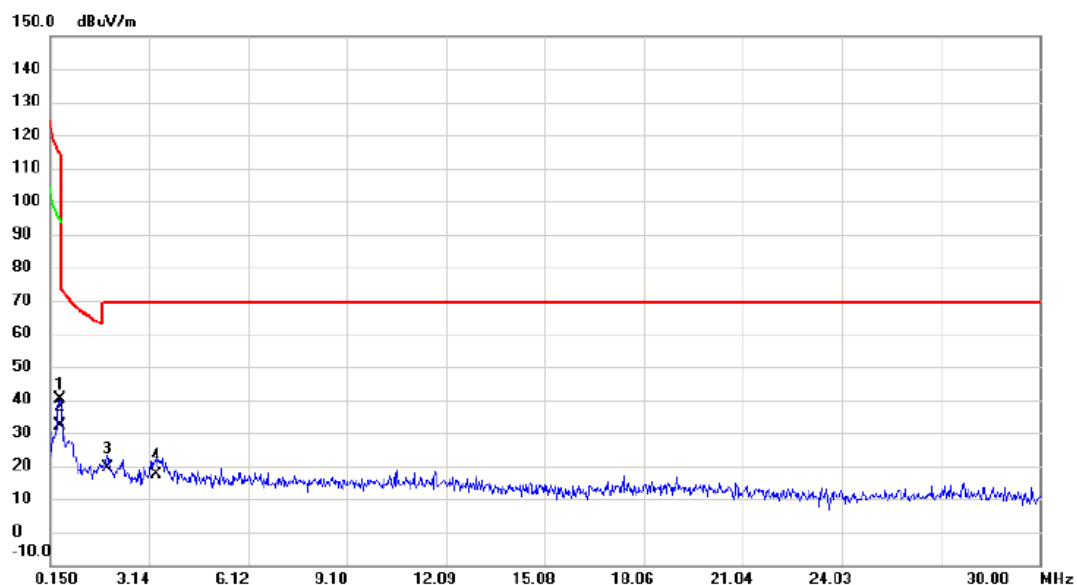
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0215	8.18	23.34	31.52	140.96	-109.44	peak	
2		0.0215	2.18	23.34	25.52	120.96	-95.44	AVG	
3		0.0345	9.61	21.73	31.34	136.85	-105.51	peak	
4		0.0345	5.03	21.73	26.76	116.85	-90.09	AVG	
5		0.0735	8.37	19.55	27.92	130.28	-102.36	peak	
6	*	0.0735	3.22	19.55	22.77	110.28	-87.51	AVG	

Test Mode: TX Mode (Adapter: BYD)

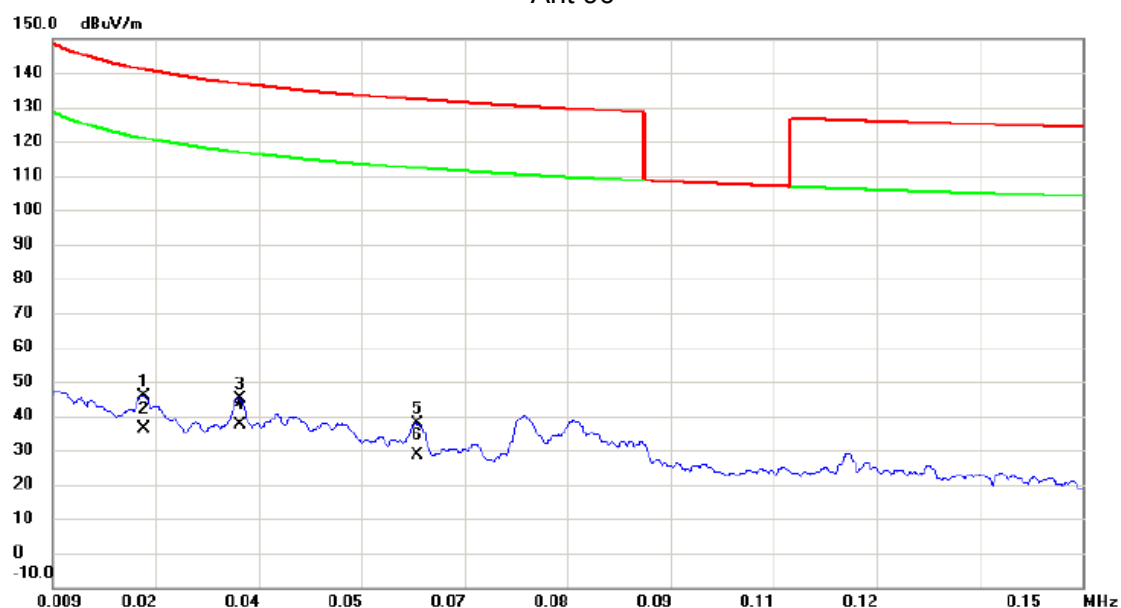
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4634	21.74	18.41	40.15	114.28	-74.13	peak	
2		0.4634	13.84	18.41	32.25	94.28	-62.03	AVG	
3	*	1.8962	1.42	17.88	19.30	69.54	-50.24	QP	
4		3.3440	-0.14	17.36	17.22	69.54	-52.32	QP	

Test Mode: TX Mode (Adapter: BYD)

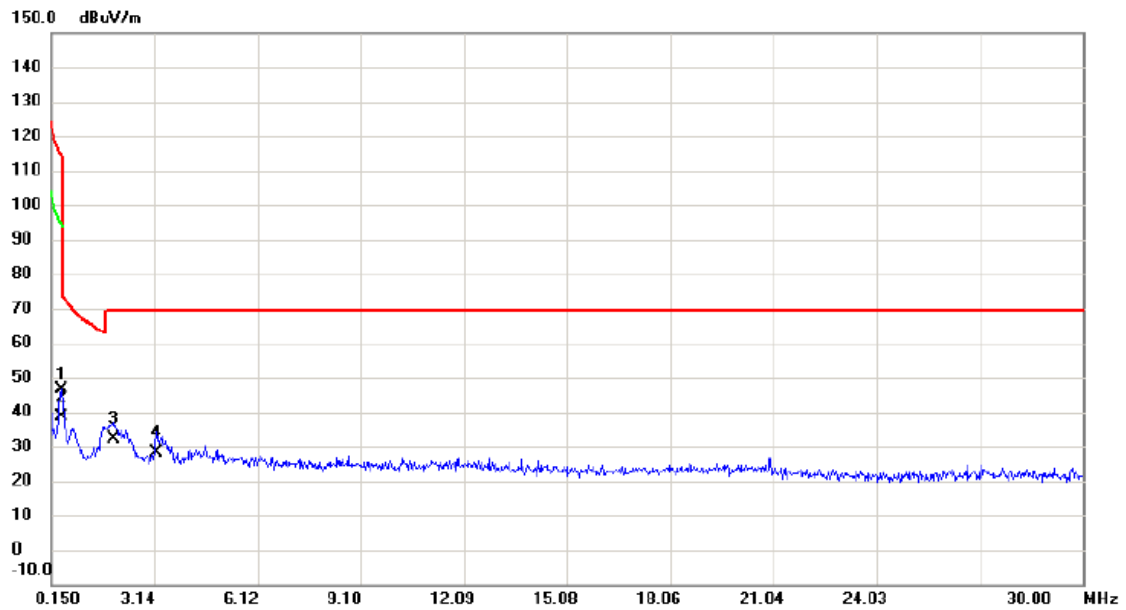
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0215	22.62	23.34	45.96	140.96	-95.00	peak	
2		0.0215	13.05	23.34	36.39	120.96	-84.57	AVG	
3		0.0346	23.40	21.72	45.12	136.82	-91.70	peak	
4	*	0.0346	15.72	21.72	37.44	116.82	-79.38	AVG	
5		0.0590	17.95	19.72	37.67	132.19	-94.52	peak	
6		0.0590	8.98	19.72	28.70	112.19	-83.49	AVG	

Test Mode: TX Mode (Adapter: BYD)

Ant 90°

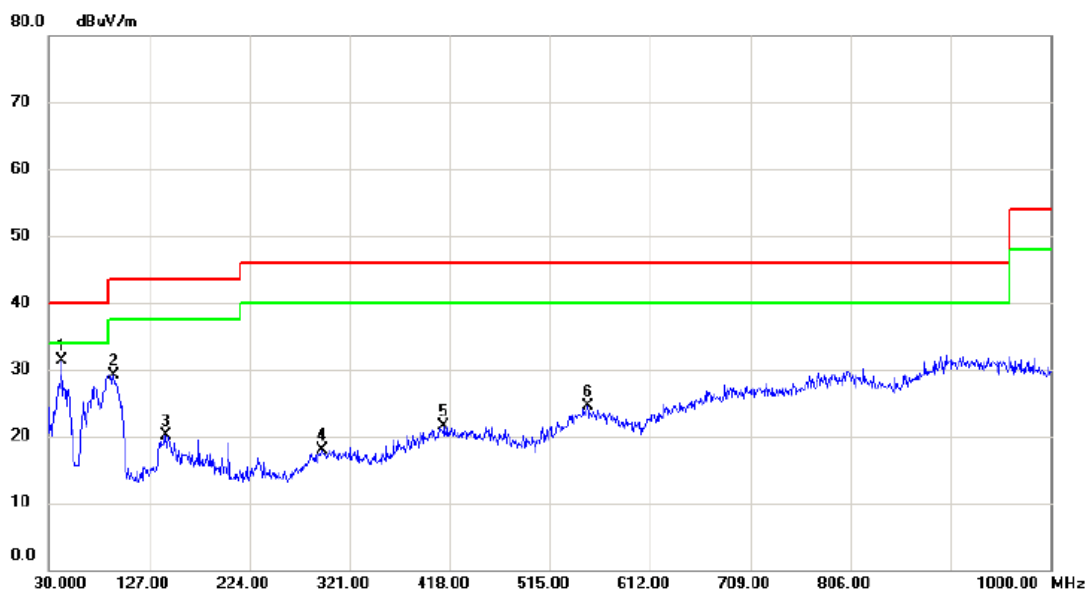


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4485	28.29	18.43	46.72	114.57	-67.85	peak	
2		0.4485	20.22	18.43	38.65	94.57	-55.92	AVG	
3	*	1.9410	14.25	17.89	32.14	69.54	-37.40	QP	
4		3.2096	11.27	17.08	28.35	69.54	-41.19	QP	

ATTACHMENT C - RADIATED EMISSION BETWEEN (30MHZ TO 1000MHZ)

Test Mode: TX 2402MHz (Adapter: Phitek)

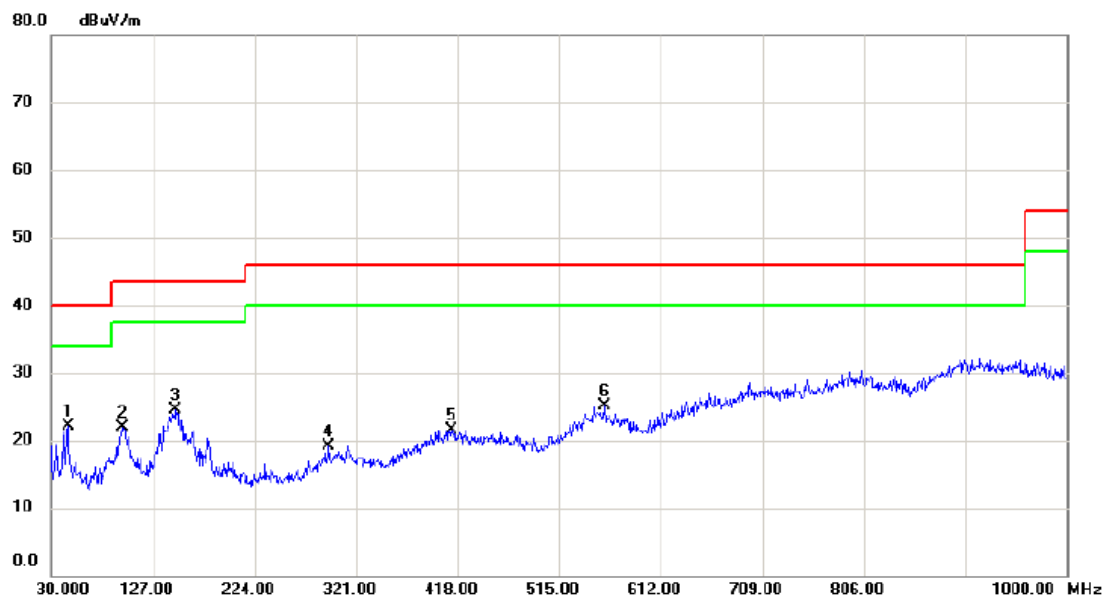
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	41.6400	44.84	-13.56	31.28	40.00	-8.72	peak	
2		92.5650	46.56	-17.38	29.18	43.50	-14.32	peak	
3		142.5200	33.67	-13.55	20.12	43.50	-23.38	peak	
4		294.8100	28.60	-10.72	17.88	46.00	-28.12	peak	
5		412.6650	29.41	-7.84	21.57	46.00	-24.43	peak	
6		551.8600	29.04	-4.63	24.41	46.00	-21.59	peak	

Test Mode: TX 2402MHz (Adapter: Phitek)

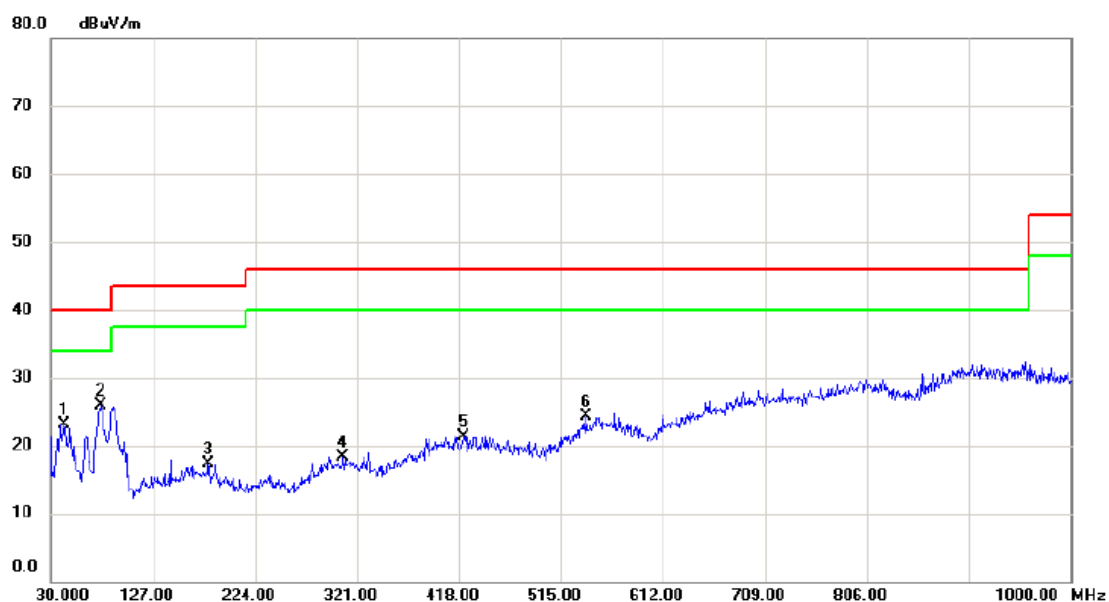
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	46.0050	34.53	-12.45	22.08	40.00	-17.92	peak	
2		97.4150	38.29	-16.42	21.87	43.50	-21.63	peak	
3		148.8250	37.52	-13.04	24.48	43.50	-19.02	peak	
4		294.8100	29.77	-10.72	19.05	46.00	-26.95	peak	
5		412.6650	29.43	-7.84	21.59	46.00	-24.41	peak	
6		558.1650	30.03	-4.95	25.08	46.00	-20.92	peak	

Test Mode: TX 2480MHz (Adapter: Phitek)

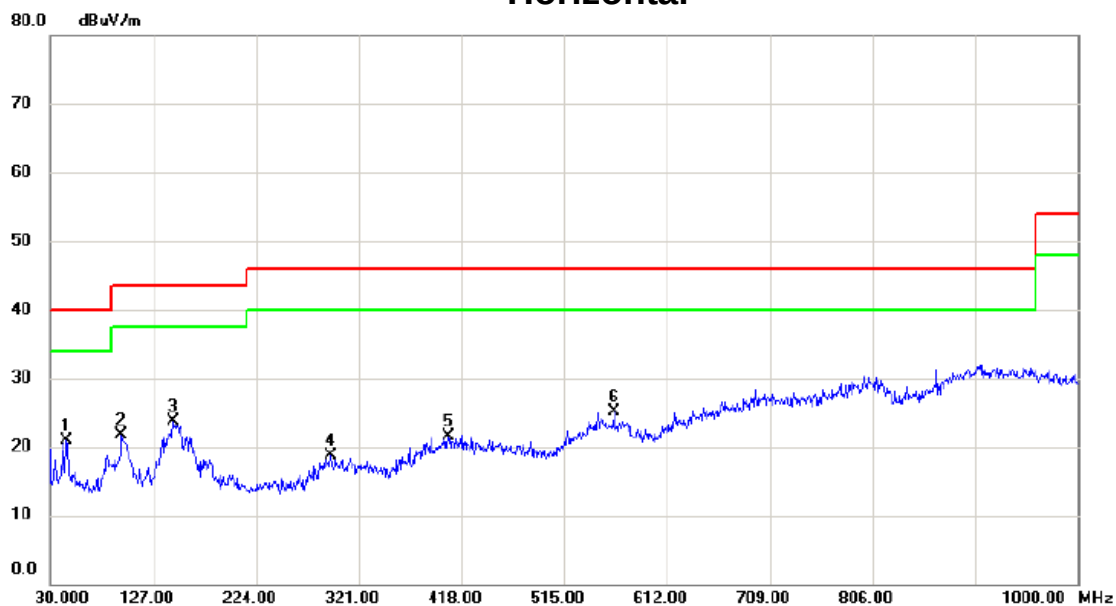
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		42.1250	36.49	-13.46	23.03	40.00	-16.97	peak	
2	*	77.0450	42.29	-16.37	25.92	40.00	-14.08	peak	
3		179.8650	30.17	-12.83	17.34	43.50	-26.16	peak	
4		307.4200	28.64	-10.32	18.32	46.00	-27.68	peak	
5		422.3650	29.23	-7.88	21.35	46.00	-24.65	peak	
6		539.2500	29.86	-5.65	24.21	46.00	-21.79	peak	

Test Mode: TX 2480MHz (Adapter: Phitek)

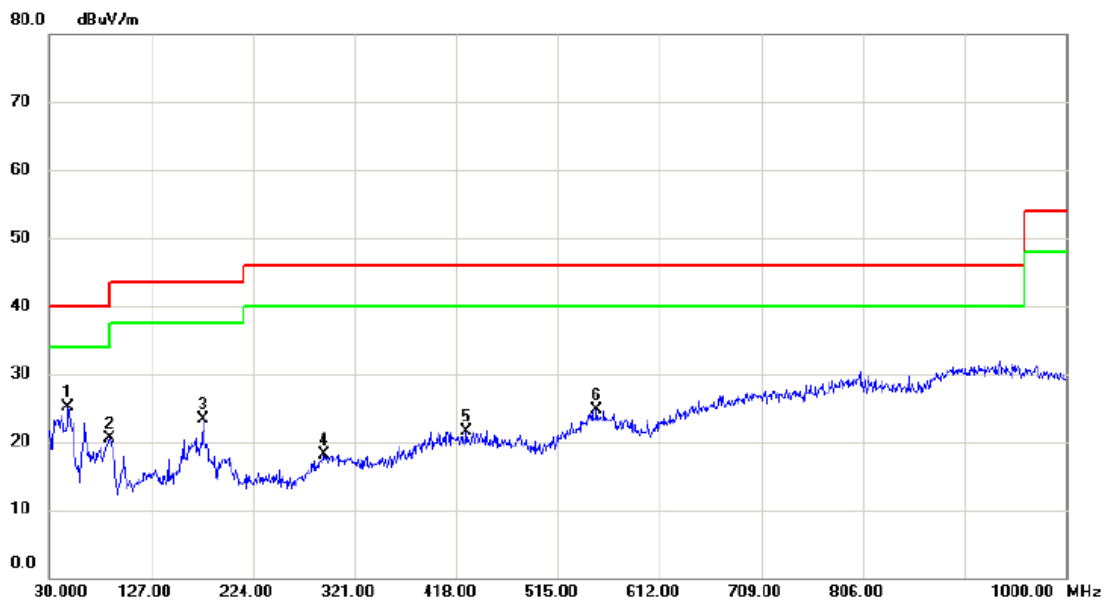
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	45.0350	33.59	-12.75	20.84	40.00	-19.16	peak	
2		96.9300	38.25	-16.60	21.65	43.50	-21.85	peak	
3		145.4300	36.95	-13.32	23.63	43.50	-19.87	peak	
4		294.3250	29.40	-10.78	18.62	46.00	-27.38	peak	
5		405.3900	29.34	-7.80	21.54	46.00	-24.46	peak	
6		562.0450	30.23	-5.15	25.08	46.00	-20.92	peak	

Test Mode: TX 2402MHz (Adapter: Huntkey)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	47.9450	38.11	-13.01	25.10	40.00	-14.90	peak	
2		87.7150	37.86	-17.43	20.43	40.00	-19.57	peak	
3		176.9550	35.93	-12.66	23.27	43.50	-20.23	peak	
4		291.4150	29.28	-11.10	18.18	46.00	-27.82	peak	
5		427.7000	29.35	-7.90	21.45	46.00	-24.55	peak	
6		551.8600	29.39	-4.63	24.76	46.00	-21.24	peak	

Test Mode: TX 2402MHz (Adapter: Huntkey)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	40.6700	36.07	-13.77	22.30	40.00	-17.70	peak	
2		164.3450	36.17	-12.19	23.98	43.50	-19.52	peak	
3		223.5150	32.29	-13.94	18.35	46.00	-27.65	peak	
4		297.2350	30.46	-10.47	19.99	46.00	-26.01	peak	
5		397.6300	29.24	-7.94	21.30	46.00	-24.70	peak	
6		549.9200	29.45	-4.55	24.90	46.00	-21.10	peak	

Test Mode: TX 2480MHz (Adapter: Huntkey)

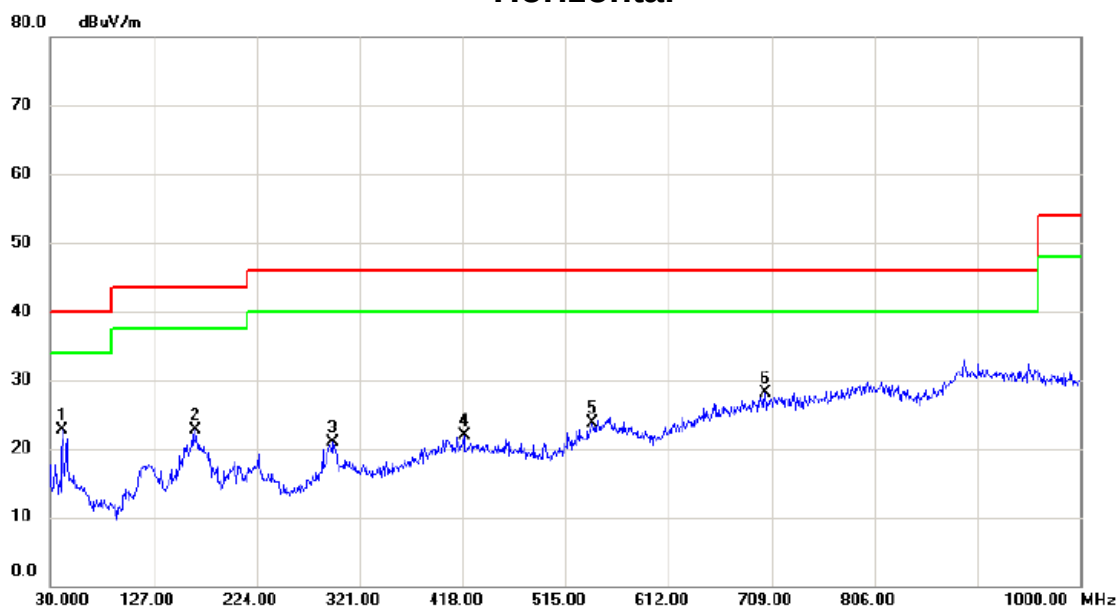
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	66.8600	40.92	-15.67	25.25	40.00	-14.75	peak	
2		156.1000	35.06	-12.46	22.60	43.50	-20.90	peak	
3		294.8100	29.26	-10.72	18.54	46.00	-27.46	peak	
4		438.8550	30.06	-7.95	22.11	46.00	-23.89	peak	
5		555.2550	29.19	-4.81	24.38	46.00	-21.62	peak	
6		710.9400	30.80	-2.06	28.74	46.00	-17.26	peak	

Test Mode: TX 2480MHz (Adapter: Huntkey)

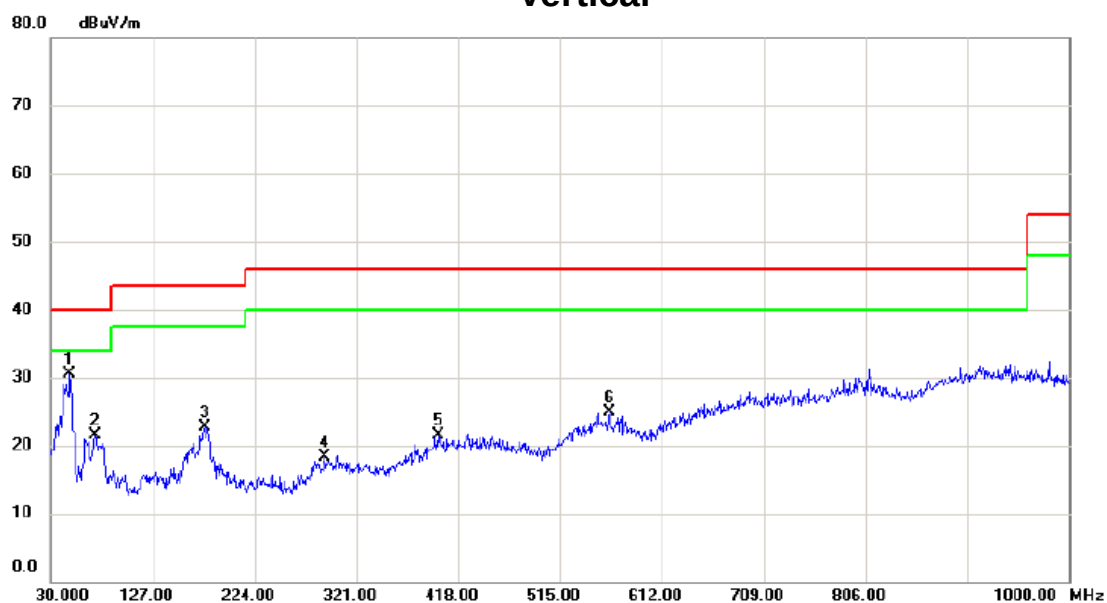
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	40.6700	36.56	-13.77	22.79	40.00	-17.21	peak	
2		166.7700	34.84	-12.21	22.63	43.50	-20.87	peak	
3		296.2650	31.56	-10.57	20.99	46.00	-25.01	peak	
4		419.4550	29.82	-7.87	21.95	46.00	-24.05	peak	
5		540.2200	29.32	-5.55	23.77	46.00	-22.23	peak	
6		703.1800	30.20	-2.09	28.11	46.00	-17.89	peak	

Test Mode: TX 2402MHz (Adapter: BYD)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	47.9450	43.53	-13.01	30.52	40.00	-9.48	peak	
2		72.1950	37.98	-16.55	21.43	40.00	-18.57	peak	
3		176.4700	35.30	-12.62	22.68	43.50	-20.82	peak	
4		290.9300	29.44	-11.15	18.29	46.00	-27.71	peak	
5		398.6000	29.41	-7.88	21.53	46.00	-24.47	peak	
6		562.5300	30.00	-5.17	24.83	46.00	-21.17	peak	

Test Mode: TX 2402MHz (Adapter: BYD)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		44.5500	33.09	-12.90	20.19	40.00	-19.81	peak	
2		157.5550	37.17	-12.34	24.83	43.50	-18.67	peak	
3		287.0500	29.81	-11.49	18.32	46.00	-27.68	peak	
4		422.3650	30.31	-7.88	22.43	46.00	-23.57	peak	
5		547.4950	29.84	-4.80	25.04	46.00	-20.96	peak	
6	*	697.3600	30.16	-2.21	27.95	46.00	-18.05	peak	

Test Mode: TX 2480MHz (Adapter: BYD)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	48.4300	44.08	-13.11	30.97	40.00	-9.03	peak	
2		170.6500	35.63	-12.29	23.34	43.50	-20.16	peak	
3		292.3850	29.60	-10.99	18.61	46.00	-27.39	peak	
4		421.3950	29.74	-7.87	21.87	46.00	-24.13	peak	
5		541.6750	29.91	-5.40	24.51	46.00	-21.49	peak	
6		719.1850	30.01	-2.05	27.96	46.00	-18.04	peak	

Test Mode: TX 2480MHz (Adapter: BYD)

Horizontal

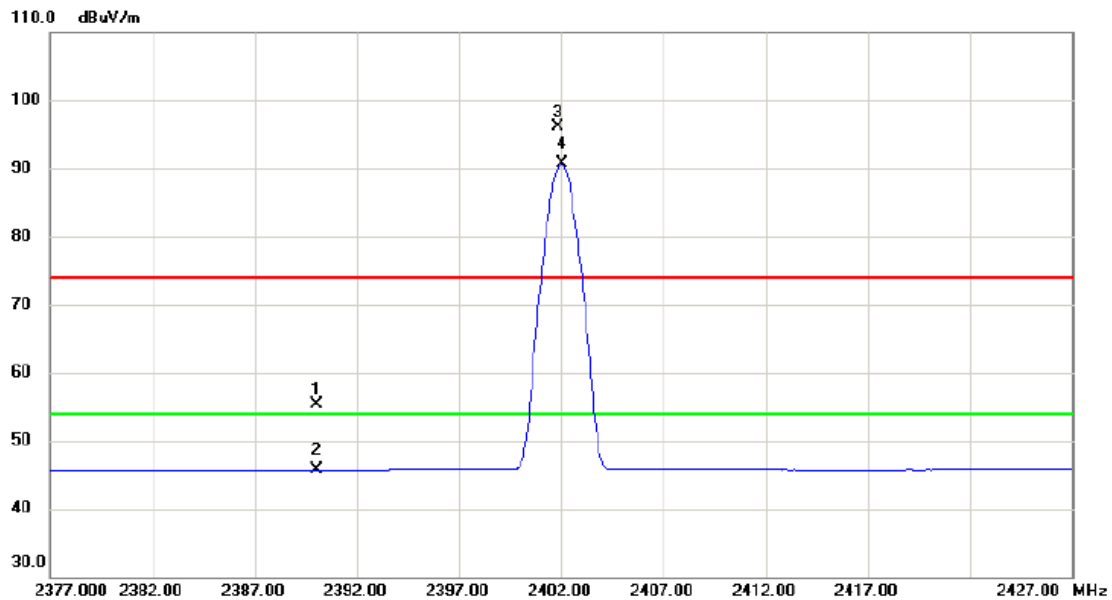


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		40.6700	35.14	-13.77	21.37	40.00	-18.63	peak	
2		163.3750	36.00	-12.18	23.82	43.50	-19.68	peak	
3		300.1450	29.05	-10.16	18.89	46.00	-27.11	peak	
4		424.3050	28.97	-7.89	21.08	46.00	-24.92	peak	
5		545.5550	29.31	-5.00	24.31	46.00	-21.69	peak	
6	*	704.1500	30.64	-2.09	28.55	46.00	-17.45	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX 2402MHz

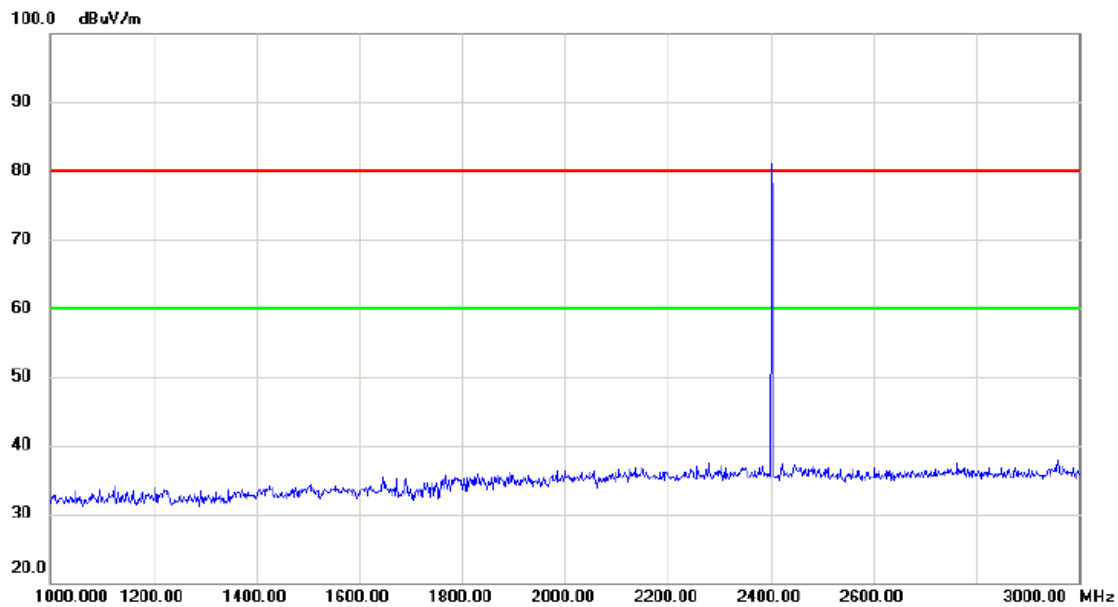
Vertical



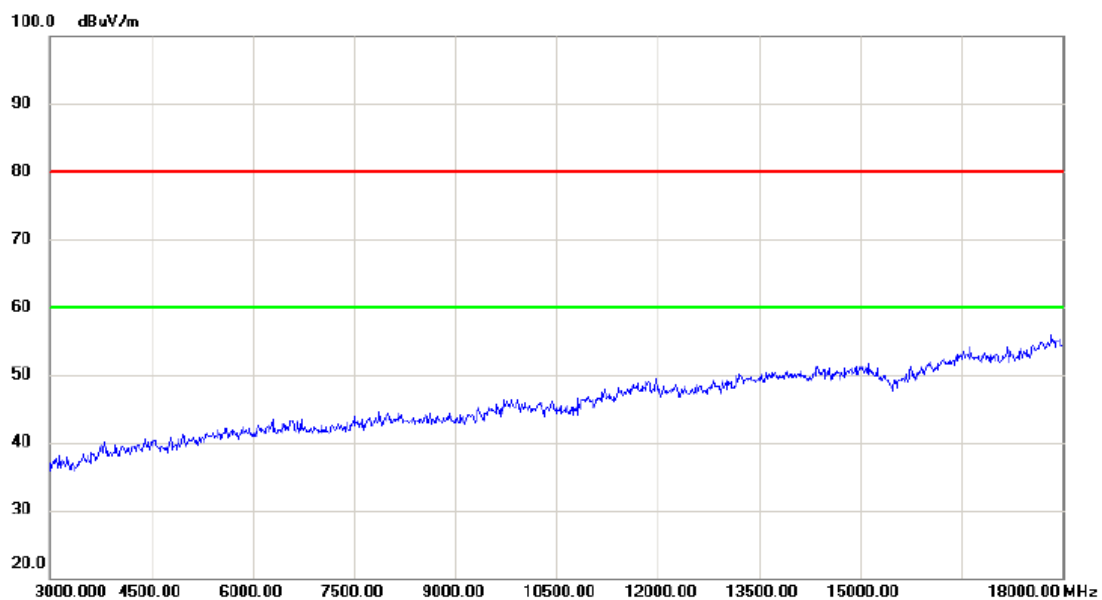
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	21.48	33.87	55.35	74.00	-18.65	peak	
2		2390.000	11.85	33.87	45.72	54.00	-8.28	AVG	
3	X	2401.800	62.06	33.95	96.01	74.00	22.01	peak	No Limit
4	*	2402.000	56.68	33.95	90.63	54.00	36.63	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2402MHz

Vertical

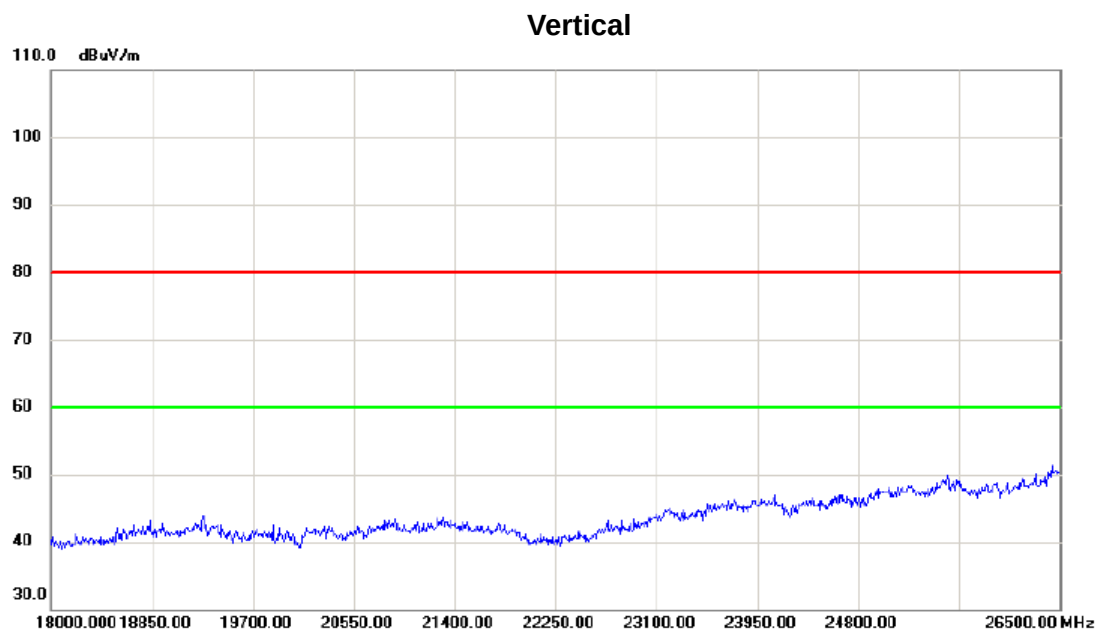


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



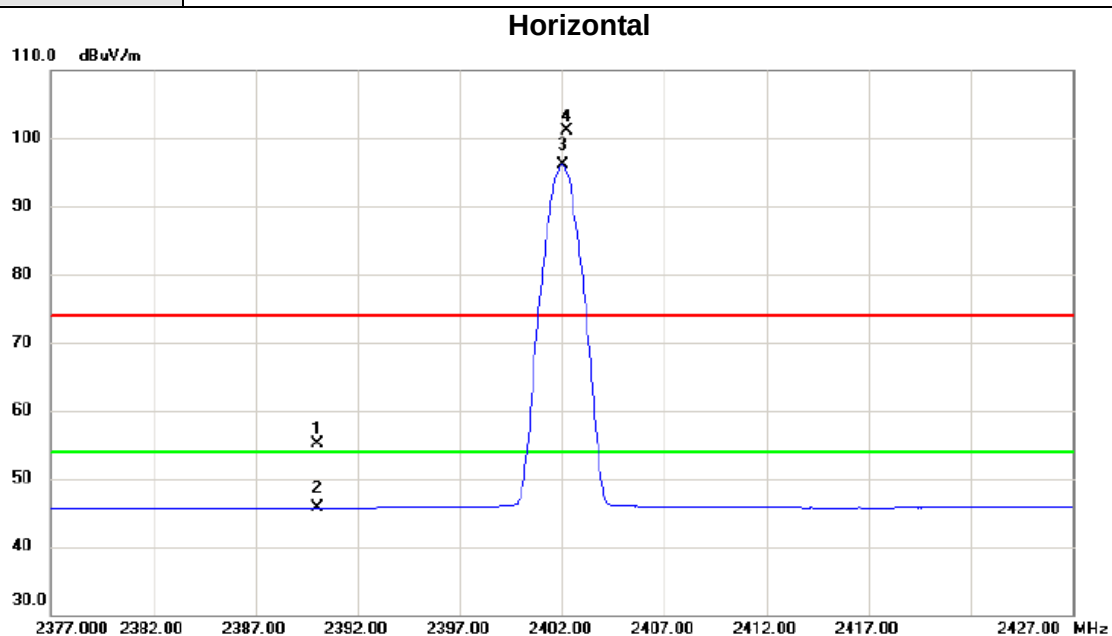
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

Orthogonal Axis :	X
Test Mode :	TX 2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

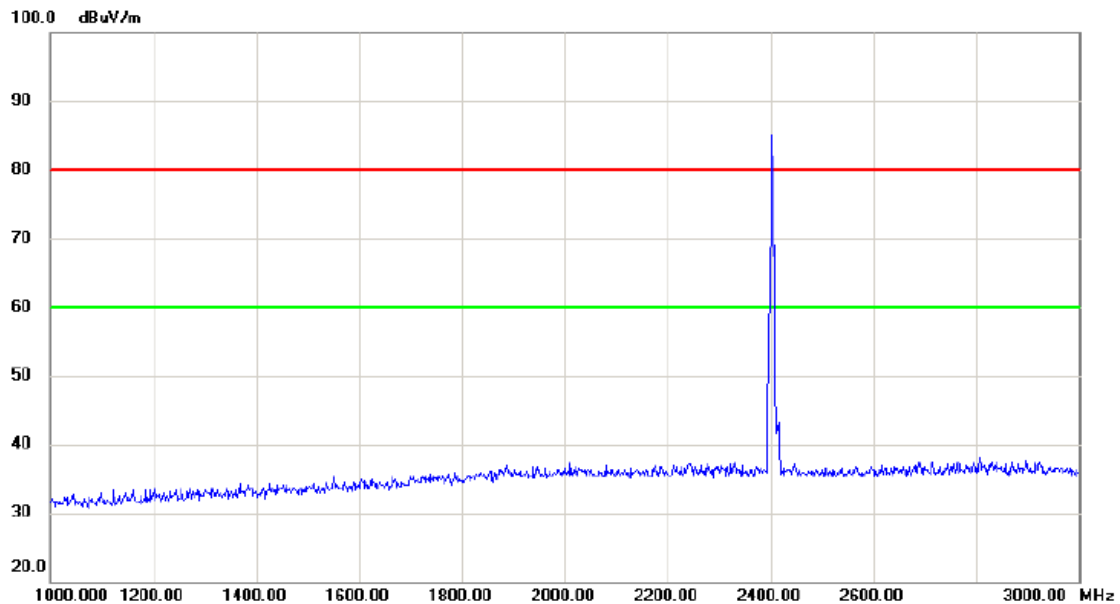
Orthogonal Axis :	X
Test Mode :	TX 2402MHz



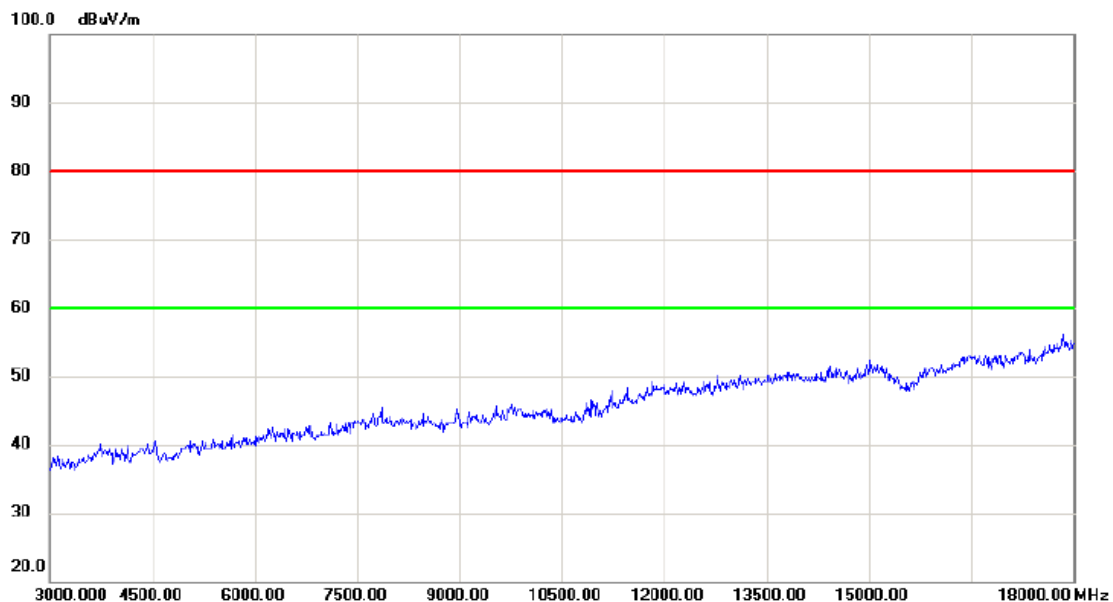
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	21.21	33.87	55.08	74.00	-18.92	peak	
2		2390.000	11.85	33.87	45.72	54.00	-8.28	AVG	
3	*	2402.000	62.09	33.95	96.04	54.00	42.04	AVG	No Limit
4	X	2402.250	67.23	33.95	101.18	74.00	27.18	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2402MHz

Horizontal

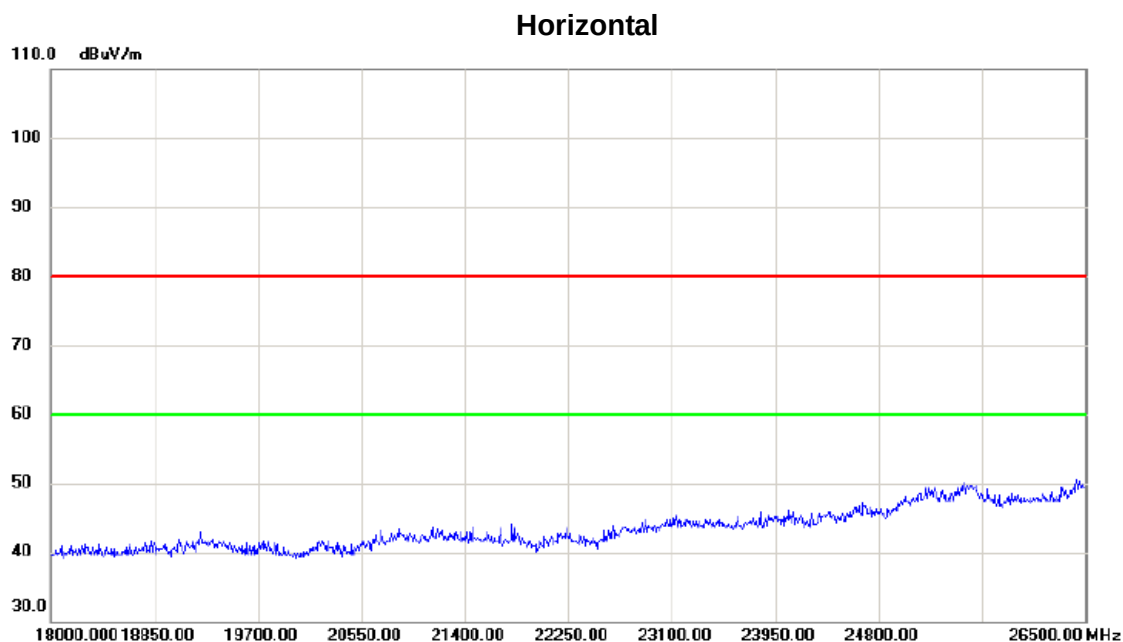


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



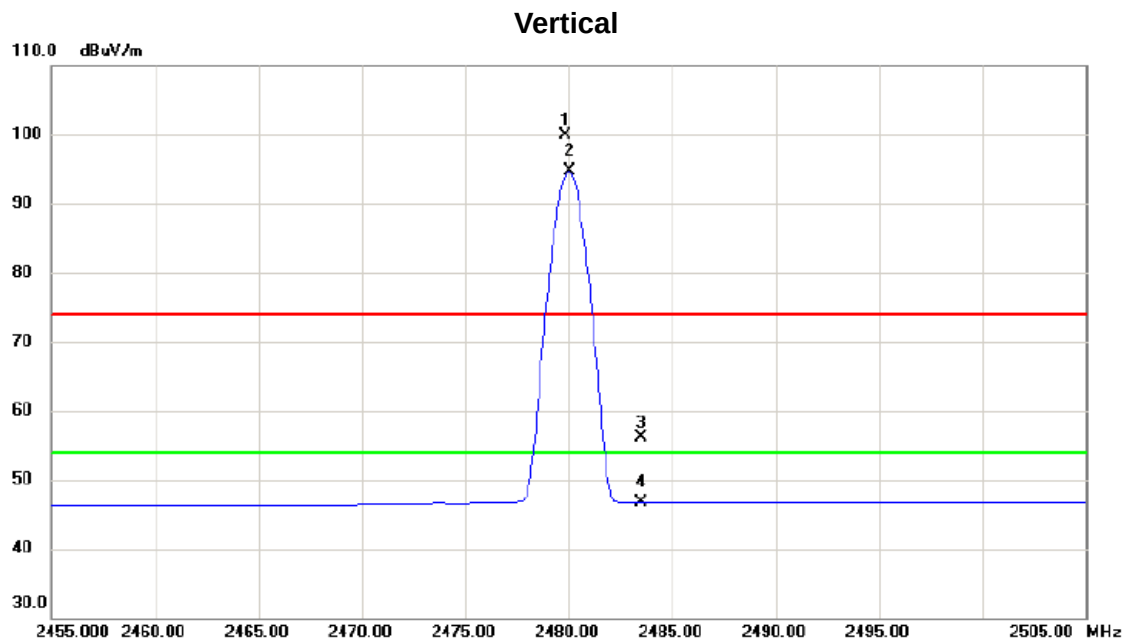
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

Orthogonal Axis :	X
Test Mode :	TX 2402MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

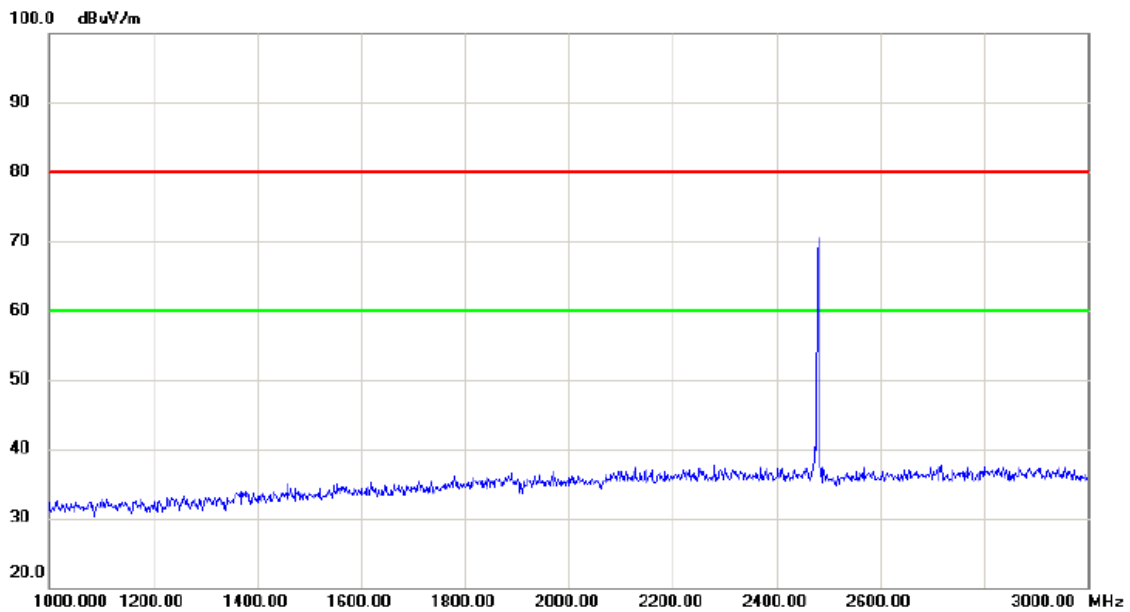
Orthogonal Axis :	X
Test Mode :	TX 2480MHz



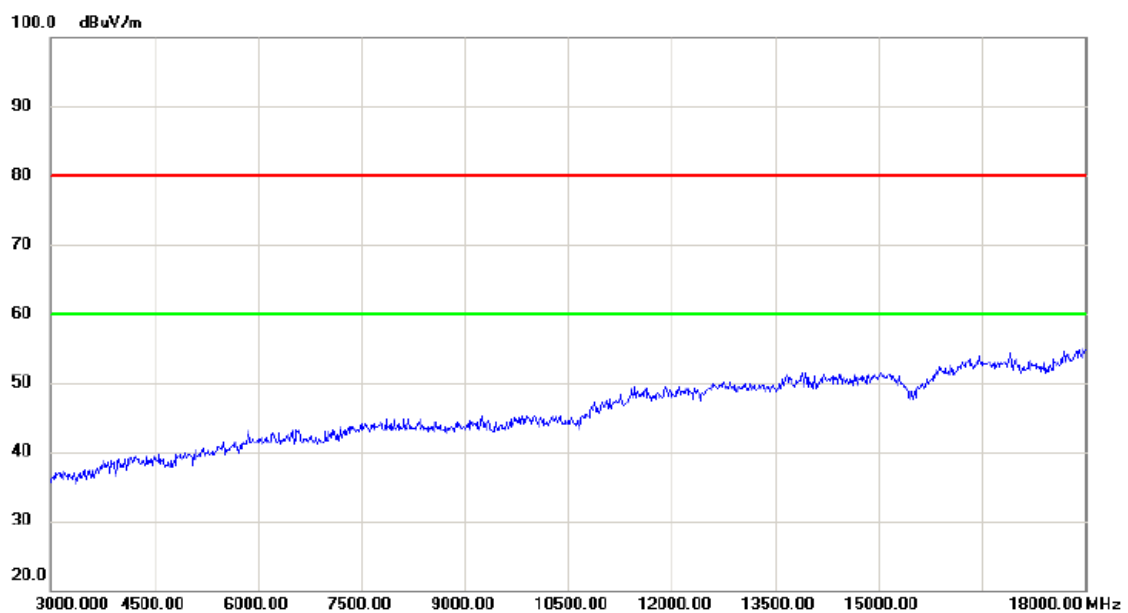
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2479.800	65.55	34.40	99.95	74.00	25.95	peak	No Limit
2	*	2480.000	60.24	34.40	94.64	54.00	40.64	AVG	No Limit
3		2483.500	21.74	34.41	56.15	74.00	-17.85	peak	
4		2483.500	12.24	34.41	46.65	54.00	-7.35	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz

Vertical



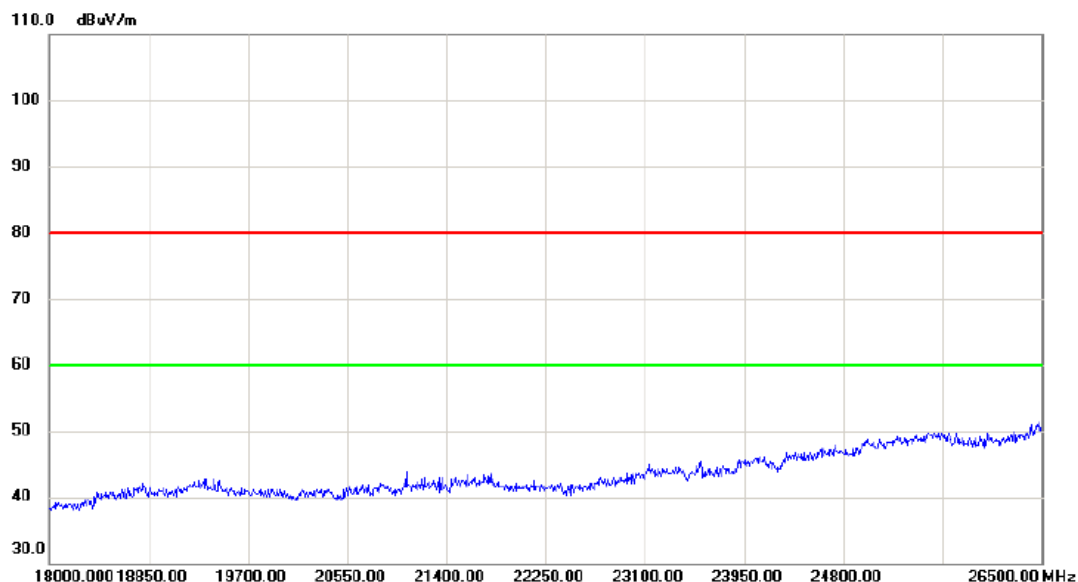
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

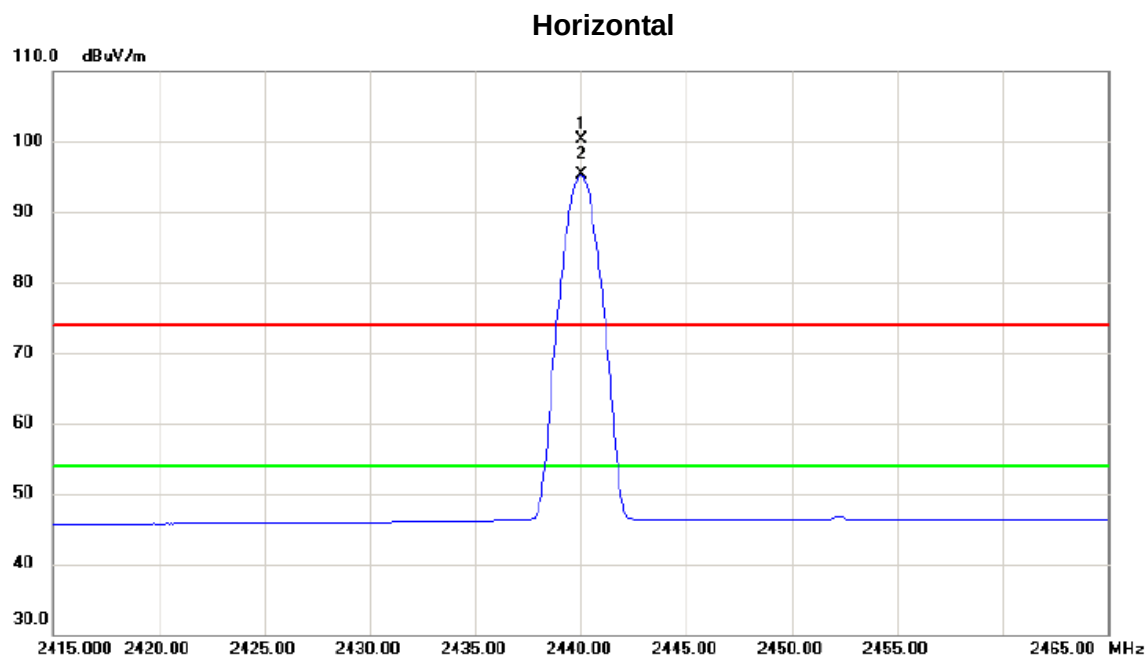
Orthogonal Axis :	X
Test Mode :	TX 2480MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

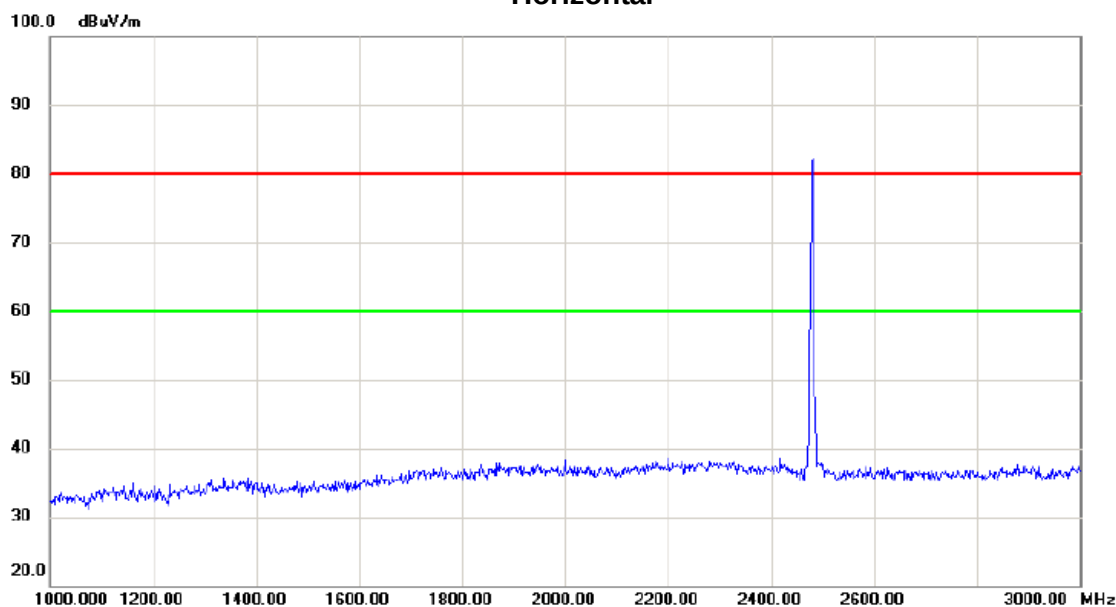
Orthogonal Axis :	X
Test Mode :	TX 2480MHz



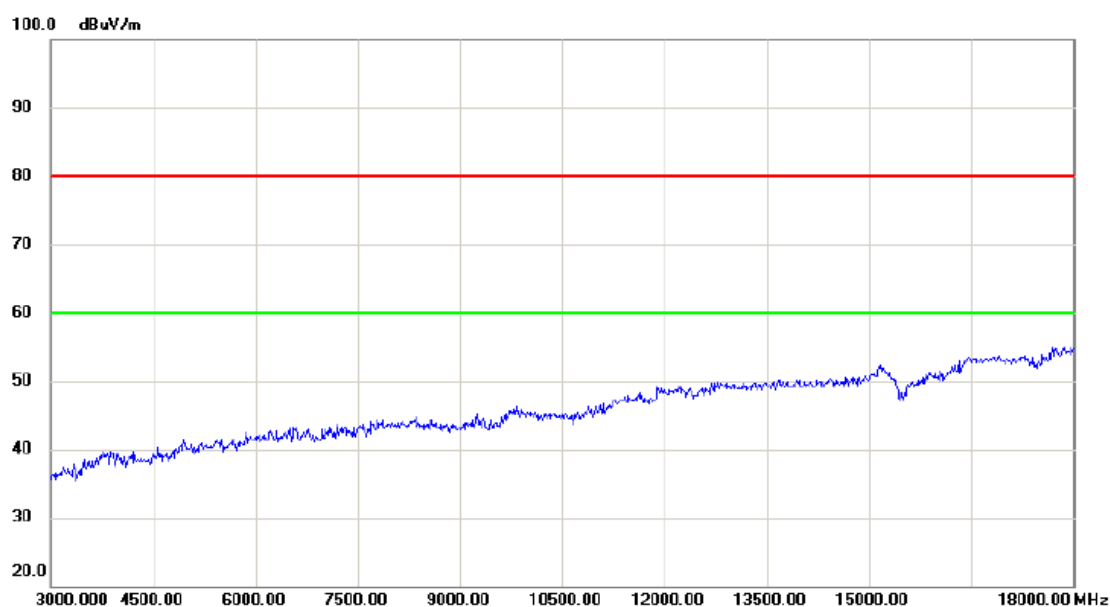
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2440.000	66.19	34.16	100.35	74.00	26.35	peak	No Limit
2	*	2440.000	61.15	34.16	95.31	54.00	41.31	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2480MHz

Horizontal

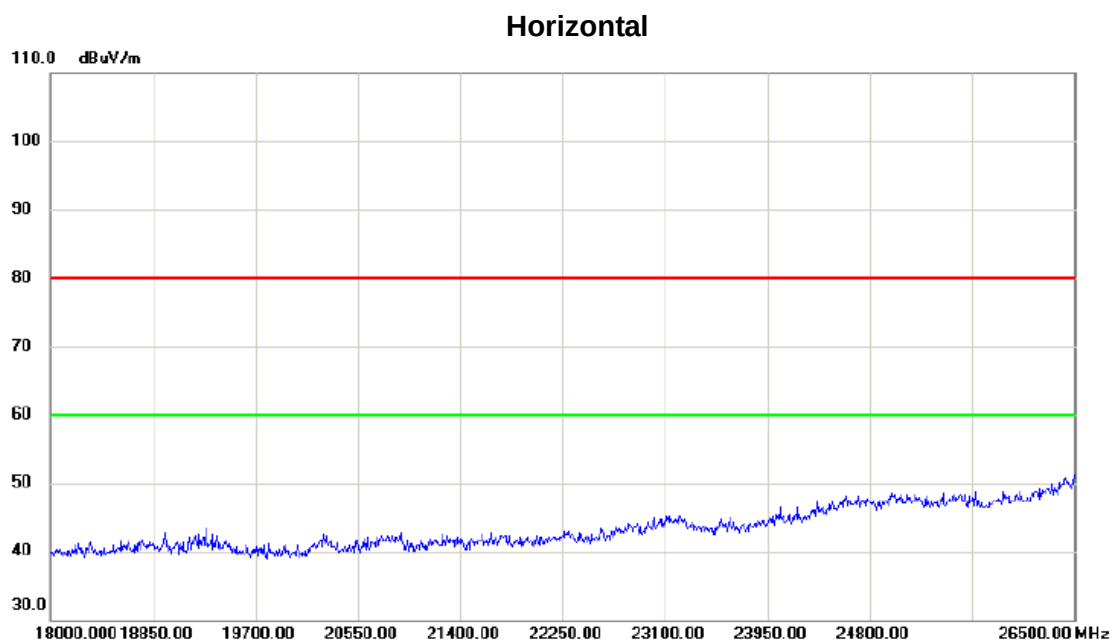


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

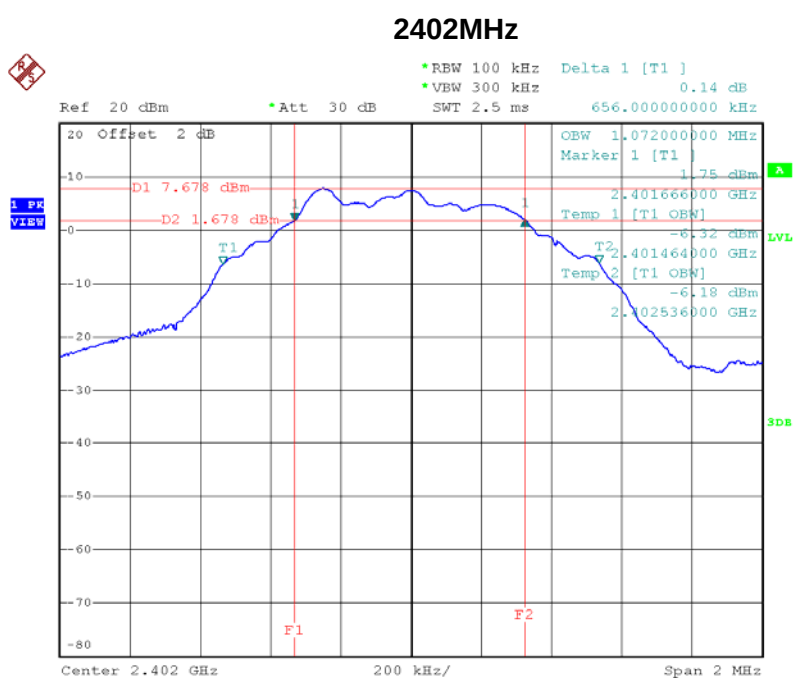
Orthogonal Axis :	X
Test Mode :	TX 2480MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

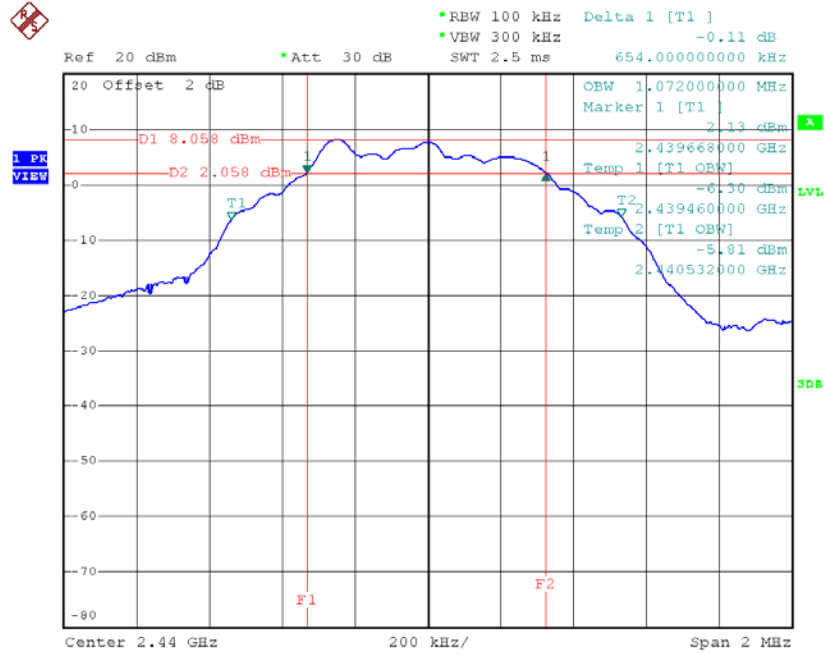
ATTACHMENT E - BANDWIDTH

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.656	1.072	500	Complies
2440	0.654	1.072	500	Complies
2480	0.653	1.076	500	Complies



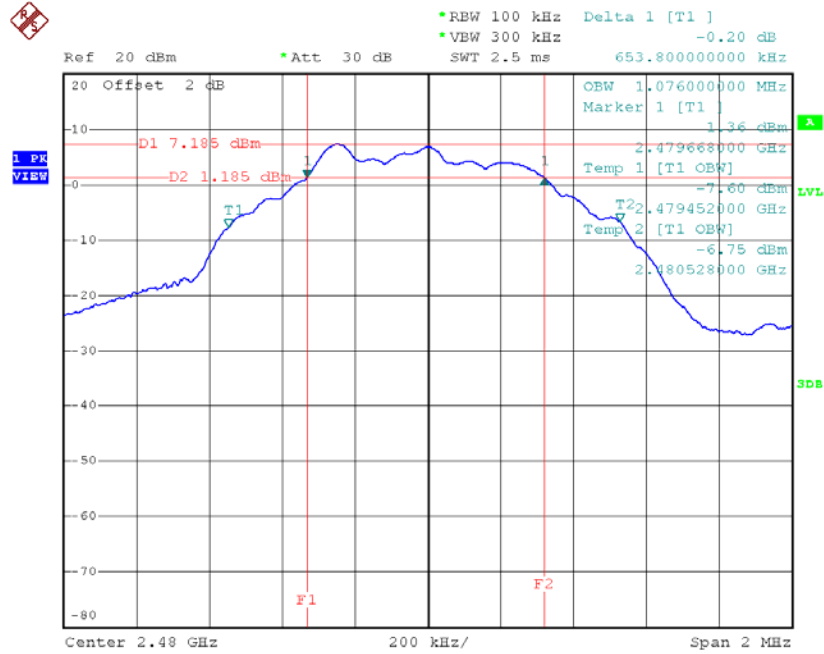
Date: 9.SEP.2016 10:15:46

2440MHz



Date: 9.SEP.2016 10:19:16

2480MHz



Date: 9.SEP.2016 10:20:59

ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

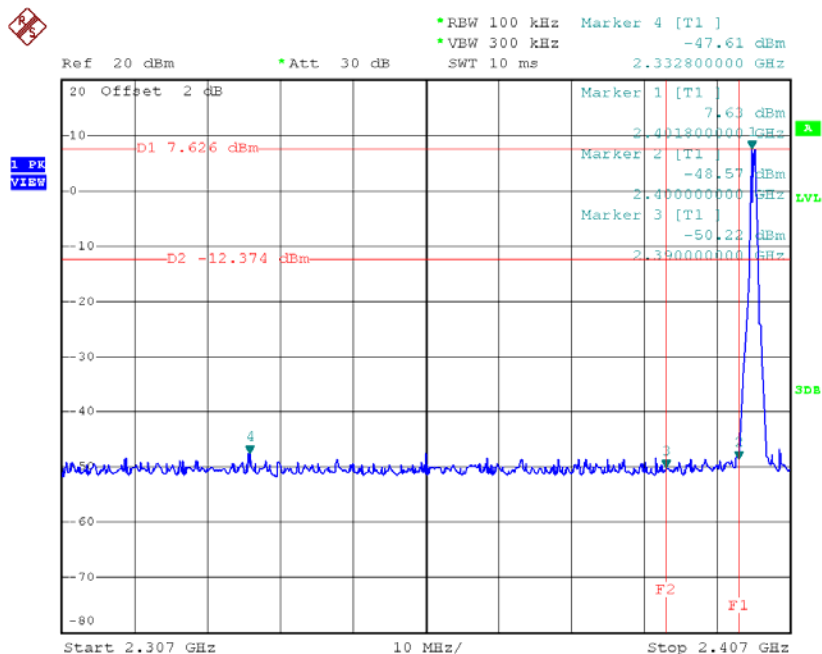
Test Mode :	TX Mode
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	7.57	0.0057	30.00	1.00	Complies
2440	7.25	0.0053	30.00	1.00	Complies
2480	6.58	0.0045	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

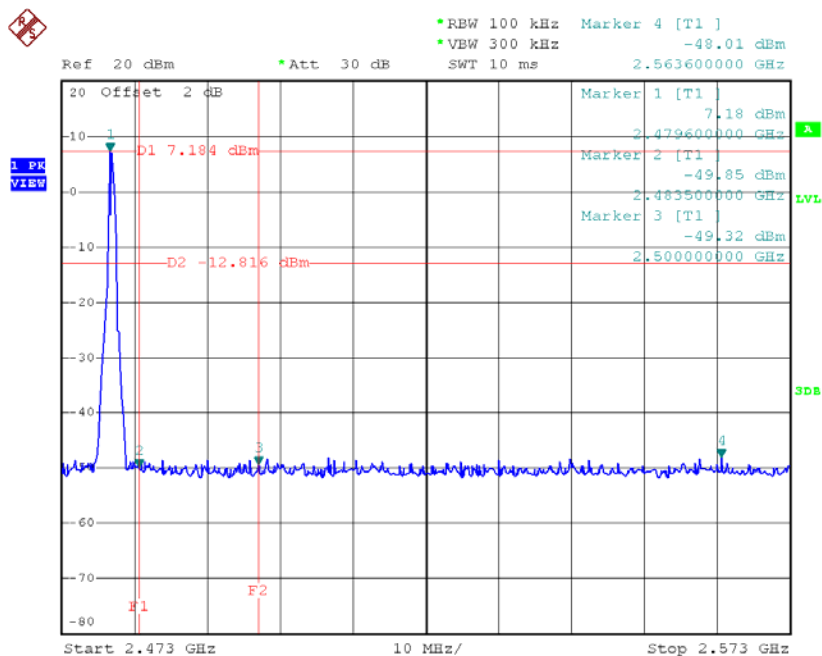
Test Mode : TX Mode

2402MHz (Lower)



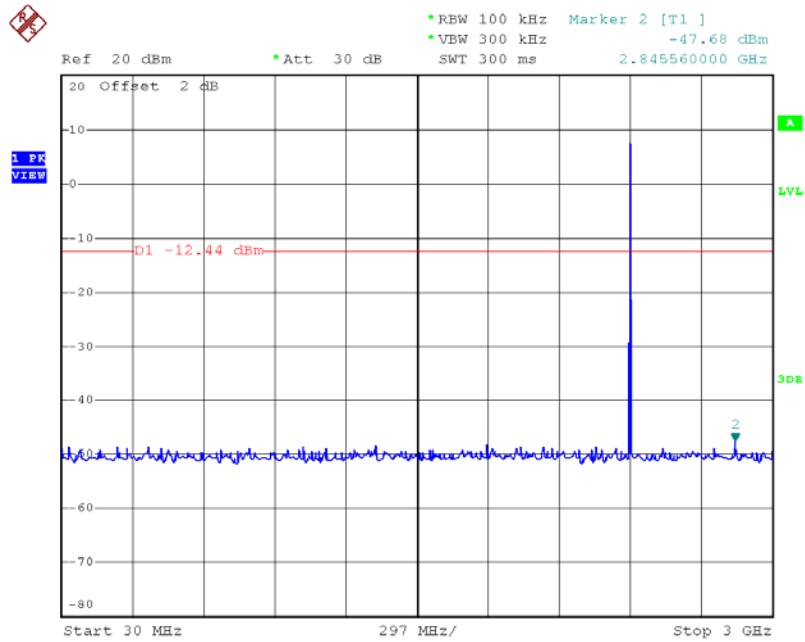
Date: 9.SEP.2016 10:16:04

2480MHz (upper)

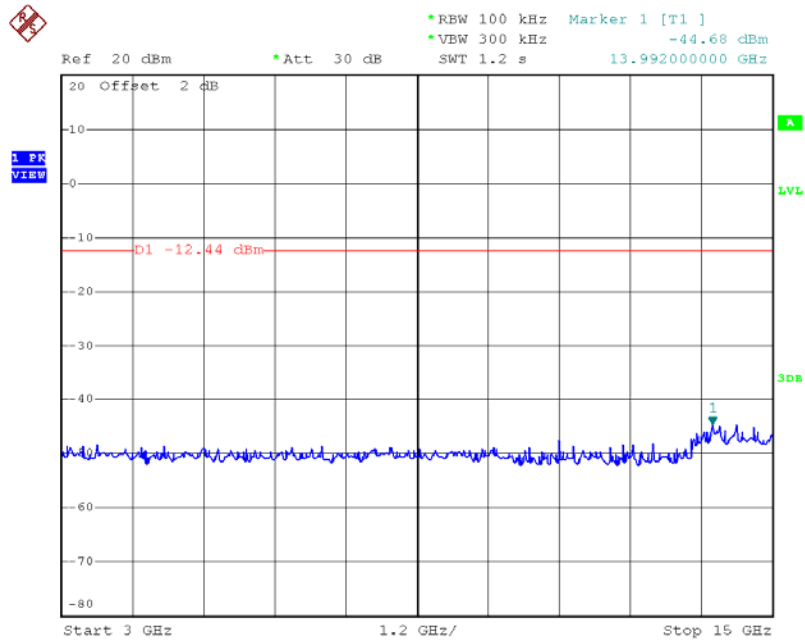


Date: 9.SEP.2016 10:21:17

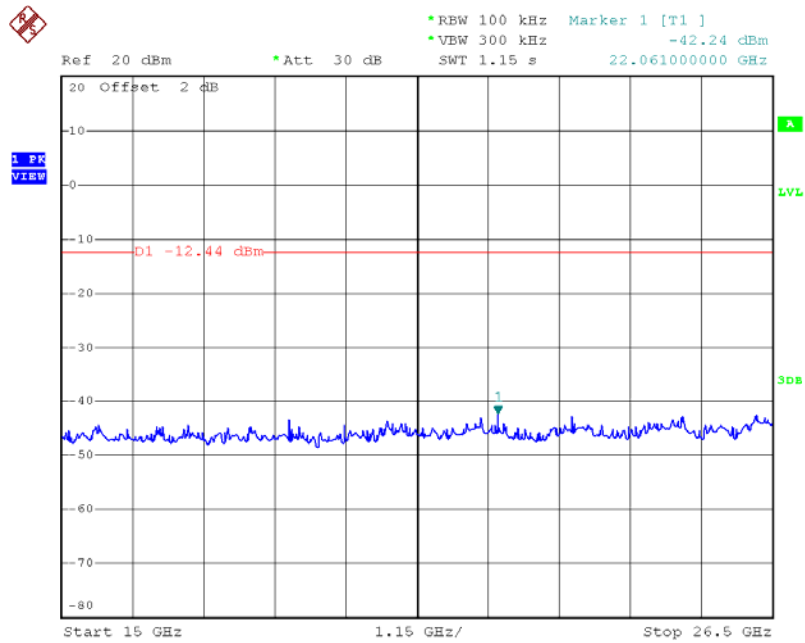
2402MHz (10 Harmonic of the frequency)



Date: 9.SEP.2016 10:16:18

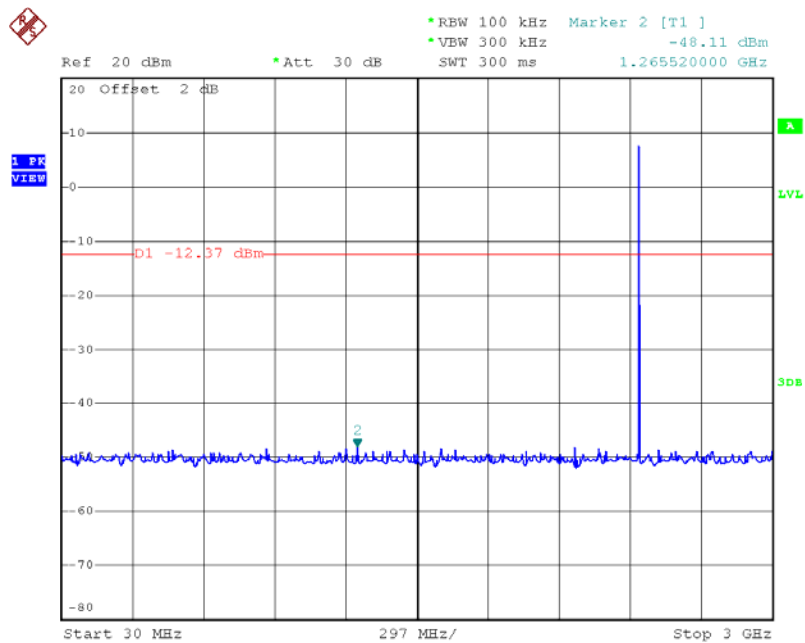


Date: 9.SEP.2016 10:16:27

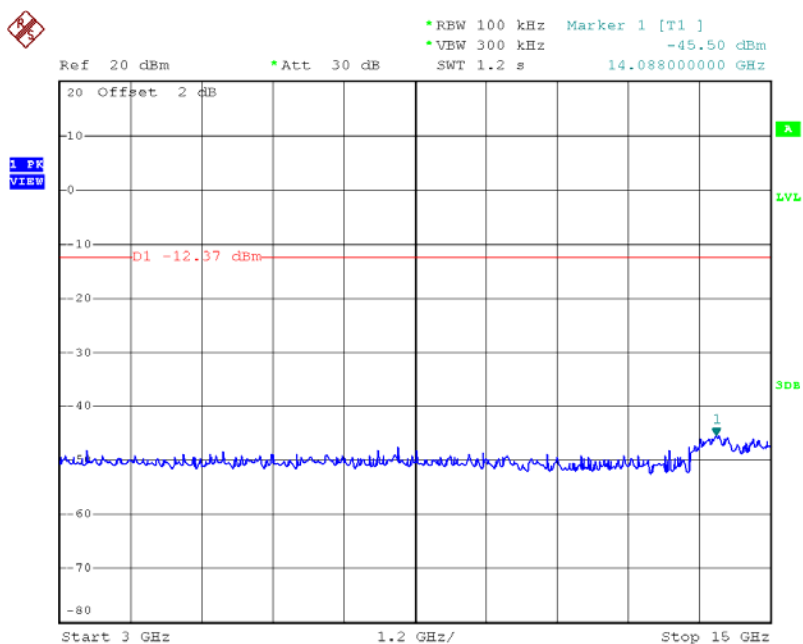


Date: 9.SEP.2016 10:16:35

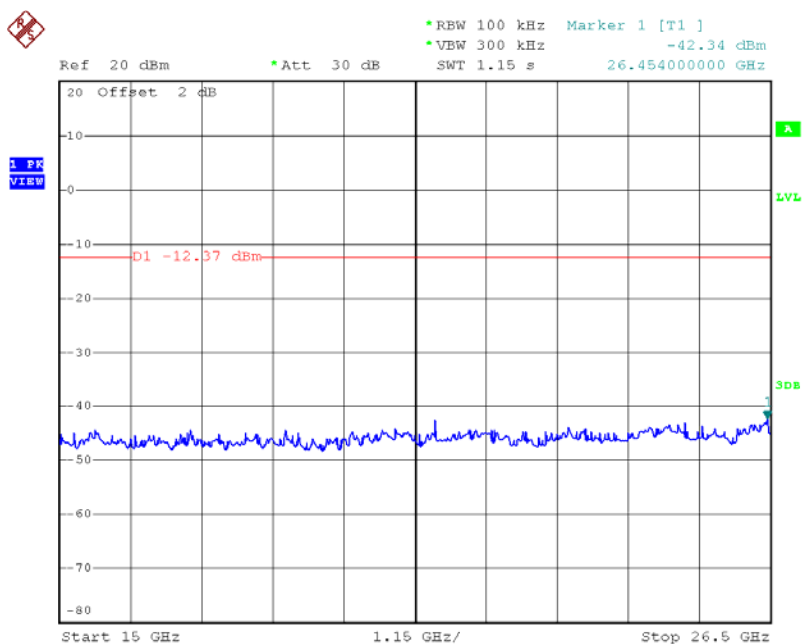
2440MHz (10 Harmonic of the frequency)



Date: 9.SEP.2016 10:19:29

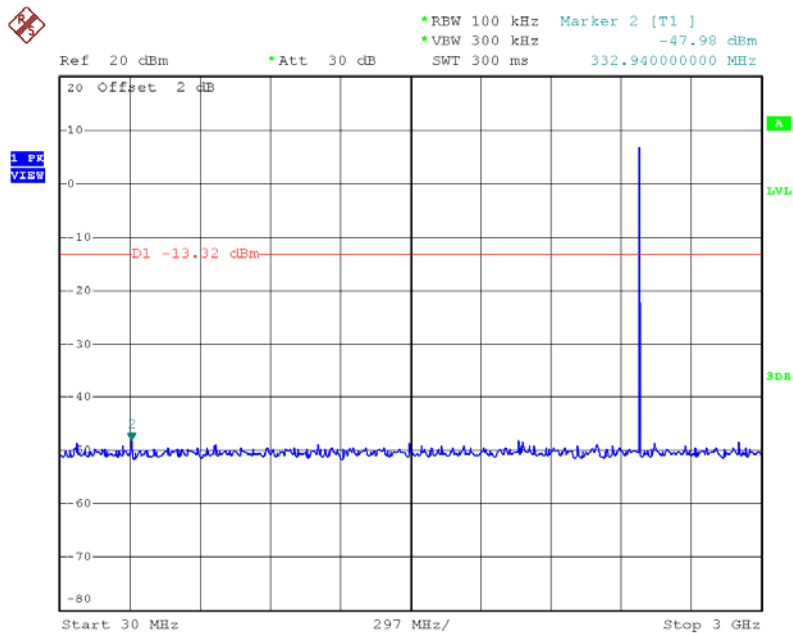


Date: 9.SEP.2016 10:19:38

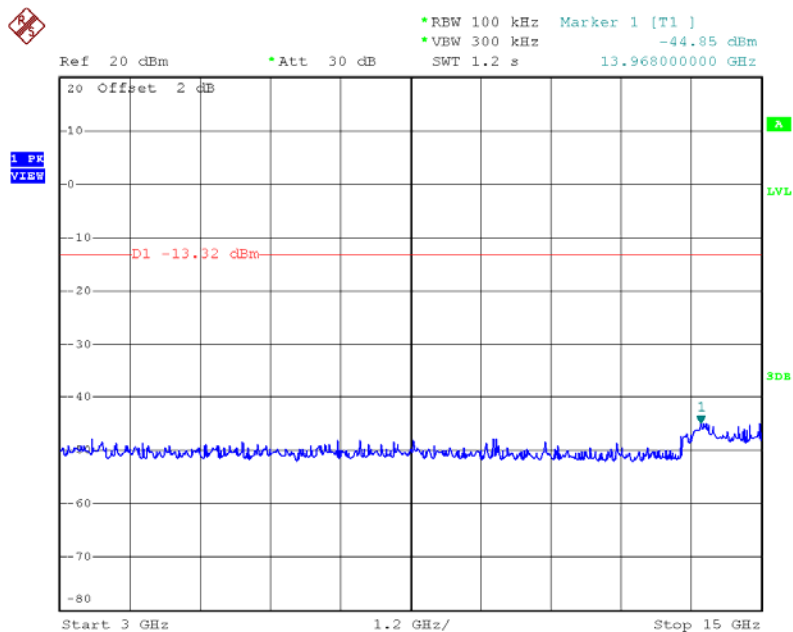


Date: 9.SEP.2016 10:19:46

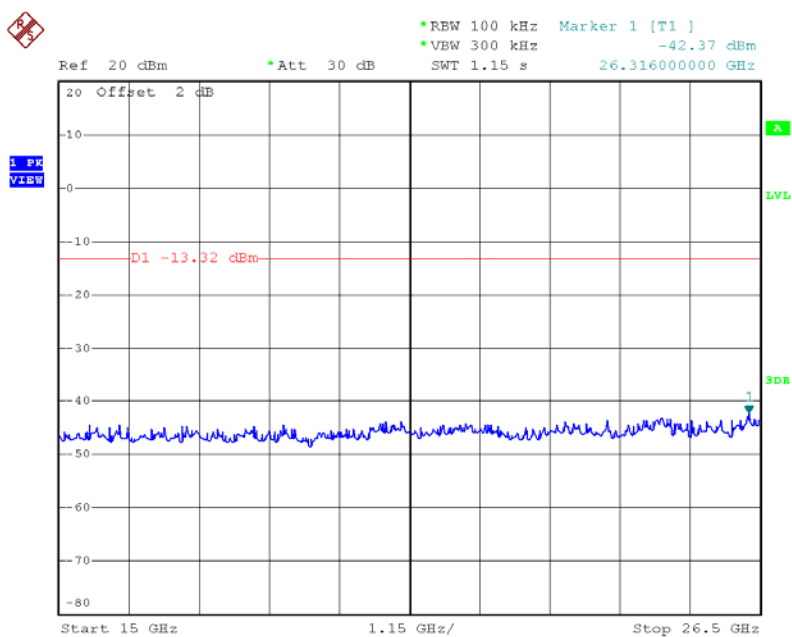
2480MHz (10 Harmonic of the frequency)



Date: 9.SEP.2016 10:21:31



Date: 9.SEP.2016 10:21:39

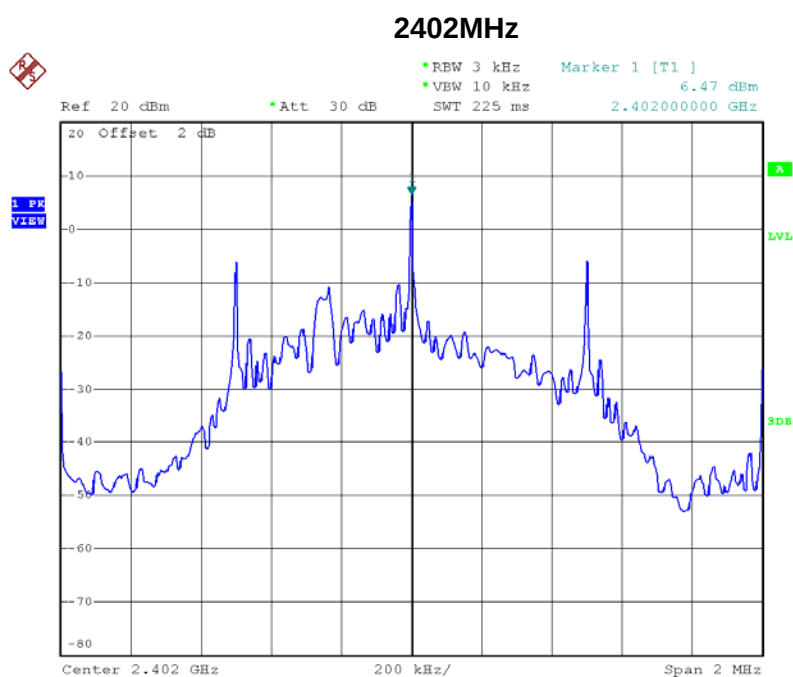


Date: 9.SEP.2016 10:21:47

ATTACHMENT H - POWER SPECTRAL DENSITY TEST

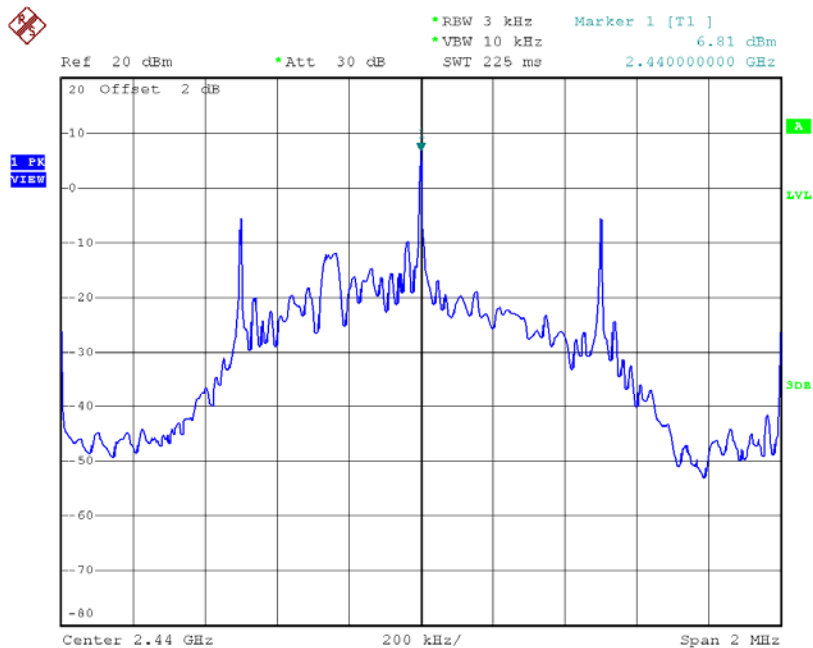
Test Mode :	TX Mode
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Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	6.47	8	Complies
2440	6.81	8	Complies
2480	5.80	8	Complies



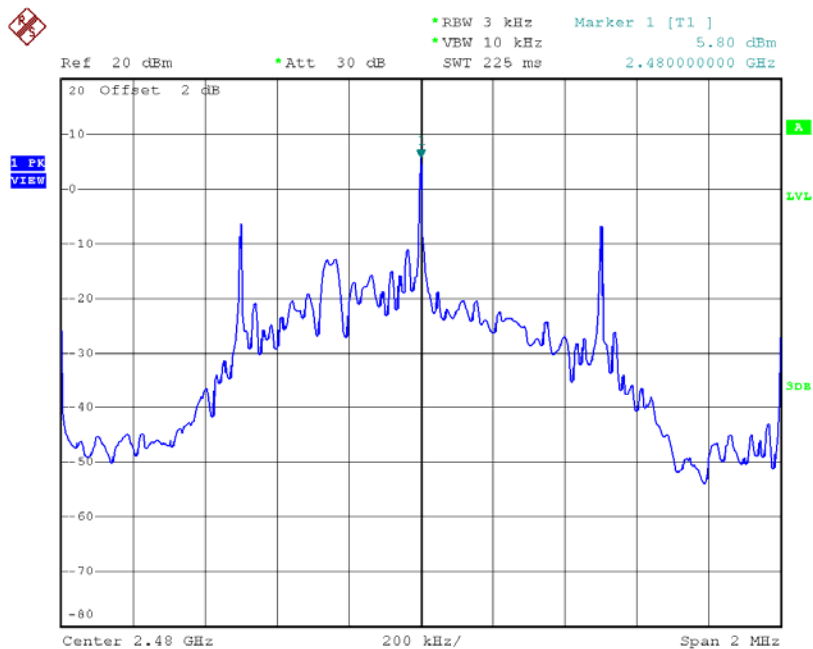
Date: 9.SEP.2016 10:18:25

2440MHz



Date: 9.SEP.2016 10:20:03

2480MHz



Date: 9.SEP.2016 10:22:03