

FCC Radio Test Report

FCC ID: QWHLIVEMINI

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

Project No. : 1711C027
Equipment : Portable Speaker
Test Model : LIVE MINI
Series Model : N/A
Applicant : MUSIC Group Manufacturing PH Ltd.
Address : 17A Brunswick Street Hamilton HM 10 Bermuda

Date of Receipt : Nov. 06, 2017
Date of Test : Nov. 06, 2017 ~ Dec. 08, 2017
Issued Date : Dec. 11, 2017
Tested by : BTL Inc.

Testing Engineer : Welly Zhou
(Welly Zhou)

Technical Manager : Shawn Xiao
(Shawn Xiao)

Authorized Signatory : Steven Lu
(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1711C027	Original Issue.	Dec. 11, 2017

1. CERTIFICATION

Equipment : Portable Speaker
Brand Name : TANNOY
Test Model : LIVE MINI
Series Model : N/A
Applicant : MUSIC Group Manufacturing PH Ltd.
Manufacturer : MUSIC Group Manufacturing PH Ltd.
Address : 17A Brunswick Street Hamilton HM 10 Bermuda
Factory : Zhongshan Eurotec Electronics Ltd.
Address : No.10 Wanmei Road, South China Modern Chinese Medicine Park, Nanlang
Town, Zhongshan City, Guangdong Province, P.R. China
Date of Test : Nov. 06, 2017 ~ Dec. 08, 2017
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-2-1711C027) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth 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	
15.247(d)/ 15.205/ 15.209	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: 854385

BTL's designation number for FCC: CN5020

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 BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

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	Portable Speaker	
Brand Name	TANNOY	
Test Model	LIVE MINI	
Series Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps)
	Bit Rate of Transmitter	
	Output Power (Max.)	-2.74 dBm (1Mbps)
Power Source	DC Voltage supplied from AC/DC adapter. #1 Model: GPE018A-050200-Z #2 Model: S018BAM0500200	
Power Rating	#1 I:P: 100-240V~50/60Hz 0.5A O/P:5.0V $\overline{\text{---}}$ 2000mA #2 I:P: 100-240V~50/60Hz 500mA O/P:5.0V $\overline{\text{---}}$ 2000mA	

Note:

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

2. 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	TANNOY	N/A	PCB	N/A	1.5

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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

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

Note:

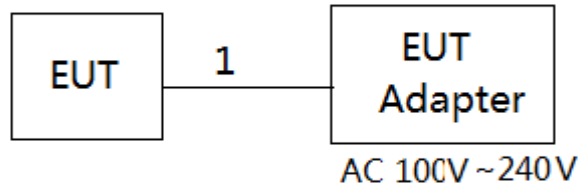
(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEST 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	BlueTest3		
	2402	2440	2480
Frequency (MHz)	2402	2440	2480
BT LE	N/A	N/A	N/A

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 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	N/A	1.5m	AC 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 (dB μ V)	
	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 = Insertion Loss + Cable Loss + Attenuator Factor(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

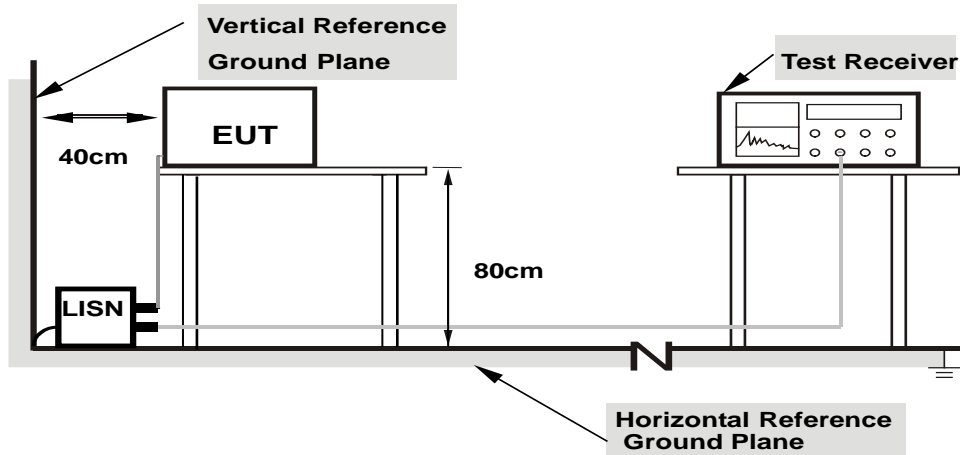
4.1.2 TEST PROCEDURE

- 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 fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix 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)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

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

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

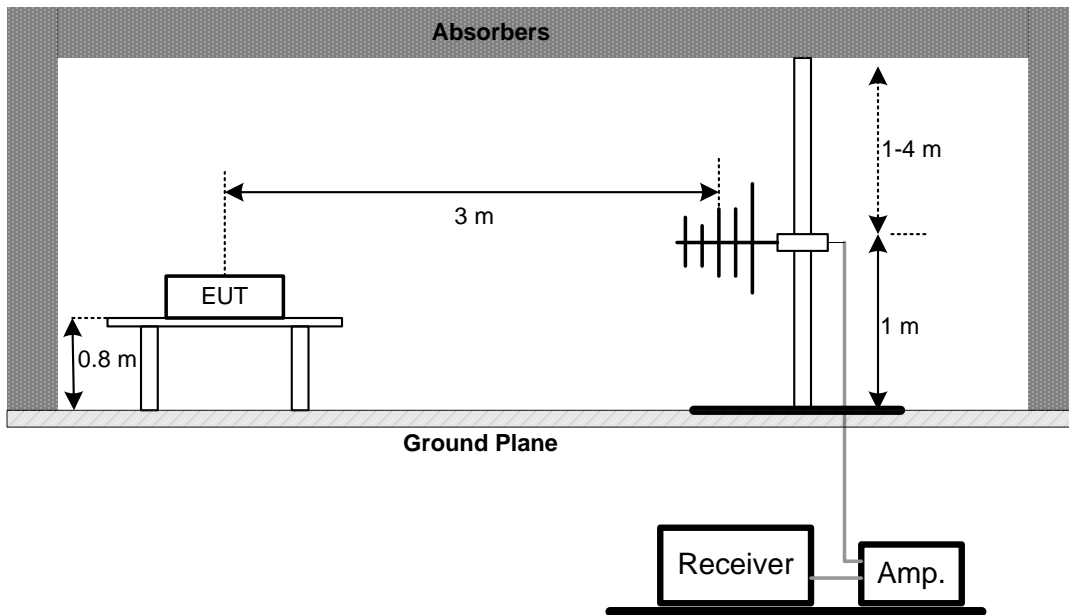
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 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)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
- d. 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).
- e. 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.
- f. 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.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

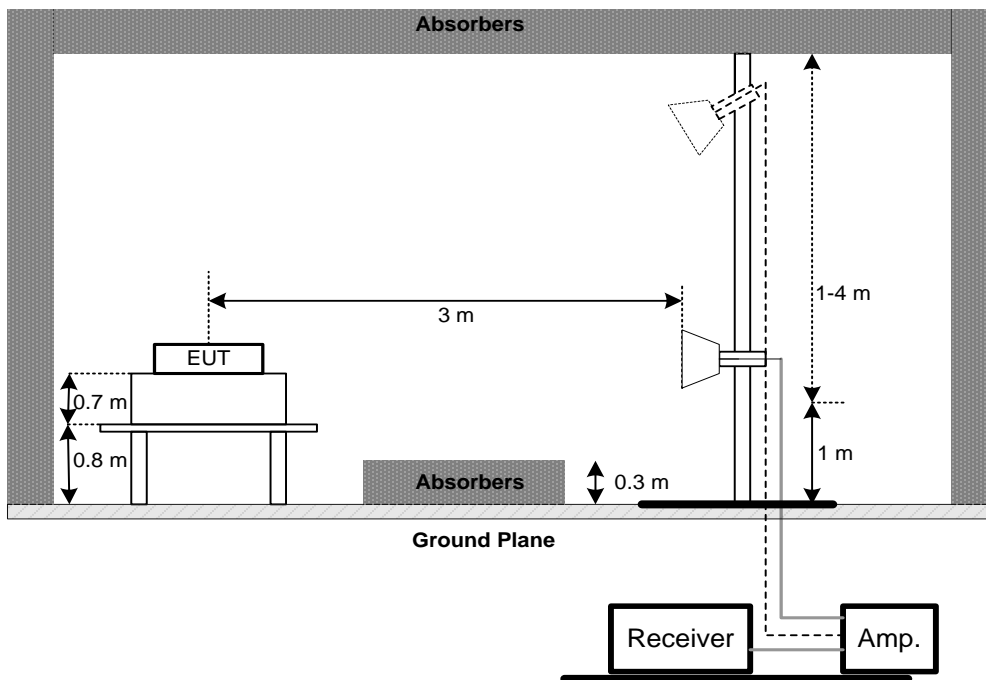
No deviation

4.2.4 TEST SETUP

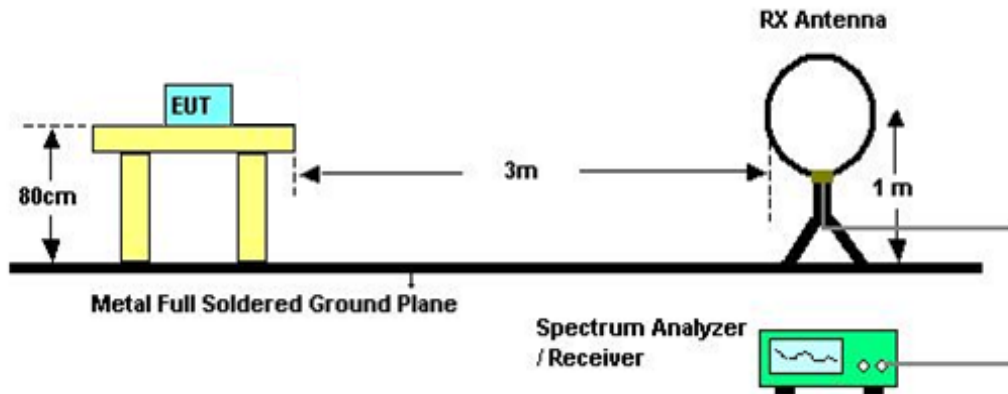
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 22°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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.

4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

Remark:

- (1) 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)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. 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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Appendix 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	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

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

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.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Appendix 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 device is operating, the RF power that is produced 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 or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. 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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Appendix 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)	2400-2483.5	PASS

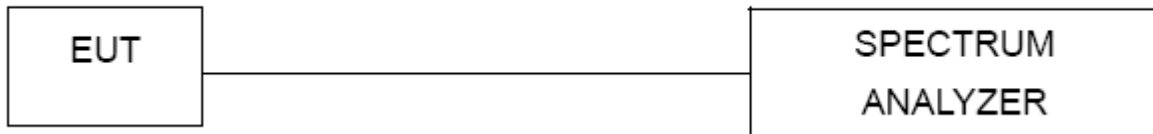
8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. 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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 05, 2018

Radiated Emission Measurement - Above 1GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018
7	Controller	CT	SC100	N/A	N/A
8	Controller	MF	MF-7802	MF780208416	N/A
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Peak Output Power Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018

Antenna Conducted Spurious Emission Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Power Spectral Density Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

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



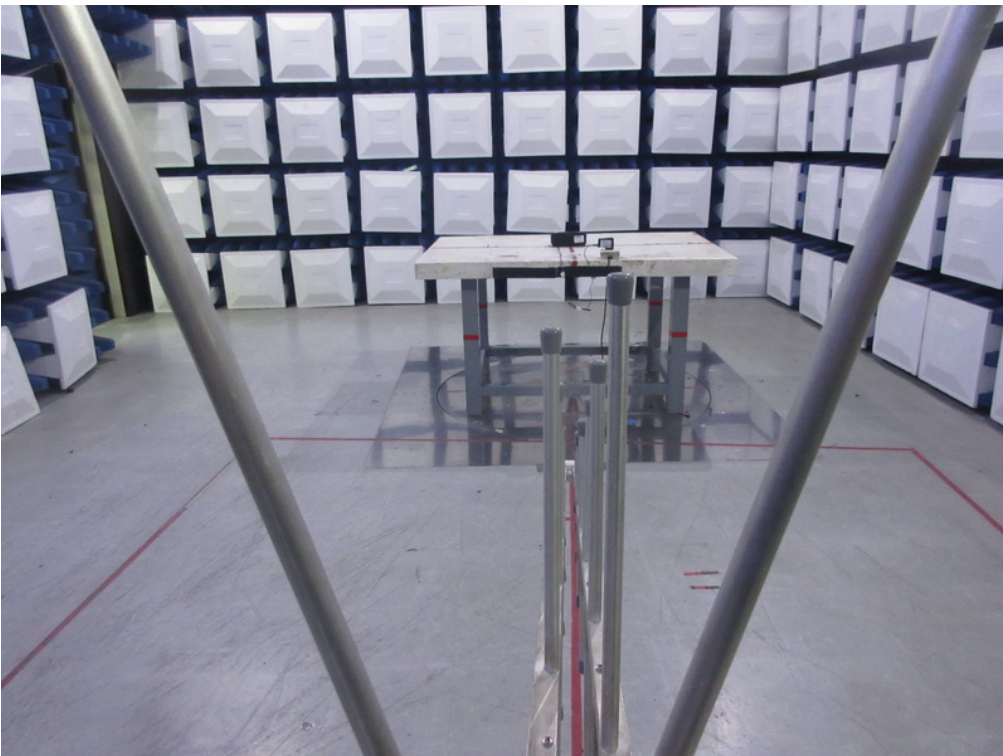
Radiated Measurement Photos

9KHz to 30MHz



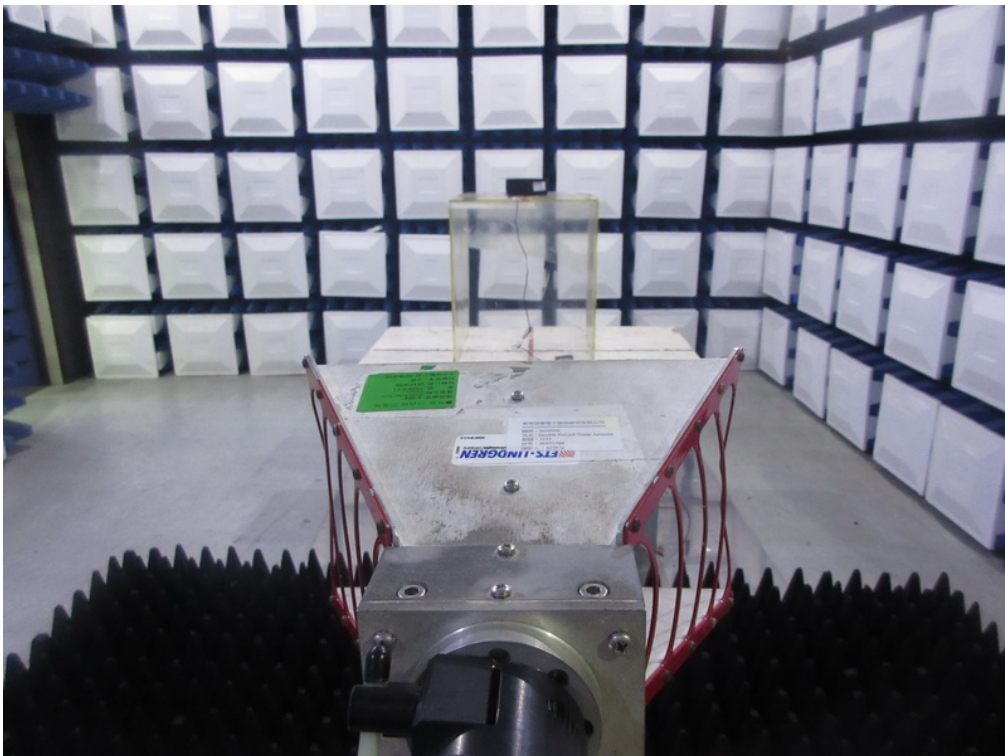
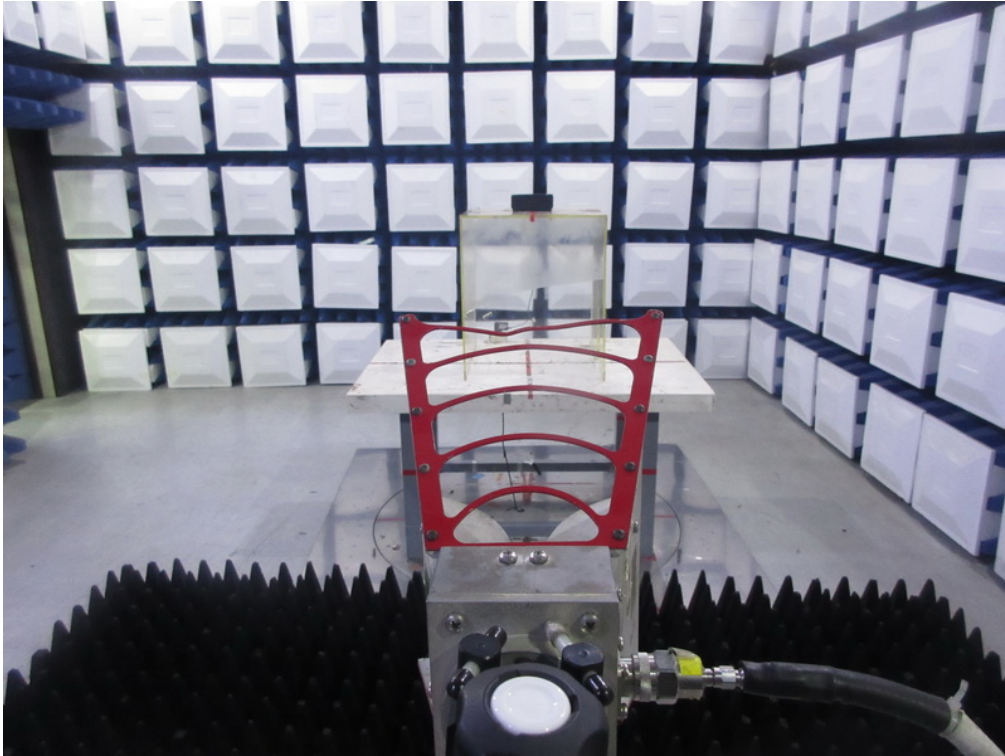
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

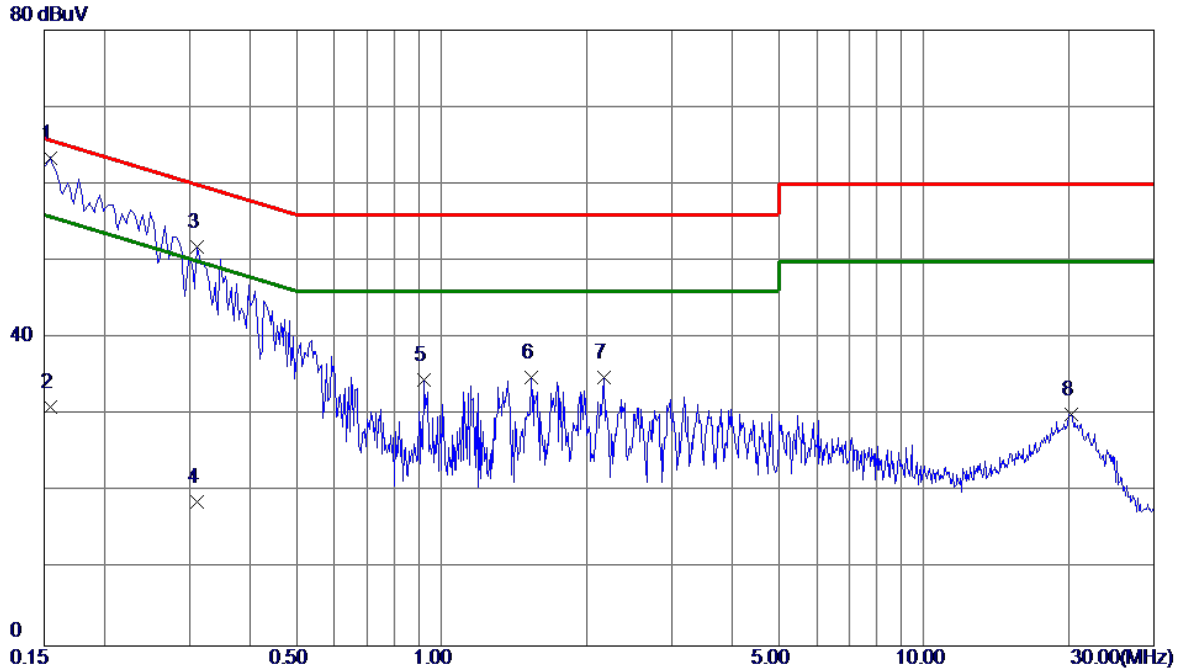
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode(Adapter:GPE018A-050200-Z)

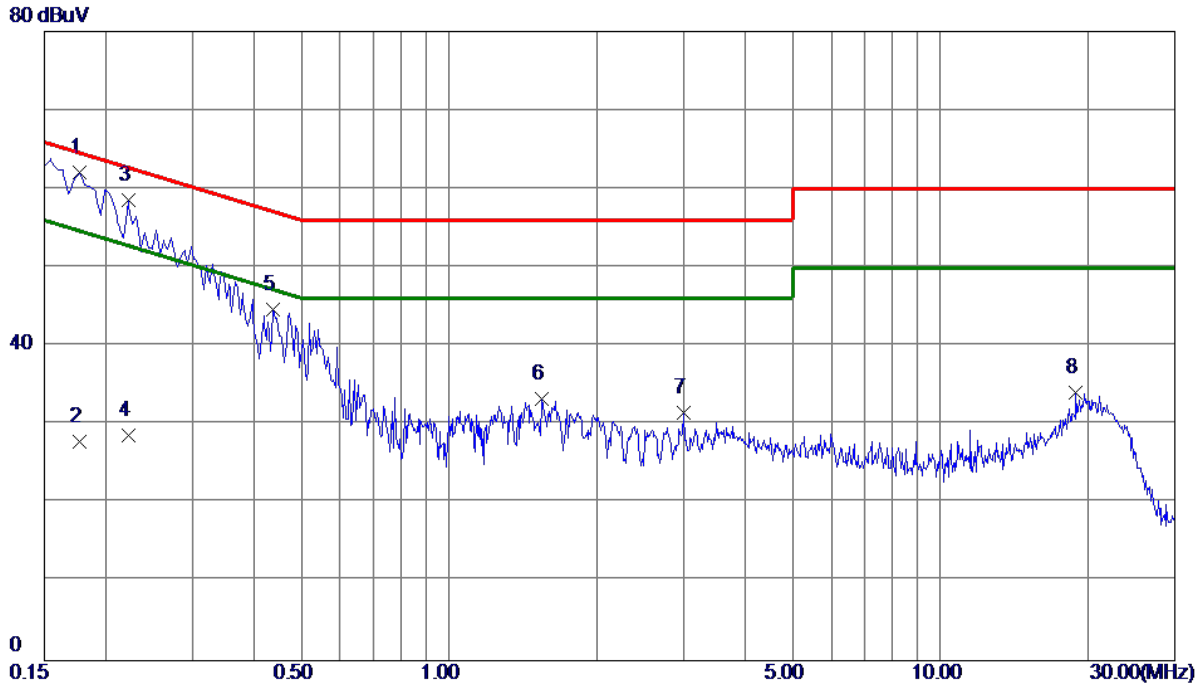
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1548	53.52	9.79	63.31	65.74	-2.43	Peak	
2	0.1548	21.30	9.79	31.09	55.74	-24.65	AVG	
3	0.3120	42.16	9.76	51.92	59.92	-8.00	Peak	
4	0.3120	8.91	9.76	18.67	49.92	-31.25	AVG	
5	0.9195	24.76	9.85	34.61	56.00	-21.39	Peak	
6	1.5315	25.03	9.91	34.94	56.00	-21.06	Peak	
7	2.1705	24.89	9.94	34.83	56.00	-21.17	Peak	
8	20.2470	19.42	10.66	30.08	60.00	-29.92	Peak	

Test Mode: TX Mode(Adapter:GPE018A-050200-Z)

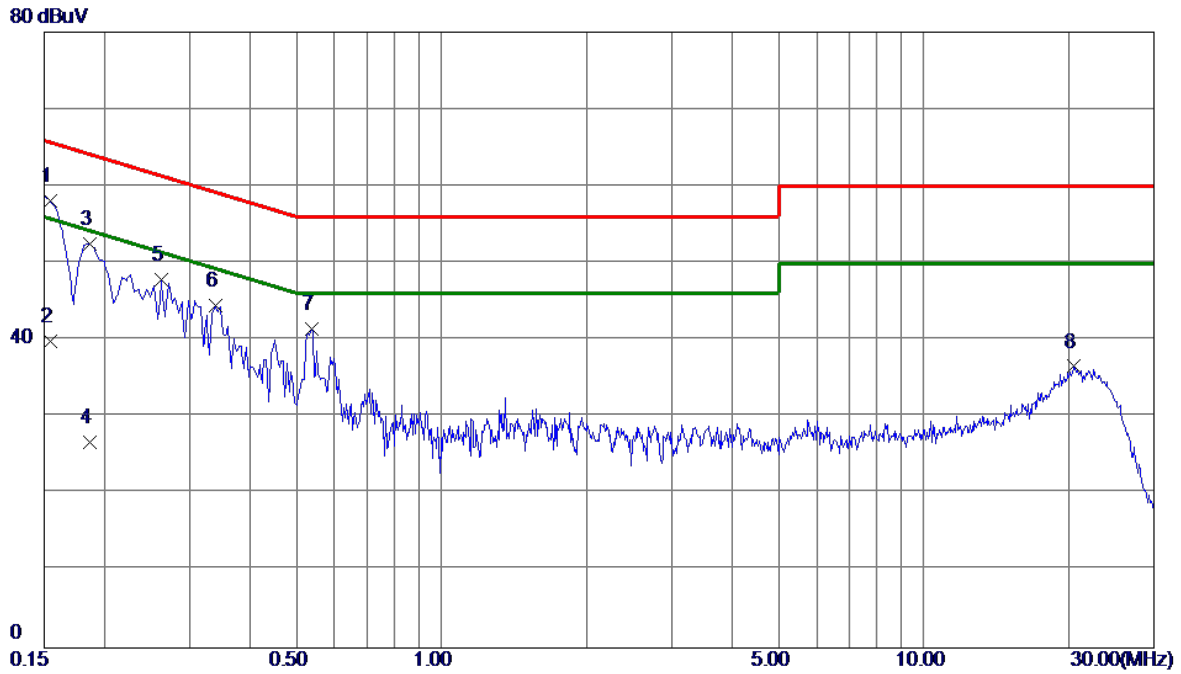
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1770	52.36	9.68	62.04	64.63	-2.59	Peak	
2	0.1770	18.20	9.68	27.88	54.63	-26.75	AVG	
3	0.2220	48.81	9.68	58.49	62.74	-4.25	Peak	
4	0.2220	19.00	9.68	28.68	52.74	-24.06	AVG	
5	0.4380	34.96	9.69	44.65	57.10	-12.45	Peak	
6	1.5450	23.42	9.79	33.21	56.00	-22.79	Peak	
7	2.9985	21.55	9.90	31.45	56.00	-24.55	Peak	
8	18.8295	23.41	10.72	34.13	60.00	-25.87	Peak	

Test Mode: TX Mode (Adapter:S018BAM0500200)

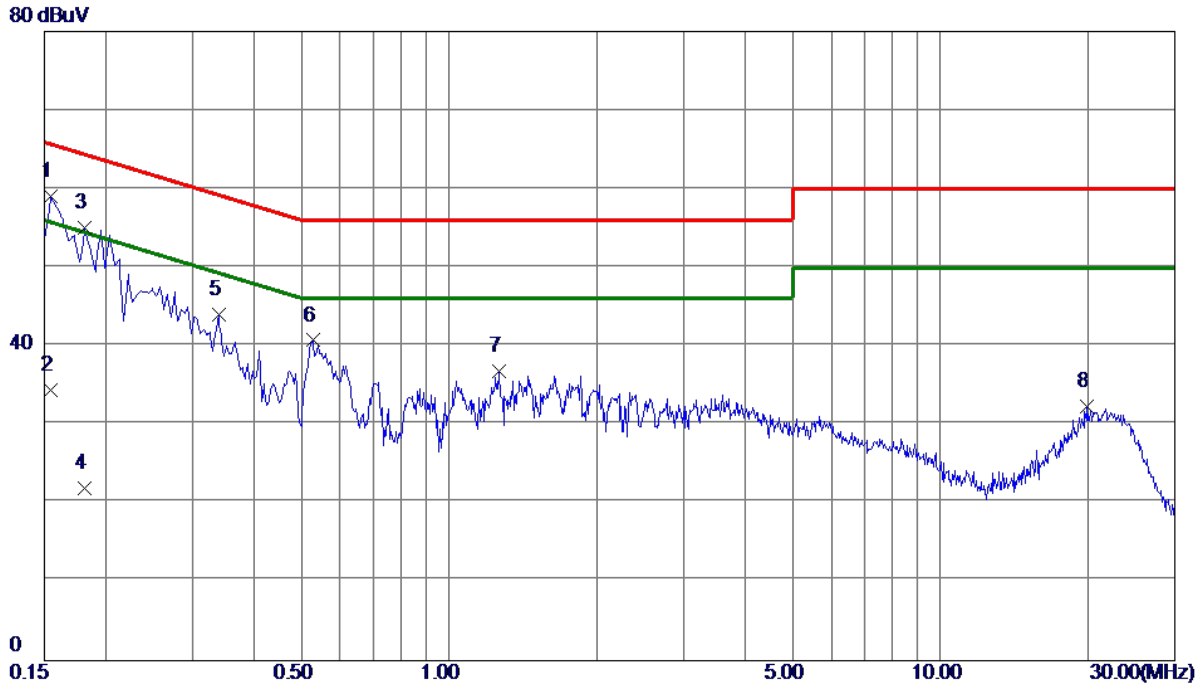
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1548	48.25	9.79	58.04	65.74	-7.70	Peak	
2	0.1548	30.10	9.79	39.89	55.74	-15.85	AVG	
3	0.1860	42.72	9.77	52.49	64.21	-11.72	Peak	
4	0.1860	17.00	9.77	26.77	54.21	-27.44	AVG	
5	0.2625	38.11	9.76	47.87	61.35	-13.48	Peak	
6	0.3390	34.69	9.78	44.47	59.23	-14.76	Peak	
7	0.5370	31.69	9.80	41.49	56.00	-14.51	Peak	
8	20.4090	25.90	10.66	36.56	60.00	-23.44	Peak	

Test Mode: TX Mode (Adapter:S018BAM0500200)

Neutral

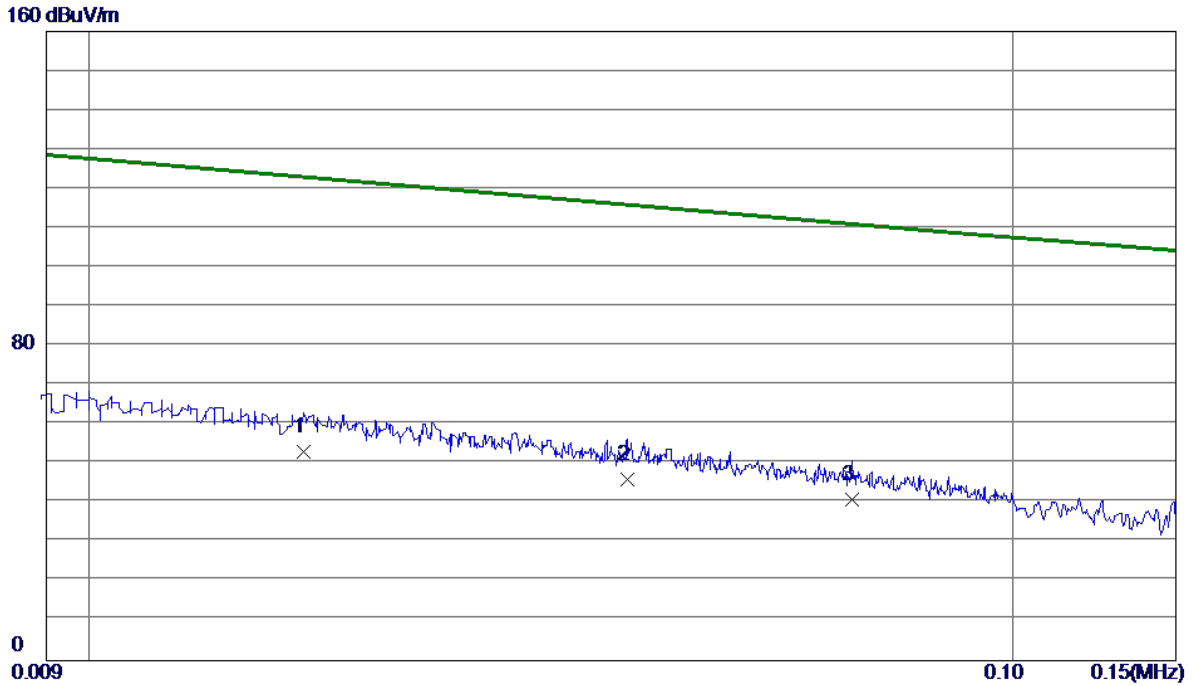


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	49.35	9.68	59.03	65.75	-6.72	Peak	
2	0.1545	24.70	9.68	34.38	55.75	-21.37	AVG	
3	0.1815	45.29	9.68	54.97	64.42	-9.45	Peak	
4	0.1815	12.30	9.68	21.98	54.42	-32.44	AVG	
5	0.3390	34.33	9.69	44.02	59.23	-15.21	Peak	
6	0.5280	31.02	9.70	40.72	56.00	-15.28	Peak	
7	1.2660	27.02	9.76	36.78	56.00	-19.22	Peak	
8	19.8645	21.58	10.75	32.33	60.00	-27.67	Peak	

APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX Mode(Adapter:GPE018A-050200-Z)

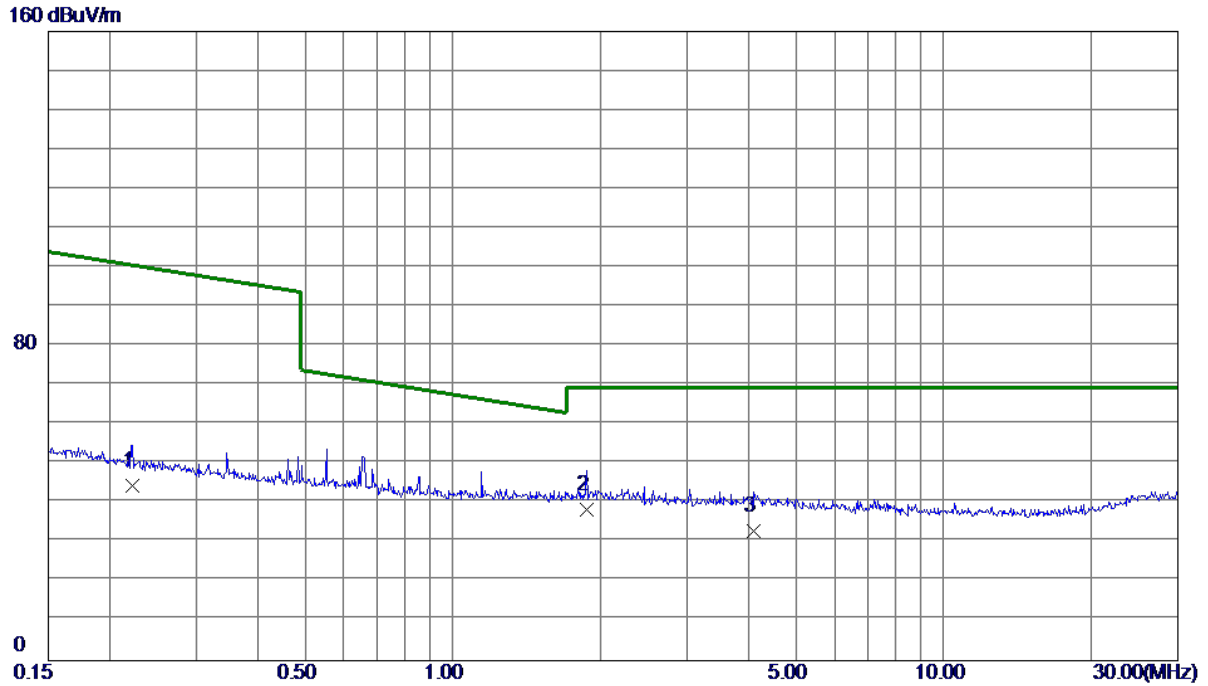
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0171	33.06	20.00	53.06	126.50	-73.44	AVG	
2	0.0383	27.15	19.07	46.22	121.26	-75.04	AVG	
3 *	0.0670	22.52	18.38	40.90	114.17	-73.27	AVG	

Test Mode: TX Mode(Adapter:GPE018A-050200-Z)

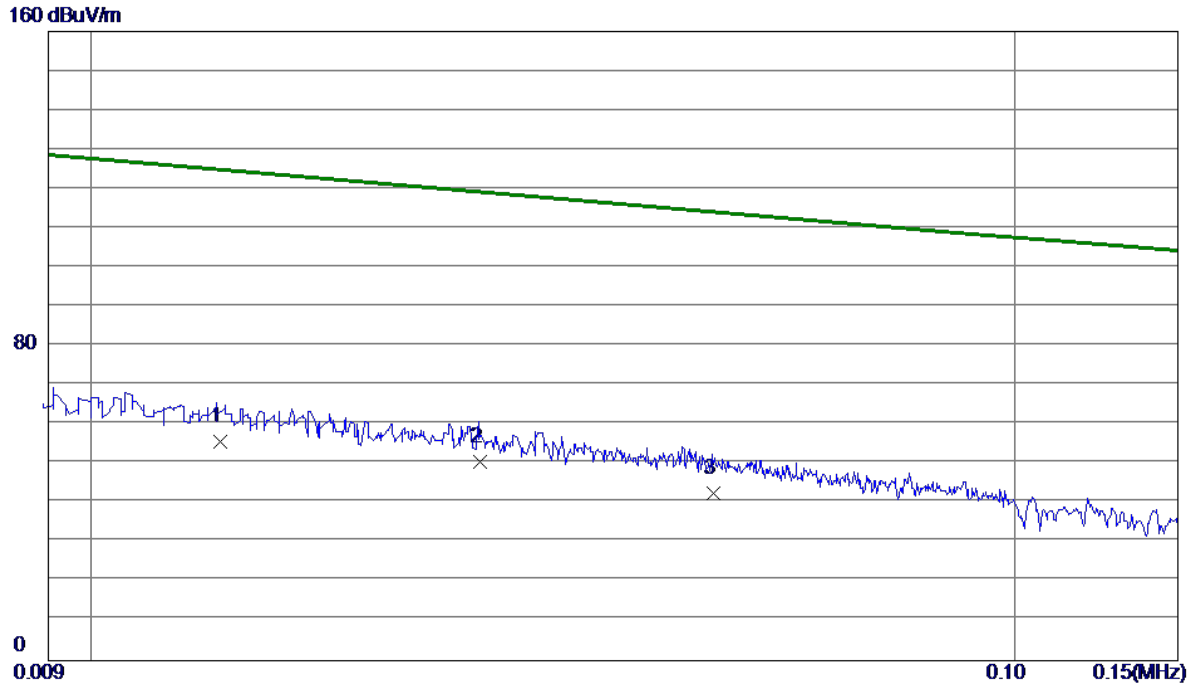
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2220	27.83	16.74	44.57	102.95	-58.38	AVG	
2 *	1.8780	22.77	15.56	38.33	69.54	-31.21	QP	
3	4.1137	18.01	14.88	32.89	69.54	-36.65	QP	

Test Mode: TX Mode(Adapter:GPE018A-050200-Z)

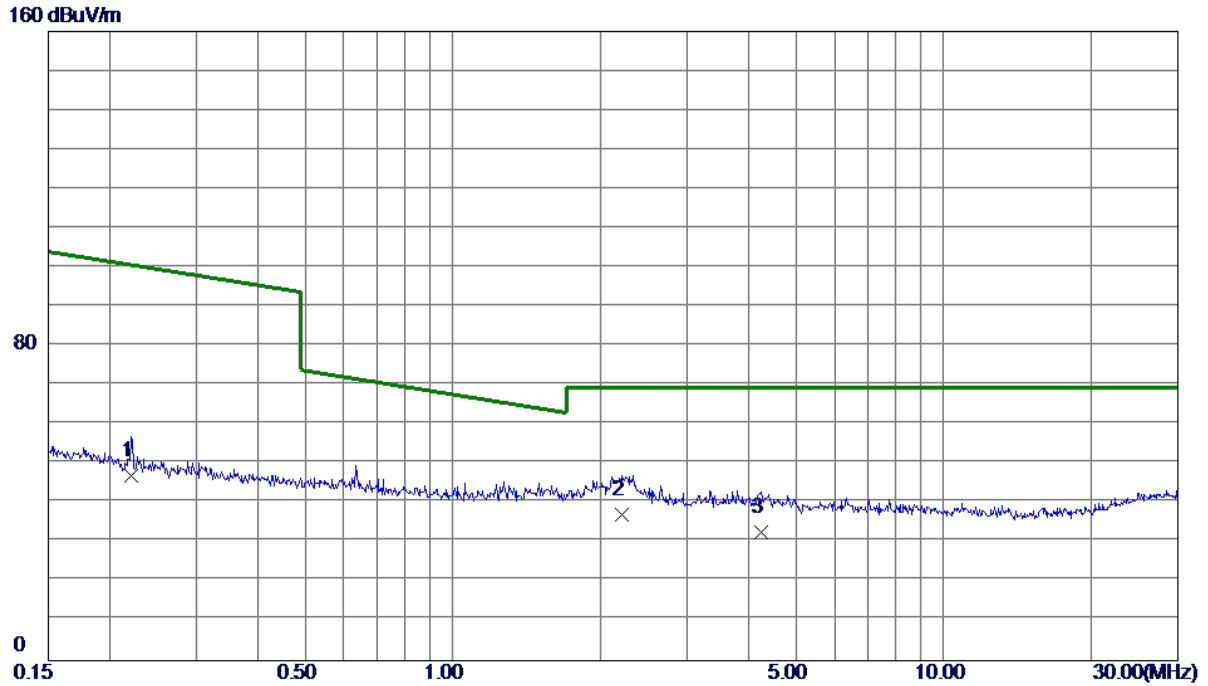
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0138	35.19	20.43	55.62	127.31	-71.69	AVG	
2	0.0264	31.22	19.43	50.65	124.20	-73.55	AVG	
3	0.0472	23.65	18.81	42.46	119.06	-76.60	AVG	

Test Mode: TX Mode(Adapter:GPE018A-050200-Z)

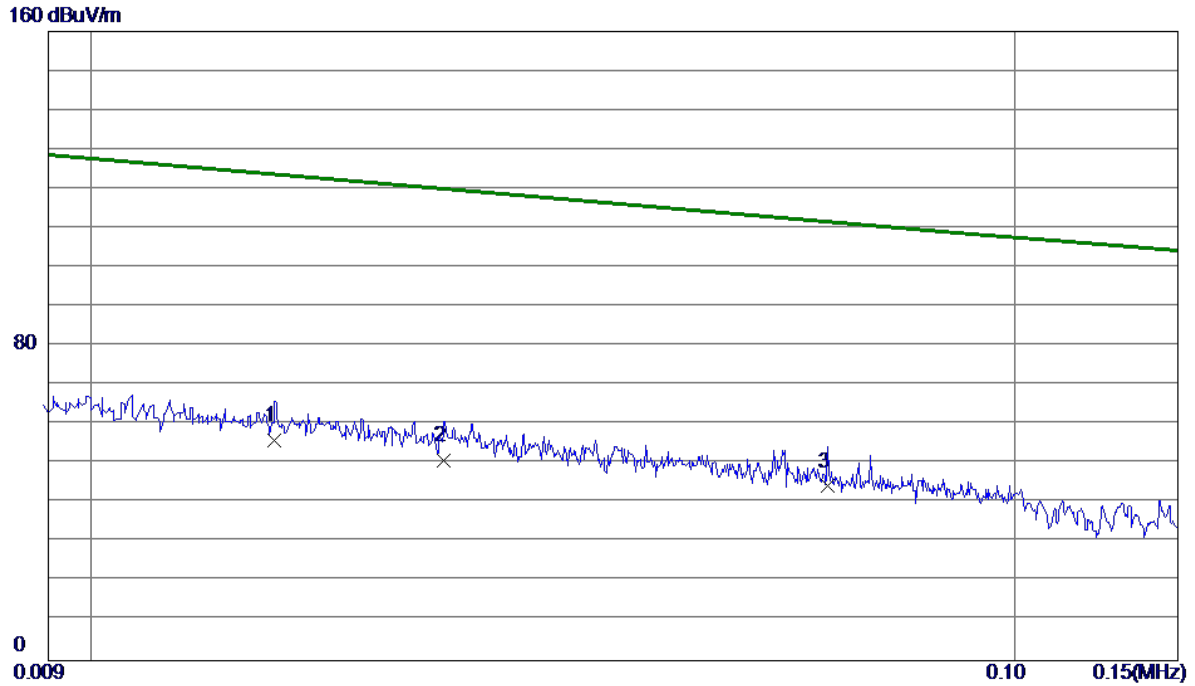
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2208	30.31	16.74	47.05	102.99	-55.94	AVG	
2 *	2.2132	21.63	15.45	37.08	69.54	-32.46	QP	
3	4.2466	17.93	14.81	32.74	69.54	-36.80	QP	

Test Mode: TX Mode (Adapter:S018BAM0500200)

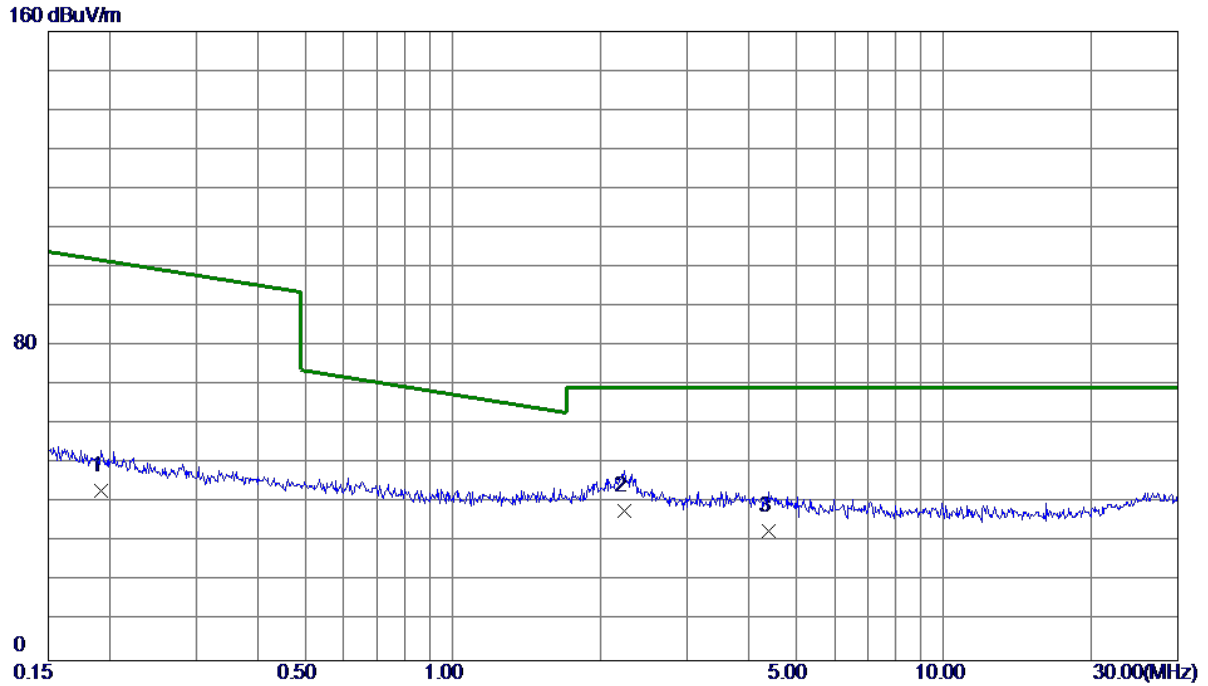
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0158	35.69	20.17	55.86	126.82	-70.96	AVG	
2	0.0241	31.38	19.50	50.88	124.77	-73.89	AVG	
3 *	0.0627	25.85	18.47	44.32	115.24	-70.92	AVG	

Test Mode: TX Mode (Adapter:S018BAM0500200)

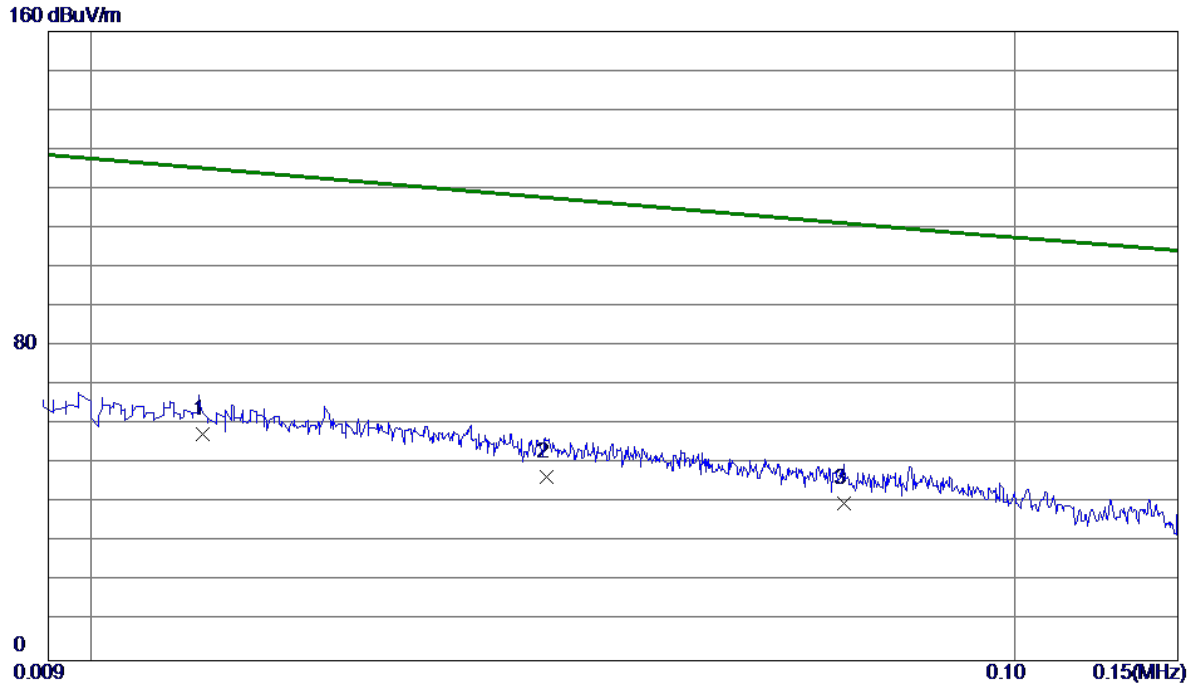
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.1924	26.47	16.82	43.29	103.96	-60.67	AVG	
2 *	2.2367	22.75	15.44	38.19	69.54	-31.35	QP	
3	4.4071	18.32	14.71	33.03	69.54	-36.51	QP	

Test Mode: TX Mode (Adapter:S018BAM0500200)

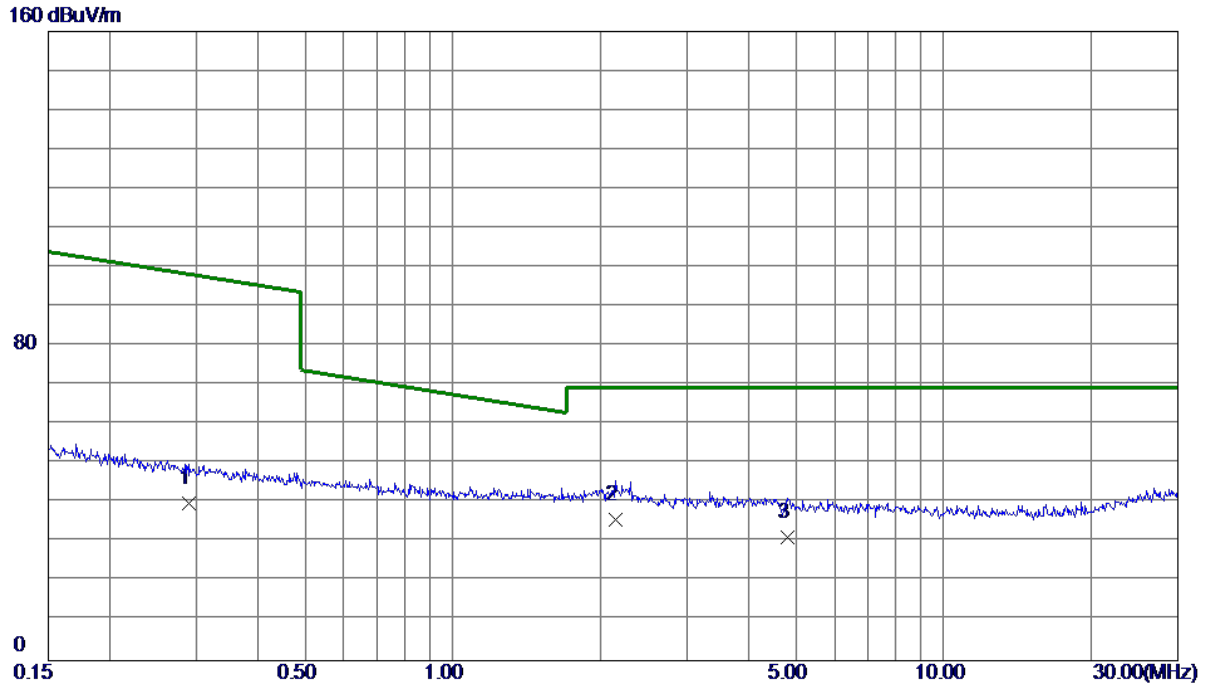
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.0132	37.14	20.50	57.64	127.46	-69.82	AVG	
2	0.0311	27.50	19.29	46.79	123.04	-76.25	AVG	
3	0.0653	21.48	18.42	39.90	114.59	-74.69	AVG	

Test Mode: TX Mode (Adapter:S018BAM0500200)

Ant 90°

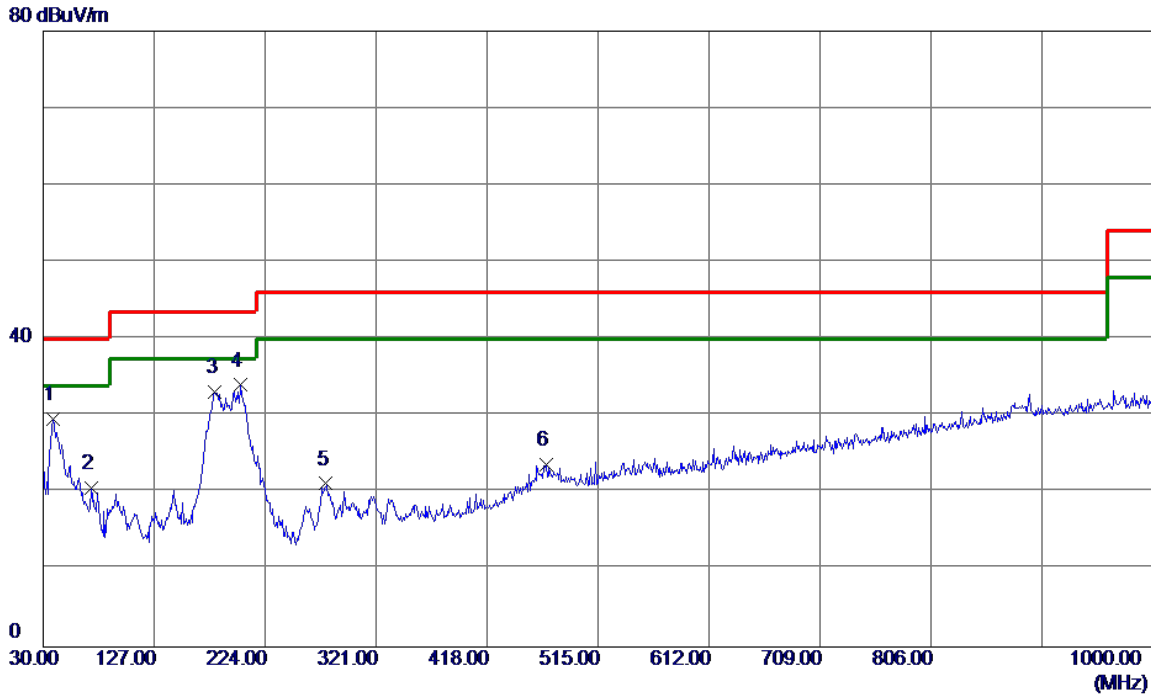


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2893	23.33	16.63	39.96	100.65	-60.69	AVG	
2 *	2.1440	20.28	15.47	35.75	69.54	-33.79	QP	
3	4.7970	16.92	14.49	31.41	69.54	-38.13	QP	

APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX 2402MHz _CH00_1Mbps(Adapter:GPE018A-050200-Z)

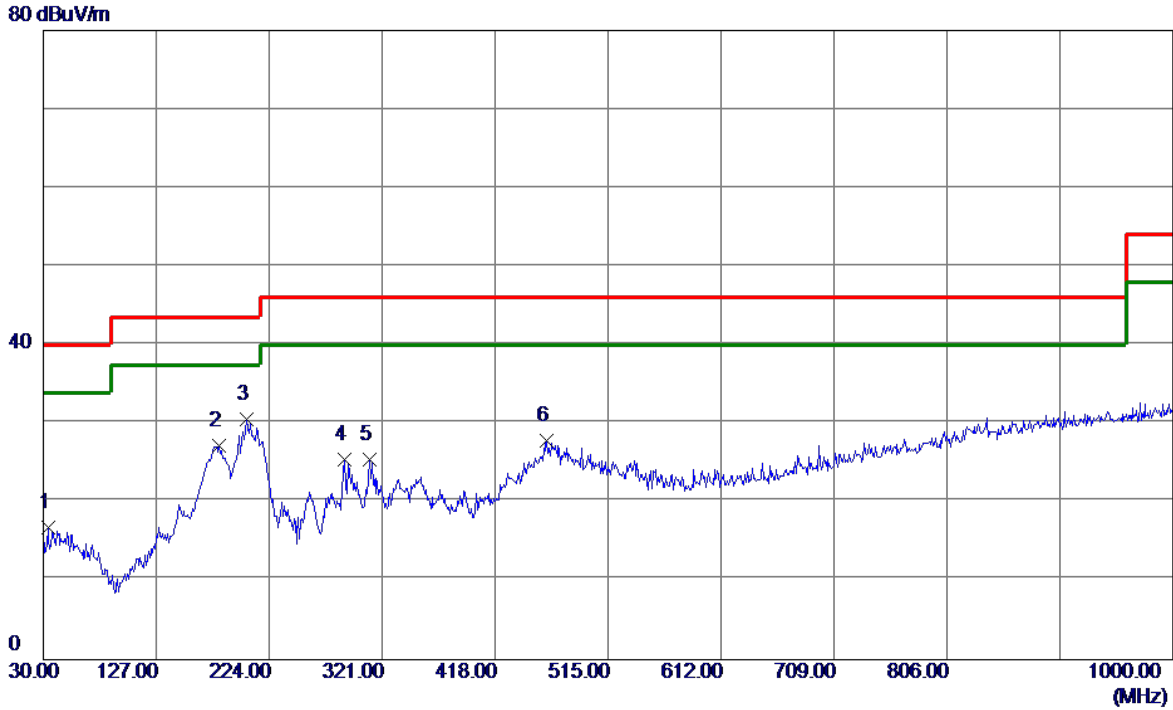
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	38.7300	43.72	-14.16	29.56	40.00	-10.44	Peak	
2	71.7100	37.41	-16.71	20.70	40.00	-19.30	Peak	
3	180.3500	45.25	-12.07	33.18	43.50	-10.32	Peak	
4 *	202.6600	47.81	-13.81	34.00	43.50	-9.50	Peak	
5	277.3500	36.26	-15.06	21.20	46.00	-24.80	Peak	
6	469.4100	33.19	-9.47	23.72	46.00	-22.28	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps(Adapter:GPE018A-050200-Z)

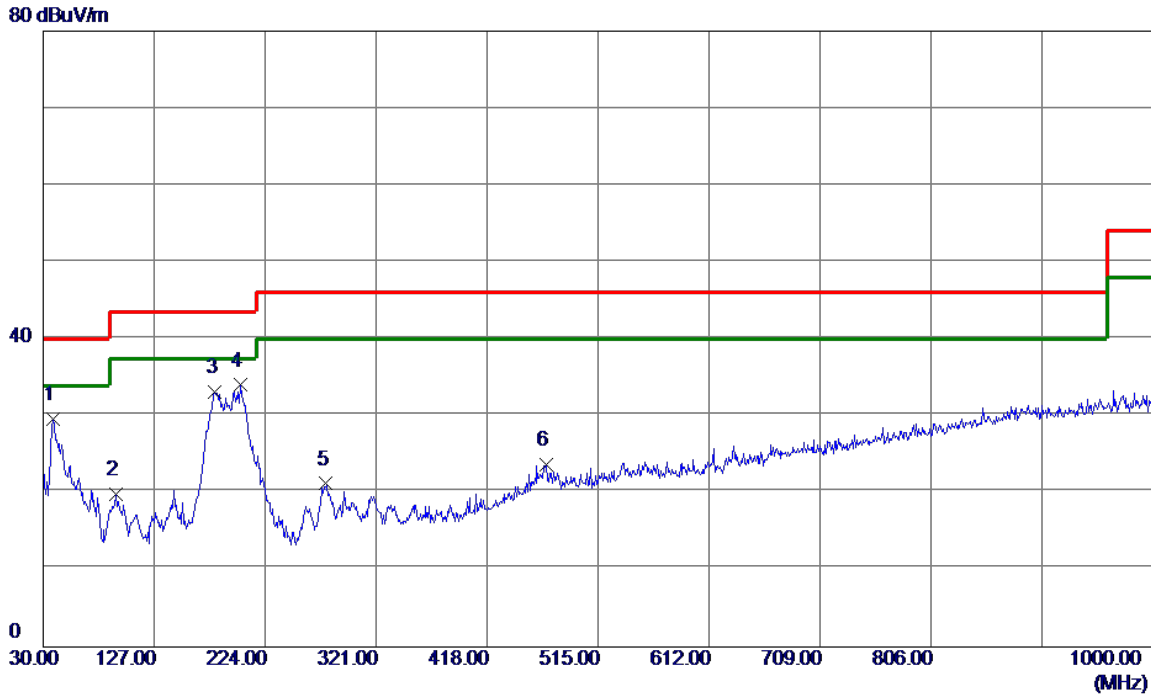
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.8800	31.48	-14.73	16.75	40.00	-23.25	Peak	
2	181.3200	39.35	-12.15	27.20	43.50	-16.30	Peak	
3 *	204.6000	44.40	-13.85	30.55	43.50	-12.95	Peak	
4	288.9900	39.63	-14.26	25.37	46.00	-20.63	Peak	
5	310.3299	38.11	-12.65	25.46	46.00	-20.54	Peak	
6	462.6200	37.45	-9.63	27.82	46.00	-18.18	Peak	

Test Mode: TX 2440MHz _CH19_1Mbps(Adapter:GPE018A-050200-Z)

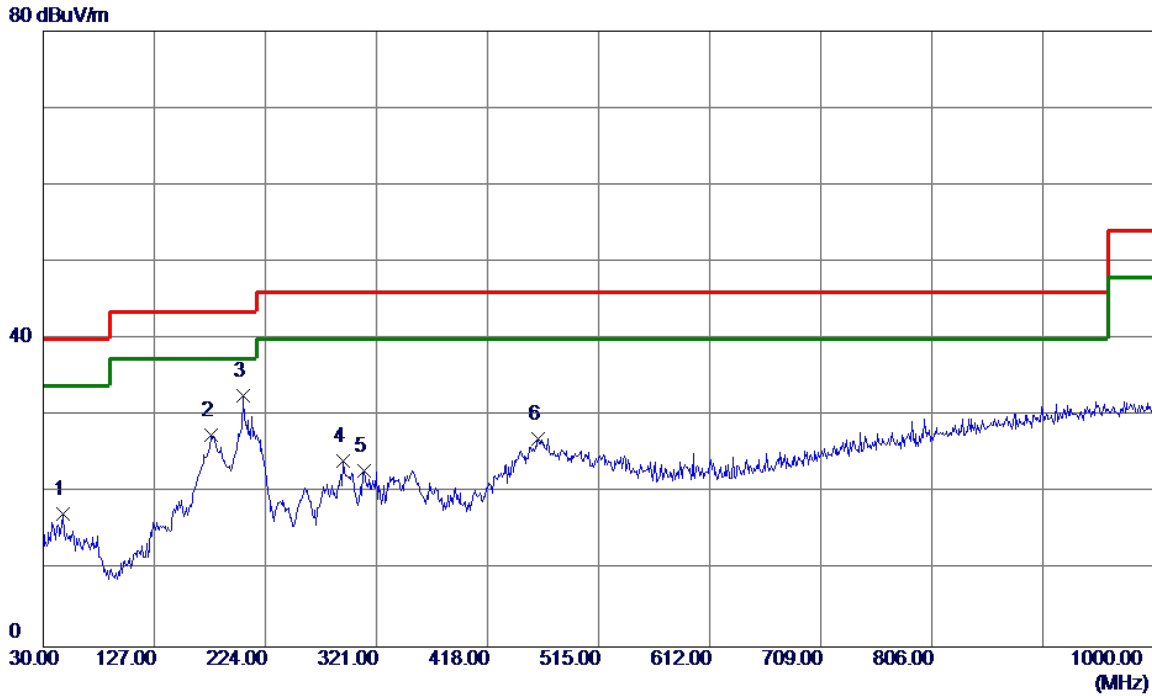
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	38.7300	43.72	-14.16	29.56	40.00	-10.44	Peak	
2	94.0199	38.69	-18.79	19.90	43.50	-23.60	Peak	
3	180.3500	45.25	-12.07	33.18	43.50	-10.32	Peak	
4 *	202.6600	47.81	-13.81	34.00	43.50	-9.50	Peak	
5	277.3500	36.26	-15.06	21.20	46.00	-24.80	Peak	
6	469.4100	33.19	-9.47	23.72	46.00	-22.28	Peak	

Test Mode: TX 2440MHz _CH19_1Mbps(Adapter:GPE018A-050200-Z)

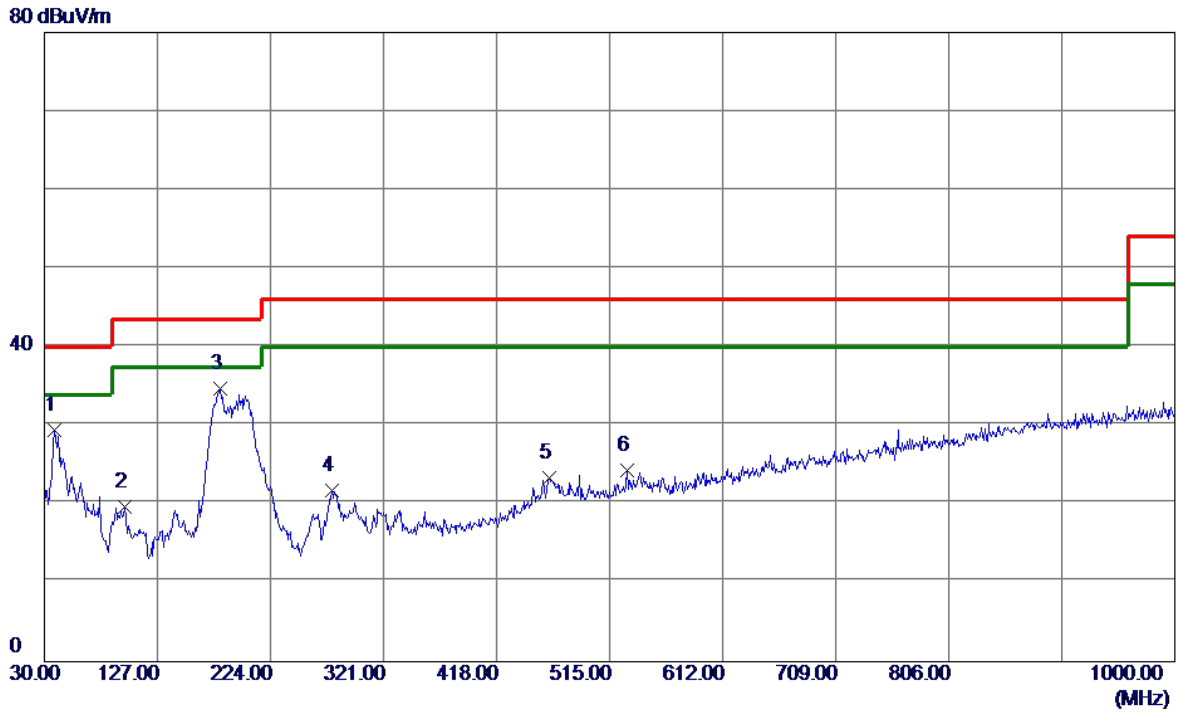
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	47.4600	30.47	-13.12	17.35	40.00	-22.65	Peak	
2	176.4700	39.62	-12.14	27.48	43.50	-16.02	Peak	
3 *	204.6000	46.48	-13.85	32.63	43.50	-10.87	Peak	
4	291.9000	38.07	-13.94	24.13	46.00	-21.87	Peak	
5	310.3299	35.59	-12.65	22.94	46.00	-23.06	Peak	
6	462.6200	36.62	-9.63	26.99	46.00	-19.01	Peak	

Test Mode: TX 2480MHz _CH39_1Mbps (Adapter:GPE018A-050200-Z)

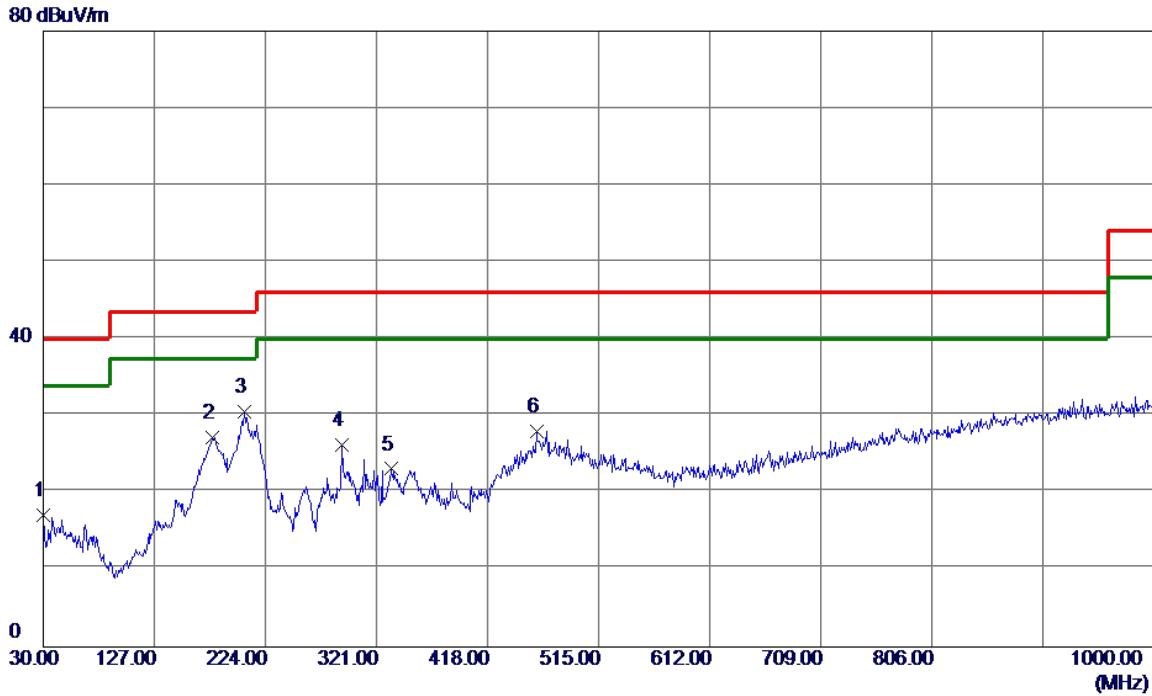
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	38.7300	43.65	-14.16	29.49	40.00	-10.51	Peak	
2	98.8700	37.49	-17.78	19.71	43.50	-23.79	Peak	
3 *	181.3200	46.93	-12.15	34.78	43.50	-8.72	Peak	
4	276.3800	36.96	-15.16	21.80	46.00	-24.20	Peak	
5	463.5900	33.02	-9.61	23.41	46.00	-22.59	Peak	
6	530.5200	32.44	-8.11	24.33	46.00	-21.67	Peak	

Test Mode: TX 2480MHz _CH39_1Mbps (Adapter:GPE018A-050200-Z)

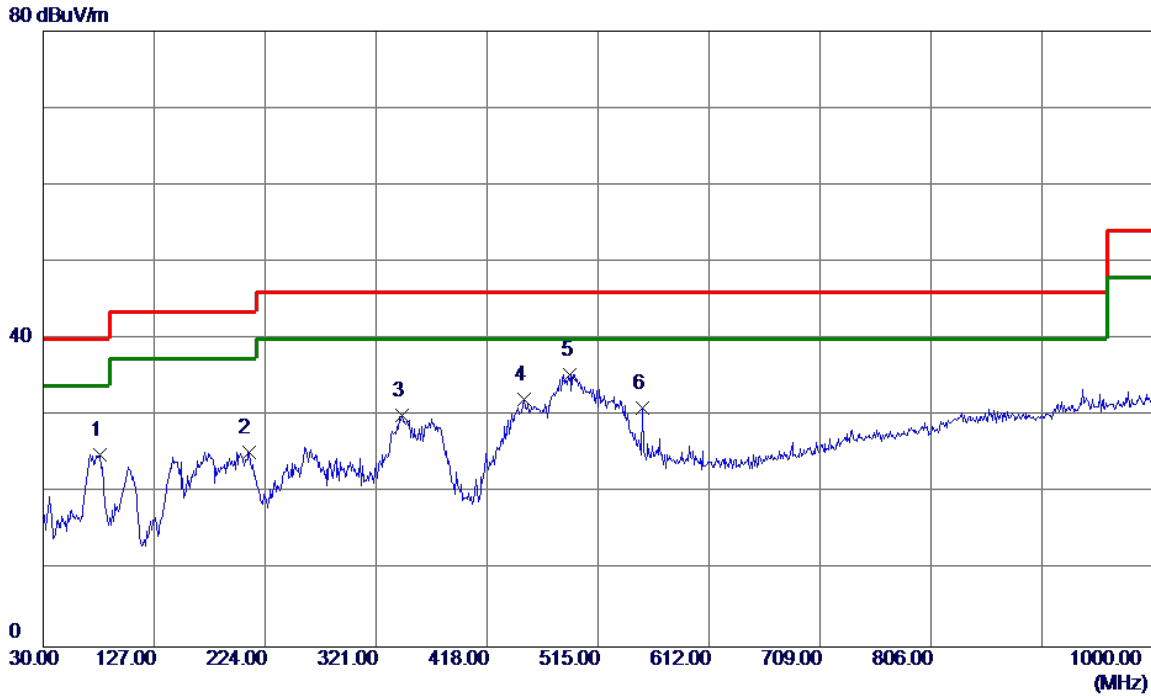
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30.0000	32.41	-15.25	17.16	40.00	-22.84	Peak	
2	177.4400	39.31	-12.12	27.19	43.50	-16.31	Peak	
3 *	205.5700	44.41	-13.88	30.53	43.50	-12.97	Peak	
4	290.9300	40.27	-14.07	26.20	46.00	-19.80	Peak	
5	333.6099	35.36	-12.24	23.12	46.00	-22.88	Peak	
6	460.6800	37.75	-9.68	28.07	46.00	-17.93	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps (Adapter:S018BAM0500200)

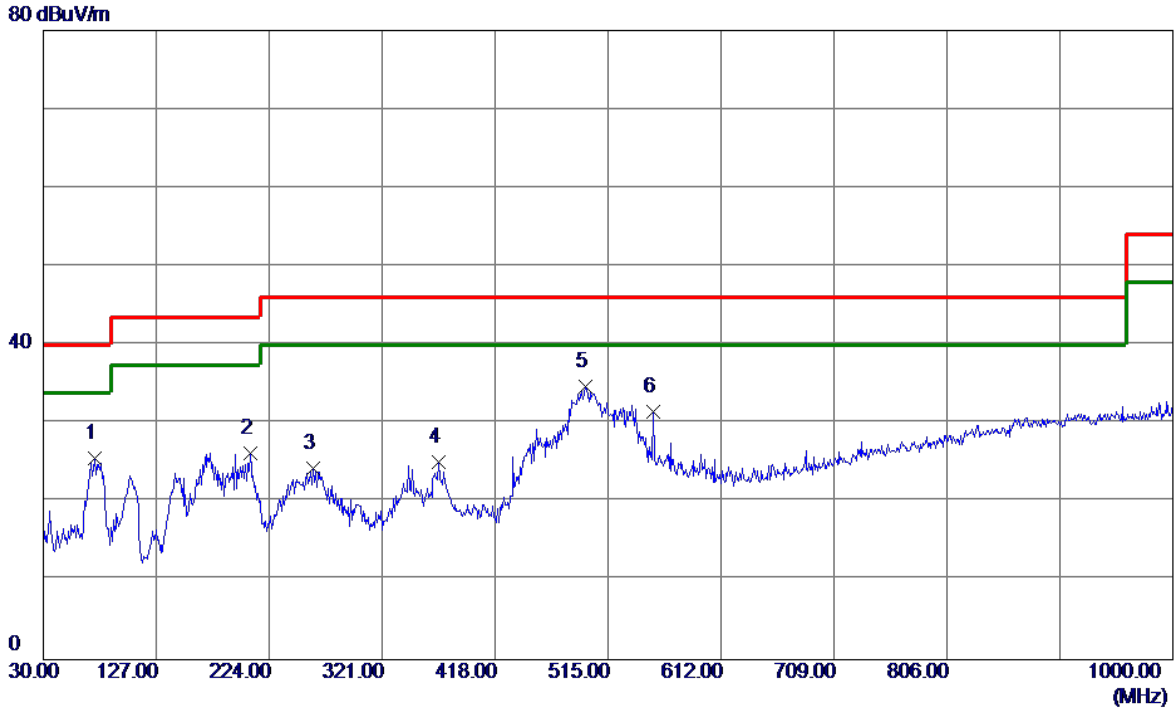
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	79.4700	43.07	-18.12	24.95	40.00	-15.05	Peak	
2	209.4500	39.23	-13.96	25.27	43.50	-18.23	Peak	
3	343.3100	42.17	-12.07	30.10	46.00	-15.90	Peak	
4	450.0100	42.15	-9.94	32.21	46.00	-13.79	Peak	
5 *	490.7500	44.35	-8.95	35.40	46.00	-10.60	Peak	
6	553.8000	38.59	-7.62	30.97	46.00	-15.03	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps (Adapter:S018BAM0500200)

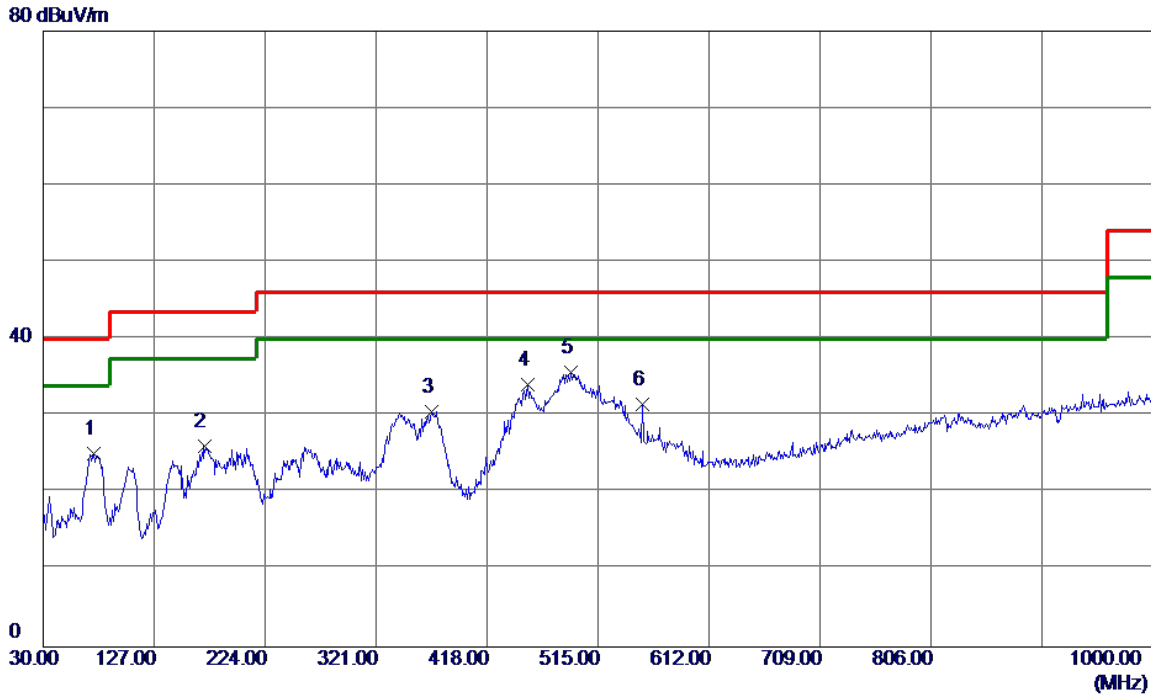
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	74.6200	42.66	-17.04	25.62	40.00	-14.38	Peak	
2	207.5100	40.16	-13.92	26.24	43.50	-17.26	Peak	
3	261.8299	40.12	-15.74	24.38	46.00	-21.62	Peak	
4	369.5000	36.81	-11.72	25.09	46.00	-20.91	Peak	
5 *	495.6000	43.52	-8.83	34.69	46.00	-11.31	Peak	
6	553.8000	39.09	-7.62	31.47	46.00	-14.53	Peak	

Test Mode: TX 2440MHz_CH19_1Mbps (Adapter:S018BAM0500200)

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	74.6200	42.16	-17.04	25.12	40.00	-14.88	Peak	
2	170.6500	38.35	-12.32	26.03	43.50	-17.47	Peak	
3	369.5000	42.27	-11.72	30.55	46.00	-15.45	Peak	
4	453.8900	43.89	-9.85	34.04	46.00	-11.96	Peak	
5 *	491.7200	44.58	-8.92	35.66	46.00	-10.34	Peak	
6	553.8000	39.09	-7.62	31.47	46.00	-14.53	Peak	

Test Mode: TX 2440MHz_CH19_1Mbps (Adapter:S018BAM0500200)

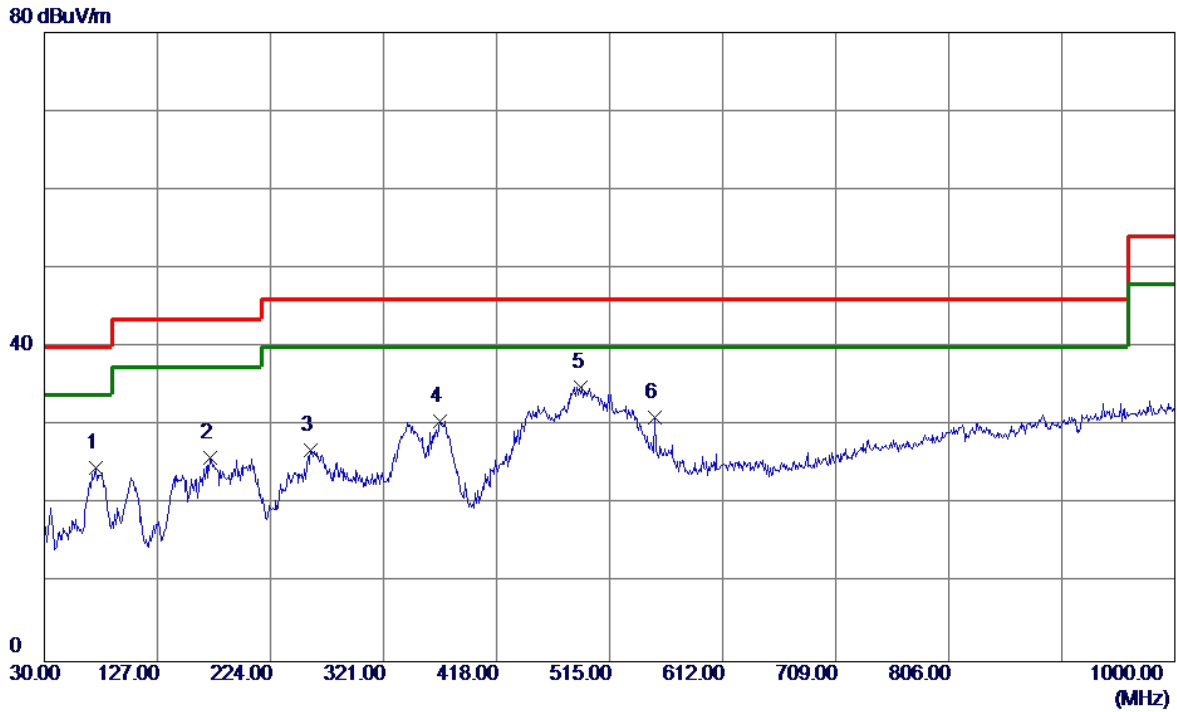
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	73.6500	41.67	-16.93	24.74	40.00	-15.26	Peak	
2	104.6900	40.15	-16.87	23.28	43.50	-20.22	Peak	
3	170.6500	37.85	-12.32	25.53	43.50	-17.97	Peak	
4	369.5000	35.81	-11.72	24.09	46.00	-21.91	Peak	
5	450.9800	39.96	-9.92	30.04	46.00	-15.96	Peak	
6 *	495.6000	43.52	-8.83	34.69	46.00	-11.31	Peak	

Test Mode: TX 2480MHz_CH39_1Mbps (Adapter:S018BAM0500200)

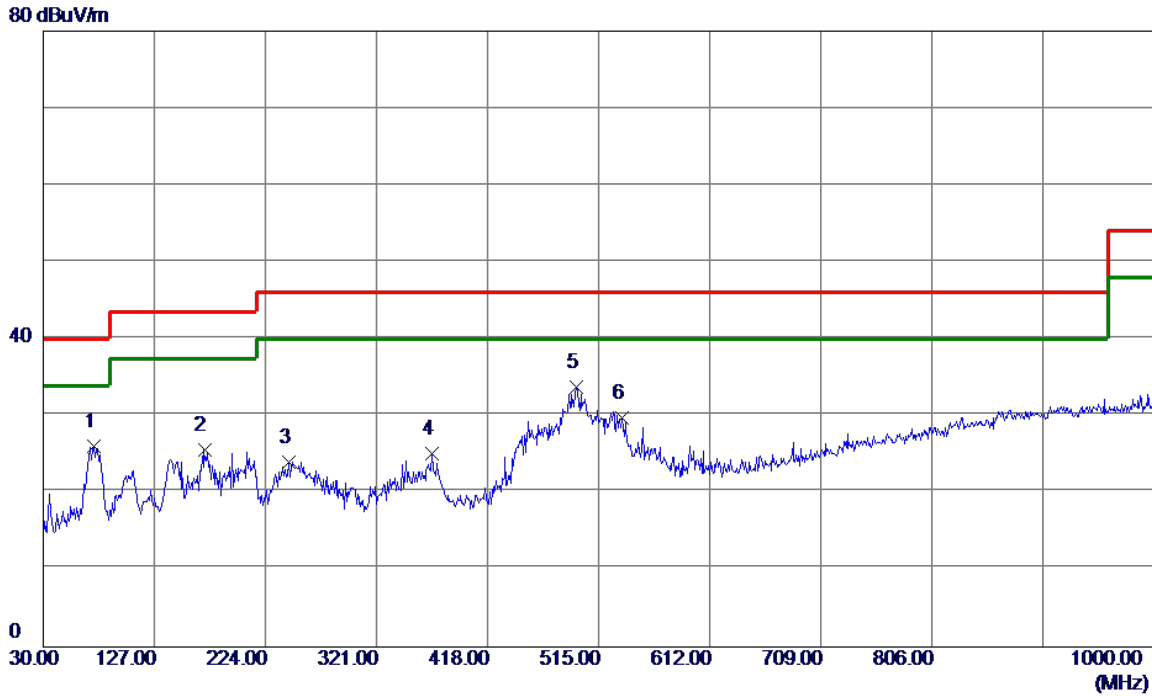
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	74.6200	41.66	-17.04	24.62	40.00	-15.38	Peak	
2	172.5900	38.19	-12.26	25.93	43.50	-17.57	Peak	
3	258.9200	42.49	-15.62	26.87	46.00	-19.13	Peak	
4	369.5000	42.27	-11.72	30.55	46.00	-15.45	Peak	
5 *	490.7500	43.85	-8.95	34.90	46.00	-11.10	Peak	
6	553.8000	38.59	-7.62	30.97	46.00	-15.03	Peak	

Test Mode: TX 2480MHz_CH39_1Mbps (Adapter:S018BAM0500200)

Horizontal

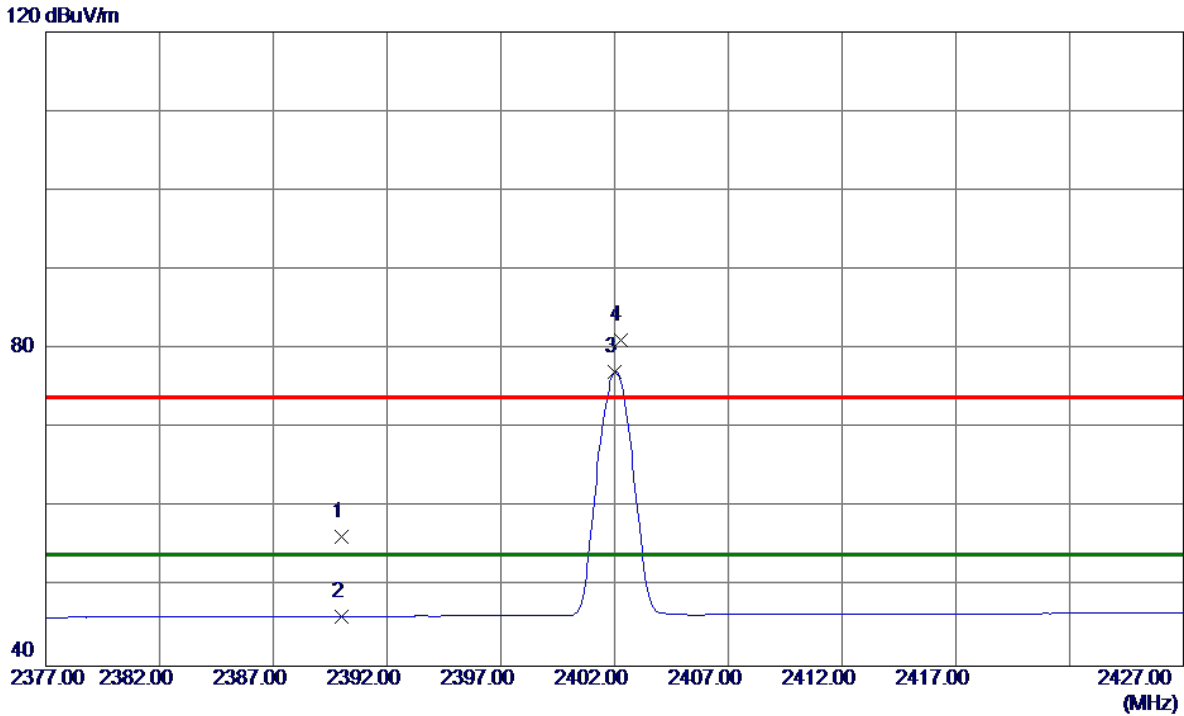


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	74.6200	43.16	-17.04	26.12	40.00	-13.88	Peak	
2	170.6500	37.85	-12.32	25.53	43.50	-17.97	Peak	
3	244.3700	38.54	-14.59	23.95	46.00	-22.05	Peak	
4	369.5000	36.81	-11.72	25.09	46.00	-20.91	Peak	
5 *	495.6000	42.52	-8.83	33.69	46.00	-12.31	Peak	
6	535.3700	37.79	-8.01	29.78	46.00	-16.22	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

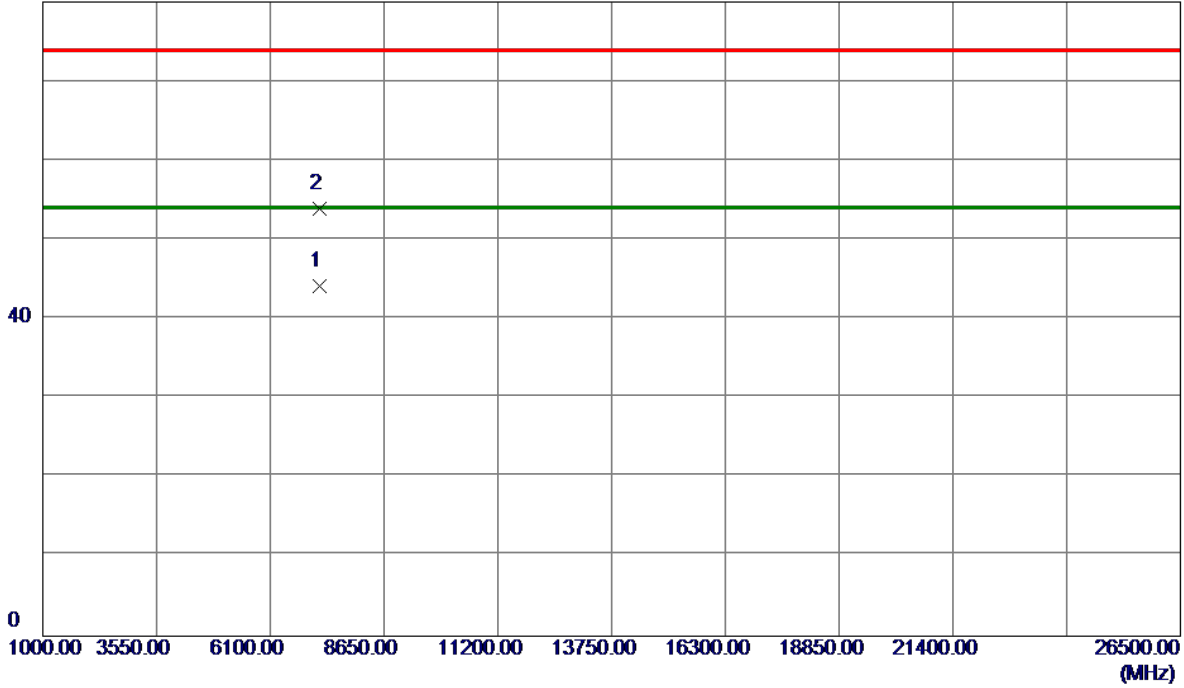


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.23	33.06	56.29	74.00	-17.71	Peak	
2	2390.0000	13.22	33.06	46.28	54.00	-7.72	AVG	
3 *	2402.0000	44.06	33.10	77.16	54.00	23.16	AVG	No Limit
4	2402.2500	47.96	33.10	81.06	74.00	7.06	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

80 dBuV/m

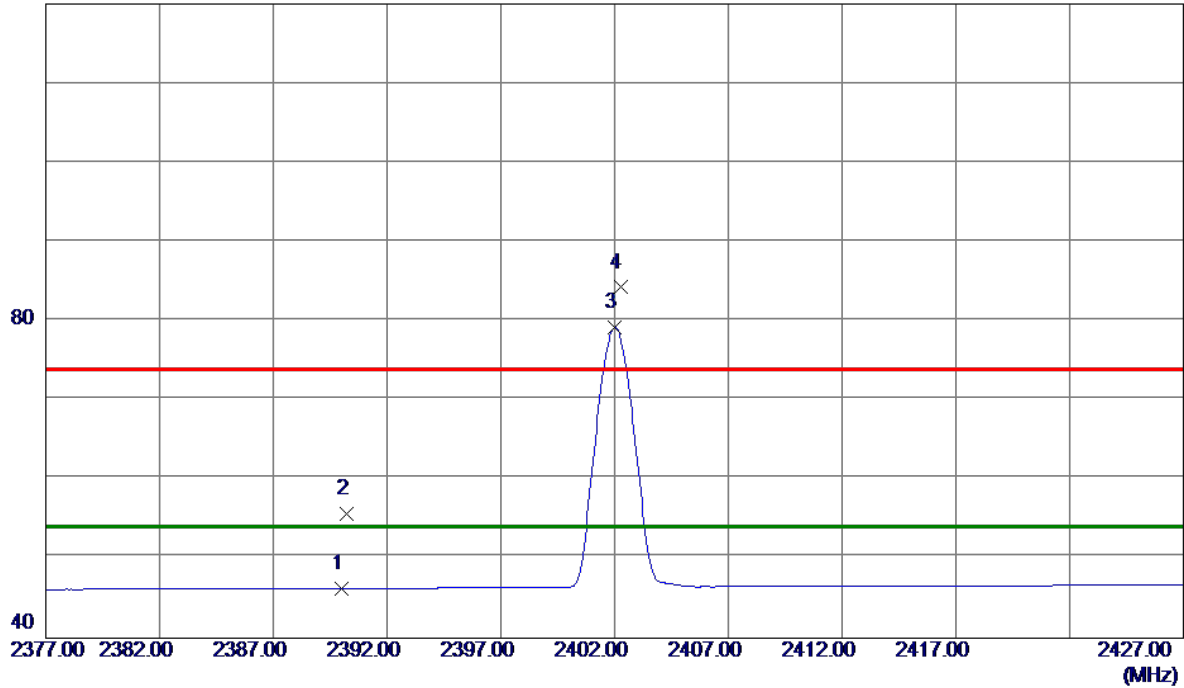


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7206.0100	31.04	13.13	44.17	54.00	-9.83	AVG	
2	7206.5760	40.86	13.13	53.99	74.00	-20.01	Peak	

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

120 dBuV/m

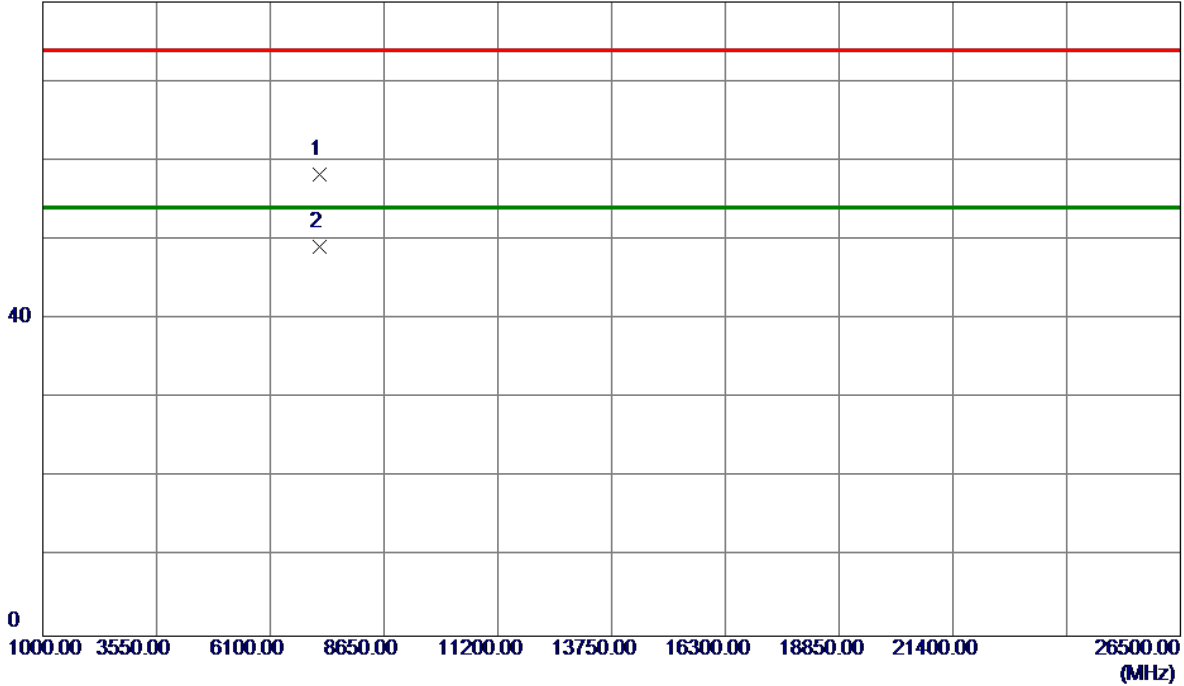


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	13.22	33.06	46.28	54.00	-7.72	AVG	
2	2390.2000	22.55	33.06	55.61	74.00	-18.39	Peak	
3 *	2402.0000	46.07	33.10	79.17	54.00	25.17	AVG	No Limit
4	2402.2500	51.14	33.10	84.24	74.00	10.24	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

80 dBuV/m

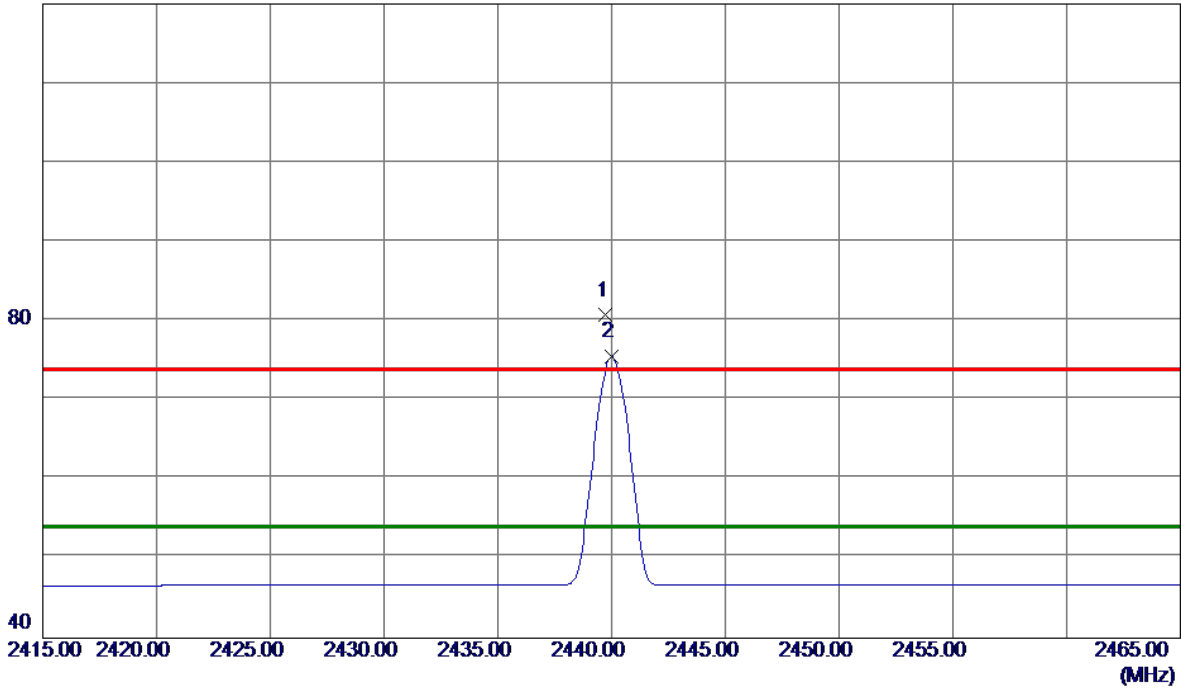


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7205.9920	45.16	13.13	58.29	74.00	-15.71	Peak	
2 *	7205.9920	36.05	13.13	49.18	54.00	-4.82	AVG	

Test Mode : TX 2440MHz _CH19_1Mbps

Vertical

120 dBuV/m

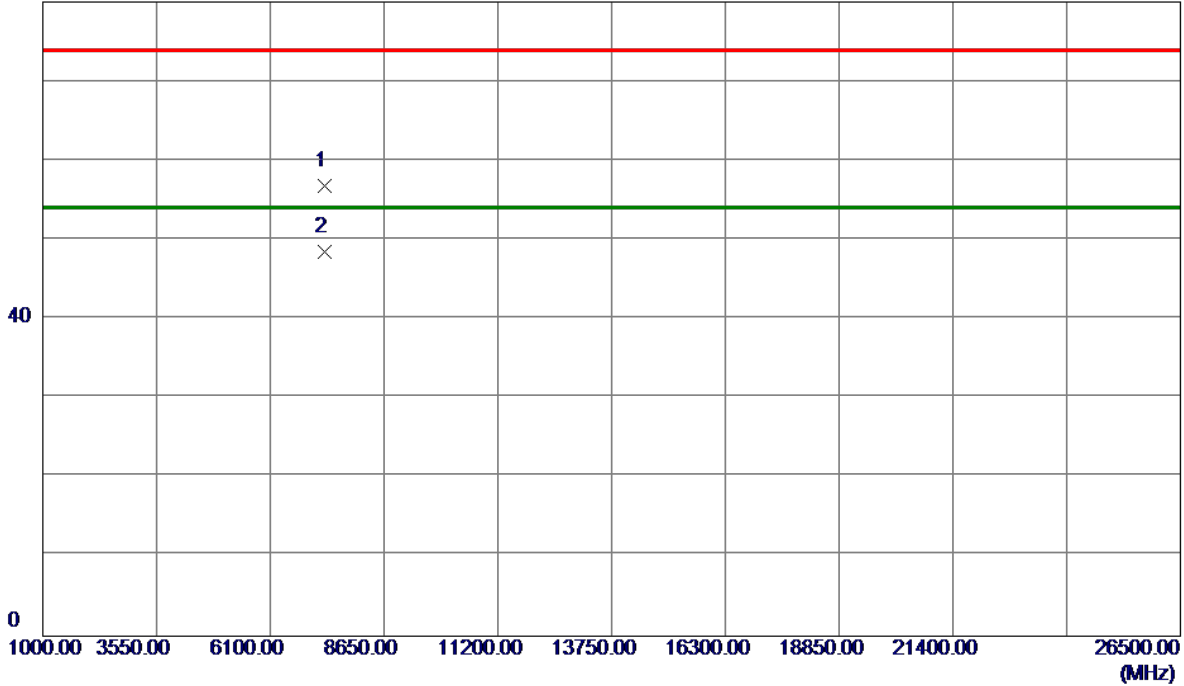


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.7500	47.48	33.24	80.72	74.00	6.72	Peak	No Limit
2 *	2440.0000	42.23	33.24	75.47	54.00	21.47	AVG	No Limit

Test Mode : TX 2440MHz _CH19_1Mbps

Vertical

80 dBuV/m

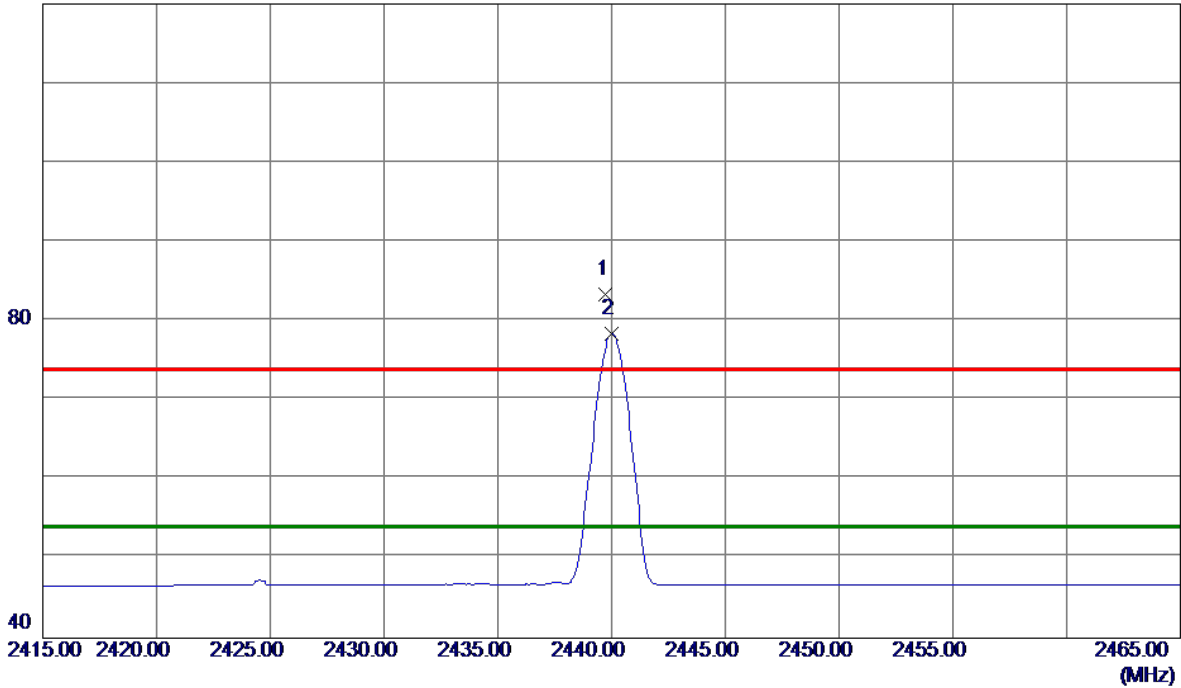


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7319.2540	43.62	13.22	56.84	74.00	-17.16	Peak	
2 *	7320.0800	35.19	13.22	48.41	54.00	-5.59	AVG	

Test Mode : TX 2440MHz _CH19_1Mbps

Horizontal

120 dBuV/m

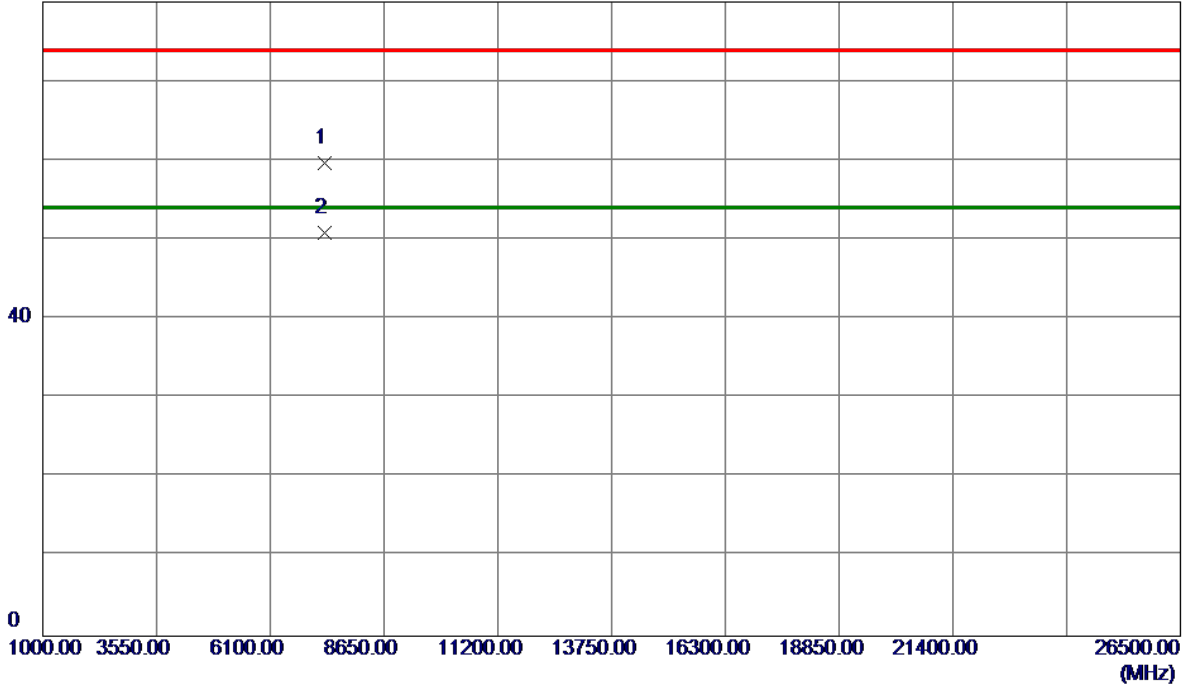


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2439.7500	50.19	33.24	83.43	74.00	9.43	Peak	No Limit
2 *	2440.0000	45.14	33.24	78.38	54.00	24.38	AVG	No Limit

Test Mode : TX 2440MHz _CH19_1Mbps

Horizontal

80 dBuV/m

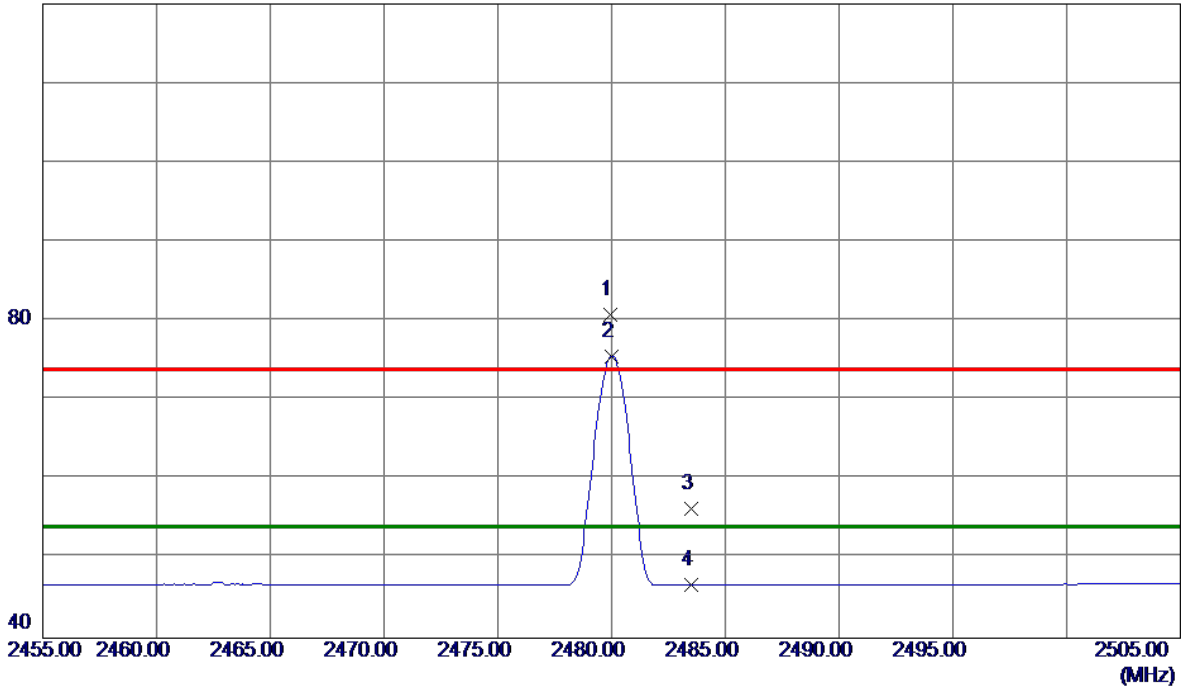


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7319.2020	46.44	13.22	59.66	74.00	-14.34	Peak	
2 *	7320.0180	37.59	13.22	50.81	54.00	-3.19	AVG	

Test Mode : TX 2480MHz _CH39_1Mbps

Vertical

120 dBuV/m

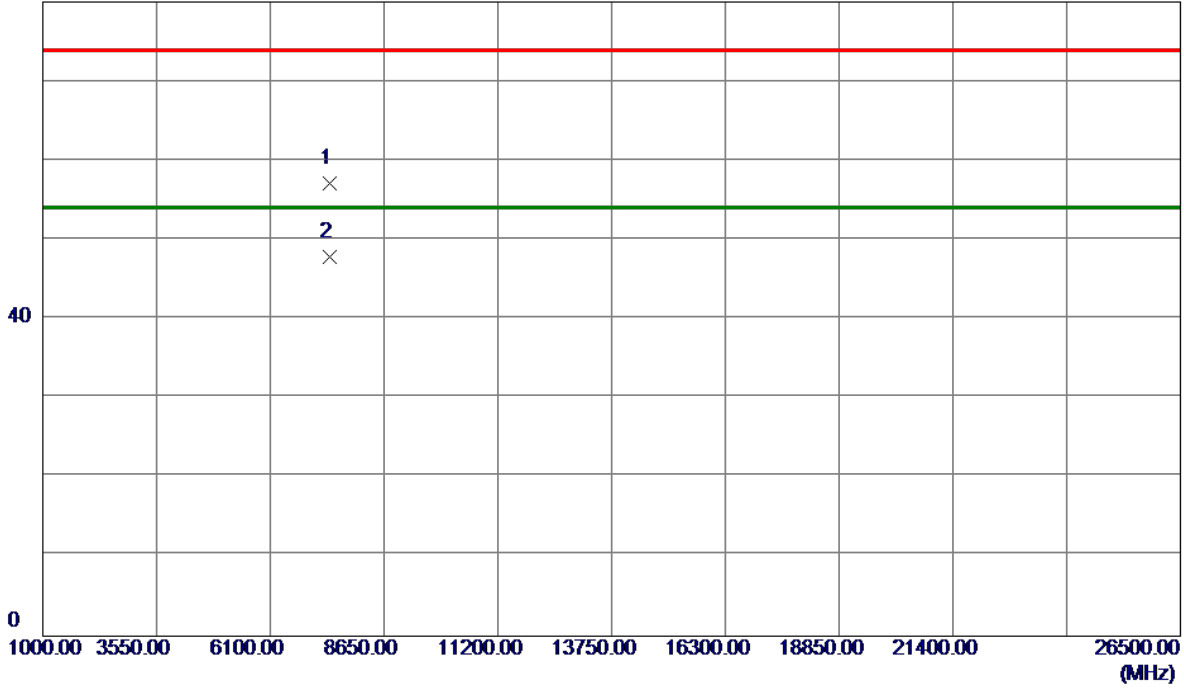


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9500	47.36	33.39	80.75	74.00	6.75	Peak	No Limit
2 *	2480.0000	42.21	33.39	75.60	54.00	21.60	AVG	No Limit
3	2483.5000	22.91	33.41	56.32	74.00	-17.68	Peak	
4	2483.5000	13.27	33.41	46.68	54.00	-7.32	AVG	

Test Mode : TX 2480MHz _CH39_1Mbps

Vertical

80 dBuV/m

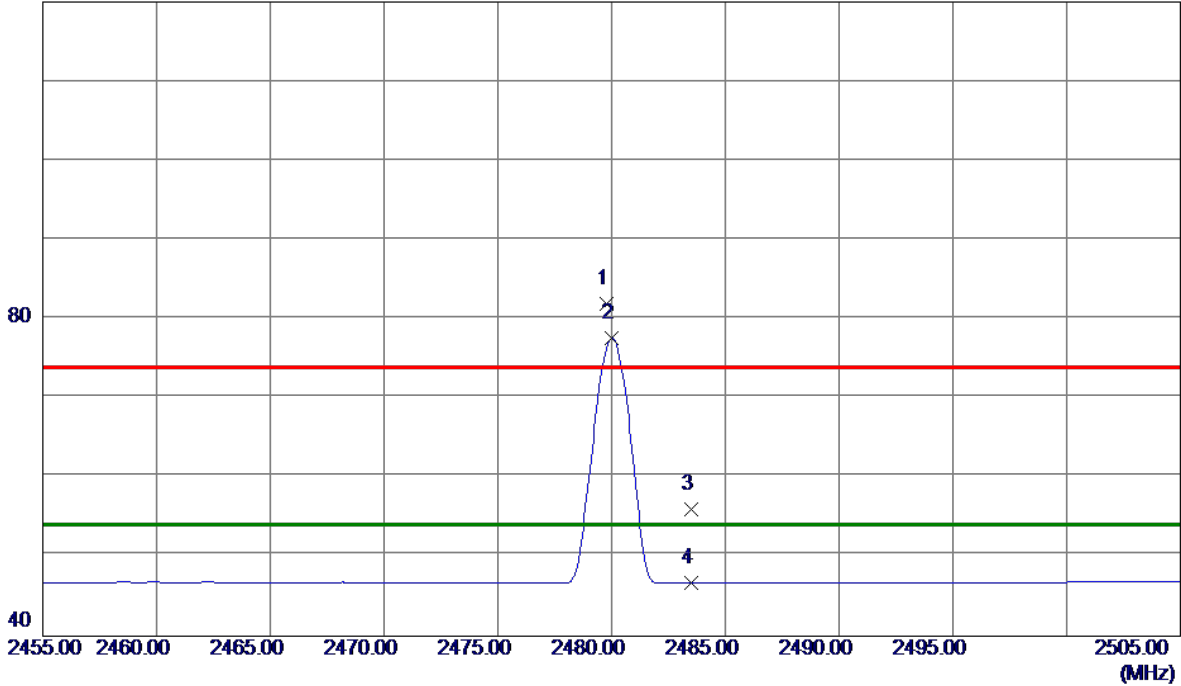


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7439.2140	43.81	13.31	57.12	74.00	-16.88	Peak	
2 *	7440.0420	34.51	13.31	47.82	54.00	-6.18	AVG	

Test Mode : TX 2480MHz _CH39_1Mbps

Horizontal

120 dBuV/m

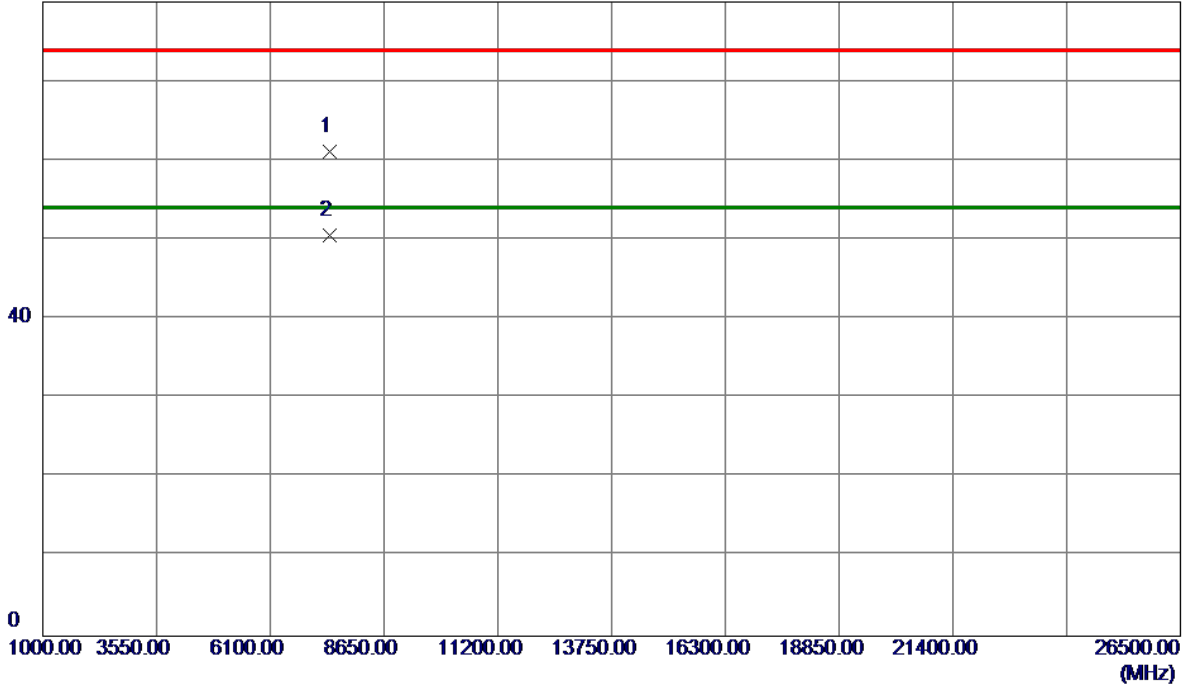


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8000	48.49	33.39	81.88	74.00	7.88	Peak	No Limit
2 *	2480.0000	44.15	33.39	77.54	54.00	23.54	AVG	No Limit
3	2483.5000	22.54	33.41	55.95	74.00	-18.05	Peak	
4	2483.5000	13.27	33.41	46.68	54.00	-7.32	AVG	

Test Mode : TX 2480MHz _CH39_1Mbps

Horizontal

80 dBuV/m



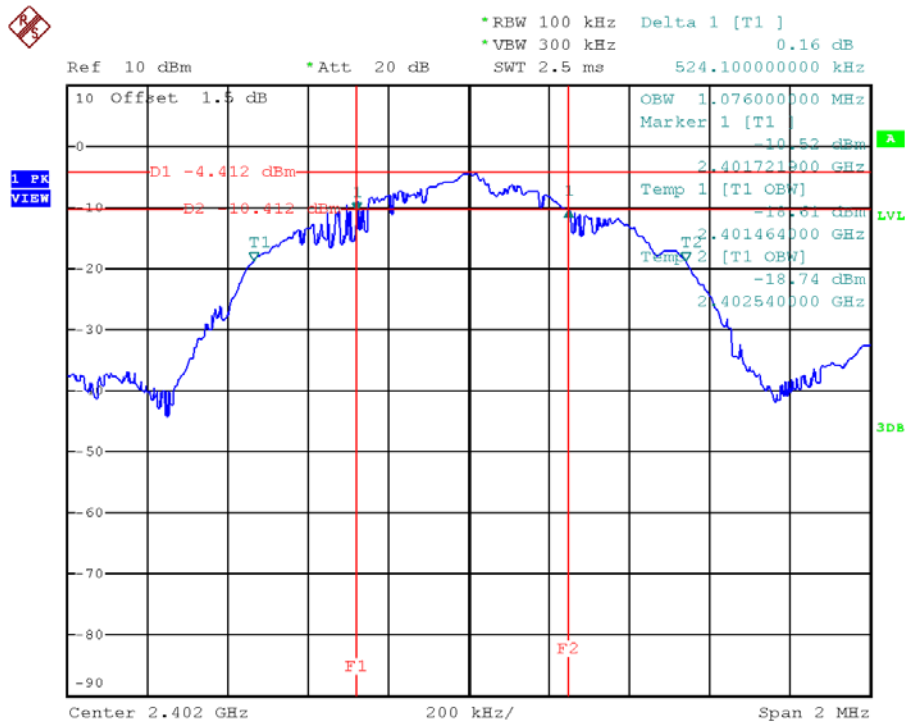
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7439.2120	47.83	13.31	61.14	74.00	-12.86	Peak	
2 *	7439.3420	37.29	13.31	50.60	54.00	-3.40	AVG	

APPENDIX E - BANDWIDTH

Test Mode: TX Mode

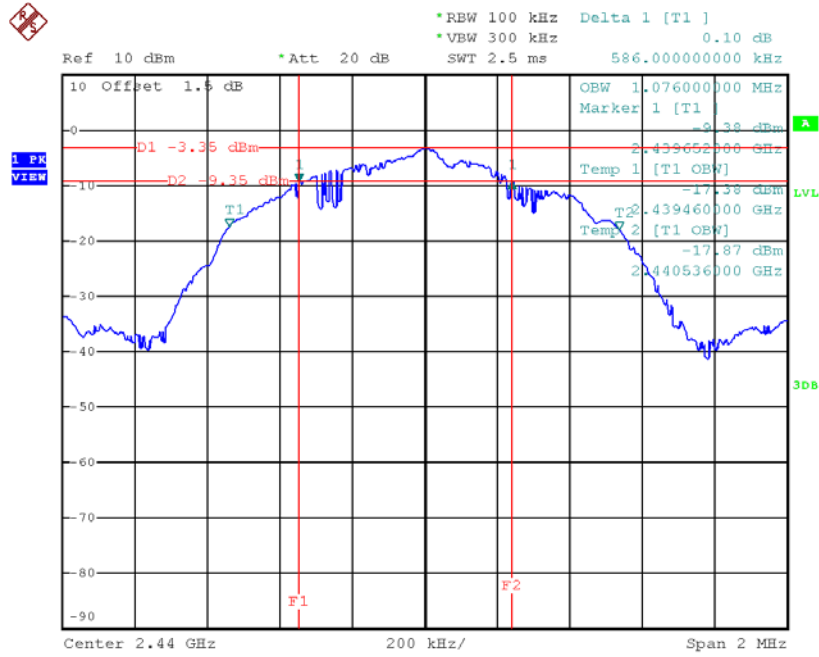
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.524	1.076	500	Pass
2440	0.586	1.076	500	Pass
2480	0.580	1.076	500	Pass

TX CH00



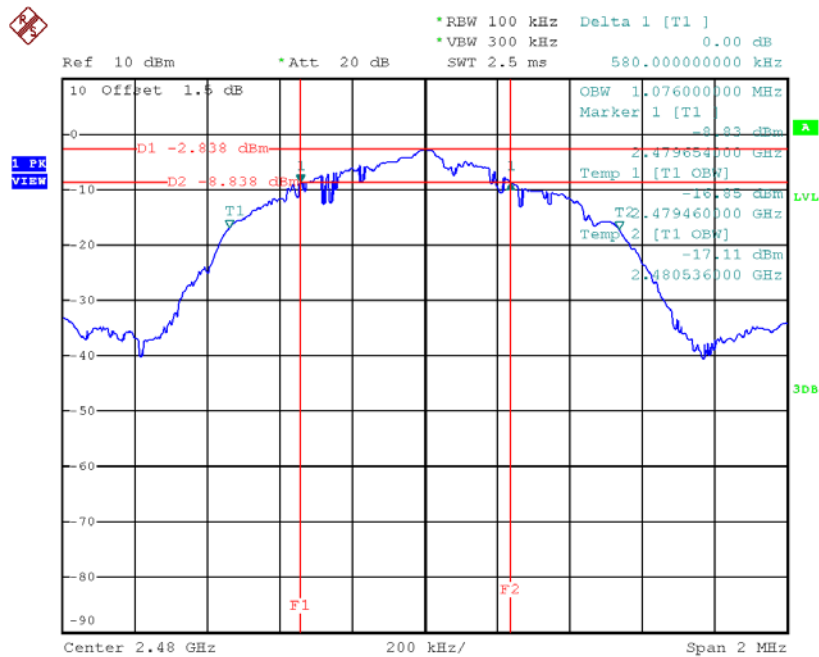
Date: 12.NOV.2017 17:12:13

TX CH19



Date: 12.NOV.2017 17:14:41

TX CH39



Date: 12.NOV.2017 17:16:24

APPENDIX F - MAXIMUM OUTPUT POWER TEST

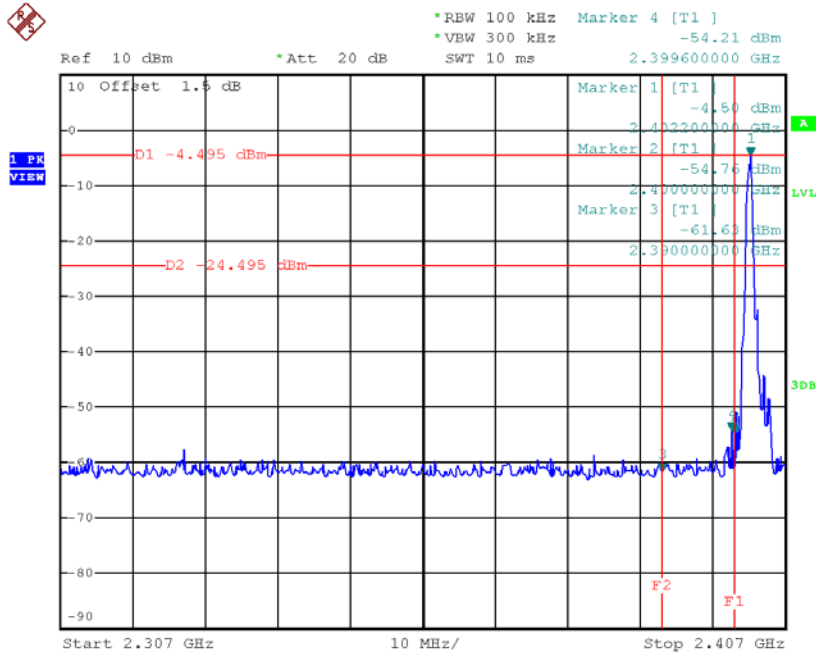
Test Mode : CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-4.21	0.0004	30.00	1.00	Pass
2440	-3.21	0.0005	30.00	1.00	Pass
2480	-2.74	0.0005	30.00	1.00	Pass

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

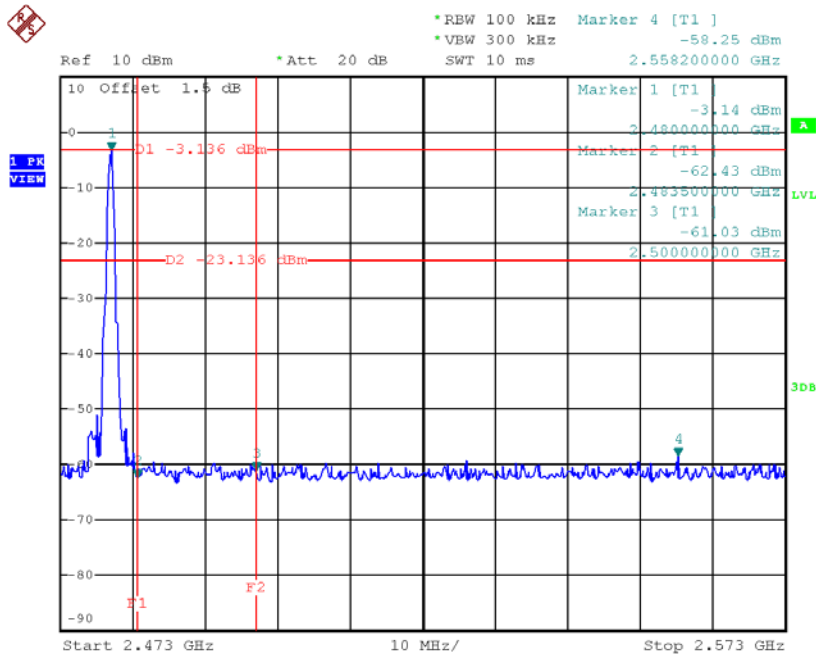
Test Mode : CH00, CH19 , CH39 - 1Mbps

CH00 (Lower) - 1Mbps



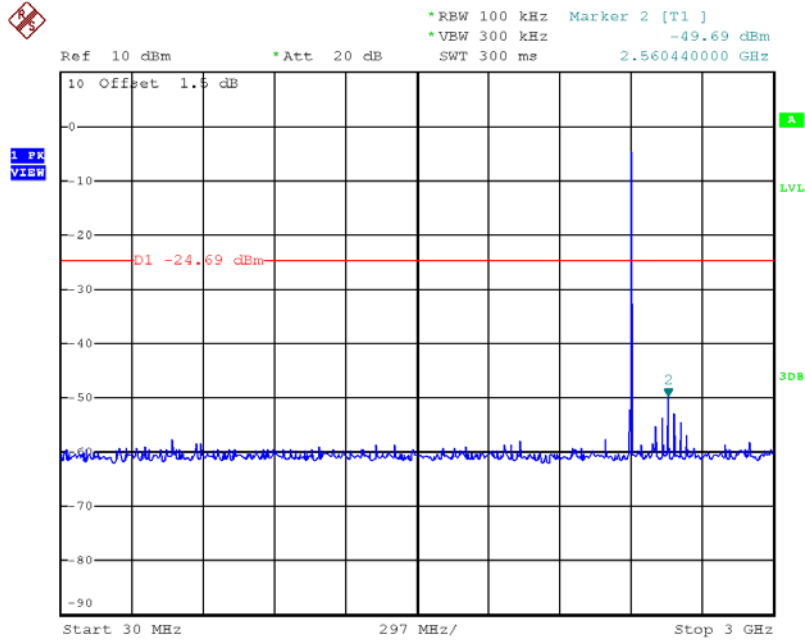
Date: 12.NOV.2017 17:12:20

CH39 (upper) - 1Mbps



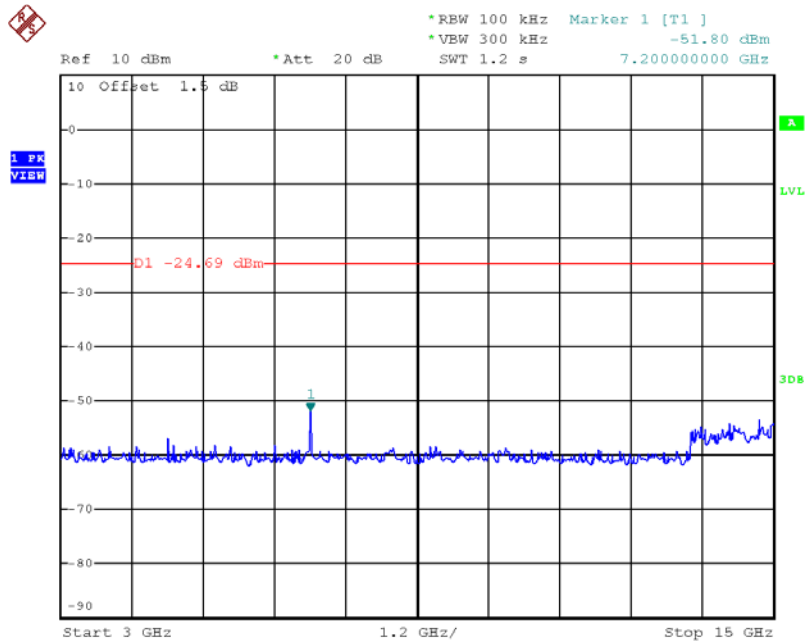
Date: 12.NOV.2017 17:16:32

CH00 (10 Harmonic of the frequency) 1



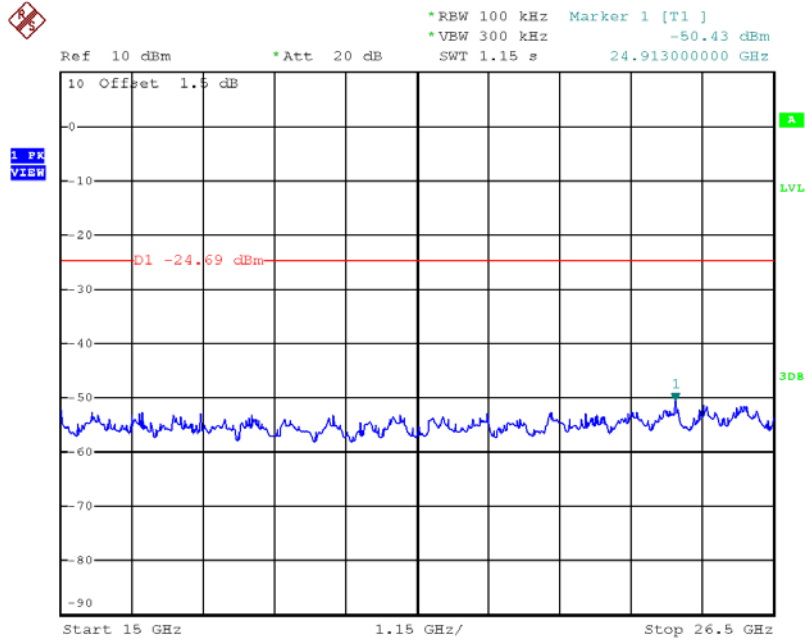
Date: 12.NOV.2017 17:12:33

CH00 (10 Harmonic of the frequency) 2



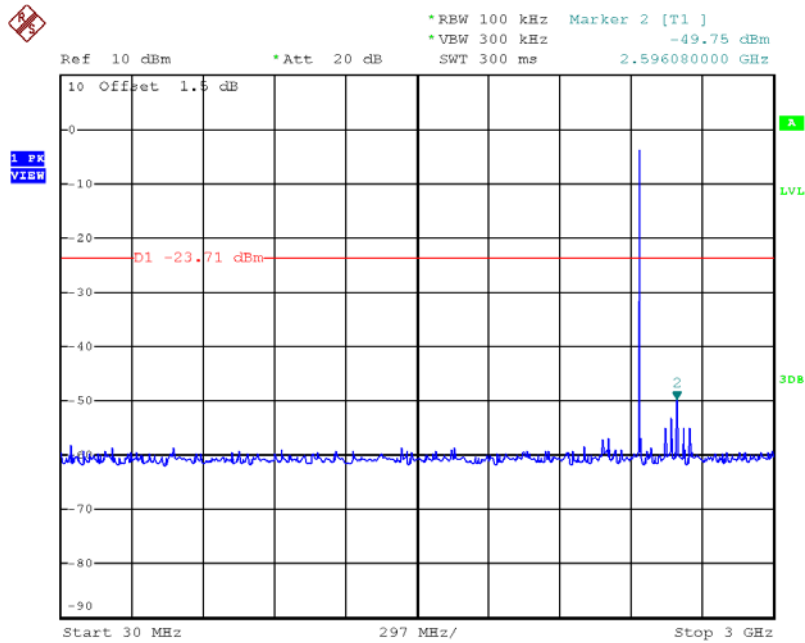
Date: 12.NOV.2017 17:12:40

CH00 (10 Harmonic of the frequency) 3



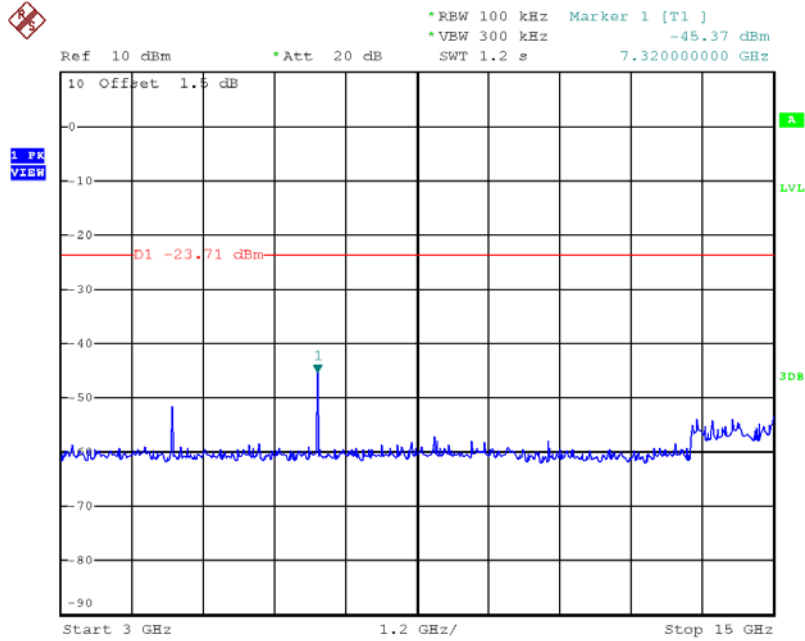
Date: 12.NOV.2017 17:12:47

CH19 (10 Harmonic of the frequency) 1



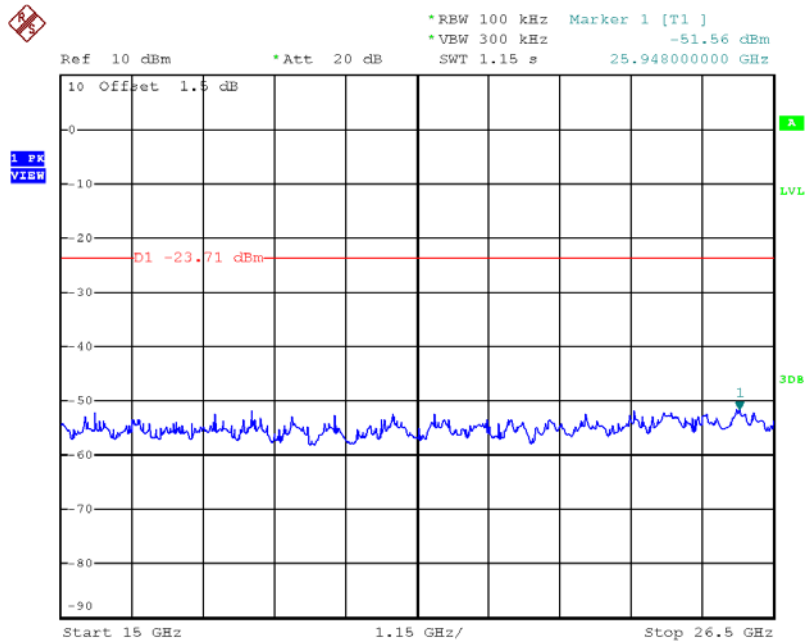
Date: 12.NOV.2017 17:14:54

CH19 (10 Harmonic of the frequency) 2



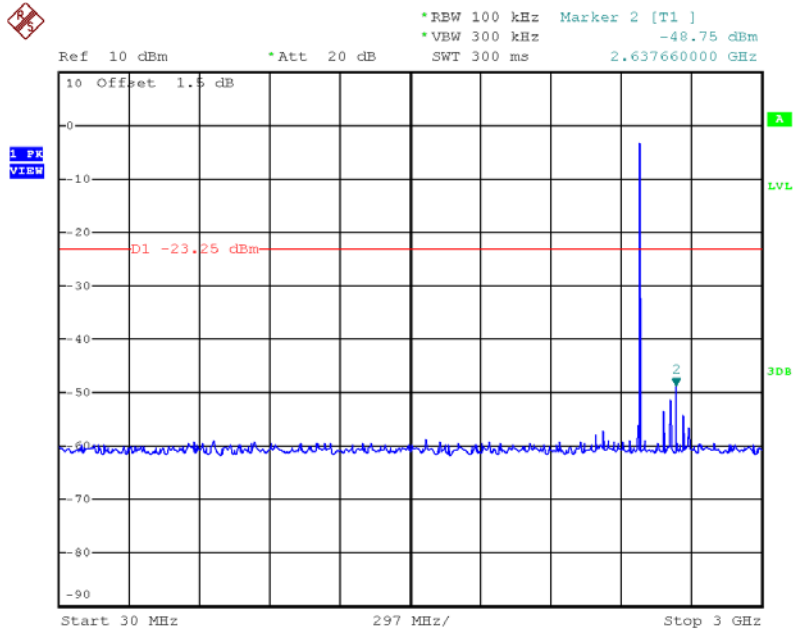
Date: 12.NOV.2017 17:15:01

CH19 (10 Harmonic of the frequency) 3



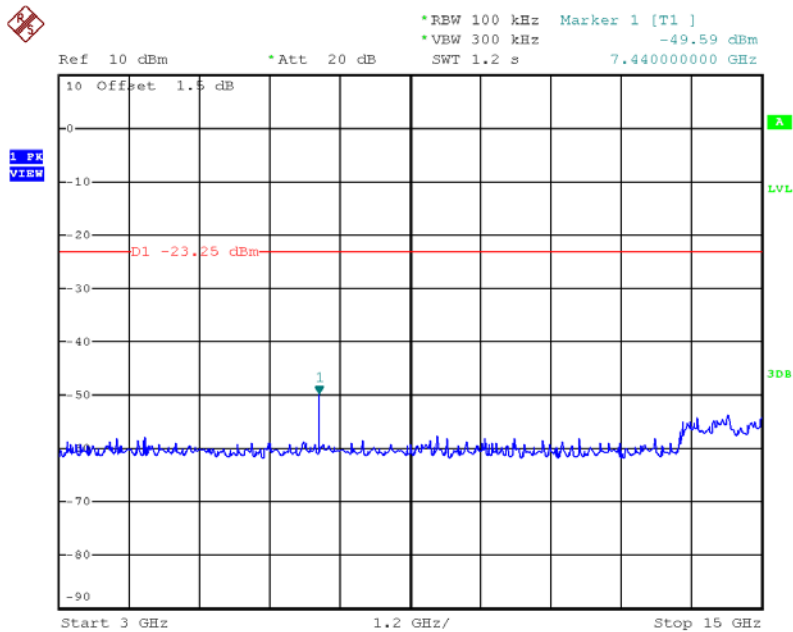
Date: 12.NOV.2017 17:15:08

CH39 (10 Harmonic of the frequency) 1



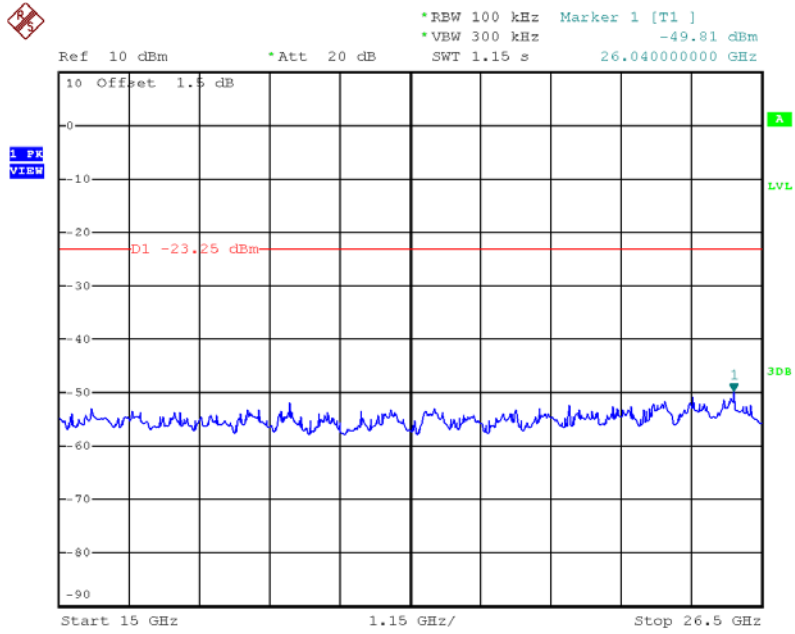
Date: 12.NOV.2017 17:16:46

CH39 (10 Harmonic of the frequency) 2



Date: 12.NOV.2017 17:16:54

CH39 (10 Harmonic of the frequency) 3

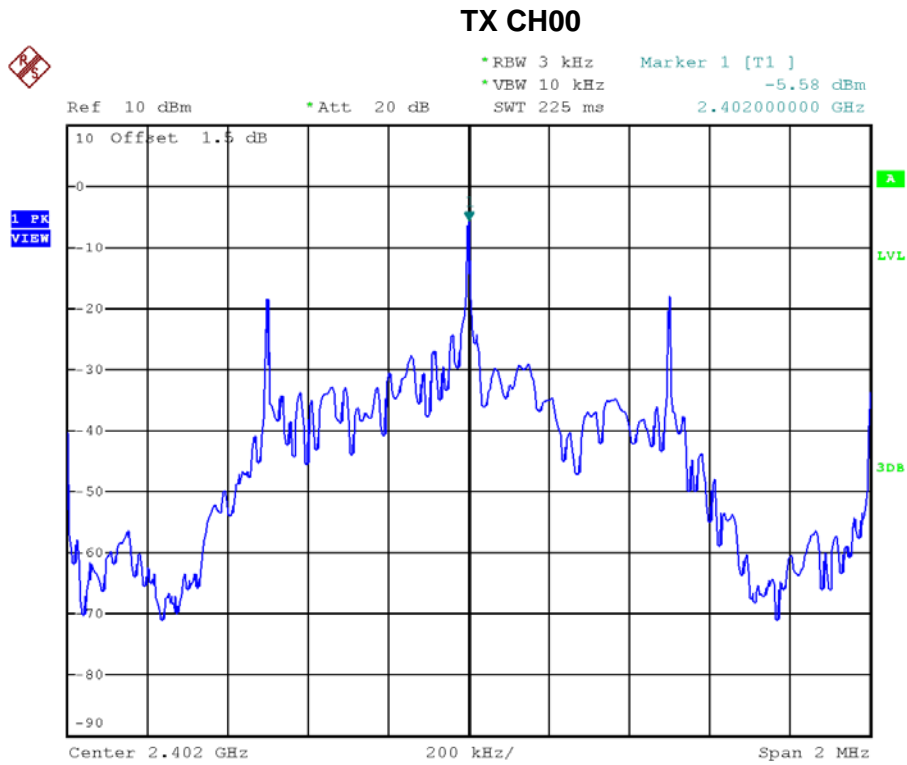


Date: 12.NOV.2017 17:17:02

APPENDIX H - POWER SPECTRAL DENSITY TEST

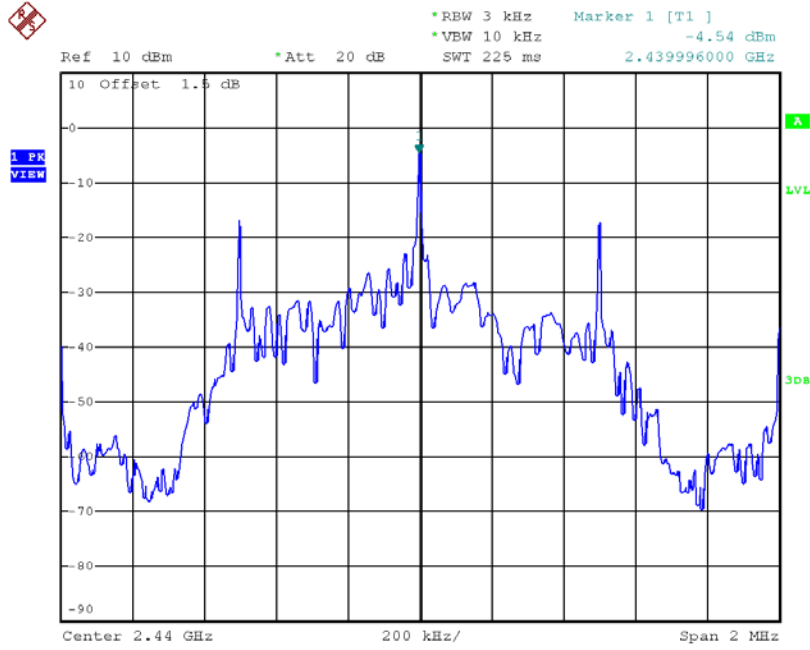
Test Mode: CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-5.580	0.277	8.00	Pass
2440	-4.540	0.352	8.00	Pass
2480	-4.040	0.394	8.00	Pass



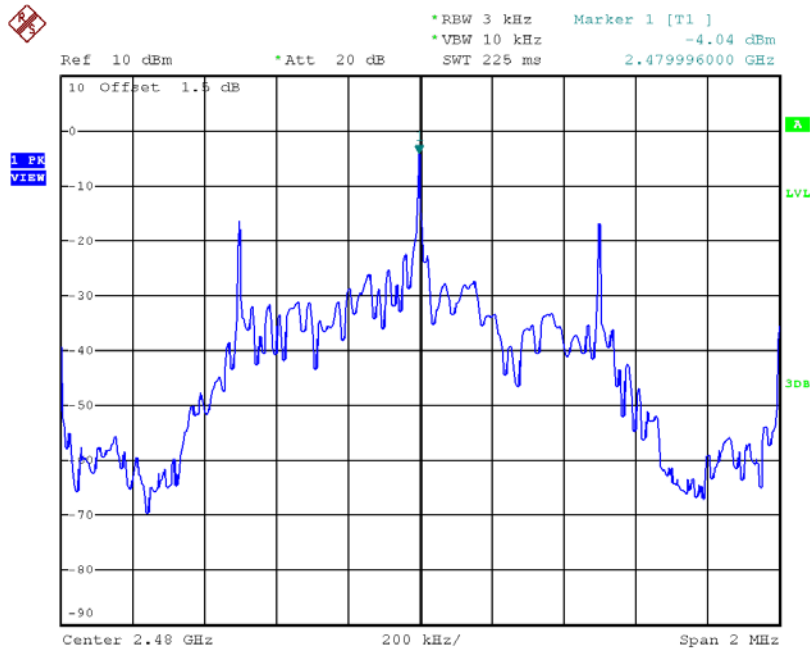
Date: 12.NOV.2017 17:12:53

TX CH19



Date: 12.NOV.2017 17:15:13

TX CH39



Date: 12.NOV.2017 17:17:09

ATTACHMENT

PHOTOGRAPHS OF EUT







Adapter: GPE018A-050200-Z





Adapter: S018BAM0500200



