

FCC ID: XQW-FBTPR5002

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1611C056	Original Issue.	Jan. 23, 2017

1. CERTIFICATION

Equipment : FENDER MONTEREY BLUETOOTH SPEAKER
Brand Name : FENDER
Test Model : MONTEREY(PR5002)
Applicant : Fender Musical Instruments
Manufacturer : Fender Musical Instruments
Address : 17600 N Perimeter Dr. #100, Scottsdale, AZ 85255 U.S.A
Factory : Premium Loudspeakers (Huizhou) Co., Ltd
Address : Tymphony Industrial Area, Xin Lian Village, Xin Xu Town, Hui Yang District, Hui Zhou City, Guangdong, P.R. China
Date of Test : Jan. 09, 2017 ~ Jan. 20, 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-1-1611C056) 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).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247 (a)(1)	Hopping Channel Separation	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247 (b)(1)	Peak Output Power	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.205	Restricted Bands	PASS	
15.203	Antenna Requirement	PASS	

Note:

(1)" N/A" denotes test is not applicable in this test report

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	FENDER MONTEREY BLUETOOTH SPEAKER	
Brand Name	FENDER	
Test Model	MONTEREY(PR5002)	
Model Difference	N/A	
Output Power (Max.)	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps) π /4-DQPSK(2Mbps)
	Bit Rate of Transmitter	8-DPSK(3Mbps)
	Output Power Max.	8.94 dBm(1Mbps) 8.68 dBm(3Mbps)
Power Source	AC Mains.	
Power Rating	AC 100V-240V 50/60Hz 90W	

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)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TYMPHANY	N/A	Chip	N/A	1.19

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 Emission	
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode Note (1)

Note:

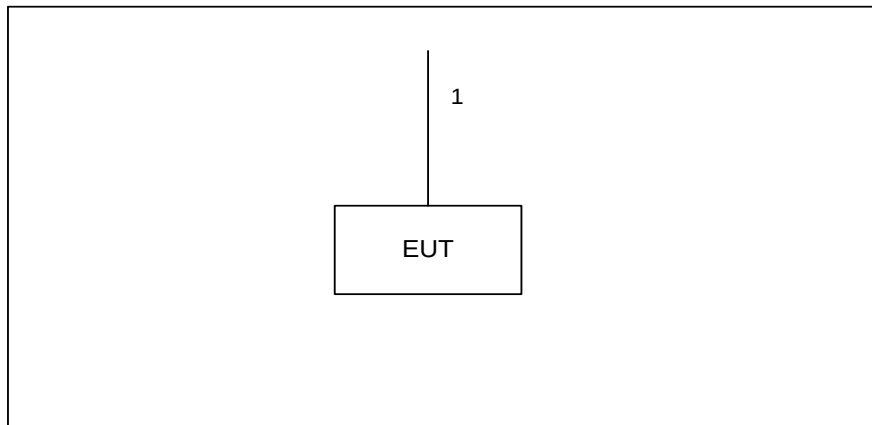
- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

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 FHSS

Test Software Version	Blue Test 3		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	63	57	62
Parameters(3Mbps)	63	63	63

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	NO	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 (dBμV)	
	Quasi-peak	Average□
0.15 -0.50	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

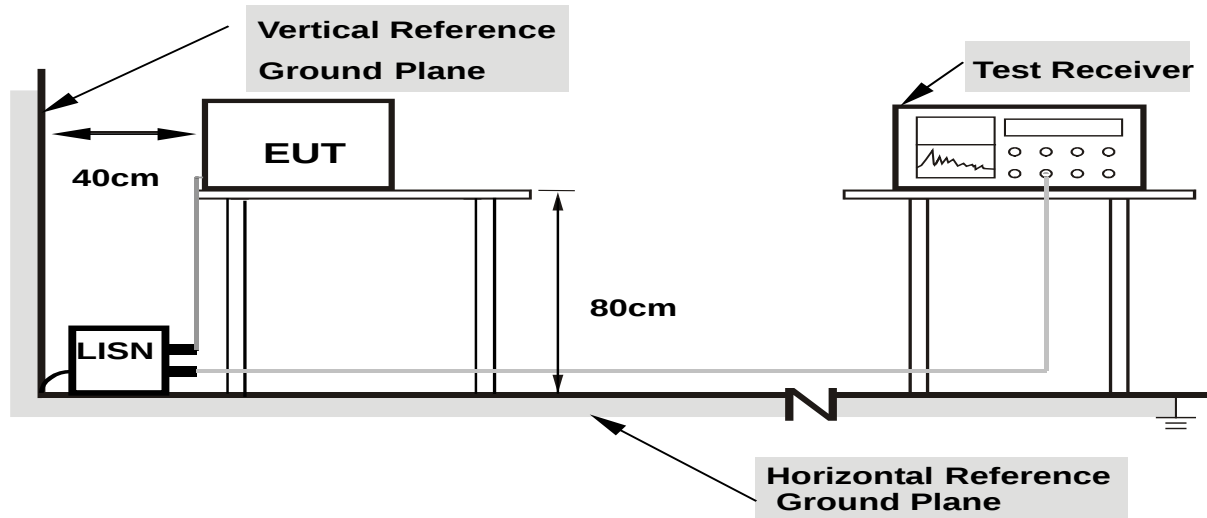
4.1.2 TEST PROCEDURE

- 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 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.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz -1000MHz)

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.

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/RSS-247.
- (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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Spectrum 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

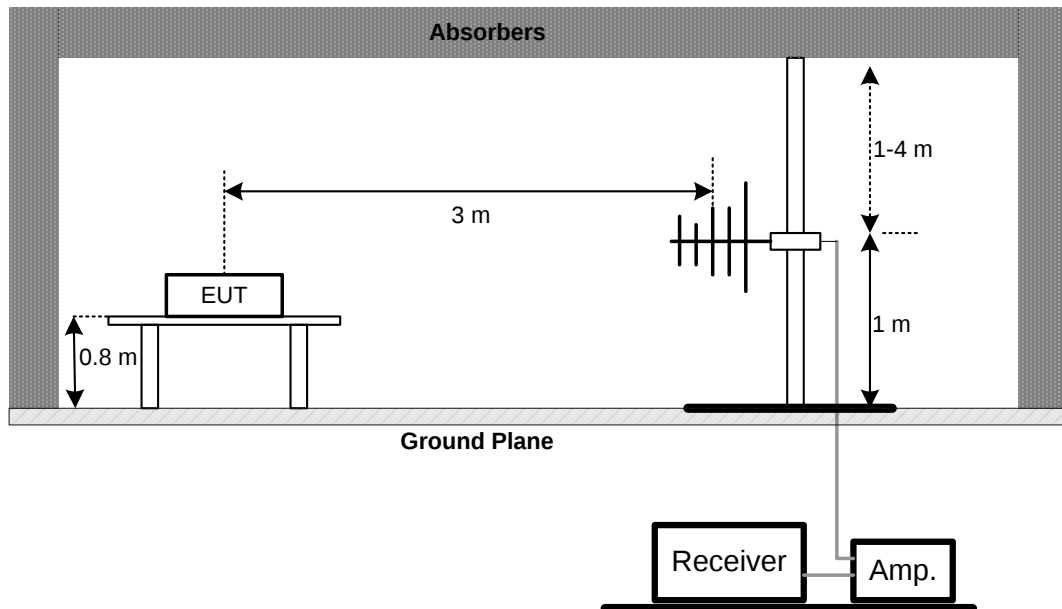
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 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 0.8m 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.
- 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

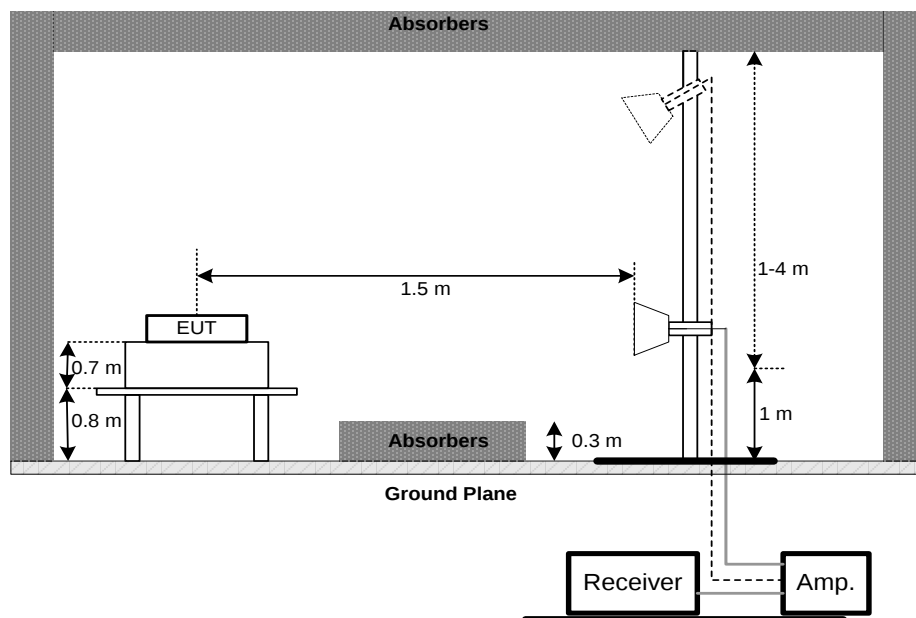
No deviation

4.2.4 TEST SETUP

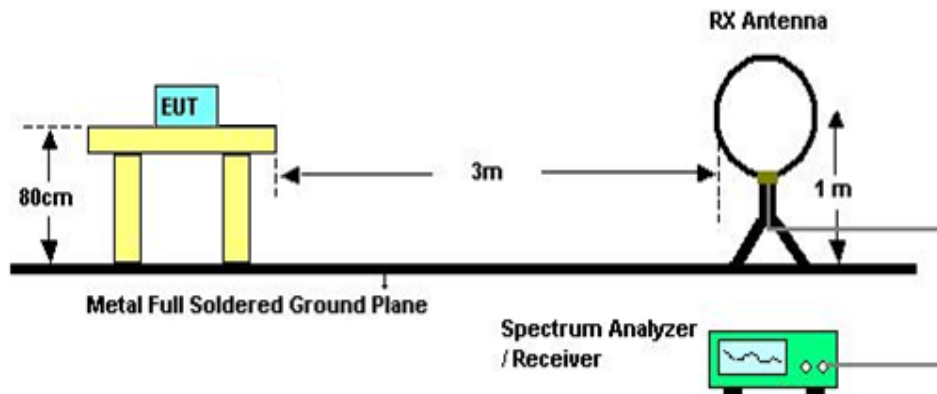
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

4.2.7 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.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment 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. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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=100KHz, Sweep time = Auto.

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. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

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: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F

7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

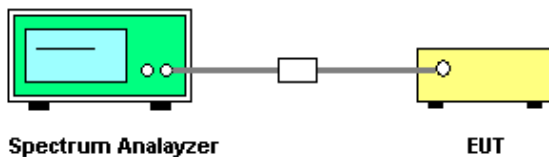
7.1.1 TEST PROCEDURE

- The EUT must have its hopping function enabled
- Span = wide enough to capture the peaks of two adjacent channels
 Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span
 Video (or Average) Bandwidth (VBW) $\geq$ RBW
 Sweep = Auto
 Detector function = Peak
 Trace = Max Hold

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT TEST CONDITIONS

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

7.1.5 TEST RESULTS

Please refer to the Attachment G

8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C		
Section	Test Item	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	2400-2483.5

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz (20dB Bandwidth) / 30 KHz (Channel Separation)
VBW	100 KHz (20dB Bandwidth) / 100 KHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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= 30KHz, VBW=100KHz, 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. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	1 Watt or 30dBm (hopping channel >75) 0.125Watt or 21dBm (hopping channel <75)	2400-2483.5	PASS

9.1.1 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= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP



9.1.4 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.

9.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

9.1.6 TEST RESULTS

Please refer to the Attachment I

10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 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.

10.1.1 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=100KHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

10.1.2 DEVIATION FROM STANDARD

No deviation.

10.1.3 TEST SETUP



10.1.4 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.

10.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

10.1.6 TEST RESULTS

Please refer to the Attachment J

11. 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	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 27, 2017
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	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2017
9	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
10	Antenna	EM	EM-6876-1	230	Jul. 08, 2017
11	Controller	CT	SC100	N/A	N/A
12	Controller	MF	MF-7802	MF780208416	N/A
13	Cable		EMC104-SM-S M-12000(12m)	N/A	Jul. 06, 2017

Number of Hopping Channel					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Average Time of Occupancy					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

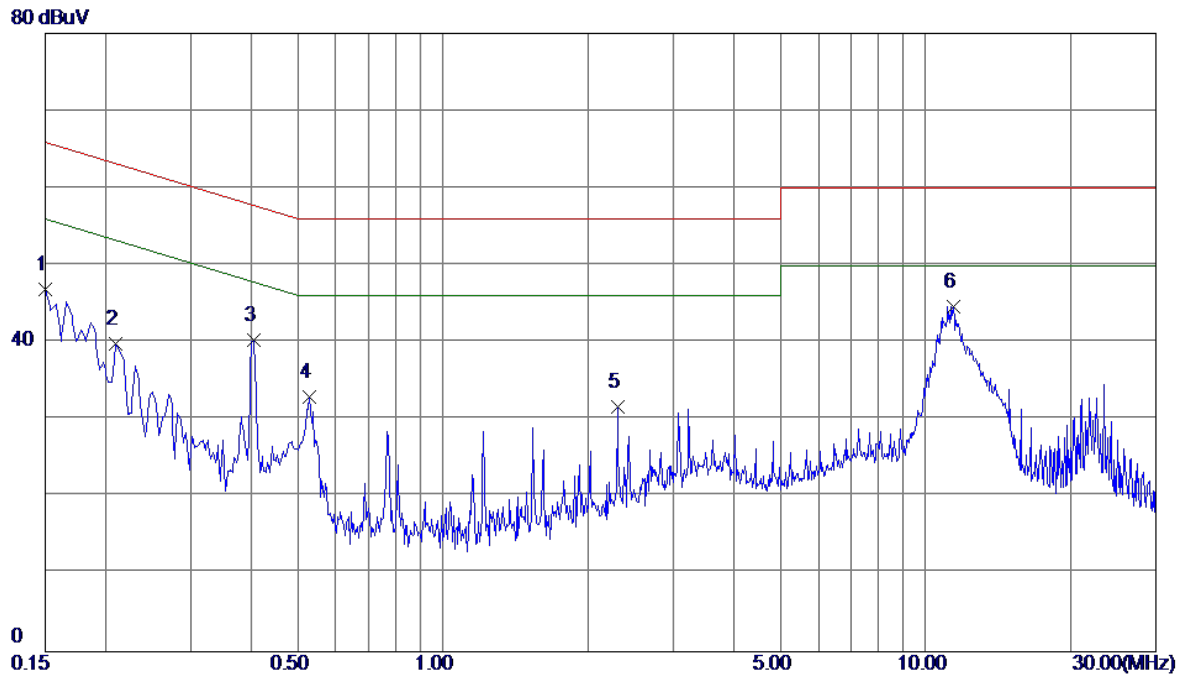
Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

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

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode

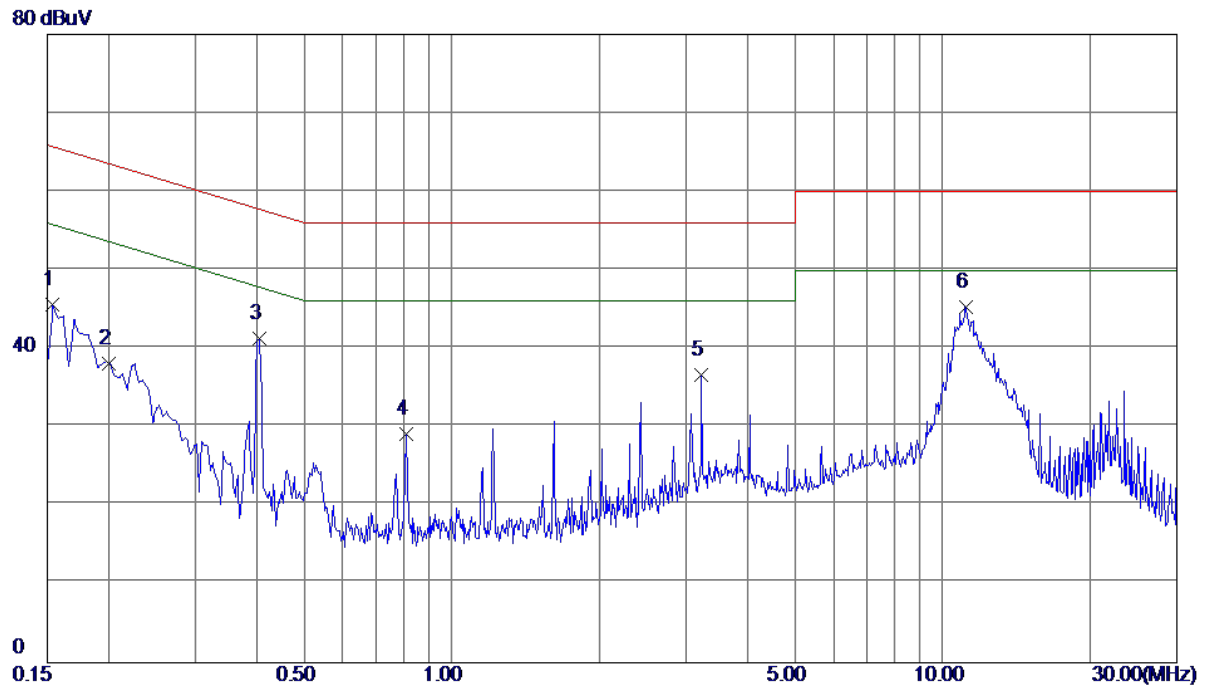
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	37.29	9.57	46.86	66.00	-19.14	Peak	
2	0.2100	30.25	9.57	39.82	63.21	-23.39	Peak	
3	0.4060	30.76	9.59	40.35	57.73	-17.38	Peak	
4	0.5299	23.22	9.69	32.91	56.00	-23.09	Peak	
5	2.3060	21.48	10.15	31.63	56.00	-24.37	Peak	
6 *	11.4100	34.11	10.55	44.66	60.00	-15.34	Peak	

Test Mode: TX Mode

Neutral

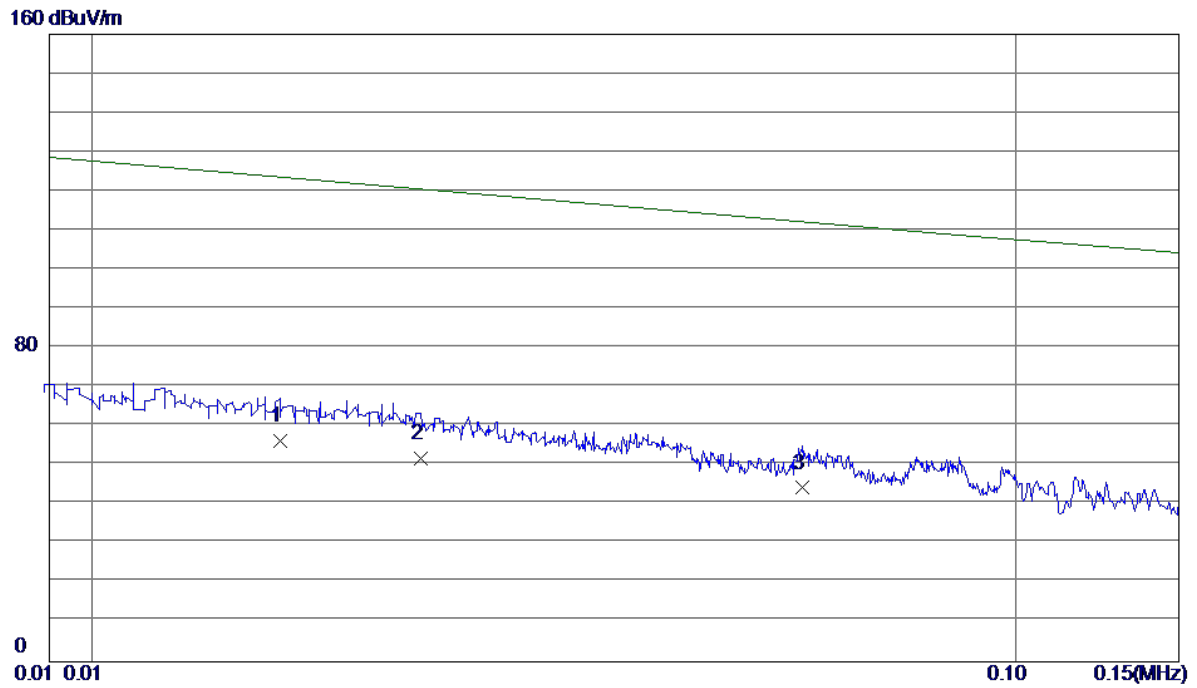


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1539	36.06	9.55	45.61	65.79	-20.18	Peak	
2	0.1997	28.58	9.57	38.15	63.62	-25.47	Peak	
3	0.4060	31.86	9.48	41.34	57.73	-16.39	Peak	
4	0.8059	19.55	9.63	29.18	56.00	-26.82	Peak	
5	3.2300	26.59	9.99	36.58	56.00	-19.42	Peak	
6 *	11.1580	34.73	10.62	45.35	60.00	-14.65	Peak	

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

Test Mode:	TX Mode
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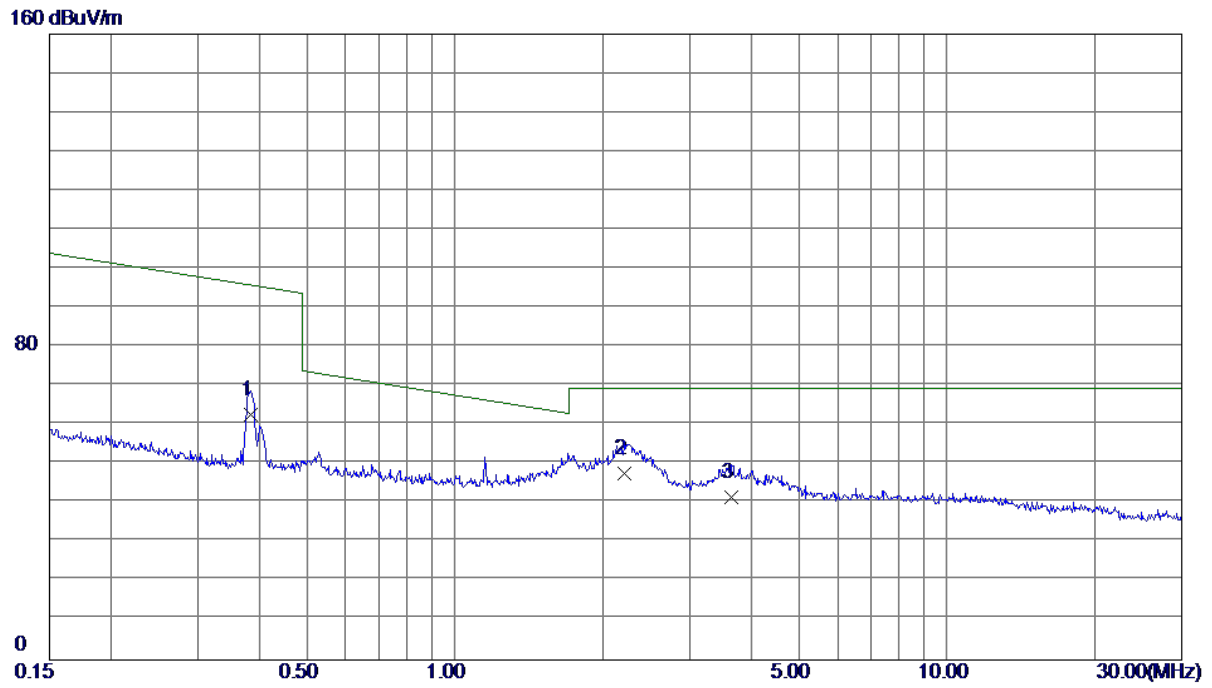
Ant 0°



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	0.0160	32.71	23.76	56.47	126.77	-70.30	AVG	
2	0.0227	28.50	23.19	51.69	125.11	-73.42	AVG	
3	0.0588	24.60	19.72	44.32	116.20	-71.88	AVG	

Test Mode: TX Mode

Ant 0°

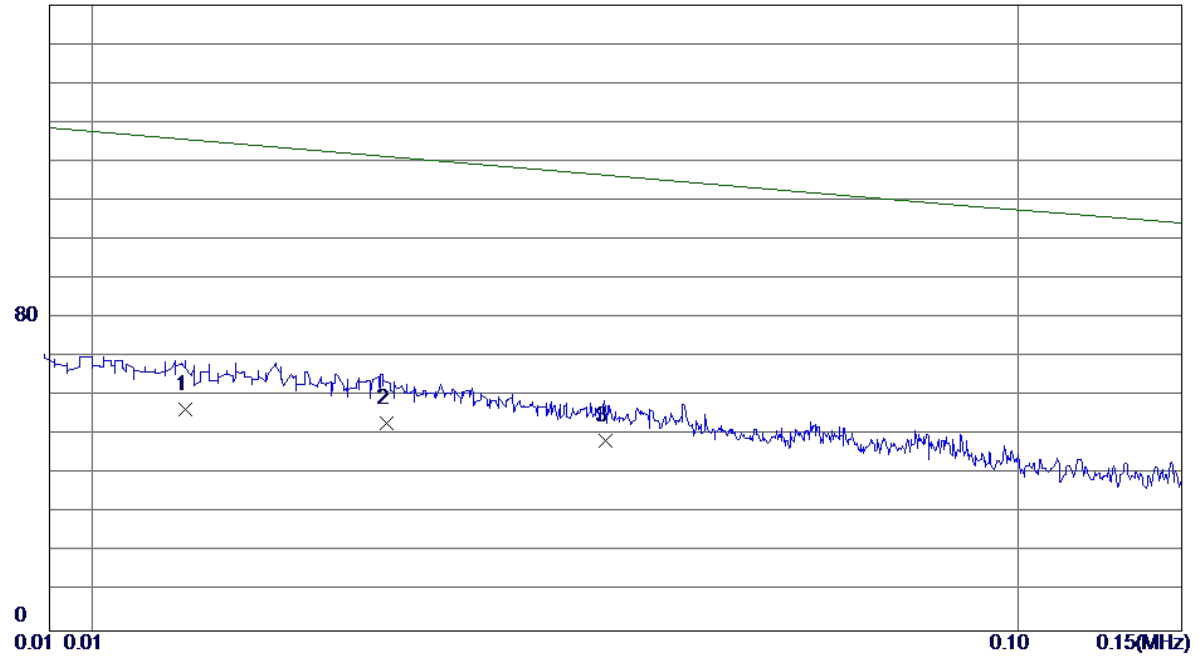


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3852	44.10	18.50	62.60	97.38	-34.78	AVG	
2 *	2.2132	30.10	17.63	47.73	69.54	-21.81	QP	
3	3.6418	23.61	17.99	41.60	69.54	-27.94	QP	

Test Mode: TX Mode

Ant 90°

160 dBuV/m

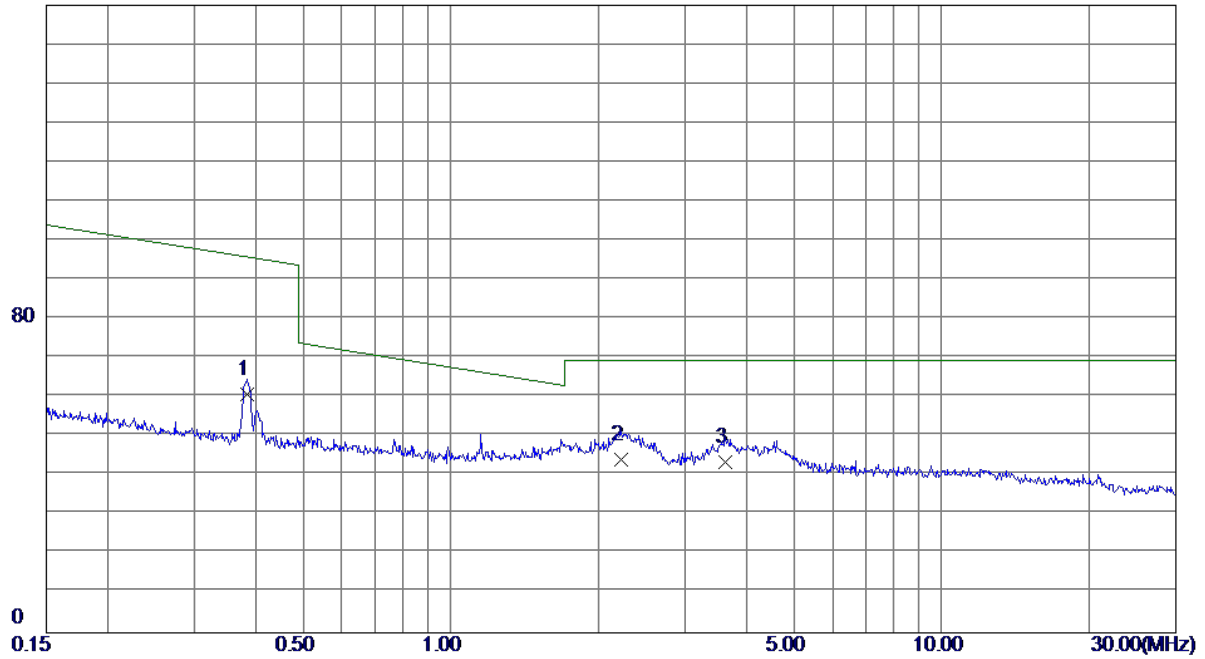


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	0.0126	32.80	23.96	56.76	127.61	-70.85	AVG	
2	0.0208	29.60	23.42	53.02	125.58	-72.56	AVG	
3	0.0358	27.10	21.57	48.67	121.88	-73.21	AVG	

Test Mode: TX Mode

Ant 90°

160 dBuV/m



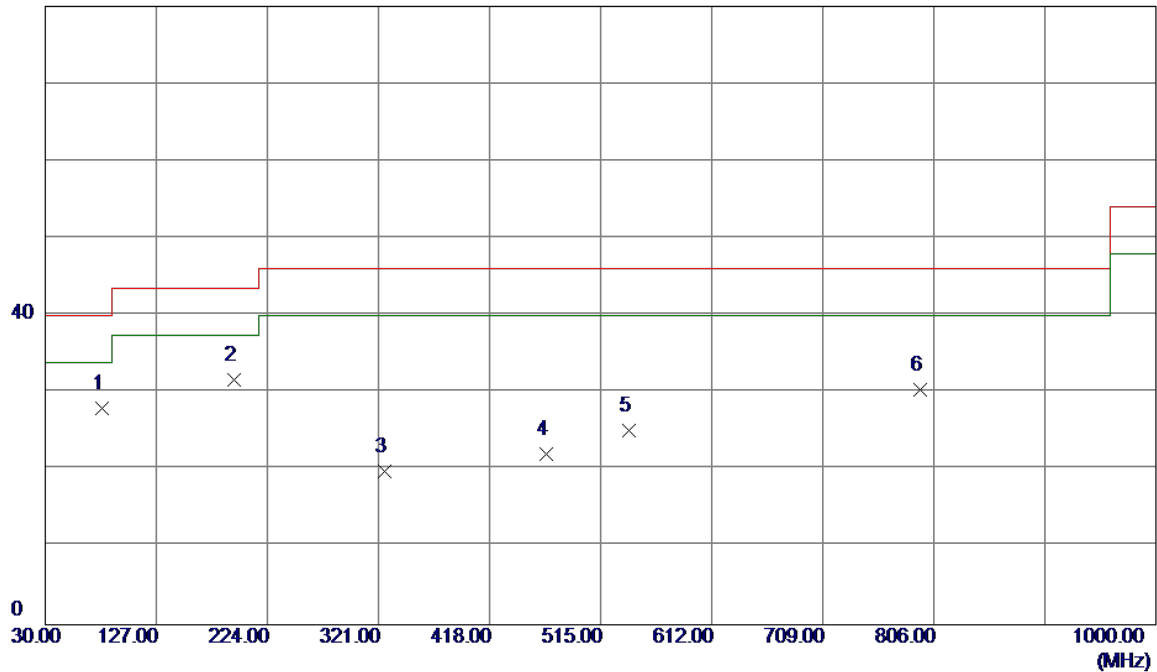
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3852	42.30	18.50	60.80	97.38	-36.58	AVG	
2 *	2.2250	26.50	17.62	44.12	69.54	-25.42	QP	
3	3.6225	25.71	17.95	43.66	69.54	-25.88	QP	

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

Test Mode: TX 2402MHz _CH00_1Mbps

Vertical

80 dBuV/m

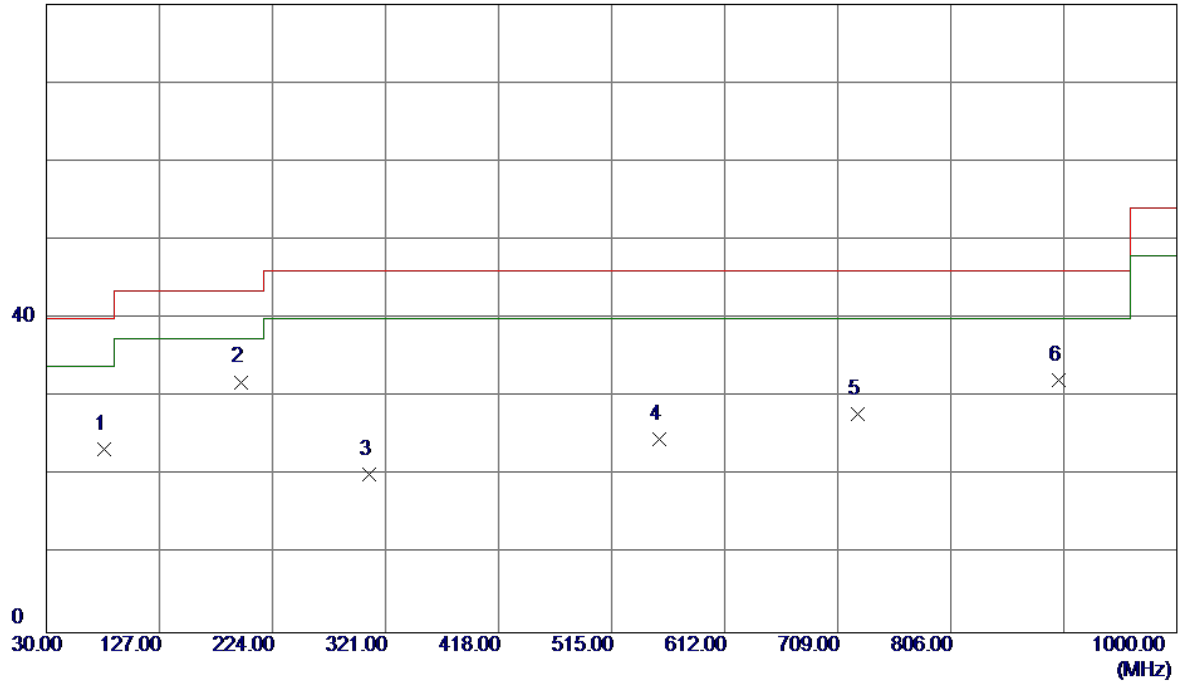


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	79.4700	44.07	-16.10	27.97	40.00	-12.03	Peak	
2 *	194.9000	45.84	-14.18	31.66	43.50	-11.84	Peak	
3	325.8500	30.62	-10.71	19.91	46.00	-26.09	Peak	
4	467.4700	30.71	-8.60	22.11	46.00	-23.89	Peak	
5	540.2199	30.70	-5.55	25.15	46.00	-20.85	Peak	
6	794.3600	30.44	0.01	30.45	46.00	-15.55	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps

Horizontal

80 dBuV/m

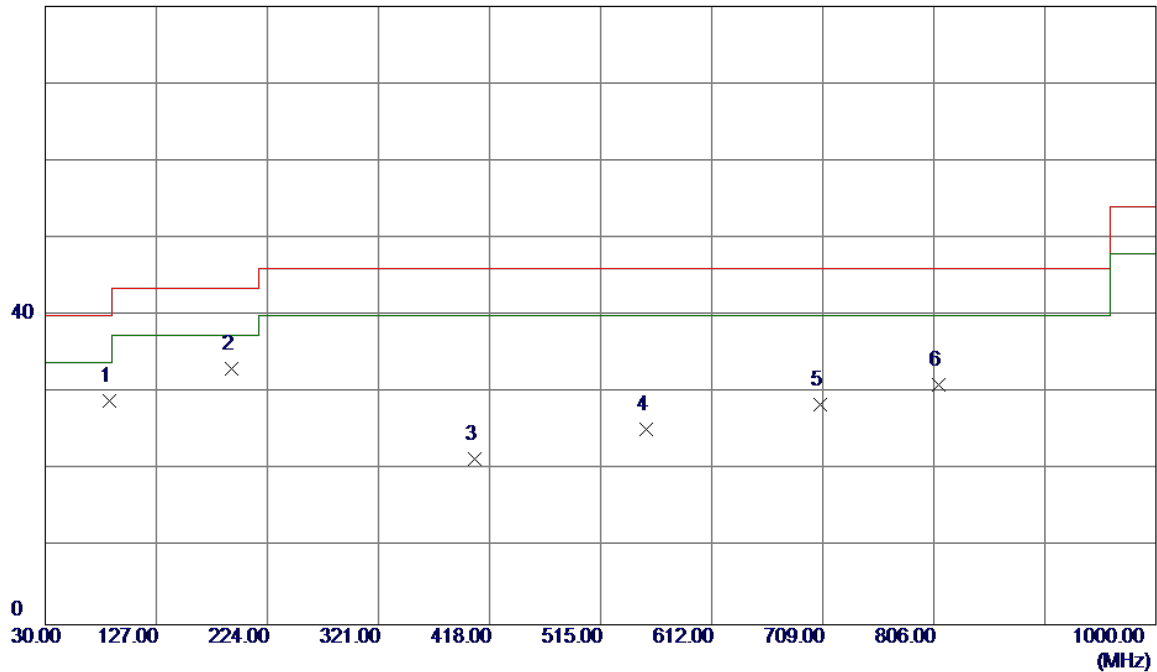


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	79.4700	39.41	-16.10	23.31	40.00	-16.69	Peak	
2 *	196.8400	46.19	-14.27	31.92	43.50	-11.58	Peak	
3	307.4200	30.50	-10.32	20.18	46.00	-25.82	Peak	
4	555.7400	29.50	-4.83	24.67	46.00	-21.33	Peak	
5	726.4600	29.81	-2.03	27.78	46.00	-18.22	Peak	
6	899.1200	29.61	2.57	32.18	46.00	-13.82	Peak	

Test Mode: TX 2441MHz _CH39_1Mbps

Vertical

80 dBuV/m

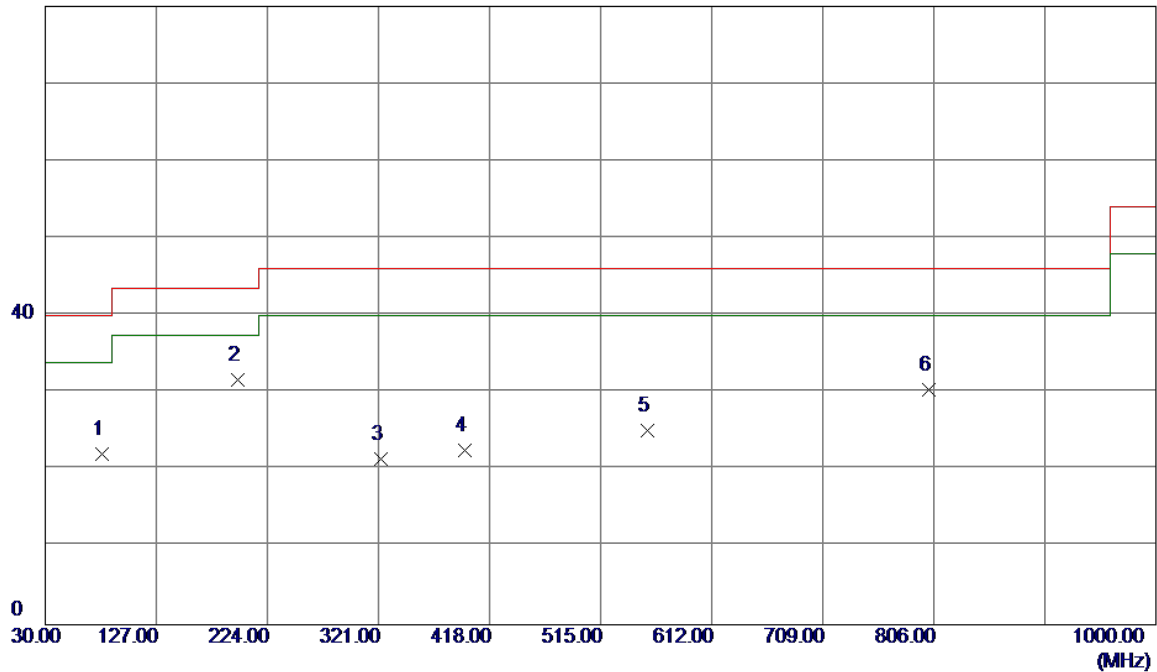


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	86.2600	46.42	-17.41	29.01	40.00	-10.99	Peak	
2 *	192.9600	47.19	-14.08	33.11	43.50	-10.39	Peak	
3	405.3900	29.19	-7.80	21.39	46.00	-24.61	Peak	
4	554.7700	30.09	-4.78	25.31	46.00	-20.69	Peak	
5	707.0600	30.52	-2.08	28.44	46.00	-17.56	Peak	
6	809.8800	31.06	-0.04	31.02	46.00	-14.98	Peak	

Test Mode: TX 2441MHz _CH39_1Mbps

Horizontal

80 dBuV/m

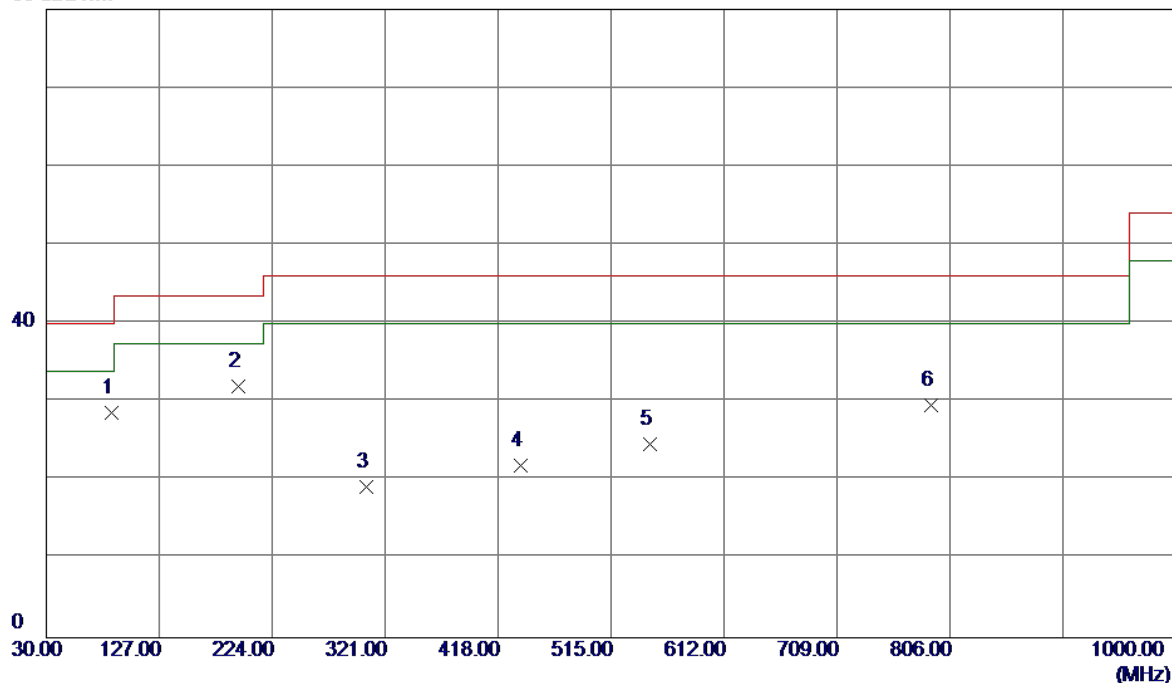


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	79.4700	38.16	-16.10	22.06	40.00	-17.94	Peak	
2 *	197.8100	45.97	-14.32	31.65	43.50	-11.85	Peak	
3	322.9400	32.15	-10.65	21.50	46.00	-24.50	Peak	
4	396.6600	30.61	-8.01	22.60	46.00	-23.40	Peak	
5	555.7400	29.94	-4.83	25.11	46.00	-20.89	Peak	
6	802.1200	30.24	0.20	30.44	46.00	-15.56	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps

Vertical

80 dBuV/m

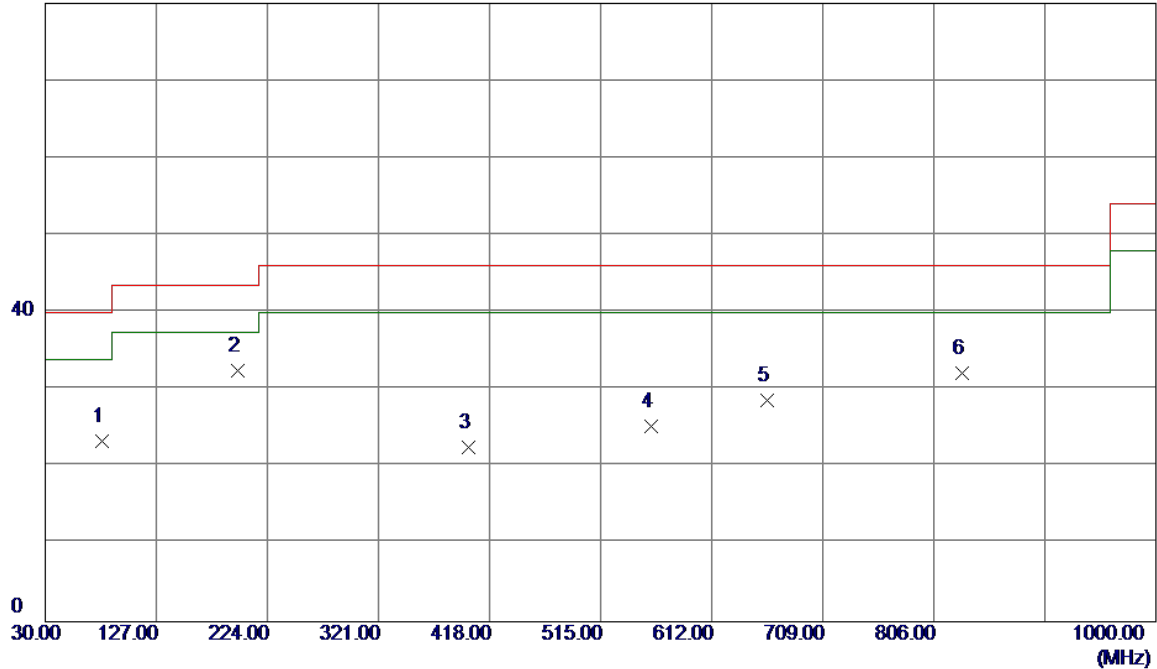


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	86.2600	46.11	-17.41	28.70	40.00	-11.30	Peak	
2	194.9000	46.22	-14.18	32.04	43.50	-11.46	Peak	
3	304.5100	29.50	-10.26	19.24	46.00	-26.76	Peak	
4	437.4000	29.91	-7.94	21.97	46.00	-24.03	Peak	
5	547.9800	29.43	-4.75	24.68	46.00	-21.32	Peak	
6	789.5100	29.81	-0.21	29.60	46.00	-16.40	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps

Horizontal

80 dBuV/m



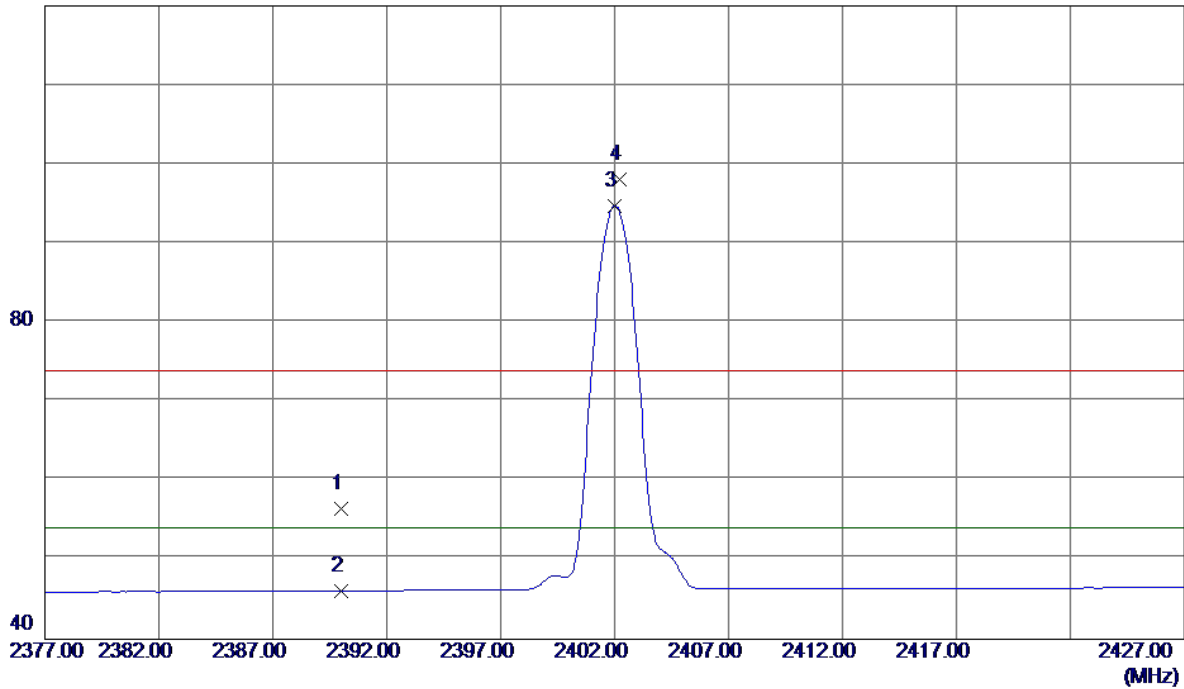
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	79.4700	39.47	-16.10	23.37	40.00	-16.63	Peak	
2 *	197.8100	46.87	-14.32	32.55	43.50	-10.95	Peak	
3	399.5700	30.39	-7.81	22.58	46.00	-23.42	Peak	
4	559.6200	30.32	-5.02	25.30	46.00	-20.70	Peak	
5	660.5000	32.33	-3.74	28.59	46.00	-17.41	Peak	
6	831.2199	32.89	-0.68	32.21	46.00	-13.79	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

120 dBuV/m

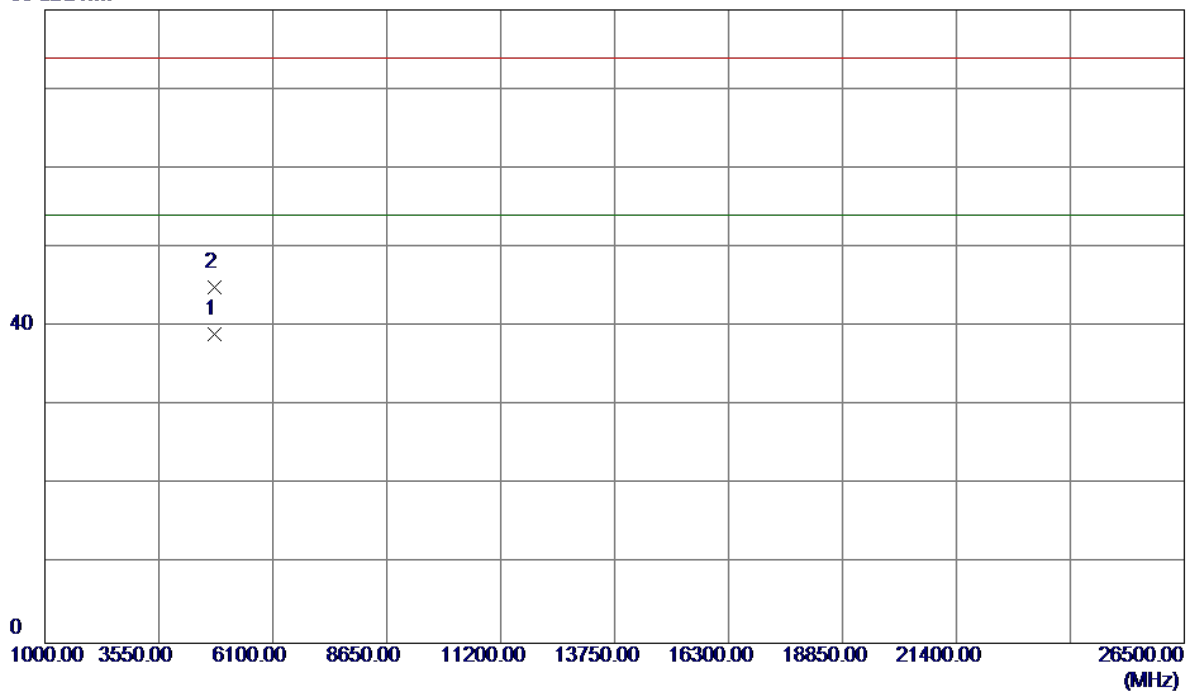


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.50	33.01	56.51	74.00	-17.49	Peak	
2	2390.0000	13.11	33.01	46.12	54.00	-7.88	AVG	
3 *	2402.0000	61.65	33.06	94.71	54.00	40.71	AVG	No Limit
4	2402.2000	65.03	33.06	98.09	74.00	24.09	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

80 dBuV/m

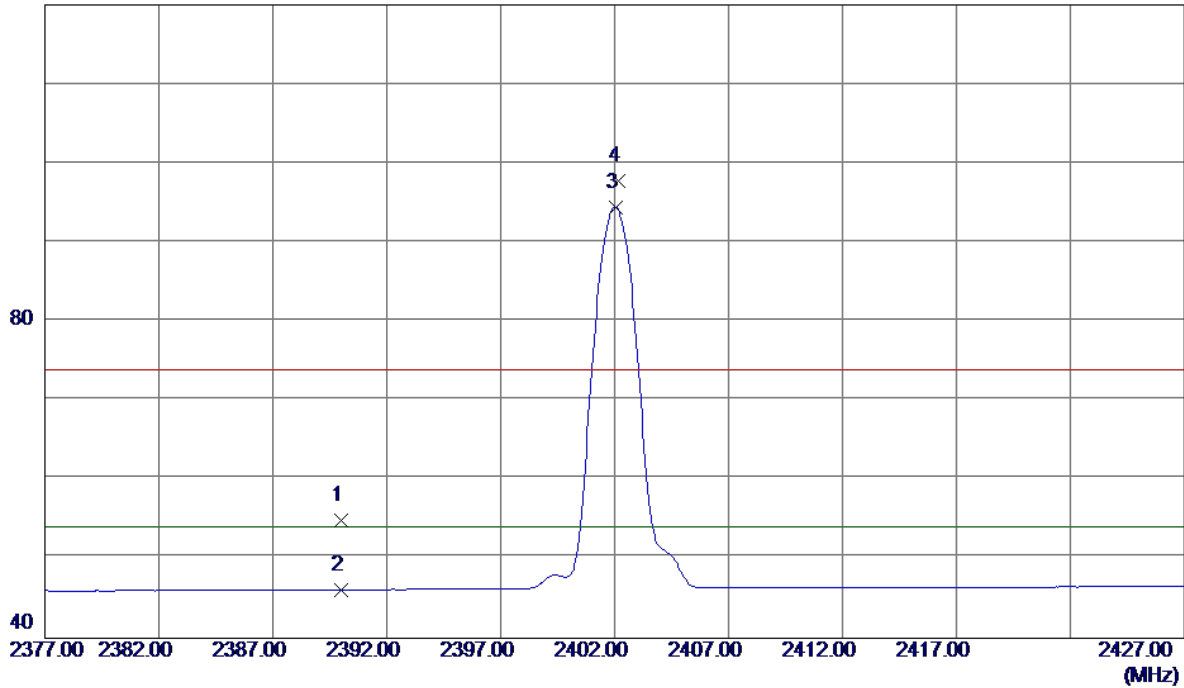


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	4803.9700	34.33	4.77	39.10	54.00	-14.90	AVG	
2	4804.3000	40.18	4.77	44.95	74.00	-29.05	Peak	

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

120 dBuV/m

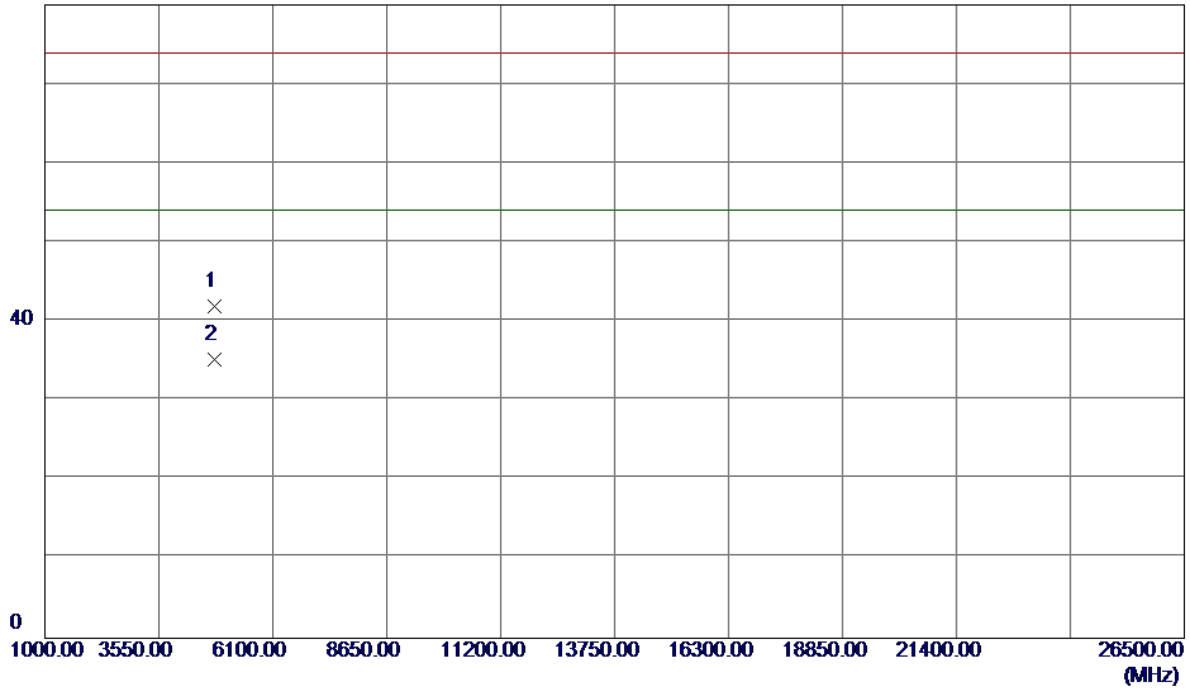


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	21.80	33.01	54.81	74.00	-19.19	Peak	
2	2390.0000	13.11	33.01	46.12	54.00	-7.88	AVG	
3 *	2402.0500	61.39	33.06	94.45	54.00	40.45	AVG	No Limit
4	2402.1500	64.78	33.06	97.84	74.00	23.84	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

80 dBuV/m

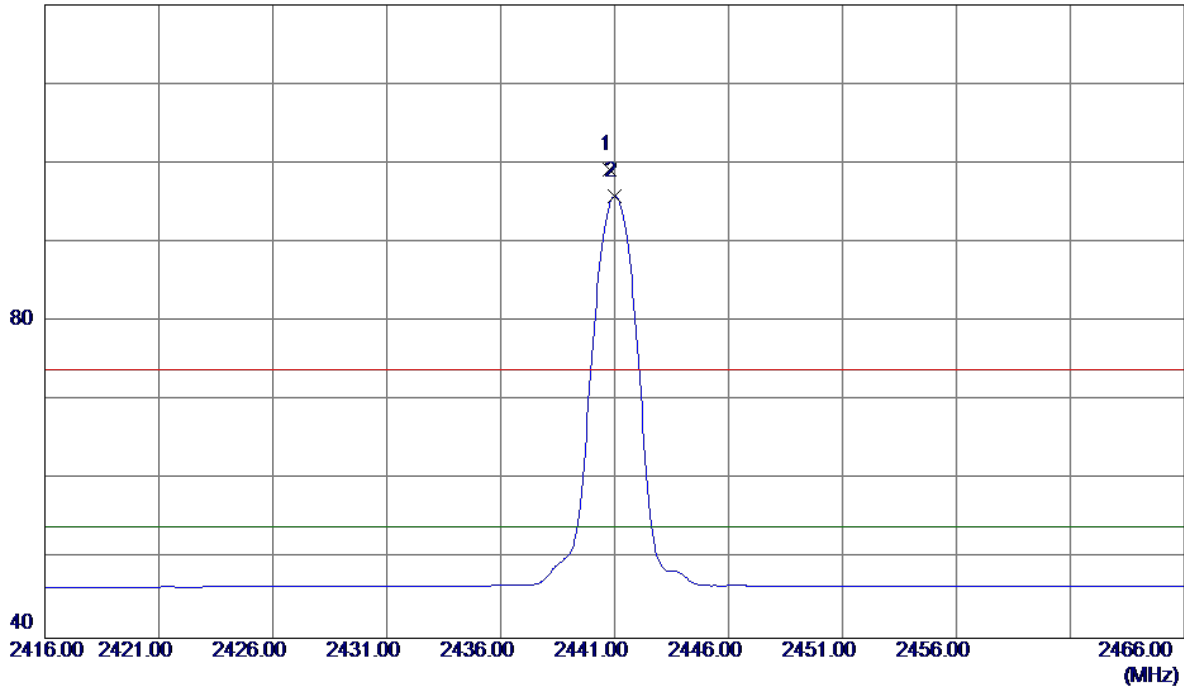


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4803.5150	37.16	4.77	41.93	74.00	-32.07	Peak	
2 *	4803.9850	30.37	4.77	35.14	54.00	-18.86	AVG	

Test Mode : TX 2441MHz _CH39_1Mbps

Vertical

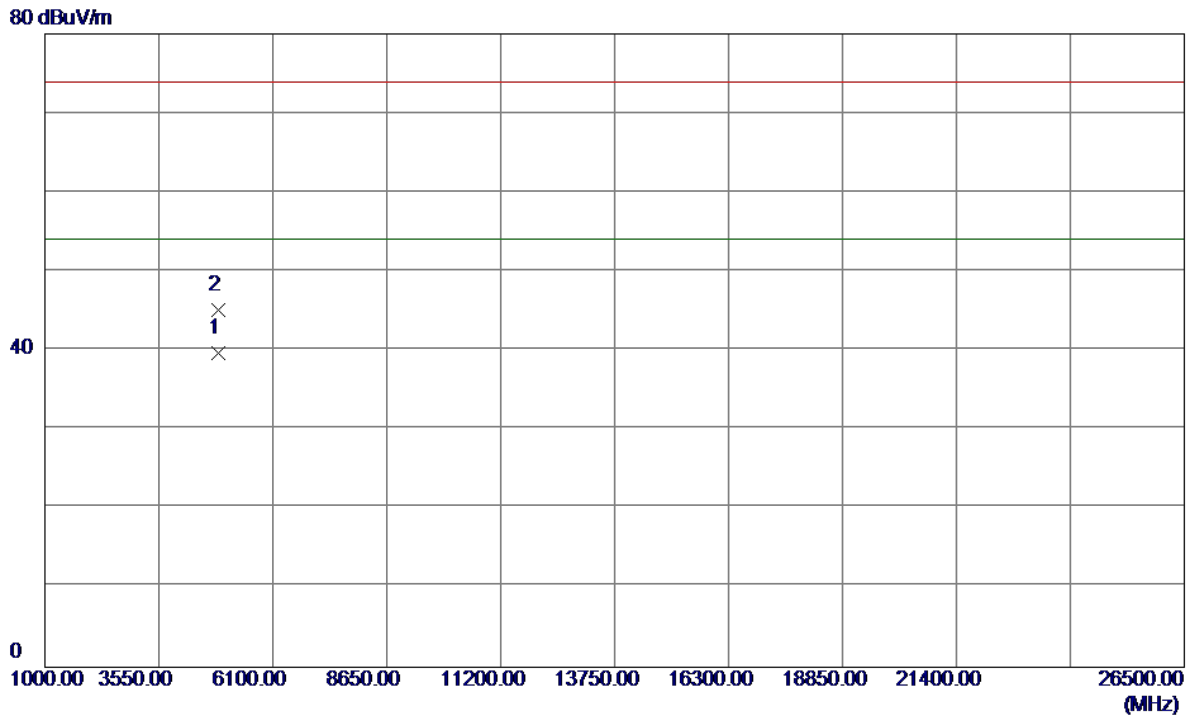
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.8000	65.91	33.22	99.13	74.00	25.13	Peak	No Limit
2 *	2441.0000	62.60	33.22	95.82	54.00	41.82	AVG	No Limit

Test Mode :	TX 2441MHz _CH39_1Mbps
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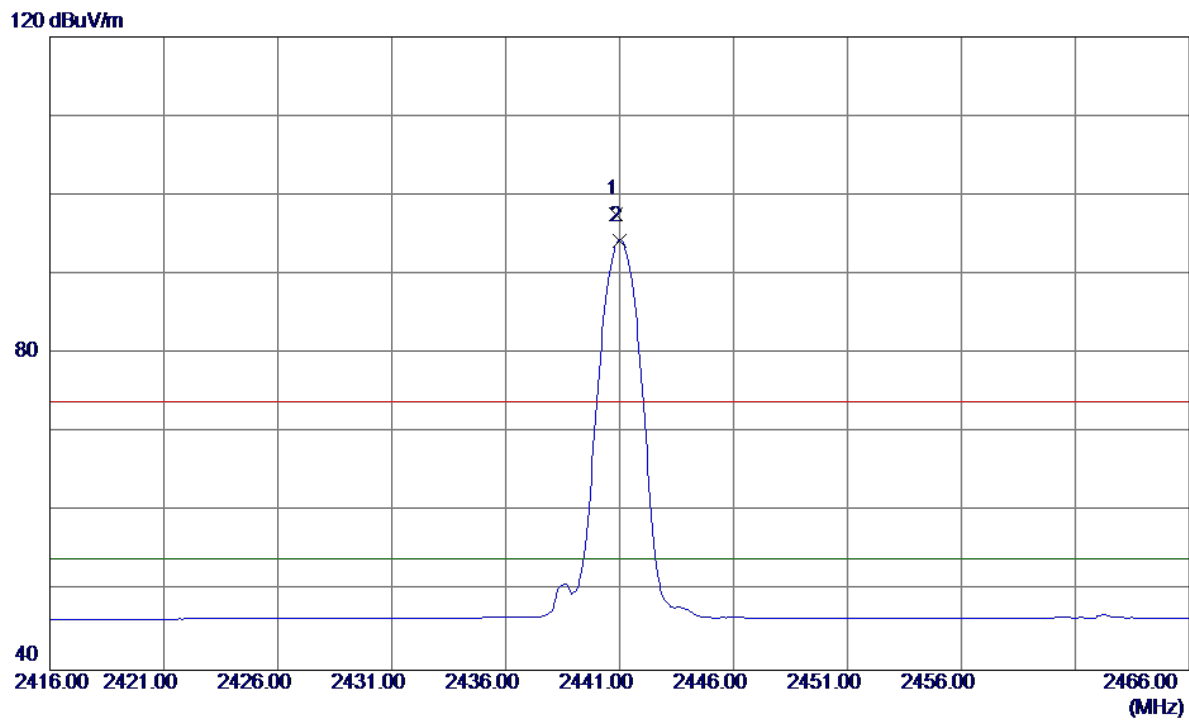
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4880.5450	34.53	5.09	39.62	54.00	-14.38	AVG	
2	4880.6200	40.10	5.09	45.19	74.00	-28.81	Peak	

Test Mode : TX 2441MHz _CH39_1Mbps

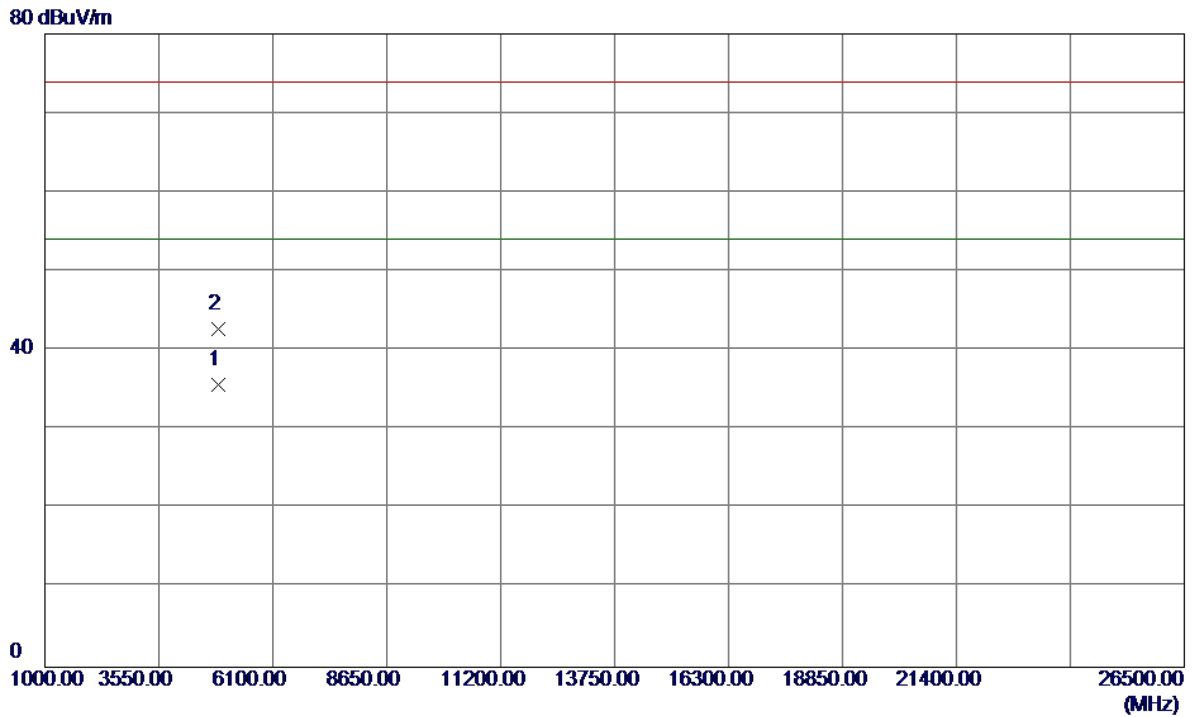
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2440.8500	64.45	33.22	97.67	74.00	23.67	Peak	No Limit
2 *	2441.0000	61.10	33.22	94.32	54.00	40.32	AVG	No Limit

Test Mode :	TX 2441MHz _CH39_1Mbps
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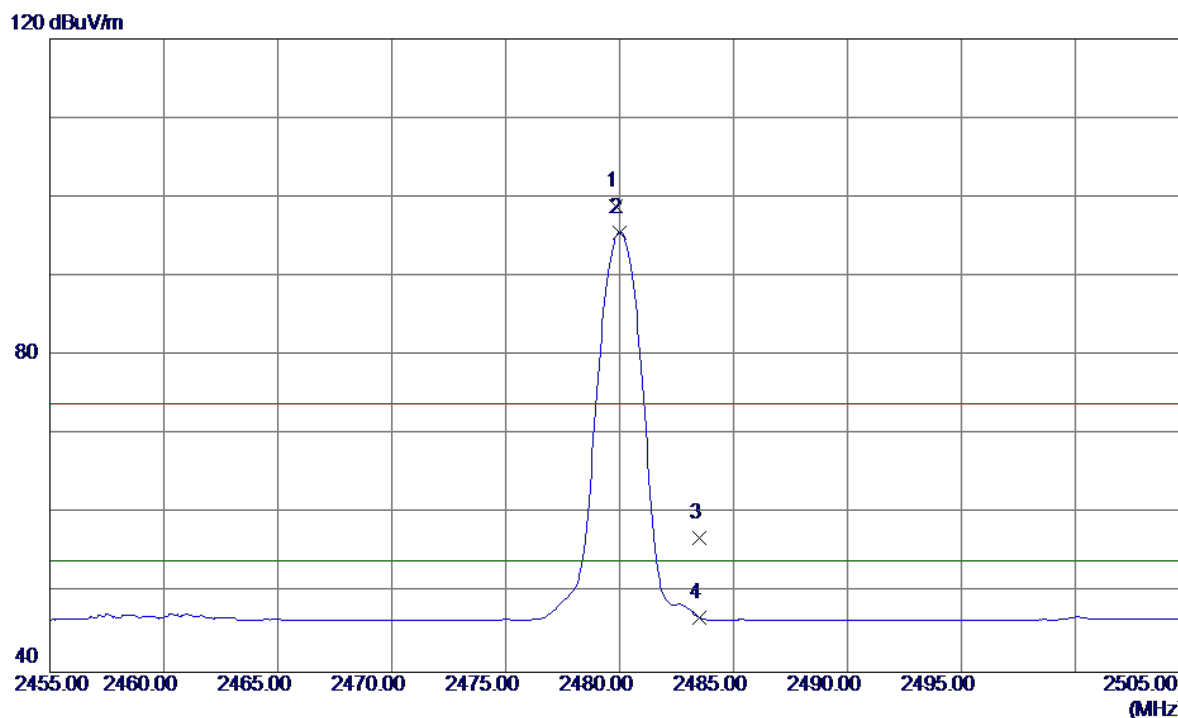
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4880.7450	30.57	5.09	35.66	54.00	-18.34	AVG	
2	4884.3750	37.68	5.11	42.79	74.00	-31.21	Peak	

Test Mode : TX 2480MHz _CH78_1Mbps

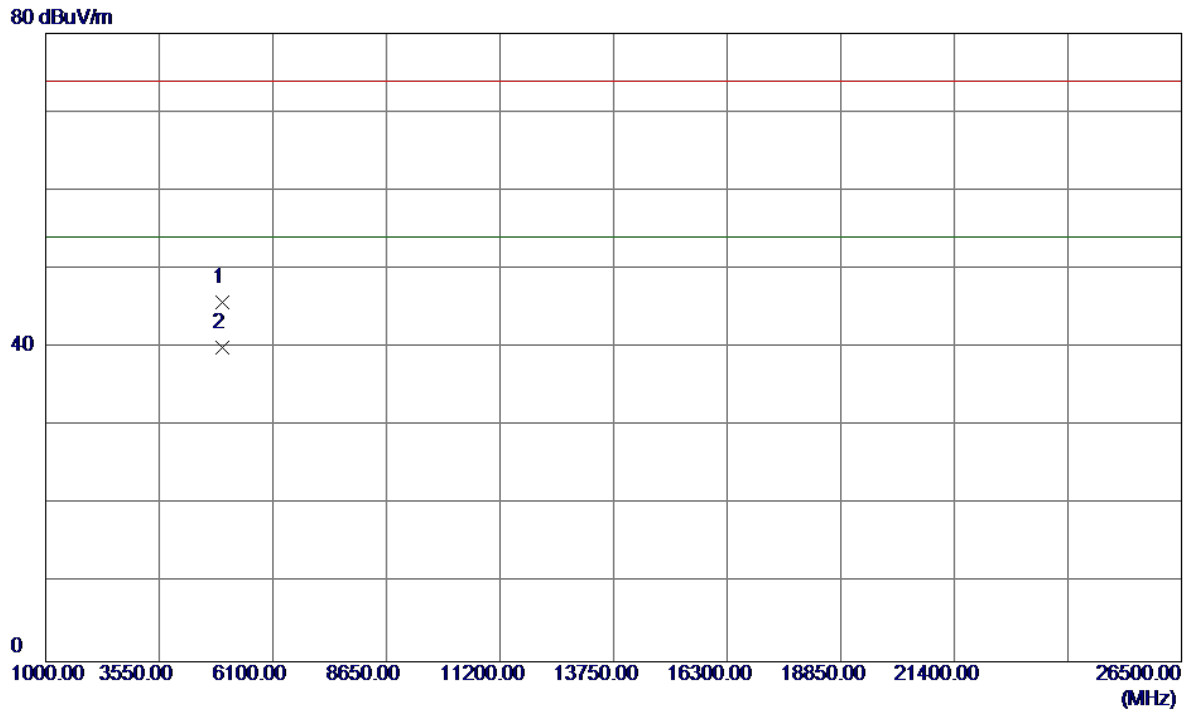
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	65.51	33.39	98.90	74.00	24.90	Peak	No Limit
2 *	2480.0000	62.20	33.39	95.59	54.00	41.59	AVG	No Limit
3	2483.5000	23.56	33.40	56.96	74.00	-17.04	Peak	
4	2483.5000	13.49	33.40	46.89	54.00	-7.11	AVG	

Test Mode :	TX 2480MHz _CH78_1Mbps
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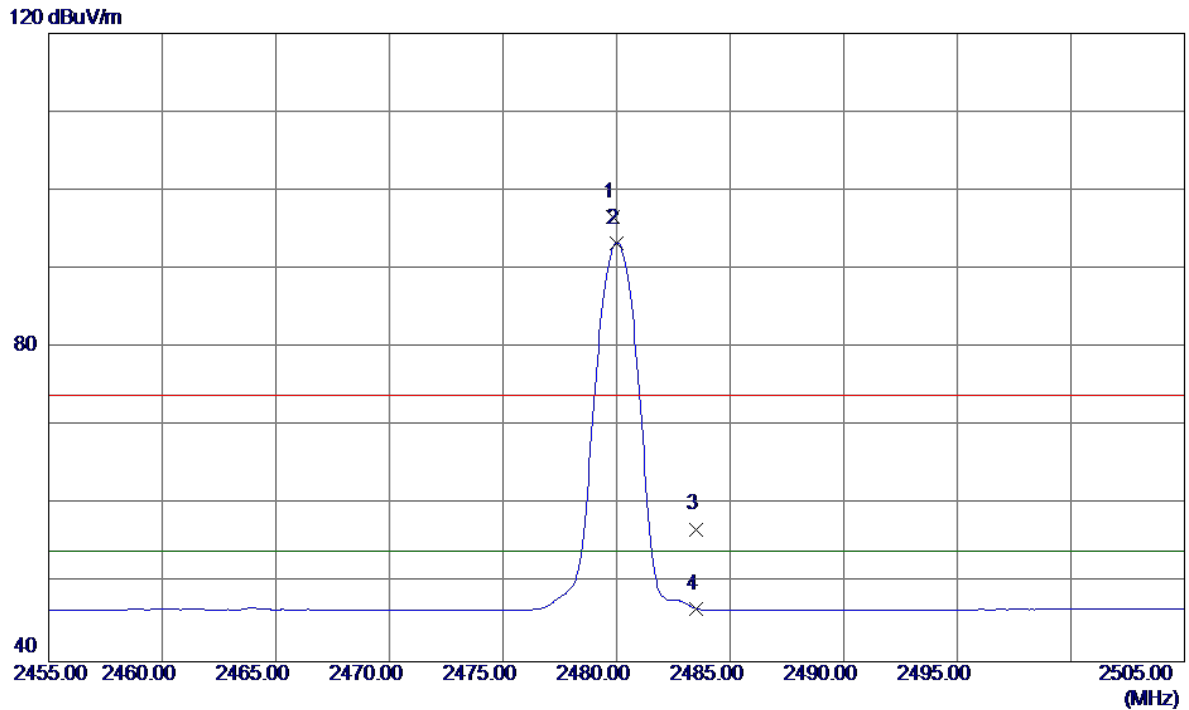
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4960.3450	40.26	5.43	45.69	74.00	-28.31	Peak	
2 *	4960.4450	34.53	5.43	39.96	54.00	-14.04	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

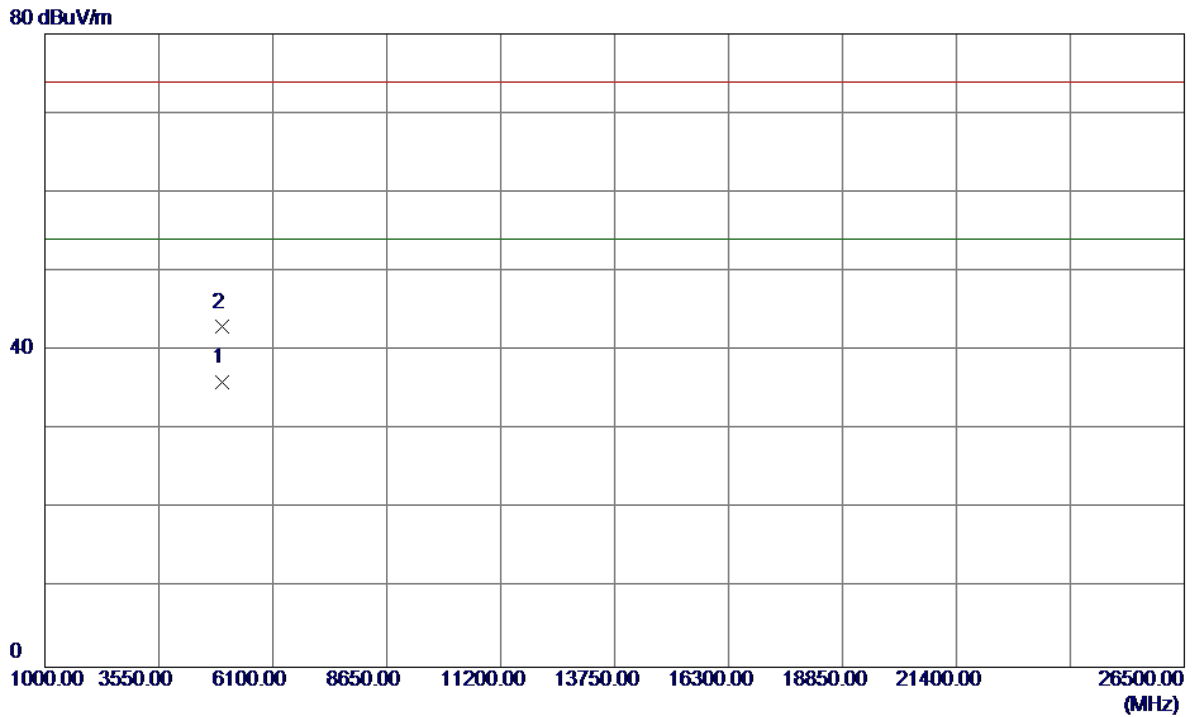
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	63.24	33.39	96.63	74.00	22.63	Peak	No Limit
2 *	2480.0000	59.92	33.39	93.31	54.00	39.31	AVG	No Limit
3	2483.5000	23.48	33.40	56.88	74.00	-17.12	Peak	
4	2483.5000	13.35	33.40	46.75	54.00	-7.25	AVG	

Test Mode :	TX 2480MHz _CH78_1Mbps
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Horizontal

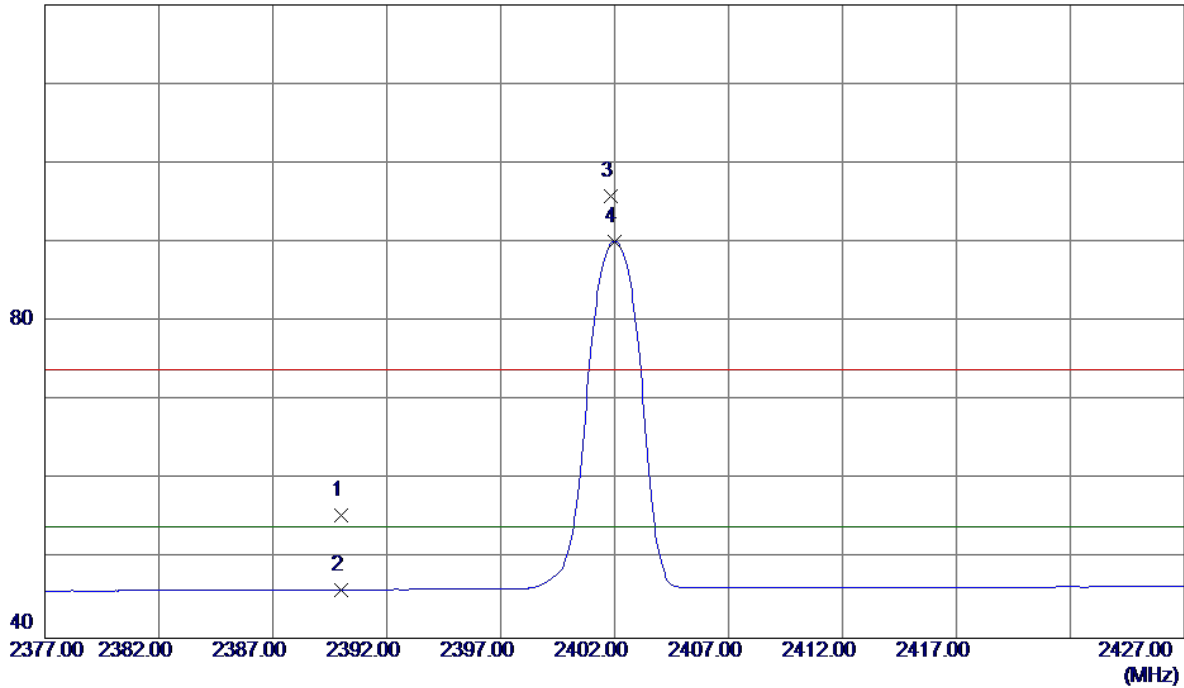


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4960.1250	30.53	5.43	35.96	54.00	-18.04	AVG	
2	4960.4400	37.53	5.43	42.96	74.00	-31.04	Peak	

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

120 dBuV/m

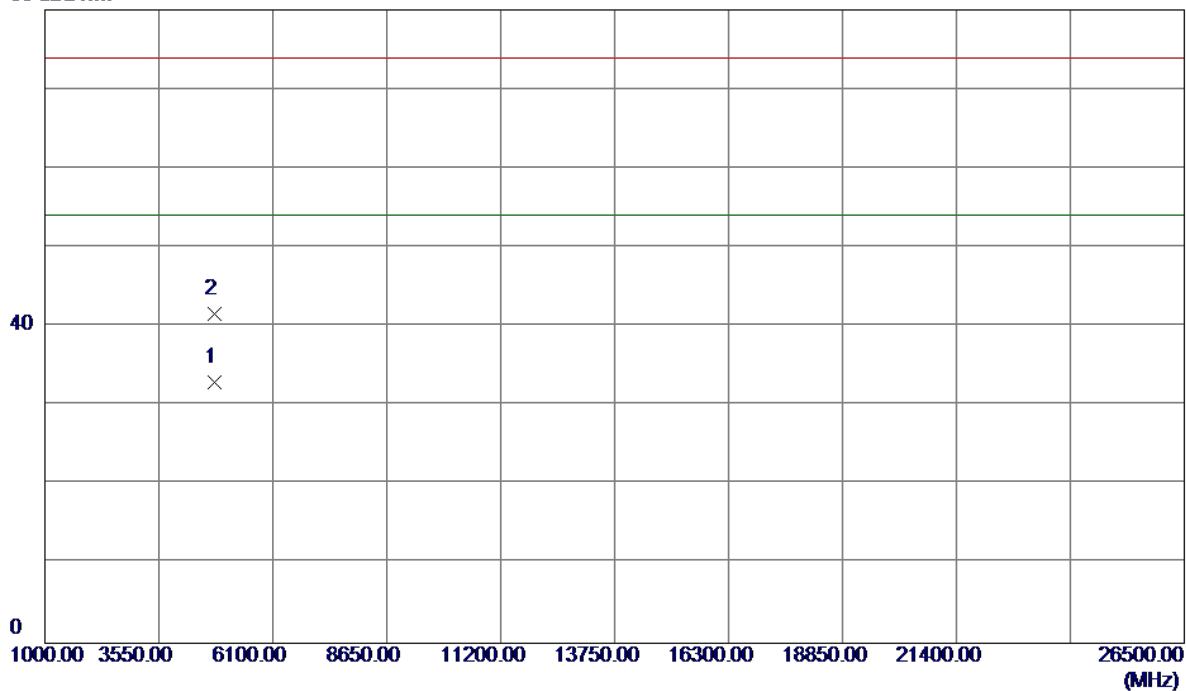


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.46	33.01	55.47	74.00	-18.53	Peak	
2	2390.0000	13.10	33.01	46.11	54.00	-7.89	AVG	
3	2401.8500	62.77	33.06	95.83	74.00	21.83	Peak	No Limit
4 *	2402.0000	57.09	33.06	90.15	54.00	36.15	AVG	No Limit

Test Mode :	TX 2402MHz _CH00_3Mbps
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Vertical

80 dBuV/m

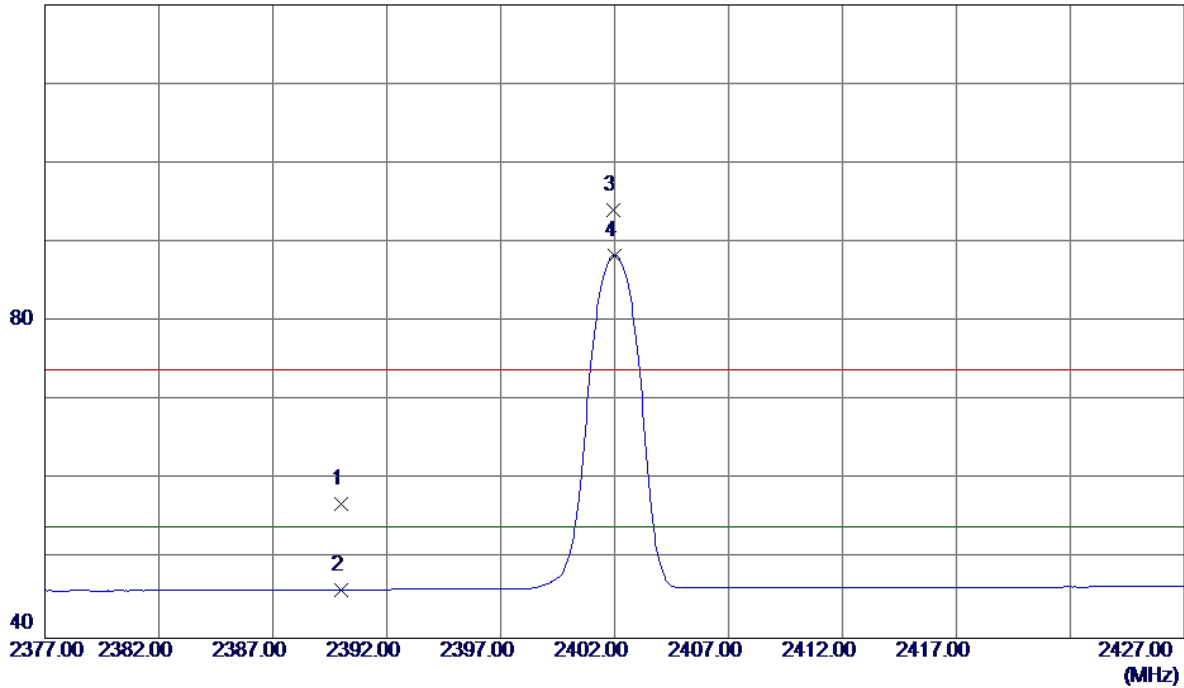


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4804.0600	28.12	4.77	32.89	54.00	-21.11	AVG	
2	4803.9200	36.80	4.77	41.57	74.00	-32.43	Peak	

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

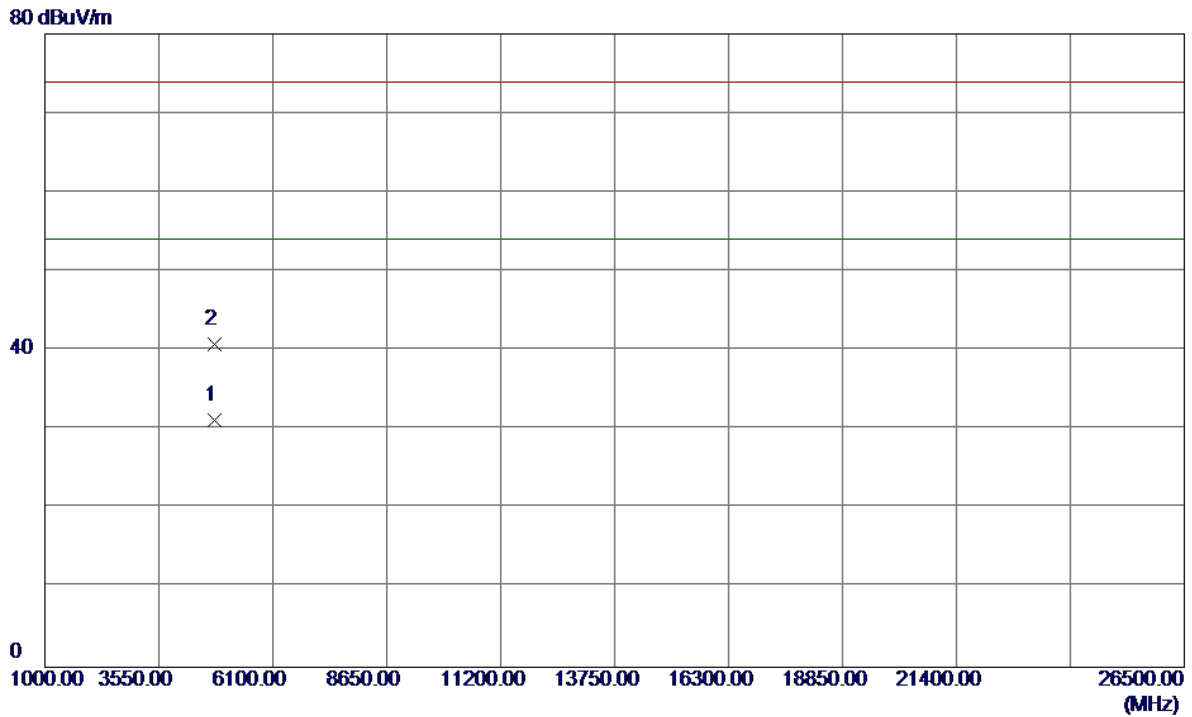
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.97	33.01	56.98	74.00	-17.02	Peak	
2	2390.0000	13.11	33.01	46.12	54.00	-7.88	AVG	
3	2401.9500	60.99	33.06	94.05	74.00	20.05	Peak	No Limit
4 *	2402.0000	55.32	33.06	88.38	54.00	34.38	AVG	No Limit

Test Mode :	TX 2402MHz _CH00_3Mbps
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Horizontal

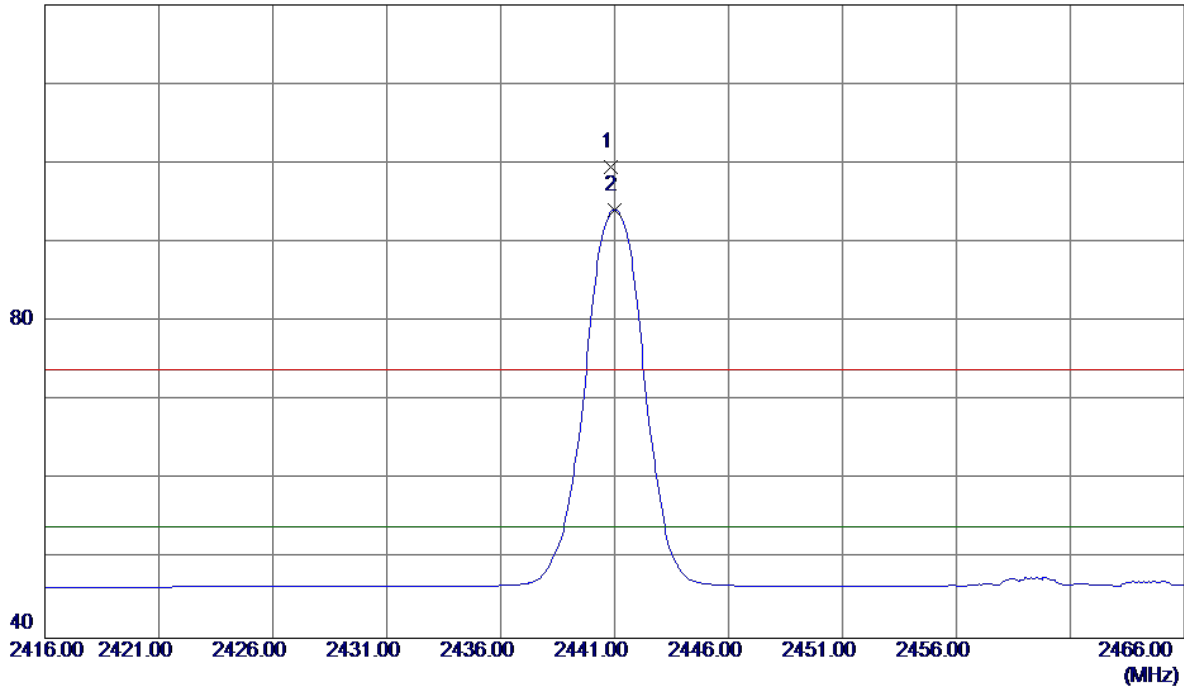


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4803.9400	26.42	4.77	31.19	54.00	-22.81	AVG	
2	4804.1150	36.01	4.77	40.78	74.00	-33.22	Peak	

Test Mode : TX 2441MHz _CH39_3Mbps

Vertical

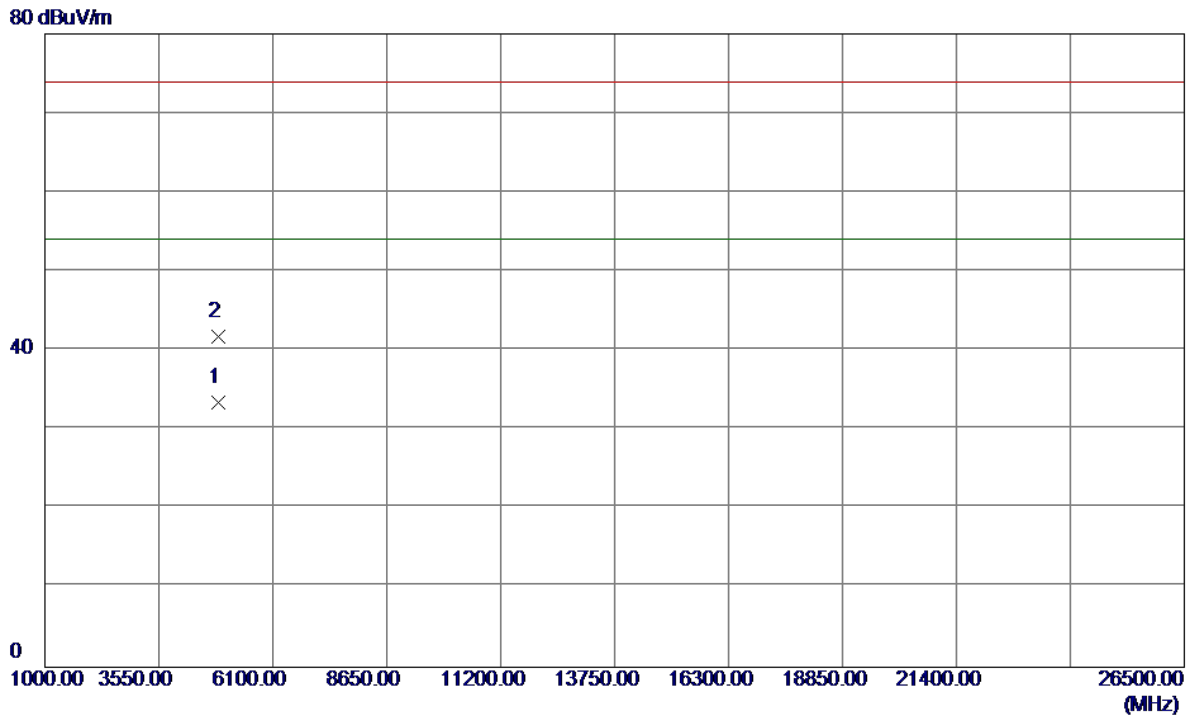
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.8500	66.29	33.22	99.51	74.00	25.51	Peak	No Limit
2 *	2441.0000	60.93	33.22	94.15	54.00	40.15	AVG	No Limit

Test Mode :	TX 2441MHz _CH39_3Mbps
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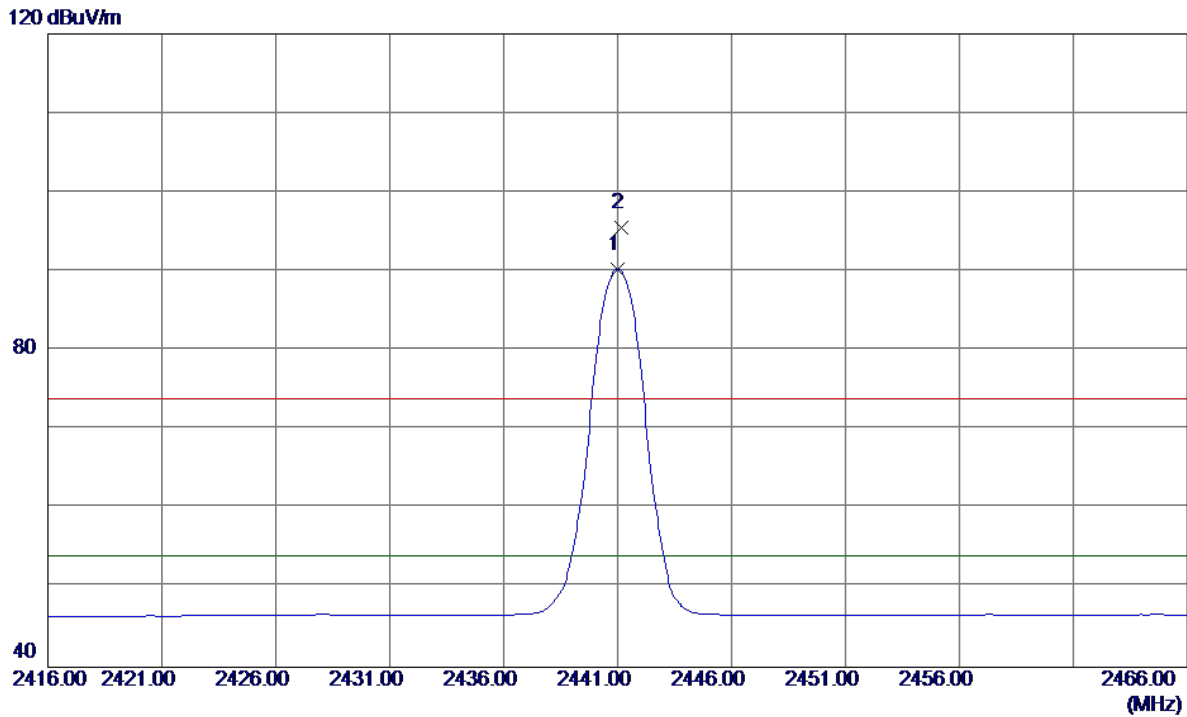
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4881.6750	28.39	5.10	33.49	54.00	-20.51	AVG	
2	4881.8050	36.61	5.10	41.71	74.00	-32.29	Peak	

Test Mode : TX 2441MHz _CH39_3Mbps

Horizontal

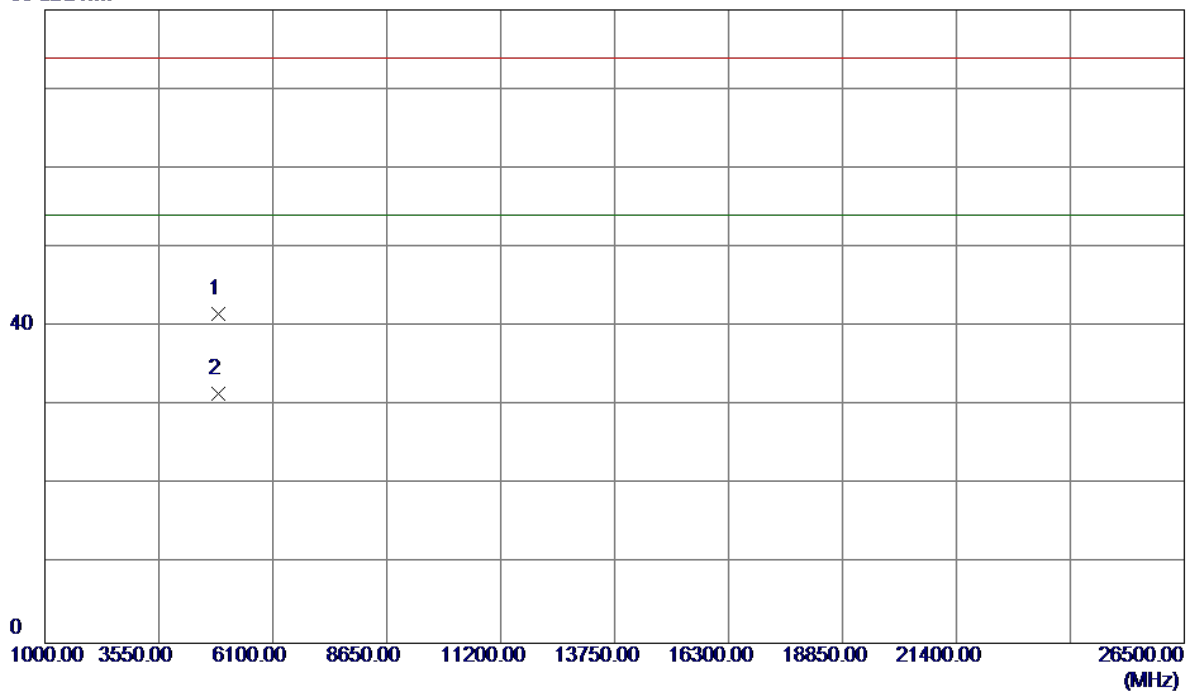


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2441.0000	57.08	33.22	90.30	54.00	36.30	AVG	No Limit
2	2441.1500	62.30	33.22	95.52	74.00	21.52	Peak	No Limit

Test Mode :	TX 2441MHz _CH39_3Mbps
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Horizontal

80 dBuV/m

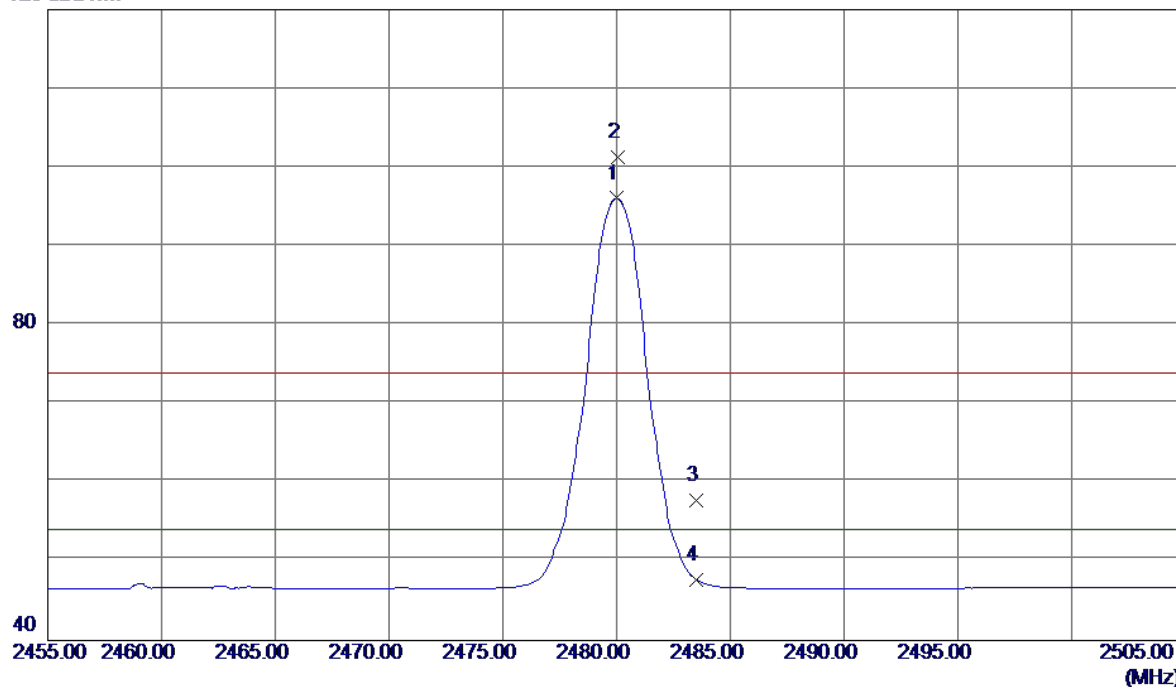


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4881.7850	36.43	5.10	41.53	74.00	-32.47	Peak	
2 *	4881.8550	26.41	5.10	31.51	54.00	-22.49	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

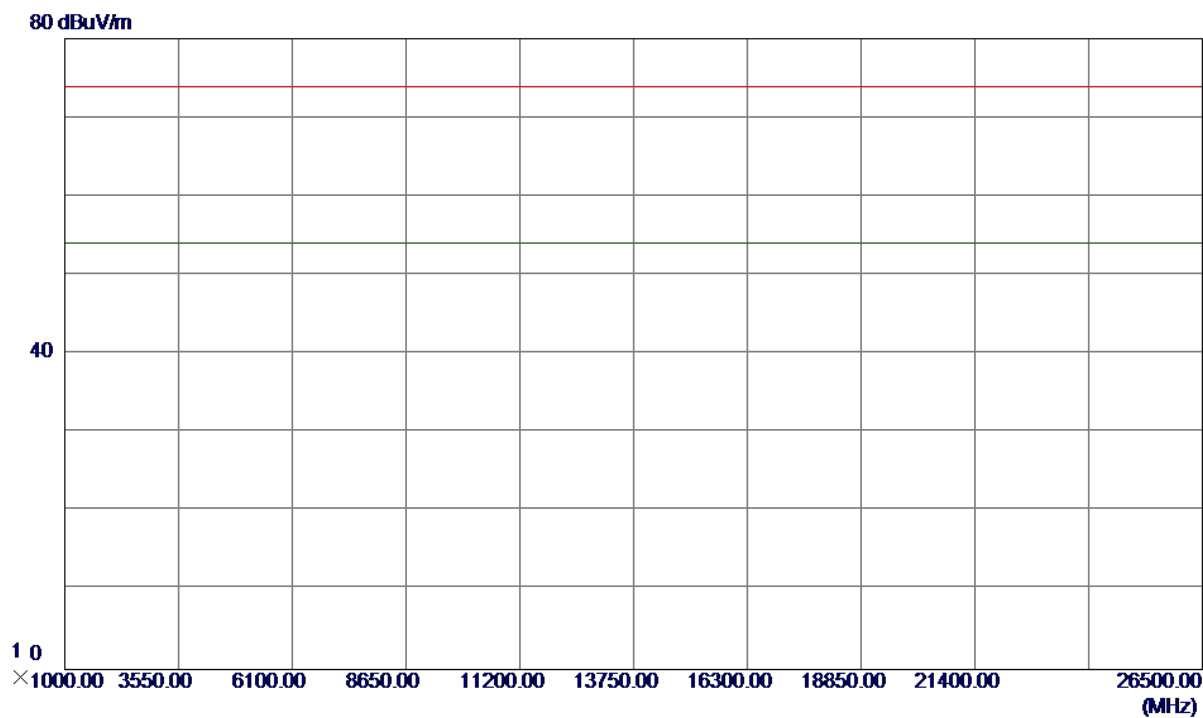
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0000	62.69	33.39	96.08	54.00	42.08	AVG	No Limit
2	2480.0500	67.94	33.39	101.33	74.00	27.33	Peak	No Limit
3	2483.5000	24.32	33.40	57.72	74.00	-16.28	Peak	
4	2483.5000	14.34	33.40	47.74	54.00	-6.26	AVG	

Test Mode :	TX 2480MHz _CH78_3Mbps
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Vertical

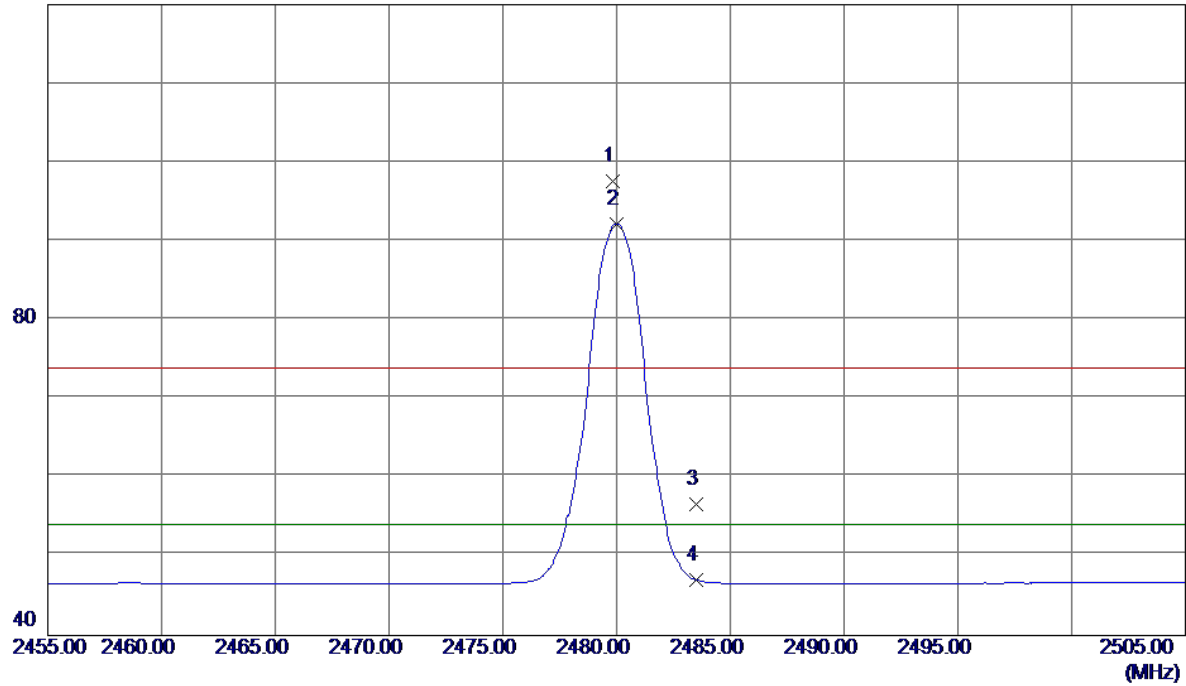


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	dBuV/m	Factor	ment	dBuV/m	dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

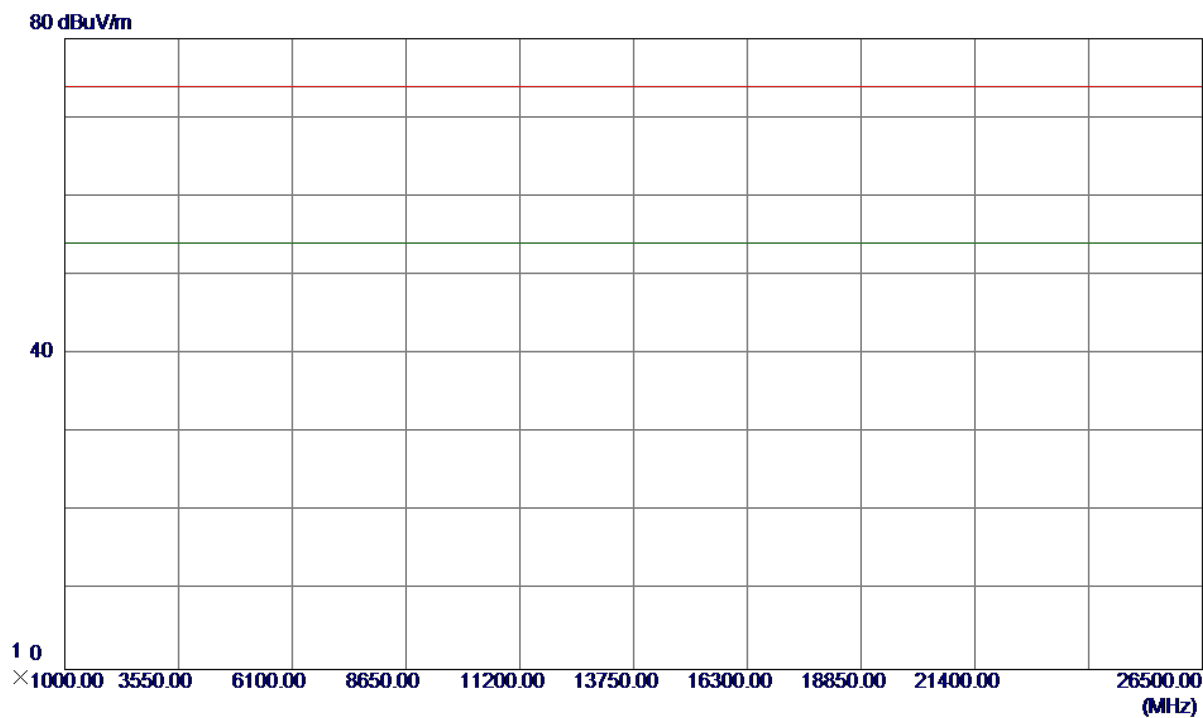
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	64.14	33.39	97.53	74.00	23.53	Peak	No Limit
2 *	2480.0000	58.80	33.39	92.19	54.00	38.19	AVG	No Limit
3	2483.5000	23.23	33.40	56.63	74.00	-17.37	Peak	
4	2483.5000	13.65	33.40	47.05	54.00	-6.95	AVG	

Test Mode :	TX 2480MHz _CH78_3Mbps
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Horizontal



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

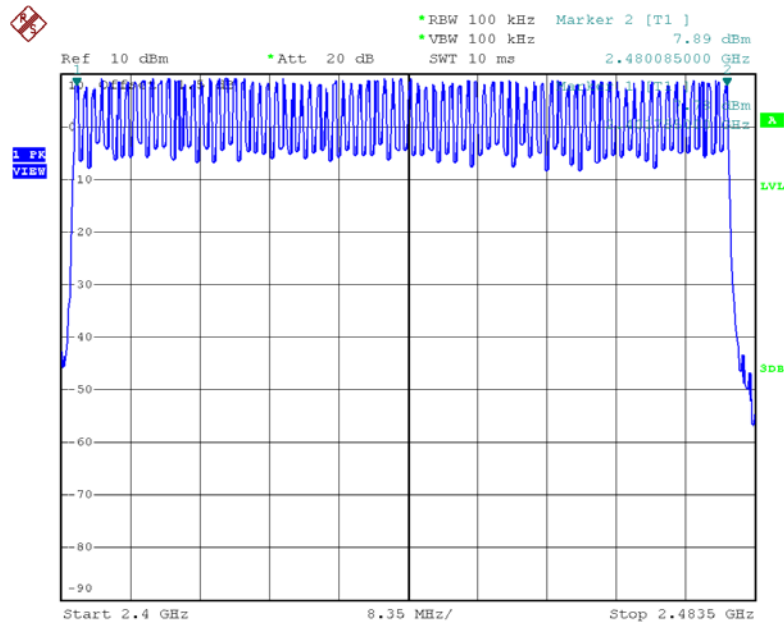
ATTACHMENT E - NUMBER OF HOPPING CHANNEL

Test Mode

Hopping Mode_1Mbps

Number of Hopping Channel

79



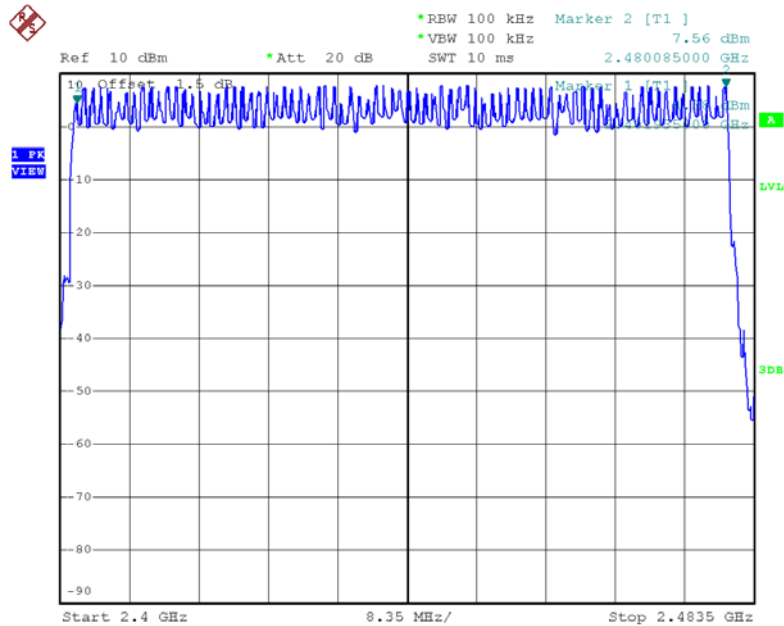
Date: 11.JAN.2017 18:30:52

Test Mode

Hopping Mode_3Mbps

Number of Hopping Channel

79



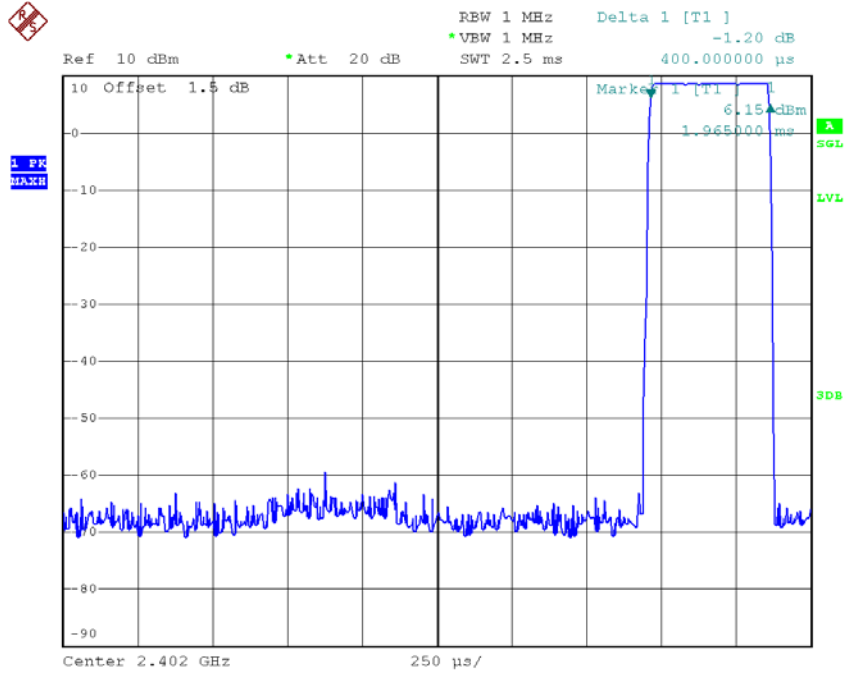
Date: 11.JAN.2017 18:56:23

ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

Test Mode :	TX Mode_1Mbps
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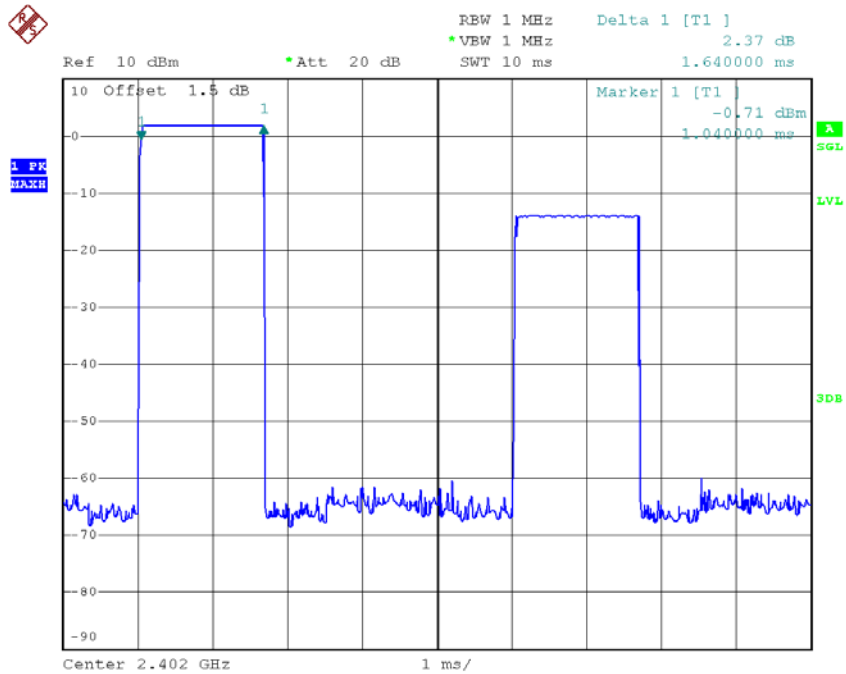
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.9200	0.3115	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.4000	0.1280	0.4000	Pass
DH5	2441	2.9200	0.3115	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3950	0.1264	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6600	0.2656	0.4000	Pass
DH1	2480	0.4000	0.1280	0.4000	Pass

CH00-DH1



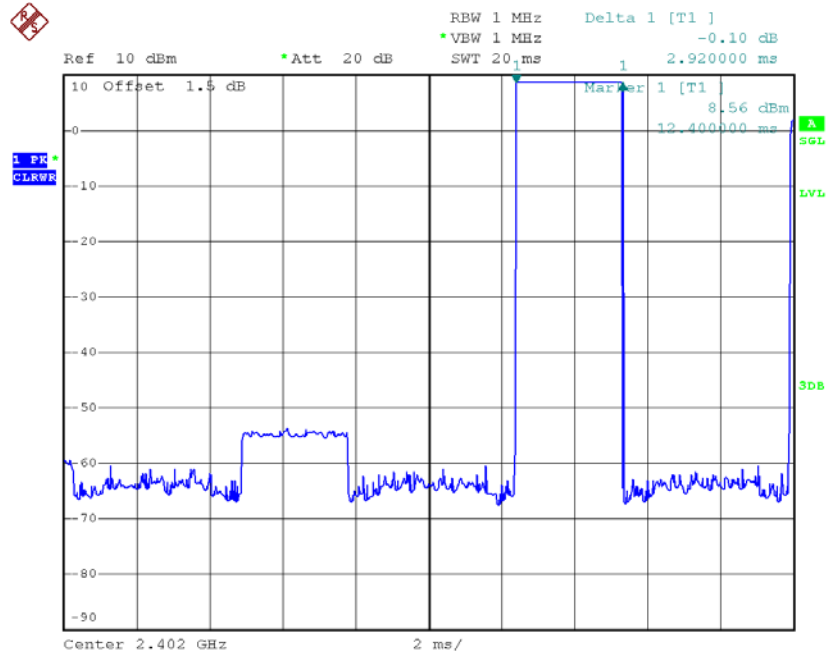
Date: 11.JAN.2017 18:23:10

CH00-DH3



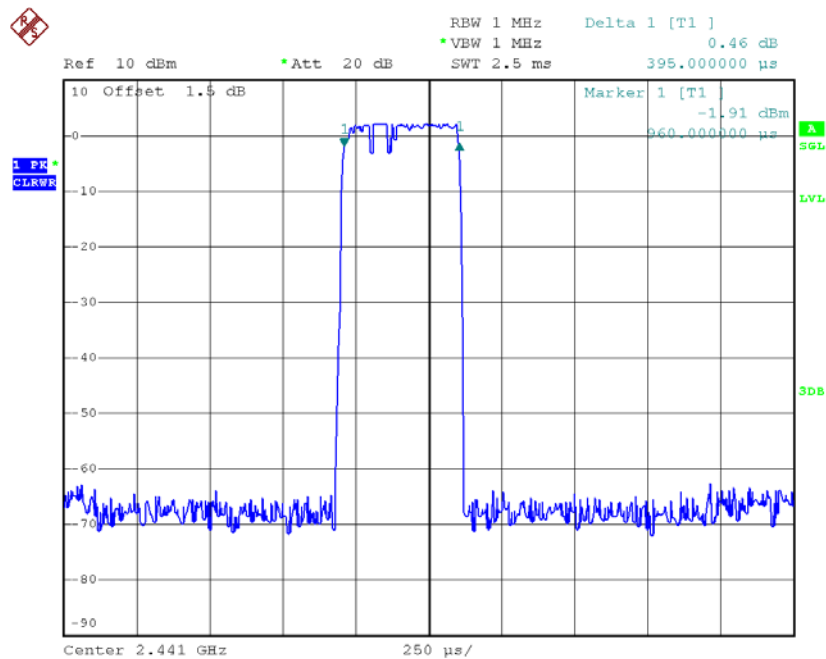
Date: 11.JAN.2017 18:33:42

CH00-DH5



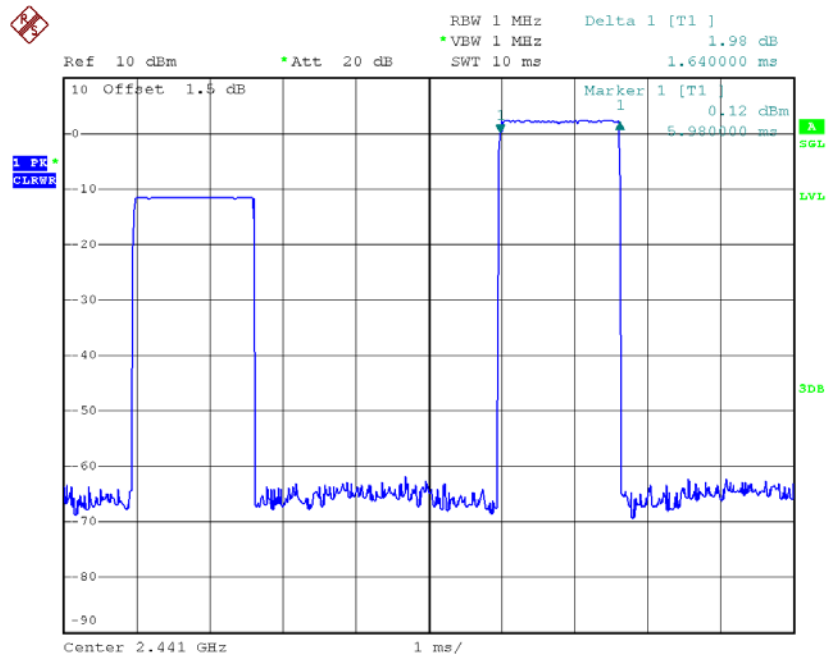
Date: 11.JAN.2017 18:34:28

CH39-DH1



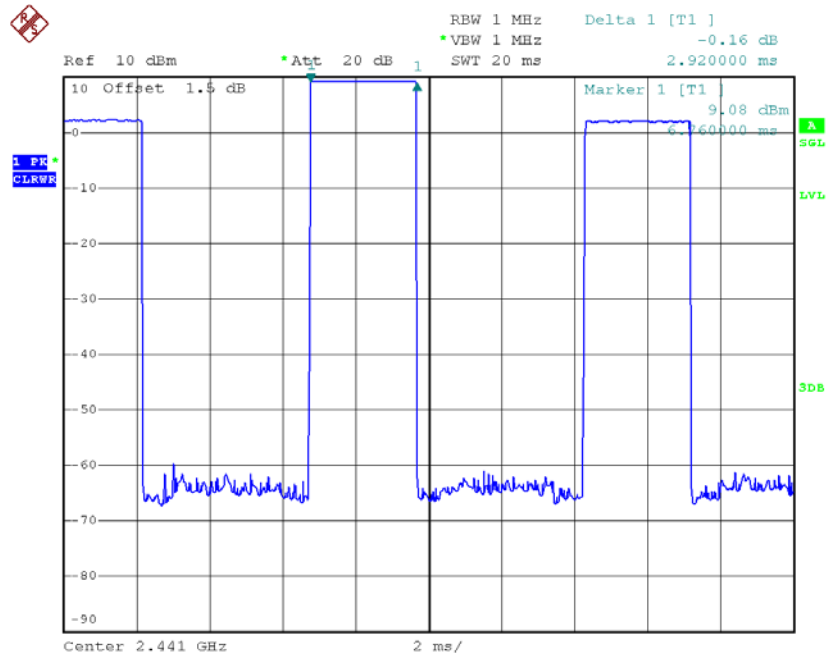
Date: 11.JAN.2017 18:23:16

CH39-DH3



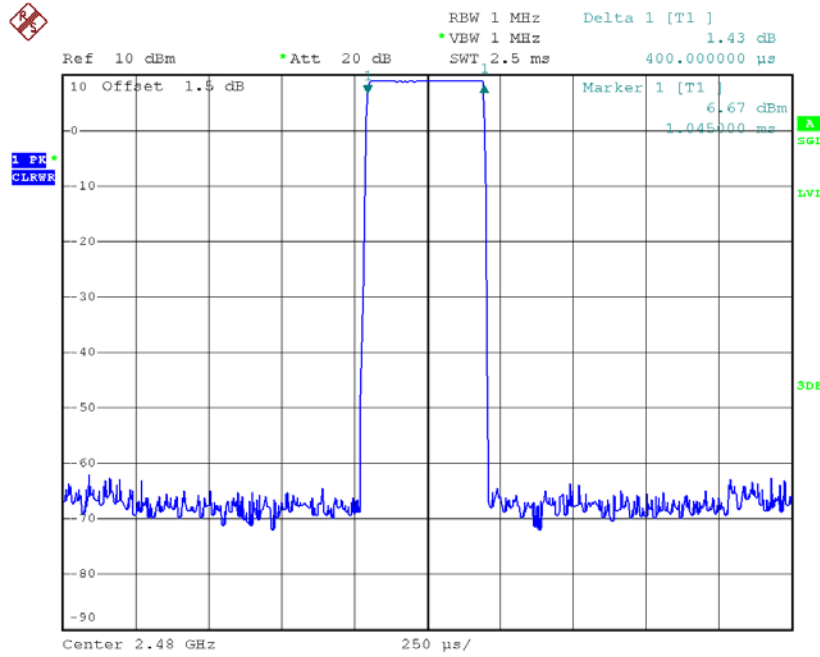
Date: 11.JAN.2017 18:33:48

CH39-DH5



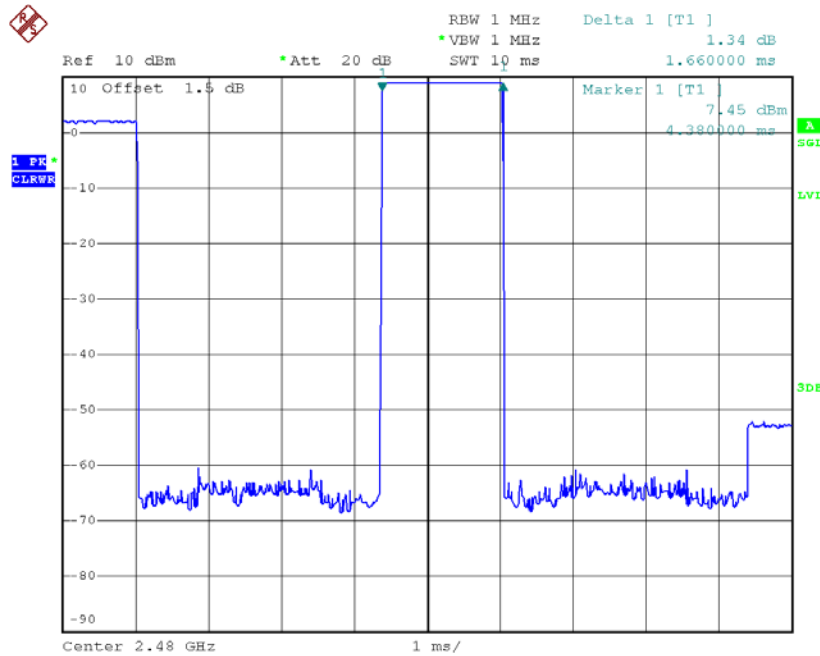
Date: 11.JAN.2017 18:34:33

CH78-DH1



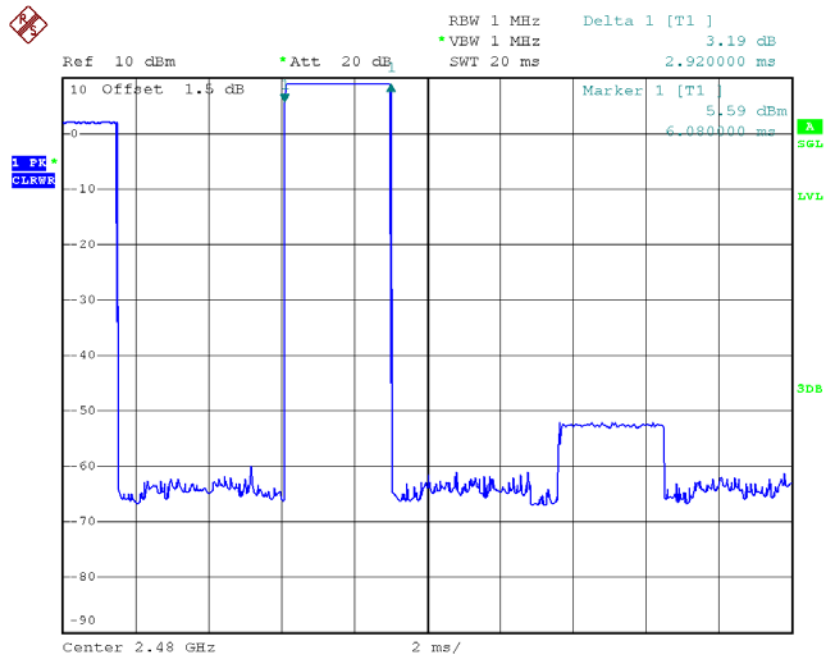
Date: 11.JAN.2017 18:23:21

CH78-DH3



Date: 11.JAN.2017 18:33:53

CH78-DH5

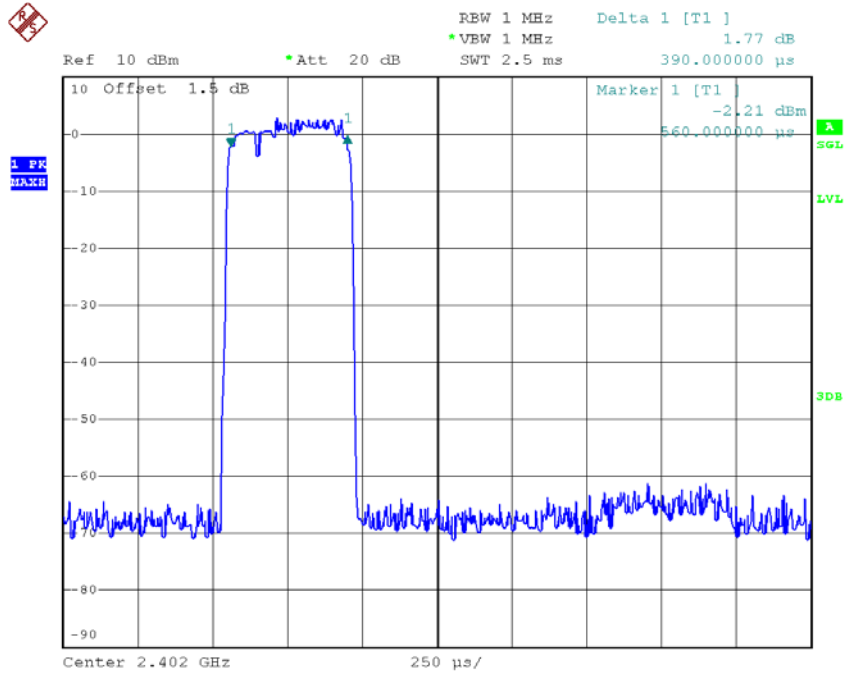


Date: 11.JAN.2017 18:34:40

Test Mode :	TX Mode_3Mbps
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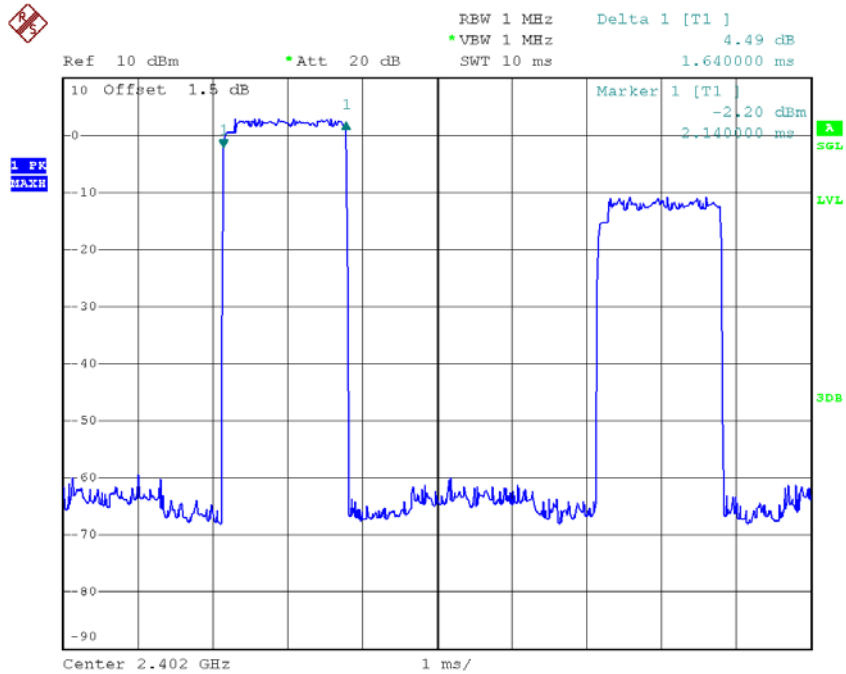
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.9200	0.3115	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3900	0.1248	0.4000	Pass
DH5	2441	2.9200	0.3115	0.4000	Pass
DH3	2441	1.6800	0.2688	0.4000	Pass
DH1	2441	0.4000	0.1280	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.4000	0.1280	0.4000	Pass

CH00-DH1



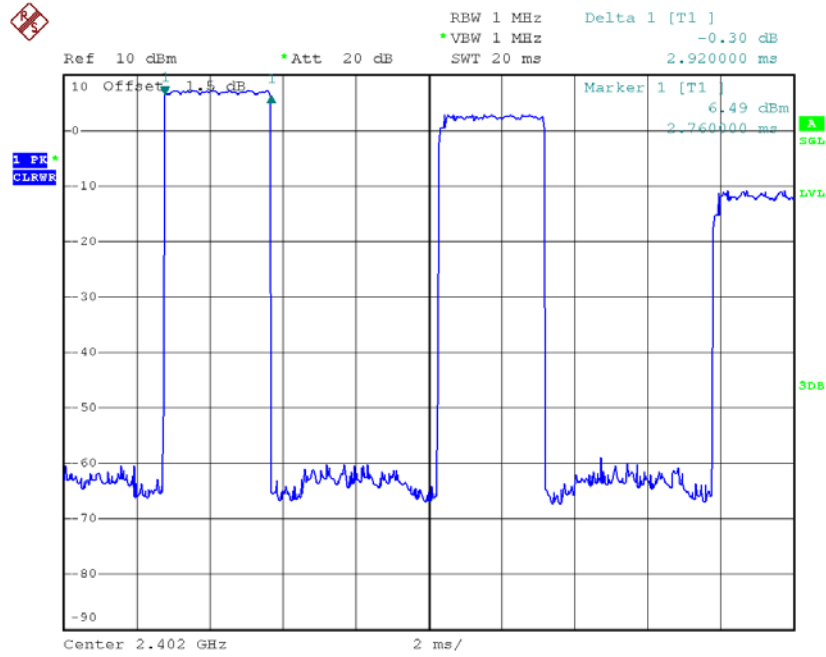
Date: 11.JAN.2017 18:51:09

CH00-DH3



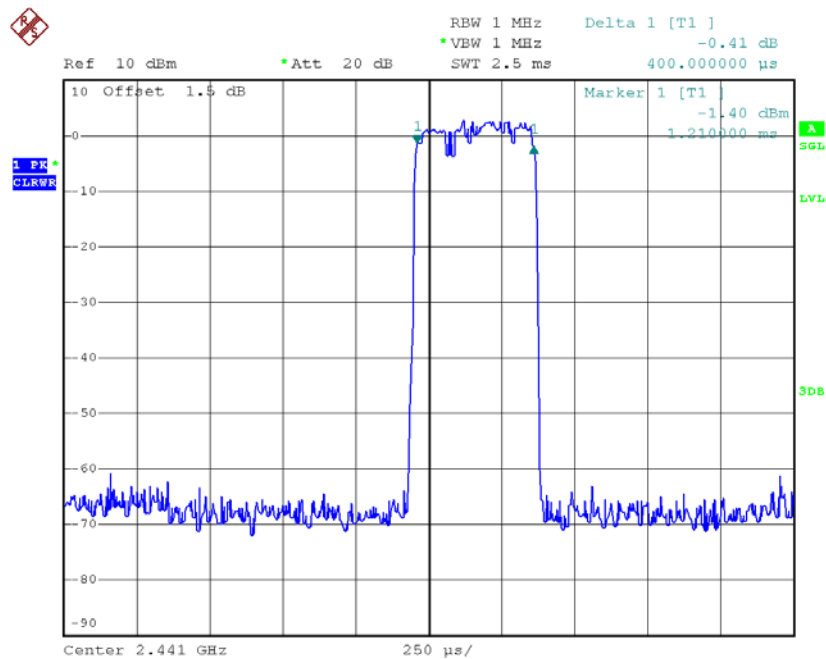
Date: 11.JAN.2017 18:58:22

CH00-DH5



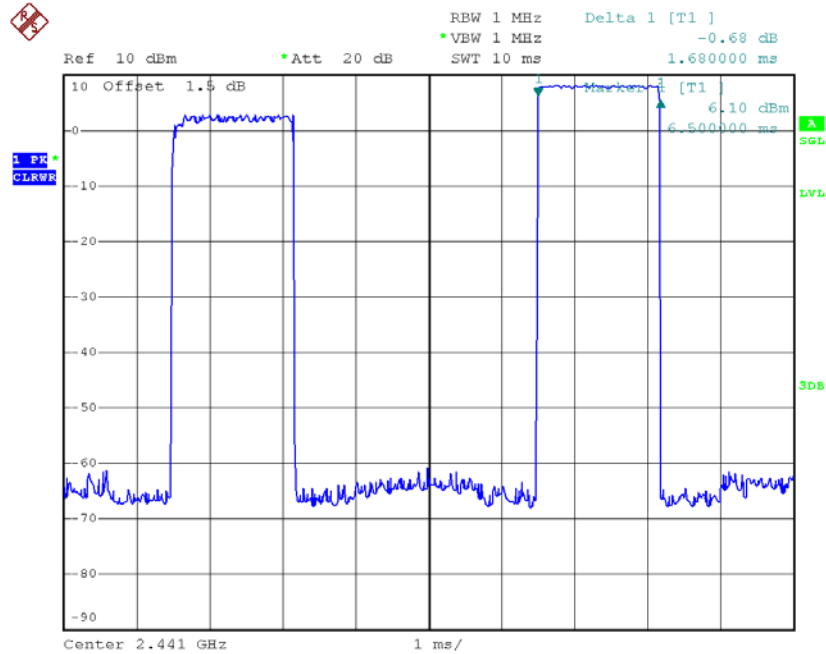
Date: 11.JAN.2017 18:59:22

CH39-DH1



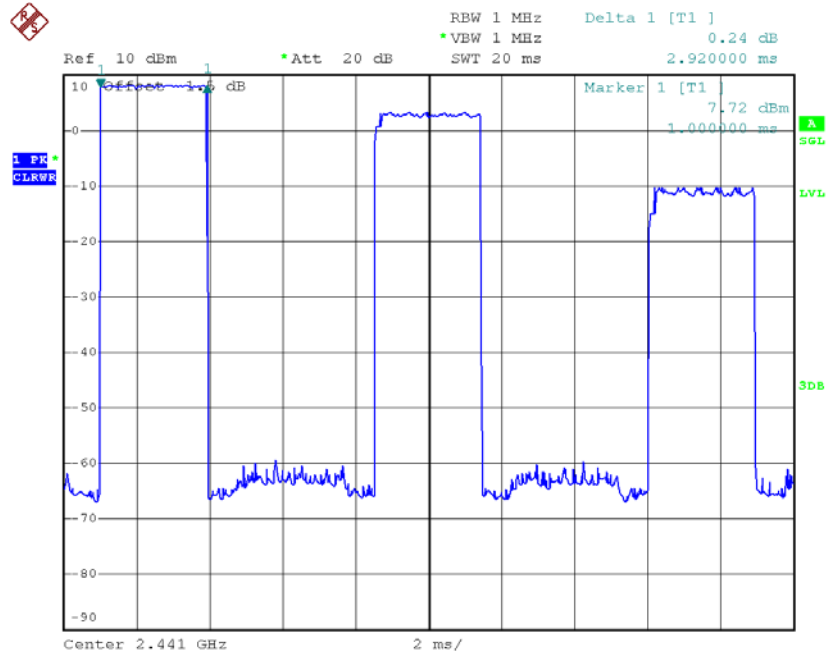
Date: 11.JAN.2017 18:51:14

CH39-DH3



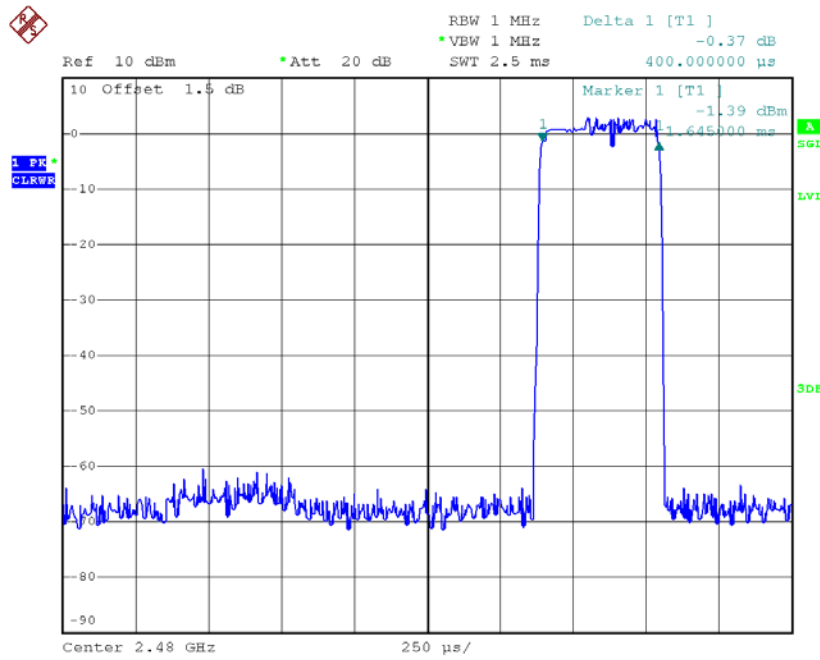
Date: 11.JAN.2017 18:58:28

CH39-DH5



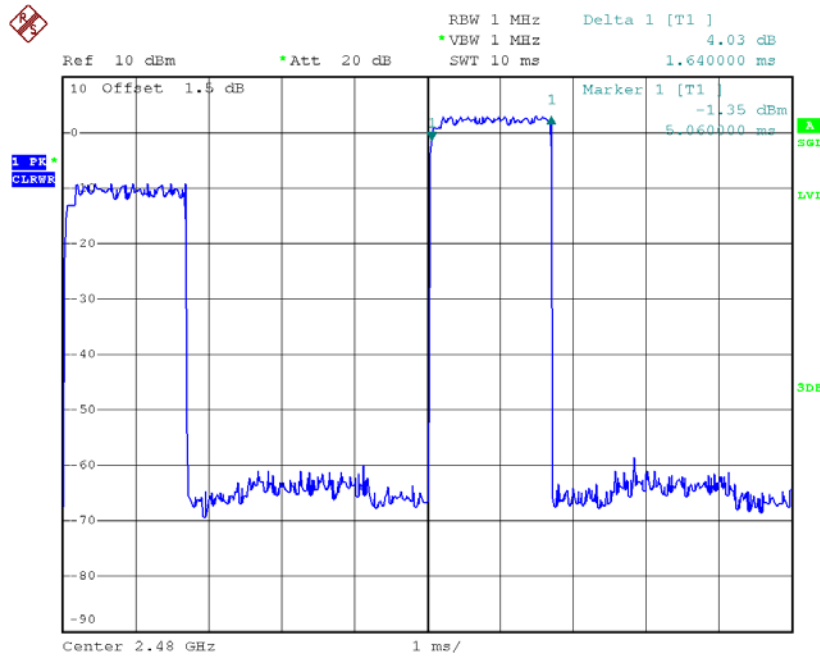
Date: 11.JAN.2017 18:59:27

CH78-DH1



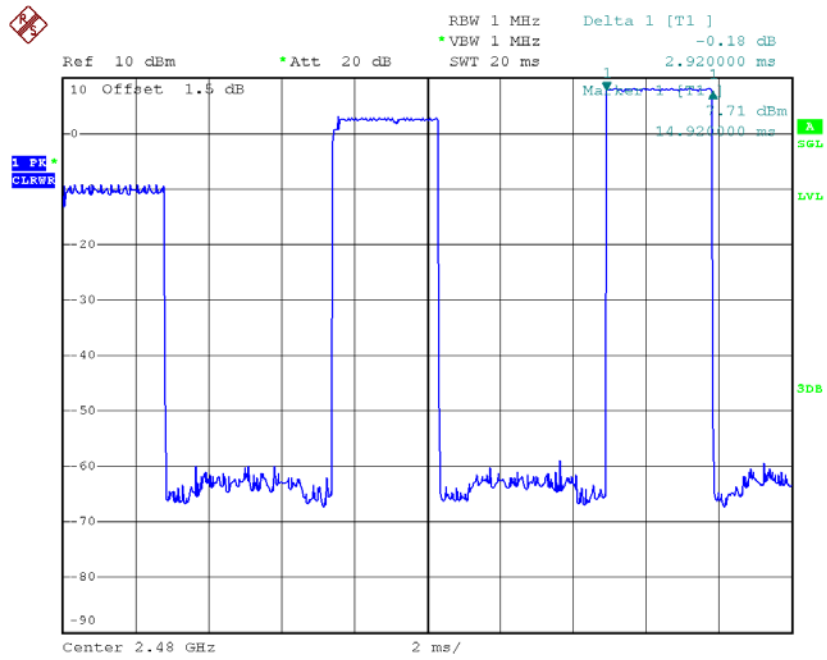
Date: 11.JAN.2017 18:51:21

CH78-DH3



Date: 11.JAN.2017 18:58:32

CH78-DH5

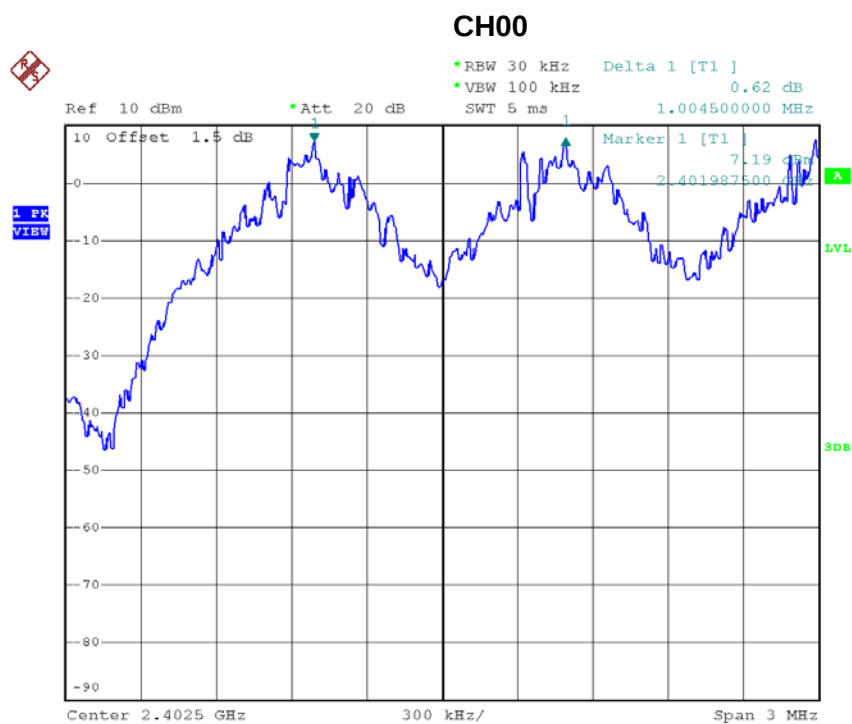


Date: 11.JAN.2017 18:59:34

ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT

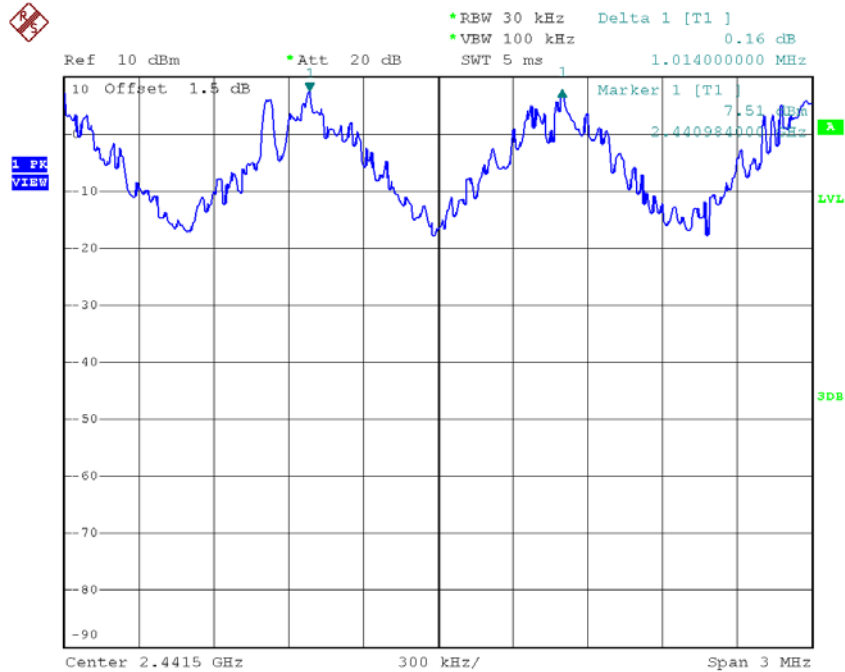
Test Mode :	Hopping on _1Mbps
-------------	-------------------

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.005	0.623	Pass
2441	1.014	0.615	Pass
2480	0.990	0.631	Pass



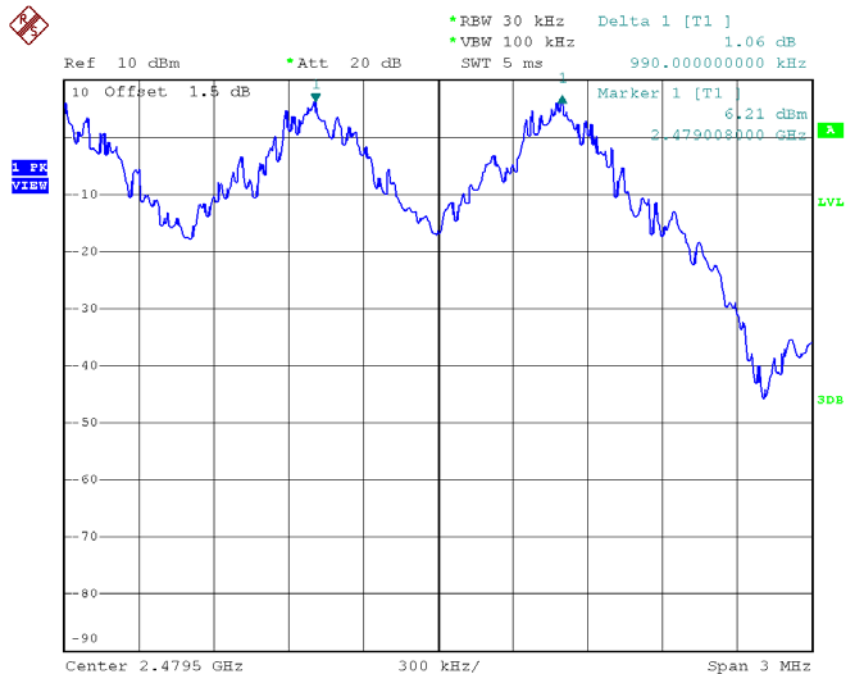
Date: 11.JAN.2017 18:24:30

CH39



Date: 11.JAN.2017 18:27:59

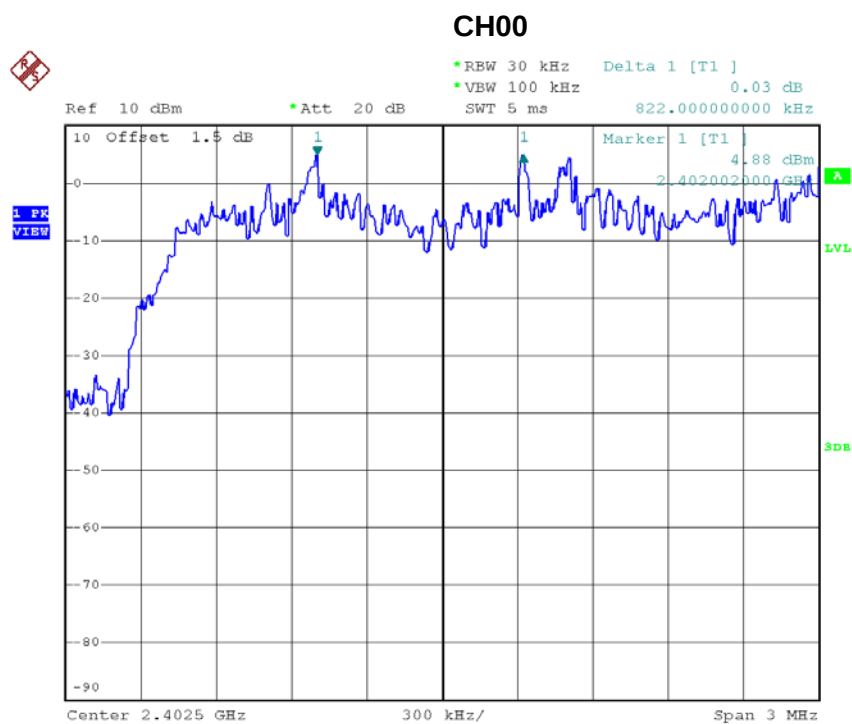
CH78



Date: 11.JAN.2017 18:29:04

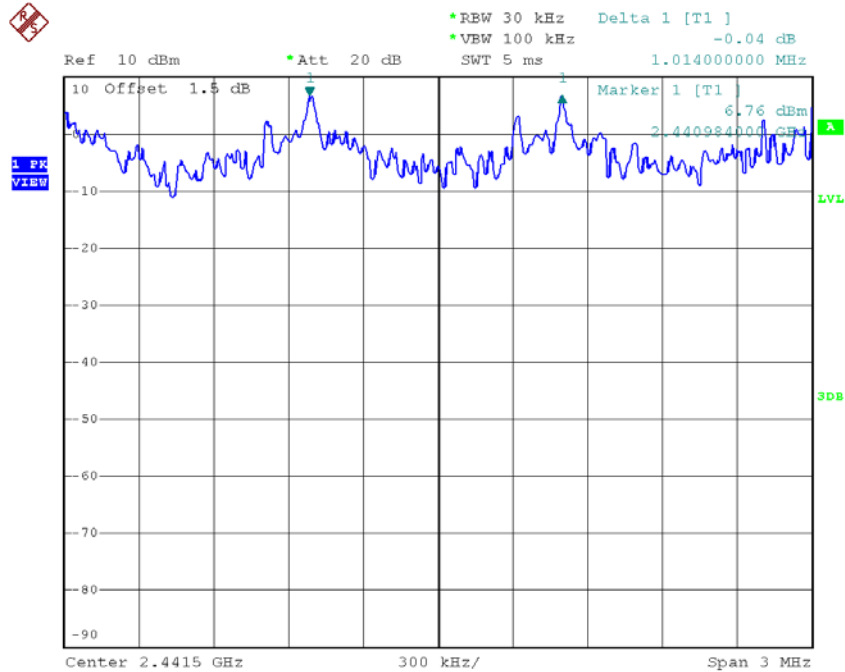
Test Mode :	Hopping on _3Mbps
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Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.822	0.869	Pass
2441	1.014	0.863	Pass
2480	1.008	0.868	Pass



Date: 11.JAN.2017 18:52:26

CH39



Date: 11.JAN.2017 18:53:31

CH78

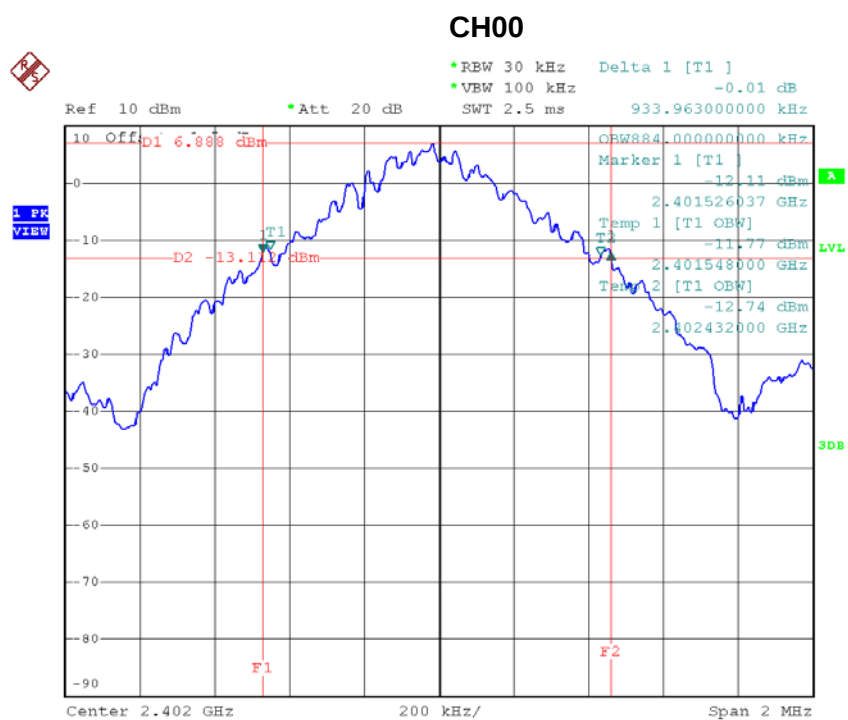


Date: 11.JAN.2017 18:54:35

ATTACHMENT H - BANDWIDTH

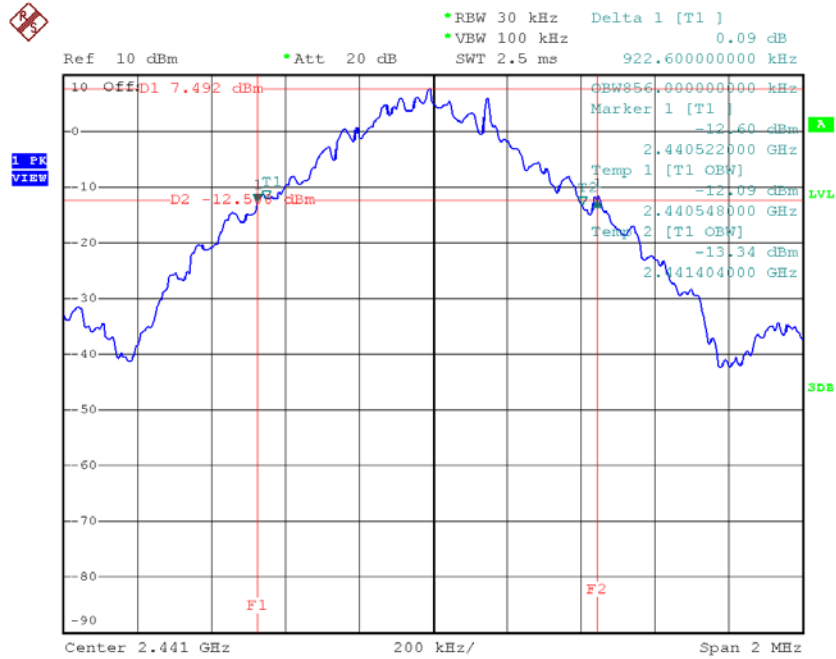
Test Mode :	TX Mode _1Mbps
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Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.934	0.884	Pass
2441	0.923	0.856	Pass
2480	0.946	0.860	Pass



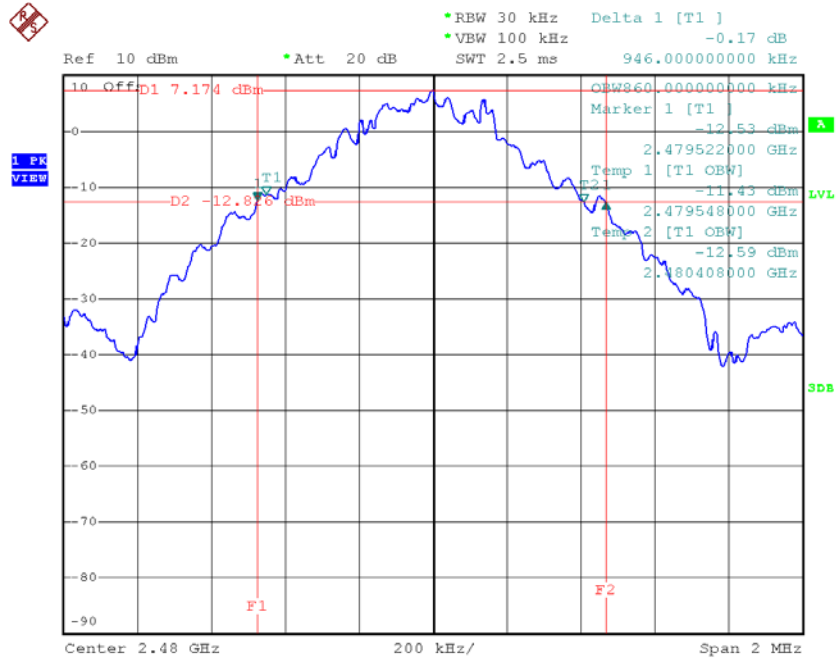
Date: 11.JAN.2017 18:18:51

CH39



Date: 11.JAN.2017 18:20:41

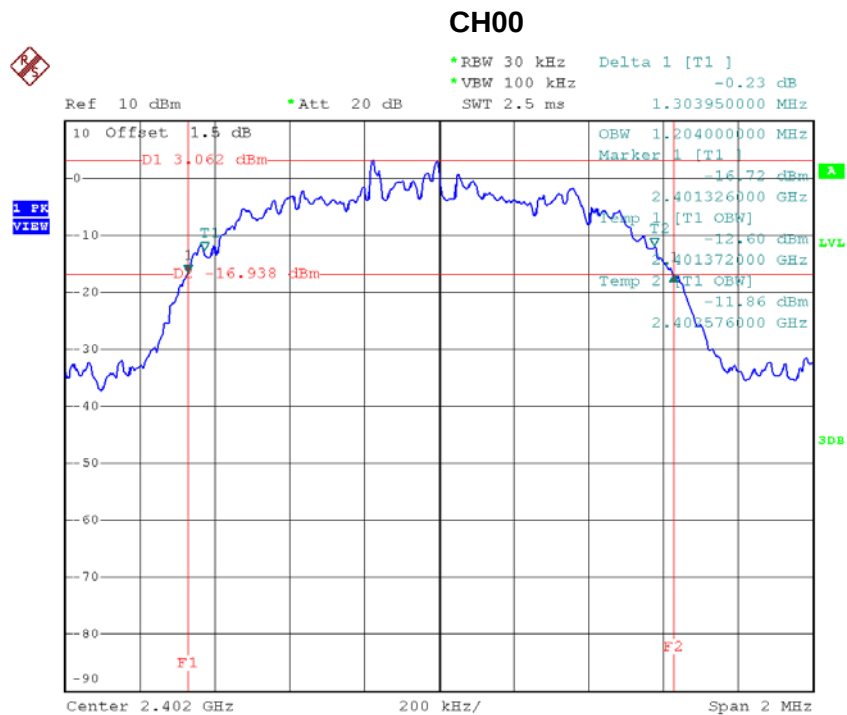
CH78



Date: 11.JAN.2017 18:21:29

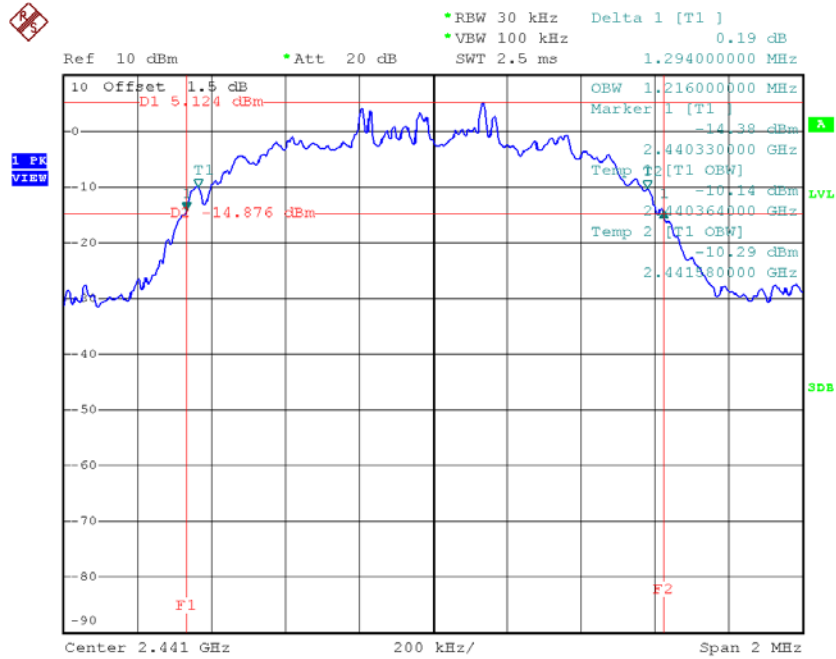
Test Mode : TX Mode _3Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.304	1.204	Pass
2441	1.294	1.216	Pass
2480	1.302	1.216	Pass



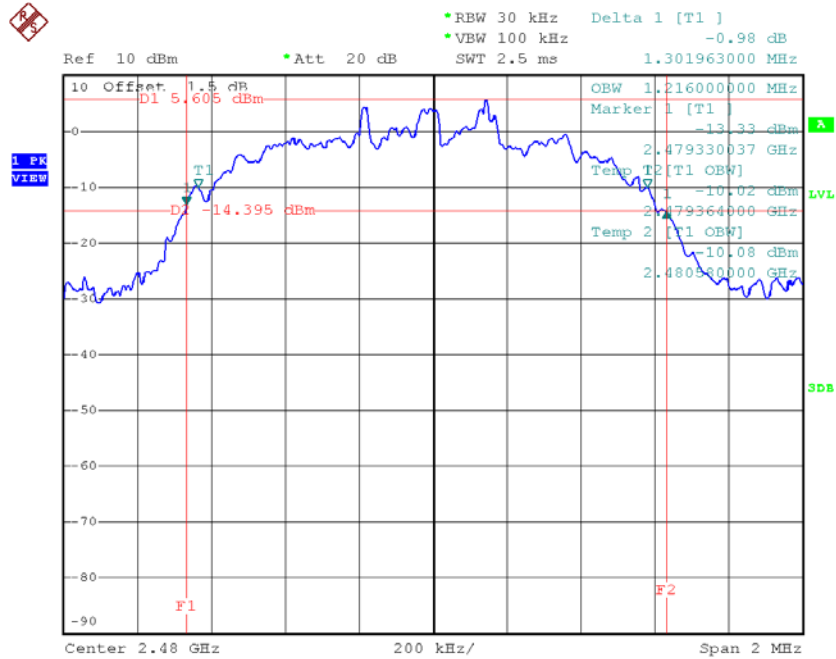
Date: 11.JAN.2017 18:47:51

CH39



Date: 11.JAN.2017 18:49:23

CH78

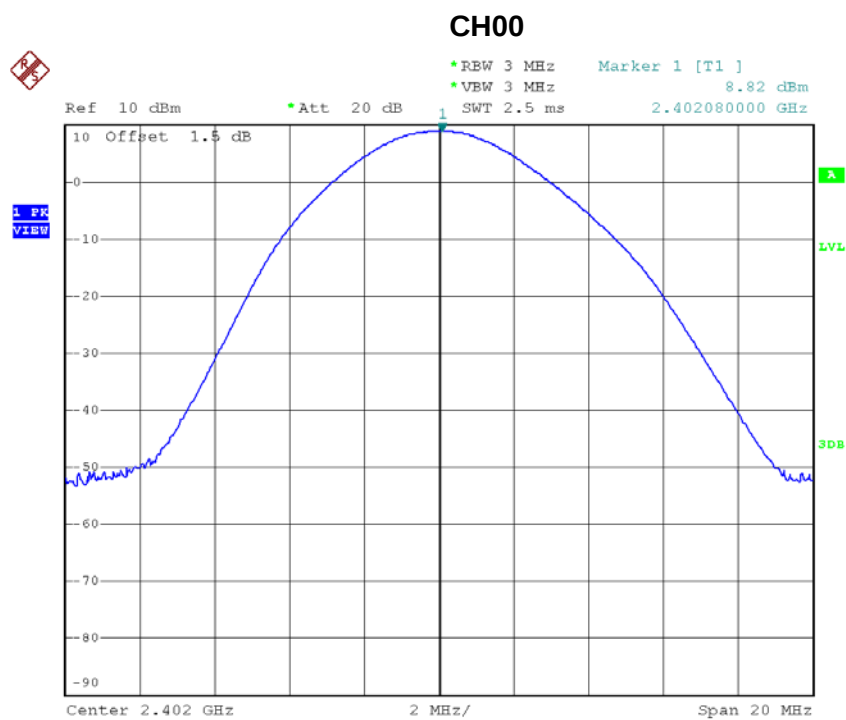


Date: 11.JAN.2017 18:50:01

ATTACHMENT I - PEAK OUTPUT POWER

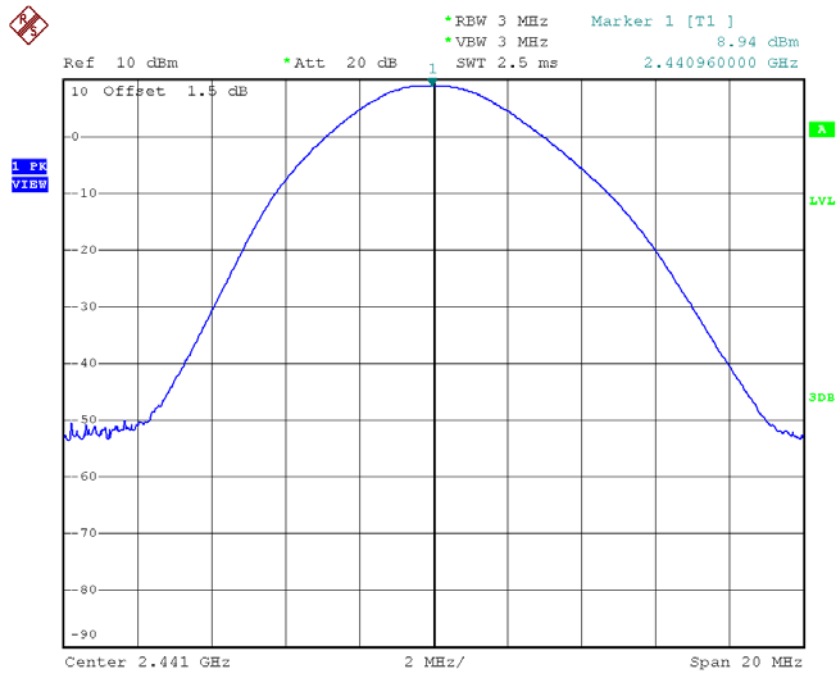
Test Mode :	TX Mode _1Mbps
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	8.82	0.0076	30.00	1.00	Pass
2441	8.94	0.0078	30.00	1.00	Pass
2480	8.94	0.0078	30.00	1.00	Pass



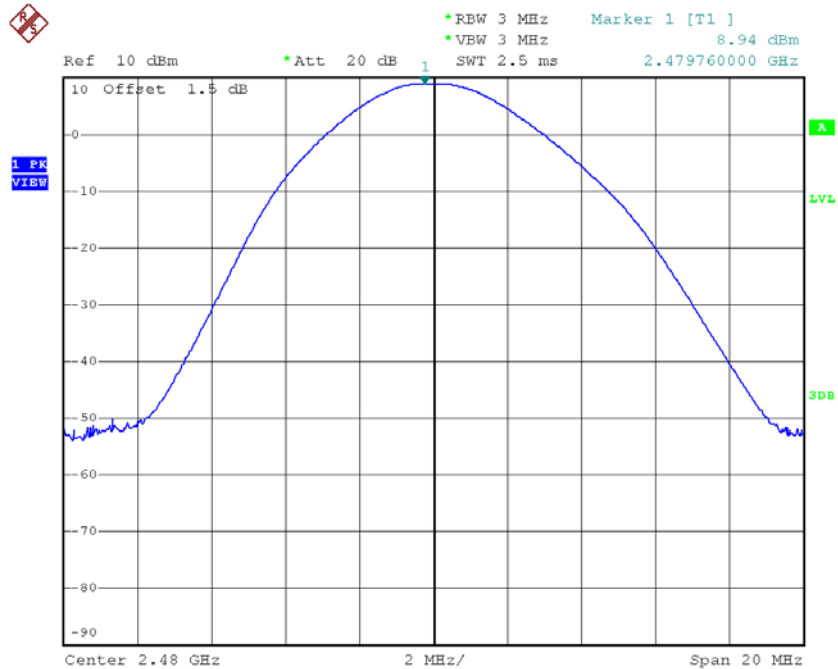
Date: 11.JAN.2017 18:08:37

CH39



Date: 11.JAN.2017 18:14:24

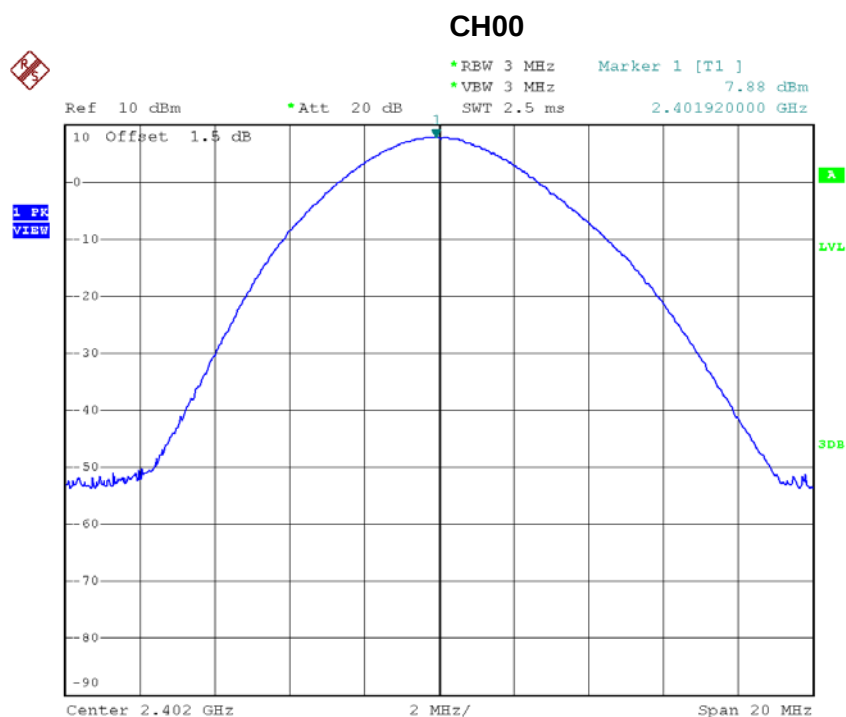
CH78



Date: 11.JAN.2017 18:17:38

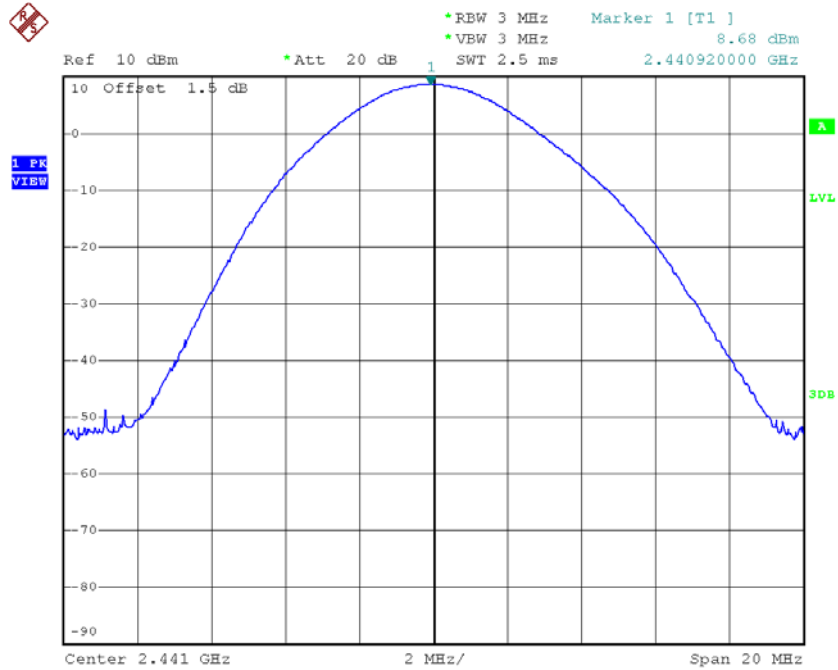
Test Mode :	TX Mode _3Mbps
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.88	0.0061	30.00	1.00	Pass
2441	8.68	0.0074	30.00	1.00	Pass
2480	8.46	0.0070	30.00	1.00	Pass



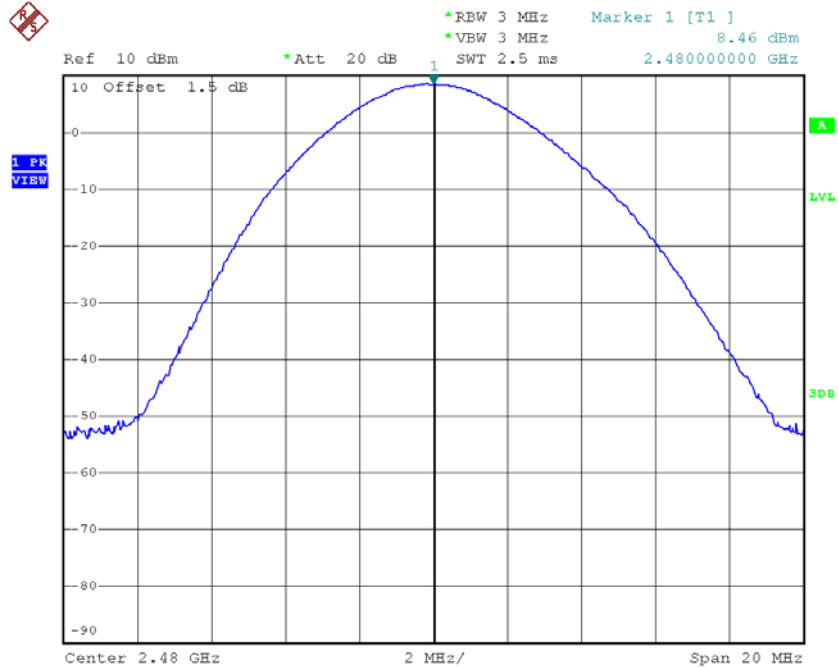
Date: 11.JAN.2017 18:45:33

CH39



Date: 11.JAN.2017 18:46:00

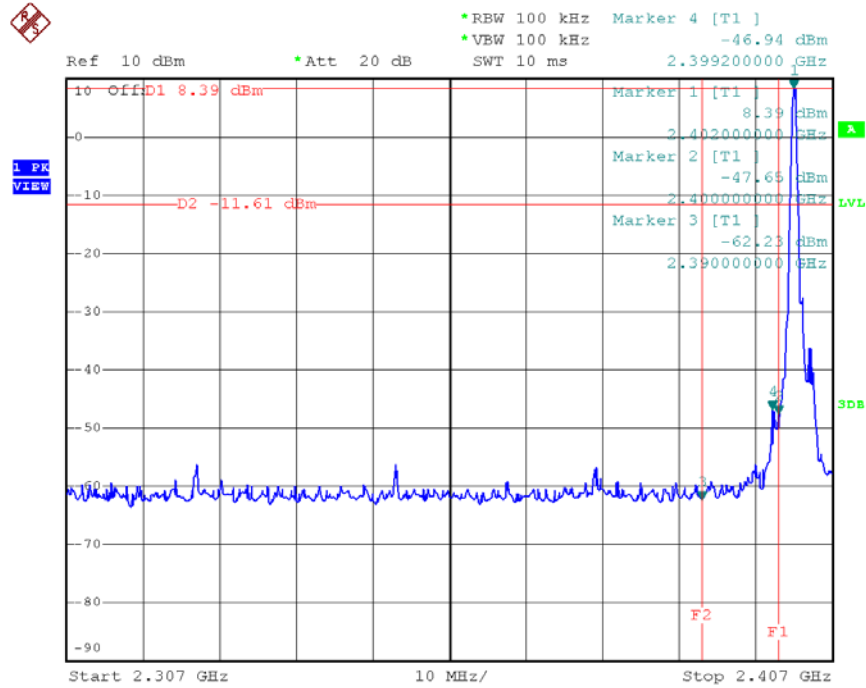
CH78



Date: 11.JAN.2017 18:46:19

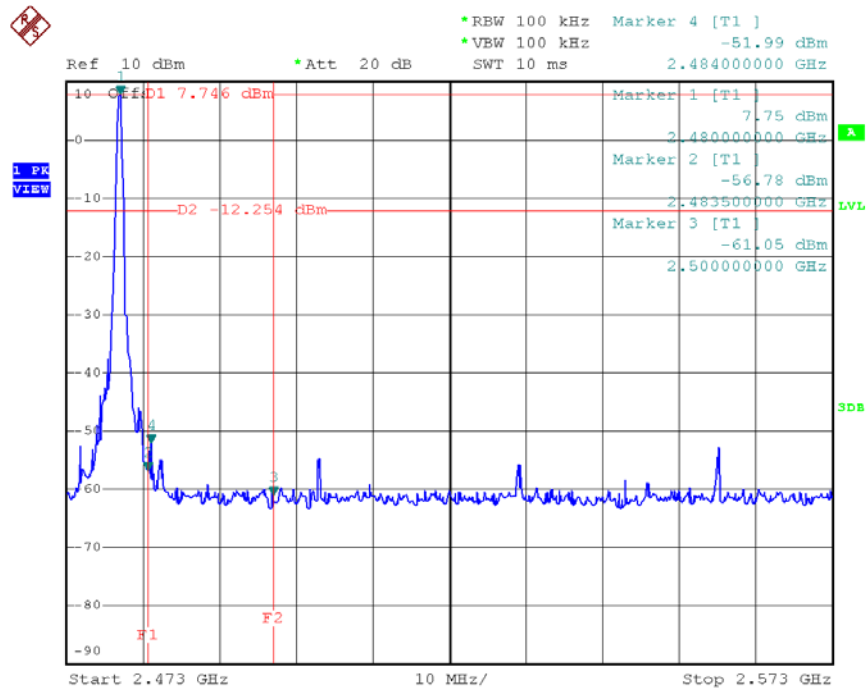
ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION

CH00 (Lower)_1Mbps



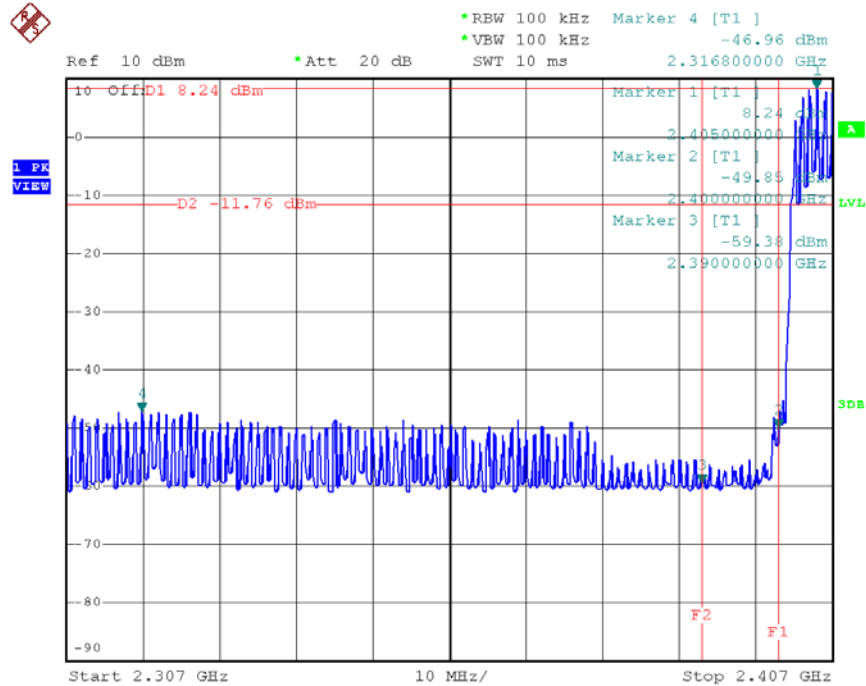
Date: 11.JAN.2017 18:18:23

CH78 (Upper)_1Mbps



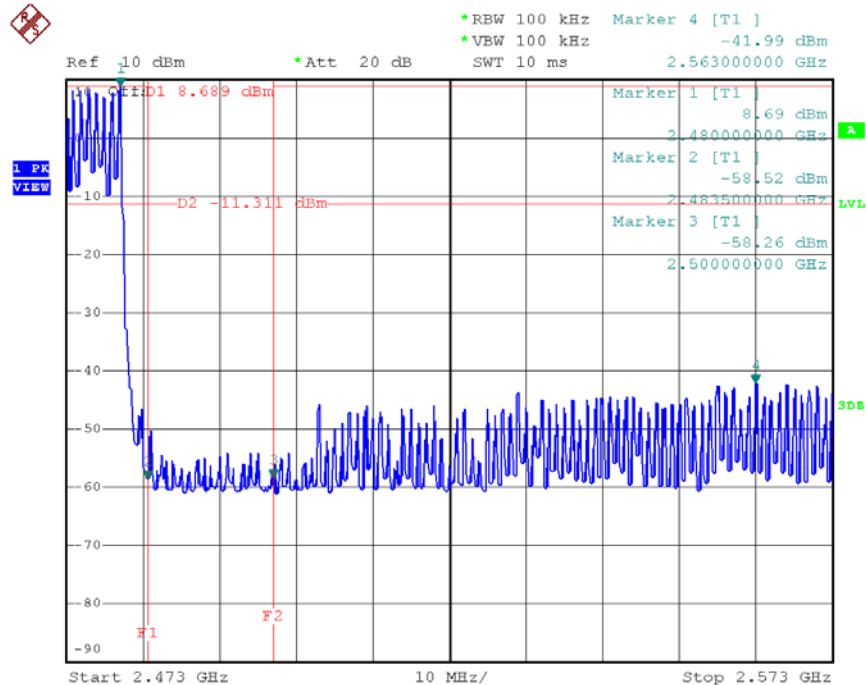
Date: 11.JAN.2017 18:21:03

CH00 Hopping on mode (Lower)_1Mbps



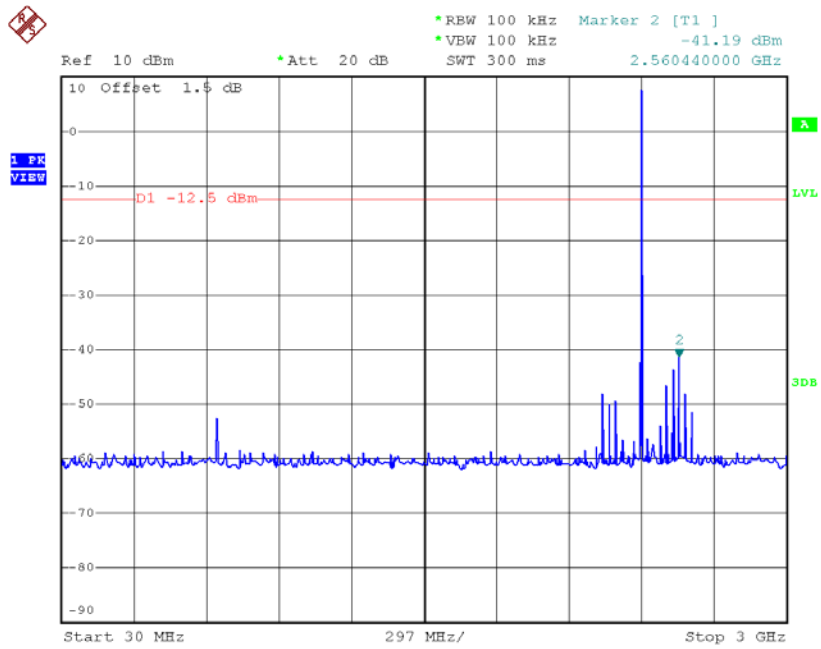
Date: 11.JAN.2017 18:31:33

CH78 Hopping on mode (Upper)_1Mbps

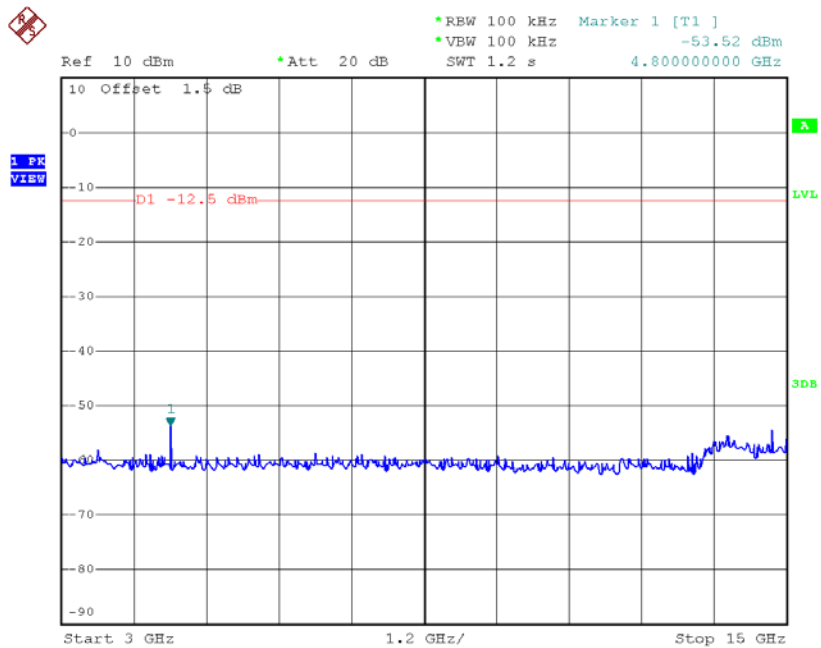


Date: 11.JAN.2017 18:32:13

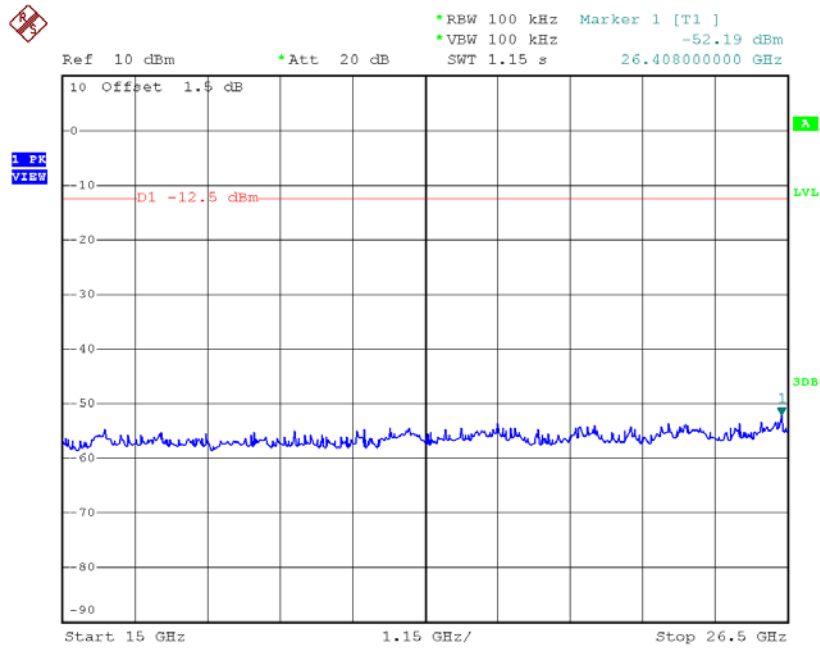
CH00 (10 Harmonic of the frequency) _1Mbps



Date: 11.JAN.2017 18:19:05

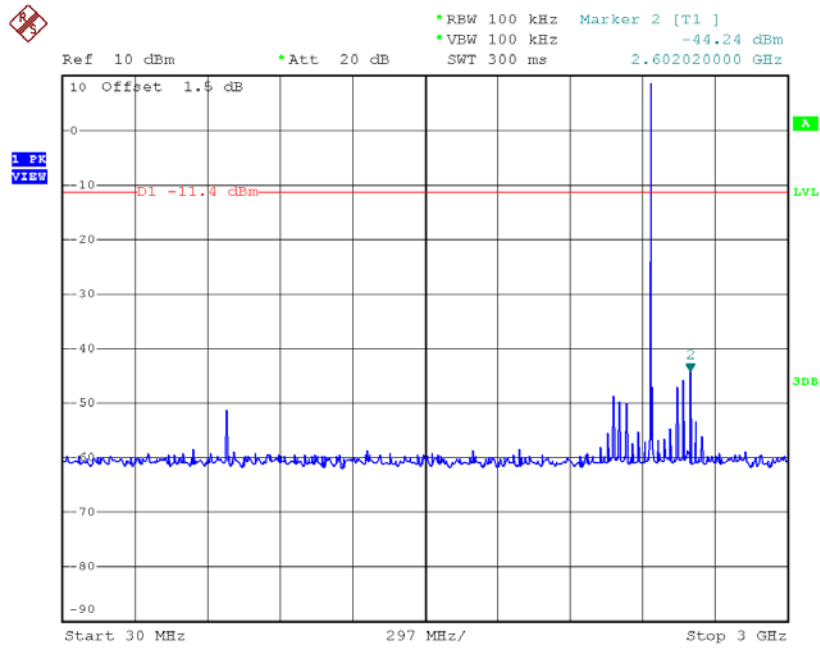


Date: 11.JAN.2017 18:19:14

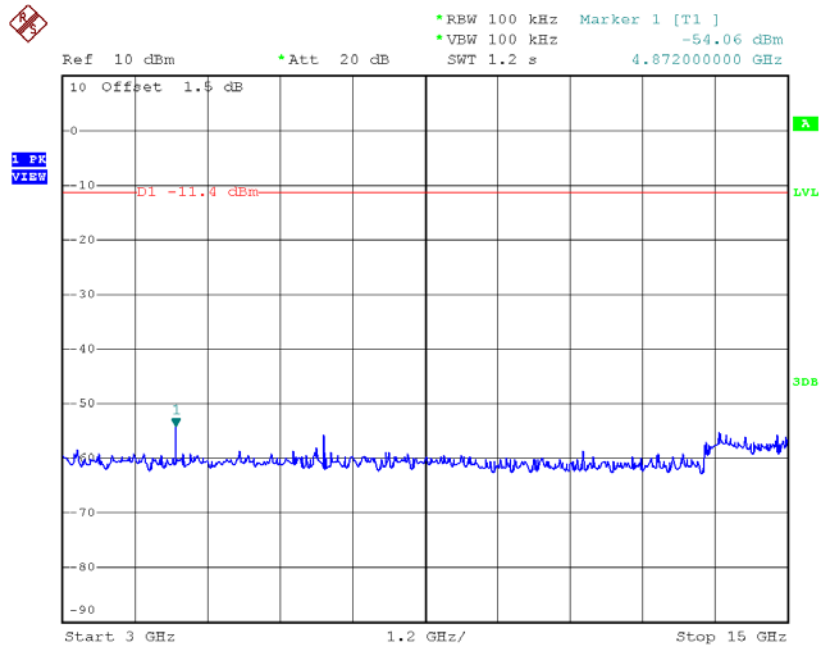


Date: 11.JAN.2017 18:19:22

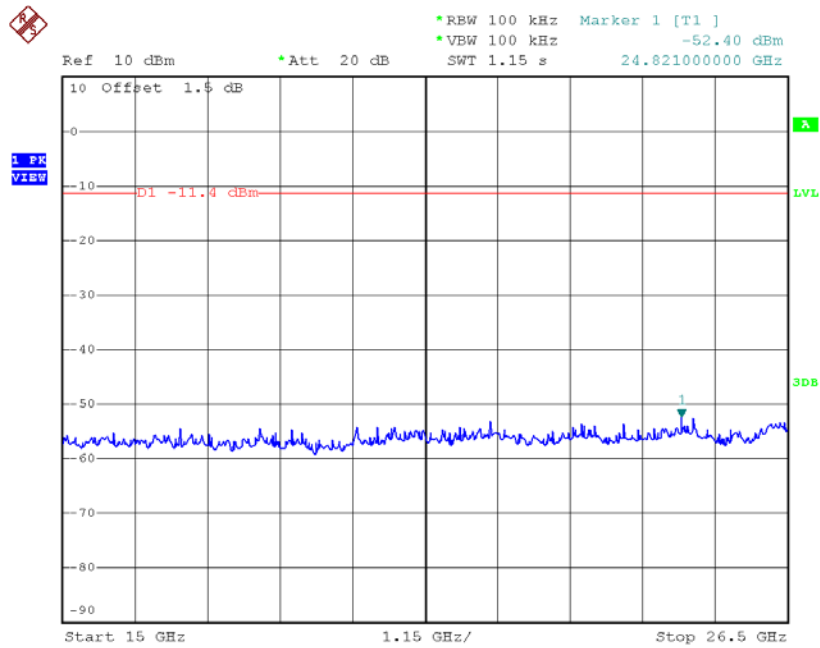
CH39 (10 Harmonic of the frequency) _1Mbps



Date: 11.JAN.2017 18:19:56

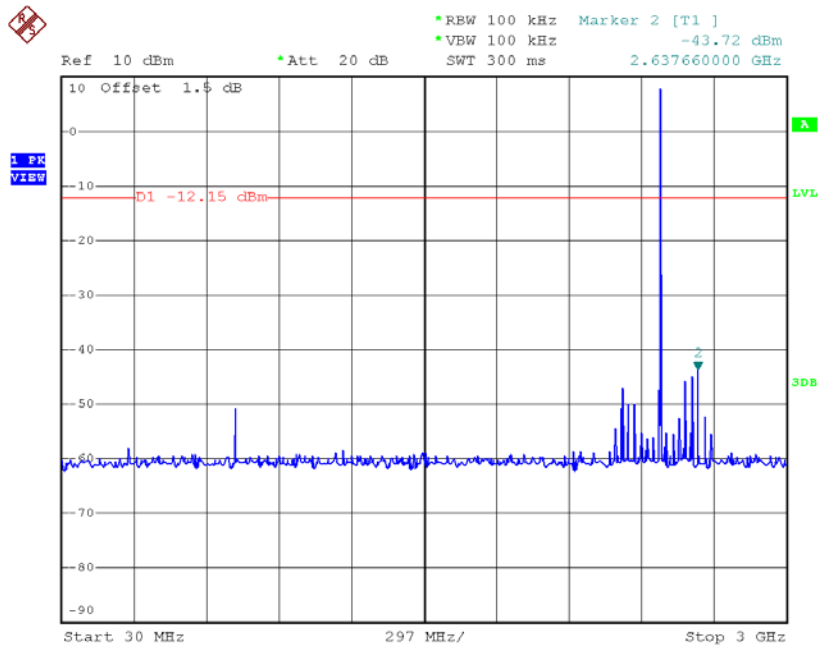


Date: 11.JAN.2017 18:20:04

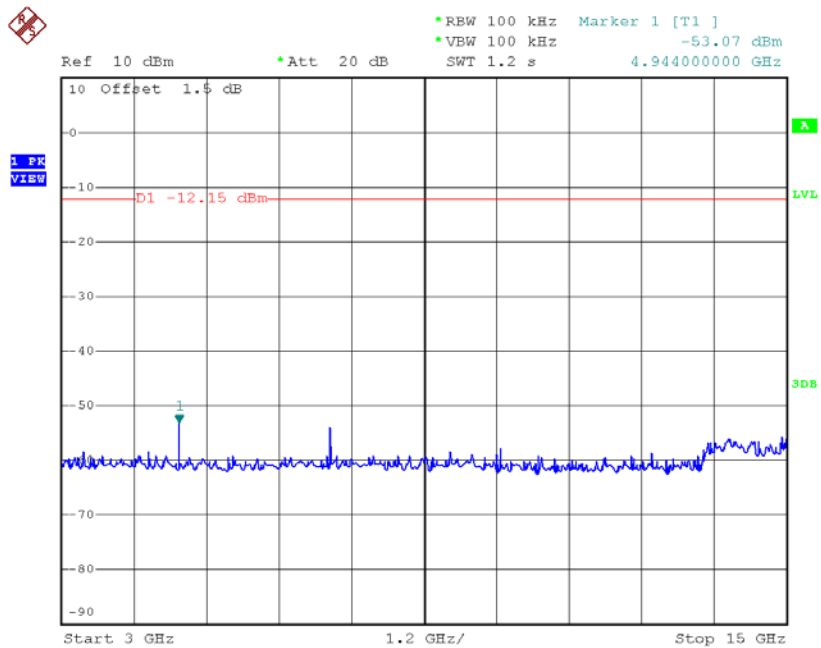


Date: 11.JAN.2017 18:20:13

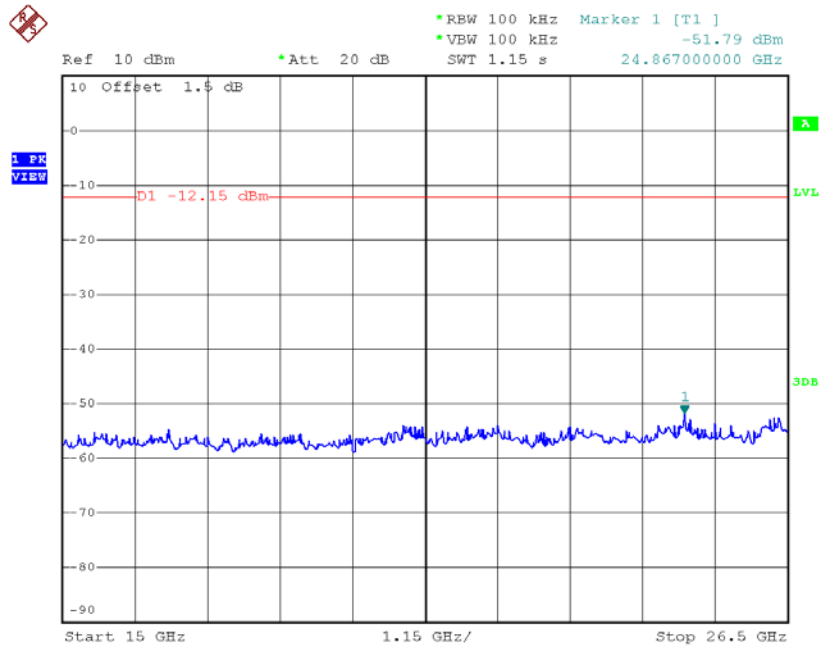
CH78 (10 Harmonic of the frequency) _1Mbps



Date: 11.JAN.2017 18:21:43

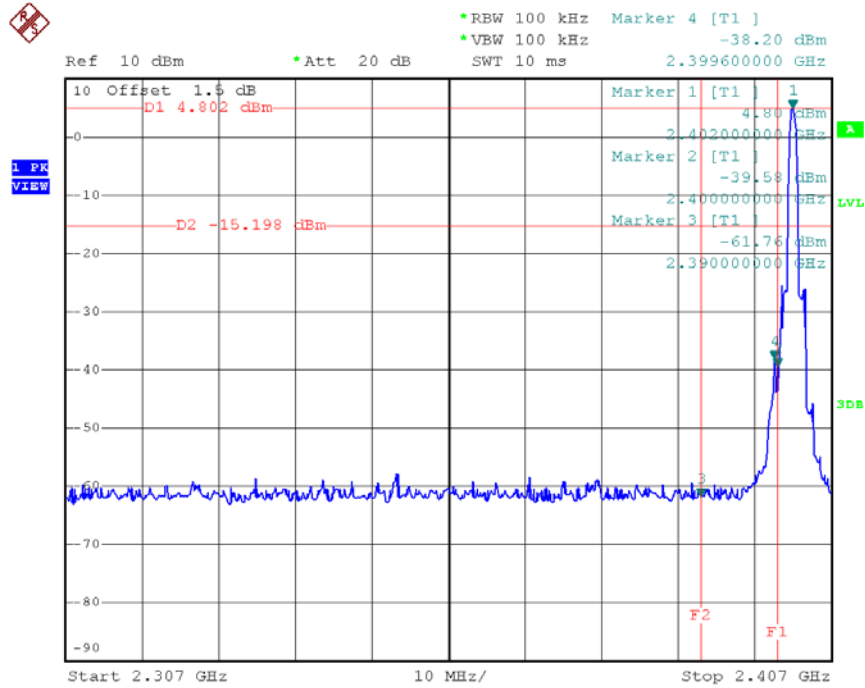


Date: 11.JAN.2017 18:21:52



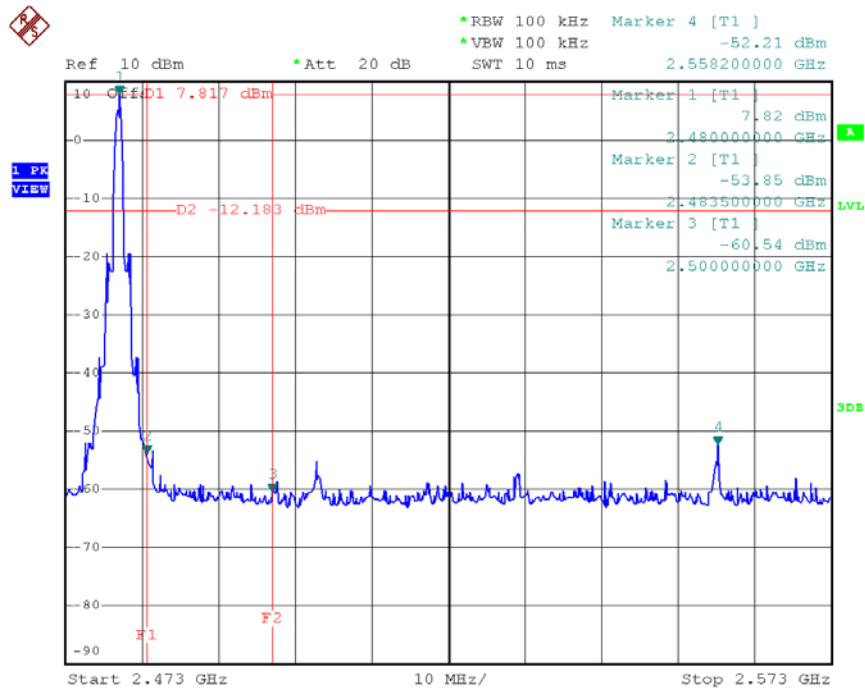
Date: 11.JAN.2017 18:22:00

CH00 (Lower) _3Mbps



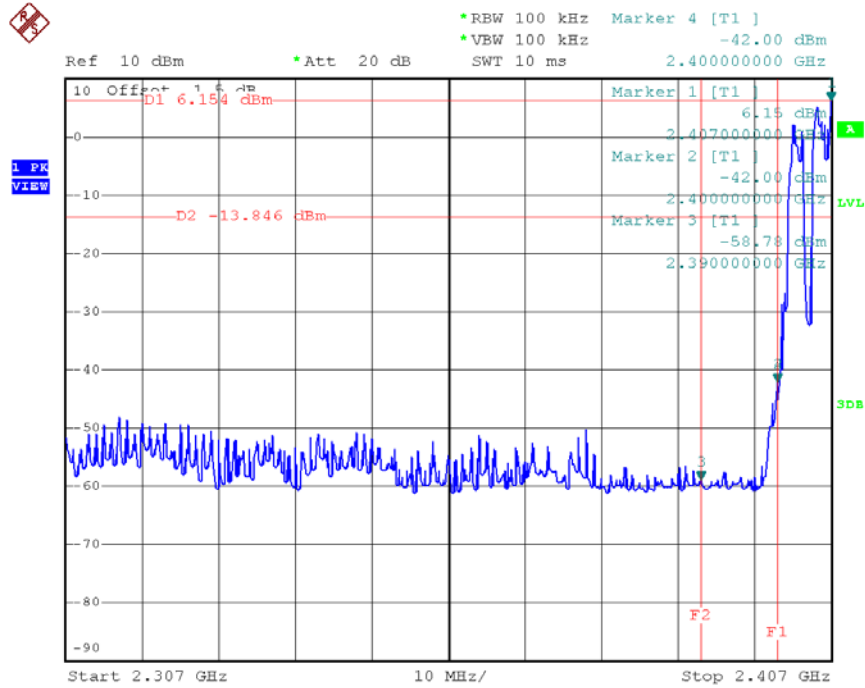
Date: 11.JAN.2017 18:47:30

CH78 (Upper) _3Mbps



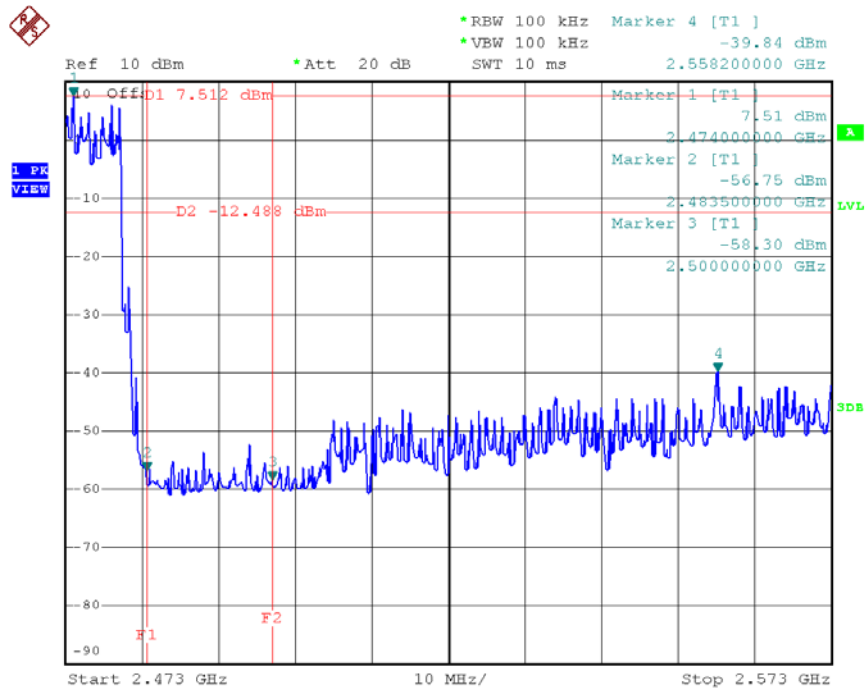
Date: 11.JAN.2017 18:49:41

CH00 Hopping on mode (Lower)_3Mbps



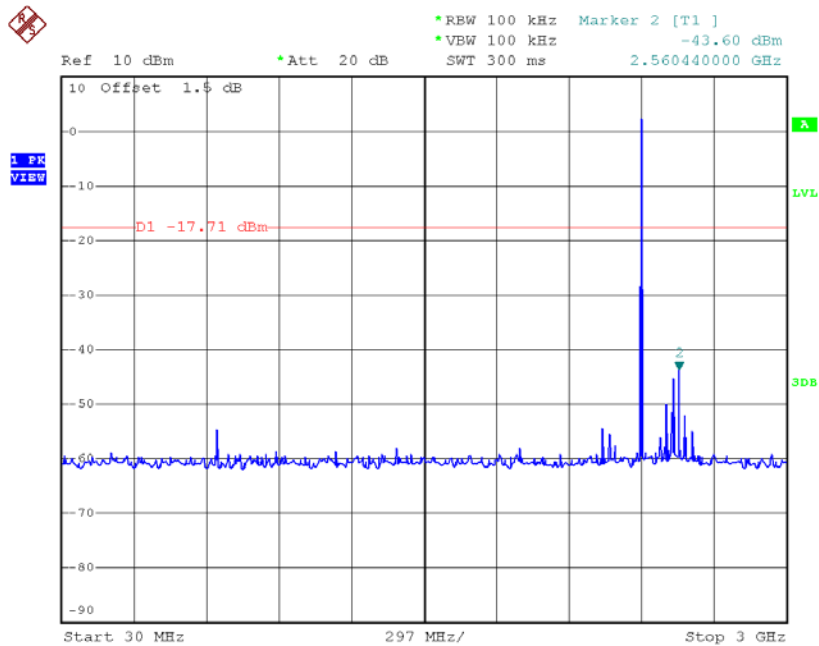
Date: 11.JAN.2017 18:57:01

CH78 Hopping on mode (Upper)_3Mbps

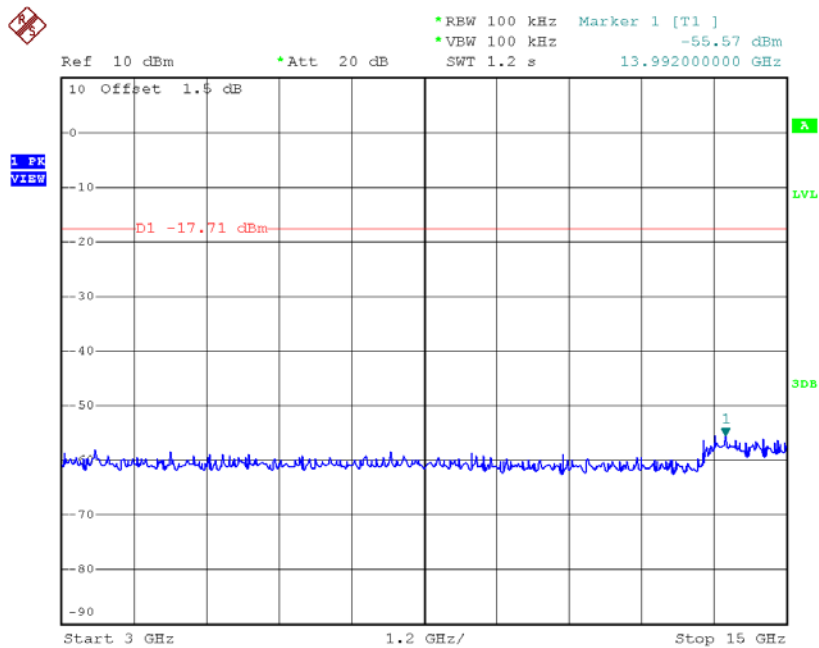


Date: 11.JAN.2017 18:57:38

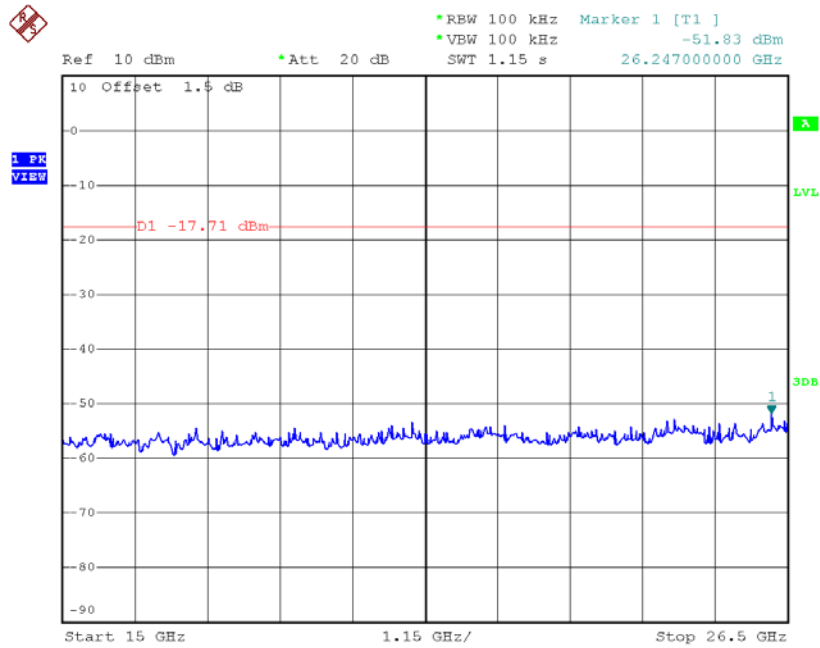
CH00 (10 Harmonic of the frequency) _3Mbps



Date: 11.JAN.2017 18:48:05

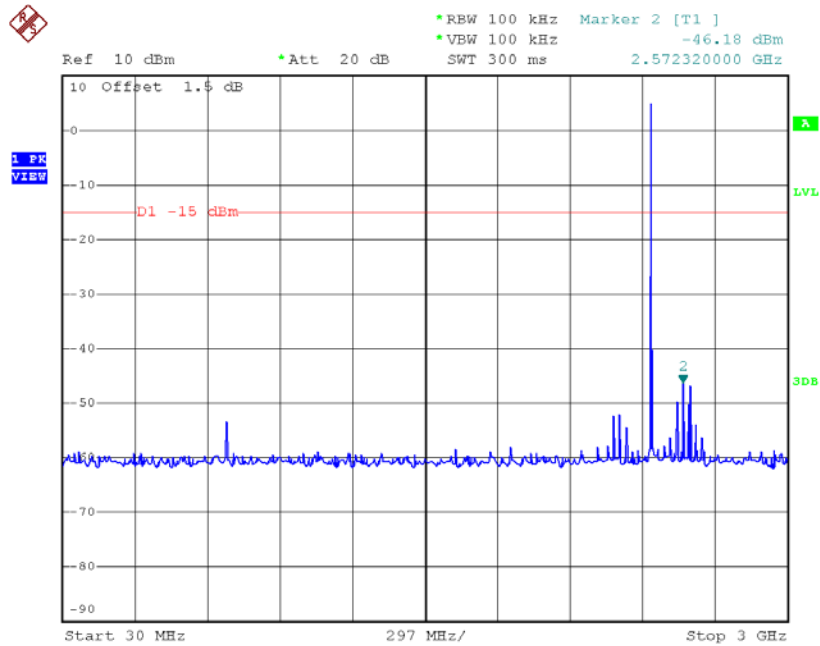


Date: 11.JAN.2017 18:48:14

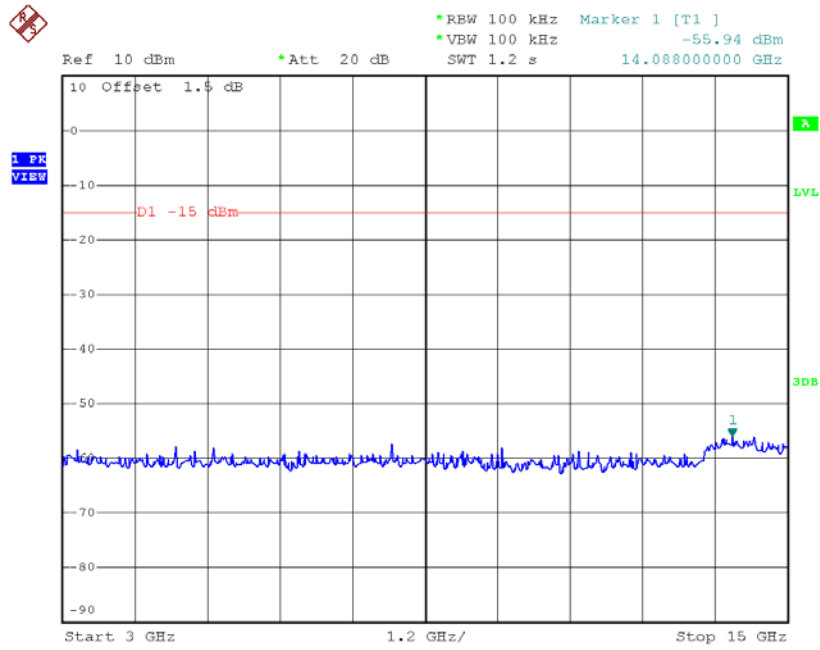


Date: 11.JAN.2017 18:48:22

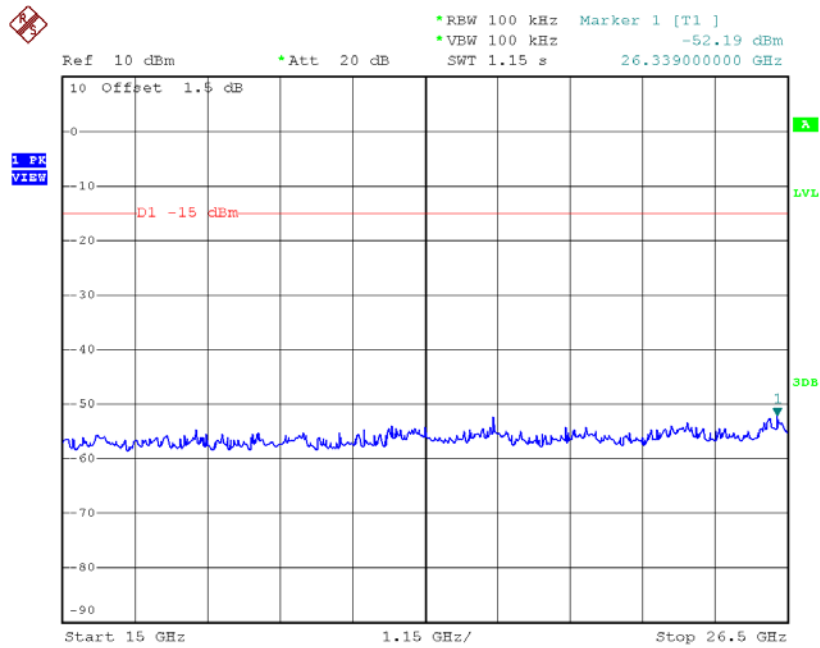
CH39 (10 Harmonic of the frequency) _3Mbps



Date: 11.JAN.2017 18:48:45

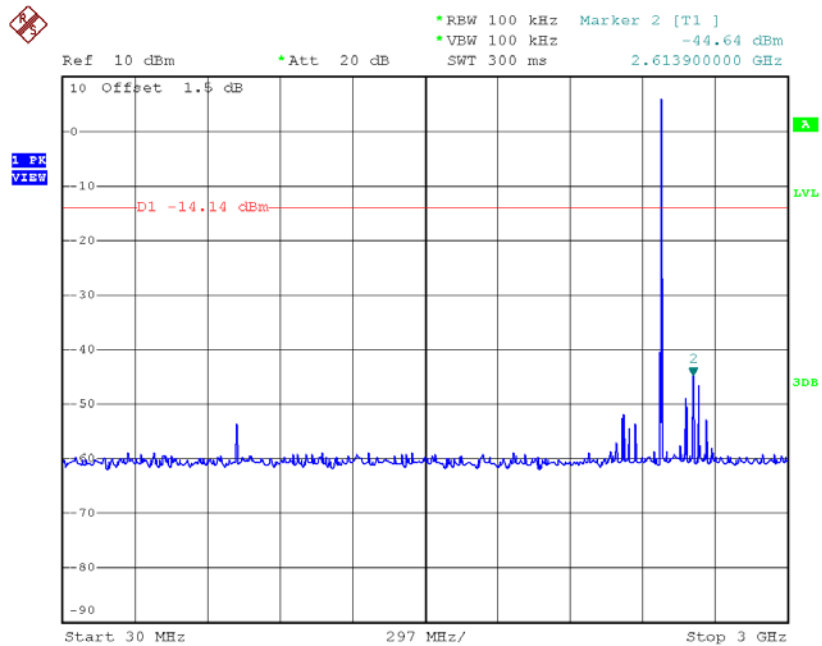


Date: 11.JAN.2017 18:48:53

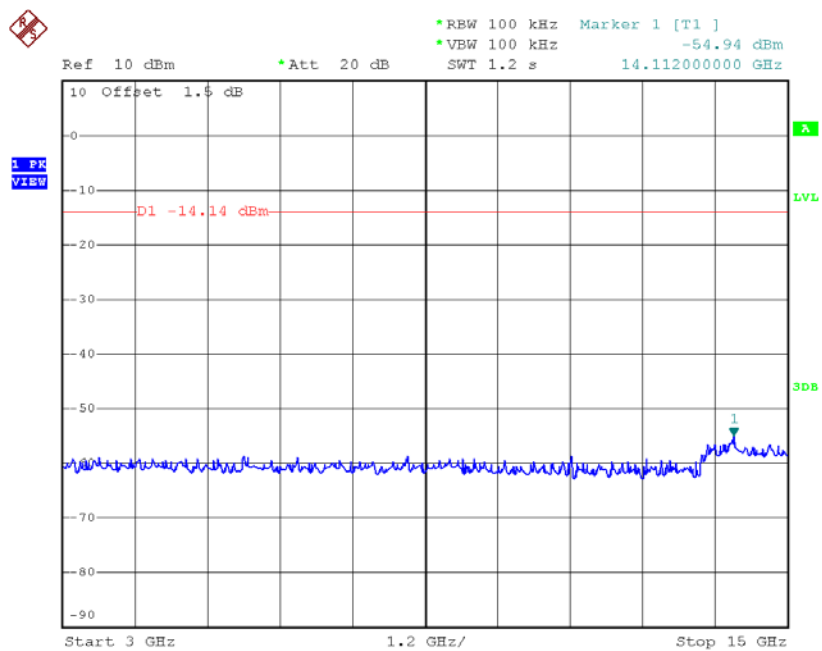


Date: 11.JAN.2017 18:49:01

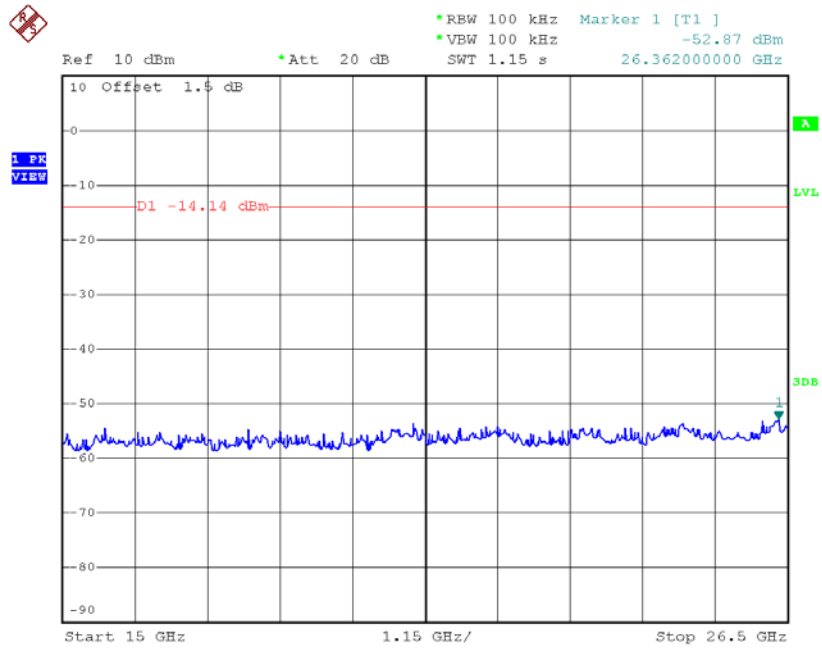
CH78 (10 Harmonic of the frequency) _3Mbps



Date: 11.JAN.2017 18:50:15



Date: 11.JAN.2017 18:50:23



Date: 11.JAN.2017 18:50:31