

FCC Radio Test Report

FCC ID: 2AIMRMDZ16AB

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

Project No. : 1605C248
Equipment : MI BOX
Model Name : MDZ-16-AB
Applicant : Beijing Xiaomi Electronics Co.,Ltd
Address : Room 707,7F,Building 5,No 58,JinghaiWulu
Road ,Beijing economic and Technological
Development Zone

Date of Receipt : May 27, 2016
Date of Test : May 27, 2016 ~ Jul. 04, 2016
Issued Date : Jul. 05, 2016
Tested by : BTL Inc.

Testing Engineer : Shawn Xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

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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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-1-1605C248	Original Issue.	Jul. 04, 2016

1. CERTIFICATION

Equipment : MI BOX
Brand Name : MI
Model Name : MDZ-16-AB
Applicant : Beijing Xiaomi Electronics Co.,Ltd
Manufacturer : Beijing Xiaomi Electronics Co.,Ltd
Address : Room 707,7F,Building 5,No 58,JinghaiWulu Road ,Beijing economic and
Technological Development Zone
Factory : TCL Technoly Electronics (Huizhou) Co.,Ltd.
Address : 37, Zhongkai Hi-tech Development Zone, Huizhou Guangdong 516006,
P.R.China
Date of Test : May 27, 2016 ~ Jul. 04, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C (15.247)/ ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1605C248) 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 RESULT

Test procedures according to the technical standard(s):

Applied Standard(s): 47 CFR Part 15, 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)(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	MI BOX	
Brand Name	MI	
Model Name	MDZ-16-AB	
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.	9.55 dBm(1Mbps) 8.63 dBm(3Mbps)
Power Source	DC Voltage supplied from AC/DC adapter. #1 Brand /Model: MI / AY11BA-AF0522102 #2 Brand /Model: MI / GSCU2100S05V215S	
Power Rating	#1 I/P: 100-240V~0.5A 50/60Hz O/P:5.2V ---2.1A #2 I/P: 100-240V~0.3A 50/60Hz O/P:5.2V ---2.1A	

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	MI	ANT_M12	PCB	N/A	3.3

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:

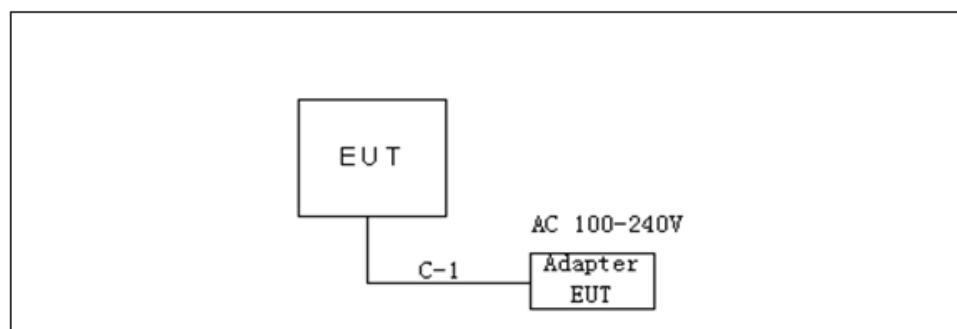
- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

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	N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	N/A	N/A	N/A
Parameters(3Mbps)	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
C-1	NO	NO	1m	DC 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

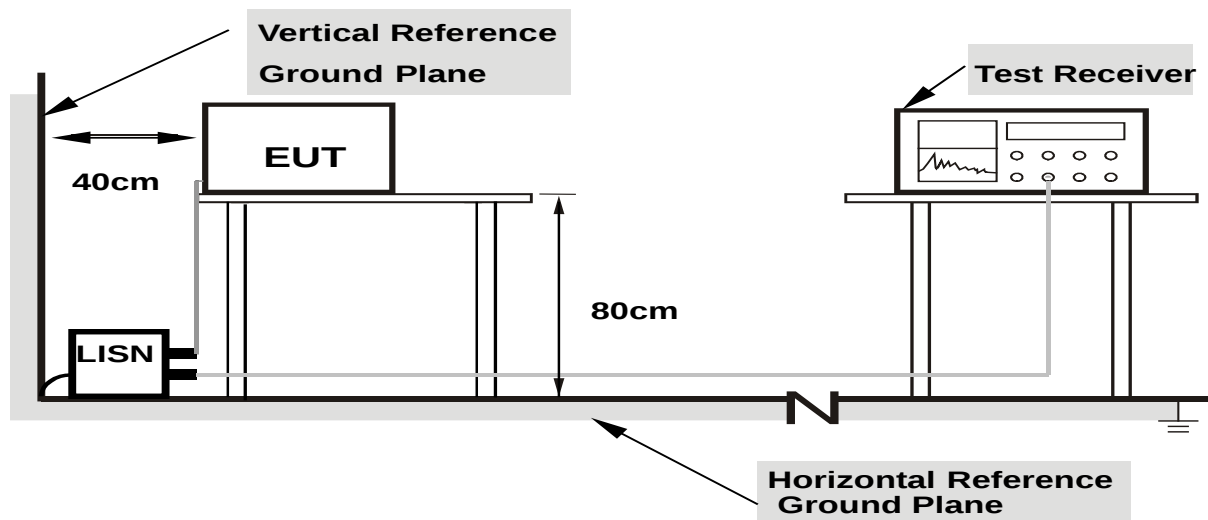
4.1.2 TEST PROCEDURE

- 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)	dB(uV/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)	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

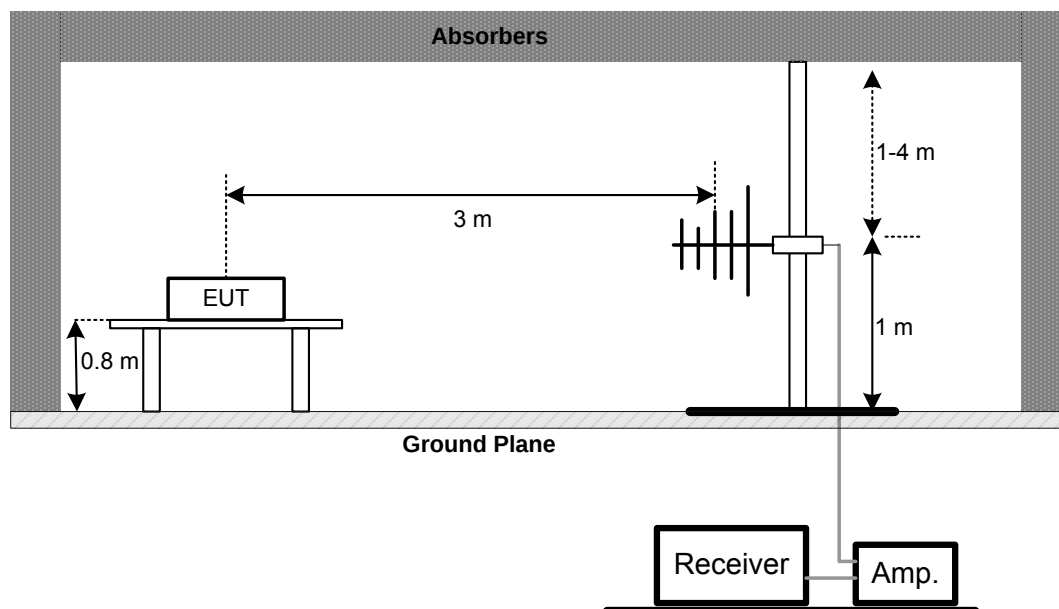
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

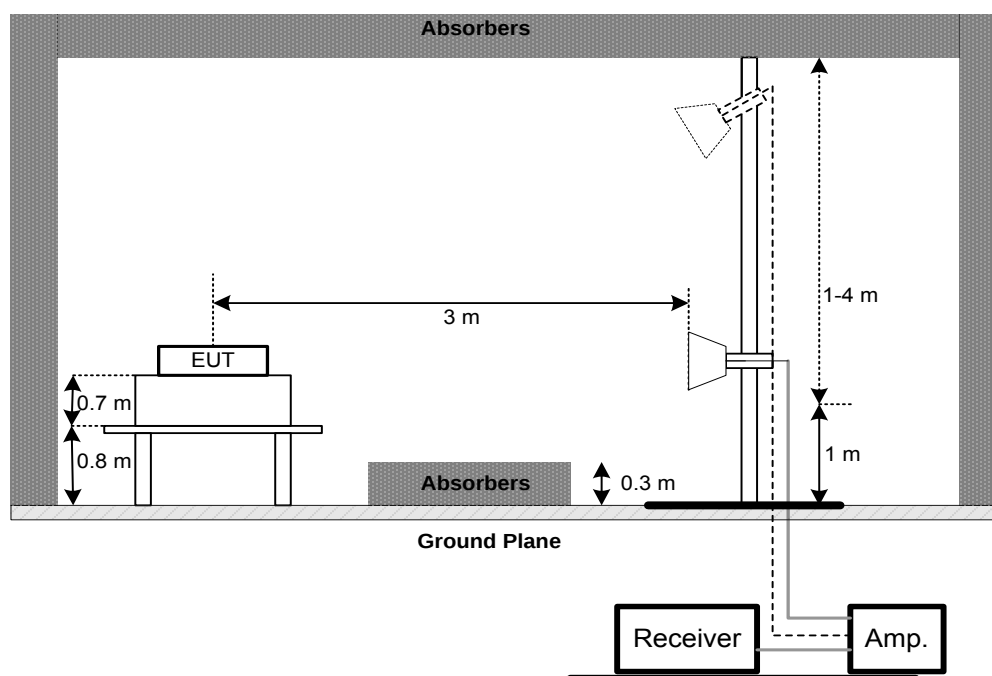
No deviation

4.2.4 TEST SETUP

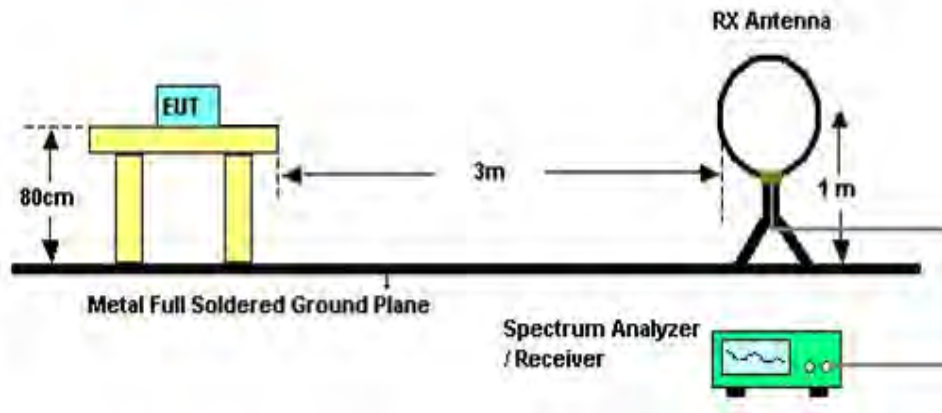
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT 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

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.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW=120KHz, Swp. Time = 0.3 sec./MHz.
- (2) 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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. 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

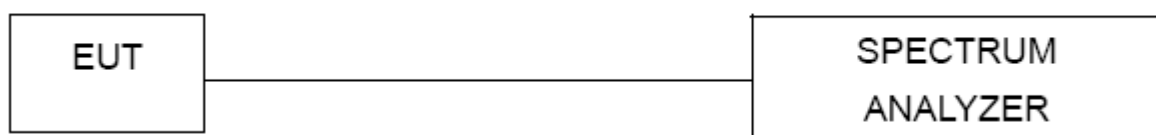
6.1.1 TEST PROCEDURE

- 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

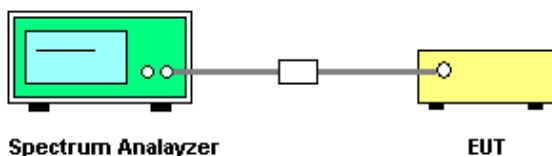
7.1.1 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. 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

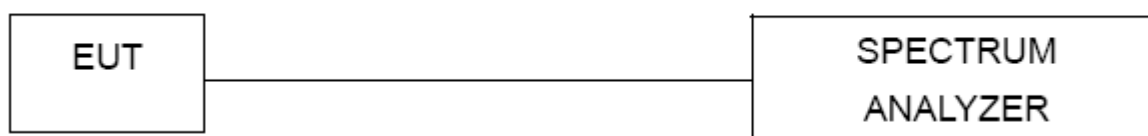
9.1.1 TEST PROCEDURE

- 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

- 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=100KHz, Sweep time = Auto.
- c. 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	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 27, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz – 26.5GHz)	C-68	Jun. 27, 2017
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Number of Hopping Channel					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Average Time of Occupancy					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

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

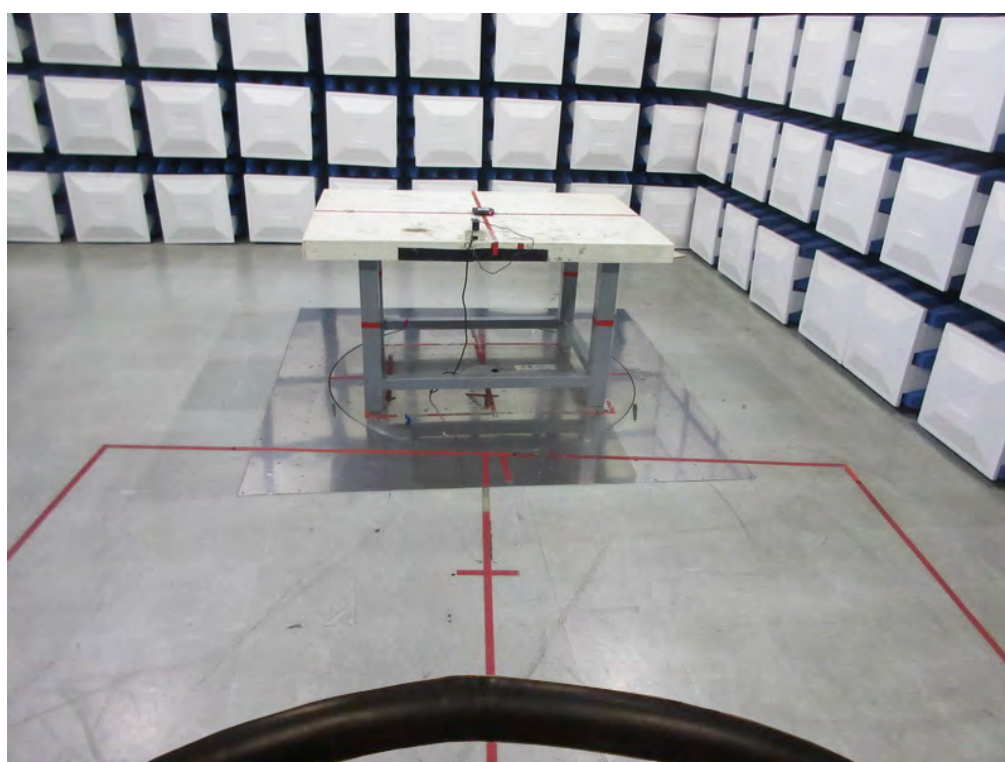
12. EUT TEST PHOTO

Conducted Measurement Photos



Radiated Measurement Photos

9KHz to 30MHz



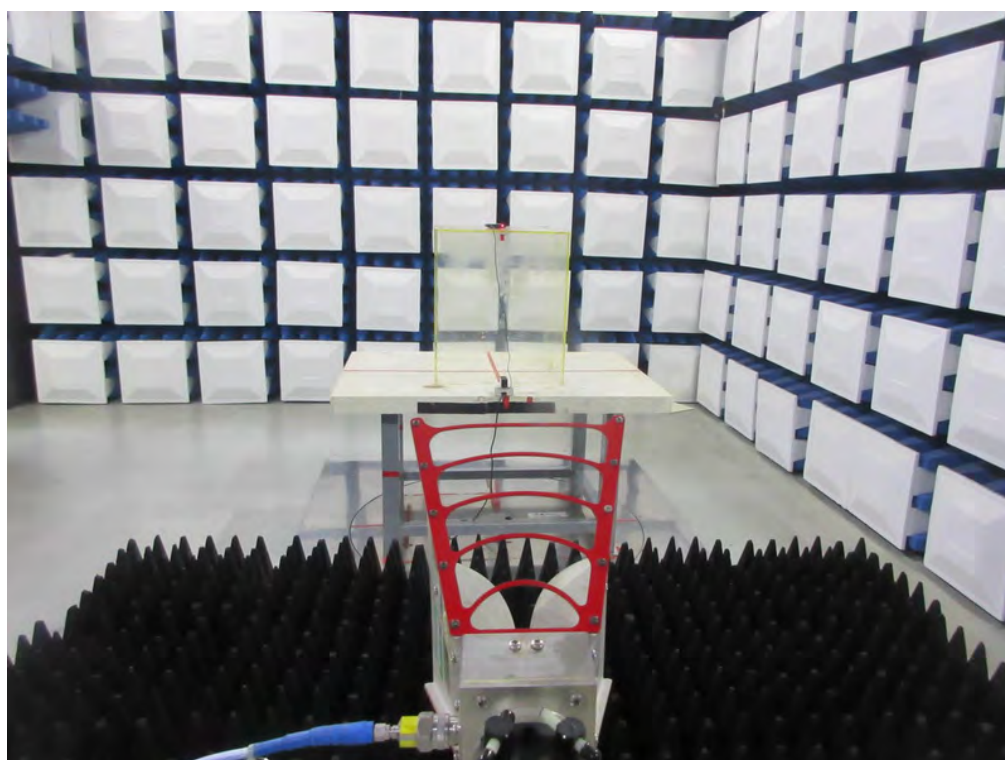
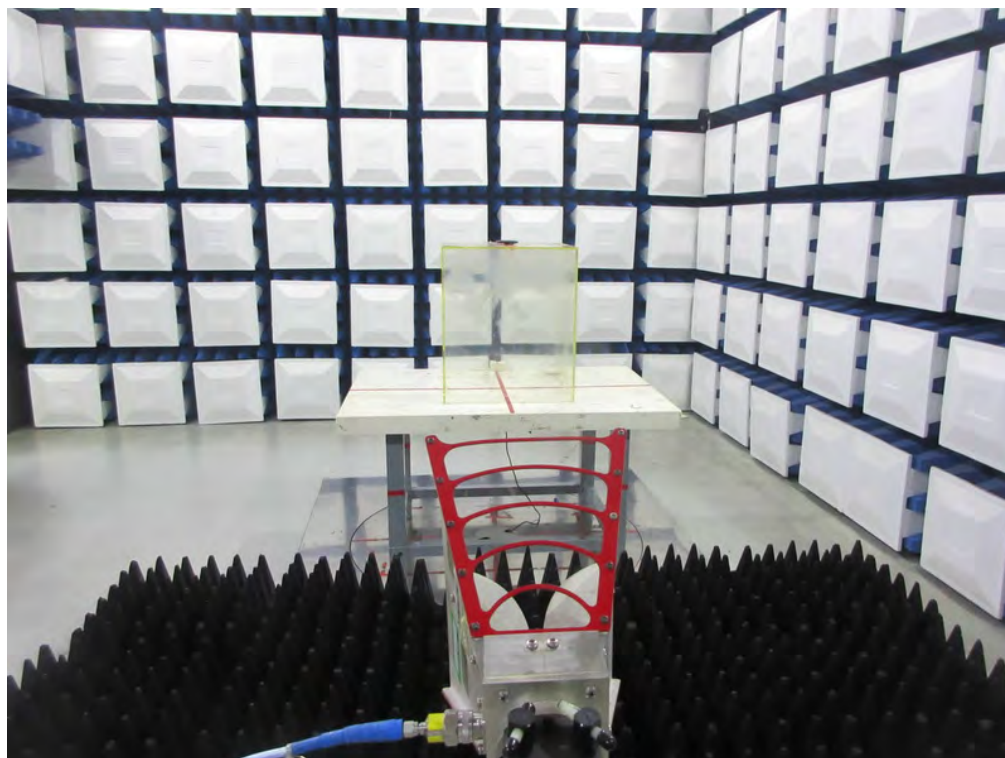
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

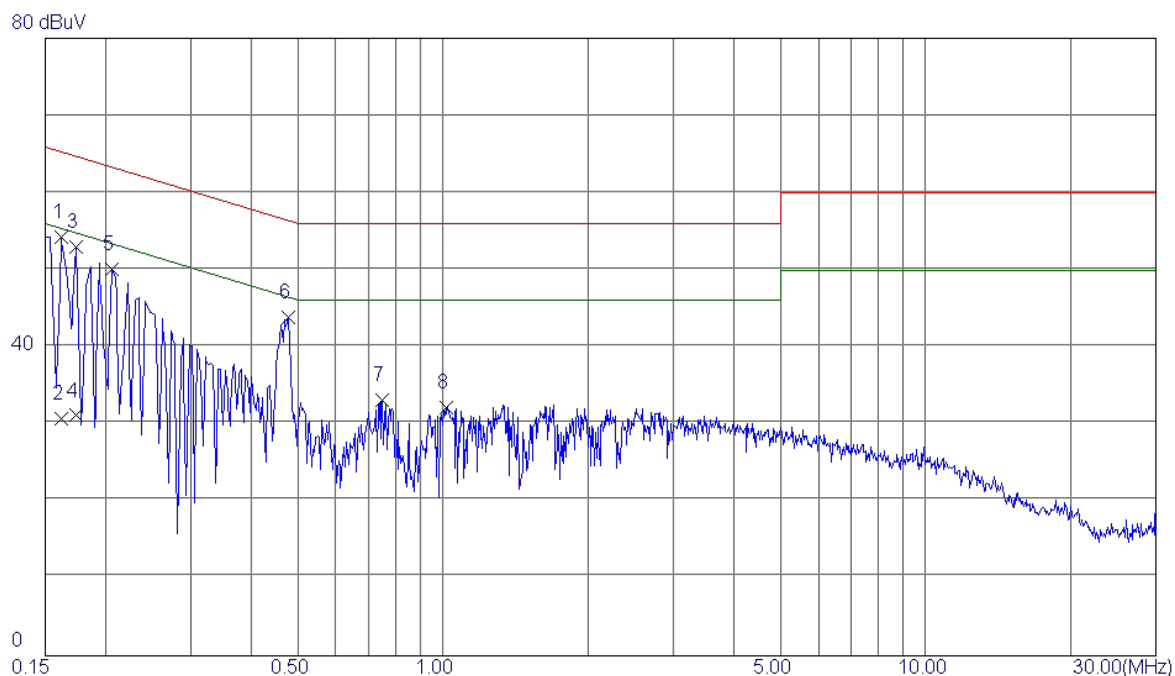
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode- Adapter: MI / GSCU2100S05V215S

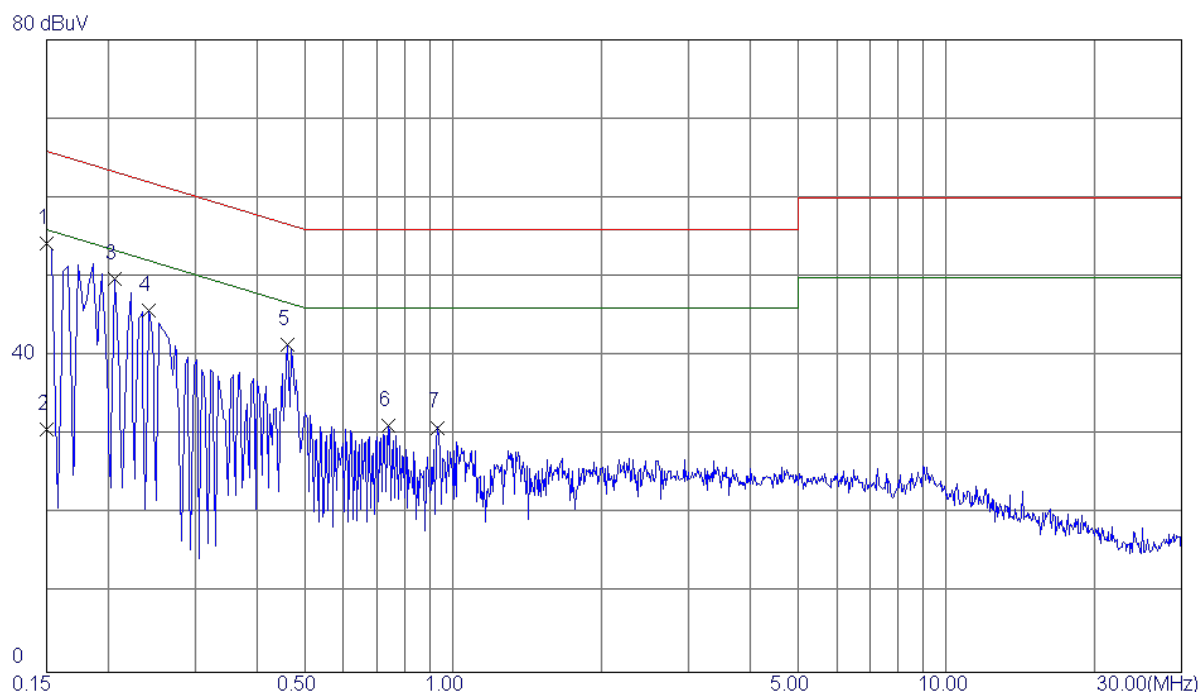
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1620	44.66	9.52	54.18	65.36	-11.18	Peak	
2	0.1620	21.20	9.52	30.72	55.36	-24.64	AVG	
3	0.1740	43.37	9.52	52.89	64.77	-11.88	Peak	
4	0.1740	21.60	9.52	31.12	54.77	-23.65	AVG	
5	0.2060	40.50	9.53	50.03	63.37	-13.34	Peak	
6	0.4780	34.22	9.62	43.84	56.37	-12.53	Peak	
7	0.7500	23.35	9.70	33.05	56.00	-22.95	Peak	
8	1.0140	22.47	9.76	32.23	56.00	-23.77	Peak	

Test Mode: TX Mode- Adapter: MI / GSCU2100S05V215S

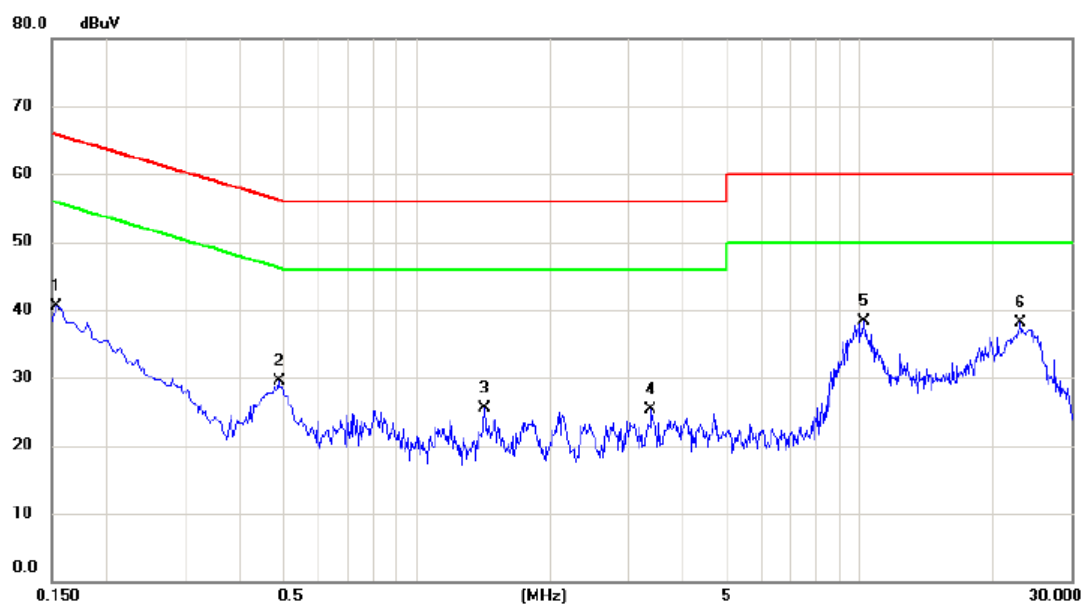
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1500	44.75	9.52	54.27	66.00	-11.73	Peak	
2	0.1500	21.20	9.52	30.72	56.00	-25.28	AVG	
3	0.2060	40.18	9.53	49.71	63.37	-13.66	Peak	
4	0.2420	36.25	9.53	45.78	62.03	-16.25	Peak	
5	0.4620	32.02	9.44	41.46	56.66	-15.20	Peak	
6	0.7380	21.74	9.49	31.23	56.00	-24.77	Peak	
7	0.9300	21.30	9.66	30.96	56.00	-25.04	Peak	

Test Mode: TX Mode- Adapter: MI / AY11BA-AF0522102

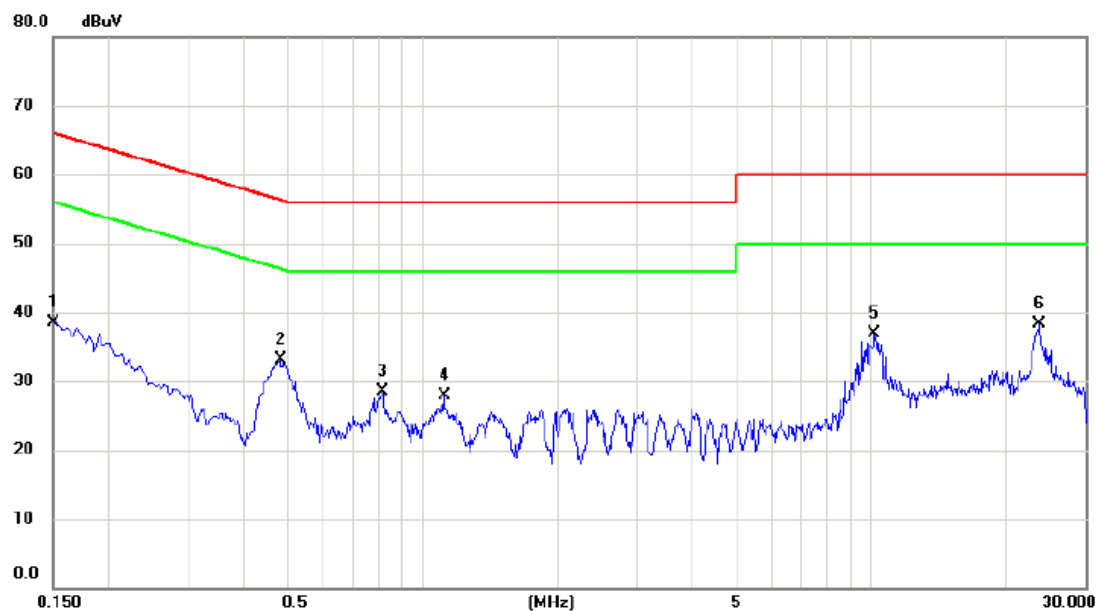
Line



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1540	30.84	9.68	40.52	65.78	-25.26	QP	
2	0.4890	19.73	9.69	29.42	56.18	-26.76	QP	
3	1.4254	15.68	9.73	25.41	56.00	-30.59	QP	
4	3.3814	15.40	9.83	25.23	56.00	-30.77	QP	
5 *	10.2332	28.27	9.95	38.22	60.00	-21.78	QP	
6	23.0181	28.06	9.95	38.01	60.00	-21.99	QP	

Test Mode: TX Mode- Adapter: MI / AY11BA-AF0522102

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	28.74	9.68	38.42	66.00	-27.58	QP	
2		0.4812	23.33	9.69	33.02	56.32	-23.30	QP	
3		0.8131	18.72	9.70	28.42	56.00	-27.58	QP	
4		1.1170	18.12	9.72	27.84	56.00	-28.16	QP	
5		10.1791	26.98	9.96	36.94	60.00	-23.06	QP	
6	*	23.7615	28.30	9.95	38.25	60.00	-21.75	QP	

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

Test Mode: TX Mode- Adapter: MI / GSCU2100S05V215S

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0092	0°	13.4	24.9840	38.3840	128.3285	-89.9445	AVG
0.0092	0°	14.28	24.9840	39.2640	148.3285	-109.0645	PEAK
0.028	0°	6.77	23.7933	30.5633	118.6611	-88.0977	AVG
0.028	0°	8.1	23.7933	31.8933	138.6611	-106.7677	PEAK
0.0361	0°	3.29	23.2803	26.5703	116.4541	-89.8837	AVG
0.0361	0°	5.54	23.2803	28.8203	136.4541	-107.6337	PEAK
0.0583	0°	1.29	22.2340	23.5240	112.2909	-88.7669	AVG
0.0583	0°	2.54	22.2340	24.7740	132.2909	-107.5169	PEAK
0.5092	0°	19.33	19.8294	39.1594	73.4665	-34.3070	QP
1.9525	0°	23.77	19.5048	43.2748	69.5400	-26.2652	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0121	90°	13.28	24.3000	37.5800	125.9485	-88.3685	AVG
0.0121	90°	14.8	24.3000	39.1000	145.9485	-106.8485	PEAK
0.0264	90°	7.29	23.8947	31.1847	119.1721	-87.9875	AVG
0.0264	90°	8.95	23.8947	32.8447	139.1721	-106.3275	PEAK
0.0435	90°	5.37	22.8117	28.1817	114.8344	-86.6528	AVG
0.0435	90°	6.36	22.8117	29.1717	134.8344	-105.6628	PEAK
0.0581	90°	1.54	22.2380	23.7780	112.3207	-88.5427	AVG
0.0581	90°	2.85	22.2380	25.0880	132.3207	-107.2327	PEAK
0.6219	90°	22.29	20.1901	42.4801	71.7298	-29.2497	QP
2.0545	90°	24.51	19.4673	43.9773	69.5400	-25.5627	QP

Test Mode: TX Mode- Adapter: MI / AY11BA-AF0522102

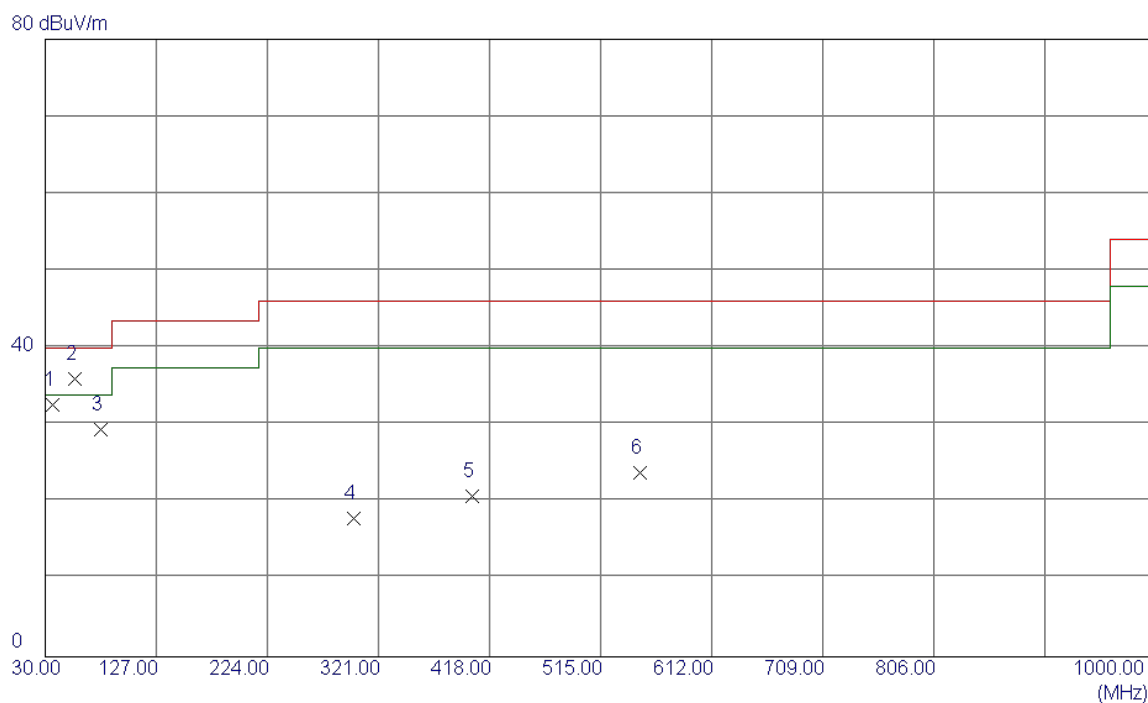
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0093	0°	13.25	24.98	38.23	128.23	-90.01	AVG
0.0093	0°	14.63	24.98	39.61	148.23	-108.63	PEAK
0.0281	0°	6.58	23.79	30.37	118.63	-88.26	AVG
0.0281	0°	8.07	23.79	31.86	138.63	-106.77	PEAK
0.0364	0°	3.38	23.26	26.64	116.38	-89.74	AVG
0.0364	0°	5.24	23.26	28.50	136.38	-107.88	PEAK
0.0582	0°	1.39	22.24	23.63	112.31	-88.68	AVG
0.0582	0°	2.56	22.24	24.80	132.31	-107.51	PEAK
0.5090	0°	19.84	19.83	39.67	73.47	-33.80	QP
1.9526	0°	23.41	19.50	42.91	69.54	-26.63	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0122	90°	13.24	24.30	37.54	125.88	-88.34	AVG
0.0122	90°	14.58	24.30	38.88	145.88	-107.00	PEAK
0.0264	90°	7.16	23.89	31.05	119.17	-88.12	AVG
0.0264	90°	8.73	23.89	32.62	139.17	-106.55	PEAK
0.0432	90°	5.49	22.83	28.32	114.89	-86.57	AVG
0.0432	90°	6.52	22.83	29.35	134.89	-105.54	PEAK
0.0581	90°	1.74	22.24	23.98	112.32	-88.34	AVG
0.0581	90°	2.91	22.24	25.15	132.32	-107.17	PEAK
0.6216	90°	22.17	20.19	42.36	71.73	-29.37	QP
2.0543	90°	23.84	19.47	43.31	69.54	-26.23	QP

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

Test Mode: TX 2402MHz _CH00_1Mbps- Adapter: MI / GSCU2100S05V215S

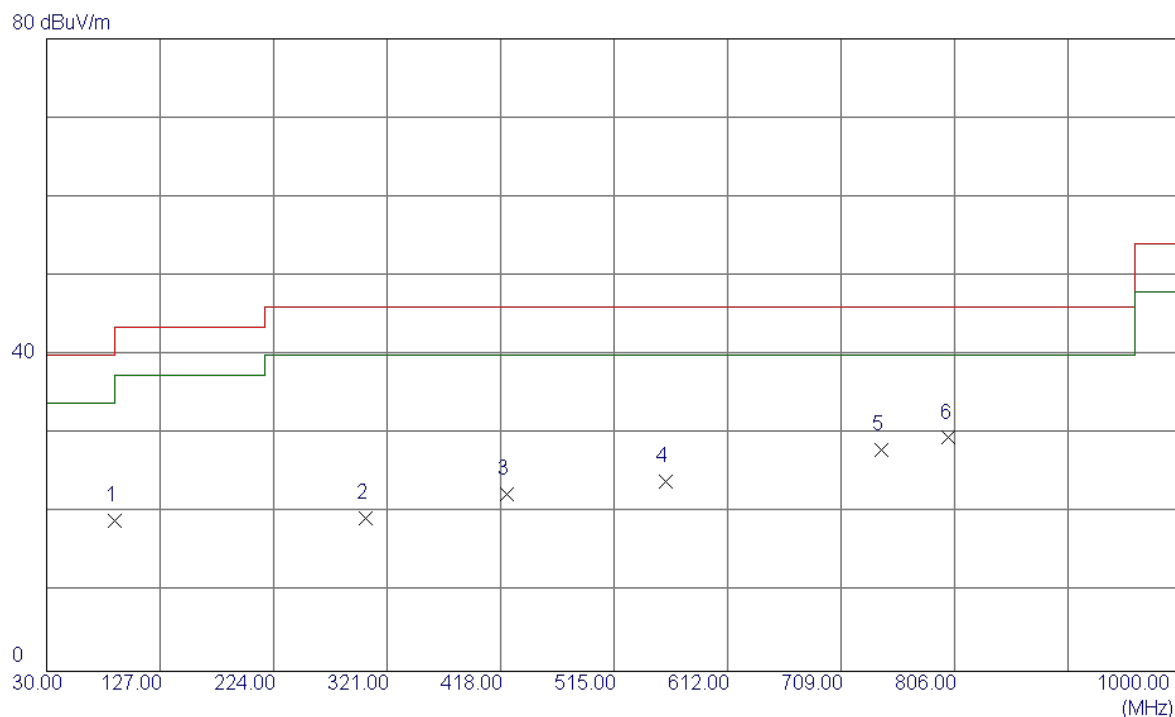
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	36.7900	46.53	-13.85	32.68	40.00	-7.32	Peak	
2 *	56.1900	49.21	-13.26	35.95	40.00	-4.05	Peak	
3	78.5000	45.54	-16.14	29.40	40.00	-10.60	Peak	
4	299.6600	28.36	-10.50	17.86	46.00	-28.14	Peak	
5	402.4800	29.09	-8.29	20.80	46.00	-25.20	Peak	
6	549.9200	29.14	-5.28	23.86	46.00	-22.14	Peak	

Test Mode:	TX 2402MHz _CH00_ 1Mbps- Adapter: MI / GSCU2100S05V215S
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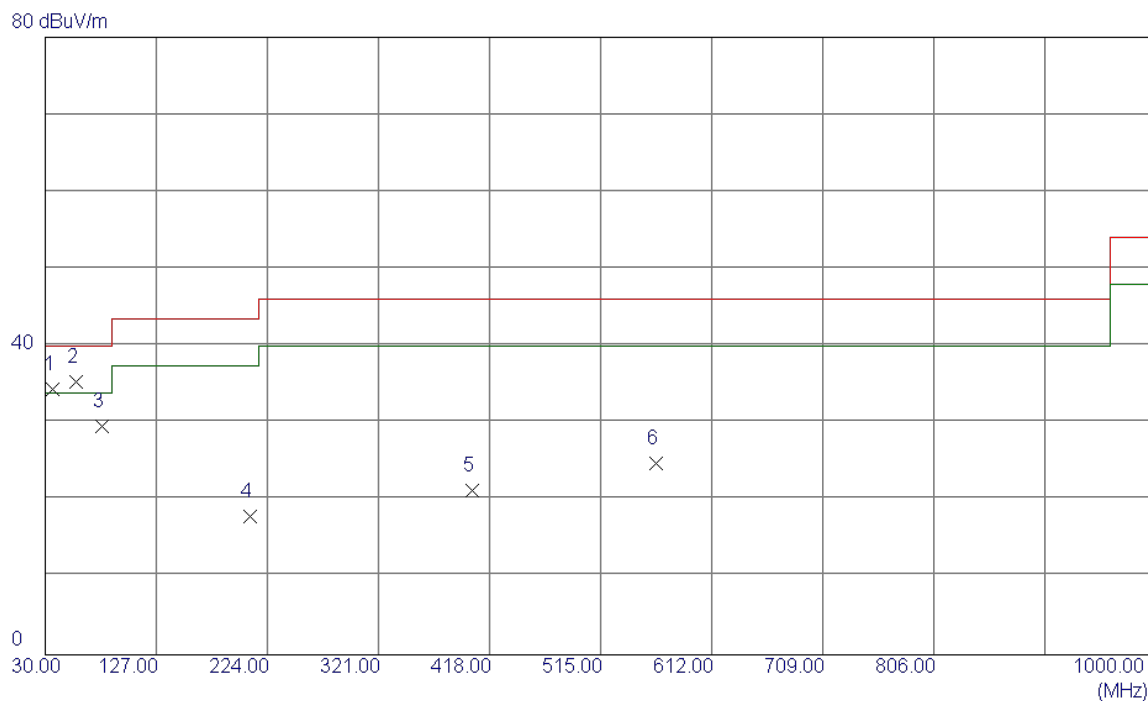
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	88.2000	36.48	-17.39	19.09	43.50	-24.41	Peak	
2	302.5700	29.85	-10.52	19.33	46.00	-26.67	Peak	
3	422.8500	30.82	-8.41	22.41	46.00	-23.59	Peak	
4	559.6200	29.81	-5.77	24.04	46.00	-21.96	Peak	
5	742.9500	30.92	-2.94	27.98	46.00	-18.02	Peak	
6 *	801.1500	30.30	-0.78	29.52	46.00	-16.48	Peak	

Test Mode: TX 2441MHz _CH39_ 1Mbps- Adapter: MI / GSCU2100S05V215S

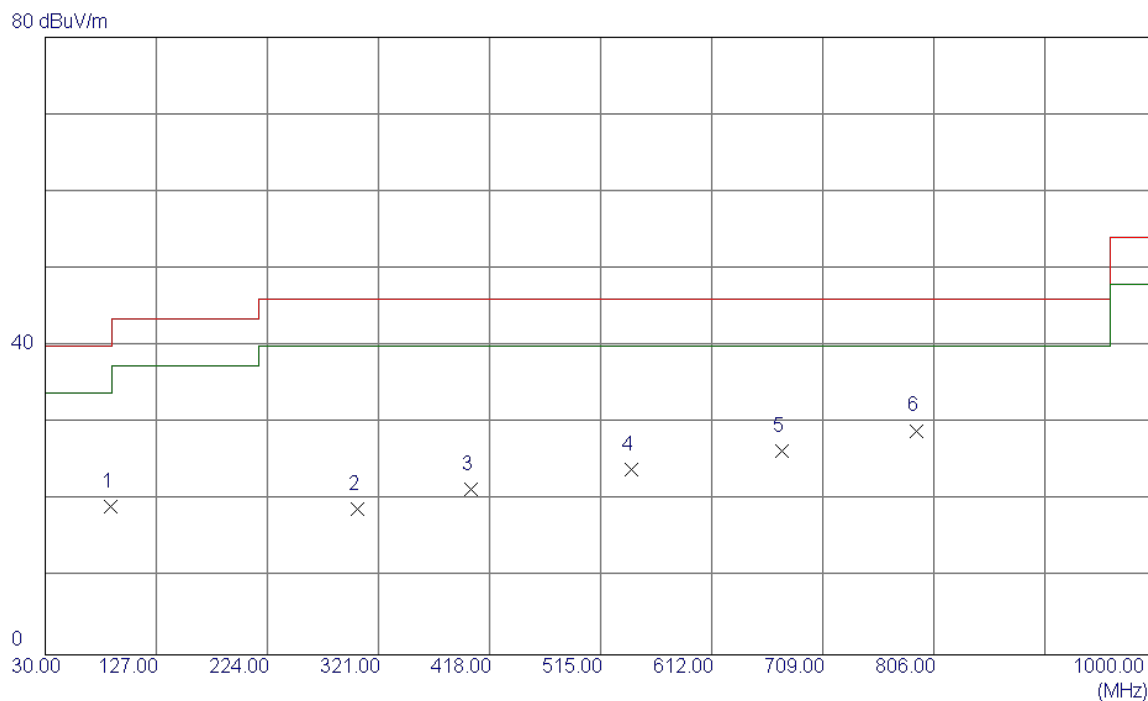
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	36.7900	48.19	-13.85	34.34	40.00	-5.66	Peak	
2 *	57.1600	48.92	-13.55	35.37	40.00	-4.63	Peak	
3	79.4700	45.69	-16.04	29.65	40.00	-10.35	Peak	
4	208.4800	32.73	-14.74	17.99	43.50	-25.51	Peak	
5	402.4800	29.54	-8.29	21.25	46.00	-24.75	Peak	
6	563.5000	30.73	-5.98	24.75	46.00	-21.25	Peak	

Test Mode: TX 2441MHz _CH39_ 1Mbps- Adapter: MI / GSCU2100S05V215S

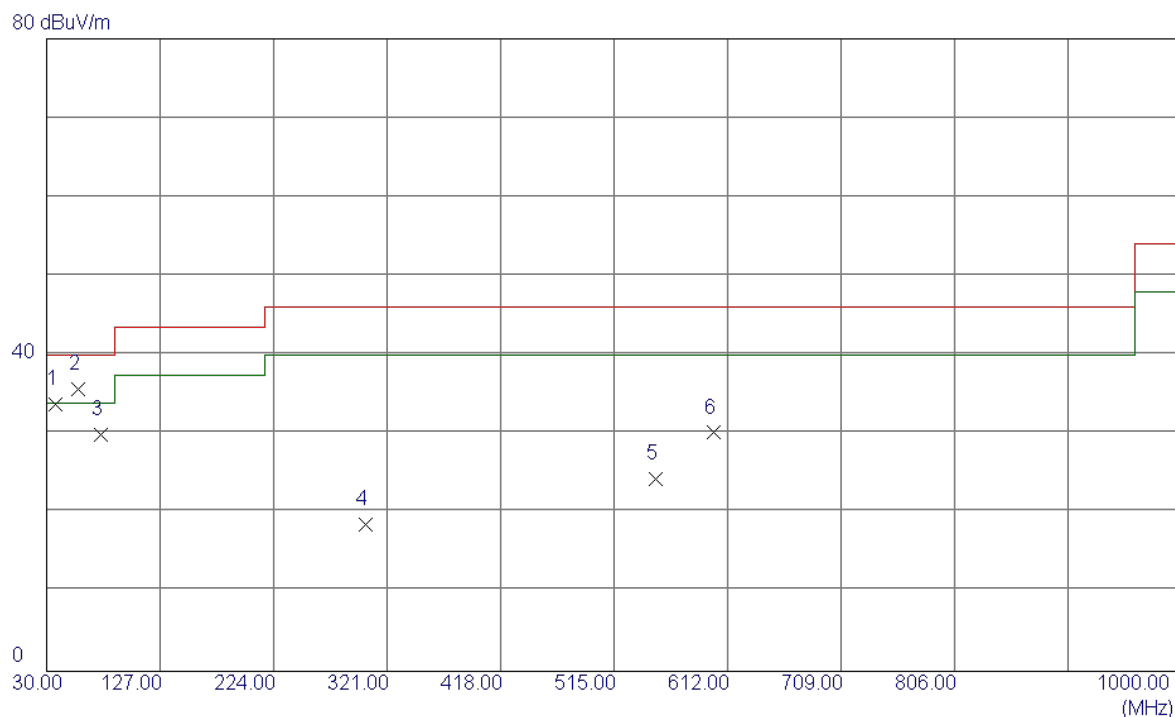
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	87.2300	36.56	-17.38	19.18	40.00	-20.82	Peak	
2	302.5700	29.42	-10.52	18.90	46.00	-27.10	Peak	
3	401.5100	29.67	-8.28	21.39	46.00	-24.61	Peak	
4	542.1599	30.06	-6.08	23.98	46.00	-22.02	Peak	
5	673.1100	30.47	-4.10	26.37	46.00	-19.63	Peak	
6 *	790.4800	30.20	-1.16	29.04	46.00	-16.96	Peak	

Test Mode: TX 2480MHz _CH78_ 1Mbps- Adapter: MI / GSCU2100S05V215S

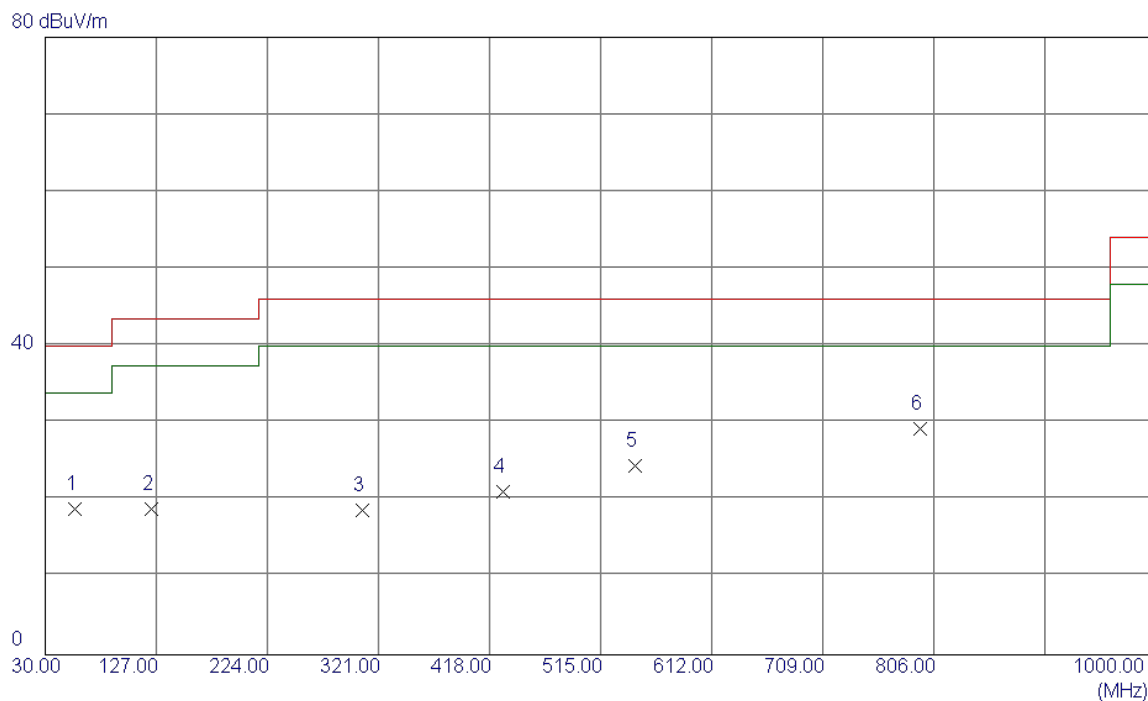
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	37.7599	47.80	-14.04	33.76	40.00	-6.24	Peak	
2 *	57.1600	49.24	-13.55	35.69	40.00	-4.31	Peak	
3	76.5600	46.28	-16.35	29.93	40.00	-10.07	Peak	
4	302.5700	29.08	-10.52	18.56	46.00	-27.44	Peak	
5	550.8900	29.70	-5.32	24.38	46.00	-21.62	Peak	
6	600.3600	38.01	-7.85	30.16	46.00	-15.84	Peak	

Test Mode: TX 2480MHz _CH78_ 1Mbps- Adapter: MI / GSCU2100S05V215S

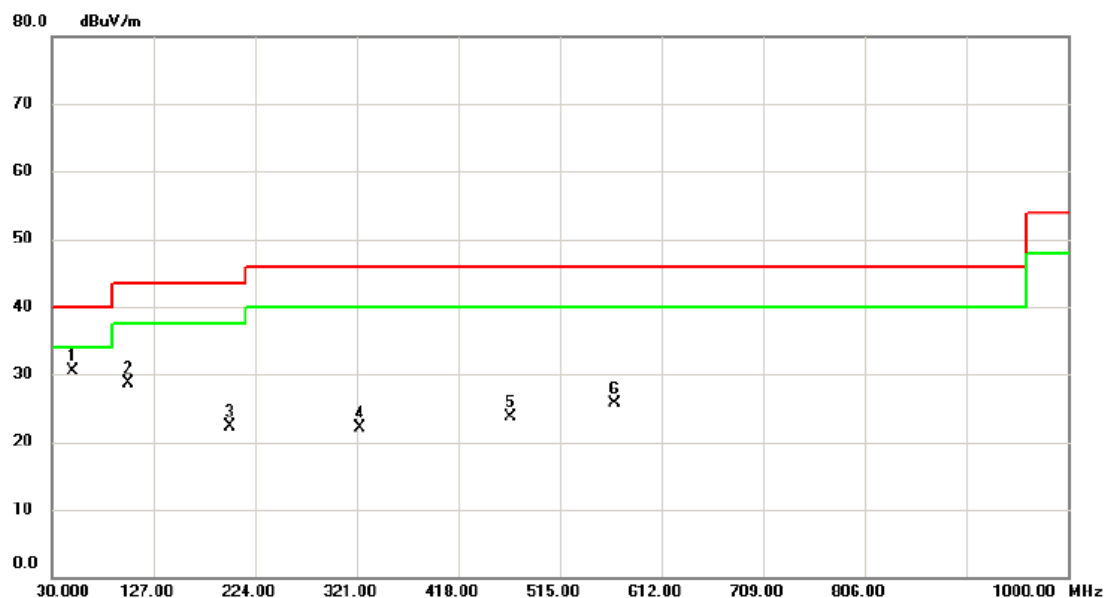
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	56.1900	32.18	-13.26	18.92	40.00	-21.08	Peak	
2	123.1200	32.00	-13.11	18.89	43.50	-24.61	Peak	
3	307.4200	29.33	-10.63	18.70	46.00	-27.30	Peak	
4	429.6400	29.61	-8.45	21.16	46.00	-24.84	Peak	
5	545.0700	30.30	-5.78	24.52	46.00	-21.48	Peak	
6 *	794.3600	30.22	-0.99	29.23	46.00	-16.77	Peak	

Test Mode:	TX 2402MHz _CH00_ 1Mbps- Adapter: MI / AY11BA-AF0522102
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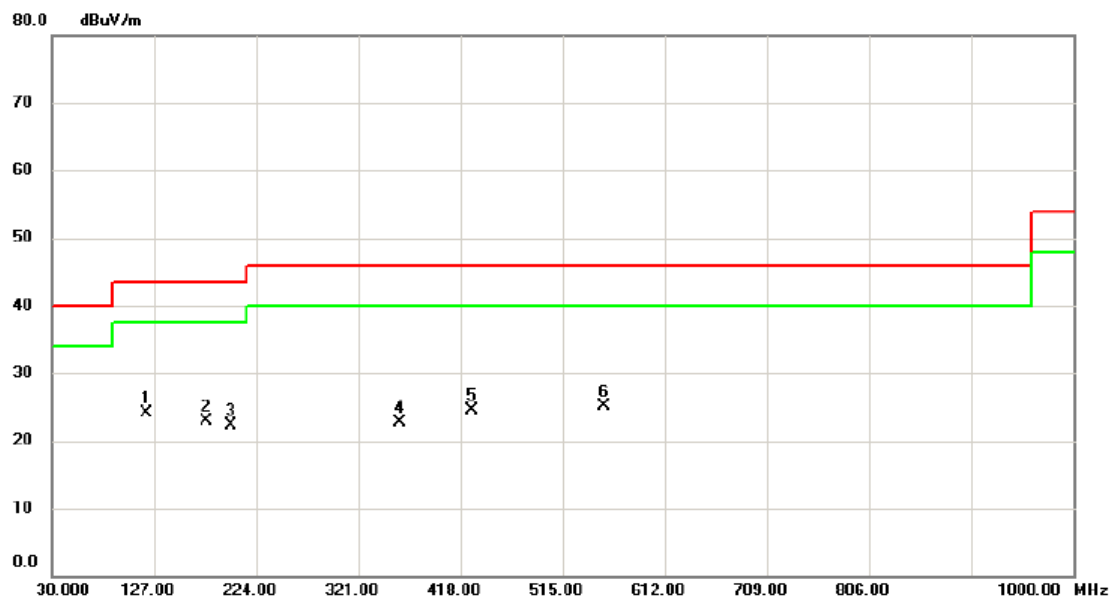
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	49.5000	42.55	-12.07	30.48	40.00	-9.52	peak	
2		102.5000	42.98	-14.31	28.67	43.50	-14.83	peak	
3		199.5000	35.97	-13.59	22.38	43.50	-21.12	peak	
4		324.0000	32.38	-10.35	22.03	46.00	-23.97	peak	
5		467.5000	30.97	-7.31	23.66	46.00	-22.34	peak	
6		568.0000	30.46	-4.80	25.66	46.00	-20.34	peak	

Test Mode: TX 2402MHz _CH00_ 1Mbps- Adapter: MI / AY11BA-AF0522102

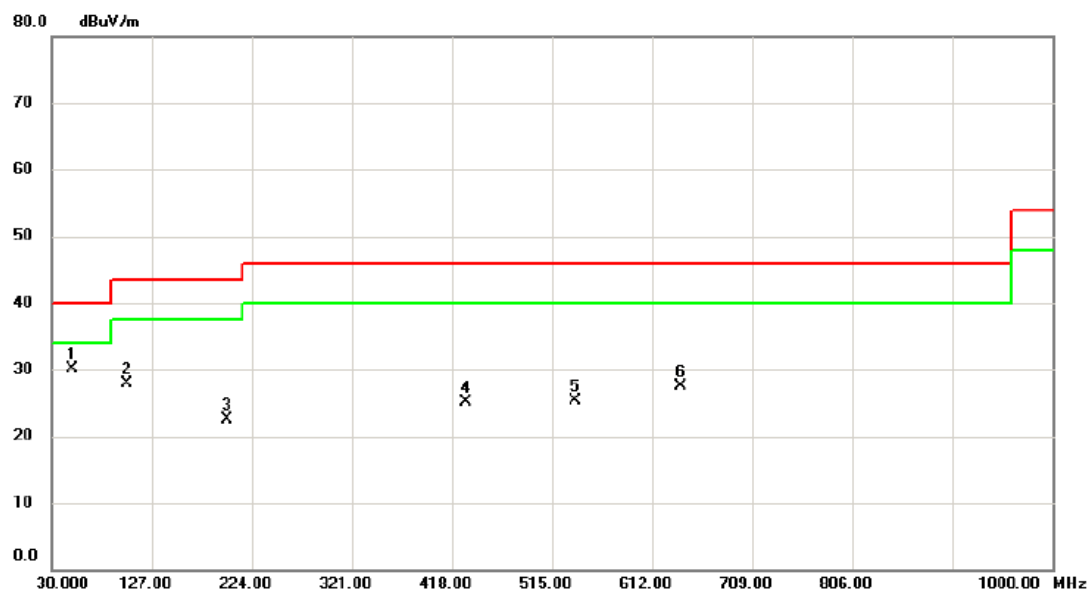
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	120.5000	36.49	-12.48	24.01	43.50	-19.49	peak	
2		177.0000	34.52	-11.70	22.82	43.50	-20.68	peak	
3		200.0000	35.93	-13.62	22.31	43.50	-21.19	peak	
4		360.0000	32.71	-10.07	22.64	46.00	-23.36	peak	
5		429.0000	31.70	-7.13	24.57	46.00	-21.43	peak	
6		554.5000	29.83	-4.68	25.15	46.00	-20.85	peak	

Test Mode: TX 2441MHz _CH39_ 1Mbps- Adapter: MI / AY11BA-AF0522102

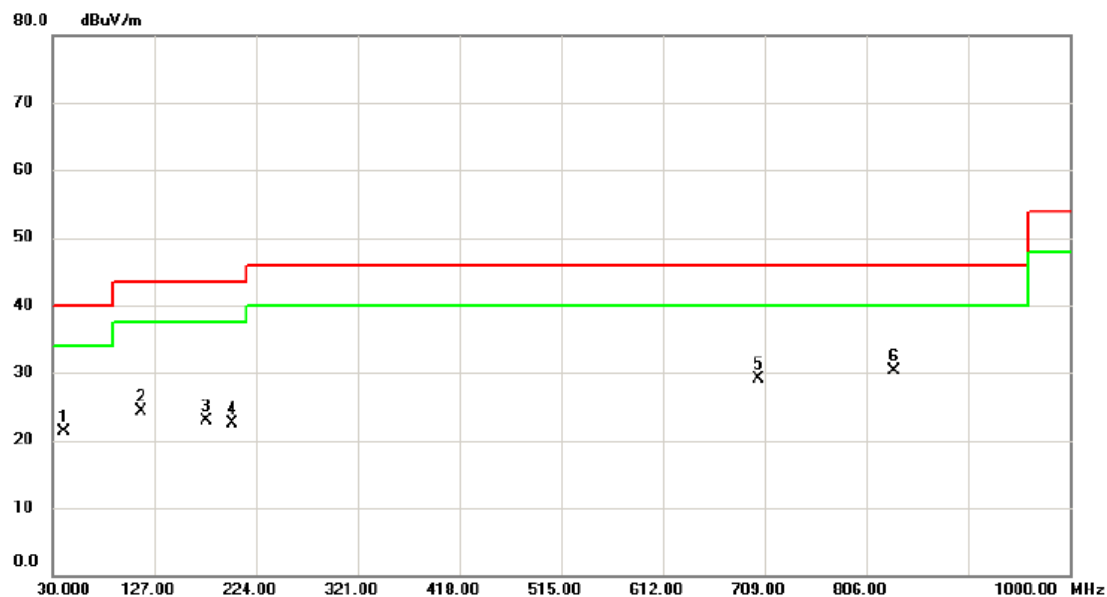
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	50.0000	42.13	-11.97	30.16	40.00	-9.84	peak	
2		102.5000	42.17	-14.31	27.86	43.50	-15.64	peak	
3		199.5000	36.18	-13.59	22.59	43.50	-20.91	peak	
4		432.0000	32.17	-7.11	25.06	46.00	-20.94	peak	
5		538.0000	30.74	-5.39	25.35	46.00	-20.65	peak	
6		639.5000	30.10	-2.56	27.54	46.00	-18.46	peak	

Test Mode: TX 2441MHz _CH39_ 1Mbps- Adapter: MI / AY11BA-AF0522102

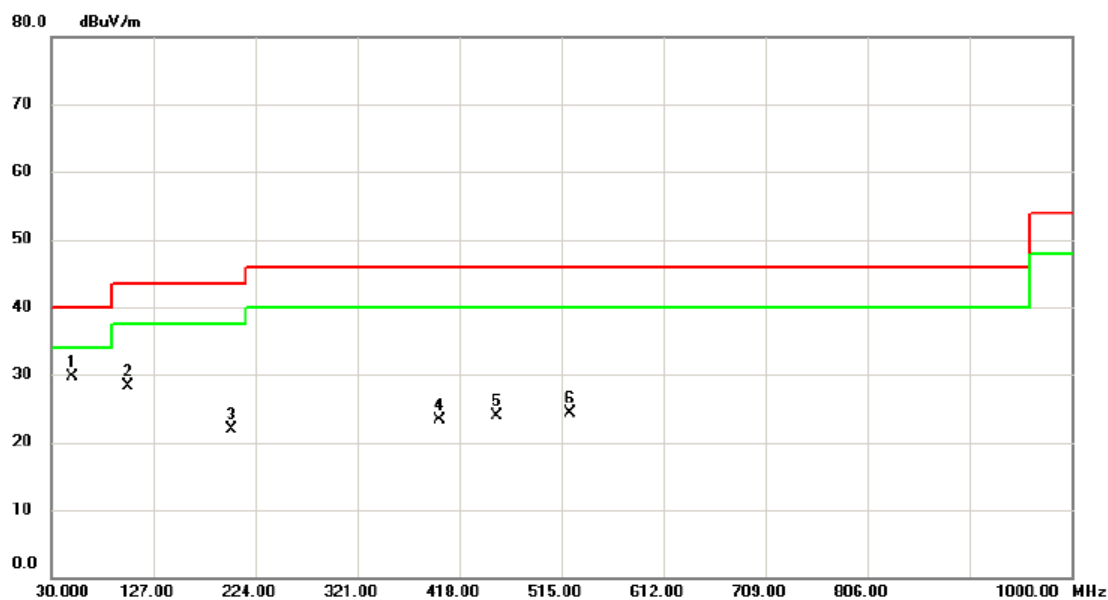
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		41.0000	33.49	-12.25	21.24	40.00	-18.76	peak	
2		114.5000	37.61	-13.23	24.38	43.50	-19.12	peak	
3		177.0000	34.63	-11.70	22.93	43.50	-20.57	peak	
4		201.5000	36.28	-13.68	22.60	43.50	-20.90	peak	
5		703.5000	30.00	-0.91	29.09	46.00	-16.91	peak	
6	*	832.0000	30.09	0.12	30.21	46.00	-15.79	peak	

Test Mode: TX 2480MHz _CH78_1Mbps- Adapter: MI / AY11BA-AF0522102

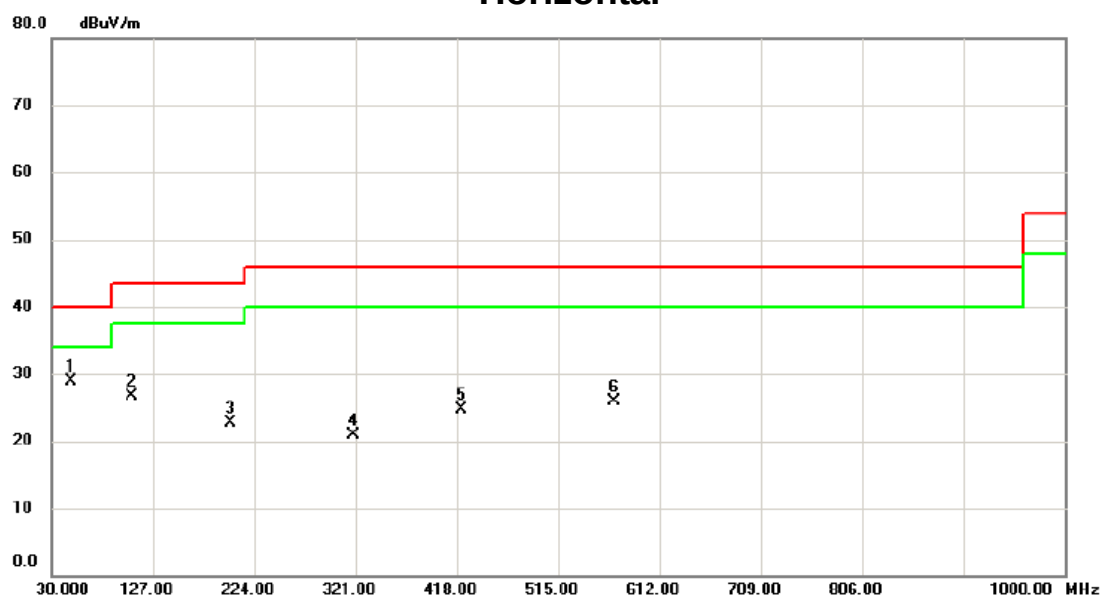
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	49.5000	41.86	-12.07	29.79	40.00	-10.21	peak	
2		103.5000	42.58	-14.24	28.34	43.50	-15.16	peak	
3		202.0000	35.68	-13.71	21.97	43.50	-21.53	peak	
4		399.5000	30.64	-7.24	23.40	46.00	-22.60	peak	
5		454.0000	31.02	-7.11	23.91	46.00	-22.09	peak	
6		524.0000	30.48	-6.27	24.21	46.00	-21.79	peak	

Test Mode: TX 2480MHz _CH78_1Mbps- Adapter: MI / AY11BA-AF0522102

Horizontal

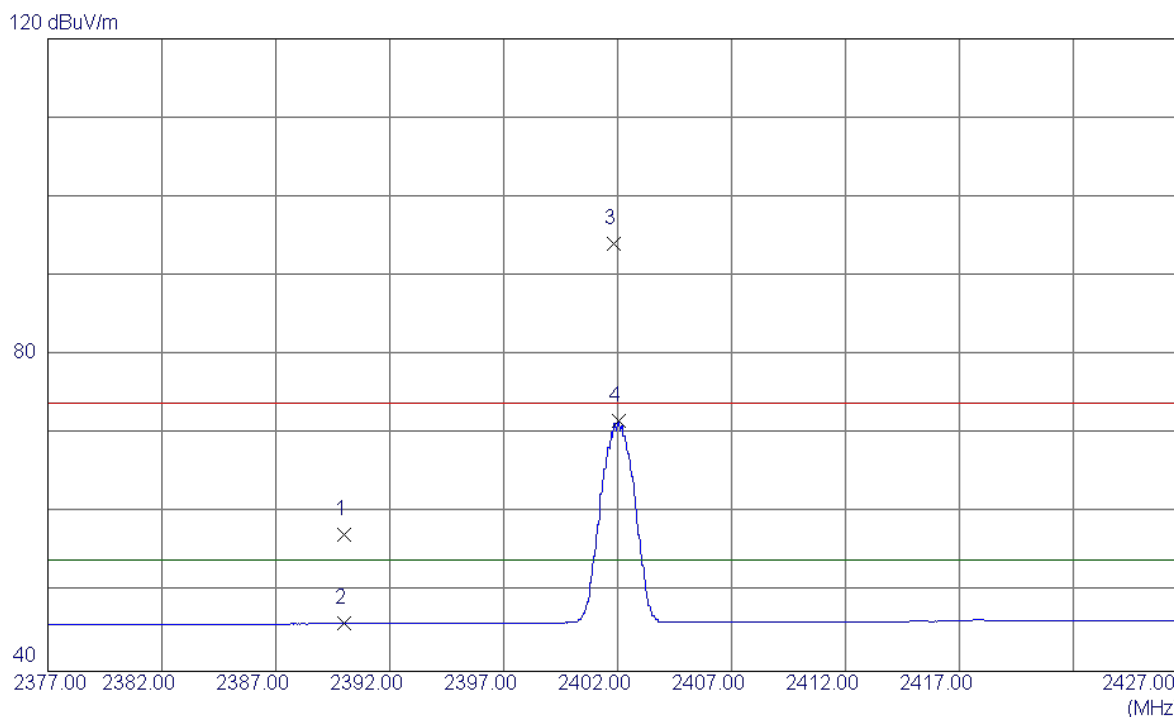


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	49.0000	41.07	-12.18	28.89	40.00	-11.11	peak	
2		107.0000	40.70	-14.00	26.70	43.50	-16.80	peak	
3		201.0000	36.28	-13.67	22.61	43.50	-20.89	peak	
4		319.5000	31.21	-10.28	20.93	46.00	-25.07	peak	
5		422.0000	31.83	-7.14	24.69	46.00	-21.31	peak	
6		569.0000	30.73	-4.82	25.91	46.00	-20.09	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

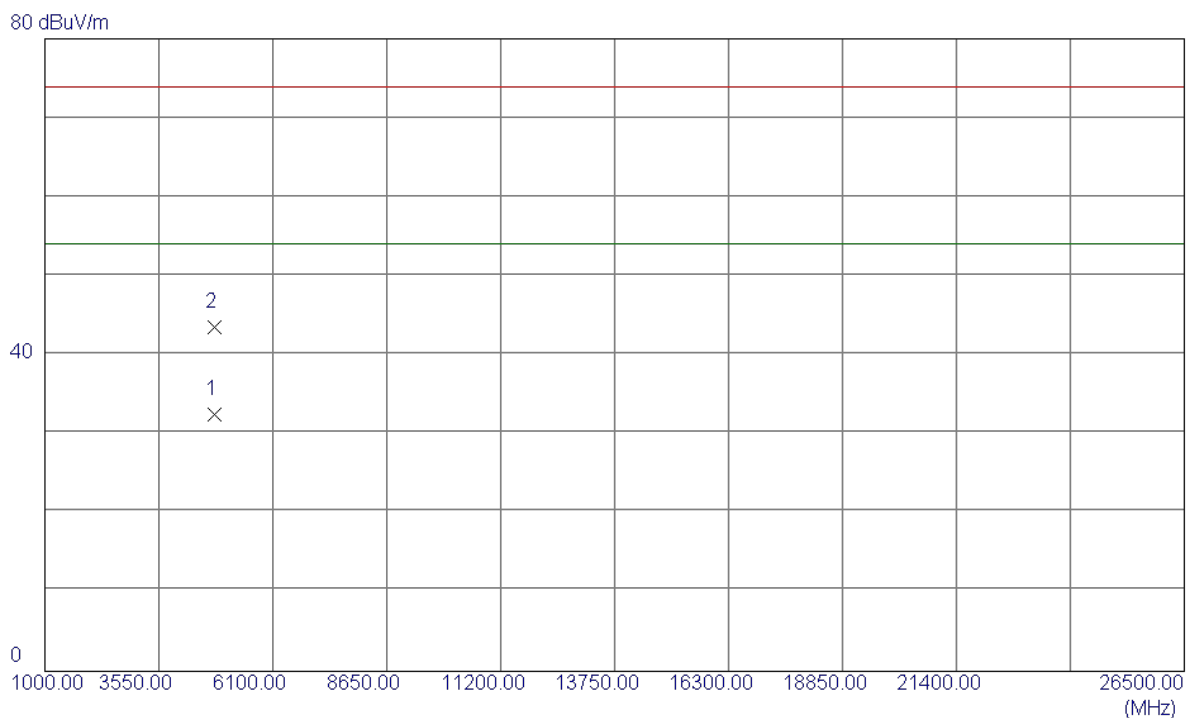
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.51	32.77	57.28	74.00	-16.72	Peak	
2	2390.0000	13.26	32.77	46.03	54.00	-7.97	AVG	
3 *	2401.8500	61.19	32.82	94.01	74.00	20.01	Peak	NO LIMIT
4	2402.0500	38.80	32.82	71.62	54.00	17.62	AVG	NO LIMIT

Test Mode :	TX 2402MHz _CH00_1Mbps
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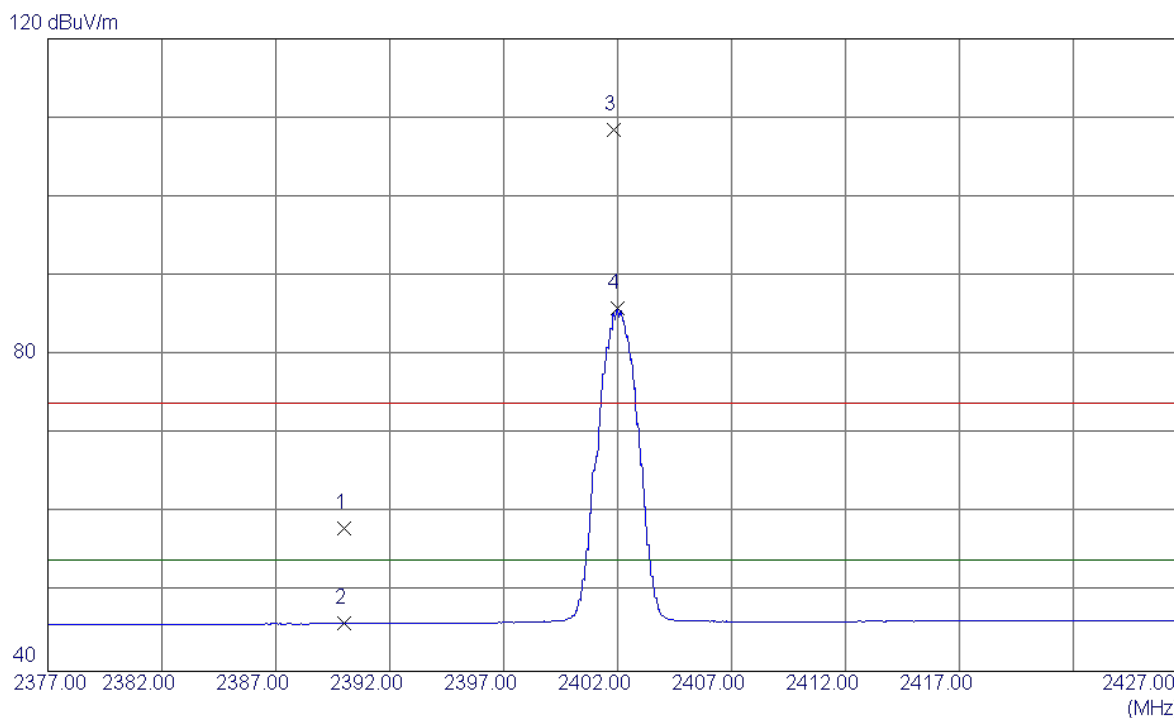
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4803.9600	27.92	4.62	32.54	54.00	-21.46	AVG	
2	4804.1800	38.85	4.62	43.47	74.00	-30.53	Peak	

Test Mode : TX 2402MHz _CH00_1Mbps

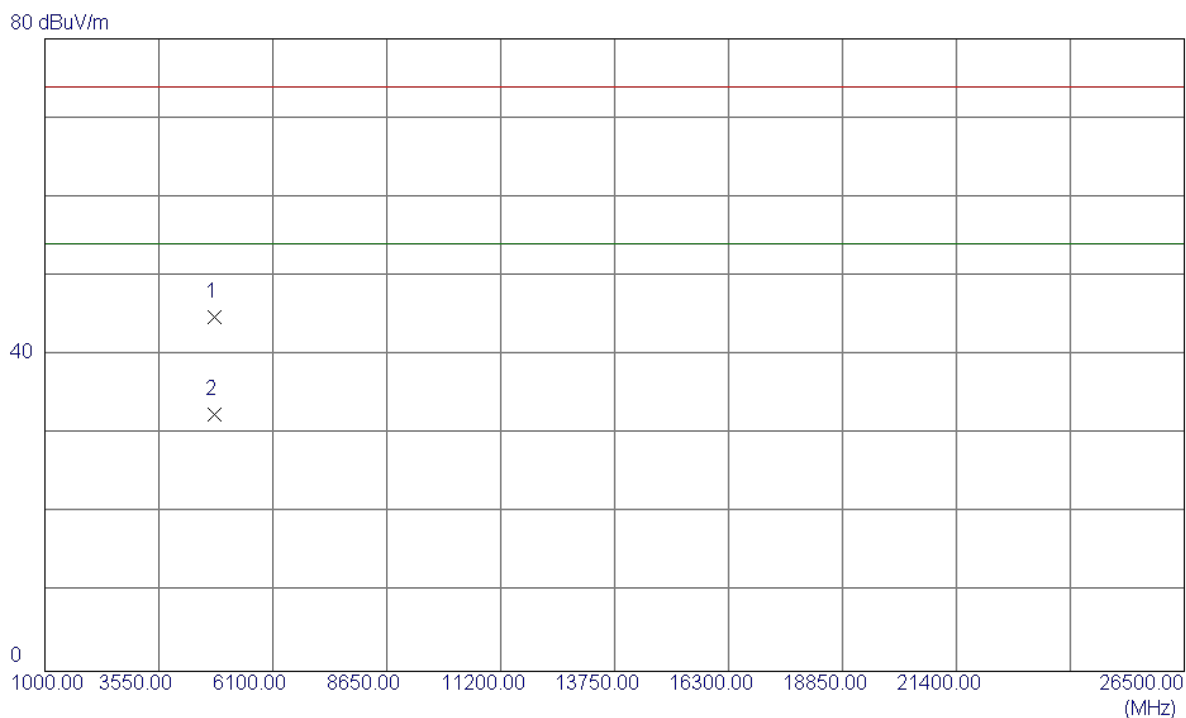
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	25.28	32.77	58.05	74.00	-15.95	Peak	
2	2390.0000	13.27	32.77	46.04	54.00	-7.96	AVG	
3 *	2401.8500	75.71	32.82	108.53	74.00	34.53	Peak	NO LIMIT
4	2402.0000	53.03	32.82	85.85	54.00	31.85	AVG	NO LIMIT

Test Mode :	TX 2402MHz _CH00_1Mbps
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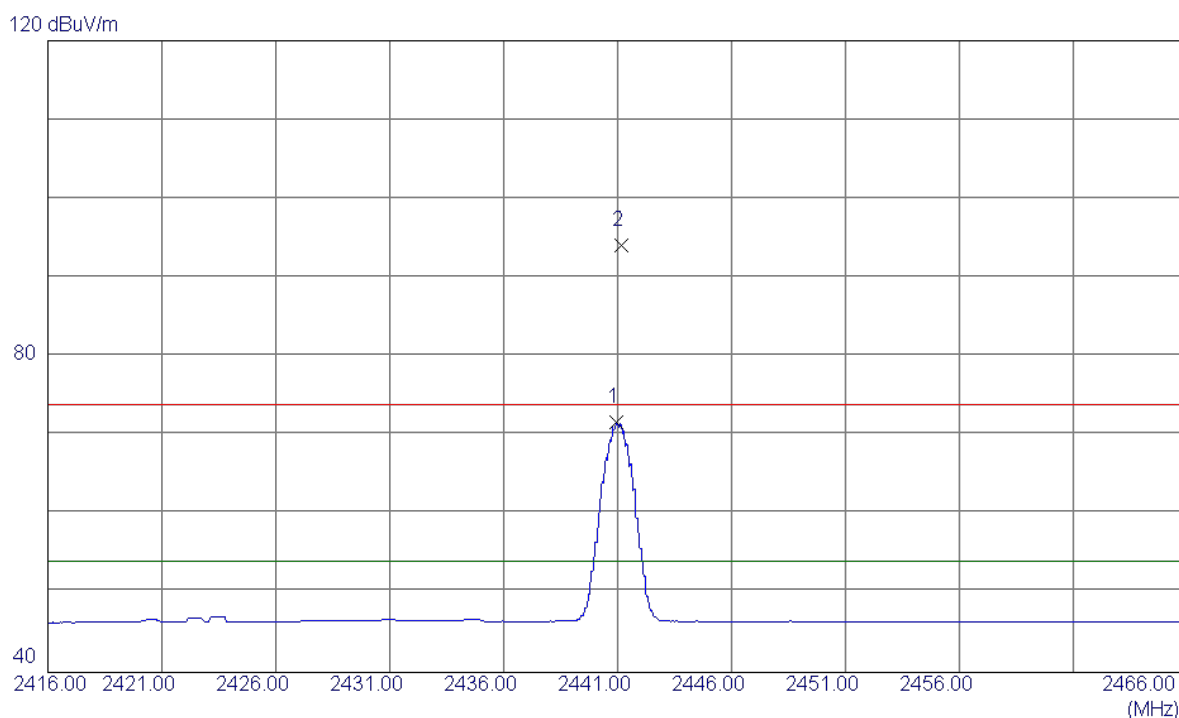
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.8500	40.13	4.61	44.74	74.00	-29.26	Peak	
2 *	4804.0800	27.85	4.62	32.47	54.00	-21.53	AVG	

Test Mode :	TX 2441MHz _CH39_1Mbps
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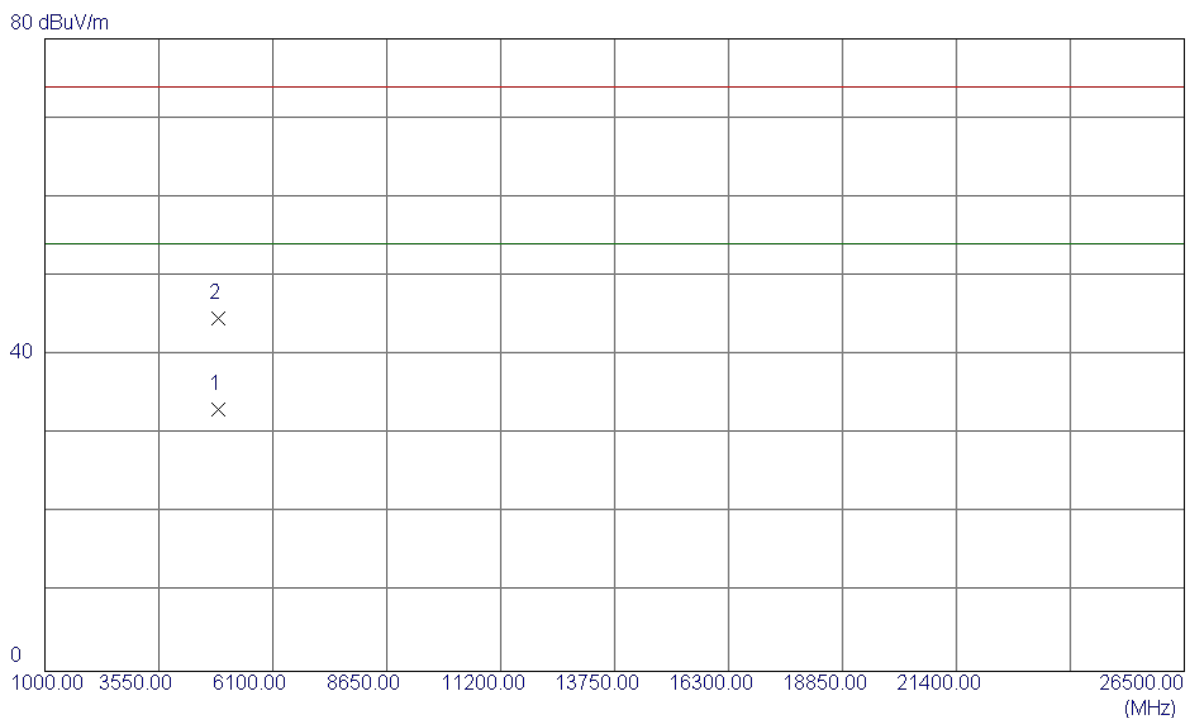
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2440.9500	38.71	32.98	71.69	54.00	17.69	AVG	NO LIMIT
2 *	2441.1500	61.10	32.98	94.08	74.00	20.08	Peak	NO LIMIT

Test Mode :	TX 2441MHz _CH39_1Mbps
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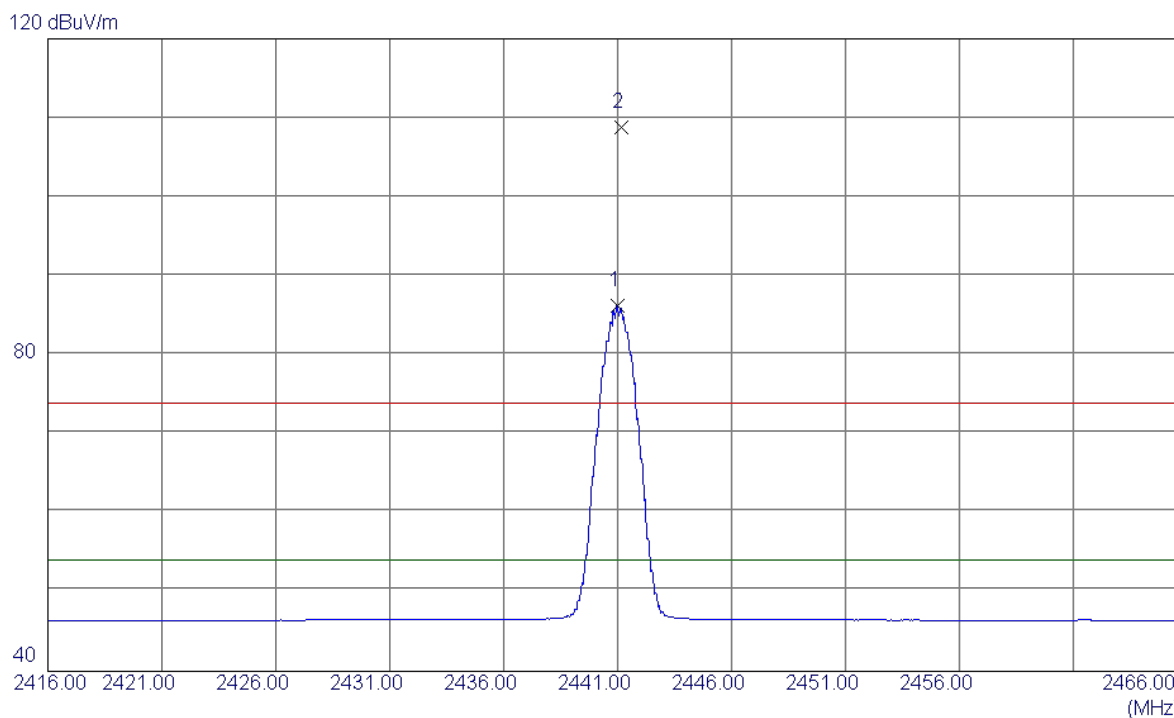
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4881.9350	28.15	4.92	33.07	54.00	-20.93	AVG	
2	4882.0450	39.70	4.92	44.62	74.00	-29.38	Peak	

Test Mode : TX 2441MHz _CH39_1Mbps

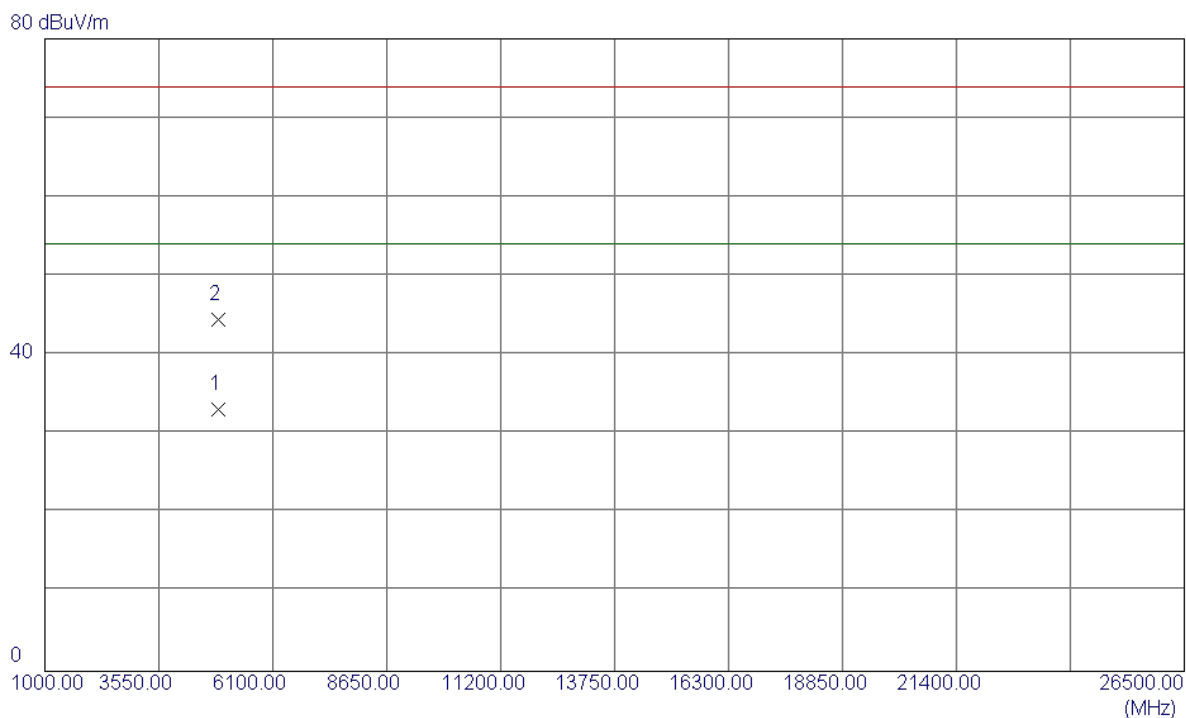
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.0000	53.20	32.98	86.18	54.00	32.18	AVG	NO LIMIT
2 *	2441.1500	75.82	32.98	108.80	74.00	34.80	Peak	NO LIMIT

Test Mode :	TX 2441MHz _CH39_1Mbps
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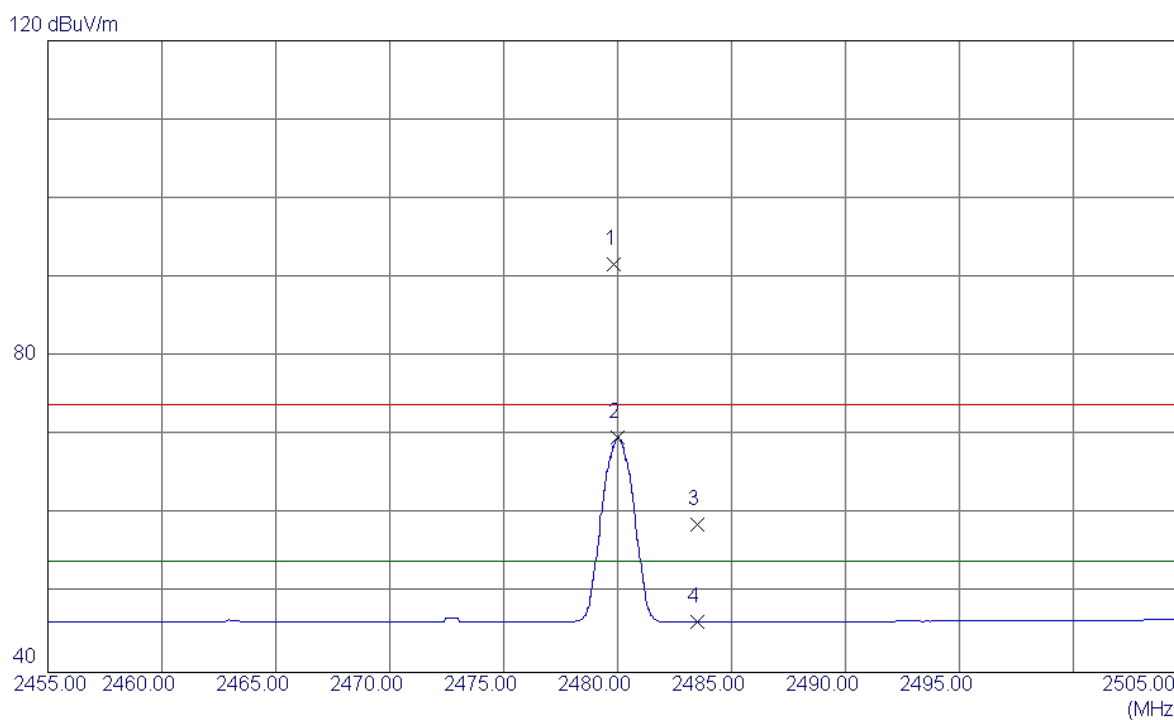
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4881.9400	28.18	4.92	33.10	54.00	-20.90	AVG	
2	4881.9550	39.54	4.92	44.46	74.00	-29.54	Peak	

Test Mode : TX 2480MHz _CH78_1Mbps

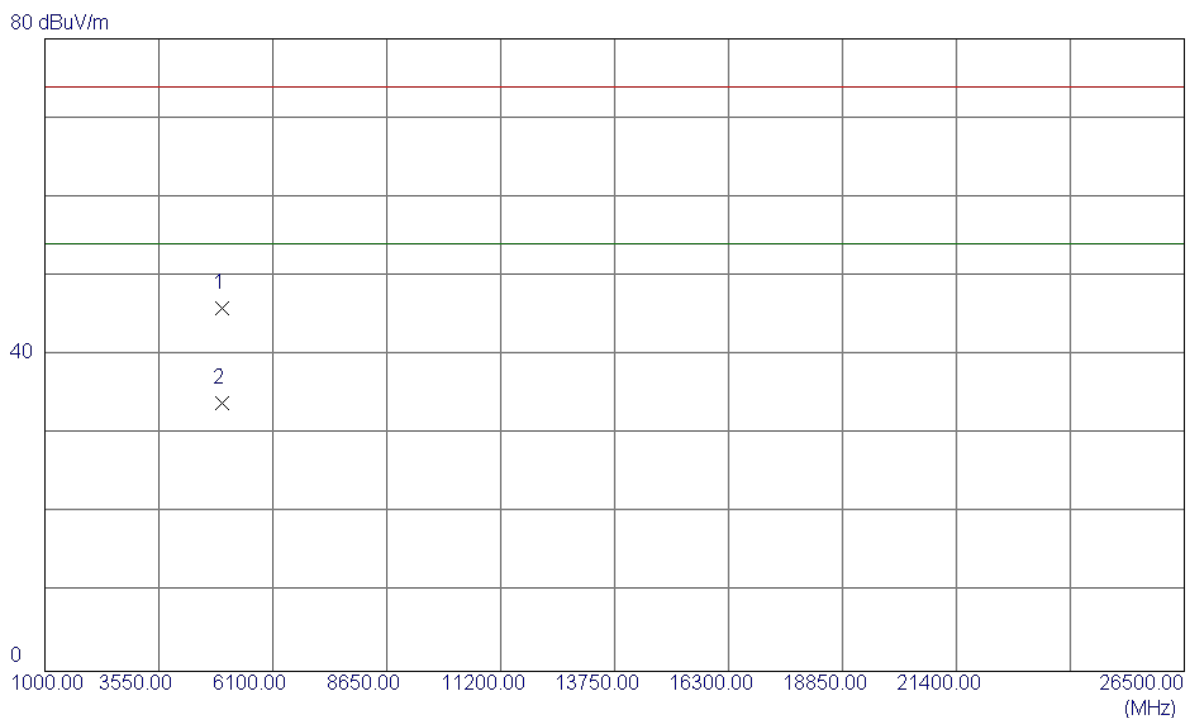
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2479.8500	58.48	33.14	91.62	74.00	17.62	Peak	NO LIMIT
2	2480.0000	36.61	33.14	69.75	54.00	15.75	AVG	NO LIMIT
3	2483.5000	25.62	33.15	58.77	74.00	-15.23	Peak	
4	2483.5000	13.25	33.15	46.40	54.00	-7.60	AVG	

Test Mode :	TX 2480MHz _CH78_1Mbps
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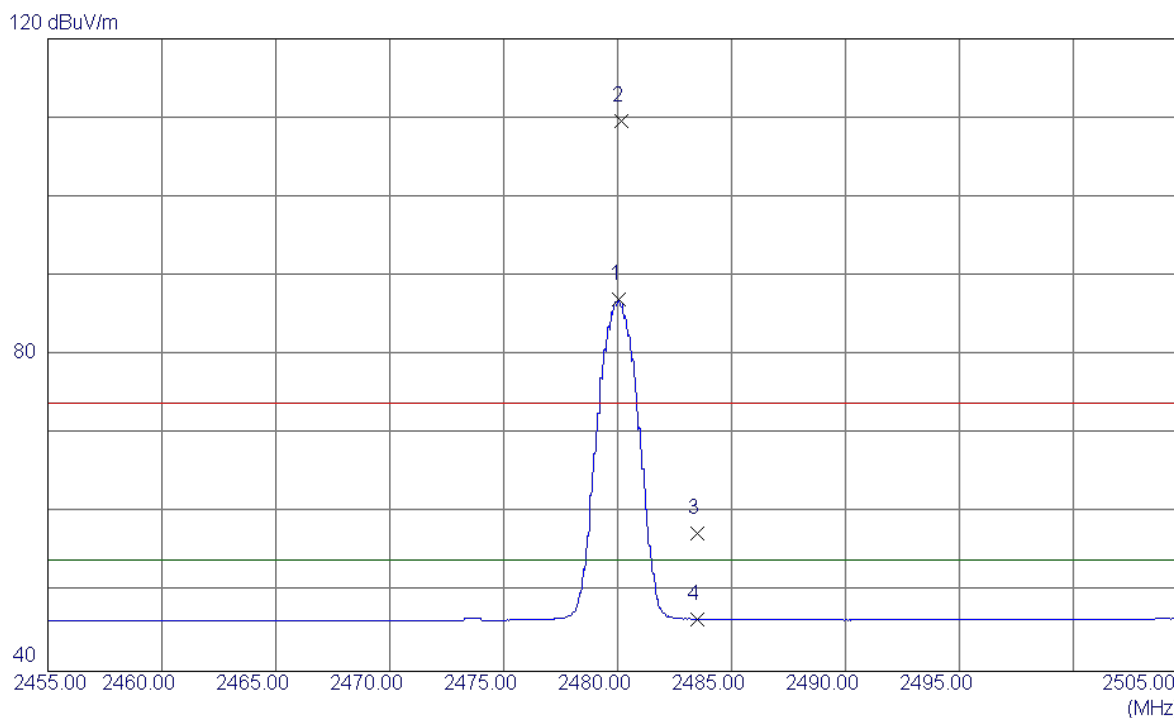
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959.9800	40.76	5.22	45.98	74.00	-28.02	Peak	
2 *	4960.0299	28.68	5.22	33.90	54.00	-20.10	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

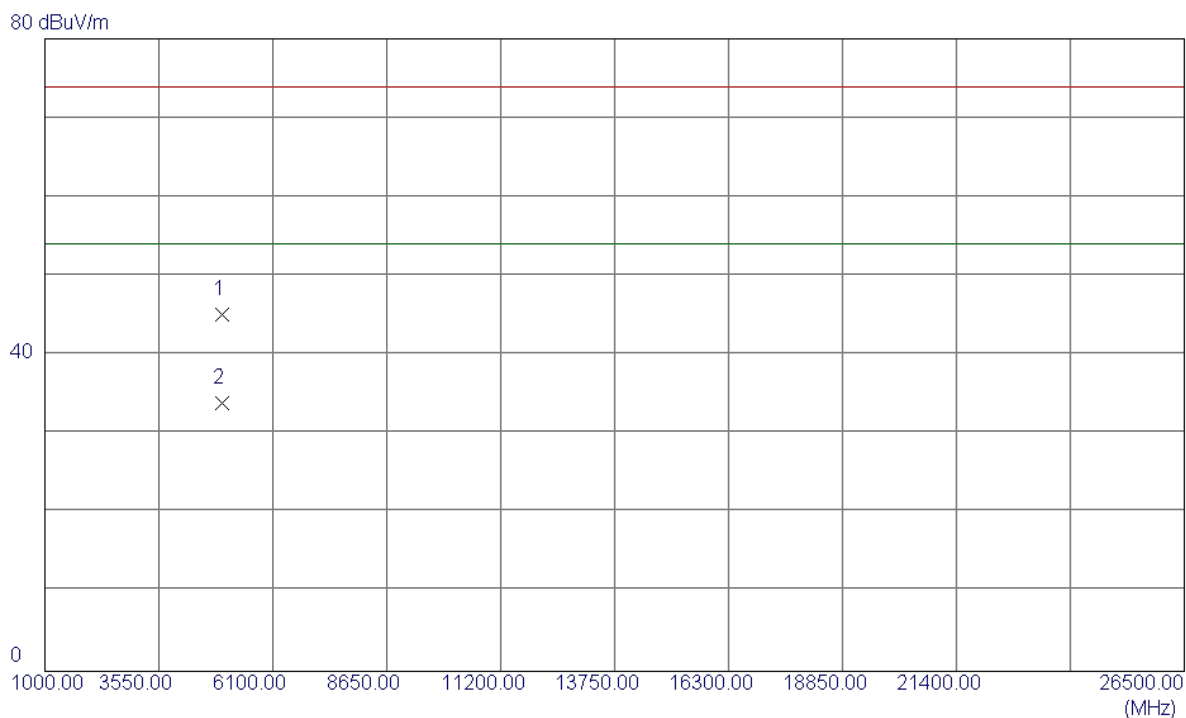
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0500	53.85	33.14	86.99	54.00	32.99	AVG	NO LIMIT
2 *	2480.1500	76.52	33.14	109.66	74.00	35.66	Peak	NO LIMIT
3	2483.5000	24.27	33.15	57.42	74.00	-16.58	Peak	
4	2483.5000	13.43	33.15	46.58	54.00	-7.42	AVG	

Test Mode :	TX 2480MHz _CH78_1Mbps
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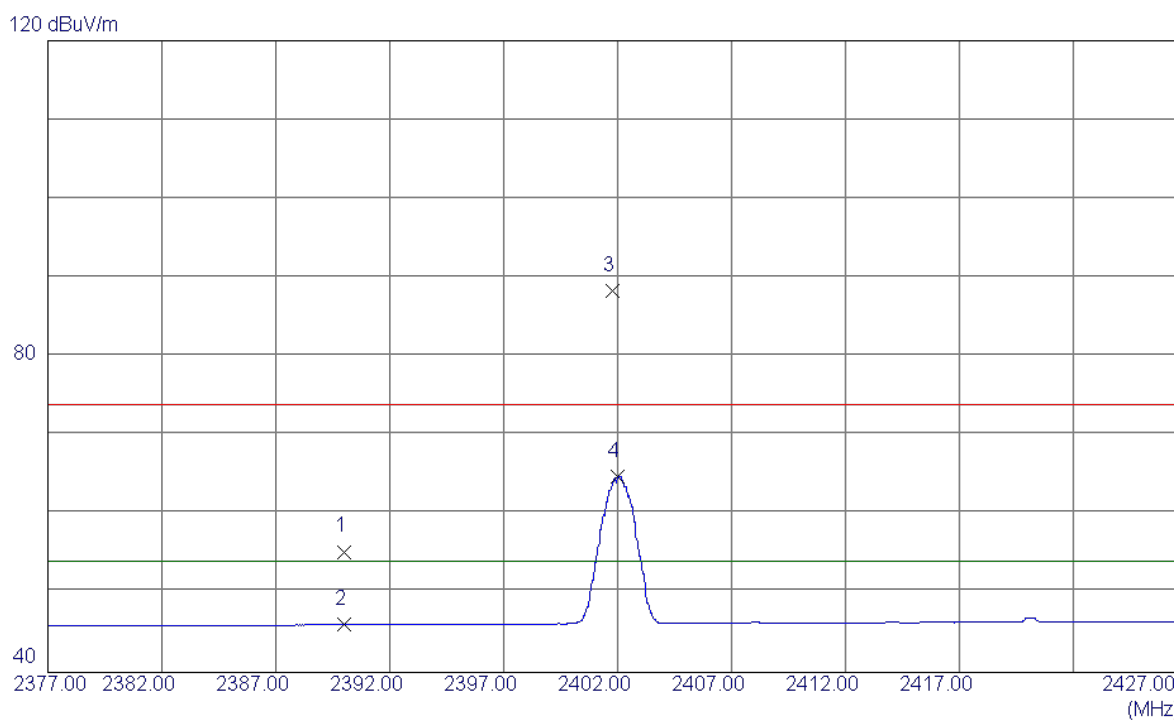
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959.8900	39.92	5.22	45.14	74.00	-28.86	Peak	
2 *	4959.9400	28.70	5.22	33.92	54.00	-20.08	AVG	

Test Mode : TX 2402MHz _CH00_3Mbps

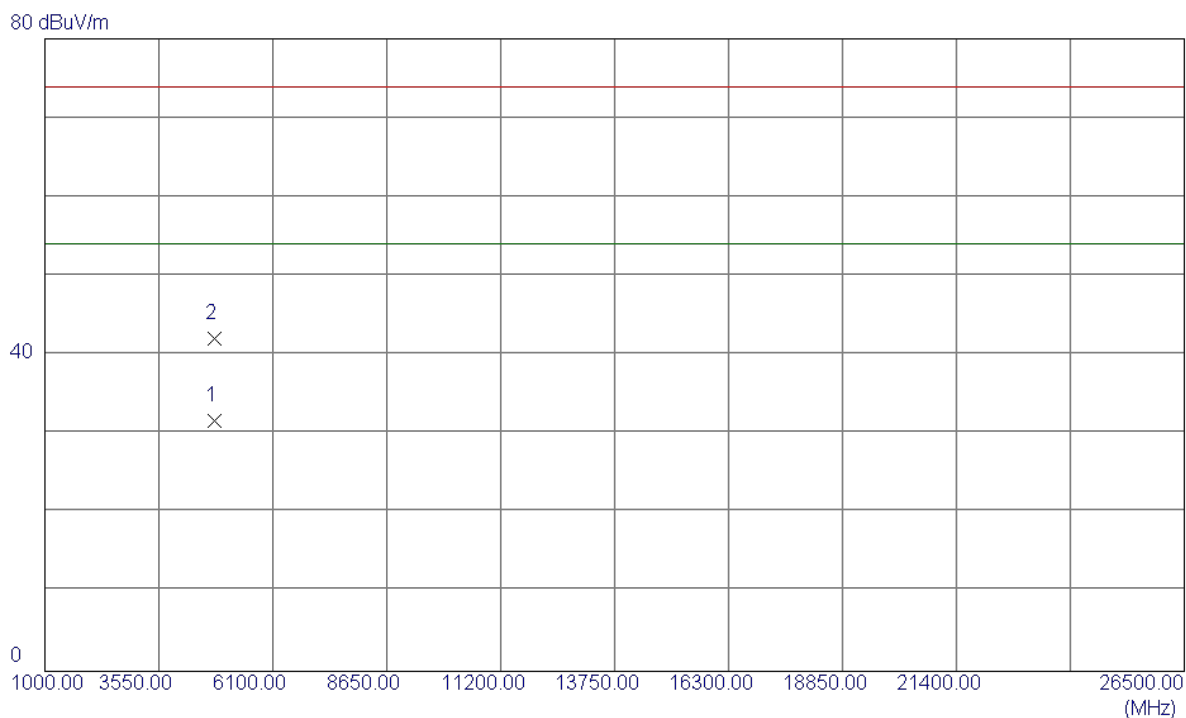
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22.51	32.77	55.28	74.00	-18.72	Peak	
2	2390.0000	13.27	32.77	46.04	54.00	-7.96	AVG	
3 *	2401.8000	55.57	32.82	88.39	74.00	14.39	Peak	NO LIMIT
4	2402.0000	32.05	32.82	64.87	54.00	10.87	AVG	NO LIMIT

Test Mode :	TX 2402MHz _CH00_3Mbps
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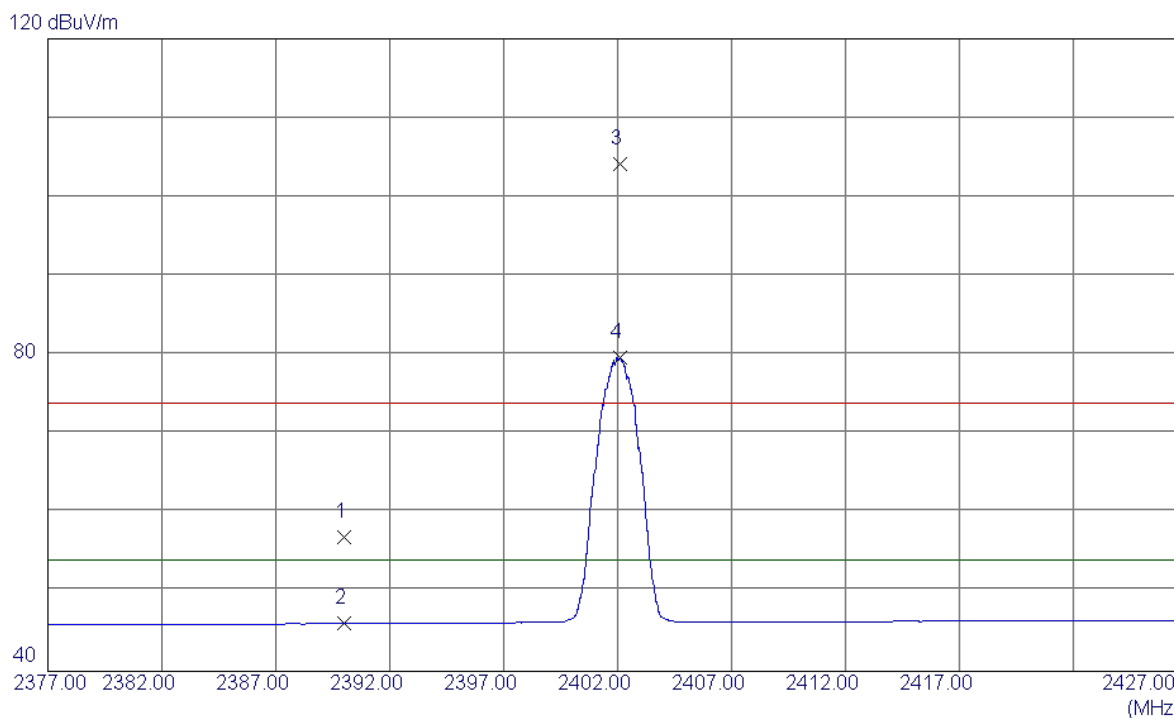
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4803.8400	27.14	4.61	31.75	54.00	-22.25	AVG	
2	4804.3200	37.42	4.62	42.04	74.00	-31.96	Peak	

Test Mode : TX 2402MHz _CH00_3Mbps

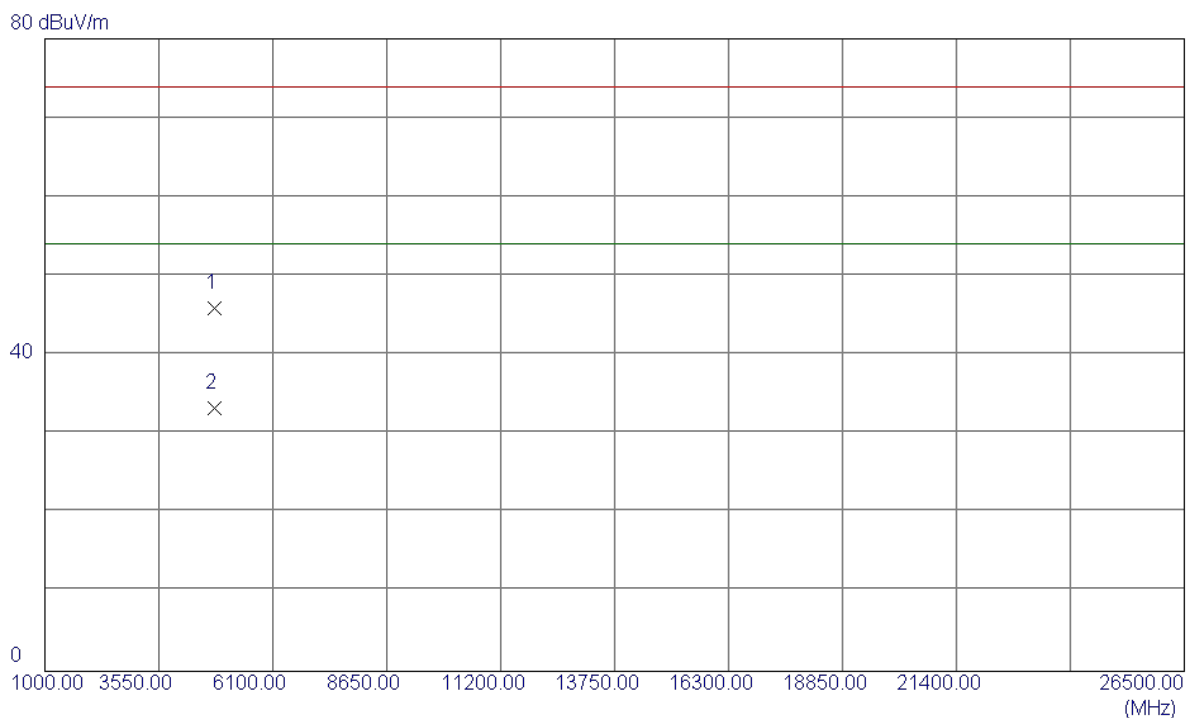
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.14	32.77	56.91	74.00	-17.09	Peak	
2	2390.0000	13.27	32.77	46.04	54.00	-7.96	AVG	
3 *	2402.1000	71.32	32.82	104.14	74.00	30.14	Peak	NO LIMIT
4	2402.1000	46.93	32.82	79.75	54.00	25.75	AVG	NO LIMIT

Test Mode :	TX 2402MHz _CH00_3Mbps
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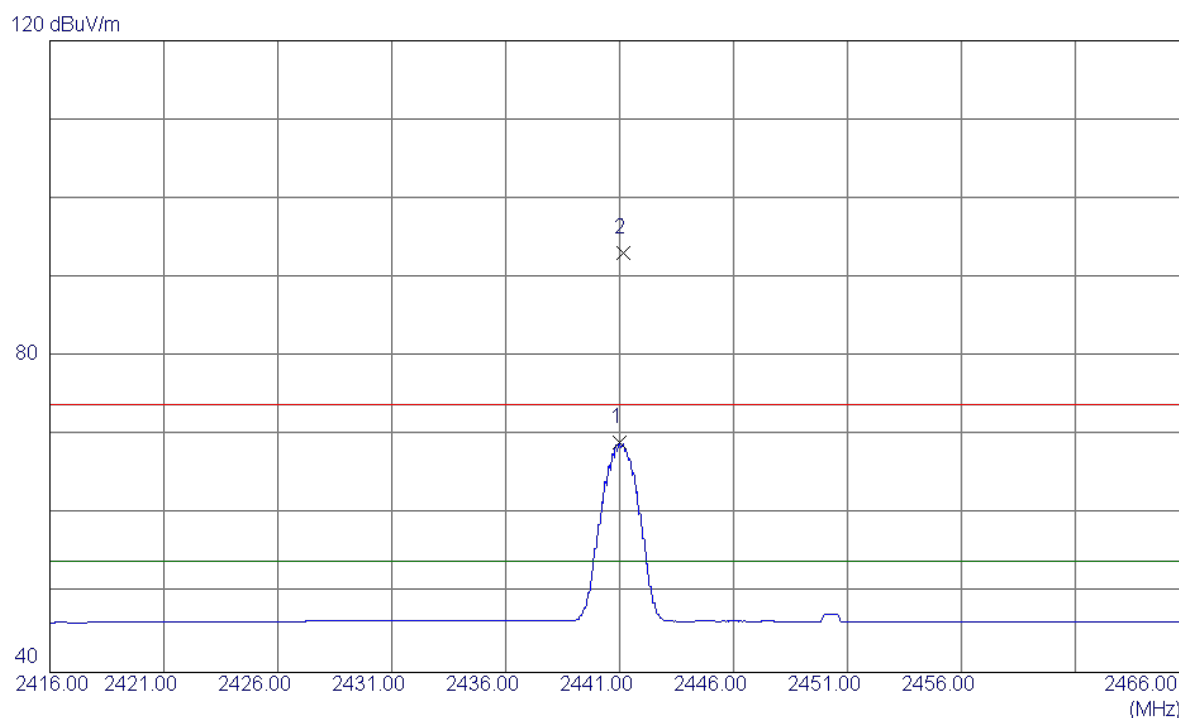
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.7000	41.25	4.61	45.86	74.00	-28.14	Peak	
2 *	4804.2799	28.60	4.62	33.22	54.00	-20.78	AVG	

Test Mode :	TX 2441MHz _CH39_3Mbps
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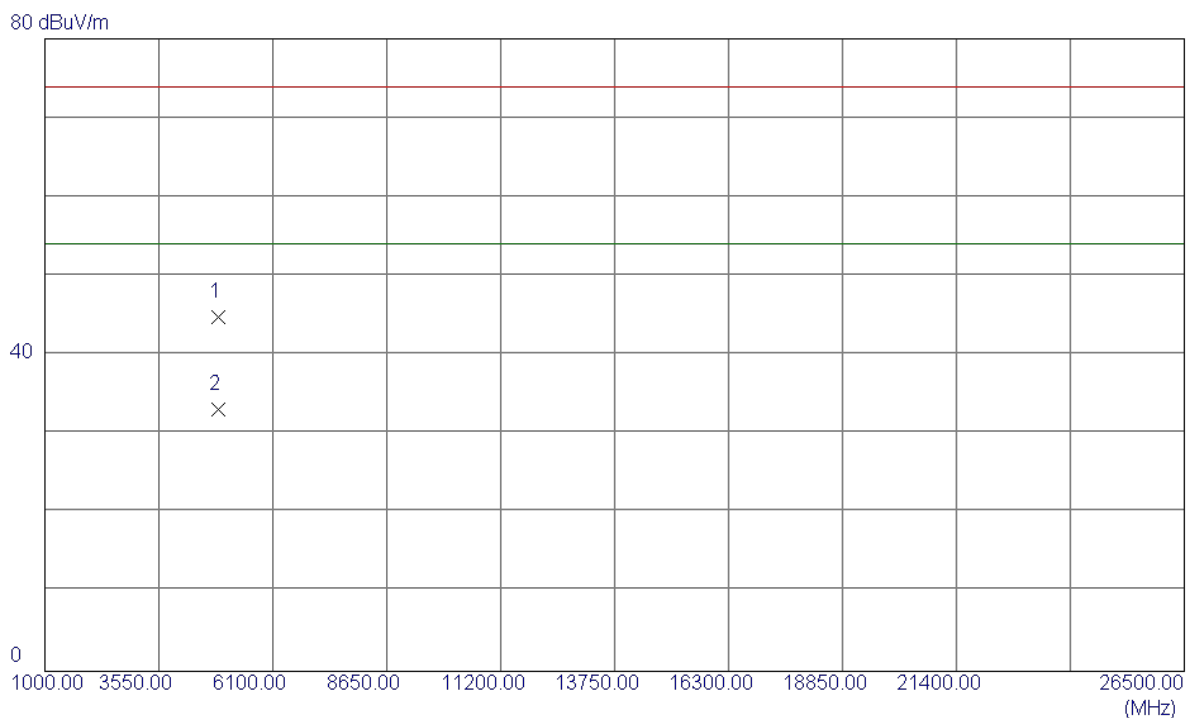
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2441.0000	36.17	32.98	69.15	54.00	15.15	AVG	NO LIMIT
2 *	2441.1500	60.14	32.98	93.12	74.00	19.12	Peak	NO LIMIT

Test Mode :	TX 2441MHz _CH39_3Mbps
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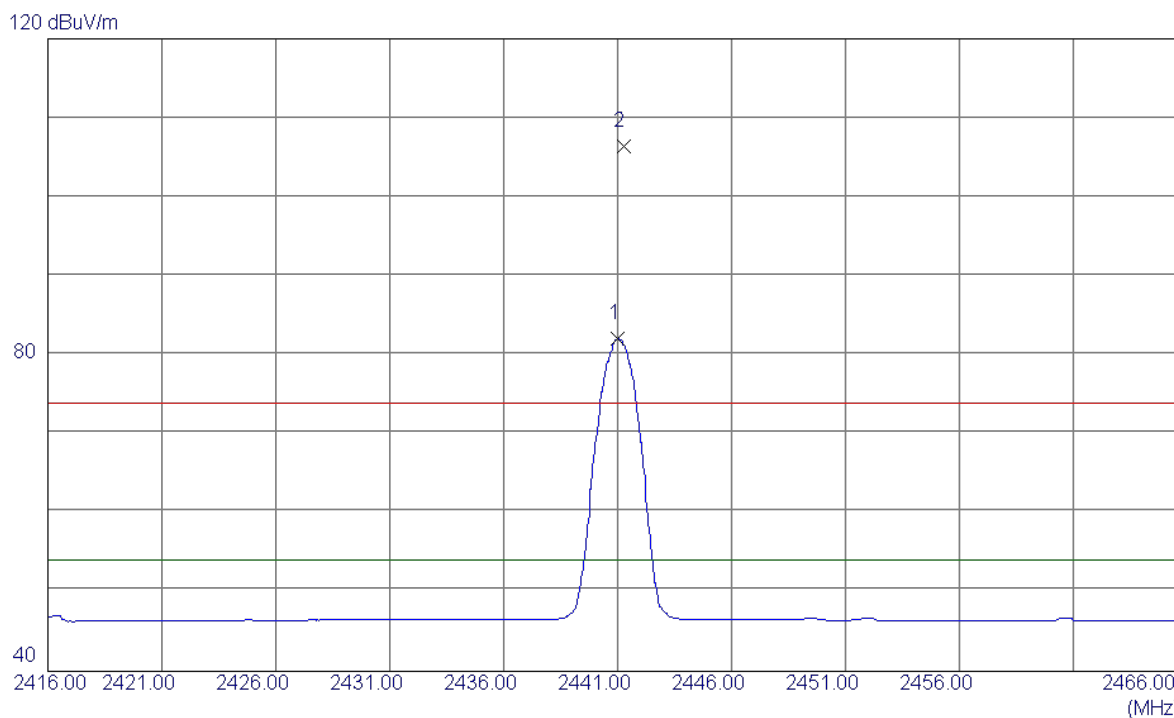
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4882.0250	39.85	4.92	44.77	74.00	-29.23	Peak	
2 *	4882.0500	28.13	4.92	33.05	54.00	-20.95	AVG	

Test Mode : TX 2441MHz _CH39_3Mbps

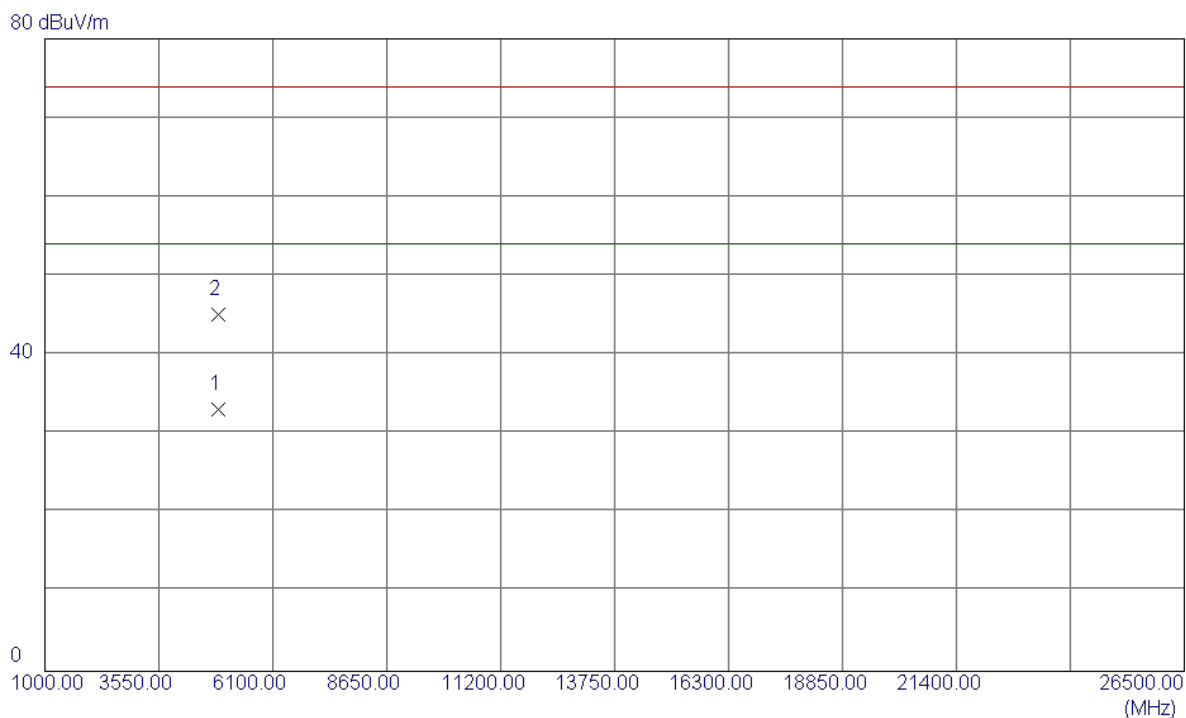
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.0000	49.11	32.98	82.09	54.00	28.09	AVG	NO LIMIT
2 *	2441.2500	73.35	32.98	106.33	74.00	32.33	Peak	NO LIMIT

Test Mode :	TX 2441MHz _CH39_3Mbps
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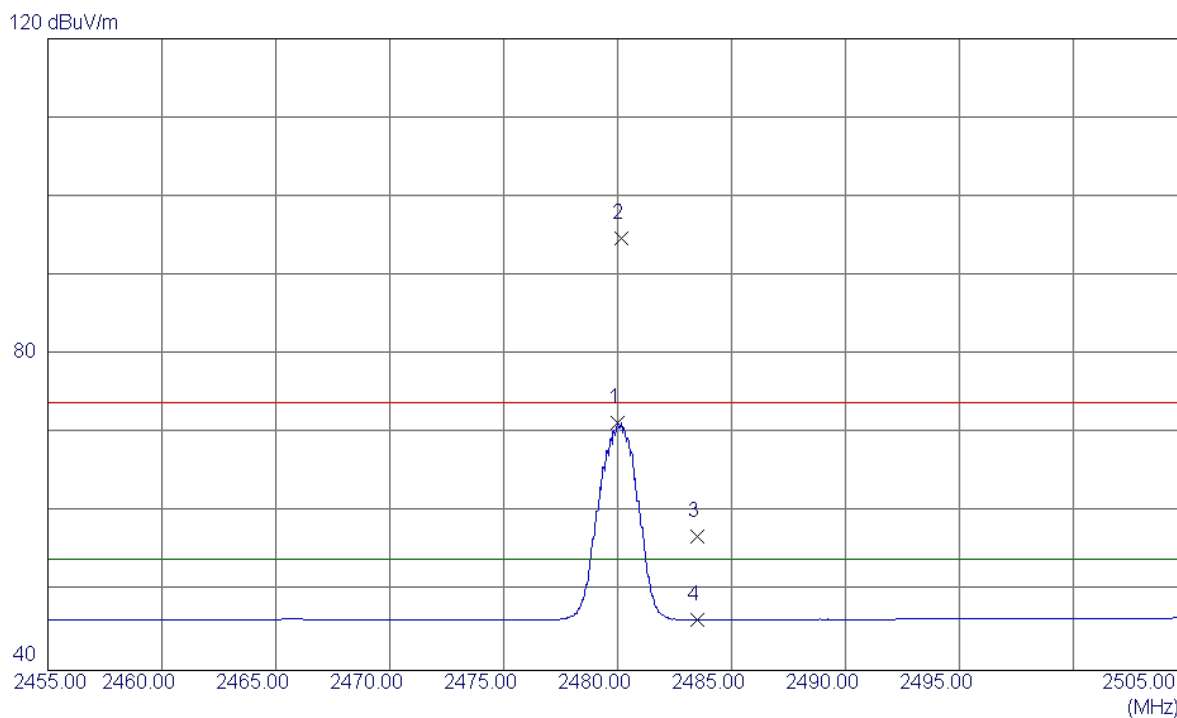
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4882.0299	28.13	4.92	33.05	74.00	-40.95	Peak	
2 *	4882.1900	40.24	4.92	45.16	74.00	-28.84	Peak	

Test Mode : TX 2480MHz _CH78_3Mbps

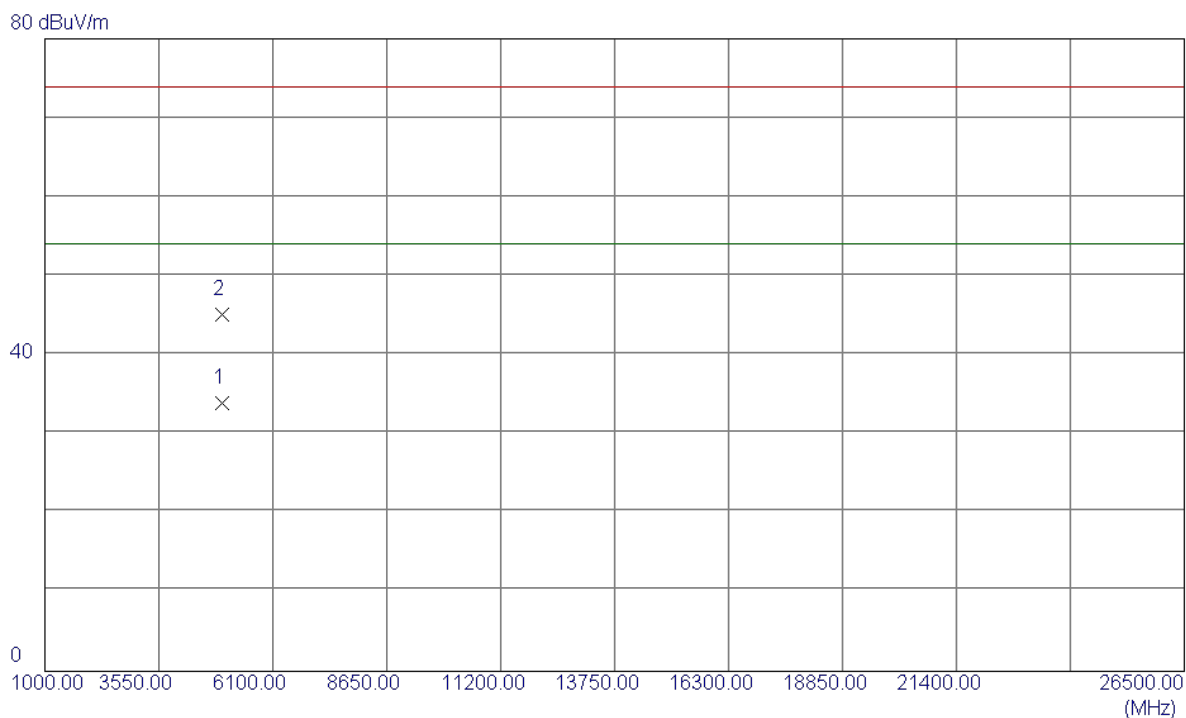
Vertical



No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2480.0000	38.27	33.14	71.41	54.00	17.41	AVG	NO LIMIT
2 *	2480.1500	61.59	33.14	94.73	74.00	20.73	Peak	NO LIMIT
3	2483.5000	23.74	33.15	56.89	74.00	-17.11	Peak	
4	2483.5000	13.26	33.15	46.41	54.00	-7.59	AVG	

Test Mode :	TX 2480MHz _CH78_3Mbps
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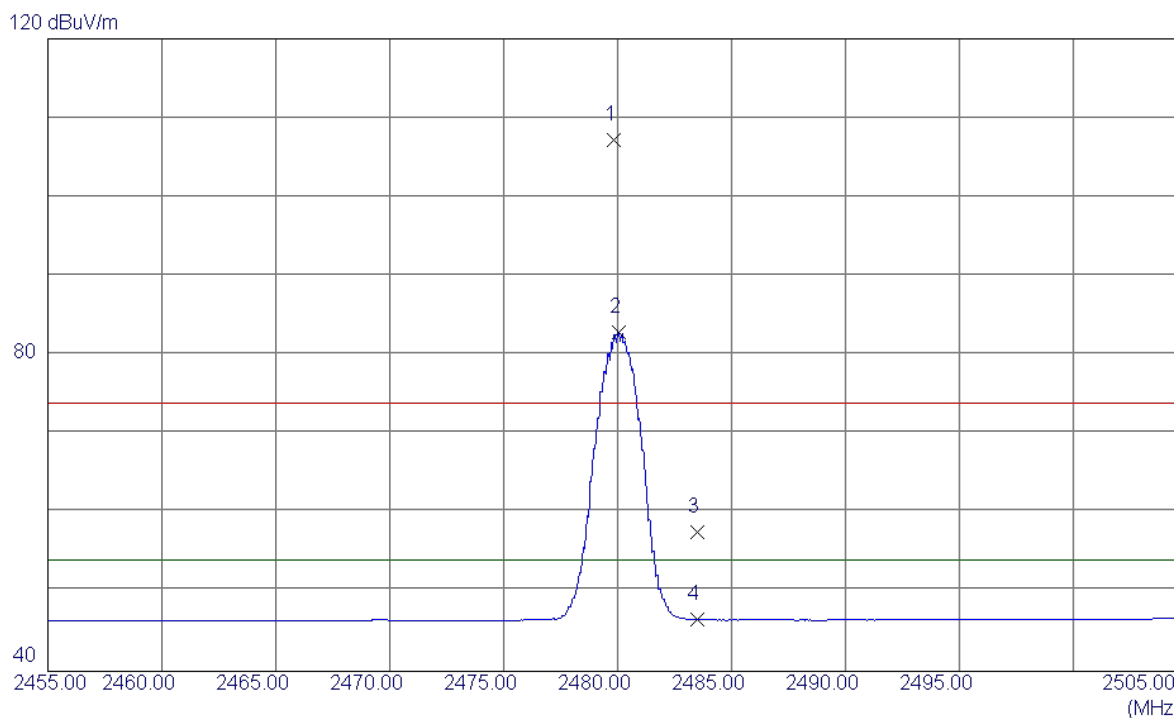
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4959.9850	28.68	5.22	33.90	54.00	-20.10	AVG	
2	4960.0550	39.87	5.22	45.09	74.00	-28.91	Peak	

Test Mode : TX 2480MHz _CH78_3Mbps

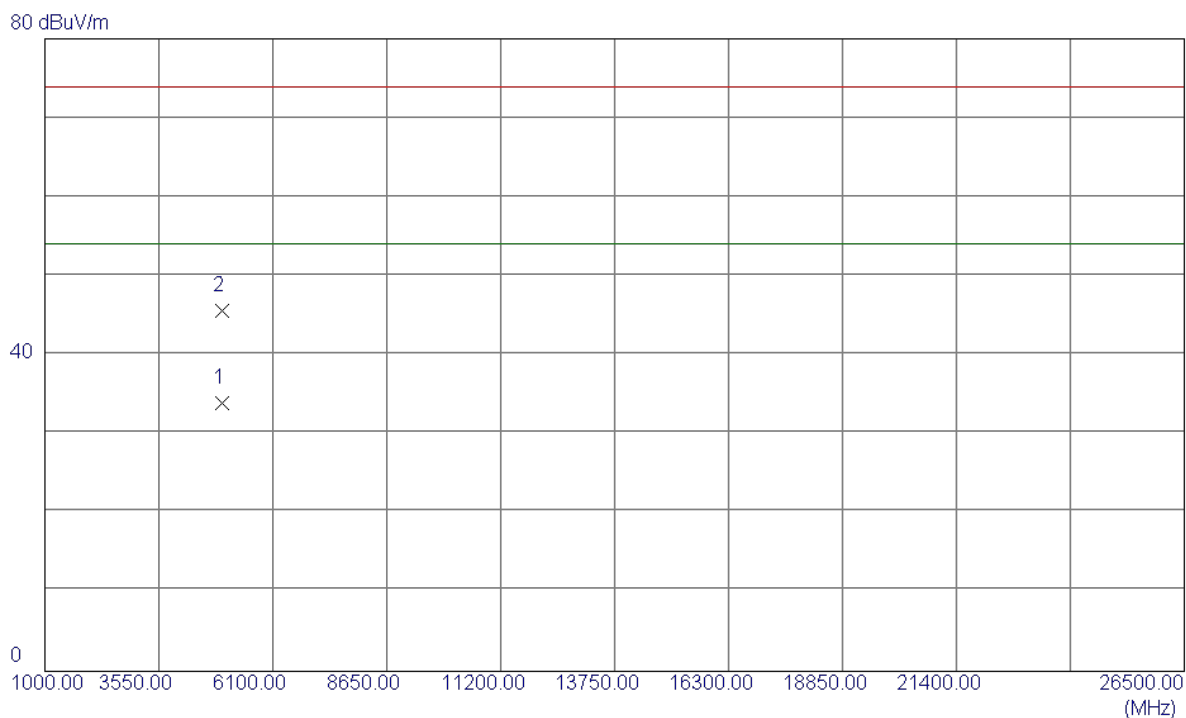
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2479.8500	74.09	33.14	107.23	74.00	33.23	Peak	NO LIMIT
2	2480.0500	49.76	33.14	82.90	54.00	28.90	AVG	NO LIMIT
3	2483.5000	24.47	33.15	57.62	74.00	-16.38	Peak	
4	2483.5000	13.37	33.15	46.52	54.00	-7.48	AVG	

Test Mode :	TX 2480MHz _CH78_3Mbps
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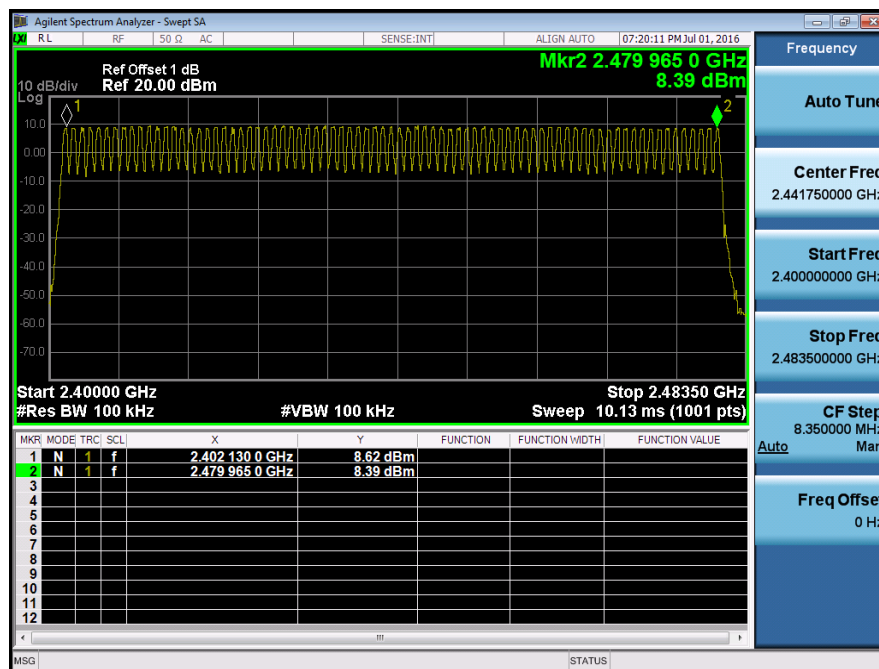
Horizontal



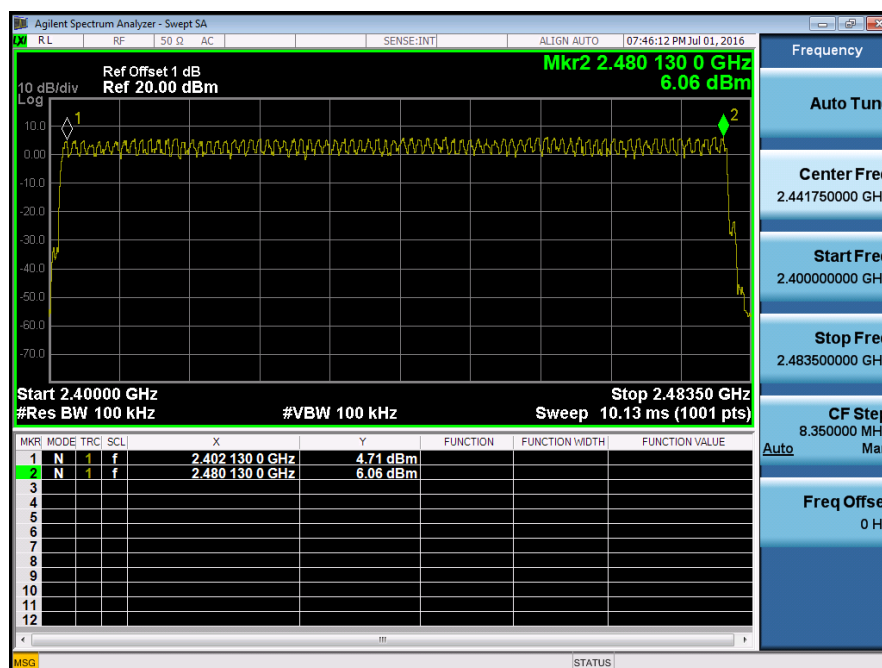
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4959.9550	28.69	5.22	33.91	54.00	-20.09	AVG	
2	4960.0550	40.40	5.22	45.62	74.00	-28.38	Peak	

ATTACHMENT E - NUMBER OF HOPPING CHANNEL

Test Mode	Hopping Mode_1Mbps
Number of Hopping Channel	79



Test Mode	Hopping Mode_3Mbps
Number of Hopping Channel	79

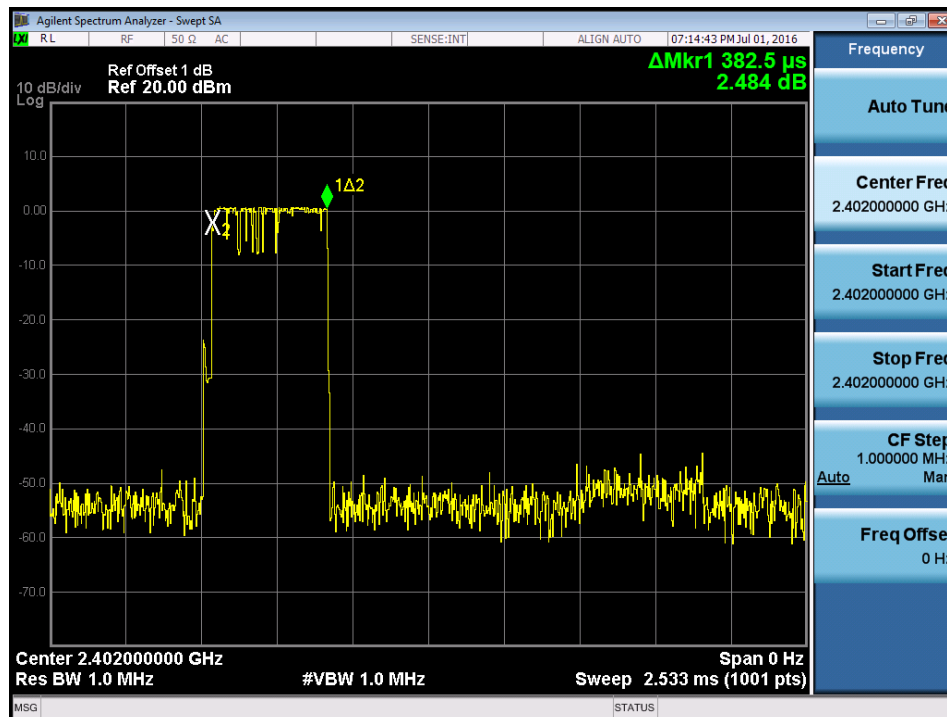


ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

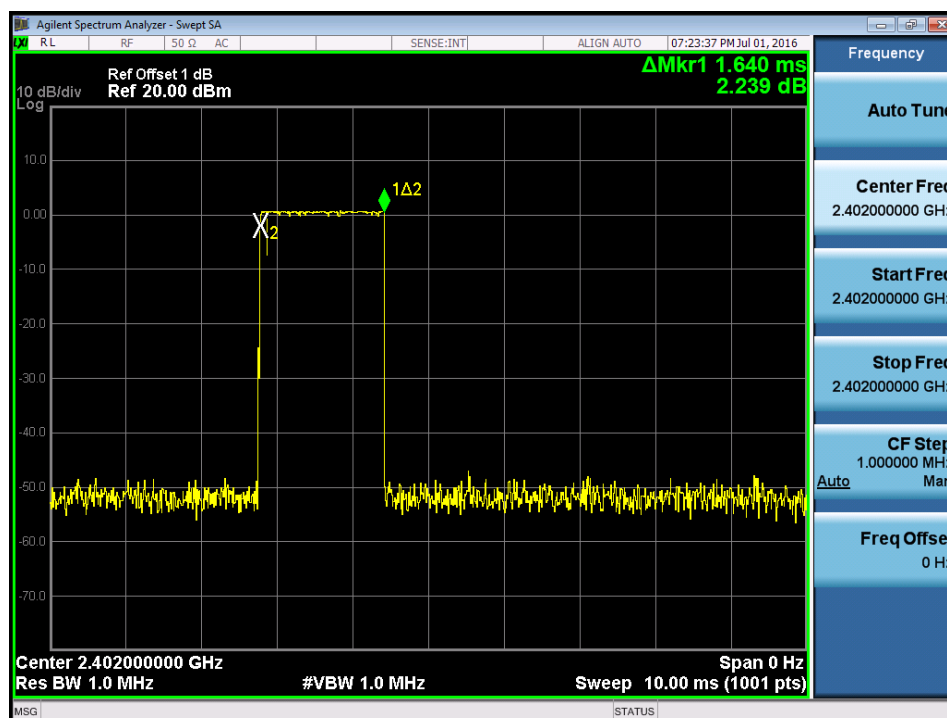
Test Mode :	TX Mode_1Mbps
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Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.1749	0.4000	Pass
DH1	2402	0.3825	0.0408	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.1749	0.4000	Pass
DH1	2441	0.3825	0.0408	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6400	0.1749	0.4000	Pass
DH1	2480	0.3825	0.0408	0.4000	Pass

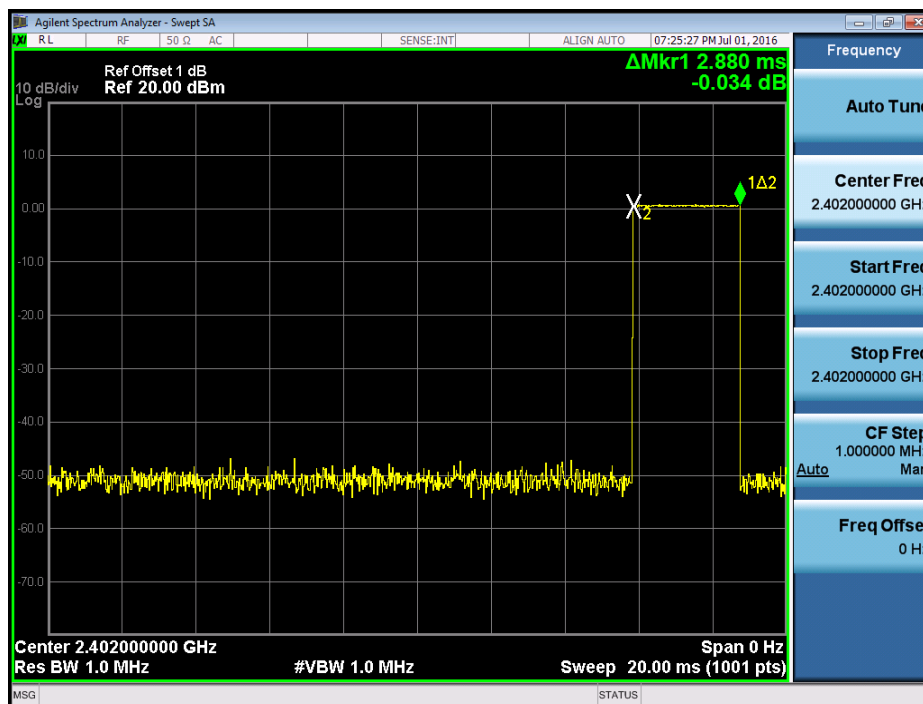
CH00-DH1



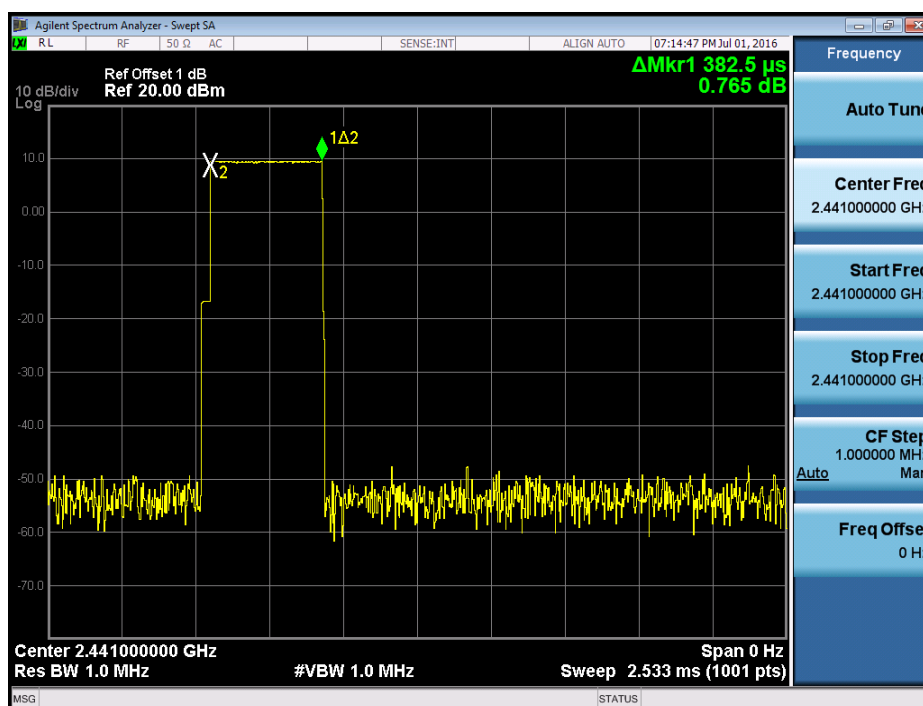
CH00-DH3



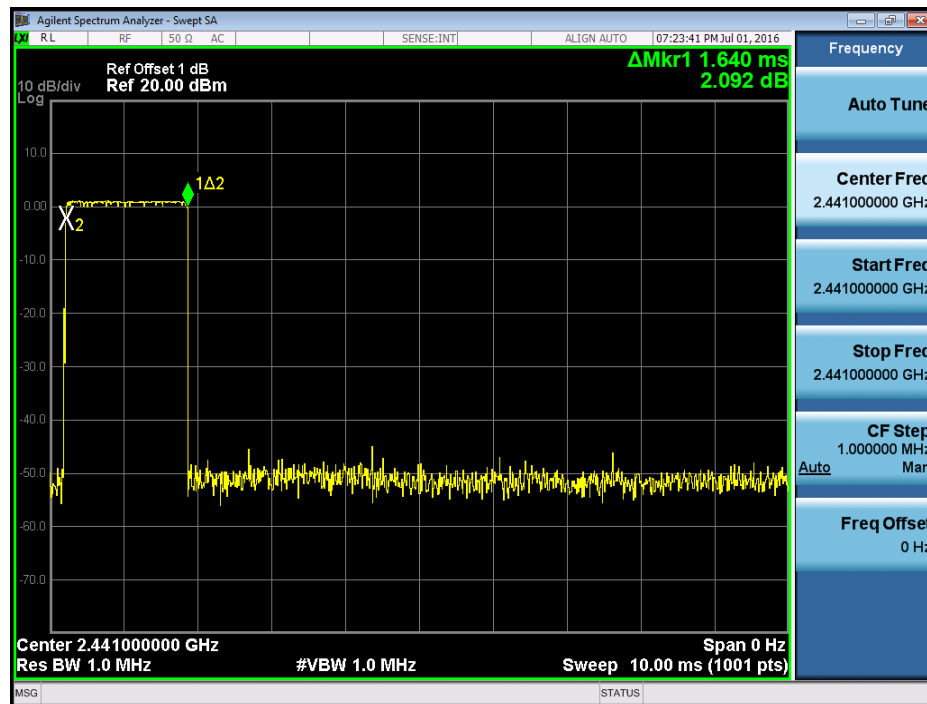
CH00-DH5



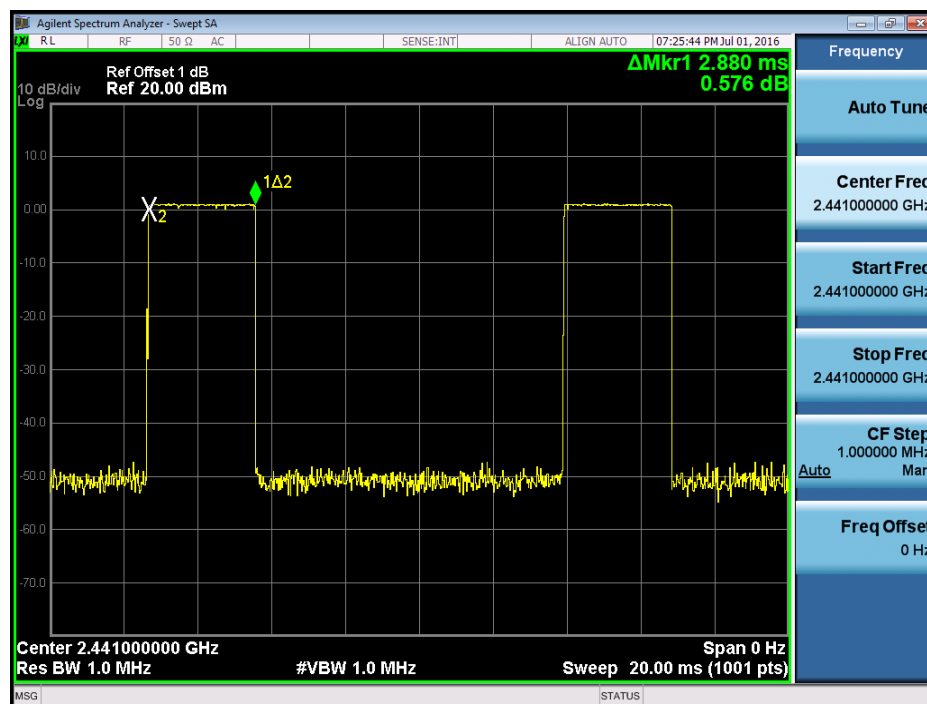
CH39-DH1



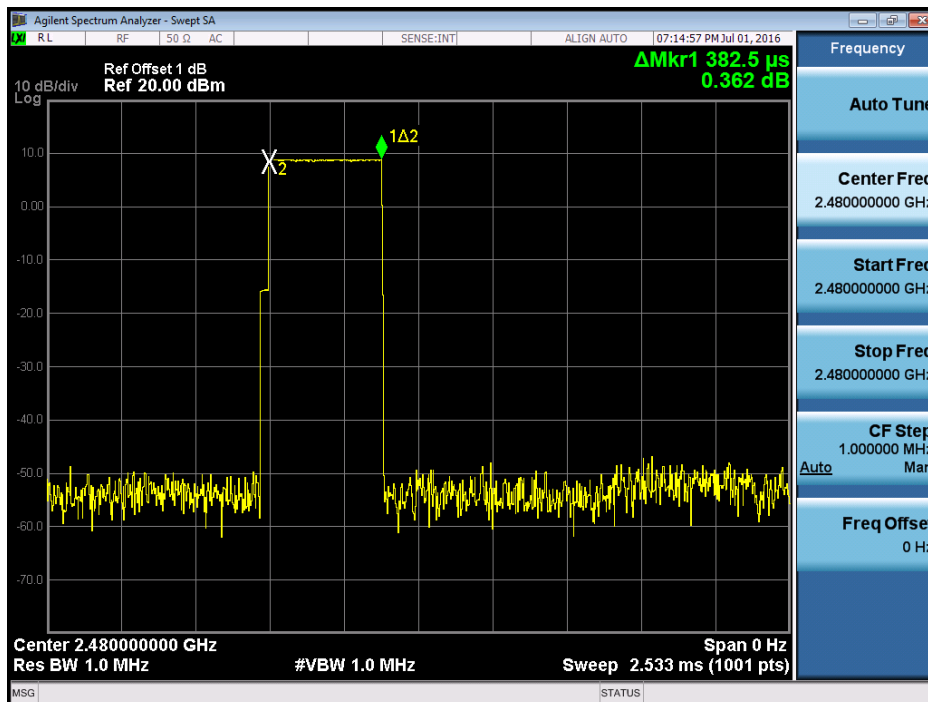
CH39-DH3



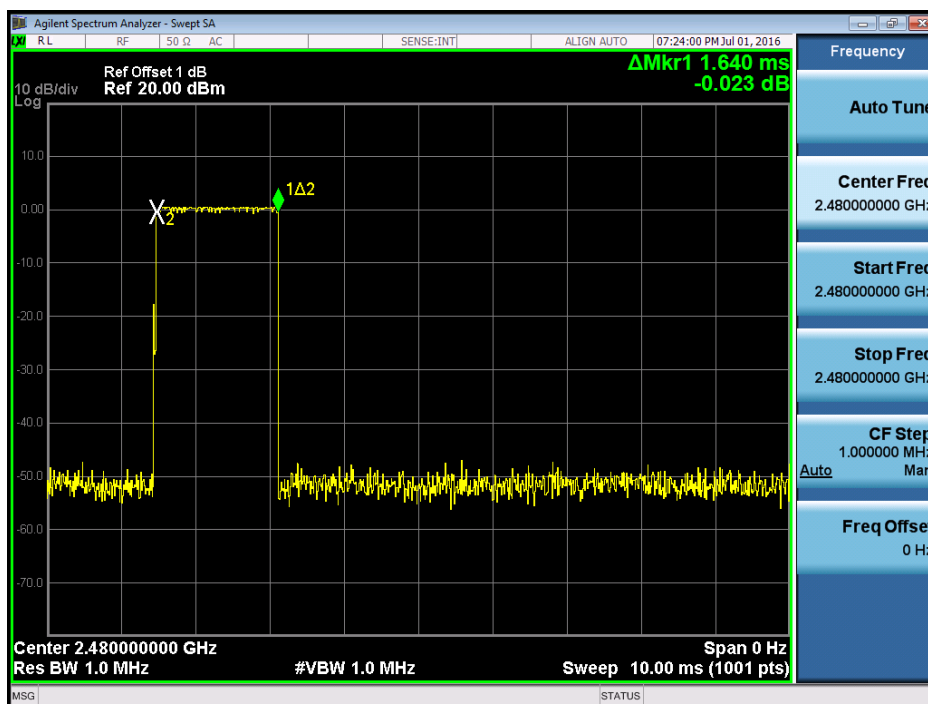
CH39-DH5



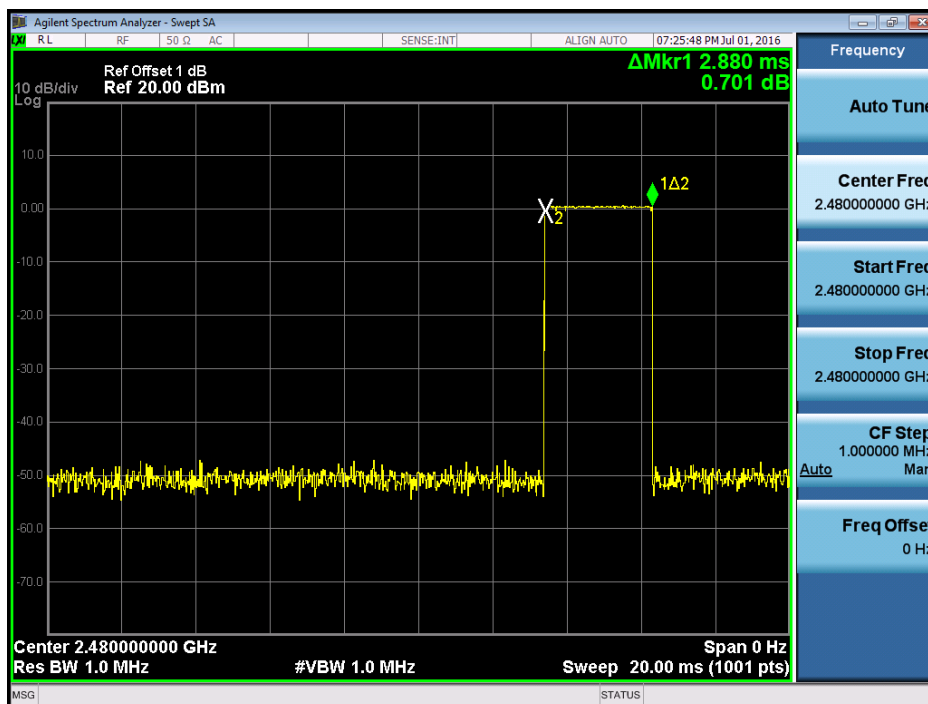
CH78-DH1



CH78-DH3



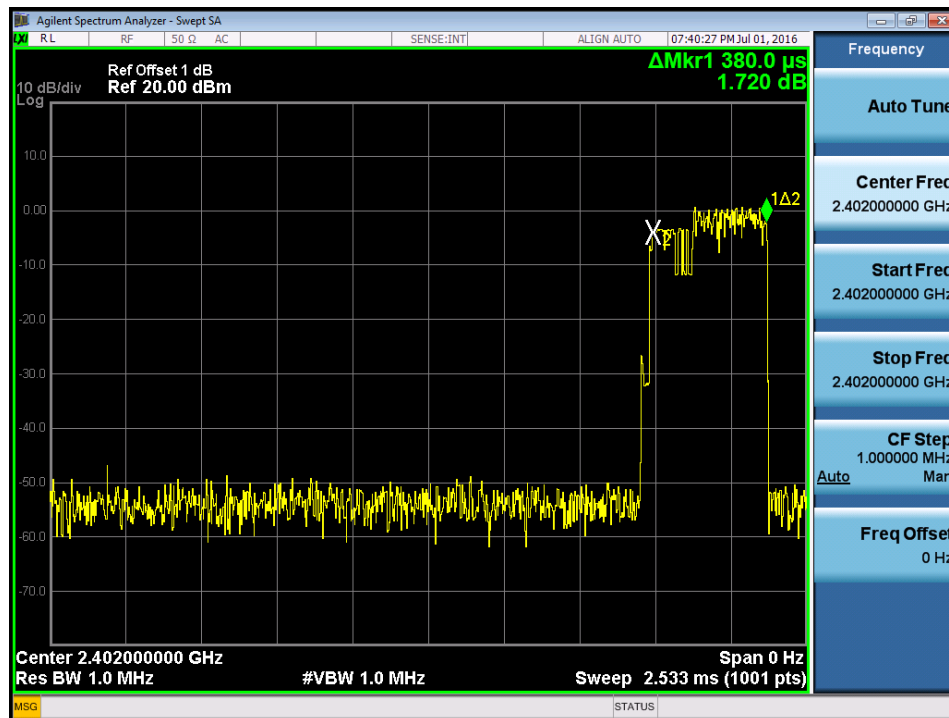
CH78-DH5



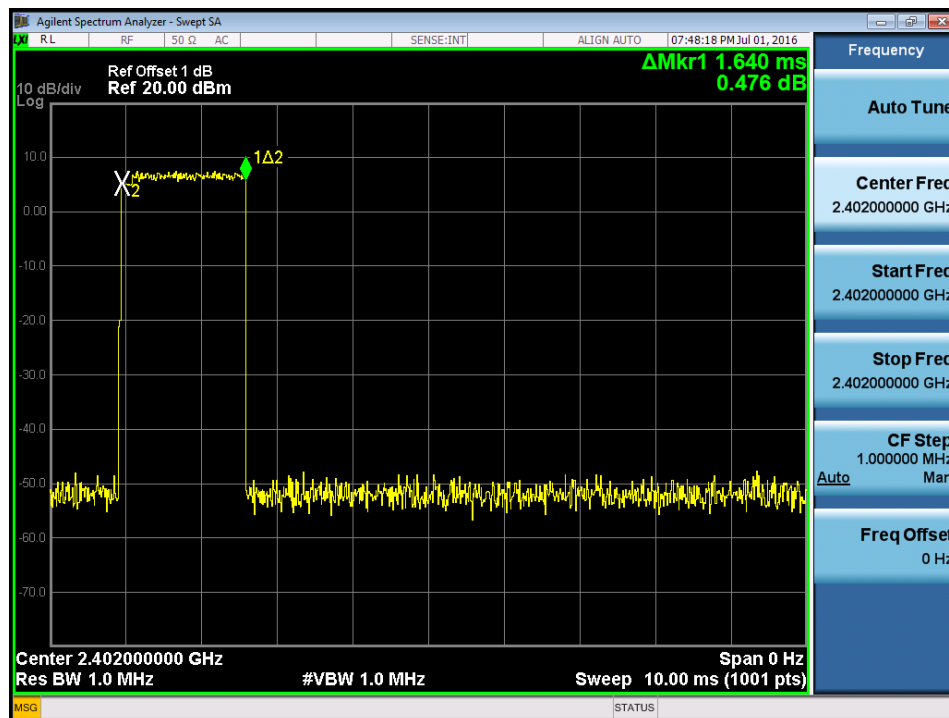
Test Mode :	TX Mode_3Mbps
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Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.1749	0.4000	Pass
DH1	2402	0.3800	0.0405	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.1749	0.4000	Pass
DH1	2441	0.3775	0.0403	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6400	0.1749	0.4000	Pass
DH1	2480	0.3876	0.0413	0.4000	Pass

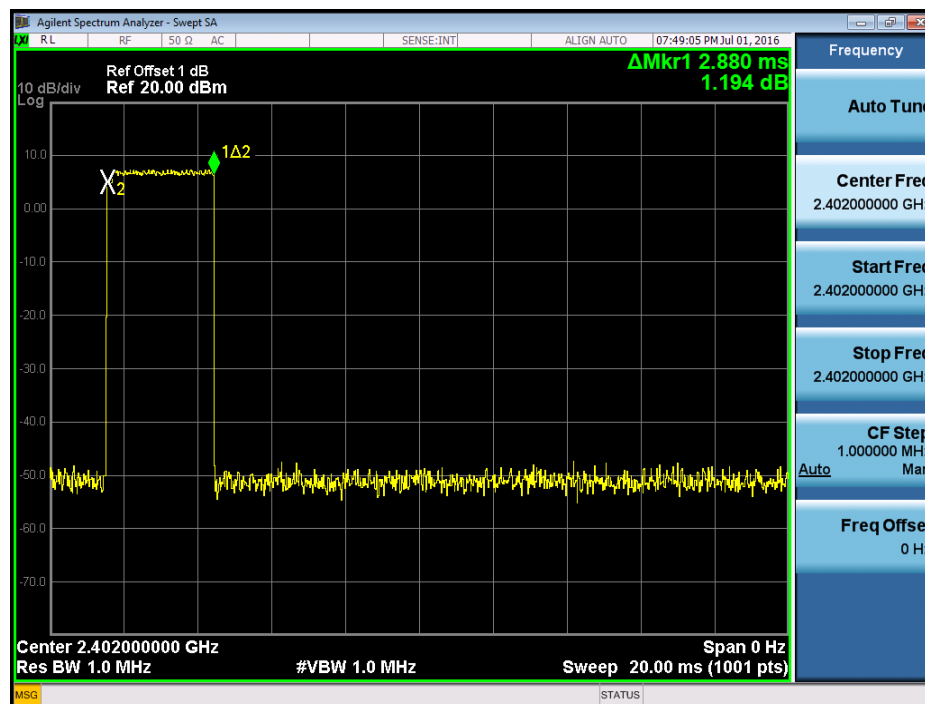
CH00-DH1



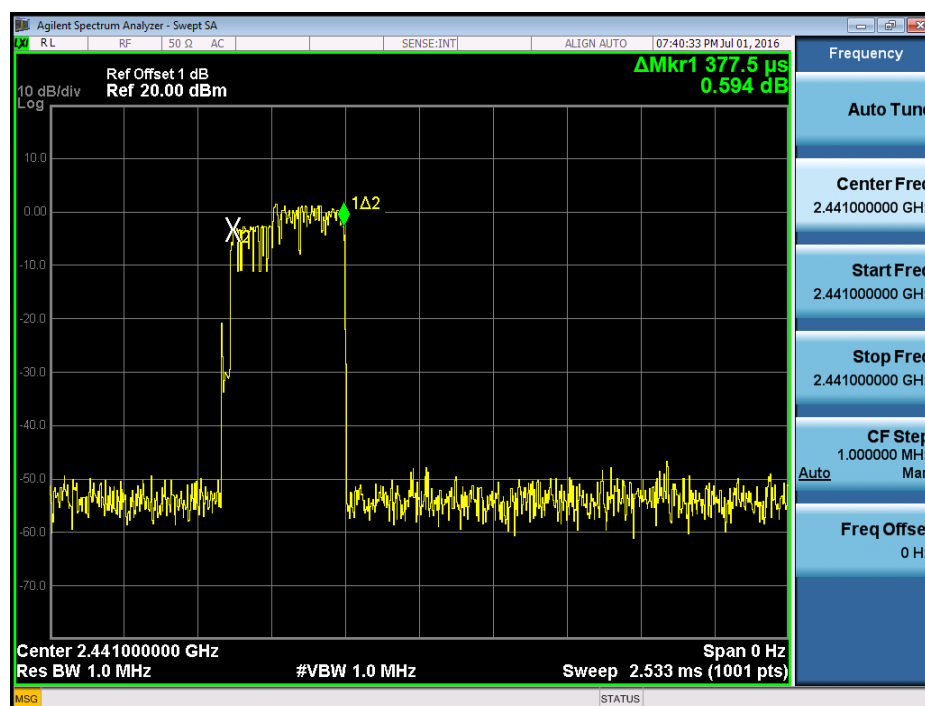
CH00-DH3



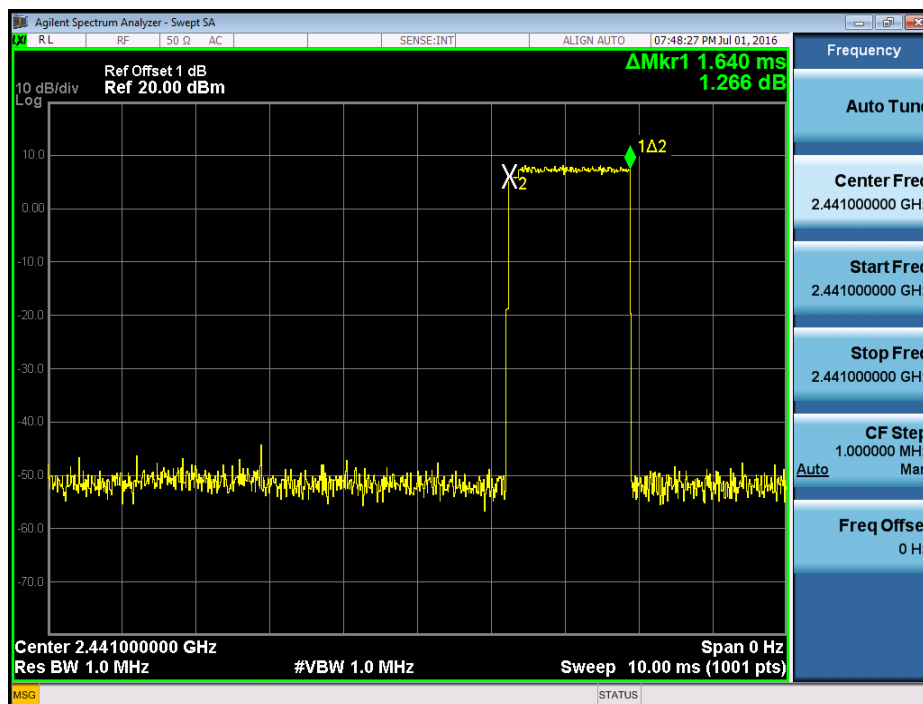
CH00-DH5



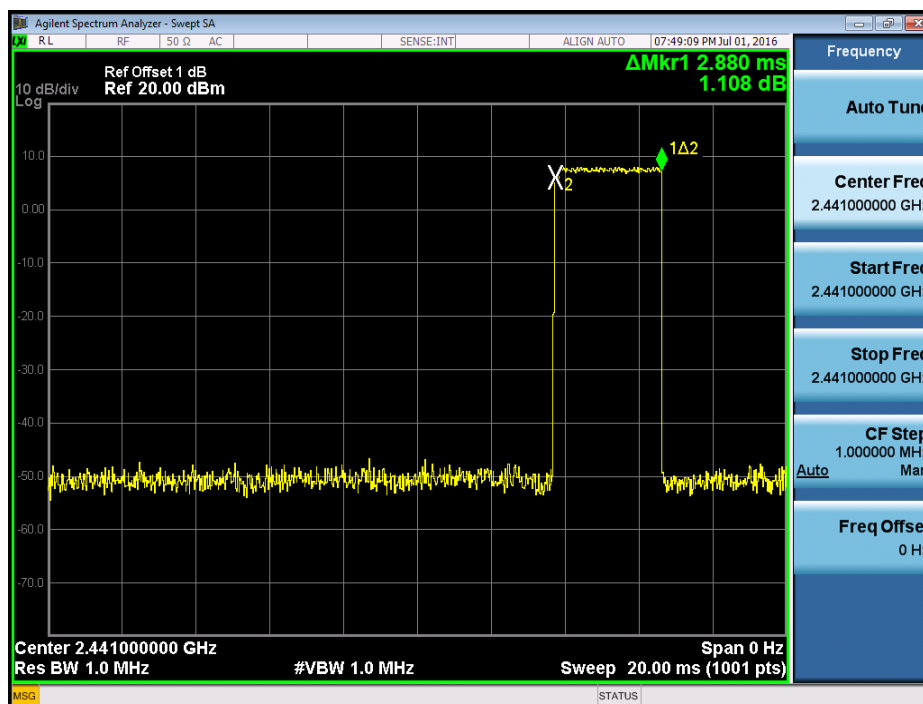
CH39-DH1



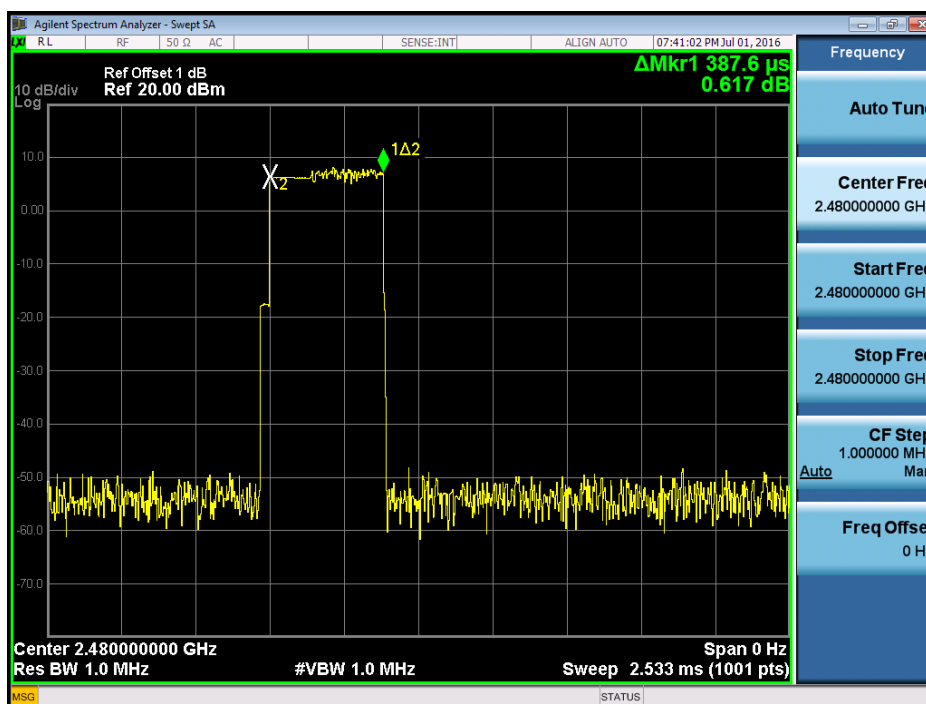
CH39-DH3



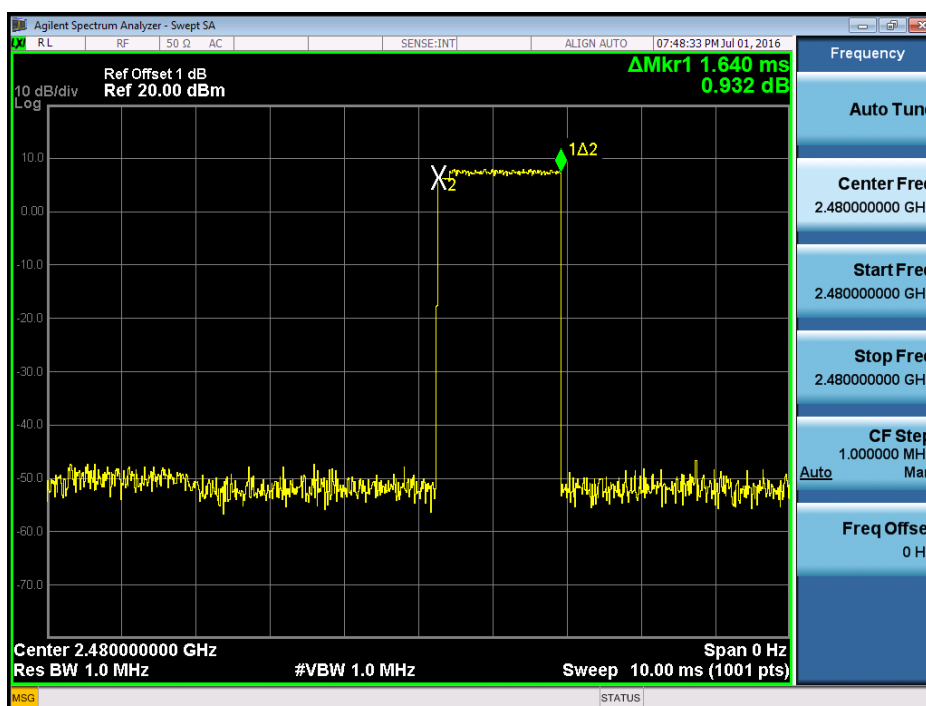
CH39-DH5



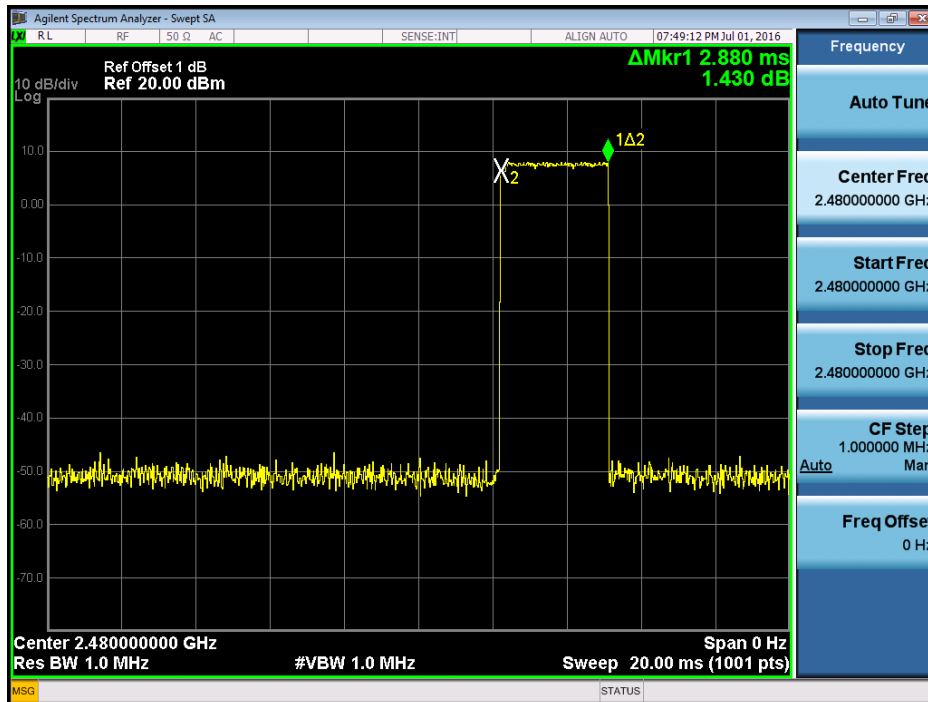
CH78-DH1



CH78-DH3



CH78-DH5

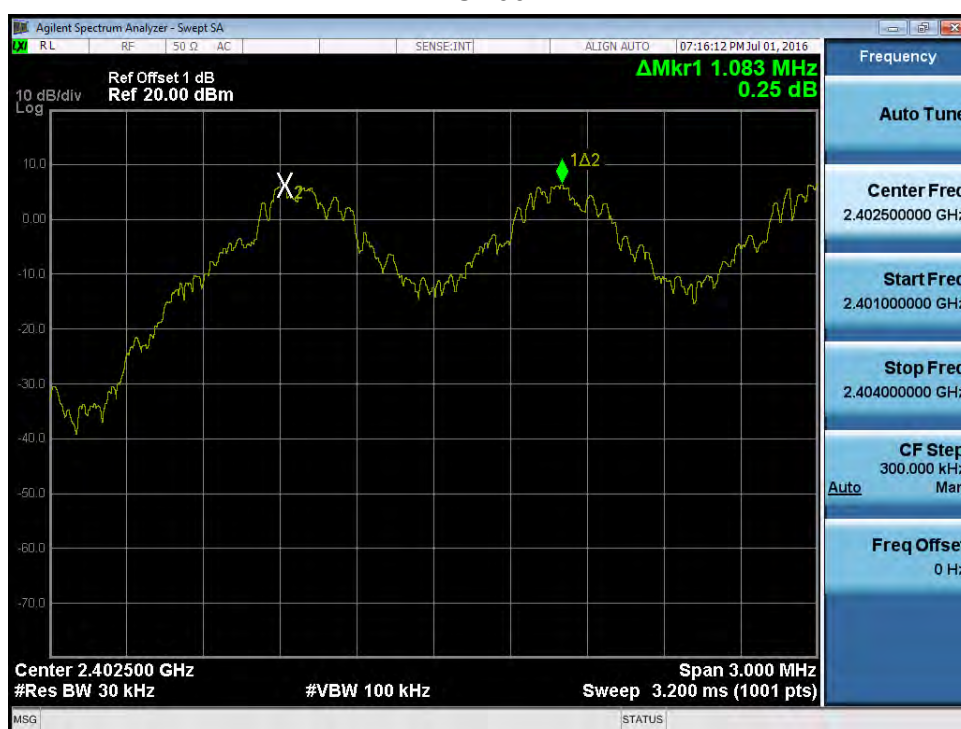


ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT

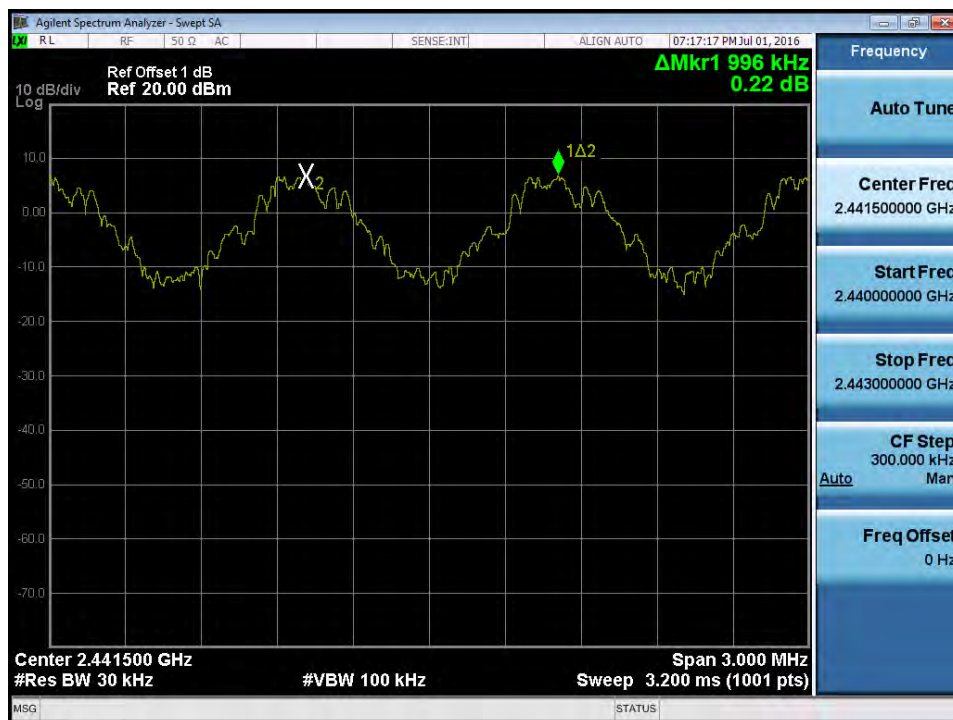
Test Mode :	Hopping on _1Mbps
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Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.083	0.653	Pass
2441	0.996	0.652	Pass
2480	0.918	0.655	Pass

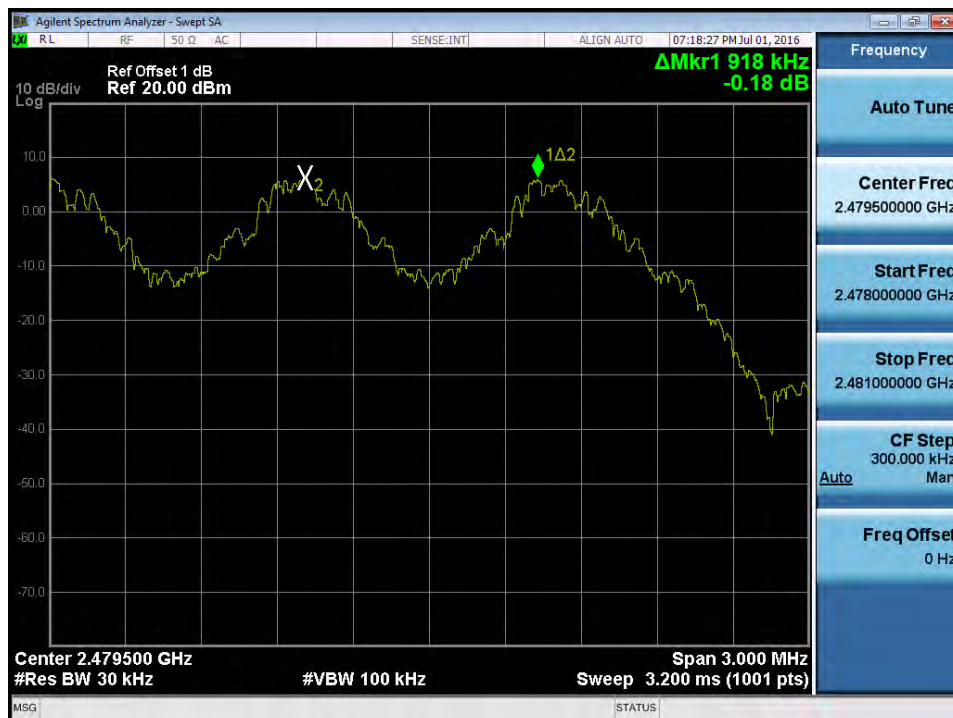
CH00



CH39



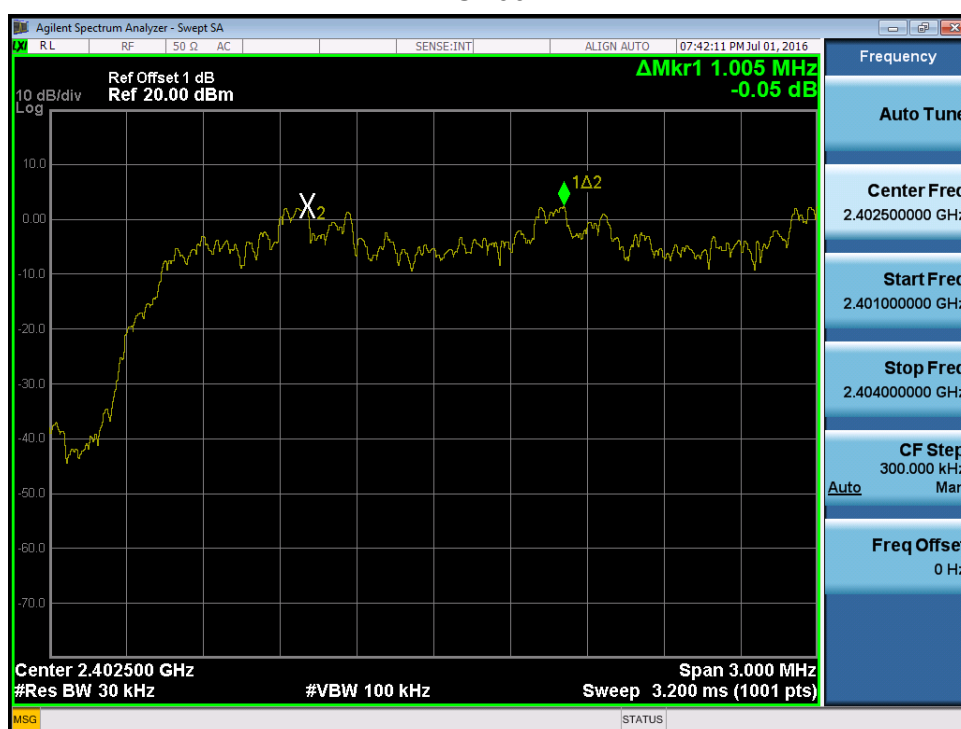
CH78



Test Mode :	Hopping on _3Mbps
-------------	-------------------

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.005	0.883	Pass
2441	0.995	0.877	Pass
2480	1.002	0.878	Pass

CH00



CH39



CH78

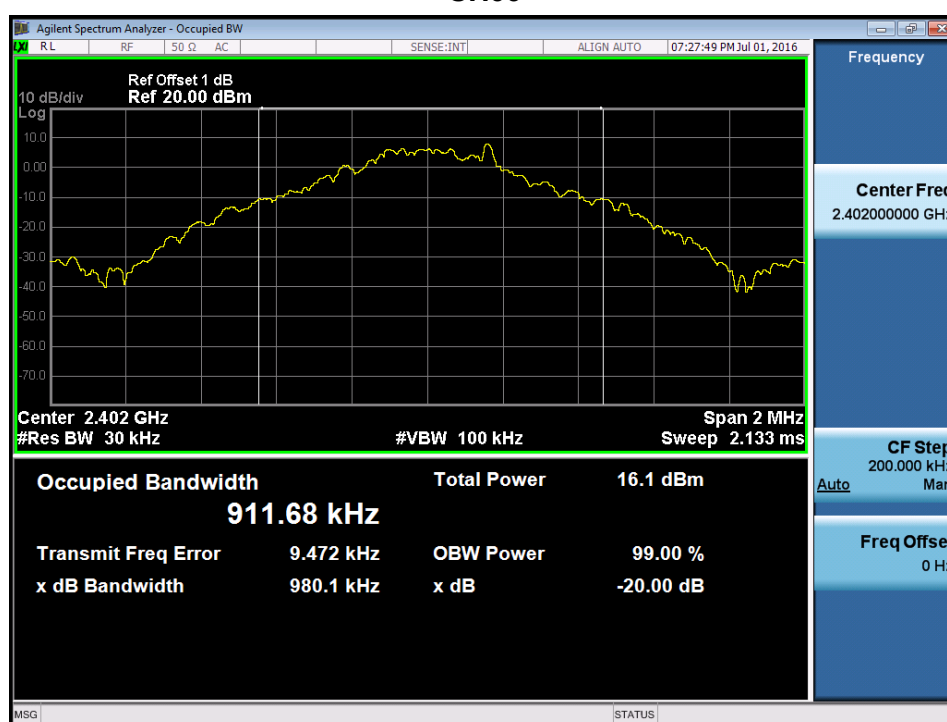


ATTACHMENT H - BANDWIDTH

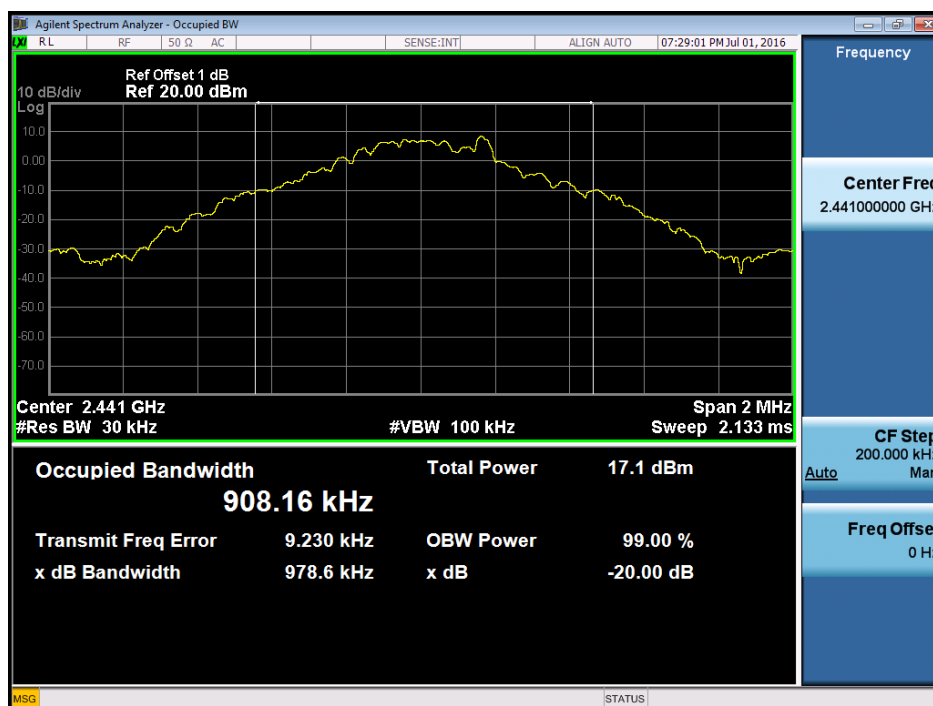
Test Mode :	TX Mode _1Mbps
-------------	----------------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.980	0.912	Pass
2441	0.979	0.908	Pass
2480	0.982	0.911	Pass

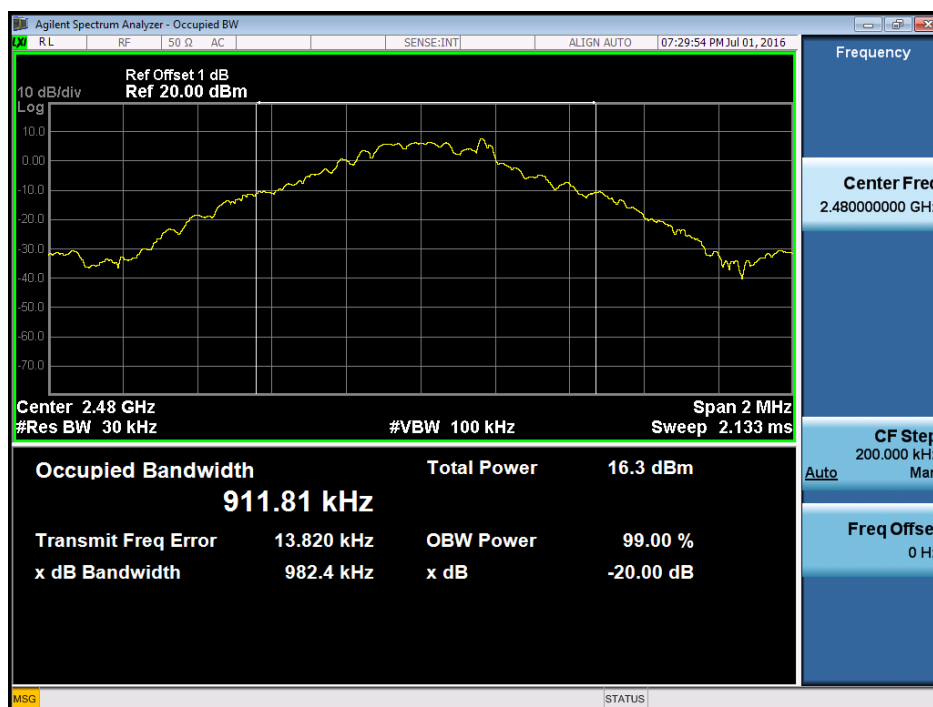
CH00



CH39



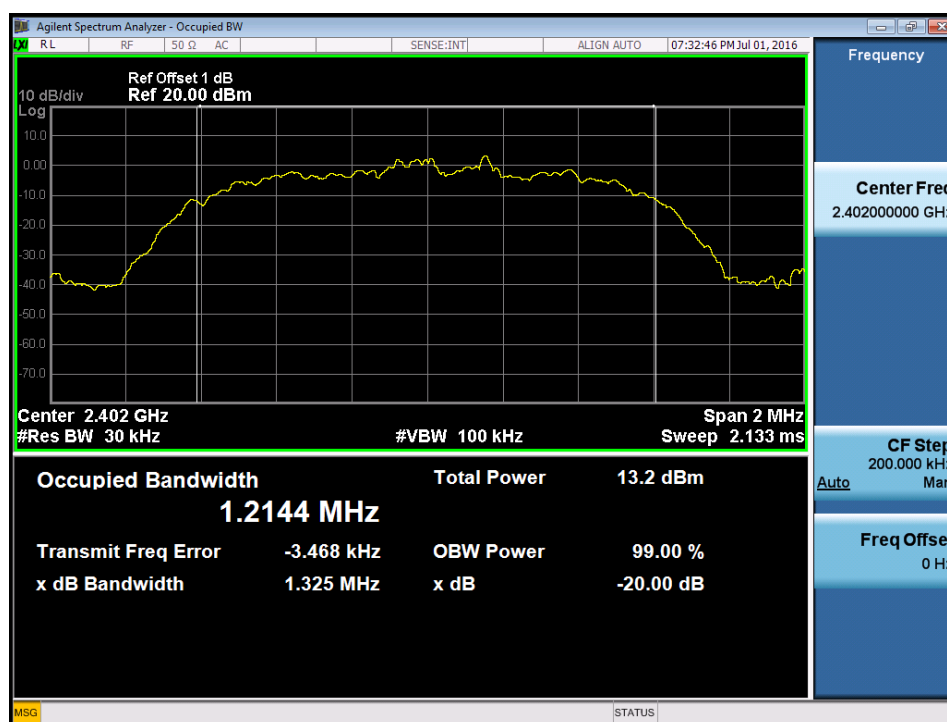
CH78



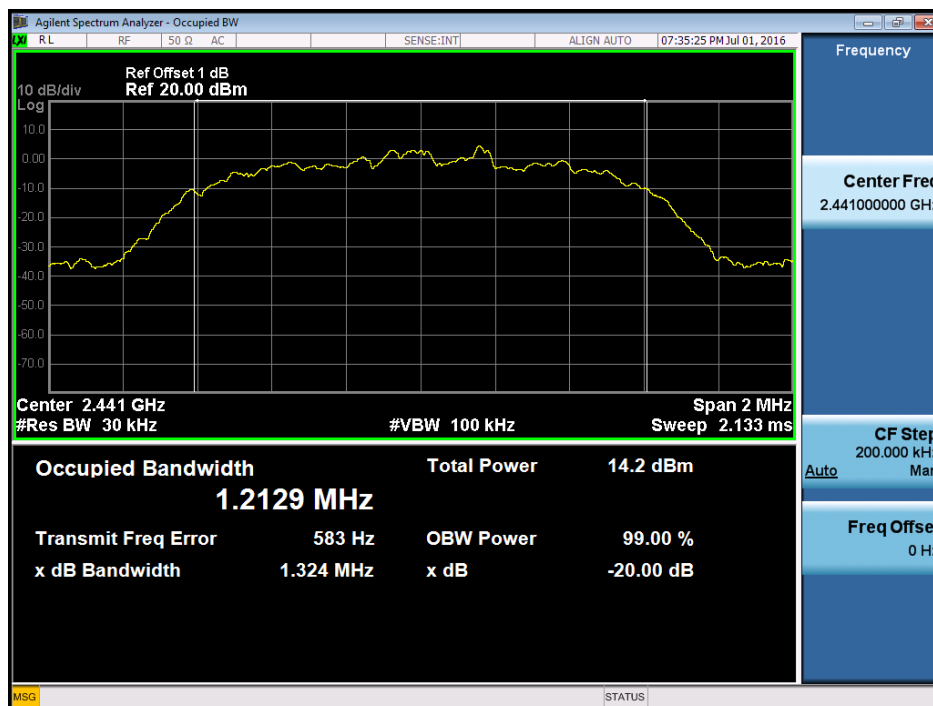
Test Mode :	TX Mode _3Mbps
-------------	----------------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.325	1.214	Pass
2441	1.324	1.213	Pass
2480	1.317	1.220	Pass

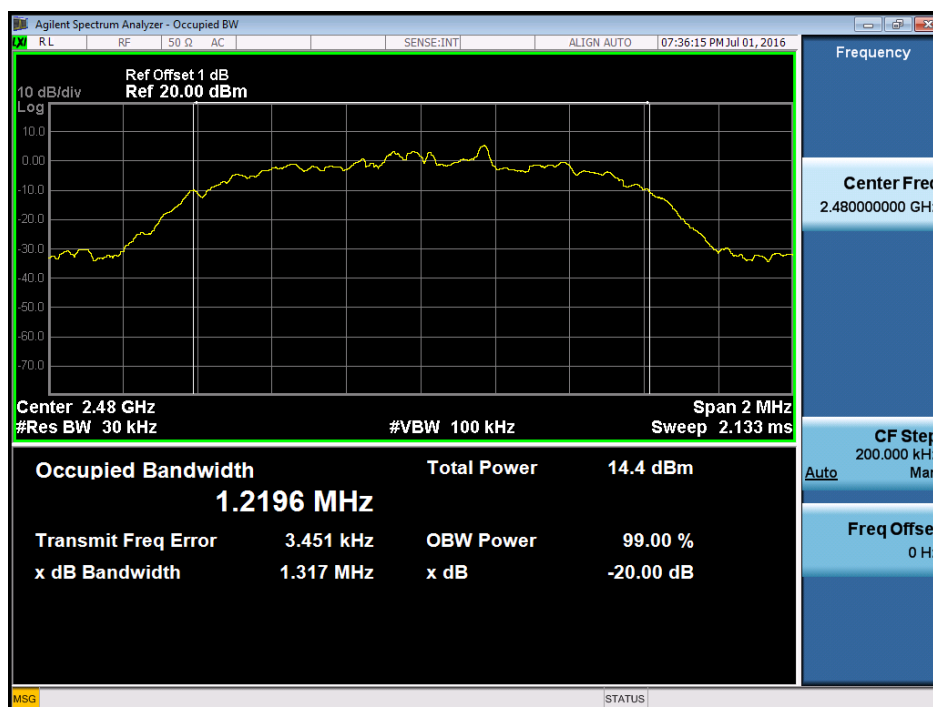
CH00



CH39



CH78

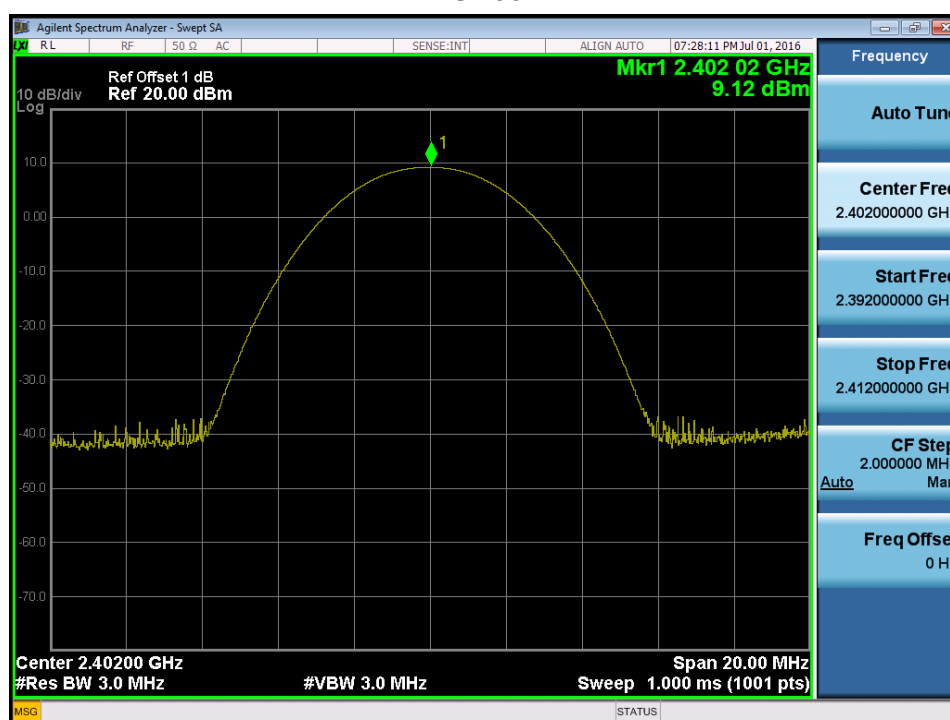


ATTACHMENT I - PEAK OUTPUT POWER

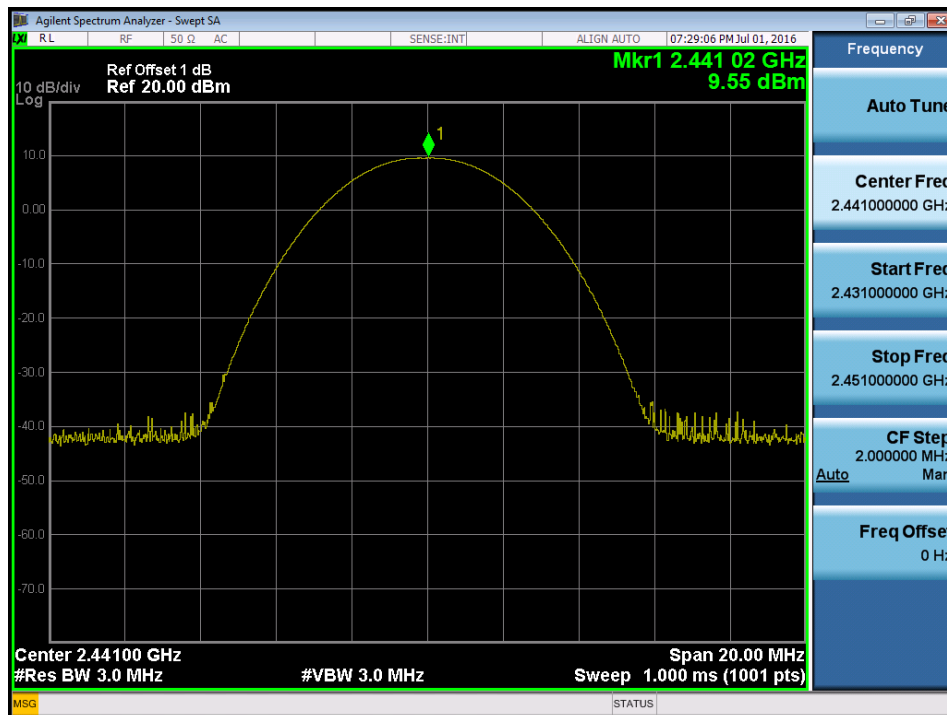
Test Mode :	TX Mode _1Mbps
-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.12	0.0082	21.00	0.125	Pass
2441	9.55	0.0090	21.00	0.125	Pass
2480	8.87	0.0077	21.00	0.125	Pass

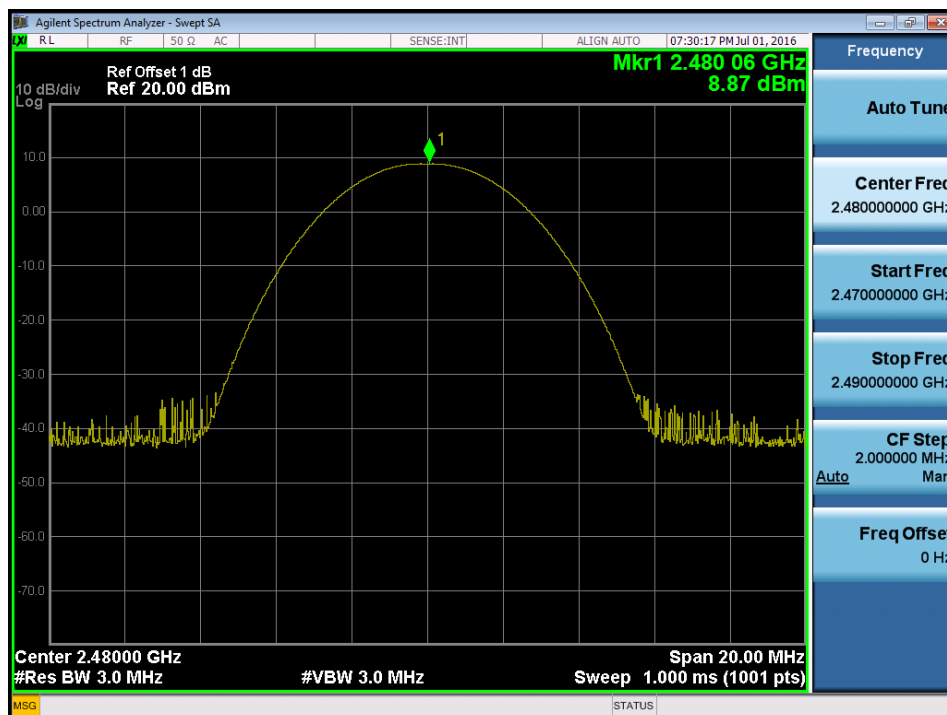
CH00



CH39



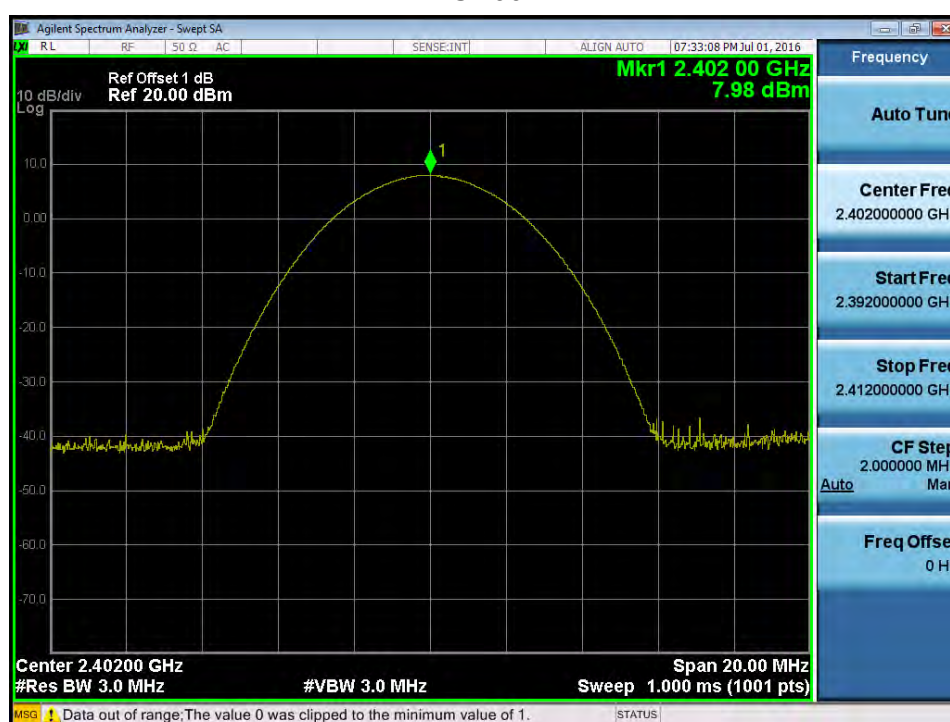
CH78



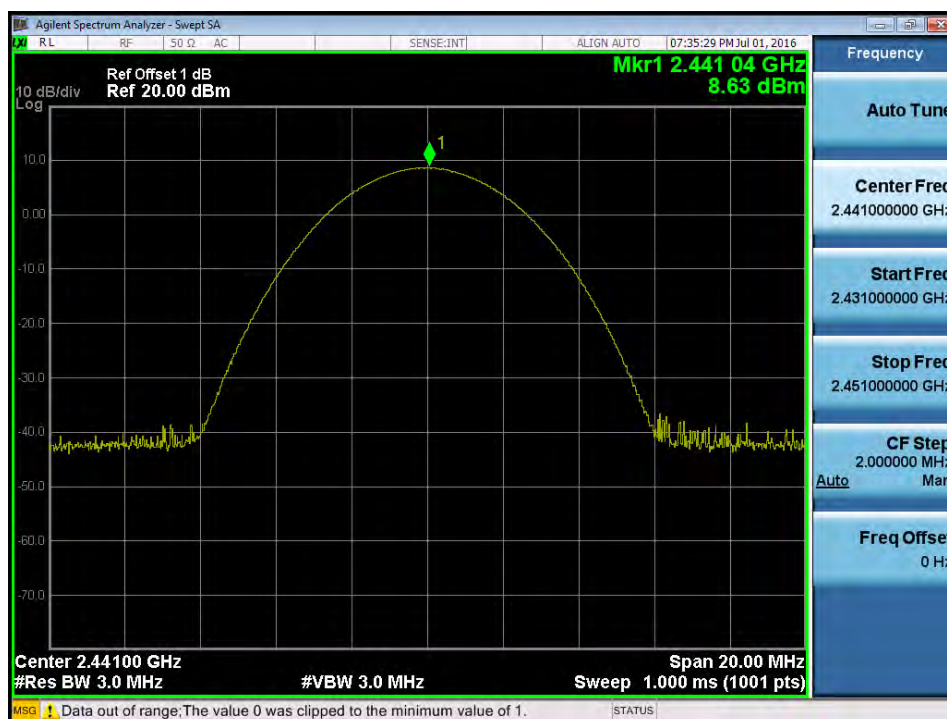
Test Mode :	TX Mode _3Mbps
-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.98	0.0063	21.00	0.125	Pass
2441	8.63	0.0073	21.00	0.125	Pass
2480	8.48	0.0070	21.00	0.125	Pass

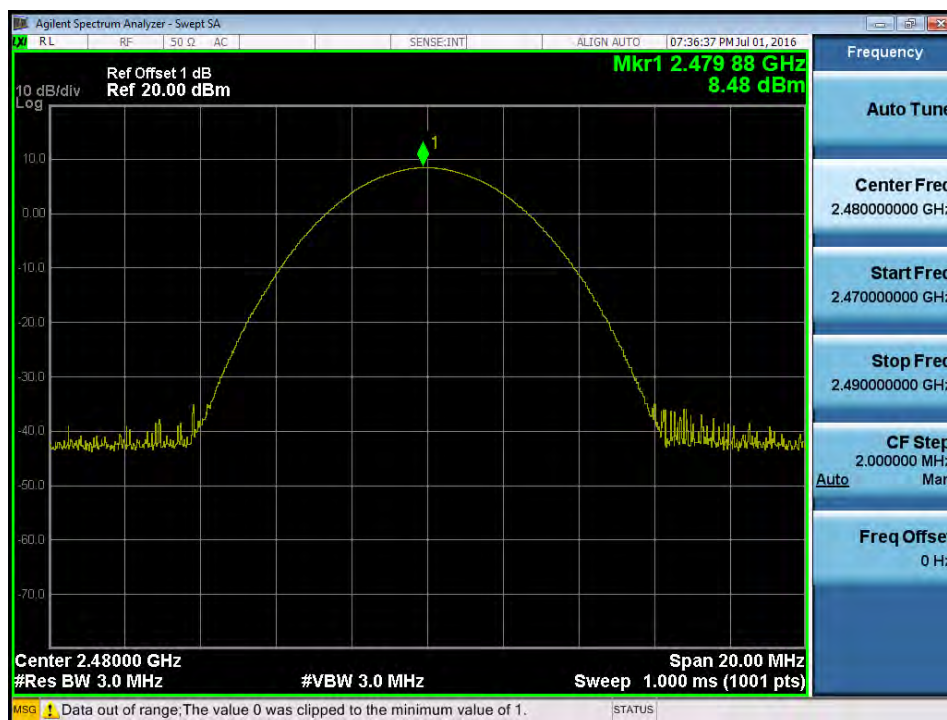
CH00



CH39

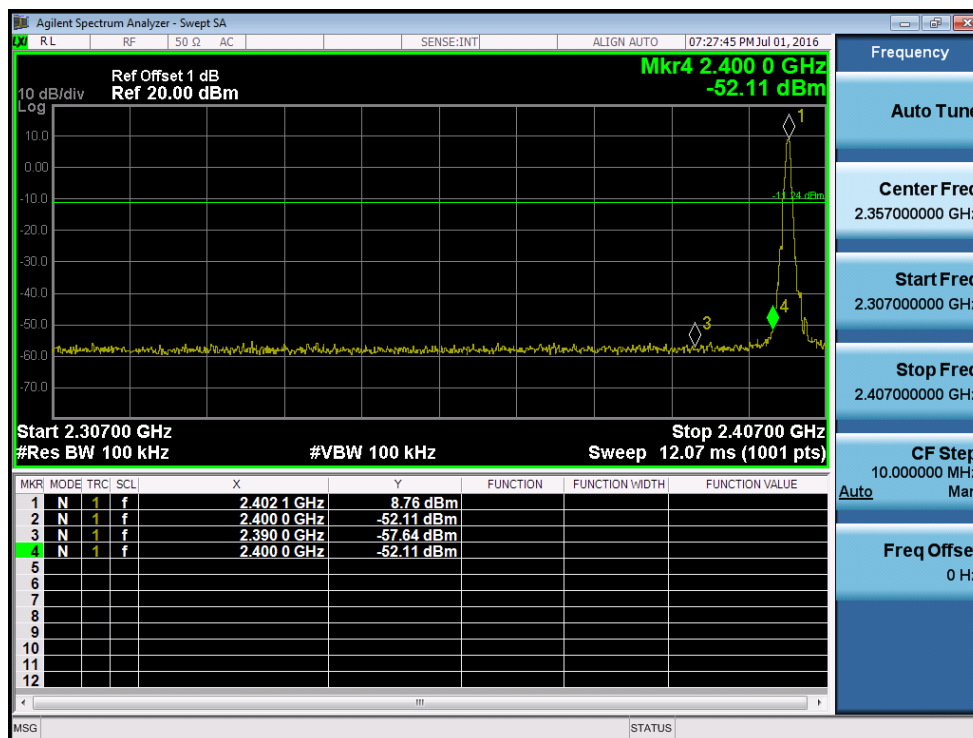


CH78

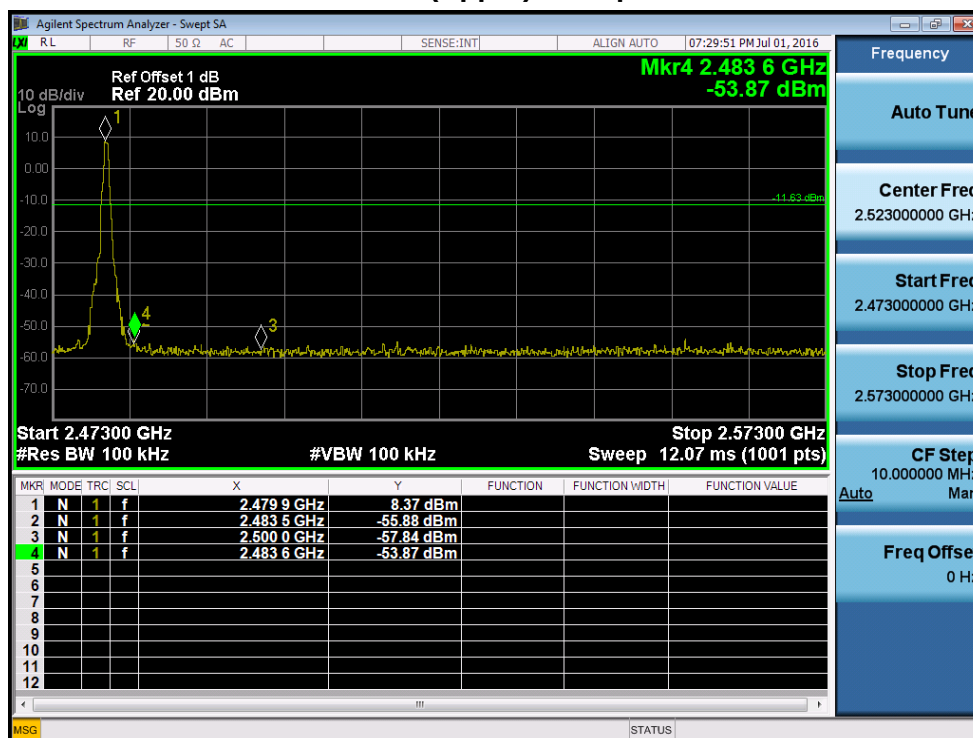


ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION

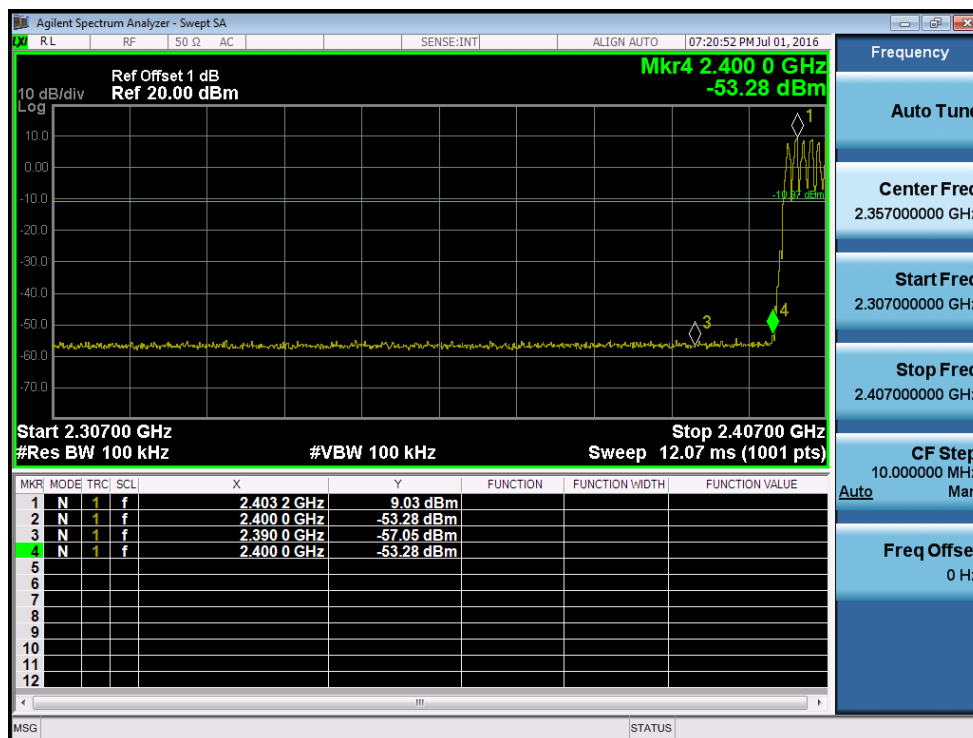
CH00 (Lower)_1Mbps



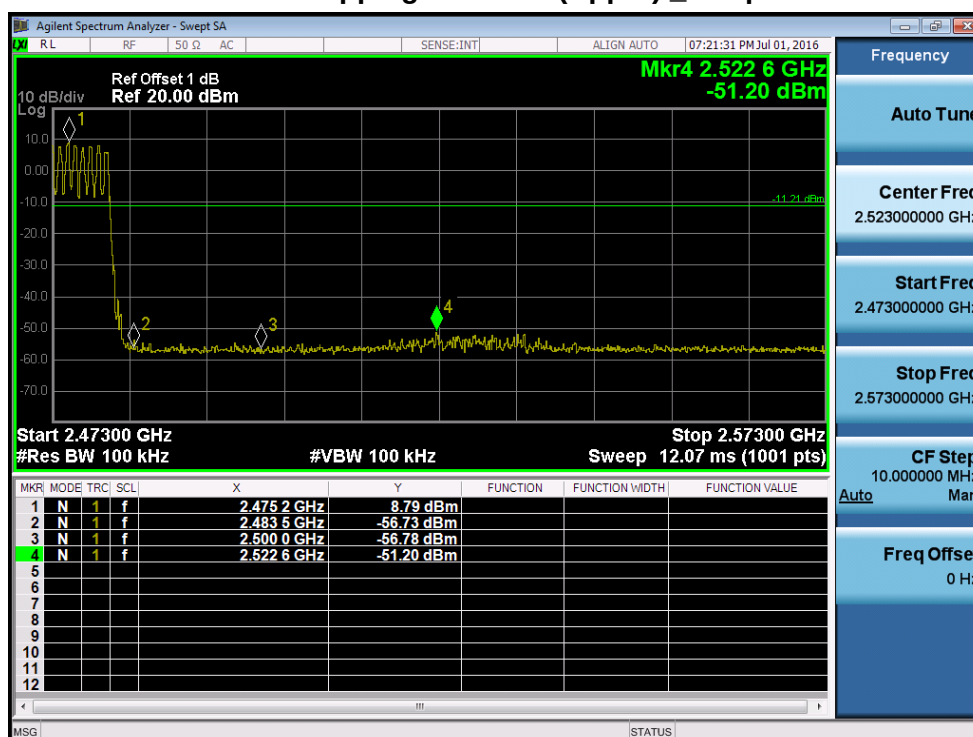
CH78 (Upper)_1Mbps



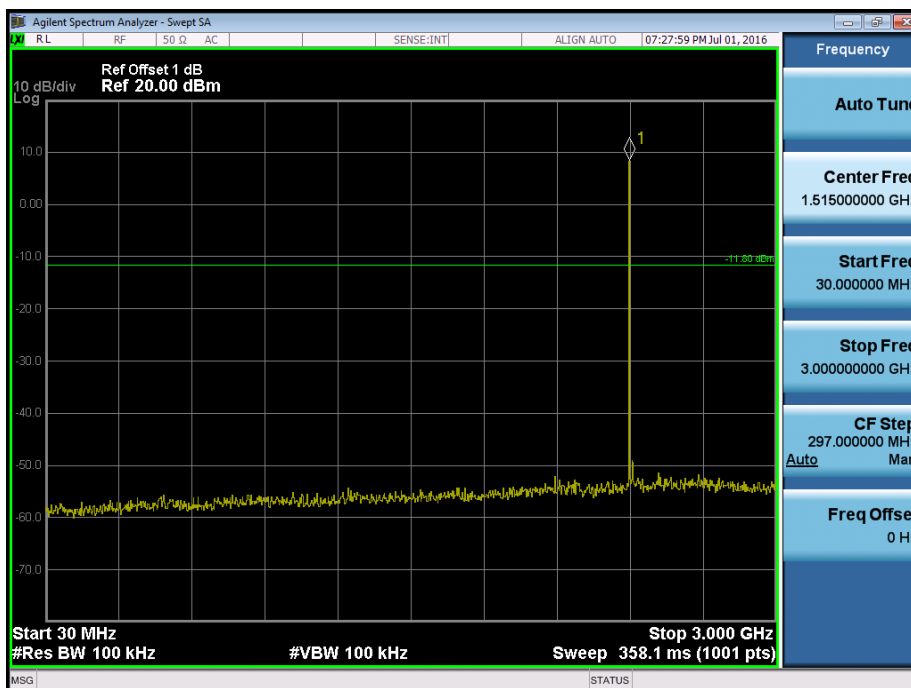
CH00 Hopping on mode (Lower)_1Mbps



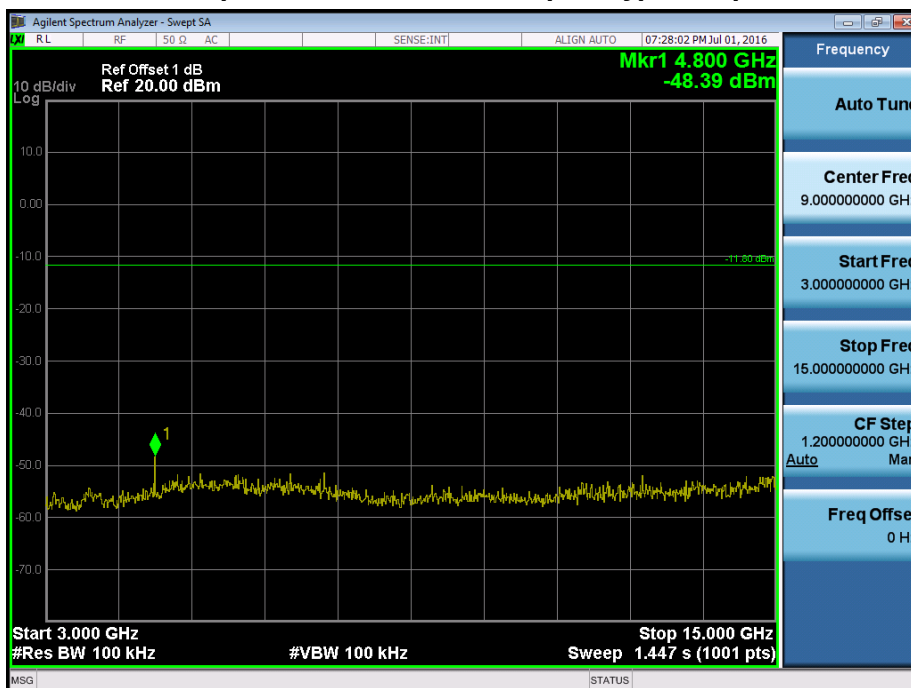
CH78 Hopping on mode (Upper)_1Mbps



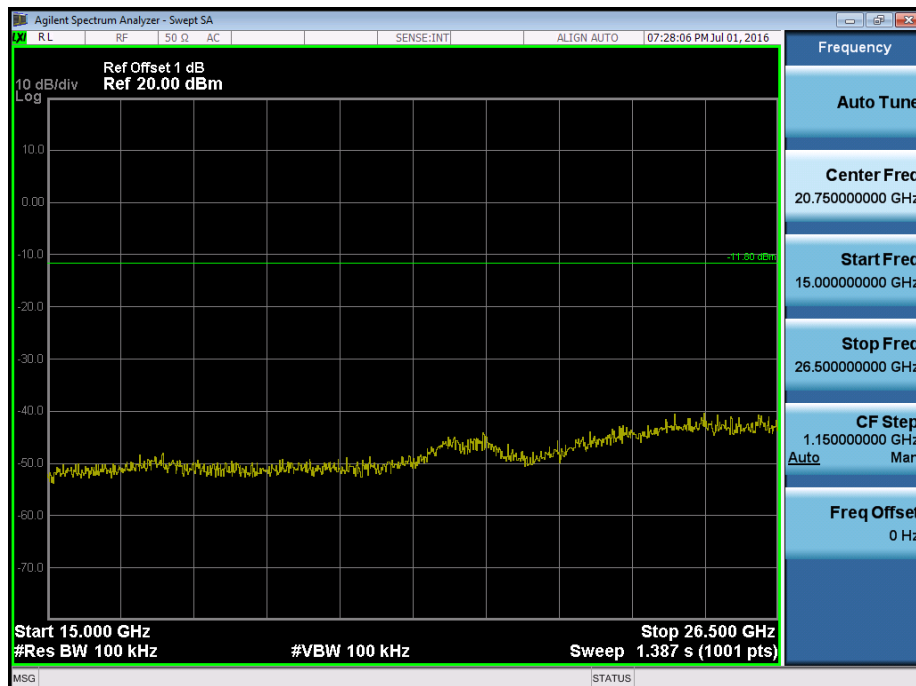
CH00 (10 Harmonic of the frequency) _1Mbps_1



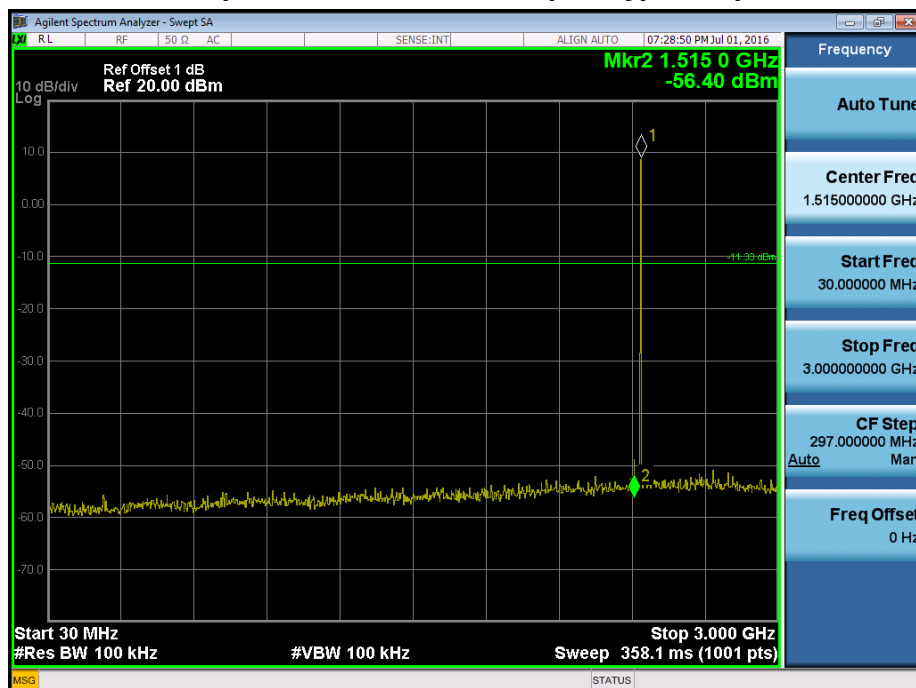
CH00 (10 Harmonic of the frequency) _1Mbps_2



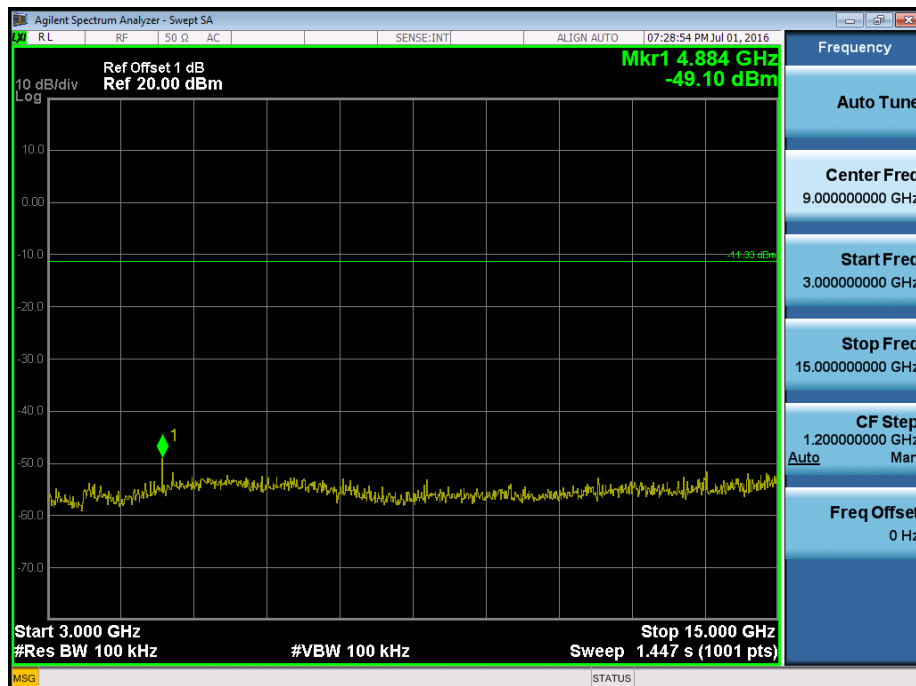
CH00 (10 Harmonic of the frequency) _1Mbps_3



CH39 (10 Harmonic of the frequency) _1Mbps_1



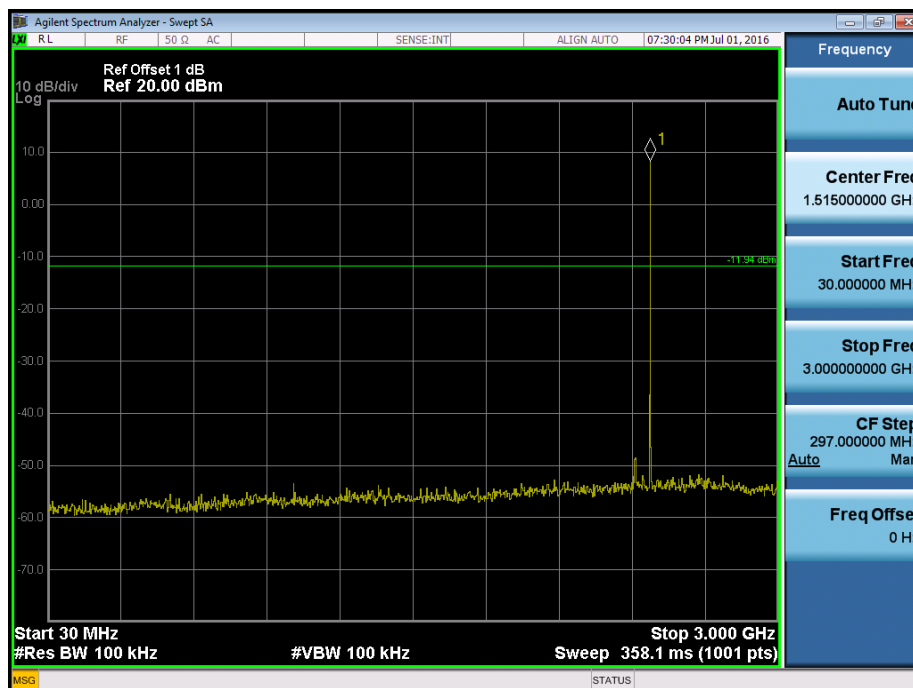
CH39 (10 Harmonic of the frequency) _1Mbps_2



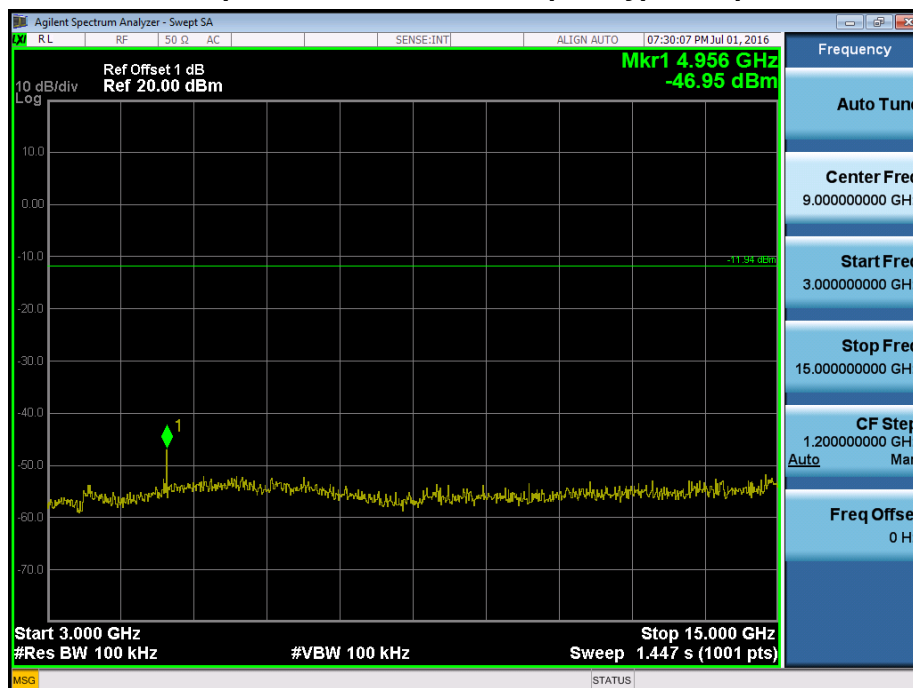
CH39 (10 Harmonic of the frequency) _1Mbps_3



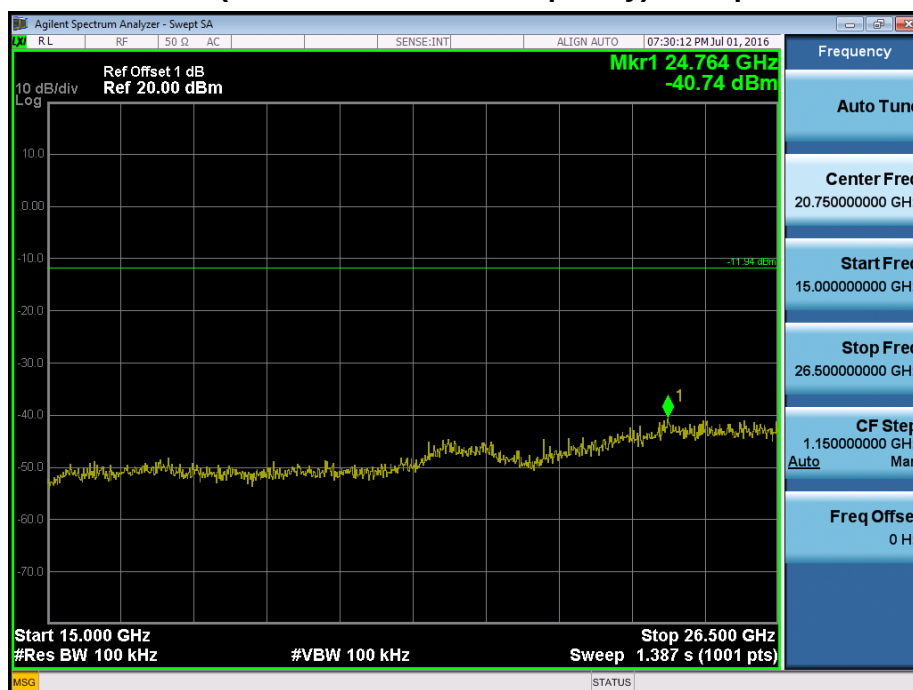
CH78 (10 Harmonic of the frequency) _1Mbps_1



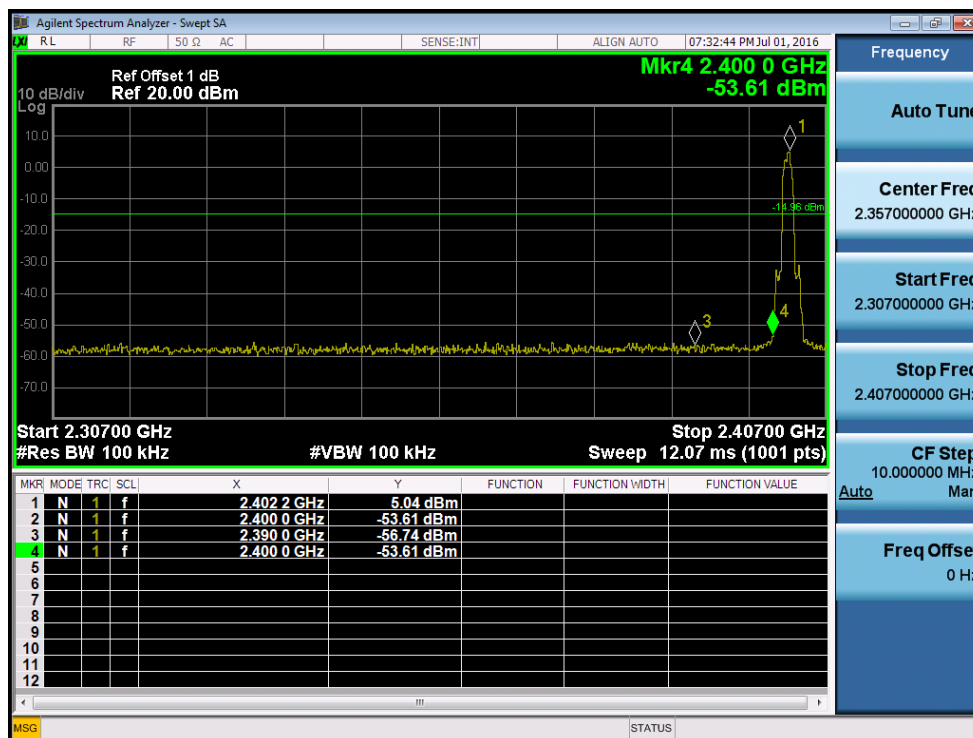
CH78 (10 Harmonic of the frequency) _1Mbps_2



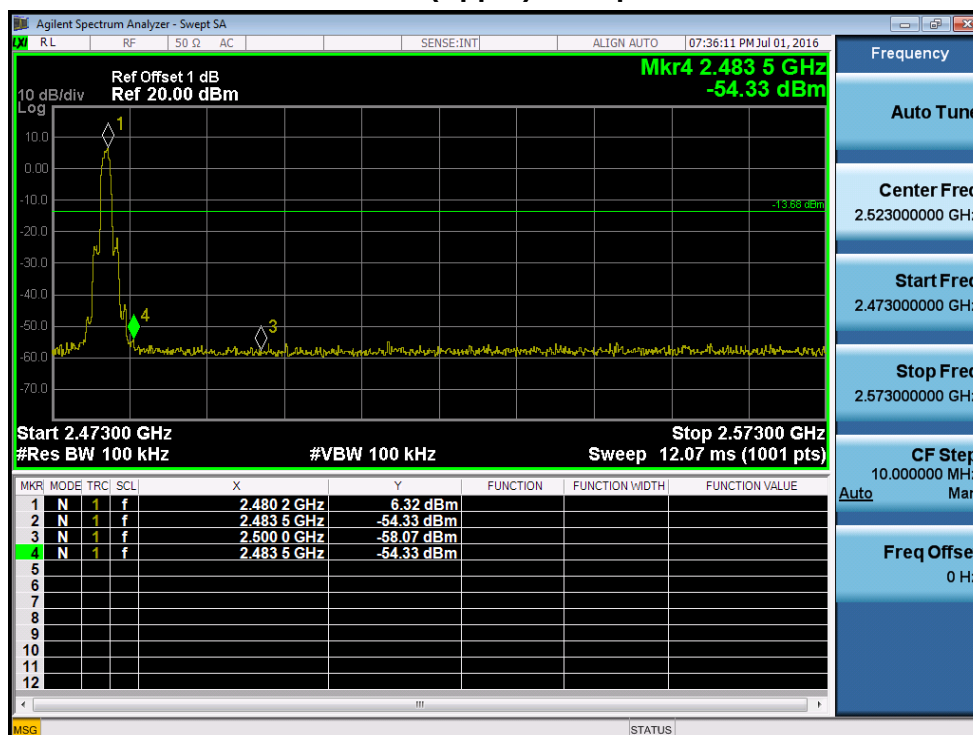
CH78 (10 Harmonic of the frequency) _1Mbps_3



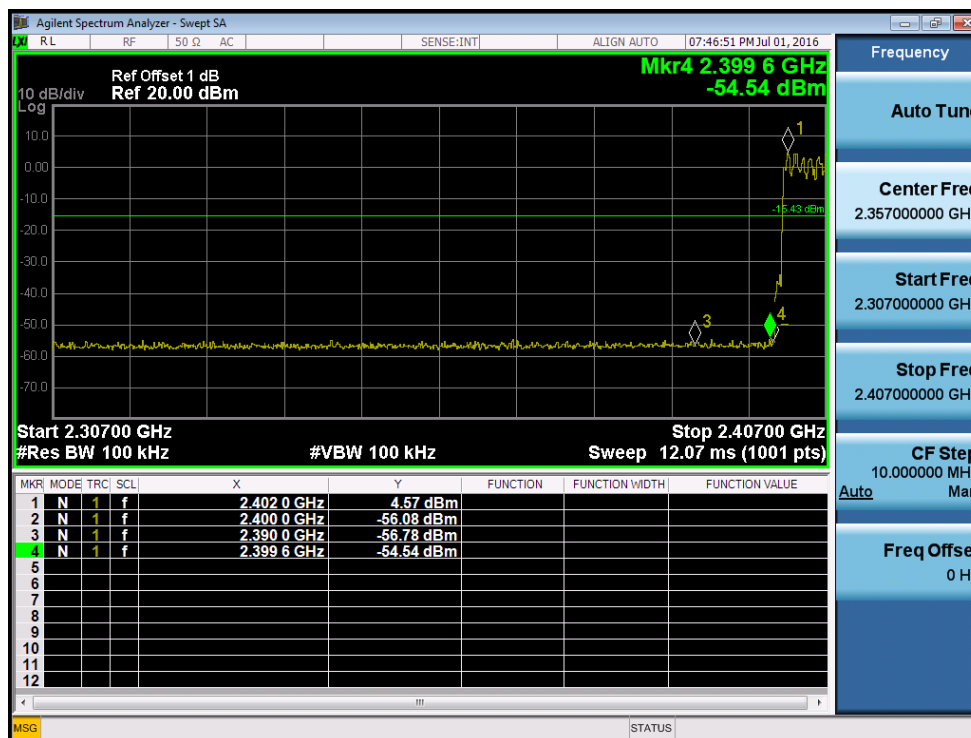
CH00 (Lower) _3Mbps



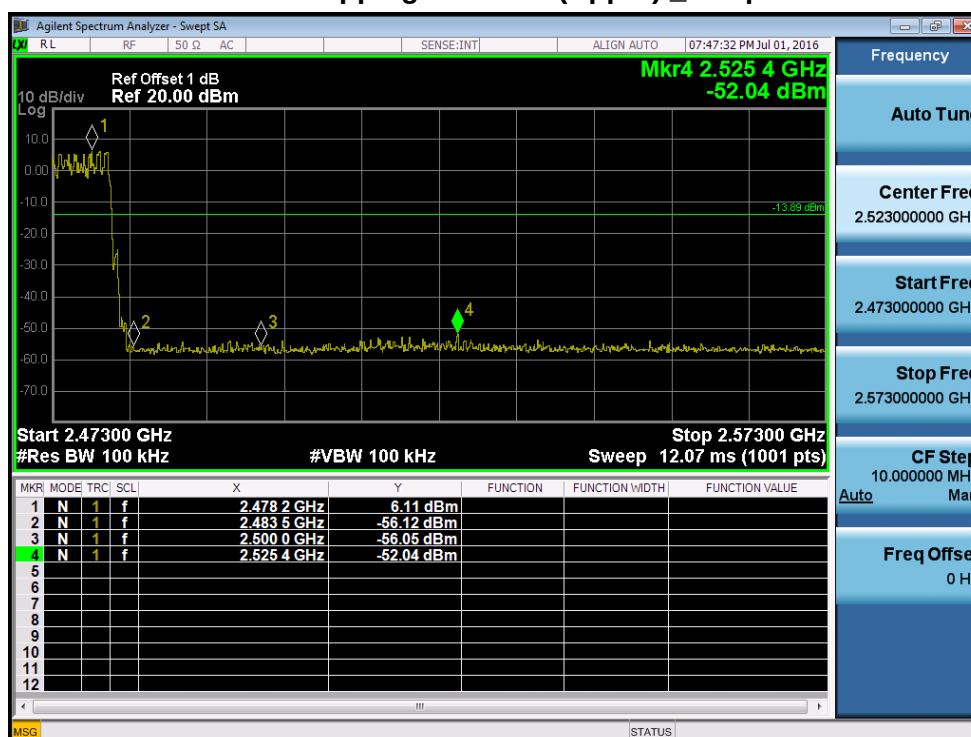
CH78 (Upper) _3Mbps



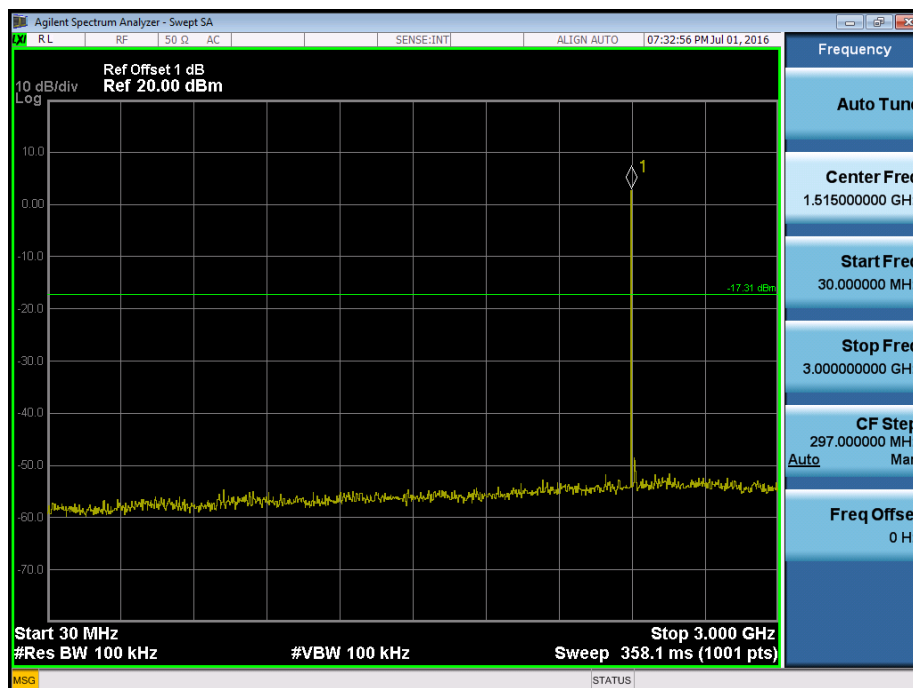
CH00 Hopping on mode (Lower)_3Mbps



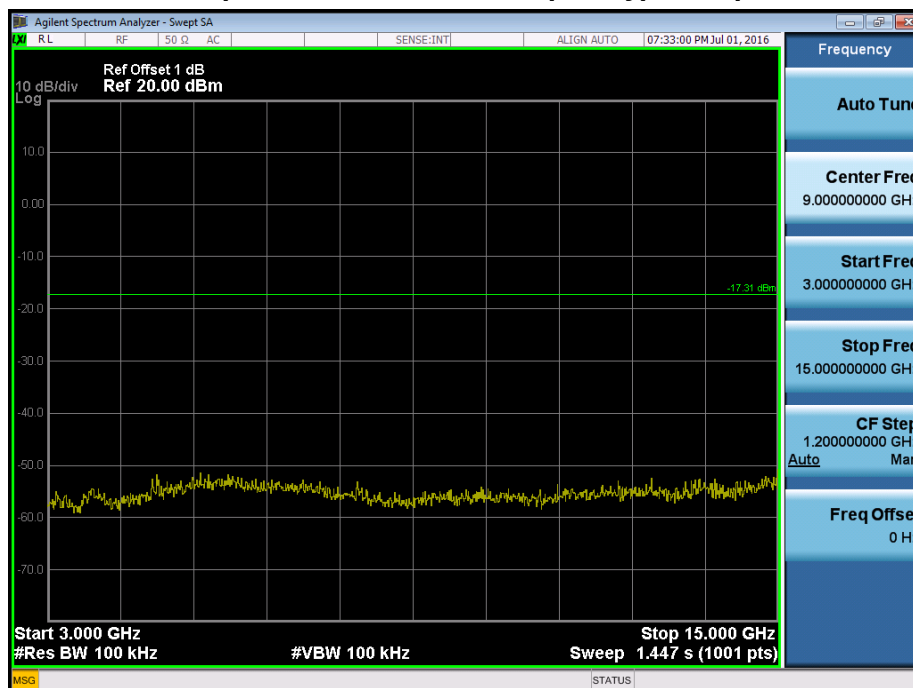
CH78 Hopping on mode (Upper)_3Mbps



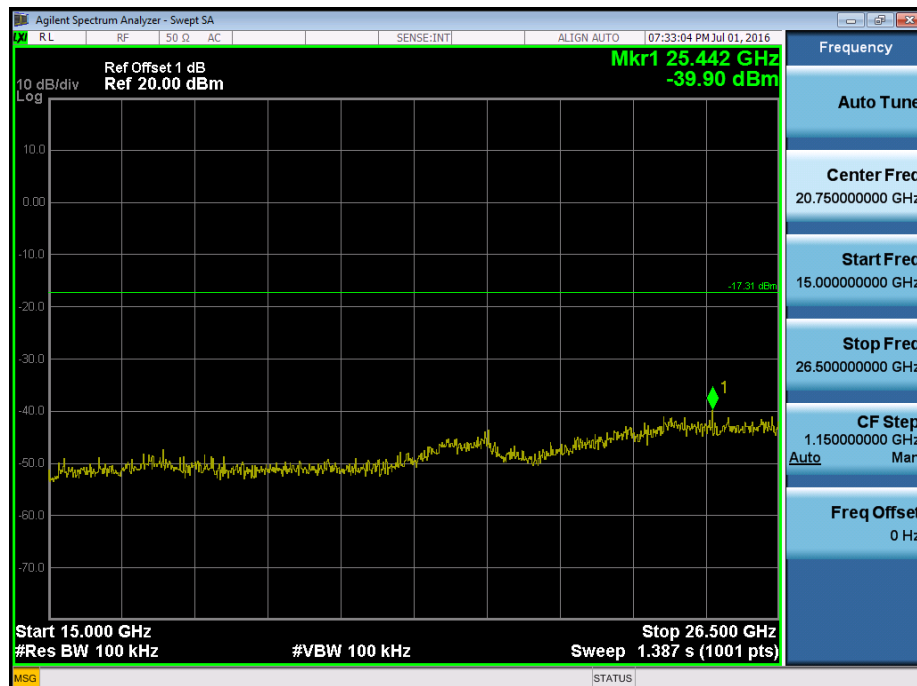
CH00 (10 Harmonic of the frequency) _3Mbps_1



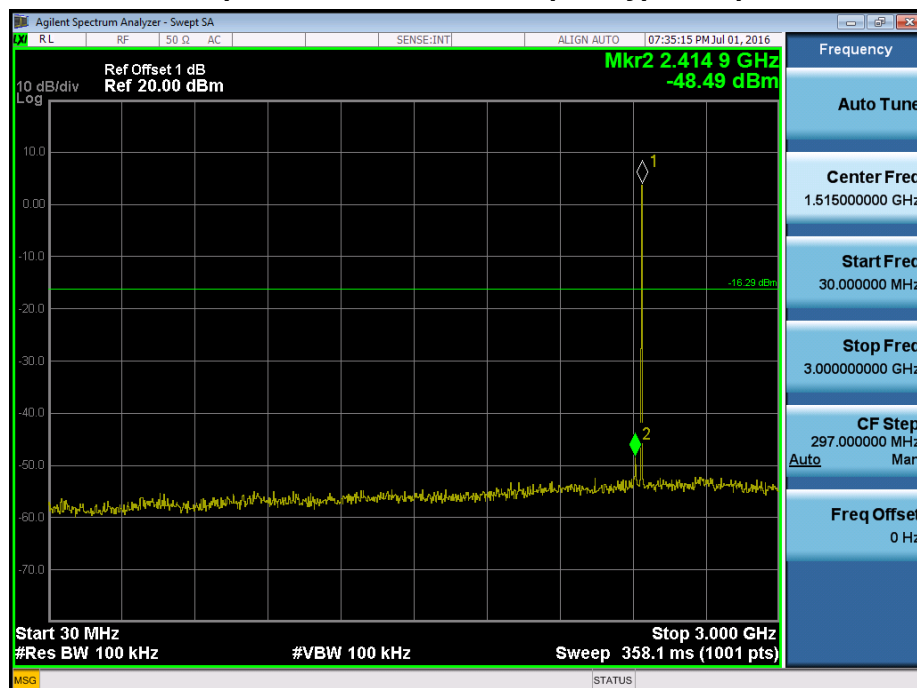
CH00 (10 Harmonic of the frequency) _3Mbps_2



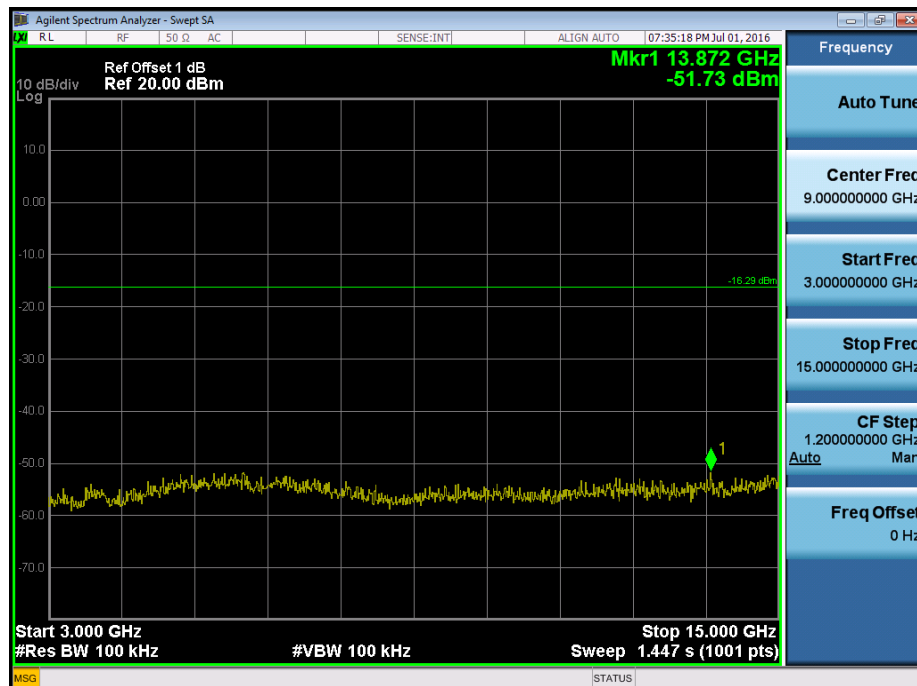
CH00 (10 Harmonic of the frequency) _3Mbps_3



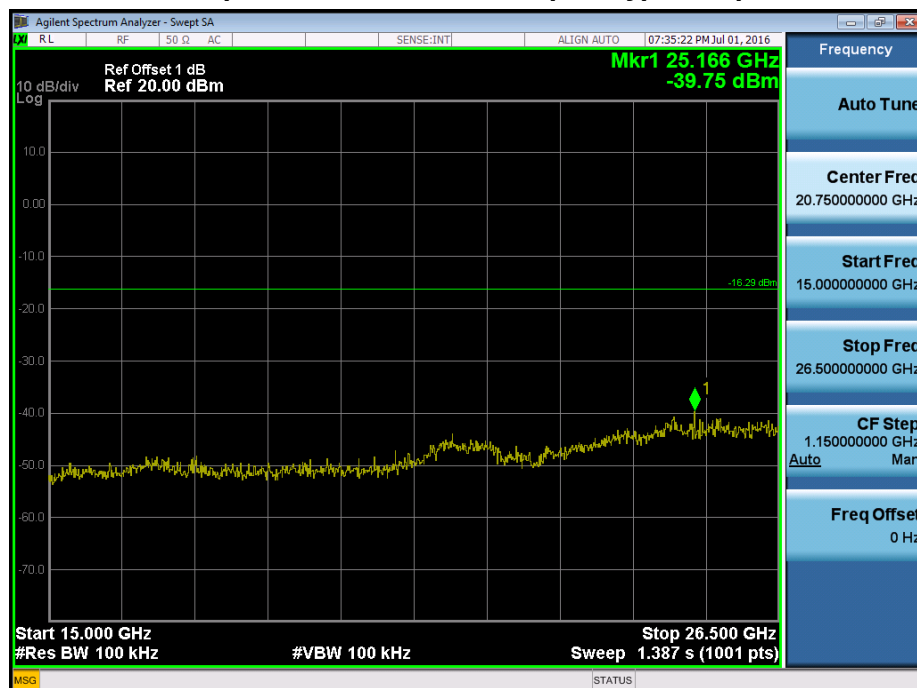
CH39 (10 Harmonic of the frequency) _3Mbps_1



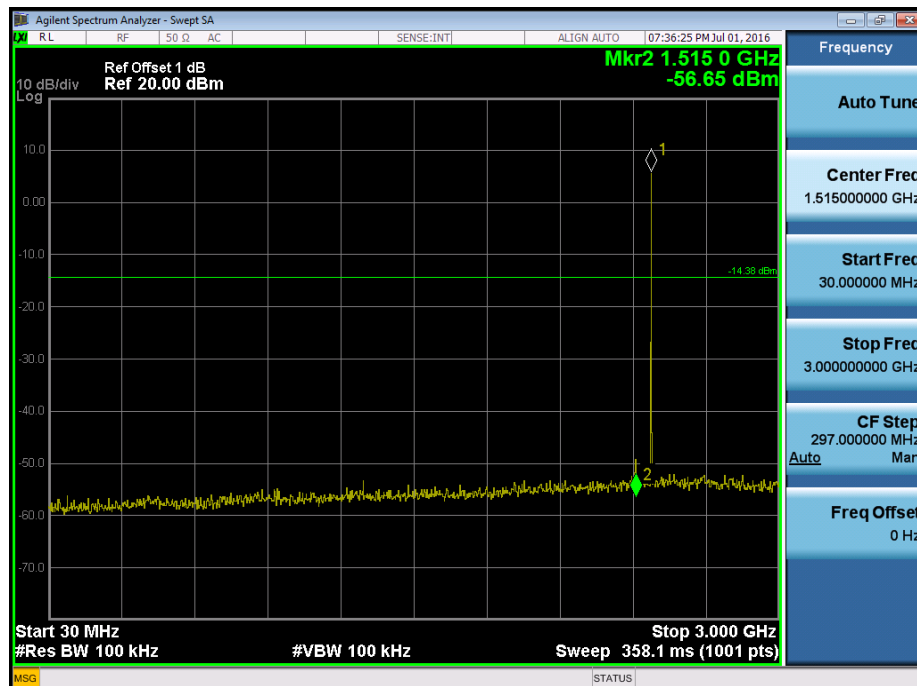
CH39 (10 Harmonic of the frequency) _3Mbps_2



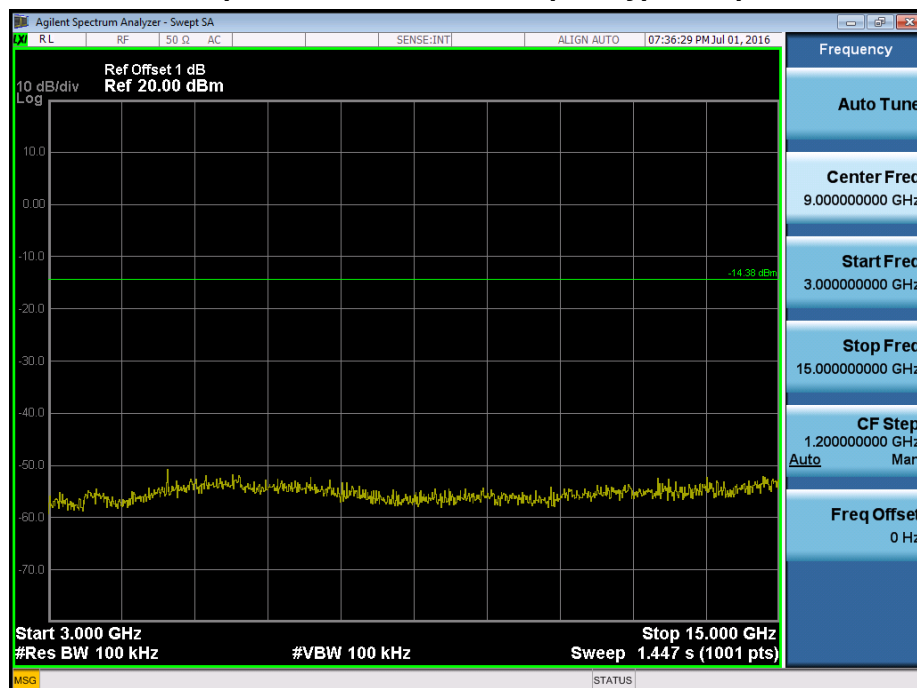
CH39 (10 Harmonic of the frequency) _3Mbps_3



CH78 (10 Harmonic of the frequency) _3Mbps_1



CH78 (10 Harmonic of the frequency) _3Mbps_2



CH78 (10 Harmonic of the frequency) _3Mbps_3

