

FCC Radio Test Report

FCC ID: SIB-BGTAB-NV24A-1

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

Project No. : 1411C077
Equipment : dreamtab
Model Name : BGTAB-NV24A
Applicant : Foxconn International Inc
Address : NO 2 ZIYOU ST TUCHENG DISTRICT NEW
TAIPEI,236 Taiwan

Date of Receipt : Nov. 10, 2014
Date of Test : Nov. 10, 2014~Nov. 25, 2014
Issued Date : Nov. 26, 2014
Tested by : BTL Inc.

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Declaration

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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-1-1411C077	Original Issue.	Nov. 26, 2014

1. CERTIFICATION

Equipment : dreamtab
Brand Name : Nabi
Model Name : BG TAB-NV24A
Applicant : Foxconn International Inc
Manufacturer : FUHU INC.
Address : 909N., Sepulveda Blvd., Suite 540, E1 Segundo, CA 90245
Factory : HONGFUJIN Precision Electronics (Chong Qing) Co., Ltd.
Address : No.1, 1st E District RD., Shapingba District, Chongqing 401332, P.R. China
Date of Test : Nov. 10, 2014~Nov. 25, 2014
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C : 2013 (15.247) / ANSI C63.4 : 2009 /
FCC Public Notice DA 00-705, March 30, 2000.

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-1-1411C077) 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): 47 CFR Part 15, Subpart C: 2013			
Standard(s) Section	Test Item	Judgment	Remark
FCC			
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247 (a)(1)	Hopping Channel Separation	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) According to FCC Public Notice DA 00-705, March 30, 2000.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dong Guan, Guangdong, China.523792
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 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)	Note
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	dreamtab	
Brand Name	Nabi	
Model Name	BGTAB-NV24A	
Model Difference	N/A	
Output Power (Max.)	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps) $\pi/4$ -DQPSK(2Mbps)
	Bit Rate of Transmitter	8-DPSK(3Mbps)
	Output Power Max.	-1.26 dBm(1Mbps) -2.39 dBm(3Mbps)
Power Source	#1 DC supplied from AC Adapter. Model: ADS-65LSI-19-3 19065G #2 Supplied from rechargeable Li-ion polymer battery. 1) Brand / Model: McNair / MLP2462113-2S 2) Manufacturer: HongKong Highpower Technology Co., Ltd Model: IN484	
Power Rating	#1 I/P AC 100-240V~ 50/60Hz 1.5A O/P: DC 19V 3.42A #2 7.4V 1650mAh 12.21Wh	

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

Group 1

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	FOXCONN	PCA-3007-25GC1-A2	Integral	N/A	-3.31	360mm
2	FOXCONN	PCA-3007-25GC1-A5	Integral	N/A	-4.52	65mm

Group 2

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	MAG Corporation	PCA-3007-25GC1-A2	Integral	N/A	0.2	360mm
2	MAG Corporation	PCA-3007-25GC1-A5	Integral	N/A	-0.93	65mm

Note: Two groups of antenna used with the same type, only differ in manufacturer and gain, group 2 is tested and recorded as the worst case in this report.

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX Mode Note (1)
Mode 2	Bluetooth

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 2	Bluetooth

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) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on Z-plane. Therefore only the test data of this Z-plane was used for radiated emission measurement test.

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

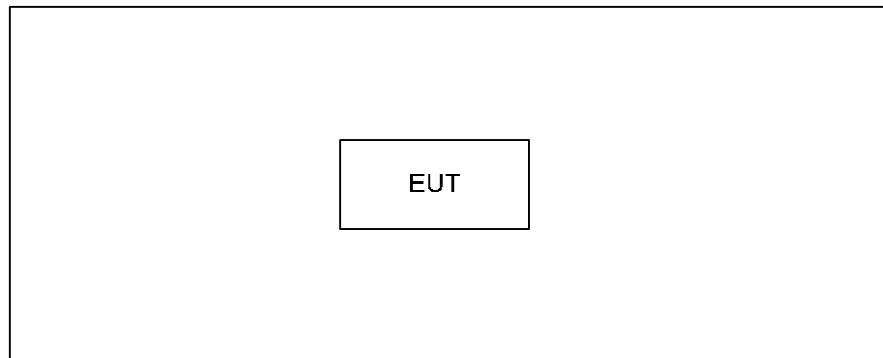
1Mbps

Test Software Version	N/A		
Frequency (MHz)	2402	2441	2480
Parameters	0X0	0X0	0X0

3Mbps

Test Software Version	N/A		
Frequency (MHz)	2402	2441	2480
Parameters	0X0	0X0	0X0

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/IC	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

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

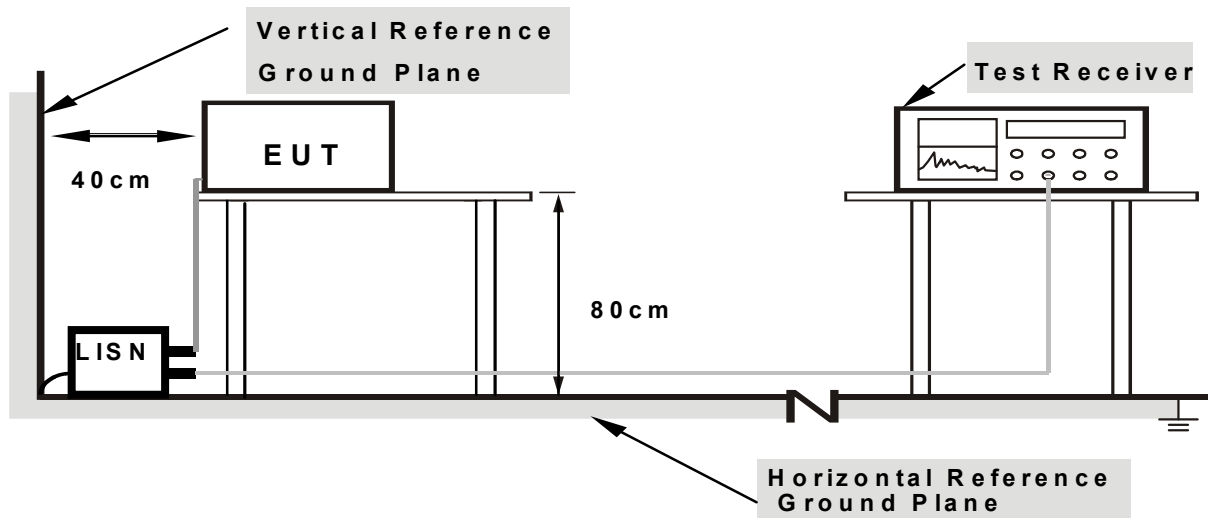
4.1.2 TEST PROCEDURE

- 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 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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)

20dB in any 100 KHz bandwidth outside the operating frequency band. 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).

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

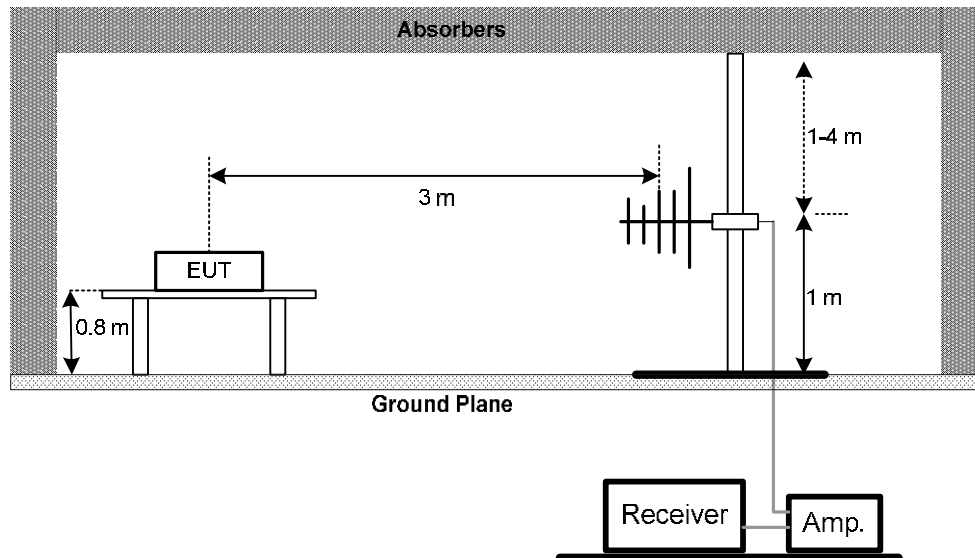
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

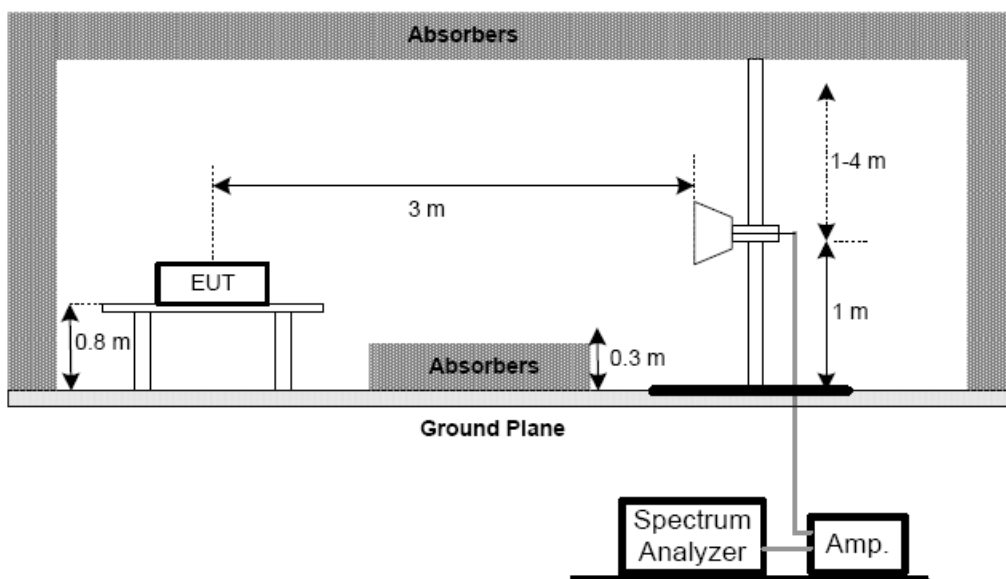
No deviation

4.2.4 TEST SETUP

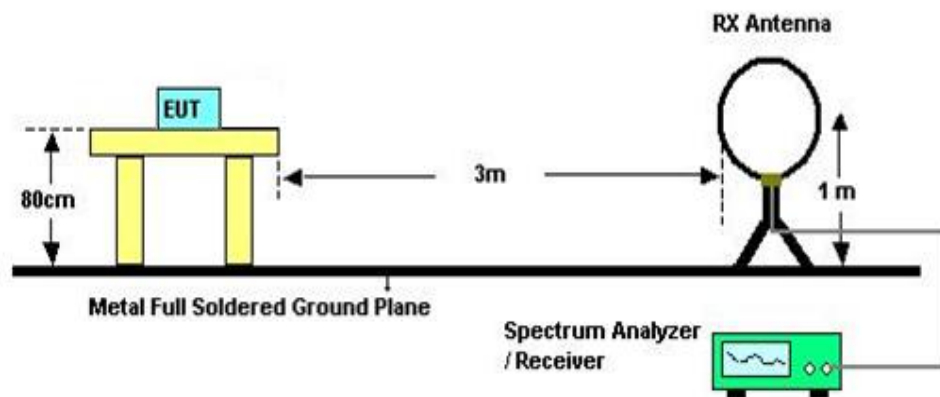
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: DC7.4V

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 (BETWEEN 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) 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.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (5) 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
- (6) 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: DC7.4V

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

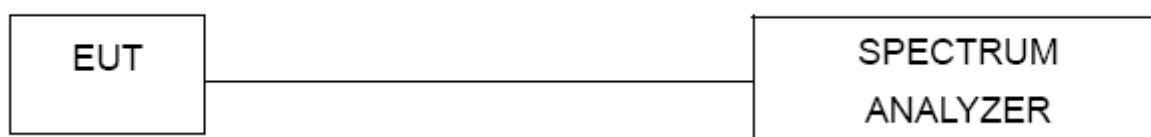
6.1.1 TEST PROCEDURE

- 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: DC7.4V

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

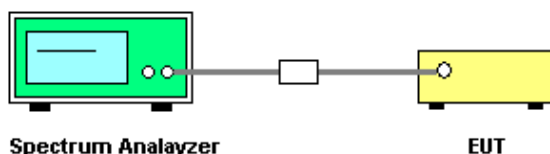
7.1.1 TEST PROCEDURE

- 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: DC7.4V

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: DC7.4V

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	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: DC7.4V

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

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.

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: DC7.4V

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	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Test Receiver	R&S	ESCI	100382	Mar. 29, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Antenna	ETS	3115	00075789	Mar. 29, 2015
6	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
7	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 02, 2015
8	Test Cable	HUBER+SUHNER	C-45	N/A	Mar. 29, 2015
9	Controller	CT	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015

Number of Hopping Channel

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Average Time of Occupancy

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Hopping Channel Separation Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Bandwidth

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Peak Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Antenna Conducted Spurious Emission

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

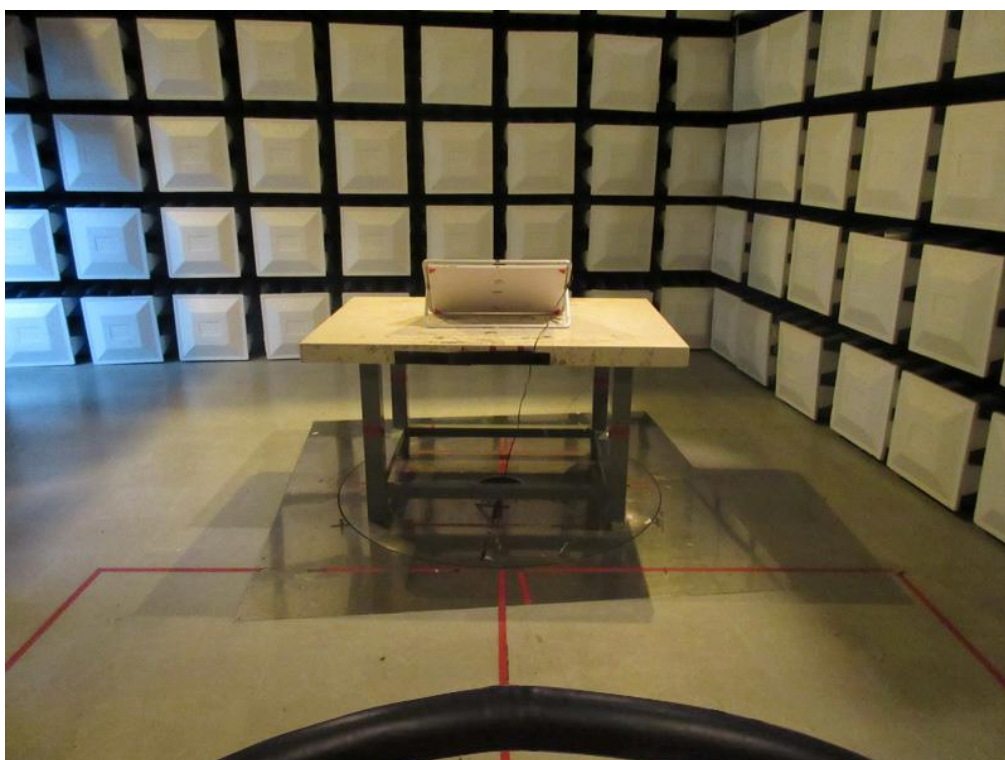
12. EUT TEST PHOTO

Conducted Measurement Photos



Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

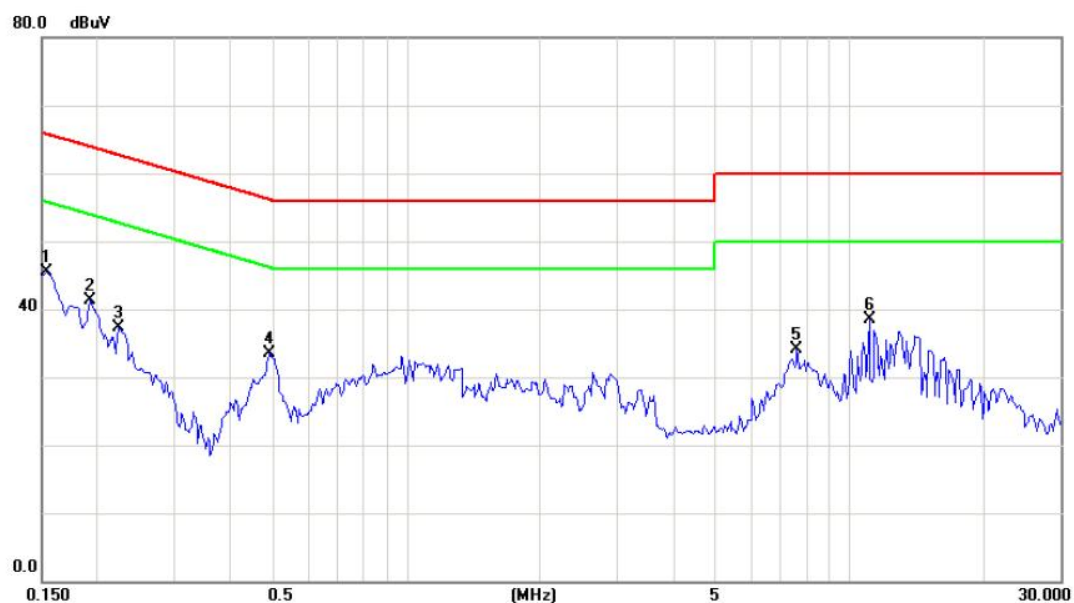
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode

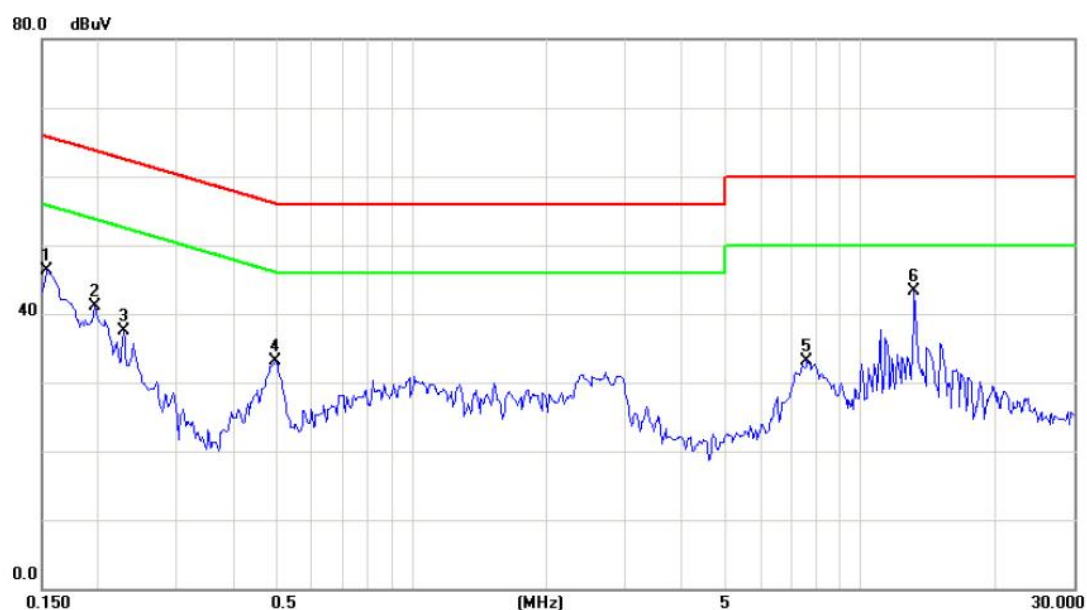
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1540	35.99	9.52	45.51	65.78	-20.27	peak	
2		0.1930	31.81	9.54	41.35	63.91	-22.56	peak	
3		0.2242	27.83	9.54	37.37	62.66	-25.29	peak	
4		0.4898	23.97	9.59	33.56	56.17	-22.61	peak	
5		7.6131	24.01	10.01	34.02	60.00	-25.98	peak	
6		11.0897	28.37	10.15	38.52	60.00	-21.48	peak	

Test Mode: TX Mode

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	36.88	9.52	46.40	65.78	-19.38	peak	
2		0.1968	31.63	9.53	41.16	63.74	-22.58	peak	
3		0.2280	27.95	9.53	37.48	62.52	-25.04	peak	
4		0.4975	23.61	9.58	33.19	56.04	-22.85	peak	
5		7.6367	23.05	10.03	33.08	60.00	-26.92	peak	
6	*	13.2110	32.89	10.36	43.25	60.00	-16.75	peak	

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

Test Mode: TX Mode

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0156	0°	12.25	24.58	36.83	103.74	-66.91	AVG
0.0156	0°	14.31	24.58	38.89	123.74	-84.85	PEAK
0.0311	0°	6.76	23.60	30.36	97.75	-67.39	AVG
0.0311	0°	7.91	23.60	31.51	117.75	-86.24	PEAK
0.0385	0°	4.23	23.13	27.36	95.90	-68.54	AVG
0.0385	0°	5.58	23.13	28.71	115.90	-87.19	PEAK
0.0470	0°	3.13	22.59	25.72	94.16	-68.44	AVG
0.0470	0°	4.79	22.59	27.38	114.16	-86.78	PEAK
2.0604	0°	28.11	19.46	47.57	69.54	-21.97	QP
3.3738	0°	20.43	18.94	39.37	69.54	-30.17	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0155	90°	12.98	24.30	37.28	123.80	-86.52	AVG
0.0155	90°	14.11	24.30	38.41	143.80	-105.39	PEAK
0.0311	90°	6.83	23.60	30.43	117.75	-87.32	AVG
0.0311	90°	7.76	23.60	31.36	137.75	-106.39	PEAK
0.0373	90°	5.92	23.20	29.12	116.17	-87.05	AVG
0.0373	90°	6.78	23.20	29.98	136.17	-106.19	PEAK
0.0470	90°	5.26	22.59	27.85	114.16	-86.31	AVG
0.0470	90°	6.11	22.59	28.70	134.16	-105.46	PEAK
2.0604	90°	28.79	19.46	48.25	69.54	-21.29	QP
3.2842	90°	17.56	18.93	36.49	69.54	-33.05	QP

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

Test Mode: TX 2402MHz _CH00_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	120.2100	49.57	-14.19	35.38	43.50	-8.12	peak	
2		203.6300	49.94	-15.14	34.80	43.50	-8.70	peak	
3		240.4900	45.36	-14.04	31.32	46.00	-14.68	peak	
4		549.9200	42.94	-7.93	35.01	46.00	-10.99	peak	
5		618.7900	43.57	-6.88	36.69	46.00	-9.31	peak	
6		960.2300	36.32	-0.25	36.07	54.00	-17.93	peak	

Test Mode: TX 2402MHz_CH00_1Mbps

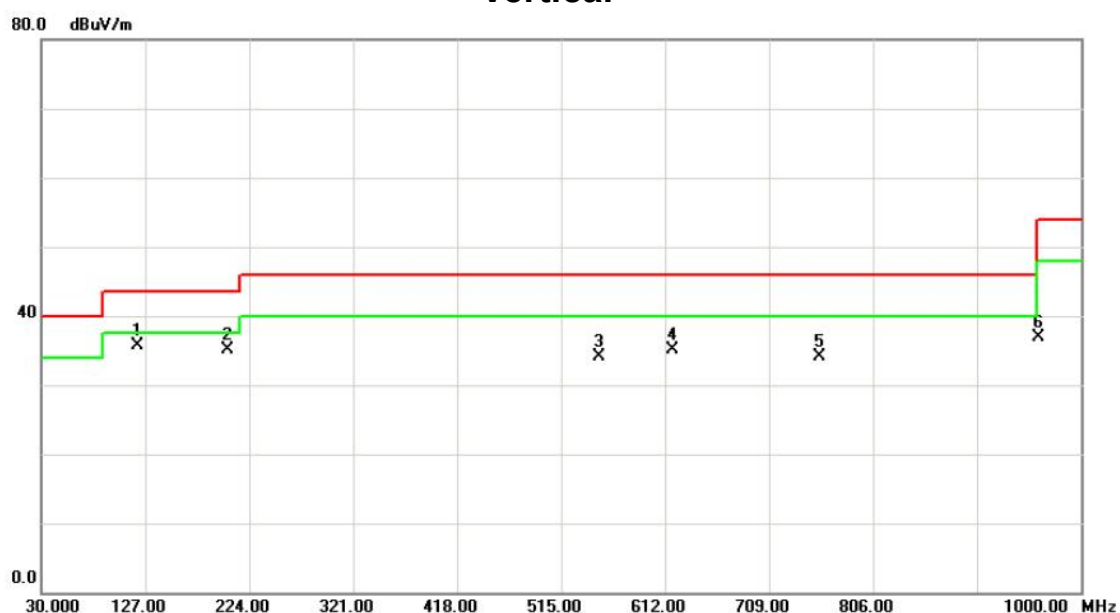
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		120.2100	48.75	-14.19	34.56	43.50	-8.94	peak	
2		184.2300	49.42	-13.57	35.85	43.50	-7.65	peak	
3	*	203.6300	54.42	-15.14	39.28	43.50	-4.22	peak	
4		240.4900	50.59	-14.04	36.55	46.00	-9.45	peak	
5		275.4100	48.06	-12.72	35.34	46.00	-10.66	peak	
6		756.5300	41.64	-4.40	37.24	46.00	-8.76	peak	

Test Mode: TX 2441MHz _CH39_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	120.2100	49.80	-14.19	35.61	43.50	-7.89	peak	
2		203.6300	50.28	-15.14	35.14	43.50	-8.36	peak	
3		549.9200	42.13	-7.93	34.20	46.00	-11.80	peak	
4		618.7900	42.04	-6.88	35.16	46.00	-10.84	peak	
5		756.5300	38.54	-4.40	34.14	46.00	-11.86	peak	
6		960.2300	37.16	-0.25	36.91	54.00	-17.09	peak	

Test Mode: TX 2441MHz _CH39_1Mbps

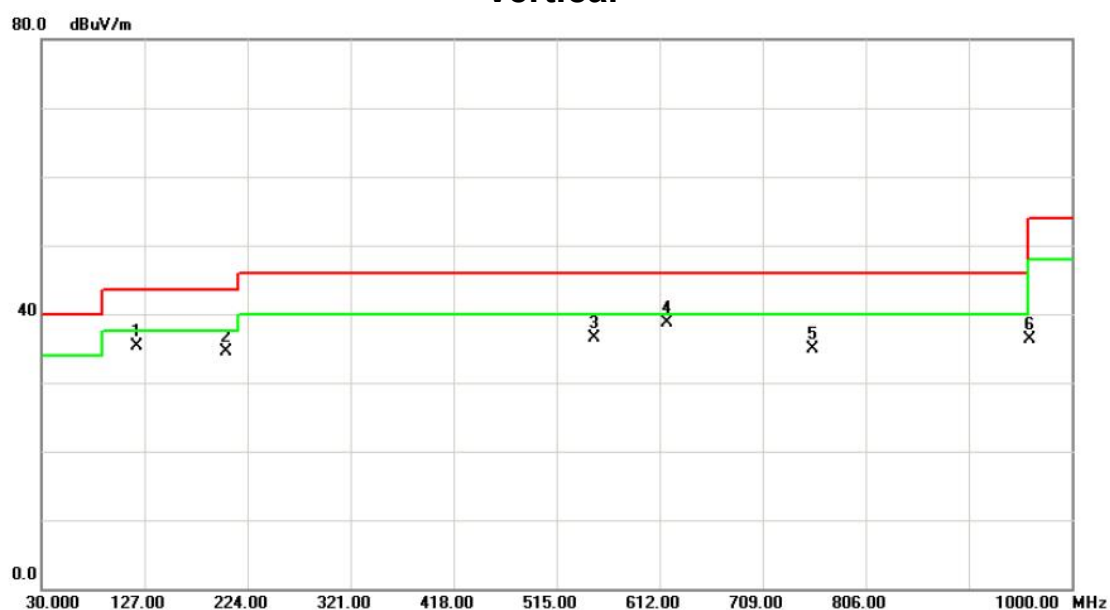
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	120.2100	48.68	-14.19	34.49	43.50	-9.01	peak	
2	184.2300	49.72	-13.57	36.15	43.50	-7.35	peak	
3 *	203.6300	53.55	-15.14	38.41	43.50	-5.09	peak	
4	240.4900	50.46	-14.04	36.42	46.00	-9.58	peak	
5	756.5300	39.55	-4.40	35.15	46.00	-10.85	peak	
6	960.2300	36.64	-0.25	36.39	54.00	-17.61	peak	

Test Mode: TX 2480MHz _CH78_1Mbps

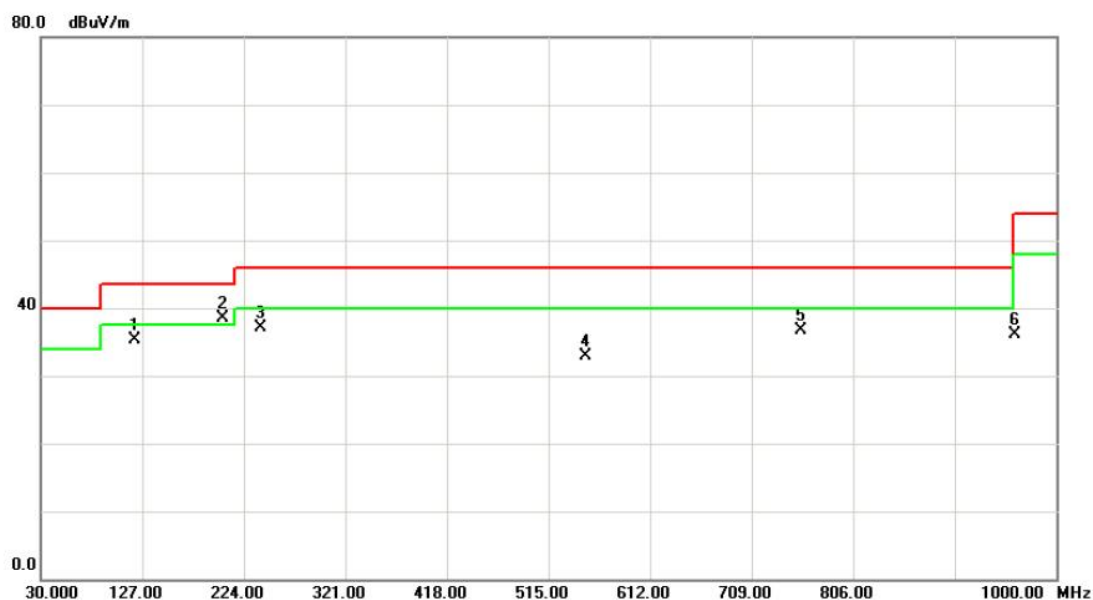
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	120.2100	49.47	-14.19	35.28	43.50	-8.22	peak	
2	203.6300	49.68	-15.14	34.54	43.50	-8.96	peak	
3	549.9200	44.46	-7.93	36.53	46.00	-9.47	peak	
4 *	618.7900	45.55	-6.88	38.67	46.00	-7.33	peak	
5	756.5300	39.31	-4.40	34.91	46.00	-11.09	peak	
6	960.2300	36.65	-0.25	36.40	54.00	-17.60	peak	

Test Mode: TX 2480MHz _CH78_1Mbps

Horizontal

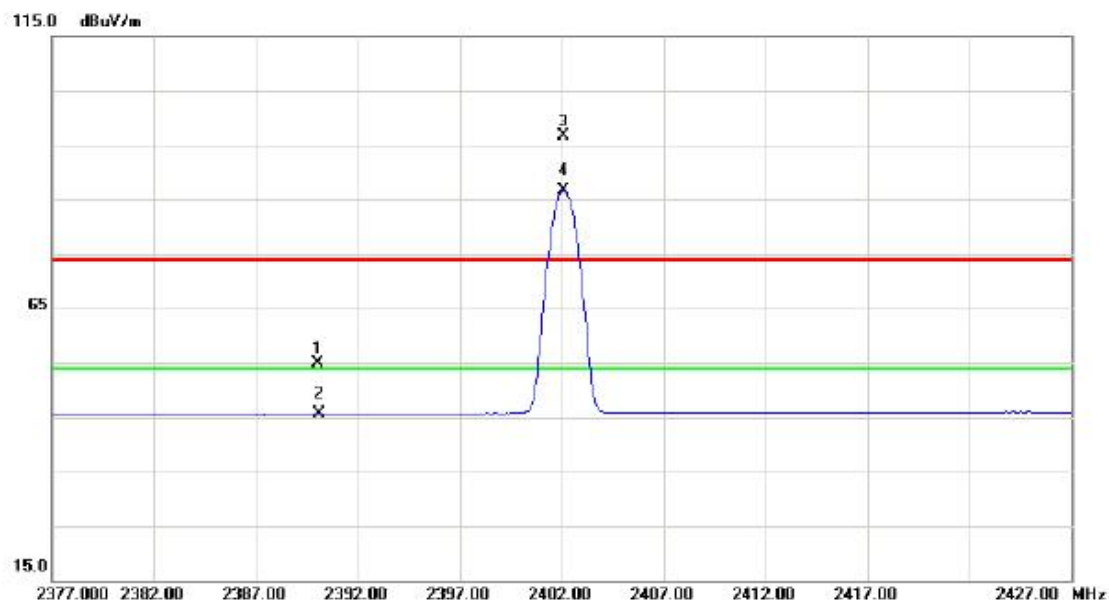


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		120.2100	49.41	-14.19	35.22	43.50	-8.28	peak	
2	*	203.6300	53.67	-15.14	38.53	43.50	-4.97	peak	
3		240.4900	51.10	-14.04	37.06	46.00	-8.94	peak	
4		549.9200	40.74	-7.93	32.81	46.00	-13.19	peak	
5		756.5300	41.08	-4.40	36.68	46.00	-9.32	peak	
6		960.2300	36.35	-0.25	36.10	54.00	-17.90	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	21.57	33.38	54.95	74.00	-19.05	peak	
2		2390.000	12.28	33.38	45.66	54.00	-8.34	AVG	
3	X	2402.100	63.11	33.41	96.52	74.00	22.52	peak	NO LIMIT
4	*	2402.100	53.23	33.41	86.64	54.00	32.64	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

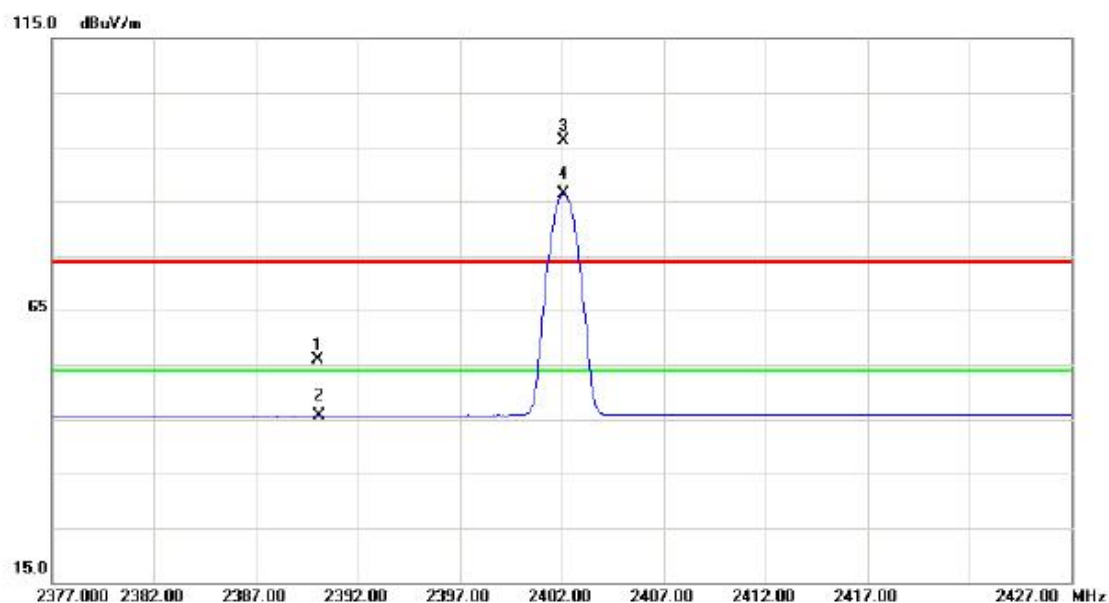
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.970	38.14	6.38	44.52	74.00	-29.48	peak	
2	*	4803.970	29.43	6.38	35.81	54.00	-18.19	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2402MHz_CH00_1Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	22.39	33.38	55.77	74.00	-18.23	peak	
2		2390.000	12.17	33.38	45.55	54.00	-8.45	AVG	
3	X	2402.100	62.68	33.41	96.09	74.00	22.09	peak	NO LIMIT
4	*	2402.100	53.07	33.41	86.48	54.00	32.48	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

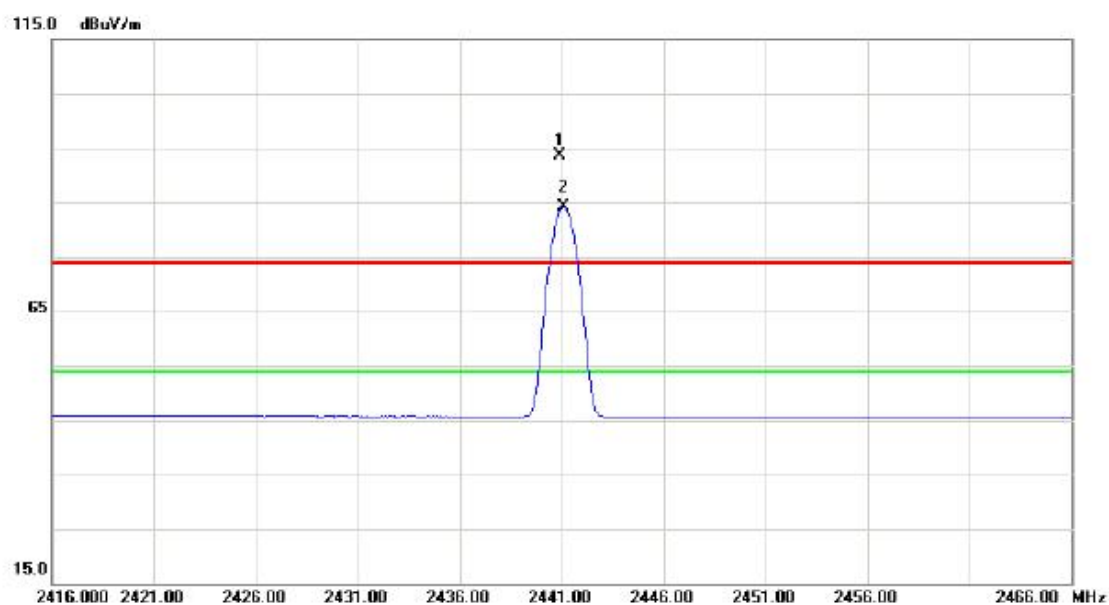
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.930	36.97	6.38	43.35	74.00	-30.65	peak	
2	*	4803.930	28.34	6.38	34.72	54.00	-19.28	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2441MHz_CH39_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.900	60.13	33.51	93.64	74.00	19.64	peak	NO LIMIT
2	*	2441.100	50.61	33.51	84.12	54.00	30.12	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2441MHz _CH39_1Mbps

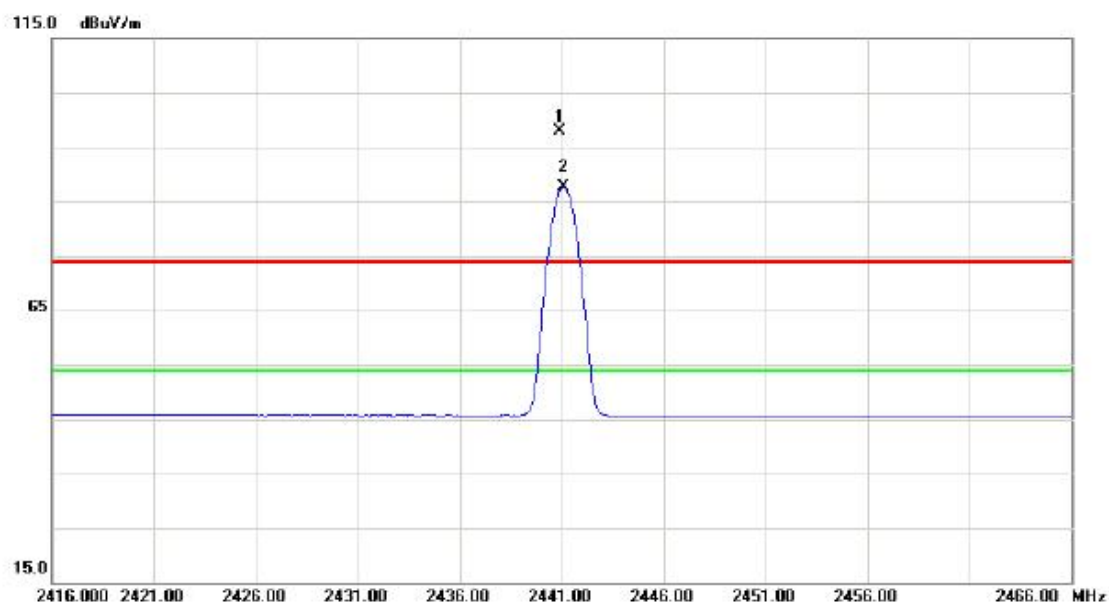
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4881.820	37.74	6.61	44.35	74.00	-29.65	peak	
2	*	4881.820	28.96	6.61	35.57	54.00	-18.43	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2441MHz _CH39_1Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.900	64.48	33.51	97.99	74.00	23.99	peak	NO LIMIT
2	*	2441.100	54.11	33.51	87.62	54.00	33.62	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2441MHz _CH39_1Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4882.110	35.71	6.61	42.32	74.00	-31.68	peak	
2	*	4882.110	27.53	6.61	34.14	54.00	-19.86	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz_CH78_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.150	58.34	33.61	91.95	74.00	17.95	peak	NO LIMIT
2	*	2480.150	48.91	33.61	82.52	54.00	28.52	AVG	NO LIMIT
3		2483.500	21.09	33.62	54.71	74.00	-19.29	peak	
4		2483.500	11.93	33.62	45.55	54.00	-8.45	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH78_1Mbps

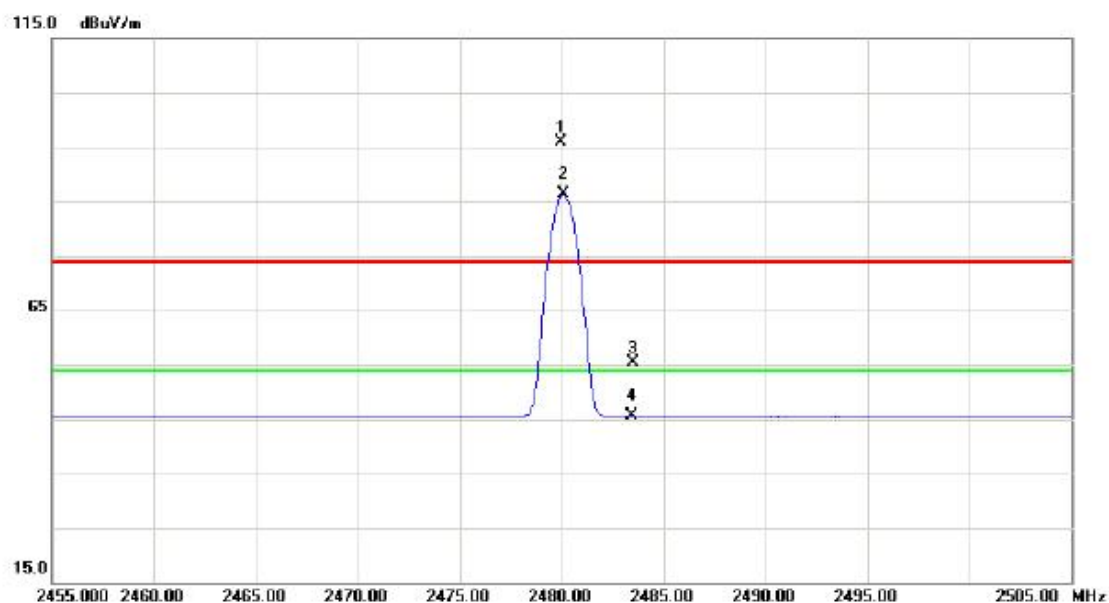
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4959.910	36.43	6.83	43.26	74.00	-30.74	peak	
2	*	4959.910	27.32	6.83	34.15	54.00	-19.85	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz_CH78_1Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2479.950	62.37	33.61	95.98	74.00	21.98	peak	NO LIMIT
2	*	2480.100	52.73	33.61	86.34	54.00	32.34	AVG	NO LIMIT
3		2483.500	21.64	33.62	55.26	74.00	-18.74	peak	
4		2483.500	11.92	33.62	45.54	54.00	-8.46	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH78_1Mbps

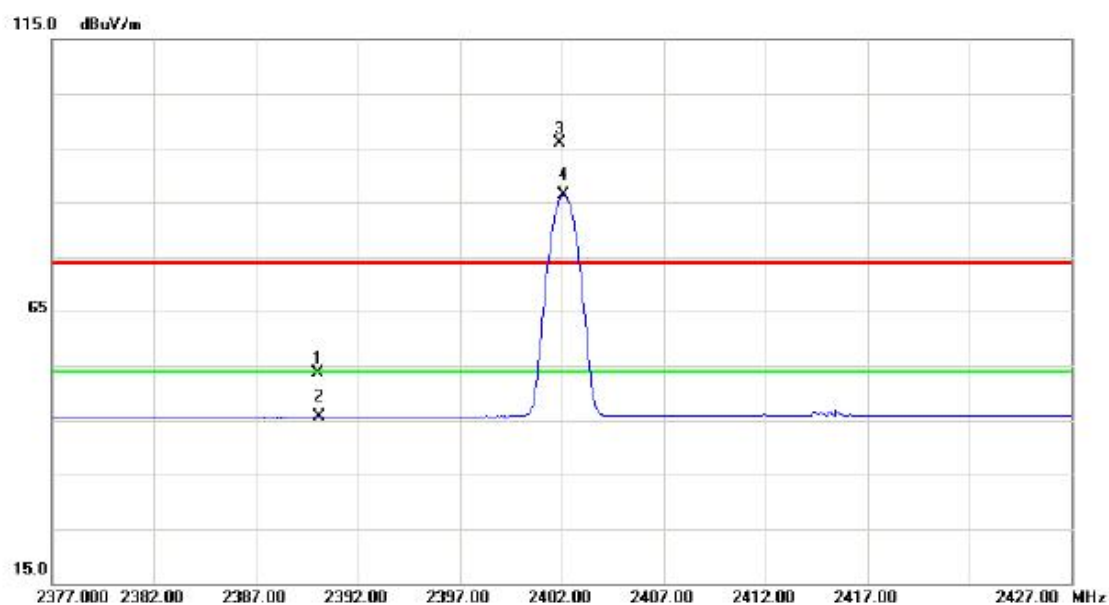
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4959.580	35.52	6.83	42.35	74.00	-31.65	peak	
2	*	4959.580	26.31	6.83	33.14	54.00	-20.86	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2402MHz_CH00_3Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	20.32	33.38	53.70	74.00	-20.30	peak	
2		2390.000	12.17	33.38	45.55	54.00	-8.45	AVG	
3	X	2401.900	62.53	33.41	95.94	74.00	21.94	peak	NO LIMIT
4	*	2402.100	53.03	33.41	86.44	54.00	32.44	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_3Mbps

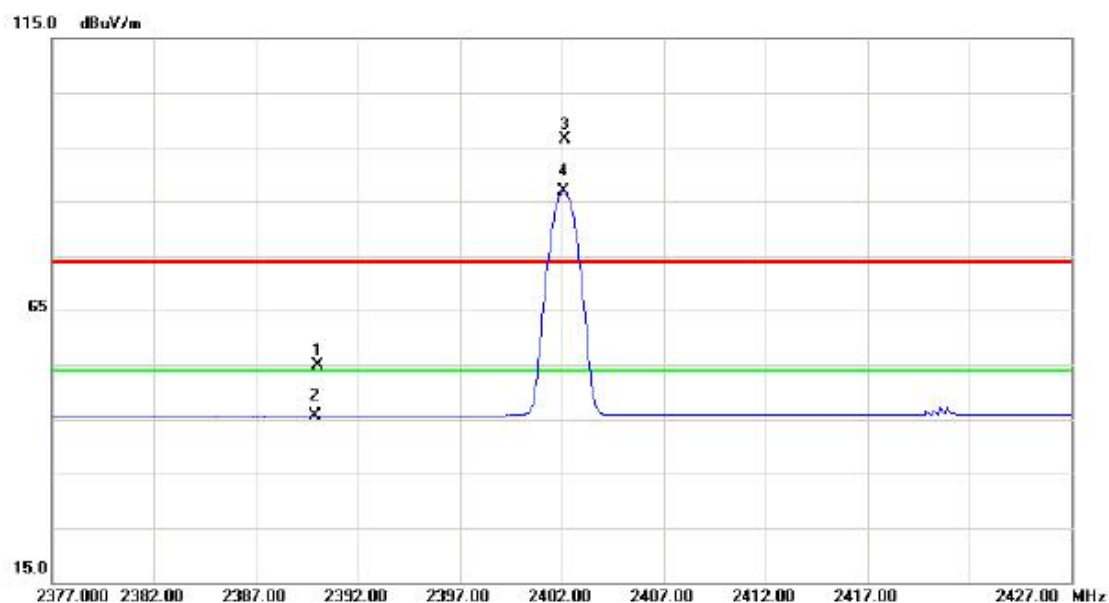
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4804.170	27.49	6.38	33.87	54.00	-20.13	AVG	
2		4804.260	36.75	6.38	43.13	74.00	-30.87	peak	

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_3Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	21.39	33.38	54.77	74.00	-19.23	peak	
2		2390.000	12.16	33.38	45.54	54.00	-8.46	AVG	
3	X	2402.150	62.93	33.41	96.34	74.00	22.34	peak	NO LIMIT
4	*	2402.150	53.45	33.41	86.86	54.00	32.86	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_3Mbps

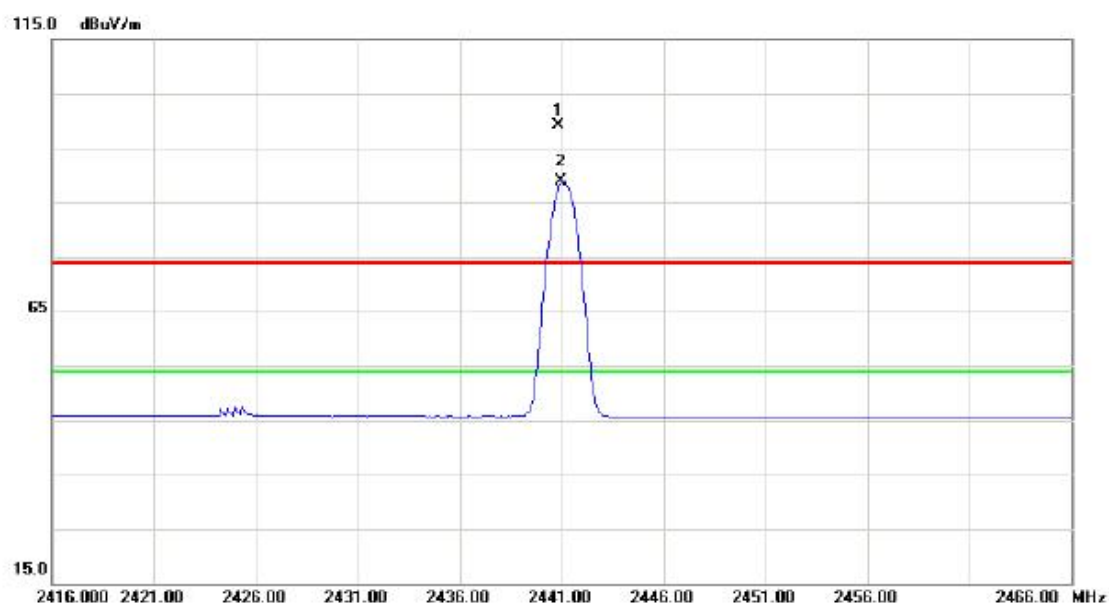
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4804.170	36.76	6.38	43.14	74.00	-30.86	peak	
2	*	4804.170	27.52	6.38	33.90	54.00	-20.10	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2441MHz_CH39_3Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.850	65.67	33.51	99.18	74.00	25.18	peak	NO LIMIT
2	*	2440.850	55.43	33.51	88.94	54.00	34.94	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2441MHz _CH39_3Mbps

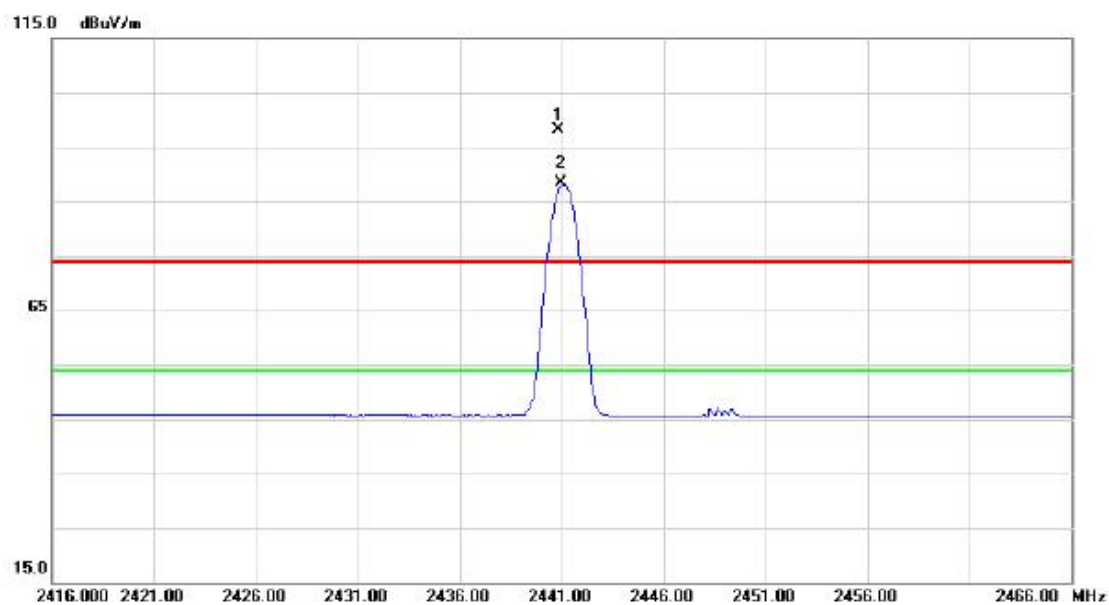
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4881.850	36.83	6.61	43.44	74.00	-30.56	peak	
2	*	4881.850	27.41	6.61	34.02	54.00	-19.98	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2441MHz _CH39_3Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2440.850	64.53	33.51	98.04	74.00	24.04	peak	NO LIMIT
2	*	2440.850	54.80	33.51	88.31	54.00	34.31	AVG	NO LIMIT

Orthogonal Axis :	X
Test Mode :	TX 2441MHz _CH39_3Mbps

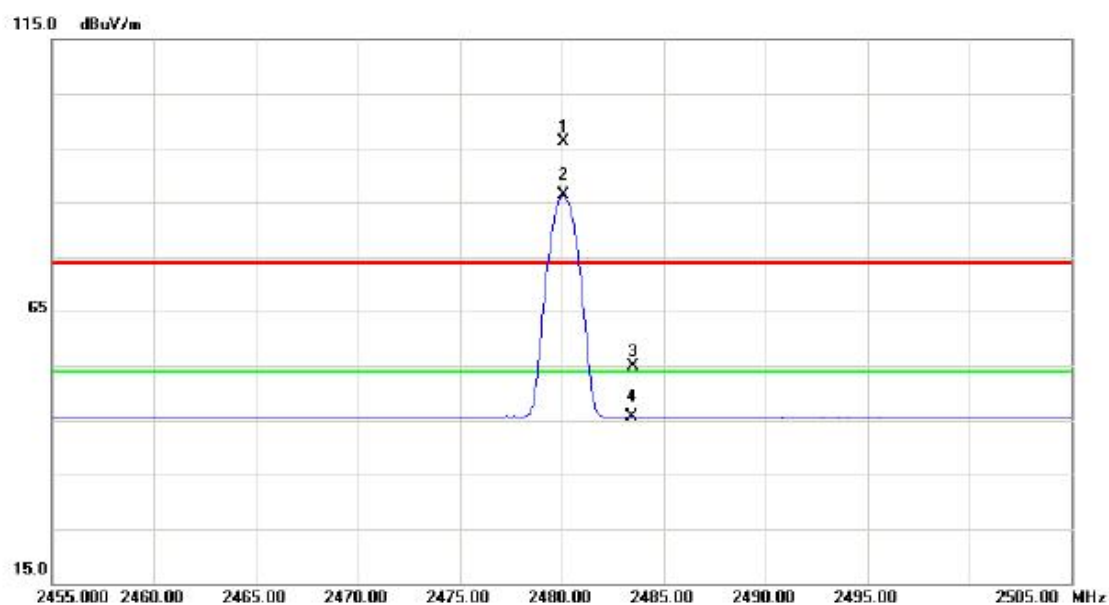
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4882.110	35.44	6.61	42.05	74.00	-31.95	peak	
2	*	4882.130	26.15	6.61	32.76	54.00	-21.24	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz_CH78_3Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.100	62.41	33.61	96.02	74.00	22.02	peak	NO LIMIT
2	*	2480.100	52.68	33.61	86.29	54.00	32.29	AVG	NO LIMIT
3		2483.500	21.29	33.62	54.91	74.00	-19.09	peak	
4		2483.500	11.96	33.62	45.58	54.00	-8.42	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH78_3Mbps

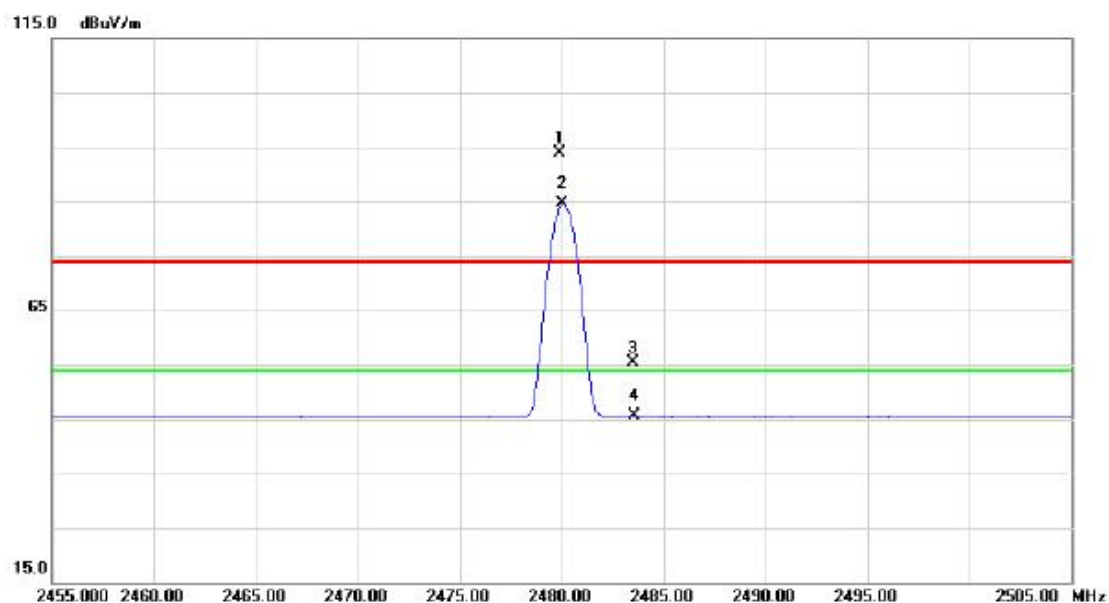
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4959.920	35.76	6.83	42.59	74.00	-31.41	peak	
2	*	4960.030	26.92	6.83	33.75	54.00	-20.25	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH78_3Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2479.870	60.28	33.61	93.89	74.00	19.89	peak	NO LIMIT
2	*	2479.870	50.93	33.61	84.54	54.00	30.54	AVG	NO LIMIT
3		2483.500	21.87	33.62	55.49	74.00	-18.51	peak	
4		2483.500	11.90	33.62	45.52	54.00	-8.48	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH78_3Mbps

Horizontal

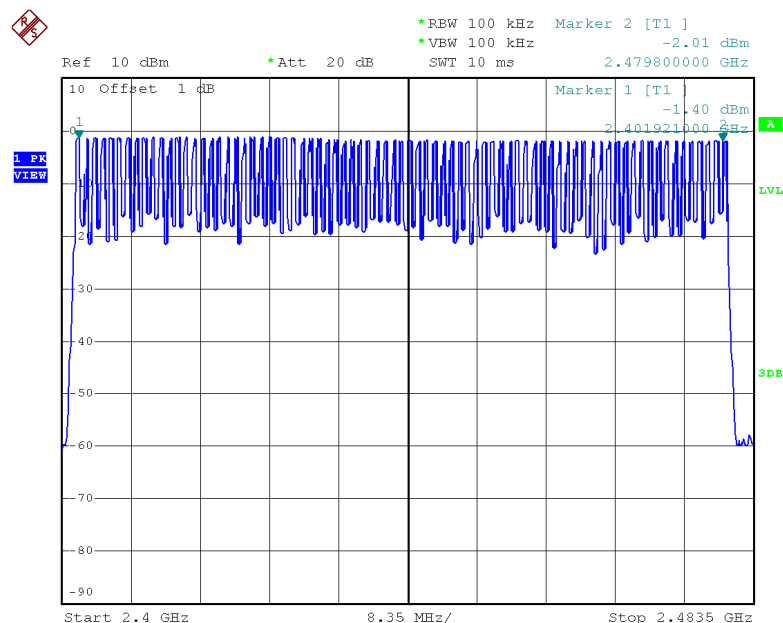


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4959.870	35.84	6.83	42.67	74.00	-31.33	peak	
2	*	4960.230	26.37	6.83	33.20	54.00	-20.80	AVG	

ATTACHMENT E - NUMBER OF HOPPING CHANNEL

Test Mode Hopping Mode_1Mbps

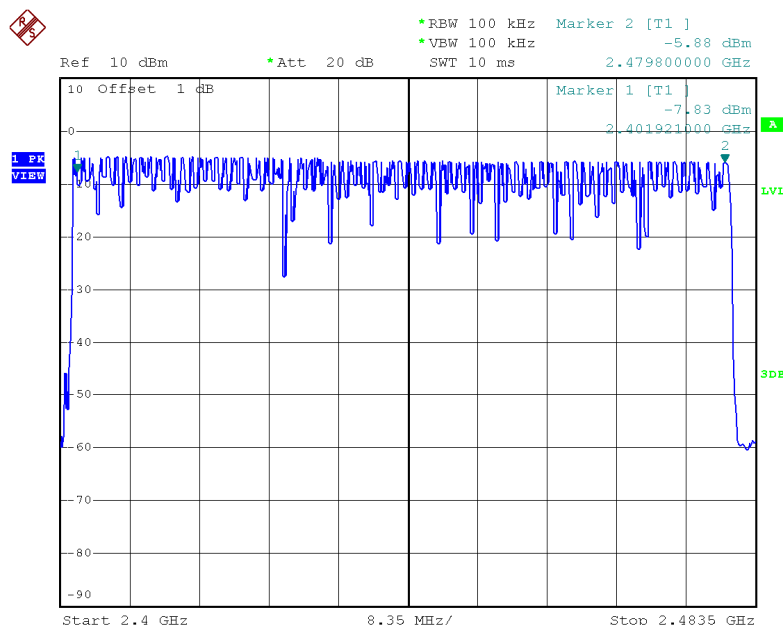
Number of Hopping Channel 79



Date: 17.NOV.2014 20:29:00

Test Mode Hopping Mode_3Mbps

Number of Hopping Channel 79



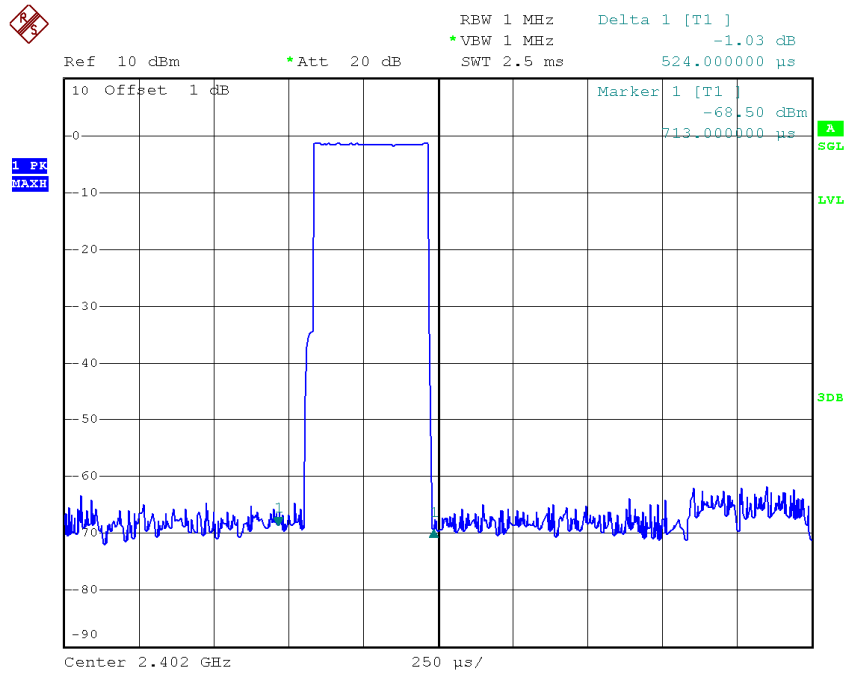
Date: 17.NOV.2014 20:46:16

ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

Test Mode :	TX Mode_1Mbps
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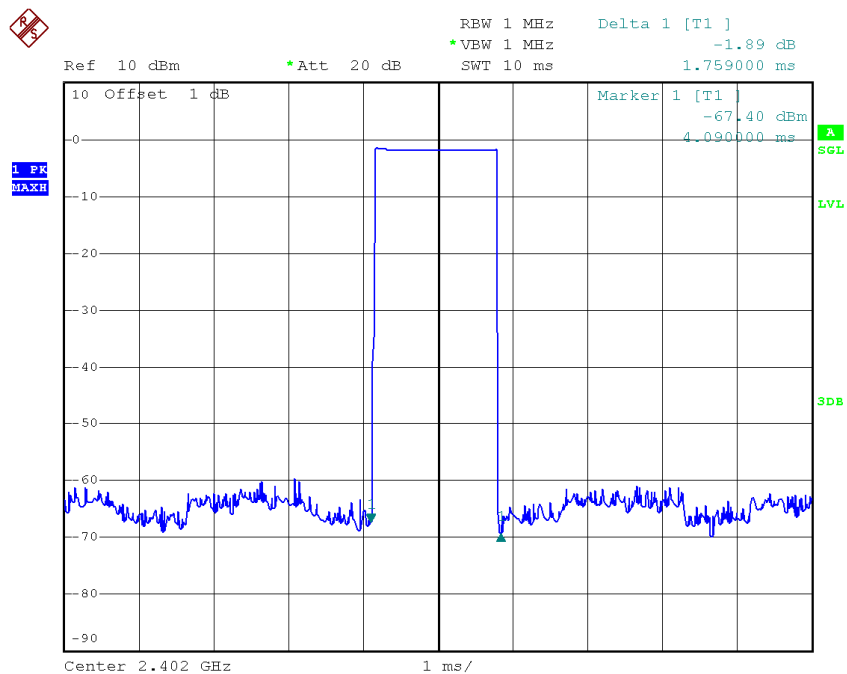
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	3.0800	0.3285	0.4000	Complies
DH3	2402	1.7590	0.2814	0.4000	Complies
DH1	2402	0.5240	0.1677	0.4000	Complies
DH5	2441	3.0400	0.3243	0.4000	Complies
DH3	2441	1.7790	0.2846	0.4000	Complies
DH1	2441	0.4390	0.1405	0.4000	Complies
DH5	2480	3.0790	0.3284	0.4000	Complies
DH3	2480	1.7790	0.2846	0.4000	Complies
DH1	2480	0.4440	0.1421	0.4000	Complies

CH00-DH1



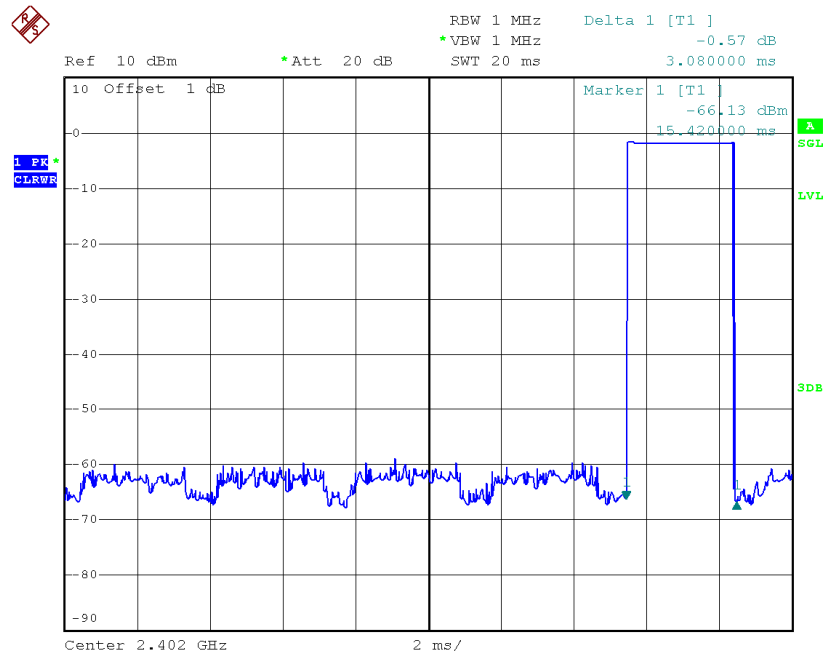
Date: 17.NOV.2014 20:23:21

CH00-DH3



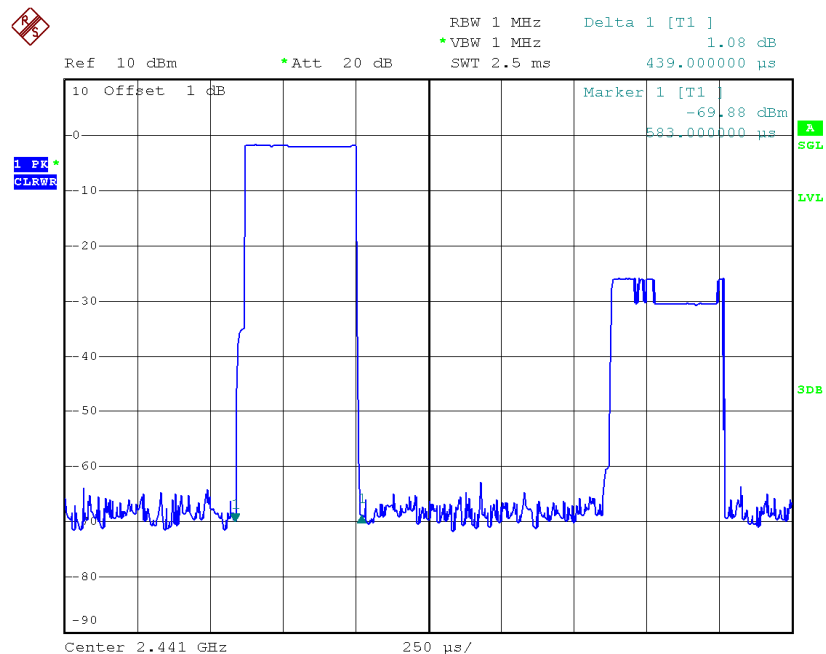
Date: 17.NOV.2014 20:31:41

CH00-DH5



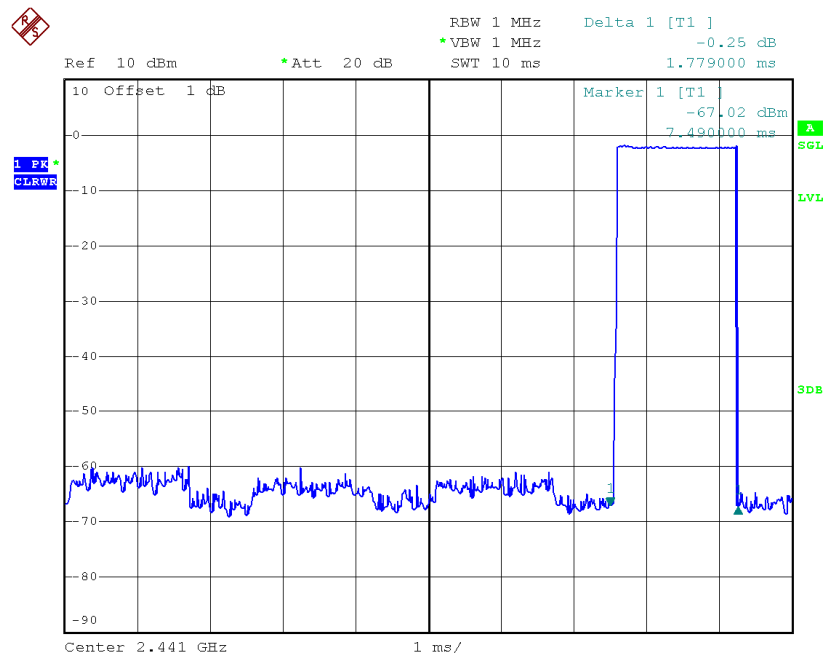
Date: 17.NOV.2014 20:32:39

CH39-DH1



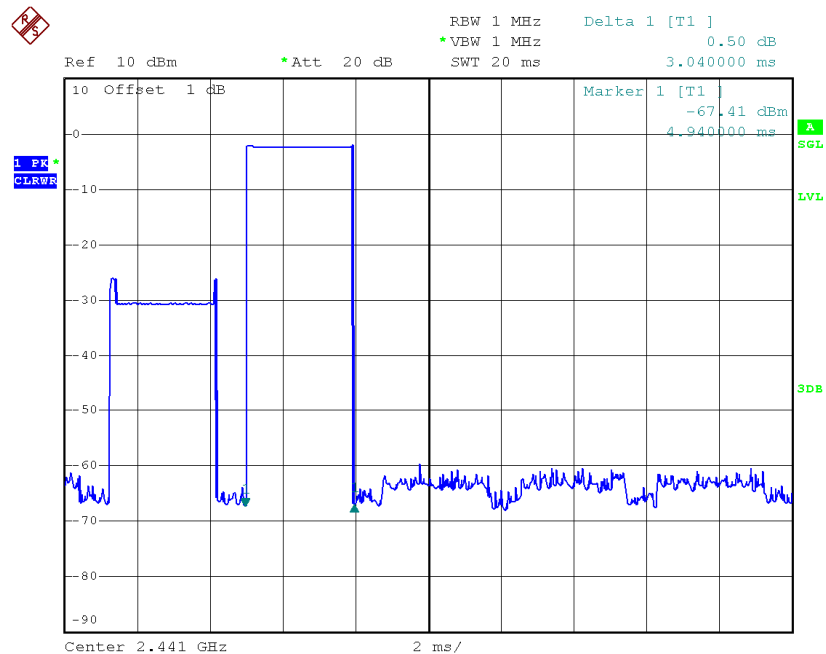
Date: 17.NOV.2014 20:23:33

CH39-DH3



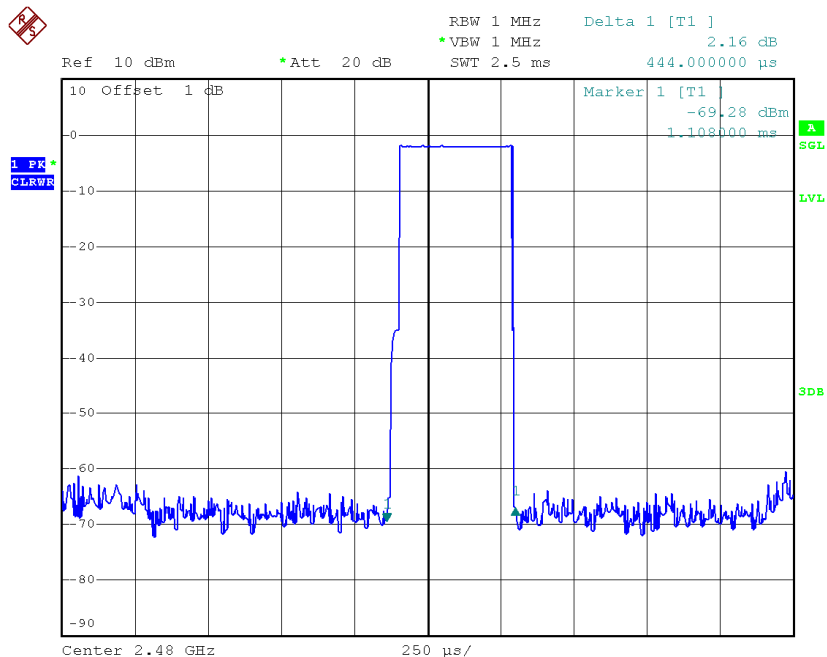
Date: 17.NOV.2014 20:31:53

CH39-DH5



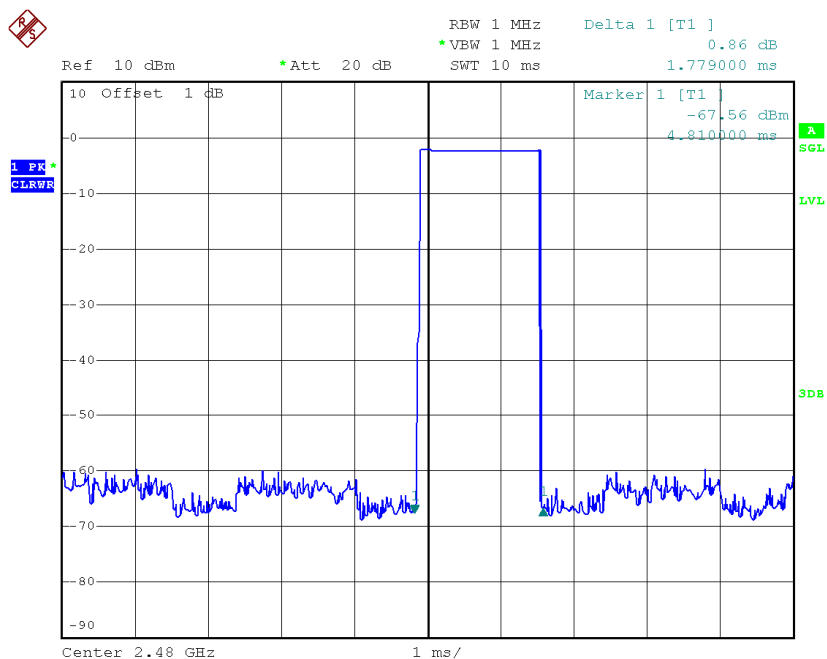
Date: 17.NOV.2014 20:32:51

CH78-DH1



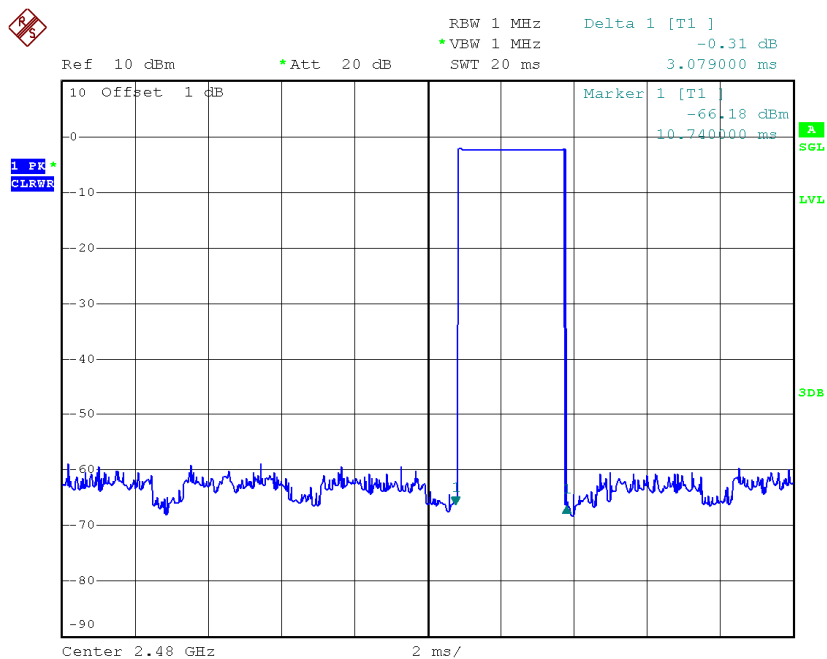
Date: 17.NOV.2014 20:23:40

CH78-DH3



Date: 17.NOV.2014 20:32:03

CH78-DH5

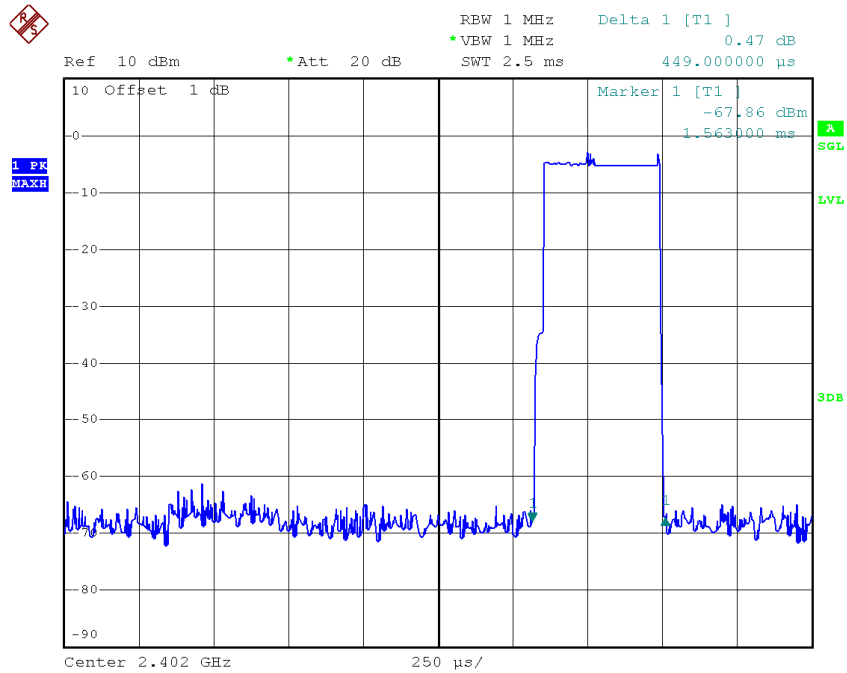


Date: 17.NOV.2014 20:33:03

Test Mode :	TX Mode_3Mbps
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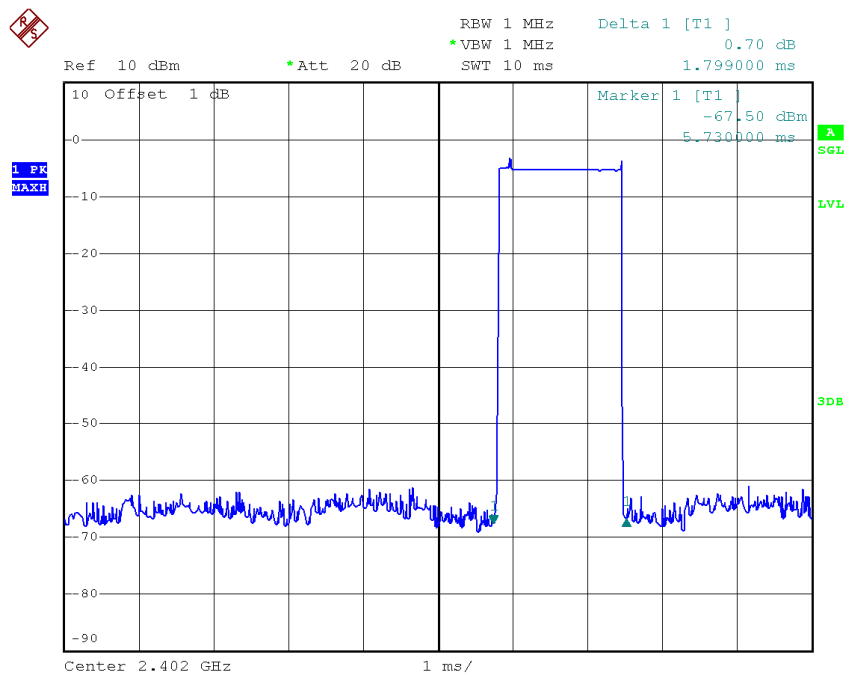
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	3.1190	0.3327	0.4000	Complies
DH3	2402	1.7990	0.2878	0.4000	Complies
DH1	2402	0.4490	0.1437	0.4000	Complies
DH5	2441	3.1190	0.3327	0.4000	Complies
DH3	2441	1.7390	0.2782	0.4000	Complies
DH1	2441	0.4390	0.1405	0.4000	Complies
DH5	2480	3.0790	0.3284	0.4000	Complies
DH3	2480	1.7390	0.2782	0.4000	Complies
DH1	2480	0.4490	0.1437	0.4000	Complies

CH00-DH1



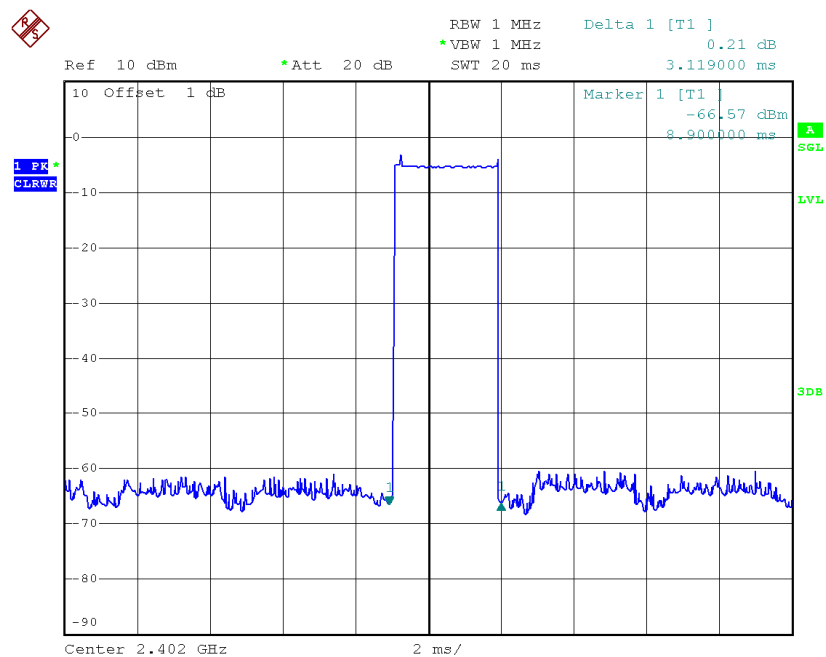
Date: 17.NOV.2014 20:40:05

CH00-DH3



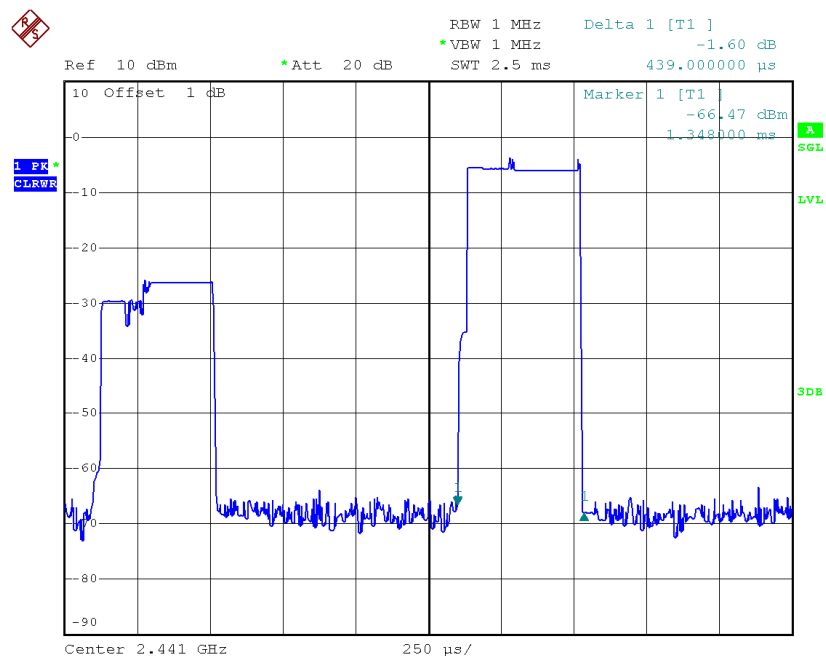
Date: 17.NOV.2014 20:48:49

CH00-DH5



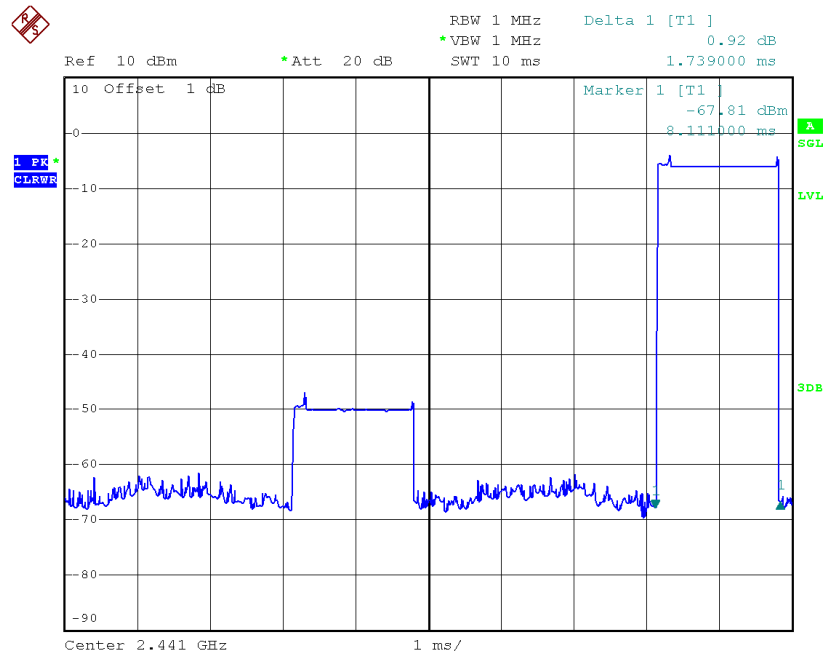
Date: 17.NOV.2014 20:50:38

CH39-DH1



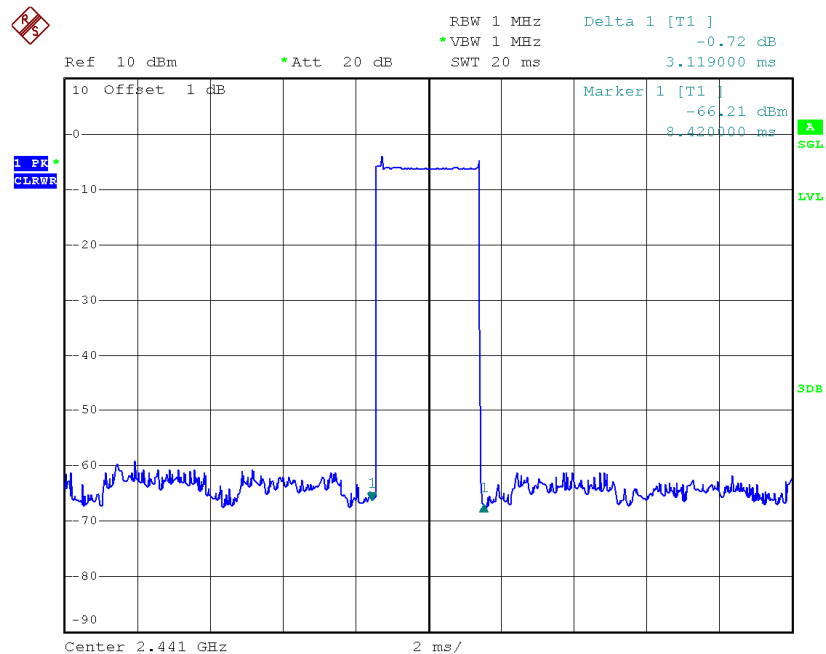
Date: 17.NOV.2014 20:40:29

CH39-DH3



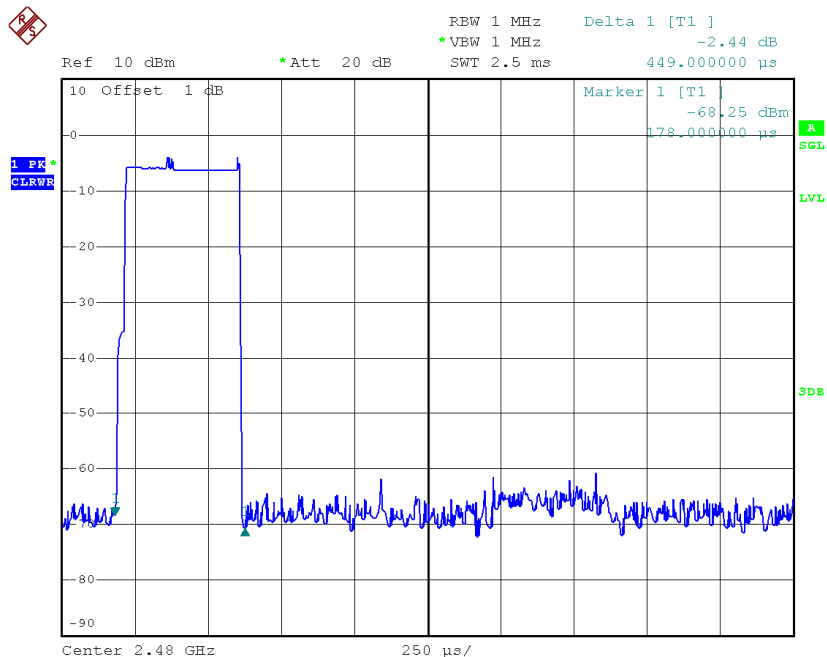
Date: 17.NOV.2014 20:49:01

CH39-DH5



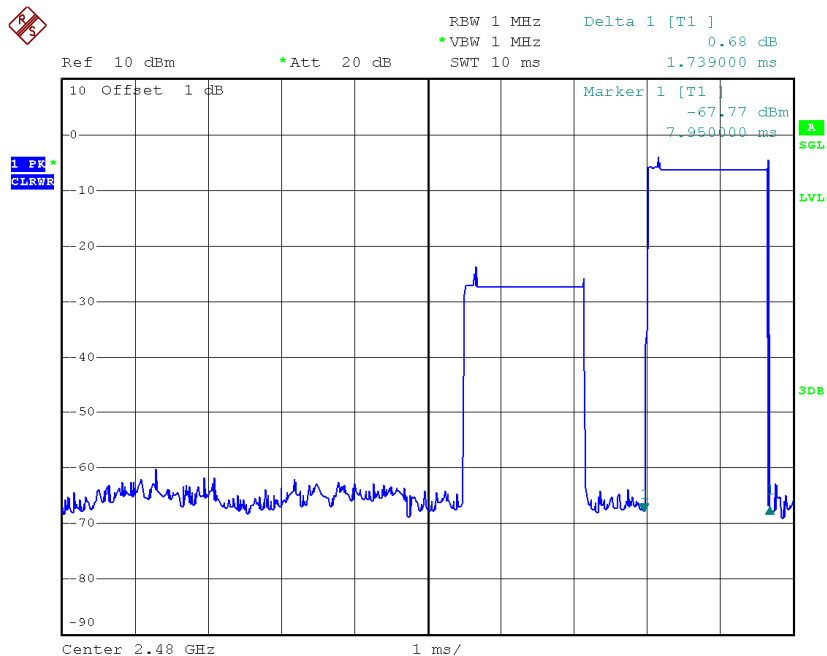
Date: 17.NOV.2014 20:50:55

CH78-DH1



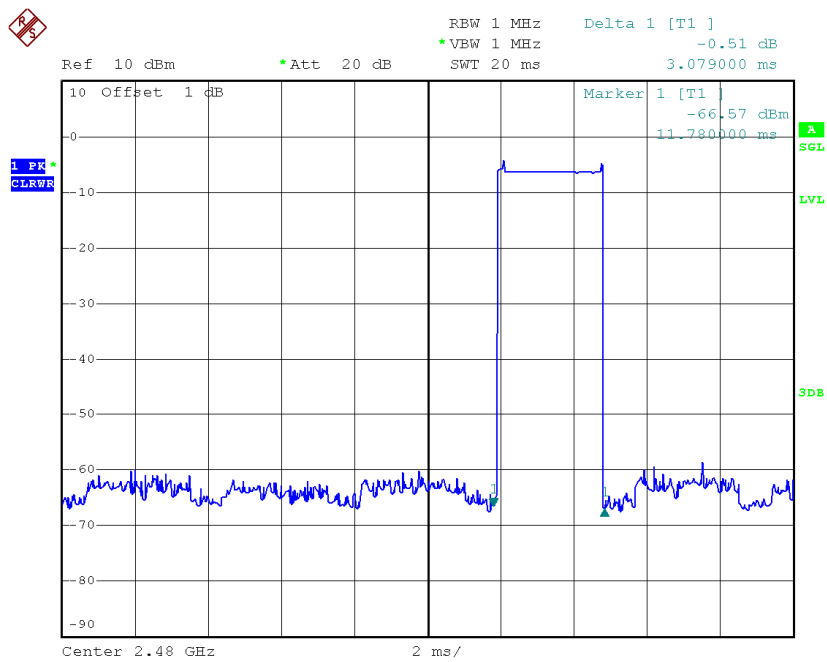
Date: 17.NOV.2014 20:40:42

CH78-DH3



Date: 17.NOV.2014 20:49:15

CH78-DH5

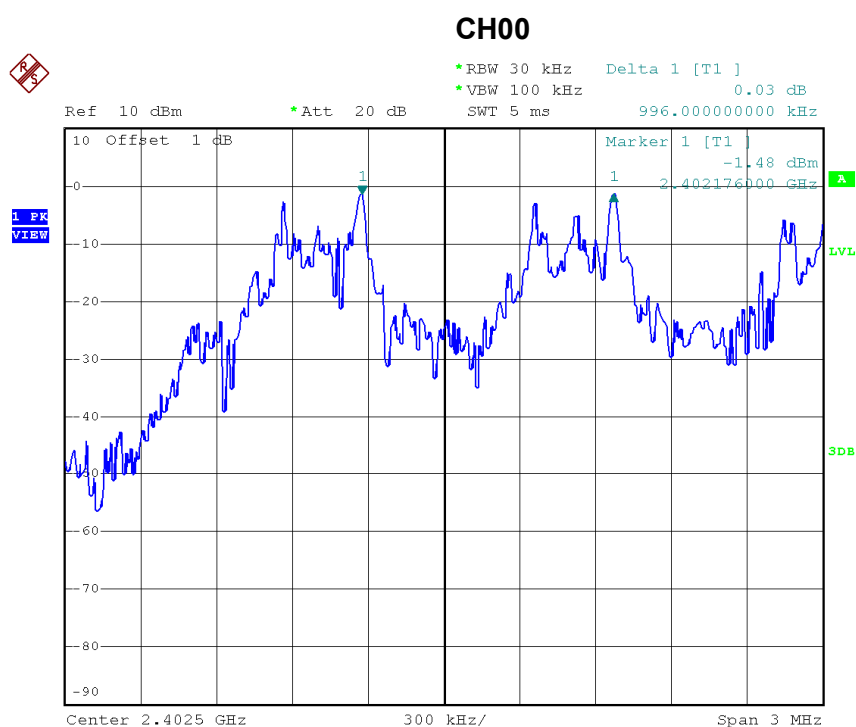


Date: 17.NOV.2014 20:51:11

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	0.996	0.405	Complies
2441	1.001	0.358	Complies
2480	1.005	0.401	Complies



Date: 17.NOV.2014 20:24:45

CH39



Date: 17.NOV.2014 20:25:53

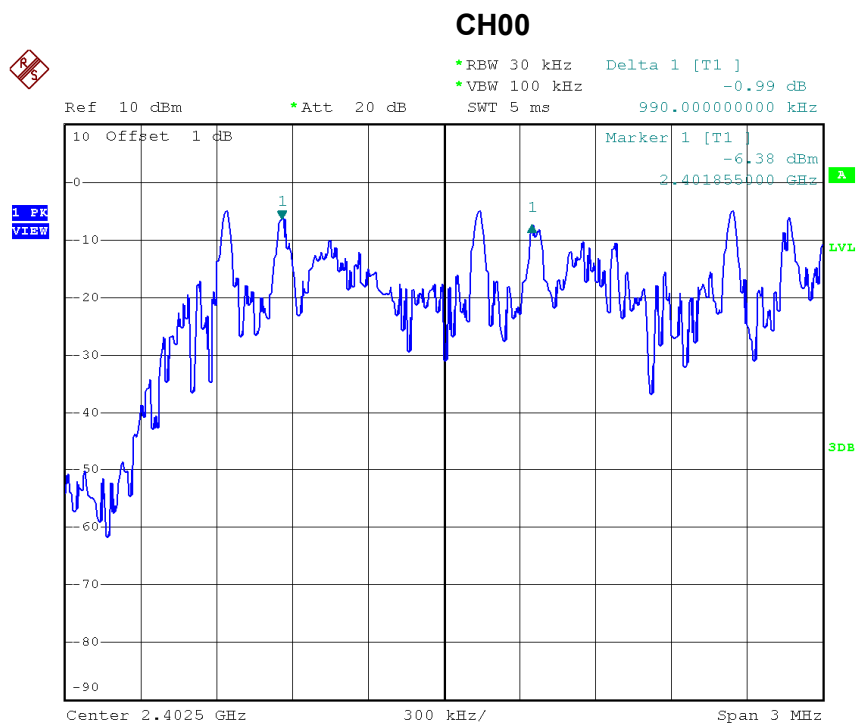
CH78



Date: 17.NOV.2014 20:27:01

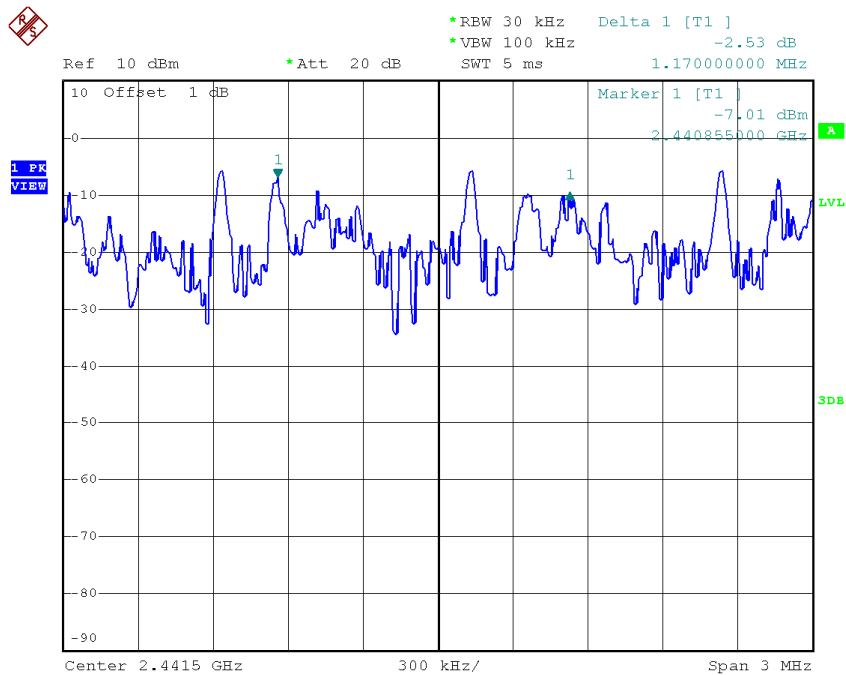
Test Mode :	Hopping on _3Mbps
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Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.990	0.820	Complies
2441	1.170	0.767	Complies
2480	0.990	0.812	Complies



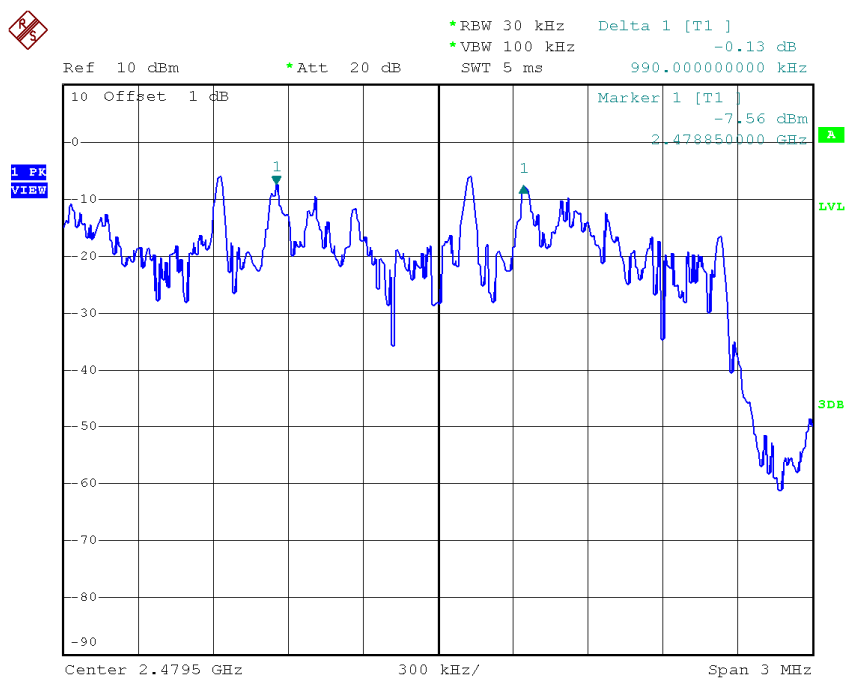
Date: 17.NOV.2014 20:41:55

CH39



Date: 17.NOV.2014 20:43:06

CH78

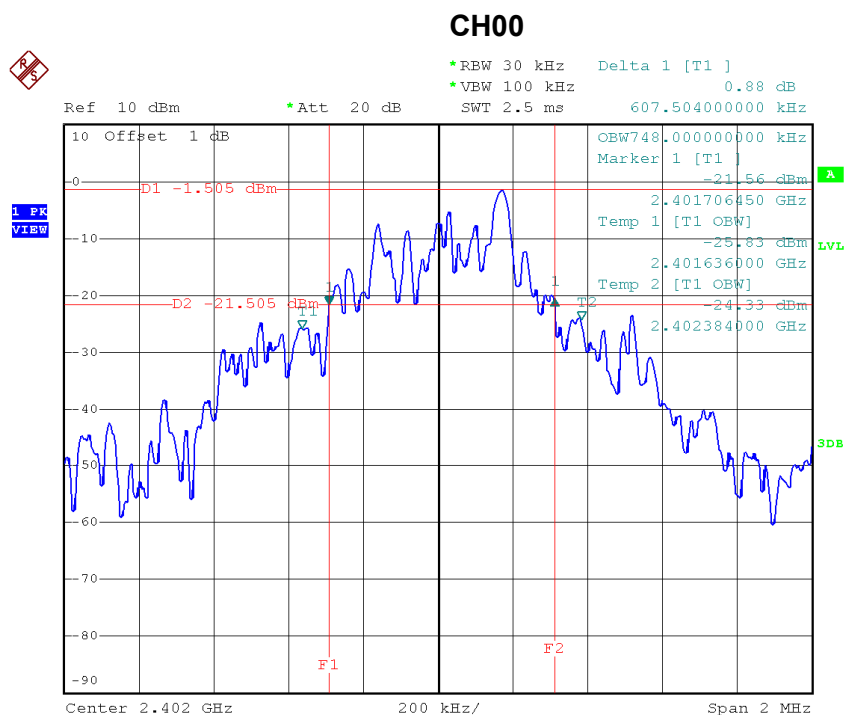


Date: 17.NOV.2014 20:44:17

ATTACHMENT H - BANDWIDTH

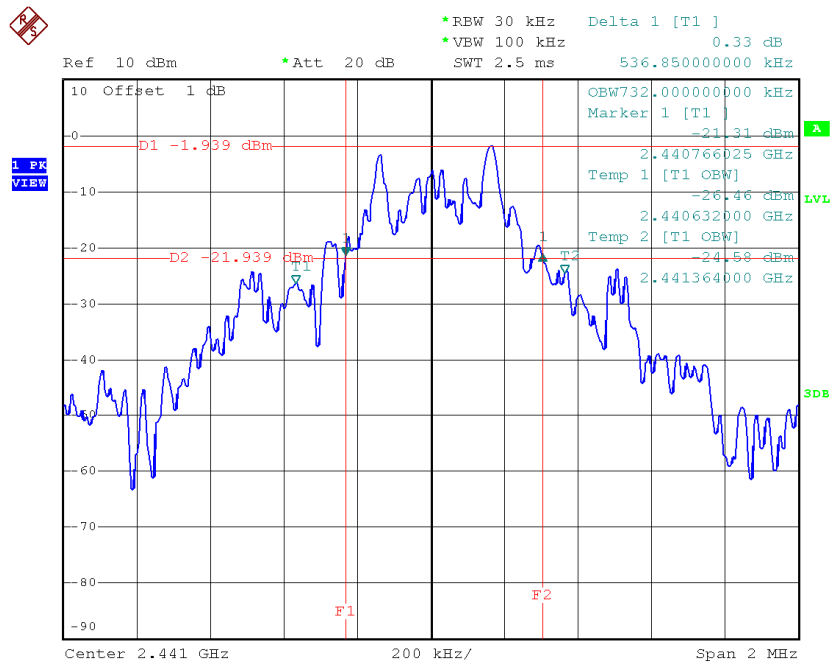
Test Mode : TX Mode _1Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.608	0.748	Complies
2441	0.537	0.732	Complies
2480	0.602	0.808	Complies



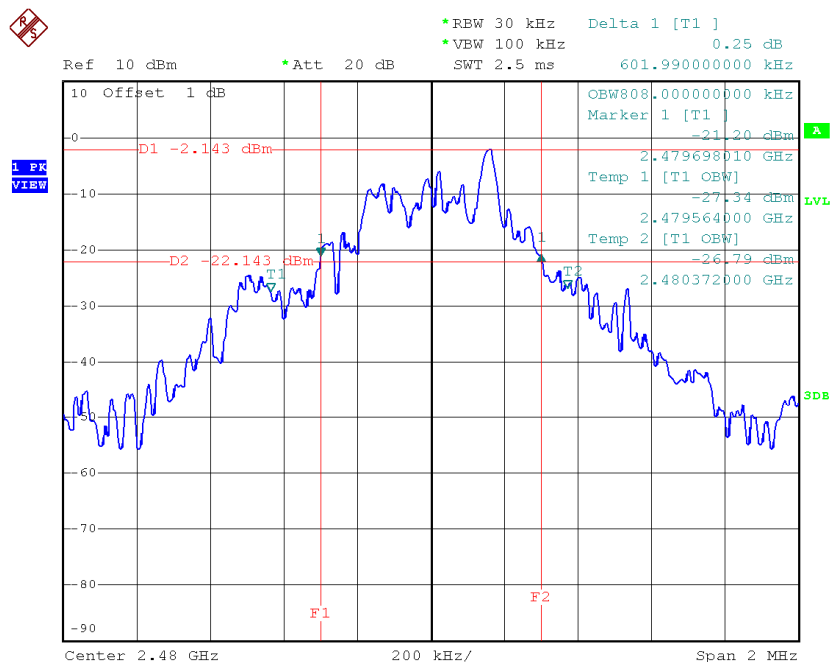
Date: 17.NOV.2014 20:20:50

CH39



Date: 17.NOV.2014 20:19:59

CH78



Date: 17.NOV.2014 20:19:04

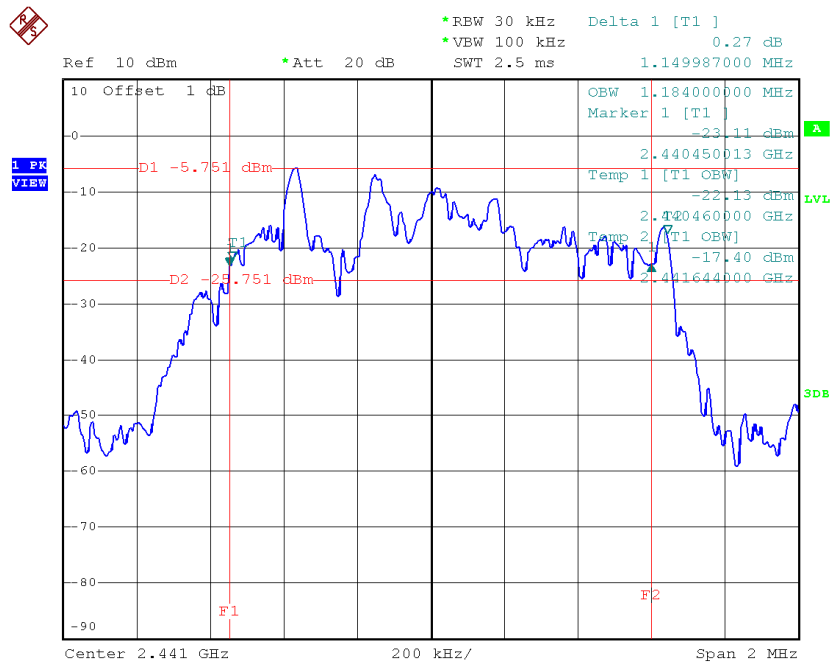
Test Mode :	TX Mode _3Mbps
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Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.231	1.200	Complies
2441	1.150	1.184	Complies
2480	1.218	1.184	Complies



Date: 17.NOV.2014 20:36:04

CH39



Date: 17.NOV.2014 20:37:14

CH78

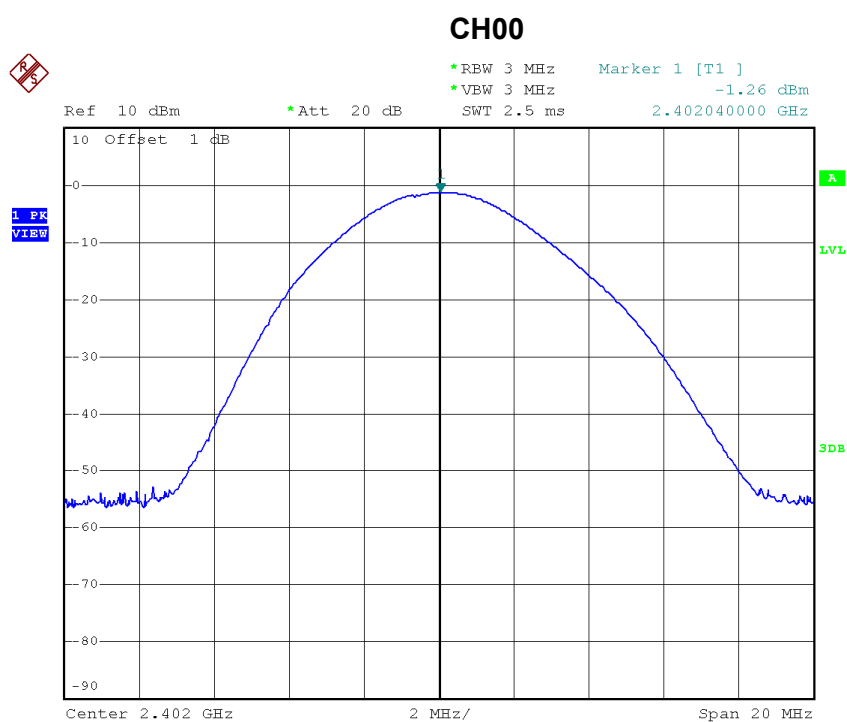


Date: 17.NOV.2014 20:37:57

ATTACHMENT I - PEAK OUTPUT POWER

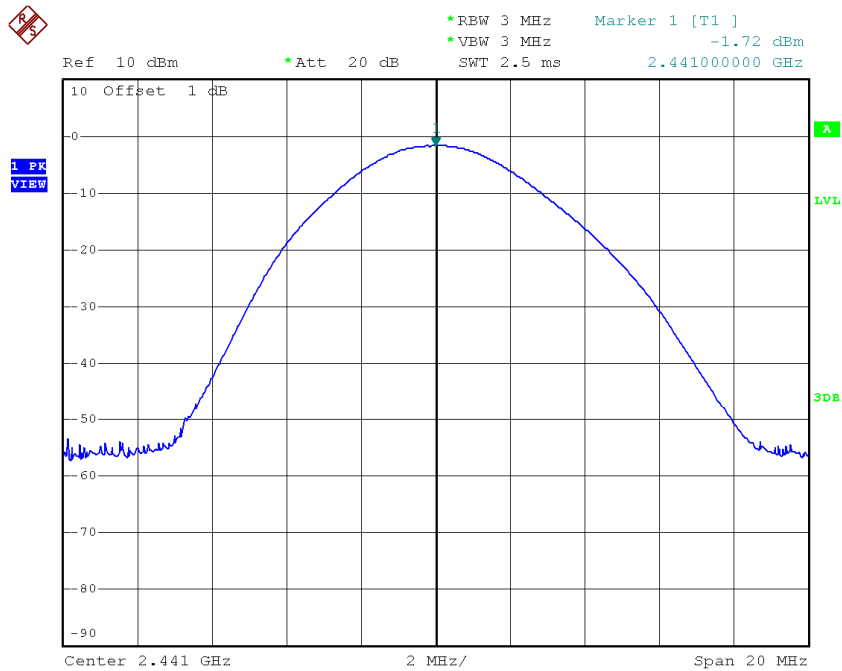
Test Mode :	TX Mode _1Mbps
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	-1.26	0.0007	30.00	1.0000	Complies
2441	-1.72	0.0007	30.00	1.0000	Complies
2480	-1.94	0.0006	30.00	1.0000	Complies



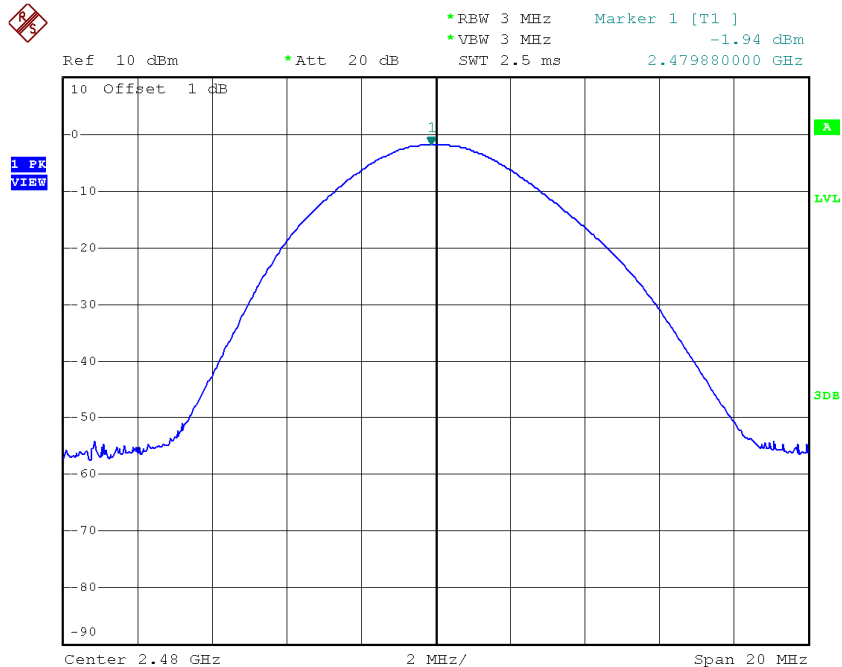
Date: 17.NOV.2014 20:21:03

CH39



Date: 17.NOV.2014 20:20:05

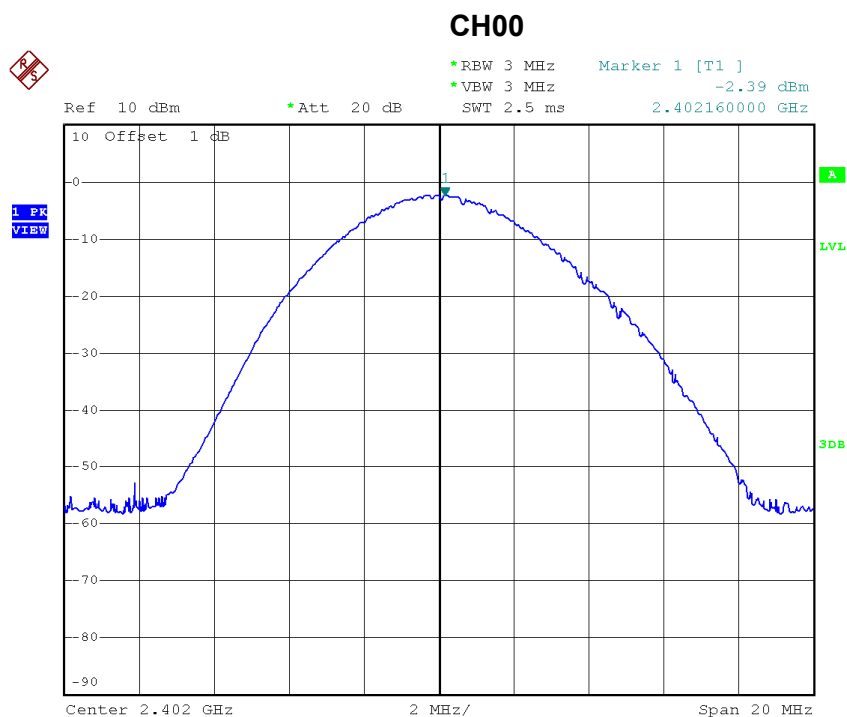
CH78



Date: 17.NOV.2014 20:19:18

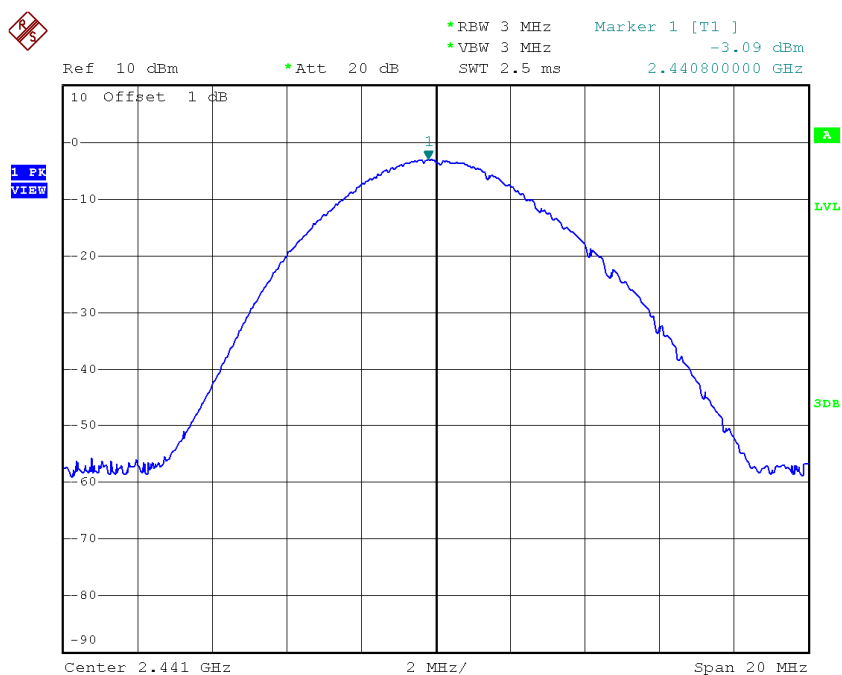
Test Mode : TX Mode _3Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	-2.39	0.0006	30.00	1.0000	Complies
2441	-3.09	0.0005	30.00	1.0000	Complies
2480	-3.27	0.0005	30.00	1.0000	Complies



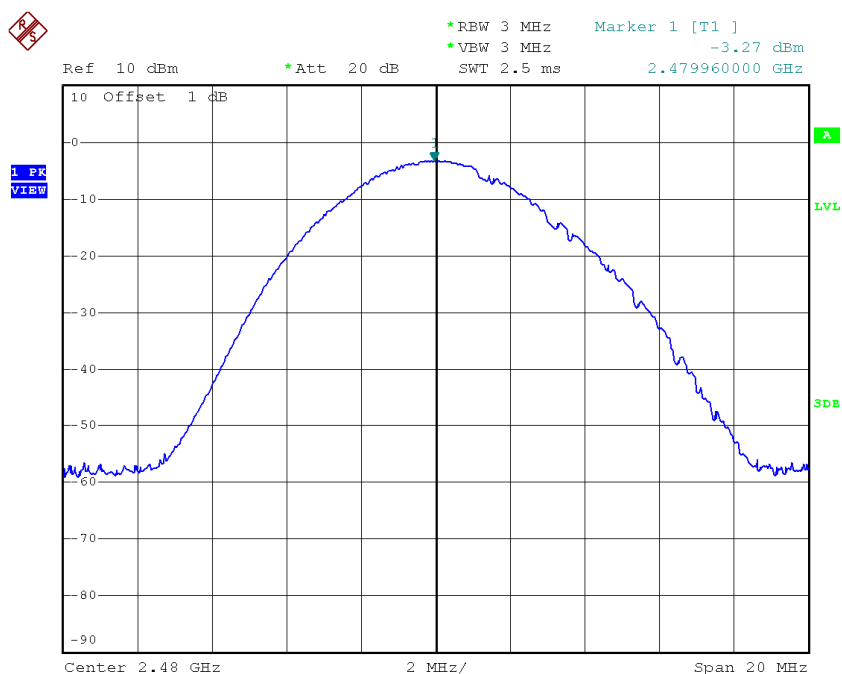
Date: 17.NOV.2014 20:36:18

CH39



Date: 17.NOV.2014 20:37:20

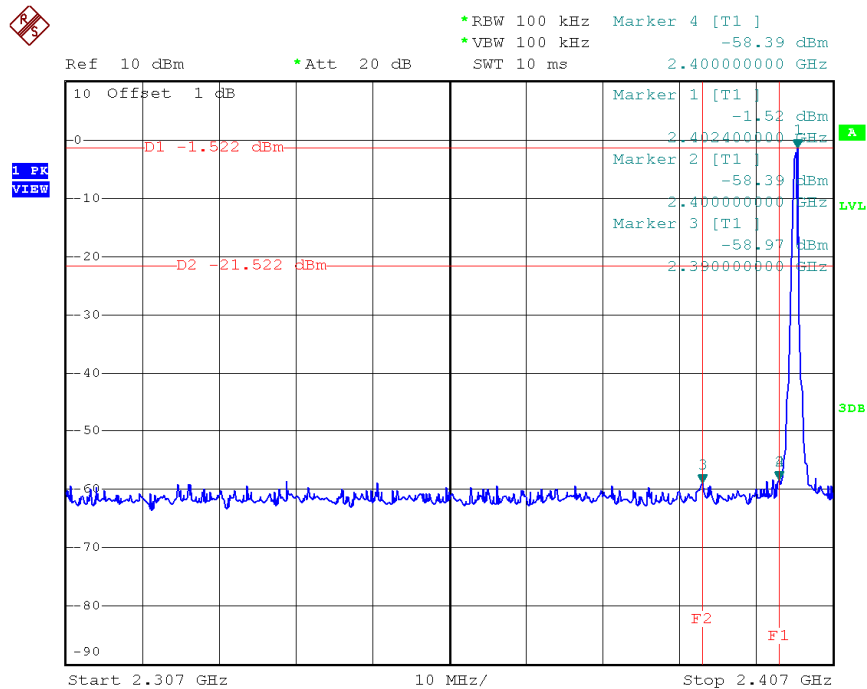
CH78



Date: 17.NOV.2014 20:38:11

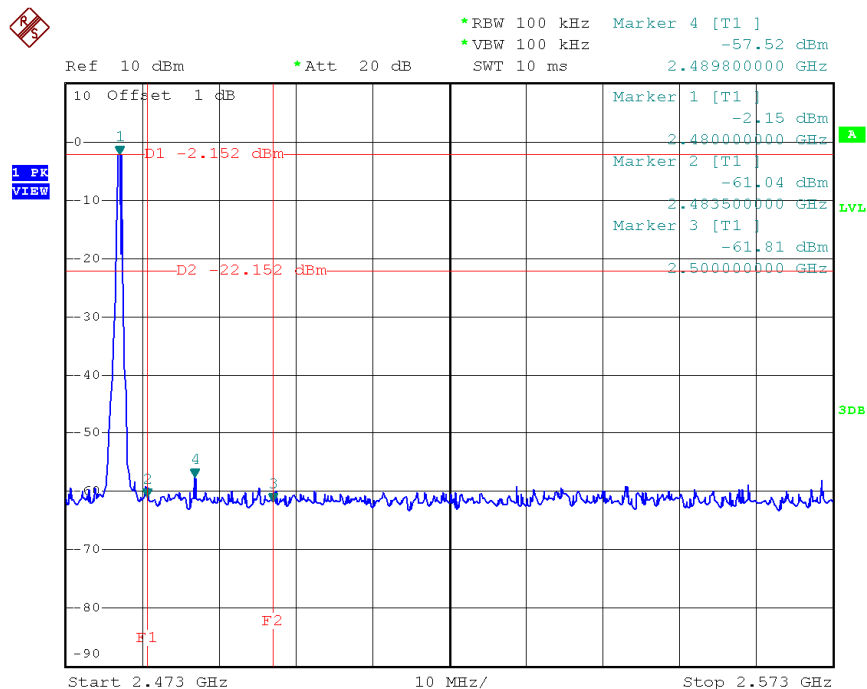
ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION

CH00 (Lower)_1Mbps



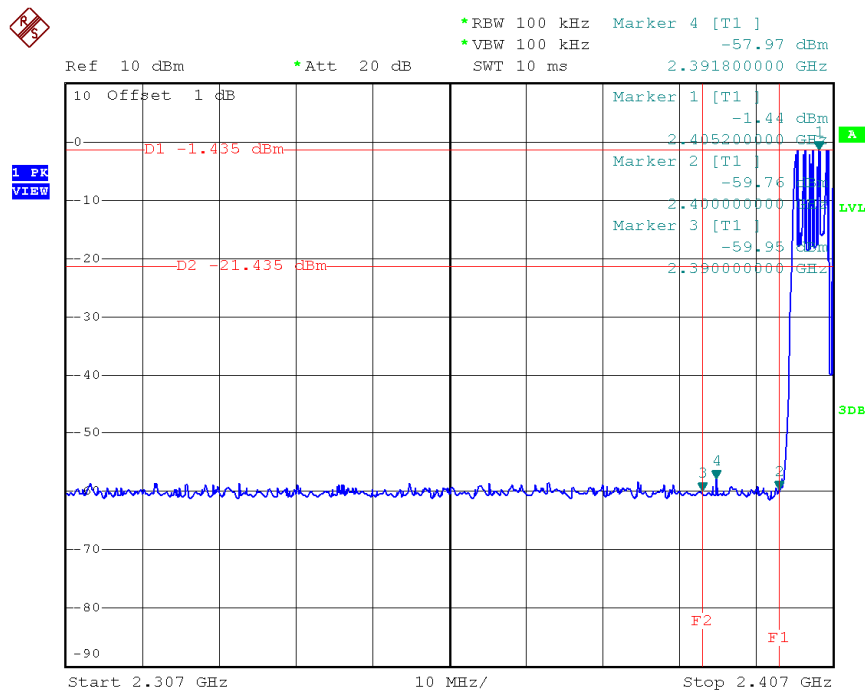
Date: 17.NOV.2014 20:20:58

CH78 (Upper)_1Mbps



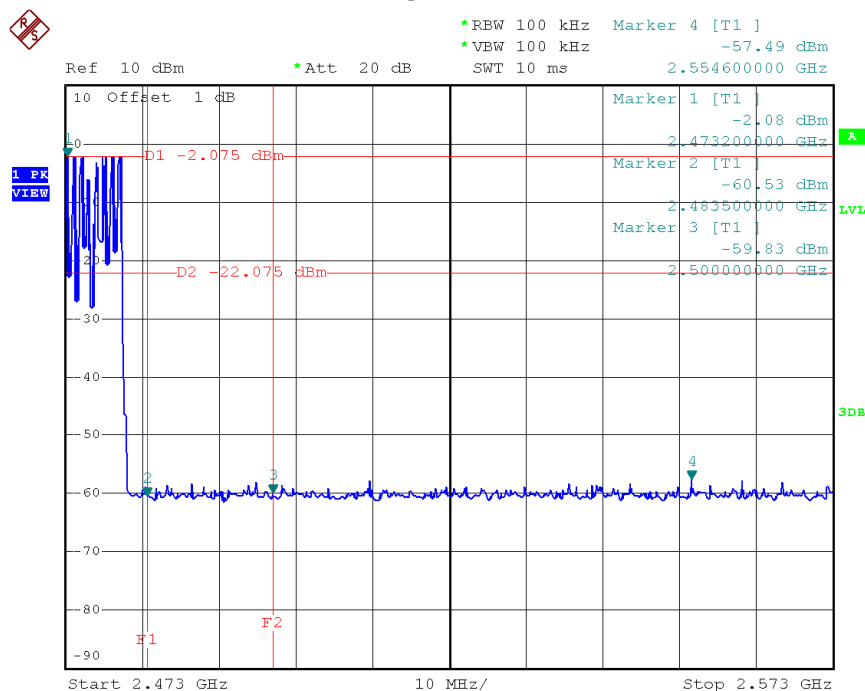
Date: 17.NOV.2014 20:19:12

CH00 Hopping on mode (Lower)_1Mbps



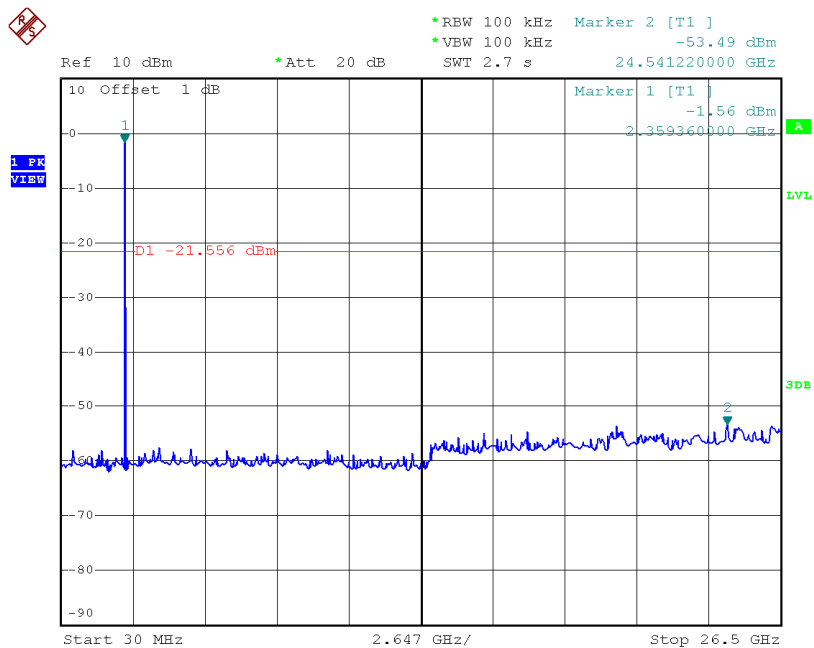
Date: 17.NOV.2014 20:29:35

CH78 Hopping on mode (Upper)_1Mbps



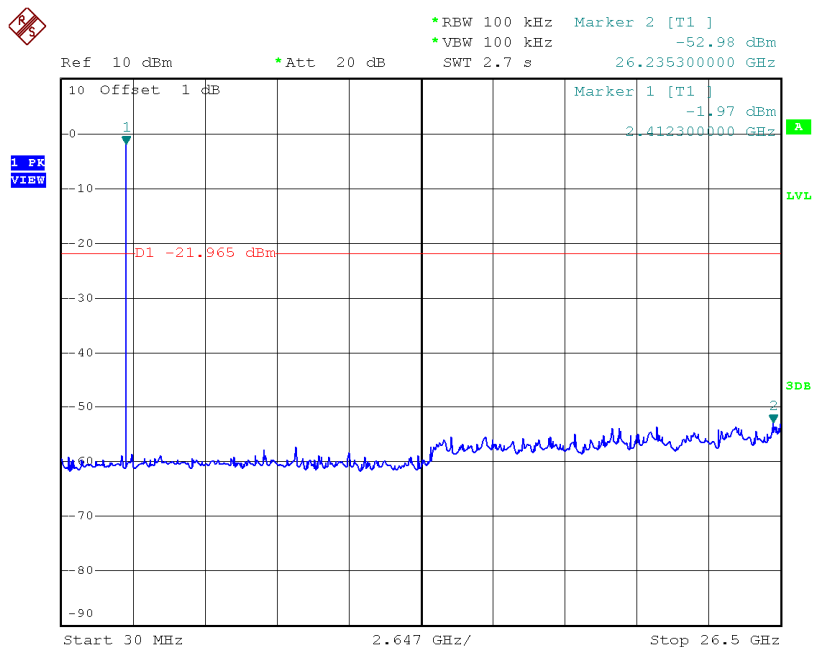
Date: 17.NOV.2014 20:30:09

CH00 (10 Harmonic of the frequency) _1Mbps



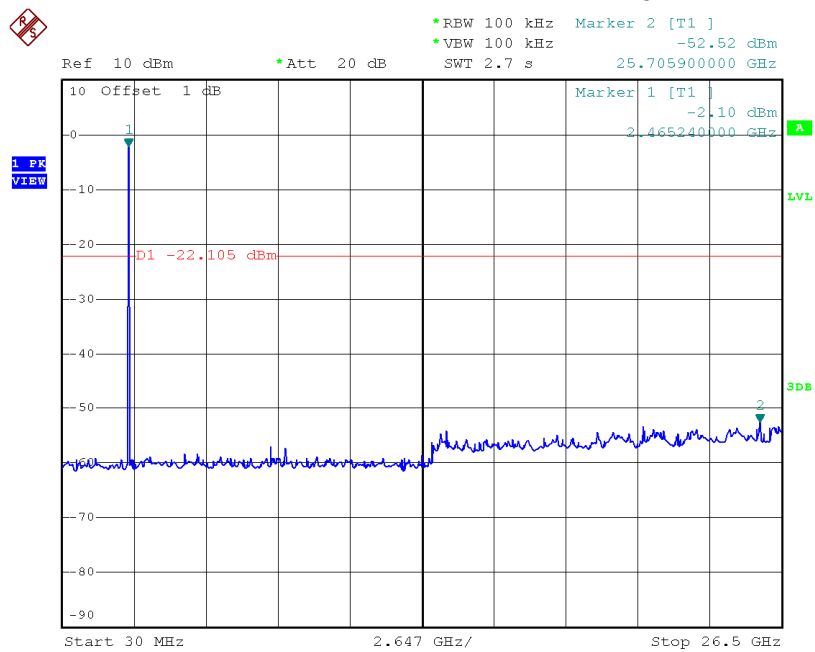
Date: 17.NOV.2014 20:20:42

CH39 (10 Harmonic of the frequency) _1Mbps



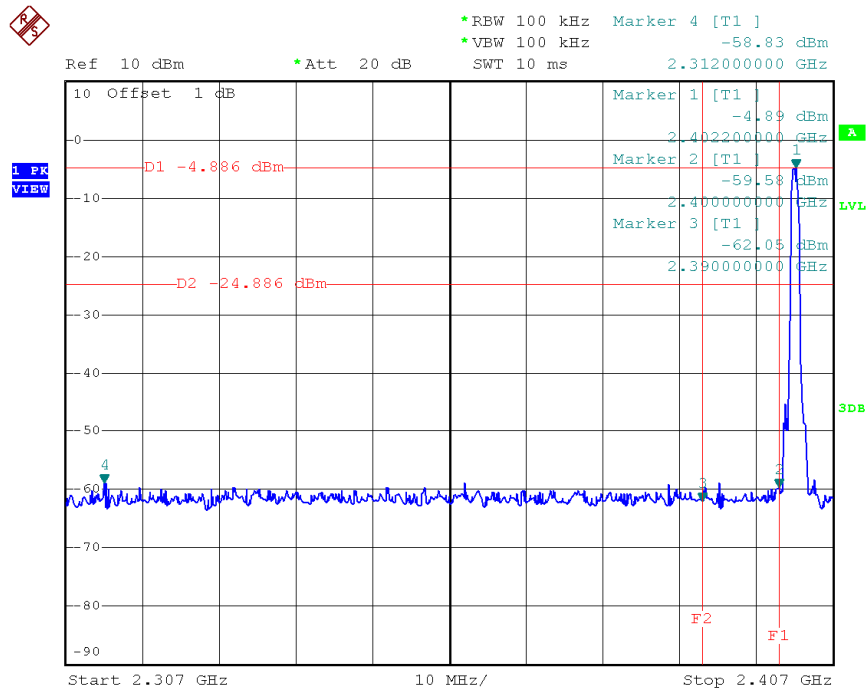
Date: 17.NOV.2014 20:19:52

CH78 (10 Harmonic of the frequency) _1Mbps



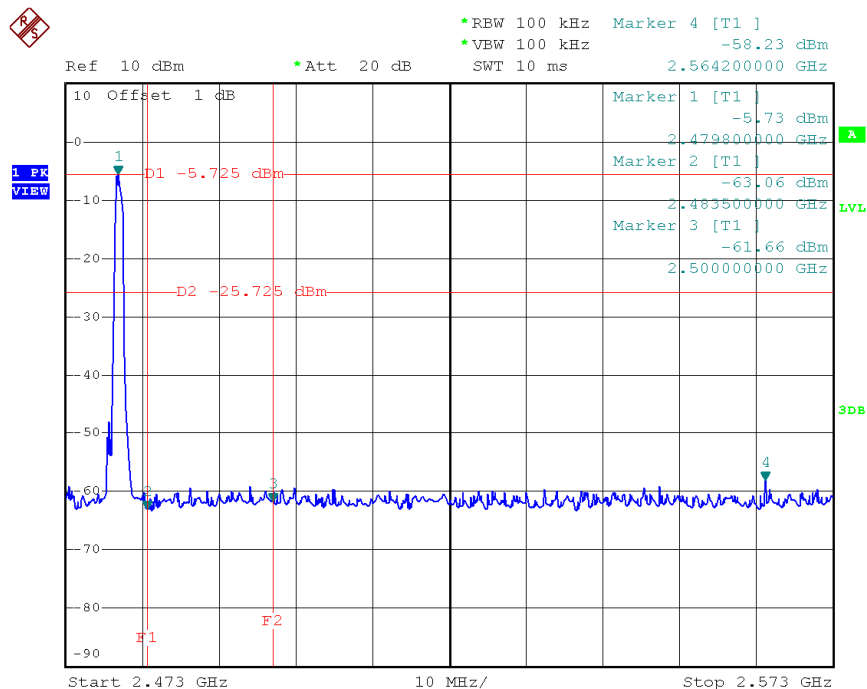
Date: 17.NOV.2014 20:18:57

CH00 (Lower) _3Mbps



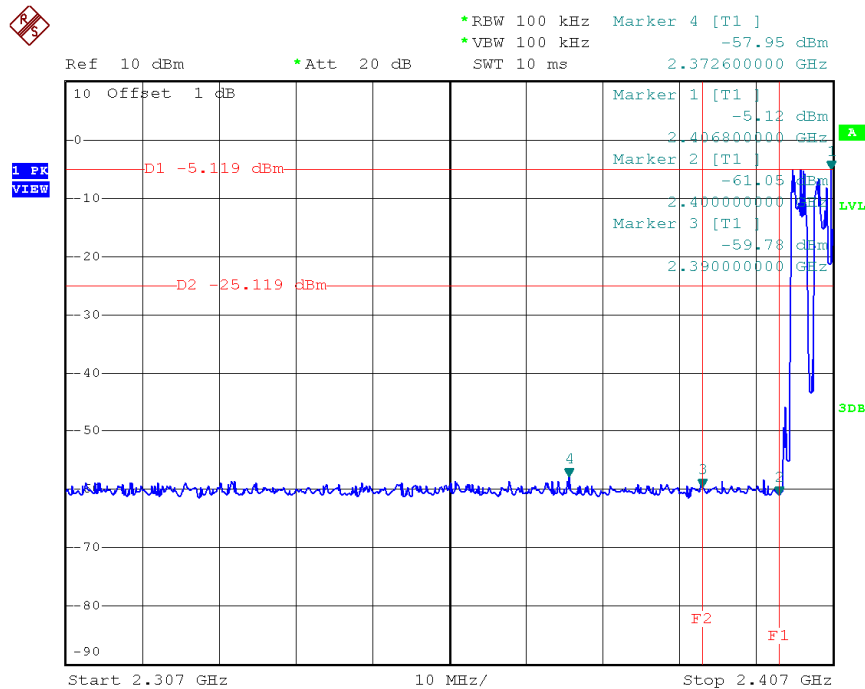
Date: 17.NOV.2014 20:36:12

CH78 (Upper) _3Mbps



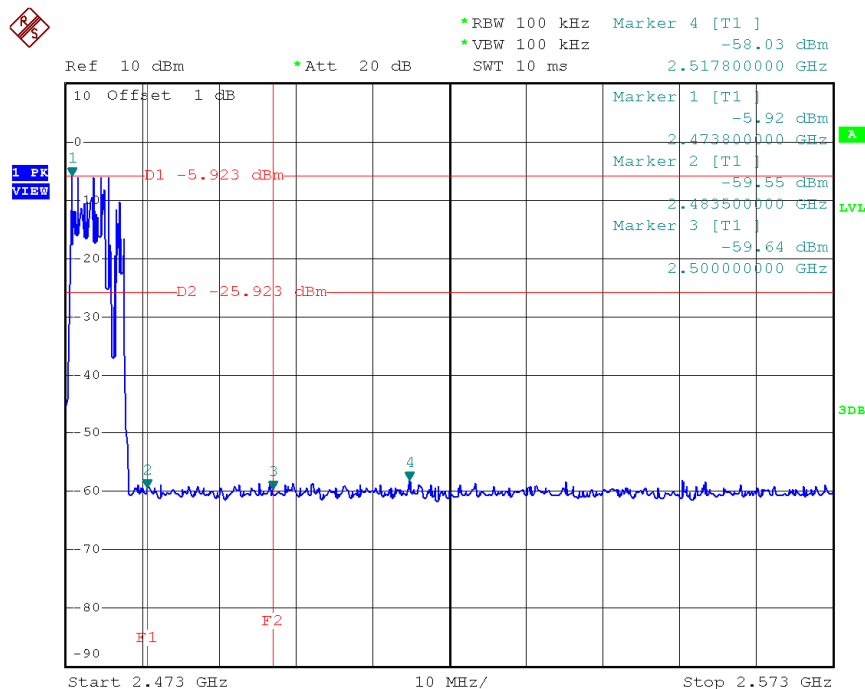
Date: 17.NOV.2014 20:38:05

CH00 Hopping on mode (Lower)_3Mbps



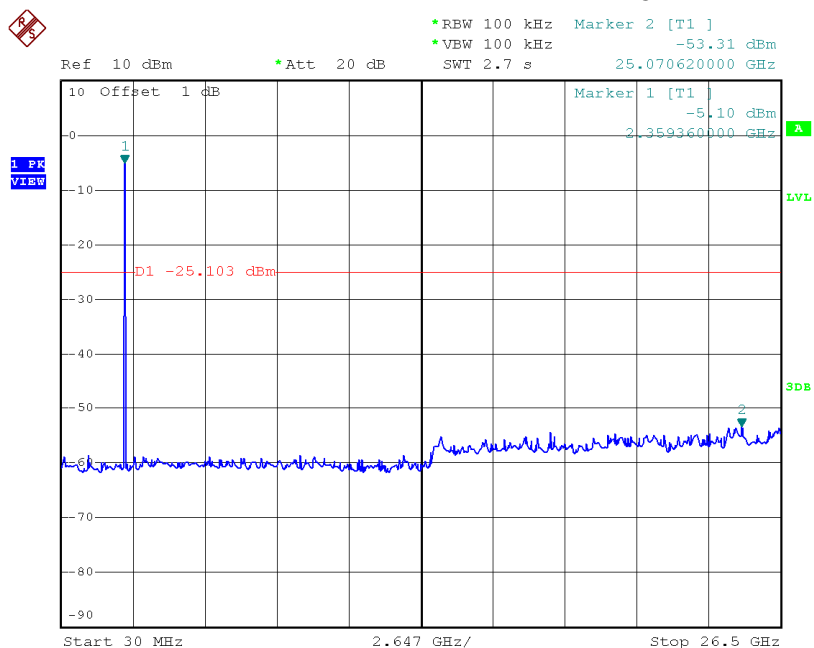
Date: 17.NOV.2014 20:46:51

CH78 Hopping on mode (Upper)_3Mbps



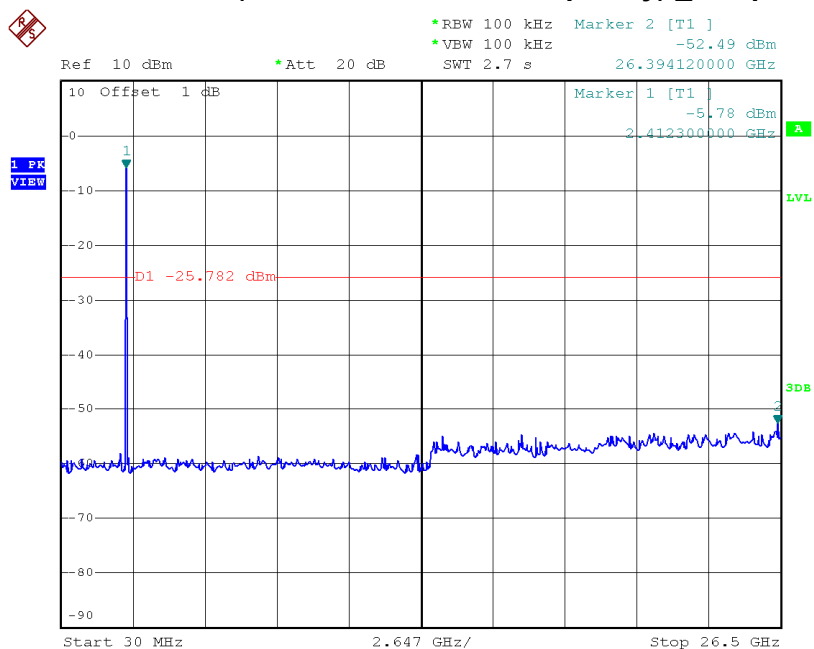
Date: 17.NOV.2014 20:47:25

CH00 (10 Harmonic of the frequency) _3Mbps



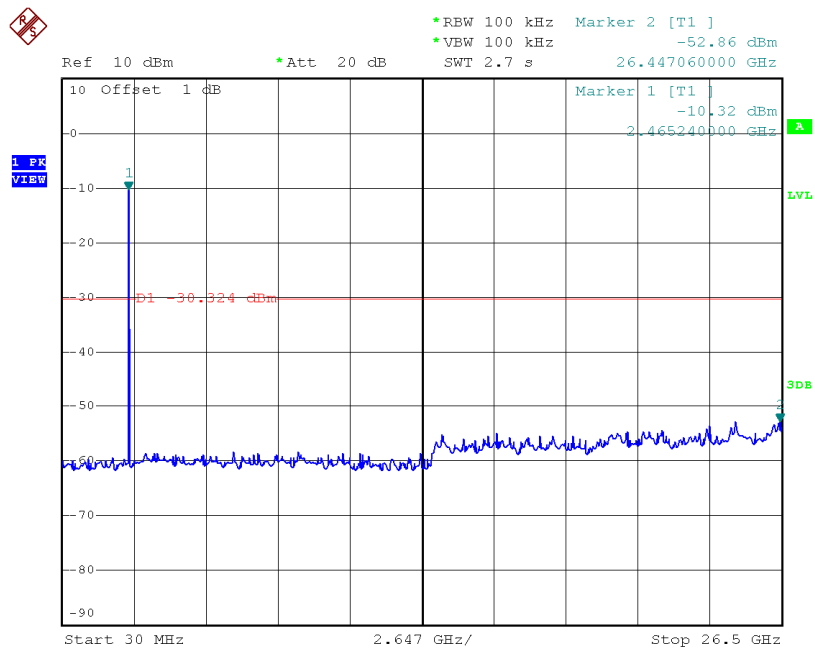
Date: 17.NOV.2014 20:35:57

CH39 (10 Harmonic of the frequency) _3Mbps



Date: 17.NOV.2014 20:37:07

CH78 (10 Harmonic of the frequency) _3Mbps



Date: 17.NOV.2014 20:37:50