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Report No.: SHEM180300234401

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Page: 1 of 59

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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1803002344CR
Applicant:	Qualcomm Atheros, Inc.
FCC ID:	PPD-QCNFA435
IC:	4104A-QCNFA435
Equipment Under Test (EUT):	
NOTE: The following sample(s) was/were submitted and identified by the client as	
Product Name:	Notebook Computer
Model No.(EUT):	Lenovo ideapad 330S-15IKB GTX1050; 81GC
Standards:	FCC PART 15 Subpart C: 2017 Canada RSS-247 Issue 2 Canada RSS-Gen Issue 4
Date of Receipt:	March 8, 2018
Date of Test:	March 19, 2018~ March 21, 2018
Date of Issue:	March 22, 2018
Test Result:	Refer to test Summary*

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2018-3-23	/	Original

Authorized for issue by:			
Engineer		 Vincent Zhu	
Reviewer		 Eddy Zong	
		<hr/> Vincent Zhu /Project Engineer	<hr/> Date
		<hr/> Eddy Zong /Reviewer	<hr/> Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Conducted Output Power	FCC Part 15, Subpart C Section 15.247 (b)(3) Canada RSS-247 Issue 2 Canada RSS-Gen Issue 4	ANSI C63.10 (2013) Section 11.9.1.2	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.209&15.205 Canada RSS-247 Issue 2 Canada RSS-Gen Issue 4	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS

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5 General Information

5.1 Client Information

Applicant: Qualcomm Atheros, Inc.
Address of Applicant: 1700 Technology Drive, San Jose, CA 95110
Manufacturer: Qualcomm Atheros, Inc.
Address of Manufacturer: 1700 Technology Drive, San Jose, CA 95110
Factory:N/A
Address of Factory:N/A

5.2 General Description of E.U.T.

Product Description:	802.11 a/b/g/n/ac+Bluetooth 1T/1R
Brand Name:	Lenovo
Power Adapter Power Rating :	Brand Name: Lenovo Model : ADLX90NDC3A Input: 100-240V~1.5A 50-60Hz Output: 20V — 4.5A
Test Voltage:	AC 120V,60Hz

5.3 Technical Specifications

Operation Frequency:	802.11 b/g/n(HT20): 2412MHz~2462MHz 802.11 n(HT40): 2422MHz~2452MHz Bluetooth:2402~2480MHz		
Modulation Technique:	802.11 b: DSSS(CCK, DQPSK, DBPSK) 802.11 g/n(HT20/n(HT40): OFDM(64QAM, 16QAM, QPSK, BPSK) Bluetooth 2.1+EDR:GFSK for 1Mbps;π/4-DQPSK for 2Mbps; 8DPSK for 3Mbps Bluetooth 4.1:GFSK		
Number of Channel:	802.11 b/g/n(HT20): 11 802.11 n(HT40): 7 Bluetooth 2.1+EDR :79Channels Bluetooth 4.1 :40Channels		
Antenna Type:	PIFA		
Antenna Gain:	Brand	Gain(dBi)	
		2.4G	
		TX1	TX2
	South Star	2.6	2.58
	INPAQ	1.36	1.49

5.4 Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting in max power level



5.5 Test Channel

	802.11 b/g/n20(HT20)					802.11 n40(HT40)		
	Channel	Frequency	Data rate			Channel	Frequency	Data rate
			b	g	n(HT20)			
lowest channel	CH01	2412MHz	1Mbps	6Mbps	MCS0	CH03	2422MHz	MCS0
Middle channel	CH06	2437MHz	1Mbps	6Mbps	MCS0	CH06	2437MHz	MCS0
Highest channel	CH11	2462MHz	1Mbps	6Mbps	MCS0	CH09	2452MHz	MCS0

Bluetooth 2.1+EDR					Bluetooth 4.1		
	Channel	Frequency	Data rate		Channel	Frequency	Data rate
			1Mbps	3Mbps			
lowest channel	CH00	2402MHz	GFSK	8DPSK	CH00	2402MHz	GFSK
Middle channel	CH39	2441MHz	GFSK	8DPSK	CH19	2440MHz	GFSK
Highest channel	CH78	2480MHz	GFSK	8DPSK	CH39	2480MHz	GFSK

Remark:1. Preliminary tests were performed in all tests in different data rata and antenna configurations at lowest channel, the data rates of worse case as above were chosen for final test.

5.6 Description of Support Units

The EUT has been tested with support equipments as below.

Description	Manufacturer	Model No.	Supplied By
-	-	-	-

Software name	Manufacturer	Version	Supplied By
QRCT-CONN30160	Qualcomm	-	Client

5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

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5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 17025:2005 General Requirements for the Competence of Testing and Calibration (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration) for the competence in the field of testing.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Registration of Voluntary Control Measures with Registration No.: R-3868,C-4336,T-12221,G-10830 re

5.9 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10 ⁻⁵
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (Below 1GHz) < ±6 dB (Above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %



6 Equipments Used during Test

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at AC Power Line					
EMI test receiver	R&S	ESR7	SHEM162-1	2017-12-20	2018-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
LISN	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
CE test Cable	/	CE01	/	2017-12-26	2018-12-25
Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2017-07-03	2018-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW500	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test cable	/	RF 01,RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2016-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-26.5GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
High-amplifier(14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25

7 Test Results

7.1 E.U.T. test conditions

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

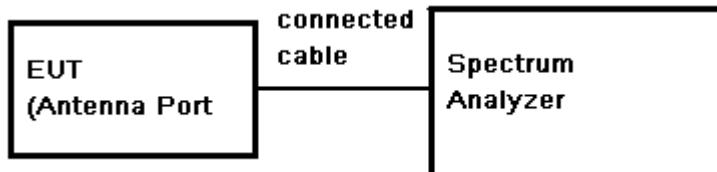
Operating Environment:	Temperature:	20.0 -25.0 °C
	Humidity:	35-75 % RH
	Atmospheric Pressure:	99.2 -102 kPa

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

7.2 Conducted Output Power

Test Configuration:**Test Procedure:**

1. The testing follows ANSI63.10-2013 clause 12.3.3.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter, Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}. and record the results in the test report.

Band	Duty Cycle(%)	Duty factor
IEEE 802.11b	99	0.04
IEEE 802.11g	96	0.18
IEEE 802.11n HT20	95	0.22
IEEE 802.11n HT40	91	0.41
BT (GFSK+8DPSK)	77	1.14
BT4.1	67	1.74

Test Limit: 30dBm**Test Result:** Pass**Test Data:**

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**WLAN 2.4G Chain0**

Mode	Channel	Frequency (MHZ)	Chain0 Target power(dBm)	Turn-up tolerance (dBm)	Maximum Turn-up power (dBm)	Average power (dBm)
802.11 b	1	2412	15.5	±1.5	17	16.69
	6	2437	15.5	±1.5	17	16.63
	11	2462	15.5	±1.5	17	16.87
802.11 g	1	2412	15.5	±1.5	17	16.85
	6	2437	15.5	±1.5	17	16.69
	11	2462	15.5	±1.5	17	16.85
802.11 n 20MHz	1	2412	14.5	±1.5	16	15.97
	6	2437	14.5	±1.5	16	15.76
	11	2462	14.5	±1.5	16	15.94
802.11 n 40MHz	3	2422	14.5	±1.5	16	15.89
	6	2437	14.5	±1.5	16	15.90
	9	2452	12.5	±1.5	14	13.97

WLAN 2.4G Chain1

Mode	Channel	Frequency (MHZ)	Chain1 Target power(dBm)	Turn-up tolerance (dBm)	Maximum Turn-up power (dBm)	Average power (dBm)
802.11 b	1	2412	15.5	±1.5	17	16.61
	6	2437	15.5	±1.5	17	16.58
	11	2462	15.5	±1.5	17	16.81
802.11 g	1	2412	15.5	±1.5	17	16.82
	6	2437	15.5	±1.5	17	16.96
	11	2462	15.5	±1.5	17	16.83
802.11 n 20MHz	1	2412	14.5	±1.5	16	15.92
	6	2437	14.5	±1.5	16	15.71
	11	2462	14.5	±1.5	16	15.93
802.11 n 40MHz	3	2422	14.5	±1.5	16	15.78
	6	2437	14.5	±1.5	16	15.44
	9	2452	12.5	±1.5	14	13.82

Bluetooth

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Band	Mode	Channel	Frequency	Averaged Power (dBm)
2.4 GHz	Bluetooth BR (GFSK)	0	2402	5.06
		39	2441	5.27
		78	2480	5.33
	Bluetooth EDR2 ($\pi/4$ -DQPSK)	0	2402	1.67
		39	2441	1.98
		78	2480	1.83
	Bluetooth EDR3 (8-DPSK)	0	2402	1.55
		39	2441	1.9
		78	2480	1.97
	Bluetooth 4.1	0	2402	1.49
		19	2440	1.65
		39	2480	1.57

Note: Duty factor has been offseted with cableloss.

7.3 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m

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Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Peak	100kHz	300kHz
	Quasi-peak	100kHz	300kHz
Above 1GHz:	Peak	1MHz	VBW≥RBW
	Average	RBW=1MHz	See Remark

Sweep=Auto

Remark:

Above 1GHz:

AVERAGE: RBW=1MHz / Sweep=AUTO

VBW=10Hz, when duty cycle is no less than 98 percent.

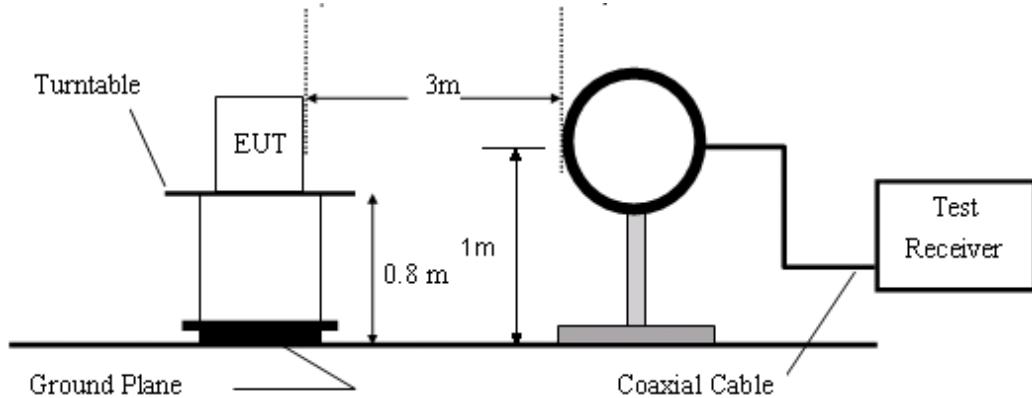
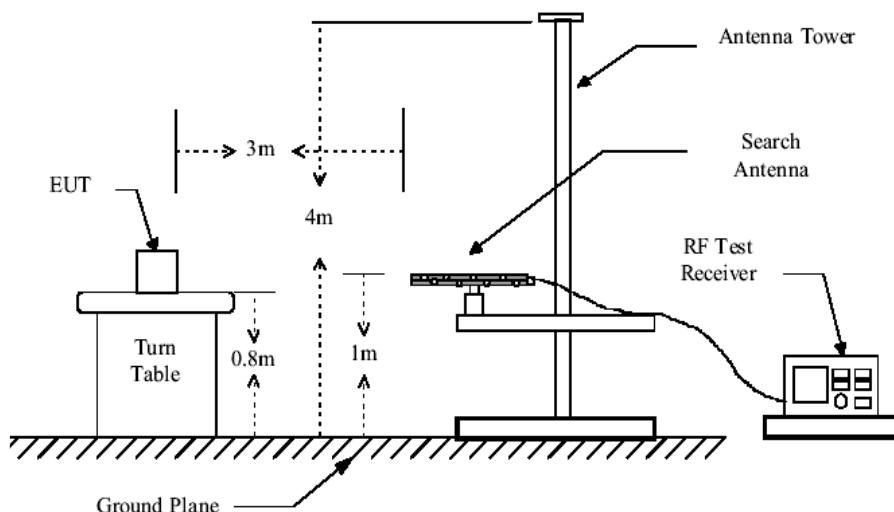
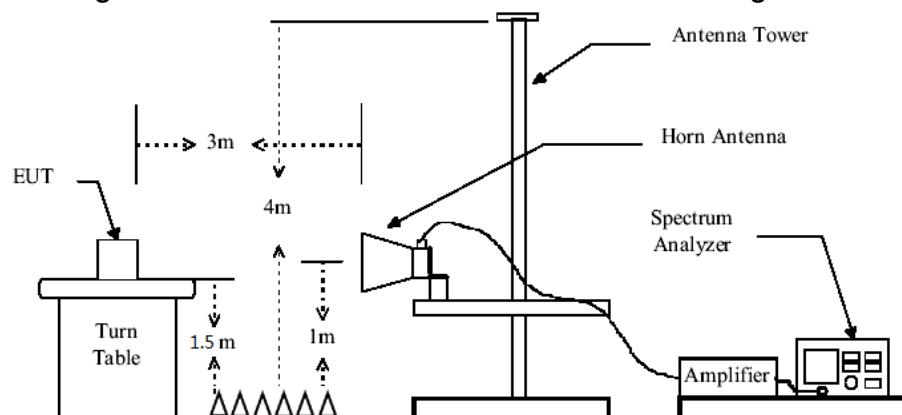
VBW $\geq 1/T$, when duty cycle is less than 98 percent, where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
IEEE 802.11b	99	-	-	10Hz
IEEE 802.11g	96	2.088	0.48	0.5kHz
IEEE 802.11n HT20	95	1.948	0.51	1kHz
IEEE 802.11n HT40	91	0.965	1.04	2kHz
BT (GFSK+8DPSK)	77	2.917	0.34	0.5kHz
BT4.1	67	0.421	2.37	3kHz

15.209 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009MHz-0.490MHz	2400/F(KHz)	128.5 ~ 93.8
0.490MHz-1.705MHz	24000/F(KHz)	73.8 ~63.0
1.705MHz-30MHz	30	69.5
30MHz-88MHz	100	40.0
88MHz-216MHz	150	43.5
216MHz-960MHz	200	46.0
960MHz-1GHz	500	54.0
Above 1GHz	500	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration:

Figure1. Below 30MHz radiated emissions test configuration

Figure2. 30MHz to 1GHz radiated emissions test configuration

Figure3. Above 1GHz radiated emissions test configuration



Test Procedure:

- 1) The procedure used was ANSI Standard C63.10. The receiver was scanned from 9 KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
- 2) Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
- 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
 - b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 4) Pretest under all modes below 1GHz; choose the worst case mode (802.11b) record on the report.
- 5) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result: Pass

7.3.1 Radiated Spurious Emissions

30MHz-1GHz:

Item	Freq.	Read Level	Correct	Result	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dB μ V)	Factor(dB/m)	(dB μ V/m)	(dB μ V/m)	(dB)		
1	340.4000	17.08	18.26	35.34	46.00	-10.66	peak	Horizontal
2	359.8000	15.64	19.31	34.95	46.00	-11.05	peak	Horizontal
3	455.8300	15.24	21.01	36.25	46.00	-9.75	peak	Horizontal
4	647.8900	8.79	25.04	33.83	46.00	-12.17	peak	Horizontal
5	840.9200	6.93	26.18	33.11	46.00	-12.89	peak	Horizontal
6	937.9200	8.82	26.59	35.41	46.00	-10.59	peak	Horizontal
1	494.6300	12.93	21.70	34.63	46.00	-11.37	peak	Vertical
2	537.3100	10.72	21.90	32.62	46.00	-13.38	peak	Vertical
3	568.3500	9.51	22.94	32.45	46.00	-13.55	peak	Vertical
4	600.3600	7.68	24.67	32.35	46.00	-13.65	peak	Vertical
5	647.8900	7.76	25.04	32.80	46.00	-13.20	peak	Vertical
6	958.2900	6.66	26.86	33.52	46.00	-12.48	peak	Vertical

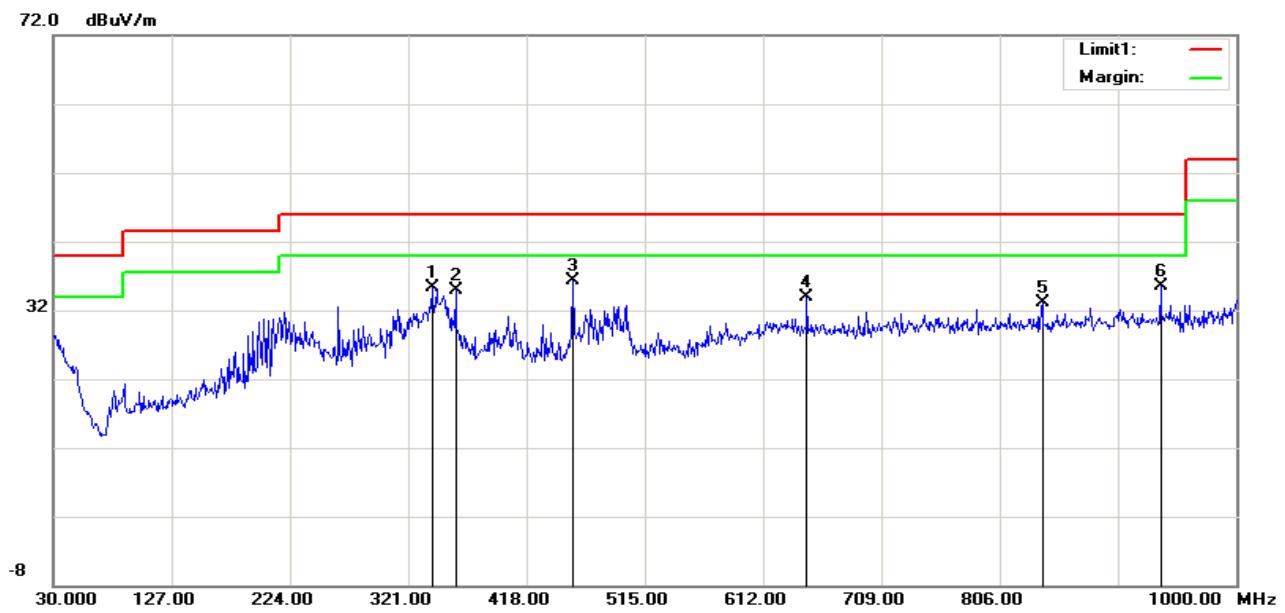
Remark:

1. Measuring frequencies from 30 MHz to the 1GHz (No emission found between lowest internal used/generated frequency to 30 MHz).
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Over Limit (dB) = Result (dB μ V/m) - Limit Line (dB μ V/m).

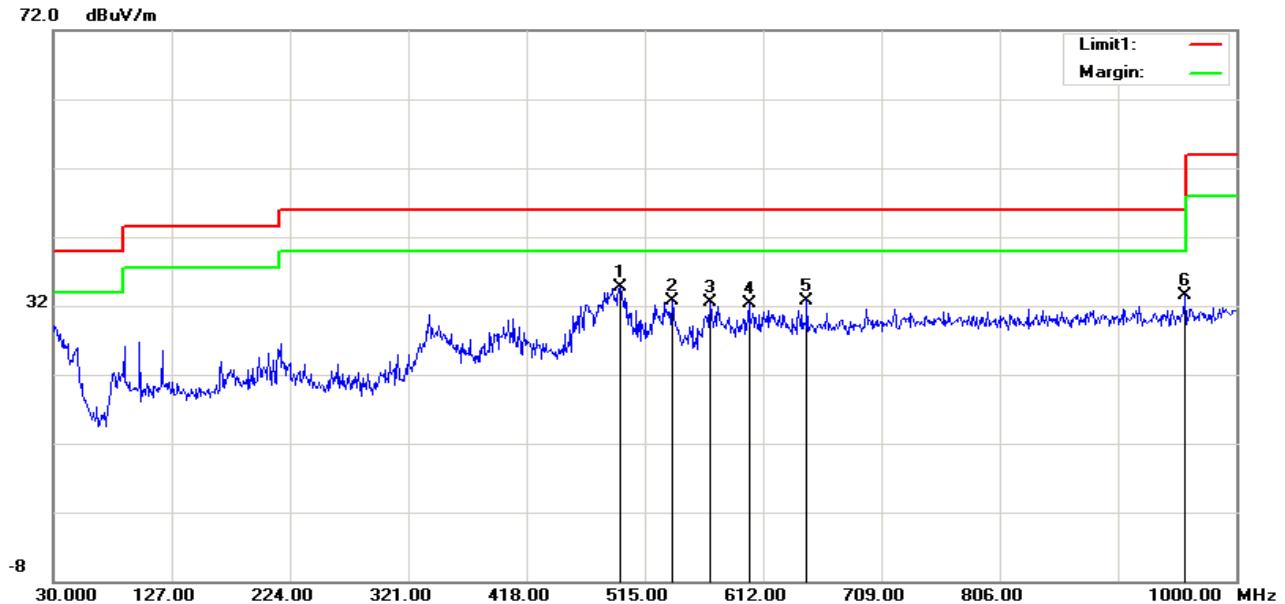
Note: Below 30MHz and above 18GHz. The measured value have enough margin over 20dB than the limit, therefore they are not reported.

Test plot as below:

Horizontal:



Vertical:



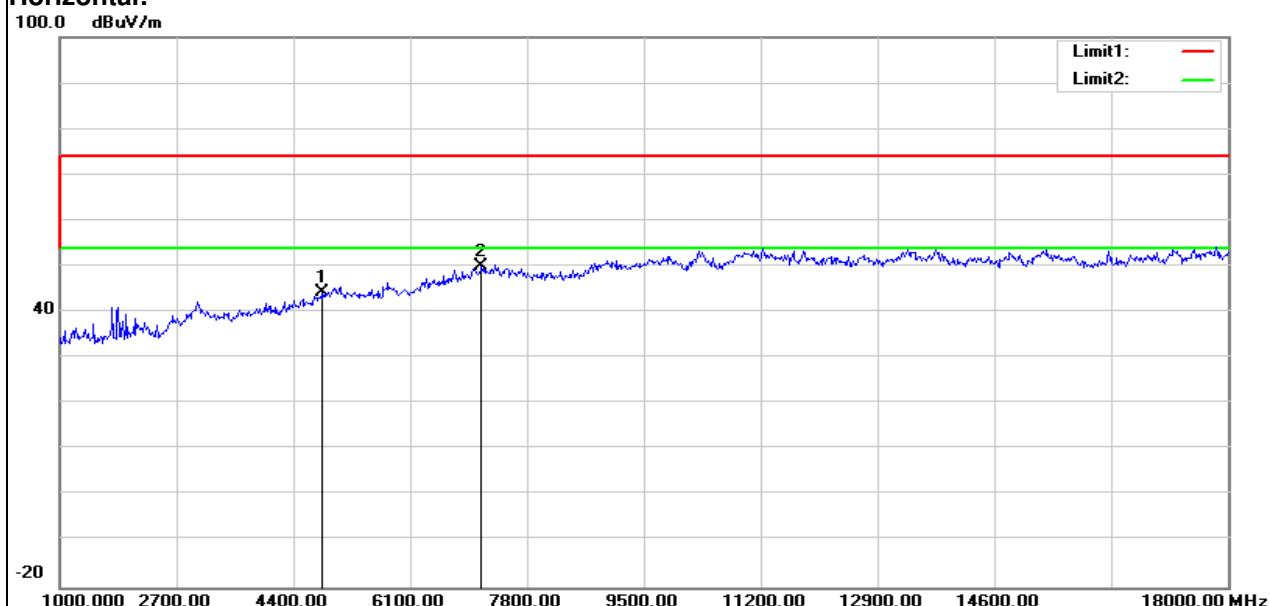
Above 1GHz:

Test mode: 802.11b

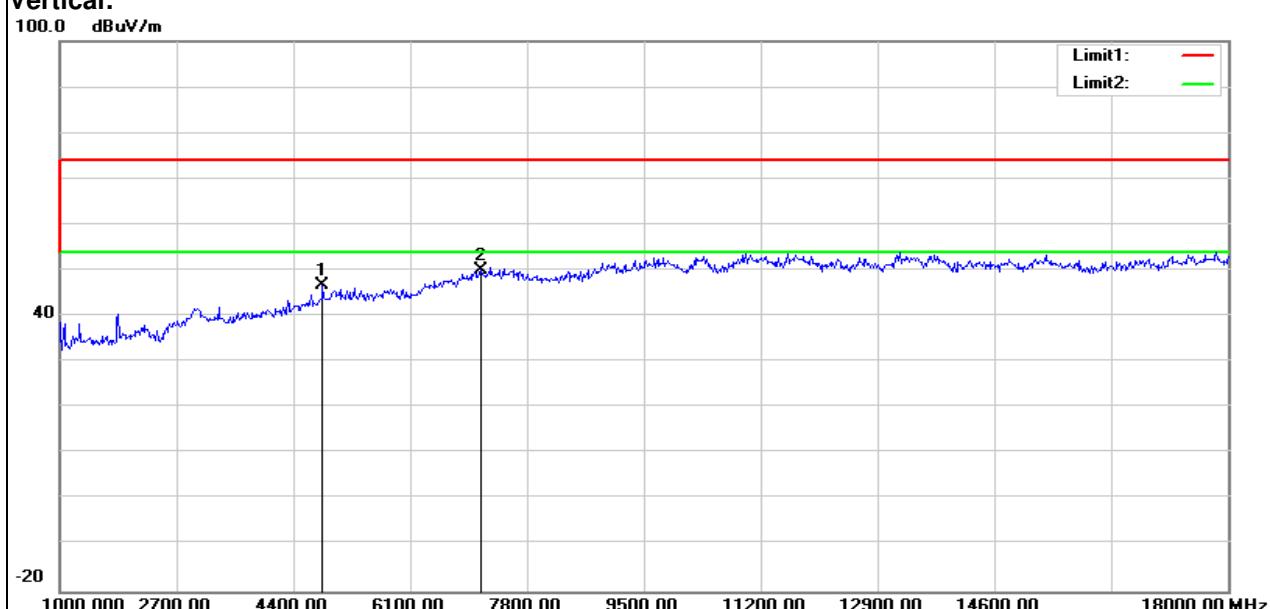
Channel: 2412

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4825.000	44.98	-0.68	44.30	74.00	-29.70	peak	Horizontal
2	7137.000	44.32	5.69	50.01	74.00	-23.99	peak	Horizontal
3	4825.000	47.31	-0.68	46.63	74.00	-27.37	peak	Vertical
4	7120.000	44.27	5.68	49.95	74.00	-24.05	peak	Vertical

Horizontal:



Vertical:

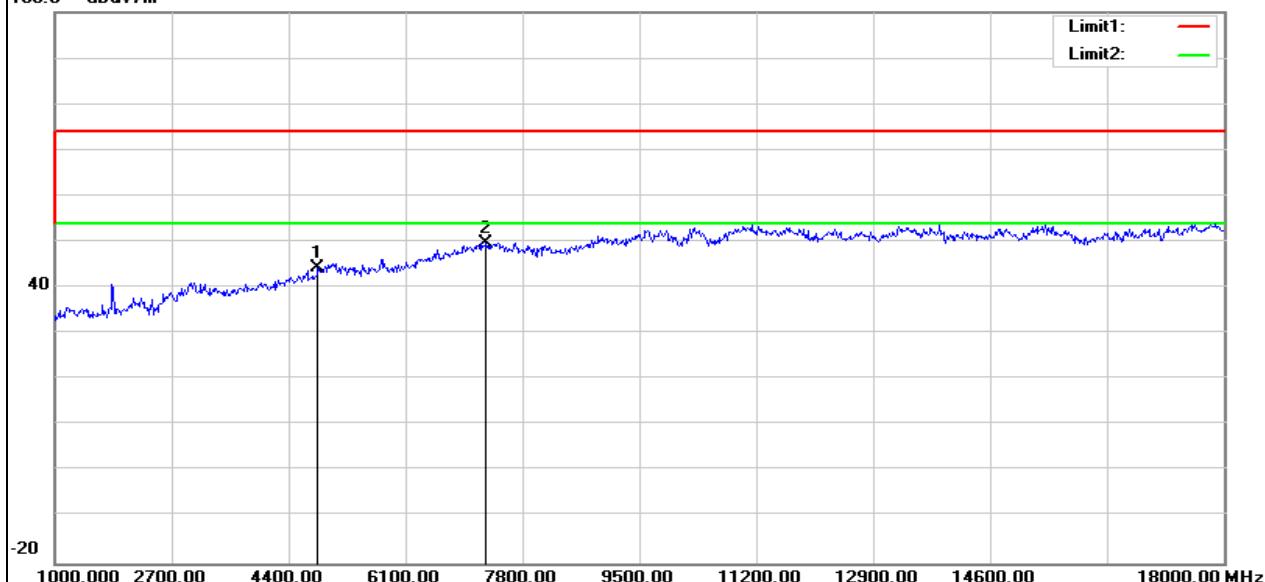


Test mode: 802.11b
Channel: 2437

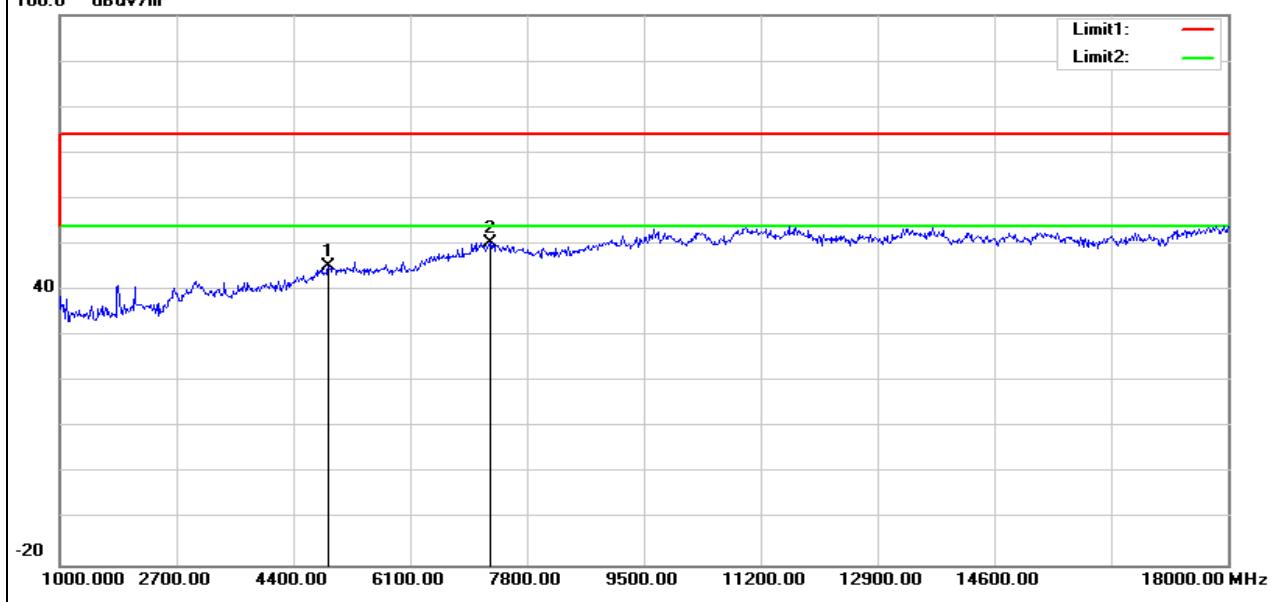
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4825.000	44.95	-0.68	44.27	74.00	-29.73	peak	Horizontal
2	7273.000	43.88	5.78	49.66	74.00	-24.34	peak	Horizontal
3	4910.000	45.25	-0.12	45.13	74.00	-28.87	peak	Vertical
4	7256.000	44.64	5.77	50.41	74.00	-23.59	peak	Vertical

Horizontal:

100.0 dBuV/m

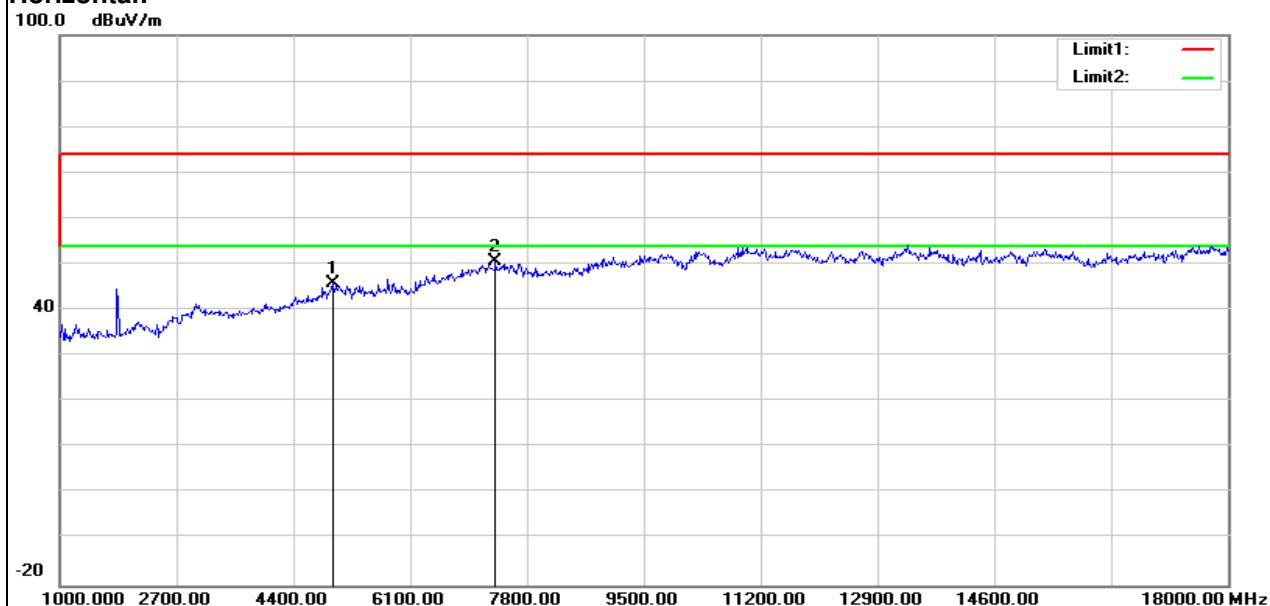
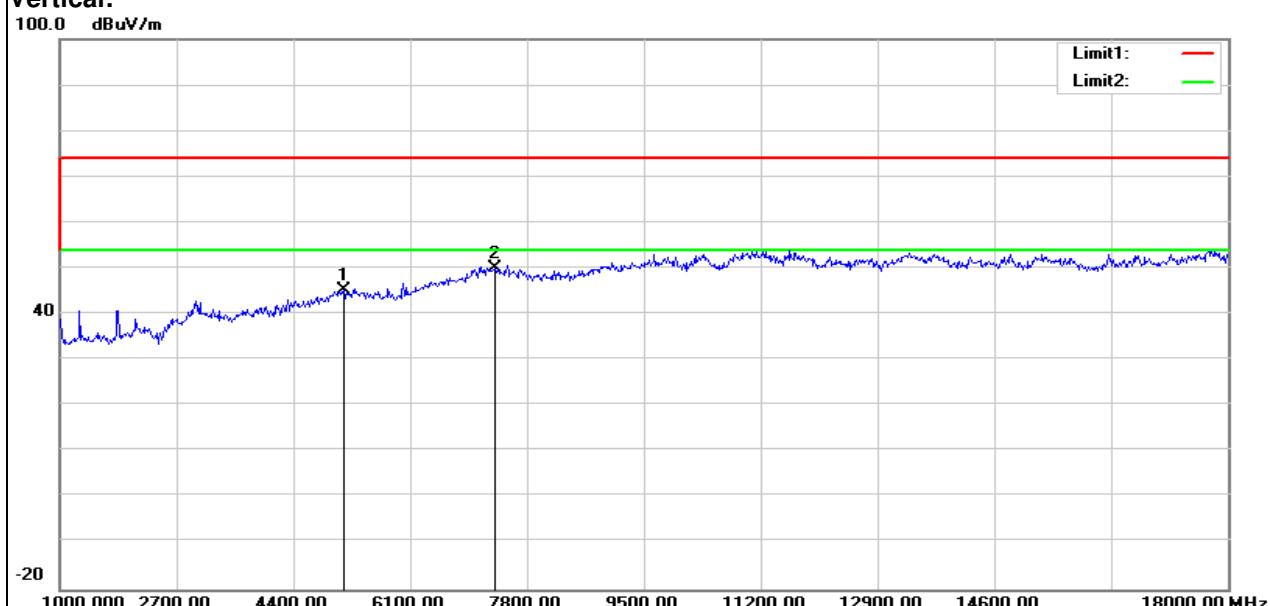

Vertical:

100.0 dBuV/m


Test mode: 802.11b
Channel: 2462

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Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4978.000	45.44	0.33	45.77	74.00	-28.23	peak	Horizontal
2	7341.000	44.80	5.82	50.62	74.00	-23.38	peak	Horizontal
3	5131.000	44.79	0.49	45.28	74.00	-28.72	peak	Vertical
4	7324.000	44.28	5.81	50.09	74.00	-23.91	peak	Vertical

Horizontal:

Vertical:

Test mode: 802.11g
Channel: 2412

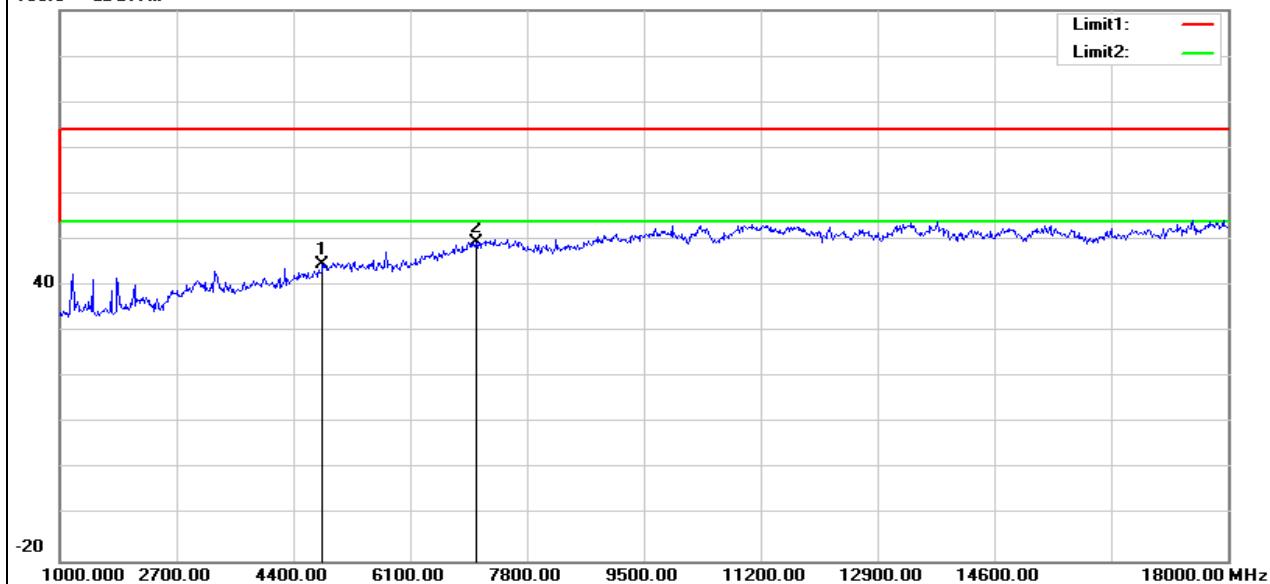
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
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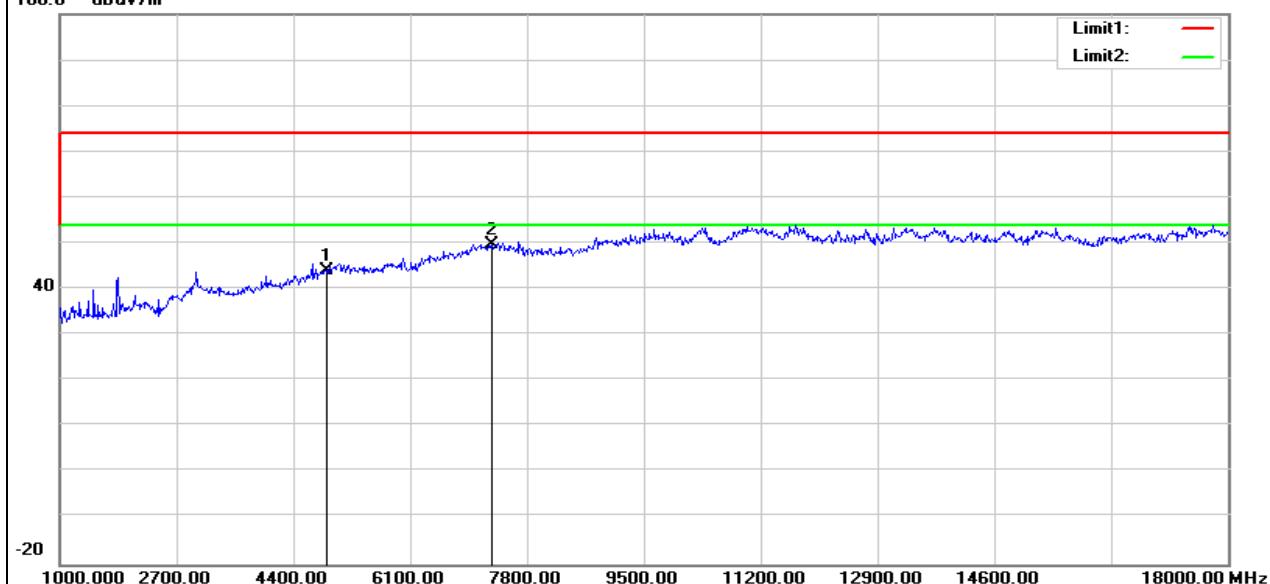
1	4825.000	45.19	-0.68	44.51	74.00	-29.49	peak	Horizontal
2	7052.000	43.86	5.64	49.50	74.00	-24.50	peak	Horizontal
3	4876.000	44.42	-0.34	44.08	74.00	-29.92	peak	Vertical
4	7290.000	44.04	5.79	49.83	74.00	-24.17	peak	Vertical

Horizontal:

100.0 dBuV/m


Vertical:

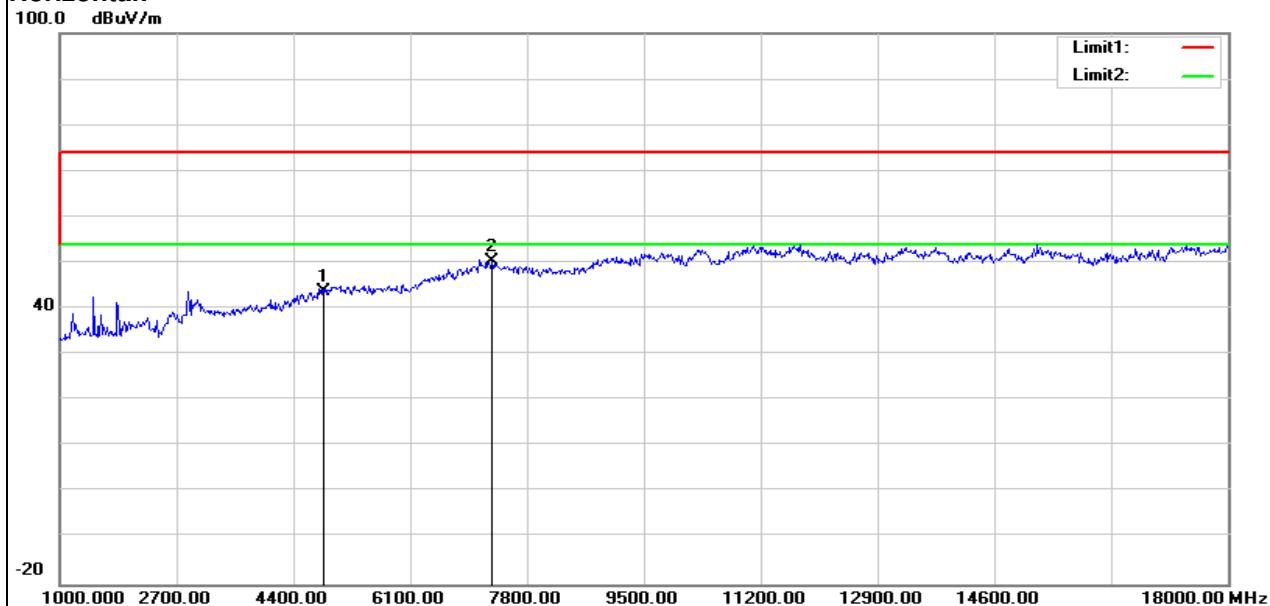
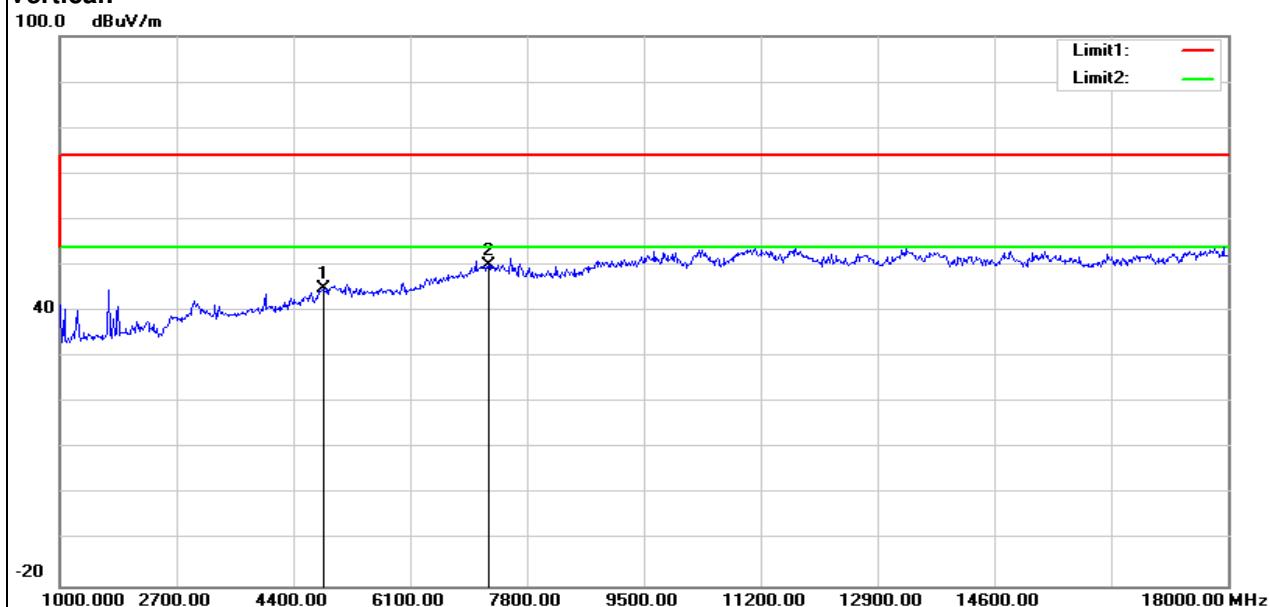
100.0 dBuV/m


Test mode: 802.11g
Channel: 2437

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4842.000	44.41	-0.57	43.84	74.00	-30.16	peak	Horizontal

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2	7290.000	44.64	5.79	50.43	74.00	-23.57	peak	Horizontal
3	4842.000	45.50	-0.57	44.93	74.00	-29.07	peak	Vertical
4	7239.000	44.33	5.76	50.09	74.00	-23.91	peak	Vertical

Horizontal:

Vertical:

Test mode: 802.11g
Channel: 2462

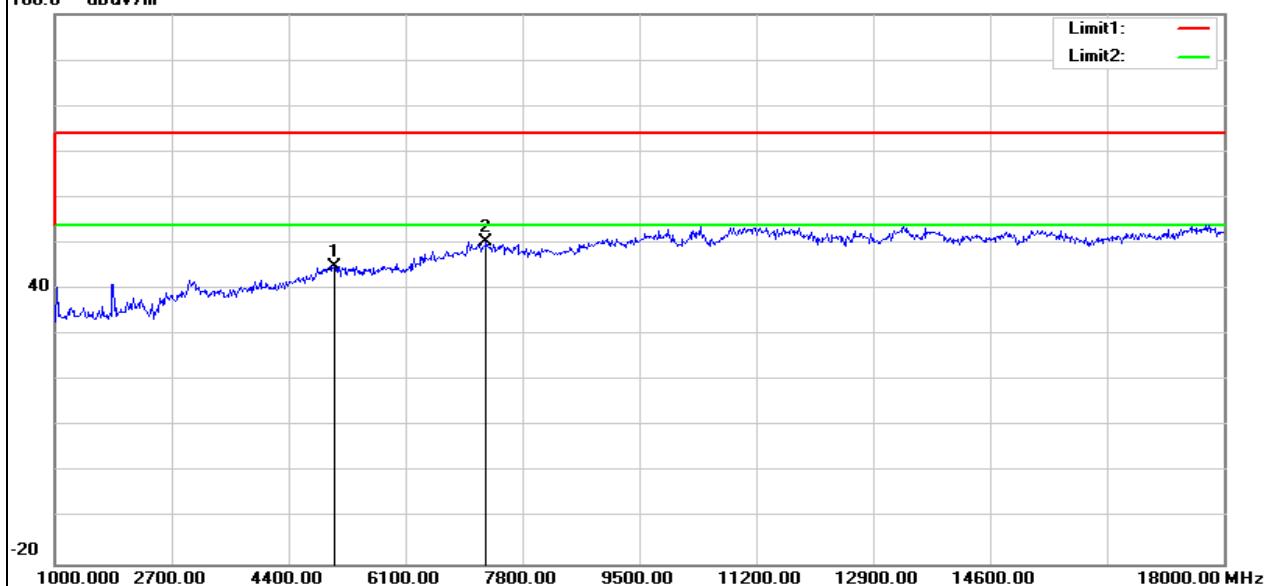
Mark	Frequency (MHz)	Reading (dB _{UV})	Factor (dB)	Emission (dB _{UV} /m)	Limit (dB _{UV} /m)	Over Limit (dB)	Detector	Polarization
1	5063.000	44.56	0.48	45.04	74.00	-28.96	peak	Horizontal
2	7273.000	44.69	5.78	50.47	74.00	-23.53	peak	Horizontal

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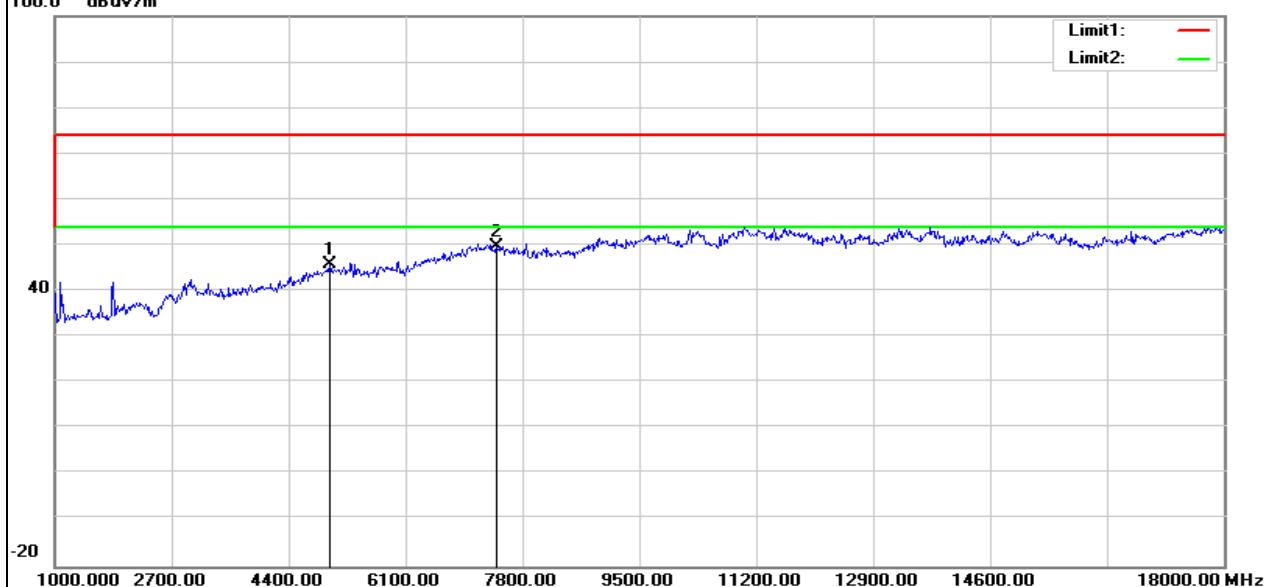
3	4995.000	45.43	0.44	45.87	74.00	-28.13	peak	Vertical
4	7426.000	43.86	5.87	49.73	74.00	-24.27	peak	Vertical

Horizontal:

100.0 dBuV/m


Vertical:

100.0 dBuV/m

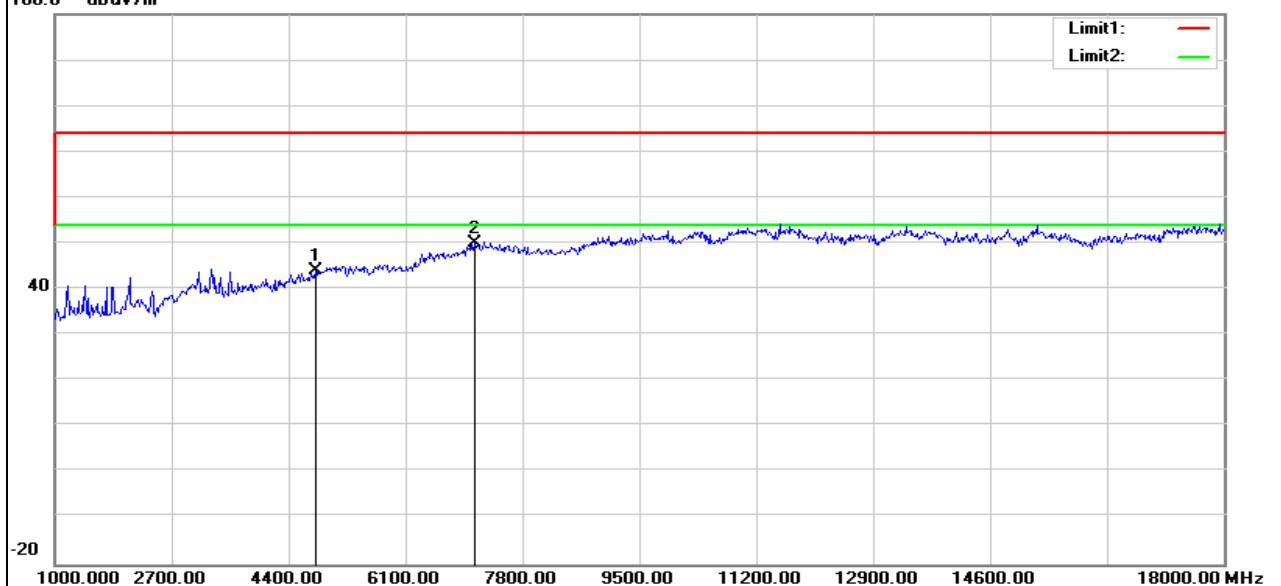

Test mode: 802.11 n(HT20)
Channel: 2412

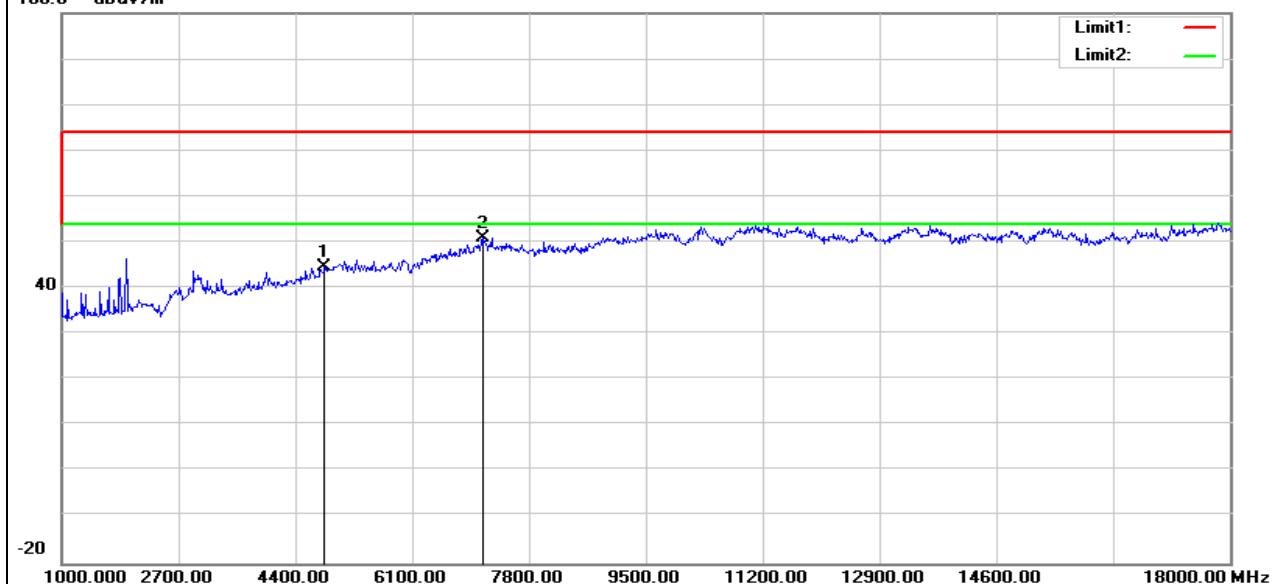
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4791.000	44.94	-0.90	44.04	74.00	-29.96	peak	Horizontal
2	7103.000	44.32	5.67	49.99	74.00	-24.01	peak	Horizontal

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3	4825.000	45.23	-0.68	44.55	74.00	-29.45	peak	Vertical
4	7120.000	45.28	5.68	50.96	74.00	-23.04	peak	Vertical

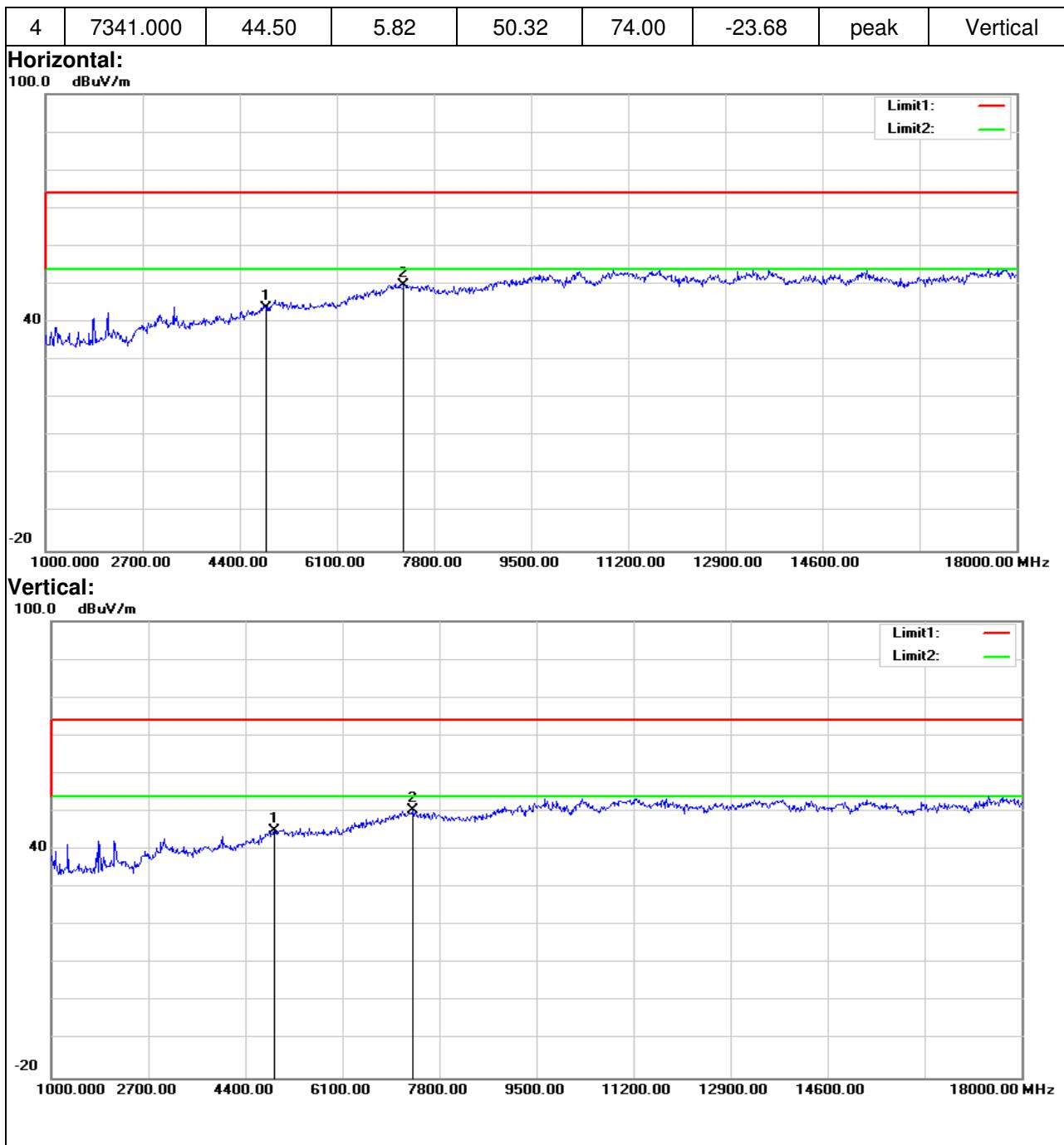
Horizontal:

100.0 dB_{uV/m}

Vertical:

100.0 dB_{uV/m}

Test mode: 802.11 n(HT20)
Channel: 2437

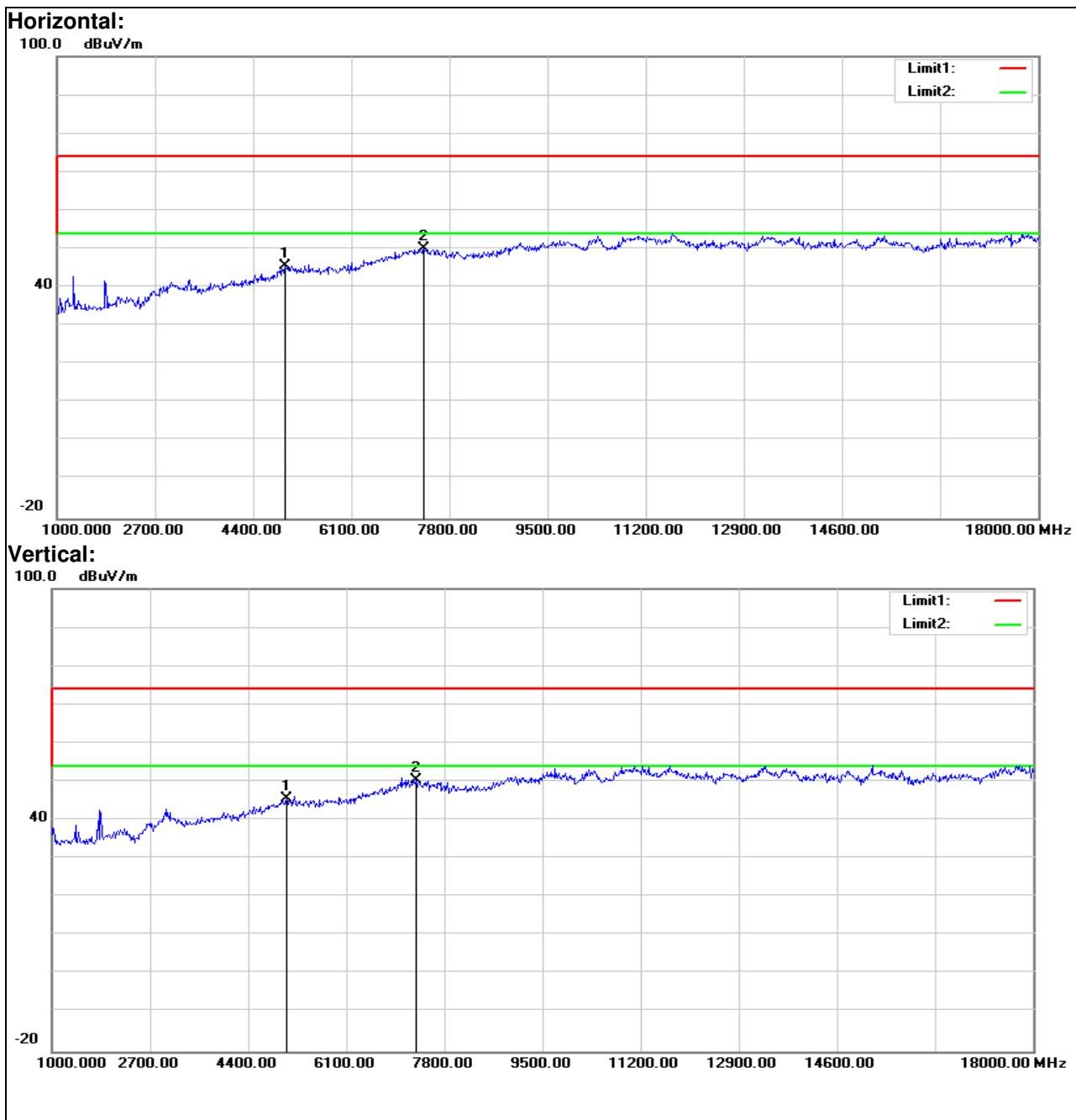
Mark	Frequency (MHz)	Reading (dB _{uV})	Factor (dB)	Emission (dB _{uV/m})	Limit (dB _{uV/m})	Over Limit (dB)	Detector	Polarization
1	4859.000	44.31	-0.45	43.86	74.00	-30.14	peak	Horizontal
2	7273.000	44.11	5.78	49.89	74.00	-24.11	peak	Horizontal
3	4910.000	45.06	-0.12	44.94	74.00	-29.06	peak	Vertical

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Test mode: 802.11 n(HT20)
Channel: 2462

Mark	Frequency (MHz)	Reading (dB _{uV})	Factor (dB)	Emission (dB _{uV/m})	Limit (dB _{uV/m})	Over Limit (dB)	Detector	Polarization
1	4944.000	45.47	0.10	45.57	74.00	-28.43	peak	Horizontal
2	7358.000	44.25	5.83	50.08	74.00	-23.92	peak	Horizontal
3	5063.000	44.99	0.48	45.47	74.00	-28.53	peak	Vertical
4	7307.000	44.41	5.80	50.21	74.00	-23.79	peak	Vertical

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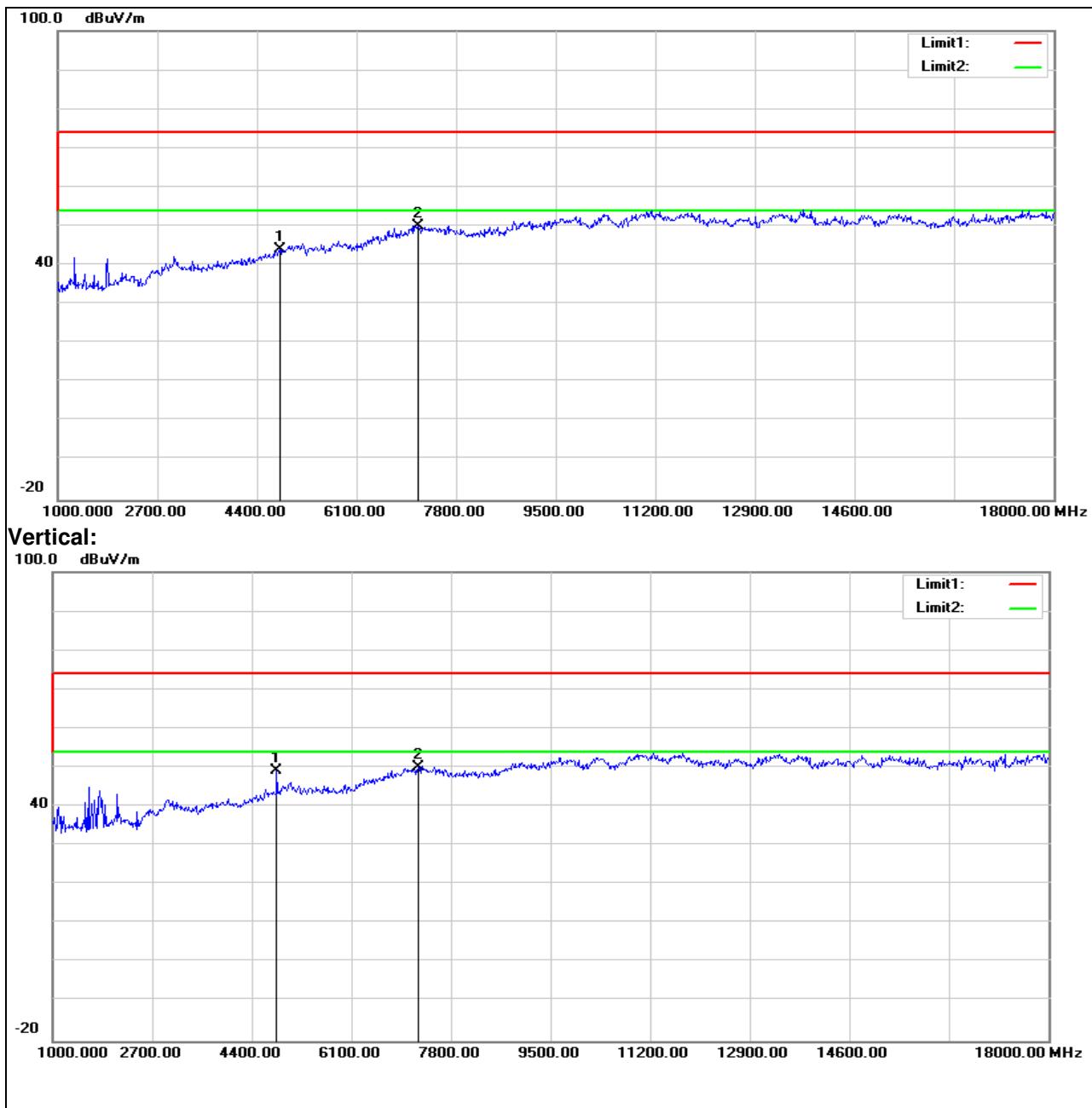
Test mode: 802.11 n(HT40)

Channel: 2422

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4791.000	44.93	-0.90	44.03	74.00	-29.97	peak	Horizontal
2	7154.000	44.20	5.71	49.91	74.00	-24.09	peak	Horizontal
3	4825.000	49.81	-0.68	49.13	74.00	-24.87	peak	Vertical
4	7239.000	44.34	5.76	50.10	74.00	-23.90	peak	Vertical

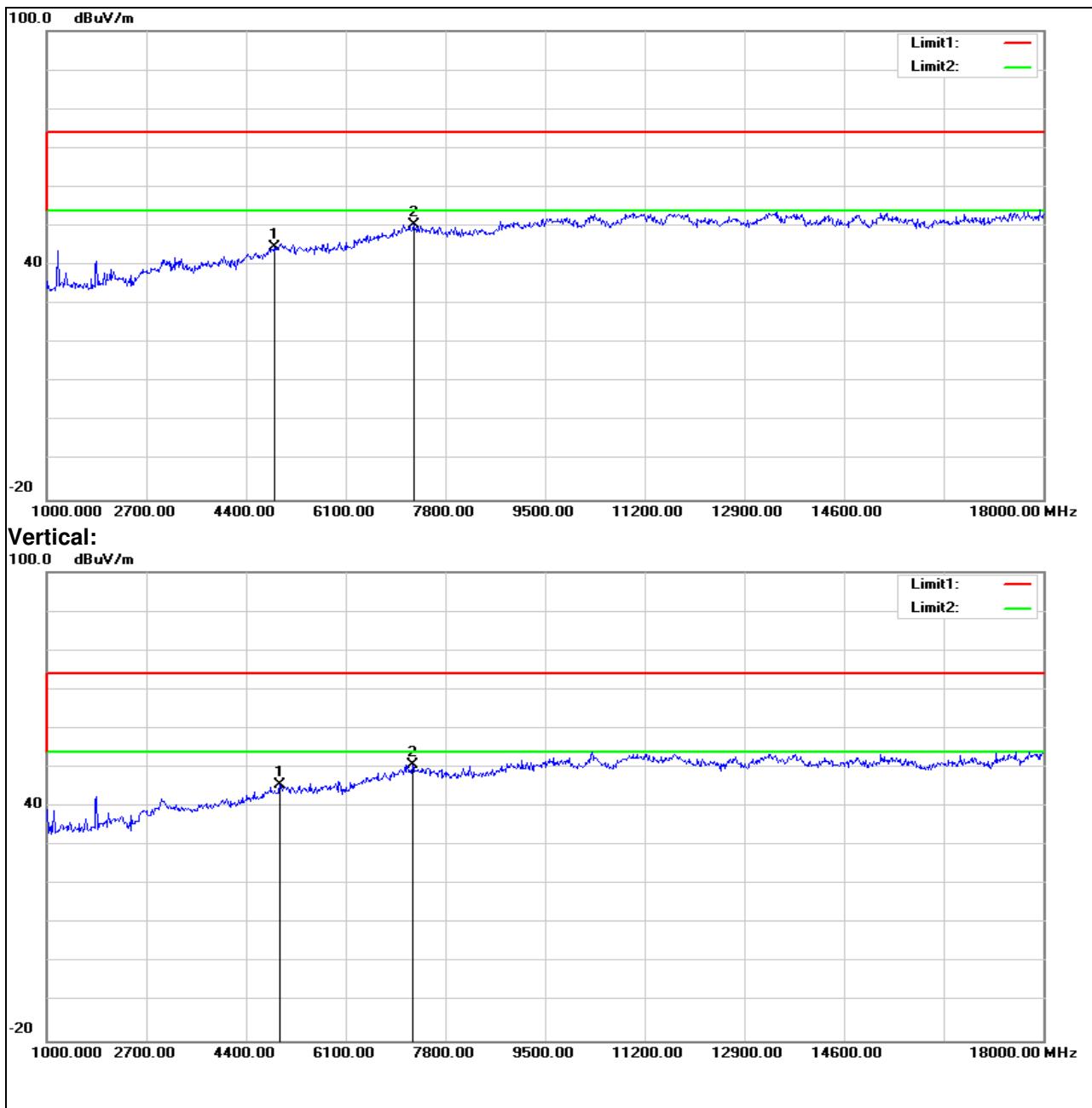
Horizontal:

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Test mode: 802.11 n(HT40)
Channel: 2437

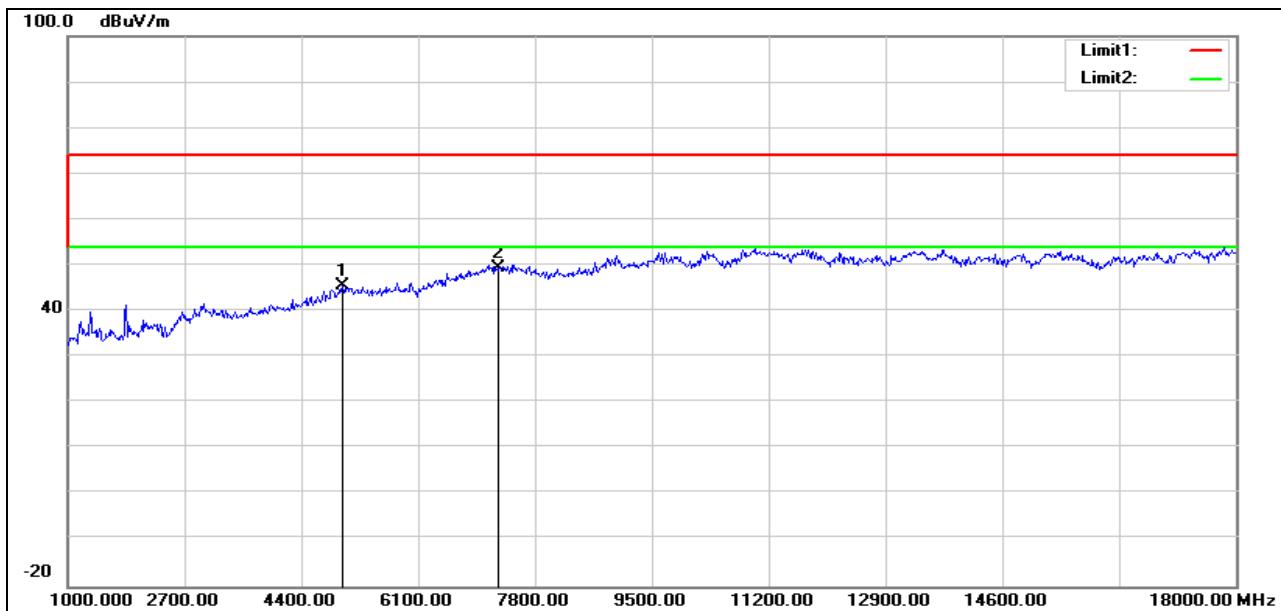
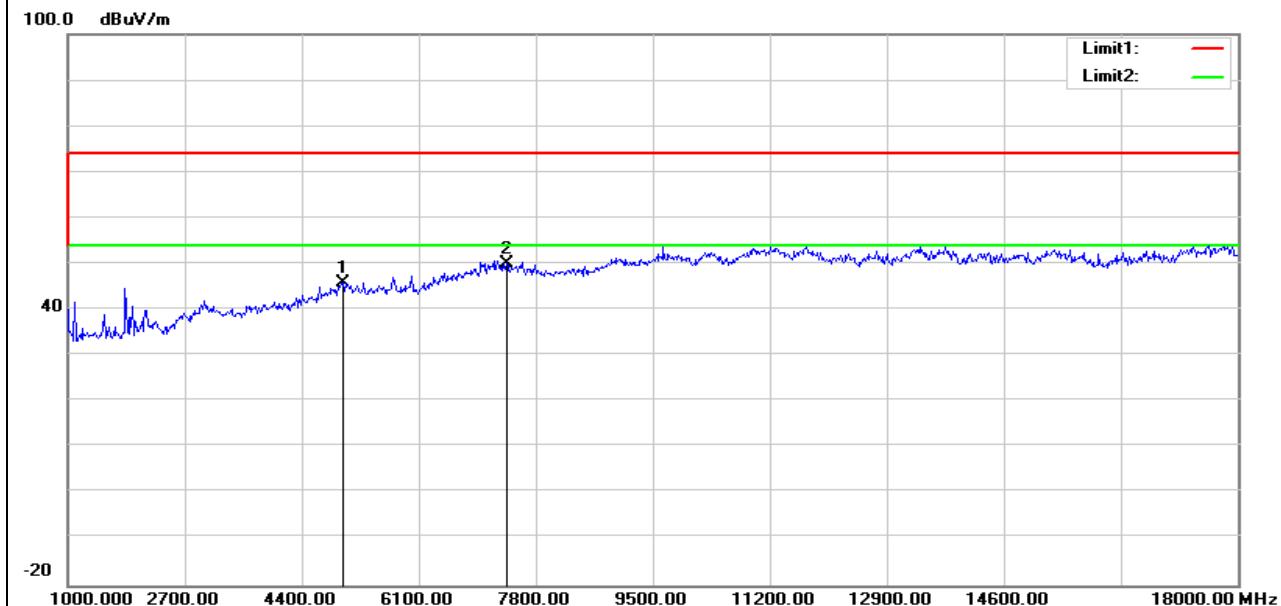
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4876.000	45.06	-0.34	44.72	74.00	-29.28	peak	Horizontal
2	7256.000	44.64	5.77	50.41	74.00	-23.59	peak	Horizontal
3	4978.000	45.34	0.33	45.67	74.00	-28.33	peak	Vertical
4	7239.000	44.90	5.76	50.66	74.00	-23.34	peak	Vertical

Horizontal:


Test mode: 802.11 n(HT40)
Channel: 2452

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4995.000	45.04	0.44	45.48	74.00	-28.52	peak	Horizontal
2	7273.000	43.76	5.78	49.54	74.00	-24.46	peak	Horizontal
3	4995.000	45.41	0.44	45.85	74.00	-28.15	peak	Vertical
4	7375.000	44.09	5.84	49.93	74.00	-24.07	peak	Vertical

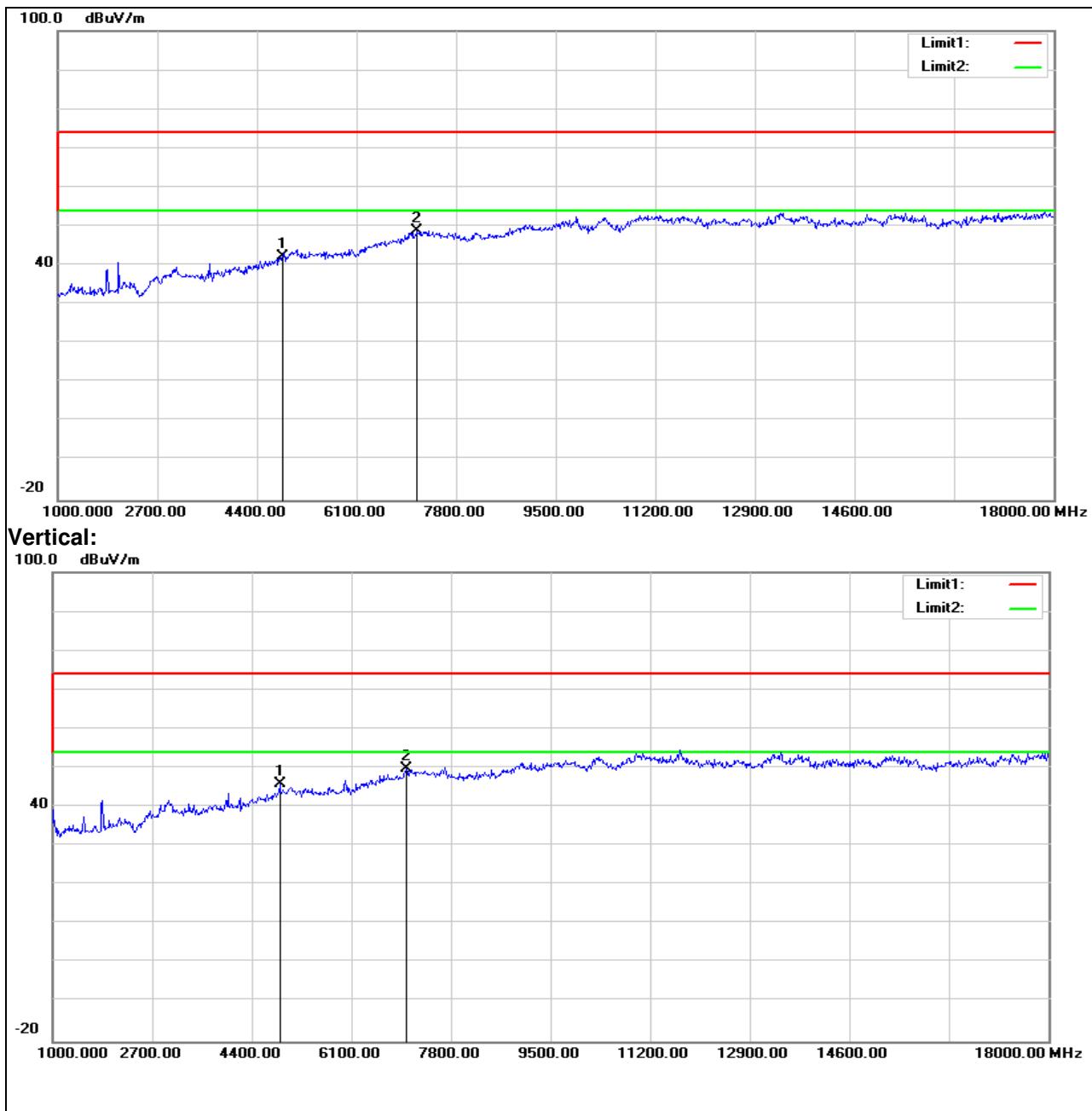
Horizontal:


Vertical:

BT For GFSK
Channel: 2402

Mark	Frequency (MHz)	Reading (dB _{uV})	Factor (dB)	Emission (dB _{uV/m})	Limit (dB _{uV/m})	Over Limit (dB)	Detector	Polarization
1	4842.000	42.72	-0.57	42.15	74.00	-31.85	peak	Horizontal
2	7137.000	43.09	5.69	48.78	74.00	-25.22	peak	Horizontal
3	4876.000	46.06	-0.34	45.72	74.00	-28.28	peak	Vertical
4	7035.000	44.14	5.63	49.77	74.00	-24.23	peak	Vertical

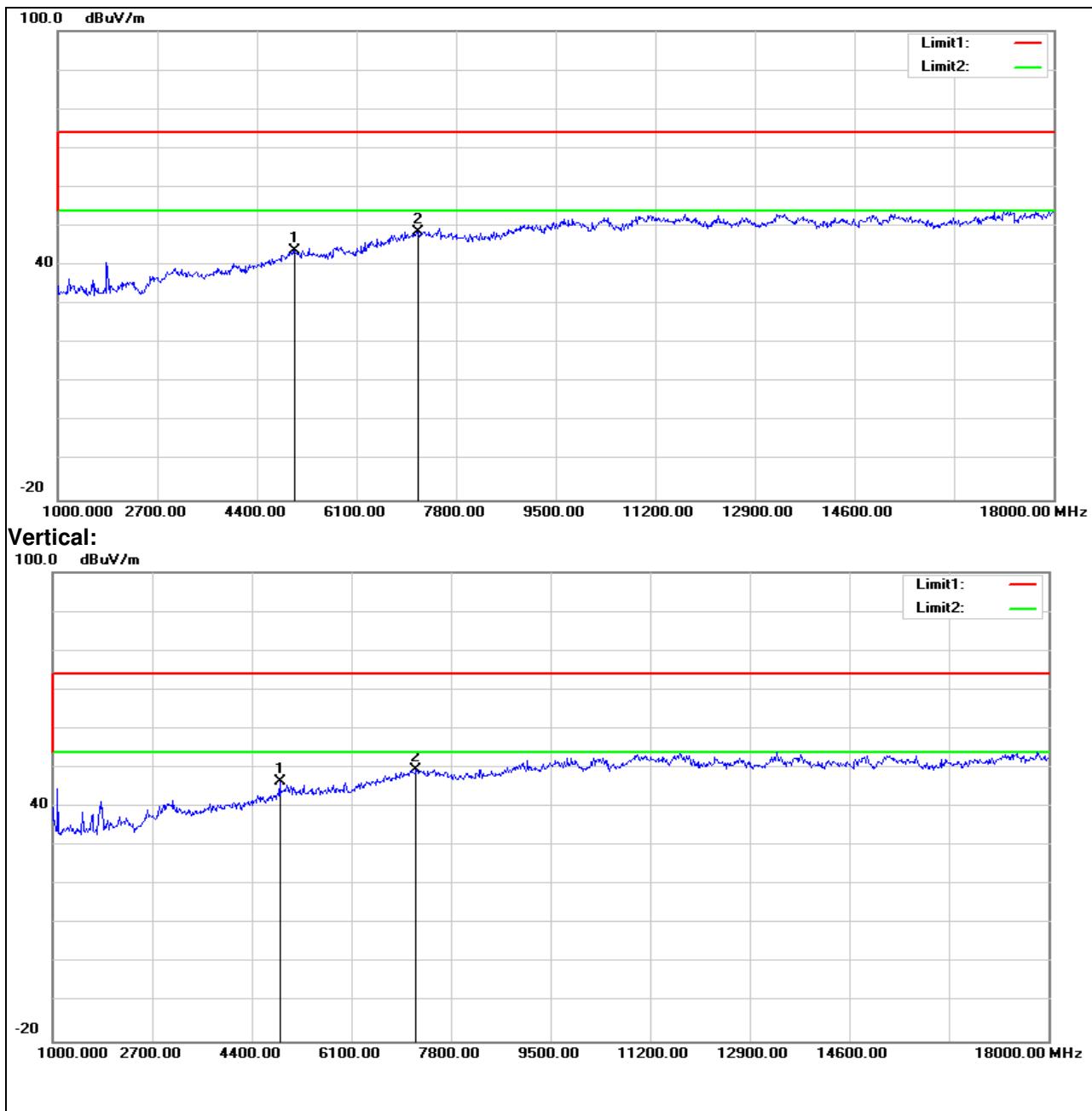
Horizontal:

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BT For GFSK
Channel: 2441

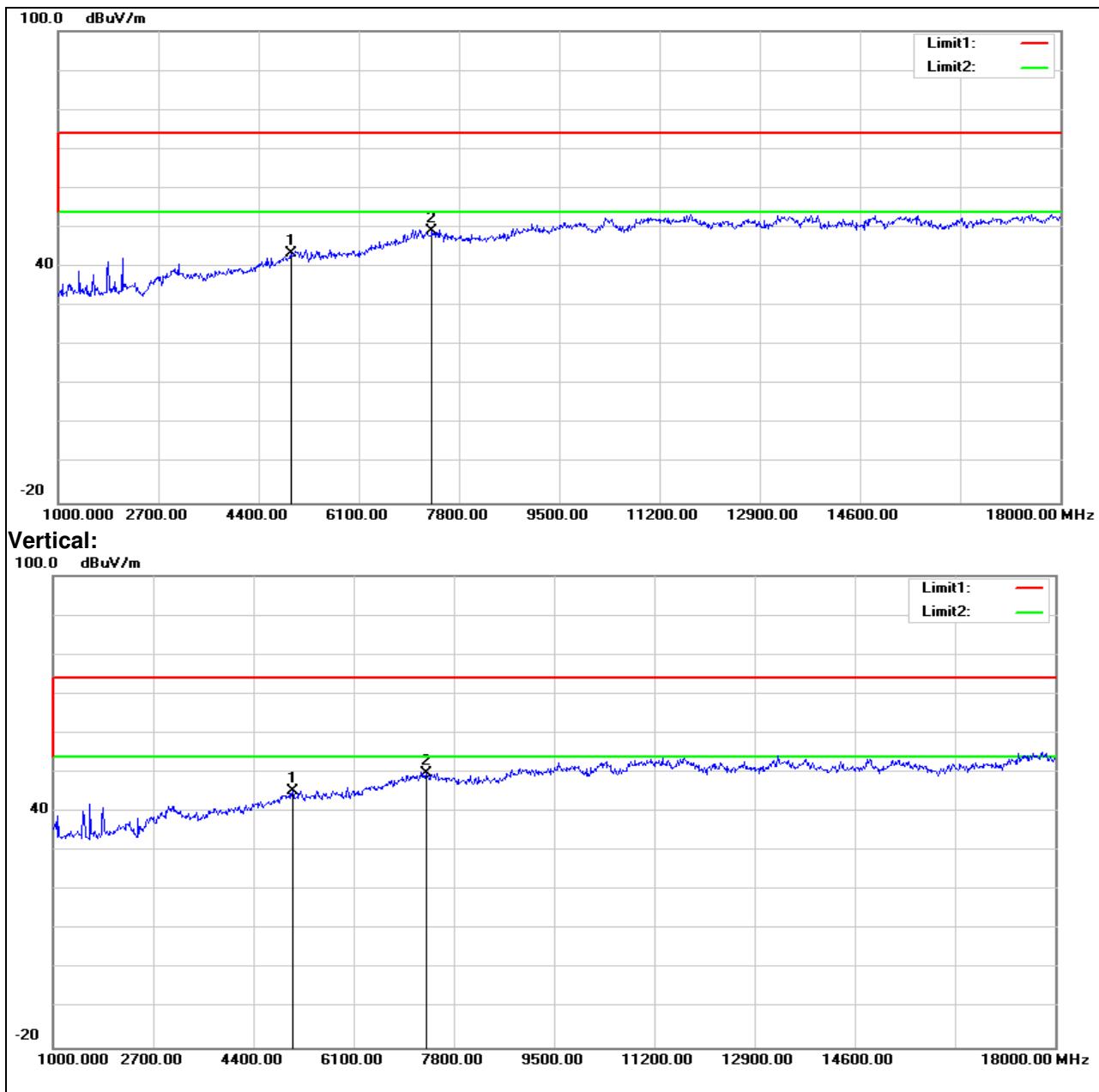
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5046.000	43.28	0.48	43.76	74.00	-30.24	peak	Horizontal
2	7154.000	42.92	5.71	48.63	74.00	-25.37	peak	Horizontal
3	4876.000	46.74	-0.34	46.40	74.00	-27.60	peak	Vertical
4	7205.000	43.74	5.74	49.48	74.00	-24.52	peak	Vertical

Horizontal:


BT For GFSK
Channel: 2480

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4944.000	43.32	0.10	43.42	74.00	-30.58	peak	Horizontal
2	7341.000	43.39	5.82	49.21	74.00	-24.79	peak	Horizontal
3	5063.000	44.86	0.48	45.34	74.00	-28.66	peak	Vertical
4	7324.000	43.82	5.81	49.63	74.00	-24.37	peak	Vertical

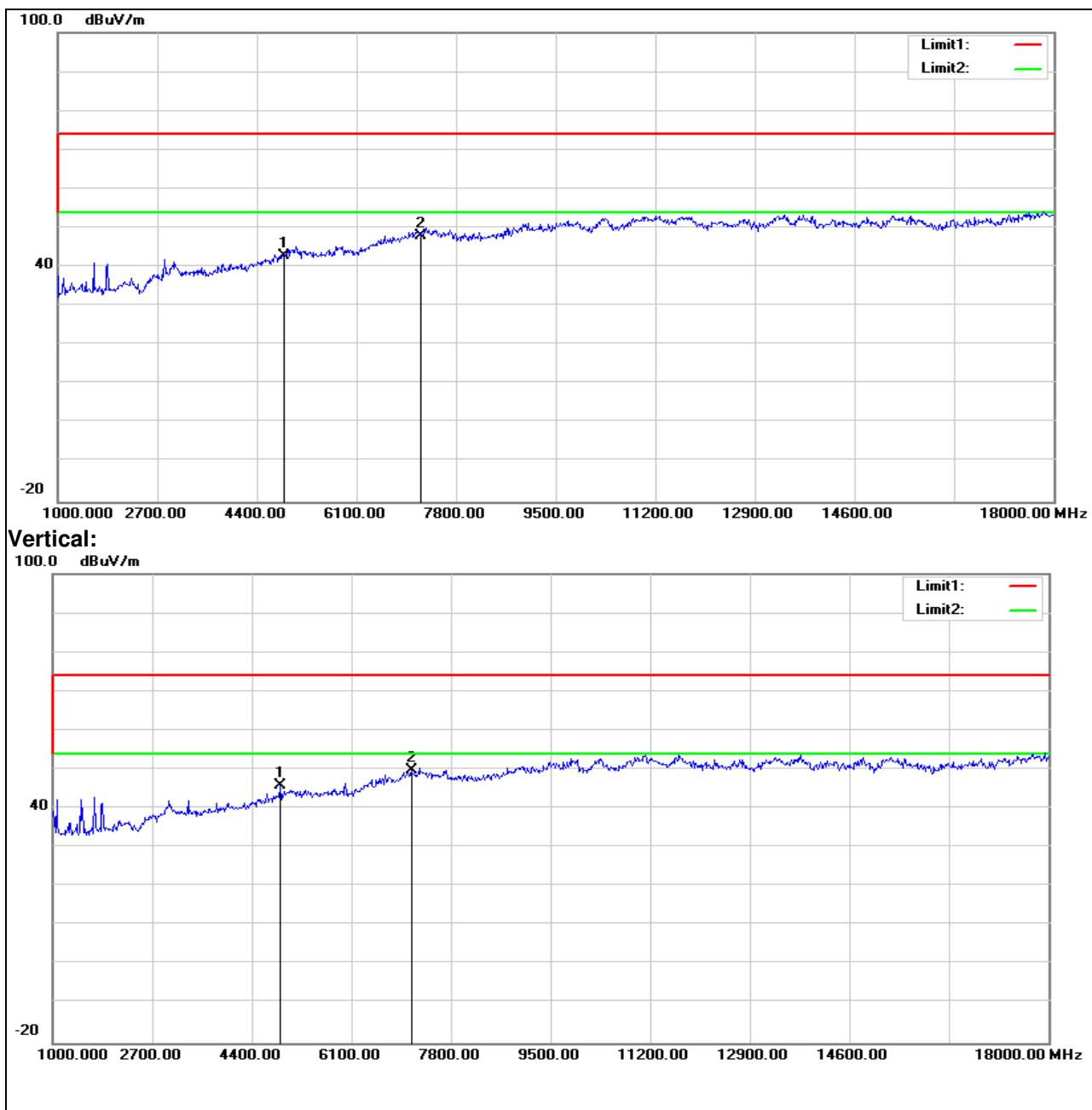
Horizontal:


BT For 8DPSK
Channel: 2402

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4859.000	43.21	-0.45	42.76	74.00	-31.24	peak	Horizontal
2	7205.000	42.29	5.74	48.03	74.00	-25.97	peak	Horizontal
3	4893.000	46.20	-0.23	45.97	74.00	-28.03	peak	Vertical
4	7120.000	44.11	5.68	49.79	74.00	-24.21	peak	Vertical

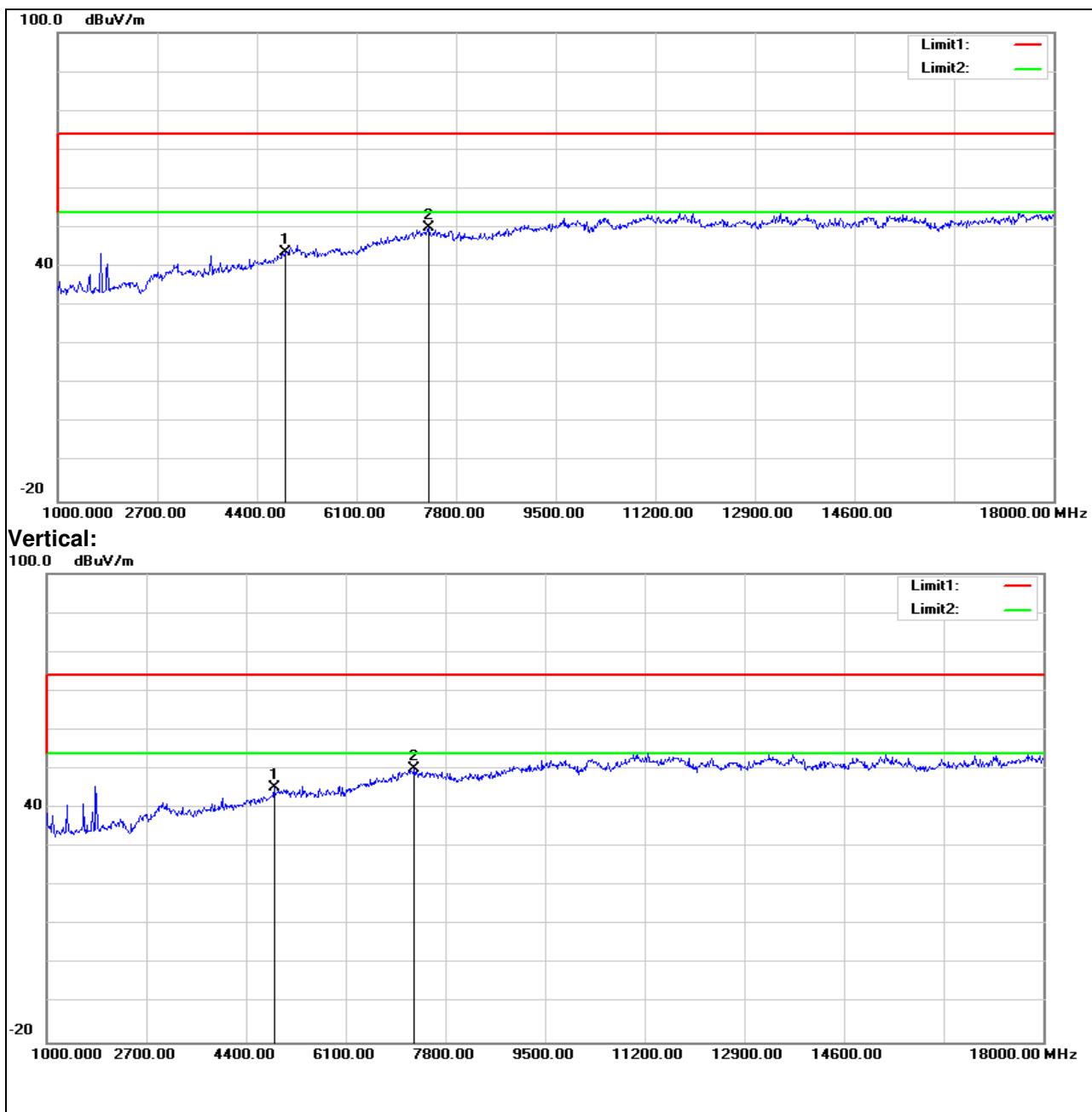
Horizontal:

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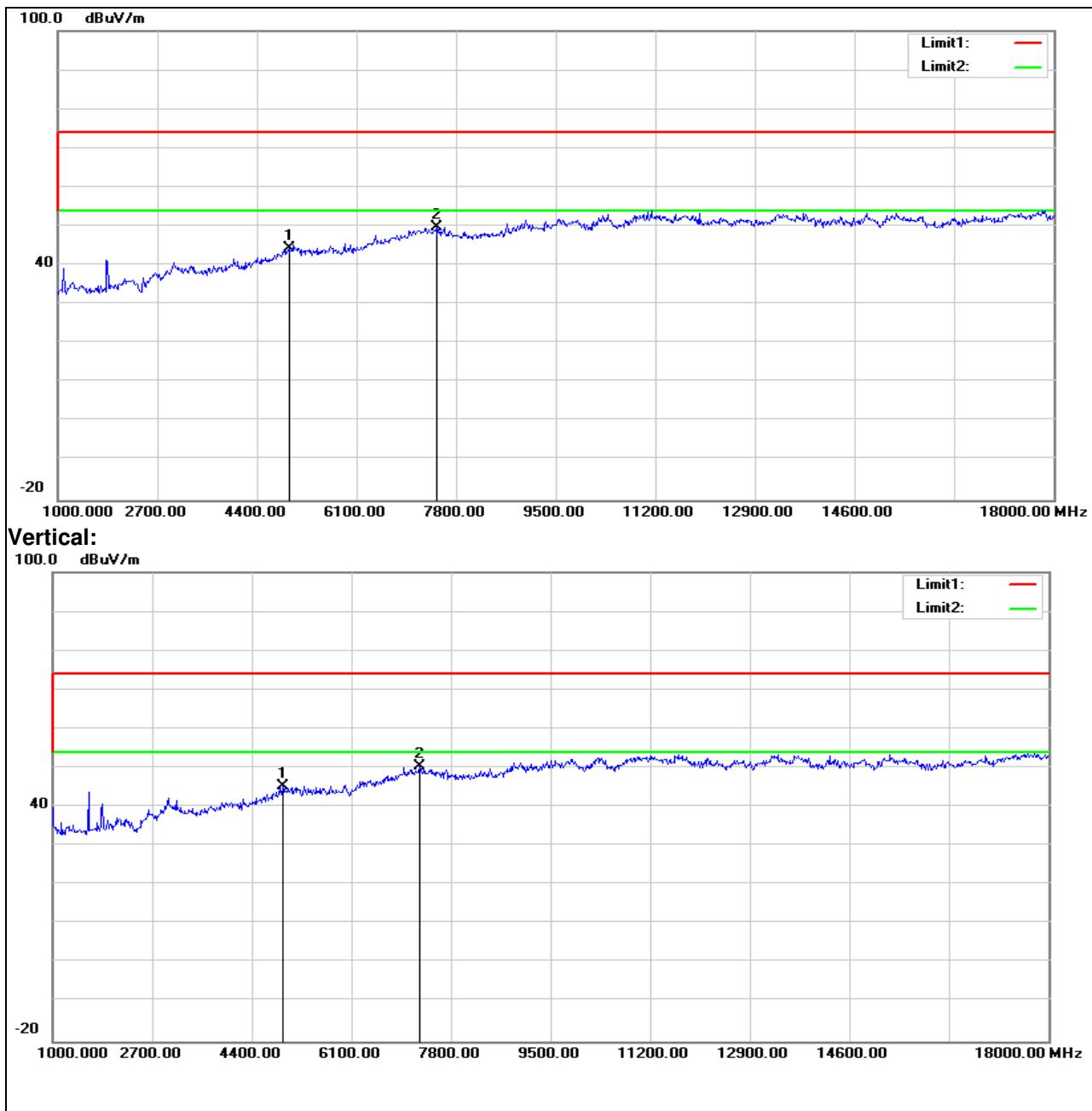
BT For 8DPSK									Channel: 2441	
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization		
1	4876.000	44.18	-0.34	43.84	74.00	-30.16	peak	Horizontal		
2	7341.000	44.09	5.82	49.91	74.00	-24.09	peak	Horizontal		
3	4876.000	45.64	-0.34	45.30	74.00	-28.70	peak	Vertical		
4	7273.000	44.17	5.78	49.95	74.00	-24.05	peak	Vertical		

Horizontal:


BT For 8DPSK
Channel: 2480

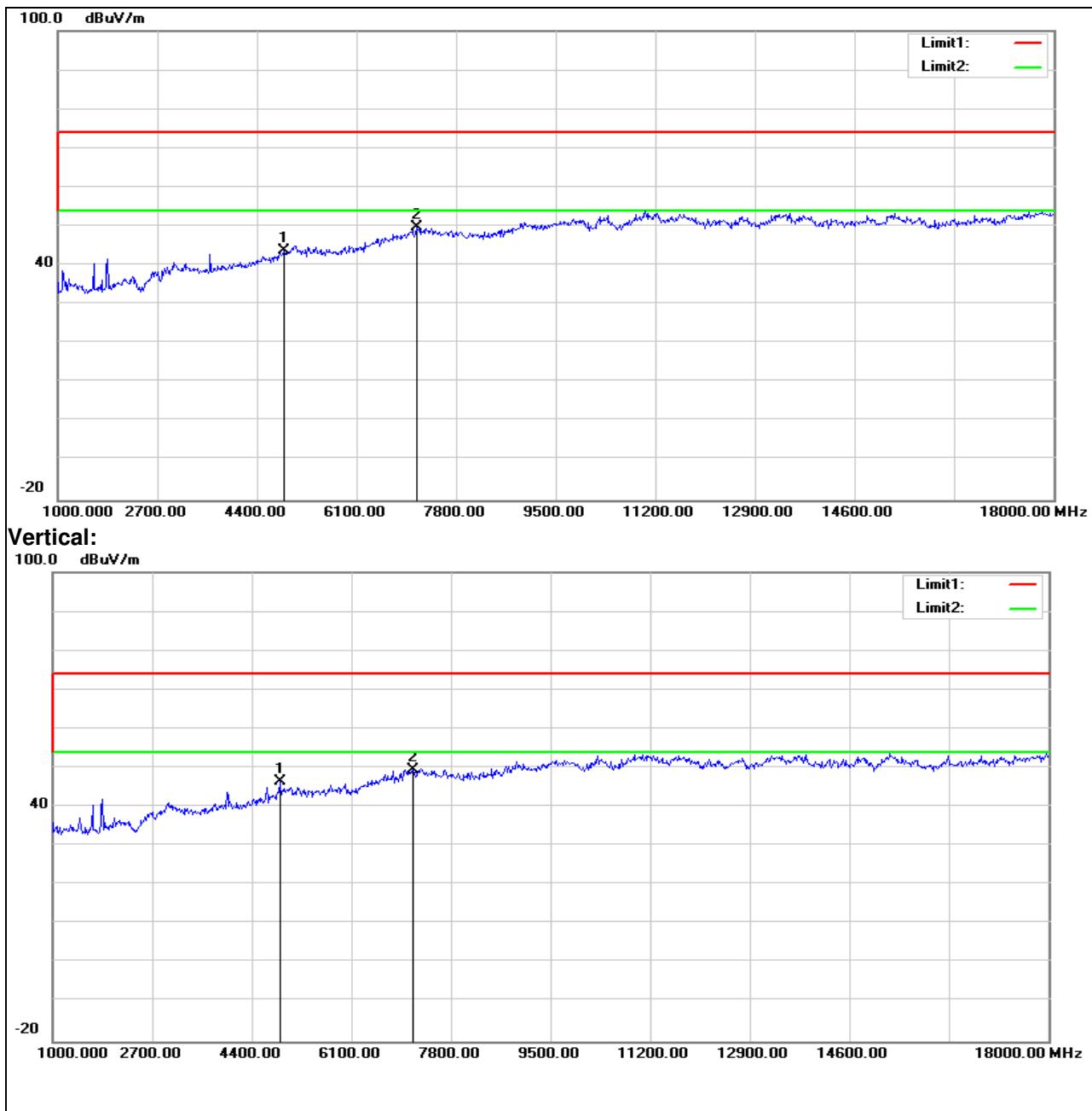
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4961.000	44.20	0.21	44.41	74.00	-29.59	peak	Horizontal
2	7460.000	43.92	5.90	49.82	74.00	-24.18	peak	Horizontal
3	4927.000	45.40	-0.01	45.39	74.00	-28.61	peak	Vertical
4	7256.000	44.69	5.77	50.46	74.00	-23.54	peak	Vertical

Horizontal:



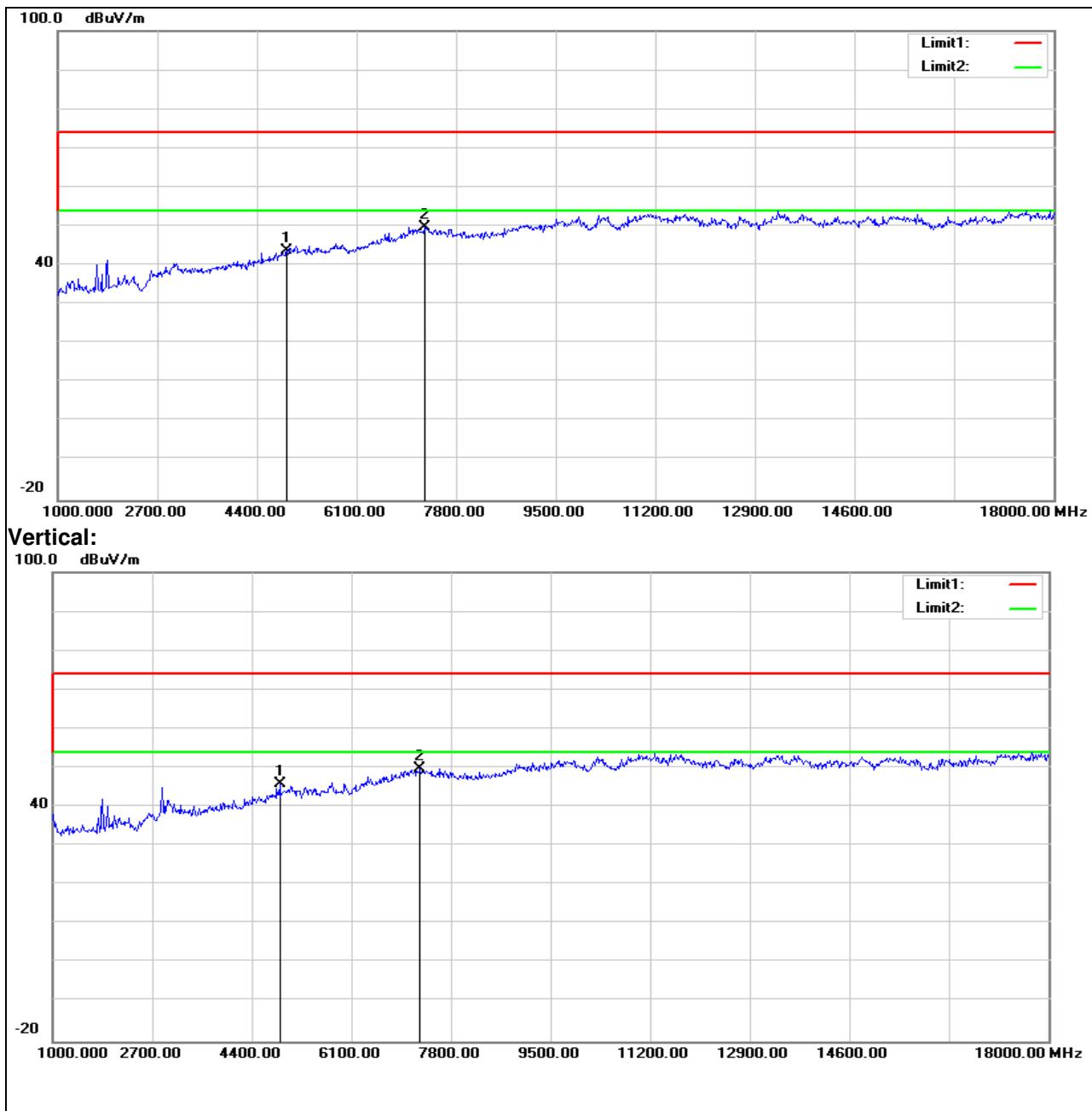
BT For 4.1							Channel: 2402	
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4859.000	44.23	-0.45	43.78	74.00	-30.22	peak	Horizontal
2	7120.000	44.01	5.68	49.69	74.00	-24.31	peak	Horizontal
3	4876.000	46.65	-0.34	46.31	74.00	-27.69	peak	Vertical
4	7154.000	43.87	5.71	49.58	74.00	-24.42	peak	Vertical

Horizontal:


BT For 4.1
Channel: 2440

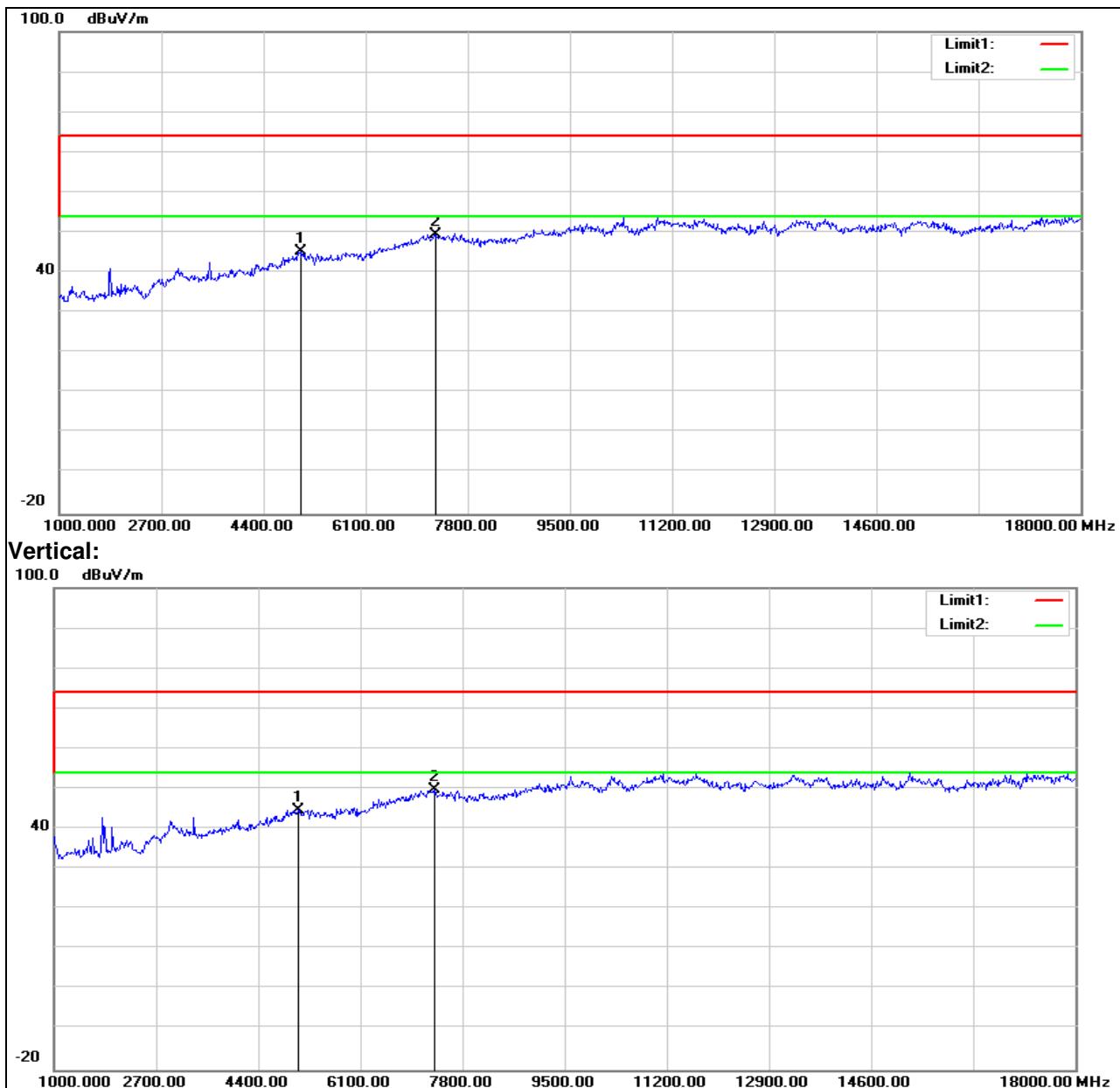
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4910.000	43.91	-0.12	43.79	74.00	-30.21	peak	Horizontal
2	7256.000	43.88	5.77	49.65	74.00	-24.35	peak	Horizontal
3	4876.000	46.33	-0.34	45.99	74.00	-28.01	peak	Vertical
4	7273.000	44.01	5.78	49.79	74.00	-24.21	peak	Vertical

Horizontal:


BT For 4.1
Channel: 2480

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5012.000	44.77	0.47	45.24	74.00	-28.76	peak	Horizontal
2	7273.000	43.75	5.78	49.53	74.00	-24.47	peak	Horizontal
3	5063.000	44.22	0.48	44.70	74.00	-29.30	peak	Vertical
4	7341.000	43.78	5.82	49.60	74.00	-24.40	peak	Vertical

Horizontal:



Remark: 1) Emission = Receiver Reading + Factor

2) Factor = Antenna Factor + Cable Loss - Pre-amplifier Factor.

3) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

7.3.2 Radiated Band edge

Test Mode: 802.11b

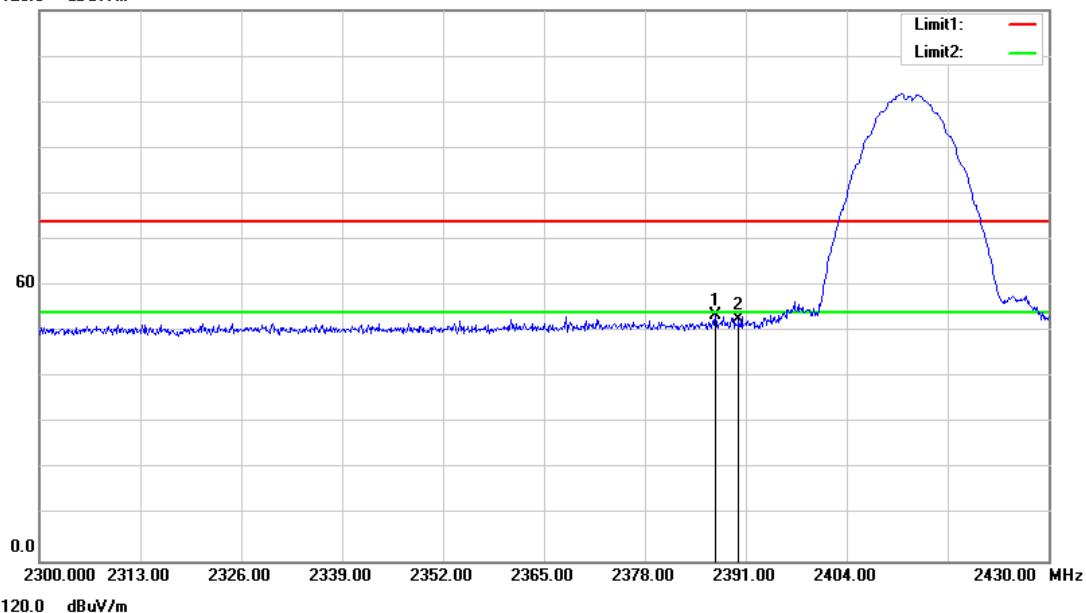
Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2387.100	62.00	-8.40	53.60	74.00	-20.40	peak	Horizontal
2	2390.000	61.05	-8.38	52.67	74.00	-21.33	peak	Horizontal
1	2387.750	61.83	-8.39	53.44	74.00	-20.56	peak	Vertical

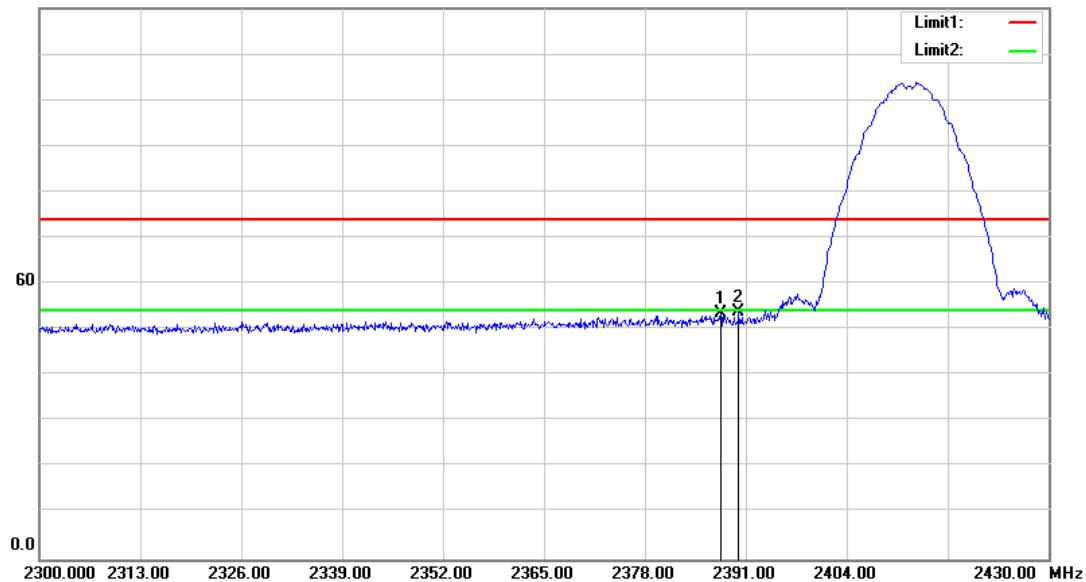
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2	2390.000	62.08	-8.38	53.70	74.00	-20.30	peak	Vertical
120.0 dBuV/m								

Horizontal

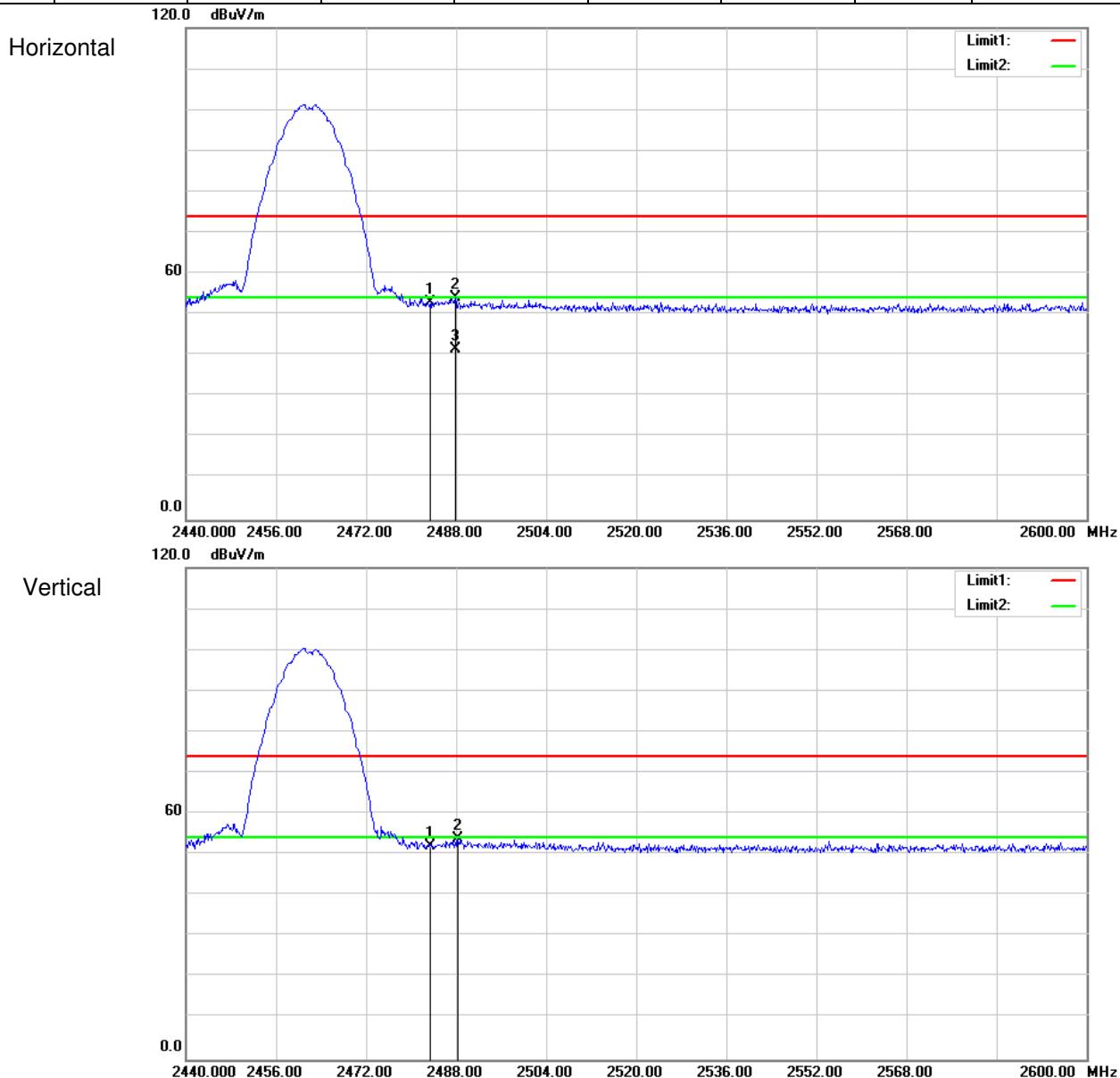


Vertical



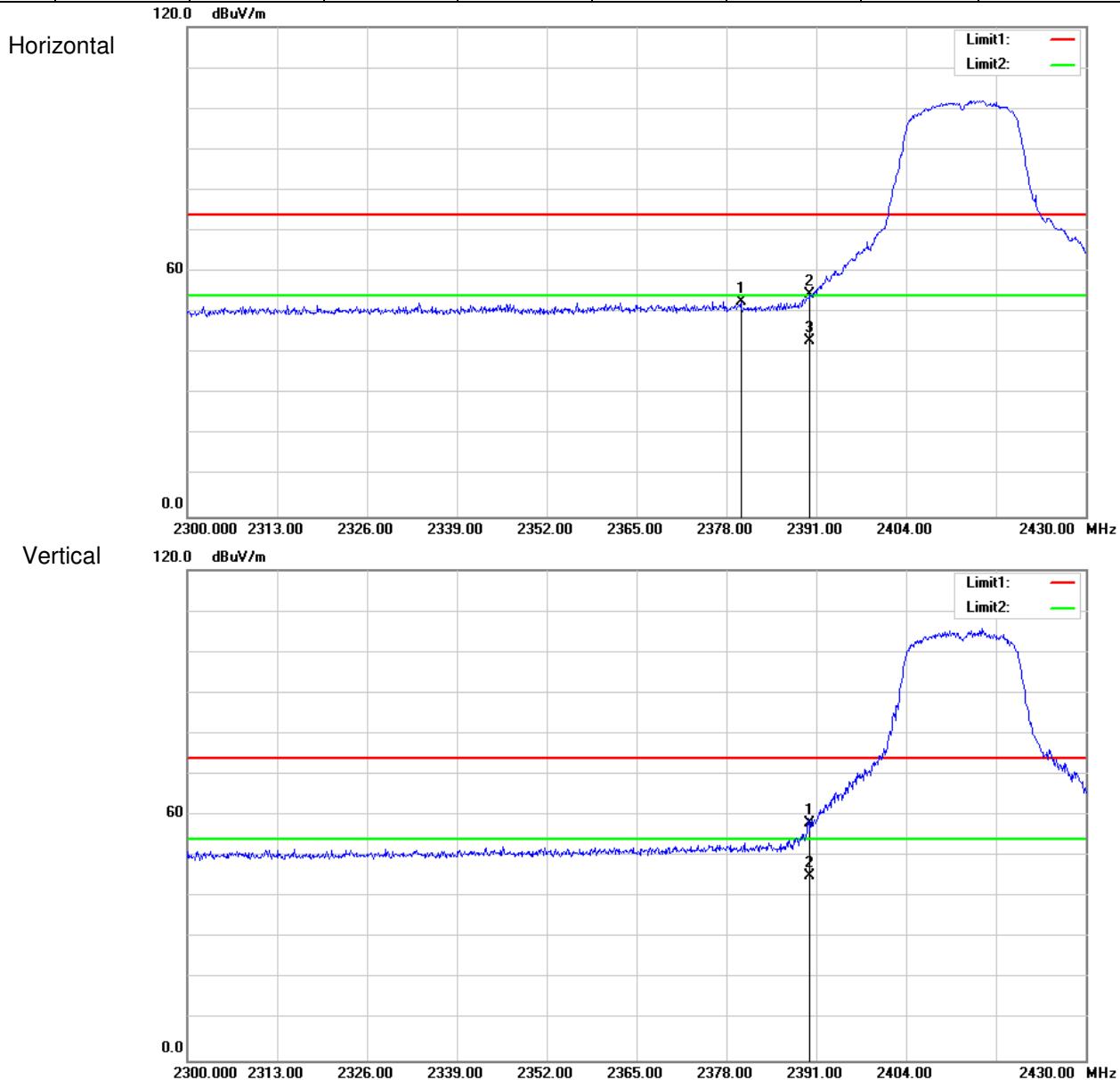
Test Mode: 802.11b
Channel: 2462

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	61.03	-8.04	52.99	74.00	-21.01	peak	Horizontal
2	2487.840	62.28	-8.02	54.26	74.00	-19.74	peak	Horizontal
3	2487.840	49.44	-8.02	41.42	54.00	-12.58	AVG	Horizontal
1	2483.500	60.17	-8.04	52.13	74.00	-21.87	peak	Vertical
2	2488.320	61.91	-8.02	53.89	74.00	-20.11	peak	Vertical


Test Mode: 802.11g
Channel: 2412

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MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2380.080	61.21	-8.42	52.79	74.00	-21.21	peak	Horizontal
2	2390.000	62.73	-8.38	54.35	74.00	-19.65	peak	Horizontal
3	2390.000	51.29	-8.38	42.91	54.00	-11.09	AVG	Horizontal
1	2390.000	66.50	-8.38	58.12	74.00	-15.88	peak	Vertical
2	2390.000	53.43	-8.38	45.05	54.00	-8.95	AVG	Vertical


Test Mode: 802.11g
Channel: 2462

MK.	Frequency	Reading	Corrected	Result	Limit	Over Limit	Detector	Polarization
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	(MHz)	(dBuV/m)	factor(dB)	(dBuV/m)	(dBuV/m)	(dB)		
1	2483.500	65.58	-8.04	57.54	74.00	-16.46	peak	Horizontal
2	2483.500	52.20	-8.04	44.16	54.00	-9.84	AVG	Horizontal
1	2483.500	63.98	-8.04	55.94	74.00	-18.06	peak	Vertical
2	2483.500	52.21	-8.04	44.17	54.00	-9.83	AVG	Vertical

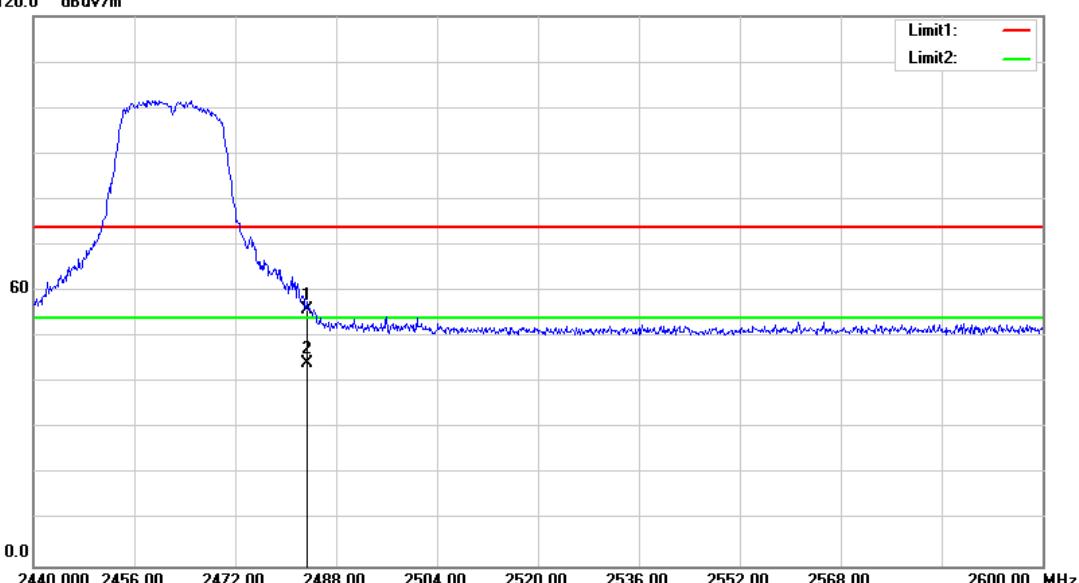
120.0 dBuV/m

Horizontal



Vertical

120.0 dBuV/m

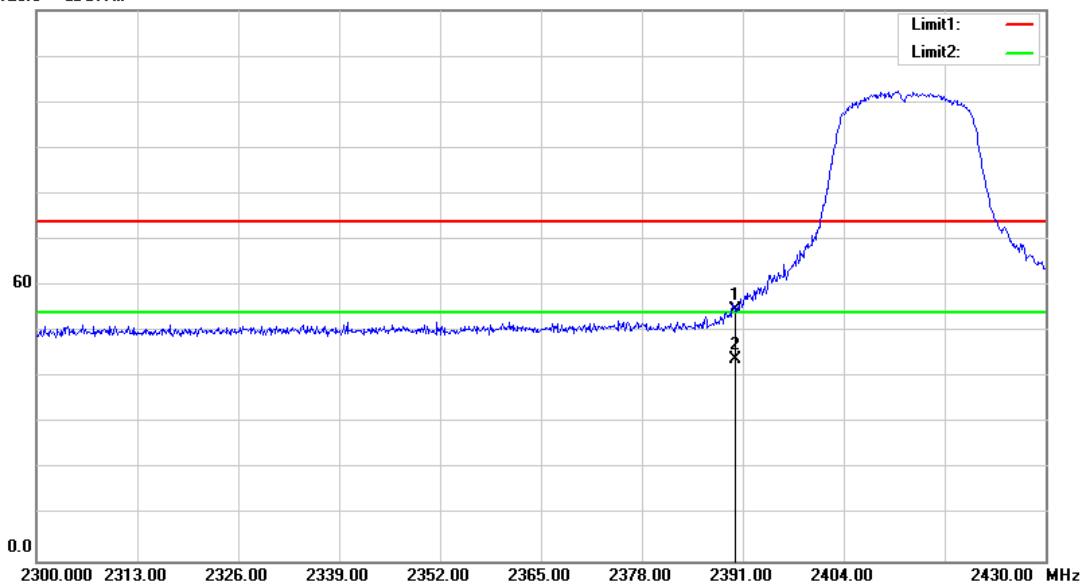


Test Mode: 802.11 n(HT20)
Channel: 2412

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2390.000	63.28	-8.38	54.90	74.00	-19.10	peak	Horizontal
2	2390.000	52.22	-8.38	43.84	54.00	-10.16	AVG	Horizontal
1	2390.000	67.28	-8.38	58.90	74.00	-15.10	peak	Vertical
2	2390.000	54.41	-8.38	46.03	54.00	-7.97	AVG	Vertical

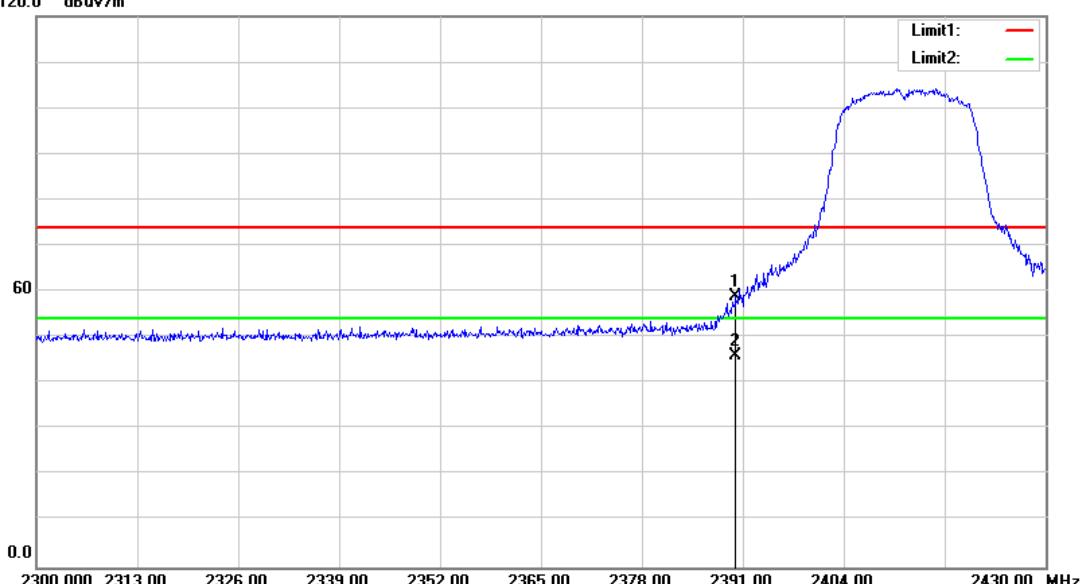
120.0 dBuV/m

Horizontal



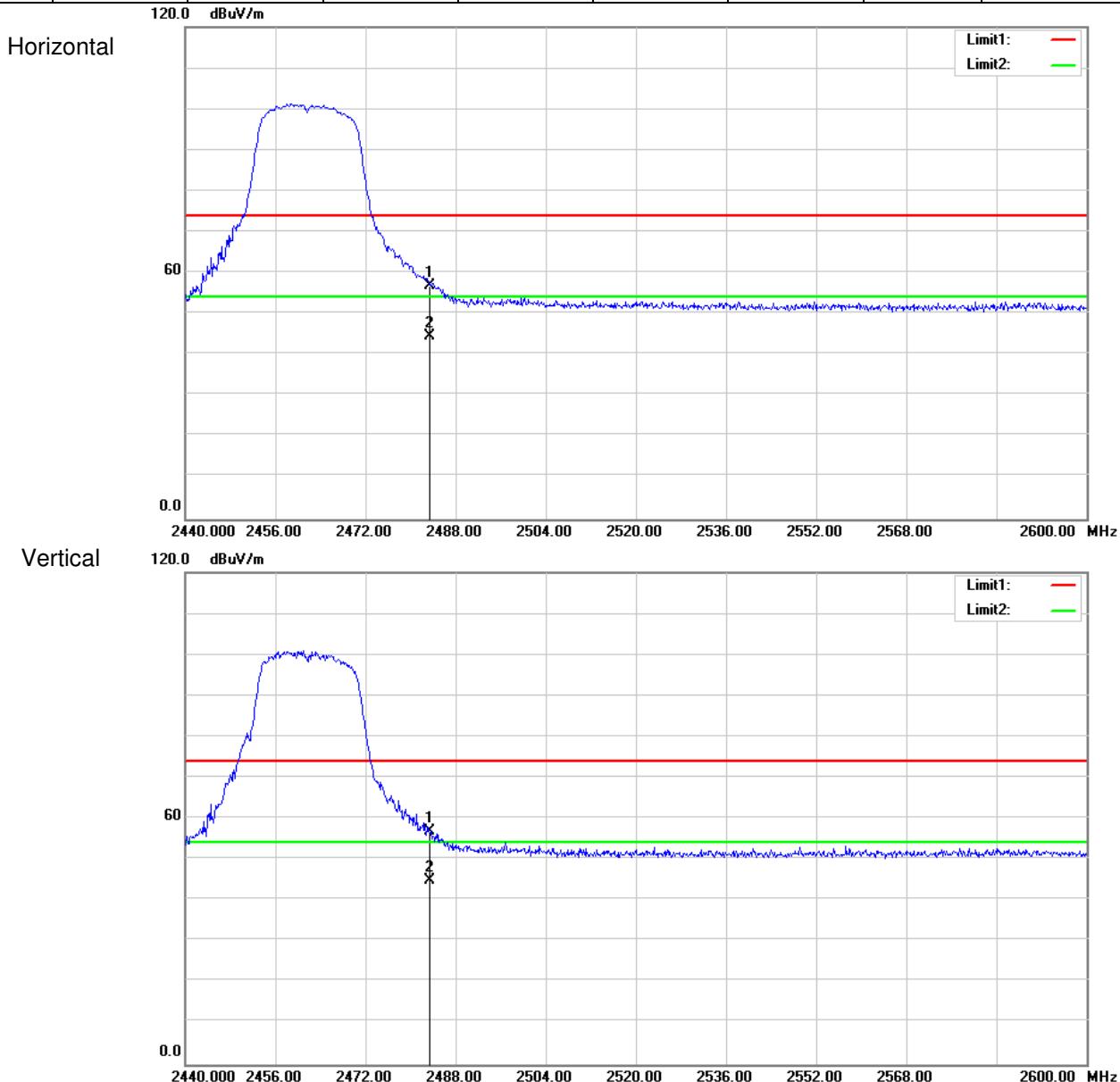
Vertical

120.0 dBuV/m


Test Mode: 802.11 n(HT20)
Channel: 2462

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MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	64.98	-8.04	56.94	74.00	-17.06	peak	Horizontal
2	2483.500	52.55	-8.04	44.51	54.00	-9.49	AVG	Horizontal
1	2483.500	64.99	-8.04	56.95	74.00	-17.05	peak	Vertical
2	2483.500	52.92	-8.04	44.88	54.00	-9.12	AVG	Vertical


Test Mode: 802.11 n(HT40)
Channel: 2422

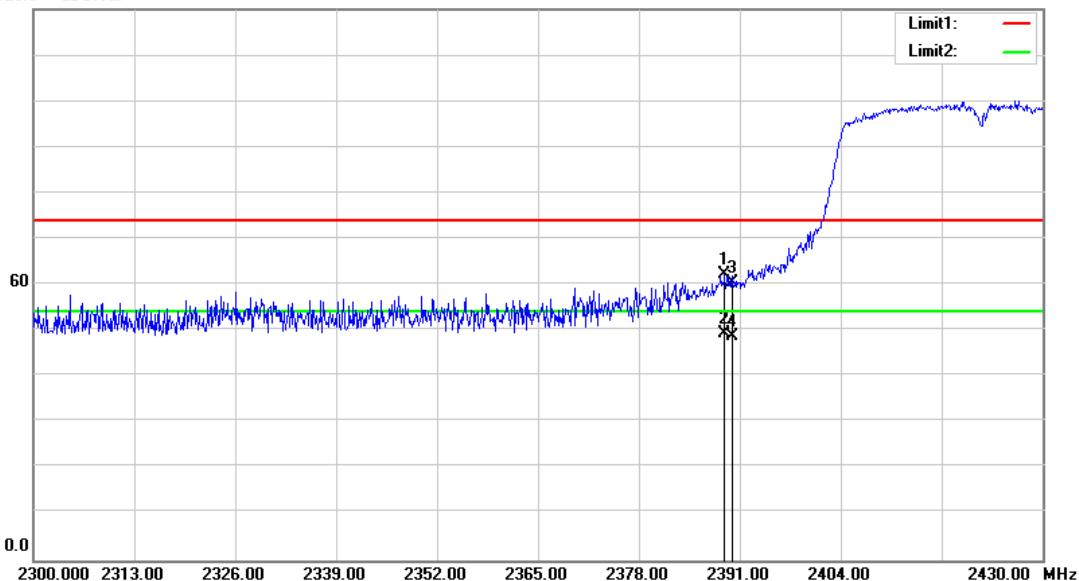
MK.	Frequency	Reading	Corrected	Result	Limit	Over Limit	Detector	Polarization
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	(MHz)	(dBuV/m)	factor(dB)	(dBuV/m)	(dBuV/m)	(dB)		
1	2389.050	70.54	-8.39	62.15	74.00	-11.85	peak	Horizontal
2	2389.050	57.75	-8.39	49.36	54.00	-4.64	AVG	Horizontal
3	2390.000	68.77	-8.38	60.39	74.00	-13.61	peak	Horizontal
4	2390.000	57.23	-8.38	48.85	54.00	-5.15	AVG	Horizontal
1	2388.920	73.23	-8.39	64.84	74.00	-9.16	peak	Vertical
2	2388.920	60.11	-8.39	51.72	54.00	-2.28	AVG	Vertical
3	2390.000	70.48	-8.38	62.10	74.00	-11.90	peak	Vertical
4	2390.000	59.92	-8.38	51.54	54.00	-2.46	AVG	Vertical

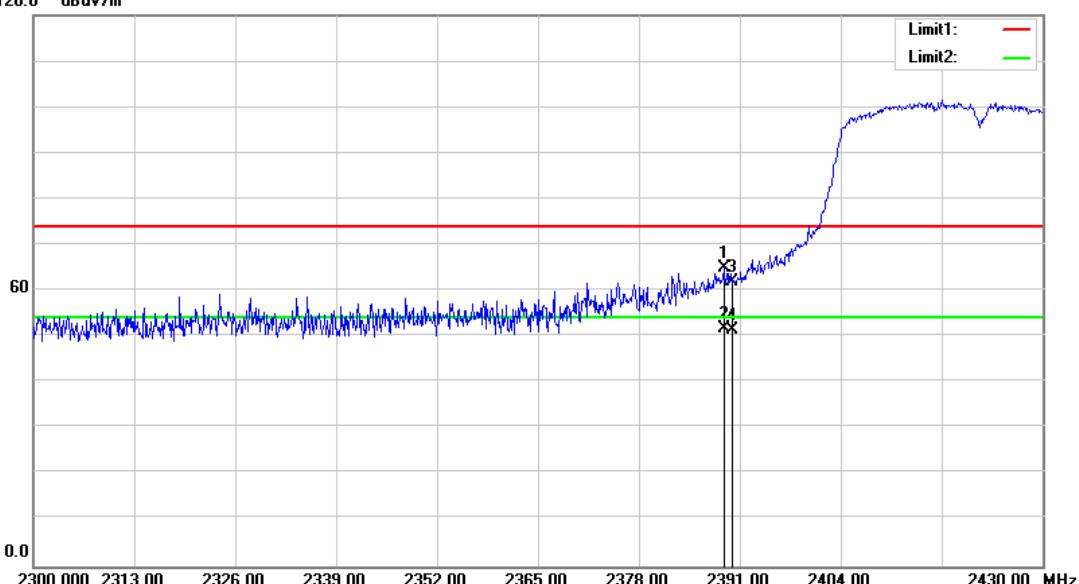
120.0 dBuV/m

Horizontal



Vertical

120.0 dBuV/m


Test Mode: 802.11 n(HT40)
Channel: 2452

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
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1	2483.500	67.95	-8.04	59.91	74.00	-14.09	peak	Horizontal
2	2483.500	54.98	-8.04	46.94	54.00	-7.06	AVG	Horizontal
3	2485.280	70.14	-8.03	62.11	74.00	-11.89	peak	Horizontal
4	2485.280	54.90	-8.03	46.87	54.00	-7.13	AVG	Horizontal
1	2483.500	66.03	-8.04	57.99	74.00	-16.01	peak	Vertical
2	2483.500	54.36	-8.04	46.32	54.00	-7.68	AVG	Vertical
3	2485.760	70.56	-8.03	62.53	74.00	-11.47	peak	Vertical
4	2485.760	55.28	-8.03	47.25	54.00	-6.75	AVG	Vertical

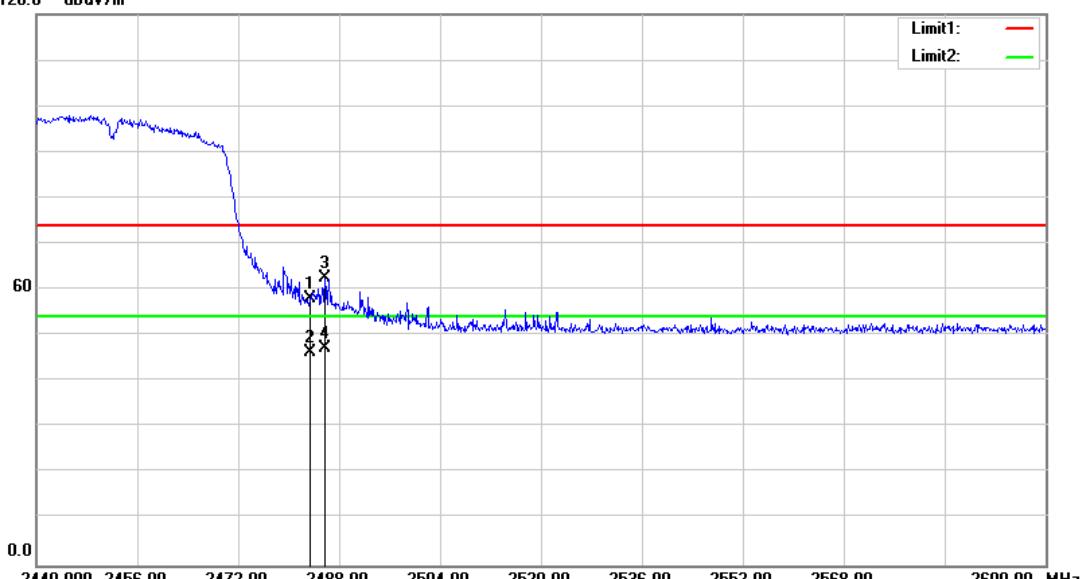
120.0 dBuV/m

Horizontal



Vertical

120.0 dBuV/m


Test Mode: 1Mbps
Channel: 2402

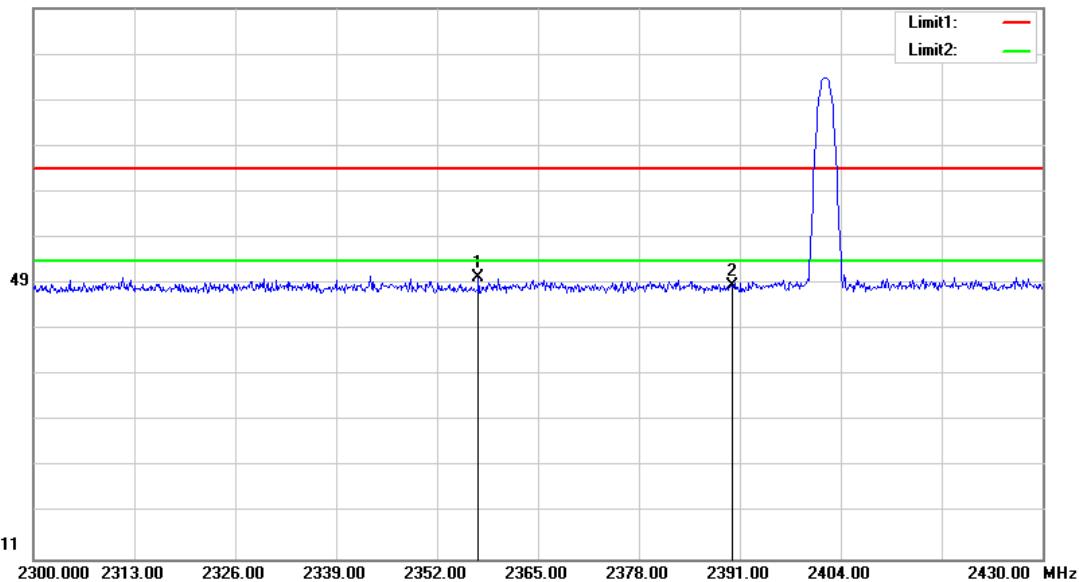
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2357.330	58.81	-8.51	50.30	74.00	-23.70	peak	Horizontal

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2	2390.000	56.94	-8.38	48.56	74.00	-25.44	peak	Horizontal
1	2369.940	58.83	-8.46	50.37	74.00	-23.63	peak	Vertical
2	2390.000	56.92	-8.38	48.54	74.00	-25.46	peak	Vertical

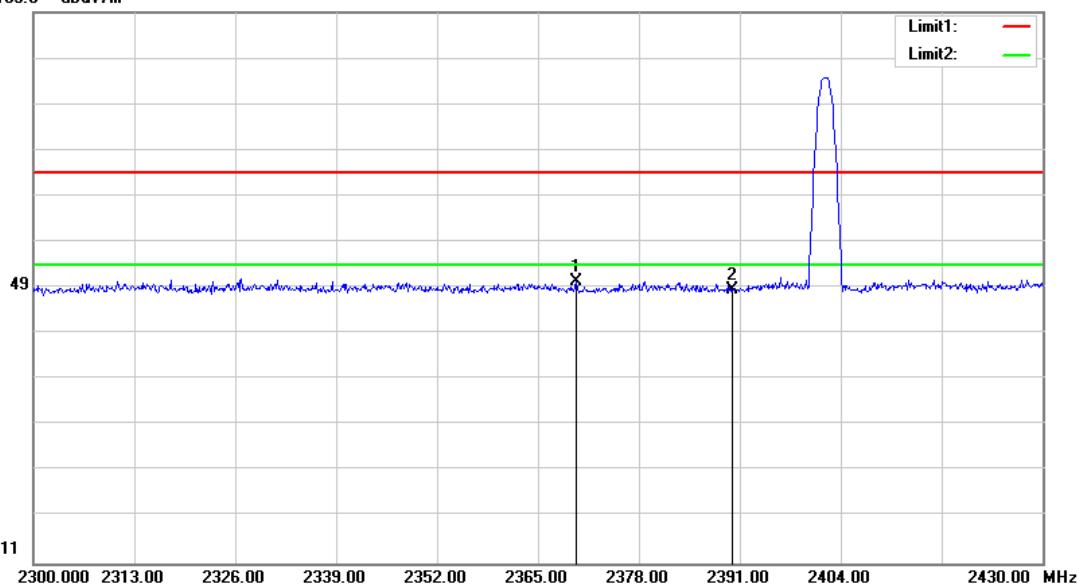
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m


Test Mode: 1Mbps
Channel: 2480

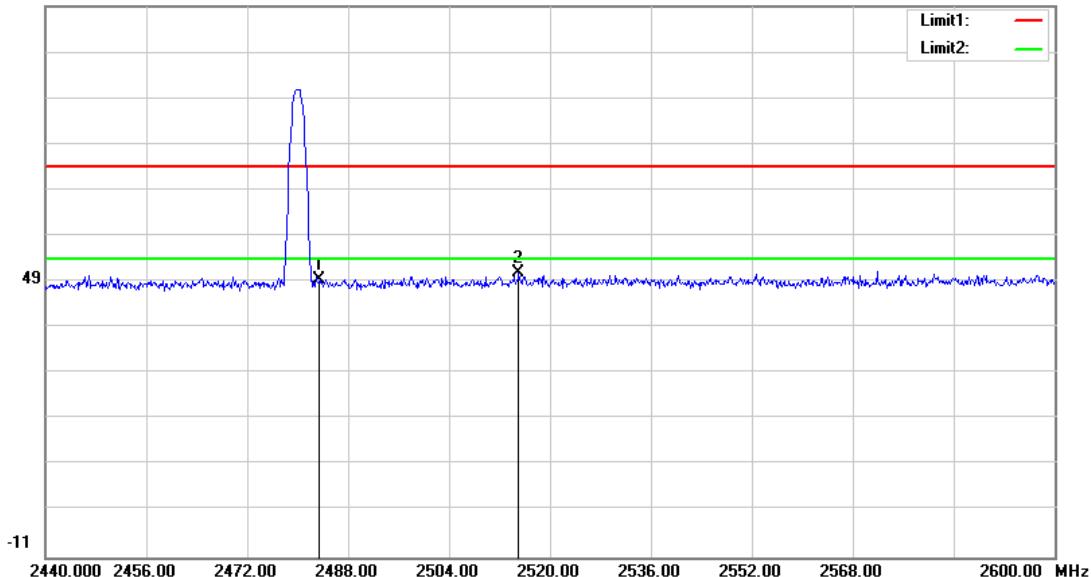
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	57.50	-8.04	49.46	74.00	-24.54	peak	Horizontal
2	2515.040	58.91	-7.91	51.00	74.00	-23.00	peak	Horizontal

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1	2483.500	57.42	-8.04	49.38	74.00	-24.62	peak	Vertical
2	2512.960	58.72	-7.92	50.80	74.00	-23.20	peak	Vertical

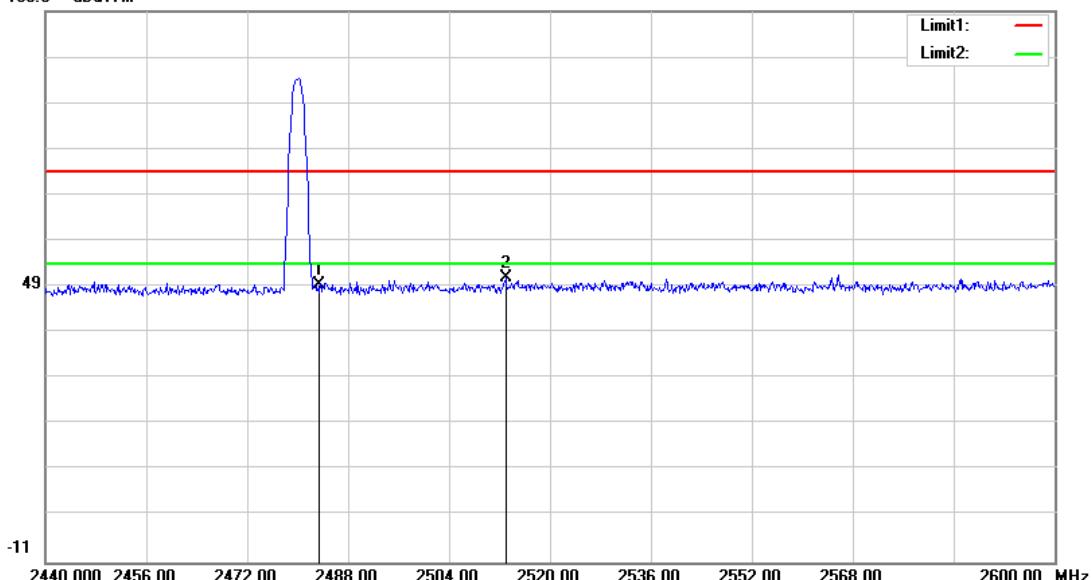
109.0 dBuV/m

Horizontal



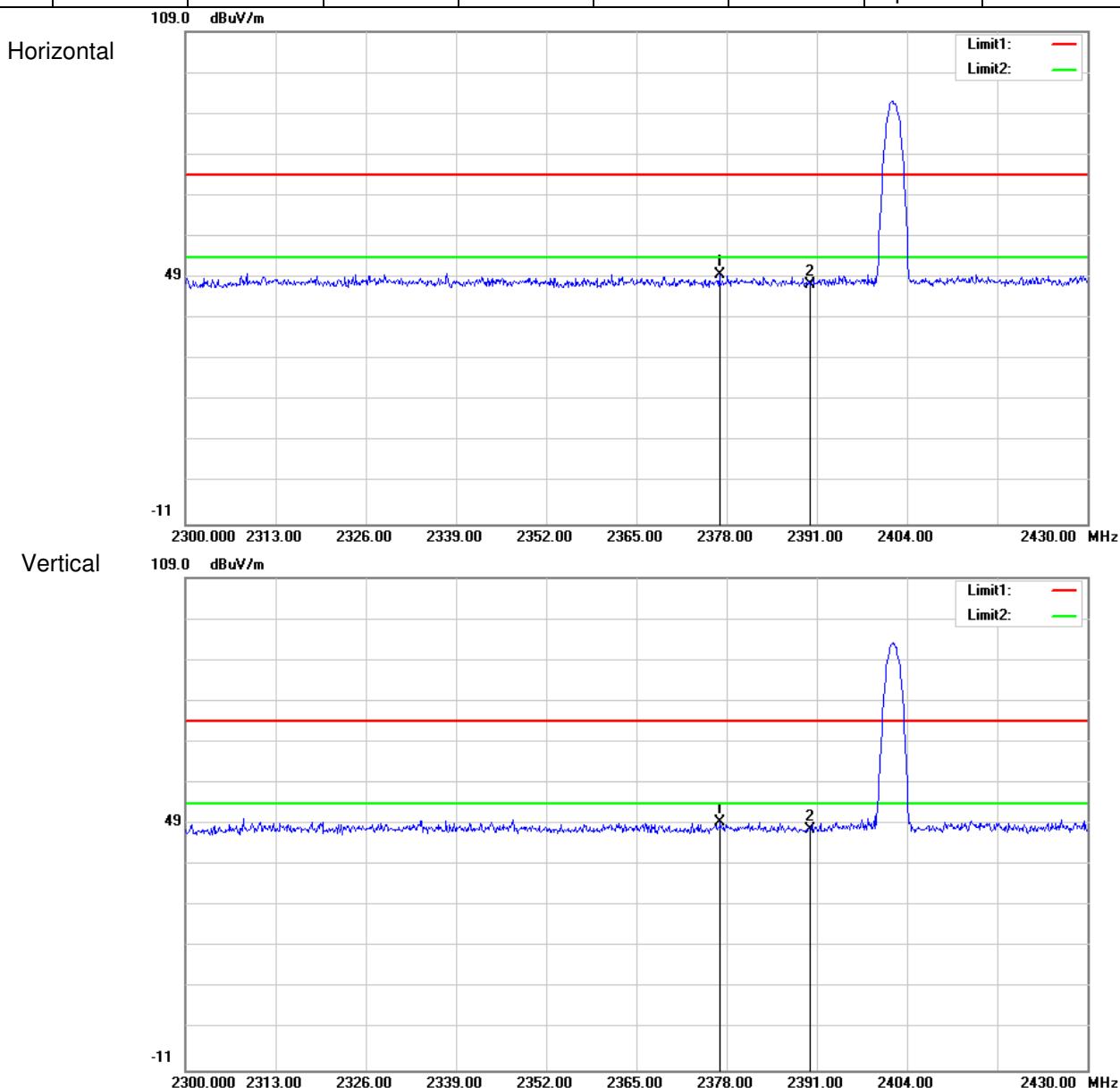
Vertical

109.0 dBuV/m



Test Mode: 3Mbps
Channel: 2402

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2376.960	58.11	-8.43	49.68	74.00	-24.32	peak	Horizontal
2	2390.000	55.58	-8.38	47.20	74.00	-26.80	peak	Horizontal
1	2377.090	57.76	-8.43	49.33	74.00	-24.67	peak	Vertical
2	2390.000	56.05	-8.38	47.67	74.00	-26.33	peak	Vertical

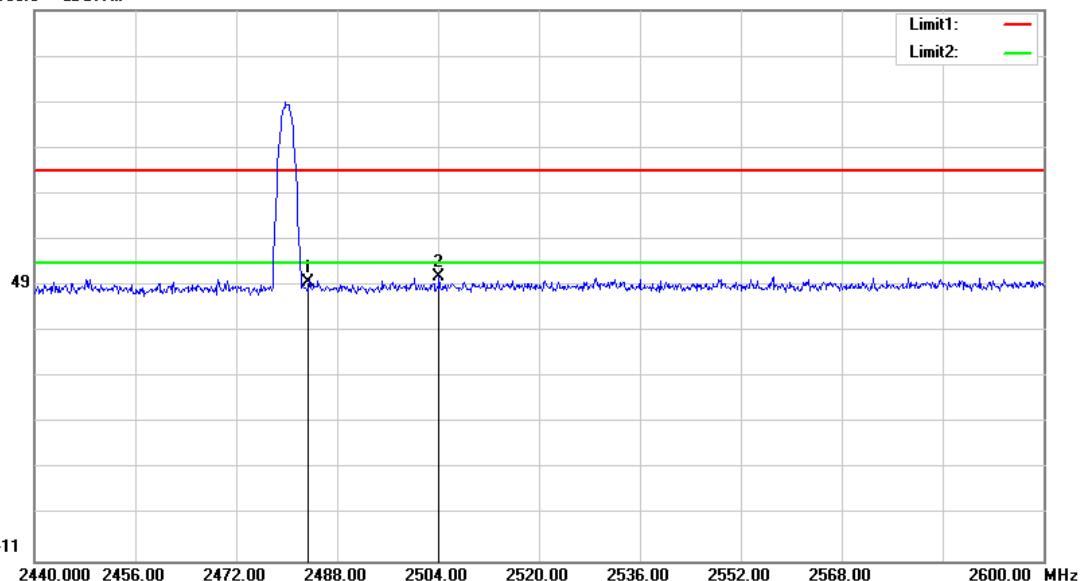


Test Mode: 3Mbps
Channel: 2480

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	57.63	-8.04	49.59	74.00	-24.41	peak	Horizontal
2	2504.160	58.91	-7.96	50.95	74.00	-23.05	peak	Horizontal
1	2483.500	56.17	-8.04	48.13	74.00	-25.87	peak	Vertical
2	2495.360	58.42	-8.00	50.42	74.00	-23.58	peak	Vertical

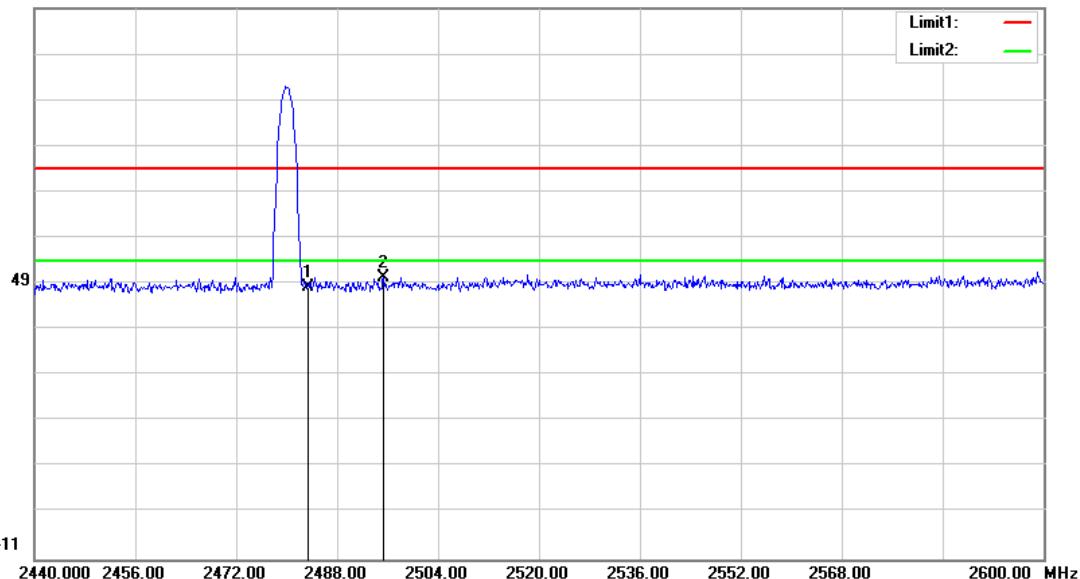
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m

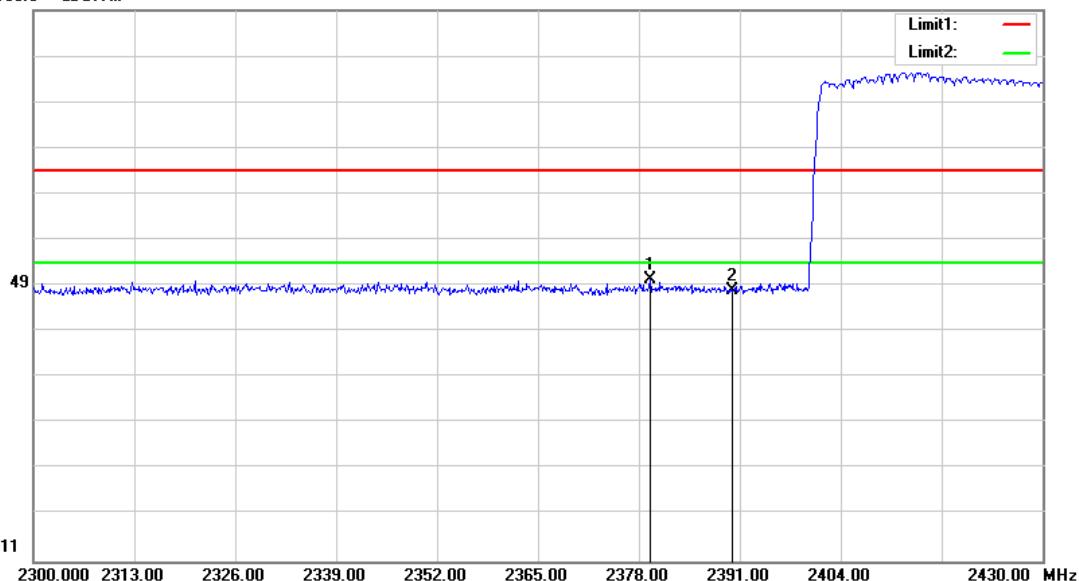


Test Mode: 1Mbps-hopping
Channel: 2402

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2379.430	58.78	-8.42	50.36	74.00	-23.64	peak	Horizontal
2	2390.000	56.22	-8.38	47.84	74.00	-26.16	peak	Horizontal
1	2385.800	58.02	-8.40	49.62	74.00	-24.38	peak	Vertical
2	2390.000	56.20	-8.38	47.82	74.00	-26.18	peak	Vertical

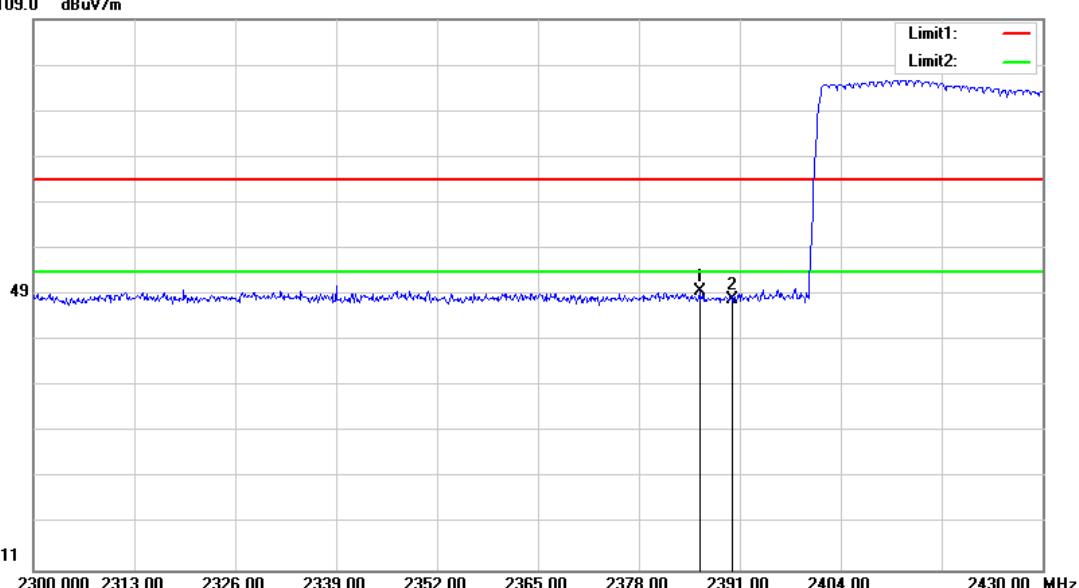
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m

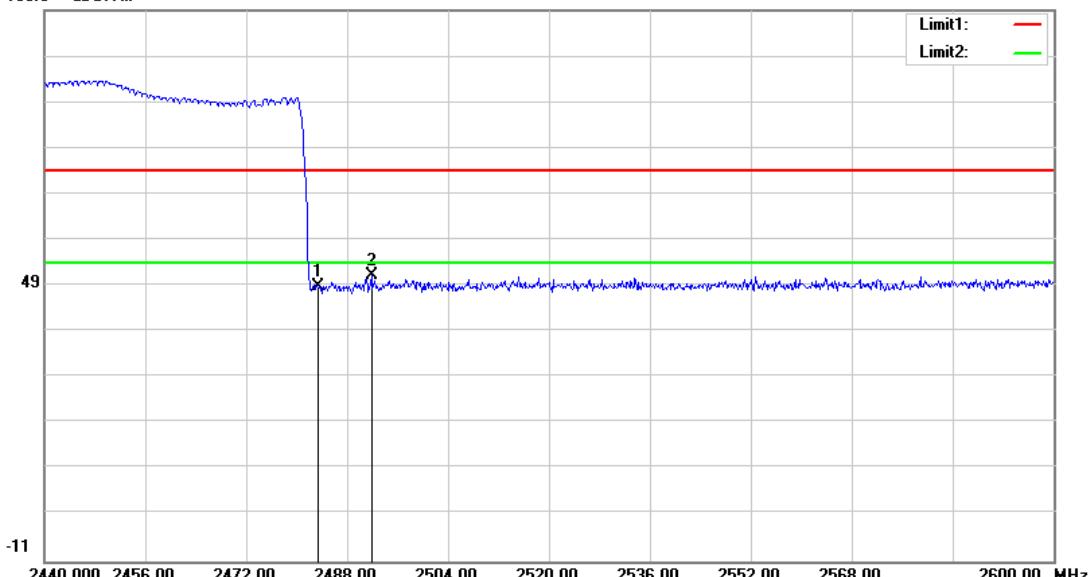


Test Mode: 1Mbps-hopping
Channel: 2480

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	56.83	-8.04	48.79	74.00	-25.21	peak	Horizontal
2	2491.840	59.36	-8.01	51.35	74.00	-22.65	peak	Horizontal
1	2483.500	57.29	-8.04	49.25	74.00	-24.75	peak	Vertical
2	2500.960	58.97	-7.98	50.99	74.00	-23.01	peak	Vertical

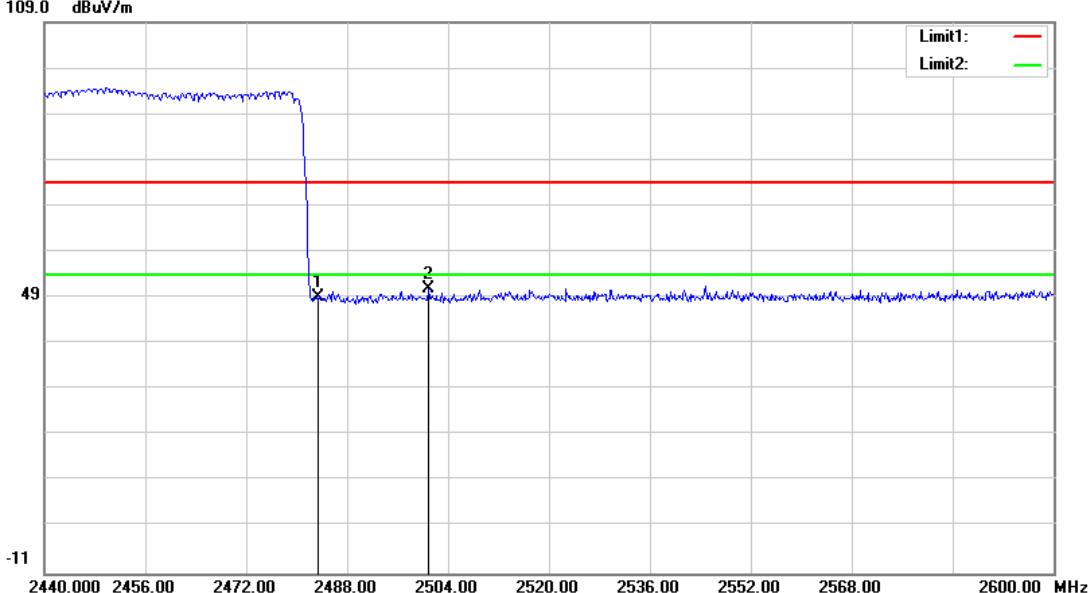
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m

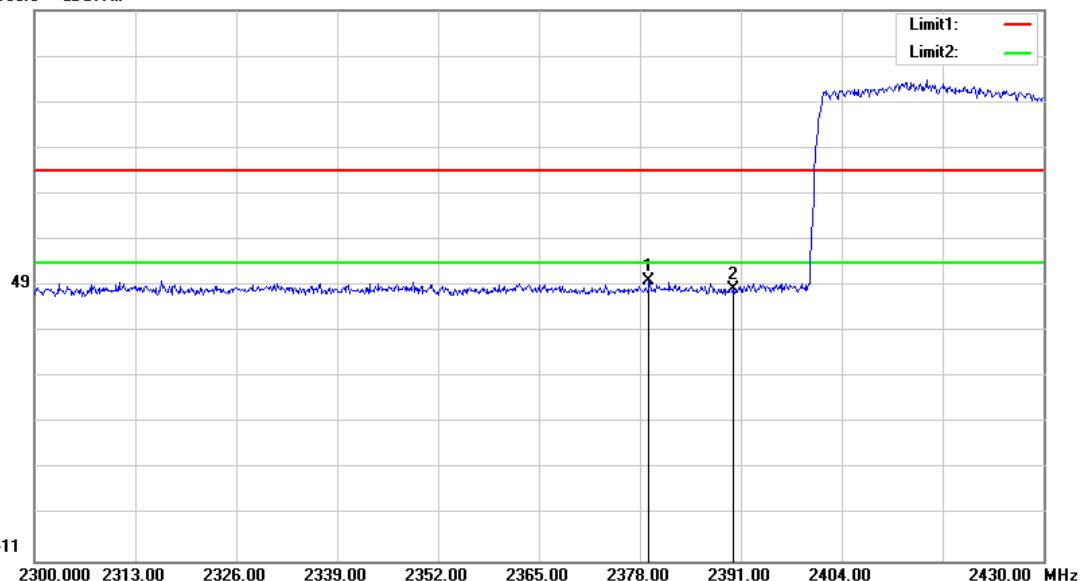


Test Mode: 3Mbps-hopping
Channel: 2402

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2379.170	58.52	-8.42	50.10	74.00	-23.90	peak	Horizontal
2	2390.000	56.51	-8.38	48.13	74.00	-25.87	peak	Horizontal
1	2375.530	57.77	-8.44	49.33	74.00	-24.67	peak	Vertical
2	2390.000	55.65	-8.38	47.27	74.00	-26.73	peak	Vertical

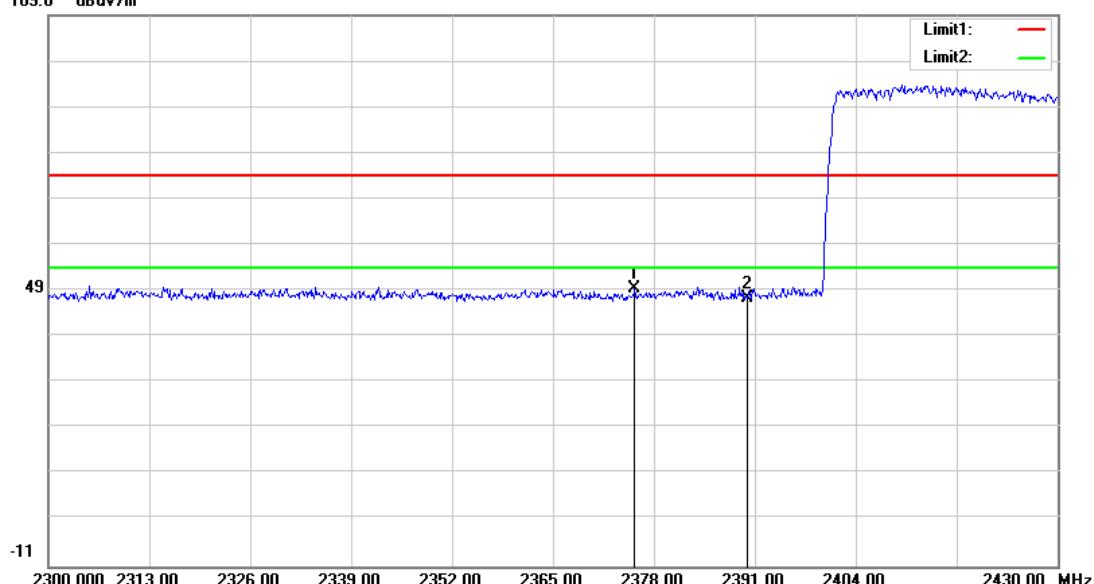
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m

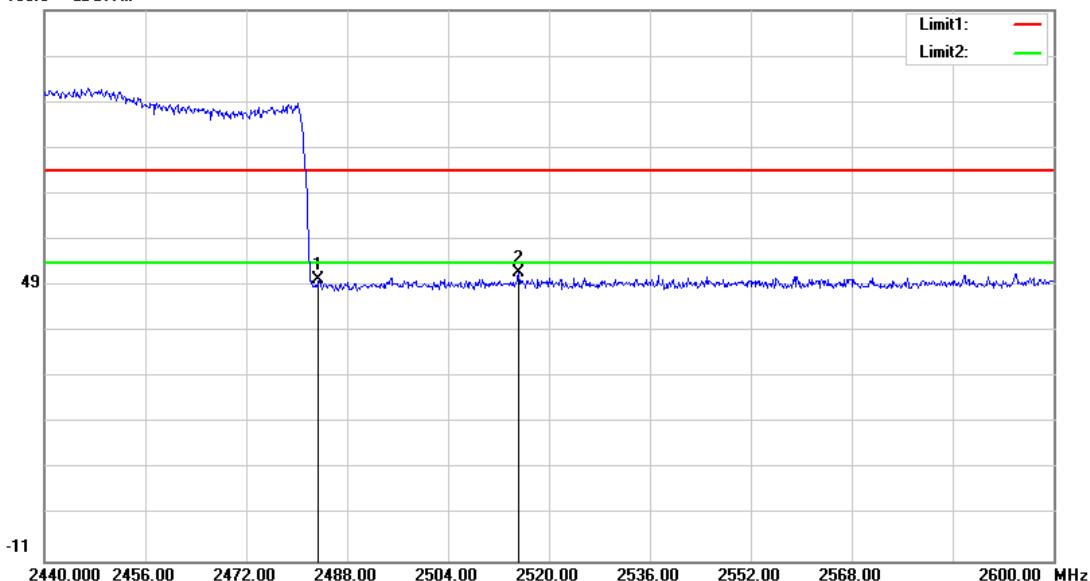


Test Mode: 3Mbps-hopping
Channel: 2480

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	58.27	-8.04	50.23	74.00	-23.77	peak	Horizontal
2	2515.200	59.65	-7.91	51.74	74.00	-22.26	peak	Horizontal
1	2483.500	56.21	-8.04	48.17	74.00	-25.83	peak	Vertical
2	2496.000	59.96	-7.99	51.97	74.00	-22.03	peak	Vertical

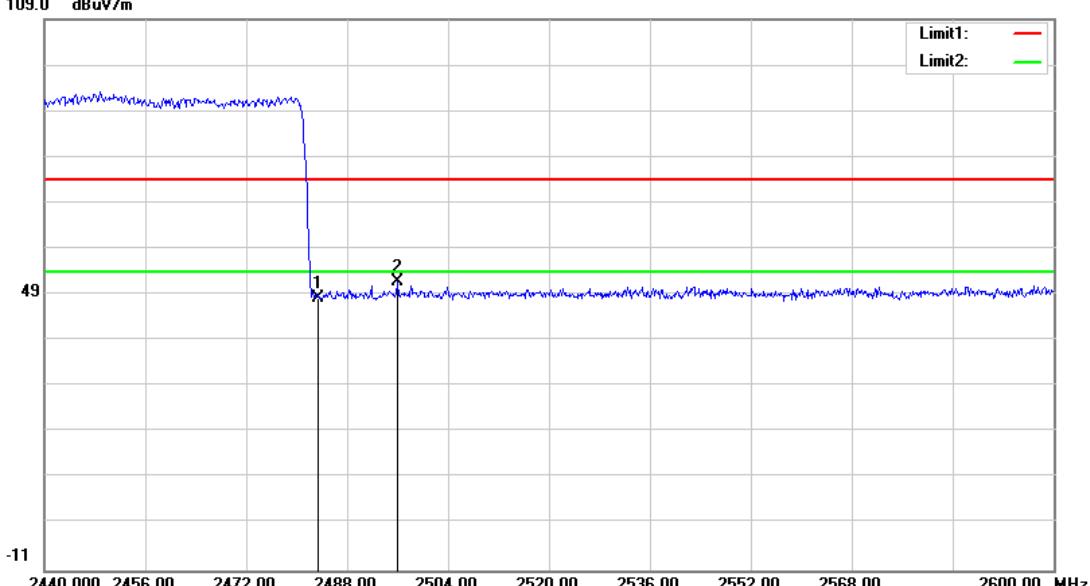
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m

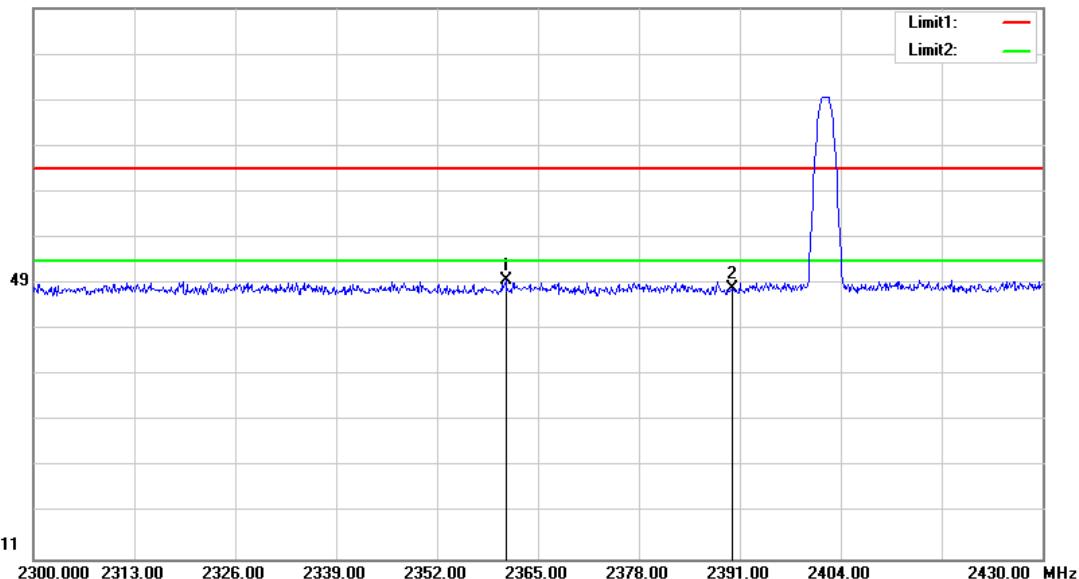


Test Mode: BLE 4.1
Channel: 2402

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2360.840	58.27	-8.49	49.78	74.00	-24.22	peak	Horizontal
2	2390.000	56.38	-8.38	48.00	74.00	-26.00	peak	Horizontal
1	2381.640	58.70	-8.42	50.28	74.00	-23.72	peak	Vertical
2	2390.000	56.68	-8.38	48.30	74.00	-25.70	peak	Vertical

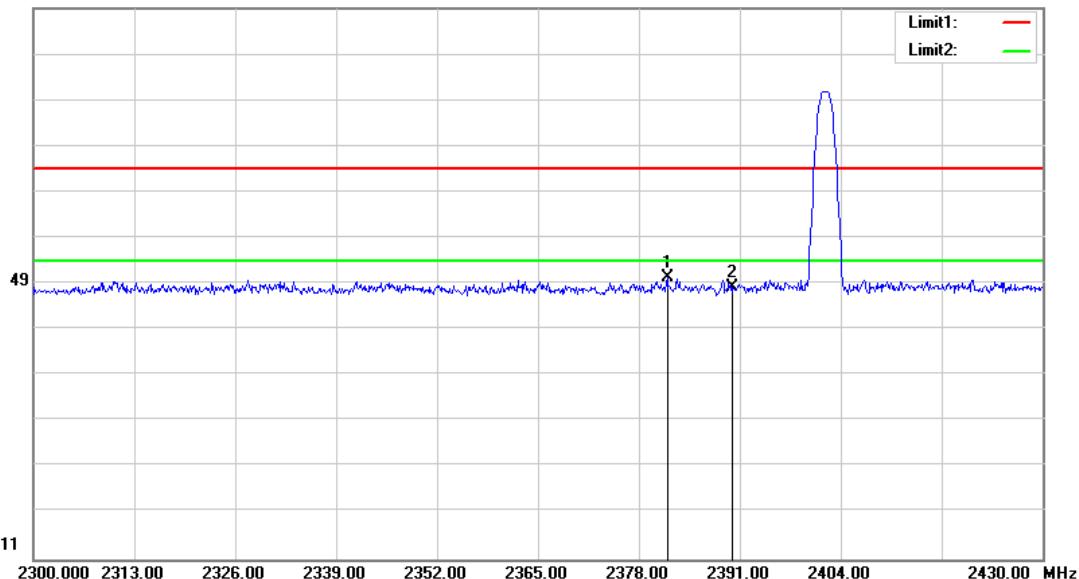
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m

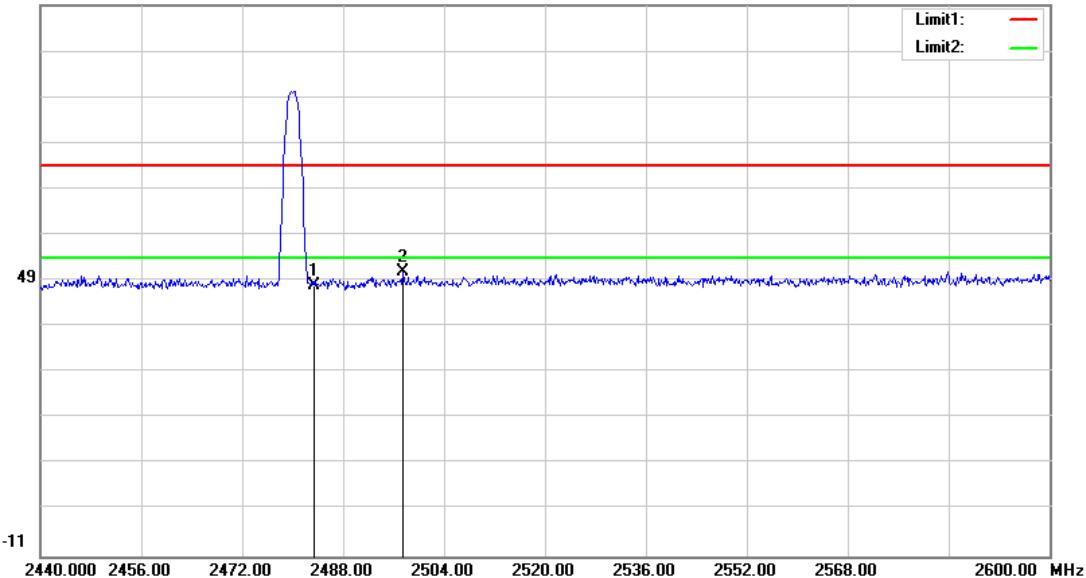


Test Mode: BLE 4.1
Channel: 2480

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.500	56.07	-8.04	48.03	74.00	-25.97	peak	Horizontal
2	2497.440	58.94	-7.99	50.95	74.00	-23.05	peak	Horizontal
1	2483.500	57.20	-8.04	49.16	74.00	-24.84	peak	Vertical
2	2510.240	58.82	-7.93	50.89	74.00	-23.11	peak	Vertical

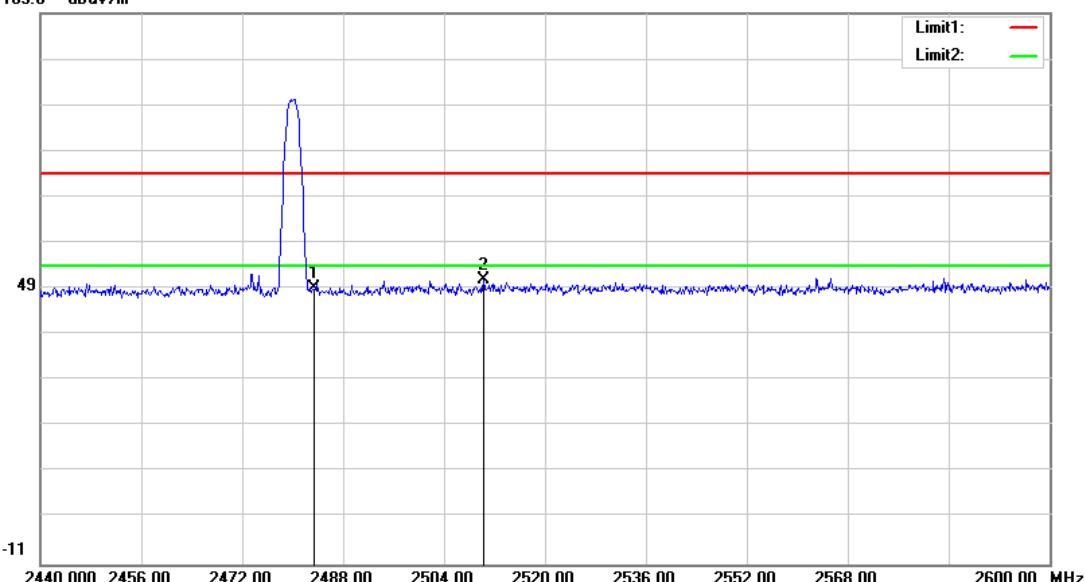
109.0 dBuV/m

Horizontal



Vertical

109.0 dBuV/m



Remark: 1). Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2). If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Except as shown in paragraph of this section, only spurious emissions are permitted in any of the frequency bands listed below:

a. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			



b. RSS-Gen section 7.2.2 Restricted bands of operation

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

--End of the Report--