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Report No.: SZEMO10080533401
Page: 1 of 76

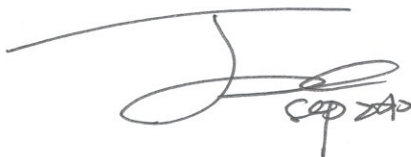
FCC REPORT

Application No: SZEMO100805334RF
Applicant: ATEN Technology, DBA IOGEAR
Manufacturer/Factory: Sunitec Enterprise Co., Ltd
Product Name: Bluetooth speakerphone
Operation Frequency: 2402MHz to 2480MHz
FCC ID: QLE-GBHFK331
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2009
Date of Receipt: 2010-08-18
Date of Test: 2010-08-18 to 2010-09-16
Date of Issue: 2010-09-21

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
Laboratory Manager

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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 Contents

	Page
.....	1
2 CONTENTS	2
3 TEST SUMMARY	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF E.U.T.	4
4.3 E.U.T OPERATION MODE.....	6
4.4 TEST FACILITY	7
4.5 TEST LOCATION	7
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	7
4.7 TEST INSTRUMENTS LIST	8
5 TEST RESULTS AND MEASUREMENT DATA	10
5.1 ANTENNA REQUIREMENT:	10
5.2 CONDUCTED EMISSIONS.....	11
5.3 CONDUCTED PEAK OUTPUT POWER	16
5.4 20dB OCCUPY BANDWIDTH.....	23
5.5 CARRIER FREQUENCIES SEPARATION	29
5.6 HOPPING CHANNEL NUMBER	36
5.7 DWELL TIME	39
5.8 BAND EDGE.....	45
5.9 RF ANTENNA CONDUCTED SPURIOUS EMISSIONS.....	52
5.10 PSEUDORANDOM FREQUENCY HOPPING SEQUENCE.....	62
5.11 RADIATED EMISSION.....	63
5.11.1 Radiated emission below 1GHz.....	65
5.11.2 Transmitter emission above 1GHz.....	66
5.11.3 Band edge (Radiated Emission)	69-76

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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (b)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Remark: Passed: The EUT complies with the essential requirements in the standard.

Failed: The EUT does not comply with the essential requirements in the standard.

4 General Information

4.1 Client Information

Applicant:	ATEN Technology, DBA IOGEAR
Manufacturer/Factory:	Sunitec Enterprise Co., Ltd
Address of Applicant:	9641 Da Vinci Foothill Ranch, CA 92610
Address of Manufacturer:	No.2, Qilin Road 2, RunTang Ind, Dan-Keng Village Fu MinCommunity, Guan-Lan Town, BaoAn District, Shenzhen Guangdong, China
Address of Factory:	No.2, Qilin Road 2, RunTang Ind, Dan-Keng Village Fu MinCommunity, Guan-Lan Town, BaoAn District, Shenzhen Guangdong, China

4.2 General Description of E.U.T.

Product Name:	Bluetooth speakerphone
Item No.:	GBHFK331
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral
Antenna gain:	0dBi
PC supply:	PC USB port supply
Vehicle adapter	Model:CS0105/CU0105 Input DC 12-24V Output: DC 5.0V 500mA
Battery:	3.7V DC (Rechargeable Battery)

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel for testing see below:

Channel	Frequency
lowest channel	2402MHz
middle channel	2441MHz
highest channel	2480MHz

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4.3 E.U.T Operation mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	1010 mBar
Test mode:	
Vehicular charge	Keep the vehicular adapter charging to EUT.
Vehicular charge+Bluetooth	Keep the EUT communicating with other bluetooth device , and vehicular adapter charging to EUT.
PC charge	Keep the PC charging to EUT.
PC charge+Bluetooth	Keep the EUT communicating with other bluetooth device and PC charging to EUT.
Bluetooth	Keep the EUT communicating with other bluetooth device.
Transmitting	Keep the EUT in transmitting mode with modulation.

4.4 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.

4.7 Test Instruments list

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2010-06-17	2011-06-17
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2009-11-05	2010-11-05
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2009-11-05	2010-11-05
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2009-11-10	2010-11-10
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2009-11-10	2010-11-10
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2010-06-02	2011-06-02
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2009-12-18	2010-12-18
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	2010-06-04	2011-06-04
11	Band filter	Amindeon	82346	SEL0094	2010-06-02	2011-06-02

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	2010-06-02	2011-06-02
3	Two-Line V-Network	Rohde & Schwarz	ENV216	SEL0152	2009-10-22	2010-10-22
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2010-06-02	2011-06-02
5	Coaxial Cable	SGS	N/A	SEL0024	2008-06-18	2011-06-18

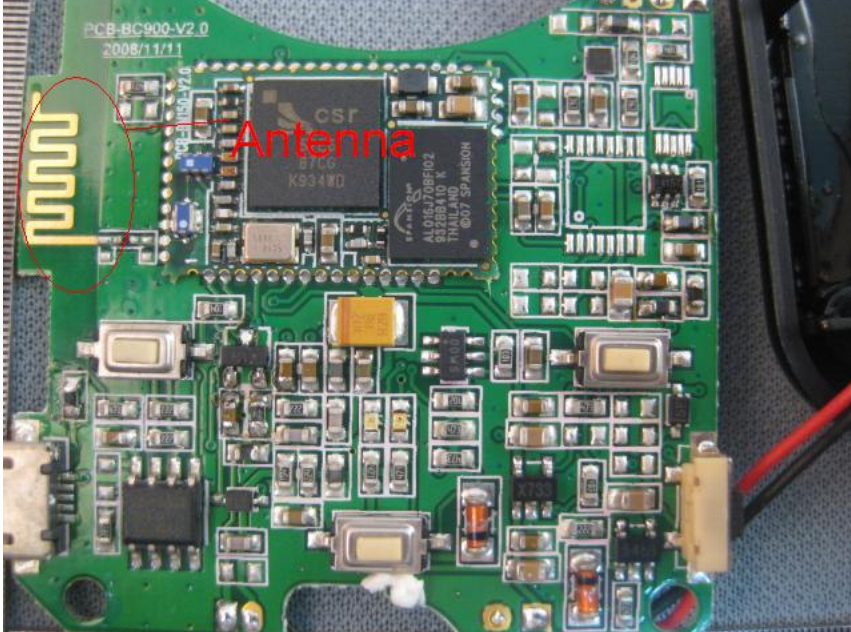


RF conducted						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2009-10-22	2010-10-22
2	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18

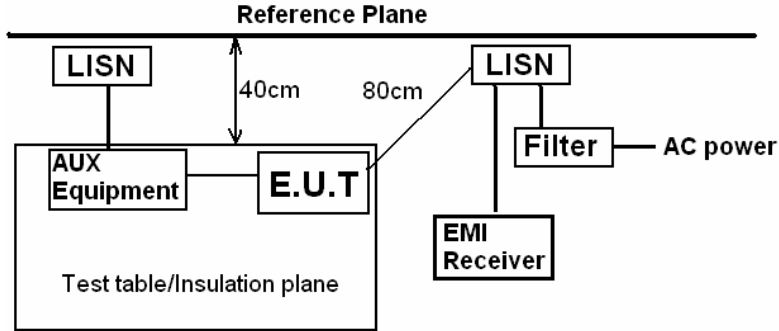
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5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement: <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p> <p>15.247(c) (1)(i) requirement: <i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i></p>	
E.U.T Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best gain of the antenna is 0dBi.</p>	
	

5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10: 2009														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.														
Test setup:	 <p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p>														
Test Instruments:	Refer to section 4.7 for details														
Test mode:	PC charge, PC charge+Bluetooth														
Test result:	Pass														

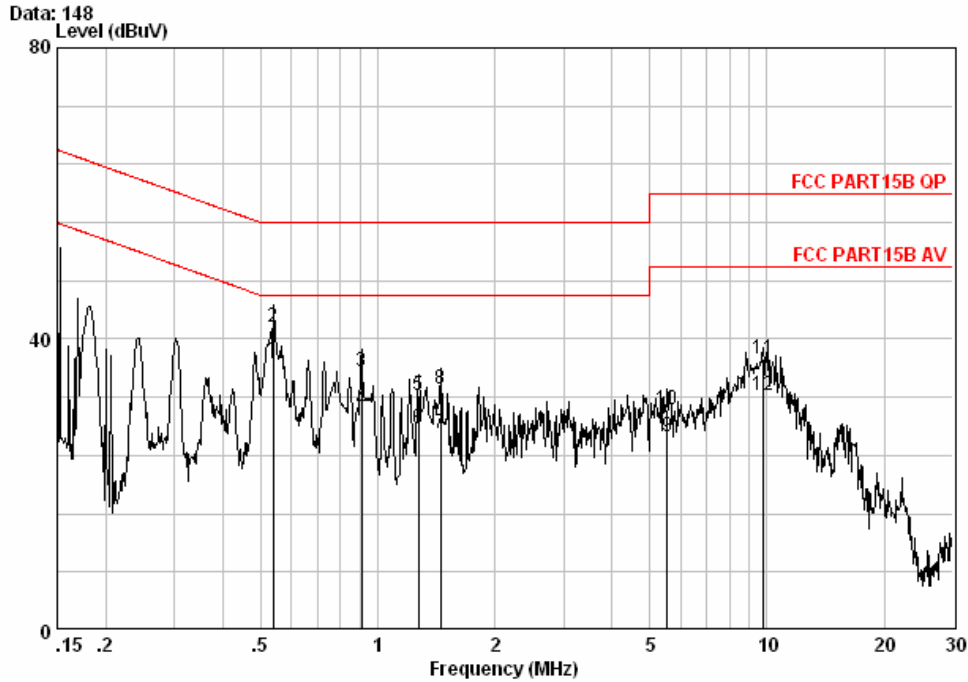
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

PC charge

Live line:



Site : Shielding Room
 Condition : FCC PART15B QP CE LINE
 EUT : Bluetooth speakerphone
 JOB NO. : 5334RF
 MODE : PC Charge

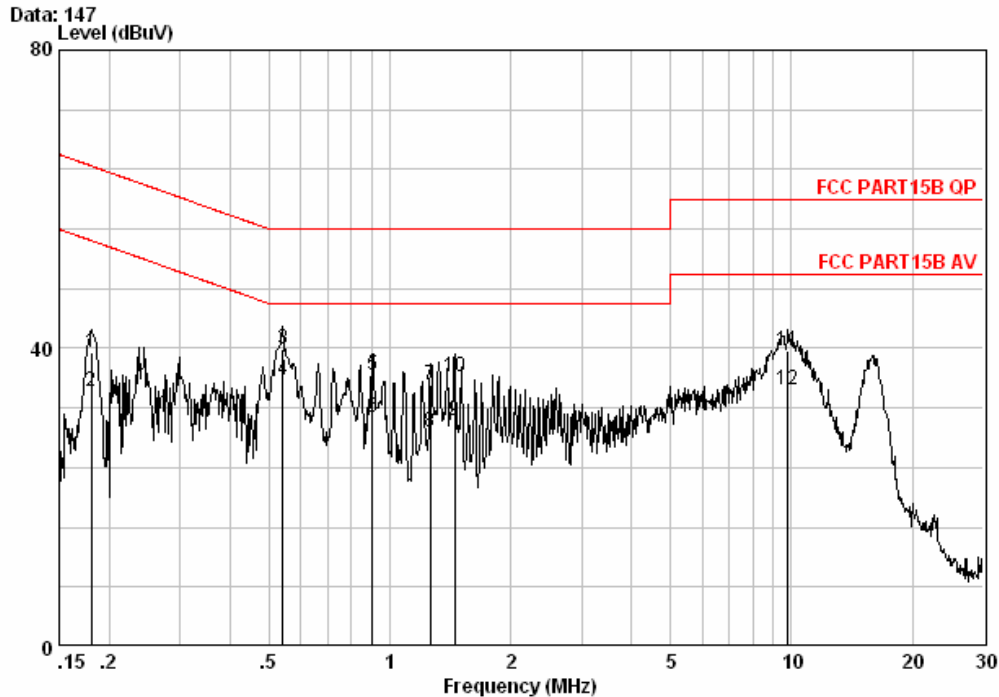
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.53782	0.16	-0.04	36.94	37.06	46.00	-8.94	Average
2	0.53782	0.16	-0.04	41.59	41.71	56.00	-14.29	QP
3	0.90874	0.19	-0.05	35.38	35.52	56.00	-20.48	QP
4	0.90874	0.19	-0.05	30.15	30.29	46.00	-15.71	Average
5	1.269	0.20	-0.05	32.07	32.22	56.00	-23.78	QP
6	1.269	0.20	-0.05	27.55	27.70	46.00	-18.30	Average
7	1.449	0.20	-0.06	26.86	27.00	46.00	-19.00	Average
8	1.449	0.20	-0.06	32.95	33.09	56.00	-22.91	QP
9	5.535	0.23	-0.12	26.52	26.63	50.00	-23.37	Average
10	5.535	0.23	-0.12	30.13	30.24	60.00	-29.76	QP
11	9.809	0.27	-0.28	37.20	37.19	60.00	-22.81	QP
12	9.809	0.27	-0.28	32.38	32.37	50.00	-17.63	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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Neutral line:



Site : Shielding Room
 Condition : FCC PART15B QP CE NEUTRAL
 EUT : Bluetooth speakerphone
 JOB NO. : 5334RF
 MODE : PC Charge

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.18056	0.14	-0.04	39.37	39.47	64.46	-24.99 QP
2	0.18056	0.14	-0.04	34.14	34.24	54.46	-20.22 Average
3	0.54068	0.16	-0.04	39.87	39.99	56.00	-16.01 QP
4 @	0.54068	0.16	-0.04	35.64	35.76	46.00	-10.24 Average
5	0.90394	0.19	-0.04	36.21	36.36	56.00	-19.64 QP
6	0.90394	0.19	-0.04	30.54	30.69	46.00	-15.31 Average
7	1.262	0.20	-0.05	34.85	35.00	56.00	-21.00 QP
8	1.262	0.20	-0.05	28.65	28.80	46.00	-17.20 Average
9	1.449	0.20	-0.05	30.25	30.40	46.00	-15.60 Average
10	1.449	0.20	-0.05	36.13	36.28	56.00	-19.72 QP
11	9.809	0.27	-0.33	39.78	39.73	60.00	-20.27 QP
12	9.809	0.27	-0.33	34.43	34.37	50.00	-15.63 Average

Notes:

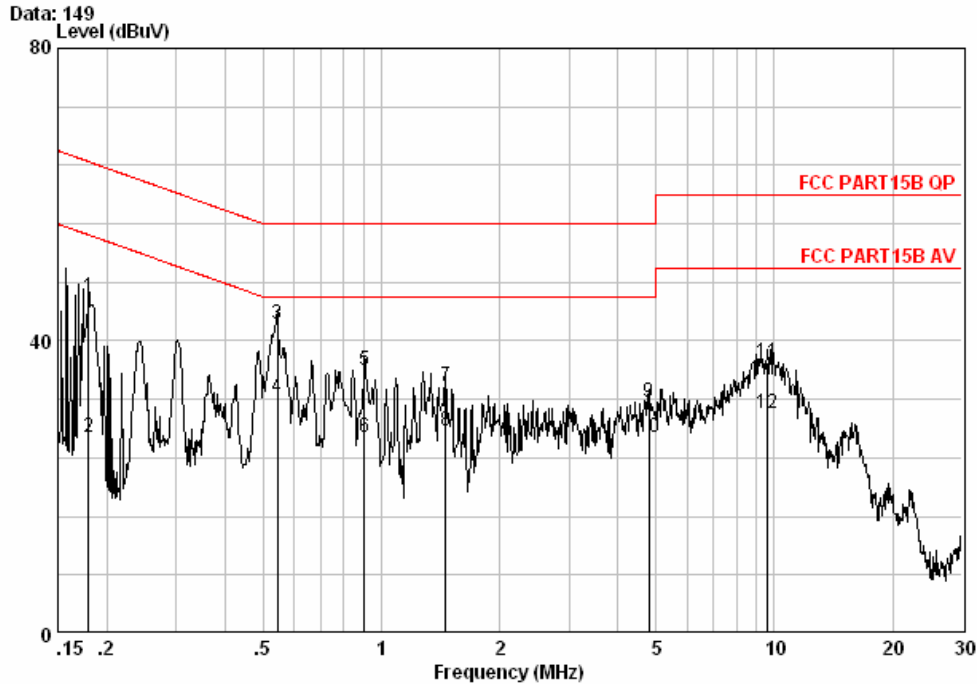
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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PC charge + Bluetooth

Live line:



Site : Shielding Room
 Condition : FCC PART15B QP CE LINE
 EUT : Bluetooth speakerphone
 JOB NO. : 5334RF
 MODE : PC Charge+Bluetooth

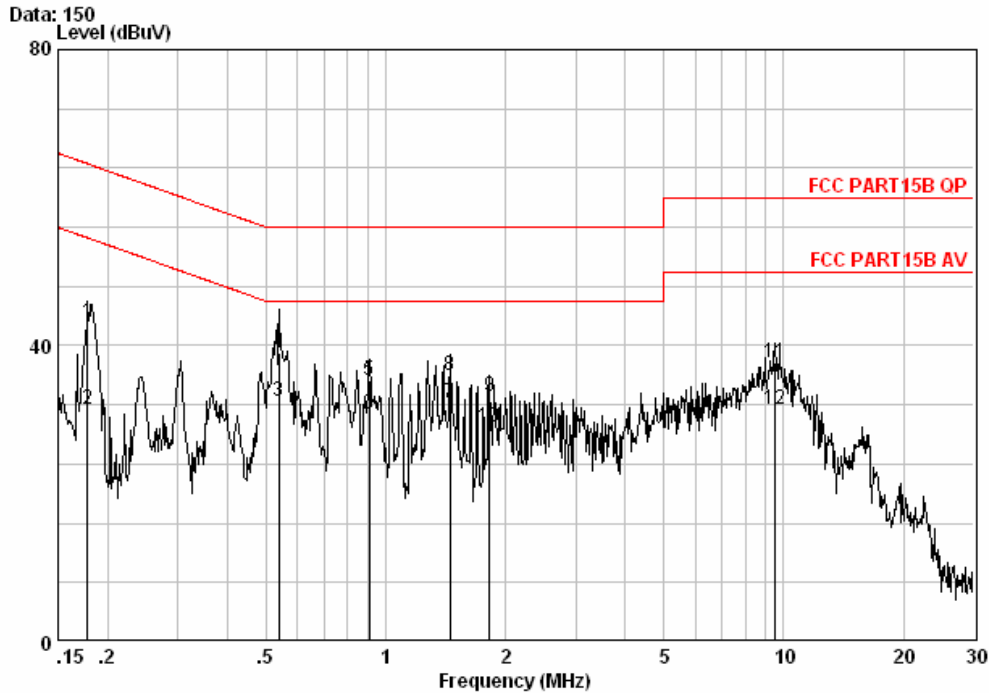
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17961	0.14	-0.05	45.87	45.96	64.50	-18.54	QP
2	0.17961	0.14	-0.05	26.75	26.84	54.50	-27.66	Average
3	0.54355	0.16	-0.04	42.13	42.25	56.00	-13.75	QP
4	0.54355	0.16	-0.04	32.14	32.26	46.00	-13.74	Average
5	0.90394	0.19	-0.05	35.85	35.99	56.00	-20.01	QP
6	0.90394	0.19	-0.05	26.65	26.79	46.00	-19.21	Average
7	1.456	0.20	-0.06	33.71	33.86	56.00	-22.14	QP
8	1.456	0.20	-0.06	27.46	27.60	46.00	-18.40	Average
9	4.797	0.22	-0.11	31.42	31.54	56.00	-24.46	QP
10	4.797	0.22	-0.11	26.61	26.72	46.00	-19.28	Average
11	9.603	0.27	-0.28	37.13	37.12	60.00	-22.88	QP
12	9.603	0.27	-0.28	30.08	30.07	50.00	-19.93	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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Neutral line:



Site : Shielding Room
 Condition : FCC PART15B QP CE NEUTRAL
 EUT : Bluetooth speakerphone
 JOB NO. : 5334RF
 MODE : PC Charge+Bluetooth

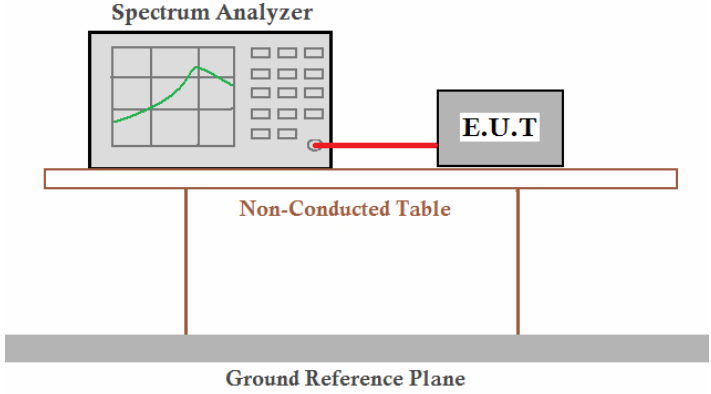
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17772	0.14	-0.04	43.05	43.14	64.59	-21.45	QP
2	0.17772	0.14	-0.04	31.24	31.34	54.59	-23.25	Average
3	0.53782	0.16	-0.04	32.44	32.56	46.00	-13.44	Average
4	0.53782	0.16	-0.04	38.80	38.92	56.00	-17.08	QP
5	0.90874	0.19	-0.04	35.06	35.21	56.00	-20.79	QP
6	0.90874	0.19	-0.04	30.64	30.79	46.00	-15.21	Average
7	1.449	0.20	-0.05	32.15	32.30	46.00	-13.70	Average
8	1.449	0.20	-0.05	35.78	35.92	56.00	-20.08	QP
9	1.819	0.20	-0.06	32.98	33.12	56.00	-22.88	QP
10	1.819	0.20	-0.06	28.76	28.90	46.00	-17.10	Average
11	9.502	0.27	-0.31	37.65	37.61	60.00	-22.39	QP
12	9.502	0.27	-0.31	31.51	31.47	50.00	-18.53	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	30dBm
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with all kinds of modulation.
Test results:	Passed



Measurement Data

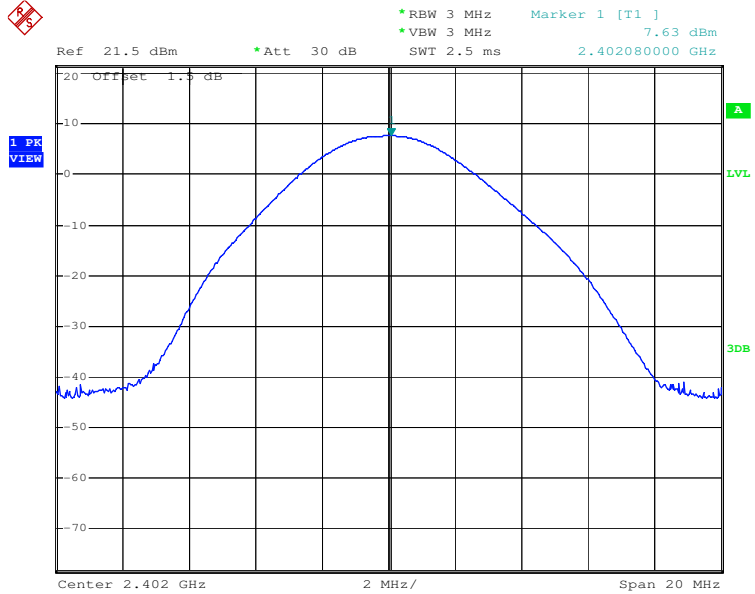
GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.63	30.00	Pass
Middle	6.87	30.00	Pass
Highest	5.73	30.00	Pass
Pi/4QPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.55	30.00	Pass
Middle	5.80	30.00	Pass
Highest	4.57	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.62	30.00	Pass
Middle	5.96	30.00	Pass
Highest	4.66	30.00	Pass

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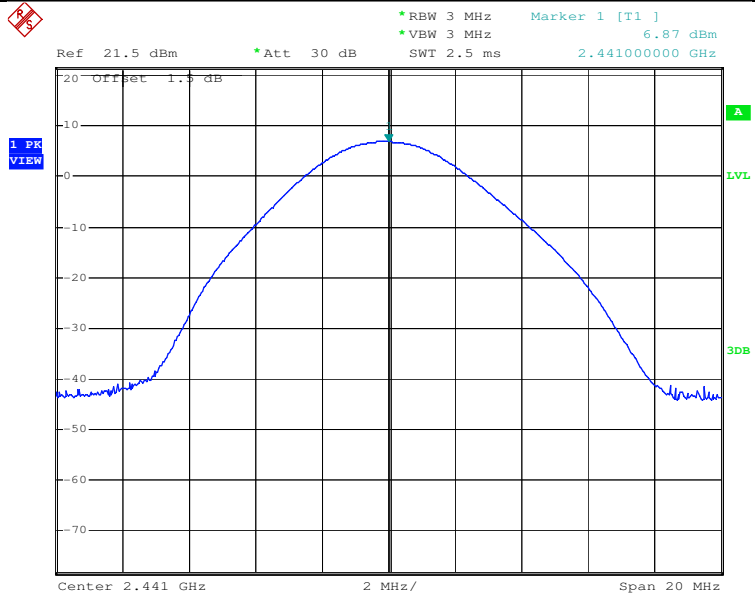
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 26.AUG.2010 07:25:15

Test mode:	GFSK	Test channel:	Middle
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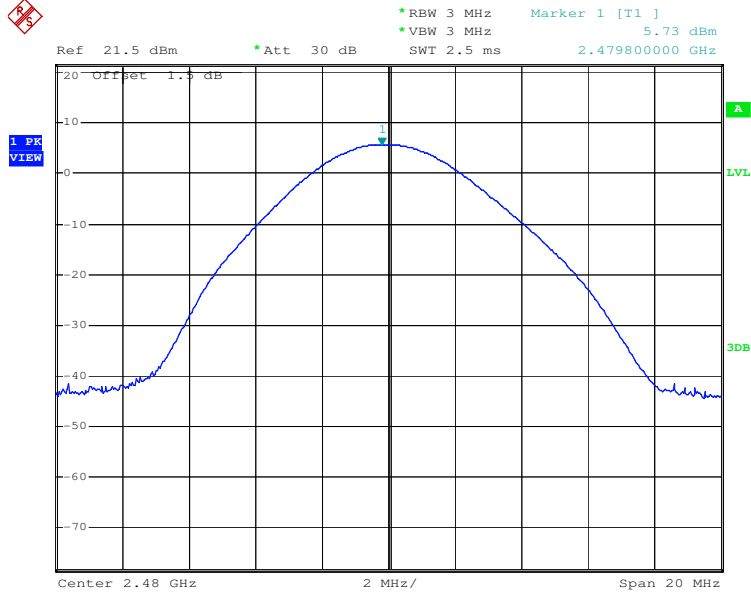


Date: 26.AUG.2010 08:17:46

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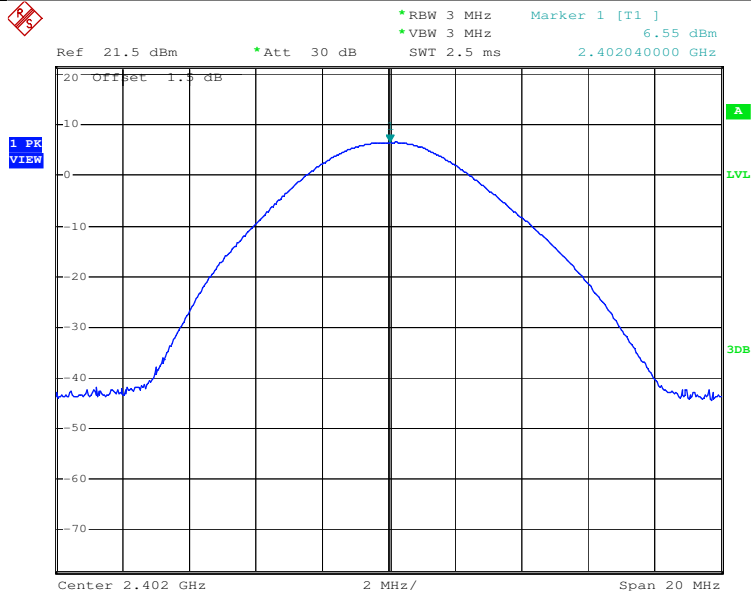


Test mode:	GFSK	Test channel:	Highest
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Date: 26.AUG.2010 09:49:52

Test mode:	Pi/4QPSK	Test channel:	Lowest
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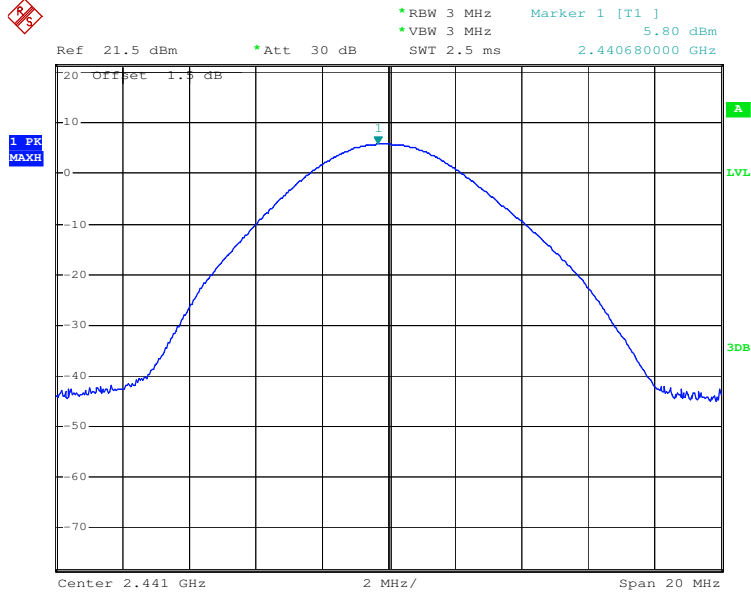


Date: 26.AUG.2010 10:17:30

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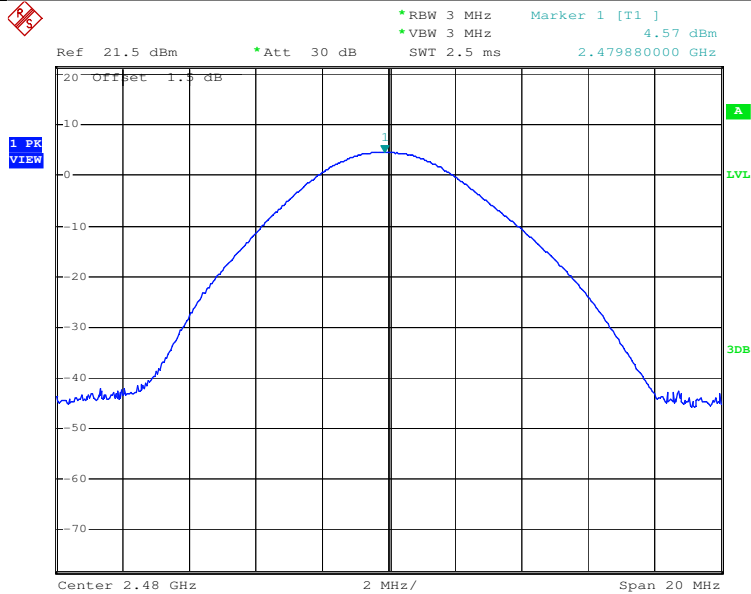


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 26.AUG.2010 10:37:30

Test mode:	Pi/4QPSK	Test channel:	Highest
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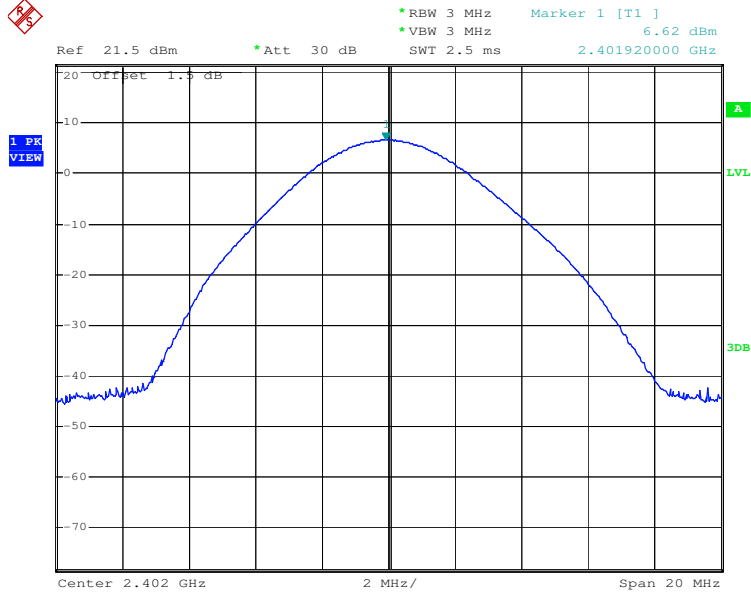


Date: 26.AUG.2010 12:12:03

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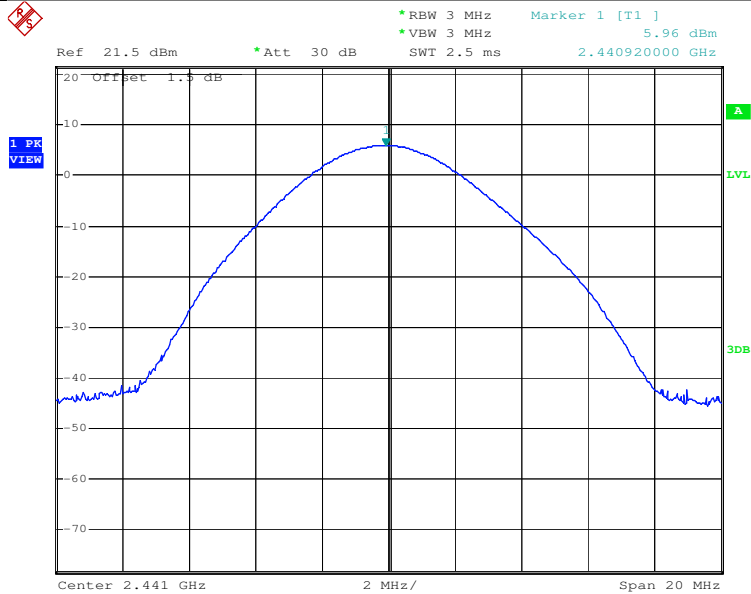


Test mode:	8DPSK	Test channel:	Lowest
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Date: 26.AUG.2010 12:29:48

Test mode:	8DPSK	Test channel:	Middle
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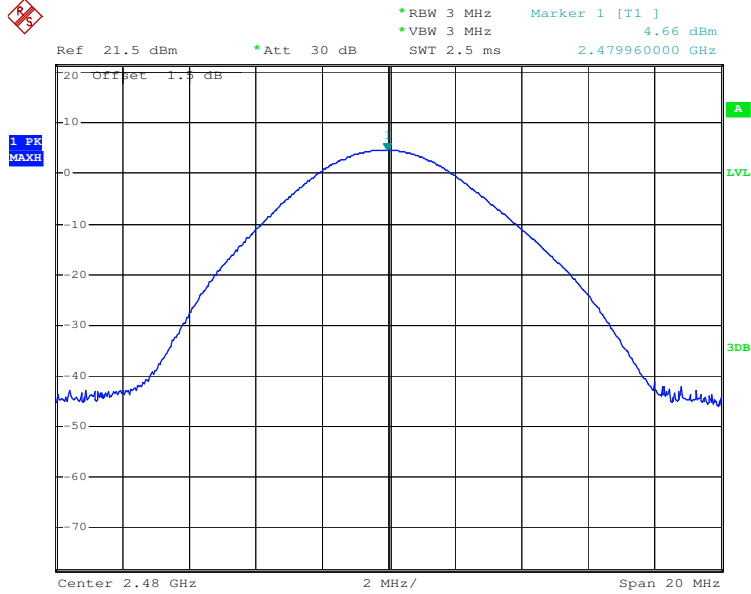


Date: 26.AUG.2010 12:46:27

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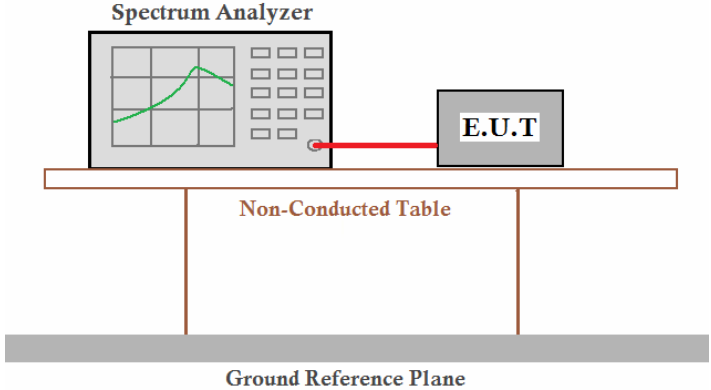
Test mode:	8DPSK	Test channel:	Highest
------------	-------	---------------	---------



Date: 26.AUG.2010 13:10:45

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5.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	NA
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with all kind of modulation.
Test results:	Passed

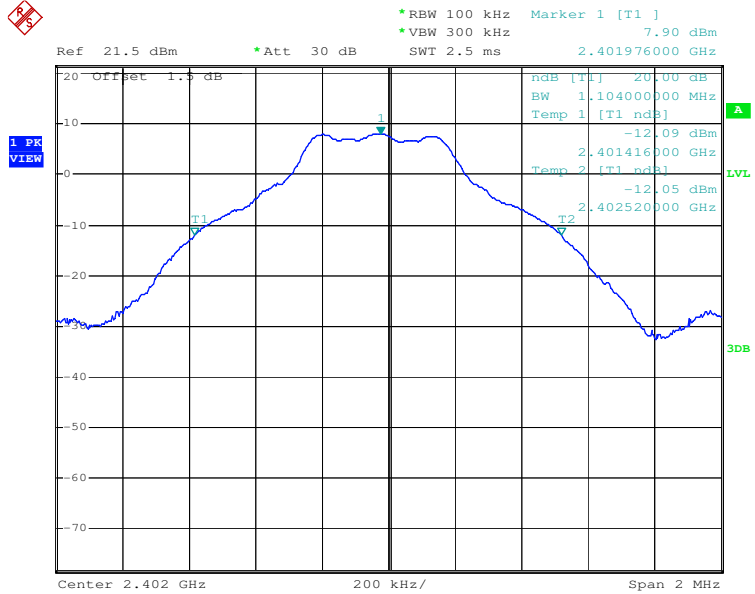
Measurement Data

Test channel	20dB Occupy Bandwidth (KHz)		
	GFSK	Pi/4QPSK	8DPSK
Lowest	1104	1384	1352
Middle	1104	1380	1360
Highest	1100	1376	1360



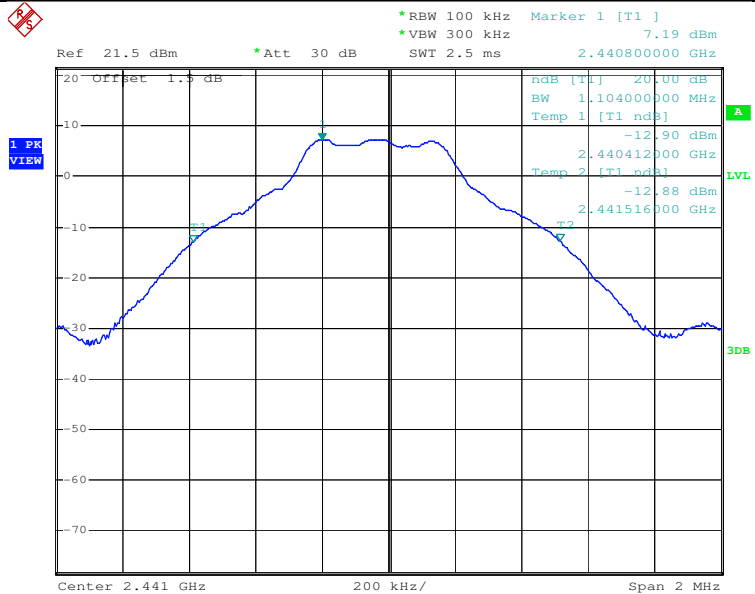
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 26.AUG.2010 07:31:05

Test mode:	GFSK	Test channel:	Middle
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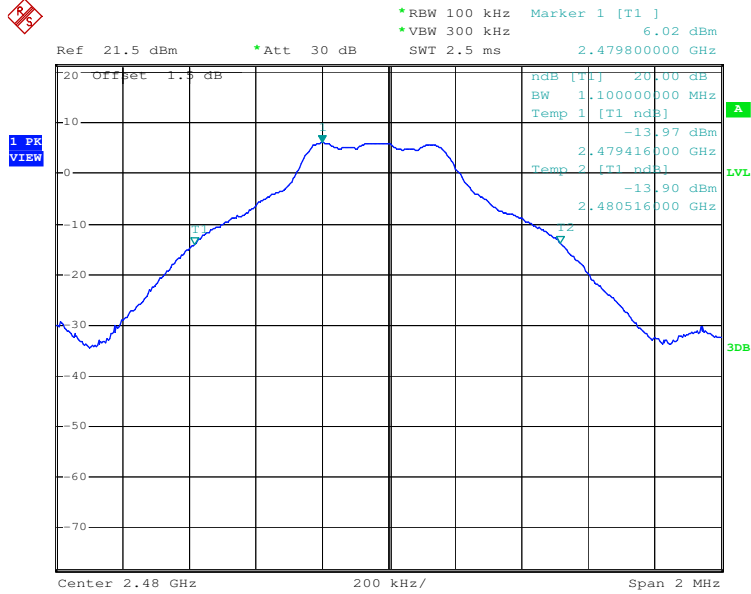


Date: 26.AUG.2010 08:20:02

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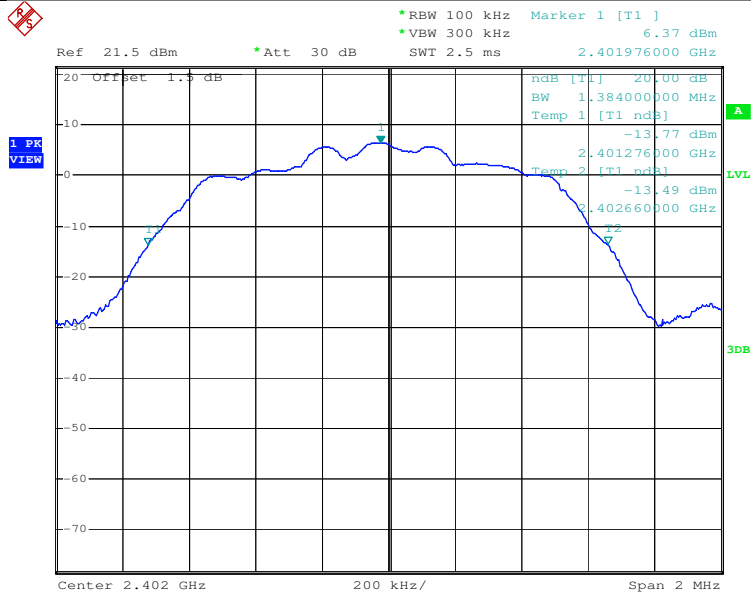


Test mode:	GFSK	Test channel:	Highest
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Date: 26.AUG.2010 09:51:23

Test mode:	Pi/4QPSK	Test channel:	Lowest
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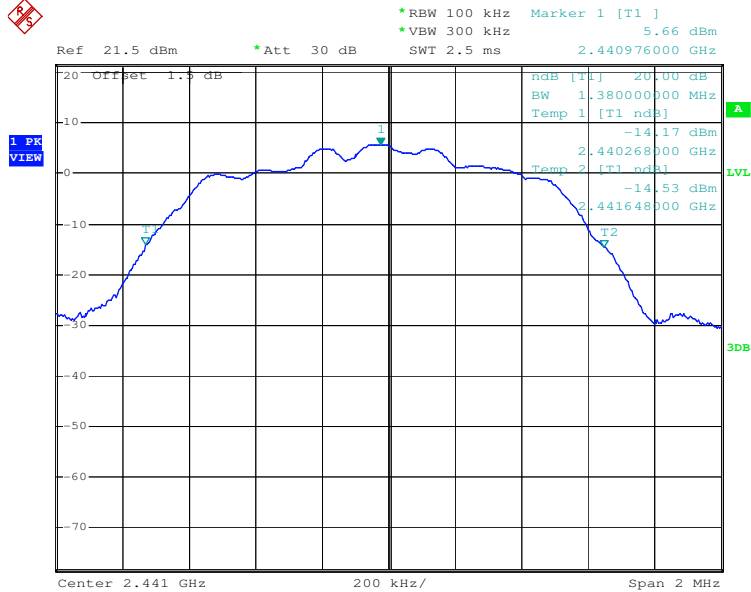


Date: 26.AUG.2010 10:18:55

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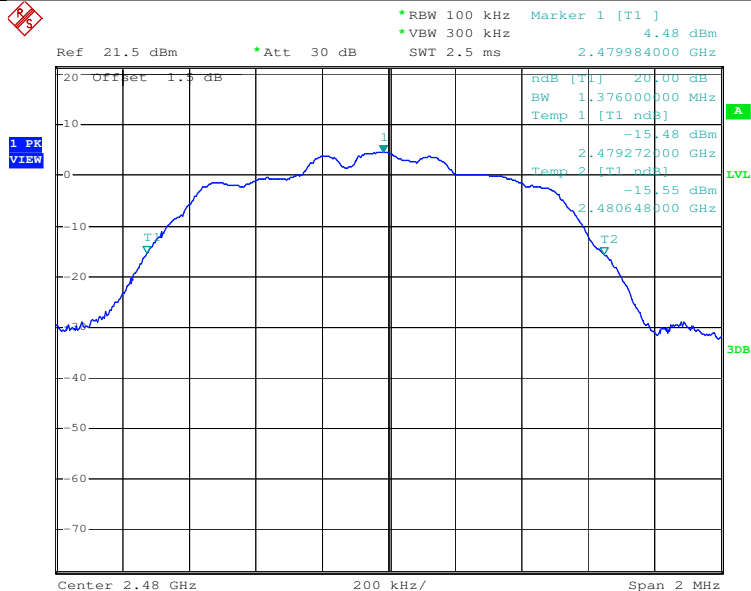


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 26.AUG.2010 10:38:22

Test mode:	Pi/4QPSK	Test channel:	Highest
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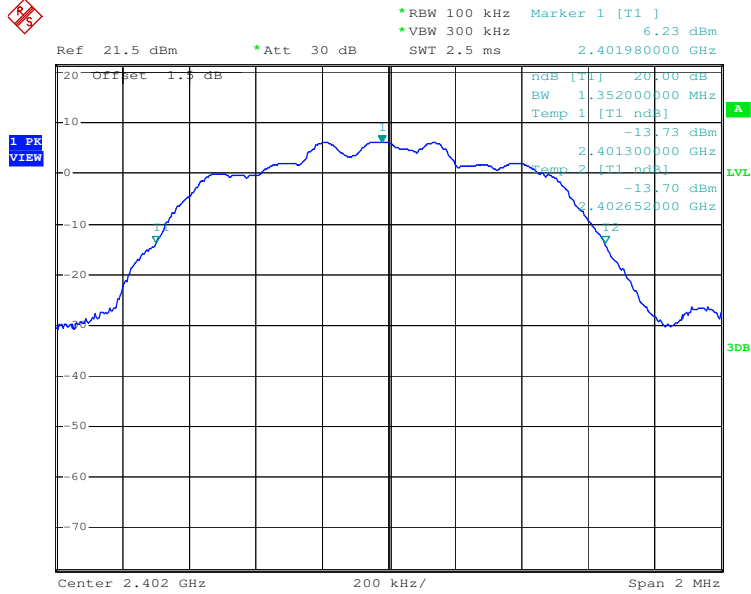


Date: 26.AUG.2010 12:12:57

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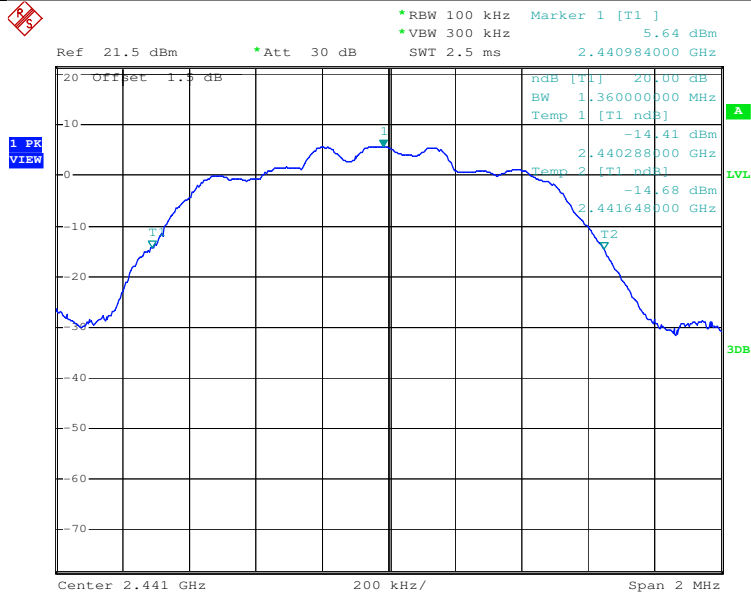


Test mode:	8DPSK	Test channel:	Lowest
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Date: 26.AUG.2010 12:31:11

Test mode:	8DPSK	Test channel:	Middle
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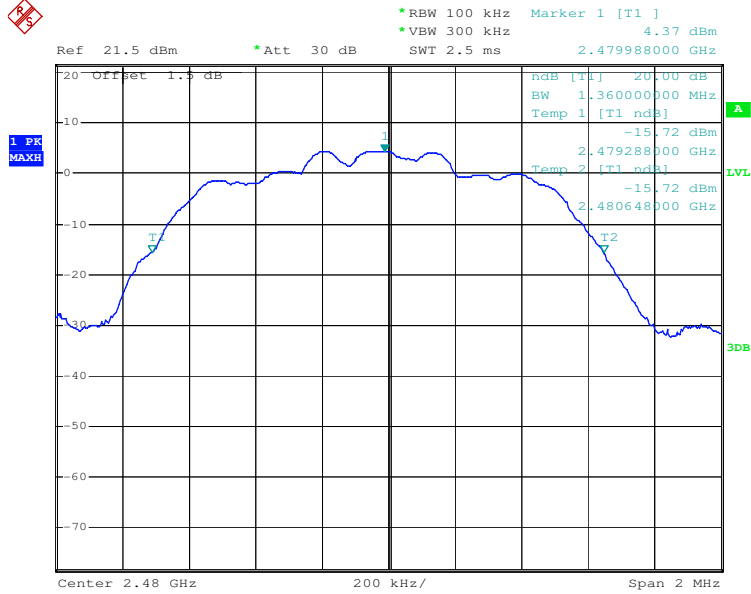


Date: 26.AUG.2010 12:47:21

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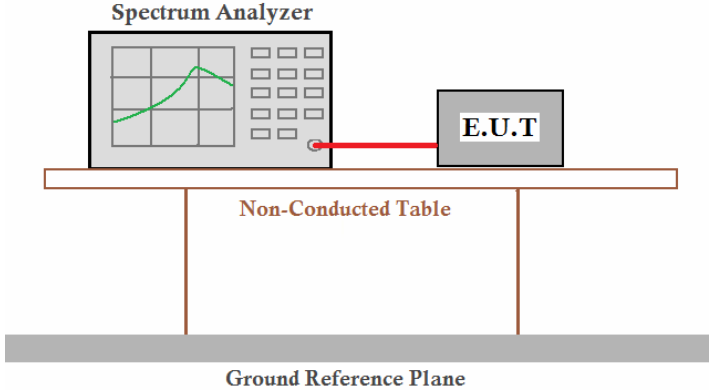
Test mode:	8DPSK	Test channel:	Highest
------------	-------	---------------	---------



Date: 26.AUG.2010 13:11:59

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5.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Test state:	Hopping transmitting with all kind of modulation.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test results:	Passed

Measurement Data

GFSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1008	922.7	Pass
Middle	1008	922.7	Pass
Highest	1008	922.7	Pass
Pi/4QPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1004	922.7	Pass
Middle	1008	922.7	Pass
Highest	1004	922.7	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1008	922.7	Pass
Middle	1000	922.7	Pass
Highest	1004	922.7	Pass

Note: According to section 5.4,

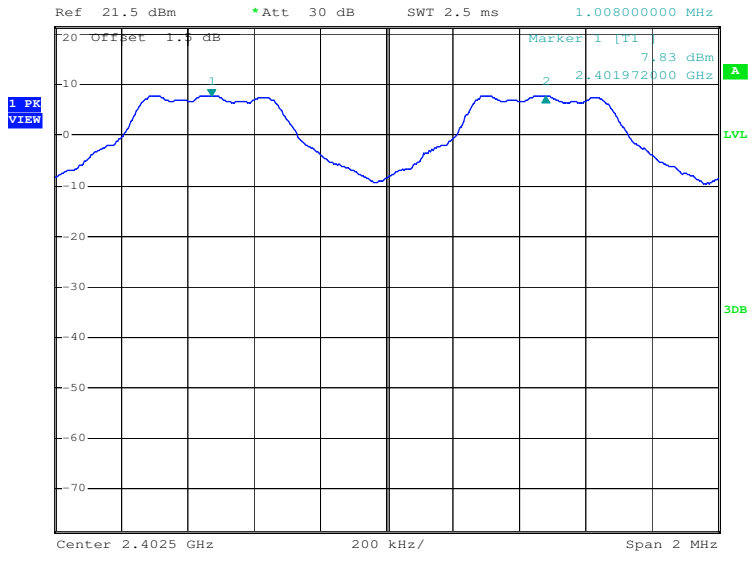
Mode	20dB bandwidth (KHz) (worse case)	Limit (KHz) (Carrier Frequencies Separation)
GFSK	1104	736.0
PI/4QPSK	1384	922.7
8DPSK	1360	906.7

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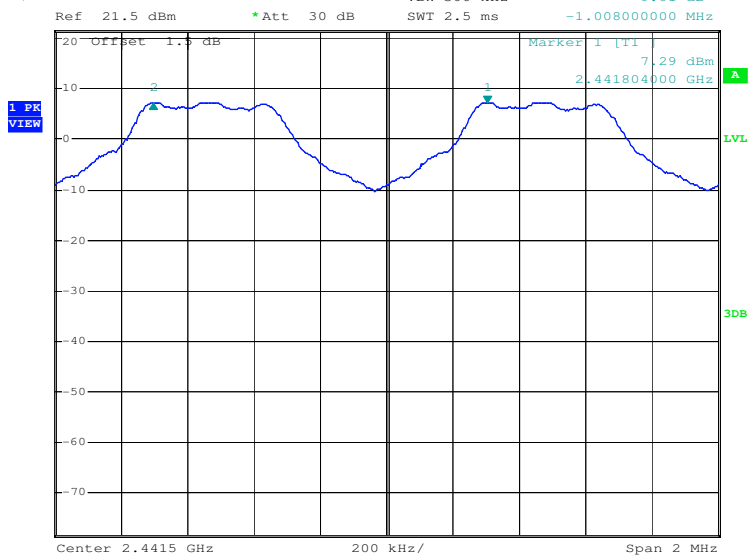
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
------------	------	---------------	--------



Date: 26.AUG.2010 07:59:13

Test mode:	GFSK	Test channel:	Middle
------------	------	---------------	--------



Date: 3.SEP.2010 15:07:32

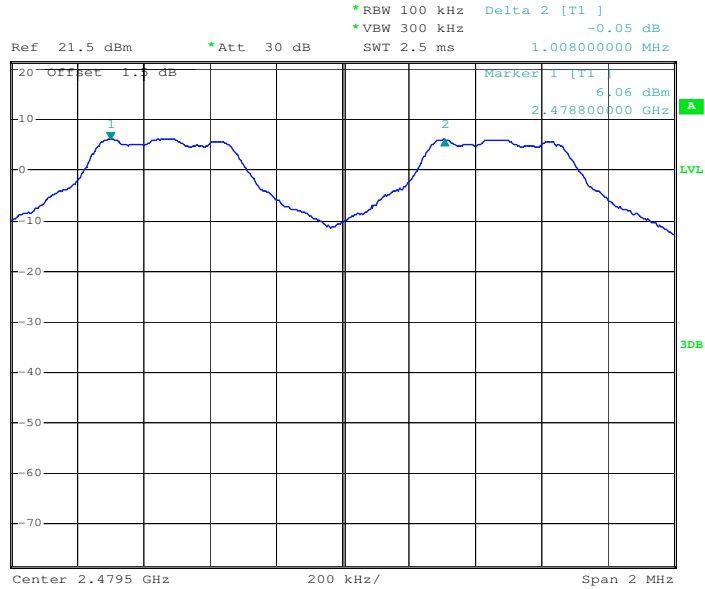
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Test mode:	GFSK	Test channel:	Highest
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PK
VIEW

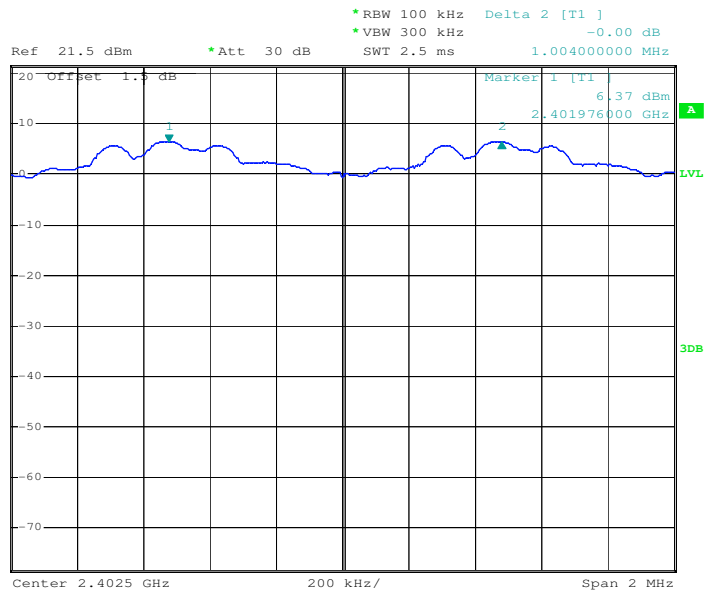


Date: 26.AUG.2010 09:55:10

Test mode:	Pi/4QPSK	Test channel:	Lowest
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PK
VIEW

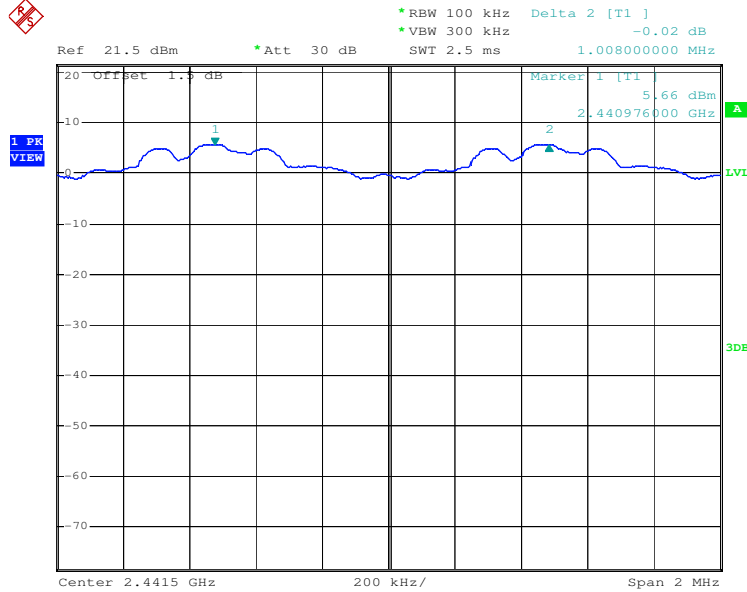


Date: 26.AUG.2010 10:22:59

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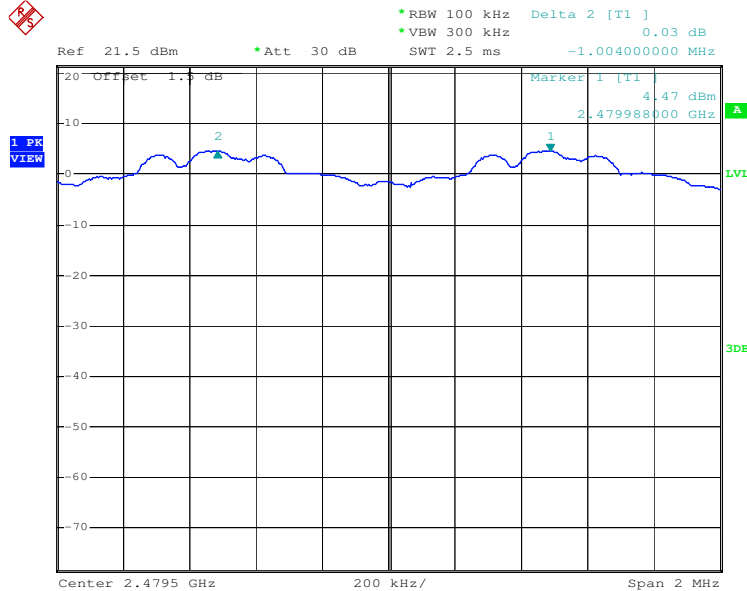


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 26.AUG.2010 10:41:10

Test mode:	Pi/4QPSK	Test channel:	Highest
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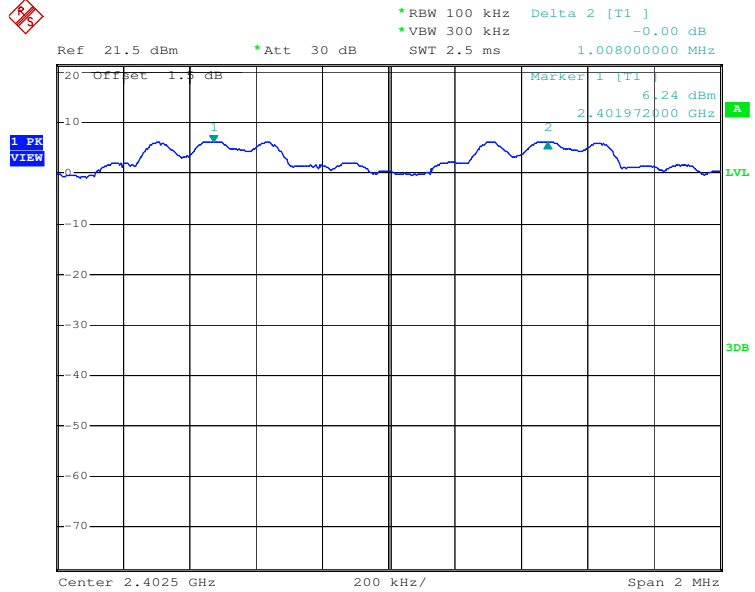


Date: 26.AUG.2010 12:15:48

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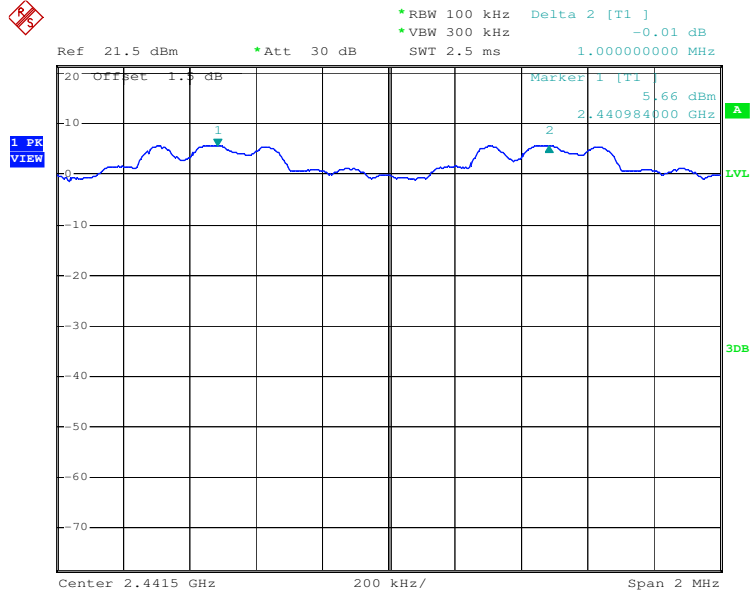


Test mode:	8DPSK	Test channel:	Lowest
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Date: 26.AUG.2010 12:33:47

Test mode:	8DPSK	Test channel:	Middle
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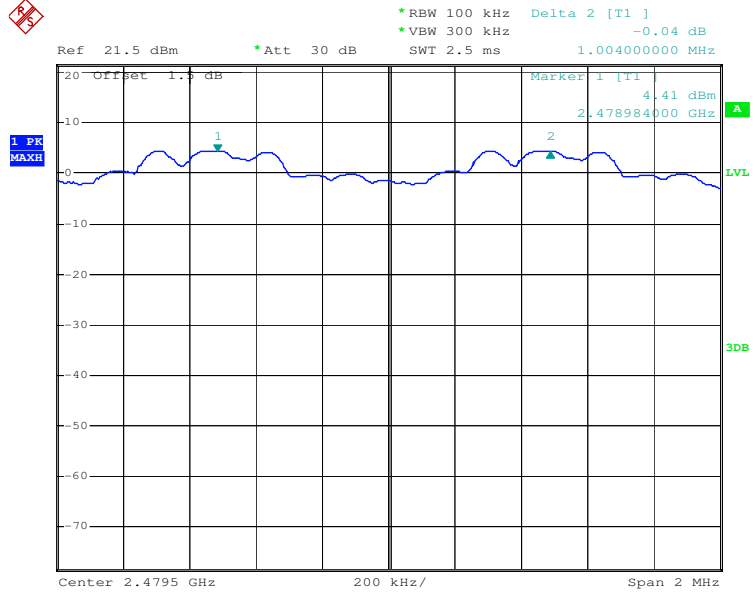


Date: 26.AUG.2010 12:50:35

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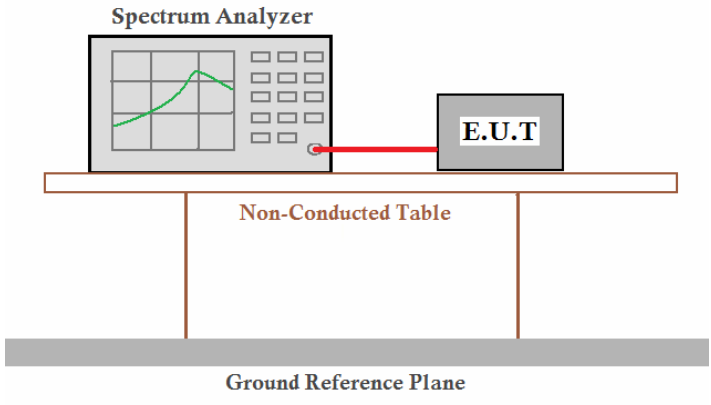
Test mode:	8DPSK	Test channel:	Highest
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Date: 26.AUG.2010 13:16:08

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5.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (b)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Requirement:	≥75 channels
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kind of modulation.
Test results:	Passed

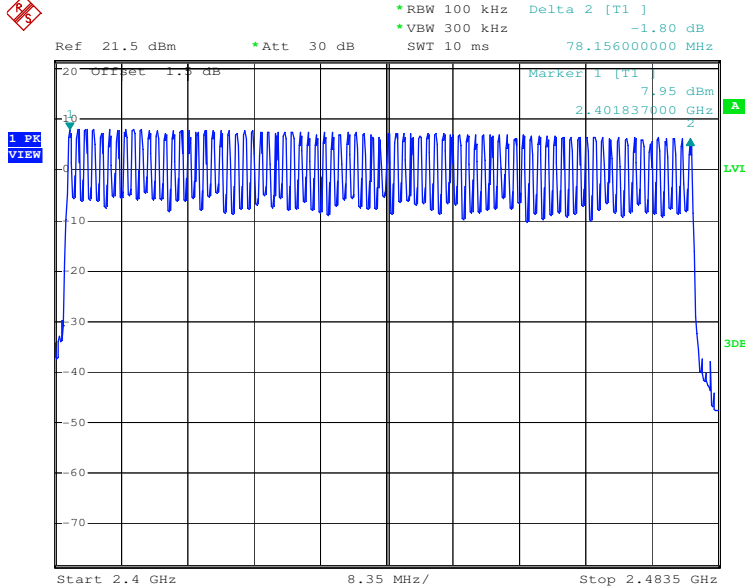
Measurement Data

Mode	Hopping channel	Requirement
GFSK	79	≥75
Pi/4QPSK	79	≥75
8DPSK	79	≥75



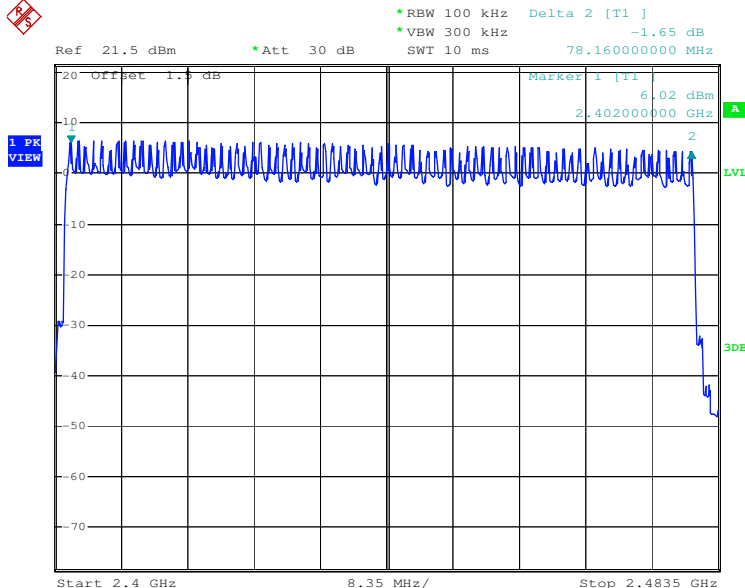
Test plot as follows

Test mode: GFSK



Date: 26.AUG.2010 08:15:29

Test mode: Pi/4QPSK

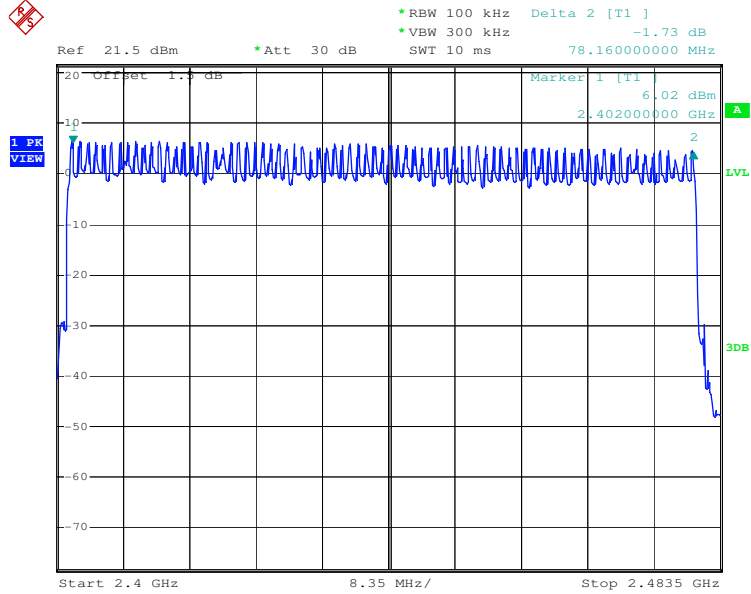


Date: 26.AUG.2010 10:34:51

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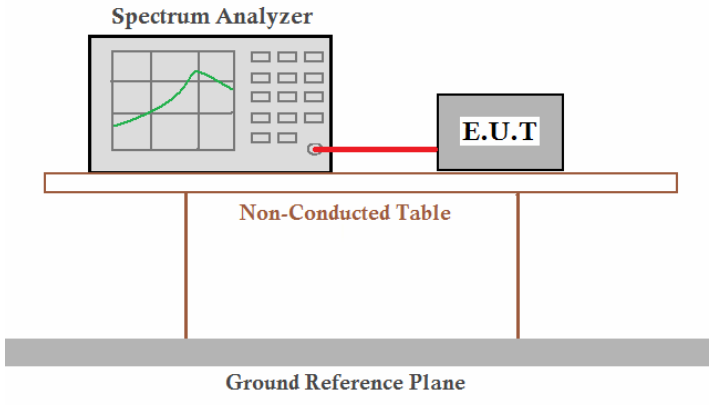
Test mode:	8DPSK
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Date: 26.AUG.2010 12:45:28

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5.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	≤ 0.4 Second
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kind of modulation.
Test results:	Passed

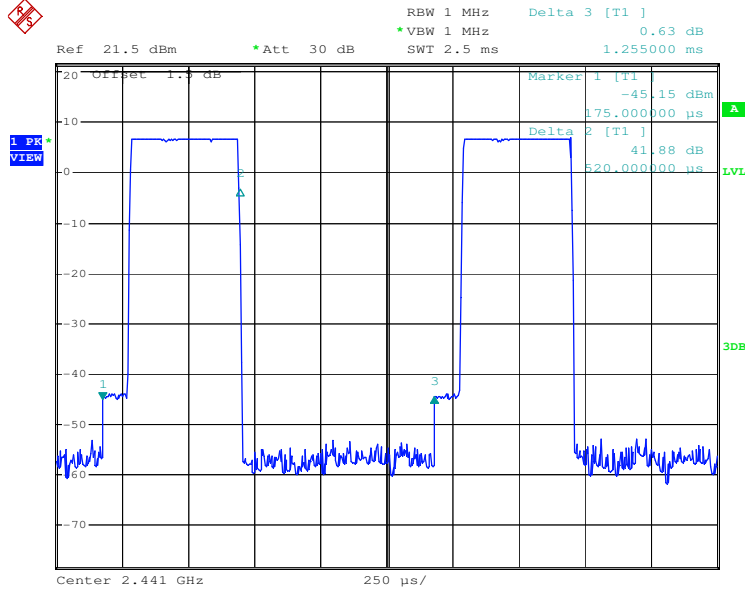
Measurement Data

Mode	Packet	Dwell time (second)	Limit (second)
GFSK	DH1	0.1664	≤0.4
	DH3	0.2880	≤0.4
	DH5	0.3285	≤0.4
Pi/4QPSK	2-DH1	0.1728	≤0.4
	2-DH3	0.2880	≤0.4
	2-DH5	0.1984	≤0.4
8DPSK	3-DH1	0.1712	≤0.4
	3-DH3	0.2872	≤0.4
	3-DH5	0.3237	≤0.4



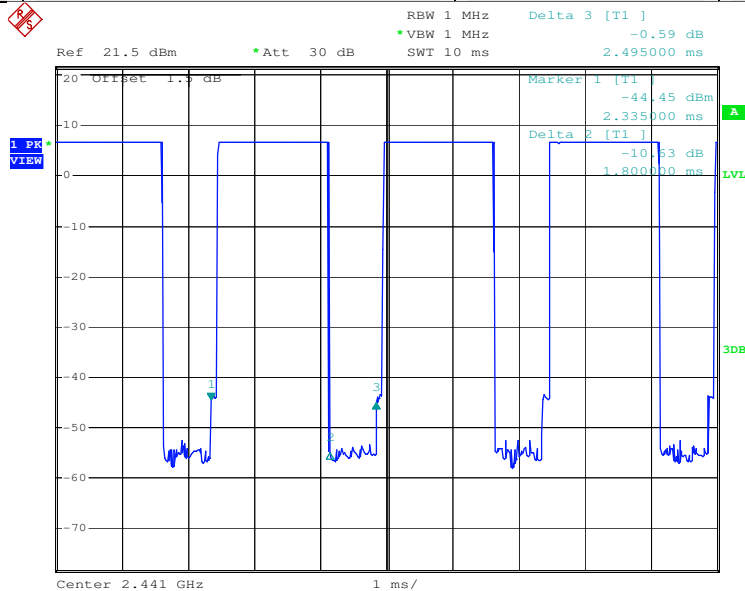
Test plot as follows

Test mode:	GFSK	Test Packet:	DH1
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Date: 26.AUG.2010 09:42:00

Test mode:	GFSK	Test Packet:	DH3
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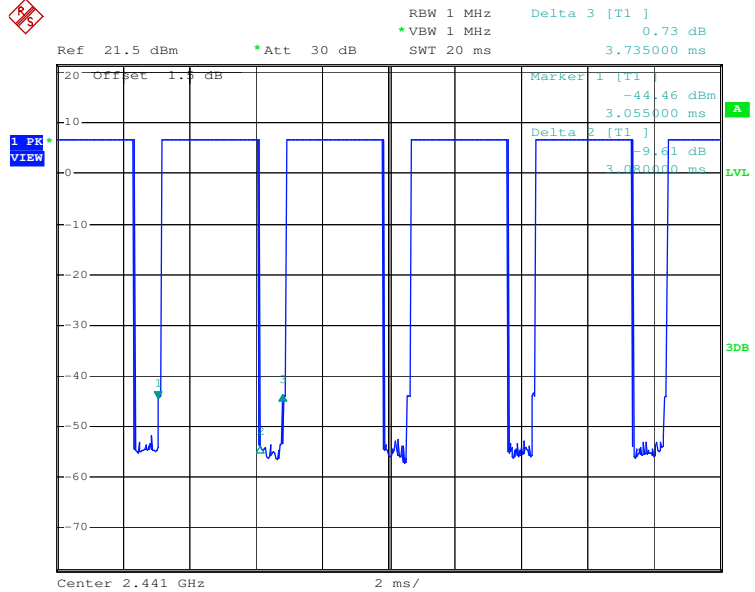


Date: 26.AUG.2010 09:43:59

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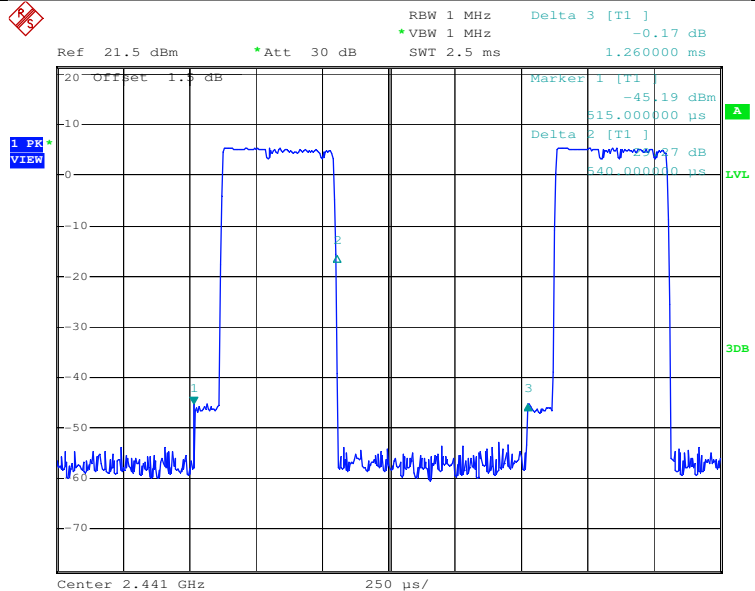


Test mode:	GFSK	Test Packet:	DH5
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Date: 26.AUG.2010 09:45:56

Test mode:	Pi/4QPSK	Test Packet:	2-DH1
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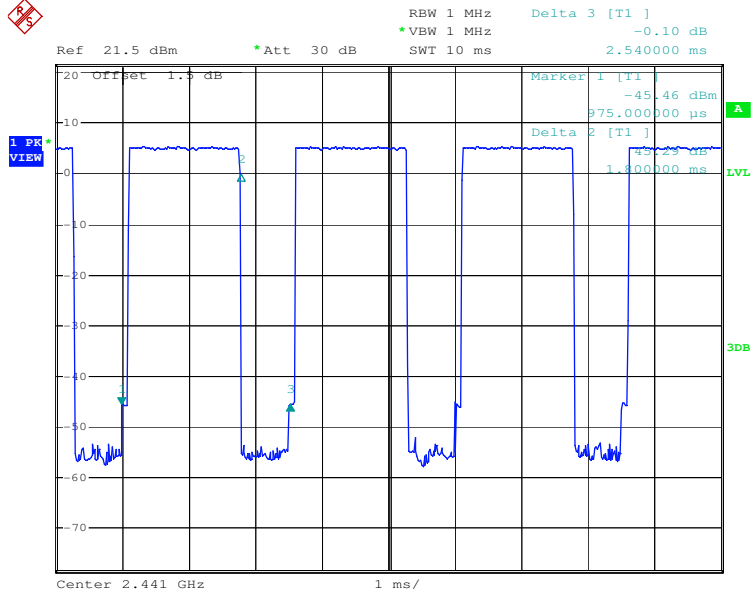


Date: 26.AUG.2010 10:45:40

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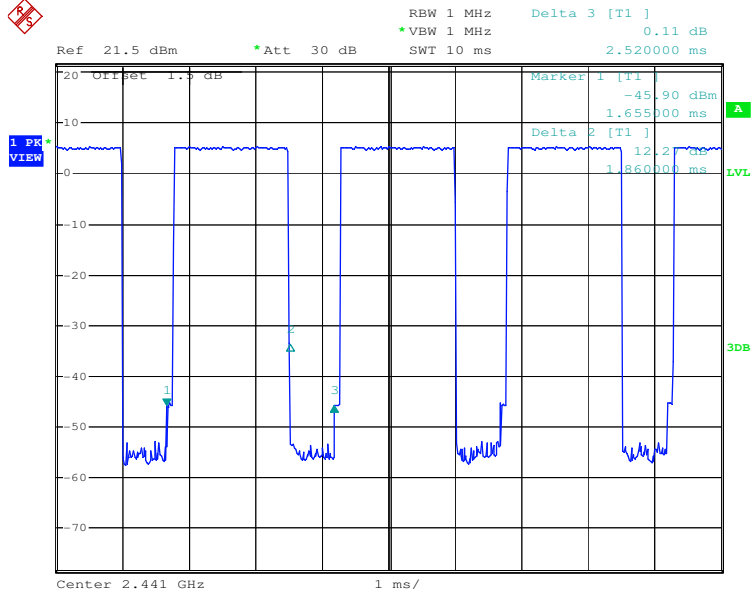


Test mode:	Pi/4QPSK	Test Packet:	2-DH3
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Date: 26.AUG.2010 10:46:48

Test mode:	Pi/4QPSK	Test Packet:	2-DH5
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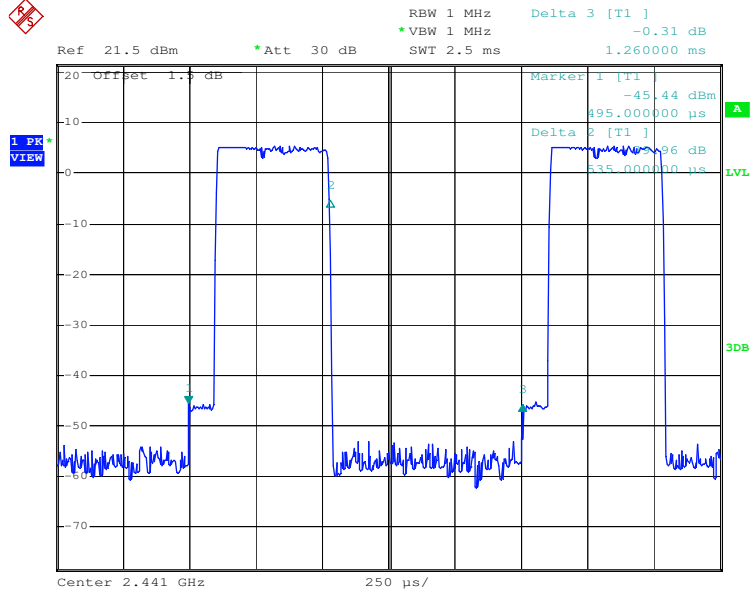


Date: 26.AUG.2010 10:48:04

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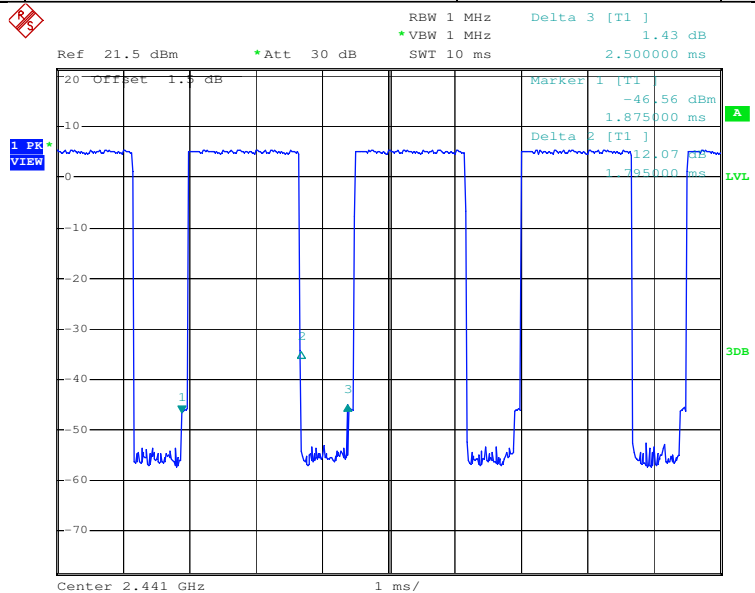


Test mode:	8DPSK	Test Packet:	3-DH1
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Date: 26.AUG.2010 12:54:35

Test mode:	8DPSK	Test Packet:	3-DH3
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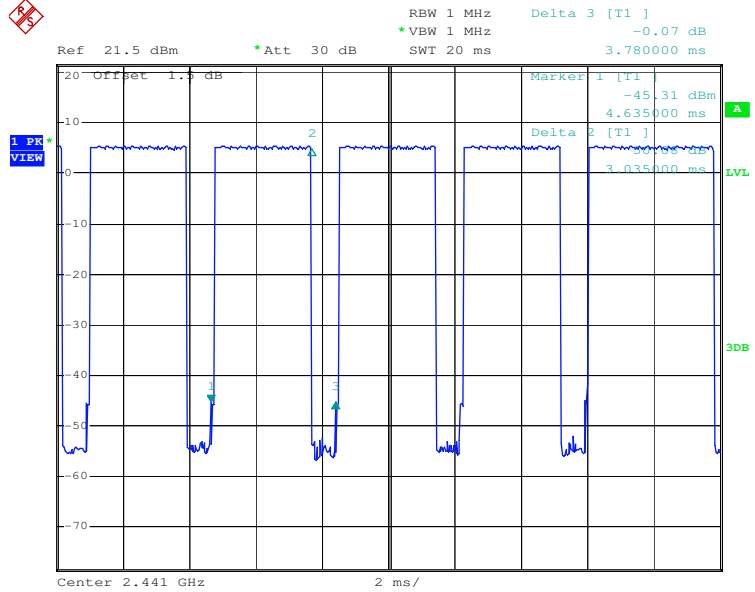


Date: 26.AUG.2010 12:55:45

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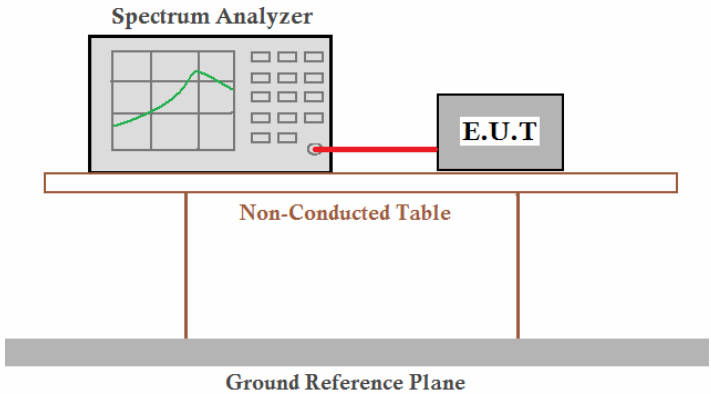
Test mode:	8DPSK	Test Packet:	3-DH5
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Date: 26.AUG.2010 12:59:55

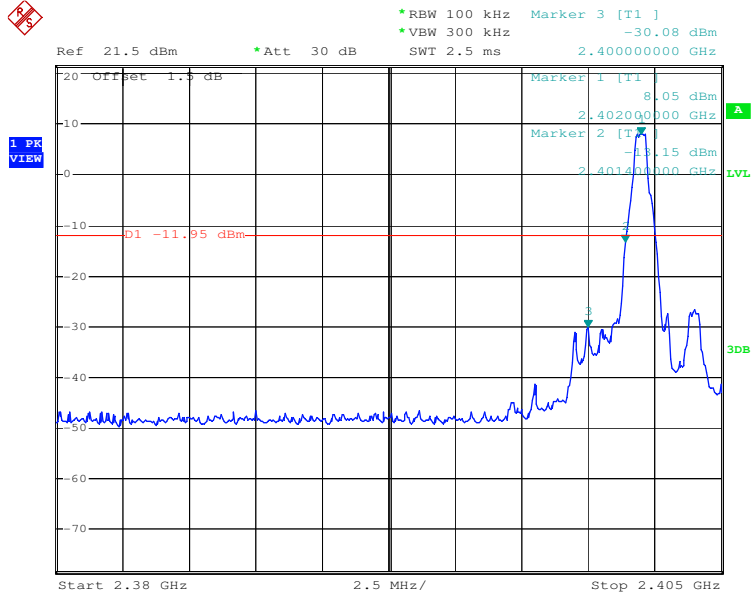
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5.8 Band Edge

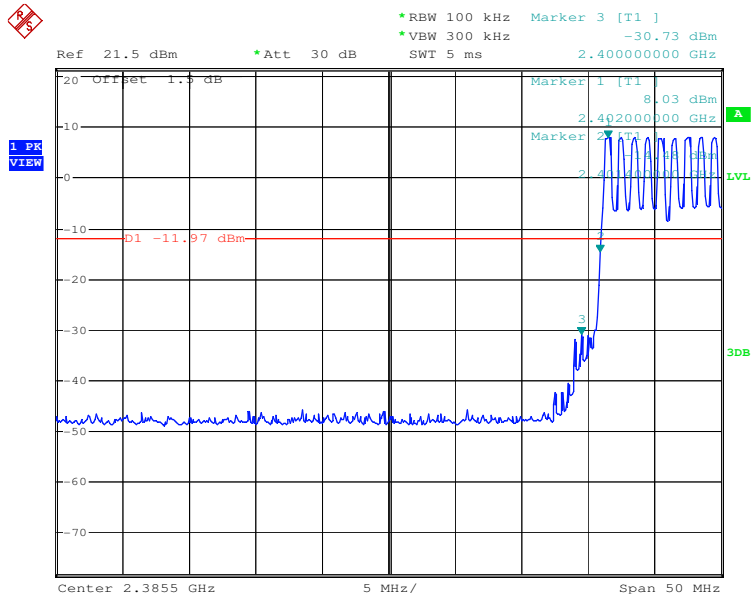
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at 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 or a radiated measurement.
Test setup:	 <p style="text-align: center;"><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kinds of modulation.
Test results:	Passed

Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 26.AUG.2010 08:02:35

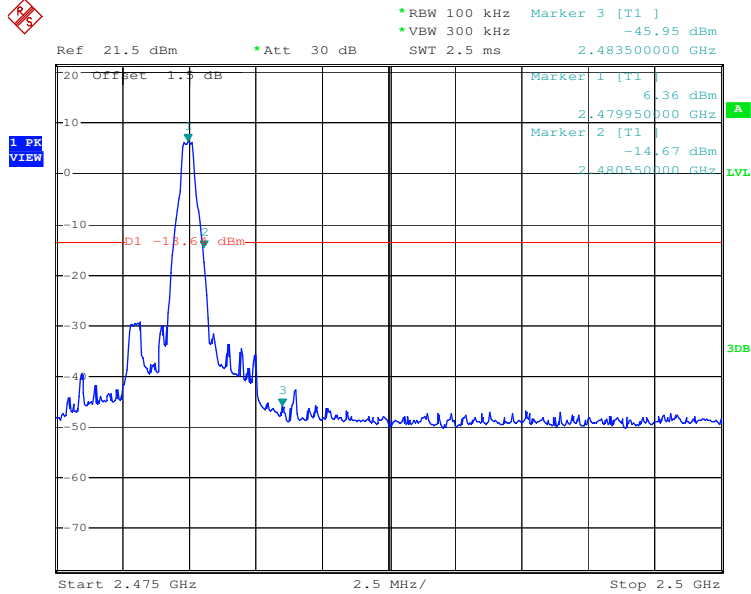


Date: 26.AUG.2010 08:10:37

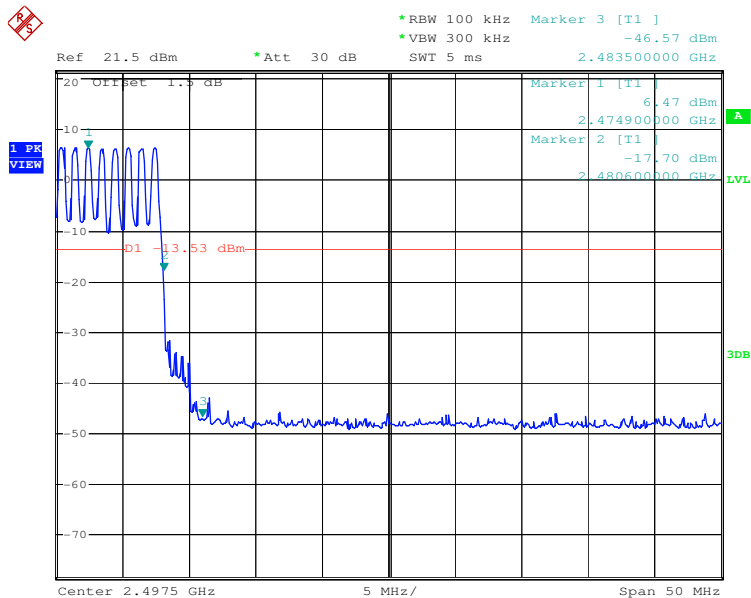
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Test mode:	GFSK	Test channel:	Highest
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Date: 26.AUG.2010 09:57:53

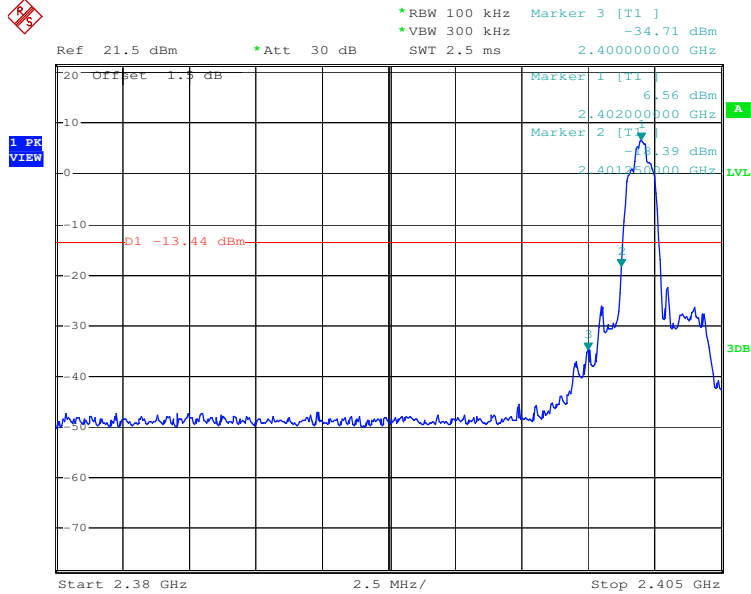


Date: 26.AUG.2010 10:04:40

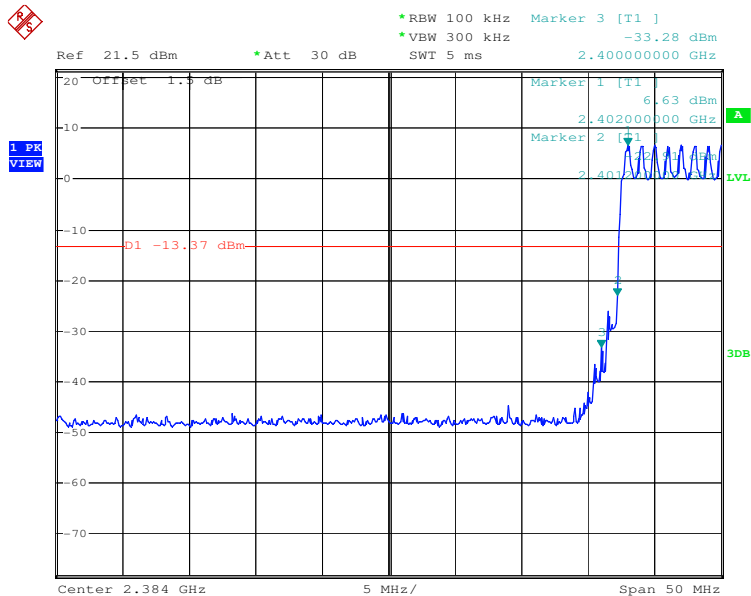
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Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 26.AUG.2010 10:25:29

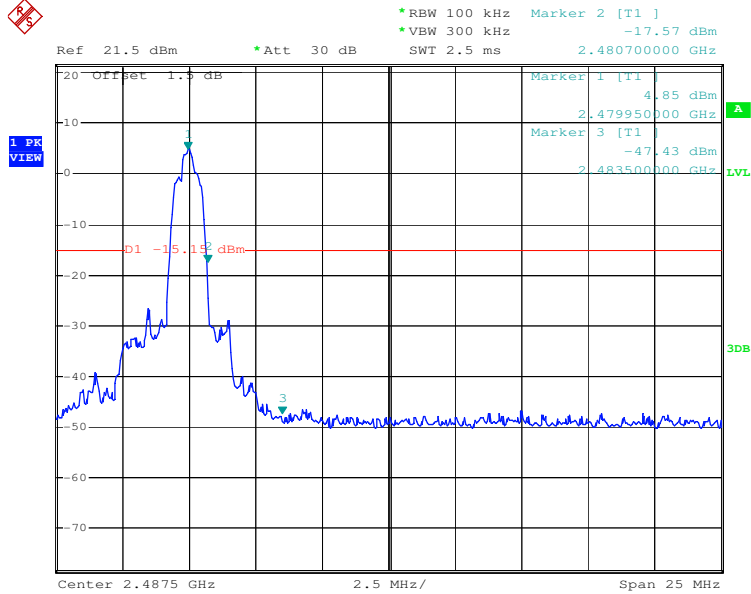


Date: 26.AUG.2010 10:31:49

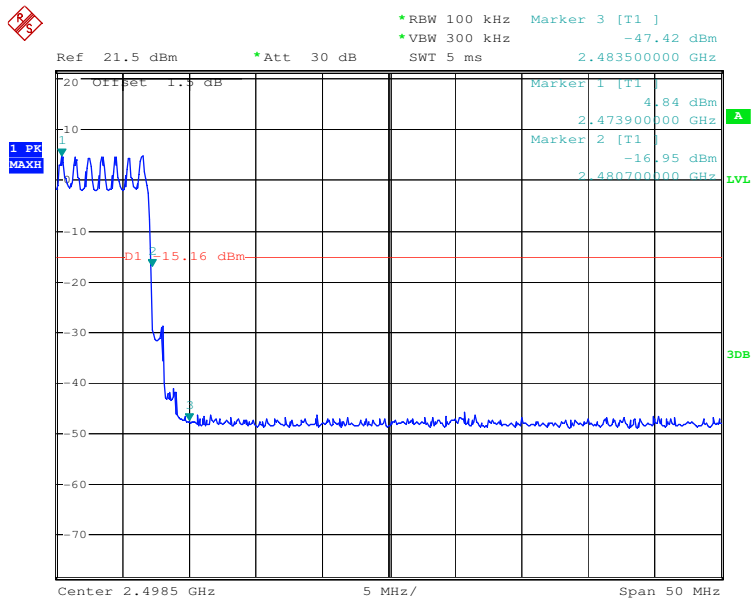
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Test mode:	Pi/4QPSK	Test channel:	Highest
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Date: 26.AUG.2010 12:17:36

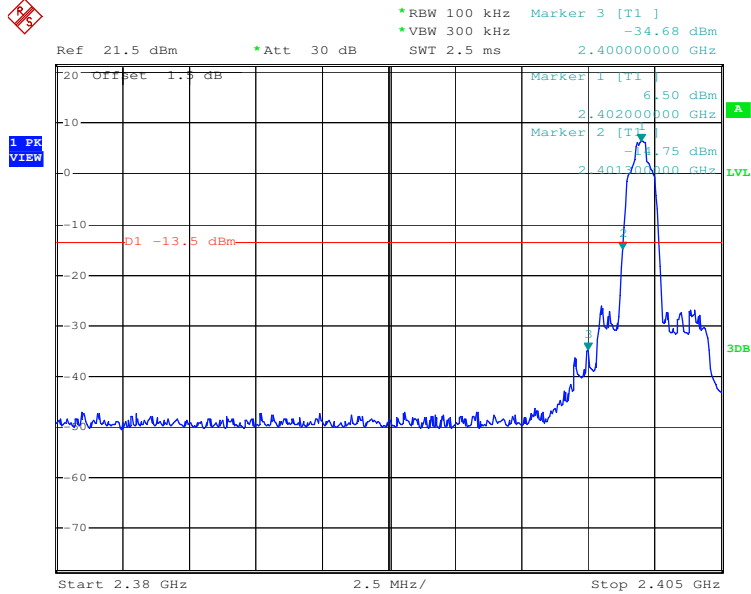


Date: 26.AUG.2010 12:21:58

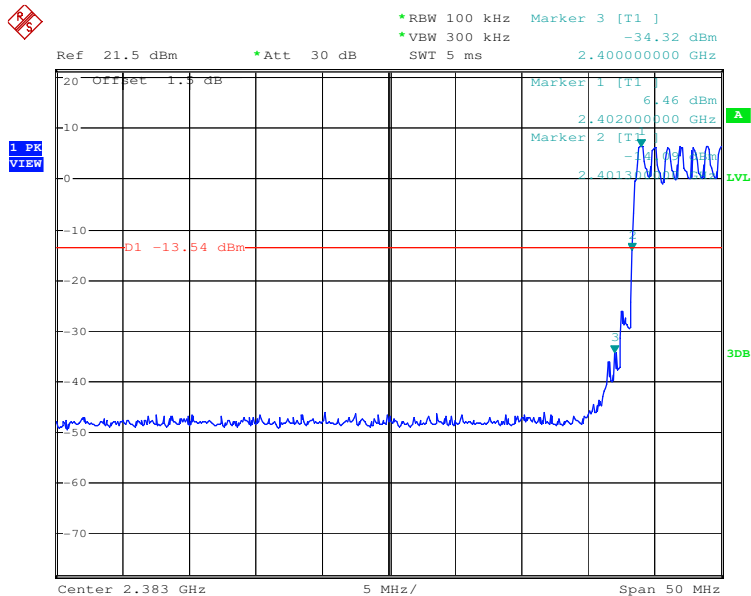
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Test mode:	8DPSK	Test channel:	Lowest
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Date: 26.AUG.2010 12:37:45

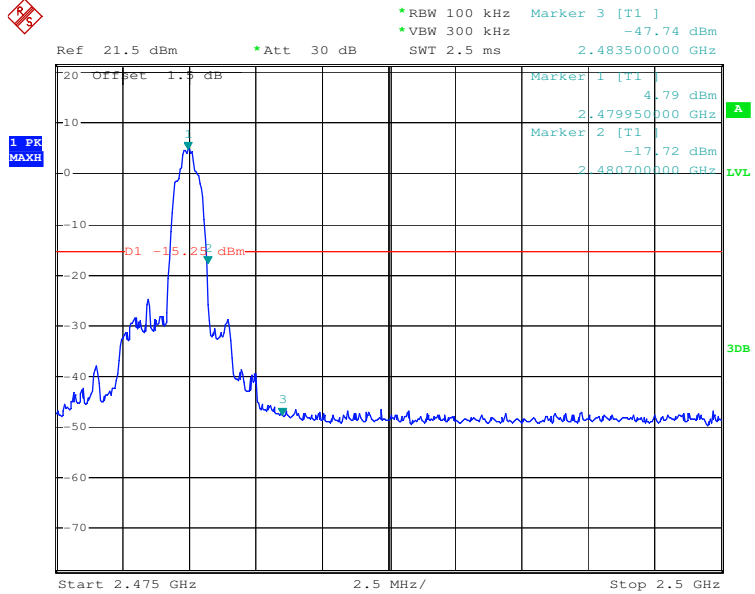


Date: 26.AUG.2010 12:42:12

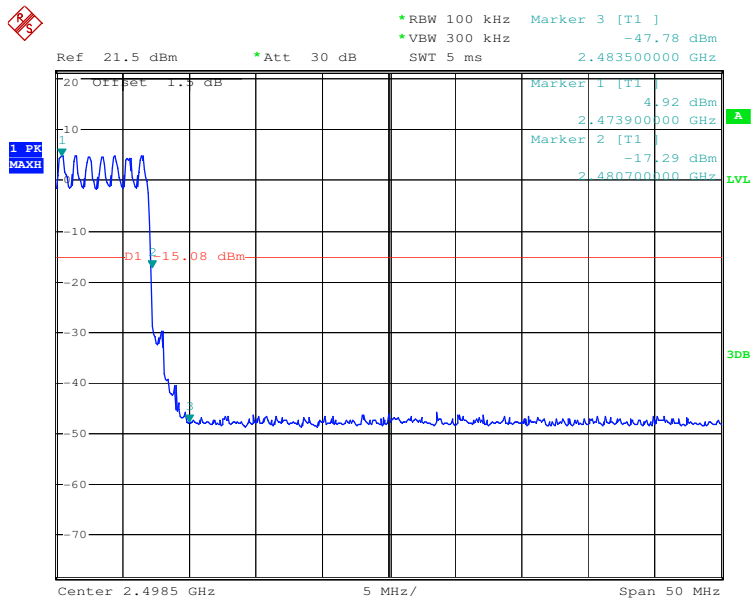
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Test mode:	8DPSK	Test channel:	Highest
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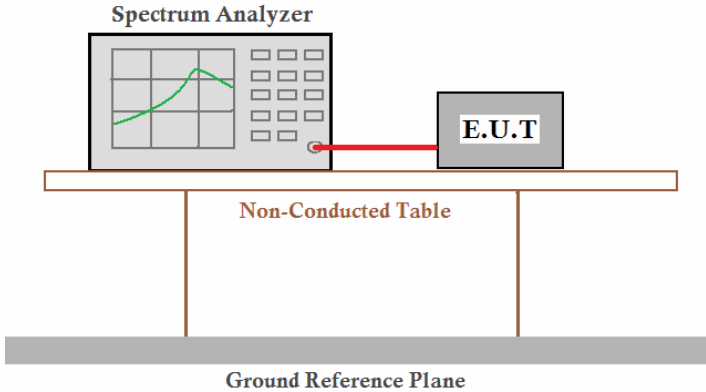
Date: 26.AUG.2010 13:23:51



Date: 26.AUG.2010 13:22:00

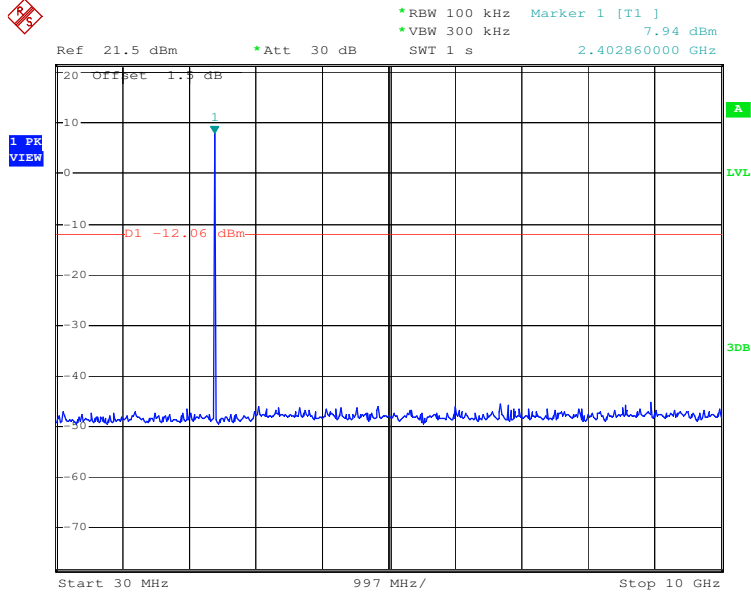
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5.9 RF Antenna Conducted spurious emissions

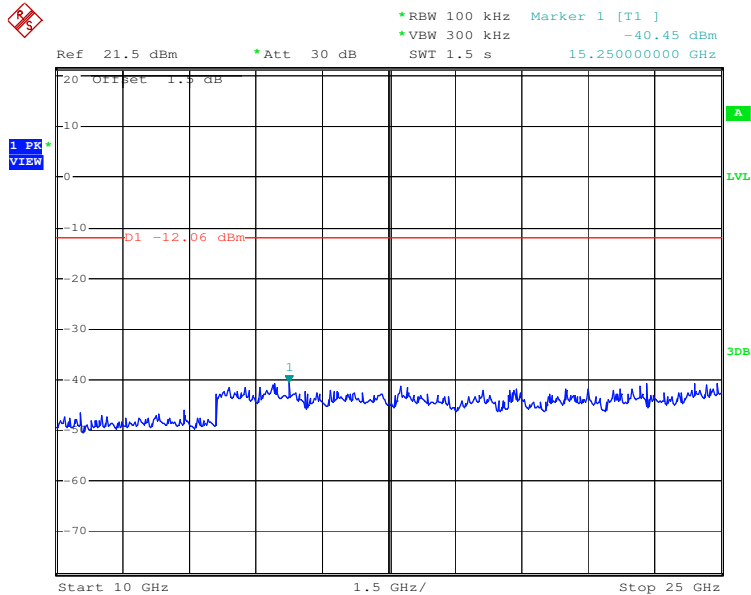
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at 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 or a radiated measurement.
Test setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed



Worse case mode:	GFSK	Test channel:	Lowest
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Date: 26.AUG.2010 08:04:15

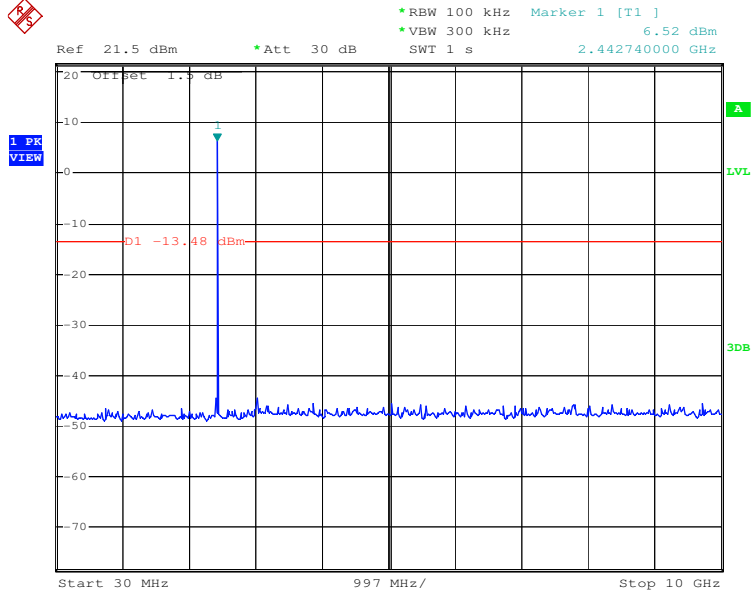


Date: 26.AUG.2010 08:05:20

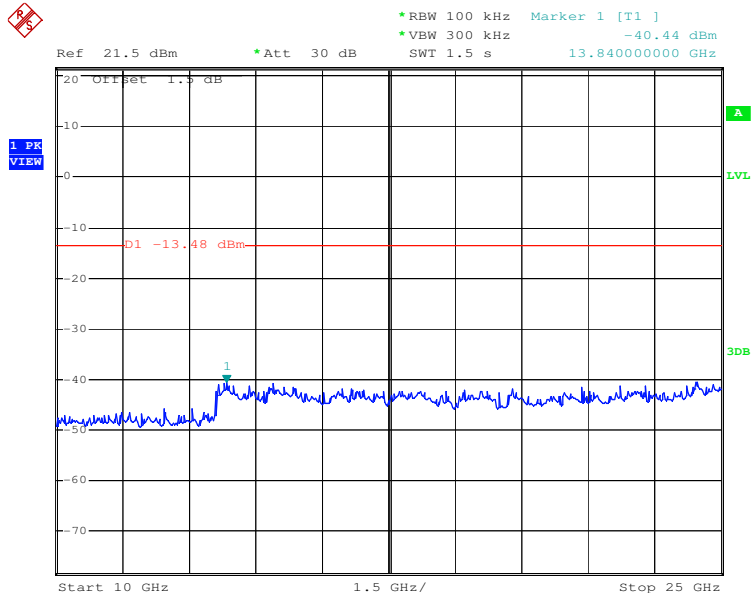
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Worse case mode:	GFSK	Test channel:	Middle
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Date: 26.AUG.2010 09:31:34

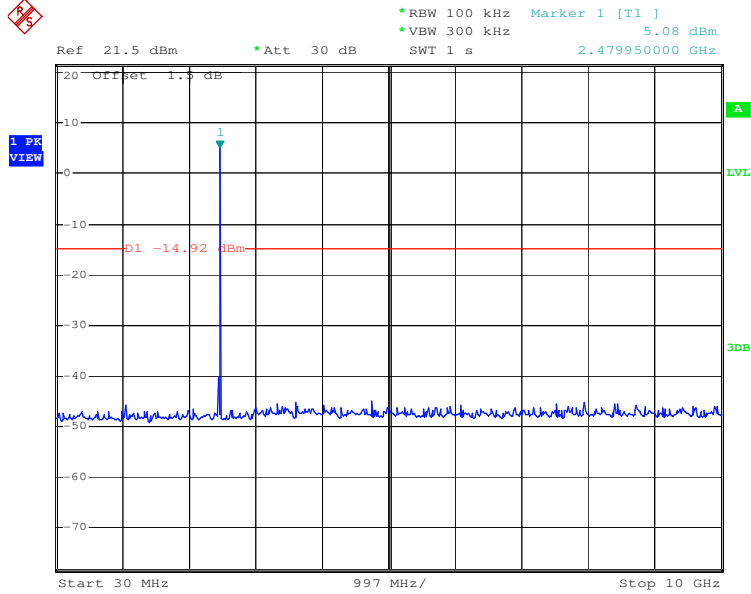


Date: 26.AUG.2010 09:32:54

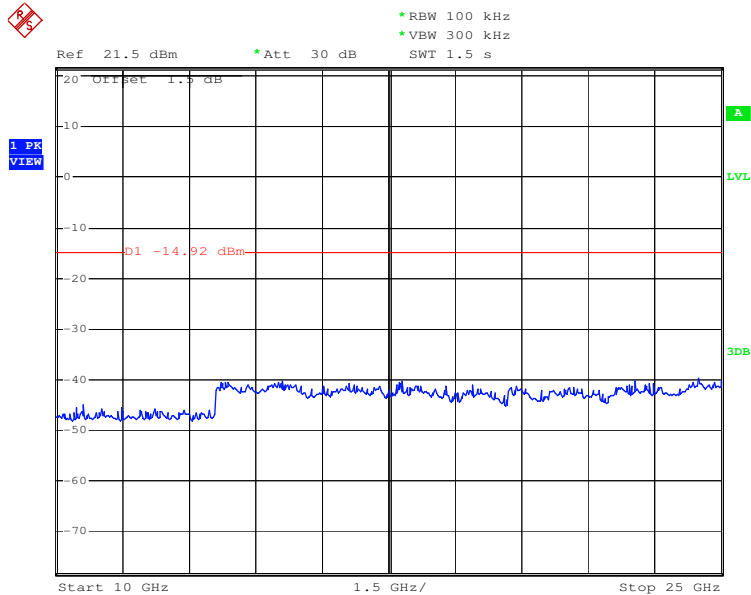
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Worse case mode:	GFSK	Test channel:	Highest
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Date: 26.AUG.2010 09:59:35

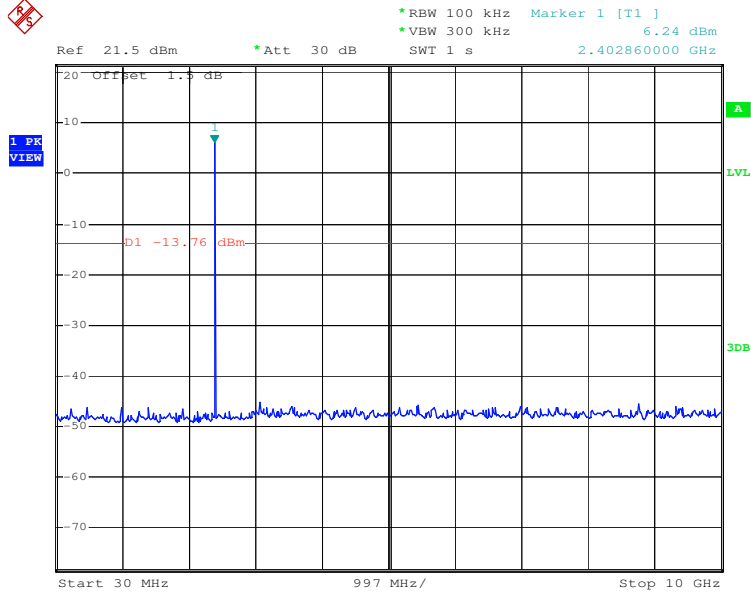


Date: 26.AUG.2010 10:01:07

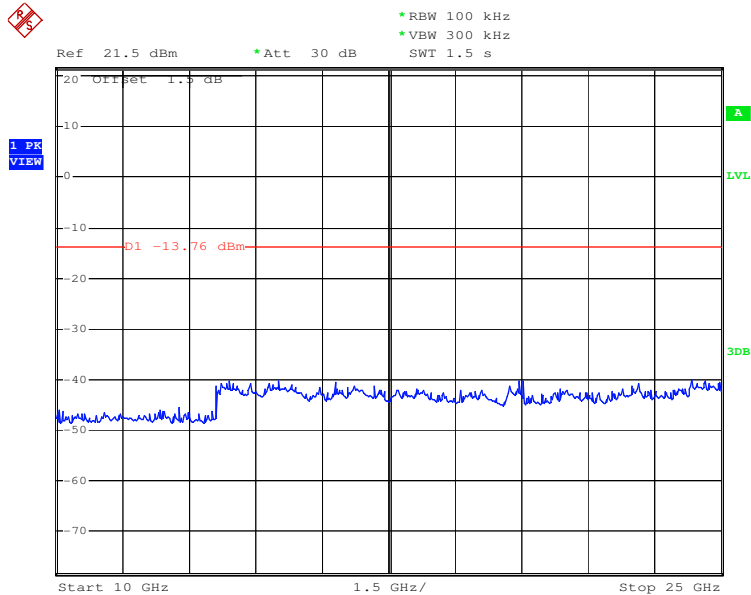
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Worse case mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 26.AUG.2010 12:10:27

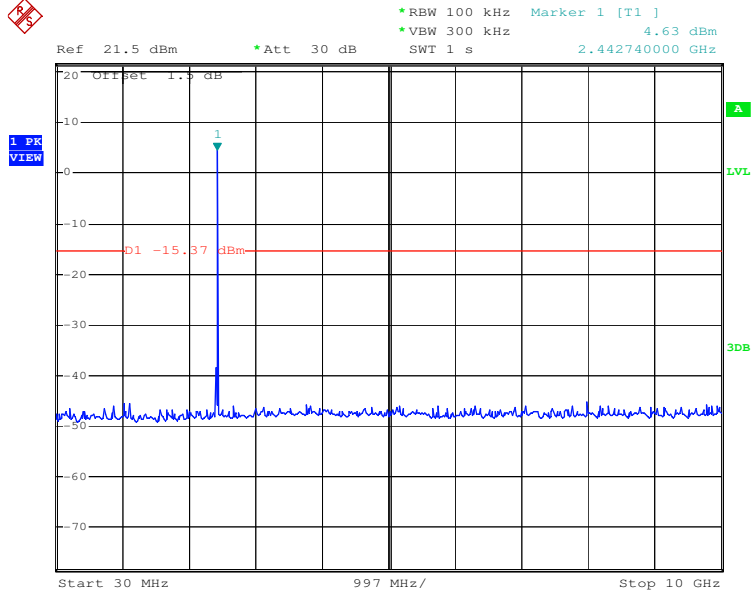


Date: 26.AUG.2010 12:10:57

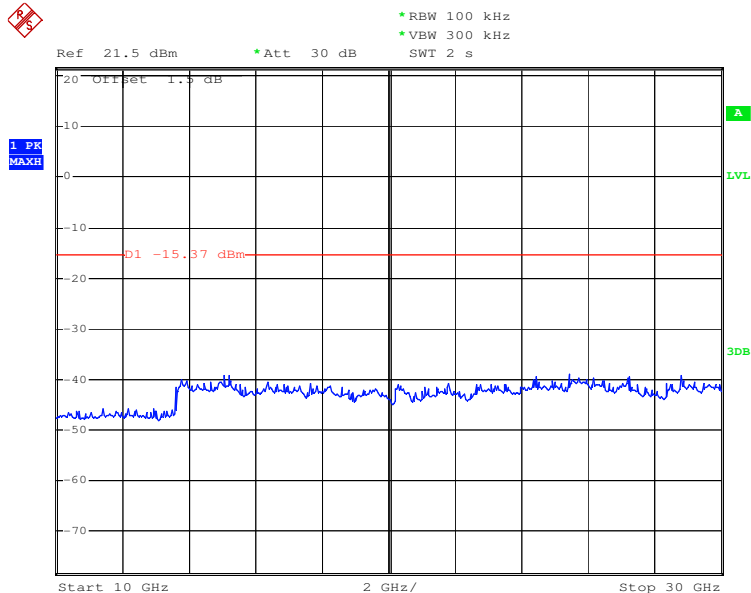
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Worse case mode:	Pi/4QPSK	Test channel:	Middle
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Date: 26.AUG.2010 10:42:49

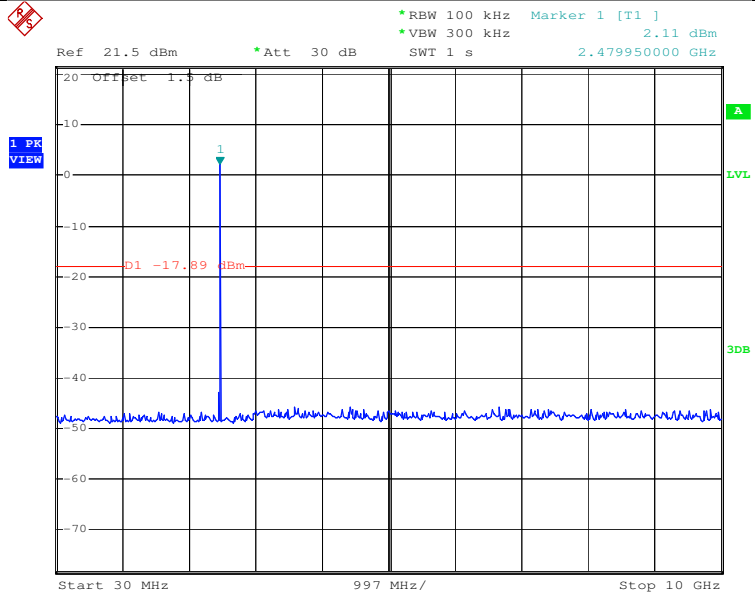


Date: 26.AUG.2010 10:43:39

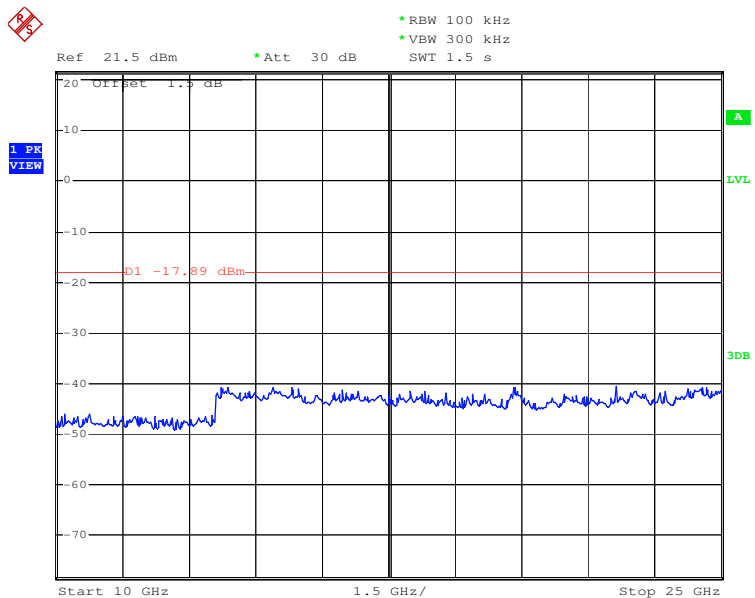
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Worse case mode:	Pi/4QPSK	Test channel:	Highest
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Date: 26.AUG.2010 12:18:50

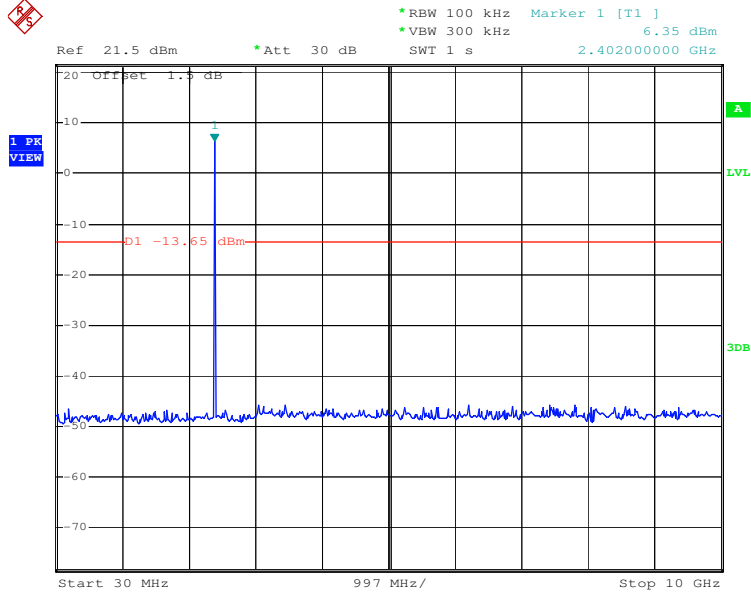


Date: 26.AUG.2010 12:19:19

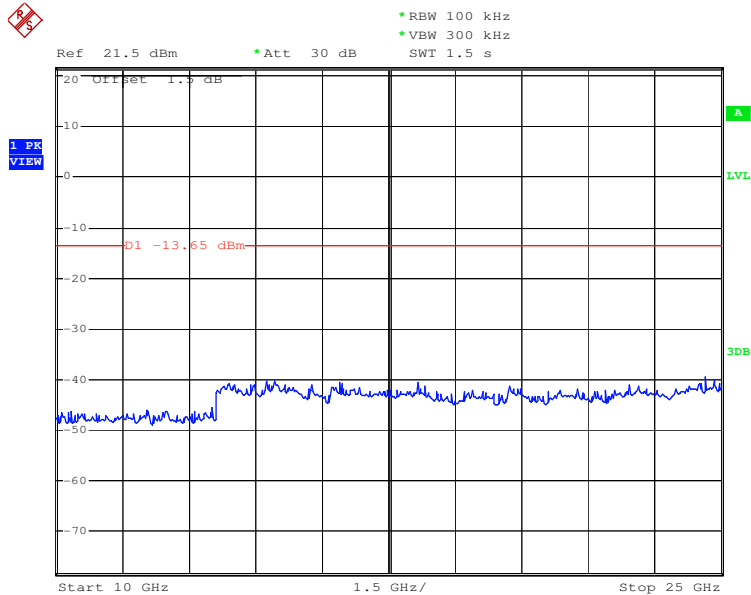
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Worse case mode:	8DPSK	Test channel:	Lowest
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Date: 26.AUG.2010 12:38:50

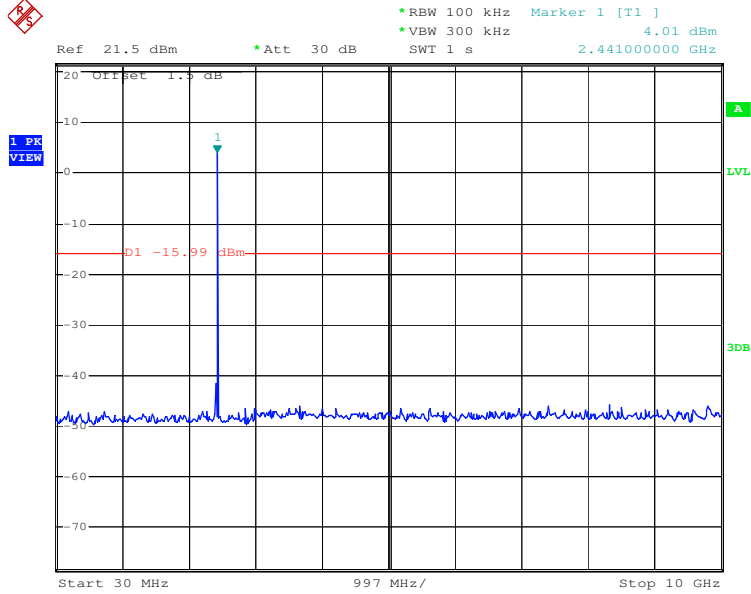


Date: 26.AUG.2010 12:39:25

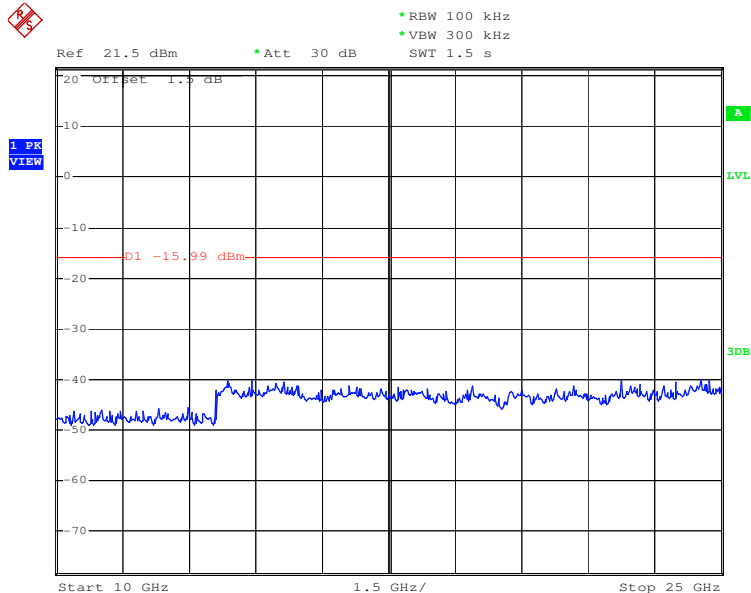
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Worse case mode:	8DPSK	Test channel:	Middle
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Date: 26.AUG.2010 12:52:26

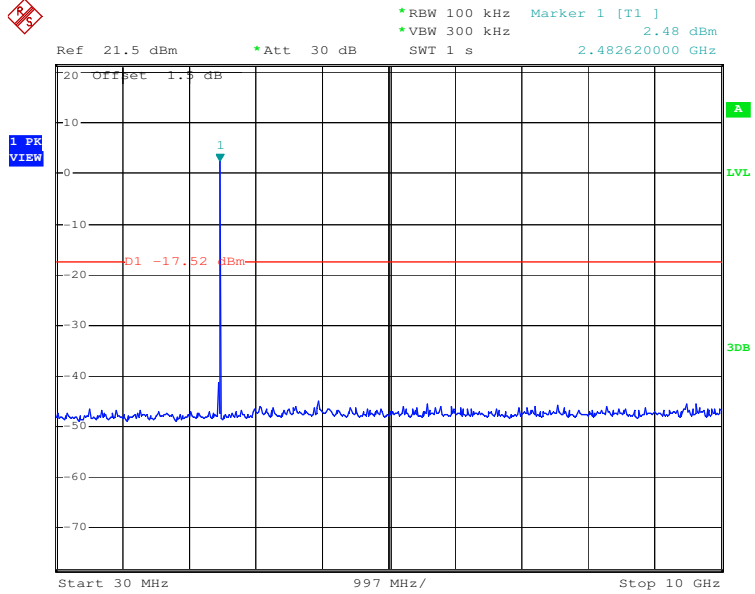


Date: 26.AUG.2010 12:52:57

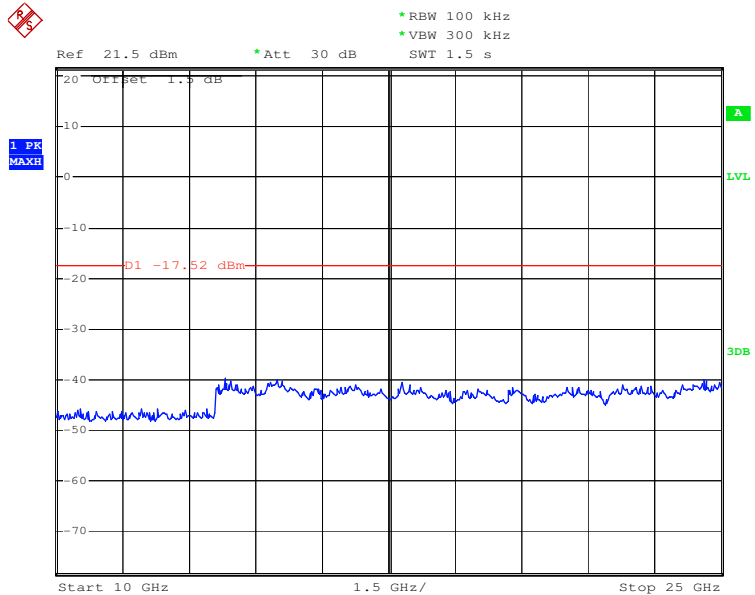
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Worse case mode:	8DPSK	Test channel:	Highest
------------------	-------	---------------	---------



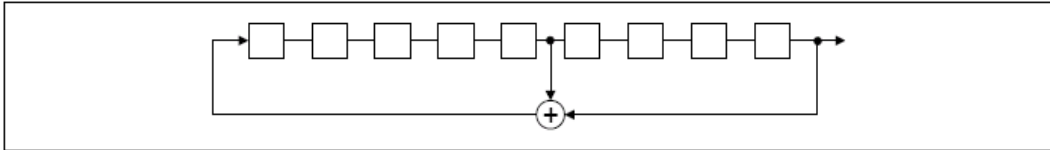
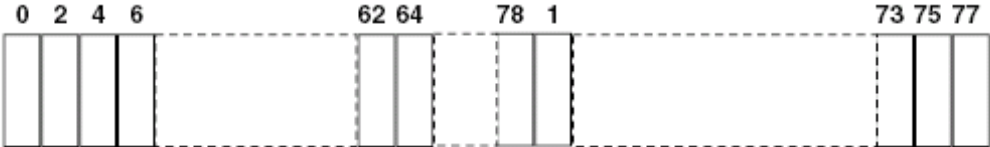
Date: 26.AUG.2010 13:18:02



Date: 26.AUG.2010 13:18:39

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5.10 Pseudorandom Frequency Hopping Sequence

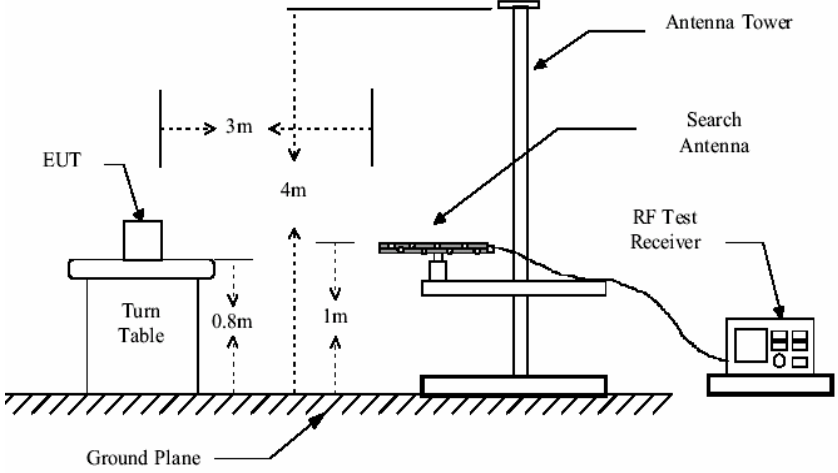
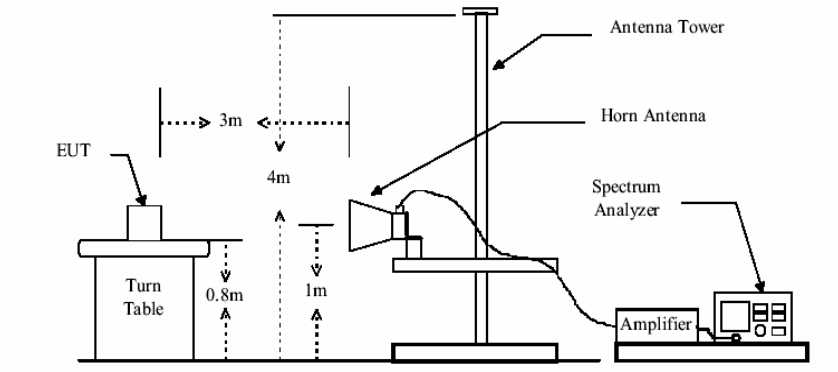
Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:
<p><i>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</i></p> <p><i>Alternatively. Frequency hopping systems 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</i></p>	
EUT Pseudorandom Frequency Hopping Sequence	
<p><i>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.</i></p> <ul style="list-style-type: none"> • Number of shift register stages: 9 • Length of pseudo-random sequence: $2^9 - 1 = 511$ bits • Longest sequence of zeros: 8 (non-inverted signal) <div style="text-align: center;">  </div> <p style="text-align: center;"><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p> <p><i>An example of Pseudorandom Frequency Hopping Sequence as follow:</i></p> <div style="text-align: center;">  </div> <p><i>Each frequency used equally on the average by each transmitter.</i></p> <p><i>The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</i></p>	

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5.11 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																							
Test Method:	ANSI C63.10: 2009																							
Test Frequency Range:	30MHz to 25GHz																							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																							
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>				Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																				
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																				
Above 1GHz	Peak	1MHz	3MHz	Peak Value																				
	Peak	1MHz	10Hz	Average Value																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>				Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																						
30MHz-88MHz	40.0	Quasi-peak Value																						
88MHz-216MHz	43.5	Quasi-peak Value																						
216MHz-960MHz	46.0	Quasi-peak Value																						
960MHz-1GHz	54.0	Quasi-peak Value																						
Above 1GHz	54.0	Average Value																						
	74.0	Peak Value																						
Test Procedure:	<ol style="list-style-type: none"> 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report. 																							
Test Instruments:	Refer to section 4.7 for details																							

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<p>Test mode:</p>	<p>Non-hopping transmitting with modulation.</p> <ol style="list-style-type: none"> 1. Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode. 2. Test the EUT in Vehicular charge, Vehicular charge + Bluetooth, PC charge, PC charge + Bluetooth and Bluetooth modes. Pre-scan were performed on Vehicular charge, Vehicular charge + Bluetooth, PC charge, PC charge + Bluetooth and Bluetooth modes, and then found the Vehicular charge + Bluetooth mode was the worst case mode.
<p>Test results:</p>	<p>Passed</p>
<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$Final\ Test\ Level = Receiver\ Reading + Antenna\ Factor + Cable\ Factor - Preamplifier\ Factor$$

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5.11.1 Radiated emission below 1GHz

Vehicular charge + Bluetooth mode

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization
62.980	0.80	7.11	28.03	45.48	25.36	40.00	-14.64	Vertical
126.030	1.27	7.77	27.63	41.10	22.51	43.50	-20.99	Vertical
198.780	1.40	10.19	27.16	33.53	17.96	43.50	-25.54	Vertical
276.380	1.80	12.85	26.81	44.51	32.35	46.00	-13.65	Vertical
382.110	2.15	16.08	27.30	33.10	24.03	46.00	-21.97	Vertical
641.100	2.79	20.56	27.48	27.33	23.20	46.00	-22.80	Vertical
62.980	0.80	7.11	28.03	54.30	34.18	40.00	-5.82	Horizontal
126.030	1.27	7.77	27.63	48.08	29.49	43.50	-14.01	Horizontal
191.020	1.39	10.11	27.20	43.03	27.33	43.50	-16.17	Horizontal
265.710	1.75	12.63	26.85	53.75	41.28	46.00	-4.72	Horizontal
281.230	1.82	13.07	26.79	52.55	40.65	46.00	-5.35	Horizontal
351.070	2.06	15.43	27.09	45.27	35.67	46.00	-10.33	Horizontal

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5.11.2 Transmitter emission above 1GHz

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization
1587.500	5.08	27.40	38.94	48.84	42.38	74.00	-31.62	Vertical
2374.750	6.23	29.93	39.19	55.27	52.24	74.00	-21.76	Vertical
4830.500	10.34	34.28	41.43	39.44	42.63	74.00	-31.37	Vertical
7239.250	13.22	37.26	40.78	37.99	47.69	74.00	-26.31	Vertical
9612.750	13.39	37.99	37.56	36.72	50.54	74.00	-23.46	Vertical
12056.750	16.77	39.12	39.13	36.97	53.73	74.00	-20.27	Vertical
1493.500	4.73	27.11	39.75	53.53	45.62	74.00	-28.38	Horizontal
2363.000	6.20	29.91	39.27	48.16	45.00	74.00	-29.00	Horizontal
4818.750	9.21	34.26	41.27	39.97	42.17	74.00	-31.83	Horizontal
7215.750	13.30	37.24	40.88	40.14	49.80	74.00	-24.20	Horizontal
9671.500	13.59	38.00	37.71	37.04	50.89	74.00	-23.11	Horizontal
12021.500	16.45	39.10	39.09	36.32	52.78	74.00	-21.22	Horizontal

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization
1587.500	5.08	27.40	38.94	34.19	27.73	54.00	-26.27	Vertical
2374.750	6.23	29.93	39.19	36.59	33.56	54.00	-20.44	Vertical
4830.500	10.34	34.28	41.43	31.46	34.65	54.00	-19.35	Vertical
7239.250	13.22	37.26	40.78	30.91	40.61	54.00	-13.39	Vertical
9612.750	13.39	37.99	37.56	28.82	42.64	54.00	-11.36	Vertical
12056.750	16.77	39.12	39.13	29.04	45.80	54.00	-8.20	Vertical
1493.500	4.73	27.11	39.75	42.68	34.77	54.00	-19.23	Horizontal
2363.000	6.20	29.91	39.27	36.43	33.27	54.00	-20.73	Horizontal
4818.750	9.21	34.26	41.27	31.47	33.67	54.00	-20.33	Horizontal
7215.750	13.30	37.24	40.88	30.91	40.57	54.00	-13.43	Horizontal
9671.500	13.59	38.00	37.71	28.41	42.29	54.00	-11.71	Horizontal
12021.500	16.45	39.10	39.09	29.22	45.68	54.00	-8.32	Horizontal

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Worse case mode:	GFSK	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Antenna polarization
1493.500	4.73	27.11	39.75	49.69	41.78	74.00	-32.22	Vertical
3749.500	7.45	32.82	39.70	45.40	45.97	74.00	-28.03	Vertical
4889.250	10.57	34.35	40.33	39.39	43.98	74.00	-30.02	Vertical
7321.500	12.91	37.31	40.40	39.34	49.16	74.00	-24.84	Vertical
9753.750	13.89	38.03	37.94	36.90	50.88	74.00	-23.12	Vertical
12233.000	17.95	39.23	39.30	38.04	55.92	74.00	-18.08	Vertical
1493.500	4.73	27.11	39.75	54.32	46.41	74.00	-27.59	Horizontal
3749.500	7.45	32.82	39.70	44.60	45.17	74.00	-28.83	Horizontal
4912.750	10.56	34.39	40.84	40.17	44.28	74.00	-29.72	Horizontal
7380.250	12.68	37.35	40.11	41.59	51.51	74.00	-22.49	Horizontal
9777.250	13.99	38.04	38.01	42.96	56.98	74.00	-17.02	Horizontal
12162.500	17.71	39.19	39.23	39.62	57.29	74.00	-16.71	Horizontal

Worse case mode:	GFSK	Test channel:	Middle	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Antenna polarization
1493.500	4.73	27.11	39.75	38.26	30.35	54.00	-23.65	Vertical
3749.500	7.45	32.82	39.70	37.16	37.73	54.00	-16.27	Vertical
4889.250	10.57	34.35	40.33	31.43	36.02	54.00	-17.98	Vertical
7321.500	12.91	37.31	40.40	31.03	40.85	54.00	-13.15	Vertical
9753.750	13.89	38.03	37.94	28.51	42.49	54.00	-11.51	Vertical
12233.000	17.95	39.23	39.30	28.78	46.66	54.00	-7.34	Vertical
1493.500	4.73	27.11	39.75	42.78	34.87	54.00	-19.13	Horizontal
3749.500	7.45	32.82	39.70	34.67	35.24	54.00	-18.76	Horizontal
4912.750	10.56	34.39	40.84	31.57	35.68	54.00	-18.32	Horizontal
7380.250	12.68	37.35	40.11	31.29	41.21	54.00	-12.79	Horizontal
9777.250	13.99	38.04	38.01	28.64	42.66	54.00	-11.34	Horizontal
12162.500	17.71	39.19	39.23	29.04	46.71	54.00	-7.29	Horizontal

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Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization
1634.500	5.10	27.54	39.21	49.68	43.11	74.00	-30.89	Vertical
3749.500	7.45	32.82	39.70	45.06	45.63	74.00	-28.37	Vertical
4936.250	10.53	34.41	40.90	40.20	44.24	74.00	-29.76	Vertical
7462.500	12.73	37.39	39.96	38.26	48.42	74.00	-25.58	Vertical
9894.750	14.21	38.07	37.85	39.65	54.08	74.00	-19.92	Vertical
12327.000	17.71	39.30	39.41	38.56	56.16	74.00	-17.84	Vertical
1493.500	4.73	27.11	39.75	53.81	46.00	74.00	-28.00	Horizontal
3749.500	7.45	32.82	39.70	45.03	45.60	74.00	-28.40	Horizontal
4959.750	10.43	34.45	41.03	39.77	43.62	74.00	-30.38	Horizontal
7462.500	12.73	37.39	39.96	39.19	49.35	74.00	-24.65	Horizontal
9918.250	14.24	38.08	37.78	38.43	52.97	74.00	-21.03	Horizontal
12362.250	17.63	39.32	39.45	37.63	55.13	74.00	-18.87	Horizontal

Worse case mode:	GFSK	Test channel:	Highest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization
1634.500	5.10	27.54	39.21	36.30	29.73	54.00	-24.27	Vertical
3749.500	7.45	32.82	39.70	35.26	35.83	54.00	-18.17	Vertical
4936.250	10.53	34.41	40.90	31.63	35.67	54.00	-18.33	Vertical
7462.500	12.73	37.39	39.96	31.01	41.17	54.00	-12.83	Vertical
9894.750	14.21	38.07	37.85	28.47	42.90	54.00	-11.10	Vertical
12327.000	17.71	39.30	39.41	28.91	46.51	54.00	-7.49	Vertical
1493.500	4.73	27.11	39.75	40.82	32.91	54.00	-21.09	Horizontal
3749.500	7.45	32.82	39.70	38.16	38.73	54.00	-15.27	Horizontal
4959.750	10.43	34.45	41.03	31.67	35.52	54.00	-18.48	Horizontal
7462.500	12.73	37.39	39.96	31.04	41.20	54.00	-12.80	Horizontal
9918.250	14.24	38.08	37.78	28.57	43.11	54.00	-10.89	Horizontal
12362.250	17.63	39.32	39.45	29.25	46.75	54.00	-7.25	Horizontal

Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

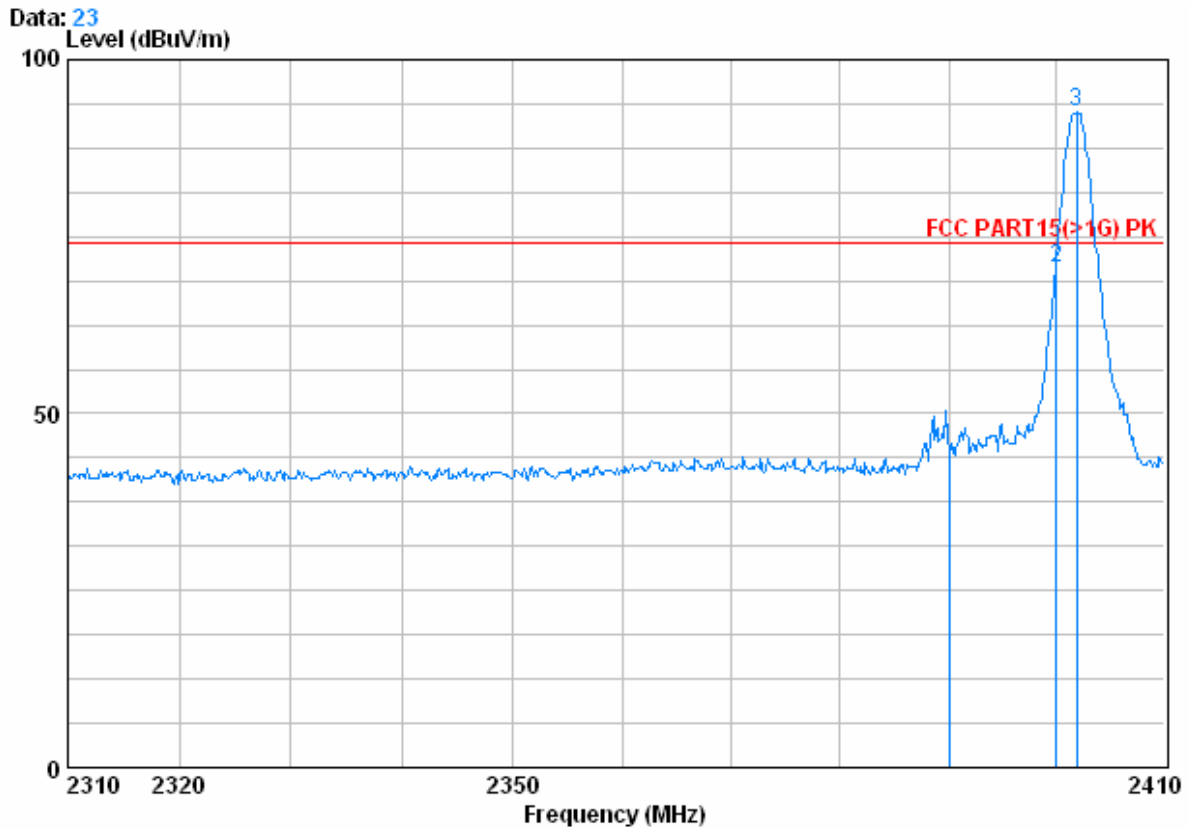
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5.11.3 Band edge (Radiated Emission)

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak
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Vertical:

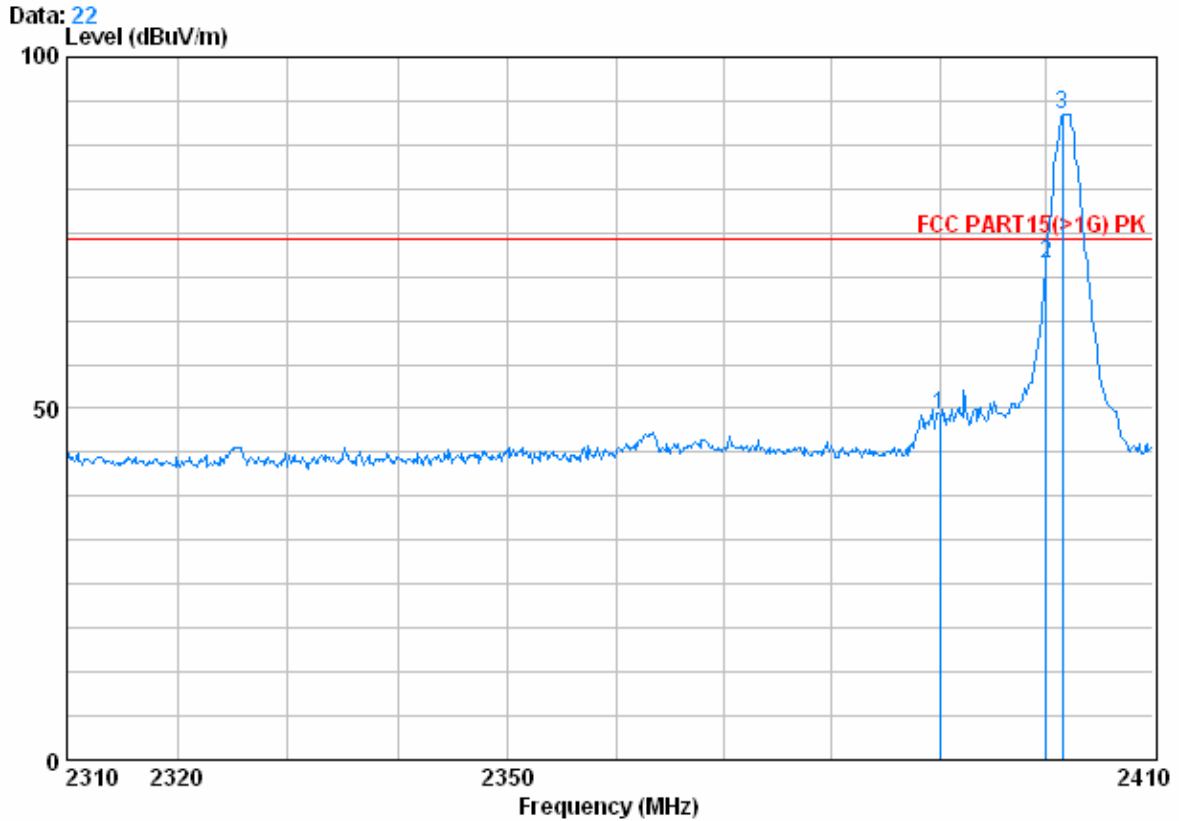


	Freq	Cable&antenna Loss	Antenna Factor	Preamp Factor	Read Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	47.91	74.00	-28.85
2	2400.000	6.34	30.03	38.87	73.15	74.00	-3.35
3 X	2401.900	6.34	30.03	38.87	95.07	74.00	18.57

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Horizontal:



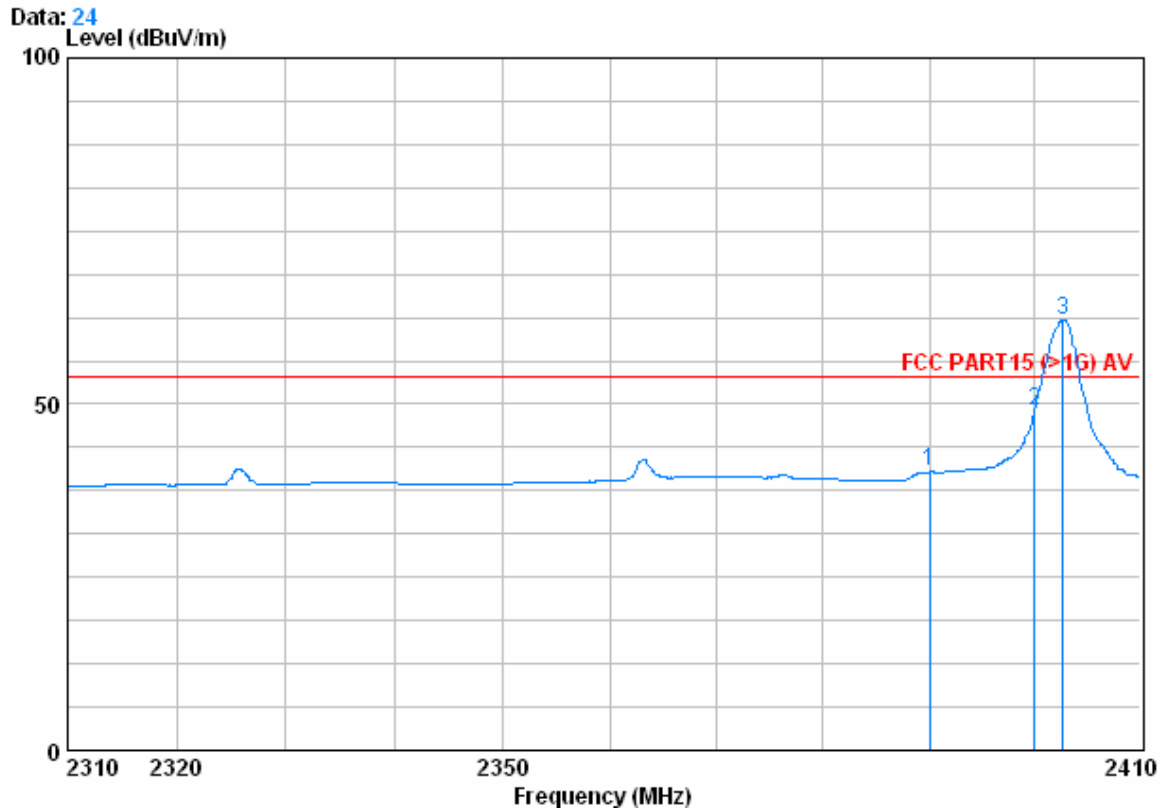
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	51.87	49.11	74.00	-24.89
2	2400.000	6.34	30.03	38.87	72.96	70.46	74.00	-3.54
3 X	2401.500	6.34	30.03	38.87	94.35	91.85	74.00	17.85

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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average
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Vertical:

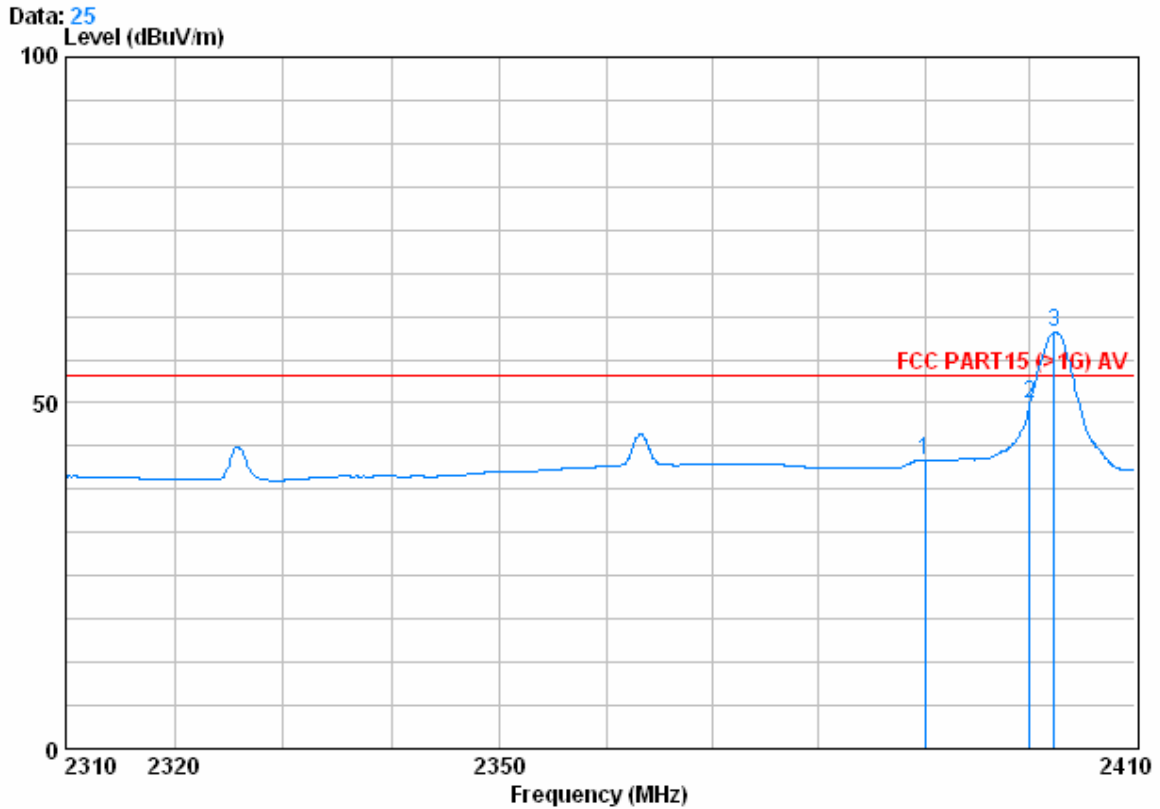


	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	42.96	54.00	-13.80
2	2400.000	6.34	30.03	38.87	51.63	54.00	-4.87
3 X	2402.700	6.34	30.03	38.87	64.58	54.00	8.08

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Horizontal:



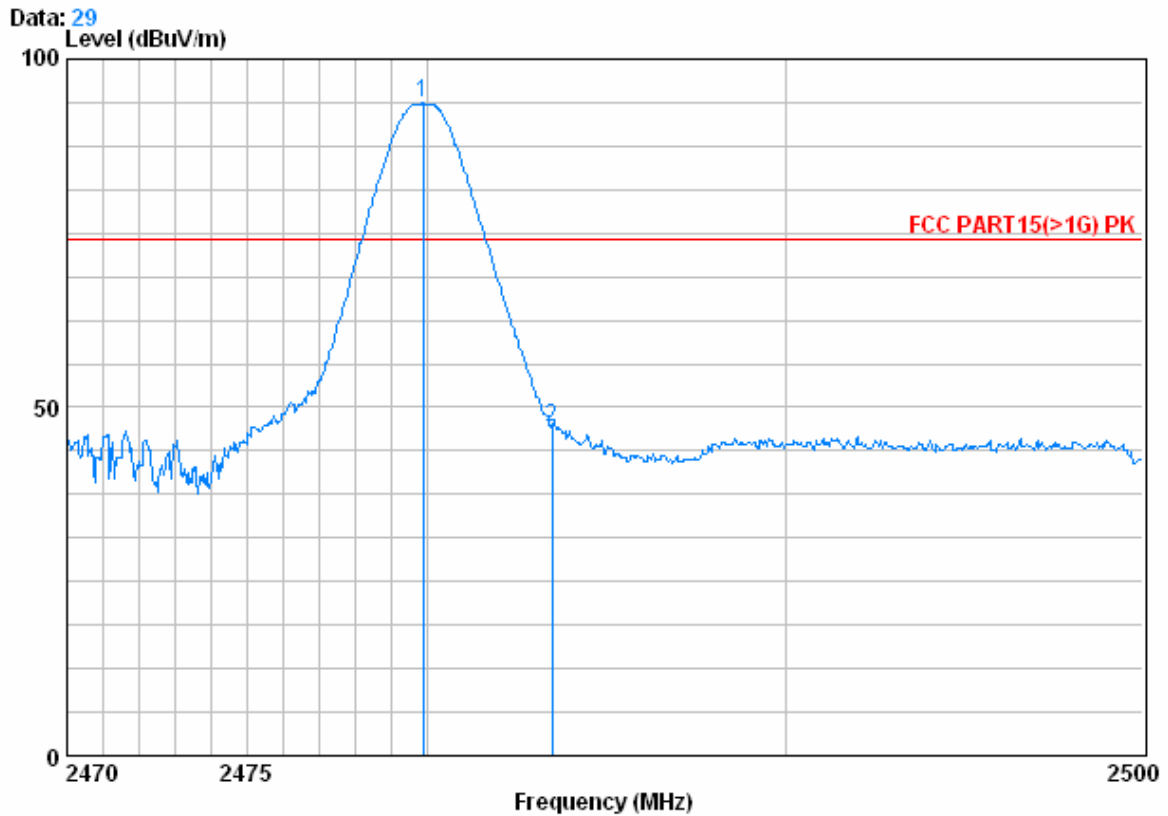
	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	44.53	41.77	54.00	-12.23
2	2400.000	6.34	30.03	38.87	52.34	49.84	54.00	-4.16
3 X	2402.300	6.34	30.03	38.87	62.68	60.18	54.00	6.18

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
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Vertical:

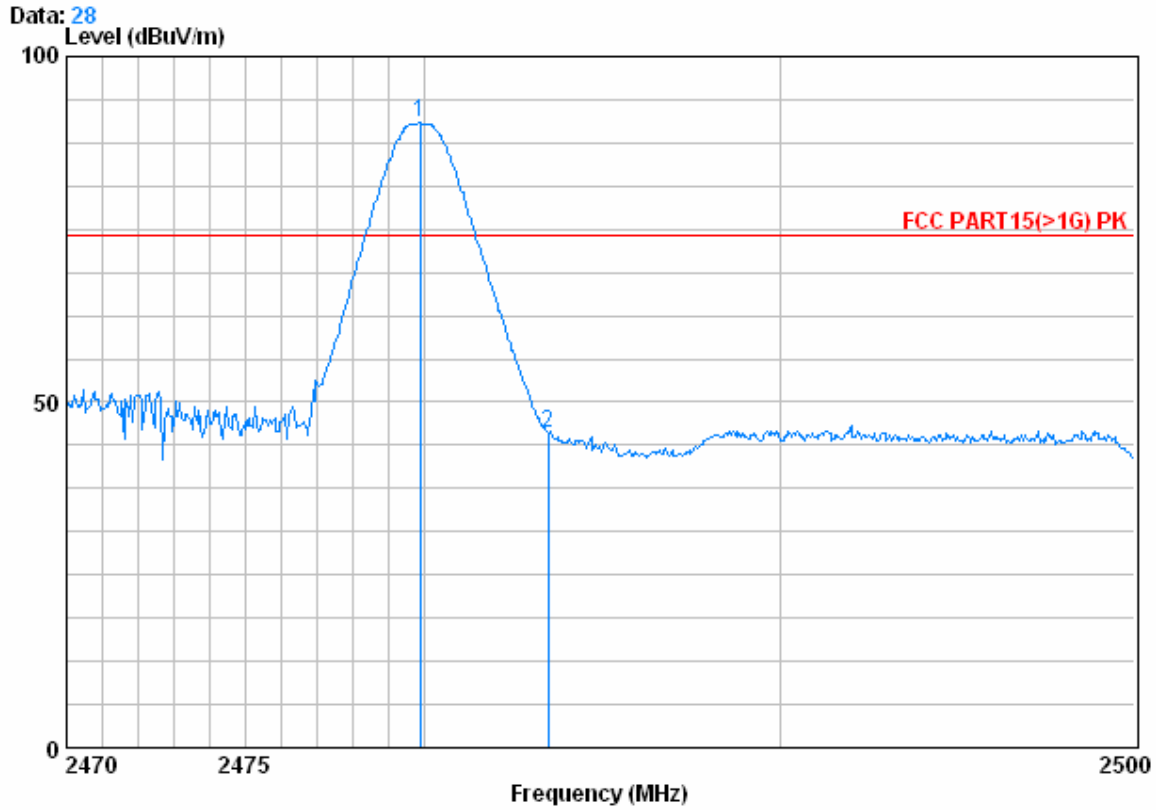


	Freq	Cable&antenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2479.900	6.45	30.30	39.72	96.59	93.61	74.00	19.61
2	2483.500	6.22	30.32	39.53	50.16	47.18	74.00	-26.82

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Horizontal:



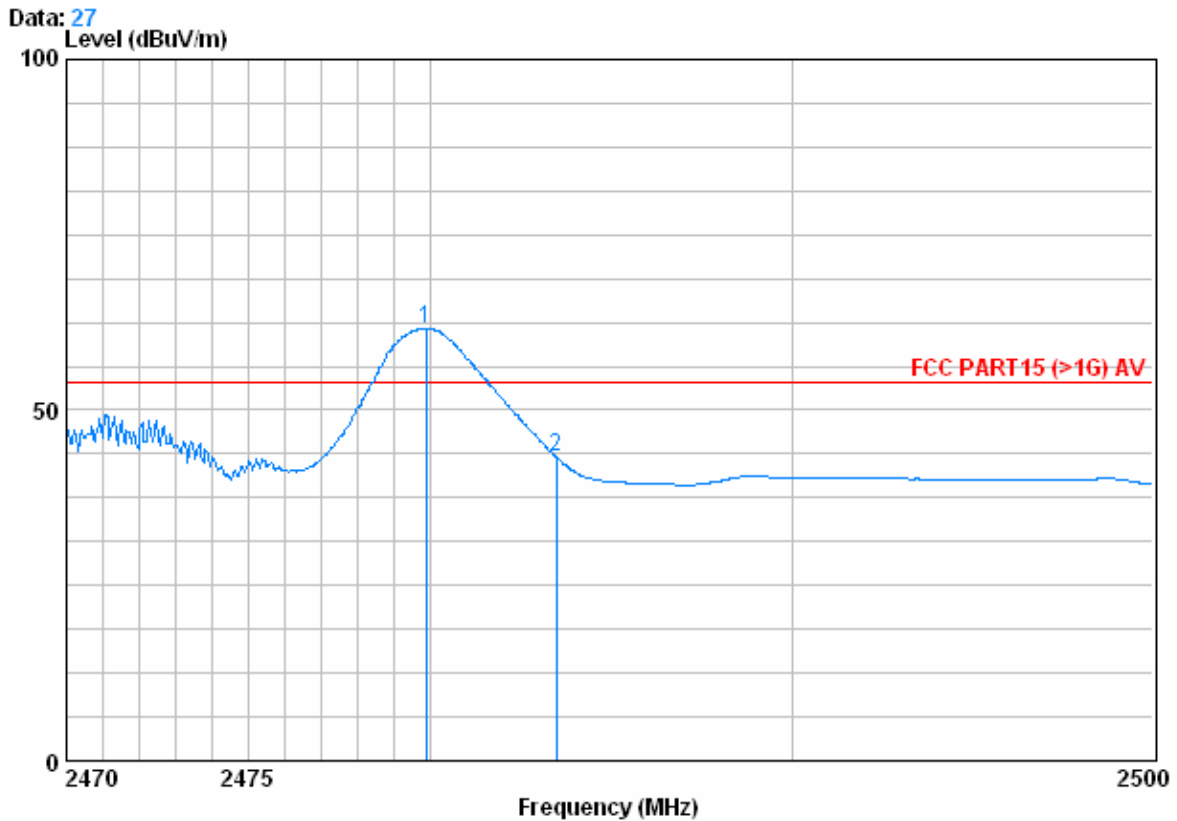
		CableAntenna	Preamp	Read	Limit	Over			
	Freq	Loss	Factor	Level	Line	Limit			
	MHz	dB	dB/m	dB	dBuV	dBuV/m			
1	X	2479.900	6.45	30.30	39.72	93.33	90.36	74.00	16.36
2		2483.500	6.22	30.32	39.53	48.46	45.47	74.00	-28.53

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Average
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Vertical:

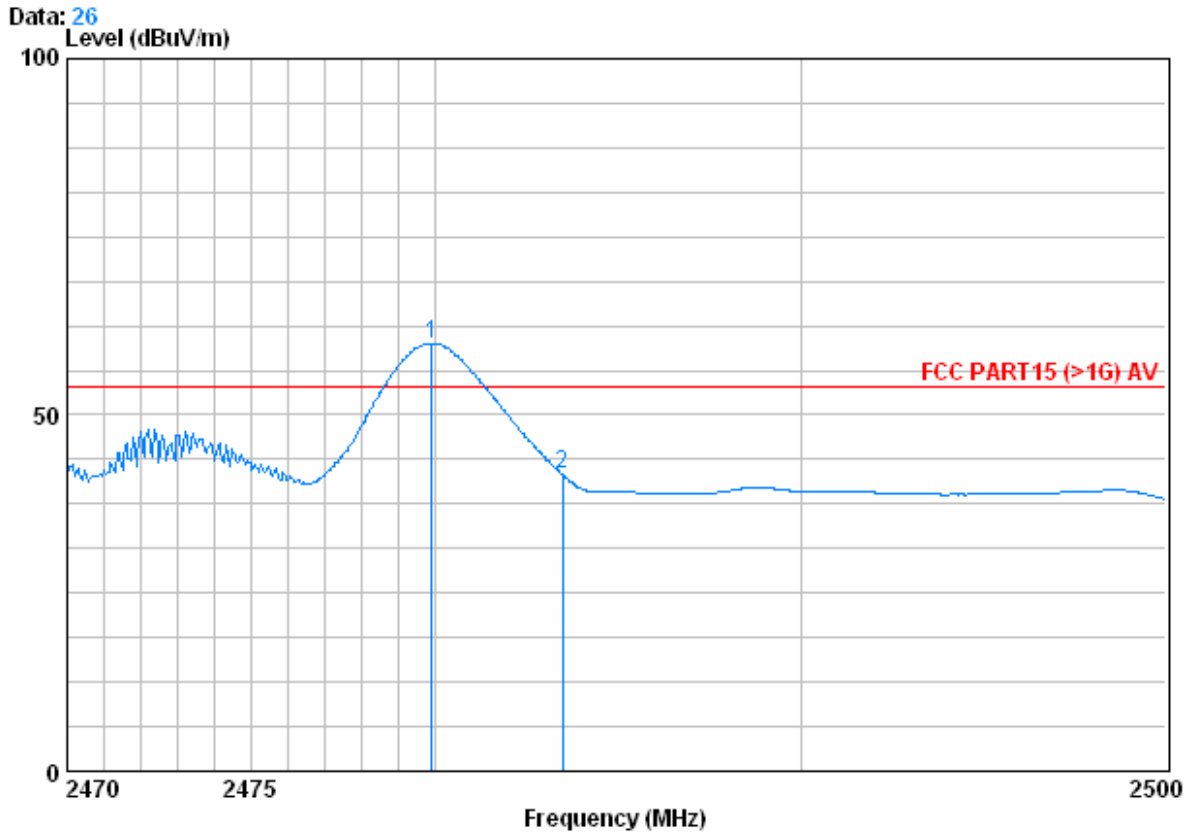


		Cable	Antenna	Preamp	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 X	2479.900	6.45	30.30	39.72	64.60	54.00	7.62
2	2483.500	6.22	30.32	39.53	46.30	54.00	-10.69

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Horizontal:



	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2479.930	6.45	30.30	39.72	63.05	60.08	54.00	6.08
2	2483.500	6.22	30.32	39.53	44.57	41.58	54.00	-12.42

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