



Test Report

Product Name : PLYR 2
Model No. : SMPLFY-207, SMPLFY-205, SMPLFY-280
FCC ID. : Y22-SK20120002

Applicant : Skullcandy
Address : 1441 W. Ute Blvd Suite 250, Park City, UT 84098, U.S.A.

Date of Receipt : 2012/09/12
Issued Date : 2012/10/02
Report No. : 129270R-RFUSP42V01-A
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : 2012/10/02


Report No. : 129270R-RFUSP42V01-A





Product Name : PLYR 2
Applicant : Skullcandy
Address : 1441 W. Ute Blvd Suite 250, Park City, UT 84098, U.S.A.
Manufacturer : Merry Electronics (Shenzhen) Co., Ltd.
Model No. : SMPLFY-207, SMPLFY-205, SMPLFY-280
FCC ID. : Y22-SK20120002
EUT Voltage : DC 3.7V (Power by Battery)
DC 5V (Power by PC)
Trade Name : SKULLCANDY
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2011
Test Result : Complied

The test results relate only to the samples tested.

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Documented By : 
(Demi Chang / Engineering Adm. Specialist)

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(Roy Wang / Manager)

Laboratory Information

We, **Quietek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	:	TAF, Accreditation Number: 1313
Germany	:	TUV Rheinland, Certificate No.: 10011438-2-2010
USA	:	FCC, Registration Number: 365520
Canada	:	IC, Submission No: 150981

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :

<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	PLYR 2
Model No.	SMPLFY-207, SMPLFY-205, SMPLFY-280
Trade Name	SKULLCANDY
Frequency Range	2403.35-2477.35MHz
Type of Modulation	pi/4 - DQPSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Number of Channels	38
Channel Control	Auto

Component	
USB-to-USB Mini 'B' Cable	Shielded, 1m
2.5mm-to-2.5mm Xbox Live Controller Cable	Shielded, 1m

Working Frequency of Each Channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01	2403.35 MHz	Channel 14	2429.35 MHz	Channel 27	2455.35 MHz
Channel 02	2405.35 MHz	Channel 15	2431.35 MHz	Channel 28	2457.35 MHz
Channel 03	2407.35 MHz	Channel 16	2433.35 MHz	Channel 29	2459.35 MHz
Channel 04	2409.35 MHz	Channel 17	2435.35 MHz	Channel 30	2461.35 MHz
Channel 05	2411.35 MHz	Channel 18	2437.35 MHz	Channel 31	2463.35 MHz
Channel 06	2413.35 MHz	Channel 19	2439.35 MHz	Channel 32	2465.35 MHz
Channel 07	2415.35 MHz	Channel 20	2441.35 MHz	Channel 33	2467.35 MHz
Channel 08	2417.35 MHz	Channel 21	2443.35 MHz	Channel 34	2469.35 MHz
Channel 09	2419.35 MHz	Channel 22	2445.35 MHz	Channel 35	2471.35 MHz
Channel 10	2421.35 MHz	Channel 23	2447.35 MHz	Channel 36	2473.35 MHz
Channel 11	2423.35 MHz	Channel 24	2449.35 MHz	Channel 37	2475.35 MHz
Channel 12	2425.35 MHz	Channel 25	2451.35 MHz	Channel 38	2477.35 MHz
Channel 13	2427.35 MHz	Channel 26	2453.35 MHz		

Note:

1. This device is a PLYR 2 included a 2.4GHz transmitting function, and 2.4GHz receiving function.
2. The PLYR 2 has three models. The different of the each model is color and shown as below:

Model Name	Description
SMPLFY-207	BLACK/YELLOW
SMPLFY-205	WHITE
SMPLFY-280	TEAL/NAVY

3. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
4. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 129270R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Transmit-Headset
----	--------------------------

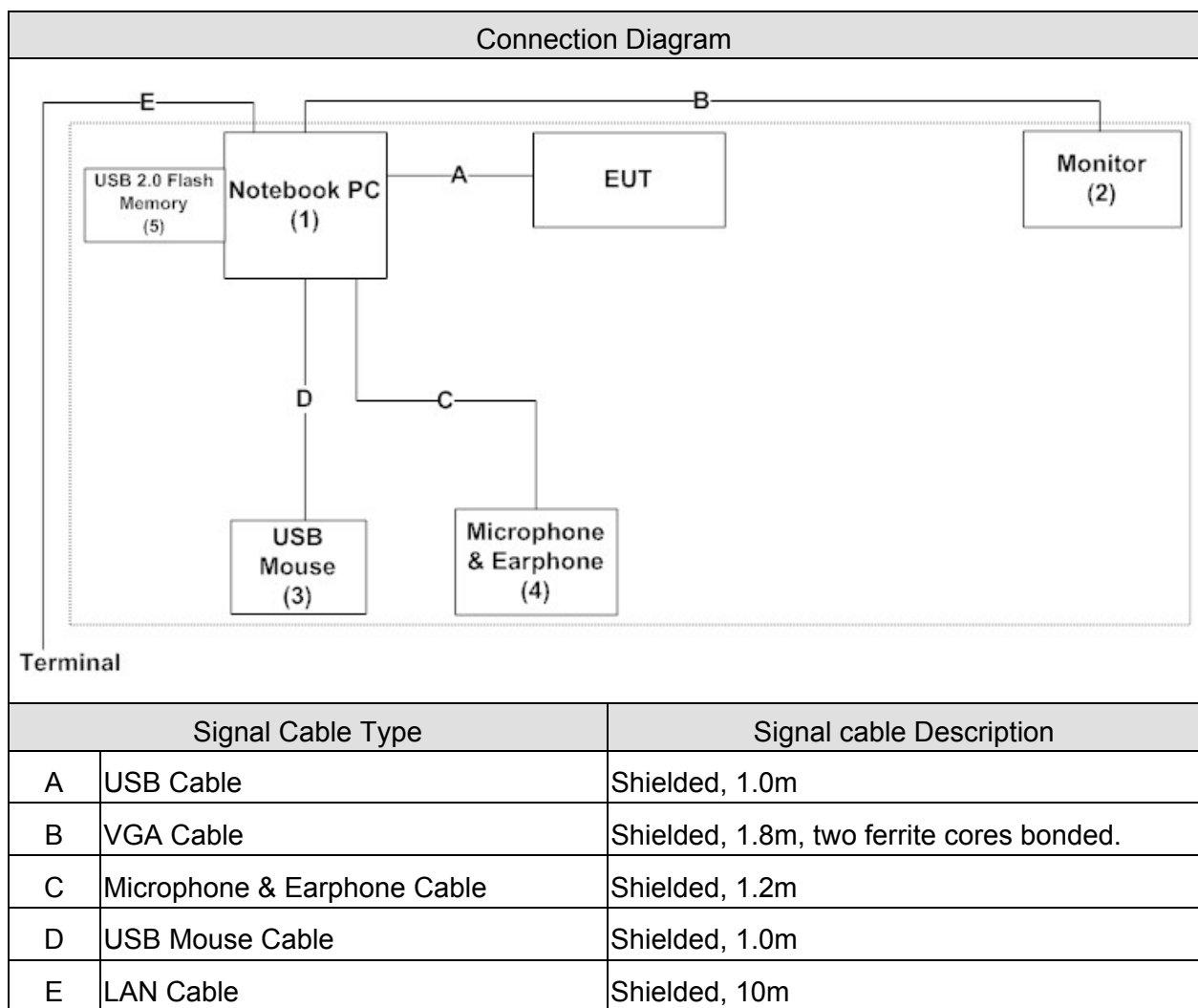
Test Items	Channel	Result
Conducted Emission	1/ 20/ 38	Complies
Peak Power Output	1/ 20/ 38	Complies
Radiated Emission (Under 1GHz)	20	Complies
Radiated Emission (Above 1GHz)	1/ 20/ 38	Complies
RF antenna conducted test	1/ 38	Complies
Radiated Emission Band Edge	1/ 38	Complies
Occupied Bandwidth	1/ 20/ 38	Complies
Power Density	1/ 20/ 38	Complies

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	ACER	PAV70	LUSEW0D0371105 FE221601	DoC	Non-Shielded, 2.5m a ferrite core bonded
2 Monitor	CHI MEI	A170E1-09	3UC120955RA0033	DoC	Non-Shielded, 1.8m
3 USB Mouse	Logitech	M-UV83	LZE35150261	DoC	--
4 Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--
5 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute the VMldev V1.1.6.38 on the EUT.
3	Configure the test mode, and the test channel
4	Press “Start TX” to start the continuous transmitting.
5	Verify that the EUT works properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test (DSSS)	15 - 35	24
Humidity (%RH)		25 - 75	49
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

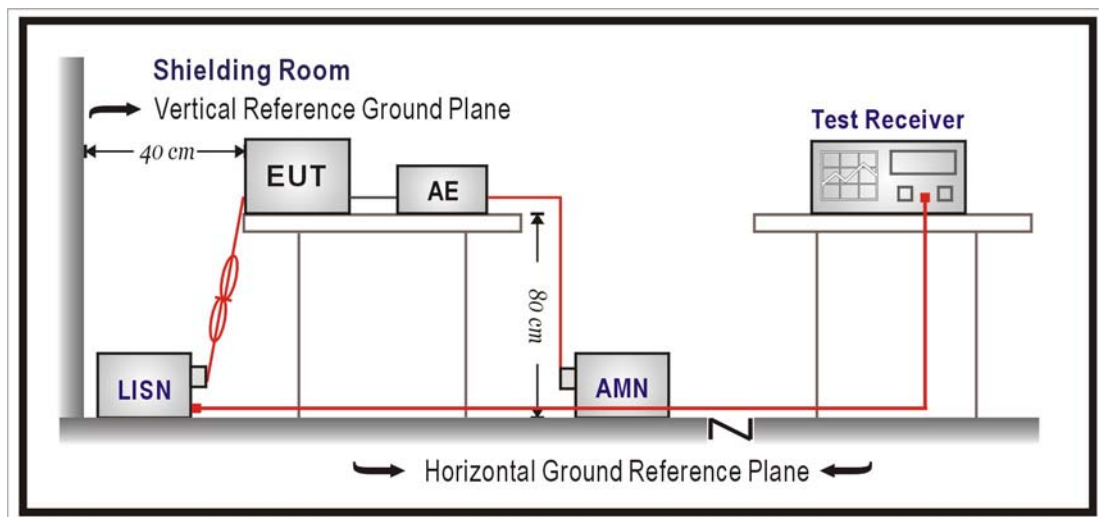
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal.
LISN	R&S	ENV216	100096	2013/08/12
LISN	R&S	ESH3-Z5	836679/022	2013/02/06
Test Receiver	R&S	ESCS 30	825442/017	2013/01/01

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

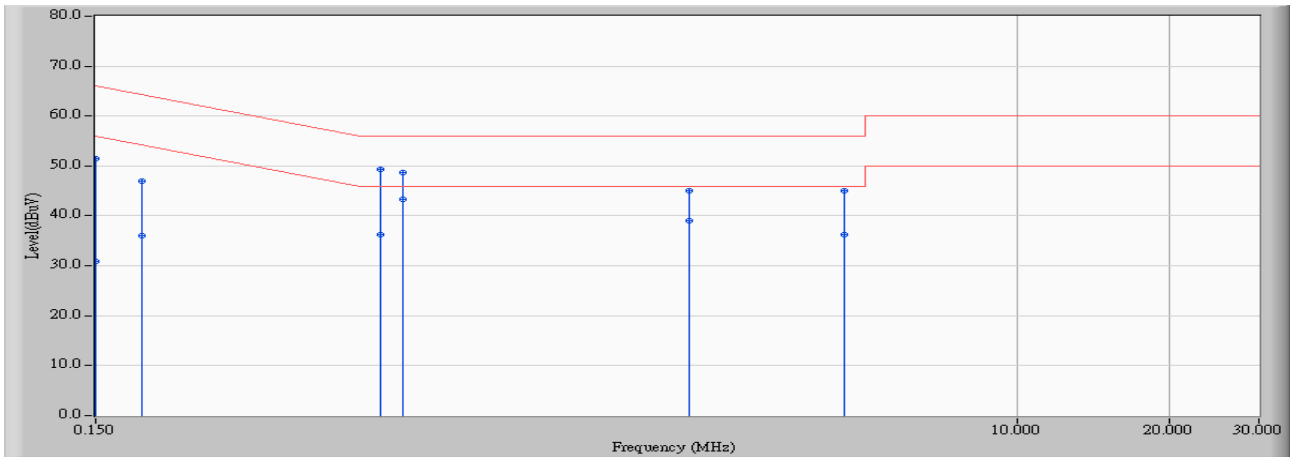
According to FCC Part 15 Subpart C Paragraph 15.207: 2011

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2012/09/24 - 13:35
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line1	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2441.35MHz_client

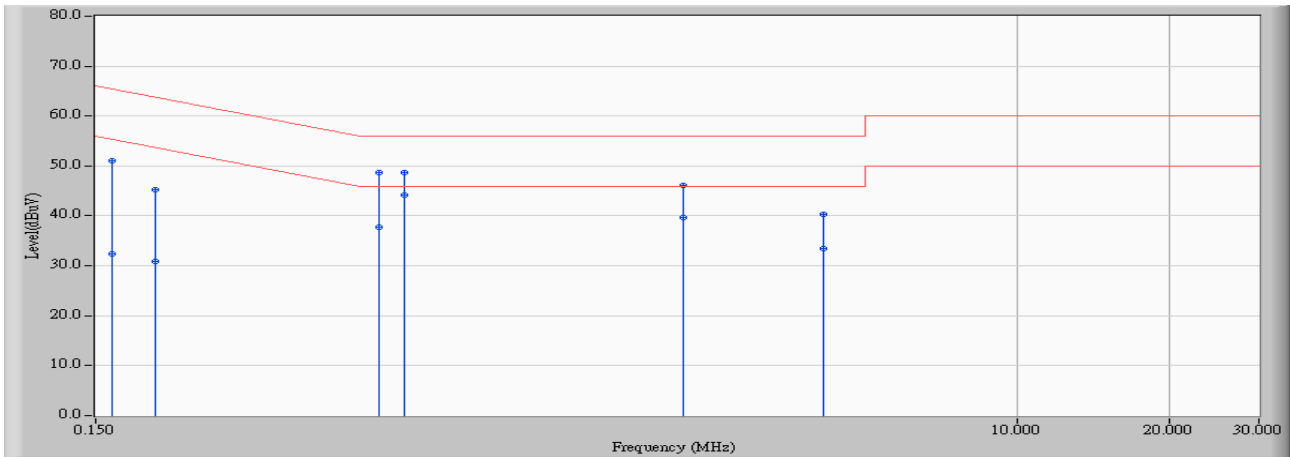


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.150	9.654	41.840	51.494	-14.506	66.000	QUASPEAK
2	0.150	9.654	21.230	30.884	-25.116	56.000	AVERAGE
3	0.185	9.656	37.380	47.036	-17.215	64.251	QUASPEAK
4	0.185	9.656	26.330	35.986	-18.265	54.251	AVERAGE
5	0.548	9.709	39.700	49.409	-6.591	56.000	QUASPEAK
6	0.548	9.709	26.630	36.339	-9.661	46.000	AVERAGE
7	0.609	9.718	39.010	48.729	-7.271	56.000	QUASPEAK
8	*	9.718	33.590	43.309	-2.691	46.000	AVERAGE
9	2.240	9.940	35.050	44.990	-11.010	56.000	QUASPEAK
10	2.240	9.940	29.160	39.100	-6.900	46.000	AVERAGE
11	4.548	10.038	34.910	44.948	-11.052	56.000	QUASPEAK
12	4.548	10.038	26.240	36.278	-9.722	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR3	Time : 2012/09/24 - 13:38
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line2	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2441.35MHz_client



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.162	9.666	41.310	50.975	-14.400	65.375	QUASPEAK
2	0.162	9.666	22.640	32.305	-23.070	55.375	AVERAGE
3	0.197	9.668	35.640	45.307	-18.434	63.741	QUASPEAK
4	0.197	9.668	21.200	30.867	-22.874	53.741	AVERAGE
5	0.545	9.716	38.900	48.616	-7.384	56.000	QUASPEAK
6	0.545	9.716	28.020	37.736	-8.264	46.000	AVERAGE
7	0.611	9.725	38.930	48.655	-7.345	56.000	QUASPEAK
8	*	9.725	34.360	44.085	-1.915	46.000	AVERAGE
9	2.173	9.939	36.190	46.129	-9.871	56.000	QUASPEAK
10	2.173	9.939	29.800	39.739	-6.261	46.000	AVERAGE
11	4.119	10.040	30.240	40.280	-15.720	56.000	QUASPEAK
12	4.119	10.040	23.490	33.530	-12.470	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

3.1. Test Equipment

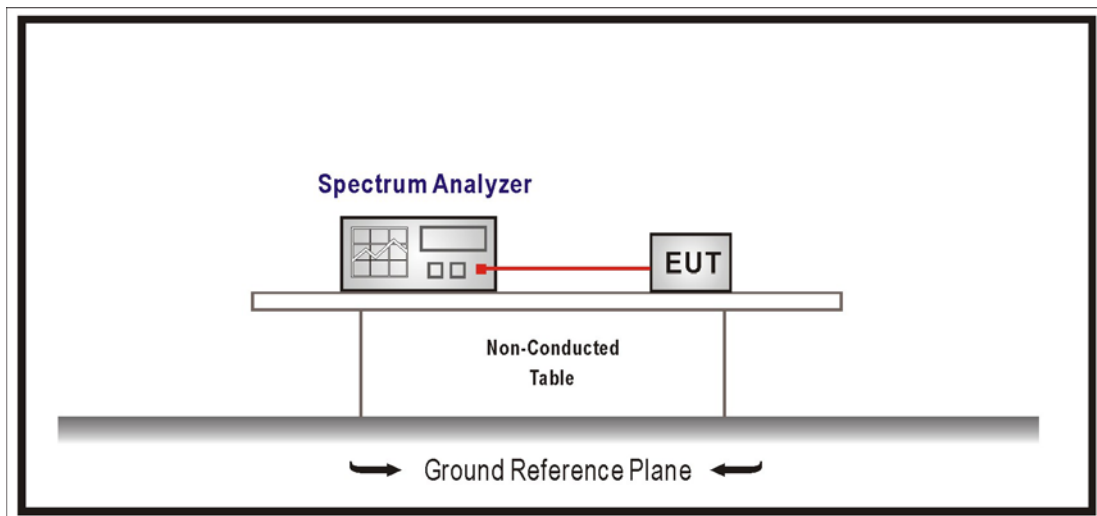
The following test equipments are used during the test:

Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074, Section 5.2.1.2 Measurement Procedure PK2 for compliance to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

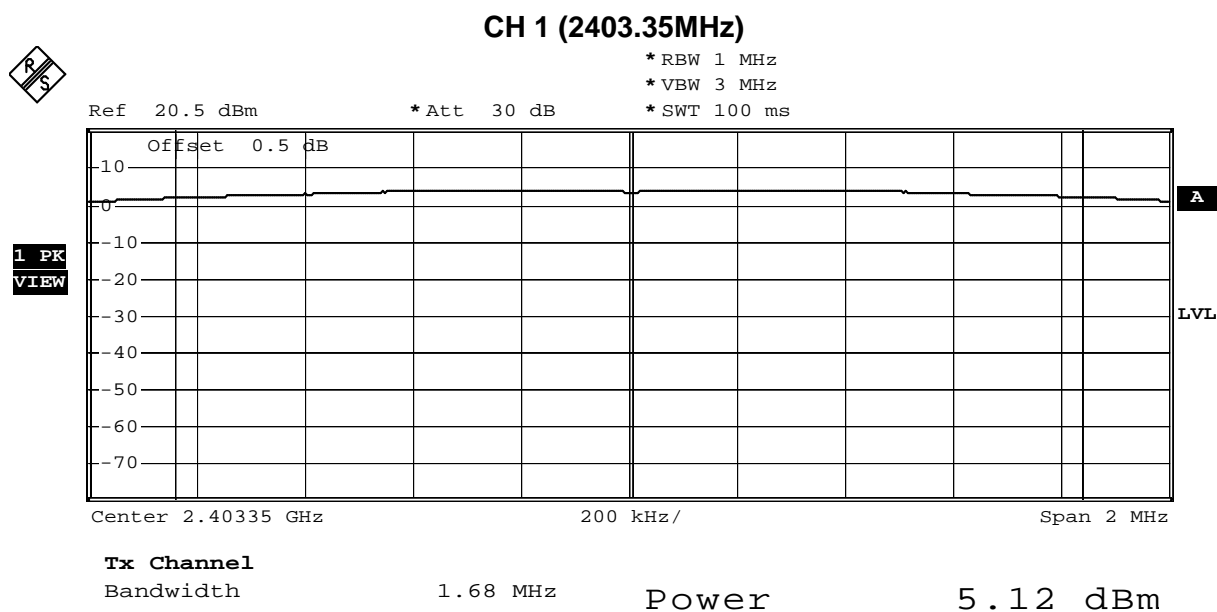
3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	PLYR 2		
Test Item	Peak Power Output		
Test Mode	Transmit		
Date of Test	2012/09/18	Test Site	SR7

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2403.35	5.12	1Watt= 30 dBm	Pass
20	2441.35	4.00	1Watt= 30 dBm	Pass
38	2477.35	2.89	1Watt= 30 dBm	Pass



Comment: A:\2
Date: 18.SEP.2012 20:06:56

CH 20 (2441.35MHz)

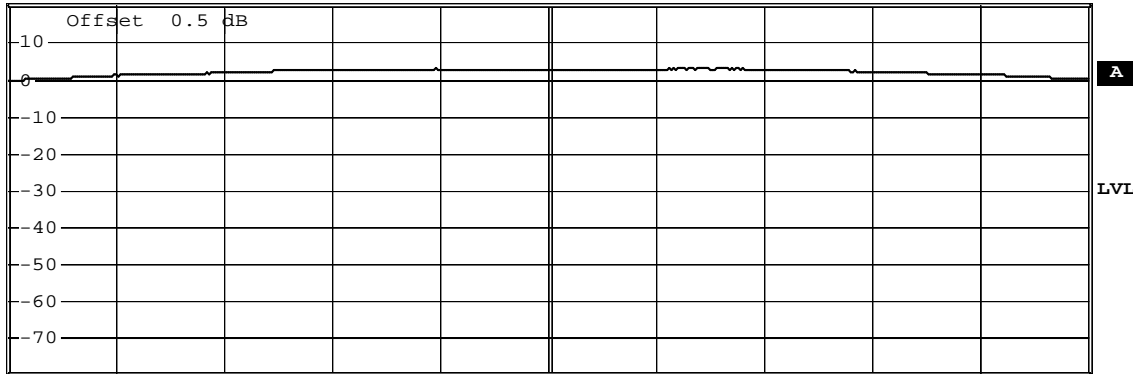


*RBW 1 MHz
*VBW 3 MHz
*SWT 100 ms

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.44135 GHz

200 kHz/

Span 2 MHz

Tx Channel

Bandwidth

1.6 MHz

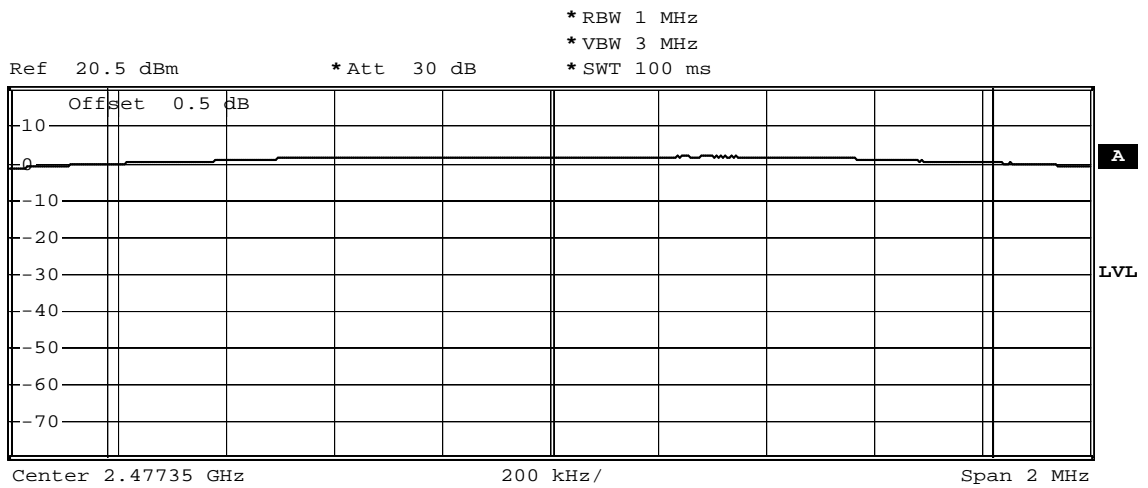
Power

4.00 dBm

Comment: A:\2

Date: 18.SEP.2012 20:06:28

CH 38 (2477.35MHz)



Tx Channel
 Bandwidth 1.64 MHz Power 2.89 dBm

Comment: A:\2
 Date: 18.SEP.2012 20:05:33

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

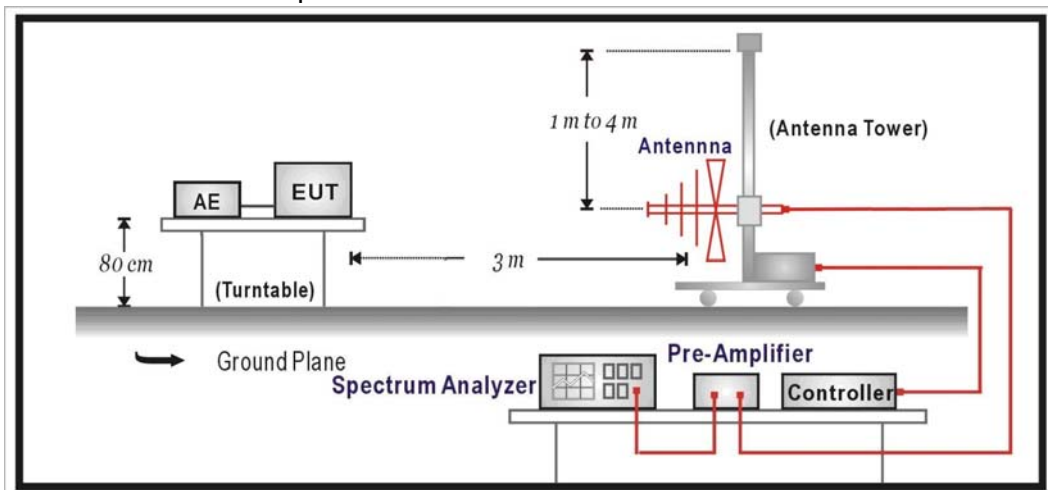
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2013/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Pre-Amplifier	Quietek	AP-025C	CHM-0706049	2013/03/01
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

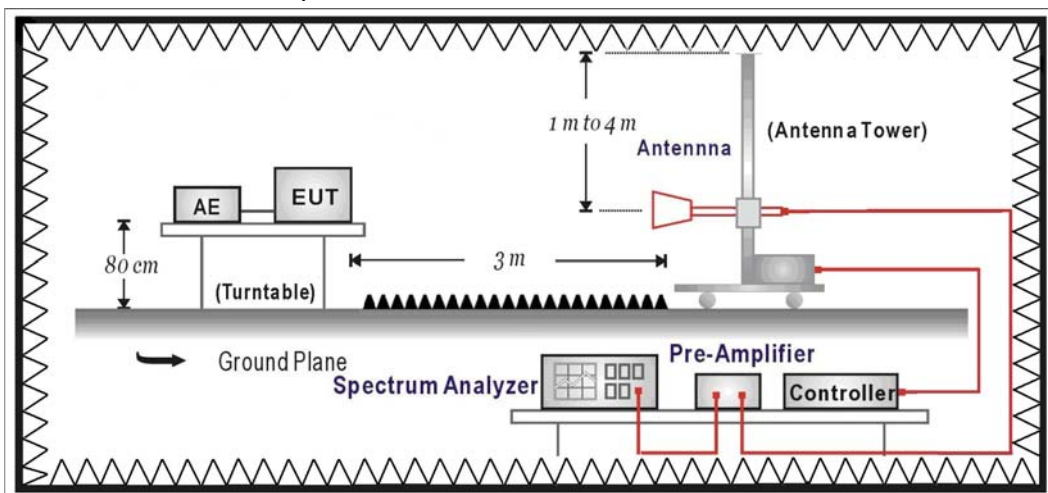
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

4.6. Uncertainty

The measurement uncertainty

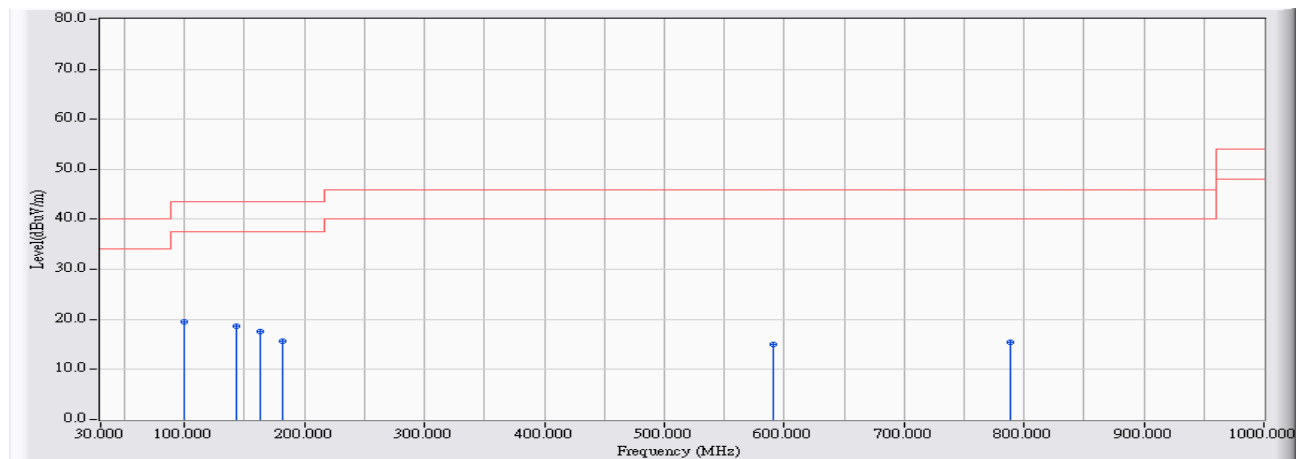
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2012/09/18 - 21:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2441.35MHz_client

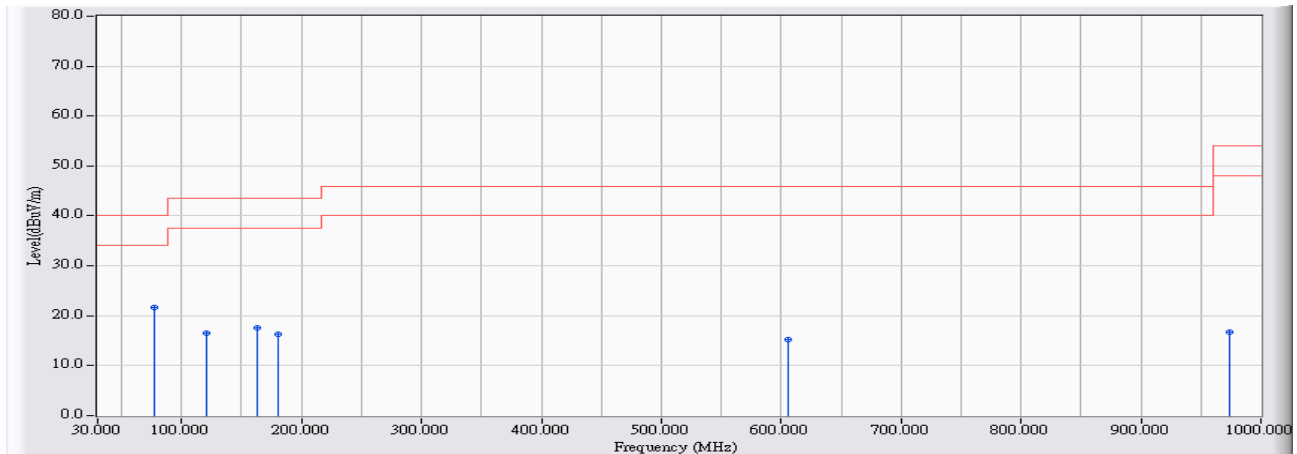


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	99.517	-9.049	28.485	19.436	-24.064	43.500	QUASPEAK
2		143.167	-11.001	29.695	18.694	-24.806	43.500	QUASPEAK
3		162.567	-12.931	30.434	17.502	-25.998	43.500	QUASPEAK
4		181.967	-15.039	30.688	15.649	-27.851	43.500	QUASPEAK
5		590.983	-7.538	22.506	14.968	-31.032	46.000	QUASPEAK
6		788.217	-8.403	23.943	15.541	-30.459	46.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	Time : 2012/09/18 - 21:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2441.35MHz_client



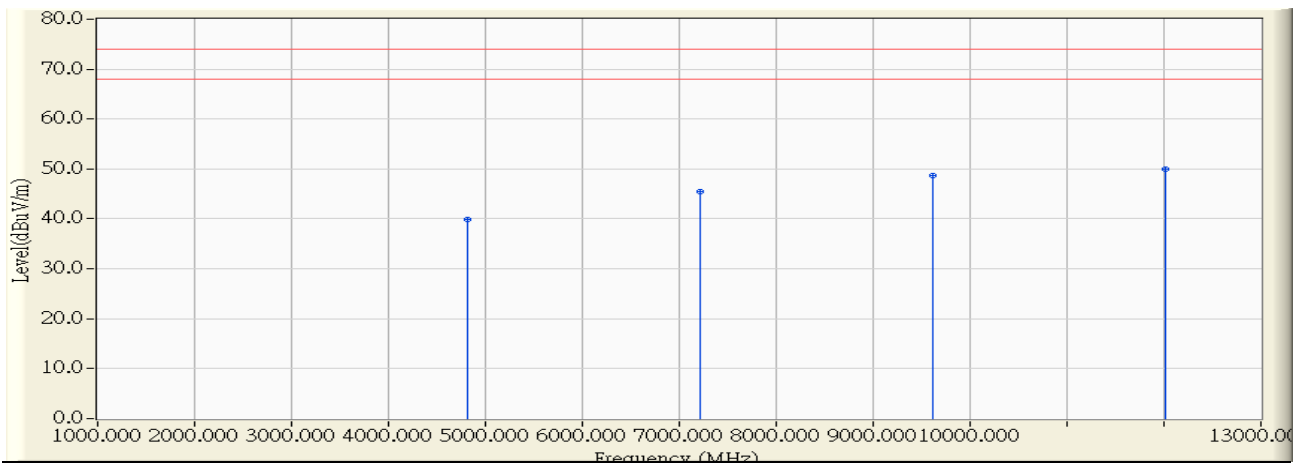
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	76.883	-10.690	32.272	21.581	-18.419	40.000	QUASPEAK
2		120.533	-8.631	25.130	16.499	-27.001	43.500	QUASPEAK
3		162.567	-12.931	30.430	17.498	-26.002	43.500	QUASPEAK
4		180.350	-14.920	31.166	16.246	-27.254	43.500	QUASPEAK
5		605.533	-7.217	22.490	15.273	-30.727	46.000	QUASPEAK
6		974.133	-5.233	21.885	16.652	-37.348	54.000	QUASPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : CB1	Time : 2012/09/17 - 15:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2403.35MHz_client

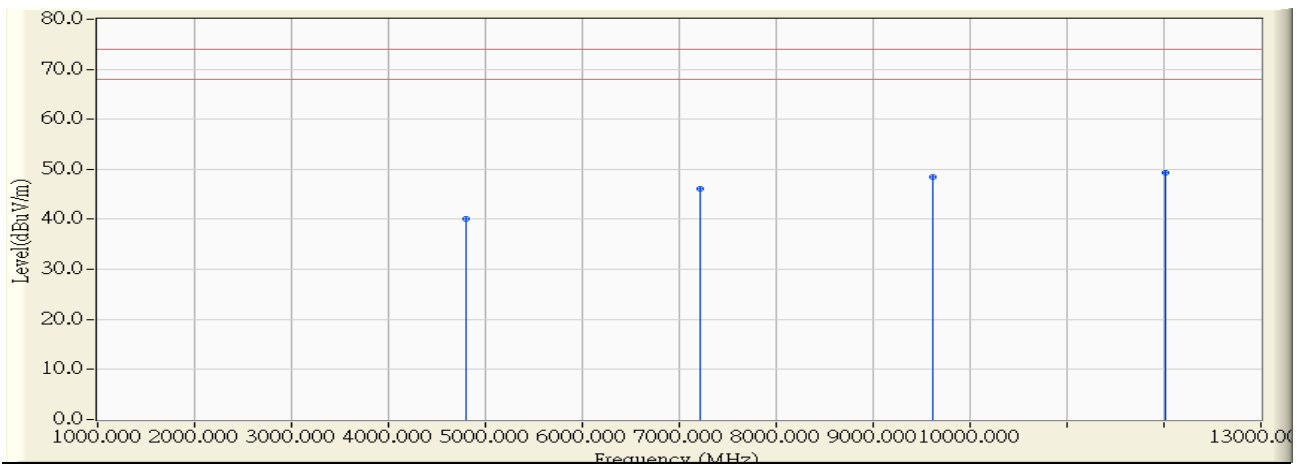


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4811.540	-0.836	40.810	39.974	-34.026	74.000	PEAK
2	7214.850	5.446	39.970	45.415	-28.585	74.000	PEAK
3	9608.000	8.941	39.800	48.741	-25.259	74.000	PEAK
4	* 12011.830	11.543	38.430	49.973	-24.027	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/09/17 - 15:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2403.35MHz_client

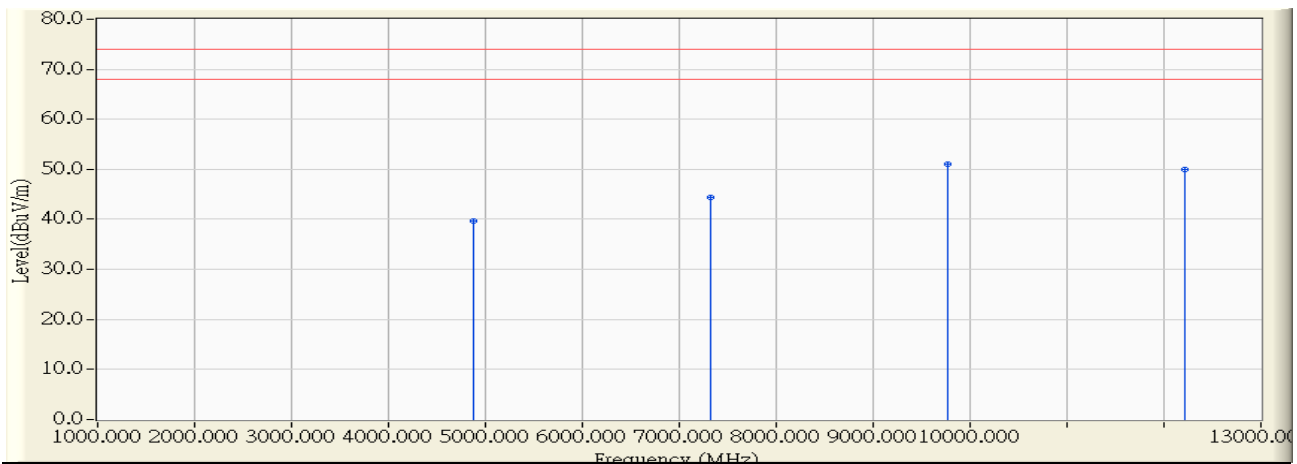


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4799.620	-0.867	40.870	40.003	-33.997	74.000	PEAK
2	7216.890	5.451	40.560	46.010	-27.990	74.000	PEAK
3	9615.320	8.994	39.570	48.564	-25.436	74.000	PEAK
4	* 12018.350	11.540	37.740	49.280	-24.720	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/09/17 - 15:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2441.35MHz_client

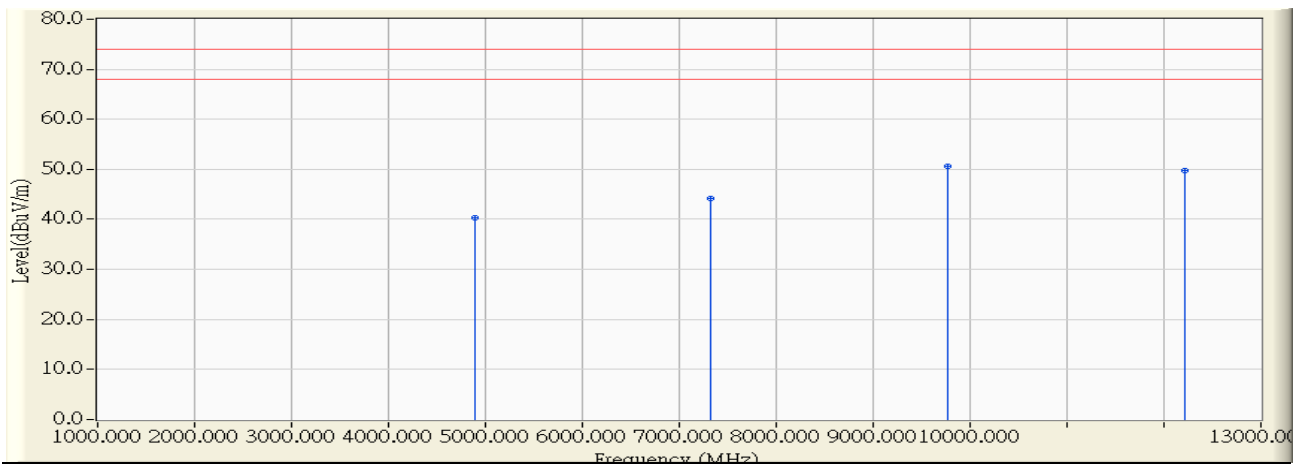


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4883.540	-0.647	40.420	39.773	-34.227	74.000	PEAK
2	7316.170	5.690	38.800	44.490	-29.510	74.000	PEAK
3	* 9768.600	10.105	40.840	50.945	-23.055	74.000	PEAK
4	12210.150	11.472	38.400	49.872	-24.128	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/09/17 - 15:48
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2441.35MHz_client

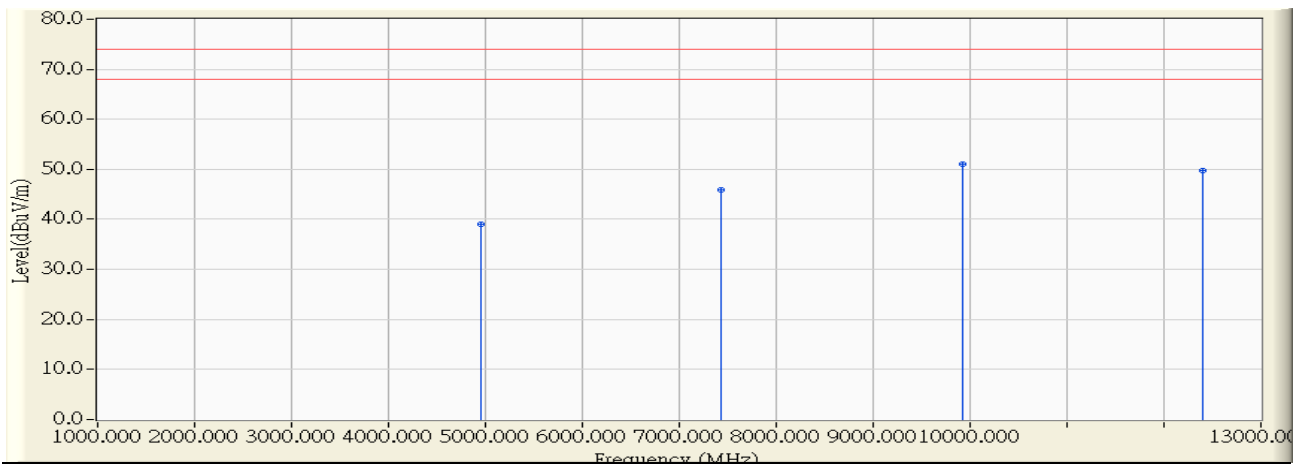


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4889.460	-0.631	40.940	40.309	-33.691	74.000	PEAK
2	7328.090	5.718	38.570	44.289	-29.711	74.000	PEAK
3	* 9763.560	10.067	40.550	50.618	-23.382	74.000	PEAK
4	12210.310	11.472	38.230	49.702	-24.298	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/09/17 - 16:12
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2477.35MHz_client

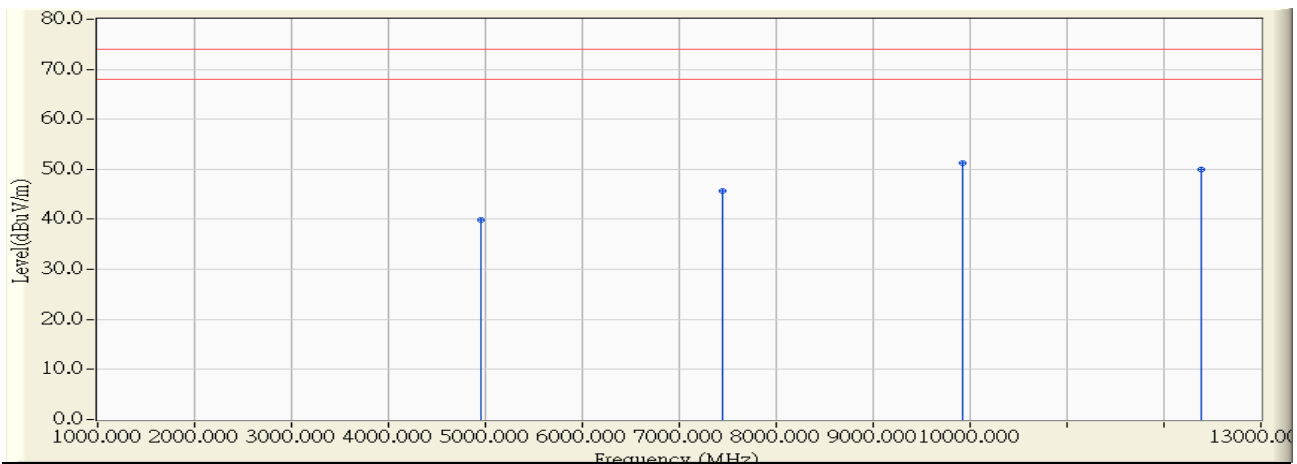


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4954.580	-0.461	39.560	39.100	-34.900	74.000	PEAK
2	7431.290	5.968	39.890	45.858	-28.142	74.000	PEAK
3	* 9917.840	11.186	39.920	51.106	-22.894	74.000	PEAK
4	12392.910	11.408	38.390	49.798	-24.202	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/09/17 - 16:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2477.35MHz_client



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4953.740	-0.462	40.260	39.797	-34.203	74.000	PEAK
2	7439.210	5.986	39.760	45.747	-28.253	74.000	PEAK
3	* 9917.000	11.181	40.130	51.310	-22.690	74.000	PEAK
4	12377.350	11.414	38.540	49.953	-24.047	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

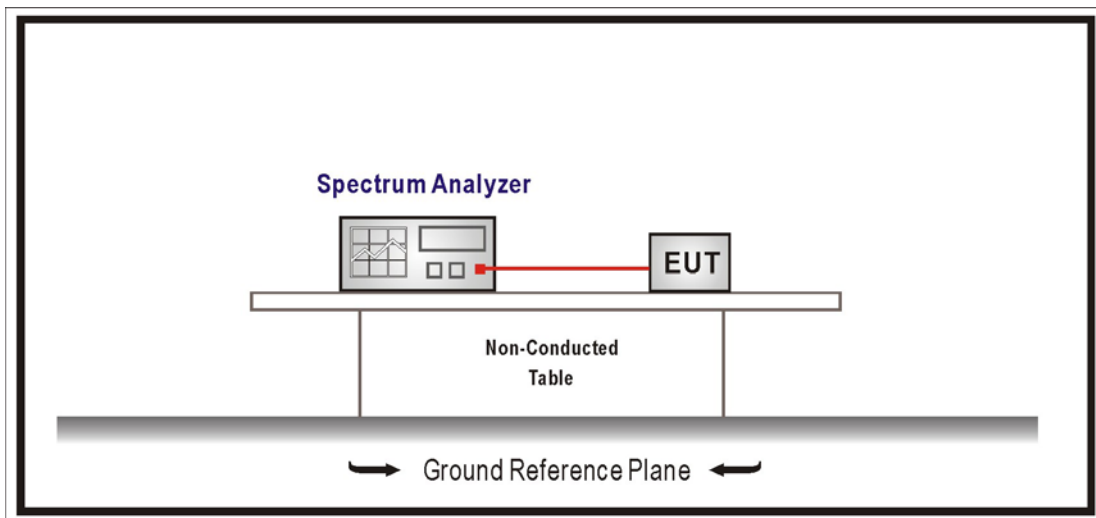
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

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 an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

5.6. Uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

Product	PLYR 2		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit-Headset		
Date of Test	2012/09/18	Test Site	SR7

Antenna Gain: 0dBi				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2403.35	43.07	≥ 20	Pass
38	2477.35	48.07	≥ 20	Pass

Channel 01 (2403.35MHz)

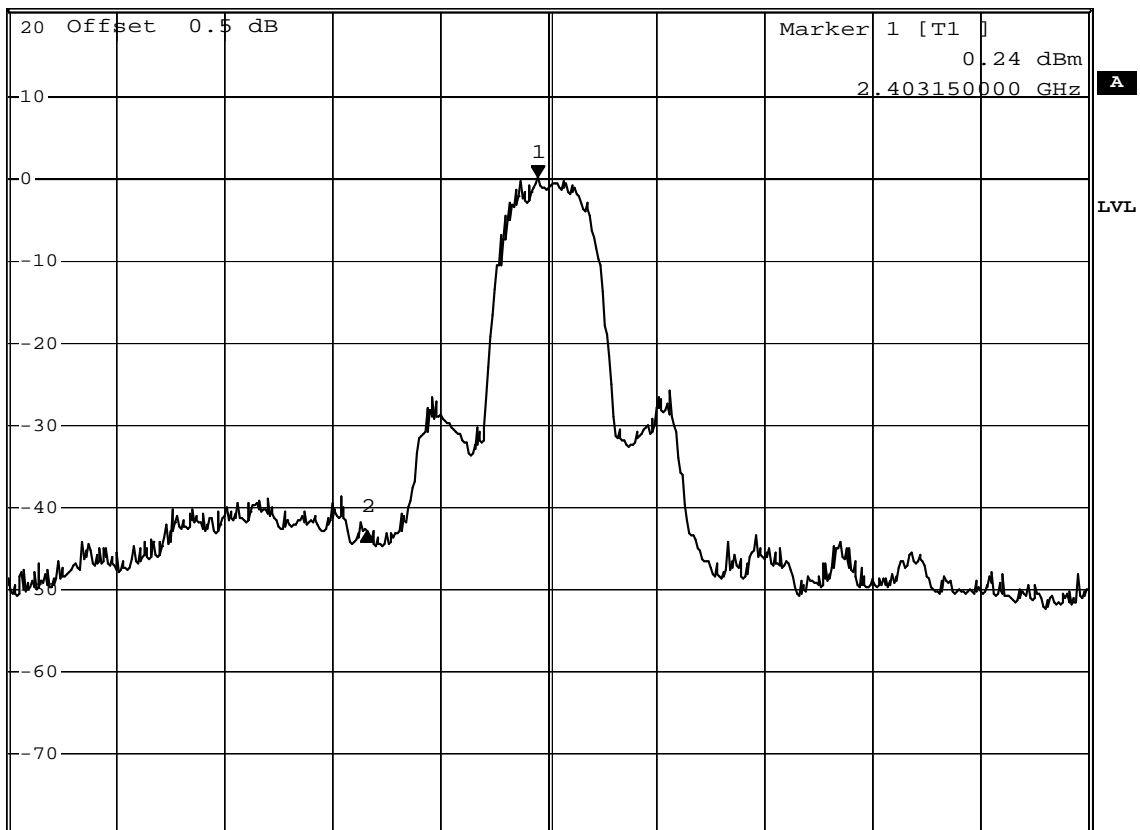


*RBW 100 kHz Delta 2 [T1]
 *VBW 100 kHz -43.07 dB
 *SWT 100 ms -3.150000000 MHz

Ref 20.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.40335 GHz

2 MHz/

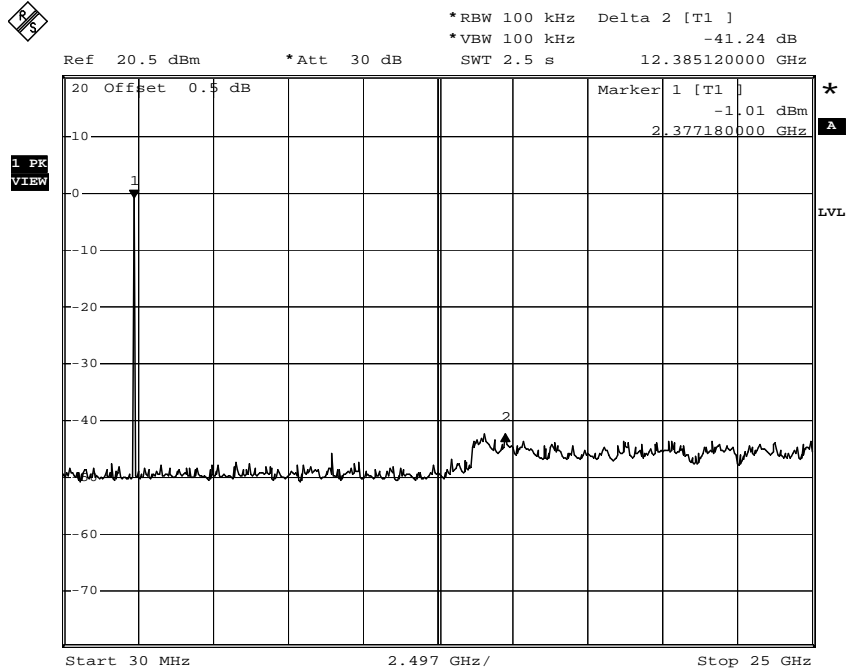
Span 20 MHz

Comment: A:\2

Date: 18.SEP.2012 13:30:28

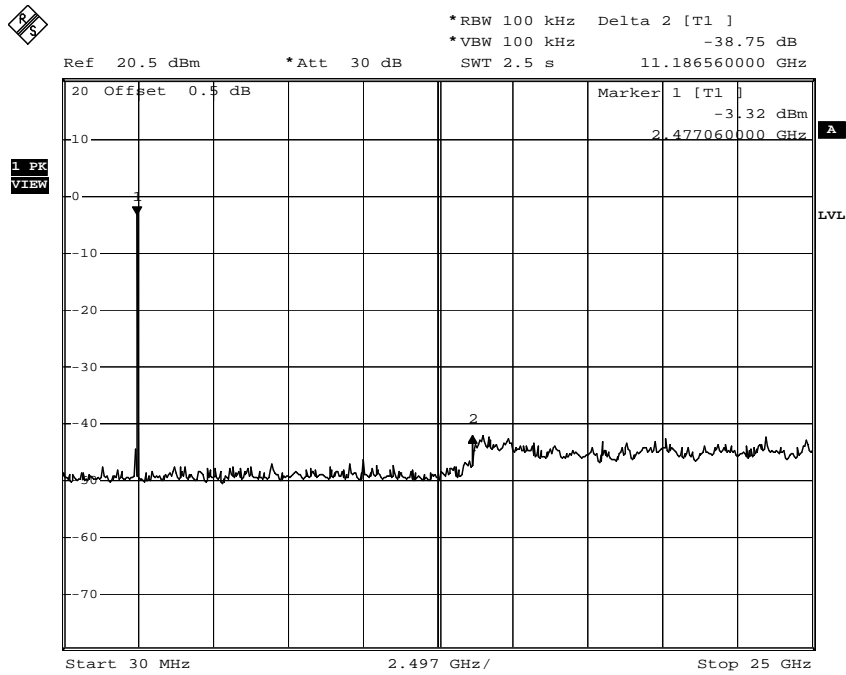
Product	PLYR 2		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit-Headset		
Date of Test	2012/09/18	Test Site	SR7

2403.35MHz (30MHz-25GHz)



Comment: A:\2
 Date: 18.SEP.2012 13:33:40

2477.35MHz (30MHz-25GHz)



Comment: A:\2
 Date: 18.SEP.2012 13:34:57

6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

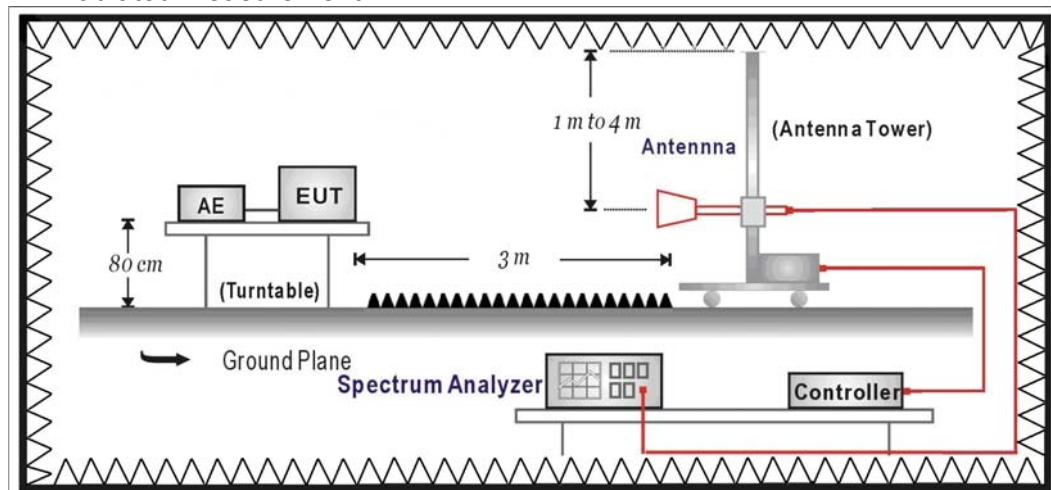
Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

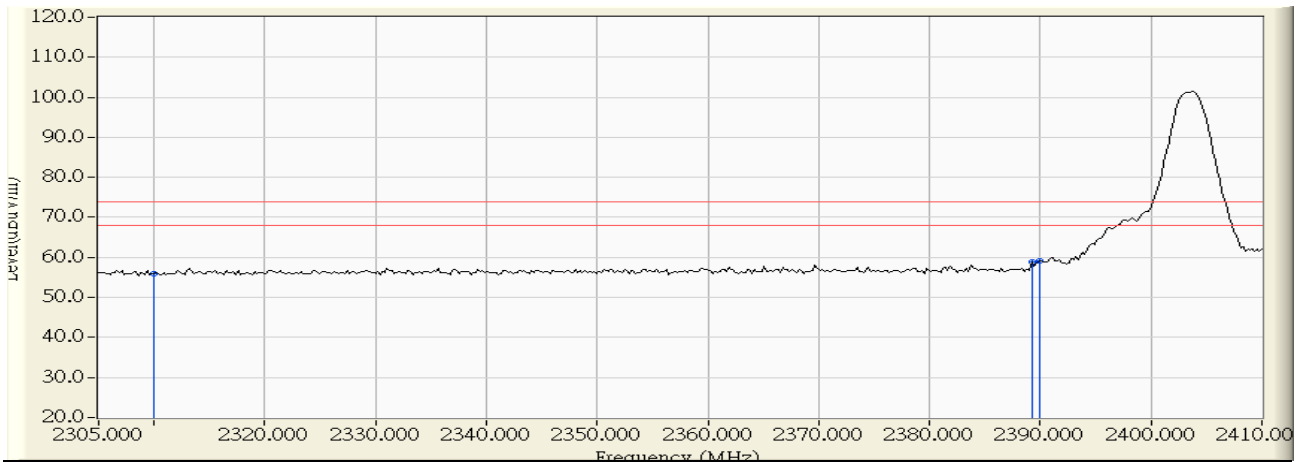
6.6. Uncertainty

The measurement uncertainty
 ± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2012/09/18 - 09:50
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2403.35MHz

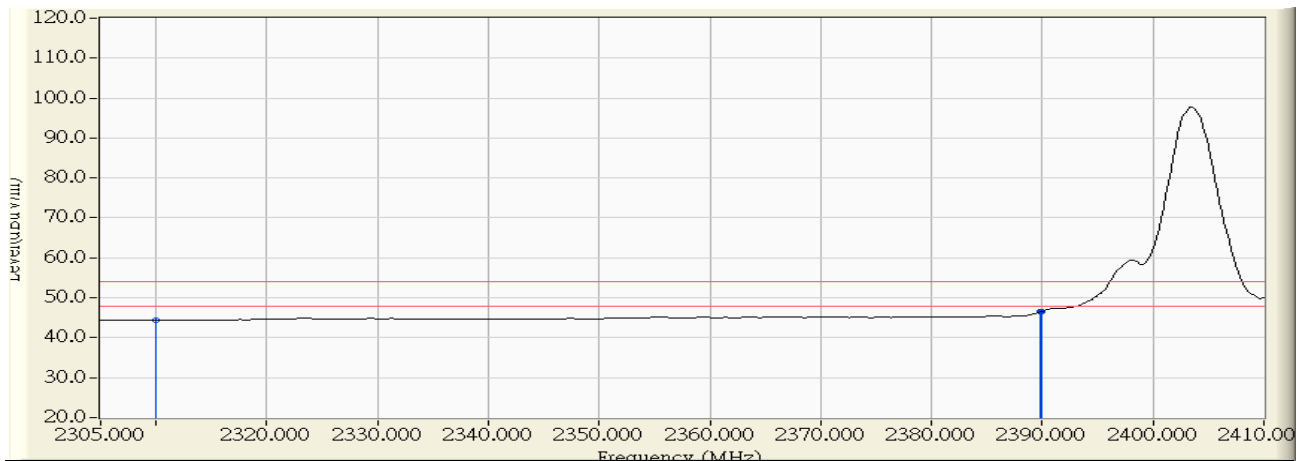


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	26.190	55.969	-18.031	74.000	PEAK
2	2389.210	30.570	28.423	58.993	-15.007	74.000	PEAK
3	* 2390.000	30.578	28.557	59.135	-14.865	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 09:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2403.35MHz

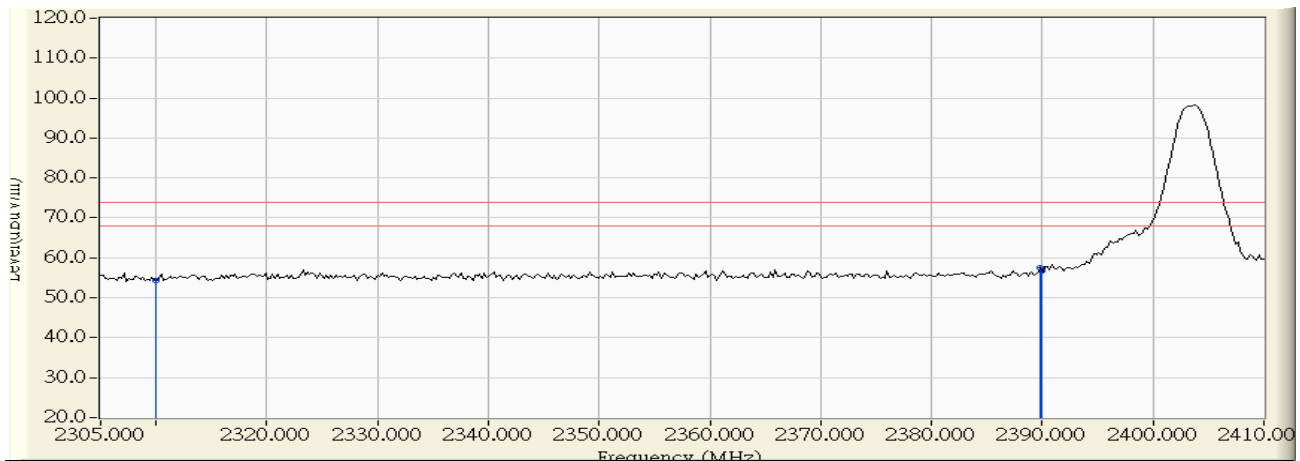


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.596	44.375	-9.625	54.000	AVERAGE
2	2389.840	30.577	15.906	46.482	-7.518	54.000	AVERAGE
3	* 2390.000	30.578	16.033	46.611	-7.389	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 09:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2403.35MHz

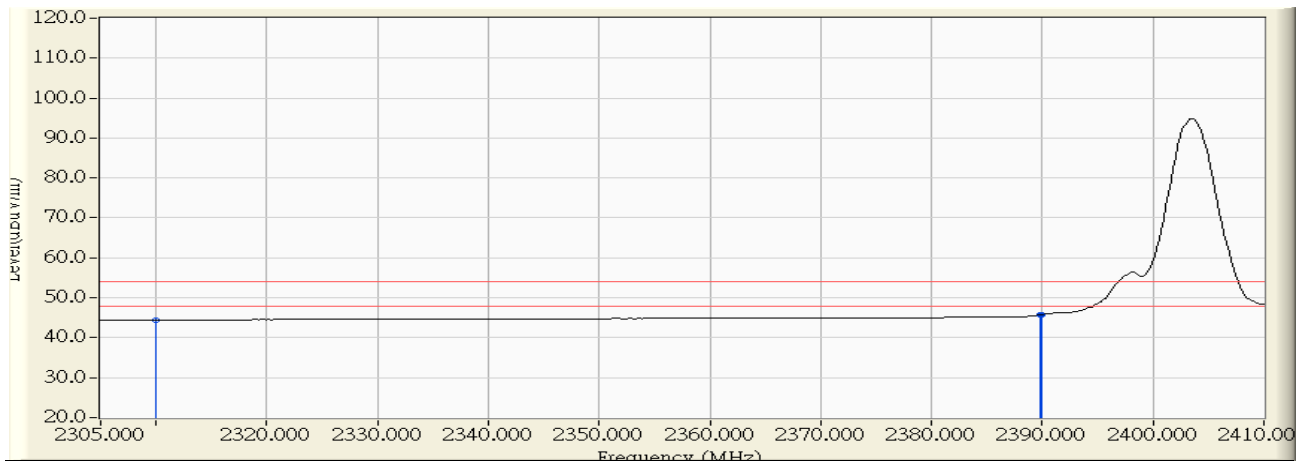


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	24.506	54.285	-19.715	74.000	PEAK
2	* 2389.840	30.577	26.840	57.416	-16.584	74.000	PEAK
3	2390.000	30.578	26.105	56.683	-17.317	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 09:48
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2403.35MHz

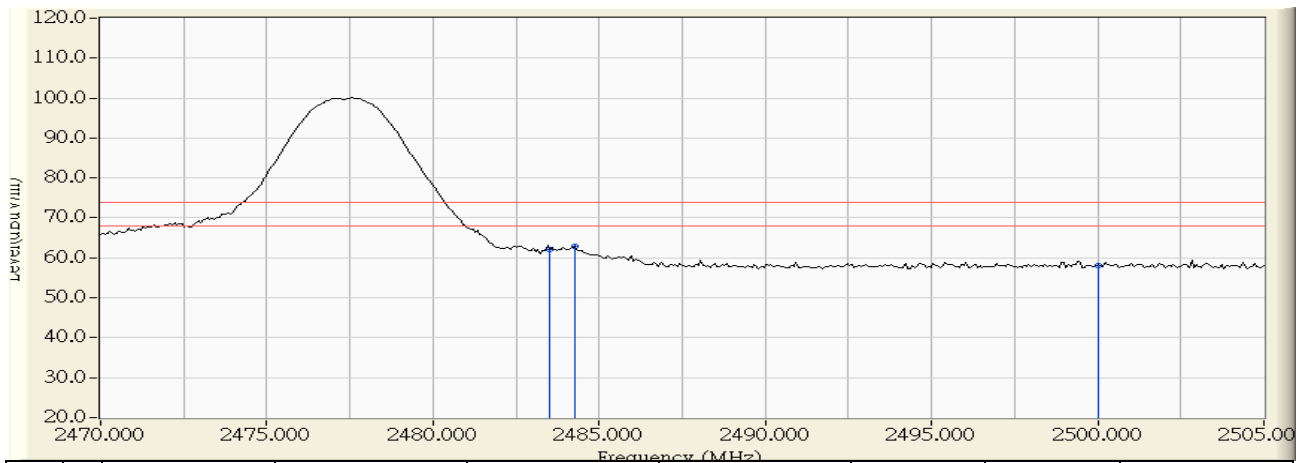


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.622	44.401	-9.599	54.000	AVERAGE
2	2389.840	30.577	15.179	45.755	-8.245	54.000	AVERAGE
3	* 2390.000	30.578	15.256	45.834	-8.166	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 10:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2477.35MHz

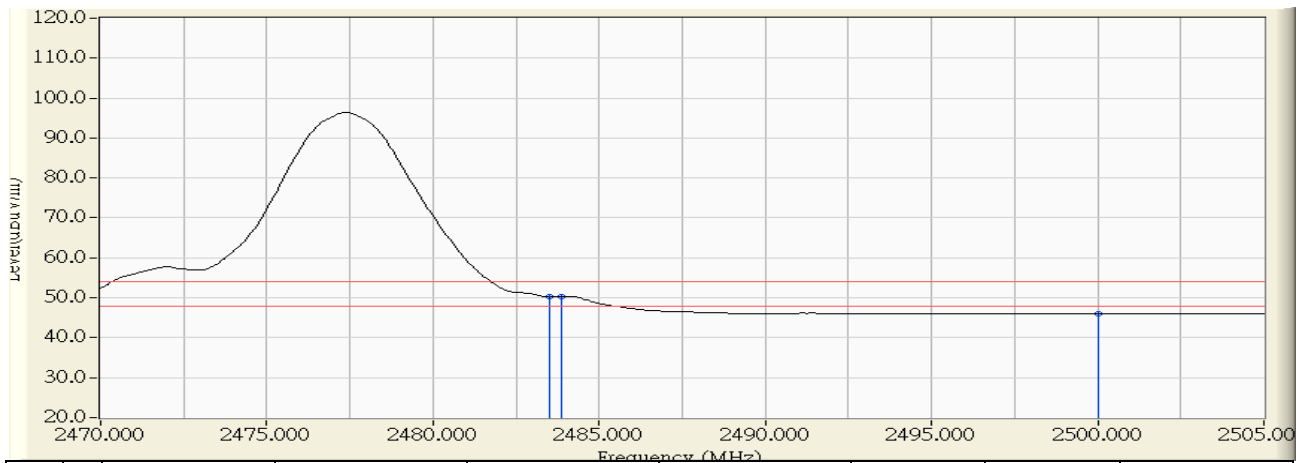


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	30.649	62.161	-11.839	74.000	PEAK
2	* 2484.280	31.519	31.286	62.806	-11.194	74.000	PEAK
3	2500.000	31.638	26.526	58.165	-15.835	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 10:01
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2477.35MHz

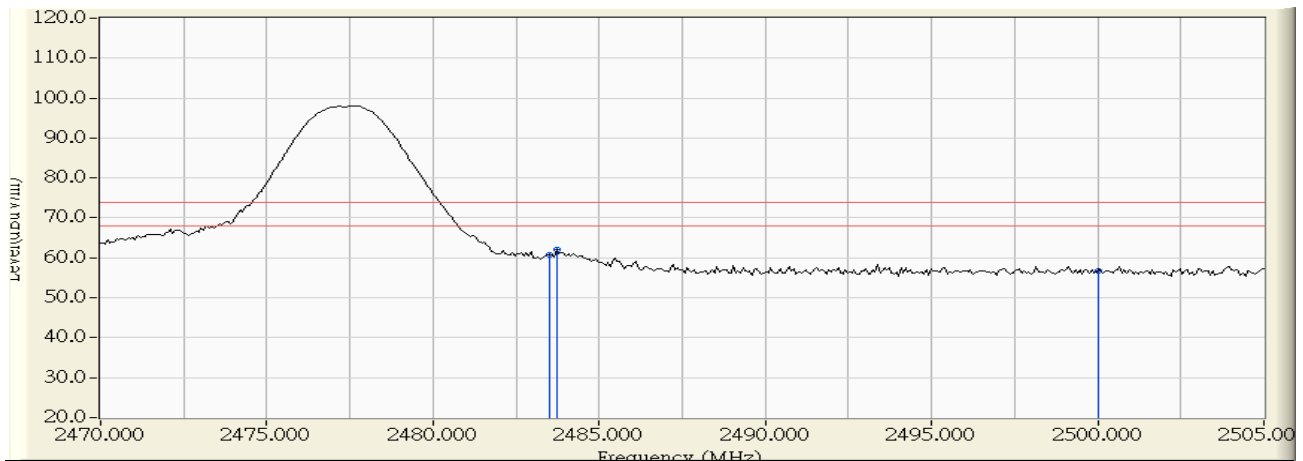


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	18.652	50.164	-3.836	54.000	AVERAGE
2	* 2483.860	31.516	18.852	50.367	-3.633	54.000	AVERAGE
3	2500.000	31.638	14.364	46.003	-7.997	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 09:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2477.35MHz

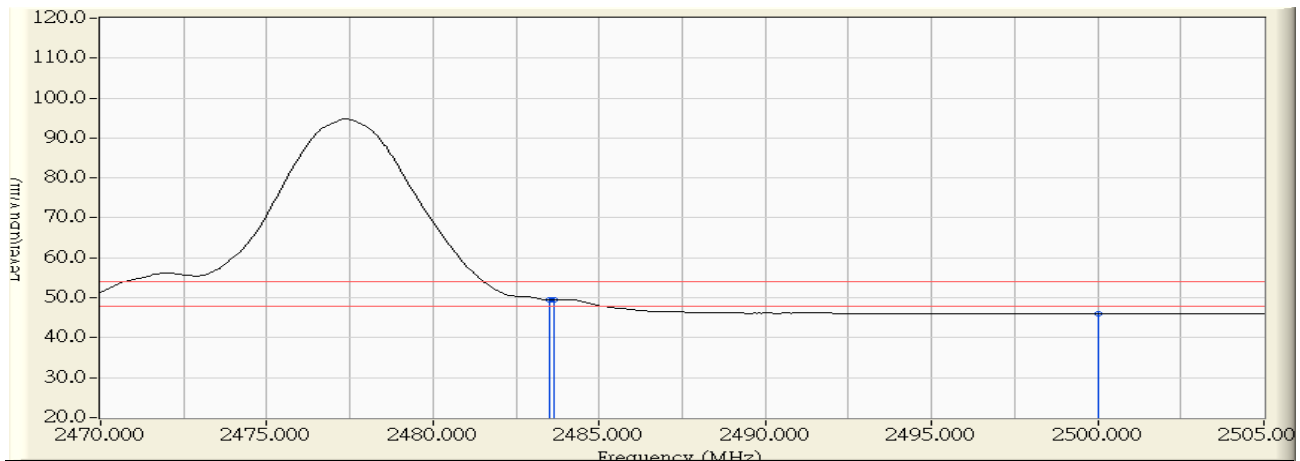


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	29.335	60.847	-13.153	74.000	PEAK
2	* 2483.720	31.514	30.444	61.958	-12.042	74.000	PEAK
3	2500.000	31.638	25.217	56.856	-17.144	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	Time : 2012/09/18 - 09:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 5V (Power by PC)
EUT : PLYR 2	Note : Mode 1: Transmit-Headset-2477.35MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	17.862	49.374	-4.626	54.000	AVERAGE
2	* 2483.650	31.514	17.896	49.409	-4.591	54.000	AVERAGE
3	2500.000	31.638	14.460	46.099	-7.901	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

7.1. Test Equipment

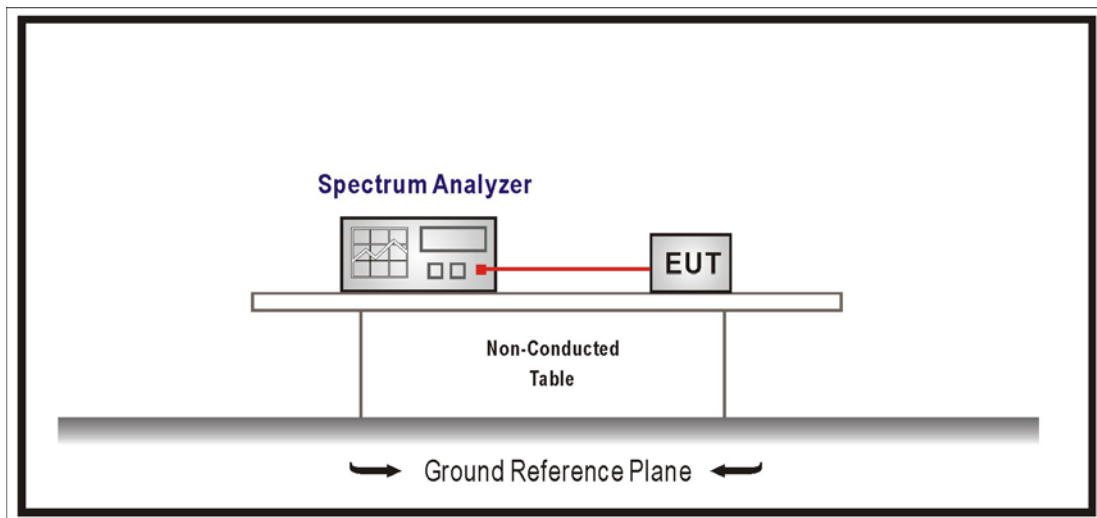
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1% of EBW, Span greater than RBW.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

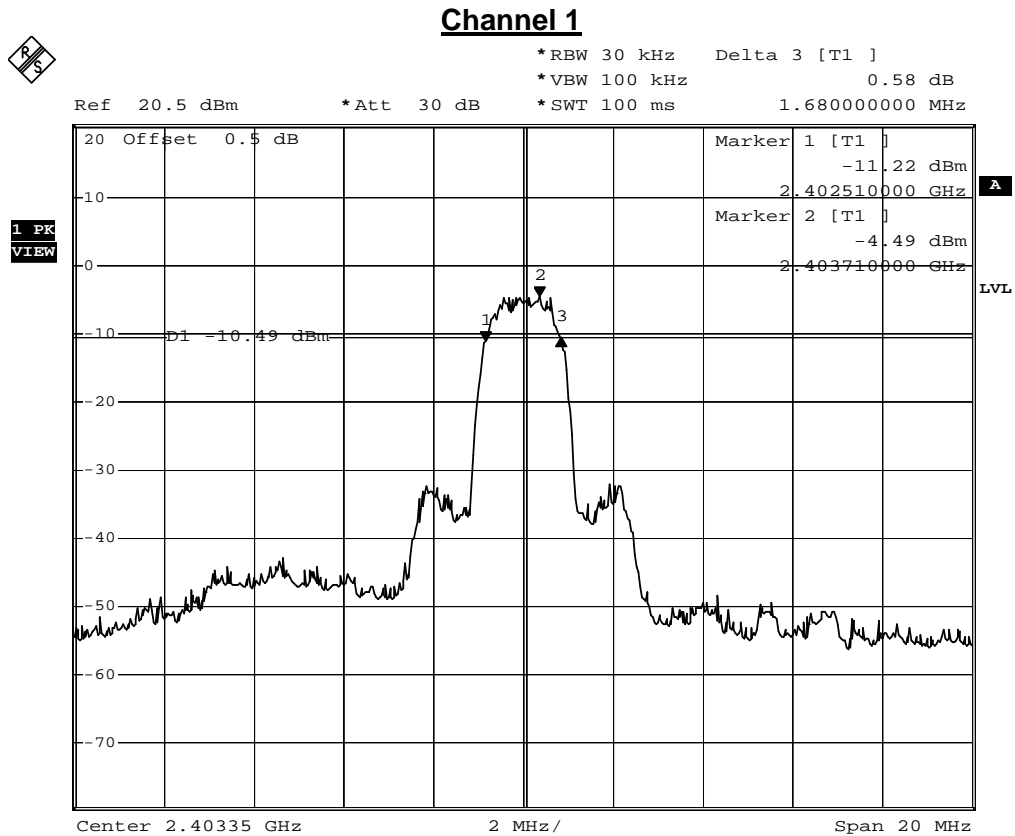
7.6. Uncertainty

The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

Product	PLYR 2		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit-Headset		
Date of Test	2012/09/18	Test Site	SR7

Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2403.35	1.680	≥ 0.5	Pass
20	2441.35	1.600	≥ 0.5	Pass
38	2477.35	1.640	≥ 0.5	Pass



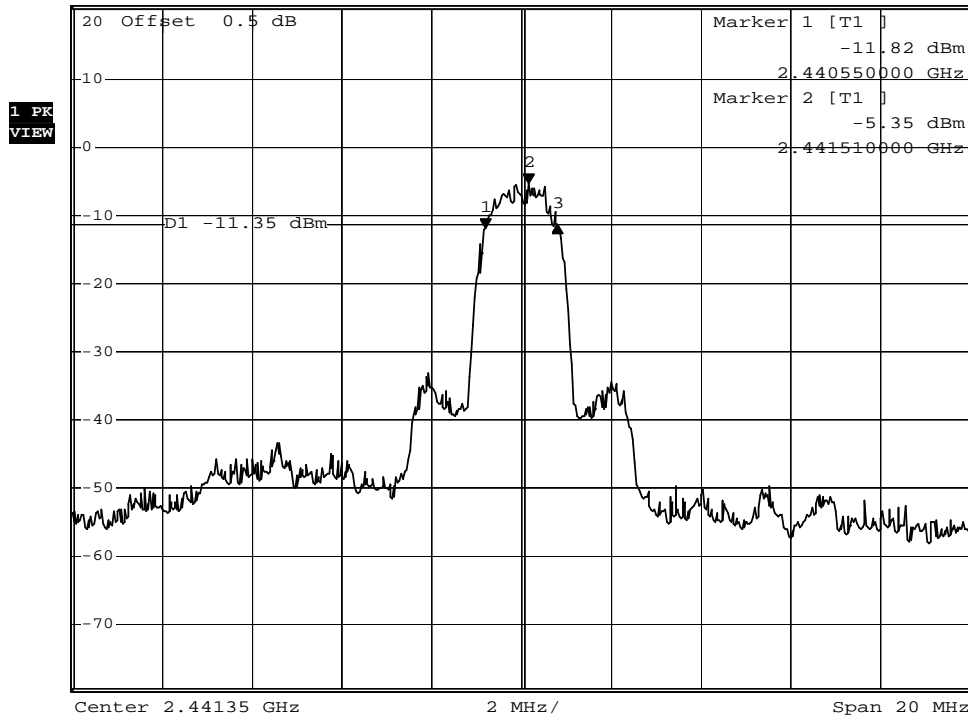
Comment: A:\2
Date: 18.SEP.2012 19:59:31

Channel 20



*RBW 30 kHz Delta 3 [T1]
 *VBW 100 kHz 0.31 dB
 *SWT 100 ms 1.600000000 MHz

Ref 20.5 dBm *Att 30 dB



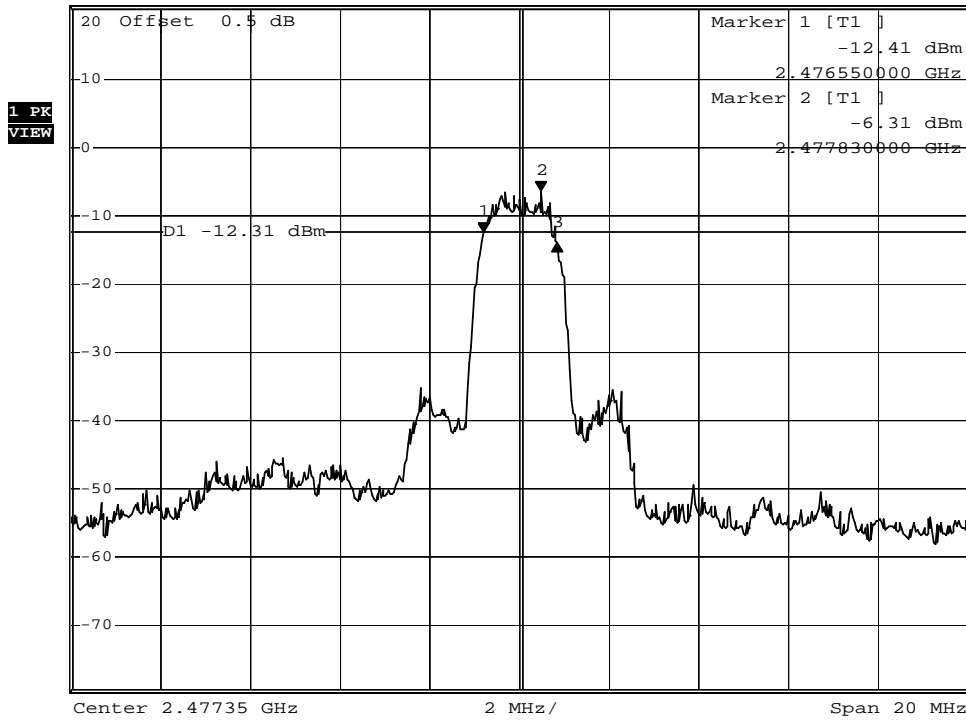
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 Date: 18.SEP.2012 20:00:51

Channel 38



*RBW 30 kHz Delta 3 [T1]
 *VBW 100 kHz -1.71 dB
 *SWT 100 ms 1.640000000 MHz

Ref 20.5 dBm *Att 30 dB



Comment: A:\2
 Date: 18.SEP.2012 20:01:55

8. Power Density

8.1. Test Equipment

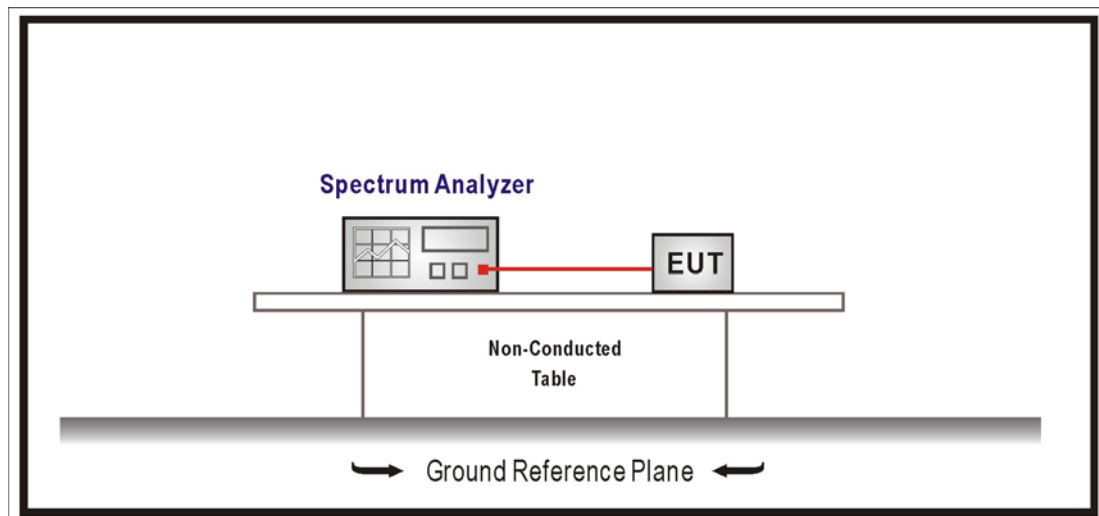
The following test equipment are used during the test:

Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, Set VBW= 300 kHz, Sweep time=Auto, Set detector=Peak detector.

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{ kHz}/100\text{ kHz}) = -15.2\text{ dB}$.

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

8.6. Uncertainty

The measurement uncertainty is defined as $\pm 1.27\text{dB}$.

8.7. Test Result

Product	PLYR 2		
Test Item	Power Density		
Test Mode	Mode 1: Transmit-Headset		
Date of Test	2012/09/18	Test Site	SR7

Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level (dBm)	Limit (dBm)	Result
1	2403.35	1.23	-13.97	≤8	Pass
20	2441.35	0.39	-14.81	≤8	Pass
38	2477.35	-0.85	-16.05	≤8	Pass

Note: Measure Level (dBm) = Reading Level (dBm) + BWCF = Reading Level (dBm) -15.2 (dB)
 Bandwidth correction factor (BWCF) = 10log (3kHz.100kHz)

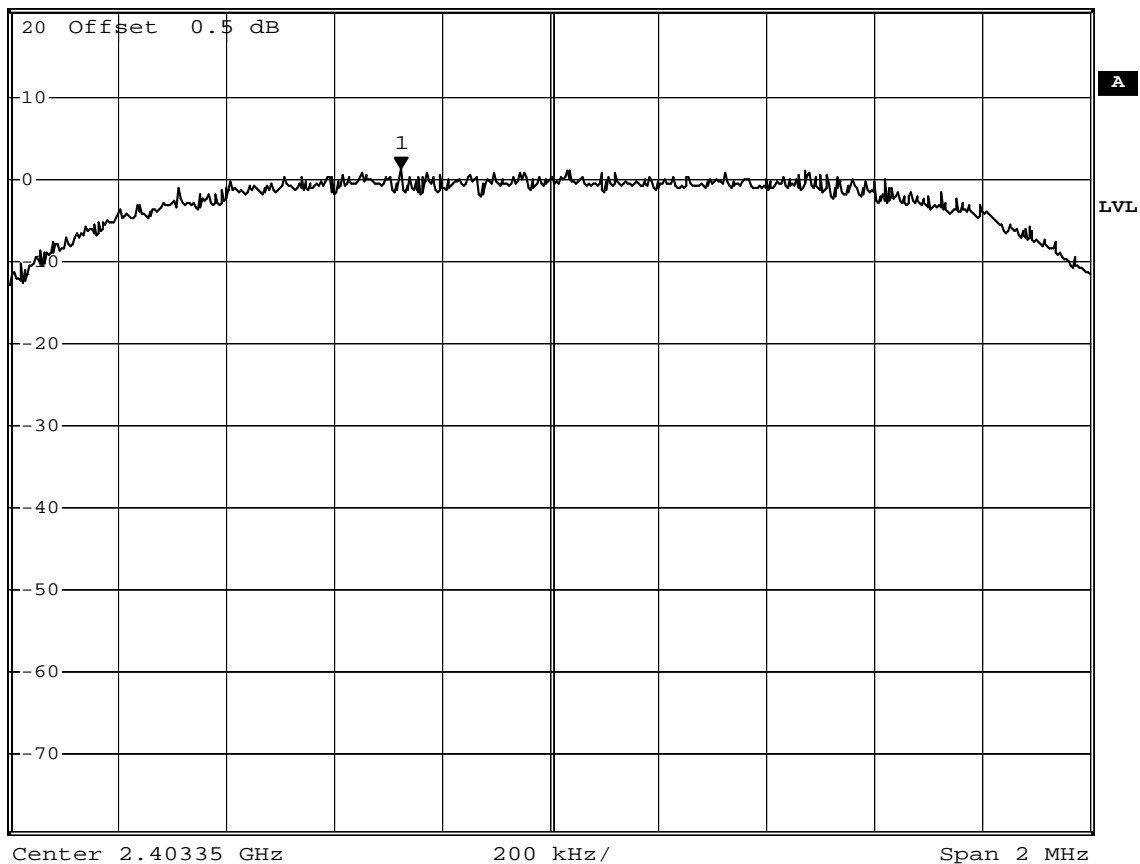
Channel 1



*RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz 1.23 dBm
 *SWT 100 ms 2.403074000 GHz

Ref 20.5 dBm

*Att 30 dB



Comment: A:\2

Date: 18.SEP.2012 20:07:59

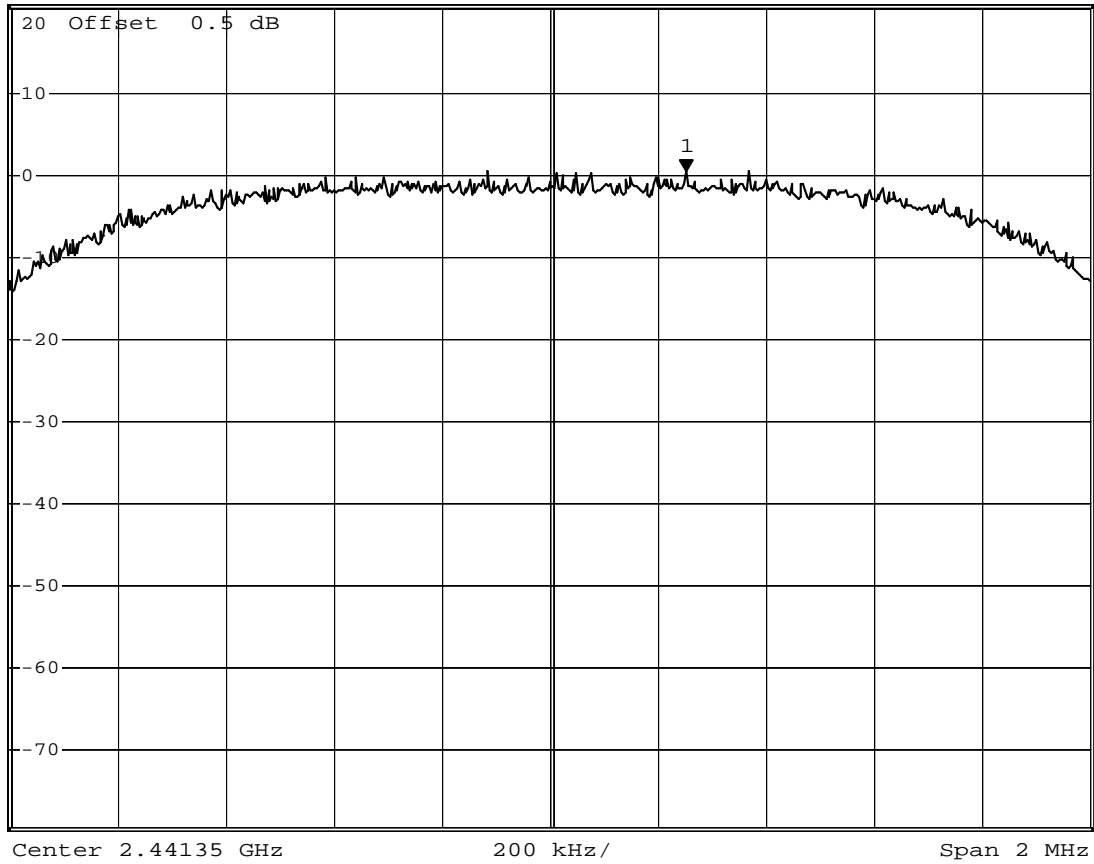
Channel 20



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 0.39 dBm
*SWT 100 ms 2.441602000 GHz

Ref 20.5 dBm

*Att 30 dB



Comment: A:\2

Date: 18.SEP.2012 20:08:25

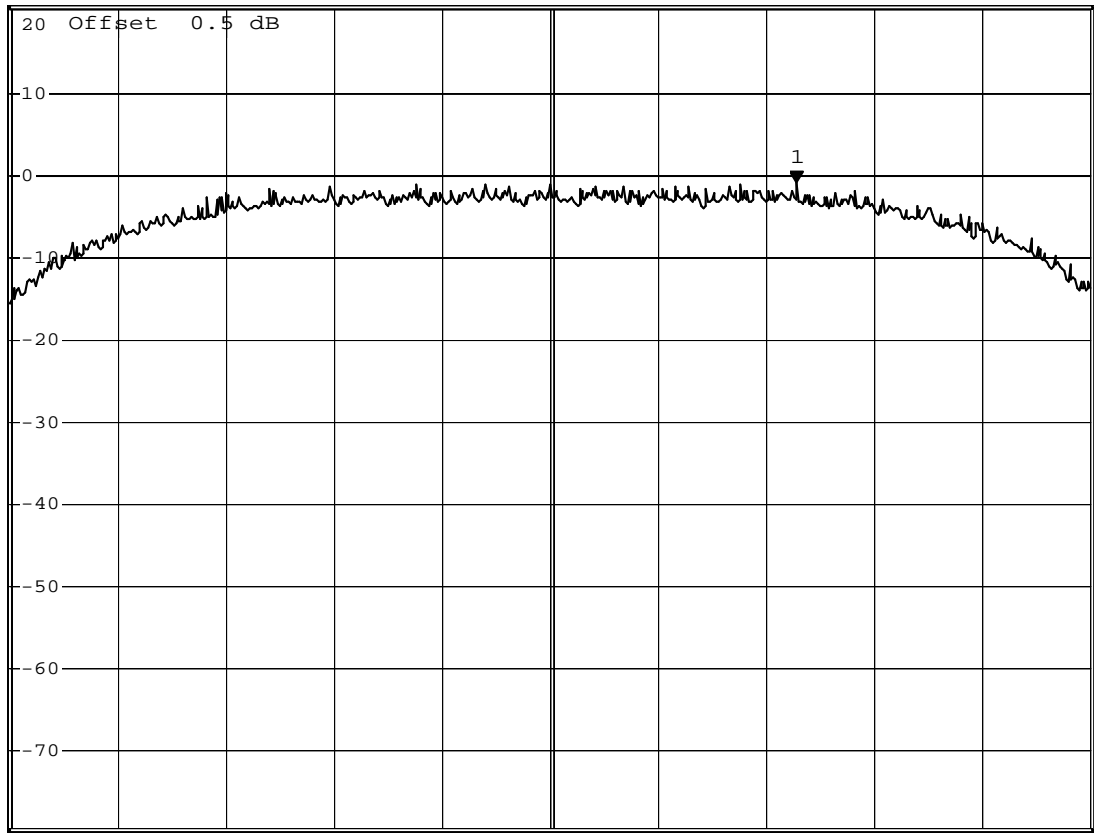
Channel 38



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -0.85 dBm
*SWT 100 ms 2.477806000 GHz

Ref 20.5 dBm

*Att 30 dB



Center 2.47735 GHz

200 kHz/

Span 2 MHz

Comment: A:\2

Date: 18.SEP.2012 20:08:56