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Report No.: SZEM150400177102
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FCC REPORT

Application No. : SZEM1504001771CR
Applicant: Hobbico Inc.
Manufacturer/Factory: YITINFU ELECTRONICS TECHNOLOGY(SHENZHEN) CO.,LTD
Product Name: Radio controlled model quadcopter and transmitter/receiver
Model No.(EUT): VISTA 251 QUAD RTF
Add Model No.: MR100
Trade Mark: Dromida
FCC ID: IYFMR100
Standards: 47 CFR Part 15, Subpart C (2014)
Date of Receipt: 2015-04-17
Date of Test: 2015-04-20 to 2015-04-29
Date of Issue: 2015-05-08

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

Authorized Signature:



Jack Zhang
EMC 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 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-05-08		Original

Authorized for issue by:				
Tested By		 _____ (Eric Fu) /Project Engineer		2015-04-29 _____ Date
Prepared By		 _____ (Jade Chen) /Clerk		2015-05-08 _____ Date
Checked By		 _____ (Emen Li) /Reviewer		2015-05-08 _____ Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2009)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2009)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)	ANSI C63.10 (2009)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2009)	PASS

Remark:

Model No.: VISTA 251 QUAD RTF, MR100.

There are three kinds of color samples for the model. Only the sample in section 7.1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. Only different on appearance color and model name for the marketing requirement.



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5 General Information

5.1 Client Information

Applicant:	Hobbico Inc.
Address of Applicant:	2904 Research Rd, Champaign, IL USA 61826
Manufacturer:	YITINFU ELECTRONICS TECHNOLOGY(SHENZHEN) CO.,LTD
Address of Manufacturer:	3-7/F,Bldg E, jinxiongda Technological Park,Shangwei Villiage, Zhangkengjin,Guanlan Town, Baoan District, Shenzhen 518110, China.
Factory:	YITINFU ELECTRONICS TECHNOLOGY(SHENZHEN) CO.,LTD
Address of Factory:	3-7/F,Bldg E, jinxiongda Technological Park,Shangwei Villiage, Zhangkengjin,Guanlan Town, Baoan District, Shenzhen 518110, China.

5.2 General Description of EUT

Product Name:	Radio controlled model quadcopter and transmitter/receiver
Model No.:	VISTA 251 QUAD RTF
Trade Mark :	Dromida
Operating Frequency:	2403 MHz – 2473 MHz
Modulation Type:	GFSK
Number of Channels:	16 (declared by the client)
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	2dBi
Power Supply:	TX: DC 6.0V (4*1.5V “AAA” Size battery) RX: LiPo Battery DC 3.7V 850mAh





Operation Frequency each of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2403 MHz	7CH	2432 MHz	13CH	2466 MHz
2CH	2413 MHz	8CH	2435 MHz	14CH	2468 MHz
3CH	2415 MHz	9CH	2440 MHz	15CH	2470 MHz
4CH	2419 MHz	10CH	2453 MHz	16CH	2473 MHz
5CH	2423 MHz	11CH	2456 MHz		
6CH	2430 MHz	12CH	2460 MHz		

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 see below:

Channel	Frequency
The Lowest channel(CH1)	2403MHz
The Middle channel(CH9)	2440MHz
The Highest channel(CH16)	2473MHz



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

5.4 Description of Support Units

The EUT has been tested independently.

5.5 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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



5.6 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 10m 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.: G-823, R-4188, T-1153 and C-2383 respectively.

- **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 No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



5.10 Equipment List

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2015-10-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13

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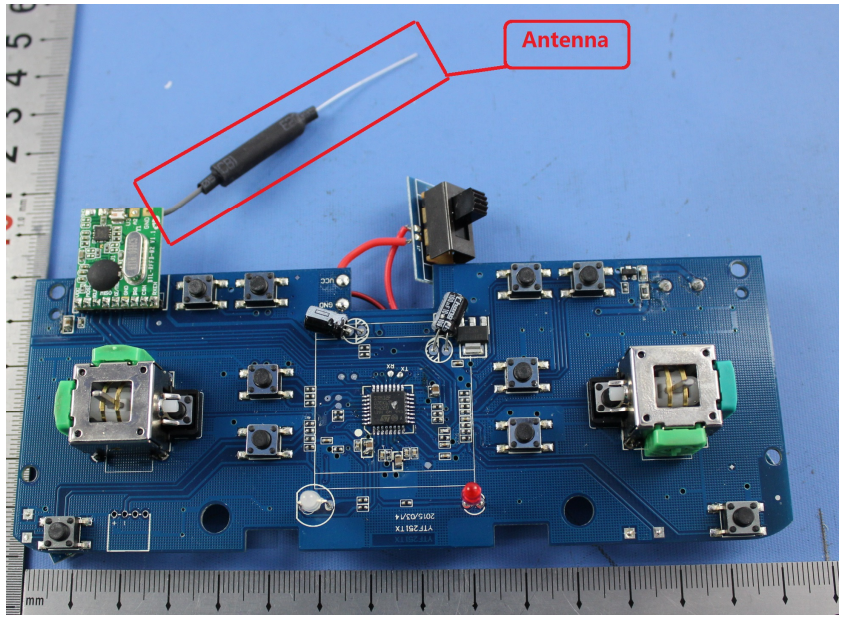
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RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R & S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
<p>15.203 requirement:</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.</p>	



6.2 Spurious Emissions

6.2.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209				
Test Method:	ANSI C63.10: 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F (kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F (kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	
		114.0		Peak Value	
Test Setup:					

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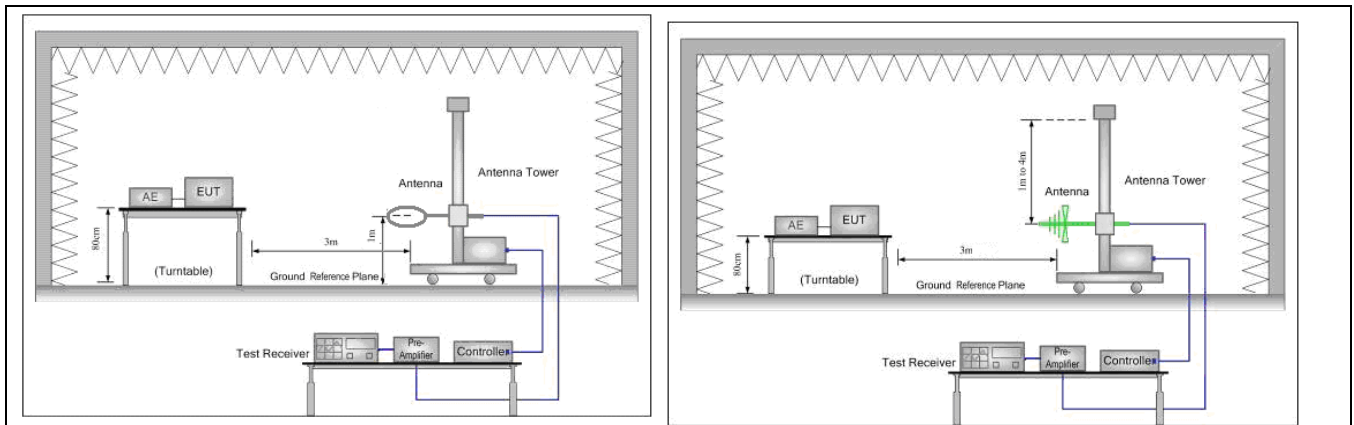


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

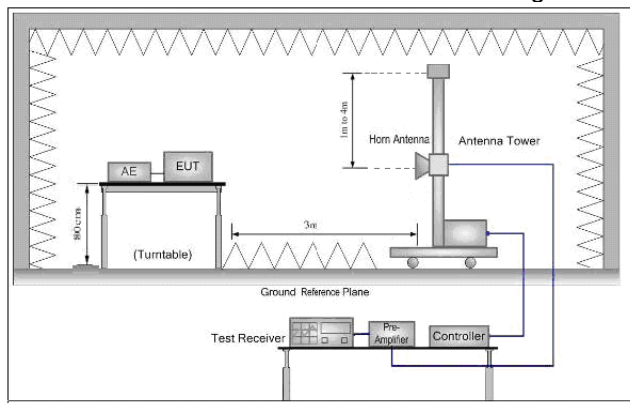


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. Test the EUT in the lowest channel, the middle channel, the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
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	i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting mode
Test Results:	Pass

Measurement Data

6.2.1.1 Field Strength Of The Fundamental Signal

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
2403	4.92	32.41	38.46	106.34	105.21	114.00	-8.79
2440	4.97	32.42	38.46	109.11	108.04	114.00	-5.96
2473	5.01	32.44	38.46	106.22	105.21	114.00	-8.79

Average value

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
2403	4.92	32.41	38.46	87.23	86.10	94.00	-7.90
2440	4.97	32.42	38.46	89.6	88.53	94.00	-5.47
2473	5.01	32.44	38.46	86.57	85.56	94.00	-8.42

Note:

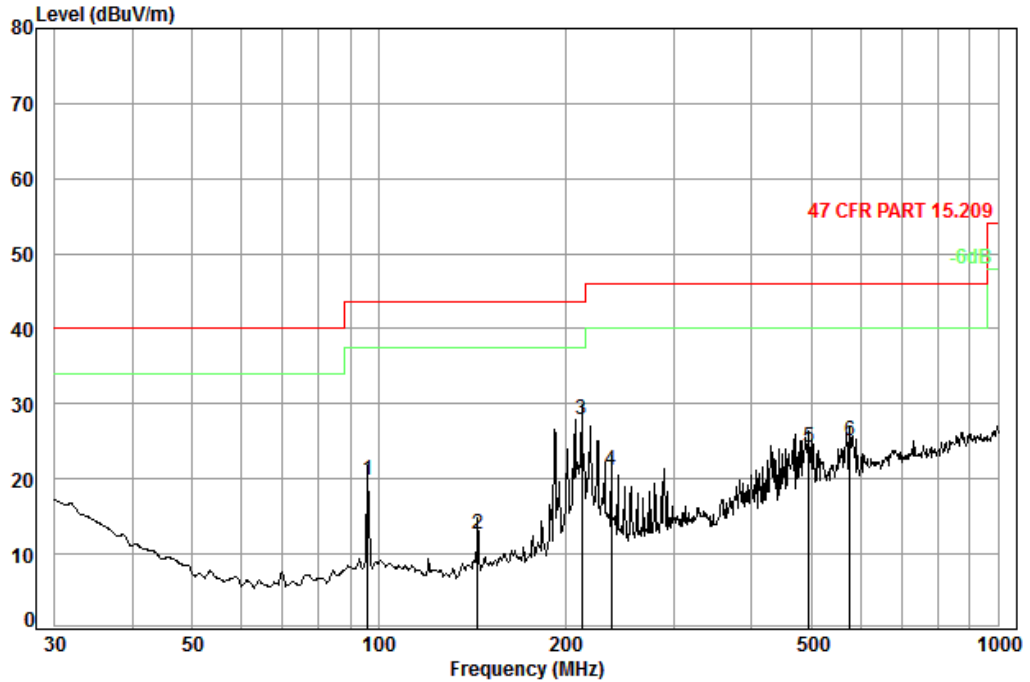
Pre-scan all the Vertical and Horizontal polarity and found the Vertical polarity which is the worse case, so only the the data of Vertical polarity is shown in this report.



6.2.1.2 Spurious Emissions

30MHz~1GHz		
Test mode:	Transmitting	Horizontal

QP value:



Condition: 47 CFR PART 15.209 3m 3142C Horizontal

Job No. : 1771CR

Test mode: TX mode

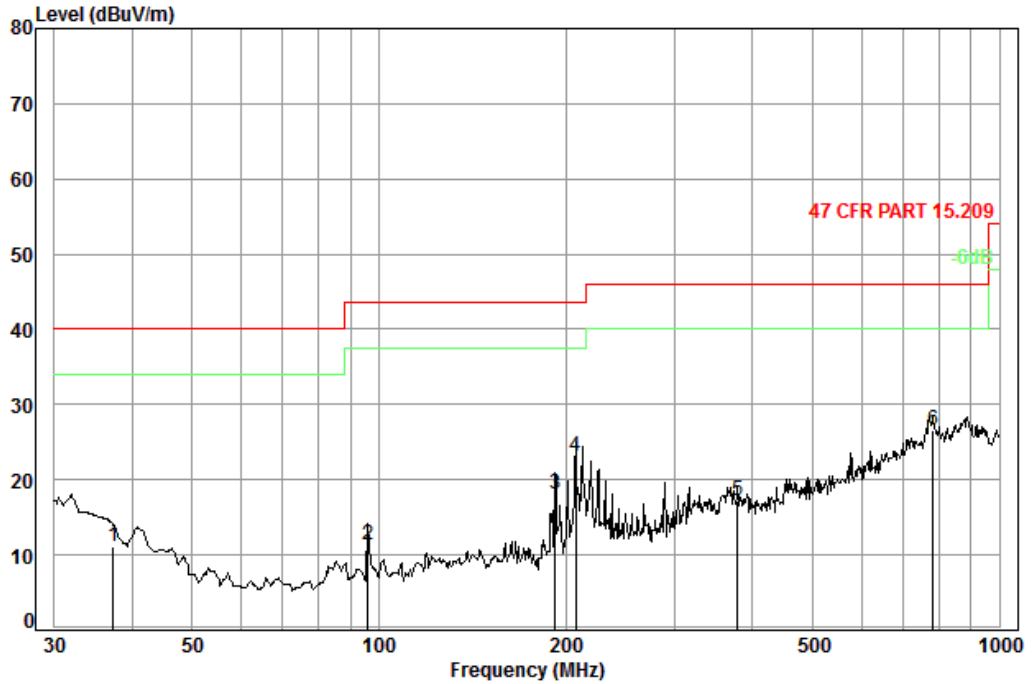
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	96.10	1.16	8.94	27.21	36.96	19.85	43.50	-23.65
2	144.33	1.31	8.49	26.94	29.89	12.75	43.50	-30.75
3	213.02	1.48	10.88	26.65	42.11	27.82	43.50	-15.68
4	237.48	1.61	11.90	26.57	34.17	21.11	46.00	-24.89
5	495.93	2.59	17.80	27.68	31.58	24.29	46.00	-21.71
6	576.64	2.68	19.15	27.57	30.74	25.00	46.00	-21.00



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Test mode:	Transmitting	Vertical
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Condition: 47 CFR PART 15.209 3m 3142C Vertical

Job No. : 1771CR

Test mode: TX mode

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.29	0.60	14.62	27.33	23.15	11.04	40.00	-28.96
2	96.10	1.16	8.94	27.21	28.37	11.26	43.50	-32.24
3	192.42	1.39	10.12	26.73	33.24	18.02	43.50	-25.48
4	207.85	1.45	10.61	26.67	37.71	23.10	43.50	-20.40
5	378.58	2.14	16.04	26.99	25.93	17.12	46.00	-28.88
6	782.35	3.15	22.03	27.32	28.79	26.65	46.00	-19.35

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Above 1GHz									
Test mode:		Transmitting		Test channel:		Lowest		Remark:	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remak	
3442.058	7.08	32.83	38.72	45.94	47.13	74	-26.87	Peak	
3442.058	7.08	32.83	38.72	26.58	27.77	54	-26.23	Average	
4806.000	6.42	34.71	39.24	61.52	63.41	74	-10.59	Peak	
4806.000	6.42	34.71	39.24	42.68	44.57	54	-9.43	Average	
6025.661	8.07	36.27	39.18	45.97	51.13	74	-22.87	Peak	
6025.661	8.07	36.27	39.18	27.24	32.40	54	-21.60	Average	
7209.000	8.93	35.63	39.07	51.78	57.27	74	-16.73	Peak	
7209.000	8.93	35.63	39.07	32.54	38.03	54	-15.97	Average	
9612.000	9.99	37.34	37.93	43.40	52.80	74	-21.20	Peak	
9612.000	9.99	37.34	37.93	25.36	34.76	54	-19.24	Average	
11505.210	10.39	38.23	38.47	24.98	35.13	54	-18.87	Average	
11505.210	10.39	38.23	38.47	43.81	53.96	74	-20.04	Peak	

Test mode:		Transmitting		Test channel:		Lowest		Remark:	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remak	
3700.306	6.85	33.08	38.83	47.79	48.89	74	-25.11	Peak	
3700.306	6.85	33.08	38.83	28.54	29.64	54	-24.36	Average	
4806.000	6.42	34.71	39.24	63.47	65.36	74	-8.64	Peak	
4806.000	6.42	34.71	39.24	44.58	46.47	54	-7.53	Average	
6025.661	8.07	36.27	39.18	46.34	51.50	74	-22.50	Peak	
6025.661	8.07	36.27	39.18	27.51	32.67	54	-21.33	Average	
7209.000	8.93	35.63	39.07	53.40	58.89	74	-15.11	Peak	
7209.000	8.93	35.63	39.07	34.56	40.05	54	-13.95	Average	
9612.000	9.99	37.34	37.93	42.39	51.79	74	-22.21	Peak	
9612.000	9.99	37.34	37.93	23.14	32.54	54	-21.46	Average	
11112.540	10.31	38.11	38.28	43.78	53.92	74	-20.08	Peak	
11112.540	10.31	38.11	38.28	25.12	35.26	54	-18.74	Average	

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Test mode:		Transmitting		Test channel:		Middle		Remark:		Horizontal
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remak		
3482.133	7.00	32.87	38.73	45.63	46.77	74	-27.23	Peak		
3482.133	7.00	32.87	38.73	26.54	27.68	54	-26.32	Average		
4880.000	6.58	34.78	39.26	42.03	44.13	54	-9.87	Average		
4880.000	6.58	34.78	39.26	61.02	63.12	74	-10.88	Peak		
5999.562	8.08	36.30	39.18	27.34	32.54	54	-21.46	Average		
5999.562	8.08	36.30	39.18	46.32	51.52	74	-22.48	Peak		
7320.000	9.07	35.51	39.06	34.21	39.73	54	-14.27	Average		
7320.000	9.07	35.51	39.06	53.20	58.72	74	-15.28	Peak		
9760.000	9.90	37.80	37.84	41.81	51.67	74	-22.33	Peak		
9760.000	9.90	37.80	37.84	22.21	32.07	54	-21.93	Average		
11656.010	10.46	38.36	38.54	24.53	34.81	54	-19.19	Average		
11656.010	10.46	38.36	38.54	43.73	54.01	74	-19.99	Peak		

Test mode:		Transmitting		Test channel:		Middle		Remark:		Vertical
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remak		
3512.494	6.96	32.91	38.75	45.80	46.92	74	-27.08	Peak		
3512.494	6.96	32.91	38.75	26.32	27.44	54	-26.56	Average		
4880.000	6.58	34.78	39.26	61.81	63.91	74	-10.09	Peak		
4880.000	6.58	34.78	39.26	42.56	44.66	54	-9.34	Average		
6034.386	8.07	36.26	39.18	46.32	51.47	74	-22.53	Peak		
6034.386	8.07	36.26	39.18	27.56	32.71	54	-21.29	Average		
7320.000	9.07	35.51	39.06	51.13	56.65	74	-17.35	Peak		
7320.000	9.07	35.51	39.06	32.15	37.67	54	-16.33	Average		
9760.000	9.90	37.80	37.84	41.63	51.49	74	-22.51	Peak		
9760.000	9.90	37.80	37.84	22.31	32.17	54	-21.83	Average		
11689.790	10.47	38.39	38.56	24.76	35.06	54	-18.94	Average		
11689.790	10.47	38.39	38.56	43.87	54.17	74	-19.83	Peak		

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Test mode:		Transmitting		Test channel:		Highest		Remark:		Horizontal
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remak		
3743.387	6.83	33.11	38.85	46.00	47.09	74	-26.91	Peak		
3743.387	6.83	33.11	38.85	26.58	27.67	54	-26.33	Average		
4946.000	6.73	34.85	39.28	61.97	64.27	74	-9.73	Peak		
4946.000	6.73	34.85	39.28	42.64	44.94	54	-9.06	Average		
6095.816	8.06	36.19	39.17	45.93	51.01	74	-22.99	Peak		
6095.816	8.06	36.19	39.17	26.87	31.95	54	-22.05	Average		
7419.000	9.20	35.43	39.05	50.67	56.25	74	-17.75	Peak		
7419.000	9.20	35.43	39.05	31.58	37.16	54	-16.84	Average		
9892.000	9.83	38.19	37.76	42.36	52.62	74	-21.38	Peak		
9892.000	9.83	38.19	37.76	23.64	33.90	54	-20.10	Average		
11455.380	10.38	38.19	38.45	45.19	55.31	74	-18.69	Peak		
11455.380	10.38	38.19	38.45	27.24	37.36	54	-16.64	Average		

Test mode:		Transmitting		Test channel:		Highest		Remark:		Vertical
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remak		
3442.058	7.08	32.83	38.72	45.86	47.05	74	-26.95	Peak		
3442.058	7.08	32.83	38.72	26.54	27.73	54	-26.27	Average		
4946.000	6.73	34.85	39.28	60.97	63.27	74	-10.73	Peak		
4946.000	6.73	34.85	39.28	41.55	43.85	54	-10.15	Average		
6095.816	8.06	36.19	39.17	45.93	51.01	74	-22.99	Peak		
6095.816	8.06	36.19	39.17	26.54	31.62	54	-22.38	Average		
7419.000	9.20	35.43	39.05	52.67	58.25	74	-15.75	Peak		
7419.000	9.20	35.43	39.05	33.25	38.83	54	-15.17	Average		
9892.000	9.83	38.19	37.76	42.35	52.61	74	-21.39	Peak		
9892.000	9.83	38.19	37.76	23.50	33.76	54	-20.24	Average		
11455.380	10.38	38.19	38.45	45.19	55.31	74	-18.69	Peak		
11455.380	10.38	38.19	38.45	26.24	36.36	54	-17.64	Average		

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

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6.3 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209		
Test Method:	ANSI C63.10: 2009		
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit(band edge):	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.		
	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 Setup:			

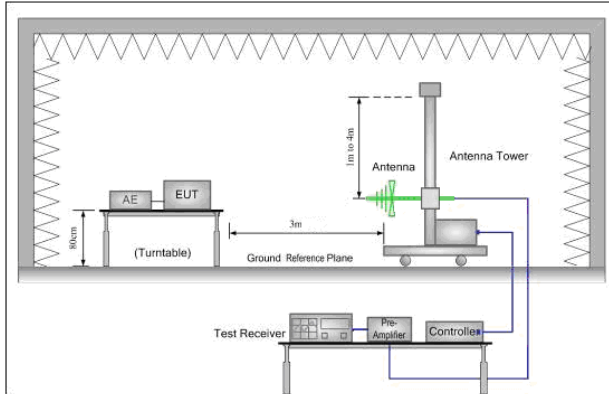


Figure 1. 30MHz to 1GHz

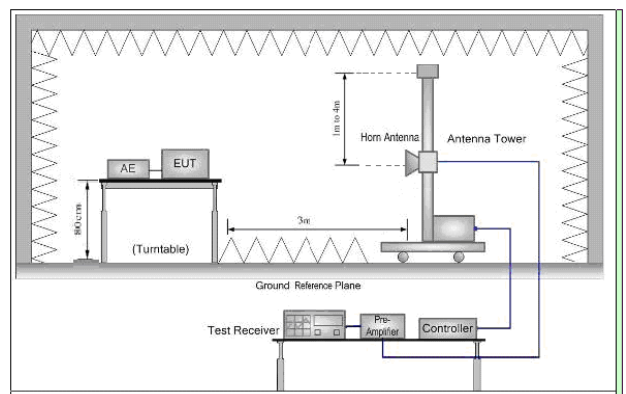


Figure 2. Above 1 GHz



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Test Procedure:	<ol style="list-style-type: none">a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.c. 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.d. 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.e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case..i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting mode
Test Results:	Pass



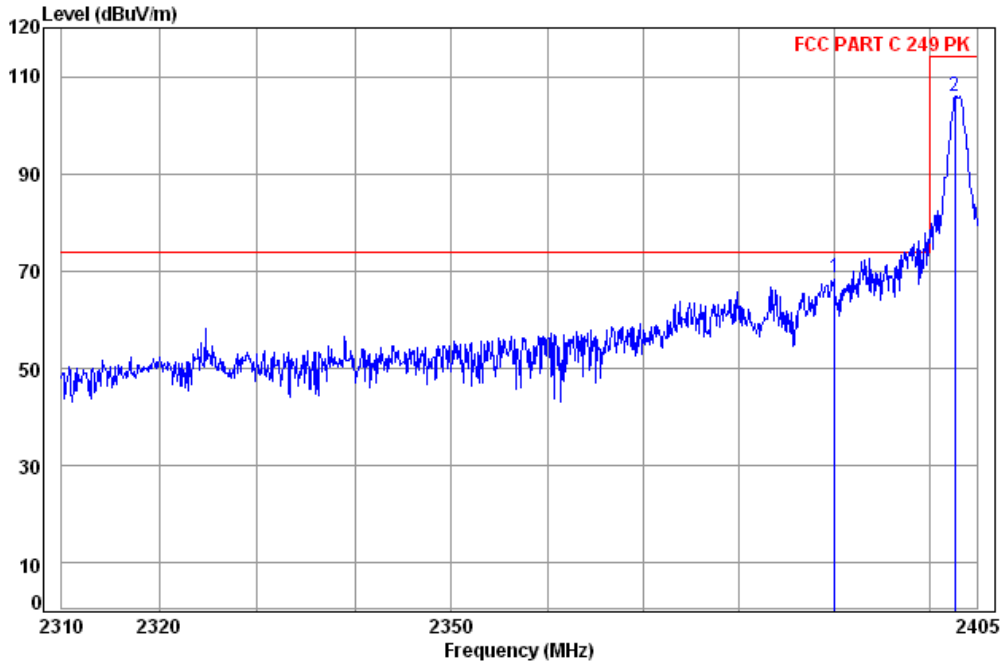
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Band edge (Radiated Emission)						
Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak	Horizontal

Data: 313



Site : chamber
 Condition: FCC PART C 249 PK 3m Horizontal
 Job No: : 1771CR
 Mode: : 2403 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2390.00	4.90	32.35	38.46	69.75	68.54	74.00	-5.46
2	2402.68	4.92	32.41	38.46	106.93	105.80	114.00	-8.20

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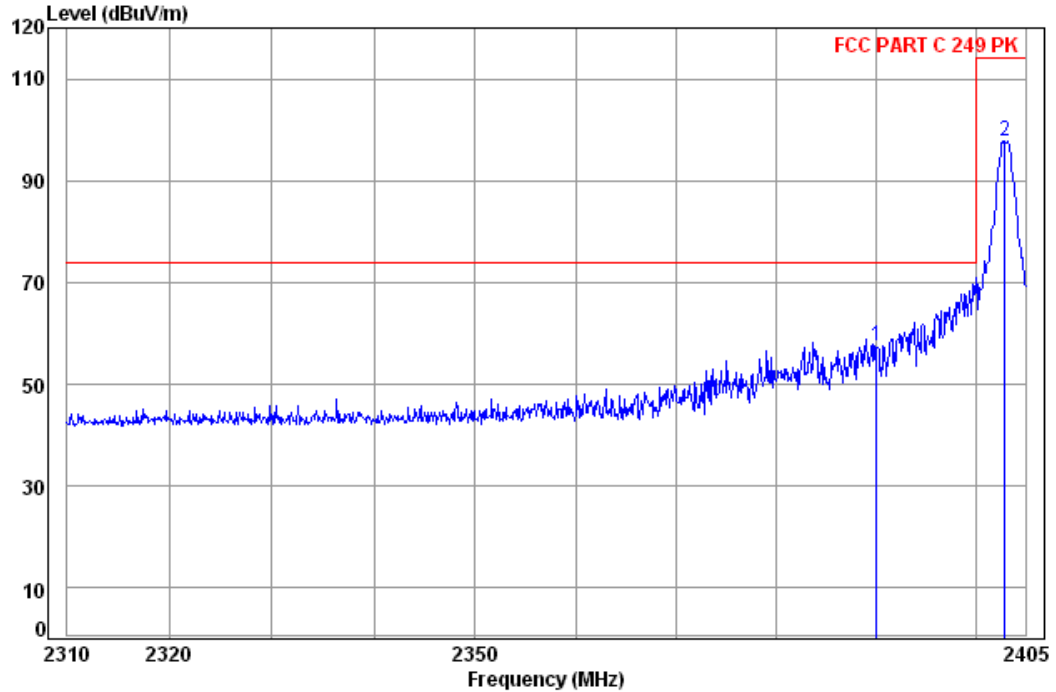
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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 314



Site : chamber
 Condition: FCC PART C 249 PK 3m Vertical
 Job No: : 1771CR
 Mode: : 2403 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	2390.00	4.90	32.35	38.46	58.78	57.57	74.00 -16.43
2 pp	2402.97	4.92	32.41	38.46	98.75	97.62	114.00 -16.38

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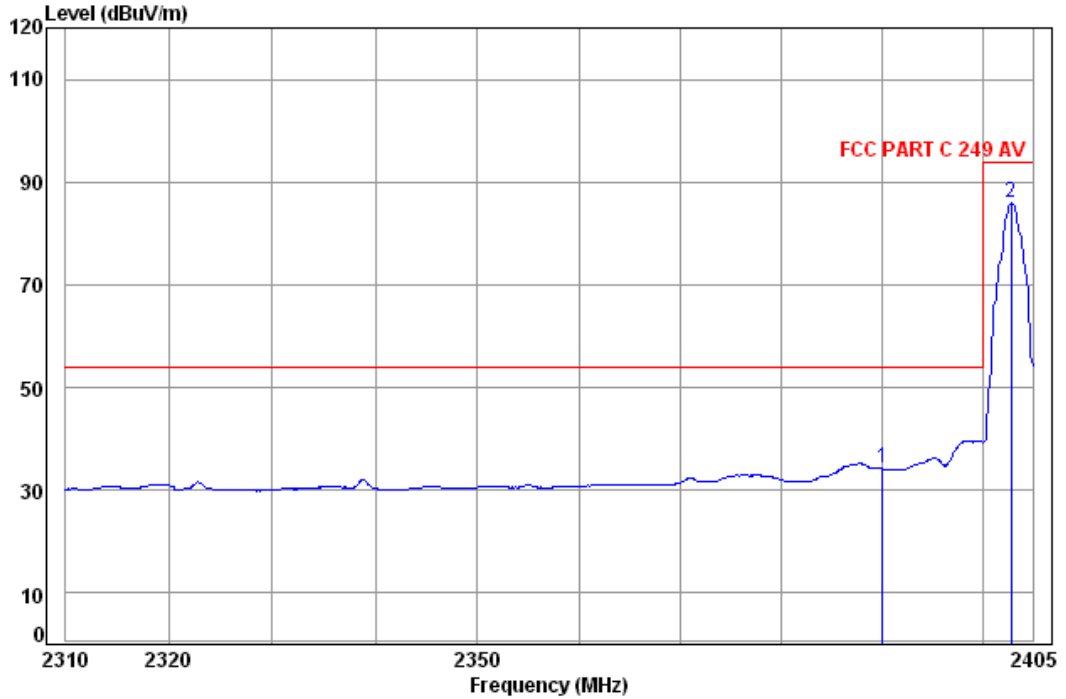
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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 299



Site : chamber
 Condition: FCC PART C 249 AV 3m Horizontal
 Job No: : 1771CR
 Mode: : 2403 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	35.51	34.30	54.00	-19.70
2 pp	2402.87	4.92	32.41	38.46	87.01	85.88	94.00	-8.12

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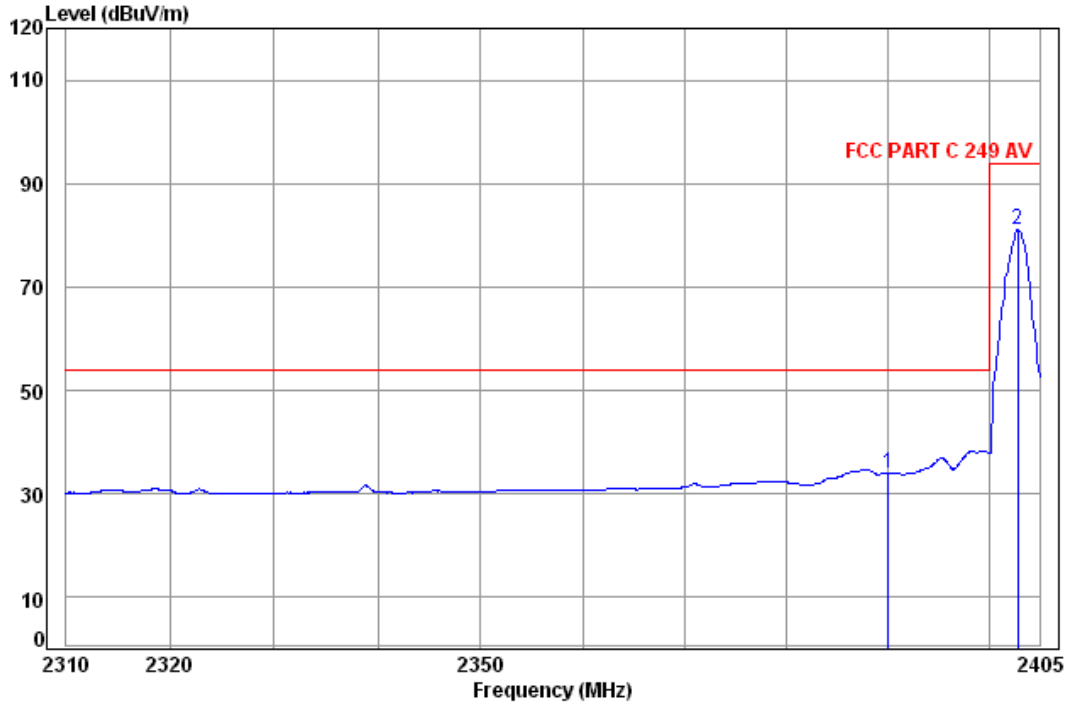
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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 297



Site : chamber
 Condition: FCC PART C 249 AV 3m Vertical
 Job No: : 1771CR
 Mode: : 2403 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	35.35	34.14	54.00	-19.86
2 pp	2402.87	4.92	32.41	38.46	82.16	81.03	94.00	-12.97



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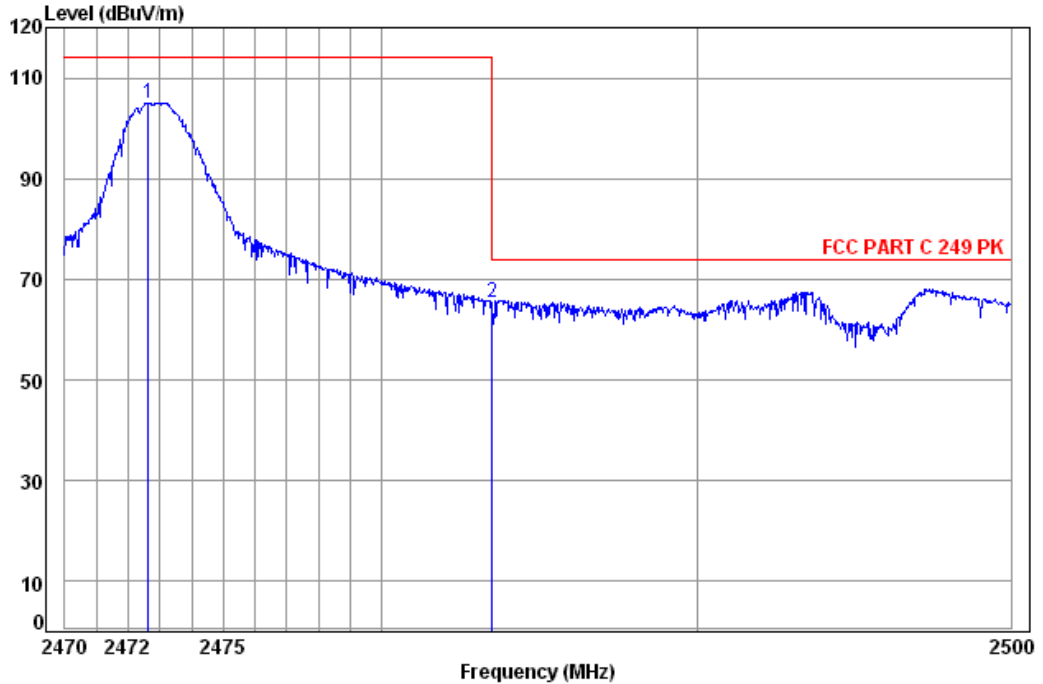
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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 316



Site : chamber
 Condition: FCC PART C 249 PK 3m Horizontal
 Job No: : 1771CR
 Mode: : 2473 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2472.63	5.01	32.44	38.46	106.05	105.04	114.00	-8.96
2 pp	2483.50	5.03	32.44	38.47	66.48	65.48	74.00	-8.52

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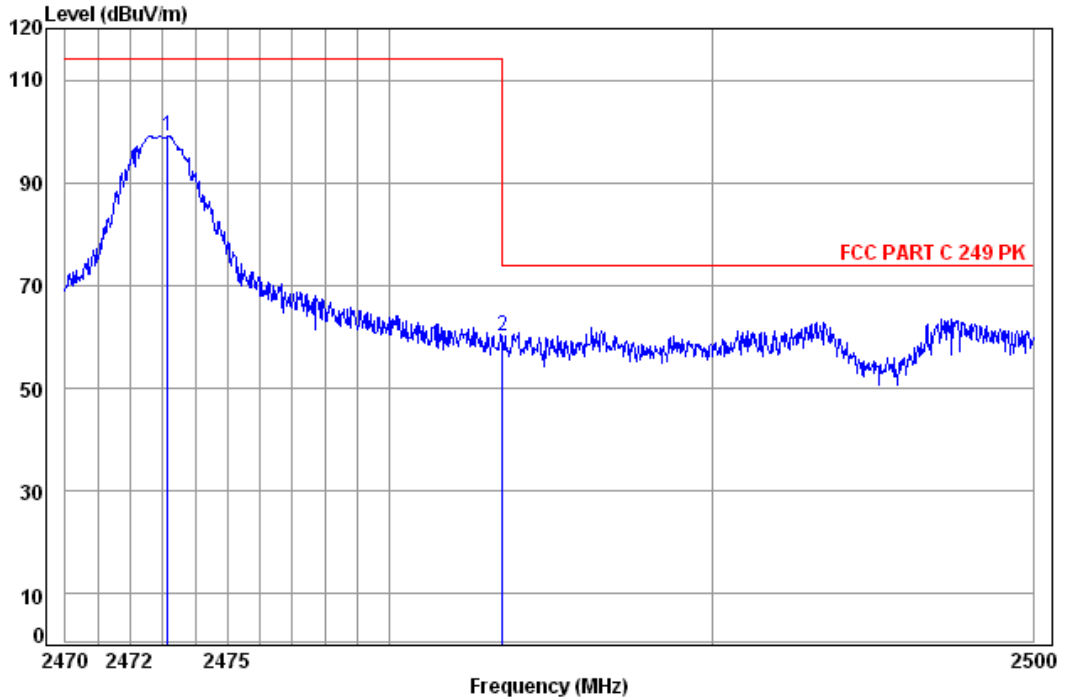
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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 315



Site : chamber
 Condition: FCC PART C 249 PK 3m Vertical
 Job No: : 1771CR
 Mode: : 2473 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2473.16	5.01	32.44	38.46	100.03	99.02	114.00	-14.98
2 pp	2483.50	5.03	32.44	38.47	61.13	60.13	74.00	-13.87

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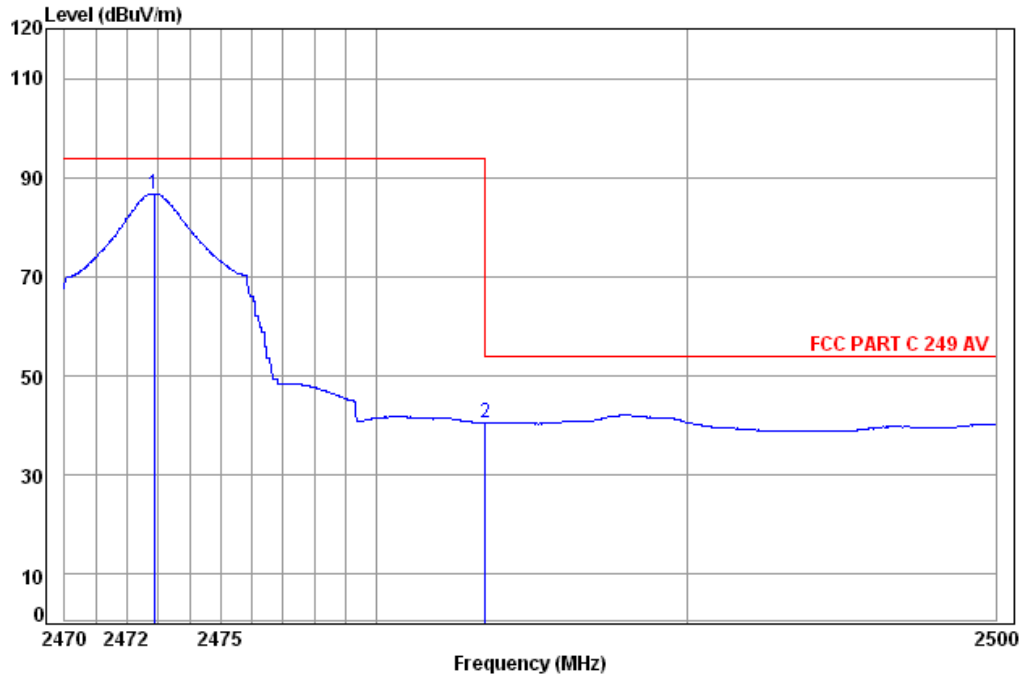
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Test mode:	Transmitting	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 301



Site : chamber
 Condition: FCC PART C 249 AV 3m Horizontal
 Job No: : 1771CR
 Mode: : 2473 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2472.86	5.01	32.44	38.46	87.81	86.80	94.00 -7.20
2	2483.50	5.03	32.44	38.47	41.44	40.44	54.00 -13.56

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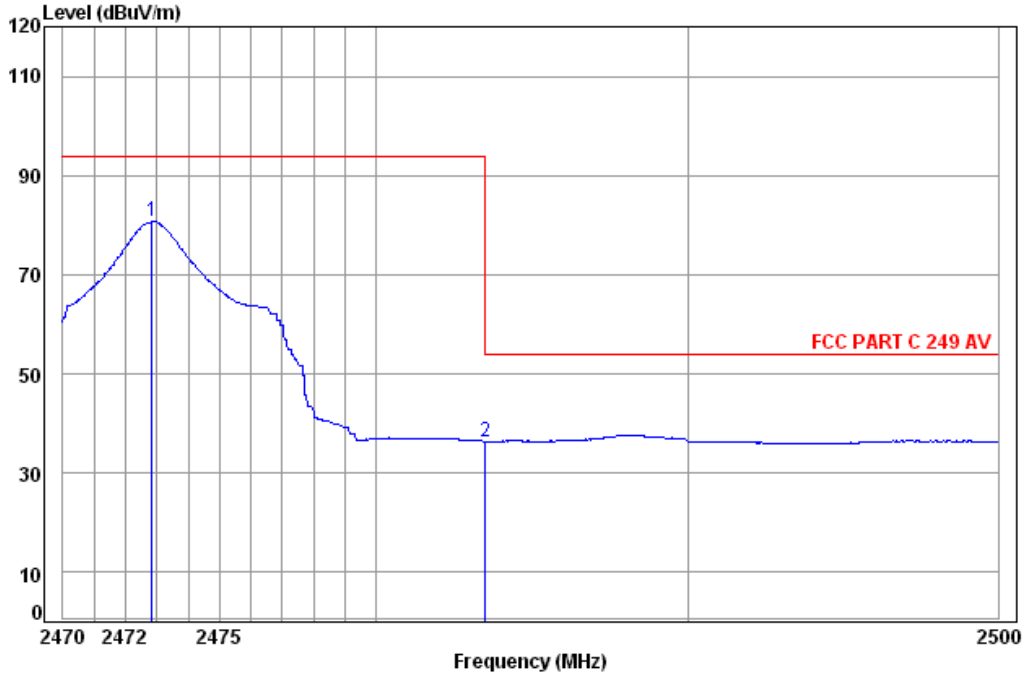
SGS-CSTC Standards Technical Services Ltd.

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Average	Vertical
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Data: 303



Site : chamber
 Condition: FCC PART C 249 AV 3m Vertical
 Job No: : 1771CR
 Mode: : 2473 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2472.83	5.01	32.44	38.46	81.72	80.71	94.00	-13.29
2	2483.50	5.03	32.44	38.47	37.40	36.40	54.00	-17.60

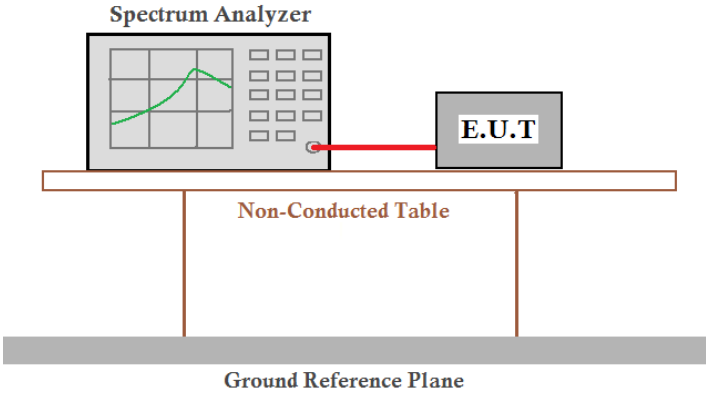
Note:

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

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

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6.4 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2009
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>
Instruments Used:	Refer to section 5.10 for details
Test mode:	Transmitting mode
Limit:	N/A
Test Results:	Pass

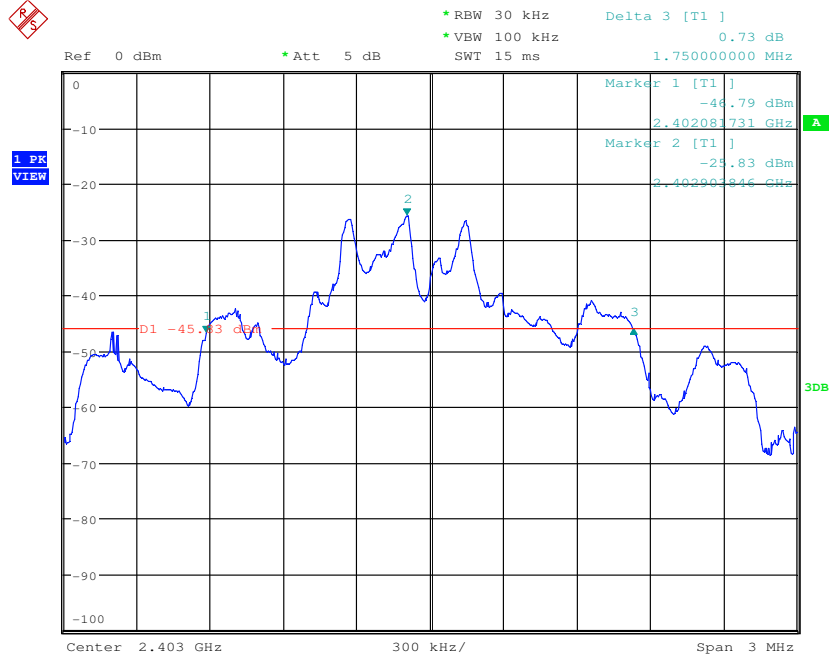
Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.750	Pass
Middle	0.827	Pass
Highest	1.990	Pass

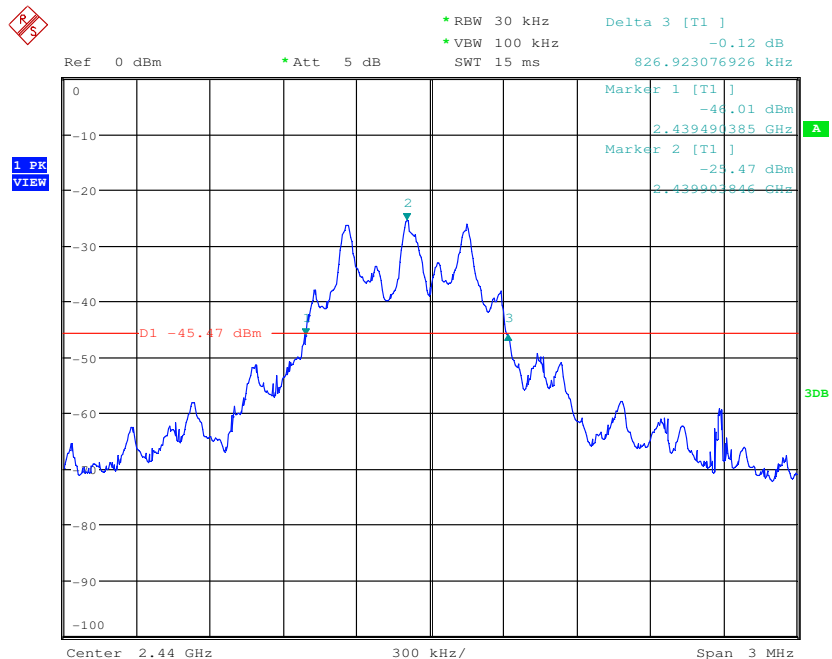


Test plot as follows:

Test channel:	Lowest
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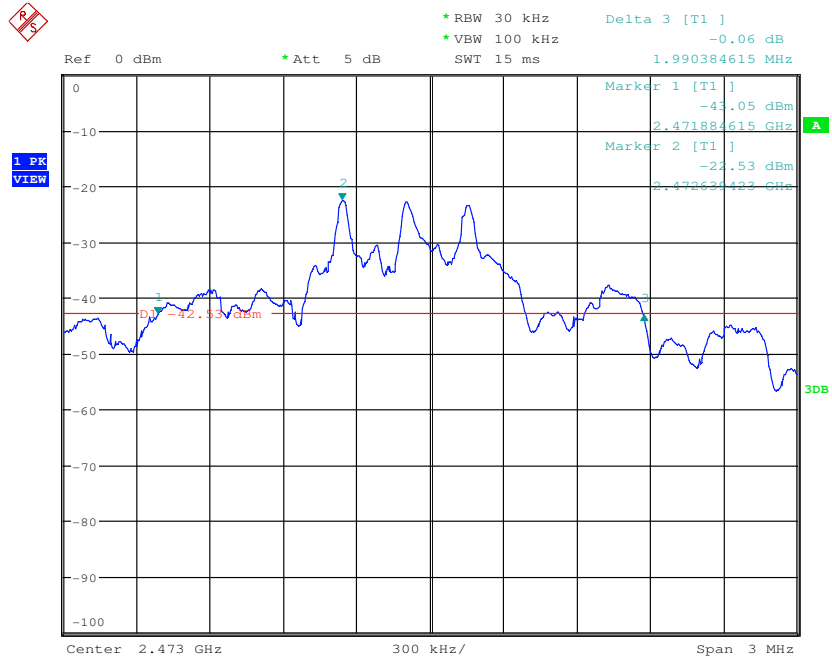
Test channel:	Middle
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Test channel:	Highest
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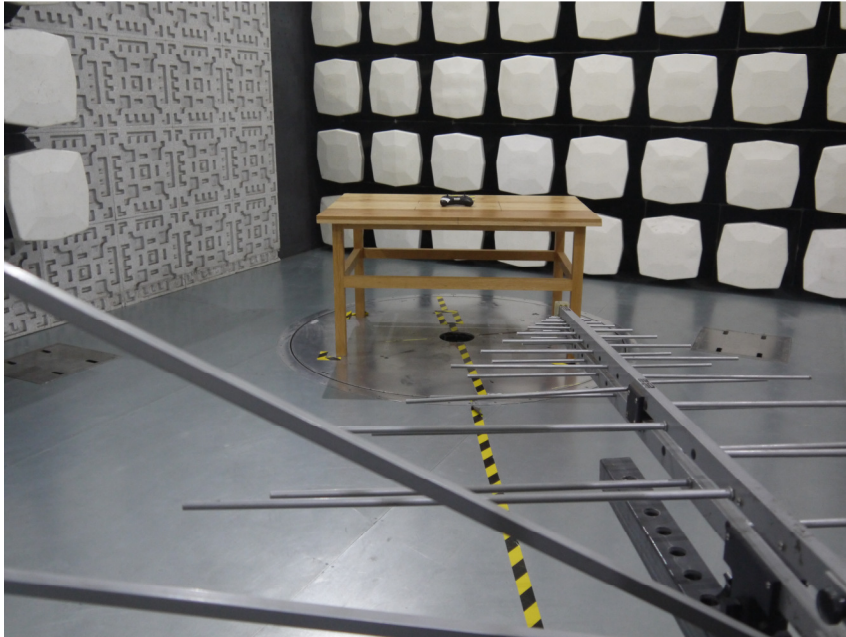


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7 Photographs

Test model No.: VISTA 251 QUAD RTF

7.1 Radiated Emission Test Setup





7.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1504001771CR.