



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

Email: sgs_internet_operations@sgs.com

Report No.: SZEMO10110705402

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FCC REPORT

Application No. : SZEMO101107054RF
Applicant: Yin Fei Da Technology Co., Ltd
Product Name: 2.4G Controller
Operation Frequency: 2402MHz to 2480MHz
FCC ID: Y3F0001
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2009
Date of Receipt 2010-11-18
Date of Test 2010-11-30 to 2010-12-14
Date of Issue 2011-01-06

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

This report supersedes our previous report SZEMO10110705401, issued on 2010-12-15, which is hereby deemed null and void.

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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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249/15.209	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass
Band edge (Radiated Emission)	15.249(a)/15.205	Pass

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

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



4 General Information

4.1 Client Information

Applicant:	Yin Fei Da Technology Co., Ltd
Address of Applicant:	Unit 2313, 23/F Digital Era Tower Tian An Digital City Futian Zone Shenzhen China
Manufacturer:	Triple Delta Ltd
Address of Manufacturer:	Suite 1912 ,19/F,Tower 1,The Gateway, 25 Canton Rd ,Tsimshatsui, Kowloon, Hong kong

4.2 General Description of E.U.T.

Product Name:	2.4G Controller
Trade Name:	N/A
Model No.:	YFD001
Operation Frequency:	2402MHz to 2480MHz
Number of Channel:	79
Channel separation:	1MHz
Modulation type:	GFSK
Antenna gain:	0dBi
Antenna Type:	Integral
Power supply:	Battery cell: 2X1.5V(AAA)=3.0V



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Operation Frequency of each channel							
CH0	2402	CH21	2423	CH42	2444	CH63	2465
CH1	2403	CH22	2424	CH43	2445	CH64	2466
CH2	2404	CH23	2425	CH44	2446	CH65	2467
CH3	2405	CH24	2426	CH45	2447	CH66	2468
CH4	2406	CH25	2427	CH46	2448	CH67	2469
CH5	2407	CH26	2428	CH47	2449	CH68	2470
CH6	2408	CH27	2429	CH48	2450	CH69	2471
CH7	2409	CH28	2430	CH49	2451	CH70	2472
CH8	2410	CH29	2431	CH50	2452	CH71	2473
CH9	2411	CH30	2432	CH51	2453	CH72	2474
CH10	2412	CH31	2433	CH52	2454	CH73	2475
CH11	2413	CH32	2434	CH53	2455	CH74	2476
CH12	2414	CH33	2435	CH54	2456	CH75	2477
CH13	2415	CH34	2436	CH55	2457	CH76	2478
CH14	2416	CH35	2437	CH56	2458	CH77	2479
CH15	2417	CH36	2438	CH57	2459	CH78	2480
CH16	2418	CH37	2439	CH58	2460		
CH17	2419	CH38	2440	CH59	2461		
CH18	2420	CH39	2441	CH60	2462		
CH19	2421	CH40	2442	CH61	2463		
CH20	2422	CH41	2443	CH62	2464		

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 channels are:

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:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Normal operation mode:	Keep the EUT connect with the PS2.
Transmitting mode:	EUT transmitted continuous with modulation signal at the specific channel.
Idle mode:	Keep the EUT at Idle mode

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.

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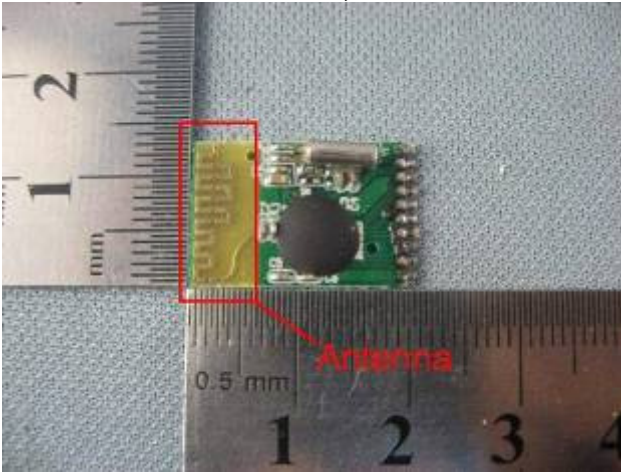
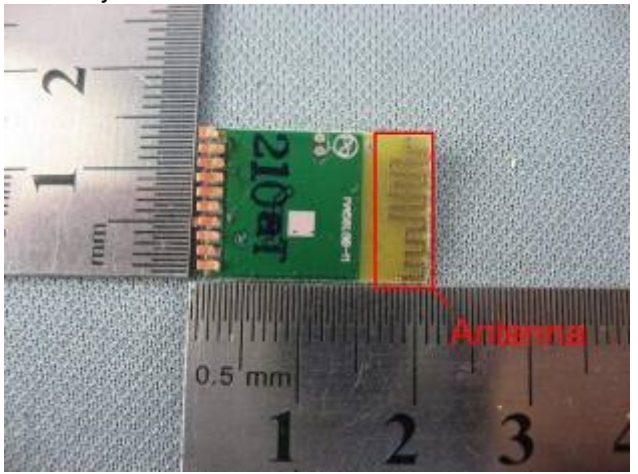
4.7 Test Instruments list:

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	2010-11-05	2011-11-05
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	2010-11-09	2011-11-09
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2010-11-09	2011-11-09
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2010-11-09	2011-11-09
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	2010-10-27	2011-10-27
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

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5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement: 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>	
E.U.T Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi, There is one antenna that have layout two sides.</p>	
<div style="display: flex; justify-content: space-around;">   </div>	



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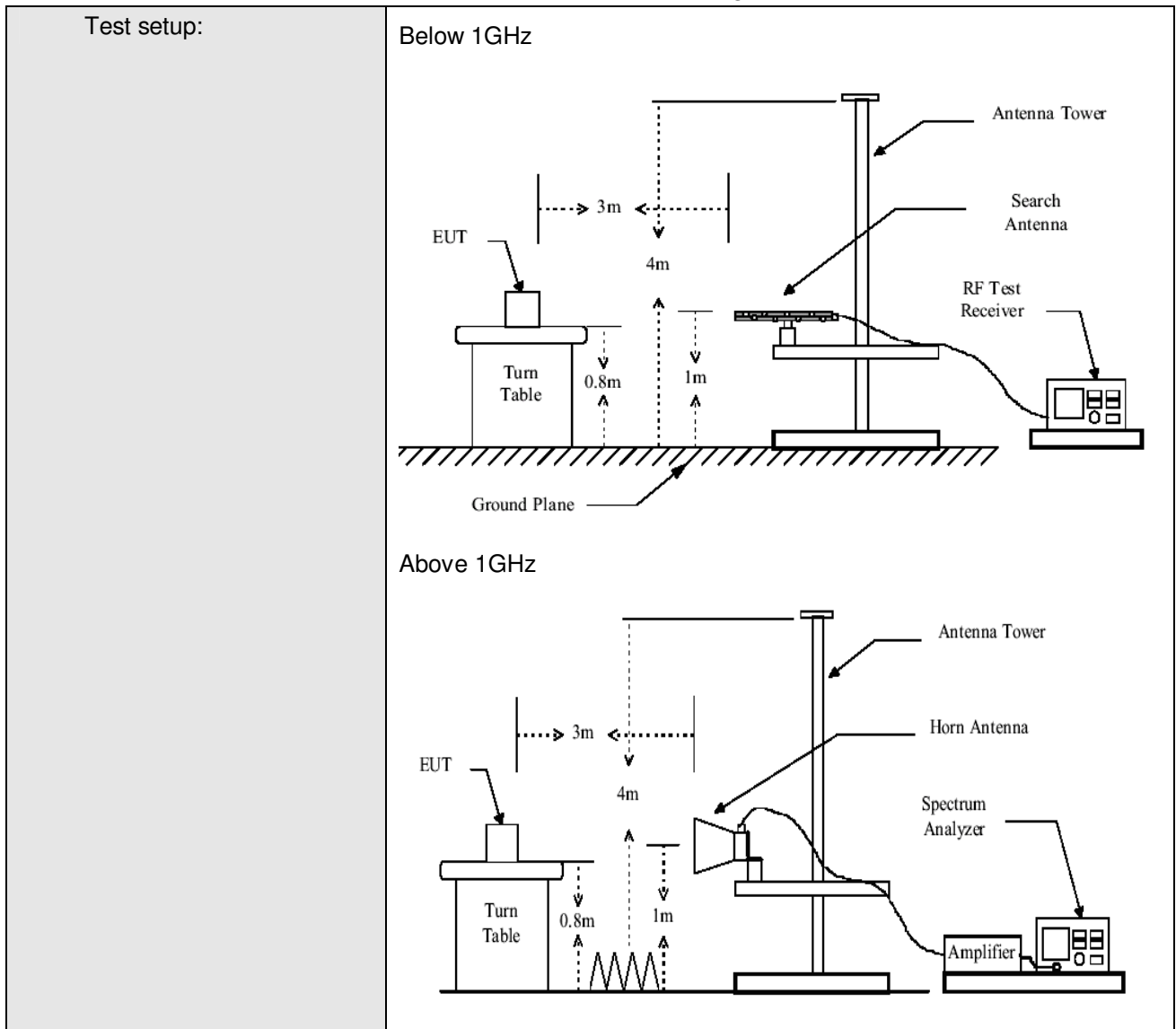
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5.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249, 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:	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: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.0		Average Value
			114.0		Peak Value
Limit: (Spurious Emissions)	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:	<div>1. The EUT is placed on a turntable, which is 0.8m above ground plane.</div> <div>2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.</div> <div>3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.</div> <div>4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.</div> <div>5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.</div> <div>6. Repeat above procedures until the measurements for all frequencies are complete.</div> <div>7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.</div>				
Test Instruments:	Refer to section 4.7 for details				
Test mode:	Normal operation mode and transmitting mode				
Test result:	Pass				

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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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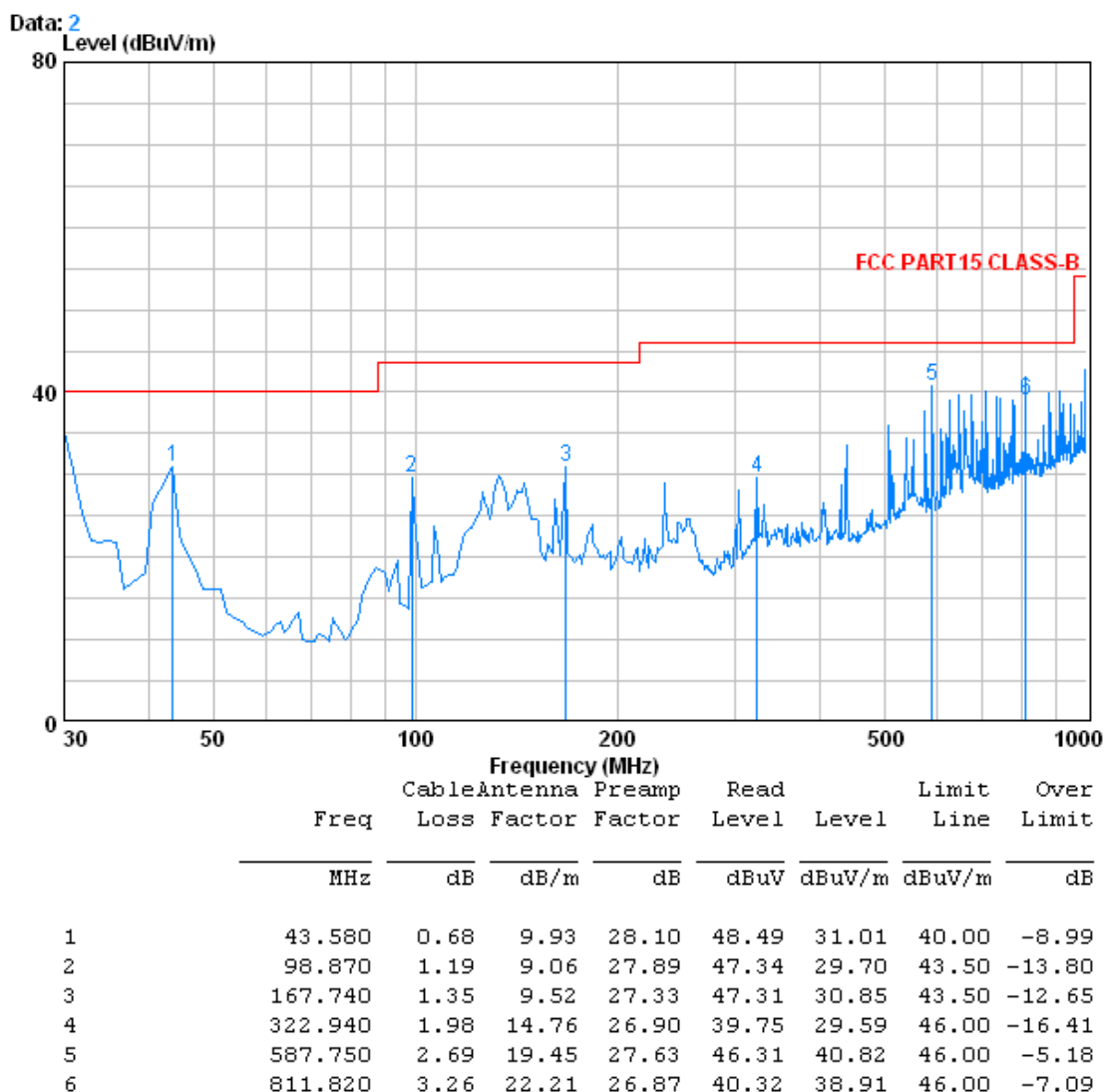
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Measurement Data

Normal operation mode

Vertical



Horizontal

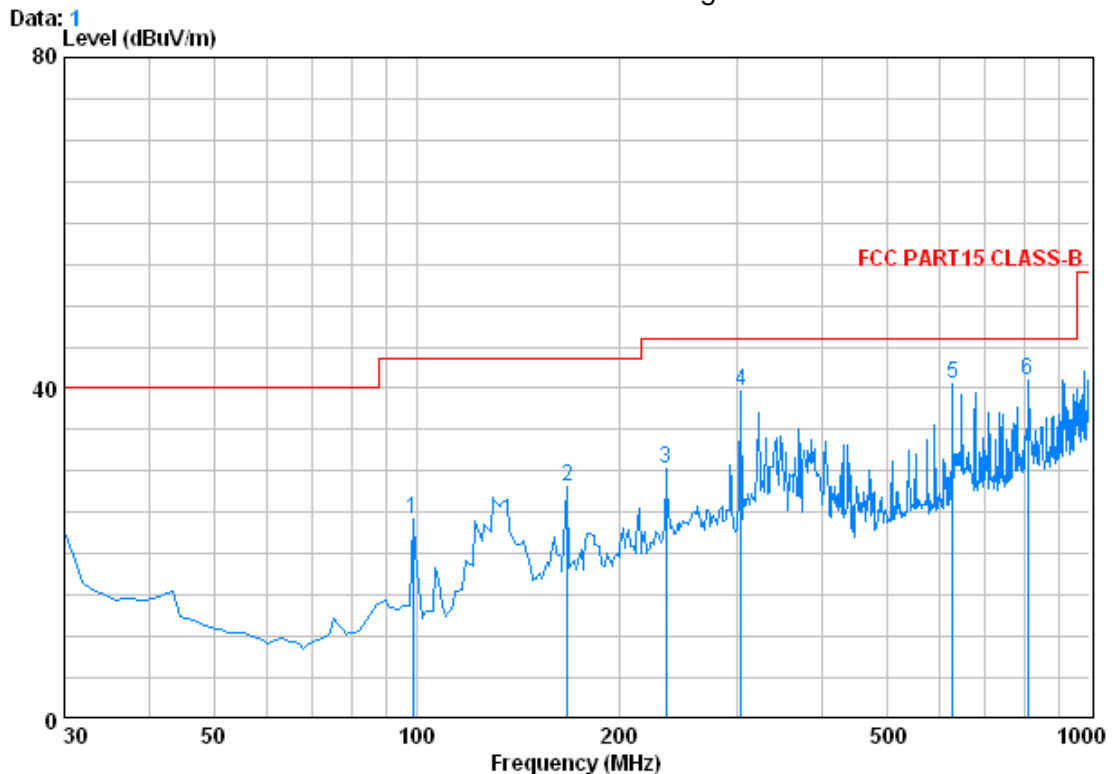
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		CableAntenna		Preampl	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	98.870	1.19	9.06	27.89	41.81	24.17	43.50	-19.33
2	167.740	1.35	9.52	27.33	44.59	28.13	43.50	-15.37
3	234.670	1.60	11.81	26.98	43.85	30.28	46.00	-15.72
4	303.540	1.91	14.03	26.75	50.43	39.62	46.00	-6.38
5	625.580	2.75	20.50	27.53	44.91	40.63	46.00	-5.37
6	808.910	3.24	22.21	26.89	42.41	40.98	46.00	-5.02

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5.2.1 Field Strength Of The Fundamental Signal

Test mode: Transmitting mode

Peak value:

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
2403.34	6.34	30.03	38.87	90.78	88.28	114.00	-25.72	Horizontal
2403.40	6.34	30.03	38.87	96.59	94.09	114.00	-19.91	Vertical
2441.38	6.40	30.18	38.59	93.11	91.10	114.00	-22.90	Horizontal
2441.36	6.40	30.18	38.59	93.64	91.63	114.00	-22.37	Vertical
2480.36	6.45	30.30	39.72	90.75	87.78	114.00	-26.22	Horizontal
2480.36	6.45	30.30	39.72	97.27	94.30	114.00	-19.70	Vertical

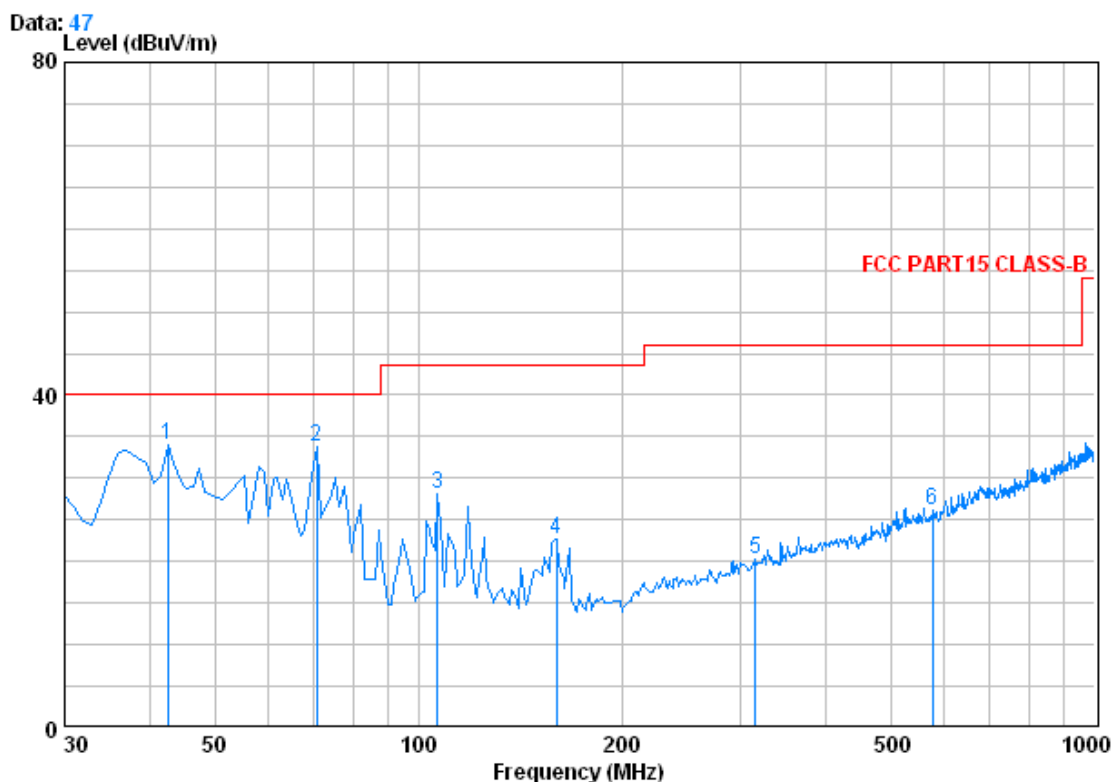
Average value:

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
2403.64	6.34	30.03	38.87	88.76	86.26	94.00	-7.74	Horizontal
2403.64	6.34	30.03	38.87	95.33	92.83	94.00	-1.17	Vertical
2441.62	6.40	30.18	38.59	89.89	87.88	94.00	-6.12	Horizontal
2441.62	6.40	30.18	38.59	91.80	89.79	94.00	-4.21	Vertical
2480.62	6.45	30.30	39.72	89.93	86.96	94.00	-7.04	Horizontal
2480.62	6.45	30.30	39.72	96.14	93.17	94.00	-0.83	Vertical

**5.2.2 Spurious Emissions****30MHz~1GHz****Test mode : Transmitting mode**

Lowest:

Vertical



	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	42.610	0.66	10.24	27.31	50.49	34.08	40.00	-5.92
2	70.740	0.83	6.97	27.25	53.16	33.71	40.00	-6.29
3	106.630	1.22	8.77	27.15	45.31	28.14	43.50	-15.36
4	159.980	1.34	9.60	26.86	38.59	22.67	43.50	-20.83
5	315.180	1.95	14.46	26.52	30.45	20.34	46.00	-25.66
6	576.110	2.68	19.16	27.57	31.79	26.06	46.00	-19.94

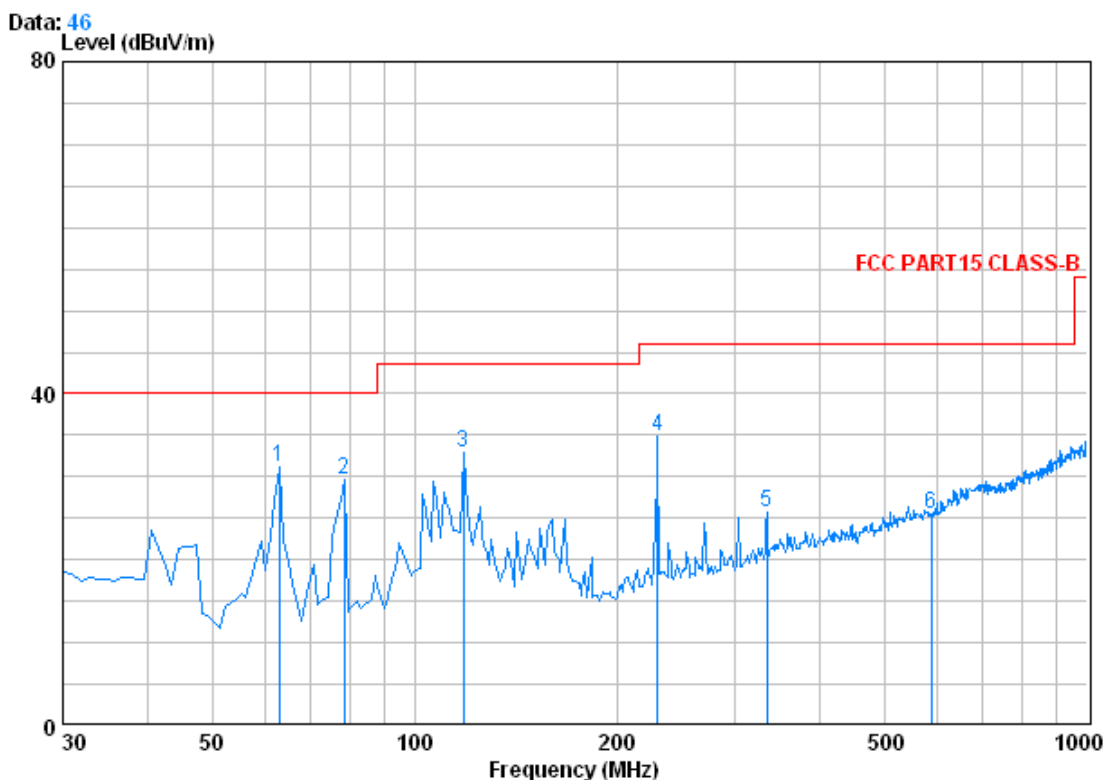


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Horizontal



		CableAntenna		Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	62.980	0.80	7.11	27.26	50.48	31.13	40.00	-8.87
2	78.500	1.05	7.59	27.23	48.13	29.54	40.00	-10.46
3	118.270	1.25	8.02	27.08	50.75	32.94	43.50	-10.56
4	229.820	1.57	11.64	26.59	48.36	34.98	46.00	-11.02
5	334.580	2.02	15.04	26.66	35.23	25.62	46.00	-20.38
6	586.780	2.69	19.39	27.56	30.95	25.47	46.00	-20.53

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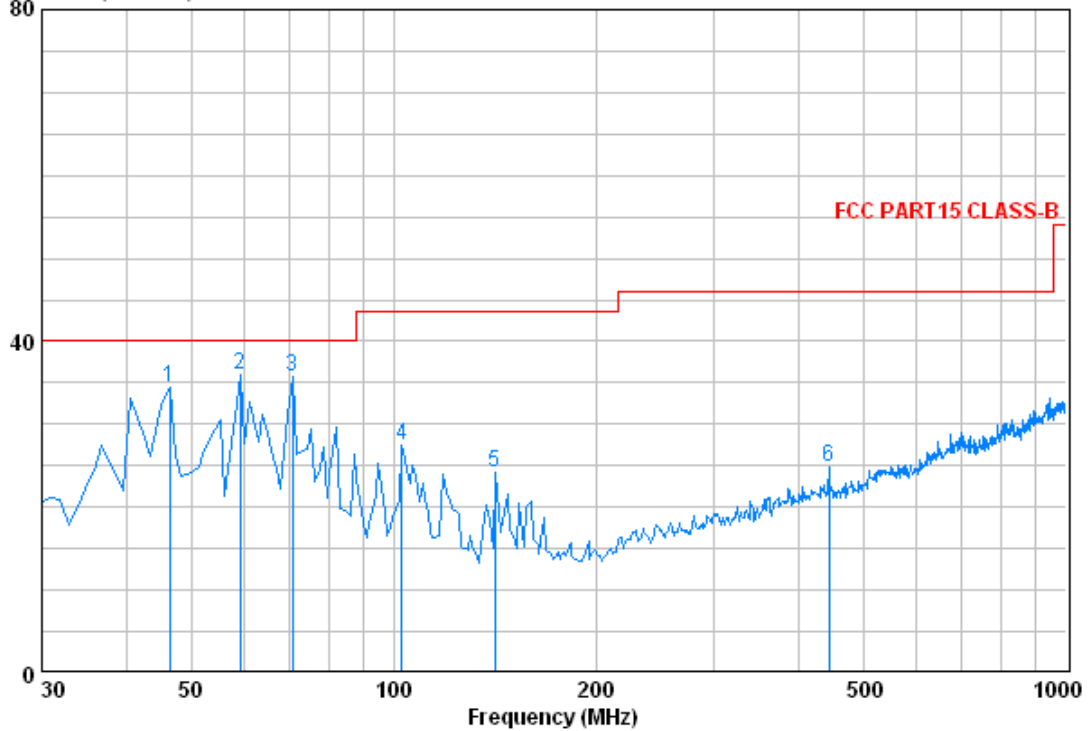
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Middle:

Vertical

Data: 48

Level (dBuV/m)



		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	46.490	0.74	9.03	27.30	52.02	34.49	40.00	-5.51
2	59.100	0.80	7.27	27.27	55.07	35.87	40.00	-4.13
3	70.740	0.83	6.97	27.25	55.11	35.66	40.00	-4.34
4	102.750	1.21	8.97	27.18	44.55	27.54	43.50	-15.96
5	141.550	1.30	8.24	26.95	41.70	24.29	43.50	-19.21
6	444.190	2.39	16.78	27.40	33.08	24.85	46.00	-21.15

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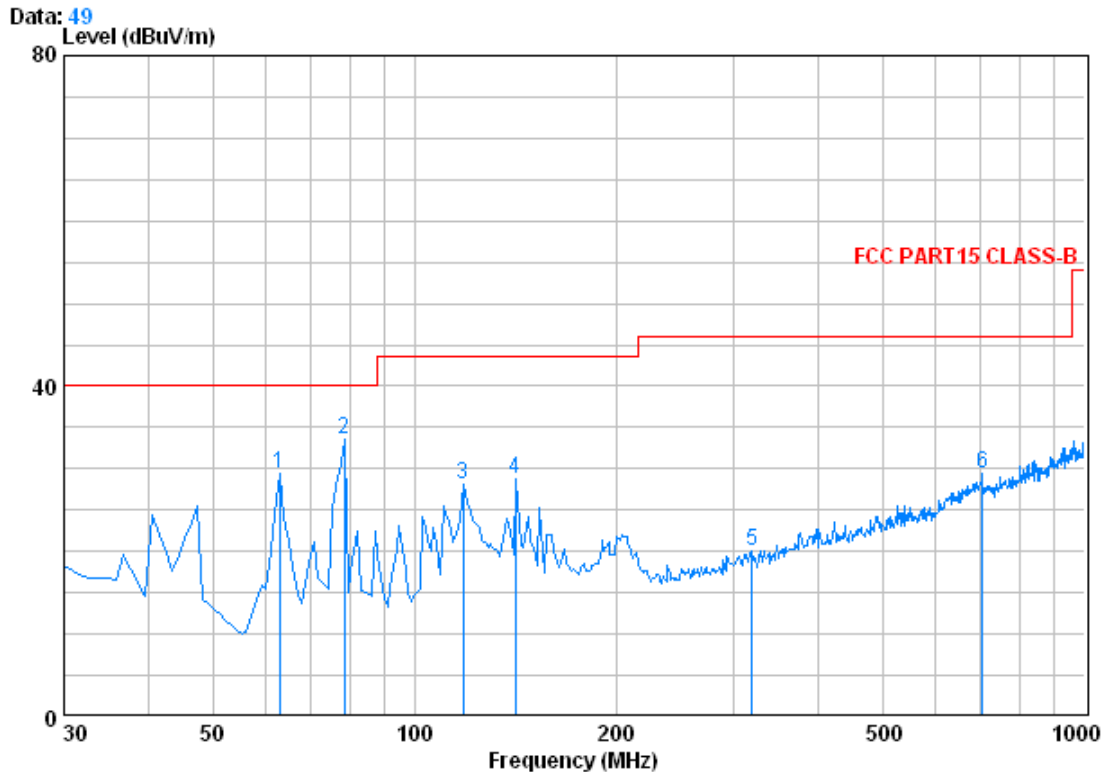


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Horizontal



	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Level	Limit	Over
	MHz	dB	dB/m	Factor	dBuV	dBuV/m	Line	Limit
1	62.980	0.80	7.11	27.26	48.73	29.37	40.00	-10.63
2	78.500	1.05	7.59	27.23	52.20	33.61	40.00	-6.39
3	118.270	1.25	8.02	27.08	45.89	28.09	43.50	-15.41
4	141.550	1.30	8.24	26.95	46.13	28.73	43.50	-14.77
5	319.060	1.96	14.59	26.54	30.15	20.16	46.00	-25.84
6	703.180	2.91	21.60	27.41	32.41	29.51	46.00	-16.49

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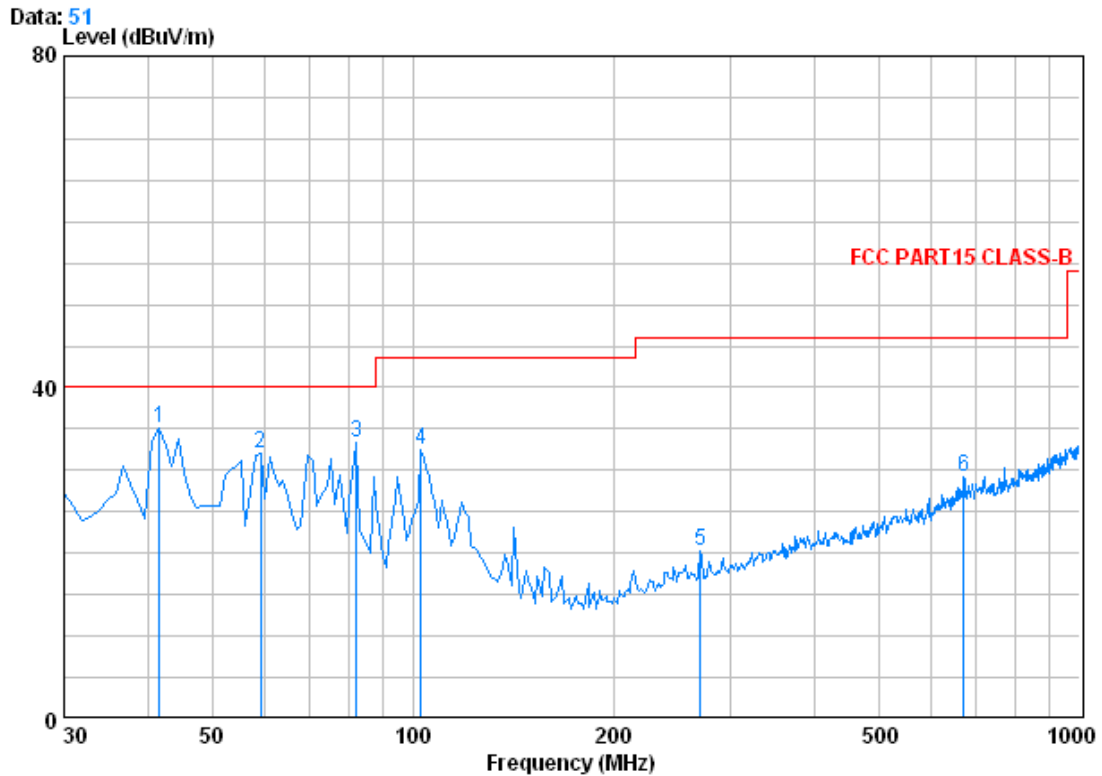


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Highest
Vertical



	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.640	0.64	10.62	27.31	51.22	35.16	40.00	-4.84
2	59.100	0.80	7.27	27.27	51.25	32.05	40.00	-7.95
3	82.380	1.10	7.95	27.23	51.43	33.25	40.00	-6.75
4	102.750	1.21	8.97	27.18	49.38	32.37	43.50	-11.13
5	269.590	1.77	12.70	26.48	32.31	20.31	46.00	-25.69
6	669.230	2.84	21.24	27.45	32.54	29.18	46.00	-16.82

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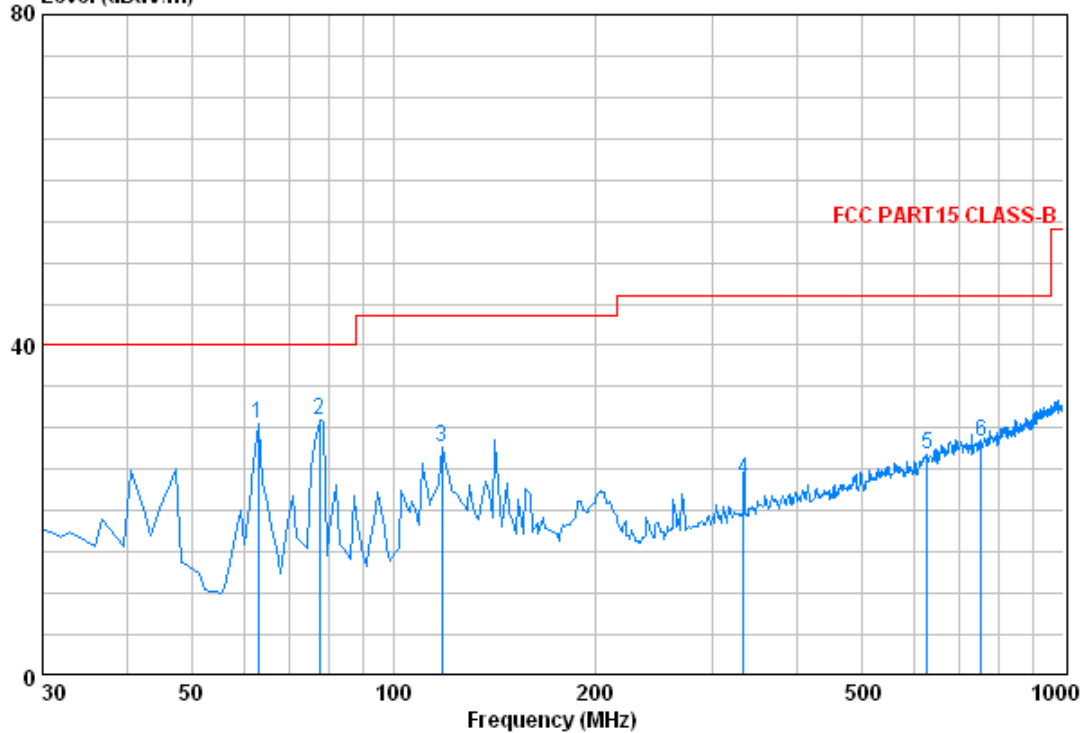
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Horizontal

Data: 50
Level (dBuV/m)



		Cable	Antenna	Preamp	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	62.980	0.80	7.11	27.26	49.89	30.54	40.00 -9.46
2	77.530	1.03	7.52	27.23	49.62	30.93	40.00 -9.07
3	118.270	1.25	8.02	27.08	45.56	27.75	43.50 -15.75
4	333.610	2.01	15.01	26.66	33.34	23.69	46.00 -22.31
5	625.580	2.75	20.50	27.51	31.11	26.86	46.00 -19.14
6	752.650	3.07	21.73	27.35	30.97	28.42	46.00 -17.58

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Above 1GHz					
Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
2374.75	6.23	29.93	39.19	46.82	43.79	74.00	-30.21	Vertical
4807.00	9.36	34.25	41.53	49.03	51.11	74.00	-22.89	Vertical
7204.00	13.38	37.23	40.98	48.65	58.28	74.00	-15.72	Vertical
7756.25	14.01	37.57	39.56	48.19	60.21	74.00	-13.79	Vertical
9601.00	13.39	37.99	37.56	45.61	59.43	74.00	-14.57	Vertical
12009.75	16.45	39.10	39.09	46.25	62.71	74.00	-11.29	Vertical
2374.75	6.23	29.93	39.19	47.29	44.26	74.00	-29.74	Horizontal
4807.00	9.36	34.25	41.53	49.16	51.24	74.00	-22.76	Horizontal
7204.00	13.38	37.23	40.98	48.68	58.31	74.00	-15.69	Horizontal
7756.25	14.01	37.57	39.56	49.48	61.50	74.00	-12.50	Horizontal
9601.00	13.39	37.99	37.56	45.87	59.69	74.00	-14.31	Horizontal
12009.75	16.45	39.10	39.09	46.61	63.07	74.00	-10.93	Horizontal

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
2374.75	6.23	29.93	39.19	33.87	30.84	54.00	-23.16	Vertical
4807.00	9.36	34.25	41.53	35.66	37.74	54.00	-16.26	Vertical
7204.00	13.38	37.23	40.98	35.19	44.82	54.00	-9.18	Vertical
7756.25	14.01	37.57	39.56	35.02	47.04	54.00	-6.96	Vertical
9601.00	13.39	37.99	37.56	32.64	46.46	54.00	-7.54	Vertical
12009.75	16.45	39.10	39.09	33.35	49.81	54.00	-4.19	Vertical
2374.75	6.23	29.93	39.19	33.80	30.77	54.00	-23.23	Horizontal
4807.00	9.36	34.25	41.53	35.43	37.51	54.00	-16.49	Horizontal
7204.00	13.38	37.23	40.98	35.13	44.76	54.00	-9.24	Horizontal
7756.25	14.01	37.57	39.56	34.98	47.00	54.00	-7.00	Horizontal
9601.00	13.39	37.99	37.56	32.60	46.42	54.00	-7.58	Horizontal
12009.75	16.45	39.10	39.09	33.29	49.75	54.00	-4.25	Horizontal

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Test mode:	Transmitting	Test channel:	Middle	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
4889.25	10.57	34.35	40.33	50.63	55.22	74.00	-18.78	Vertical
6287.50	14.44	36.19	41.61	49.64	58.66	74.00	-15.34	Vertical
7321.50	12.91	37.31	40.40	48.56	58.38	74.00	-15.62	Vertical
8825.50	13.14	37.78	37.47	47.55	61.00	74.00	-13.00	Vertical
9765.50	13.89	38.03	37.94	45.10	59.08	74.00	-14.92	Vertical
12009.75	16.45	39.10	39.09	46.38	62.84	74.00	-11.16	Vertical
4889.25	10.57	34.35	40.33	49.64	54.23	74.00	-19.77	Horizontal
6287.50	14.44	36.19	41.61	50.69	59.71	74.00	-14.29	Horizontal
7321.50	12.91	37.31	40.40	49.62	59.44	74.00	-14.56	Horizontal
8825.50	13.14	37.78	37.47	48.62	62.07	74.00	-11.93	Horizontal
9765.50	13.89	38.03	37.94	45.83	59.81	74.00	-14.19	Horizontal
12009.75	16.45	39.10	39.09	46.24	62.70	74.00	-11.30	Horizontal

Test mode:	Transmitting	Test channel:	Middle	Remark:	Average
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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
4889.25	10.57	34.35	40.33	35.74	40.33	54.00	-13.67	Vertical
6287.50	14.44	36.19	41.61	36.48	45.50	54.00	-8.50	Vertical
7321.50	12.91	37.31	40.40	35.75	45.57	54.00	-8.43	Vertical
8825.50	13.14	37.78	37.47	34.36	47.81	54.00	-6.19	Vertical
9765.50	13.89	38.03	37.94	32.75	46.73	54.00	-7.27	Vertical
12009.75	16.45	39.10	39.09	33.38	49.84	54.00	-4.16	Vertical
4889.25	10.57	34.35	40.33	35.64	40.23	54.00	-13.77	Horizontal
6287.50	14.44	36.19	41.61	36.43	45.45	54.00	-8.55	Horizontal
7321.50	12.91	37.31	40.40	35.66	45.48	54.00	-8.52	Horizontal
8825.50	13.14	37.78	37.47	34.29	47.74	54.00	-6.26	Horizontal
9765.50	13.89	38.03	37.94	32.69	46.67	54.00	-7.33	Horizontal
12009.75	16.45	39.10	39.09	33.35	49.81	54.00	-4.19	Horizontal

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Test mode:	Transmitting	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
4959.75	10.43	34.45	41.03	48.68	52.53	74.00	-21.47	Vertical
6675.25	13.29	36.71	40.65	50.69	60.04	74.00	-13.96	Vertical
7439.00	12.72	37.37	40.01	48.61	58.69	74.00	-15.31	Vertical
8837.25	13.19	37.79	37.42	47.31	60.87	74.00	-13.13	Vertical
9918.25	14.24	38.08	37.78	46.00	60.54	74.00	-13.46	Vertical
12397.50	17.55	39.34	39.48	46.44	63.85	74.00	-10.15	Vertical
4959.75	10.43	34.45	41.03	50.00	53.85	74.00	-20.15	Horizontal
6675.25	13.29	36.71	40.65	50.73	60.08	74.00	-13.92	Horizontal
7439.00	12.72	37.37	40.01	49.35	59.43	74.00	-14.57	Horizontal
8837.25	13.19	37.79	37.42	48.63	62.19	74.00	-11.81	Horizontal
9918.25	14.24	38.08	37.78	45.45	59.99	74.00	-14.01	Horizontal
12397.50	17.55	39.34	39.48	46.73	64.14	74.00	-9.86	Horizontal

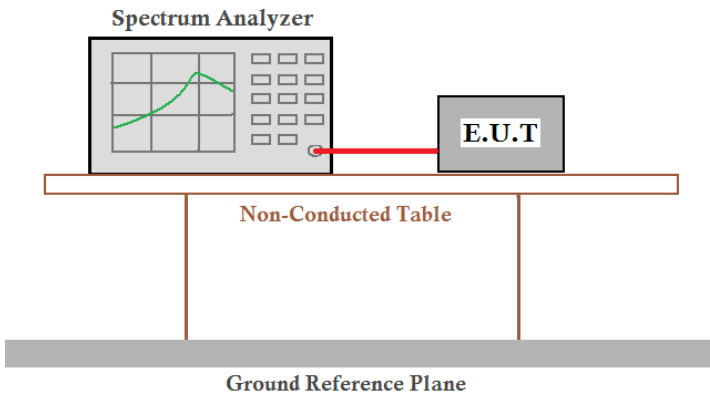
Test mode:	Transmitting	Test channel:	Highest	Remark:	Average
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
4959.75	10.43	34.45	41.03	35.77	39.62	54.00	-14.38	Vertical
6675.25	13.29	36.71	40.65	36.35	45.70	54.00	-8.30	Vertical
7439.00	12.72	37.37	40.01	35.66	45.74	54.00	-8.26	Vertical
8837.25	13.19	37.79	37.42	34.14	47.70	54.00	-6.30	Vertical
9918.25	14.24	38.08	37.78	32.50	47.04	54.00	-6.96	Vertical
12397.50	17.55	39.34	39.48	32.63	50.04	54.00	-3.96	Vertical
4959.75	10.43	34.45	41.03	35.73	39.58	54.00	-14.42	Horizontal
6675.25	13.29	36.71	40.65	36.31	45.66	54.00	-8.34	Horizontal
7439.00	12.72	37.37	40.01	35.62	45.70	54.00	-8.30	Horizontal
8837.25	13.19	37.79	37.42	34.11	47.67	54.00	-6.33	Horizontal
9918.25	14.24	38.08	37.78	32.44	46.98	54.00	-7.02	Horizontal
12397.50	17.55	39.34	39.48	33.59	51.00	54.00	-3.00	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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5.2.3 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2009
Limit:	Operation Frequency range 2400MHz-2483.5MHz
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
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 mode:	Normal operation mode
Test result:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Result
Lowest	1128	Pass
Middle	1156	Pass
Highest	1180	Pass

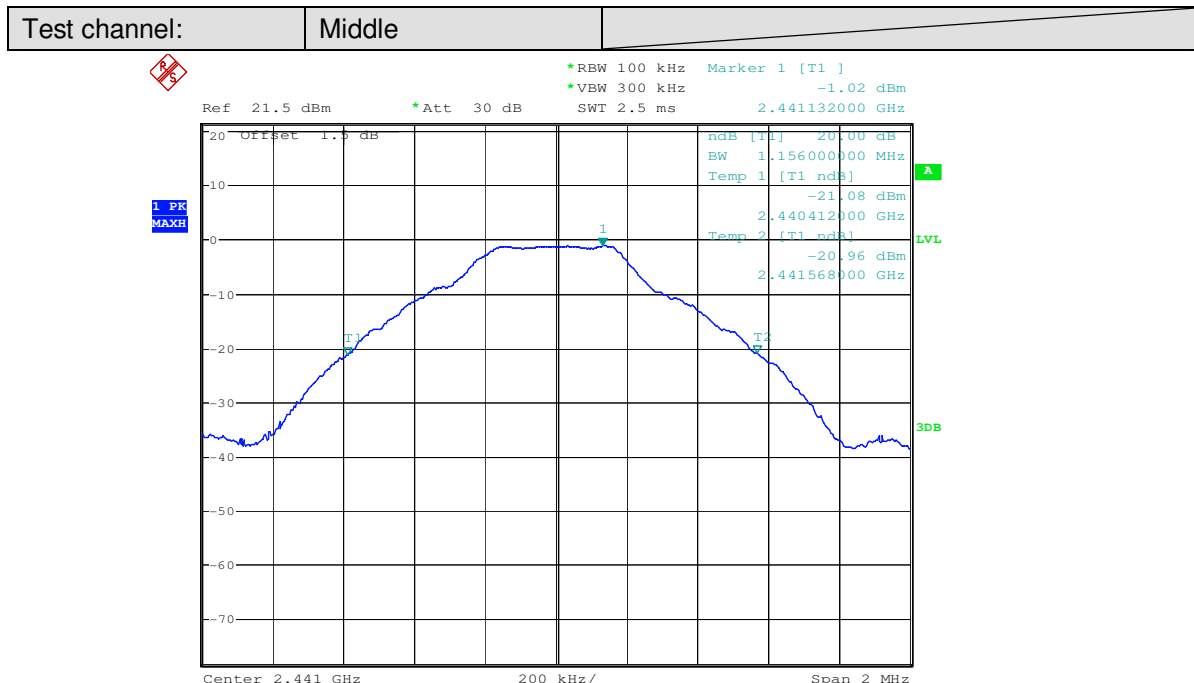
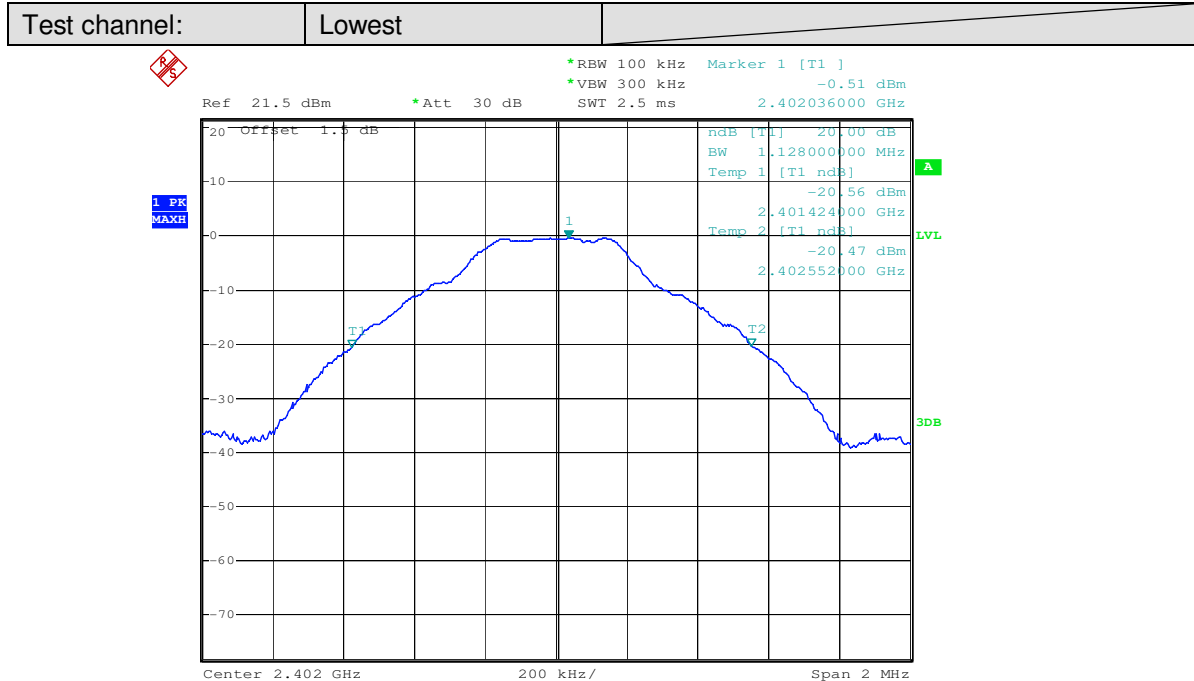


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Test plot as follows:



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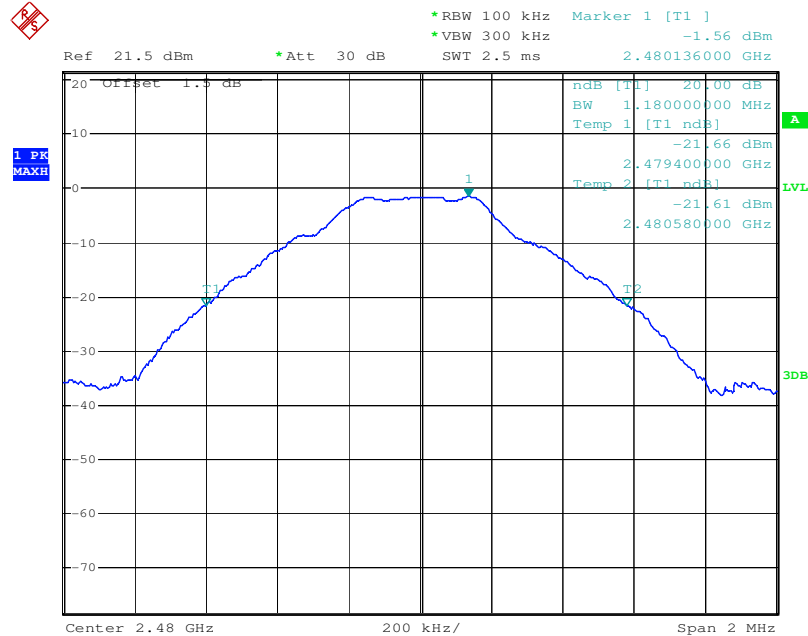


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Test channel:	Highest	
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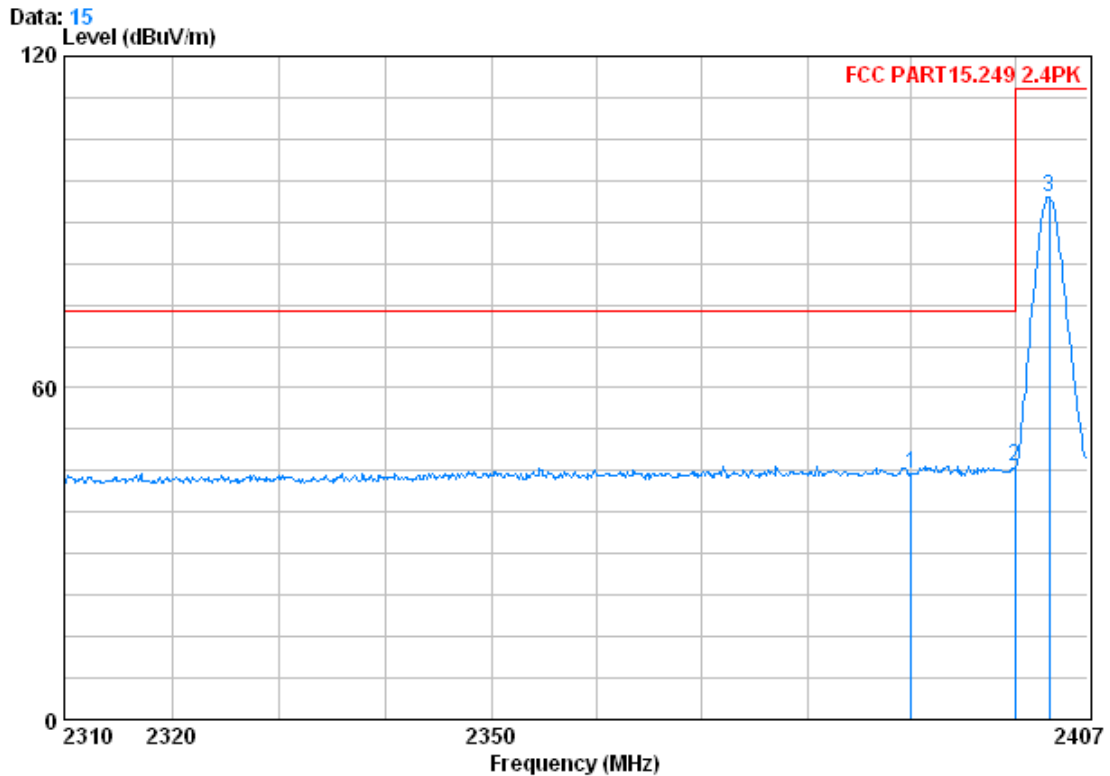
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5.2.4 Band edge (Radiated Emission)

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

Vertical:



	Freq	Cable	Antenna	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
		dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	47.23	44.46	-29.54
2	2400.000	6.34	30.03	38.87	48.22	45.72	-28.28
3	2403.314	6.34	30.03	38.87	96.99	94.49	-19.51

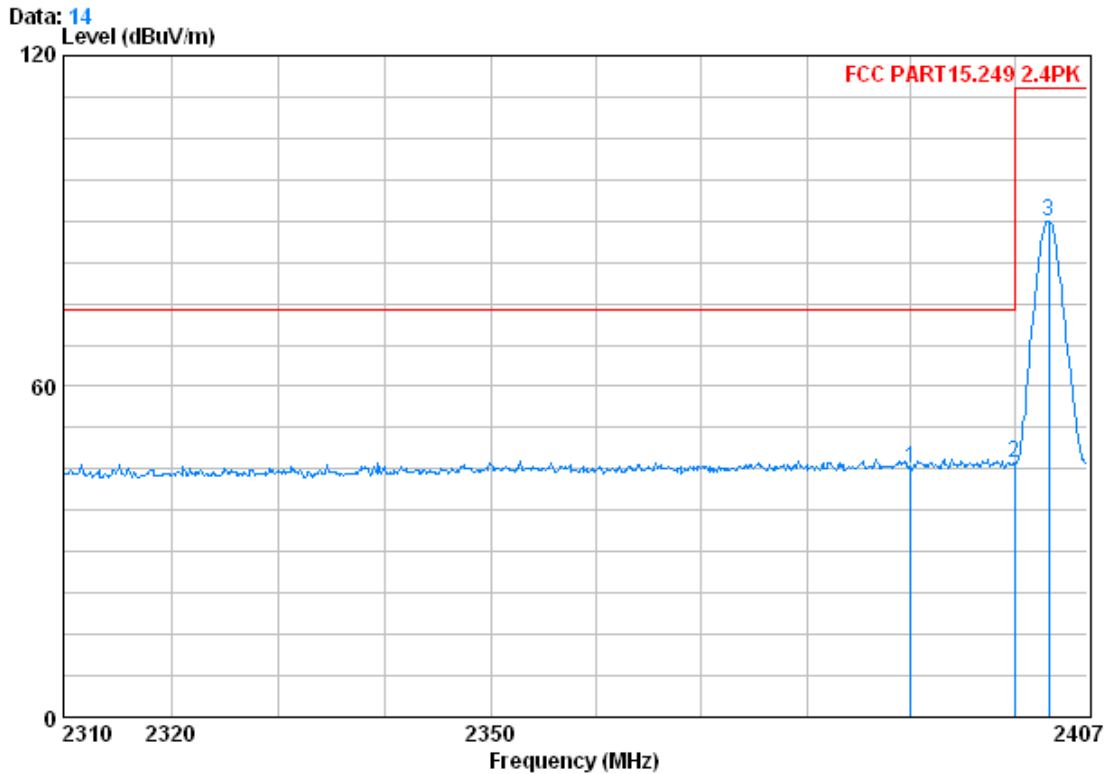


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Horizontal:



		Cable	Antenna	Preamplifier	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	6.28	29.98	39.03	47.88	74.00	-28.88
2	2400.000	6.34	30.03	38.87	48.62	74.00	-27.88
3	2403.314	6.34	30.03	38.87	92.57	114.00	-23.93

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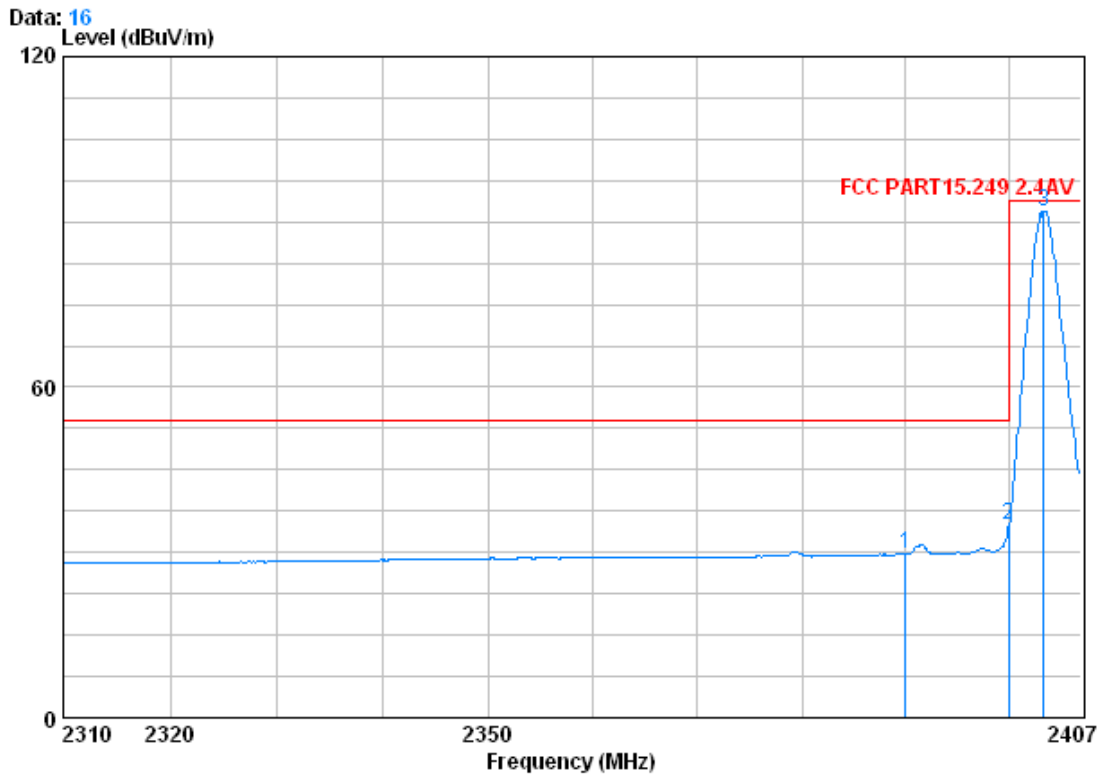
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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average
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Vertical:



		Cable	Antenna	Preamp	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	2390.000	6.28	29.98	39.03	32.42	29.66	54.00
2	2400.000	6.34	30.03	38.87	37.65	35.15	54.00
3	2403.411	6.34	30.03	38.87	94.53	92.03	94.00

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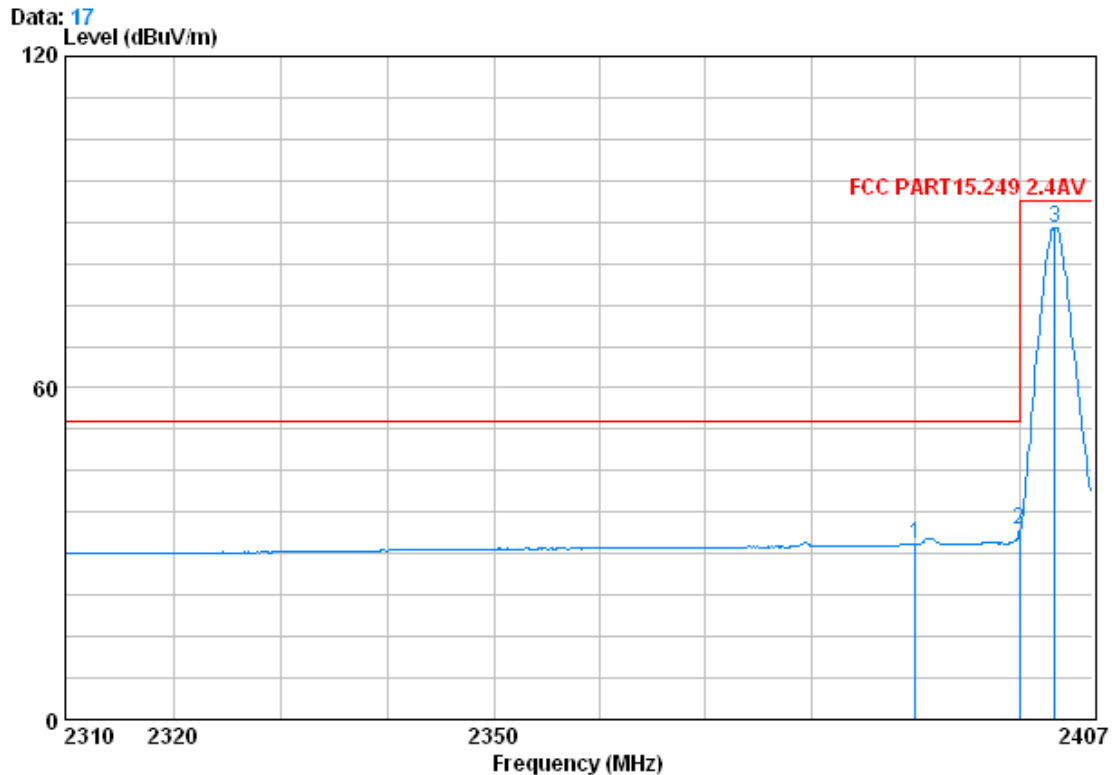


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Horizontal:



		CableAntenna Preamp			Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0	2390.000	6.28	29.98	39.03	34.37	31.60	54.00 -22.40
2	0	2400.000	6.34	30.03	38.87	36.67	34.17	54.00 -19.83
3	0	2403.411	6.34	30.03	38.87	91.55	89.05	94.00 -4.95

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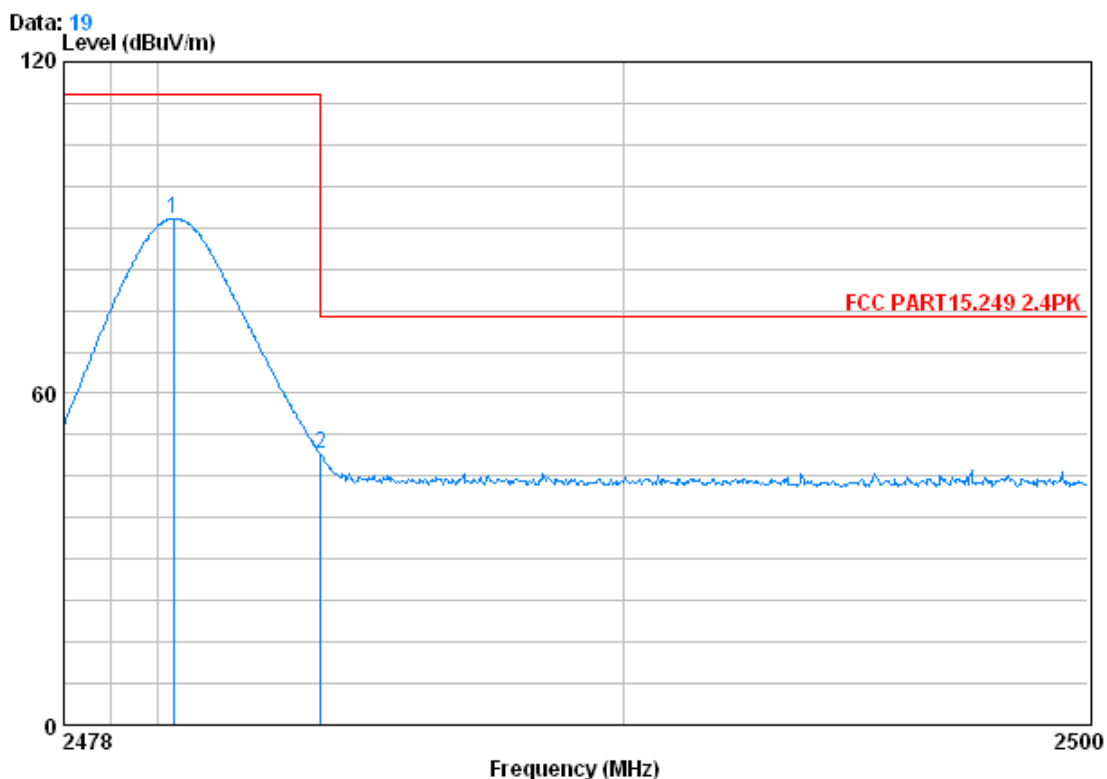
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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
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Vertical:



		Cable	Antenna	Preamplifier	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2480.354	6.45	30.30	39.72	94.60	91.63	114.00 -22.37
2	2483.500	6.22	30.32	39.53	51.87	48.88	74.00 -25.12

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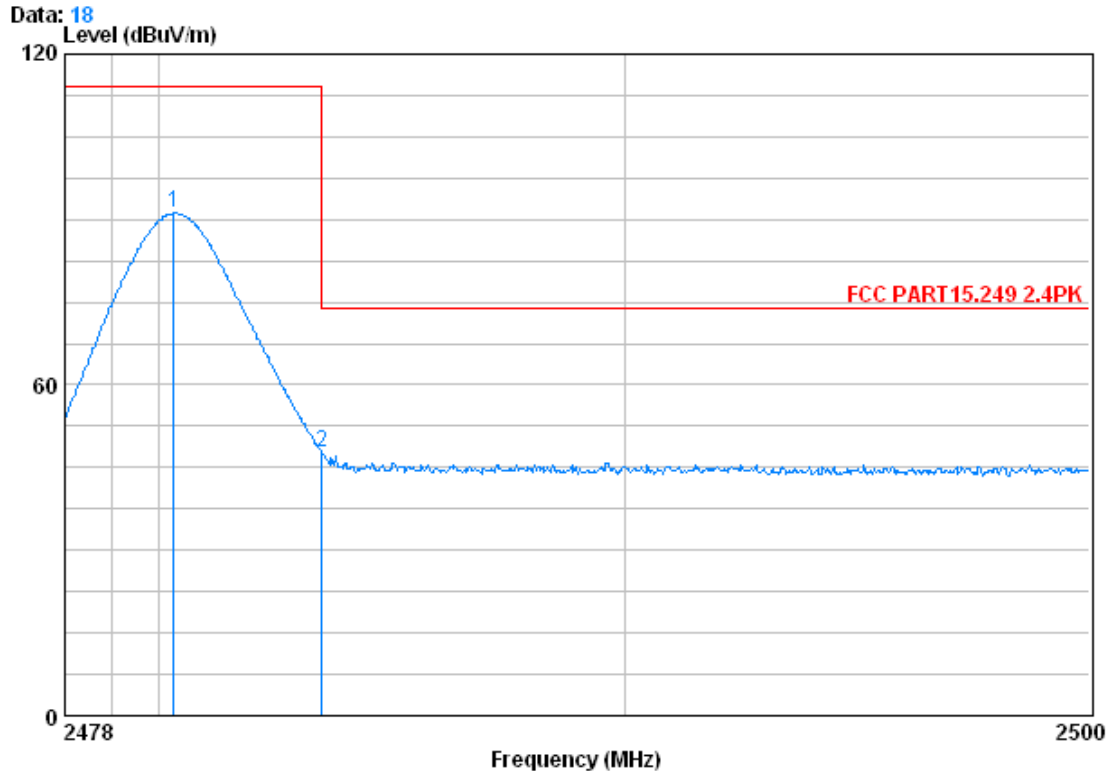


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Horizontal:



		Cable	Antenna	Preamplifier	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2480.332	6.45	30.30	39.72	94.05	91.08	114.00	-22.92
2	2483.500	6.22	30.32	39.53	50.77	47.78	74.00	-26.22

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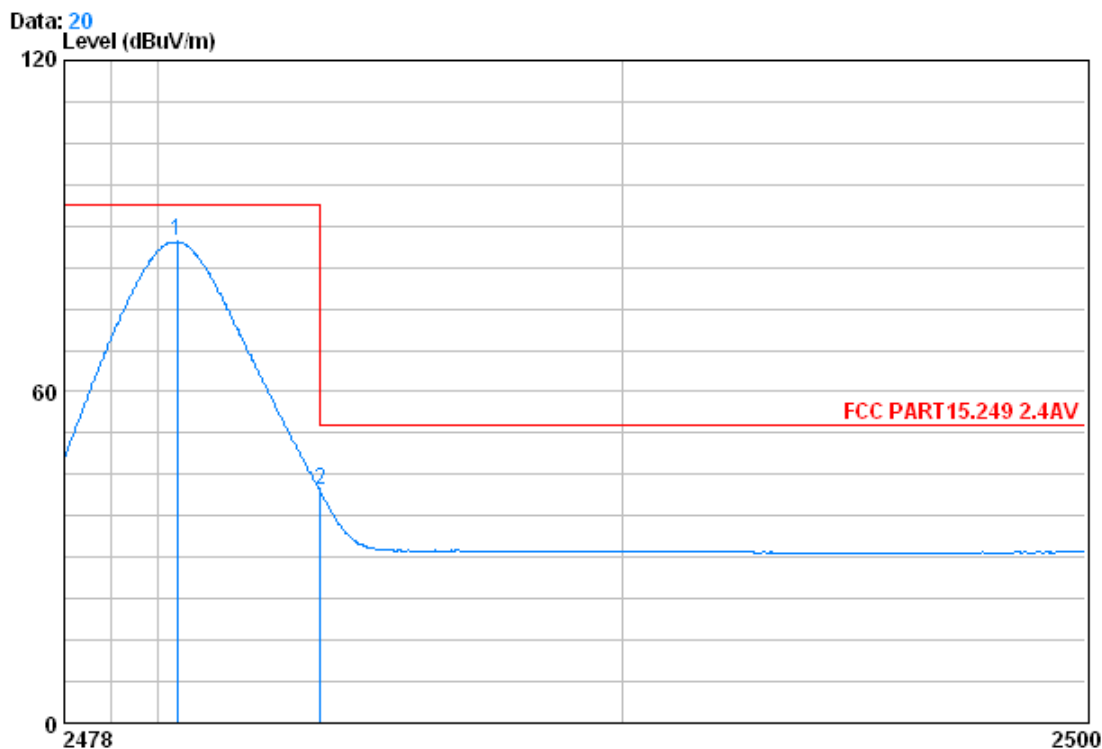
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Test mode:	Transmitting	Test channel:	Highest	Remark:	Average
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Vertical:



Frequency (MHz)								
	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 @	2480.420	6.45	30.30	39.72	90.11	87.14	94.00	-6.86
2 @	2483.500	6.22	30.32	39.53	45.10	42.11	54.00	-11.89

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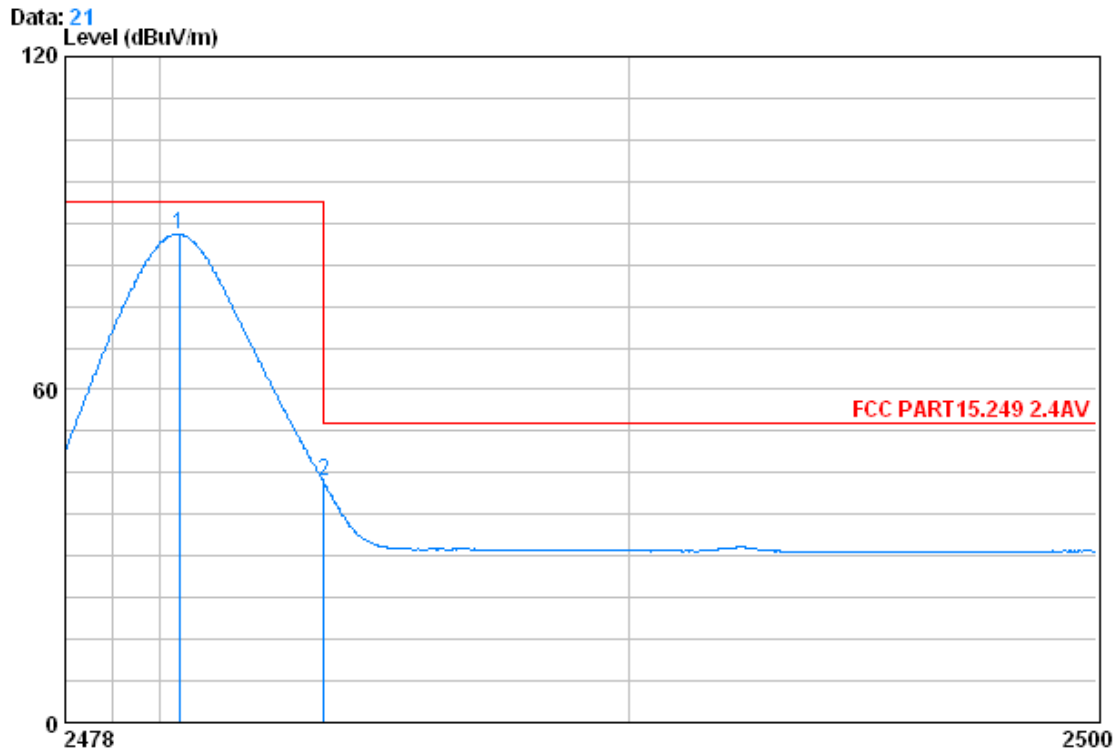


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Horizontal:



		Frequency (MHz)			Read		Limit	Over
	Freq	Cable Loss	Antenna Factor	Preamplifier	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2480.420	6.45	30.30	39.72	90.93	87.96	94.00	-6.04
2	2483.500	6.22	30.32	39.53	46.44	43.45	54.00	-10.55

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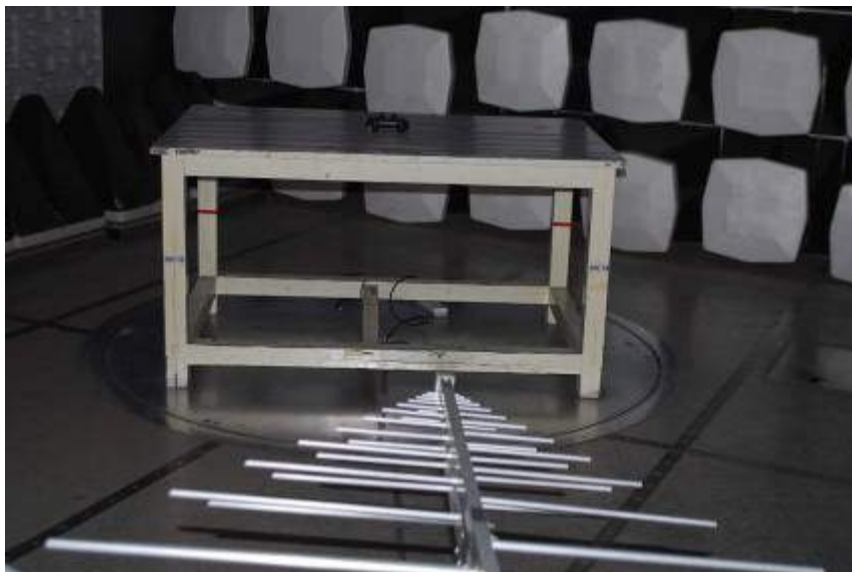
6 Photographs - Test Setup Photo (Test Model No.:YFD001)

Radiated Emission





Spurious Emission





7 Photographs - EUT Constructional Details







