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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM120600354001

Email: ee.shenzhen@sgs.com Page: 1 of 34

FCC REPORT

Application No.: SZEM1206003540AV

Applicant: DAKANG HOLDING CO., LTD

Manufacturer: SHENZHEN SAN JING ELECTRONICS CO., LTD. SHENZHEN SAN JING ELECTRONICS CO., LTD.

Product Name: Active Speaker Model No.(EUT): SJ-S307-W

Add Model No.: SJ-SXXX-Y (the letter "X" stands for 0~9, and the letter "Y"

stands for 0~9 or A~Z) except of model No. SJ-S307-W

FCC ID: OVI--RF915

Standards: 47 CFR PART 15, SUBPART C (2011)

Date of Receipt: 2012-06-28

Date of Test: 2012-07-03 TO 2012-08-02

Date of Issue: 2012-08-21

Test Result: PASS *

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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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Test Summary

Test Item	Test Requirement	Test method	Result	
Antonno Doguiroment	47 CFR Part 15, Subpart C Section	ANCI CC2 10 (2000)	PASS	
Antenna Requirement	15.203	ANSI C63.10 (2009)		
AC Power Line	47 CFR Part 15, Subpart C Section	ANCI (2000)	DACC	
Conducted Emission	15.207	ANSI C63.10 (2009)	PASS	
Field Strength of the	47 CFR Part 15, Subpart C Section	ANCI (2000)	PASS	
Fundamental Signal	15.249 (a)	ANSI C63.10 (2009)	PASS	
Spurious Emissions	47 CFR Part 15, Subpart C Section	ANCI (2000)	DACC	
Spurious Emissions	15.249 (a)/15.209	ANSI C63.10 (2009)	PASS	
Band Edge	47 CFR Part 15, Subpart C Section	ANCI (2000)	DACC	
(Radiated Emission)	15.249(a)/15.205	ANSI C63.10 (2009)	PASS	
20dB Occupied	47 CFR Part 15, Subpart C Section	ANCI C62 10 (2000)	DACC	
Bandwidth	15.215 (c)	ANSI C63.10 (2009)	PASS	

Remark:

Model No.: SJ-SXXX-Y (the letter "X" stands for 0~9, and the letter "Y" stands for 0~9 or A~Z)

Only the model SJ-S307-W was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models, with difference being model number.



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4 General Information

4.1 Client Information

Applicant:	DAKANG HOLDING CO., LTD
Address of Applicant:	Anji Economic Development Zone, Zhejiang Province, 313300, China
Manufacturer:	SHENZHEN SAN JING ELECTRONICS CO., LTD.
Address of Manufacturer:	F11, W2-A, NO.025, Gaoxin Industrial Village, Rd.4, Gaoxin South, Hi-Tech Park, Nanshan District, Shenzhen, China
Factory:	SHENZHEN SAN JING ELECTRONICS CO., LTD.
Address of Factory:	F11, W2-A, NO.025, Gaoxin Industrial Village, Rd.4, Gaoxin South, Hi-Tech Park, Nanshan District, Shenzhen, China

4.2 General Description of EUT

Name:	Active Speaker
Model No.:	SJ-SXXX-Y (the letter "X" stands for 0~9, and the letter "Y" stands for 0~9 or A~Z)
Frequency Range:	914M-915MHz
Modulation Type:	FSK
Sample Type:	Portable production
Antenna Type:	Integral
PowerSupply:	3.0V DC (1.5V x 2 "AAA" Size Batteries)
Test Voltage:	3.0V DC



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Operation Frequency each of channel			
Channel	Frequency		
Band 1	914MHz		
Band 2	914.5MHz		
Band 3	915MHz		

Note:

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)	914MHz	
The Middle channel(CH2)	914.5MHz	
The Highest channel(CH3)	915MHz	



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4.3 Test Environment and Mode

Operating Environment:	Operating Environment:		
Temperature:	27.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	995mbar		
Test mode:	Test mode:		
Transmitting mode:	Keep the EUT in transmitting mode.		

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
AC/DC Adapter INPUT: AC100-240V OUTPUT: DC 3V 1A	ACYZ	ADC1201

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.

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

No tests were sub-contracted.



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4.6 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 3m Semi-anechoic chamber, Full-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, G-416, 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)

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.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



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4.10 Test Instruments 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	2013-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2012-10-29
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2012-10-29
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2012-11-26
9	Coaxial cable	SGS	N/A	SEL0027	2013-05-59
10	Coaxial cable	SGS	N/A	SEL0189	2013-05-29
11	Coaxial cable	SGS	N/A	SEL0121	2013-05-29
12	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
13	Band filter	Amindeon	82346	SEL0094	2013-05-17
14	Barometer	Chang Chun	DYM3	SEL0088	2013-05-24
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2012-10-23
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2012-10-27
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2013-05-17
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	/2012-10-23
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2013-6-4

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	Conducted Emission				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2013-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2012-10-23
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2013-5-17
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2012-11-11
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2012-11-11
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2012-11-11
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2013-5-17
8	Coaxial Cable	SGS	N/A	SEL0025	2013-05-29
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2012-10-23
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2012-10-27
11	Barometer	Chang Chun	DYM3	SEL0088	2013-05-24

RF c	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	2012-10-23	
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2012-10-27	
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2012-10-23	
4	Coaxial cable	SGS	N/A	SEL0178	2013-05-29	
5	Coaxial cable	SGS	N/A	SEL0179	2013-05-29	
6	Barometer	ChangChun	DYM3	SEL0088	2013-05-24	
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2013-05-17	
8	Band filter	amideon	82346	SEL0094	2013-05-17	
9	POWER METER	R&S	NRVS	SEL0144	2012-10-23	
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2013-05-17	
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2012-11-29	

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5 Test results and Measurement Data

5.1 Antenna Requirement

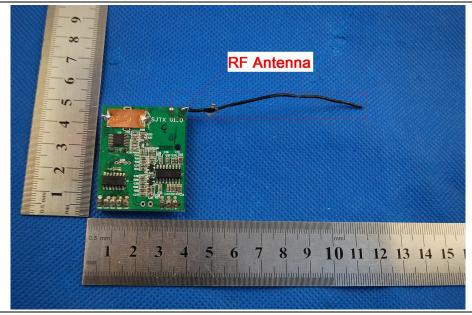
Standard requirement: 47 CFR Part 15C Section 15.203

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.



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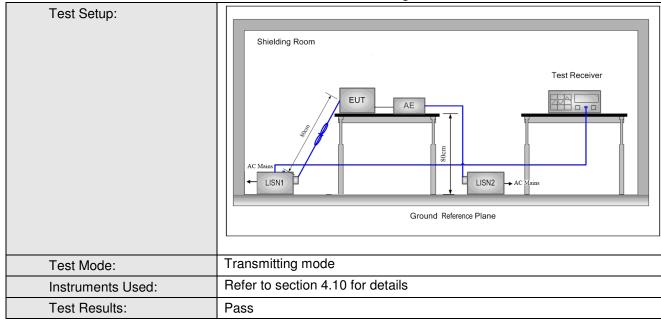
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Frequency range (MUS) Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm				
Test Procedure:	1) The mains terminal disturb	ance voltage test was	conducted in a		
	shielded room.				
	2) The EUT was connected to	AC power source thro	ough a LISN 1 (Line		
	Impedance Stabilization Ne	etwork) which provides	a 50Ω/50μH + 5Ω		
	linear impedance. The pow	ver cables of all other u	inits of the EUT		
	were connected to a secor	nd LISN 2, which was b	onded to the ground		
	reference plane in the sam	e way as the LISN 1 fo	or the unit being		
	measured. A multiple socket outlet strip was used to connect multiple				
	power cables to a single LISN provided the rating of the LISN was not				
	exceeded.				
	3) The tabletop EUT was place	ced upon a non-metallio	c table 0.8m above		
	the ground reference plane				
	EUT was placed on the ho		-		
	The test was performed wire and the second sec	•	•		
	rear of the EUT shall be 0.4	_	•		
	plane. The vertical ground				
	horizontal ground reference	•			
	from the boundary of the u	•	•		
	_		-		
	reference plane for LISNs	· · · · · · · · · · · · · · · · · · ·	-		
	plane. This distance was between the closest points of the LISN 1				
	and the EUT. All other units of the EUT and associated equipment				
	was at least 0.8 m from the LISN 2.				
	5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according				
	to ANSI C63.10: 2009 on conducted measurement.				



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Measurement Data

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

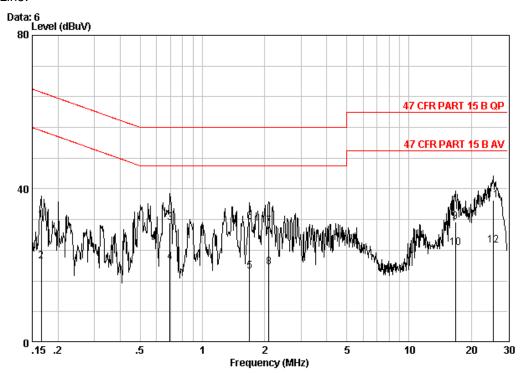
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE LINE

Job No. : 3540AV Mode : Transmitting

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16589	0.02	9.70	22.15	31.87	65.16	-33.29	QP
2	0.16589	0.02	9.70	11.44	21.16	55.16	-34.01	Average
3	0.69725	0.02	9.80	21.37	31.19	56.00	-24.81	QP
4	0.69725	0.02	9.80	11.05	20.87	46.00	-25.13	Average
5	1.689	0.02	9.80	8.64	18.46	46.00	-27.54	Average
6	1.689	0.02	9.80	21.51	31.33	56.00	-24.67	QP
7	2.099	0.02	9.81	20.53	30.36	56.00	-25.64	QP
8	2.099	0.02	9.81	9.83	19.66	46.00	-26.34	Average
9	16.750	0.02	10.10	21.35	31.47	60.00	-28.53	QP
10	16.750	0.02	10.10	14.41	24.52	50.00	-25.48	Average
11 0	25.591	0.03	10.10	26.86	36.99	60.00	-23.01	QP
12	25.591	0.03	10.10	15.16	25.29	50.00	-24.71	Average

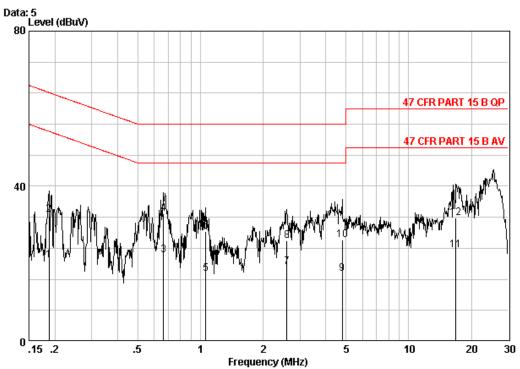
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE NEUTRAL

Job No. : 3540AV Mode : Transmitting

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.:	18738	0.02	9.70	11.10	20.82	54.15	-33.33	Average
2	0.3	18738	0.02	9.70	22.95	32.67	64.15	-31.48	QP
3	0.0	66478	0.02	9.80	12.49	22.31	46.00	-23.69	Average
4	0.0	66478	0.02	9.80	23.08	32.90	56.00	-23.10	QP
5	:	1.060	0.02	9.80	7.52	17.34	46.00	-28.66	Average
6	:	1.060	0.02	9.80	18.47	28.29	56.00	-27.71	QP
7	2	2.594	0.02	9.83	9.23	19.08	46.00	-26.92	Average
8	2	2.594	0.02	9.83	16.19	26.04	56.00	-29.96	QP
9		4.797	0.01	9.90	7.61	17.52	46.00	-28.48	Average
10		4.797	0.01	9.90	16.15	26.06	56.00	-29.94	QP
11	1	6.839	0.02	10.04	13.45	23.51	50.00	-26.49	Average
12	1	6.839	0.02	10.04	21.82	31.88	60.00	-28.12	QP

Notes:

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

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5.3 Radiated Emission

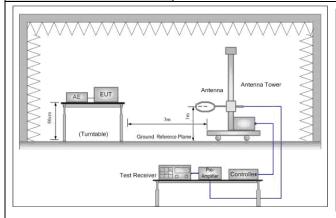
Test Requirement:	47 CFR Part 15C Section	on 15.249 and 15	5.209		
Test Method:	ANSI C63.10: 2009				
Test Site:	Measurement Distance	3m (Semi-Anec	hoic Chamb	er)	
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	z Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MH	z Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MH	z Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	300kHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above Tariz	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 specifi	ed, the limit of	on peak radio	frequency
	emissions is 20d	B above the max	imum permit	ted average	emission limit
	applicable to the	equipment under	r test. This p	eak limit appl	ies to the total
	peak emission le	vel radiated by th	ne device.		
Limit:	Frequency	Limit (dBu	uV/m @3m)	Rem	ark
(Field strength of the	902-928MHz	9	4.0	Quasi-	peak
fundamental signal)					



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Test Setup:



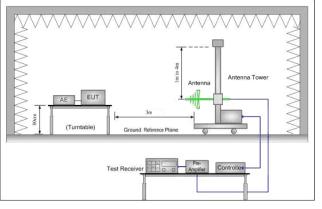


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

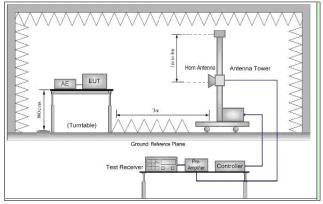


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 (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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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	 f. 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. g. Test the EUT in the lowest channel,the middle channel,the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

Measurement Data

5.3.1.1 Field Strength Of The Fundamental Signal

QP 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)	Polarization
914	3.62	23.26	26.71	90.36	90.53	94	-3.47	Horizontal
914	3.62	23.26	26.71	88.61	88.78	94	-5.22	Vertical
914.5	3.62	23.26	26.71	90.66	90.83	94	-3.17	Horizontal
914.5	3.62	23.26	26.71	88.52	88.69	94	-5.31	Vertical
915	3.62	23.26	26.71	90.34	90.51	94	-3.49	Horizontal
915	3.62	23.26	26.71	90.24	90.41	94	-3.59	Vertical

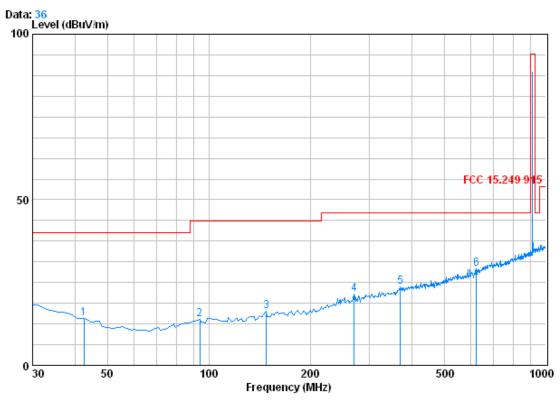


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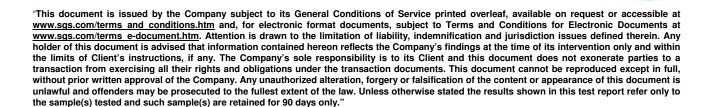
5.3.1.2 Spurious Emissions

30MHz~1GHz							
Test mode:	Transmitting	914MHz	Vertical				



Condition : FCC 15.249 915 3m 3142C VERTICAL

		CableA	.ntenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	11110	Q.D	0.27 1.1	GLD.	abar	abar, m	abar, m	Q.D
1	42.610	0.66	10.24	27.31	30.52	14.11	40.00	-25.89
2	94.020	1.14	8.87	27.21	31.16	13.96	43.50	-29.54
3	148.340	1.32	8.86	26.91	33.21	16.47	43.50	-27.03
4	269.590	1.77	12.70	26.48	33.40	21.40	46.00	-24.60
5	369.500	2.12	15.87	26.93	32.70	23.76	46.00	-22.24
6	622.670	2.75	20.44	27.51	33.43	29.10	46.00	-16.90

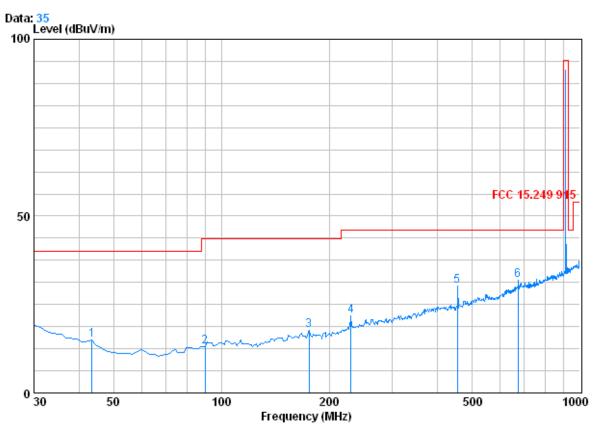




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Condition : FCC 15.249 915 3m 3142C HORIZONTAL

		Cable	intenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.580	0.68	10.53	27.31	30.98	14.88	40.00	-25.12
2	90.140	1.10	8.71	27.21	30.56	13.16	43.50	-30.34
3	175.500	1.36	9.71	26.79	33.51	17.79	43.50	-25.71
4	229.820	1.57	11.64	26.59	35.15	21.77	46.00	-24.23
5	455.830	2.43	17.09	27.48	38.09	30.14	46.00	-15.86
6	673.110	2.85	21.40	27.45	35.17	31.97	46.00	-14.03

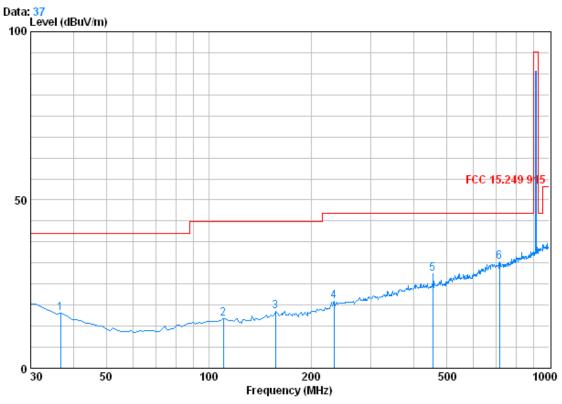
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Test mode: Transmitting 914.5MHz Vertical



Condition : FCC 15.249 915 3m 3142C VERTICAL

			Antenna	•	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.790	0.60	12.30	27.33	30.90	16.47	40.00	-23.53
2	110.510	1.23	8.57	27.13	32.08	14.76	43.50	-28.74
3	157.070	1.33	9.42	26.87	33.04	16.92	43.50	-26.58
4	233.700	1.59	11.79	26.58	33.22	20.02	46.00	-25.98
5	455.830	2.43	17.09	27.48	35.98	28.03	46.00	-17.97
6	714.820	2.95	21.60	27.39	34.44	31.59	46.00	-14.41

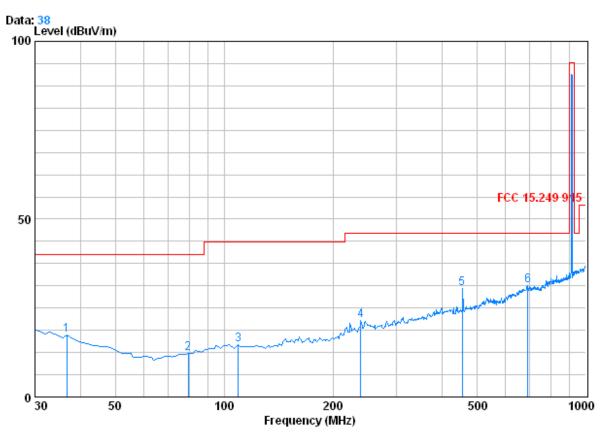
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Test mode: Transmitting 914.5MHz Horizontal



Condition: FCC 15.249 915 3m 3142C HORIZONTAL

Job No. : 3540AV test mode : TX ON band 2

		Cablei	lntenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.790	0.60	12.53	27.33	31.53	17.33	40.00	-22.67
2	79.470	1.08	7.68	27.23	30.64	12.17	40.00	-27.83
3	109.540	1.23	8.62	27.14	32.06	14.77	43.50	-28.73
4	238.550	1.62	11.93	26.57	34.60	21.58	46.00	-24.42
5	455.830	2.43	17.09	27.48	38.51	30.56	46.00	-15.44
6	691.540	2.88	21.54	27.42	34.37	31.37	46.00	-14.63

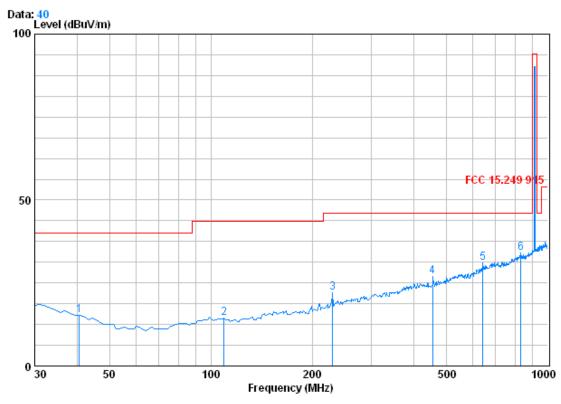
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Test mode: Transmitting 915MHz Vertical



Condition : FCC 15.249 915 3m 3142C VERTICAL

	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.670	0.61	10.93	27.32	31.14	15.37	40.00	-24.63
2	109.540	1.23	8.62	27.14	31.72	14.43	43.50	-29.07
3	229.820	1.57	11.64	26.59	35.52	22.14	46.00	-23.86
4	455.830	2.43	17.09	27.48	34.83	26.88	46.00	-19.12
5	641.100	2.78	20.56	27.49	35.18	31.04	46.00	-14.96
6	831.220	3.34	22.40	27.13	35.32	33.93	46.00	-12.07

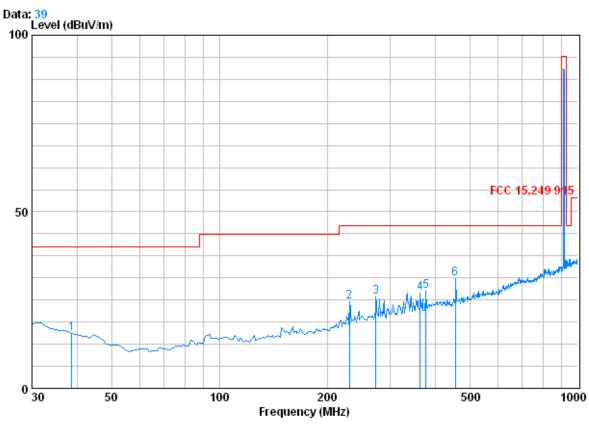
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Condition: FCC 15.249 915 3m 3142C HORIZONTAL

, DV 1110 G40	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	——dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	38.730	0.60	12.07	27.32	30.32	15.66	40.00	-24.34
2	230.790	1.58	11.70	26.59	37.76	24.44	46.00	-21.56
3	273.470	1.78	12.78	26.47	37.90	25.99	46.00	-20.01
4	362.710	2.10	15.72	26.89	35.98	26.91	46.00	-19.09
5	377.260	2.14	16.03	26.99	36.30	27.49	46.00	-18.51
6	455.830	2.43	17.09	27.48	38.88	30.93	46.00	-15.07

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Above 1GHz	Above 1GHz										
Test mode:		Tran	smitting	Test char	nnel:	Lo	west	Remark:		Pea	ak
Frequency (MHz)	Lo	ble ss B)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Leve (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lim (dE	nit	Polarization
1364.583	2.4	43	27.85	39.29	56.51		47.50	74	-26.	50	Vertical
1828.100	2.	73	30.57	39.50	51.89)	45.69	74	-28.	31	Vertical
3176.874	3.4	46	33.33	40.44	49.42	<u> </u>	45.77	74	-28.	23	Vertical
4477.133	4.4	48	35.15	41.39	49.26	6	47.50	74	-26.	50	Vertical
6353.309	5.2	22	36.12	40.61	50.72	2	51.45	74	-22.	55	Vertical
8128.305	6.2	20	36.05	39.08	49.51		52.68	74	-21.	32	Vertical
1364.583	2.4	43	27.85	39.29	54.23	}	45.22	74	-28.	78	Horizontal
1823.896	2.	72	30.44	39.49	52.92	2	46.59	74	-27.	41	Horizontal
2349.633	2.9	97	32.42	39.82	49.20)	44.77	74	-29.	23	Horizontal
2741.574	3.	17	33.03	40.12	55.18	3	51.26	74	-22.	74	Horizontal
4083.194	4.2	22	34.03	41.09	49.22	2	46.38	74	-27.	62	Horizontal
6353.309	5.2	22	36.12	40.61	49.62	2	50.35	74	-23.	65	Horizontal

Test mode:	Tran	smitting	Test char	nnel:	Middle	Remark:	Pe	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV	(dRuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1364.583	2.43	27.85	39.29	55.14	46.13	74	-27.87	Vertical	
1828.100	2.73	30.57	39.50	58.84	52.64	74	-21.36	Vertical	
3013.006	3.32	33.40	40.31	48.53	44.94	74	-29.06	Vertical	
3962.780	4.13	33.76	41.01	49.74	46.62	74	-27.38	Vertical	
6109.420	5.15	35.84	40.83	50.39	50.55	74	-23.45	Vertical	
7550.922	6.17	36.00	39.57	49.73	52.33	74	-21.67	Vertical	
1364.583	2.43	27.85	39.29	52.25	43.24	74	-30.76	Horizontal	
1828.100	2.73	30.57	39.50	55.47	49.27	74	-24.73	Horizontal	
3069.022	3.38	33.37	40.35	49.11	45.51	74	-28.49	Horizontal	
4477.133	4.48	35.15	41.39	49.31	47.55	74	-26.45	Horizontal	
5888.437	5.09	35.53	41.02	49.75	49.35	74	-24.65	Horizontal	
7550.922	6.17	36.00	39.57	49.30	51.90	74	-22.10	Horizontal	

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Test mode:	Tran	smitting	Test char	nnel:	Highest	Remark:	Pe	ak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV	(dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1364.583	2.43	27.85	39.29	56.90	47.89	74	-26.11	Vertical
1828.100	2.73	30.57	39.50	58.39	52.19	74	-21.81	Vertical
2741.574	3.17	33.03	40.12	57.16	53.24	74	-20.76	Vertical
4549.880	4.53	35.12	41.44	50.19	48.40	74	-25.60	Vertical
6471.426	5.25	36.26	40.51	49.64	50.64	74	-23.36	Vertical
8222.427	6.19	36.09	39.00	48.76	52.04	74	-21.96	Vertical
1364.583	2.43	27.85	39.29	53.34	44.33	74	-29.67	Horizontal
1828.100	2.73	30.57	39.50	55.83	49.63	74	-24.37	Horizontal
2971.666	3.30	33.35	40.28	47.52	43.89	74	-30.11	Horizontal
3715.352	3.91	33.47	40.83	49.14	45.69	74	-28.31	Horizontal
4518.560	4.50	35.17	41.42	50.07	48.32	74	-25.68	Horizontal
6792.036	5.33	36.01	40.23	48.80	49.91	74	-24.09	Horizontal

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) The disturbance above 9GHz and 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.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



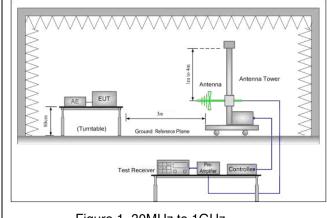
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5.4 Band edge (Radiated Emission)

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2009	ANSI C63.10: 2009						
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	er)					
Limit(Band Edge):	Emissions radiated outside	Emissions radiated outside of the specified frequency bands, except for						
	harmonics, shall be attenua	harmonics, shall be attenuated by at least 50 dB below the level of the						
	fundamental or to the gener	al radiated emission limits	in Section 15.209,					
	whichever is the lesser atter	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					
	Ab 4011	54.0	Average Value					
	Above 1GHz	74.0	Peak Value					
Test Setup:		1	1					





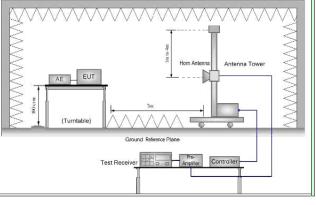


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 channel			
	g. Test the EUT in the lowest channel, the Highest channel			
	h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.			
	i. Repeat above procedures until all frequencies measured was complete.			
Instruments Used:	Refer to section 4.10 for details			
Test Mode:	Transmitting mode			
Test Results:	Pass			



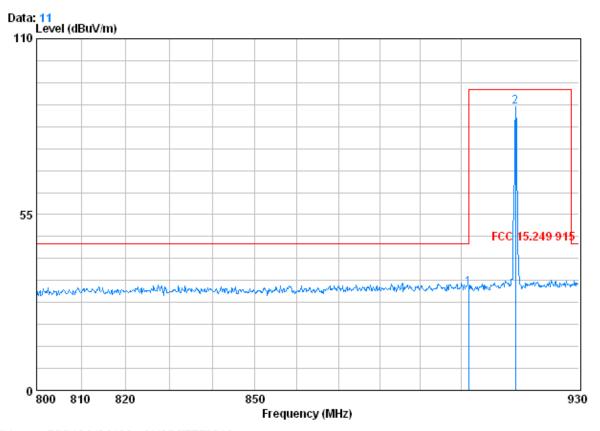
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Test plot as follows:

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



Condition : FCC 15.249 915 3m 3142C VERTICAL

Job No. : 3540AV test mode : TX ON band 1

			Cablei	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		902.000	3.60	23.21	26.75	32.12	32.18	46.00	-13.82
2	0	913.750	3.61	23.26	26.71	88.65	88.81	94.00	-5.19



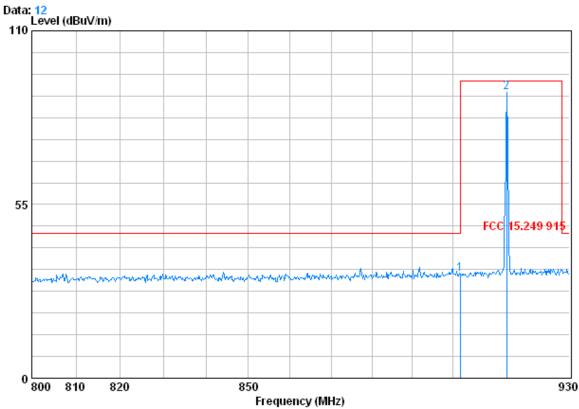
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Horizontal:



Condition: FCC 15.249 915 3m 3142C HORIZONTAL

Job No. : 3540AV test mode : TX ON band 1

			Cable	lntenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		902.000	3.60	23.21	26.75	32.88	32.95	46.00	-13.05
2	0	913.750	3.61	23.26	26.71	90.31	90.47	94.00	-3.53

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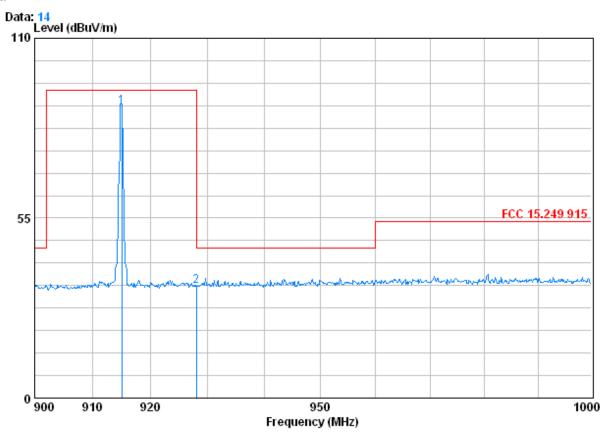


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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
	1.14.1011111		19	i tomanti	. oan

Vertical:



Condition : FCC 15.249 915 3m 3142C VERTICAL

		Cablei	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 0	915.000	3.62	23.26	26.71	88.73	88.89	94.00	-5.11
2	928.000	3.63	23.30	26.64	33.83	34.11	46.00	-11.89

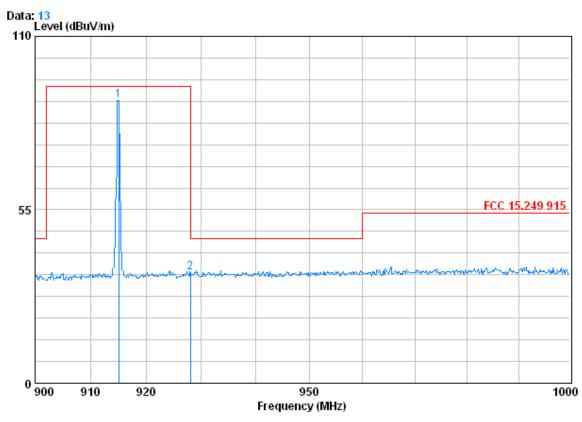
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Horizontal:



Condition : FCC 15.249 915 3m 3142C HORIZONTAL

Job No. : 3540AV test mode : TX ON band 3

			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	0	915.000	3.62	23.26	26.71	89.49	89.66	94.00	-4.34
2		928.000	3.63	23.30	26.64	34.76	35.04	46.00	-10.96

Note:

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

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

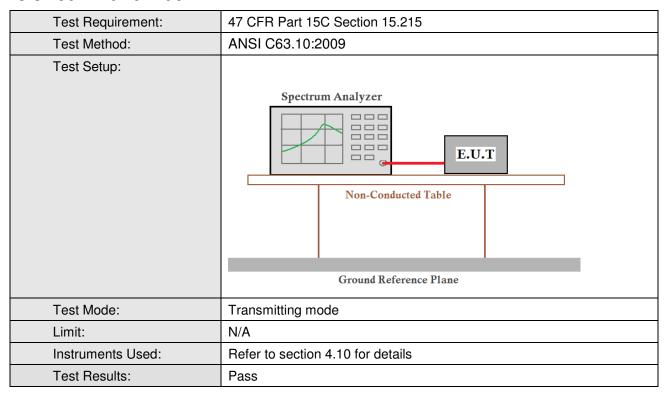
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5.520dB Bandwidth



Measurement Data

Test Channel	20dB bandwidth (MHz)	Results							
Lowest	0.127	Pass							
Middle	0.127	Pass							
Highest	0.128	Pass							

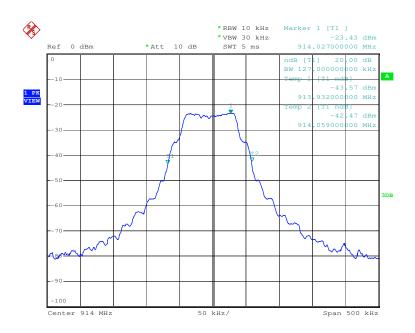


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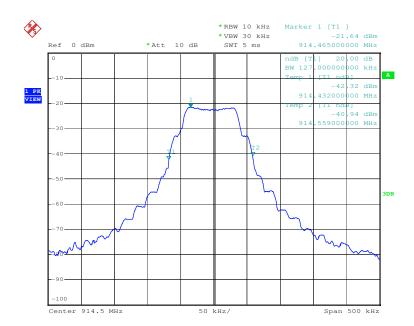
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Test plot as follows:

Test channel: Lowest



Test channel: Middle



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Test channel: Highest

