



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technological
Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555
Fax: +86 (0) 20 82075059
Email: ee.guangzhou@sgs.com

Report No.: GZEM180600323201
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FCC ID: XVMDAC18

TEST REPORT

Application No.: GZEM1806003232CR
Applicant: ACE BAYOU CORPORATION
Address of Applicant: Room1419, Qingjiang Suning Plaza, No.88 Jiangdong North Road, Gulou District, Nanjing, Jiangsu, 210036, China.
Manufacturer: ACE BAYOU CORPORATION
Address of Manufacturer: Room1419, Qingjiang Suning Plaza, No.88 Jiangdong North Road, Gulou District, Nanjing, Jiangsu, 210036, China.
Equipment Under Test (EUT):
FCC ID: XVMDAC18
EUT Name: Transmitter
Model No.: DAC18
Trade Mark: X Rocker
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2018-06-15
Date of Test: 2018-06-25 to 2018-07-20
Date of Issue: 2018-10-24

Test Result:	Pass*
---------------------	--------------

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



Kobe Jian
Lab 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.

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Guangzhou Branch

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-10-24		Original

Authorized for issue by:			
Tested By			2018-06-25 to 2018-07-20
	Curry_Wu /Project Engineer		Date
Checked By			2018-08-09
	Ricky_Liu /Reviewer		Date



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass①
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass②

Remark:

①②: The EUT passed: Restricted Band Around Fundamental Frequency, Radiated Emissions tests after modification.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 5V
Test Voltage:	AC 120V (adaptor supply by SGS)
Cable:	About 0.8m unscreened Optical cable About 0.5m unscreened USB cable
Antenna Type	Integral
Channel Spacing	1MHz
Modulation Type	FM
Number of Channels	3
Operation Frequency	914MHz,915MHz,916MHz

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature(°C)	Voltage(V)
TNVN	25	120

Note:

VN: Normal Voltage

TN: Normal Temperature



4.3 Description of Support Units

The EUT has been tested as an independent unit.

4.4 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



4.6 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

● **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

The EUT passed: Restricted Band Around Fundamental Frequency, Radiated Emissions tests after modification.



5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2138	2017-11-15	2018-11-14
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2018-01-19	2019-01-18
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2018-01-19	2019-01-18
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECK MESS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2018-01-08	2019-01-07
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2017-11-20	2018-11-19
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2018-01-19	2019-01-18
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2018-01-08	2019-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-11-29	2018-11-28
MXE EMI Receiver	Keysight	N9038A	EMC2139	2017-11-15	2018-11-14
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2017-11-15	2018-11-14
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Conducted Emission						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal.Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	2016-12-27	2019-12-26
EMC0118	Two-line v-netwok	R&S	ENV216	100359	2018-01-19	2019-01-18
EMC2135	Two-line v-netwok	R&S	ENV216	102259	2017-09-22	2018-09-21
EMC0102	LISN	SCHAFFNER CHASE	MN2050D/1	1421	2017-09-20	2018-09-19
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2017-11-27	2018-11-26
EMC0107	Coaxial Cable	SGS	2m	N/A	2017-07-23	2019-07-22
EMC0106	Voltage Probe	SGS	N/A	N/A	2018-04-04	2020-04-03
EMC2123	8 Line ISN Cat 6	SCHWARZBECK MESS- ELEKTRONIK	NTFM 8158	NTFM 8158 0151	2018-05-29	2019-05-29
EMC2124	8 Line ISN Cat 5	SCHWARZBECK MESS- ELEKTRONIK	CAT5 8158	CAT5 8158-188	2018-05-29	2019-05-29
EMC2126	8 Line ISN Cat 3	SCHWARZBECK MESS- ELEKTRONIK	CAT3 8158	CAT38158- 0081	2018-05-29	2019-05-29
EMC2122	ISN S8	SCHWARZBECK MESS- ELEKTRONIK	ISN S8	57	2018-05-29	2019-05-29
EMC2121	ISN S1	SCHWARZBECK MESS- ELEKTRONIK	ISN S1	10	2018-05-29	2019-05-29
EMC2125	2 wires ISN	SCHWARZBECK MESS- ELEKTRONIK	NTFM 8131	8131-198	2018-05-29	2019-05-29
EMC2047	CDN	Elektronik- Feinmechanik	L-801:AF2	2793	2015-09-19	2018-09-18
EMC2048	CDN	Elektronik- Feinmechanik	L-801:M2/M3	2738	2015-09-25	2018-09-24
EMC2062	6dB Attenuator	HP	8491A	24487	2018-04-04	2020-04-03
EMC0167	Conical metal housing	SGS-EMC	N/A	N/A	2018-04-19	2020-04-18

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19	
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18	

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

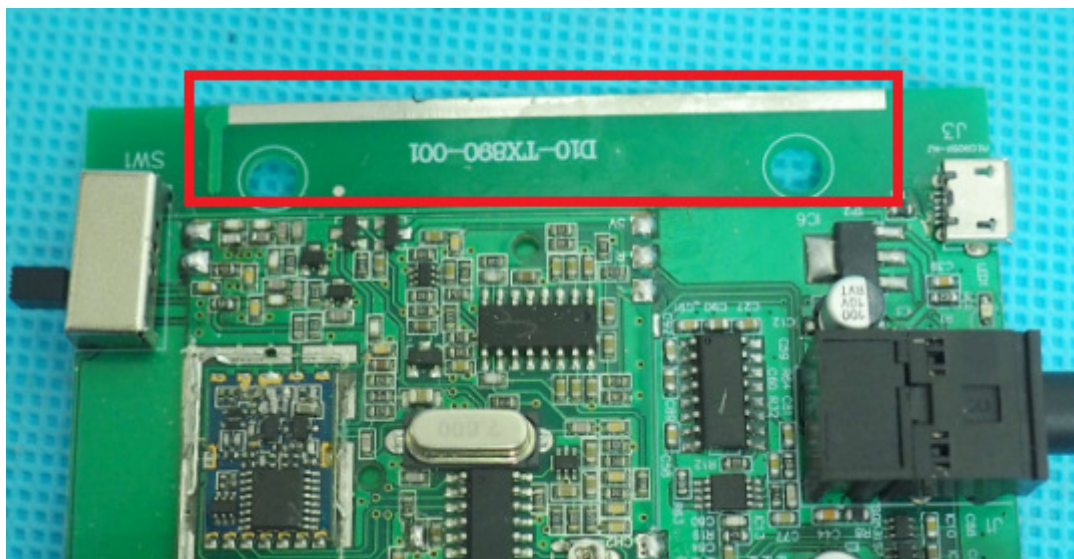
6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

Limit: 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.

6.1.2 Conclusion



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line

7.2 (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2
Limit:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

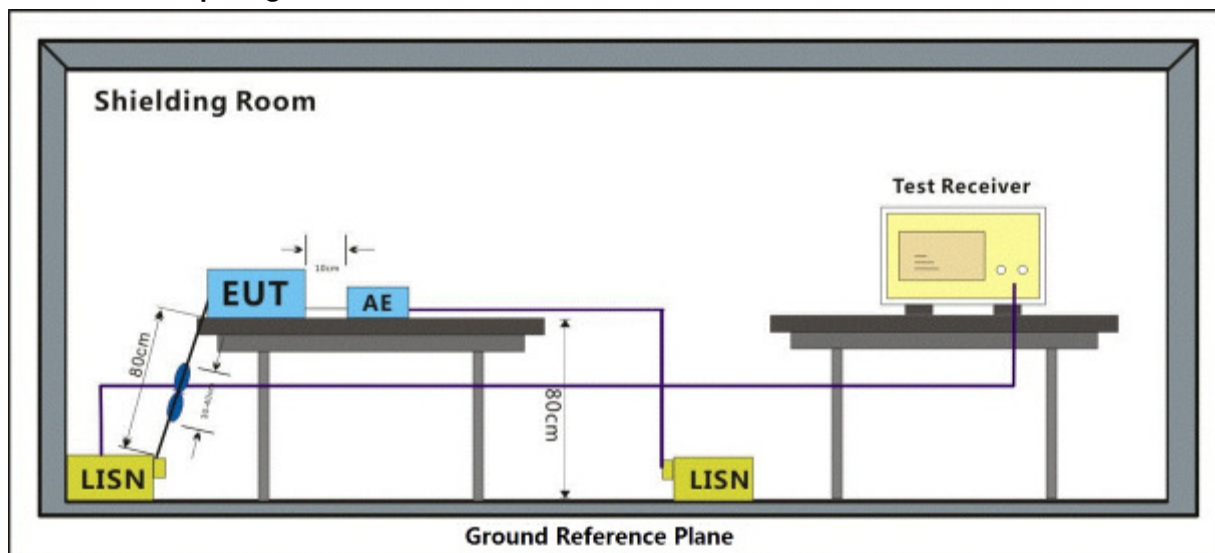
* Decreases with the logarithm of the frequency.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 56 % RH Atmospheric Pressure: 1020 mbar
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram

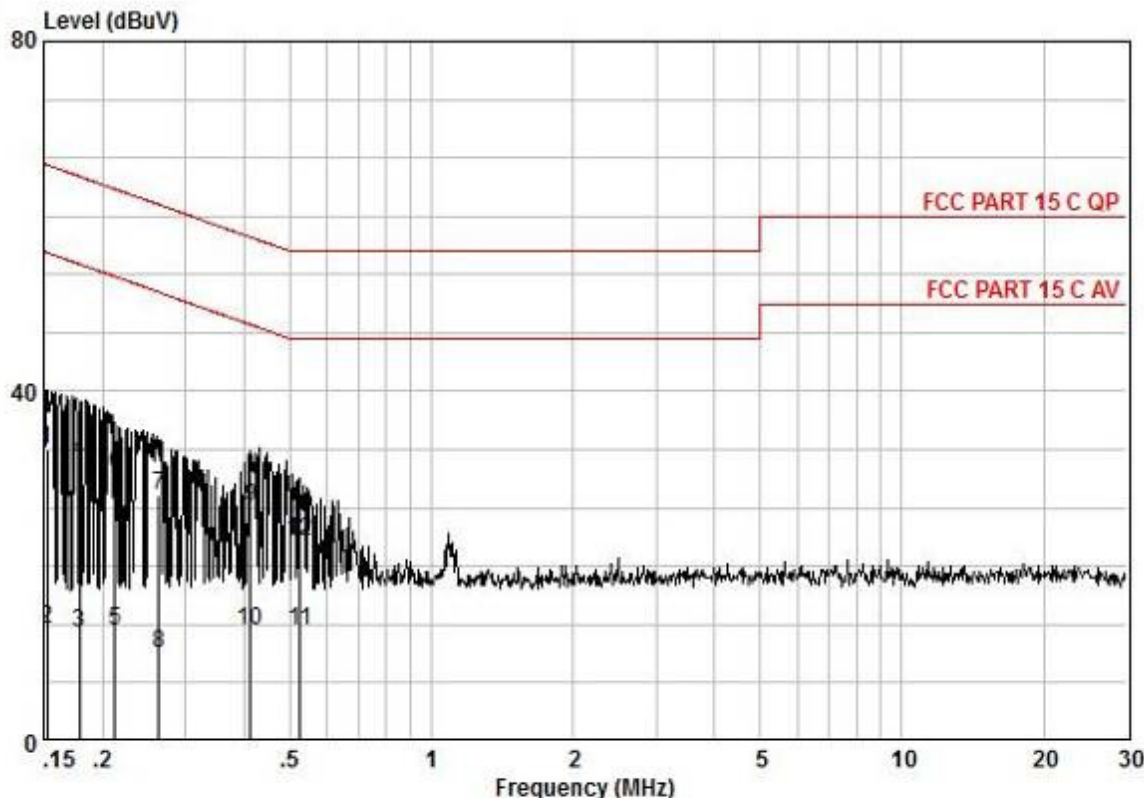


7.2.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for 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 placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference 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 on conducted measurement.

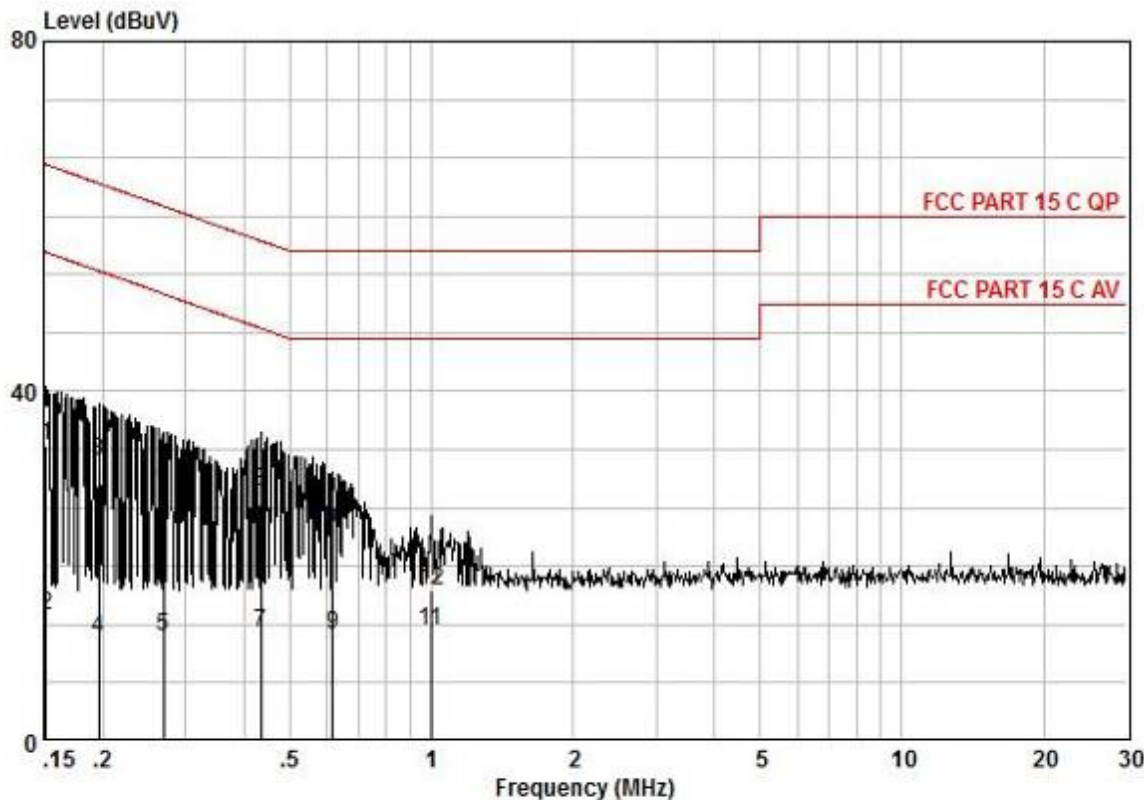
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Mode:a; Line:Live Line



Pol	:LIVE						
No	:						
Model	:						
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0,15	23,84	0,10	9,47	33,41	65,87	-32,46	QP
0,15	3,40	0,10	9,47	12,97	55,87	-42,90	AVERAGE
0,18	2,83	0,10	9,56	12,49	54,55	-42,06	AVERAGE
0,18	22,46	0,10	9,56	32,12	64,55	-32,43	QP
0,21	2,89	0,11	9,62	12,62	53,10	-40,48	AVERAGE
0,21	20,72	0,11	9,62	30,45	63,10	-32,65	QP
0,26	18,44	0,13	9,63	28,20	61,34	-33,14	QP
0,26	0,37	0,13	9,63	10,13	51,34	-41,21	AVERAGE
0,41	16,96	0,18	9,64	26,78	57,59	-30,81	QP
0,41	2,89	0,18	9,64	12,71	47,59	-34,88	AVERAGE
0,53	2,85	0,21	9,64	12,70	46,00	-33,30	AVERAGE
0,53	13,08	0,21	9,64	22,93	56,00	-33,07	QP

Mode:a; Line:Neutral Line



Pol : NEUTRAL
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0,15	24,20	0,10	9,39	33,69	65,91	-32,23	QP
0,15	4,93	0,10	9,39	14,42	55,91	-41,50	AVERAGE
0,20	22,30	0,10	9,58	31,98	63,76	-31,78	QP
0,20	2,08	0,10	9,58	11,76	53,76	-42,00	AVERAGE
0,27	2,37	0,13	9,58	12,08	51,12	-39,04	AVERAGE
0,27	19,34	0,13	9,58	29,05	61,12	-32,07	QP
0,44	2,77	0,18	9,56	12,51	47,15	-34,64	AVERAGE
0,44	18,80	0,18	9,56	28,54	57,15	-28,61	QP
0,62	2,45	0,23	9,57	12,26	46,00	-33,75	AVERAGE
0,62	14,36	0,23	9,57	24,17	56,00	-31,84	QP
1,00	2,67	0,30	9,59	12,56	46,00	-33,44	AVERAGE
1,00	7,38	0,30	9,59	17,27	56,00	-38,73	QP

7.3 20dB Bandwidth

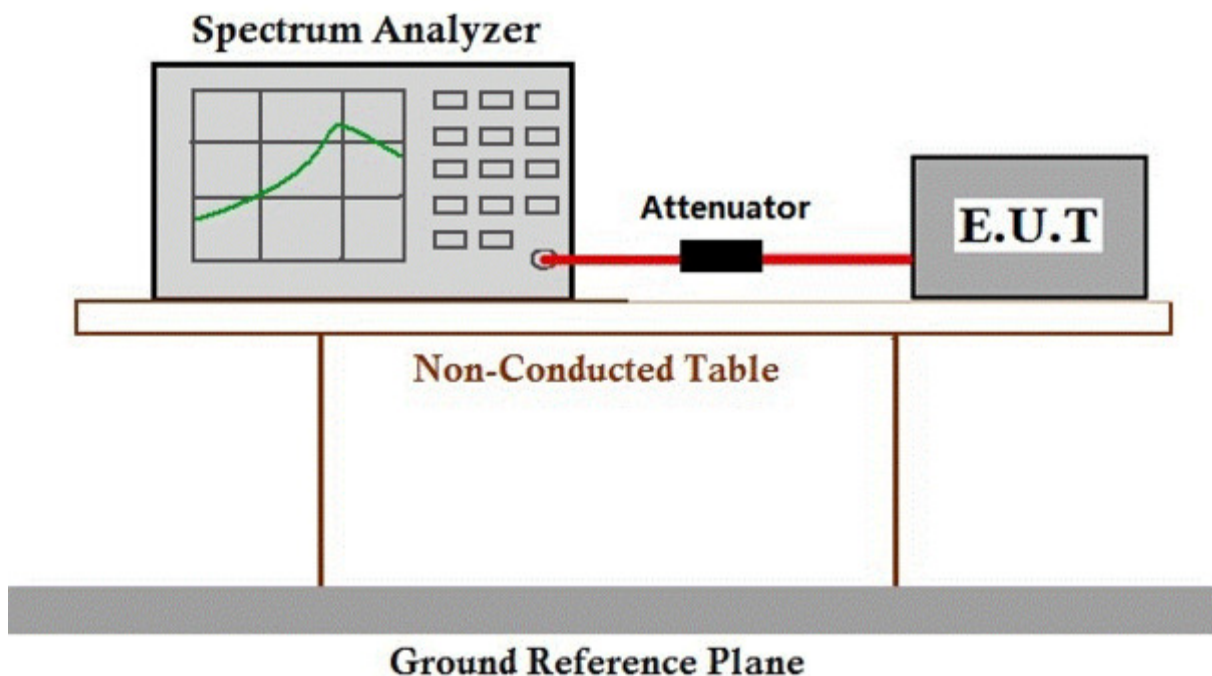
Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9
Limit: N/A

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 58.8 % RH Atmospheric Pressure: 1020 mbar
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram

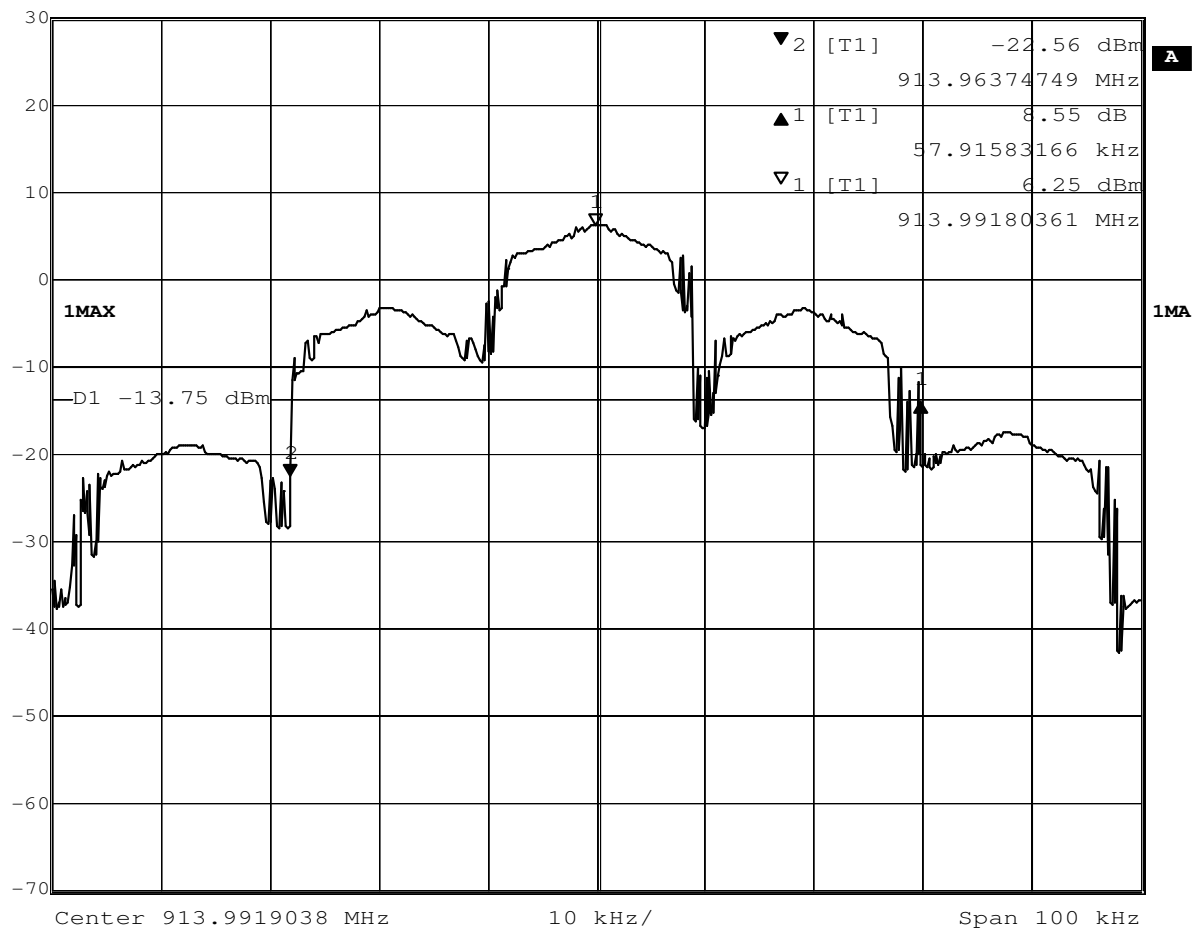




7.3.3 Measurement Procedure and Data

Mode:a; ; ; Channel:Low

	Delta 1 [T1]	RBW	1 kHz	RF Att	40 dB
Ref Lvl	8.55 dB	VBW	3 kHz		
30 dBm	57.91583166 kHz	SWT	250 ms	Unit	dBm

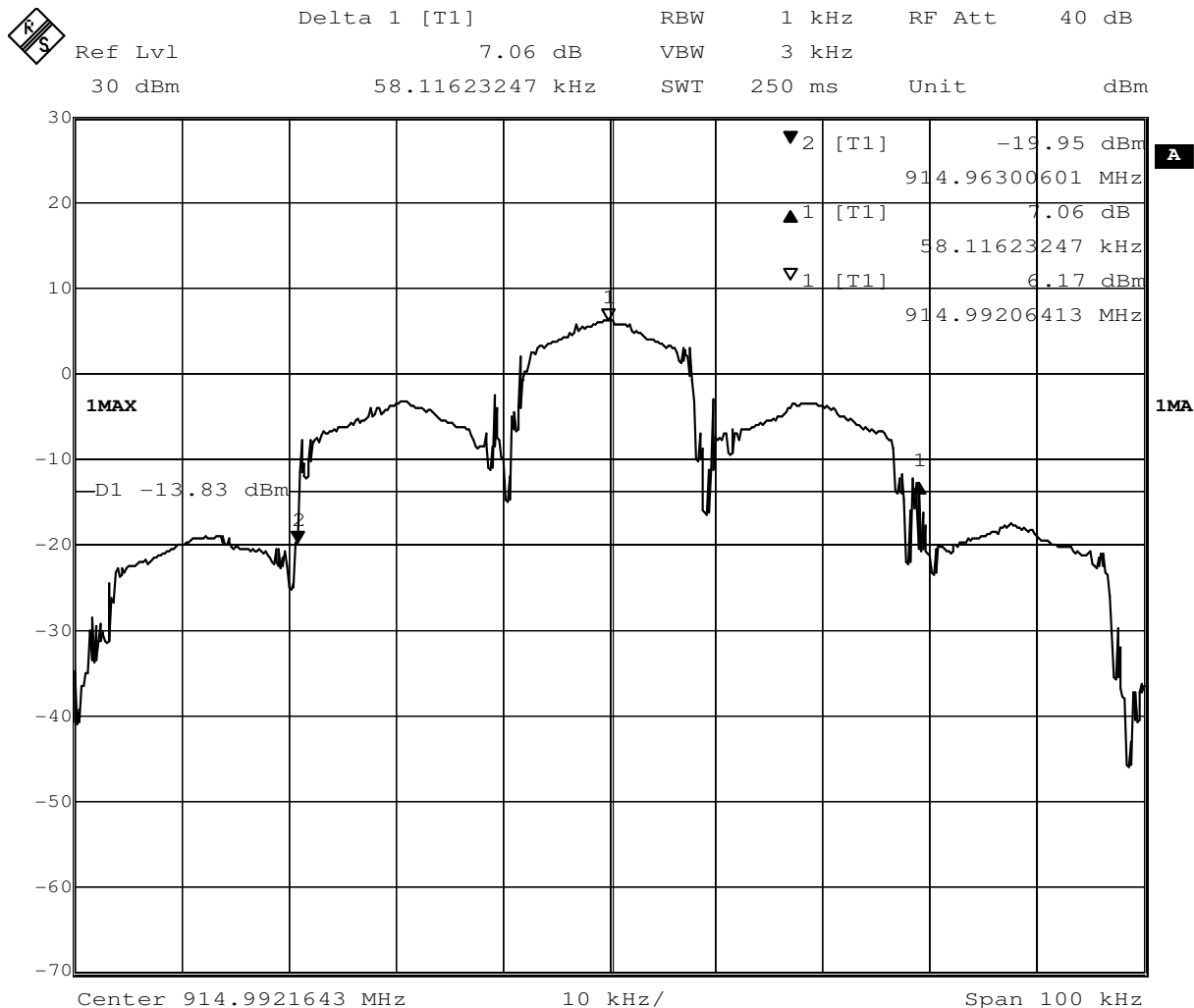




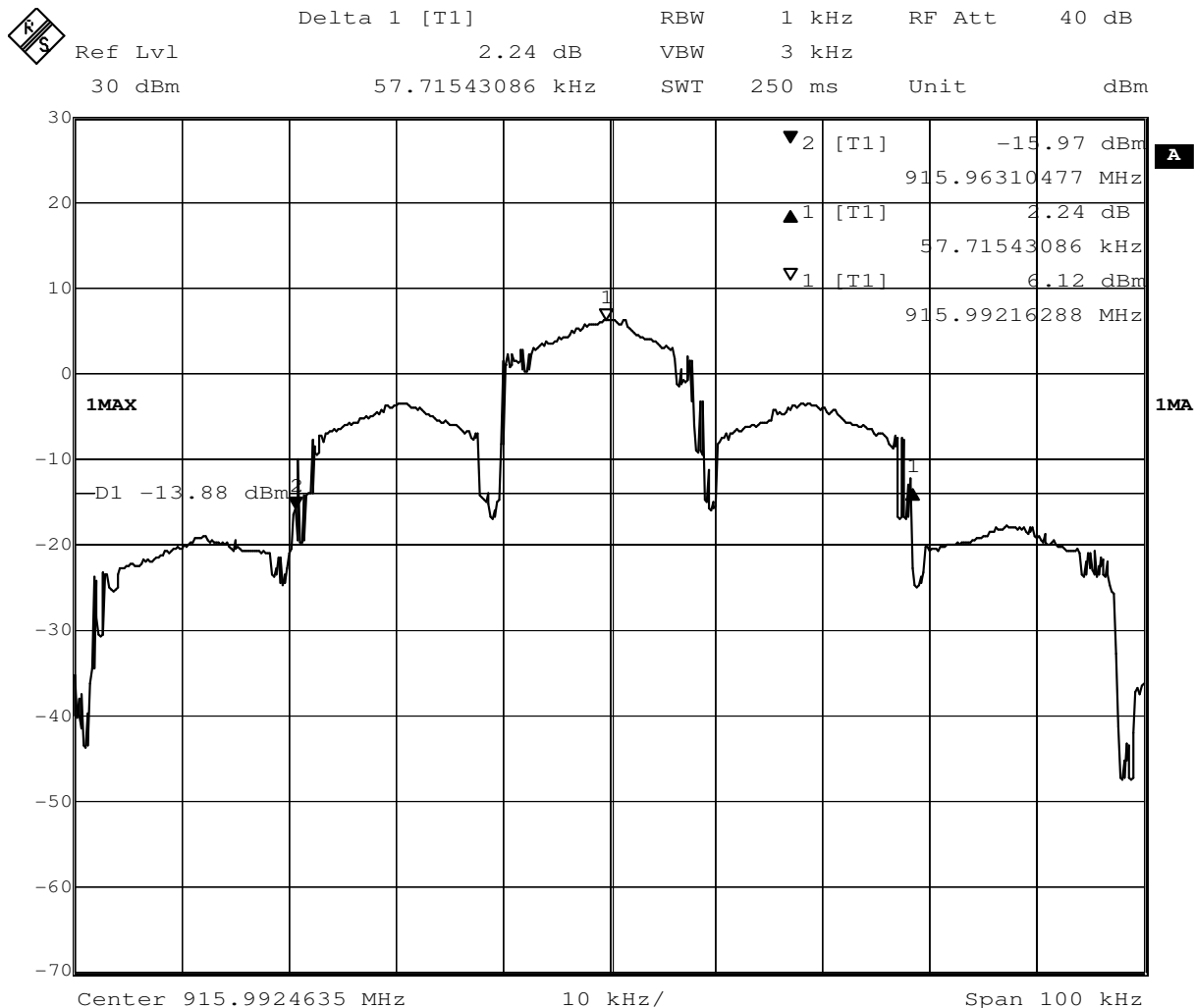
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Mode:a; ; ; Channel:middle



Mode:a; ; ; Channel:High



7.4 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6
Measurement Distance: 3m
Limit:

Frequency	Limit (dBuV/m @3m)	Remark
902MHz-928MHz	94.0	Average Value
	114.0	Peak Value

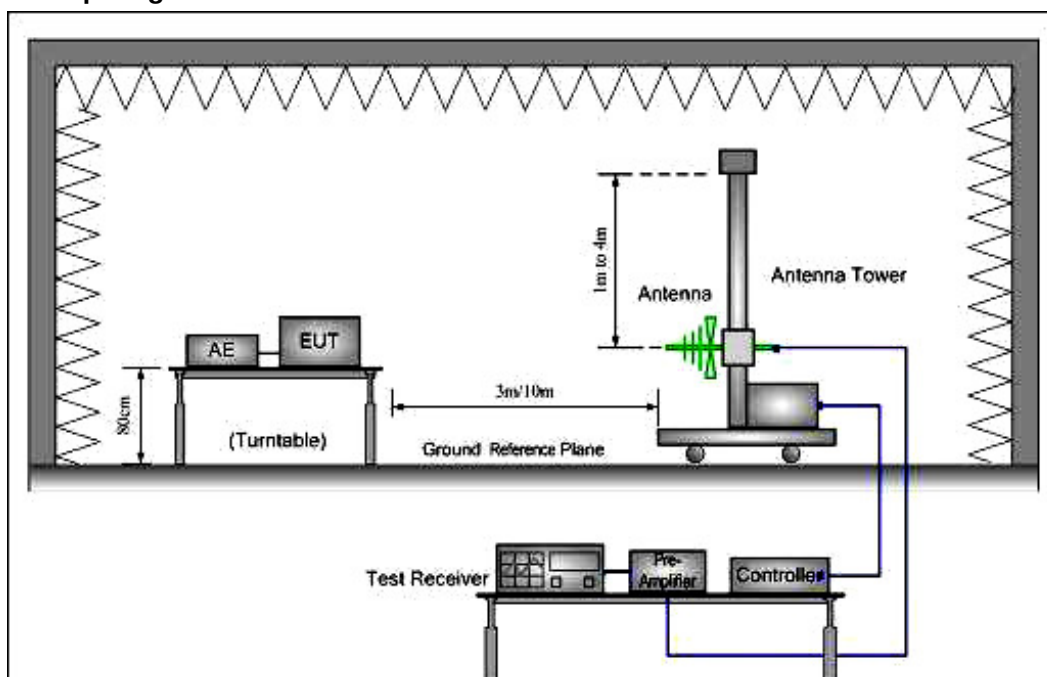
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 58.8 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram





7.4.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	914.010	76.38	23.51	3.13	27.62	75.40	94.00	-18.60	HORIZONTAL	Average
2	914.010	88.19	23.51	3.13	27.62	87.21	114.00	-26.79	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	914.010	78.58	23.51	3.13	27.62	77.60	94.00	-16.40	VERTICAL	Average
2	914.010	88.30	23.51	3.13	27.62	87.32	114.00	-26.68	VERTICAL	Peak

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:middle

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	915.012	73.18	23.55	3.13	27.62	72.24	94.00	-21.76	HORIZONTAL	Average
2	915.012	88.19	23.55	3.13	27.62	87.25	114.00	-26.75	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:middle

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	915.012	74.21	23.55	3.13	27.62	73.27	94.00	-20.73	VERTICAL	Average
2	915.012	88.28	23.55	3.13	27.62	87.34	114.00	-26.66	VERTICAL	Peak



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Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	916.014	74.57	23.55	3.13	27.62	73.63	94.00	-20.37	HORIZONTAL	Average
2	916.014	88.25	23.55	3.13	27.62	87.31	114.00	-26.69	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	916.014	74.75	23.55	3.13	27.62	73.81	94.00	-20.19	VERTICAL	Average
2	916.014	88.24	23.55	3.13	27.62	87.30	114.00	-26.70	VERTICAL	Peak

7.5 Restricted Band Around Fundamental Frequency

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6
Measurement Distance: 3m
Limit:

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
Above 1GHz	74.0	Peak Value

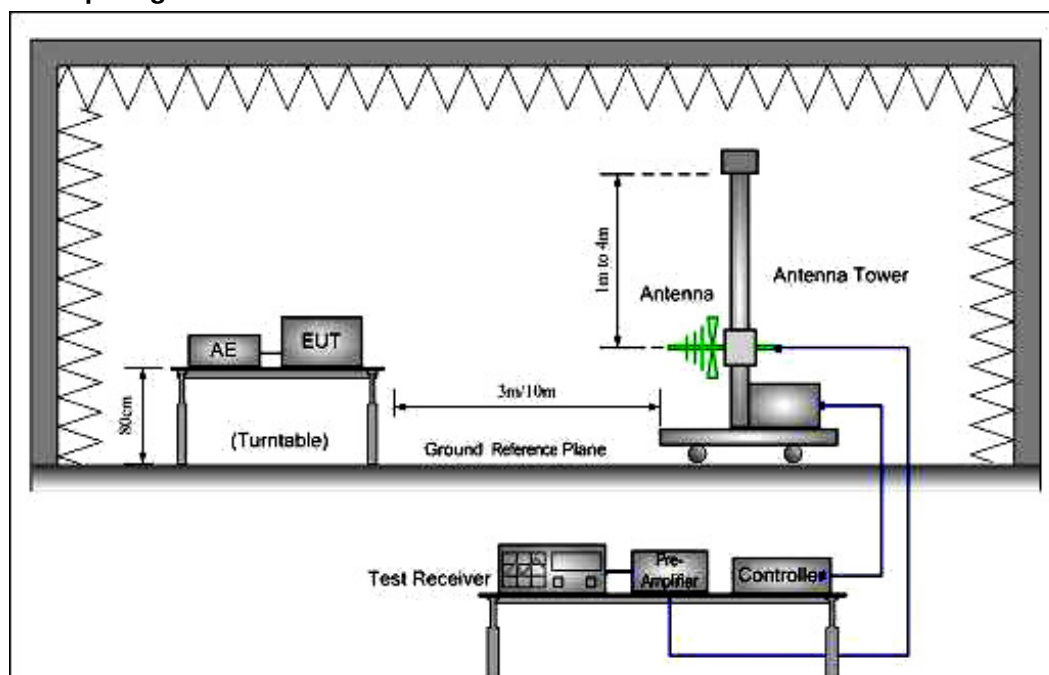
Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.5.1 E.U.T. Operation

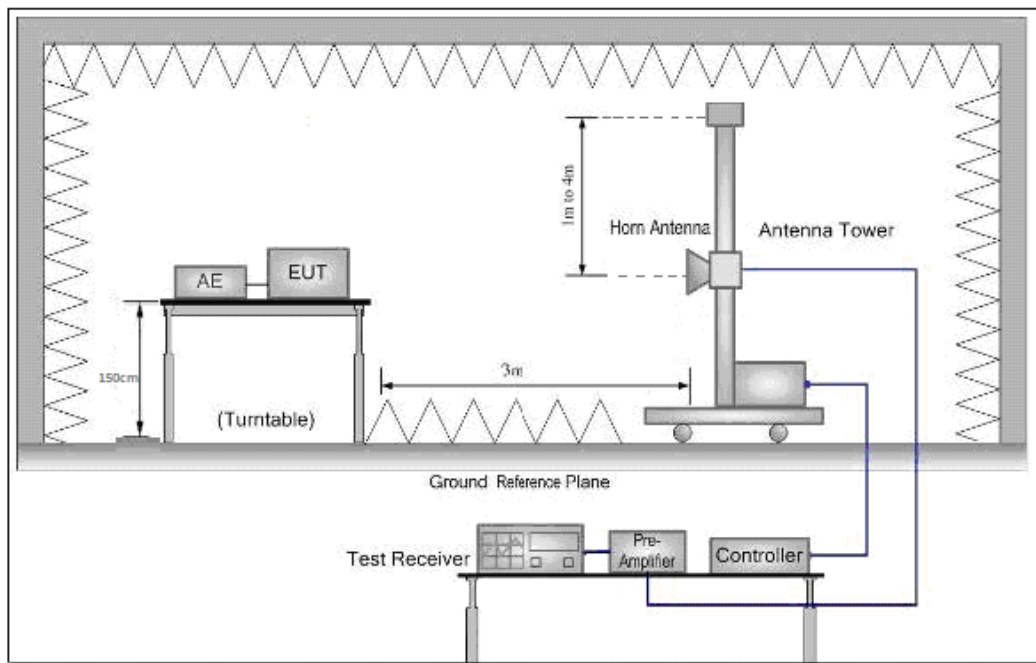
Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.5.2 Test Setup Diagram



Above 1GHz



7.5.3 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 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 the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	614.000	25.82	20.41	2.65	28.03	20.85	46.00	-25.15	HORIZONTAL	QP
2	960.000	25.94	24.17	3.20	27.60	25.71	46.00	-20.29	HORIZONTAL	QP

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	614.000	27.70	20.41	2.65	28.03	22.73	46.00	-23.27	VERTICAL	QP
2	960.000	26.62	24.17	3.20	27.60	26.39	46.00	-19.61	VERTICAL	QP

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	614.000	26.50	20.41	2.65	28.03	21.53	46.00	-24.47	HORIZONTAL	QP
2	960.000	26.91	24.17	3.20	27.60	26.68	46.00	-19.32	HORIZONTAL	QP

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	614.000	26.19	20.41	2.65	28.03	21.22	46.00	-24.78	VERTICAL	QP
2	960.000	26.45	24.17	3.20	27.60	26.22	46.00	-19.78	VERTICAL	QP

7.6 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6
Measurement Distance: 3m
Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

7.6.1 E.U.T. Operation

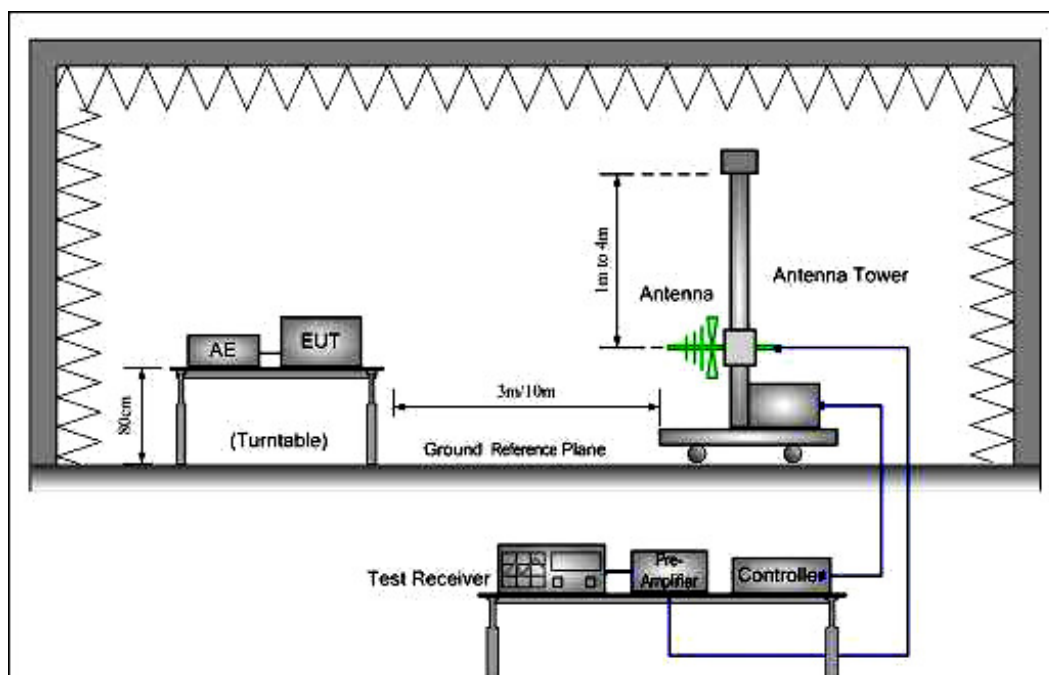
Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

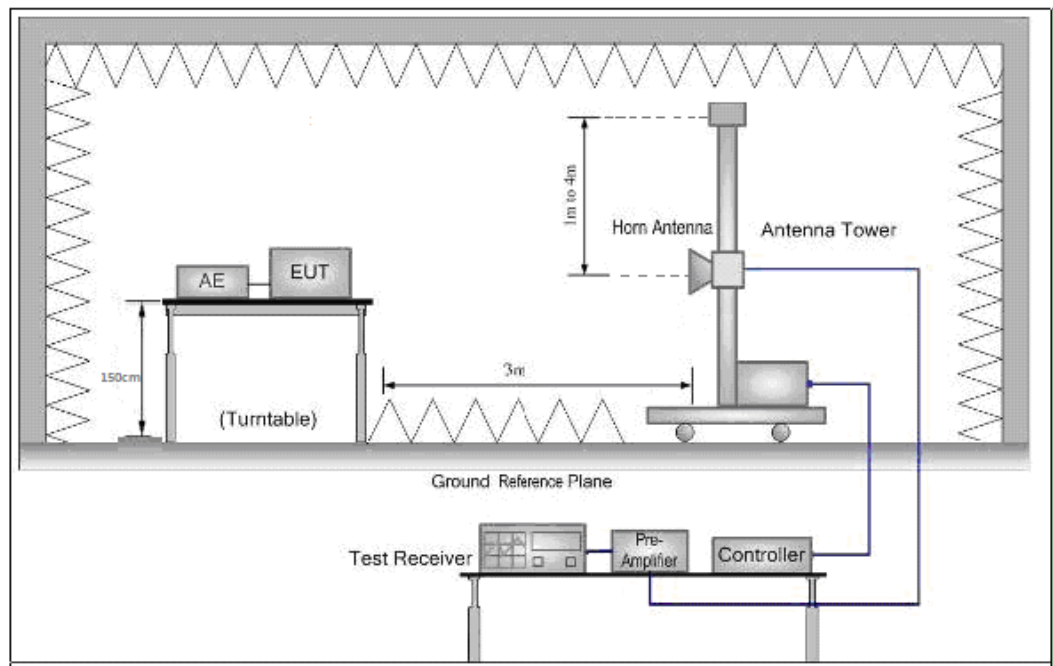
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.6.2 Test Setup Diagram

30MHz-1GHz



Above 1GHz



7.6.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Measured Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.285	25.12	13.76	0.70	27.00	12.58	40.00	-27.42	HORIZONTAL	QP
2	50.409	23.92	14.49	0.71	27.00	12.12	40.00	-27.88	HORIZONTAL	QP
3	96.436	30.48	8.73	1.10	26.91	13.40	43.50	-30.10	HORIZONTAL	QP
4	193.095	32.16	11.62	1.48	26.64	18.62	43.50	-24.88	HORIZONTAL	QP
5	287.990	34.44	13.71	1.76	26.40	23.51	46.00	-22.49	HORIZONTAL	QP
6	675.208	34.32	21.14	2.78	28.04	30.20	46.00	-15.80	HORIZONTAL	QP

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1828.098	45.40	25.16	5.75	37.54	38.77	54.00	-15.23	HORIZONTAL Average
2	1828.098	48.80	25.16	5.75	37.54	42.17	74.00	-31.83	HORIZONTAL Peak
3	2099.687	37.32	25.40	9.03	37.48	34.27	54.00	-19.73	HORIZONTAL Average
4	2099.687	45.20	25.40	9.03	37.48	42.15	74.00	-31.85	HORIZONTAL Peak
5	2742.200	48.14	27.29	4.78	37.28	42.93	54.00	-11.07	HORIZONTAL Average
6	2742.200	50.78	27.29	4.78	37.28	45.57	74.00	-28.43	HORIZONTAL Peak
7	3655.950	51.46	28.34	6.83	36.93	49.70	54.00	-4.30	HORIZONTAL Average
8	3655.950	53.84	28.34	6.83	36.93	52.08	74.00	-21.92	HORIZONTAL Peak
9	4570.774	32.84	30.22	6.92	36.92	33.06	54.00	-20.94	HORIZONTAL Average
10	4570.774	40.87	30.22	6.92	36.92	41.09	74.00	-32.91	HORIZONTAL Peak
11	5484.286	33.62	31.88	7.84	36.99	36.35	54.00	-17.65	HORIZONTAL Average
12	5484.286	42.83	31.88	7.84	36.99	45.56	74.00	-28.44	HORIZONTAL Peak

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.994	27.13	13.70	0.60	27.00	14.43	40.00	-25.57	VERTICAL QP
2	96.436	41.23	8.73	1.10	26.91	24.15	43.50	-19.35	VERTICAL QP
3	193.095	38.58	11.62	1.48	26.64	25.04	43.50	-18.46	VERTICAL QP
4	210.048	33.27	11.20	1.53	26.53	19.47	43.50	-24.03	VERTICAL QP
5	287.990	37.70	13.71	1.76	26.40	26.77	46.00	-19.23	VERTICAL QP
6	675.208	28.80	21.14	2.78	28.04	24.68	46.00	-21.32	VERTICAL QP

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:Low

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1828.098	46.01	25.16	5.75	37.54	39.38	54.00	-14.62	VERTICAL Average
2	1828.098	49.50	25.16	5.75	37.54	42.87	74.00	-31.13	VERTICAL Peak
3	2160.753	37.09	25.57	7.80	37.47	32.99	54.00	-21.01	VERTICAL Average
4	2160.753	45.47	25.57	7.80	37.47	41.37	74.00	-32.63	VERTICAL Peak
5	2742.200	49.00	27.29	4.78	37.28	43.79	54.00	-10.21	VERTICAL Average
6	2742.200	50.74	27.29	4.78	37.28	45.53	74.00	-28.47	VERTICAL Peak
7	3655.950	52.36	28.34	6.83	36.93	50.60	54.00	-3.40	VERTICAL Average
8	3655.950	55.91	28.34	6.83	36.93	54.15	74.00	-19.85	VERTICAL Peak
9	4570.538	39.64	30.22	6.92	36.92	39.86	54.00	-14.14	VERTICAL Average
10	4570.538	44.39	30.22	6.92	36.92	44.61	74.00	-29.39	VERTICAL Peak
11	5484.141	34.06	31.88	7.84	36.99	36.79	54.00	-17.21	VERTICAL Average
12	5484.141	42.53	31.88	7.84	36.99	45.26	74.00	-28.74	VERTICAL Peak

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.743	25.09	14.10	0.70	27.00	12.89	40.00	-27.11	HORIZONTAL QP
2	53.693	25.13	14.37	0.78	27.00	13.28	40.00	-26.72	HORIZONTAL QP
3	96.436	29.98	8.73	1.10	26.91	12.90	43.50	-30.60	HORIZONTAL QP
4	193.095	31.66	11.62	1.48	26.64	18.12	43.50	-25.38	HORIZONTAL QP
5	287.990	32.78	13.71	1.76	26.40	21.85	46.00	-24.15	HORIZONTAL QP
6	675.208	36.10	21.14	2.78	28.04	31.98	46.00	-14.02	HORIZONTAL QP

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:middle

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1830.098	47.89	25.16	5.75	37.54	41.26	54.00	-12.74	HORIZONTAL Average
2	1830.098	49.61	25.16	5.75	37.54	42.98	74.00	-31.02	HORIZONTAL Peak
3	2164.628	40.19	25.57	7.80	37.47	36.09	54.00	-17.91	HORIZONTAL Average
4	2164.628	45.30	25.57	7.80	37.47	41.20	74.00	-32.80	HORIZONTAL Peak
5	2745.118	48.73	27.29	4.78	37.28	43.52	54.00	-10.48	HORIZONTAL Average
6	2745.118	51.13	27.29	4.78	37.28	45.92	74.00	-28.08	HORIZONTAL Peak
7	3659.950	51.52	28.34	6.83	36.93	49.76	54.00	-4.24	HORIZONTAL Average
8	3659.950	54.40	28.34	6.83	36.93	52.64	74.00	-21.36	HORIZONTAL Peak
9	4575.537	35.63	30.22	6.92	36.92	35.85	54.00	-18.15	HORIZONTAL Average
10	4575.537	43.41	30.22	6.92	36.92	43.63	74.00	-30.37	HORIZONTAL Peak
11	5490.026	35.17	31.88	7.84	36.99	37.90	54.00	-16.10	HORIZONTAL Average
12	5490.026	43.10	31.88	7.84	36.99	45.83	74.00	-28.17	HORIZONTAL Peak

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:middle

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	38.346	28.22	13.73	0.70	27.00	15.65	40.00	-24.35	VERTICAL	QP
2	42.007	27.97	13.81	0.64	27.00	15.42	40.00	-24.58	VERTICAL	QP
3	96.436	41.51	8.73	1.10	26.91	24.43	43.50	-19.07	VERTICAL	QP
4	193.095	39.71	11.62	1.48	26.64	26.17	43.50	-17.33	VERTICAL	QP
5	287.990	36.84	13.71	1.76	26.40	25.91	46.00	-20.09	VERTICAL	QP
6	675.208	29.94	21.14	2.78	28.04	25.82	46.00	-20.18	VERTICAL	QP

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:middle

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1830.098	46.55	25.16	5.75	37.54	39.92	54.00	-14.08	VERTICAL	Average
2	1830.098	50.60	25.16	5.75	37.54	43.97	74.00	-30.03	VERTICAL	Peak
3	2176.294	37.17	25.61	7.63	37.47	32.94	54.00	-21.06	VERTICAL	Average
4	2176.294	45.64	25.61	7.63	37.47	41.41	74.00	-32.59	VERTICAL	Peak
5	2745.118	49.70	27.29	4.78	37.28	44.49	54.00	-9.51	VERTICAL	Average
6	2745.118	52.30	27.29	4.78	37.28	47.09	74.00	-26.91	VERTICAL	Peak
7	3659.950	52.31	28.34	6.83	36.93	50.55	54.00	-3.45	VERTICAL	Average
8	3659.950	54.69	28.34	6.83	36.93	52.93	74.00	-21.07	VERTICAL	Peak
9	4575.019	36.76	30.22	6.92	36.92	36.98	54.00	-17.02	VERTICAL	Average
10	4575.019	42.74	30.22	6.92	36.92	42.96	74.00	-31.04	VERTICAL	Peak
11	5490.796	34.06	31.88	7.84	36.99	36.79	54.00	-17.21	VERTICAL	Average
12	5490.796	43.25	31.88	7.84	36.99	45.98	74.00	-28.02	VERTICAL	Peak

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	31.071	23.75	14.07	0.60	27.00	11.42	40.00	-28.58	HORIZONTAL	QP
2	56.792	22.92	14.19	0.80	27.00	10.91	40.00	-29.09	HORIZONTAL	QP
3	96.436	31.23	8.73	1.10	26.91	14.15	43.50	-29.35	HORIZONTAL	QP
4	193.095	32.82	11.62	1.48	26.64	19.28	43.50	-24.22	HORIZONTAL	QP
5	287.990	34.09	13.71	1.76	26.40	23.16	46.00	-22.84	HORIZONTAL	QP
6	675.208	38.00	21.14	2.78	28.04	33.88	46.00	-12.12	HORIZONTAL	QP

Mode:a; Polarization:Horizontal; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1306.004	41.86	24.80	2.91	38.10	31.47	54.00	-22.53	HORIZONTAL	Average
2	1306.004	47.16	24.80	2.91	38.10	36.77	74.00	-37.23	HORIZONTAL	Peak
3	1832.098	47.94	25.16	5.75	37.54	41.31	54.00	-12.69	HORIZONTAL	Average
4	1832.098	50.64	25.16	5.75	37.54	44.01	74.00	-29.99	HORIZONTAL	Peak
5	2748.044	51.88	27.33	4.77	37.28	46.70	54.00	-7.30	HORIZONTAL	Average
6	2748.044	53.62	27.33	4.77	37.28	48.44	74.00	-25.56	HORIZONTAL	Peak
7	3664.723	49.43	28.34	6.83	36.93	47.67	54.00	-6.33	HORIZONTAL	Average
8	3664.723	52.20	28.34	6.83	36.93	50.44	74.00	-23.56	HORIZONTAL	Peak
9	4580.357	36.70	30.22	6.92	36.92	36.92	54.00	-17.08	HORIZONTAL	Average
10	4580.357	43.54	30.22	6.92	36.92	43.76	74.00	-30.24	HORIZONTAL	Peak
11	5496.026	37.92	31.90	7.89	36.99	40.72	54.00	-13.28	HORIZONTAL	Average
12	5496.026	43.11	31.90	7.89	36.99	45.91	74.00	-28.09	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	53.318	24.46	14.39	0.78	27.00	12.63	40.00	-27.37	VERTICAL	QP
2	96.436	42.53	8.73	1.10	26.91	25.45	43.50	-18.05	VERTICAL	QP
3	166.651	33.36	13.40	1.37	26.72	21.41	43.50	-22.09	VERTICAL	QP
4	193.095	40.46	11.62	1.48	26.64	26.92	43.50	-16.58	VERTICAL	QP
5	287.990	38.50	13.71	1.76	26.40	27.57	46.00	-18.43	VERTICAL	QP
6	675.208	33.17	21.14	2.78	28.04	29.05	46.00	-16.95	VERTICAL	QP

Mode:a; Polarization:Vertical; Modulation:FM; ; Channel:High

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1343.987	41.06	24.86	3.07	38.05	30.94	54.00	-23.06	VERTICAL	Average
2	1343.987	47.81	24.86	3.07	38.05	37.69	74.00	-36.31	VERTICAL	Peak
3	1832.098	46.14	25.16	5.75	37.54	39.51	54.00	-14.49	VERTICAL	Average
4	1832.098	49.43	25.16	5.75	37.54	42.80	74.00	-31.20	VERTICAL	Peak
5	2748.044	51.79	27.33	4.77	37.28	46.61	54.00	-7.39	VERTICAL	Average
6	2748.044	53.64	27.33	4.77	37.28	48.46	74.00	-25.54	VERTICAL	Peak
7	3663.950	52.73	28.34	6.83	36.93	50.97	54.00	-3.03	VERTICAL	Average
8	3663.950	53.62	28.34	6.83	36.93	51.86	74.00	-22.14	VERTICAL	Peak
9	4580.864	36.11	30.24	6.96	36.92	36.39	54.00	-17.61	VERTICAL	Average
10	4580.864	42.46	30.24	6.96	36.92	42.74	74.00	-31.26	VERTICAL	Peak
11	5496.763	34.25	31.90	7.89	36.99	37.05	54.00	-16.95	VERTICAL	Average
12	5496.763	42.54	31.90	7.89	36.99	45.34	74.00	-28.66	VERTICAL	Peak

--End of Report--