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Report No.: SHEMA180900784502

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TEST REPORT

Application No.: SHEMA1809007845CR
FCC ID 2APV2-CSDB1
IC 23928- CSDB1
Applicant: Hangzhou Ezviz Software Co., Ltd.
Address of Applicant: Floor 16,Unit B,Building 1, No. 555, Qianmo Road, Binjiang District, Hangzhou City,Zhejiang Province
Manufacturer: Hangzhou Ezviz Software Co., Ltd.
Address of Manufacturer: Floor 16,Unit B,Building 1, No. 555, Qianmo Road, Binjiang District, Hangzhou City,Zhejiang Province
Factory: Hangzhou Hikvision Electronics Co., Ltd.
Address of Factory: No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou.

Equipment Under Test (EUT):

EUT Name: Wi-Fi Doorbell Camera
Model No.: CS-DB1
Add Model No.: CS-DB1i, CS-DB1C, CSDB1S, CS-DB1Si
Brand Name: EZVIZ
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5, April 2018
Date of Receipt: 2018-10-19
Date of Test: 2018-10-19 to 2018-10-25
Date of Issue: 2018-10-25

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



Parlam Zhan
E&E Section 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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Revision Record			
Version	Description	Date	Remark
00	/	2018-10-25	Original

Authorized for issue by:			
		<hr/> Vincent Zhu / Project Engineer	
		<hr/> Parlam Zhan /Reviewer	

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass
99% Bandwidth	RSS-247 Issue 2, February 2017	ANSI C63.10 Section 6.9.3	RSS-Gen Section 6.6	Pass

N/A: Not applicable

Note: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model CS-DB1 was tested since their differences were the software version, their naming and color silk.

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 8~24V
Test voltage:	AC 12V
Antenna Gain	1 dBi
Antenna Type	Integral
DFS Function	Slave without Radar detection
TPC Function	Not Support

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4	
	802.11n(HT40)/ac(HT40)	5190-5230	2	
	802.11ac(HT80)	5210	1	
UNII Band II-A	802.11a/n(HT20)/ac(HT20)	5260-5320	4	
	802.11n(HT40)/ac(HT40)	5270-5310	2	
	802.11ac(HT80)	5290	1	
UNII Band II-C	802.11a/n(HT20)/ac(HT20)	5500-5700	11	
	802.11n(HT40)/ac(HT40)	5510-5670	5	
	802.11ac(HT80)	5530~5610	2	
UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5	
	802.11n(HT40)/ac(HT40)	5755-5795	2	
	802.11ac(HT80)	5775	1	
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-15 802.11ac: MCS0-9			



Selected Test Channel for 802.11a/n(HT20)/ac(HT20)

Band	Channel	Frequency
U-NII Band I	The lowest channel (CH36)	5180MHz
	The middle channel (CH40)	5200MHz
	The highest channel (CH48)	5240MHz
U-NII Band II-A	The lowest channel (CH52)	5260MHz
	The middle channel (CH60)	5300MHz
	The highest channel (CH64)	5320MHz
U-NII Band II-C	The lowest channel (CH100)	5500MHz
	The middle channel (CH120)	5600MHz
	The highest channel (CH140)	5700MHz
U-NII Band III	The lowest channel (CH149)	5745MHz
	The middle channel (CH157)	5785MHz
	The highest channel (CH165)	5825MHz

Selected Test Channel for 802.11n(HT40)/ac(HT40)

Band	Channel	Frequency
U-NII Band I	The lowest channel (CH38)	5190MHz
	The highest channel (CH46)	5230MHz
U-NII Band II-A	The lowest channel (CH54)	5270MHz
	The highest channel (CH62)	5310MHz
U-NII Band II-C	The lowest channel (CH102)	5510MHz
	The middle channel (CH118)	5590MHz
	The highest channel (CH134)	5670MHz
U-NII Band III	The lowest channel (CH151)	5755MHz
	The highest channel (CH159)	5795MHz

Selected Test Channel for 802.11ac(HT80)

Band	Channel	Frequency
U-NII Band I	One channel (CH42)	5210MHz
U-NII Band II-A	One channel (CH58)	5290MHz
U-NII Band II-C	The lowest channel (CH106)	5530MHz
	The middle channel (CH122)	5610MHz
U-NII Band III	One channel (CH155)	5775MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10-8
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.75dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	4.5dB (Below 1GHz) 4.8dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz) 4.4dB (30MHz-1GHz) 4.6dB (1GHz-18GHz) 5.2dB (Above 18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2018-09-26	2019-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2018-07-22	2019-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2018-07-03	2019-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2018-09-26	2019-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2018-10-22	2019-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2018-09-26	2019-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-26	2019-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	LNA-0001-412010	SHEM164-1	2018-08-22	2019-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2018-08-22	2019-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

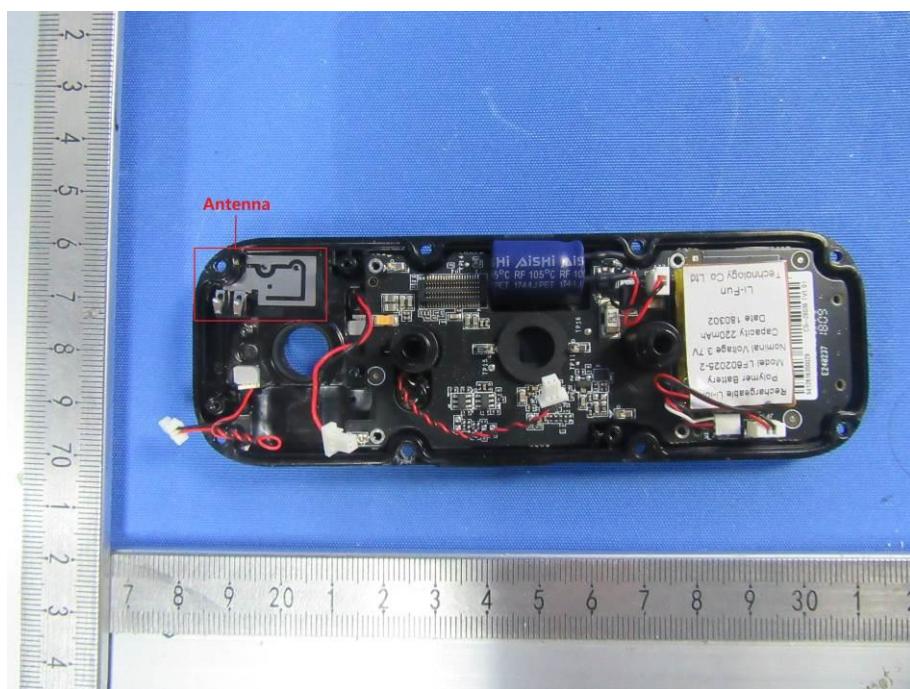
6.1.2 Conclusion

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 and no consideration of replacement. The best case gain of the antenna is 1dBi.





6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip (BCM43455) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

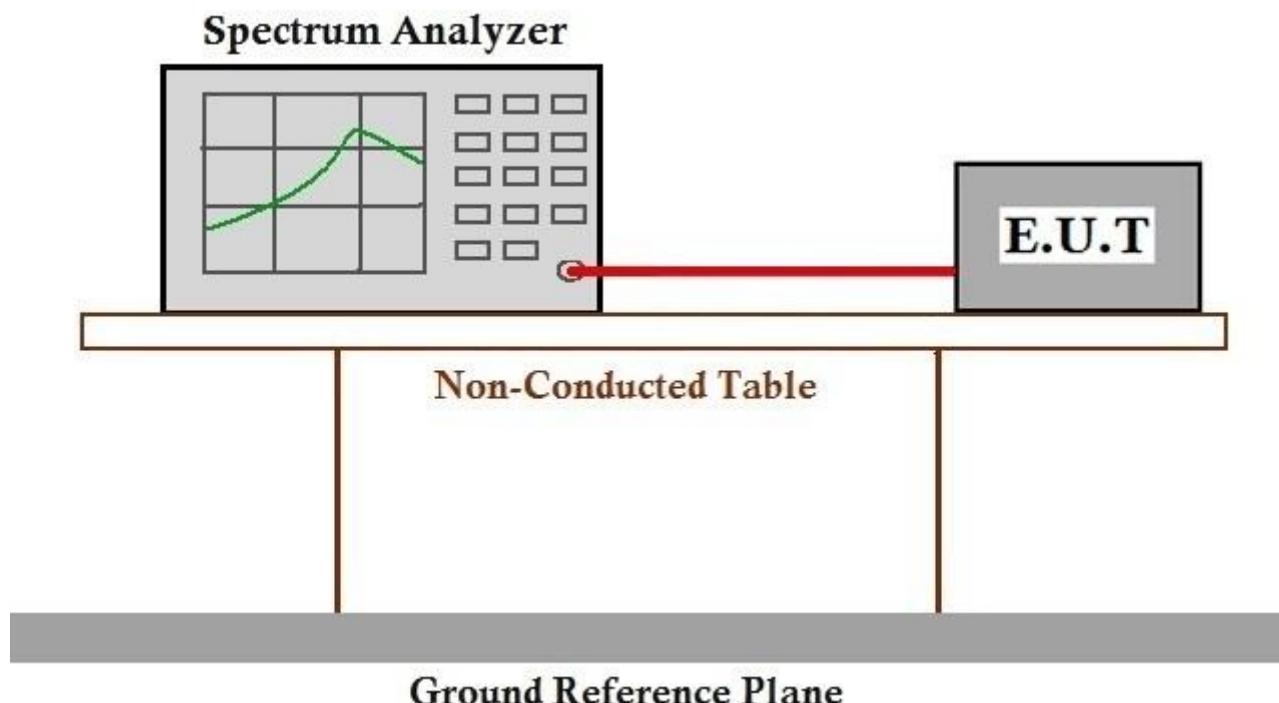
Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar
Test mode d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEMA180900784502

7.2 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:

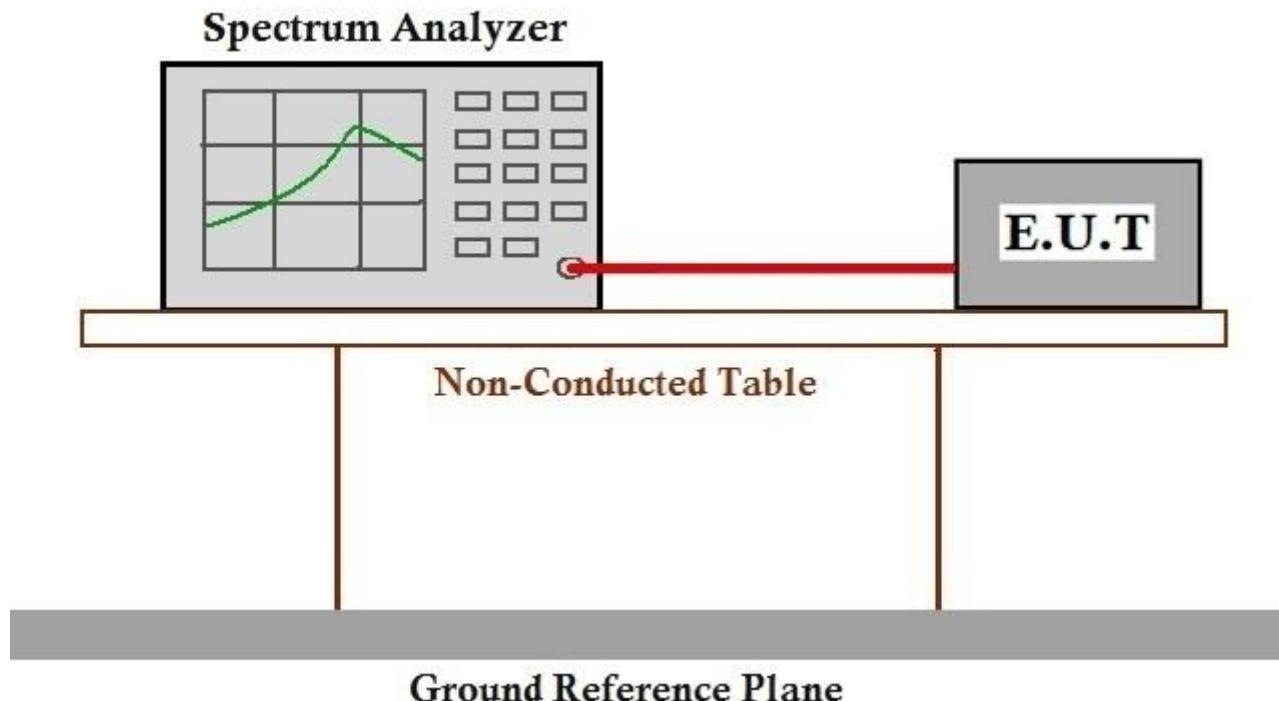
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram**7.2.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEMA180900784502

7.3 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

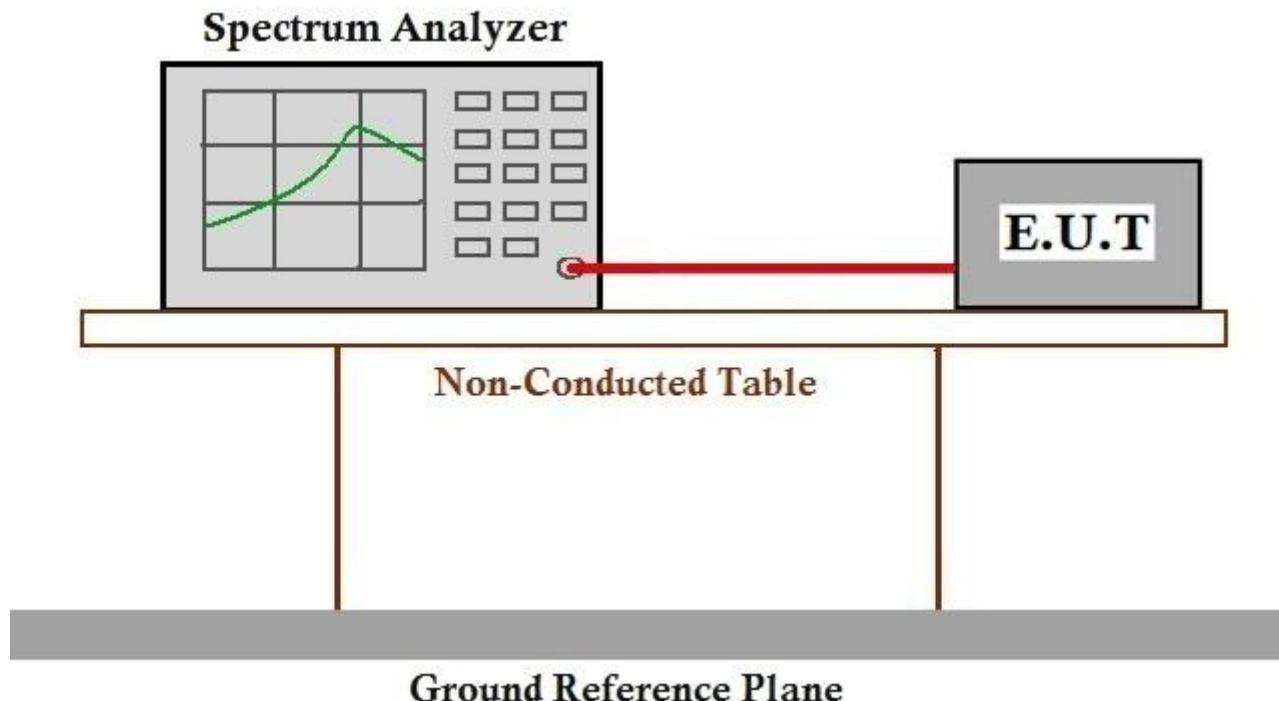
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram**7.3.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEMA180900784502

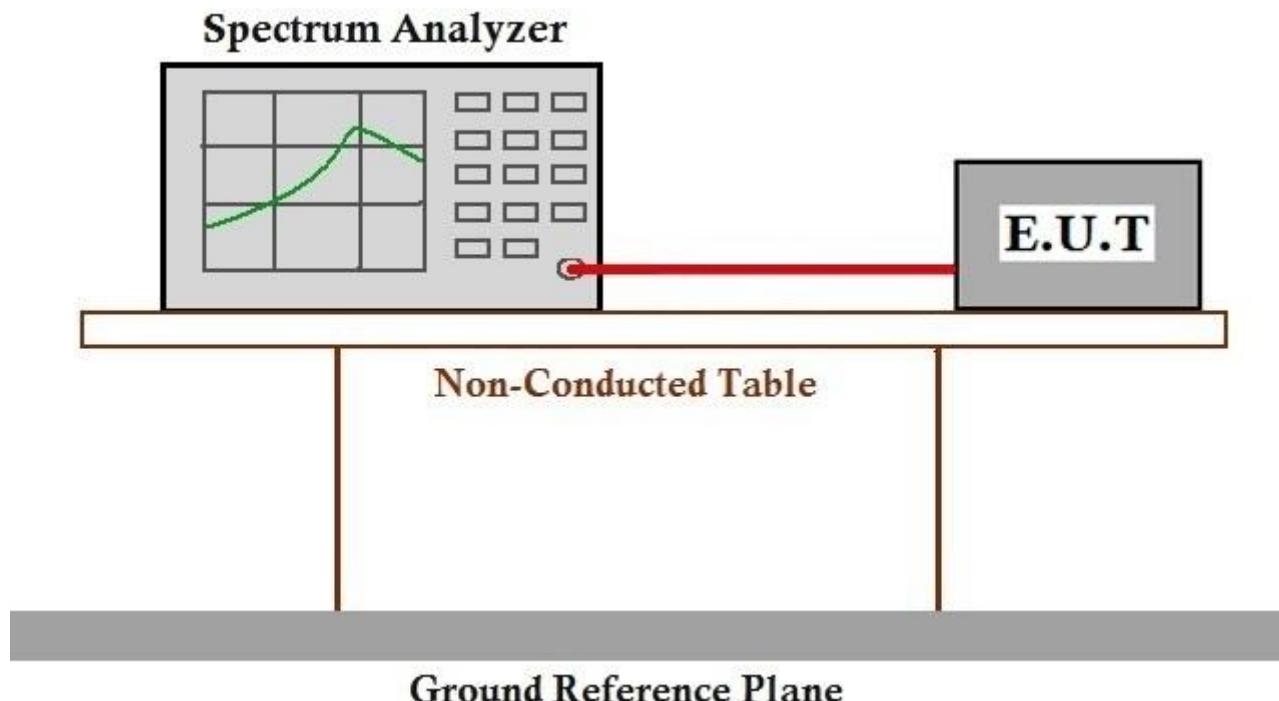
7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)
Test Method: KDB 789033 D02 II C 2
Limit: ≥ 500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar
Test mode e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram**7.4.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEMA180900784502

7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. For IC 5150MHz to 5250MHz limit is EIRP≤200mW(23dBm)</p>

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

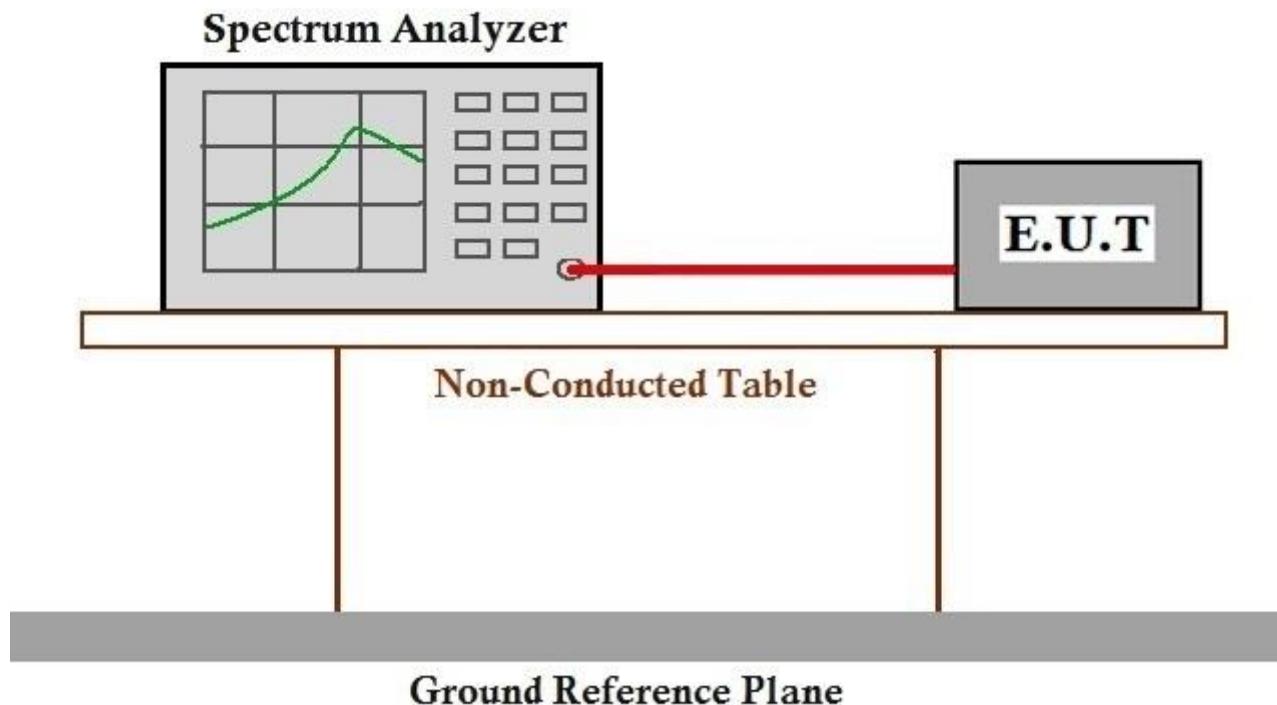
c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEMA180900784502

7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. For IC 5150MHz to 5250MHz limit is EIRP PSD≤10dBm

7.6.1 E.U.T. Operation

Operating Environment:

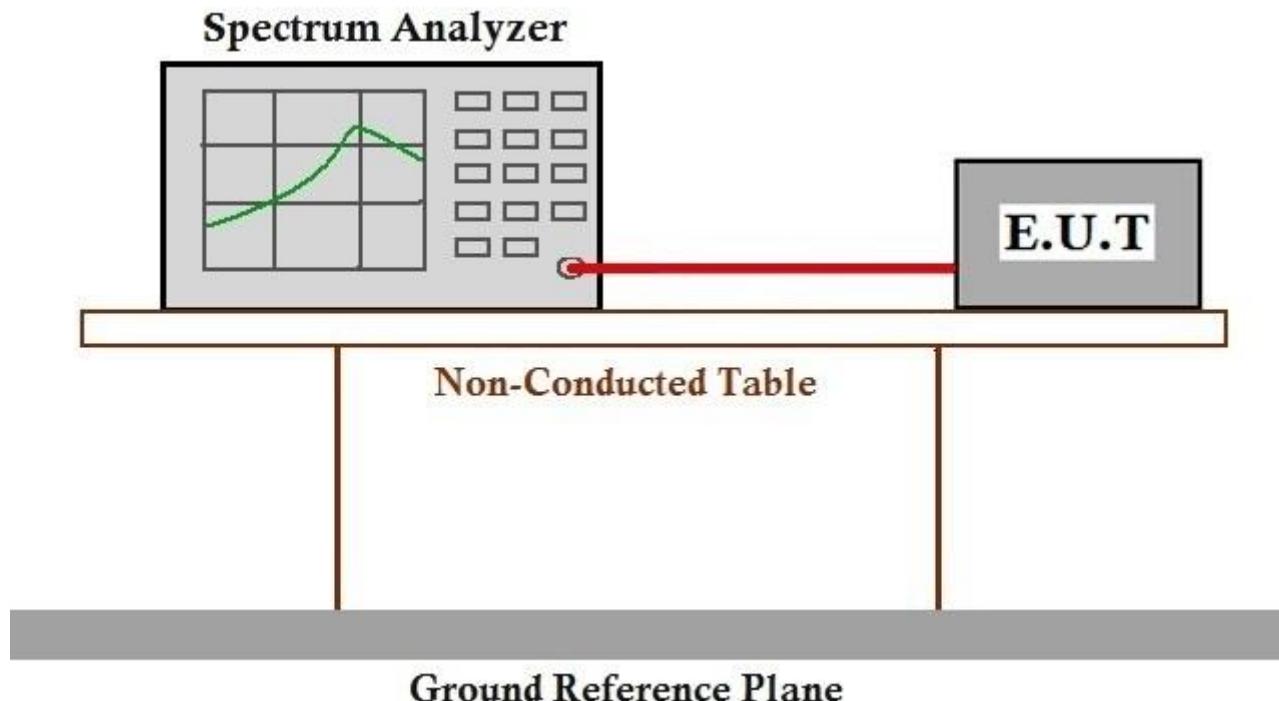
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram**7.6.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEMA180900784502

7.7 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

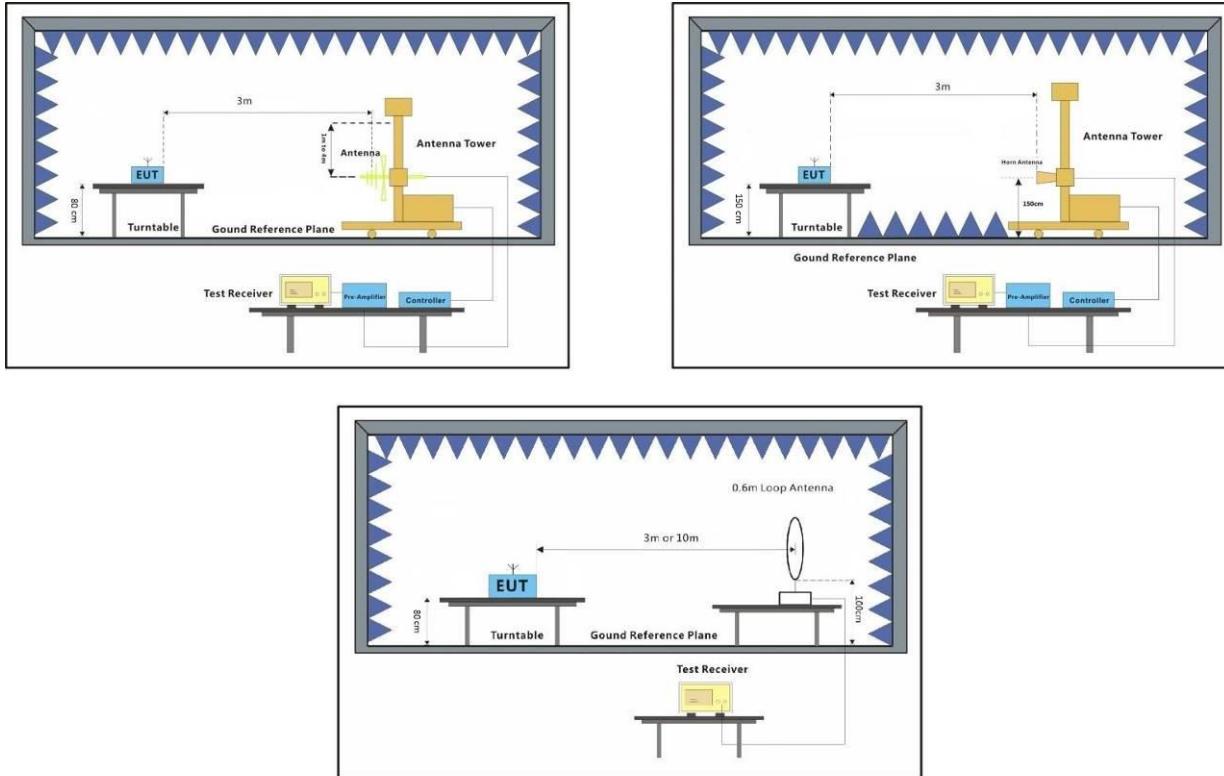
Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram



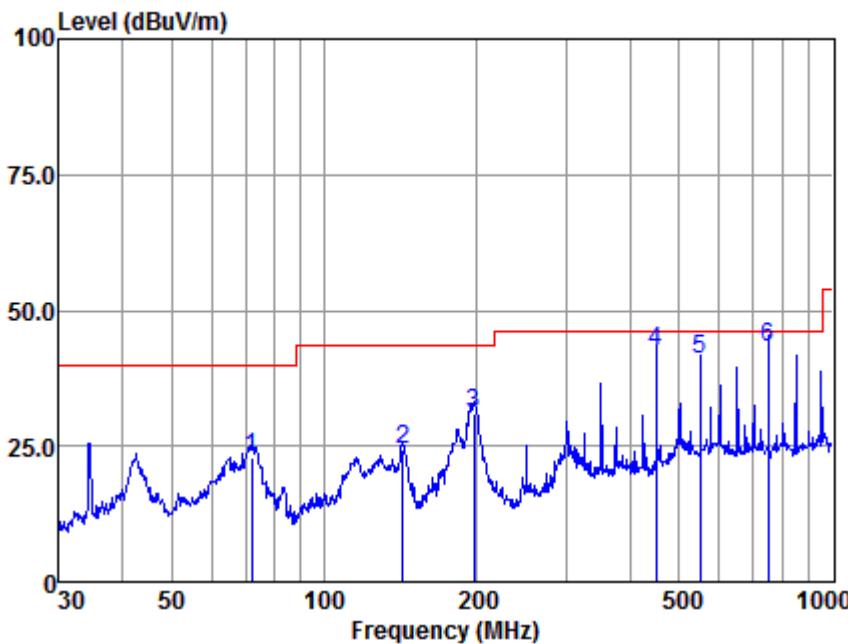
7.7.3 Measurement Procedure and Data

- 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:

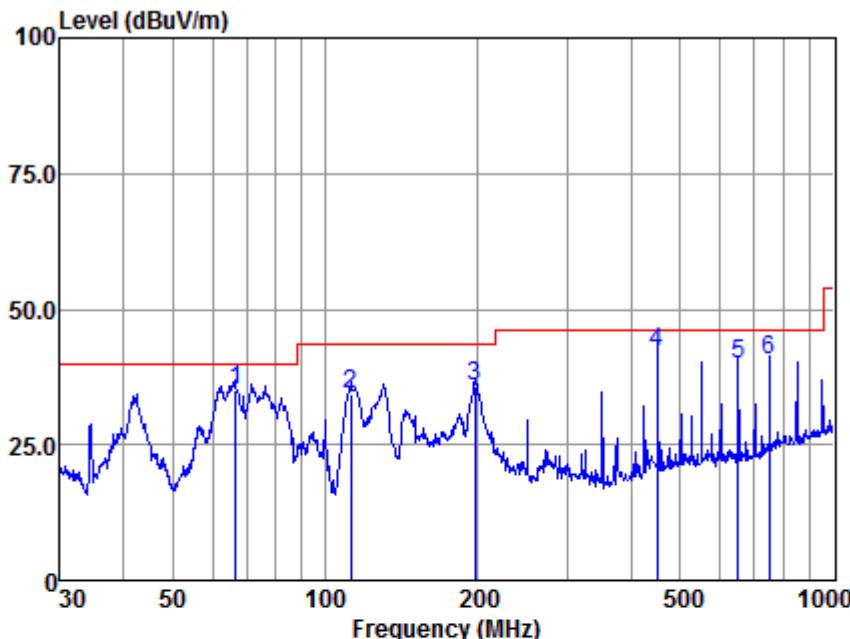
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Below 1GHz:

**Antenna Polarity :HORIZONTAL**

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
1	72.08	54.65	10.68	0.35	42.67	23.01	40.00	-16.99	QP	
2	142.82	55.00	11.48	0.61	42.63	24.46	43.50	-19.04	QP	
3	197.20	63.38	9.64	0.69	42.53	31.18	43.50	-12.32	QP	
4	451.14	67.37	16.23	1.09	42.12	42.57	46.00	-3.43	QP	
5	550.95	63.39	18.38	1.28	42.17	40.88	46.00	-5.12	QP	
6	750.11	62.89	21.09	1.88	42.57	43.29	46.00	-2.71	QP	

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

**Antenna Polarity :VERTICAL**

Freq	Read	Antenna	Cable	Preamp	Emission	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1 66.50	65.45	11.81	0.32	42.66	34.92	40.00	-5.08	QP
2 112.52	66.91	9.70	0.51	42.70	34.42	43.50	-9.08	QP
3 197.20	68.03	9.64	0.69	42.53	35.83	43.50	-7.67	QP
4 451.14	66.88	16.23	1.09	42.12	42.08	46.00	-3.92	QP
5 651.94	60.83	19.84	1.51	42.25	39.93	46.00	-6.07	QP
6 750.11	60.06	21.09	1.88	42.57	40.46	46.00	-5.54	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

Above 1GHz:

Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10360	33.78	14.28	48.06	68.2	-20.14	peak
15540	29.56	21.58	51.14	54	-2.86	peak
20720	28.03	23.16	51.19	54	-2.81	peak

Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10360	32.34	14.28	46.62	68.2	-21.58	peak
15540	26.35	21.58	47.93	54	-6.07	peak
20720	28.10	23.16	51.26	54	-2.74	peak

Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10440	32.99	14.14	47.13	68.2	-21.07	peak
15660	27.50	21.22	48.72	54	-5.28	peak
20880	30.16	23.24	53.40	54	-0.60	peak

Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10440	31.98	14.14	46.12	68.2	-22.08	peak
15660	28.04	21.22	49.26	54	-4.74	peak
20880	27.20	23.24	50.44	54	-3.56	peak

Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10480	34.17	14.08	48.25	68.2	-19.95	peak
15720	31.15	21.10	52.25	54	-1.75	peak
20960	28.69	23.64	52.33	54	-1.67	peak

Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10480	35.01	14.08	49.09	68.2	-19.11	peak
15720	27.71	21.10	48.81	54	-5.19	peak
20960	26.20	23.64	49.84	54	-4.16	peak

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10360	32.24	14.28	46.52	68.2	-21.68	peak
15540	26.69	21.58	48.27	54	-5.73	peak
20720	26.50	23.16	49.66	54	-4.34	peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10360	31.55	14.28	45.83	68.2	-22.37	peak
15540	28.72	21.58	50.30	54	-3.70	peak
20720	26.54	23.16	49.70	54	-4.30	peak

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10440	30.54	14.14	44.68	68.2	-23.52	peak
15660	25.51	21.22	46.73	54	-7.27	peak
20880	26.56	23.24	49.80	54	-4.20	peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10440	33.39	14.14	47.53	68.2	-20.67	peak
15660	27.64	21.22	48.86	54	-5.14	peak
20880	26.68	23.24	49.92	54	-4.08	peak

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10480	29.25	14.08	43.33	68.2	-24.87	peak
15720	29.86	21.10	50.96	54	-3.04	peak
20960	25.75	23.64	49.39	54	-4.61	peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10480	33.82	14.08	47.90	68.2	-20.30	peak
15720	29.38	21.10	50.48	54	-3.52	peak
20960	26.32	23.64	49.96	54	-4.04	peak

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10380	31.88	14.25	46.13	68.2	-22.07	peak
15570	29.46	21.49	50.95	54	-3.05	peak
20760	27.30	23.16	50.46	54	-3.54	peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10380	31.71	14.25	45.96	68.2	-22.24	peak
15570	28.70	21.49	50.19	54	-3.81	peak
20760	29.68	23.16	52.84	54	-1.16	peak

Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10460	32.21	14.11	46.32	68.2	-21.88	peak
15690	30.34	21.14	51.48	54	-2.52	peak
20920	24.15	23.31	47.46	54	-6.54	peak

Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10460	31.47	14.11	45.58	68.2	-22.62	peak
15690	27.71	21.14	48.85	54	-5.15	peak
20920	27.45	23.31	50.76	54	-3.24	peak

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10360	31.79	14.28	46.07	68.2	-22.13	peak
15540	29.76	21.58	51.34	54	-2.66	peak
20720	30.10	23.16	53.26	54	-0.74	peak

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10360	32.29	14.28	46.57	68.2	-21.63	peak
15540	26.86	21.58	48.44	54	-5.56	peak
20720	27.55	23.16	50.71	54	-3.29	peak

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10440	33.63	14.14	47.77	68.2	-20.43	peak
15660	26.62	21.22	47.84	54	-6.16	peak
20880	28.46	23.24	51.70	54	-2.30	peak

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10440	30.66	14.14	44.80	68.2	-23.40	peak
15660	26.80	21.22	48.02	54	-5.98	peak
20880	29.44	23.24	52.68	54	-1.32	peak

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10480	34.62	14.08	48.70	68.2	-19.50	peak
15720	30.65	21.10	51.75	54	-2.25	peak
20960	29.91	23.64	53.55	54	-0.45	peak

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10480	31.81	14.08	45.89	68.2	-22.31	peak
15720	26.65	21.10	47.75	54	-6.25	peak
20960	26.62	23.64	50.26	54	-3.74	peak

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10380	33.82	14.25	48.07	68.2	-20.13	peak
15570	29.22	21.49	50.71	54	-3.29	peak
20760	29.47	23.16	52.63	54	-1.37	peak

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10380	33.64	14.25	47.89	68.2	-20.31	peak
15570	30.94	21.49	52.43	54	-1.57	peak
20760	26.47	23.16	49.63	54	-4.37	peak



Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10460	32.22	14.11	46.33	68.2	-21.87	peak
15690	29.62	21.14	50.76	54	-3.24	peak
20920	29.92	23.31	53.23	54	-0.77	peak

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10460	30.90	14.11	45.01	68.2	-23.19	peak
15690	29.87	21.14	51.01	54	-2.99	peak
20920	29.97	23.31	53.28	54	-0.72	peak

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10420	31.21	14.17	45.38	68.2	-22.82	peak
15630	30.36	21.32	51.68	54	-2.32	peak
20840	29.47	23.54	53.01	54	-0.99	peak

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
10420	31.19	14.17	45.36	68.2	-22.84	peak
15630	26.90	21.32	48.22	54	-5.78	peak
20840	29.38	23.54	52.92	54	-1.08	peak

Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10520	31.50	14.04	45.54	68.2	-22.66	peak
15780	31.31	21.10	52.41	54	-1.59	peak
21040	29.78	23.08	52.86	54	-1.14	peak

Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10520	33.24	14.04	47.28	68.2	-20.92	peak
15780	32.43	21.10	53.53	54	-0.47	peak
21040	27.94	23.08	51.02	54	-2.98	peak

Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10560	34.28	14.05	48.33	68.2	-19.87	peak
15840	29.54	21.10	50.64	54	-3.36	peak
21120	29.36	23.14	52.50	54	-1.50	peak

Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10560	32.18	14.05	46.23	68.2	-21.97	peak
15840	32.64	21.10	53.74	54	-0.26	peak
21120	29.90	23.14	53.04	54	-0.96	peak

Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10640	33.14	14.13	47.27	54	-6.73	peak
15960	32.44	21.10	53.54	54	-0.46	peak
21280	28.66	23.27	51.93	54	-2.07	peak

Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
10640	29.82	14.13	43.95	54	-10.05	peak
15960	31.80	21.10	52.90	54	-1.10	peak
21280	28.18	23.27	51.45	54	-2.55	peak

Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
10520	33.87	14.04	47.91	68.2	-20.29	peak
15780	31.25	21.10	52.35	54	-1.65	peak
21040	30.13	23.08	53.21	54	-0.79	peak

Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
10520	34.97	14.04	49.01	68.2	-19.19	peak
15780	30.31	21.10	51.41	54	-2.59	peak
21040	28.65	23.08	51.73	54	-2.27	peak

Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
10560	32.57	14.05	46.62	68.2	-21.58	peak
15840	32.48	21.10	53.58	54	-0.42	peak
21120	30.48	23.14	53.62	54	-0.38	peak

Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
10560	32.92	14.05	46.97	68.2	-21.23	peak
15840	31.10	21.10	52.20	54	-1.80	peak
21120	29.93	23.14	53.07	54	-0.93	peak

Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10640	34.16	14.13	48.29	54	-5.71	peak
15960	28.02	21.10	49.12	54	-4.88	peak
21280	27.78	23.27	51.05	54	-2.95	peak

Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10640	31.85	14.13	45.98	54	-8.02	peak
15960	29.43	21.10	50.53	54	-3.47	peak
21280	28.33	23.27	51.60	54	-2.40	peak

Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10540	33.67	14.05	47.72	68.2	-20.48	peak
15810	32.54	21.10	53.64	54	-0.36	peak
21080	29.81	23.11	52.92	54	-1.08	peak

Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10540	35.14	14.05	49.19	68.2	-19.01	peak
15810	31.10	21.10	52.20	54	-1.80	peak
21080	29.83	23.11	52.94	54	-1.06	peak

Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10620	34.22	14.08	48.30	54	-5.70	peak
15930	32.18	21.10	53.28	54	-0.72	peak
21240	29.51	23.24	52.75	54	-1.25	peak

Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10620	33.34	14.08	47.42	54	-6.58	peak
15930	30.73	21.10	51.83	54	-2.17	peak
21240	29.96	23.24	53.20	54	-0.80	peak

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10520	34.27	14.04	48.31	68.2	-19.89	peak
15780	30.96	21.10	52.06	54	-1.94	peak
21040	28.24	23.08	51.32	54	-2.68	peak

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10520	31.95	14.04	45.99	68.2	-22.21	peak
15780	32.12	21.10	53.22	54	-0.78	peak
21040	27.60	23.08	50.68	54	-3.32	peak

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10560	30.26	14.05	44.31	68.2	-23.89	peak
15840	30.78	21.10	51.88	54	-2.12	peak
21120	29.33	23.14	52.47	54	-1.53	peak

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10560	33.62	14.05	47.67	68.2	-20.53	peak
15840	29.28	21.10	50.38	54	-3.62	peak
21120	27.00	23.14	50.14	54	-3.86	peak

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10640	33.83	14.13	47.96	54	-6.04	peak
15960	29.64	21.10	50.74	54	-3.26	peak
21280	29.52	23.27	52.79	54	-1.21	peak

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10640	32.63	14.13	46.76	54	-7.24	peak
15960	28.56	21.10	49.66	54	-4.34	peak
21280	28.44	23.27	51.71	54	-2.29	peak

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10540	32.65	14.05	46.70	68.2	-21.50	peak
15810	30.96	21.10	52.06	54	-1.94	peak
21080	28.17	23.11	51.28	54	-2.72	peak

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10540	33.13	14.05	47.18	68.2	-21.02	peak
15810	32.51	21.10	53.61	54	-0.39	peak
21080	30.74	23.11	53.85	54	-0.15	peak

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10620	34.01	14.08	48.09	54	-5.91	peak
15930	32.66	21.10	53.76	54	-0.24	peak
21240	27.59	23.24	50.83	54	-3.17	peak

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10620	28.65	14.08	42.73	54	-11.27	peak
15930	29.82	21.10	50.92	54	-3.08	peak
21240	30.02	23.24	53.26	54	-0.74	peak

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10580	32.50	14.05	46.55	68.2	-21.65	peak
15870	32.23	21.09	53.32	54	-0.68	peak
21160	28.23	23.17	51.40	54	-2.60	peak

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
10580	32.06	14.05	46.11	68.2	-22.09	peak
15870	31.35	21.09	52.44	54	-1.56	peak
21160	30.57	23.17	53.74	54	-0.26	peak

Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11000	31.82	14.54	46.36	54	-7.64	peak
16500	29.10	22.64	51.74	68.2	-16.46	peak
22000	31.40	23.83	55.23	68.2	-12.97	peak



Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11000	31.14	14.54	45.68	54	-8.32	peak
16500	29.29	22.64	51.93	68.2	-16.27	peak
22000	30.90	23.83	54.73	68.2	-13.47	peak

Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11200	33.19	14.25	47.44	54	-6.56	peak
16800	27.19	22.92	50.11	68.2	-18.09	peak
22400	27.24	24.06	51.30	54	-2.70	peak

Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11200	34.64	14.25	48.89	54	-5.11	peak
16800	31.50	22.92	54.42	68.2	-13.78	peak
22400	28.48	24.06	52.54	54	-1.46	peak

Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11440	31.60	14.38	45.98	54	-8.02	peak
17160	29.12	22.82	51.94	68.2	-16.26	peak
22880	29.00	24.56	53.56	54	-0.44	peak

Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11440	32.49	14.38	46.87	54	-7.13	peak
17160	29.18	22.82	52.00	68.2	-16.20	peak
22880	27.49	24.56	52.05	54	-1.95	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11000	34.64	14.54	49.18	54	-4.82	peak
16500	28.25	22.64	50.89	68.2	-17.31	peak
22000	28.52	23.83	52.35	68.2	-15.85	peak

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11000	32.57	14.54	47.11	54	-6.89	peak
16500	32.44	22.64	55.08	68.2	-13.12	peak
22000	30.50	23.83	54.33	68.2	-13.87	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11200	33.60	14.25	47.85	54	-6.15	peak
16800	30.48	22.92	53.40	68.2	-14.80	peak
22400	27.85	24.06	51.91	54	-2.09	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
11400	32.42	14.37	46.79	54	-7.21	peak
17100	29.53	22.87	52.40	68.2	-15.80	peak
22800	26.38	24.47	50.85	54	-3.15	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV	Limit dBuV	Over Limit dB	Detector
11440	31.97	14.38	46.35	54	-7.65	peak
17160	30.25	22.82	53.07	68.2	-15.13	peak
22880	26.32	24.56	50.88	54	-3.12	peak

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11440	31.85	14.38	46.23	54	-7.77	peak
17160	27.49	22.82	50.31	68.2	-17.89	peak
22880	28.27	24.56	52.83	54	-1.17	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11020	36.65	14.52	51.17	54	-2.83	peak
16530	28.76	22.70	51.46	68.2	-16.74	peak
22040	28.34	23.86	52.20	54	-1.80	peak

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11020	35.67	14.52	50.19	54	-3.81	peak
16530	28.49	22.70	51.19	68.2	-17.01	peak
22040	28.23	23.86	52.09	54	-1.91	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11180	36.77	14.29	51.06	54	-2.94	peak
16770	28.79	22.91	51.70	68.2	-16.50	peak
22360	29.93	24.03	53.96	54	-0.04	peak

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11180	35.43	14.29	49.72	54	-4.28	peak
16770	31.47	22.91	54.38	68.2	-13.82	peak
22360	27.89	24.03	51.92	54	-2.08	peak

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:high

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11340	32.12	14.33	46.45	54	-7.55	peak
17010	28.78	22.96	51.74	68.2	-16.46	peak
22680	26.11	24.34	50.45	54	-3.55	peak

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:high

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11340	33.85	14.33	48.18	54	-5.82	peak
17010	27.36	22.96	50.32	68.2	-17.88	peak
22680	29.11	24.34	53.45	54	-0.55	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11000	32.89	14.54	47.43	54	-6.57	peak
16500	30.40	22.64	53.04	68.2	-15.16	peak
22000	30.87	23.83	54.70	68.2	-13.50	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11000	35.60	14.54	50.14	54	-3.86	peak
16500	30.06	22.64	52.70	68.2	-15.50	peak
22000	29.31	23.83	53.14	68.2	-15.06	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11200	33.25	14.25	47.50	54	-6.50	peak
16800	27.42	22.92	50.34	68.2	-17.86	peak
22400	26.63	24.06	50.69	54	-3.31	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11200	34.38	14.25	48.63	54	-5.37	peak
16800	29.44	22.92	52.36	68.2	-15.84	peak
22400	27.85	24.06	51.91	54	-2.09	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11400	32.34	14.37	46.71	54	-7.29	peak
17100	27.66	22.87	50.53	68.2	-17.67	peak
22800	26.71	24.47	51.18	54	-2.82	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11440	31.95	14.38	46.33	54	-7.67	peak
17160	27.44	22.82	50.26	68.2	-17.94	peak
22880	28.13	24.56	52.69	54	-1.31	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11020	32.62	14.52	47.14	54	-6.86	peak
16530	29.31	22.70	52.01	68.2	-16.19	peak
22040	26.32	23.86	50.18	54	-3.82	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11020	34.90	14.52	49.42	54	-4.58	peak
16530	27.22	22.70	49.92	68.2	-18.28	peak
22040	29.03	23.86	52.89	54	-1.11	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11180	36.91	14.29	51.20	54	-2.80	peak
16770	27.81	22.91	50.72	68.2	-17.48	peak
22360	26.70	24.03	50.73	54	-3.27	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11180	33.96	14.29	48.25	54	-5.75	peak
16770	31.00	22.91	53.91	68.2	-14.29	peak
22360	29.17	24.03	53.20	54	-0.80	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11340	33.56	14.33	47.89	54	-6.11	peak
17010	29.66	22.96	52.62	68.2	-15.58	peak
22680	28.44	24.34	52.78	54	-1.22	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11340	35.23	14.33	49.56	54	-4.44	peak
17010	28.60	22.96	51.56	68.2	-16.64	peak
22680	26.91	24.34	51.25	54	-2.75	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11060	31.47	14.46	45.93	54	-8.07	peak
16590	26.50	22.82	49.32	68.2	-18.88	peak
22120	27.62	23.90	51.52	54	-2.48	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11060	34.17	14.46	48.63	54	-5.37	peak
16590	29.58	22.82	52.40	68.2	-15.80	peak
22120	26.92	23.90	50.82	54	-3.18	peak

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11220	34.38	14.26	48.64	54	-5.36	peak
16830	30.42	22.94	53.36	68.2	-14.84	peak
22440	28.65	24.09	52.74	54	-1.26	peak

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV	dBuV	dB	
11220	35.51	14.26	49.77	54	-4.23	peak
16830	30.81	22.94	53.75	68.2	-14.45	peak
22440	29.47	24.09	53.56	54	-0.44	peak

Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11490	34.42	14.41	48.83	54	-5.17	peak
17235	27.45	22.57	50.02	68.2	-18.18	peak
22980	28.52	24.45	52.97	54	-1.03	peak

Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11490	34.50	14.41	48.91	54	-5.09	peak
17235	25.38	22.57	47.95	68.2	-20.25	peak
22980	28.95	24.45	53.40	54	-0.60	peak

Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11570	34.02	14.25	48.27	54	-5.73	peak
17355	27.71	21.86	49.57	68.2	-18.63	peak
23140	27.01	24.68	51.69	68.2	-16.51	peak

Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11570	35.12	14.25	49.37	54	-4.63	peak
17355	27.72	21.86	49.58	68.2	-18.62	peak
23140	26.34	24.68	51.02	68.2	-17.18	peak

Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11650	30.46	14.06	44.52	54	-9.48	peak
17475	27.70	21.15	48.85	68.2	-19.35	peak
23300	28.89	25.11	54.00	68.2	-14.20	peak

Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11650	34.78	14.06	48.84	54	-5.16	peak
17475	28.00	21.15	49.15	68.2	-19.05	peak
23300	24.99	25.11	50.10	68.2	-18.10	peak

Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11490	31.25	14.41	45.66	54	-8.34	peak
17235	28.21	22.57	50.78	68.2	-17.42	peak
22980	28.52	24.45	52.97	54	-1.03	peak

Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11490	33.57	14.41	47.98	54	-6.02	peak
17235	29.48	22.57	52.05	68.2	-16.15	peak
22980	29.03	24.45	53.48	54	-0.52	peak

Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11570	32.77	14.25	47.02	54	-6.98	peak
17355	26.14	21.86	48.00	68.2	-20.20	peak
23140	25.52	24.68	50.20	68.2	-18.00	peak

Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11570	32.56	14.25	46.81	54	-7.19	peak
17355	27.05	21.86	48.91	68.2	-19.29	peak
23140	26.61	24.68	51.29	68.2	-16.91	peak

Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11650	33.85	14.06	47.91	54	-6.09	peak
17475	28.59	21.15	49.74	68.2	-18.46	peak
23300	27.39	25.11	52.50	68.2	-15.70	peak

Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11650	35.37	14.06	49.43	54	-4.57	peak
17475	29.73	21.15	50.88	68.2	-17.32	peak
23300	28.60	25.11	53.71	68.2	-14.49	peak

Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11510	32.66	14.40	47.06	54	-6.94	peak
17265	29.62	22.40	52.02	68.2	-16.18	peak
23020	23.18	24.68	47.86	54	-6.14	peak

Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11510	32.44	14.40	46.84	54	-7.16	peak
17265	30.33	22.40	52.73	68.2	-15.47	peak
23020	27.63	24.68	52.31	54	-1.69	peak

Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11590	33.42	14.20	47.62	54	-6.38	peak
17385	29.51	21.68	51.19	68.2	-17.01	peak
23180	27.35	24.72	52.07	68.2	-16.13	peak

Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11590	33.54	14.20	47.74	54	-6.26	peak
17385	26.02	21.68	47.70	68.2	-20.50	peak
23180	27.72	24.72	52.44	68.2	-15.76	peak

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11490	31.49	14.41	45.90	54	-8.10	peak
17235	28.44	22.57	51.01	68.2	-17.19	peak
22980	27.21	24.45	51.66	54	-2.34	peak

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11490	33.45	14.41	47.86	54	-6.14	peak
17235	29.09	22.57	51.66	68.2	-16.54	peak
22980	27.14	24.45	51.59	54	-2.41	peak

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11570	35.82	14.25	50.07	54	-3.93	peak
17355	29.22	21.86	51.08	68.2	-17.12	peak
23140	24.78	24.68	49.46	68.2	-18.74	peak

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11570	35.97	14.25	50.22	54	-3.78	peak
17355	30.58	21.86	52.44	68.2	-15.76	peak
23140	31.85	24.68	56.53	68.2	-11.67	peak



Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11650	31.95	14.06	46.01	54	-7.99	peak
17475	29.87	21.15	51.02	68.2	-17.18	peak
23300	24.48	25.11	49.59	68.2	-18.61	peak

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11650	36.58	14.06	50.64	54	-3.36	peak
17475	29.51	21.15	50.66	68.2	-17.54	peak
23300	25.48	25.11	50.59	68.2	-17.61	peak

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11510	34.42	14.40	48.82	54	-5.18	peak
17265	28.68	22.40	51.08	68.2	-17.12	peak
23020	26.75	24.68	51.43	54	-2.57	peak

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11510	34.34	14.40	48.74	54	-5.26	peak
17265	28.20	22.40	50.60	68.2	-17.60	peak
23020	24.60	24.68	49.28	54	-4.72	peak

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
11590	36.33	14.20	50.53	54	-3.47	peak
17385	28.97	21.68	50.65	68.2	-17.55	peak
23180	26.56	24.72	51.28	68.2	-16.92	peak



Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Over Limit dB	Detector
11590	33.93	14.20	48.13	54	-5.87	peak
17385	27.81	21.68	49.49	68.2	-18.71	peak
23180	27.17	24.72	51.89	68.2	-16.31	peak

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Over Limit dB	Detector
11550	31.80	14.30	46.10	54	-7.90	peak
17325	28.14	22.04	50.18	68.2	-18.02	peak
23100	27.56	24.60	52.16	54	-1.84	peak

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Over Limit dB	Detector
11550	33.68	14.30	47.98	54	-6.02	peak
17325	28.81	22.04	50.85	68.2	-17.35	peak
23100	25.75	24.60	50.35	54	-3.65	peak

7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

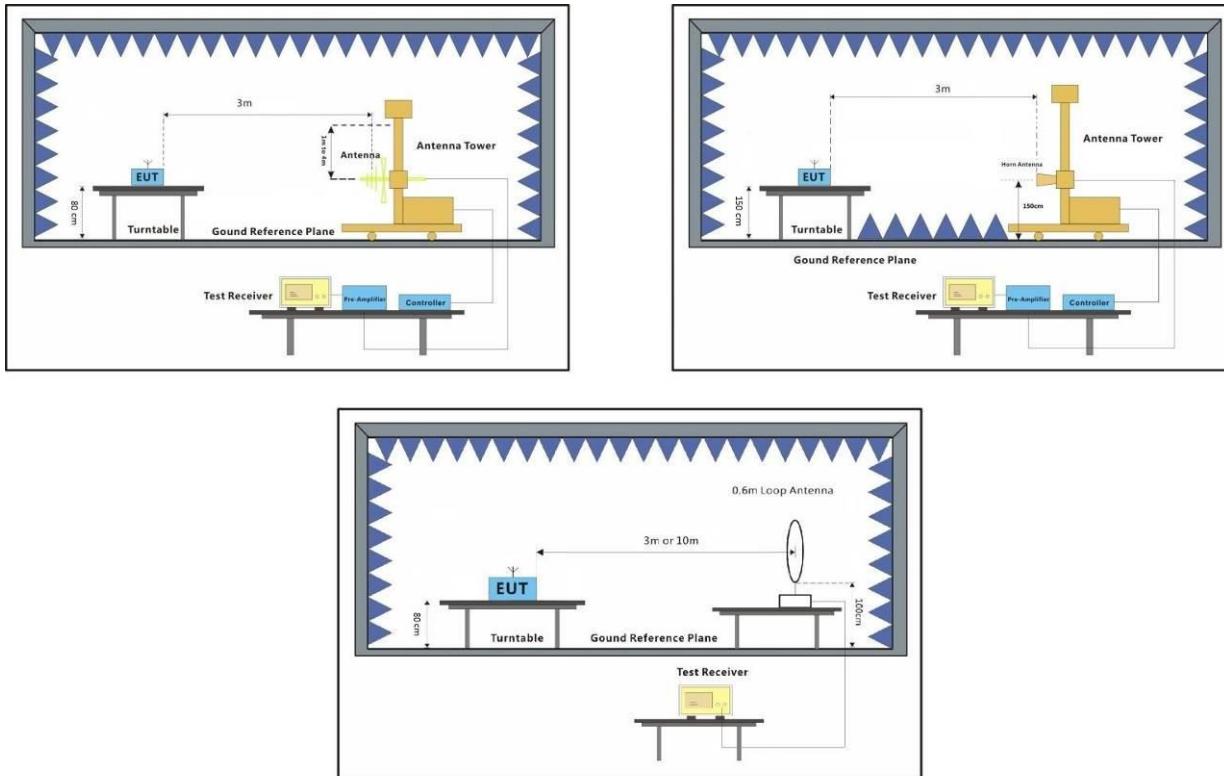
c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE
802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE
802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram

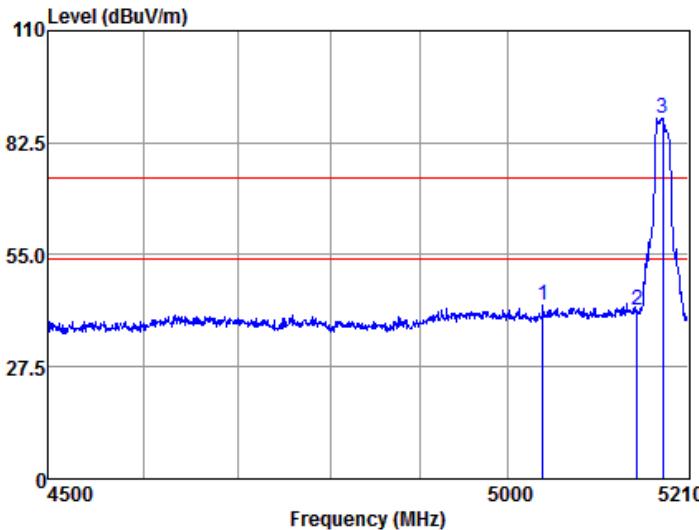


7.8.3 Measurement Procedure and Data

- 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

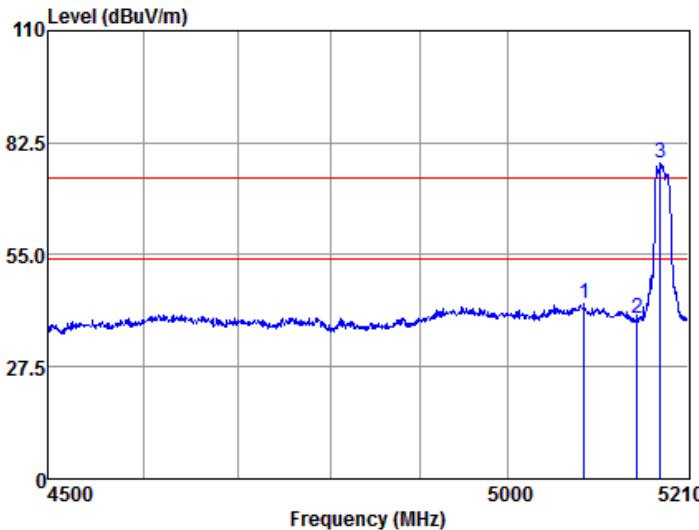
Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5040.32	40.27	31.46	9.63	38.87	42.49	74.00	-31.51	Peak
5150.00	39.38	31.61	9.06	38.81	41.24	74.00	-32.76	Peak
5180.32	86.96	31.65	8.86	38.80	88.67	74.00	14.67	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

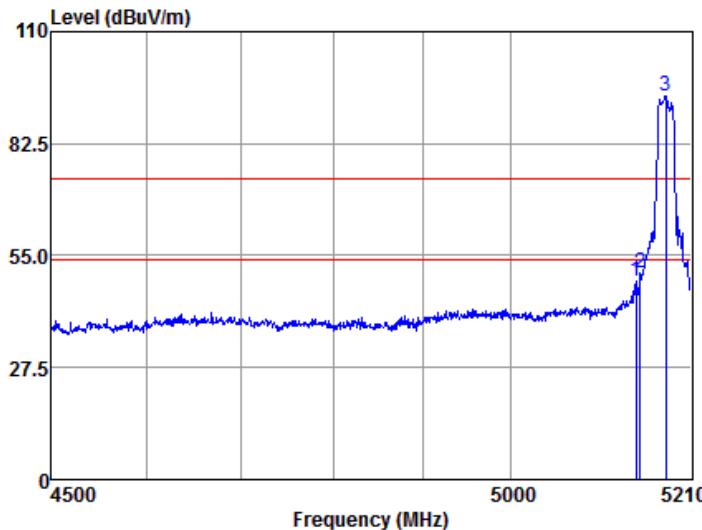
Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5088.55	40.94	31.53	9.44	38.84	43.07	74.00	-30.93	Peak
5150.00	37.38	31.61	9.06	38.81	39.24	74.00	-34.76	Peak
5178.04	75.90	31.65	8.86	38.80	77.61	74.00	3.61	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

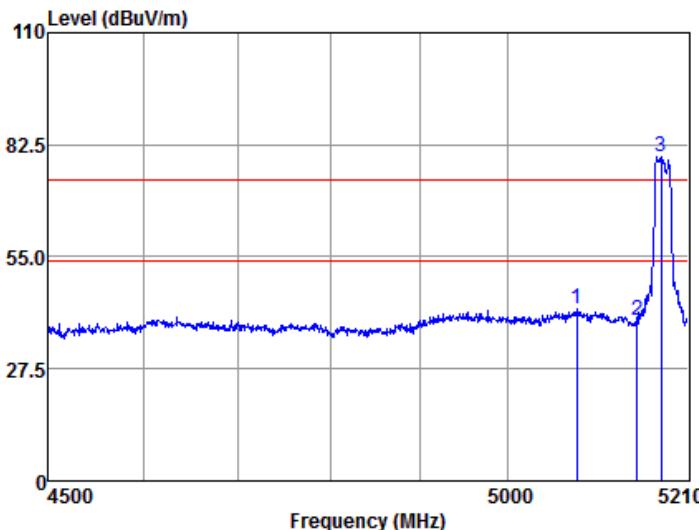
Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5145.52	46.72	31.61	9.06	38.81	48.58	74.00	-25.42	Peak
5150.00	48.85	31.61	9.06	38.81	50.71	74.00	-23.29	Peak
5181.08	92.45	31.65	8.86	38.80	94.16	74.00	20.16	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

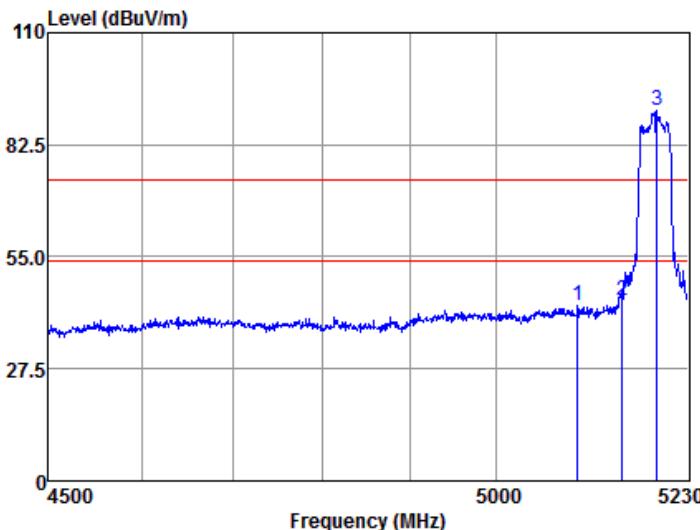
Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5079.61	40.00	31.51	9.44	38.85	42.10	74.00	-31.90	Peak
5150.00	37.59	31.61	9.06	38.81	39.45	74.00	-34.55	Peak
5178.80	77.86	31.65	8.86	38.80	79.57	74.00	5.57	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

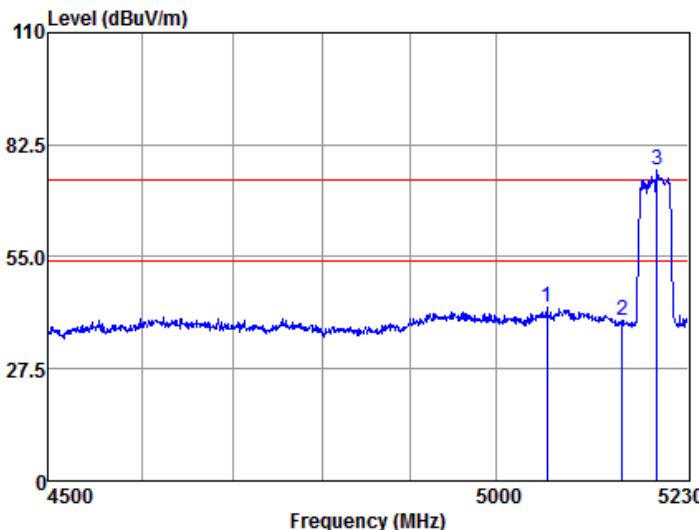
Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5096.50	41.09	31.53	9.26	38.84	43.04	74.00	-30.96	Peak
5150.00	42.48	31.61	9.06	38.81	44.34	74.00	-29.66	Peak
5193.18	89.28	31.68	8.86	38.79	91.03	74.00	17.03	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

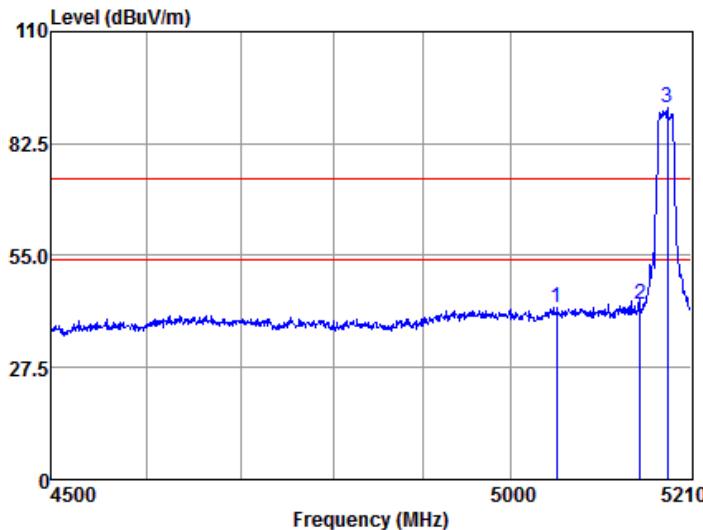
Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5059.86	40.24	31.48	9.63	38.86	42.49	74.00	-31.51	Peak
5150.00	37.58	31.61	9.06	38.81	39.44	74.00	-34.56	Peak
5192.40	74.56	31.68	8.86	38.79	76.31	74.00	2.31	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

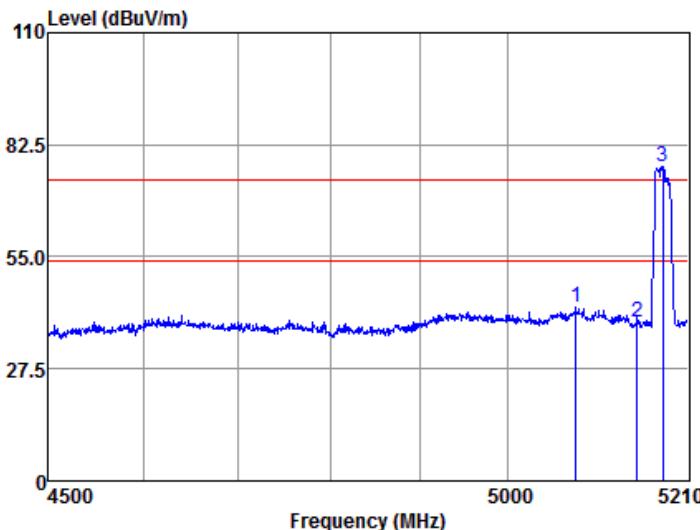
Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5052.89	40.06	31.46	9.63	38.87	42.28	74.00	-31.72	Peak
5150.00	41.13	31.61	9.06	38.81	42.99	74.00	-31.01	Peak
5182.59	89.54	31.65	8.86	38.80	91.25	74.00	17.25	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

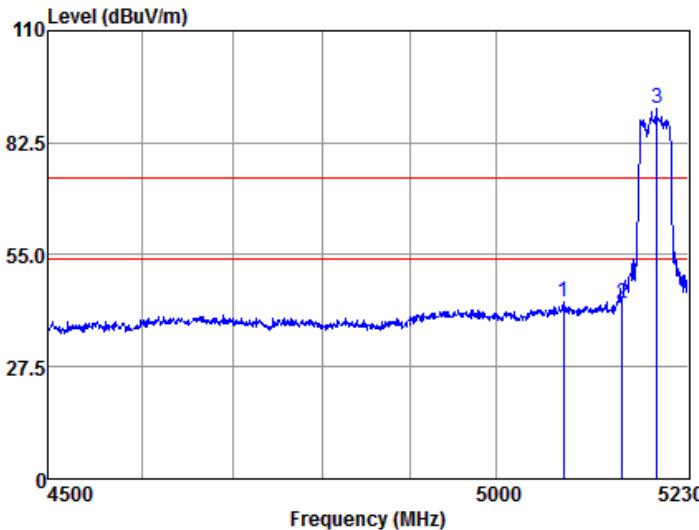
Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5078.87	40.57	31.51	9.44	38.85	42.67	74.00	-31.33	Peak
5150.00	36.97	31.61	9.06	38.81	38.83	74.00	-35.17	Peak
5181.08	75.59	31.65	8.86	38.80	77.30	74.00	3.30	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

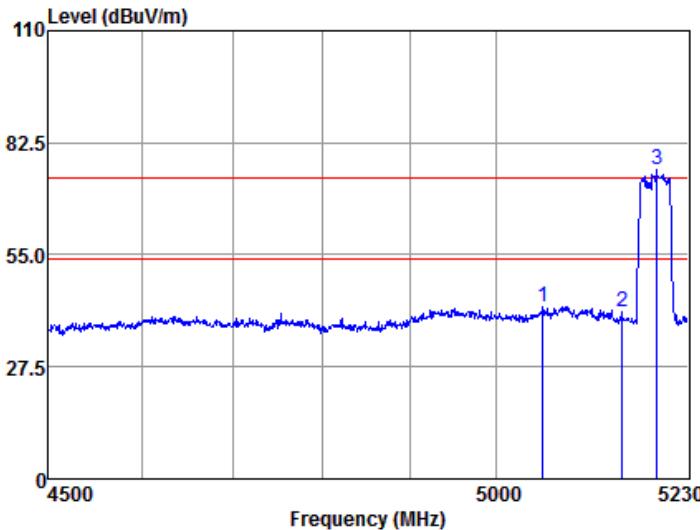


Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5079.67	41.25	31.51	9.44	38.85	43.35	74.00	-30.65	Peak
5150.00	41.11	31.61	9.06	38.81	42.97	74.00	-31.03	Peak
5192.40	89.21	31.68	8.86	38.79	90.96	74.00	16.96	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

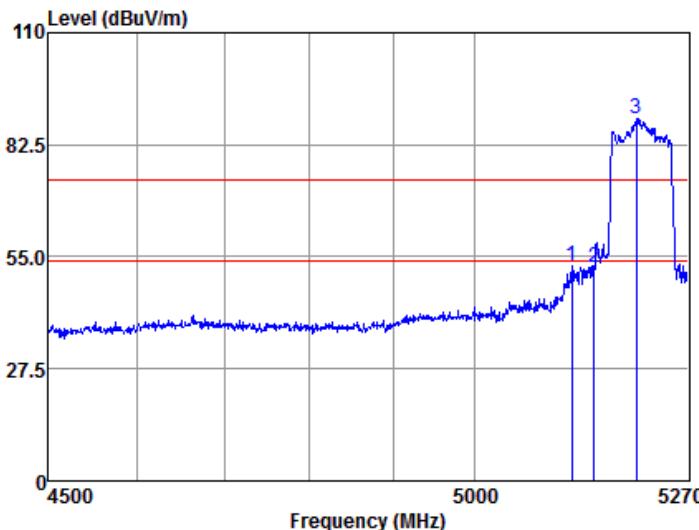
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**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5055.29	40.06	31.48	9.63	38.86	42.31	74.00	-31.69	Peak
5150.00	39.04	31.61	9.06	38.81	40.90	74.00	-33.10	Peak
5192.40	74.03	31.68	8.86	38.79	75.78	74.00	1.78	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

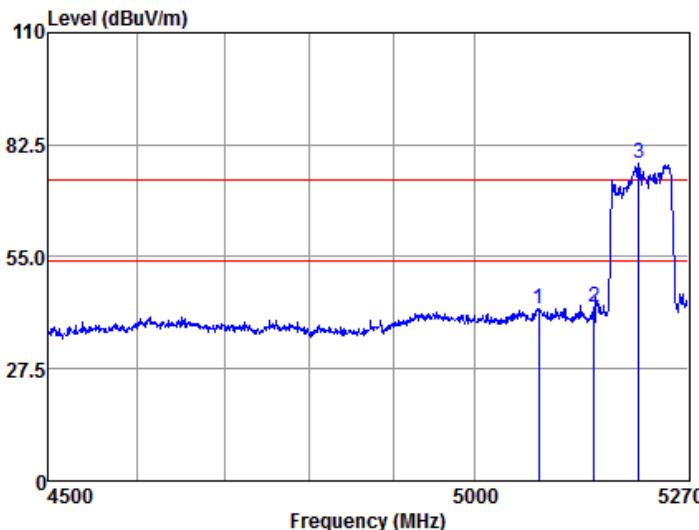
Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5121.47	50.81	31.57	9.26	38.83	52.81	74.00	-21.19	Peak
5150.00	50.38	31.61	9.06	38.81	52.24	74.00	-21.76	Peak
5203.83	87.45	31.70	8.66	38.78	89.03	74.00	15.03	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

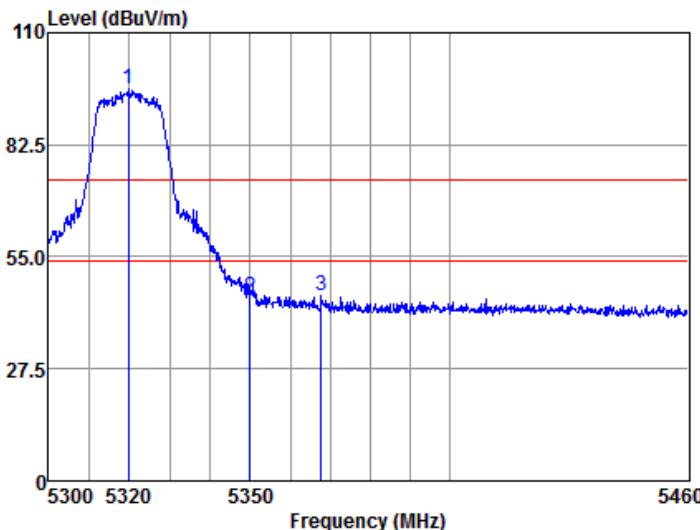
Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5079.57	40.09	31.51	9.44	38.85	42.19	74.00	-31.81	Peak
5150.00	40.70	31.61	9.06	38.81	42.56	74.00	-31.44	Peak
5207.12	76.30	31.70	8.66	38.78	77.88	74.00	3.88	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

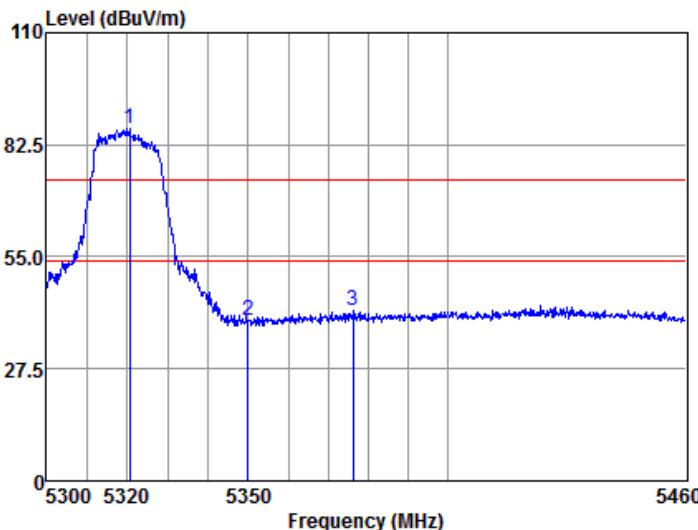
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**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5319.74	94.11	31.85	8.95	38.72	96.19	74.00	22.19	Peak
5350.00	42.66	31.89	9.20	38.70	45.05	74.00	-28.95	Peak
5367.74	42.95	31.91	9.20	38.69	45.37	74.00	-28.63	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

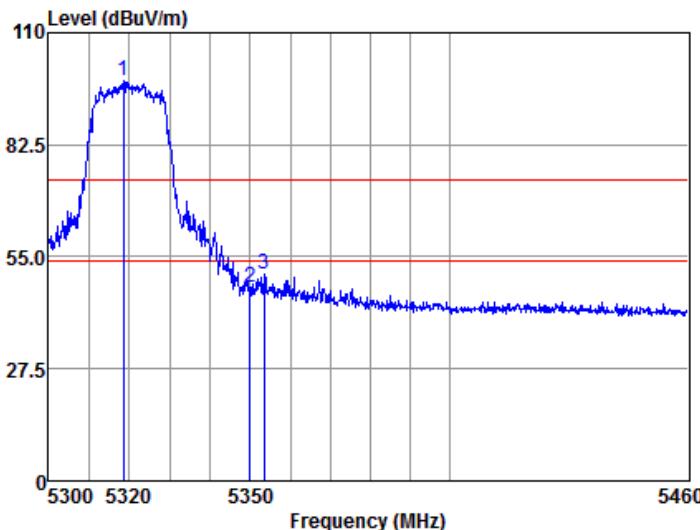
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**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5320.69	84.41	31.85	8.95	38.72	86.49	74.00	12.49	Peak
5350.00	36.90	31.89	9.20	38.70	39.29	74.00	-34.71	Peak
5376.21	39.18	31.93	9.20	38.68	41.63	74.00	-32.37	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

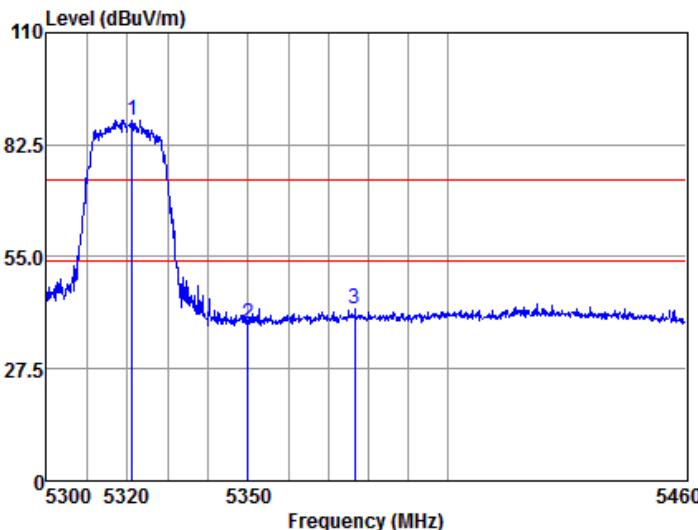
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**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5318.63	96.29	31.85	8.95	38.72	98.37	74.00	24.37	Peak
5350.00	44.96	31.89	9.20	38.70	47.35	74.00	-26.65	Peak
5353.55	48.41	31.89	9.20	38.70	50.80	74.00	-23.20	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

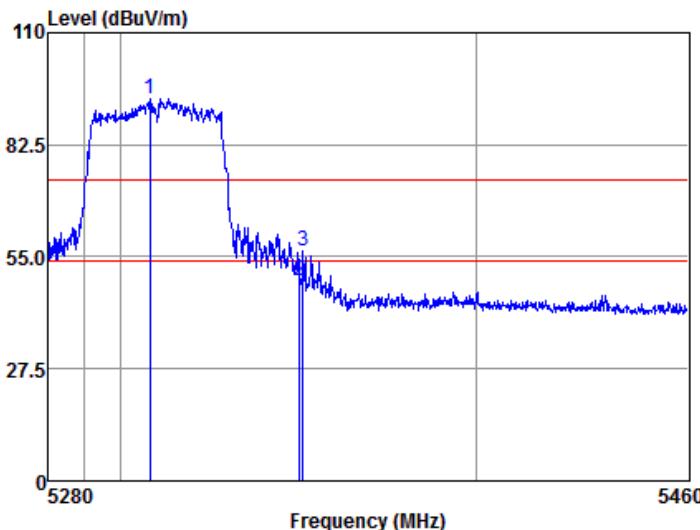
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**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5321.17	86.59	31.85	8.95	38.72	88.67	74.00	14.67	Peak
5350.00	35.97	31.89	9.20	38.70	38.36	74.00	-35.64	Peak
5376.69	39.60	31.93	9.20	38.68	42.05	74.00	-31.95	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

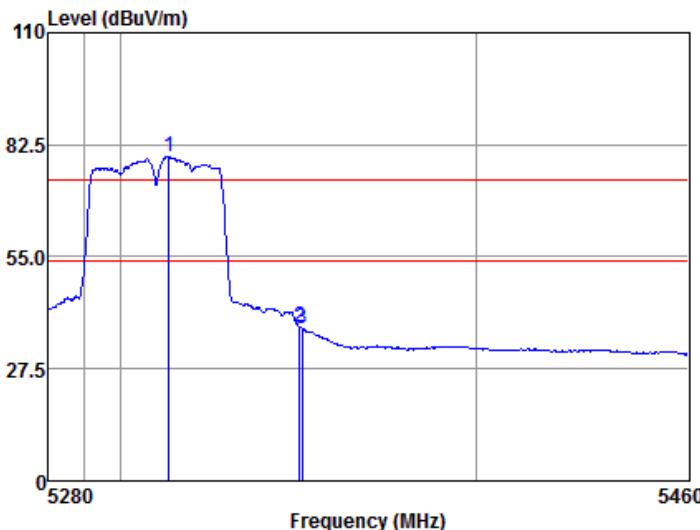
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**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5308.22	91.79	31.85	8.95	38.72	93.87	74.00	19.87	Peak
5350.00	46.78	31.89	9.20	38.70	49.17	74.00	-24.83	Peak
5350.92	54.18	31.89	9.20	38.70	56.57	74.00	-17.43	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

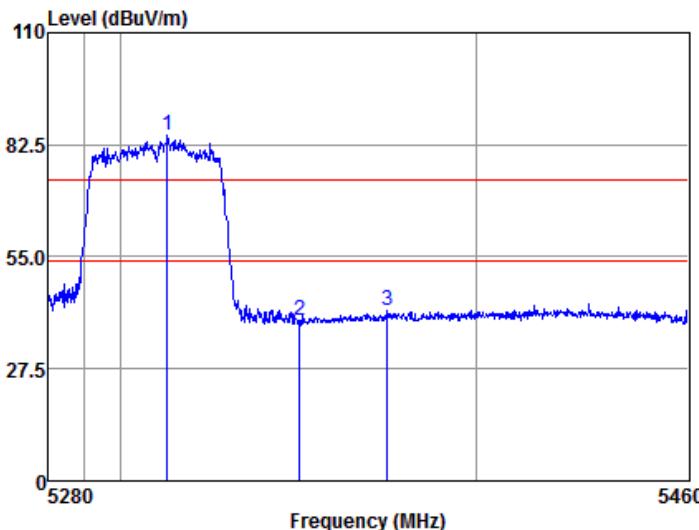
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**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5313.56	77.44	31.85	8.95	38.72	79.52	54.00	25.52	Average
5350.00	35.45	31.89	9.20	38.70	37.84	54.00	-16.16	Average
5350.74	35.02	31.89	9.20	38.70	37.41	54.00	-16.59	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

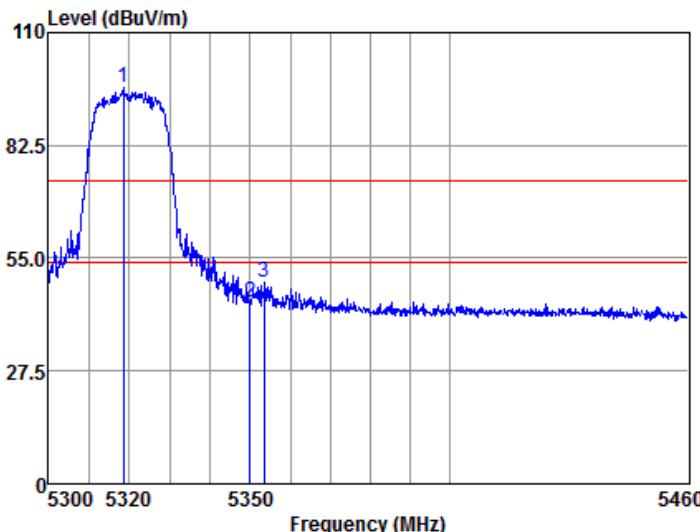
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**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5313.03	82.83	31.85	8.95	38.72	84.91	74.00	10.91	Peak
5350.00	36.97	31.89	9.20	38.70	39.36	74.00	-34.64	Peak
5374.83	39.27	31.93	9.20	38.68	41.72	74.00	-32.28	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

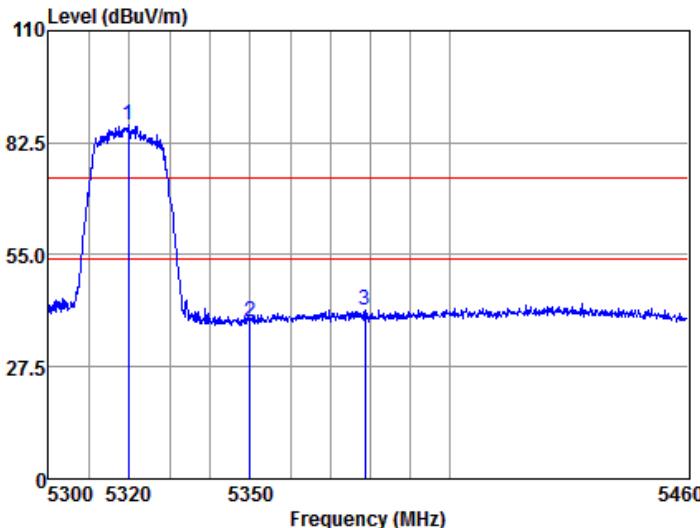
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**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5318.48	94.35	31.85	8.95	38.72	96.43	74.00	22.43	Peak
5350.00	42.01	31.89	9.20	38.70	44.40	74.00	-29.60	Peak
5353.55	46.70	31.89	9.20	38.70	49.09	74.00	-24.91	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

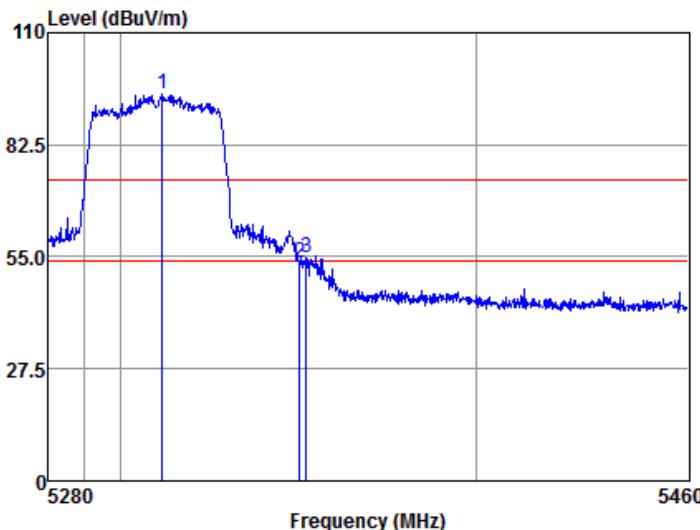
Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5319.74	84.96	31.85	8.95	38.72	87.04	74.00	13.04	Peak
5350.00	36.06	31.89	9.20	38.70	38.45	74.00	-35.55	Peak
5378.61	38.63	31.93	9.44	38.68	41.32	74.00	-32.68	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

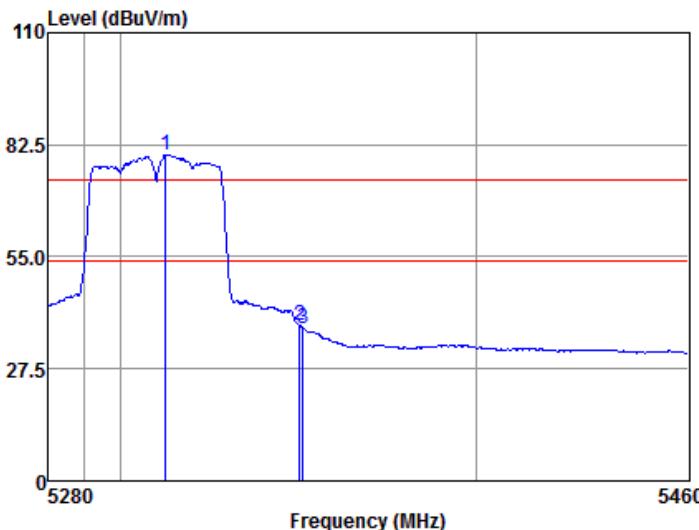
Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5311.60	92.75	31.85	8.95	38.72	94.83	74.00	20.83	Peak
5350.00	51.20	31.89	9.20	38.70	53.59	74.00	-20.41	Peak
5351.99	52.51	31.89	9.20	38.70	54.90	74.00	-19.10	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

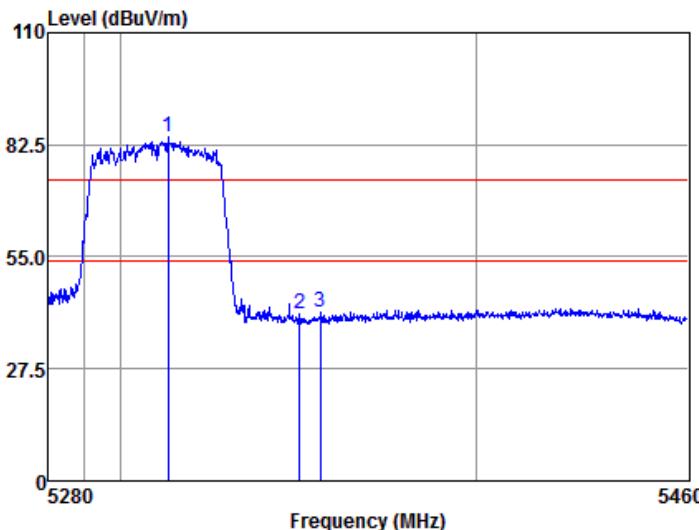
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**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
5312.67	78.05	31.85	8.95	38.72	80.13	54.00	26.13	Average	
5350.00	35.87	31.89	9.20	38.70	38.26	54.00	-15.74	Average	
5350.92	35.10	31.89	9.20	38.70	37.49	54.00	-16.51	Average	

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

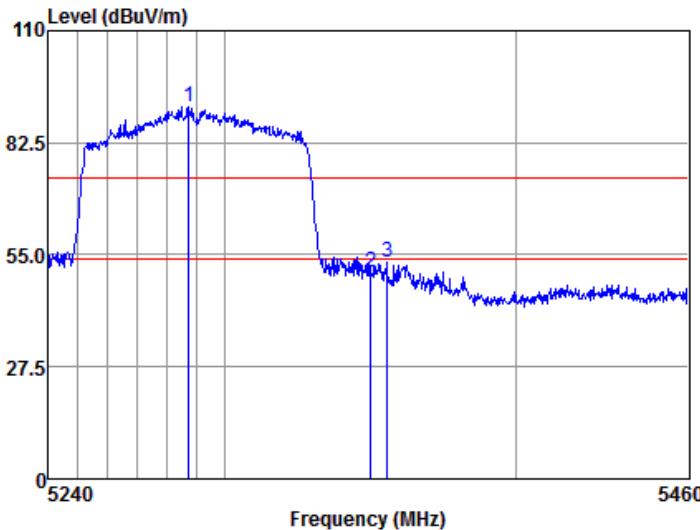
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**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5313.20	82.35	31.85	8.95	38.72	84.43	74.00	10.43	Peak
5350.00	38.62	31.89	9.20	38.70	41.01	74.00	-32.99	Peak
5355.94	39.15	31.91	9.20	38.69	41.57	74.00	-32.43	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

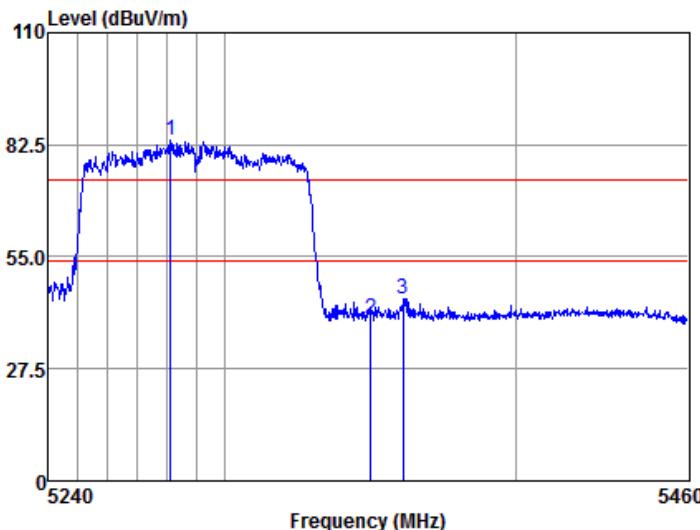
Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5287.63	89.68	31.80	8.71	38.74	91.45	74.00	17.45	Peak
5350.00	48.18	31.89	9.20	38.70	50.57	74.00	-23.43	Peak
5355.47	50.94	31.91	9.20	38.69	53.36	74.00	-20.64	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

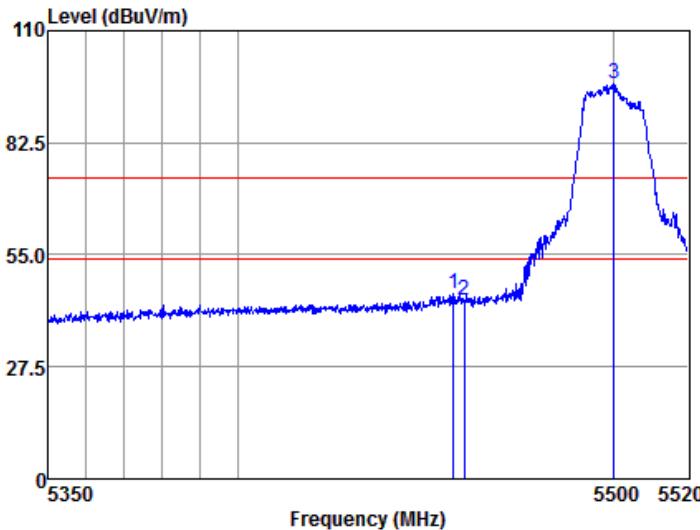
Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5281.32	81.86	31.80	8.71	38.74	83.63	74.00	9.63	Peak
5350.00	37.35	31.89	9.20	38.70	39.74	74.00	-34.26	Peak
5360.98	42.28	31.91	9.20	38.69	44.70	74.00	-29.30	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

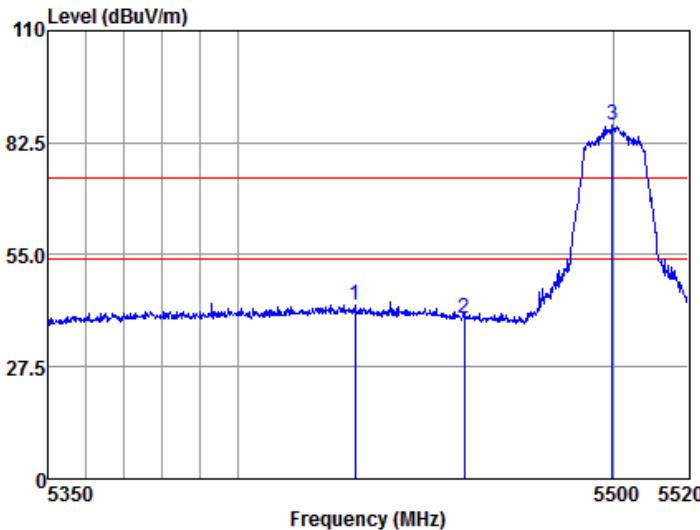
Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5457.16	42.98	32.04	9.23	38.64	45.61	74.00	-28.39	Peak
5460.00	41.01	32.04	9.23	38.64	43.64	74.00	-30.36	Peak
5500.18	94.37	32.10	9.13	38.61	96.99	74.00	22.99	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

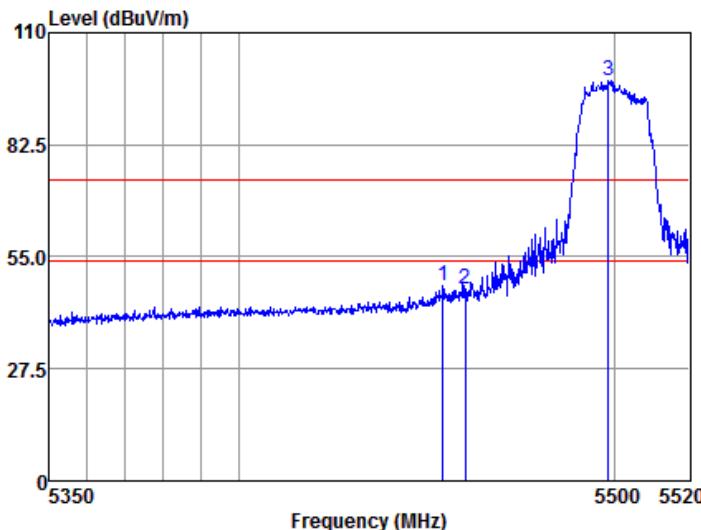


Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5430.94	39.79	31.99	9.34	38.66	42.46	74.00	-31.54	Peak
5460.00	36.64	32.04	9.23	38.64	39.27	74.00	-34.73	Peak
5499.66	84.13	32.10	9.13	38.61	86.75	74.00	12.75	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

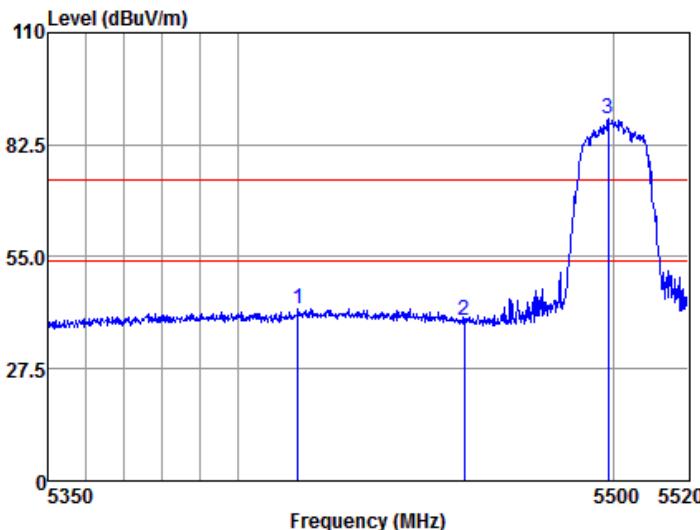
Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5454.09	45.31	32.04	9.23	38.64	47.94	74.00	-26.06	Peak
5460.00	44.39	32.04	9.23	38.64	47.02	74.00	-26.98	Peak
5498.46	95.77	32.10	9.13	38.61	98.39	74.00	24.39	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

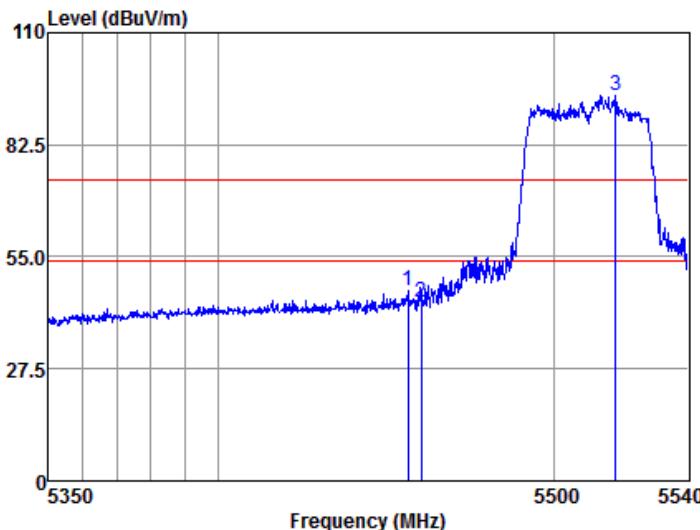
Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5415.67	39.63	31.97	9.34	38.67	42.27	74.00	-31.73	Peak
5460.00	36.79	32.04	9.23	38.64	39.42	74.00	-34.58	Peak
5498.63	86.14	32.10	9.13	38.61	88.76	74.00	14.76	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

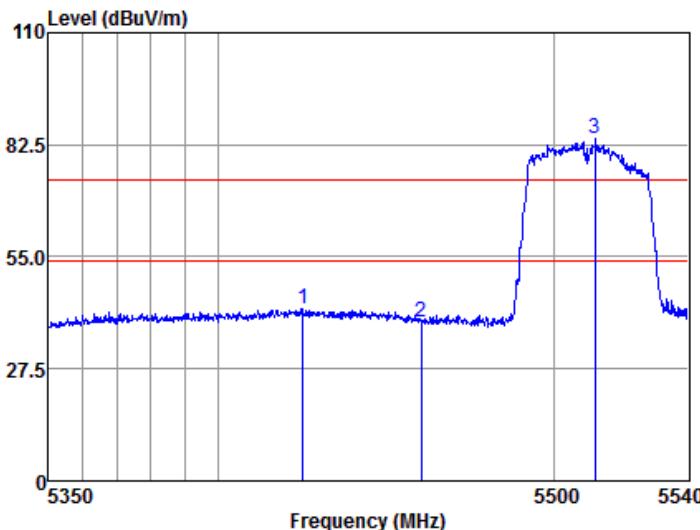
Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5456.15	43.99	32.04	9.23	38.64	46.62	74.00	-27.38	Peak
5460.00	41.32	32.04	9.23	38.64	43.95	74.00	-30.05	Peak
5518.39	92.02	32.10	9.13	38.60	94.65	74.00	20.65	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

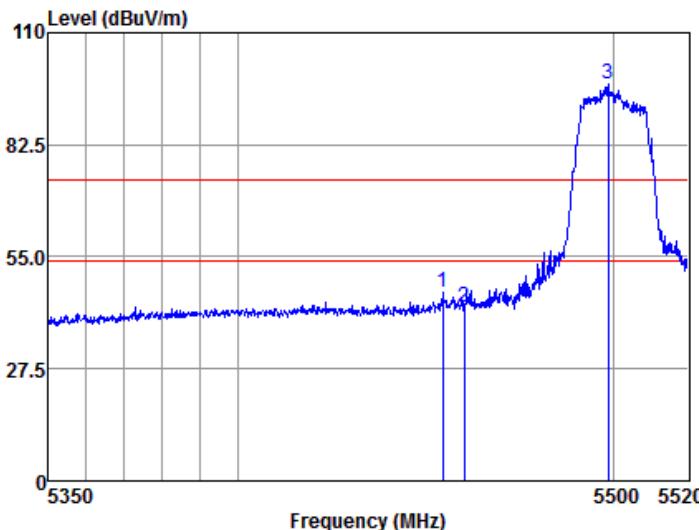
Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5424.83	39.72	31.99	9.34	38.66	42.39	74.00	-31.61	Peak
5460.00	36.42	32.04	9.23	38.64	39.05	74.00	-34.95	Peak
5512.23	81.23	32.10	9.13	38.60	83.86	74.00	9.86	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

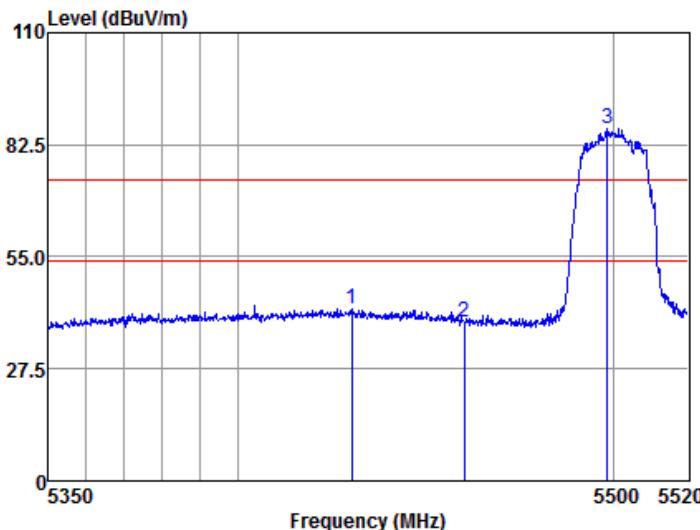
Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5454.26	43.75	32.04	9.23	38.64	46.38	74.00	-27.62	Peak
5460.00	39.85	32.04	9.23	38.64	42.48	74.00	-31.52	Peak
5498.63	94.99	32.10	9.13	38.61	97.61	74.00	23.61	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

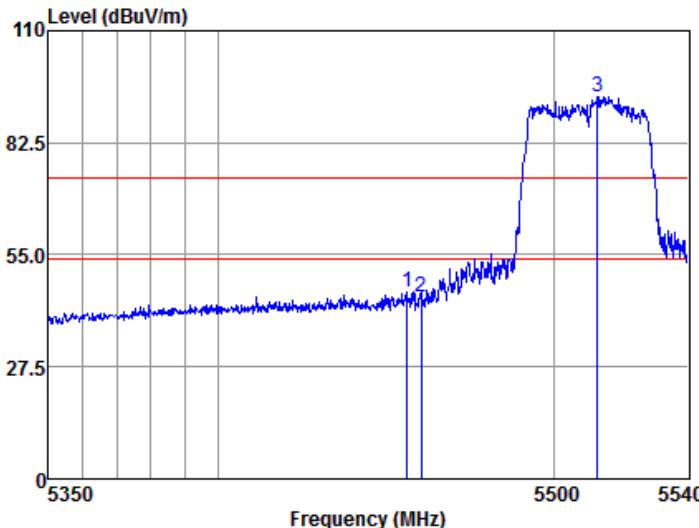
Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5430.09	39.66	31.99	9.34	38.66	42.33	74.00	-31.67	Peak
5460.00	36.45	32.04	9.23	38.64	39.08	74.00	-34.92	Peak
5498.46	83.75	32.10	9.13	38.61	86.37	74.00	12.37	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

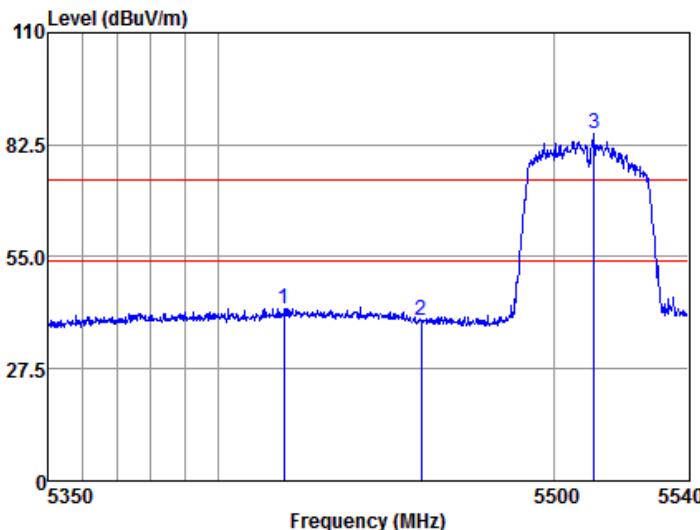
Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5455.77	43.39	32.04	9.23	38.64	46.02	74.00	-27.98	Peak
5460.00	41.95	32.04	9.23	38.64	44.58	74.00	-29.42	Peak
5512.81	91.17	32.10	9.13	38.60	93.80	74.00	19.80	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

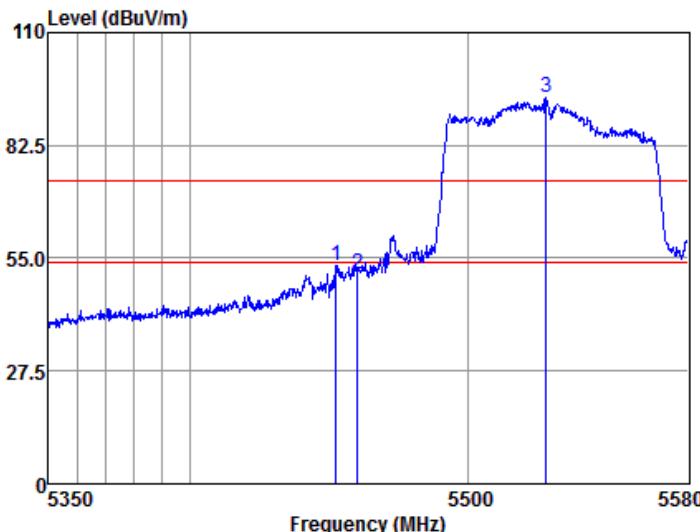
Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5419.34	39.67	31.99	9.34	38.66	42.34	74.00	-31.66	Peak
5460.00	36.85	32.04	9.23	38.64	39.48	74.00	-34.52	Peak
5511.85	82.42	32.10	9.13	38.60	85.05	74.00	11.05	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

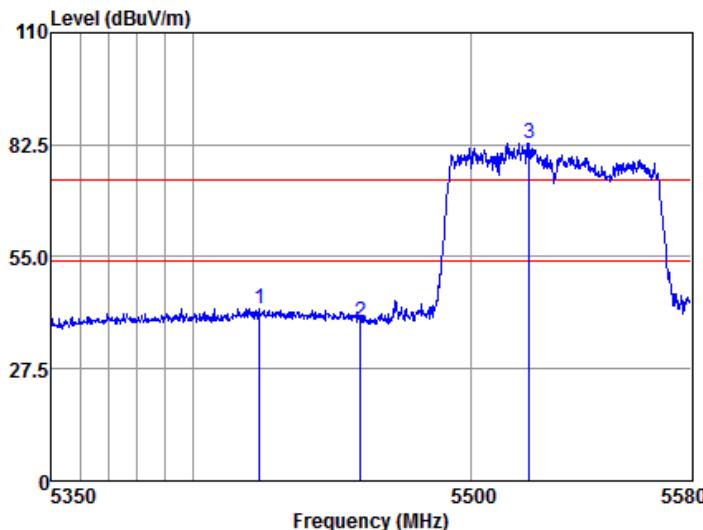
Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5452.30	50.56	32.04	9.23	38.64	53.19	74.00	-20.81	Peak
5460.00	48.46	32.04	9.23	38.64	51.09	74.00	-22.91	Peak
5528.33	91.60	32.11	9.07	38.61	94.17	74.00	20.17	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

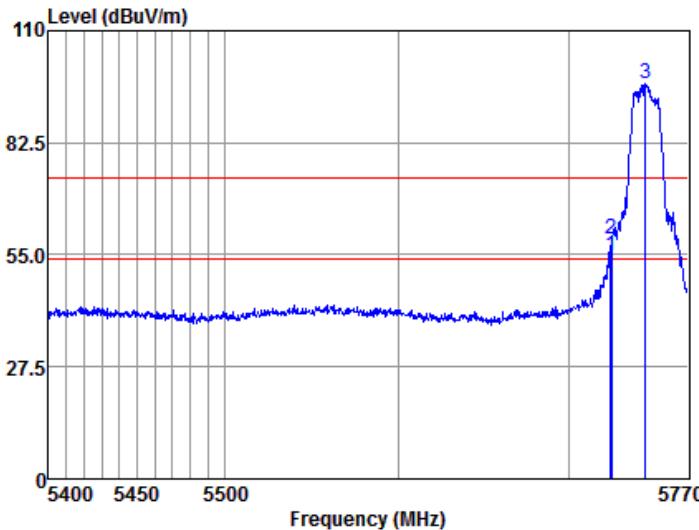
Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5423.92	39.74	31.99	9.34	38.66	42.41	74.00	-31.59	Peak
5460.00	36.22	32.04	9.23	38.64	38.85	74.00	-35.15	Peak
5521.13	80.23	32.10	9.13	38.60	82.86	74.00	8.86	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

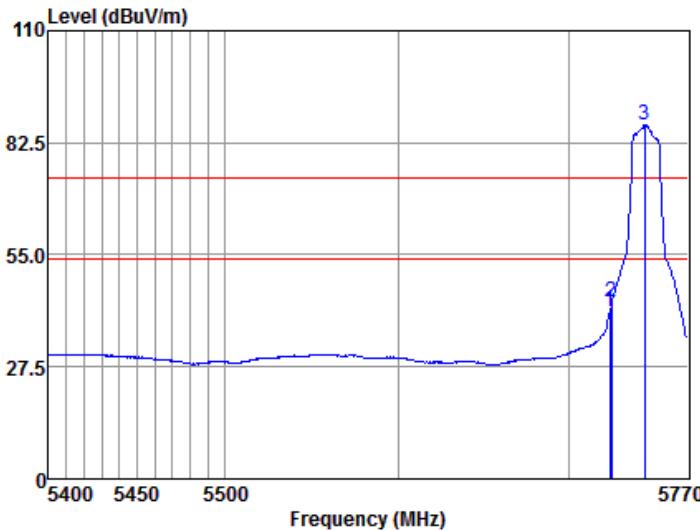
Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5724.29	52.35	32.15	9.00	38.75	54.75	74.00	-19.25	Peak
5725.00	56.29	32.15	9.00	38.75	58.69	74.00	-15.31	Peak
5744.82	94.68	32.15	9.00	38.76	97.07	74.00	23.07	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

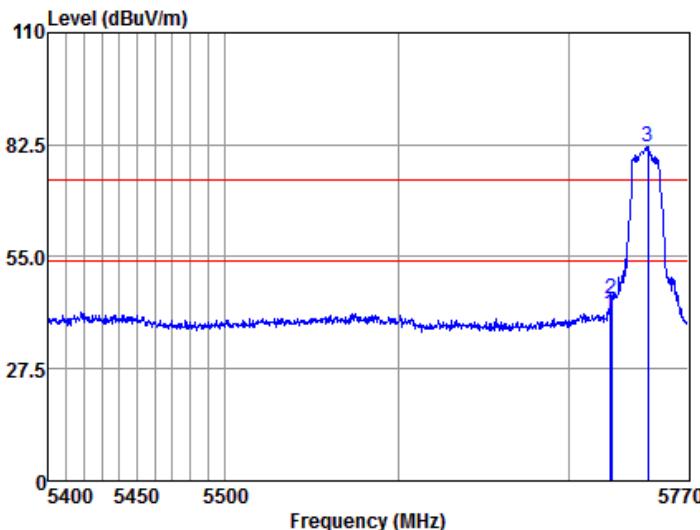
Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5723.92	38.43	32.15	9.00	38.75	40.83	54.00	-13.17	Average
5725.00	41.00	32.15	9.00	38.75	43.40	54.00	-10.60	Average
5744.44	84.52	32.15	9.00	38.76	86.91	54.00	32.91	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

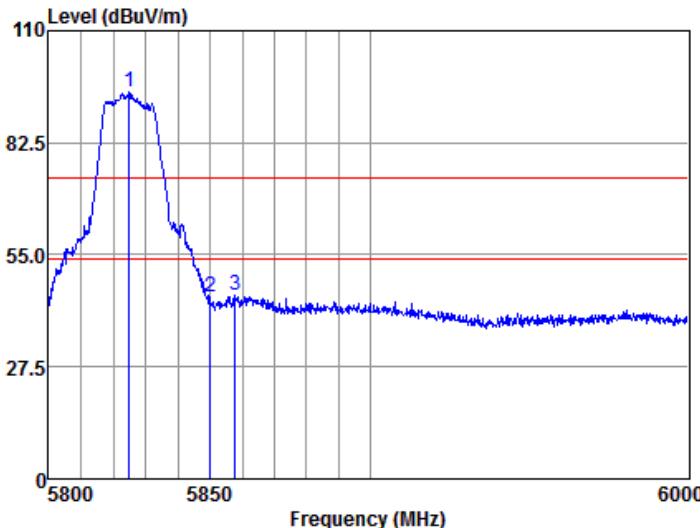
Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5723.92	38.63	32.15	9.00	38.75	41.03	74.00	-32.97	Peak
5725.00	42.12	32.15	9.00	38.75	44.52	74.00	-29.48	Peak
5746.34	79.70	32.15	9.00	38.76	82.09	74.00	8.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

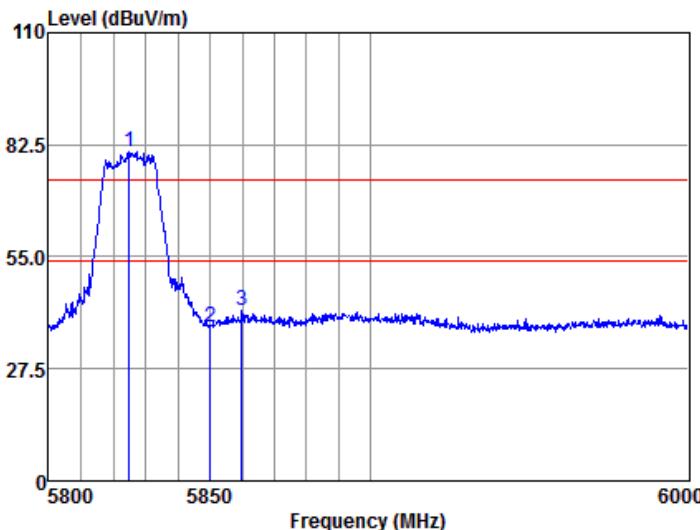
Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5824.83	92.91	32.17	8.87	38.77	95.18	74.00	21.18	Peak
5850.00	42.18	32.17	8.90	38.75	44.50	74.00	-29.50	Peak
5857.70	42.63	32.17	8.90	38.74	44.96	74.00	-29.04	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

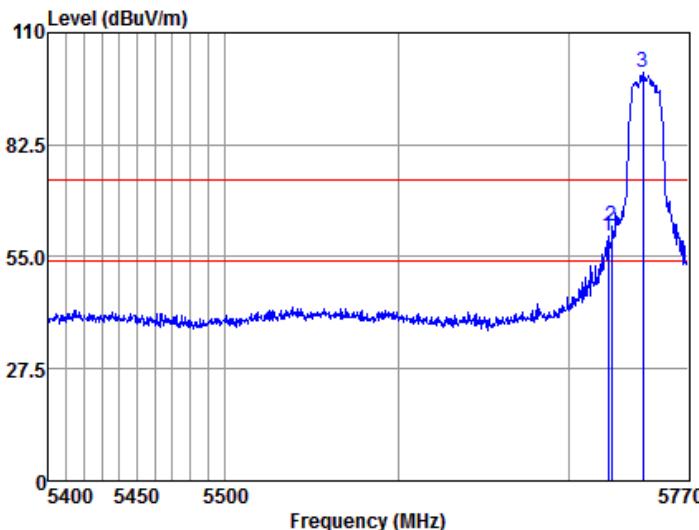
Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
5824.83	78.47	32.17	8.87	38.77	80.74	74.00	6.74	Peak
5850.00	35.60	32.17	8.90	38.75	37.92	74.00	-36.08	Peak
5859.89	39.33	32.17	8.90	38.74	41.66	74.00	-32.34	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

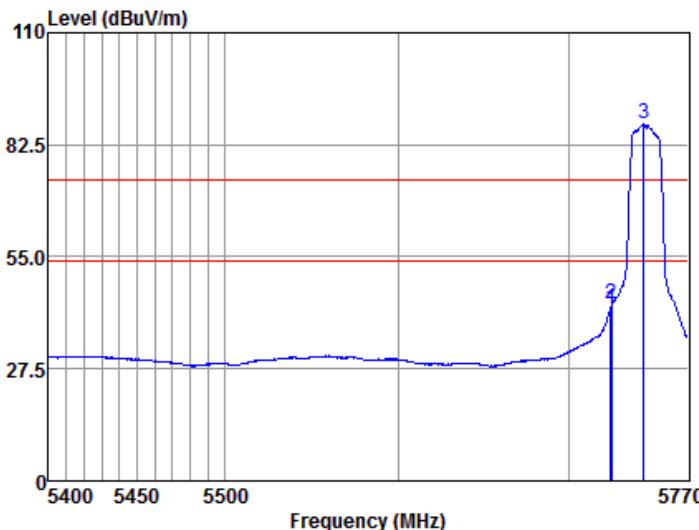
Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5722.78	57.81	32.15	9.00	38.75	60.21	74.00	-13.79	Peak
5725.00	60.02	32.15	9.00	38.75	62.42	74.00	-11.58	Peak
5743.29	97.77	32.15	9.00	38.76	100.16	74.00	26.16	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

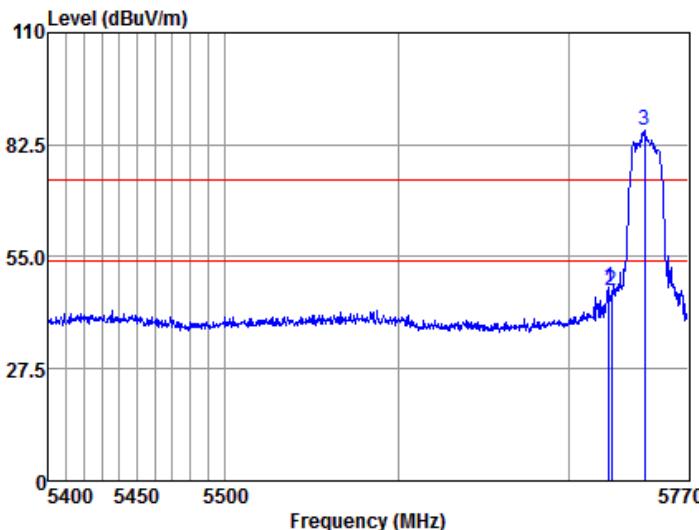
Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5724.29	39.82	32.15	9.00	38.75	42.22	54.00	-11.78	Average
5725.00	41.10	32.15	9.00	38.75	43.50	54.00	-10.50	Average
5744.06	85.39	32.15	9.00	38.76	87.78	54.00	33.78	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

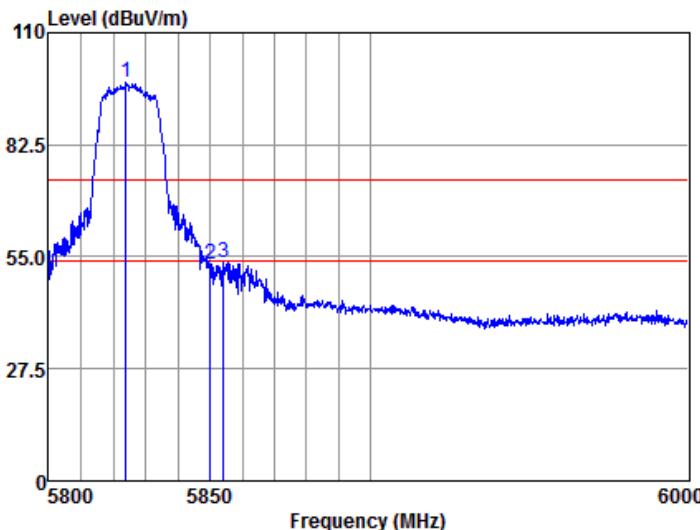
Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5723.16	45.02	32.15	9.00	38.75	47.42	74.00	-26.58	Peak
5725.00	44.09	32.15	9.00	38.75	46.49	74.00	-27.51	Peak
5744.44	83.48	32.15	9.00	38.76	85.87	74.00	11.87	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

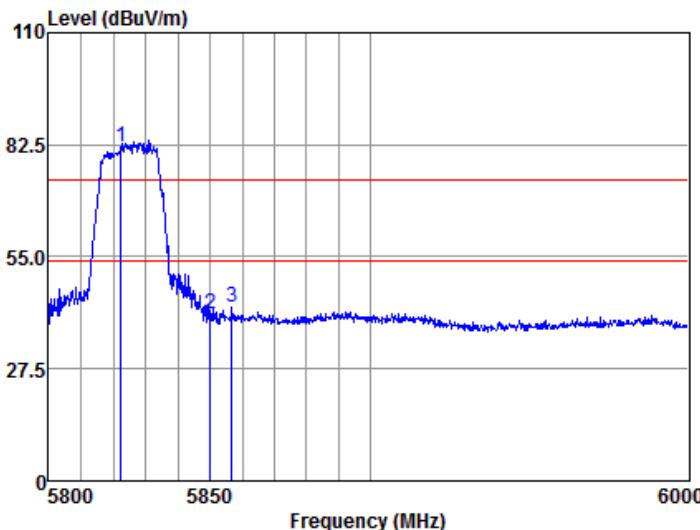
Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5823.84	95.43	32.17	8.87	38.77	97.70	74.00	23.70	Peak
5850.00	50.87	32.17	8.90	38.75	53.19	74.00	-20.81	Peak
5854.13	51.33	32.17	8.90	38.75	53.65	74.00	-20.35	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

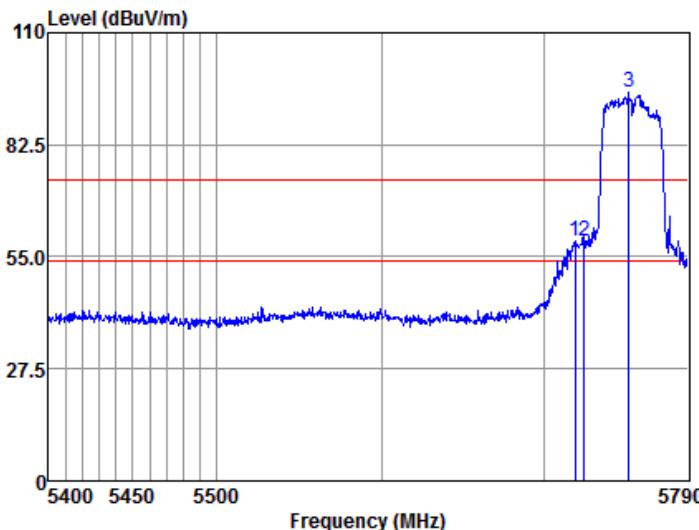
Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5822.26	79.73	32.17	8.87	38.77	82.00	74.00	8.00	Peak
5850.00	38.66	32.17	8.90	38.75	40.98	74.00	-33.02	Peak
5856.71	40.18	32.17	8.90	38.74	42.51	74.00	-31.49	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

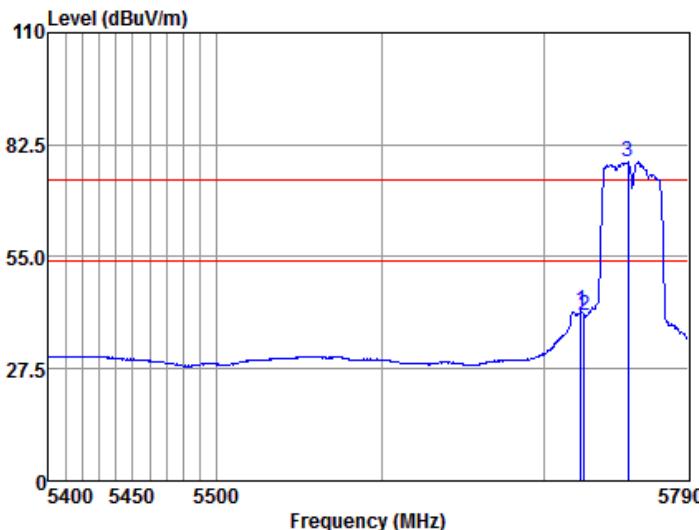
Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5719.37	56.28	32.14	9.00	38.74	58.68	74.00	-15.32	Peak
5725.00	56.57	32.15	9.00	38.75	58.97	74.00	-15.03	Peak
5752.97	93.16	32.15	8.93	38.76	95.48	74.00	21.48	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

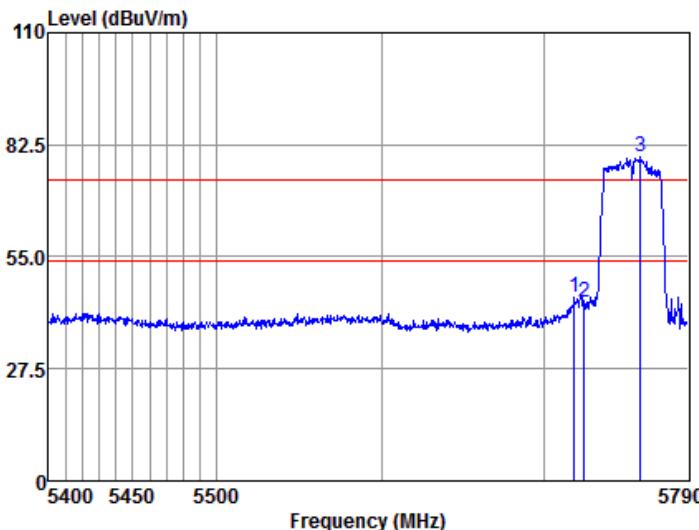
Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5722.96	39.32	32.15	9.00	38.75	41.72	54.00	-12.28	Average
5725.00	38.39	32.15	9.00	38.75	40.79	54.00	-13.21	Average
5752.57	76.02	32.15	8.93	38.76	78.34	54.00	24.34	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

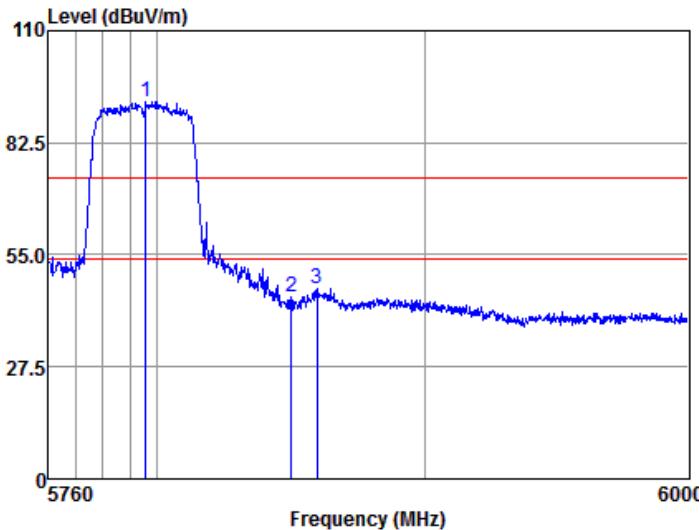
Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5718.98	42.71	32.14	9.00	38.74	45.11	74.00	-28.89	Peak
5725.00	41.57	32.15	9.00	38.75	43.97	74.00	-30.03	Peak
5760.60	77.29	32.15	8.93	38.78	79.59	74.00	5.59	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

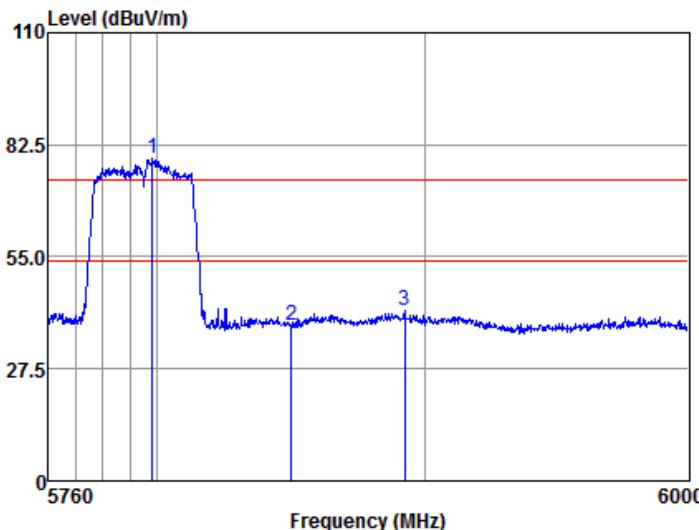
Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5796.09	90.34	32.16	8.87	38.80	92.57	74.00	18.57	Peak
5850.00	42.42	32.17	8.90	38.75	44.74	74.00	-29.26	Peak
5859.85	44.17	32.17	8.90	38.74	46.50	74.00	-27.50	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

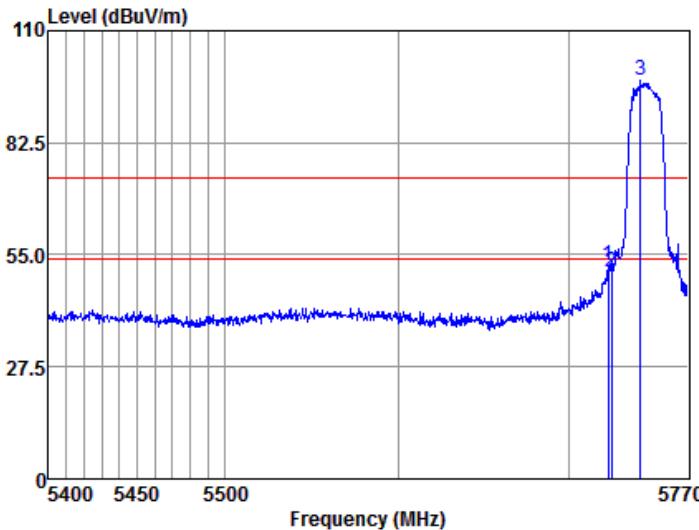
Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5798.46	76.81	32.16	8.87	38.80	79.04	74.00	5.04	Peak
5850.00	35.67	32.17	8.90	38.75	37.99	74.00	-36.01	Peak
5892.47	39.21	32.18	8.93	38.70	41.62	74.00	-32.38	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

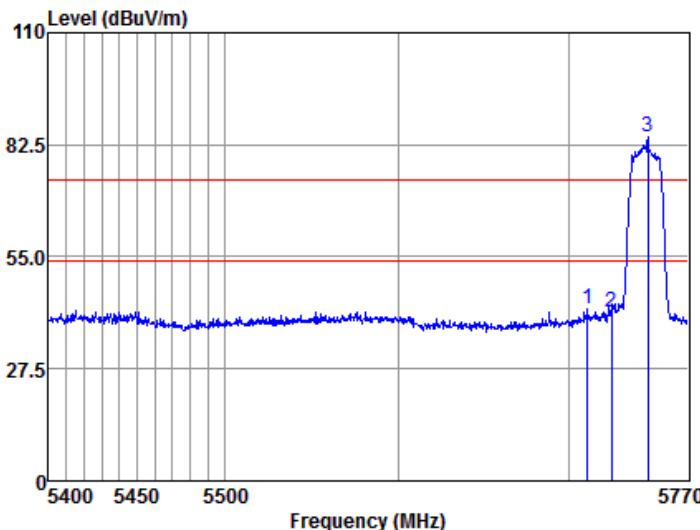
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5722.78	50.05	32.15	9.00	38.75	52.45	74.00	-21.55	Peak
5725.00	48.36	32.15	9.00	38.75	50.76	74.00	-23.24	Peak
5742.15	95.41	32.15	9.00	38.76	97.80	74.00	23.80	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

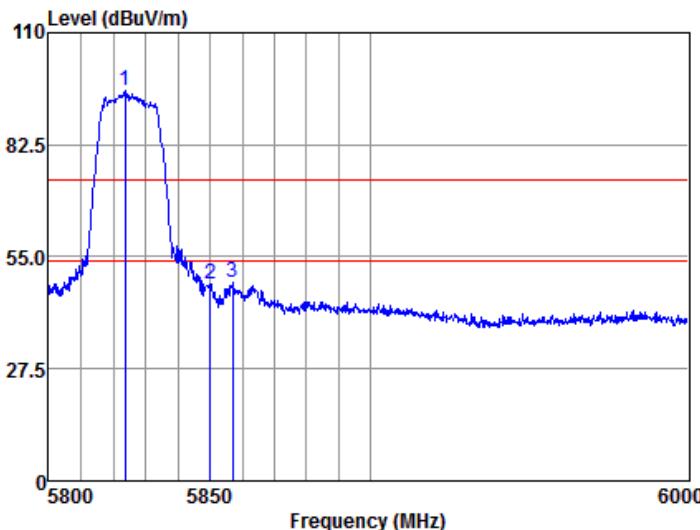
Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5710.65	39.59	32.14	9.06	38.74	42.05	74.00	-31.95	Peak
5725.00	38.83	32.15	9.00	38.75	41.23	74.00	-32.77	Peak
5746.34	81.91	32.15	9.00	38.76	84.30	74.00	10.30	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

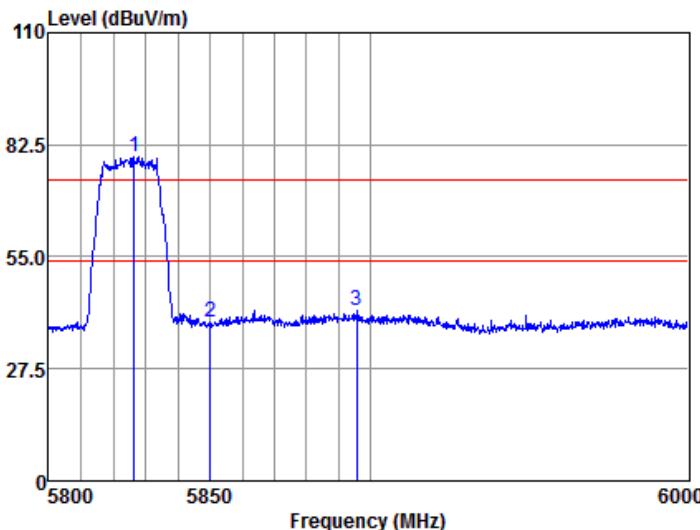
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5823.64	93.66	32.17	8.87	38.77	95.93	74.00	21.93	Peak
5850.00	45.96	32.17	8.90	38.75	48.28	74.00	-25.72	Peak
5856.91	46.20	32.17	8.90	38.74	48.53	74.00	-25.47	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

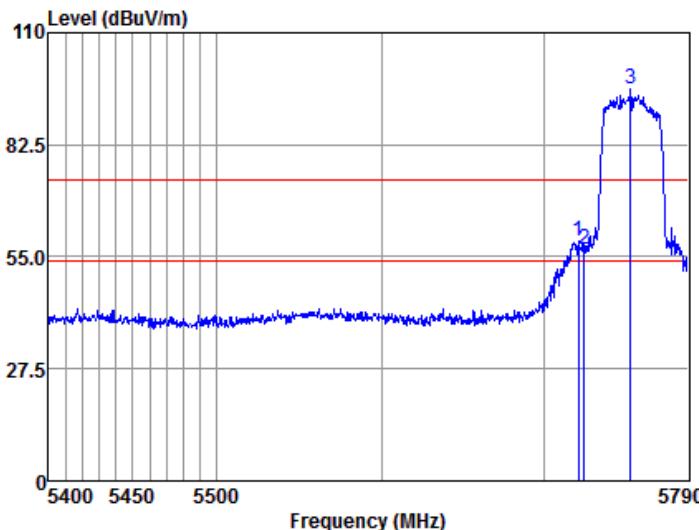
Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5826.41	77.32	32.17	8.87	38.77	79.59	74.00	5.59	Peak
5850.00	36.56	32.17	8.90	38.75	38.88	74.00	-35.12	Peak
5895.55	39.41	32.18	8.93	38.70	41.82	74.00	-32.18	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

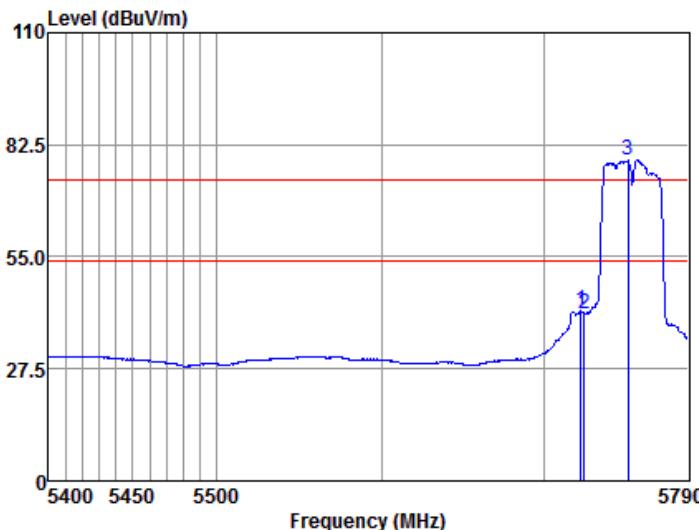
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5721.37	56.59	32.14	9.00	38.74	58.99	74.00	-15.01	Peak
5725.00	54.38	32.15	9.00	38.75	56.78	74.00	-17.22	Peak
5754.18	93.78	32.15	8.93	38.76	96.10	74.00	22.10	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

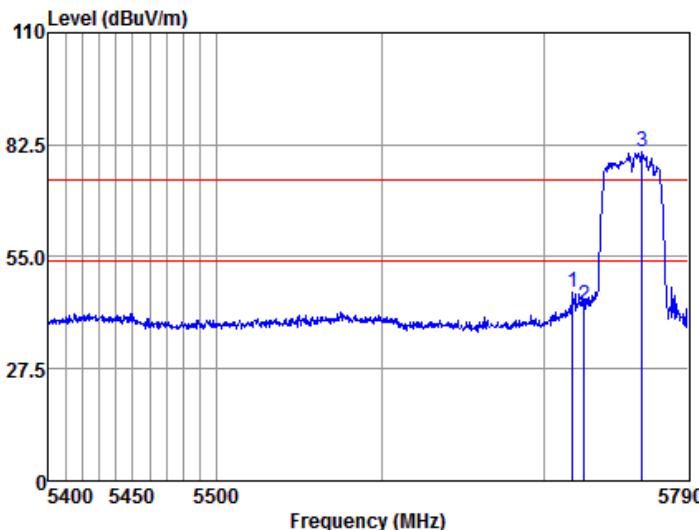
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5722.96	39.55	32.15	9.00	38.75	41.95	54.00	-12.05	Average
5725.00	38.75	32.15	9.00	38.75	41.15	54.00	-12.85	Average
5752.57	76.48	32.15	8.93	38.76	78.80	54.00	24.80	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

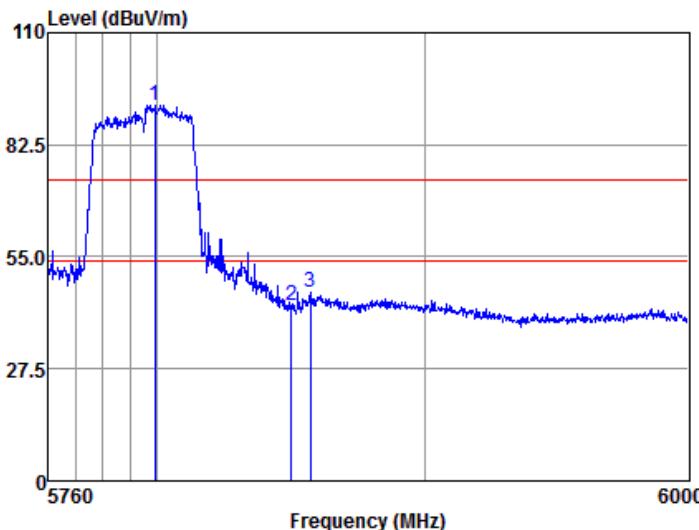
Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5717.78	43.76	32.14	9.00	38.74	46.16	74.00	-27.84	Peak
5725.00	40.68	32.15	9.00	38.75	43.08	74.00	-30.92	Peak
5761.40	78.40	32.15	8.93	38.78	80.70	74.00	6.70	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

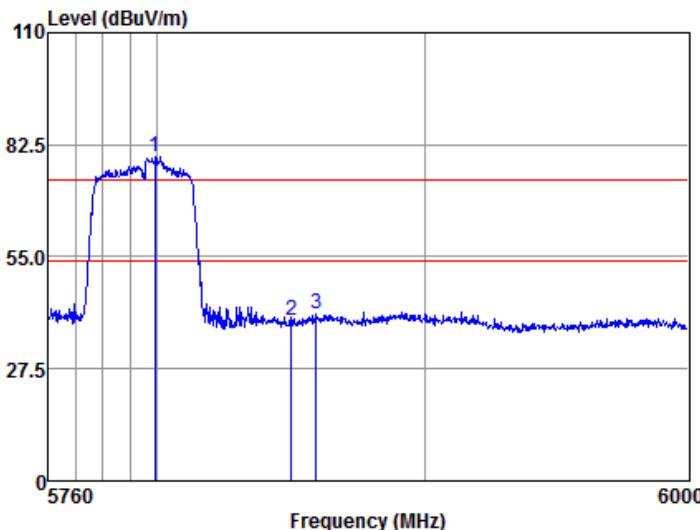
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
5799.17	90.06	32.16	8.87	38.80	92.29	74.00	18.29	Peak
5850.00	40.70	32.17	8.90	38.75	43.02	74.00	-30.98	Peak
5857.22	43.74	32.17	8.90	38.74	46.07	74.00	-27.93	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

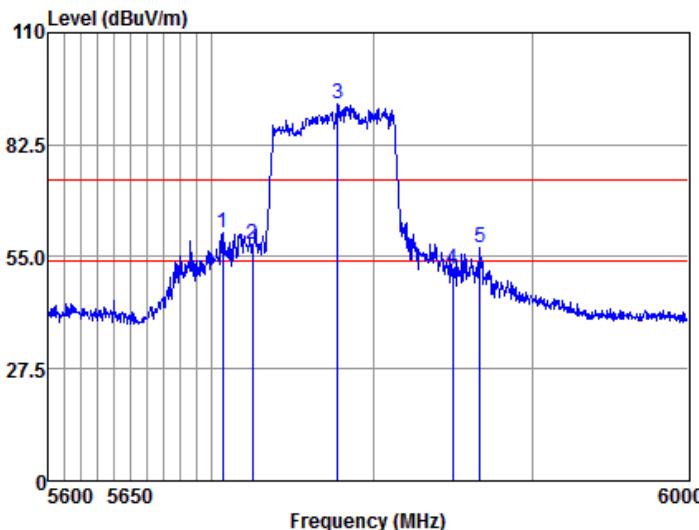
Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5799.40	77.27	32.16	8.87	38.80	79.50	74.00	5.50	Peak
5850.00	37.13	32.17	8.90	38.75	39.45	74.00	-34.55	Peak
5859.37	38.53	32.17	8.90	38.74	40.86	74.00	-33.14	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

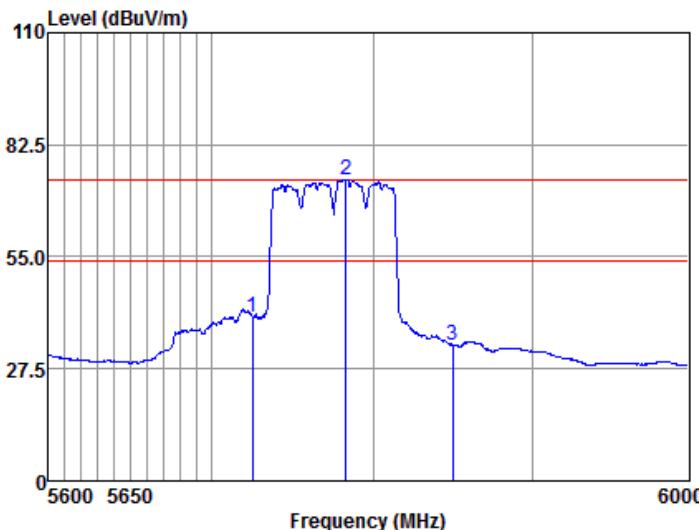
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5706.48	58.63	32.14	9.06	38.74	61.09	74.00	-12.91	Peak
5725.00	55.69	32.15	9.00	38.75	58.09	74.00	-15.91	Peak
5777.79	90.18	32.16	8.93	38.79	92.48	74.00	18.48	Peak
5850.00	49.77	32.17	8.90	38.75	52.09	74.00	-21.91	Peak
5867.37	54.74	32.17	8.90	38.74	57.07	74.00	-16.93	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

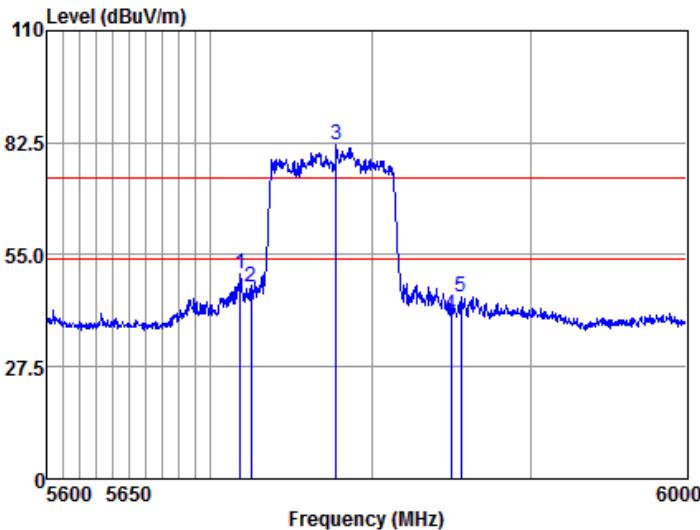
Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5725.00	37.75	32.15	9.00	38.75	40.15	54.00	-13.85	Average
5782.97	71.74	32.16	8.93	38.79	74.04	54.00	20.04	Average
5850.00	30.84	32.17	8.90	38.75	33.16	54.00	-20.84	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5717.91	48.01	32.14	9.00	38.74	50.41	74.00	-23.59	Peak
5725.00	44.62	32.15	9.00	38.75	47.02	74.00	-26.98	Peak
5777.79	79.54	32.16	8.93	38.79	81.84	74.00	7.84	Peak
5850.00	37.83	32.17	8.90	38.75	40.15	74.00	-33.85	Peak
5856.04	42.40	32.17	8.90	38.74	44.73	74.00	-29.27	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)
Test Method: ANSI C63.10 (2013) Section 6.8
Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

7.9.1 E.U.T. Operation

Operating Environment:

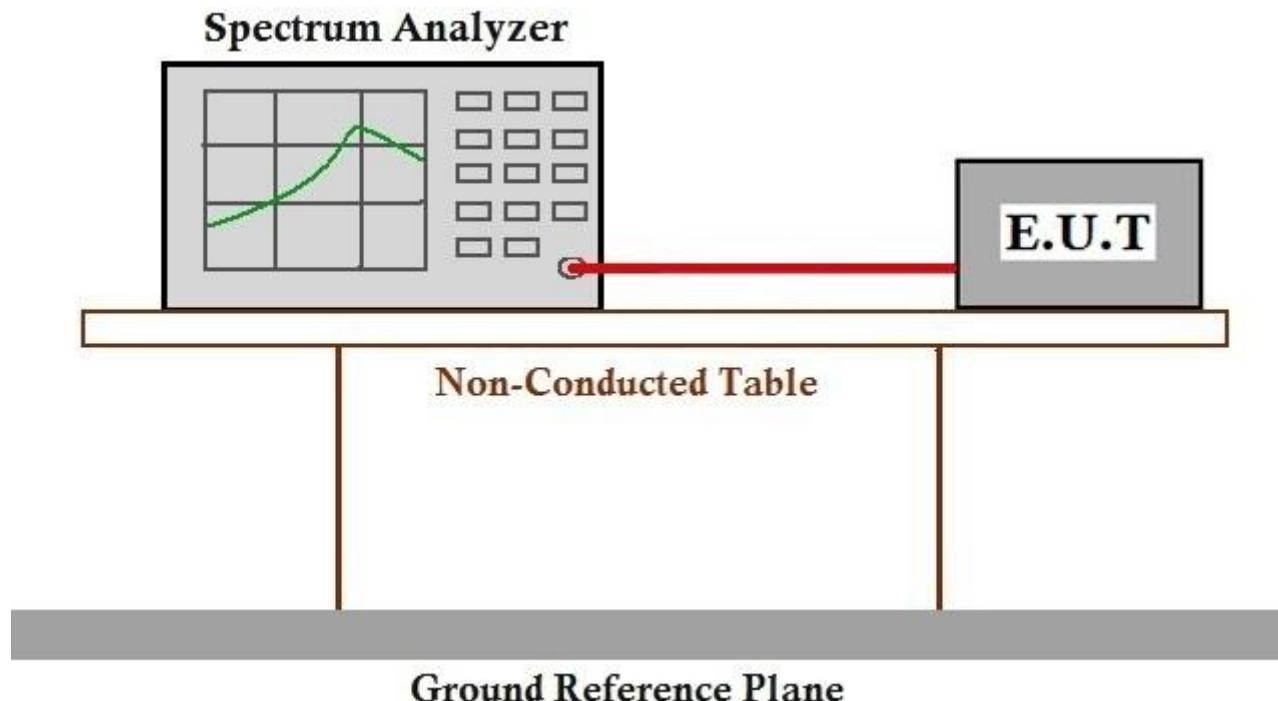
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.9.2 Test Setup Diagram**7.9.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEMA180900784502

7.10 99% Bandwidth

Test Requirement RSS-Gen Section 6.6
Test Method: ANSI C63.10 Section 6.9.3

7.10.1 E.U.T. Operation

Operating Environment:

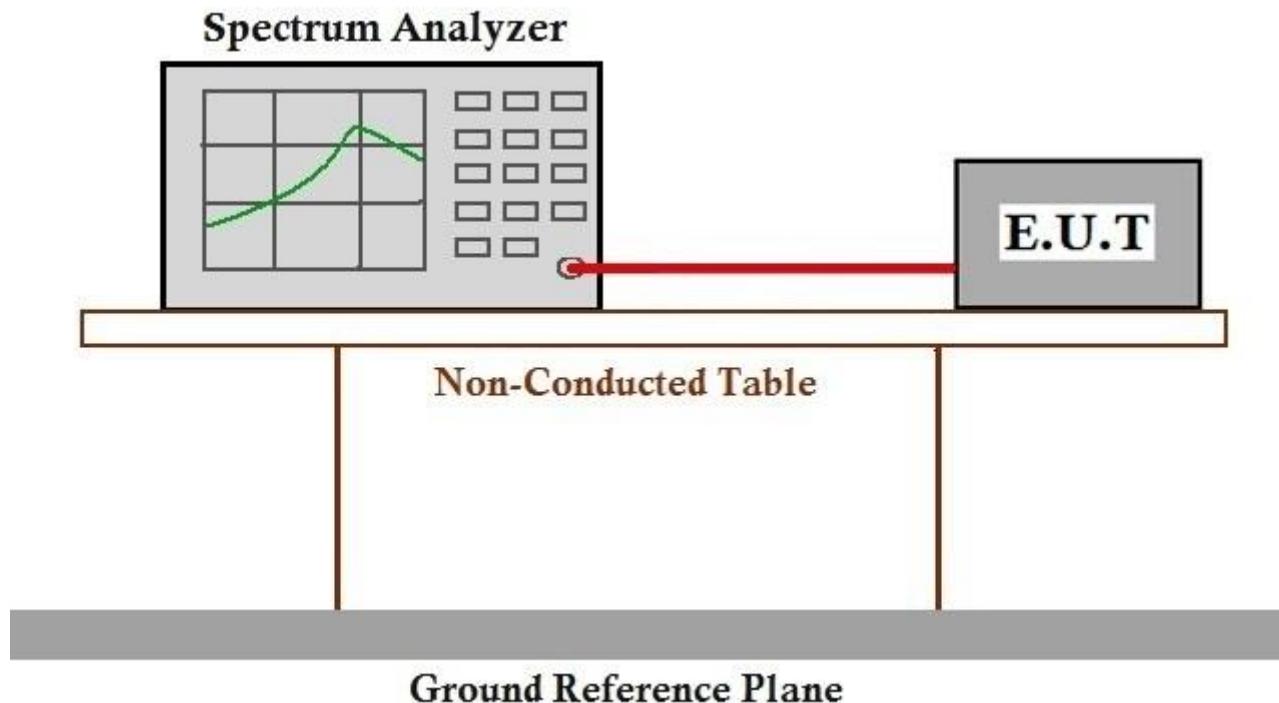
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.10.2 Test Setup Diagram**7.10.3 Measurement Procedure and Data**

The detailed test data see: Appendix B for SHEMA180900784502



8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -