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

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TEST REPORT

Application No.:	SZEM1707007162CR
Applicant:	SAGEMCOM BROADBAND SAS
Address of Applicant:	250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Manufacturer:	SAGEMCOM BROADBAND SAS
Address of Manufacturer:	250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Equipment Under Test (EUT):	
EUT Name:	Wireless Home Router
Model No.:	FAST5280
Trade mark:	SAGEMCOM
FCC ID:	VW3FAST5280
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2017-07-10
Date of Test:	2017-07-11 to 2017-08-15
Date of Issue:	2017-08-29
Test Result:	**Pass***

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

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Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2017-08-29		Original

Authorized for issue by:				
				
		Hank Yan /Project Engineer		
				
		Eric Fu /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 E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	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 E 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 E 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 E 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 E 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 E 15.407 (g)	Pass

N/A: Not applicable

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	Adaptor 1: Model: MSA-C2500IS12.0-30D-US Input: AC 100-120V, 50/60Hz, 1.0A max Output: DC 12.0V, 2.5A Adaptor 2: Model: LPL-D030120250ZL Input: AC 100-120V, 50/60Hz, 0.8A Max Output: DC 12V, 2.5A Adaptor 3: Model: NBS30E120250VU Input: AC 100-120V, 60Hz, 0.9A Output: DC 12V, 2.5A			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	IEEE 802.11a/n(HT20)/ac(HT20)	5180-5240	4
		IEEE 802.11n(HT40)/ac(HT40)	5190-5230	2
		IEEE 802.11ac(HT80)	5210	1
	UNII Band III	IEEE 802.11a/n(HT20)/ac(HT20)	5745-5825	5
		IEEE 802.11n(HT40)/ac(HT40)	5755-5795	2
		IEEE 802.11ac(HT80)	5775	1
Modulation Type:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Sample Type:	Mobile device			
Antenna Type:	ANT2: PIFA; ANT3: Dipole; ANT4: Dipole; ANT5: Dipole			
Antenna Gain:	ANT2: 4.9dBi; ANT3: 4.05dBi; ANT4: 3.65dBi; ANT5:3.84dBi			

4.2 Description of Support Units

The EUT has been tested as an independent unit.

Channel list for 802.11a/n(HT20)/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
165	5825MHz						

Channel list for 802.11n(HT40)/ac(HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz	151	5755MHz	159	5795MHz

Channel list for 802.11ac(HT80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	155	5775MHz				

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 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 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 III	One channel (CH155)	5775MHz

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
9	Temperature test	1℃
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%

4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

4.5 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2016-09-28	2017-09-28
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2016-09-28	2017-09-28
2 Line ISN	Fischer Custom	FCC-TLISN-T2-02	EMC0122	2016-09-28	2017-09-28

99% Bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

26dB Emission bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09

Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

Maximum Conducted output power					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

Peak Power spectrum density					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

Radiated Emissions which fall in the restricted bands					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna(15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09

Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter	N/A	N/A	SEM023-01	N/A	N/A

Frequency Stability					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18

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 Requirment:

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

ANT2: 4.9dBi; ANT3: 4.05dBi; ANT4: 3.65dBi; ANT5:3.84dBi

For MIMO, the Product supports CDD and Beamforming mode.

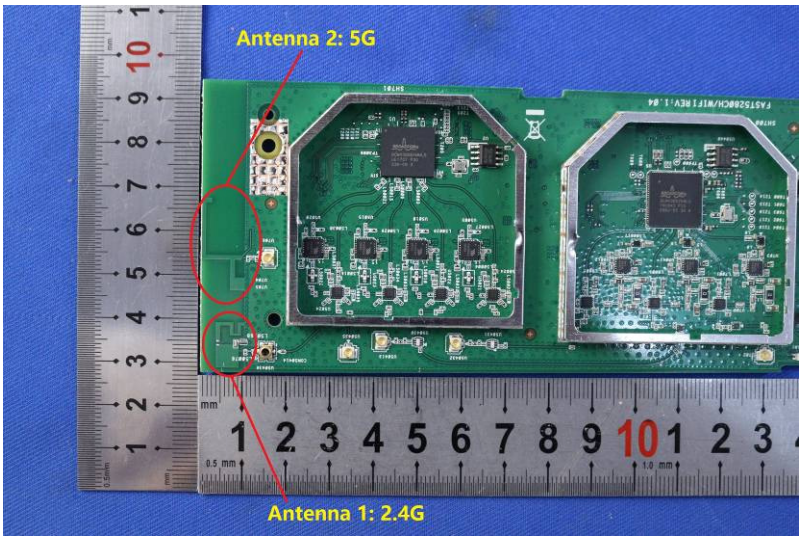
For CDD mode, according to KDB 662911 D01 section F.2(f)(ii), the directional gain is below.

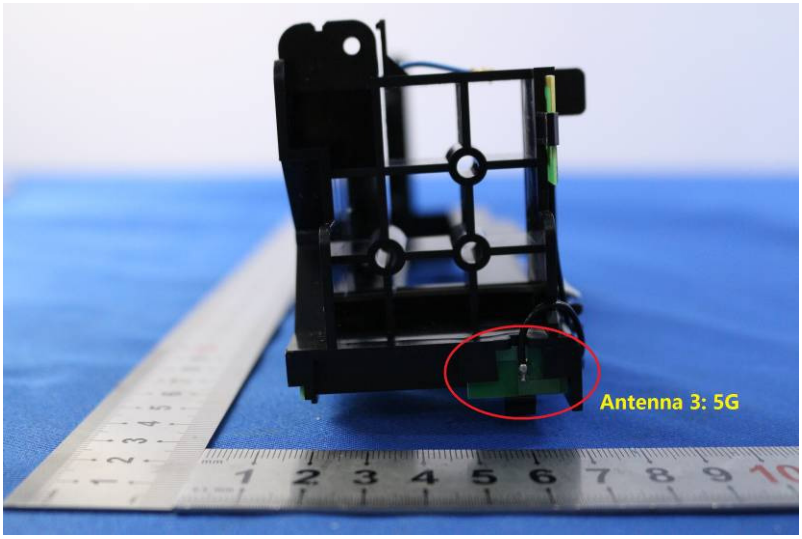
For Power measurement: Directional Gain = G_{ANT_Max} = 4.9dBi

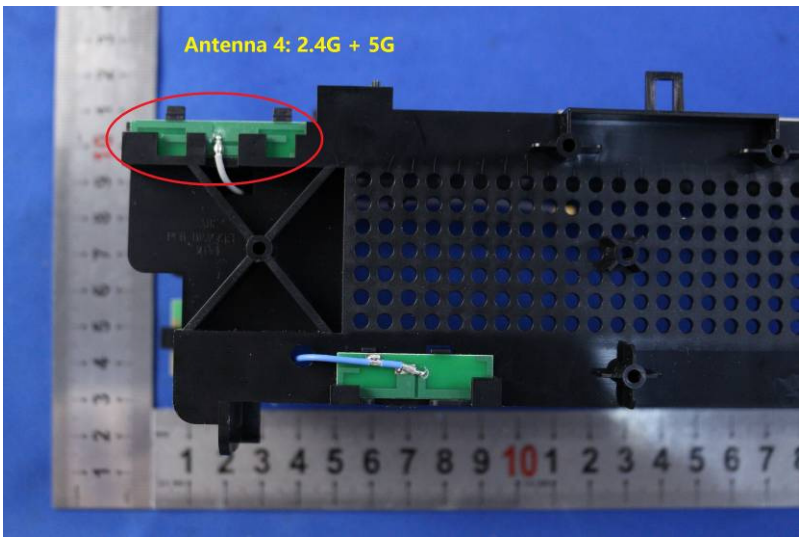
For PSD measurement: Directional Gain = G_{ANT_Max} + 10log(4/1) = 10.9dBi

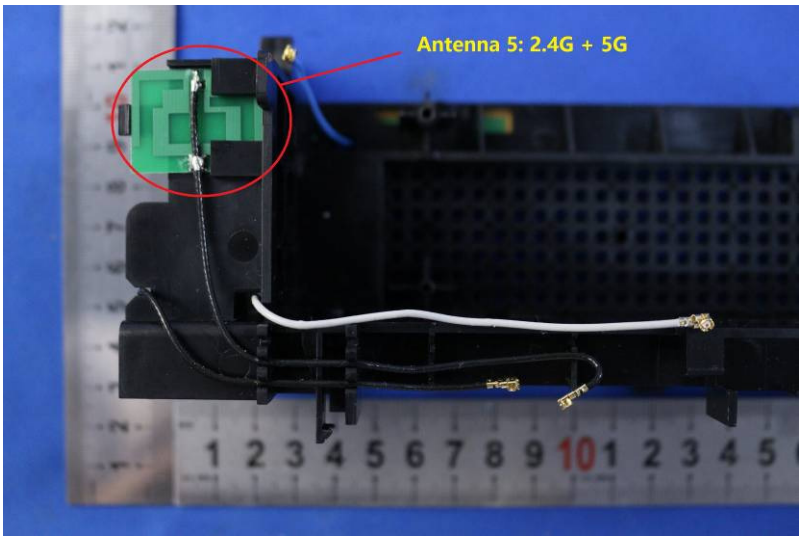
For Beamforming mode, the measured directional gain = 7.58dBi @band 1 ; 7.27dBi @ band 3.

For both CDD and beamforming mode, the setting of test software is the same. Only the antenna mode selection is different. So RF conducted test data for both mode is the same.









6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirment:

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 ((BCM4366E) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detects absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:

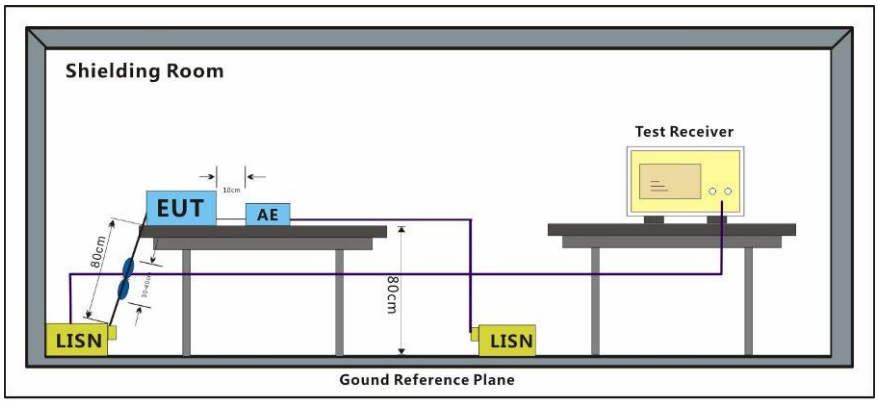
Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case: 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 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.

The worst case for final test: 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.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

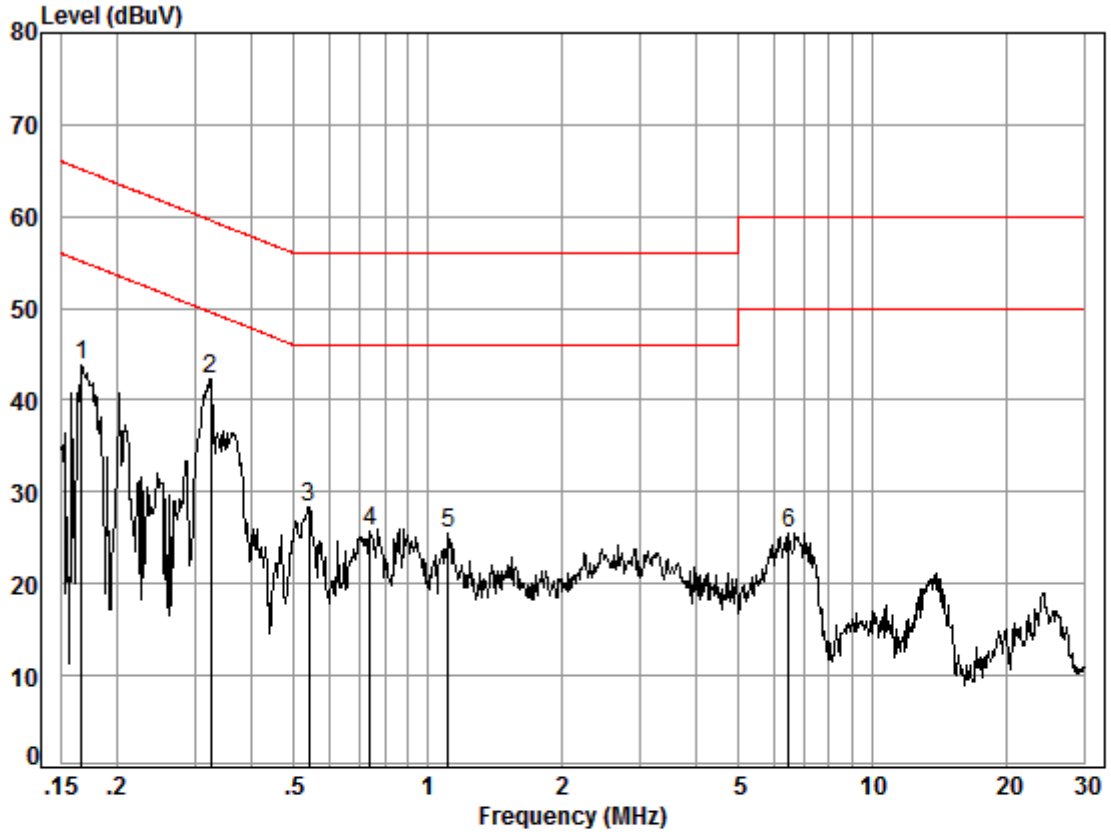
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

Remark: Three adapter were tested, and the data of adapter 3 is the worst. Only the data of adapter 3 is recorded in the report.

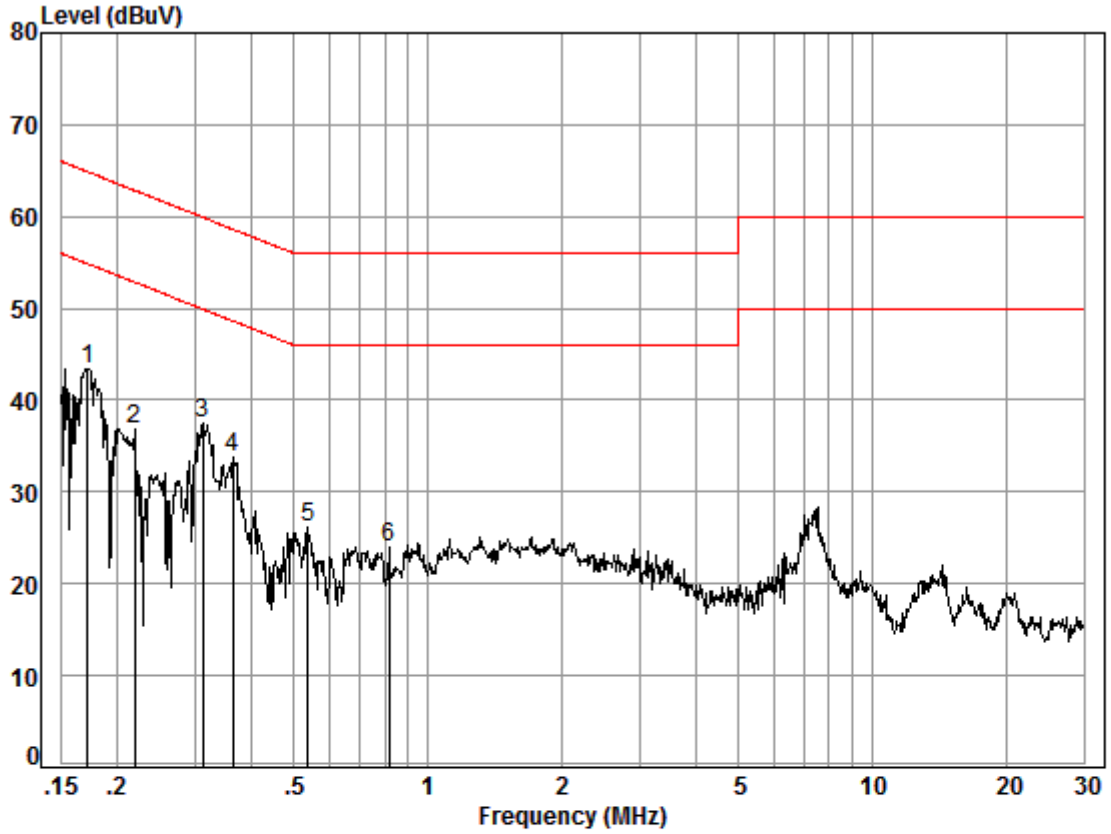
Mode:b; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 07162CR
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.63	34.26	43.91	55.12	-11.21	Peak
2	0.33	0.01	9.63	32.72	42.36	49.57	-7.21	Peak
3	0.54	0.01	9.63	18.76	28.40	46.00	-17.60	Peak
4	0.74	0.02	9.64	16.16	25.82	46.00	-20.18	Peak
5	1.11	0.02	9.64	15.76	25.42	46.00	-20.58	Peak
6	6.49	0.01	9.76	15.76	25.53	50.00	-24.47	Peak

Mode:b; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 07162CR
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.63	33.73	43.38	54.86	-11.48	Peak
2	0.22	0.02	9.63	27.25	36.90	52.83	-15.93	Peak
3	0.31	0.01	9.63	27.80	37.44	49.93	-12.49	Peak
4	0.37	0.01	9.63	24.06	33.70	48.61	-14.91	Peak
5	0.54	0.01	9.63	16.50	26.14	46.00	-19.86	Peak
6	0.82	0.02	9.64	14.33	23.99	46.00	-22.01	Peak

7.2 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:

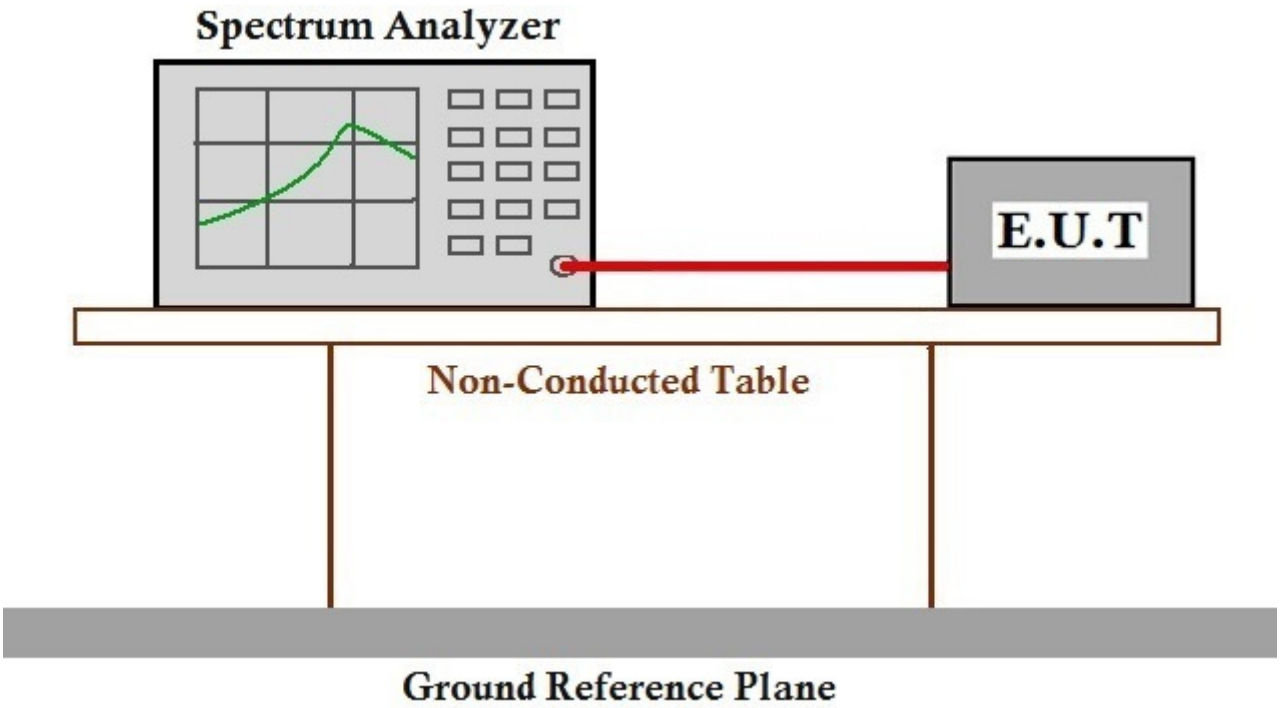
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:

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 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.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

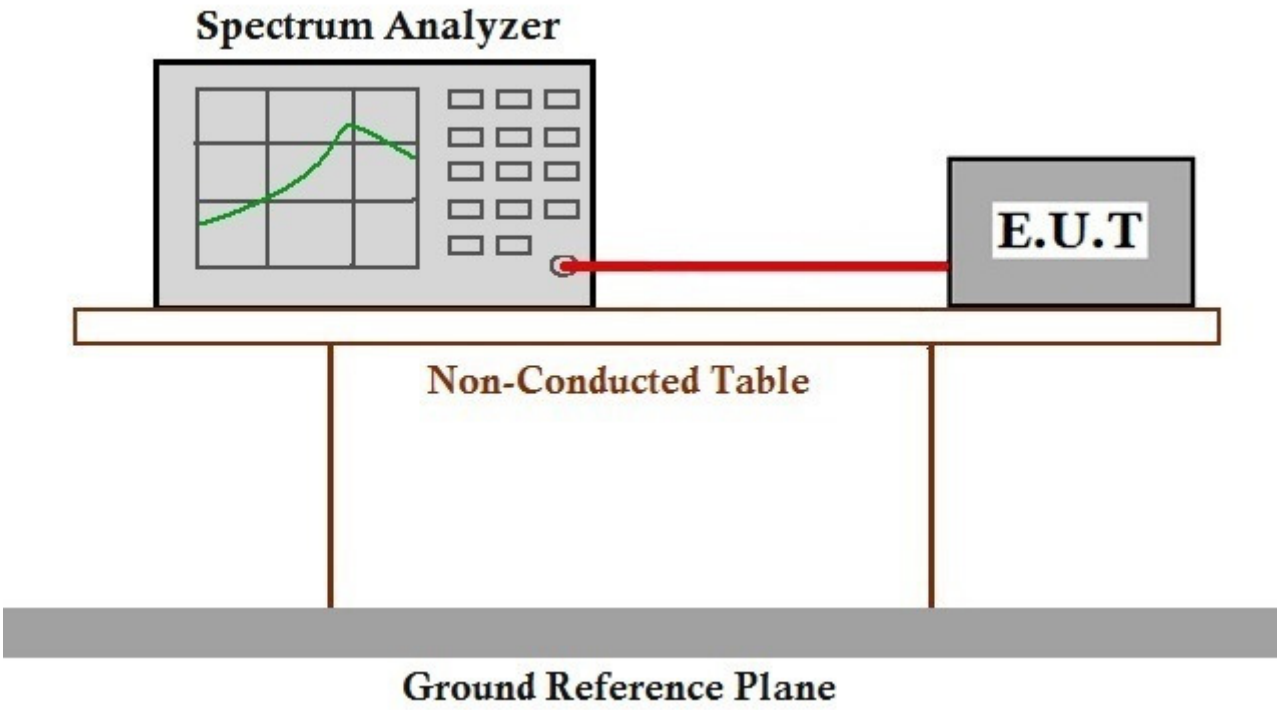
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 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.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407

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

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

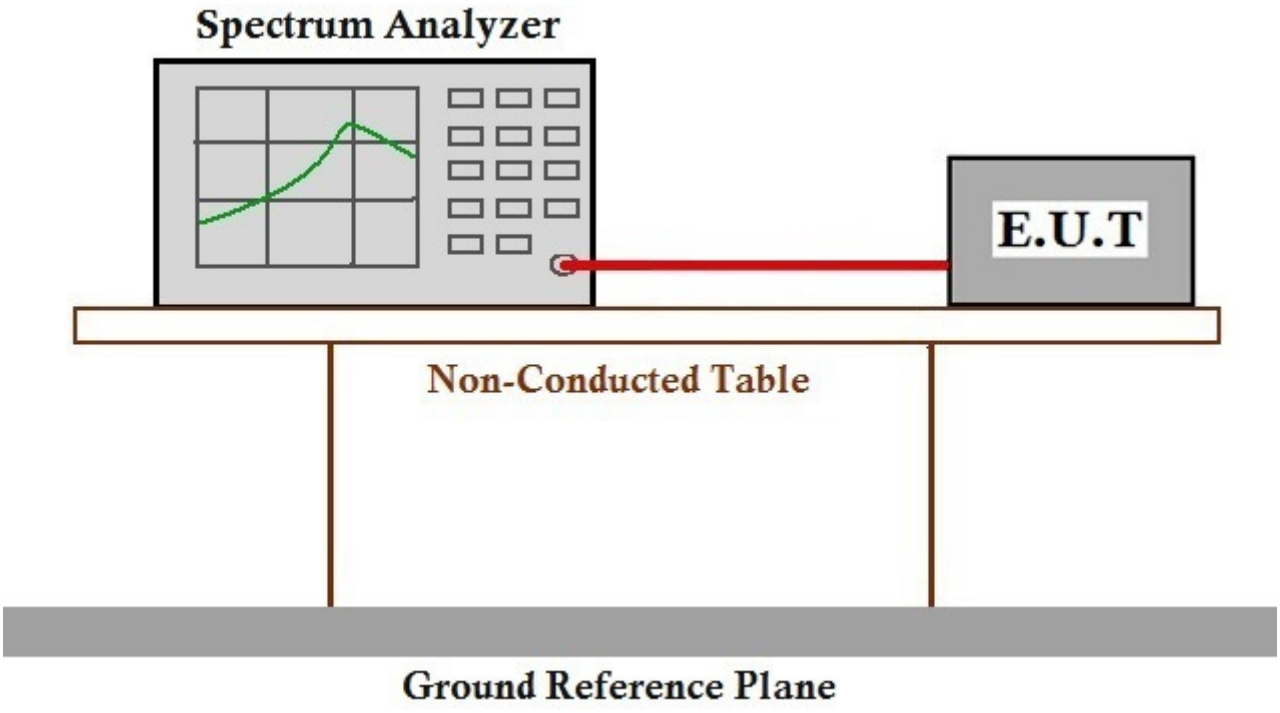
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode: c: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 15.407

7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 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: *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.	

7.5.1 E.U.T. Operation

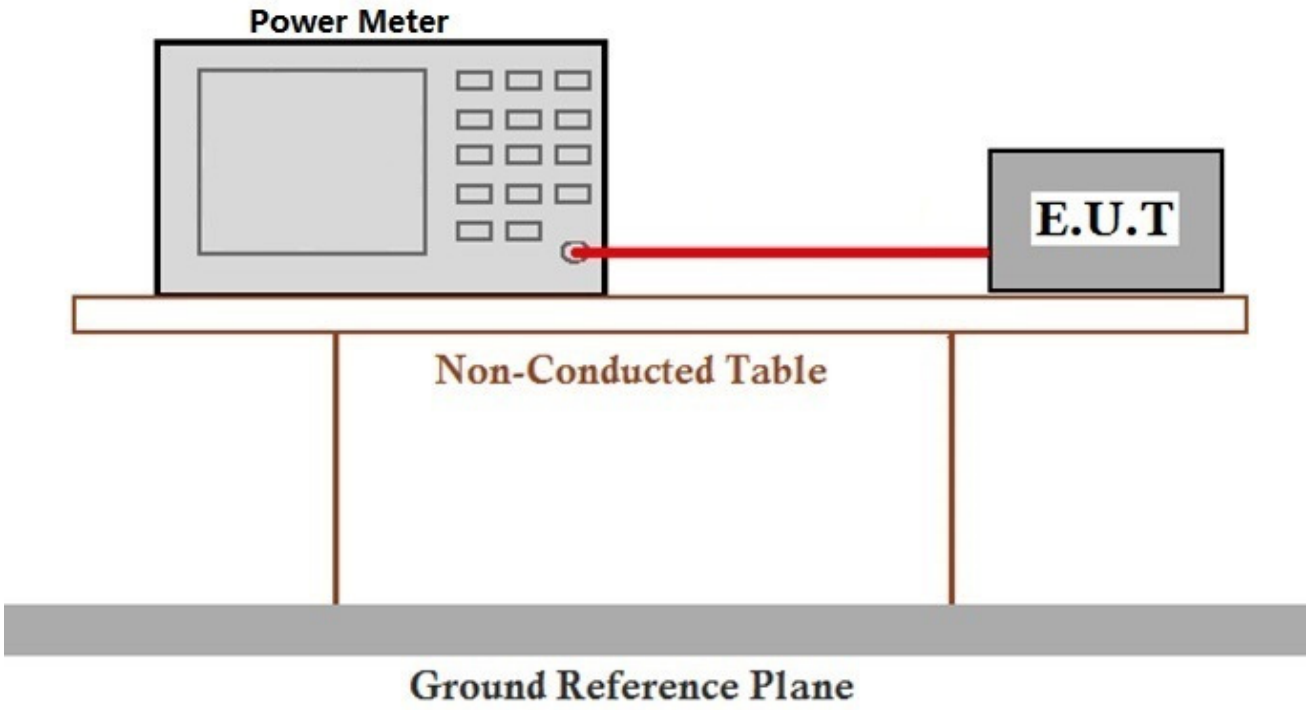
Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 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 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 15.407

7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 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.	

7.6.1 E.U.T. Operation

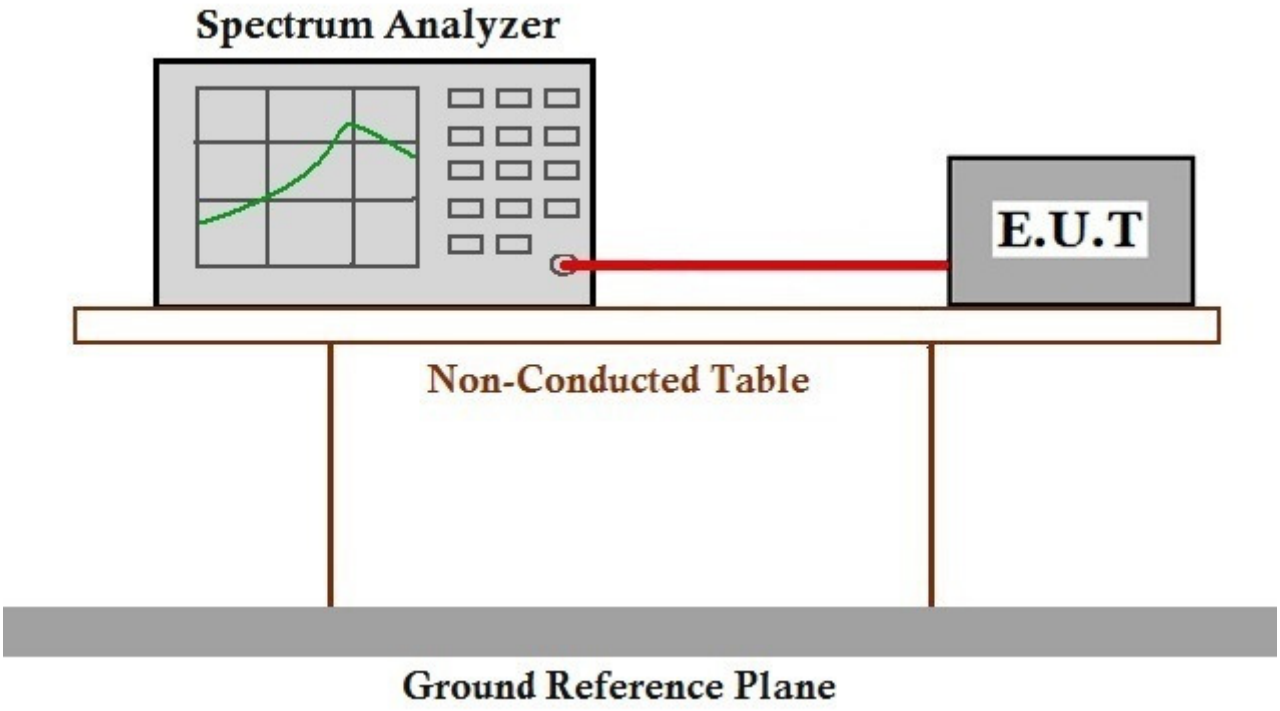
Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 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 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 15.407

7.7 Radiated Emissions

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

7.7.1 E.U.T. Operation

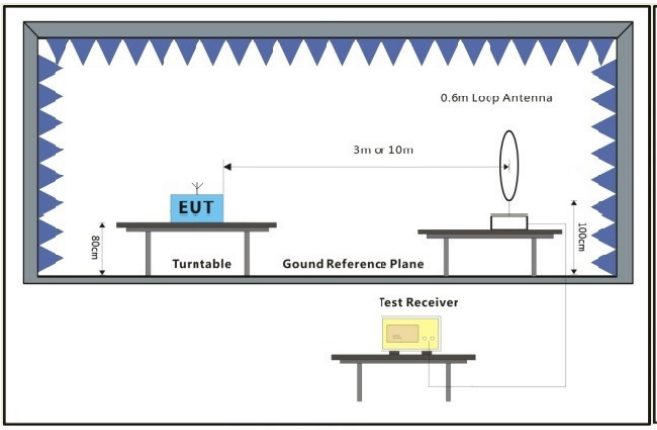
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

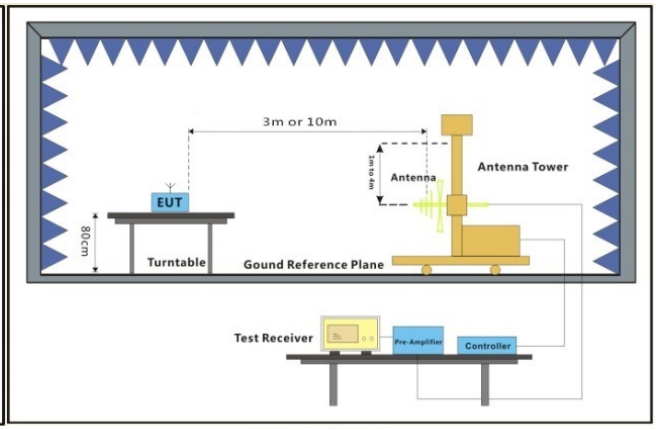
Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0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

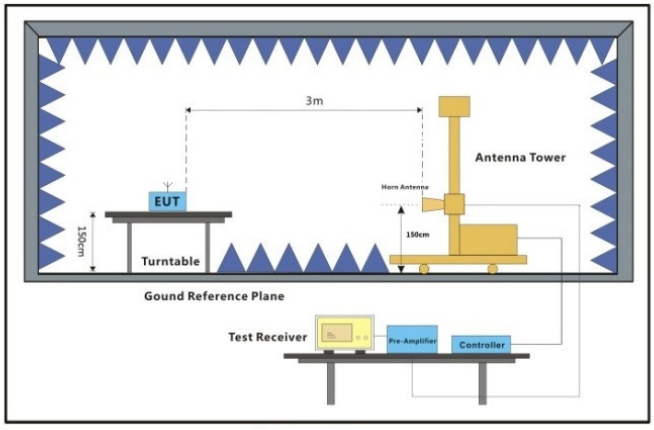
7.7.2 Test Setup Diagram



Below 30MHz



30MHz-1GHz



Above 1GHz

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

Remark:

1. For 802.11a mode, the test was performed at SISO mode, and only the data of worst case (transmitting with antenna 1) is recorded in the report. For 802.11n and 802.11ac mode, the test was performed at MIMO mode. For MIMO mode, both CDD mode and beamforming mode were tested, and found beamforming mode is the worst case.

2. For below 1GHz, through Pre-scan, found that the 802.11a mode @ 6Mbps rate on the lowest channel is the worst case.

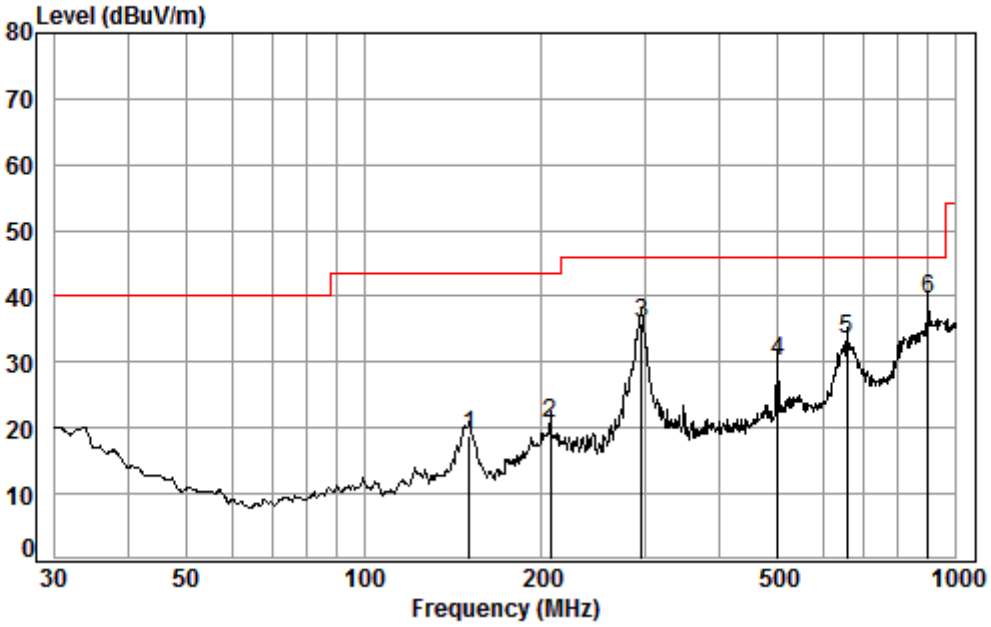
3. Three adapter were tested, and the data of adapter 2 is the worst.

4. Only the data of worst case is recorded in the report.

Below 1GHz:

Remark: For below 1GHz, through Pre-scan, found that the 802.11a mode @ 6Mbps rate on the lowest channel is the worst case, only the data of worst case is recorded in the report.

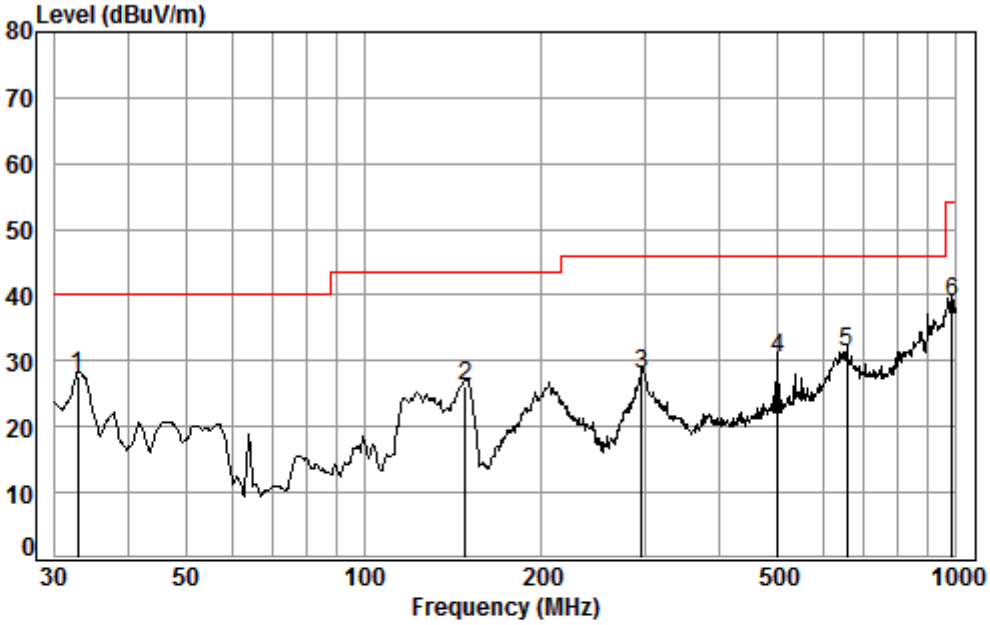
Mode:c; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No. : 07162CR
Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	150.54	1.32	9.03	26.90	35.42	18.87	43.50	-24.63
2	206.40	1.44	10.53	26.67	35.25	20.55	43.50	-22.95
3	295.15	1.88	13.69	26.42	46.81	35.96	46.00	-10.04
4	501.18	2.60	17.83	27.69	37.35	30.09	46.00	-15.91
5	654.23	2.81	20.74	27.47	37.26	33.34	46.00	-12.66
6 pp	900.15	3.60	23.20	26.78	39.50	39.52	46.00	-6.48

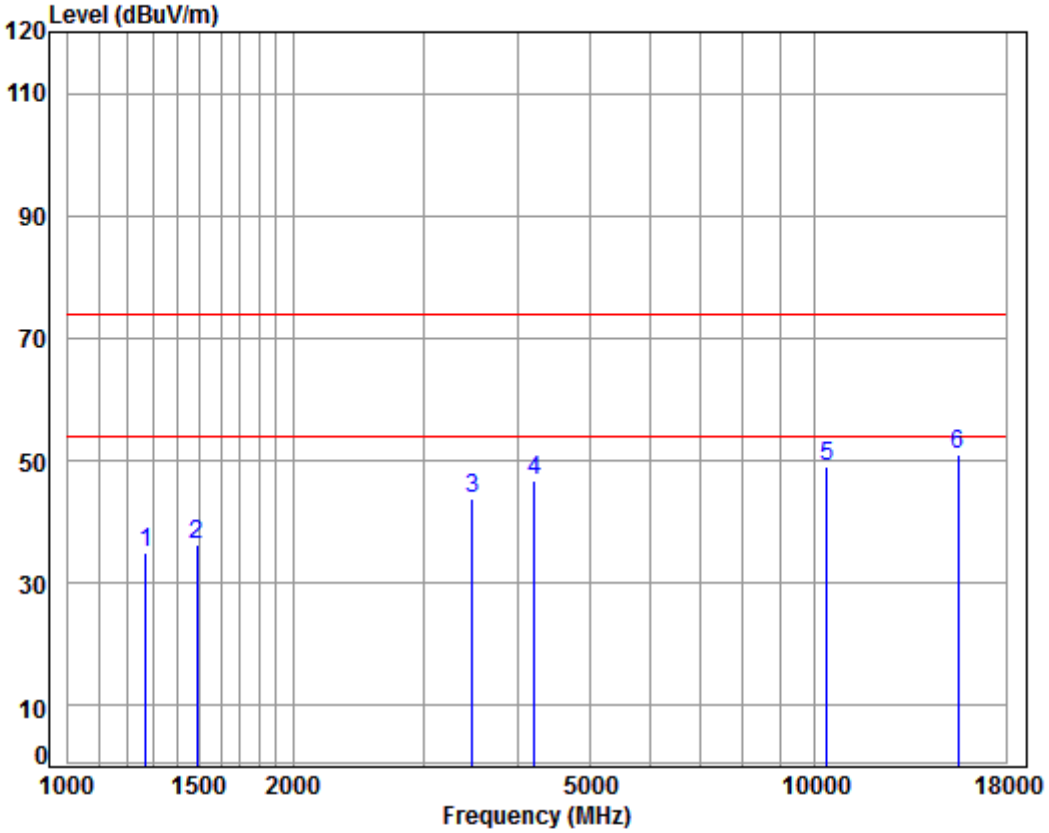
Mode:c; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No. : 07162CR
Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	32.86	0.60	17.10	27.35	37.18	27.53	40.00	-12.47
2	148.44	1.31	8.86	26.91	43.03	26.29	43.50	-17.21
3	295.15	1.88	13.69	26.42	38.86	28.01	46.00	-17.99
4	501.18	2.60	17.83	27.69	37.56	30.30	46.00	-15.70
5	654.23	2.81	20.74	27.47	35.16	31.24	46.00	-14.76
6	986.07	3.69	23.74	26.37	37.92	38.98	54.00	-15.02

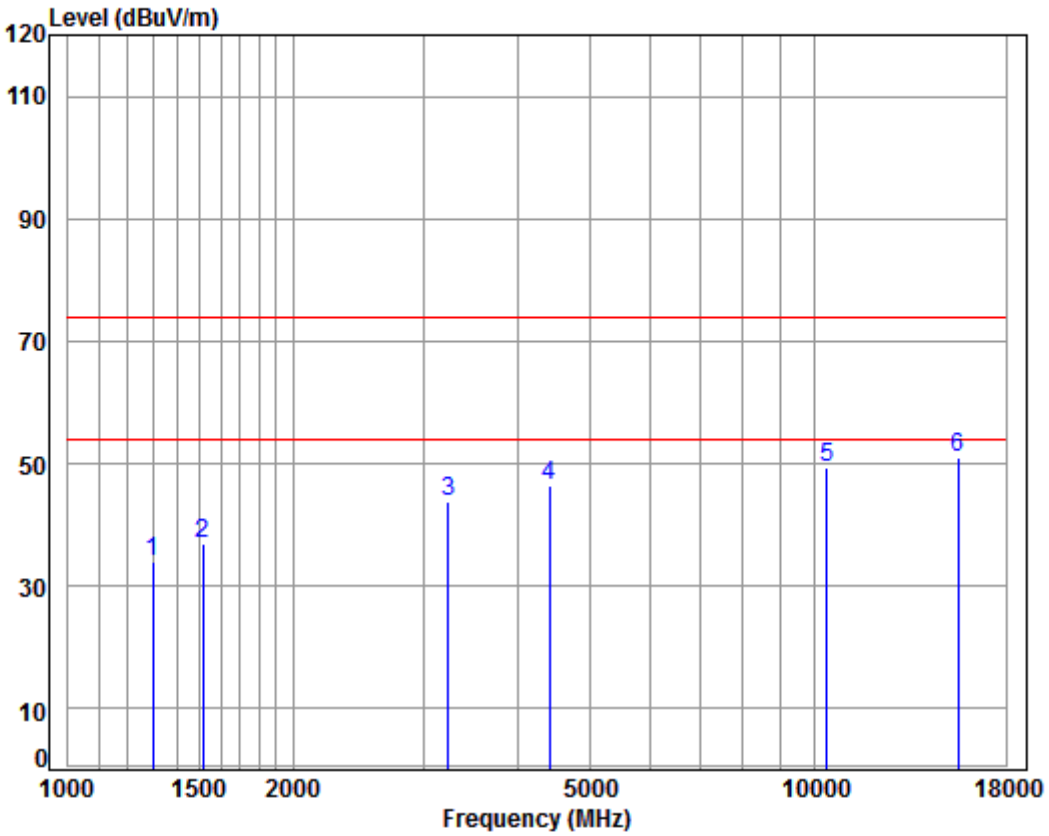
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.69	24.82	38.07	43.46	34.90	74.00	-39.10	peak
2	1485.841	5.43	25.74	38.04	43.13	36.26	74.00	-37.74	peak
3	3475.541	6.44	32.16	37.95	43.31	43.96	74.00	-30.04	peak
4	4206.011	7.23	33.60	38.11	44.18	46.90	74.00	-27.10	peak
5	10360.000	11.19	37.24	35.09	35.74	49.08	74.00	-24.92	peak
6	pp15540.000	14.30	41.38	38.30	33.65	51.03	74.00	-22.97	peak

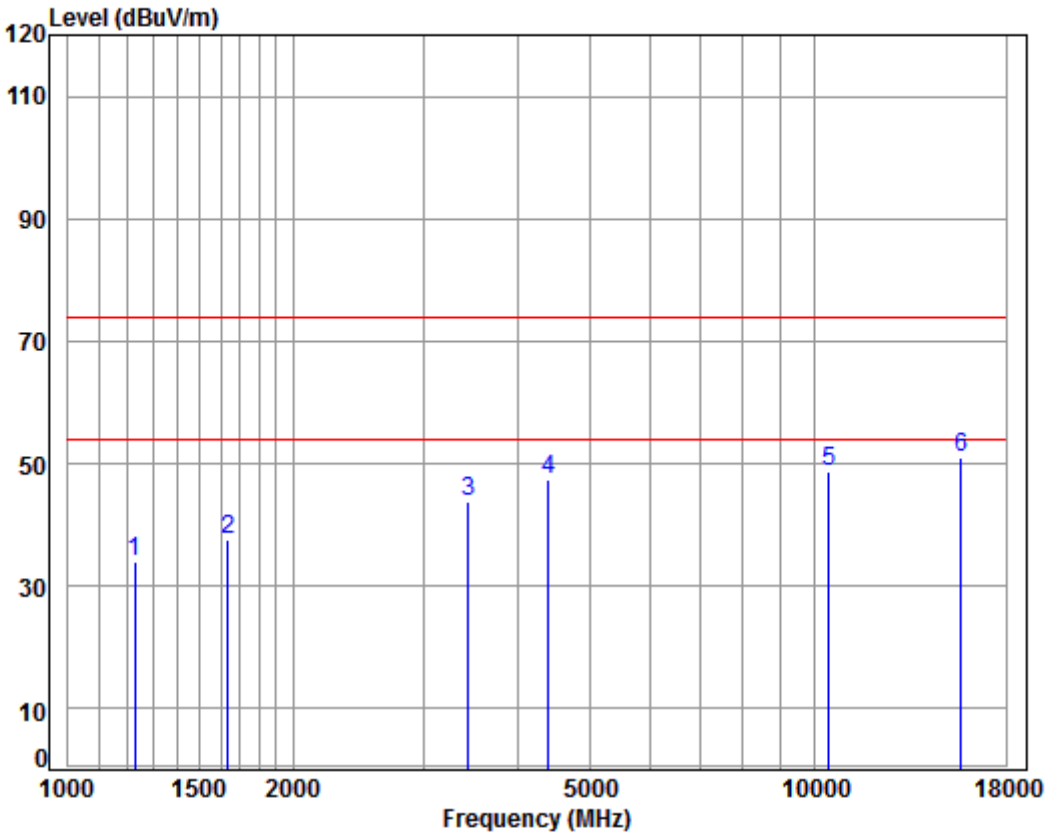
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	24.96	38.06	42.15	33.85	74.00	-40.15	peak
2	1516.210	5.46	25.87	38.04	43.78	37.07	74.00	-36.93	peak
3	3223.928	6.20	31.72	37.93	43.80	43.79	74.00	-30.21	peak
4	4405.090	7.46	33.60	38.22	43.73	46.57	74.00	-27.43	peak
5	10360.000	11.19	37.24	35.09	36.02	49.36	74.00	-24.64	peak
6	pp15540.000	14.30	41.38	38.30	33.65	51.03	74.00	-22.97	peak

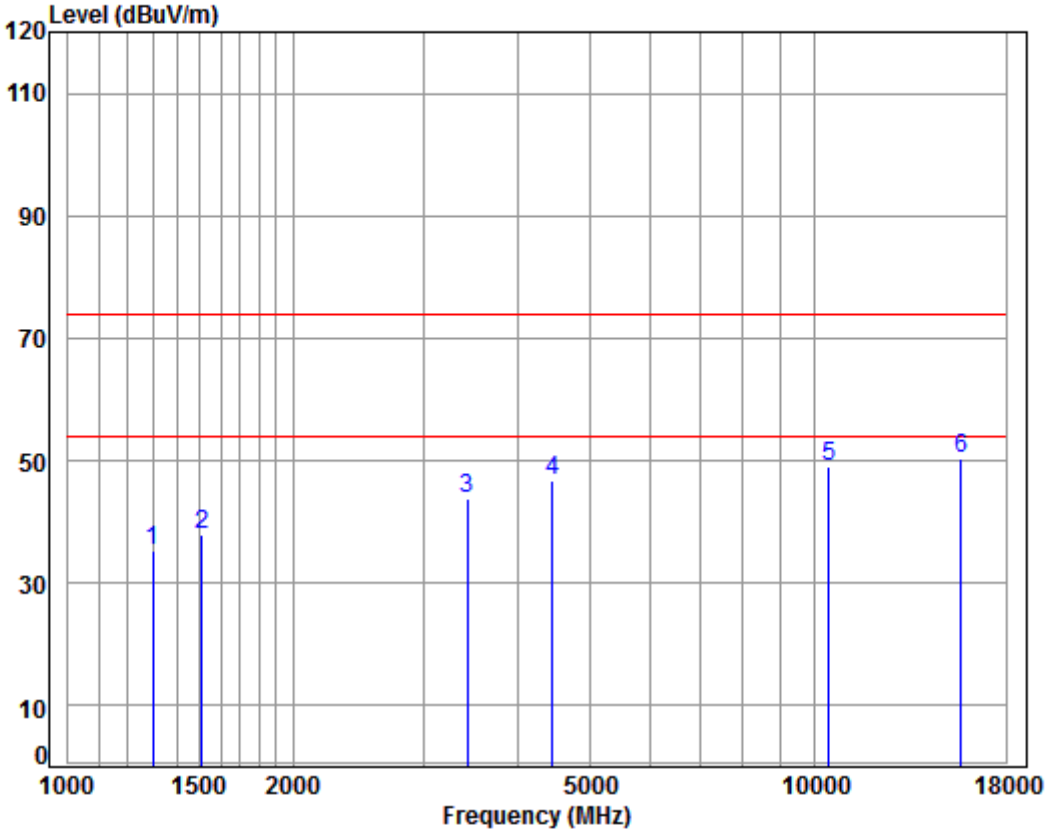
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5220 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	4.53	24.61	38.07	42.78	33.85	74.00	-40.15	peak
2	1639.274	5.30	26.42	38.03	43.98	37.67	74.00	-36.33	peak
3	3435.590	6.40	32.09	37.95	43.24	43.78	74.00	-30.22	peak
4	4392.376	7.44	33.60	38.21	44.45	47.28	74.00	-26.72	peak
5	10440.000	11.25	37.16	35.13	35.42	48.70	74.00	-25.30	peak
6	pp15660.000	14.48	41.34	38.17	33.45	51.10	74.00	-22.90	peak

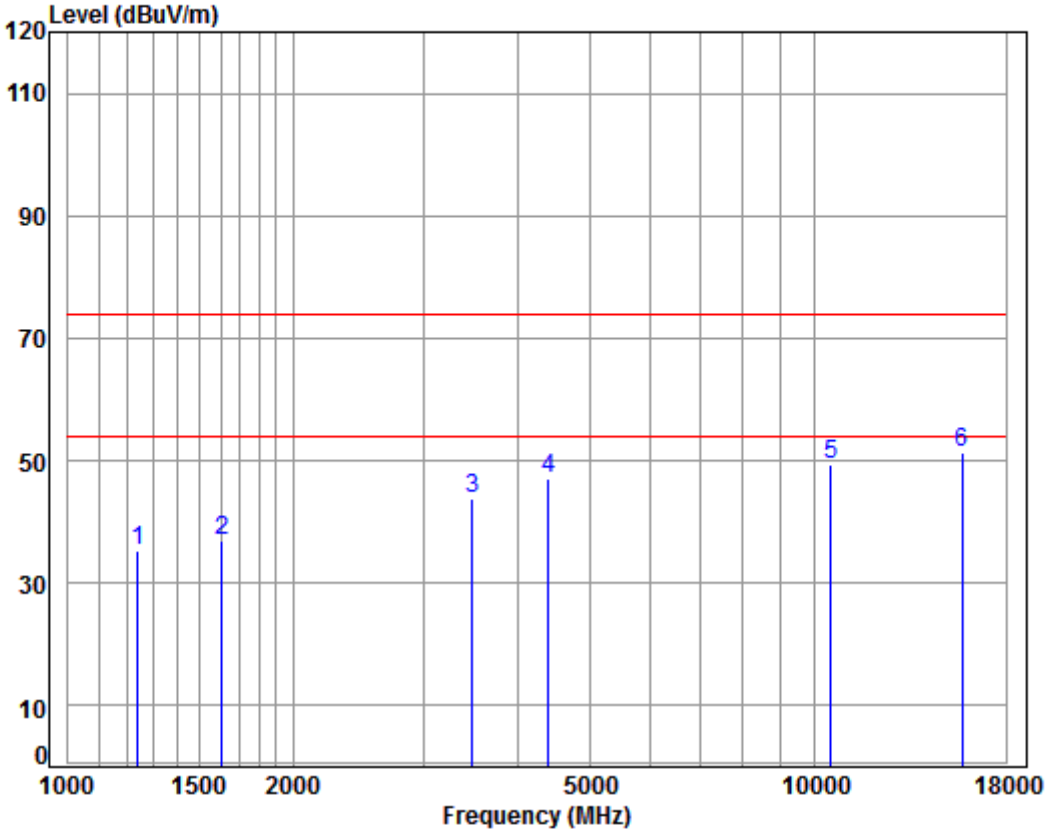
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5220 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	24.96	38.06	43.63	35.33	74.00	-38.67	peak
2	1511.833	5.46	25.85	38.04	44.51	37.78	74.00	-36.22	peak
3	3425.675	6.39	32.07	37.95	43.20	43.71	74.00	-30.29	peak
4	4456.315	7.51	33.60	38.24	43.74	46.61	74.00	-27.39	peak
5	10440.000	11.25	37.16	35.13	35.66	48.94	74.00	-25.06	peak
6	pp15660.000	14.48	41.34	38.17	32.81	50.46	74.00	-23.54	peak

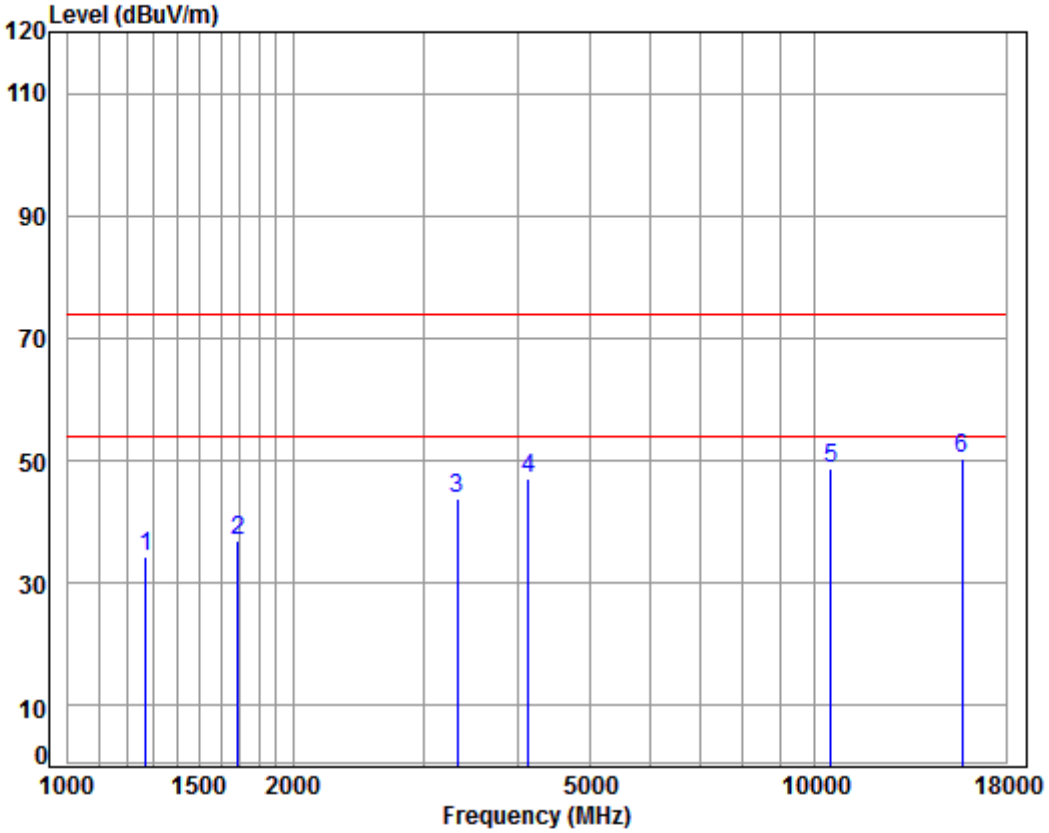
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	4.58	24.68	38.07	44.05	35.24	74.00	-38.76	peak
2	1606.441	5.34	26.28	38.03	43.48	37.07	74.00	-36.93	peak
3	3475.541	6.44	32.16	37.95	43.29	43.94	74.00	-30.06	peak
4	4392.376	7.44	33.60	38.21	44.28	47.11	74.00	-26.89	peak
5	10480.000	11.28	37.12	35.15	36.09	49.34	74.00	-24.66	peak
6	pp15720.000	14.57	41.31	38.10	33.47	51.25	74.00	-22.75	peak

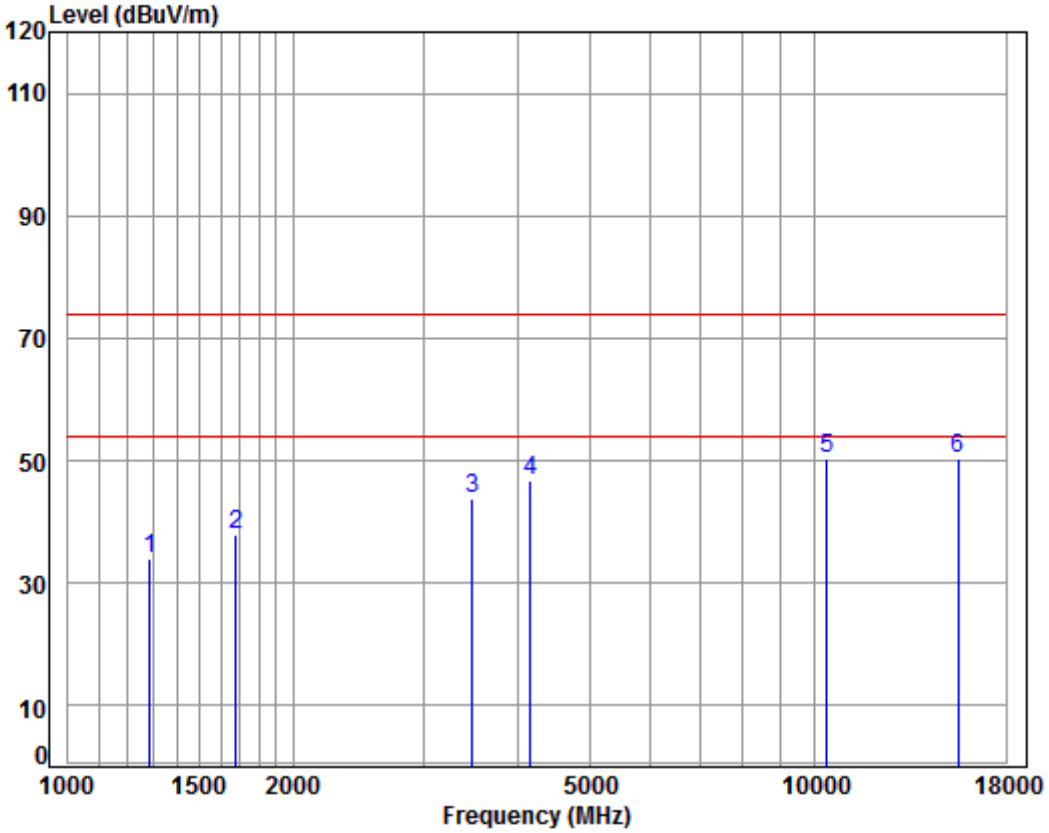
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.69	24.82	38.07	42.90	34.34	74.00	-39.66	peak
2	1687.347	5.24	26.62	38.02	42.98	36.82	74.00	-37.18	peak
3	3318.471	6.29	31.89	37.94	43.56	43.80	74.00	-30.20	peak
4	4133.699	7.14	33.60	38.07	44.55	47.22	74.00	-26.78	peak
5	10480.000	11.28	37.12	35.15	35.53	48.78	74.00	-25.22	peak
6	pp15720.000	14.57	41.31	38.10	32.69	50.47	74.00	-23.53	peak

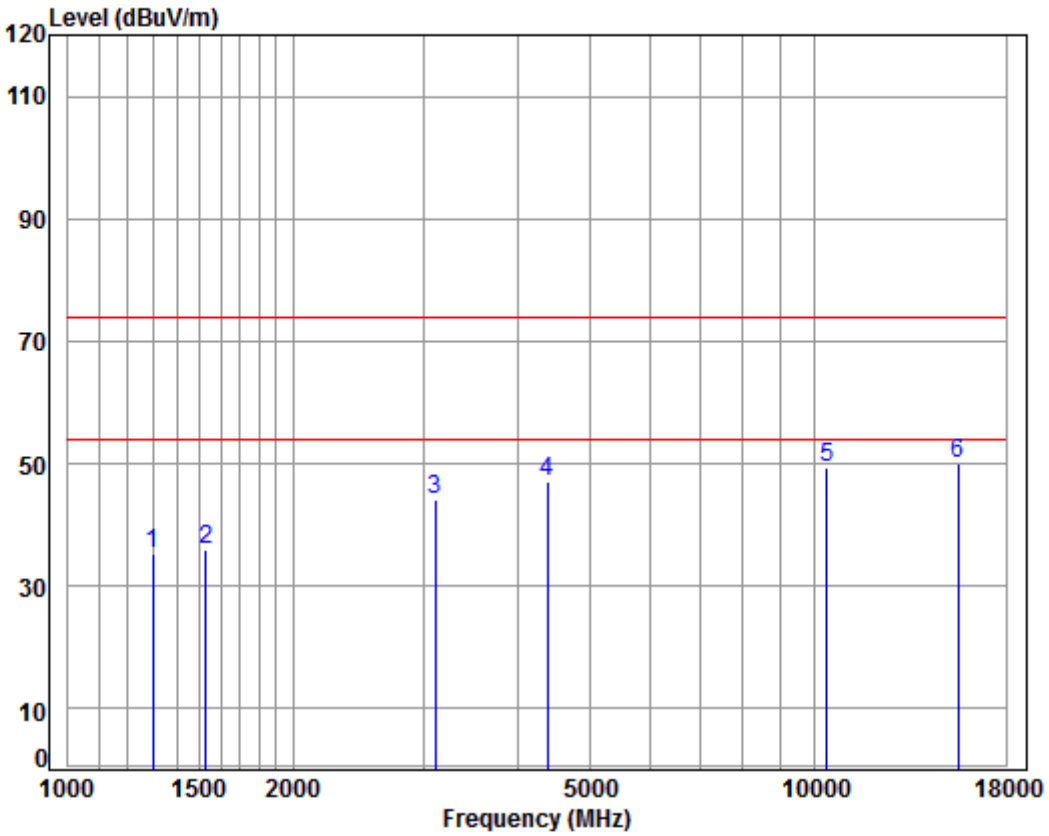
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.89	38.06	42.46	34.04	74.00	-39.96	peak
2	1677.621	5.25	26.58	38.03	43.97	37.77	74.00	-36.23	peak
3	3475.541	6.44	32.16	37.95	43.32	43.97	74.00	-30.03	peak
4	4157.664	7.17	33.60	38.09	44.13	46.81	74.00	-27.19	peak
5	10360.000	11.19	37.24	35.09	37.10	50.44	74.00	-23.56	peak
6	pp15540.000	14.30	41.38	38.30	33.13	50.51	74.00	-23.49	peak

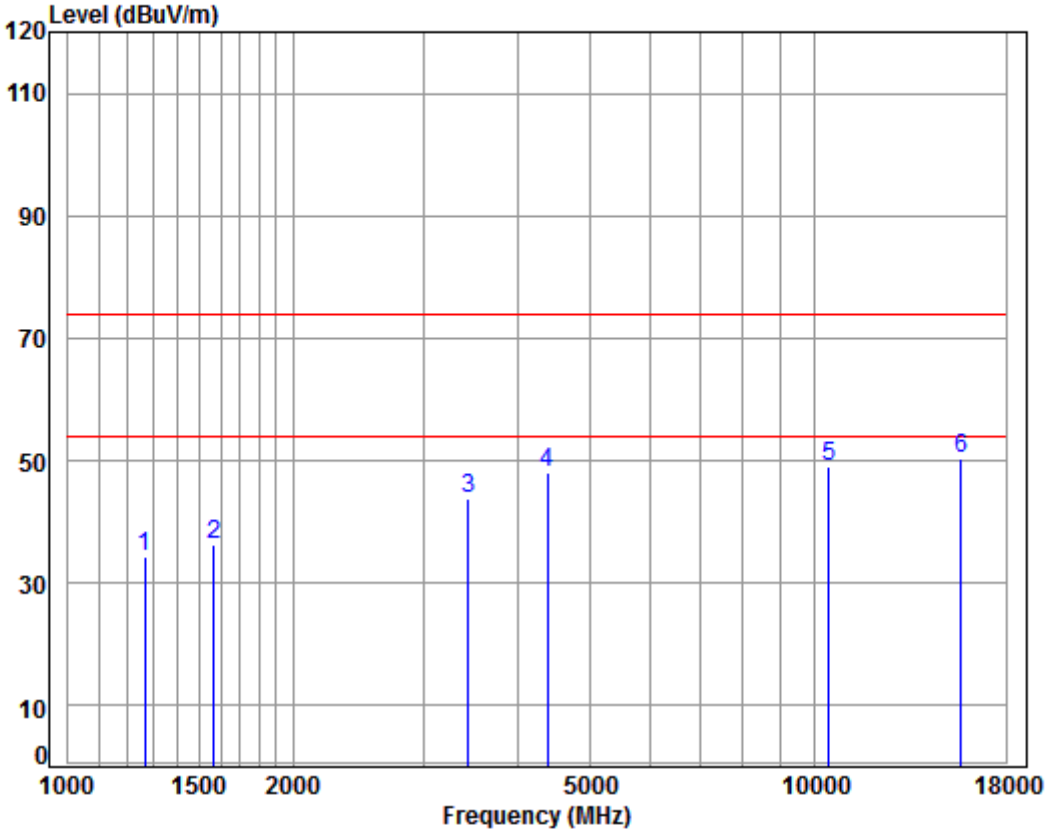
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	24.96	38.06	43.56	35.26	74.00	-38.74	peak
2	1529.414	5.44	25.94	38.04	42.67	36.01	74.00	-37.99	peak
3	3105.037	6.09	31.50	37.91	44.52	44.20	74.00	-29.80	peak
4	4379.699	7.43	33.60	38.20	44.21	47.04	74.00	-26.96	peak
5	10360.000	11.19	37.24	35.09	35.97	49.31	74.00	-24.69	peak
6	pp15540.000	14.30	41.38	38.30	32.73	50.11	74.00	-23.89	peak

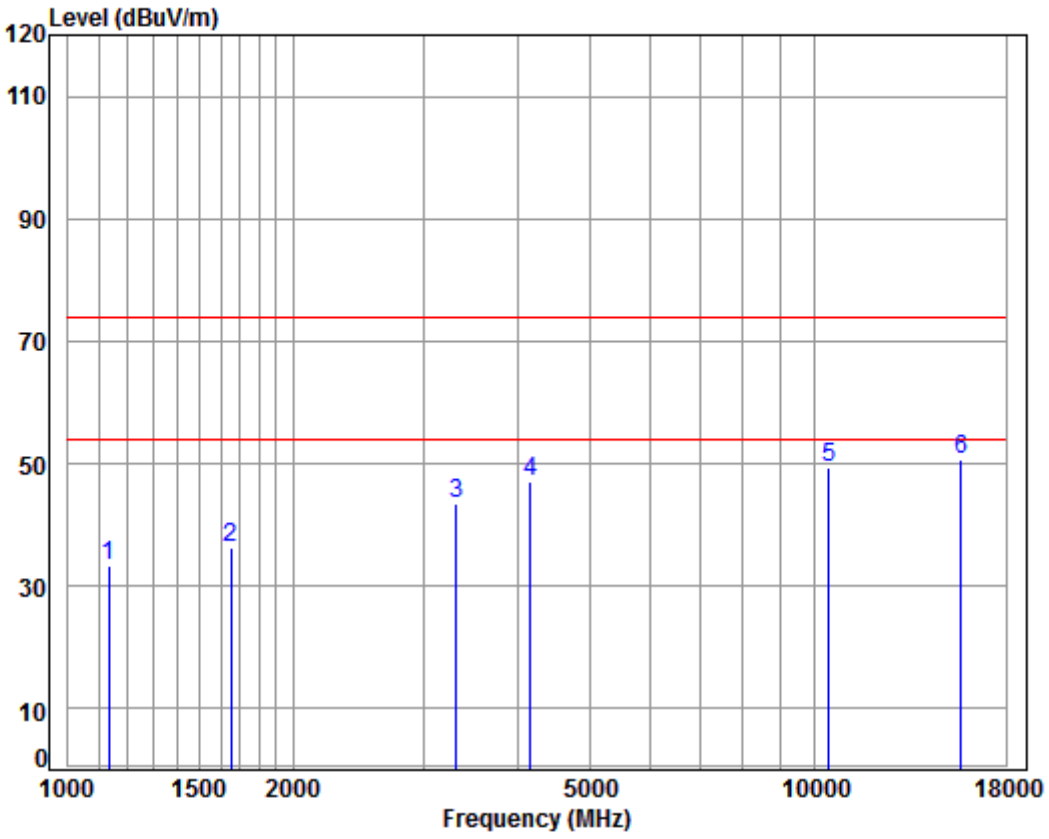
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5220 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.68	24.80	38.07	42.93	34.34	74.00	-39.66	peak
2	1569.721	5.39	26.12	38.03	42.96	36.44	74.00	-37.56	peak
3	3435.590	6.40	32.09	37.95	43.38	43.92	74.00	-30.08	peak
4	4379.699	7.43	33.60	38.20	45.22	48.05	74.00	-25.95	peak
5	10440.000	11.25	37.16	35.13	35.70	48.98	74.00	-25.02	peak
6	pp15660.000	14.48	41.34	38.17	32.79	50.44	74.00	-23.56	peak

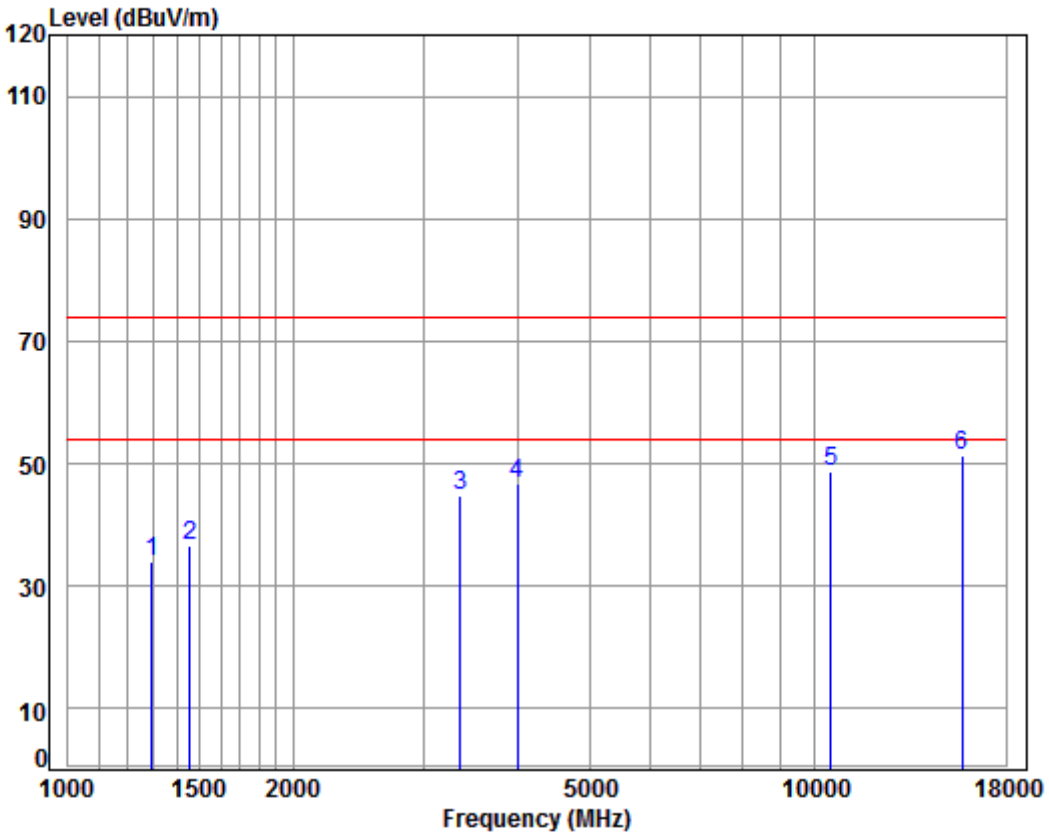
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5220 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	4.14	24.14	38.08	43.16	33.36	74.00	-40.64	peak
2	1653.550	5.28	26.48	38.03	42.60	36.33	74.00	-37.67	peak
3	3308.894	6.29	31.87	37.93	43.42	43.65	74.00	-30.35	peak
4	4157.664	7.17	33.60	38.09	44.43	47.11	74.00	-26.89	peak
5	10440.000	11.25	37.16	35.13	35.93	49.21	74.00	-24.79	peak
6	pp15660.000	14.48	41.34	38.17	33.16	50.81	74.00	-23.19	peak

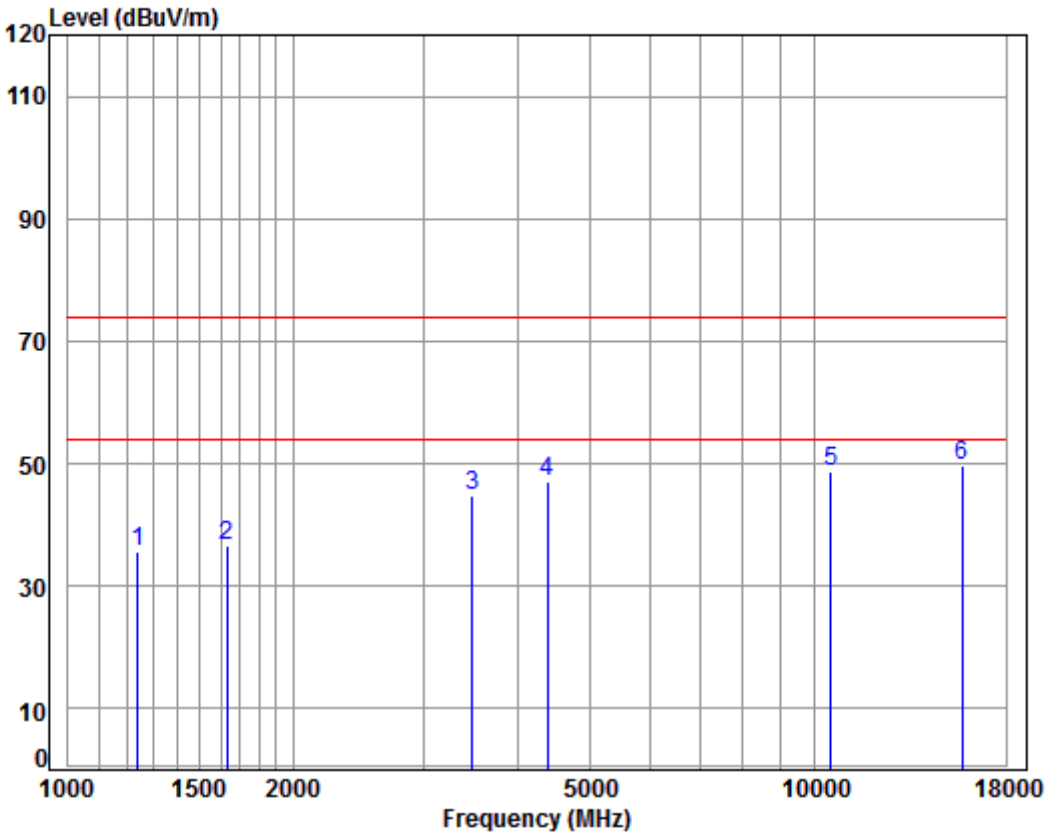
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	4.77	24.92	38.06	42.46	34.09	74.00	-39.91	peak
2	1456.081	5.34	25.62	38.05	43.68	36.59	74.00	-37.41	peak
3	3347.371	6.32	31.94	37.94	44.34	44.66	74.00	-29.34	peak
4	3992.781	6.97	33.58	38.00	44.28	46.83	74.00	-27.17	peak
5	10480.000	11.28	37.12	35.15	35.57	48.82	74.00	-25.18	peak
6	pp15720.000	14.57	41.31	38.10	33.65	51.43	74.00	-22.57	peak

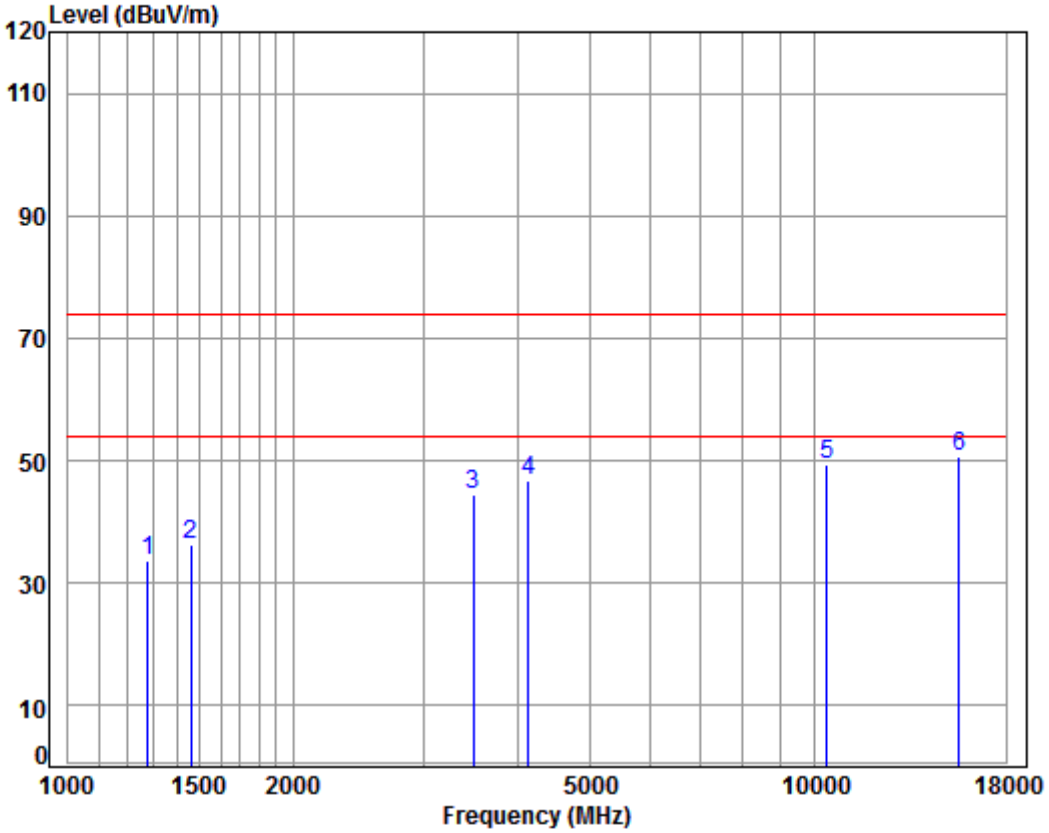
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	4.57	24.67	38.07	44.34	35.51	74.00	-38.49	peak
2	1629.825	5.31	26.38	38.03	42.88	36.54	74.00	-37.46	peak
3	3475.541	6.44	32.16	37.95	44.02	44.67	74.00	-29.33	peak
4	4379.699	7.43	33.60	38.20	44.17	47.00	74.00	-27.00	peak
5	10480.000	11.28	37.12	35.15	35.45	48.70	74.00	-25.30	peak
6	pp15720.000	14.57	41.31	38.10	31.99	49.77	74.00	-24.23	peak

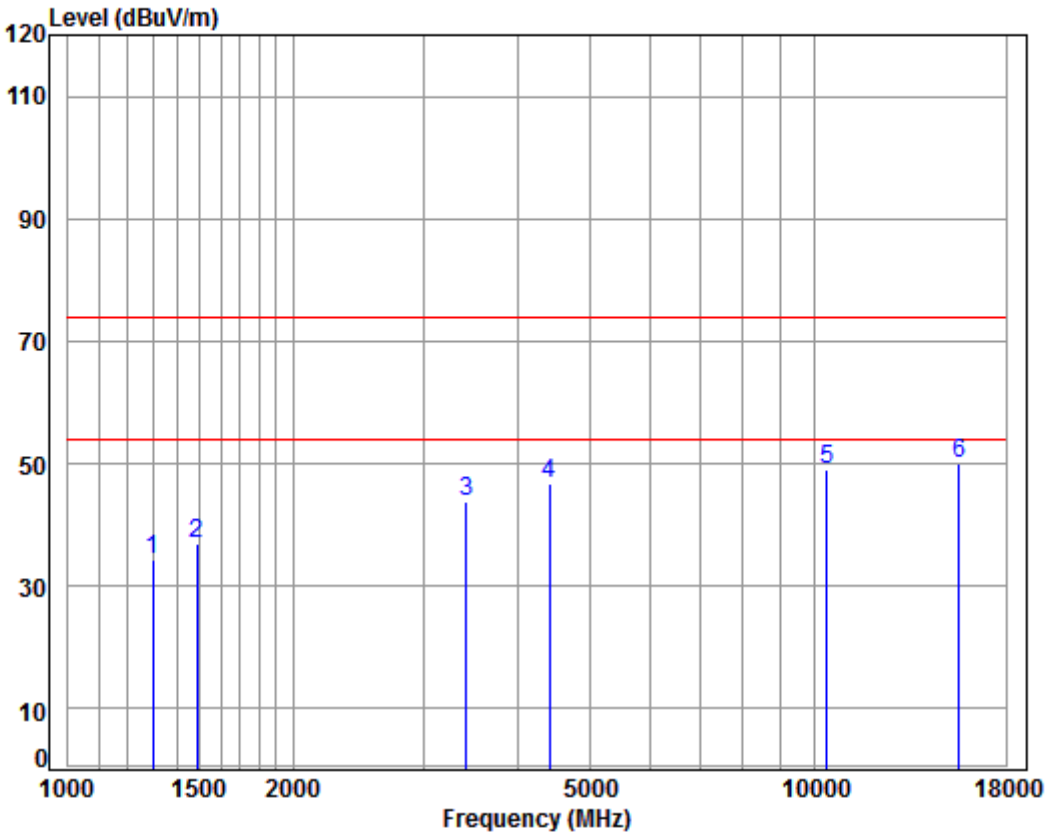
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5190 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	4.72	24.85	38.06	42.03	33.54	74.00	-40.46	peak
2	1460.295	5.35	25.64	38.05	43.43	36.37	74.00	-37.63	peak
3	3485.601	6.45	32.18	37.95	43.86	44.54	74.00	-29.46	peak
4	4133.699	7.14	33.60	38.07	44.23	46.90	74.00	-27.10	peak
5	10380.000	11.21	37.22	35.10	36.14	49.47	74.00	-24.53	peak
6	pp15570.000	14.35	41.37	38.26	33.11	50.57	74.00	-23.43	peak

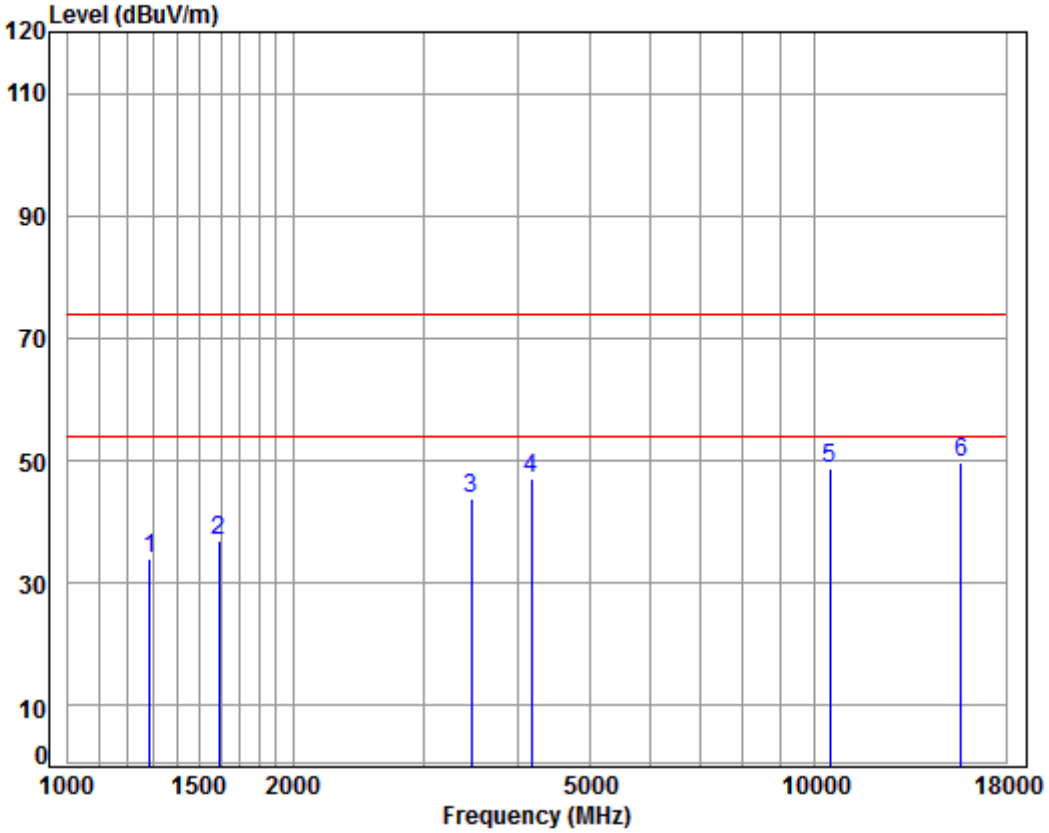
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5190 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	24.96	38.06	42.56	34.26	74.00	-39.74	peak
2	1490.142	5.45	25.76	38.04	43.63	36.80	74.00	-37.20	peak
3	3415.787	6.38	32.06	37.95	43.42	43.91	74.00	-30.09	peak
4	4405.090	7.46	33.60	38.22	43.93	46.77	74.00	-27.23	peak
5	10380.000	11.21	37.22	35.10	35.56	48.89	74.00	-25.11	peak
6	pp15570.000	14.35	41.37	38.26	32.65	50.11	74.00	-23.89	peak

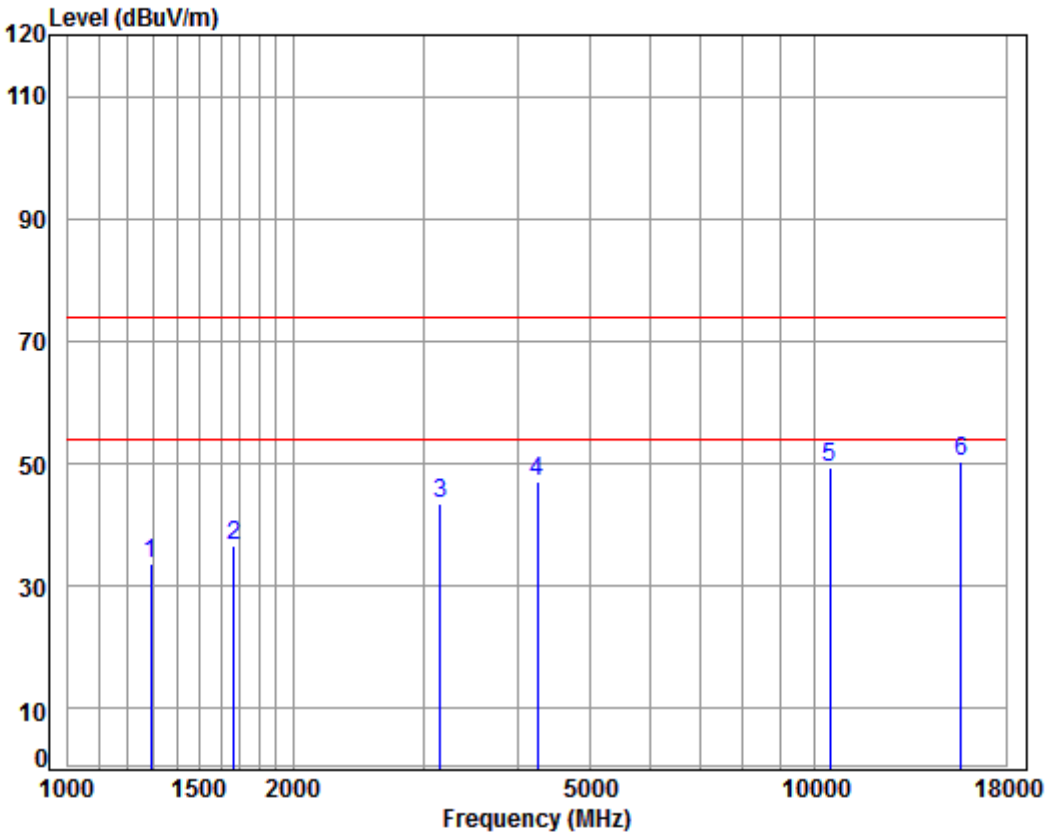
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5230 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	4.75	24.89	38.06	42.41	33.99	74.00	-40.01	peak
2	1592.571	5.36	26.22	38.03	43.50	37.05	74.00	-36.95	peak
3	3465.510	6.43	32.14	37.95	43.34	43.96	74.00	-30.04	peak
4	4169.698	7.18	33.60	38.09	44.42	47.11	74.00	-26.89	peak
5	10460.000	11.26	37.14	35.14	35.30	48.56	74.00	-25.44	peak
6	pp15690.000	14.53	41.32	38.13	32.06	49.78	74.00	-24.22	peak

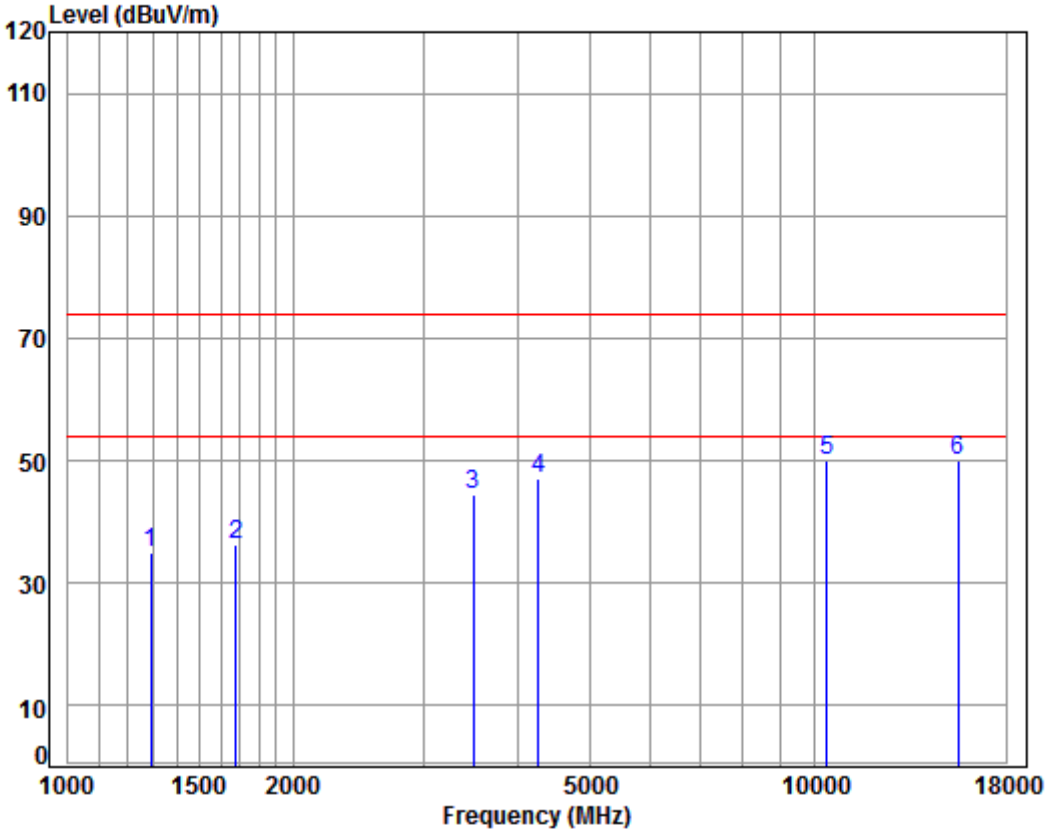
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5230 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.91	38.06	42.03	33.64	74.00	-40.36	peak
2	1667.951	5.27	26.54	38.03	42.70	36.48	74.00	-37.52	peak
3	3150.237	6.13	31.59	37.92	43.69	43.49	74.00	-30.51	peak
4	4254.921	7.28	33.60	38.14	44.34	47.08	74.00	-26.92	peak
5	10460.000	11.26	37.14	35.14	36.09	49.35	74.00	-24.65	peak
6	pp15690.000	14.53	41.32	38.13	32.78	50.50	74.00	-23.50	peak

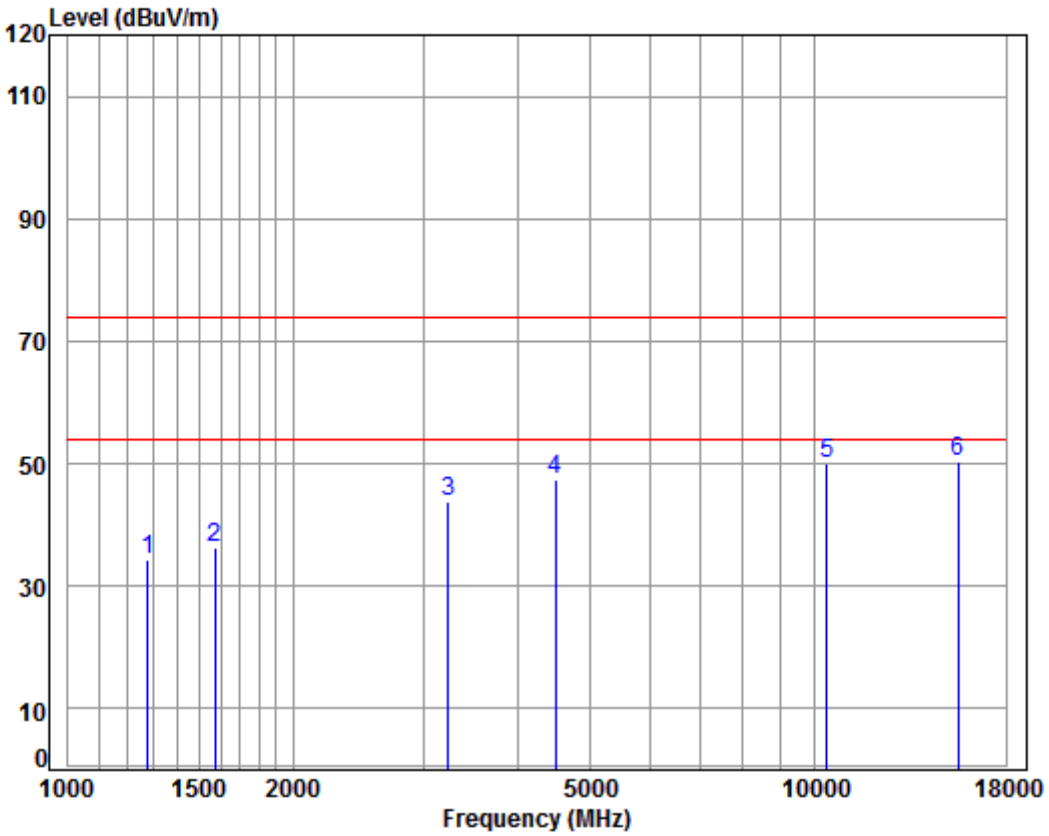
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.91	38.06	43.25	34.86	74.00	-39.14	peak
2	1677.621	5.25	26.58	38.03	42.40	36.20	74.00	-37.80	peak
3	3485.601	6.45	32.18	37.95	43.92	44.60	74.00	-29.40	peak
4	4267.237	7.30	33.60	38.14	44.34	47.10	74.00	-26.90	peak
5	10360.000	11.19	37.24	35.09	36.74	50.08	74.00	-23.92	peak
6	pp15540.000	14.30	41.38	38.30	32.80	50.18	74.00	-23.82	peak

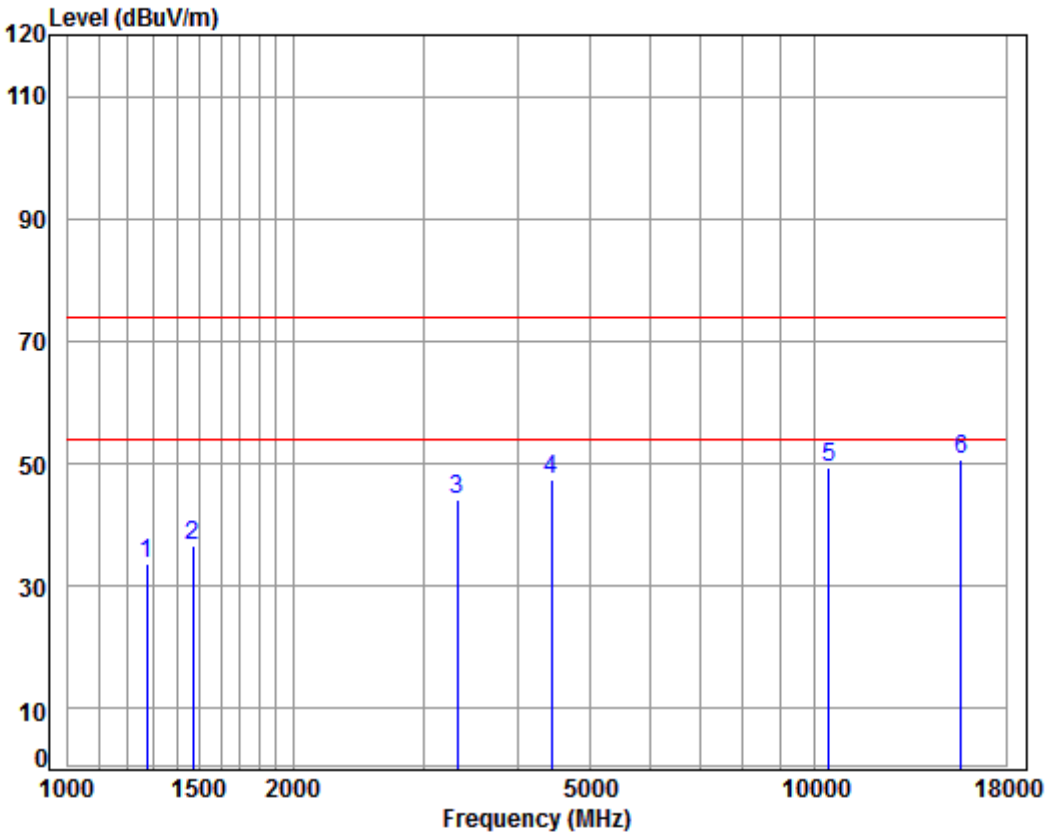
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	4.72	24.85	38.06	42.88	34.39	74.00	-39.61	peak
2	1574.265	5.38	26.14	38.03	42.95	36.44	74.00	-37.56	peak
3	3233.260	6.21	31.74	37.93	43.85	43.87	74.00	-30.13	peak
4	4495.125	7.55	33.60	38.26	44.44	47.33	74.00	-26.67	peak
5	10360.000	11.19	37.24	35.09	36.63	49.97	74.00	-24.03	peak
6	pp15540.000	14.30	41.38	38.30	32.99	50.37	74.00	-23.63	peak

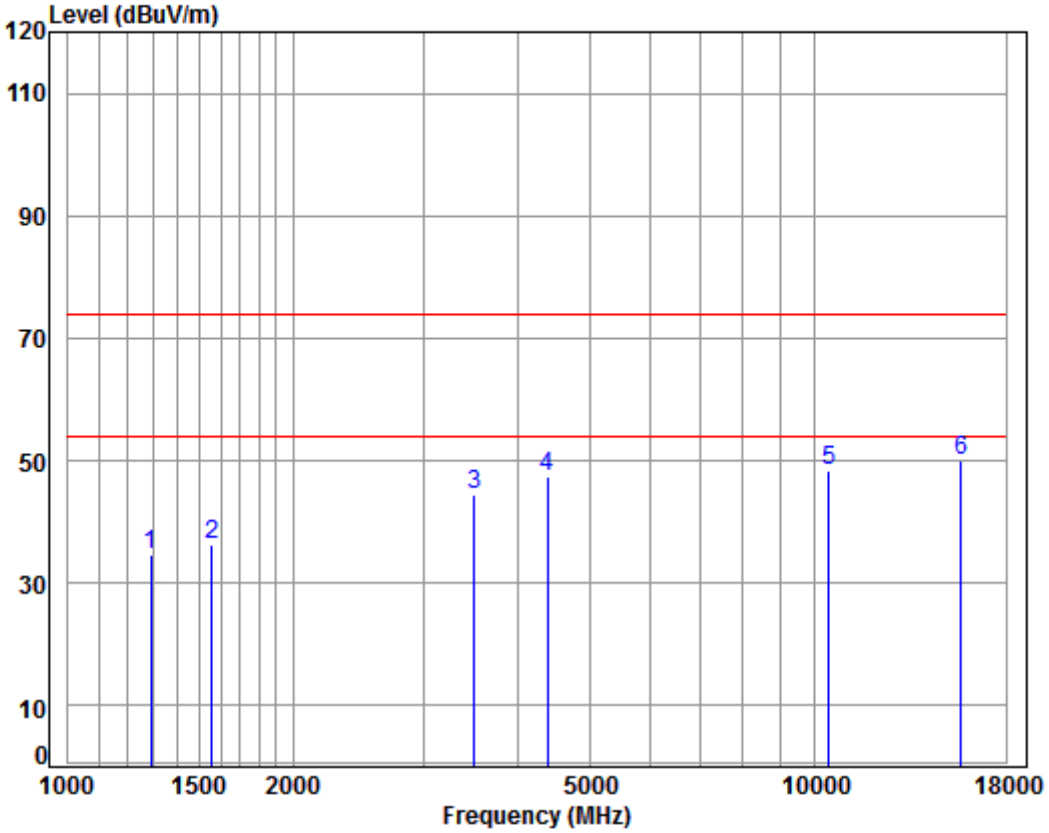
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5220 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.71	24.84	38.06	42.35	33.84	74.00	-40.16	peak
2	1468.761	5.38	25.68	38.04	43.65	36.67	74.00	-37.33	peak
3	3318.471	6.29	31.89	37.94	43.76	44.00	74.00	-30.00	peak
4	4443.453	7.50	33.60	38.24	44.66	47.52	74.00	-26.48	peak
5	10440.000	11.25	37.16	35.13	35.94	49.22	74.00	-24.78	peak
6	pp15660.000	14.48	41.34	38.17	33.15	50.80	74.00	-23.20	peak

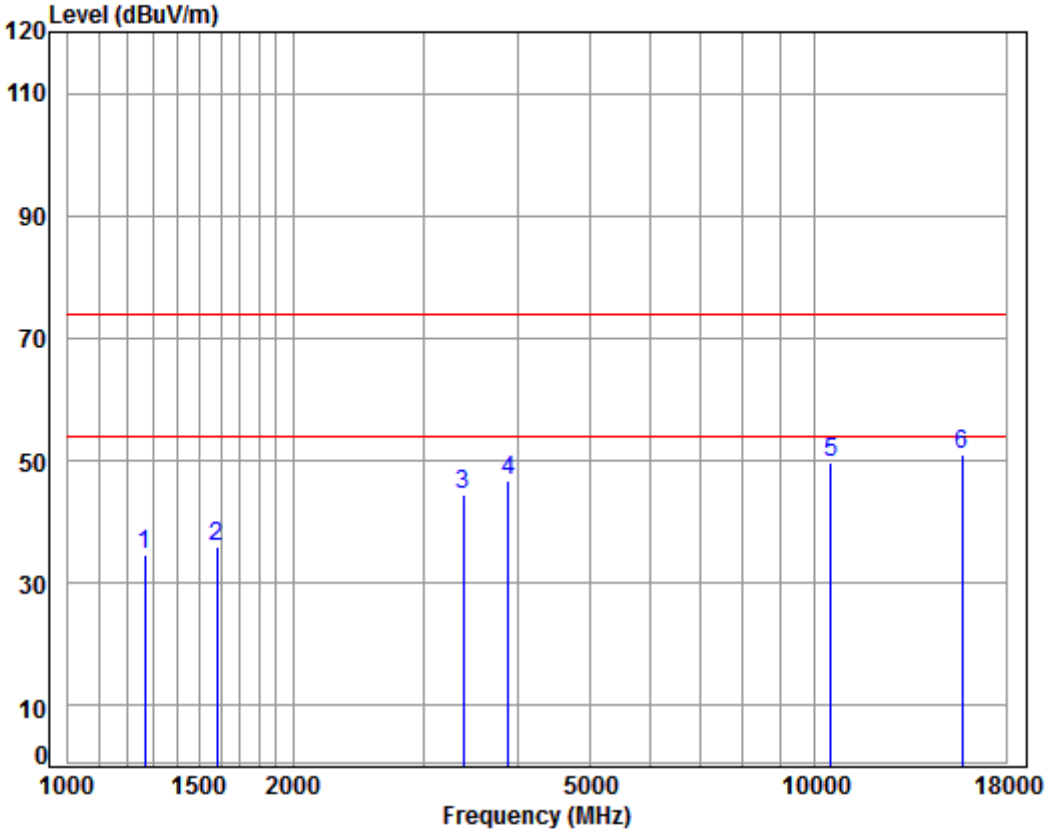
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5220 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.91	38.06	43.06	34.67	74.00	-39.33	peak
2	1560.673	5.40	26.08	38.04	42.97	36.41	74.00	-37.59	peak
3	3495.691	6.46	32.19	37.95	43.65	44.35	74.00	-29.65	peak
4	4379.699	7.43	33.60	38.20	44.56	47.39	74.00	-26.61	peak
5	10440.000	11.25	37.16	35.13	35.01	48.29	74.00	-25.71	peak
6	pp15660.000	14.48	41.34	38.17	32.48	50.13	74.00	-23.87	peak

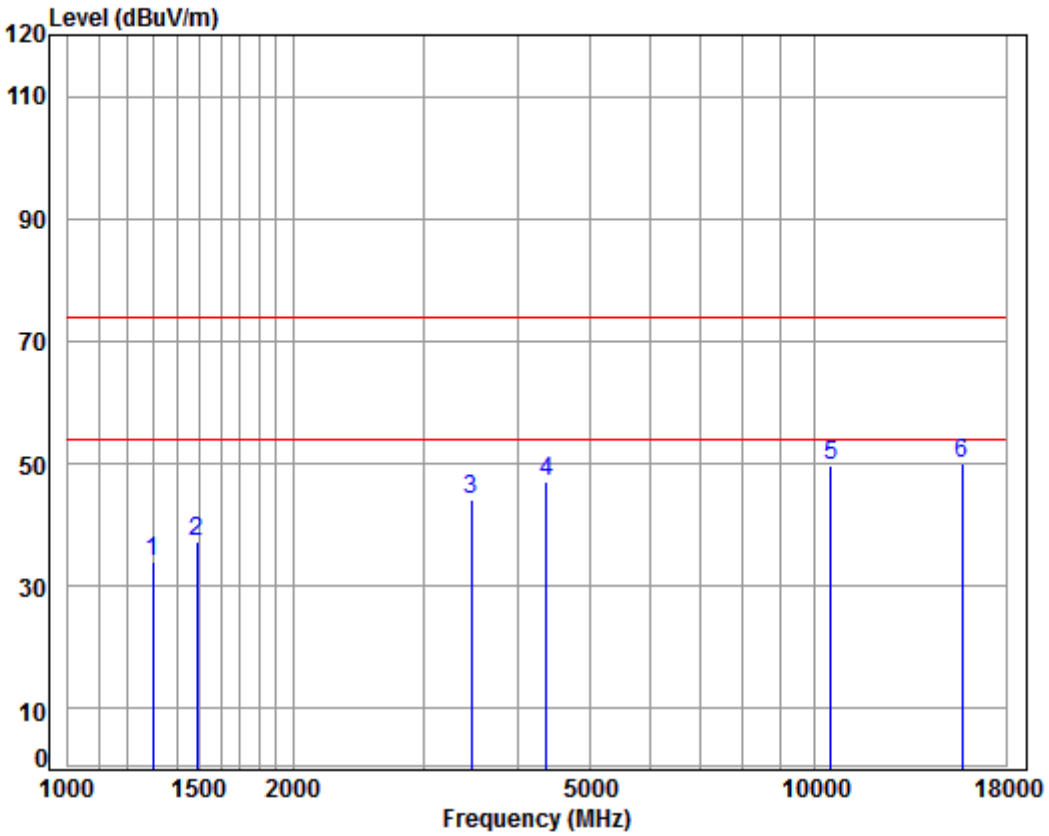
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.68	24.80	38.07	43.34	34.75	74.00	-39.25	peak
2	1583.392	5.37	26.18	38.03	42.30	35.82	74.00	-38.18	peak
3	3386.297	6.36	32.01	37.94	43.98	44.41	74.00	-29.59	peak
4	3890.255	6.87	33.31	37.99	44.68	46.87	74.00	-27.13	peak
5	10480.000	11.28	37.12	35.15	36.37	49.62	74.00	-24.38	peak
6	pp15720.000	14.57	41.31	38.10	33.21	50.99	74.00	-23.01	peak

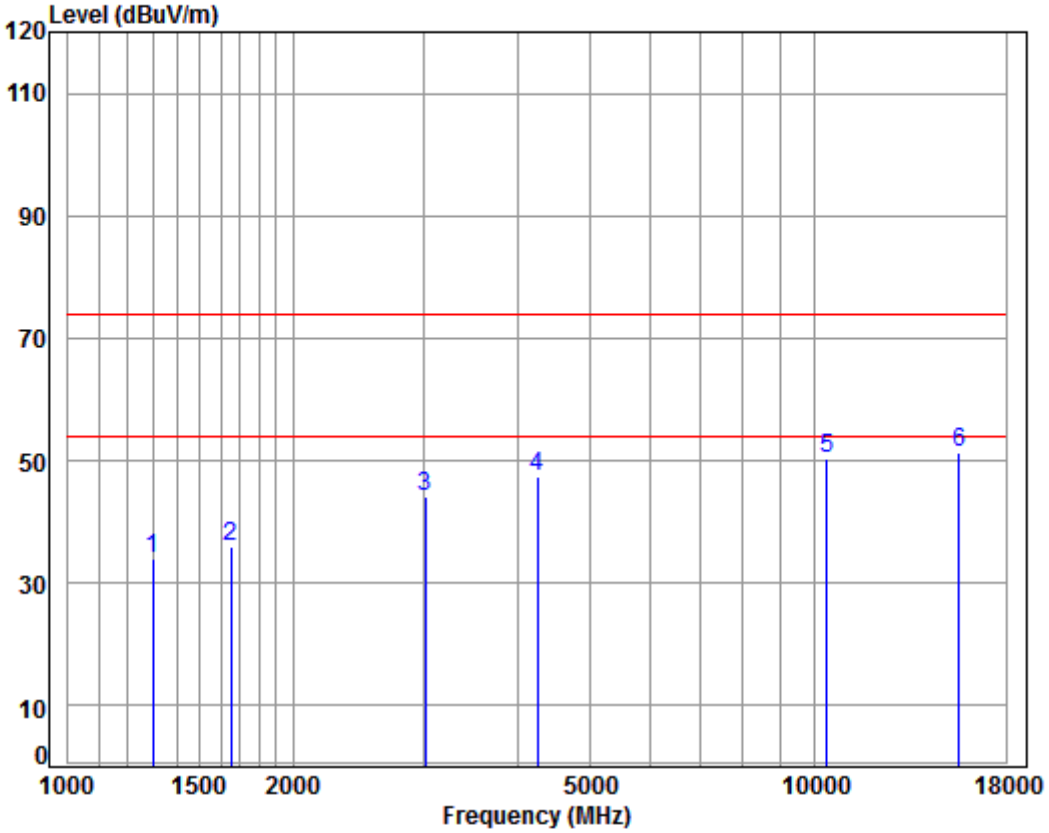
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.80	24.96	38.06	42.14	33.84	74.00	-40.16	peak
2	1485.841	5.43	25.74	38.04	44.12	37.25	74.00	-36.75	peak
3	3465.510	6.43	32.14	37.95	43.44	44.06	74.00	-29.94	peak
4	4367.058	7.41	33.60	38.20	44.29	47.10	74.00	-26.90	peak
5	10480.000	11.28	37.12	35.15	36.33	49.58	74.00	-24.42	peak
6	pp15720.000	14.57	41.31	38.10	32.35	50.13	74.00	-23.87	peak

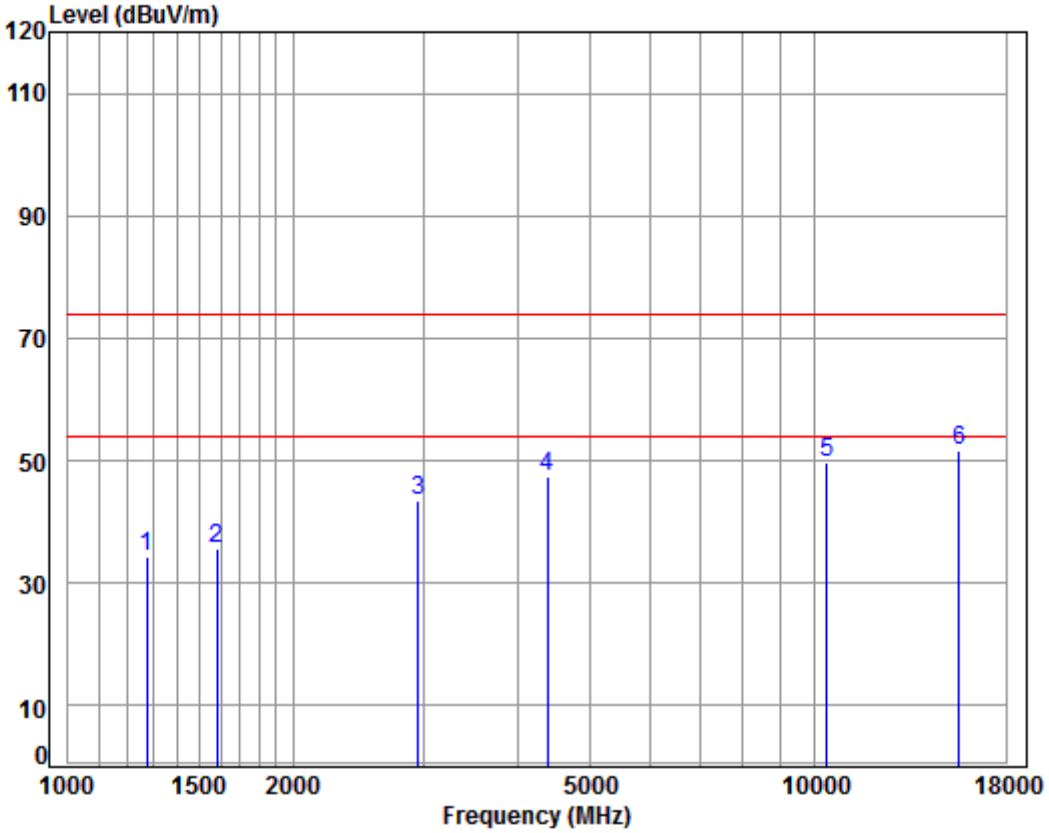
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5190 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	4.79	24.94	38.06	42.37	34.04	74.00	-39.96	peak
2	1653.550	5.28	26.48	38.03	42.39	36.12	74.00	-37.88	peak
3	3007.868	5.99	31.32	37.90	44.57	43.98	74.00	-30.02	peak
4	4254.921	7.28	33.60	38.14	44.65	47.39	74.00	-26.61	peak
5	10380.000	11.21	37.22	35.10	37.00	50.33	74.00	-23.67	peak
6	pp15570.000	14.35	41.37	38.26	33.88	51.34	74.00	-22.66	peak

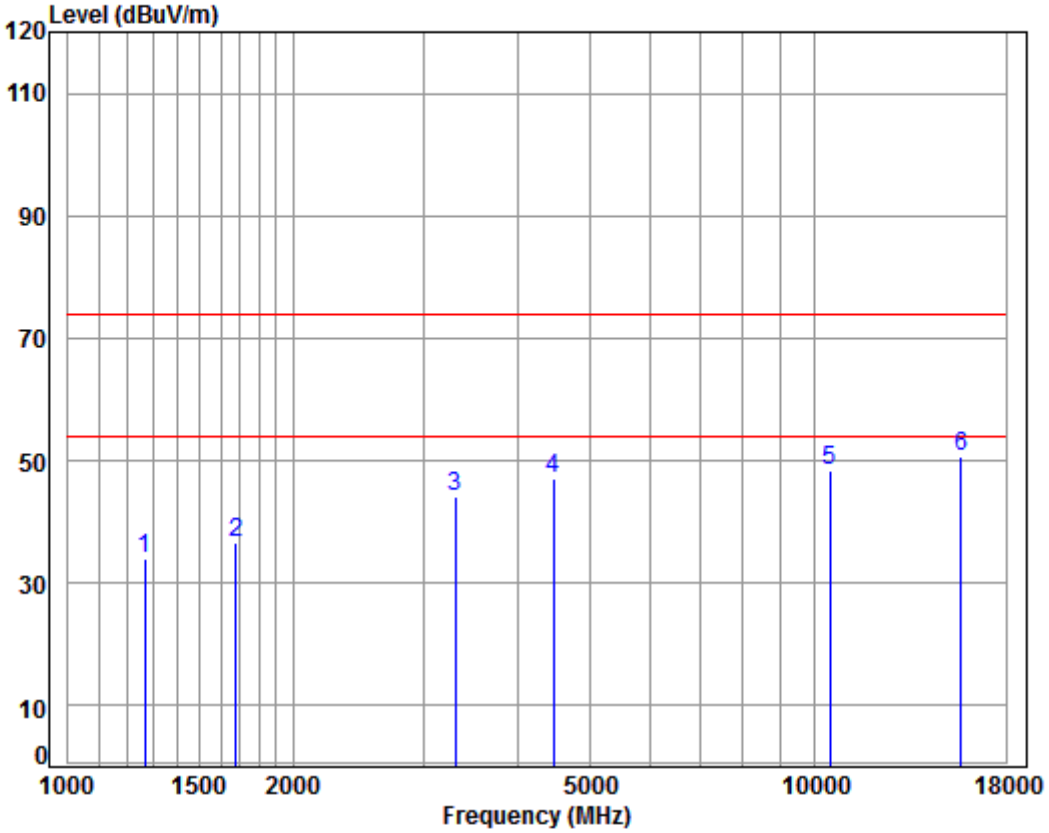
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5190 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.71	24.84	38.06	42.94	34.43	74.00	-39.57	peak
2	1583.392	5.37	26.18	38.03	42.22	35.74	74.00	-38.26	peak
3	2939.115	5.94	31.09	37.91	44.24	43.36	74.00	-30.64	peak
4	4379.699	7.43	33.60	38.20	44.52	47.35	74.00	-26.65	peak
5	10380.000	11.21	37.22	35.10	36.35	49.68	74.00	-24.32	peak
6	pp15570.000	14.35	41.37	38.26	34.05	51.51	74.00	-22.49	peak

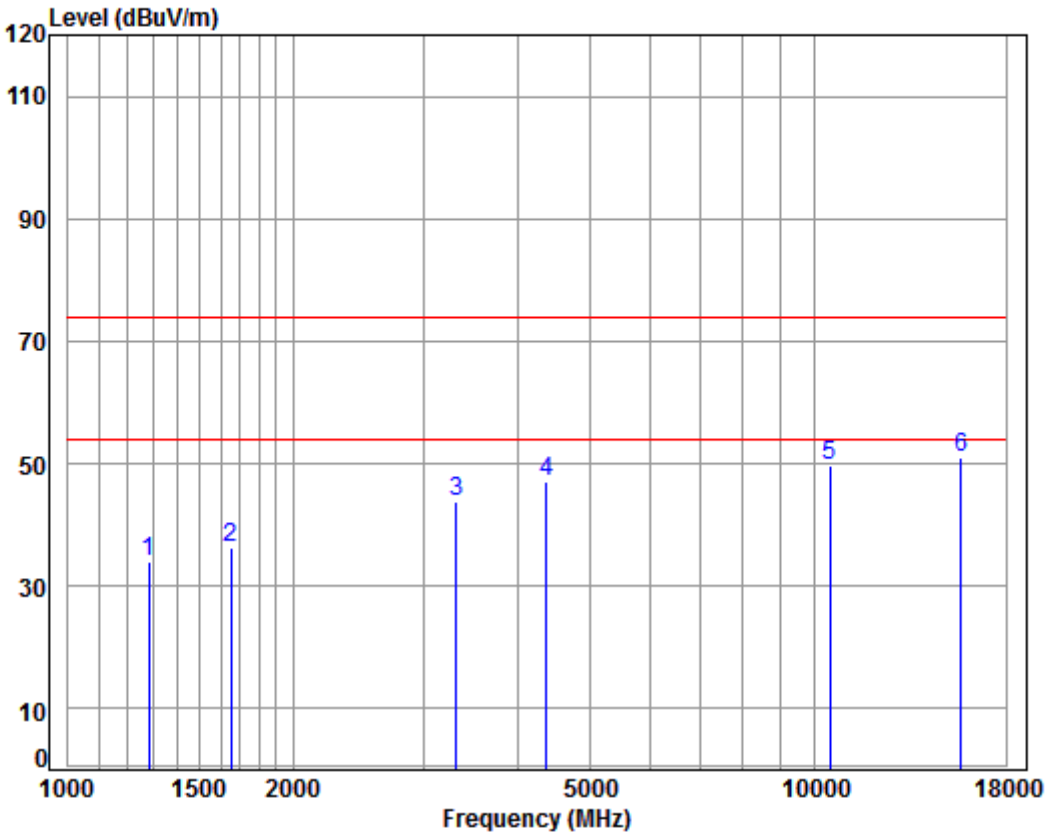
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5230 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	4.68	24.80	38.07	42.50	33.91	74.00	-40.09	peak
2	1677.621	5.25	26.58	38.03	42.72	36.52	74.00	-37.48	peak
3	3299.344	6.28	31.86	37.93	43.80	44.01	74.00	-29.99	peak
4	4469.214	7.53	33.60	38.25	44.36	47.24	74.00	-26.76	peak
5	10460.000	11.26	37.14	35.14	35.05	48.31	74.00	-25.69	peak
6	pp15690.000	14.53	41.32	38.13	32.89	50.61	74.00	-23.39	peak

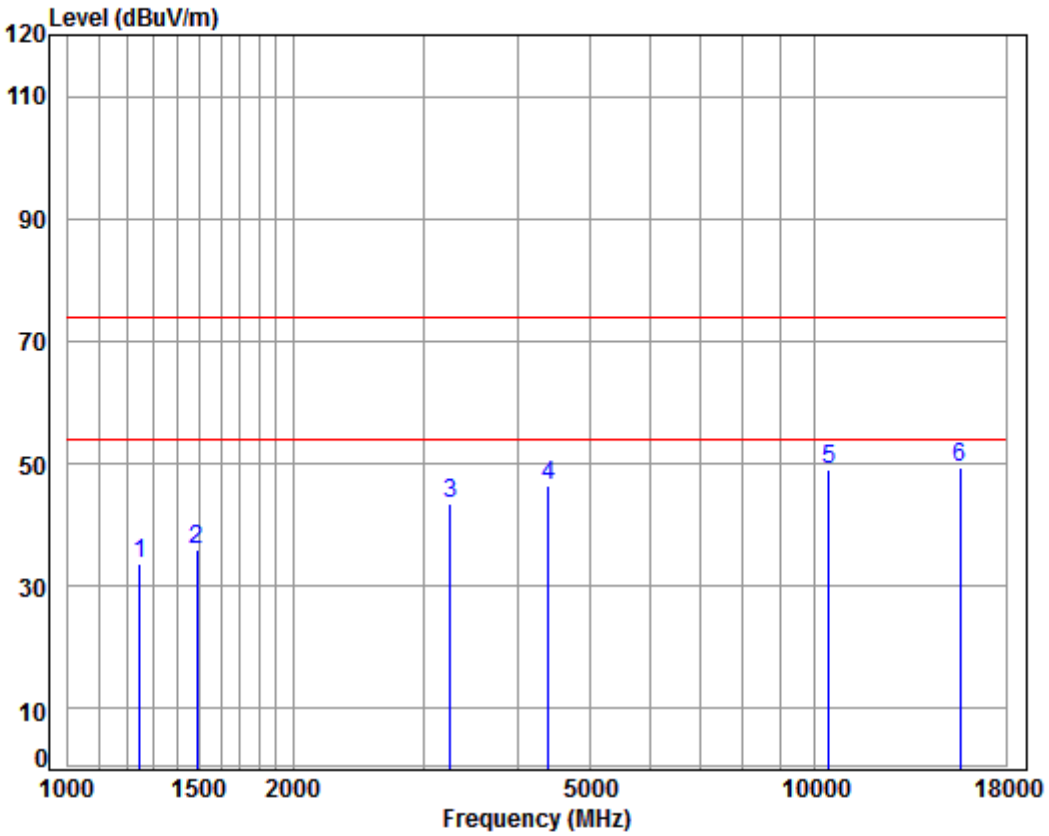
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5230 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	4.73	24.87	38.06	42.34	33.88	74.00	-40.12	peak
2	1653.550	5.28	26.48	38.03	42.70	36.43	74.00	-37.57	peak
3	3308.894	6.29	31.87	37.93	43.44	43.67	74.00	-30.33	peak
4	4367.058	7.41	33.60	38.20	44.13	46.94	74.00	-27.06	peak
5	10460.000	11.26	37.14	35.14	36.32	49.58	74.00	-24.42	peak
6	pp15690.000	14.53	41.32	38.13	33.18	50.90	74.00	-23.10	peak

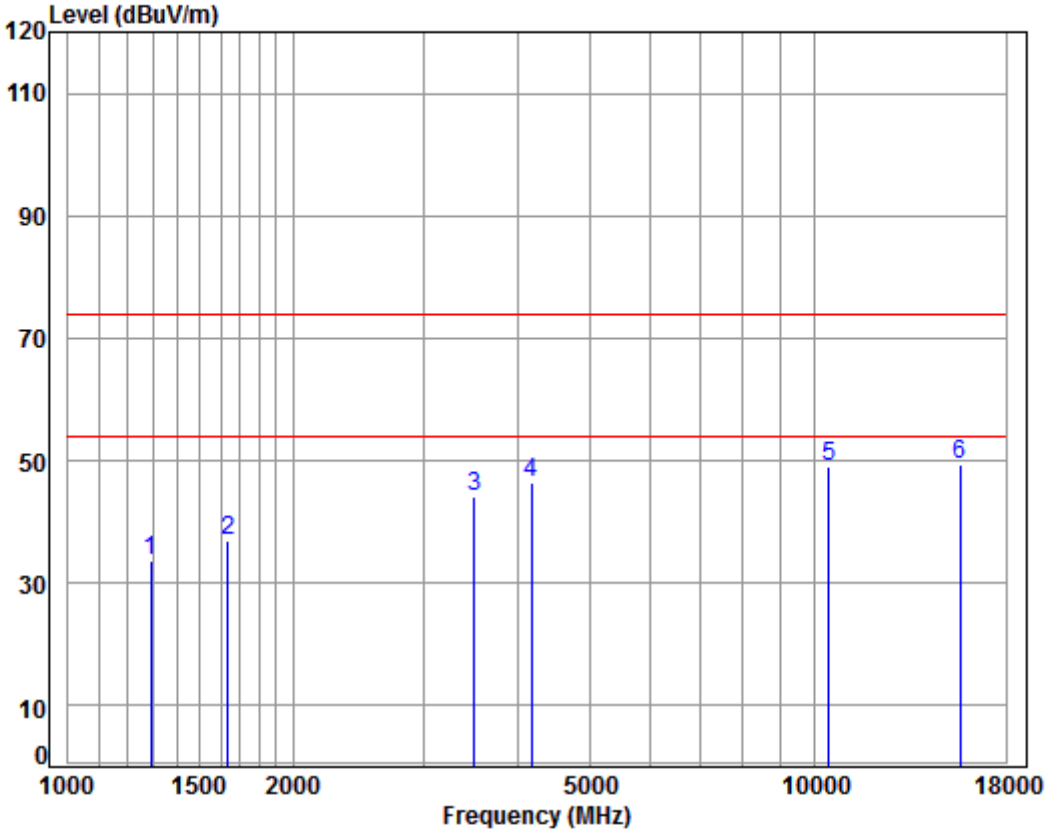
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5210 TX RSE
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	4.61	24.72	38.07	42.41	33.67	74.00	-40.33	peak
2	1490.142	5.45	25.76	38.04	42.82	35.99	74.00	-38.01	peak
3	3252.005	6.23	31.77	37.93	43.27	43.34	74.00	-30.66	peak
4	4392.376	7.44	33.60	38.21	43.65	46.48	74.00	-27.52	peak
5	10420.000	11.24	37.18	35.12	35.73	49.03	74.00	-24.97	peak
6	pp15630.000	14.44	41.35	38.20	31.70	49.29	74.00	-24.71	peak

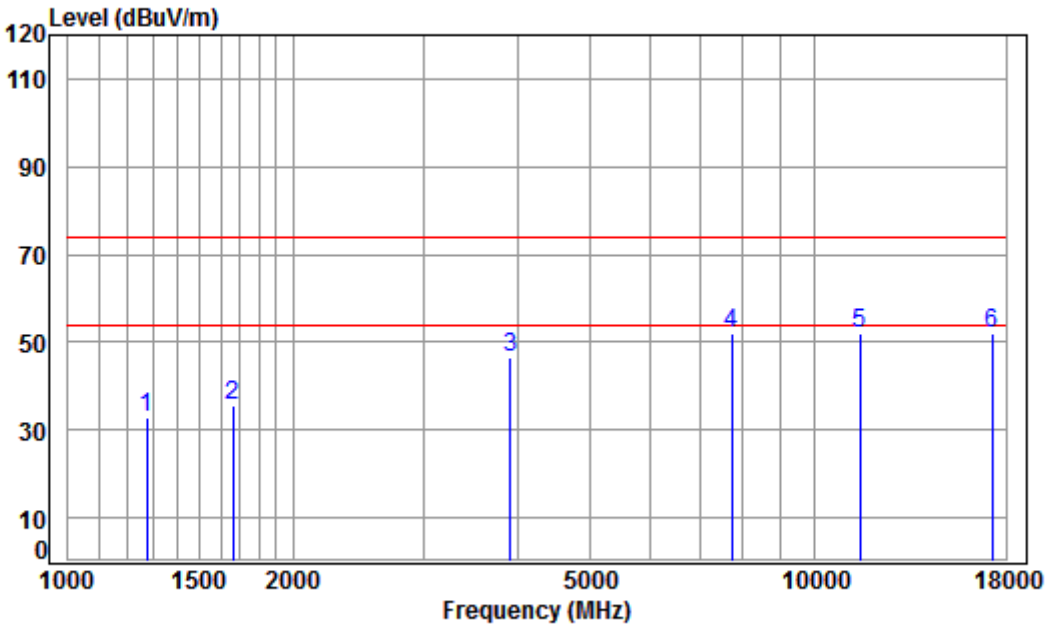
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5210 TX RSE
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	4.76	24.91	38.06	42.12	33.73	74.00	-40.27	peak
2	1639.274	5.30	26.42	38.03	43.42	37.11	74.00	-36.89	peak
3	3495.691	6.46	32.19	37.95	43.40	44.10	74.00	-29.90	peak
4	4169.698	7.18	33.60	38.09	43.90	46.59	74.00	-27.41	peak
5	10420.000	11.24	37.18	35.12	35.70	49.00	74.00	-25.00	peak
6	pp15630.000	14.44	41.35	38.20	31.92	49.51	74.00	-24.49	peak

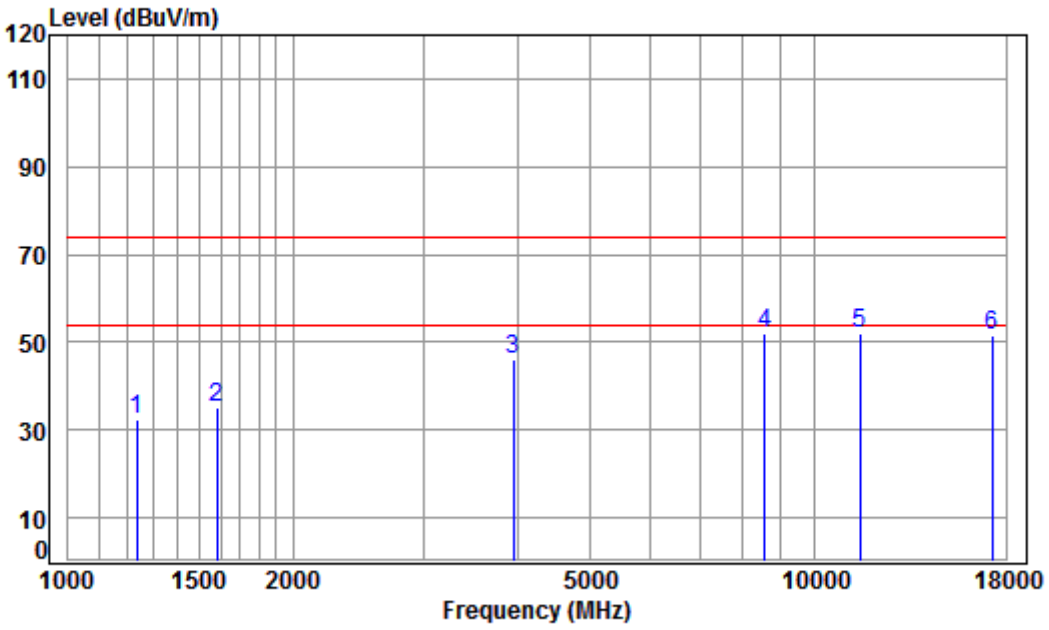
Mode:c; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5745 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.19	24.84	38.06	41.82	32.79	74.00	-41.21	peak
2	1663.137	4.66	26.52	38.03	42.48	35.63	74.00	-38.37	peak
3	3912.809	6.63	33.37	37.99	44.36	46.37	74.00	-27.63	peak
4 pp	7739.857	9.94	36.45	36.62	42.44	52.21	74.00	-21.79	peak
5	11490.000	12.33	38.09	36.00	37.42	51.84	74.00	-22.16	peak
6	17235.000	17.60	43.08	36.18	27.48	51.98	74.00	-22.02	peak

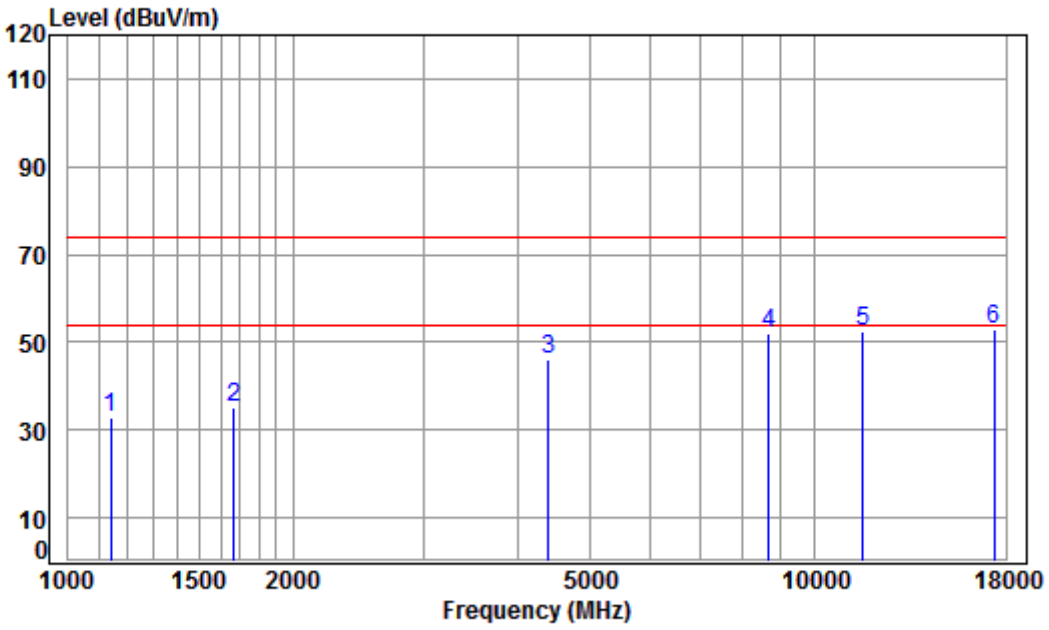
Mode:c; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5745 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	4.13	24.65	38.07	41.67	32.38	74.00	-41.62	peak
2	1583.392	4.57	26.18	38.03	42.45	35.17	74.00	-38.83	peak
3	3946.885	6.66	33.46	38.00	44.06	46.18	74.00	-27.82	peak
4 pp	8563.818	10.36	36.08	35.82	41.49	52.11	74.00	-21.89	peak
5	11490.000	12.33	38.09	36.00	37.53	51.95	74.00	-22.05	peak
6	17235.000	17.60	43.08	36.18	27.07	51.57	74.00	-22.43	peak

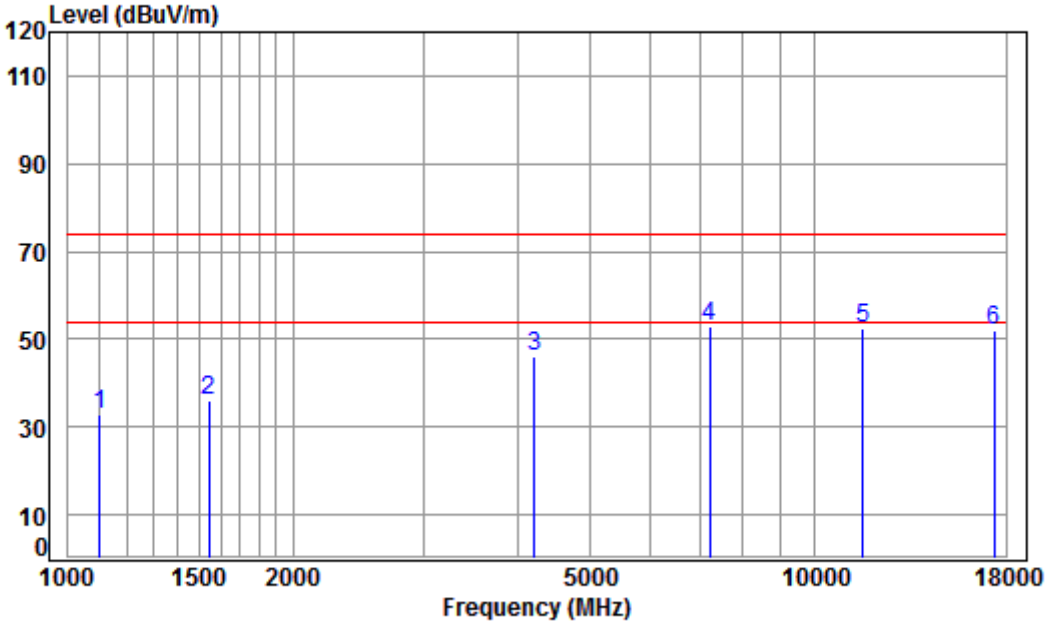
Mode:c; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5785 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	3.99	24.19	38.08	42.53	32.63	74.00	-41.37	peak
2	1667.951	4.67	26.54	38.03	41.91	35.09	74.00	-38.91	peak
3	4392.376	7.16	33.60	38.21	43.70	46.25	74.00	-27.75	peak
4	8663.404	10.43	36.20	35.72	41.04	51.95	74.00	-22.05	peak
5	11570.000	12.34	38.17	36.10	38.27	52.68	74.00	-21.32	peak
6	pp17355.000	17.93	43.23	36.12	27.71	52.75	74.00	-21.25	peak

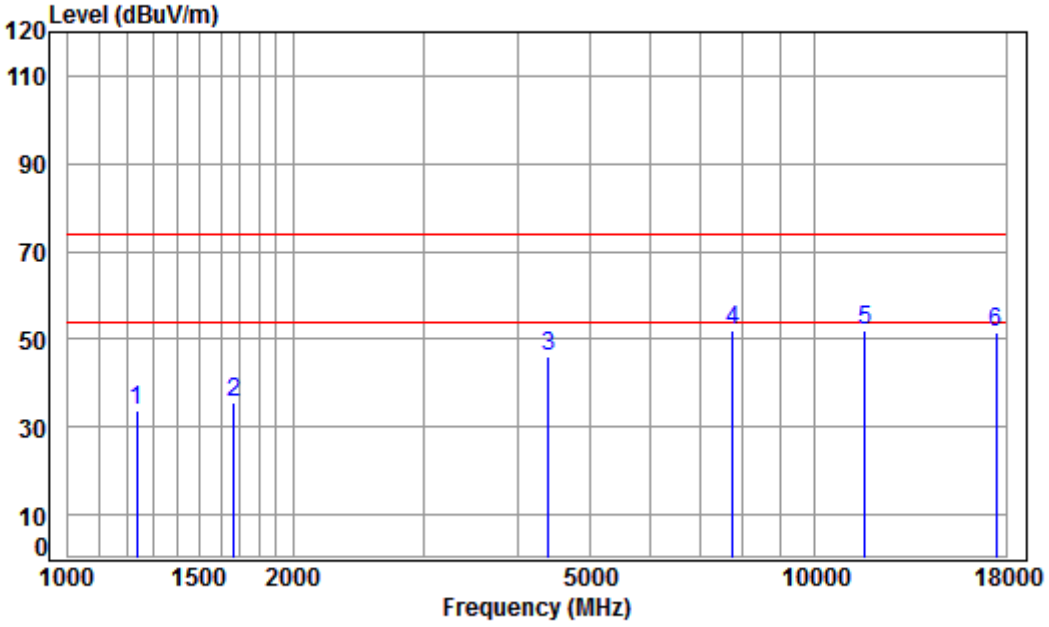
Mode:c; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5785 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.264	3.93	23.98	38.09	43.03	32.85	74.00	-41.15	peak
2	1542.733	4.52	26.00	38.04	43.50	35.98	74.00	-38.02	peak
3	4206.011	6.95	33.60	38.11	43.85	46.29	74.00	-27.71	peak
4 pp	7221.150	9.66	36.41	37.09	43.81	52.79	74.00	-21.21	peak
5	11570.000	12.34	38.17	36.10	38.18	52.59	74.00	-21.41	peak
6	17355.000	17.93	43.23	36.12	27.19	52.23	74.00	-21.77	peak

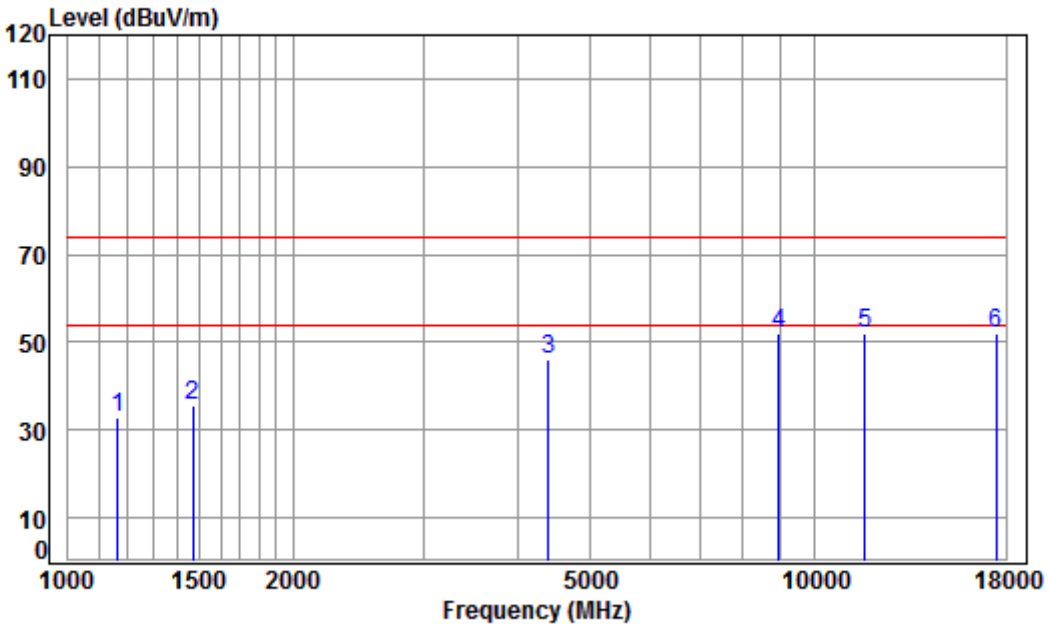
Mode:c; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5825 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	4.13	24.65	38.07	43.12	33.83	74.00	-40.17	peak
2	1667.951	4.67	26.54	38.03	42.21	35.39	74.00	-38.61	peak
3	4392.376	7.16	33.60	38.21	43.51	46.06	74.00	-27.94	peak
4 pp	7762.260	9.95	36.46	36.60	42.14	51.95	74.00	-22.05	peak
5	11650.000	12.35	38.25	36.19	37.53	51.94	74.00	-22.06	peak
6	17475.000	18.25	43.37	36.06	26.00	51.56	74.00	-22.44	peak

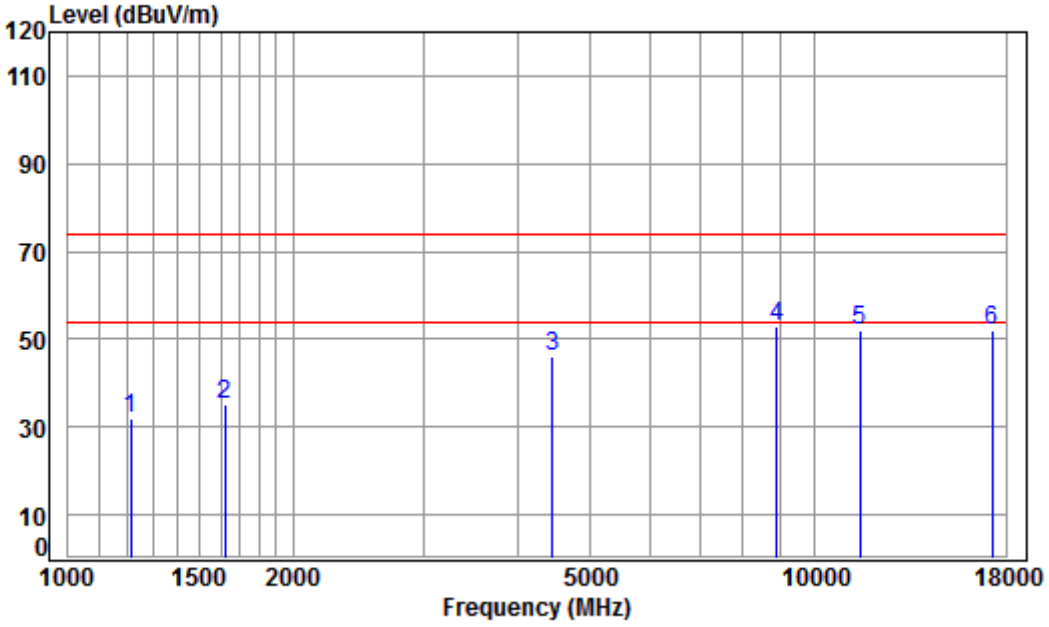
Mode:c; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5825 TX RSE
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	4.03	24.31	38.08	42.52	32.78	74.00	-41.22	peak
2	1468.761	4.43	25.68	38.04	43.73	35.80	74.00	-38.20	peak
3	4392.376	7.16	33.60	38.21	43.68	46.23	74.00	-27.77	peak
4 pp	8943.274	10.64	36.53	35.45	40.42	52.14	74.00	-21.86	peak
5	11650.000	12.35	38.25	36.19	37.67	52.08	74.00	-21.92	peak
6	17475.000	18.25	43.37	36.06	26.43	51.99	74.00	-22.01	peak

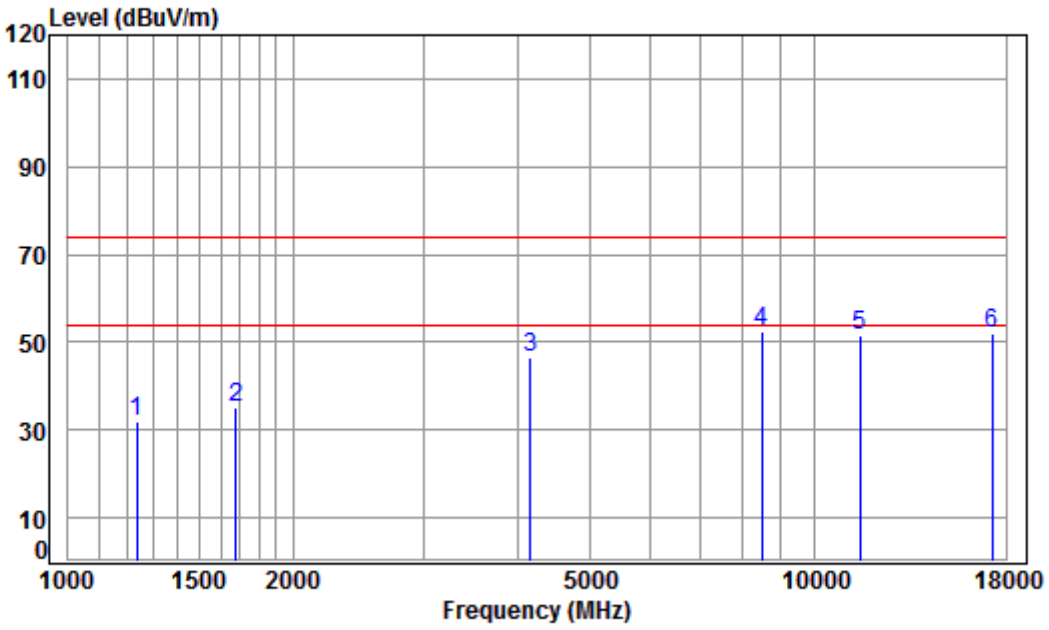
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5745 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	4.10	24.55	38.07	41.40	31.98	74.00	-42.02	peak
2	1620.431	4.61	26.34	38.03	42.43	35.35	74.00	-38.65	peak
3	4456.315	7.23	33.60	38.24	43.64	46.23	74.00	-27.77	peak
4 pp	8891.725	10.60	36.47	35.50	41.41	52.98	74.00	-21.02	peak
5	11490.000	12.33	38.09	36.00	37.75	52.17	74.00	-21.83	peak
6	17235.000	17.60	43.08	36.18	27.54	52.04	74.00	-21.96	peak

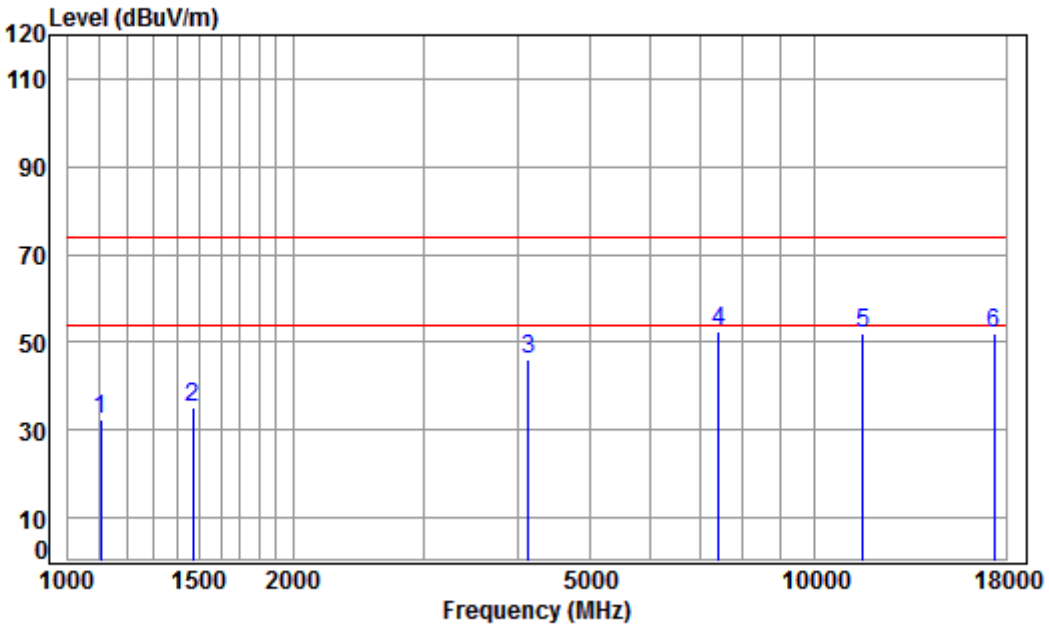
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5745 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	4.13	24.65	38.07	41.33	32.04	74.00	-41.96	peak
2	1677.621	4.68	26.58	38.03	41.89	35.12	74.00	-38.88	peak
3	4157.664	6.89	33.60	38.09	44.28	46.68	74.00	-27.32	peak
4 pp	8489.882	10.30	36.01	35.90	41.91	52.32	74.00	-21.68	peak
5	11490.000	12.33	38.09	36.00	37.27	51.69	74.00	-22.31	peak
6	17235.000	17.60	43.08	36.18	27.50	52.00	74.00	-22.00	peak

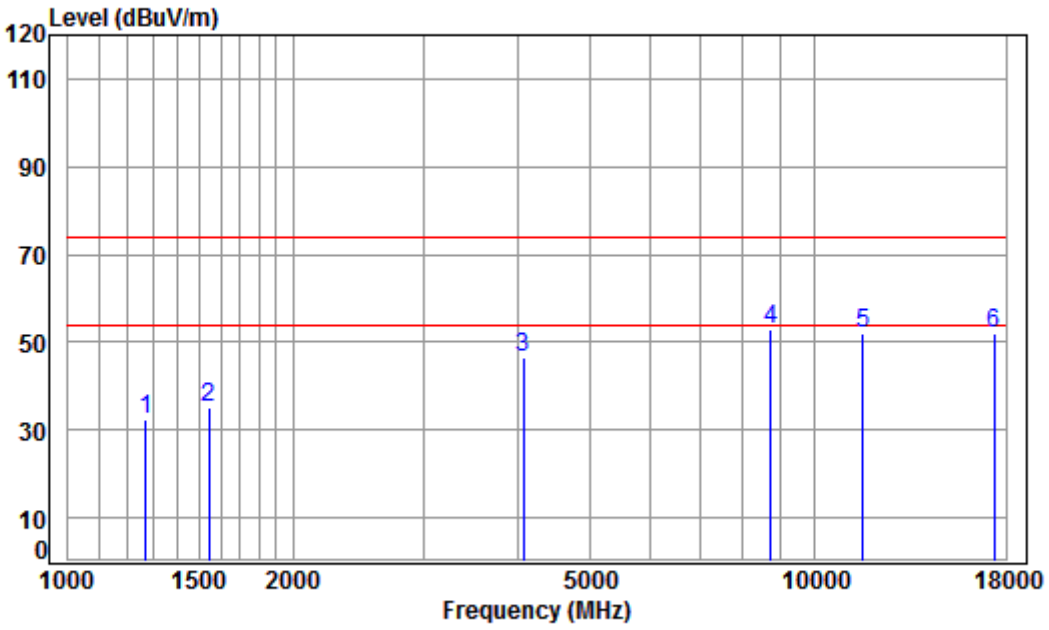
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5785 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1106.457	3.94	24.00	38.09	42.54	32.39	74.00	-41.61	peak
2	1468.761	4.43	25.68	38.04	43.06	35.13	74.00	-38.87	peak
3	4133.699	6.86	33.60	38.07	43.66	46.05	74.00	-27.95	peak
4 pp	7432.914	9.81	36.33	36.90	43.20	52.44	74.00	-21.56	peak
5	11570.000	12.34	38.17	36.10	37.79	52.20	74.00	-21.80	peak
6	17355.000	17.93	43.23	36.12	26.77	51.81	74.00	-22.19	peak

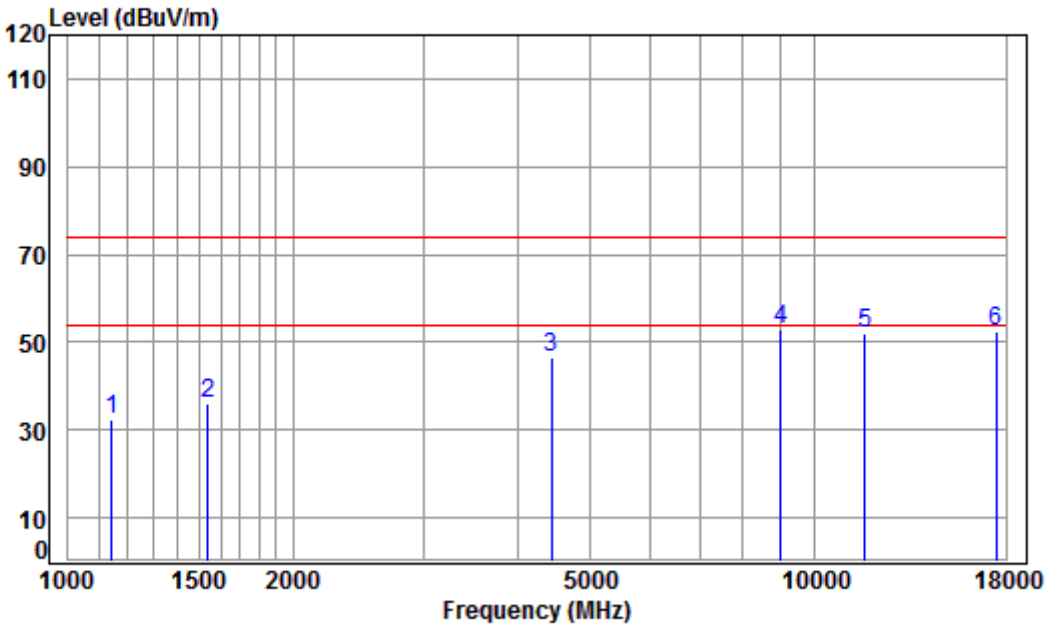
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5785 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	4.18	24.82	38.07	41.43	32.36	74.00	-41.64	peak
2	1542.733	4.52	26.00	38.04	42.62	35.10	74.00	-38.90	peak
3	4074.388	6.79	33.60	38.04	44.05	46.40	74.00	-27.60	peak
4 pp	8713.630	10.47	36.26	35.67	41.77	52.83	74.00	-21.17	peak
5	11570.000	12.34	38.17	36.10	37.69	52.10	74.00	-21.90	peak
6	17355.000	17.93	43.23	36.12	27.03	52.07	74.00	-21.93	peak

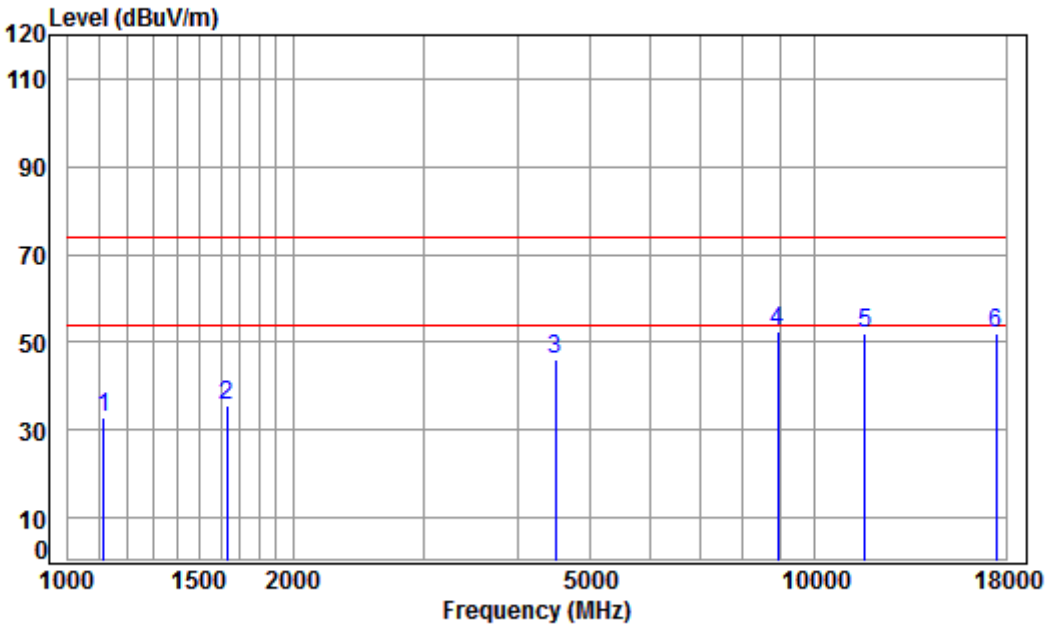
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5825 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.00	24.20	38.08	42.21	32.33	74.00	-41.67	peak
2	1538.281	4.52	25.98	38.04	43.36	35.82	74.00	-38.18	peak
3	4430.628	7.20	33.60	38.23	43.76	46.33	74.00	-27.67	peak
4 pp	8995.123	10.68	36.59	35.40	40.98	52.85	74.00	-21.15	peak
5	11650.000	12.35	38.25	36.19	37.83	52.24	74.00	-21.76	peak
6	17475.000	18.25	43.37	36.06	26.95	52.51	74.00	-21.49	peak

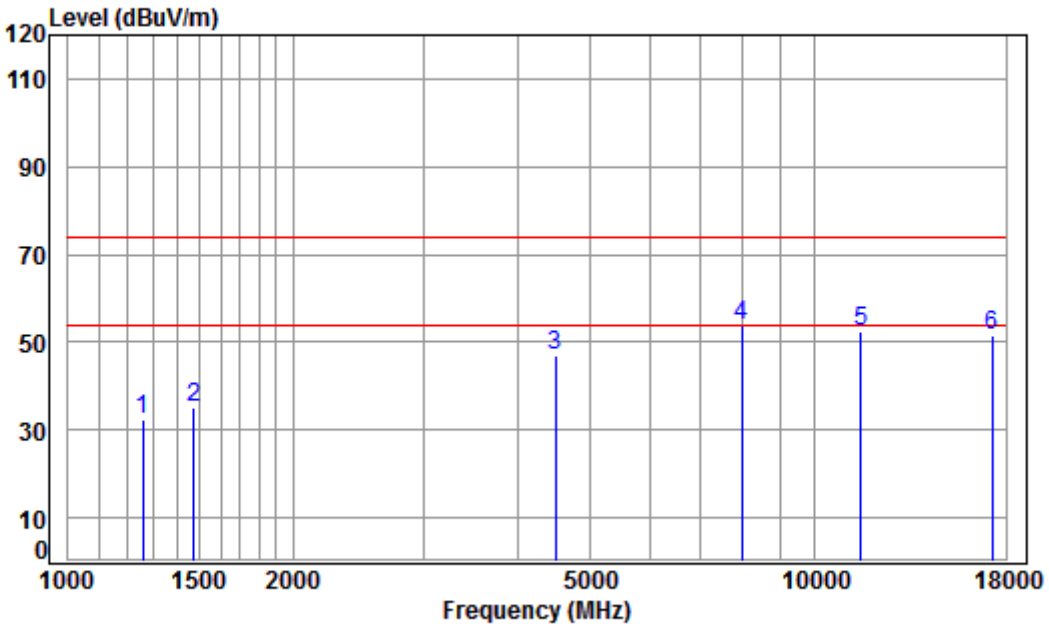
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5825 TX RSE
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	3.95	24.05	38.08	43.02	32.94	74.00	-41.06	peak
2	1629.825	4.63	26.38	38.03	42.51	35.49	74.00	-38.51	peak
3	4495.125	7.27	33.60	38.26	43.64	46.25	74.00	-27.75	peak
4 pp	8917.462	10.62	36.50	35.48	40.88	52.52	74.00	-21.48	peak
5	11650.000	12.35	38.25	36.19	37.53	51.94	74.00	-22.06	peak
6	17475.000	18.25	43.37	36.06	26.30	51.86	74.00	-22.14	peak

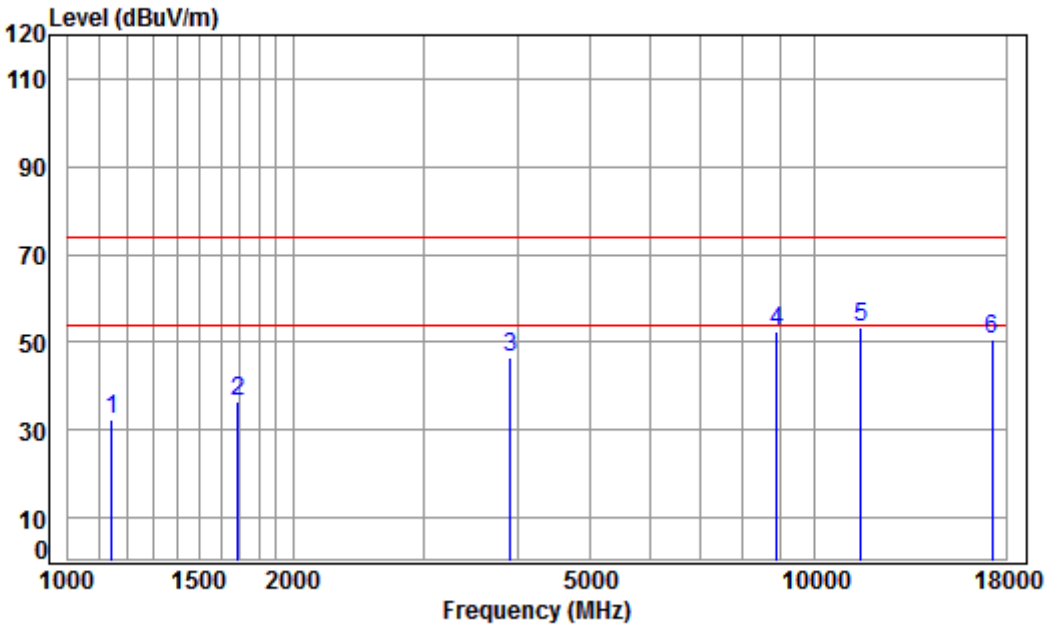
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5755 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	4.16	24.77	38.07	41.58	32.44	74.00	-41.56	peak
2	1473.013	4.44	25.69	38.04	42.90	34.99	74.00	-39.01	peak
3	4495.125	7.27	33.60	38.26	44.51	47.12	74.00	-26.88	peak
4	pp 7966.832	10.03	36.58	36.43	43.78	53.96	74.00	-20.04	peak
5	11510.000	12.33	38.11	36.03	37.95	52.36	74.00	-21.64	peak
6	17265.000	17.68	43.12	36.16	26.91	51.55	74.00	-22.45	peak

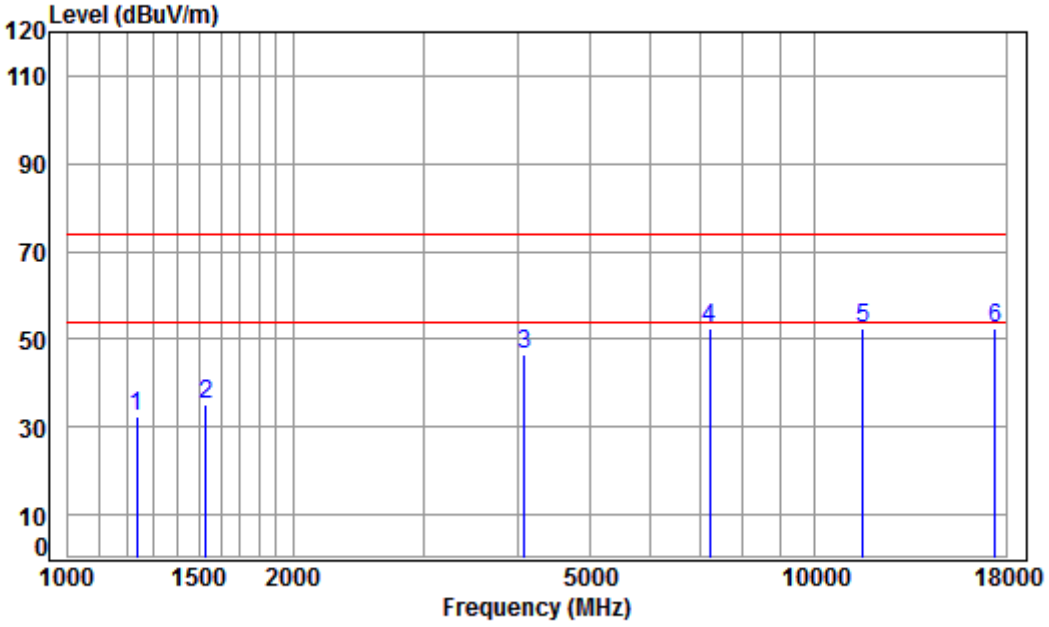
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5755 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.00	24.20	38.08	42.21	32.33	74.00	-41.67	peak
2	1687.347	4.69	26.62	38.02	43.42	36.71	74.00	-37.29	peak
3	3912.809	6.63	33.37	37.99	44.47	46.48	74.00	-27.52	peak
4	8891.725	10.60	36.47	35.50	41.06	52.63	74.00	-21.37	peak
5	pp11510.000	12.33	38.11	36.03	38.75	53.16	74.00	-20.84	peak
6	17265.000	17.68	43.12	36.16	25.79	50.43	74.00	-23.57	peak

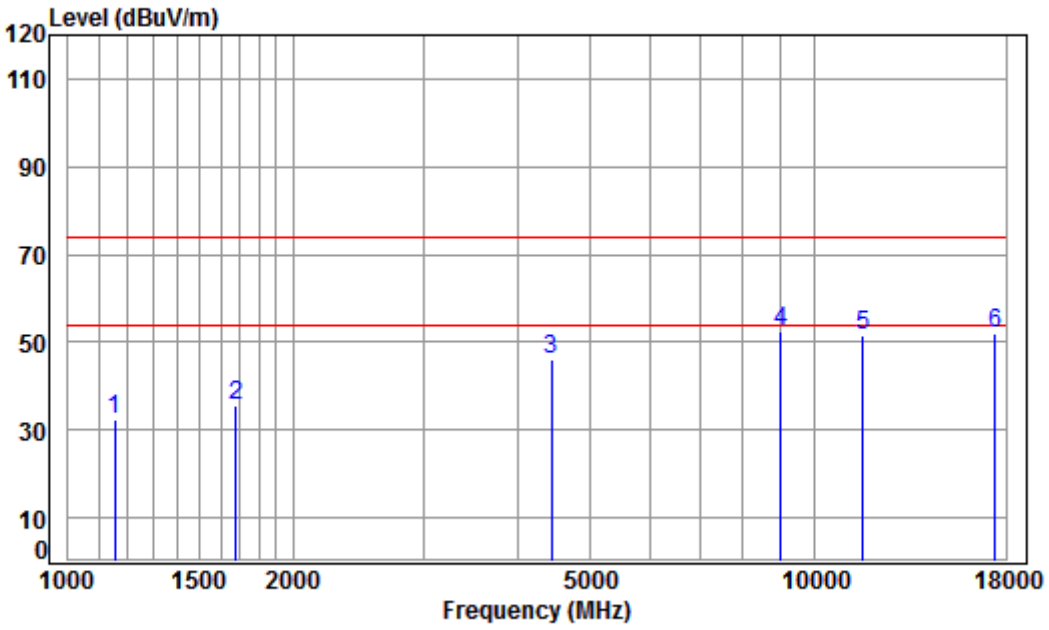
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5795 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	4.13	24.65	38.07	41.52	32.23	74.00	-41.77	peak
2	1529.414	4.51	25.94	38.04	42.79	35.20	74.00	-38.80	peak
3	4086.182	6.80	33.60	38.05	44.10	46.45	74.00	-27.55	peak
4	7221.150	9.66	36.41	37.09	43.45	52.43	74.00	-21.57	peak
5	11590.000	12.34	38.19	36.12	38.18	52.59	74.00	-21.41	peak
6	pp17385.000	18.01	43.26	36.10	27.52	52.69	74.00	-21.31	peak

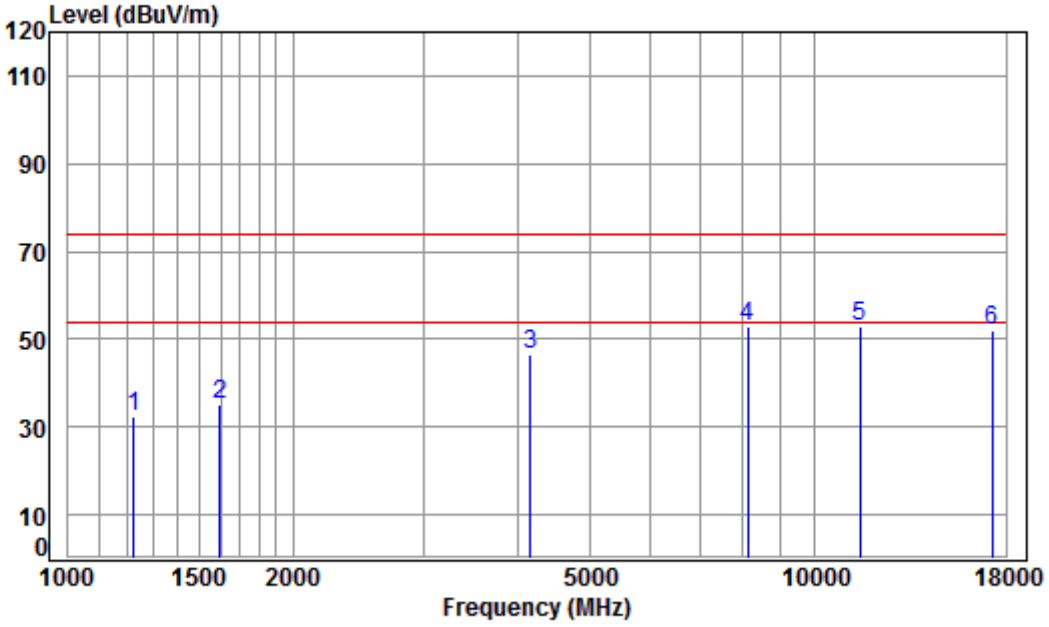
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5795 TX RSE
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	4.01	24.26	38.08	42.18	32.37	74.00	-41.63	peak
2	1677.621	4.68	26.58	38.03	42.33	35.56	74.00	-38.44	peak
3	4443.453	7.22	33.60	38.24	43.56	46.14	74.00	-27.86	peak
4 pp	8995.123	10.68	36.59	35.40	40.48	52.35	74.00	-21.65	peak
5	11590.000	12.34	38.19	36.12	37.34	51.75	74.00	-22.25	peak
6	17385.000	18.01	43.26	36.10	26.93	52.10	74.00	-21.90	peak

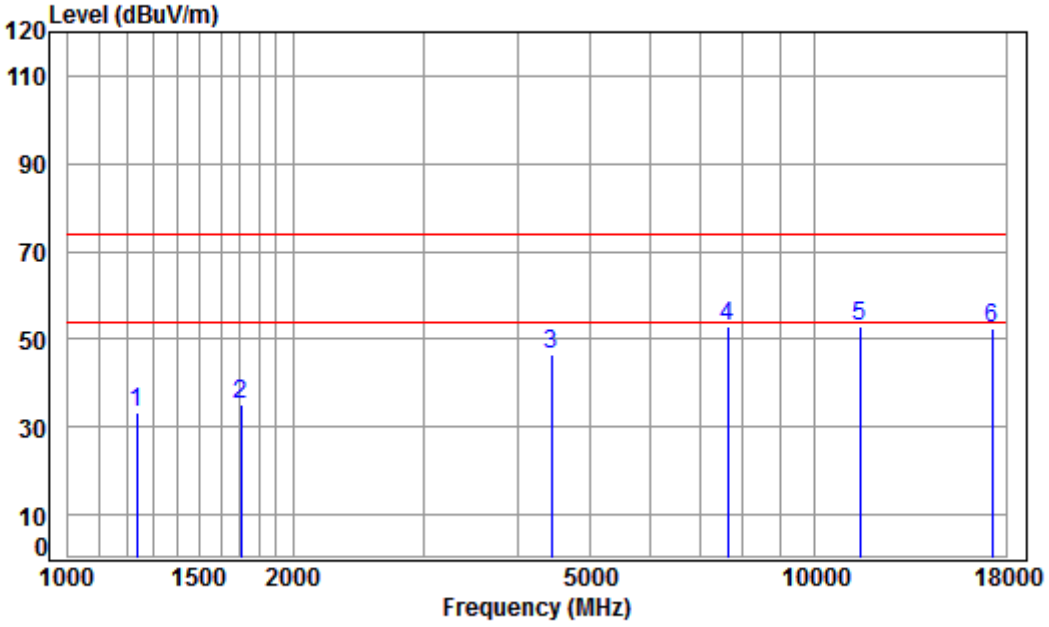
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5745 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	4.11	24.60	38.07	41.59	32.23	74.00	-41.77	peak
2	1597.181	4.59	26.24	38.03	42.36	35.16	74.00	-38.84	peak
3	4157.664	6.89	33.60	38.09	44.04	46.44	74.00	-27.56	peak
4	pp 8129.664	10.11	36.44	36.26	42.46	52.75	74.00	-21.25	peak
5	11490.000	12.33	38.09	36.00	38.30	52.72	74.00	-21.28	peak
6	17235.000	17.60	43.08	36.18	27.39	51.89	74.00	-22.11	peak

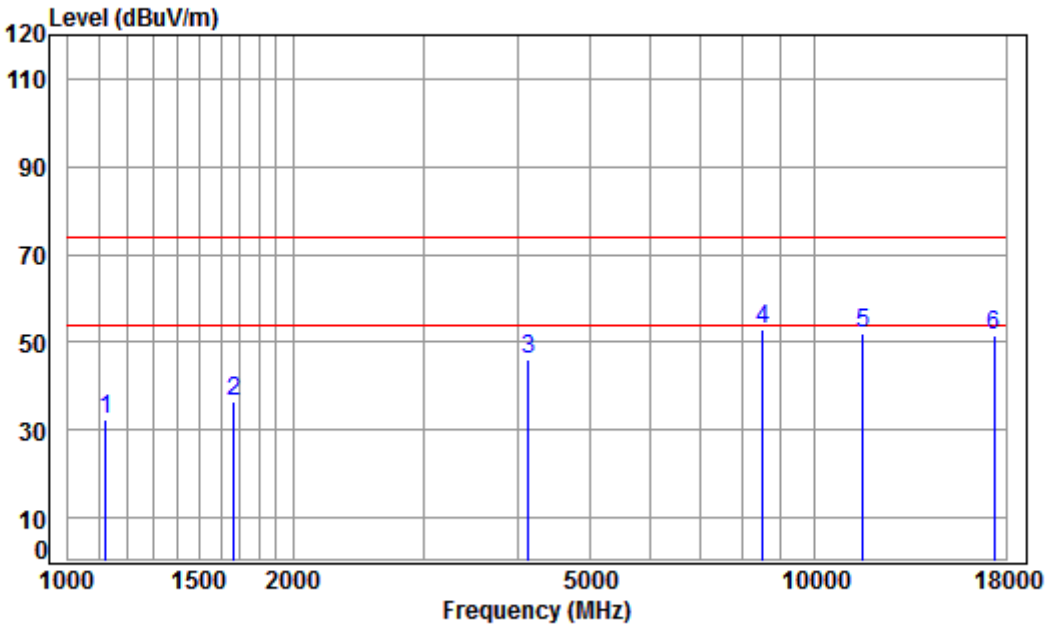
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5745 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	4.13	24.65	38.07	42.65	33.36	74.00	-40.64	peak
2	1702.042	4.71	26.68	38.02	41.69	35.06	74.00	-38.94	peak
3	4443.453	7.22	33.60	38.24	43.92	46.50	74.00	-27.50	peak
4	7628.806	9.90	36.38	36.72	43.25	52.81	74.00	-21.19	peak
5	pp11490.000	12.33	38.09	36.00	38.68	53.10	74.00	-20.90	peak
6	17235.000	17.60	43.08	36.18	27.94	52.44	74.00	-21.56	peak

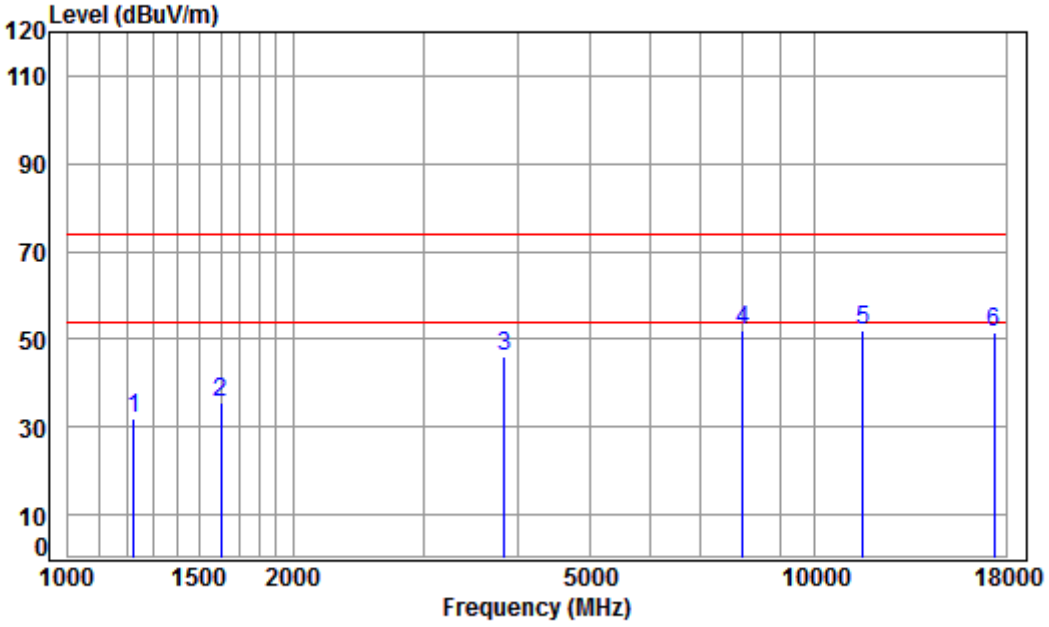
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5785 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.563	3.96	24.08	38.08	42.21	32.17	74.00	-41.83	peak
2	1667.951	4.67	26.54	38.03	43.31	36.49	74.00	-37.51	peak
3	4133.699	6.86	33.60	38.07	43.61	46.00	74.00	-28.00	peak
4	pp 8514.456	10.32	36.02	35.87	42.39	52.86	74.00	-21.14	peak
5	11570.000	12.34	38.17	36.10	37.69	52.10	74.00	-21.90	peak
6	17355.000	17.93	43.23	36.12	26.62	51.66	74.00	-22.34	peak

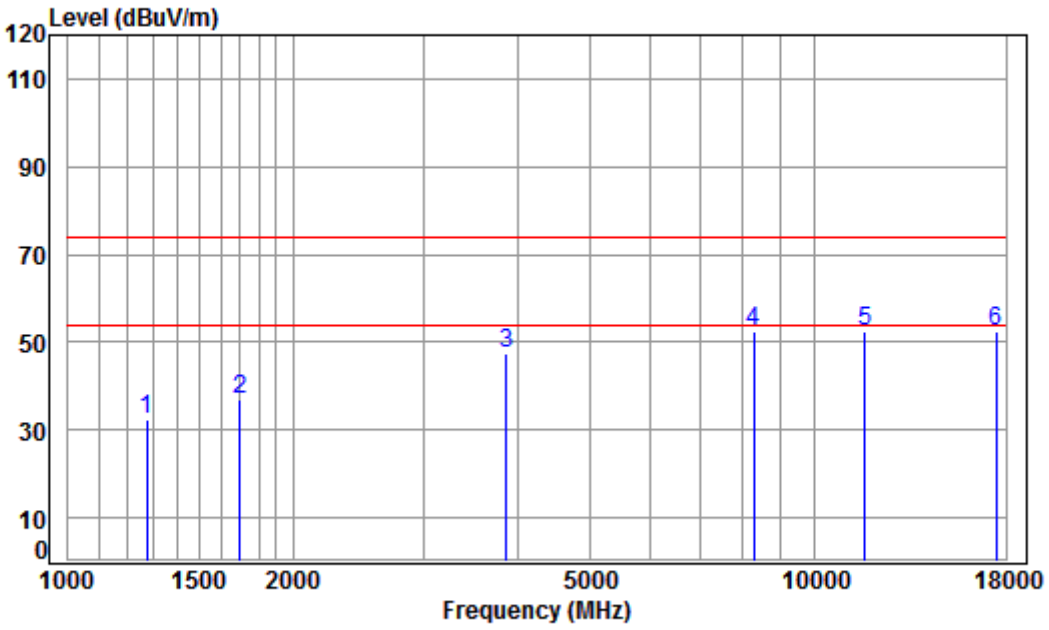
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5785 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	4.11	24.60	38.07	41.47	32.11	74.00	-41.89	peak
2	1601.804	4.59	26.26	38.03	42.60	35.42	74.00	-38.58	peak
3	3834.438	6.57	33.16	37.99	44.20	45.94	74.00	-28.06	peak
4 pp	7989.893	10.04	36.59	36.41	41.88	52.10	74.00	-21.90	peak
5	11570.000	12.34	38.17	36.10	37.56	51.97	74.00	-22.03	peak
6	17355.000	17.93	43.23	36.12	26.57	51.61	74.00	-22.39	peak

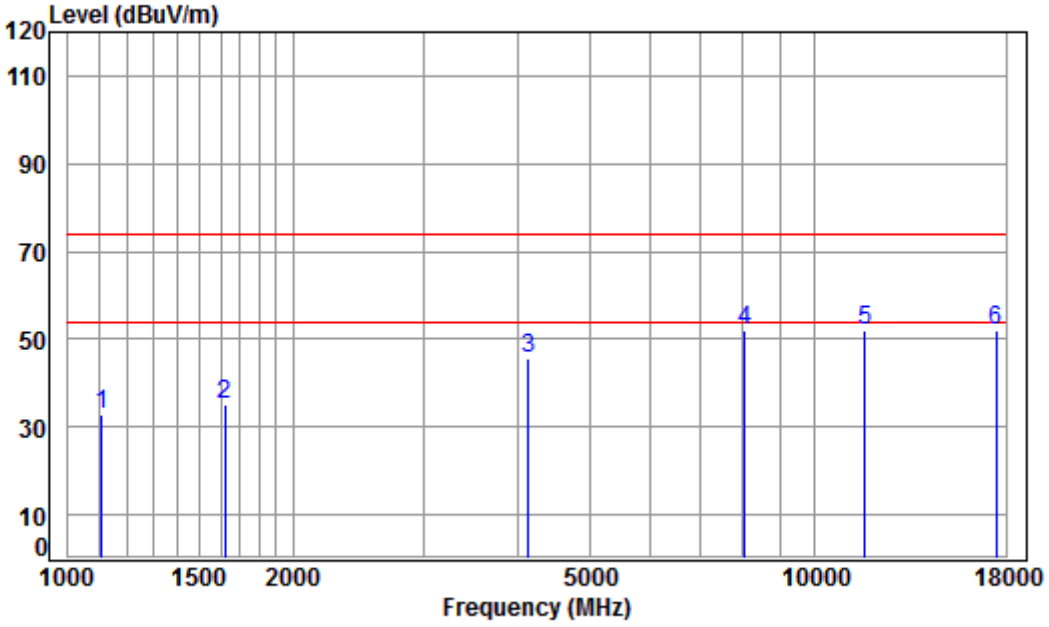
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5825 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	4.19	24.84	38.06	41.29	32.26	74.00	-41.74	peak
2	1697.129	4.70	26.66	38.02	43.39	36.73	74.00	-37.27	peak
3	3856.668	6.59	33.22	37.99	45.44	47.26	74.00	-26.74	peak
4	pp 8271.880	10.19	36.27	36.12	42.04	52.38	74.00	-21.62	peak
5	11650.000	12.35	38.25	36.19	37.84	52.25	74.00	-21.75	peak
6	17475.000	18.25	43.37	36.06	26.73	52.29	74.00	-21.71	peak

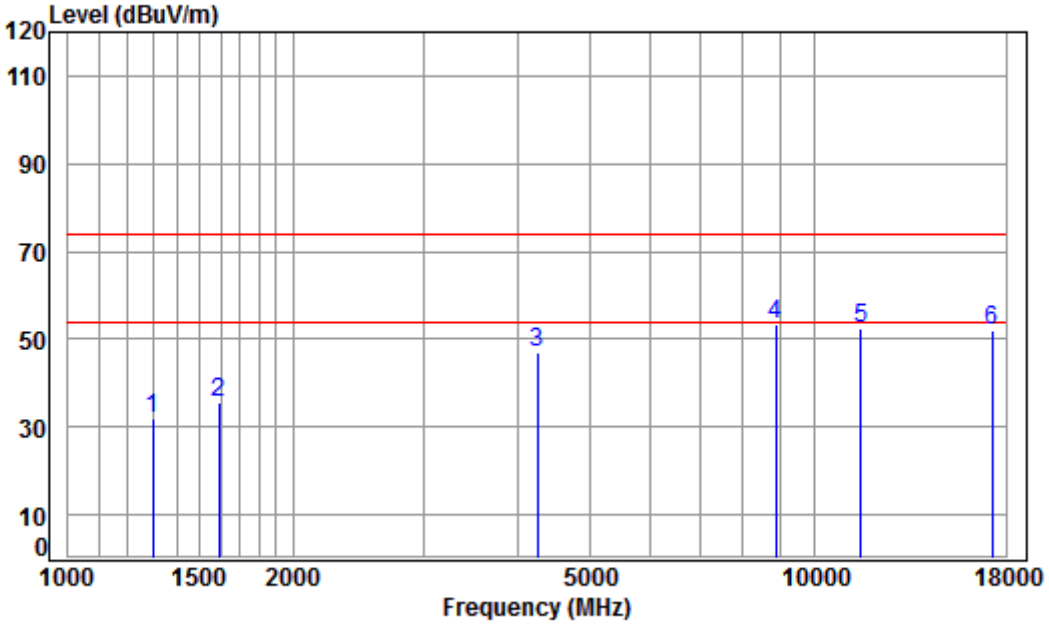
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5825 TX RSE
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1109.660	3.94	24.02	38.08	43.04	32.92	74.00	-41.08	peak
2	1620.431	4.61	26.34	38.03	42.26	35.18	74.00	-38.82	peak
3	4133.699	6.86	33.60	38.07	43.46	45.85	74.00	-28.15	peak
4	8059.475	10.07	36.53	36.34	41.62	51.88	74.00	-22.12	peak
5	pp11650.000	12.35	38.25	36.19	37.61	52.02	74.00	-21.98	peak
6	17475.000	18.25	43.37	36.06	26.32	51.88	74.00	-22.12	peak

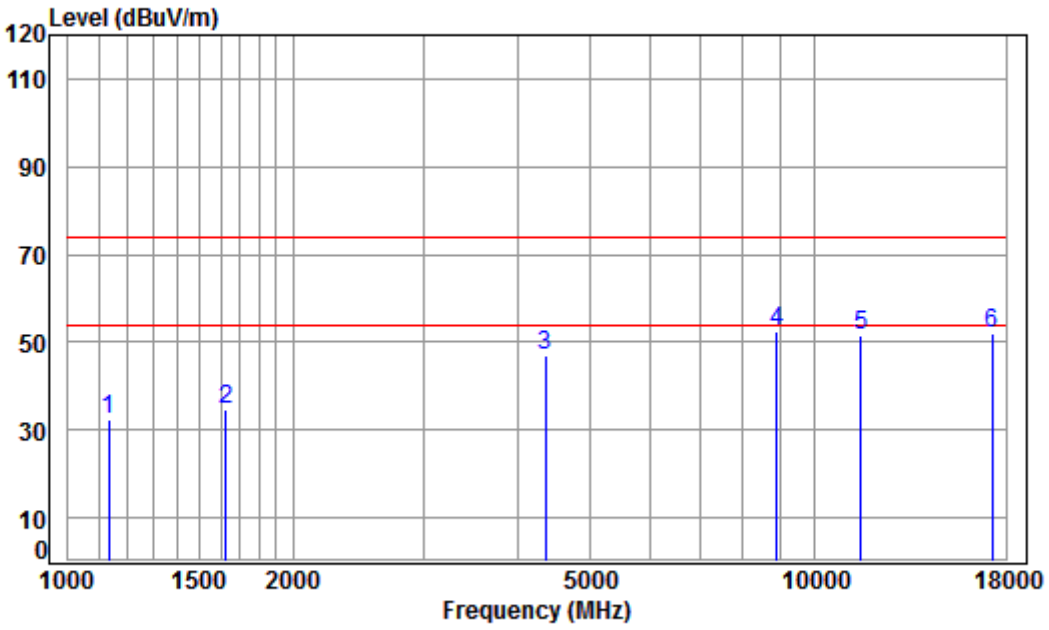
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5755 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	4.22	24.96	38.06	40.95	32.07	74.00	-41.93	peak
2	1592.571	4.58	26.22	38.03	42.79	35.56	74.00	-38.44	peak
3	4254.921	7.00	33.60	38.14	44.68	47.14	74.00	-26.86	peak
4	pp 8866.062	10.58	36.44	35.53	42.05	53.54	74.00	-20.46	peak
5	11510.000	12.33	38.11	36.03	38.06	52.47	74.00	-21.53	peak
6	17265.000	17.68	43.12	36.16	27.54	52.18	74.00	-21.82	peak

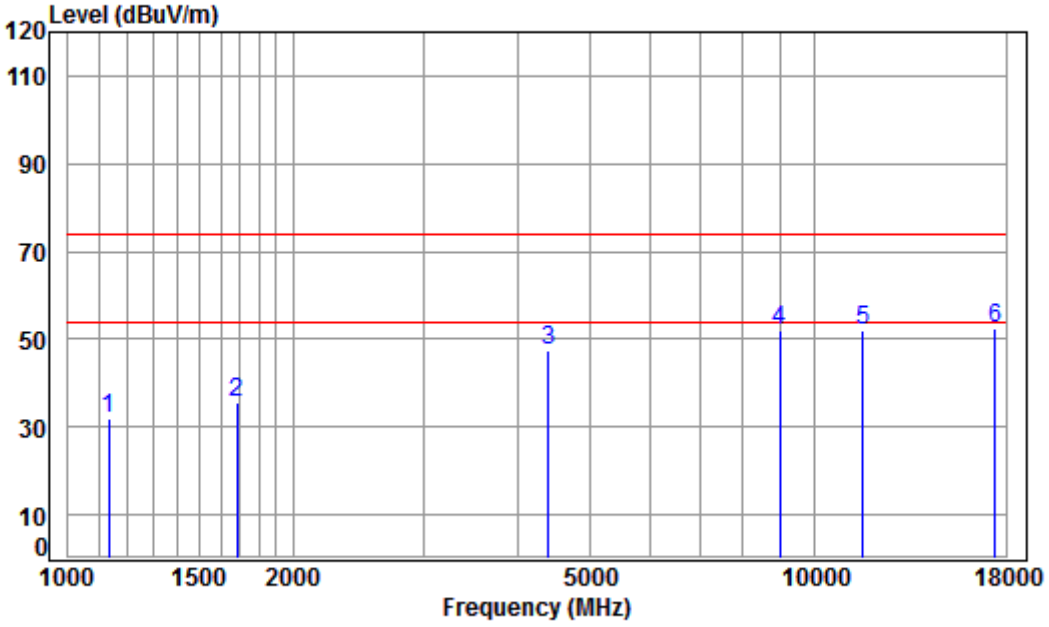
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5755 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	3.98	24.14	38.08	42.57	32.61	74.00	-41.39	peak
2	1625.121	4.62	26.36	38.03	41.78	34.73	74.00	-39.27	peak
3	4354.454	7.12	33.60	38.19	44.39	46.92	74.00	-27.08	peak
4 pp	8891.725	10.60	36.47	35.50	41.02	52.59	74.00	-21.41	peak
5	11510.000	12.33	38.11	36.03	37.00	51.41	74.00	-22.59	peak
6	17265.000	17.68	43.12	36.16	27.39	52.03	74.00	-21.97	peak

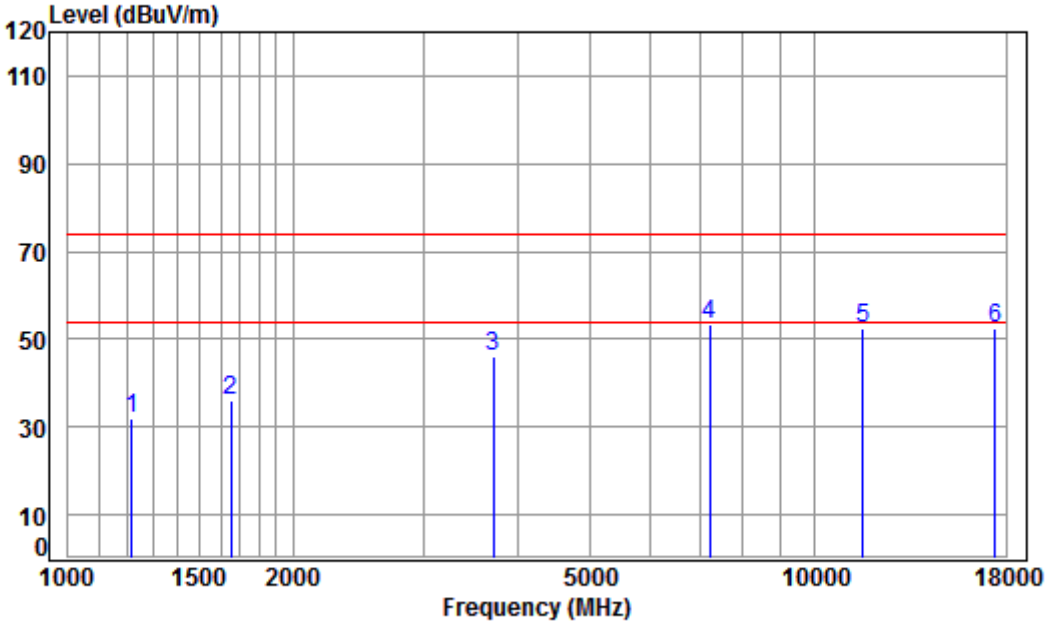
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5795 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	3.98	24.14	38.08	41.78	31.82	74.00	-42.18	peak
2	1682.477	4.69	26.60	38.02	42.38	35.65	74.00	-38.35	peak
3	4392.376	7.16	33.60	38.21	44.99	47.54	74.00	-26.46	peak
4	8969.161	10.66	36.56	35.43	40.20	51.99	74.00	-22.01	peak
5	11590.000	12.34	38.19	36.12	37.53	51.94	74.00	-22.06	peak
6	pp17385.000	18.01	43.26	36.10	27.19	52.36	74.00	-21.64	peak

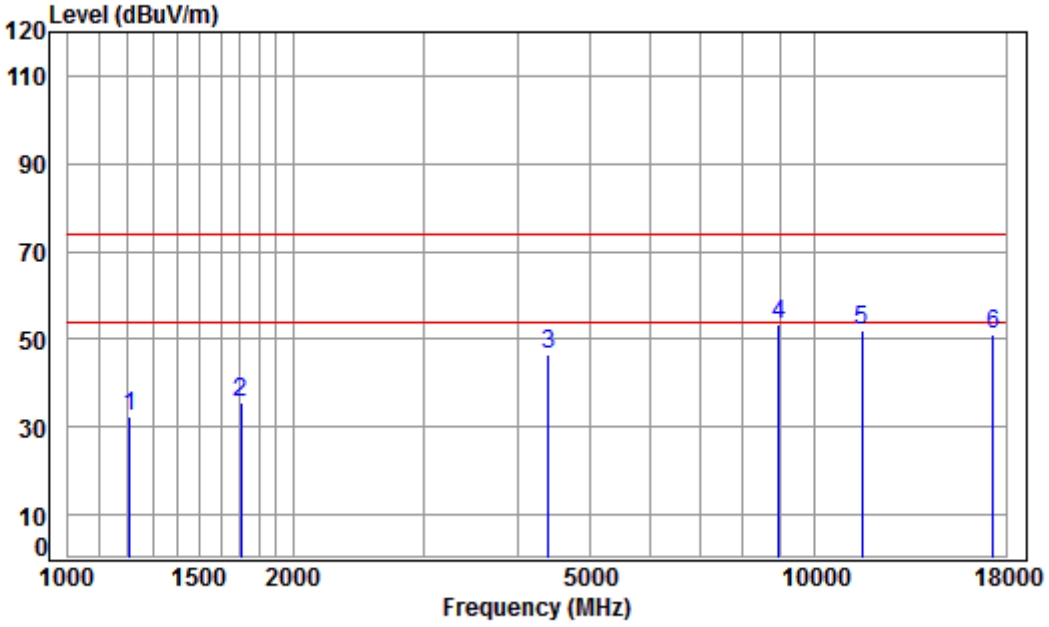
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5795 TX RSE
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1217.190	4.10	24.56	38.07	41.55	32.14	74.00	-41.86	peak
2	1653.550	4.65	26.48	38.03	43.10	36.20	74.00	-37.80	peak
3	3714.443	6.48	32.82	37.97	44.75	46.08	74.00	-27.92	peak
4 pp	7221.150	9.66	36.41	37.09	44.60	53.58	74.00	-20.42	peak
5	11590.000	12.34	38.19	36.12	38.09	52.50	74.00	-21.50	peak
6	17385.000	18.01	43.26	36.10	27.53	52.70	74.00	-21.30	peak

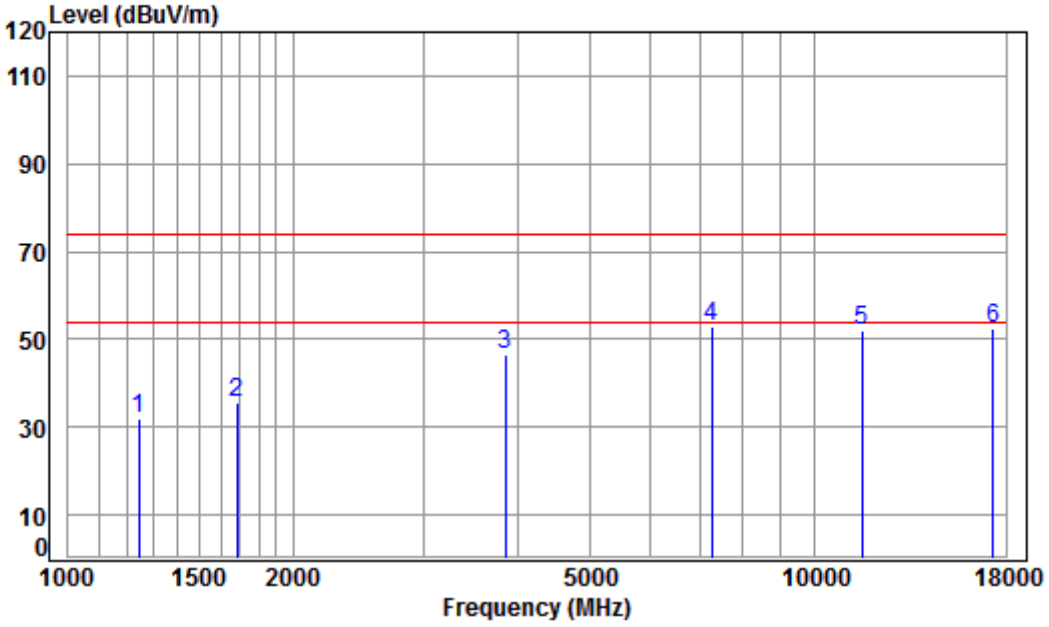
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5775 TX RSE
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	4.09	24.53	38.07	41.92	32.47	74.00	-41.53	peak
2	1702.042	4.71	26.68	38.02	42.05	35.42	74.00	-38.58	peak
3	4392.376	7.16	33.60	38.21	44.05	46.60	74.00	-27.40	peak
4	pp 8943.274	10.64	36.53	35.45	41.68	53.40	74.00	-20.60	peak
5	11550.000	12.34	38.15	36.07	37.60	52.02	74.00	-21.98	peak
6	17325.000	17.84	43.19	36.13	26.42	51.32	74.00	-22.68	peak

Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5775 TX RSE
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	4.14	24.70	38.07	41.06	31.83	74.00	-42.17	peak
2	1682.477	4.69	26.60	38.02	42.10	35.37	74.00	-38.63	peak
3	3845.537	6.58	33.19	37.99	44.69	46.47	74.00	-27.53	peak
4 pp	7263.015	9.69	36.39	37.05	43.81	52.84	74.00	-21.16	peak
5	11550.000	12.34	38.15	36.07	37.79	52.21	74.00	-21.79	peak
6	17325.000	17.84	43.19	36.13	27.62	52.52	74.00	-21.48	peak

Remark:

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

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

2) 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.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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
Measurement Distance: 3m
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

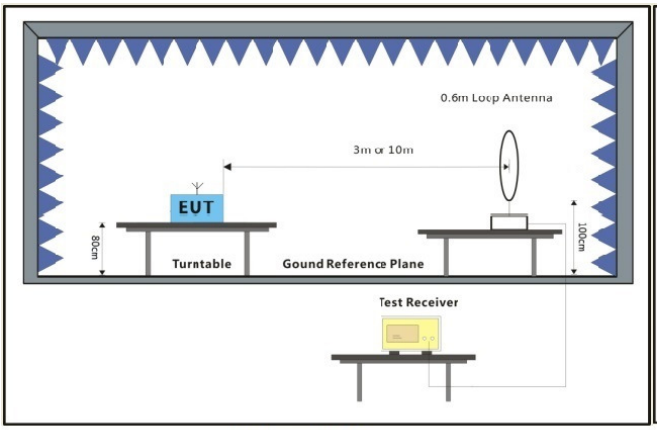
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

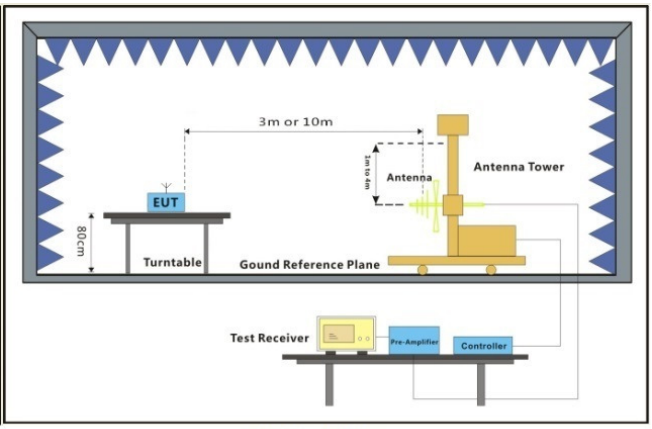
Test mode: b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0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

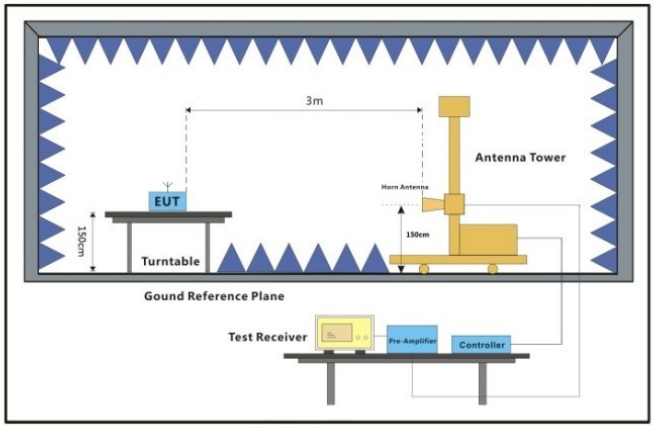
7.8.2 Test Setup Diagram



Below 30MHz



30MHz-1GHz



Above 1GHz

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

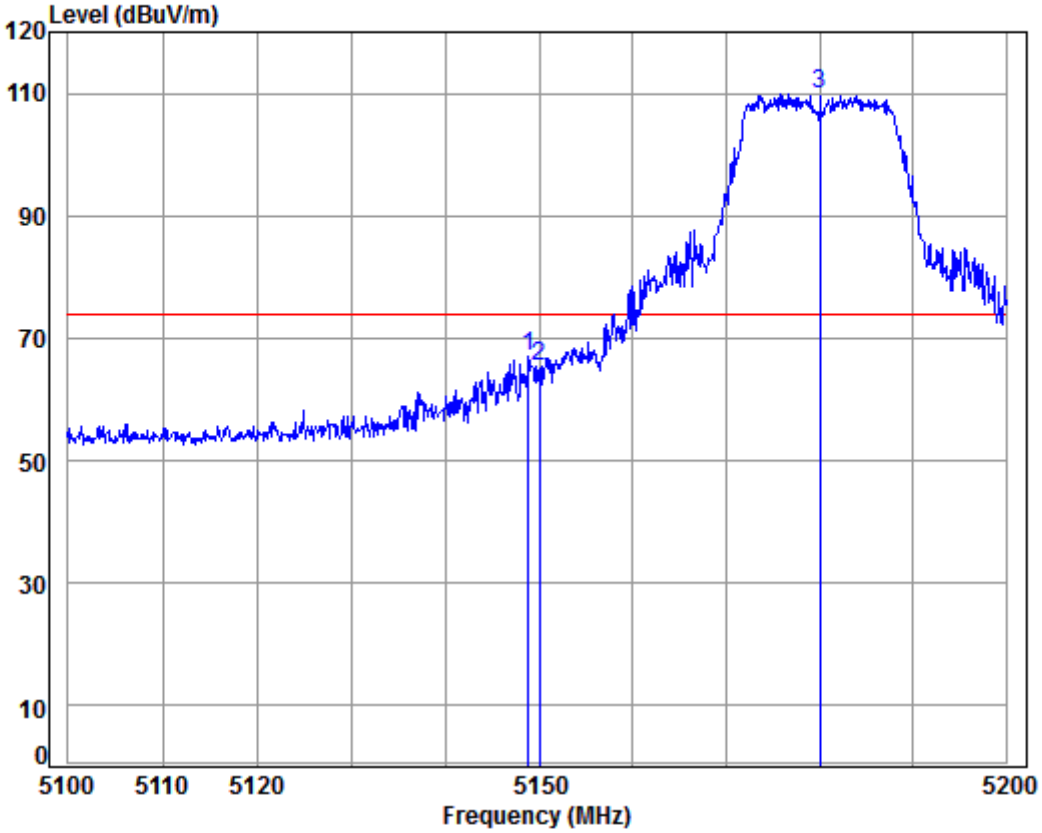
Remark:

1. For 802.11a mode, the test was performed at SISO mode, and only the data of worst case (transmitting with antenna 1) is recorded in the report. For 802.11n and 802.11ac mode, the test was performed at MIMO mode. For MIMO mode, both CDD mode and beamforming mode were tested, and found beamforming mode is the worst case.

2. Three adapter were tested, and the data of adapter 2 is the worst.

3. Only the data of worst case is recorded in the report.

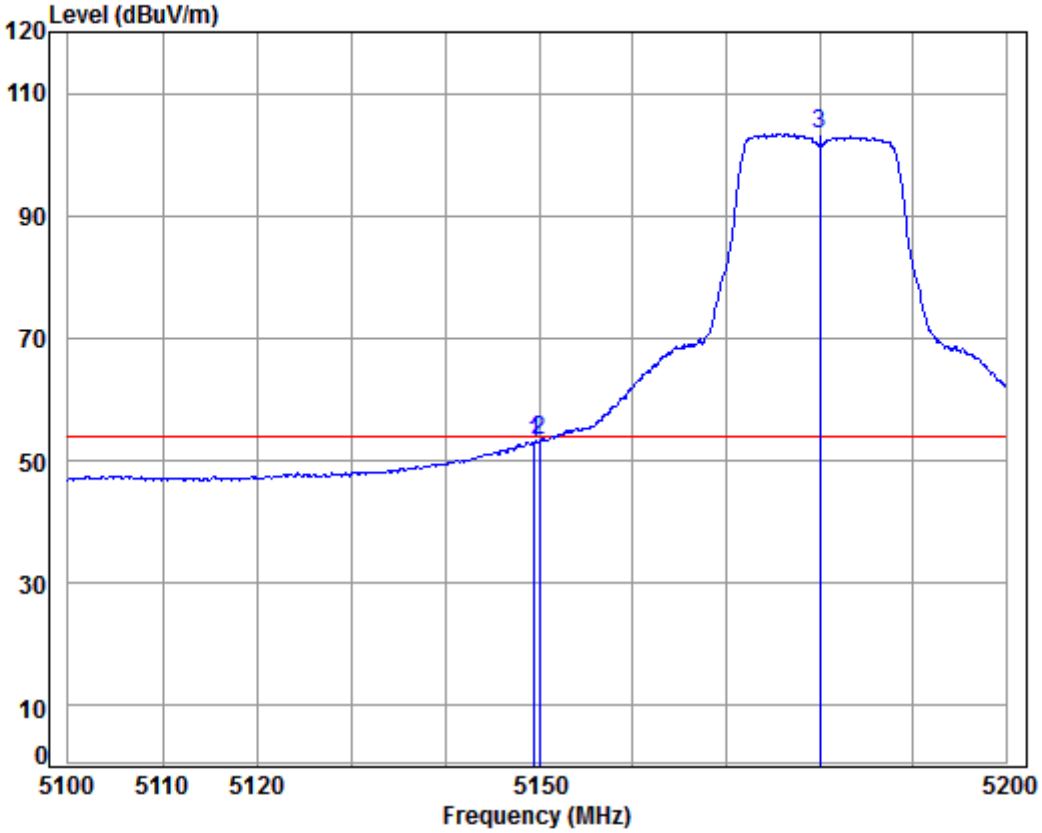
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.857	5.30	34.47	38.47	65.86	67.16	74.00	-6.84	peak
2	5150.000	5.30	34.47	38.47	64.11	65.41	74.00	-8.59	peak
3 pp	5180.000	5.30	34.46	38.46	108.66	109.96	74.00	35.96	peak

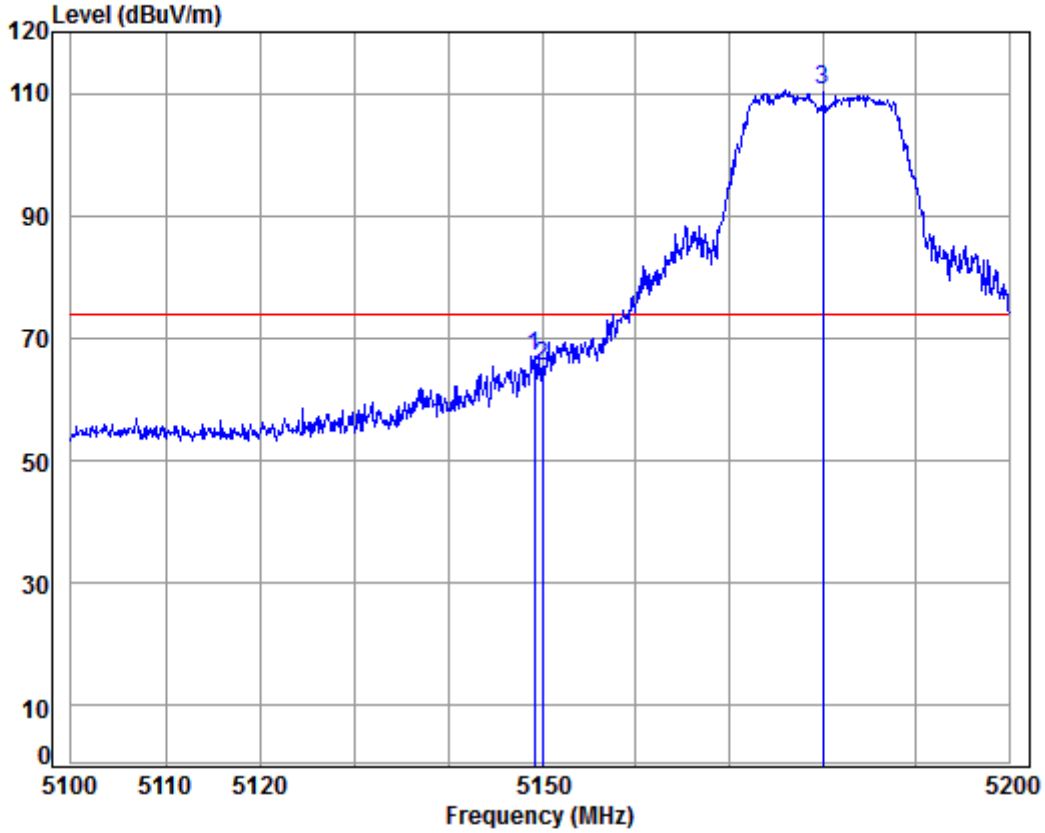
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	5.30	34.47	38.47	51.82	53.12	54.00	-0.88	Average
2	5150.000	5.30	34.47	38.47	52.02	53.32	54.00	-0.68	Average
3 pp	5180.000	5.30	34.46	38.46	101.95	103.25	54.00	49.25	Average

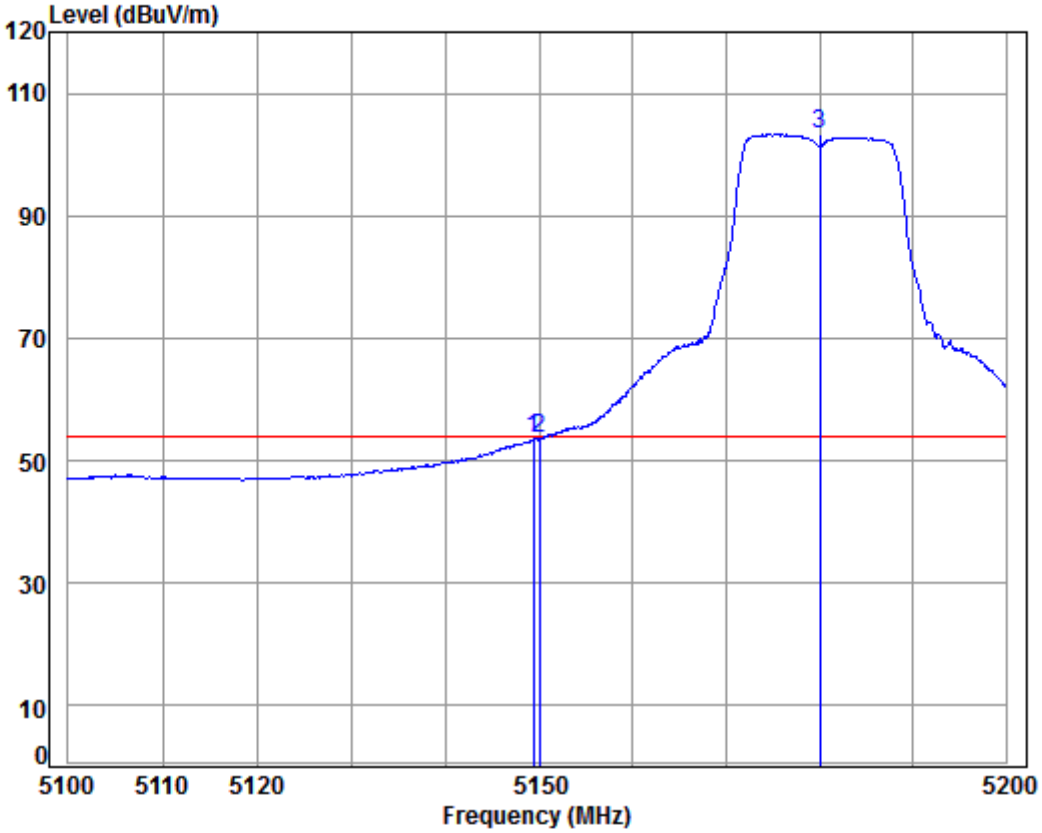
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.157	5.30	34.47	38.47	65.82	67.12	74.00	-6.88	Peak
2	5150.000	5.30	34.47	38.47	64.19	65.49	74.00	-8.51	Peak
3 pp	5180.000	5.30	34.46	38.46	109.12	110.42	74.00	36.42	Peak

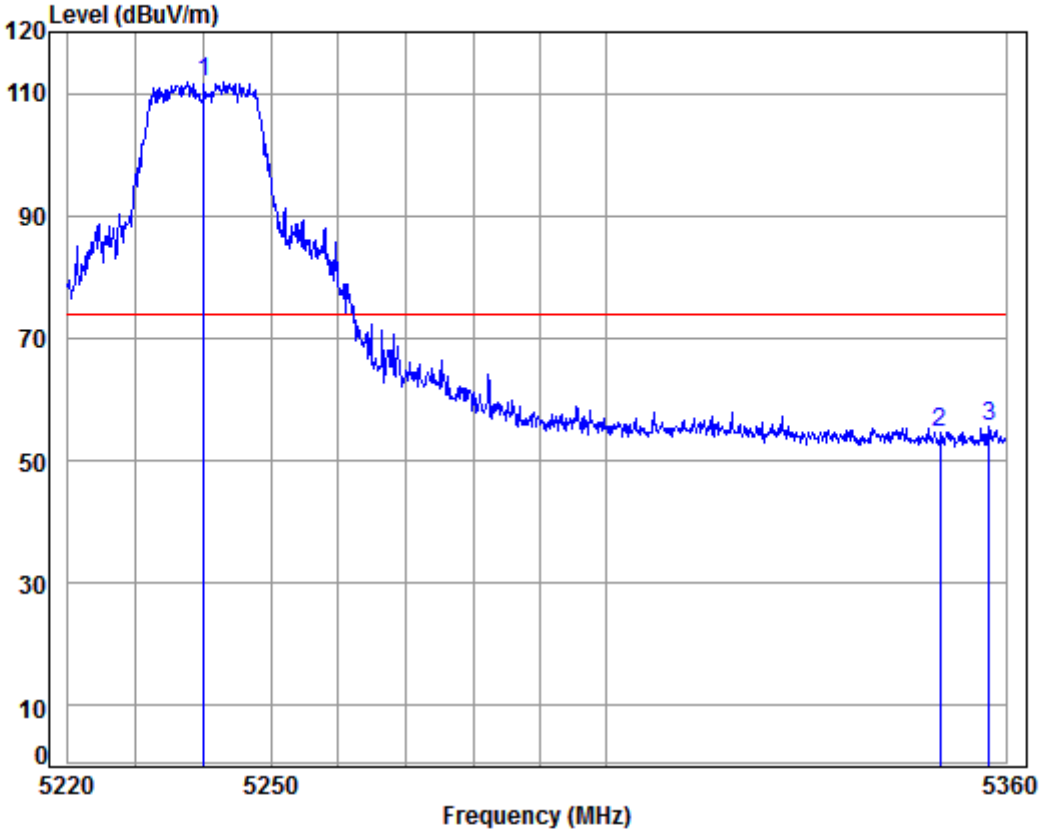
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	5.30	34.47	38.47	52.20	53.50	54.00	-0.50	Average
2	5150.000	5.30	34.47	38.47	52.45	53.75	54.00	-0.25	Average
3 pp	5180.000	5.30	34.46	38.46	101.94	103.24	54.00	49.24	Average

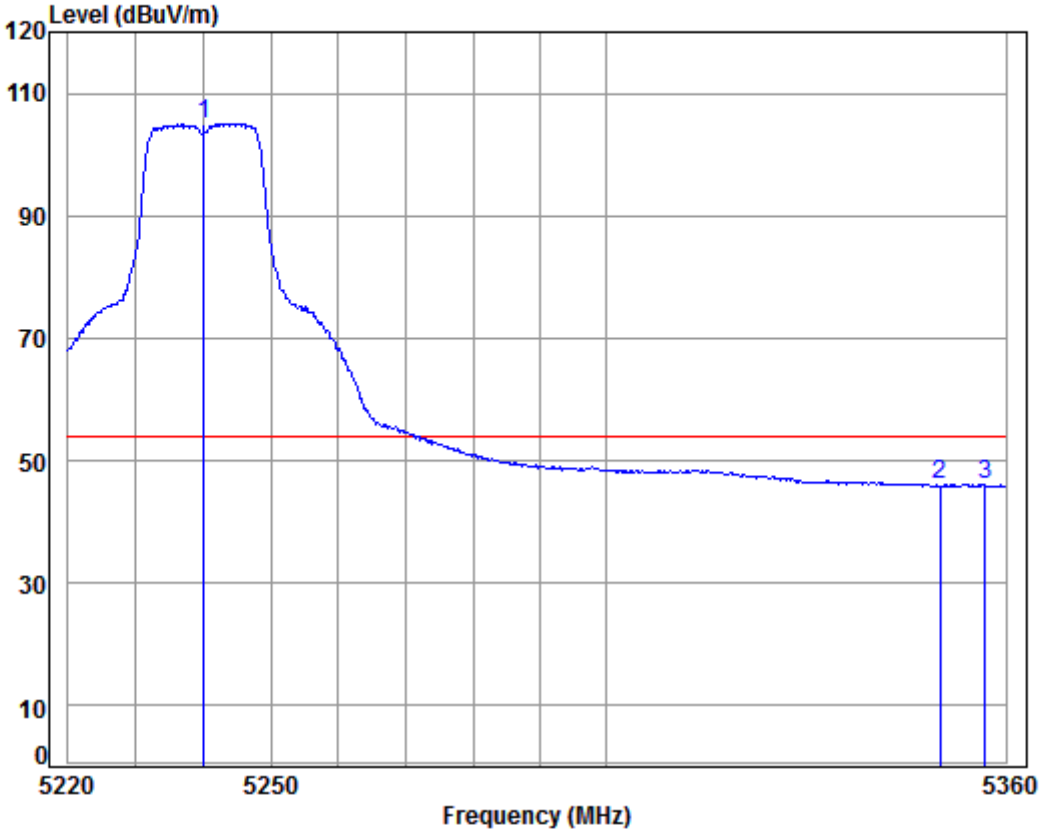
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	110.45	111.75	74.00	37.75	peak
2	5350.000	5.31	34.43	38.43	53.23	54.54	74.00	-19.46	peak
3	5357.447	5.31	34.43	38.42	54.16	55.48	74.00	-18.52	peak

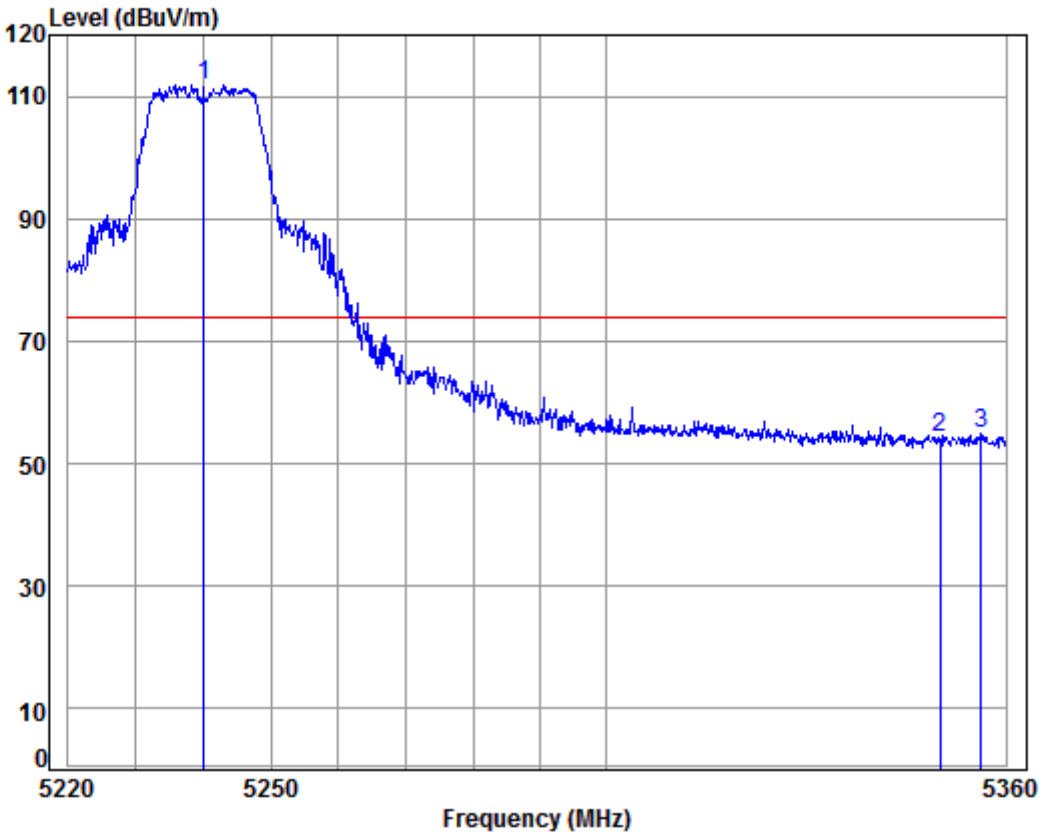
Mode:b; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11A

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5240.000	5.30	34.45	38.45	103.80	105.10	54.00	51.10	Average
2		5350.000	5.31	34.43	38.43	44.69	46.00	54.00	-8.00	Average
3		5356.880	5.31	34.43	38.42	44.83	46.15	54.00	-7.85	Average

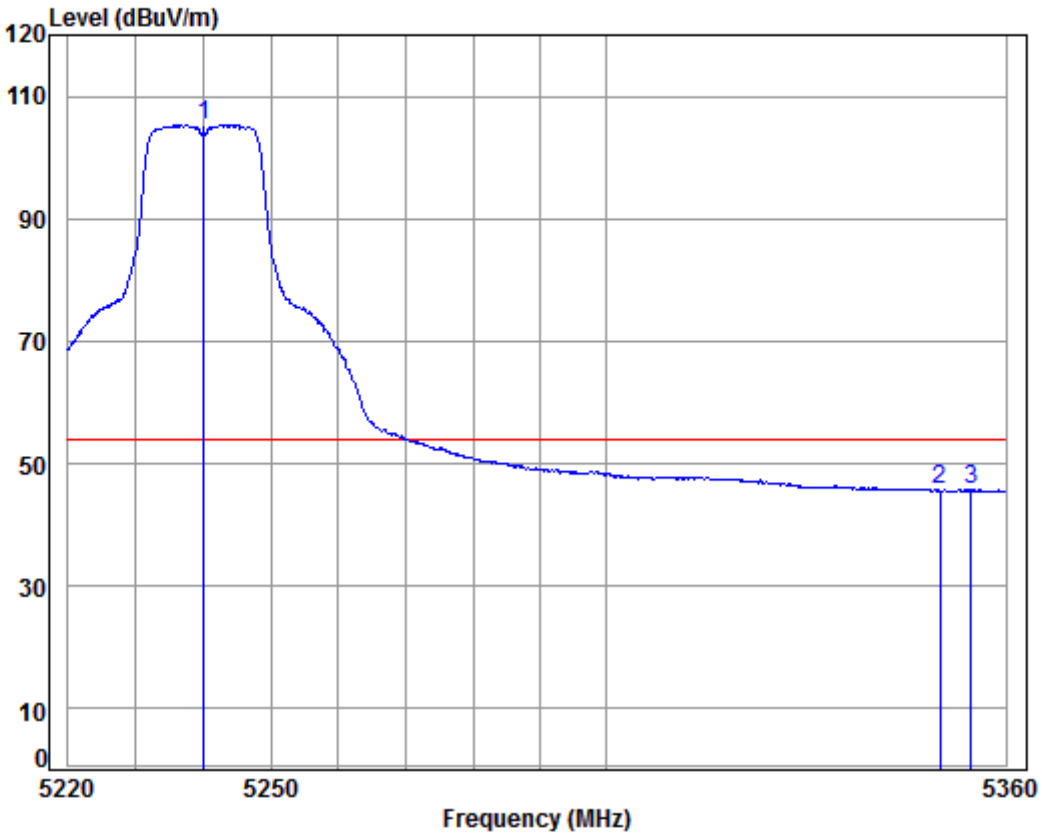
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11A

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5240.000	5.30	34.45	38.45	110.61	111.91	74.00	37.91	Peak
2		5350.000	5.31	34.43	38.43	53.04	54.35	74.00	-19.65	Peak
3		5356.313	5.31	34.43	38.42	53.54	54.86	74.00	-19.14	Peak

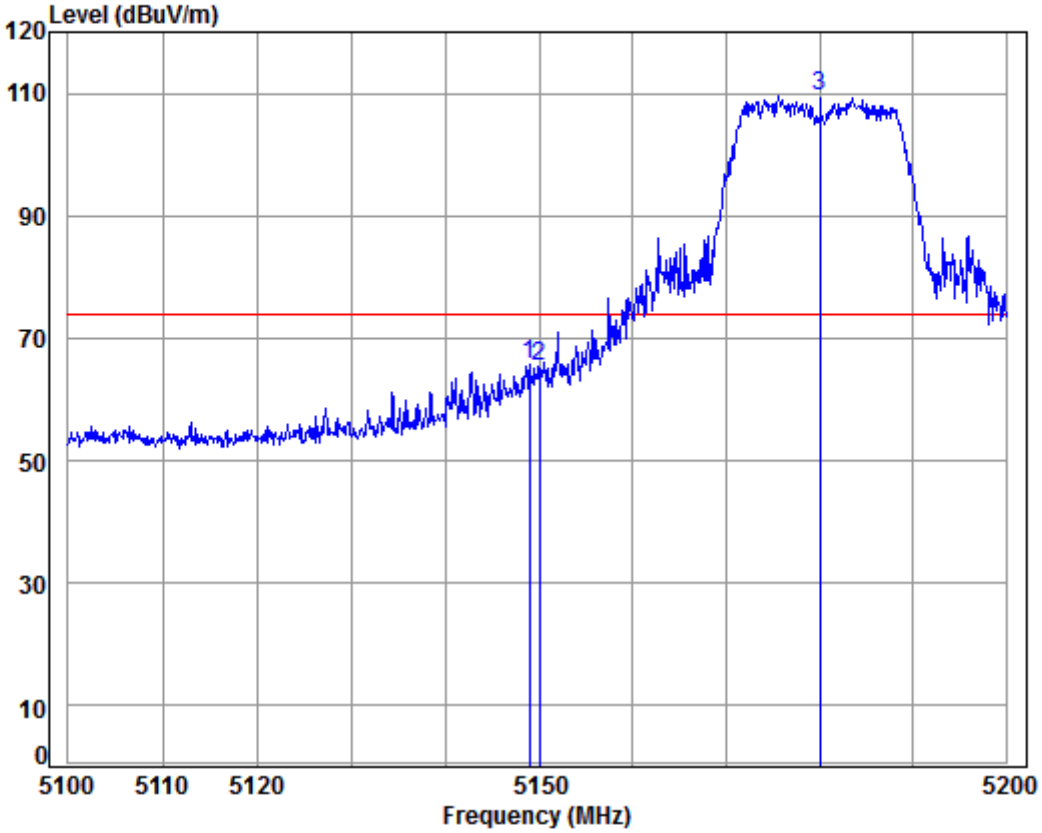
Mode:b; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	103.99	105.29	54.00	51.29	Average
2	5350.000	5.31	34.43	38.43	44.32	45.63	54.00	-8.37	Average
3	5354.754	5.31	34.43	38.42	44.37	45.69	54.00	-8.31	Average

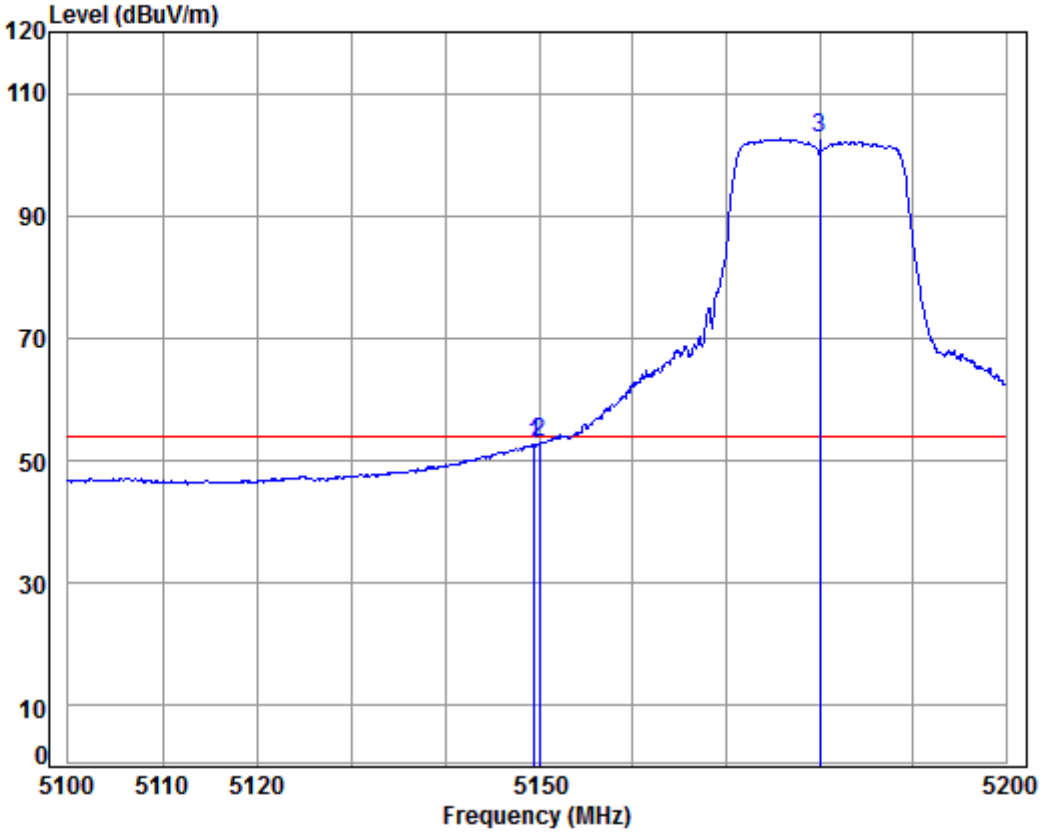
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	5.30	34.47	38.47	64.34	65.64	74.00	-8.36	peak
2	5150.000	5.30	34.47	38.47	64.09	65.39	74.00	-8.61	peak
3 pp	5180.000	5.30	34.46	38.46	108.24	109.54	74.00	35.54	peak

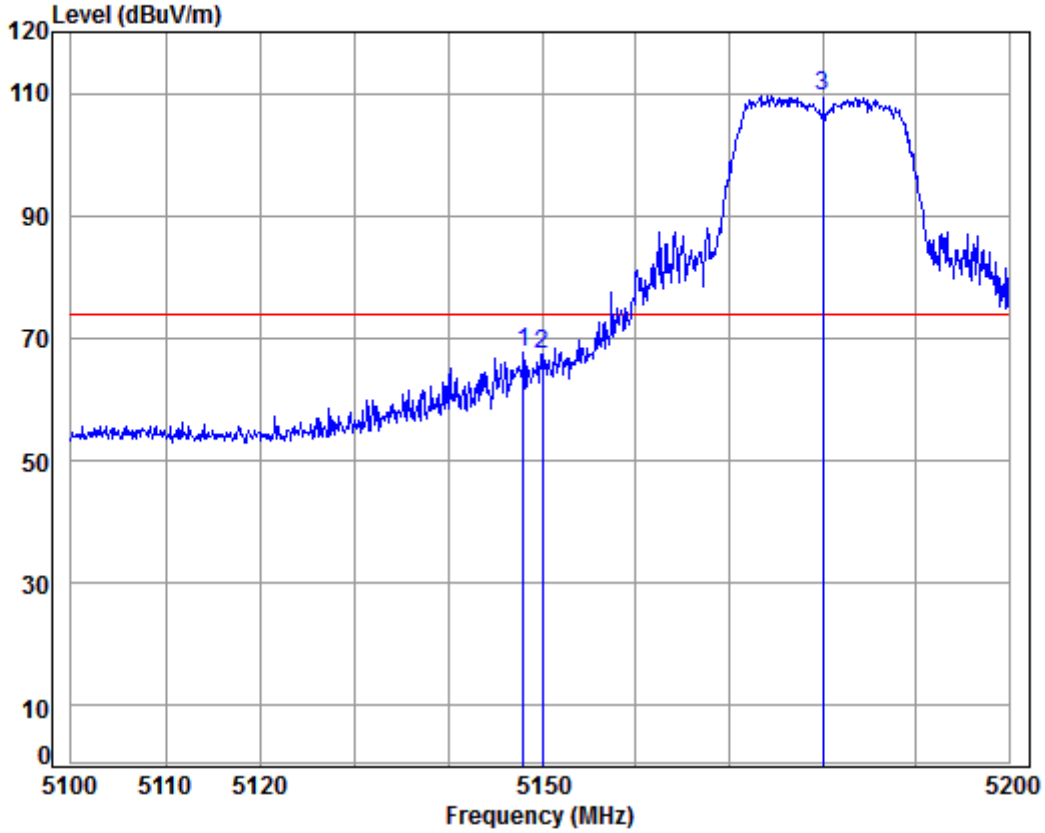
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	5.30	34.47	38.47	51.18	52.48	54.00	-1.52	Average
2	5150.000	5.30	34.47	38.47	51.66	52.96	54.00	-1.04	Average
3 pp	5180.000	5.30	34.46	38.46	101.22	102.52	54.00	48.52	Average

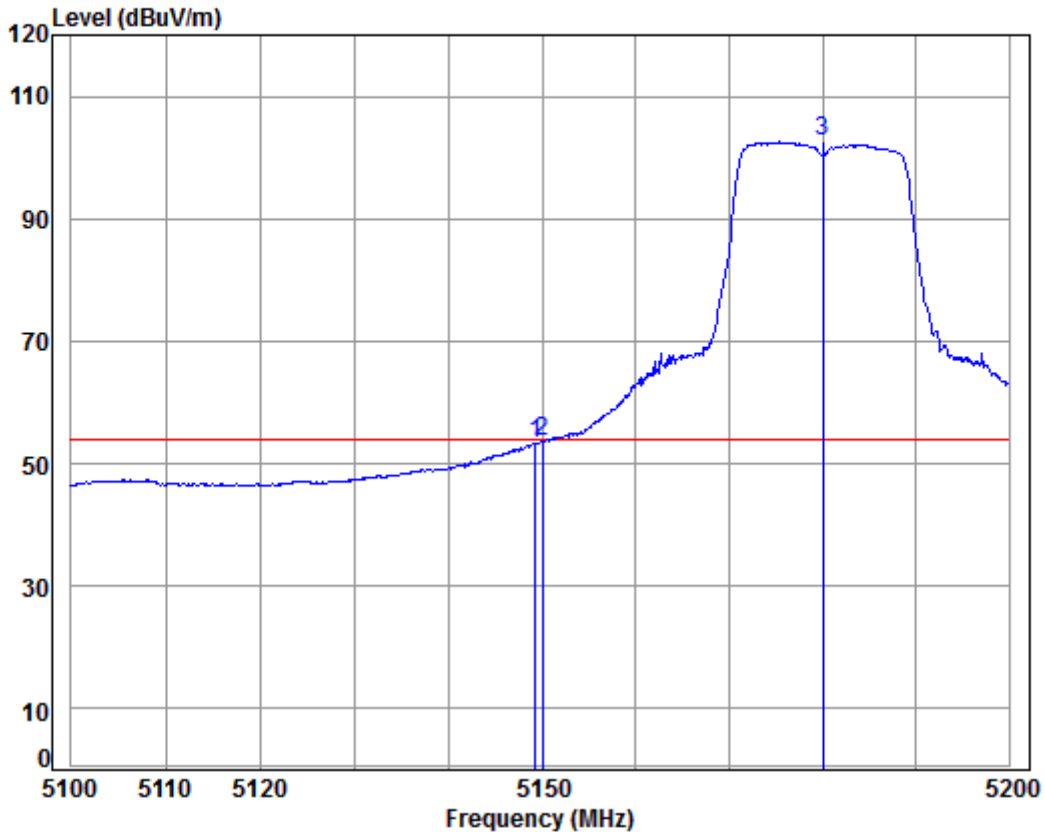
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.958	5.30	34.47	38.47	66.32	67.62	74.00	-6.38	Peak
2	5150.000	5.30	34.47	38.47	66.05	67.35	74.00	-6.65	Peak
3 pp	5180.000	5.30	34.46	38.46	108.29	109.59	74.00	35.59	Peak

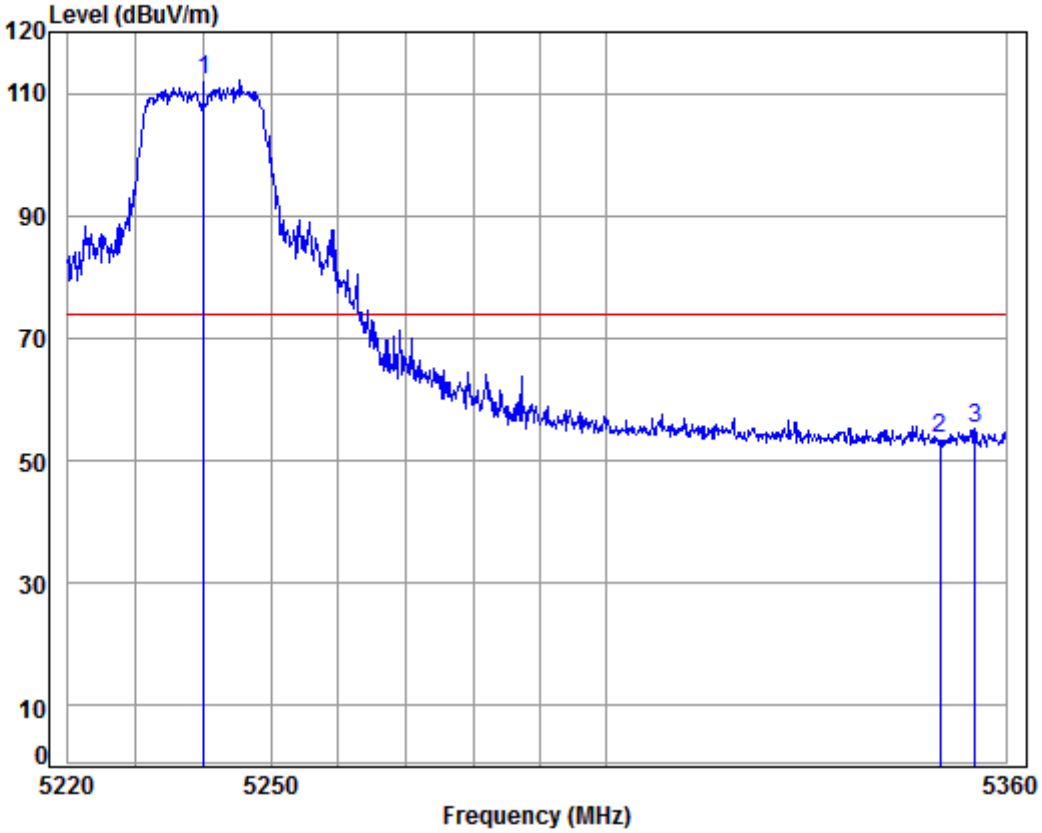
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.257	5.30	34.47	38.47	52.13	53.43	54.00	-0.57	Average
2	5150.000	5.30	34.47	38.47	52.35	53.65	54.00	-0.35	Average
3 pp	5180.000	5.30	34.46	38.46	101.21	102.51	54.00	48.51	Average

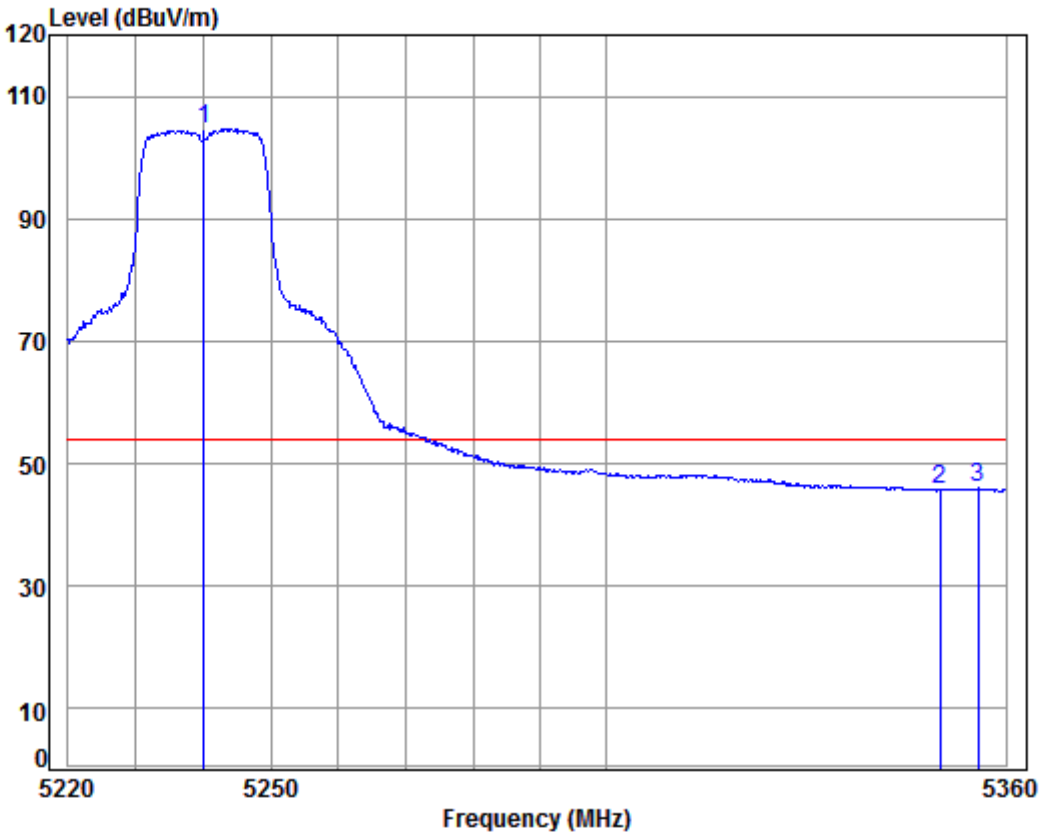
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	110.89	112.19	74.00	38.19	peak
2	5350.000	5.31	34.43	38.43	52.33	53.64	74.00	-20.36	peak
3	5355.321	5.31	34.43	38.42	53.96	55.28	74.00	-18.72	peak

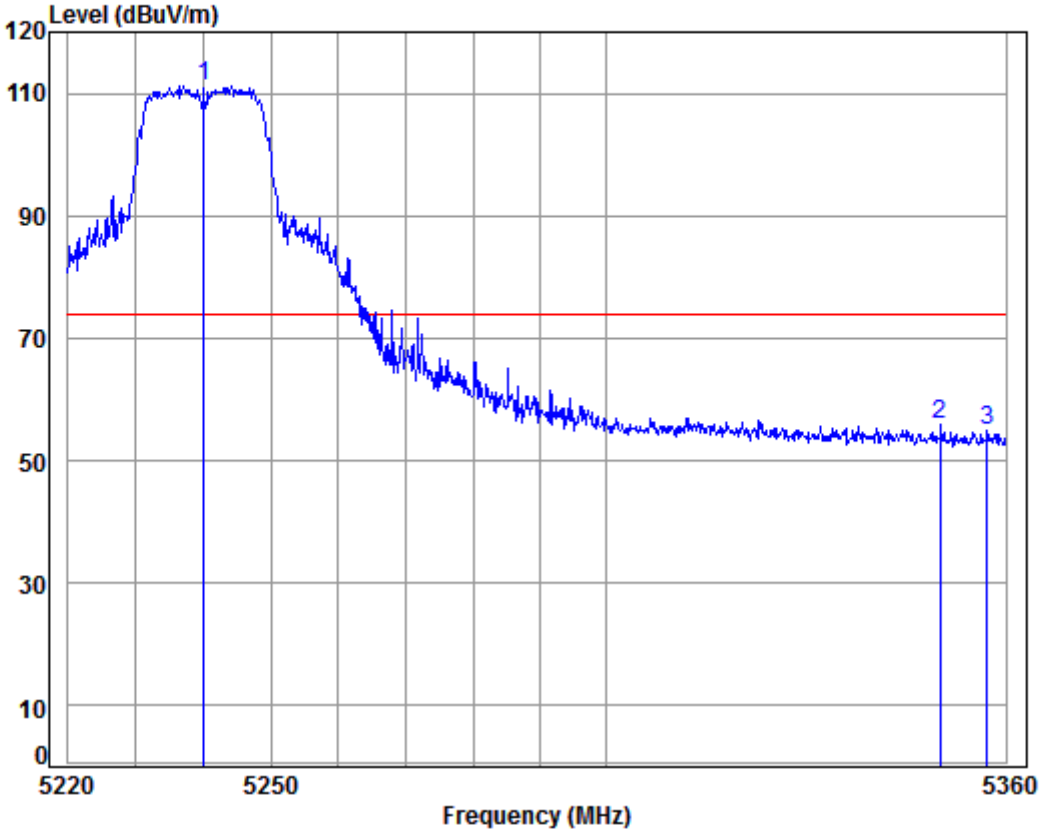
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	103.26	104.56	54.00	50.56	Average
2	5350.000	5.31	34.43	38.43	44.43	45.74	54.00	-8.26	Average
3	5355.746	5.31	34.43	38.42	44.62	45.94	54.00	-8.06	Average

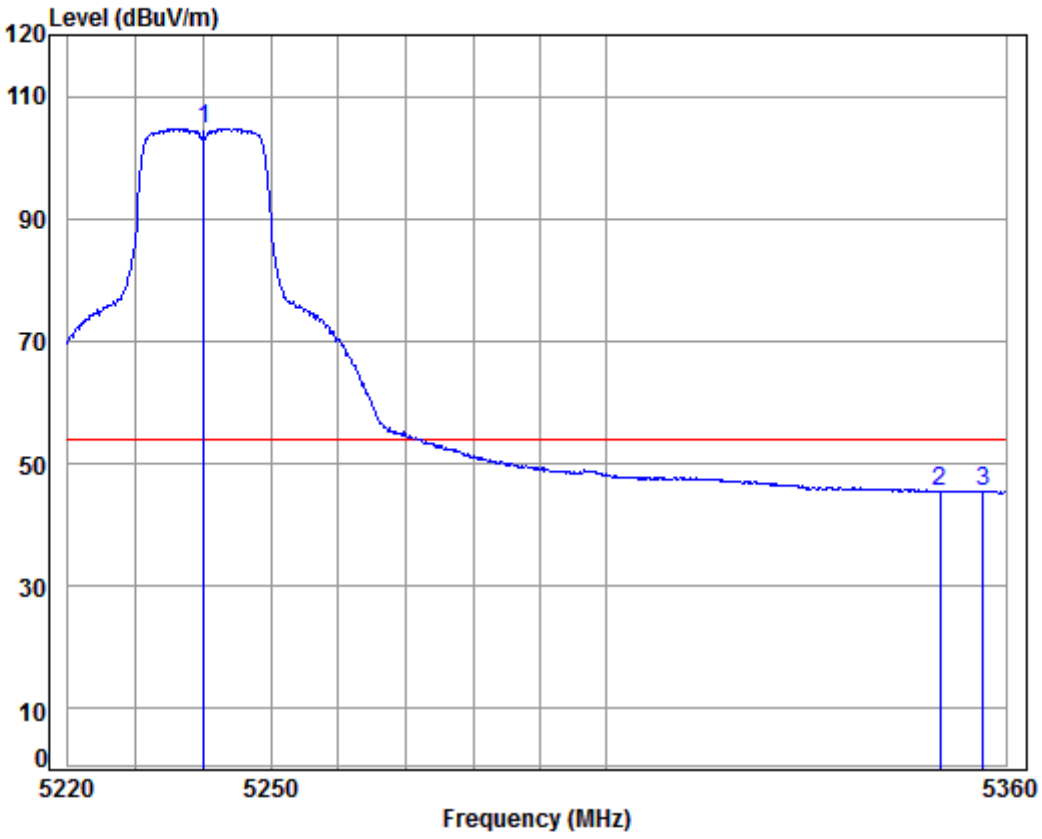
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	109.93	111.23	74.00	37.23	Peak
2	5350.000	5.31	34.43	38.43	54.52	55.83	74.00	-18.17	Peak
3	5357.164	5.31	34.43	38.42	53.61	54.93	74.00	-19.07	Peak

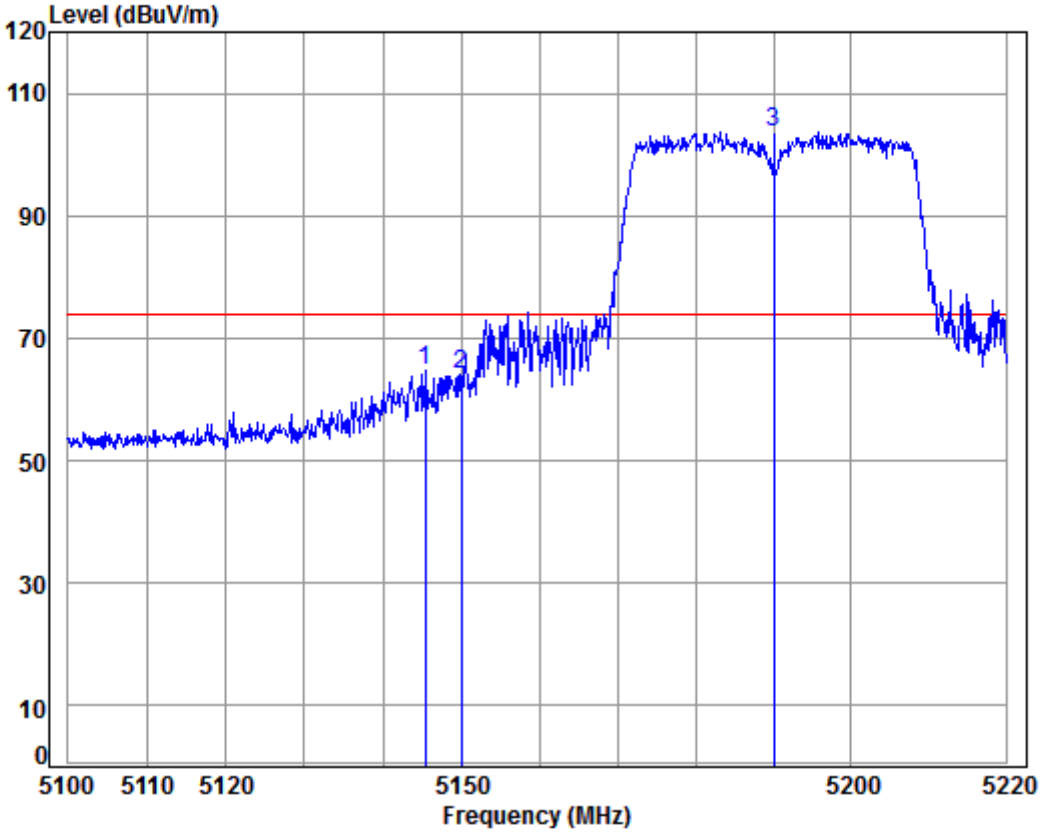
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	103.46	104.76	54.00	50.76	Average
2	5350.000	5.31	34.43	38.43	44.16	45.47	54.00	-8.53	Average
3	5356.596	5.31	34.43	38.42	44.24	45.56	54.00	-8.44	Average

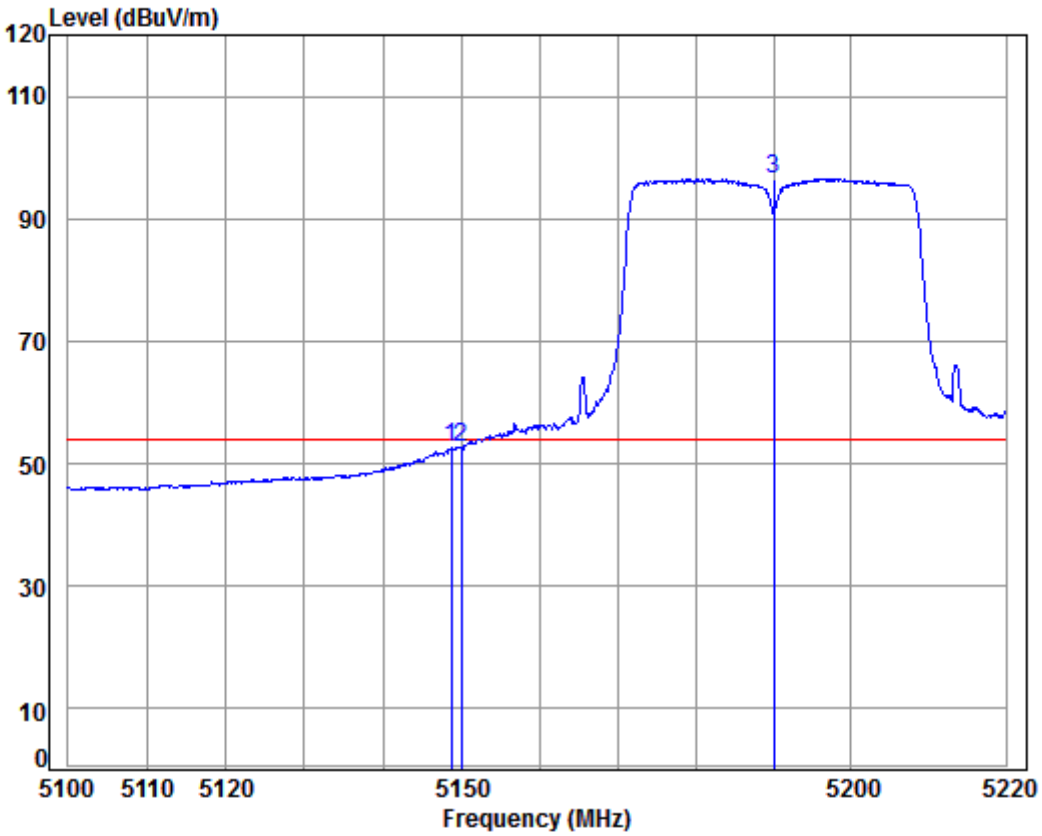
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.391	5.30	34.47	38.47	63.35	64.65	74.00	-9.35	peak
2	5150.000	5.30	34.47	38.47	62.91	64.21	74.00	-9.79	peak
3 pp	5190.000	5.30	34.46	38.46	102.37	103.67	74.00	29.67	peak

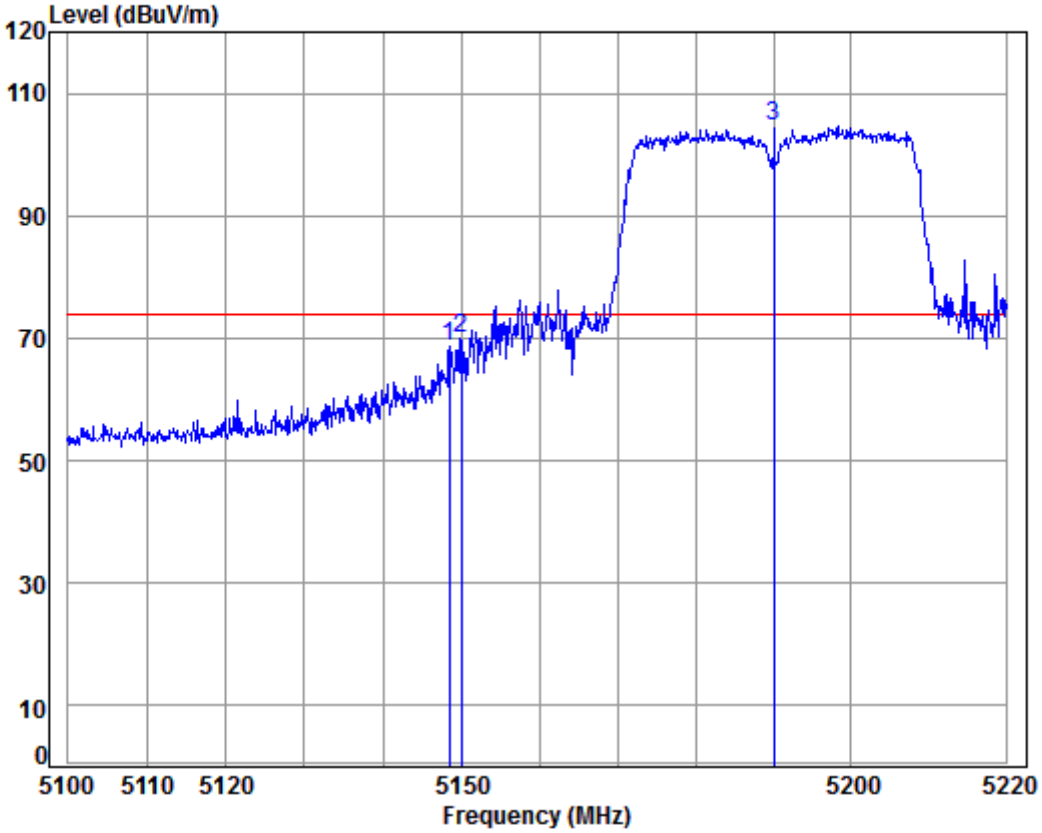
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.743	5.30	34.47	38.47	51.47	52.77	54.00	-1.23	Average
2	5150.000	5.30	34.47	38.47	51.39	52.69	54.00	-1.31	Average
3 pp	5190.000	5.30	34.46	38.46	95.19	96.49	54.00	42.49	Average

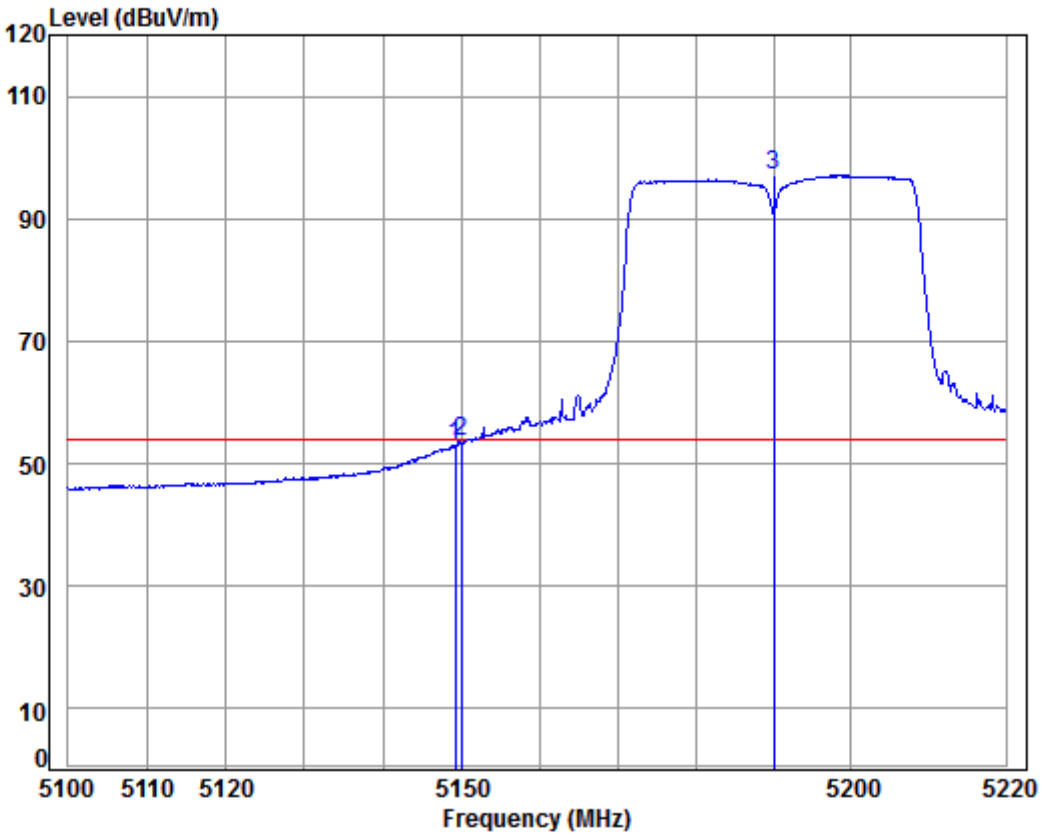
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.503	5.30	34.47	38.47	67.31	68.61	74.00	-5.39	Peak
2	5150.000	5.30	34.47	38.47	68.53	69.83	74.00	-4.17	Peak
3 pp	5190.000	5.30	34.46	38.46	103.36	104.66	74.00	30.66	Peak

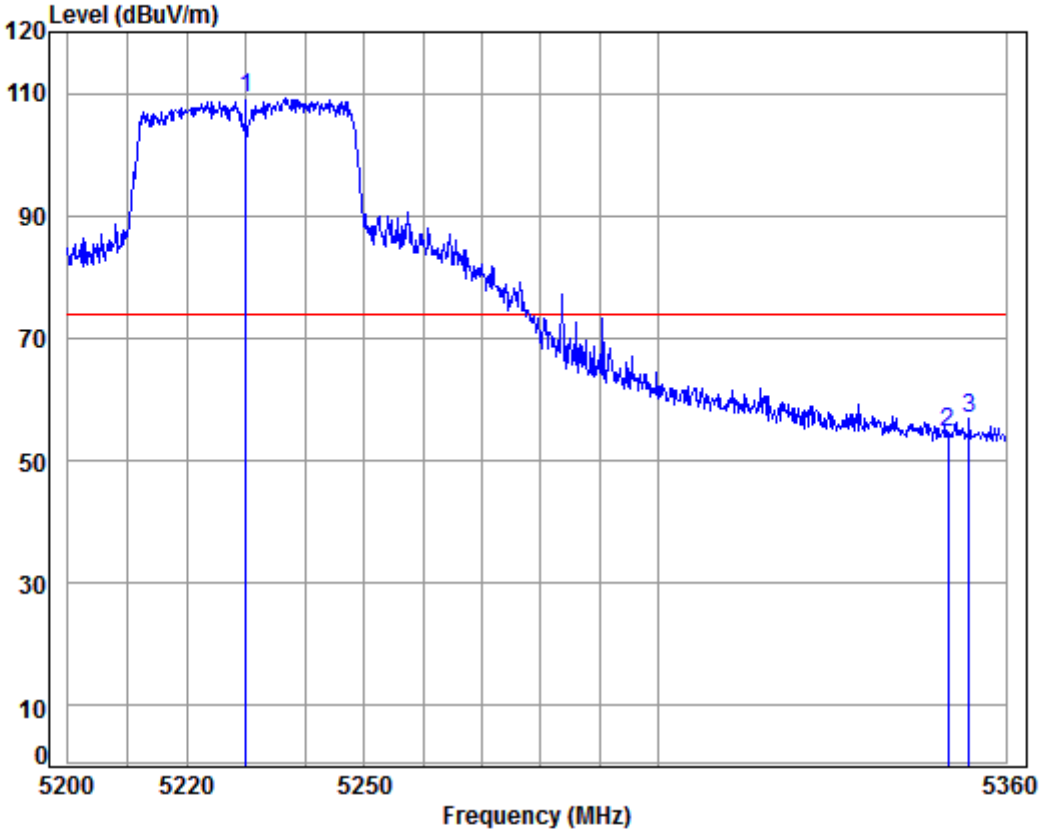
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.222	5.30	34.47	38.47	51.76	53.06	54.00	-0.94	Average
2	5150.000	5.30	34.47	38.47	52.36	53.66	54.00	-0.34	Average
3 pp	5190.000	5.30	34.46	38.46	95.82	97.12	54.00	43.12	Average

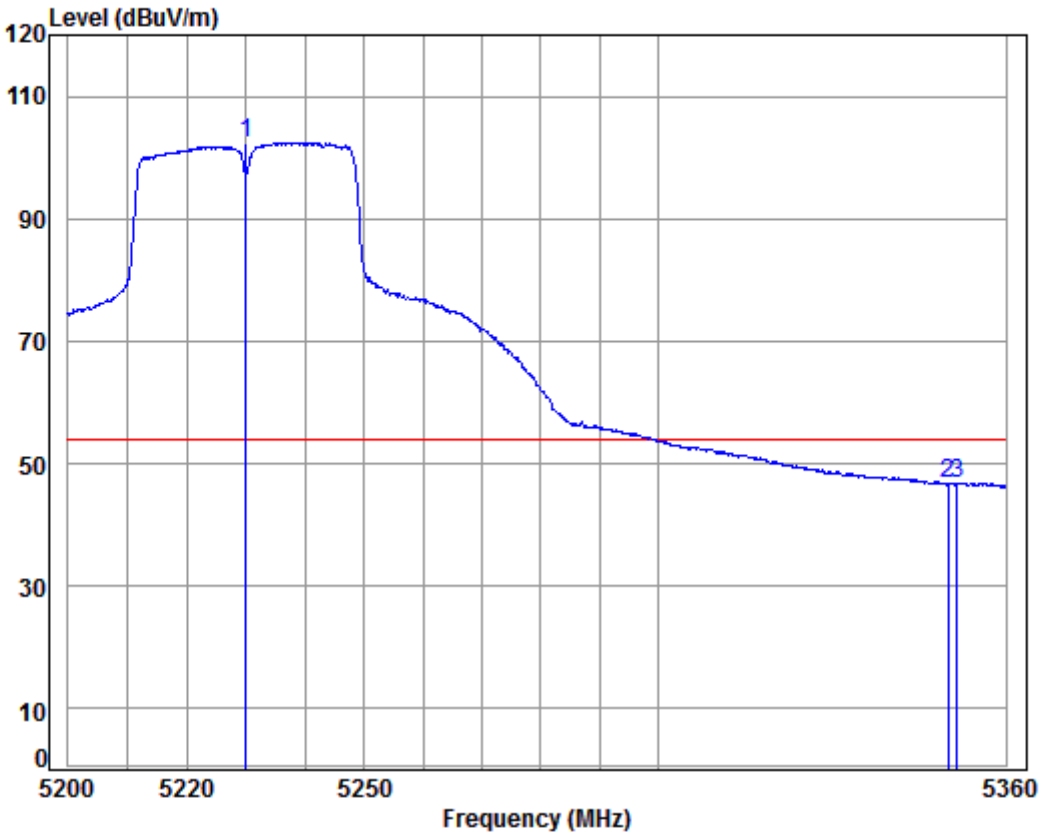
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11N40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	107.91	109.21	74.00	35.21	peak
2		5350.000	5.31	34.43	38.43	53.24	54.55	74.00	-19.45	peak
3		5353.669	5.31	34.43	38.43	55.49	56.80	74.00	-17.20	peak

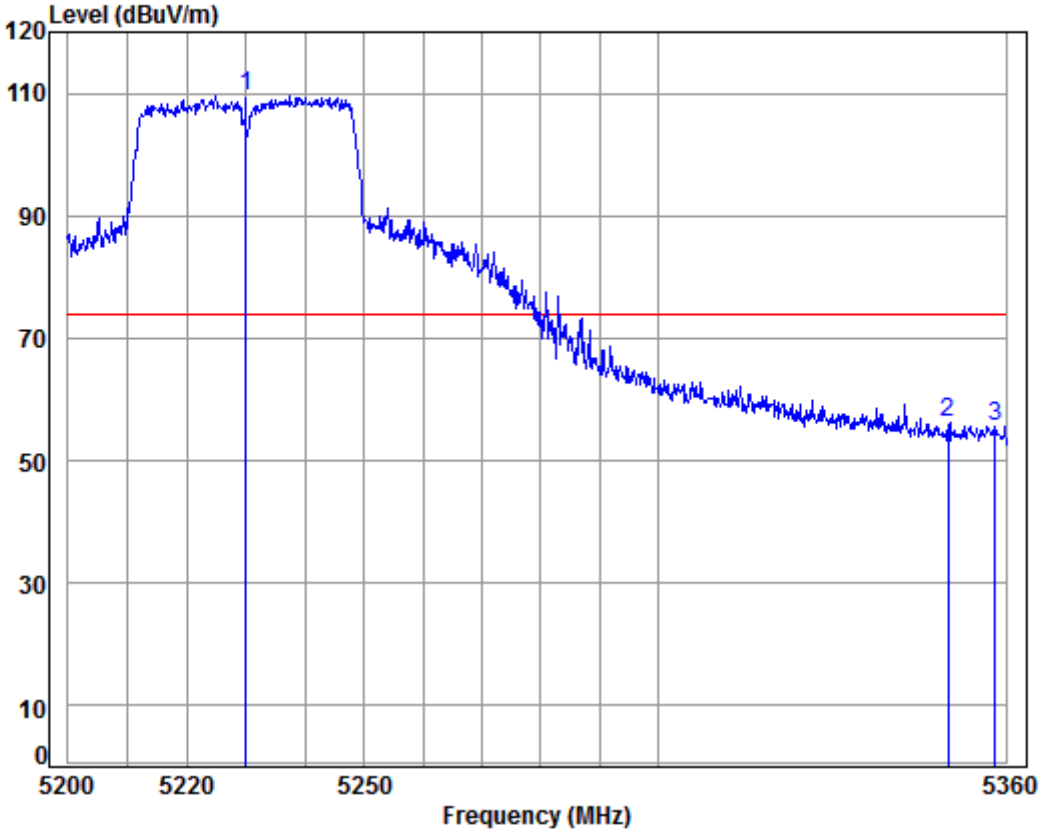
Mode:b; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11N40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	101.15	102.45	54.00	48.45	Average
2		5350.000	5.31	34.43	38.43	45.56	46.87	54.00	-7.13	Average
3		5351.560	5.31	34.43	38.43	45.50	46.81	54.00	-7.19	Average

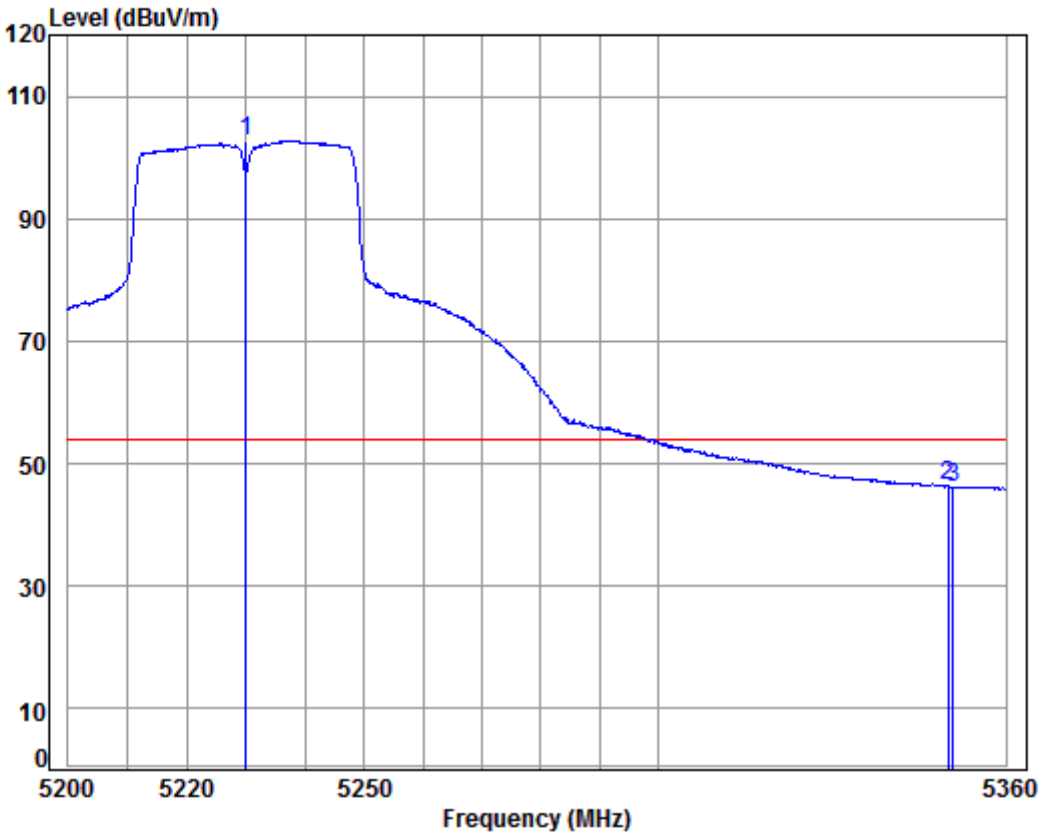
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11N40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	108.28	109.58	74.00	35.58	Peak
2		5350.000	5.31	34.43	38.43	54.84	56.15	74.00	-17.85	Peak
3		5358.213	5.31	34.43	38.42	54.25	55.57	74.00	-18.43	Peak

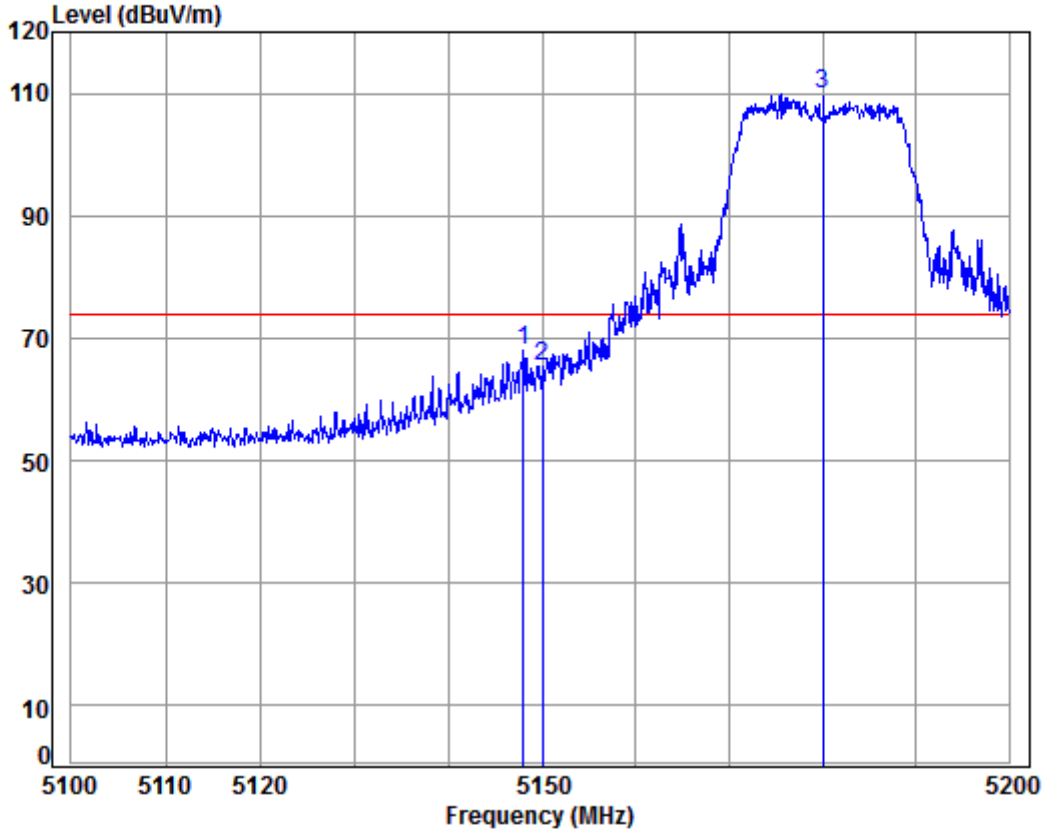
Mode:b; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11N40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	101.40	102.70	54.00	48.70	Average
2		5350.000	5.31	34.43	38.43	45.02	46.33	54.00	-7.67	Average
3		5350.911	5.31	34.43	38.43	44.94	46.25	54.00	-7.75	Average

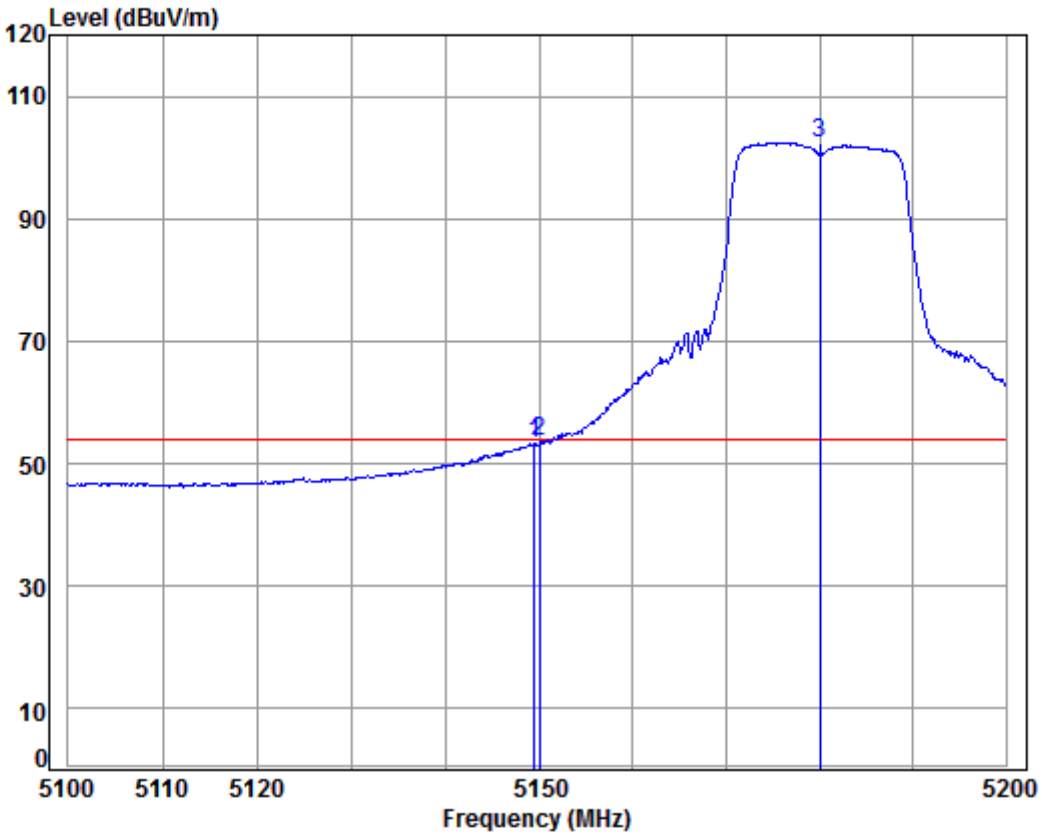
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.958	5.30	34.47	38.47	66.75	68.05	74.00	-5.95	peak
2	5150.000	5.30	34.47	38.47	64.17	65.47	74.00	-8.53	peak
3 pp	5180.000	5.30	34.46	38.46	108.59	109.89	74.00	35.89	peak

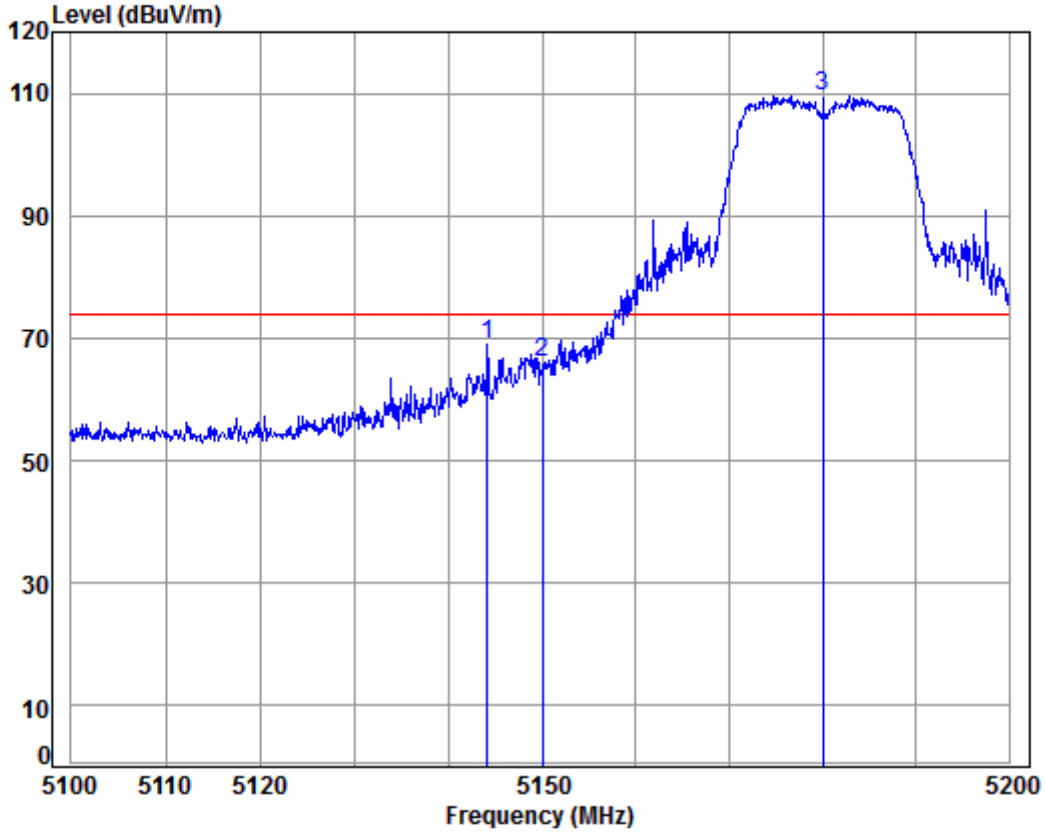
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	5.30	34.47	38.47	51.95	53.25	54.00	-0.75	Average
2	5150.000	5.30	34.47	38.47	52.35	53.65	54.00	-0.35	Average
3 pp	5180.000	5.30	34.46	38.46	101.10	102.40	54.00	48.40	Average

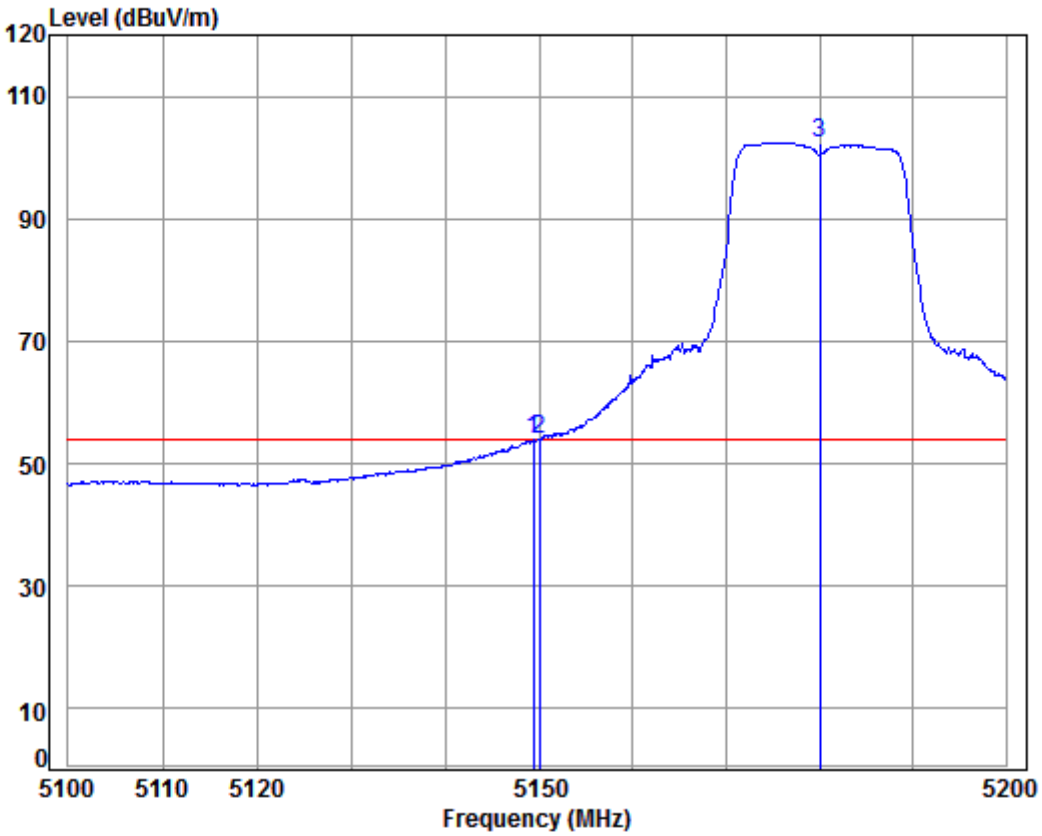
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.161	5.30	34.47	38.47	67.59	68.89	74.00	-5.11	Peak
2	5150.000	5.30	34.47	38.47	64.70	66.00	74.00	-8.00	Peak
3 pp	5180.000	5.30	34.46	38.46	108.39	109.69	74.00	35.69	Peak

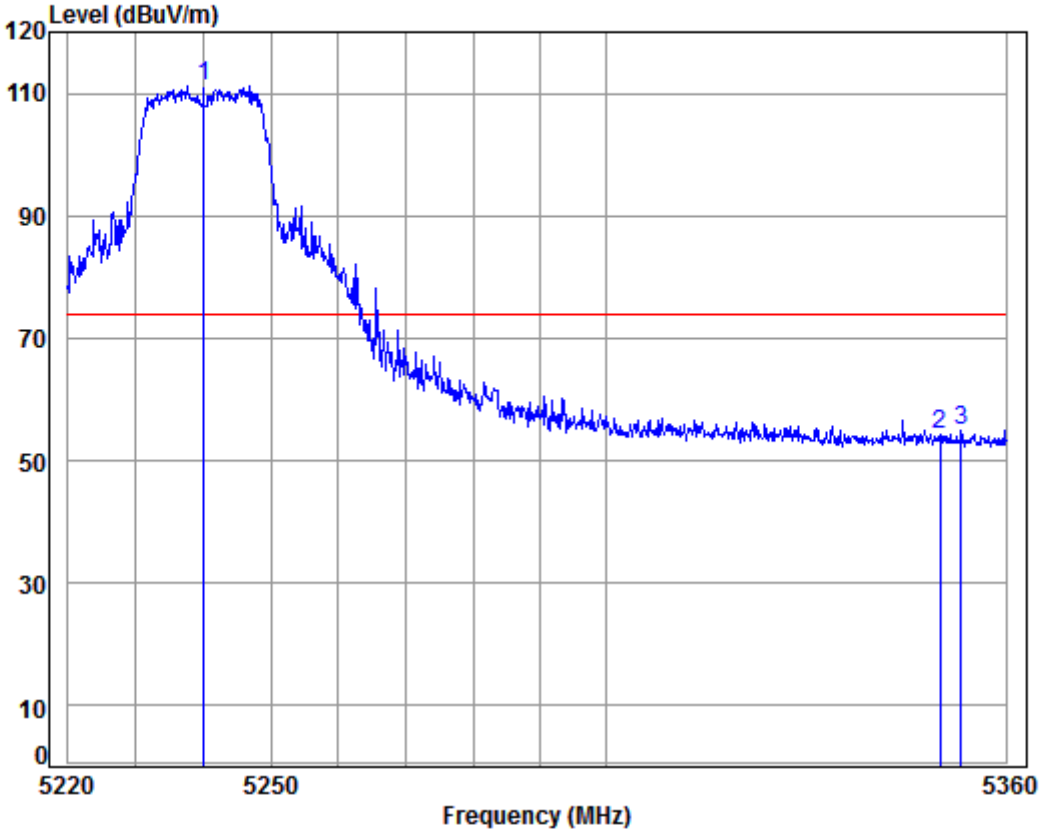
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5180 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	5.30	34.47	38.47	52.57	53.87	54.00	-0.13	Average
2	5150.000	5.30	34.47	38.47	52.67	53.97	54.00	-0.03	Average
3 pp	5180.000	5.30	34.46	38.46	101.10	102.40	54.00	48.40	Average

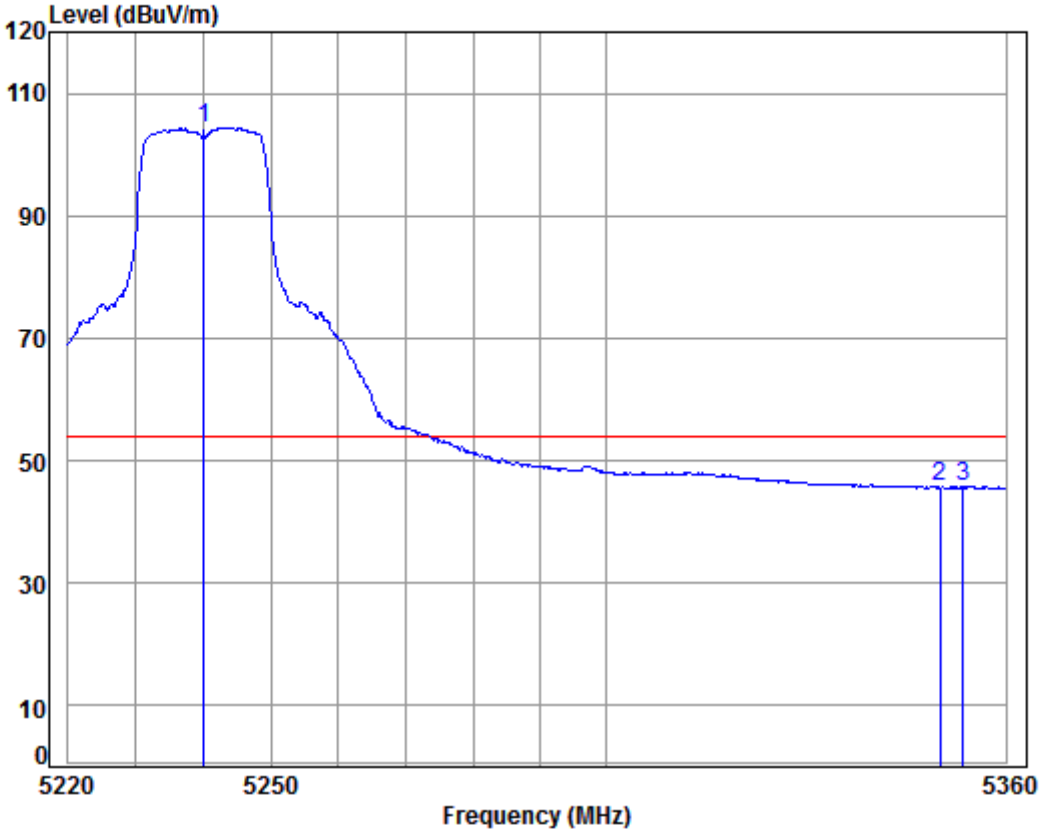
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11AC20

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5240.000	5.30	34.45	38.45	109.95	111.25	74.00	37.25	peak
2		5350.000	5.31	34.43	38.43	52.95	54.26	74.00	-19.74	peak
3		5353.195	5.31	34.43	38.43	53.69	55.00	74.00	-19.00	peak

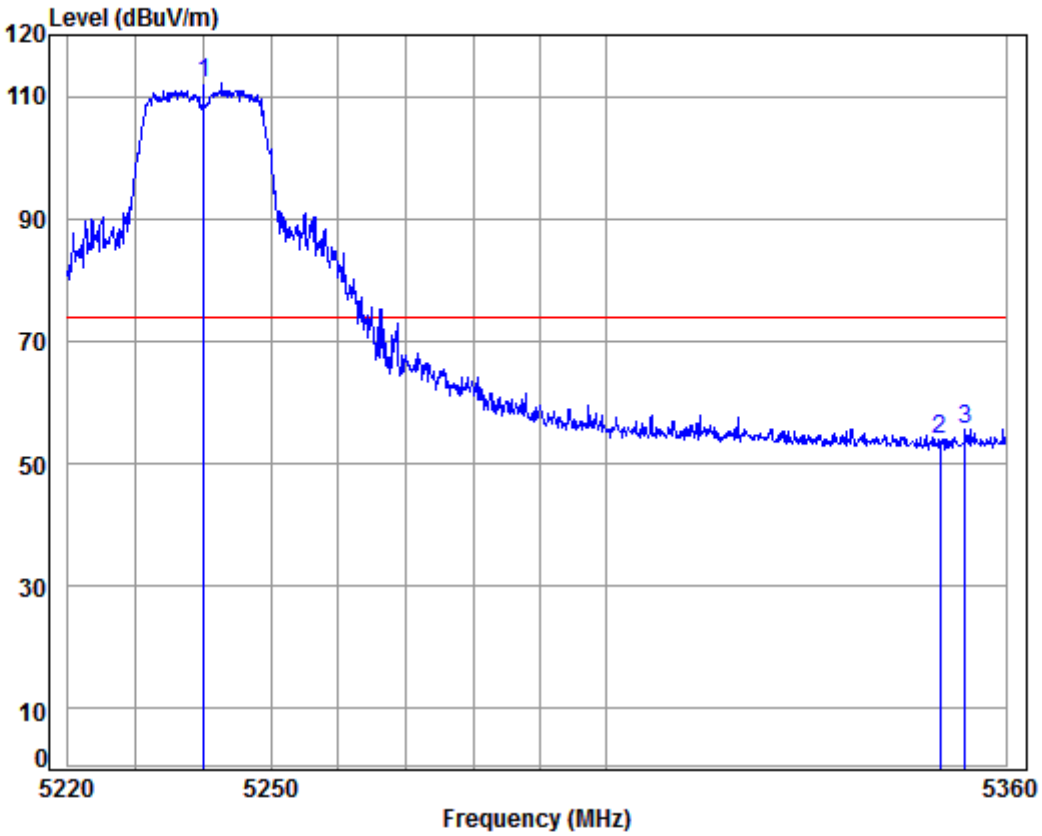
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	103.14	104.44	54.00	50.44	Average
2	5350.000	5.31	34.43	38.43	44.36	45.67	54.00	-8.33	Average
3	5353.479	5.31	34.43	38.43	44.52	45.83	54.00	-8.17	Average

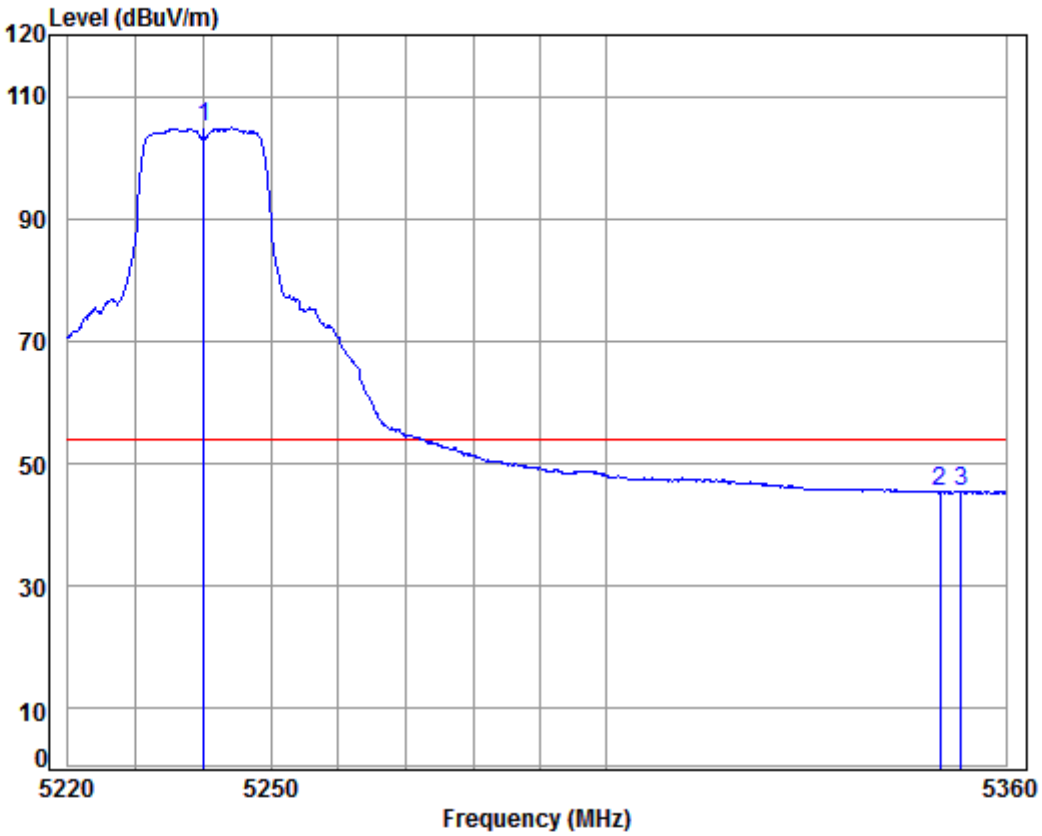
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	110.79	112.09	74.00	38.09	Peak
2	5350.000	5.31	34.43	38.43	52.60	53.91	74.00	-20.09	Peak
3	5353.762	5.31	34.43	38.43	54.30	55.61	74.00	-18.39	Peak

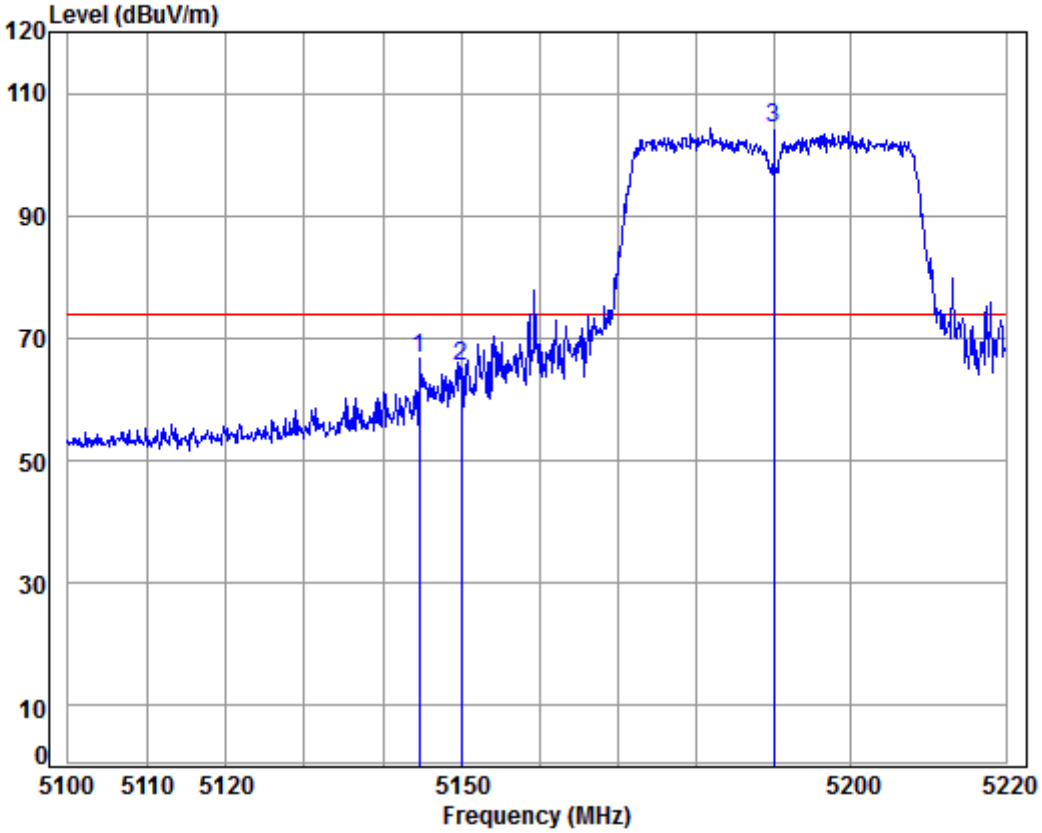
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5240 Band edge
Note : 5G WiFi 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5240.000	5.30	34.45	38.45	103.52	104.82	54.00	50.82	Average
2	5350.000	5.31	34.43	38.43	44.08	45.39	54.00	-8.61	Average
3	5353.195	5.31	34.43	38.43	44.14	45.45	54.00	-8.55	Average

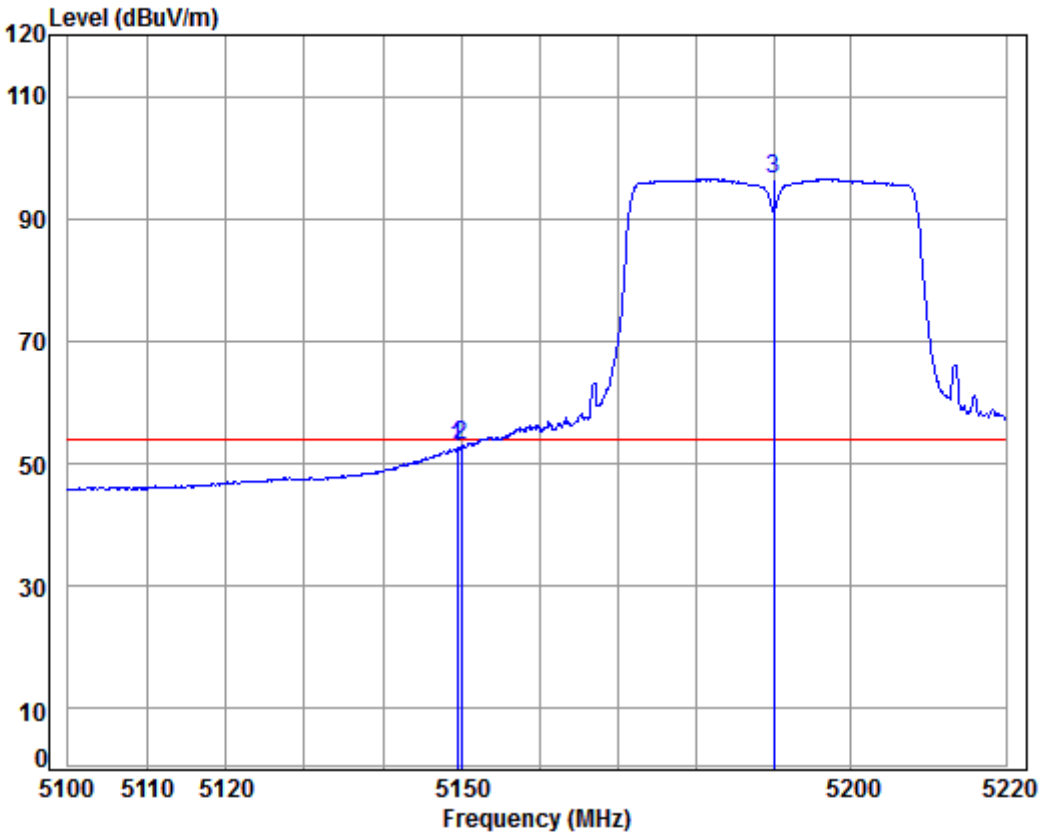
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.673	5.30	34.47	38.47	65.28	66.58	74.00	-7.42	peak
2	5150.000	5.30	34.47	38.47	64.17	65.47	74.00	-8.53	peak
3 pp	5190.000	5.30	34.46	38.46	102.85	104.15	74.00	30.15	peak

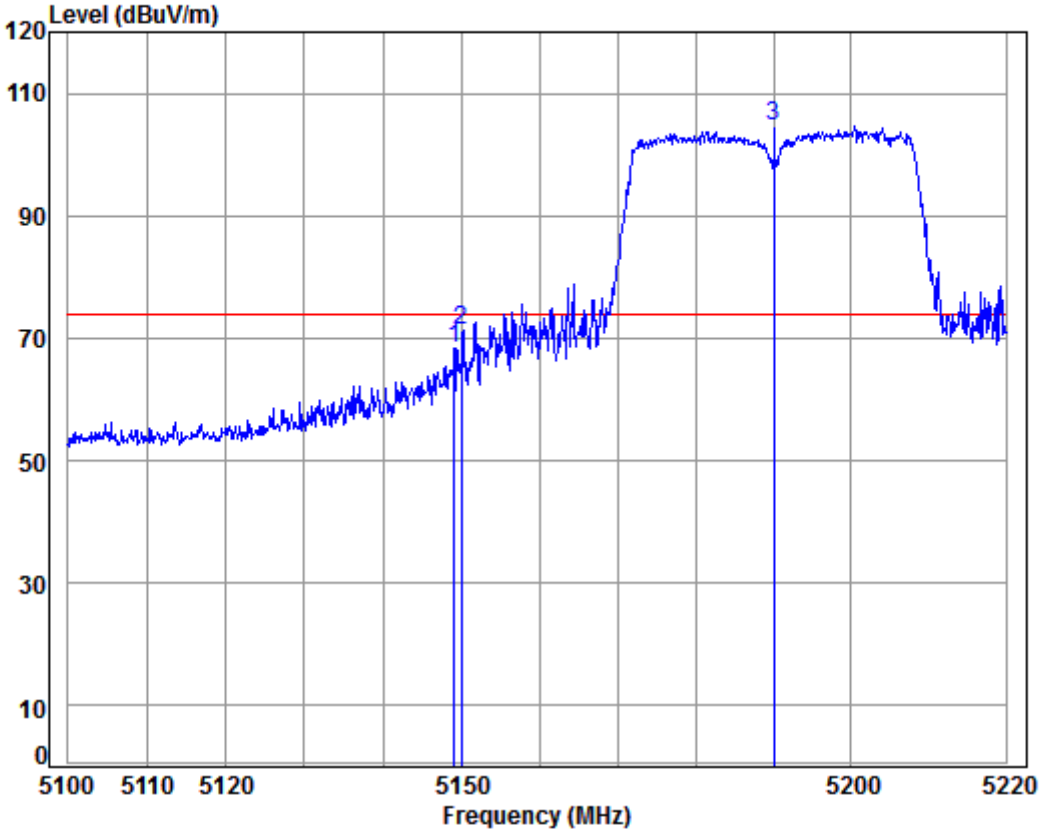
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	5.30	34.47	38.47	51.28	52.58	54.00	-1.42	Average
2	5150.000	5.30	34.47	38.47	51.59	52.89	54.00	-1.11	Average
3 pp	5190.000	5.30	34.46	38.46	95.14	96.44	54.00	42.44	Average

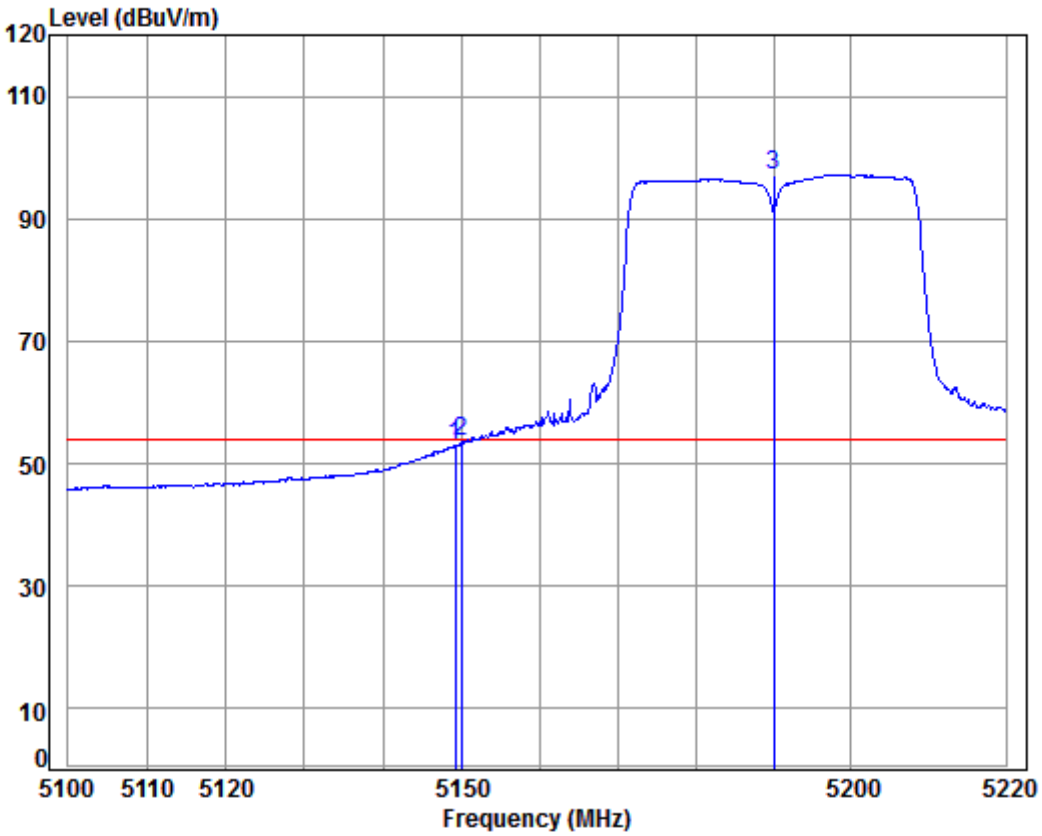
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.102	5.30	34.47	38.47	67.18	68.48	74.00	-5.52	Peak
2	5150.000	5.30	34.47	38.47	70.05	71.35	74.00	-2.65	Peak
3 pp	5190.000	5.30	34.46	38.46	103.44	104.74	74.00	30.74	Peak

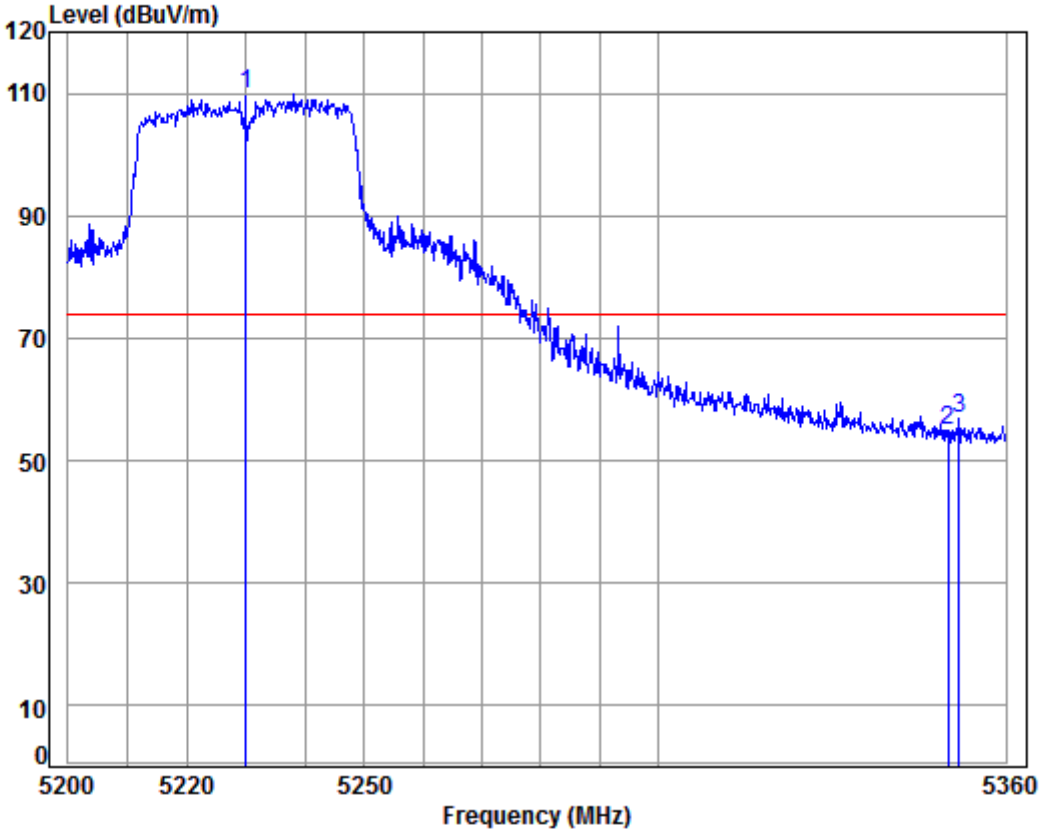
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5190 Band edge
Note : 5G WiFi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.222	5.30	34.47	38.47	51.78	53.08	54.00	-0.92	Average
2	5150.000	5.30	34.47	38.47	52.23	53.53	54.00	-0.47	Average
3 pp	5190.000	5.30	34.46	38.46	95.87	97.17	54.00	43.17	Average

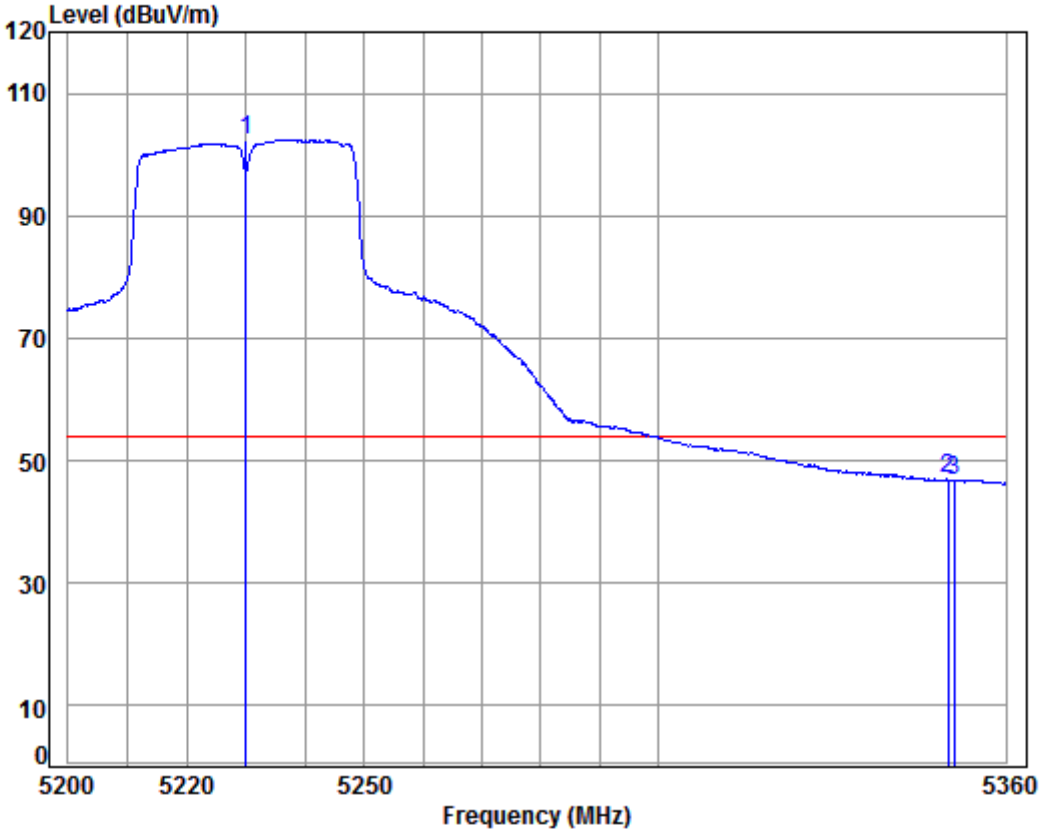
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11AC40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	108.52	109.82	74.00	35.82	peak
2		5350.000	5.31	34.43	38.43	53.54	54.85	74.00	-19.15	peak
3		5351.884	5.31	34.43	38.43	55.44	56.75	74.00	-17.25	peak

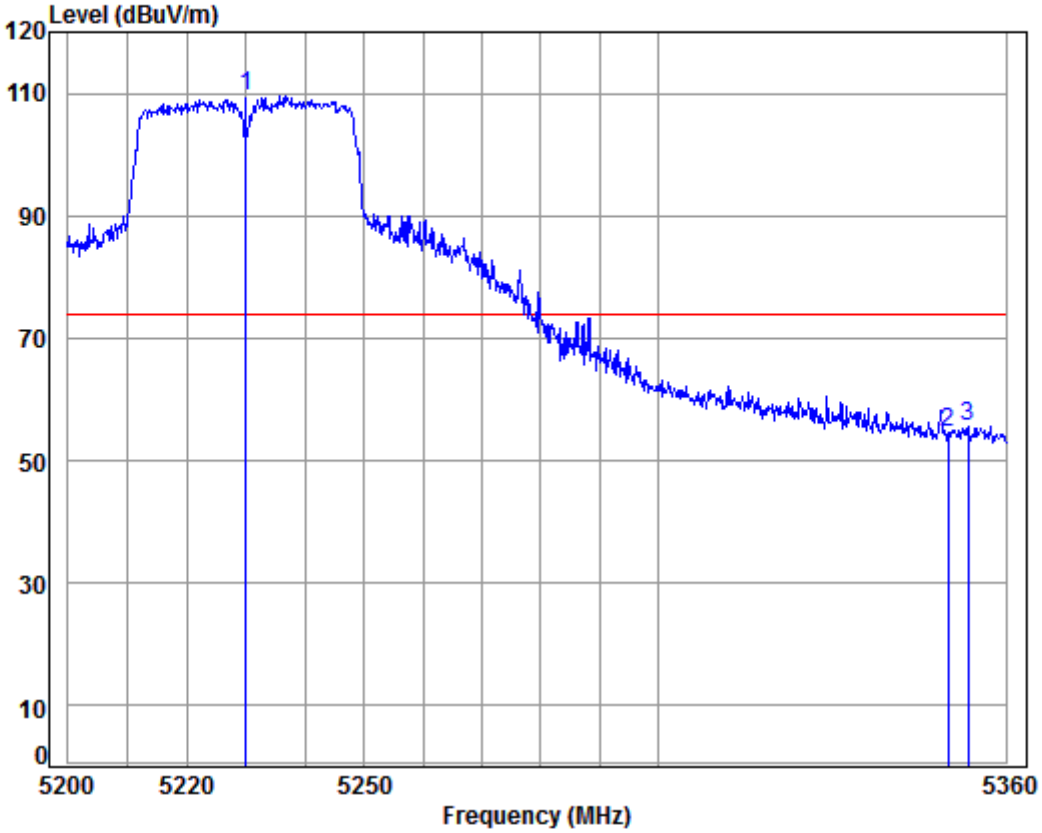
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11AC40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	101.10	102.40	54.00	48.40	Average
2		5350.000	5.31	34.43	38.43	45.62	46.93	54.00	-7.07	Average
3		5351.073	5.31	34.43	38.43	45.61	46.92	54.00	-7.08	Average

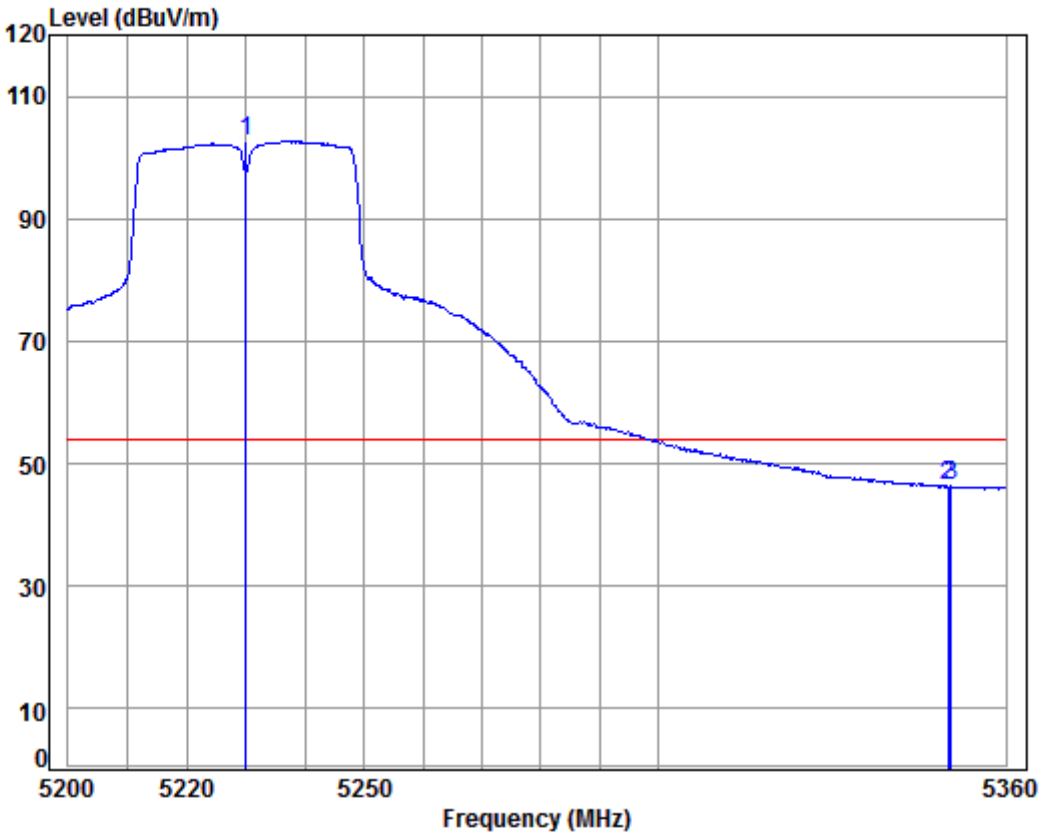
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5230.000	5.30	34.45	38.45	108.23	109.53	74.00	35.53	Peak
2	5350.000	5.31	34.43	38.43	53.38	54.69	74.00	-19.31	Peak
3	5353.506	5.31	34.43	38.43	54.37	55.68	74.00	-18.32	Peak

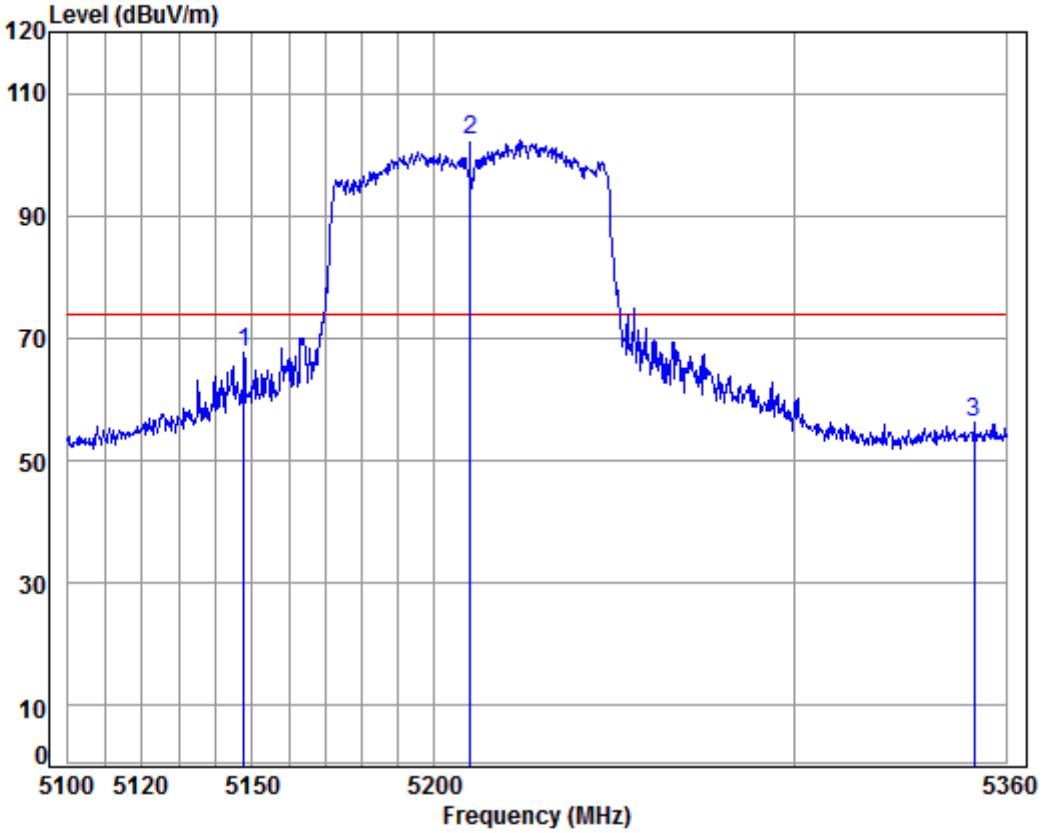
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5230 Band edge
Note : 5G WiFi 11AC40

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5230.000	5.30	34.45	38.45	101.44	102.74	54.00	48.74	Average
2		5350.000	5.31	34.43	38.43	44.99	46.30	54.00	-7.70	Average
3		5350.587	5.31	34.43	38.43	44.98	46.29	54.00	-7.71	Average

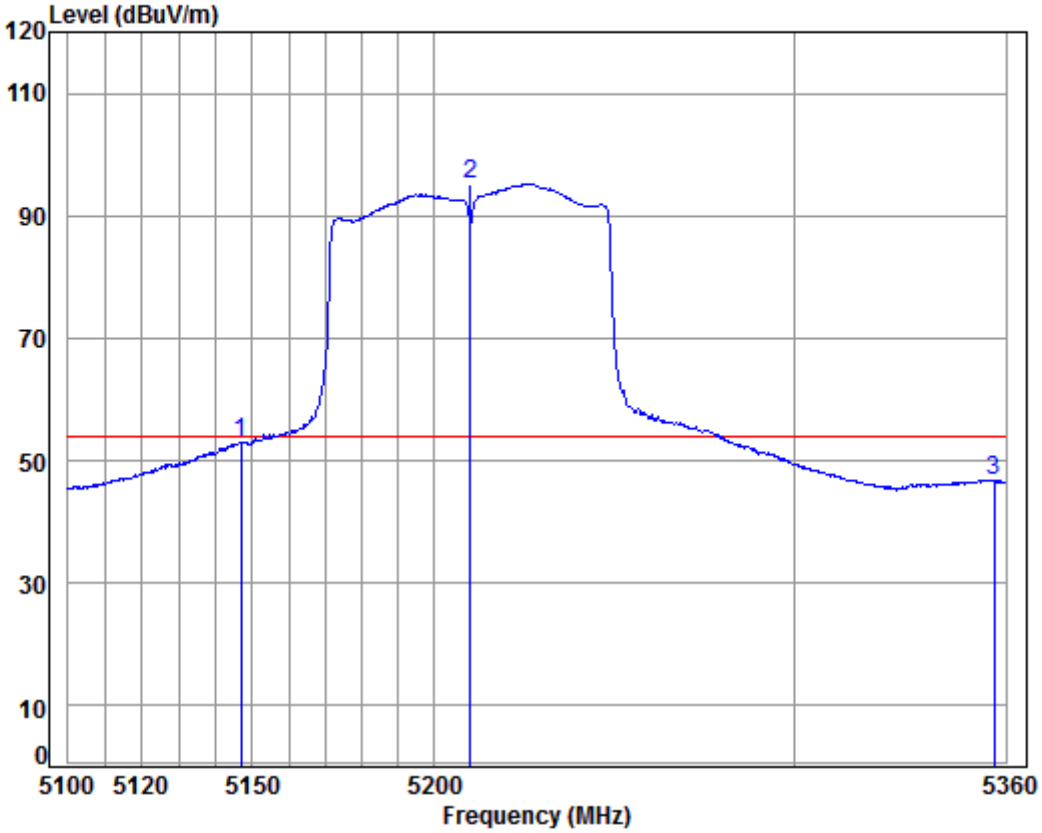
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5210 Band edge
Note : 5G WiFi 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.898	5.30	34.47	38.47	66.23	67.53	74.00	-6.47	peak
2 pp	5210.000	5.30	34.46	38.45	101.08	102.39	74.00	28.39	peak
3	5350.946	5.31	34.43	38.43	54.86	56.17	74.00	-17.83	peak

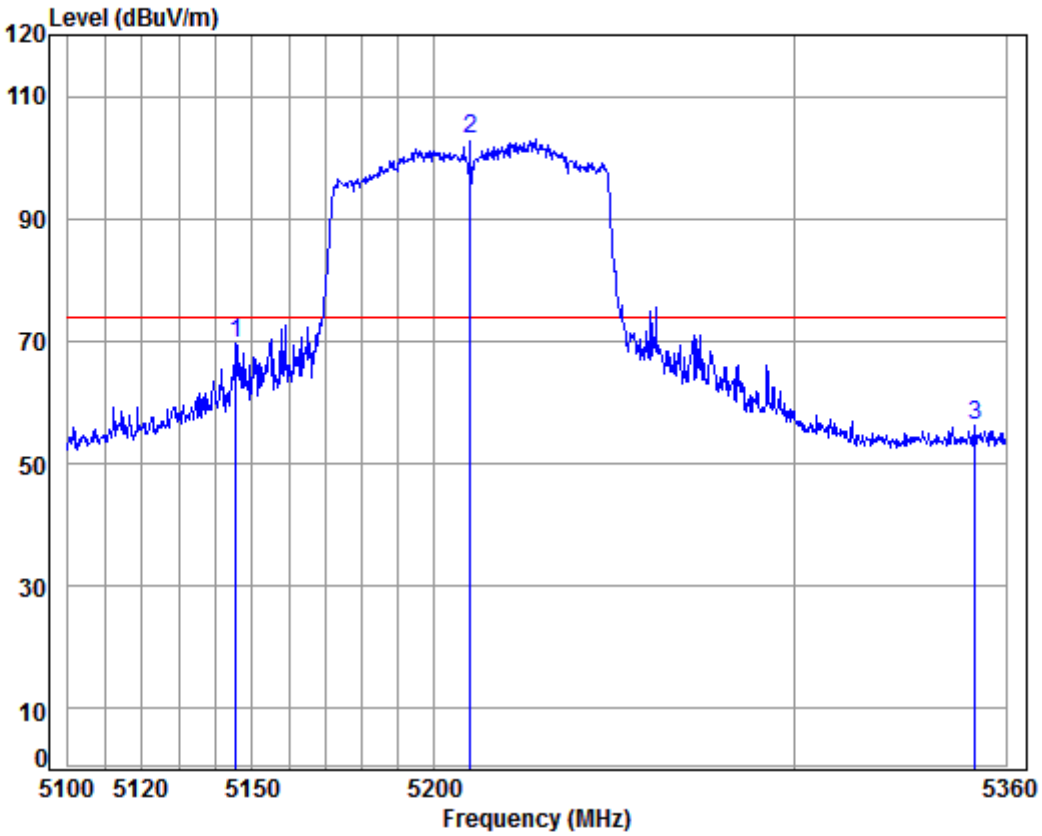
Mode:b; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No : 07162CR
Mode : 5210 Band edge
Note : 5G WiFi 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.875	5.30	34.47	38.47	51.81	53.11	54.00	-0.89	Average
2 pp	5210.000	5.30	34.46	38.45	93.89	95.20	54.00	41.20	Average
3	5356.537	5.31	34.43	38.42	45.53	46.85	54.00	-7.15	Average

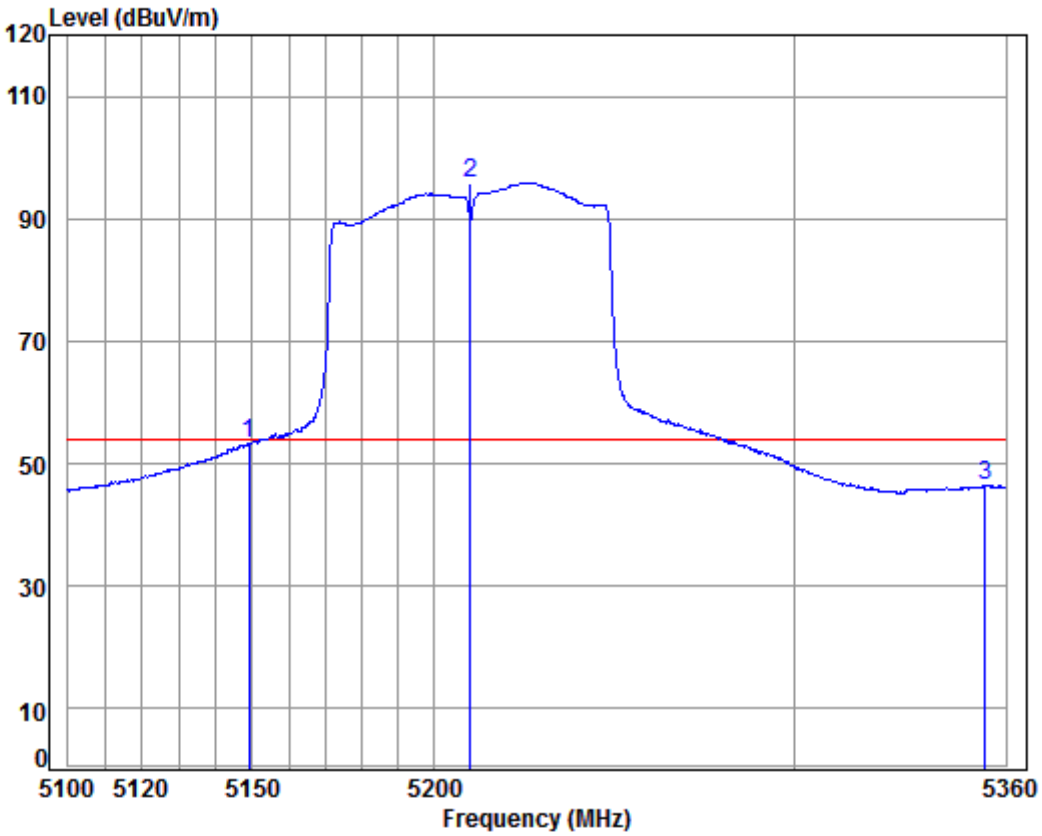
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5210 Band edge
Note : 5G WiFi 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.595	5.30	34.47	38.47	68.32	69.62	74.00	-4.38	Peak
2 pp	5210.000	5.30	34.46	38.45	101.63	102.94	74.00	28.94	Peak
3	5351.212	5.31	34.43	38.43	54.92	56.23	74.00	-17.77	Peak

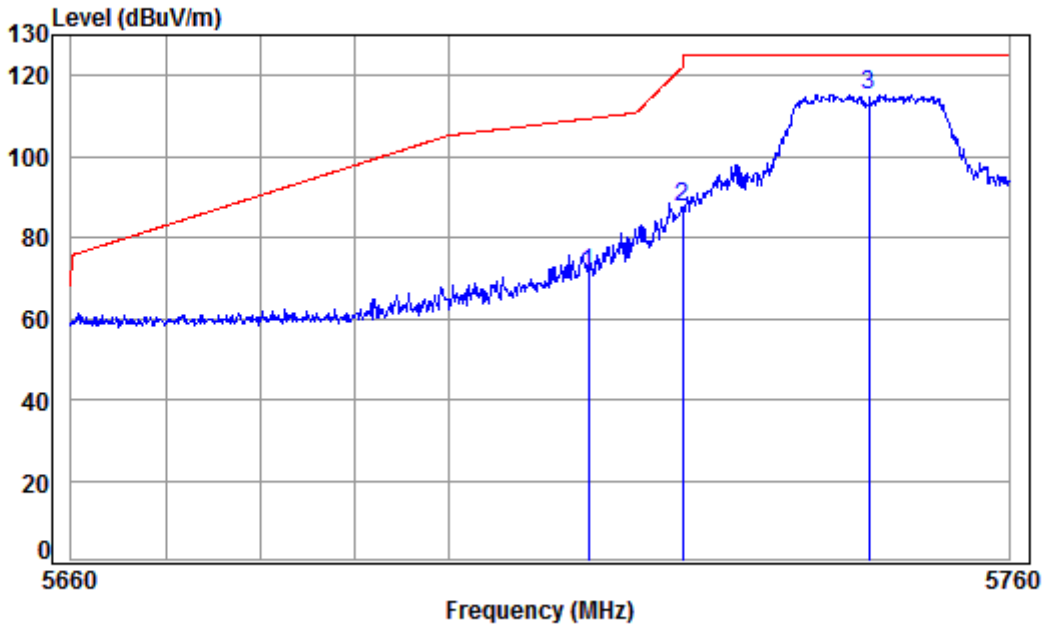
Mode:b; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL
Job No : 07162CR
Mode : 5210 Band edge
Note : 5G WiFi 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.178	5.30	34.47	38.47	52.02	53.32	54.00	-0.68	Average
2 pp	5210.000	5.30	34.46	38.45	94.65	95.96	54.00	41.96	Average
3	5354.140	5.31	34.43	38.42	45.08	46.40	54.00	-7.60	Average

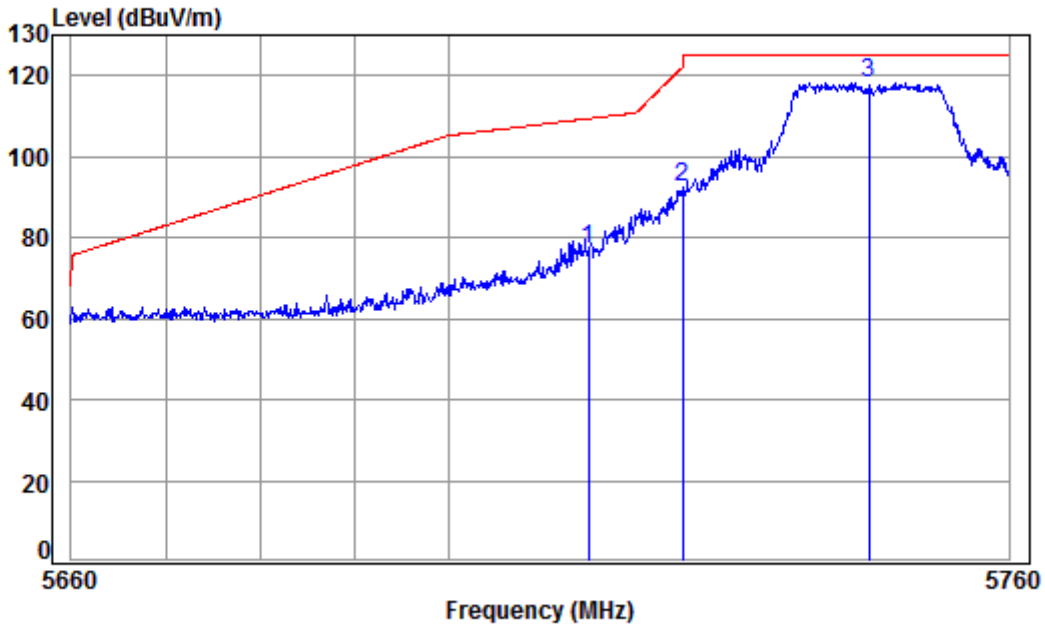
Mode:c; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5745 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	66.54	71.18	109.40	-38.22	peak
2	5725.000	8.48	34.54	38.35	82.79	87.46	122.20	-34.74	peak
3 pp	5745.000	8.50	34.55	38.35	110.43	115.13	125.20	-10.07	peak

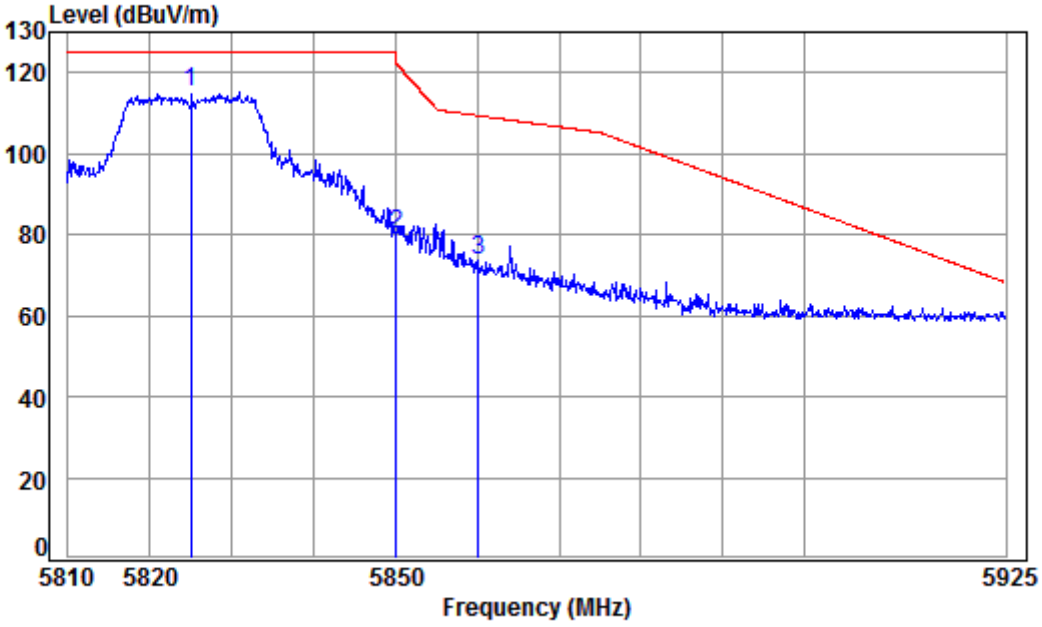
Mode:c; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5745 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	72.35	76.99	109.40	-32.41	peak
2	5725.000	8.48	34.54	38.35	87.64	92.31	122.20	-29.89	peak
3 pp	5745.000	8.50	34.55	38.35	113.44	118.14	125.20	-7.06	peak

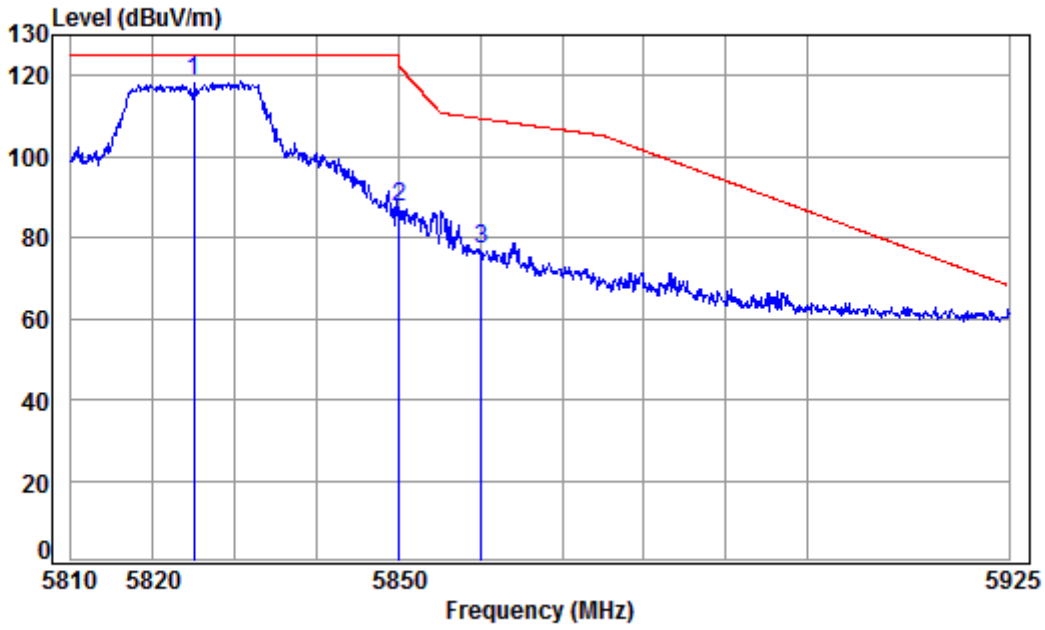
Mode:c; Polarization:Horizontal; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	110.36	115.21	125.20	-9.99	peak
2	5850.000	8.60	34.61	38.33	75.19	80.07	122.20	-42.13	peak
3	5860.000	8.61	34.62	38.33	68.57	73.47	109.40	-35.93	peak

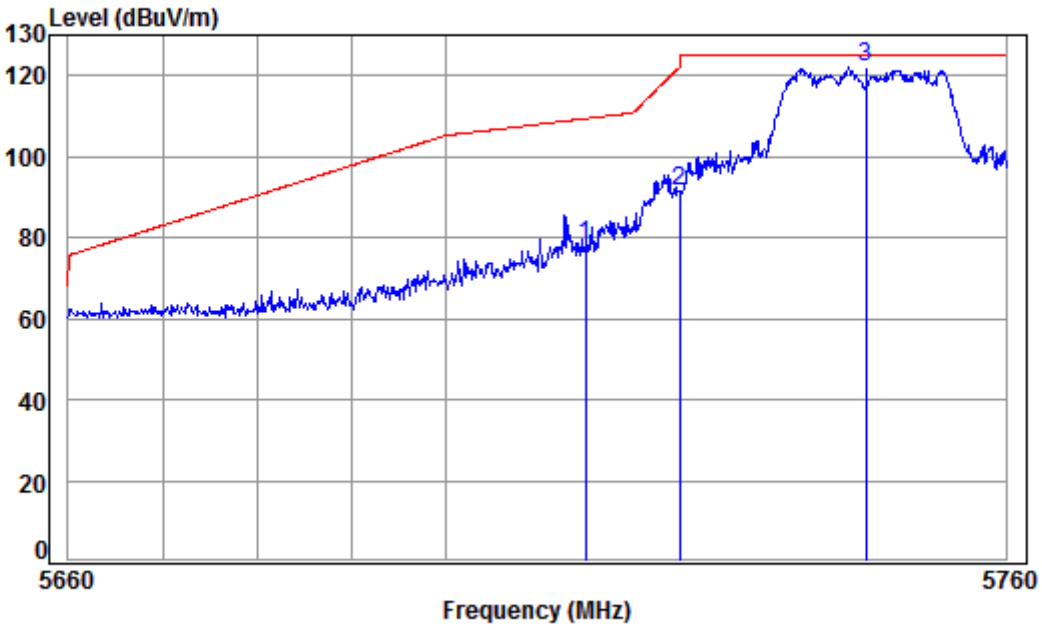
Mode:c; Polarization:Vertical; Modulation Type:802.11a; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5825 Band edge
: 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	113.85	118.70	125.20	-6.50	peak
2	5850.000	8.60	34.61	38.33	82.56	87.44	122.20	-34.76	peak
3	5860.000	8.61	34.62	38.33	71.99	76.89	109.40	-32.51	peak

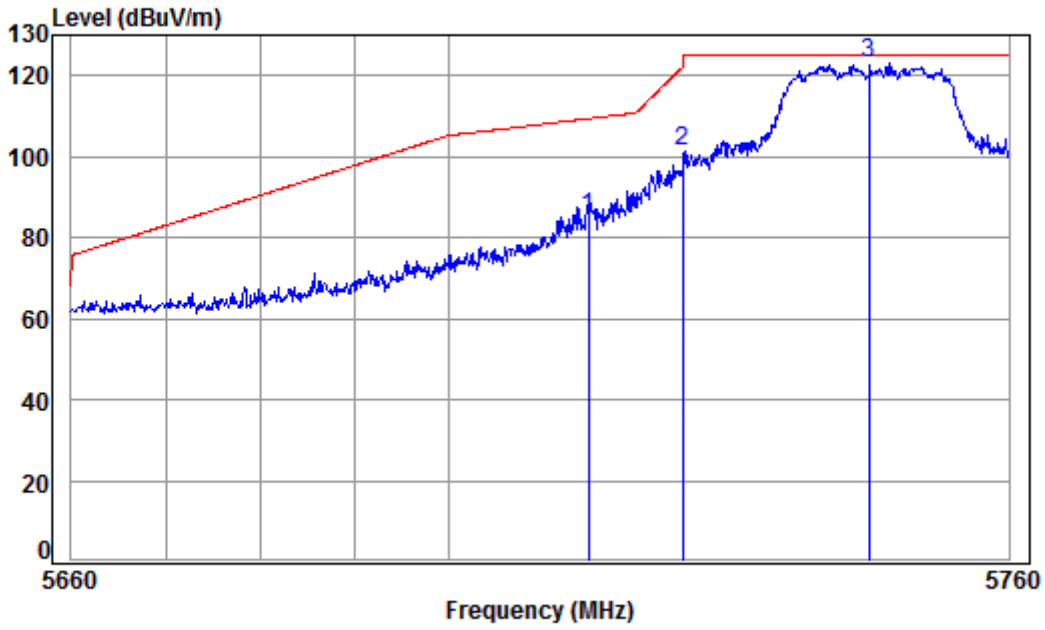
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5745 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	73.53	78.17	109.40	-31.23	peak
2	5725.000	8.48	34.54	38.35	87.00	91.67	122.20	-30.53	peak
3 pp	5745.000	8.50	34.55	38.35	117.16	121.86	125.20	-3.34	peak

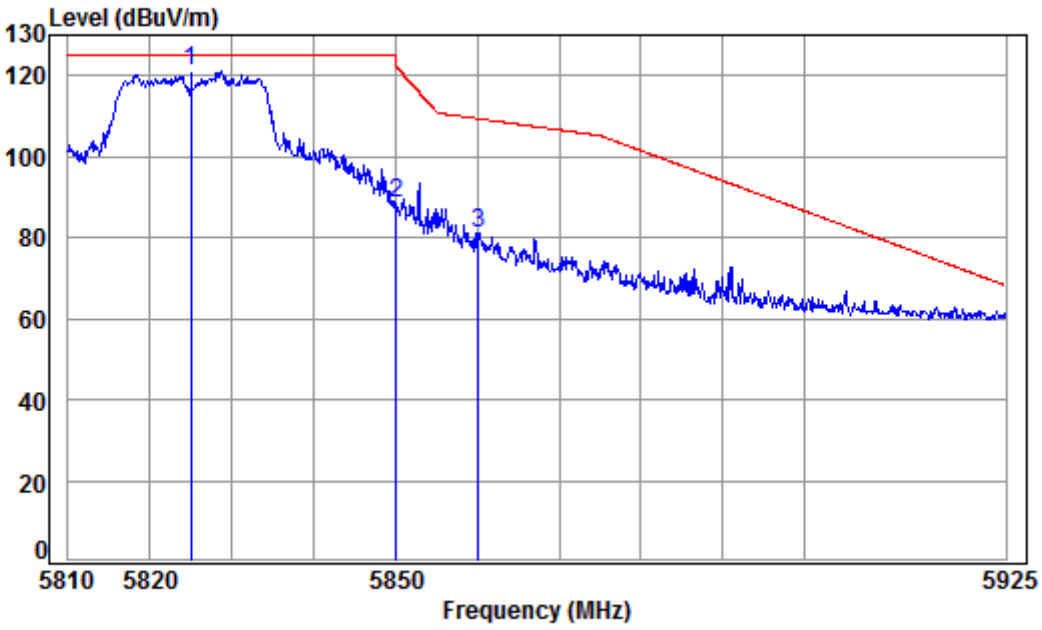
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5745 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	80.26	84.90	109.40	-24.50	peak
2	5725.000	8.48	34.54	38.35	96.76	101.43	122.20	-20.77	peak
3 pp	5745.000	8.50	34.55	38.35	118.28	122.98	125.20	-2.22	peak

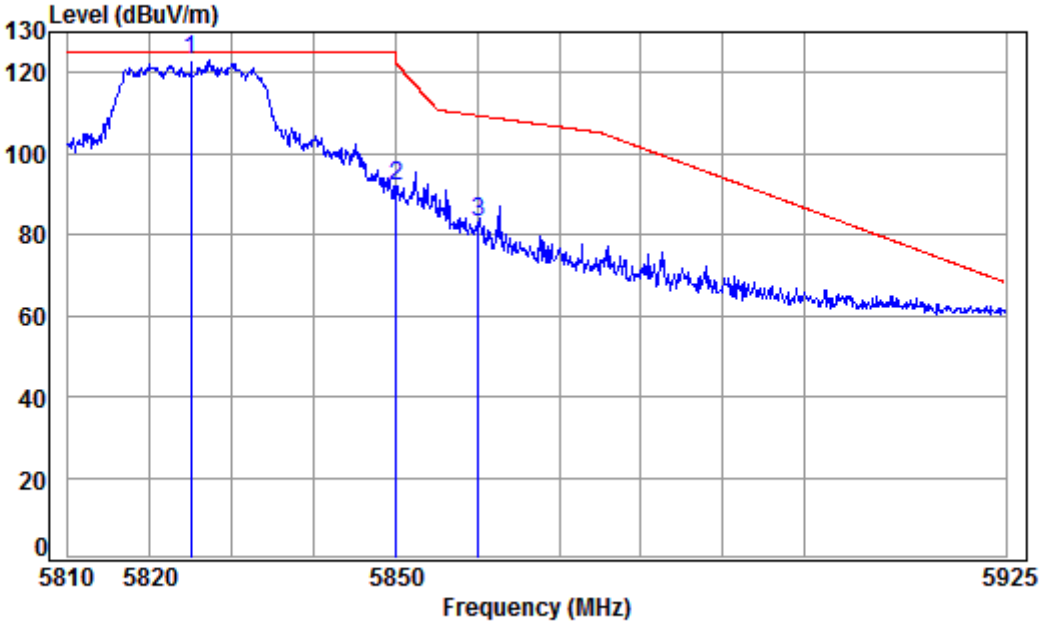
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5825 Band edge
: 5G WIFI 11N20

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5825.000	8.58	34.60	38.33	116.21	121.06	125.20	-4.14	peak
2		5850.000	8.60	34.61	38.33	83.47	88.35	122.20	-33.85	peak
3		5860.000	8.61	34.62	38.33	76.30	81.20	109.40	-28.20	peak

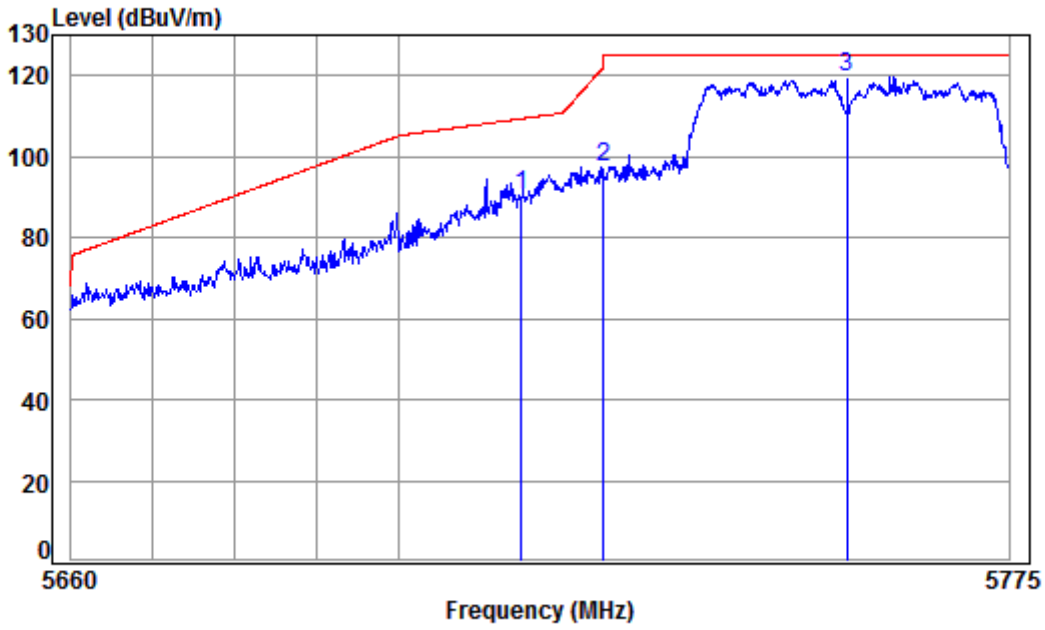
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5825 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5825.000	8.58	34.60	38.33	118.12	122.97	125.20	-2.23	peak
2	5850.000	8.60	34.61	38.33	87.17	92.05	122.20	-30.15	peak
3	5860.000	8.61	34.62	38.33	78.09	82.99	109.40	-26.41	peak

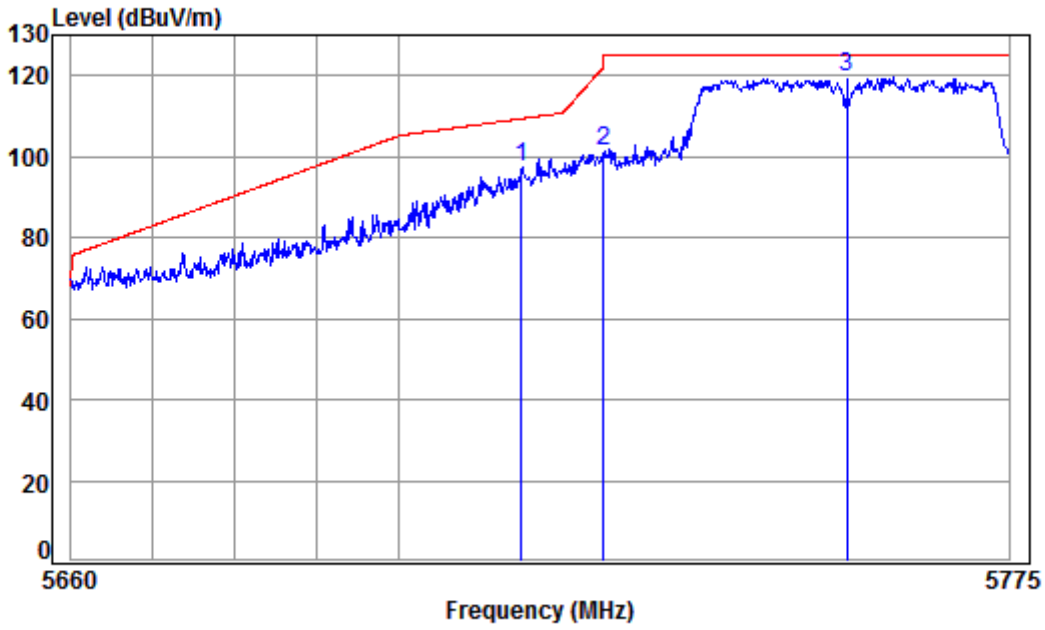
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5755 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	85.77	90.41	109.40	-18.99	peak
2	5725.000	8.48	34.54	38.35	92.58	97.25	122.20	-24.95	peak
3 pp	5755.000	8.51	34.56	38.35	114.71	119.43	125.20	-5.77	peak

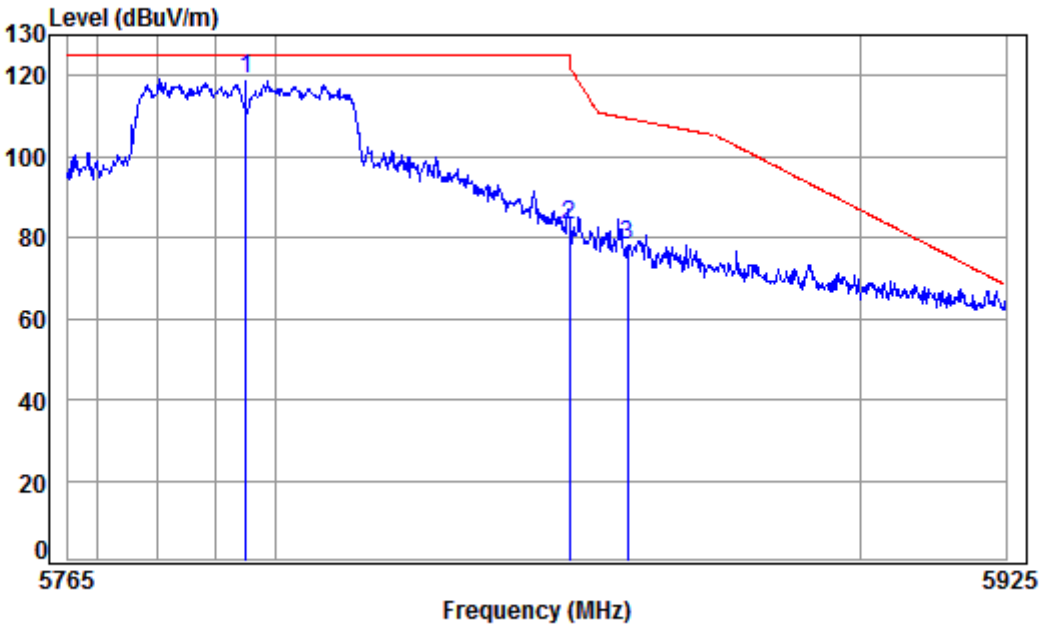
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5755 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	92.64	97.28	109.40	-12.12	peak
2	5725.000	8.48	34.54	38.35	96.55	101.22	122.20	-20.98	peak
3 pp	5755.000	8.51	34.56	38.35	114.74	119.46	125.20	-5.74	peak

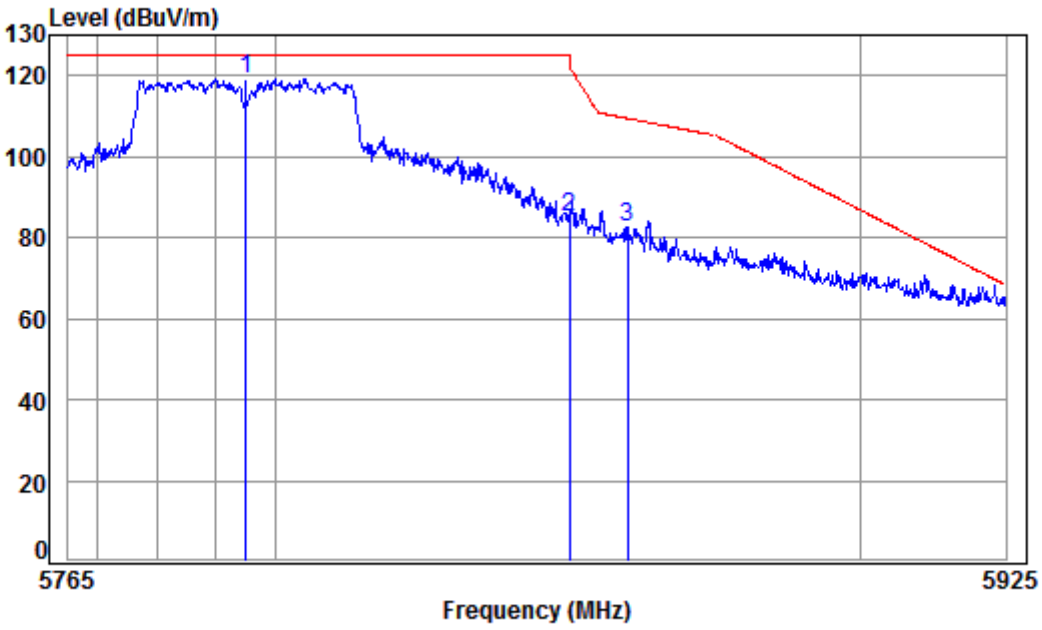
Mode:c; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5795 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 5795.000	8.55	34.58	38.34	114.16	118.95	125.20	-6.25	peak
2	5850.000	8.60	34.61	38.33	78.09	82.97	122.20	-39.23	peak
3	5860.000	8.61	34.62	38.33	73.26	78.16	109.40	-31.24	peak

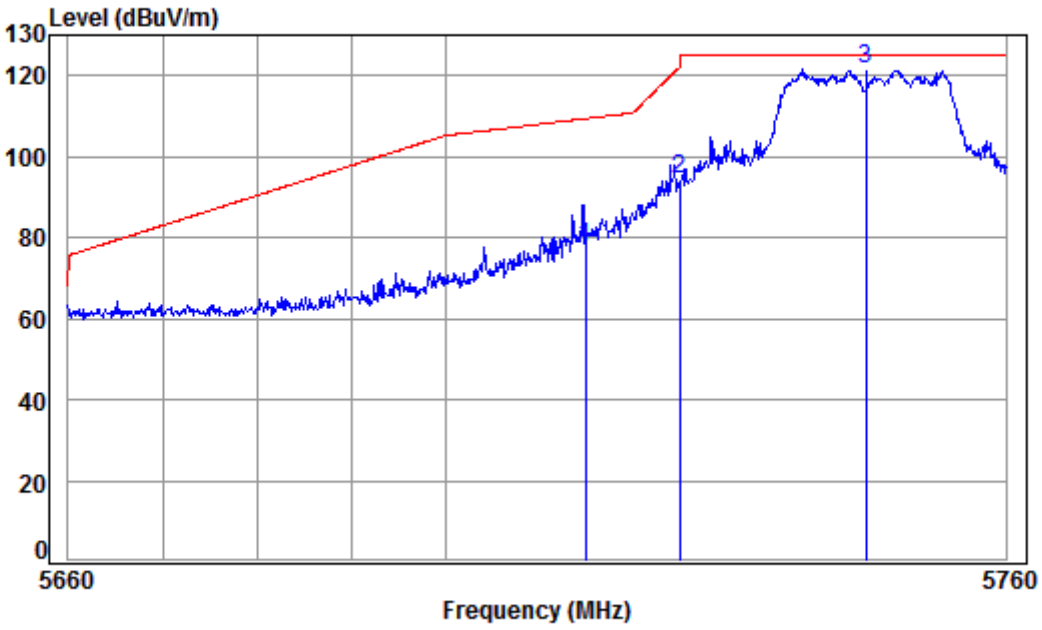
Mode:c; Polarization:Vertical; Modulation Type:802.11n; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5795 Band edge
: 5G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5795.000	8.55	34.58	38.34	114.30	119.09	125.20	-6.11	peak
2	5850.000	8.60	34.61	38.33	80.06	84.94	122.20	-37.26	peak
3	5860.000	8.61	34.62	38.33	77.81	82.71	109.40	-26.69	peak

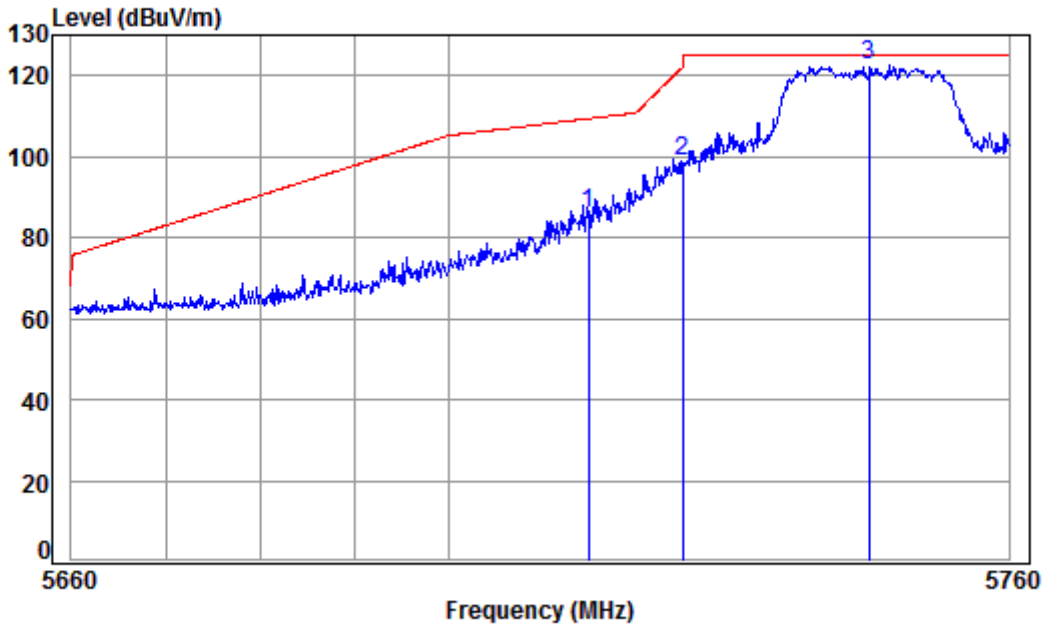
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5745 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	73.10	77.74	109.40	-31.66	peak
2	5725.000	8.48	34.54	38.35	89.71	94.38	122.20	-27.82	peak
3 pp	5745.000	8.50	34.55	38.35	117.09	121.79	125.20	-3.41	peak

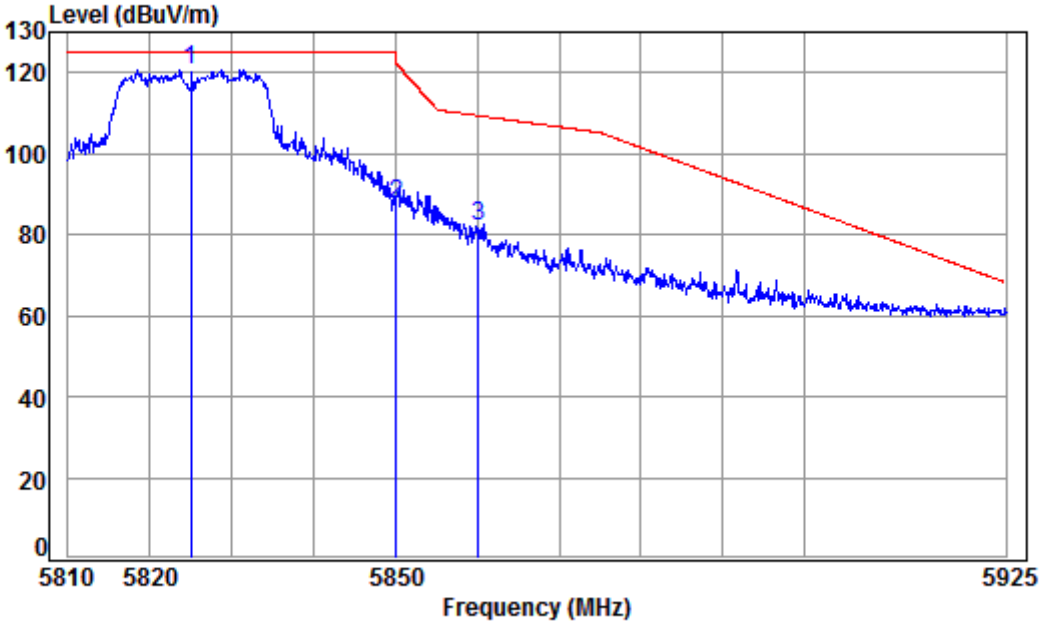
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5745 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	81.60	86.24	109.40	-23.16	peak
2	5725.000	8.48	34.54	38.35	94.17	98.84	122.20	-23.36	peak
3 pp	5745.000	8.50	34.55	38.35	118.03	122.73	125.20	-2.47	peak

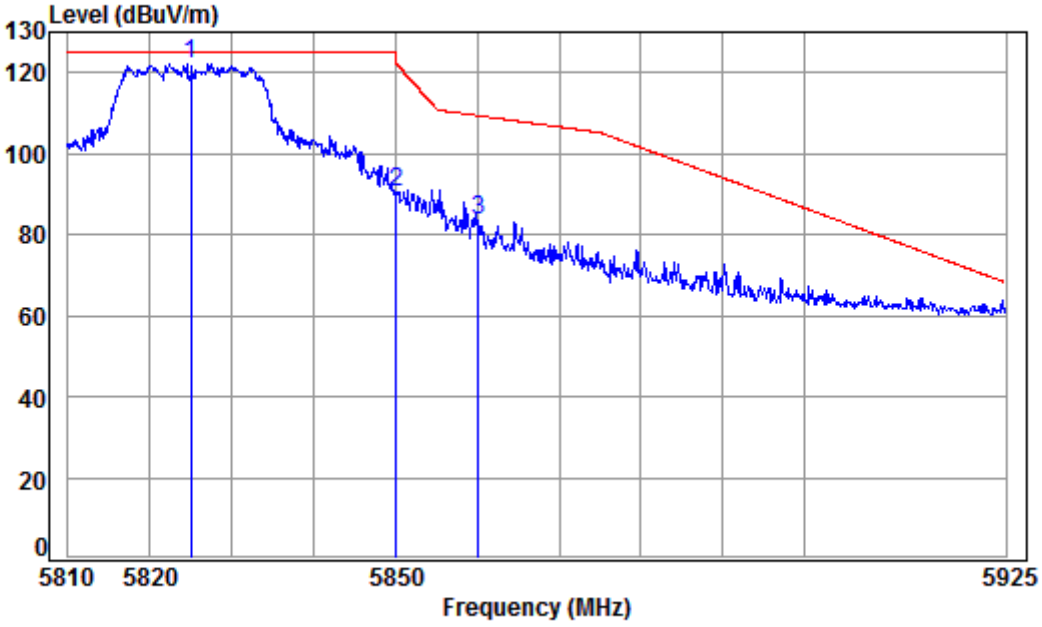
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5825 Band edge
: 5G WIFI 11AC20

		Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	5825.000	8.58	34.60	38.33	115.99	120.84	125.20	-4.36	peak
2		5850.000	8.60	34.61	38.33	82.41	87.29	122.20	-34.91	peak
3		5860.000	8.61	34.62	38.33	77.16	82.06	109.40	-27.34	peak

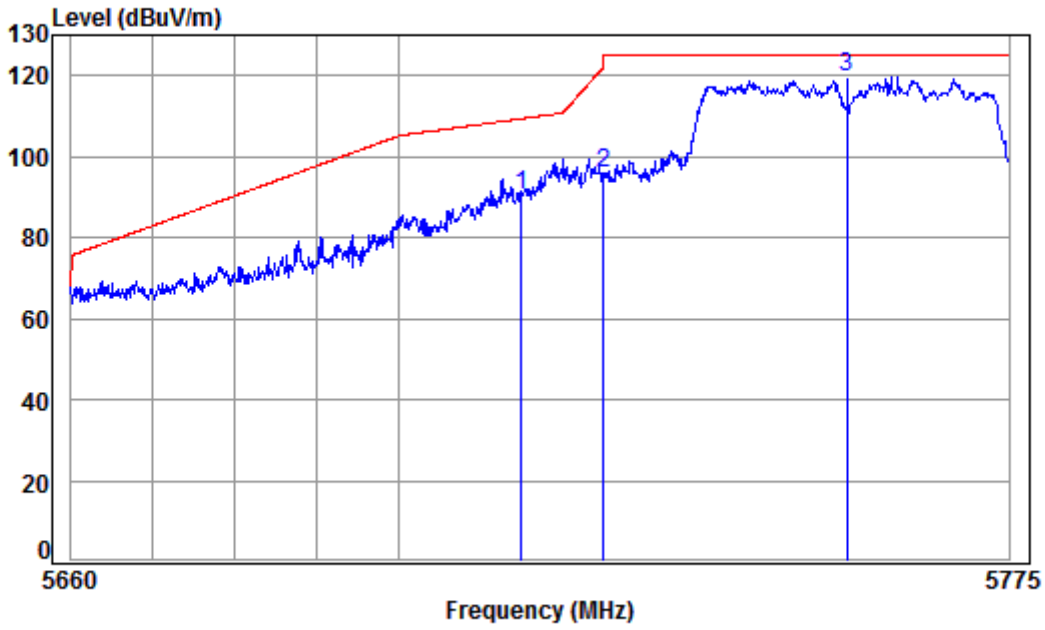
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5825 Band edge
: 5G WIFI 11AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5825.000	8.58	34.60	38.33	117.30	122.15	125.20	-3.05	peak
2	5850.000	8.60	34.61	38.33	85.34	90.22	122.20	-31.98	peak
3	5860.000	8.61	34.62	38.33	78.43	83.33	109.40	-26.07	peak

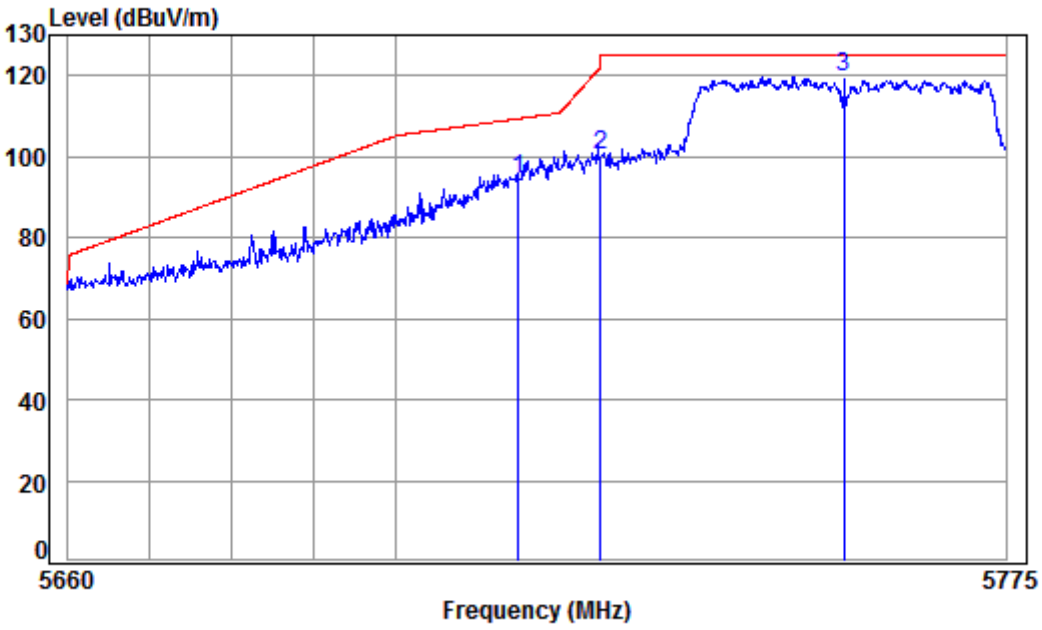
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5755 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	86.02	90.66	109.40	-18.74	peak
2	5725.000	8.48	34.54	38.35	91.45	96.12	122.20	-26.08	peak
3 pp	5755.000	8.51	34.56	38.35	114.93	119.65	125.20	-5.55	peak

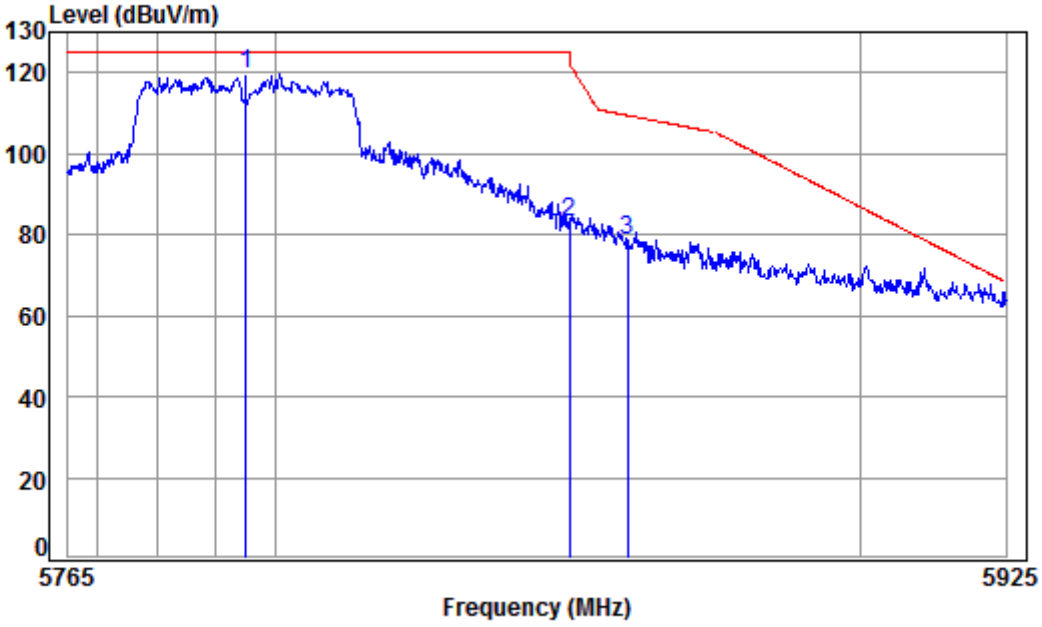
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5755 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.53	38.36	89.88	94.52	109.40	-14.88	peak
2	5725.000	8.48	34.54	38.35	95.74	100.41	122.20	-21.79	peak
3 pp	5755.000	8.51	34.56	38.35	114.81	119.53	125.20	-5.67	peak

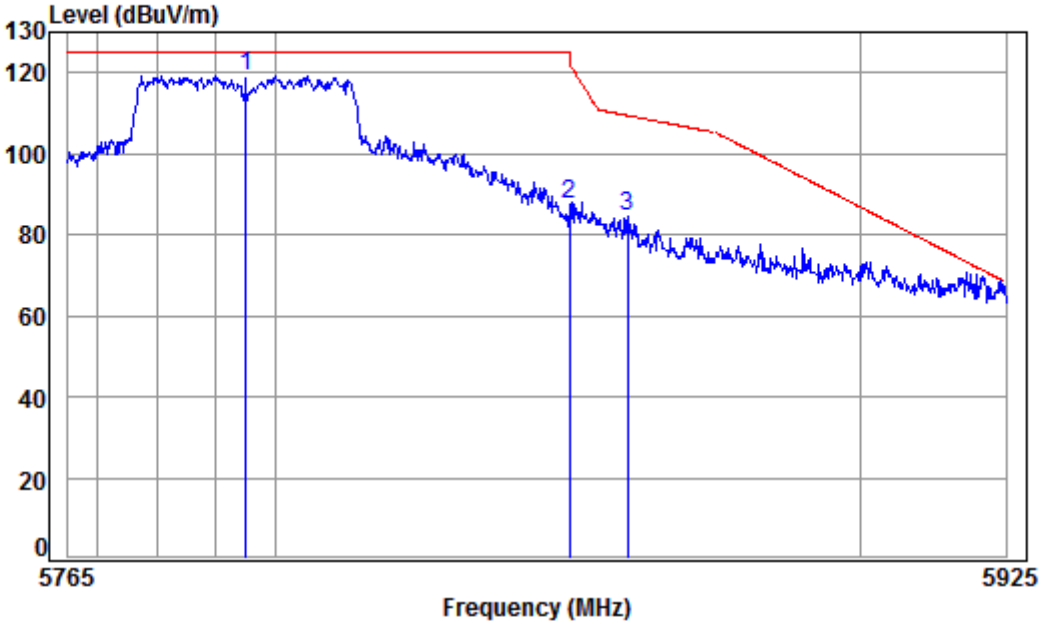
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5795.000	8.55	34.58	38.34	114.67	119.46	125.20	-5.74	peak
2	5850.000	8.60	34.61	38.33	78.31	83.19	122.20	-39.01	peak
3	5860.000	8.61	34.62	38.33	73.84	78.74	109.40	-30.66	peak

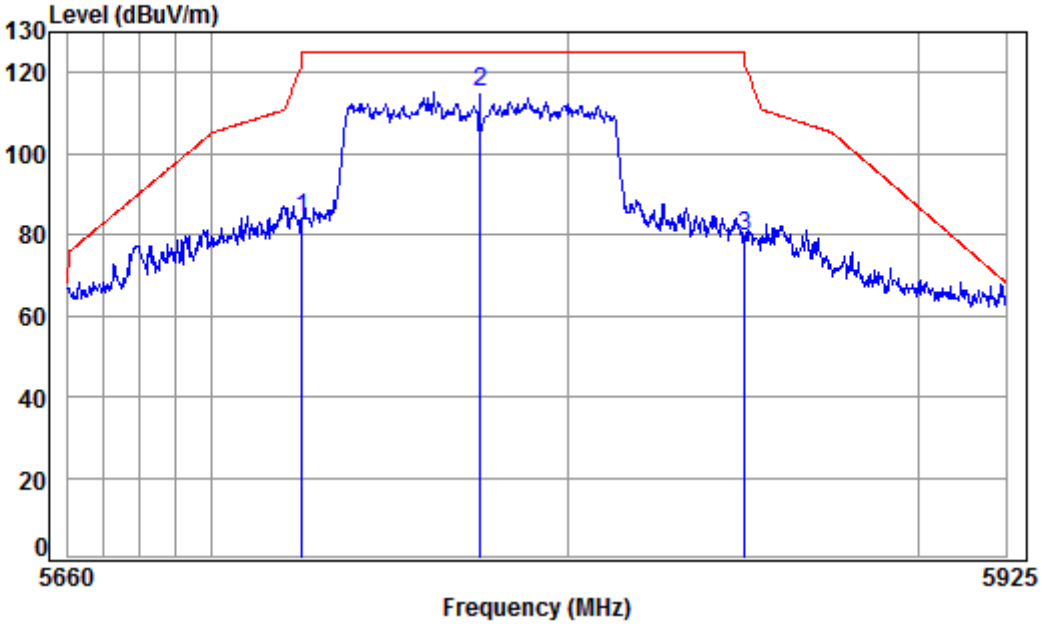
Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5795.000	8.55	34.58	38.34	114.30	119.09	125.20	-6.11	peak
2	5850.000	8.60	34.61	38.33	82.63	87.51	122.20	-34.69	peak
3	5860.000	8.61	34.62	38.33	79.53	84.43	109.40	-24.97	peak

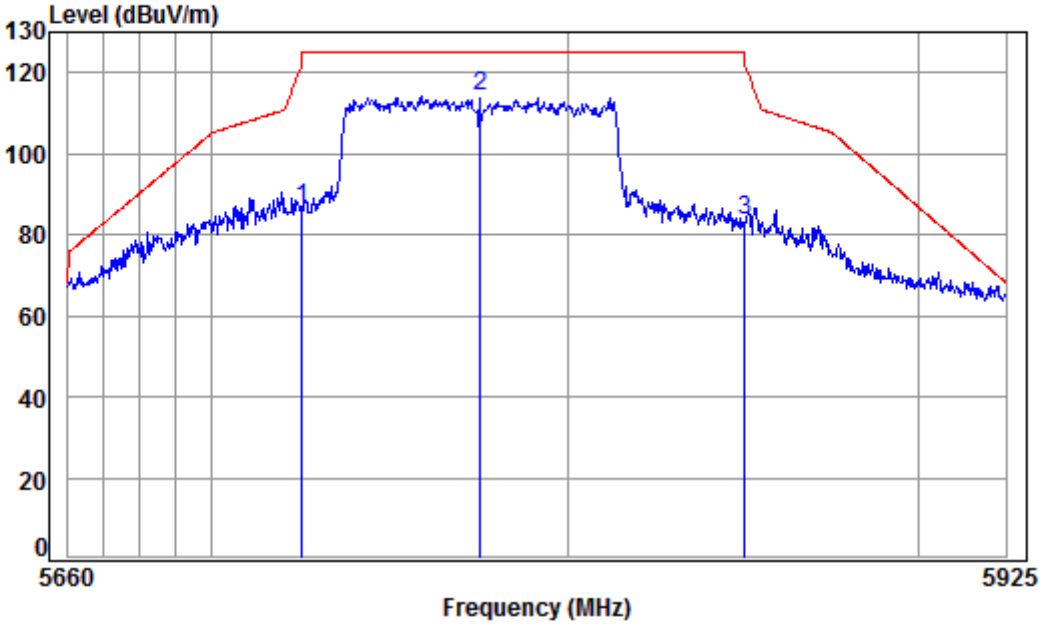
Mode:c; Polarization:Horizontal; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Middle



Condition: 3m HORIZONTAL
Job No: : 07162CR
Mode: : 5775 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5725.000	8.48	34.54	38.35	79.42	84.09	122.20	-38.11	peak
2 pp	5775.000	8.53	34.57	38.35	110.27	115.02	125.20	-10.18	peak
3	5850.000	8.60	34.61	38.33	74.78	79.66	122.20	-42.54	peak

Mode:c; Polarization:Vertical; Modulation Type:802.11ac; bandwidth:80MHz; Channel:Middle



Condition: 3m VERTICAL
Job No: : 07162CR
Mode: : 5775 Band edge
: 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5725.000	8.48	34.54	38.35	82.01	86.68	122.20	-35.52	peak
2 pp	5775.000	8.53	34.57	38.35	109.51	114.26	125.20	-10.94	peak
3	5850.000	8.60	34.61	38.33	78.49	83.37	122.20	-38.83	peak

7.9 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart E 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 0 degrees to 35 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:

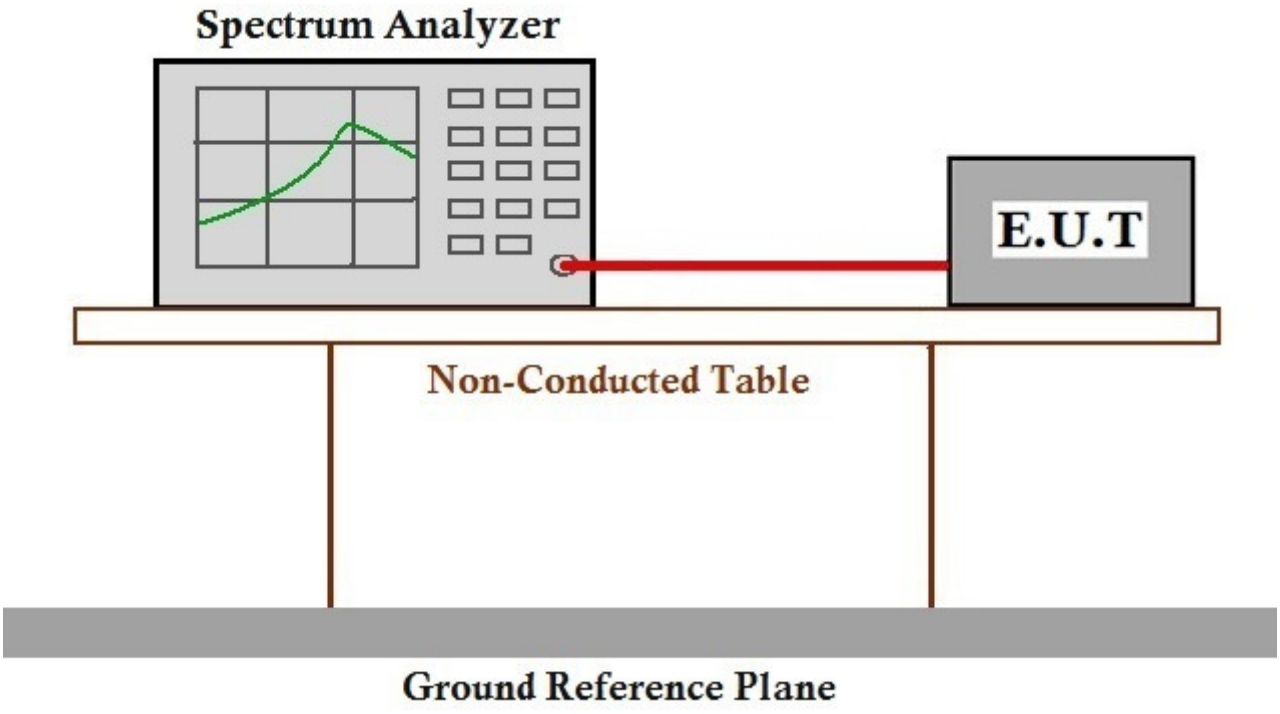
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:

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 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 15.407

Test mode:	802.11a	Frequency(MHz):	5180

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5179.4398	Pass
30		5179.4406	Pass
20		5179.4413	Pass
10		5179.4408	Pass
0		5179.4400	Pass
25	138	5179.4398	Pass
	120	5179.4406	Pass
	102	5179.4412	Pass

Test mode:	802.11a	Frequency(MHz):	5200

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5198.0385	Pass
30		5198.0389	Pass
20		5198.0393	Pass
10		5198.0388	Pass
0		5198.0384	Pass
25	138	5198.0380	Pass
	120	5198.0389	Pass
	102	5198.0398	Pass

Test mode:	802.11a	Frequency(MHz):	5240

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5238.8869	Pass
30		5238.8873	Pass
20		5238.8877	Pass
10		5238.8868	Pass
0		5238.8860	Pass
25	138	5238.8865	Pass
	120	5238.8873	Pass
	102	5238.8882	Pass

Test mode:	802.11a	Frequency(MHz):	5745

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5746.6405	Pass
30		5746.6414	Pass
20		5746.6418	Pass
10		5746.6415	Pass
0		5746.6411	Pass
25	138	5746.6407	Pass
	120	5746.6414	Pass
	102	5746.6419	Pass

Test mode:	802.11a	Frequency(MHz):	5785

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5785.2943	Pass
30		5785.2951	Pass
20		5785.2954	Pass
10		5785.2948	Pass
0		5785.2943	Pass
25	138	5785.2950	Pass
	120	5785.2951	Pass
	102	5785.2956	Pass

Test mode:	802.11a	Frequency(MHz):	5825

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5826.5484	Pass
30		5826.5492	Pass
20		5826.5494	Pass
10		5826.5486	Pass
0		5826.5483	Pass
25	138	5826.5482	Pass
	120	5826.5492	Pass
	102	5826.5493	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5180

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5178.7452	Pass
30		5178.7459	Pass
20		5178.7462	Pass
10		5178.7457	Pass
0		5178.7454	Pass
25	138	5178.7456	Pass
	120	5178.7459	Pass
	102	5178.7461	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5200

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5198.9323	Pass
30		5198.9324	Pass
20		5198.9333	Pass
10		5198.9328	Pass
0		5198.9326	Pass
25	138	5198.9316	Pass
	120	5198.9324	Pass
	102	5198.9327	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5240

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5239.9567	Pass
30		5239.9570	Pass
20		5239.9571	Pass
10		5239.9568	Pass
0		5239.9562	Pass
25	138	5239.9562	Pass
	120	5239.9570	Pass
	102	5239.9575	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5745

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5746.9792	Pass
30		5746.9795	Pass
20		5746.9799	Pass
10		5746.9794	Pass
0		5746.9785	Pass
25	138	5746.9786	Pass
	120	5746.9795	Pass
	102	5746.9801	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5785

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5784.7083	Pass
30		5784.7090	Pass
20		5784.7094	Pass
10		5784.7085	Pass
0		5784.7083	Pass
25	138	5784.7081	Pass
	120	5784.7090	Pass
	102	5784.7093	Pass

Test mode:	802.11n(HT20)	Frequency(MHz):	5825

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5823.2085	Pass
30		5823.2090	Pass
20		5823.2093	Pass
10		5823.2085	Pass
0		5823.2078	Pass
25	138	5823.2084	Pass
	120	5823.2090	Pass
	102	5823.2093	Pass

Test mode:	802.11n(HT40)	Frequency(MHz):	5190

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5189.4771	Pass
30		5189.4775	Pass
20		5189.4782	Pass
10		5189.4773	Pass
0		5189.4765	Pass
25	138	5189.4770	Pass
	120	5189.4775	Pass
	102	5189.4777	Pass

Test mode:	802.11n(HT40)	Frequency(MHz):	5230

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5228.9950	Pass
30		5228.9959	Pass
20		5228.9967	Pass
10		5228.9965	Pass
0		5228.9960	Pass
25	138	5228.9951	Pass
	120	5228.9959	Pass
	102	5228.9966	Pass

Test mode:	802.11n(HT40)	Frequency(MHz):	5755

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5753.3294	Pass
30		5753.3299	Pass
20		5753.3308	Pass
10		5753.3299	Pass
0		5753.3290	Pass
25	138	5753.3292	Pass
	120	5753.3299	Pass
	102	5753.3303	Pass

Test mode:	802.11n(HT40)	Frequency(MHz):	5795

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5794.5260	Pass
30		5794.5266	Pass
20		5794.5269	Pass
10		5794.5262	Pass
0		5794.5260	Pass
25	138	5794.5256	Pass
	120	5794.5266	Pass
	102	5794.5276	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5180

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5178.3232	Pass
30		5178.3238	Pass
20		5178.3244	Pass
10		5178.3242	Pass
0		5178.3234	Pass
25	138	5178.3236	Pass
	120	5178.3238	Pass
	102	5178.3245	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5200

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5198.1650	Pass
30		5198.1660	Pass
20		5198.1665	Pass
10		5198.1658	Pass
0		5198.1652	Pass
25	138	5198.1651	Pass
	120	5198.1660	Pass
	102	5198.1665	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5240

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5239.1201	Pass
30		5239.1209	Pass
20		5239.1218	Pass
10		5239.1209	Pass
0		5239.1204	Pass
25	138	5239.1206	Pass
	120	5239.1209	Pass
	102	5239.1215	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5745

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5745.9012	Pass
30		5745.9016	Pass
20		5745.9020	Pass
10		5745.9011	Pass
0		5745.9008	Pass
25	138	5745.9007	Pass
	120	5745.9016	Pass
	102	5745.9018	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5785

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5782.9704	Pass
30		5782.9713	Pass
20		5782.9719	Pass
10		5782.9717	Pass
0		5782.9707	Pass
25	138	5782.9705	Pass
	120	5782.9713	Pass
	102	5782.9720	Pass

Test mode:	802.11ac(HT20)	Frequency(MHz):	5825

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5825.9260	Pass
30		5825.9262	Pass
20		5825.9266	Pass
10		5825.9261	Pass
0		5825.9253	Pass
25	138	5825.9256	Pass
	120	5825.9262	Pass
	102	5825.9269	Pass

Test mode:	802.11ac(HT40)	Frequency(MHz):	5190

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5190.8255	Pass
30		5190.8258	Pass
20		5190.8268	Pass
10		5190.8258	Pass
0		5190.8256	Pass
25	138	5190.8253	Pass
	120	5190.8258	Pass
	102	5190.8268	Pass

Test mode:	802.11ac(HT40)	Frequency(MHz):	5230

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5231.4768	Pass
30		5231.4775	Pass
20		5231.4777	Pass
10		5231.4770	Pass
0		5231.4768	Pass
25	138	5231.4771	Pass
	120	5231.4775	Pass
	102	5231.4781	Pass

Test mode:	802.11ac(HT40)	Frequency(MHz):	5755

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5755.4788	Pass
30		5755.4795	Pass
20		5755.4803	Pass
10		5755.4802	Pass
0		5755.4801	Pass
25	138	5755.4788	Pass
	120	5755.4795	Pass
	102	5755.4796	Pass

Test mode:	802.11ac(HT40)	Frequency(MHz):	5795

Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5795.2492	Pass
30		5795.2500	Pass
20		5795.2507	Pass
10		5795.2504	Pass
0		5795.2498	Pass
25	138	5795.2492	Pass
	120	5795.2500	Pass
	102	5795.2507	Pass

Test mode:	802.11ac(HT80)	Frequency(MHz):	5210

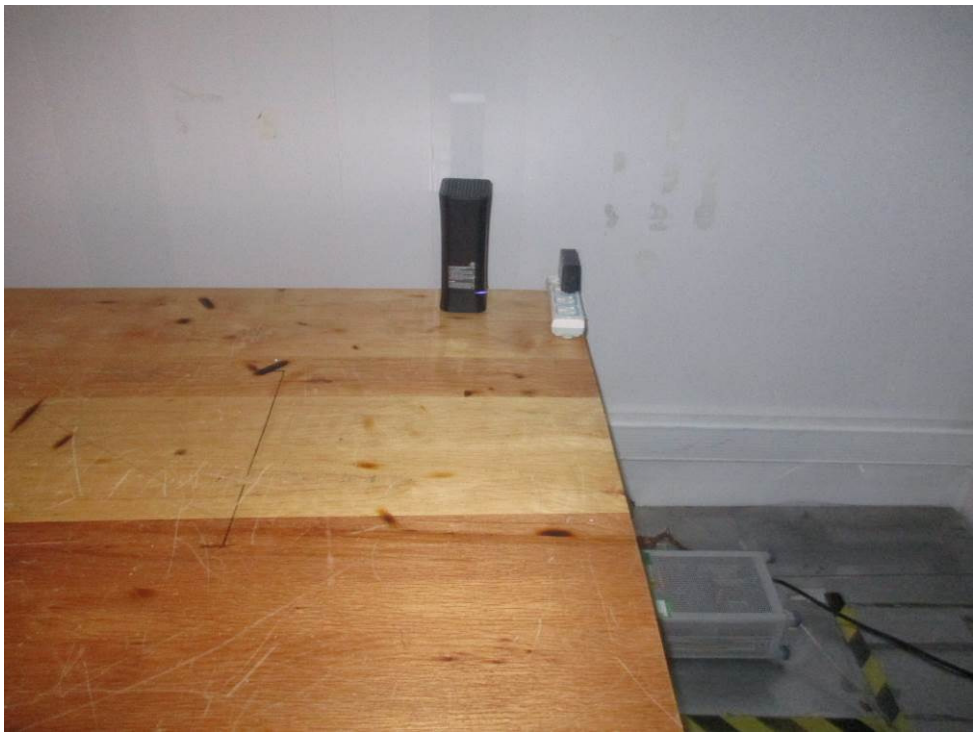
Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5210.5221	Pass
30		5210.5225	Pass
20		5210.5229	Pass
10		5210.5227	Pass
0		5210.5220	Pass
25	138	5210.5220	Pass
	120	5210.5225	Pass
	102	5210.5234	Pass

Test mode:	802.11ac(HT80)	Frequency(MHz):	5775

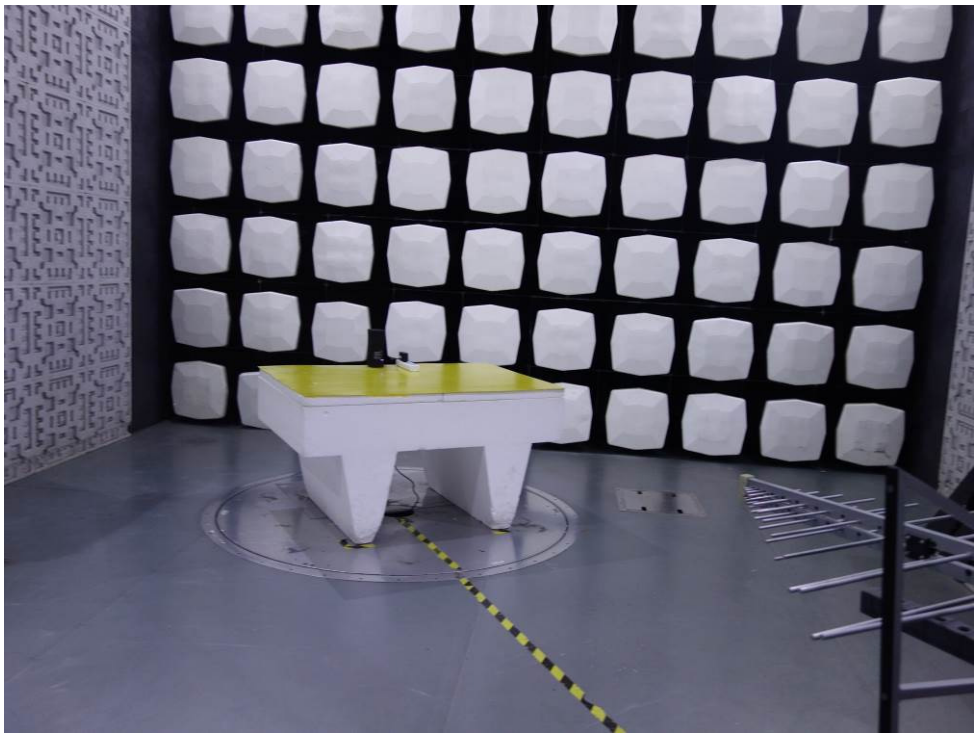
Temperature (℃)	Voltage(VAC)	Measurement Frequency(MHz)	Result
40	120	5776.9485	Pass
30		5776.9488	Pass
20		5776.9497	Pass
10		5776.9491	Pass
0		5776.9482	Pass
25	138	5776.9479	Pass
	120	5776.9488	Pass
	102	5776.9493	Pass

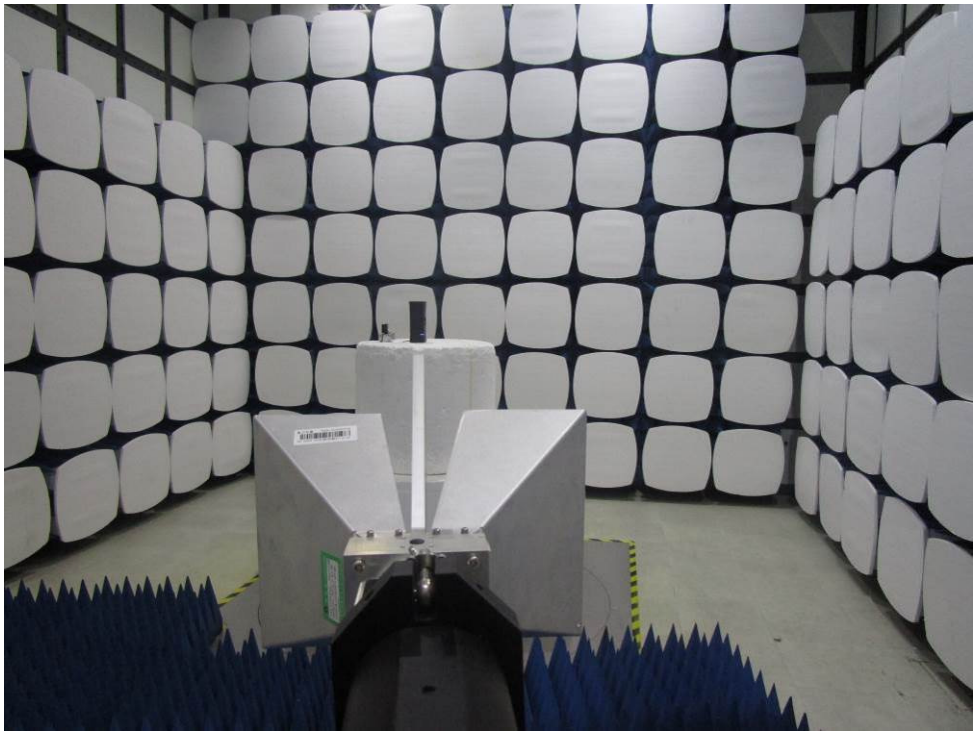
8 Photographs

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz) Test Setup



8.2 Radiated Emissions Test Setup





8.3 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1707007162CR.

9 Appendix

9.1 Appendix 15.407

1.Emission Bandwidth Measurement

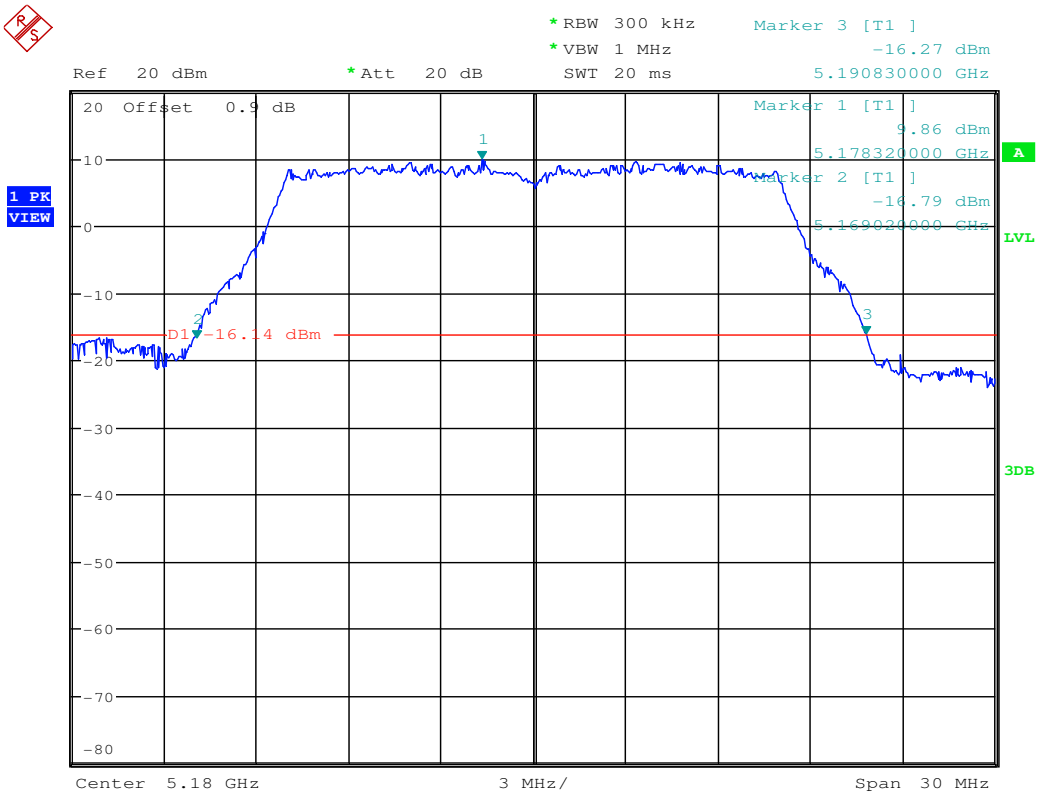
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant2	21.810	---	PASS
11A	5180	Ant3	21.810	---	PASS
11A	5180	Ant4	21.870	---	PASS
11A	5180	Ant5	21.750	---	PASS
11A	5200	Ant2	21.810	---	PASS
11A	5200	Ant3	21.780	---	PASS
11A	5200	Ant4	21.840	---	PASS
11A	5200	Ant5	21.780	---	PASS
11A	5240	Ant2	21.810	---	PASS
11A	5240	Ant3	21.930	---	PASS
11A	5240	Ant4	21.810	---	PASS
11A	5240	Ant5	21.810	---	PASS
11A	5745	Ant2	16.440	>=0.5	PASS
11A	5745	Ant3	16.440	>=0.5	PASS
11A	5745	Ant4	16.410	>=0.5	PASS
11A	5745	Ant5	16.440	>=0.5	PASS
11A	5785	Ant2	16.440	>=0.5	PASS
11A	5785	Ant3	16.440	>=0.5	PASS
11A	5785	Ant4	16.440	>=0.5	PASS
11A	5785	Ant5	16.440	>=0.5	PASS
11A	5825	Ant2	16.440	>=0.5	PASS
11A	5825	Ant3	16.440	>=0.5	PASS
11A	5825	Ant4	16.410	>=0.5	PASS
11A	5825	Ant5	16.410	>=0.5	PASS
11N20	5180	Ant2	22.050	---	PASS
11N20	5180	Ant3	22.020	---	PASS
11N20	5180	Ant4	21.990	---	PASS
11N20	5180	Ant5	22.050	---	PASS

11N20	5200	Ant2	21.990	---	PASS
11N20	5200	Ant3	22.050	---	PASS
11N20	5200	Ant4	22.350	---	PASS
11N20	5200	Ant5	22.050	---	PASS
11N20	5240	Ant2	22.080	---	PASS
11N20	5240	Ant3	22.560	---	PASS
11N20	5240	Ant4	22.170	---	PASS
11N20	5240	Ant5	23.250	---	PASS
11N20	5745	Ant2	17.670	>=0.5	PASS
11N20	5745	Ant3	17.700	>=0.5	PASS
11N20	5745	Ant4	17.670	>=0.5	PASS
11N20	5745	Ant5	17.670	>=0.5	PASS
11N20	5785	Ant2	17.670	>=0.5	PASS
11N20	5785	Ant3	17.670	>=0.5	PASS
11N20	5785	Ant4	17.670	>=0.5	PASS
11N20	5785	Ant5	17.670	>=0.5	PASS
11N20	5825	Ant2	17.670	>=0.5	PASS
11N20	5825	Ant3	17.670	>=0.5	PASS
11N20	5825	Ant4	17.670	>=0.5	PASS
11N20	5825	Ant5	17.670	>=0.5	PASS
11N40	5190	Ant2	40.800	---	PASS
11N40	5190	Ant3	40.560	---	PASS
11N40	5190	Ant4	41.760	---	PASS
11N40	5190	Ant5	40.740	---	PASS
11N40	5230	Ant2	41.640	---	PASS
11N40	5230	Ant3	40.620	---	PASS
11N40	5230	Ant4	41.700	---	PASS
11N40	5230	Ant5	40.740	---	PASS
11N40	5755	Ant2	36.480	>=0.5	PASS
11N40	5755	Ant3	36.480	>=0.5	PASS
11N40	5755	Ant4	36.480	>=0.5	PASS
11N40	5755	Ant5	36.540	>=0.5	PASS
11N40	5795	Ant2	36.480	>=0.5	PASS
11N40	5795	Ant3	36.480	>=0.5	PASS

11N40	5795	Ant4	36.480	>=0.5	PASS
11N40	5795	Ant5	36.480	>=0.5	PASS
11AC20	5180	Ant2	22.110	---	PASS
11AC20	5180	Ant3	21.960	---	PASS
11AC20	5180	Ant4	22.230	---	PASS
11AC20	5180	Ant5	22.080	---	PASS
11AC20	5200	Ant2	22.170	---	PASS
11AC20	5200	Ant3	22.110	---	PASS
11AC20	5200	Ant4	22.230	---	PASS
11AC20	5200	Ant5	22.050	---	PASS
11AC20	5240	Ant2	21.930	---	PASS
11AC20	5240	Ant3	22.020	---	PASS
11AC20	5240	Ant4	22.200	---	PASS
11AC20	5240	Ant5	22.200	---	PASS
11AC20	5745	Ant2	17.670	>=0.5	PASS
11AC20	5745	Ant3	17.670	>=0.5	PASS
11AC20	5745	Ant4	17.640	>=0.5	PASS
11AC20	5745	Ant5	17.670	>=0.5	PASS
11AC20	5785	Ant2	17.670	>=0.5	PASS
11AC20	5785	Ant3	17.640	>=0.5	PASS
11AC20	5785	Ant4	17.670	>=0.5	PASS
11AC20	5785	Ant5	17.670	>=0.5	PASS
11AC20	5825	Ant2	17.670	>=0.5	PASS
11AC20	5825	Ant3	17.670	>=0.5	PASS
11AC20	5825	Ant4	17.670	>=0.5	PASS
11AC20	5825	Ant5	17.670	>=0.5	PASS
11AC40	5190	Ant2	40.740	---	PASS
11AC40	5190	Ant3	40.800	---	PASS
11AC40	5190	Ant4	40.680	---	PASS
11AC40	5190	Ant5	40.800	---	PASS
11AC40	5230	Ant2	40.440	---	PASS
11AC40	5230	Ant3	42.480	---	PASS
11AC40	5230	Ant4	40.800	---	PASS
11AC40	5230	Ant5	40.860	---	PASS

11AC40	5755	Ant2	36.540	>=0.5	PASS
11AC40	5755	Ant3	36.480	>=0.5	PASS
11AC40	5755	Ant4	36.480	>=0.5	PASS
11AC40	5755	Ant5	36.480	>=0.5	PASS
11AC40	5795	Ant2	36.480	>=0.5	PASS
11AC40	5795	Ant3	36.480	>=0.5	PASS
11AC40	5795	Ant4	36.480	>=0.5	PASS
11AC40	5795	Ant5	36.540	>=0.5	PASS
11AC80	5210	Ant2	82.200	---	PASS
11AC80	5210	Ant3	81.960	---	PASS
11AC80	5210	Ant4	82.200	---	PASS
11AC80	5210	Ant5	81.840	---	PASS
11AC80	5775	Ant2	76.560	>=0.5	PASS
11AC80	5775	Ant3	76.680	>=0.5	PASS
11AC80	5775	Ant4	76.560	>=0.5	PASS
11AC80	5775	Ant5	76.680	>=0.5	PASS

Emission Bandwidth Measurement_11A_5180_Ant2



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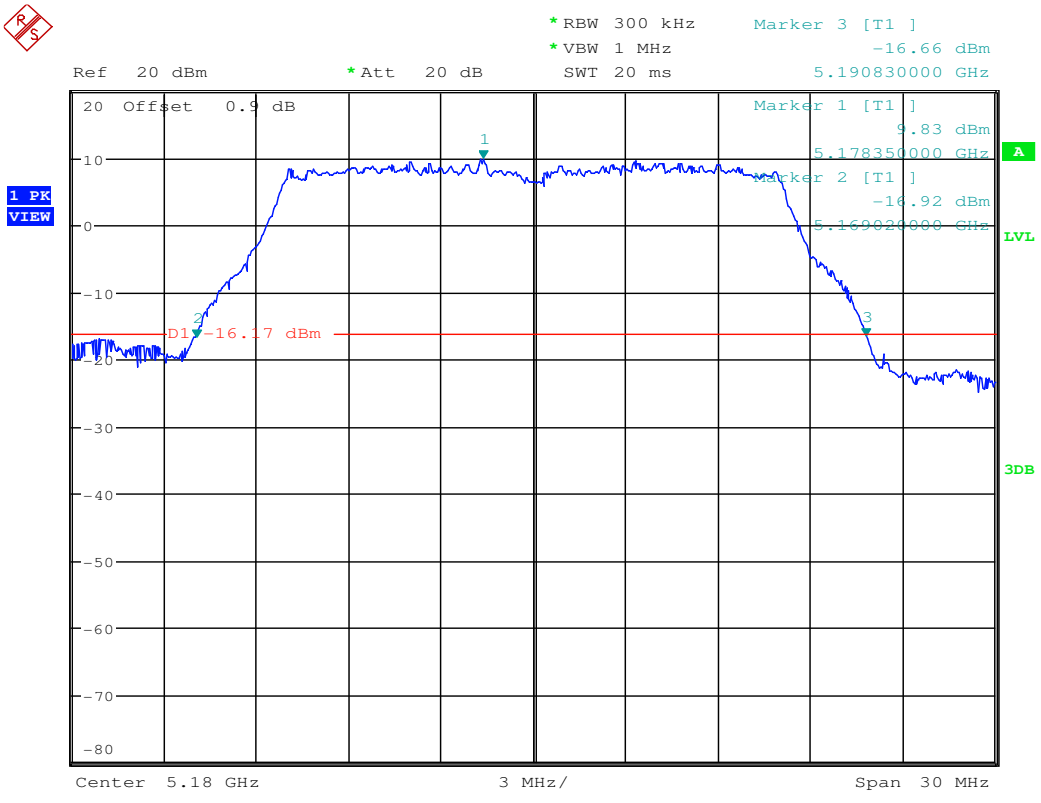
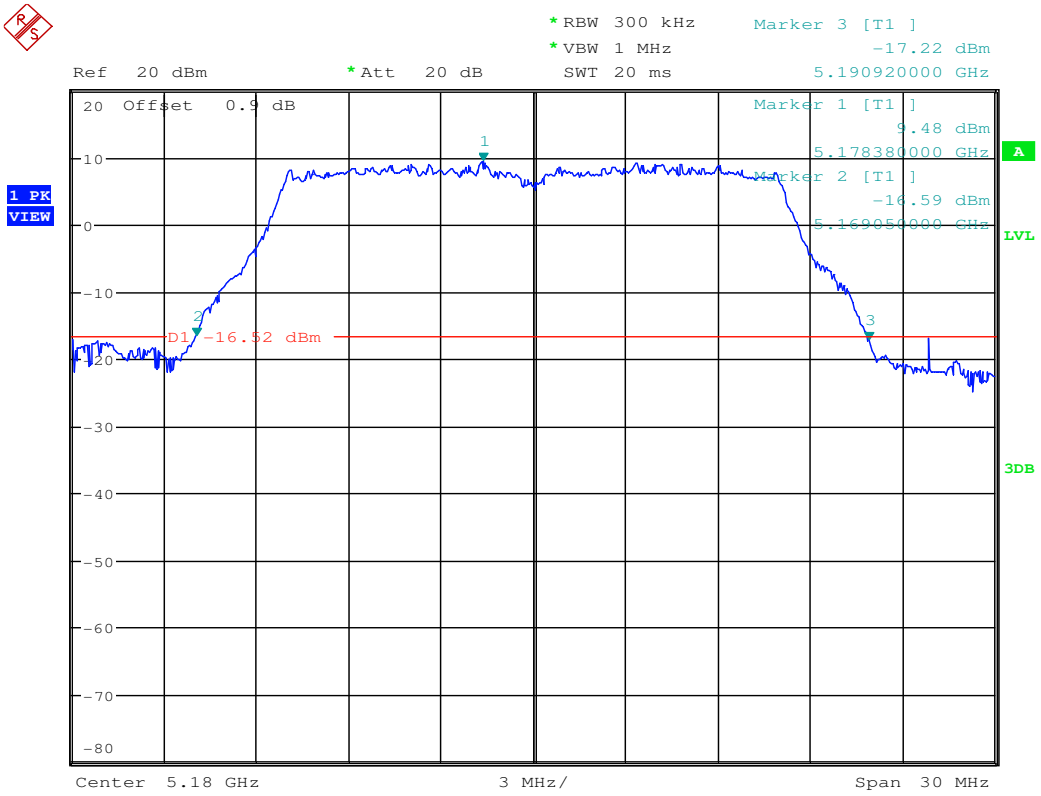
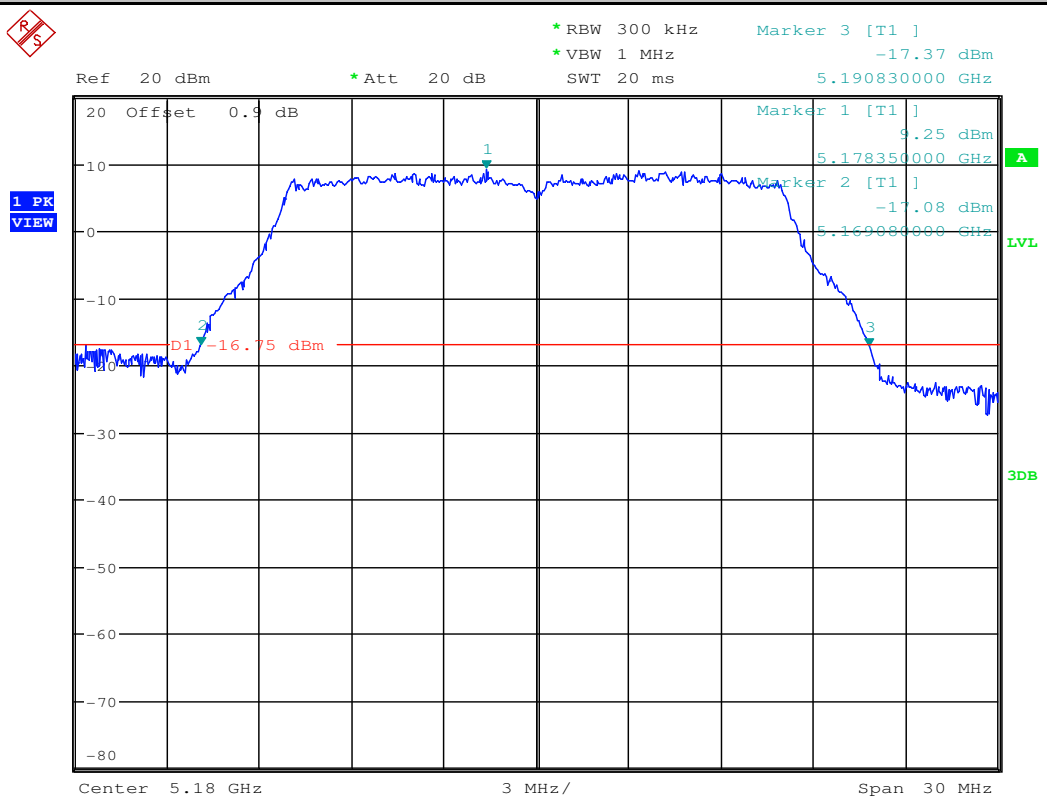


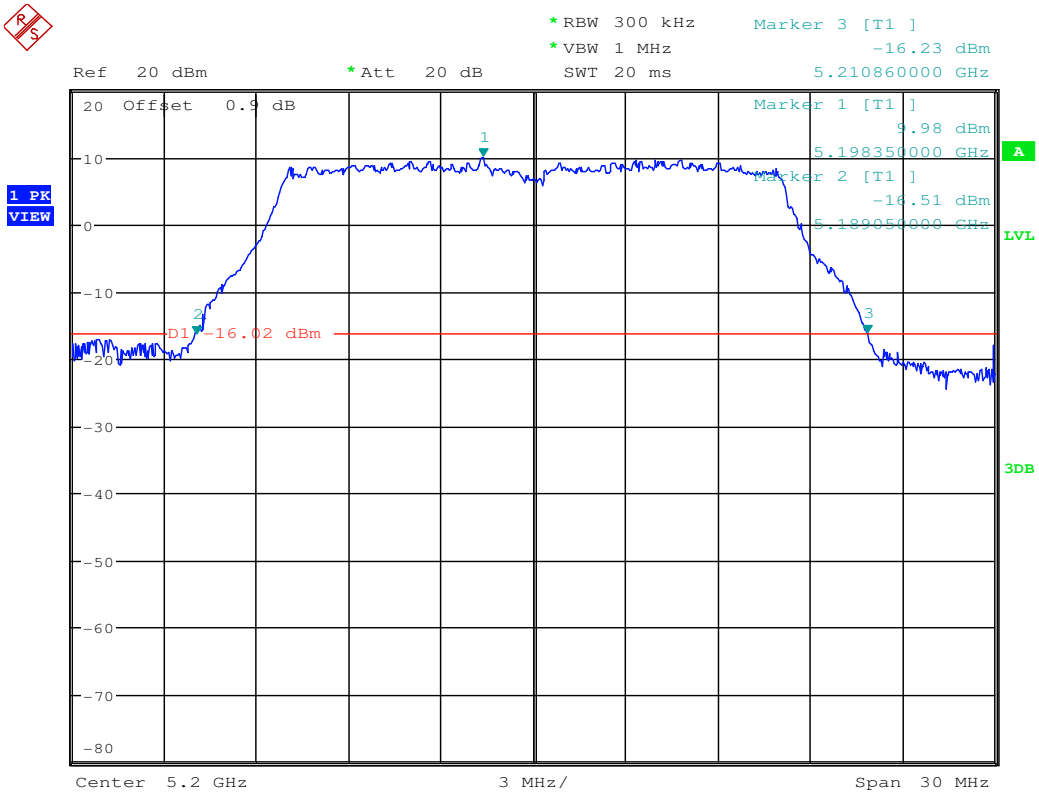
Emission Bandwidth Measurement_11A_5180_Ant4



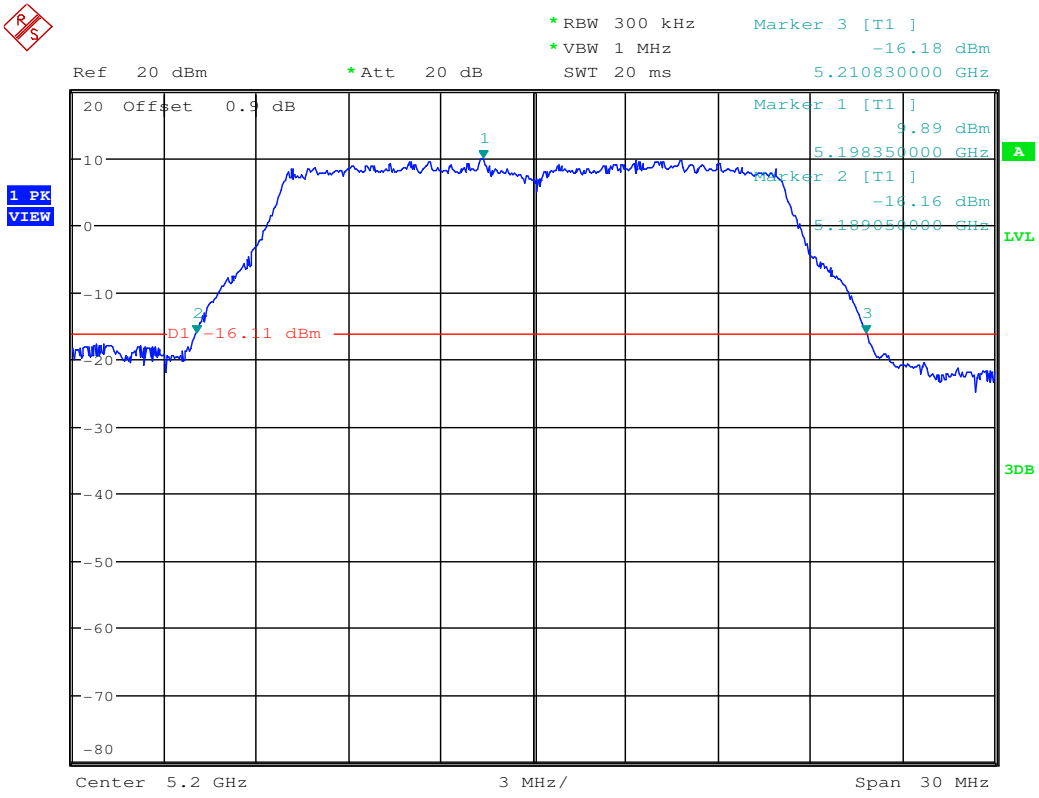
Emission Bandwidth Measurement_11A_5180_Ant5



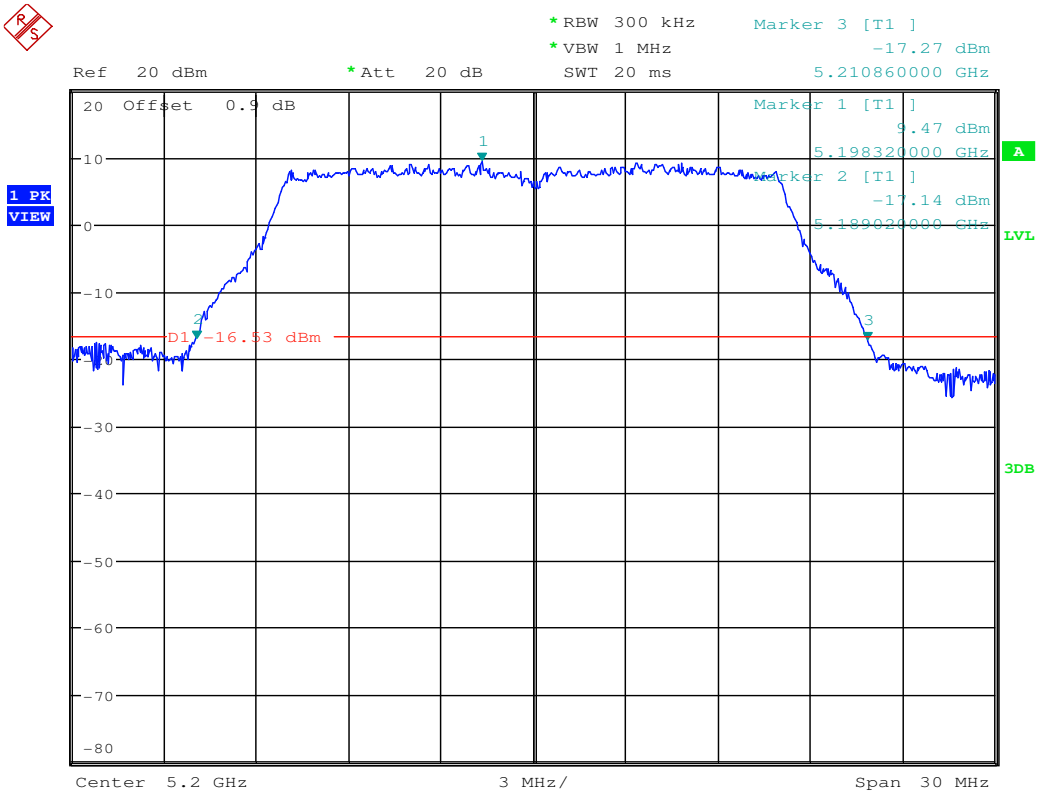
Emission Bandwidth Measurement_11A_5200_Ant2



Emission Bandwidth Measurement_11A_5200_Ant3



Emission Bandwidth Measurement_11A_5200_Ant4



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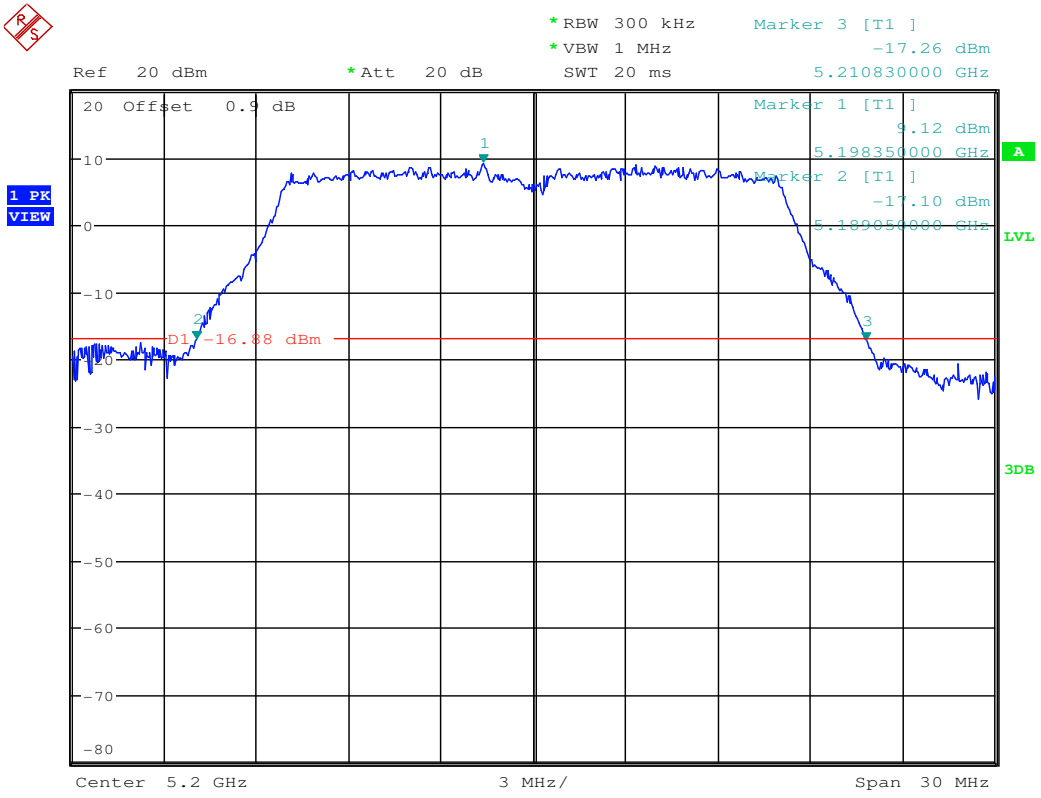

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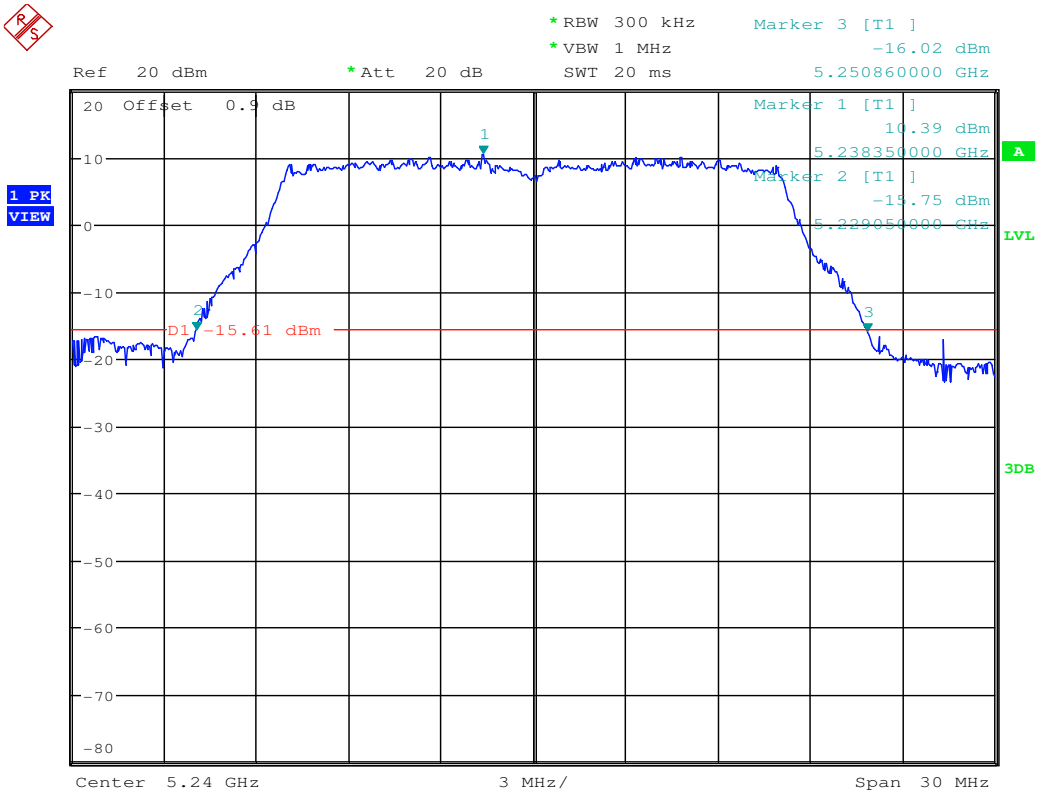
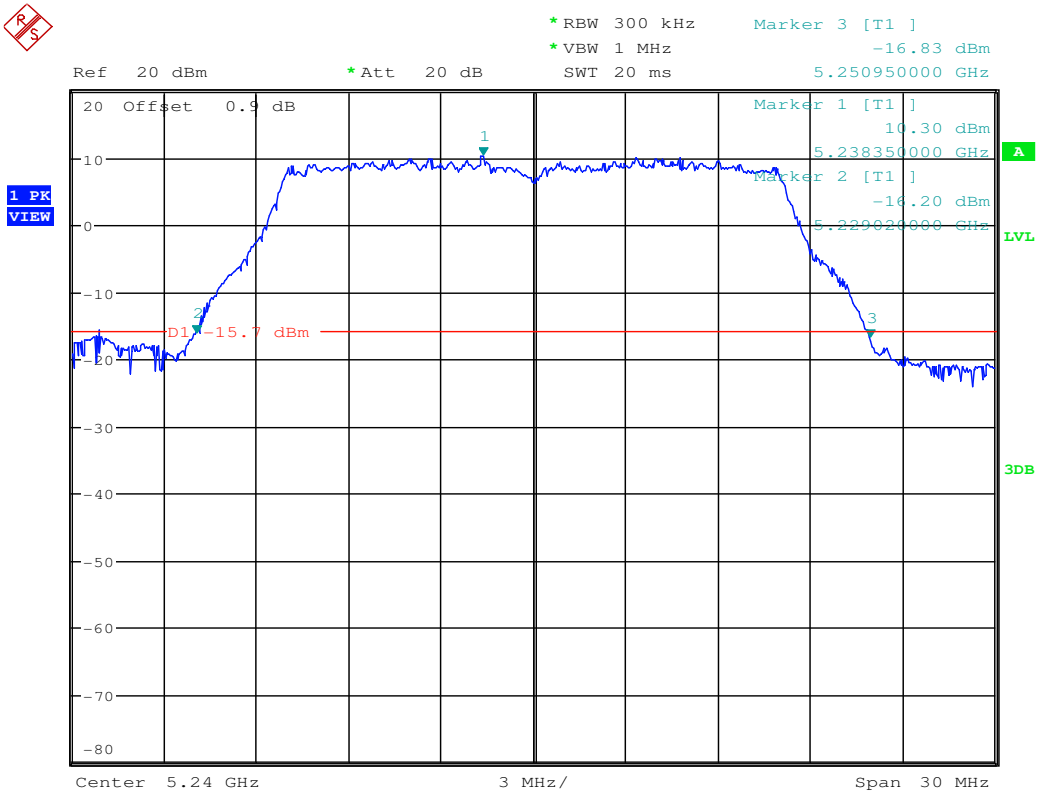
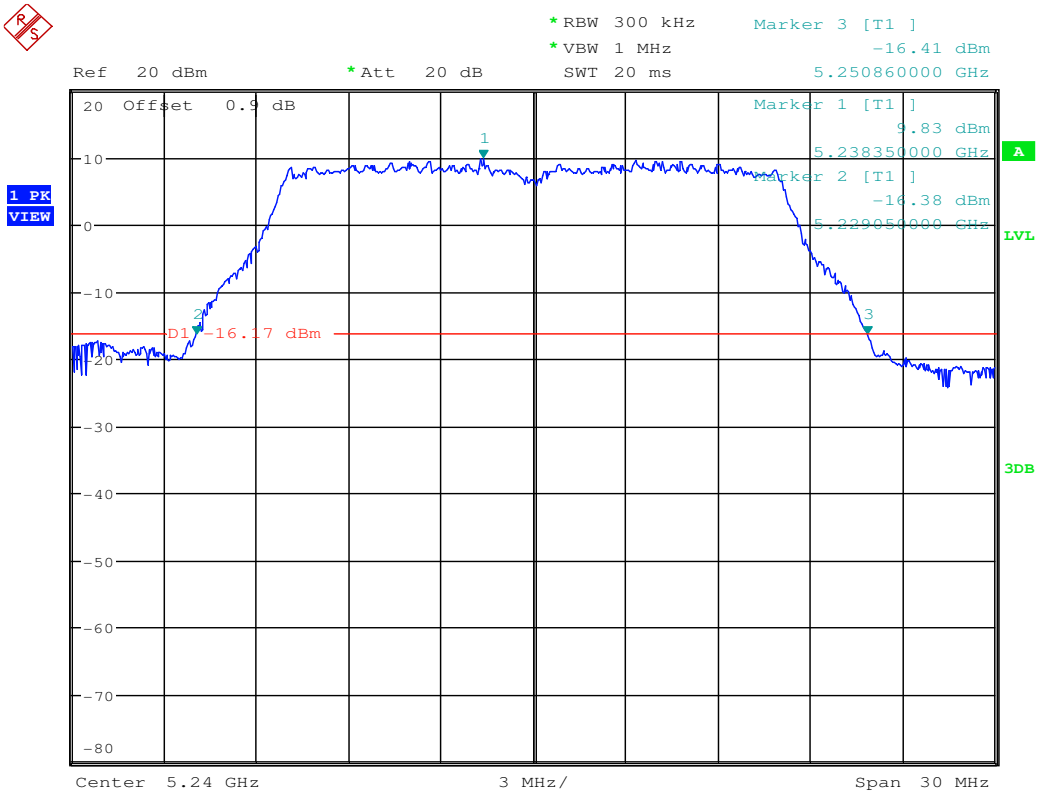


Emission Bandwidth Measurement_11A_5240_Ant3



Emission Bandwidth Measurement_11A_5240_Ant4



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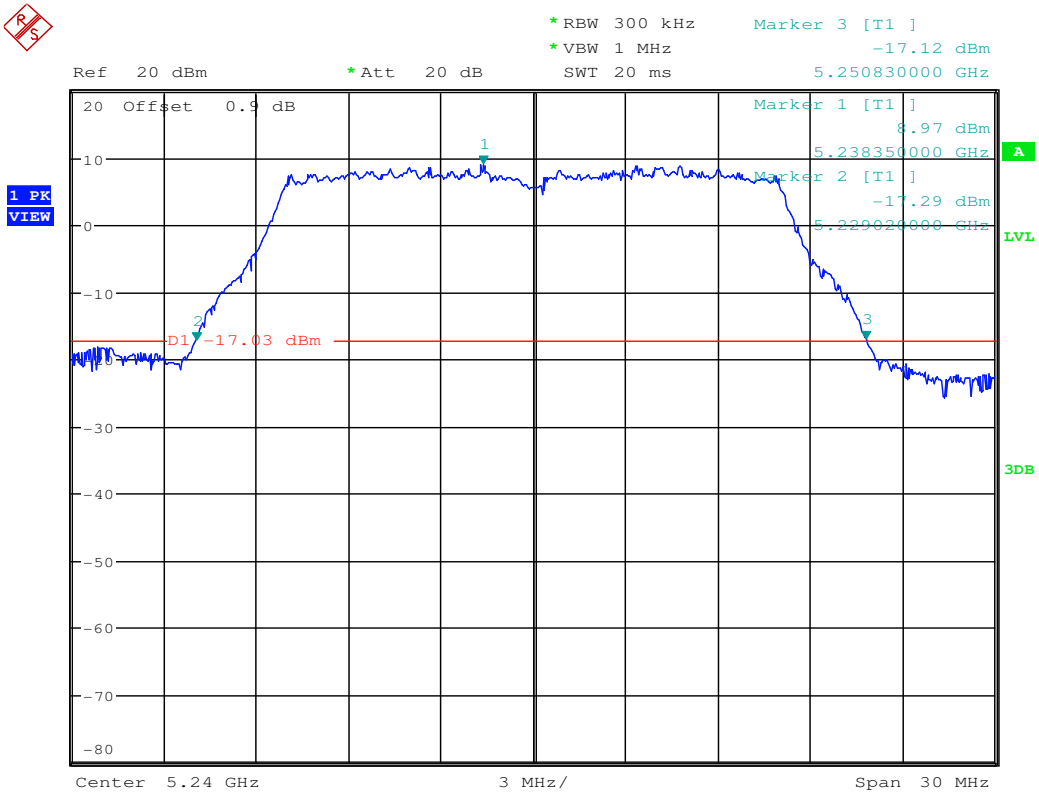

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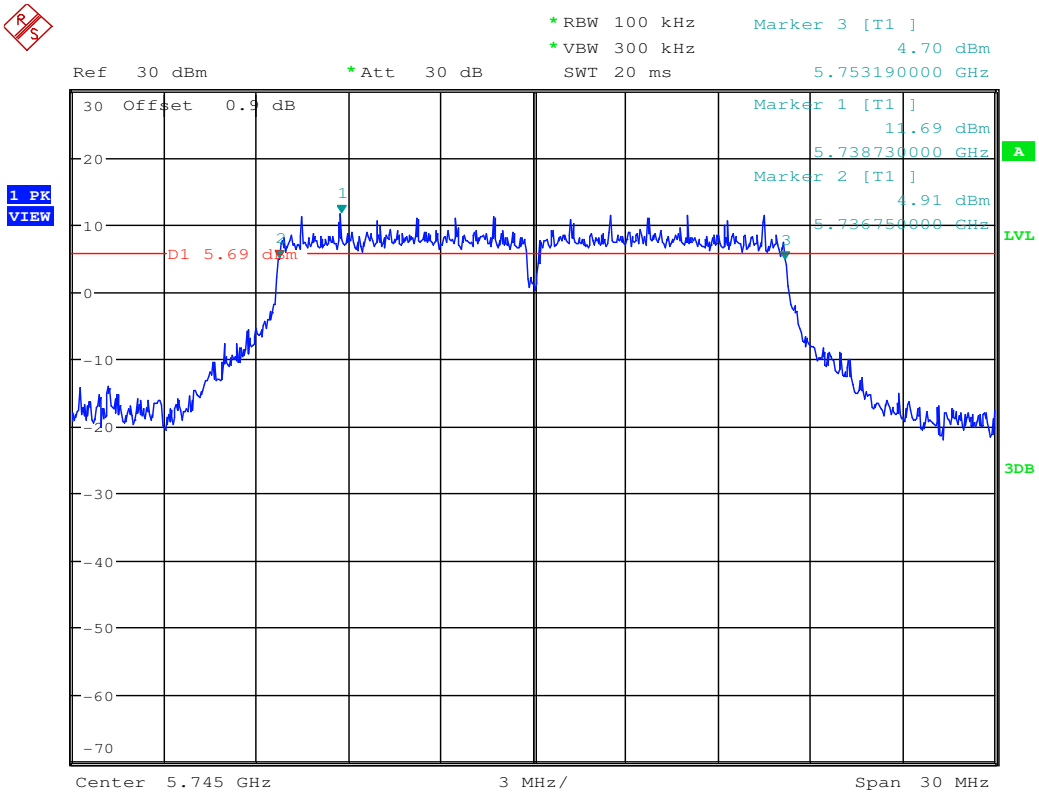

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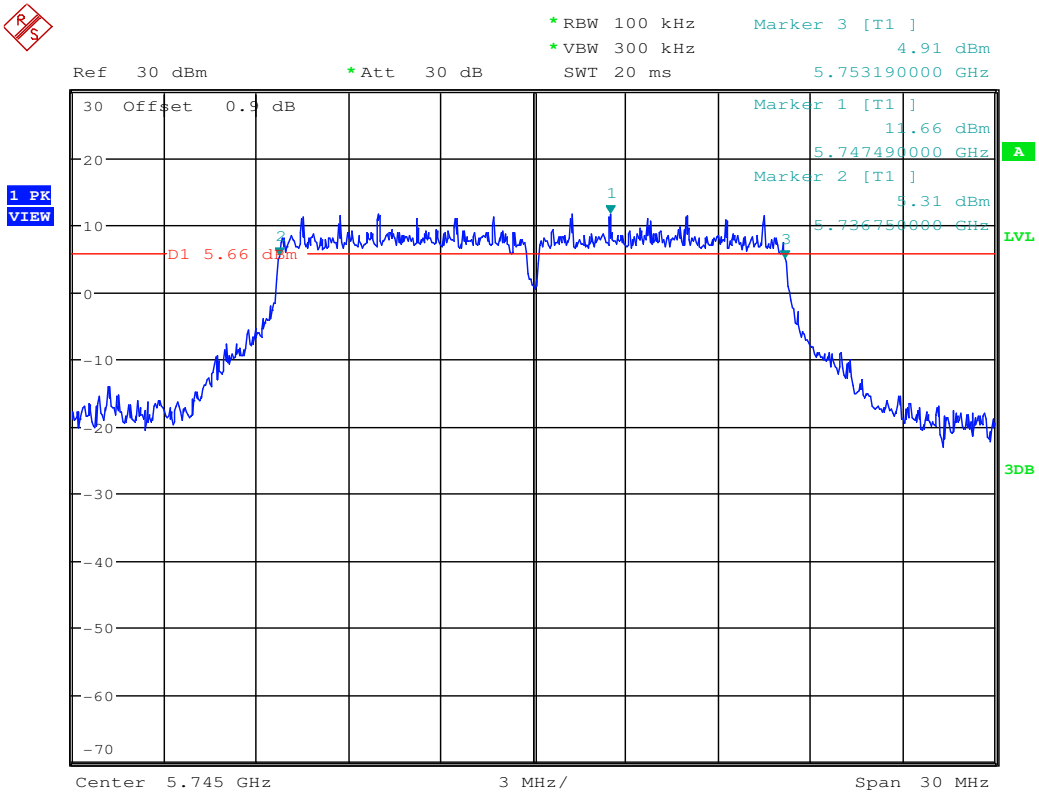

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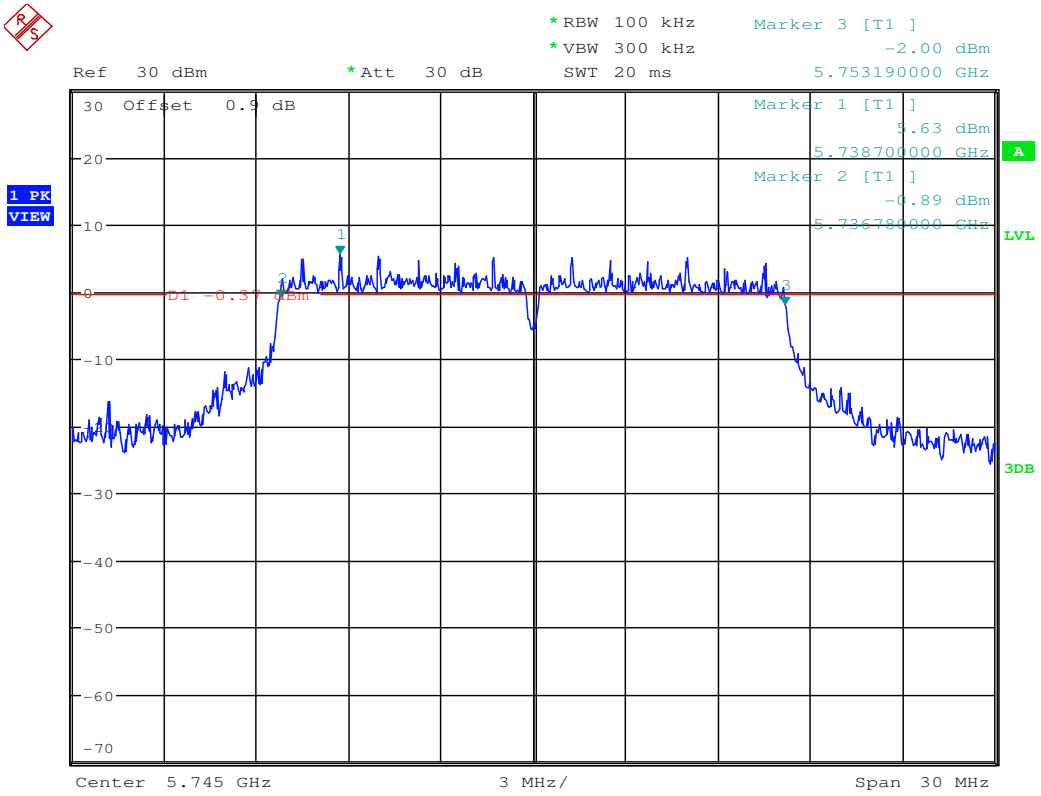
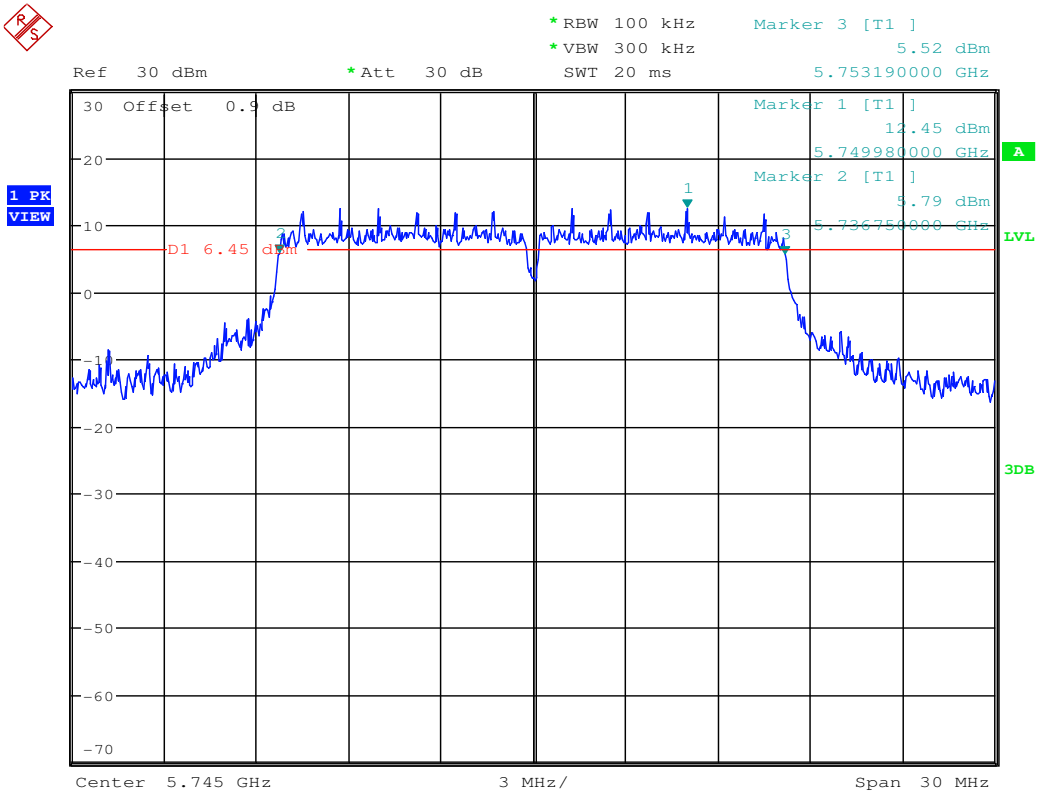
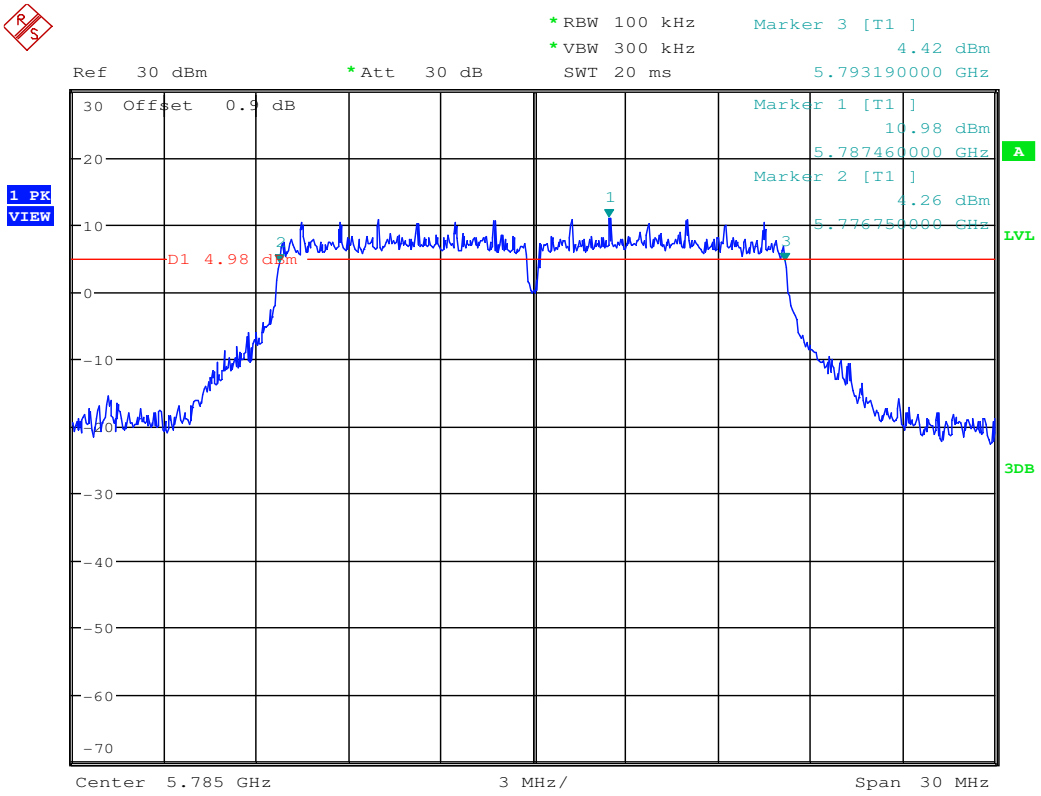


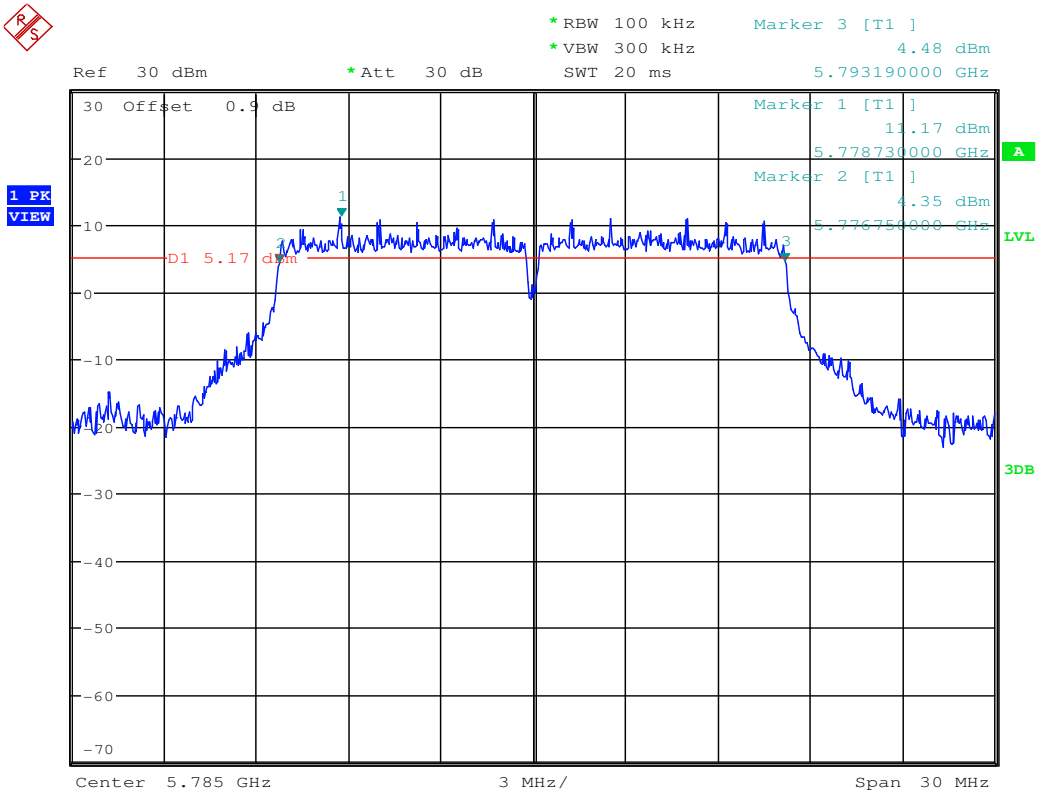
Emission Bandwidth Measurement_11A_5745_Ant5



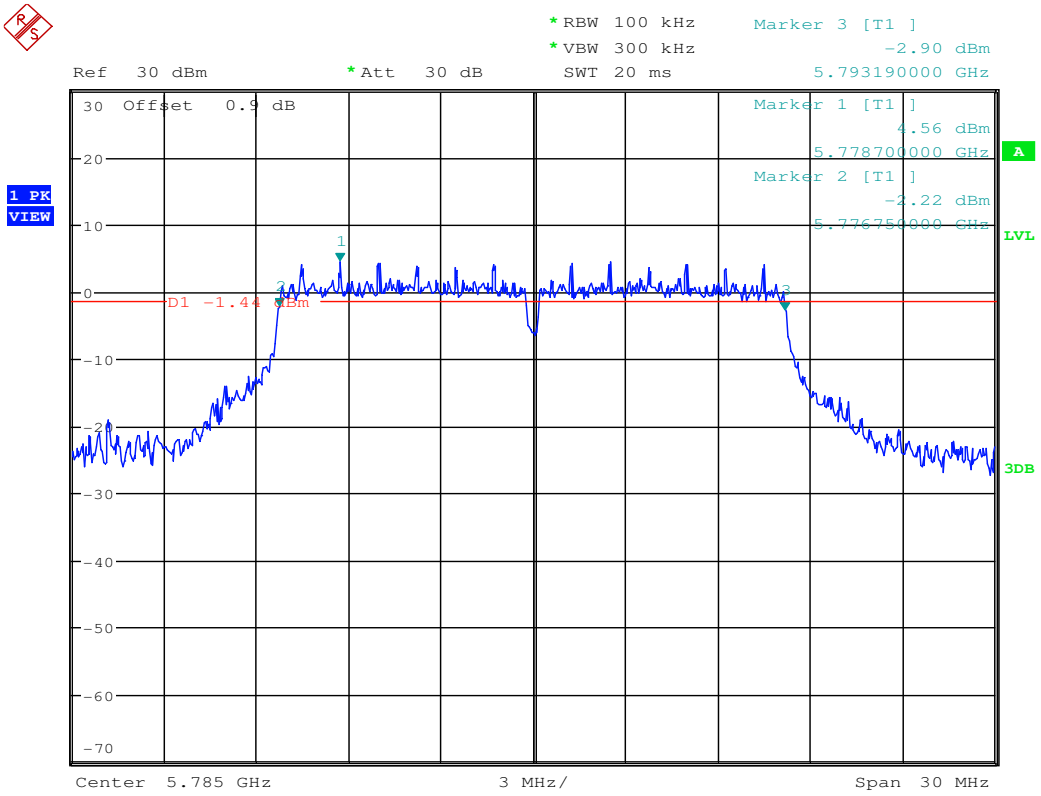
Emission Bandwidth Measurement_11A_5785_Ant2



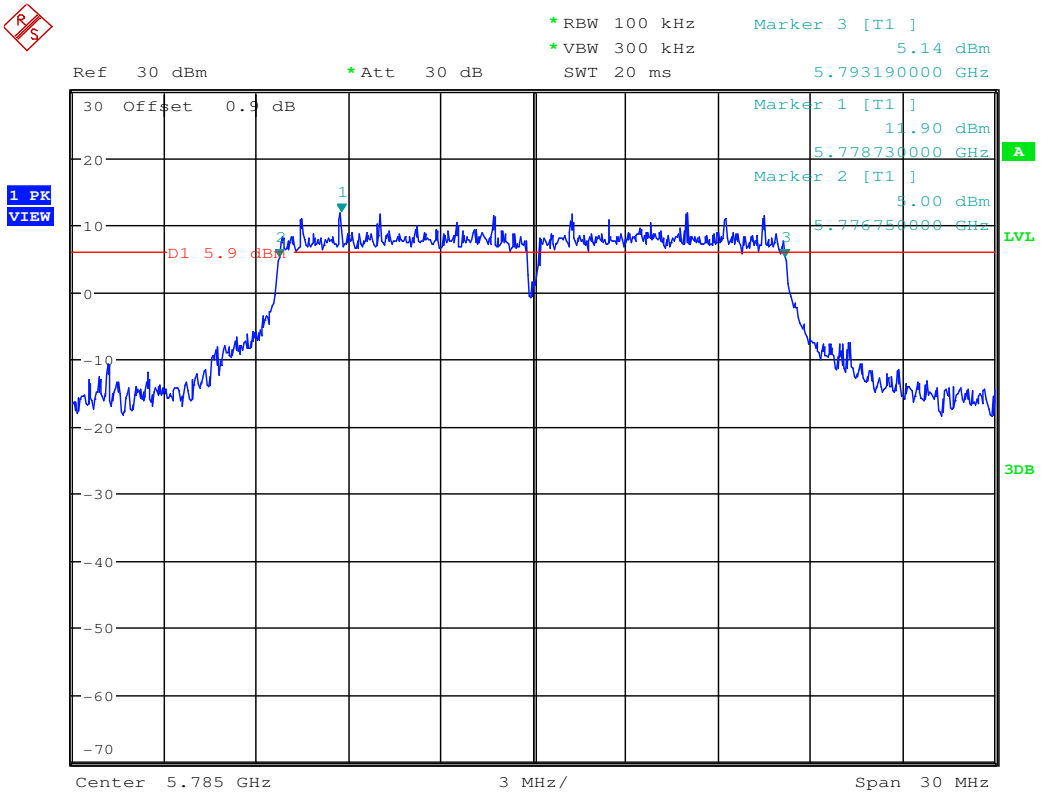
Emission Bandwidth Measurement_11A_5785_Ant3



Emission Bandwidth Measurement_11A_5785_Ant4



Emission Bandwidth Measurement_11A_5785_Ant5



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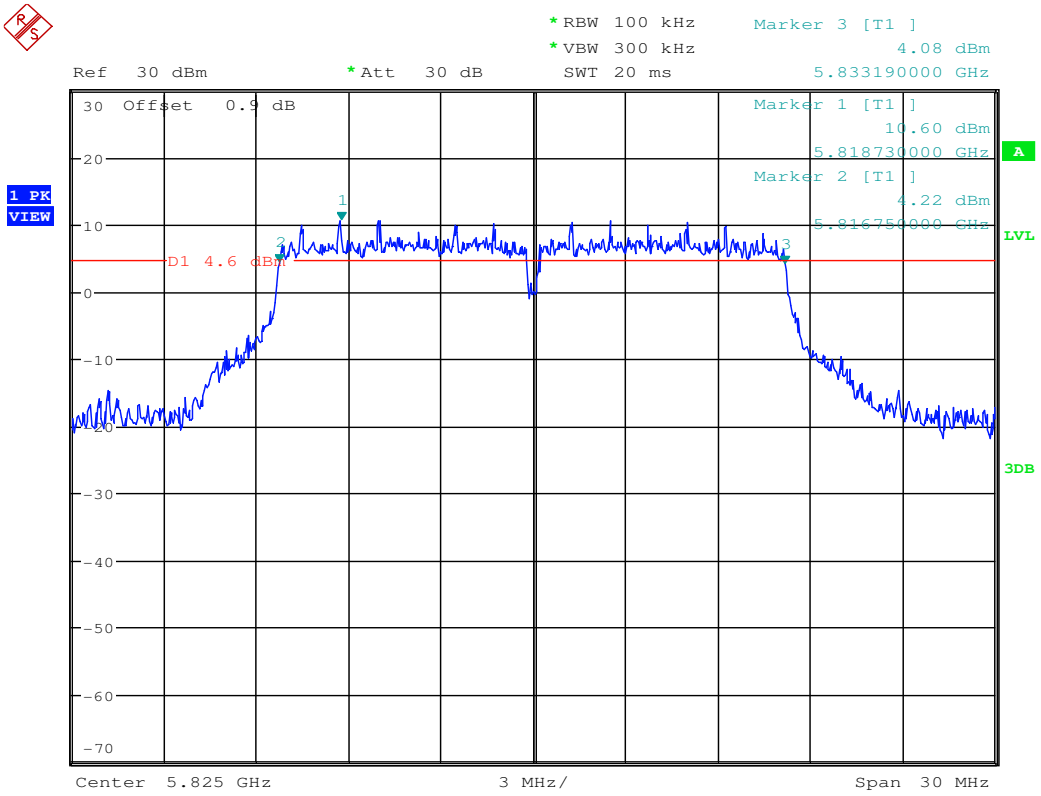

Emission Bandwidth Measurement_11A_5825_Ant3