

Report No.: SZEM200400229905

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TEST REPORT

Application No.: SZEM2004002299CR

Applicant: Echelon Fitness Multimedia LLC

Address of Applicant: 6011 Century Oaks Drive, Chattanoog, Tennessee 37416 United States

Manufacturer: SHENZHEN KINSTONE D&T DEVELOP CO., LTD

Address of Manufacturer: 5F, A2B, XinJianXing Tech Industrial Park, Fengxin Road, Lou Cun,

Gongming Street, Guangming New Dist., Shenzhen, China

SHENZHEN KINSTONE D&T DEVELOP CO., LTD Factory:

5F, A2B, XinJianXing Tech Industrial Park, Fengxin Road, Lou Cun, Address of Factory:

Gongming Street, Guangming New Dist., Shenzhen, China

Equipment Under Test (EUT):

EUT Name: ECHELON 21.5 INCH SCREEN

Model No.: ECHKIN215 **Trade Mark: ECHELON**

FCC ID: 2AWD4-KS215A

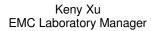
47 CFR Part 15, Subpart E 15.407 Standard(s):

2020-04-08 **Date of Receipt:**

2020-04-09 to 2020-06-24 Date of Test:

2020-06-30 Date of Issue:

Pass* Test Result:



Ceny. Ku



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



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	Revision Record						
Version Chapter Date Modifier Remark							
01		2020-06-30		Original			

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary 2

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

N/A: Not applicable

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
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 C 15.407 (a)	Pass			
Minimum 6 dB bandwidth (5.725- 5.85 GHz band)	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass			
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass			
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass			
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass			
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass			
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass			

N/A: Not applicable

Remark:1. For the 802.11n(HT20 & HT40 mode), 802.11ac(VHT20,VHT40,VHT80), two antennas can transmit at the same time.

> For 802.11a mode, ant1 is worst case for radiated emission test, and both antennas are transmitting for radiated emission test for other mode.

- 2. all the conducted RF test include offset value for cable loss.
- 3. in this report, directional gain=1.6+10*log(2)=4.61dBi.



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General Information

4.1 Details of E.U.T.

Power Supply:	DC12V/5000	mA by power adapter						
	Adapter input	t: AC100-240V, 50/60Hz, 1.5A	1					
	Adapter mod	el: JHD-AD065C-120500						
Cable:	Power adapte	Power adapter cable: 2m unshielded cable without ferrite core						
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels				
	UNII Band	IEEE 802.11a/n20/ac20	5180-5240	4				
	1	IEEE 802.11n40/ac40	5190-5230	2				
		IEEE 802.11ac80	5210	1				
	UNII Band	IEEE 802.11a/n20/ac20	5745-5825	5				
		IEEE 802.11n40/ac40	5755-5795	2				
		IEEE 802.11ac80	5775	1				
Type of Modulation:	802.11a/n: O	FDM(BPSK/QPSK/16QAM/64	·QAM)	_				
	802.11ac: OF	FDM(BPSK/QPSK/16QAM/640	QAM/256QAM)					
TPC Function:	Not support							
Antenna Type:	Ant1: PIFA a	ntenna; Ant2: PIFA antenna						
Antenna Gain:	Ant1:1.6dBi; Ant2:1.6dBi							
S/N:	ECHKS21500000							
Software version:	Android 9.0							
Hardware version:	AD-Z33P-V1	.0						

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 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	Dadiated Churique amigaien test	± 4.5dB (Below 1GHz)
/	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
8	Temperature test	± 1 °C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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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.

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

No tests were sub-contracted.

4.5 Test Facility

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

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.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 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.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

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	2019-06-13	2022-06-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10		
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31		
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23		

99% Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

26dB Emission bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Minimum 6 dB bandwidth (5.725-5.85 GHz band)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

Maximum Conducted output power							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23		
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23		
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27		

Peak Power spectrum density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	



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Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
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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	2018-03-13	2021-03-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10		
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08		
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12		
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23		
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31		
Pre-amplifier Compliance Directions Systems Inc.		PAP-2640-50	SEM005-08	2020-04-01	2021-03-31		
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23		
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21		

Radiated Spurious Emissions							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10		
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26		
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10		
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08		
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12		
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16		



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Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

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	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25		
Barometer	Changchun		SEM002-01	2020-04-07	2021-04-06		



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.6dBi.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (BCM43598) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 **Radio Spectrum Matter Test Results**

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

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

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

Limit:

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



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7.1.1 E.U.T. Operation

Operating Environment:

22.6 °C Temperature: Humidity: 57.5 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case: e: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.

f: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.

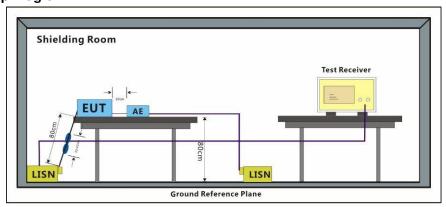
The worst case for final test:

e: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





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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
- 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



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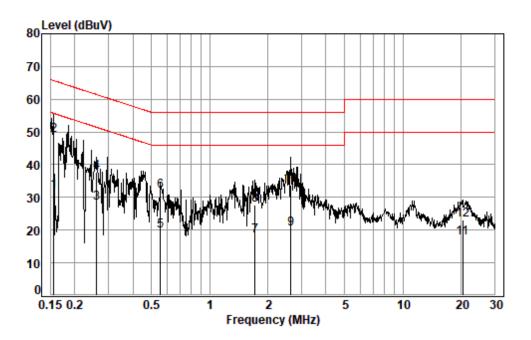
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Mode:e; Line:Live Line



: Shielding Room

Condition: Line Job No. : 02299CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.01	9.59	22.41	32.01	55.65	-23.64	Average
2	0.1565	0.01	9.59	39.33	48.93	65.65	-16.72	QP
3	0.2603	0.03	9.59	18.69	28.31	51.42	-23.11	Average
4	0.2603	0.03	9.59	28.06	37.68	61.42	-23.74	QP
5	0.5552	0.06	9.60	10.02	19.68	46.00	-26.32	Average
6	0.5552	0.06	9.60	22.36	32.02	56.00	-23.98	QP
7	1.7162	0.14	9.61	8.43	18.18	46.00	-27.82	Average
8	1.7162	0.14	9.61	17.93	27.68	56.00	-28.32	QP
9	2.6360	0.16	9.65	10.62	20.43	46.00	-25.57	Average
10	2.6360	0.16	9.65	23.88	33.69	56.00	-22.31	QP
11	20.4855	0.24	10.63	6.86	17.73	50.00	-32.27	Average
12	20.4855	0.24	10.63	12.24	23.11	60.00	-36.89	QP



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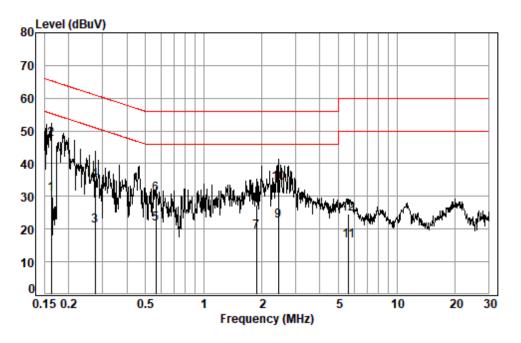
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Mode:e; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02299CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.01	9.55	21.14	30.70	55.34	-24.64	Average
2	0.1624	0.01	9.55	37.79	47.35	65.34	-17.99	QP
3	0.2744	0.04	9.54	11.38	20.96	50.98	-30.02	Average
4	0.2744	0.04	9.54	25.52	35.10	60.98	-25.88	QP
5	0.5671	0.07	9.55	11.92	21.54	46.00	-24.46	Average
6	0.5671	0.07	9.55	20.97	30.59	56.00	-25.41	QP
7	1.8779	0.15	9.56	9.41	19.12	46.00	-26.88	Average
8	1.8779	0.15	9.56	17.72	27.43	56.00	-28.57	QP
9	2.4346	0.16	9.57	12.75	22.48	46.00	-23.52	Average
10	2.4346	0.16	9.57	24.37	34.10	56.00	-21.90	QP
11	5.6234	0.17	9.65	6.61	16.43	50.00	-33.57	Average
12	5.6234	0.17	9.65	14.87	24.69	60.00	-35.31	QP



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7.2 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 34.5 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case: e: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.

f: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:

e: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.

f: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.



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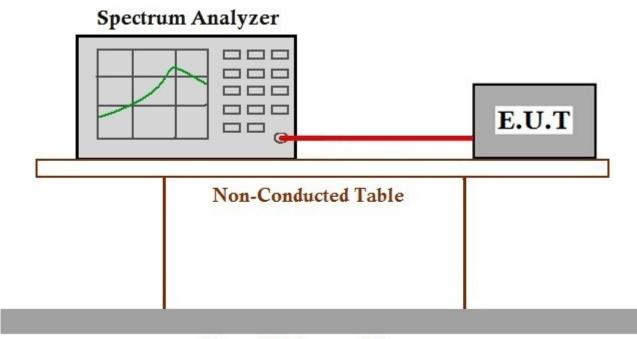
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7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407





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7.3 26dB Emission bandwidth

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

KDB 789033 D02 II C 1 Test Method:

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 34.5 % RH Atmospheric Pressure: 1015 mbar

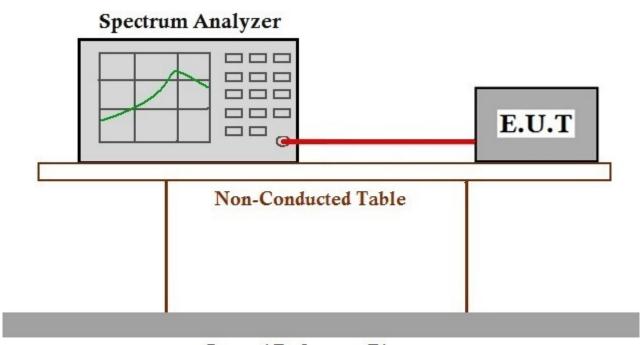
Test mode f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all

modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

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

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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

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

Test Method: KDB 789033 D02 II C 2

Limit: ≥500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 34.5 % RH Atmospheric Pressure: 1015 mbar

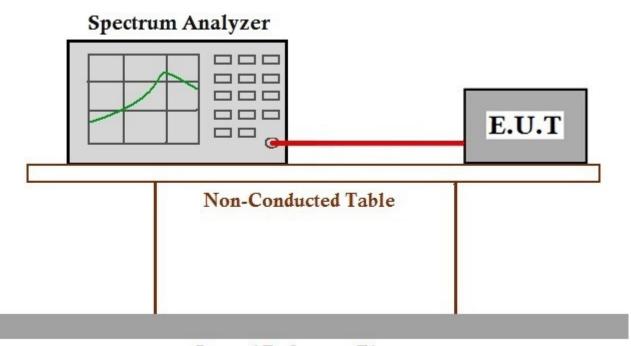
Test mode f:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all

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



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequenc	y band(MHz)	Limit			
E150 5	:0E0	≤1W(30dBm) for master device			
5150-5	0250	≤250mW(24dBm) for client device			
5250-5	350	≤250mW(24dBm) for client device or 11dBm+10logB*			
5470-5	725	≤250mW(24dBm) for client device or 11dBm+10logB*			
5725-5	850	≤1W(30dBm)			
Remark:	* Where B is the	ne 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.			



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7.5.1 E.U.T. Operation

Operating Environment:

24.8 °C Temperature: Humidity: 34.5 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

e: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.

f: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:

e: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.

f: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.



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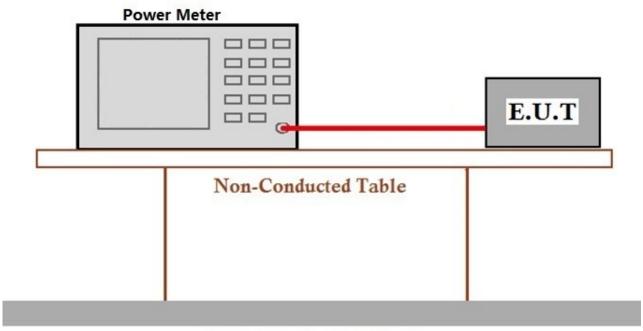
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7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequency	y band(MHz)	Limit			
F150 5	050	≤17dBm in 1MHz for master device			
5150-5	250	≤11dBm in 1MHz for client device			
5250-5	350	≤11dBm in 1MHz for client device			
5470-5	725	≤11dBm in 1MHz for client device			
5725-58	850	≤30dBm in 500 kHz			
Remark:	The maximum power spectral density is measured as a conducted emission by dir connection of a calibrated test instrument to the equipment under test.				



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7.6.1 E.U.T. Operation

Operating Environment:

24.8 °C Temperature: Humidity: 34.5 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

e: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.

f: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:

e: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.

f: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

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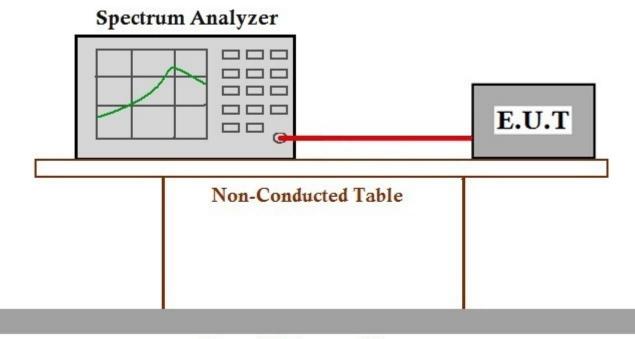
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7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.407



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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

Limit:

Limit:

For transmitters operating in the 5.15-5.25 GHz band:

For transmitters operating in the 5.25-5.35 GHz band:

For transmitters operating in the 5.47-5.725 GHz band:

For transmitters operating in the 5.725-5.85 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

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.



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7.7.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 45 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case: e: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.

f: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:

e: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.



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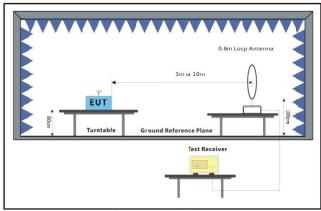
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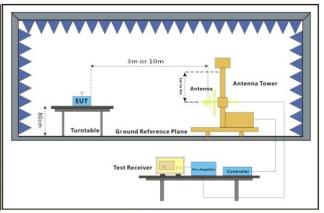


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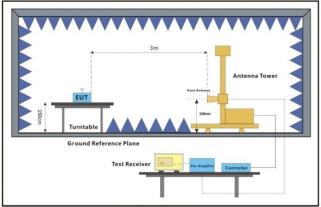
7.7.2 Test Setup Diagram





Below 30MHz

30 MHz - 1GHz



Above 1GHz



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7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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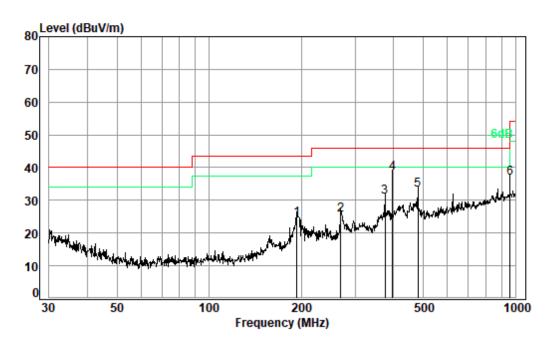


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Below 1GHz

Mode:e; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 02299CR

Test mode: e

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	193.77	1.39	16.32	27.19	33.87	24.39	43.50	-19.11	QP
2	268.49	1.76	18.97	26.97	31.81	25.57	46.00	-20.43	QP
3	374.62	2.13	21.76	27.30	34.50	31.09	46.00	-14.91	QP
4 p	p 396.24	2.19	22.31	27.40	41.21	38.31	46.00	-7.69	QP
5	480.53	2.53	24.21	27.76	34.20	33.18	46.00	-12.82	QP
6	958 79	3 66	30 10	27 06	30 18	36 88	16 00	-9 12	OP



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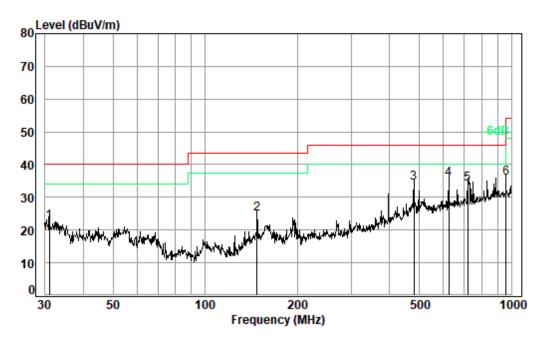
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Mode:e; Polarization:Vertical;



Condition: 3m VERTICAL : 02299CR Job No.

Test mode: e

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.96	0.60	21.95	27.73	27.84	22.66	40.00	-17.34	QP
2	147.92	1.31	14.44	27.37	36.66	25.04	43.50	-18.46	QP
3	480.53	2.53	24.21	27.76	35.49	34.47	46.00	-11.53	QP
4	625.08	2.75	26.95	28.11	34.04	35.63	46.00	-10.37	QP
5	719.20	2.96	28.02	27.89	30.91	34.00	46.00	-12.00	QP
6 рр	958.79	3.66	30.10	27.06	29.25	35.95	46.00	-10.05	QP



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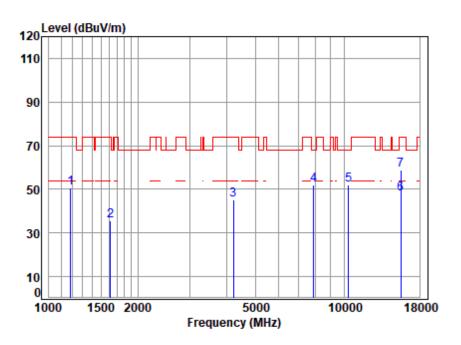


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR

Mode : 5180 TX RSE : 5G WIFI 11A Note

oce	. 50	AATIT	IIM						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	63.43	50.43	74.00	-23.57	peak
2	1615.754	3.36	26.32	40.58	46.30	35.40	74.00	-38.60	peak
3	4218.186	6.50	33.11	42.33	47.73	45.01	74.00	-28.99	peak
4	7875.254	9.32	36.60	41.26	47.33	51.99	68.20	-16.21	peak
5	10360.000	10.57	37.76	38.17	41.75	51.91	68.20	-16.29	peak
6	15540.000	13.97	40.72	40.58	33.94	48.05	54.00	-5.95	Average
7	15540.000	13.97	40.72	40.58	44.94	59.05	74.00	-14.95	peak



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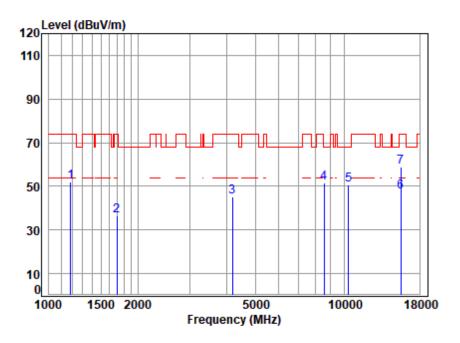
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Mode:e; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 02299CR/02300CR

Mode : 5180 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1105 036	2.74	24 52	40.27	C4 93	F4 00	74.00	22 40	
1	1185.936	2./4	24.55	40.27	64.62	51.62	74.00	-22.10	peak
2	1702.042	3.43	26.68	40.63	46.92	36.40	74.00	-37.60	peak
3	4181.768	6.46	33.04	42.31	47.99	45.18	74.00	-28.82	peak
4	8563.818	10.13	37.03	40.22	44.54	51.48	68.20	-16.72	peak
5	10360.000	10.57	37.76	38.17	40.56	50.72	68.20	-17.48	peak
6	15540.000	13.97	40.72	40.58	33.12	47.23	54.00	-6.77	Average
7	15540.000	13.97	40.72	40.58	44.61	58.72	74.00	-15.28	peak



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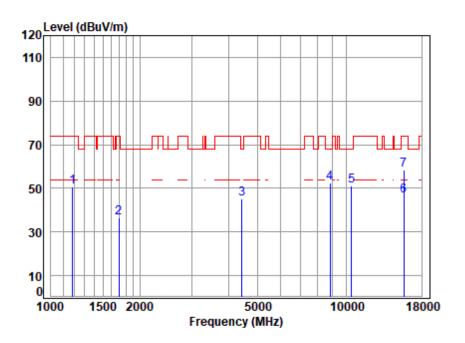
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Mode:e; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR

Mode : 5220 TX RSE Note : 5G WIFI 11A

		****	114						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
			-ID (-			-ID- 3//-	-ID- 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1185.936	2.74	24.53	40.27	63.50	50.50	74.00	-23.50	peak
2	1702.042	3.43	26.68	40.63	47.21	36.69	74.00	-37.31	peak
3	4430.628	6.70	33.48	42.50	47.51	45.19	68.20	-23.01	peak
4	8814.957	10.23	37.13	39.81	44.97	52.52	68.20	-15.68	peak
5	10440.000	10.55	37.72	38.21	41.07	51.13	68.20	-17.07	peak
6	15660.000	14.02	40.80	40.58	32.51	46.75	54.00	-7.25	Average
7	15660.000	14.02	40.80	40.58	44.28	58.52	74.00	-15.48	peak



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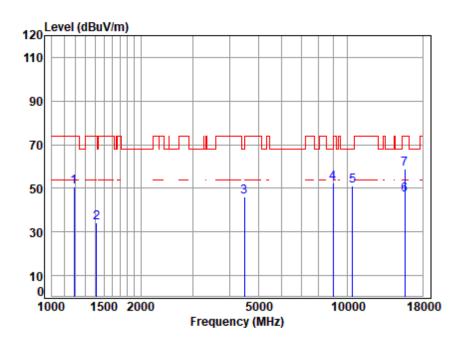
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Report No.: SZEM200400229905

Page: 39 of 240

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5220 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	63.55	50.56	74.00	-23.44	peak
2	1418.692	3.14	25.50	40.45	46.18	34.37	74.00	-39.63	peak
3	4495.125	6.76	33.59	42.55	48.26	46.06	68.20	-22.14	peak
4	8943.274	10.28	37.18	39.60	44.48	52.34	68.20	-15.86	peak
5	10440.000	10.55	37.72	38.21	40.94	51.00	68.20	-17.20	peak
6	15660.000	14.02	40.80	40.58	32.78	47.02	54.00	-6.98	Average
7	15660.000	14.02	40.80	40.58	44.41	58.65	74.00	-15.35	peak



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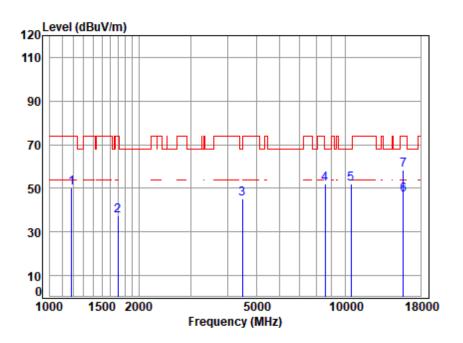
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Report No.: SZEM200400229905

Page: 40 of 240

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR

Mode : 5240 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	63.10	50.10	74.00	-23.90	peak
2	1697.129	3.43	26.66	40.63	47.99	37.45	74.00	-36.55	peak
3	4482.150	6.74	33.57	42.54	47.46	45.23	68.20	-22.97	peak
4	8539.102	10.12	37.02	40.26	44.98	51.86	68.20	-16.34	peak
5	10480.000	10.54	37.71	38.23	42.21	52.23	68.20	-15.97	peak
6	15720.000	14.04	40.83	40.57	32.82	47.12	54.00	-6.88	Average
7	15720.000	14.04	40.83	40.57	43.96	58.26	74.00	-15.74	peak



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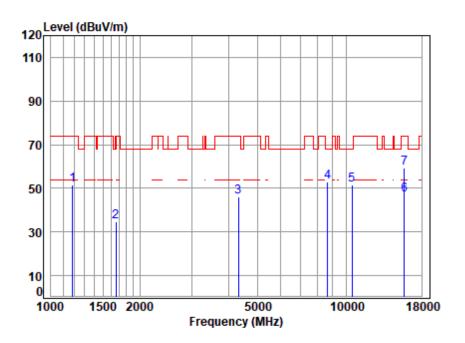
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5240 TX RSE : 5G WTFT 11A Note

ote	. 50	MILT	IIA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	64.39	51.39	74.00	-22.61	peak
2	1663.137	3.40	26.52	40.61	45.52	34.83	74.00	-39.17	peak
3	4316.859	6.59	33.28	42.41	48.50	45.96	74.00	-28.04	peak
4	8663.404	10.17	37.07	40.06	45.55	52.73	68.20	-15.47	peak
5	10480.000	10.54	37.71	38.23	41.54	51.56	68.20	-16.64	peak
6	15720.000	14.04	40.83	40.57	32.85	47.15	54.00	-6.85	Average
7	15720.000	14.04	40.83	40.57	44.96	59.26	74.00	-14.74	peak



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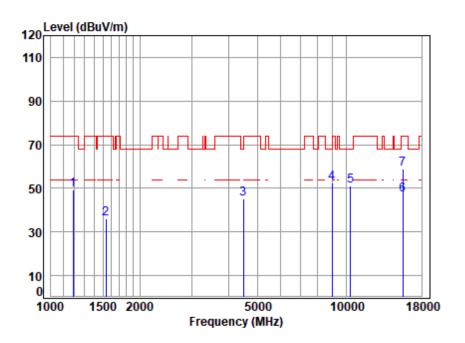
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	62.08	49.09	74.00	-24.91	peak
2	1538.281	3.29	25.98	40.53	47.18	35.92	74.00	-38.08	peak
3	4482.150	6.74	33.57	42.54	47.33	45.10	68.20	-23.10	peak
4	8969.161	10.29	37.19	39.56	44.72	52.64	68.20	-15.56	peak
5	10360.000	10.57	37.76	38.17	41.11	51.27	68.20	-16.93	peak
6	15540.000	13.97	40.72	40.58	33.10	47.21	54.00	-6.79	Average
7	15540.000	13.97	40.72	40.58	44.66	58.77	74.00	-15.23	peak



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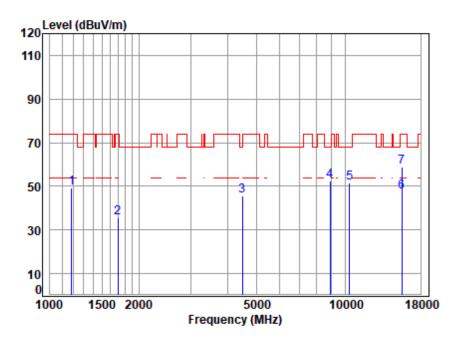
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5180 TX RSE : 5G WIFI 11N20 Note

oce	. 50	AATIT	111120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	62.07	49.07	74.00	-24.93	peak
2	1697.129	3.43	26.66	40.63	46.11	35.57	74.00	-38.43	peak
3	4482.150	6.74	33.57	42.54	47.84	45.61	68.20	-22.59	peak
4	8891.725	10.26	37.16	39.68	44.69	52.43	68.20	-15.77	peak
5	10360.000	10.57	37.76	38.17	41.46	51.62	68.20	-16.58	peak
6	15540.000	13.97	40.72	40.58	33.14	47.25	54.00	-6.75	Average
7	15540.000	13.97	40.72	40.58	44.94	59.05	74.00	-14.95	peak



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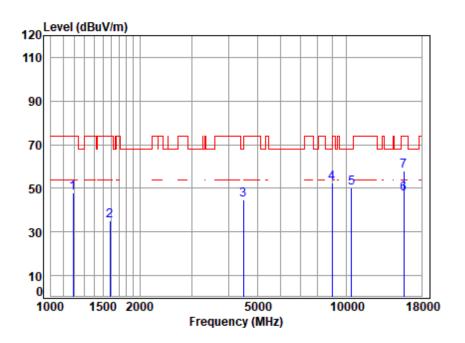
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5220 TX RSE Note : 5G WIFI 11N20

			11						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2 7/	2/ 5/	40.27	61 07	12 02	7/ 00	_25_92	noak
1									•
2	1583.392	3.33	26.18	40.56	46.01	34.96	74.00	-39.04	peak
3	4482.150	6.74	33.57	42.54	47.08	44.85	68.20	-23.35	peak
4	8943.274	10.28	37.18	39.60	44.48	52.34	68.20	-15.86	peak
5	10440.000	10.55	37.72	38.21	40.22	50.28	68.20	-17.92	peak
6	15660.000	14.02	40.80	40.58	32.99	47.23	54.00	-6.77	Average
7	15660.000	14.02	40.80	40.58	43.82	58.06	74.00	-15.94	peak



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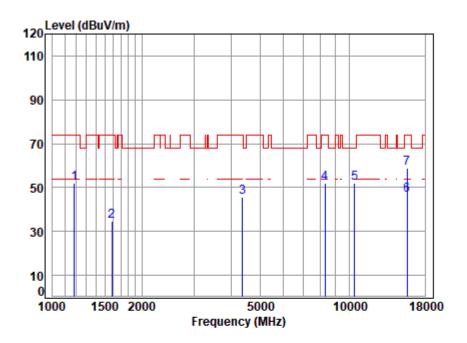
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02299CR/02300CR

: 5220 TX RSE Mode Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	65.09	52.09	74.00	-21.91	peak
2	1583.392	3.33	26.18	40.56	45.85	34.80	74.00	-39.20	peak
3	4367.058	6.64	33.37	42.45	48.14	45.70	74.00	-28.30	peak
4	8295.823	9.83	36.88	40.68	46.04	52.07	74.00	-21.93	peak
5	10440.000	10.55	37.72	38.21	41.94	52.00	68.20	-16.20	peak
6	15660.000	14.02	40.80	40.58	32.33	46.57	54.00	-7.43	Average
7	15660.000	14.02	40.80	40.58	44.56	58.80	74.00	-15.20	peak



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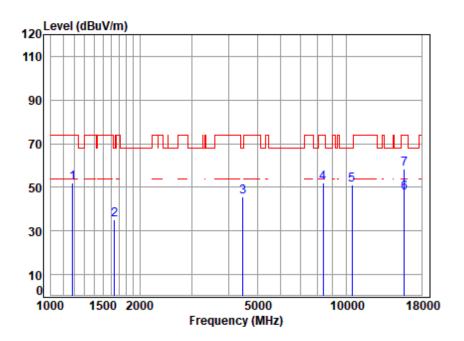
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 TX RSE Note : 5G WIFI 11N20

		****	111120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	65.01	52.01	74.00	-21.99	neak
2	1644.019								•
3	4469.214	6.73	33.55	42.53	47.76	45.51	68.20	-22.69	peak
4	8343.918	9.89	36.91	40.60	45.93	52.13	74.00	-21.87	peak
5	10480.000	10.54	37.71	38.23	41.03	51.05	68.20	-17.15	peak
6	15720.000	14.04	40.83	40.57	33.11	47.41	54.00	-6.59	Average
7	15720.000	14.04	40.83	40.57	44.06	58.36	74.00	-15.64	peak



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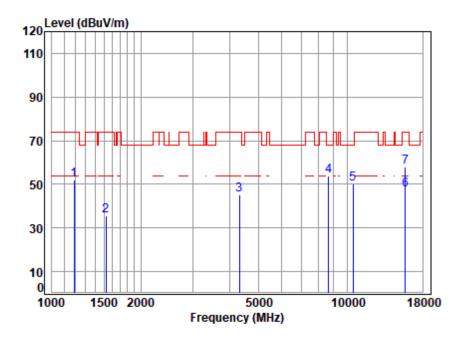
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5240 TX RSE Note : 5G WIFI 11N20

		****	111120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
			-ID (-			-ID- 3//-	-ID- 3//		
	MHz	dB	aB/m	dB	abuv	aBuv/m	aBuv/m	dB	
1	1189.368	2.74	24.54	40.27	65.17	52.18	74.00	-21.82	peak
2	1525.000	3.28	25.91	40.52	46.72	35.39	74.00	-38.61	peak
3	4316.859	6.59	33.28	42.41	47.88	45.34	74.00	-28.66	peak
4	8663.404	10.17	37.07	40.06	46.75	53.93	68.20	-14.27	peak
5	10480.000	10.54	37.71	38.23	40.33	50.35	68.20	-17.85	peak
6	15720.000	14.04	40.83	40.57	33.05	47.35	54.00	-6.65	Average
7	15720.000	14.04	40.83	40.57	43.75	58.05	74.00	-15.95	peak



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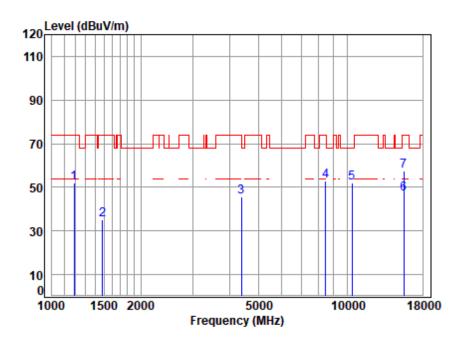
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5190 TX RSE Note : 5G WIFI 11N40

		****	1111-0						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: \//	dD: 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1189.368	2.74	24.54	40.27	64.90	51.91	74.00	-22.09	peak
2	1481.553	3.23	25.73	40.49	46.85	35.32	74.00	-38.68	peak
3	4392.376	6.66	33.42	42.47	48.24	45.85	74.00	-28.15	peak
4	8465.379	10.05	36.98	40.39	46.45	53.09	74.00	-20.91	peak
5	10380.000	10.57	37.75	38.18	41.69	51.83	68.20	-16.37	peak
6	15570.000	13.98	40.74	40.58	32.74	46.88	54.00	-7.12	Average
7	15570.000	13.98	40.74	40.58	43.20	57.34	74.00	-16.66	peak



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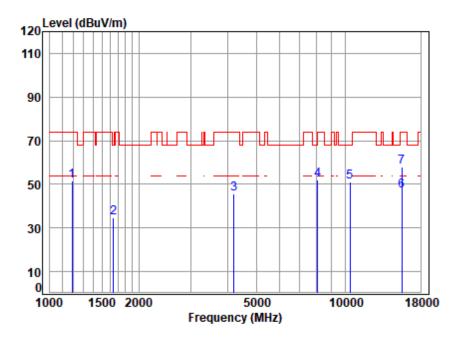
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5190 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	64.39	51.40	74.00	-22.60	neak
2	1644.019								•
3	4206.011	6.48	33.08	42.32	48.53	45.77	74.00	-28.23	peak
4	8082.804	9.54	36.75	41.05	46.64	51.88	74.00	-22.12	peak
5	10380.000	10.57	37.75	38.18	40.74	50.88	68.20	-17.32	peak
6	15570.000	13.98	40.74	40.58	32.95	47.09	54.00	-6.91	Average
7	15570.000	13.98	40.74	40.58	43.89	58.03	74.00	-15.97	peak



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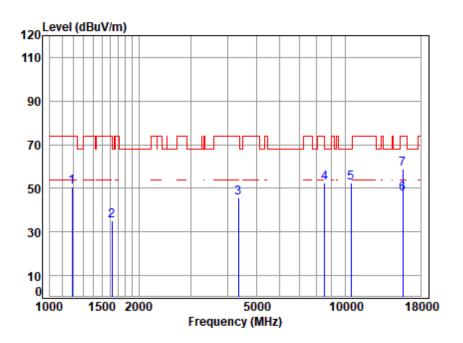
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5230 TX RSE : 5G WIFI 11N40 Note

oce	. 50	MATIT	111140						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	63.53	50.54	74.00	-23.46	peak
2	1620.431	3.36	26.34	40.58	46.03	35.15	74.00	-38.85	peak
3	4354.454	6.63	33.35	42.44	48.13	45.67	74.00	-28.33	peak
4	8514.456	10.11	37.01	40.31	45.88	52.69	68.20	-15.51	peak
5	10460.000	10.54	37.72	38.22	42.27	52.31	68.20	-15.89	peak
6	15690.000	14.03	40.82	40.58	33.09	47.36	54.00	-6.64	Average
7	15690.000	14.03	40.82	40.58	44.59	58.86	74.00	-15.14	peak



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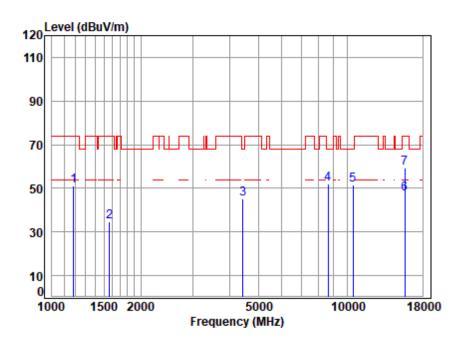
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5230 TX RSE Note : 5G WTFT 11N40

ote		MILI	111140						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	64.32	51.32	74.00	-22.68	peak
2	1565.191	3.32	26.10	40.55	46.03	34.90	74.00	-39.10	peak
3	4430.628	6.70	33.48	42.50	47.30	44.98	68.20	-23.22	peak
4	8613.468	10.15	37.05	40.14	44.98	52.04	68.20	-16.16	peak
5	10460.000	10.54	37.72	38.22	41.67	51.71	68.20	-16.49	peak
6	15690.000	14.03	40.82	40.58	33.15	47.42	54.00	-6.58	Average
7	15690.000	14.03	40.82	40.58	45.01	59.28	74.00	-14.72	peak



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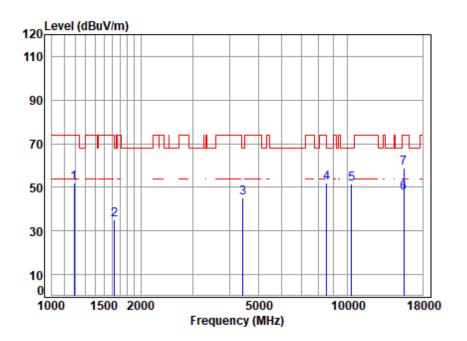
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 TX RSE

> : 5G WIFI 11AC20 Cable Ant Preamp Read Limit Loss Factor Factor Level Level

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	65.07	52.08	74.00	-21.92	peak
2	1629.825	3.37	26.38	40.59	46.04	35.20	68.20	-33.00	peak
3	4443.453	6.71	33.50	42.51	47.58	45.28	68.20	-22.92	peak
4	8514.456	10.11	37.01	40.31	45.18	51.99	68.20	-16.21	peak
5	10360.000	10.57	37.76	38.17	41.40	51.56	68.20	-16.64	peak
6	15540.000	13.97	40.72	40.58	33.13	47.24	54.00	-6.76	Average
7	15540.000	13.97	40.72	40.58	44.80	58.91	74.00	-15.09	peak



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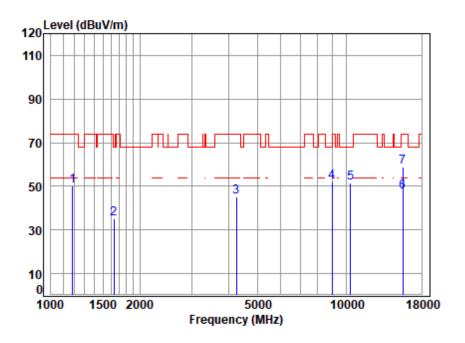
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5180 TX RSE Note : 5G WIFI 11AC20

,		****	TINCEO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	63.36	50.36	74.00	-23.64	peak
2	1634.543	3.38	26.40	40.59	45.79	34.98	68.20	-33.22	peak
3	4254.921	6.53	33.17	42.36	47.75	45.09	74.00	-28.91	peak
4	8969.161	10.29	37.19	39.56	44.13	52.05	68.20	-16.15	peak
5	10360.000	10.57	37.76	38.17	41.30	51.46	68.20	-16.74	peak
6	15540.000	13.97	40.72	40.58	33.51	47.62	54.00	-6.38	Average
7	15540.000	13.97	40.72	40.58	44.76	58.87	74.00	-15.13	peak



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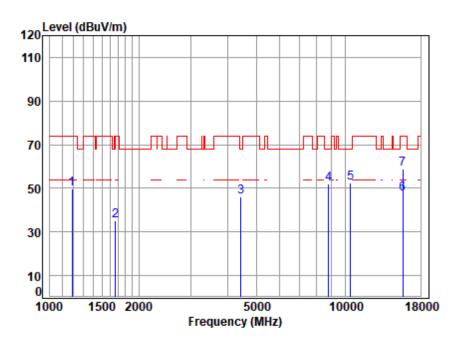
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5220 TX RSE

Note	: 5G	WIFI	11AC20						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	62.65	49.66	74.00	-24.34	peak
2	1667.951	3.40	26.54	40.61	46.02	35.35	74.00	-38.65	peak
3	4443.453	6.71	33.50	42.51	48.58	46.28	68.20	-21.92	peak
4	8789.516	10.22	37.12	39.85	44.63	52.12	68.20	-16.08	peak
5	10440.000	10.55	37.72	38.21	42.59	52.65	68.20	-15.55	peak
6	15660.000	14.02	40.80	40.58	33.30	47.54	54.00	-6.46	Average
7	15660.000	14.02	40.80	40.58	44.62	58.86	74.00	-15.14	peak



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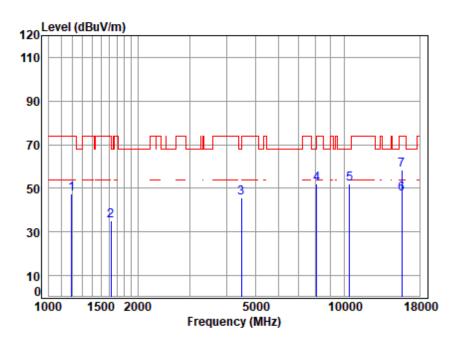
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 02299CR/02300CR

Mode : 5220 TX RSE Note : 5G WIFI 11AC20

		****	IIACEO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1192.811	2.75	24.56	40.28	60.63	47.66	74.00	-26.34	peak
2	1625.121			40.59					•
3	4482.150								•
4	8082.804	9.54	36.75	41.05	46.86	52.10	74.00	-21.90	peak
5	10440.000	10.55	37.72	38.21	41.91	51.97	68.20	-16.23	peak
6	15660.000	14.02	40.80	40.58	33.08	47.32	54.00	-6.68	Average
7	15660.000	14.02	40.80	40.58	44.24	58.48	74.00	-15.52	peak



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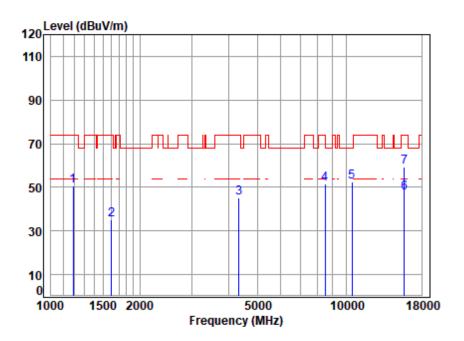
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Report No.: SZEM200400229905

Page: 56 of 240

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 TX RSE

: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	63.60	50.61	74.00	-23.39	peak
2	1601.804	3.35	26.26	40.57	46.32	35.36	74.00	-38.64	peak
3	4329.354	6.60	33.30	42.42	47.57	45.05	74.00	-28.95	peak
4	8489.882	10.09	36.99	40.35	44.90	51.63	74.00	-22.37	peak
5	10480.000	10.54	37.71	38.23	42.27	52.29	68.20	-15.91	peak
6	15720.000	14.04	40.83	40.57	32.95	47.25	54.00	-6.75	Average
7	15720.000	14.04	40.83	40.57	44.95	59.25	74.00	-14.75	peak



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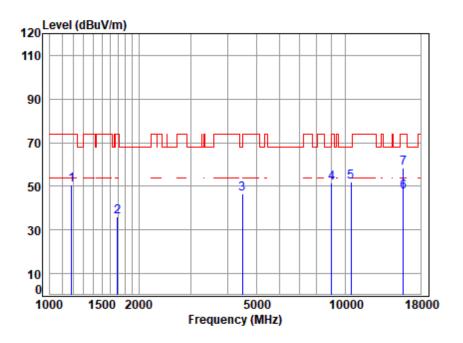
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5240 TX RSE Note : 5G WIFI 11AC20

			TILLE						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	63.60	50.60	74.00	-23.40	peak
2	1692.231	3.42	26.64	40.63	46.80	36.23	74.00	-37.77	peak
3	4495.125	6.76	33.59	42.55	48.55	46.35	68.20	-21.85	peak
4	8995.123	10.30	37.20	39.52	43.78	51.76	68.20	-16.44	peak
5	10480.000	10.54	37.71	38.23	41.95	51.97	68.20	-16.23	peak
6	15720.000	14.04	40.83	40.57	33.34	47.64	54.00	-6.36	Average
7	15720.000	14.04	40.83	40.57	44.21	58.51	74.00	-15.49	peak



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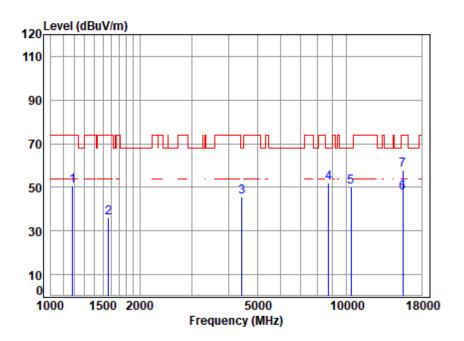
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5190 TX RSE Note : 5G WIFI 11AC40

			11/10/10						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1105 036	2.74	24 52	40.27	C2 FC	FQ FC	74.00	22.44	
1	1185.936	2./4	24.55	40.27	65.56	50.56	74.00	-23.44	peak
2	1565.191	3.32	26.10	40.55	47.19	36.06	74.00	-37.94	peak
3	4430.628	6.70	33.48	42.50	47.73	45.41	68.20	-22.79	peak
4	8713.630	10.19	37.09	39.97	44.86	52.17	68.20	-16.03	peak
5	10380.000	10.57	37.75	38.18	40.23	50.37	68.20	-17.83	peak
6	15570.000	13.98	40.74	40.58	33.39	47.53	54.00	-6.47	Average
7	15570.000	13.98	40.74	40.58	43.89	58.03	74.00	-15.97	peak



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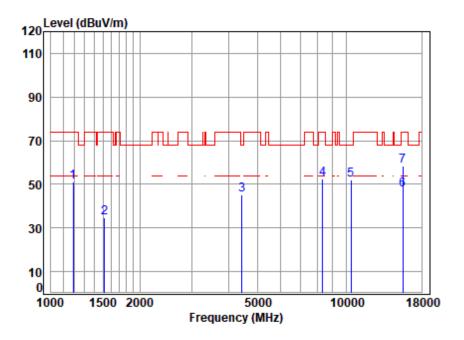
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5190 TX RSE Note : 5G WIFI 11AC40

			±±/10.0						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	63.95	50.96	74.00	-23.04	peak
2	1516.210	3.27	25.87	40.52	46.01	34.63	74.00	-39.37	peak
3	4430.628	6.70	33.48	42.50	47.41	45.09	68.20	-23.11	peak
4	8319.836	9.86	36.89	40.64	46.59	52.70	74.00	-21.30	peak
5	10380.000	10.57	37.75	38.18	41.79	51.93	68.20	-16.27	peak
6	15570.000	13.98	40.74	40.58	33.49	47.63	54.00	-6.37	Average
7	15570.000	13.98	40.74	40.58	44.32	58.46	74.00	-15.54	peak



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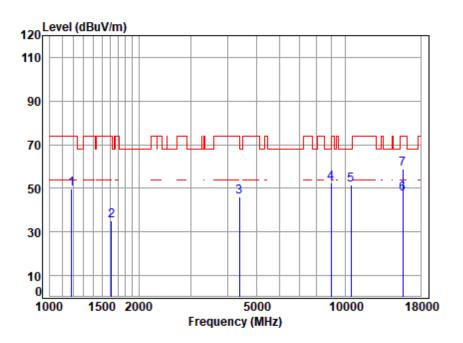
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5230 TX RSE

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	62.73	49.73	74.00	-24.27	peak
2	1615.754	3.36	26.32	40.58	45.97	35.07	74.00	-38.93	peak
3	4379.699	6.65	33.39	42.46	48.59	46.17	74.00	-27.83	peak
4	8943.274	10.28	37.18	39.60	44.48	52.34	68.20	-15.86	peak
5	10460.000	10.54	37.72	38.22	41.58	51.62	68.20	-16.58	peak
6	15690.000	14.03	40.82	40.58	33.35	47.62	54.00	-6.38	Average
7	15690.000	14.03	40.82	40.58	44.46	58.73	74.00	-15.27	peak



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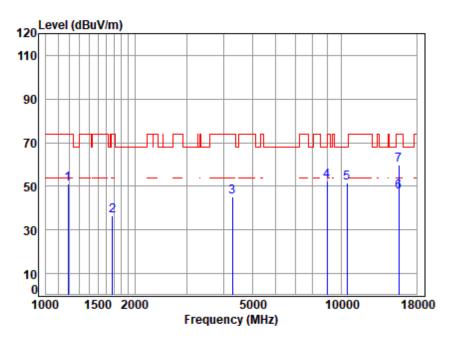
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5230 TX RSE Note : 5G WIFI 11AC40

		****	11/10/10						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	64.19	51.20	74.00	-22.80	peak
2	1682.477	3.42	26.60	40.62	46.91	36.31	74.00	-37.69	peak
3	4279.589	6.56	33.22	42.38	47.56	44.96	74.00	-29.04	peak
4	8969.161	10.29	37.19	39.56	44.47	52.39	68.20	-15.81	peak
5	10460.000	10.54	37.72	38.22	41.47	51.51	68.20	-16.69	peak
6	15690.000	14.03	40.82	40.58	33.25	47.52	54.00	-6.48	Average
7	15690.000	14.03	40.82	40.58	45.39	59.66	74.00	-14.34	peak



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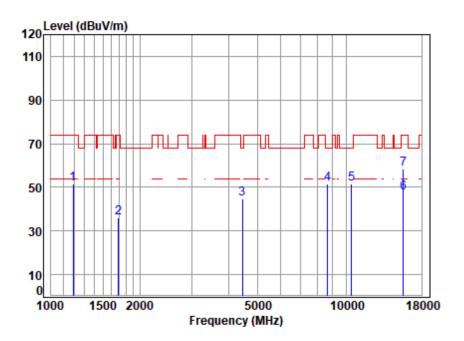
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5210 TX RSE Note : 5G WIFI 11AC80

		****	TIMOUU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	64.45	51.46	74.00	-22.54	peak
2	1692.231	3.42	26.64	40.63	46.72	36.15	74.00	-37.85	peak
3	4456.315	6.72	33.53	42.52	46.90	44.63	68.20	-23.57	peak
4	8663.404	10.17	37.07	40.06	44.32	51.50	68.20	-16.70	peak
5	10420.000	10.56	37.73	38.20	41.54	51.63	68.20	-16.57	peak
6	15630.000	14.01	40.78	40.58	33.18	47.39	54.00	-6.61	Average
7	15630.000	14.01	40.78	40.58	44.19	58.40	74.00	-15.60	peak



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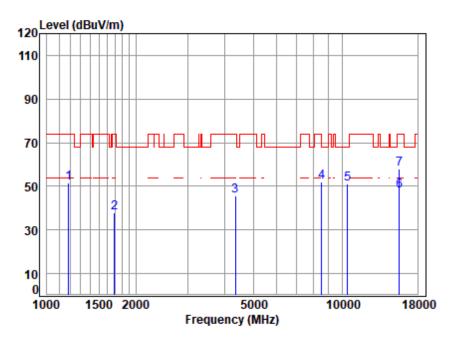
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5210 TX RSE Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2 74	24 52	40 27	61 61	E1 61	74 00	22.26	noole
1	1103.930	2.74	24.55	40.27	04.04	31.04	74.00	-22.30	peak
2	1692.231	3.42	26.64	40.63	48.33	37.76	74.00	-36.24	peak
3	4354.454	6.63	33.35	42.44	48.24	45.78	74.00	-28.22	peak
4	8514.456	10.11	37.01	40.31	45.02	51.83	68.20	-16.37	peak
5	10420.000	10.56	37.73	38.20	41.05	51.14	68.20	-17.06	peak
6	15630.000	14.01	40.78	40.58	33.61	47.82	54.00	-6.18	Average
7	15630.000	14.01	40.78	40.58	43.65	57.86	74.00	-16.14	peak



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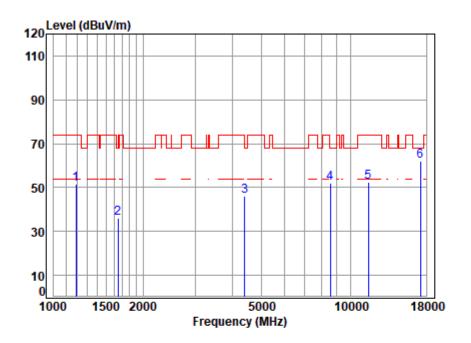
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR

Mode : 5745 TX RSE Note : 5G WIFI 11A

		Cable Ant Preamp Read Limit				Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	64.40	51.41	74.00	-22.59	peak
2	1648.778	3.39	26.46	40.60	46.60	35.85	68.20	-32.35	peak
3	4405.090	6.67	33.44	42.48	48.58	46.21	68.20	-21.99	peak
4	8563.818	10.13	37.03	40.22	45.16	52.10	68.20	-16.10	peak
5	11490.000	11.62	37.90	38.69	41.86	52.69	74.00	-21.31	peak
	17235.000								•



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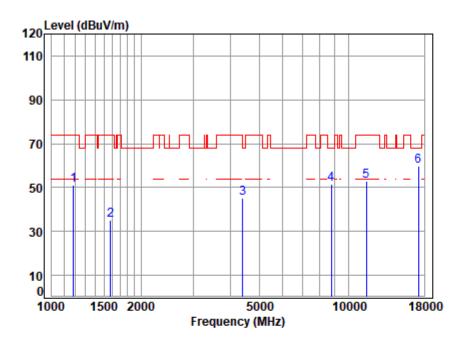
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5745 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	64.04	51.04	74.00	-22.96	peak
2	1578.822	3.33	26.16	40.56	46.14	35.07	74.00	-38.93	peak
3	4405.090	6.67	33.44	42.48	47.74	45.37	68.20	-22.83	peak
4	8738.852	10.20	37.10	39.93	44.37	51.74	68.20	-16.46	peak
5	11490.000	11.62	37.90	38.69	41.94	52.77	74.00	-21.23	peak
6	17235.000	14.09	42.74	40.52	43.54	59.85	68.20	-8.35	peak



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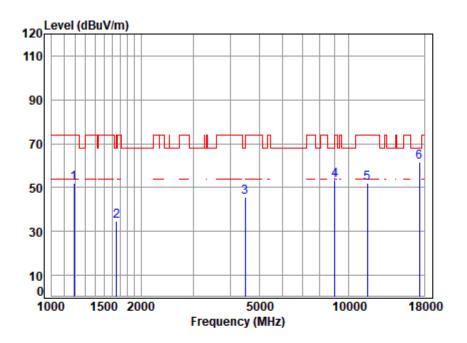
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Mode:f; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR Mode : 5785 TX RSE

Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	65.10	52.11	74.00	-21.89	peak
2	1653.550	3.39	26.48	40.60	45.63	34.90	68.20	-33.30	peak
3	4495.125	6.76	33.59	42.55	47.60	45.40	68.20	-22.80	peak
4	8995.123	10.30	37.20	39.52	45.25	53.23	68.20	-14.97	peak
5	11570.000	11.72	37.87	38.72	41.16	52.03	74.00	-21.97	peak
6	17355.000	14.06	42.81	40.52	45.22	61.57	68.20	-6.63	peak



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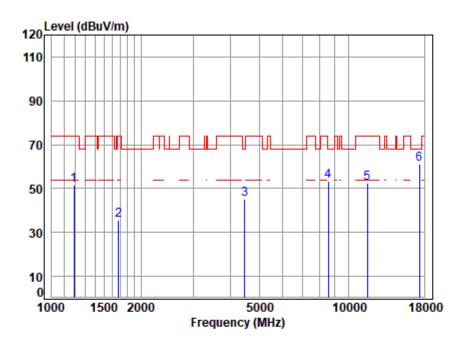
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Mode:f; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5785 TX RSE : 5G WIFI 11A Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1189.368	2.74	24.54	40.27	64.66	51.67	74.00	-22.33	peak
1677.621	3.41	26.58	40.62	46.19	35.56	74.00	-38.44	peak
4469.214	6.73	33.55	42.53	47.37	45.12	68.20	-23.08	peak
8539.102	10.12	37.02	40.26	46.66	53.54	68.20	-14.66	peak
11570.000	11.72	37.87	38.72	41.48	52.35	74.00	-21.65	peak
17355.000	14.06	42.81	40.52	44.95	61.30	68.20	-6.90	peak



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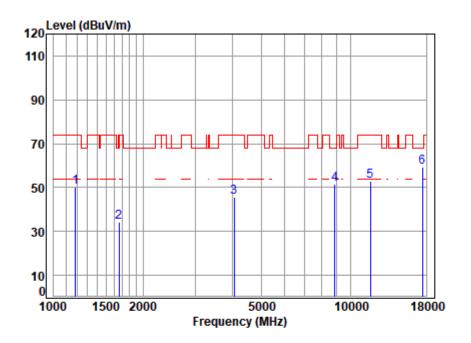
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Mode:f; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR Mode : 5825 TX RSE

Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	63.17	50.17	74.00	-23.83	peak
2	1663.137	3.40	26.52	40.61	45.09	34.40	74.00	-39.60	peak
3	4062.629	6.34	32.82	42.21	48.87	45.82	74.00	-28.18	peak
4	8840.473	10.24	37.14	39.77	44.10	51.71	68.20	-16.49	peak
5	11650.000	11.82	37.84	38.75	42.12	53.03	74.00	-20.97	peak
6	17475.000	14.02	42.89	40.52	42.76	59.15	68.20	-9.05	peak



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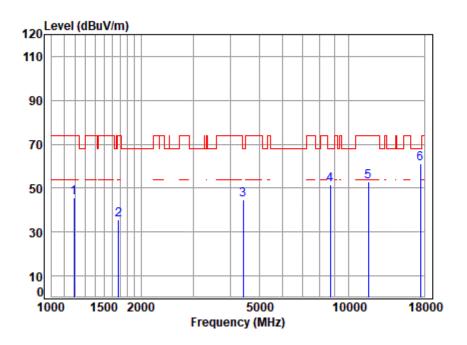
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Mode:f; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5825 TX RSE Note : 5G WTFT 11A

Nore	: 56	MTLT	IIA						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.811	2 75	24 56	10 28	58 59	45 62	7/ 00	_28_38	neak
_									•
2	1681.427	3.42	26.60	40.62	46.07	35.47	74.00	-38.53	peak
3	4412.841	6.68	33.46	42.49	47.02	44.67	68.20	-23.53	peak
4	8670.404	10.17	37.07	40.06	44.43	51.61	68.20	-16.59	peak
5	11650.000	11.82	37.84	38.75	42.94	53.85	74.00	-20.15	peak
6	17475 . 000	14.02	42.89	40.52	44.55	60.94	68.20	-7.26	neak



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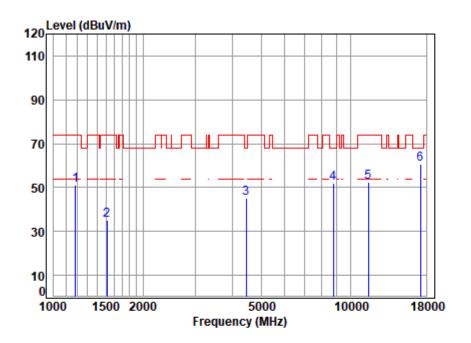
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Report No.: SZEM200400229905

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



Site : chamber

17235.000

Note

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Condition: 3m HORIZONTAL : 02299CR/02300CR : 5745 TX RSE Mode : 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1185.936	2.74	24.53	40.27	63.96	50.96	74.00	-23.04	peak
1511.833	3.27	25.85	40.51	46.75	35.36	74.00	-38.64	peak
4456.315	6.72	33.53	42.52	47.49	45.22	68.20	-22.98	peak
8738.852	10.20	37.10	39.93	44.56	51.93	68.20	-16.27	peak
11490.000	11.62	37.90	38.69	41.51	52.34	74.00	-21.66	peak

14.09 42.74 40.52 44.29 60.60 68.20 -7.60 peak



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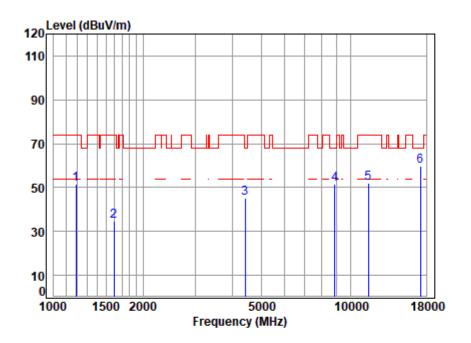
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

: 5745 TX RSE Mode Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Kead		Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1189.368	2.74	24.54	40.27	64.39	51.40	74.00	-22.60	peak	
1597.181	3.35	26.24	40.57	45.62	34.64	74.00	-39.36	peak	
4417.841	6.68	33.46	42.49	47.71	45.36	68.20	-22.84	peak	

11.62 37.90 38.69 40.97 51.80 74.00 -22.20 peak

8840.473 10.24 37.14 39.77 44.15 51.76 68.20 -16.44 peak

17235.000 14.09 42.74 40.52 43.62 59.93 68.20 -8.27 peak



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11490.000

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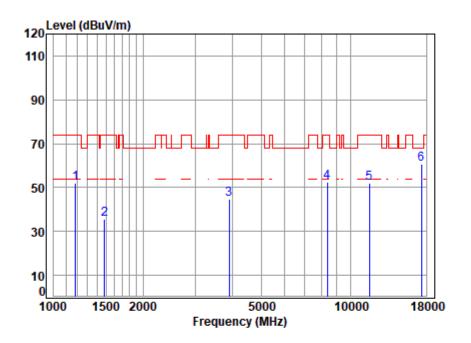
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Mode:f; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR : 5785 TX RSE Mode : 5G WIFI 11N20 Note

> Ant Preamp 0ver Cable Read Limit Level Loss Factor Factor Line Limit Remark Frea Level MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 2.74 24.53 40.27 65.05 1185.936 52.05 74.00 -21.95 peak 35.52 74.00 -38.48 peak 25.73 40.49 47.05 1481.553 3.23 3901.516 6.14 32.51 42.07 48.22 44.80 74.00 -29.20 peak 8368.069 9.92 36.92 40.55 46.13 52.42 74.00 -21.58 peak 11.72 37.87 38.72 41.28 52.15 74.00 -21.85 peak 11570.000

> > 14.06 42.81 40.52 44.48 60.83 68.20 -7.37 peak



17355.000

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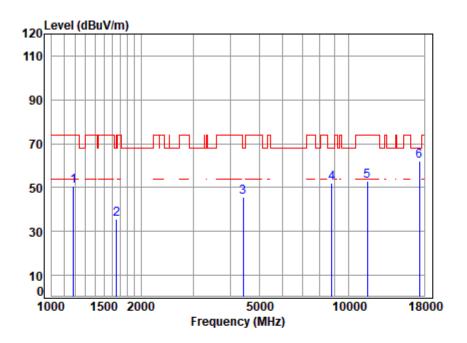
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Mode:f; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

: 5785 TX RSE Mode : 5G WIFI 11N20 Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4405 036	0.74	04.53	40.07	63.00	F0 00	74.00	07.40	
1185.936	2./4	24.53	40.27	63.82	50.82	74.00	-23.18	peak
1653.550	3.39	26.48	40.60	46.16	35.43	68.20	-32.77	peak
4417.841	6.68	33.46	42.49	48.08	45.73	68.20	-22.47	peak
8789.516	10.22	37.12	39.85	44.59	52.08	68.20	-16.12	peak
11570.000	11.72	37.87	38.72	42.24	53.11	74.00	-20.89	peak

14.06 42.81 40.52 45.49 61.84 68.20 -6.36 peak



17355.000

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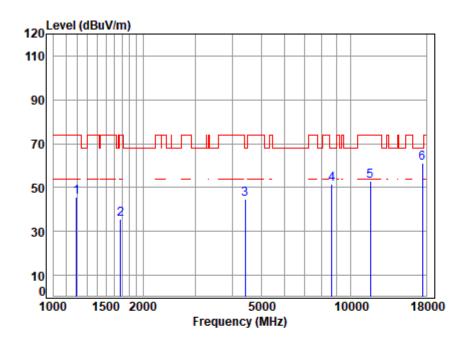
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR Mode : 5825 TX RSE Note : 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1192.811	2.75	24.56	40.28	58.59	45.62	74.00	-28.38	peak
1682.477	3.42	26.60	40.62	46.07	35.47	74.00	-38.53	peak
4417.841	6.68	33.46	42.49	47.02	44.67	68.20	-23.53	peak
8663.404	10.17	37.07	40.06	44.43	51.61	68.20	-16.59	peak
11650.000	11.82	37.84	38.75	42.14	53.05	74.00	-20.95	peak
17475.000	14.02	42.89	40.52	44.55	60.94	68.20	-7.26	peak



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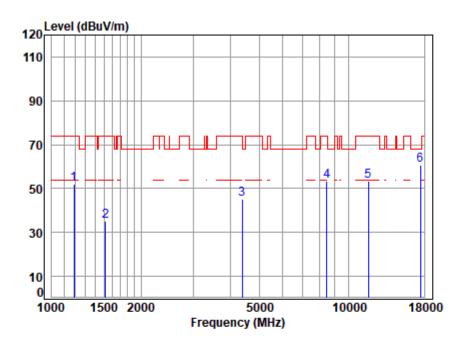
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5825 TX RSE Note : 5G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1189.368 1520.598 4392.376 8465.379	3.28 6.66 10.05	25.89 33.42 36.98	40.52 42.47 40.39	46.41 47.46 46.58	35.06 45.07 53.22	74.00 74.00 74.00	-38.94 -28.93 -20.78	peak peak peak
11650.000	11.82	37.84	38.75	42.70	53.61	74.00	-20.39	peak

17475.000 14.02 42.89 40.52 44.45 60.84 68.20 -7.36 peak



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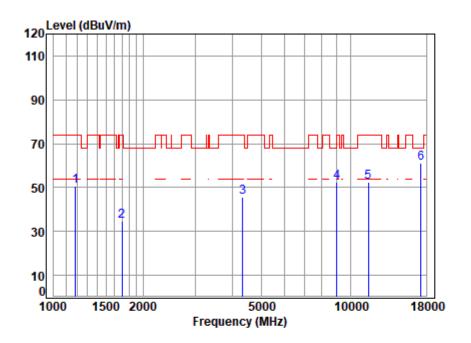
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR : 5755 TX RSE Mode : 5G WIFI 11N40 Note

> Ant Preamp 0ver Cable Read Limit Level Loss Factor Factor Level Line Limit Remark Frea MHz dBuV dBuV/m dBuV/m dB dB dB/m dB 1185.936 2.74 24.53 40.27 63.73 50.73 74.00 -23.27 peak 34.88 74.00 -39.12 peak 1702.042 3.43 26.68 40.63 45.40 4329.354 6.60 33.30 42.42 47.98 45.46 74.00 -28.54 peak 8995.123 10.30 37.20 39.52 44.60 52.58 68.20 -15.62 peak 11.64 37.90 38.69 41.48 52.33 74.00 -21.67 peak 11510.000

> > 14.08 42.76 40.52 44.96 61.28 68.20 -6.92 peak



17265.000

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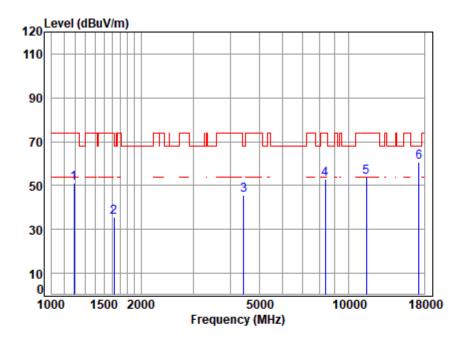
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Mode:f; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5755 TX RSE Note : 5G WIFI 11N40

> Ant Preamp 0ver Cable Read Limit

Freq Loss Factor Factor Level Level Line Limit Remark dB MHz dB dBuV dBuV/m dBuV/m dB dB/m

1	1189.368	2.74	24.54	40.27	63.91	50.92	74.00 -23.08 peak
2	1620.431	3.36	26.34	40.58	46.29	35.41	74.00 -38.59 peak
3	4430.628	6.70	33.48	42.50	47.81	45.49	68.20 -22.71 peak
4	8368.069	9.92	36.92	40.55	46.56	52.85	74.00 -21.15 peak
5	11510.000	11.64	37.90	38.69	42.90	53.75	74.00 -20.25 peak
6	17265.000	14.08	42.76	40.52	44.43	60.75	68.20 -7.45 peak



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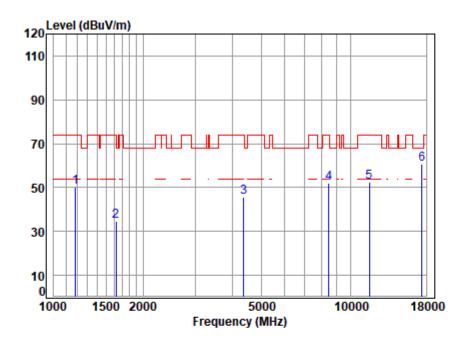
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Mode:f; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR Mode : 5795 TX RSE Note : 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	63.21	50.21	74.00	-23.79	peak
2	1625.121	3.37	26.36	40.59	45.61	34.75	74.00	-39.25	peak
3	4367.058	6.64	33.37	42.45	48.07	45.63	74.00	-28.37	peak
4	8465.379	10.05	36.98	40.39	45.35	51.99	74.00	-22.01	peak
5	11590.000	11.74	37.86	38.73	41.83	52.70	74.00	-21.30	peak
6	17385.000	14.05	42.83	40.52	44.26	60.62	68.20	-7.58	peak



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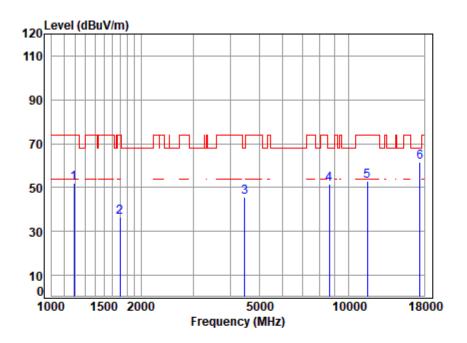
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5795 TX RSE Note : 5G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1189.368	2.74	24.54	40.27	65.21	52.22	74.00	-21.78	peak
1702.042	3.43	26.68	40.63	46.92	36.40	74.00	-37.60	peak
4469.214	6.73	33.55	42.53	47.74	45.49	68.20	-22.71	peak
8613.468	10.15	37.05	40.14	44.65	51.71	68.20	-16.49	peak
11590.000	11.74	37.86	38.73	42.19	53.06	74.00	-20.94	peak

17385.000 14.05 42.83 40.52 45.21 61.57 68.20 -6.63 peak



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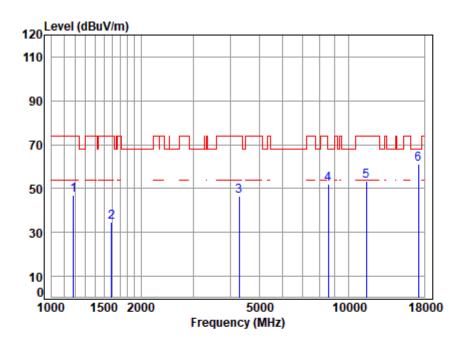
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR Mode : 5745 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	59.86	46.86	74.00	-27.14	peak
2	1592.571	3.34	26.22	40.57	45.83	34.82	74.00	-39.18	peak
3	4291.977	6.57	33.24	42.39	49.33	46.75	74.00	-27.25	peak
4	8563.818	10.13	37.03	40.22	45.20	52.14	68.20	-16.06	peak
5	11490.000	11.62	37.90	38.69	42.62	53.45	74.00	-20.55	peak
6	17235.000	14.09	42.74	40.52	44.92	61.23	68.20	-6.97	peak



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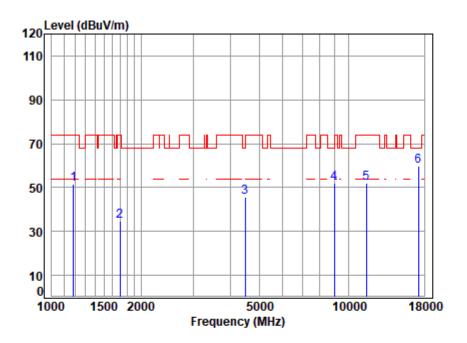
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5745 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	64.75	51.75	74.00	-22.25	peak
2	1702.042	3.43	26.68	40.63	45.08	34.56	74.00	-39.44	peak
3	4495.125	6.76	33.59	42.55	48.03	45.83	68.20	-22.37	peak
4	8969.161	10.29	37.19	39.56	43.89	51.81	68.20	-16.39	peak
5	11490.000	11.62	37.90	38.69	41.13	51.96	74.00	-22.04	peak
6	17235.000	14.09	42.74	40.52	43.65	59.96	68.20	-8.24	peak



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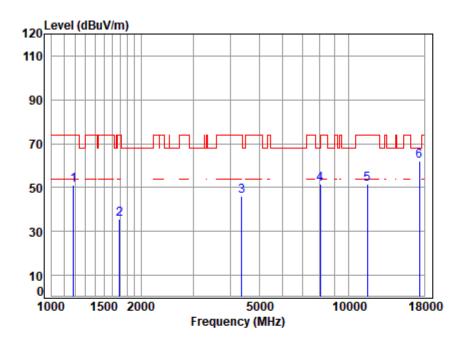
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber

Note

Condition: 3m HORIZONTAL : 02299CR/02300CR Mode : 5785 TX RSE

: 5G WIFI 11AC20

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1185.936								
2	1692.231	3.42	26.64	40.63	46.08	35.51	74.00	-38.49 p	peak
3	4367.058	6.64	33.37	42.45	48.47	46.03	74.00	-27.97 p	peak
4	8036.214	9.47	36.72	41.14	46.54	51.59	74.00	-22.41 p	peak
5	11570.000	11.72	37.87	38.72	40.82	51.69	74.00	-22.31 p	peak
6	17355.000	14.06	42.81	40.52	45.81	62.16	68.20	-6.04 p	peak



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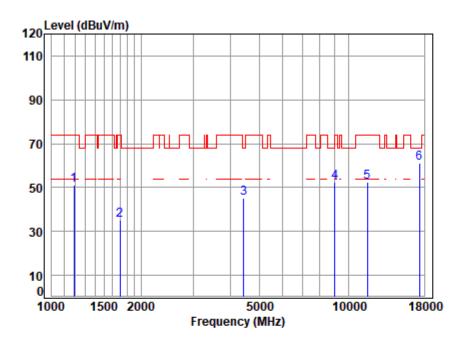
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5785 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	64.30	51.31	74.00	-22.69	peak
2	1702.042	3.43	26.68	40.63	45.50	34.98	74.00	-39.02	peak
3	4443.453	6.71	33.50	42.51	47.38	45.08	68.20	-23.12	peak
4	8995.123	10.30	37.20	39.52	44.58	52.56	68.20	-15.64	peak
5	11570.000	11.72	37.87	38.72	41.83	52.70	74.00	-21.30	peak
6	17355.000	14.06	42.81	40.52	44.68	61.03	68.20	-7.17	peak



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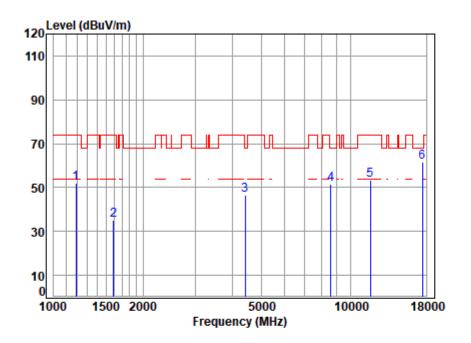
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Report No.: SZEM200400229905

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



Site : chamber

Note

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Condition: 3m HORIZONTAL : 02299CR/02300CR : 5825 TX RSE Mode

: 5G WIFI 11AC20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1189.368 1592.571	3.34	26.22	40.57	46.01	35.00	74.00	-39.00	peak
4417.841 8588.607 11650.000	10.14	37.04		44.63	51.63	68.20	-16.57	peak

17475.000 14.02 42.89 40.52 45.37 61.76 68.20 -6.44 peak



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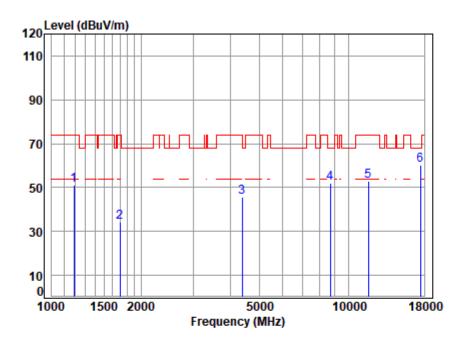
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5825 TX RSE

: 5G WIFI 11AC20 Note

			TIME						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	64.03	51.04	74.00	-22.96	peak
2	1697.129	3.43	26.66	40.63	44.89	34.35	74.00	-39.65	peak
3	4379.699	6.65	33.39	42.46	48.09	45.67	74.00	-28.33	peak
4	8688.480	10.18	37.08	40.02	44.67	51.91	68.20	-16.29	peak
	11650.000								•
6	17475.000	14.02	42.89	40.52	43.75	60.14	68.20	-8.06	peak



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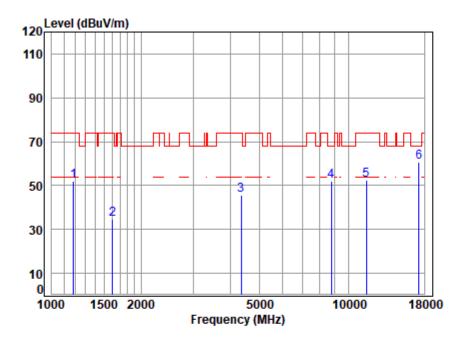
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Report No.: SZEM200400229905

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



Site : chamber

17265.000

Note

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Condition: 3m HORIZONTAL : 02299CR/02300CR : 5755 TX RSE Mode

: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1185.936	2.74	24.53	40.27	64.92	51.92	74.00	-22.08	peak
1601.804	3.35	26.26	40.57	45.84	34.88	74.00	-39.12	peak
4354.454	6.63	33.35	42.44	47.99	45.53	74.00	-28.47	peak
8764.146	10.21	37.11	39.89	44.55	51.98	68.20	-16.22	peak
11510.000	11.64	37.90	38.69	41.48	52.33	74.00	-21.67	peak

14.08 42.76 40.52 44.57 60.89 68.20 -7.31 peak



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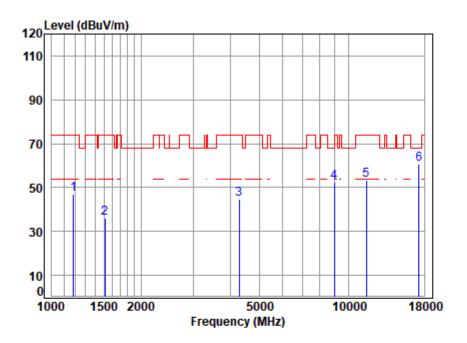
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02299CR/02300CR

Mode : 5755 TX RSE Note : 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1185.936	2.74	24.53	40.27	60.14	47.14	74.00	-26.86	peak
1511.833	3.27	25.85	40.51	47.64	36.25	74.00	-37.75	peak
4291.977	6.57	33.24	42.39	47.31	44.73	74.00	-29.27	peak
8943.274	10.28	37.18	39.60	44.50	52.36	68.20	-15.84	peak
11510.000								•
17265.000	14.08	42.76	40.52	44.22	60.54	68.20	-7.66	peak



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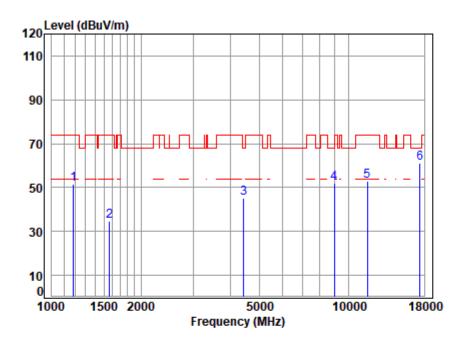
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Note

Condition: 3m HORIZONTAL : 02299CR/02300CR : 5795 TX RSE Mode : 5G WIFI 11AC40

Cable Ant Preamp Limit Read 0ver

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	64.41	51.41	74.00	-22.59	peak
2	1565.191	3.32	26.10	40.55	45.85	34.72	74.00	-39.28	peak
3	4430.628	6.70	33.48	42.50	47.67	45.35	68.20	-22.85	peak
4	8943.274	10.28	37.18	39.60	44.21	52.07	68.20	-16.13	peak
5	11590.000	11.74	37.86	38.73	42.13	53.00	74.00	-21.00	peak
6	17385.000	14.05	42.83	40.52	44.86	61.22	68.20	-6.98	peak



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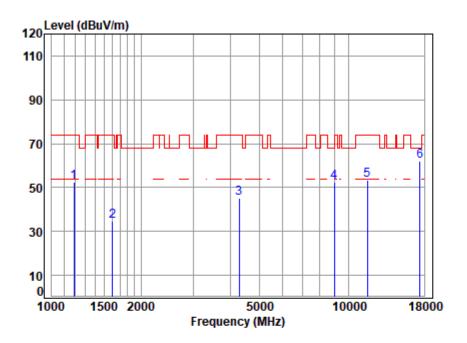
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5795 TX RSE

Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	65.65	52.66	74.00	-21.34	peak
2	1606.441	3.35	26.28	40.57	45.60	34.66	74.00	-39.34	peak
3	4279.589	6.56	33.22	42.38	47.79	45.19	74.00	-28.81	peak
4	8943.274	10.28	37.18	39.60	44.42	52.28	68.20	-15.92	peak
5	11590.000	11.74	37.86	38.73	42.41	53.28	74.00	-20.72	peak
6	17385.000	14.05	42.83	40.52	45.48	61.84	68.20	-6.36	peak



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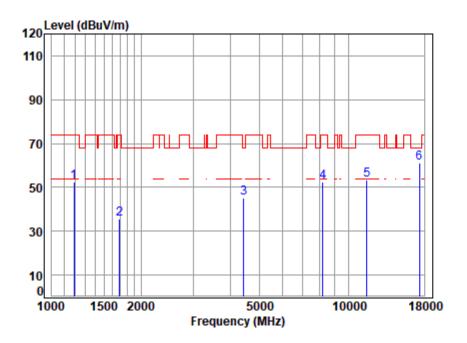
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL : 02299CR/02300CR : 5775 TX RSE Mode

Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	2.74	24.54	40.27	65.34	52.35	74.00	-21.65	peak
2	1692.231	3.42	26.64	40.63	46.31	35.74	74.00	-38.26	peak
3	4430.628	6.70	33.48	42.50	47.27	44.95	68.20	-23.25	peak
4	8200.463	9.70	36.82	40.85	46.60	52.27	74.00	-21.73	peak
5	11550.000	11.69	37.88	38.71	42.30	53.16	74.00	-20.84	peak
6	17325.000	14.07	42.80	40.52	44.68	61.03	68.20	-7.17	peak



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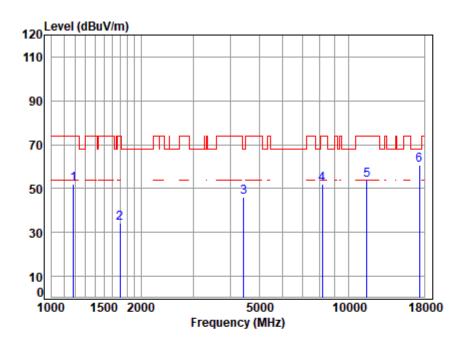
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02299CR/02300CR

Mode : 5775 TX RSE

Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	2.74	24.53	40.27	64.92	51.92	74.00	-22.08	peak
2	1697.129	3.43	26.66	40.63	44.91	34.37	74.00	-39.63	peak
3	4443.453	6.71	33.50	42.51	48.41	46.11	68.20	-22.09	peak
4	8176.795	9.67	36.81	40.89	46.29	51.88	74.00	-22.12	peak
5	11550.000	11.69	37.88	38.71	42.85	53.71	74.00	-20.29	peak
6	17325.000	14.07	42.80	40.52	44.31	60.66	68.20	-7.54	peak



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7.8 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15,209 & 15,407(b) **Test Requirement**

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.

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.



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7.8.1 E.U.T. Operation

Operating Environment:

23 °C Temperature: Humidity: 52.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

e: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.

f: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:

e: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.

f: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.



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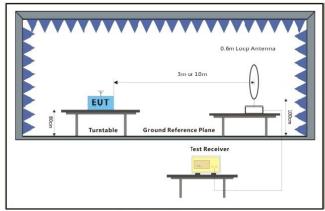
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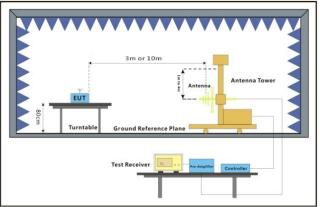


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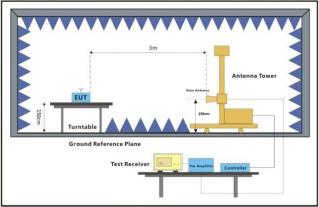
7.8.2 Test Setup Diagram





Below 30MHz

30 MHz - 1GHz



Above 1GHz



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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



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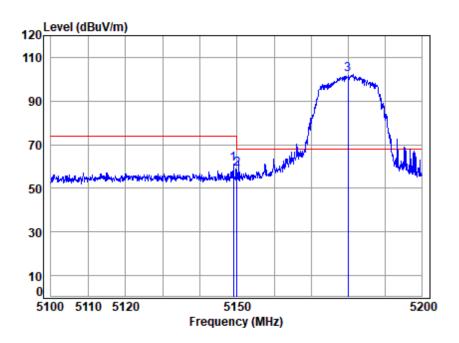
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Mode:e; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 Band edge

: 5G WIFI 11A

	. 50	AATI T	1177							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5148.958	7.57	34.32	42.79	62.24	61.34	74.00	-12.66	peak	
2	5149.980	7.57	34.32	42.79	59.85	58.95	74.00	-15.05	peak	
	5180.000								-	



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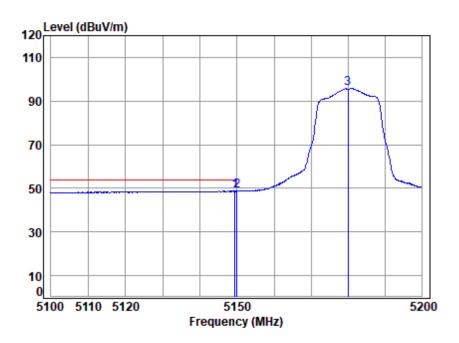
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Mode:e; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5149.357 5149.980 5180.000	7.57	34.32	42.79	49.66	48.76	54.00	-5.24	Average



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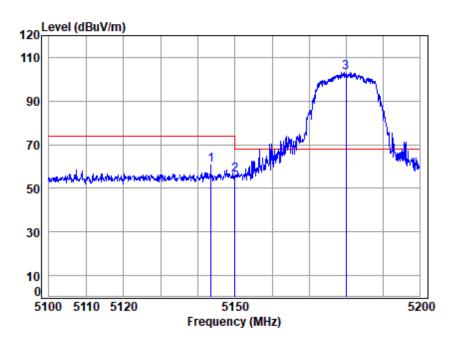
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Mode:e; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5180 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.461	7.56	34.32	42.80	61.53	60.61	74.00	-13.39	peak
	5149.980								•
	5180.000								•



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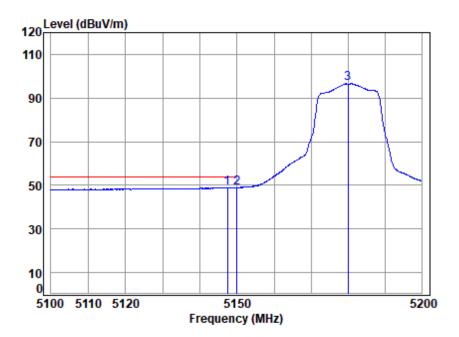
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Mode:e; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5180 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5147.358	7.57	34.32	42.79	49.88	48.98	54.00	-5.02	Average	
2	5149.980	7.57	34.32	42.79	49.92	49.02	54.00	-4.98	Average	
	5180.000								_	



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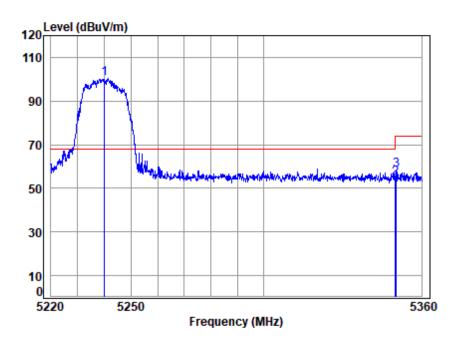
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Mode:e; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber

5350.362

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 Band edge : 5G WIFI 11A

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 * 5240.000 7.73 34.40 42.73 100.76 100.16 68.20 31.96 peak 5350.020 7.92 34.48 42.66 54.89 54.63 74.00 -19.37 peak

7.93 34.48 42.66 58.63 58.38 74.00 -15.62 peak



2

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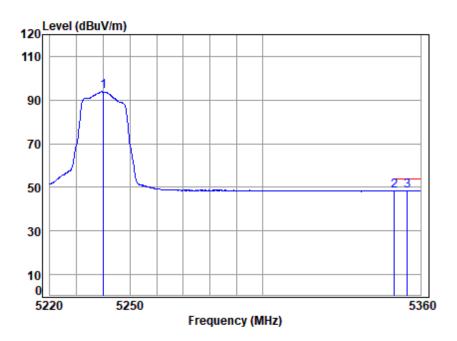
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Mode:e; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	7.73	34.40	42.73	94.43	93.83			Average	
2	5350.020	7.92	34.48	42.66	48.54	48.28	54.00	-5.72	Average	
3	5354.896	7.93	34.49	42.65	48.70	48.47	54.00	-5.53	Average	



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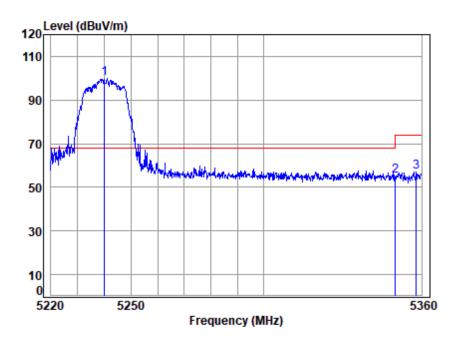
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Mode:e; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11A

	. 50	MATI T	117							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	* 5240.000	7.73	34.40	42.73	100.40	99.80	68.20	31.60	peak	
2	5350.020	7.92	34.48	42.66	55.55	55.29	74.00	-18.71	peak	
3	5358.014	7.94	34.49	42.65	57.31	57.09	74.00	-16.91	peak	



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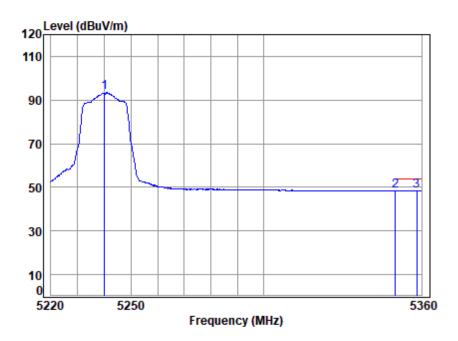
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Mode:e; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	7.73	34.40	42.73	93.93	93.33			Average	
2	5350.020	7.92	34.48	42.66	48.63	48.37	54.00	-5.63	Average	
3	5358.156	7.94	34.49	42.65	48.67	48.45	54.00	-5.55	Average	



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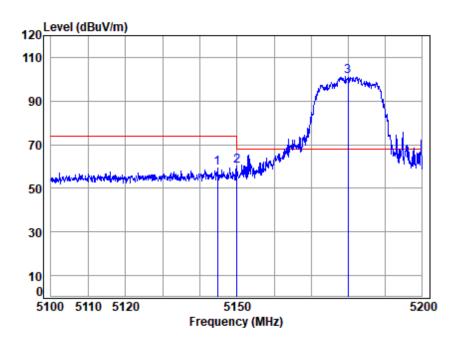
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 Band edge : 5G WIFI 11N20

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m dB

1	5144.660	7.56	34.32	42.80	60.36	59.44	74.00	-14.56 peak
2	5149.980	7.57	34.32	42.79	61.04	60.14	74.00	-13.86 peak
3 *	5180.000	7.63	34.35	42.77	101.86	101.07	68.20	32.87 peak



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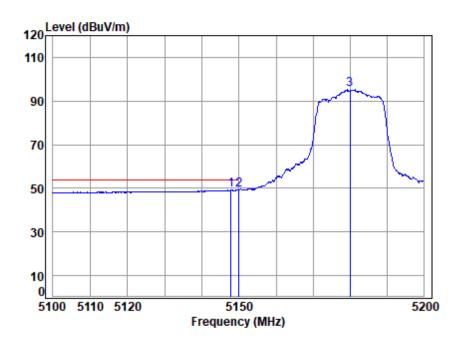
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 Band edge

: 5G WIFI 11N20

	. 50	MATI T	111120							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5147.758	7.57	34.32	42.79	50.14	49.24	54.00	-4.76	Average	
2	5149.980	7.57	34.32	42.79	50.31	49.41	54.00	-4.59	Average	
3	5180.000	7.63	34.35	42.77	95.96	95.17			Average	



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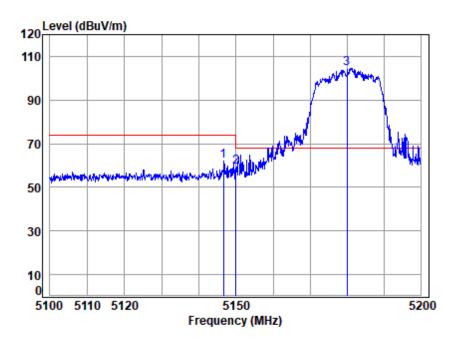
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5180 Band edge : 5G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5146.658	7.57	34.32	42.80	63.02	62.11	74.00	-11.89	peak
5149.980	7.57	34.32	42.79	60.05	59.15	74.00	-14.85	peak
5180.000	7.63	34.35	42.77	105.45	104.66	68.20	36.46	peak



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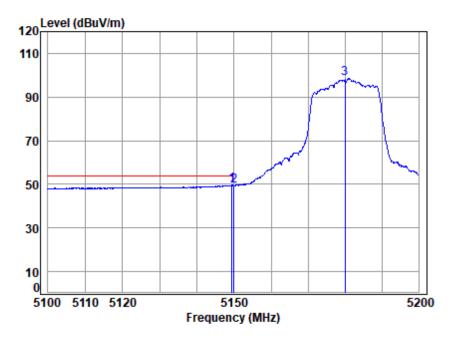
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5180 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.458	7.57	34.32	42.79	50.48	49.58	54.00	-4.42	Average	
2	5149.980	7.57	34.32	42.79	50.35	49.45	54.00	-4.55	Average	
3	5180.000	7.63	34.35	42.77	99.17	98.38			Average	



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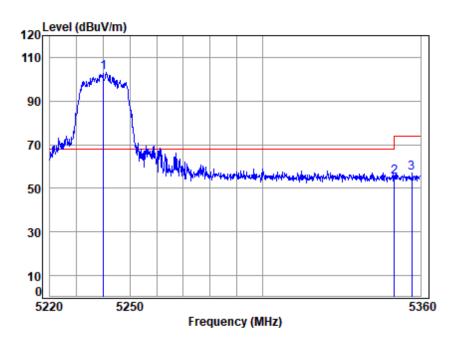
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5240.000 5350.020 5356.738	7.92	34.48	42.66	55.51	55.25	74.00	-18.75	peak



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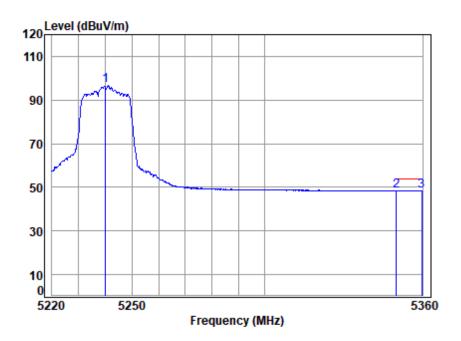
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.73	34.40	42.73	97.17	96.57			Average
2	5350.020	7.92	34.48	42.66	48.58	48.32	54.00	-5.68	Average
3	5359.716	7.94	34.49	42.65	48.62	48.40	54.00	-5.60	Average



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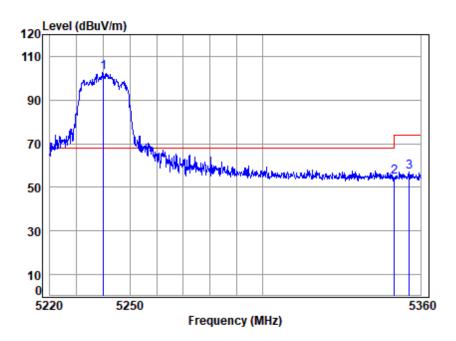
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

5355.746

Job No : 02299CR/02300CR Mode : 5240 Band edge : 5G WIFI 11N20

Freq				Read Level				Remark
 MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
40.000 50.020								•

7.93 34.49 42.65 57.46 57.23 74.00 -16.77 peak



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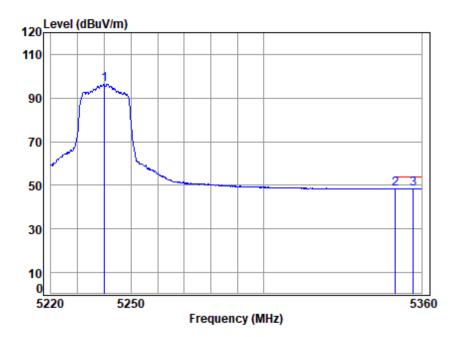
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	7.73	34.40	42.73	97.02	96.42			Average	
2	5350.020	7.92	34.48	42.66	48.52	48.26	54.00	-5.74	Average	
3	5356.880	7.94	34.49	42.65	48.66	48.44	54.00	-5.56	Average	



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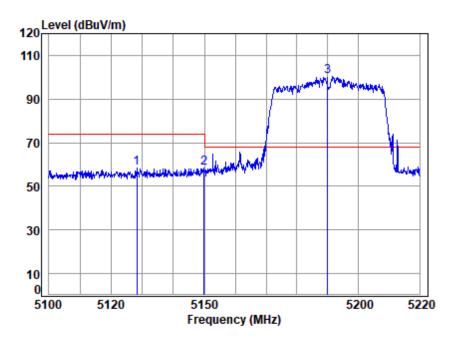
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR : 5190 Band edge Mode

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5128.188	7.53	34.31	42.81	59.25	58.28	74.00	-15.72	peak
2	5149.980	7.57	34.32	42.79	59.48	58.58	74.00	-15.42	peak
3 *	5190.000	7.64	34.36	42.77	101.15	100.38	68.20	32.18	peak



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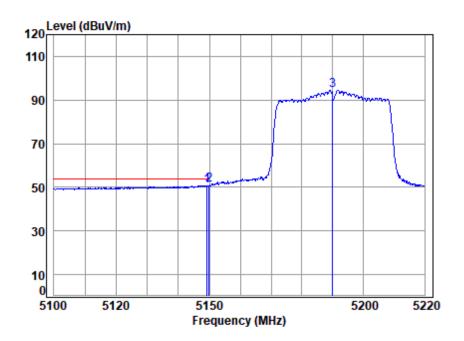
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5190 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.222	7.57	34.32	42.79	51.76	50.86	54.00	-3.14	Average	
	5149.980								_	
	5190.000								_	



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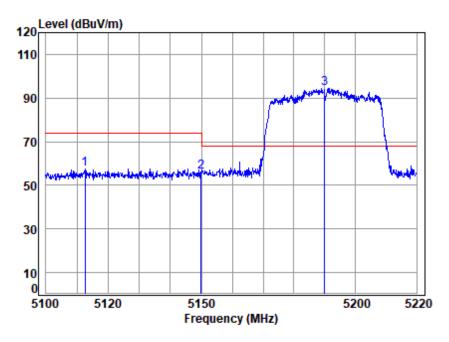
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5190 Band edge : 5G WIFI 11N40

	Freq				Read Level Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5112.588	7.51	34.29	42.82	58.69	57.67	74.00	-16.33	peak
2	5149.980	7.57	34.32	42.79	57.17	56.27	74.00	-17.73	peak
3 :	* 5190.000	7.64	34.36	42.77	95.21	94.44	68.20	26.24	peak



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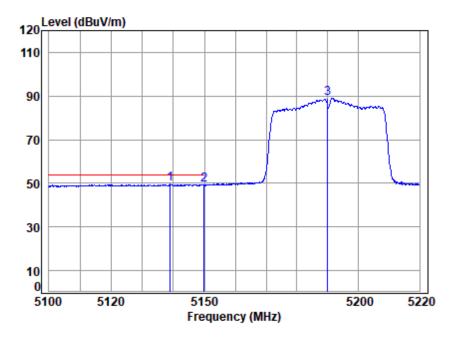
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR : 5190 Band edge Mode

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5138.933	7.55	34.32	42.80	50.45	49.52	54.00	-4.48	Average
2	5149.980	7.57	34.32	42.79	50.19	49.29	54.00	-4.71	Average
3	5190.000	7.64	34.36	42.77	89.81	89.04			Average



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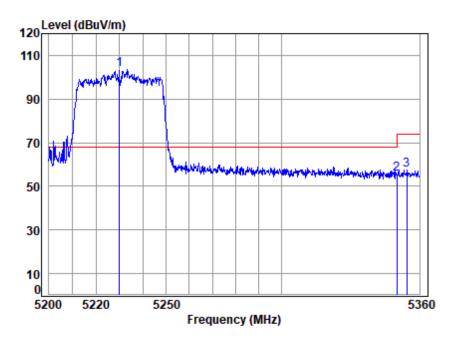
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Mode:e; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

5354.480

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5230 Band edge : 5G WIFI 11N40

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 * 5230.000 7.72 34.39 42.74 104.35 103.72 68.20 35.52 peak 5350.020 7.92 34.48 42.66 56.06 55.80 74.00 -18.20 peak

7.93 34.49 42.65 57.68 57.45



2

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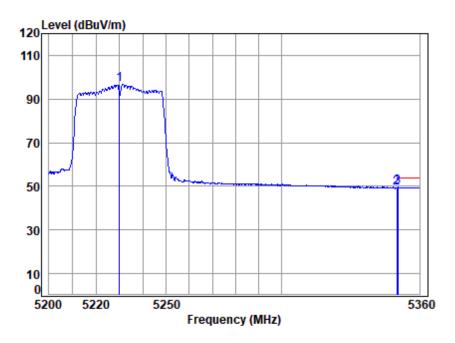
74.00 -16.55 peak



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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5230 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.74	97.47	96.84			Average
2	5350.020	7.92	34.48	42.66	49.56	49.30	54.00	-4.70	Average
3	5350.587	7.93	34.48	42.65	49.82	49.58	54.00	-4.42	Average



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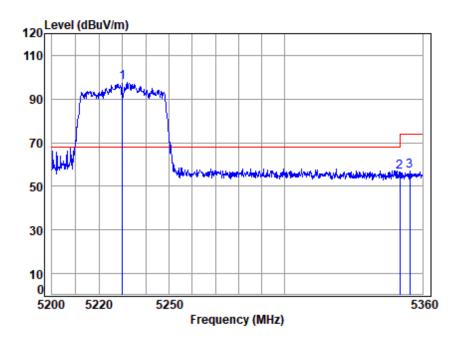
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

5354.480

Job No : 02299CR/02300CR Mode : 5230 Band edge : 5G WIFI 11N40

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 1 * 5230.000 7.72 34.39 42.74 98.49 97.86 68.20 29.66 peak 5350.020 7.92 34.48 42.66 56.62 56.36 74.00 -17.64 peak

42.65 57.18 56.95 74.00 -17.05 peak



2

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7.93

34.49

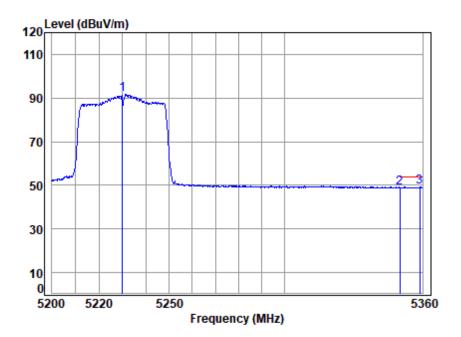
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Mode:e; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5230 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5230.000	7.72	34.39	42.74	92.17	91.54			Average	
2	5350.020	7.92	34.48	42.66	49.12	48.86	54.00	-5.14	Average	
3	5358.863	7.94	34.49	42.65	49.49	49.27	54.00	-4.73	Average	



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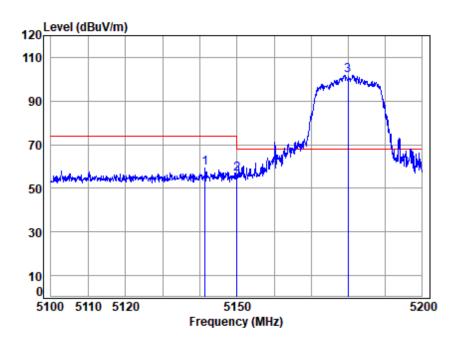
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Mode:e; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 Band edge : 5G WIFI 11AC20

7.63

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 5141.364 7.56 34.32 42.80 60.41 59.49 74.00 -14.51 peak 5149.980 7.57 34.32 42.79 57.43 56.53 74.00 -17.47 peak

34.35 42.77 102.68 101.89 68.20 33.69 peak



1

3 * 5180.000

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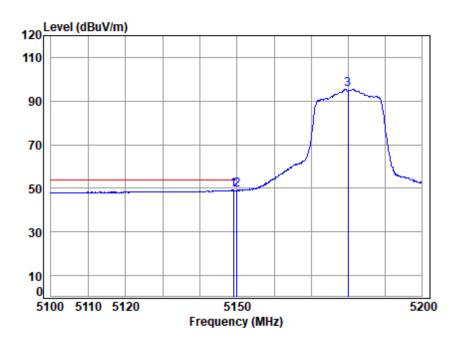
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Mode:e; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5180 Band edge

> : 5G WIFI 11AC20 Cable Ant Preamp Limit Read 0ver

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	7.57	34.32	42.79	50.04	49.14	54.00	-4.86	Average
2	5149.980	7.57	34.32	42.79	50.00	49.10	54.00	-4.90	Average
3	5180.000	7.63	34.35	42.77	96.10	95.31			Average



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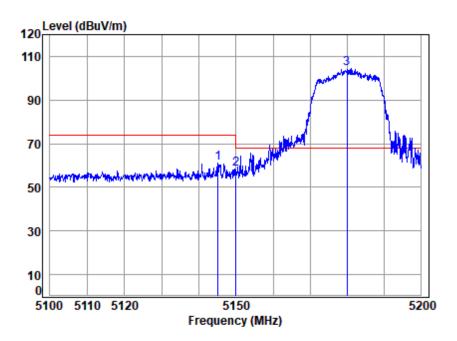
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5180 Band edge : 5G WIFI 11AC20

Freq						Limit Line		Remark
MHz						dBuV/m	——dB	
5145.159								•
5149.980								-
5180.000	7.63	34.35	42.77	105.50	104.71	68.20	36.51	peak



1

3 * 5180.000

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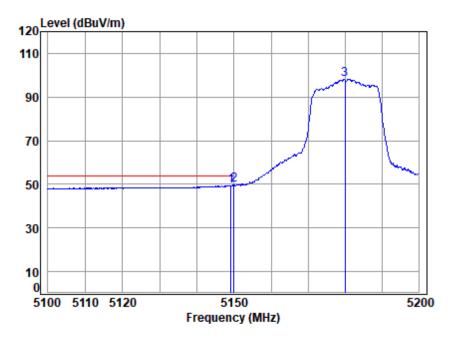
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5180 Band edge : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.157	7.57	34.32	42.79	50.34	49.44	54.00	-4.56	Average	
2	5149.980	7.57	34.32	42.79	50.55	49.65	54.00	-4.35	Average	
	5180.000								_	



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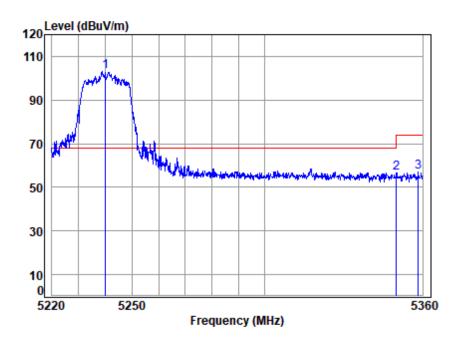
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Mode:e; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber

5358.298

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 Band edge : 5G WIFI 11AC20

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 1 * 5240.000 7.73 34.40 42.73 103.73 103.13 68.20 34.93 peak 5350.020 7.92 34.48 42.66 57.06 56.80 74.00 -17.20 peak

7.94 34.49 42.65 57.04 56.82 74.00 -17.18 peak



2

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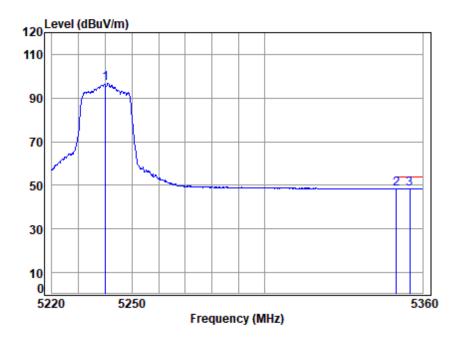
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Report No.: SZEM200400229905

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



Site : chamber

5355.179

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5240 Band edge : 5G WIFI 11AC20

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 5240.000 7.73 34.40 42.73 97.31 96.71 ----- Average 5350.020 7.92 34.48 42.66 48.63 48.37 54.00 -5.63 Average

> > 48.70 48.47



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7.93 34.49

42.65

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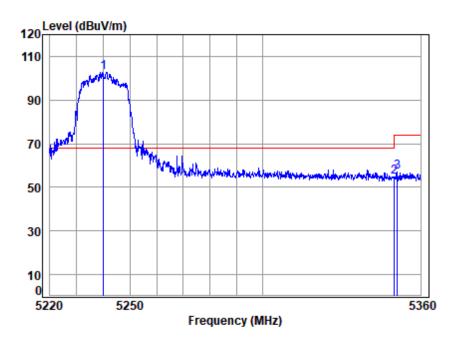
54.00 -5.53 Average



Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5240 Band edge

: 5G WIFI 11AC20

	. 50	AATI T	IIACZU							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	* 5240.000	7.73	34.40	42.73	103.38	102.78	68.20	34.58	peak	
2	5350.020	7.92	34.48	42.66	55.03	54.77	74.00	-19.23	peak	
3	5351.212	7.93	34.48	42.65	57.05	56.81	74.00	-17.19	peak	



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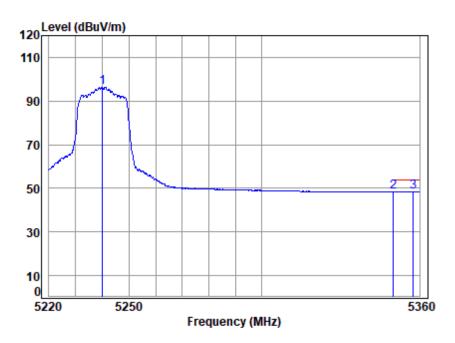
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

5357.589

Job No : 02299CR/02300CR Mode : 5240 Band edge : 5G WIFI 11AC20

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 5240.000 7.73 34.40 42.73 96.95 96.35 ----- Average 5350.020 7.92 34.48 42.66 48.47 -5.79 Average 48.21 54.00

> > 48.61



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7.94 34.49 42.65

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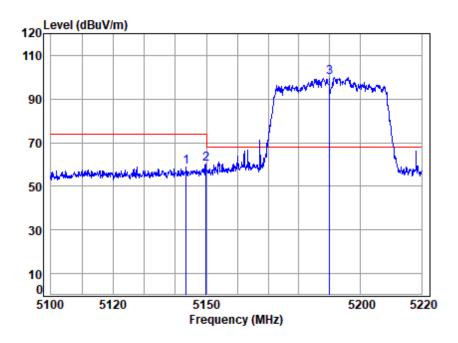
48.39 54.00 -5.61 Average



Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5190 Band edge

: 5G WIFI 11AC40

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m dB

1	5143.477	7.56	34.32	42.80	59.84	58.92	74.00	-15.08 peak
2	5149.980	7.57	34.32	42.79	60.98	60.08	74.00	-13.92 peak
3 *	5190.000	7.64	34.36	42.77	100.91	100.14	68.20	31.94 peak



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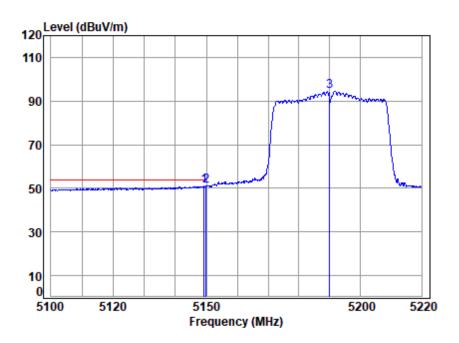
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5190 Band edge : 5G WIFI 11AC40

> Cable Ant Preamp Limit 0ver Read Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 5149.222 7.57 34.32 42.79 51.78 50.88 54.00 -3.12 Average 5149.980 7.57 34.32 42.79 52.12 51.22 54.00 -2.78 Average 95.40 94.63 ----- Average 5190.000 7.64 34.36 42.77



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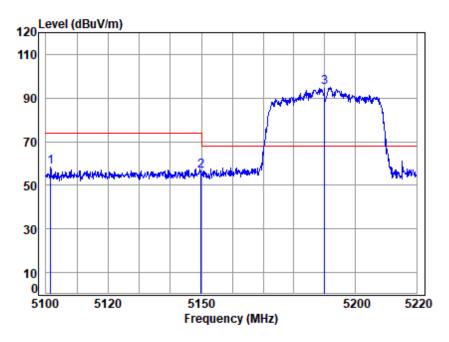
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5190 Band edge : 5G WIFI 11AC40

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5101.542	7.49	34.28	42.83	59.50	58.44	74.00	-15.56	peak
2		5149.980	7.57	34.32	42.79	57.44	56.54	74.00	-17.46	peak
3	*	5190.000	7.64	34.36	42.77	95.45	94.68	68.20	26.48	peak



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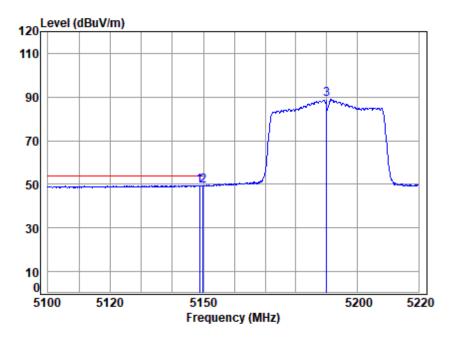
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5190 Band edge : 5G WIFI 11AC40

Cable Ant Preamp Limit Read 0ver Loss Factor Factor Level Level Line Limit Remark Freq

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5148.743 5149.980 5190.000	7.57	34.32	42.79	50.33	49.43	54.00	-4.57	Average



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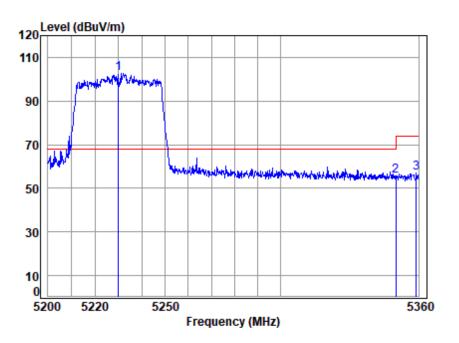
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Mode:e; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5230.000 5350.020 5359.025	7.92	34.48	42.66	55.80	55.54	74.00	-18.46	peak



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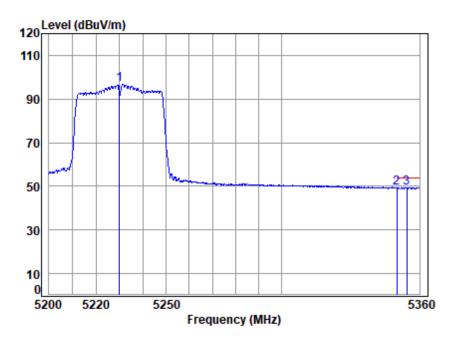
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Mode:e; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5230 Band edge : 5G WIFI 11AC40

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 5230.000 7.72 34.39 42.74 97.48 96.85 ----- Average 5350.020 7.92 34.48 42.66 49.39 49.13 -4.87 Average 54.00 5354.480 7.93 34.49 42.65 49.69 49.46 54.00 -4.54 Average



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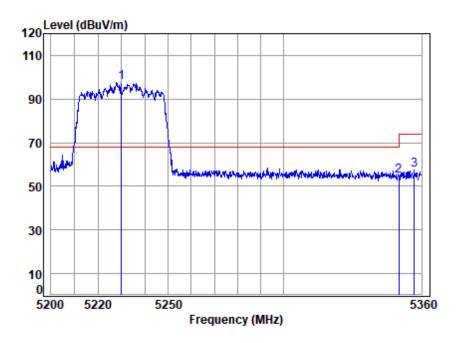
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5230 Band edge

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	* 5230.000	7.72	34.39	42.74	98.26	97.63	68.20	29.43	peak
2	5350.020	7.92	34.48	42.66	55.01	54.75	74.00	-19.25	peak
3	5356.915	7.94	34.49	42.65	57.50	57.28	74.00	-16.72	peak



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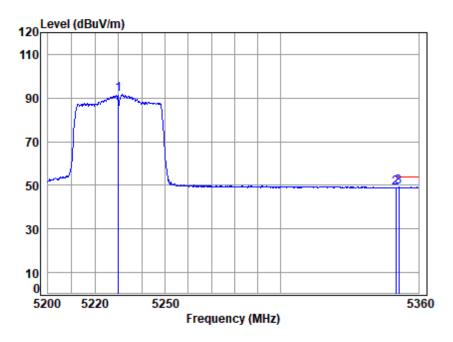
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5230 Band edge

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.72	34.39	42.74	92.15	91.52			Average
2	5350.020	7.92	34.48	42.66	49.29	49.03	54.00	-4.97	Average
3	5351.398	7.93	34.49	42.65	49.49	49.26	54.00	-4.74	Average



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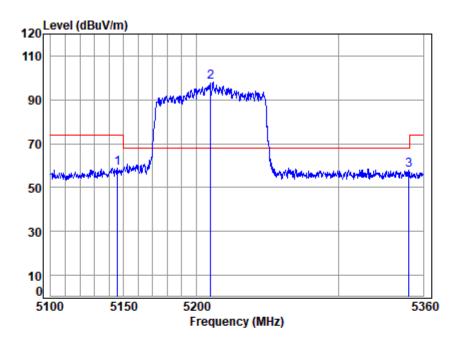
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Report No.: SZEM200400229905

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



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5210 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5145.595 2 * 5210.000								•
3 5349.882								•



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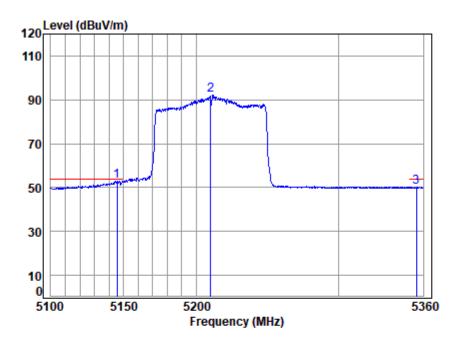
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Mode:e; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.339	7.56	34.32	42.80	53.76	52.84	54.00	-1.16	Average
2	5210.000	7.68	34.37	42.75	92.72	92.02			Average
3	5355.205	7.93	34.49	42.65	50.36	50.13	54.00	-3.87	Average



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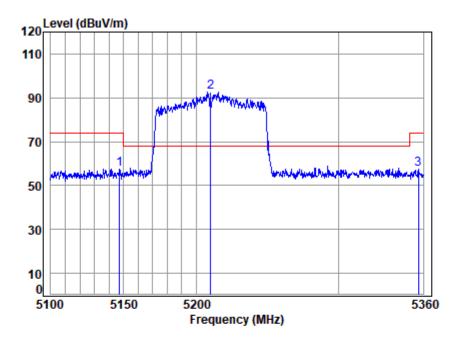
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5210 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5147.130 2 * 5210.000 3 5356.537	7.68	34.37	42.75	93.12	92.42	68.20	24.22	peak



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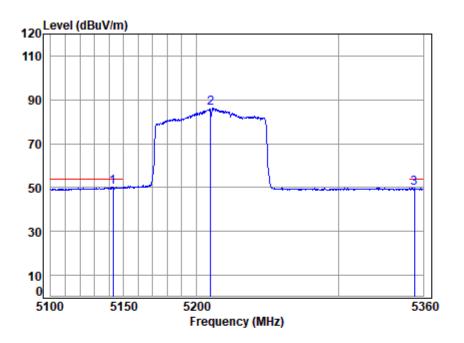
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Mode:e; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5142.526	7.56	34.32	42.80	51.03	50.11	54.00	-3.89	Average
2	5210.000	7.68	34.37	42.75	87.12	86.42			Average
3	5353.607	7.93	34.49	42.65	49.92	49.69	54.00	-4.31	Average



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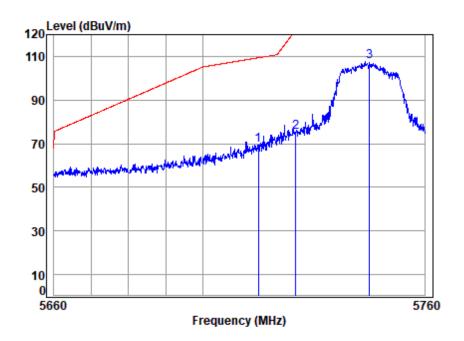
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Mode:f; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5745 Band edge : 5G WIFI 11A

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 5715.000 8.22 34.82 42.42 68.88 69.50 109.40 -39.90 peak 5725.000 8.22 34.83 42.41 74.65 75.29 122.20 -46.91 peak 5745.000 8.22 34.85 42.40 106.85 107.52 ----- peak



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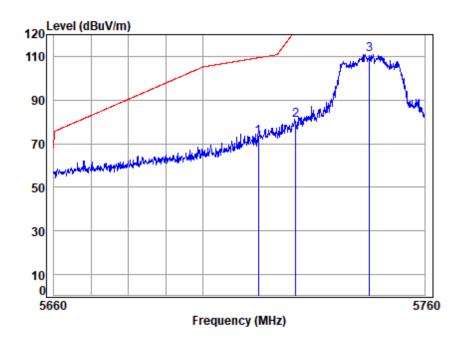
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Mode:f; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5745 Band edge

: 5G WIFI 11A

Freq					Level			Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5715.000 5725.000 5745.000	8.22	34.83	42.41	80.34	80.98	122.20	-41.22	peak



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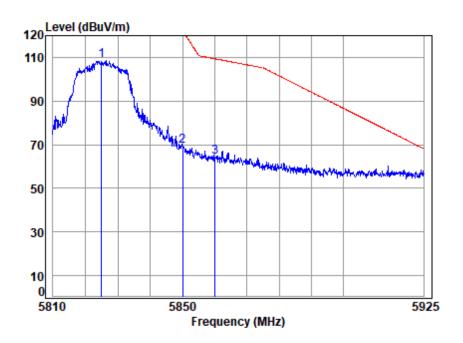
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Mode:f; Polarization:Horizontal; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5825 Band edge

: 5G WIFI 11A

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3	5825.000 5850.000 5860.000	8.24	34.95	42.33	68.37	69.23	122.20	-52.97	peak



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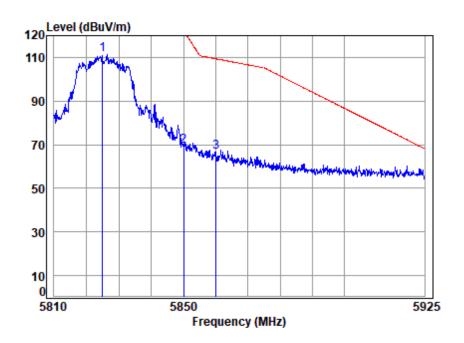
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Mode:f; Polarization:Vertical; Modulation:802.11a; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5825 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.23	34.93	42.35	110.70	111.51	125.20	-13.69	peak
2	5850.000	8.24	34.95	42.33	68.32	69.18	122.20	-53.02	peak
3	5860.000	8.24	34.96	42.33	65.84	66.71	109.40	-42.69	peak



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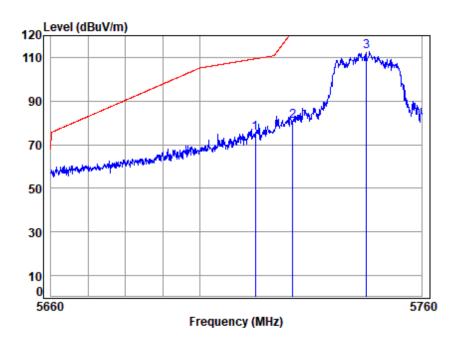
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Mode:f; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5745 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read 0ver Loss Factor Factor Level Level Line Limit Remark Freq

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	74.59	75.21	109.40	-34.19	peak
2	5725.000	8.22	34.83	42.41	80.33	80.97	122.20	-41.23	peak
3	5745.000	8.22	34.85	42.40	112.06	112.73			peak



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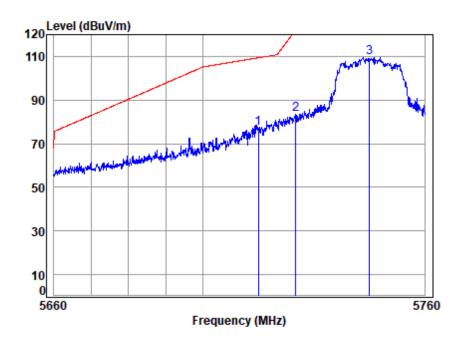
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Mode:f; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5745 Band edge : 5G WIFI 11N20

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 5715.000 8.22 34.82 42.42 76.69 77.31 109.40 -32.09 peak 5725.000 8.22 34.83 42.41 82.93 83.57 122.20 -38.63 peak 5745.000 8.22 34.85 42.40 108.86 109.53 ----- peak



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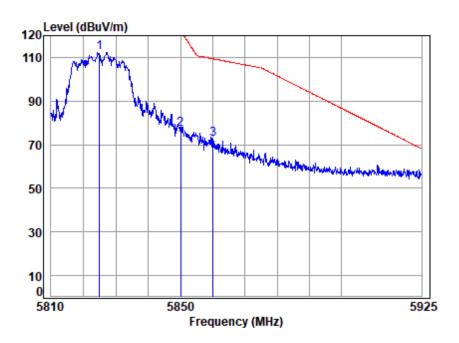
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Mode:f; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

5860.000

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5825 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 5825.000 8.23 34.93 42.35 111.52 112.33 ----- peak 5850.000 8.24 34.95 42.33 76.26 77.12 122.20 -45.08 peak

8.24 34.96 42.33 71.76 72.63 109.40 -36.77 peak



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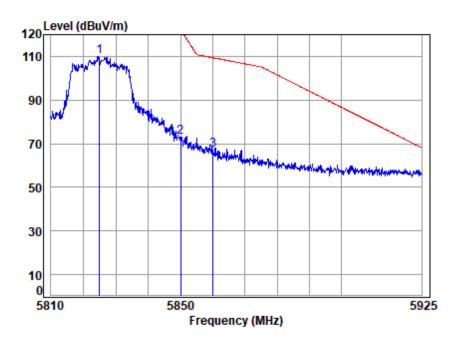
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Mode:f; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

5860.000

Job No : 02299CR/02300CR Mode : 5825 Band edge : 5G WIFI 11N20

Remark					Preamp Factor			Freq
					——dB			
		-	-					
peak	-15.26	125.20	109.94	109.13	42.35	34.93	8.23	5825.000
peak	-49.08	122.20	73.12	72.26	42.33	34.95	8.24	5850.000

8.24 34.96 42.33 66.27 67.14 109.40 -42.26 peak



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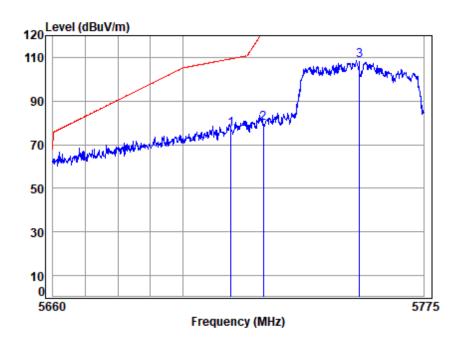
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Mode:f; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5755 Band edge

: 5G WIFI 11N40

	. 50	MATI T	111170						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.22	34.82	42.42	76.32	76.94	109.40	-32.46	peak
2	5725.000	8.22	34.83	42.41	79.36	80.00	122.20	-42.20	peak
3	5755.000	8.22	34.86	42.39	108.01	108.70			peak



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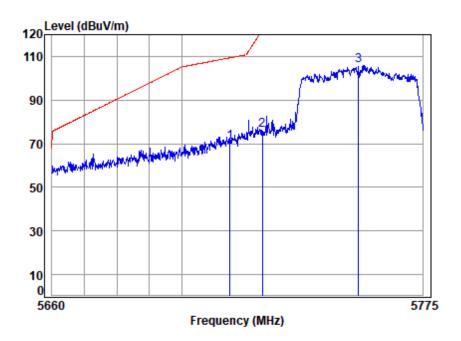
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Report No.: SZEM200400229905

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



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5755 Band edge : 5G WIFI 11N40

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 8.22 34.82 42.42 70.19 70.81 109.40 -38.59 peak 5715.000 5725.000 8.22 34.83 42.41 75.37 76.01 122.20 -46.19 peak 5755.000 8.22 34.86 42.39 105.01 105.70 ----- peak



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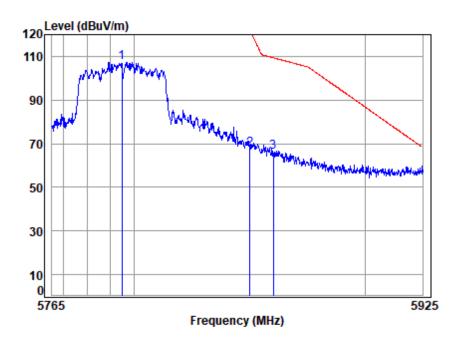
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Mode:f; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5795 Band edge

: 5G WIFI 11N40

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5795.000 5850.000 5860.000	8.24	34.95	42.33	66.70	67.56	122.20	-54.64	peak



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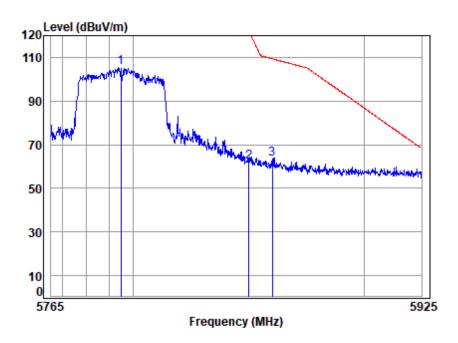
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Mode:f; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

5860.000

Job No : 02299CR/02300CR Mode : 5795 Band edge 5G WTFT 11N40

	AATI T	TINTO						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5795.000	8.23	34.90	42.37	104.77	105.53			peak
5850.000	8.24	34.95	42.33	61.12	61.98	122.20	-60.22	peak

8.24 34.96 42.33 62.64 63.51 109.40 -45.89 peak



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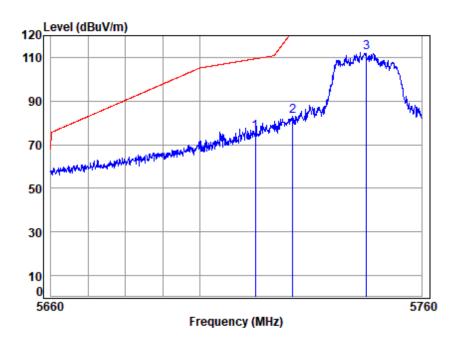
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber

5745.000

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5745 Band edge

: 5G WIFI 11AC20

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 8.22 34.82 42.42 75.33 75.95 109.40 -33.45 peak 5715.000 5725.000 8.22 34.83 42.41 82.27 82.91 122.20 -39.29 peak

8.22 34.85 42.40 111.44 112.11 ----- peak



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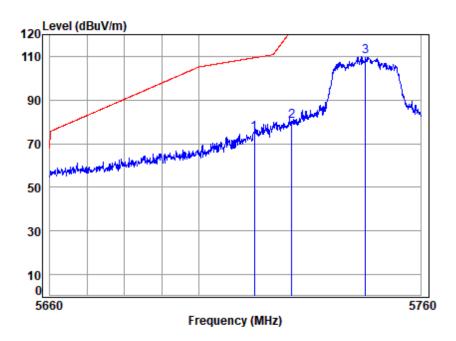
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5745 Band edge : 5G WIFI 11AC20

Cable Ant Preamp Limit Read 0ver Loss Factor Factor Level Level Line Limit Remark Freq

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5715.000 5725.000 5745.000	8.22	34.83	42.41	79.48	80.12	122.20	-42.08	peak



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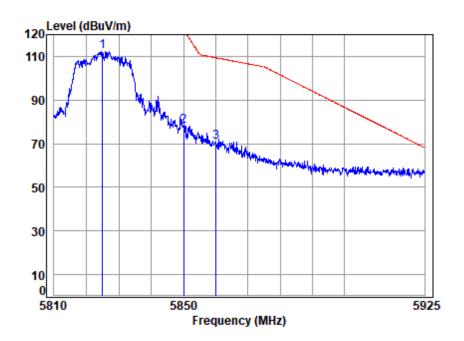
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5825 Band edge : 5G WIFI 11AC20

> Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m 8.23 34.93 42.35 111.65 112.46 ----- peak 5825.000 5850.000 8.24 34.95 42.33 77.14 78.00 122.20 -44.20 peak 5860.000 8.24 34.96 42.33 69.89 70.76 109.40 -38.64 peak



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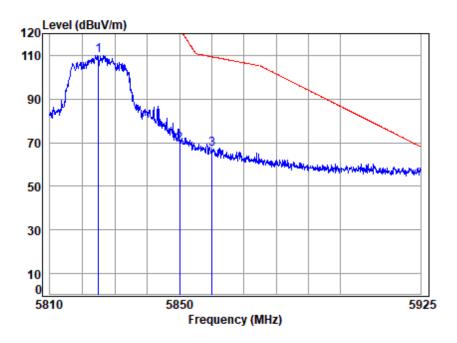
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5825 Band edge

: 5G WIFI 11AC20

	. 50	MATI T	TIMOZO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5825.000	8.23	34.93	42.35	109.27	110.08			peak	
2	5850.000	8.24	34.95	42.33	68.64	69.50	122.20	-52.70	peak	
3	5860.000	8.24	34.96	42.33	66.27	67.14	109.40	-42.26	peak	



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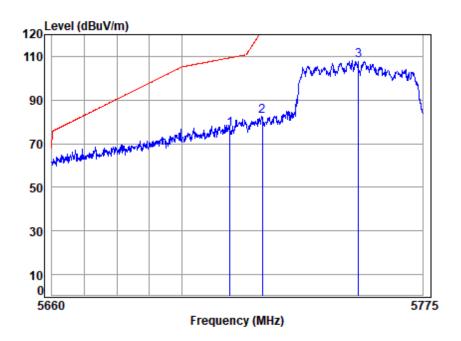
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5755 Band edge

: 5G WIFI 11AC40

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5715.000 5725.000 5755.000	8.22	34.83	42.41	81.83	82.47	122.20	-39.73	peak



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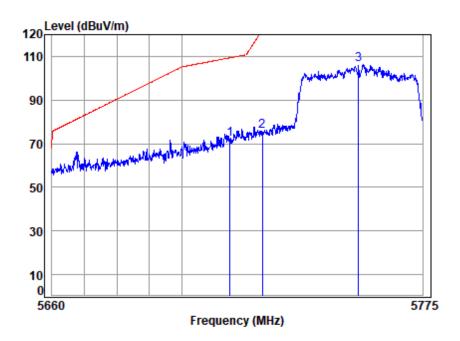
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5755 Band edge : 5G WIFI 11AC40

- Fran						Limit		Damank	
- Freq	LOSS	-actor	-actor	revei	revei	Line		Kemark	_
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5715.000	8.22	34.82	42.42	71.33	71.95	109.40	-37.45	peak	
5725.000	8.22	34.83	42.41	74.93	75.57	122.20	-46.63	peak	
5755 000	8 22	3/1 86	12 39	105 /0	106 09			neak	



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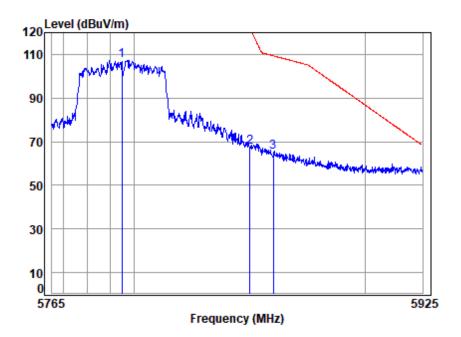
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR Mode : 5795 Band edge

: 5G WIFI 11AC40

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	5795.000	8.23	34.90	42.37	106.58	107.34			peak
2	5850.000	8.24	34.95	42.33	66.84	67.70	122.20	-54.50	peak
3	5860.000	8.24	34.96	42.33	64.50	65.37	109.40	-44.03	peak



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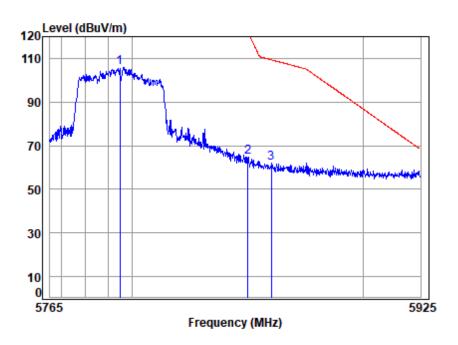
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 02299CR/02300CR Mode

: 5795 Band edge : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5795.000	8.23	34.90	42.37	105.01	105.77			peak	
2	5850.000	8.24	34.95	42.33	63.95	64.81	122.20	-57.39	peak	
3	5860.000	8.24	34.96	42.33	61.39	62.26	109.40	-47.14	peak	



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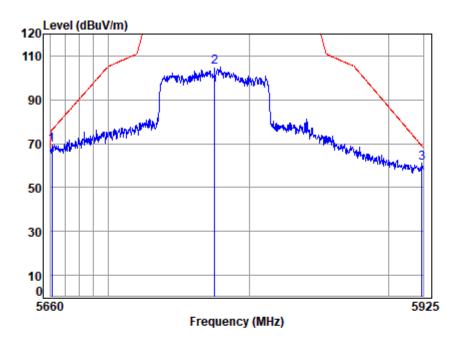
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Mode:f; Polarization:Horizontal; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 02299CR/02300CR : 5775 Band edge Mode

5G WIFT 11AC80

		Cable							
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5661.036	8.21	34.77	42.45	68.70	69.23	76.37	-7.14	Peak
2	5775.000	8.22	34.88	42.38	104.18	104.90			peak
3	5923.916	8.25	35.03	42.29	60.24	61.23	69.00	-7.77	Peak



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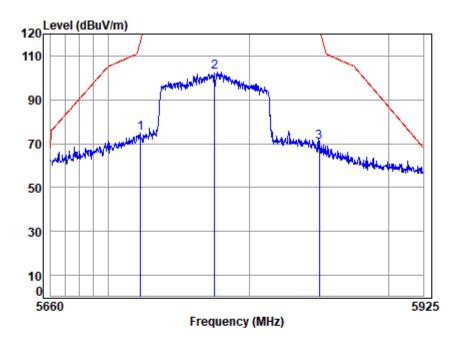
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Mode:f; Polarization:Vertical; Modulation:802.11ac; bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02299CR/02300CR Mode : 5775 Band edge

5G WTFT 11AC80

	. 50	AATI T	TIACOU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5722.760	8.22	34.83	42.41	73.98	74.62	117.09	-42.47	peak
2	5775.000	8.22	34.88	42.38	102.12	102.84			peak
3	5849 841	8 24	34 95	42 33	69 78	70 64	125 20	-54 56	neak



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7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation

frequency over a temperature variation of 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

N/A

7.9.2 Test Setup Diagram

N/A

7.9.3 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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Photographs 8

8.1 Test Setup

Refer to Setup Photos

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



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Appendix 9

9.1 Appendix 15.407

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	1.365	1.407	97.01	0.13
	5200	SISO	1	1.365	1.405	97.15	0.13
	5240	SISO	1	1.365	1.405	97.15	0.13
	5745	SISO	1	1.365	1.405	97.15	0.13
	5785	SISO	1	1.364	1.405	97.08	0.13
	5825	SISO	1	1.365	1.405	97.15	0.13
802.11n(HT20)	5180	SISO	1	1.308	1.350	96.89	0.14
	5200	SISO	1	1.307	1.349	96.89	0.14
	5240	SISO	1	1.307	1.349	96.89	0.14
	5745	SISO	1	1.308	1.350	96.89	0.14
	5785	SISO	1	1.307	1.349	96.89	0.14
	5825	SISO	1	1.307	1.349	96.89	0.14
802.11n(HT40)	5190	SISO	1	0.618	0.658	93.92	0.27
	5230	SISO	1	0.618	0.658	93.92	0.27
	5755	SISO	1	0.618	0.657	94.06	0.27
	5795	SISO	1	0.618	0.658	93.92	0.27
802.11ac(VHT20)	5180	SISO	1	1.316	1.358	96.91	0.14
	5200	SISO	1	1.315	1.357	96.90	0.14
	5240	SISO	1	1.316	1.358	96.91	0.14
	5745	SISO	1	1.316	1.358	96.91	0.14
	5785	SISO	1	1.316	1.358	96.91	0.14
	5825	SISO	1	1.314	1.356	96.90	0.14
802.11ac(VHT40)	5190	SISO	1	0.625	0.665	93.98	0.27
	5230	SISO	1	0.625	0.664	94.13	0.26
	5755	SISO	1	0.626	0.666	93.99	0.27
	5795	SISO	1	0.626	0.666	93.99	0.27
802.11ac(VHT80)	5210	SISO	1	0.324	0.366	88.52	0.53
	5775	SISO	1	0.324	0.366	88.52	0.53



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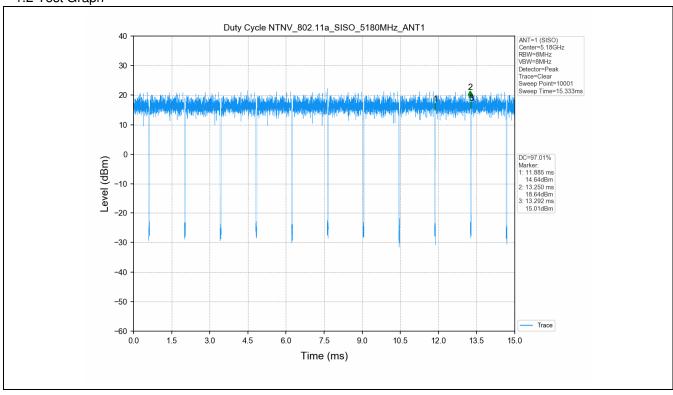
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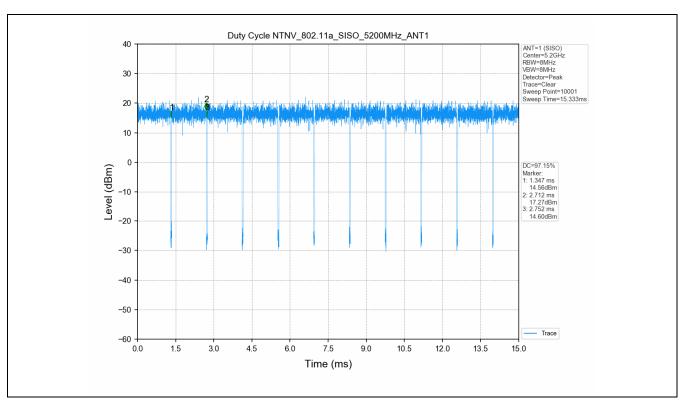


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1.2 Test Graph







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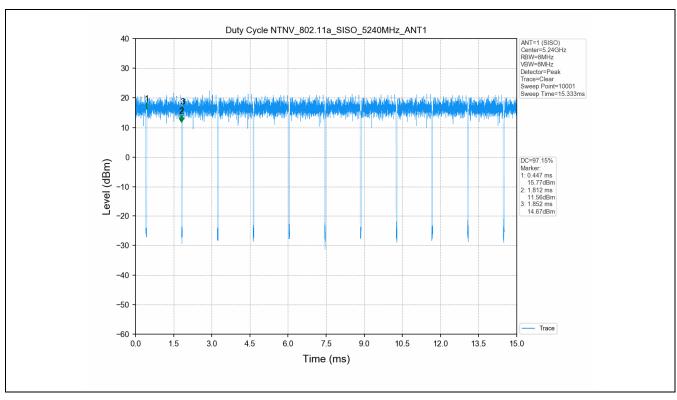
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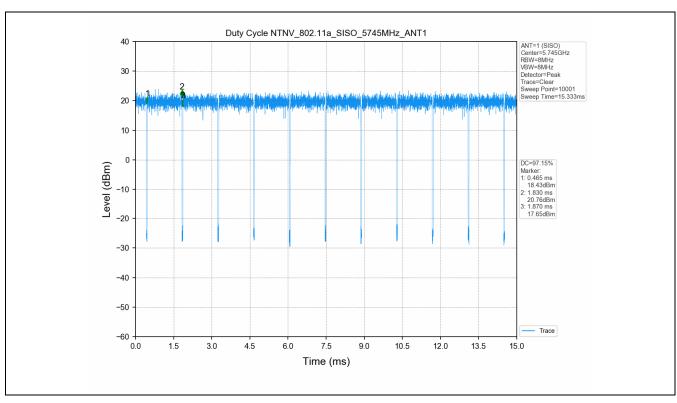
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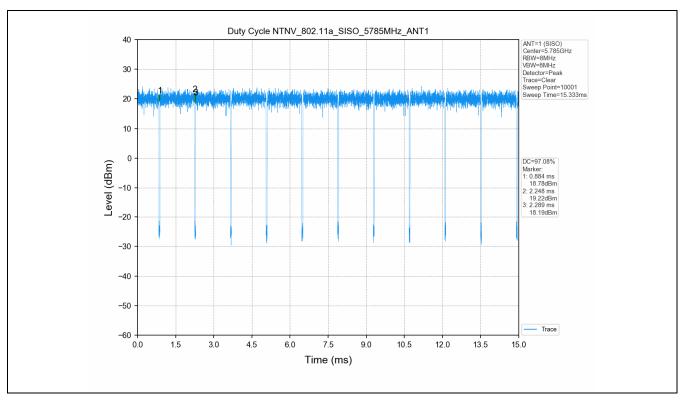
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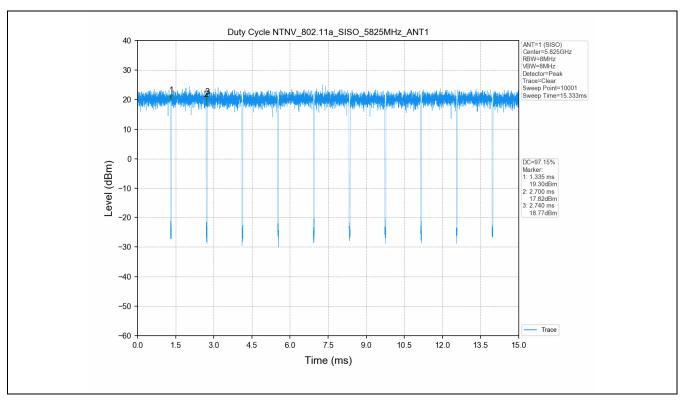
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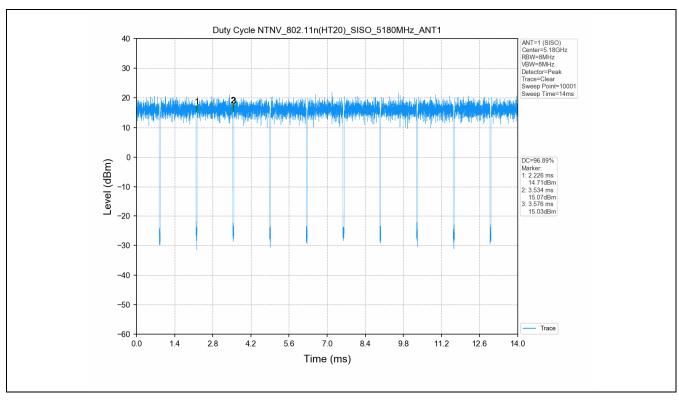
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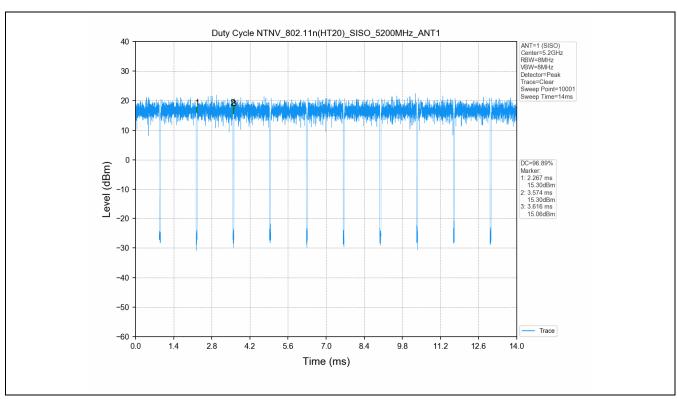
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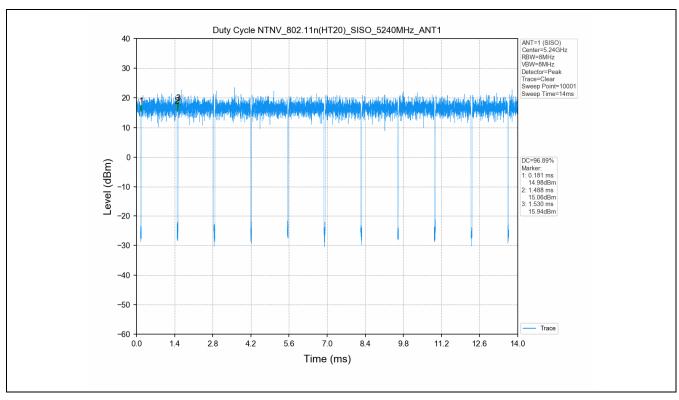
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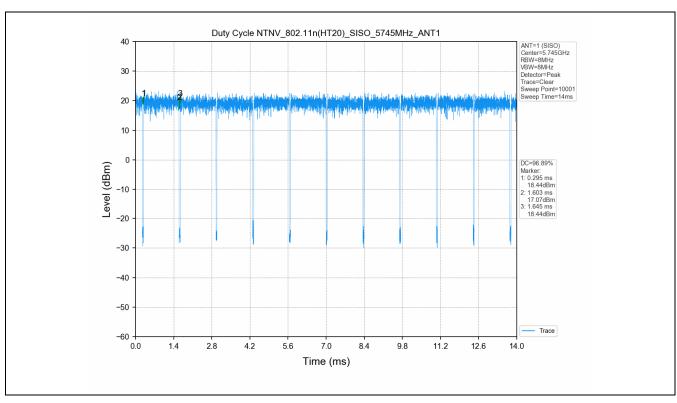
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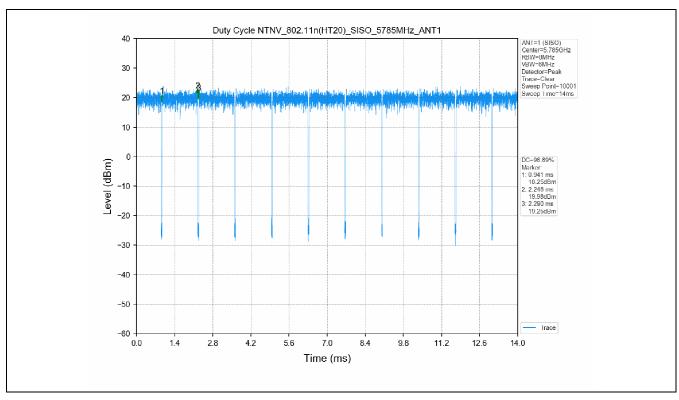
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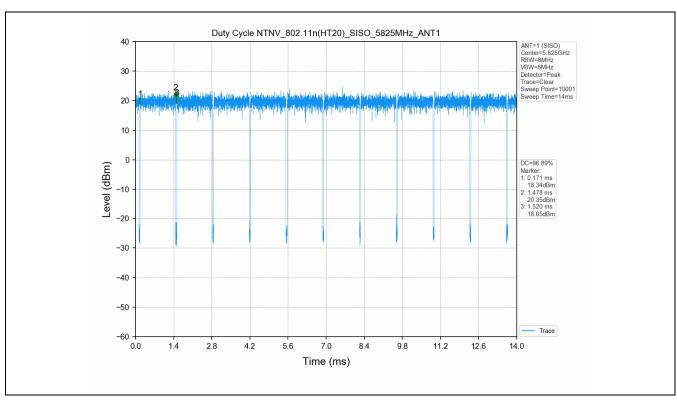
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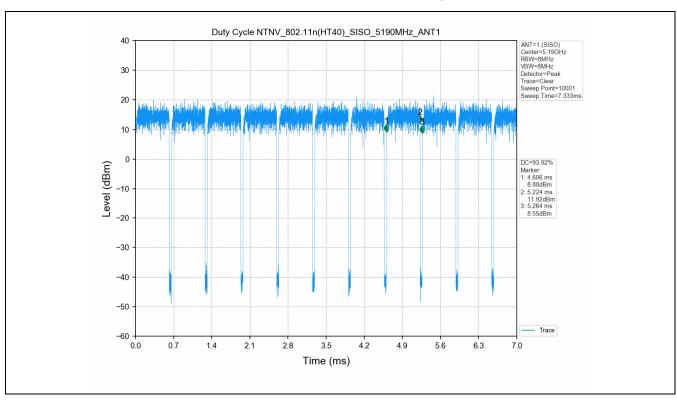
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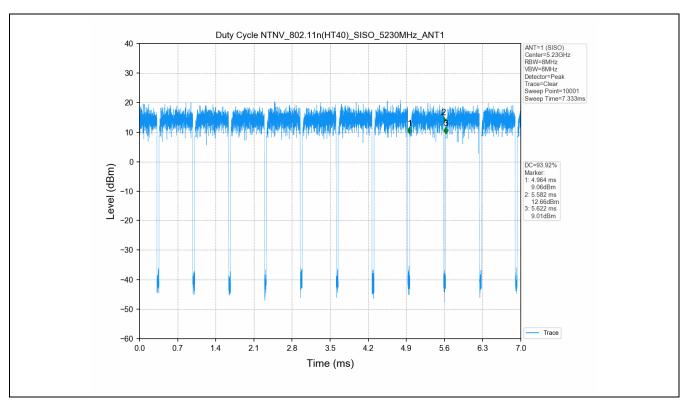
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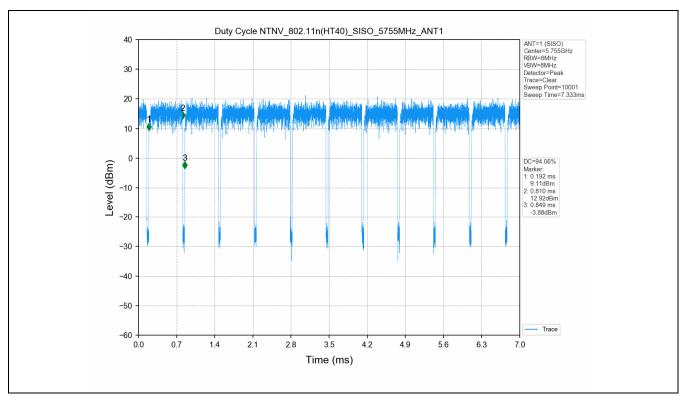
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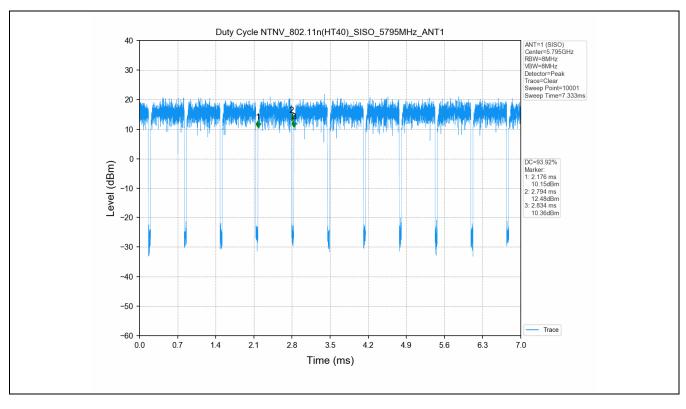
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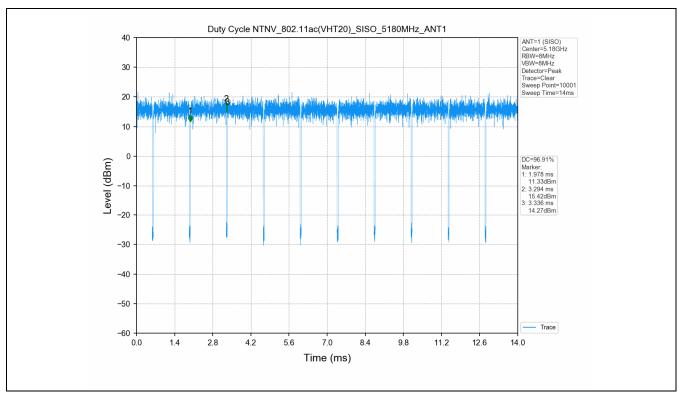
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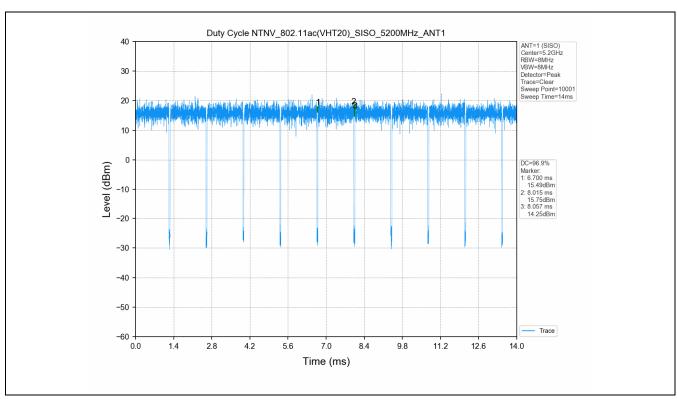
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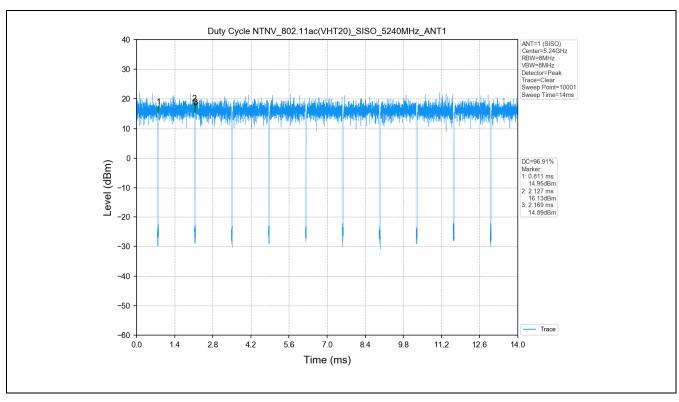
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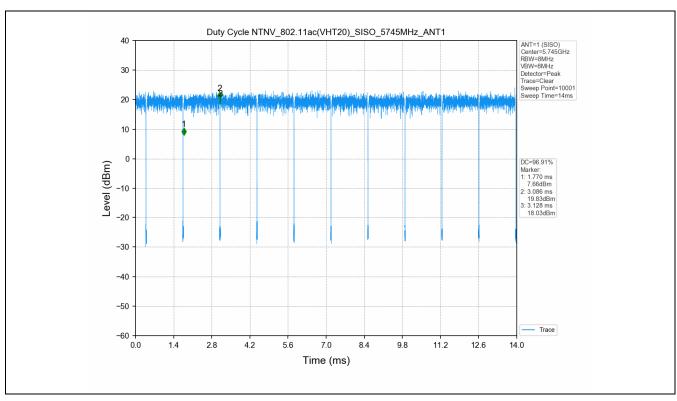
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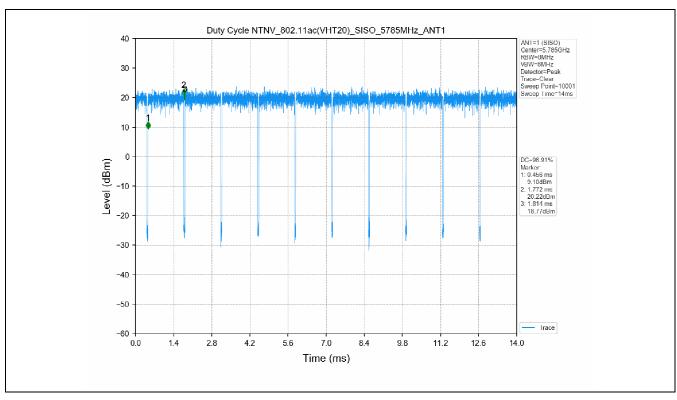
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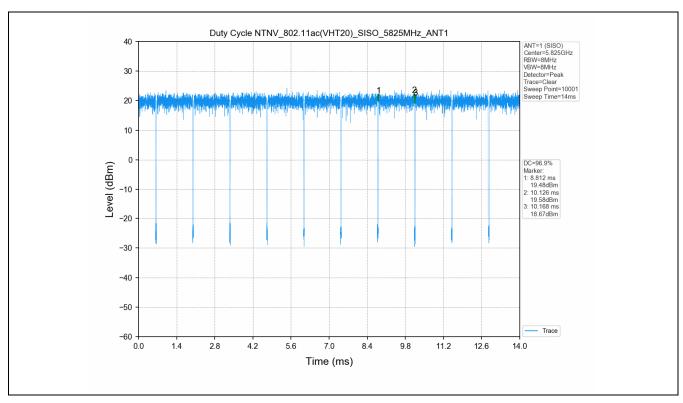
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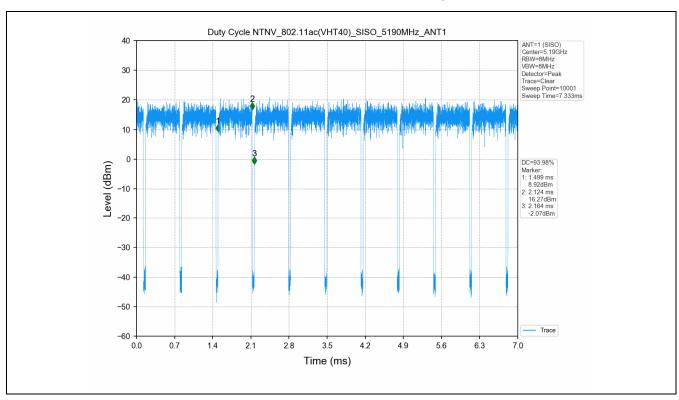
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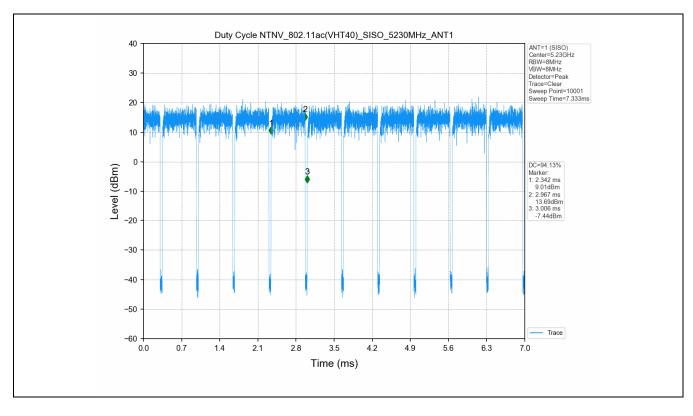
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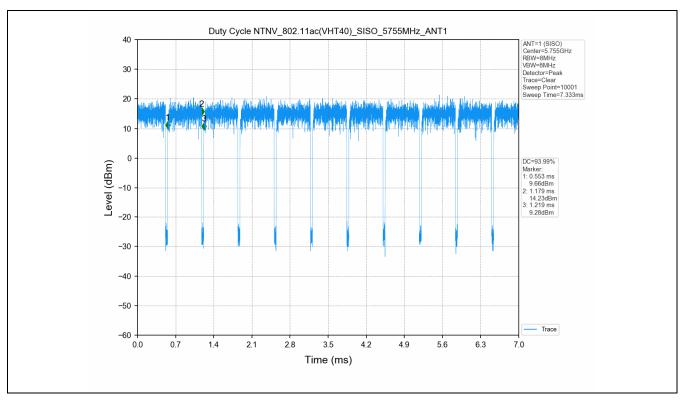
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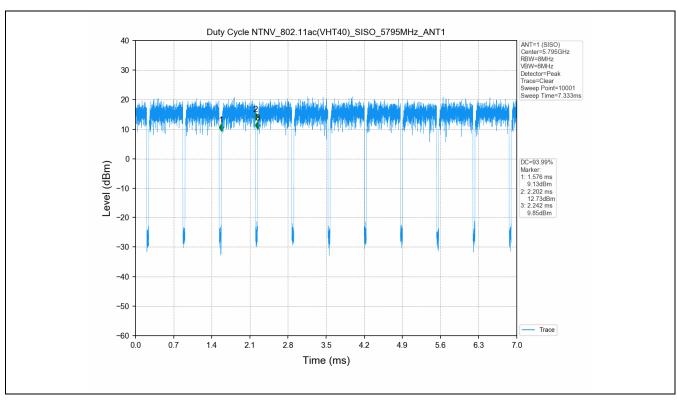
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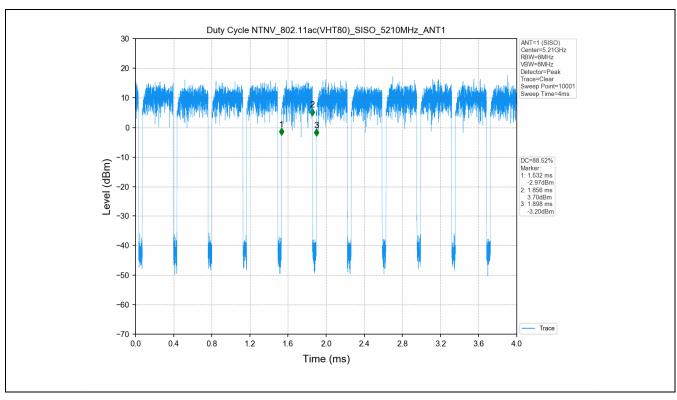
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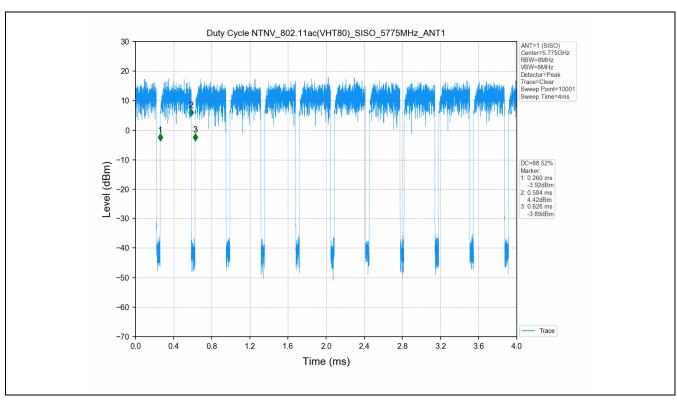
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