

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200494508

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TEST REPORT

Application No.: SZCR2412004945WM

Applicant: vivo Mobile Communication Co., Ltd.

Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

Manufacturer: vivo Mobile Communication Co., Ltd.

Address of Manufacturer: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Mobile phone

Model No.: V2440
Trade Mark: vivo

FCC ID: 2AUCY-V2440

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

Date of Receipt: 2024-12-30

Date of Test: 2025-01-09 to 2025-02-06

Date of Issue: 2025-02-07

Test Result: Pass*

Keny Xu EMC Laboratory Manager

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		2025-02-07		Original	

Authorized for issue by:		
	Sherlock Fans	
	Sherlock Fang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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2 **Test Summary**

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

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	N/A
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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General Information

4.1 Details of E.U.T.

EUT Description:	Mobile phor	ne		
Model No.:	V2440			
Trade Mark:	vivo			
Hardware Version:	MP_0.1			
Software Version:	PD2447EF_EX_A_15.0.2.10.W30			
Power Supply:	DC 3.91V from internal rechargeable battery which can be charged by AC/DC adapter			
	802.11a:	20 MHz channel bandwidth		
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth		
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth		
	5150MHz to	5250MHz		
Operation Fraguency	5250MHz to	5350MHz		
Operation Frequency:	5470MHz to	5725MHz		
	5725MHz to 5850MHz			
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20)		
Channel Spacing:	40MHz:	Hz: 802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT80)		
Antenna Type:	PIFA Anten	IFA Antenna		
	5150MHz to 5250MHz: 0.94dBi(Ant22);			
	5250MHz to 5350MHz: -0.24dBi(Ant22);			
	5470MHz to	o 5725MHz: 0.94dBi(Ant22);		
Antenna Gain:	5725MHz to 5850MHz:0.47dBi(Ant22);			
	Note:			
	The antenna gain are derived from the gain information report provided by the manufacturer.			
	⊠ SISO	802.11a/n/ac		
		CDD: 802.11a/n/ac: Tx & Rx		
Smart System:		STBC: 802.11n/ac: Tx & Rx		
		TXBF: 802.11n/ac: Tx & Rx		
	☐ Diversity	802.11a: Tx & Rx		
TPC Function:	☐Support,	⊠Not Support		



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DFS Function:	□Master			
DF3 Function.	☐Slave with radar detection ☐Slav		ve without radar detection	
RF Cable:	4900MHz ~ 5250MHz(1.6dB)		5250MHz ~ 5350MHz(1.7dB)	
RF Cable.	5470MHz ~ 5725MHz(1.8dB)		5725MHz ~ 5850MHz (2dB)	
Remark:				
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				

4.2 Environment Parameter

Environment Parameter		1020 mbar Selected Values During Tests		
Relative Humidity		35.3-50.8 % RH Ambient		
Value		Temperatu	ıre(°C)	Voltage(V)
NTNV		20.7~24.5		3.91
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	ltage	HV:High Extren	ne Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ter		mperature	HT:High Extren	ne Test Temperature

4.3 Description of Support Units

Description	Manufacturer	Model No.	FCC ID
Router	NETGEAR	R7800	PY315100319



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4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Peak Power spectrum density	± 2.84dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.5 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, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

4.6 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.

VCCI (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

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.

4.7 Deviation from Standards

None

Abnormalities from Standard Conditions 4.8

None



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Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Emissions wh	Radiated Emissions which fall in the restricted bands				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23



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Channel Move Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A
Measurement Software	Agilent	ISMonitor10	N/A	N/A	N/A
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2024-03-27	2025-03-26
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is a PIFA Antenna, and the connection port is integrated inside the product, and the antenna cannot be replaced.

5150MHz to 5250MHz: 0.94dBi(Ant22); * 5250MHz to 5350MHz: -0.24dBi(Ant22);* 5470MHz to 5725MHz: 0.94dBi(Ant22);* 5725MHz to 5850MHz:0.47dBi(Ant22); *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard 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 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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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) Test Requirement

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

Limit:

Everyones of emission/MU=)	Conducted	limit(dB μ V)	
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.			

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

7.1.2 Test mode Description				
Pre-scan / Final test	Mode Code	Description		
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.		



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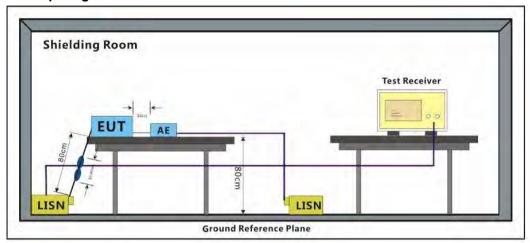
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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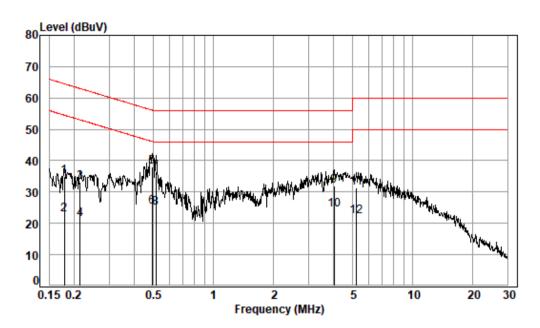


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Test Mode: 14: Line: Live line



: Shielding Room

Condition: Line Job No. : 04945WM

Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1787	0.06	10.15	24.66	34.87	64.55	-29.68	QP
2	0.1787	0.06	10.15	12.51	22.72	54.55	-31.83	Average
3	0.2151	0.06	10.07	23.16	33.29	63.01	-29.72	QP
4	0.2151	0.06	10.07	11.21	21.34	53.01	-31.67	Average
5 *	0.4915	0.08	9.55	28.46	38.09	56.14	-18.05	QP
6 *	0.4915	0.08	9.55	15.68	25.31	46.14	-20.83	Average
7	0.5155	0.08	9.55	26.86	36.49	56.00	-19.51	QP
8	0.5155	0.08	9.55	15.19	24.82	46.00	-21.18	Average
9	4.0275	0.12	9.66	22.24	32.02	56.00	-23.98	QP
10	4.0275	0.12	9.66	14.55	24.33	46.00	-21.67	Average
11	5.2213	0.12	9.66	21.48	31.26	60.00	-28.74	QP
12	5.2213	0.12	9.66	12.34	22.12	50.00	-27.88	Average



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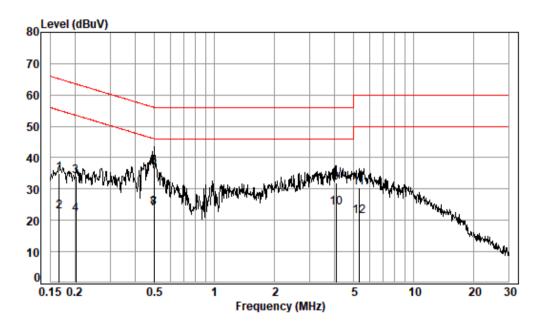


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Test Mode: 14: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04945WM

Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1668	0.06	10.12	24.81	34.99	65.12	-30.13	QP
2	0.1668	0.06	10.12	12.78	22.96	55.12	-32.16	Average
3	0.2018	0.06	10.07	24.08	34.21	63.54	-29.33	QP
4	0.2018	0.06	10.07	11.85	21.98	53.54	-31.56	Average
5 *	0.4994	0.08	9.71	27.37	37.16	56.01	-18.85	QP
6	0.4994	0.08	9.71	27.13	36.92	56.01	-19.09	QP
7	0.4994	0.08	9.71	13.80	23.59	46.01	-22.42	Average
8 *	0.4994	0.08	9.71	14.21	24.00	46.01	-22.01	Average
9	4.0704	0.12	9.55	22.27	31.94	56.00	-24.06	QP
10	4.0704	0.12	9.55	14.24	23.91	46.00	-22.09	Average
11	5.3050	0.13	9.58	20.64	30.35	60.00	-29.65	QP
12	5.3050	0.13	9.58	11.55	21.26	50.00	-28.74	Average



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7.2 Maximum Conducted output power

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

Frequen	cy band(MHz)	Limit				
F1F0	E2E0	≤1W(30dBm) for master device				
5150-	5250	≤250mW(24dBm) for client device				
5250-	5350	≤250mW(24dBm) or 11dBm+10logB*				
5470-	5725	≤250mW(24dBm) or 11dBm+10logB*				
5725-	5850	≤1W(30dBm)				
Remark:	* Where B is the	e 26dB emission bandwidth in MHz.				
		conducted output power must be measured over any interval ransmission using instrumentation calibrated in terms of an voltage.				

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Atmospheric Pressure: 1020 mbar Humidity: 35.3 % RH

7.2.2 Tost Mode Description

7.2.2 Test mode Description								
Pre-scan / Final test	Mode Code	Description						
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.						
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.						
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.						
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.						



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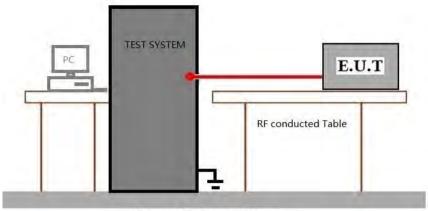
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.3 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.5.2 Test Mode Description							
Pre-scan / Final test	Mode Code	Description					
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					
Pre-scan	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					
Pre-scan	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					
Pre-scan	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.					



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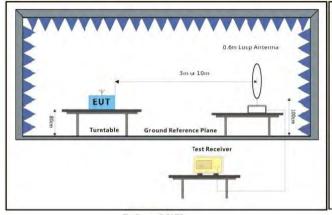


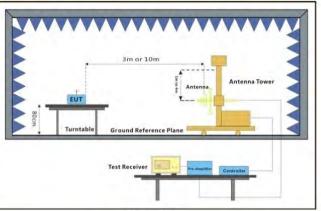
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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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7.3.4 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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. 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 30MHz, the disturbance 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



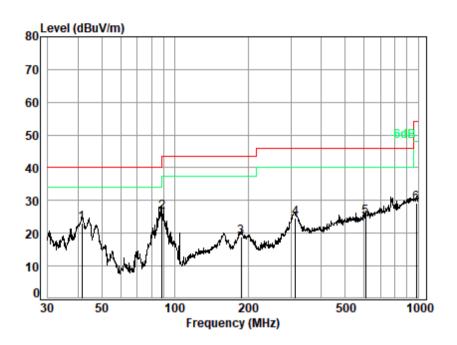


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Test Mode: 14; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04945WM

Test Mode: 14

			Ant Cable Preamp Freq Factor Loss Factor		Read		Limit Over			
					Level	Level Level Line L		Limit	Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	41.422	15.69	0.79	27.76	34.45	23.17	40.00	-16.83	QP	
2	88.652	11.57	1.15	27.62	41.31	26.41	43.50	-17.09	QP	
3	187.096	14.30	1.71	27.22	30.14	18.93	43.50	-24.57	QP	
4	313.276	18.40	2.26	26.80	30.67	24.53	46.00	-21.47	QP	
5	607.787	24.61	3.27	27.95	24.89	24.82	46.00	-21.18	QP	
6	982.620	28.02	4.34	26.17	23.16	29.35	54.00	-24.65	OP	



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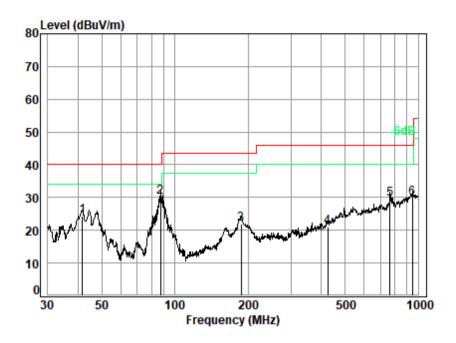


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Test Mode: 14; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04945WM

Test Mode: 14

	Ant		Cable Preamp		Read		Limit Over			
	Freq Factor		Loss Factor		Level	Level	Level Line		Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	41.713	15.55	0.80	27.76	35.72	24.31	40.00	-15.69	QP	
2 q	87.112	11.33	1.14	27.63	45.34	30.18	40.00	-9.82	QP	
3	187.096	14.30	1.71	27.22	33.18	21.97	43.50	-21.53	QP	
4	425.028	20.73	2.67	27.26	24.98	21.12	46.00	-24.88	QP	
5	766.057	26.59	3.76	27.56	26.75	29.54	46.00	-16.46	QP	
6	945.440	28.26	4.24	26.44	23.89	29.95	46.00	-16.05	OP	



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7.4 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.6

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		

- *(1) 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.
- (2) 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.
- (3) 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.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

24.5 °C Temperature: Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar



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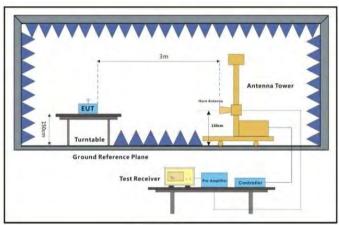
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7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
- 6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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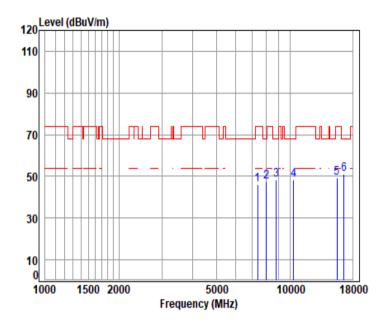


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11a_TX_CH_36_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5180 TX RSE

: 5G Wi-Fi 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	7382.582	11.50	36.73	56.39	54.35	46.19	74.00	-27.81	peak
2	7993.045	11.56	37.79	55.91	54.09	47.53	68.20	-20.67	peak
3	8787.224	12.23	38.50	55.19	52.87	48.41	68.20	-19.79	peak
4	10360.000	13.60	39.00	53.88	49.87	48.59	68.20	-19.61	peak
5	15540.000	17.00	38.56	54.14	48.00	49.42	74.00	-24.58	peak
6	pp16591.430	17.66	39.17	54.18	48.28	50.93	68.20	-17.27	peak



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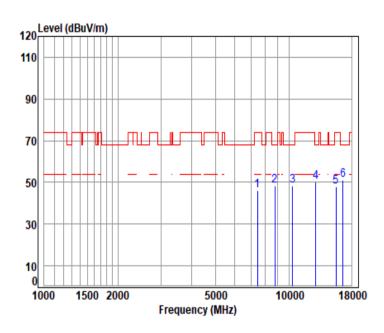


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11a_TX_CH_36_Vertical



Condition: 3m VERTICAL : 04945WM Job No Mode : 5180 TX RSE

> : 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m 7427.838 11.42 36.76 56.36 54.06 45.88 74.00 -28.12 peak 1 2 8742.585 12.16 38.51 55.23 52.87 48.31 68.20 -19.89 peak 10360.000 13.60 39.00 53.88 48.34 68.20 -19.86 peak 3 49.62 12848.480 15.60 40.35 54.39 48.46 50.02 68.20 -18.18 Peak 15540.000 17.00 38.56 54.14 46.57 47.99 74.00 -26.01 peak 6 pp16591.430 17.66 39.17 54.18 48.31 50.96 68.20 -17.24 peak



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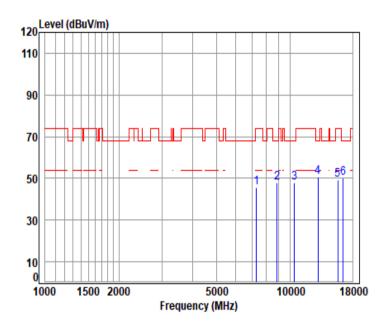


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11a_TX_CH_44_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5220 TX RSE

: 5G Wi-Fi 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	7300.327	11.51	36.70	56.46	54.02	45.77	74.00	-28.23	peak
2	8850.100	12.23	38.50	55.13	52.13	47.73	68.20	-20.47	peak
3	10440.000	13.63	39.04	53.84	49.17	48.00	68.20	-20.20	peak
4	pp13006.480	15.87	40.30	54.50	48.96	50.63	68.20	-17.57	Peak
5	15660.000	17.23	38.56	54.10	47.75	49.44	74.00	-24.56	peak
6	16507.140	17.73	38.92	54.15	47.64	50.14	68.20	-18.06	peak



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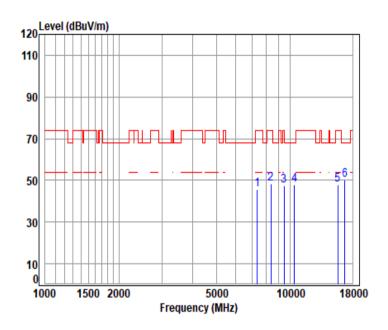


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11a_TX_CH_44_Vertical



Condition: 3m VERTICAL Job No : 04945WM : 5220 TX RSE Mode

: 5G Wi-Fi 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	7345.079	11.51	36.79	56.42	53.67	45.55	74.00	-28.45	peak
2	8350.908	11.69	38.70	55.58	53.36	48.17	74.00	-25.83	peak
3	9455.871	12.45	38.81	54.59	50.95	47.62	74.00	-26.38	peak
4	10440.000	13.63	39.04	53.84	48.87	47.70	68.20	-20.50	peak
5	15660.000	17.23	38.56	54.10	46.12	47.81	74.00	-26.19	peak
6	pp16744.220	17.53	39.49	54.22	47.27	50.07	68.20	-18.13	peak



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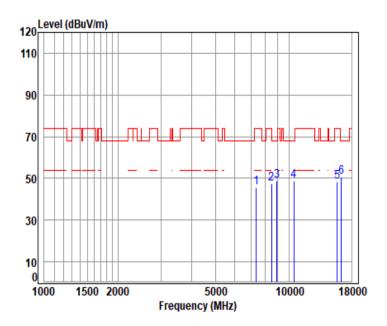


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11a_TX_CH_48_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5240 TX RSE

: 5G Wi-Fi 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	7352.564	11.50	36.79	56.42	53.86	45.73	74.00	-28.27	peak
2	8488.119	12.23	38.32	55.46	52.27	47.36	74.00	-26.64	peak
3	8922.510	12.20	38.55	55.07	53.00	48.68	68.20	-19.52	peak
4	10480.000	13.64	39.08	53.81	49.91	48.82	68.20	-19.38	peak
5	15720.000	17.22	38.58	54.08	46.78	48.50	74.00	-25.50	peak
6	pp16373.180	17.18	38.75	54.11	48.61	50.43	68.20	-17.77	peak



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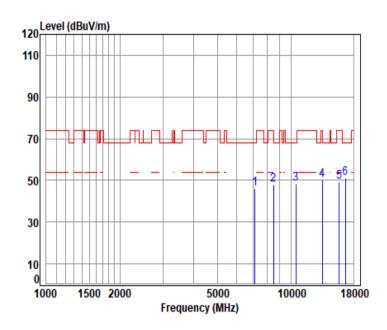


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11a_TX_CH_48_Vertical



Condition: 3m VERTICAL Job No : 04945WM : 5240 TX RSE Mode

: 5G Wi-Fi 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	
7124.029	11.88	36.45	56.60	54.38	46.11	68.20	-22.09	peak
8496.769	12.29	38.31	55.45	52.55	47.70	74.00	-26.30	peak
10480.000	13.64	39.08	53.81	49.42	48.33	68.20	-19.87	peak
13410.060	15.90	40.28	54.46	48.68	50.40	68.20	-17.80	Peak
15720.000	17.22	38.58	54.08	47.43	49.15	74.00	-24.85	peak
nn16659,160	17.61	39.32	54.20	48.24	50.97	68.20	-17.23	neak



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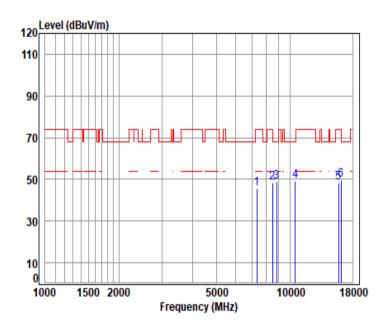


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11a_TX_CH_52_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5260 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7322.668	11.51	36.75	56.44	54.01	45.83	74.00	-28.17	peak
2	8488.119	12.23	38.32	55.46	53.36	48.45	74.00	-25.55	peak
3	8823.098	12.24	38.50	55.16	53.27	48.85	68.20	-19.35	peak
4	pp10520.000	13.63	39.14	53.79	50.27	49.25	68.20	-18.95	peak
5	15780.000	17.08	38.52	54.07	46.93	48.46	74.00	-25.54	peak
6	16174.270	17.17	38.50	54.05	48.07	49.69	74.00	-24.31	peak



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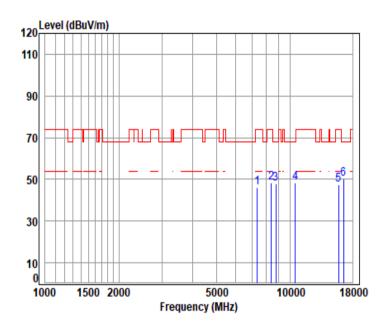


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11a_TX_CH_52_Vertical



Condition: 3m VERTICAL Job No : 04945WM : 5260 TX RSE Mode

: 5G Wi-Fi 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	7345.079	11.51	36.79	56.42	53.98	45.86	74.00	-28.14	peak
2	8385.002	11.65	38.63	55.55	53.47	48.20	74.00	-25.80	peak
3	8751.494	12.17	38.50	55.22	52.66	48.11	68.20	-20.09	peak
4	10520.000	13.63	39.14	53.79	49.42	48.40	68.20	-19.80	peak
5	15780.000	17.08	38.52	54.07	46.13	47.66	74.00	-26.34	peak
6	pp16557.660	17.69	39.07	54.17	47.79	50.38	68.20	-17.82	peak



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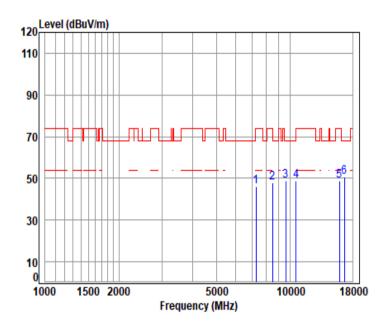


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11a_TX_CH_60_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5300 TX RSE

: 5G Wi-Fi 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	7263.242	11.51	36.63	56.49	54.46	46.11	74.00	-27.89	peak
2	8496.769	12.29	38.31	55.45	52.86	48.01	74.00	-25.99	peak
3	9621.031	12.49	38.76	54.44	51.96	48.77	68.20	-19.43	peak
4	10600.000	13.59	39.30	53.74	49.65	48.80	68.20	-19.40	peak
5	15900.000	17.28	38.70	54.03	46.81	48.76	74.00	-25.24	peak
6	pp16710.150	17.58	39.42	54.21	47.85	50.64	68.20	-17.56	peak



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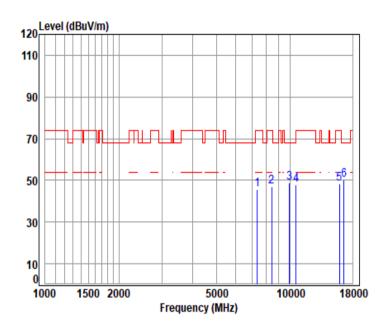


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11a_TX_CH_60_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5300 TX RSE

> : 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 7337.601 11.51 36.78 56.43 53.62 45.48 74.00 -28.52 peak 1 2 8427.813 11.82 38.49 55.51 52.28 47.08 74.00 -26.92 peak 9960.058 12.93 38.90 54.14 51.12 48.81 68.20 -19.39 peak 3 10600.000 13.59 39.30 53.74 48.56 47.71 68.20 -20.49 peak 15900.000 17.28 38.70 54.03 46.54 48.49 74.00 -25.51 peak 6 pp16642.210 17.62 39.28 54.19 47.49 50.20 68.20 -18.00 peak



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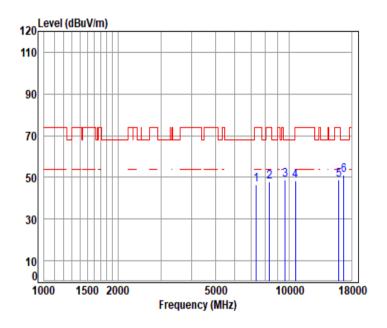


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11a_TX_CH_64_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5320 TX RSE

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	${\sf Factor}$	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	54.61	46.48	74.00	-27.52	peak
2	8333.913	11.72	38.44	55.60	53.35	47.91	74.00	-26.09	peak
3	9650.476	12.57	38.70	54.41	52.05	48.91	68.20	-19.29	peak
4	10640.000	13.77	39.34	53.72	49.06	48.45	74.00	-25.55	peak
5	15960.000	17.20	38.64	54.01	46.96	48.79	74.00	-25.21	peak
6	pp16761.290	17.51	39.52	54.23	48.08	50.88	68.20	-17.32	peak



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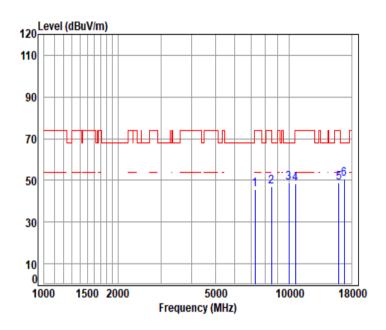


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11a_TX_CH_64_Vertical



Condition: 3m VERTICAL : 04945WM Job No Mode : 5320 TX RSE

> : 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 7263.242 11.51 36.63 56.49 54.13 45.78 74.00 -28.22 peak 1 2 8488.119 12.23 38.32 55.46 51.92 47.01 74.00 -26.99 peak 9980.368 12.97 38.90 54.12 51.06 3 48.81 68.20 -19.39 peak 10640.000 13.77 39.34 53.72 48.79 48.18 74.00 -25.82 peak 15960.000 17.20 38.64 54.01 47.14 48.97 74.00 -25.03 peak 6 pp16812.580 17.55 39.60 54.24 47.57 50.48 68.20 -17.72 peak



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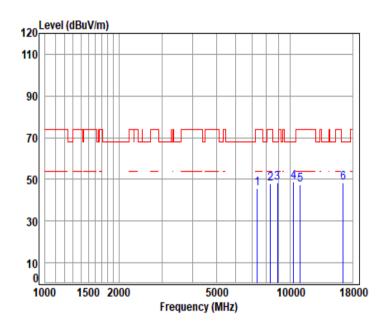


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11a_TX_CH_100_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5500 TX RSE

: 5G Wi-Fi 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	7352.564	11.50	36.79	56.42	53.96	45.83	74.00	-28.17	peak
2	8308.486	11.75	38.04	55.62	53.62	47.79	74.00	-26.21	peak
3	8877.185	12.23	38.55	55.11	52.87	48.54	68.20	-19.66	peak
4	pp10353.130	13.60	39.00	53.89	50.06	48.77	68.20	-19.43	peak
5	11000.000	14.17	39.40	53.50	47.55	47.62	74.00	-26.38	peak
6	16500.000	17.74	38.90	54.15	45.94	48.43	68.20	-19.77	peak



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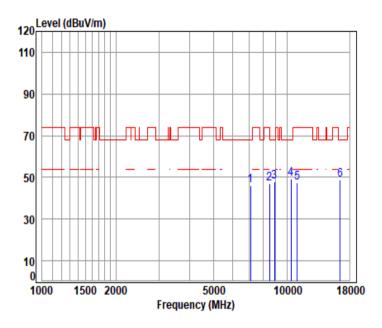


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11a_TX_CH_100_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5500 TX RSE

> : 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 7109.531 11.95 36.42 56.61 54.24 46.00 68.20 -22.20 peak 1 2 8496.769 12.29 38.31 55.45 51.88 47.03 74.00 -26.97 peak 55.09 8904.353 12.22 38.59 47.85 68.20 -20.35 peak 3 52.13 4 pp10374.240 13.61 39.00 53.88 50.48 49.21 68.20 -18.99 peak 5 11000.000 14.17 39.40 53.50 47.28 47.35 74.00 -26.65 peak 16500.000 17.74 38.90 54.15 46.24 48.73 68.20 -19.47 peak



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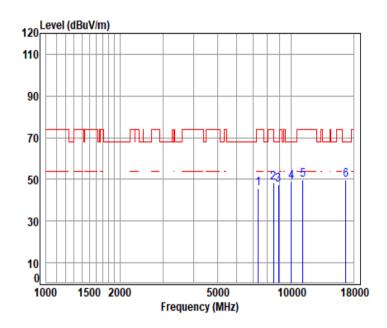


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11a_TX_CH_116_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5580 TX RSE

: 5G Wi-Fi 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	7345.079	11.51	36.79	56.42	53.85	45.73	74.00	-28.27	peak
2	8470.845	12.11	38.36	55.48	53.17	48.16	74.00	-25.84	peak
3	8895.287	12.22	38.59	55.09	51.95	47.67	68.20	-20.53	peak
4	10010.910	13.04	38.92	54.09	51.03	48.90	68.20	-19.30	peak
5	11160.000	14.72	39.56	53.55	48.91	49.64	74.00	-24.36	peak
6	pp16740.000	17.54	39.48	54.22	46.78	49.58	68.20	-18.62	peak



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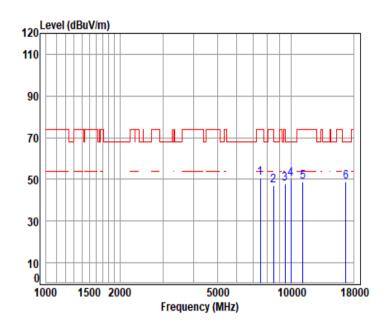


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11a_TX_CH_116_Vertical



Condition: 3m VERTICAL Job No : 04945WM : 5580 TX RSE Mode

: 5G Wi-Fi 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	7480.987	11.28	36.80	56.32	58.70	50.46	74.00	-23.54	peak
2	8496.769	12.29	38.31	55.45	51.94	47.09	74.00	-26.91	peak
3	9465.507	12.47	38.83	54.58	51.00	47.72	74.00	-26.28	peak
4	pp 9990.539	12.99	38.90	54.11	52.53	50.31	68.20	-17.89	peak
5	11160.000	14.72	39.56	53.55	48.29	49.02	74.00	-24.98	peak
6	16740.000	17.54	39.48	54.22	45.81	48.61	68.20	-19.59	peak



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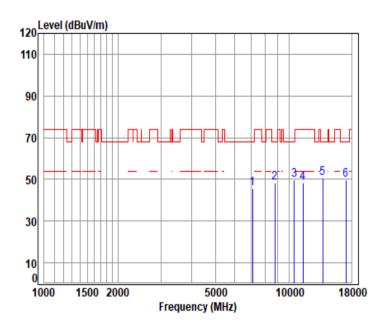


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11a_TX_CH_140_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5700 TX RSE

: 5G Wi-Fi 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	7102.293	11.98	36.40	56.62	53.93	45.69	68.20	-22.51	peak
2	8751.494	12.17	38.50	55.22	52.97	48.42	68.20	-19.78	peak
3	10501.820	13.64	39.10	53.80	50.98	49.92	68.20	-18.28	peak
4	11400.000	14.21	39.70	53.62	47.95	48.24	74.00	-25.76	peak
5	pp13727.930	16.28	39.97	54.43	48.88	50.70	68.20	-17.50	Peak
6	17100.000	18.47	39.80	54.32	45.72	49.67	68.20	-18.53	peak



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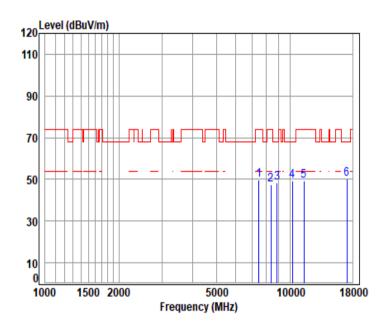


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11a_TX_CH_140_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5700 TX RSE

: 5G Wi-Fi 11a

. 50	***	114						
	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	
7473.371	11.30	36.80	56.32	57.94	49.72	74.00	-24.28	peak
8359.419	11.68	38.68	55.58	52.79	47.57	74.00	-26.43	peak
8850.100	12.23	38.50	55.13	52.84	48.44	68.20	-19.76	peak
10206.540	13.12	39.09	53.98	50.86	49.09	68.20	-19.11	peak
11400.000	14.21	39.70	53.62	48.89	49.18	74.00	-24.82	peak
pp17100.000	18.47	39.80	54.32	46.30	50.25	68.20	-17.95	peak



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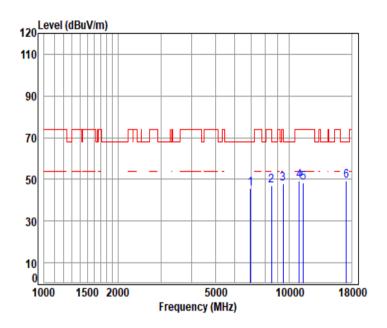


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11a_Straddle_TX_CH_144_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5720 TX RSE

: 5G Wi-Fi 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	6951.989	11.37	36.10	56.71	54.72	45.48	68.20	-22.72	peak
2	8488.119	12.23	38.32	55.46	52.06	47.15	74.00	-26.85	peak
3	9446.244	12.42	38.80	54.60	51.20	47.82	74.00	-26.18	peak
4	10994.380	14.16	39.39	53.50	49.15	49.20	74.00	-24.80	peak
5	11440.000	14.55	39.66	53.63	47.68	48.26	74.00	-25.74	peak
6	pp17160.000	18.08	39.86	54.33	45.83	49.44	68.20	-18.76	peak



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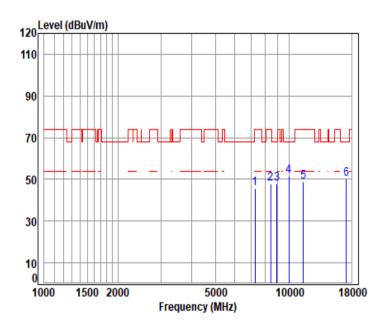


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11a_Straddle_TX_CH_144_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5720 TX RSE

> : 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m 7270.644 11.51 36.64 56.48 53.94 45.61 74.00 -28.39 peak 1 2 8436.402 11.88 38.45 55.51 53.05 47.87 74.00 -26.13 peak 3 8940.705 12.19 38.52 55.05 52.39 48.05 68.20 -20.15 peak 4 pp10000.720 13.01 38.90 54.10 53.69 51.50 68.20 -16.70 peak 5 11440.000 14.55 39.66 53.63 48.12 48.70 74.00 -25.30 peak 17160.000 18.08 39.86 54.33 46.73 50.34 68.20 -17.86 peak



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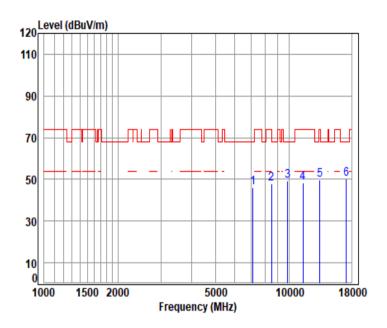


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11n_40M_Straddle_TX_CH_142_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5710 TX RSE

: 5G Wi-Fi 11n40

	. 50	***	111110						
		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	7131.289	11.84	36.46	56.59	54.59	46.30	68.20	-21.90	peak
2	8496.769	12.29	38.31	55.45	52.77	47.92	74.00	-26.08	peak
3	9859.122	12.92	38.00	54.23	52.67	49.36	68.20	-18.84	peak
4	11420.000	14.38	39.68	53.63	48.15	48.58	74.00	-25.42	peak
5	13355.530	16.19	40.30	54.46	47.68	49.71	74.00	-24.29	Peak
6	pp17130.000	18.27	39.83	54.33	46.49	50.26	68.20	-17.94	peak



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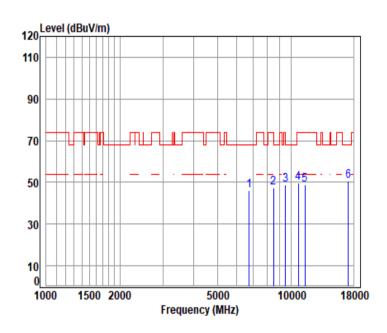


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11n_40M_Straddle_TX_CH_142_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5710 TX RSE

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m 6749.641 11.39 35.70 56.75 55.85 46.19 68.20 -22.01 peak 1 2 8470.845 12.11 38.36 55.48 52.67 47.66 74.00 -26.34 peak 9504.150 12.55 54.55 48.75 3 38.89 51.86 68.20 -19.45 peak 50.02 10707.040 14.01 39.39 53.68 49.74 74.00 -24.26 peak 11420.000 14.38 39.68 53.63 48.30 48.73 74.00 -25.27 peak 6 pp17130.000 18.27 39.83 54.33 46.72 50.49 68.20 -17.71 peak



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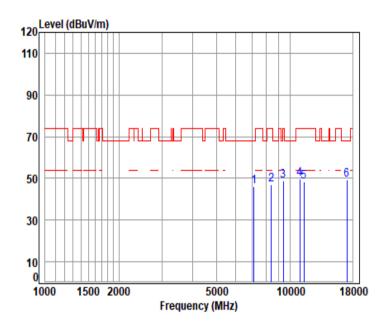


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11ac_80M_Straddle_TX_CH_138_Horizontal



Condition: 3m VERTICAL Job No : 04945WM : 5690 TX RSE Mode

: 5G Wi-Fi 11ac80

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7116.776	11.91	36.43	56.61	54.44	46.17	68.20	-22.03	peak
2	8393.547	11.64	38.61	55.55	52.18	46.88	74.00	-27.12	peak
3	9379.132	12.27	38.80	54.66	52.32	48.73	74.00	-25.27	peak
4	10972.000	14.11	39.37	53.52	49.99	49.95	74.00	-24.05	peak
5	11380.000	14.30	39.70	53.61	47.98	48.37	74.00	-25.63	peak
6	pp17070.000	18.35	39.77	54.31	45.38	49.19	68.20	-19.01	peak



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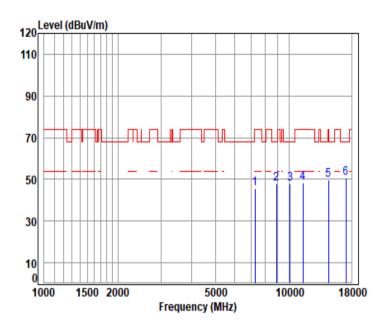


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11ac_80M_Straddle_TX_CH_138_Vertical



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5690 TX RSE

: 5G Wi-Fi 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	7278.053	11.51	36.66	56.48	53.74	45.43	74.00	-28.57	peak
2	8877.185	12.23	38.55	55.11	52.22	47.89	68.20	-20.31	peak
3	10123.710	13.23	39.10	54.03	49.50	47.80	68.20	-20.40	Peak
4	11380.000	14.30	39.70	53.61	47.85	48.24	74.00	-25.76	peak
5	14518.930	16.92	39.46	54.35	47.66	49.69	68.20	-18.51	Peak
6	pp17070.000	18.35	39.77	54.31	46.63	50.44	68.20	-17.76	peak



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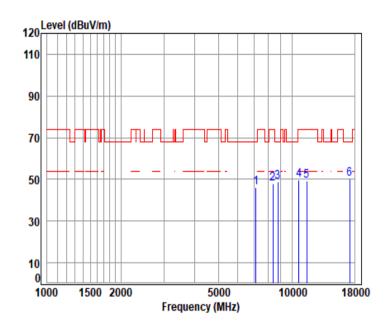


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11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5745 TX RSE

: 5.8G Wi-Fi 11a

Cable Ant Preamp Limit 0ver Read

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7124.029	11.88	36.45	56.60	54.14	45.87	68.20	-22.33	peak
2	8342.406	11.70	38.58	55.59	53.00	47.69	74.00	-26.31	peak
3	8769.341	12.20	38.50	55.21	53.32	48.81	68.20	-19.39	peak
4	10674.370	13.92	39.37	53.70	49.95	49.54	74.00	-24.46	peak
5	11490.000	14.97	39.61	53.65	48.38	49.31	74.00	-24.69	peak
6	pp17235.000	17.83	40.01	54.35	46.78	50.27	68.20	-17.93	peak



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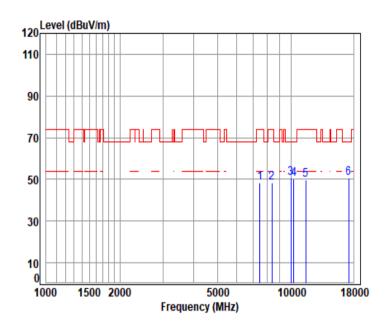


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11a_TX_CH_149_Vertical



Condition: 3m VERTICAL : 04945WM Job No Mode : 5745 TX RSE

: 5.8G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 7473.371 11.30 36.80 56.32 56.59 48.37 74.00 -25.63 peak 1 2 8359.419 11.68 38.68 55.58 53.75 48.53 74.00 -25.47 peak 3 pp 9970.208 12.95 38.90 54.13 53.10 50.82 68.20 -17.38 peak 10248.210 13.33 39.05 53.95 51.96 50.39 68.20 -17.81 peak 5 11490.000 14.97 39.61 53.65 48.77 49.70 74.00 -24.30 peak 17235.000 17.83 40.01 54.35 47.18 50.67 68.20 -17.53 peak



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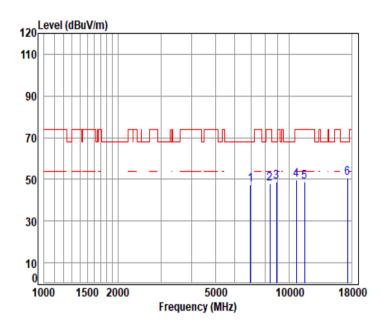


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11a_TX_CH_157_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5785 TX RSE

: 5.8G Wi-Fi 11a

Ant Preamp Cable Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m 6959.073 11.37 36.12 56.71 56.85 47.63 68.20 -20.57 peak 8350.908 11.69 38.70 55.58 53.16 47.97 74.00 -26.03 peak 38.55 55.11 53.04 8877.185 12.23 48.71 68.20 -19.49 peak 10707.040 14.01 39.39 53.68 49.88 49.60 74.00 -24.40 peak 11570.000 14.78 39.60 53.67 48.30 49.01 74.00 -24.99 peak 6 pp17355.000 18.00 40.31 54.37 46.51 50.45 68.20 -17.75 peak



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3

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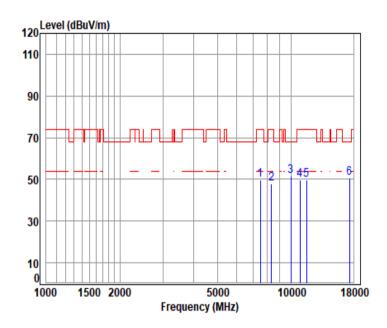


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11a_TX_CH_157_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5785 TX RSE

: 5.8G Wi-Fi 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	7496.243	11.24	36.80	56.30	57.93	49.67	74.00	-24.33	peak
2	8333.913	11.72	38.44	55.60	53.17	47.73	74.00	-26.27	peak
3	pp 9980.368	12.97	38.90	54.12	53.71	51.46	68.20	-16.74	peak
4	10882.960	13.91	39.30	53.57	50.12	49.76	74.00	-24.24	peak
5	11570.000	14.78	39.60	53.67	49.16	49.87	74.00	-24.13	peak
6	17355.000	18.00	40.31	54.37	46.75	50.69	68.20	-17.51	peak



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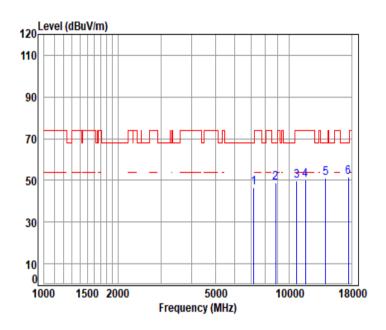


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11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM Mode : 5825 TX RSE

: 5.8G Wi-Fi 11a

		u	1 110						
		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	7167.700	11.67	36.54	56.57	55.01	46.65	68.20	-21.55	peak
2	8832.090	12.24	38.50	55.15	53.45	49.04	68.20	-19.16	peak
3	10750.750	13.86	39.35	53.65	49.99	49.55	74.00	-24.45	peak
4	11650.000	14.69	39.55	53.69	49.45	50.00	74.00	-24.00	peak
5	14125.080	16.41	39.87	54.39	49.02	50.91	68.20	-17.29	Peak
6	pp17475.000	18.35	40.78	54.40	46.71	51.44	68.20	-16.76	peak



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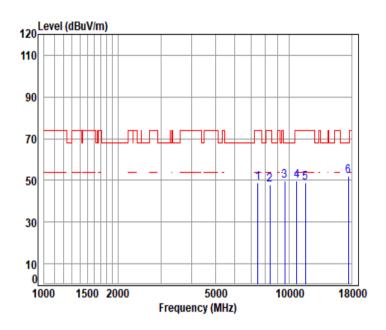


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11a_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 04945WM Mode : 5825 TX RSE

: 5.8G Wi-Fi 11a

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1 7473.371	11.30	36.80	56.32	57.23	49.01	74.00	-24.99	peak
2	8359.419	11.68	38.68	55.58	53.17	47.95	74.00	-26.05	peak
3	9611.236	12.46	38.78	54.45	52.77	49.56	68.20	-18.64	peak
4	10739.810	13.90	39.36	53.66	50.09	49.69	74.00	-24.31	peak
5	11650.000	14.69	39.55	53.69	48.36	48.91	74.00	-25.09	peak
6	5 nn17475 .000	18.35	40.78	54.40	47 30	52 03	68 20	-16 17	neak



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7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

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

- *(1) 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.
- (2) 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.
- (3) 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.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz 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 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 at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Atmospheric Pressure: 1020 mbar Humidity: 50.8 % RH



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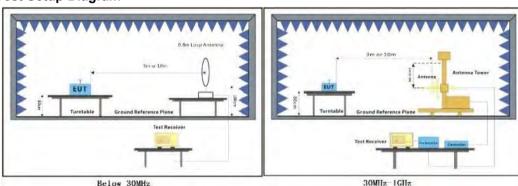
Report No.: SZCR241200494508

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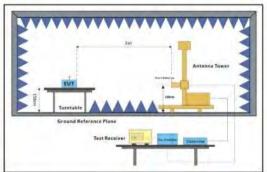
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	14	Charge + TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	15	Charge + TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	16	Charge + TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							
Final test	17	Charge + TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.							

7.5.3 Test Setup Diagram



Below 30MHz



Above 1GHz



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7.5.4 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
- 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

Remark 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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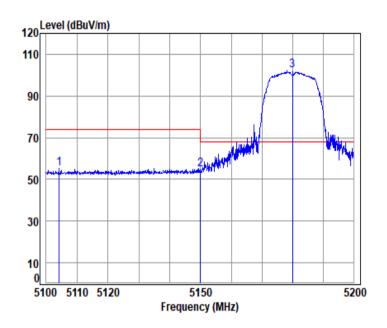


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11a_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5104.161 2 5149.980 3 pp 5180.000	10.14	32.40	30.84	42.99	54.69	74.00	-19.31	peak



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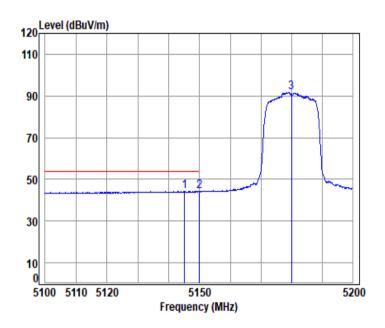


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11a_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5180 Band edge

: 5G Wi-Fi 11a

	Freq			Preamp Factor						
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5145.060	10.12	32.39	30.84	32.57	44.24	54.00	-9.76	Average	
pp	5149.980	10.14	32.40	30.84	32.71	44.41	54.00	-9.59	Average	
	5180 000	10 25	32 /6	30 83	79 81	91 69			Λυρρασο	



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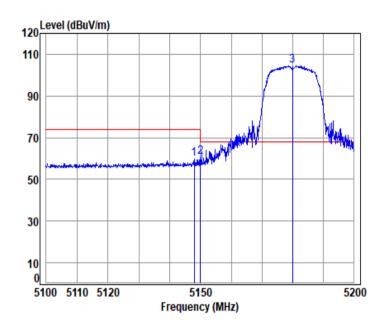


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11a_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5147.958 10.13 32.40 30.84 48.11 59.80 74.00 -14.20 Peak 5149.980 10.14 32.40 30.84 49.03 60.73 74.00 -13.27 Peak 3 pp 5180.000 10.25 32.46 30.83 92.47 104.35 68.20 36.15 Peak



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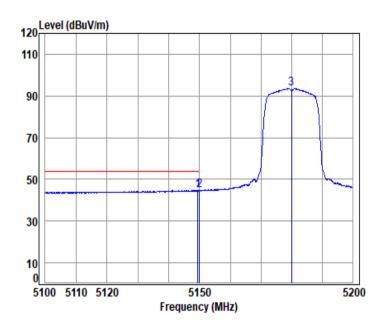


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11a_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 5149.458 10.14 32.40 30.84 33.02 44.72 54.00 -9.28 Average 2 pp 5149.980 10.14 32.40 30.84 33.10 44.80 54.00 -9.20 Average 5180.000 10.25 32.46 30.83 81.85 93.73 ----- Average



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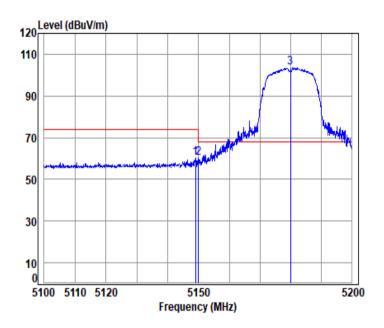


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11n_HT(20M)_TX_CH_36_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	10.14	32.40	30.84	48.42	60.12	74.00	-13.88	peak
2	5149.980	10.14	32.40	30.84	48.67	60.37	74.00	-13.63	peak
3 рр	5180.000	10.25	32.46	30.83	91.60	103.48	68.20	35.28	peak



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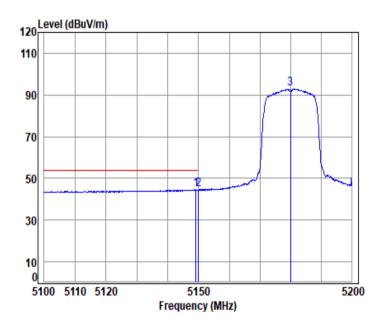


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11n_HT(20M)_TX_CH_36_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5149.157 10.14 32.40 30.84 32.91 44.61 54.00 -9.39 Average 5149.980 10.14 32.40 30.84 32.84 44.54 54.00 -9.46 Average 5180.000 10.25 32.46 30.83 81.08 92.96 ----- Average



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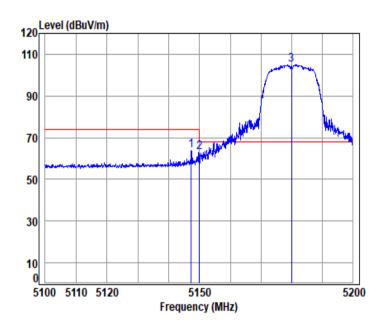


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11n_HT(20M)_TX_CH_36_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5147.258 10.13 32.39 30.84 52.01 63.69 74.00 -10.31 Peak 5149.980 10.14 32.40 30.84 51.19 62.89 74.00 -11.11 Peak 3 pp 5180.000 10.25 32.46 30.83 93.09 104.97 68.20 36.77 Peak



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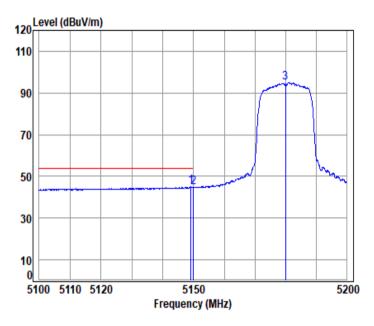


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11n_HT(20M)_TX_CH_36_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5180 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5149.157 10.14 32.40 30.84 33.35 45.05 54.00 -8.95 Average 5149.980 10.14 32.40 30.84 33.17 44.87 54.00 -9.13 Average

5180.000 10.25 32.46 30.83 82.92 94.80 ----- Average



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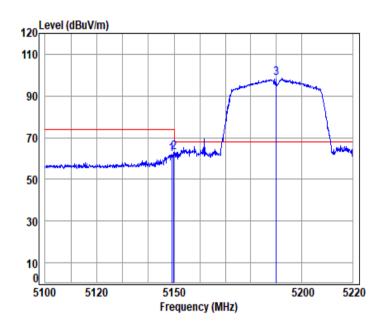


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11n_HT(40M)_TX_CH_38_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5149.102								•
5149.980 5190.000								•



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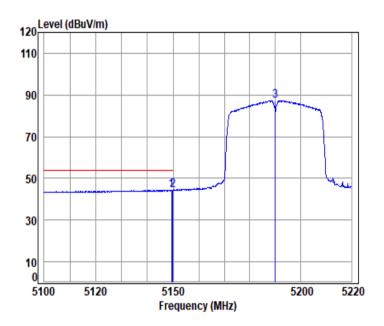


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11n_HT(40M)_TX_CH_38_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	10.14	32.40	30.84	32.68	44.38	54.00	-9.62	Average
2 pp	5149.980	10.14	32.40	30.84	32.73	44.43	54.00	-9.57	Average
3	5190.000	10.29	32.48	30.82	75.38	87.33			Average



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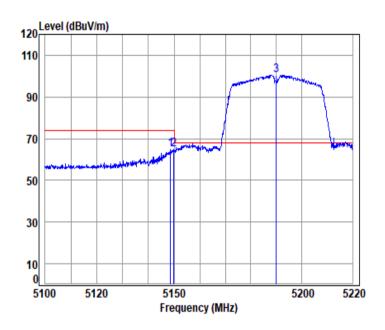


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Report No.: SZCR241200494508

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11n_HT(40M)_TX_CH_38_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5148.623 10.13 32.40 30.84 53.01 64.70 74.00 -9.30 Peak 5149.980 10.14 32.40 30.84 52.96 64.66 74.00 -9.34 Peak 3 pp 5190.000 10.29 32.48 30.82 88.59 100.54 68.20 32.34 Peak



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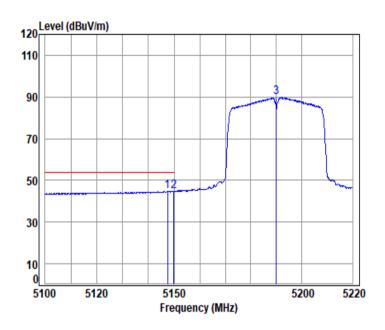


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11n_HT(40M)_TX_CH_38_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5190 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5147.426 10.13 32.39 30.84 33.05 44.73 54.00 -9.27 Average 2 pp 5149.980 10.14 32.40 30.84 33.13 44.83 54.00 -9.17 Average 5190.000 10.29 32.48 30.82 78.02 89.97 ----- Average



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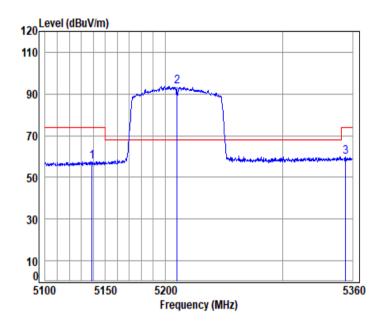


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11ac_VHT(80M)_TX_CH_42_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5138.691	10.10	32.38	30.84	45.97	57.61	74.00	-16.39	peak
2 pp	5210.000	10.32	32.52	30.82	81.72	93.74	68.20	25.54	peak
3	5354.140	10.46	32.80	30.76	47.10	59.60	74.00	-14.40	peak



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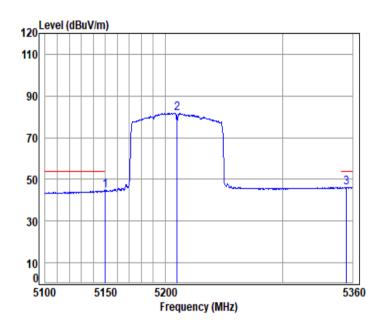


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11ac_VHT(80M)_TX_CH_42_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

			11000							
		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	5149.947	10.14	32.40	30.84	32.92	44.62	54.00	-9.38	Average	
2	5210.000	10.32	32.52	30.82	69.77	81.79			Average	
3	nn 5354 938	10.47	32.80	30.76	33 58	46 09	54 00	-7 91	Average	



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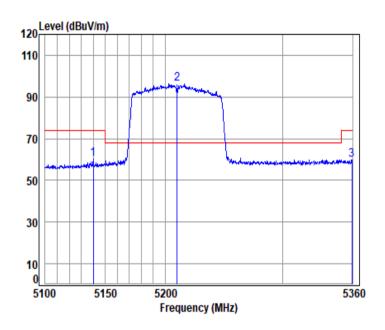


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11ac_VHT(80M)_TX_CH_42_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m 5139.969 10.10 32.38 30.84 48.70 60.34 74.00 -13.66 Peak 84.47 96.49 68.20 28.29 Peak 2 pp 5210.000 10.32 32.52 30.82 5359.467 10.48 32.80 30.76 47.22 59.74 74.00 -14.26 Peak



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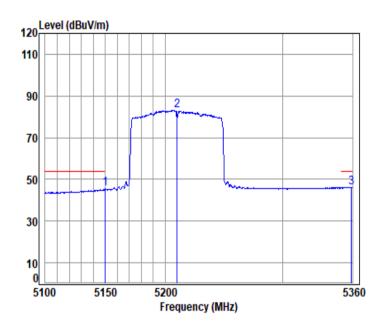


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11ac_VHT(80M)_TX_CH_42_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5210 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5149.690 10.14 32.40 30.84 33.75 45.45 54.00 -8.55 Average 5210.000 10.32 32.52 30.82 71.18 83.20 ----- Average 3 pp 5359.201 10.48 32.80 30.76 33.60 46.12 54.00 -7.88 Average



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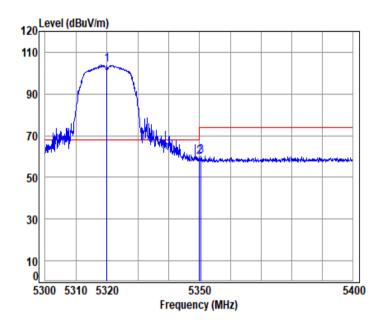


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11a_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5320 Band edge

: 5G Wi-Fi 11a

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1 pp	5320.000	10.35	32.74	30.77	91.61	103.93	68.20	35.73	peak
2	5350.020	10.45	32.80	30.76	47.13	59.62	74.00	-14.38	peak
3	5350, 566	10.45	32.80	30.76	47 94	60 43	74 99	-13 57	neak



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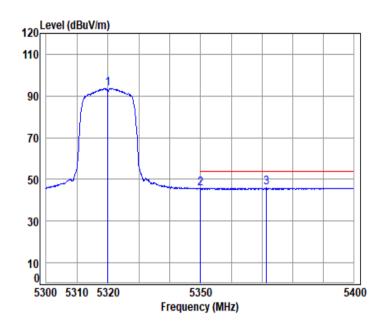


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11a_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

	Frea			Preamp Factor					
	1164	2033	i ac coi	1 ac coi	Level	Level	LINC	LIMIC	Kellidi K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	F320, 000	40.35	22.74	20.77	04 40	02.74			
1	5320.000	10.35	32.74	30.//	81.42	93.74			Average
2	5350.020	10.45	32.80	30.76	33.13	45.62	54.00	-8.38	Average
3	nn 5371 510	10 52	32 80	30 75	22 21	15 88	5/ 00	_2 12	Λυρησσο



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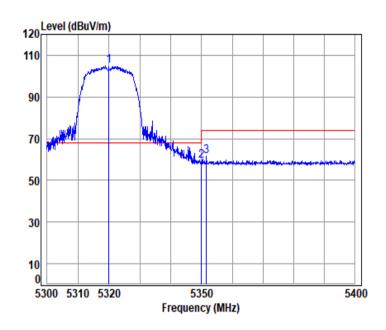


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11a_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 1 pp 5320.000 10.35 32.74 30.77 92.48 104.80 68.20 36.60 Peak 5350.020 10.45 32.80 30.76 47.03 59.52 74.00 -14.48 Peak 5351.566 10.46 32.80 30.76 48.97 61.47 74.00 -12.53 Peak



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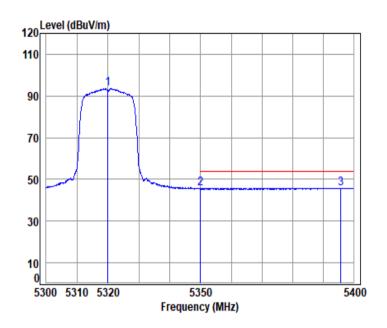


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11a_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5320 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 5320.000 10.35 32.74 30.77 81.17 93.49 ----- Average 5350.020 10.45 32.80 30.76 33.11 45.60 54.00 -8.40 Average 3 pp 5395.863 10.61 32.80 30.74 33.11 45.78 54.00 -8.22 Average



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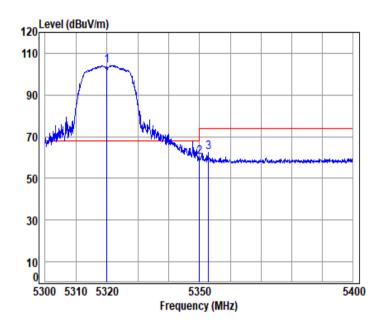


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11n_HT(20M)_TX_CH_64_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 1 pp 5320.000 10.35 32.74 30.77 91.72 104.04 68.20 35.84 peak 5350.020 10.45 32.80 30.76 47.93 60.42 74.00 -13.58 peak 5352.867 10.46 32.80 30.76 49.96 62.46 74.00 -11.54 peak



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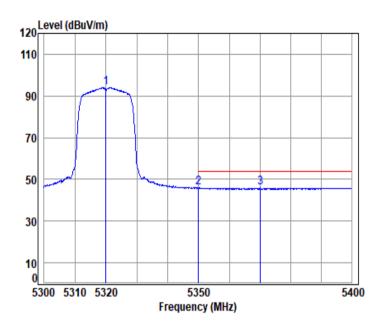


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11n_HT(20M)_TX_CH_64_Horizontal-Avg



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5320.000 5350.020	10.45	32.80	30.76	33.39	45.88	54.00	-8.12	Average
3 pp	5370.205	10.52	32.80	30.75	33.33	45.90	54.00	-8.10	Average



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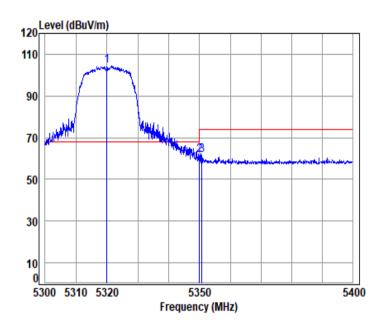


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11n_HT(20M)_TX_CH_64_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5320.000 10.35 32.74 30.77 92.11 104.43 68.20 36.23 Peak 5350.020 10.45 32.80 30.76 48.95 61.44 74.00 -12.56 Peak 5350.767 10.45 32.80 30.76 49.06 61.55 74.00 -12.45 Peak



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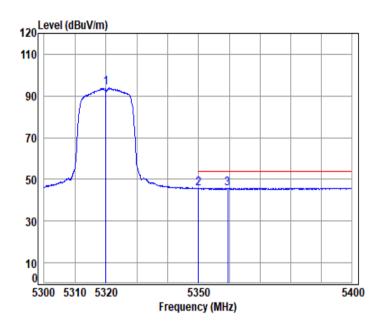


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11n_HT(20M)_TX_CH_64_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5320 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5320.000 10.35 32.74 30.77 81.50 93.82 ----- Average 5350.020 10.45 32.80 30.76 33.24 45.73 54.00 -8.27 Average 3 pp 5359.475 10.48 32.80 30.76 33.28 45.80 54.00 -8.20 Average



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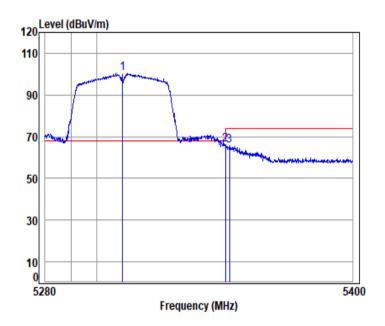


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11n_HT(40M)_TX_CH_62_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5310.000 5350.020								•
	5351.676								•



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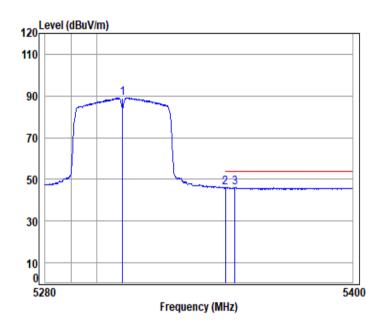


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11n_HT(40M)_TX_CH_62_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5310.000	10.31	32.72	30.78	76.85	89.10			Average
pp	5350.020	10.45	32.80	30.76	33.59	46.08	54.00	-7.92	Average
	5353 8/11	10 /6	32 80	30 76	33 5/	16 91	5/ 00	-7 96	Average



1 2

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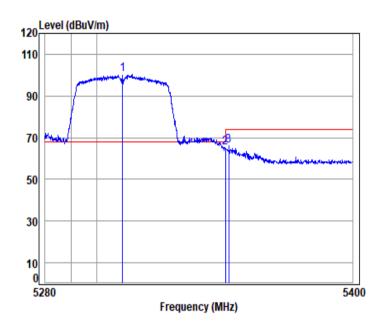


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11n_HT(40M)_TX_CH_62_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5310.000 10.31 32.72 30.78 87.94 100.19 68.20 31.99 Peak 5350.020 10.45 32.80 30.76 52.90 65.39 74.00 -8.61 Peak 5351.436 10.45 32.80 30.76 53.86 66.35 74.00 -7.65 Peak



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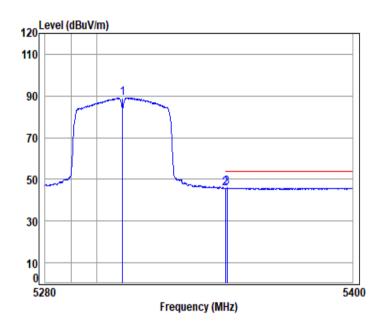


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11n_HT(40M)_TX_CH_62_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5310 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5310.000 10.31 32.72 30.78 76.95 89.20 ----- Average 5350.020 10.45 32.80 30.76 33.32 45.81 54.00 -8.19 Average 3 pp 5350.714 10.45 32.80 30.76 33.48 45.97 54.00 -8.03 Average



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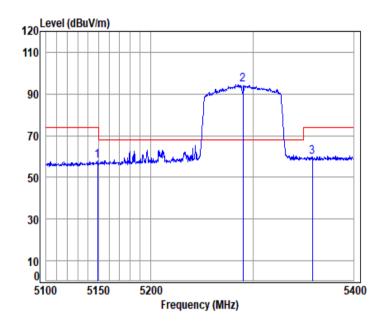


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11ac_VHT(80M)_TX_CH_58_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	5149.209 5290.000								•
	5358.798								•



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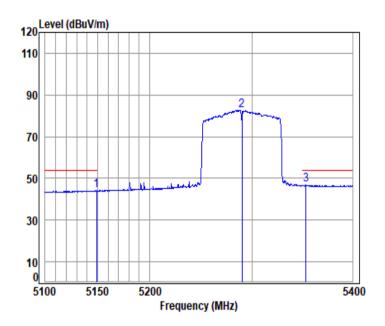


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11ac_VHT(80M)_TX_CH_58_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

			11000							
		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		
	5149.209	10.14	32.40	30.84	32.40	44.10	54.00	-9.90	Average	
	5290.000	10.28	32.68	30.78	70.62	82.80			Average	
nn	5353 594	10.46	32.80	30.76	34 28	46.78	54 00	-7.22	Average	



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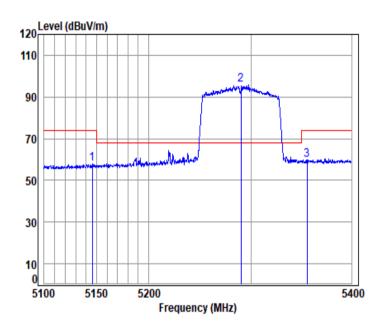


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11ac_VHT(80M)_TX_CH_58_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5145.973 10.12 32.39 30.84 46.16 57.83 74.00 -16.17 Peak 83.43 95.61 68.20 27.41 Peak 2 pp 5290.000 10.28 32.68 30.78 5355.736 10.47 32.80 30.76 47.09 59.60 74.00 -14.40 Peak



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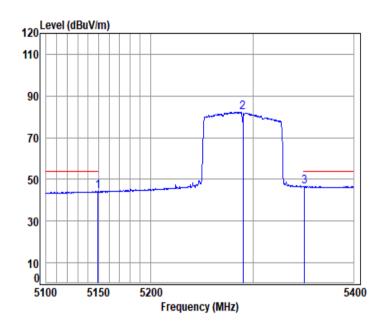


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11ac_VHT(80M)_TX_CH_58_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5290 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5149.503 10.14 32.40 30.84 32.44 44.14 54.00 -9.86 Average 5290.000 10.28 32.68 30.78 70.05 82.23 ----- Average 3 pp 5350.840 10.45 32.80 30.76 34.07 46.56 54.00 -7.44 Average



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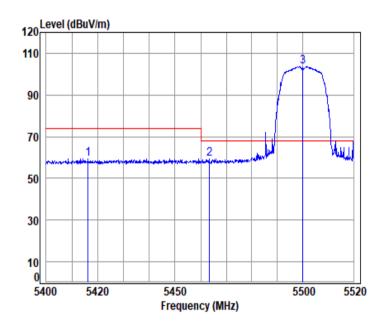


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11a_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

		Freq			Preamp Factor					Remark
					dB					
1		5416.166	10.61	32.83	30.73	46.74	59.45	74.00	-14.55	peak
2		5463.392	10.59	32.90	30.71	46.72	59.50	68.20	-8.70	peak
3	nn	5500 000	10 52	32 90	30 70	91 02	103 80	68 20	35 60	nook



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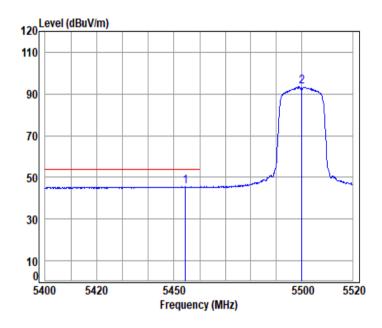


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11a_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 1 pp 5454.393 10.60 32.90 30.72 32.70 45.48 54.00 -8.52 Average

5500.000 10.58 32.90 30.70 80.61 93.39 ----- Average



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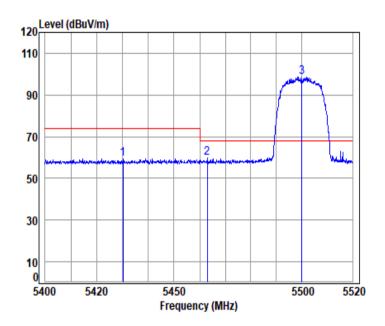


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11a_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5430.230 10.61 32.86 30.73 46.70 59.44 74.00 -14.56 Peak 5462.911 10.59 32.90 30.71 46.85 59.63 68.20 -8.57 peak 3 pp 5500.000 10.58 32.90 30.70 85.88 98.66 68.20 30.46 Peak



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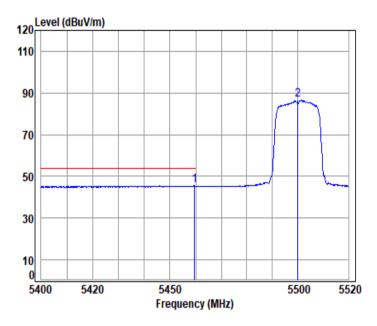


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11a_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11a

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

1 pp 5459.670 10.60 32.90 30.72 32.65 45.43 54.00 -8.57 Average 5500.000 10.58 32.90 30.70 73.71 86.49 ----- Average



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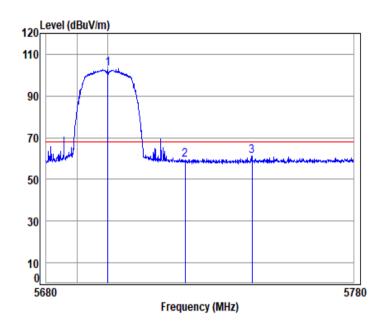


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11a_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5700 Band edge

: 5G Wi-Fi 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	
_		F700 000	40.56	22.00	30.60	00.03	400.07	60.00	24.77	
1	. pp	5700.000	10.56	33.20	30.62	89.83	102.97	68.20	34.//	peak
2	2	5725.000	10.68	33.25	30.61	46.12	59.44	68.20	-8.76	peak
2	1	57/6 807	10 78	33 29	30 60	17 81	61 31	68 20	-6 89	neak



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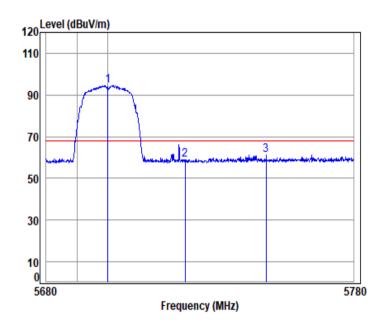


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11a_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5700 Band edge

: 5G Wi-Fi 11a

							Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
							-ID-A//		
	MHZ	ав	aB/m	ав	abuv	abuv/m	dBuV/m	ав	
1 pp	5700.000	10.56	33.20	30.62	81.53	94.67	68.20	26.47	Peak
	5725.000								
3	5751 //22	10 80	33 30	30 60	17 79	61 29	68 20	-6 91	neak



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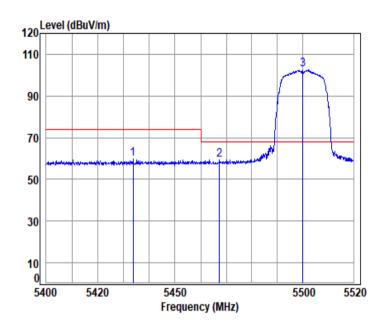


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11n_HT(20M)_TX_CH_100_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5433.693 5467.355 5500.000	10.59	32.90	30.71	46.49	59.27	68.20	-8.93	peak



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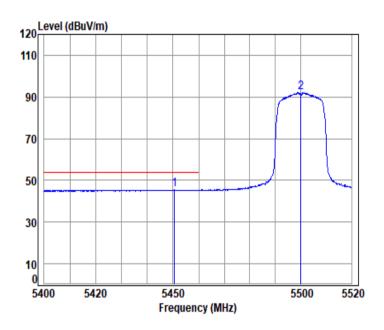


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11n_HT(20M)_TX_CH_100_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 1 pp 5450.558 10.60 32.90 30.72 32.67 45.45 54.00 -8.55 Average

5500.000 10.58 32.90 30.70 79.30 92.08 ----- Average



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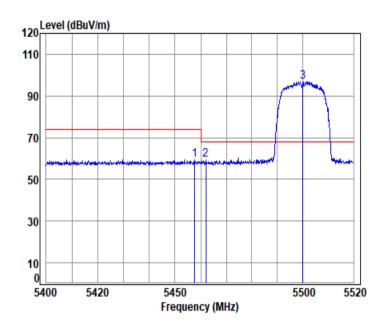


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11n_HT(20M)_TX_CH_100_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5457.631 10.60 32.90 30.72 46.57 59.35 74.00 -14.65 Peak 5461.951 10.60 32.90 30.72 46.66 59.44 68.20 -8.76 peak 3 pp 5500.000 10.58 32.90 30.70 84.01 96.79 68.20 28.59 Peak



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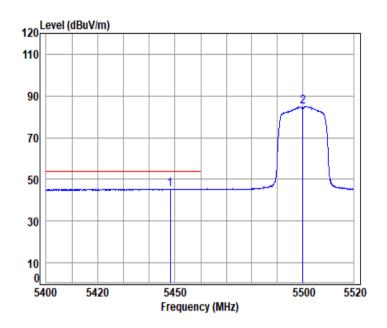


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11n_HT(20M)_TX_CH_100_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5500 Band edge

: 5G Wi-Fi 11n20

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

MHz dBuV dBuV/m dBuV/m dB/m

1 pp 5448.163 10.60 32.90 30.72 32.60 45.38 54.00 -8.62 Average 5500.000 10.58 32.90 30.70 72.26 85.04 ----- Average



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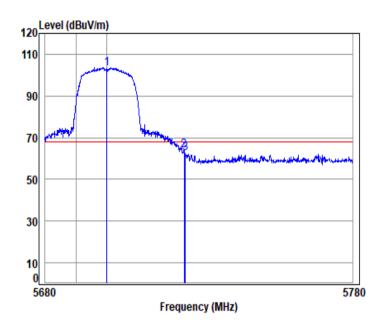


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11n_HT(20M)_TX_CH_140_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5700 Band edge

: 5G Wi-Fi 11n20

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
рр	5700.000	10.56	33.20	30.62	89.80	102.94	68.20	34.74	Peak
	5725.000	10.68	33.25	30.61	50.46	63.78	68.20	-4.42	peak
	5725.483	10.68	33.25	30.61	49.18	62.50	68.20	-5.70	peak



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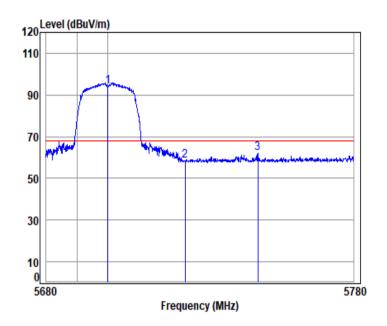


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11n_HT(20M)_TX_CH_140_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5700 Band edge

: 5G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5700.000 10.56 33.20 30.62 80.70 93.84 68.20 25.64 Peak 5725.000 10.68 33.25 30.61 45.09 58.41 68.20 -9.79 peak 5748.713 10.78 33.30 30.60 48.43 61.91 68.20 -6.29 peak



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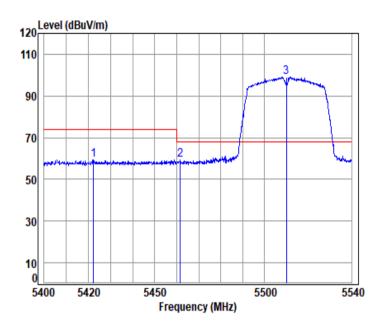


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11n_HT(40M)_TX_CH_102_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

	Freq			Preamp Factor					
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
	5422.299	10.61	32.84	30.73	46.81	59.53	74.00	-14.47	peak
	5461.578	10.60	32.90	30.72	46.32	59.10	68.20	-9.10	peak
nn	5510 000	10 56	32 90	30 70	86 16	98 92	68 20	30 72	neak



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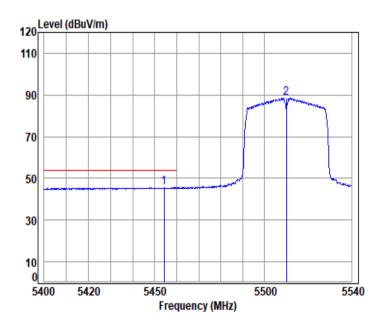


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11n_HT(40M)_TX_CH_102_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

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

MHz dBuV dBuV/m dBuV/m dB/m

1 pp 5454.174 10.60 32.90 30.72 32.77 45.55 54.00 -8.45 Average 5510.000 10.56 32.90 30.70 75.71 88.47 ----- Average



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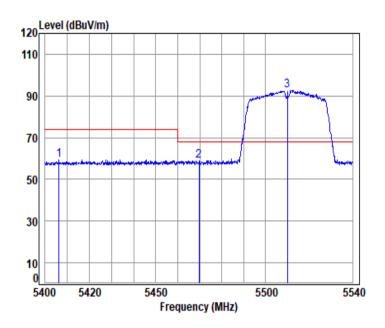


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11n_HT(40M)_TX_CH_102_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5406.223 10.62 32.81 30.74 46.74 59.43 74.00 -14.57 Peak 5469.692 10.59 32.90 30.71 46.18 58.96 68.20 -9.24 peak 3 pp 5510.000 10.56 32.90 30.70 79.89 92.65 68.20 24.45 Peak



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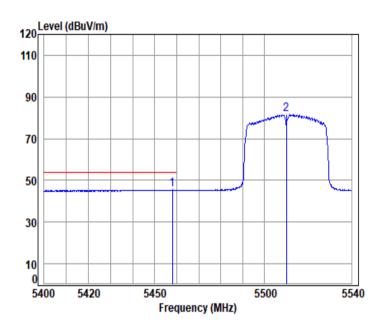


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11n_HT(40M)_TX_CH_102_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5510 Band edge

: 5G Wi-Fi 11n40

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

MHz dBuV dBuV/m dBuV/m dB/m

1 pp 5458.084 10.60 32.90 30.72 32.70 45.48 54.00 -8.52 Average 5510.000 10.56 32.90 30.70 68.86 81.62 ----- Average



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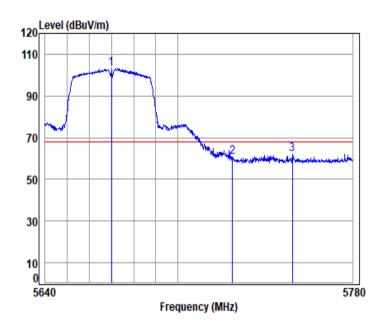


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11n_HT(40M)_TX_CH_134_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5670 Band edge

: 5G Wi-Fi 11n40

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5670.000 5725.000								•
	5752.289	10.80	33.30	30.60	48.70	62.20	68.20	-6.00	peak



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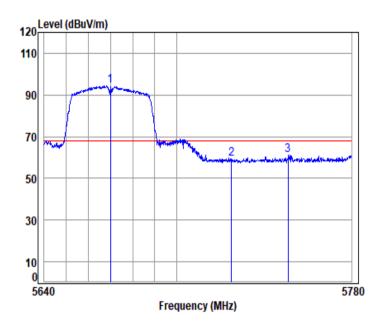


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11n_HT(40M)_TX_CH_134_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5670 Band edge

: 5G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5670.000 10.52 33.14 30.63 81.20 94.23 68.20 26.03 Peak 5725.000 10.68 33.25 30.61 45.99 59.31 68.20 -8.89 peak 5750.878 10.79 33.30 30.60 47.77 61.26 68.20 -6.94 peak



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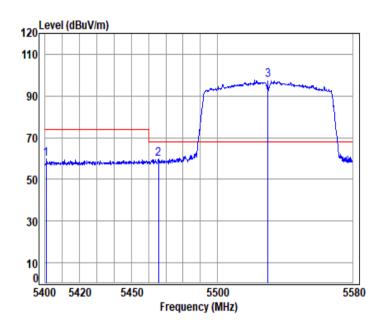


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11ac_VHT(80M)_TX_CH_106_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5400.708 10.62 32.80 30.74 46.95 59.63 74.00 -14.37 peak 5465.734 10.59 32.90 30.71 47.03 59.81 68.20 -8.39 peak 3 pp 5530.000 10.53 32.90 30.69 84.96 97.70 68.20 29.50 peak



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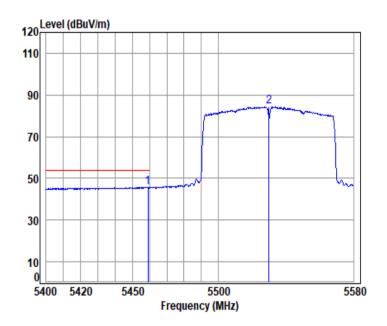


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11ac_VHT(80M)_TX_CH_106_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 1 pp 5459.107 10.60 32.90 30.72 32.98 45.76 54.00 -8.24 Average

5530.000 10.53 32.90 30.69 71.56 84.30 ----- Average



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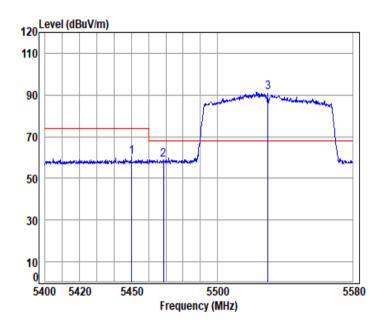


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11ac_VHT(80M)_TX_CH_106_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5449.985 10.60 32.90 30.72 47.30 60.08 74.00 -13.92 Peak 5468.602 10.59 32.90 30.71 46.08 58.86 68.20 -9.34 peak 3 pp 5530.000 10.53 32.90 30.69 78.67 91.41 68.20 23.21 Peak



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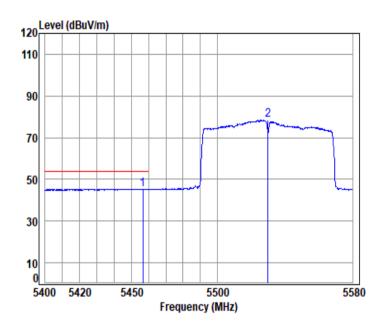


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11ac_VHT(80M)_TX_CH_106_Vertical-Avg



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5530 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5456.601 10.60 32.90 30.72 32.59 45.37 54.00 -8.63 Average

5530.000 10.53 32.90 30.69 65.59 78.33 ----- Average



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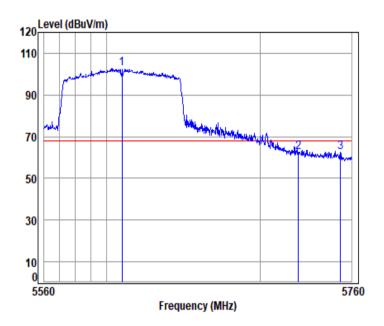


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11ac_VHT(80M)_TX_CH_122_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 04945WM

Mode : 5610 Band edge

: 5G Wi-Fi 11ac80

Fred			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5610.000	10.43	33.02	30.66	89.87	102.66	68.20	34.46	peak
2 5725.000	10.68	33.25	30.61	49.13	62.45	68.20	-5.75	Peak
3 5752.677	10.80	33.31	30.60	49.17	62.68	68.20	-5.52	peak



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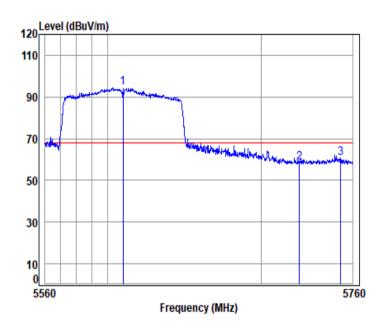


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11ac_VHT(80M)_TX_CH_122_Vertical-Peak



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5610 Band edge

: 5G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5610.000 10.43 33.02 30.66 81.56 94.35 68.20 26.15 Peak 5725.000 10.68 33.25 30.61 45.12 58.44 68.20 -9.76 Peak 5752.270 10.80 33.30 30.60 47.21 60.71 68.20 -7.49 Peak



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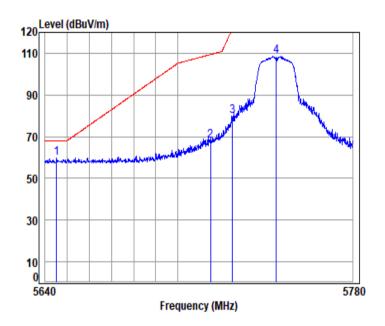


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11a_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5745 Band edge

: 5.8G Wi-Fi 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 pp	5645.119	10.48	33.09	30.64	46.91	59.84	68.20	-8.36	peak
2	5715.000	10.63	33.23	30.61	54.62	67.87	109.40	-41.53	peak
3	5725.000	10.68	33.25	30.61	66.44	79.76	122.20	-42.44	peak
	5745 000								-



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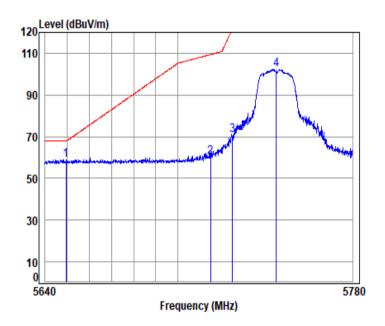


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11a_TX_CH_149_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5649.412 10.48 33.10 30.64 46.11 59.05 68.20 -9.15 peak 5715.000 10.63 33.23 30.61 47.03 60.28 109.40 -49.12 peak 5725.000 10.68 33.25 30.61 57.31 70.63 122.20 -51.57 peak 5745.000 10.77 33.29 30.60 88.84 102.30 ----- peak



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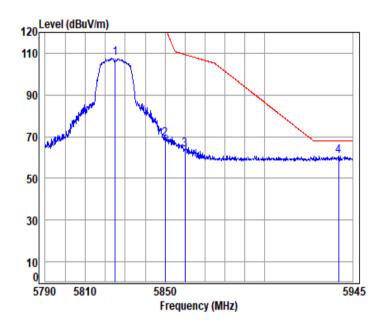


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11a_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

Job No : 04945WM

1 2

Mode : 5825 Band edge

: 5.8G Wi-Fi 11a

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MH-					dBu\//m	dBu\//m		
	MHz	ub	ub/m	dB	ubuv	ubuv/III	ubuv/III	ub	
	5825.000	10.99	33.50	30.57	93.60	107.52			peak
	5850.000	10.95	33.60	30.56	54.81	68.80	122.20	-53.40	peak
	5860.000	10.94	33.58	30.56	50.08	64.04	109.40	-45.36	peak
nn	5937 937	10 86	33 58	30 52	46 65	60 57	68 20	_7 63	neak



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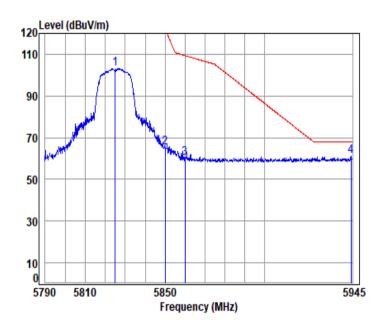


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11a_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 11a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB/m 5825.000 10.99 33.50 30.57 89.31 103.23 ----- peak 5850.000 10.95 33.60 30.56 51.04 65.03 122.20 -57.17 peak 5860.000 10.94 33.58 30.56 46.42 60.38 109.40 -49.02 peak 4 pp 5944.215 10.85 33.59 30.52 47.05 60.97 68.20 -7.23 peak



1 2

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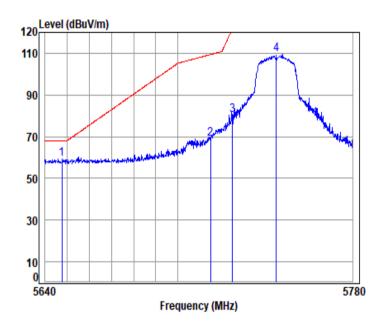


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11n_HT(20M)_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5745 Band edge

: 5.8G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1 pp	5647.611	10.48	33.10	30.64	46.40	59.34	68.20	-8.86	peak
2	5715.000	10.63	33.23	30.61	55.61	68.86	109.40	-40.54	peak
3	5725.000	10.68	33.25	30.61	67.04	80.36	122.20	-41.84	peak
4	5745.000	10.77	33.29	30.60	95.82	109.28			peak



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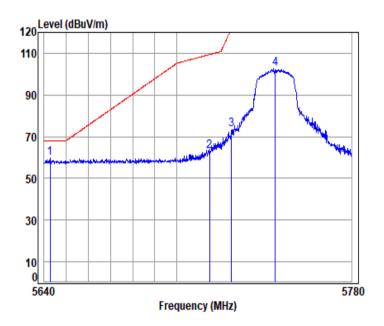


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11n_HT(20M)_TX_CH_149_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5745 Band edge

: 5.8G Wi-Fi 11n20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5642.628 10.47 33.09 30.64 47.03 59.95 68.20 -8.25 peak 2 5715.000 10.63 33.23 30.61 49.93 63.18 109.40 -46.22 peak 3 5725.000 10.68 33.25 30.61 60.32 73.64 122.20 -48.56 peak 5745.000 10.77 33.29 30.60 89.03 102.49 ----- peak



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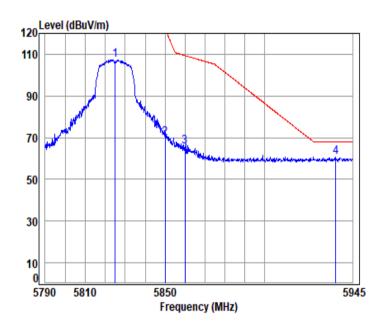


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11n_HT(20M)_TX_CH_165_Horizontal



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5825 Band edge

: 5.8G Wi-Fi 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		5825.000	10.99	33.50	30.57	93.46	107.38			peak
2		5850.000	10.95	33.60	30.56	56.02	70.01	122.20	-52.19	peak
3		5860.000	10.94	33.58	30.56	51.93	65.89	109.40	-43.51	peak
Δ	nn	5936, 368	10.86	33.57	30.53	46.70	60.60	68.20	-7.60	neak



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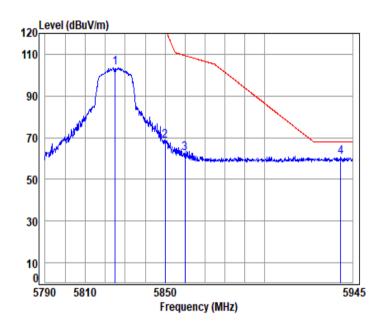


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11n_HT(20M)_TX_CH_165_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5825 Band edge

: 5.8G Wi-Fi 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	
	F00F 000	40.00	22.50	20 57	00 57	402.40			
	5825.000	10.99	33.50	30.57	89.5/	103.49			peak
	5850.000	10.95	33.60	30.56	54.49	68.48	122.20	-53.72	peak
	5860.000	10.94	33.58	30.56	48.64	62.60	109.40	-46.80	peak
nn	5938 878	10 86	33 58	30 52	46 70	60 62	68 20	_7 58	noak



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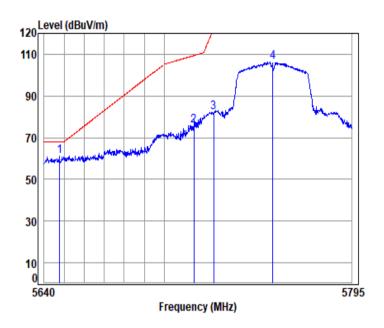


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11n_HT(40M)_TX_CH_151_Horizontal



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5755 Band edge

: 5.8G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1 pp	5647.650	10.48	33.10	30.64	48.01	60.95	68.20	-7.25	peak
2	5715.000	10.63	33.23	30.61	62.43	75.68	109.40	-33.72	peak
3	5725.000	10.68	33.25	30.61	68.80	82.12	122.20	-40.08	peak
4	5755.000	10.81	33.31	30.60	92.65	106.17			peak



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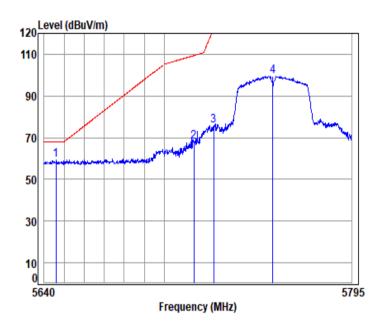


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11n_HT(40M)_TX_CH_151_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5755 Band edge

: 5.8G Wi-Fi 11n40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1 pp 5645.967 10.48 33.09 30.64 46.38 59.31 68.20 -8.89 peak 5715.000 10.63 33.23 30.61 54.70 67.95 109.40 -41.45 peak 5725.000 10.68 33.25 30.61 62.63 75.95 122.20 -46.25 peak 5755.000 10.81 33.31 30.60 86.04 99.56 ----- peak



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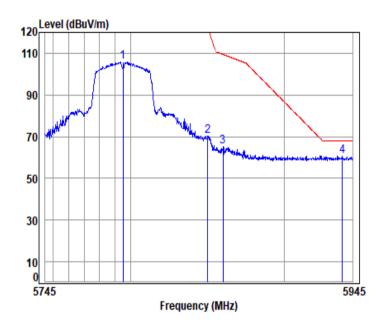


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11n_HT(40M)_TX_CH_159_Horizontal



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5795 Band edge

: 5.8G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	11.00	33.39	30.58	92.02	105.83			peak
2	5850.000	10.95	33.60	30.56	56.42	70.41	122.20	-51.79	peak
3	5860.000	10.94	33.58	30.56	51.46	65.42	109.40	-43.98	peak
1 nn	5038 200								•



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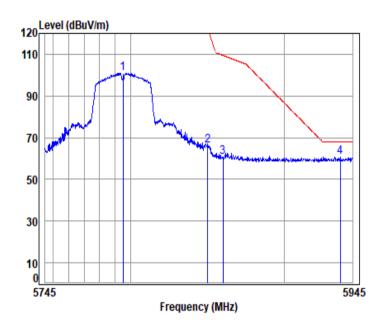


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11n_HT(40M)_TX_CH_159_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5795 Band edge

: 5.8G Wi-Fi 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	5795.000	11.00	33.39	30.58	87.17	100.98			peak
2	5850.000	10.95	33.60	30.56	51.99	65.98	122.20	-56.22	peak
3	5860.000	10.94	33.58	30.56	46.62	60.58	109.40	-48.82	peak
	nn 5036 868								-



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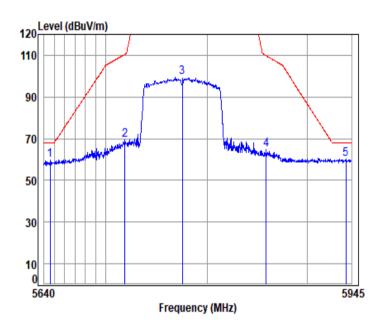


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11ac_VHT(80M)_TX_CH_155_Horizontal



Condition: 3m HORIZONTAL

: 04945WM Job No

Mode : 5775 Band edge

: 5.8G Wi-Fi 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	5645.646	10 19	22 00	20 64	46 02	E0 96	69.20	0 2/	Dook
2	5718.665	10.65	33.24	30.61	56.00	69.28	110.43	-41.15	peak
3	5775.000	10.91	33.35	30.59	85.76	99.43			peak
4	5858.900	10.94	33.58	30.56	50.71	64.67	109.71	-45.04	peak
5 pp	5939.367	10.86	33.58	30.52	46.44	60.36	68.20	-7.84	peak



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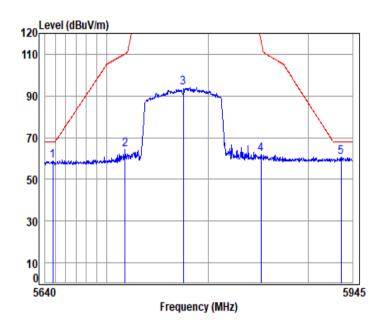


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11ac_VHT(80M)_TX_CH_155_Vertical



Condition: 3m VERTICAL Job No : 04945WM

Mode : 5775 Band edge

: 5.8G Wi-Fi 11ac80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 5647.431 10.48 33.09 30.64 45.77 58.70 68.20 -9.50 Peak 5717.761 10.64 33.24 30.61 51.06 64.33 110.17 -45.84 peak 5775.000 10.91 33.35 30.59 80.22 93.89 ----- peak 5852.424 10.95 33.60 30.56 48.20 62.19 116.67 -54.48 peak 5 pp 5933.426 10.86 33.57 30.53 46.80 60.70 68.20 -7.50 peak



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7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Atmospheric Pressure: 1020 mbar Humidity: 42.9 % RH



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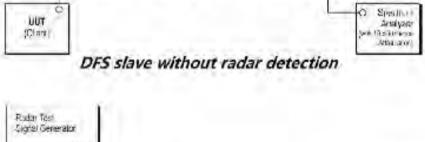
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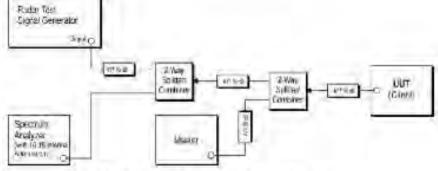
7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	13	Normal operating_Keep the EUT communication with the companion device.	

7.6.3 Test Setup Diagram







DFS slave with radar detection



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7.6.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





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7.7 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2 Test Method: ANSI C63.10 (2013) Section 12.2

7.7.1 E.U.T. Operation

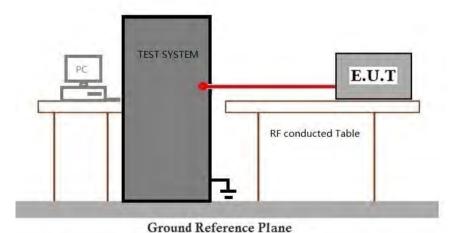
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

7.7.2 Test mode Beschption		
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2 Test Method: ANSI C63.10 (2013) Section 12.4.2

7.8.1 E.U.T. Operation

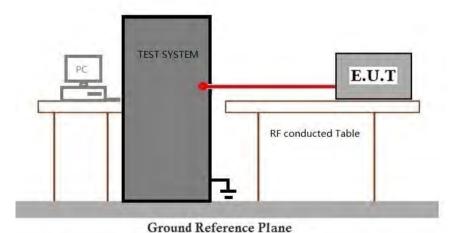
Operating Environment:

Temperature: 21.3 °C Atmospheric Pressure: 1020 mbar Humidity: 35.3 % RH

7.8.2 Test Mode Description

7.0.2 Test mode Description		
Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a) Test Method: ANSI C63.10 (2013) Section 12.4.1

7.9.1 E.U.T. Operation

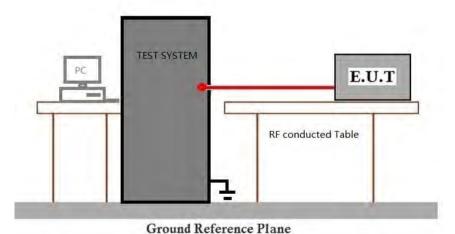
Operating Environment:

Temperature: 21.3 °C Atmospheric Pressure: 1020 mbar Humidity: 35.3 % RH

7.9.2 Test Mode Description

7.3.2 Test Mode Description			
Pre-scan / Final test	Mode Code	Description	
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e) Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.10.1 E.U.T. Operation

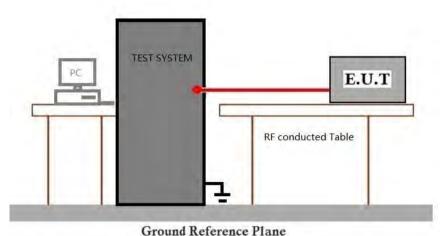
Operating Environment:

Temperature: 21.3 °C Humidity: 35.3 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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7.11 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequency band(MHz)		Limit
5150 F	250	≤17dBm in 1MHz for master device
5150-5	250	≤11dBm in 1MHz for client device
5250-5350		≤11dBm in 1MHz for client device
5470-5	725	≤11dBm in 1MHz for client device
5725-5	850	≤30dBm in 500 kHz
		power spectral density is measured as a conducted emission ection of a calibrated test instrument to the equipment under

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Atmospheric Pressure: 1020 mbar Humidity: 35.3 % RH

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	



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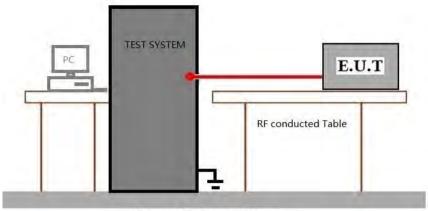
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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

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7.12 Frequency Stability

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

7.12.1 E.U.T. Operation

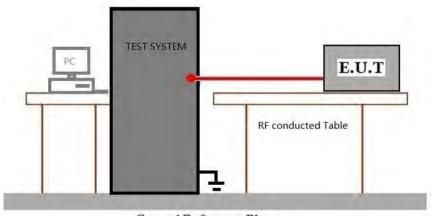
Operating Environment:

Temperature: 21.3 °C Atmospheric Pressure: 1020 mbar Humidity: 35.3 % RH

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	11	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	
Final test	12	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.	

7.12.3 Test Setup Diagram



Ground Reference Plane

7.12.4 Measurement Procedure and Data

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7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Atmospheric Pressure: 1020 mbar Humidity: 42.9 % RH



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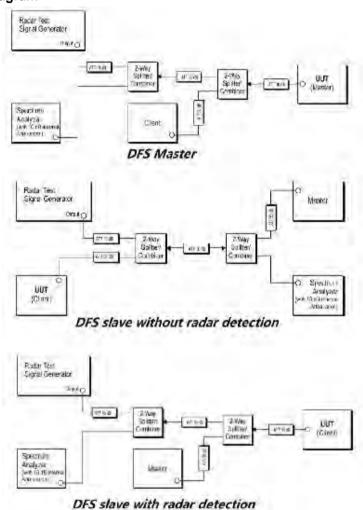
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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram





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7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability		
		Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Atmospheric Pressure: 1020 mbar Humidity: 42.9 % RH



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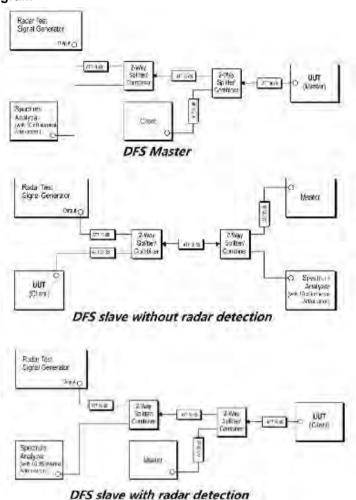
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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram





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7.14.4 Measurement Procedure and Data

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- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin. S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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Test Setup Photo 8

Please refer to SZCR2412004945 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2412004945WM.



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant22

Ant22							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	1.392	1.428	97.48	0.11	0.03
		5200	1.394	1.428	97.62	0.10	0.06
		5240	1.394	1.428	97.62	0.10	0.06
		5260	1.393	1.428	97.55	0.11	0.07
		5300	1.392	1.427	97.55	0.11	0.10
		5320	1.393	1.428	97.55	0.11	0.03
802.11a	SISO	5500	1.392	1.427	97.55	0.11	0.00
		5580	1.393	1.428	97.55	0.11	0.06
		5700	1.392	1.428	97.48	0.11	0.10
		5745	1.395	1.428	97.69	0.10	0.03
		5785	1.394	1.428	97.62	0.10	0.03
		5825	1.394	1.428	97.62	0.10	0.06
		5720	1.392	1.427	97.55	0.11	0.03
		5180	1.300	1.336	97.31	0.12	0.00
	SISO	5200	1.302	1.336	97.46	0.11	0.10
		5240	1.302	1.336	97.46	0.11	0.07
		5260	1.302	1.337	97.38	0.12	0.07
		5300	1.301	1.336	97.38	0.12	0.07
		5320	1.301	1.336	97.38	0.12	0.04
802.11n (HT20)		5500	1.300	1.335	97.38	0.12	0.00
(11120)		5580	1.300	1.335	97.38	0.12	0.03
		5700	1.300	1.335	97.38	0.12	0.04
		5745	1.302	1.336	97.46	0.11	0.03
		5785	1.302	1.336	97.46	0.11	0.03
		5825	1.302	1.336	97.46	0.11	0.03
		5720	1.301	1.336	97.38	0.12	0.07
802.11n	SISO	5190	0.650	0.683	95.17	0.22	0.03
(HT40)	3130	5230	0.649	0.682	95.16	0.22	0.03



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SISO								
Siso			5270	0.649	0.683	95.02	0.22	0.03
Siso			5310	0.648	0.683	94.88	0.23	0.07
SISO			5510	0.650	0.684	95.03	0.22	0.03
ST55 0.649 0.683 95.02 0.22 0.03			5550	0.648	0.683	94.88	0.23	0.03
ST95 0.649 0.683 95.02 0.22 0.03			5670	0.649	0.684	94.88	0.23	0.07
STO			5755	0.649	0.683	95.02	0.22	0.03
SISO			5795	0.649	0.683	95.02	0.22	0.03
SISO			5710	0.648	0.683	94.88	0.23	0.00
SISO			5180	1.313	1.348	97.40	0.11	0.04
802.11ac (VHT20) SISO 5260			5200	1.313	1.348	97.40	0.11	0.07
802.11ac (VHT20) 802.11ac (VHT80) 803.11ac (VHT80) 804.11ac (VHT80) 805.00 806.00 806.00 807.00 807.00 808.00 808.00 809.			5240	1.313	1.347	97.48	0.11	0.07
SISO			5260	1.312	1.348	97.33	0.12	0.03
SISO			5300	1.314	1.348	97.48	0.11	0.07
(VHT20)	000.44		5320	1.312	1.348	97.33	0.12	0.03
SISO		SISO	5500	1.313	1.348	97.40	0.11	0.07
802.11ac (VHT40) SISO Siso	(11120)		5580	1.312	1.347	97.40	0.11	0.03
802.11ac (VHT40) SISO Sis			5700	1.312	1.348	97.33	0.12	0.04
S825			5745	1.314	1.348	97.48	0.11	0.03
802.11ac (VHT80) SISO 5720 1.313 1.349 97.33 0.12 0.10			5785	1.314	1.348	97.48	0.11	0.07
802.11ac (VHT40) SISO			5825	1.314	1.348	97.48	0.11	0.07
802.11ac (VHT40) SISO 5230 0.653 0.687 95.05 0.22 0.03 0.07 5310 0.653 0.687 95.05 0.22 0.03 5510 0.653 0.687 95.05 0.22 0.03 5510 0.653 0.687 95.05 0.22 0.03 5550 0.653 0.687 95.05 0.22 0.04 5670 0.654 0.687 95.05 0.22 0.04 5670 0.654 0.687 95.05 0.22 0.04 5755 0.653 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.05 0.22 0.04 5710 0.653 0.687 95.05 0.22 0.04 5210 0.324 0.358 90.50 0.43 0.07 5530 0.324 0.358 90.50 0.43 0.07			5720	1.313	1.349	97.33	0.12	0.10
802.11ac (VHT40) 802.11ac (VHT80)		SISO	5190	0.653	0.687	95.05	0.22	0.04
802.11ac (VHT40) SISO SISO SISO SISO SISO SISO SISO SIS			5230	0.653	0.687	95.05	0.22	0.03
SISO			5270	0.652	0.687	94.91	0.23	0.07
(VHT40) SISO 5550 0.653 0.687 95.05 0.22 0.04 5670 0.654 0.687 95.20 0.21 0.07 5755 0.653 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.20 0.21 0.03 5710 0.653 0.687 95.05 0.22 0.04 5210 0.324 0.358 90.50 0.43 0.07 5290 0.325 0.358 90.78 0.42 0.07 5530 0.325 0.359 90.53 0.43 0.04 (VHT80) 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5310	0.653	0.687	95.05	0.22	0.03
(VH140) 5550 0.653 0.687 95.05 0.22 0.04 5670 0.654 0.687 95.20 0.21 0.07 5755 0.653 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.20 0.21 0.03 5710 0.653 0.687 95.05 0.22 0.04 5210 0.324 0.358 90.50 0.43 0.07 5290 0.325 0.358 90.78 0.42 0.07 5530 0.325 0.359 90.53 0.43 0.04 (VHT80) 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5510	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80) SISO 5755 0.653 0.687 95.05 0.22 0.03 5795 0.654 0.687 95.20 0.21 0.03 5710 0.653 0.687 95.05 0.22 0.04 5210 0.324 0.358 90.50 0.43 0.07 5290 0.325 0.358 90.78 0.42 0.07 5530 0.325 0.359 90.53 0.43 0.04 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5550	0.653	0.687	95.05	0.22	0.04
802.11ac (VHT80) SISO 5795 0.654 0.687 95.20 0.21 0.03 5710 0.653 0.687 95.05 0.22 0.04 5210 0.324 0.358 90.50 0.43 0.07 5290 0.325 0.358 90.78 0.42 0.07 5530 0.325 0.359 90.53 0.43 0.04 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5670	0.654	0.687	95.20	0.21	0.07
802.11ac (VHT80) SISO 5710 0.653 0.687 95.05 0.22 0.04 0.07 0.07 0.07 0.07 0.07 0.07 0.07			5755	0.653	0.687	95.05	0.22	0.03
802.11ac (VHT80) SISO			5795	0.654	0.687	95.20	0.21	0.03
802.11ac (VHT80) SISO 5290 0.325 0.358 90.78 0.42 0.07 5530 0.325 0.359 90.53 0.43 0.04 0.07 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5710	0.653	0.687	95.05	0.22	0.04
802.11ac (VHT80) SISO 5530 0.325 0.359 90.53 0.43 0.04 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07		SISO	5210	0.324	0.358	90.50	0.43	0.07
(VHT80) SISO 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5290	0.325	0.358	90.78	0.42	0.07
(VHT80) SISO 5610 0.324 0.358 90.50 0.43 0.07 5775 0.324 0.358 90.50 0.43 0.07			5530	0.325	0.359	90.53	0.43	0.04
			5610	0.324	0.358	90.50	0.43	0.07
5690 0.325 0.359 90.53 0.43 0.11			5775	0.324	0.358	90.50	0.43	0.07
			5690	0.325	0.359	90.53	0.43	0.11



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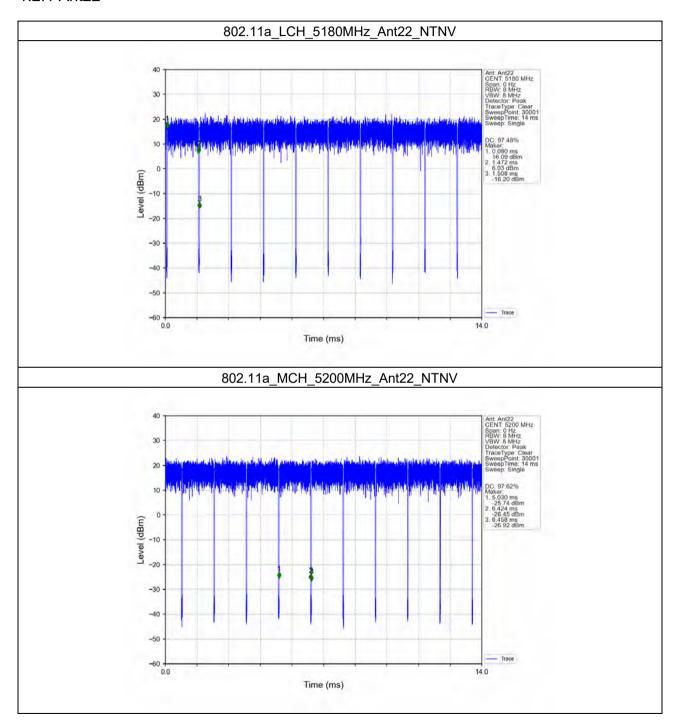


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1.2 Test Graph

1.2.1 Ant22





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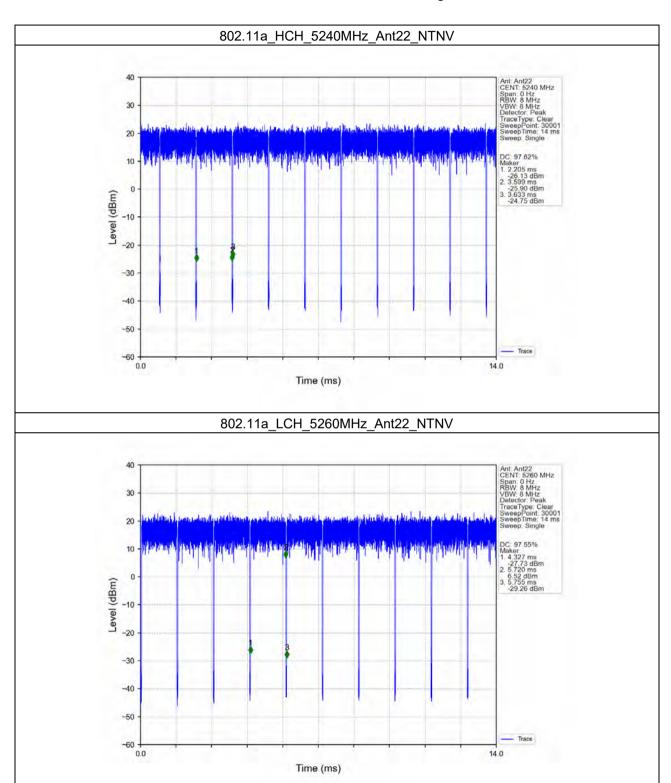
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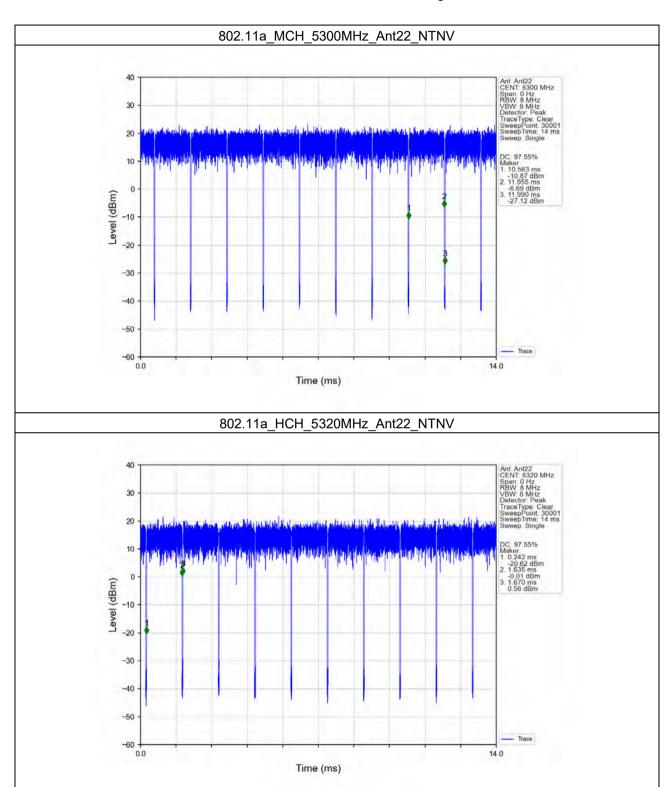
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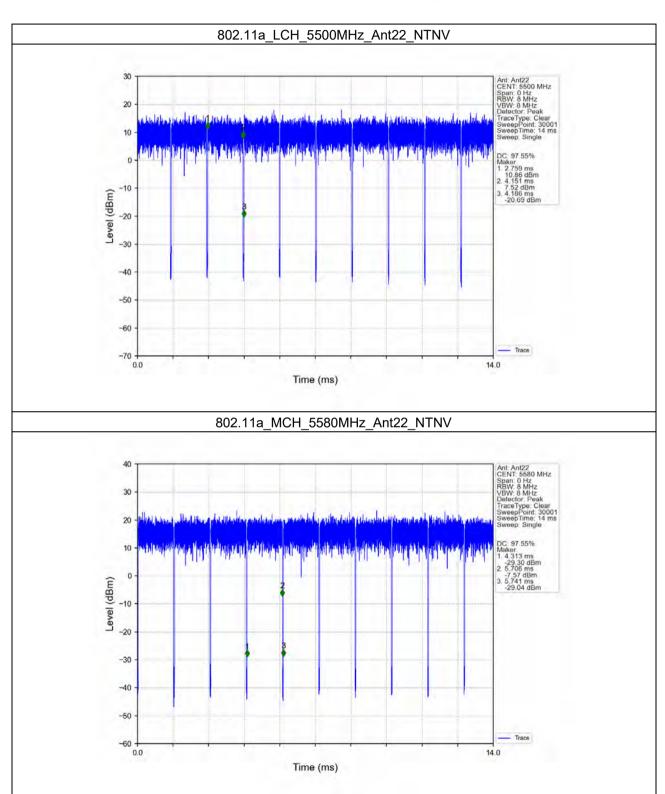
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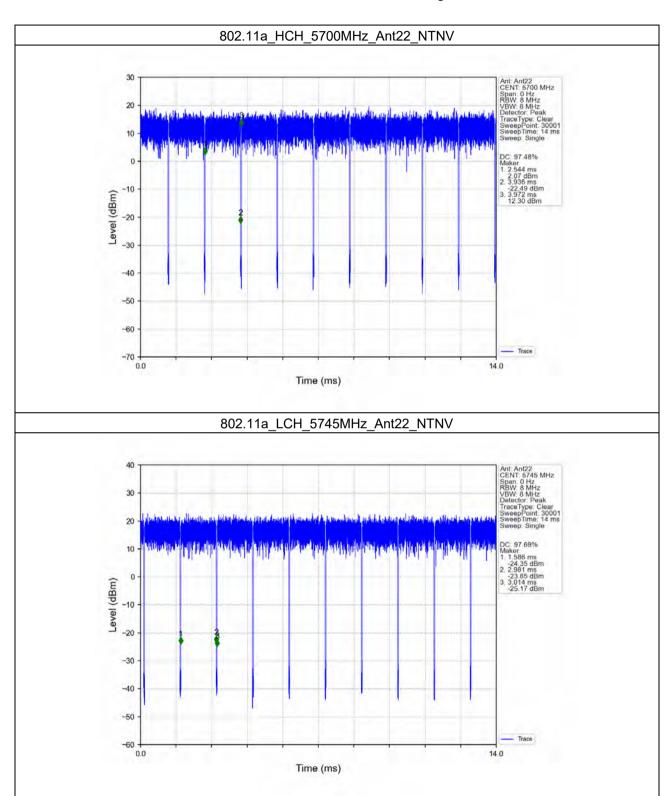
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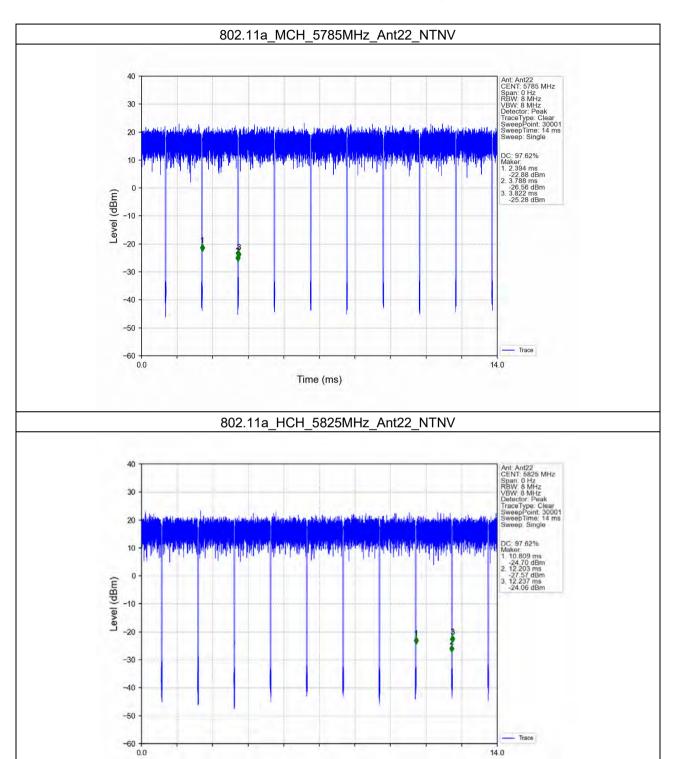
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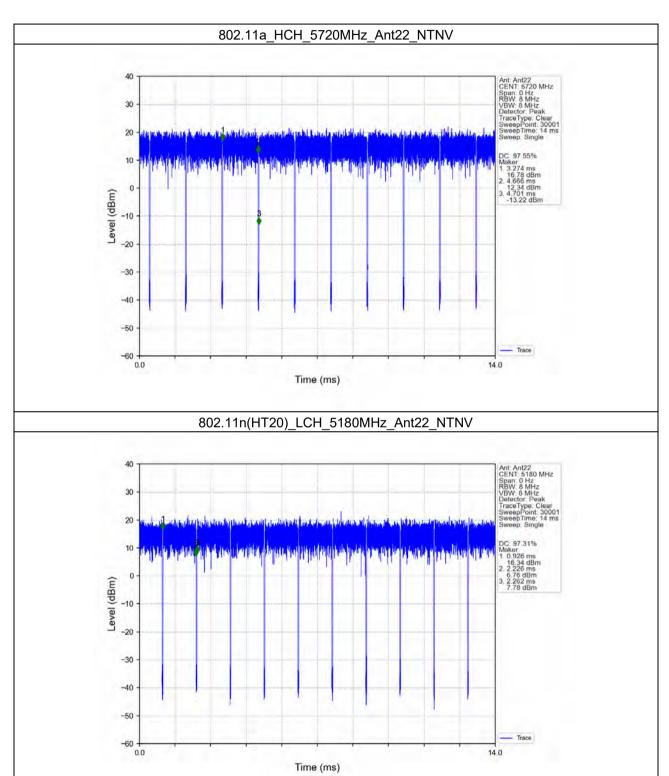
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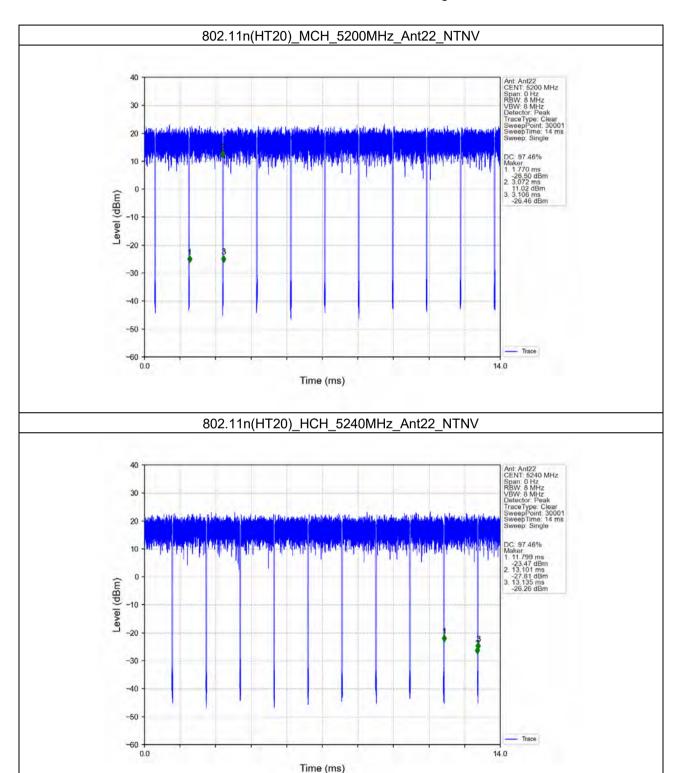
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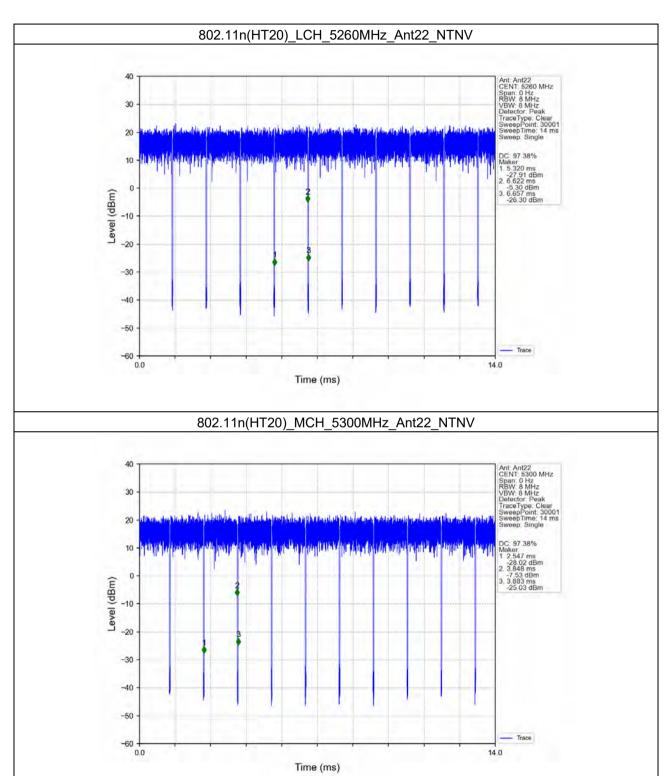
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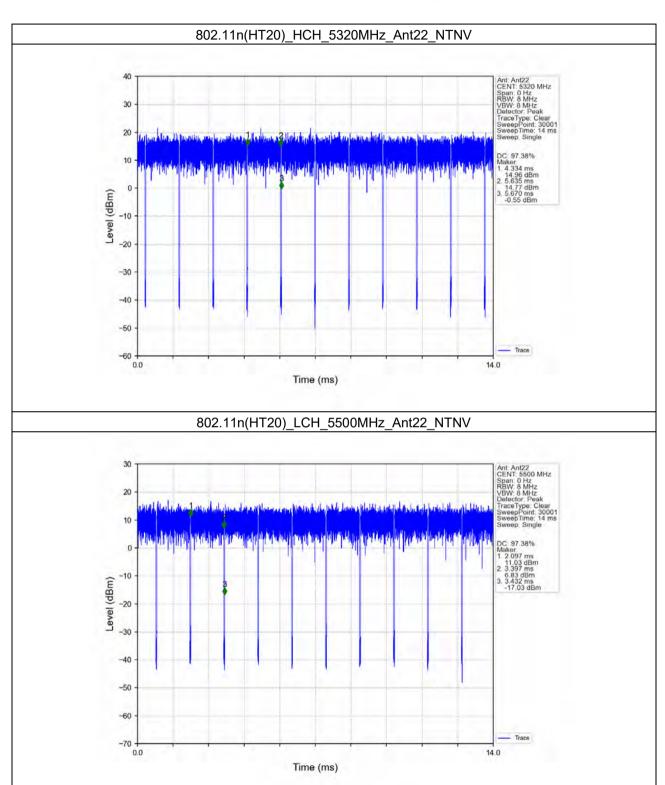
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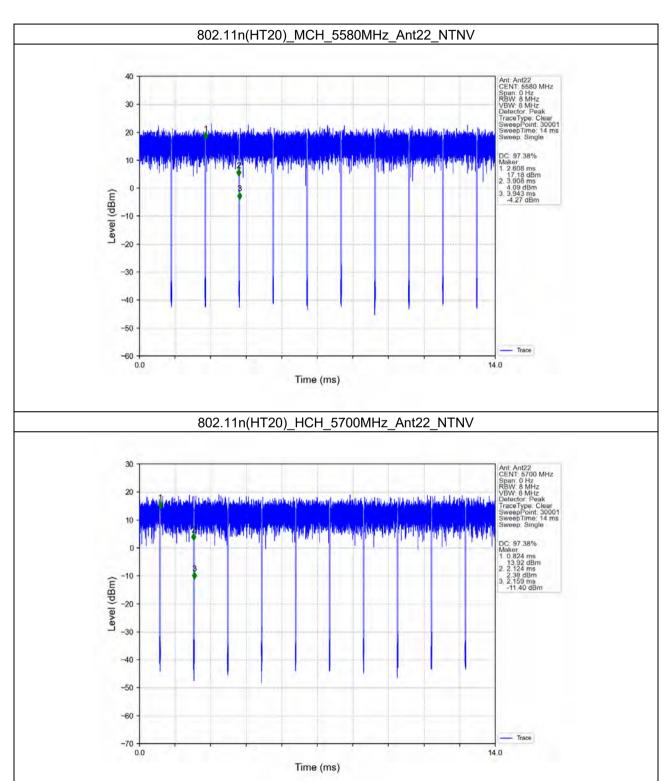
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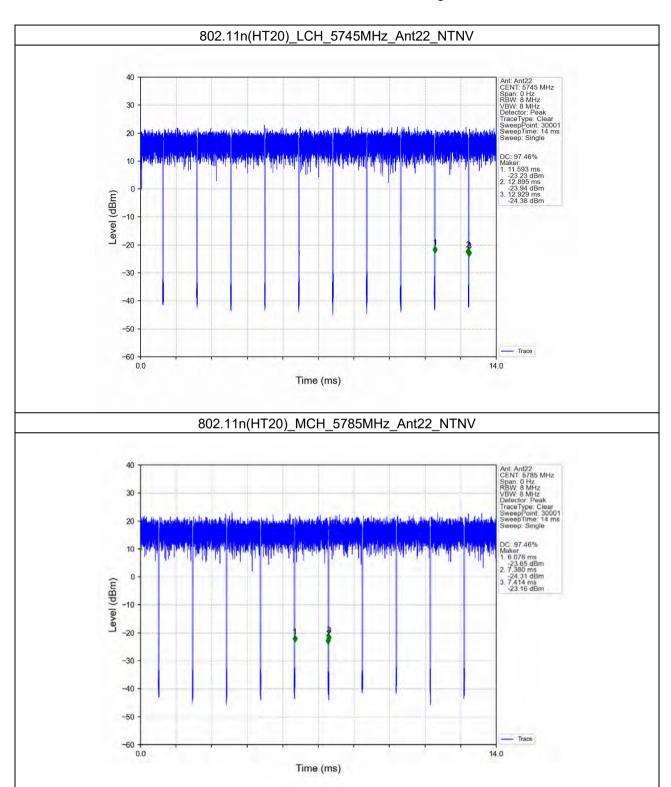
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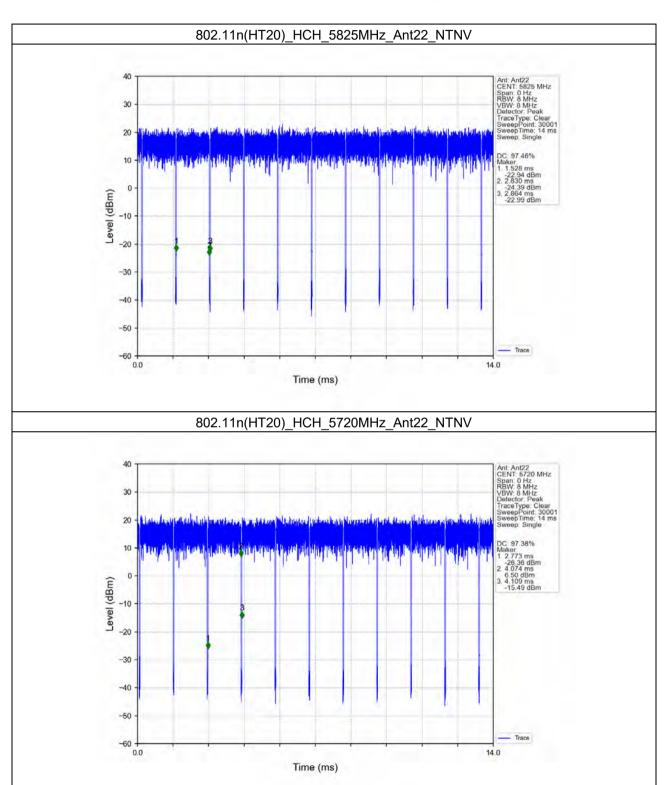
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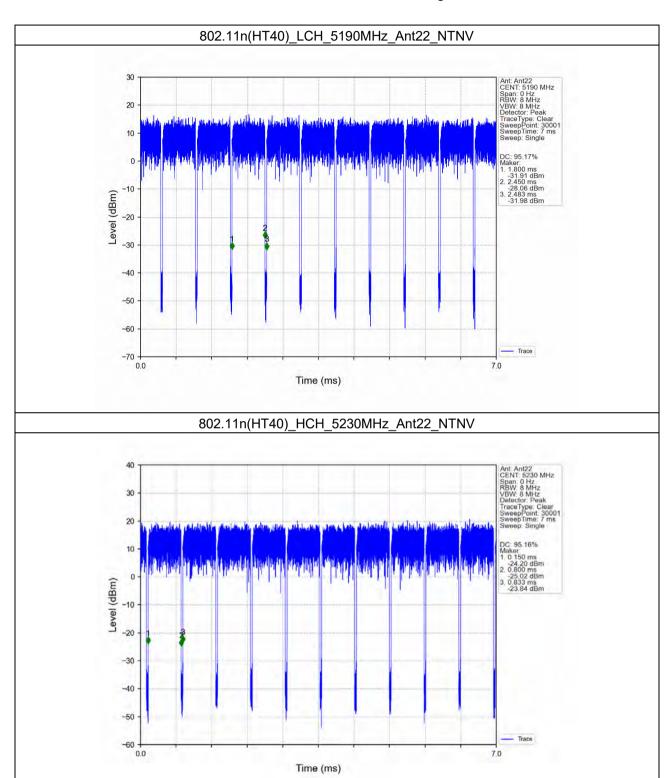
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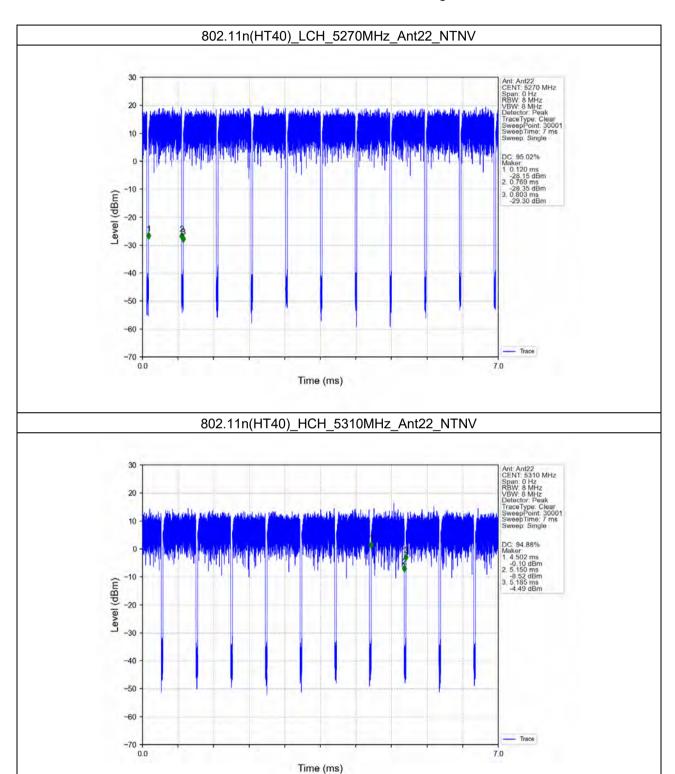
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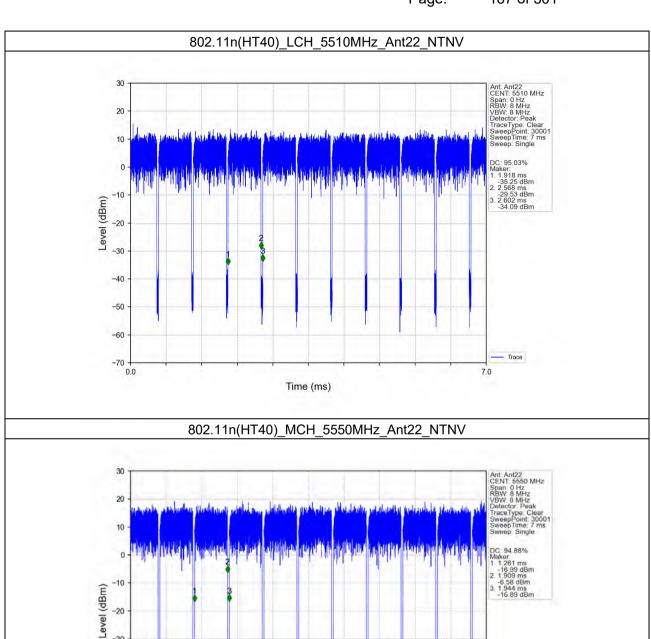
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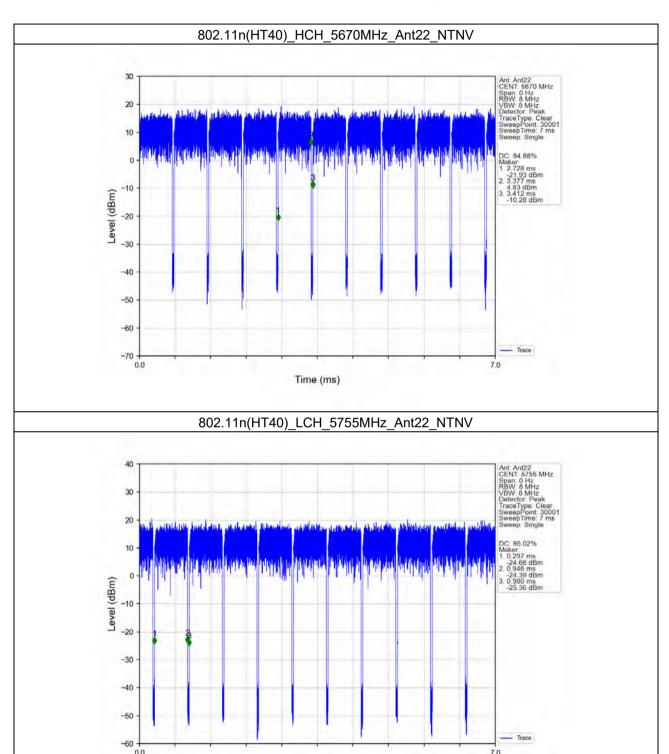
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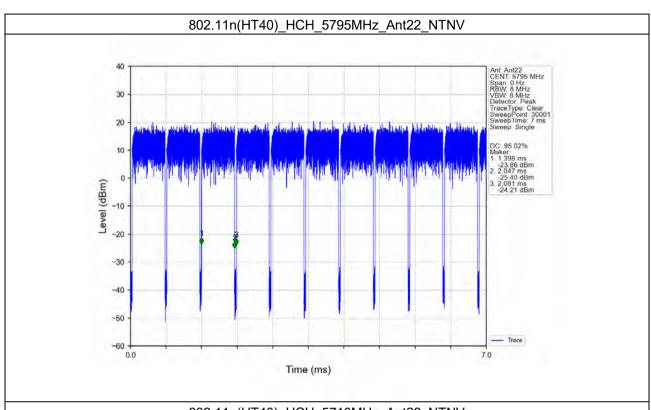
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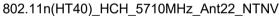


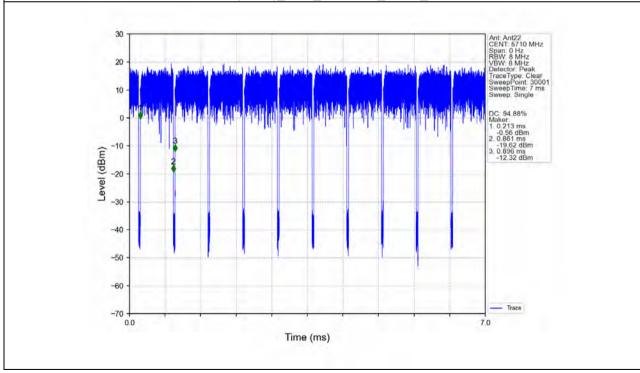
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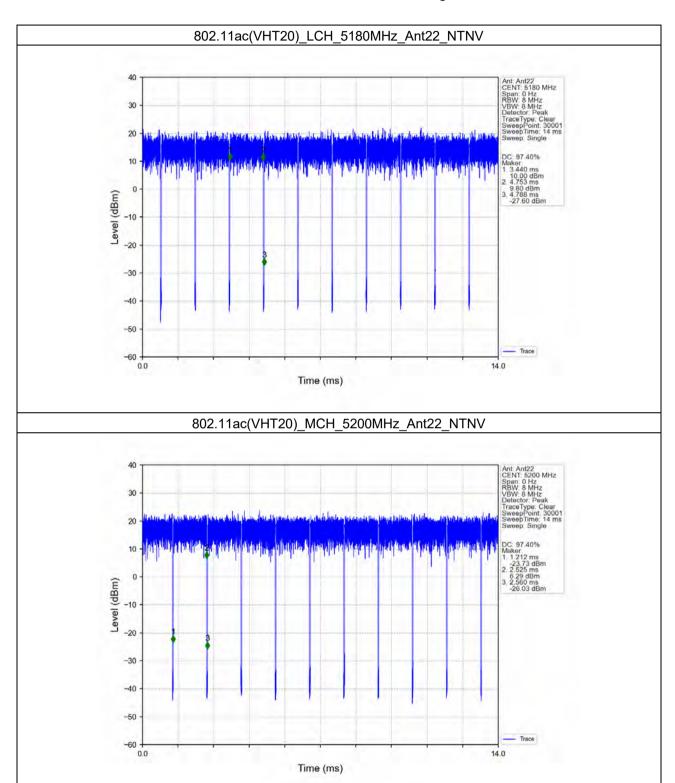
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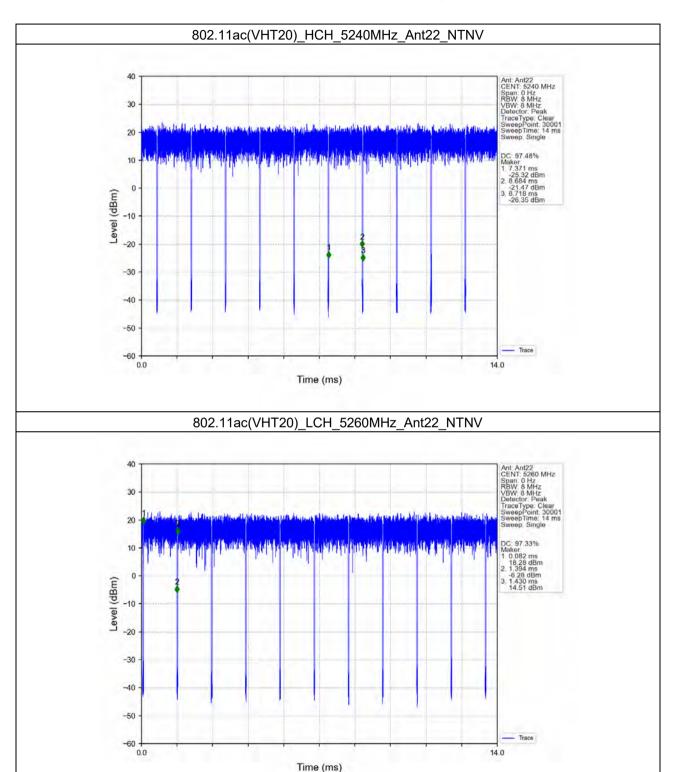
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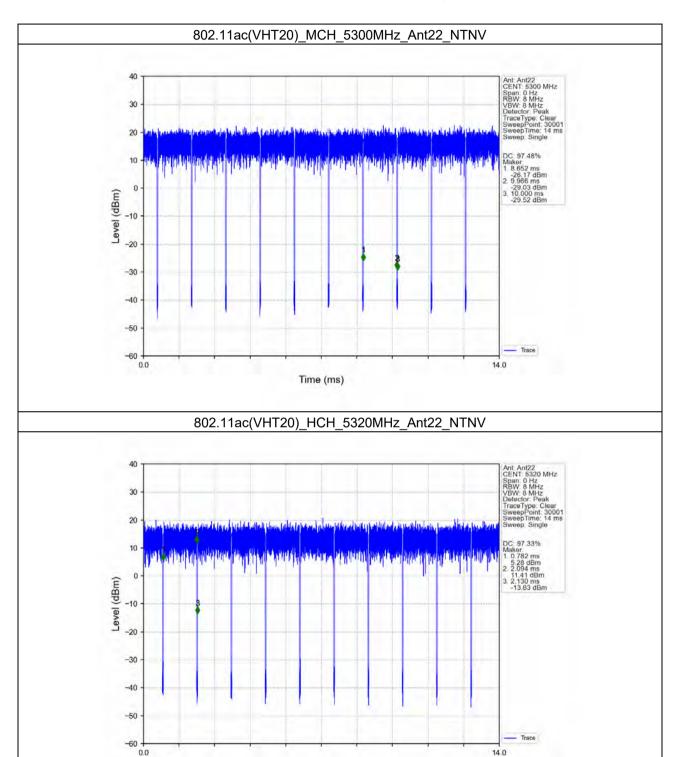
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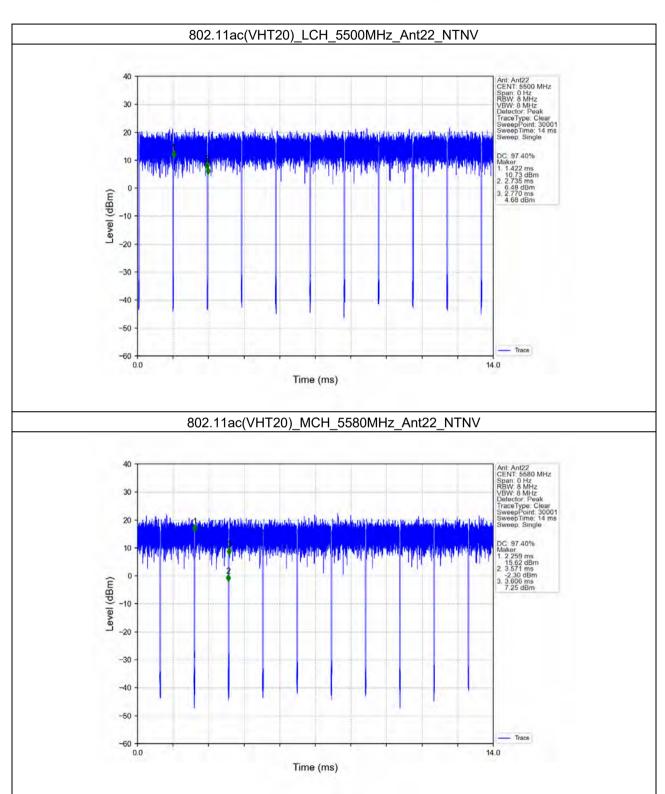
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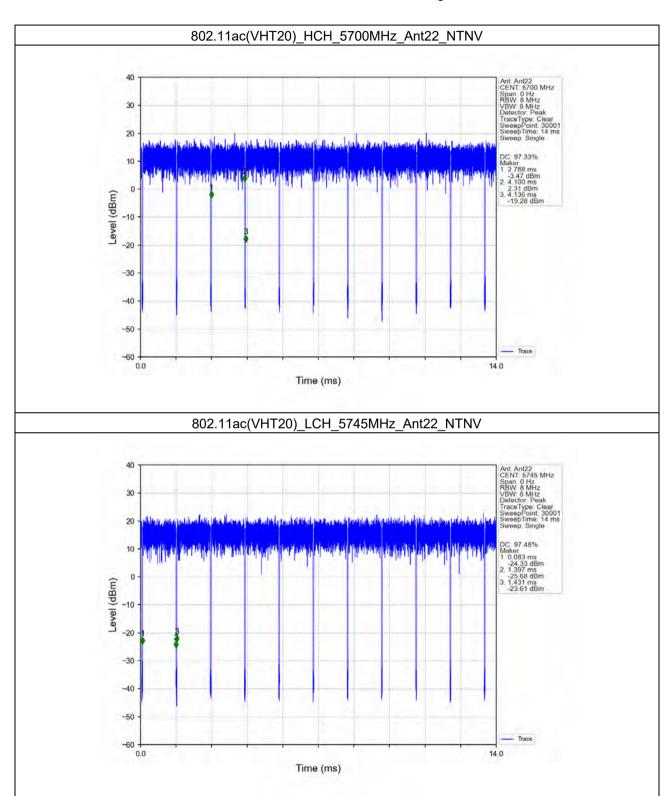
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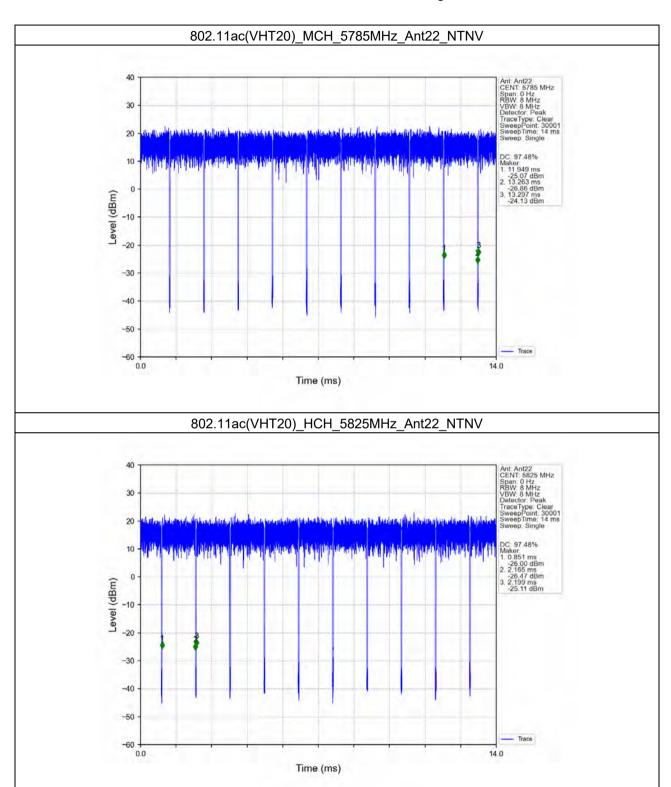
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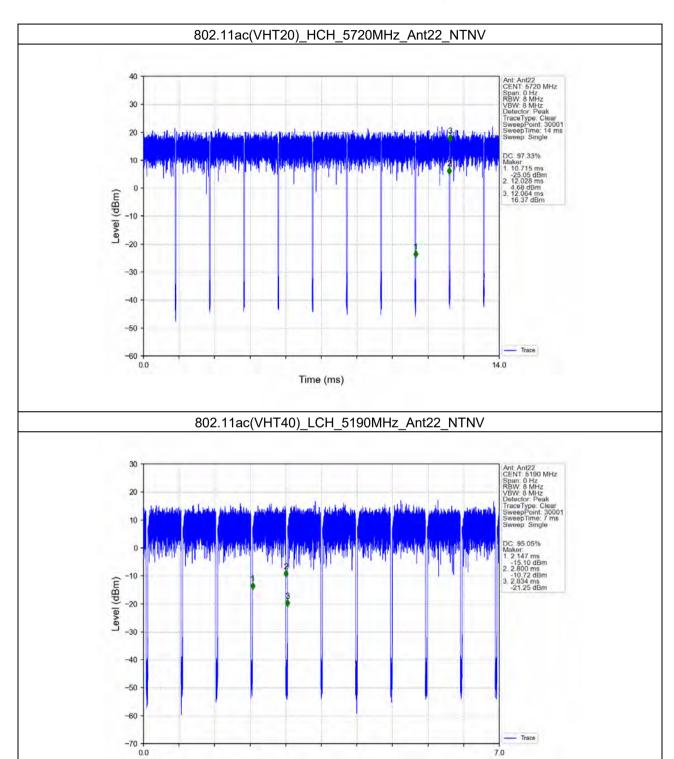
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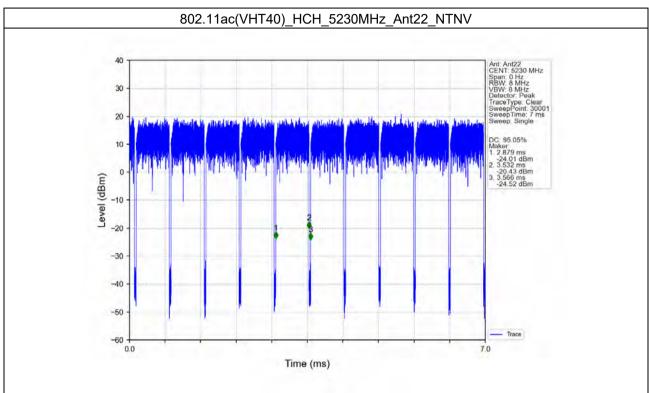
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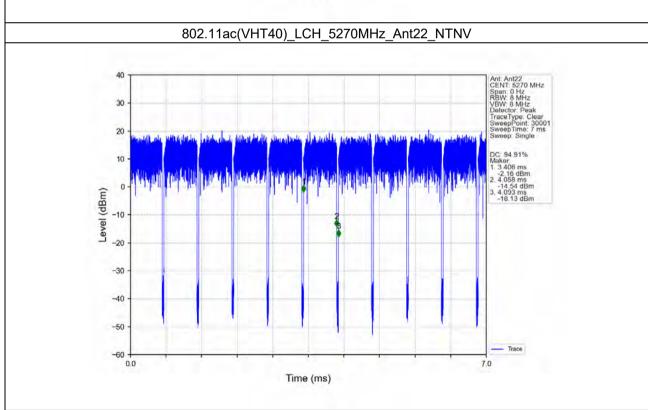


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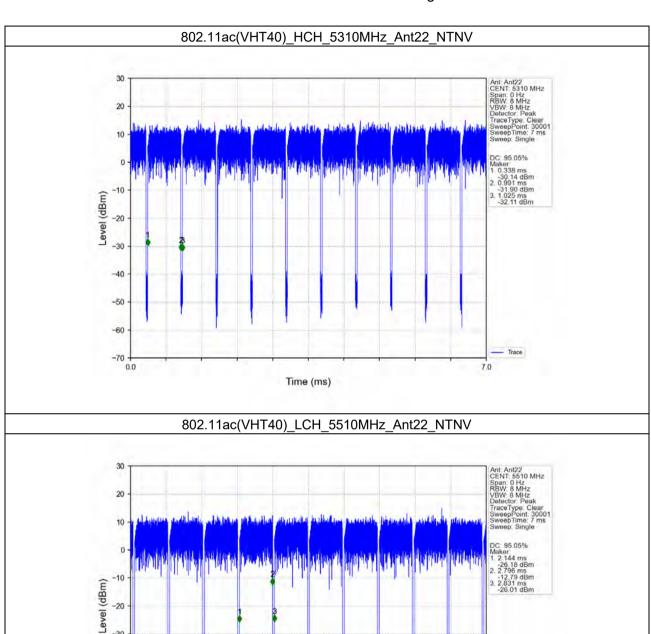
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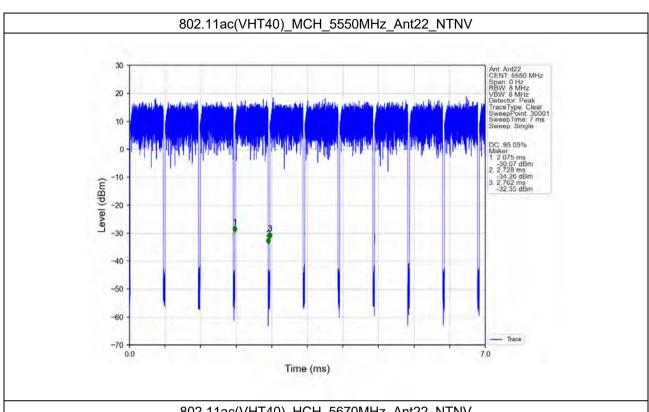
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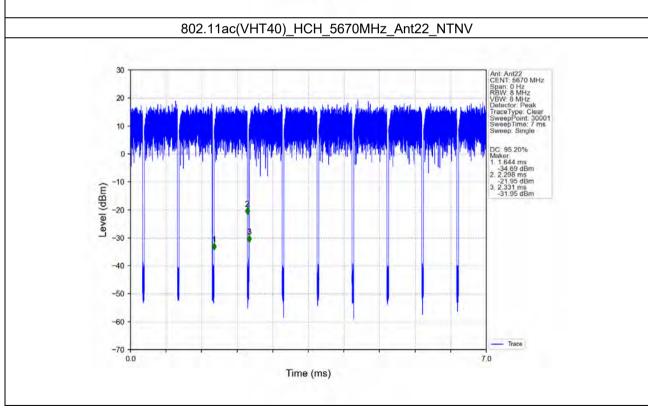


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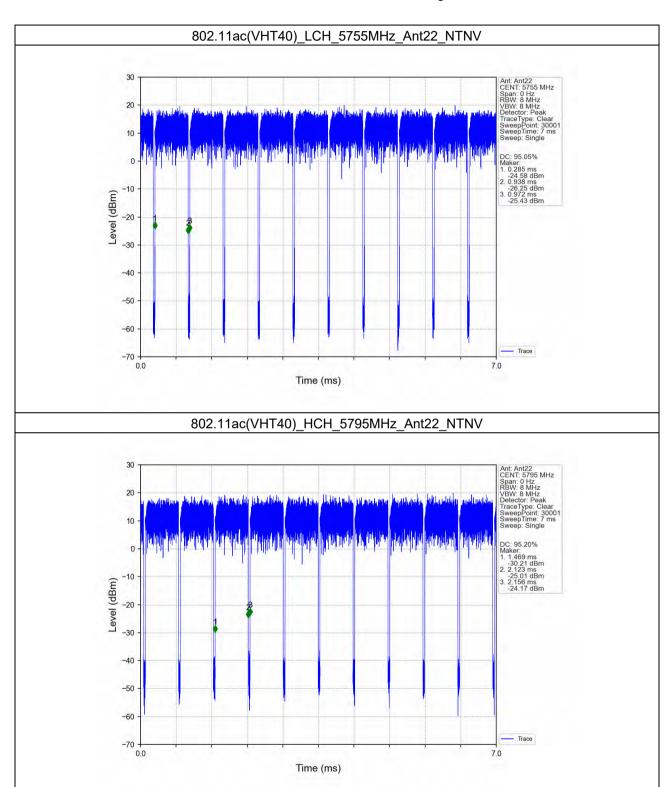
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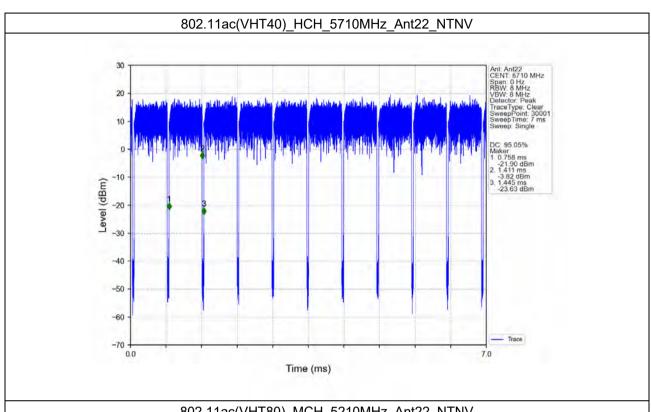
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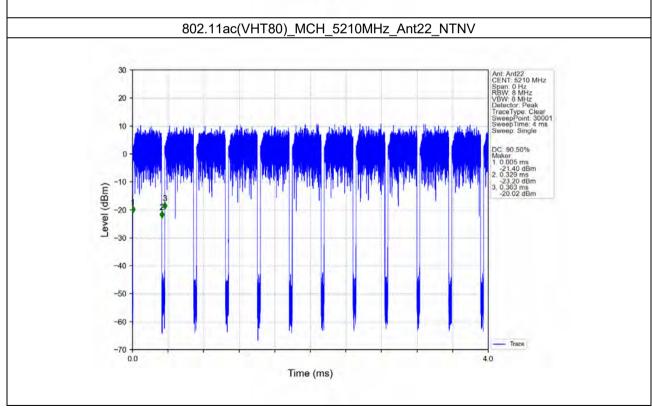


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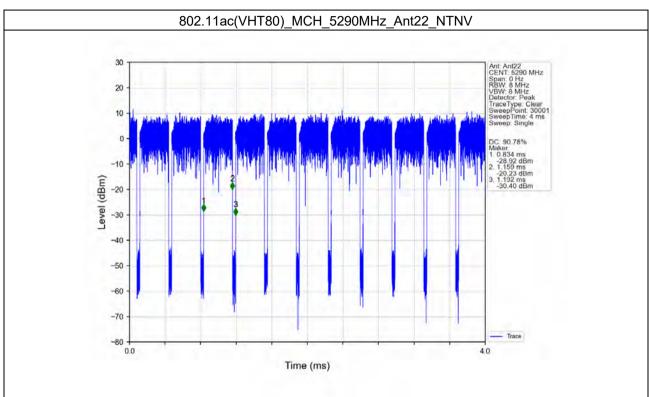
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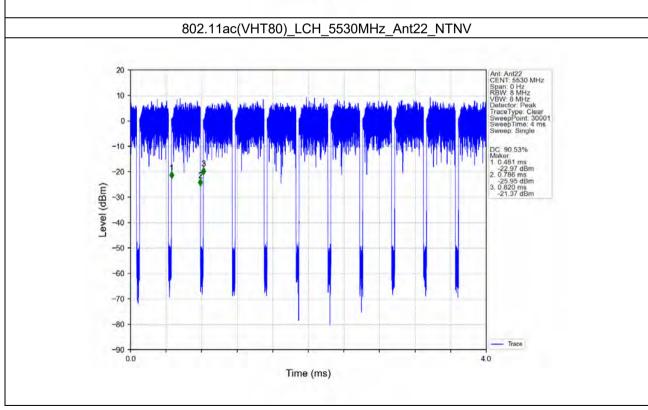


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