

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250400155405

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TEST REPORT

Application No.: SZCR2504001554WM

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District, Beijing,

China. 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District, Beijing,

China, 100085

Equipment Under Test (EUT):

EUT Description: Mobile Phone 25069PTEBG Model No.:

Trade Mark: Xiaomi

FCC ID: 2AFZZPTEBG

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2025-04-29

2025-05-06 to 2025-06-05 Date of Test:

Date of Issue: 2025-06-16

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	Version Chapter Date Modifier Remark						
01		2025-06-16		Original			

Authorized for issue by:			
	Levin lan		
	Kevin Lan/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, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass			

Radio Spectrum Matter Part							
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	Pass			
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious Emissions Above 1GHz	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Conducted Peak Output Power	Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass			
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass			
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass			
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass			
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass			



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General Information 4

Details of E.U.T. 4.1

EUT Description:	Mobile Phone	Mobile Phone			
Model No.:	25069PTEBG				
Trade Mark:	Xiaomi				
Hardware Version:	1351P2405				
Software Version:	Xiaomi Hyper	rOS 2.0			
Power Supply:	3.93V from in	ternal rechargeable batte	ry which can be charged by adapter.		
0 4 5	802.11b/g/n(I	HT20)/ax(HE20):	2412MHz to 2462MHz		
Operation Frequency:	802.11n(HT4	0)/ax(HE40):	2422MHz to 2452MHz		
	802.11b:	DSSS (DBPSK, DQPSk	K, CCK)		
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 1	6QAM, 64QAM)		
Woodilation Type.	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11				
Number of Channels:	802.11n(HT40)/ax(HE40): 7				
Channel Spacing:	5MHz	5MHz			
	⊠ siso	802.11b/g/n/ax			
Smart System:	⊠ MIMO	802.11g/n/ax: 2Tx & 2Rx			
	□ Diversity	CDD: 802.11g: 2Tx &	2Rx		
Antenna Type:	Fixed Interna	l Antenna			
	-2.18dBi(Ant16); -1.19dBi(Ant8);				
Antenna Gain:	Note:				
	The antenna gain are derived from the gain information report provided by the manufacturer.				
RF Cable:	2000MHz ~ 3000MHz (1.1dB)				
Remark:					



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4.2 Environment Parameter

Environment Parameter		1020 mbar Selected Values During Tests		
Relative Humidity		40-59.4 % RH Ambient		
Value		Temperature(°C) Voltage(V)		Voltage(V)
NTNV		22.2~24.5		3.93
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	rature HT:High Extreme Test Temperature	

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
The EUT has been tested as an independent unit.						

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

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

4.8 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Chielding Doom	ZhangVu Elastran	CB 00	B-88 SEM001-06	2022-05-14	2025-05-13		
Shielding Room	ZhongYu Electron	GD-00		2025-05-07	2028-05-06		
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2025-01-08	2026-01-07		
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	2025-03-03	2026-03-02		

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		
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 Spurious Emis	adiated Spurious 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	2025-03-04	2026-03-03				
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 Spurious Emis	ssions 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	SUBWAR/BEUN		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

RF Conducted Test	F Conducted Test							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03			
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03			
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13			
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03			
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	2025-03-03	2026-03-02			

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	2025-03-03	2026-03-02	



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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 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Fixed Internal Antenna and no consideration of replacement. The best case gain of the antenna is -2.18dBi(Ant16); -1.19dBi(Ant8).

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results

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

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

Limit:

Francisco (MIII-)	Conducted limit(dBμV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz	resolution bandwidth) 0.15M to 30	DMHz			

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Atmospheric Pressure: 1020 mbar Humidity: 44.5 % RH

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.



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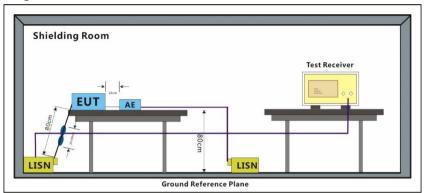
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7.1.3 Test Setup Diagram



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/50uH + 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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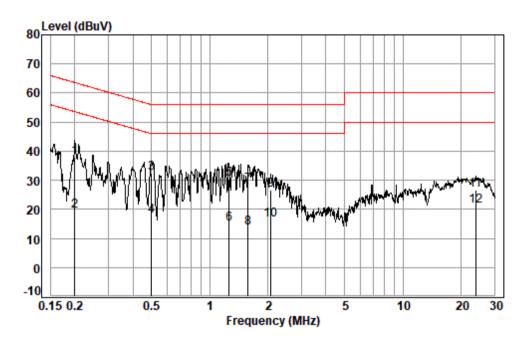


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Test Mode: 08: Line: Live line



: Shielding Room

Condition: Line Job No. : 01554WM

Test mode: 08

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.2007	0.06	10.12	27.84	38.02	63.58	-25.56	QP
2		0.2007	0.06	10.12	9.42	19.60	53.58	-33.98	Average
3	*	0.4994	0.08	9.54	22.97	32.59	56.01	-23.42	QP
4	*	0.4994	0.08	9.54	8.05	17.67	46.01	-28.34	Average
5		1.2621	0.09	9.58	20.56	30.23	56.00	-25.77	QP
6		1.2621	0.09	9.58	5.33	15.00	46.00	-31.00	Average
7		1.5851	0.10	9.58	18.79	28.47	56.00	-27.53	QP
8		1.5851	0.10	9.58	4.06	13.74	46.00	-32.26	Average
9		2.0768	0.10	9.59	16.84	26.53	56.00	-29.47	QP
10		2.0768	0.10	9.59	6.83	16.52	46.00	-29.48	Average
11		23.8878	0.33	10.26	16.15	26.74	60.00	-33.26	QP
12		23.8878	0.33	10.26	10.64	21.23	50.00	-28.77	Average

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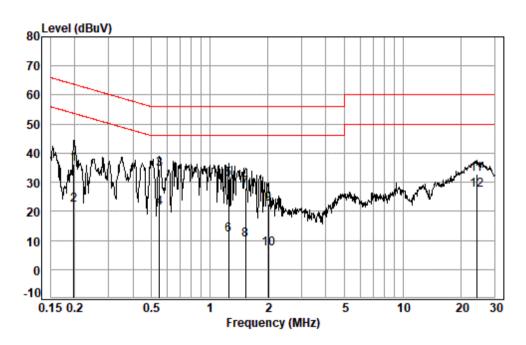


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Test Mode: 08: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01554WM

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1976	0.06	10.08	25.96	36.10	63.71	-27.61	QP
2	0.1976	0.06	10.08	11.88	22.02	53.71	-31.69	Average
3 *	0.5493	0.08	9.69	24.64	34.41	56.00	-21.59	QP
4	0.5493	0.08	9.69	11.49	21.26	46.00	-24.74	Average
5	1.2555	0.09	9.54	21.44	31.07	56.00	-24.93	QP
6	1.2555	0.09	9.54	2.11	11.74	46.00	-34.26	Average
7	1.5355	0.10	9.55	18.28	27.93	56.00	-28.07	QP
8	1.5355	0.10	9.55	0.64	10.29	46.00	-35.71	Average
9	2.0119	0.10	9.55	12.74	22.39	56.00	-33.61	QP
10	2.0119	0.10	9.55	-2.71	6.94	46.00	-39.06	Average
11	24.1423	0.33	10.39	22.10	32.82	60.00	-27.18	QP
12 *	24.1423	0.33	10.39	16.42	27.14	50.00	-22.86	Average



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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		

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.

7.2.1 E.U.T. Operation

Operating Environment:

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

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.



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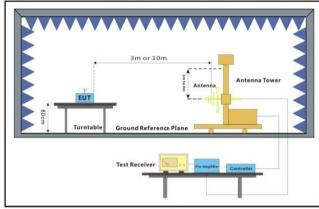


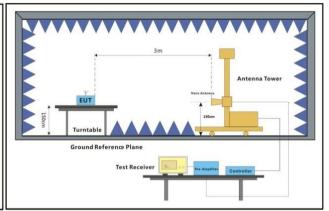
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7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.2.4 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 highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: 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.
- Remark 3: 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 4: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.

k. All the antennas are tested and only the worst data is presented.



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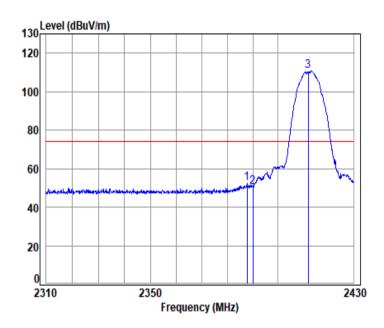


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11b_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11b

		Freq					Level			Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		2387.791	6.82	27.45	31.54	49.46	52.19	74.00	-21.81	peak	
2		2390.000	6.82	27.46	31.54	47.79	50.53	74.00	-23.47	peak	
3	nn	2412.000	6.91	27.52	31.54	107.69	110.58	74.00	36.58	neak	



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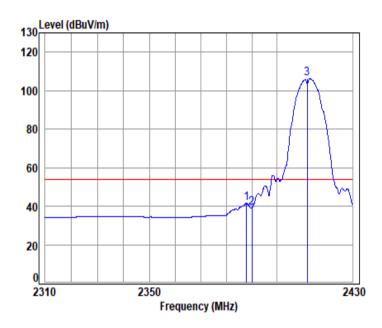


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11b_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1

Mode : 2412 Band edge

· 2 /G Wi-Fi 11h

	. 2.4	G MT I	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		
L	2387.912	6.82	27.45	31.54	38.75	41.48	54.00	-12.52	Average	
2	2390.000	6.82	27.46	31.54	36.34	39.08	54.00	-14.92	Average	
3	pp 2412.000	6.91	27.52	31.54	103.26	106.15	54.00	52.15	Average	



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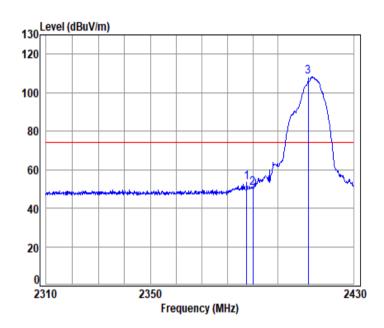


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11b_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11b

		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	2387.670	6.82	27.45	31.54	50.79	53.52	74.00	-20.48	peak	
2	2390.000	6.82	27.46	31.54	47.60	50.34	74.00	-23.66	peak	
3 nn	2412.000	6.91	27.52	31.54	105.14	108.03	74.00	34.03	neak	



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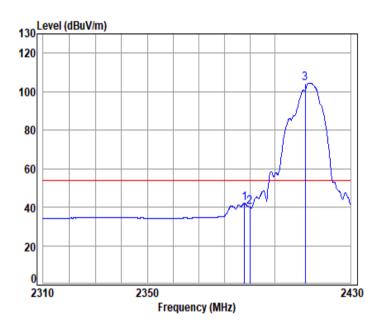


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11b_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11b

		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		
	2387.912	6.82	27.45	31.54	39.21	41.94	54.00	-12.06	Average	
	2390.000	6.82	27.46	31.54	37.18	39.92	54.00	-14.08	Average	
nn	2412.000	6.91	27.52	31.54	101.64	104.53	54.00	50.53	Average	



1 2

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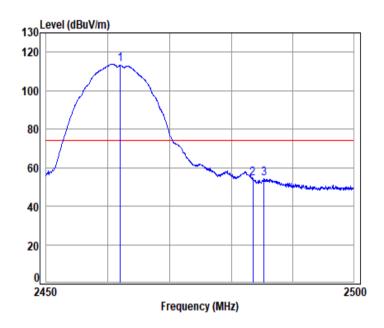


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11b_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11b

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	110.30	113.67	74.00	39.67	peak
2	2483.500	7.40	27.80	31.55	50.90	54.55	74.00	-19.45	peak
3	2485.346	7.41	27.81	31.55	50.80	54.47	74.00	-19.53	peak



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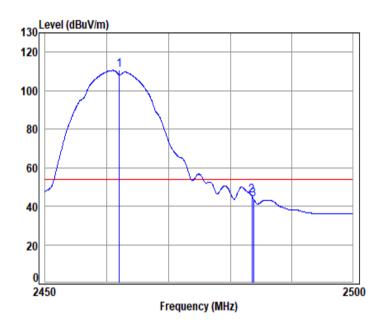


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11b_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1 2 3

Mode : 2462 Band edge

: 2.4G Wi-Fi 11b

	Freq					Level			Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
l pp	2462.000	7.25	27.67	31.55	107.12	110.49	54.00	56.49	Average	
2	2483.500	7.40	27.80	31.55	41.73	45.38	54.00	-8.62	Average	
3	2483.790	7.40	27.80	31.55	40.09	43.74	54.00	-10.26	Average	



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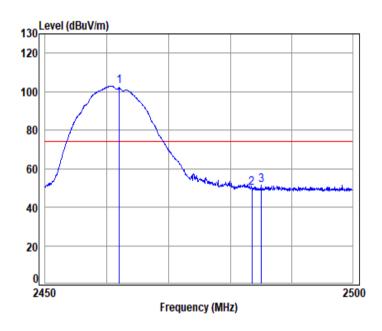


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11b_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11b

Read Limit Cable Ant Preamp 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 99.44 102.81 74.00 28.81 peak 2483.500 7.40 27.80 31.55 46.24 49.89 74.00 -24.11 peak 7.41 27.81 31.55 47.81 51.48 74.00 -22.52 peak 2485.044



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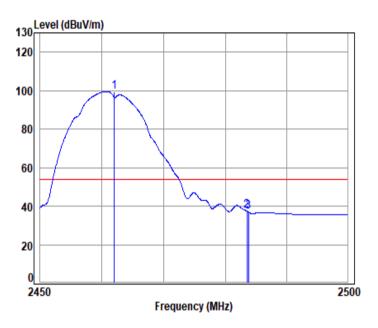


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11b_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11b

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	96.13	99.50	54.00	45.50	Average
2	2483.500	7.40	27.80	31.55	33.82	37.47	54.00	-16.53	Average
3	2483.790	7.40	27.80	31.55	33.18	36.83	54.00	-17.17	Average



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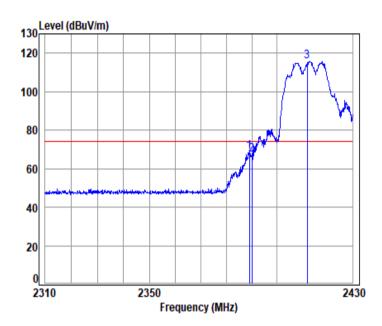


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11g_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.000	6.82	27.46	31.54	65.81	68.55	74.00	-5.45	peak
2	2390.000	6.82	27.46	31.54	64.52	67.26	74.00	-6.74	peak
3 pp	2412.000	6.91	27.52	31.54	112.78	115.67	74.00	41.67	peak



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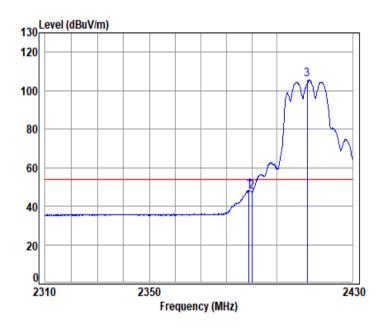


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11g_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1 2

Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

		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		
	2388.879	6.82	27.46	31.54	45.55	48.29	54.00	-5.71	Average	
	2390.000	6.82	27.46	31.54	44.83	47.57	54.00	-6.43	Average	
nn	2412.000	6.91	27.52	31.54	102.65	105.54	54.00	51.54	Average	



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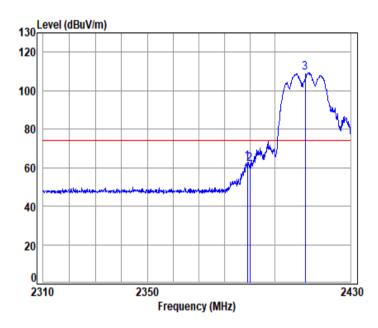


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11g_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

		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		
	2389.121	6.82	27.46	31.54	59.95	62.69	74.00	-11.31	peak	
	2390.000	6.82	27.46	31.54	59.25	61.99	74.00	-12.01	peak	
nn	2412.000	6.91	27.52	31.54	106.45	109.34	74.00	35.34	neak	



1 2

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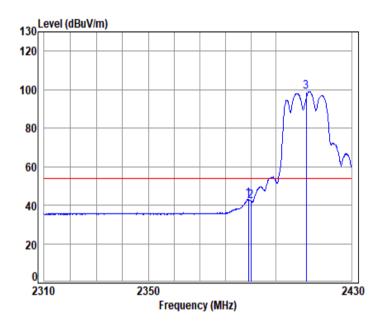


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11g_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11g

Cable Limit Ant Preamp Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.121 6.82 27.46 31.54 40.25 42.99 54.00 -11.01 Average 2390.000 6.82 27.46 31.54 39.31 42.05 54.00 -11.95 Average 6.91 27.52 31.54 96.07 98.96 54.00 44.96 Average 3 pp 2412.000



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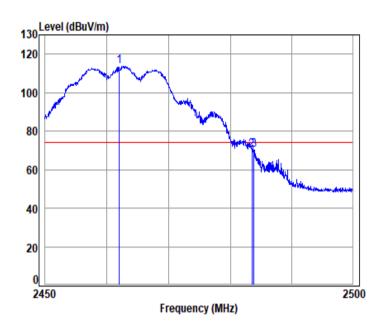


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11g_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

		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	2462.000	7.25	27.67	31.55	110.17	113.54	74.00	39.54	peak
2	2483.500	7.40	27.80	31.55	66.33	69.98	74.00	-4.02	peak
3	2483.840	7.40	27.80	31.55	66.50	70.15	74.00	-3.85	neak



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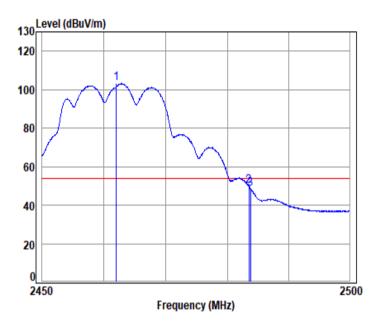


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11g_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1 2 3

Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	2462.000 2483.500								_
	2483.790								_



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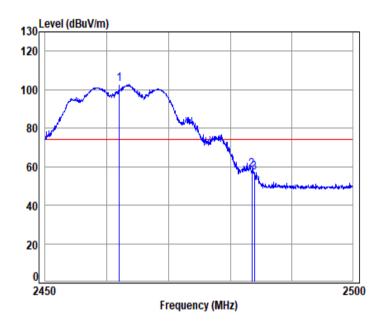


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11g_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

		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		
pp	2462.000	7.25	27.67	31.55	99.28	102.65	74.00	28.65	peak	
	2483.500	7.40	27.80	31.55	54.67	58.32	74.00	-15.68	peak	
	2483.940	7.40	27.80	31.55	53.37	57.02	74.00	-16.98	neak	



1 2 3

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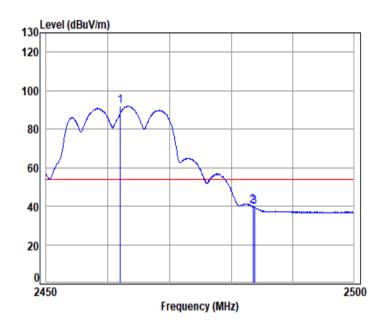


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11g_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11g

	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 2462.000	7 25	27 67	31 55	88 49	91 86	54 00	37 86	Average
1 pp 2402.000	1.23	27.07	31.33	00.45	J1.00	34.00	37.00	Average
2 2483.500	7.40	27.80	31.55	36.14	39.79	54.00	-14.21	Average
3 2483.790	7.40	27.80	31.55	35.82	39.47	54.00	-14.53	Average



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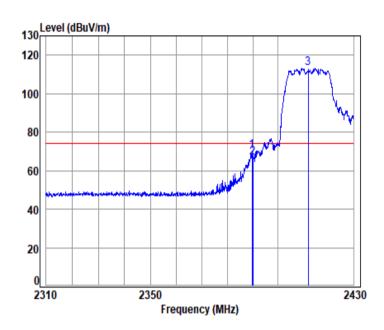


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11n_HT(20M)_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.726 6.82 27.46 31.54 67.68 70.42 74.00 -3.58 peak 2390.000 6.82 27.46 31.54 64.06 66.80 74.00 -7.20 peak 6.91 27.52 31.54 110.37 113.26 74.00 39.26 peak 3 pp 2412.000



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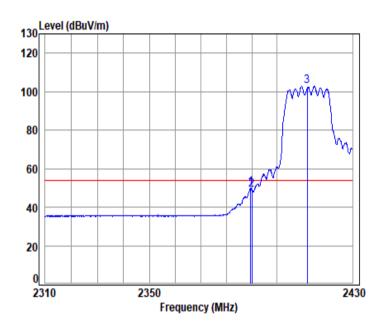


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11n_HT(20M)_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20 MIMO

		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		
	2389.605	6.82	27.46	31.54	47.06	49.80	54.00	-4.20	Average	
	2390.000	6.82	27.46	31.54	46.28	49.02	54.00	-4.98	Average	
nn	2412 000	6.91	27.52	31.54	99 84	102.73	54 00	48 73	Average	



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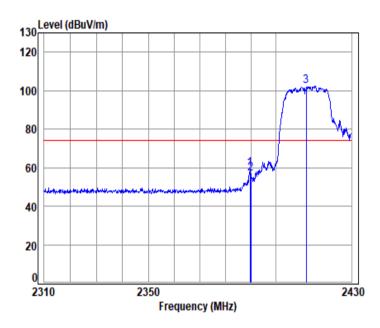


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11n_HT(20M)_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.726 6.82 27.46 31.54 56.34 59.08 74.00 -14.92 peak 2390.000 6.82 27.46 31.54 54.16 56.90 74.00 -17.10 peak 6.91 27.52 31.54 99.35 102.24 74.00 28.24 peak 3 pp 2412.000



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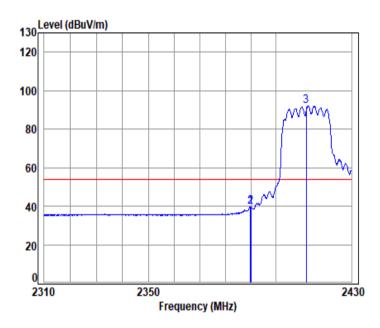


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11n_HT(20M)_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.847 6.82 27.46 31.54 36.80 39.54 54.00 -14.46 Average 2390.000 6.82 27.46 31.54 36.69 39.43 54.00 -14.57 Average 6.91 27.52 31.54 89.20 92.09 54.00 38.09 Average 3 pp 2412.000



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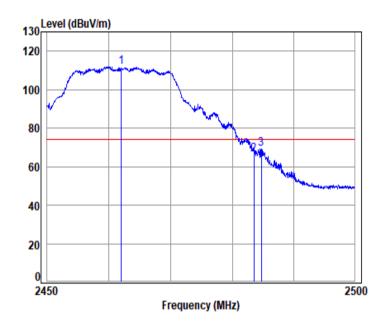


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11n_HT(20M)_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

2484.743

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 108.38 111.75 74.00 37.75 peak 2483.500 7.40 27.80 31.55 62.50 66.15 74.00 -7.85 peak

7.41 27.81 31.55 65.76 69.43 74.00 -4.57 peak



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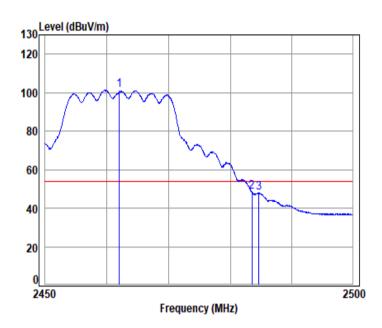


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11n_HT(20M)_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 97.89 101.26 54.00 47.26 Average 2483.500 7.40 27.80 31.55 44.79 48.44 54.00 -5.56 Average 7.41 27.81 31.55 44.33 48.00 54.00 -6.00 Average 2484.693



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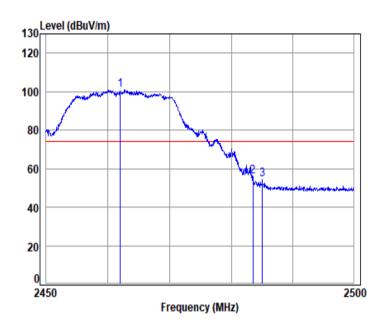


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11n_HT(20M)_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 97.40 100.77 74.00 26.77 peak 2483.500 7.40 27.80 31.55 52.28 55.93 74.00 -18.07 peak 7.41 27.81 31.55 50.69 54.36 74.00 -19.64 peak 2485.044



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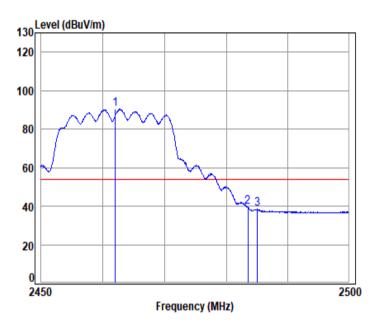


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11n_HT(20M)_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 87.03 90.40 54.00 36.40 Average 2483.500 7.40 27.80 31.55 35.65 39.30 54.00 -14.70 Average 2485.044 7.41 27.81 31.55 34.66 38.33 54.00 -15.67 Average



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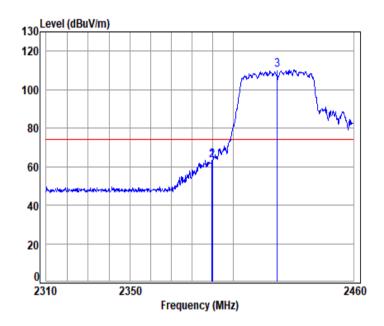


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11n_HT(40M)_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40 MIMO

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2	2389.827 2390.000								•
_	2422.000								•



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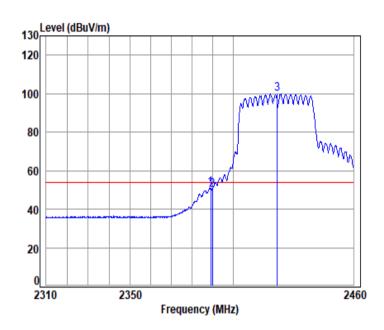


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11n_HT(40M)_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40 MIMO

		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		
	2389.226	6.82	27.46	31.54	48.16	50.90	54.00	-3.10	Average	
	2390.000	6.82	27.46	31.54	47.42	50.16	54.00	-3.84	Average	
nn	2422 000	6.98	27.54	31.54	96.87	99.85	54 00	45 85	Average	



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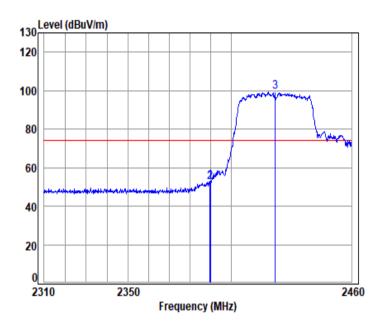


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11n_HT(40M)_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.677 6.82 27.46 31.54 50.32 53.06 74.00 -20.94 peak 2390.000 6.82 27.46 31.54 49.73 52.47 74.00 -21.53 peak 6.98 27.54 31.54 96.32 99.30 74.00 25.30 peak 3 pp 2422.000



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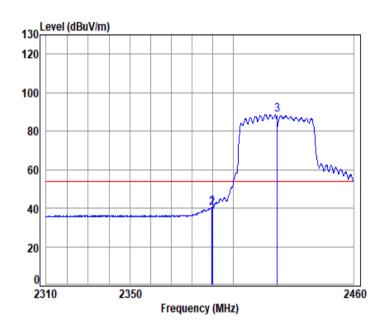


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11n_HT(40M)_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.827 6.82 27.46 31.54 37.55 40.29 54.00 -13.71 Average 2390.000 6.82 27.46 31.54 37.26 40.00 54.00 -14.00 Average 6.98 27.54 31.54 85.45 88.43 54.00 34.43 Average 3 pp 2422.000



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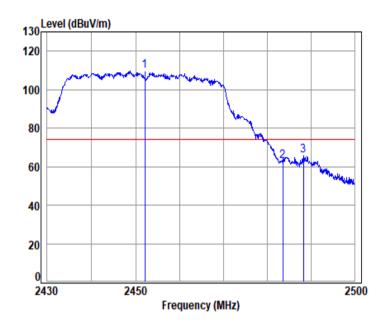


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11n_HT(40M)_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

2488.242

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 106.29 109.53 74.00 35.53 peak 2483.500 7.40 27.80 31.55 59.32 62.97 74.00 -11.03 peak

7.43 27.83 31.55 62.06 65.77 74.00 -8.23 peak



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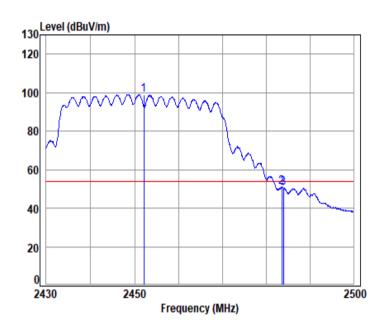


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11n_HT(40M)_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 95.83 99.07 54.00 45.07 Average 2483.500 7.40 27.80 31.55 47.08 50.73 54.00 -3.27 Average 7.40 27.80 31.55 47.01 50.66 54.00 -3.34 Average 2483.865



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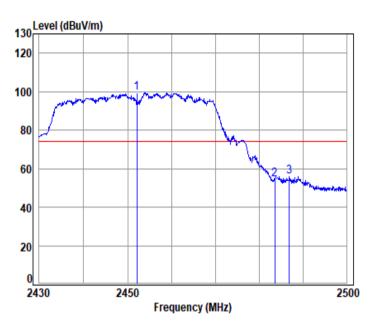


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11n_HT(40M)_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 96.22 99.46 74.00 25.46 peak 2483.500 7.40 27.80 31.55 50.74 54.39 74.00 -19.61 peak 7.42 27.82 31.55 52.37 56.06 74.00 -17.94 peak 2486.829



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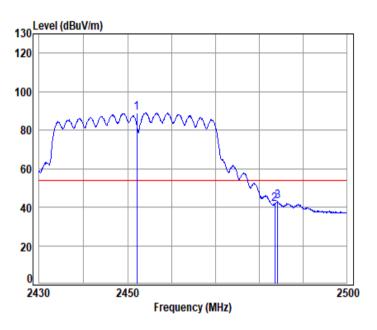


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11n_HT(40M)_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

2484.147

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 85.74 88.98 54.00 34.98 Average 2483.500 7.40 27.80 31.55 38.11 41.76 54.00 -12.24 Average

7.40 27.80 31.55 39.16 42.81 54.00 -11.19 Average



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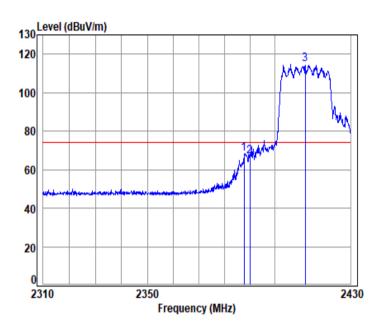


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11ax_20M_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2387.791 6.82 27.45 31.54 65.63 68.36 74.00 -5.64 peak 2390.000 6.82 27.46 31.54 64.02 66.76 74.00 -7.24 peak 6.91 27.52 31.54 111.54 114.43 74.00 40.43 peak 3 pp 2412.000



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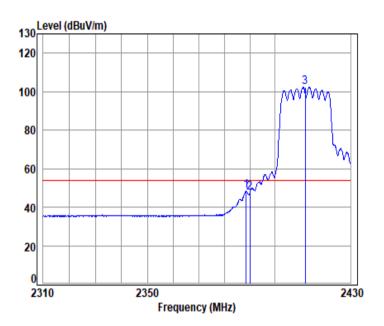


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11ax_20M_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1 2

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2388.516	6.82	27.45	31.54	45.55	48.28	54.00	-5.72	Average
	2390.000	6.82	27.46	31.54	44.71	47.45	54.00	-6.55	Average
pp	2412.000	6.91	27.52	31.54	99.32	102.21	54.00	48.21	Average



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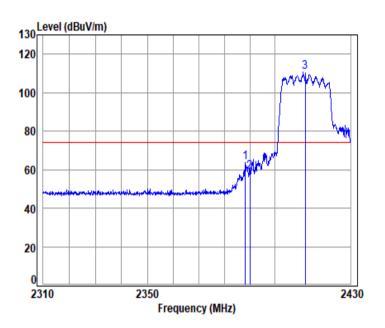


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11ax_20M_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2388.274 6.82 27.45 31.54 61.00 63.73 74.00 -10.27 peak 2390.000 6.82 27.46 31.54 55.97 58.71 74.00 -15.29 peak 6.91 27.52 31.54 107.72 110.61 74.00 36.61 peak 3 pp 2412.000



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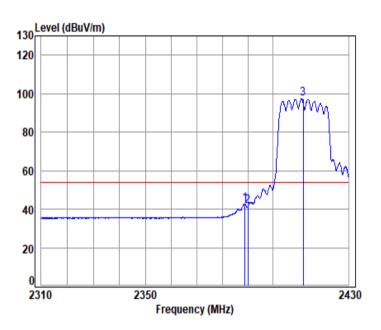


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11ax_20M_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2388.879 6.82 27.46 31.54 39.89 42.63 54.00 -11.37 Average 2390.000 6.82 27.46 31.54 38.82 41.56 54.00 -12.44 Average 6.91 27.52 31.54 94.59 97.48 54.00 43.48 Average 3 pp 2412.000



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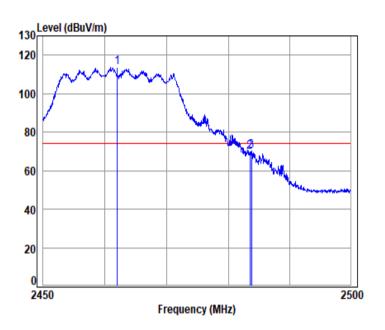


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11ax_20M_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	110.27	113.64	74.00	39.64	peak
2	2483.500	7.40	27.80	31.55	66.11	69.76	74.00	-4.24	peak
3	2483.790	7.40	27.80	31.55	66.38	70.03	74.00	-3.97	peak



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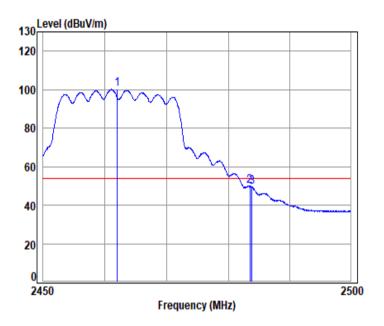


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11ax_20M_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

		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	2462.000	7.25	27.67	31.55	96.73	100.10	54.00	46.10	Average
2	2483.500	7.40	27.80	31.55	46.16	49.81	54.00	-4.19	Average
3	2483.890	7.40	27.80	31.55	45.95	49.60	54.00	-4.40	Average



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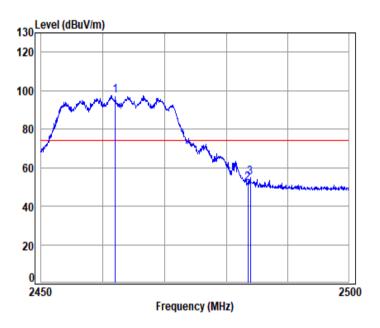


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11ax_20M_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	93.93	97.30	74.00	23.30	peak
2	2483.500	7.40	27.80	31.55	48.25	51.90	74.00	-22.10	peak
3	2483.940	7.40	27.80	31.55	51.02	54.67	74.00	-19.33	peak



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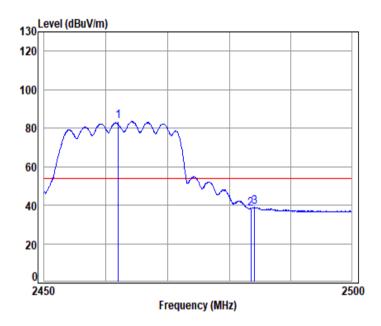


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11ax_20M_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 80.02 83.39 54.00 29.39 Average 2483.500 7.40 27.80 31.55 34.65 38.30 54.00 -15.70 Average 2484.141 7.40 27.80 31.55 35.20 38.85 54.00 -15.15 Average



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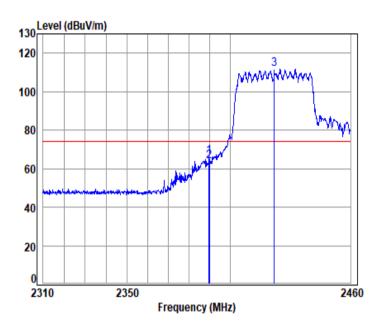


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11ax_40M_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

1 2

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 MIMO

Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
2389.827	6.82	27.46	31.54	63.65	66.39	74.00	-7.61	peak	
2390.000	6.82	27.46	31.54	60.79	63.53	74.00	-10.47	peak	
pp 2422.000	6.98	27.54	31.54	108.91	111.89	74.00	37.89	peak	



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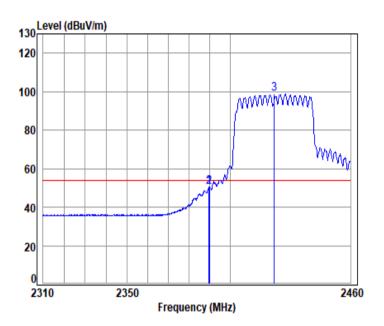


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11ax_40M_TX_CH_03_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

1 2

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 MIMO

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
L	2389.827								_	
3	2390.000 pp 2422.000								Average	



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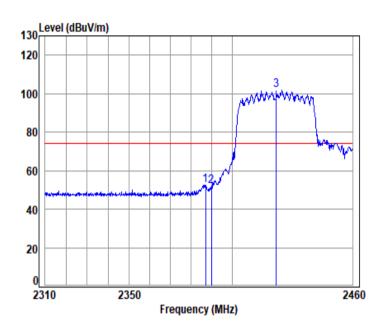


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11ax_40M_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 MTMO

. 2.4d WI TI IIAX40 MINO											
		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	2387.122	6.82	27.45	31.54	49.87	52.60	74.00	-21.40	peak		
2	2390.000								•		
- 3 nn	2422.000										
- PP	2722.000	0.50	27.57	21.24	22.01	102.03	7-1-00	20.03	peuk		



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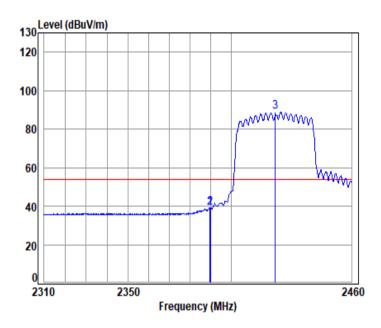


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11ax_40M_TX_CH_03_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 MIMO

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2389.677	6.82	27.46	31.54	36.34	39.08	54.00	-14.92	Average	
2390.000	6.82	27.46	31.54	36.11	38.85	54.00	-15.15	Average	
pp 2422.000	6.98	27.54	31.54	85.91	88.89	54.00	34.89	Average	



1 2

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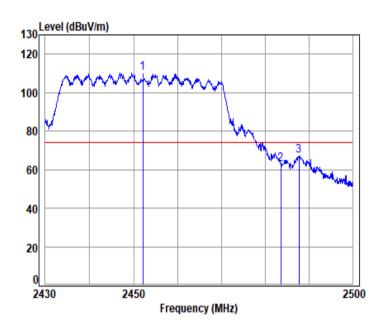


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11ax_40M_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

2487.677

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 106.88 110.12 74.00 36.12 peak 2483.500 7.40 27.80 31.55 59.06 62.71 74.00 -11.29 peak

7.43 27.83 31.55 63.32 67.03 74.00 -6.97 peak



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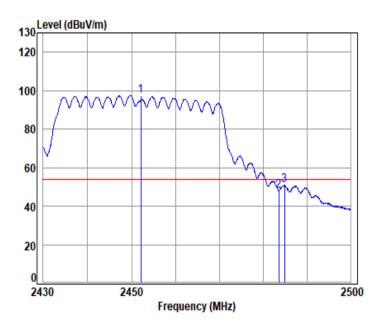


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11ax_40M_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 MTMO

	. Z.4d WI II IIUX40 MINO												
		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 p	p 2452.000	7.18	27.61	31.55	94.26	97.50	54.00	43.50	Average				
	2483.500								_				
	2/18/1 782								_				



2 3

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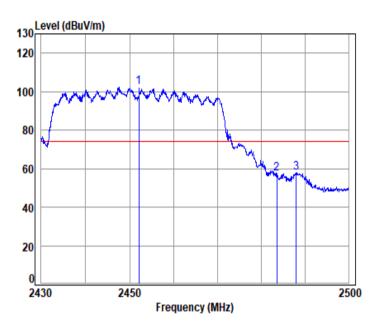


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11ax_40M_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 98.98 102.22 74.00 28.22 peak 2483.500 7.40 27.80 31.55 53.53 57.18 74.00 -16.82 peak 7.43 27.83 31.55 54.31 58.02 74.00 -15.98 peak 2487.959



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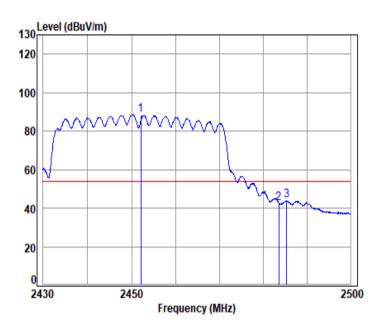


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11ax_40M_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 85.32 88.56 54.00 34.56 Average 2483.500 7.40 27.80 31.55 39.08 42.73 54.00 -11.27 Average 7.41 27.81 31.55 40.20 43.87 54.00 -10.13 Average 2485.276



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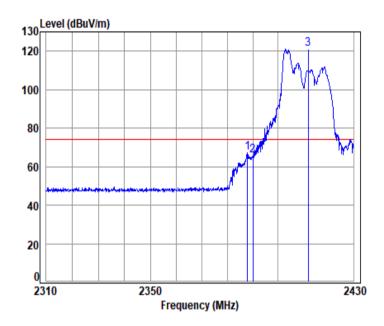


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11ax_20M_Partial_RU26_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2387.912 6.82 27.45 31.54 64.67 67.40 74.00 -6.60 peak 2390.000 6.82 27.46 31.54 62.93 65.67 74.00 -8.33 peak

6.91 27.52 31.54 118.16 121.05 74.00 47.05 peak



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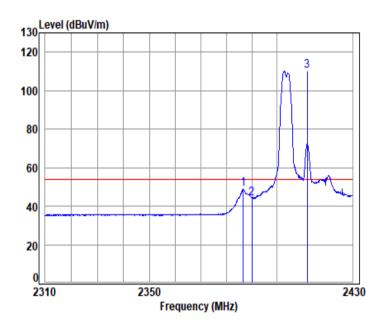


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11ax_20M_Partial_RU26_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2386.703 6.82 27.45 31.54 46.03 48.76 54.00 -5.24 Average 2390.000 6.82 27.46 31.54 41.48 44.22 54.00 -9.78 Average

6.91 27.52 31.54 107.14 110.03 54.00 56.03 Average



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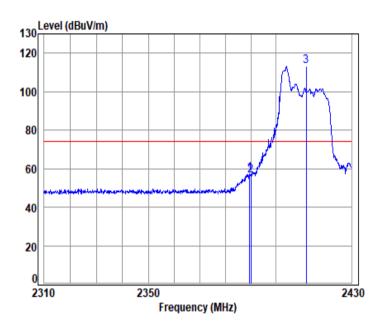


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11ax_20M_Partial_RU26_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

2390.000

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.605 6.82 27.46 31.54 54.37 57.11 74.00 -16.89 peak

> 6.82 27.46 31.54 53.70 56.44 74.00 -17.56 peak 6.91 27.52 31.54 110.16 113.05 74.00 39.05 peak



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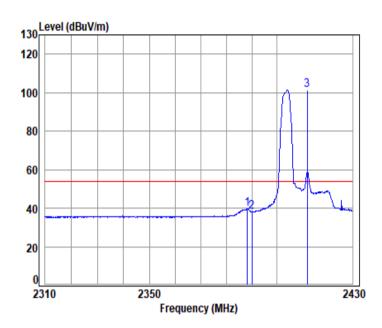


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11ax_20M_Partial_RU26_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2388.274 6.82 27.45 31.54 36.93 39.66 54.00 -14.34 Average 2390.000 6.82 27.46 31.54 35.49 38.23 54.00 -15.77 Average

6.91 27.52 31.54 98.31 101.20 54.00 47.20 Average



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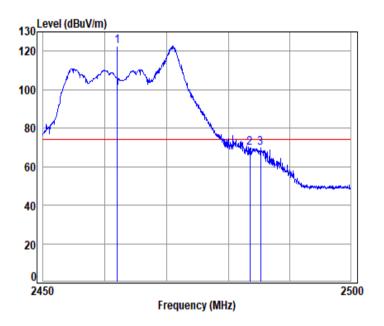


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11ax_20M_Partial_RU26_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

2483.500

2485.295

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 119.16 122.53 74.00 48.53 peak

> 7.40 27.80 31.55 66.09 69.74 74.00 -4.26 peak 7.41 27.81 31.55 66.18 69.85 74.00 -4.15 peak



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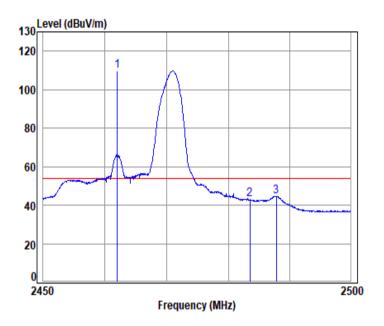


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11ax_20M_Partial_RU26_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

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

1 pp 2462.000 7.25 27.67 31.55 106.42 109.79 54.00 55.79 Average 2483.500 7.40 27.80 31.55 39.19 42.84 54.00 -11.16 Average 7.43 27.83 31.55 40.99 44.70 54.00 -9.30 Average 2487.807



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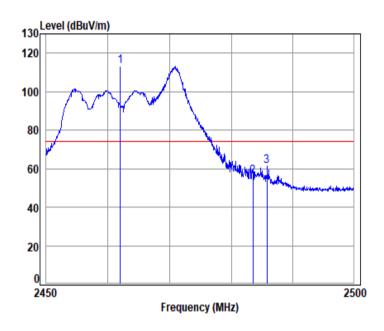


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11ax_20M_Partial_RU26_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

2483.500

2485.848

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 109.78 113.15 74.00 39.15 peak

> 7.40 27.80 31.55 52.25 55.90 74.00 -18.10 peak 7.41 27.82 31.55 57.58 61.26 74.00 -12.74 peak



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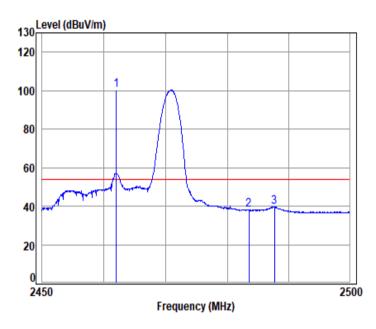


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11ax_20M_Partial_RU26_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

2487.707

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU26 MIMO

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 96.91 100.28 54.00 46.28 Average 2483.500 7.40 27.80 31.55 34.28 37.93 54.00 -16.07 Average

7.43 27.83 31.55 35.80 39.51 54.00 -14.49 Average



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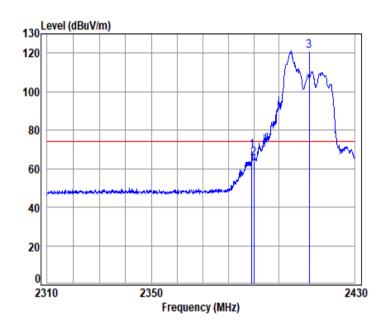


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11ax_20M_Partial_RU52_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 6.82 27.46 31.54 66.31 69.05 74.00 -4.95 peak 2389.242 2390.000 6.82 27.46 31.54 62.69 65.43 74.00 -8.57 peak

6.91 27.52 31.54 118.17 121.06 74.00 47.06 peak



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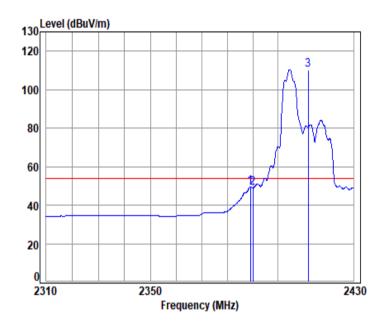


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11ax_20M_Partial_RU52_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.121 6.82 27.46 31.54 46.83 49.57 54.00 -4.43 Average 2390.000 6.82 27.46 31.54 46.15 48.89 54.00 -5.11 Average

6.91 27.52 31.54 107.53 110.42 54.00 56.42 Average



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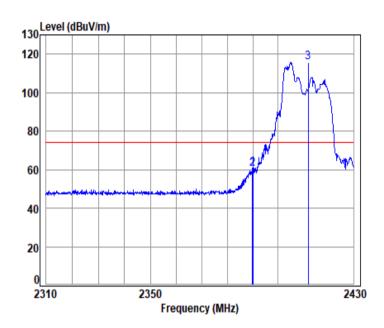


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11ax_20M_Partial_RU52_TX_CH_01_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.847 6.82 27.46 31.54 57.85 60.59 74.00 -13.41 peak 2390.000 6.82 27.46 31.54 57.49 60.23 74.00 -13.77 peak

6.91 27.52 31.54 112.88 115.77 74.00 41.77 peak



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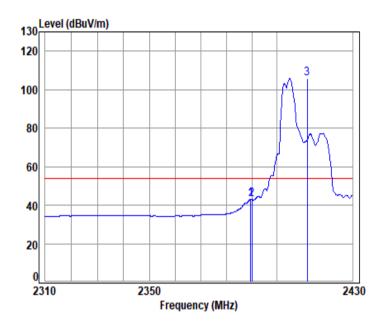


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11ax_20M_Partial_RU52_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.605 6.82 27.46 31.54 40.44 43.18 54.00 -10.82 Average 2390.000 6.82 27.46 31.54 40.34 43.08 54.00 -10.92 Average

6.91 27.52 31.54 102.68 105.57 54.00 51.57 Average



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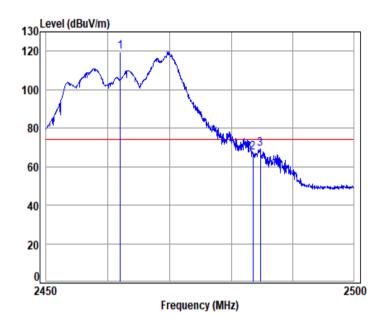


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11ax_20M_Partial_RU52_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

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

1 pp 2462.000 7.25 27.67 31.55 116.17 119.54 74.00 45.54 peak 2483.500 7.40 27.80 31.55 63.70 67.35 74.00 -6.65 peak 7.41 27.81 31.55 65.70 69.37 74.00 -4.63 peak 2484.743



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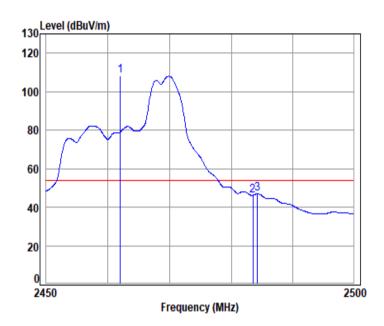


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11ax_20M_Partial_RU52_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

2483.500

2484.292

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 104.64 108.01 54.00 54.01 Average

> 7.40 27.80 31.55 42.51 46.16 54.00 -7.84 Average 7.40 27.81 31.55 43.20 46.86 54.00 -7.14 Average



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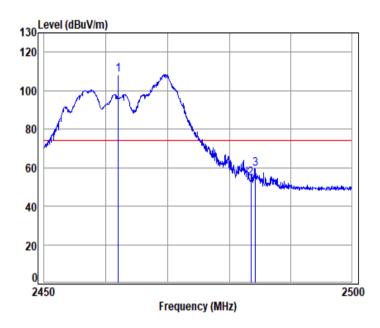


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11ax_20M_Partial_RU52_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

2484.292

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 105.10 108.47 74.00 34.47 peak 2483.500 7.40 27.80 31.55 50.60 54.25 74.00 -19.75 peak

7.40 27.81 31.55 55.59 59.25 74.00 -14.75 peak



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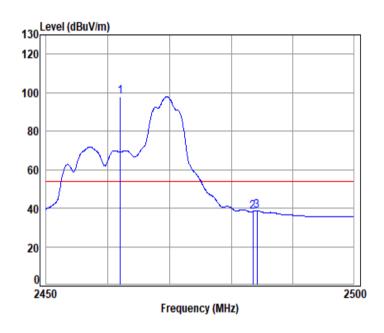


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11ax_20M_Partial_RU52_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

2484.191

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU52 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 94.43 97.80 54.00 43.80 Average 2483.500 7.40 27.80 31.55 34.63 38.28 54.00 -15.72 Average

7.40 27.81 31.55 34.97 38.63 54.00 -15.37 Average



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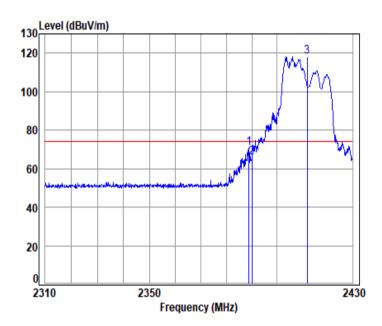


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11ax_20M_Partial_RU106_TX_CH_01_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 6.82 27.46 31.54 68.15 70.89 74.00 -3.11 peak 2388.879 2390.000 6.82 27.46 31.54 63.22 65.96 74.00 -8.04 peak 6.91 27.52 31.54 115.32 118.21 74.00 44.21 peak 3 pp 2412.000



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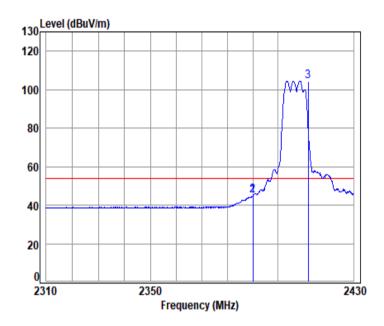


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11ax_20M_Partial_RU106_TX_CH_01_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

3 pp 2412.000

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.968 6.82 27.46 31.54 42.16 44.90 54.00 -9.10 Average 2390.000 6.82 27.46 31.54 42.16 44.90 54.00 -9.10 Average

6.91 27.52 31.54 101.64 104.53 54.00 50.53 Average



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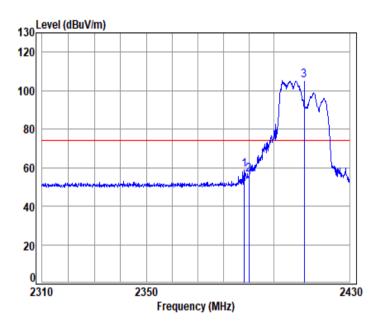


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11ax_20M_Partial_RU106_TX_CH_01_Vertical-Peak

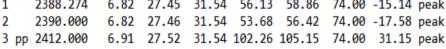


Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 6.82 27.45 31.54 56.13 58.86 74.00 -15.14 peak 2388.274





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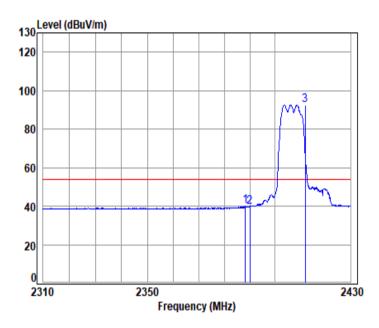


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11ax_20M_Partial_RU106_TX_CH_01_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2412 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2388.274 6.82 27.45 31.54 37.11 39.84 54.00 -14.16 Average 2390.000 6.82 27.46 31.54 36.93 39.67 54.00 -14.33 Average 6.91 27.52 31.54 89.65 92.54 54.00 38.54 Average 3 pp 2412.000



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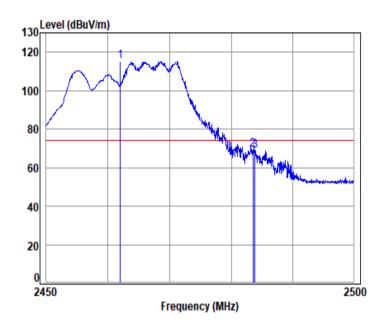


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11ax_20M_Partial_RU106_TX_CH_11_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

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

1 pp 2462.000 7.25 27.67 31.55 111.81 115.18 74.00 41.18 peak 2483.500 7.40 27.80 31.55 65.77 69.42 74.00 -4.58 peak 7.40 27.80 31.55 65.28 68.93 74.00 -5.07 peak 2483.840



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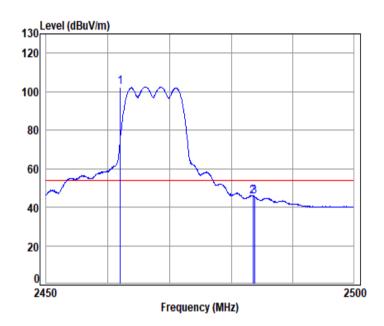


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11ax_20M_Partial_RU106_TX_CH_11_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

2483.790

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 99.09 102.46 54.00 48.46 Average 2483.500 7.40 27.80 31.55 42.02 45.67 54.00 -8.33 Average

7.40 27.80 31.55 41.64 45.29 54.00 -8.71 Average



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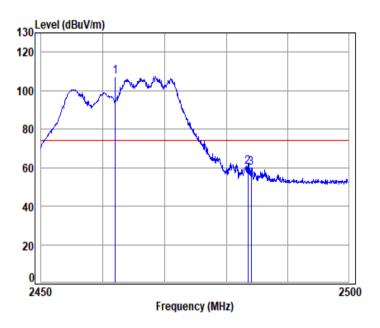


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11ax_20M_Partial_RU106_TX_CH_11_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

2483.500

2484.091

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 103.74 107.11 74.00 33.11 peak

> 7.40 27.80 31.55 56.83 60.48 74.00 -13.52 peak 7.40 27.80 31.55 56.27 59.92 74.00 -14.08 peak



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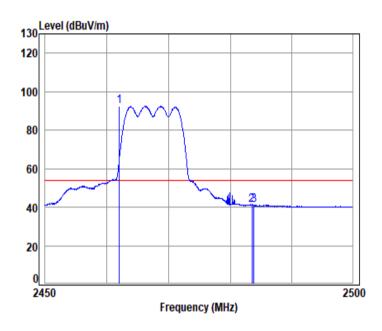


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11ax_20M_Partial_RU106_TX_CH_11_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

2483.840

Mode : 2462 Band edge

: 2.4G Wi-Fi 11ax20 RU106 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2462.000 7.25 27.67 31.55 89.01 92.38 54.00 38.38 Average 2483.500 7.40 27.80 31.55 37.57 41.22 54.00 -12.78 Average

7.40 27.80 31.55 37.61 41.26 54.00 -12.74 Average



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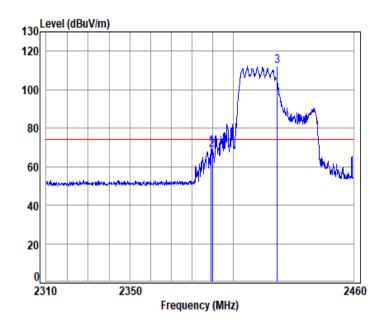


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11ax_40M_Partial_RU242_TX_CH_03_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.376 6.82 27.46 31.54 67.22 69.96 74.00 -4.04 peak 2390.000 6.82 27.46 31.54 66.00 68.74 74.00 -5.26 peak 6.98 27.54 31.54 109.05 112.03 74.00 38.03 peak 3 pp 2422.000



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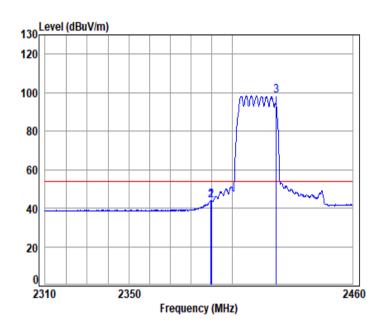


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Condition: 3m HORIZONTAL

Job No : 01554WM

3 pp 2422.000

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.677 6.82 27.46 31.54 41.24 43.98 54.00 -10.02 Average 2390.000 6.82 27.46 31.54 41.02 43.76 54.00 -10.24 Average

6.98 27.54 31.54 95.30 98.28 54.00 44.28 Average



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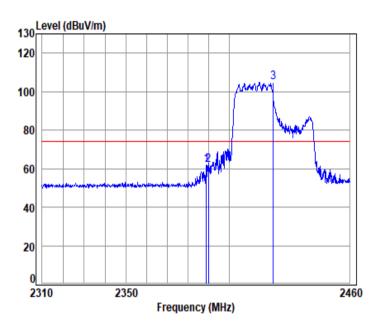


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11ax_40M_Partial_RU242_TX_CH_03_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2388.925 6.82 27.46 31.54 59.10 61.84 74.00 -12.16 peak 2390.000 6.82 27.46 31.54 59.27 62.01 74.00 -11.99 peak 6.98 27.54 31.54 102.01 104.99 74.00 30.99 peak 3 pp 2422.000



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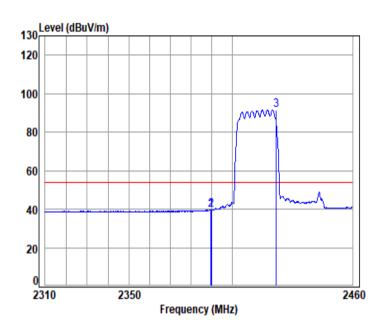


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Condition: 3m VERTICAL Job No : 01554WM

Mode : 2422 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 2389.677 6.82 27.46 31.54 36.90 39.64 54.00 -14.36 Average 2390.000 6.82 27.46 31.54 36.95 39.69 54.00 -14.31 Average 3 pp 2422.000 6.98 27.54 31.54 88.57 91.55 54.00 37.55 Average



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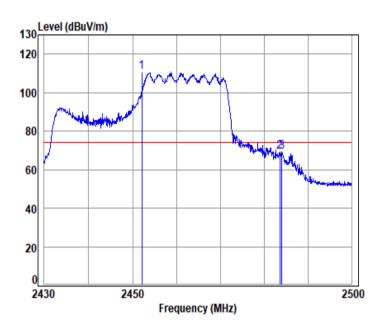


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11ax_40M_Partial_RU242_TX_CH_09_Horizontal-Peak



Condition: 3m HORIZONTAL

Job No : 01554WM

2483.500

2484.006

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 107.40 110.64 74.00 36.64 peak

7.40 27.80 31.55 65.61 69.26 74.00 -4.74 peak

7.40 27.80 31.55 65.45 69.10 74.00



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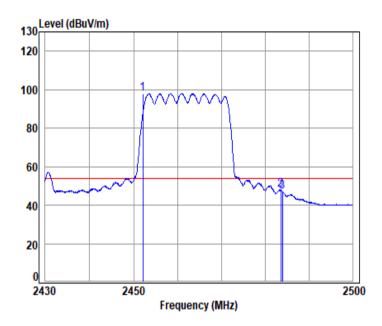


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11ax_40M_Partial_RU242_TX_CH_09_Horizontal-Avg



Condition: 3m HORIZONTAL

Job No : 01554WM

2483.865

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dB/m dB dBuV dBuV/m dBuV/m 1 pp 2452.000 7.18 27.61 31.55 94.75 97.99 54.00 43.99 Average 2483.500 7.40 27.80 31.55 44.16 47.81 54.00 -6.19 Average

7.40 27.80 31.55 43.54 47.19 54.00 -6.81 Average



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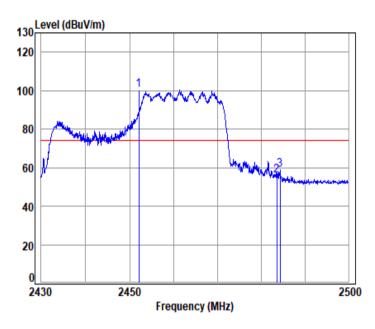


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11ax_40M_Partial_RU242_TX_CH_09_Vertical-Peak



Condition: 3m VERTICAL Job No : 01554WM

2483.500

2484.217

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

Cable Ant Preamp Limit Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m dB/m dB 1 pp 2452.000 7.18 27.61 31.55 96.98 100.22 74.00 26.22 peak

> 7.40 27.80 31.55 52.18 55.83 74.00 -18.17 peak 7.40 27.81 31.55 55.19 58.85 74.00 -15.15 peak



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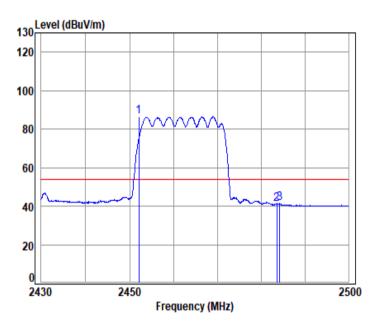


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11ax_40M_Partial_RU242_TX_CH_09_Vertical-Avg



Condition: 3m VERTICAL Job No : 01554WM

Mode : 2452 Band edge

: 2.4G Wi-Fi 11ax40 RU242 MIMO

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

1 pp 2452.000 7.18 27.61 31.55 83.19 86.43 54.00 32.43 Average 2483.500 7.40 27.80 31.55 37.62 41.27 54.00 -12.73 Average 2484.147 7.40 27.80 31.55 37.67 41.32 54.00 -12.68 Average



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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.0.2 Test mode bescription								
Pre-scan / Final test	Mode Code	Description						
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.						
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.						



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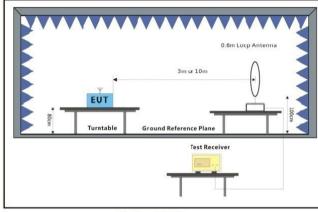


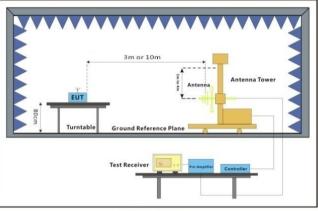
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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

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 or 10 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. 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.



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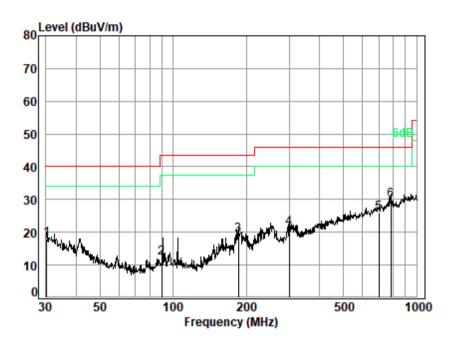


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Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01554WM

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.10	0.67	27.79	23.99	17.97	40.00	-22.03	QP
2	89.905	11.72	1.16	27.62	26.88	12.14	43.50	-31.36	QP
3	185.788	14.29	1.70	27.23	30.54	19.30	43.50	-24.20	QP
4	299.316	17.94	2.20	26.75	27.83	21.22	46.00	-24.78	QP
5	699.305	25.93	3.54	27.73	24.11	25.85	46.00	-20.15	QP
6 a	782.345	27.08	3.81	27.52	26.31	29.68	46.00	-16.32	OP



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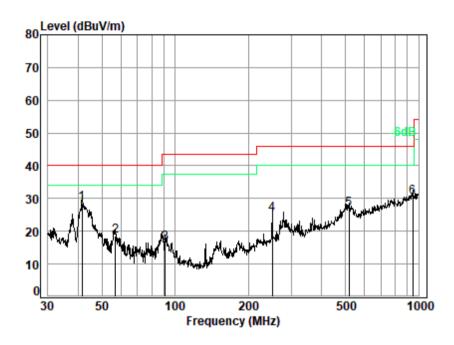


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Test Mode: 08; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 01554WM

Test Mode: 08

	Ant		Ant Cab			Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark		
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB			
1 q	41.422	15.69	0.79	27.76	39.88	28.60	40.00	-11.40	QP		
2	56.792	11.77	0.92	27.71	33.46	18.44	40.00	-21.56	QP		
3	91.175	11.83	1.17	27.62	31.05	16.43	43.50	-27.07	QP		
4	250.301	17.24	2.00	26.96	32.87	25.15	46.00	-20.85	QP		
5	517.248	23.31	2.98	27.63	28.00	26.66	46.00	-19.34	QP		
6	945.440	28.26	4.24	26.44	24.40	30.46	46.00	-15.54	OP		



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7.4 Radiated Spurious Emissions Above 1GHz

47 CFR Part 15, Subpart C 15.205 & 15.209 **Test Requirement**

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
Above 1000	500	3		

7.4.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.5 °C Humidity: 59.4 % RH

7.4.2 Test Mode Description

7.4.2 Test mode Description							
Pre-scan / Final test	Mode Code	Description					
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.					
Final test	08	Charge + TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.					



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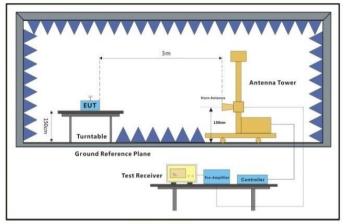


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7.4.3 Test Setup Diagram



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 1GHz to 25GHz, 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 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.
- 5: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.
- j. All the antennas are tested and only the worst data is presented.



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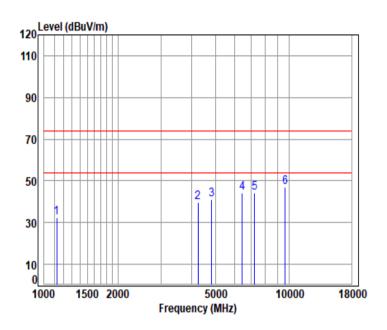


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11b_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM

Mode : 2412 TX RSE

: 2.4G Wi-Fi 11b

. 2										
			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		1125.813	7.12	25.50	54.70	54.63	32.55	74.00	-41.45	peak
2		4242.641	8.48	31.06	55.77	56.04	39.81	74.00	-34.19	peak
3		4824.000	8.92	32.00	56.18	56.30	41.04	74.00	-32.96	peak
4		6432.732	10.56	34.80	56.81	55.70	44.25	74.00	-29.75	peak
5		7236.000	11.10	36.60	56.51	53.08	44.27	74.00	-29.73	peak
6	pp	9648.000	12.49	38.70	54.42	50.32	47.09	74.00	-26.91	peak



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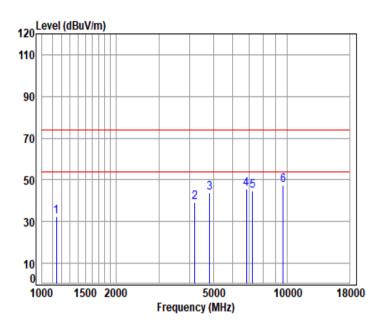


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11b_TX_CH_01_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2412 TX RSE

· 2 4G Wi-Fi 11h

		. 2.4	G MT I	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		1145.507	7.14	25.42	54.70	54.71	32.57	74.00	-41.43	peak	
2		4193.872	8.50	30.76	55.74	55.78	39.30	74.00	-34.70	peak	
3		4824.000	8.92	32.00	56.18	58.84	43.58	74.00	-30.42	peak	
4		6835.278	10.97	35.97	56.73	55.55	45.76	74.00	-28.24	peak	
5		7236.000	11.10	36.60	56.51	53.36	44.55	74.00	-29.45	peak	
6	nn	9648,000	12.49	38.70	54.42	50.57	47.34	74.00	-26.66	neak	



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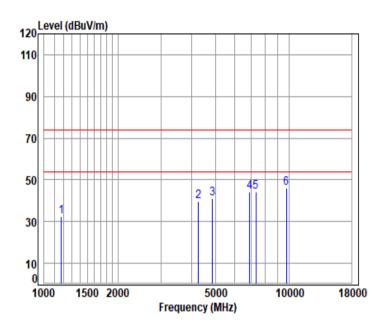


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11b_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2437 TX RSE

: 2.4G Wi-Fi 11b

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

		2033							
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	1175.697 4267.237 4874.000	8.47	31.17	55.79	55.88	39.73	74.00	-34.27	peak
4 5	6894.806 7311.000 9748.000	10.94 11.11	36.18 36.72	56.72 56.45	54.04 53.09	44.44 44.47	74.00 74.00	-29.56 -29.53	peak peak



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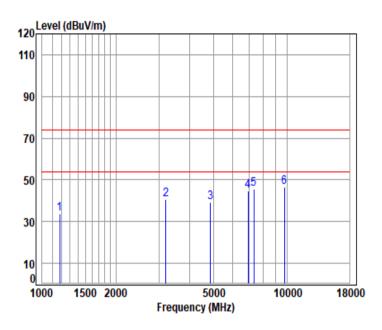


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11b_TX_CH_06_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2437 TX RSE

: 2.4G Wi-Fi 11b

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1179.100 7.17 25.34 54.70 55.97 33.78 74.00 -40.22 peak 1 2 3196.094 7.70 29.20 55.12 58.77 40.55 74.00 -33.45 peak 3 4874.000 8.97 32.15 56.21 54.44 39.35 74.00 -34.65 peak 4 10.95 36.13 56.71 54.13 44.50 6934.778 74.00 -29.50 peak 5 11.11 36.72 56.45 54.20 45.58 74.00 -28.42 peak 7311.000 6 pp 9748.000 12.80 38.60 54.33 49.38 46.45 74.00 -27.55 peak



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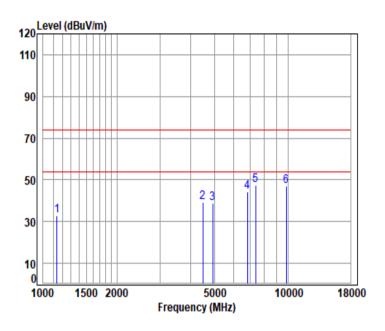


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11b TX CH 11 Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2462 TX RSE

: 2.4G Wi-Fi 11b

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1138.904 7.14 25.44 54.70 55.07 32.95 74.00 -41.05 peak 1 2 4495.125 8.56 31.58 55.95 55.01 39.20 74.00 -34.80 peak 3 9.03 32.20 56.25 54.02 74.00 -35.00 peak 4924.000 39.00 6835.278 10.97 35.97 56.73 54.13 44.34 4 74.00 -29.66 peak 11.19 36.73 56.39 55.92 47.45 74.00 -26.55 peak 5 pp 7386.000 9848.000 12.84 37.83 54.24 50.73 47.16 74.00 -26.84 peak



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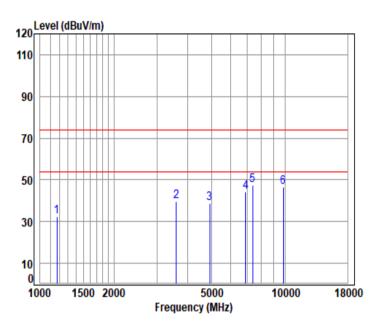


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11b_TX_CH_11_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2462 TX RSE

: 2.4G Wi-Fi 11b

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1172.303 7.17 25.36 54.70 54.69 32.52 74.00 -41.48 peak 1 2 3598.203 7.76 29.90 55.36 57.25 39.55 74.00 -34.45 peak 3 4924.000 9.03 32.20 56.25 53.93 38.91 74.00 -35.09 peak 10.94 36.18 56.72 53.68 44.08 4 6894.806 74.00 -29.92 peak 11.19 36.73 56.39 56.00 47.53 74.00 -26.47 peak 5 pp 7386.000 9848.000 12.84 37.83 54.24 49.94 46.37 74.00 -27.63 peak



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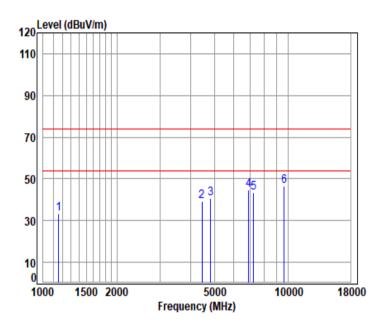


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11n_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1155.483 7.15 25.39 54.70 55.61 33.45 74.00 -40.55 peak 1 2 4456.315 8.55 31.43 55.92 55.02 39.08 74.00 -34.92 peak 3 4824.000 8.92 32.00 56.18 56.07 40.81 74.00 -33.19 peak 4 6894.806 10.94 36.18 56.72 54.30 44.70 74.00 -29.30 peak 5 7236.000 11.10 36.60 56.51 52.26 43.45 74.00 -30.55 peak 6 pp 9648.000 12.49 38.70 54.42 49.93 46.70 74.00 -27.30 peak



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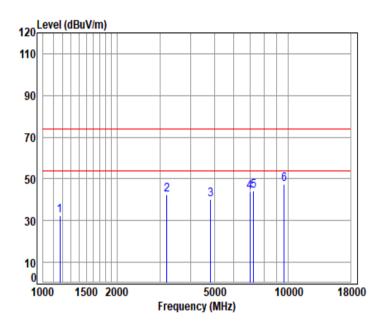


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11n_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2412 TX RSE

: 2.4G Wi-Fi 11n20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1172.303	7.17	25.36	54.70	54.66	32.49	74.00	-41.51	peak
2		3196.094	7.70	29.20	55.12	60.60	42.38	74.00	-31.62	peak
3		4824.000	8.92	32.00	56.18	55.42	40.16	74.00	-33.84	peak
4		6995.172	10.96	36.19	56.70	53.54	43.99	74.00	-30.01	peak
5		7236.000	11.10	36.60	56.51	53.09	44.28	74.00	-29.72	peak
6	pp	9648.000	12.49	38.70	54.42	50.82	47.59	74.00	-26.41	peak



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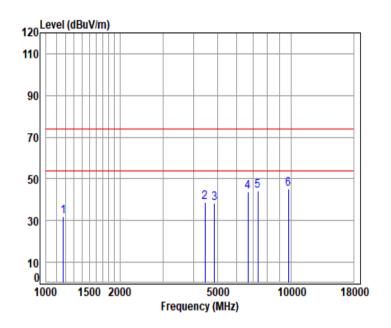


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11n_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1175.697 7.17 25.35 54.70 54.01 31.83 74.00 -42.17 peak 1 2 4456.315 8.55 31.43 55.92 54.64 38.70 74.00 -35.30 peak 3 4874.000 8.97 32.15 56.21 53.33 38.24 74.00 -35.76 peak 4 6679.040 10.82 35.44 56.76 54.16 43.66 74.00 -30.34 peak 5 7311.000 11.11 36.72 56.45 52.85 44.23 74.00 -29.77 peak 6 pp 9748.000 12.80 38.60 54.33 47.99 45.06 74.00 -28.94 peak



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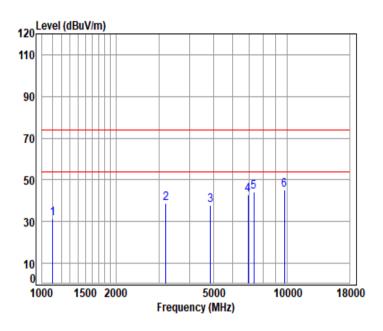


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11n_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n20

Read Limit Cable Ant Preamp 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1106.457 7.11 25.57 54.70 53.68 31.66 74.00 -42.34 peak 1 2 3196.094 7.70 29.20 55.12 56.86 38.64 74.00 -35.36 peak 3 4874.000 8.97 32.15 56.21 52.79 37.70 74.00 -36.30 peak 4 6934.778 10.95 36.13 56.71 52.74 43.11 74.00 -30.89 peak 5 7311.000 11.11 36.72 56.45 52.78 44.16 74.00 -29.84 peak 6 pp 9748.000 12.80 38.60 54.33 48.05 45.12 74.00 -28.88 peak



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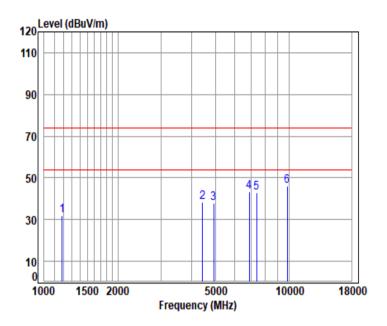


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11n 20M TX CH 11 Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

Read Cable Ant Preamp Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1182.513 7.17 25.33 54.70 54.16 31.96 74.00 -42.04 peak 1 2 4430.628 8.55 31.32 55.90 54.26 38.23 74.00 -35.77 peak 3 4924.000 9.03 32.20 56.25 52.72 37.70 74.00 -36.30 peak 4 6874.906 10.95 36.10 56.73 52.99 43.31 74.00 -30.69 peak 5 7386.000 11.19 36.73 56.39 51.22 42.75 74.00 -31.25 peak 6 pp 9848.000 12.84 37.83 54.24 49.47 45.90 74.00 -28.10 peak



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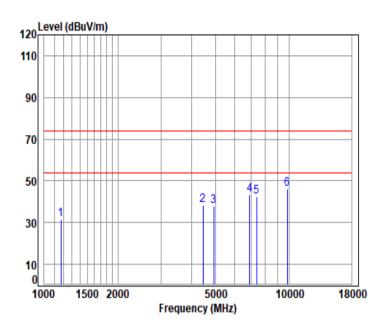


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11n_20M_TX_CH_11_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1		1168.920	7.16	25.36	54.70	53.56	31.38	74.00	-42.62	peak
2		4456.315	8.55	31.43	55.92	54.11	38.17	74.00	-35.83	peak
3		4924.000	9.03	32.20	56.25	52.69	37.67	74.00	-36.33	peak
4		6914.763	10.94	36.17	56.72	53.07	43.46	74.00	-30.54	peak
5		7386.000	11.19	36.73	56.39	50.75	42.28	74.00	-31.72	peak
6	pp	9848.000	12.84	37.83	54.24	49.49	45.92	74.00	-28.08	peak



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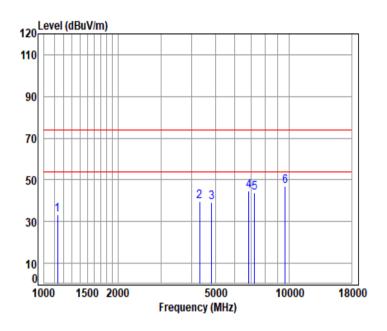


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11ax_20M_TX_CH_01_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2412 TX RSE

: 2.4G Wi-Fi 11ax20

Limit Cable Ant Preamp Read 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1135.617 7.13 25.46 54.70 55.42 33.31 74.00 -40.69 peak 1 2 4316.859 8.47 31.30 55.82 55.63 39.58 74.00 -34.42 peak 3 4824.000 8.92 32.00 56.18 54.38 39.12 74.00 -34.88 peak 4 6855.063 10.96 36.02 56.73 54.57 44.82 74.00 -29.18 peak 5 7236.000 11.10 36.60 56.51 52.54 43.73 74.00 -30.27 peak 6 pp 9648.000 12.49 38.70 54.42 50.33 47.10 74.00 -26.90 peak



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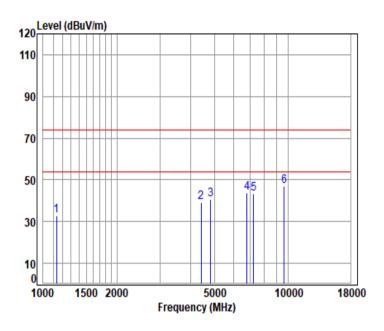


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11ax_20M_TX_CH_01_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2412 TX RSE

: 2.4G Wi-Fi 11ax20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	7.13	25.46	54.70	55.19	33.08	74.00	-40.92	peak
2	4417.841	8.54	31.27	55.89	55.12	39.04	74.00	-34.96	peak
3	4824.000	8.92	32.00	56.18	55.79	40.53	74.00	-33.47	peak
4	6795.879	10.97	35.88	56.74	53.87	43.98	74.00	-30.02	peak
5	7236.000	11.10	36.60	56.51	52.36	43.55	74.00	-30.45	peak
6 p	9648.000	12.49	38.70	54.42	50.35	47.12	74.00	-26.88	peak



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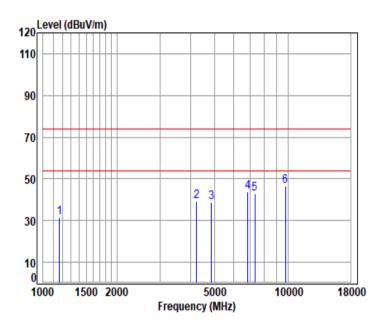


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11ax_20M_TX_CH_06_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1165.546	7.16	25.37	54.70	53.81	31.64	74.00	-42.36	peak
2		4230.396	8.49	30.98	55.76	55.36	39.07	74.00	-34.93	peak
3		4874.000	8.97	32.15	56.21	53.95	38.86	74.00	-35.14	peak
4		6855.063	10.96	36.02	56.73	53.37	43.62	74.00	-30.38	peak
5		7311.000	11.11	36.72	56.45	51.38	42.76	74.00	-31.24	peak
6	pp	9748.000	12.80	38.60	54.33	49.53	46.60	74.00	-27.40	peak



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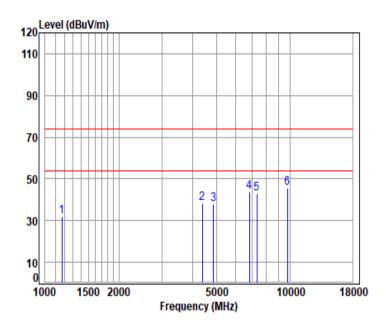


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11ax_20M_TX_CH_06_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2437 TX RSE

: 2.4G Wi-Fi 11ax20

Ant Preamp Read Limit Cable 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1168.920 7.16 25.36 54.70 53.93 31.75 74.00 -42.25 peak 1 2 4392.376 8.53 31.22 55.87 54.39 38.27 74.00 -35.73 peak 3 4874.000 8.97 32.15 56.21 53.09 74.00 -36.00 peak 38.00 4 6835.278 10.97 35.97 56.73 53.45 43.66 74.00 -30.34 peak 5 7311.000 11.11 36.72 56.45 51.71 43.09 74.00 -30.91 peak 6 pp 9748.000 12.80 38.60 54.33 48.64 45.71 74.00 -28.29 peak



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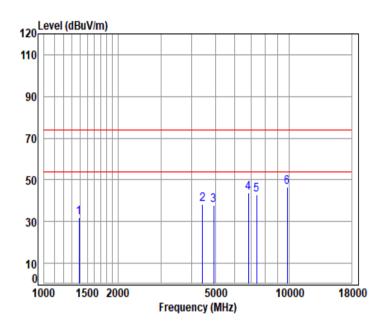


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11ax_20M_TX_CH_11_Horizontal



Condition: 3m HORIZONTAL

Job No : 01554WM Mode : 2462 TX RSE

: 2.4G Wi-Fi 11ax20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB 1390.276 7.20 25.02 54.70 54.27 31.79 74.00 -42.21 peak 4443.453 8.55 31.37 55.91 54.32 38.33 74.00 -35.67 peak 4924.000 9.03 32.20 56.25 52.83 37.81 74.00 -36.19 peak 6835.278 10.97 35.97 56.73 53.75 43.96 74.00 -30.04 peak 7386.000 11.19 36.73 56.39 51.58 43.11 74.00 -30.89 peak

6 pp 9848.000 12.84 37.83 54.24 50.31 46.74 74.00 -27.26 peak



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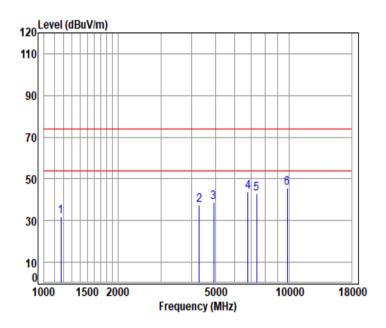


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11ax_20M_TX_CH_11_Vertical



Condition: 3m VERTICAL Job No : 01554WM Mode : 2462 TX RSE

: 2.4G Wi-Fi 11ax20

			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		1168.920	7.16	25.36	54.70	54.14	31.96	74.00	-42.04	peak
2		4304.400	8.45	31.30	55.81	53.61	37.55	74.00	-36.45	peak
3		4924.000	9.03	32.20	56.25	53.61	38.59	74.00	-35.41	peak
4		6795.879	10.97	35.88	56.74	53.82	43.93	74.00	-30.07	peak
5		7386.000	11.19	36.73	56.39	51.58	43.11	74.00	-30.89	peak
6	pp	9848.000	12.84	37.83	54.24	49.10	45.53	74.00	-28.47	peak



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7.5 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

11012 1 Oct Meda Becompact							
Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.					



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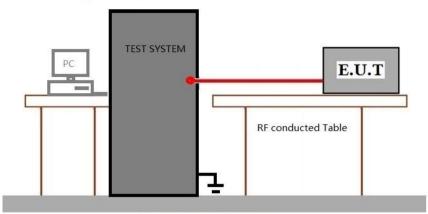


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 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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7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

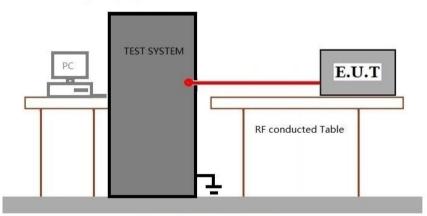
Operating Environment:

Temperature: 22.2 °C Atmospheric Pressure: 1020 mbar Humidity: 40.0 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.7.1 E.U.T. Operation

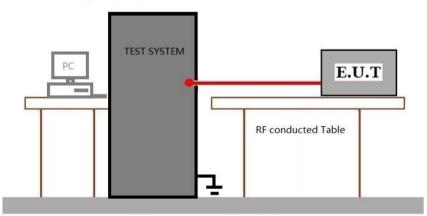
Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.							

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Tiol Tool mode Possipher							
Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.					



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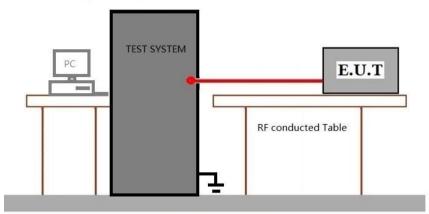


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.0 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

11012 1001 11000 2000 1010 11							
Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ax(20/40M). Only the data of worst case is recorded in the report.					



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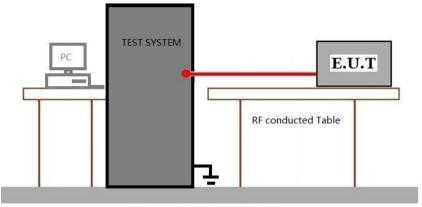
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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo

Please refer to SZCR2504001554 Appendix_Setup Photo

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2504001554WM



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant16

						Ant16			
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2412	/	/	8.384	8.510	98.52	0.06	0.04
802.11b	SISO	2437	/	/	8.383	8.510	98.51	0.07	0.00
		2462	/	/	8.383	8.513	98.47	0.07	0.04
		2412	/	/	1.393	1.490	93.49	0.29	0.06
802.11g	MIMO	2437	/	/	1.392	1.489	93.49	0.29	0.03
		2462	/	/	1.392	1.489	93.49	0.29	0.03
000.44		2412	/	/	1.301	1.397	93.13	0.31	0.03
802.11n (HT20)	MIMO	2437	/	/	1.300	1.397	93.06	0.31	0.03
(11120)		2462	/	/	1.301	1.397	93.13	0.31	0.00
000.44		2422	/	/	0.644	0.741	86.91	0.61	0.06
802.11n (HT40)	MIMO	2437	/	/	0.644	0.741	86.91	0.61	0.06
(11140)		2452	/	/	0.645	0.741	87.04	0.60	0.06
000 44		2412	RU242	Left	1.301	1.398	93.06	0.31	0.03
802.11ax (HEW20)	MIMO	2437	RU242	Left	1.300	1.397	93.06	0.31	0.03
(1127720)		2462	RU242	Left	1.301	1.397	93.13	0.31	0.06
000.44		2422	RU484	Left	0.645	0.741	87.04	0.60	0.04
802.11ax (HEW40)	MIMO	2437	RU484	Left	0.645	0.742	86.93	0.61	0.05
(112 440)		2452	RU484	Left	0.644	0.741	86.91	0.61	0.03



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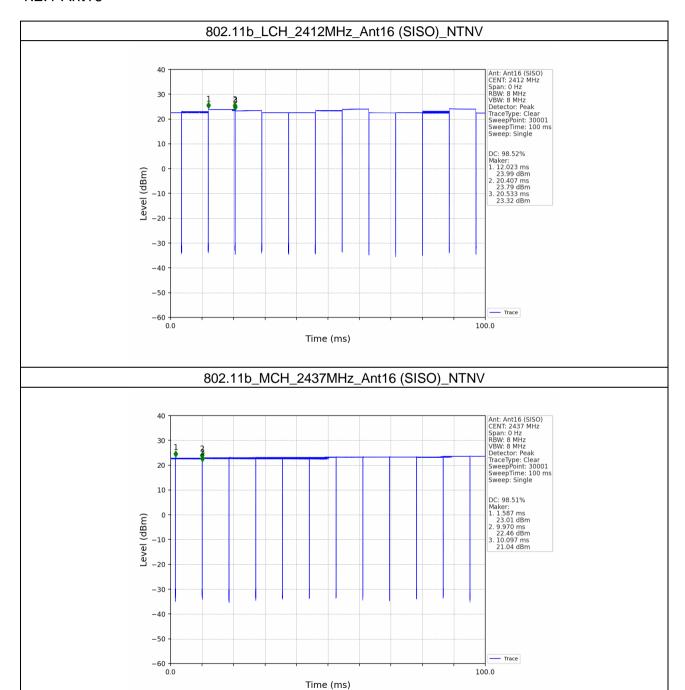
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1.2 Test Graph

1.2.1 Ant16





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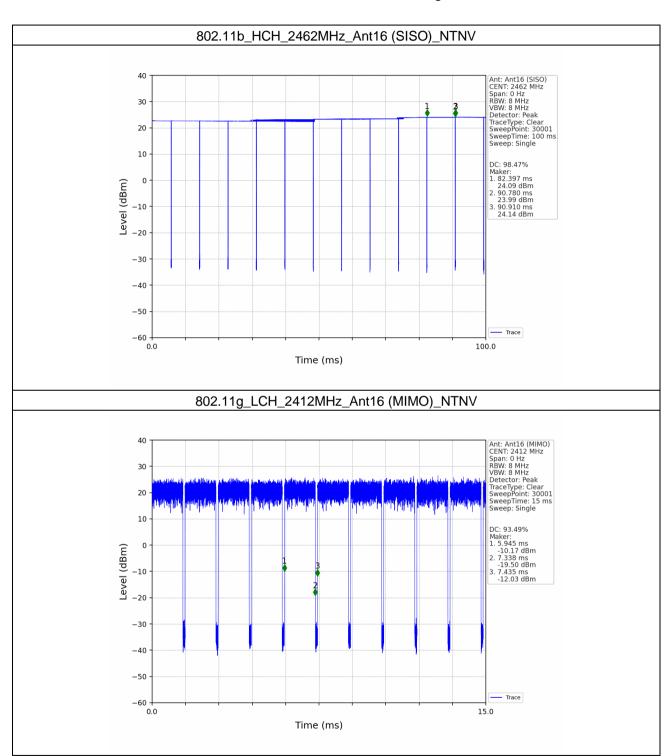
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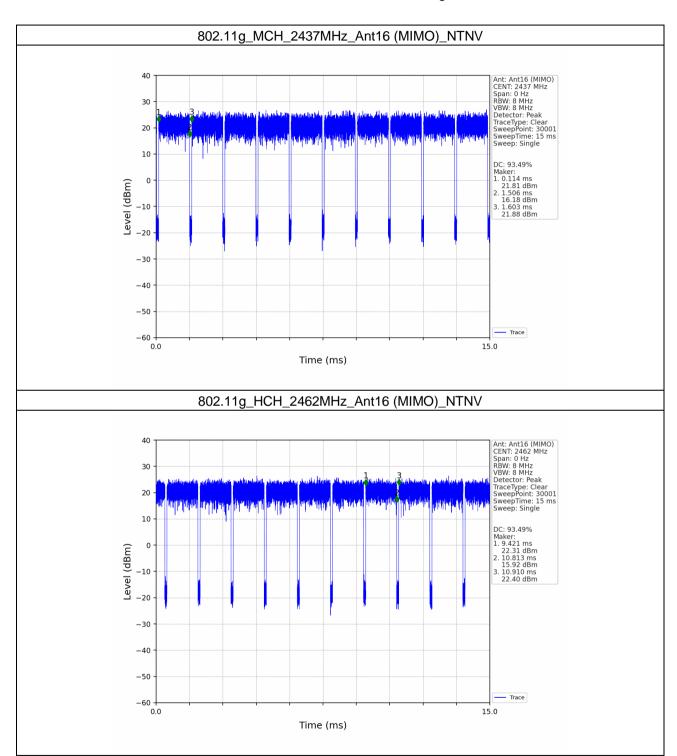
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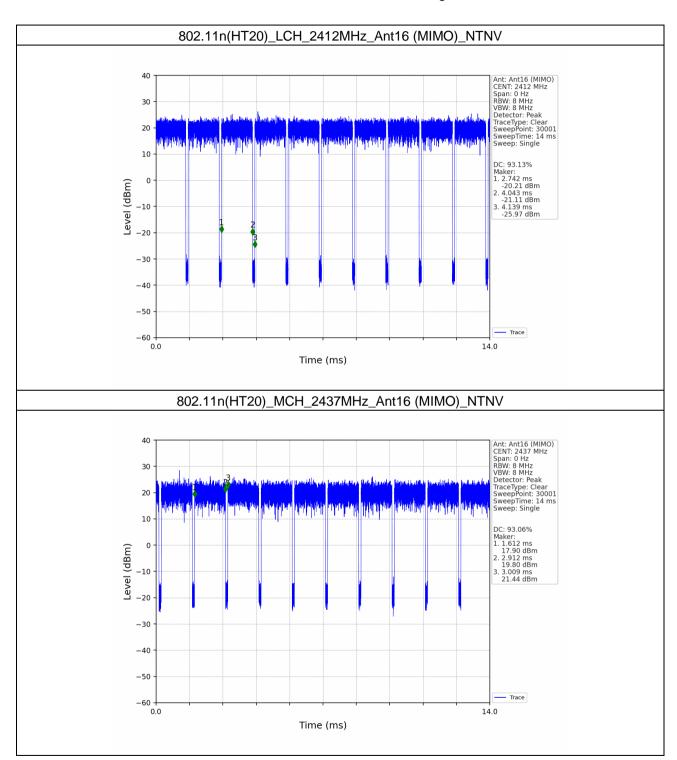
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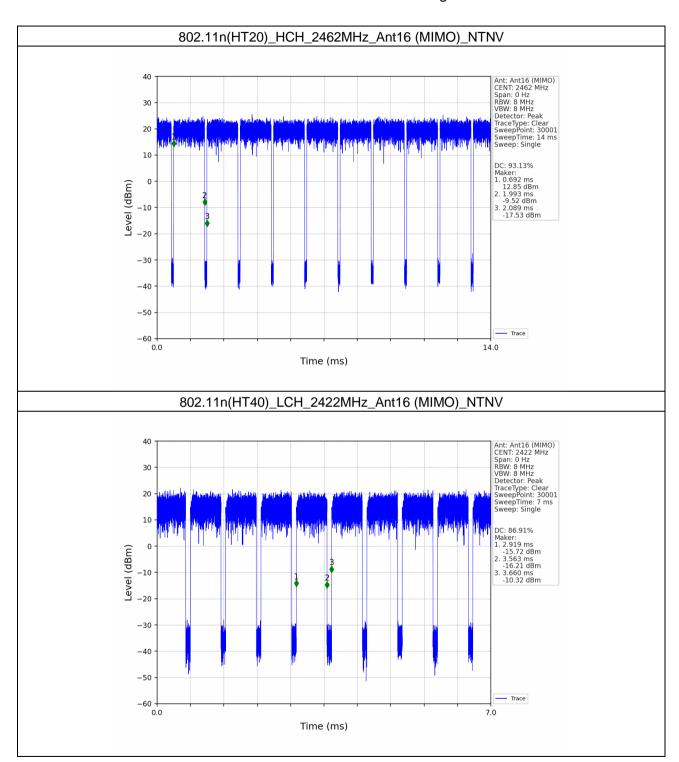
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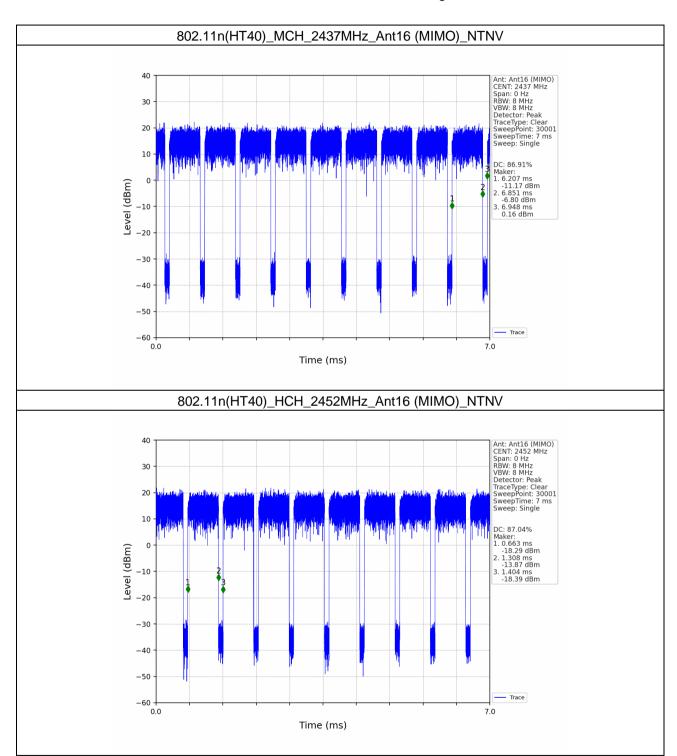
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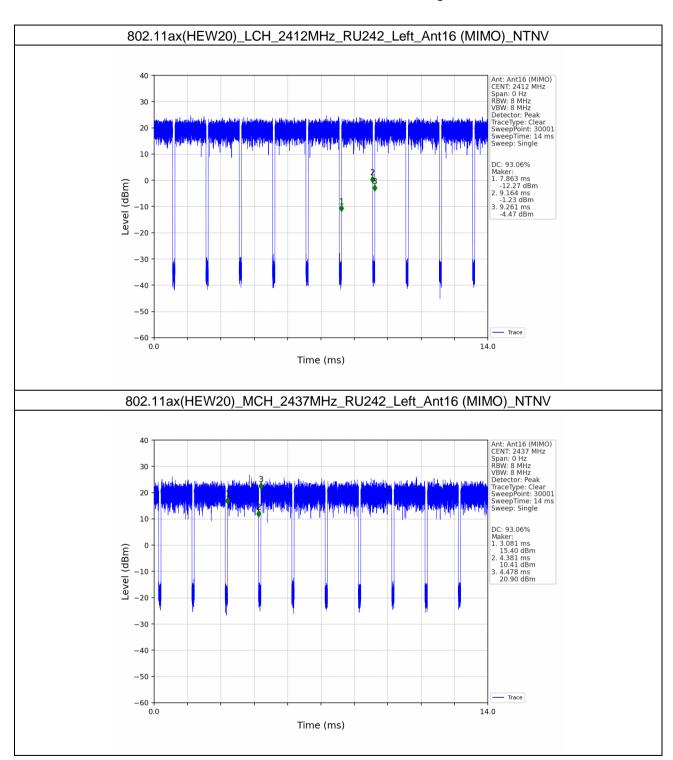
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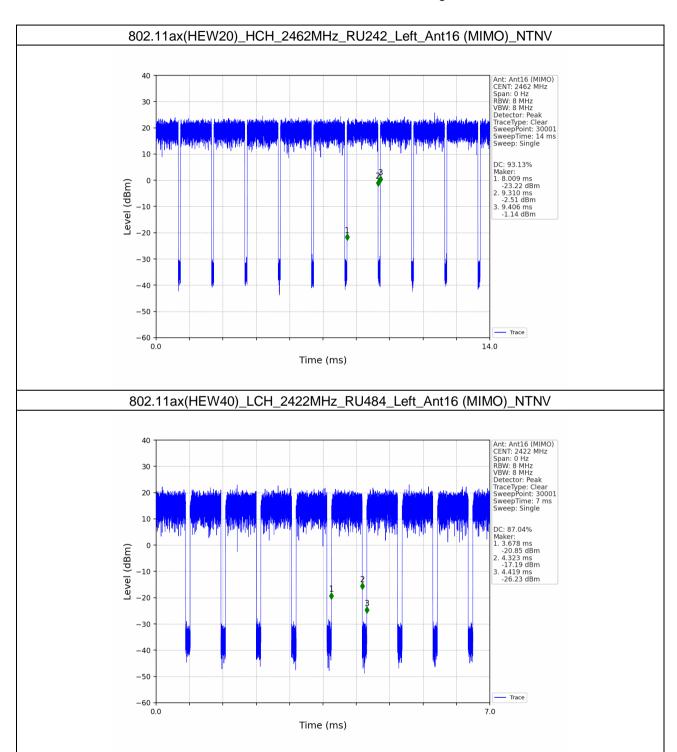
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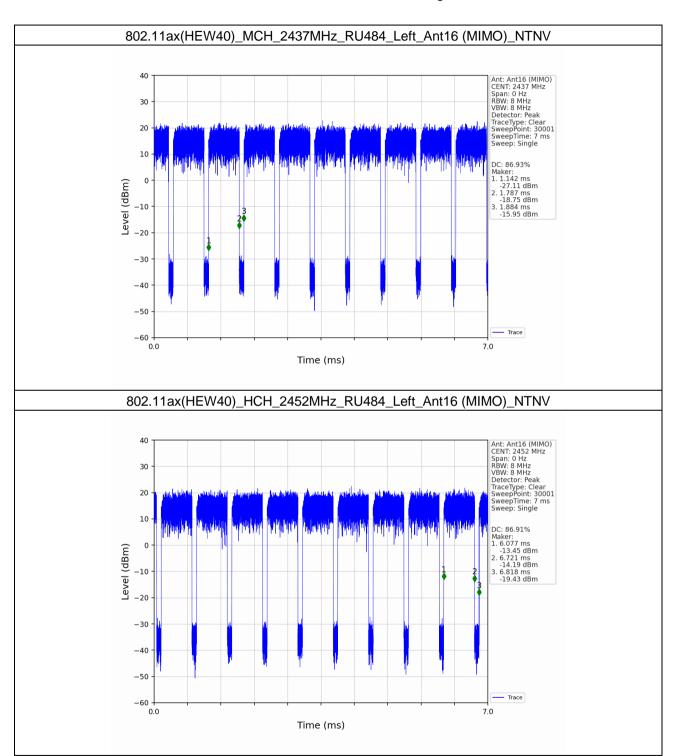
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		ManaPat
						Result	Limit	Verdict
802.11b	SISO	2412	/	/	16	12.777	/	Pass
		2437	/	/	16	12.413	/	Pass
		2462	/	/	16	12.851	/	Pass
802.11g	MIMO	2412	/	/	16	18.894	/	Pass
		2437	/	/	16	17.581	/	Pass
		2462	/	/	16	18.099	/	Pass
802.11n (HT20)	MIMO	2412	/	/	16	19.276	/	Pass
		2437	/	/	16	18.688	/	Pass
		2462	/	/	16	19.200	/	Pass
802.11n (HT40)	MIMO	2422	/	/	16	37.268	/	Pass
		2437	/	/	16	37.746	/	Pass
		2452	/	/	16	37.469	/	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	16	18.968	/	Pass
		2437	RU242	Left	16	18.665	/	Pass
		2462	RU242	Left	16	19.223	/	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	16	37.300	/	Pass
		2437	RU484	Left	16	37.813	/	Pass
		2452	RU484	Left	16	37.456	/	Pass



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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		\/ordiot
						Result	Limit	Verdict
802.11b	SISO	2412	/	/	16	8.098	>=0.5	Pass
		2437	/	/	16	8.022	>=0.5	Pass
		2462	/	/	16	8.101	>=0.5	Pass
802.11g	MIMO	2412	/	/	16	16.297	>=0.5	Pass
		2437	/	/	16	15.660	>=0.5	Pass
		2462	/	/	16	16.046	>=0.5	Pass
802.11n (HT20)	МІМО	2412	/	/	16	17.298	>=0.5	Pass
		2437	/	/	16	16.301	>=0.5	Pass
		2462	/	/	16	16.689	>=0.5	Pass
802.11n (HT40)	МІМО	2422	/	/	16	35.171	>=0.5	Pass
		2437	/	/	16	35.340	>=0.5	Pass
		2452	/	/	16	35.183	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	16	17.530	>=0.5	Pass
		2437	RU242	Left	16	16.519	>=0.5	Pass
		2462	RU242	Left	16	15.758	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	16	35.181	>=0.5	Pass
		2437	RU484	Left	16	35.169	>=0.5	Pass
		2452	RU484	Left	16	35.391	>=0.5	Pass



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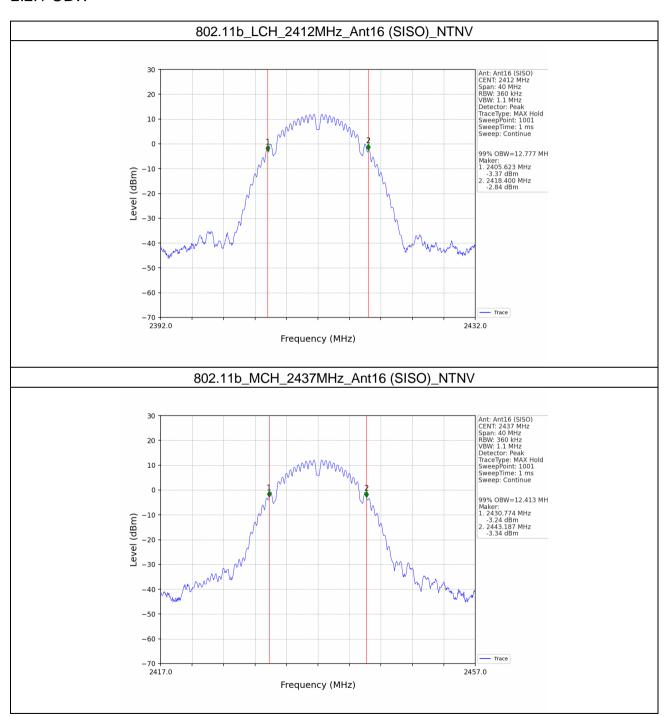
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2.2 Test Graph

2.2.1 OBW





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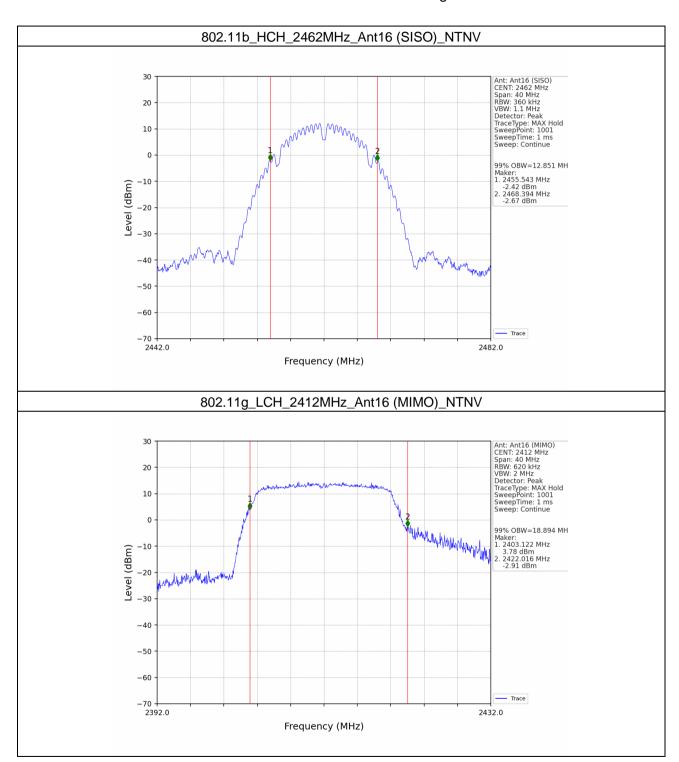
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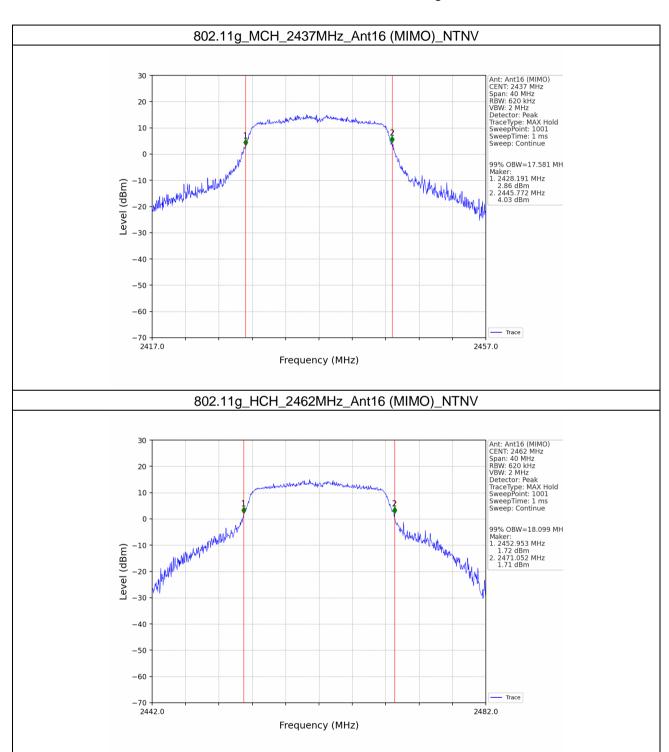
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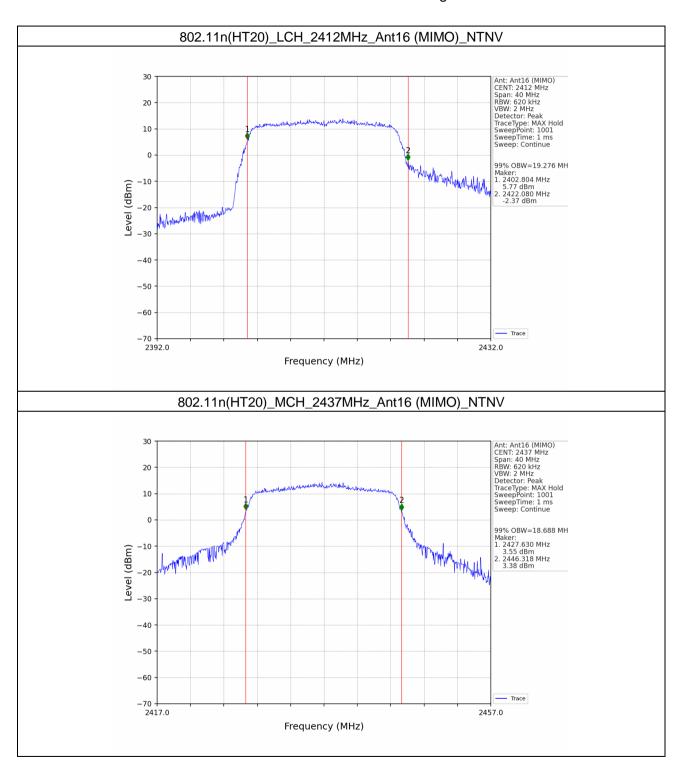
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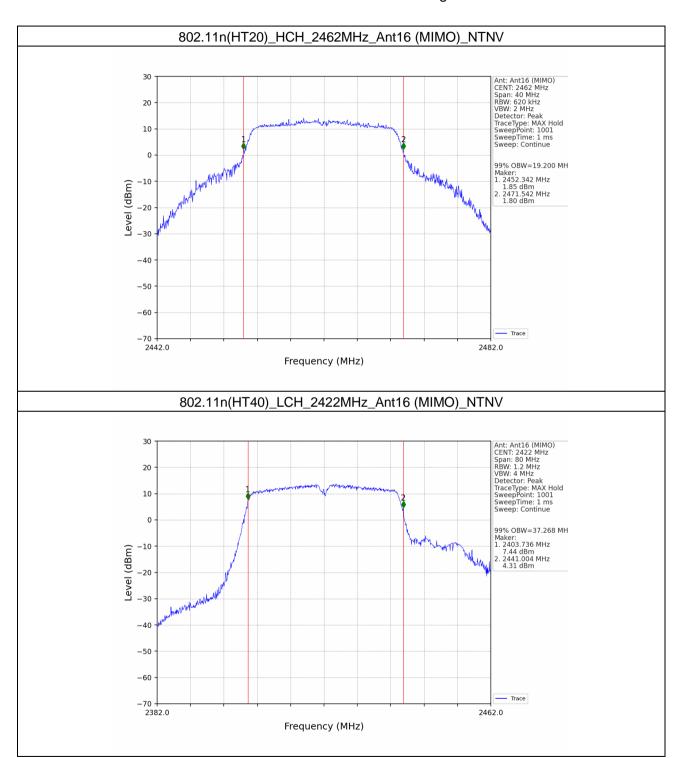
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