



TEST REPORT

Product Name: Smart Portable Monitor
FCC ID: 2BF6E-K16G
Trademark: N/A
Model Number: K16G-Pro
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Sample Received Date: Aug. 19, 2024
Sample tested Date: Aug. 19, 2024 to Sep. 12, 2024
Issue Date: Sep. 12, 2024
Report No.: CTB240826072RFX
Test Standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407
Test Results: PASS
Remark: This is WIFI-5GHz band radio test report.

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB240826072RFX	Sep. 12, 2024	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15 Subpart E Section 15.205/15.407(b)	KDB789033	PASS
Band edge	47 CFR Part 15 Subpart E Section 15.205/15.407(b)	KDB789033	PASS
Conducted Peak Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	KDB789033	PASS
Emission Bandwidth & Occupied Bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)(e)	KDB789033	PASS
Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	KDB789033	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	KDB789033	PASS
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (b)	47 CFR Part 15 Subpart E	PASS
Antenna Requirement	47 CFR Part 15 Subpart E Section 15.203	/	PASS

Remark:

Test according to ANSI C63.10-2013.

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Item	Uncertainty
Occupancy bandwidth	U=±54.3Hz
Adjacent channel power	U=±1.3dB
Conducted Adjacent channel power	U=±1.38dB
Conducted output power Above 1G	U=±1.0dB
Conducted output power below 1G	U=±0.9dB
Power Spectral Density , Conduction	U=±1.0dB
Conduction spurious emissions	U=±2.8dB
Out of band emission	U=±54Hz
3m camber Radiated spurious emission(9KHz-30MHz)	U=±4.8dB
3m camber Radiated spurious emission(30MHz-1GHz)	U=±4.3dB
3m chamber Radiated spurious emission(1GHz-18GHz)	U=±4.5dB
3m chamber Radiated spurious emission(18GHz-40GHz)	U=±3.4dB
humidity uncertainty	U=±5.3%
Temperature uncertainty	U=±0.59℃
Supply voltages	U=±3%
Time	U=±5%
Conducted emission(150K-30MHz)	3.2dB

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	K16G-Pro
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11a/n/ac
Hardware Version:	Motherboard: HF-JDHK-CBR7-N-V2.1 Key plate: HW: HF-JDHK-KEY-V2.0 Android power supply board: HW: HF-AN-V2.0
Software Version:	HF-JDHK-CBR7-N-V1.0
Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz/ 4 channel IEEE 802.11n/ac(40M): 5250MHz ~5350 MHz/ 2 channel IEEE 802.11ac(80M): 5250MHz ~5350 MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5470MHz ~5725 MHz/ 11 channel IEEE 802.11n/ac(40M): 5470MHz ~5725 MHz/ 5 channel IEEE 802.11ac(80M): 5470MHz ~5725 MHz/ 3 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel
Max. RF output power:	WiFi (5G): 7.991dBm
Type of Modulation:	WiFi (5G): OFDM
Antenna installation:	WiFi (5G): Internal antenna WiFi (5.2G): ANT1: 1.90dBi, ANT2: 1.90dBi WiFi (5.3G): ANT1: 2.13dBi, ANT2: 2.13dBi WiFi (5.6G): ANT1: 0.71dBi, ANT2: 0.71dBi WiFi (5.8G): ANT1: -1.65dBi, ANT2: -1.65dBi
Antenna Gain:	
Ratings:	ADAPTER: Input: 100-240V~50/60Hz 2.0A Max Output: 5.0V === 3.0A or 9.0V === 3.0A or 12.0V === 3.0A or 15.0V === 3.0A or 20.0V === 2.25A

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	Monitor	DELL	SE2218HV	N/A	AE
2.	Laptop	DELL	Vostro 5490	N/A	AE
3	SWITCHING ADAPTER	GangQi	GQ45PD02-ZU	N/A	AE

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

For 802.11a/n/ac(20M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz
For 802.11a/n/ac(20M) Operation in the 5250MHz ~5350 MHz band			
Channel	Frequency	Channel	Frequency
52	5260MHz	60	5300MHz
56	5280MHz	64	5320MHz
For 802.11a/n/ac(20M) Operation in the 5470MHz ~5725 MHz band			
Channel	Frequency	Channel	Frequency
100	5500MHz	124	5620 MHz
104	5520MHz	128	5640 MHz
108	5540MHz	132	5660 MHz
112	5560MHz	136	5680MHz
116	5580MHz	140	5700MHz
120	5600 MHz		
For 802.11a/n/ac(20M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz	NA	NA

For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11n/ac(40M) Operation in the 5250MHz ~5350 MHz band			
Channel	Frequency	Channel	Frequency
54	5270MHz	62	5310MHz
For 802.11n/ac(40M) Operation in the 5470MHz ~5725 MHz band			
Channel	Frequency	Channel	Frequency
102	5510MHz	126	5630MHz
110	5550MHz	134	5670MHz
118	5590MHz		
For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
42	5210MHz	NA	NA
For 802.11ac(80M) Operation in the 5250MHz ~5350 MHz band			
Channel	Frequency	Channel	Frequency
58	5290MHz	NA	NA
For 802.11ac(80M) Operation in the 5470MHz ~5725 MHz band			
Channel	Frequency	Channel	Frequency
106	5530MHz	138	5690MHz
122	5610 MHz		
For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	NA	NA
155	5775MHz	NA	NA

NOTE: Dutycycle>98%.

Test mode	rate
802.11a	54M
802.11n	500M
802.11/ac	500M

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(40M)		Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(80M)	5250MHz ~5350 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac(20M)		Channel 52	Channel 56	Channel 64
		5260MHz	5280MHz	5320MHz
802.11n/ac(40M)	5470MHz ~5725 MHz	Channel 54	N/A	Channel 62
		5270MHz	N/A	5310MHz
802.11ac(80M)		N/A	Channel 58	N/A
		N/A	5290MHz	N/A
802.11a/n/ac(20M)	5725MHz ~5850 MHz	Channel 100	Channel 116	Channel 140
		5500MHz	5580MHz	5700MHz
802.11n/ac(40M)		Channel 102	N/A	Channel 134
		5510MHz	N/A	5670MHz
802.11ac(80M)	5775MHz ~5850 MHz	N/A	Channel 106	N/A
		N/A	5530MHz	N/A
802.11a/n/ac(20M)		Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac(40M)	5775MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11ac(80M)	5775MHz ~5850 MHz	N/A	Channel 155	N/A
		N/A	5775MHz	N/A

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(AC):NV	120V
Normal Temperature(°C):NT	23
Low Temperature(°C):LT	0
High Temperature(°C):HT	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinh Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/6/28
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/6/28
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/6/28
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/6/28
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/6/28
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/6/28
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/6/28
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2025/6/30
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/6/28
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/6/28
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2027/6/21
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/6/28
18	Amplifier	HP	8447E	2945A02747	/	2025/6/28
19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/28
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/28

22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/28
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/28
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/28
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/28

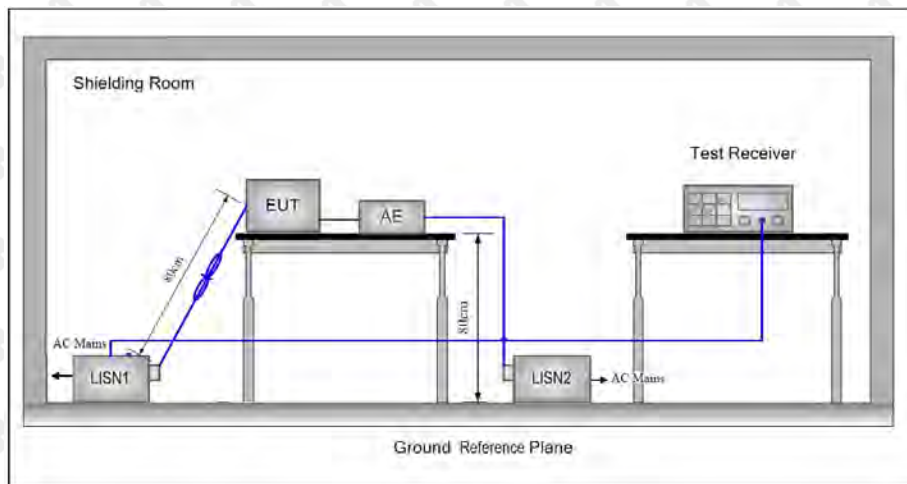
Continuous disturbance						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2027/6/21
2	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	/	2025/6/30
3	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	/	2025/6/28
4	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428	V4.42.SP3	2025/6/30
5	Coaxial cable	ZDECL	Z302S	18091904	/	2025/6/30
6	ISN	Schwarzbeck	NTFM8158	183	/	2025/6/30
7	Voltage sensor	Schwarzbeck	TK 9420	01189	/	2024/11/16
8	EZ-EMC	Frad	EMC-con3A1.1	/	/	/
9	Current Probe	FCC	F-52B	199453	/	2025/5/27
10	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2025/6/28
11	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2025/6/28

Radiated emission(No.2 Chamber)						
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2026/11/14
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2026/7/07
3	Broadband Antenna	Schwarzbeck	VULB 9168	1471	/	2025/7/06
4	Amplifier	Agilent	8449B	3008A01838	/	2025/6/30
5	Preamplifier	Schwarzbeck	BBV 9743 B	00500	/	2025/5/23
6	EMI TEST RECEIVER	R&S	ESCI7	100861	/	2024/11/27
7	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
8	EMI test software	Farad	EZ-EMC	/	Ver. FARAD-3A1+	/
9	Coaxial cable	Rosenberg	8m	/	/	2024/11/27
10	Coaxial cable	Times	2m	/	/	2024/11/27
11	Coaxial cable	Times	2m	/	/	2024/11/27

12	Coaxial cable	Times	1m	/	/	2024/11/27
13	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/29
14	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2025/6/28
15	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2025/6/28

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

Table 4 – AC power-line conducted emissions limits

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5 - 5	56	46
5 - 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

* Decreasing linearly with the logarithm of the frequency

6.3 Test procedure

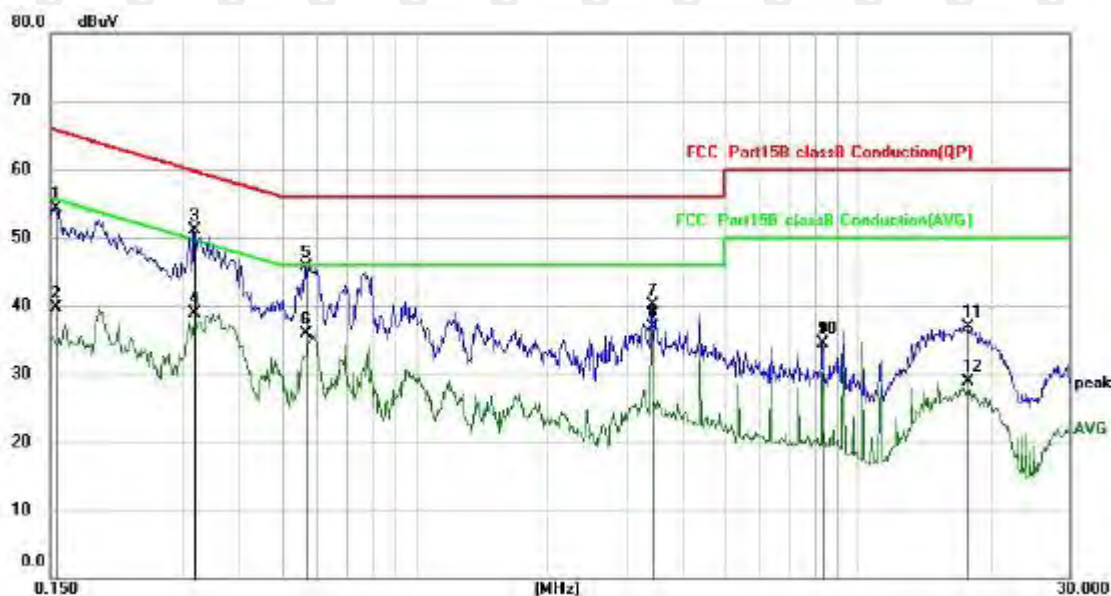
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50 Ω /50 μ H + 5 Ω linear impedance. The power cables of all other units of the EUT were connected 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.

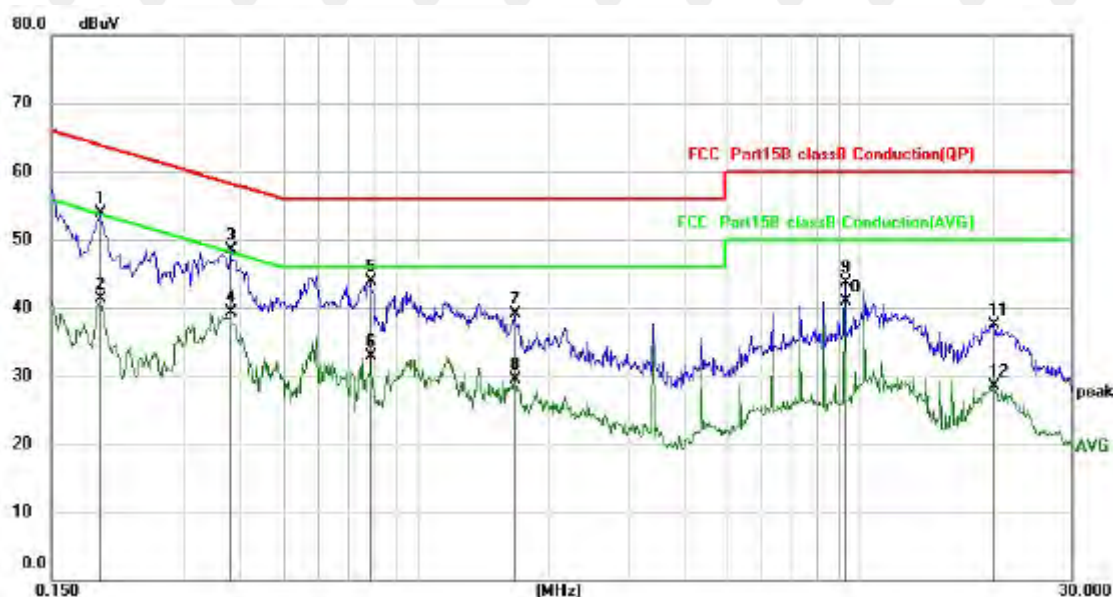
6.4 Test Result

L:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1547	43.51	10.87	54.38	65.74	-11.36	QP
2		0.1547	28.84	10.87	39.71	55.74	-16.03	AVG
3	*	0.3180	40.53	10.63	51.16	59.76	-8.60	QP
4		0.3180	28.32	10.63	38.95	49.76	-10.81	AVG
5		0.5655	35.05	10.57	45.62	56.00	-10.38	QP
6		0.5655	25.38	10.57	35.95	46.00	-10.05	AVG
7		3.4260	28.19	11.89	40.08	56.00	-15.92	QP
8		3.4260	25.05	11.89	36.94	46.00	-9.06	AVG
9		8.3215	21.34	13.07	34.41	60.00	-25.59	QP
10		8.3215	21.37	13.07	34.44	50.00	-15.56	AVG
11		17.7419	23.42	13.48	36.90	60.00	-23.10	QP
12		17.7419	15.33	13.48	28.81	50.00	-21.19	AVG

N:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1940	43.21	10.73	53.94	63.86	-9.92	QP
2		0.1940	30.58	10.73	41.31	53.86	-12.55	AVG
3		0.3820	37.87	10.58	48.45	58.24	-9.79	QP
4	*	0.3820	28.66	10.58	39.24	48.24	-9.00	AVG
5		0.7900	33.11	10.79	43.90	56.00	-12.10	QP
6		0.7900	22.04	10.79	32.83	46.00	-13.17	AVG
7		1.6700	27.80	11.37	39.17	56.00	-16.83	QP
8		1.6700	18.22	11.37	29.59	46.00	-16.41	AVG
9		9.2979	30.53	13.17	43.70	60.00	-16.30	QP
10		9.2979	27.81	13.17	40.98	50.00	-9.02	AVG
11		20.0537	23.83	13.59	37.42	60.00	-22.58	QP
12		20.0537	14.84	13.59	28.43	50.00	-21.57	AVG

Remark:

- Factor = Cable loss + LISN factor, Margin = Limit – Level
- All modes were tested at AC 120V and 240V, only the worst result of AC 120V 60Hz was reported.
- All the test modes completed for test. Only the worst result of was reported.

7. RADIATED SPURIOUS EMISSIONS

7.1 Block Diagram Of Test Setup

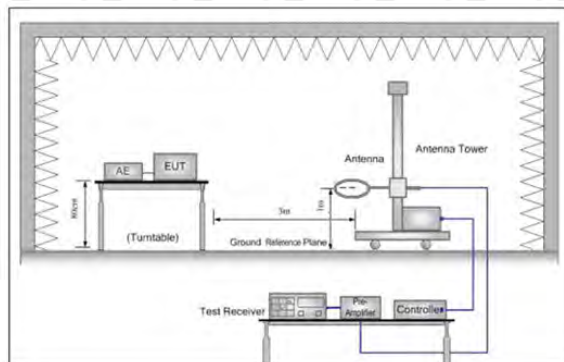


Figure 1. Below 30MHz

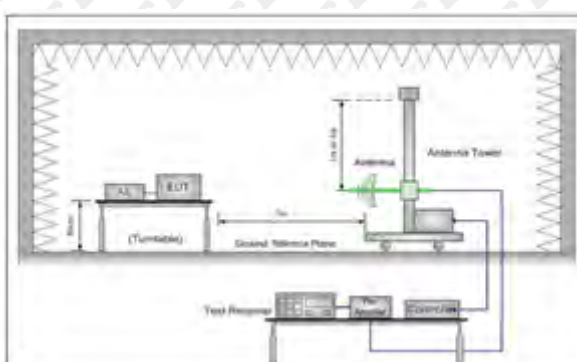


Figure 2. 30MHz to 1GHz

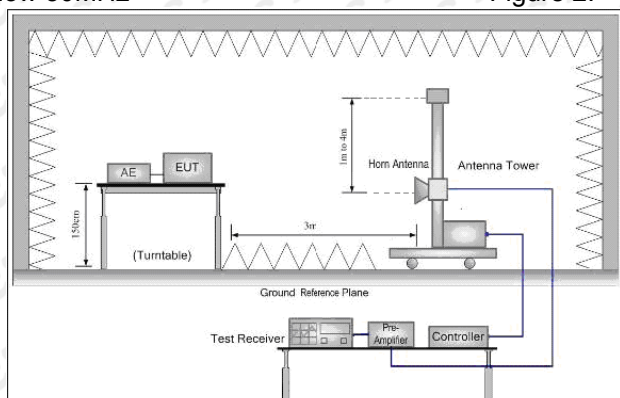


Figure 3. Above 1GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (dBμV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	$20\log 2400/F \text{ (kHz)} + 80$	Quasi-peak	3
0.490MHz-1.705MHz	$20\log 24000/F \text{ (kHz)} + 40$	Quasi-peak	3
1.705MHz-30MHz	$20\log 30 + 40$	Quasi-peak	3
30MHz-88MHz	40.0	Quasi-peak	3
88MHz-216MHz	43.5	Quasi-peak	3
216MHz-960MHz	46.0	Quasi-peak	3
960MHz-1GHz	54.0	Quasi-peak	3
Above 1GHz	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

If radiated measurements are performed, field strength is then converted to EIRP as follows:

(i) $EIRP = ((E \cdot d)^2) / 30$

where:

- E is the field strength in V/m;
 - d is the measurement distance in meters;
 - EIRP is the equivalent isotropically radiated power in watts.
- (ii) Working in dB units, the above equation is equivalent to:
 $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$
- (iii) Or, if d is 3 meters:
 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

7.3 Test procedure

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- Repeat above procedures until all frequencies measured was complete.

Receiver set:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

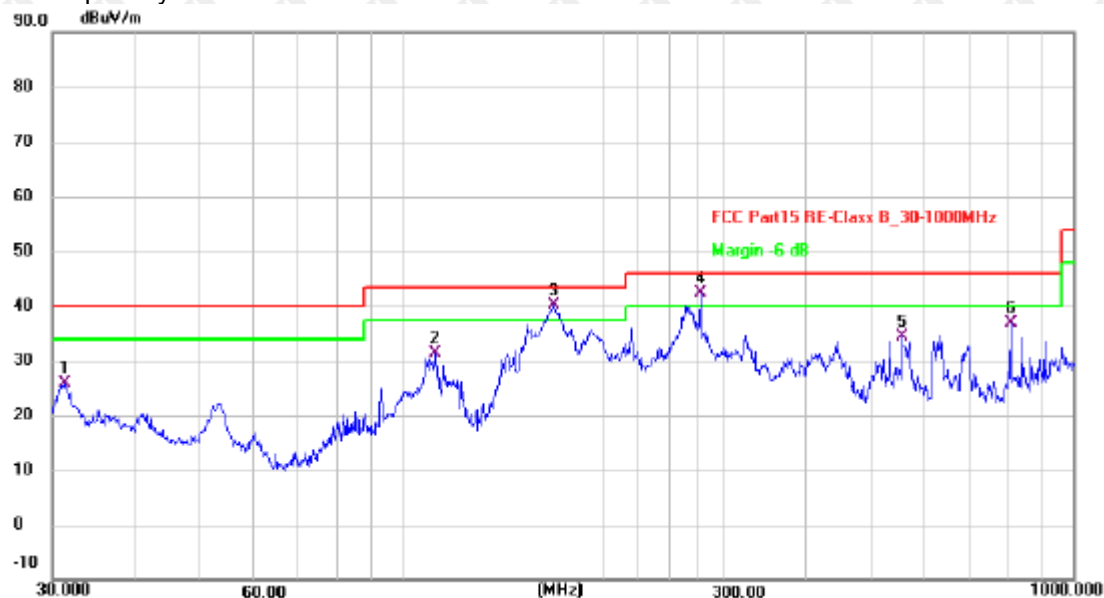
7.4 Test Result

30MHz-1GHzTest Results:

Modulation : 802.11a (the worst data)

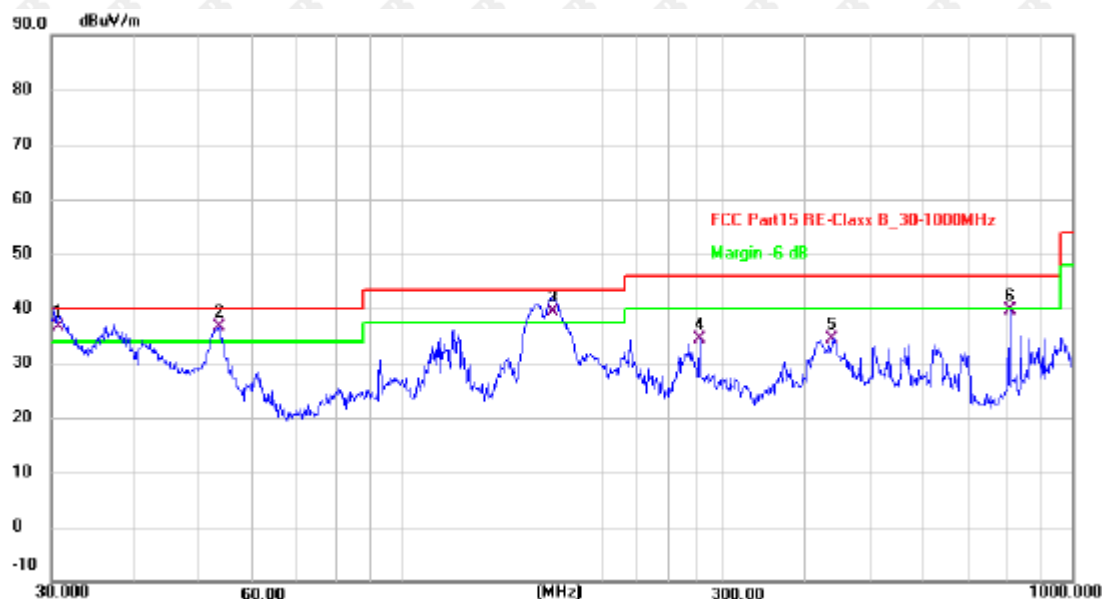
Test Channel : 5780MHz

Antenna polarity: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.2892	38.89	-13.00	25.89	40.00	-14.11	QP
2	111.7380	48.15	-16.88	31.27	43.50	-12.23	QP
3 *	167.8242	54.14	-14.13	40.01	43.50	-3.49	QP
4 !	278.0668	57.24	-14.92	42.32	46.00	-3.68	QP
5	554.8254	42.17	-7.73	34.44	46.00	-11.56	QP
6	807.4290	39.40	-2.54	36.86	46.00	-9.14	QP

Antenna polarity: V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.8423	49.70	-12.97	36.73	40.00	-3.27	QP
2 !	53.3180	51.30	-14.60	36.70	40.00	-3.30	QP
3 !	167.9866	53.53	-14.15	39.38	43.50	-4.12	QP
4	278.0668	49.34	-14.92	34.42	46.00	-11.58	QP
5	438.6554	45.58	-11.21	34.37	46.00	-11.63	QP
6	807.4290	42.19	-2.54	39.65	46.00	-6.35	QP

Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

1.The margin of 9K-30MH measurement exceeds 20dB, so the test chart is not included. Test Mode: 802.11a20 (the worst)

Radiated Spurious Emission (Above 1GHz):

Modulation : 802.11(a) (the worst data)

Freq (MHz)	Rd_level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	detector	Height	Degree	Antenna polarization
Channel:5180MHz									
10360	41.48	16.39	57.87	74	-16.13	PK	1.28	296	H
10360	25.46	16.39	41.85	54	-12.15	AV	1.22	187	H
10360	41.96	16.39	58.35	74	-15.65	PK	1.53	186	V
10360	27.23	16.39	43.62	54	-10.38	AV	1.43	156	V
Channel:5240MHz									
10480	41.48	16.11	57.59	74	-16.41	PK	1.85	167	H
10480	27.35	16.11	43.46	54	-10.54	AV	1.73	340	H
10480	39.83	16.11	55.94	74	-18.06	PK	1.78	195	V
10480	25.10	16.11	41.21	54	-12.79	AV	1.53	263	V
Channel:5260MHz									
10520	40.07	16.39	56.46	74	-17.54	PK	1.24	89	H
10520	25.43	16.39	41.82	54	-12.18	AV	1.31	336	H
10520	39.49	16.39	55.88	74	-18.12	PK	1.20	184	V
10520	26.60	16.39	42.99	54	-11.01	AV	1.47	200	V
Channel:5320MHz									
10640	40.43	16.39	56.82	74	-17.18	PK	1.34	67	H
10640	26.90	16.39	43.29	54	-10.71	AV	1.60	252	H
10640	40.94	16.39	57.33	74	-16.67	PK	1.20	20	V
10640	25.65	16.39	42.04	54	-11.96	AV	1.59	259	V
Channel:5500MHz									
11000	39.80	16.39	56.19	74	-17.81	PK	1.08	2	H
11000	25.37	16.39	41.76	54	-12.24	AV	1.31	70	H
11000	41.44	16.39	57.83	74	-16.17	PK	1.47	122	V
11000	25.92	16.39	42.31	54	-11.69	AV	1.52	255	V
Channel:5700MHz									
11400	41.34	16.39	57.73	74	-16.27	PK	1.49	332	H
11400	26.69	16.39	43.08	54	-10.92	AV	1.21	114	H
11400	41.74	16.39	58.13	74	-15.87	PK	1.05	184	V
11400	25.68	16.39	42.07	54	-11.93	AV	1.54	198	V

Channel:5745MHz									
11490	39.35	17.46	56.81	74	-17.19	PK	1.13	16	H
11490	27.42	17.46	44.88	54	-9.12	AV	1.14	69	H
11490	40.56	17.46	58.02	74	-15.98	PK	1.77	41	V
11490	26.29	17.46	43.75	54	-10.25	AV	1.55	196	V
Channel:5825MHz									
11650	40.44	17.57	58.01	74	-15.99	PK	1.03	185	H
11650	25.94	17.57	43.51	54	-10.49	AV	1.49	185	H
11650	41.06	17.57	58.63	74	-15.37	PK	1.16	250	V
11650	26.46	17.57	44.03	54	-9.97	AV	1.28	241	V

Modulation : 802.11(n40) (the worst data)

Freq (MHz)	Rd_level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	detector	Height	Degree	Antenna polarization
Channel:5190MHz									
10380	39.73	16.34	56.07	74	-17.93	PK	1.19	166	H
10380	25.09	16.34	41.43	54	-12.57	AV	1.16	52	H
10380	40.06	16.34	56.40	74	-17.60	PK	1.06	80	V
10380	25.82	16.34	42.16	54	-11.84	AV	1.26	89	V
Channel:5230MHz									
10460	39.51	16.15	55.66	74	-18.34	PK	1.63	48	H
10460	27.84	16.15	43.99	54	-10.01	AV	1.00	318	H
10460	41.98	16.15	58.13	74	-15.87	PK	1.29	43	V
10460	25.98	16.15	42.13	54	-11.87	AV	1.64	134	V

Channel:5270MHz									
10540	41.91	16.34	58.25	74	-15.75	PK	1.64	109	H
10540	25.79	16.34	42.13	54	-11.87	AV	1.24	82	H
10540	40.89	16.34	57.23	74	-16.77	PK	1.73	192	V
10540	27.09	16.34	43.43	54	-10.57	AV	1.13	19	V
Channel:5310MHz									
10620	40.10	16.34	56.44	74	-17.56	PK	1.78	95	H
10620	25.84	16.34	42.18	54	-11.82	AV	1.50	191	H
10620	40.44	16.34	56.78	74	-17.22	PK	1.04	152	V

10620	27.73	16.34	44.07	54	-9.93	AV	1.46	118	V
Channel:5510MHz									
11020	39.04	16.34	55.38	74	-18.62	PK	1.83	133	H
11020	25.49	16.34	41.83	54	-12.17	AV	1.34	209	H
11020	39.96	16.34	56.30	74	-17.70	PK	1.32	350	V
11020	25.94	16.34	42.28	54	-11.72	AV	1.35	247	V
Channel:5670MHz									
11340	40.20	16.34	56.54	74	-17.46	PK	1.64	345	H
11340	26.48	16.34	42.82	54	-11.18	AV	1.28	106	H
11340	40.95	16.34	57.29	74	-16.71	PK	1.82	229	V
11340	26.77	16.34	43.11	54	-10.89	AV	1.52	321	V

Channel:5755MHz									
11510	40.25	17.49	57.74	74	-16.26	PK	1.36	41	H
11510	27.64	17.49	45.13	54	-8.87	AV	1.61	292	H
11510	41.71	17.49	59.20	74	-14.80	PK	1.18	276	V
11510	26.69	17.49	44.18	54	-9.82	AV	1.69	346	V
Channel:5795MHz									
11590	41.98	17.52	59.50	74	-16.39	PK	1.17	328	H
11590	26.65	17.52	44.17	54	-14.50	AV	1.44	247	H
11590	41.05	17.52	58.57	74	-15.43	PK	1.69	5	V
11590	27.30	17.52	44.82	54	-9.18	AV	1.32	272	V

Modulation : 802.11(VH80) (the worst data)

Freq (MHz)	Rd_level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	detector	Height	Degree	Antenna polarization
Channel:5210MHz									
10420	41.24	16.25	57.49	74	-16.51	PK	1.34	182	H
10420	26.63	16.25	42.88	54	-11.12	AV	1.52	156	H
10420	41.61	16.25	57.86	74	-16.14	PK	1.67	189	V
10420	27.08	16.25	43.33	54	-10.67	AV	1.37	299	V
Channel:5290MHz									
10580	39.40	16.25	55.65	74	-18.35	PK	1.87	347	H
10580	25.01	16.25	41.26	54	-12.74	AV	1.08	324	H

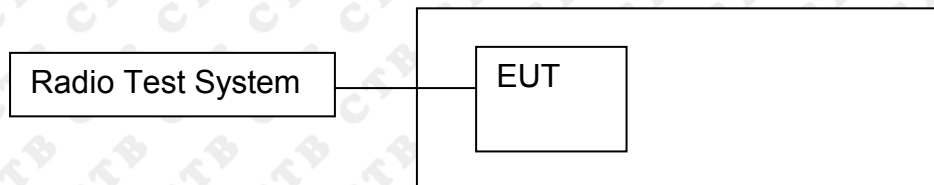
10580	40.17	16.25	56.42	74	-17.58	PK	1.49	328	V
10580	26.12	16.25	42.37	54	-11.63	AV	1.44	61	V
Channel:5530MHz									
11060	40.49	17.50	57.99	74	-16.01	PK	1.37	33	H
11060	26.75	17.50	44.25	54	-9.75	AV	1.76	151	H
11060	40.36	17.50	57.86	74	-16.14	PK	1.21	267	V
11060	25.17	17.50	42.67	54	-11.33	AV	1.22	115	V
Channel:5775MHz									
11550	40.63	17.50	58.13	74	-15.87	PK	1.17	115	H
11550	27.21	17.50	44.71	54	-9.29	AV	1.43	121	H
11550	41.73	17.50	59.23	74	-14.77	PK	1.17	80	V
11550	25.52	17.50	43.02	54	-10.98	AV	1.45	333	V

Remark:

- 1.Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits
- 2.The EUT was tested in the low, high channel and the worst case position data was reported.
- 3.Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. BAND EDGE

8.1 Block Diagram Of Test Setup



8.2 Limit

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

8.3 Test procedure

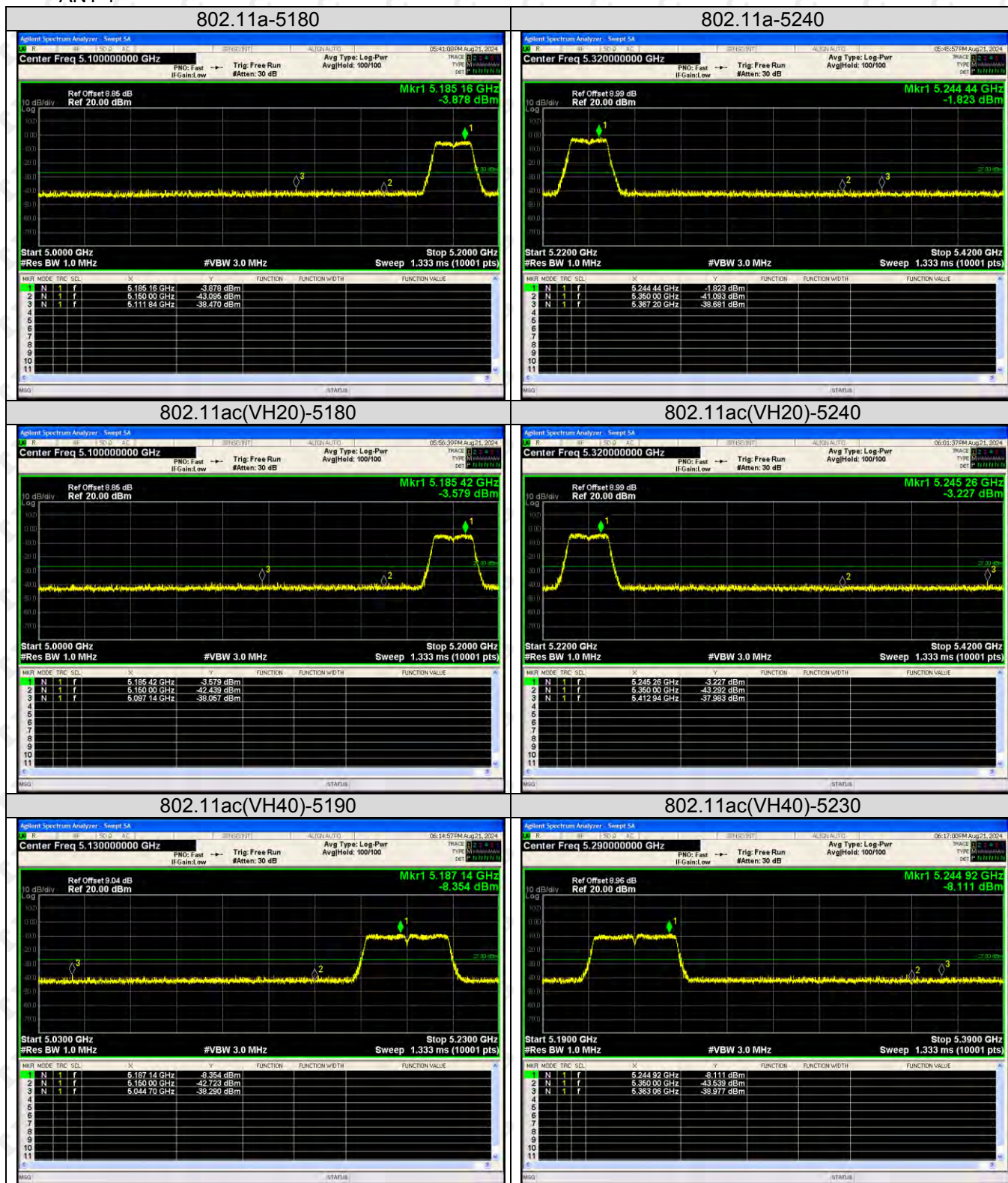
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

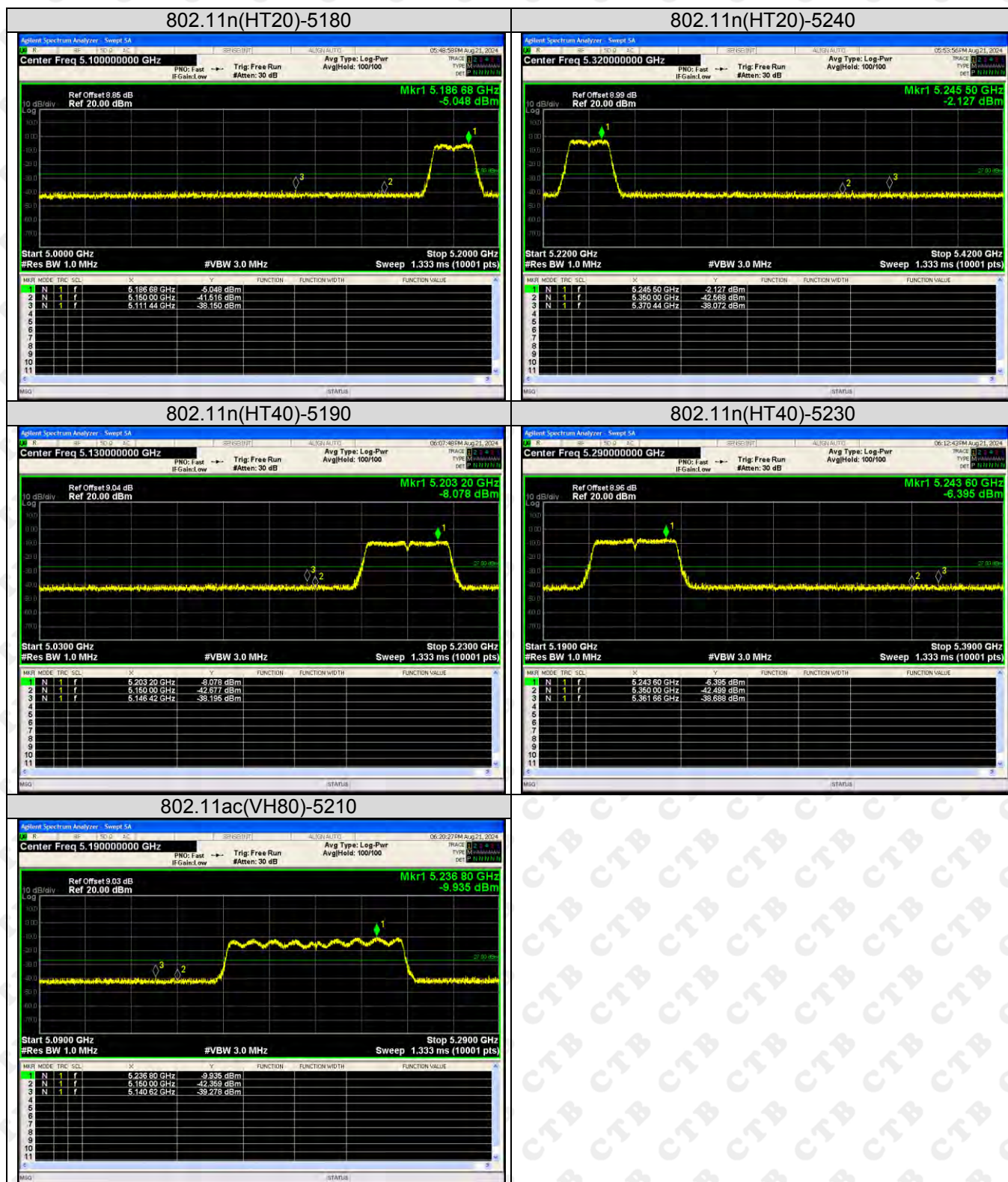
8.4 Test Result

Test Graph

5150-5250MHz:

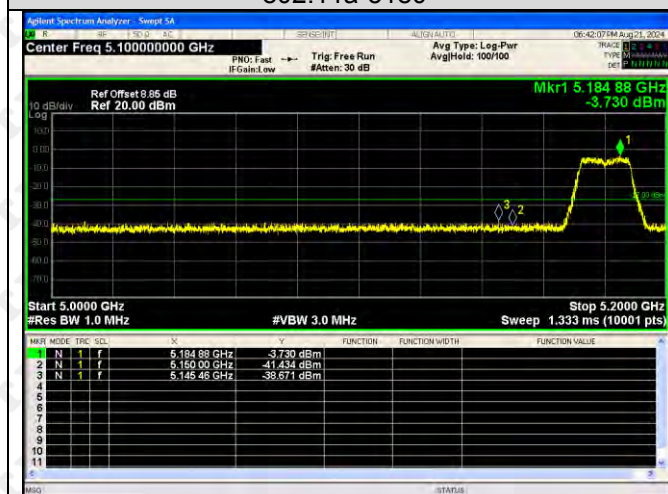
ANT 1





ANT 2

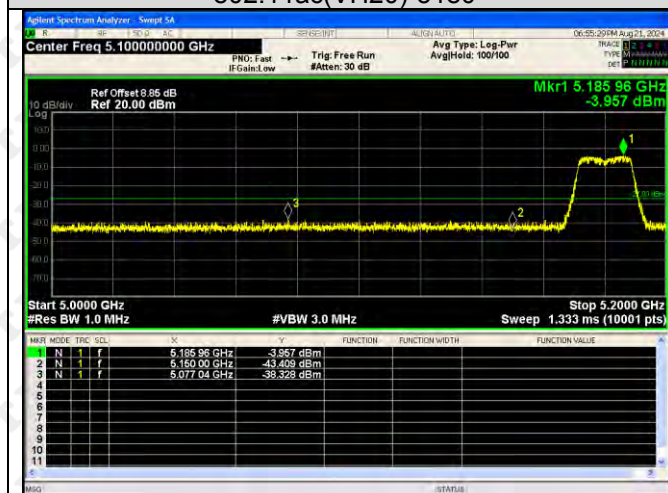
802.11a-5180



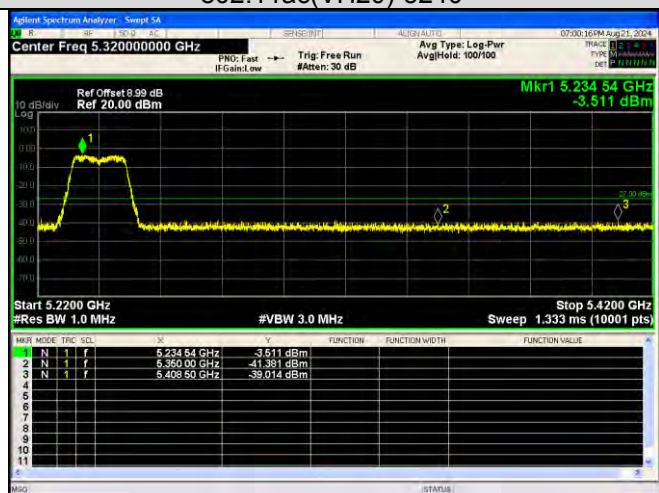
802.11a-5240



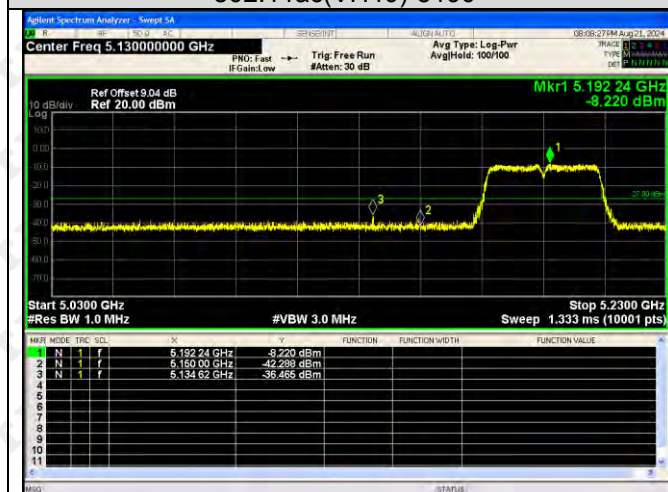
802.11ac(VH20)-5180



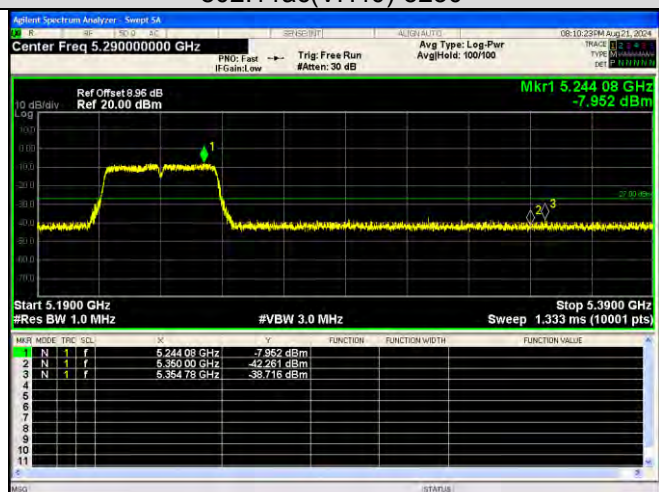
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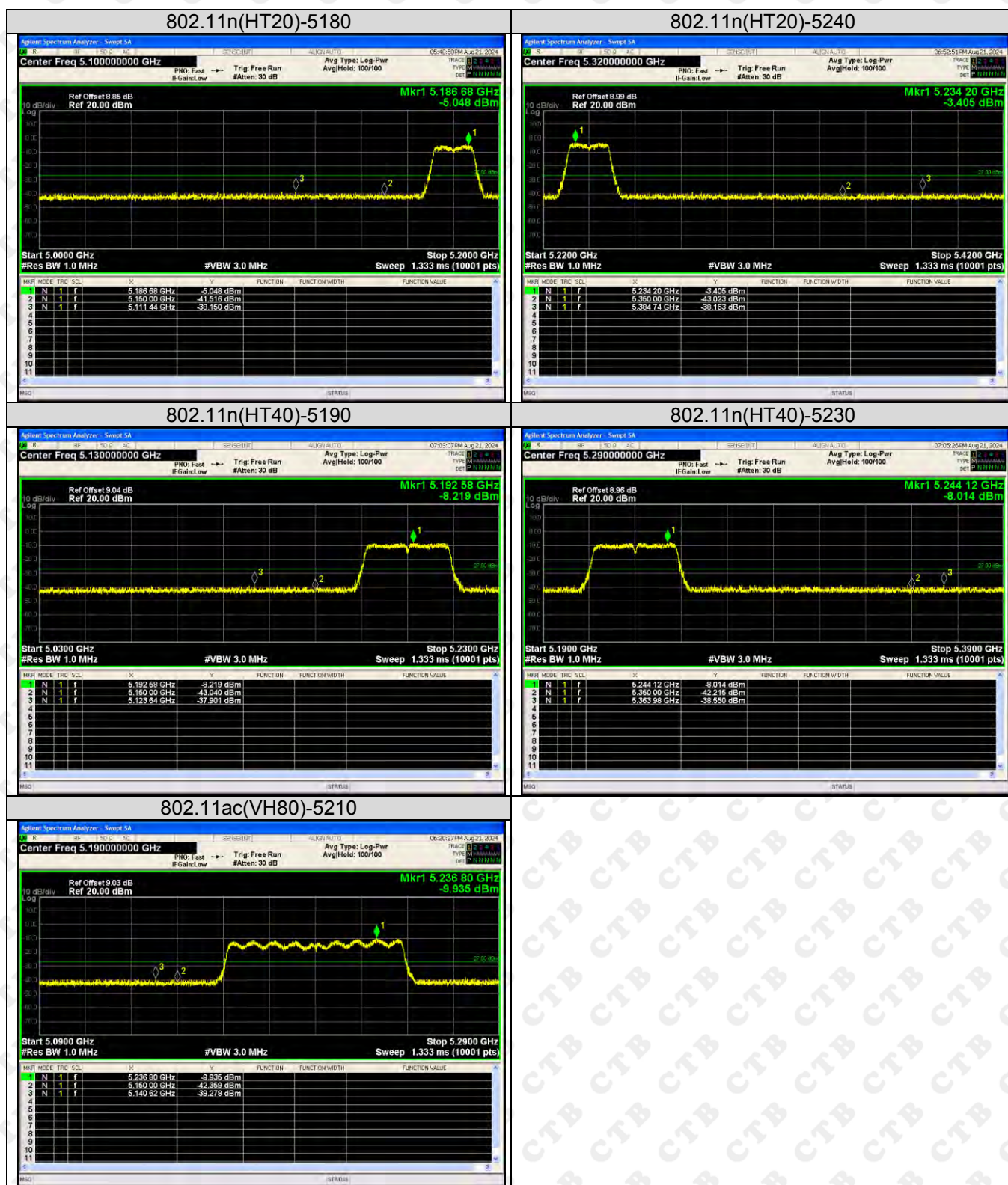


802.11ac(VH40)-5190

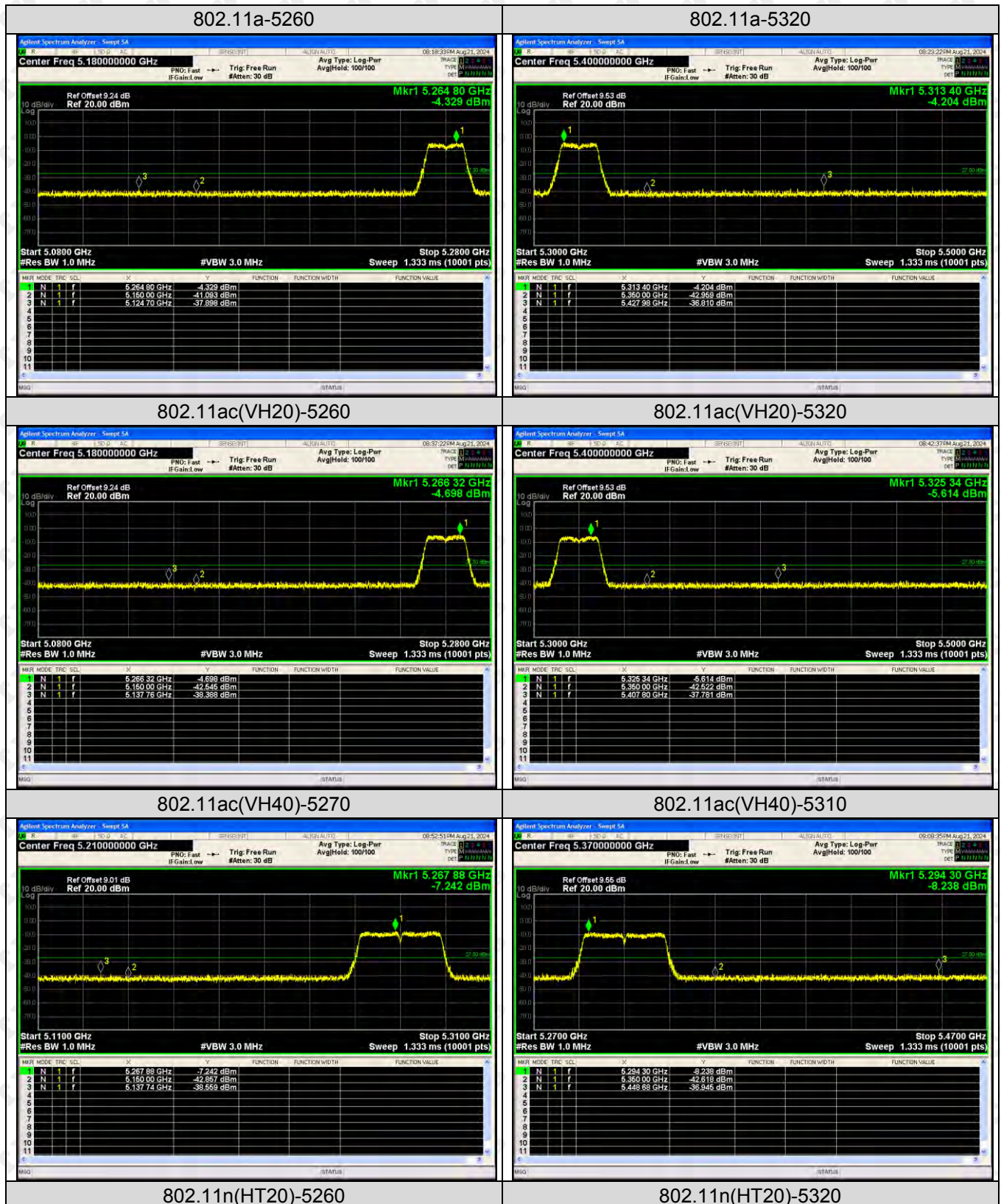


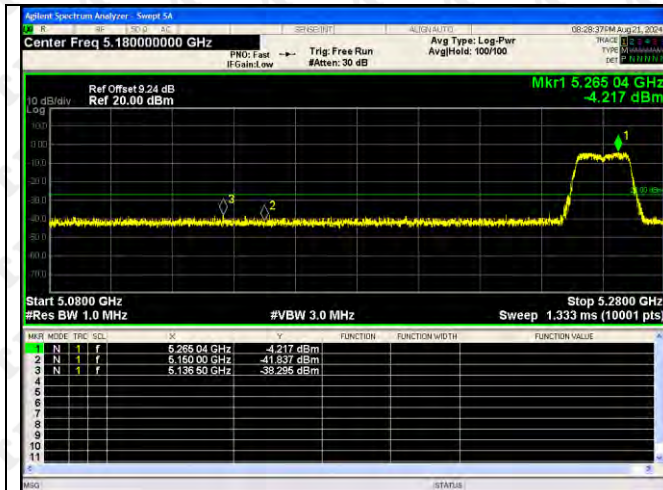
802.11ac(VH40)-5230



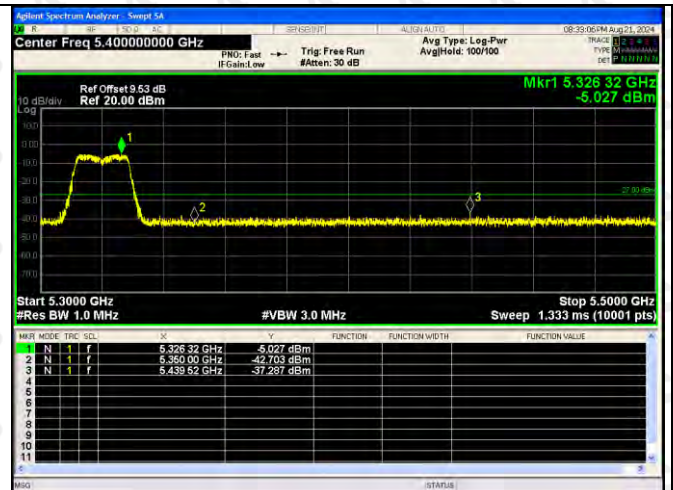


5250-5350MHz:
ANT1

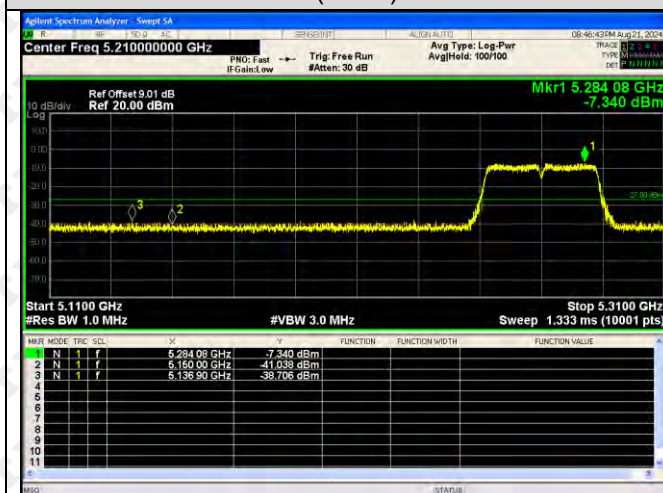




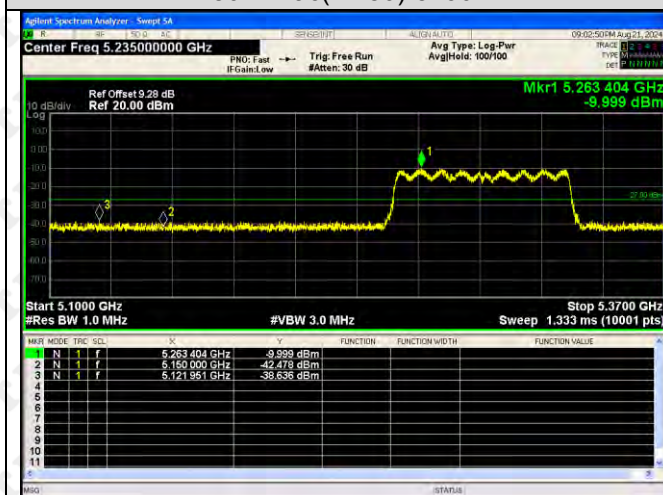
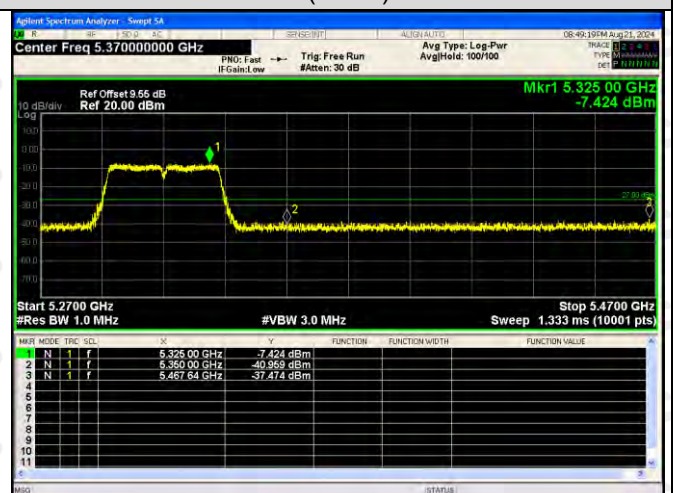
802.11n(HT40)-5270



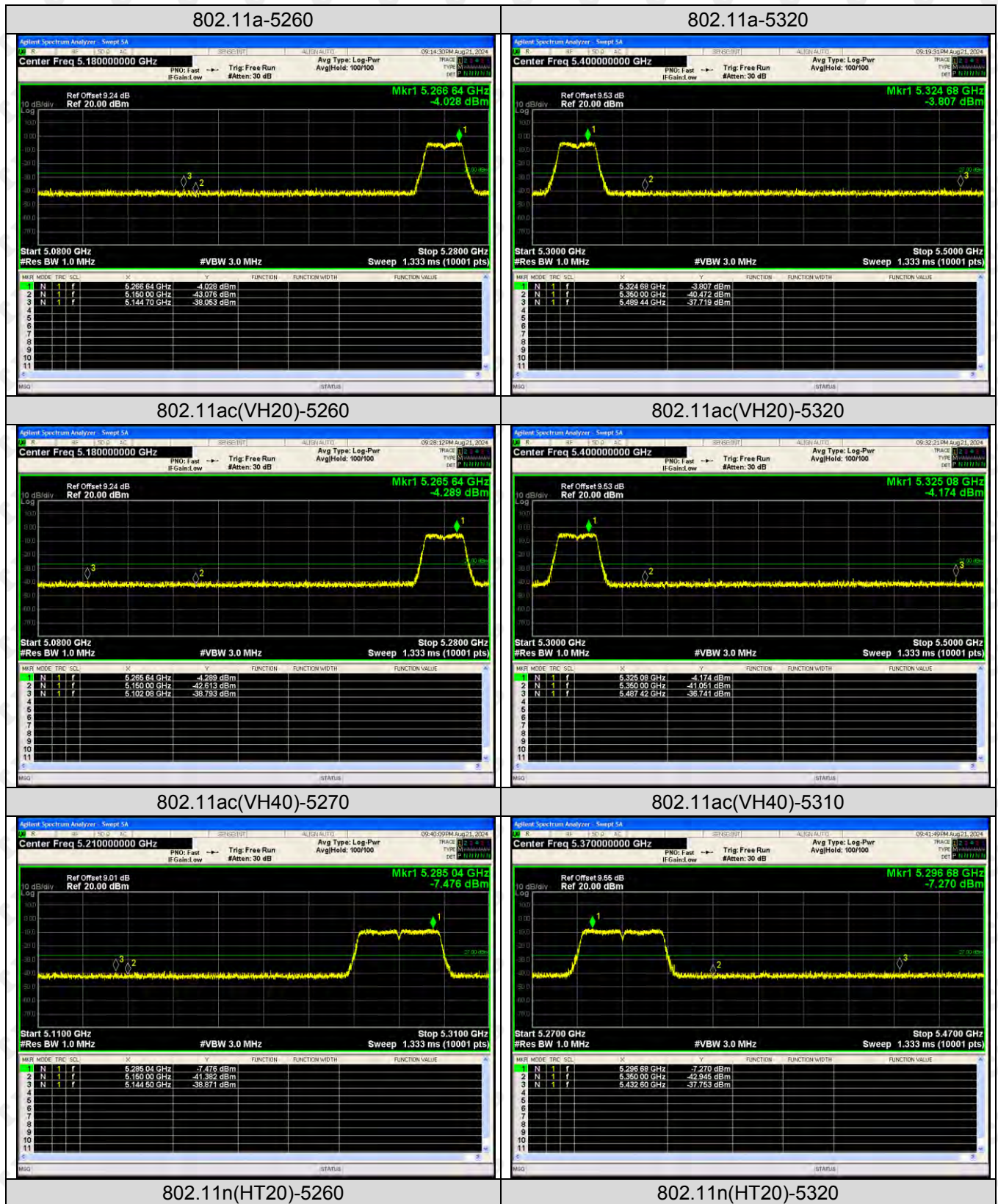
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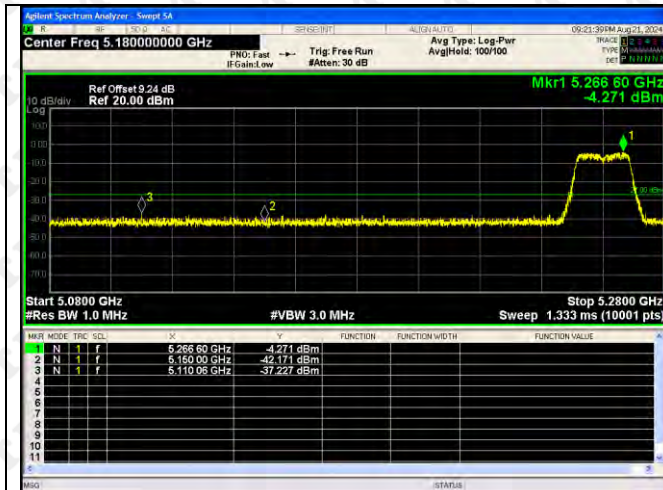


802.11ac(VH80)-5290

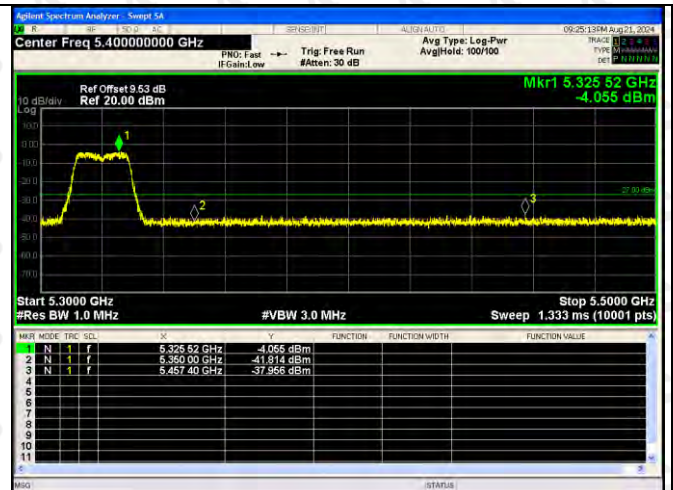


ANT2

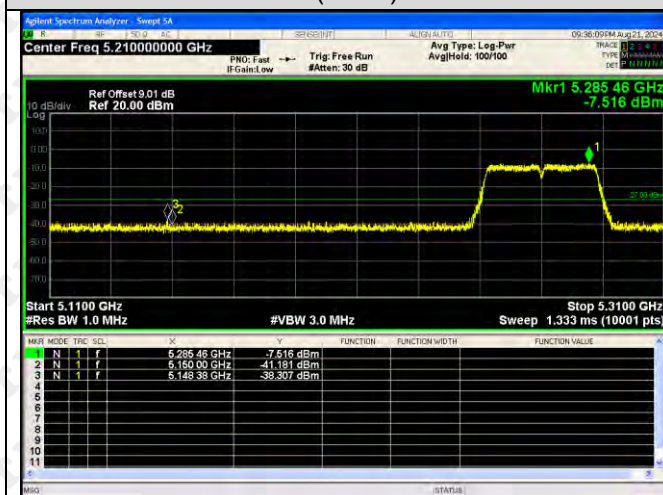




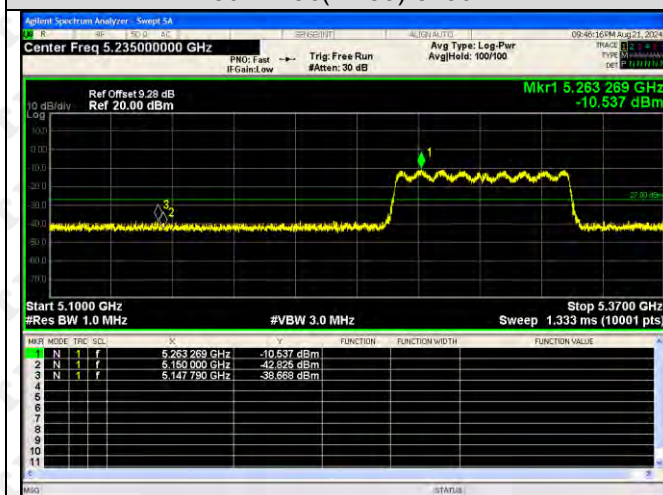
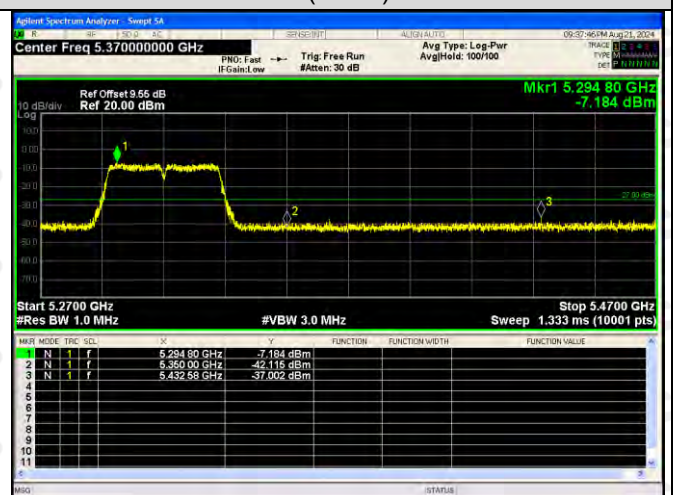
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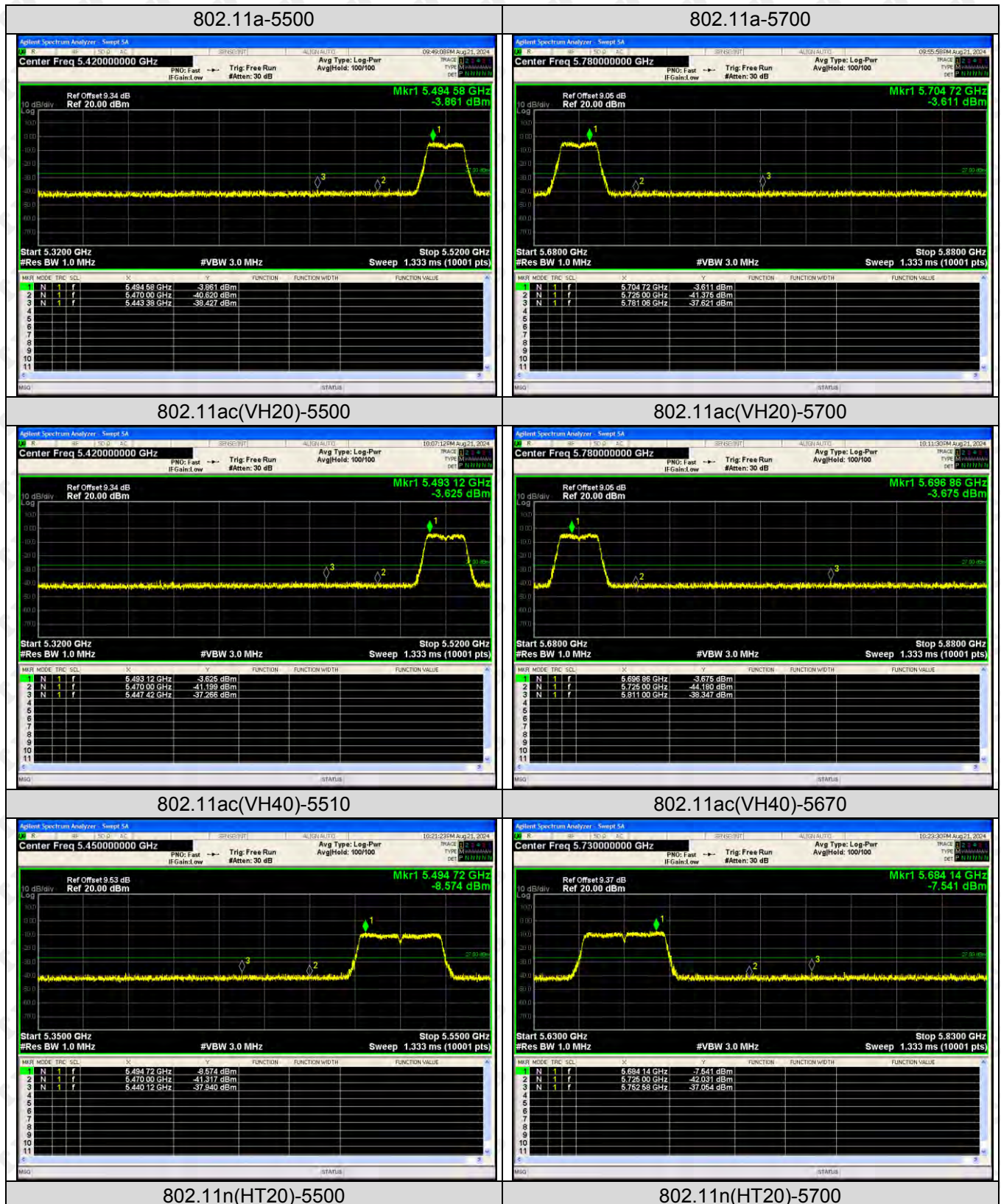
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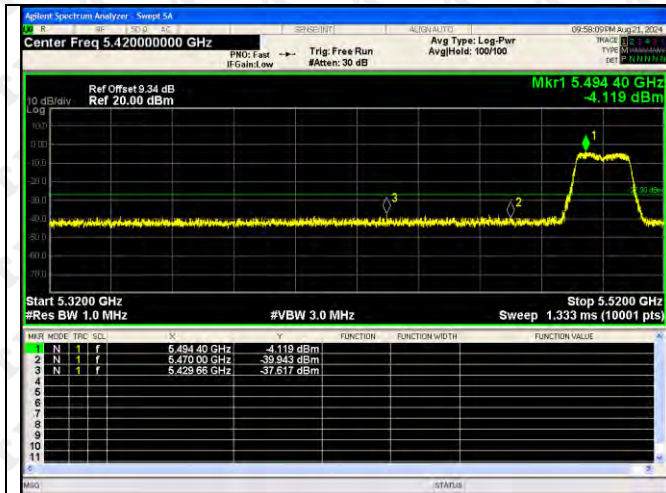


802.11ac(VH80)-5290

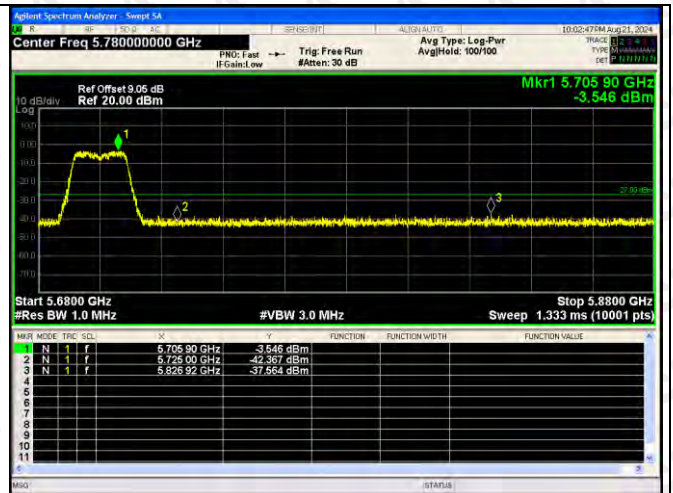


5470-5725MHz:
ANT1

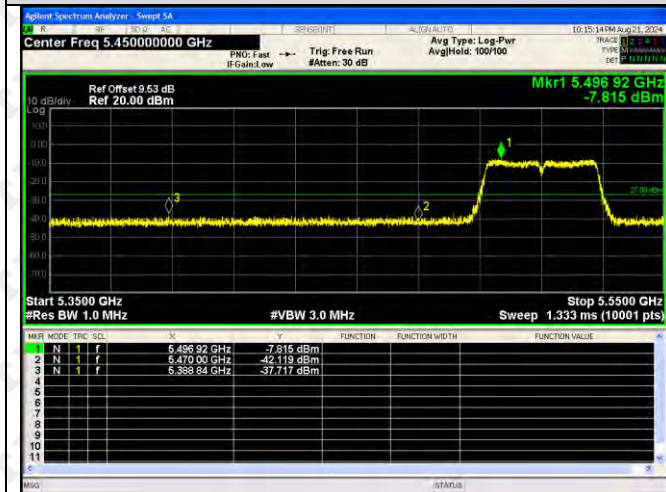




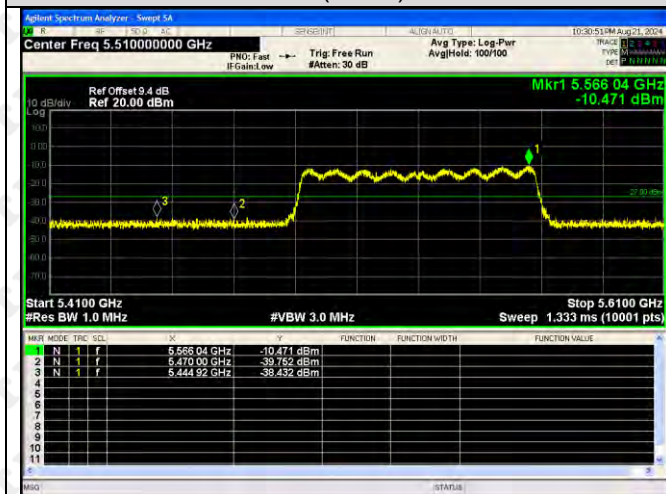
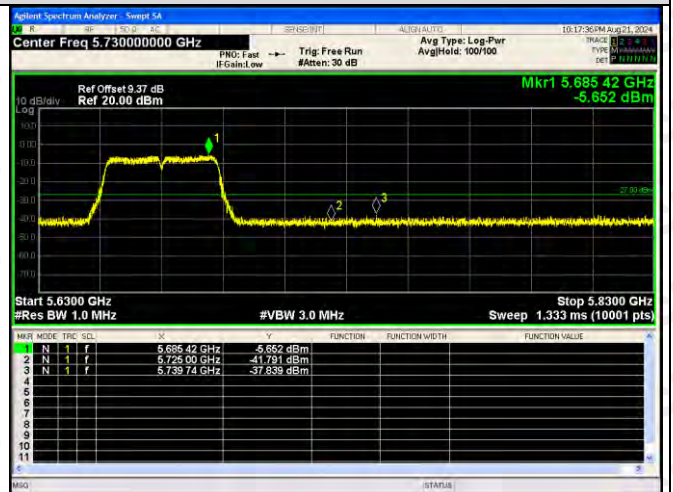
802.11n(HT40)-5510



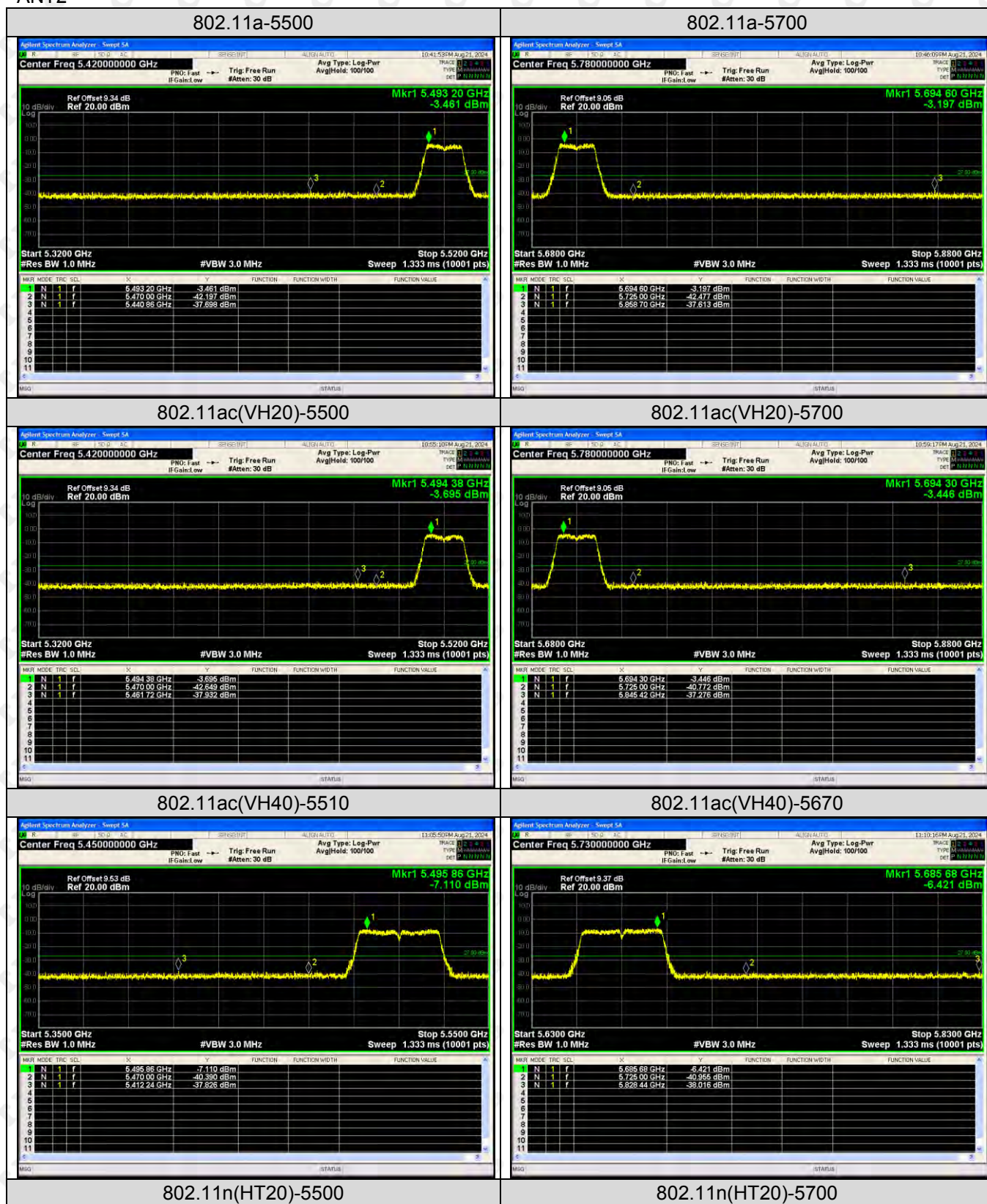
802.11n(HT40)-5670

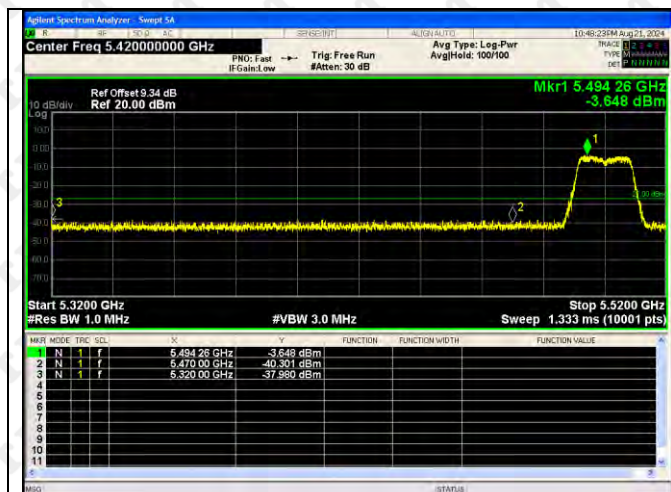


802.11ac(VH80)-5530

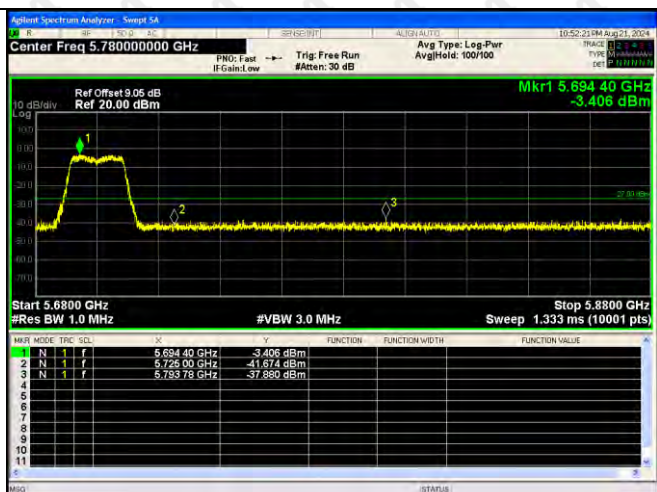


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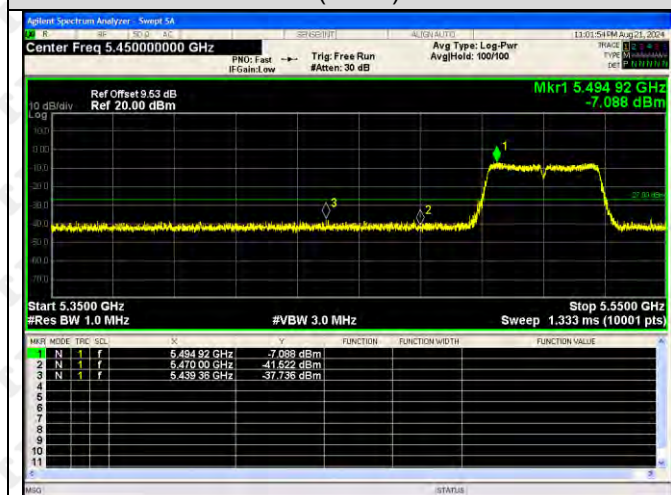




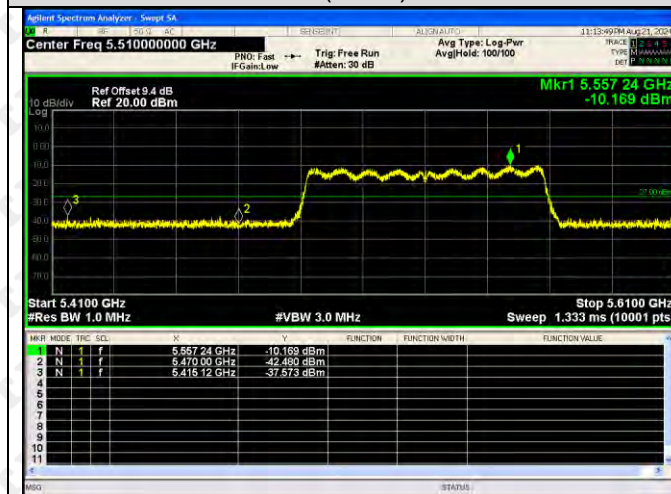
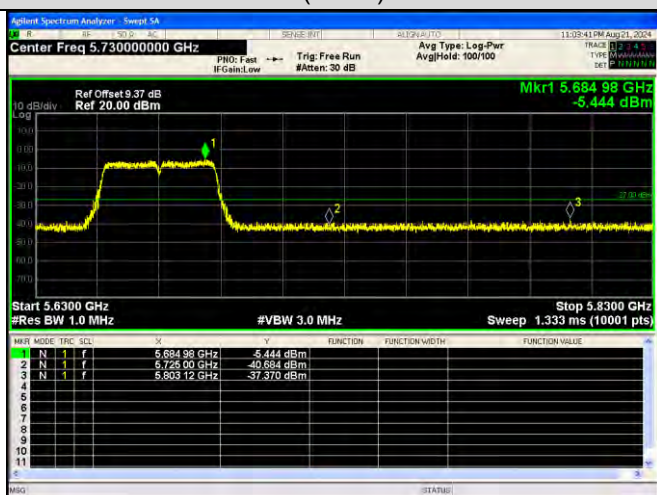
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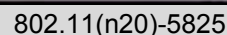
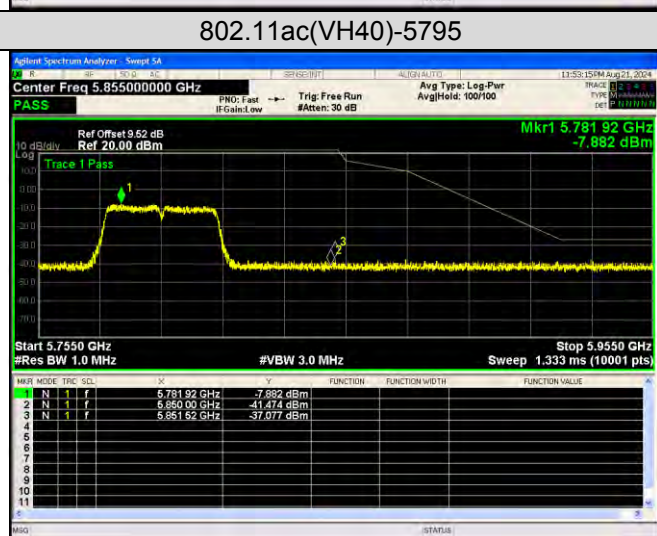
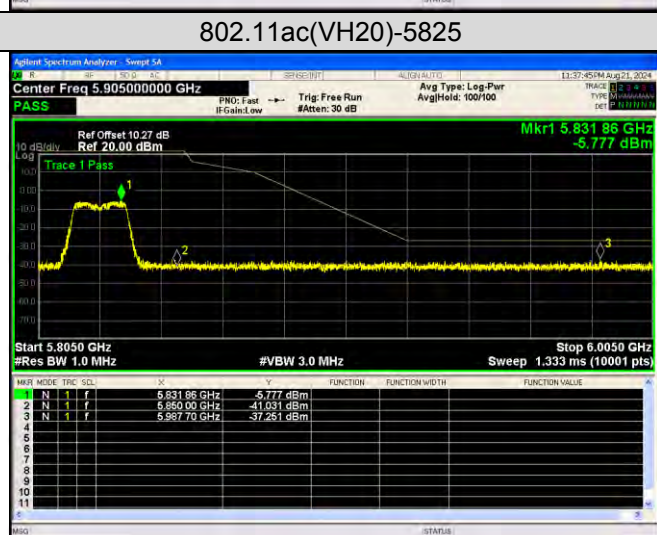
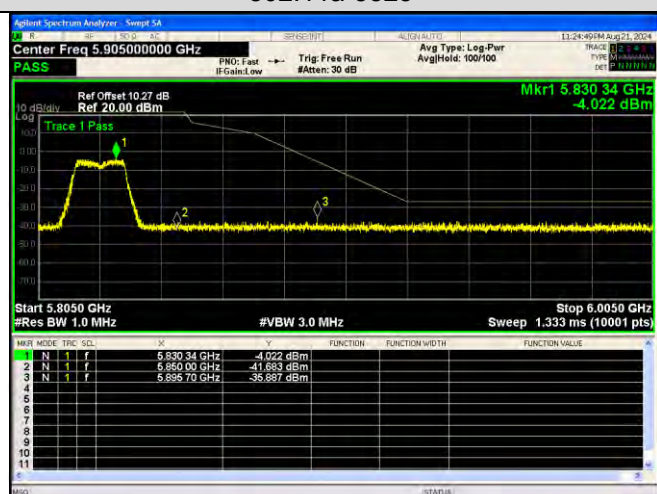
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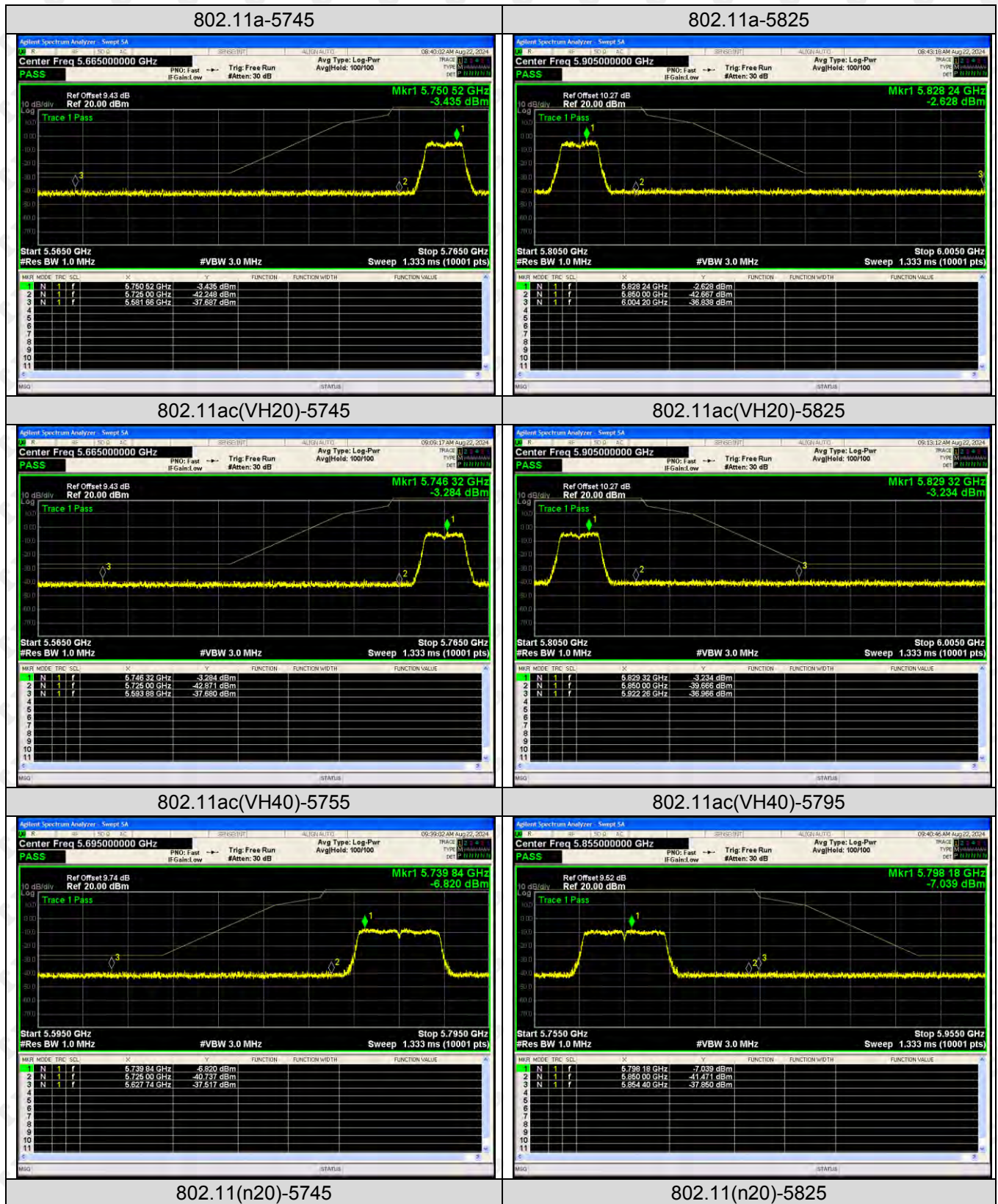
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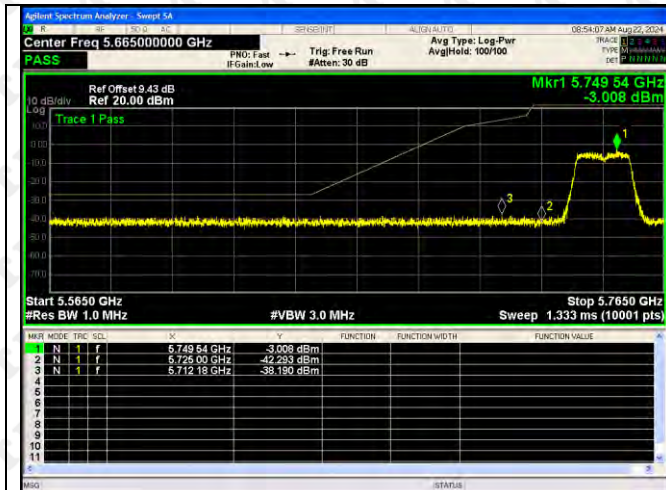


802.11a-5825



ANT2

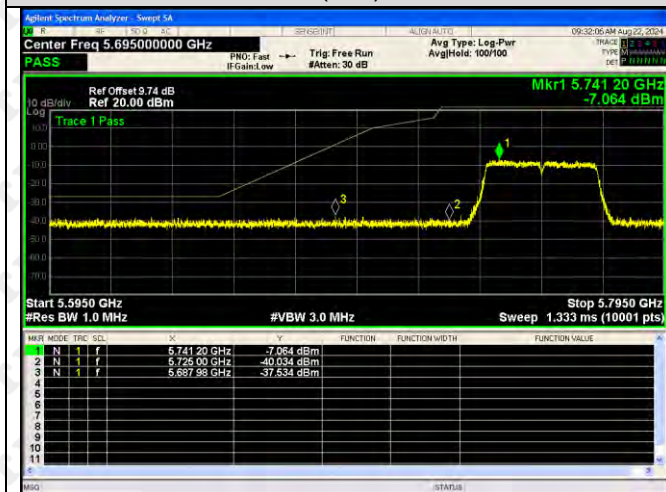




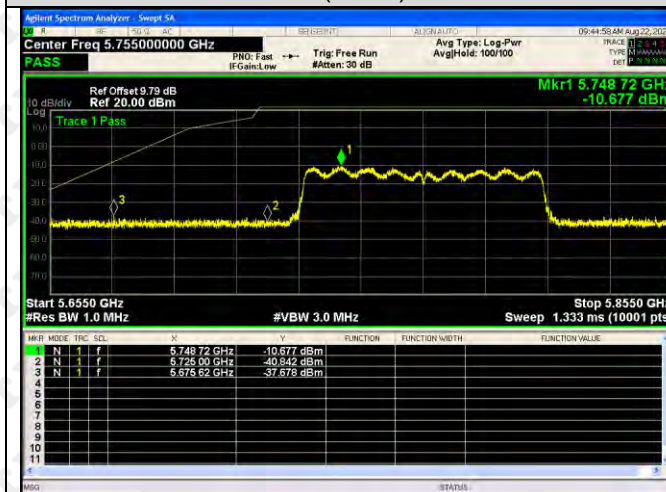
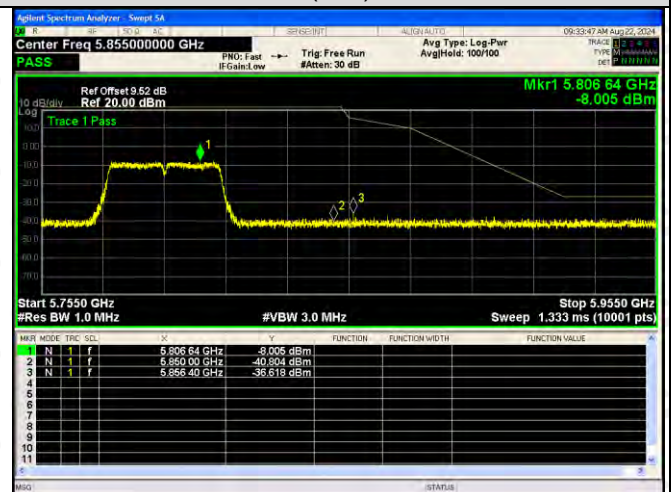
802.11(n40)-5755



802.11(n40)-5795

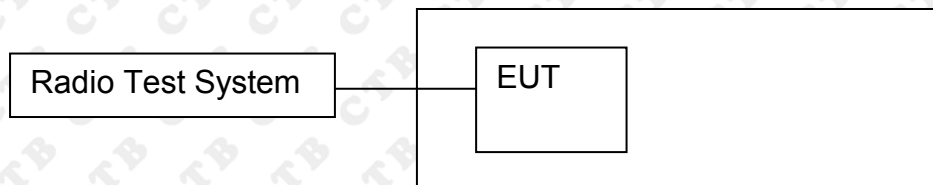


802.11ac(VH80)-5775



9. CONDUCTED PEAK OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p.

at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

(5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution

bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

(h) Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS).

(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

9.3 Test procedure

According to KDB789033 D02v02r01 sectionE, the following is the measurement procedure.

(i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW $\geq$ 3 MHz.

(iv) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."

(viii) Trace average at least 100 traces in power averaging (rms) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

9.4 Test Result

5150-5250MHz:

Test mode1	Test Channel (MHz)	Output Power dBm ANT1	Output Power dBm ANT2	Output Power dBm Total	Limit dBm
802.11a	5180	4.194	4.213	/	30
	5200	4.373	4.792	/	30
	5240	4.760	5.368	/	30
802.11ac20	5180	4.711	4.538	7.636	30
	5200	4.255	4.555	7.418	30
	5240	4.300	5.028	7.690	30
802.11ac40	5190	3.397	3.371	6.394	30
	5230	3.405	3.726	6.579	30
802.11ac80	5210	2.879	2.942	5.921	30
802.11n(HT20)	5180	4.403	4.529	7.477	30
	5200	5.173	4.507	7.863	30
	5240	4.272	5.000	7.662	30
802.11n(HT40)	5190	3.587	3.701	6.655	30
	5230	4.108	3.320	6.742	30

5250-5350MHz:

Test mode1	Test Channel (MHz)	Output Power dBm ANT1	Output Power dBm ANT2	Output Power dBm Total	Limit dBm
802.11a	5260	4.375	4.030	/	23.98
	5280	4.349	3.977	/	23.98
	5320	4.313	4.751	/	23.98
802.11ac20	5260	4.424	4.330	7.388	23.98
	5280	3.749	4.534	7.170	23.98
	5320	4.294	4.615	7.468	23.98
802.11ac40	5270	3.985	4.137	7.072	23.98
	5310	3.747	4.455	7.126	23.98
802.11ac80	5290	3.185	2.823	6.018	23.98
802.11n(HT20)	5260	4.476	4.446	7.471	23.98
	5280	3.666	4.547	7.139	23.98
	5320	4.700	4.837	7.779	23.98
802.11n(HT40)	5270	4.260	4.650	7.470	23.98
	5310	4.479	4.479	7.489	23.98

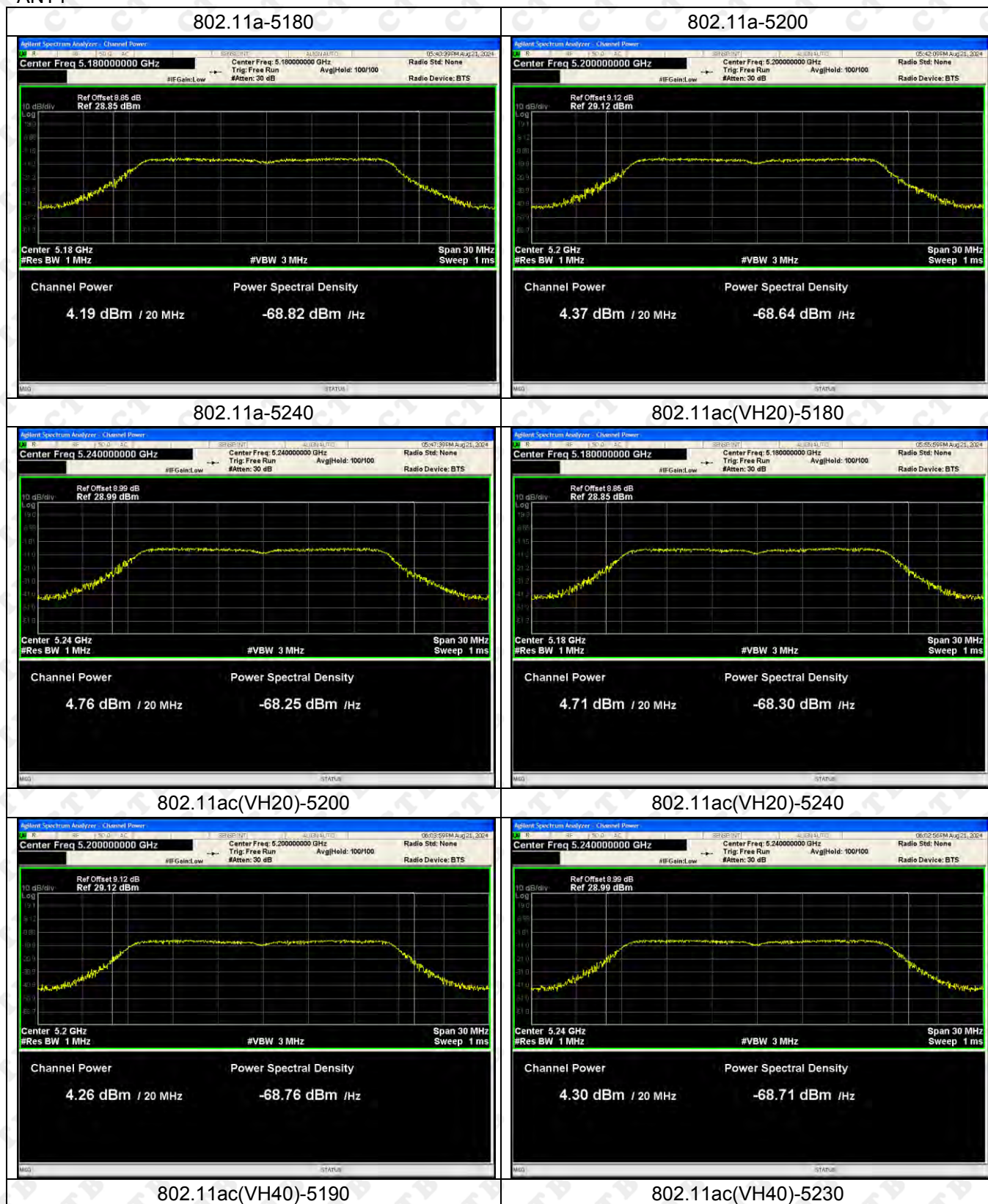
5470-5725MHz:

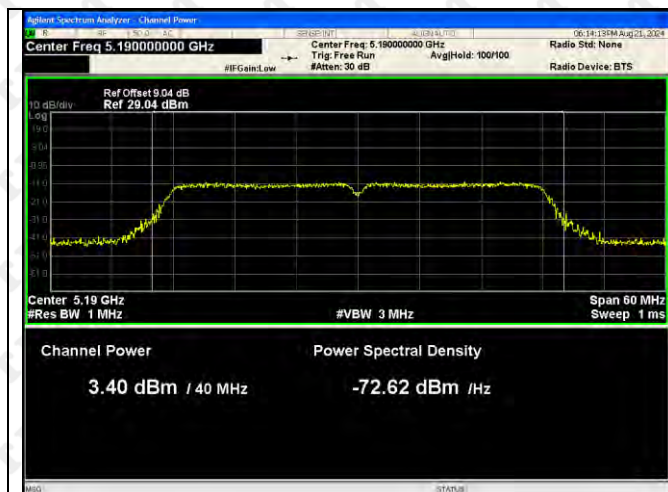
Test mode1	Test Channel (MHz)	Output Power dBm ANT1	Output Power dBm ANT2	Output Power dBm Total	Limit dBm
802.11a	5500	4.531	4.318	/	23.98
	5580	4.898	4.670	/	23.98
	5700	4.883	4.983	/	23.98
802.11ac20	5500	4.553	4.617	7.595	23.98
	5580	4.774	4.223	7.518	23.98
	5700	3.890	4.180	7.048	23.98
802.11ac40	5510	3.353	4.326	6.877	23.98
	5670	3.901	3.682	6.803	23.98
802.11ac80	5530	2.274	2.589	5.445	23.98
802.11n(HT20)	5500	4.431	4.734	7.595	23.98
	5580	5.190	4.760	7.991	23.98
	5700	4.230	4.010	7.132	23.98
802.11n(HT40)	5510	3.454	4.054	6.775	23.98
	5670	3.764	3.379	6.586	23.98

5725-5850MHz:

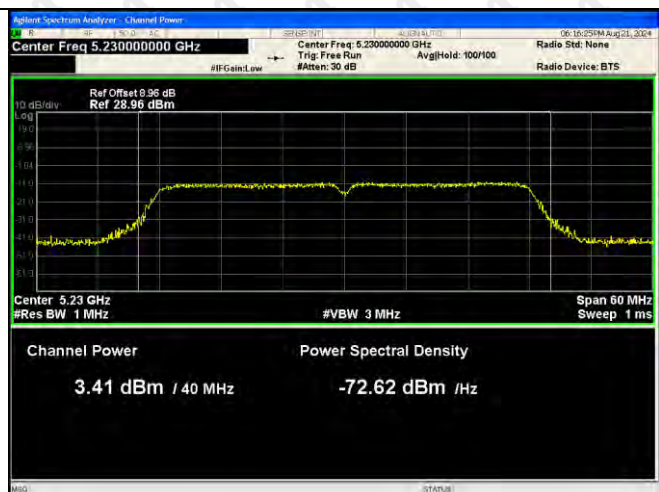
Test mode1	Test Channel (MHz)	Output Power dBm ANT1	Output Power dBm ANT2	Output Power dBm Total	Limit dBm
802.11a	5745	4.646	4.192	/	23.98
	5785	3.762	4.646	/	23.98
	5825	4.310	4.739	/	23.98
802.11ac20	5745	3.970	4.120	7.056	23.98
	5785	3.960	4.030	7.005	23.98
	5825	4.060	4.160	7.121	23.98
802.11ac40	5755	3.624	4.269	6.969	23.98
	5795	3.584	3.936	6.774	23.98
802.11ac80	5775	2.460	2.419	5.450	23.98
802.11n(HT20)	5745	4.270	4.120	7.206	23.98
	5785	4.150	4.000	7.086	23.98
	5825	4.180	4.020	7.111	23.98
802.11n(HT40)	5755	3.256	4.365	6.856	23.98
	5795	3.147	4.535	6.907	23.98

Test Graph:
5150-5250MHz-Power
ANT1

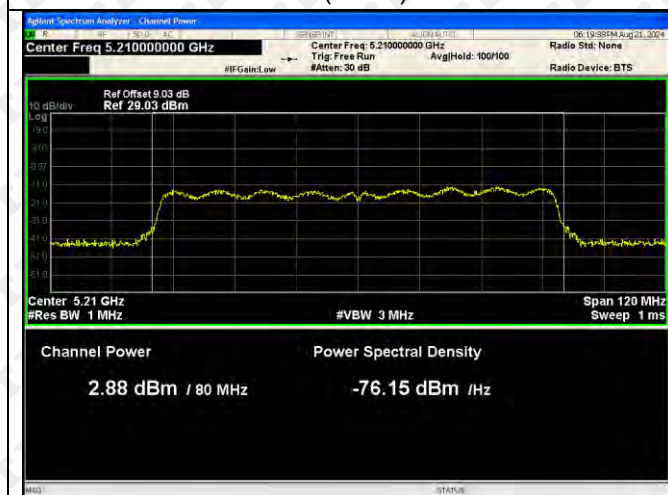




802.11ac(VH80)-5210



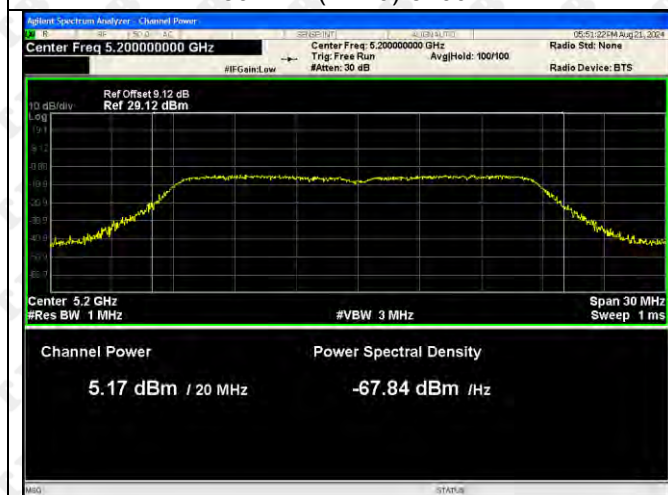
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802.11n(HT20)-5200



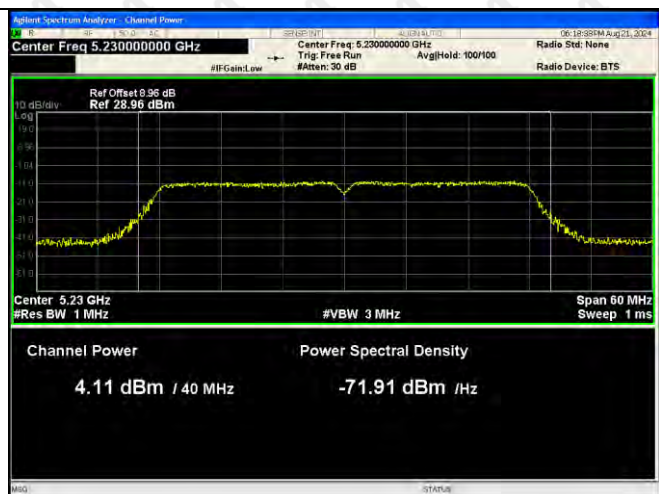
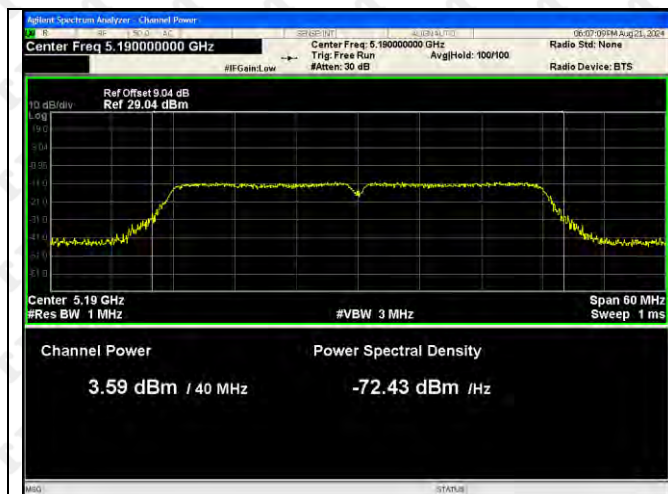
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802.11n(HT40)-5190

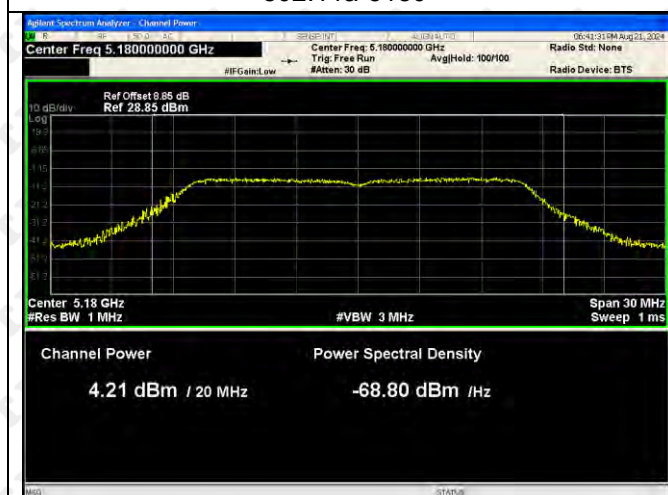


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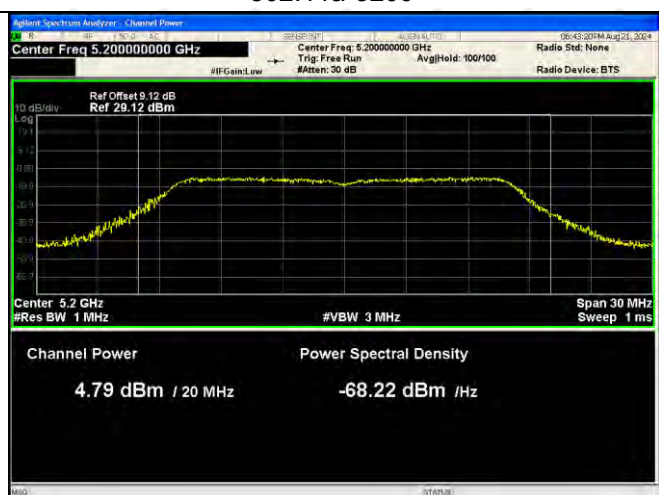


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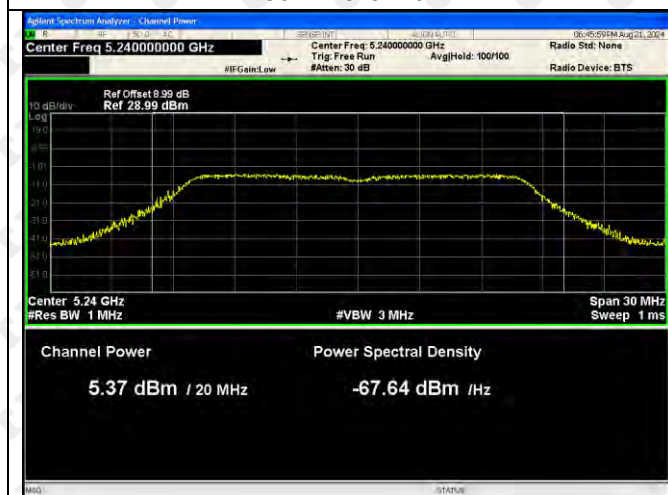
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802.11a-5200



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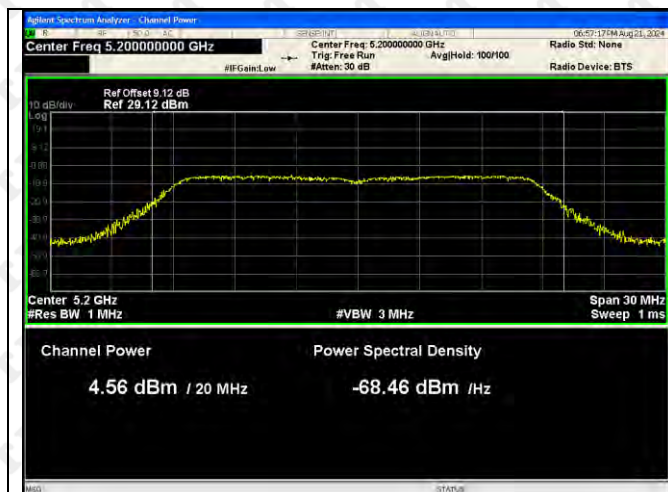


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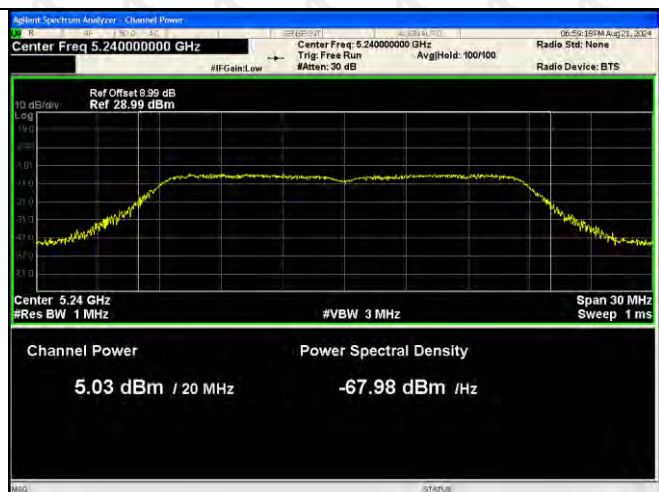


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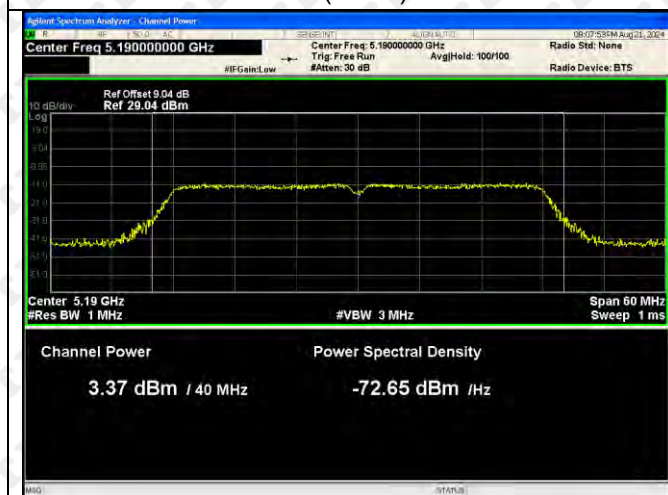
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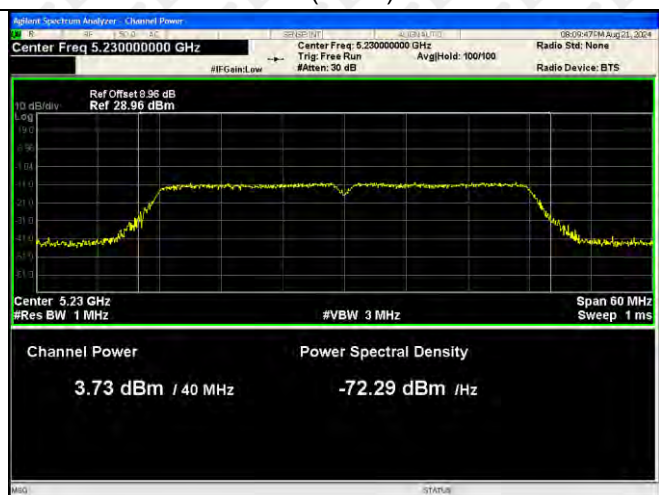
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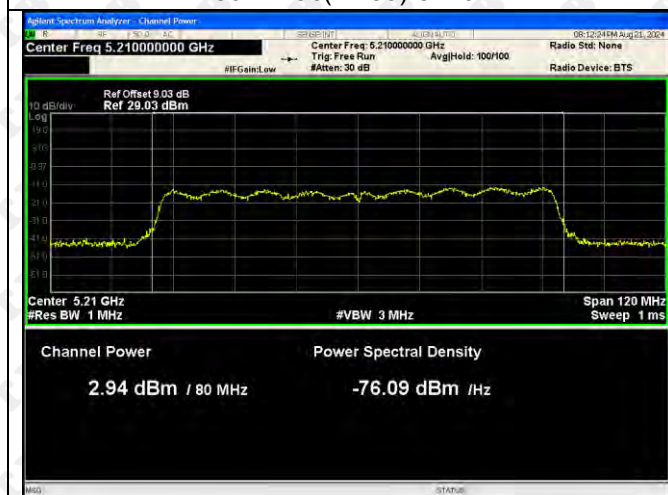
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802.11ac(VH80)-5210



802.11ac(VH80)-5230



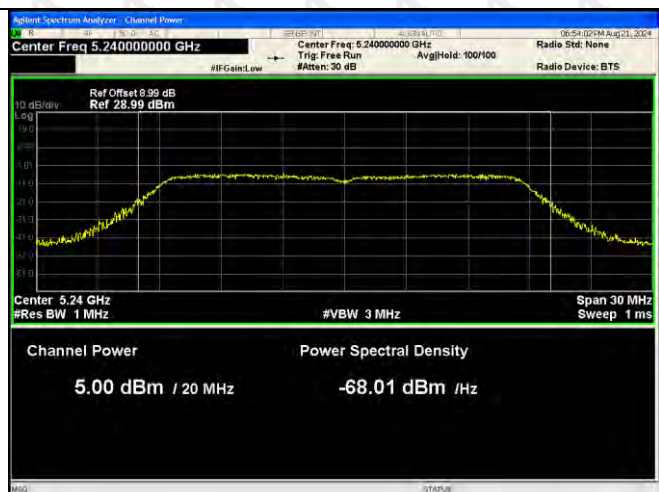
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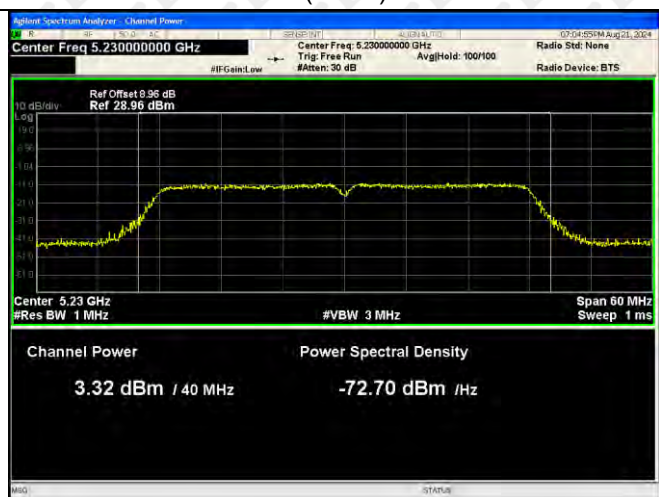
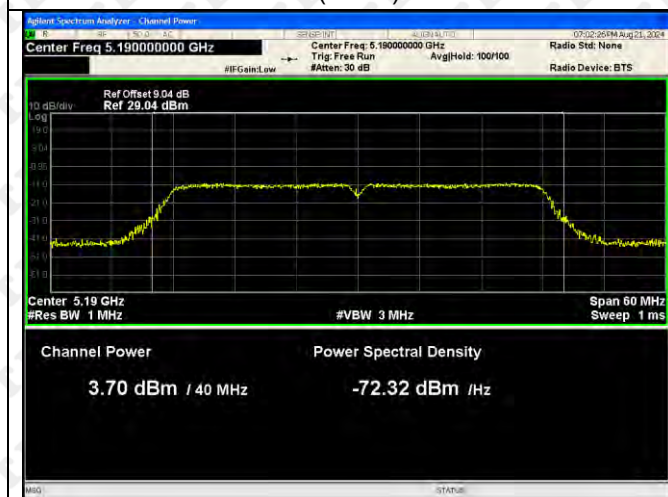
802.11n(HT20)-5240



802.11n(HT40)-5190



802.11n(HT40)-5230



5250-5350MHz-Power ANT1

