



TEST REPORT

Test item description: Tablet
FCC ID: O86-FLEX10D
Trademark(s): MobileDemand
Model/Type reference: FLEX10D
Applicant's name: MobileDemand, LC
Address: 1501 Boyson Square Drive Suite 101 Hiawatha IA 52233 United States Of America
Manufacturer: Shenzhen Bmorn Technology Co., Ltd.
Address: 20th floor, Wanting Building, Baoyuan Road, Bao'an District, Shenzhen, Guangdong, China
Prepared By: Shenzhen CTB Testing Technology Co., Ltd.
Address: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: Apr. 03, 2026
Sample tested Date: Apr. 03, 2026 to Jul. 11, 2026
Issue Date: Jul. 28, 2026
Report No.: CTB26040308605RF04V1
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.

Compiled by:

Reviewed by:

Approved by:

Kai Chen

Kai Chen

Martin Feng

Martin FengBin Mei / Director

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. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" 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
CTB26040308605RF04	Jul. 11, 2026	Original	Invalid
CTB26040308605RF04V1	Jul. 28, 2026	Modification	Valid
Remark: This report was commissioned by MobileDemand, LC Company. It is for the same specification product as the sample in the original report CTB26040308605RF04. Only the test description has been modified. The test data and conclusions in this report are based on the original report CTB26040308605RF04.			

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 C63.10-2020	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 C63.10-2020.

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	$U=\pm 54.3\text{Hz}$
Adjacent channel power	$U=\pm 1.3\text{dB}$
Conducted Adjacent channel power	$U=\pm 1.38\text{dB}$
Conducted output power above 1G	$U=\pm 1.0\text{dB}$
Conducted output power below 1G	$U=\pm 0.9\text{dB}$
Power Spectral Density, Conduction	$U=\pm 1.0\text{dB}$
Conduction spurious emissions	$U=\pm 2.8\text{dB}$
Out of band emission	$U=\pm 54\text{Hz}$
3m chamber Radiated spurious emission(9kHz-30MHz)	$U=\pm 4.8\text{dB}$
3m chamber Radiated spurious emission(30MHz-1GHz)	$U=\pm 4.3\text{dB}$
3m chamber Radiated spurious emission(1GHz-18GHz)	$U=\pm 4.5\text{dB}$
3m chamber Radiated spurious emission(18GHz-40GHz)	$U=\pm 3.4\text{dB}$
Humidity uncertainty	$U=\pm 5.3\%$
Temperature uncertainty	$U=\pm 0.59^{\circ}\text{C}$
Supply voltages	$U=\pm 3\%$
Time	$U=\pm 5\%$
Conducted emission(150kHz-30MHz)	3.2dB

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type reference:	FLEX10D
Model Difference:	N/A
Wi-Fi Specification:	IEEE 802.11a/n/ac/ax
Hardware Version:	S240ANR100
Software Version:	BIOS:T10NM2-BI-752-F-20260604 EC:S240ANR100-EC-V0106
Operation Frequency:	IEEE 802.11a/n/ac/ax(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac/ax(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac/ax(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac/ax(80M): 5725MHz ~5850MHz/ 1 channel
Max. RF output power:	WiFi (5G): 16.632dBm
Type of Modulation:	WiFi (5G): OFDM, OFDMA
Antenna installation:	WiFi (5G): FPC antenna
Antenna Gain:	WiFi (5.2G): Ant1: 1.79dBi Ant2: 1.39dBi WiFi (5.8G): Ant1: 2.86dBi Ant2: 0.25dBi
Ratings:	Input: AC 100-240V~50/60Hz Output: 12V=2.5A DC 7.6V by battery

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

Notes:

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/ax(20M) Operation in the 5180MHz ~5240 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz
For 802.11a/n/ac/ax(20M) Operation in the 5745MHz ~5825 MHz band			
Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz	NA	NA

For 802.11n/ac/ax(40M) Operation in the 5190MHz ~5230 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11n/ac/ax(40M) Operation in the 5755MHz ~5795 MHz band			
Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

For 802.11ac/ax(80M) Operation in the 5210 MHz band			
Channel	Frequency	Channel	Frequency
42	5210MHz	NA	NA
For 802.11ac/ax(80M) Operation in the 5775 MHz band			
Channel	Frequency	Channel	Frequency
155	5775MHz	NA	NA

NOTE: Duty cycle>98%.

Test mode	Rate
802.11a	54M
802.11n	500M
802.11ac/ax	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/ax(20M)	5180MHz ~5240 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
Channel 38		N/A	Channel 46	
5190MHz		N/A	5230MHz	
802.11ac/ax(80M)		N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac/ax(20M)	5745MHz ~5825MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
Channel 151		N/A	Channel 159	
5755MHz		N/A	5795MHz	
802.11ac/ax(80M)		N/A	Channel 155	N/A

		N/A	5775MHz	N/A
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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, Xinhe 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.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2026/5/14	2027/5/13
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2026/5/14	2027/5/13
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2026/5/14	2027/5/13
4	Communication test set	R&S	CMW500	108058	V3.5.80	2026/5/14	2027/5/13
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/5/14	2027/5/13
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2026/5/14	2027/5/13
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2026/5/14	2027/5/13
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2026/5/14	2027/5/13
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2026/5/16	2027/5/15
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	/	2026/5/16	2027/5/15
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2026/5/16	2027/5/15
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	/	2025/10/20	2026/10/19
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2026/7/8	2027/7/7
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7	2026/5/15	2027/5/14

					(104489/003)		
18	Amplifier	HP	8447E	2945A02747	/	2026/5/15	2027/5/14
19	Amplifier	Agilent	8449B	3008A01838	/	2026/5/14	2027/5/13
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/5/17	2027/5/16
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2026/5/15	2027/5/14
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/5/17	2027/5/16
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2026/6/1	2027/5/31
26	Amplifier	AEROFLEX	Aeroflex	097	/	2026/6/1	2027/5/31
27	Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	2026/6/1	2027/5/31

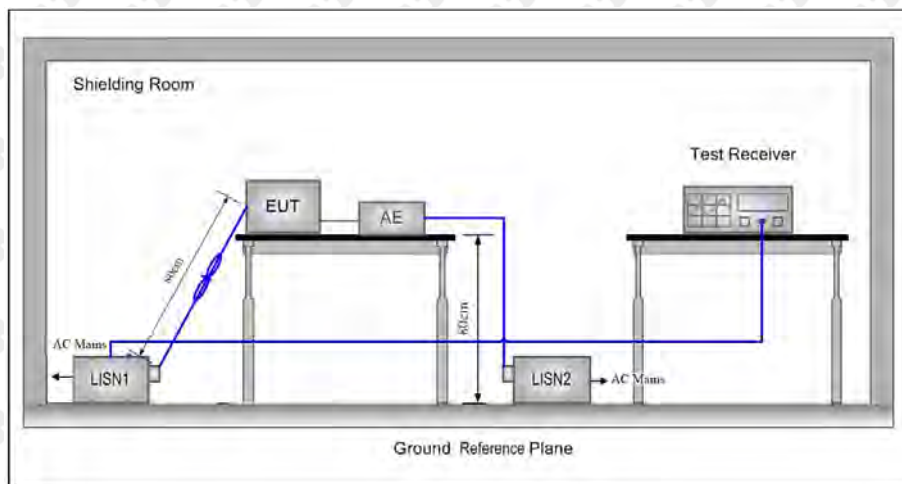
Continuous disturbance							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated Date	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	/	2024/6/22	2027/6/21
2	LISN	ROHDE&SCHWARZ	ESH3-Z5	831551852	/	2026/5/14	2027/5/13
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428	V4.42.SP3	2026/5/15	2027/5/14
4	Coaxial cable	ZDECL	Z302S	18091904	/	2026/5/14	2027/5/13
5	ISN	Schwarzbeck	NTFM8158	183	/	2026/5/18	2027/5/17
6	Voltage sensor	Schwarzbeck	TK 9420	01189	/	2026/5/16	2027/5/15
7	EZ-EMC	Frad	EMC-con3A1.1	/	/	/	/
8	Current Probe	FCC	F-52B	199453	/	2026/5/22	2027/5/21
9	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2026/5/14	2027/5/13
10	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2026/5/14	2027/5/13

Radiated emission(No.1 Chamber)							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated until	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2024/6/23	2027/6/22
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2026/5/15	2027/5/14
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/5/17	2027/5/16

4	Amplifier	Agilent	8449B	3008A01838	/	2026/5/14	2027/5/13
5	Amplifier	HP	8447E	2945A02747	/	2026/5/15	2027/5/14
6	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/5/17	2027/5/16
7	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI	100362	RF_ATTEN_7 (104489/003)	2026/5/15	2027/5/14
8	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/5/14	2027/5/13
9	Coaxial cable	ETS	RFC-SNS-100-NMS-80	/	/	2026/5/14	2027/5/13
10	Coaxial cable	ETS	RFC-SN-100-NMS-20	/	/	2026/5/14	2027/5/13
11	Coaxial cable	ETS	RFC-SNS-100-SMS-20	/	/	2026/5/14	2027/5/13
12	Coaxial cable	ETS	RFC-NNS-100-NMS-300	/	/	2026/5/14	2027/5/13
13	EMI test software	Frad	EZ-EMC	Ver/ FA-03A2 RE	/	/	/
14	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2026/5/14	2027/5/13
15	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2026/5/14	2027/5/13

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 (dBμV)	
	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 $50\Omega/50\mu\text{H} + 5\Omega$ 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.

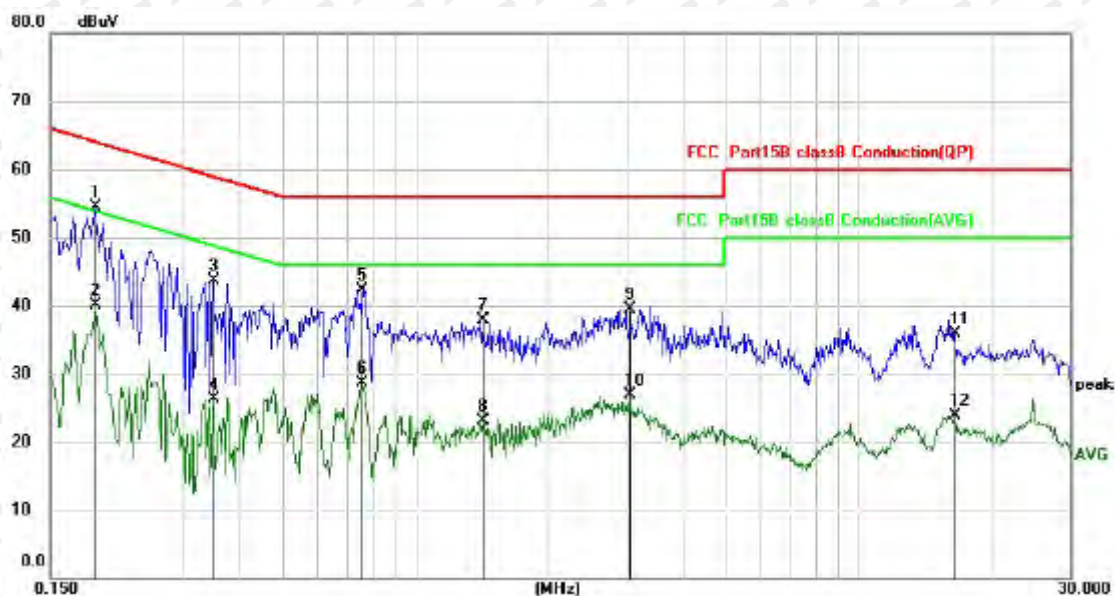
This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

- 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:

Test Specification: Line
Modulation : 802.11ax40 (the worst data)/ANT1+ANT2
Test Channel : 5230MHz

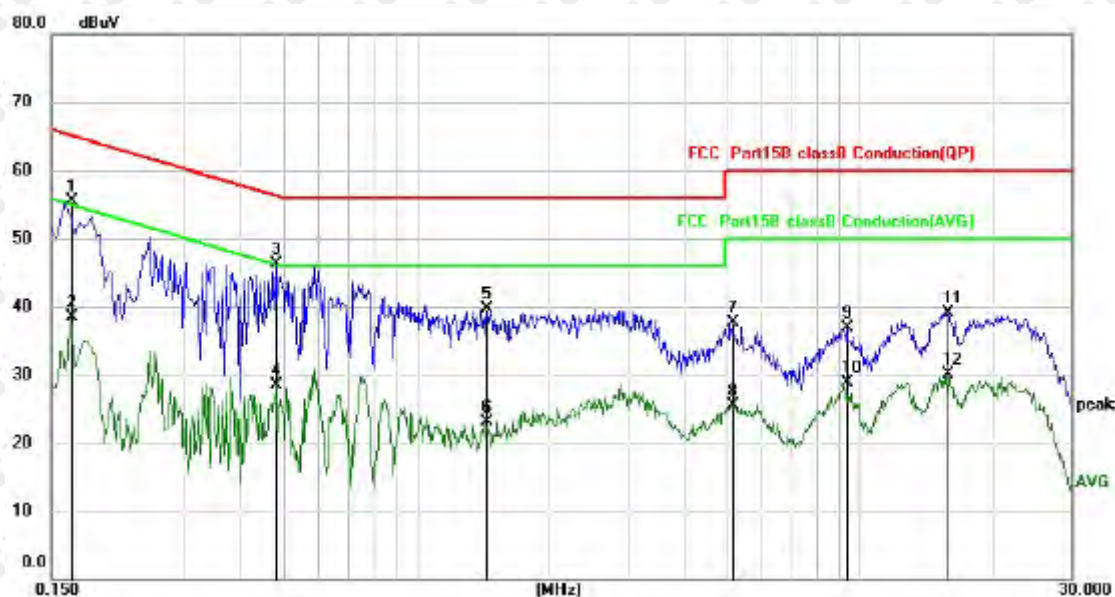


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1900	44.47	10.08	54.55	64.04	-9.49	QP
2		0.1900	30.09	10.08	40.17	54.04	-13.87	AVG
3		0.3500	33.65	10.08	43.73	58.96	-15.23	QP
4		0.3500	16.20	10.08	26.28	48.96	-22.68	AVG
5		0.7580	32.26	10.11	42.37	56.00	-13.63	QP
6		0.7580	18.61	10.11	28.72	46.00	-17.28	AVG
7		1.4217	27.78	10.15	37.93	56.00	-18.07	QP
8		1.4217	12.96	10.15	23.11	46.00	-22.89	AVG
9		3.0539	29.32	10.21	39.53	56.00	-16.47	QP
10		3.0539	16.60	10.21	26.81	46.00	-19.19	AVG
11		16.4255	25.19	10.80	35.99	60.00	-24.01	QP
12		16.4255	13.10	10.80	23.90	50.00	-26.10	AVG

Remark:

Factor = Cable loss + LISN factor, Margin = Measurement – Limit

N:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1660	45.37	10.07	55.44	65.16	-9.72	QP
2		0.1660	28.39	10.07	38.46	55.16	-16.70	AVG
3		0.4818	36.30	10.09	46.39	56.31	-9.92	QP
4		0.4818	18.44	10.09	28.53	46.31	-17.78	AVG
5		1.4377	29.63	10.15	39.78	56.00	-16.22	QP
6		1.4377	13.02	10.15	23.17	46.00	-22.83	AVG
7		5.1900	27.38	10.29	37.67	60.00	-22.33	QP
8		5.1900	15.22	10.29	25.51	50.00	-24.49	AVG
9		9.3536	26.44	10.43	36.87	60.00	-23.13	QP
10		9.3536	18.46	10.43	28.89	50.00	-21.11	AVG
11		15.7779	28.25	10.77	39.02	60.00	-20.98	QP
12		15.7779	19.25	10.77	30.02	50.00	-19.98	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

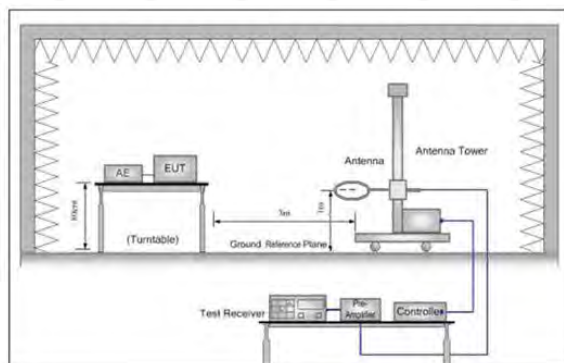


Figure 1. Below 30MHz

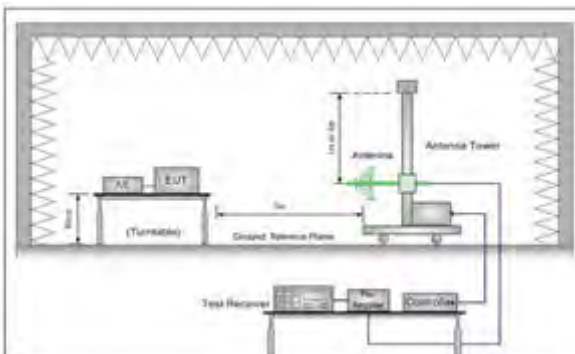


Figure 2. 30MHz to 1GHz

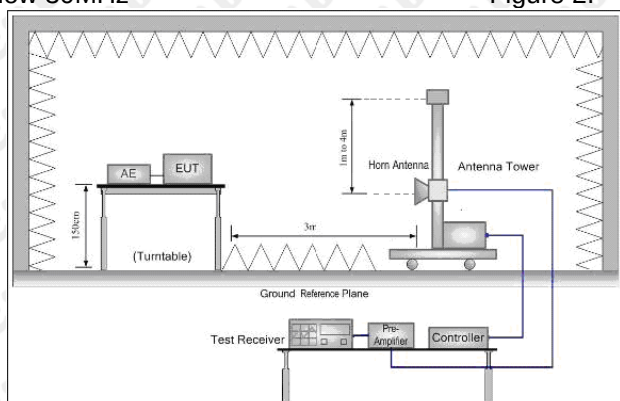


Figure 3. Above 1GHz

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-1GHz Test Results:

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5230MHz

Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		47.7421	31.48	-6.32	25.16	40.00	-14.84	QP
2		149.2238	37.48	-4.48	33.00	43.50	-10.50	QP
3	!	223.3413	47.02	-5.66	41.36	46.00	-4.64	QP
4	*	311.6324	44.95	-2.33	42.62	46.00	-3.38	QP
5		483.0616	37.30	0.63	37.93	46.00	-8.07	QP
6		710.4266	29.18	6.61	35.79	46.00	-10.21	QP

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

Antenna polarity: V



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	49.4459	40.03	-6.42	33.61	40.00	-6.39	QP
2		149.2238	36.51	-4.48	32.03	43.50	-11.47	QP
3		223.3413	39.86	-5.66	34.20	46.00	-11.80	QP
4		311.6324	41.58	-2.33	39.25	46.00	-6.75	QP
5		483.0616	38.00	0.63	38.63	46.00	-7.37	QP
6		876.7827	28.33	9.29	37.62	46.00	-8.38	QP

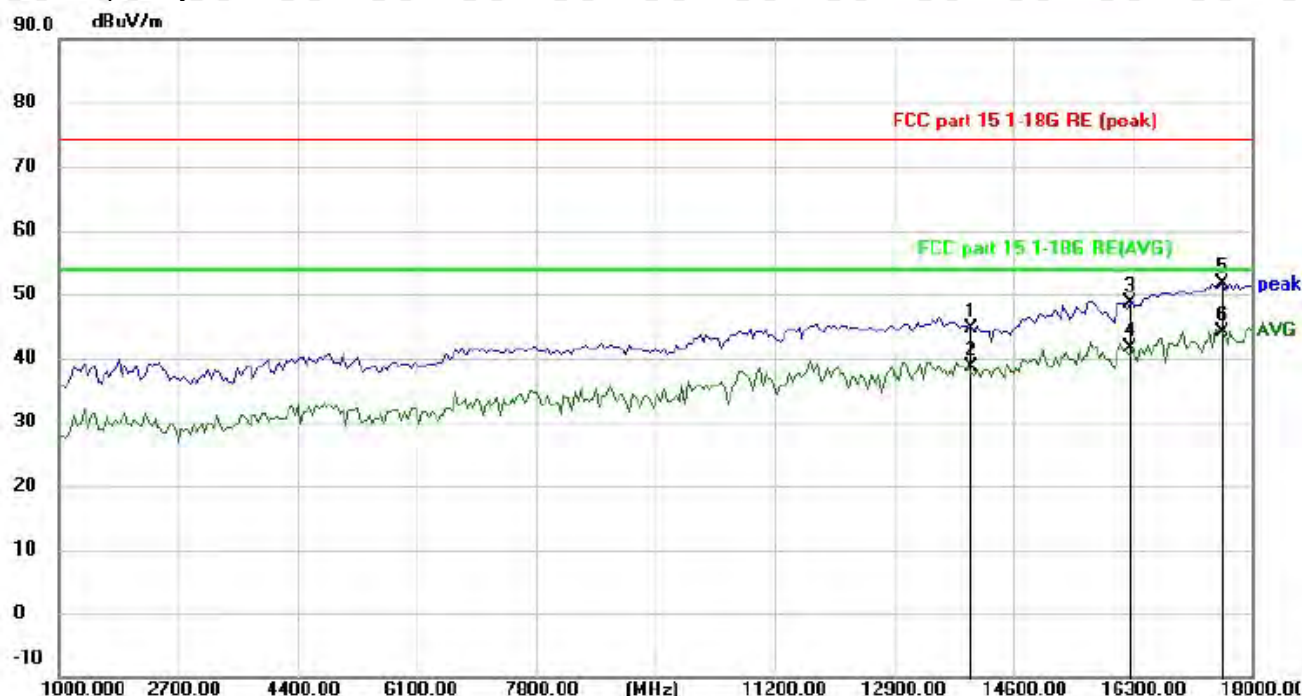
Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Radiated Spurious Emission (Above 1GHz):

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5190MHz

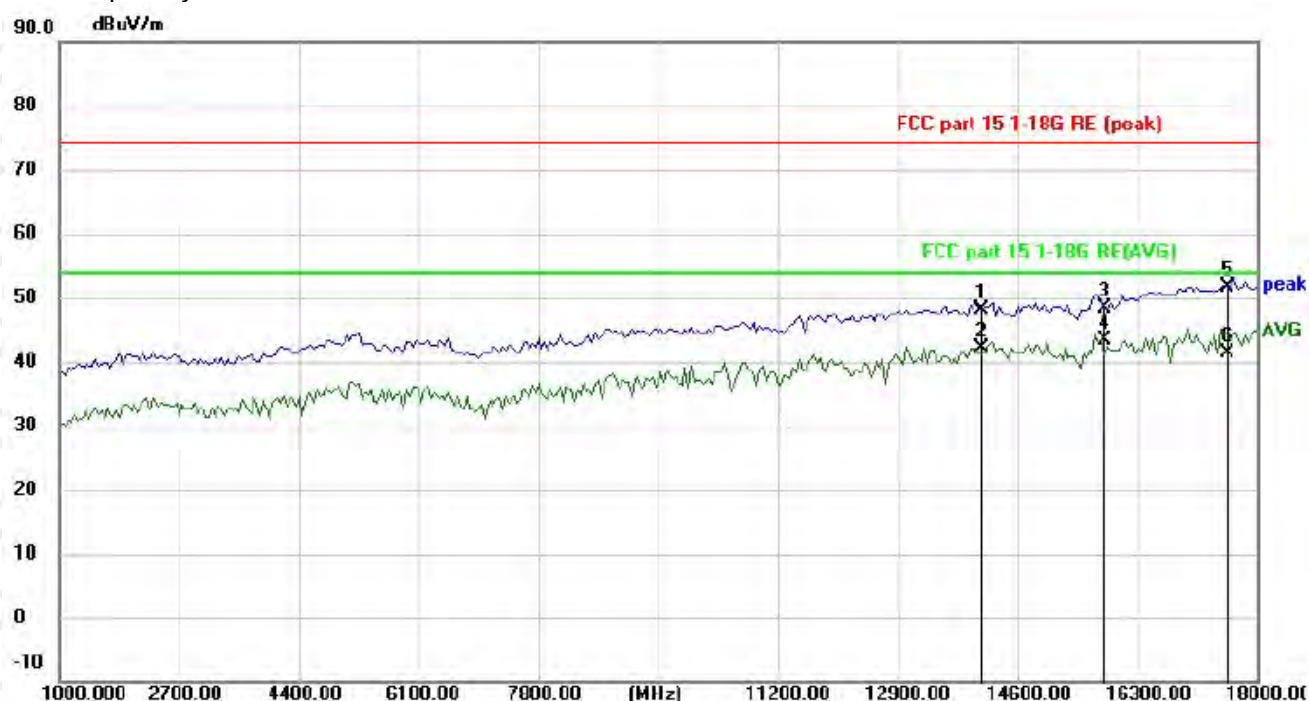
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		14005.000	34.00	10.65	44.65	74.00	-29.35	peak
2		14005.000	27.96	10.65	38.61	54.00	-15.39	AVG
3		16257.500	37.90	10.72	48.62	74.00	-25.38	peak
4		16257.500	30.80	10.72	41.52	54.00	-12.48	AVG
5		17575.000	33.66	18.00	51.66	74.00	-22.34	peak
6	*	17575.000	26.02	18.00	44.02	54.00	-9.98	AVG

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

Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		14090.000	37.57	10.63	48.20	74.00	-25.80	peak
2		14090.000	31.56	10.63	42.19	54.00	-11.81	AVG
3		15832.500	38.50	9.78	48.28	74.00	-25.72	peak
4	*	15832.500	33.52	9.78	43.30	54.00	-10.70	AVG
5		17575.000	33.66	18.00	51.66	74.00	-22.34	peak
6		17575.000	23.39	18.00	41.39	54.00	-12.61	AVG

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

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5190MHz

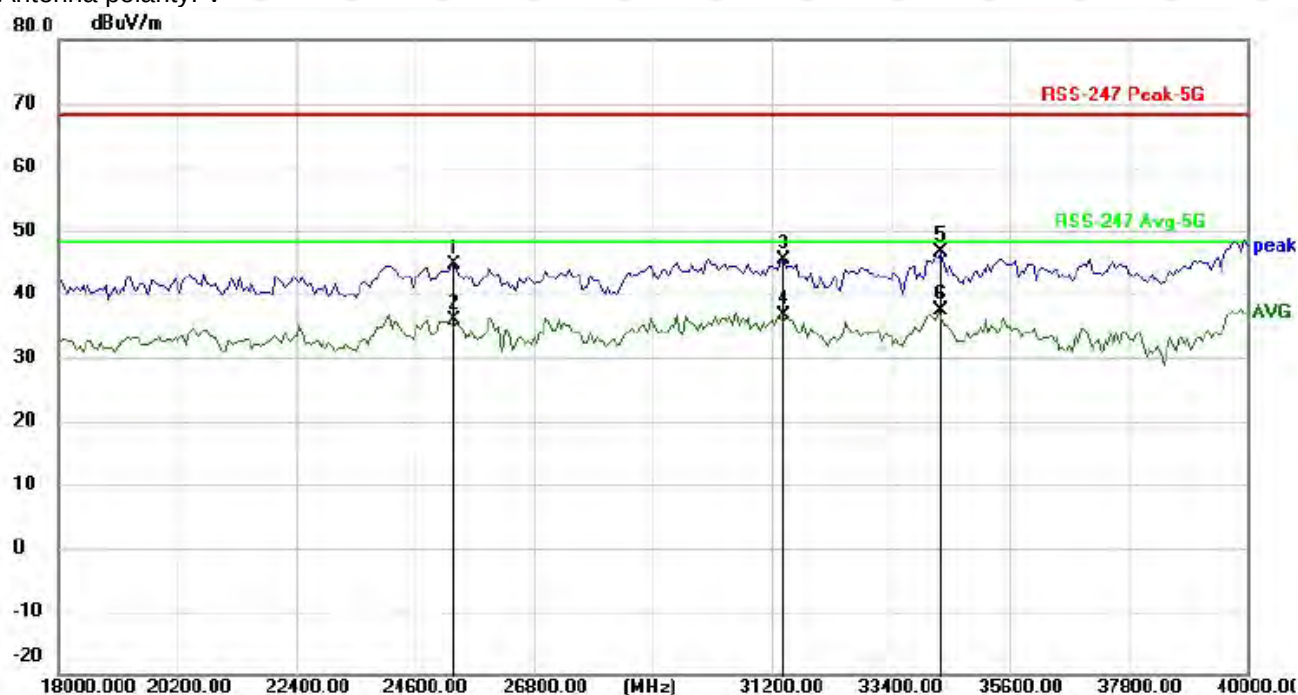
Antenna polarity: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		31585.000	48.89	-4.44	44.45	68.20	-23.75	peak
2		31585.000	40.65	-4.44	36.21	48.20	-11.99	AVG
3		36315.000	52.67	-3.10	49.57	68.20	-18.63	peak
4		36315.000	39.00	-3.10	35.90	48.20	-12.30	AVG
5		39890.000	49.22	1.14	50.36	68.20	-17.84	peak
6	*	39945.000	36.79	1.19	37.98	48.20	-10.22	AVG

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

Antenna polarity: V



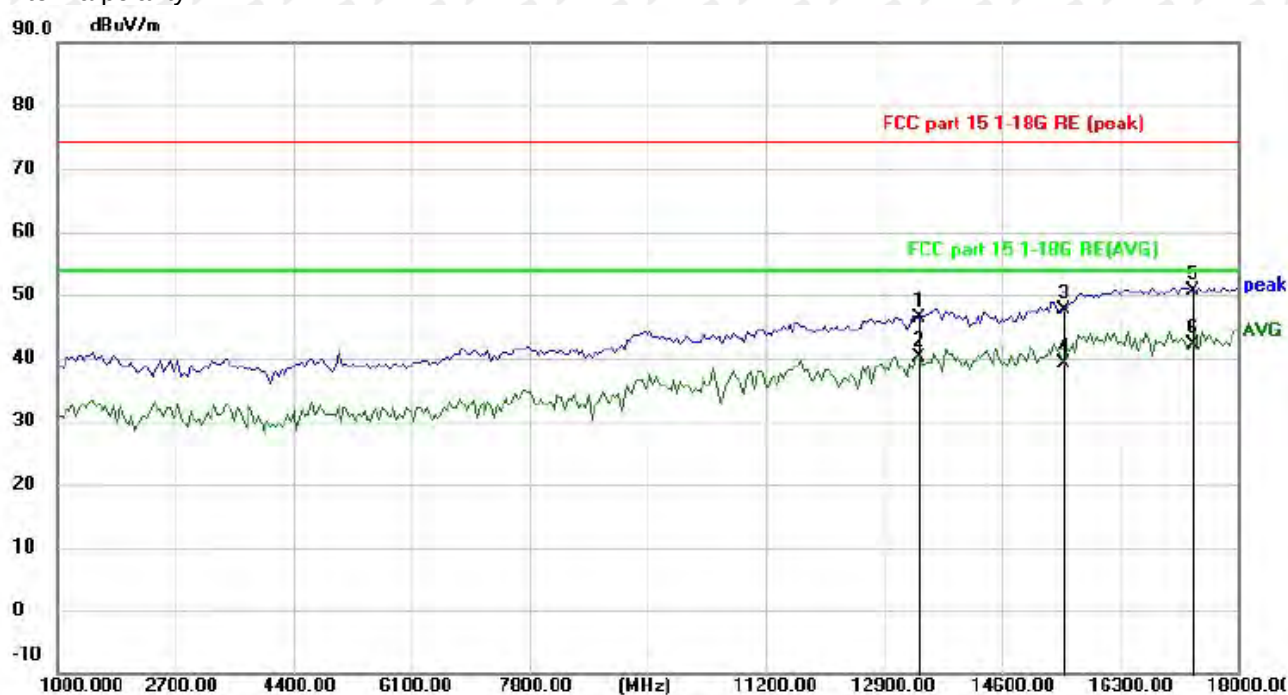
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		25315.000	51.49	-6.76	44.73	68.20	-23.47	peak
2		25315.000	42.61	-6.76	35.85	48.20	-12.35	AVG
3		31420.000	50.01	-4.51	45.50	68.20	-22.70	peak
4		31420.000	41.12	-4.51	36.61	48.20	-11.59	AVG
5		34335.000	49.12	-2.47	46.65	68.20	-21.55	peak
6	*	34335.000	39.77	-2.47	37.30	48.20	-10.90	AVG

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

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5230MHz

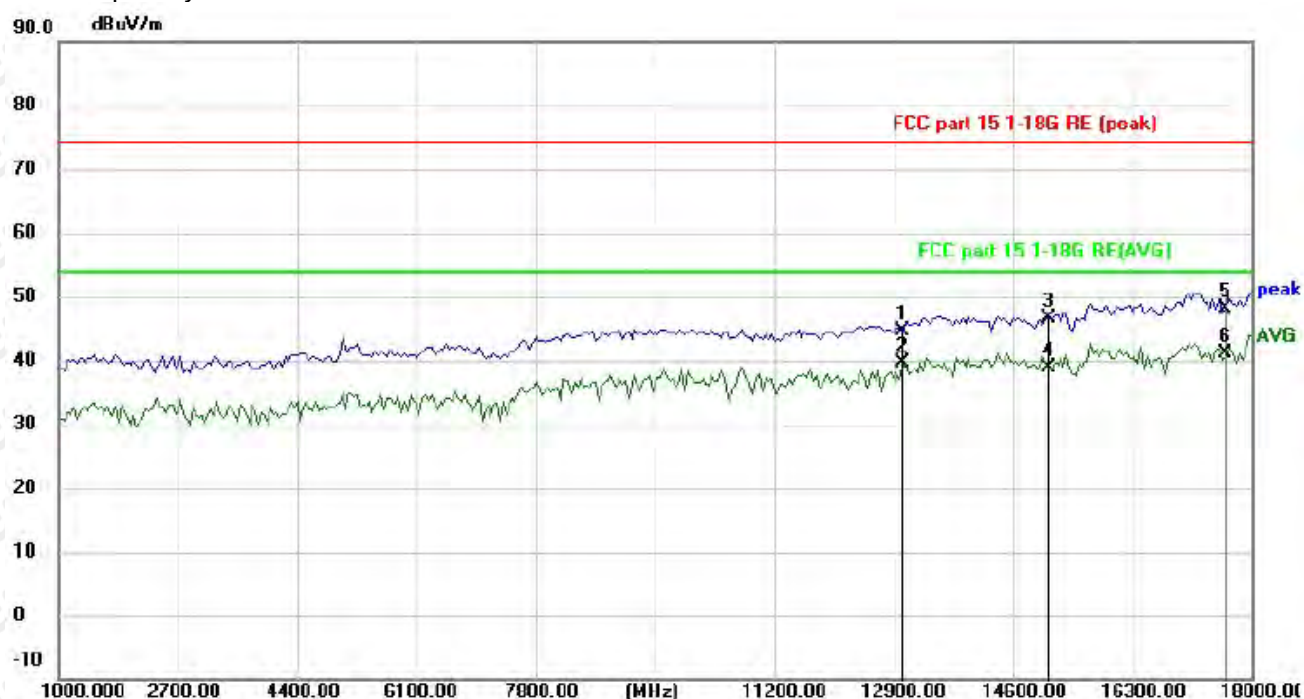
Antenna polarity: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13410.000	36.82	9.66	46.48	74.00	-27.52	peak
2		13410.000	30.59	9.66	40.25	54.00	-13.75	AVG
3		15492.500	37.50	10.05	47.55	74.00	-26.45	peak
4		15492.500	29.20	10.05	39.25	54.00	-14.75	AVG
5		17362.500	34.20	16.45	50.65	74.00	-23.35	peak
6	*	17362.500	25.62	16.45	42.07	54.00	-11.93	AVG

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

Antenna polarity: V



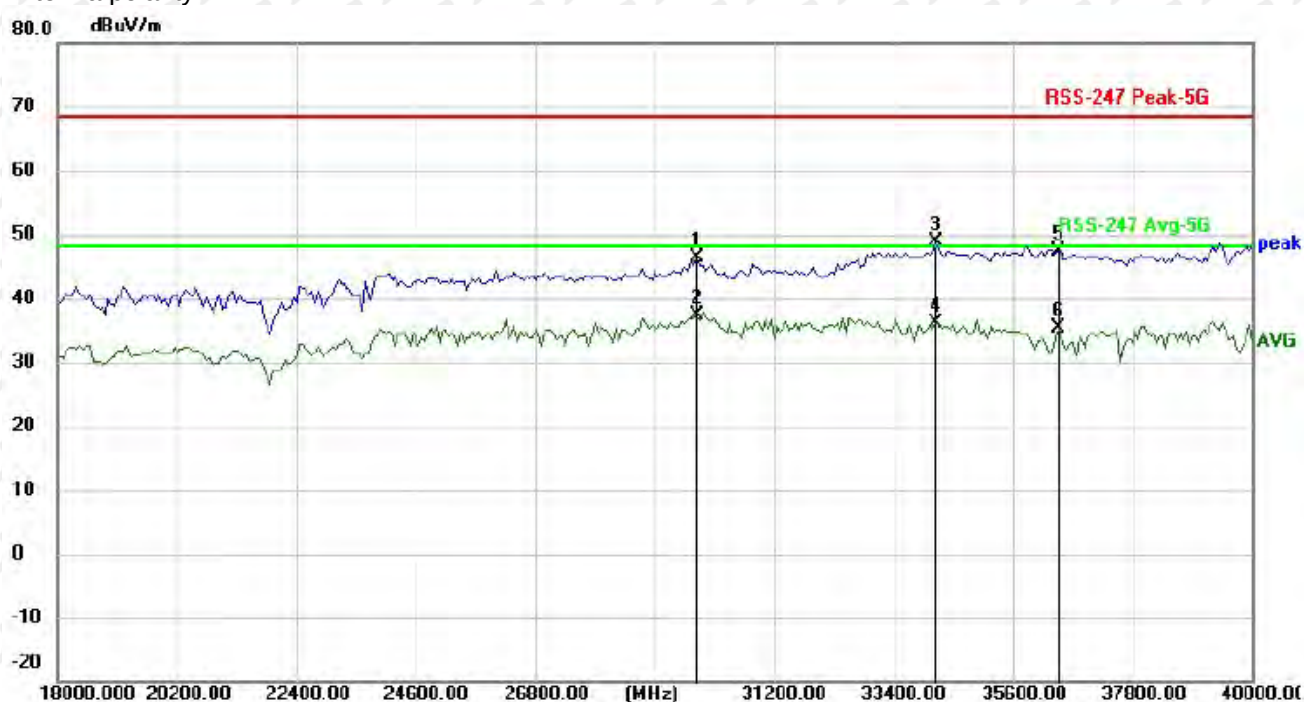
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13027.500	35.64	9.03	44.67	74.00	-29.33	peak
2		13027.500	30.58	9.03	39.61	54.00	-14.39	AVG
3		15110.000	36.23	10.34	46.57	74.00	-27.43	peak
4		15110.000	28.64	10.34	38.98	54.00	-15.02	AVG
5		17617.500	29.90	18.31	48.21	74.00	-25.79	peak
6	*	17617.500	22.74	18.31	41.05	54.00	-12.95	AVG

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

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5230MHz

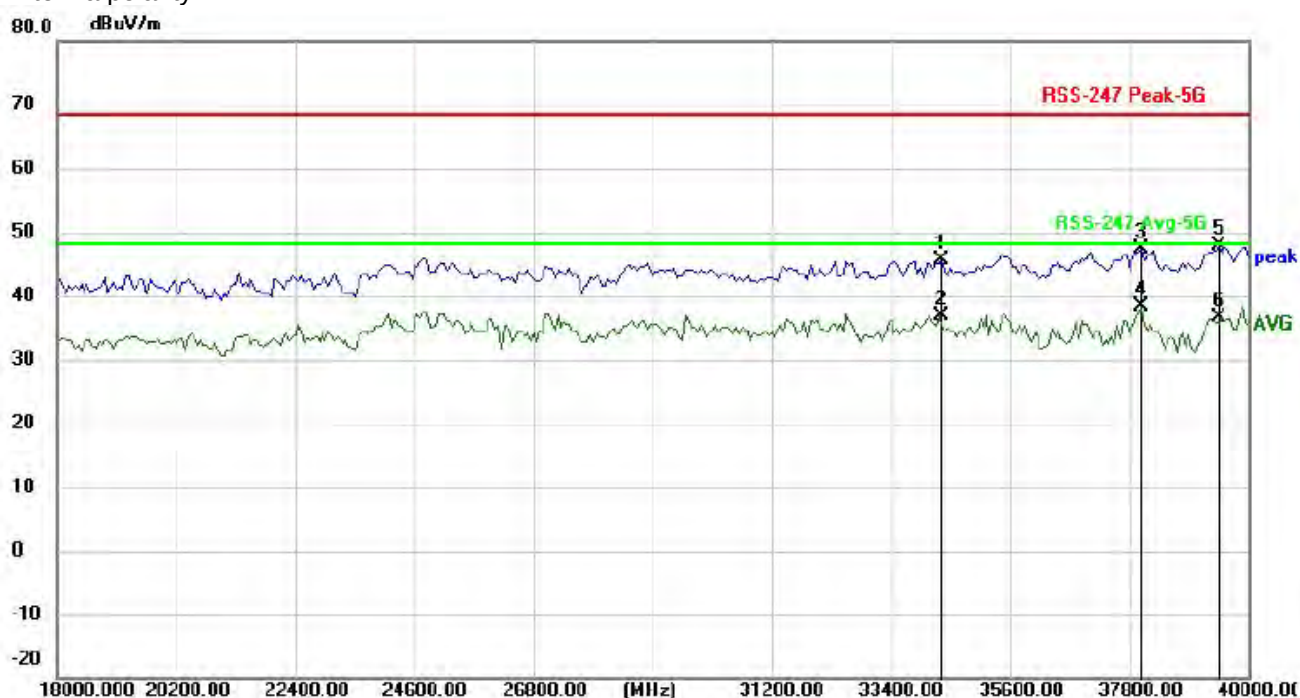
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		29770.000	51.93	-5.46	46.47	68.20	-21.73	peak
2	*	29770.000	42.79	-5.46	37.33	48.20	-10.87	AVG
3		34170.000	51.57	-2.62	48.95	68.20	-19.25	peak
4		34170.000	38.82	-2.62	36.20	48.20	-12.00	AVG
5		36425.000	50.45	-3.04	47.41	68.20	-20.79	peak
6		36425.000	38.44	-3.04	35.40	48.20	-12.80	AVG

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

Antenna polarity: V



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		34335.000	48.12	-2.47	45.65	68.20	-22.55	peak
2		34335.000	39.27	-2.47	36.80	48.20	-11.40	AVG
3		38020.000	50.90	-3.40	47.50	68.20	-20.70	peak
4	*	38020.000	41.74	-3.40	38.34	48.20	-9.86	AVG
5		39450.000	47.03	0.73	47.76	68.20	-20.44	peak
6		39450.000	35.94	0.73	36.67	48.20	-11.53	AVG

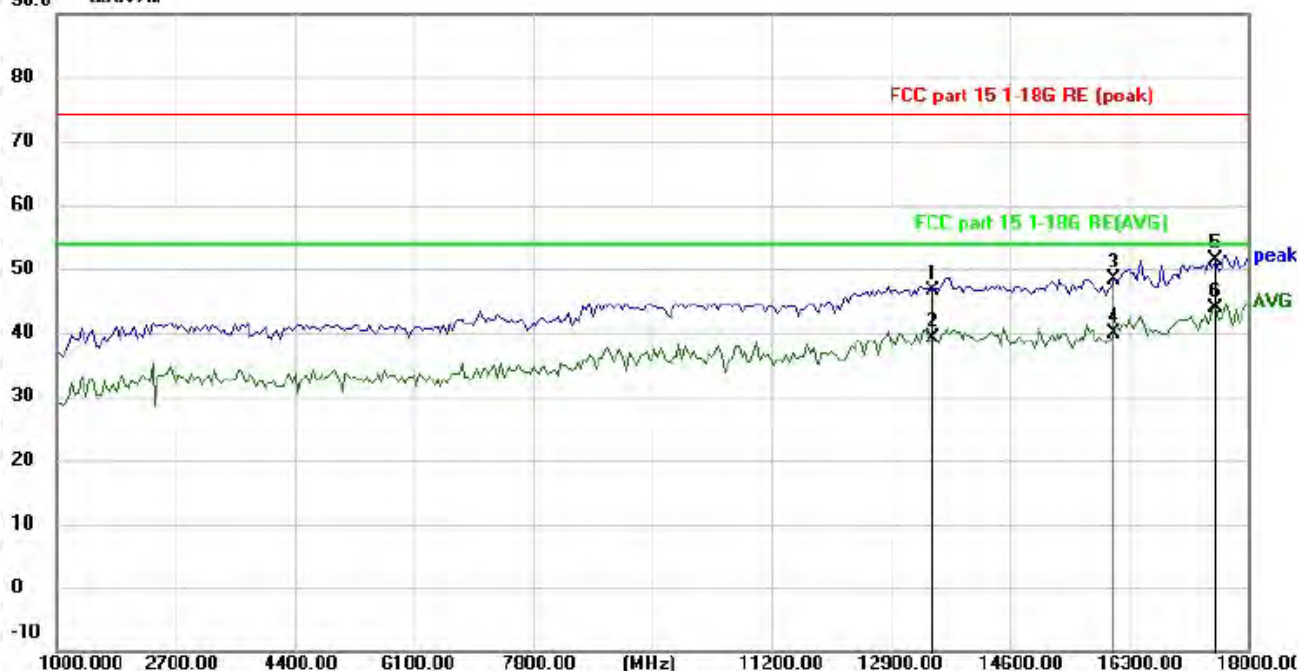
Remark: Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5755MHz

Antenna polarity: H

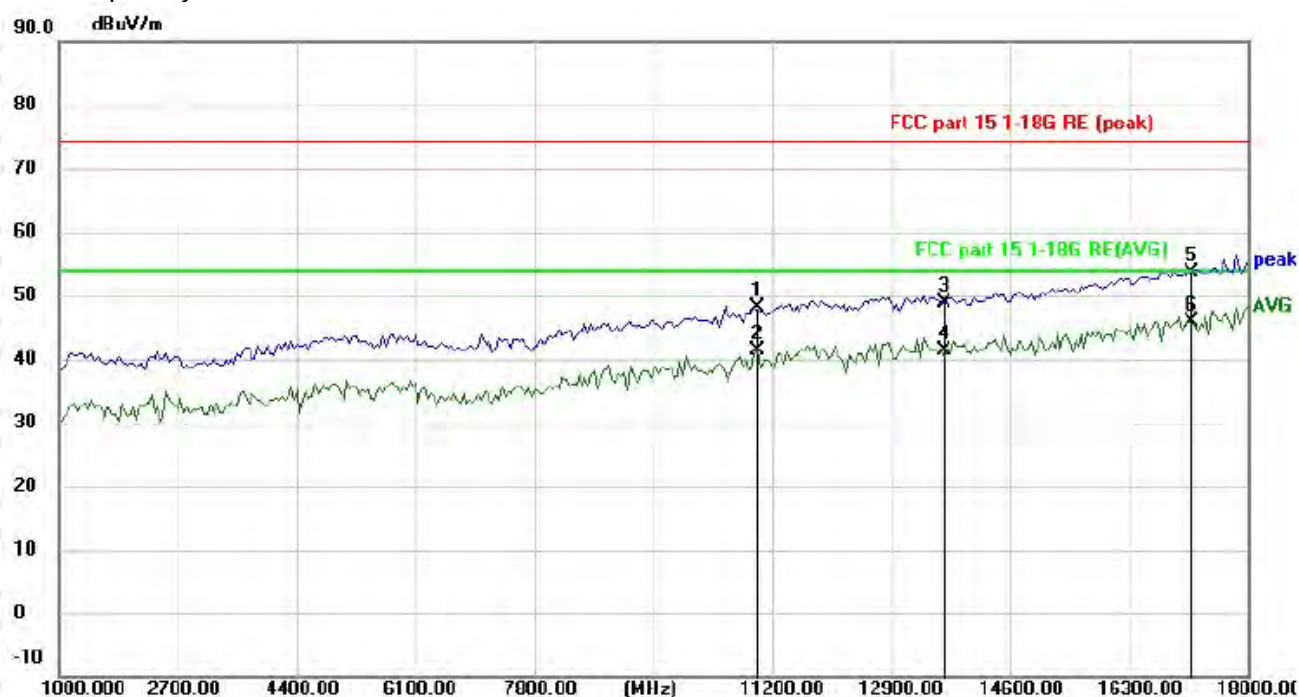
90.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		13495.000	36.92	9.81	46.73	74.00	-27.27	peak
2		13495.000	29.33	9.81	39.14	54.00	-14.86	AVG
3		16087.500	38.36	10.01	48.37	74.00	-25.63	peak
4		16087.500	29.82	10.01	39.83	54.00	-14.17	AVG
5		17532.500	33.77	17.69	51.46	74.00	-22.54	peak
6	*	17532.500	26.07	17.69	43.76	54.00	-10.24	AVG

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

Antenna polarity: V



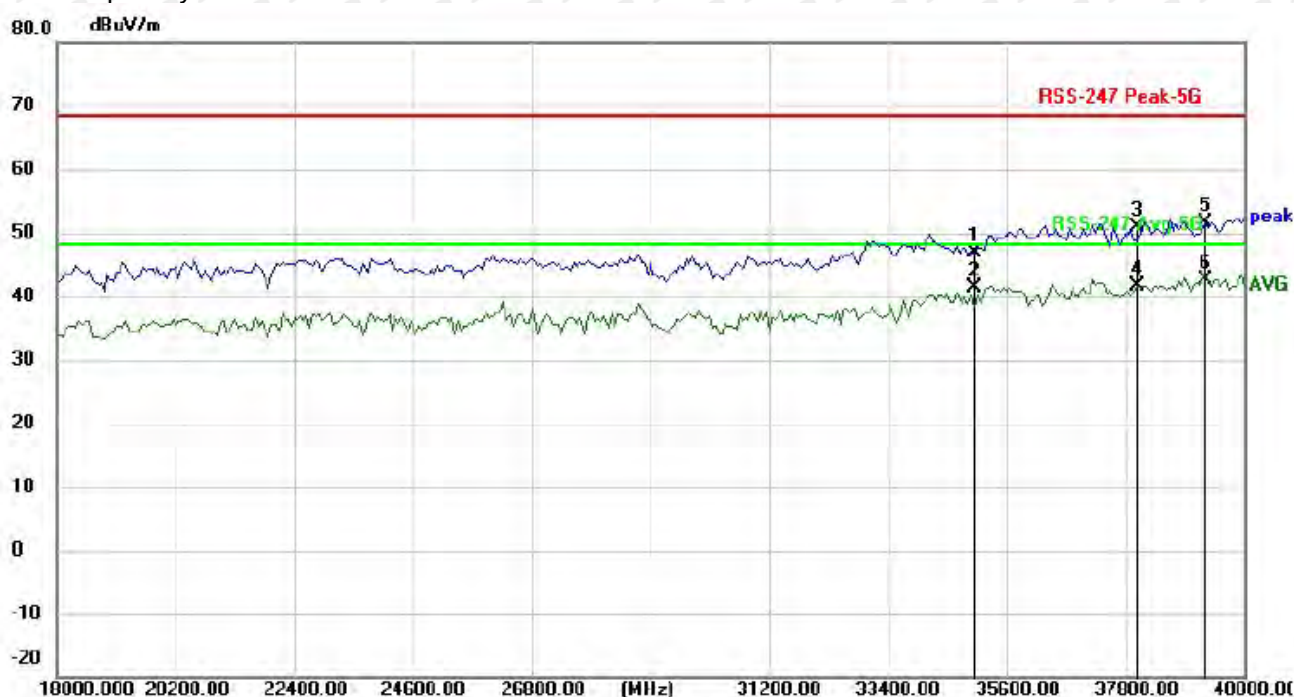
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		10987.500	43.25	4.82	48.07	74.00	-25.93	peak
2		10987.500	36.63	4.82	41.45	54.00	-12.55	AVG
3		13665.000	38.67	10.09	48.76	74.00	-25.24	peak
4		13665.000	31.18	10.09	41.27	54.00	-12.73	AVG
5		17192.500	38.38	15.21	53.59	74.00	-20.41	peak
6	*	17192.500	30.63	15.21	45.84	54.00	-8.16	AVG

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

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5755MHz

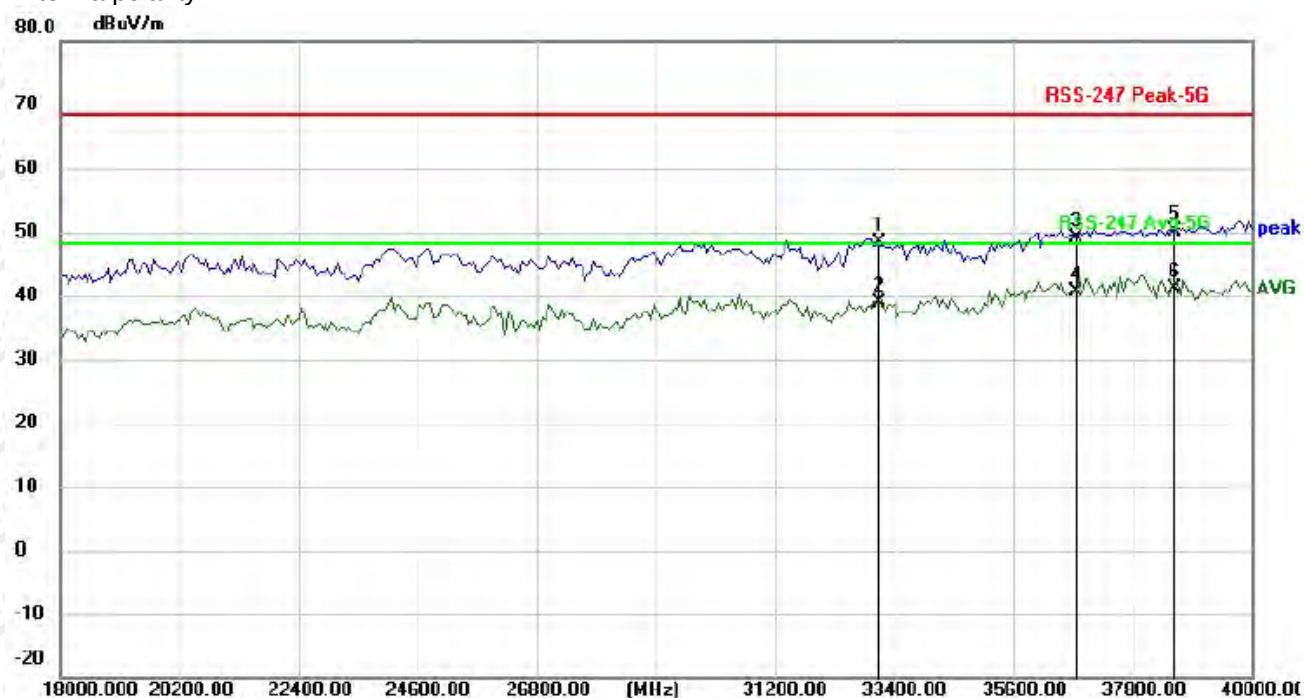
Antenna polarity: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		34995.000	48.81	-1.85	46.96	68.20	-21.24	peak
2		34995.000	43.20	-1.85	41.35	48.20	-6.85	AVG
3		38020.000	54.18	-3.40	50.78	68.20	-17.42	peak
4		38020.000	45.03	-3.40	41.63	48.20	-6.57	AVG
5		39285.000	50.93	0.58	51.51	68.20	-16.69	peak
6	*	39285.000	41.93	0.58	42.51	48.20	-5.69	AVG

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

Antenna polarity: V



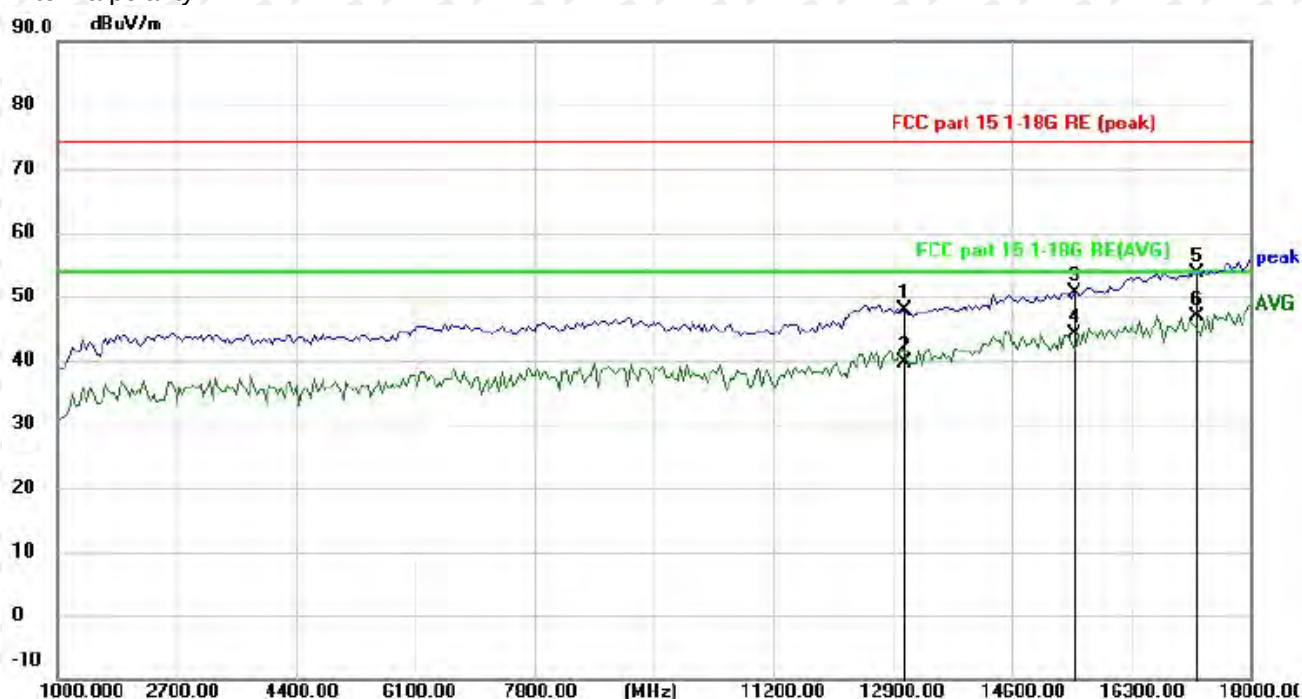
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		33125.000	51.62	-3.23	48.39	68.20	-19.81	peak
2		33125.000	42.13	-3.23	38.90	48.20	-9.30	AVG
3		36755.000	51.99	-2.86	49.13	68.20	-19.07	peak
4		36755.000	43.40	-2.86	40.54	48.20	-7.66	AVG
5		38570.000	51.34	-1.31	50.03	68.20	-18.17	peak
6	*	38570.000	42.42	-1.31	41.11	48.20	-7.09	AVG

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

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5795MHz

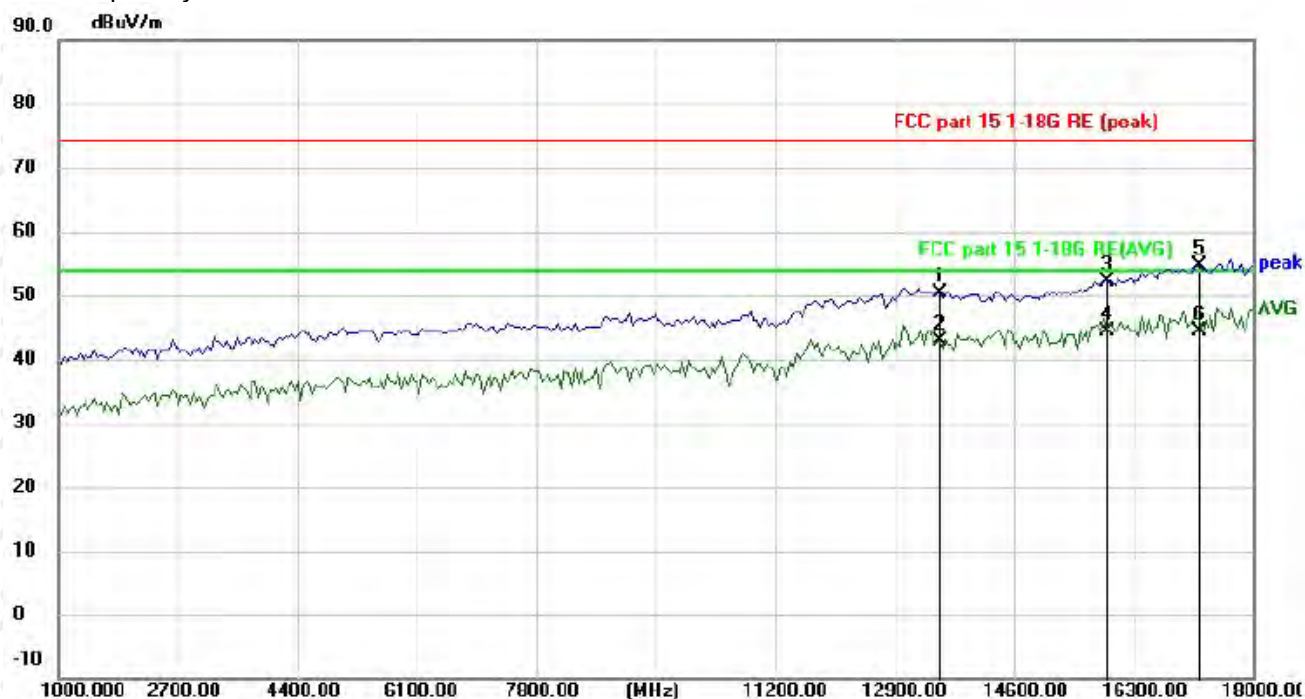
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		13070.000	38.68	9.10	47.78	74.00	-26.22	peak
2		13070.000	30.60	9.10	39.70	54.00	-14.30	AVG
3		15492.500	40.52	10.05	50.57	74.00	-23.43	peak
4		15492.500	34.00	10.05	44.05	54.00	-9.95	AVG
5		17235.000	38.16	15.52	53.68	74.00	-20.32	peak
6	*	17235.000	31.39	15.52	46.91	54.00	-7.09	AVG

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

Antenna polarity: V



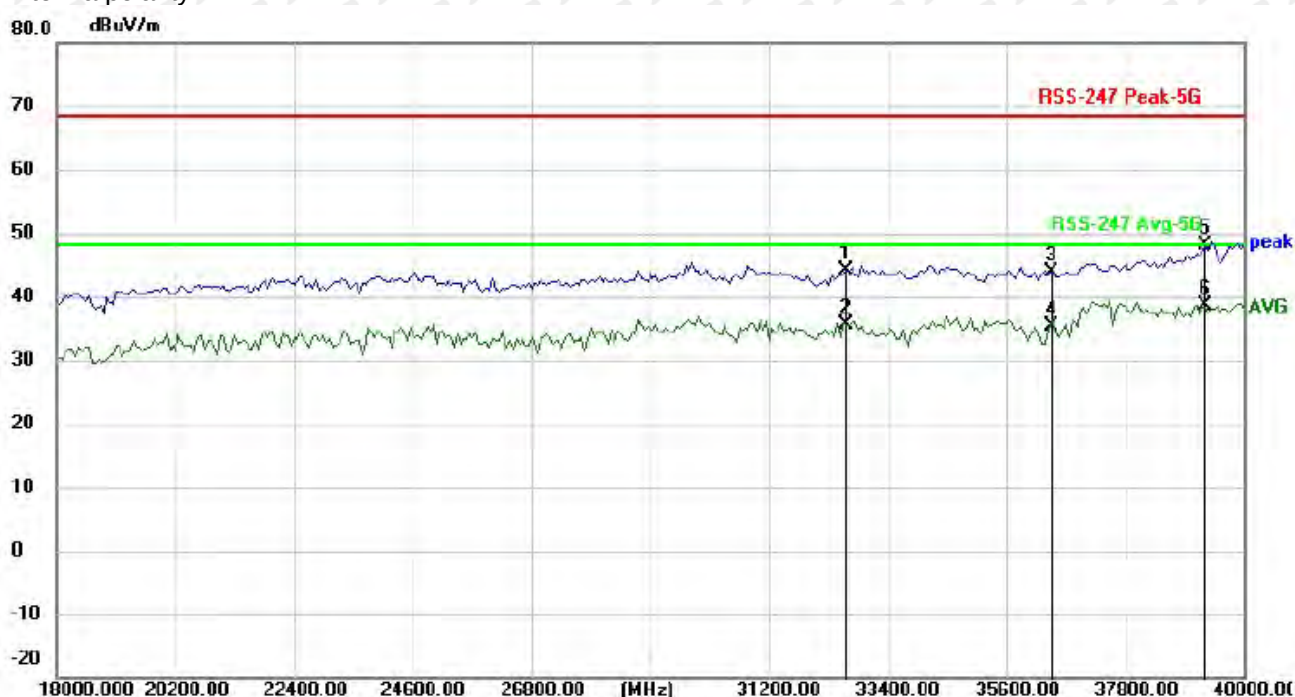
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		13537.500	40.52	9.88	50.40	74.00	-23.60	peak
2		13537.500	32.93	9.88	42.81	54.00	-11.19	AVG
3		15917.500	42.46	9.71	52.17	74.00	-21.83	peak
4	*	15917.500	34.74	9.71	44.45	54.00	-9.55	AVG
5		17235.000	39.16	15.52	54.68	74.00	-19.32	peak
6		17235.000	28.78	15.52	44.30	54.00	-9.70	AVG

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

Modulation : 802.11ax40 (the worst data)/ANT1+ANT2

Test Channel : 5795MHz

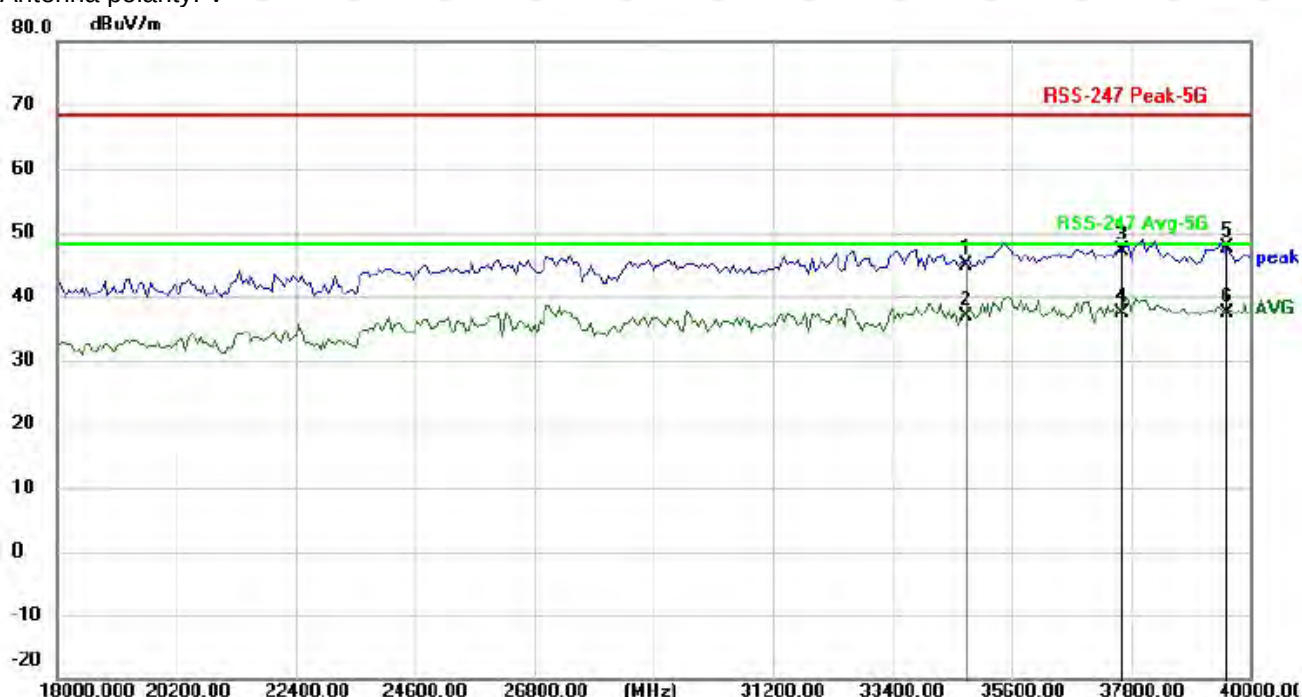
Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		32630.000	47.68	-3.65	44.03	68.20	-24.17	peak
2		32630.000	39.40	-3.65	35.75	48.20	-12.45	AVG
3		36425.000	46.95	-3.04	43.91	68.20	-24.29	peak
4		36425.000	38.30	-3.04	35.26	48.20	-12.94	AVG
5		39285.000	47.43	0.58	48.01	68.20	-20.19	peak
6	*	39285.000	38.05	0.58	38.63	48.20	-9.57	AVG

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

Antenna polarity: V



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		34775.000	47.03	-2.06	44.97	68.20	-23.23	peak
2		34775.000	38.87	-2.06	36.81	48.20	-11.39	AVG
3		37635.000	50.33	-3.20	47.13	68.20	-21.07	peak
4		37635.000	40.56	-3.20	37.36	48.20	-10.84	AVG
5		39560.000	46.85	0.84	47.69	68.20	-20.51	peak
6	*	39560.000	36.57	0.84	37.41	48.20	-10.79	AVG

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

Remark:

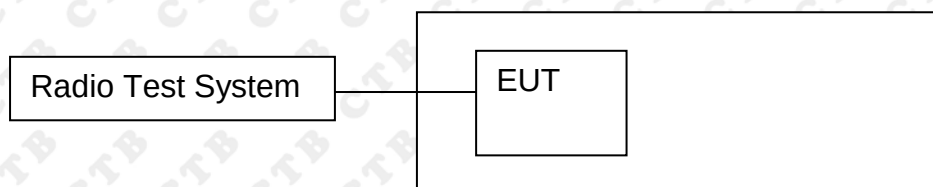
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

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

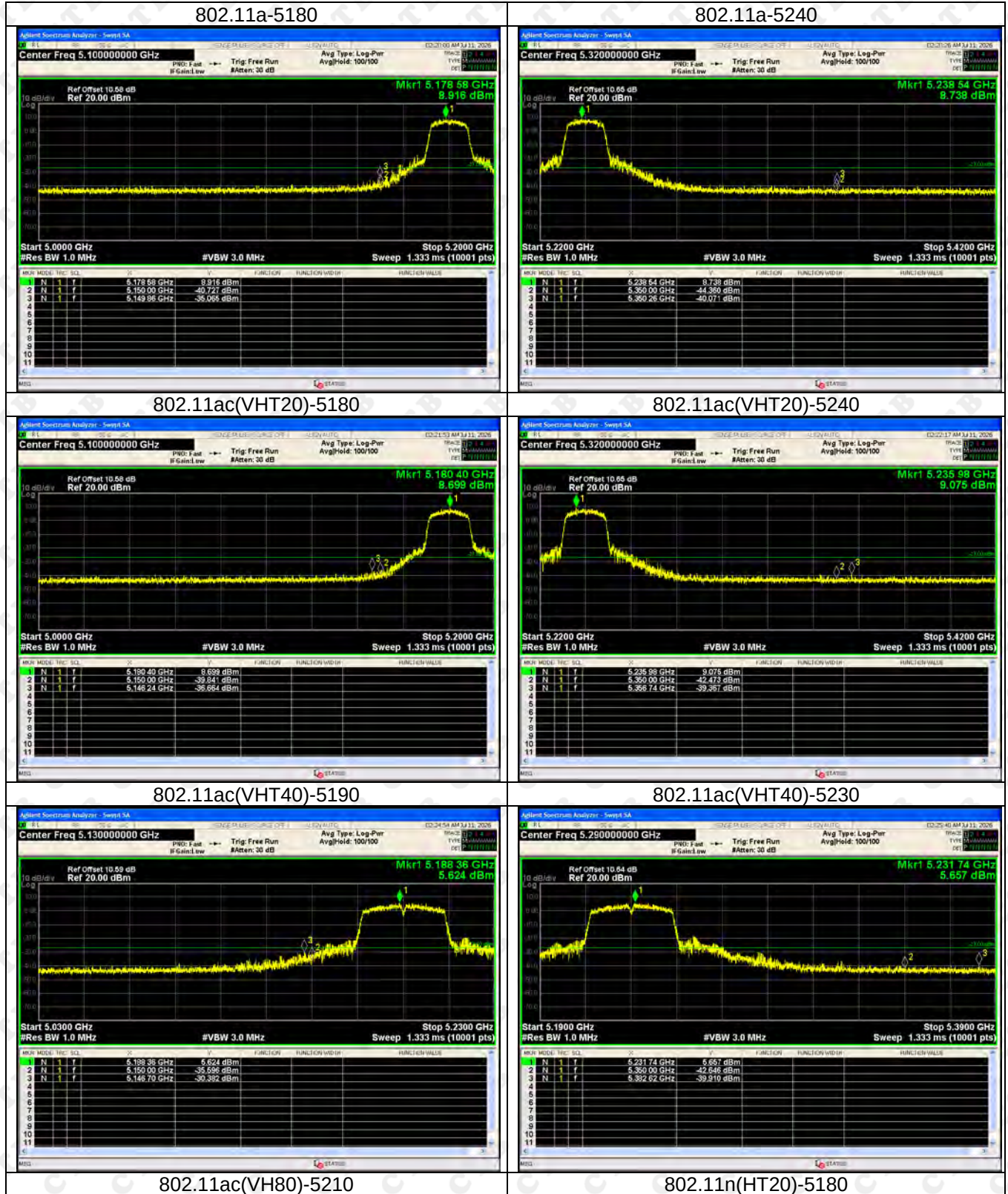
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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

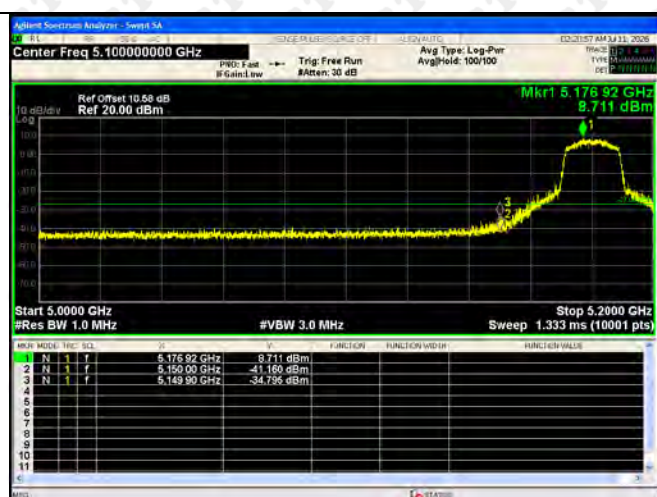
ANT 1

5150-5250MHz

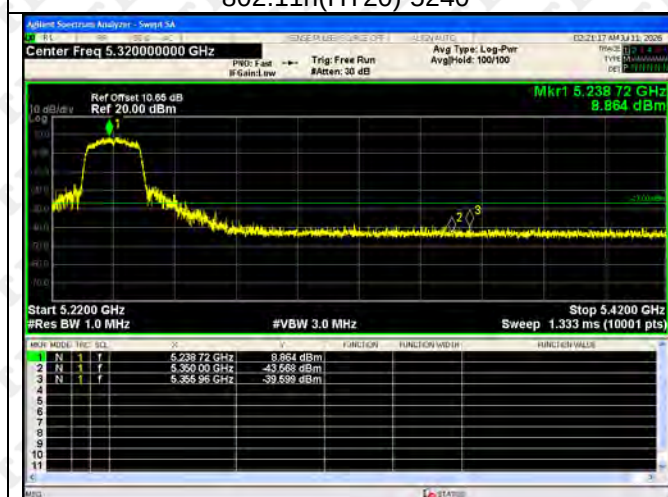




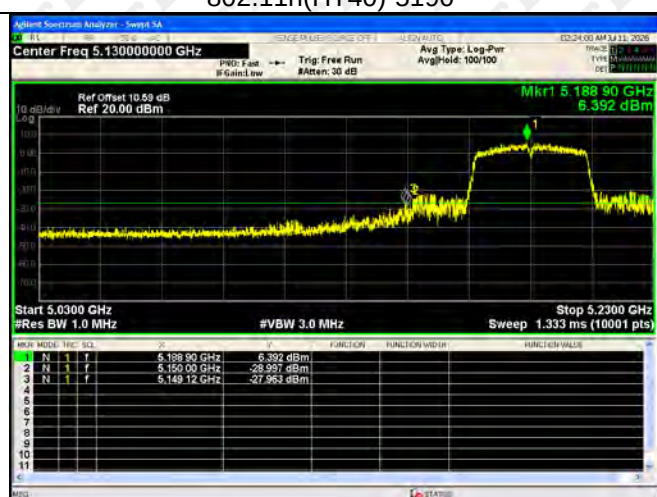
802.11n(HT20)-5240



802.11n(HT40)-5190



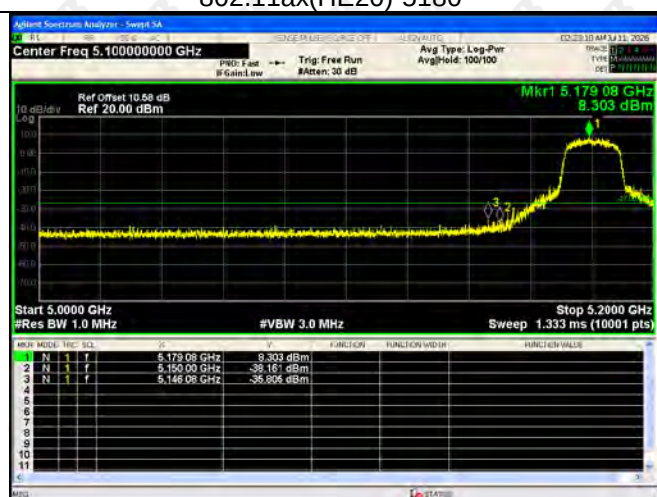
802.11n(HT40)-5230



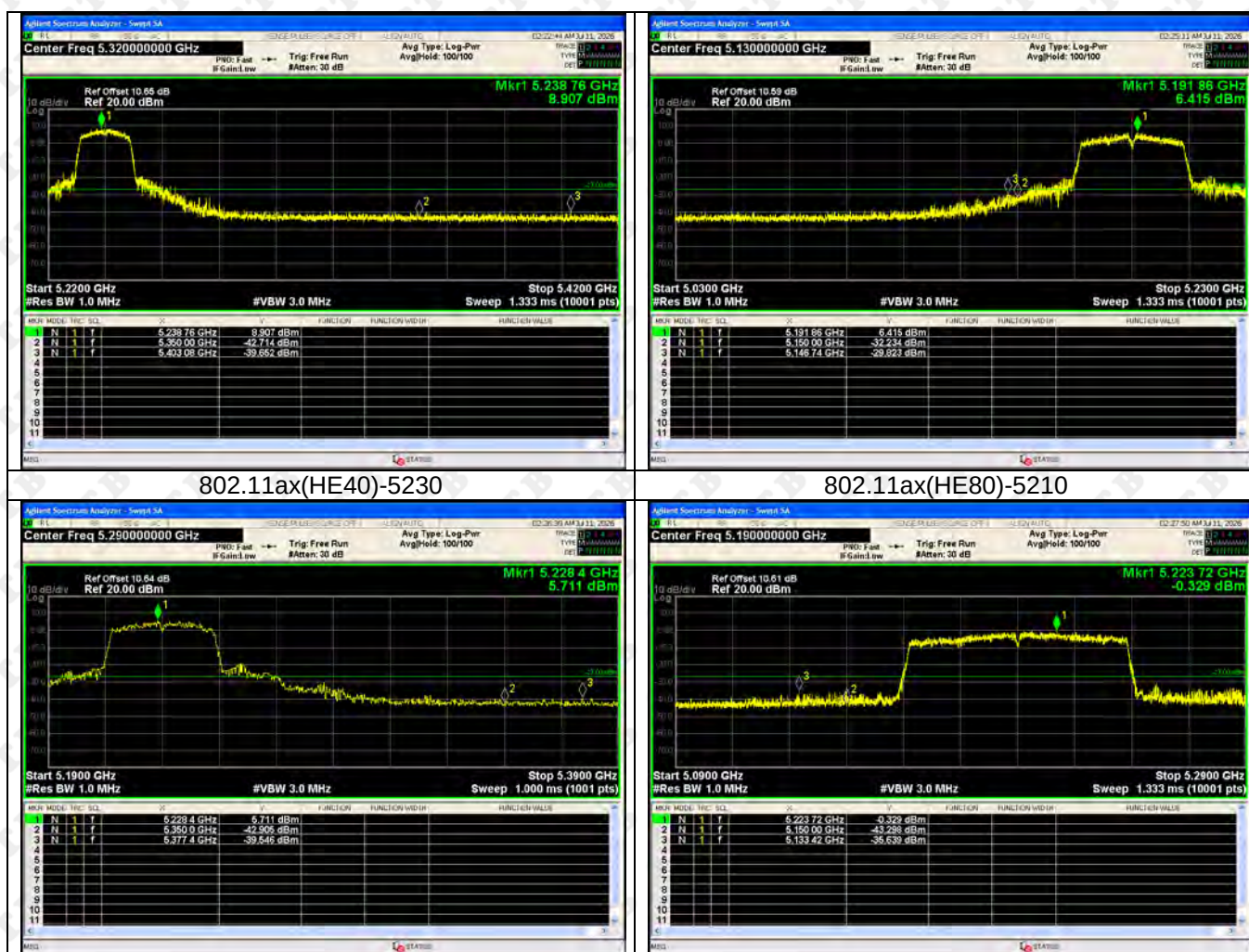
802.11ax(HE20)-5180



802.11ax(HE20)-5240



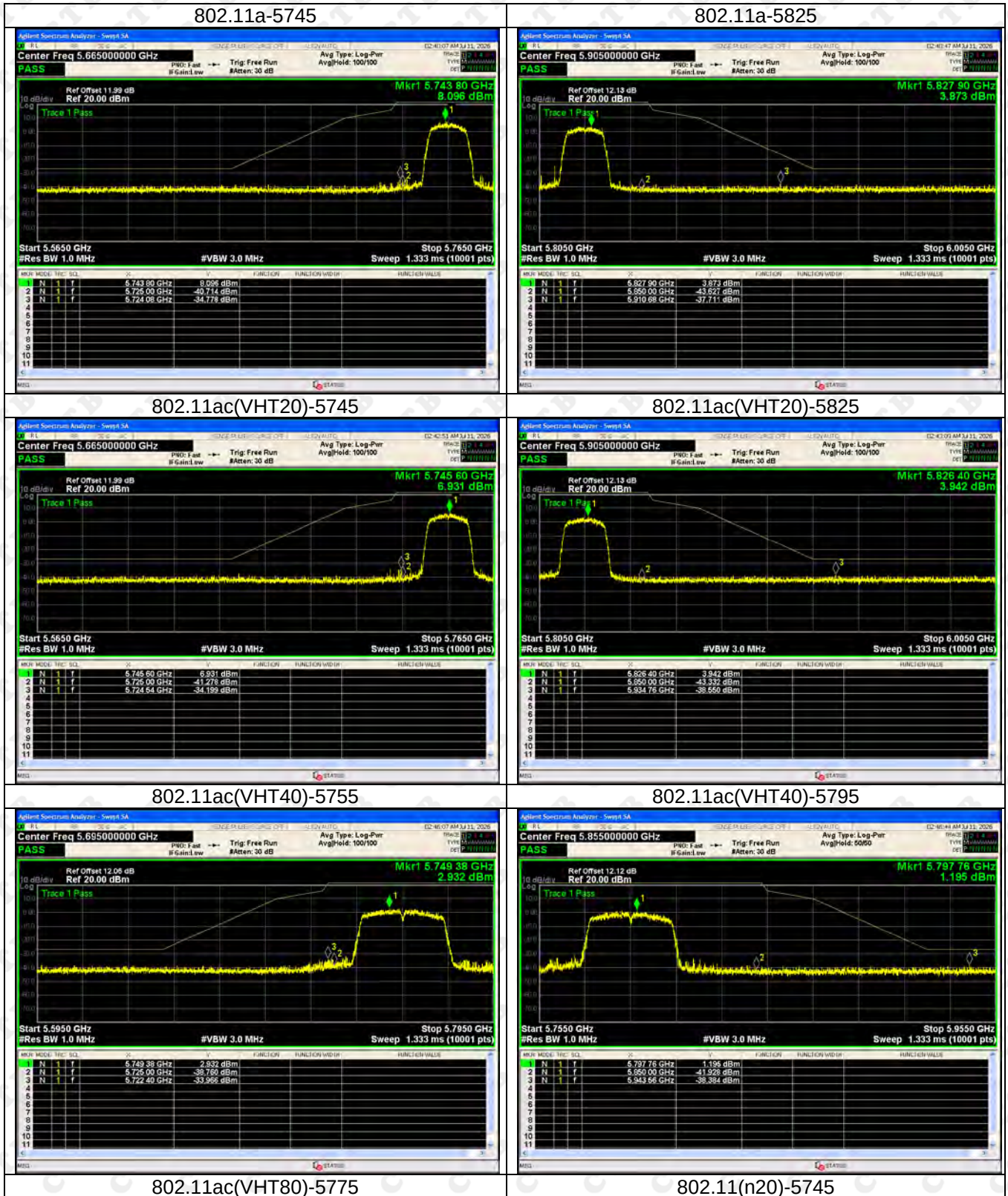
802.11ax(HE40)-5190



Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

Following shows an offset computation example in 5180MHz with line loss 8.79dB and antenna gain 1.79dB.
 $\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{antenna gain factor (dB)} = 8.79 + 1.79 = 10.58(\text{dB})$

ANT1:
5725MHz ~5850MHz

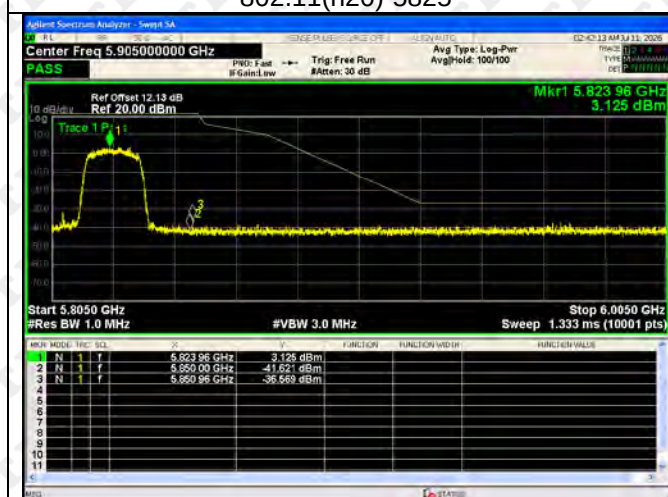




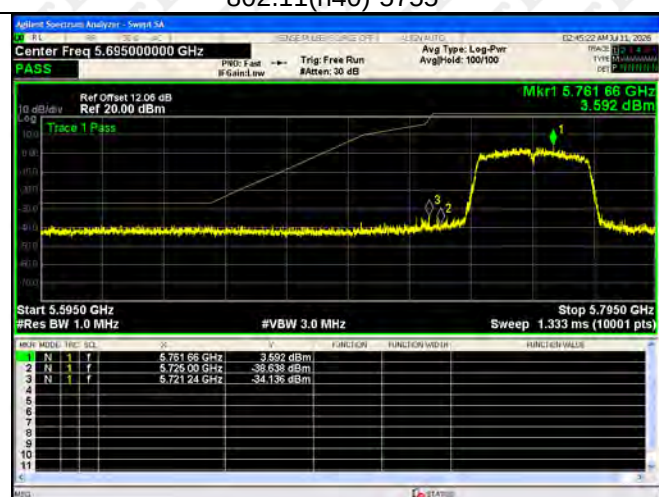
802.11(n20)-5825



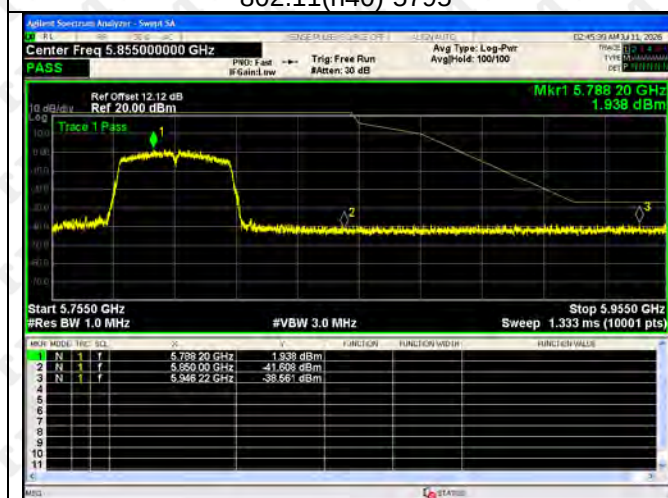
802.11(n40)-5755



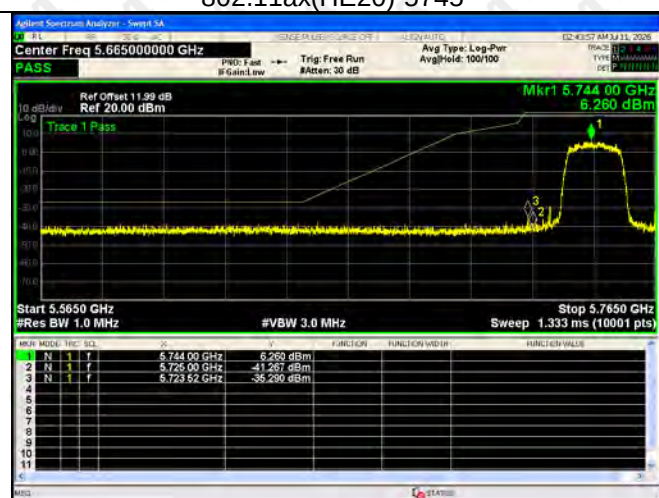
802.11(n40)-5795



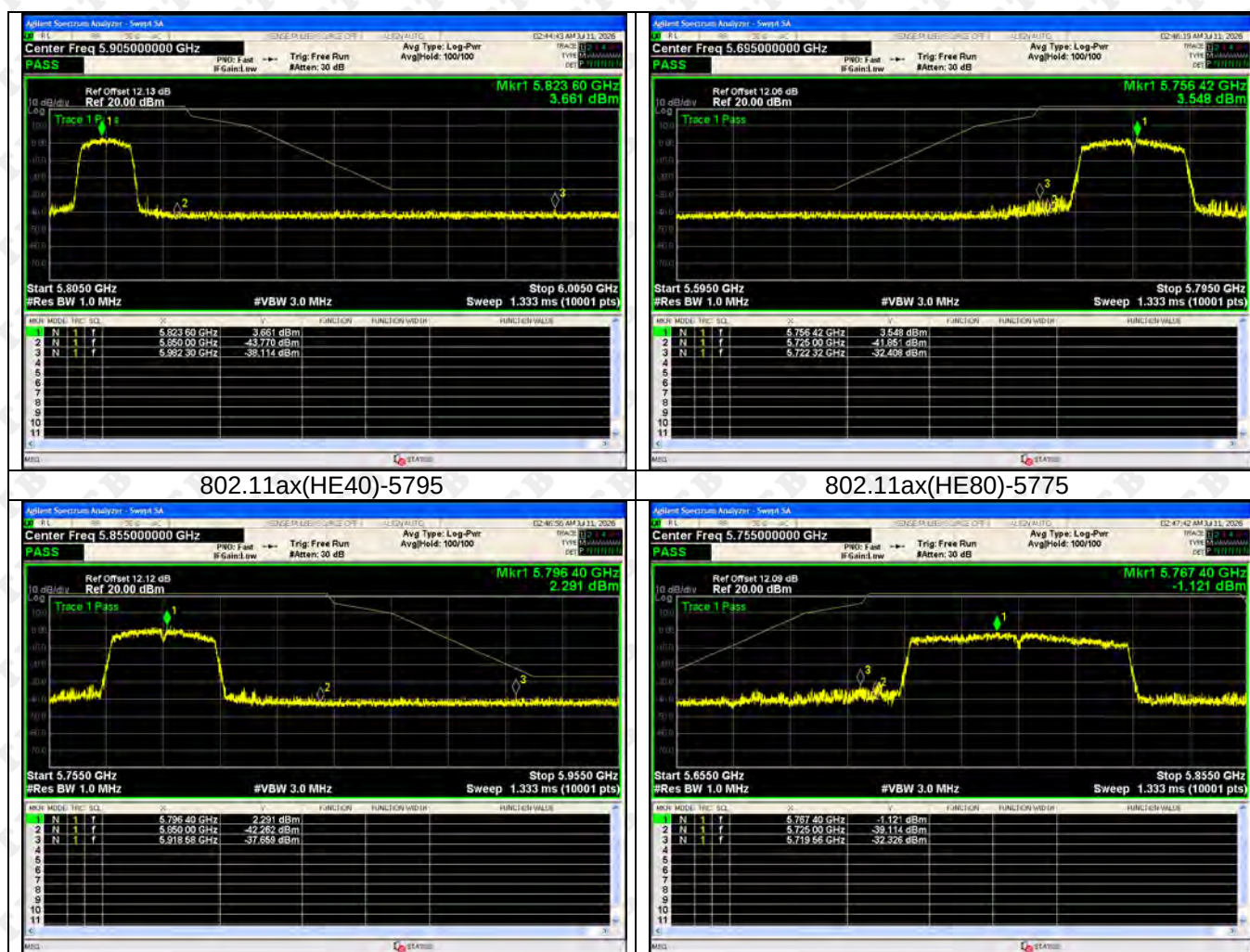
802.11ax(HE20)-5745



802.11ax(HE20)-5825



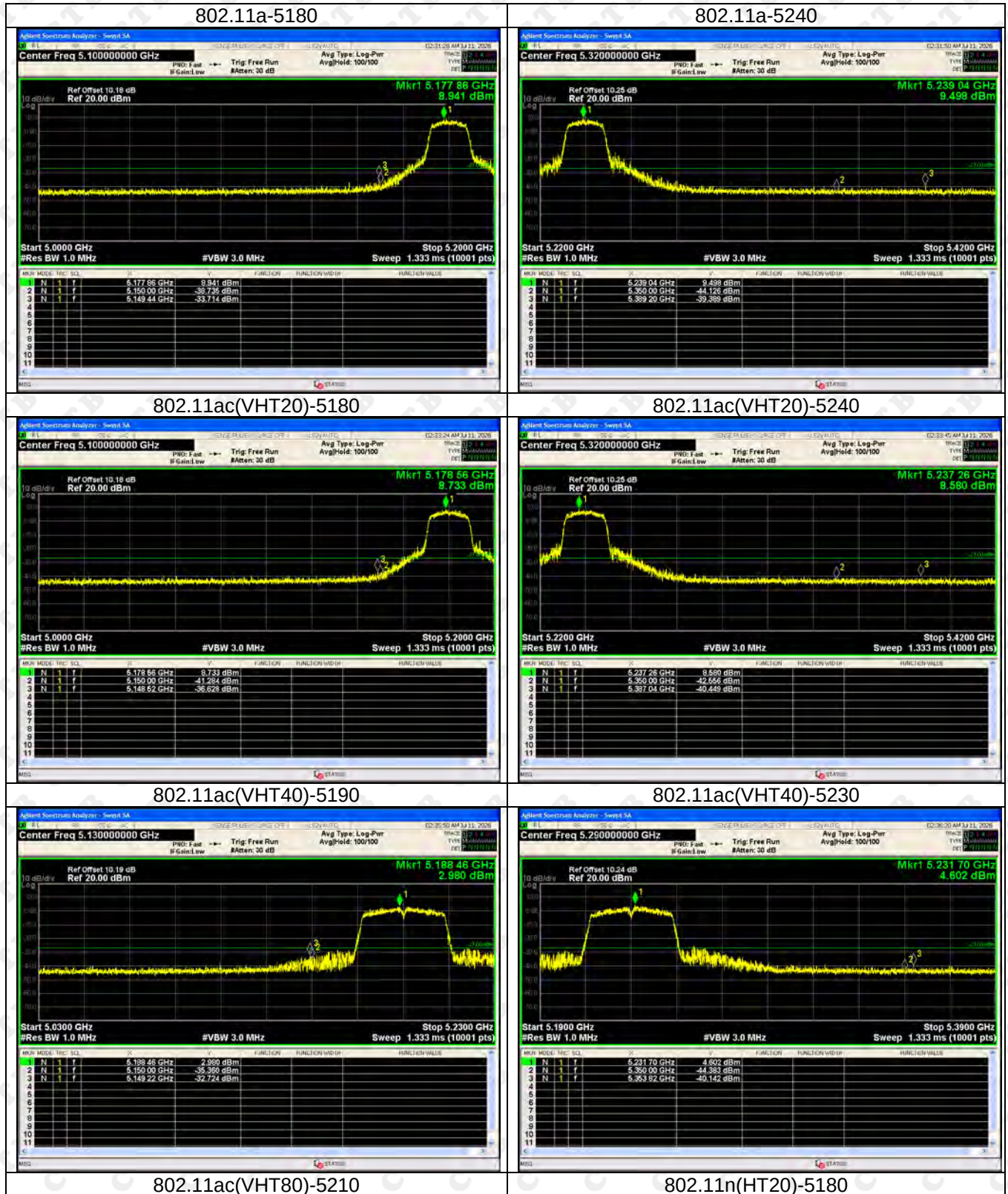
802.11ax(HE40)-5755

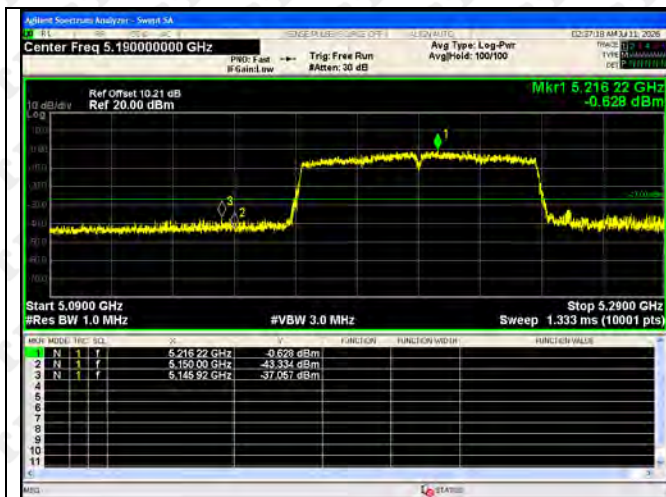


Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

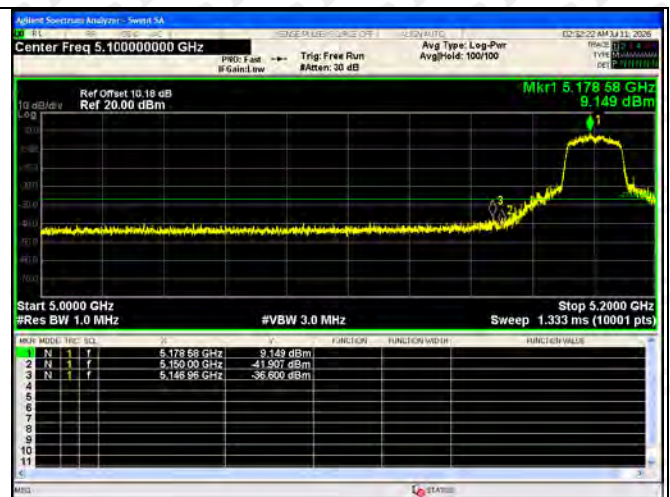
Following shows an offset computation example in 5745MHz with line loss 9.13dB and antenna gain 2.86dB.
 Offset(dB) = RF cable loss(dB) + antenna gain factor (dB) = 9.13 + 2.86 = 11.99 (dB)

ANT 2
5150-5250MHz





802.11n(HT20)-5240



802.11n(HT40)-5190



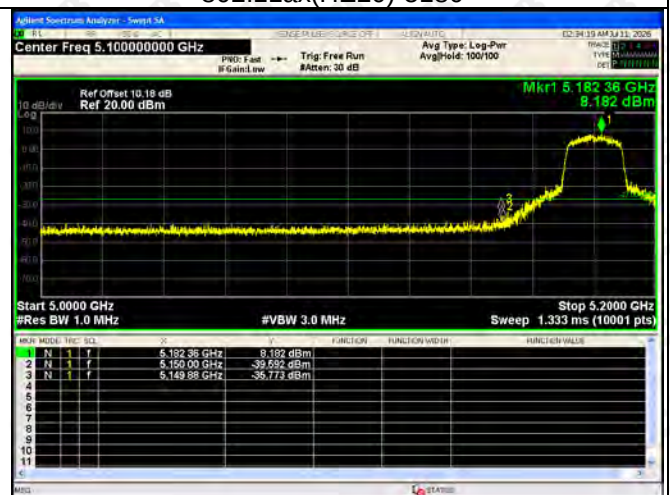
802.11n(HT40)-5230



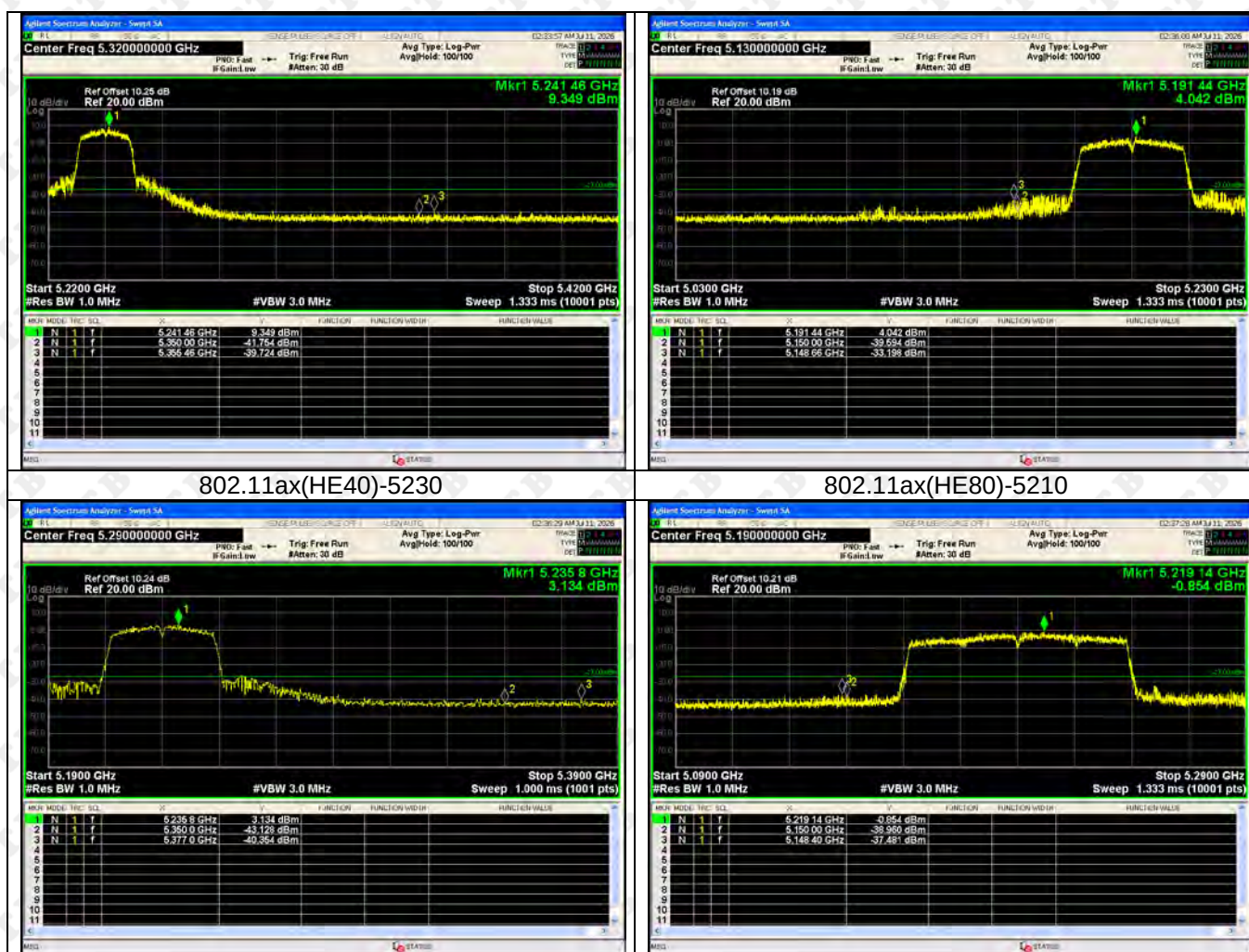
802.11ax(HE20)-5180



802.11ax(HE20)-5240



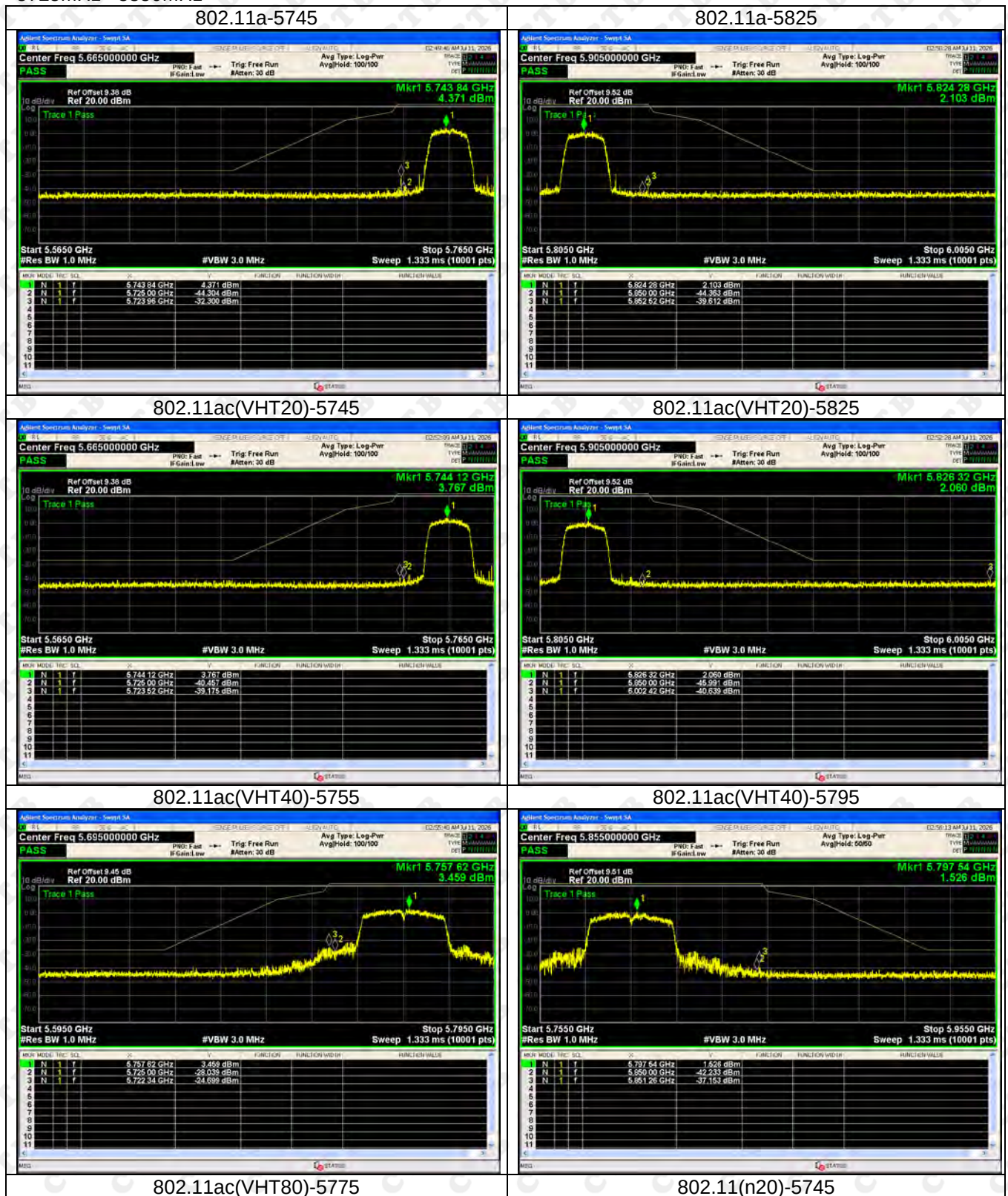
802.11ax(HE40)-5190



Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

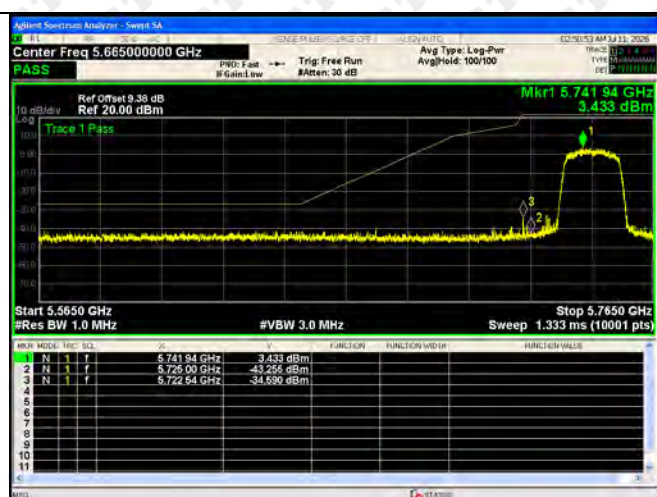
Following shows an offset computation example in 5180MHz with line loss 8.79dB and antenna gain 1.39dB.
 $\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{antenna gain factor (dB)} = 8.79 + 1.39 = 10.18(\text{dB})$

ANT2:
5725MHz ~5850MHz





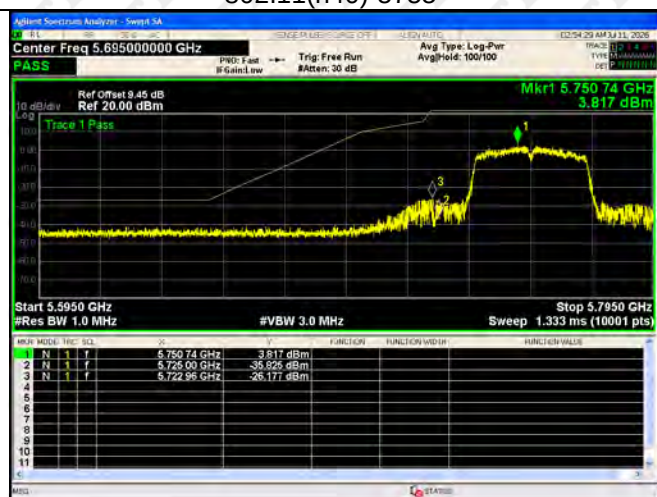
802.11(n20)-5825



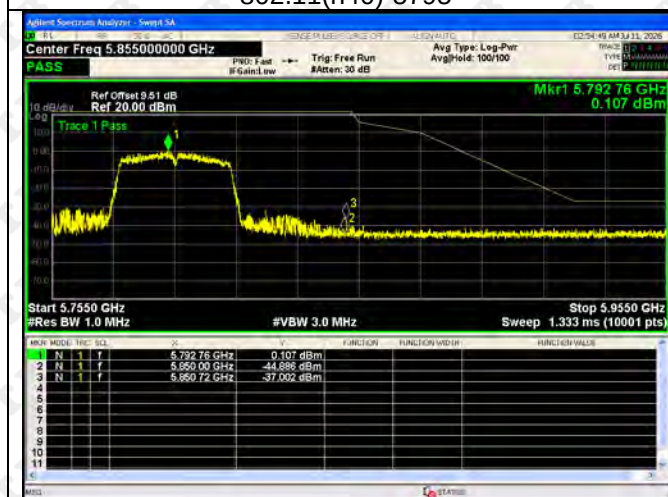
802.11(n40)-5755



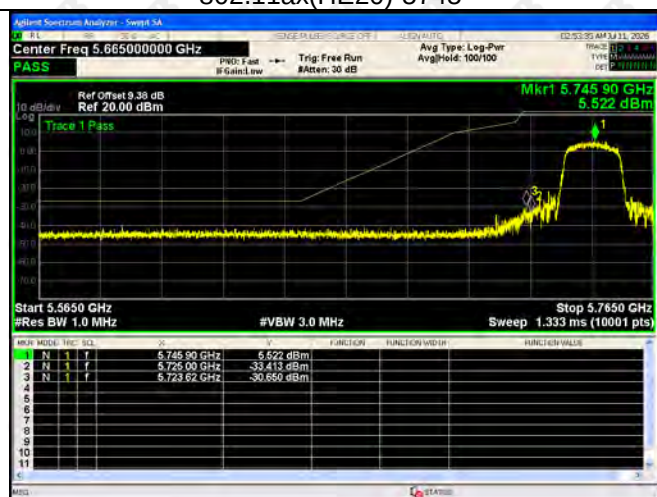
802.11(n40)-5795



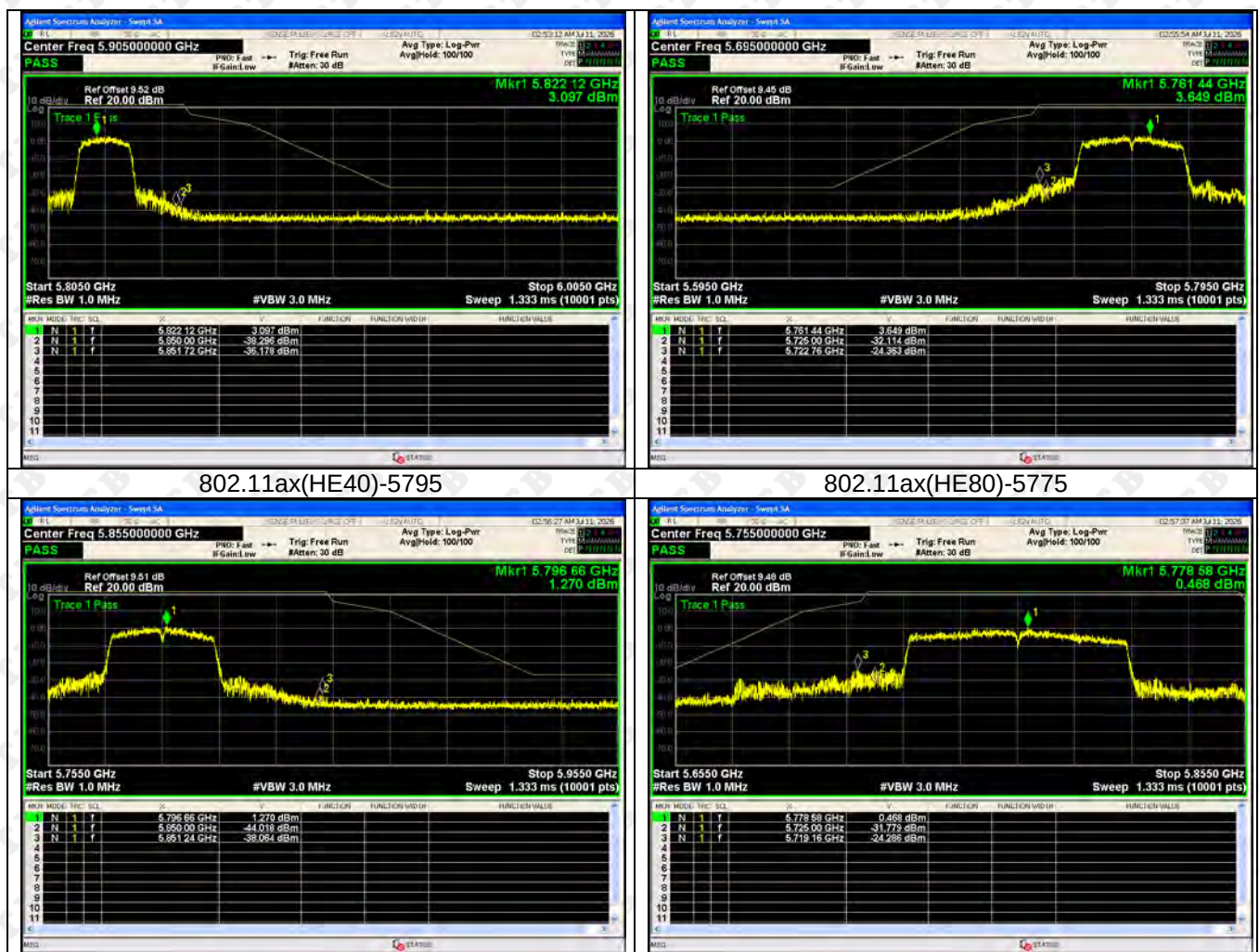
802.11ax(HE20)-5745



802.11ax(HE20)-5825



802.11ax(HE40)-5755

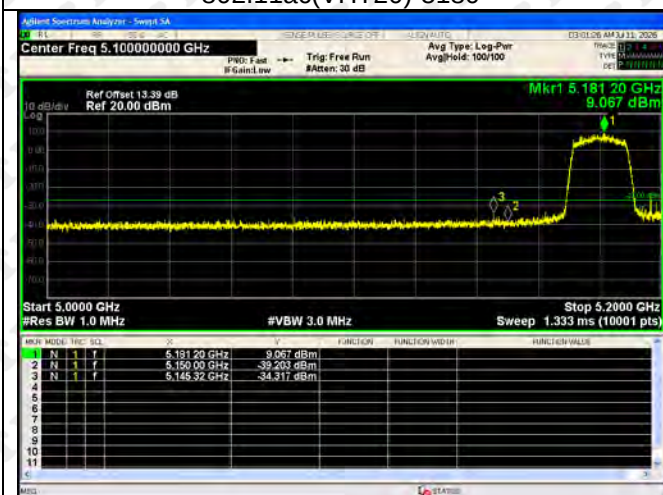


Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

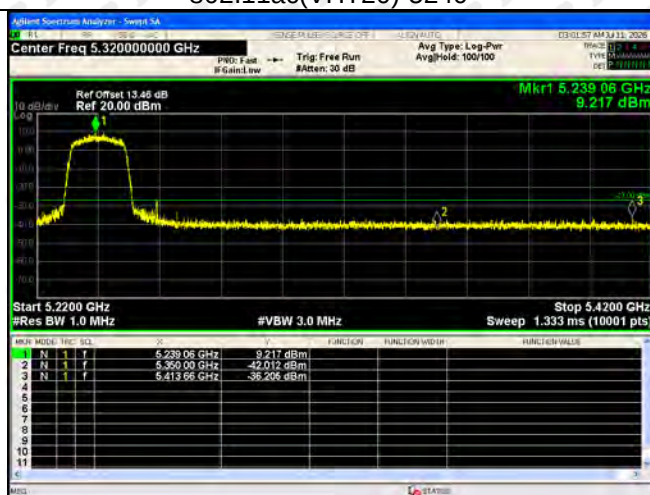
Following shows an offset computation example in 5745MHz with line loss 9.13dB and antenna gain 0.25dB.
 $\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{antenna gain factor (dB)} = 9.13 + 0.25 = 9.38 \text{ (dB)}$

MIMO ANT1:
5150-5250MHz

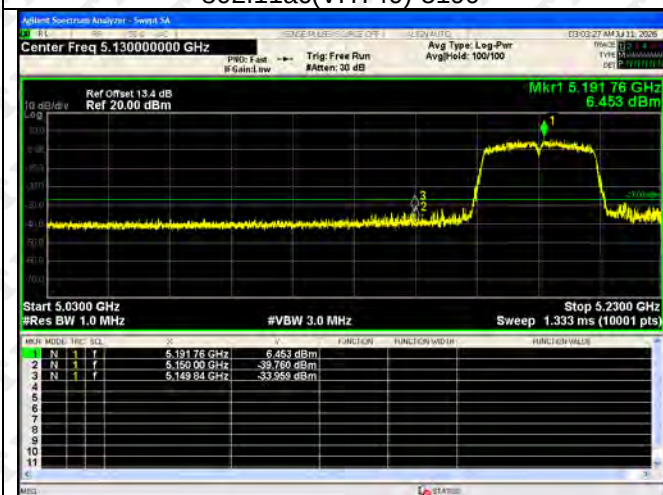
802.11ac(VHT20)-5180



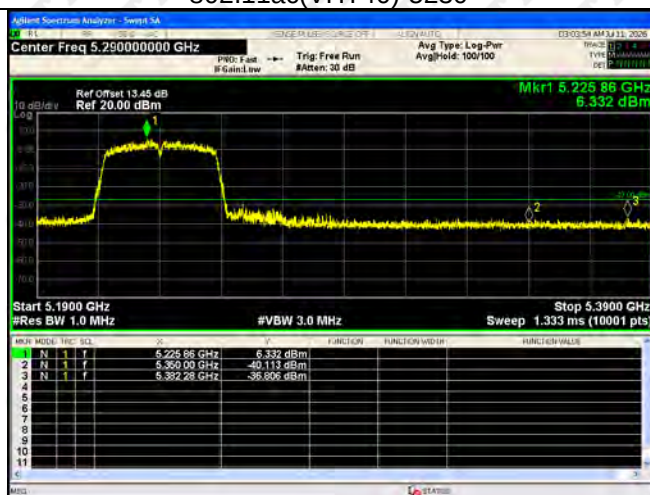
802.11ac(VHT20)-5240



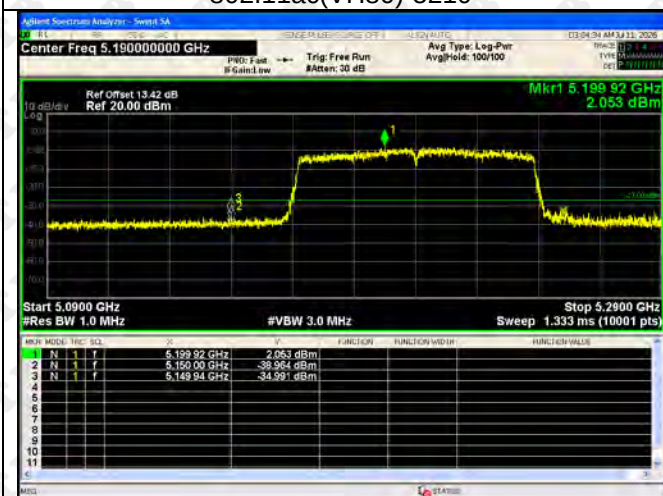
802.11ac(VHT40)-5190



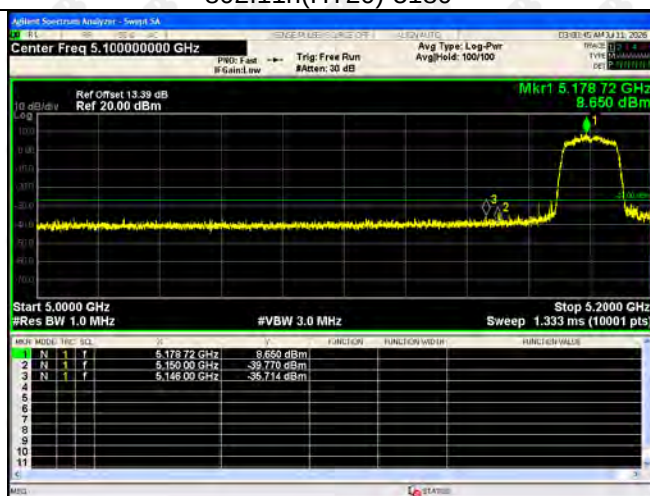
802.11ac(VHT40)-5230



802.11ac(VH80)-5210

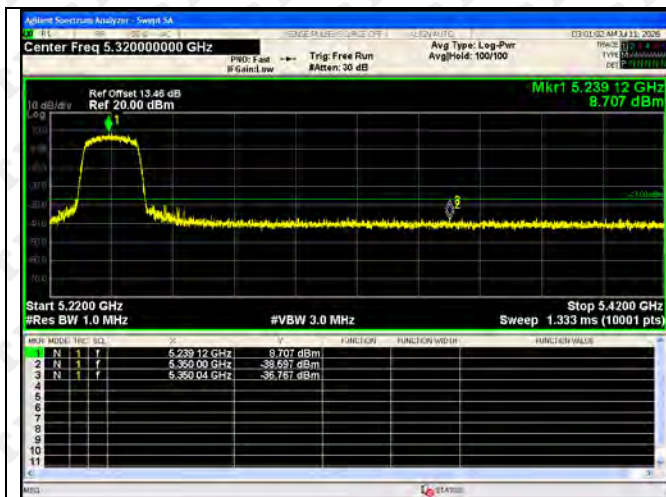


802.11n(HT20)-5180



802.11n(HT20)-5240

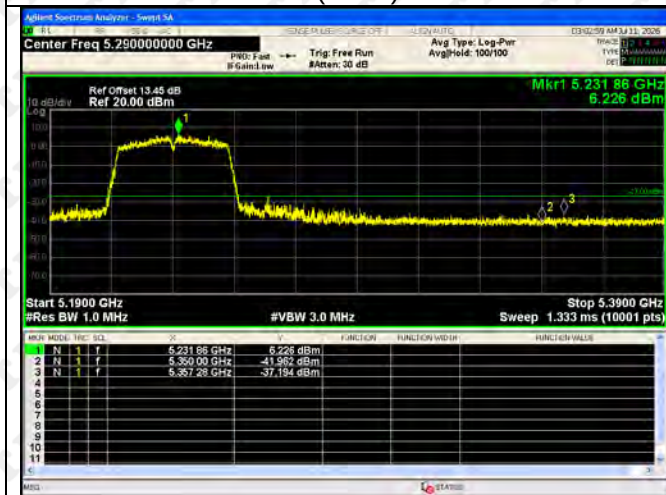
802.11n(HT40)-5190



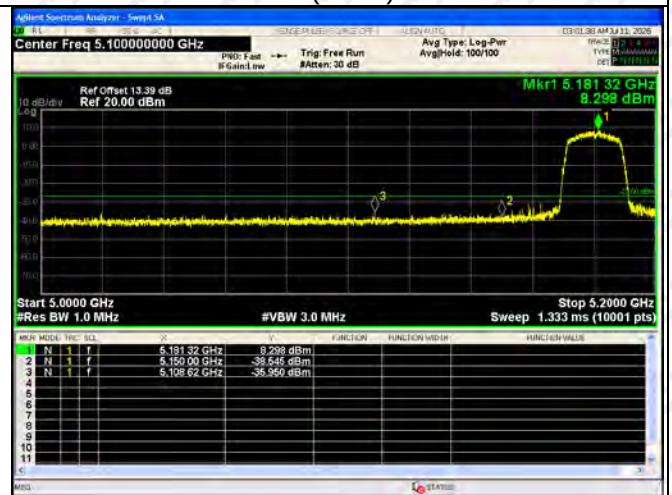
802.11n(HT40)-5230



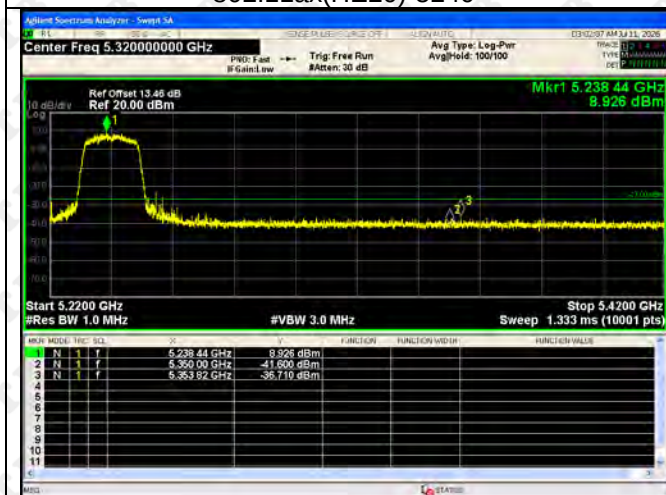
802.11ax(HE20)-5180



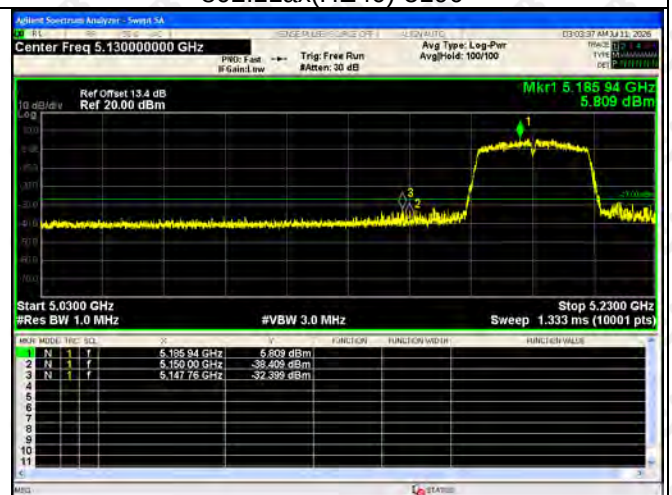
802.11ax(HE20)-5240



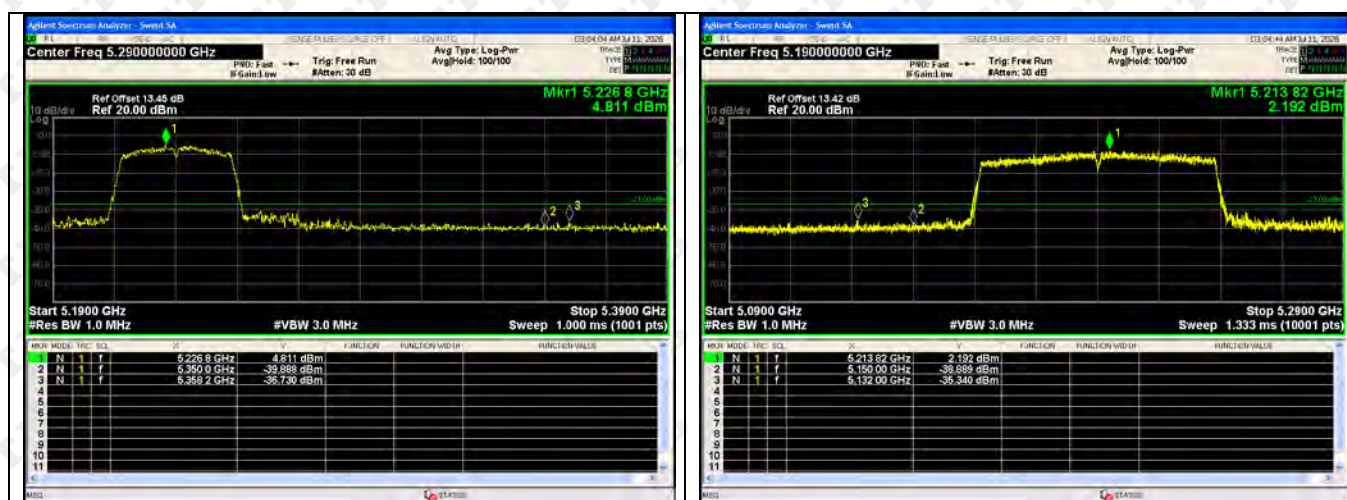
802.11ax(HE40)-5190



802.11ax(HE40)-5230



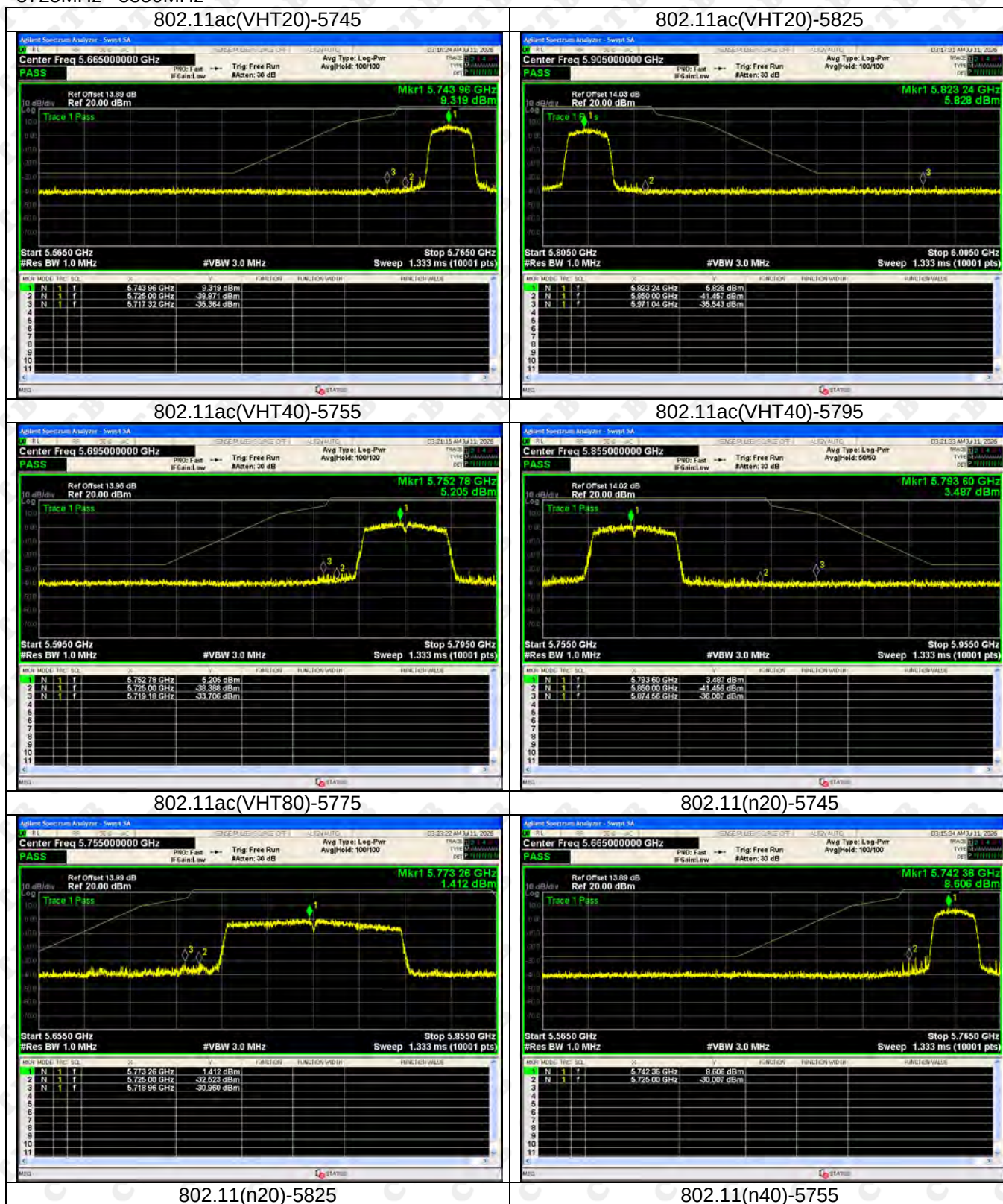
802.11ax(HE80)-5210

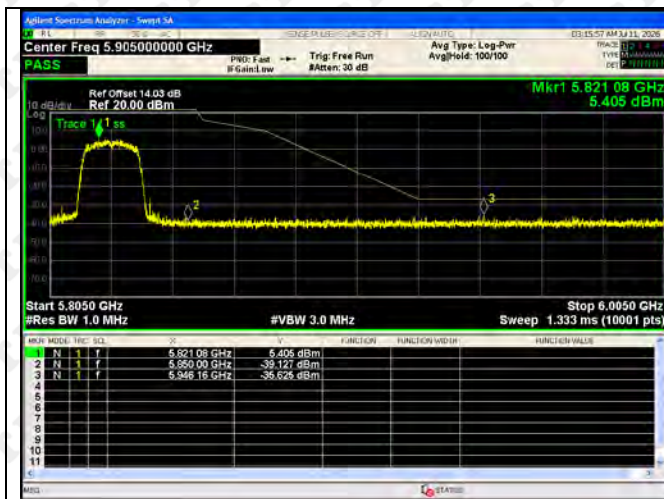


Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

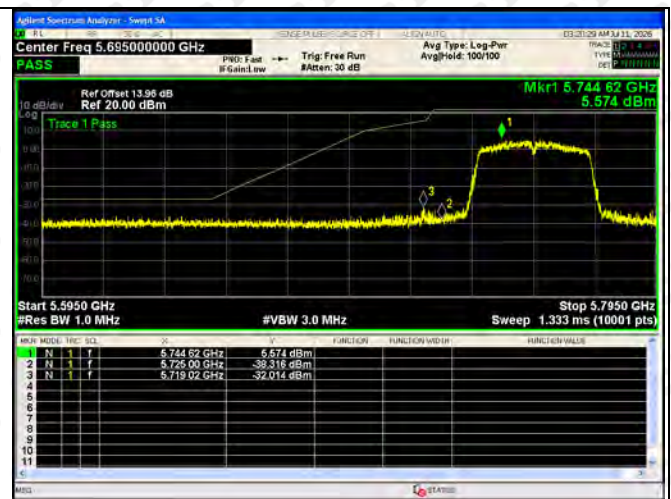
Following shows an offset computation example in 5180MHz with line loss 8.79dB and antenna gain 4.6dB.
Offset(dB) = RF cable loss(dB) + antenna gain factor (dB). = 8.79 + 4.6= 13.39(dB)

MIMO ANT1:
5725MHz ~5850MHz

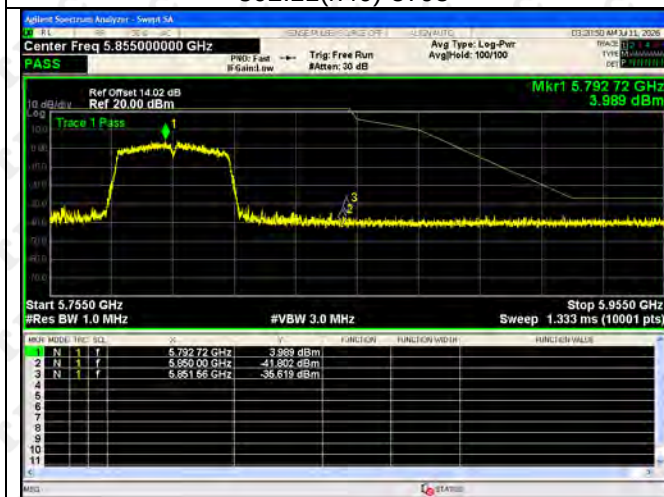




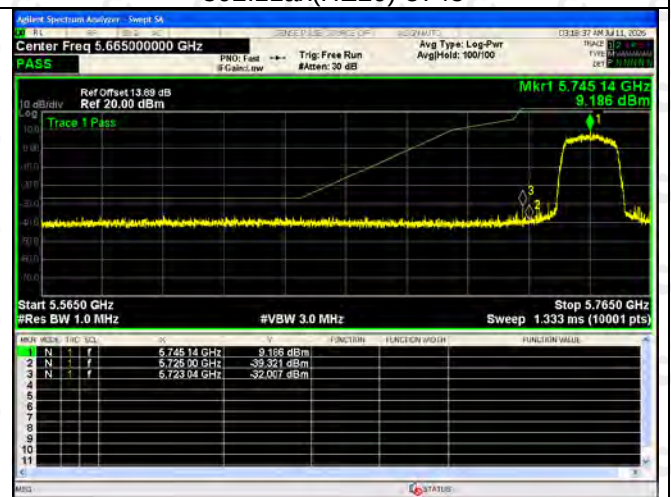
802.11(n40)-5795



802.11ax(HE20)-5745



802.11ax(HE20)-5825



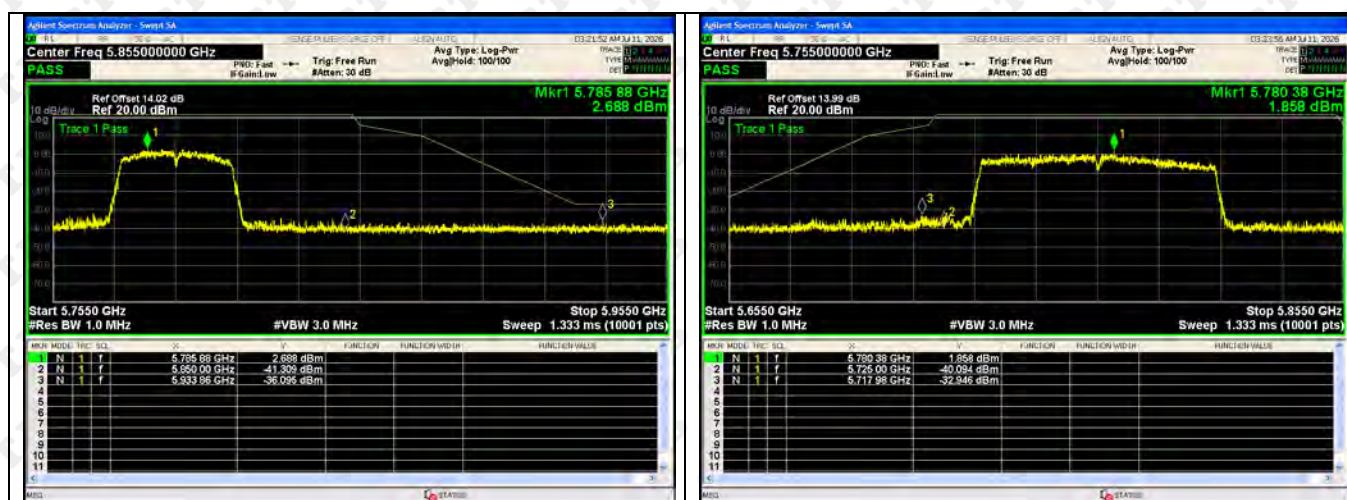
802.11ax(HE40)-5755



802.11ax(HE40)-5795



802.11ax(HE80)-5775



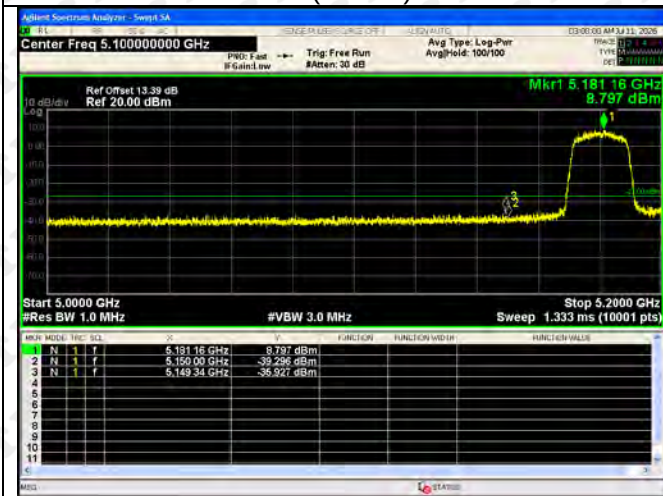
Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

Following shows an offset computation example in 5745MHz with line loss 9.13dB and antenna gain 4.76dB.

Offset(dB) = RF cable loss(dB) + antenna gain factor (dB) = 9.13 + 4.76 = 13.89 (dB)

MIMO ANT2:
5150-5250MHz

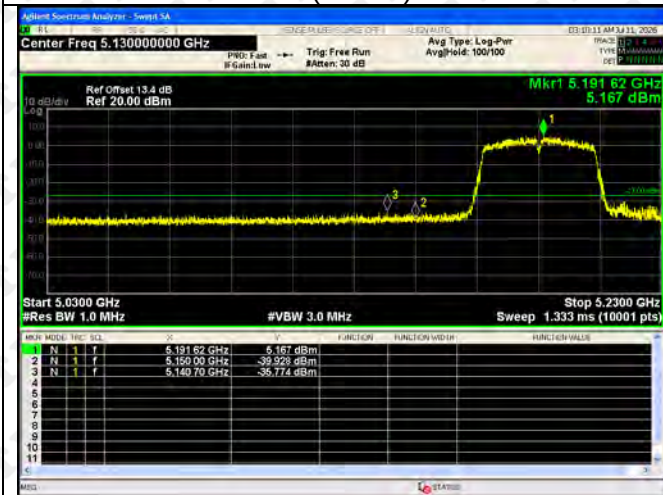
802.11ac(VHT20)-5180



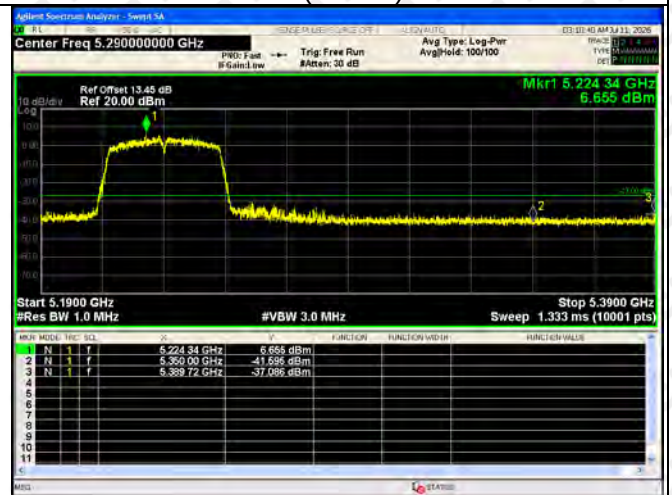
802.11ac(VHT20)-5240



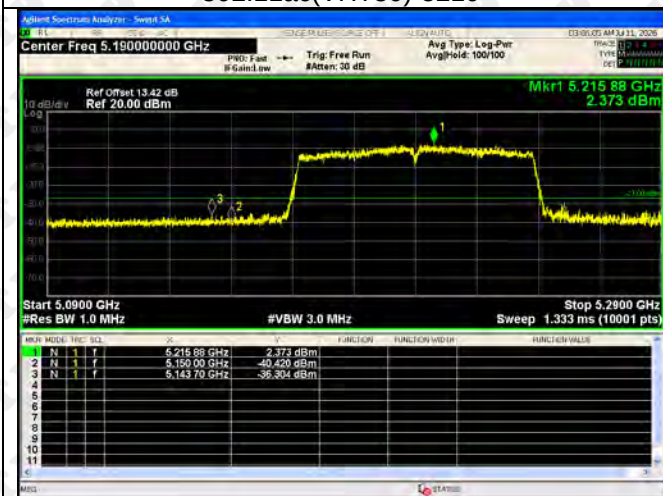
802.11ac(VHT40)-5190



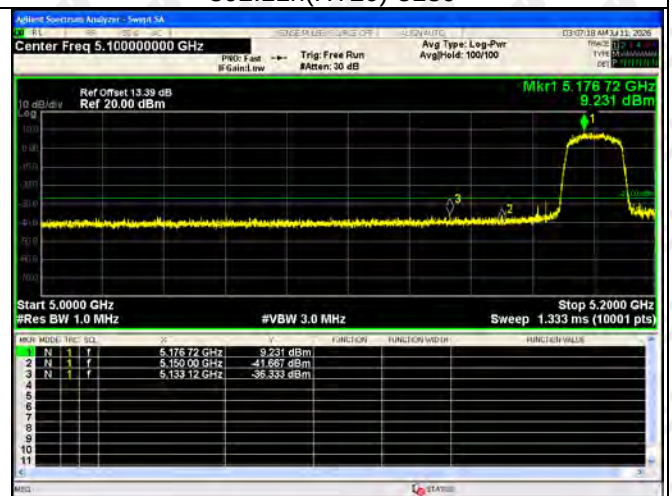
802.11ac(VHT40)-5230



802.11ac(VHT80)-5210

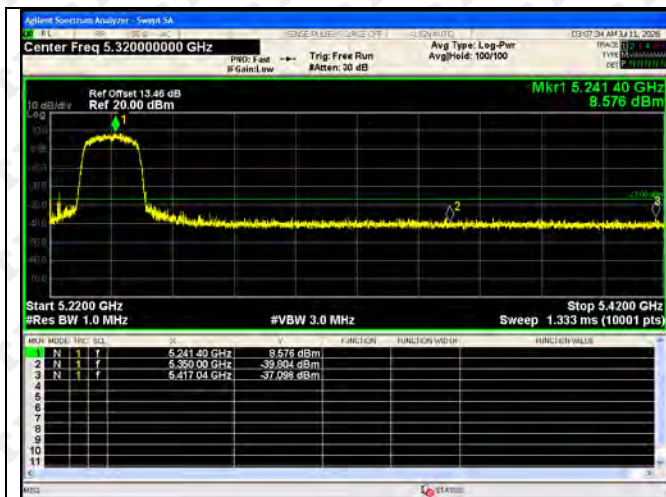


802.11n(HT20)-5180

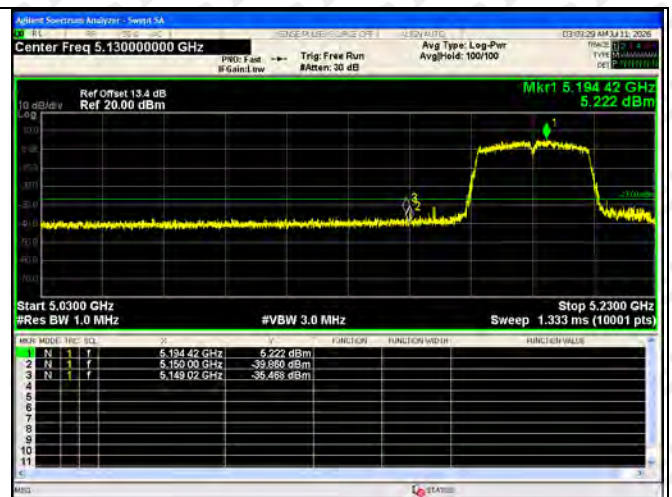


802.11n(HT20)-5240

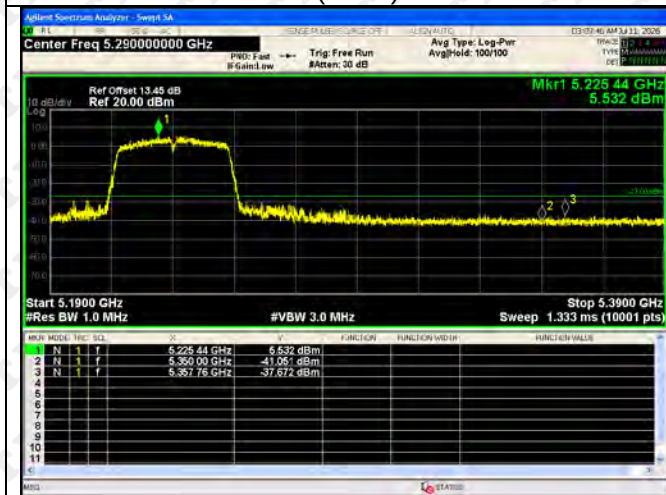
802.11n(HT40)-5190



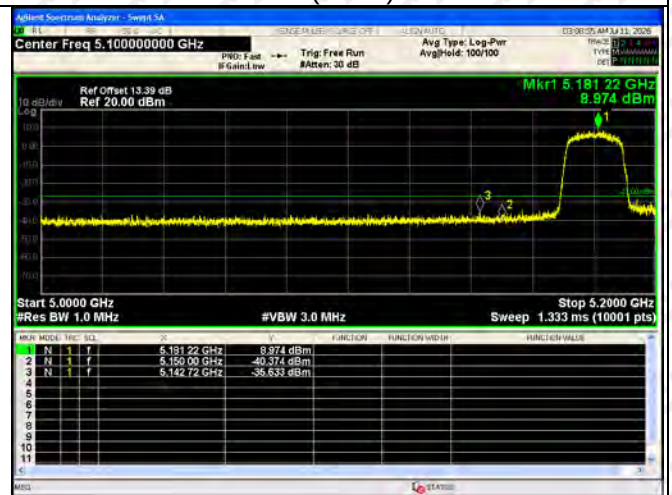
802.11n(HT40)-5230



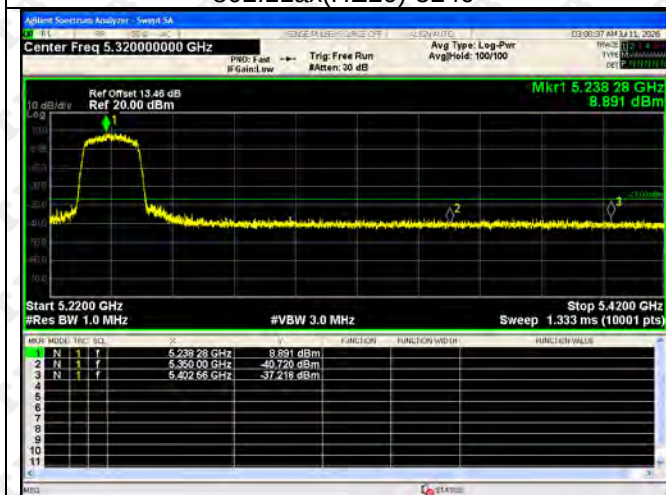
802.11ax(HE20)-5180



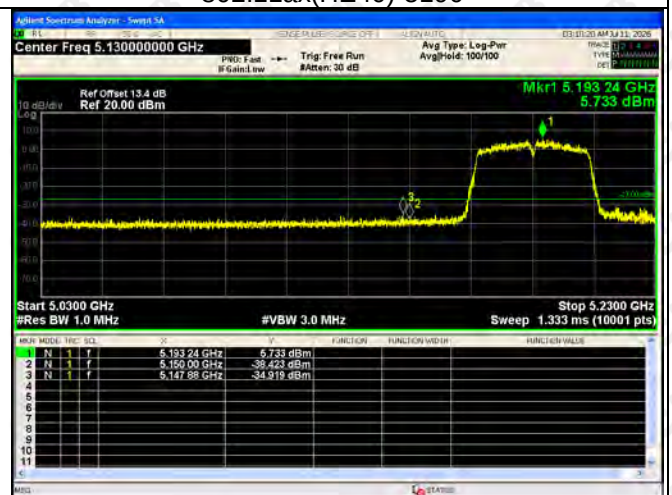
802.11ax(HE20)-5240



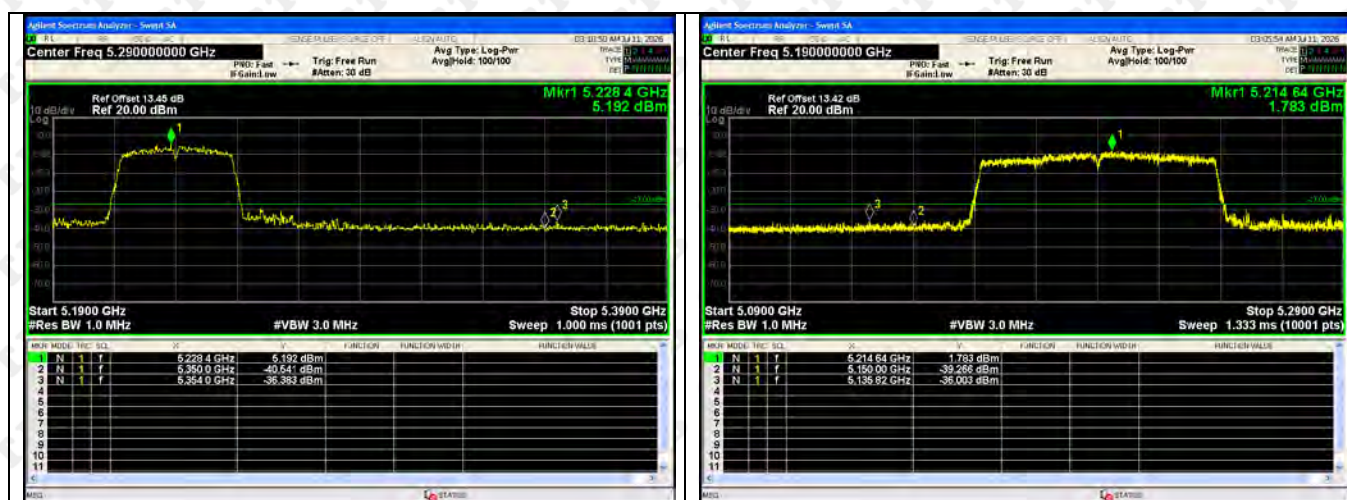
802.11ax(HE40)-5190



802.11ax(HE40)-5230



802.11ax(HE80)-5210

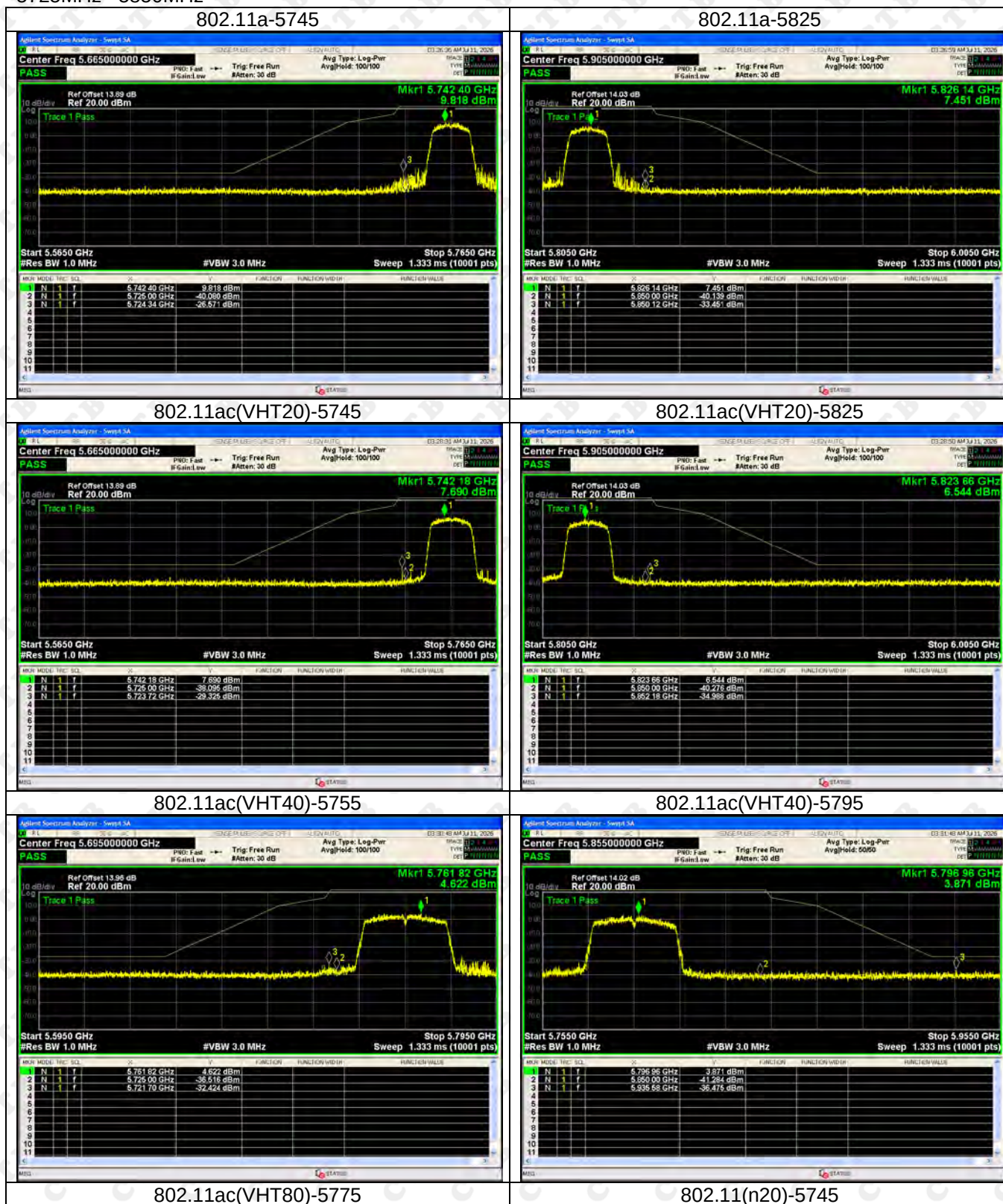


Note: This offset already includes line loss and antenna gain factors, the final result is EIRP

Following shows an offset computation example in 5180MHz with line loss 8.79dB and antenna gain 4.6dB.

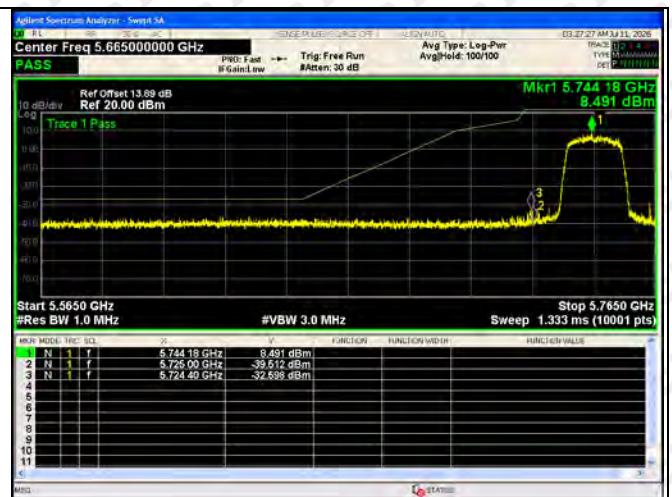
Offset(dB) = RF cable loss(dB) + antenna gain factor (dB). = 8.79 + 4.6= 13.39(dB)

MIMO ANT2:
5725MHz ~5850MHz





802.11(n20)-5825



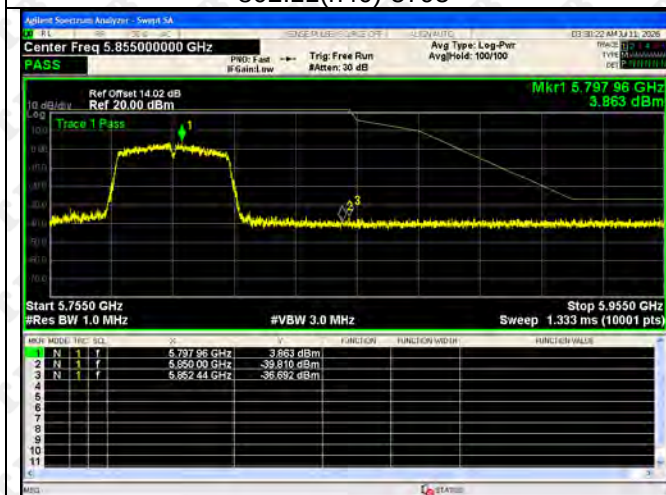
802.11(n40)-5755



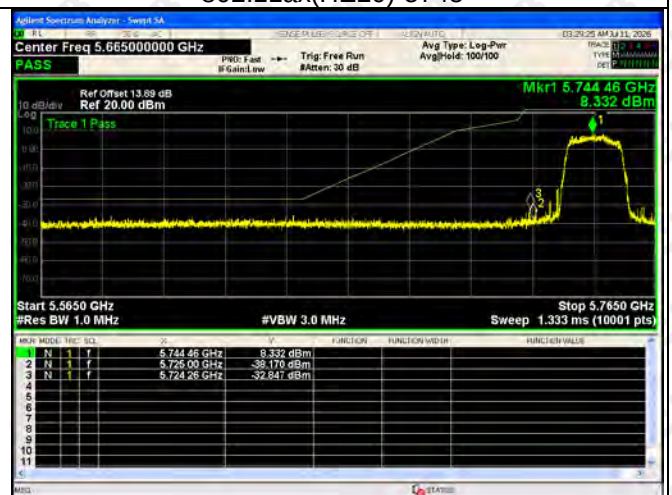
802.11(n40)-5795



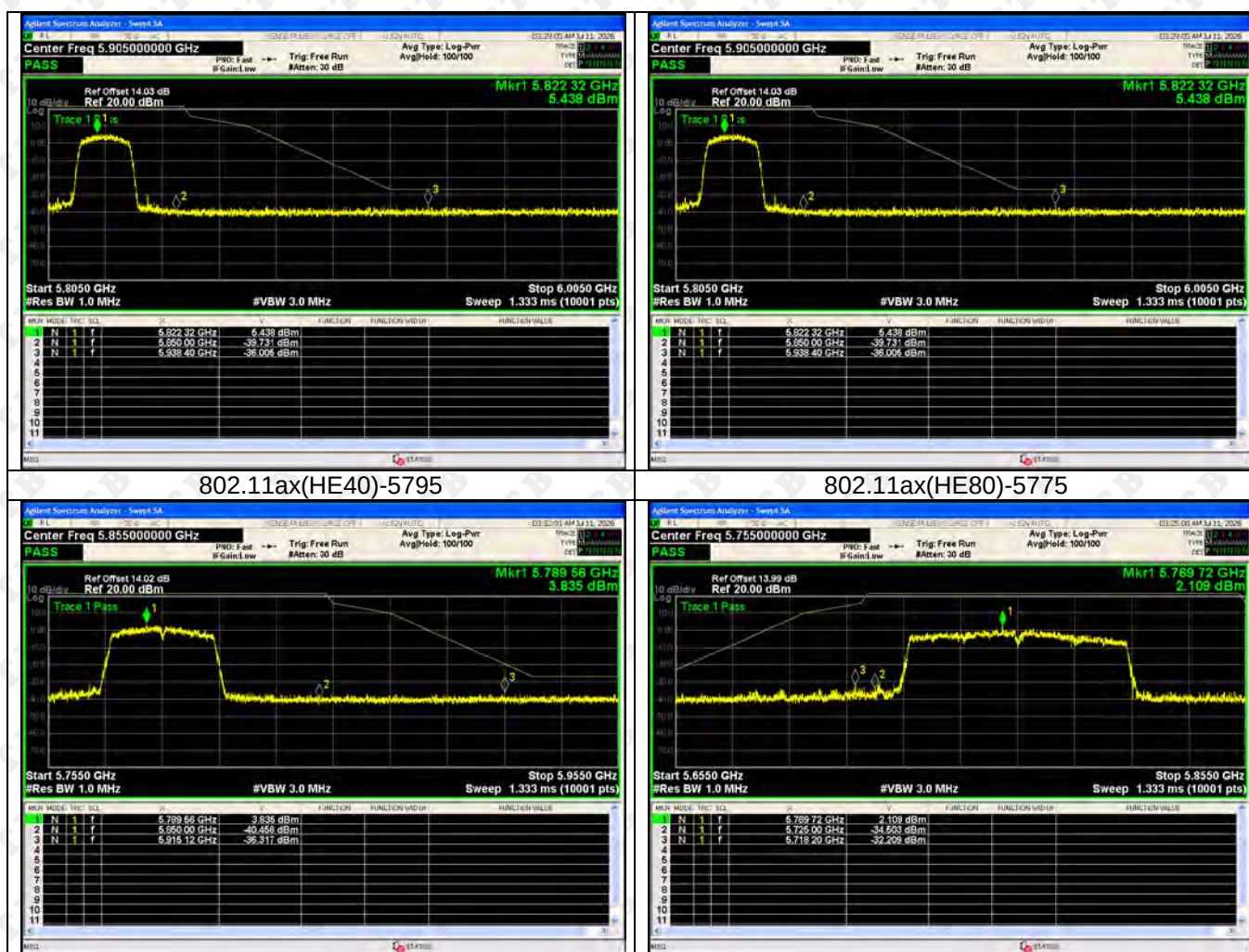
802.11ax(HE20)-5745



802.11ax(HE20)-5825



802.11ax(HE40)-5755



Note: This offset already includes line loss and antenna gain factors, the final result is EIRP
 Following shows an offset computation example in 5745MHz with line loss 9.13dB and antenna gain 4.76dB.

$$\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{antenna gain factor (dB)} = 9.13 + 4.76 = 13.89 \text{ (dB)}$$