

TEST REPORT

Test item description: Carplay
Trademark(s): N/A
Model/Type reference: WY-09, WY-08, WY-05, WY-06, WY-07
Applicant's name: Shenzhen Wuxian Investment Industrial Co., Ltd
Address: 4D32, Block CD, Longsheng Accessories City, Huaqiang North, Futian District, Shenzhen
Manufacturer: Shenzhen Wuxian Investment Industrial Co., Ltd
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Sample Received Date: Jan. 5, 2026
Sample tested Date: Jan. 5, 2026 to Jan. 9, 2026
Issue Date: Jan. 9, 2026
Report No.: CTB26010510603RF02
Test Standards: MIC Notice No.88 Appendix No.45 Item 19-3
Test Results: PASS
Remark: This is 5G WIFI radio test report.

Compiled by:

Reviewed by:

Approved by:

Kai Chen

Martin Feng



Kai Chen

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Bin 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. 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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1.Version

Report No.	Issue Date	Description	Approved
CTB26010510603RF02	Jan. 9, 2026	Original	Valid

2.TEST PROCEDURES AND RESULTS

Test item	Test Requirement	Limit/Severity	Result
Antenna Requirement	Item 19-3 of Article 2 Paragraph 1	Notice 88 Appendix 43,B-1 (1)&(2)	PASS
Frequency Error	Item 19-3 of Article 2 Paragraph 1	+/-20ppm	PASS
Occupied Bandwidth (99%)	Item 19-3 of Article 2 Paragraph 1	W52: Occupied bandwidth: ≤20MHz (20MHz System, OFDM) Occupied bandwidth: ≤40MHz (40MHz System, OFDM) Occupied bandwidth: ≤80MHz (80MHz System, OFDM)	PASS
Adjacent Channel Emitted Power	Item 19-3 of Article 2 Paragraph 1	802.11a/n20/ac20: $F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$ $F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$ 802.11n40/ac40: $F_c \pm 40\text{MHz} \pm 20\text{MHz BW} : -25\text{dBc}$ $F_c \pm 80\text{MHz} \pm 20\text{MHz BW} : -40\text{dBc}$ 802.11ac80: $F_c \pm 80\text{MHz} \pm 40\text{MHz BW} : -25\text{dBc}$	PASS
Antenna Power and Tolerance	Item 19-3 of Article 2 Paragraph 1	(1)10mW/MHz(OFDM, DSSS:20MHz system), (2)5mW/MHz(OFDM:40MHz system), (3)2.5mW/MHz(OFDM:80MHz system), (4)10mW/MHz(except above methods), Tolerance : W52: -80%~+20%, W56:-50%~+50%.	PASS
Unwanted Emission Strength	Item 19-3 of Article 2 Paragraph 1	Attachment 1	PASS
Interference Prevention Function	Item 19-3 of Article 2 Paragraph 1	Article 49	PASS
Carrier sense capability	Item 19-3 of Article 2 Paragraph 1	Article 49	PASS
Construction Protection Confirmation	Item 19-3 of Article 2 Paragraph 1	Article 49	PASS
Transmission Burst Length	Item 19-3 of Article 2 Paragraph 1	8ms or less	PASS
Secondary Radiated Emission Strength	Item 19-3 of Article 2 Paragraph 1	(1)Below 1GHz:4nW/100kHz or less (2)1GHz or higher:20nW/MHz or less	PASS

Dynamic Frequency selection(DFS)	Item 19-3 of Article 2 Paragraph 1	WAS/RLAN devices operating in slave mode (slave device) can be operated in a network controlled by aWAN/RLAN device operating in master mode (master device).	N/A
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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.

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	$\pm 54.3\text{Hz}$
Total RF power, conducted	$\pm 1.0\text{dB}$
Spurious emissions, conducted	$\pm 2.8\text{dB}$
DC and low frequency voltages	$\pm 3\%$
Humidity	$\pm 5.3\%$
Temperature	$\pm 0.59^{\circ}\text{C}$

4.GENERAL INFORMATION

4.1 GENERAL DESCRIPTION OF EUT

Model/Type reference:	WY-09, WY-08, WY-05, WY-06, WY-07
Model Description:	All the model are the same circuit and RF module, only the name and appearance are different. Test sample model: WY-09
Wi-Fi Specification:	IEEE 802.11a/n/ac/ax
Hardware Version:	V1.0
Software Version:	V1.0
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
Rate Output power:	802.11a: 3mW/MHz 802.11n(HT20): 3mW/MHz 802.11n(HT40): 1mW/MHz 802.11ac(VHT20): 3mW/MHz 802.11ac(VHT40): 1mW/MHz 802.11ac(VHT80): 1mW/MHz 802.11ax(HE20): 2mW/MHz 802.11ax(HE40): 2mW/MHz 802.11ax(HE80): 1mW/MHz
Type of Modulation:	OFDM, OFDMA
Antenna installation:	PCB antenna
Antenna Gain:	-2.05dBi
Ratings:	DC 5V by Computer

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

4.2 Channel list

For 802.11a/n/ac/ax(20M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz
For 802.11n/ac/ax(40M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11ac/ax(80M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
42	5210MHz	NA	NA

4.3Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain(dBi)	NOTE
1	N/A	5.2G antenna	Internal antenna	-2.05dBi	N/A

4.4 DESCRIPTION OF TEST MODES

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)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac/ax(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A

4.5 TEST CONDITIONS

Supply Voltage					
	Adapter power V	Module input power V	Rated module power V	Tolerance (%)	
Normal	5	3.3	3.3		
+10%	5.5	3.3	3.3		0
-10%	4.5	3.3	3.3		0
Others					
Temperature (°C)		20-25			
Relative humidity		54 %.			
ATM Pressure:		1010 mbar			
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage.					

4.6 Block diagram showing the configuration of system tested

Transmitting mode



4.7 DESCRIPTION OF SUPPORT UNITS(CONDUCTEDMODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Test item description	Trademark(s)	Model/Type reference	Note
E-1	Carplay	N/A	WY-09, WY-08, WY-05, WY-06, WY-07	EUT

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column.
3. "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

4.8 MEASUREMENT INSTRUMENTS LIST

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2026/6/27
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2026/6/27
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2026/6/27
4	Communication test set	R&S	CMW500	108058	V3.5.80	2026/6/27
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/6/27
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2026/6/27
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2026/6/27
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2026/6/27
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2026/6/29
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2026/6/29
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2026/6/29
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	/	2026/6/27
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2026/6/27
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)	2026/6/27
18	Amplifier	HP	8447E	2945A02747	/	2026/6/27

19	Amplifier	Agilent	8449B	3008A01838	/	2026/6/27
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/6/27
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2026/6/27
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/6/27
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2026/6/27
26	Amplifier	AEROFLEX	Aeroflex	097	/	2026/6/27
27	Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	2026/6/27
28	DC power supply	Agilent	E3640A	MY53050046	/	2026/6/27

Remark: Calibration institution "GRG METROLOGY & TEST GROUP Co., LTD."

Remark: Calibration based on Article 24-2, paragraph 4 of the Radio Act method c.

5. Antenna Requirement

Standard requirement
Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.
EUT Antenna
The best case gain of the antenna is -2.05dBi. Internal antenna
Result: An antenna connector is available; all relevant tests will be carried out conducted.

6. Frequency Error

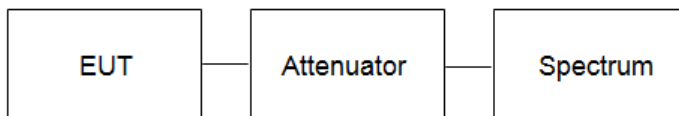
6.1 LIMIT

Item	Limits
Frequency Error	+/-20ppm

6.2 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW=10k, VBW=10 kHz, Span = 1MHz.
- 4 'Maximum Hold'mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

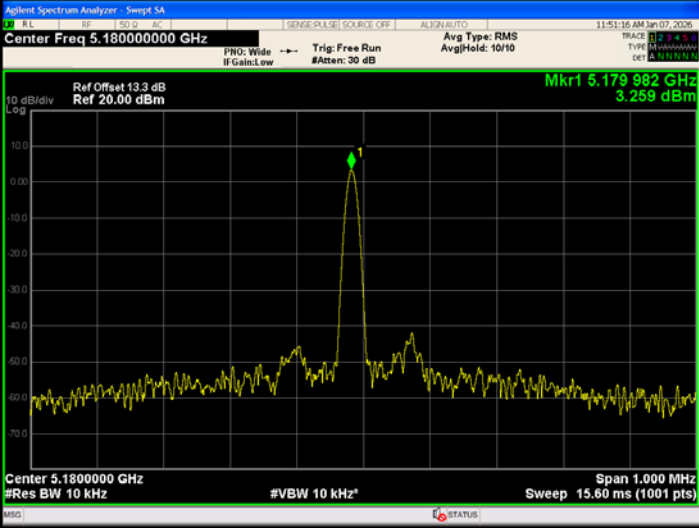
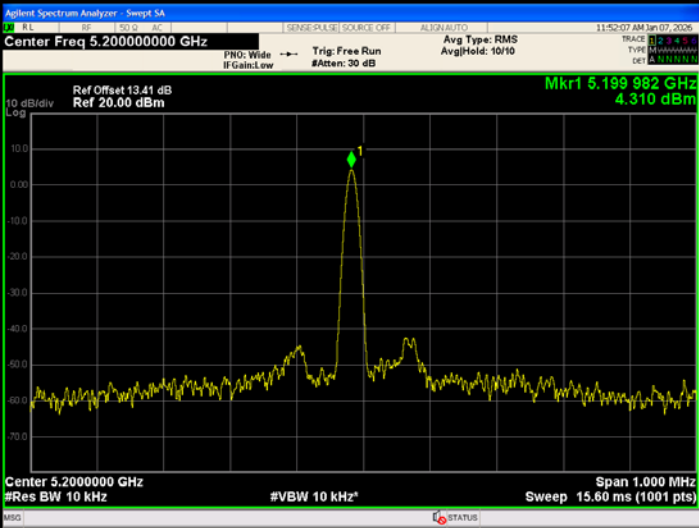
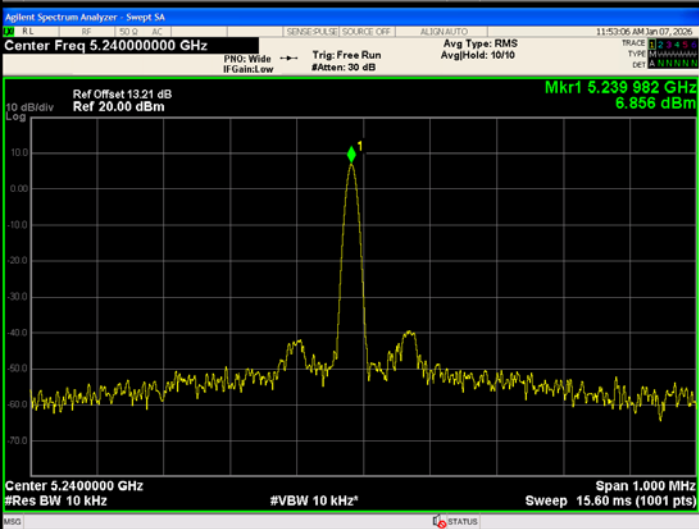
6.3 Test Setup Block Diagram

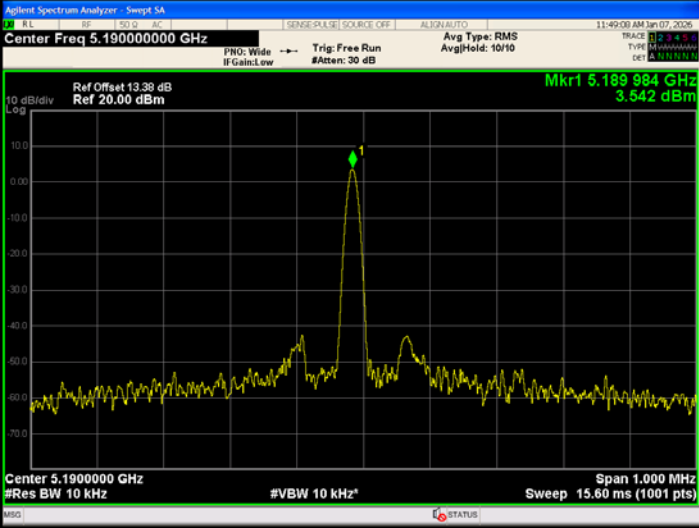
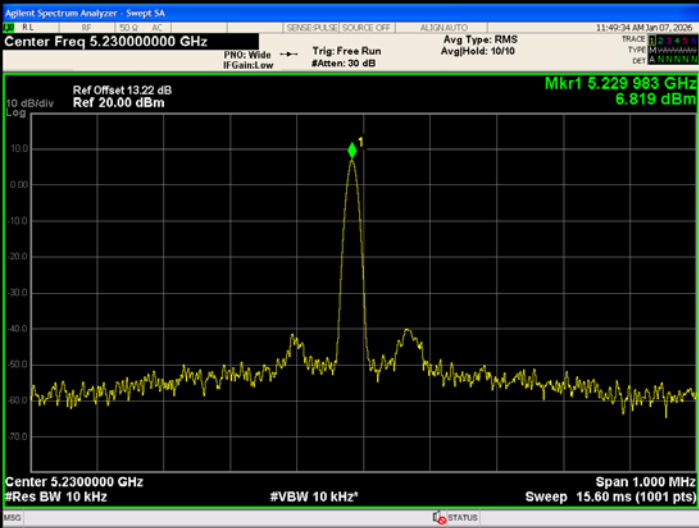
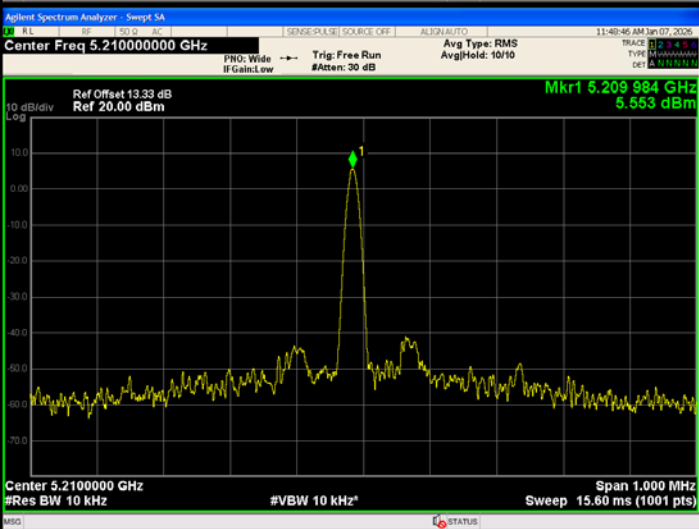


6.4 TEST RESULT

Test condition	Test Frequency	Measured	Tolerance	Test Result	Limit
	MHz	MHz	MHz	ppm	ppm
NVNT W52	5180	5179.982	-0.018	-3.475	+/-20
	5200	5199.982	-0.018	-3.462	+/-20
	5240	5239.982	-0.018	-3.435	+/-20
	5190	5189.984	-0.016	-3.083	+/-20
	5230	5229.983	-0.017	-3.250	+/-20
	5210	5209.984	-0.016	-3.071	+/-20

NVNT- W52

Channel(MHz)	Test graph
5180	 Agilent Spectrum Analyzer - Swept SA Center Freq 5.18000000 GHz Ref Offset 13.3 dB Ref 20.00 dBm Mkr1 5.179 982 GHz 3.259 dBm Center 5.1800000 GHz #Res BW 10 kHz #VBW 10 kHz* Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5200	 Agilent Spectrum Analyzer - Swept SA Center Freq 5.20000000 GHz Ref Offset 13.41 dB Ref 20.00 dBm Mkr1 5.199 982 GHz 4.310 dBm Center 5.2000000 GHz #Res BW 10 kHz #VBW 10 kHz* Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5240	 Agilent Spectrum Analyzer - Swept SA Center Freq 5.24000000 GHz Ref Offset 13.21 dB Ref 20.00 dBm Mkr1 5.239 982 GHz 6.856 dBm Center 5.2400000 GHz #Res BW 10 kHz #VBW 10 kHz* Span 1.000 MHz Sweep 15.60 ms (1001 pts)

Channel(MHz)	Test graph
5190	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.19000000 GHz Ref Offset 13.30 dB Ref 20.00 dBm Mkr1 5.189 984 GHz 3.542 dBm Center 5.1900000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5230	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.23000000 GHz Ref Offset 13.22 dB Ref 20.00 dBm Mkr1 5.229 983 GHz 6.819 dBm Center 5.2300000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)
5210	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.21000000 GHz Ref Offset 13.33 dB Ref 20.00 dBm Mkr1 5.209 984 GHz 5.553 dBm Center 5.2100000 GHz #Res BW 10 kHz #VBW 10 kHz Span 1.000 MHz Sweep 15.60 ms (1001 pts)

7. Occupied Bandwidth (99%)

7.1 LIMIT

W52:

Occupied bandwidth: $\leq 18\text{MHz}$ (20MHz System, DSSS)

Occupied bandwidth: $\leq 20\text{MHz}$ (20MHz System, OFDM)

Occupied bandwidth: $\leq 40\text{MHz}$ (40MHz System, OFDM)

Occupied bandwidth: $\leq 80\text{MHz}$ (80MHz System, OFDM)

7.2 TEST PROCEDURE

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resoluble bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode: Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

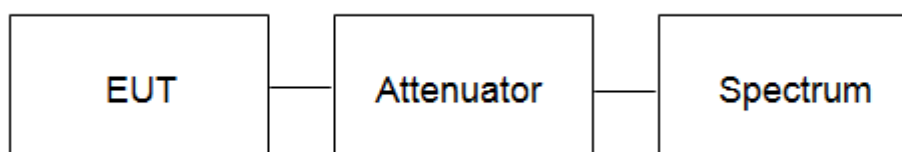
(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.

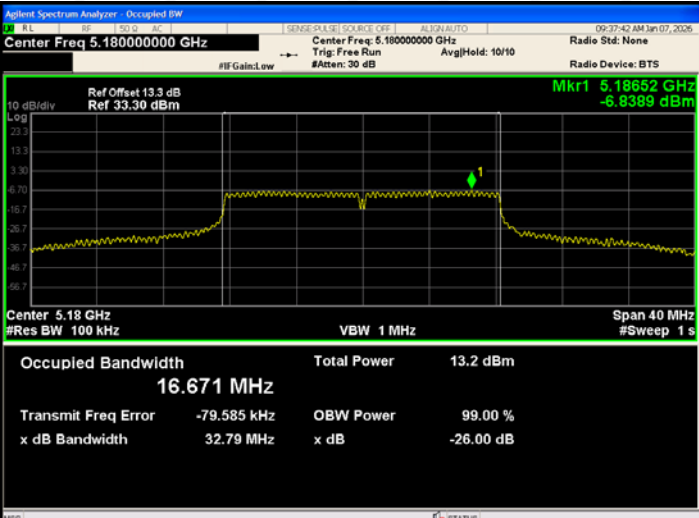
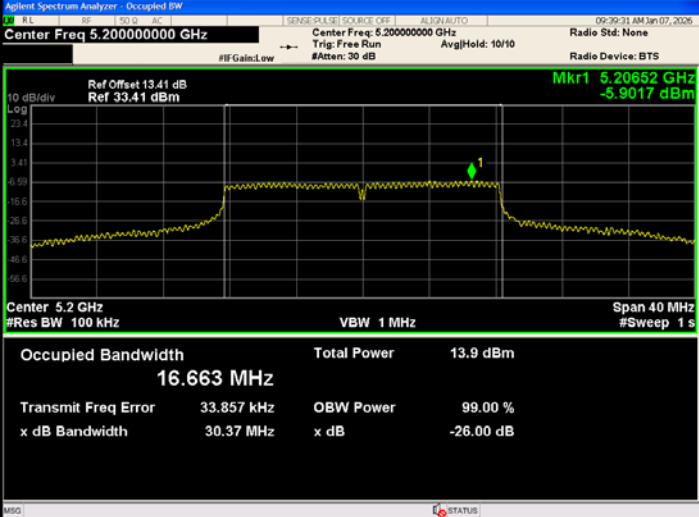
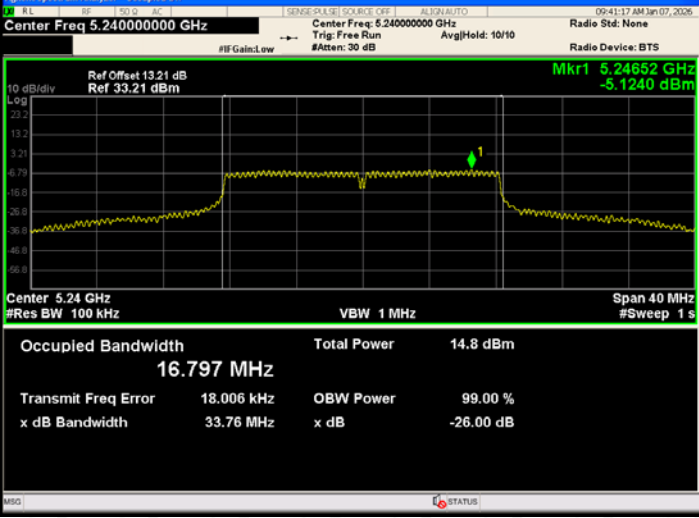
7.3 TEST SETUP BLOCK DIAGRAM

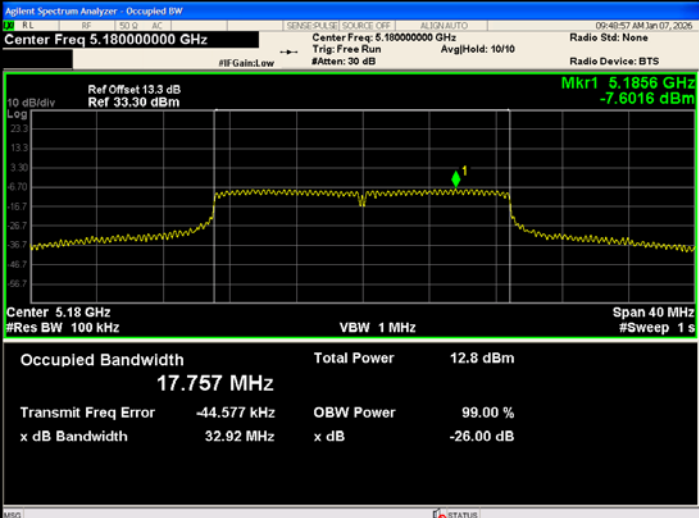
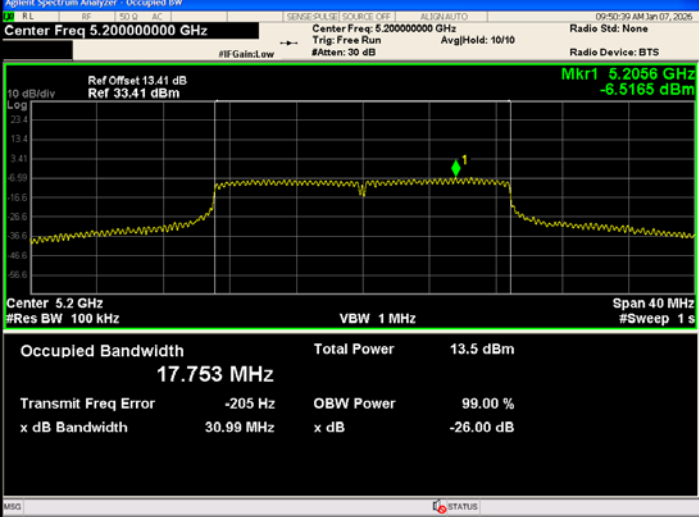
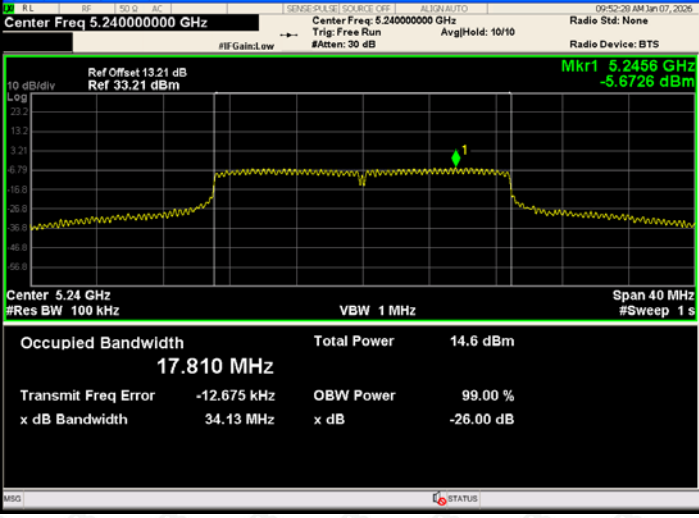


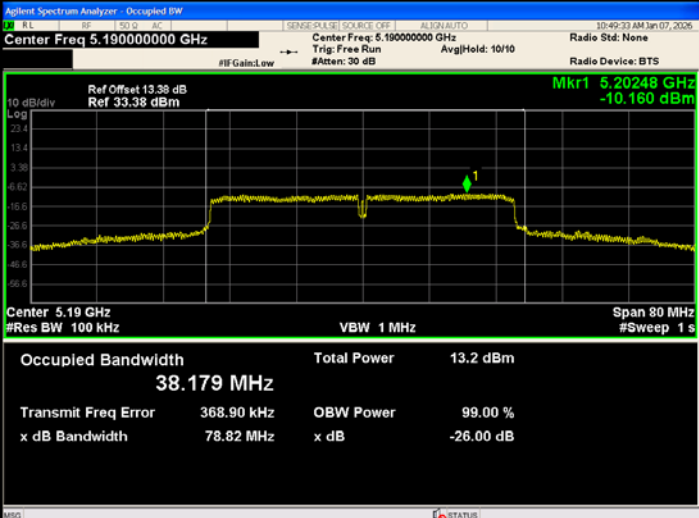
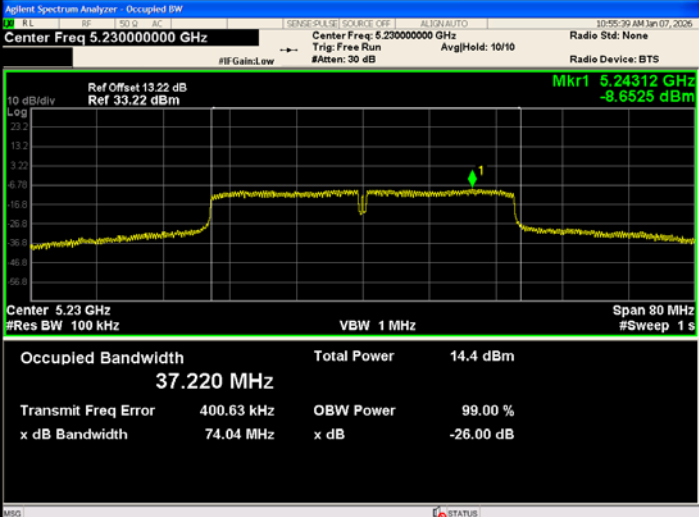
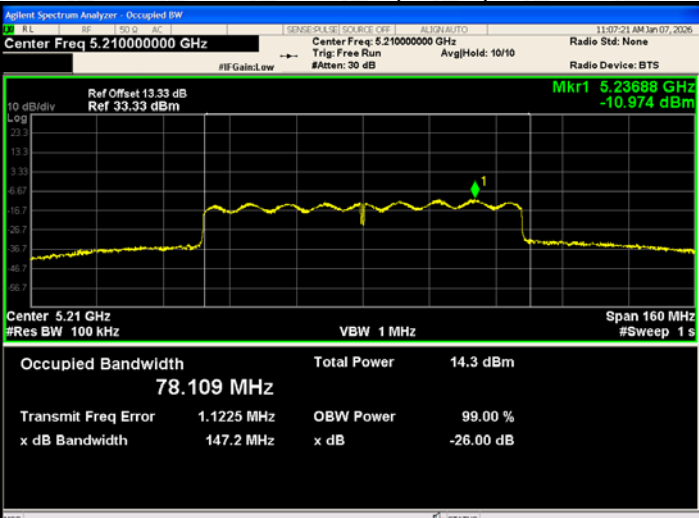
7.4 TEST RESULT

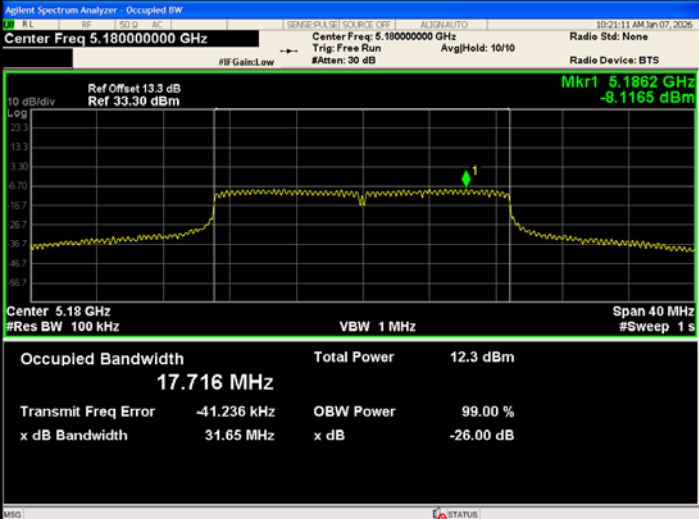
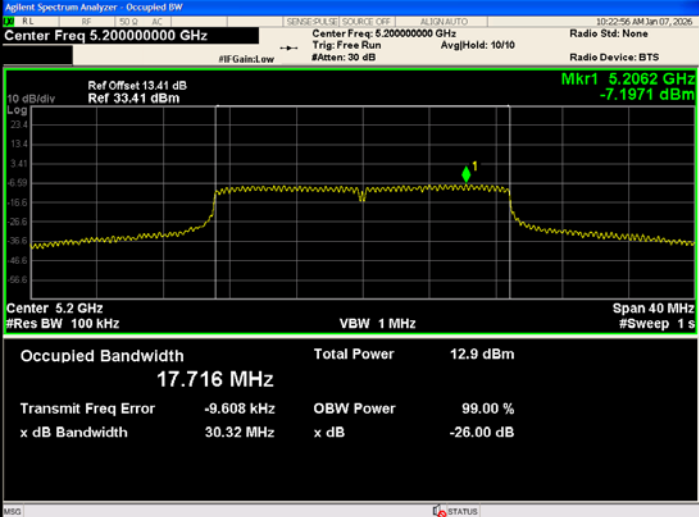
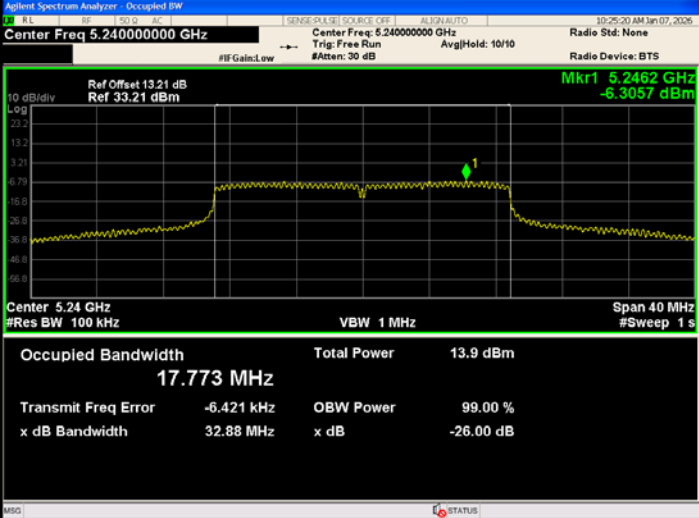
W52

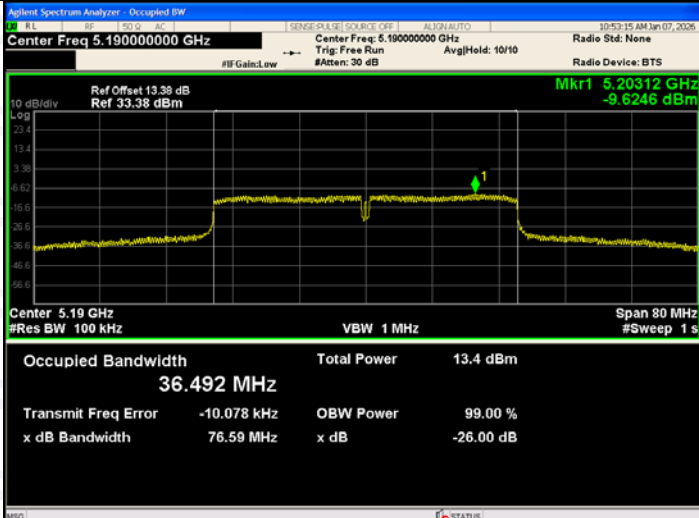
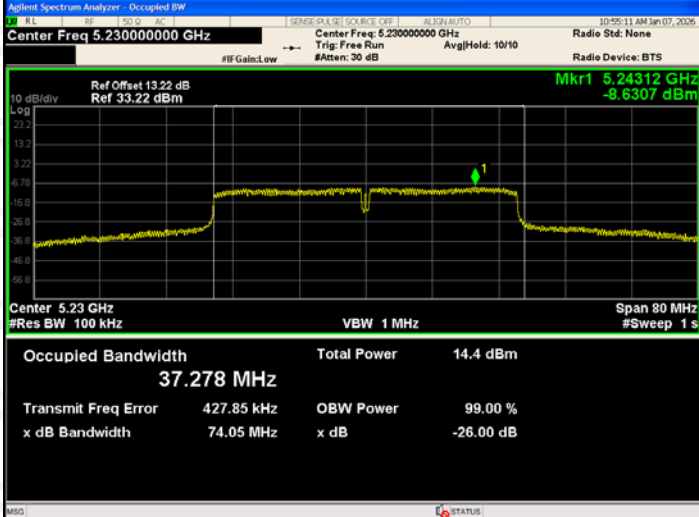
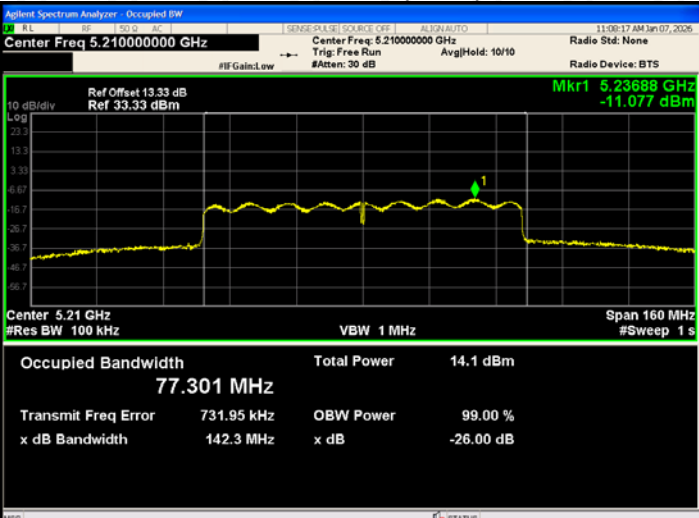
Normal Voltage			
Mode	Channel (MHz)	Occupy Bandwidth (MHz)	Limit (MHz)
802.11a20	LCH	16.671	≤18
	MCH	16.663	
	HCH	16.797	
802.11ac(VHT20)	LCH	17.757	≤20
	MCH	17.753	
	HCH	17.810	
802.11ac(VHT40)	LCH	38.179	≤40
	MCH	/	
	HCH	37.220	
802.11ac(VHT80)	LCH	/	≤80
	MCH	78.109	
	HCH	/	
802.11ax(HE20)	LCH	17.716	≤20
	MCH	17.716	
	HCH	17.773	
802.11ax(HE40)	LCH	36.492	≤40
	MCH	/	
	HCH	37.278	
802.11ax(HE80)	LCH	/	≤80
	MCH	77.301	
	HCH	/	
802.11n(HT20)	LCH	17.739	≤20
	MCH	17.748	
	HCH	17.801	
802.11n(HT40)	LCH	36.379	≤40
	MCH	/	
	HCH	36.406	
Result	Pass		

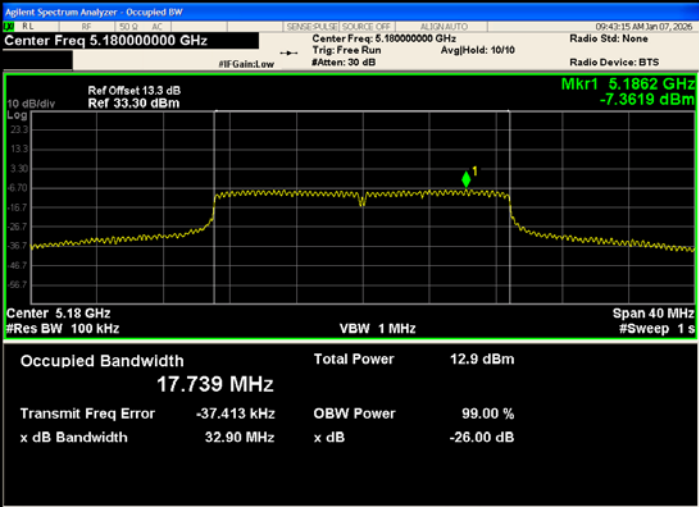
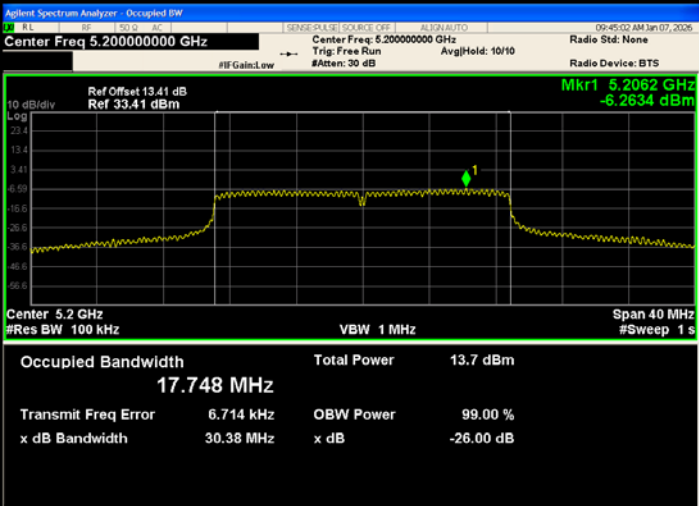
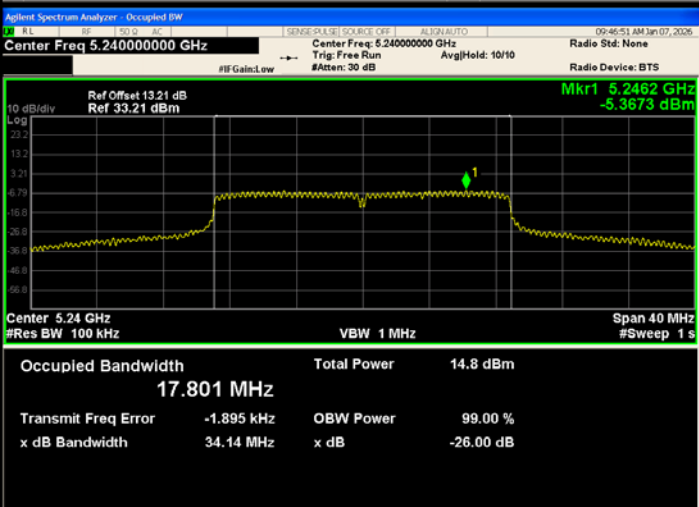
Channel(MHz)	W52:802.11a
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 13.3 dB Ref 33.30 dBm Mkr1 5.18652 GHz -6.8389 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.671 MHz Total Power 13.2 dBm Transmit Freq Error -79.585 kHz OBW Power 99.00 % x dB Bandwidth 32.79 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 13.41 dB Ref 33.41 dBm Mkr1 5.20652 GHz -5.9017 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.663 MHz Total Power 13.9 dBm Transmit Freq Error 33.857 kHz OBW Power 99.00 % x dB Bandwidth 30.37 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 13.21 dB Ref 33.21 dBm Mkr1 5.24652 GHz -5.1240 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 16.797 MHz Total Power 14.8 dBm Transmit Freq Error 18.006 kHz OBW Power 99.00 % x dB Bandwidth 33.76 MHz x dB -26.00 dB

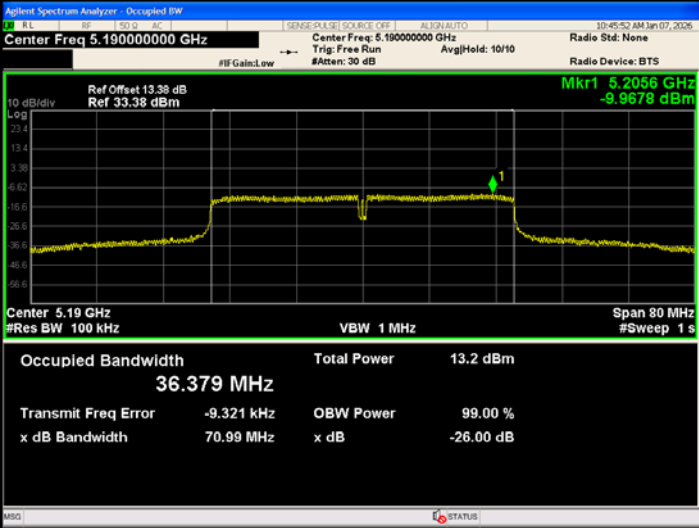
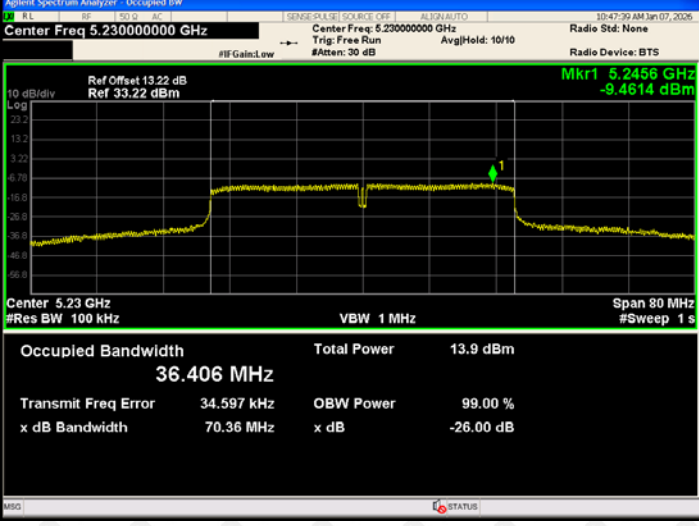
Channel(MHz)	W52:802.11ac(HT20)
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 13.3 dB Ref 33.30 dBm Mkr1 5.1856 GHz -7.6016 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.757 MHz Total Power 12.8 dBm Transmit Freq Error -44.577 kHz OBW Power 99.00 % x dB Bandwidth 32.92 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 13.41 dB Ref 33.41 dBm Mkr1 5.2056 GHz -6.5165 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.753 MHz Total Power 13.5 dBm Transmit Freq Error -205 Hz OBW Power 99.00 % x dB Bandwidth 30.99 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 13.21 dB Ref 33.21 dBm Mkr1 5.2456 GHz -6.5726 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.810 MHz Total Power 14.6 dBm Transmit Freq Error -12.675 kHz OBW Power 99.00 % x dB Bandwidth 34.13 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ac(VHT40)
5190	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.190000000 GHz Ref Offset 13.38 dB Ref 33.38 dBm Mkr1 5.20248 GHz -10.160 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 38.179 MHz Total Power 13.2 dBm Transmit Freq Error 368.90 kHz OBW Power 99.00 % x dB Bandwidth 78.82 MHz x dB -26.00 dB
5230	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.230000000 GHz Ref Offset 13.22 dB Ref 33.22 dBm Mkr1 5.24312 GHz -8.6525 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 37.220 MHz Total Power 14.4 dBm Transmit Freq Error 400.63 kHz OBW Power 99.00 % x dB Bandwidth 74.04 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11ac (VHT80)
5210	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.210000000 GHz Ref Offset 13.33 dB Ref 33.33 dBm Mkr1 5.23688 GHz -10.974 dBm Center 5.21 GHz #Res BW 100 kHz VBW 1 MHz Span 160 MHz #Sweep 1 s Occupied Bandwidth 78.109 MHz Total Power 14.3 dBm Transmit Freq Error 1.1225 MHz OBW Power 99.00 % x dB Bandwidth 147.2 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ax(HE20)
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13.3 dB Ref 33.30 dBm Mkr1 5.1862 GHz -8.1165 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.716 MHz Total Power 12.3 dBm Transmit Freq Error -41.236 kHz OBW Power 99.00 % x dB Bandwidth 31.65 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13.41 dB Ref 33.41 dBm Mkr1 5.2062 GHz -7.1971 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.716 MHz Total Power 12.9 dBm Transmit Freq Error -9.608 kHz OBW Power 99.00 % x dB Bandwidth 30.32 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset 13.21 dB Ref 33.21 dBm Mkr1 5.2462 GHz -6.3057 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.773 MHz Total Power 13.9 dBm Transmit Freq Error -6.421 kHz OBW Power 99.00 % x dB Bandwidth 32.88 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11ax (HE40)
5190	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.190000000 GHz Ref Offset 13.38 dB Ref 33.38 dBm Mkr1 5.20312 GHz -9.6246 dBm Center 5.19 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 36.492 MHz Total Power 13.4 dBm Transmit Freq Error -10.078 kHz OBW Power 99.00 % x dB Bandwidth 76.59 MHz x dB -26.00 dB
5230	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.230000000 GHz Ref Offset 13.22 dB Ref 33.22 dBm Mkr1 5.24312 GHz -8.6307 dBm Center 5.23 GHz #Res BW 100 kHz VBW 1 MHz Span 80 MHz #Sweep 1 s Occupied Bandwidth 37.278 MHz Total Power 14.4 dBm Transmit Freq Error 427.85 kHz OBW Power 99.00 % x dB Bandwidth 74.05 MHz x dB -26.00 dB
Channel(MHz)	W52:802.11ax (HE80)
5210	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.210000000 GHz Ref Offset 13.33 dB Ref 33.33 dBm Mkr1 5.23688 GHz -11.077 dBm Center 5.21 GHz #Res BW 100 kHz VBW 1 MHz Span 160 MHz #Sweep 1 s Occupied Bandwidth 77.301 MHz Total Power 14.1 dBm Transmit Freq Error 731.95 kHz OBW Power 99.00 % x dB Bandwidth 142.3 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11n(HT20)
5180	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.180000000 GHz Ref Offset 13.3 dB Ref 33.30 dBm Mkr1 5.1862 GHz -7.3619 dBm Center 5.18 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.739 MHz Total Power 12.9 dBm Transmit Freq Error -37.413 kHz OBW Power 99.00 % x dB Bandwidth 32.90 MHz x dB -26.00 dB
5200	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.200000000 GHz Ref Offset 13.41 dB Ref 33.41 dBm Mkr1 5.2062 GHz -6.2634 dBm Center 5.2 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.748 MHz Total Power 13.7 dBm Transmit Freq Error 6.714 kHz OBW Power 99.00 % x dB Bandwidth 30.38 MHz x dB -26.00 dB
5240	 Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 13.21 dB Ref 33.21 dBm Mkr1 5.2462 GHz -5.3673 dBm Center 5.24 GHz #Res BW 100 kHz VBW 1 MHz Span 40 MHz #Sweep 1 s Occupied Bandwidth 17.801 MHz Total Power 14.8 dBm Transmit Freq Error -1.895 kHz OBW Power 99.00 % x dB Bandwidth 34.14 MHz x dB -26.00 dB

Channel(MHz)	W52:802.11n(HT40)
5190	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.190000000 GHz Ref Offset: 13.38 dB Ref: 33.38 dBm Mkr1: 5.2056 GHz -9.9678 dBm Center: 5.19 GHz #Res BW: 100 kHz VBW: 1 MHz Span: 80 MHz #Sweep: 1 s Occupied Bandwidth: 36.379 MHz Total Power: 13.2 dBm Transmit Freq Error: -9.321 kHz OBW Power: 99.00 % x dB Bandwidth: 70.99 MHz x dB: -26.00 dB
5230	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.230000000 GHz Ref Offset: 13.22 dB Ref: 33.22 dBm Mkr1: 5.2456 GHz -9.4614 dBm Center: 5.23 GHz #Res BW: 100 kHz VBW: 1 MHz Span: 80 MHz #Sweep: 1 s Occupied Bandwidth: 36.406 MHz Total Power: 13.9 dBm Transmit Freq Error: 34.597 kHz OBW Power: 99.00 % x dB Bandwidth: 70.36 MHz x dB: -26.00 dB

8. Adjacent Channel Emitted Power

8.1 LIMIT

W52

For system $OBW < 20\text{MHz}$

$F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$

$F_c \pm 40\text{MHz} \pm 10\text{MHz BW} : -40\text{dBc}$

For system $OBW \leq 20\text{MHz}$

$F_c \pm 20\text{MHz} \pm 10\text{MHz BW} : -25\text{dBc}$

$F_c \pm 40\text{MHz} \pm 10\text{MHz BW} : -40\text{dBc}$

For system $OBW \leq 40\text{MHz}$

$F_c \pm 40\text{MHz} \pm 20\text{MHz BW} : -25\text{dBc}$

$F_c \pm 80\text{MHz} \pm 20\text{MHz BW} : -40\text{dBc}$

For system $OBW \leq 80\text{MHz}$

$F_c \pm 80\text{MHz} \pm 40\text{MHz BW} : -25\text{dBc}$

For system $OBW \leq 80\text{MHz} + 80\text{MHz}$ (Not adjacent band)

$F_c \pm 80\text{MHz} \pm 40\text{MHz BW} : -25\text{dBc}$

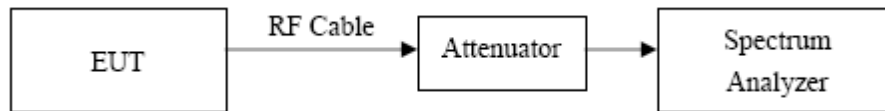
For system $OBW \leq 160\text{MHz}$

N/A

8.2 TEST PROCEDURE

- (1) A spectrum In case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for sample hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to ref. the limits , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.

8.3 TEST SETUP Block Diagram



8.4 TEST RESULT

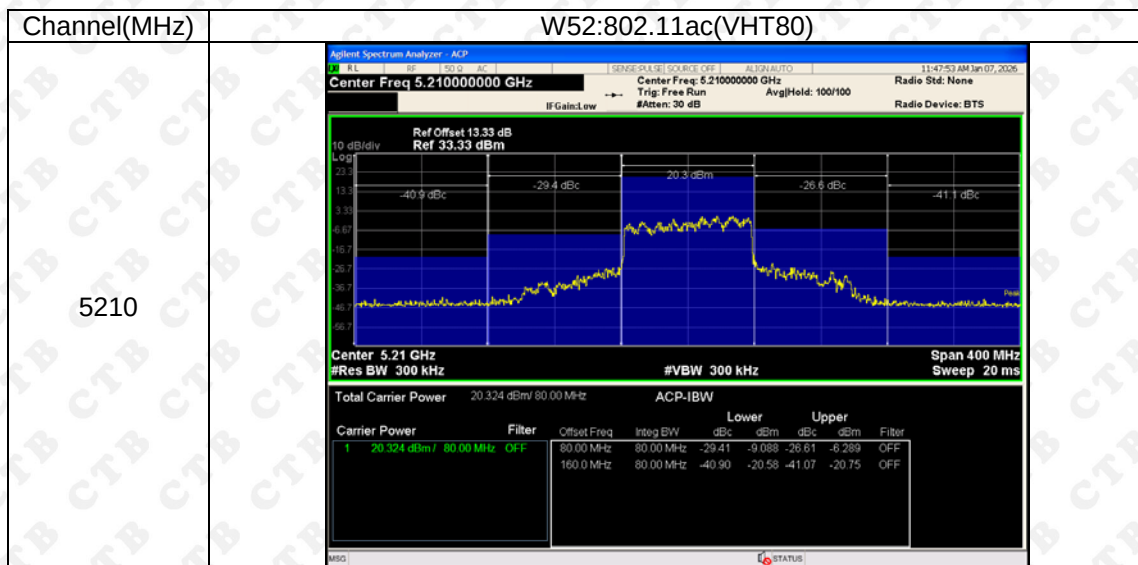
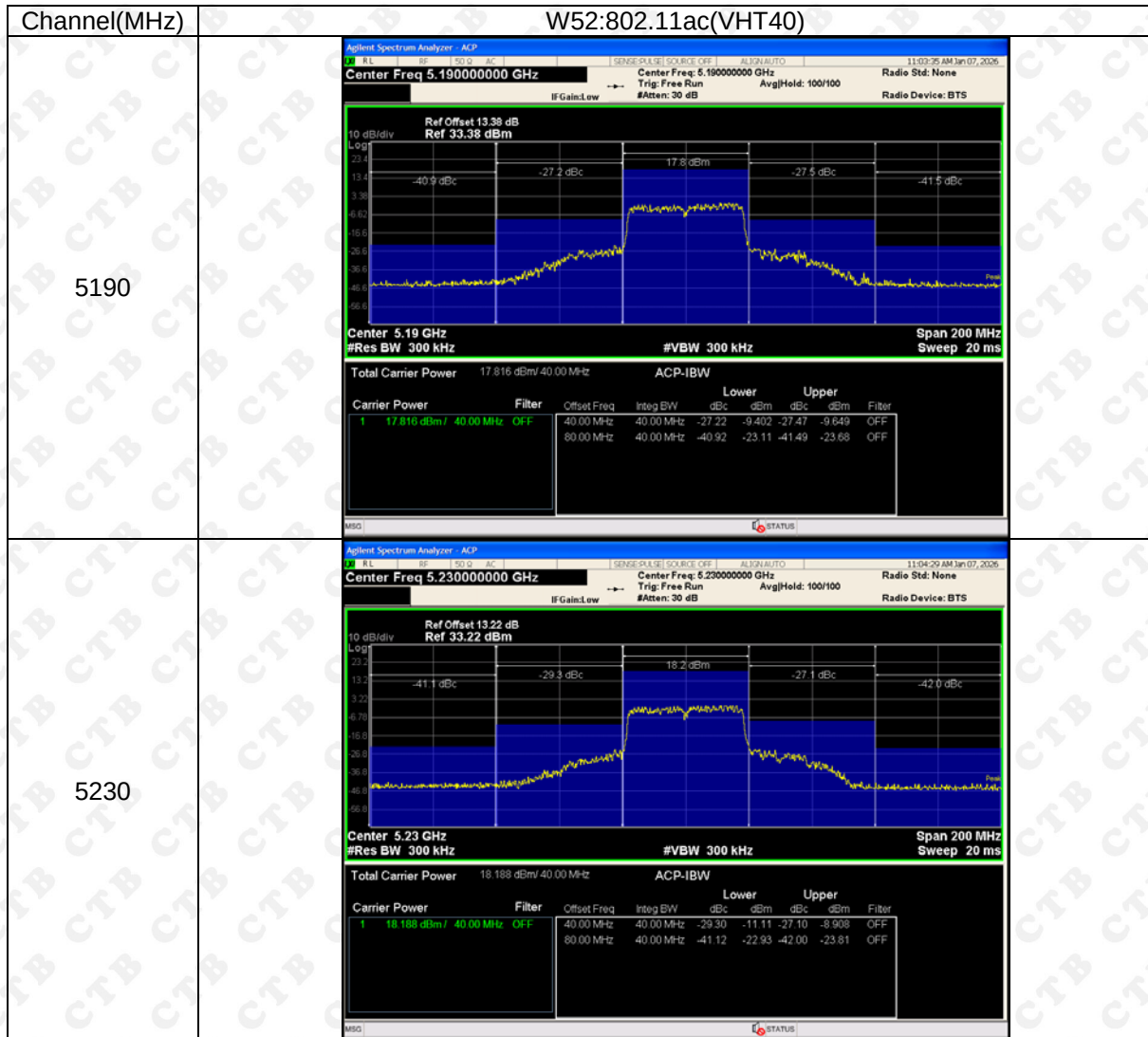
W52:

Normal Voltage						
Mode	detuning (MHz)		E.I.R.P (dBm/MHz)			Limit (dBm/MHz)
			LCH	MCH	HCH	
802.11a	20MHz	Lower	-29.13	-31.44	-31.29	-25dBc/20MHz
		Upper	-30.61	-30.63	-31.07	
	40MHz	Lower	-43.3	-42.87	-43.6	-40dBc/40MHz
		Upper	-44.1	-43.06	-44.39	
802.11ac(VHT20)	20MHz	Lower	-27.44	-29.49	-28.65	-25dBc/20MHz
		Upper	-28.72	-28.63	-28.44	
	40MHz	Lower	-43.73	-42.88	-44.08	-40dBc/40MHz
		Upper	-44.44	-42.35	-44.74	
802.11ac(VHT40)	40MHz	Lower	-27.22	/	-29.3	-25dBc/40MHz
		Upper	-27.47	/	-27.1	
	80MHz	Lower	-40.92	/	-41.12	-40dBc/80MHz
		Upper	-41.49	/	-42	
802.11ac(VHT80)	80MHz	Lower	/	-29.41	/	-25dBc/80MHz
		Upper	/	-26.61	/	
	160MHz	Lower	/	-40.9	/	-25dBc/80MHz
		Upper	/	-41.07	/	
802.11n(HT20)	20MHz	Lower	-28.67	-30.97	-30.35	-25dBc/20MHz
		Upper	-30.15	-30.21	-29.97	
	40MHz	Lower	-43.54	-42.81	-44.02	-40dBc/40MHz
		Upper	-44.17	-42.24	-44.72	
802.11n(HT40)	40MHz	Lower	-26.67	/	-29.46	-25dBc/40MHz
		Upper	-26.85	/	-27.15	
	80MHz	Lower	-41.39	/	-40.96	-40dBc/80MHz
		Upper	-41.89	/	-42.12	
802.11ax(HE20)	20MHz	Lower	-27.72	-29.96	-29.07	-25dBc/20MHz
		Upper	-29.82	-29.76	-29.43	
	40MHz	Lower	-43.63	-42.79	-44.17	-40dBc/40MHz
		Upper	-44.37	-42.46	-44.84	
802.11ax(HE40)	40MHz	Lower	-27.25	/	-29.43	-25dBc/40MHz

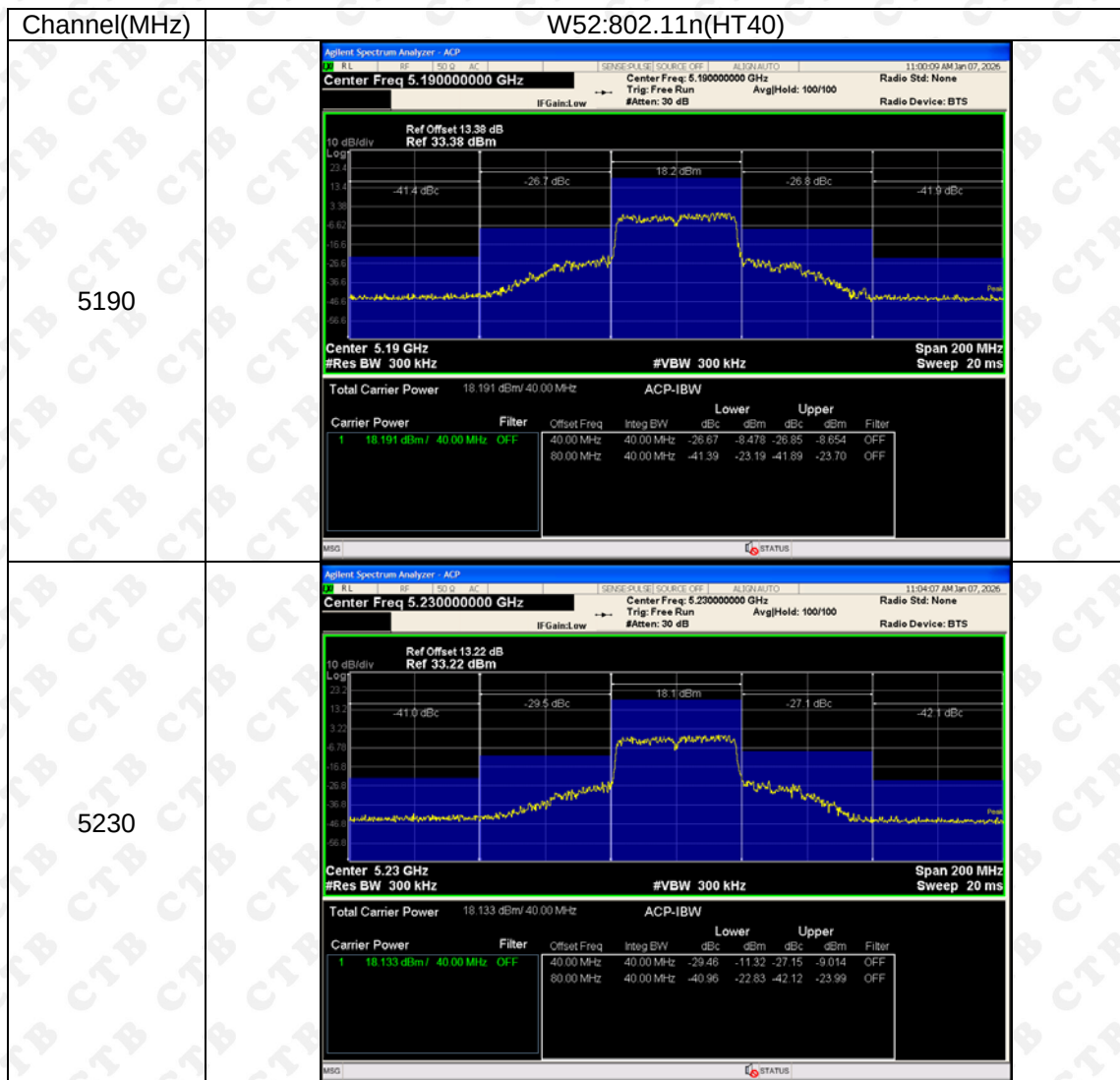
		Upper	-27.48	/	-27.12	-40dBc/80MHz
	80MHz	Lower	-41.12	/	-40.92	
		Upper	-41.54	/	-41.99	
802.11ax(HE80)	80MHz	Lower	/	-29.2	/	-25dBc/80MHz
		Upper	/	-26.39	/	
	160MHz	Lower	/	-40.84	/	-25dBc/80MHz
		Upper	/	-40.92	/	
	Result	Pass				

Channel(MHz)	W52:802.11a																																			
5180	Agilent Spectrum Analyzer - ACP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.3 dB Ref 33.30 dBm -43.3 dBc -29.1 dBc 17.2 dBm -30.6 dBc -44.1 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.154 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr><tr><th></th><th></th><th></th><th></th><th>dBc</th><th>dBm</th><th></th></tr></thead><tbody><tr><td>1</td><td>17.154 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-29.13</td><td>-11.98</td><td>-30.61</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-43.30</td><td>-26.14</td><td>-44.10</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>-26.95</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter					dBc	dBm		1	17.154 dBm/ 20.00 MHz	OFF	20.00 MHz	-29.13	-11.98	-30.61			40.00 MHz	20.00 MHz	-43.30	-26.14	-44.10						-26.95	OFF
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																														
				dBc	dBm																															
1	17.154 dBm/ 20.00 MHz	OFF	20.00 MHz	-29.13	-11.98	-30.61																														
		40.00 MHz	20.00 MHz	-43.30	-26.14	-44.10																														
					-26.95	OFF																														
5200	Agilent Spectrum Analyzer - ACP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.41 dB Ref 33.41 dBm -42.9 dBc -31.4 dBc 17.2 dBm -30.6 dBc -43.1 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.226 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr><tr><th></th><th></th><th></th><th></th><th>dBc</th><th>dBm</th><th></th></tr></thead><tbody><tr><td>1</td><td>17.226 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-31.44</td><td>-14.21</td><td>-30.63</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-42.87</td><td>-25.64</td><td>-43.06</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>-25.84</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter					dBc	dBm		1	17.226 dBm/ 20.00 MHz	OFF	20.00 MHz	-31.44	-14.21	-30.63			40.00 MHz	20.00 MHz	-42.87	-25.64	-43.06						-25.84	OFF
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																														
				dBc	dBm																															
1	17.226 dBm/ 20.00 MHz	OFF	20.00 MHz	-31.44	-14.21	-30.63																														
		40.00 MHz	20.00 MHz	-42.87	-25.64	-43.06																														
					-25.84	OFF																														
5240	Agilent Spectrum Analyzer - ACP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.21 dB Ref 33.21 dBm -43.6 dBc -31.3 dBc 17.4 dBm -31.1 dBc -44.4 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.393 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr><tr><th></th><th></th><th></th><th></th><th>dBc</th><th>dBm</th><th></th></tr></thead><tbody><tr><td>1</td><td>17.393 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-31.29</td><td>-13.90</td><td>-31.07</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-43.60</td><td>-26.20</td><td>-44.39</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>-27.00</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter					dBc	dBm		1	17.393 dBm/ 20.00 MHz	OFF	20.00 MHz	-31.29	-13.90	-31.07			40.00 MHz	20.00 MHz	-43.60	-26.20	-44.39						-27.00	OFF
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																														
				dBc	dBm																															
1	17.393 dBm/ 20.00 MHz	OFF	20.00 MHz	-31.29	-13.90	-31.07																														
		40.00 MHz	20.00 MHz	-43.60	-26.20	-44.39																														
					-27.00	OFF																														

Channel(MHz)	W52:802.11ac(VHT20)																					
5180	Agilent Spectrum Analyzer - ACP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.3 dB Ref 33.30 dBm -43.7 dBc -27.4 dBc 17.5 dBm -28.7 dBc -44.4 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.475 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 17.475 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-27.44</td><td>-9.963</td><td>-28.72</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-43.73</td><td>-26.26</td><td>-44.44</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 17.475 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-27.44	-9.963	-28.72			40.00 MHz	20.00 MHz	-43.73	-26.26	-44.44
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																
1 17.475 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-27.44	-9.963	-28.72																
		40.00 MHz	20.00 MHz	-43.73	-26.26	-44.44																
5200	Agilent Spectrum Analyzer - ACP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.41 dB Ref 33.41 dBm -42.9 dBc -29.5 dBc 17.3 dBm -28.6 dBc -42.3 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.268 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 17.268 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-29.49</td><td>-12.22</td><td>-28.63</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-42.88</td><td>-25.61</td><td>-42.35</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 17.268 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-29.49	-12.22	-28.63			40.00 MHz	20.00 MHz	-42.88	-25.61	-42.35
Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter																
1 17.268 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-29.49	-12.22	-28.63																
		40.00 MHz	20.00 MHz	-42.88	-25.61	-42.35																
5240	Agilent Spectrum Analyzer - ACP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.21 dB Ref 33.21 dBm -44.1 dBc -28.7 dBc 17.9 dBm -28.4 dBc -44.7 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.899 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>Lower</th><th>Upper</th><th>Filter</th></tr></thead><tbody><tr><td>1 17.899 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>20.00 MHz</td><td>-28.65</td><td>-10.75</td><td>-28.44</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-44.08</td><td>-26.18</td><td>-44.74</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	Lower	Upper	Filter	1 17.899 dBm/ 20.00 MHz	OFF	20.00 MHz	20.00 MHz	-28.65	-10.75	-28.44			40.00 MHz	20.00 MHz	-44.08	-26.18	-44.74
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Channel(MHz)	W52:802.11n(HT20)																											
5180	Agilent Spectrum Analyzer - ACP Center Freq 5.180000000 GHz Center Freq: 5.180000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.3 dB Ref 33.30 dBm 10 dB/div Log 23.3 13.3 3.3 -43.5 dBc -28.7 dBc 17.4 dBm -30.1 dBc -44.2 dBc Center 5.18 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.388 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>17.388 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-28.67</td><td>-11.28</td><td>-30.15</td><td>-12.76</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-43.54</td><td>-26.15</td><td>-44.17</td><td>-26.78</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	17.388 dBm/ 20.00 MHz	OFF	20.00 MHz	-28.67	-11.28	-30.15	-12.76	OFF			40.00 MHz	20.00 MHz	-43.54	-26.15	-44.17	-26.78	OFF
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5200	Agilent Spectrum Analyzer - ACP Center Freq 5.200000000 GHz Center Freq: 5.200000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.41 dB Ref 33.41 dBm 10 dB/div Log 23.4 13.4 3.4 -42.8 dBc -31.0 dBc 17.2 dBm -30.2 dBc -42.2 dBc Center 5.2 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.173 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>17.173 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-30.97</td><td>-13.80</td><td>-30.21</td><td>-13.03</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-42.81</td><td>-25.64</td><td>-42.24</td><td>-25.07</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	17.173 dBm/ 20.00 MHz	OFF	20.00 MHz	-30.97	-13.80	-30.21	-13.03	OFF			40.00 MHz	20.00 MHz	-42.81	-25.64	-42.24	-25.07	OFF
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5240	Agilent Spectrum Analyzer - ACP Center Freq 5.240000000 GHz Center Freq: 5.240000000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.21 dB Ref 33.21 dBm 10 dB/div Log 23.2 13.2 3.2 -44.0 dBc -30.4 dBc 17.8 dBm -30.0 dBc -44.7 dBc Center 5.24 GHz #Res BW 300 kHz #VBW 300 kHz Span 100 MHz Sweep 20 ms Total Carrier Power 17.835 dBm/ 20.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>17.835 dBm/ 20.00 MHz</td><td>OFF</td><td>20.00 MHz</td><td>-30.35</td><td>-12.52</td><td>-29.97</td><td>-12.13</td><td>OFF</td></tr><tr><td></td><td></td><td>40.00 MHz</td><td>20.00 MHz</td><td>-44.02</td><td>-26.19</td><td>-44.72</td><td>-26.88</td><td>OFF</td></tr></tbody></table>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	1	17.835 dBm/ 20.00 MHz	OFF	20.00 MHz	-30.35	-12.52	-29.97	-12.13	OFF			40.00 MHz	20.00 MHz	-44.02	-26.19	-44.72	-26.88	OFF
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Channel(MHz)	W52:802.11ax(HE40)																																																																																							
5190	Agilent Spectrum Analyzer - ACP Center Freq 5.190000000 GHz Center Freq: 5.190000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.38 dB Ref 33.38 dBm -41.1 dBc -27.2 dBc 17.9 dBm -27.5 dBc -41.5 dBc Center 5.19 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 17.857 dBm/ 40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>17.857 dBm/ 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-27.25</td><td>-9.389</td><td>-27.48</td><td>-9.622</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-41.12</td><td>-23.26</td><td>-41.54</td><td>-23.68</td><td>OFF</td></tr></tbody></table> <tr><td>5230</td><td> Agilent Spectrum Analyzer - ACP Center Freq 5.230000000 GHz Center Freq: 5.230000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 13.22 dB Ref 33.22 dBm -40.9 dBc -29.4 dBc 18.1 dBm -27.1 dBc -42.0 dBc Center 5.23 GHz #Res BW 300 kHz #VBW 300 kHz Span 200 MHz Sweep 20 ms Total Carrier Power 18.133 dBm/ 40.00 MHz ACP-IBW <table><thead><tr><th>Carrier Power</th><th>Filter</th><th>Offset Freq</th><th>Integ BW</th><th>dBc</th><th>dBm</th><th>dBc</th><th>dBm</th><th>Filter</th></tr></thead><tbody><tr><td>1</td><td>18.133 dBm/ 40.00 MHz</td><td>OFF</td><td>40.00 MHz</td><td>-29.43</td><td>-11.29</td><td>-27.12</td><td>-8.991</td><td>OFF</td></tr><tr><td></td><td></td><td>80.00 MHz</td><td>40.00 MHz</td><td>-40.92</td><td>-22.78</td><td>-41.99</td><td>-23.86</td><td>OFF</td></tr></tbody></table> <tr><th>Channel(MHz)</th><th>W52:802.11ax(HE80)</th></tr><tr><td>5210</td><td> Agilent Spectrum Analyzer - 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9 Antenna Power and Tolerance

9.1 LIMIT

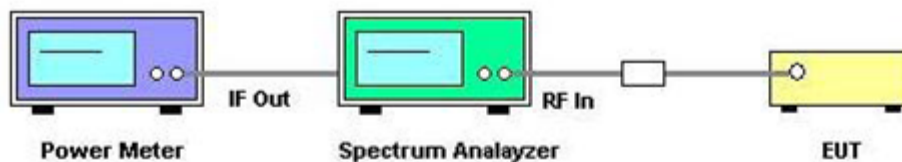
- (1) 10mW/MHz (OFDM, DSSS: 20MHz system),
 - (2) 5mW/MHz (OFDM: 40MHz system),
 - (3) 2.5mW/MHz (OFDM: 80MHz system),
 - (4) 1.25mW/MHz (OFDM: 160MHz system),
 - (5) 10mW/MHz (except above methods),
- Tolerance: W52/W53: -80%~+20%, W56: -50%~+50%.

9.2 TEST PROCEDURE

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A sample detector function must be used.
- (b) A measurement instrument with an integrated 1MHz power bandwidth function may be used to automate the test process.
- (c) Connect the EUT to the RF input of the spectrum analyzer via a 50ohm attenuator.
- (d) Set the RBW = 1MHz, VBW = 1MHz, center of frequency = operating frequency, Sweep = Auto.
- (e) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
- (f) Repeat above procedures until all frequency measured was complete.

9.3 Test Setup Block Diagram



9.4 TEST RESULT

W52

W52: Gain=-2.05dBi								
Mode	Channel (MHz)	Average burst power(dBm)	Antenna power (mW/MHz)	E.I.R.P (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit
802.11a	LCH	2.242	1.676	1.045	10	3	-44.143	-80% ~ +20%
	MCH	3.15	2.065	1.288	10	3	-31.154	
	HCH	3.798	2.398	1.496	10	3	-20.076	
802.11ac (VHT20)	LCH	1.366	1.370	0.854	10	3	-54.346	
	MCH	2.476	1.768	1.103	10	3	-41.051	
	HCH	3.174	2.077	1.295	10	3	-30.772	
802.11ac (VHT40)	LCH	-1.024	0.790	0.493	10	1	-21.005	
	HCH	-0.191	0.957	0.597	10	1	-4.303	
802.11ac (VHT80)	MCH	-1.619	0.689	0.430	10	1	-31.119	
802.11n20 (HT20)	LCH	1.504	1.414	0.882	10	3	-52.872	
	MCH	2.543	1.796	1.120	10	3	-40.134	
	HCH	3.349	2.162	1.349	10	3	-27.926	
802.11n (HT40)	LCH	-0.98	0.798	0.498	5	1	-20.201	
	HCH	-0.435	0.905	0.564	5	1	-9.531	
802.11ax (HE20)	LCH	0.697	1.174	0.732	10	2	-41.296	
	MCH	1.718	1.485	0.926	10	2	-25.737	
	HCH	2.486	1.773	1.106	10	2	-11.372	
802.11ax (HE40)	LCH	-0.605	0.870	0.543	5	2	-56.502	
	HCH	0.182	1.043	0.650	5	2	-47.860	
802.11ax (HE80)	MCH	-1.9	0.646	0.403	2.5	1	-35.435	

10. Unwanted Emissions Strength

10.1 LIMIT

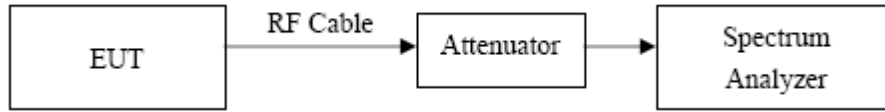
W52	
()-5250	
20MHz system	
OBW : 18MHz or less	OBW : 18 - 20 MHz
5,142 MHz or less : 2.5 μ W/MHz	5,142 MHz or less : 2.5 μ W/MHz
5,142 - 5,150 MHz : 15 μ W/MHz	5,142 - 5,150 MHz : 15 μ W/MHz
	5,250 - 5,250.2 MHz : $10^{1-(8/2)(f-9.75)}$ mW/MHz
5,250 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz	5,250.2 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz
5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz	5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz
5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz	5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz
5,266.7 MHz or more : 2.5 μ W/MHz	5,266.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5240 (MHz)	f = MHz, Difference from 5240 (MHz)

40MHz system	80MHz system
5,141.6 MHz or less : 2.5 μ W/MHz	5,123.2 MHz or less : 2.5 μ W/MHz
5,141.6 - 5,150 MHz : 15 μ W/MHz	5,123.2 - 5,150 MHz : 15 μ W/MHz
5,250 - 5,251 MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz	5,250 - 5,251 MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz
5,251 - 5,270 MHz : $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz	5,251 - 5,290 MHz : $10^{-(8/290)(f-41)-1+\log(1/4)}$ mW/MHz
5,270 - 5,278.4 MHz : $10^{-(2/50)(f-40)-1.8+\log(1/2)}$ mW/MHz	5,290 - 5,296.7 MHz : $10^{-(2/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
5,278.4 MHz or more : 2.5 μ W/MHz	5,296.7 MHz or more : 2.5 μ W/MHz
f = MHz, Difference from 5230 (MHz)	f = MHz, Difference from 5210 (MHz)

10.2 TEST PROCEDURE

- (1) A spectrumIn case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

10.3 TEST SETUP Block Diagram



10.4 TEST RESULT

W52

802.11a

Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result(dBm)	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	2662.68	-40.82	-26	-26	PASS
		5142MHz-5150MHz	5149.66	-30.3	-18	-18	PASS
		5250MHz-5251MHz	5250.56	-39.08	0	-10	PASS
		5251MHz-5260MHz	5255.38	-39.08	-10	-18	PASS
		5260MHz-5266.7MHz	5266.3	-38.72	-18	-26	PASS
		5266.7MHz-26000MHz	25025.53	-35.98	-26	-26	PASS
	5200MHz	30MHz-5142MHz	2662.68	-40.58	-26	-26	PASS
		5142MHz-5150MHz	5144.91	-38.77	-18	-18	PASS
		5250MHz-5251MHz	5250.91	-39.09	0	-10	PASS
		5251MHz-5260MHz	5257.04	-39.18	-10	-18	PASS
		5260MHz-5266.7MHz	5264.52	-39.17	-18	-26	PASS
		5266.7MHz-26000MHz	24984.07	-36.28	-26	-26	PASS
	5240MHz	30MHz-5142MHz	2637.12	-41.13	-26	-26	PASS
		5142MHz-5150MHz	5149.98	-38.36	-18	-18	PASS
		5250MHz-5251MHz	5250.6	-39.31	0	-10	PASS
		5251MHz-5260MHz	5259.76	-38.68	-10	-18	PASS
		5260MHz-5266.7MHz	5261.61	-39.63	-18	-26	PASS
		5266.7MHz-26000MHz	25730.47	-36.51	-26	-26	PASS

802.11ac

Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	3148.32	-40.55	-26	-26	PASS
		5142MHz-5150MHz	5148.26	-31.82	-18	-18	PASS
		5250MHz-5251MHz	5250.12	-39.23	0	-10	PASS

Normal Voltage		5251MHz-5260MHz	5254.82	-39.14	-10	-18	PASS
		5260MHz-5266.7MHz	5264.68	-39.03	-18	-26	PASS
		5266.7MHz-26000MHz	25460.93	-36.32	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3122.76	-40.19	-26	-26	PASS
		5142MHz-5150MHz	5146.9	-39.14	-18	-18	PASS
		5250MHz-5251MHz	5250.33	-37.89	0	-10	PASS
		5251MHz-5260MHz	5255.43	-38.42	-10	-18	PASS
		5260MHz-5266.7MHz	5262.57	-39.19	-18	-26	PASS
		5266.7MHz-26000MHz	25004.8	-35.97	-26	-26	PASS
	5240MHz	30MHz-5142MHz	4595.02	-39.47	-26	-26	PASS
		5142MHz-5150MHz	5147.8	-39.26	-18	-18	PASS
		5250MHz-5251MHz	5250.54	-39.32	0	-10	PASS
		5251MHz-5260MHz	5255.95	-39.52	-10	-18	PASS
		5260MHz-5266.7MHz	5260.02	-39.57	-18	-26	PASS
		5266.7MHz-26000MHz	25751.2	-36.48	-26	-26	PASS
	5190MHz	30MHz-5141.6MHz	5141.6	-30.64	-26	-26	PASS
		5141.6MHz-5150MHz	5148.65	-18.22	-18	-18	PASS
		5250MHz-5251MHz	5250.47	-30.9	-3	-13	PASS
		5251MHz-5270MHz	5252.2	-29.69	-13	-21	PASS
		5270MHz-5278.4MHz	5270.92	-36.34	-21	-26	PASS
		5278.4MHz-26000MHz	25792.78	-36.18	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	3050.96	-41.1	-26	-26	PASS
		5141.6MHz-5150MHz	5146.01	-38.35	-18	-18	PASS
		5250MHz-5251MHz	5250.69	-39.84	-3	-13	PASS
		5251MHz-5270MHz	5265.95	-39.92	-13	-21	PASS
		5270MHz-5278.4MHz	5270.53	-39.87	-21	-26	PASS
		5278.4MHz-26000MHz	25751.34	-36.38	-26	-26	PASS
Normal Voltage	5210MHz	30MHz-5123.2MHz	4598.6	-40.07	-26	-26	PASS
		5123.2MHz-5150MHz	5126.47	-39.36	-18	-18	PASS
		5250MHz-5251MHz	5250.16	-39.1	-6	-16	PASS
		5251MHz-5290MHz	5252.91	-38.59	-16	-24	PASS
		5290MHz-5296.7MHz	5293.06	-39.15	-24	-26	PASS
		5296.7MHz-26000MHz	24985.54	-36.11	-26	-26	PASS

802.11n

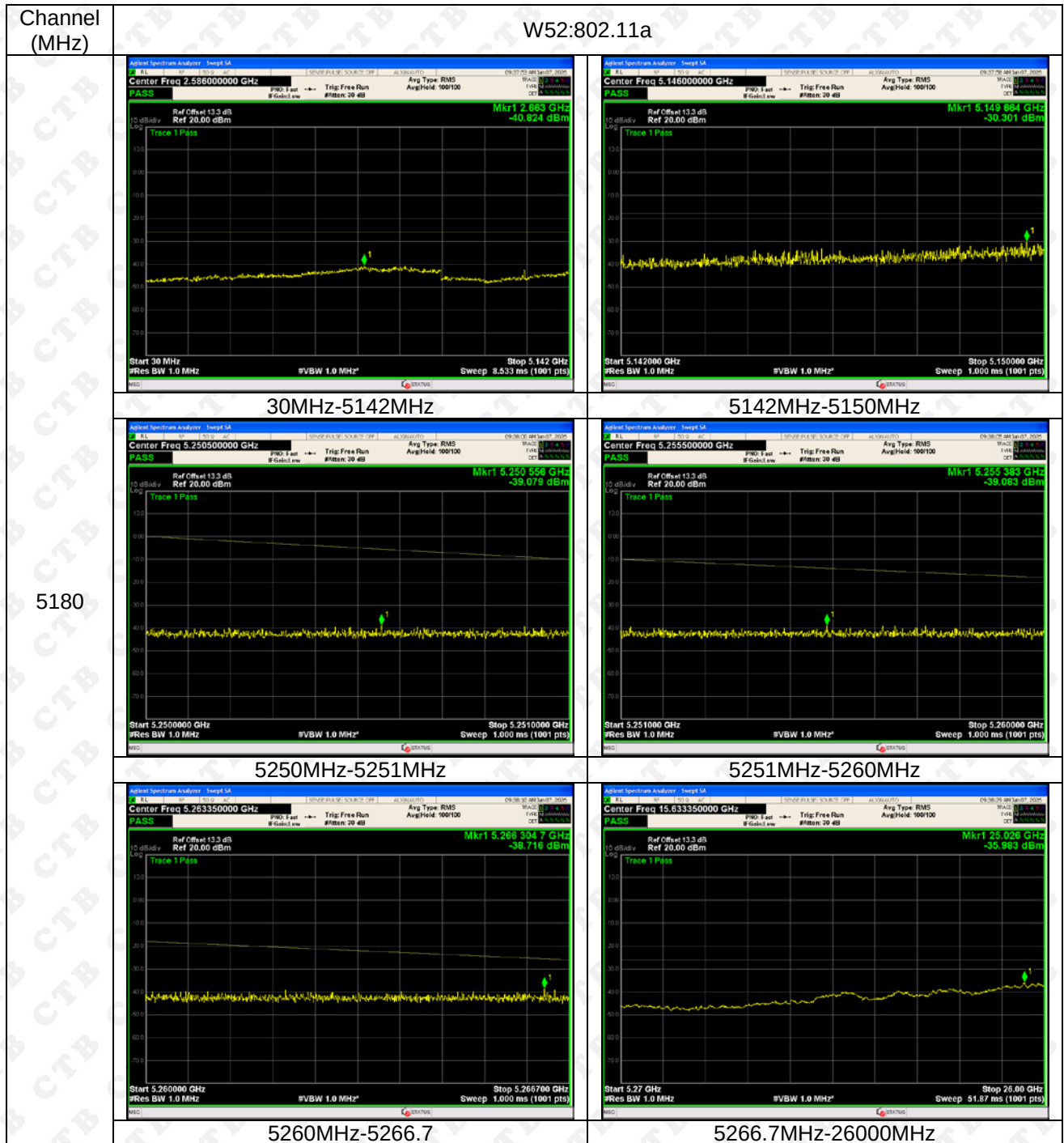
Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	3143.21	-39.99	-26	-26	PASS
		5142MHz-5150MHz	5149.88	-32.15	-18	-18	PASS
		5250MHz-5251MHz	5250.67	-39.33	0	-10	PASS
		5251MHz-5260MHz	5251.36	-38.65	-10	-18	PASS
		5260MHz-5266.7MHz	5265.58	-39.07	-18	-26	PASS
		5266.7MHz-26000MHz	25046.27	-36.43	-26	-26	PASS
	5200MHz	30MHz-5142MHz	3153.43	-40.7	-26	-26	PASS
		5142MHz-5150MHz	5149.53	-38.1	-18	-18	PASS
		5250MHz-5251MHz	5250.34	-38.19	0	-10	PASS
		5251MHz-5260MHz	5256.68	-38.27	-10	-18	PASS
		5260MHz-5266.7MHz	5266.59	-38.78	-18	-26	PASS
		5266.7MHz-26000MHz	25730.47	-35.98	-26	-26	PASS
	5240MHz	30MHz-5142MHz	2672.9	-41.17	-26	-26	PASS
		5142MHz-5150MHz	5144.99	-38.98	-18	-18	PASS
		5250MHz-5251MHz	5250.46	-39.54	0	-10	PASS
		5251MHz-5260MHz	5257.54	-39.92	-10	-18	PASS
		5260MHz-5266.7MHz	5265.19	-39.8	-18	-26	PASS
		5266.7MHz-26000MHz	25751.2	-36.05	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-30.82	-26	-26	PASS
		5141.6MHz-5150MHz	5145.71	-19.32	-18	-18	PASS
		5250MHz-5251MHz	5250.91	-32.44	-3	-13	PASS
		5251MHz-5270MHz	5251.87	-33.99	-13	-21	PASS
		5270MHz-5278.4MHz	5275.54	-38.28	-21	-26	PASS
		5278.4MHz-26000MHz	25834.23	-36.31	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	4599.77	-39.77	-26	-26	PASS
		5141.6MHz-5150MHz	5148.1	-38.84	-18	-18	PASS
		5250MHz-5251MHz	5250.14	-40.03	-3	-13	PASS
		5251MHz-5270MHz	5259.55	-39.45	-13	-21	PASS
		5270MHz-5278.4MHz	5270.41	-37.89	-21	-26	PASS
		5278.4MHz-26000MHz	25751.34	-35.76	-26	-26	PASS

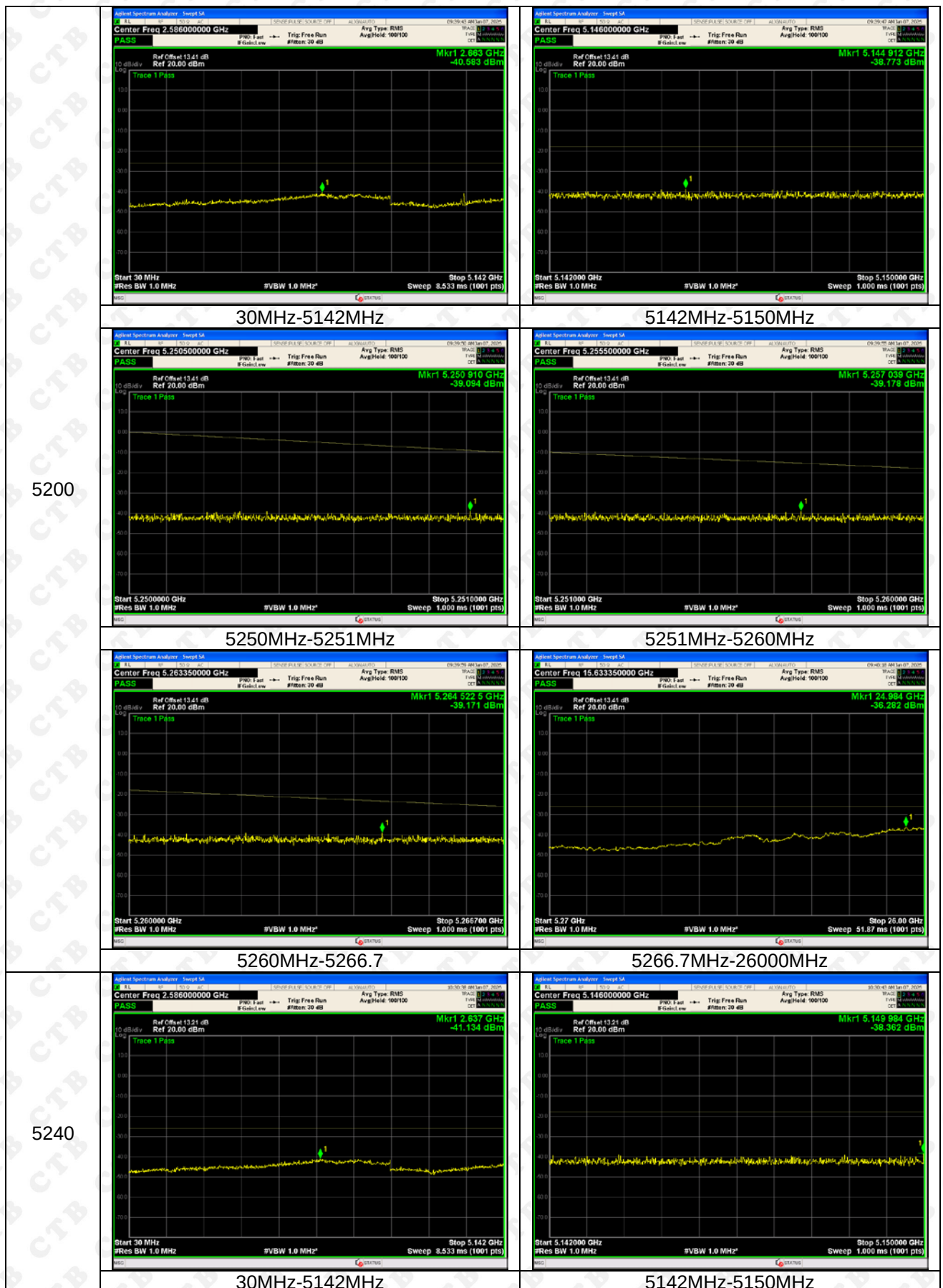
802.11ax

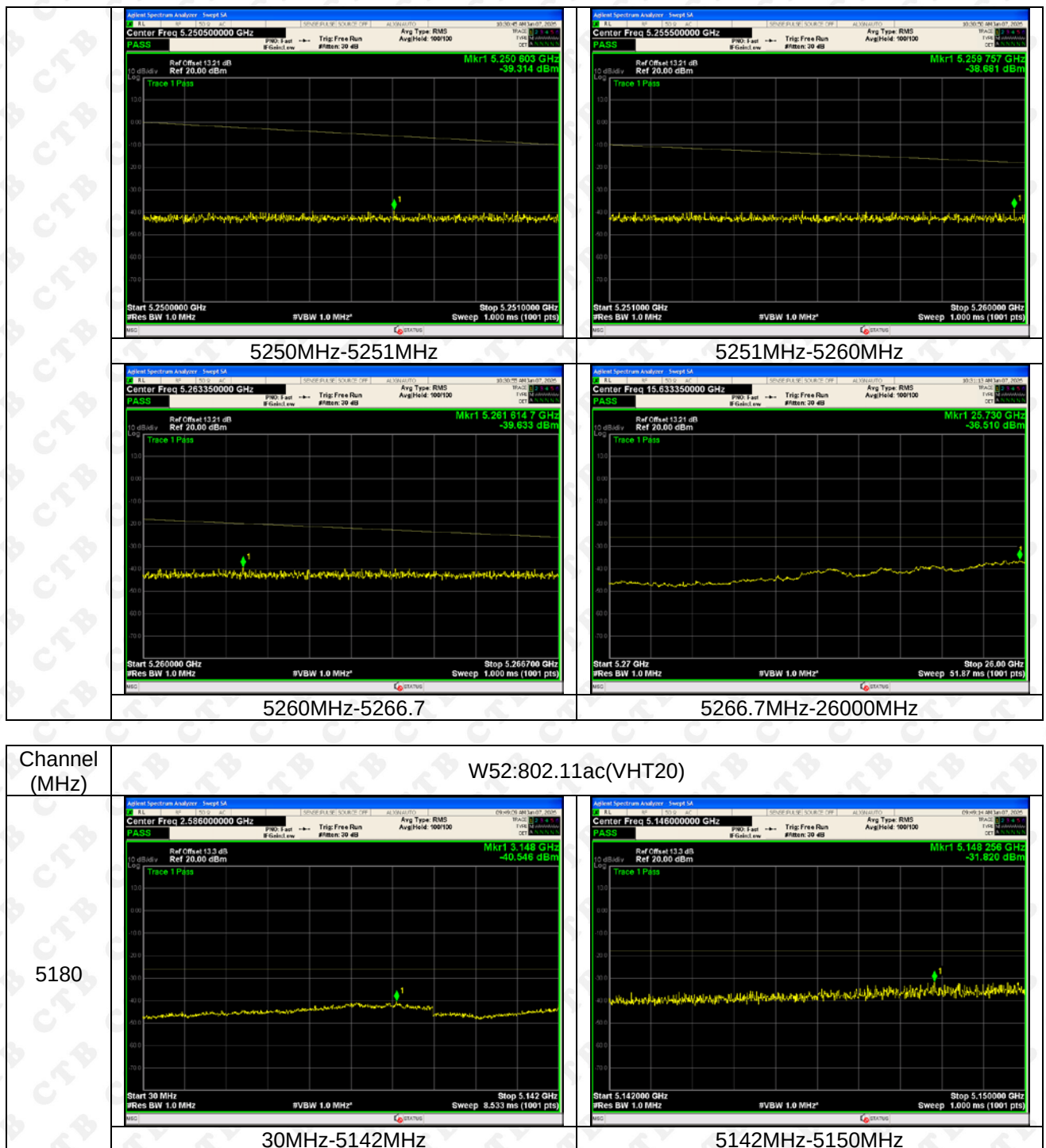
Test voltage	Test freq.	Test freq. range	Mkr(MHz)	Test result	Limit Start(dBm)	Limit Stop (dBm)	Result
Normal Voltage	5180MHz	30MHz-5142MHz	2739.36	-40.72	-26	-26	PASS
		5142MHz-5150MHz	5149.82	-33.62	-18	-18	PASS
		5250MHz-5251MHz	5250.51	-39	0	-10	PASS
		5251MHz-5260MHz	5253.21	-38.78	-10	-18	PASS
		5260MHz-5266.7MHz	5263.12	-39.26	-18	-26	PASS
		5266.7MHz-26000MHz	24984.07	-36.1	-26	-26	PASS
	5200MHz	30MHz-5142MHz	2928.5	-40.62	-26	-26	PASS
		5142MHz-5150MHz	5145.56	-37.86	-18	-18	PASS
		5250MHz-5251MHz	5250.28	-39.13	0	-10	PASS
		5251MHz-5260MHz	5257.39	-39.51	-10	-18	PASS
		5260MHz-5266.7MHz	5266.53	-38.85	-18	-26	PASS
		5266.7MHz-26000MHz	25004.8	-35.97	-26	-26	PASS
	5240MHz	30MHz-5142MHz	3173.88	-40.65	-26	-26	PASS
		5142MHz-5150MHz	5142.75	-37.74	-18	-18	PASS
		5250MHz-5251MHz	5250.76	-39.28	0	-10	PASS
		5251MHz-5260MHz	5256.96	-38.9	-10	-18	PASS
		5260MHz-5266.7MHz	5263.56	-39.3	-18	-26	PASS
		5266.7MHz-26000MHz	25004.8	-36.43	-26	-26	PASS
Normal Voltage	5190MHz	30MHz-5141.6MHz	5141.6	-29.99	-26	-26	PASS
		5141.6MHz-5150MHz	5149.61	-19.39	-18	-18	PASS
		5250MHz-5251MHz	5250.84	-31.92	-3	-13	PASS
		5251MHz-5270MHz	5254.23	-32.94	-13	-21	PASS
		5270MHz-5278.4MHz	5272.37	-37.79	-21	-26	PASS
		5278.4MHz-26000MHz	25005.36	-36.05	-26	-26	PASS
	5230MHz	30MHz-5141.6MHz	2642.03	-40.69	-26	-26	PASS
		5141.6MHz-5150MHz	5146.3	-37.82	-18	-18	PASS
		5250MHz-5251MHz	5250.78	-39.21	-3	-13	PASS
		5251MHz-5270MHz	5251.36	-39.43	-13	-21	PASS
		5270MHz-5278.4MHz	5277.38	-38.85	-21	-26	PASS
		5278.4MHz-26000MHz	24984.64	-35.86	-26	-26	PASS
Normal Voltage	5210MHz	30MHz-5123.2MHz	4598.6	-39.88	-26	-26	PASS
		5123.2MHz-5150MHz	5128.94	-39.14	-18	-18	PASS
		5250MHz-5251MHz	5250.04	-39.17	-6	-16	PASS

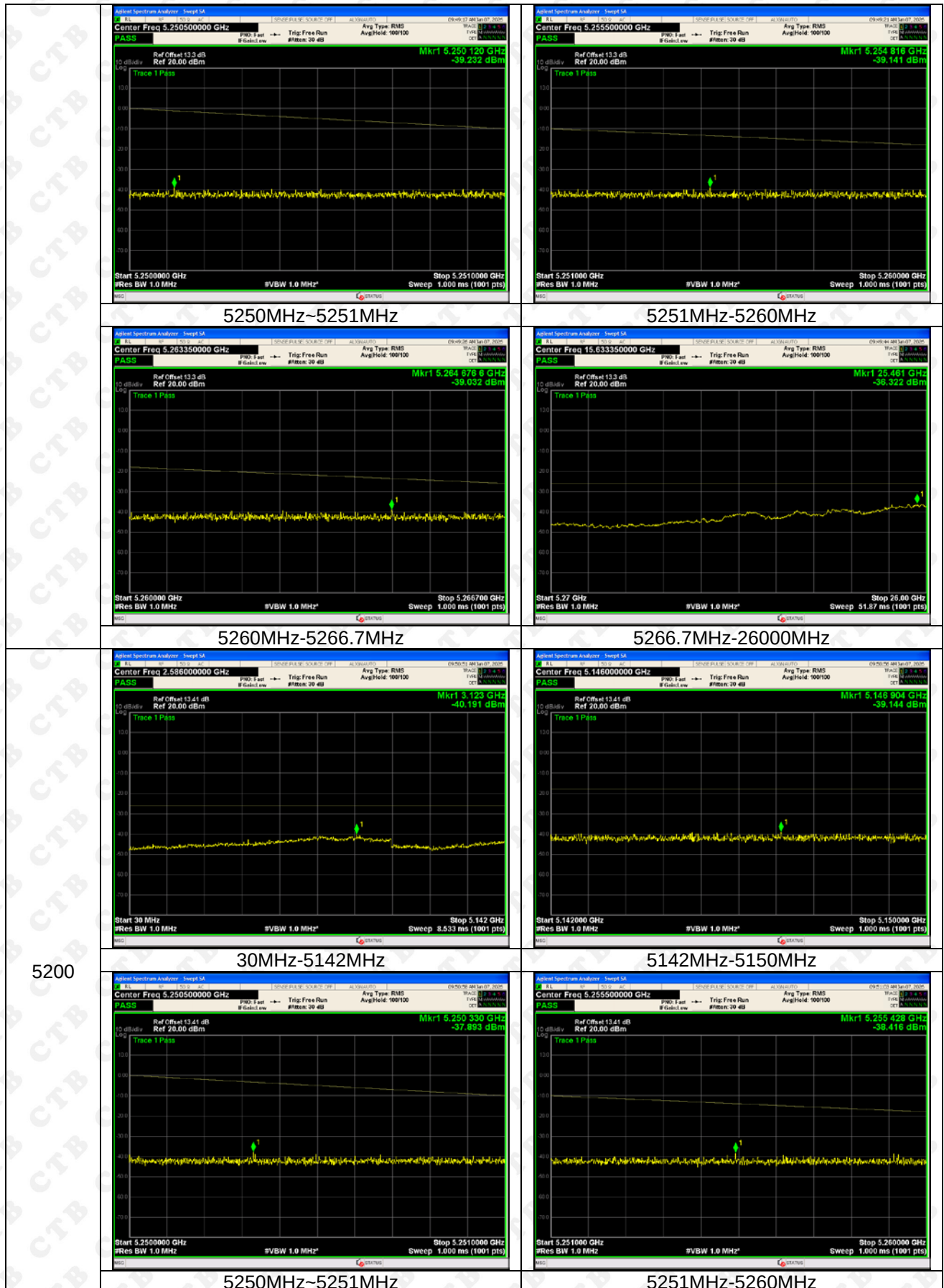


	5251MHz-5290MHz	5258.57	-39.34	-16	-24	PASS
	5290MHz-5296.7MHz	5292.97	-39.73	-24	-26	PASS
	5296.7MHz-26000MHz	25751.56	-36.32	-26	-26	PASS

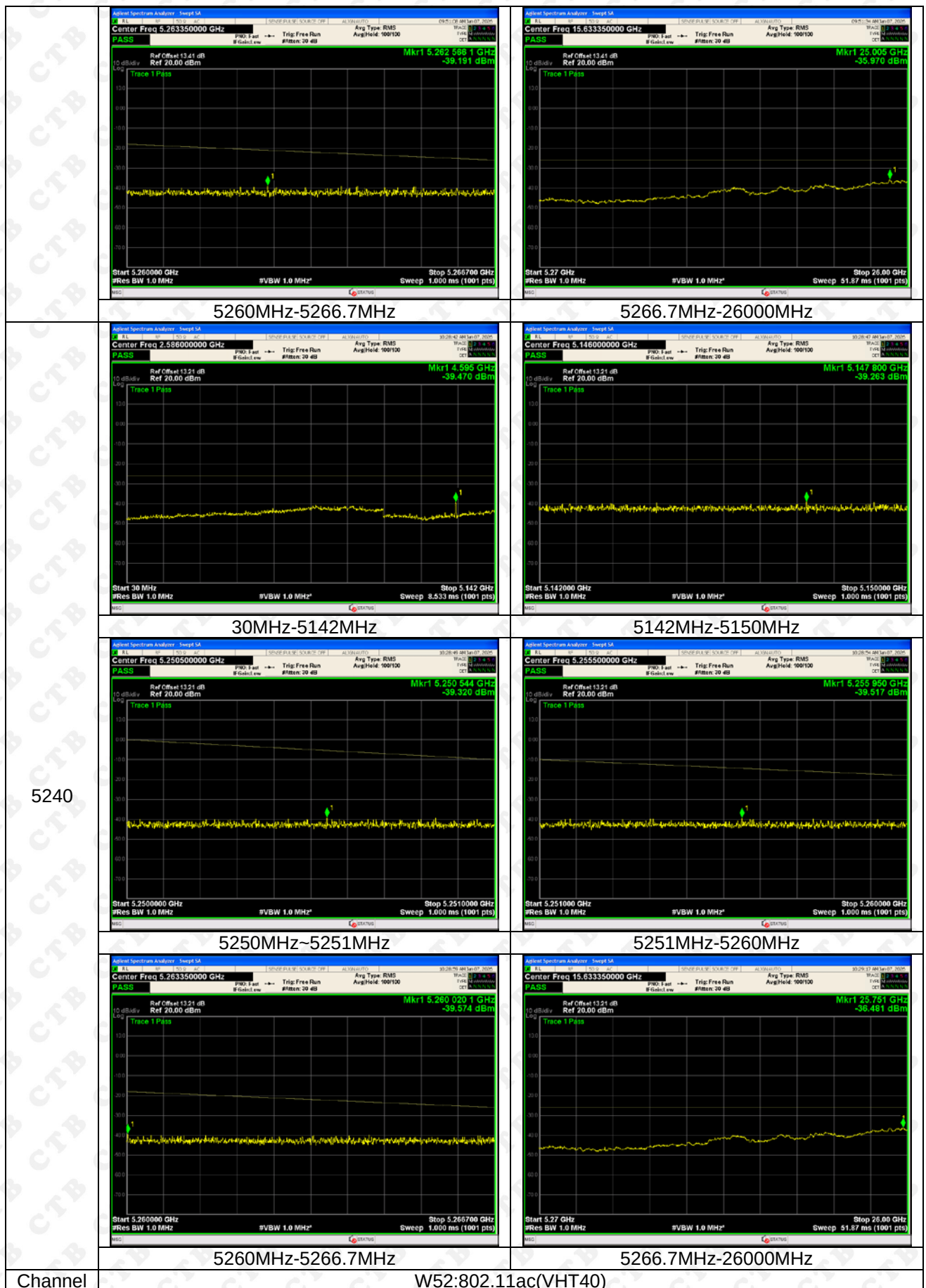


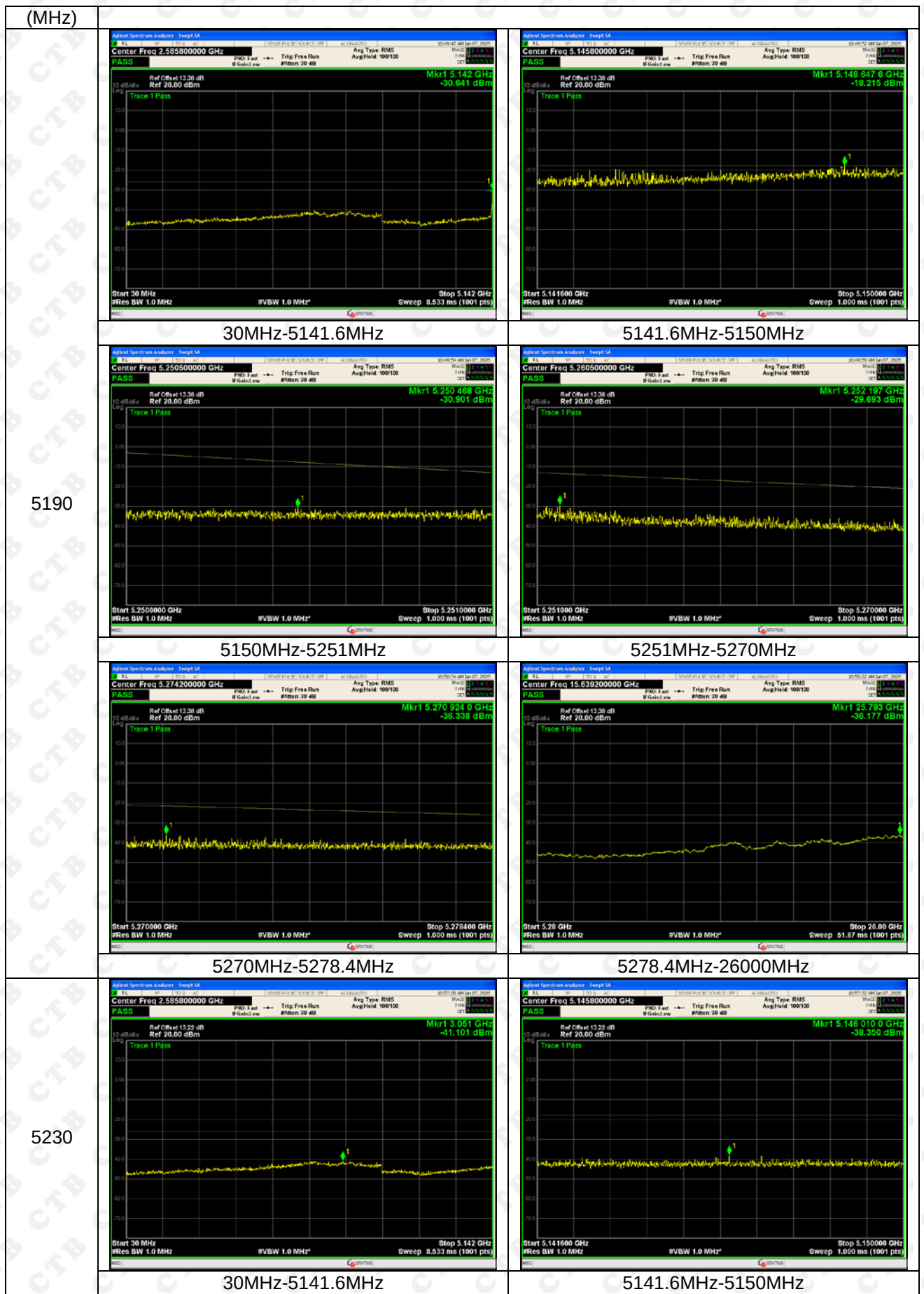


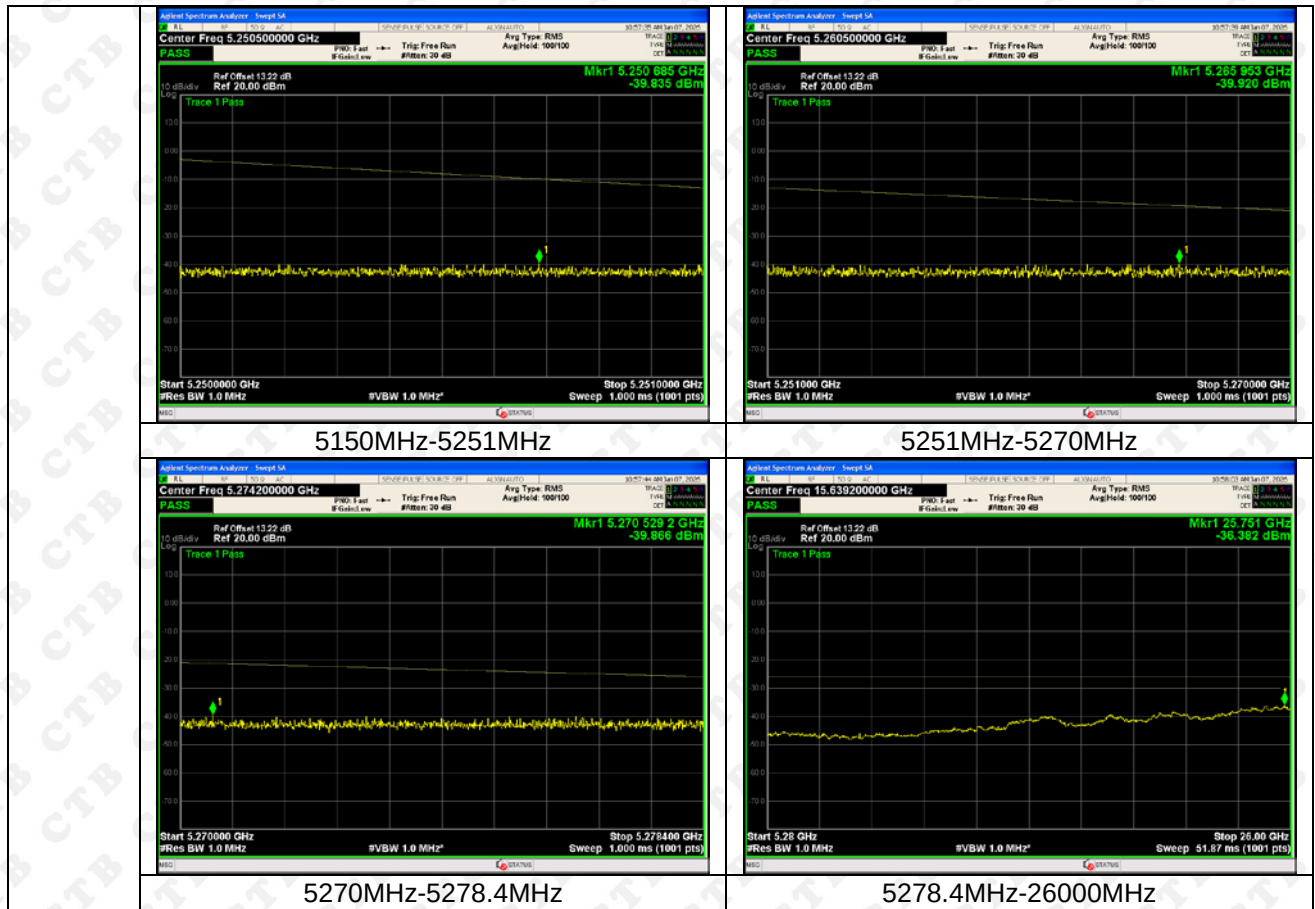


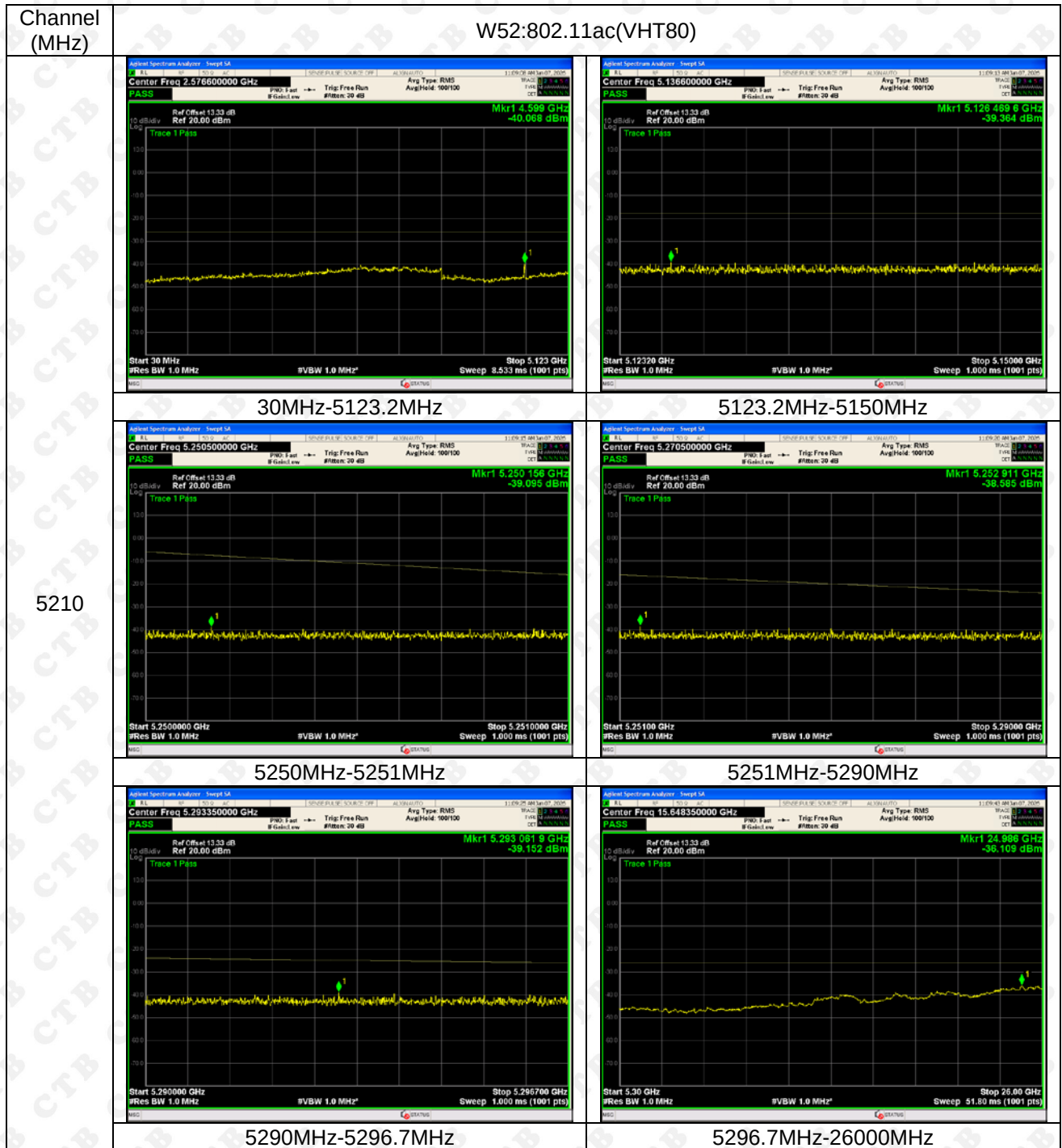


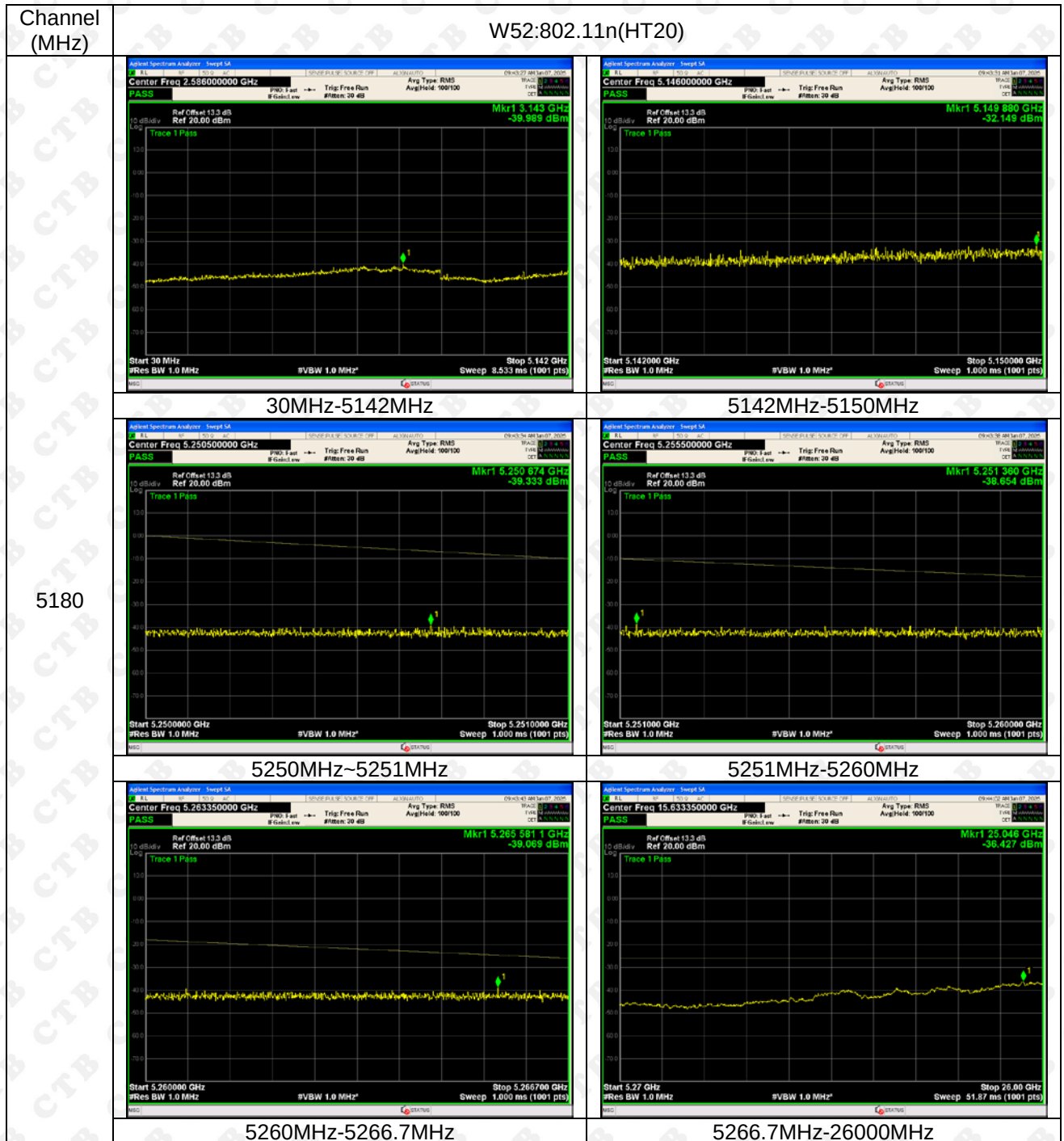
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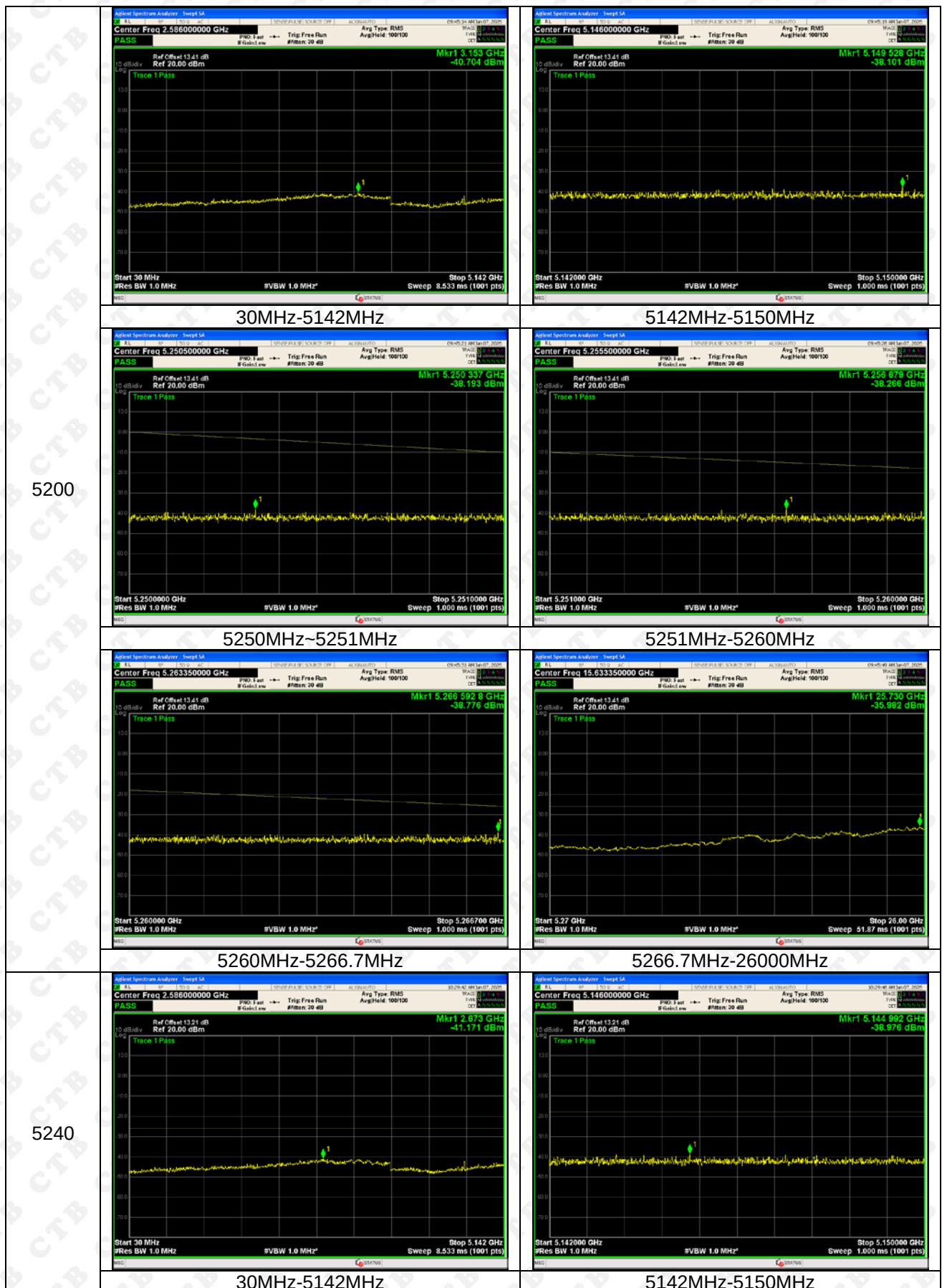


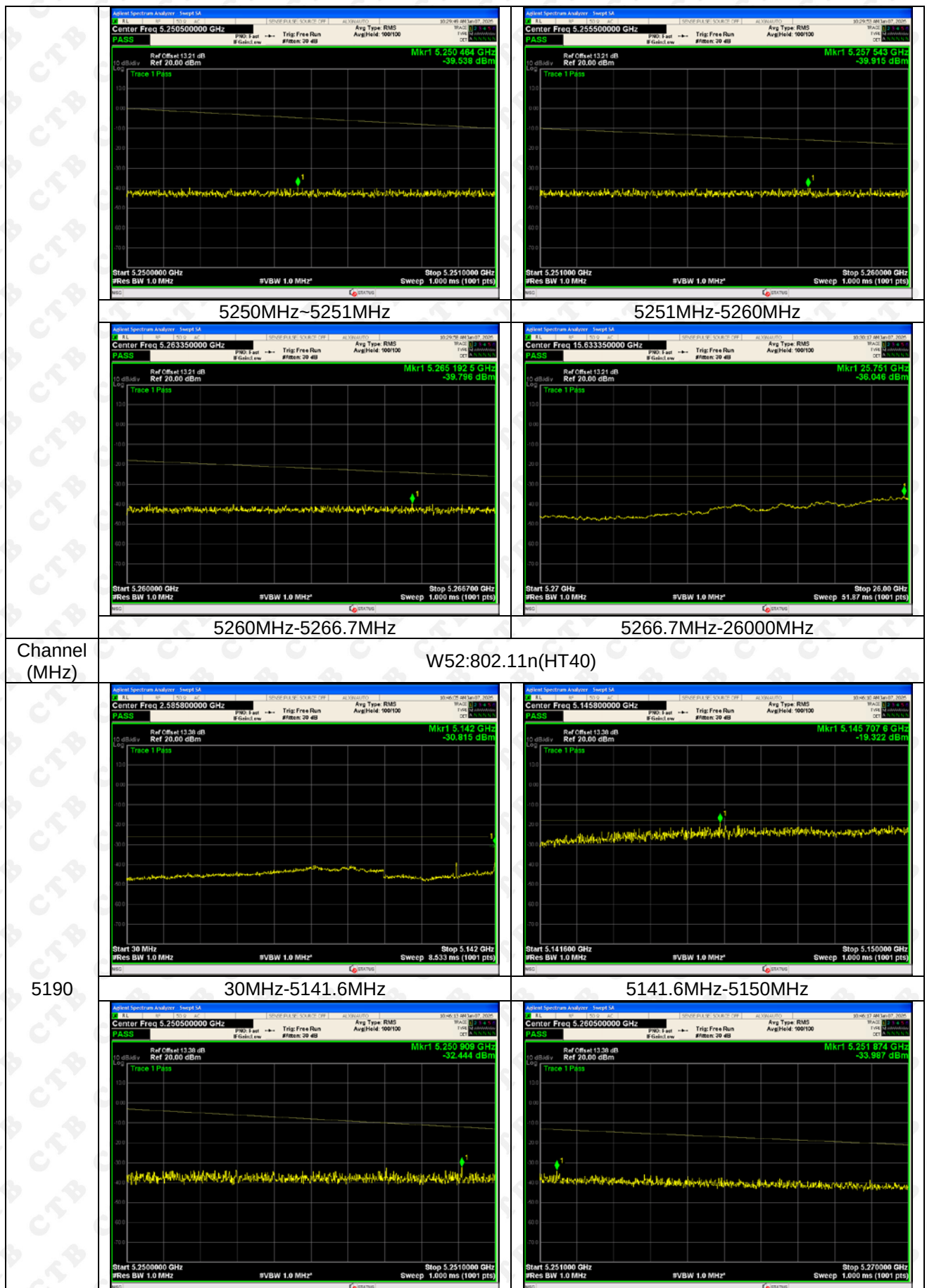


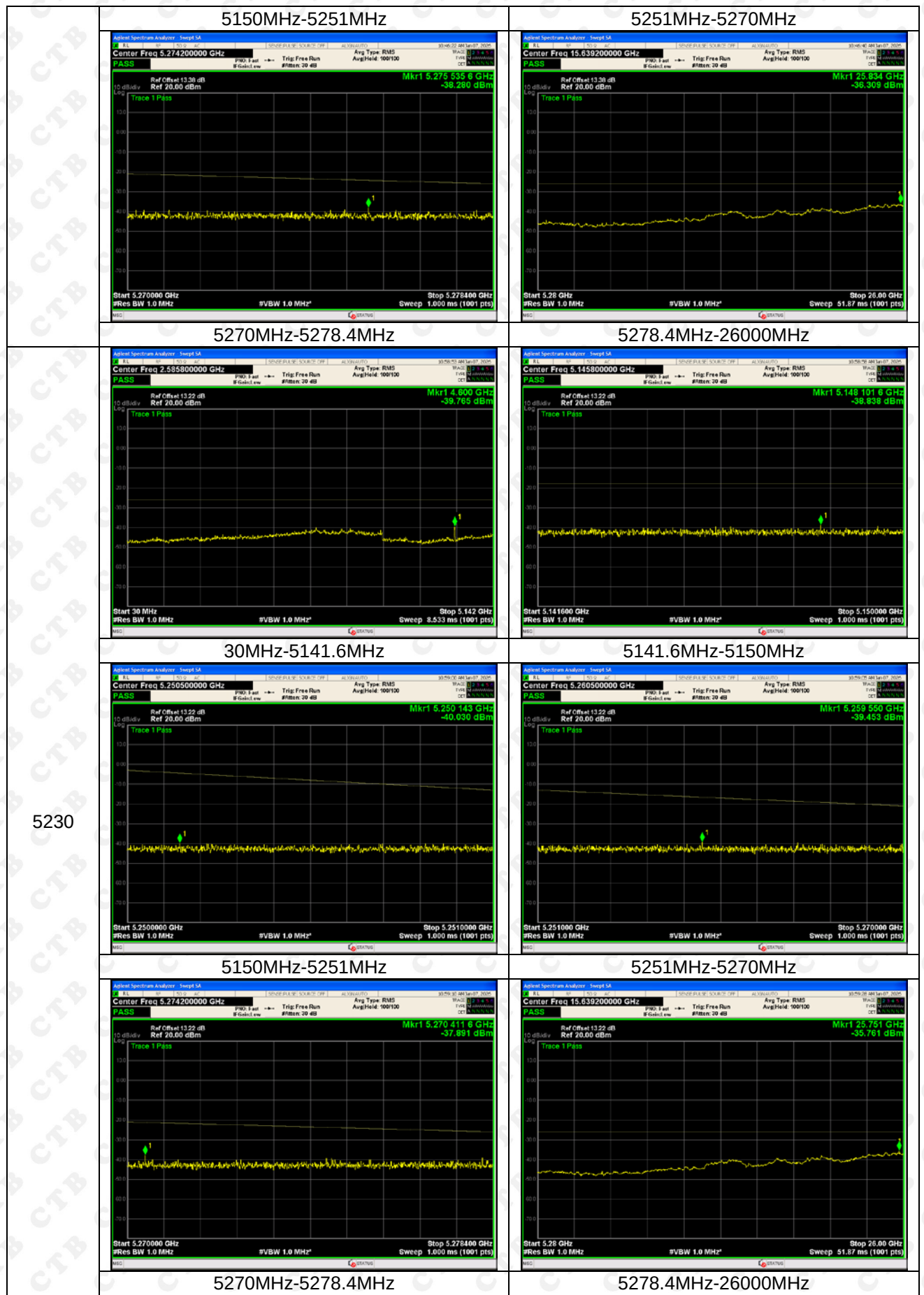


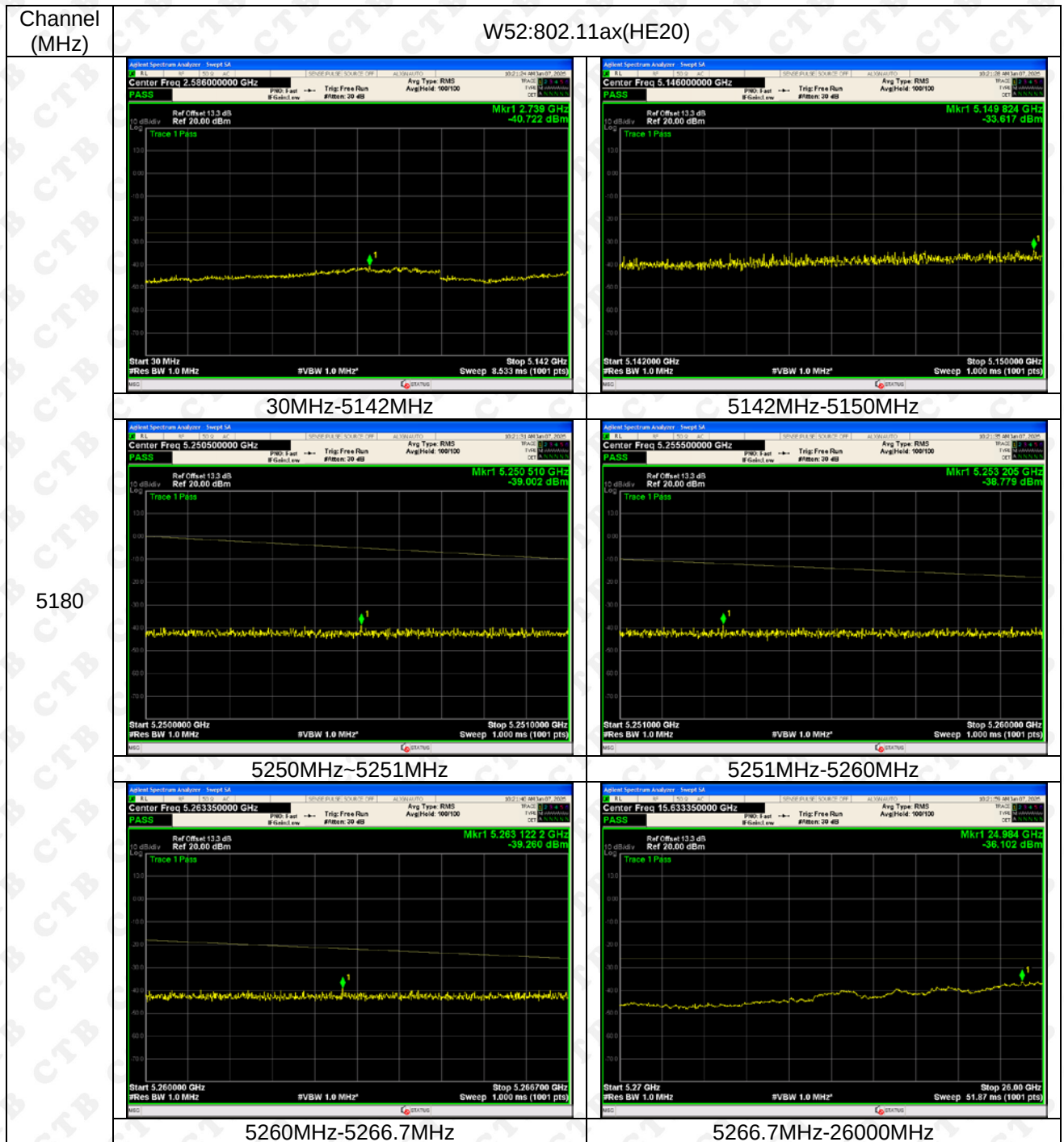


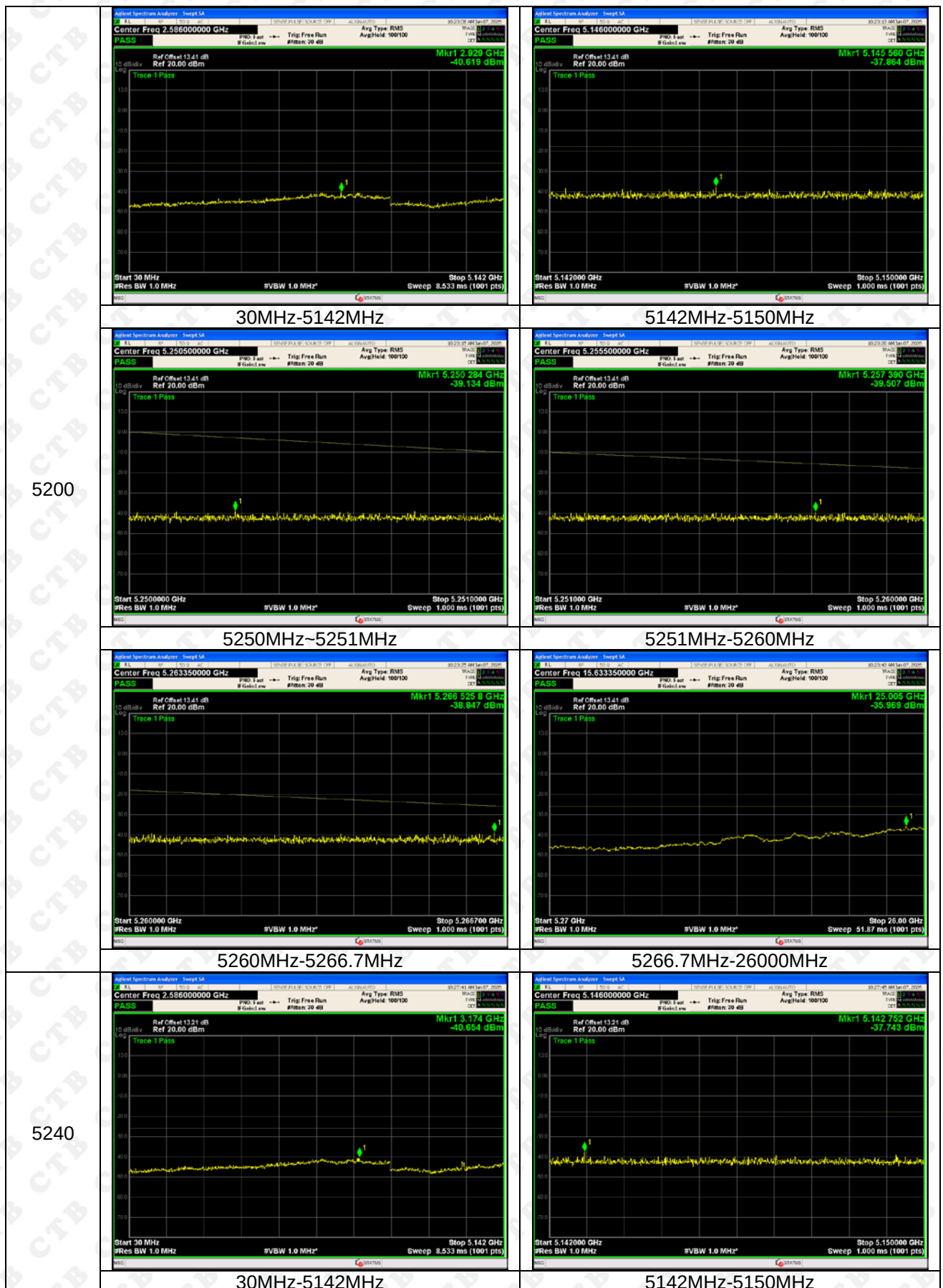


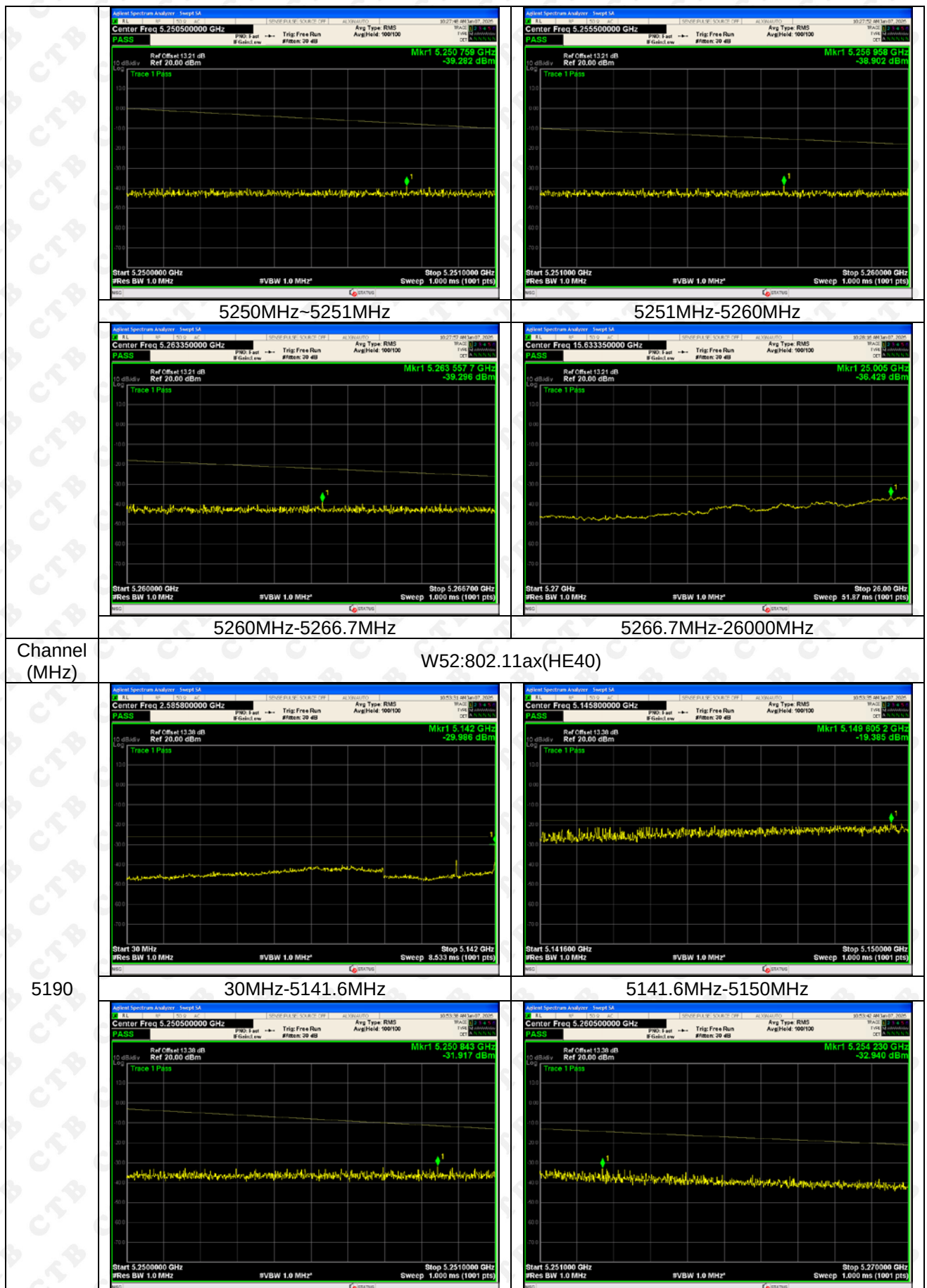


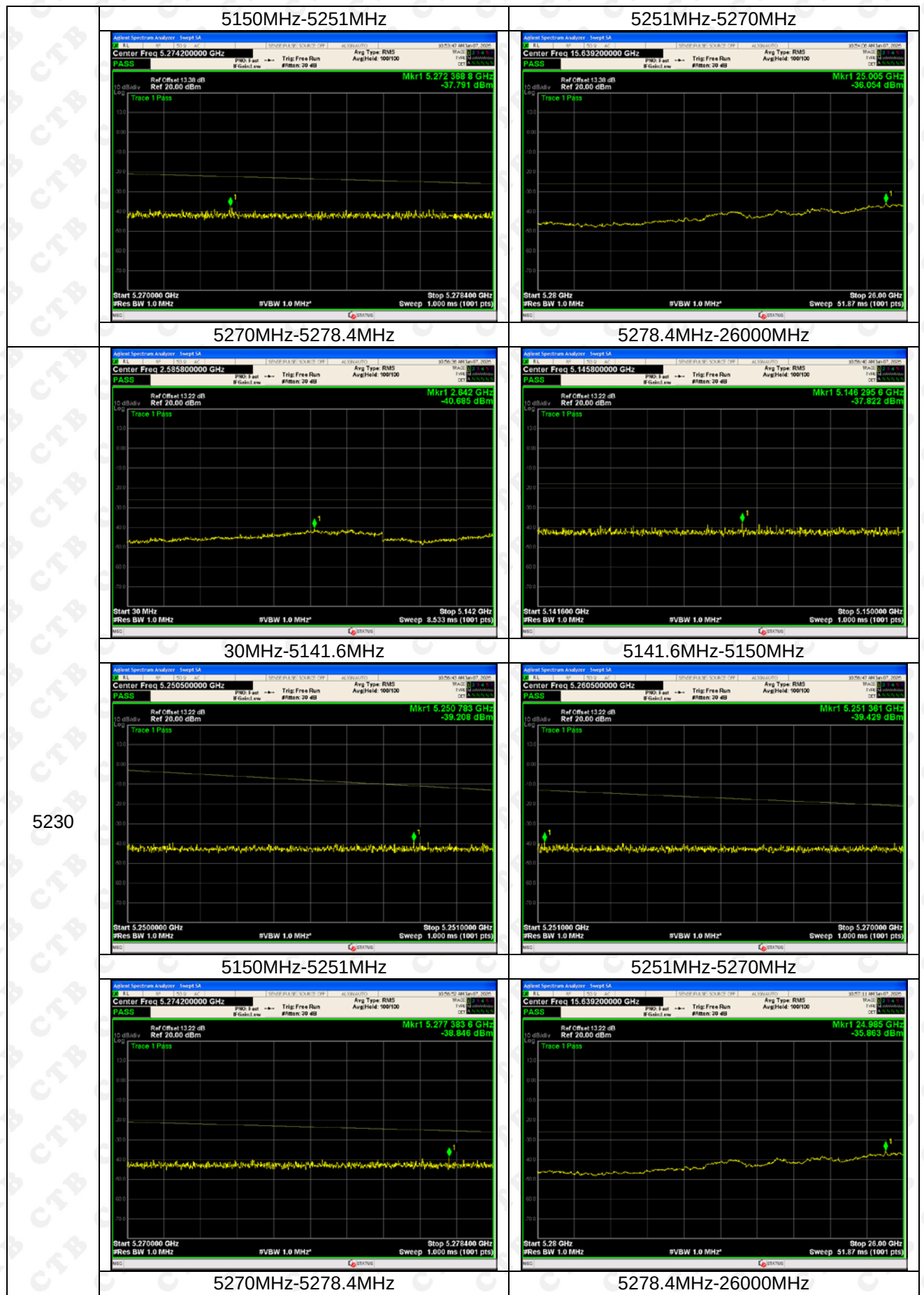


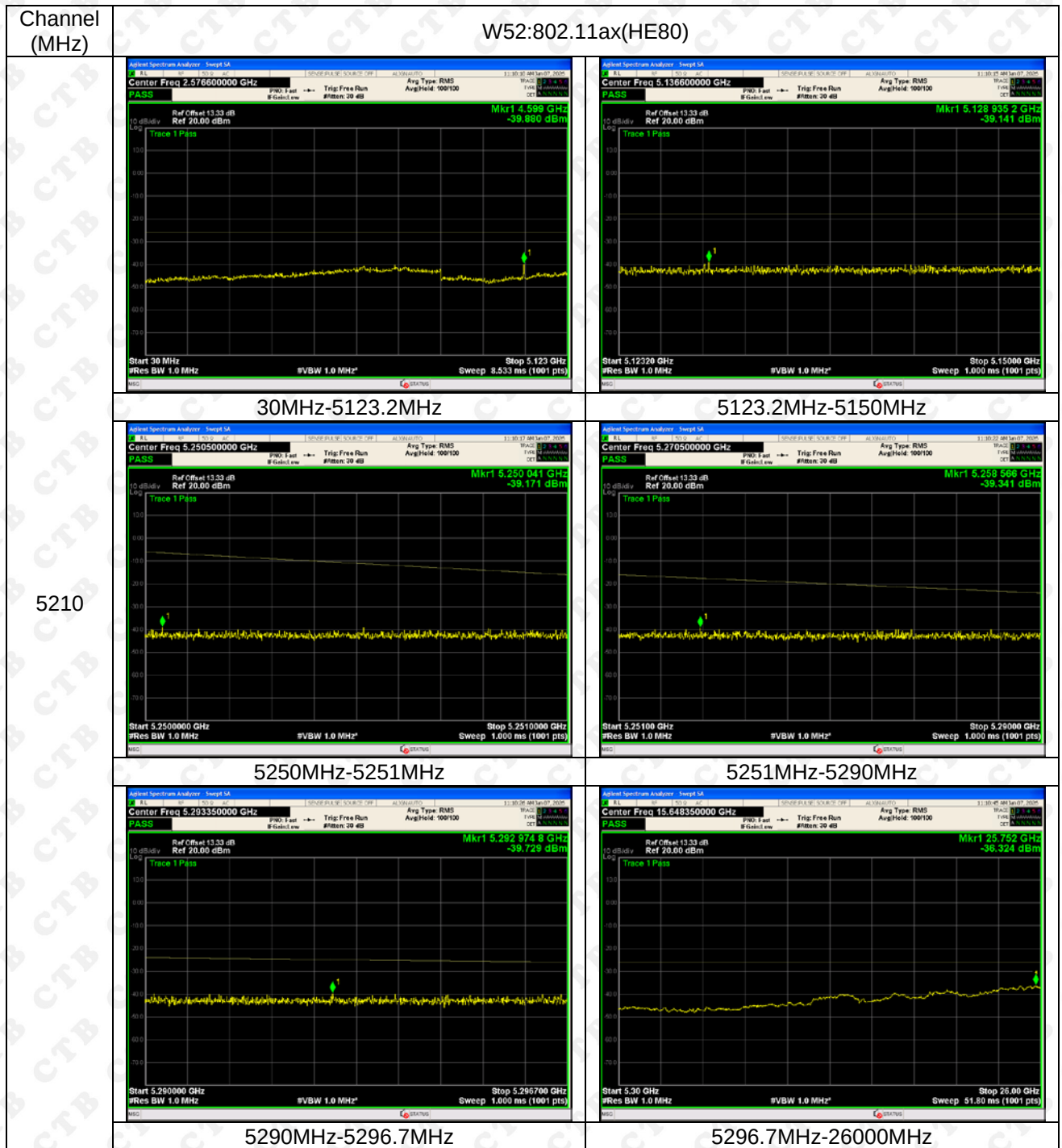












11 Interference Prevention Function

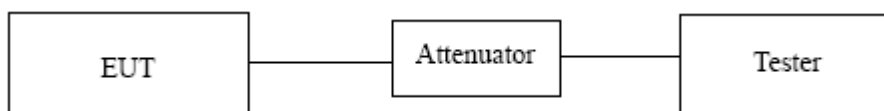
11.1 LIMIT

According to Item 19-3 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

11.2 TEST PROCEDURE

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded with "Good" or "No".

11.3 TEST SETUP LAYOUT



11.4 TEST RESULT

Transmitter:

The transmitting mode (the identification code is more than 48 bits) of EUT is on normal operating, the interference prevention function is good.

Receiver:

The transmitting mode of EUT is on normal operating, the interference prevention function is good.

MAC: 9C:A5:25:BA:87:F7

12 Carrier sense capability

12.1 LIMIT

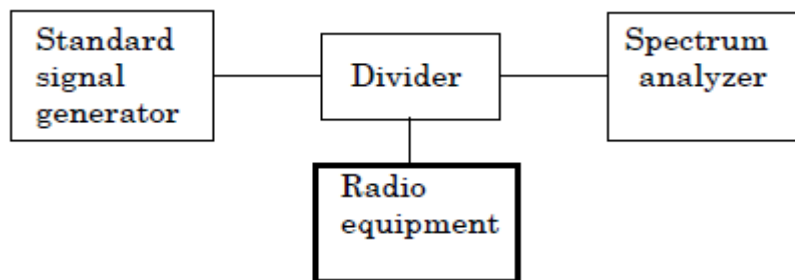
According to ORRE, art 49.20. The device shall have the carrier sensing function.

12.2 TEST PROCEDURE

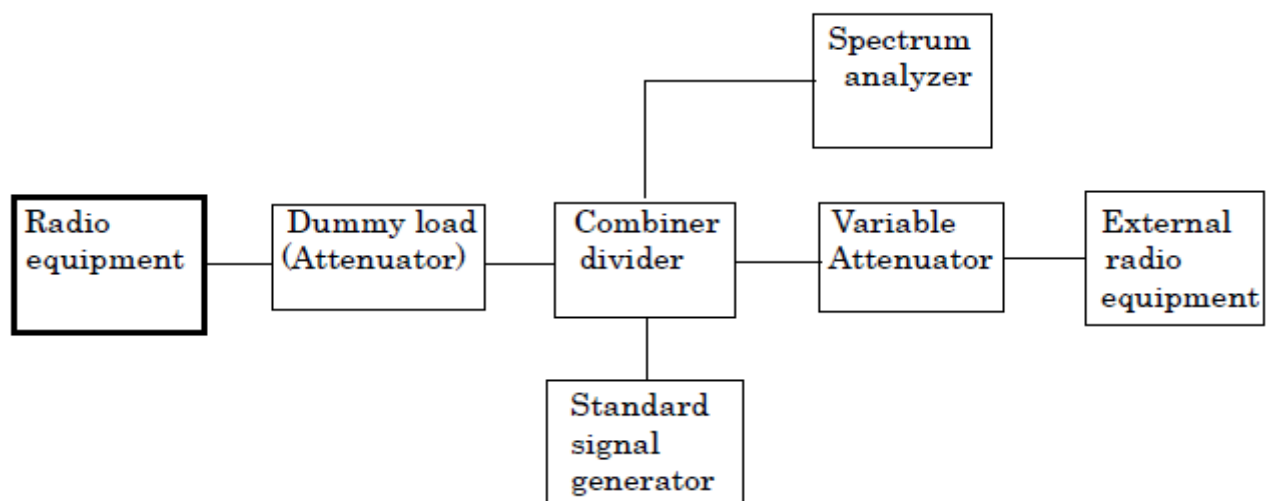
1. SG adjust the frequency as same as the EUT transmitted signal, unmodulation, power level 0dBm, Then turn off the RF signal
2. EUT have transmitted the maximum modulation signal and fixed channel
3. Setting of the SA following as RBW/VBW: 1/3MHz SPAN: 50MHz Sweep time: Auto continue PK
4. SG Signal on EUT shall be stop the transmitted, Then turn off the SG, The EUT shall be continuous transmitted signal.

12.3 TEST SETUP BLOCK DIAGRAM

(1) Test performed with the radio equipment to be tested only



(2) Test performed using the external radio equipment



12.4 TEST RESULT

EUT Stop RF transmission signal after carrier inject to EUT. Stop carrier inject, EUT will transmitting normal.)

13 Construction Protection Confirmation

12.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

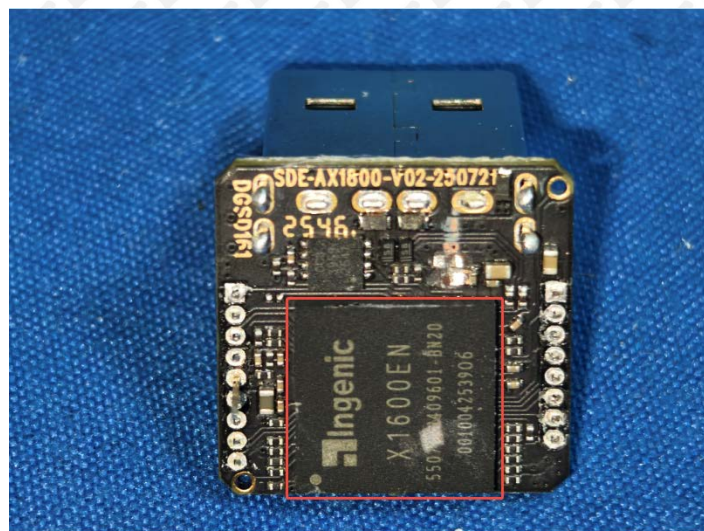
13.2 Confirmation method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded and RF and modulation parts, and ID-ROM is welded using BGA Method.
☐	Shield case is welded and RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded and RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☒	Other: All RF and modulation section packet in one IC, and IC is welded using BGA Method, and RF module is welded on the main board, end-User can't open it easily.

13.3 The photos of construction protection

The red circle is welding point.

The RF chip has a terminal distance to less than 1mm and has 44 terminal.



14 Transmission Burst Length

14.1 LIMIT

8ms or less

14.2 TEST PROCEDURE

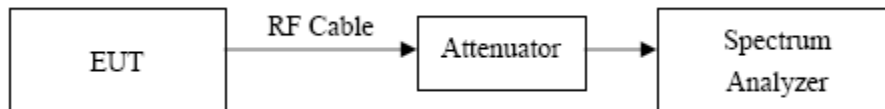
Enable EUT under transmission mode and connected it to the spectrum analyzer through antenna output port as the block diagram show in TEST CONFIGURATION

Use Spectrum's ACP measurement function and set spectrum analyzer as fellow:

Spectrum Condition:

- (1) Frequency: test frequency
- (2) Span: 0Hz, RBW: 1MHz, VBW: 3MHz, Sweep time: Auto, Sweep mode: single
- (3) Detector mode: Peak, Indication mode: Max hold

14.3 TEST SETUP BLOCK DIAGRAM



14.4 TEST RESULT

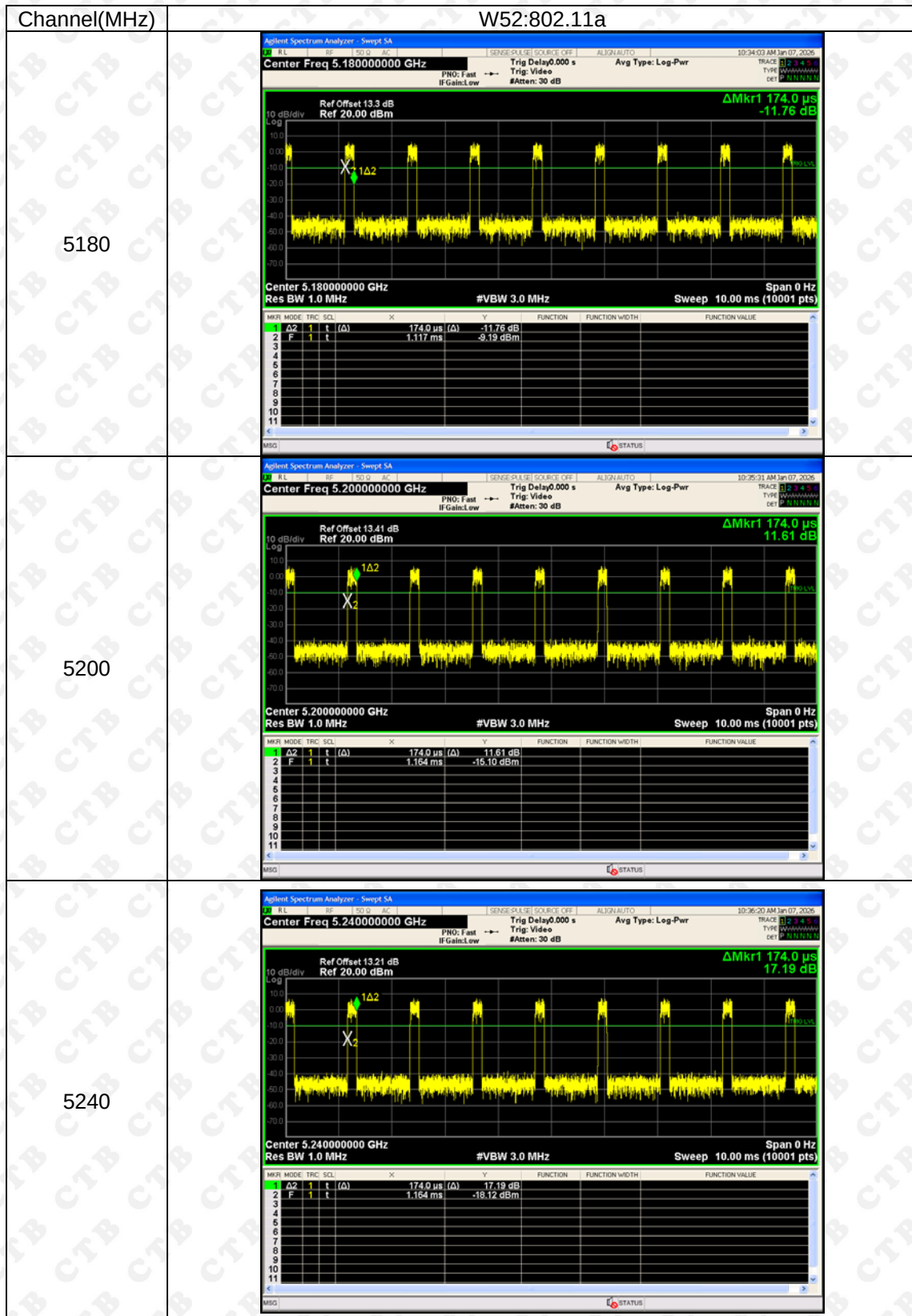
W52

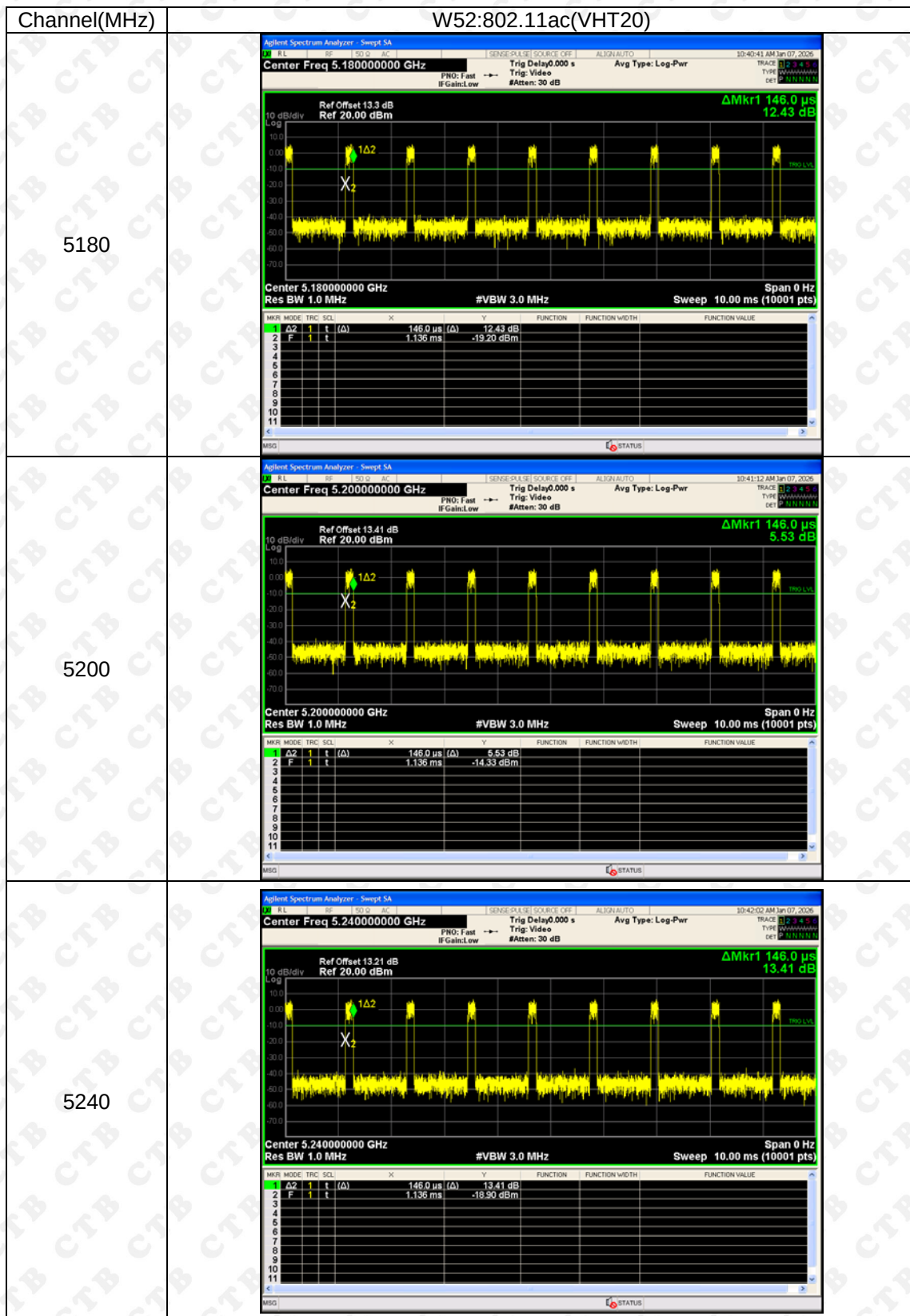
Normal Voltage			
Mode	Channel (MHz)	Read Level(ms)	Limit (ms)
802.11a	LCH	0.174	8ms or less
	MCH	0.174	
	HCH	0.174	
802.11ac(VHT20)	LCH	0.146	
	MCH	0.146	
	HCH	0.146	
802.11ac(VHT40)	LCH	0.098	
	MCH	/	
	HCH	0.098	
802.11ac(VHT80)	LCH	/	
	MCH	0.066	
	HCH	/	
802.11ax(HE20)	LCH	0.166	
	MCH	0.166	
	HCH	0.166	
802.11ax(HE40)	LCH	0.098	
	MCH	/	
	HCH	0.098	
802.11ax(HE80)	LCH	/	
	MCH	0.066	
	HCH	/	
802.11n(HT20)	LCH	0.162	



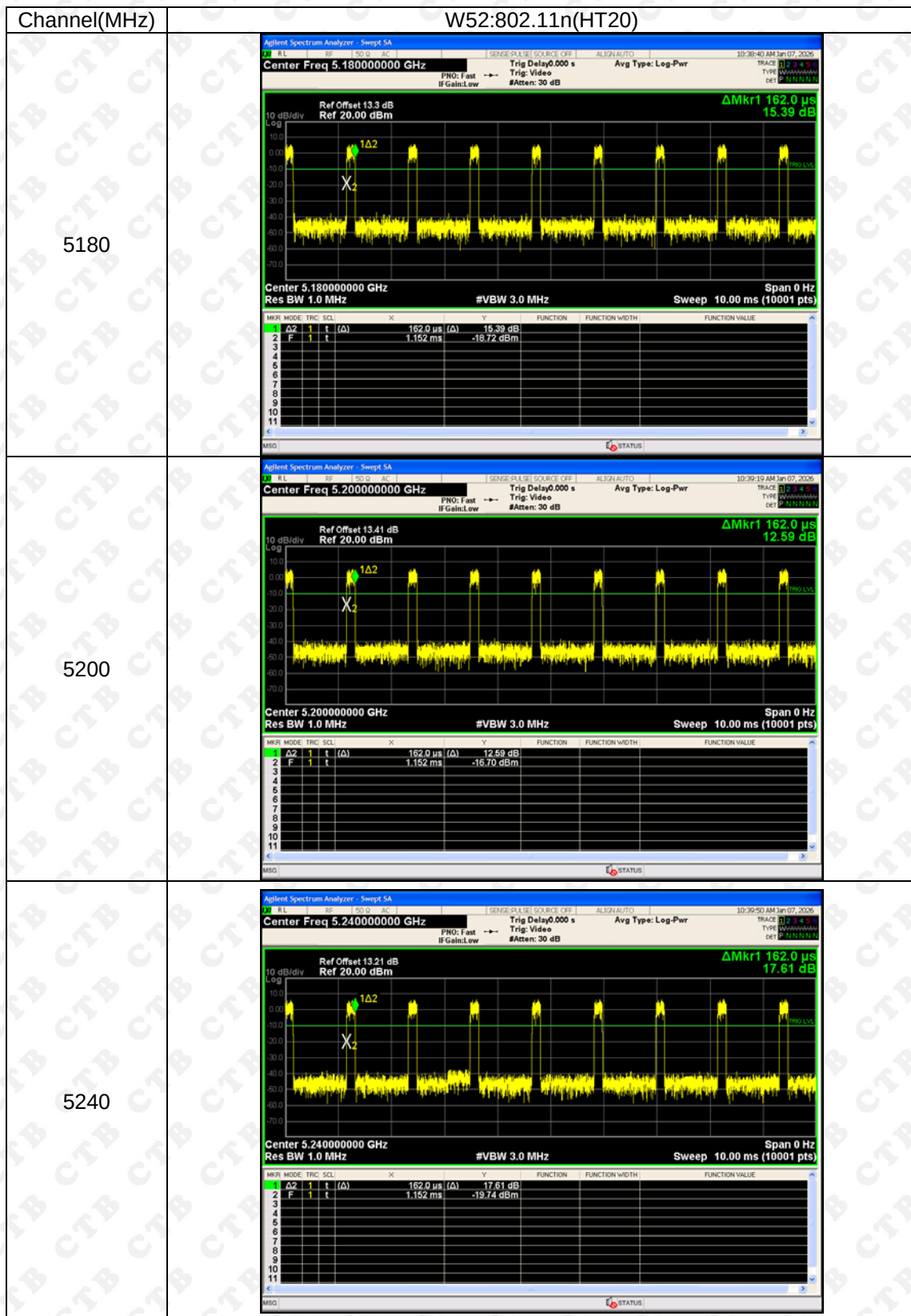
	MCH	0.162	
	HCH	0.162	
802.11n(HT40)	LCH	0.098	
	MCH	/	
	HCH	0.098	

Test graph

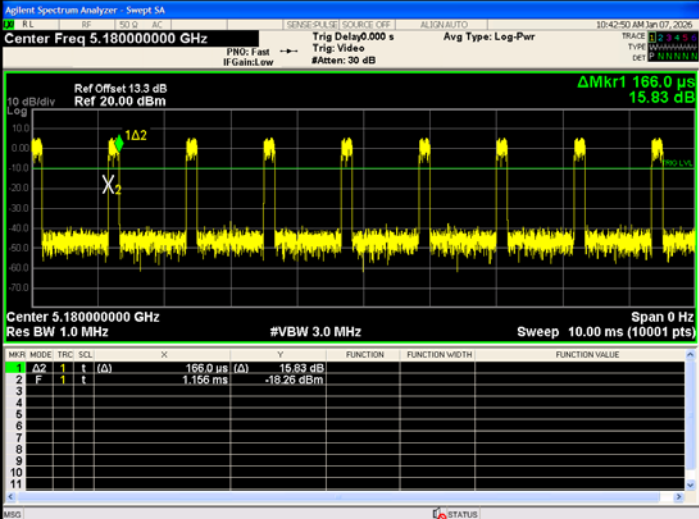
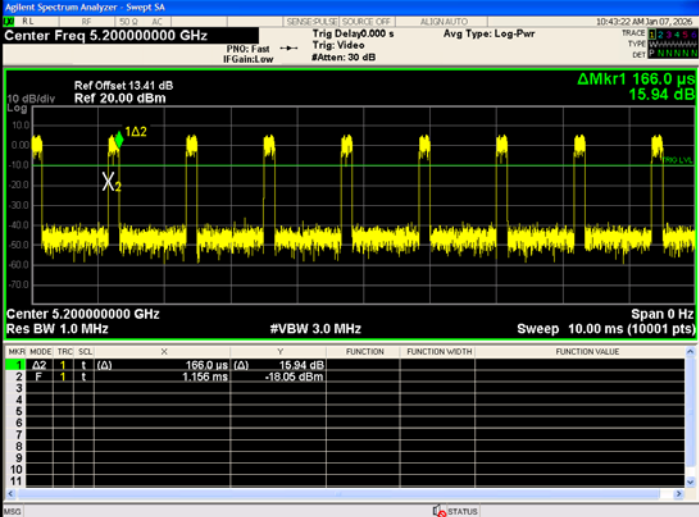
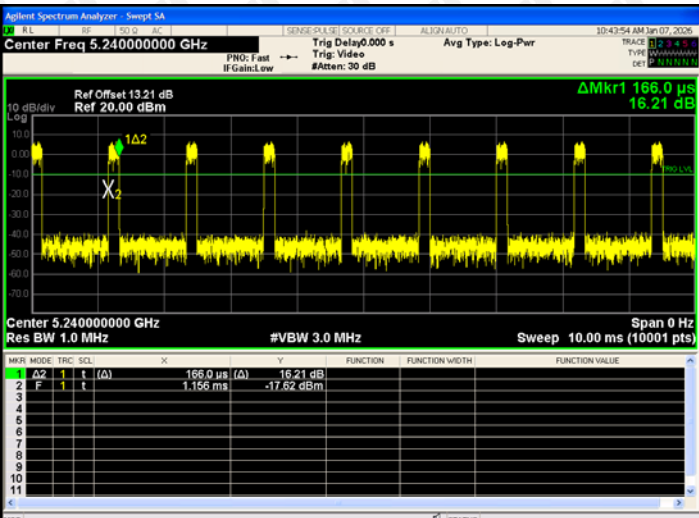








Channel(MHz)	W52:802.11n(HT40)																																																																																																												
5190	Agilent Spectrum Analyzer - Sweep 14 Center Freq 5.190000000 GHz Ref Offset 13.38 dB Ref 20.00 dBm Trig Delay 0.000 s Trig: Video #Atten: 30 dB Avg Type: Log-Pwr 11:02:32 AM 3m 07, 2009 TRACE 1: 2 4 1 TYPE: WMMWMMW DET: 1.0 1.0 1.0 10 dB/div Log ΔMkr1 98.00 μs 8.90 dB X2 1Δ2 Center 5.190000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) Span 0 Hz <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>98.00 μs (A)</td><td>8.90 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>1.023 ms</td><td>-14.43 dBm</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> MSG STATUS	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	98.00 μs (A)	8.90 dB			2	F	1	t		1.023 ms	-14.43 dBm			3									4									5									6									7									8									9									10									11								
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5230	Agilent Spectrum Analyzer - Sweep 14 Center Freq 5.230000000 GHz Ref Offset 13.22 dB Ref 20.00 dBm Trig Delay 0.000 s Trig: Video #Atten: 30 dB Avg Type: Log-Pwr 11:05:34 AM 3m 07, 2009 TRACE 1: 2 4 1 TYPE: WMMWMMW DET: 1.0 1.0 1.0 10 dB/div Log ΔMkr1 98.00 μs 18.00 dB X2 1Δ2 Center 5.230000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) Span 0 Hz <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>A2</td><td>1</td><td>t</td><td>(A)</td><td>98.00 μs (A)</td><td>18.00 dB</td><td></td><td></td></tr><tr><td>2</td><td>F</td><td>1</td><td>t</td><td></td><td>1.049 ms</td><td>-20.41 dBm</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> MSG STATUS	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	t	(A)	98.00 μs (A)	18.00 dB			2	F	1	t		1.049 ms	-20.41 dBm			3									4									5									6									7									8									9									10									11								
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Channel(MHz)	W52:802.11ax(HE20)
5180	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.180000000 GHz Ref Offset 13.3 dB Ref 20.00 dBm Trig Delay 0.000 s Avg Type: Log-Pwr Trig: Video #Atten: 30 dB Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz Res BW 1.0 MHz 162.0 μs (A) 15.83 dB 1.156 ms -18.26 dBm MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 A2 1 t (A) 162.0 μs (A) 15.83 dB 2 F 1 t 1.156 ms -18.26 dBm
5200	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.200000000 GHz Ref Offset 13.41 dB Ref 20.00 dBm Trig Delay 0.000 s Avg Type: Log-Pwr Trig: Video #Atten: 30 dB Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz Res BW 1.0 MHz 162.0 μs (A) 15.94 dB 1.156 ms -18.06 dBm MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 A2 1 t (A) 162.0 μs (A) 15.94 dB 2 F 1 t 1.156 ms -18.06 dBm
5240	 Agilent Spectrum Analyzer - Sweep SA Center Freq 5.240000000 GHz Ref Offset 13.21 dB Ref 20.00 dBm Trig Delay 0.000 s Avg Type: Log-Pwr Trig: Video #Atten: 30 dB Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz Res BW 1.0 MHz 166.0 μs (A) 16.21 dB 1.156 ms -17.62 dBm MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 A2 1 t (A) 166.0 μs (A) 16.21 dB 2 F 1 t 1.156 ms -17.62 dBm



15 Secondary Radiated Emitted Power

15.1 LIMIT

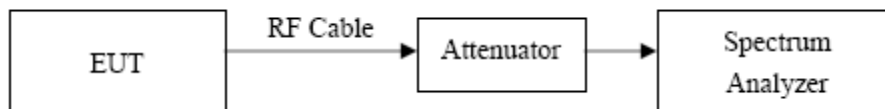
According to Item 19-3 of Article 2 Paragraph 1. The receiver spurious emissions shall not exceed the following limit:

- (1) Below 1GHz : 4nW/100kHz or less
- (2) 1GHz or more : 20nW/MHz or more

15.2 TEST PROCEDURE

- (1) A spectrum In case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (5) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (6) Repeat above procedures until all frequency measured was complete.

15.3 TEST SETUP BLOCK DIAGRAM



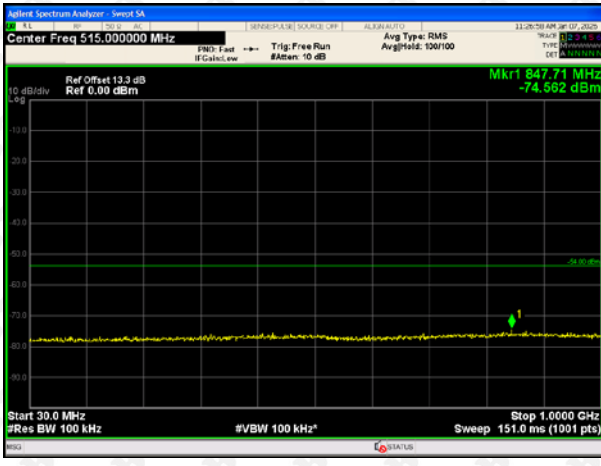
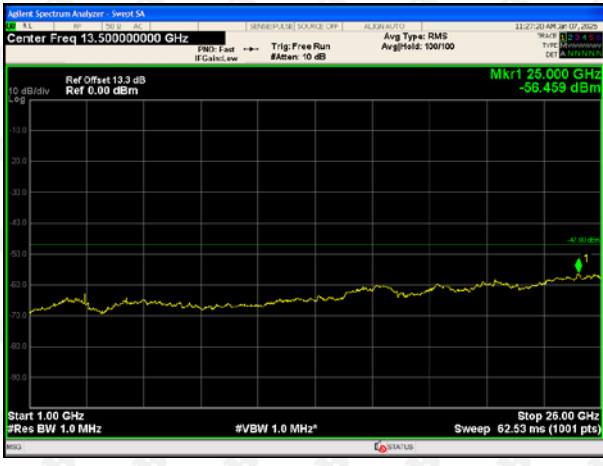
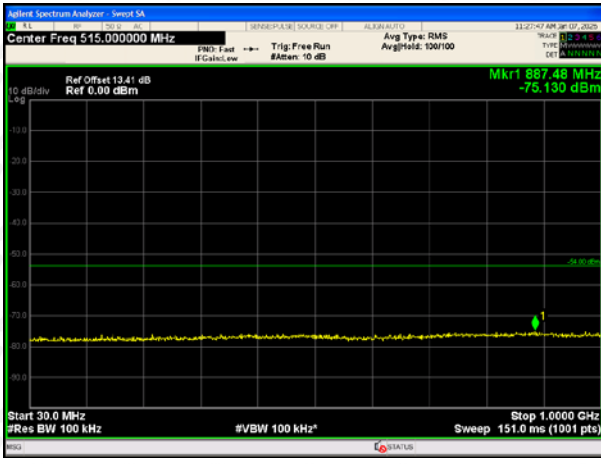
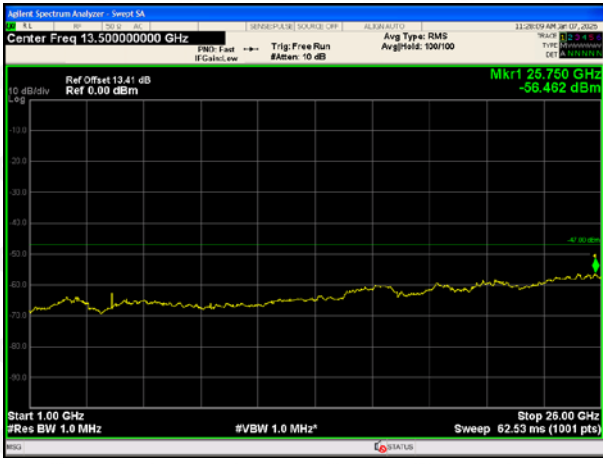
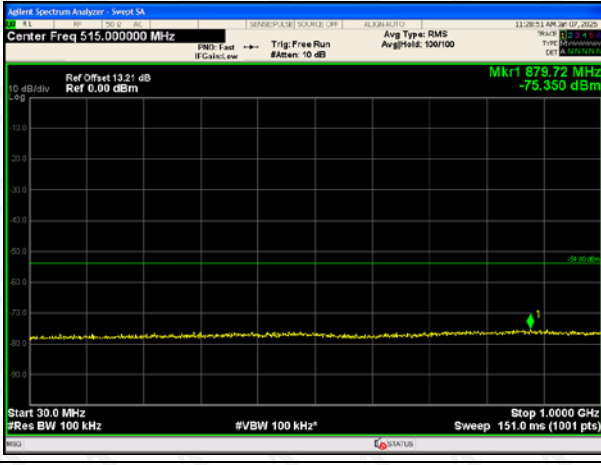
15.4 TEST RESULT
W52

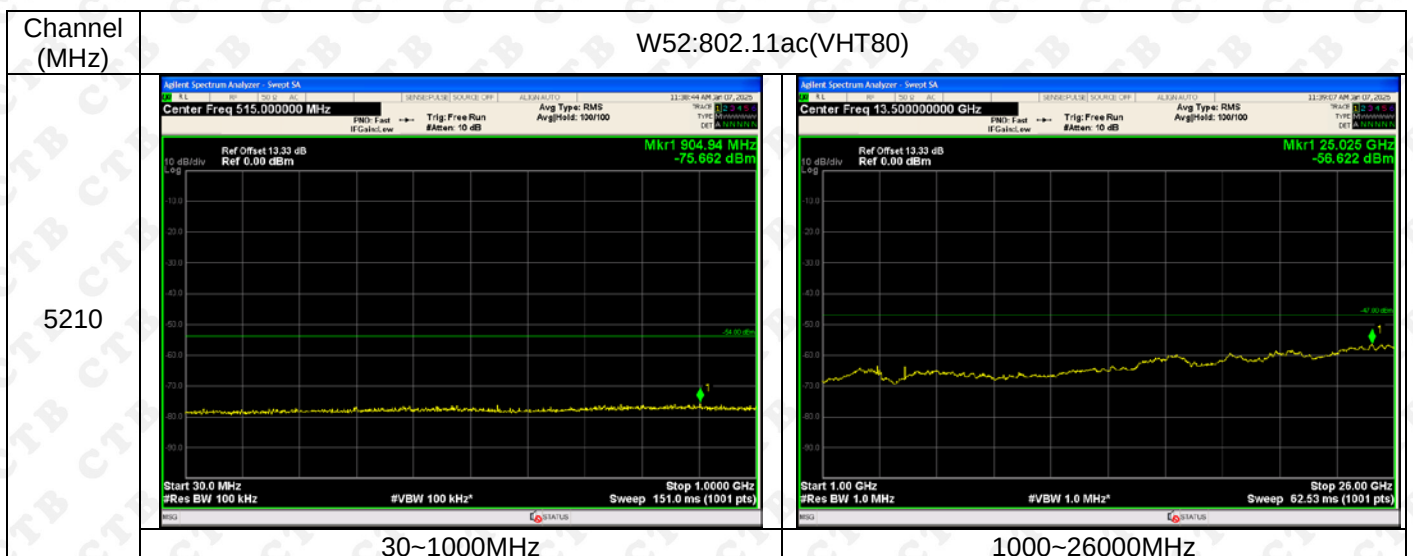
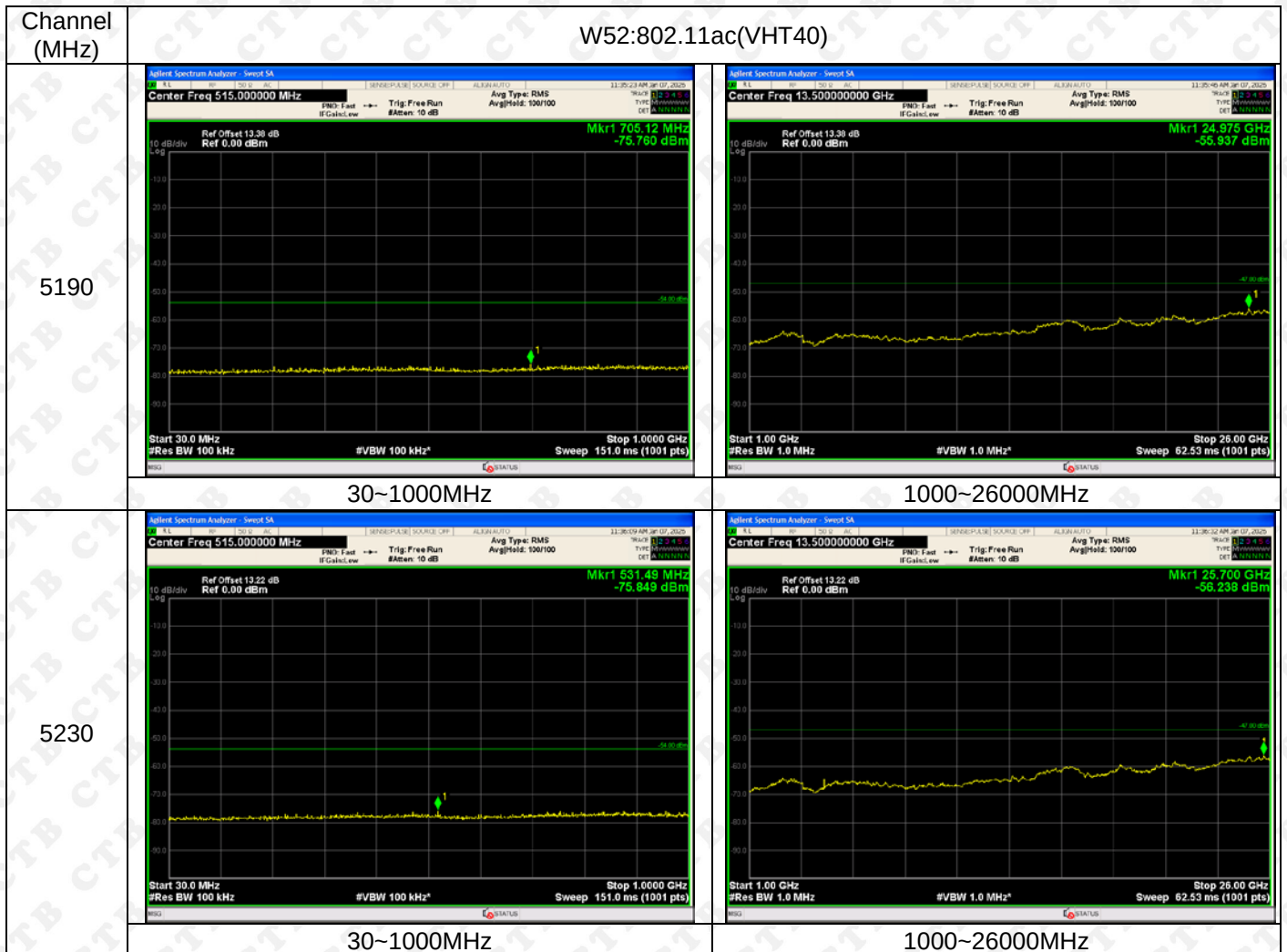
Normal Voltage						
Mode	Channel (MHz)	Frequency(MHz)	Mkr(MHz)	Test result(dBm)	Limit (dBm)	Result
802.11a	LCH	30~1000	911.73	-75.17	-54	Pass
		1000~26000	25000	-56.3	-47	Pass
	MCH	30~1000	948.59	-74.94	-54	Pass
		1000~26000	25000	-56.21	-47	Pass
	HCH	30~1000	889.42	-75.31	-54	Pass
		1000~26000	25000	-56.45	-47	Pass
802.11ac(VHT20)	LCH	30~1000	847.71	-74.56	-54	Pass
		1000~26000	25000	-56.46	-47	Pass
	MCH	30~1000	887.48	-75.13	-54	Pass
		1000~26000	25750	-56.46	-47	Pass
	HCH	30~1000	879.72	-75.35	-54	Pass
		1000~26000	25725	-56.57	-47	Pass
802.11ac(VHT40)	LCH	30~1000	705.12	-75.76	-54	Pass
		1000~26000	24975	-55.94	-47	Pass
	HCH	30~1000	531.49	-75.85	-54	Pass
		1000~26000	25700	-56.24	-47	Pass
802.11ac(VHT80)	MCH	30~1000	904.94	-75.66	-54	Pass
		1000~26000	25025	-56.62	-47	Pass
802.11ax(HE20)	LCH	30~1000	999.03	-75.31	-54	Pass
		1000~26000	25000	-56.51	-47	Pass
	MCH	30~1000	999.03	-75.2	-54	Pass
		1000~26000	25025	-56.4	-47	Pass
	HCH	30~1000	915.61	-75.24	-54	Pass
		1000~26000	24975	-56.86	-47	Pass
802.11ax(VHE40)	LCH	30~1000	794.36	-75.62	-54	Pass
		1000~26000	24975	-56.36	-47	Pass
	HCH	30~1000	850.62	-75.72	-54	Pass
		1000~26000	25750	-56.41	-47	Pass
802.11ax(VHE80)	MCH	30~1000	851.59	-75.77	-54	Pass
		1000~26000	25700	-56.46	-47	Pass
802.11n(HT20)	LCH	30~1000	866.14	-74.79	-54	Pass
		1000~26000	24975	-56.19	-47	Pass
	MCH	30~1000	861.29	-74.65	-54	Pass
		1000~26000	25000	-55.89	-47	Pass
	HCH	30~1000	749.74	-75.48	-54	Pass
		1000~26000	25000	-56.34	-47	Pass



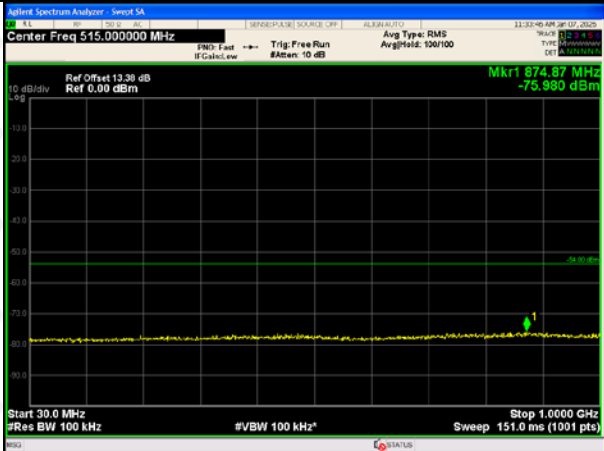
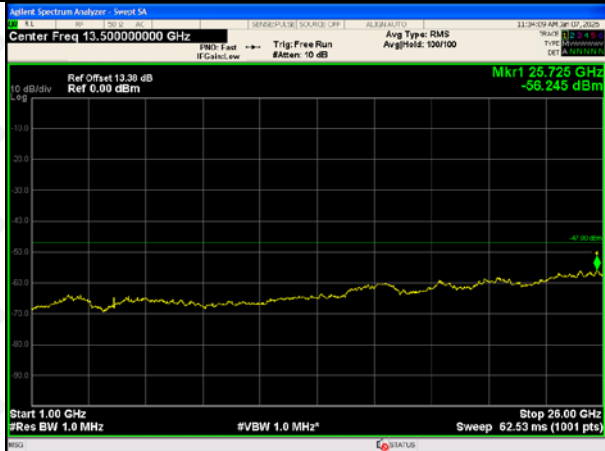
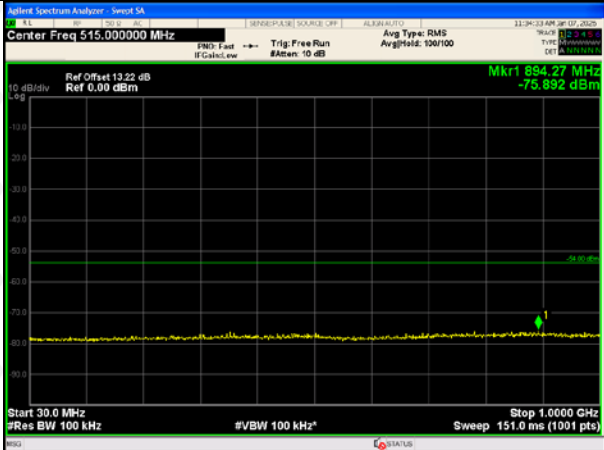
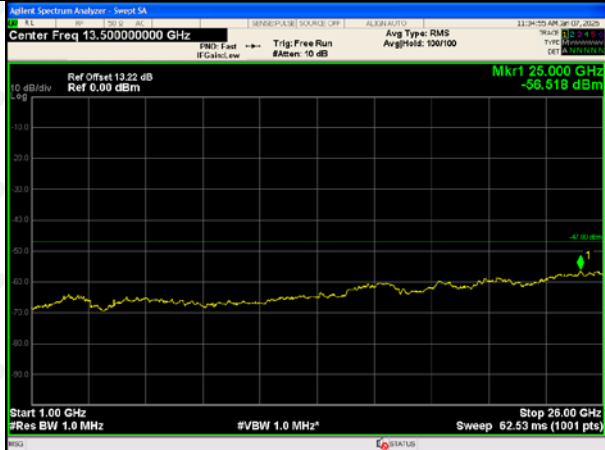
802.11n(HT40)	LCH	30~1000	874.87	-75.98	-54	Pass
		1000~26000	25725	-56.25	-47	Pass
	HCH	30~1000	894.27	-75.89	-54	Pass
		1000~26000	25000	-56.52	-47	Pass

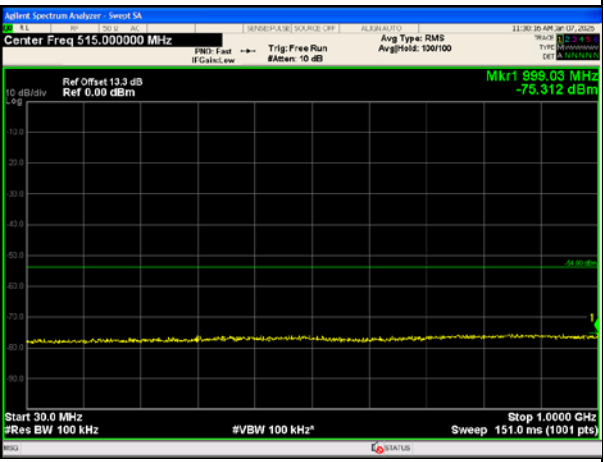
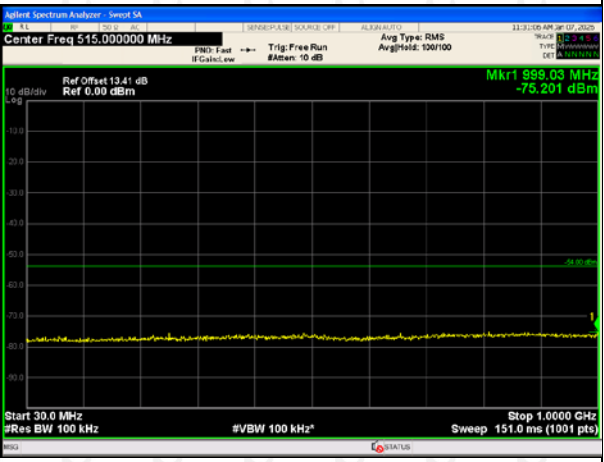
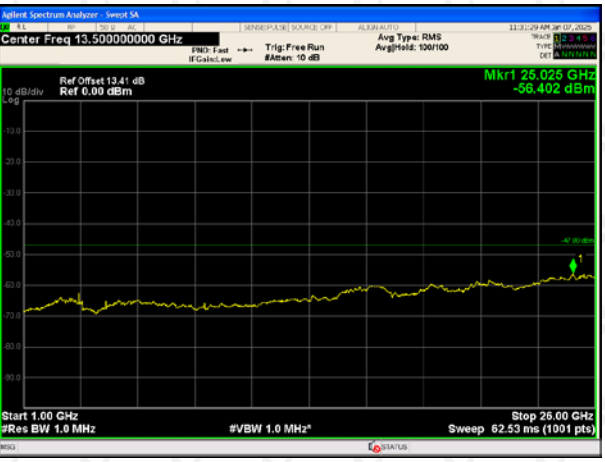
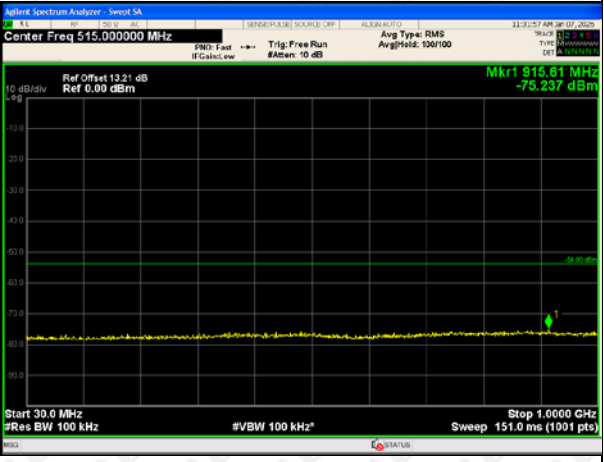
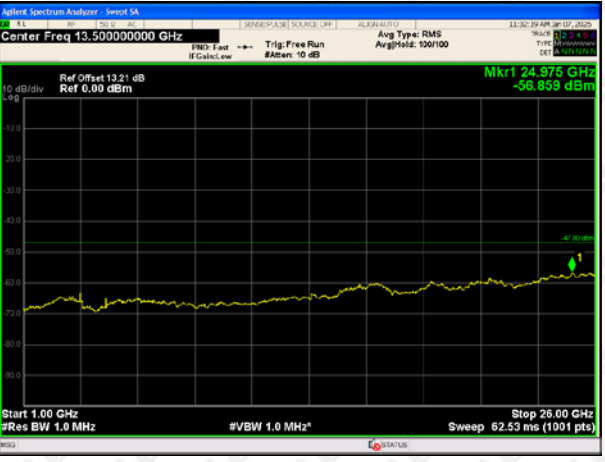
Channel(MHz)	W52:802.11a	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

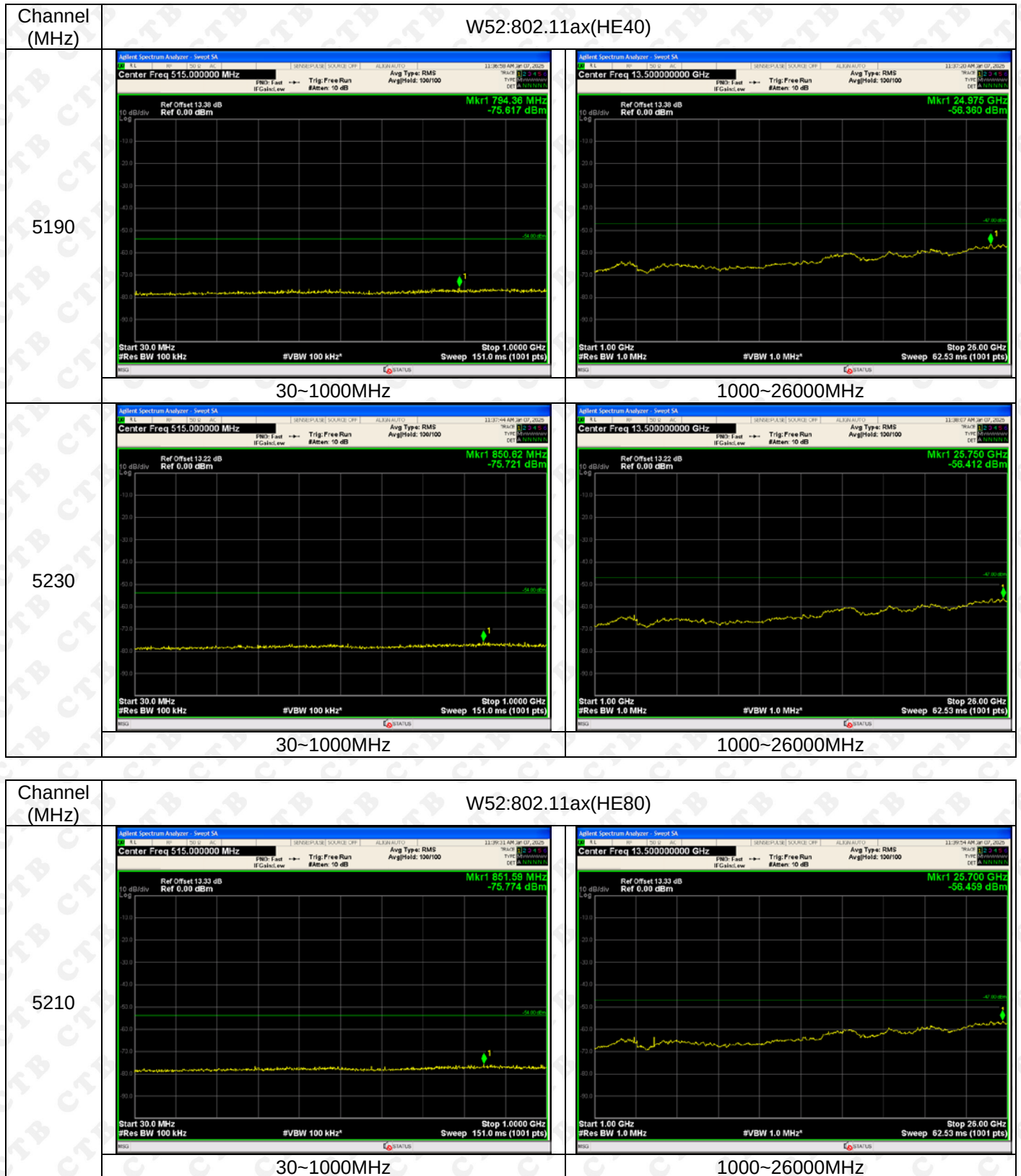
Channel(MHz)	W52:802.11ac(VHT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz



Channel(MHz)	W52:802.11n(HT20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz

Channel (MHz)	W52:802.11n(HT40)	
5190		
5230		
	30~1000MHz	1000~26000MHz

Channel(MHz)	W52:802.11ax(HE20)	
5180		
	30~1000MHz	1000~26000MHz
5200		
	30~1000MHz	1000~26000MHz
5240		
	30~1000MHz	1000~26000MHz



16 DYNAMIC FREQUENCY SELECTION (SLAVE)

16.1 Standard Applicable

Article 2 paragraph 1 item (19-3)

16.2 TEST PROCEDURE

Ordinance Regulating Radio Equipment No. 18, Article 49-20

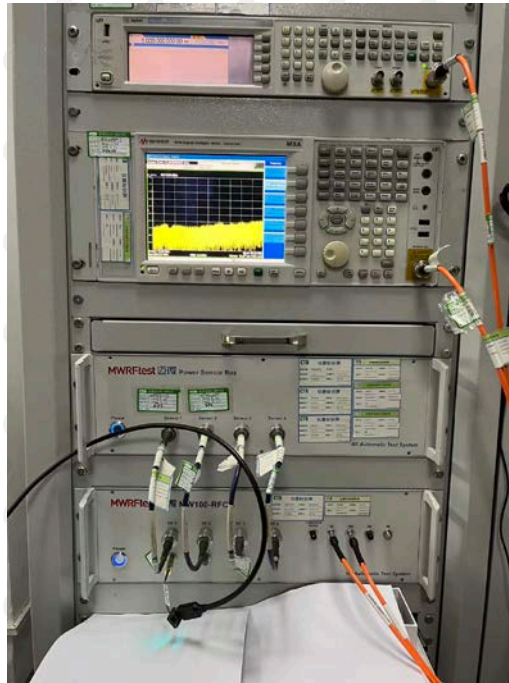
WAS/RLAN devices operating in slave mode (slave device) can be operated in a network controlled by a WAN/RLAN device operating in master mode (master device).

16.3 Summary of Test Results

Can be operated in a network controlled by a WAN/RLAN device operating in master mode.

Pass

17 EUT TEST PHOTO



***** END OF REPORT *****