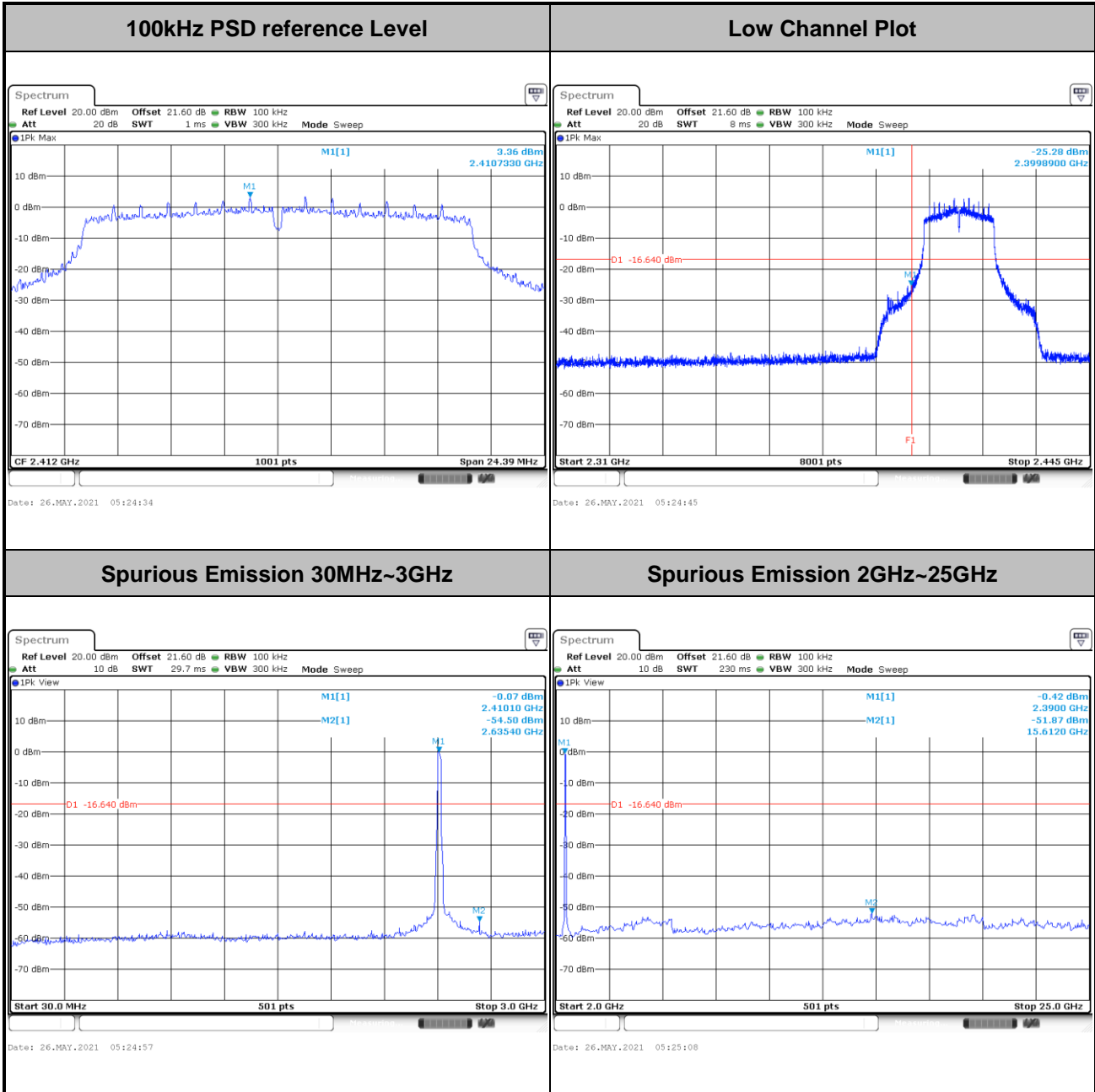


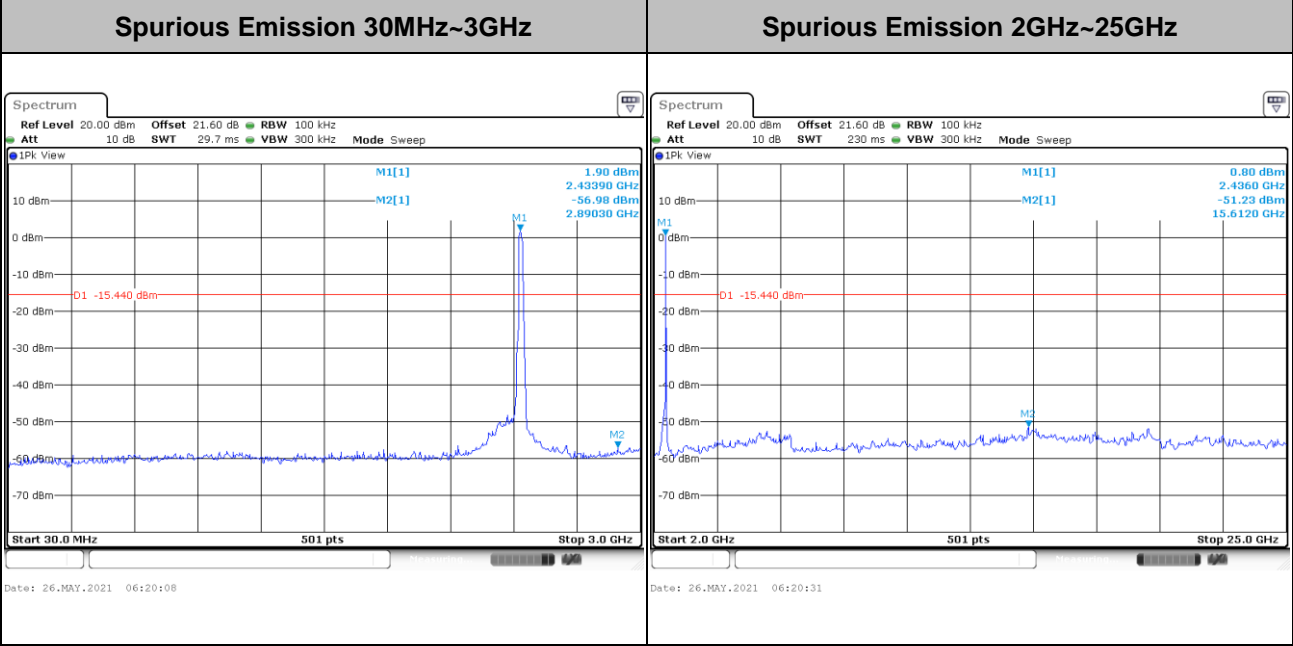
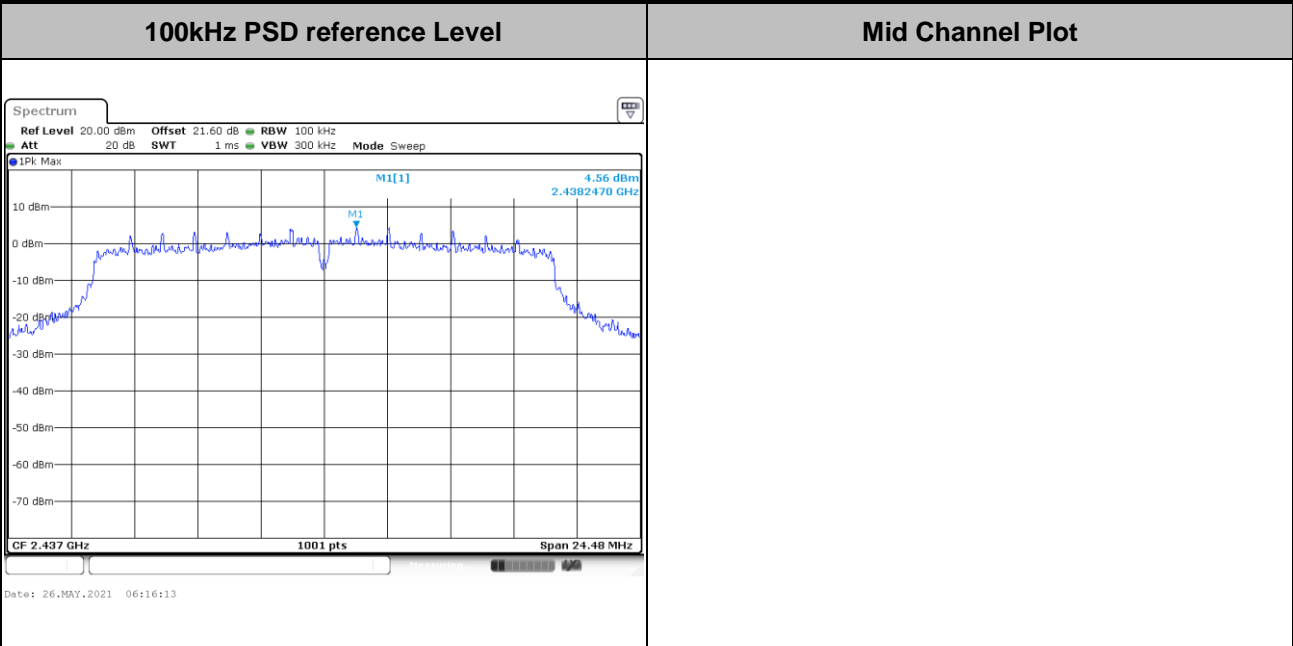


Test Mode :	802.11n HT20	Test Channel :	01
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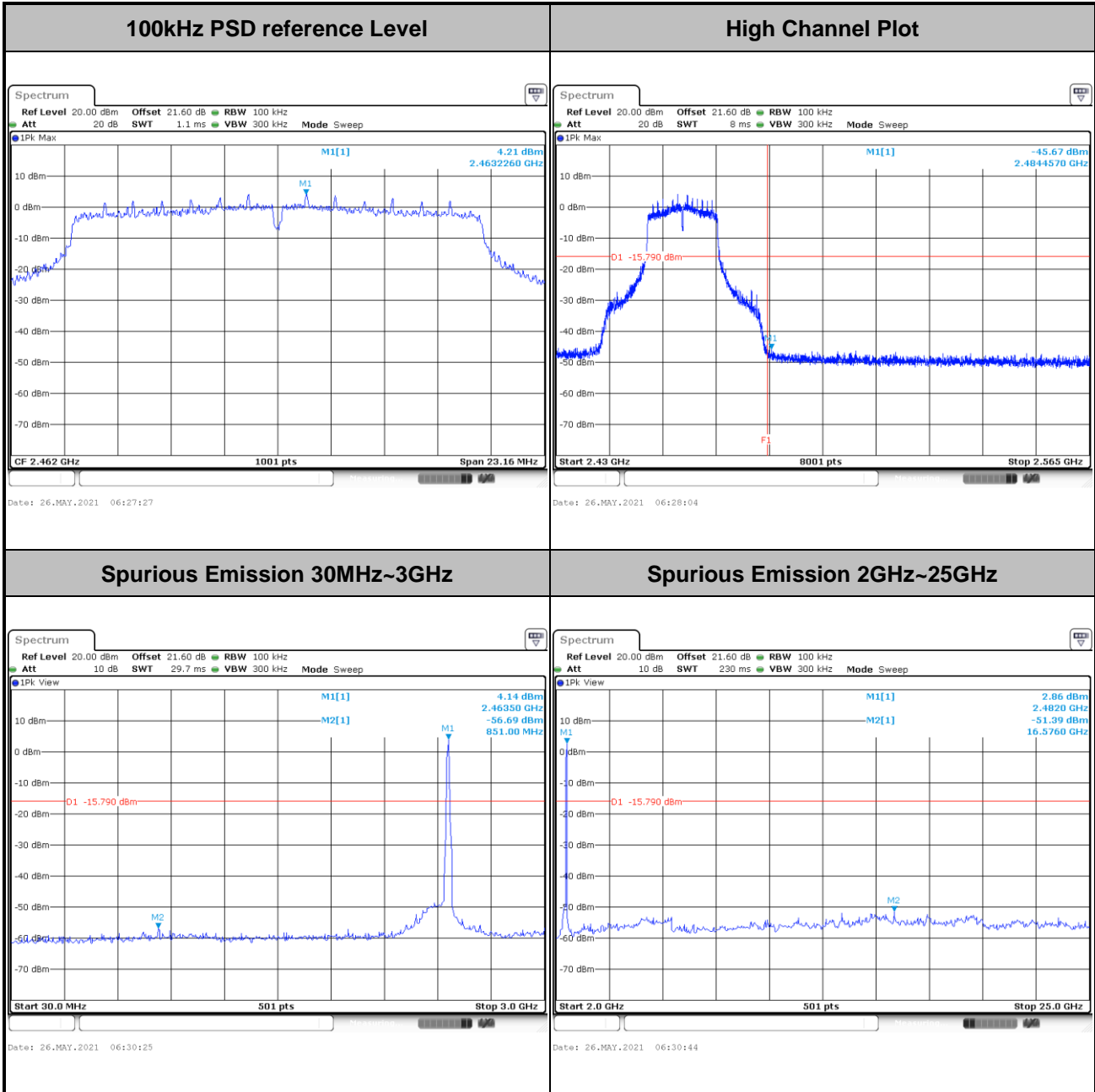


Test Mode :	802.11n HT20	Test Channel :	06
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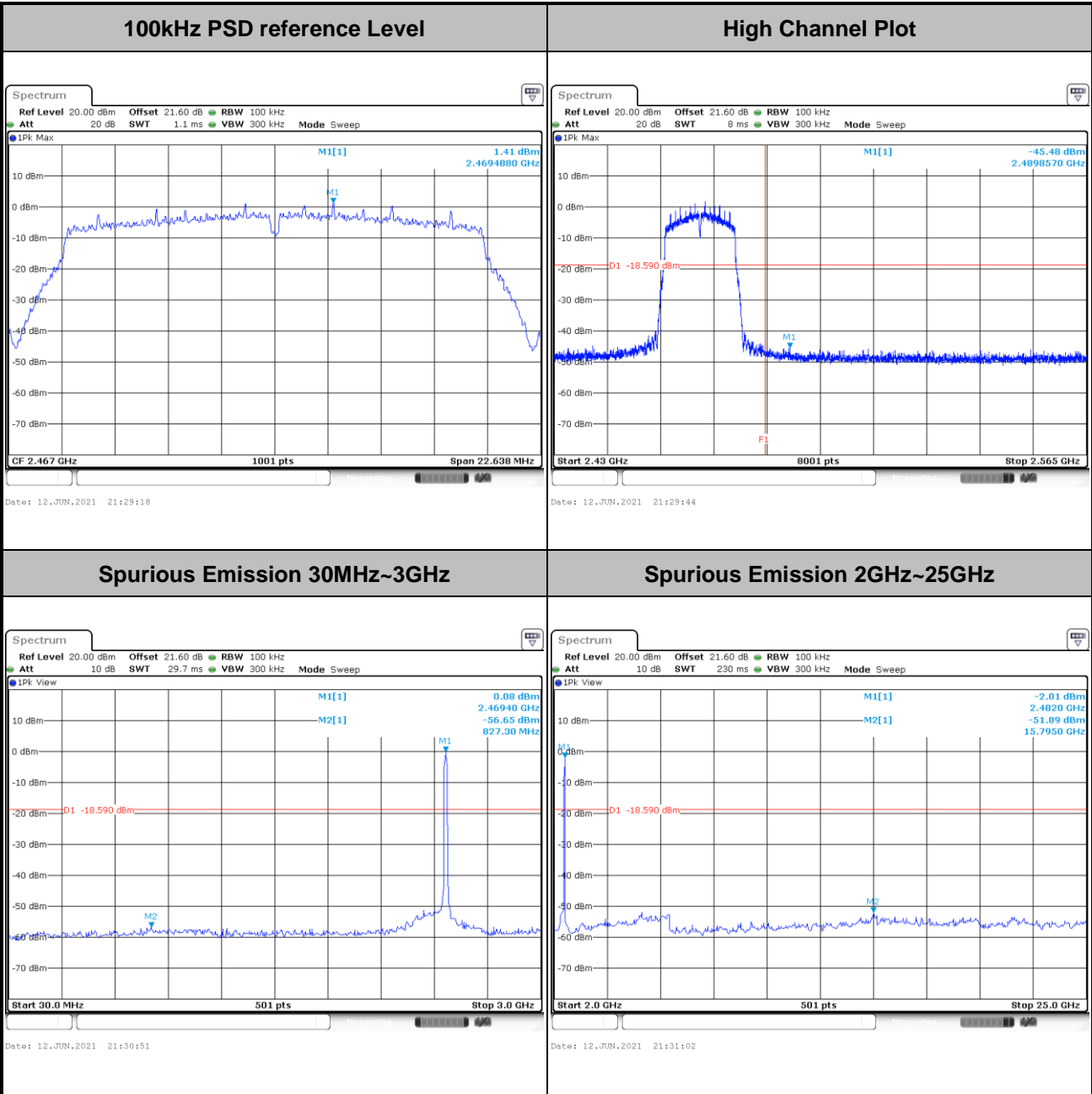


Test Mode :	802.11n HT20	Test Channel :	11
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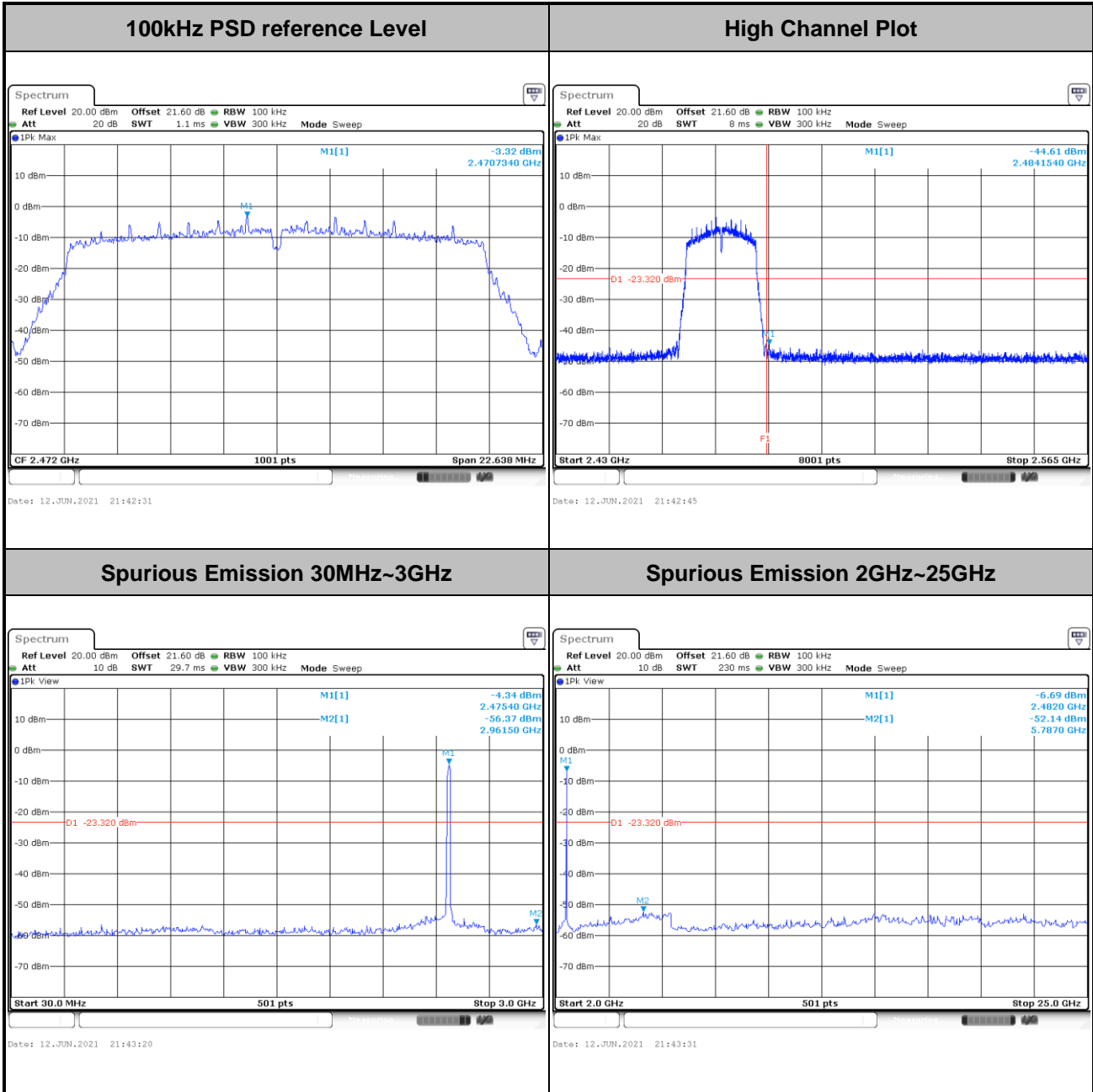


Test Mode :	802.11n HT20	Test Channel :	12
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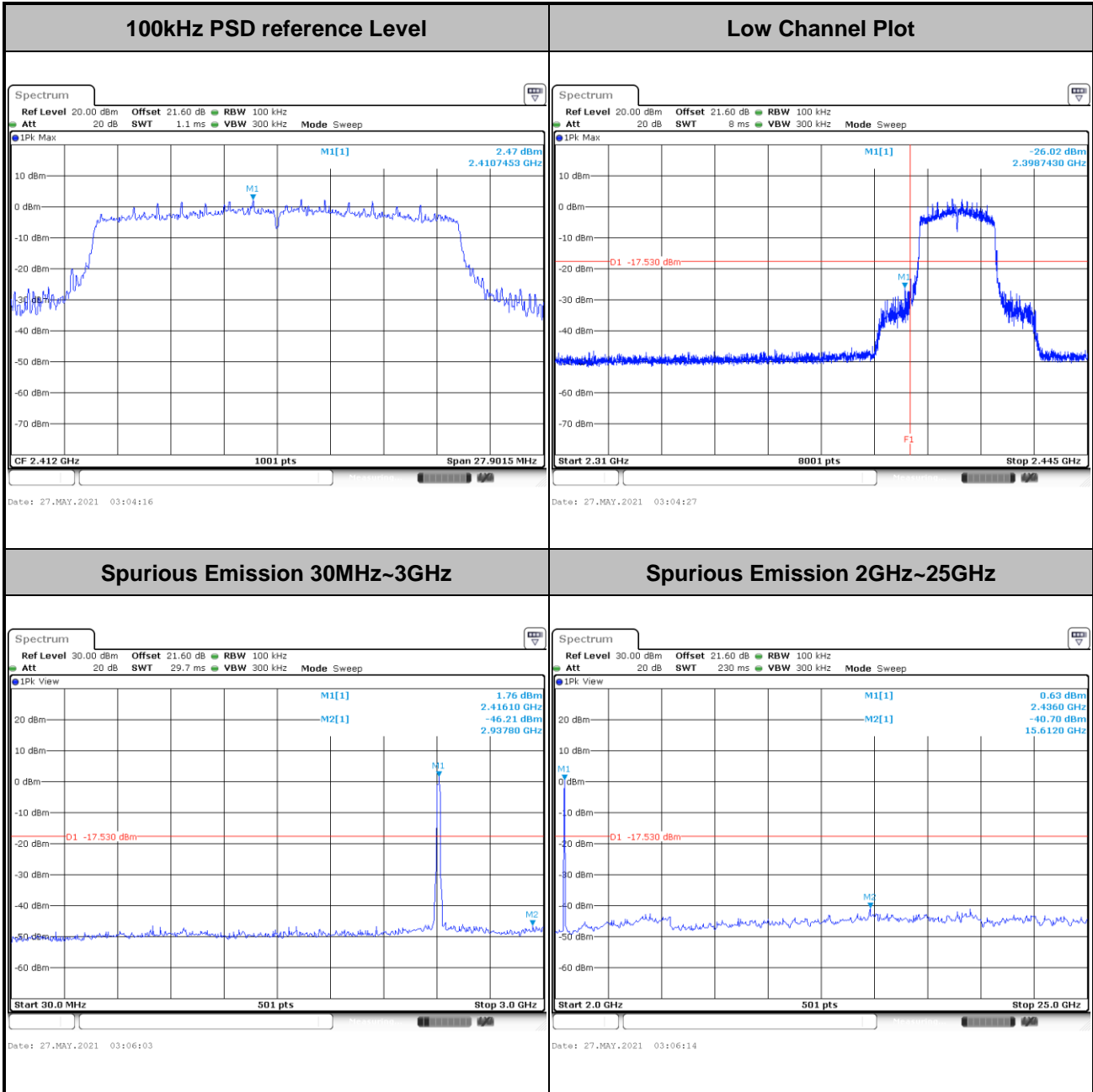


Test Mode :	802.11n HT20	Test Channel :	13
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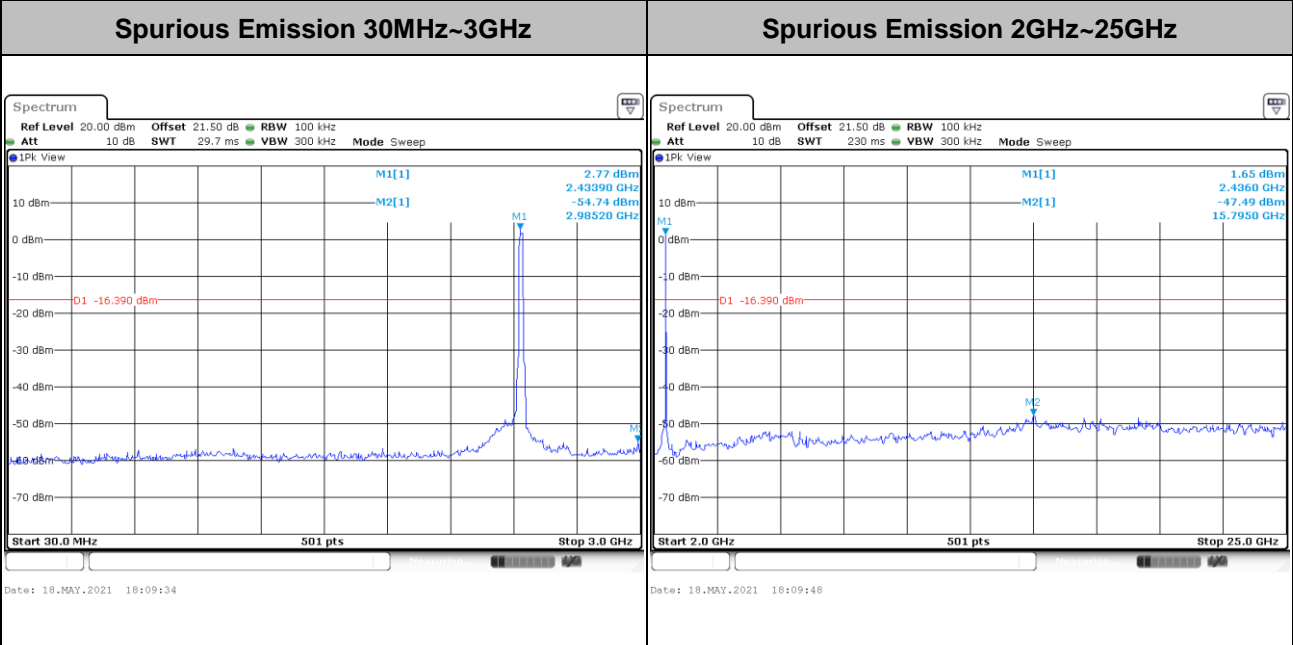
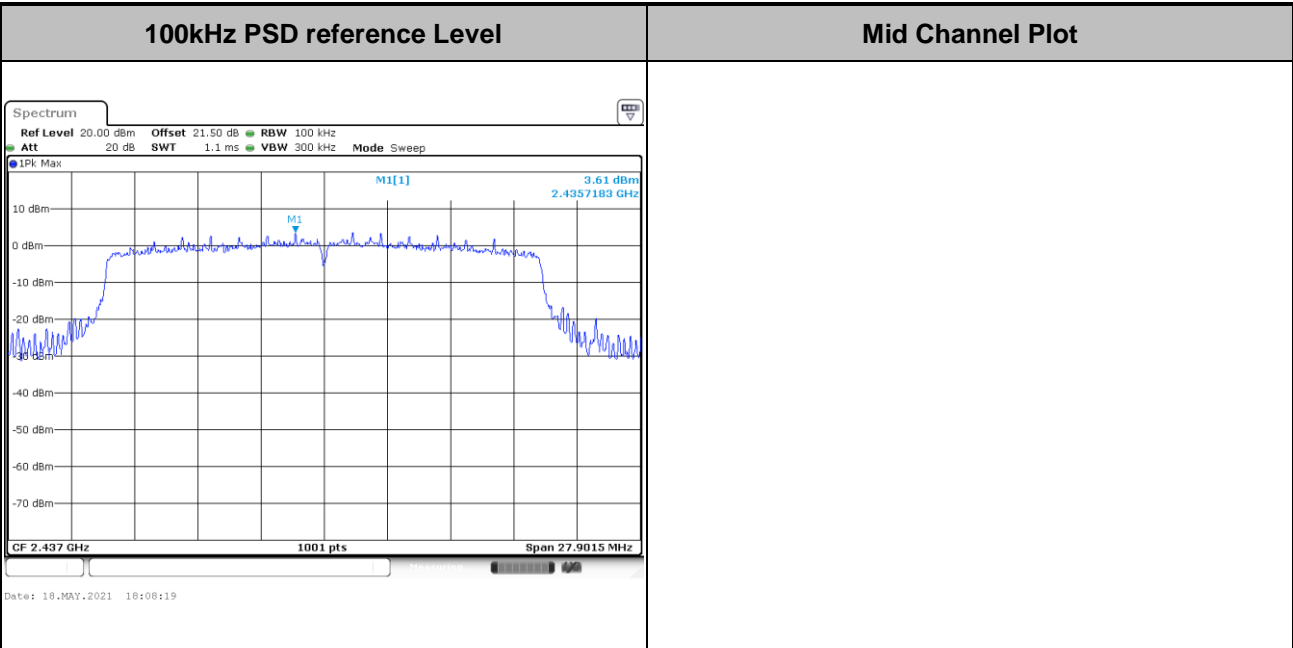


Test Mode :	802.11ax HE20	Test Channel :	01 Full RU
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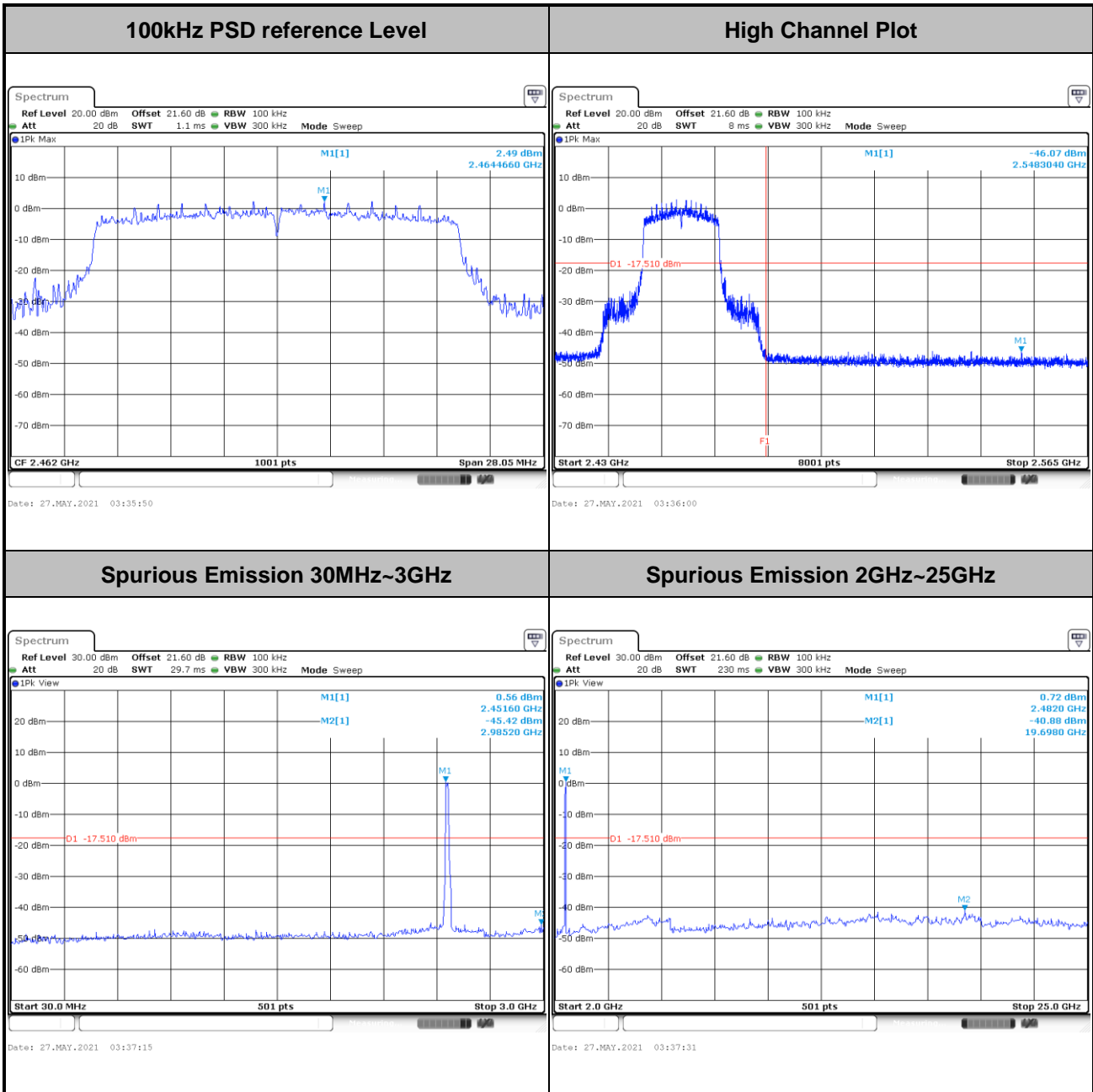


Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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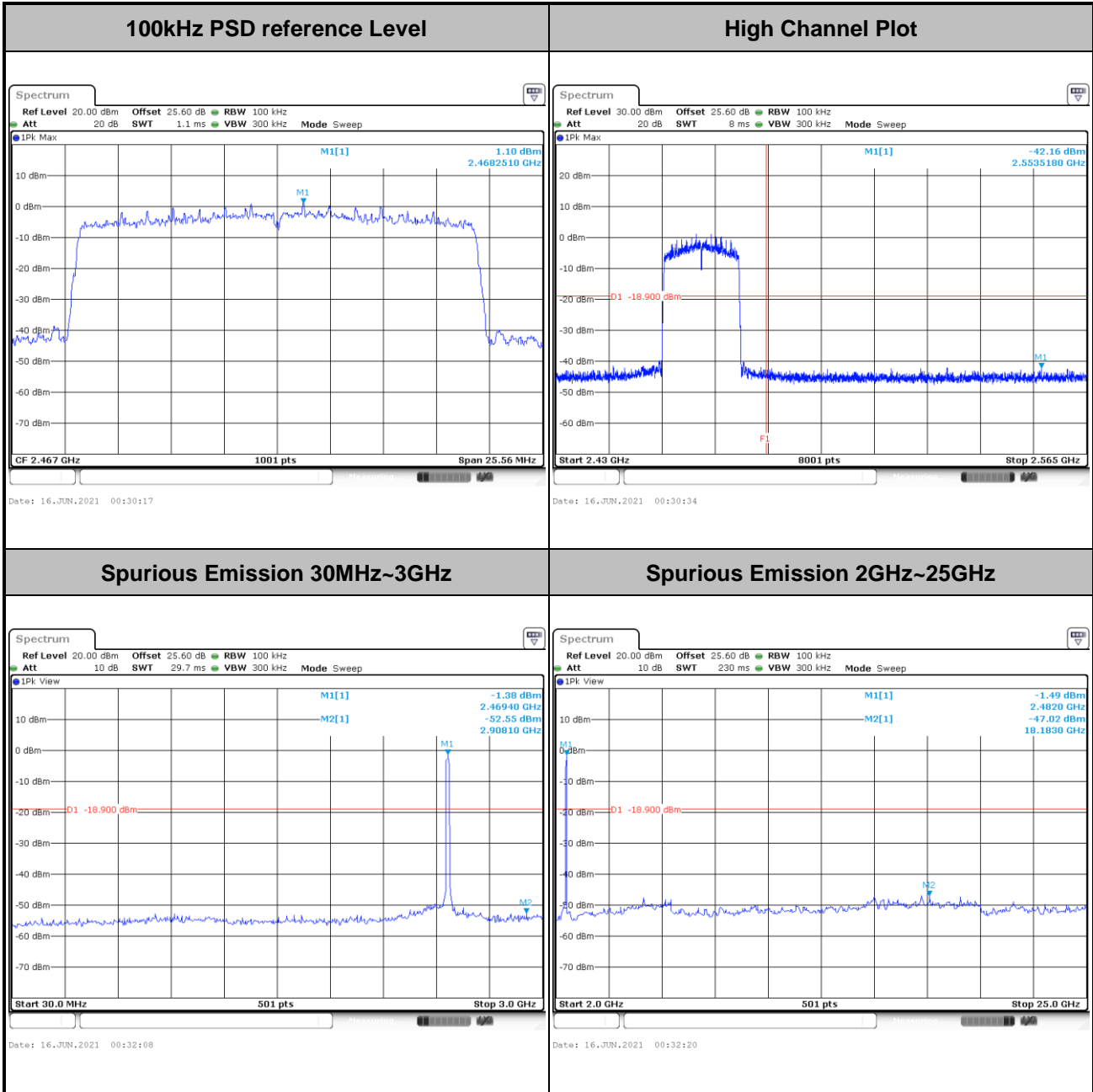


Test Mode :	802.11ax HE20	Test Channel :	11 Full RU
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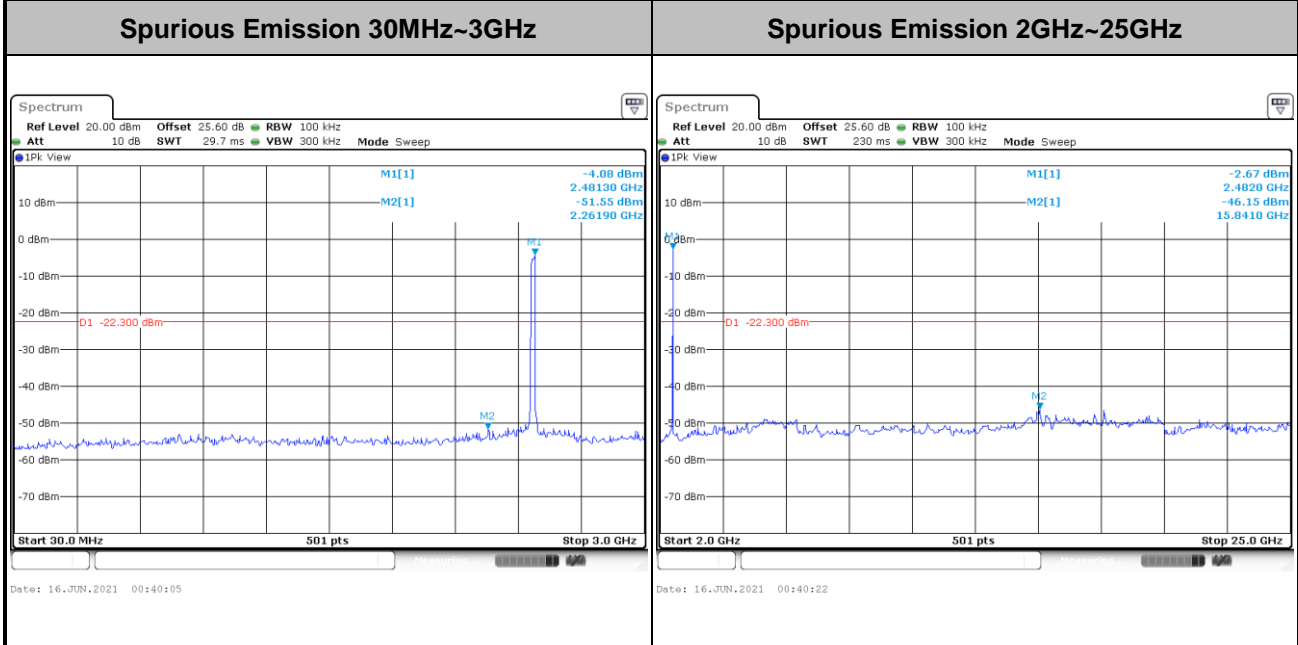
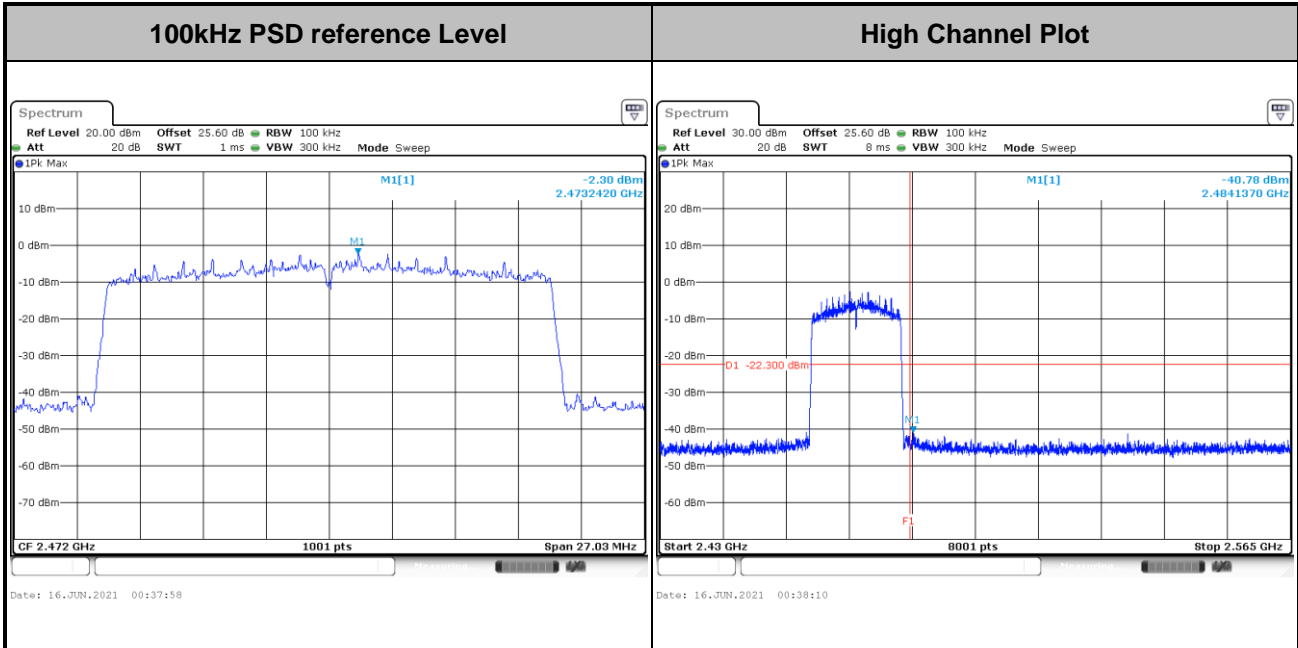


Test Mode :	802.11ax HE20	Test Channel :	12 Full RU
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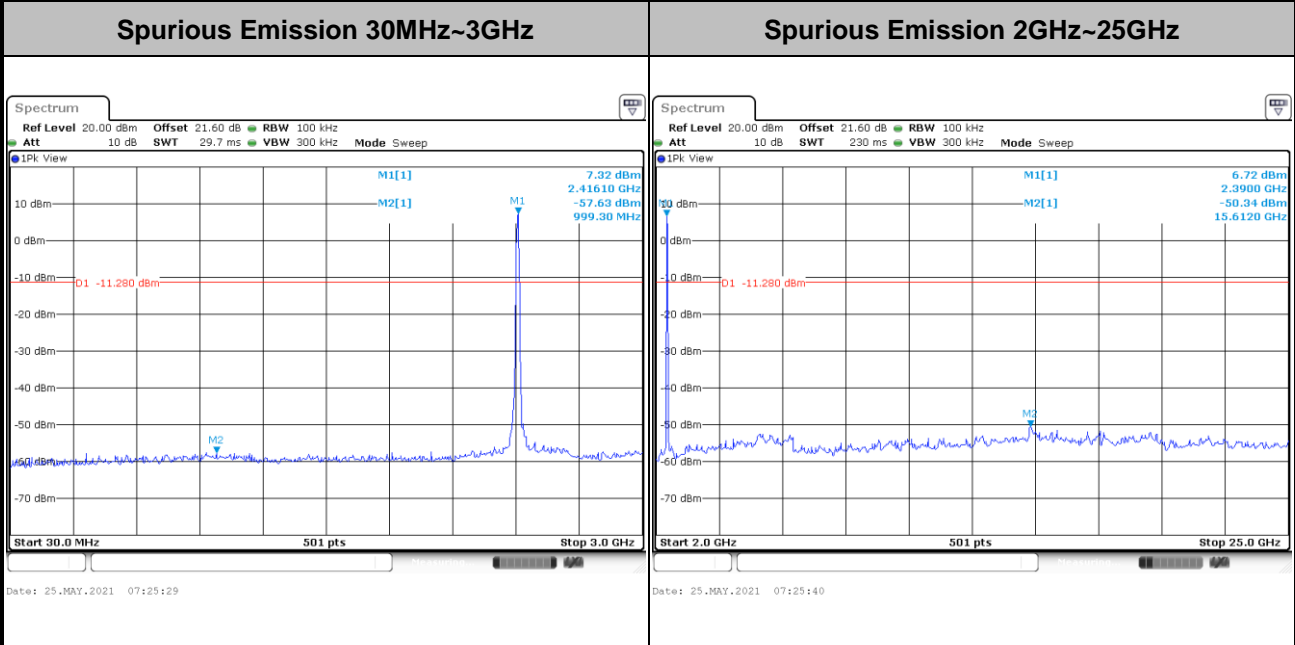
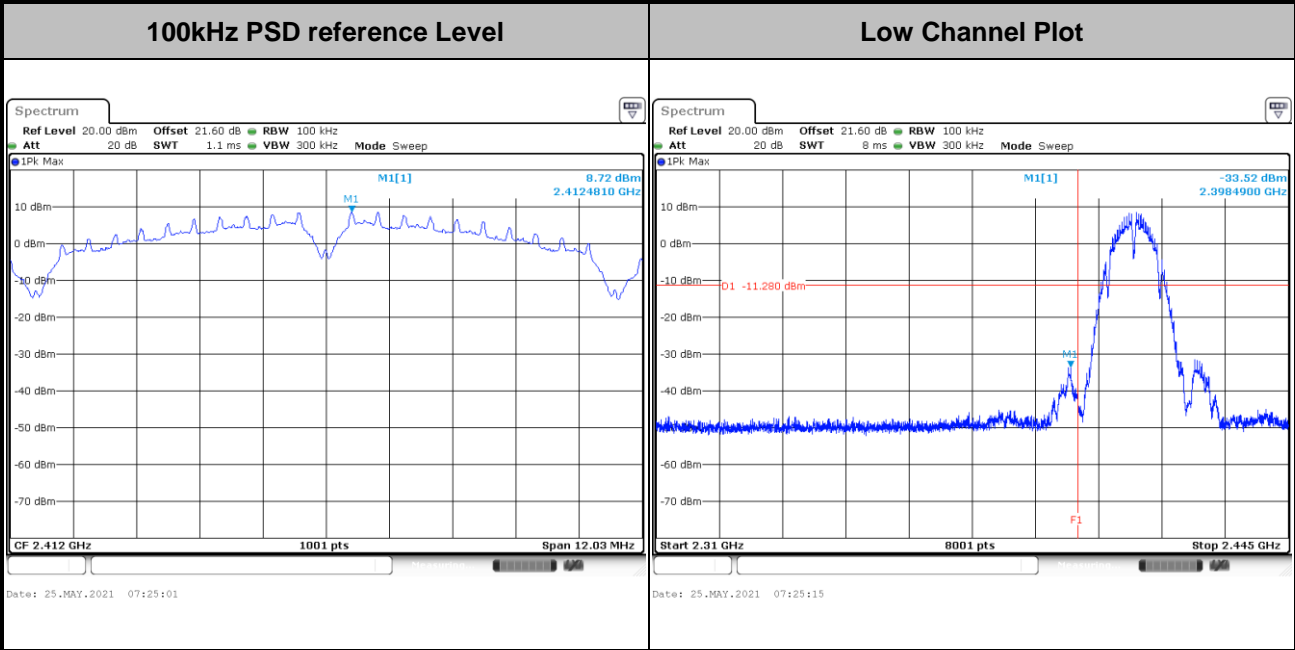
Test Mode :	802.11ax HE20	Test Channel :	13 Full Ru
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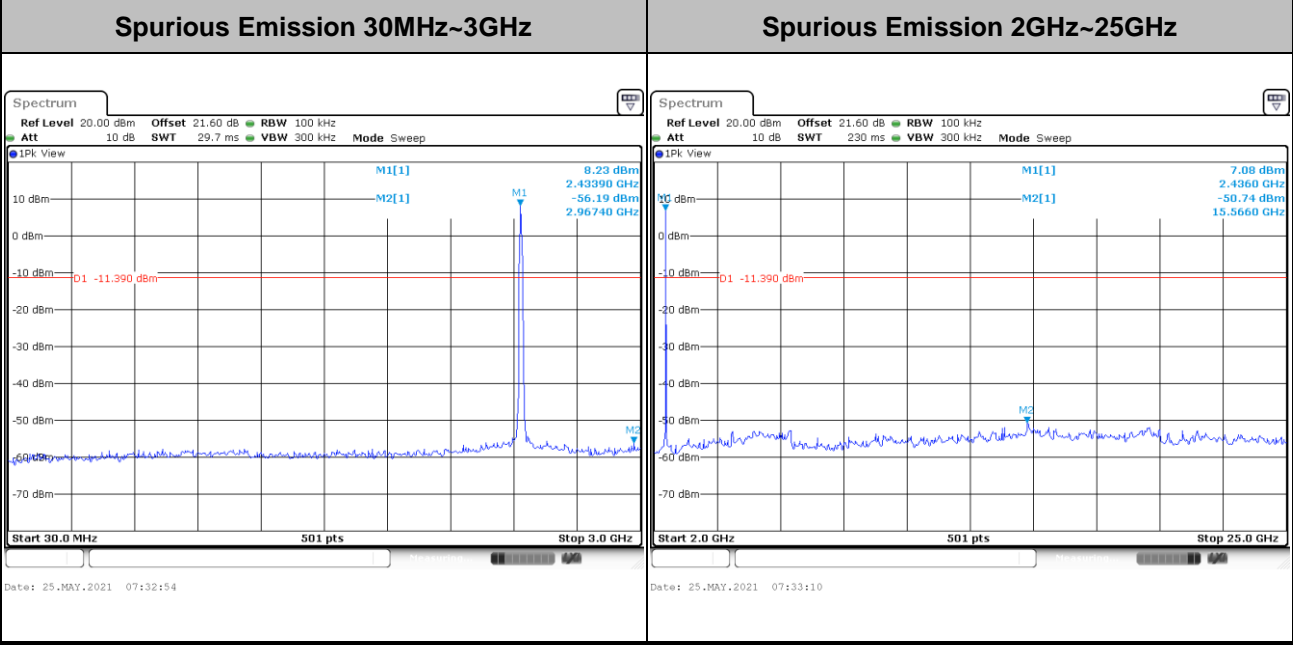
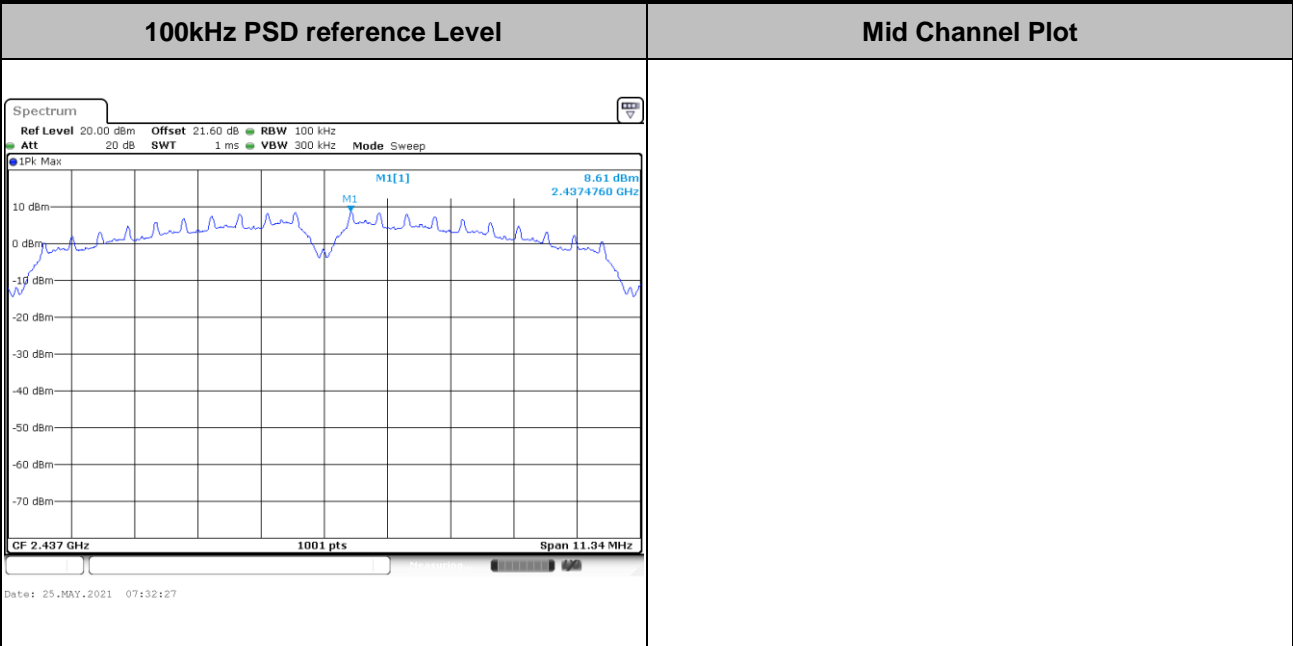
Number of TX = 2, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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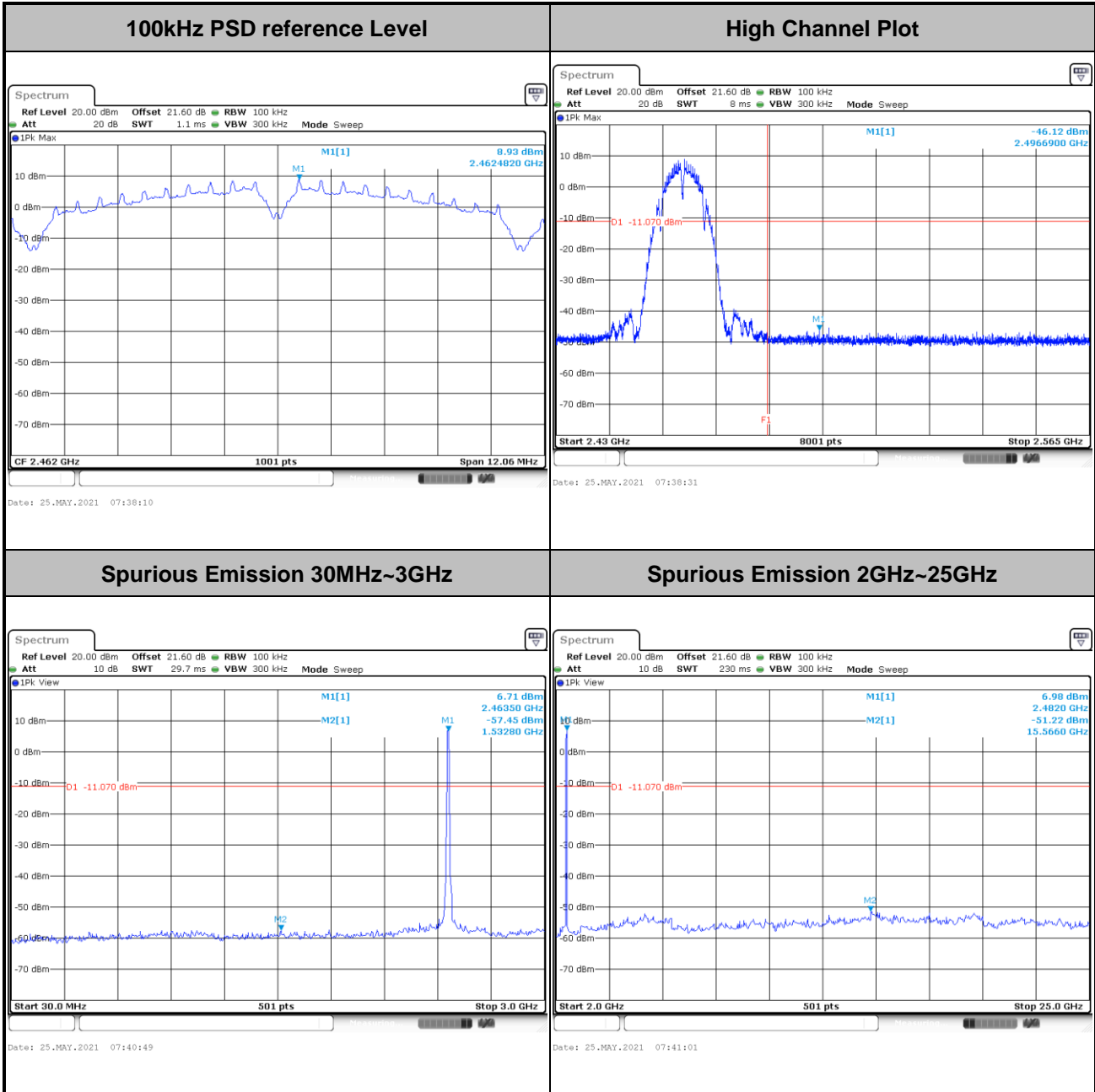


Test Mode :	802.11b	Test Channel :	06
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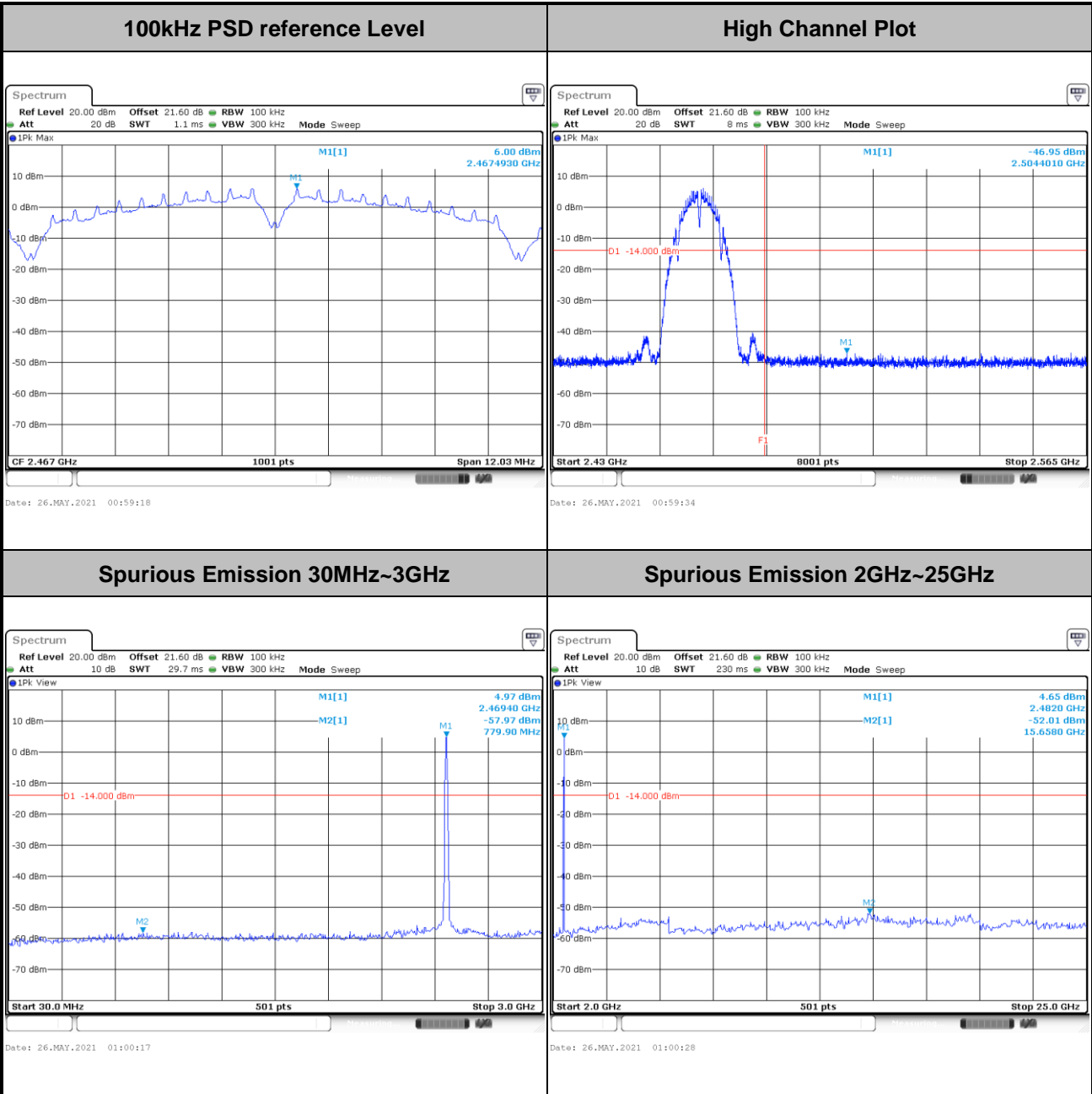


Test Mode :	802.11b	Test Channel :	11
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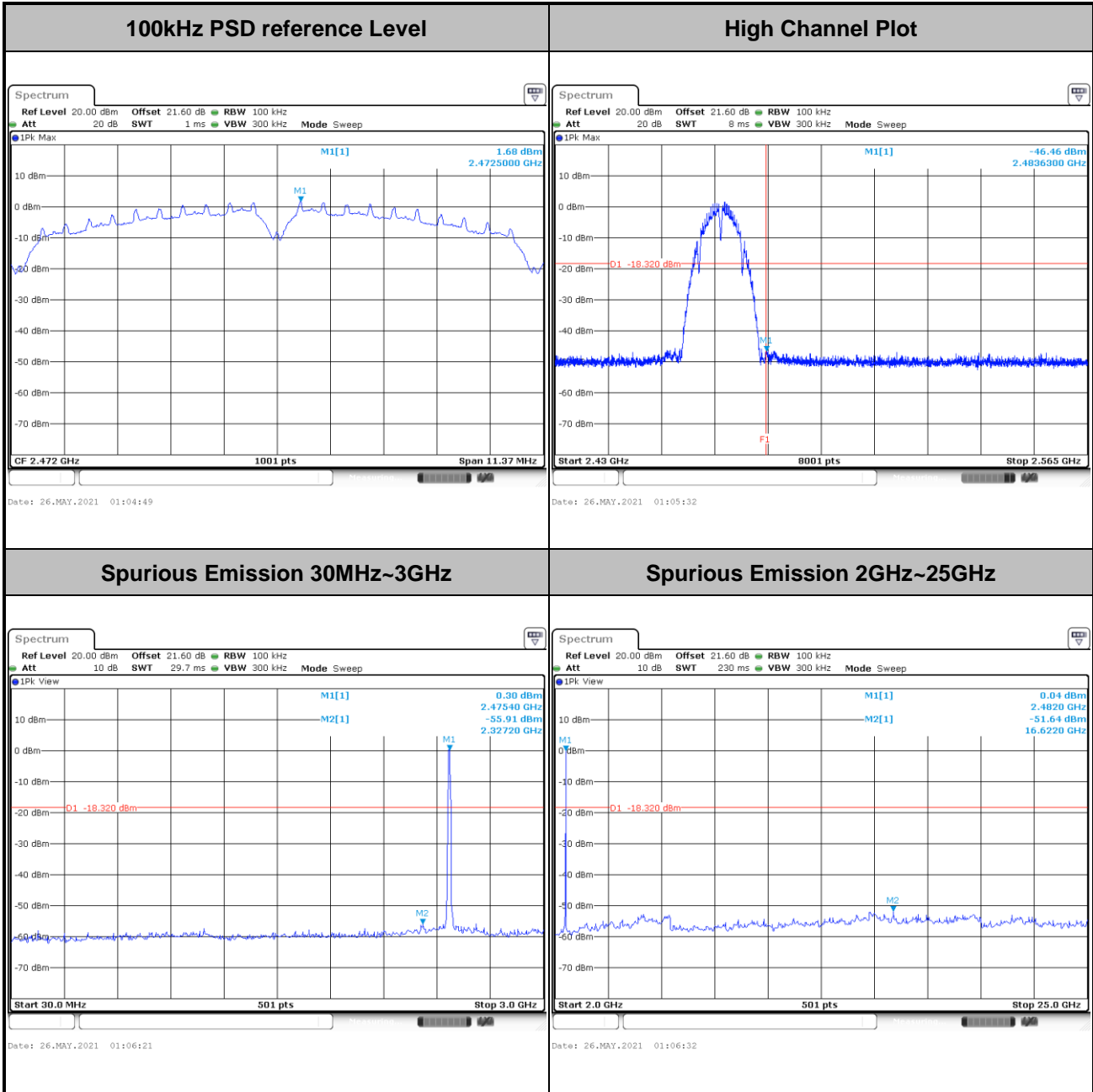


Test Mode :	802.11b	Test Channel :	12
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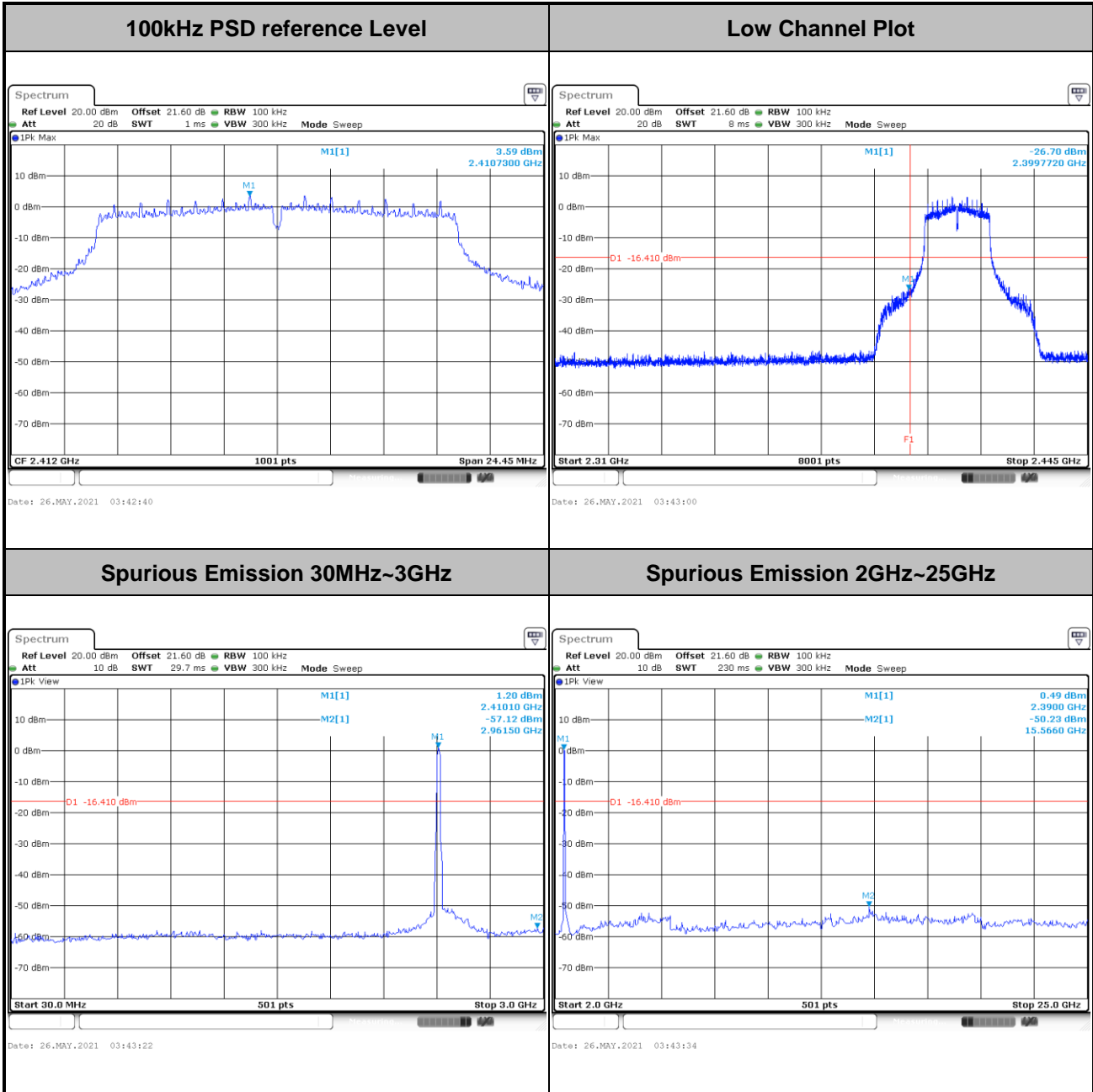


Test Mode :	802.11b	Test Channel :	13
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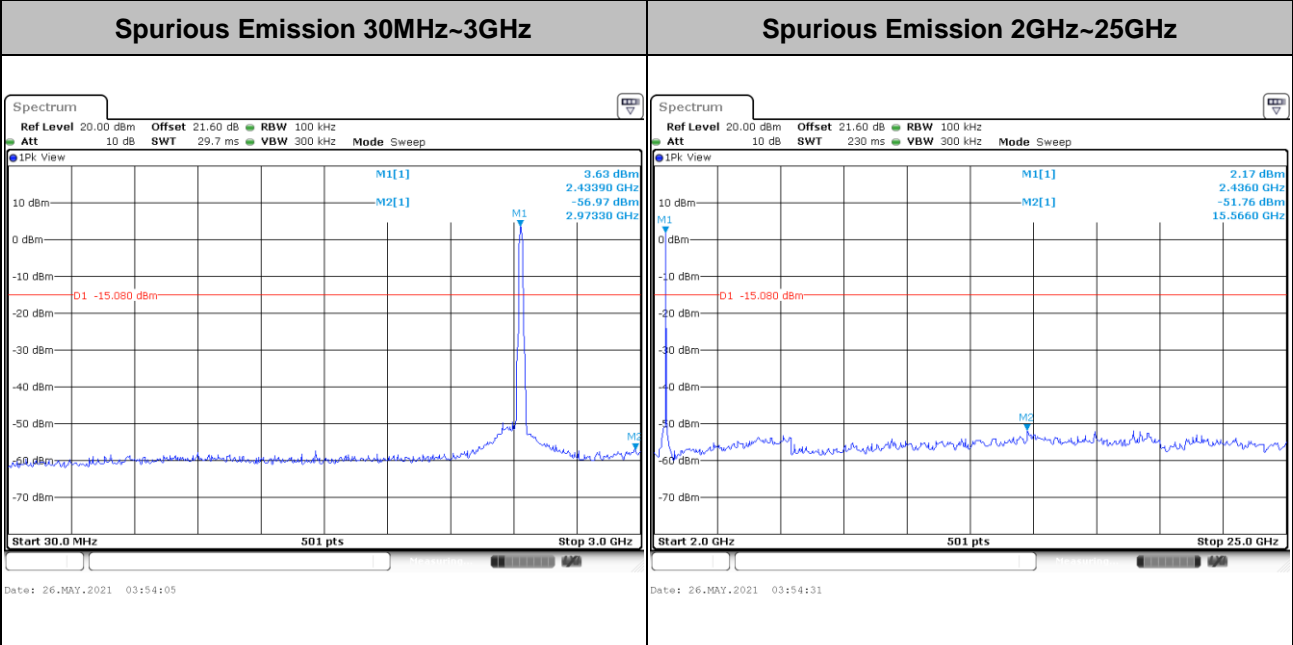
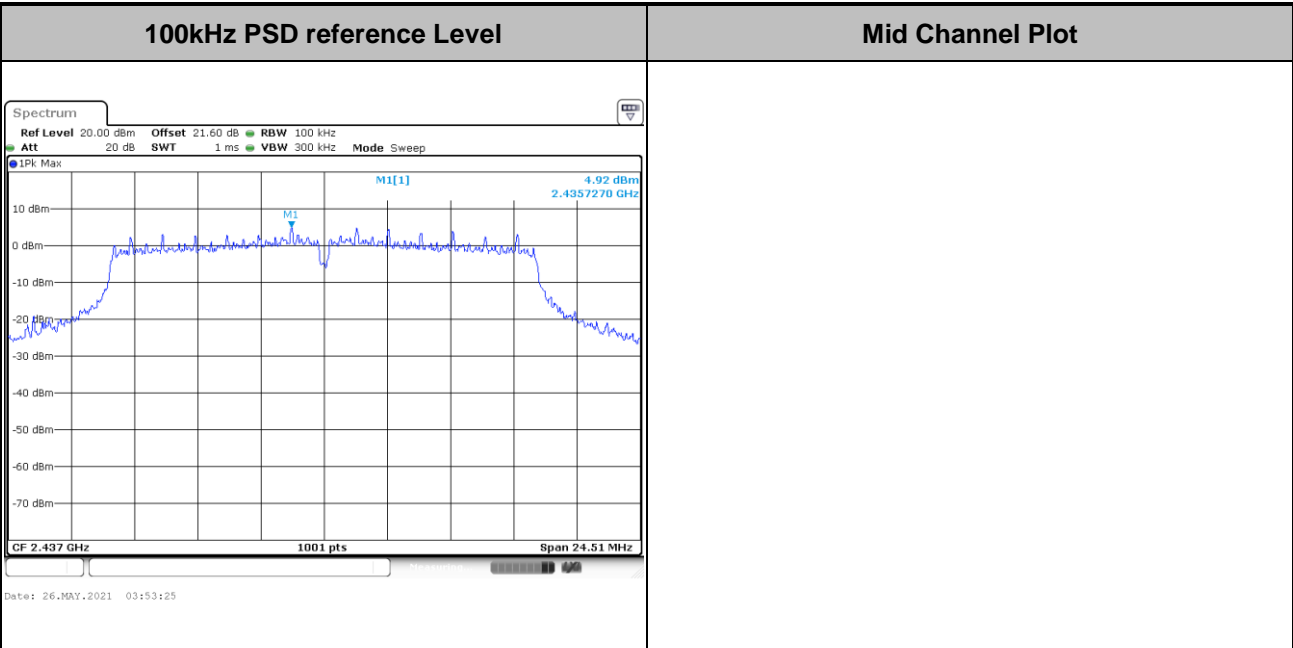


Test Mode :	802.11g	Test Channel :	01
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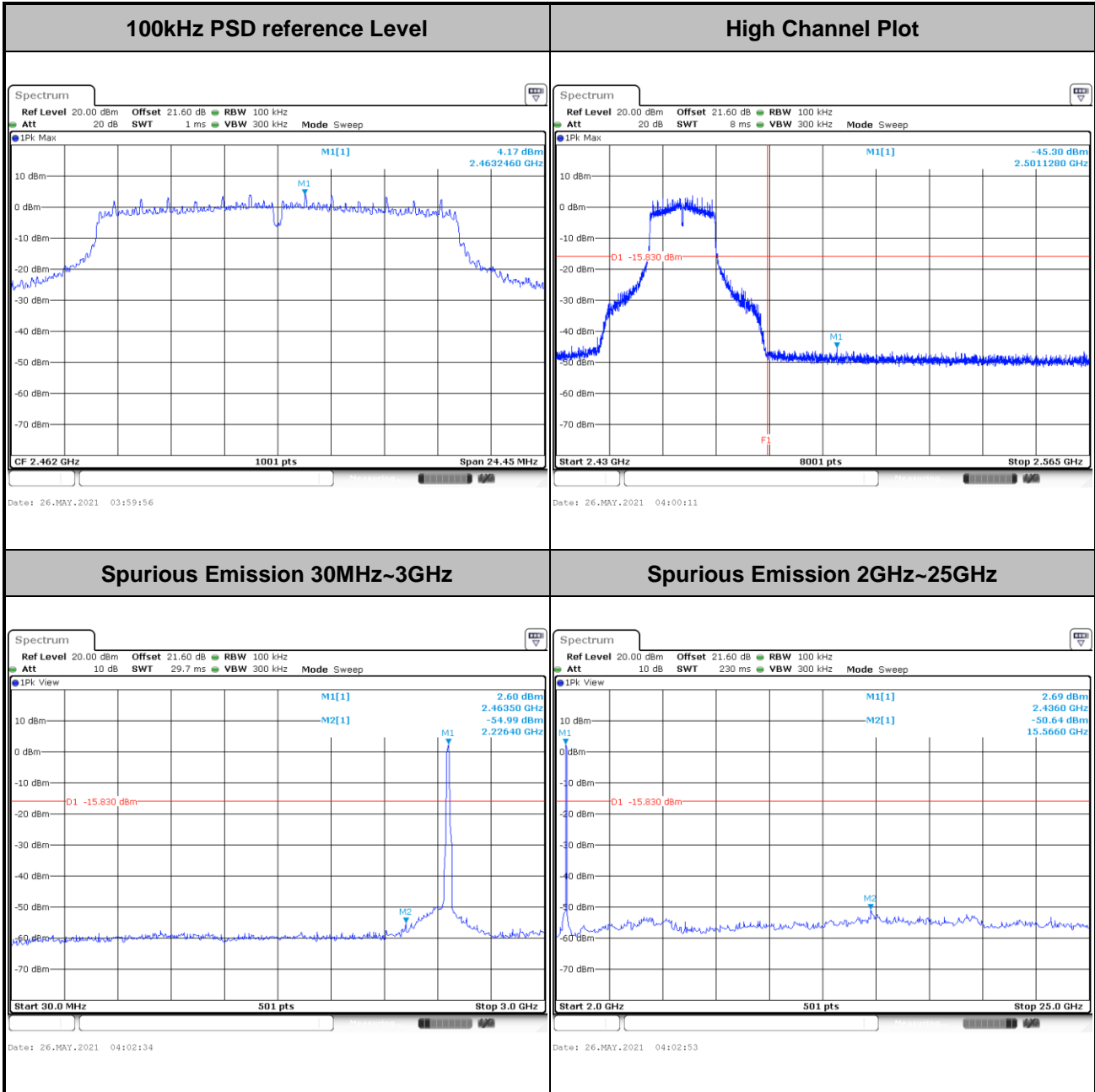


Test Mode :	802.11g	Test Channel :	06
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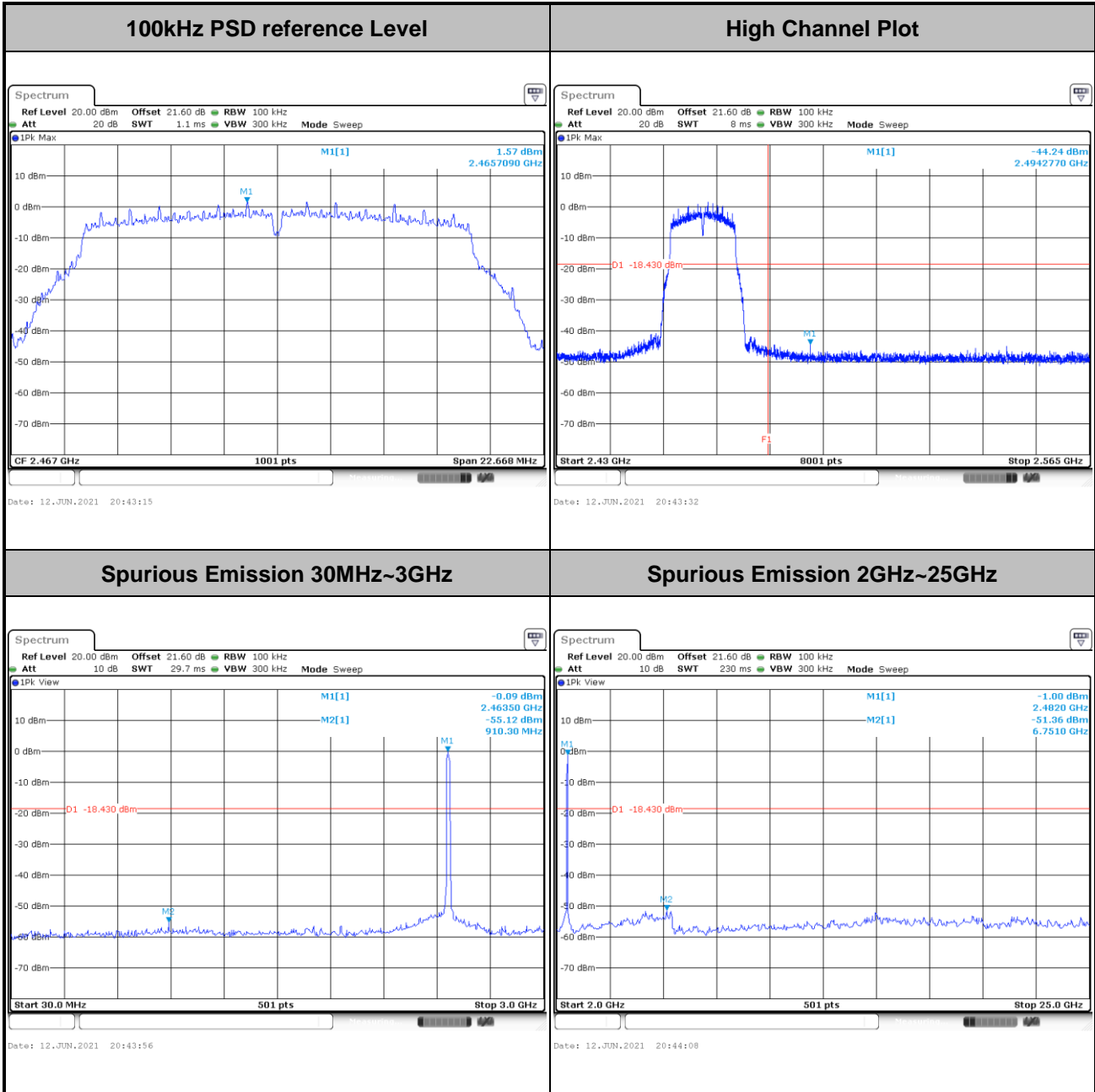


Test Mode :	802.11g	Test Channel :	11
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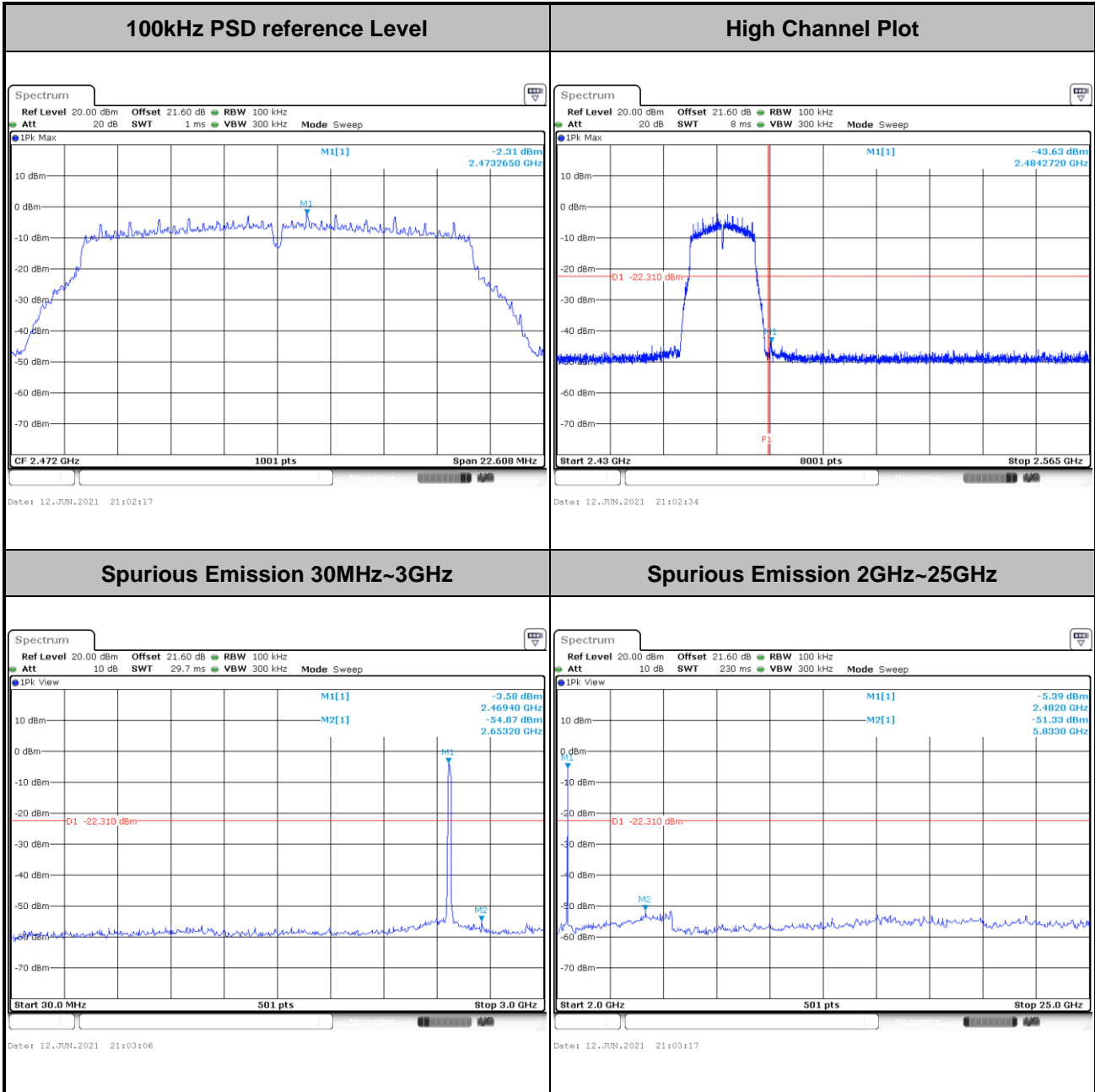


Test Mode :	802.11g	Test Channel :	12
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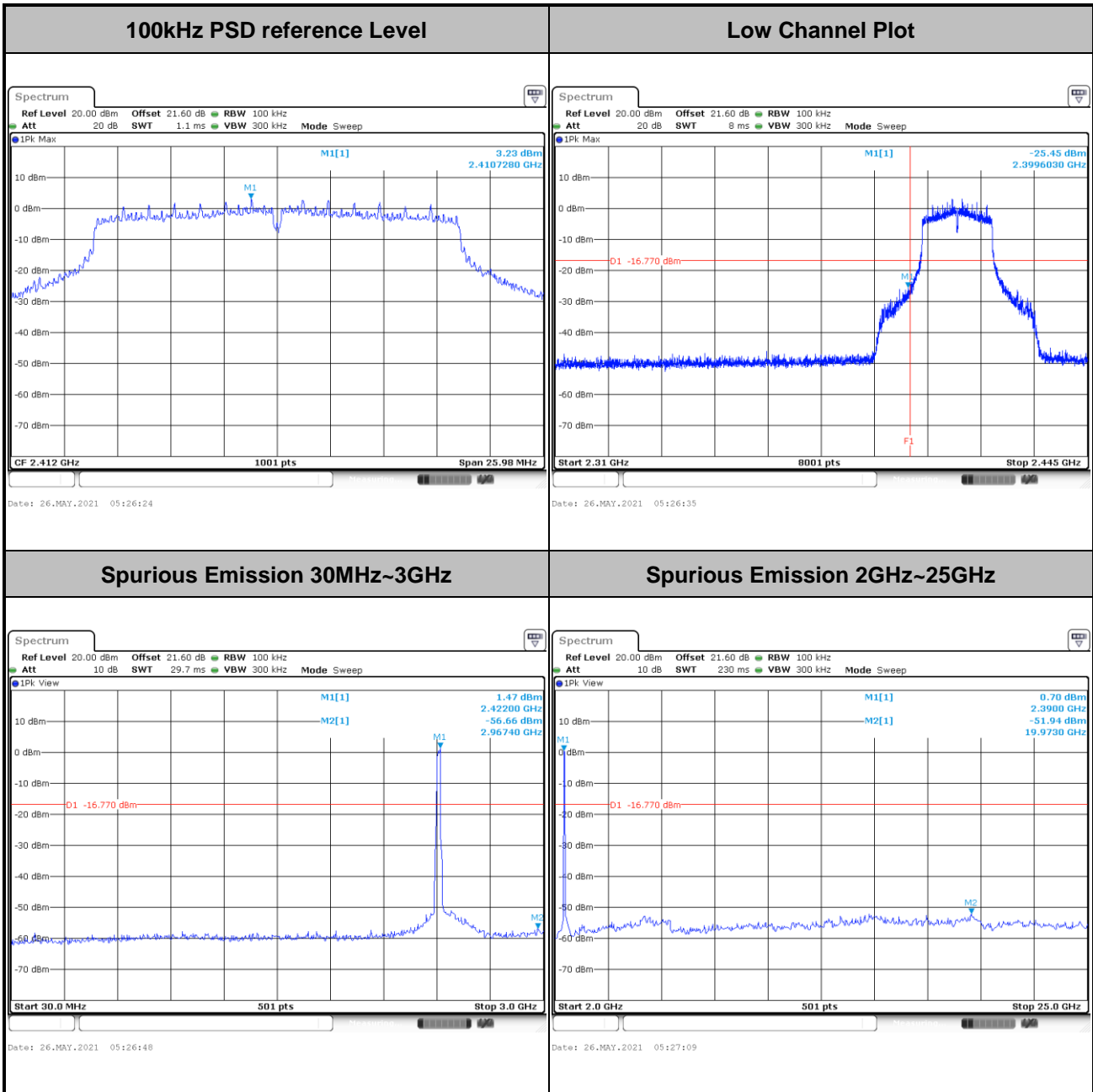


Test Mode :	802.11g	Test Channel :	13
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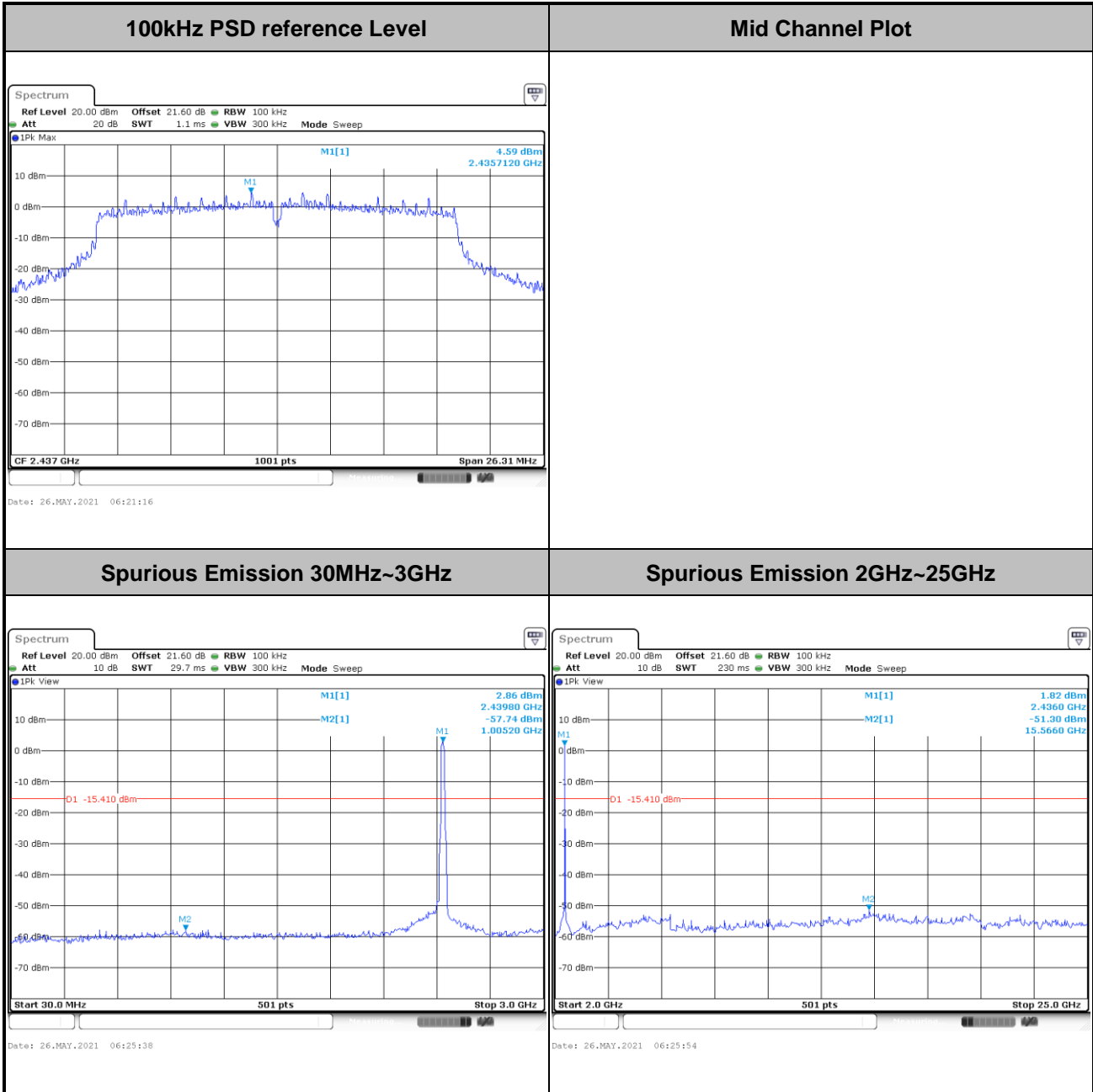


Test Mode :	802.11n HT20	Test Channel :	01
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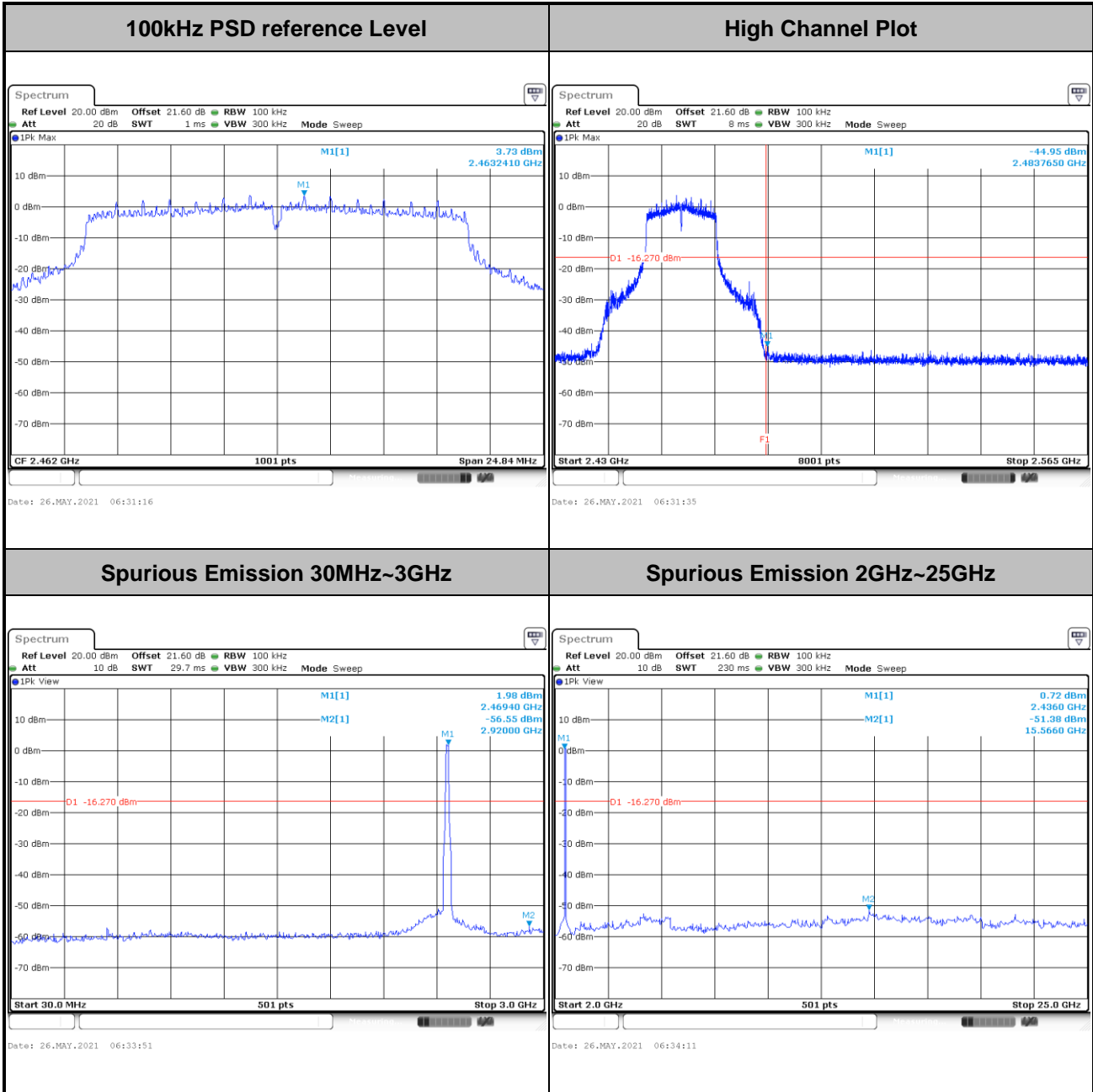


Test Mode :	802.11n HT20	Test Channel :	06
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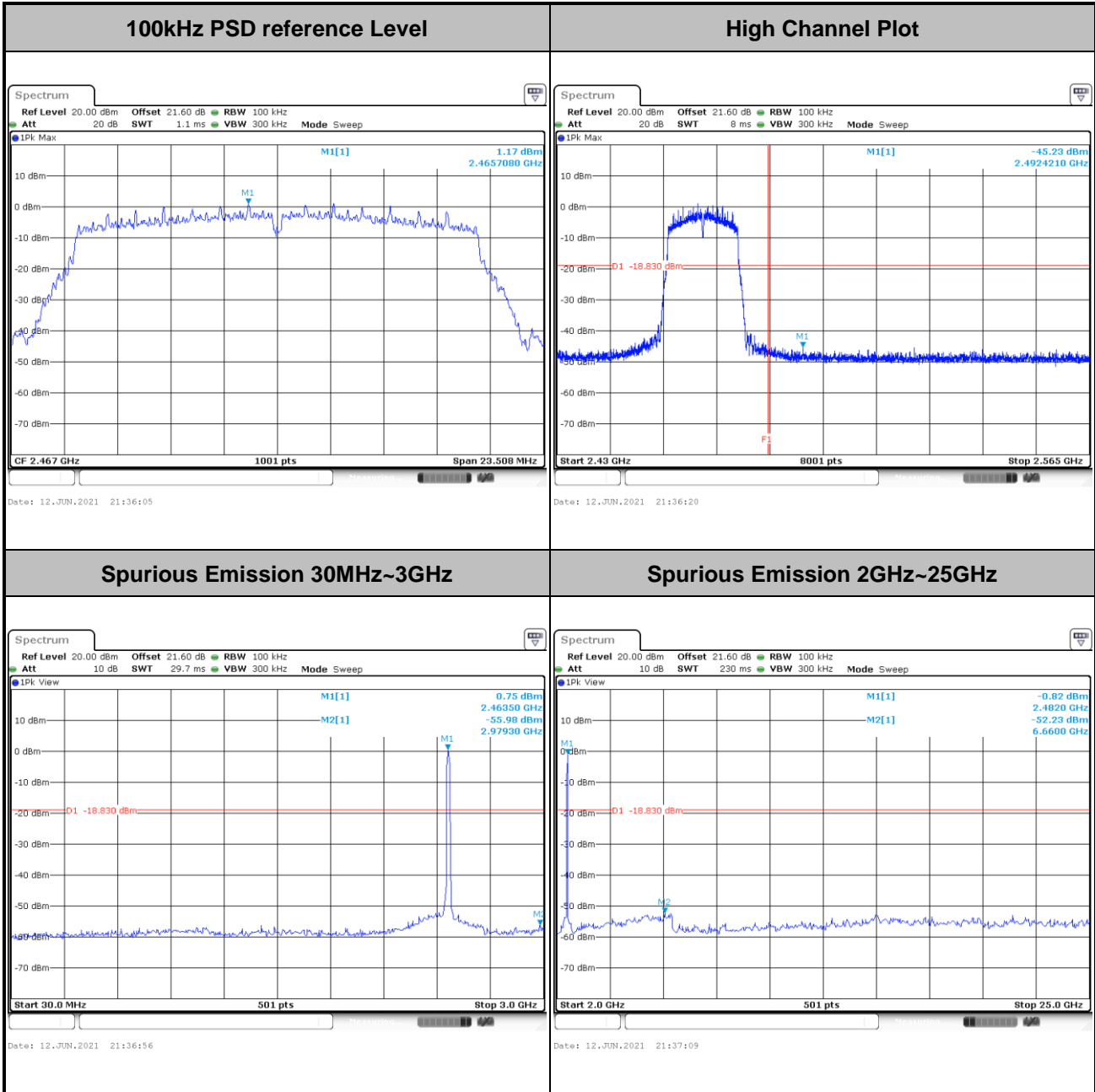


Test Mode :	802.11n HT20	Test Channel :	11
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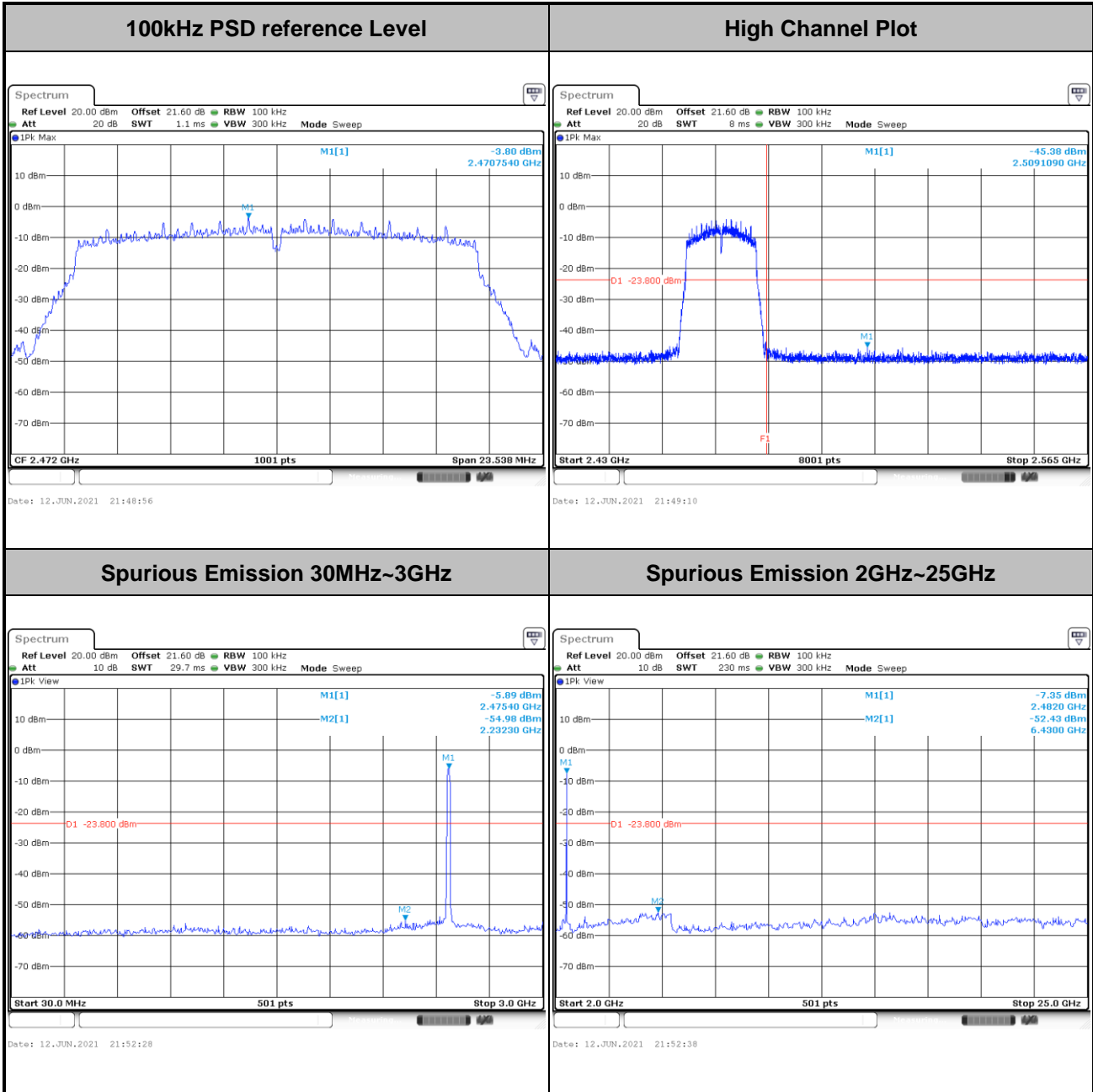


Test Mode :	802.11n HT20	Test Channel :	12
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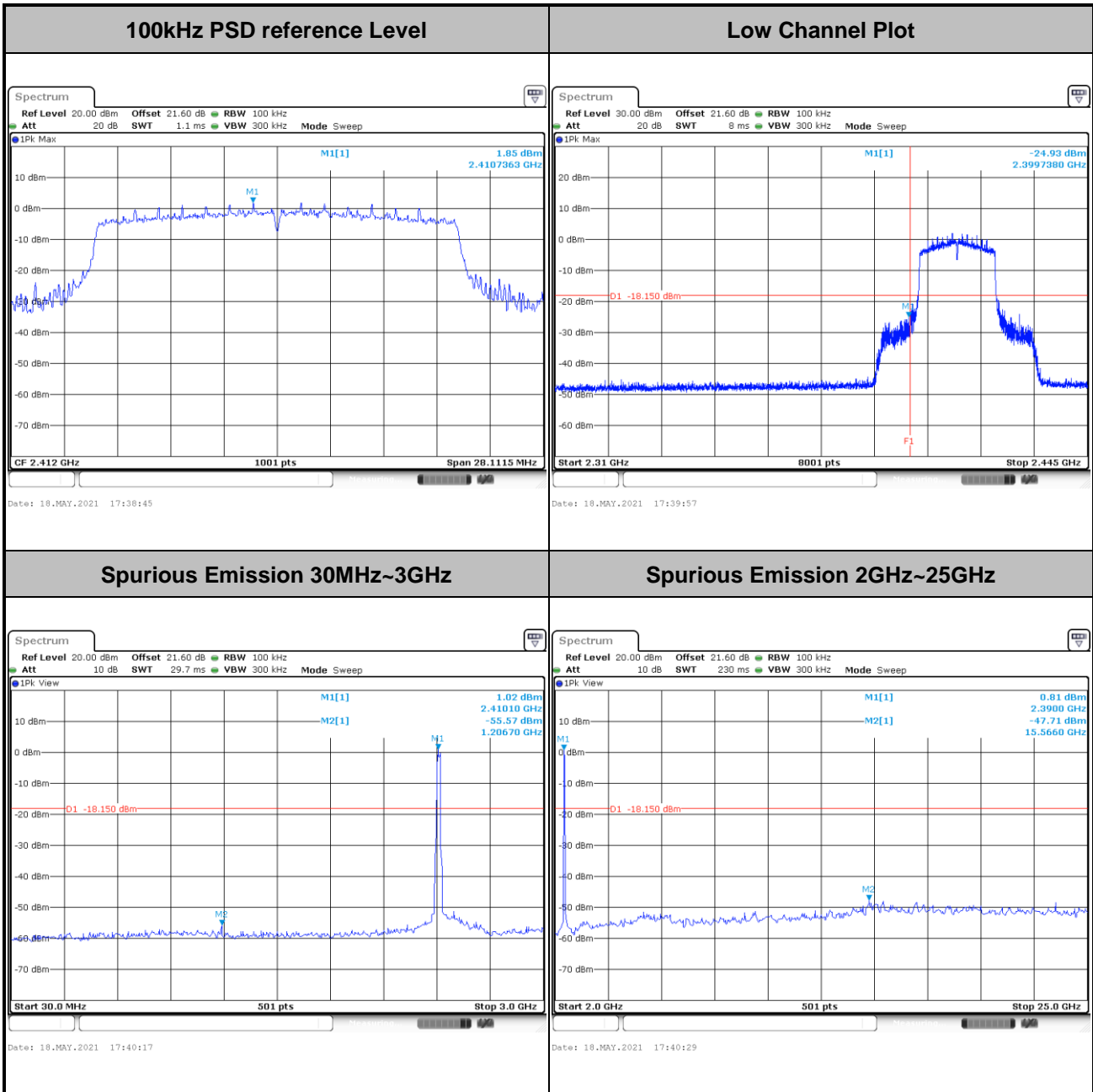


Test Mode :	802.11n HT20	Test Channel :	13
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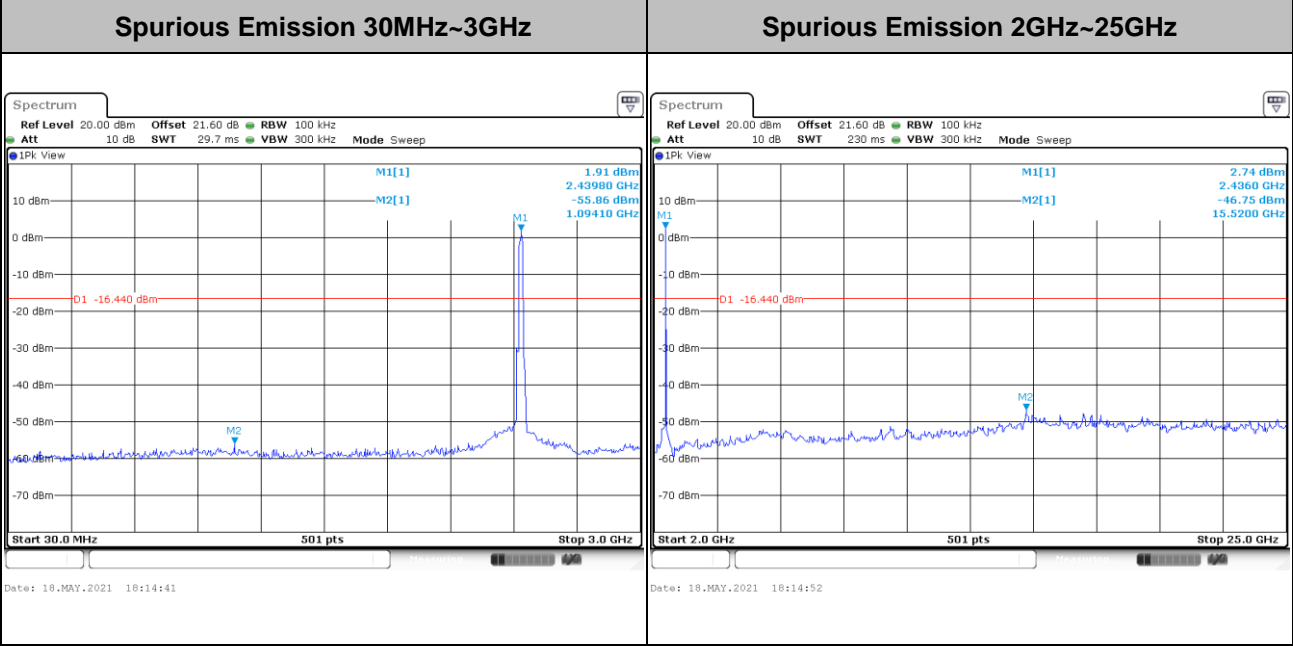
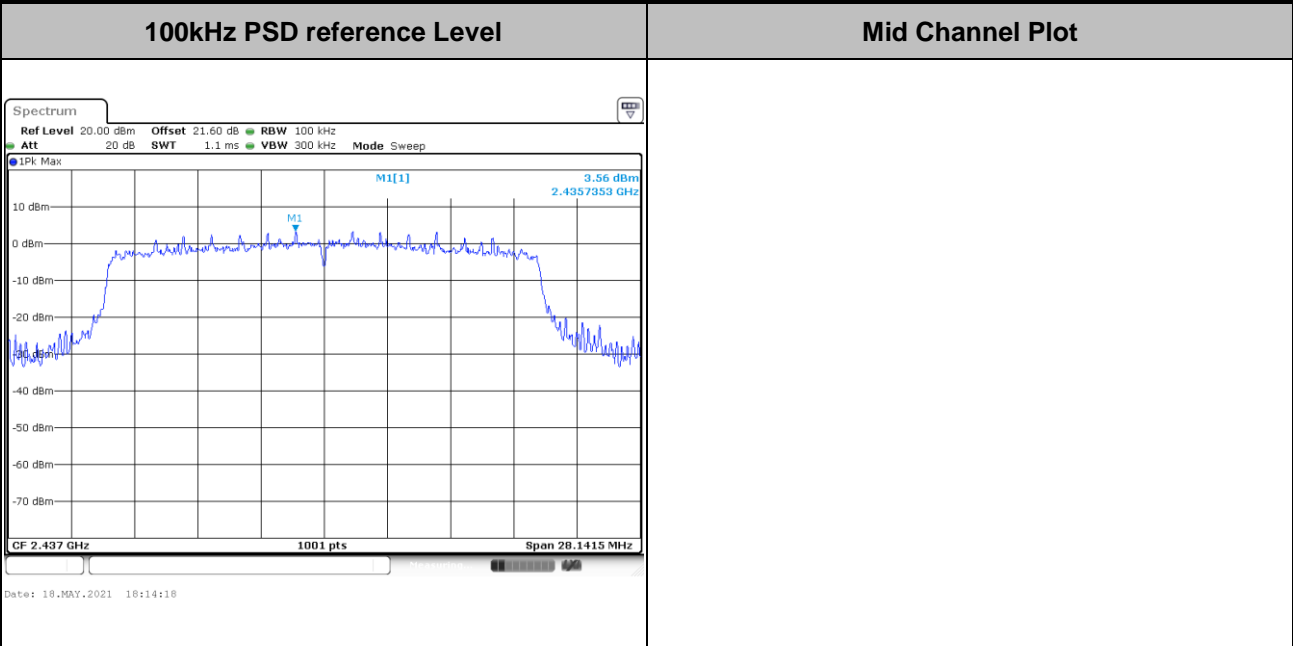


Test Mode :	802.11ax HE20	Test Channel :	01 Full RU
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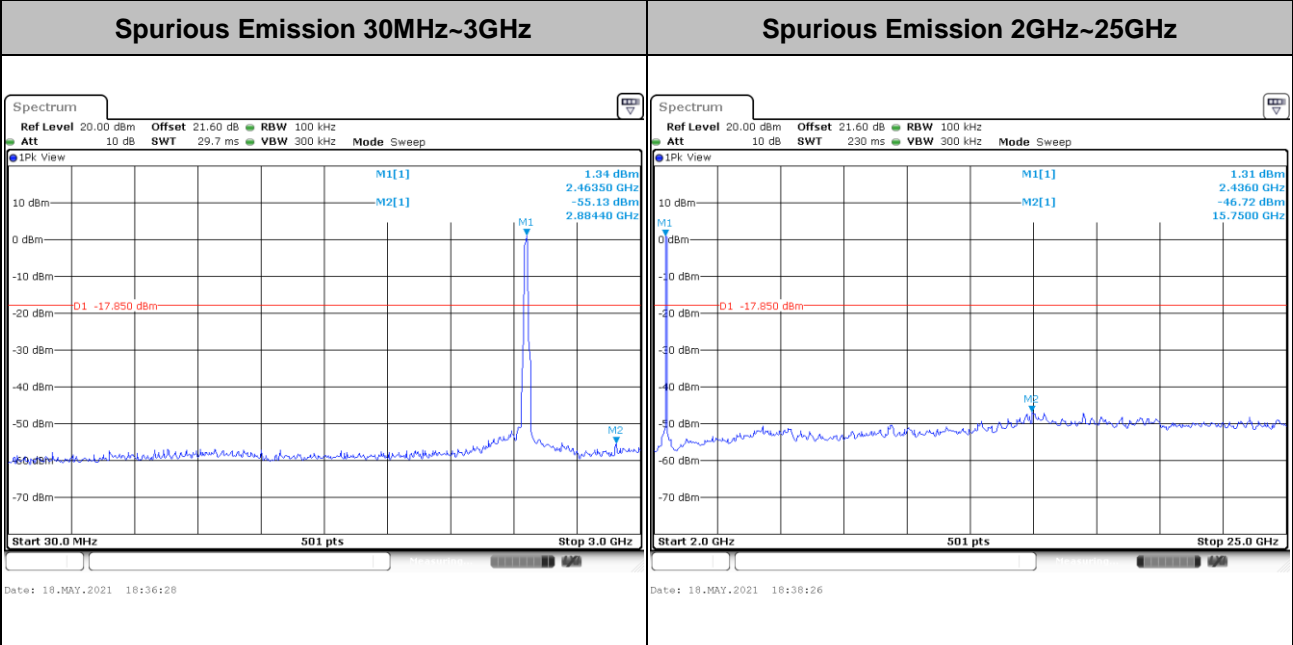
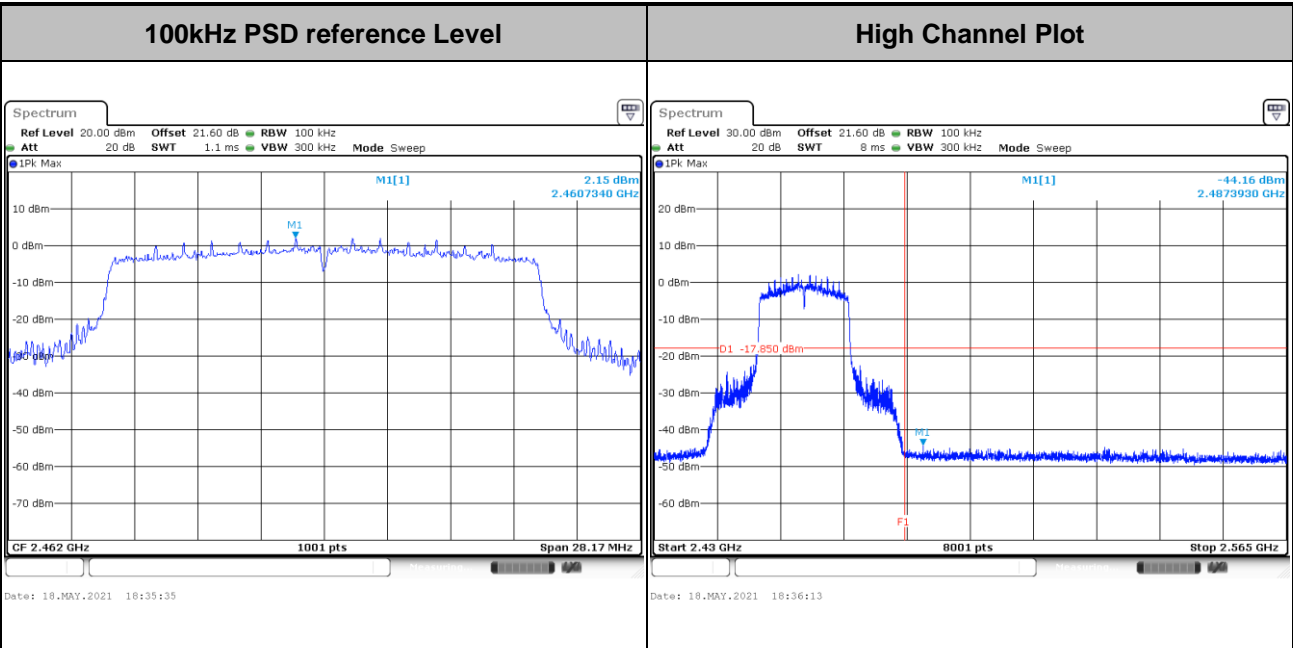


Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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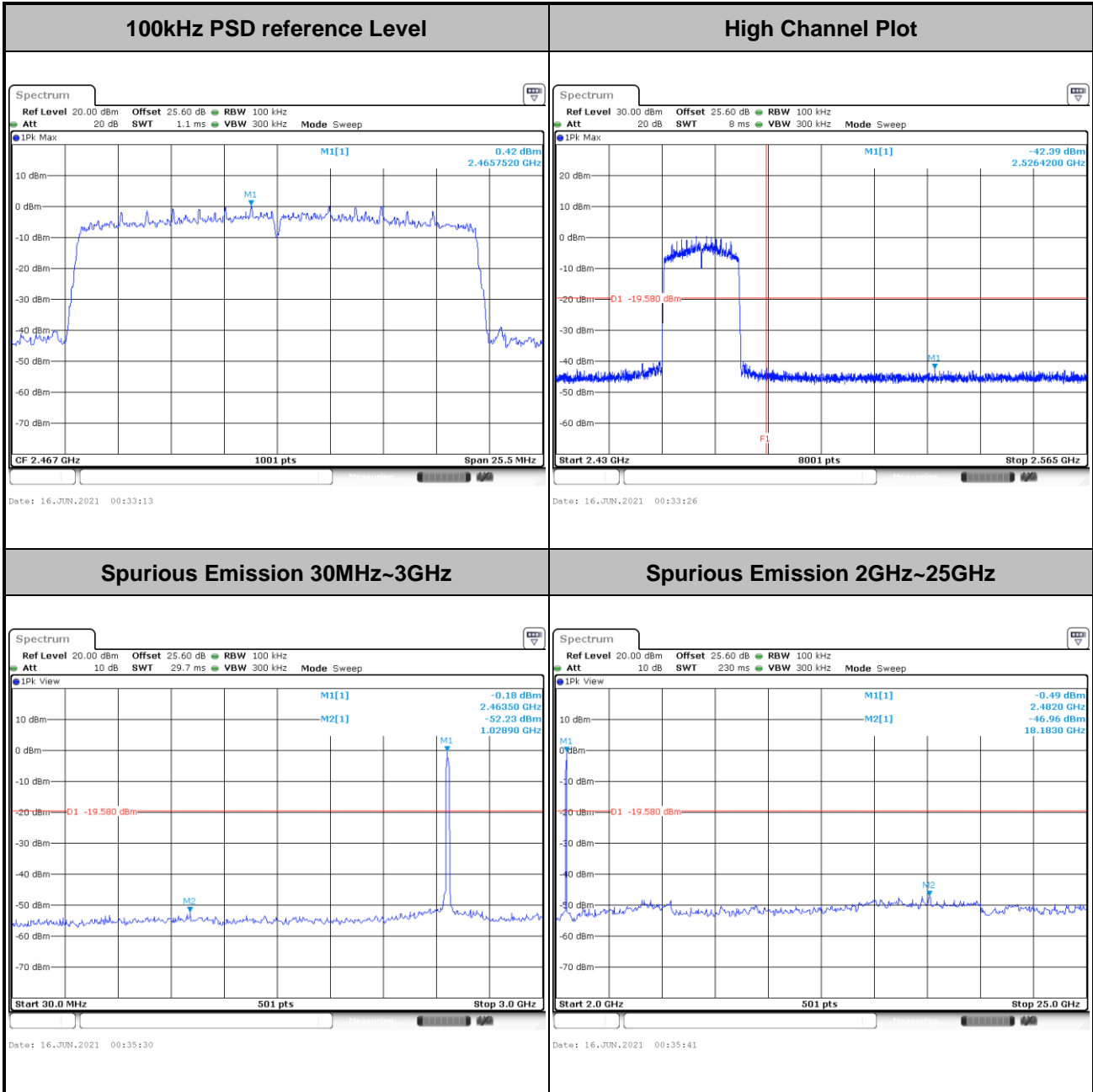


Test Mode :	802.11ax HE20	Test Channel :	11 Full RU
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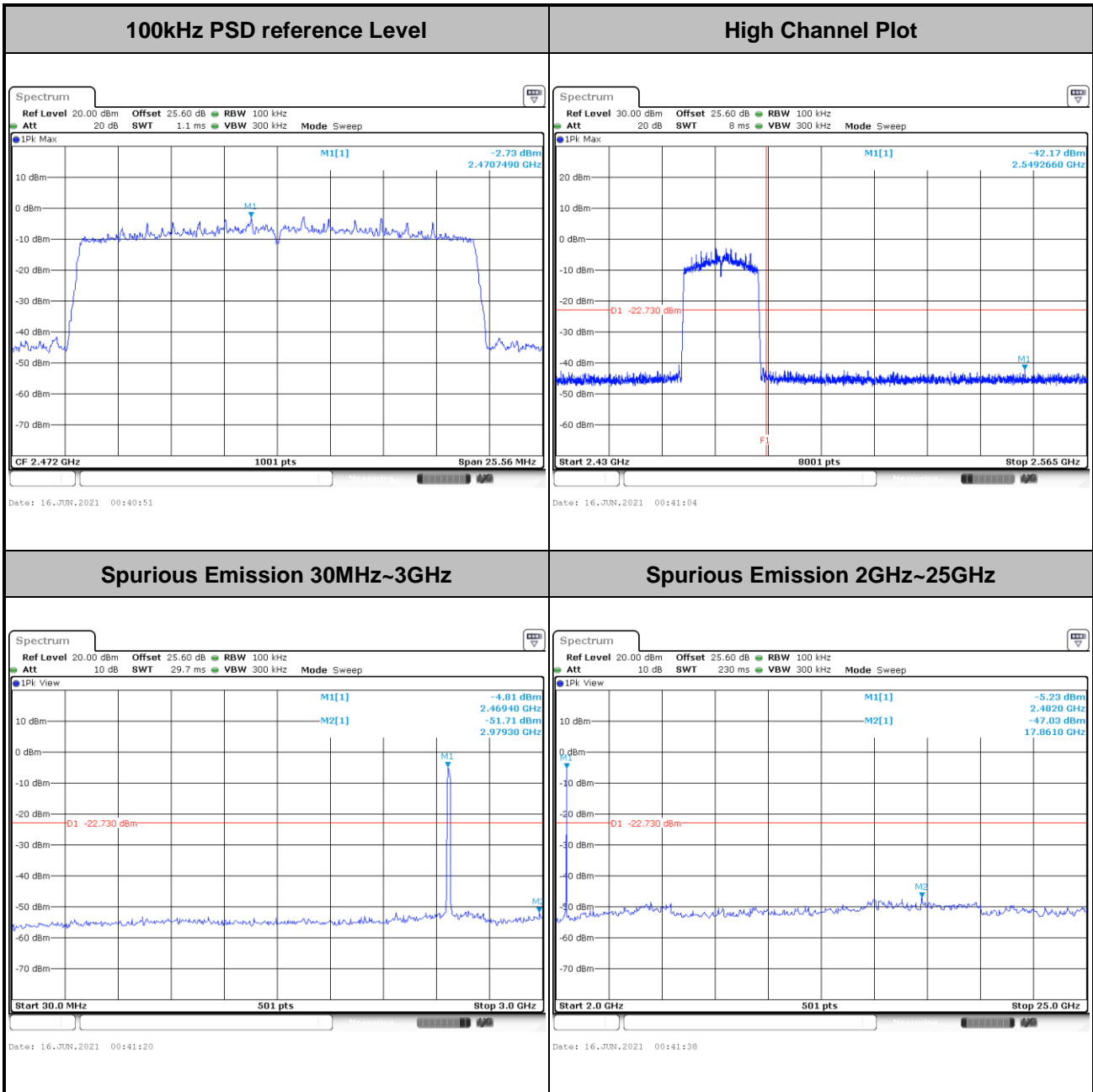


Test Mode :	802.11ax HE20	Test Channel :	12 Full RU
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Test Mode :	802.11ax HE20	Test Channel :	13 Full Ru
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

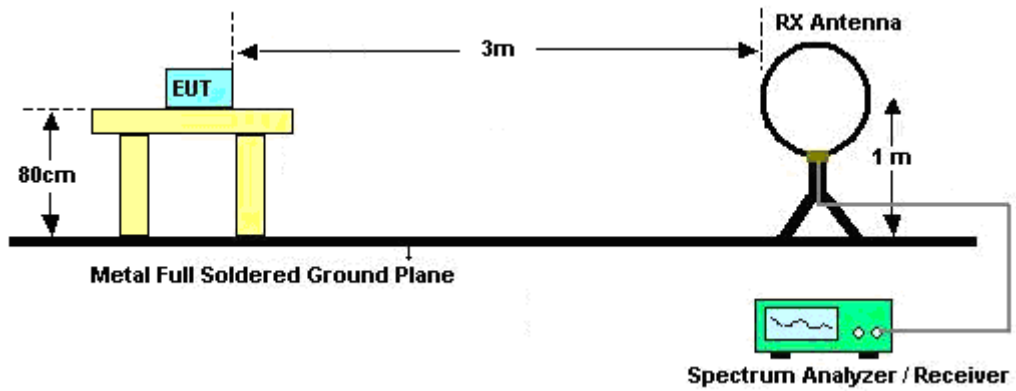
See list of measuring equipment of this test report.

**3.5.3 Test Procedures**

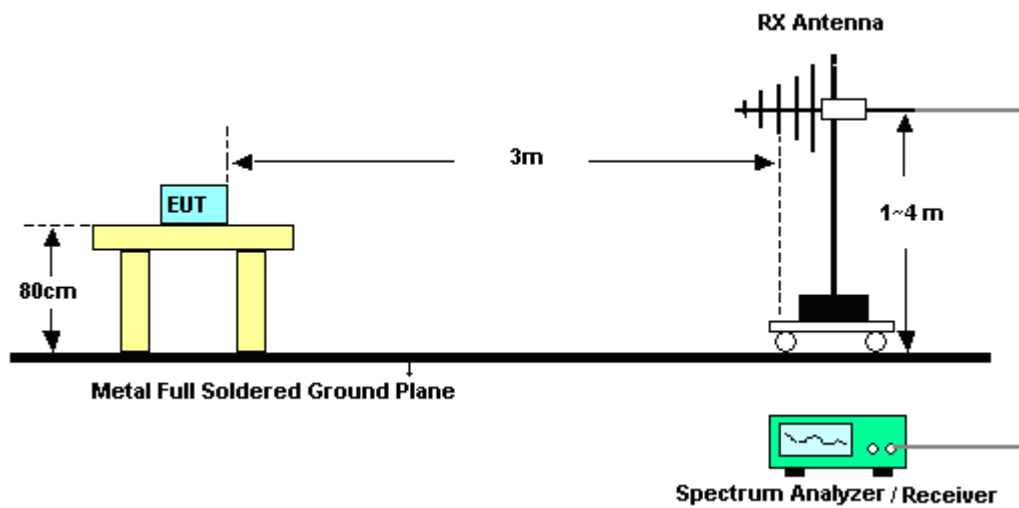
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

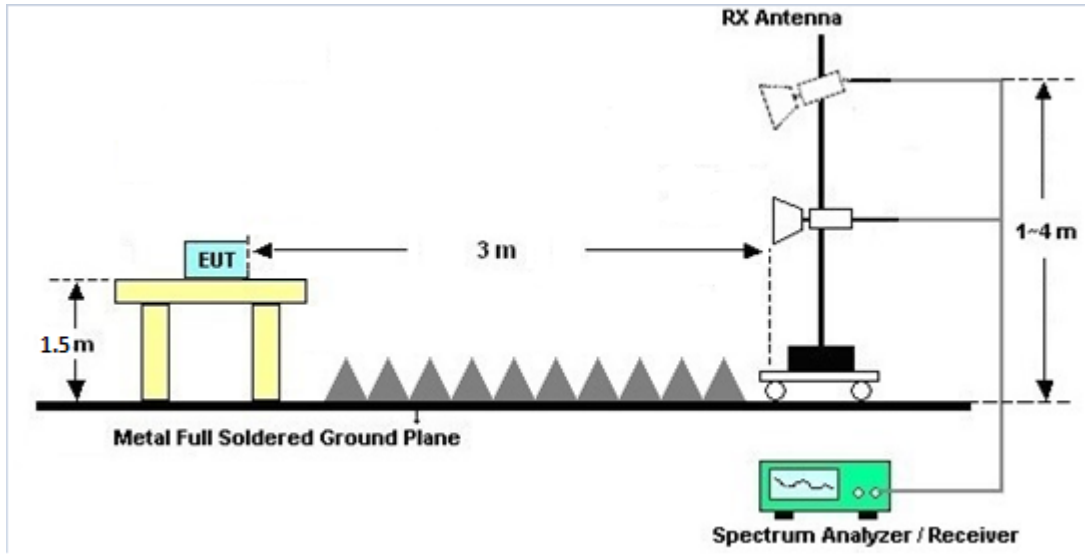
For radiated emissions below 30MHz



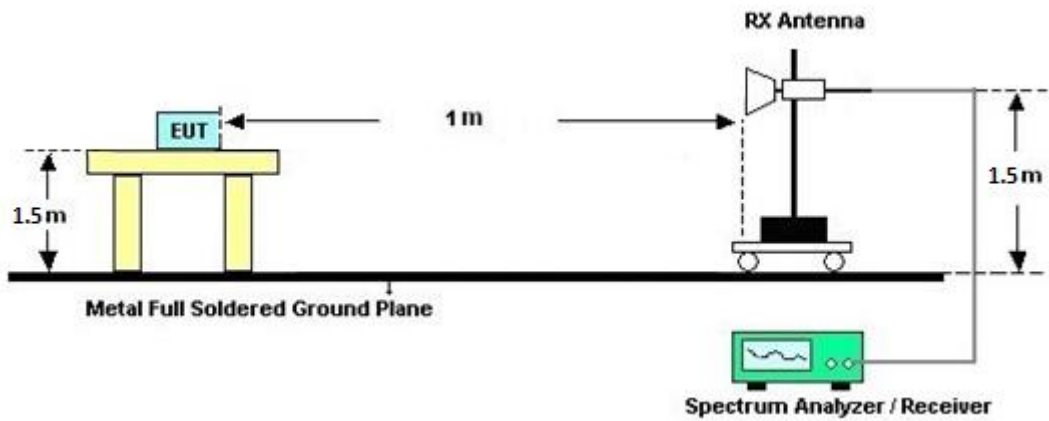
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

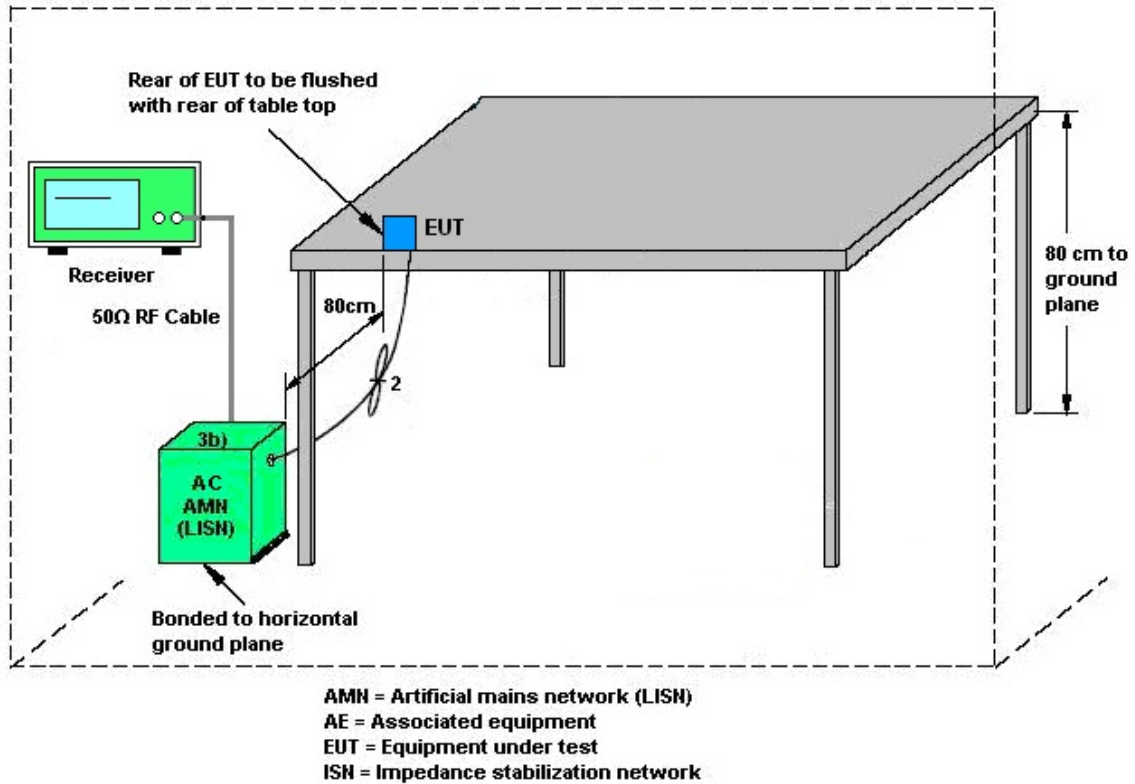
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>

	Ant. 0 (dBi)	Ant. 1 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	3.80	3.70	3.80	6.76	0.00	0.76

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 03, 2020	May 01, 2021~ Jun. 12, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 19, 2020	May 01, 2021~ Jun. 12, 2021	Nov. 18, 2021	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	May 01, 2021~ Jun. 12, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	May 01, 2021~ Jun. 12, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Oct. 27, 2020	May 01, 2021~ Jun. 12, 2021	Oct. 26, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	May 01, 2021~ Jun. 12, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 15, 2020	May 01, 2021~ Jun. 12, 2021	Jun. 14, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	May 01, 2021~ Jun. 12, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	May 01, 2021~ Jun. 12, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	May 01, 2021~ Jun. 12, 2021	Nov. 01, 2021	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 01, 2021~ Jun. 12, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 01, 2021~ Jun. 12, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	May 01, 2021~ Jun. 12, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 11, 2021	May 01, 2021~ Jun. 12, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	May 01, 2021~ Jun. 12, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 11, 2021	May 01, 2021~ Jun. 12, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	May 01, 2021~ Jun. 12, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	3GHz High Pass Filter	Sep. 14, 2020	May 01, 2021~ Jun. 12, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN1	1.53GHz Low Pass Filter	Sep. 14, 2020	May 01, 2021~ Jun. 12, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Hygrometer	TECEPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	May 01, 2021~ Jun. 12, 2021	Nov. 17, 2021	Radiation (03CH11-HY)
Hygrometer	TECEPEL	DTM-303B	TP200880	QA-3-031	Oct. 22, 2020	May 01, 2021~ Jun. 12, 2021	Oct. 21, 2021	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	TR-32	HE17XB24 68	N/A	Mar. 09, 2021	May 10, 2021~ Jun. 16, 2021	Mar. 08, 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO12	10MHz~6GHz	Dec. 16, 2020	May 10, 2021~ Jun. 16, 2021	Dec. 15, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	May 10, 2021~ Jun. 16, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	Burgeon	ETF058	EC130048 4	N/A	Nov. 19, 2020	May 10, 2021~ Jun. 16, 2021	Nov. 18, 2021	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 05, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	May 05, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	May 05, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	May 05, 2021	Nov. 30, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	May 05, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 05, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	May 05, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	May 05, 2021	Dec. 30, 2021	Conduction (CO05-HY)



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Rebecca Li/Junyu Zhou/Shiming Liu	Temperature:	21.3~25.4	°C
Test Date:	2021/5/10~2021/6/16	Relative Humidity:	49.4~57.5	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant0	Ant1	Ant0	Ant1		
11b	1Mbps	1	1	2412	-	12.24	-	8.02	0.50	Pass
11b	1Mbps	1	6	2437	-	12.59	-	8.04	0.50	Pass
11b	1Mbps	1	11	2462	-	12.49	-	8.06	0.50	Pass
11b	1Mbps	1	12	2467	-	12.49	-	8.04	0.50	Pass
11b	1Mbps	1	13	2472	-	12.49	-	8.02	0.50	Pass
11g	6Mbps	1	1	2412	-	17.38	-	15.82	0.50	Pass
11g	6Mbps	1	6	2437	-	17.38	-	15.34	0.50	Pass
11g	6Mbps	1	11	2462	-	17.43	-	15.40	0.50	Pass
11g	6Mbps	1	12	2467	-	16.58	-	15.11	0.50	Pass
11g	6Mbps	1	13	2472	-	16.63	-	15.11	0.50	Pass
HT20	MCS0	1	1	2412	-	18.38	-	16.50	0.50	Pass
HT20	MCS0	1	6	2437	-	18.43	-	16.54	0.50	Pass
HT20	MCS0	1	11	2462	-	18.43	-	15.70	0.50	Pass
HT20	MCS0	1	12	2467	-	17.63	-	15.11	0.50	Pass
HT20	MCS0	1	13	2472	-	17.63	-	15.07	0.50	Pass

2.4GHz Band MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant0	Ant1	Ant0	Ant1		
11b	1Mbps	2	1	2412	12.44	12.39	8.04	8.02	0.50	Pass
11b	1Mbps	2	6	2437	12.84	12.74	8.04	7.56	0.50	Pass
11b	1Mbps	2	11	2462	12.89	12.74	7.56	8.04	0.50	Pass
11b	1Mbps	2	12	2467	12.64	12.49	7.54	8.02	0.50	Pass
11b	1Mbps	2	13	2472	12.69	12.59	7.56	7.58	0.50	Pass
11g	6Mbps	2	1	2412	17.38	16.98	16.06	16.30	0.50	Pass
11g	6Mbps	2	6	2437	17.48	16.98	15.44	16.34	0.50	Pass
11g	6Mbps	2	11	2462	17.38	17.03	16.06	16.30	0.50	Pass
11g	6Mbps	2	12	2467	16.58	16.43	15.11	15.11	0.50	Pass
11g	6Mbps	2	13	2472	16.58	16.43	15.29	15.07	0.50	Pass
HT20	MCS0	2	1	2412	18.38	18.08	16.26	17.32	0.50	Pass
HT20	MCS0	2	6	2437	18.48	18.03	16.32	17.54	0.50	Pass
HT20	MCS0	2	11	2462	18.43	18.08	15.44	16.56	0.50	Pass
HT20	MCS0	2	12	2467	17.58	17.58	15.09	15.67	0.50	Pass
HT20	MCS0	2	13	2472	17.68	17.58	15.09	15.69	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	-	17.98		30.00	30.00	3.80	3.70	-	21.68	-	36.00	Pass
11b	1Mbps	1	6	2437	-	18.09		30.00	30.00	3.80	3.70	-	21.79	-	36.00	Pass
11b	1Mbps	1	11	2462	-	18.07		30.00	30.00	3.80	3.70	-	21.77	-	36.00	Pass
11b	1Mbps	1	12	2467	-	17.95		30.00	30.00	3.80	3.70	-	21.65	-	36.00	Pass
11b	1Mbps	1	13	2472	-	17.46		30.00	30.00	3.80	3.70	-	21.16	-	36.00	Pass
11g	6Mbps	1	1	2412	-	22.53		30.00	30.00	3.80	3.70	-	26.23	-	36.00	Pass
11g	6Mbps	1	6	2437	-	23.60		30.00	30.00	3.80	3.70	-	27.30	-	36.00	Pass
11g	6Mbps	1	11	2462	-	23.10		30.00	30.00	3.80	3.70	-	26.80	-	36.00	Pass
11g	6Mbps	1	12	2467	-	23.66		30.00	30.00	3.80	3.70	-	27.36	-	36.00	Pass
11g	6Mbps	1	13	2472	-	21.20		30.00	30.00	3.80	3.70	-	24.90	-	36.00	Pass
HT20	MCS0	1	1	2412	-	22.10		30.00	30.00	3.80	3.70	-	25.80	-	36.00	Pass
HT20	MCS0	1	6	2437	-	23.80		30.00	30.00	3.80	3.70	-	27.50	-	36.00	Pass
HT20	MCS0	1	11	2462	-	23.65		30.00	30.00	3.80	3.70	-	27.35	-	36.00	Pass
HT20	MCS0	1	12	2467	-	23.95		30.00	30.00	3.80	3.70	-	27.65	-	36.00	Pass
HT20	MCS0	1	13	2472	-	20.83		30.00	30.00	3.80	3.70	-	24.53	-	36.00	Pass

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	2	1	2412	19.10	19.05	22.09	30.00		3.80		25.89		36.00	Pass	
11b	1Mbps	2	6	2437	19.04	19.02	22.04	30.00		3.80		25.84		36.00	Pass	
11b	1Mbps	2	11	2462	19.18	18.91	22.06	30.00		3.80		25.86		36.00	Pass	
11b	1Mbps	2	12	2467	17.73	17.18	20.47	30.00		3.80		24.27		36.00	Pass	
11b	1Mbps	2	13	2472	13.53	13.02	16.29	30.00		3.80		20.09		36.00	Pass	
11g	6Mbps	2	1	2412	22.80	22.64	25.73	30.00		3.80		29.53		36.00	Pass	
11g	6Mbps	2	6	2437	23.80	24.00	26.91	30.00		3.80		30.71		36.00	Pass	
11g	6Mbps	2	11	2462	23.82	23.64	26.74	30.00		3.80		30.54		36.00	Pass	
11g	6Mbps	2	12	2467	20.78	20.53	23.67	30.00		3.80		27.47		36.00	Pass	
11g	6Mbps	2	13	2472	16.63	16.56	19.61	30.00		3.80		23.41		36.00	Pass	
HT20	MCS0	2	1	2412	22.20	22.10	25.16	30.00		3.80		28.96		36.00	Pass	
HT20	MCS0	2	6	2437	23.78	23.90	26.85	30.00		3.80		30.65		36.00	Pass	
HT20	MCS0	2	11	2462	23.18	22.82	26.01	30.00		3.80		29.81		36.00	Pass	
HT20	MCS0	2	12	2467	20.10	19.78	22.95	30.00		3.80		26.75		36.00	Pass	
HT20	MCS0	2	13	2472	15.07	14.76	17.93	30.00		3.80		21.73		36.00	Pass	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power
(Reporting Only)

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1
11b	1Mbps	1	1	2412	-	15.60		3.80	3.70	-	19.30
11b	1Mbps	1	6	2437	-	15.70		3.80	3.70	-	19.40
11b	1Mbps	1	11	2462	-	15.70		3.80	3.70	-	19.40
11b	1Mbps	1	12	2467	-	15.70		3.80	3.70	-	19.40
11b	1Mbps	1	13	2472	-	15.10		3.80	3.70	-	18.80
11g	6Mbps	1	1	2412	-	15.10		3.80	3.70	-	18.80
11g	6Mbps	1	6	2437	-	16.10		3.80	3.70	-	19.80
11g	6Mbps	1	11	2462	-	16.00		3.80	3.70	-	19.70
11g	6Mbps	1	12	2467	-	16.40		3.80	3.70	-	20.10
11g	6Mbps	1	13	2472	-	14.00		3.80	3.70	-	17.70
HT20	MCS0	1	1	2412	-	14.80		3.80	3.70	-	18.50
HT20	MCS0	1	6	2437	-	15.90		3.80	3.70	-	19.60
HT20	MCS0	1	11	2462	-	16.00		3.80	3.70	-	19.70
HT20	MCS0	1	12	2467	-	16.30		3.80	3.70	-	20.00
HT20	MCS0	1	13	2472	-	13.30		3.80	3.70	-	17.00

2.4GHz Band MMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1
11b	1Mbps	2	1	2412	17.10	16.70	19.91	3.80			23.71
11b	1Mbps	2	6	2437	17.00	16.90	19.96	3.80			23.76
11b	1Mbps	2	11	2462	17.10	16.80	19.96	3.80			23.76
11b	1Mbps	2	12	2467	15.00	14.70	17.86	3.80			21.66
11b	1Mbps	2	13	2472	11.20	10.50	13.87	3.80			17.67
11g	6Mbps	2	1	2412	15.30	15.00	18.16	3.80			21.96
11g	6Mbps	2	6	2437	16.30	16.20	19.26	3.80			23.06
11g	6Mbps	2	11	2462	15.90	15.60	18.76	3.80			22.56
11g	6Mbps	2	12	2467	13.20	12.90	16.06	3.80			19.86
11g	6Mbps	2	13	2472	9.10	8.90	12.01	3.80			15.81
HT20	MCS0	2	1	2412	14.70	14.60	17.66	3.80			21.46
HT20	MCS0	2	6	2437	16.30	16.20	19.26	3.80			23.06
HT20	MCS0	2	11	2462	15.40	15.10	18.26	3.80			22.06
HT20	MCS0	2	12	2467	12.60	12.40	15.51	3.80			19.31
HT20	MCS0	2	13	2472	7.70	7.50	10.61	3.80			14.41

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	-	-6.74		3.80	3.70	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-	-6.78		3.80	3.70	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-	-6.80		3.80	3.70	8.00	8.00	Pass
11b	1Mbps	1	12	2467	-	-6.89		3.80	3.70	8.00	8.00	Pass
11b	1Mbps	1	13	2472	-	-7.01		3.80	3.70	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-	-9.84		3.80	3.70	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-	-8.10		3.80	3.70	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-	-8.46		3.80	3.70	8.00	8.00	Pass
11g	6Mbps	1	12	2467	-	-7.90		3.80	3.70	8.00	8.00	Pass
11g	6Mbps	1	13	2472	-	-10.61		3.80	3.70	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-	-11.31		3.80	3.70	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-	-9.97		3.80	3.70	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-	-9.33		3.80	3.70	8.00	8.00	Pass
HT20	MCS0	1	12	2467	-	-9.10		3.80	3.70	8.00	8.00	Pass
HT20	MCS0	1	13	2472	-	-12.30		3.80	3.70	8.00	8.00	Pass

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	2	1	2412	-5.25	-5.12	-2.11	6.76		7.24		Pass
11b	1Mbps	2	6	2437	-4.79	-5.27	-1.78	6.76		7.24		Pass
11b	1Mbps	2	11	2462	-5.02	-5.07	-2.01	6.76		7.24		Pass
11b	1Mbps	2	12	2467	-7.11	-7.70	-4.10	6.76		7.24		Pass
11b	1Mbps	2	13	2472	-11.45	-11.98	-8.44	6.76		7.24		Pass
11g	6Mbps	2	1	2412	-9.92	-9.90	-6.89	6.76		7.24		Pass
11g	6Mbps	2	6	2437	-8.51	-8.38	-5.37	6.76		7.24		Pass
11g	6Mbps	2	11	2462	-8.17	-8.83	-5.16	6.76		7.24		Pass
11g	6Mbps	2	12	2467	-10.65	-11.65	-7.64	6.76		7.24		Pass
11g	6Mbps	2	13	2472	-14.71	-15.63	-11.70	6.76		7.24		Pass
HT20	MCS0	2	1	2412	-10.79	-11.11	-7.78	6.76		7.24		Pass
HT20	MCS0	2	6	2437	-8.42	-8.23	-5.22	6.76		7.24		Pass
HT20	MCS0	2	11	2462	-9.77	-10.47	-6.76	6.76		7.24		Pass
HT20	MCS0	2	12	2467	-12.30	-13.17	-9.29	6.76		7.24		Pass
HT20	MCS0	2	13	2472	-17.35	-18.19	-14.34	6.76		7.24		Pass

Note: Measured power density (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant0	Ant1	Ant0	Ant1		
HE20	MCS0	1	1	2412	Full	-	19.13	-	18.71	0.50	Pass
HE20	MCS0	1	6	2437	Full	-	19.08	-	18.80	0.50	Pass
HE20	MCS0	1	11	2462	Full	-	19.08	-	18.50	0.50	Pass
HE20	MCS0	1	12	2467	Full	-	18.78	-	17.40	0.50	Pass
HE20	MCS0	1	13	2472	Full	-	18.78	-	18.36	0.50	Pass

2.4GHz Band MIMO											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant0	Ant1	Ant0	Ant1		
HE20	MCS0	2	1	2412	Full	19.08	19.08	18.60	18.74	0.50	Pass
HE20	MCS0	2	6	2437	Full	19.08	19.08	18.60	18.76	0.50	Pass
HE20	MCS0	2	11	2462	Full	19.08	19.13	18.70	18.78	0.50	Pass
HE20	MCS0	2	12	2467	Full	18.78	18.78	17.04	17.00	0.50	Pass
HE20	MCS0	2	13	2472	Full	18.78	18.78	18.02	17.04	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna																	
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	1	1	2412	Full	-	22.00		30.00	30.00	3.80	3.70	-	25.70	-	36.00	Pass
HE20	MCS0	1	1	2412	26/0	-	15.22		30.00	30.00	3.80	3.70	-	18.92	-	36.00	Pass
HE20	MCS0	1	1	2412	52/37	-	19.65		30.00	30.00	3.80	3.70	-	23.35	-	36.00	Pass
HE20	MCS0	1	1	2412	106/53	-	22.18		30.00	30.00	3.80	3.70	-	25.88	-	36.00	Pass
HE20	MCS0	1	6	2437	Full	-	22.64		30.00	30.00	3.80	3.70	-	26.34	-	36.00	Pass
HE20	MCS0	1	6	2437	26/4	-	16.46		30.00	30.00	3.80	3.70	-	20.16	-	36.00	Pass
HE20	MCS0	1	6	2437	52/38	-	18.81		30.00	30.00	3.80	3.70	-	22.51	-	36.00	Pass
HE20	MCS0	1	6	2437	106/53	-	21.22		30.00	30.00	3.80	3.70	-	24.92	-	36.00	Pass
HE20	MCS0	1	11	2462	Full	-	22.60		30.00	30.00	3.80	3.70	-	26.30	-	36.00	Pass
HE20	MCS0	1	11	2462	26/8	-	16.66		30.00	30.00	3.80	3.70	-	20.36	-	36.00	Pass
HE20	MCS0	1	11	2462	52/40	-	19.25		30.00	30.00	3.80	3.70	-	22.95	-	36.00	Pass
HE20	MCS0	1	11	2462	106/54	-	23.44		30.00	30.00	3.80	3.70	-	27.14	-	36.00	Pass
HE20	MCS0	1	12	2467	Full	-	21.60		30.00	30.00	3.80	3.70	-	25.30	-	36.00	Pass
HE20	MCS0	1	12	2467	26/8	-	14.15		30.00	30.00	3.80	3.70	-	17.85	-	36.00	Pass
HE20	MCS0	1	12	2467	52/40	-	17.20		30.00	30.00	3.80	3.70	-	20.90	-	36.00	Pass
HE20	MCS0	1	12	2467	106/54	-	19.58		30.00	30.00	3.80	3.70	-	23.28	-	36.00	Pass
HE20	MCS0	1	13	2472	Full	-	17.40		30.00	30.00	3.80	3.70	-	21.10	-	36.00	Pass
HE20	MCS0	1	13	2472	26/8	-	6.40		30.00	30.00	3.80	3.70	-	10.10	-	36.00	Pass
HE20	MCS0	1	13	2472	52/40	-	6.70		30.00	30.00	3.80	3.70	-	10.40	-	36.00	Pass
HE20	MCS0	1	13	2472	106/54	-	6.90		30.00	30.00	3.80	3.70	-	10.60	-	36.00	Pass

2.4GHz Band MIMO																	
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	2	1	2412	Full	21.33	21.27	24.31	30.00		3.80		28.11		36.00		Pass
HE20	MCS0	2	1	2412	26/0	14.50	14.14	17.33	30.00		3.80		21.13		36.00		Pass
HE20	MCS0	2	1	2412	52/37	20.04	19.66	22.86	30.00		3.80		26.66		36.00		Pass
HE20	MCS0	2	1	2412	106/53	22.30	22.26	25.29	30.00		3.80		29.09		36.00		Pass
HE20	MCS0	2	6	2437	Full	23.14	22.75	25.96	30.00		3.80		29.76		36.00		Pass
HE20	MCS0	2	6	2437	26/4	18.42	18.34	21.39	30.00		3.80		25.19		36.00		Pass
HE20	MCS0	2	6	2437	52/38	21.29	21.22	24.27	30.00		3.80		28.07		36.00		Pass
HE20	MCS0	2	6	2437	106/53	23.12	23.36	26.25	30.00		3.80		30.05		36.00		Pass
HE20	MCS0	2	11	2462	Full	21.67	21.25	24.48	30.00		3.80		28.28		36.00		Pass
HE20	MCS0	2	11	2462	26/8	15.11	15.26	18.20	30.00		3.80		22.00		36.00		Pass
HE20	MCS0	2	11	2462	52/40	19.36	19.36	22.37	30.00		3.80		26.17		36.00		Pass
HE20	MCS0	2	11	2462	106/54	22.55	22.55	25.56	30.00		3.80		29.36		36.00		Pass
HE20	MCS0	2	12	2467	Full	21.24	21.30	24.28	30.00		3.80		28.08		36.00		Pass
HE20	MCS0	2	12	2467	26/8	13.80	14.20	17.01	30.00		3.80		20.81		36.00		Pass
HE20	MCS0	2	12	2467	52/40	17.11	17.41	20.27	30.00		3.80		24.07		36.00		Pass
HE20	MCS0	2	12	2467	106/54	19.41	19.44	22.44	30.00		3.80		26.24		36.00		Pass
HE20	MCS0	2	13	2472	Full	17.51	17.45	20.49	30.00		3.80		24.29		36.00		Pass
HE20	MCS0	2	13	2472	26/8	7.00	6.90	9.96	30.00		3.80		13.76		36.00		Pass
HE20	MCS0	2	13	2472	52/40	6.40	6.12	9.27	30.00		3.80		13.07		36.00		Pass
HE20	MCS0	2	13	2472	106/54	6.90	6.20	9.57	30.00		3.80		13.37		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power
(Reporting Only)

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1
HE20	MCS0	1	1	2412	Full	-	14.50		3.80	3.70	-	18.20
HE20	MCS0	1	1	2412	26/0	-	5.70		3.80	3.70	-	9.40
HE20	MCS0	1	1	2412	52/37	-	8.80		3.80	3.70	-	12.50
HE20	MCS0	1	1	2412	106/53	-	11.70		3.80	3.70	-	15.40
HE20	MCS0	1	6	2437	Full	-	15.20		3.80	3.70	-	18.90
HE20	MCS0	1	6	2437	26/4	-	6.60		3.80	3.70	-	10.30
HE20	MCS0	1	6	2437	52/38	-	9.10		3.80	3.70	-	12.80
HE20	MCS0	1	6	2437	106/53	-	12.00		3.80	3.70	-	15.70
HE20	MCS0	1	11	2462	Full	-	15.10		3.80	3.70	-	18.80
HE20	MCS0	1	11	2462	26/8	-	7.30		3.80	3.70	-	11.00
HE20	MCS0	1	11	2462	52/40	-	9.40		3.80	3.70	-	13.10
HE20	MCS0	1	11	2462	106/54	-	13.30		3.80	3.70	-	17.00
HE20	MCS0	1	12	2467	Full	-	12.60		3.80	3.70	-	16.30
HE20	MCS0	1	12	2467	26/8	-	4.00		3.80	3.70	-	7.70
HE20	MCS0	1	12	2467	52/40	-	6.60		3.80	3.70	-	10.30
HE20	MCS0	1	12	2467	106/54	-	9.20		3.80	3.70	-	12.90
HE20	MCS0	1	13	2472	Full	-	8.70		3.80	3.70	-	12.40
HE20	MCS0	1	13	2472	26/8	-	-5.00		3.80	3.70	-	-1.30
HE20	MCS0	1	13	2472	52/40	-	-8.50		3.80	3.70	-	-4.80
HE20	MCS0	1	13	2472	106/54	-	-6.50		3.80	3.70	-	-2.80

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1
HE20	MCS0	2	1	2412	Full	13.80	13.60	16.71	3.80		20.51	
HE20	MCS0	2	1	2412	26/0	5.00	4.90	7.96	3.80		11.76	
HE20	MCS0	2	1	2412	52/37	9.00	8.80	11.91	3.80		15.71	
HE20	MCS0	2	1	2412	106/53	11.40	11.00	14.21	3.80		18.01	
HE20	MCS0	2	6	2437	Full	15.40	15.20	18.31	3.80		22.11	
HE20	MCS0	2	6	2437	26/4	7.20	7.20	10.21	3.80		14.01	
HE20	MCS0	2	6	2437	52/38	10.30	10.20	13.26	3.80		17.06	
HE20	MCS0	2	6	2437	106/53	12.50	12.40	15.46	3.80		19.26	
HE20	MCS0	2	11	2462	Full	14.10	13.80	16.96	3.80		20.76	
HE20	MCS0	2	11	2462	26/8	5.80	5.50	8.66	3.80		12.46	
HE20	MCS0	2	11	2462	52/40	8.70	8.40	11.56	3.80		15.36	
HE20	MCS0	2	11	2462	106/54	11.80	11.50	14.66	3.80		18.46	
HE20	MCS0	2	12	2467	Full	12.40	12.20	15.31	3.80		19.11	
HE20	MCS0	2	12	2467	26/8	4.10	3.60	6.87	3.80		10.67	
HE20	MCS0	2	12	2467	52/40	7.10	6.70	9.91	3.80		13.71	
HE20	MCS0	2	12	2467	106/54	9.60	9.30	12.46	3.80		16.26	
HE20	MCS0	2	13	2472	Full	8.90	8.80	11.86	3.80		15.66	
HE20	MCS0	2	13	2472	26/8	-4.50	-5.20	-1.83	3.80		1.97	
HE20	MCS0	2	13	2472	52/40	-7.30	-8.00	-4.63	3.80		-0.83	
HE20	MCS0	2	13	2472	106/54	-5.30	-6.00	-2.63	3.80		1.17	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	1	1	2412	Full	-	-11.55		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	1	2412	26/0	-	-11.74		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	1	2412	52/37	-	-12.08		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	1	2412	106/53	-	-11.89		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	6	2437	Full	-	-10.90		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	6	2437	26/4	-	-11.83		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	6	2437	52/38	-	-11.61		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	6	2437	106/53	-	-11.91		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	11	2462	Full	-	-10.05		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	11	2462	26/8	-	-10.91		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	11	2462	52/40	-	-10.39		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	11	2462	106/54	-	-10.09		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	12	2467	Full	-	-13.95		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	12	2467	26/8	-	-14.15		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	12	2467	52/40	-	-14.19		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	12	2467	106/54	-	-14.94		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	13	2472	Full	-	-16.88		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	13	2472	26/8	-	-23.15		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	13	2472	52/40	-	-29.28		3.80	3.70	8.00	8.00	Pass
HE20	MCS0	1	13	2472	106/54	-	-29.16		3.80	3.70	8.00	8.00	Pass

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	2	1	2412	Full	-12.01	-12.81	-9.00	6.76		7.24		Pass
HE20	MCS0	2	1	2412	26/0	-12.04	-13.36	-9.03	6.76		7.24		Pass
HE20	MCS0	2	1	2412	52/37	-12.73	-12.44	-9.43	6.76		7.24		Pass
HE20	MCS0	2	1	2412	106/53	-12.21	-13.27	-9.20	6.76		7.24		Pass
HE20	MCS0	2	6	2437	Full	-10.19	-10.66	-7.18	6.76		7.24		Pass
HE20	MCS0	2	6	2437	26/4	-10.91	-10.33	-7.32	6.76		7.24		Pass
HE20	MCS0	2	6	2437	52/38	-10.41	-10.64	-7.40	6.76		7.24		Pass
HE20	MCS0	2	6	2437	106/53	-10.77	-10.61	-7.60	6.76		7.24		Pass
HE20	MCS0	2	11	2462	Full	-11.75	-11.79	-8.74	6.76		7.24		Pass
HE20	MCS0	2	11	2462	26/8	-12.24	-12.51	-9.23	6.76		7.24		Pass
HE20	MCS0	2	11	2462	52/40	-12.23	-12.60	-9.22	6.76		7.24		Pass
HE20	MCS0	2	11	2462	106/54	-12.41	-12.14	-9.13	6.76		7.24		Pass
HE20	MCS0	2	12	2467	Full	-14.16	-14.08	-11.07	6.76		7.24		Pass
HE20	MCS0	2	12	2467	26/8	-14.11	-14.49	-11.10	6.76		7.24		Pass
HE20	MCS0	2	12	2467	52/40	-14.32	-14.36	-11.31	6.76		7.24		Pass
HE20	MCS0	2	12	2467	106/54	-14.32	-14.29	-11.28	6.76		7.24		Pass
HE20	MCS0	2	13	2472	Full	-17.15	-17.36	-14.14	6.76		7.24		Pass
HE20	MCS0	2	13	2472	26/8	-24.07	-23.54	-20.53	6.76		7.24		Pass
HE20	MCS0	2	13	2472	52/40	-28.83	-29.46	-25.82	6.76		7.24		Pass
HE20	MCS0	2	13	2472	106/54	-29.30	-29.33	-26.29	6.76		7.24		Pass

Note: Measured power density (dBm) has offset with cable loss.



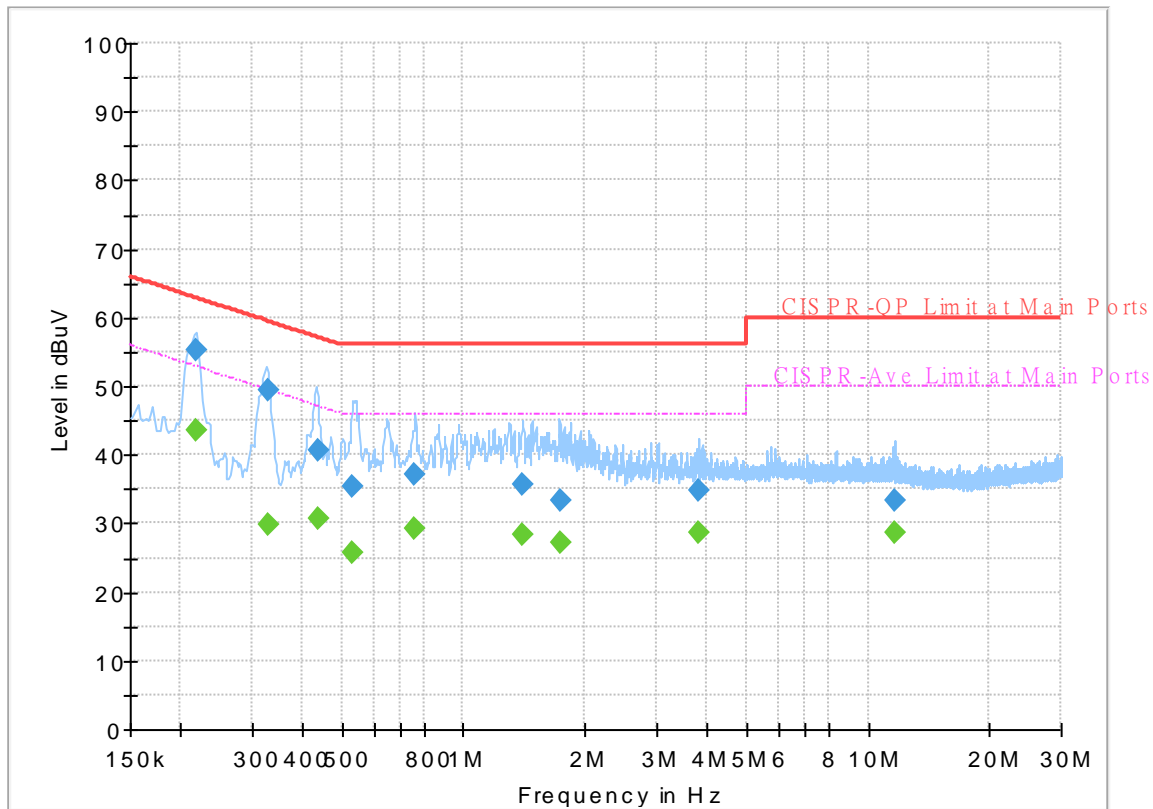
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	Temperature :	24~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 120202-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



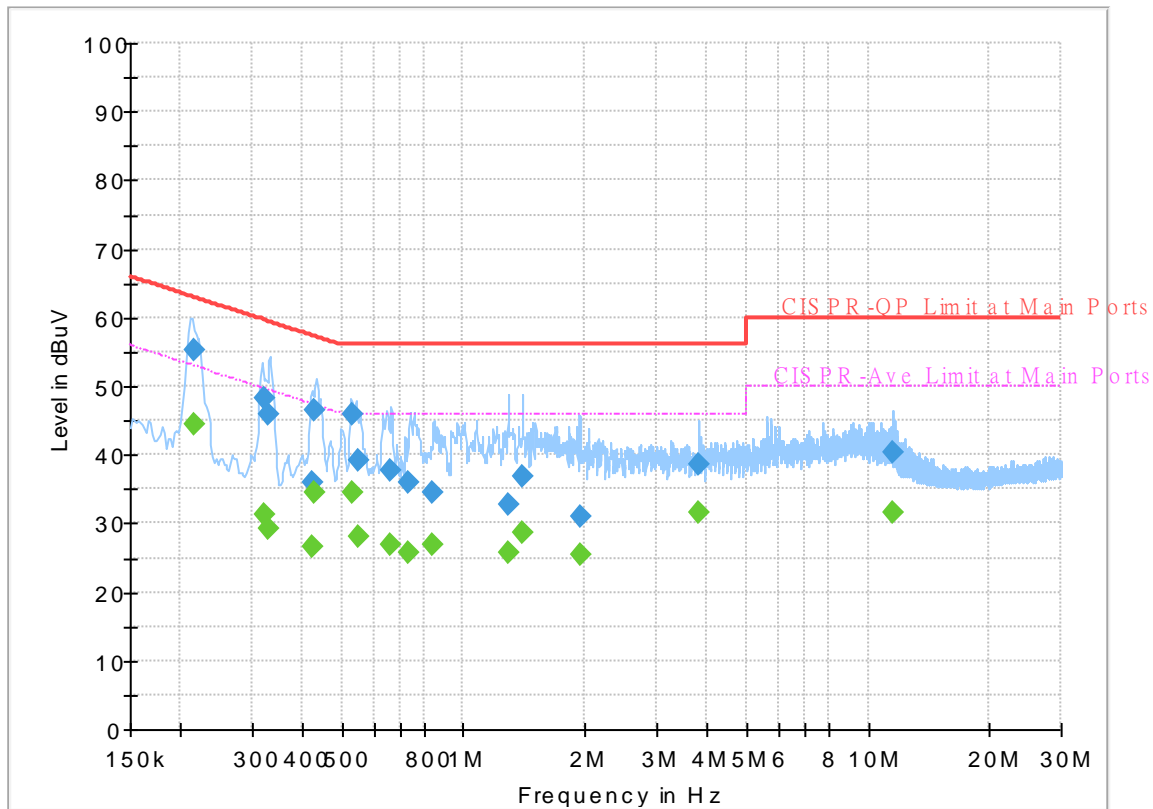
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.217230	---	43.71	52.92	9.21	L1	OFF	19.5
0.217230	55.34	---	62.92	7.58	L1	OFF	19.5
0.330000	---	29.76	49.45	19.69	L1	OFF	19.5
0.330000	49.33	---	59.45	10.12	L1	OFF	19.5
0.435750	---	30.64	47.14	16.50	L1	OFF	19.6
0.435750	40.52	---	57.14	16.62	L1	OFF	19.6
0.533310	---	25.84	46.00	20.16	L1	OFF	19.7
0.533310	35.50	---	56.00	20.50	L1	OFF	19.7
0.755250	---	29.19	46.00	16.81	L1	OFF	19.9
0.755250	37.01	---	56.00	18.99	L1	OFF	19.9
1.401000	---	28.32	46.00	17.68	L1	OFF	20.0
1.401000	35.77	---	56.00	20.23	L1	OFF	20.0
1.729500	---	27.28	46.00	18.72	L1	OFF	20.0
1.729500	33.42	---	56.00	22.58	L1	OFF	20.0
3.815520	---	28.61	46.00	17.39	L1	OFF	19.9
3.815520	34.91	---	56.00	21.09	L1	OFF	19.9
11.602050	---	28.56	50.00	21.44	L1	OFF	20.1
11.602050	33.33	---	60.00	26.67	L1	OFF	20.1

EUT Information

Report NO : 120202-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.215250	---	44.43	53.00	8.57	N	OFF	19.5
0.215250	55.21	---	63.00	7.79	N	OFF	19.5
0.321000	---	31.36	49.68	18.32	N	OFF	19.6
0.321000	48.21	---	59.68	11.47	N	OFF	19.6
0.327750	---	29.30	49.51	20.21	N	OFF	19.6
0.327750	46.05	---	59.51	13.46	N	OFF	19.6
0.422250	---	26.55	47.40	20.85	N	OFF	19.6
0.422250	35.84	---	57.40	21.56	N	OFF	19.6
0.429000	---	34.58	47.27	12.69	N	OFF	19.6
0.429000	46.45	---	57.27	10.82	N	OFF	19.6
0.532500	---	34.54	46.00	11.46	N	OFF	19.7
0.532500	45.99	---	56.00	10.01	N	OFF	19.7
0.551490	---	28.06	46.00	17.94	N	OFF	19.7
0.551490	39.15	---	56.00	16.85	N	OFF	19.7
0.659490	---	26.80	46.00	19.20	N	OFF	19.8
0.659490	37.62	---	56.00	18.38	N	OFF	19.8
0.735000	---	25.61	46.00	20.39	N	OFF	19.9
0.735000	36.01	---	56.00	19.99	N	OFF	19.9
0.838500	---	26.82	46.00	19.18	N	OFF	20.0
0.838500	34.61	---	56.00	21.39	N	OFF	20.0
1.288050	---	25.67	46.00	20.33	N	OFF	20.0

1.288050	32.89	---	56.00	23.11	N	OFF	20.0
1.403250	---	28.64	46.00	17.36	N	OFF	20.0
1.403250	36.83	---	56.00	19.17	N	OFF	20.0
1.938570	---	25.29	46.00	20.71	N	OFF	20.0
1.938570	31.07	---	56.00	24.93	N	OFF	20.0
3.819660	---	31.48	46.00	14.52	N	OFF	19.9
3.819660	38.69	---	56.00	17.31	N	OFF	19.9
11.458950	---	31.62	50.00	18.38	N	OFF	20.1
11.458950	40.45	---	60.00	19.55	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Harvey Guo, Fu Chen and Troye Hsieh	Temperature :	18.2~25.7°C
		Relative Humidity :	53.7~70.8%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2328.06	53.36	-20.64	74	42.2	27.64	17.01	33.49	100	112	P	H
		2386.65	43.66	-10.34	54	32.53	27.53	17.06	33.46	100	112	A	H
	*	2412	105.85	-	-	94.7	27.5	17.09	33.44	100	112	P	H
	*	2412	102.77	-	-	91.62	27.5	17.09	33.44	100	112	A	H
		2388.33	52.95	-21.05	74	41.83	27.52	17.06	33.46	300	96	P	V
		2387.07	42.43	-11.57	54	31.3	27.53	17.06	33.46	300	96	A	V
	*	2412	95.93	-	-	84.78	27.5	17.09	33.44	300	96	P	V
	*	2412	92.97	-	-	81.82	27.5	17.09	33.44	300	96	A	V
802.11b CH 06 2437MHz		2319.94	53.07	-20.93	74	41.9	27.66	17	33.49	110	147	P	H
		2385.74	42.53	-11.47	54	31.4	27.53	17.06	33.46	110	147	A	H
	*	2436	107.3	-	-	96.1	27.5	17.13	33.43	110	147	P	H
	*	2438	104.24	-	-	93.04	27.5	17.13	33.43	110	147	A	H
		2494.4	52.88	-21.12	74	41.65	27.41	17.22	33.4	110	147	P	H
		2485.36	42.59	-11.41	54	31.37	27.43	17.2	33.41	110	147	A	H
		2367.96	53.52	-20.48	74	42.39	27.56	17.04	33.47	291	94	P	V
		2346.26	42.35	-11.65	54	31.2	27.61	17.02	33.48	291	94	A	V
	*	2437	95.28	-	-	84.08	27.5	17.13	33.43	291	94	P	V
	*	2437	92.07	-	-	80.87	27.5	17.13	33.43	291	94	A	V
		2485.92	52.51	-21.49	74	41.29	27.43	17.2	33.41	291	94	P	V
		2499.76	42.51	-11.49	54	31.29	27.4	17.22	33.4	291	94	A	V



802.11b CH 11 2462MHz	*	2462	106.59	-	-	95.36	27.48	17.17	33.42	100	353	P	H
	*	2462	103.41	-	-	92.18	27.48	17.17	33.42	100	353	A	H
		2488.92	53.88	-20.12	74	42.66	27.42	17.21	33.41	100	353	P	H
		2483.52	44.46	-9.54	54	33.24	27.43	17.2	33.41	100	353	A	H
	*	2462	95.02	-	-	83.79	27.48	17.17	33.42	350	153	P	V
	*	2462	91.86	-	-	80.63	27.48	17.17	33.42	350	153	A	V
		2490.2	53.31	-20.69	74	42.08	27.42	17.21	33.4	350	153	P	V
		2483.76	42.51	-11.49	54	31.29	27.43	17.2	33.41	350	153	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												