

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Audio Transcribe And Summarize AI Phone Holder

Test Model: AI-RS01

Environmental Conditions

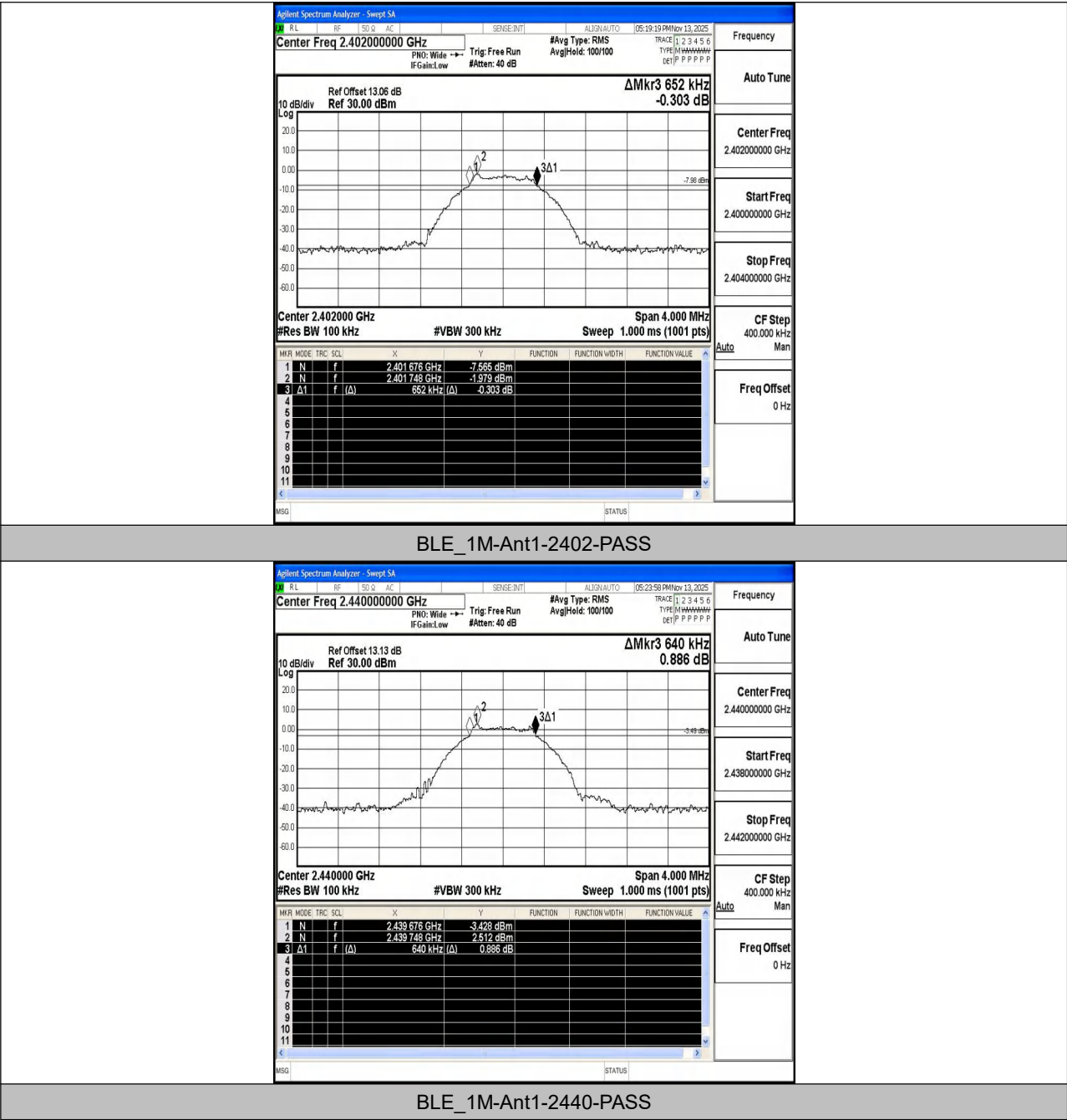
Temperature:	23.6°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

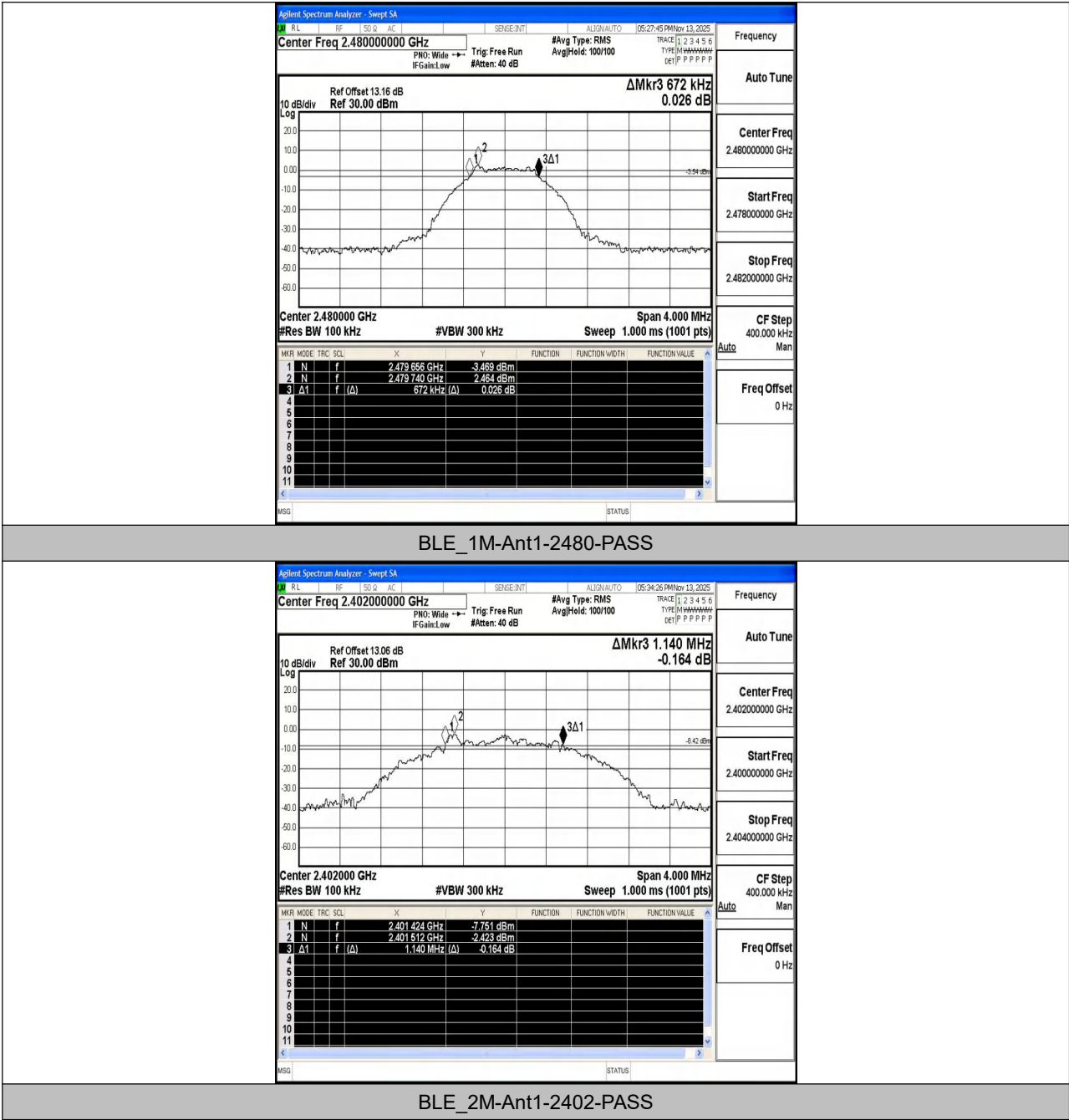
A.1 -6dB Bandwidth

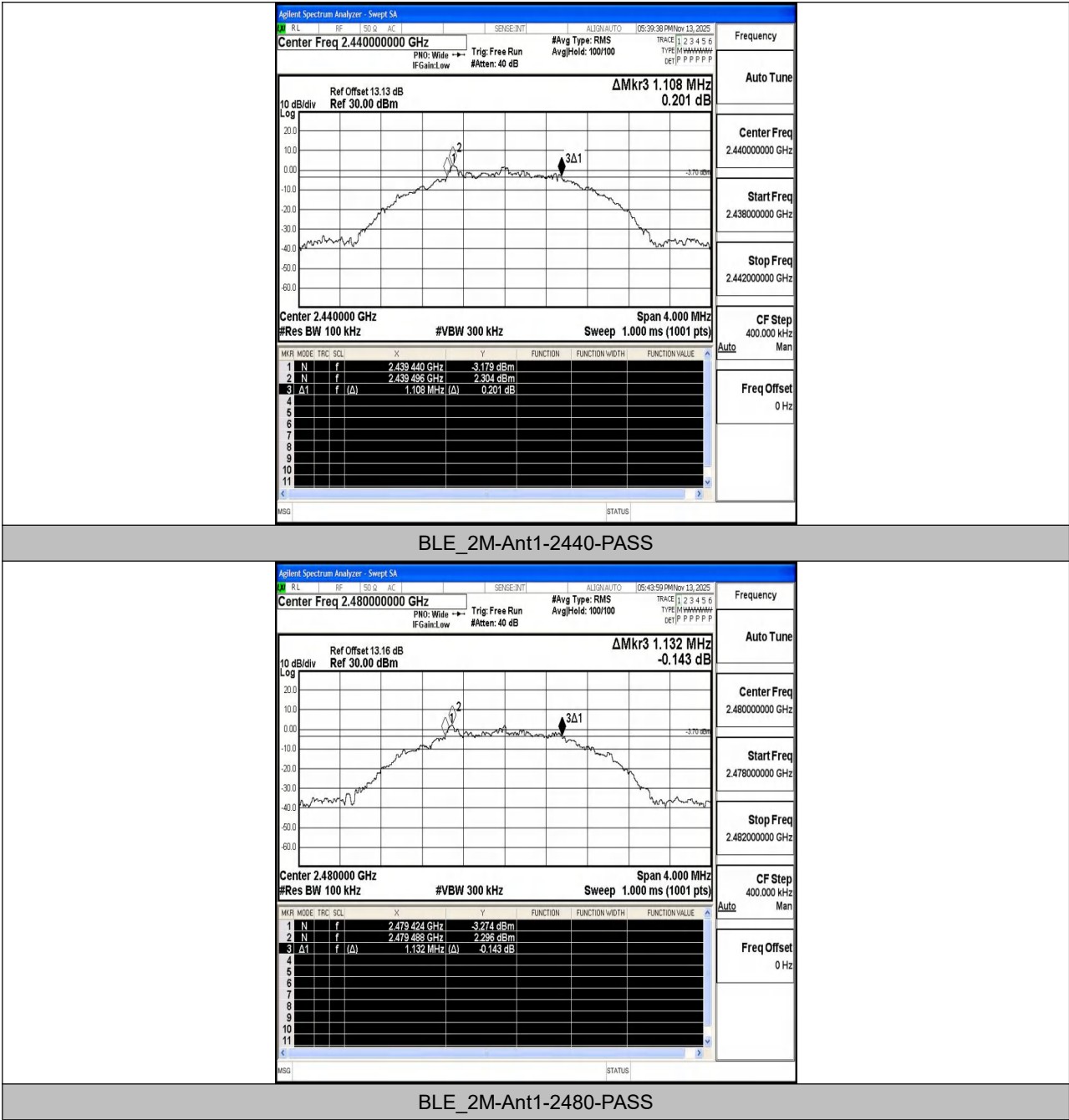
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.676	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.640	2439.676	2440.316	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.656	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.424	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.440	2440.548	0.5	PASS
BLE_2M	Ant1	2480	1.132	2479.424	2480.556	0.5	PASS

Test Graphs





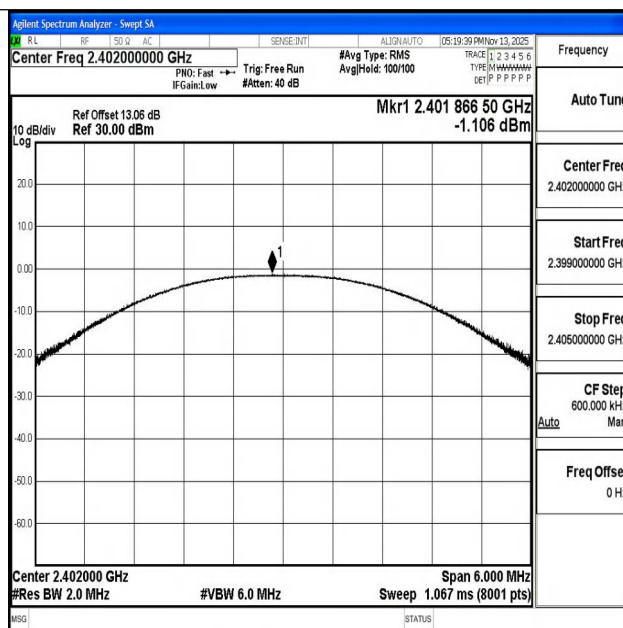


A.2 Maximum Peak Conducted Output Power

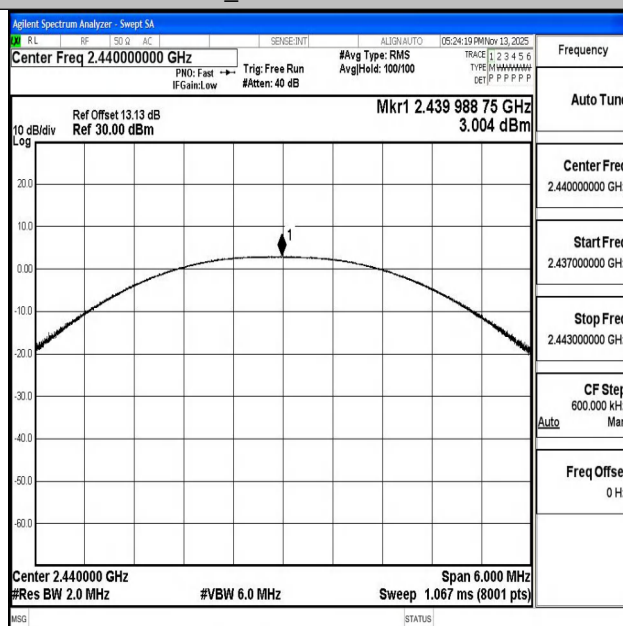
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.11	≤30	PASS
BLE_1M	Ant1	2440	3.00	≤30	PASS
BLE_1M	Ant1	2480	3.19	≤30	PASS
BLE_2M	Ant1	2402	-1.33	≤30	PASS
BLE_2M	Ant1	2440	2.91	≤30	PASS
BLE_2M	Ant1	2480	3.07	≤30	PASS

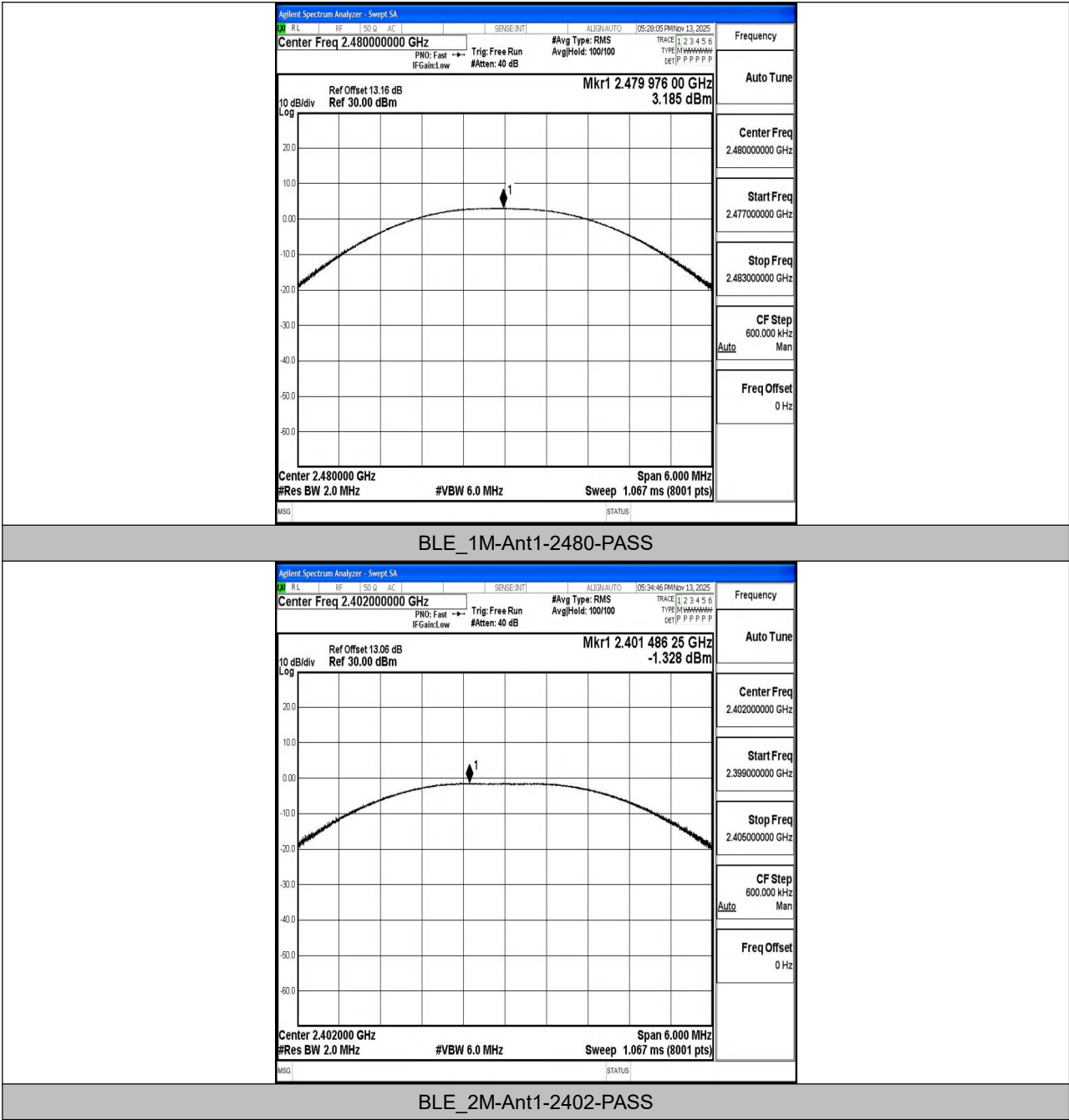
Test Graphs Peak

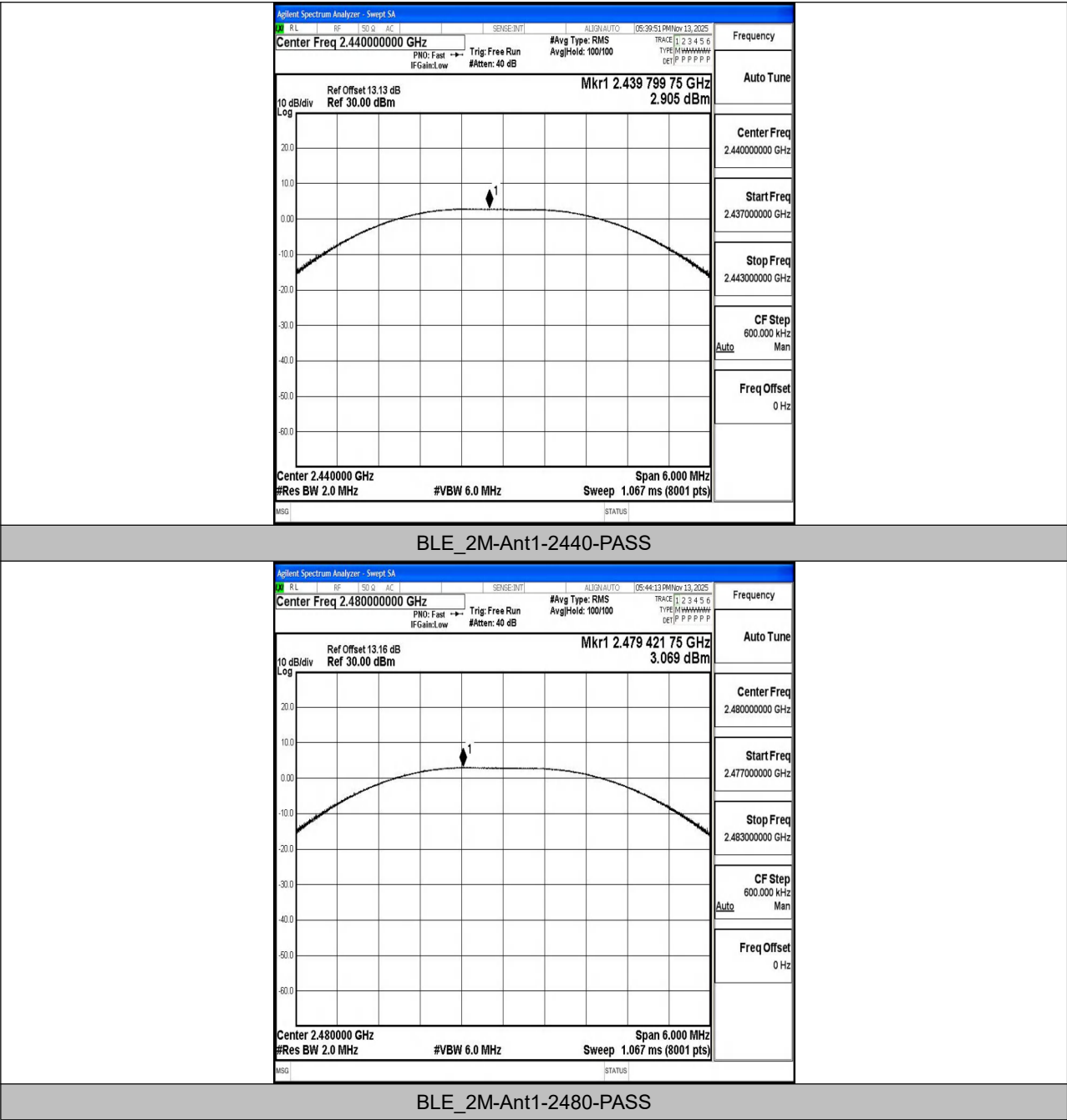


BLE 1M-Ant1-2402-PASS



BLE 1M-Ant1-2440-PASS



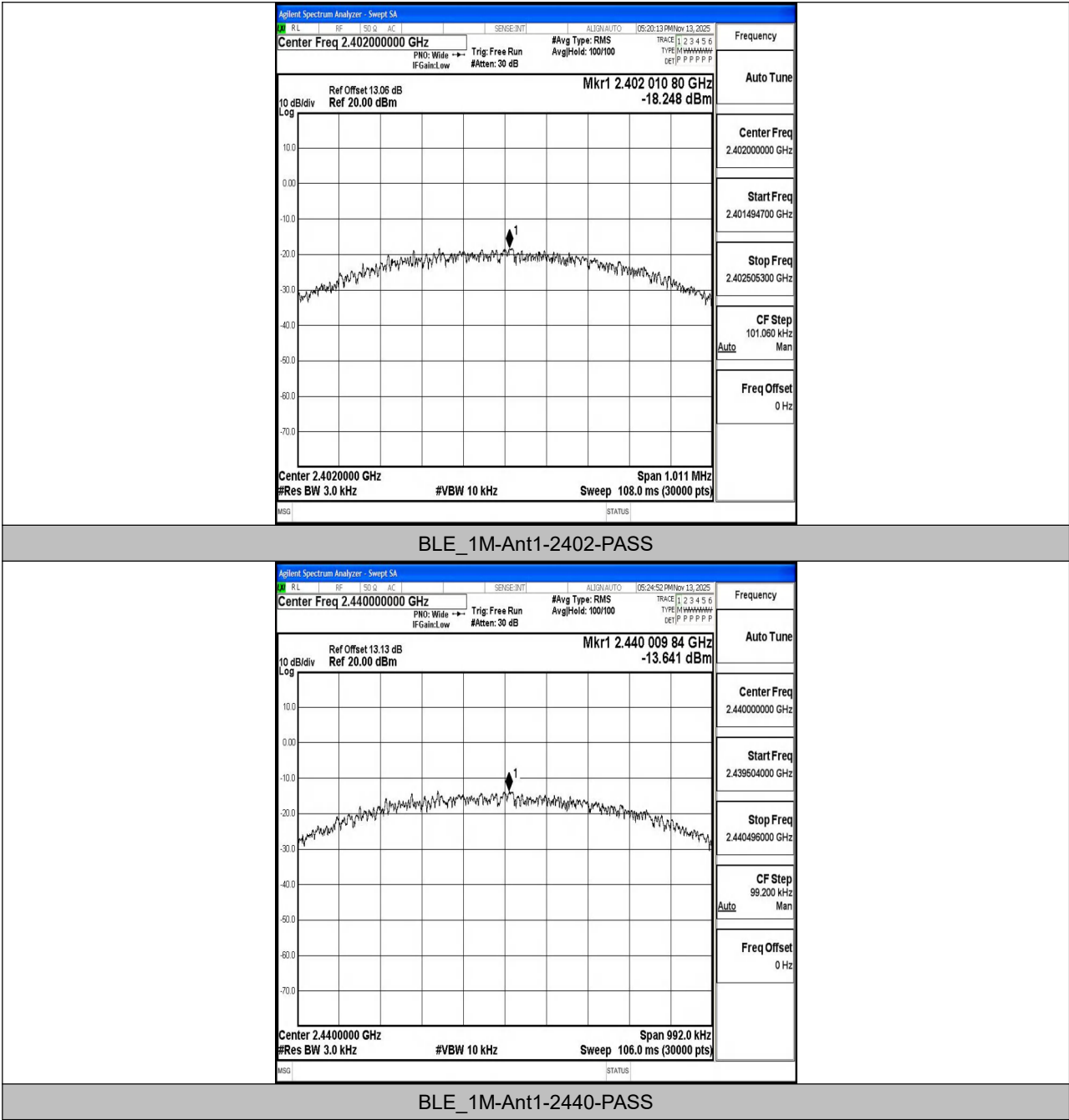


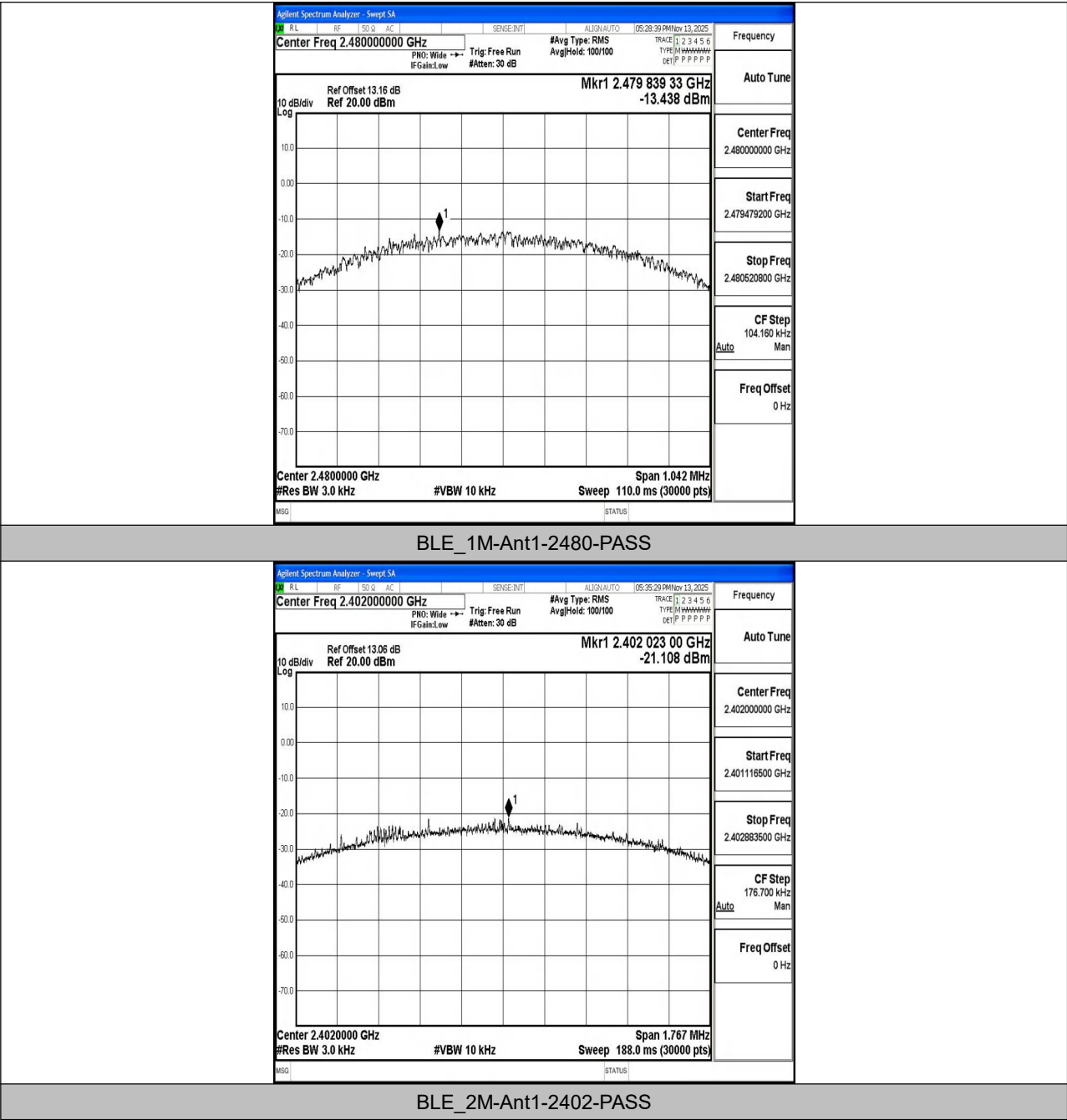
A.3 Maximum Power Spectral Density Level

Test Result

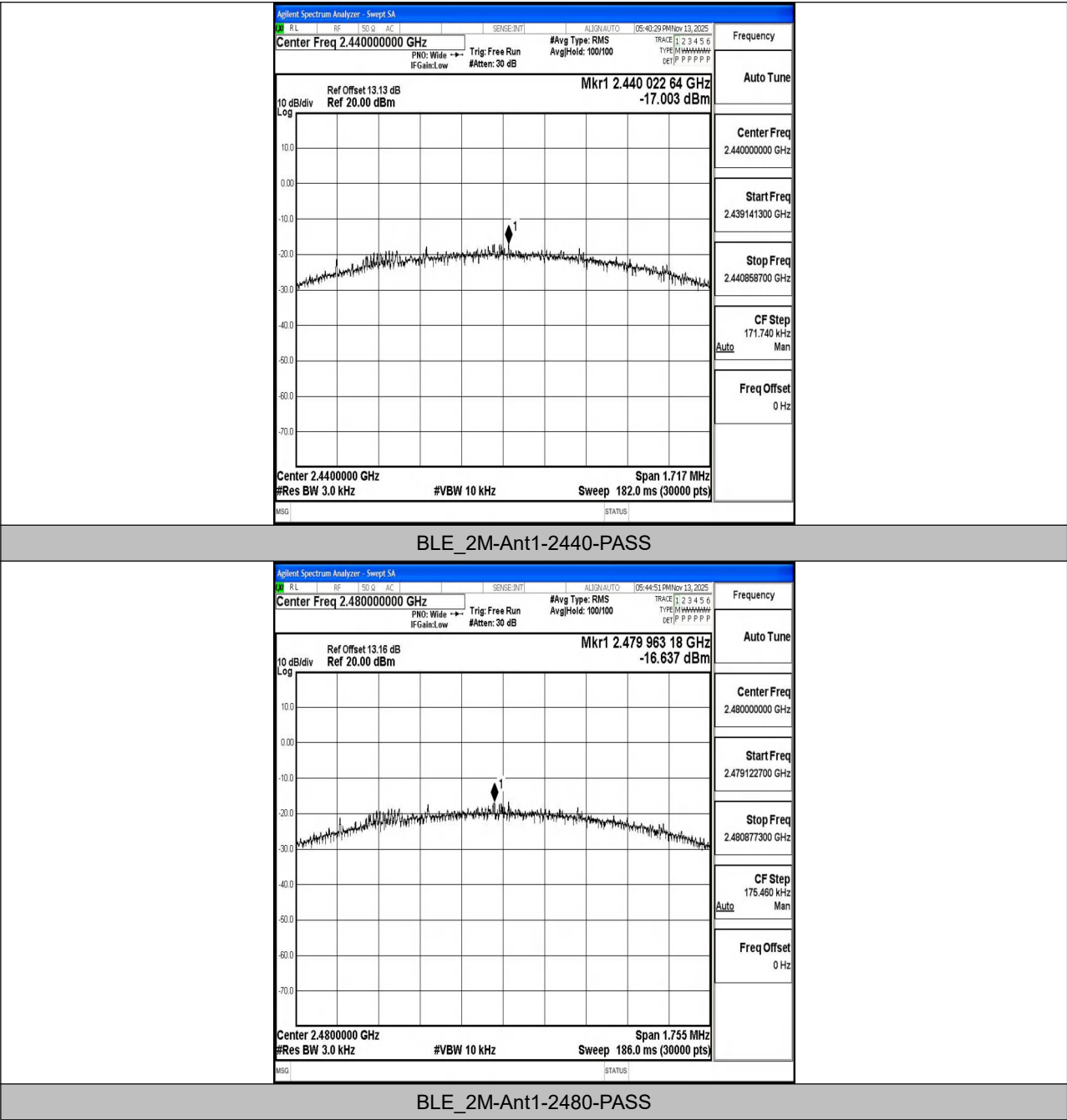
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.25	≤8.00	PASS
BLE_1M	Ant1	2440	-13.64	≤8.00	PASS
BLE_1M	Ant1	2480	-13.44	≤8.00	PASS
BLE_2M	Ant1	2402	-21.11	≤8.00	PASS
BLE_2M	Ant1	2440	-17.00	≤8.00	PASS
BLE_2M	Ant1	2480	-16.64	≤8.00	PASS

Test Graphs





BLE_2M-Ant1-2402-PASS

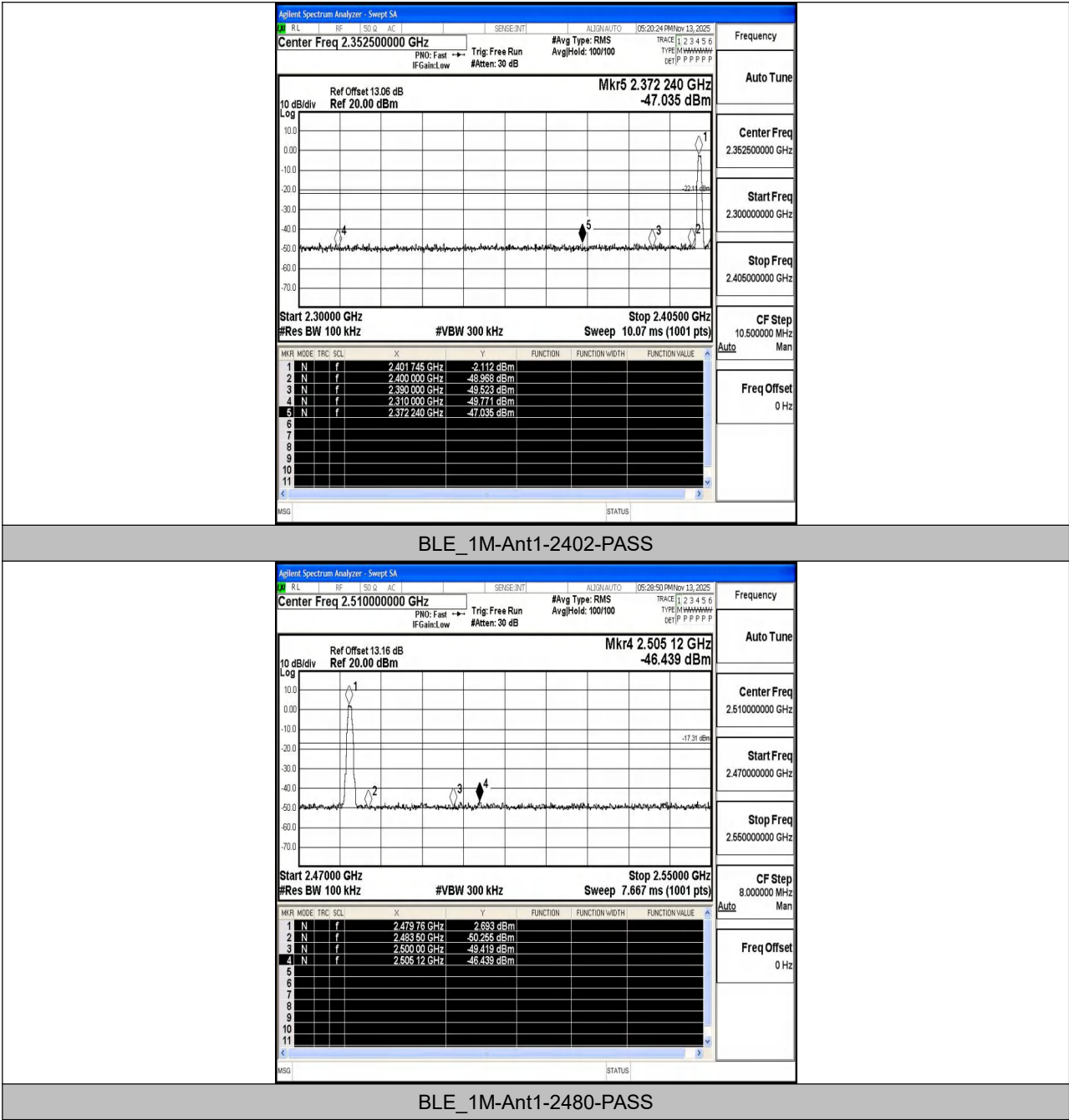


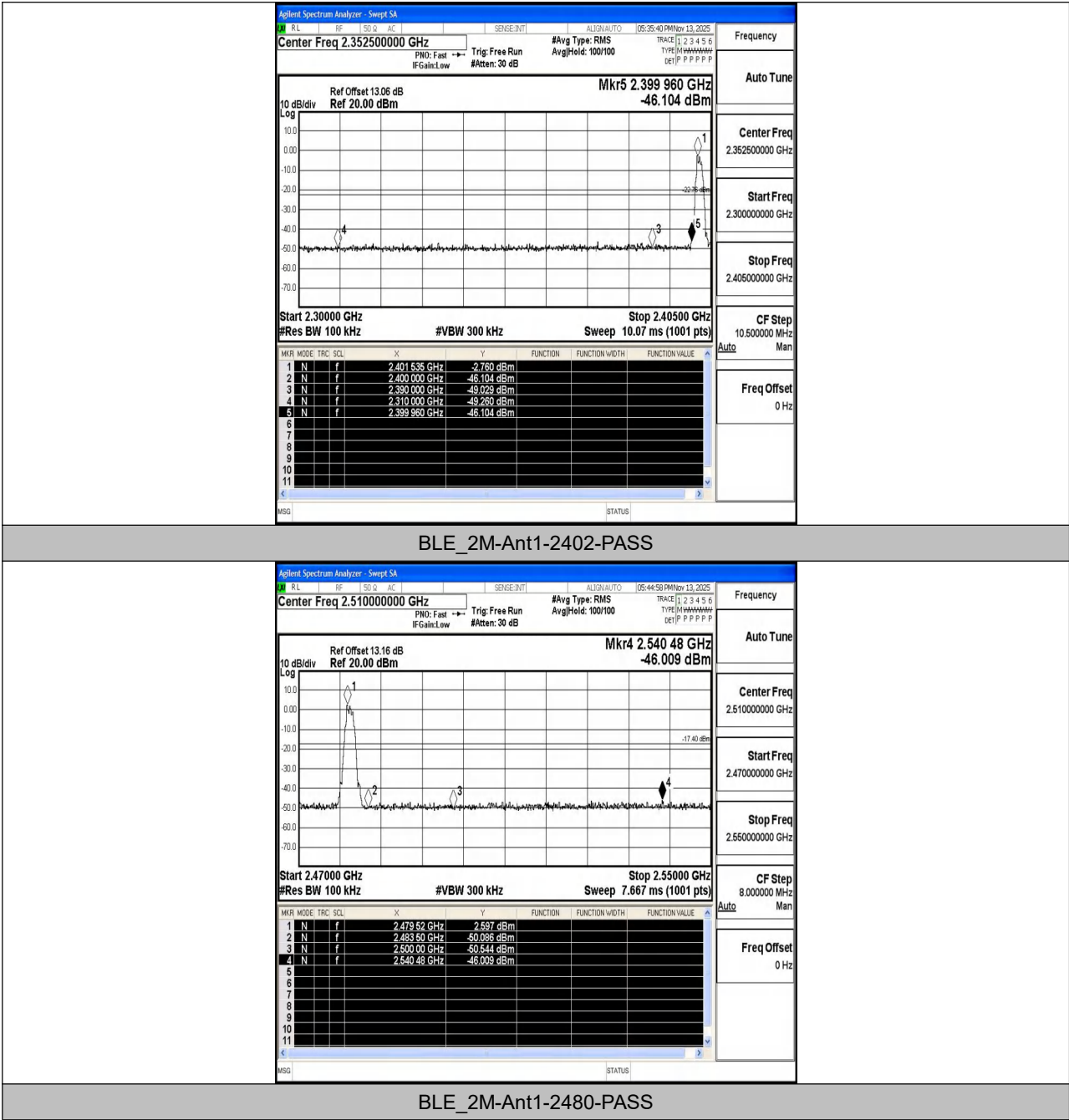
A.4 Band Edge

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.11	-47.04	≤-22.11	PASS
BLE_1M	Ant1	High	2480	2.69	-46.44	≤-17.31	PASS
BLE_2M	Ant1	Low	2402	-2.76	-46.1	≤-22.76	PASS
BLE_2M	Ant1	High	2480	2.60	-46.01	≤-17.4	PASS

Test Graphs



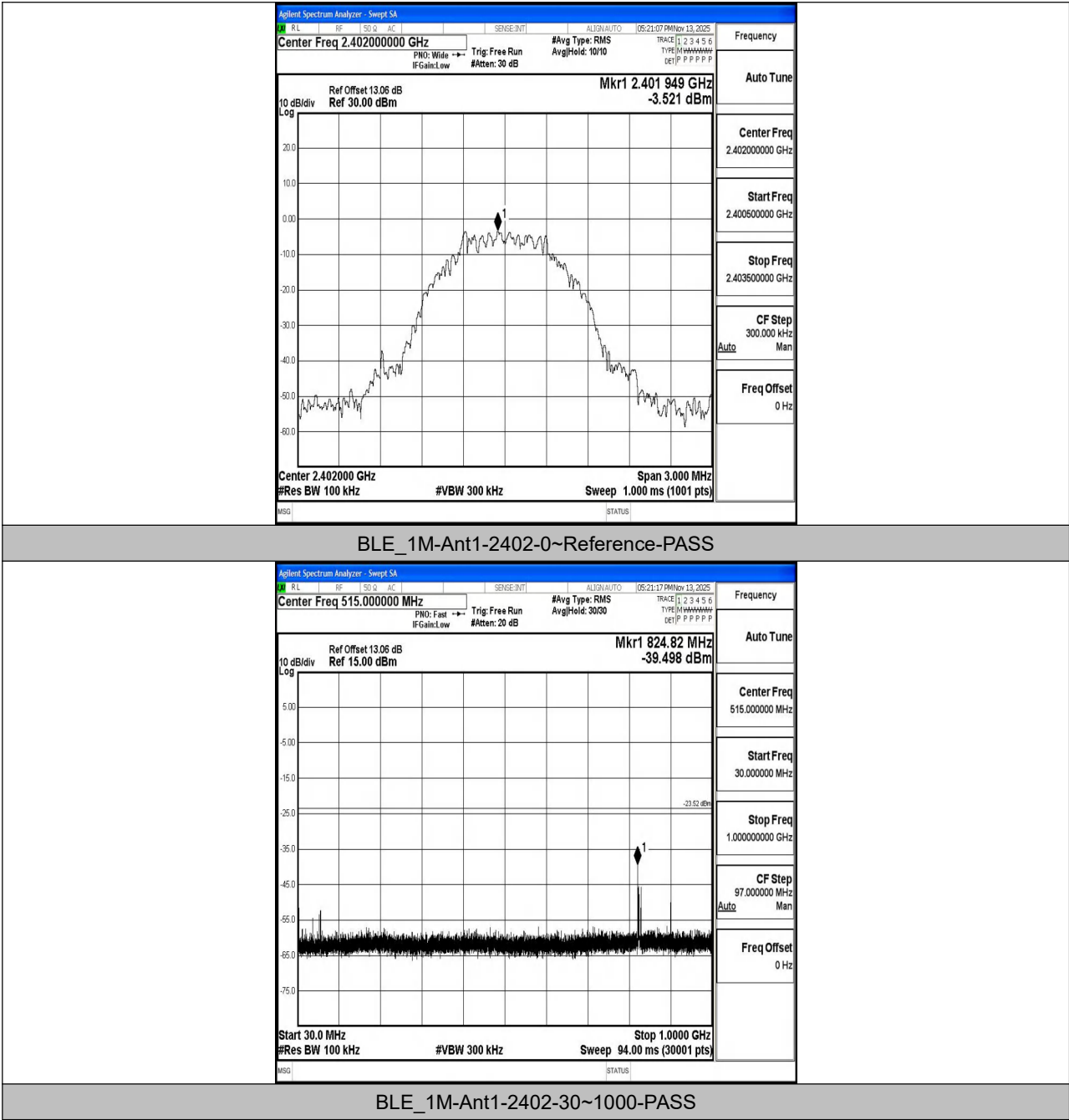


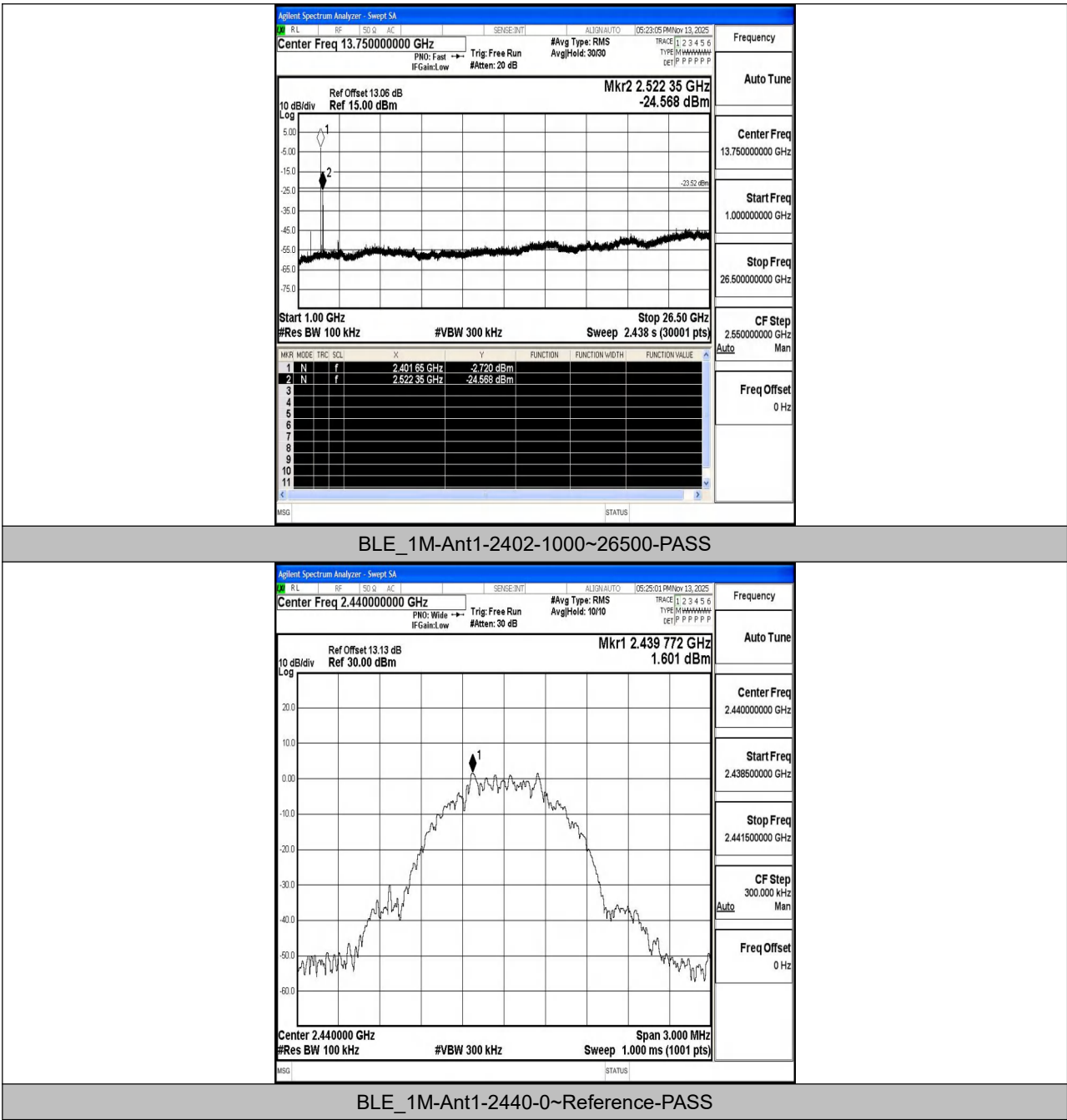
A.5 Conducted RF Spurious Emission

Test Result

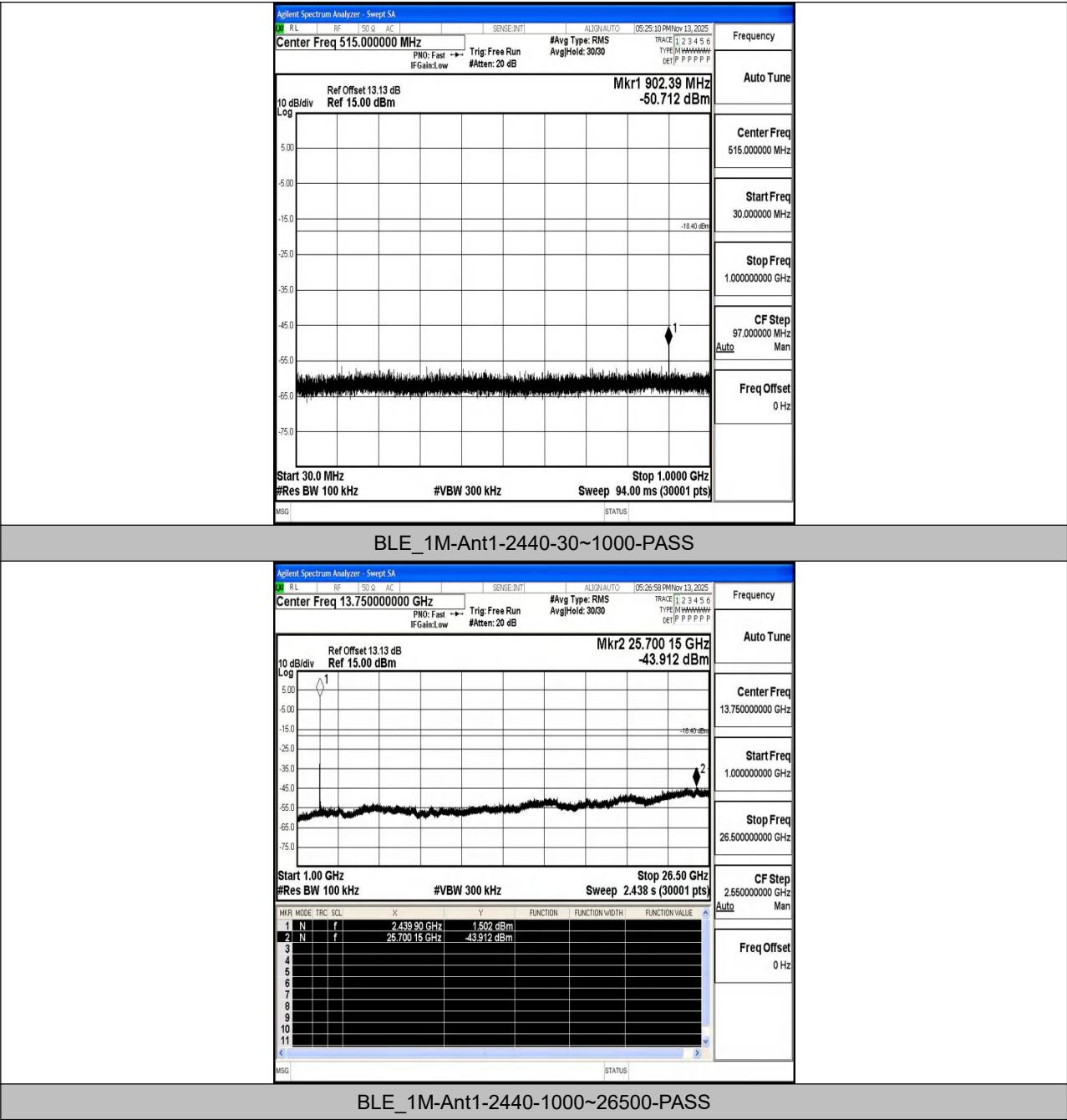
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.52	-3.52	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.52	-39.5	≤-23.52	PASS
BLE_1M	Ant1	2402	1000~26500	-3.52	-24.57	≤-23.52	PASS
BLE_1M	Ant1	2440	0~Reference	1.60	1.60	---	PASS
BLE_1M	Ant1	2440	30~1000	1.60	-50.71	≤-18.4	PASS
BLE_1M	Ant1	2440	1000~26500	1.60	-43.91	≤-18.4	PASS
BLE_1M	Ant1	2480	0~Reference	1.23	1.23	---	PASS
BLE_1M	Ant1	2480	30~1000	1.23	-54.12	≤-18.77	PASS
BLE_1M	Ant1	2480	1000~26500	1.23	-43.33	≤-18.77	PASS
BLE_2M	Ant1	2402	0~Reference	-2.66	-2.66	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.66	-56.3	≤-22.66	PASS
BLE_2M	Ant1	2402	1000~26500	-2.66	-44.3	≤-22.66	PASS
BLE_2M	Ant1	2440	0~Reference	-0.64	-0.64	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.64	-56.55	≤-20.64	PASS
BLE_2M	Ant1	2440	1000~26500	-0.64	-44.42	≤-20.64	PASS
BLE_2M	Ant1	2480	0~Reference	0.76	0.76	---	PASS
BLE_2M	Ant1	2480	30~1000	0.76	-57.01	≤-19.24	PASS
BLE_2M	Ant1	2480	1000~26500	0.76	-44.47	≤-19.24	PASS

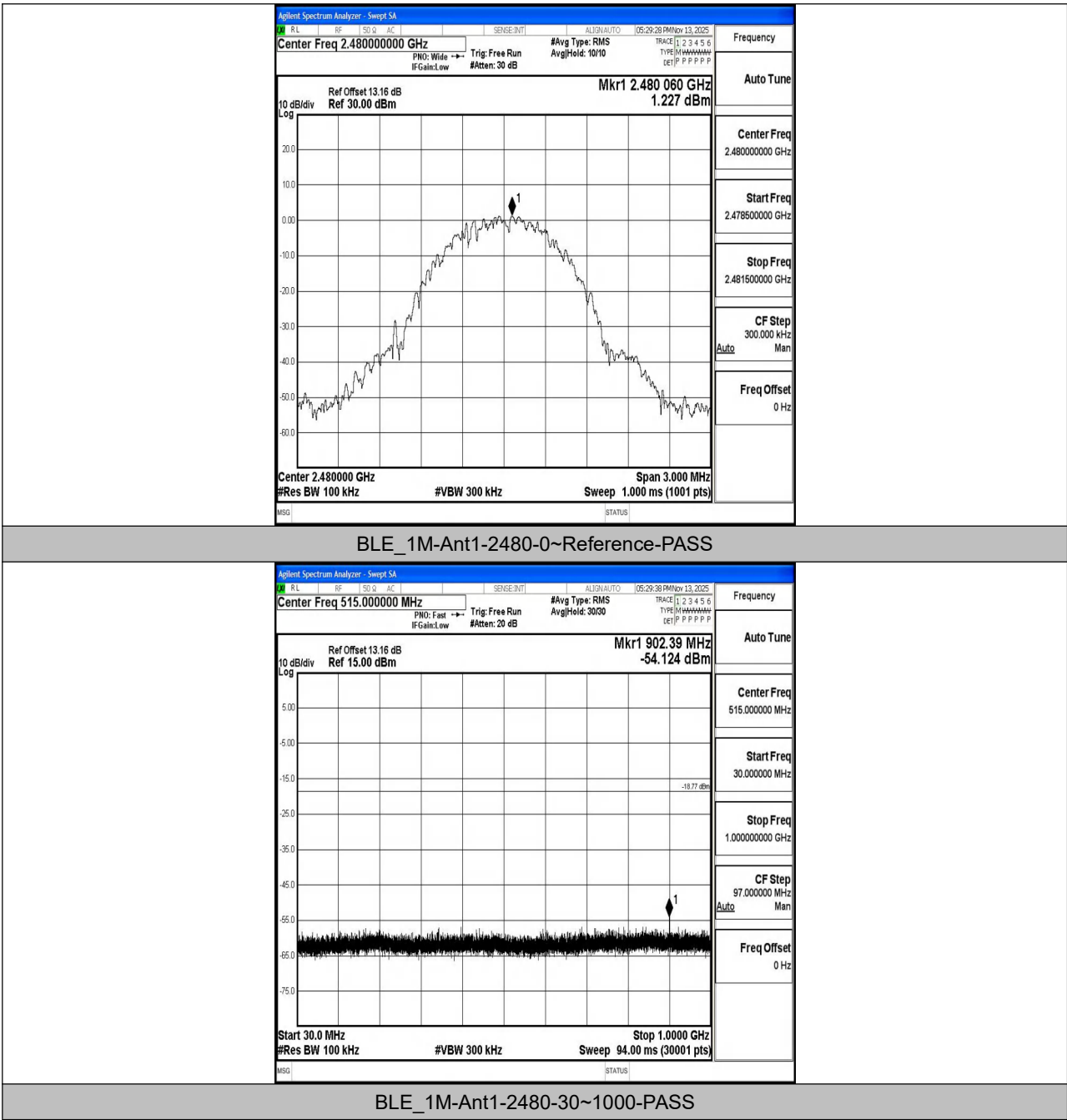
Test Graphs

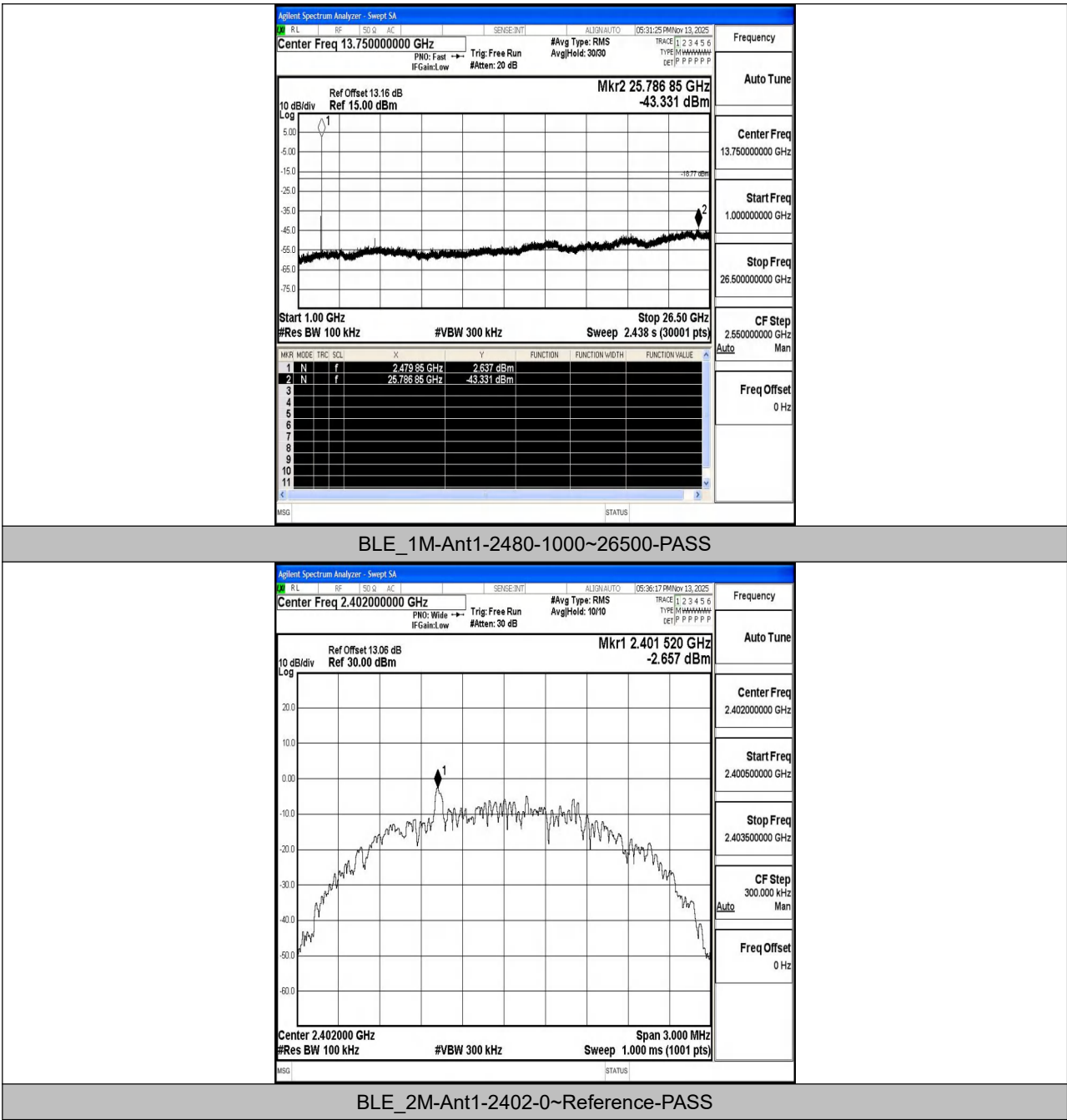




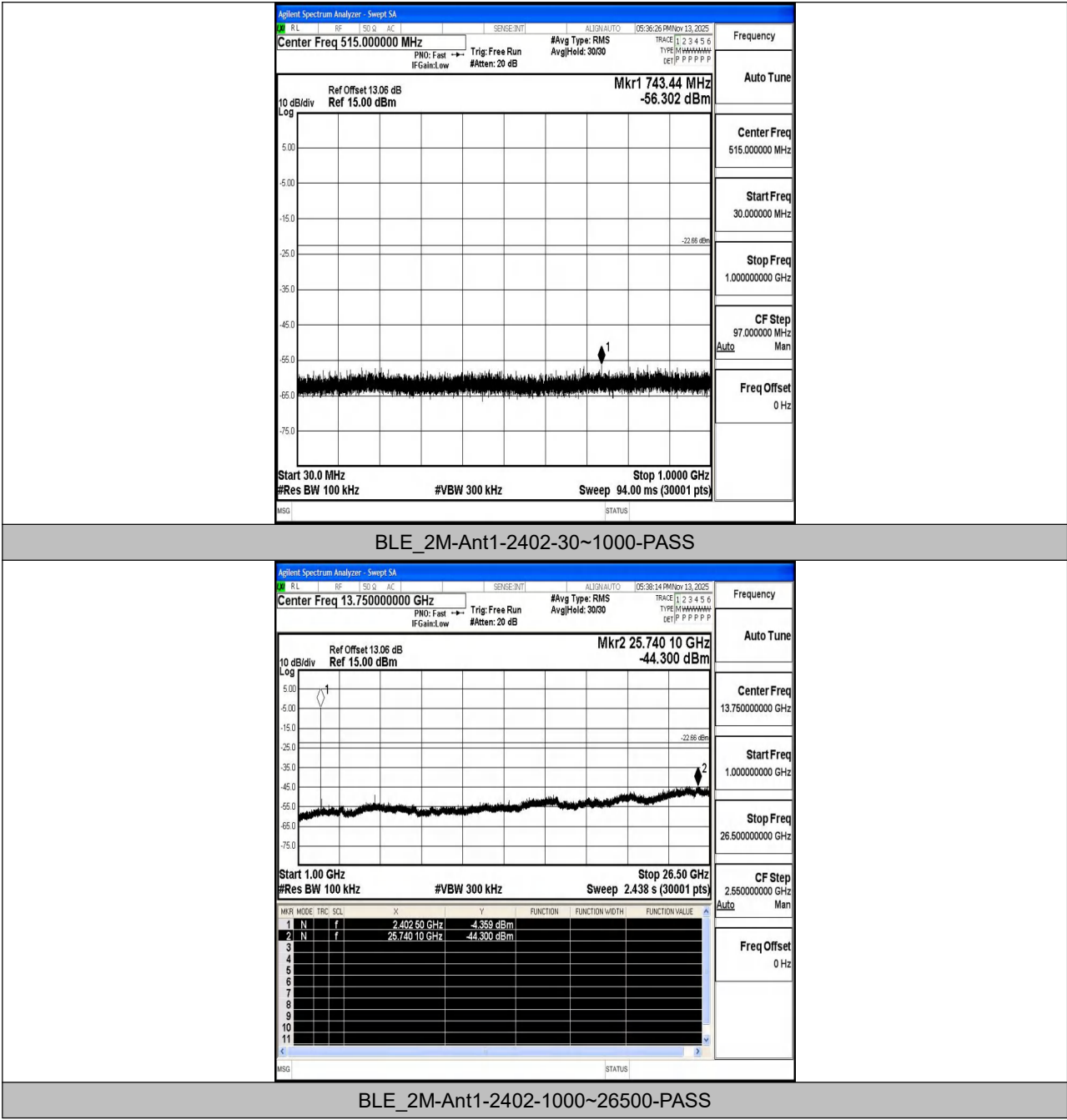
BLE_1M-Ant1-2440-0~Reference-PASS

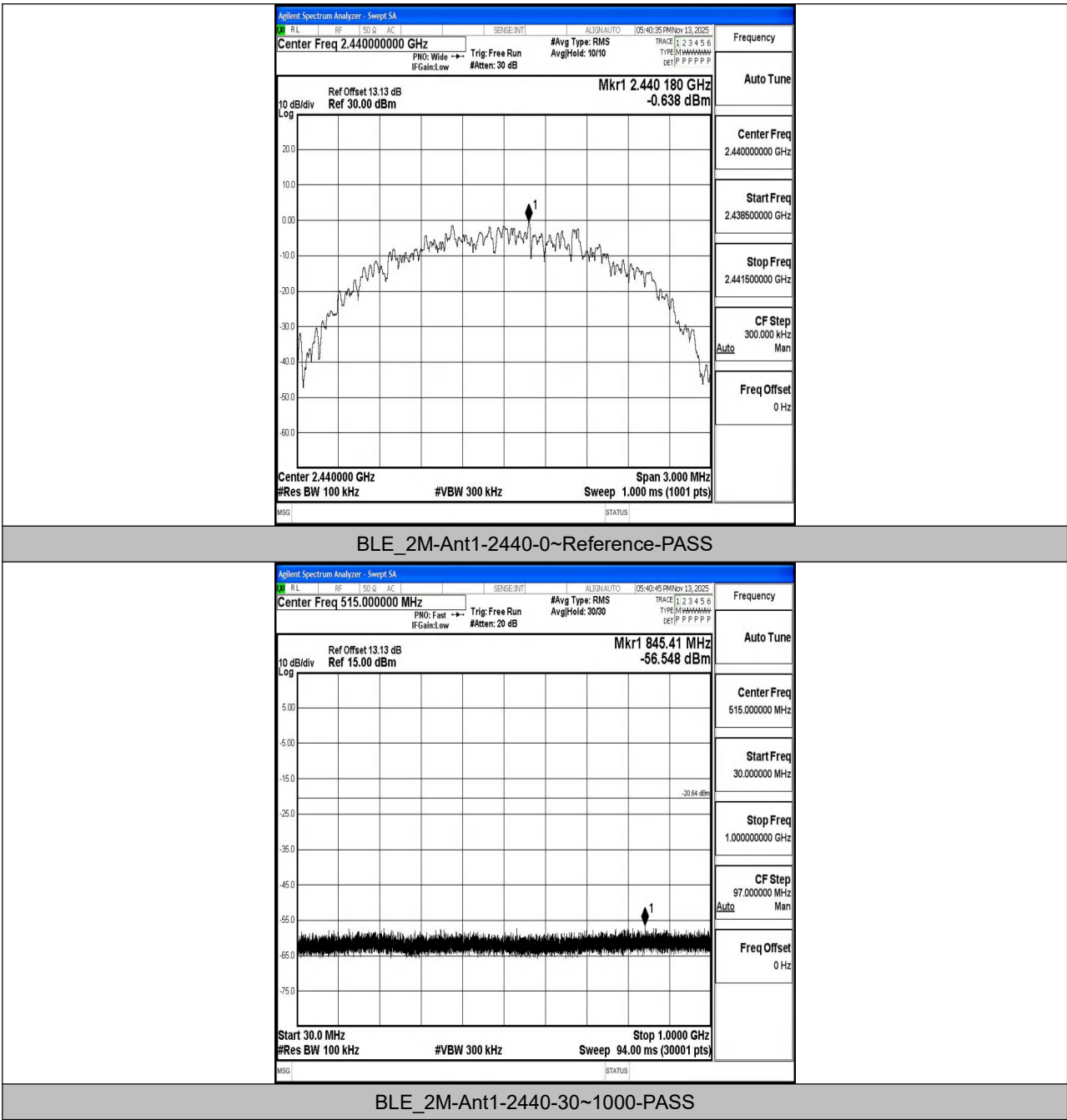


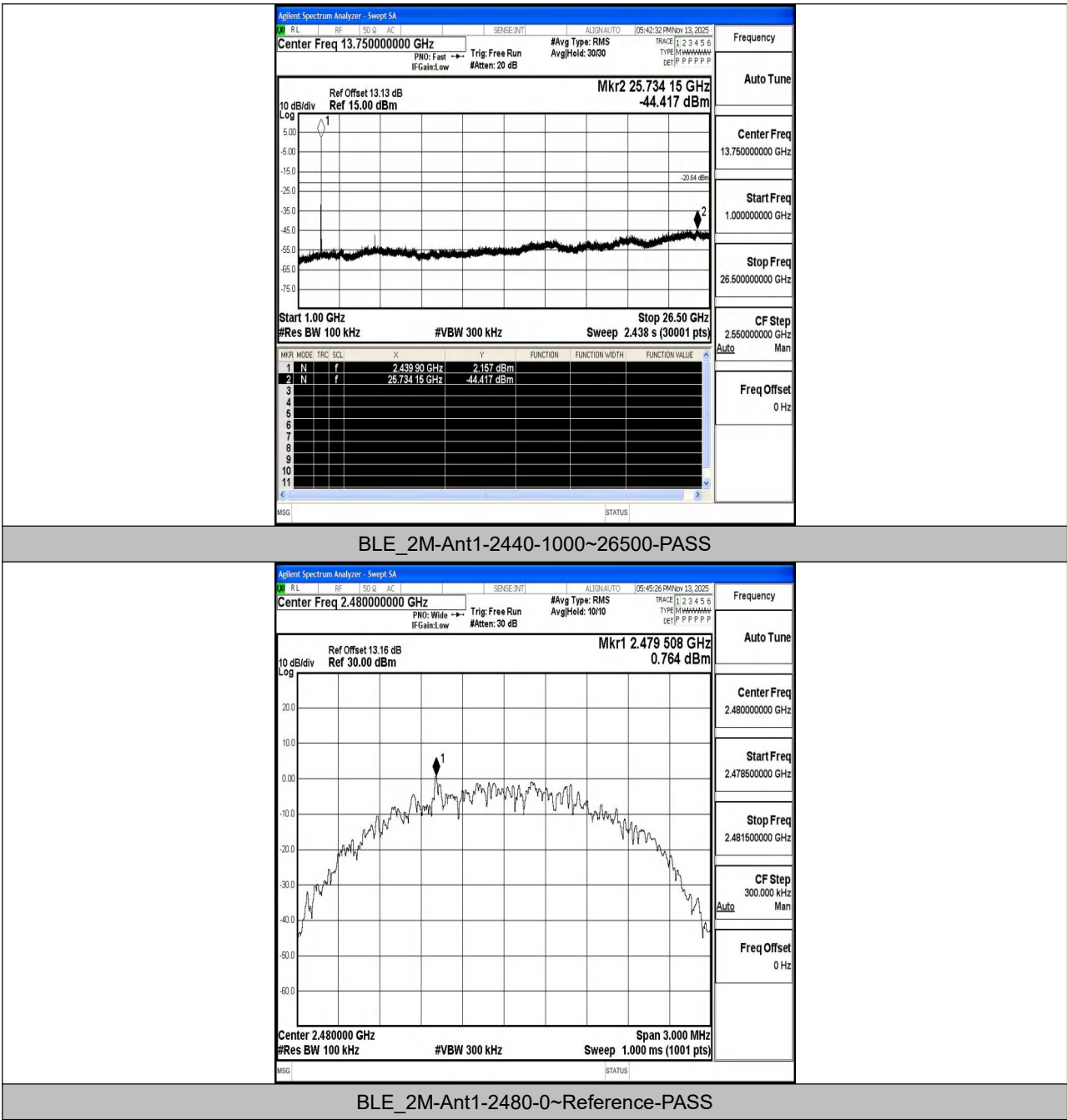




BLE_2M-Ant1-2402-0~Reference-PASS







Agilent Spectrum Analyzer - Sweep SA

RL

RF

50 Ω

AC

SENSE:INT

ALIGN:AUTO

05:45:25 PM Nov 13, 2025

Center Freq 2.480000000 GHz

PNO: Wide

IF Gain: Low

Trig: Free Run

#Atten: 30 dB

#Avg Type: RMS

Avg Hold: 10/10

TRACE 1 2 3 4 5 6

TYPE: [M] [W] [W] [W] [W] [W]

DE[P] P P P P P

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.478500000 GHz

Stop Freq
2.481500000 GHz

CF Step
300.000 kHz

Auto Man

Freq Offset
0 Hz

Ref Offset 13.16 dB

Ref 30.00 dBm

Mkr1 2.479 508 GHz
0.764 dBm

10 dB/div

Log

20.0

10.0

0.0

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

Center 2.480000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 3.000 MHz

Sweep 1.000 ms (1001 pts)

MNR MODE TRC SCL

1

N

f

2.479 508 GHz

0.764 dBm

2

3

4

5

6

7

8

9

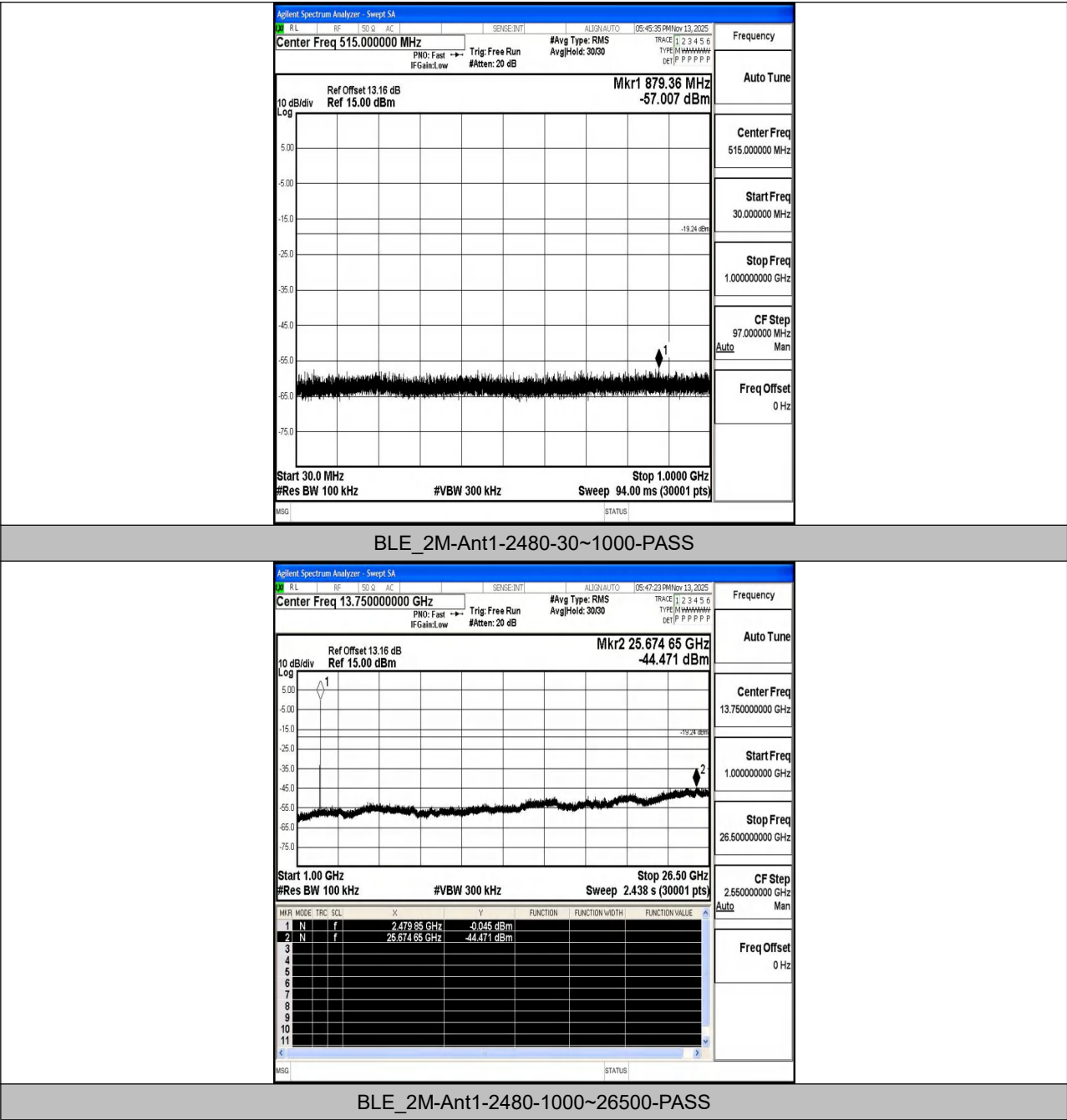
10

11

MSG

STATUS

BLE_2M-Ant1-2480-0~Reference-PASS

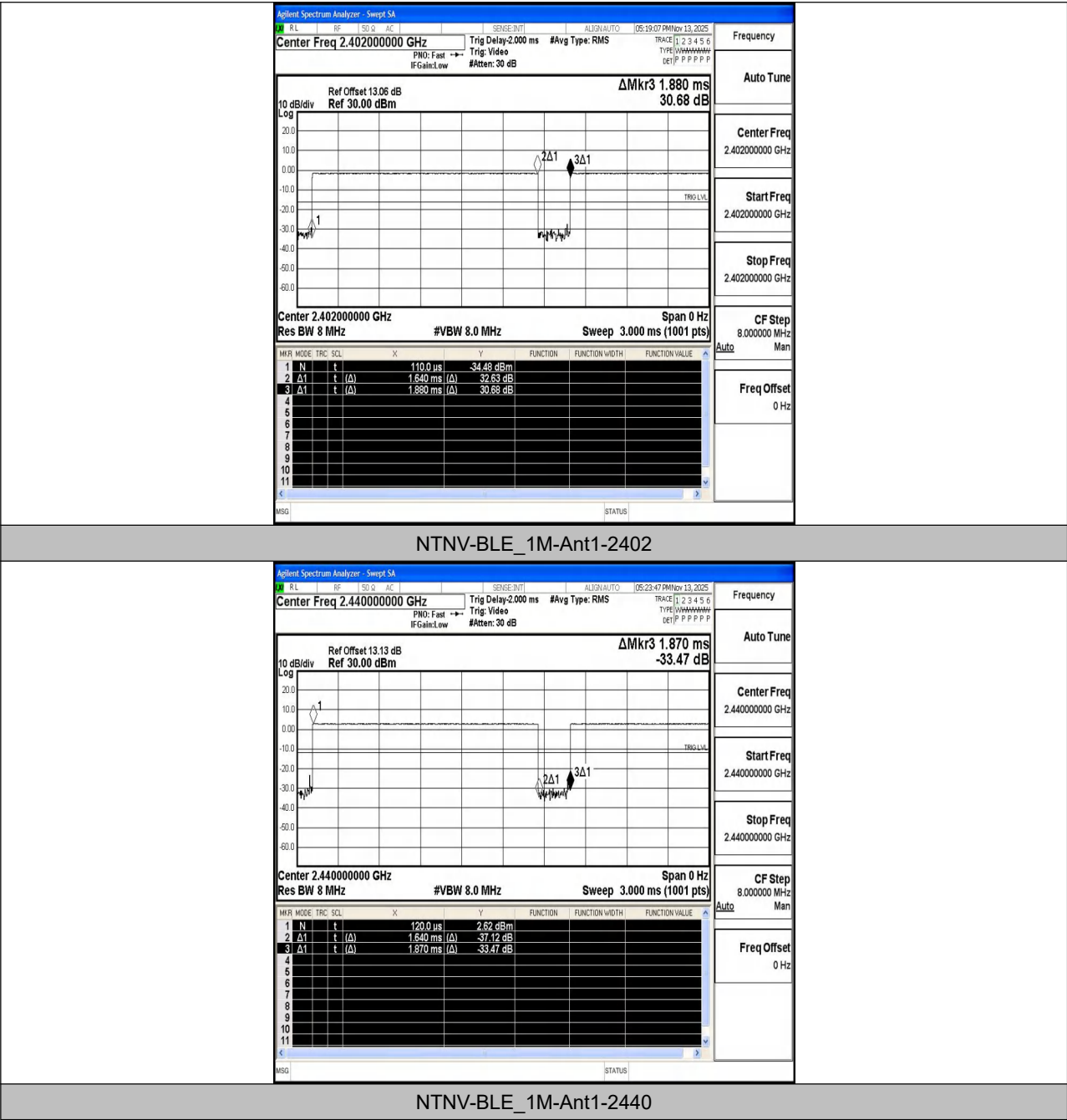


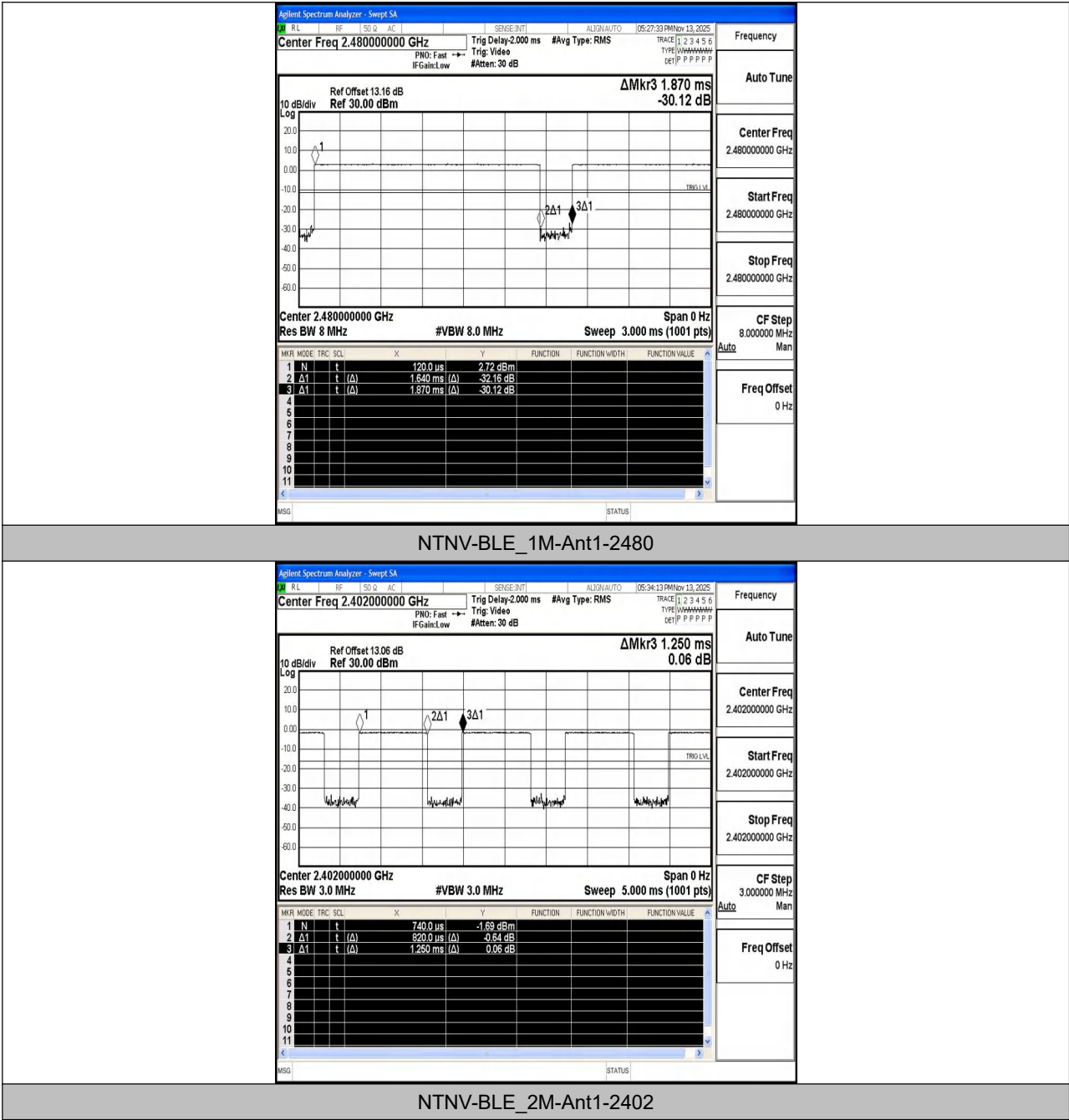
A.6 Duty Cycle

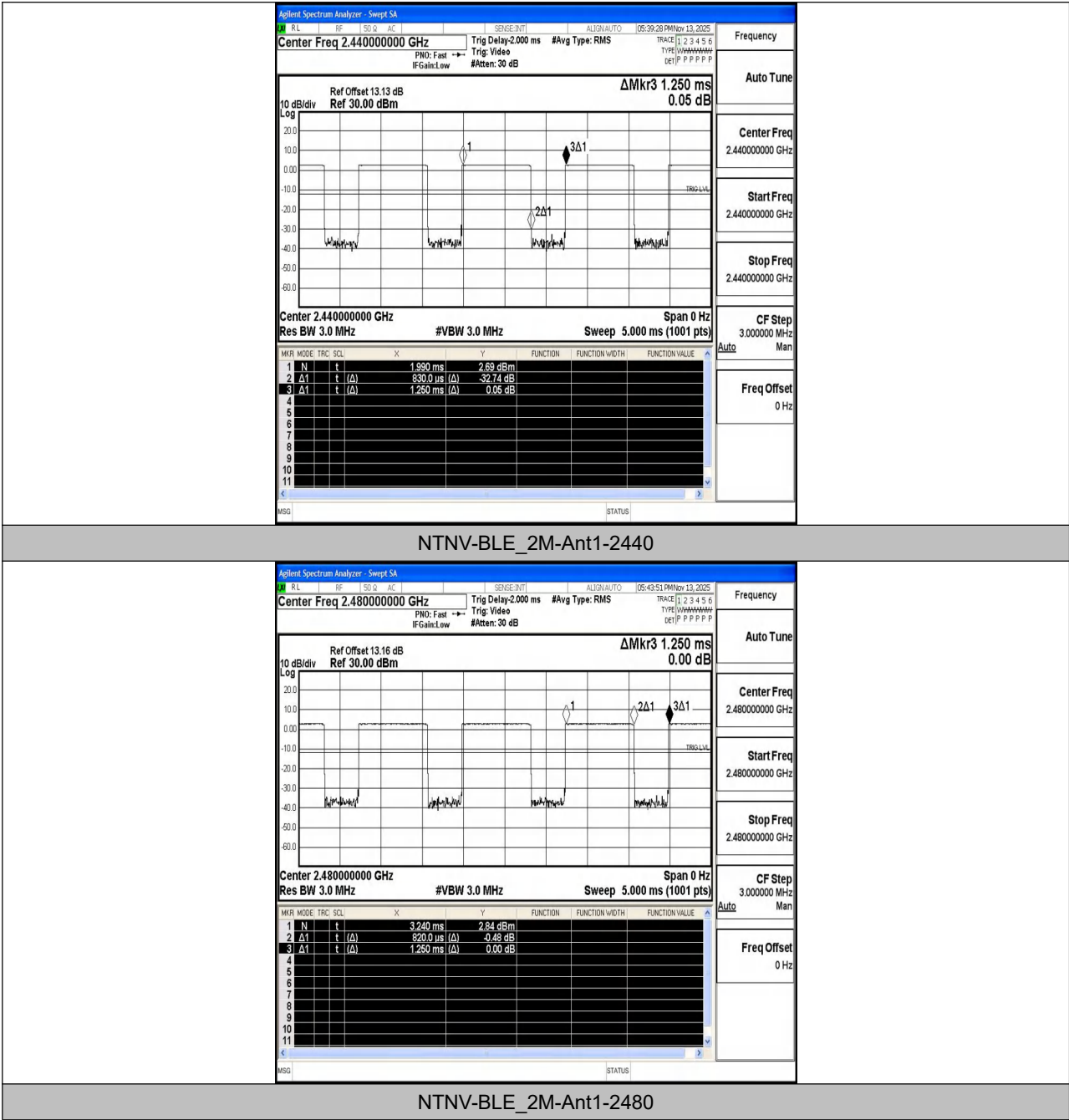
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.64	1.88	87.23	0.59
BLE_1M	Ant1	2440	1.64	1.87	87.70	0.57
BLE_1M	Ant1	2480	1.64	1.87	87.70	0.57
BLE_2M	Ant1	2402	0.82	1.25	65.60	1.83
BLE_2M	Ant1	2440	0.83	1.25	66.40	1.78
BLE_2M	Ant1	2480	0.82	1.25	65.60	1.83

Test Graphs







NTNV-BLE_2M-Ant1-2480

A.7 Restrict Band

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	Peak	2390.000	-37.46	≤-21.20	57.74	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2310.000	-39.45	≤-21.20	55.75	≤74	PASS
BLE_1M	Ant1	Low	2402	Peak	2370.875	-34.68	≤-21.20	60.52	≤74	PASS
BLE_1M	Ant1	Low	2402	AV	2390.000	-46.22	≤-41.20	48.98	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2310.000	-46.66	≤-41.20	48.54	≤54	PASS
BLE_1M	Ant1	Low	2402	AV	2379.065	-45.31	≤-41.20	49.89	≤54	PASS
BLE_1M	Ant1	High	2480	Peak	2483.500	-38.97	≤-21.20	56.23	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2500.000	-38.67	≤-21.20	56.53	≤74	PASS
BLE_1M	Ant1	High	2480	Peak	2491.600	-34.66	≤-21.20	60.54	≤74	PASS
BLE_1M	Ant1	High	2480	AV	2483.500	-46.06	≤-41.20	49.14	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2500.000	-45.92	≤-41.20	49.28	≤54	PASS
BLE_1M	Ant1	High	2480	AV	2496.400	-45.13	≤-41.20	50.07	≤54	PASS
BLE_2M	Ant1	Low	2402	Peak	2390.000	-36.19	≤-21.20	59.01	≤74	PASS
BLE_2M	Ant1	Low	2402	Peak	2310.000	-39.58	≤-21.20	55.62	≤74	PASS
BLE_2M	Ant1	Low	2402	Peak	2350.295	-35.03	≤-21.20	60.17	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2390.000	-45.63	≤-41.20	49.57	≤54	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-46.57	≤-41.20	48.63	≤54	PASS
BLE_2M	Ant1	Low	2402	AV	2382.740	-44.99	≤-41.20	50.21	≤54	PASS
BLE_2M	Ant1	High	2480	Peak	2483.500	-37.53	≤-21.20	57.67	≤74	PASS
BLE_2M	Ant1	High	2480	Peak	2500.000	-36.96	≤-21.20	58.24	≤74	PASS
BLE_2M	Ant1	High	2480	Peak	2489.200	-34.7	≤-21.20	60.50	≤74	PASS
BLE_2M	Ant1	High	2480	AV	2483.500	-46.32	≤-41.20	48.88	≤54	PASS
BLE_2M	Ant1	High	2480	AV	2500.000	-45.62	≤-41.20	49.58	≤54	PASS
BLE_2M	Ant1	High	2480	AV	2484.000	-45.19	≤-41.20	50.01	≤54	PASS

Note:

1. The Antenna Gain and duty factor are compensated in the graph. The gain value is 2dBi.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

