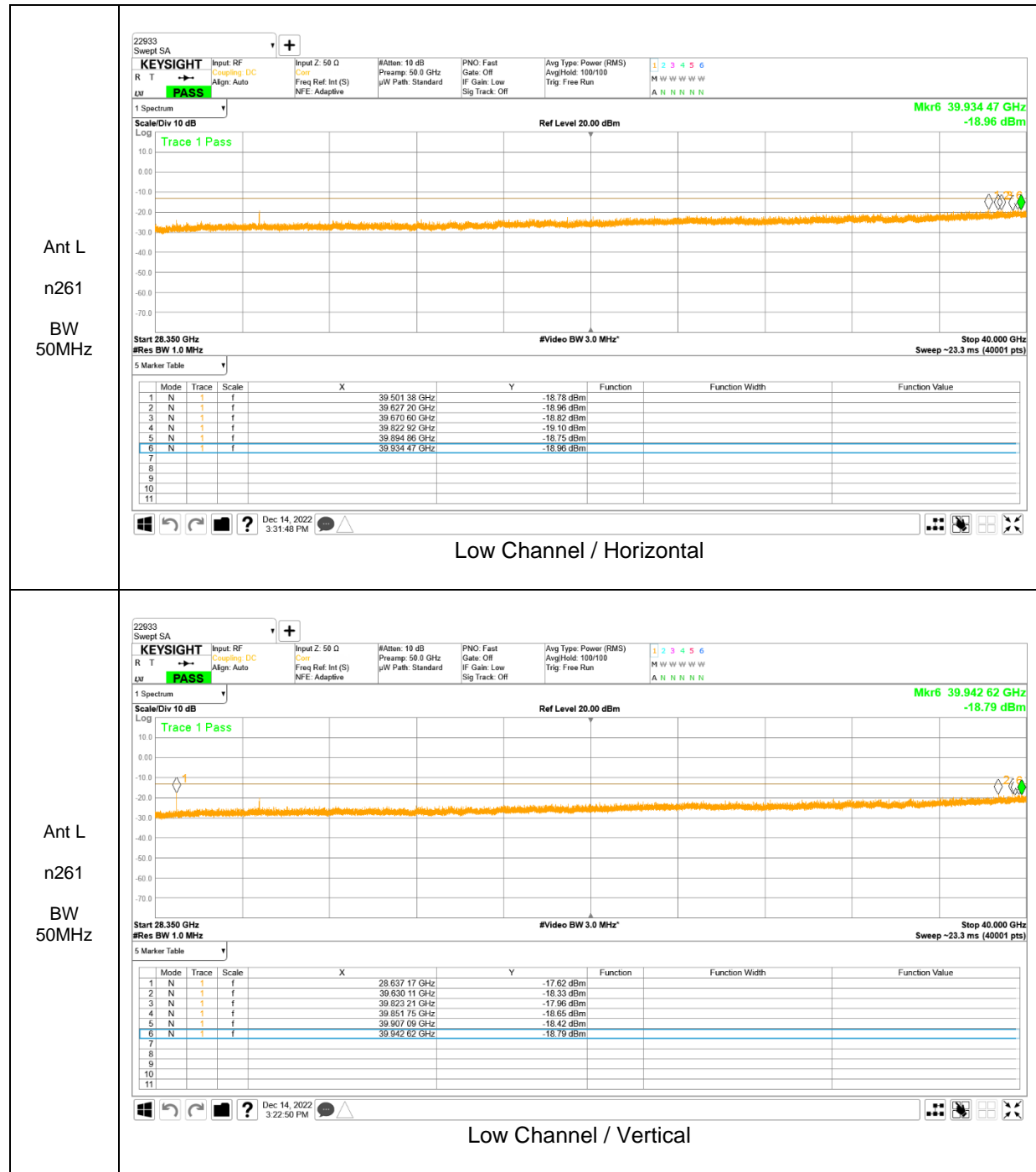
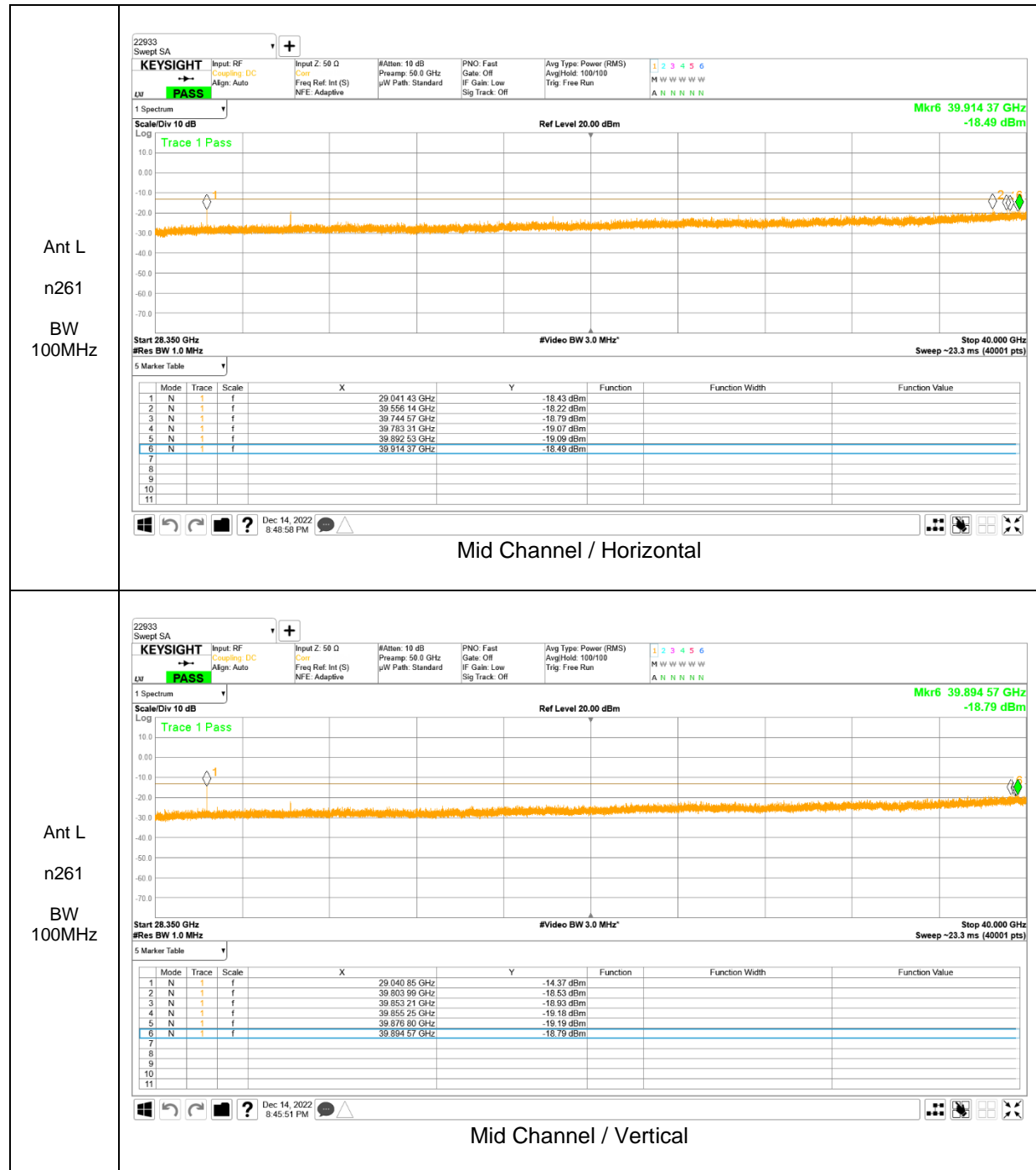


28.35 – 40 GHz Result



Final Measurement Data Table

Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
29.74	50	SISO-Dual	QPSK	25.1	159.7	-21.42	-13	8.42	H
29.74	50	SISO-Dual	QPSK	7.2	161.6	-17.67	-13	4.67	V
28.64	50	SISO-Dual	QPSK	-38.1	164.4	-26.44	-13	13.44	V



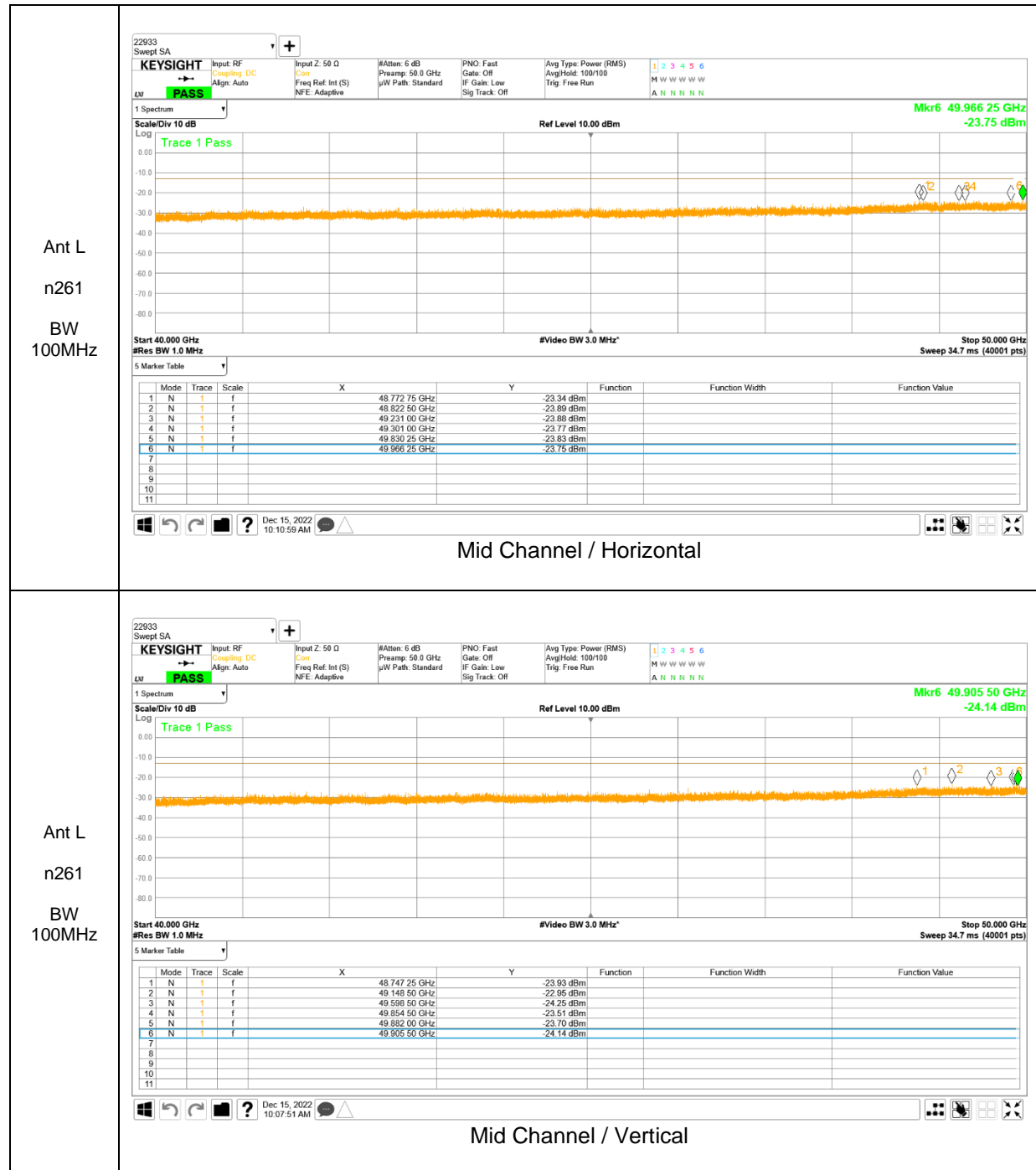
Final Measurement Data Table

Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
29.04	100	SISO-Dual	QPSK	27.7	182.2	-21.81	-13	8.81	H
30.16	100	SISO-Dual	QPSK	28.0	176.5	-23.30	-13	10.30	H
30.16	100	SISO-Dual	QPSK	11.3	191.2	-27.85	-13	14.85	V
29.04	100	SISO-Dual	QPSK	13.6	186.6	-17.49	-13	4.49	V

40 – 50 GHz Result

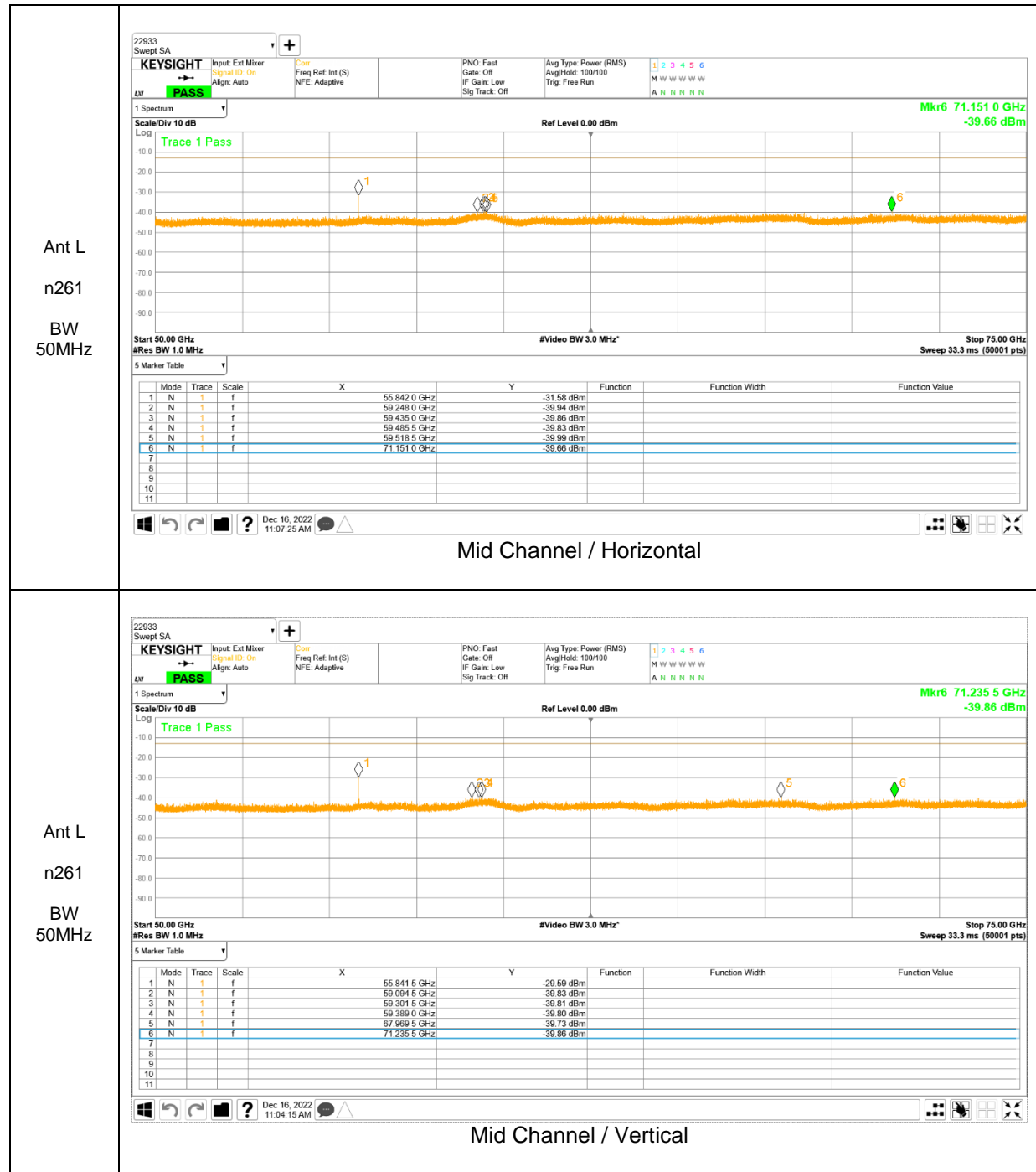


No emissions were detected above noise floor this antenna and band.



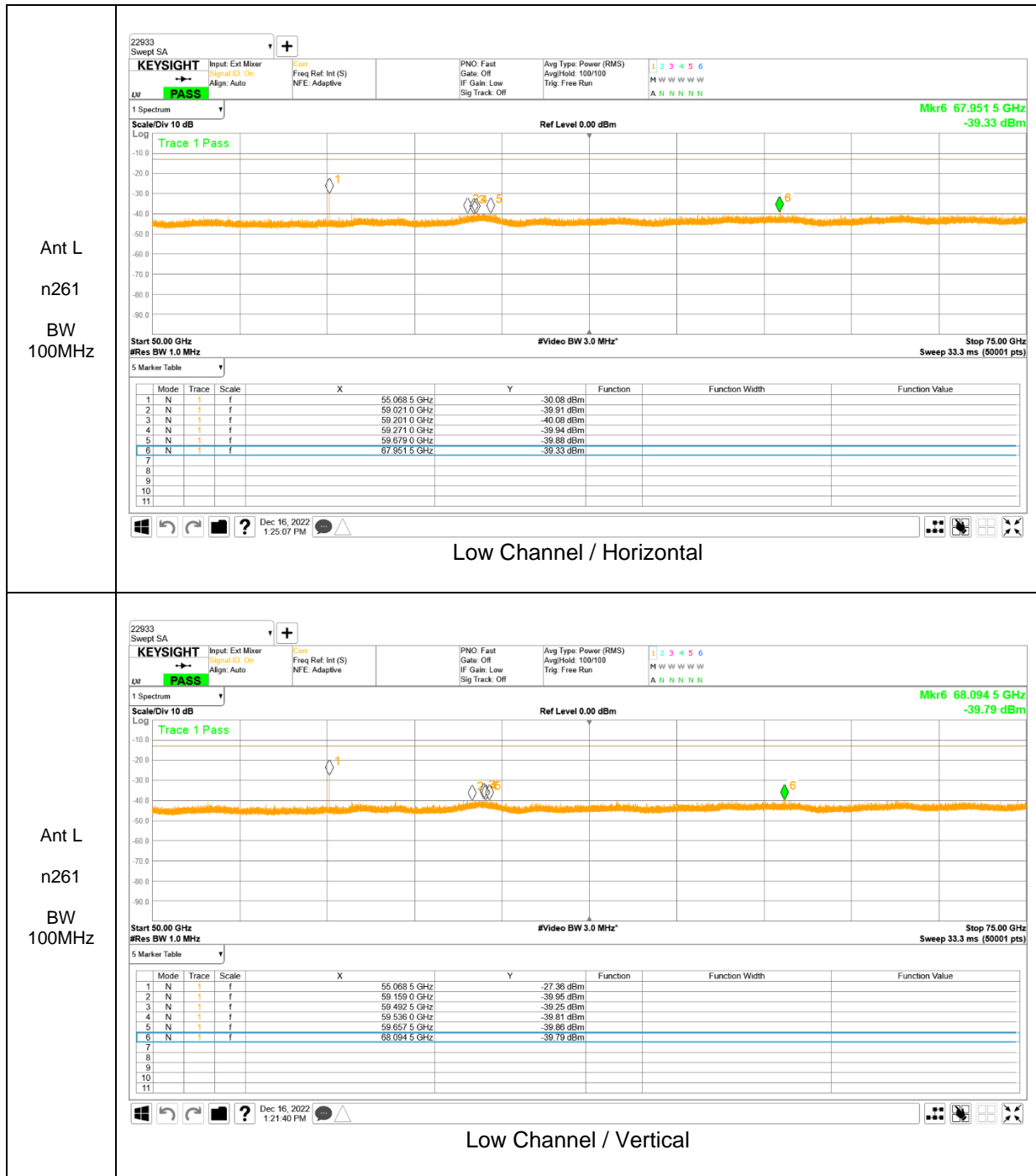
No emissions were detected above noise floor this antenna and band.

50 – 75 GHz Result



Final Measurement Data Table

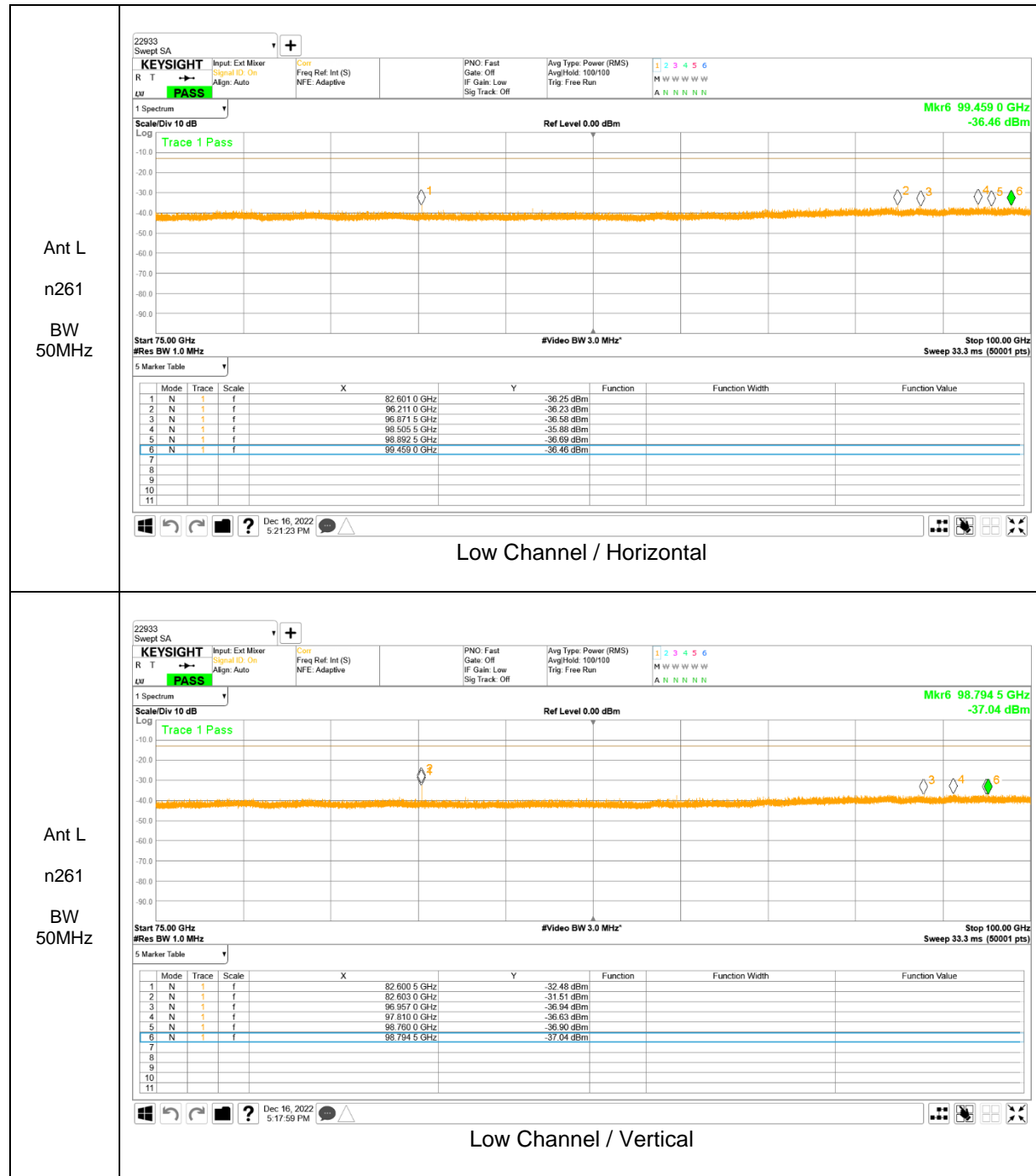
Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
55.84	50	SISO-Dual	QPSK	28.1	159.6	-32.31	-13	19.31	H
55.84	50	SISO-Dual	QPSK	11.9	183.1	-30.71	-13	17.71	V



Final Measurement Data Table

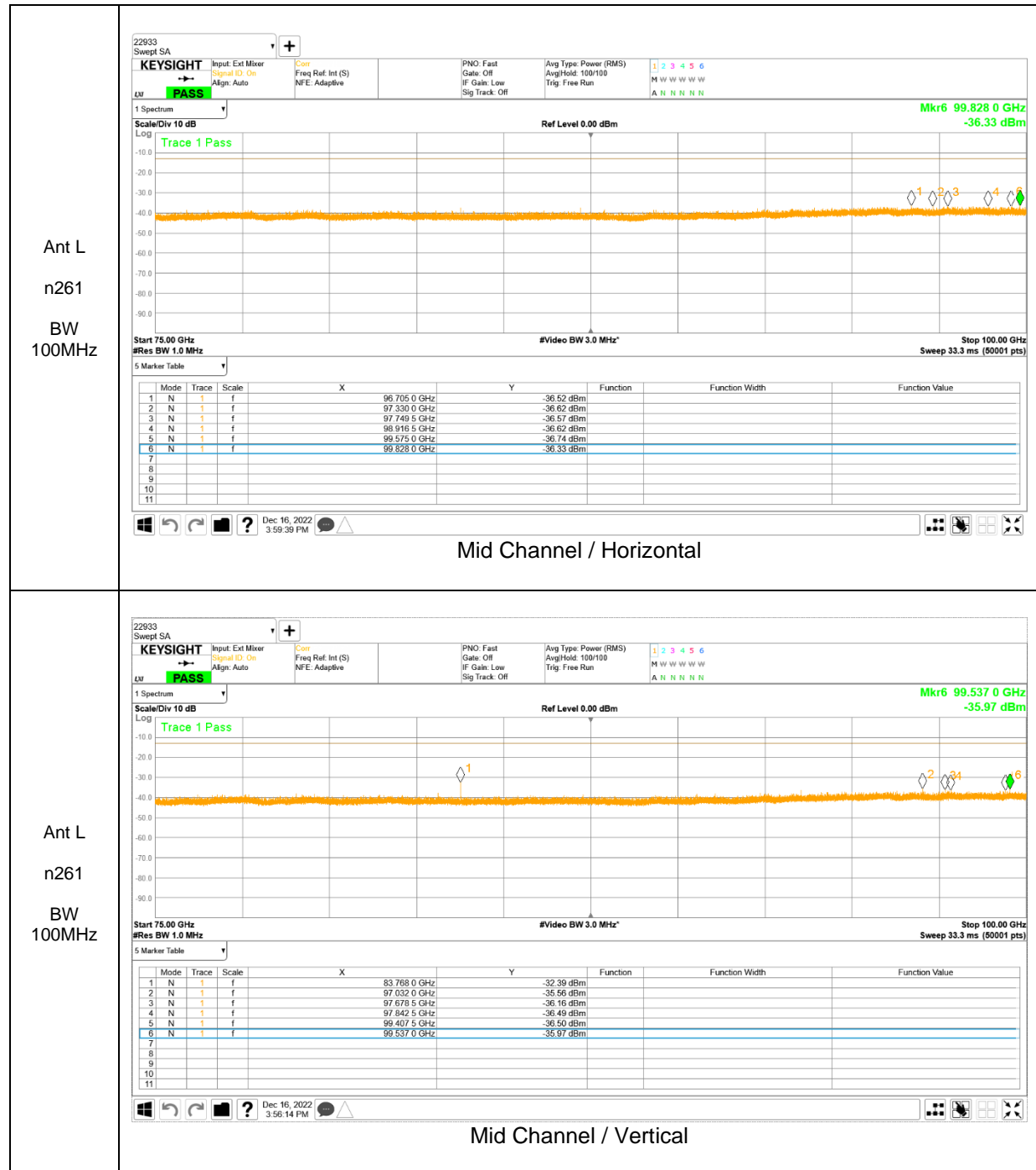
Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
55.07	100	SISO-Dual	QPSK	27.8	188.4	-31.02	-13	18.02	H
55.07	100	SISO-Dual	QPSK	11.1	186.2	-30.51	-13	17.51	V

75 – 100 GHz Result



Final Measurement Data Table

Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
82.60	50	SISO-Dual	QPSK	23.3	192.2	-32.78	-13	19.78	V

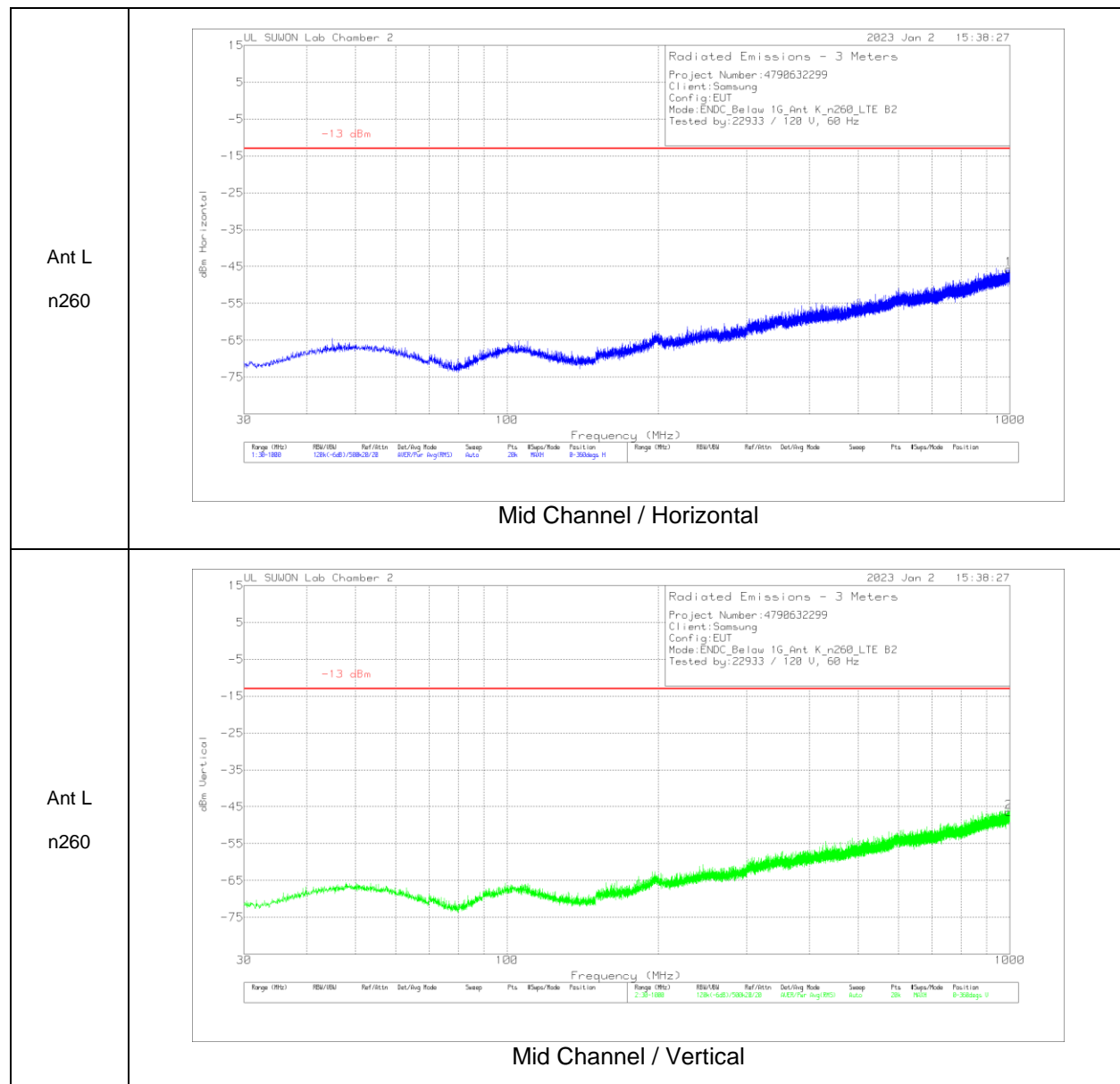


Final Measurement Data Table

Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
83.77	100	SISO-Dual	QPSK	26.5	188.9	-34.62	-13	21.62	V

Module 0 / Ant L, n260

30 – 1000 MHz Result



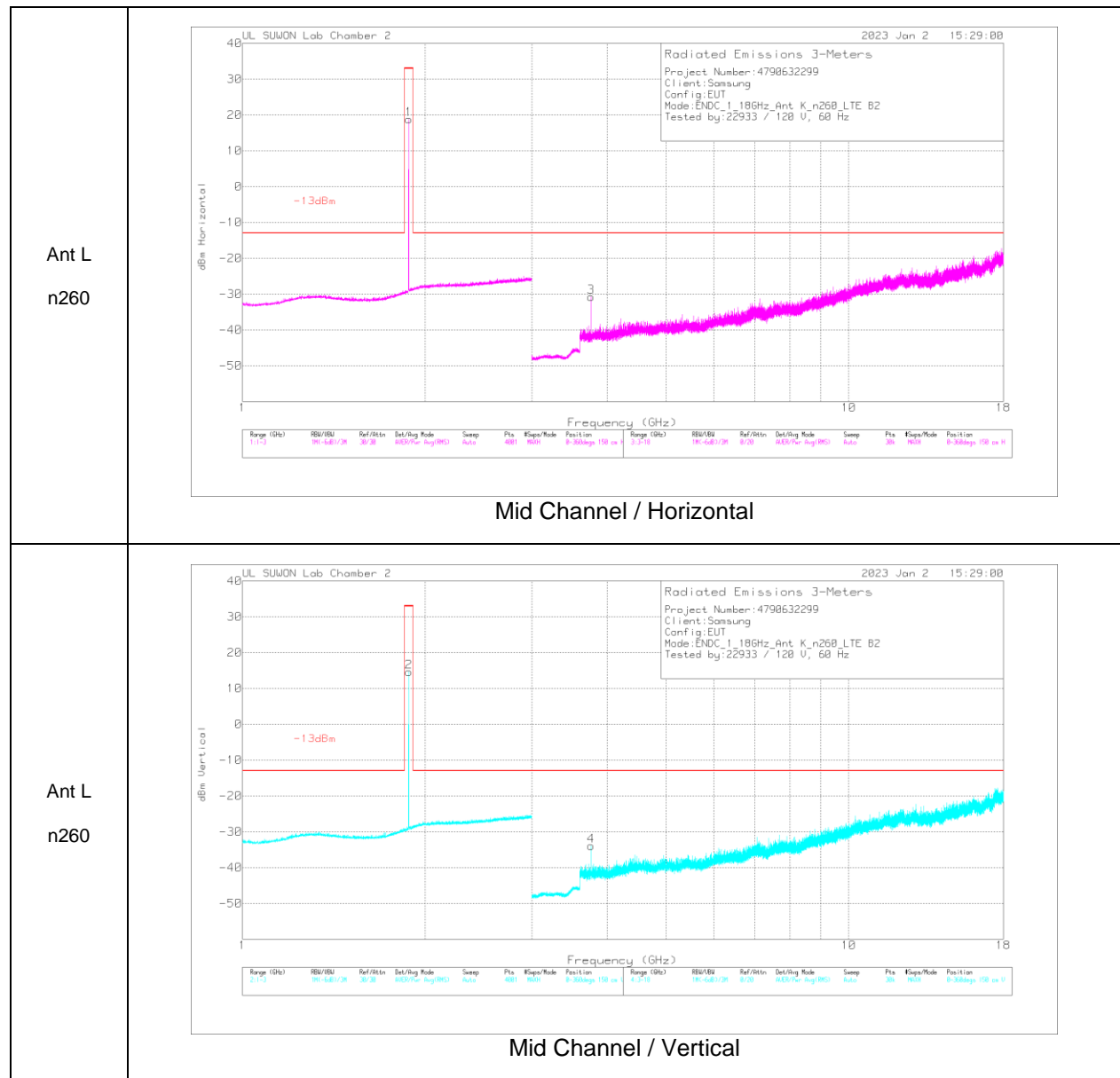
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	VULB9163_749	Below 1G(dB)	Conversion Factor(dB)	Corrected Reading dBm	-13 dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	996.2742	-60.71	RMS	27.8	-24.6	11.8	-45.71	-13	-32.71	0-360	200	H
2	996.5166	-61.41	RMS	27.8	-24.6	11.8	-46.41	-13	-33.41	0-360	100	V

RMS - RMS detection

No emissions were detected above noise floor this antenna and band. Thus reported mid channel data.

1 – 18 GHz Result



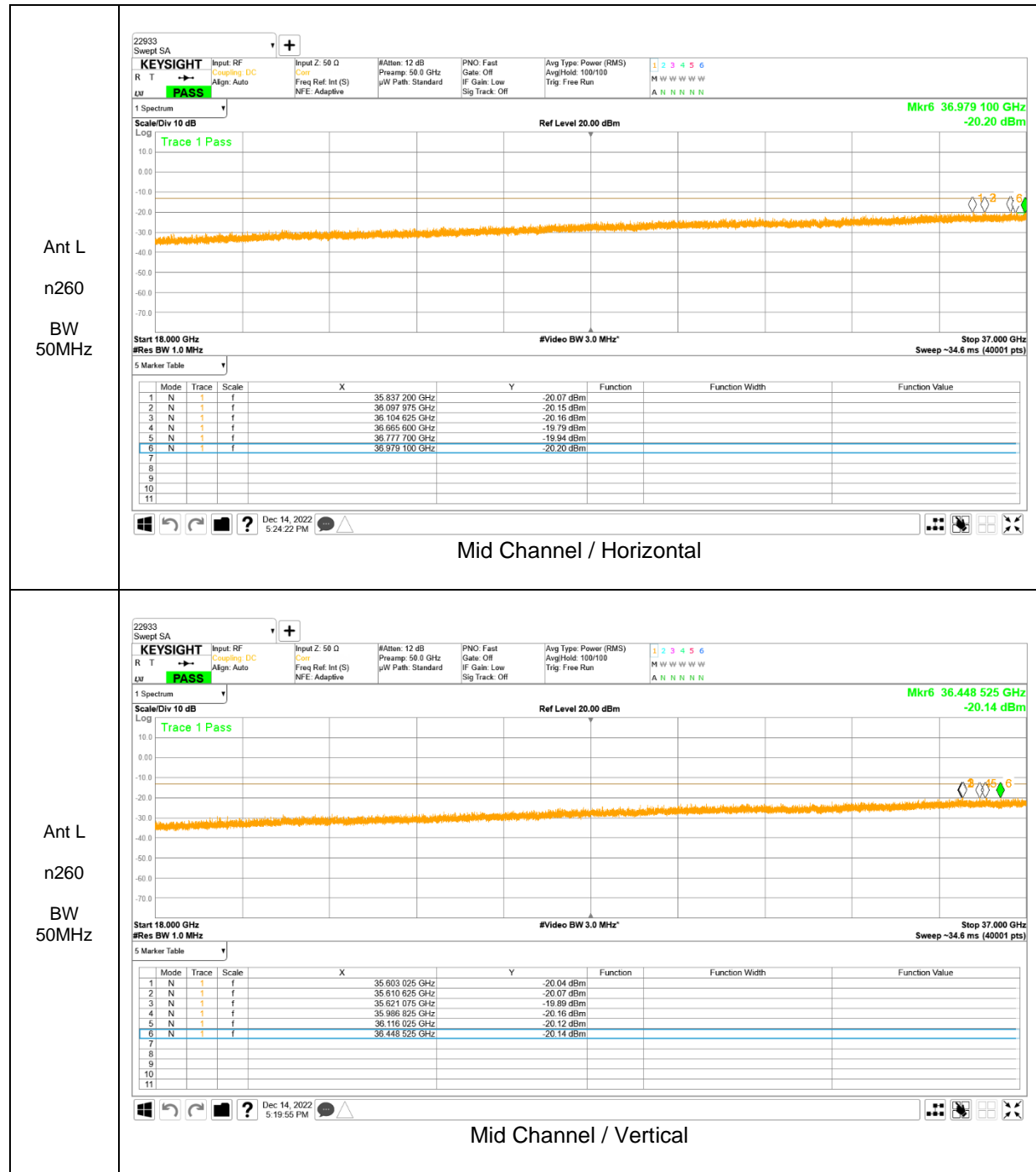
Trace Markers

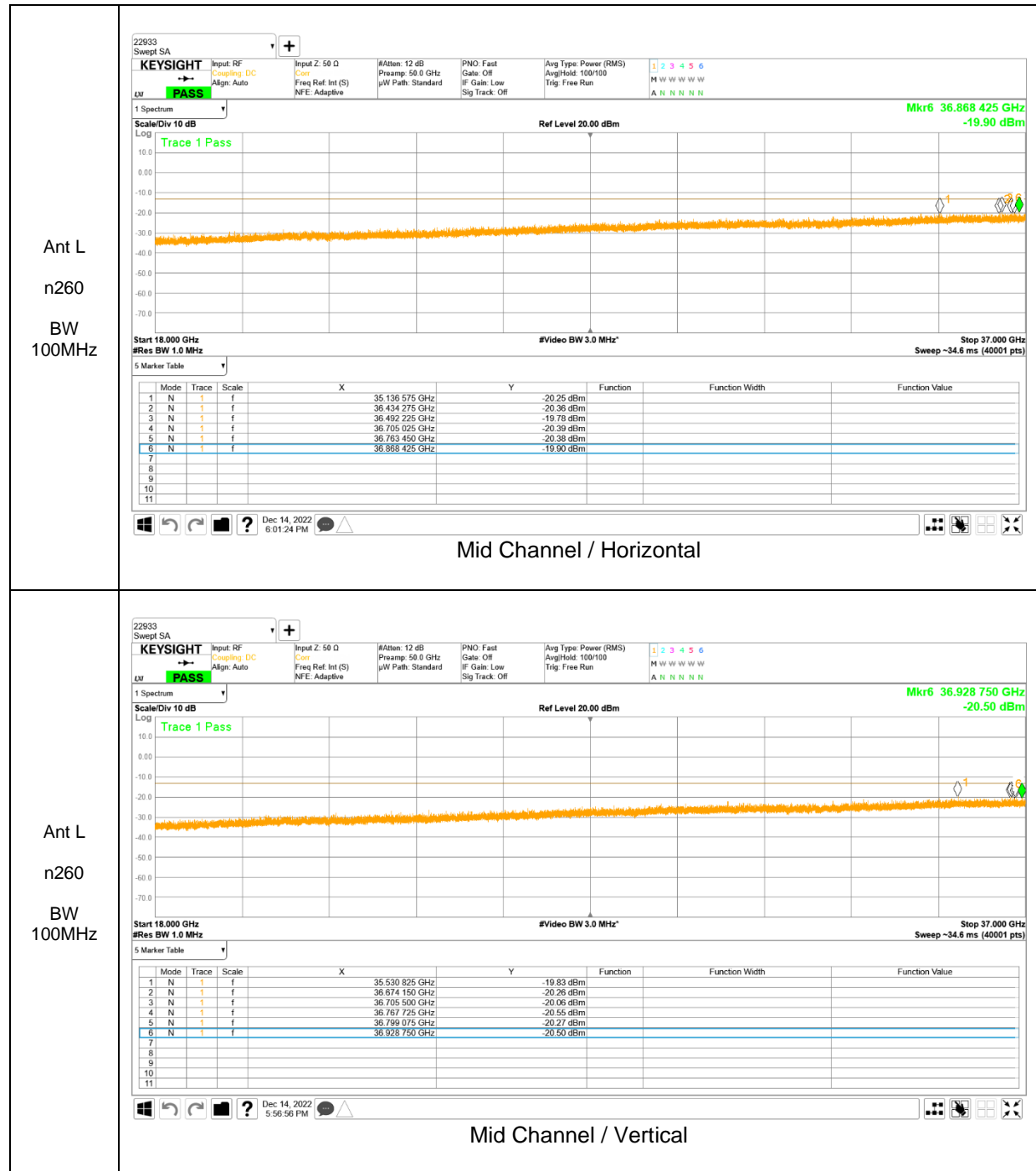
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00168724	10dB_ATT[dB]	Conversion Factor[dB]	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.88	-3.32	RMS	30.5	-20.2	11.8	18.78	33	-14.22	0-360	150	H
2	1.88	-7.44	RMS	30.5	-20.2	11.8	14.66	33	-18.34	0-360	150	V
3	3.75997	-60.33	RMS	33	-18.3	11.8	-30.83	-13	-20.83	0-360	150	H
4	3.75997	-60.44	RMS	33	-18.3	11.8	-33.94	-13	-20.94	0-360	150	V

RMS - RMS detection

** Marker 1 and 2 were the fundamental signal of LTE Band 2 that was used as a representative anchor band for EN-DC investigations. No emissions were detected above the noise floor which was at least 20dB below the specification limit. Thus reported mid channel data.

18 – 37 GHz Result

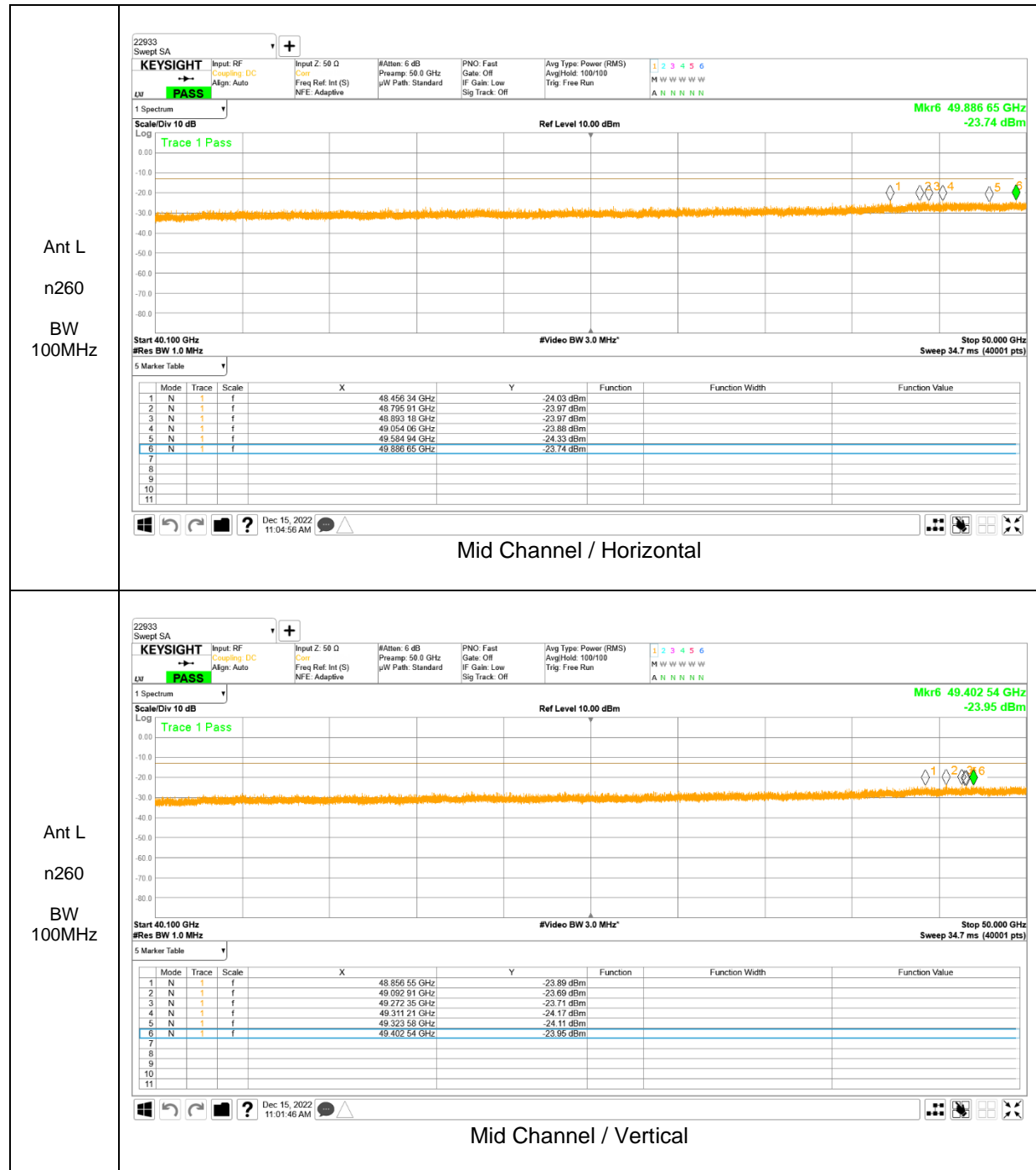




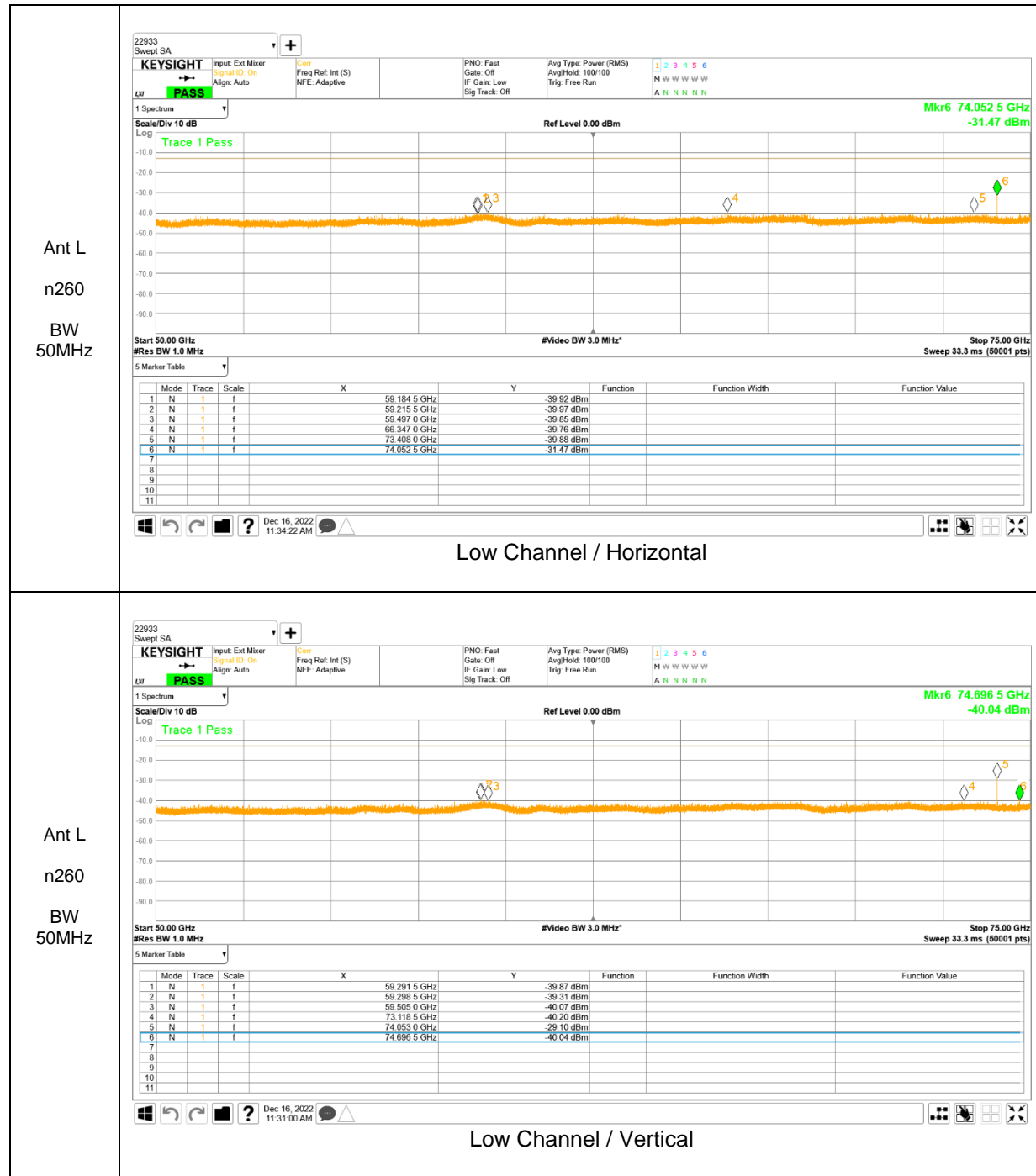
40.1 – 50 GHz Result



No emissions were detected above noise floor this antenna and band.

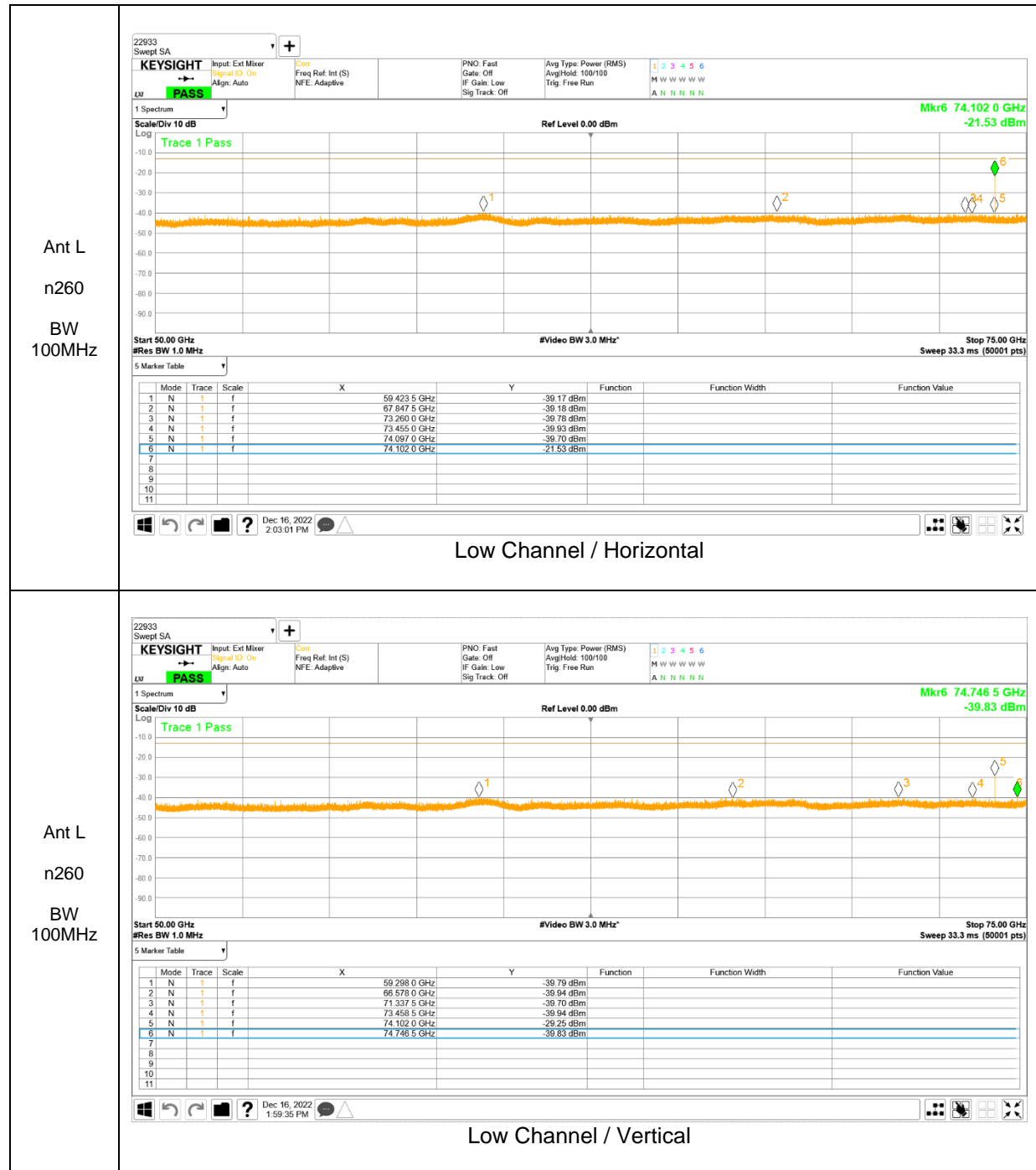


50 – 75 GHz Result



Final Measurement Data Table

Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
74.05	50	SISO-Dual	QPSK	28.6	161.1	-34.28	-13	21.28	H
74.05	50	SISO-Dual	QPSK	39.4	199.7	-32.10	-13	19.10	V



Final Measurement Data Table

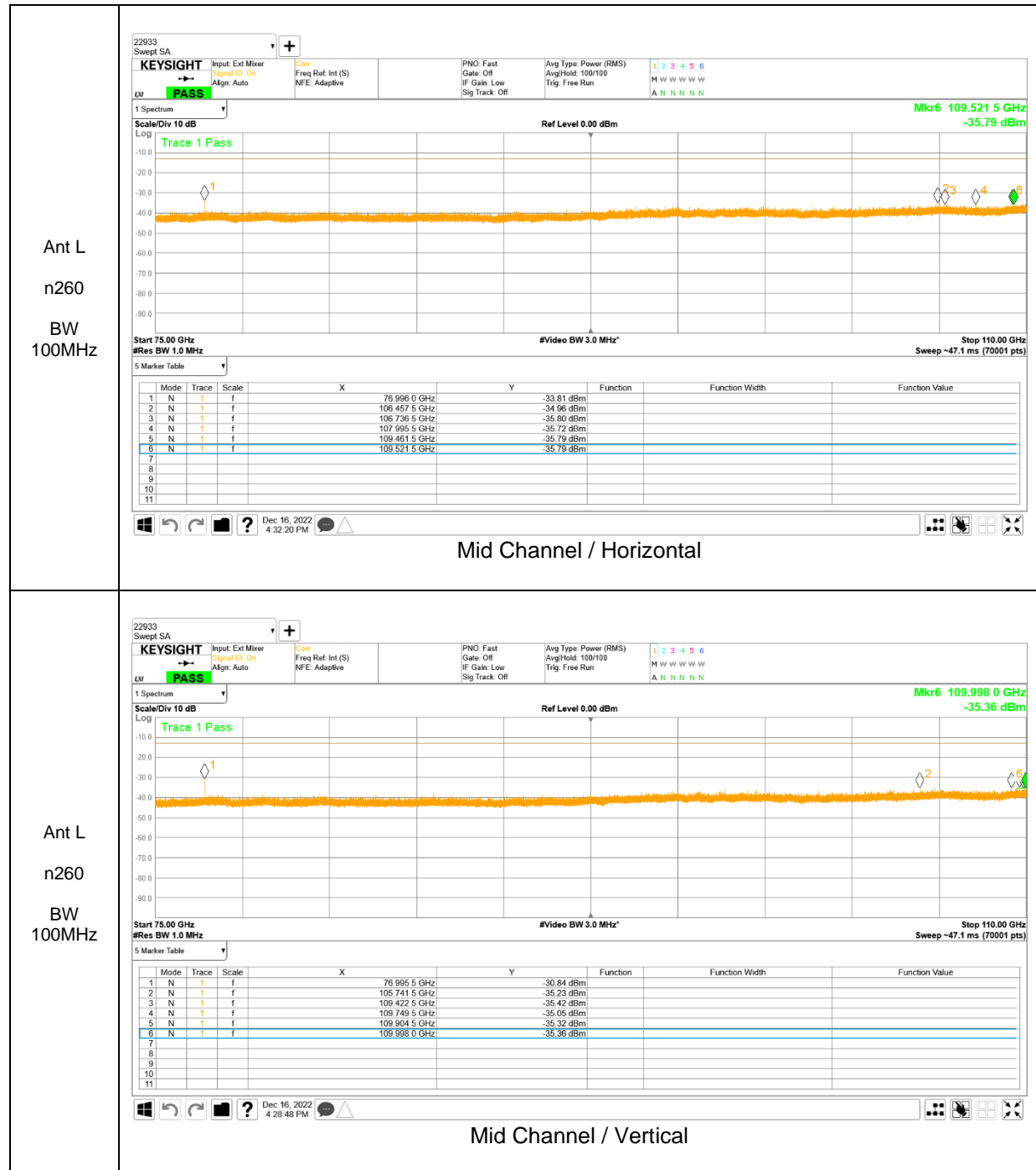
Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
74.10	100	SISO-Dual	QPSK	29.0	171.1	-34.11	-13	21.11	H
74.10	100	SISO-Dual	QPSK	19.8	175.1	-29.35	-13	16.35	V

75 – 110 GHz Result



Final Measurement Data Table

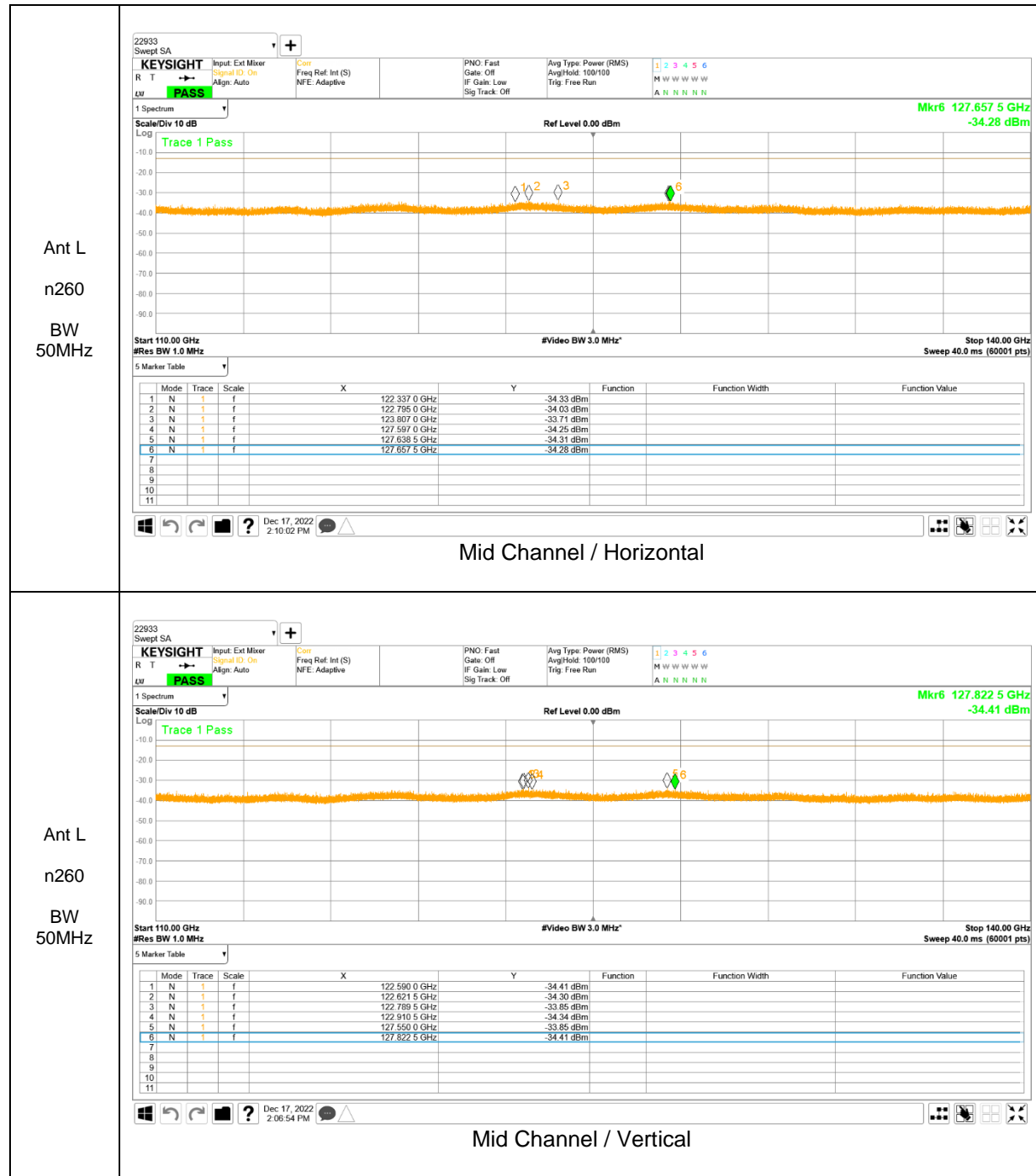
Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
76.99	50	SISO-Dual	QPSK	25.0	192.5	-29.86	-13	16.86	V



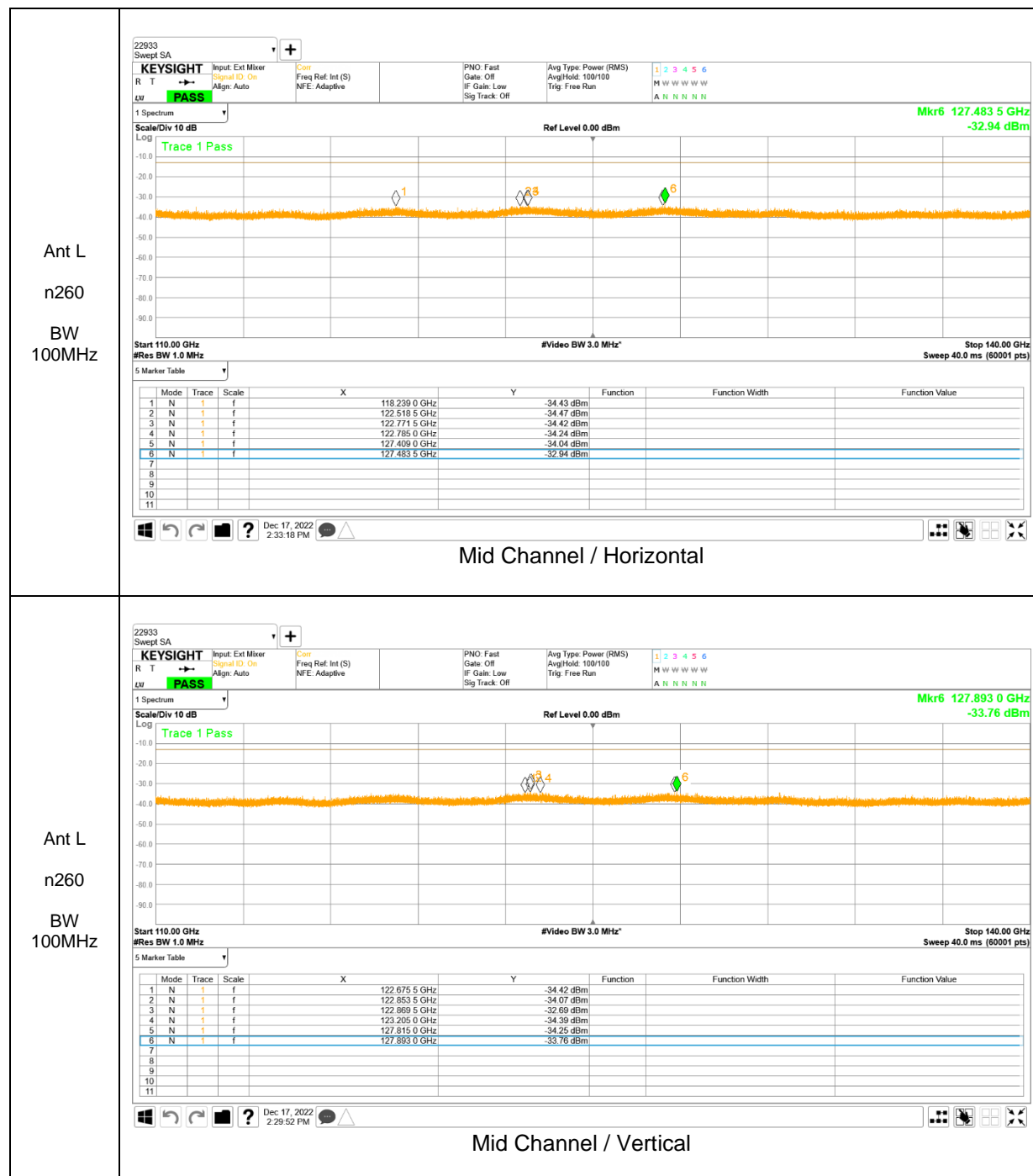
Final Measurement Data Table

Frequency [GHz]	Bandwidth [MHz]	EUT Beam	Modulation	Y-Axis [degree]	X-Axis [degree]	EIRP [dBm]	Limit [dBm]	Margin [dB]	Ant pol [H/V]
77.00	100	SISO-Dual	QPSK	27.4	164.7	-38.62	-13	25.62	H
77.00	100	SISO-Dual	QPSK	24.7	180.2	-34.28	-13	21.28	V

110 – 140 GHz Result

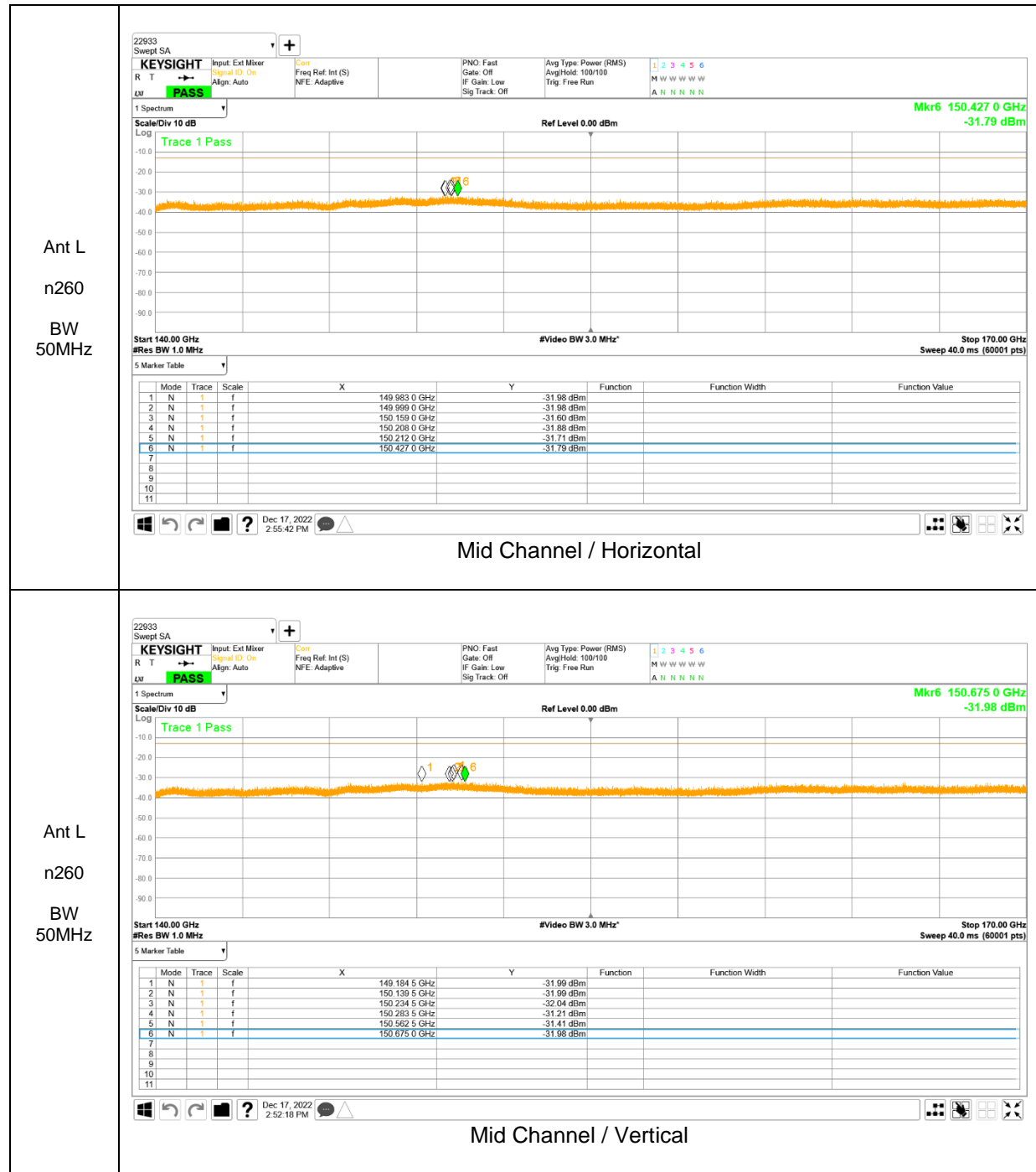


No emissions were detected above noise floor this antenna and band.

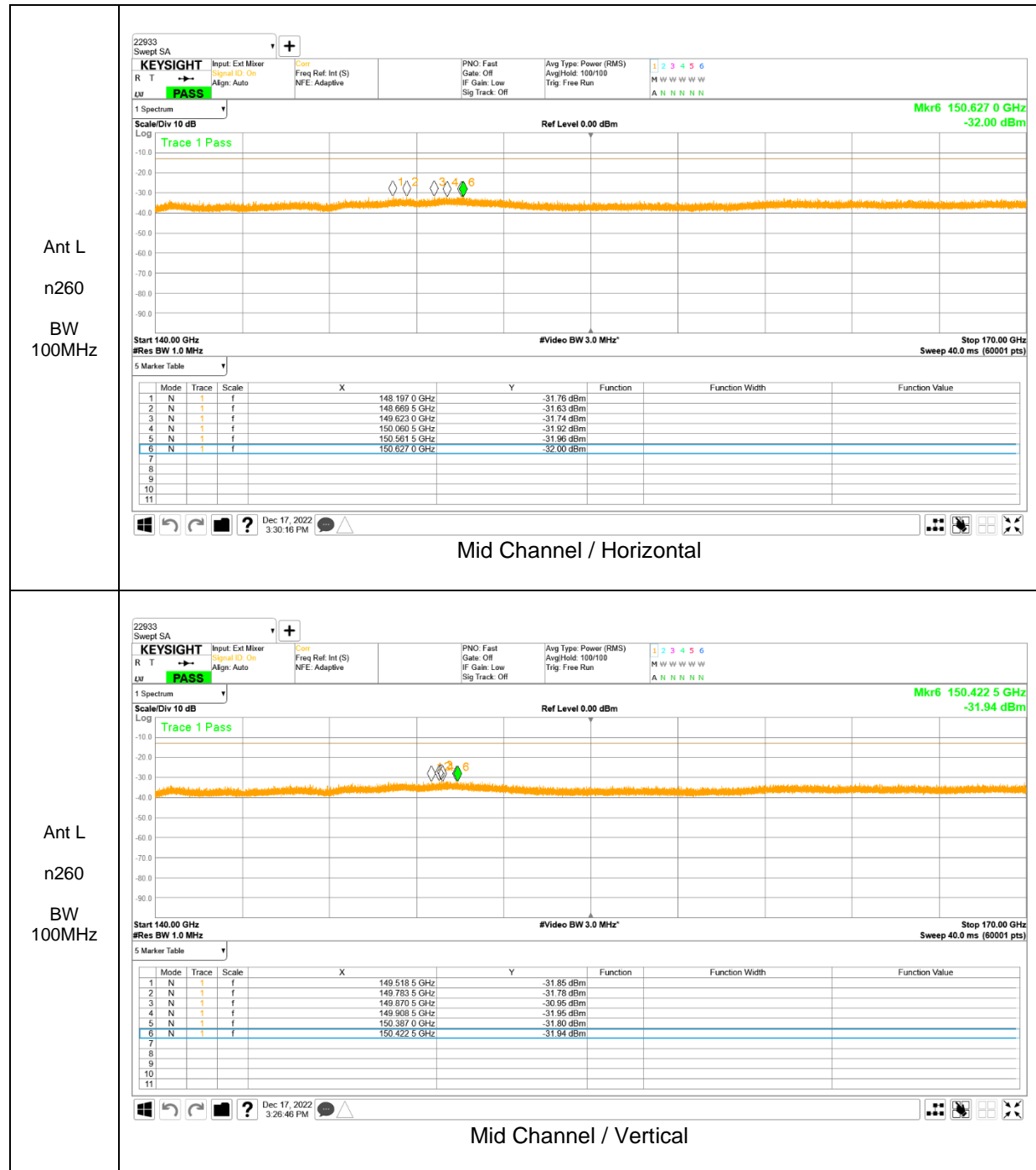


No emissions were detected above noise floor this antenna and band.

140 – 170 GHz Result

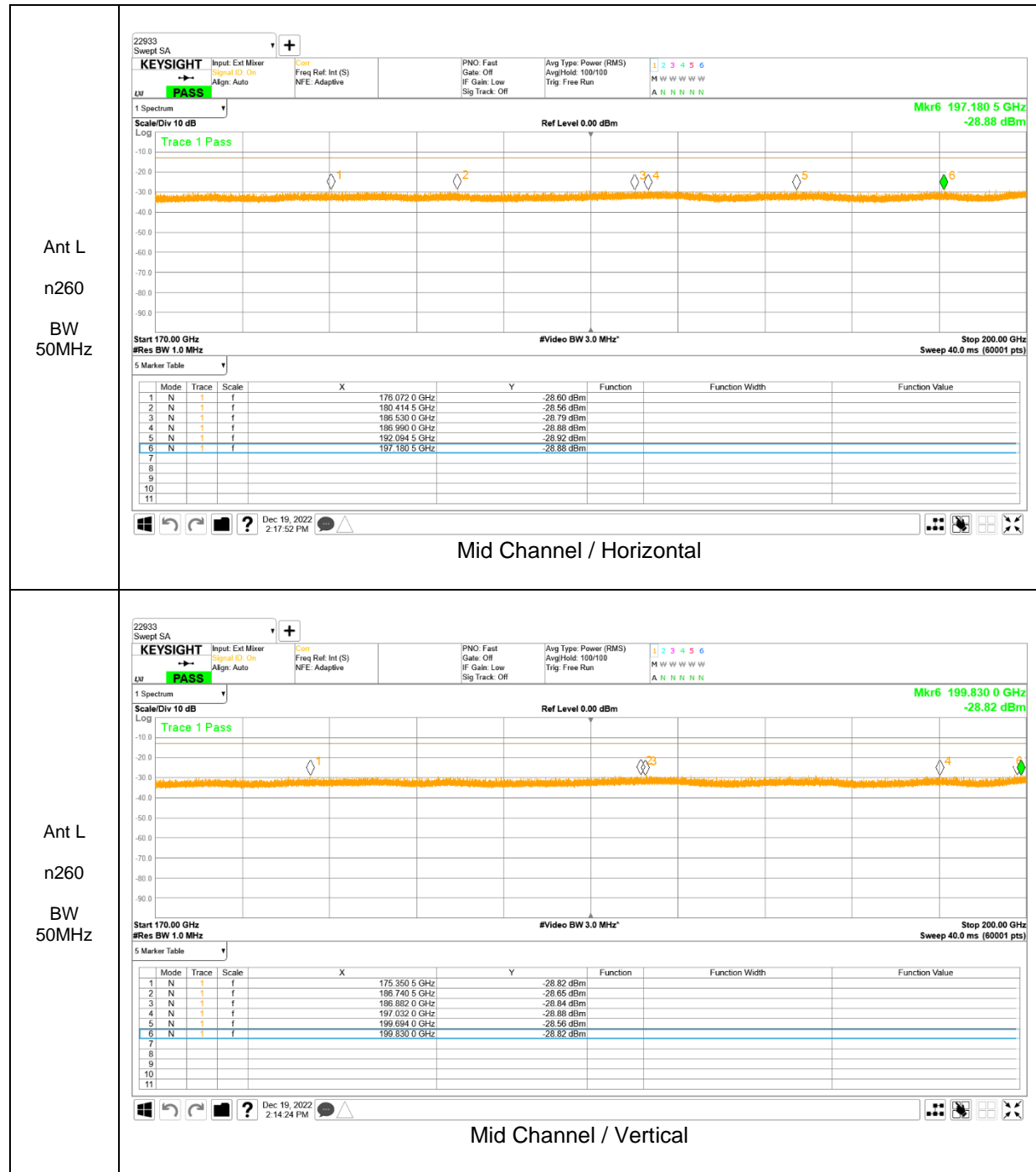


No emissions were detected above noise floor this antenna and band.

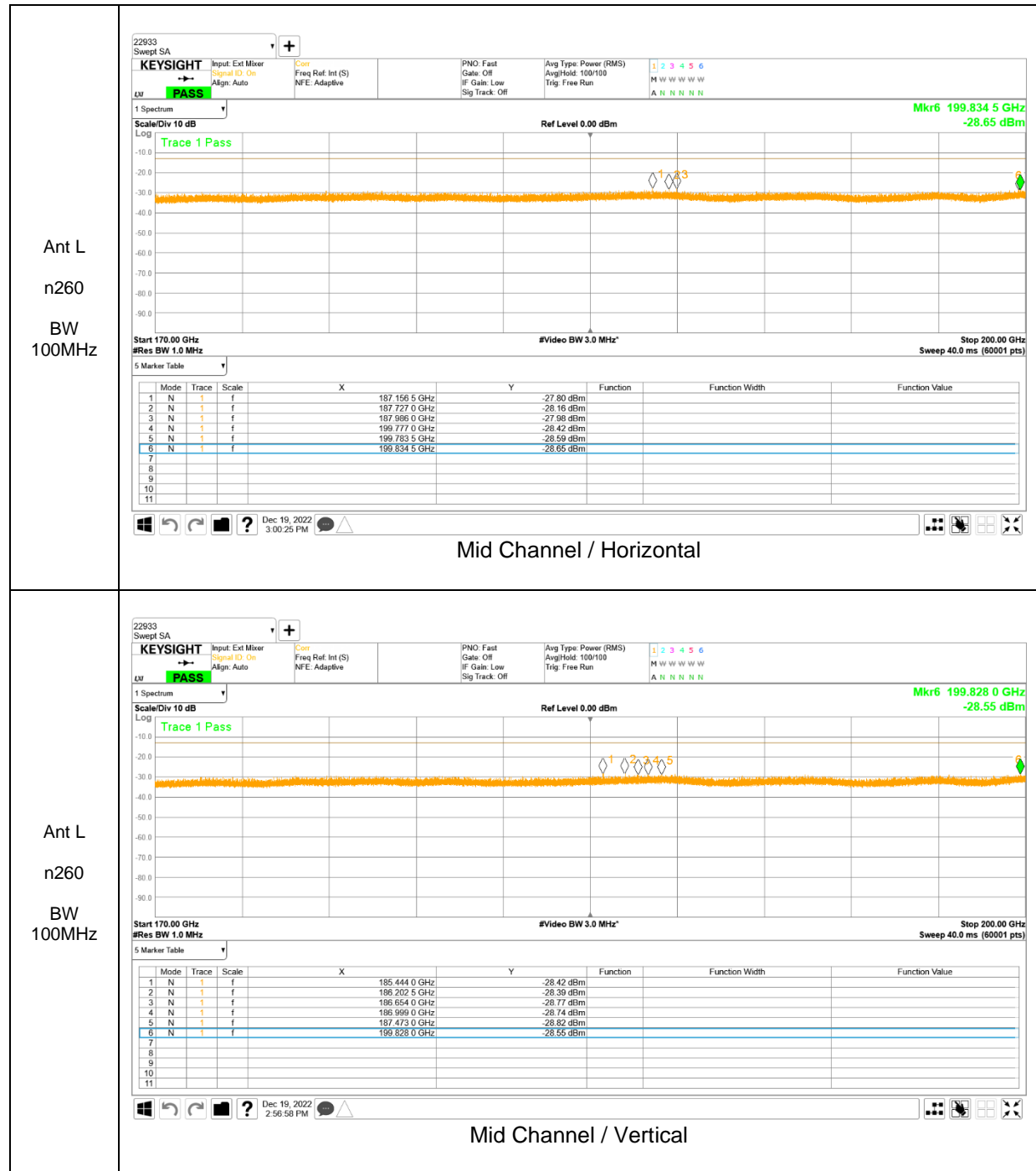


No emissions were detected above noise floor this antenna and band.

170 – 200 GHz Result



No emissions were detected above noise floor this antenna and band.



No emissions were detected above noise floor this antenna and band.

8.5. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055

LIMITS

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Test procedures for temperature variation

- a) Position the EUT in temperature/humidity chamber with power off.
- b) Set chamber temperature to -30°C and stabilize the EUT for at least 30 minutes.
- c) Record maximum change in frequency within one minute after powering the EUT.
- d) Increase chamber temperature at 10°C intervals from -30°C to 50°C. Record maximum change in frequency at each temperature.
- e) A period of at least 30 minutes is provided to allow stabilization of the equipment at each temperature level.

Test procedures for voltage variation

- a) Position the EUT in temperature/humidity chamber with power off.
- b) Set chamber temperature to 20°C.
- c) Record maximum frequency change within one minute after powering the EUT.
- d) The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

(KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.5)
(ANSI C63.26-2015 Section 5.6)

NOTE :

The Deviation column in the table below is the amount of deviation measured from the center frequency of the authorized bands of operation.

5G NR: All Waveforms (CP-OFDM vs DFT-s OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

RESULTS

See the following pages.

8.5.1. FREQUENCY STABILITY RESULTS

Module 0 / Ant L, n261

Limit (MHz)		27500			28350		
Condition		F low @ End of OBW	Delta (kHz)	Deviation (%)	F high @ End of OBW	Delta (kHz)	Deviation (%)
Temperature	Voltage	(MHz)			(MHz)		
Normal (20°C) (Ref)	Normal	27509.8400	0.000	0.000000	28344.5200	0.000	0.000000
Extreme (50°C)		27509.8402	174.780	0.000626	28344.5201	90.004	0.000322
Extreme (40°C)		27509.8401	132.610	0.000475	28344.5200	20.176	0.000072
Extreme (30°C)		27509.8402	177.720	0.000636	28344.5200	7.623	0.000027
Extreme (10°C)		27509.8400	37.594	0.000135	28344.5201	77.701	0.000278
Extreme (0°C)		27509.8400	3.798	0.000014	28344.5200	44.971	0.000161
Extreme (-10°C)		27509.8401	122.780	0.000440	28344.5201	116.030	0.000416
Extreme (-20°C)		27509.8401	106.640	0.000382	28344.5200	47.536	0.000170
Extreme (-30°C)		27509.8401	53.759	0.000193	28344.5200	44.336	0.000159
Normal (20°C)		15%	27509.8402	195.520	0.000700	28344.5200	16.880
	-15%	27509.8401	154.660	0.000554	28344.5201	93.000	0.000333
	End Point	27509.8402	106.640	0.000382	28344.5200	50.582	0.000181

Module 0 / Ant L, n260

Limit (MHz)		37000			40000		
Condition		F low @ End of OBW	Delta (kHz)	Deviation (%)	F high @ End of OBW	Delta (kHz)	Deviation (%)
Temperature	Voltage	(MHz)			(MHz)		
Normal (20°C) (Ref)	Normal	37002.3200	0.000	0.000000	39991.2400	0.000	0.000000
Extreme (50°C)		37002.3200	11.392	0.000030	39991.2403	265.330	0.000689
Extreme (40°C)		37002.3201	78.700	0.000204	39991.2403	297.280	0.000772
Extreme (30°C)		37002.3201	140.950	0.000366	39991.2403	267.310	0.000694
Extreme (10°C)		37002.3202	216.080	0.000561	39991.2401	55.410	0.000144
Extreme (0°C)		37002.3203	259.250	0.000673	39991.2400	10.200	0.000026
Extreme (-10°C)		37002.3202	208.080	0.000540	39991.2401	136.040	0.000353
Extreme (-20°C)		37002.3202	196.060	0.000509	39991.2401	109.300	0.000284
Extreme (-30°C)		37002.3201	102.150	0.000265	39991.2401	61.917	0.000161
Normal (20°C)		15%	37002.3200	200.550	0.000521	39991.2403	279.190
	-15%	37002.3201	203.900	0.000530	39991.2402	218.960	0.000569
	End Point	37002.3201	193.890	0.000504	39991.2403	347.840	0.000903

Appendix A

1. Accreditation Scope

A transmitter operating at 40 GHz requires spurious emissions to be investigated up to 200 GHz. In this case, the test laboratory scope should reflect that it has capability to measure up to 200 GHz.

UL Korea, Ltd. test sites and facilities are covered under FCC test Firm Registrations #KR0161.

The scope of accreditation can be viewed at

https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeout=500®num_specified=N&test_firm_id=7730.

2. VDI Mixer Certificate Report

2.1. Model : N9029AV15, S/N : SAX693



교정 성적서 CALIBRATION CERTIFICATE

경기도 이천시 마장면 서이천로 578번길 74
 TEL : 031-645-6900, FAX : 031-645-6969



성적서발급번호(Certificate No) : IC-2022-002597

교정번호(Calibration No) : C-2022-003548

페이지(page) : 1 of 4

1. 의뢰자 (Client)
 - 기관명 (Name) : 유엘코리아(주)
 - 주소 (Address) : 경기도 수원시 영통구 매영로 218
2. 측정기 (Calibration Subject)
 - ◇ 등록번호 : 409611
 - 기기명 (Description) : SA EXTENSION MODULE
 - 제작회사 및 형식(Manufacturer and Model Name) : VDI / SAX WR15
 - 기기번호 (Serial Number) : SAX693
3. 교정일자 (Date of Calibration) : 2022.01.18 차기교정예정일자 : 2023.01.18
 (The due date of next Calibration)
4. 교정환경 (Environment)
 - 온도(Temperature) : (23.6 ± 0.3) °C - 습도(Humidity) : (51 ± 3) % R.H.
 - 교정장소 (Location) : 고정표준실(Permanent Calibration Lab)
 (주소: 경기도 이천시 마장면 서이천로 578번길 74)
5. 측정 표준의 소급성 (Traceability) ◇Field code : 40641(RF SPECTRUM ANALYZER)
 교정방법 및 소급성 서술 (Calibration method and/or brief description)
 상기 기기는 고주파 스펙트럼 분석기의 교정절차(HCT-CS-125-40641)에 따라 국가측정표준기관으로부터 측정의 소급성이 확
 보된 아래의 표준장비를 이용하여 교정 되었음.

교정에 사용한 표준장비 명세 (List of used standards/specifications)

기기명 (Description)	제작회사 / 형식 (Manufacturer and Model Name)	기기번호 (Serial Number)	차기교정예정일자 (The due date of next Calibration)	교정기관 (Calibration laboratory)
EXG ANALOG SIGNAL GENERATOR	KEYSIGHT/N5173B	MY61252589	2022/10/15	(주)에이치시티
EPM-P SERIES POWER METER	AGILENT/E4417A	GB41291582	2022/06/04	(주)에이치시티
POWER SENSOR	KEYSIGHT/V8486A	MY56330017	2022/12/07	Keysight Technologies
WR-12 MULTIPLIER SOURCE MODULE	OML/S12MS-A	160419-1	2022/09/07	(주)에이치시티
WR-19 MULTIPLIER SOURCE MODULE	OML/S19MS-A	160516-1	2022/09/07	(주)에이치시티

6. 교정결과 (Calibration result) : 교정결과 참조 (Refer to attachment)
7. 측정불확도 (Measurement uncertainty) : 교정결과 참조 (Refer to attachment)
 신뢰수준 약 95 %, k = 2 (Confidence level about 95 %, k = 2)

확 인 (affirmation)	작성자 (Measurements performed by)	승인자 (Approved by)
	성명 (Name) 고형재 (인명)	직위 (Title) 기술책임자(Technical Cal. Manager) 김광철 성명 (Name) 김 광 철 (서명)

위 성적서는 국제시험기관인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인 받은 분야의 교정결과입니다.

2022. 01. 18

한국인정기구 인정
 Accredited by KOLAS, Republic of KOREA

(주)에이치시티 대표이사
 President, HCT Co., Ltd.



※ 이 성적서는 측정기의 정밀정확도에 영향을 미치는 요소(과부하, 온도, 습도 등)의 급격한 변화가 발생한 경우에는 무효가 됩니다.
 ※ 고객전용사이트(http://www.callab.co.kr)에서 성적서의 진위여부 확인이 가능합니다.
 ※ 성적서의 원본은 상단에 HCT 로고가 들어간 위변조 방지 용지에 인쇄되어 발급되며, 원본 복사시에는 복사본이라는 표시가 처리됩니다.

F-02P-02-008 (Rev.02)

■ 고객사 관리번호 : SUW-E0250

교 정 결 과

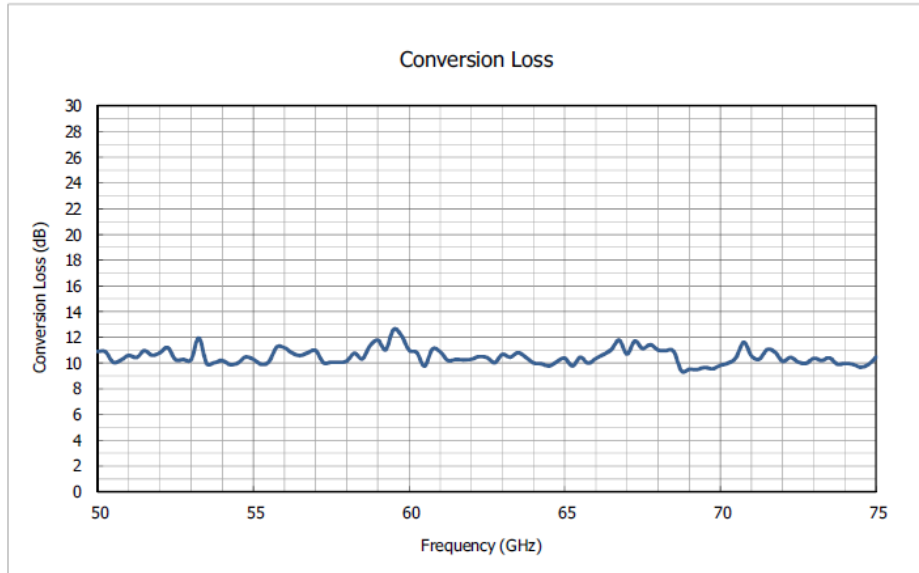
CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2022-002597
교 정 번 호(Calibration No) : C-2022-003548

페이지(page) : 2 of 4

1. Conversion Loss Graph



Note 1) Measurement Condition :

RF = -30 dBm, Harmonic Order = 12, L.O. Level = 10 dBm, IF = 322.5 MHz, Bias Value = 0.00 mA

Note 2) This is the result of measuring the requested equipment and Keysight N9040B (SN MY60080268) together.

F-02P-02-008 (Rev.02)

교 정 결 과

CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2022-002597
 교 정 번 호(Calibration No) : C-2022-003548

페이지(page) : 3 of 4

2. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
50.0	10.90	0.82	57.5	10.07	0.82
50.3	10.88	0.82	57.8	10.06	0.82
50.5	10.06	0.82	58.0	10.15	0.82
50.8	10.24	0.82	58.3	10.76	0.82
51.0	10.60	0.82	58.5	10.32	0.82
51.3	10.44	0.82	58.8	11.35	0.82
51.5	10.96	0.82	59.0	11.78	0.82
51.8	10.61	0.82	59.3	11.03	0.82
52.0	10.80	0.82	59.5	12.61	0.82
52.3	11.21	0.82	59.8	12.17	0.82
52.5	10.27	0.82	60.0	11.00	0.82
52.8	10.28	0.82	60.3	10.82	0.82
53.0	10.25	0.82	60.5	9.75	0.82
53.3	11.95	0.82	60.8	11.09	0.82
53.5	9.97	0.82	61.0	10.88	0.82
53.8	10.03	0.82	61.3	10.20	0.82
54.0	10.19	0.82	61.5	10.28	0.82
54.3	9.88	0.82	61.8	10.25	0.82
54.5	9.99	0.82	62.0	10.29	0.82
54.8	10.47	0.82	62.3	10.50	0.82
55.0	10.29	0.82	62.5	10.44	0.82
55.3	9.91	0.82	62.8	10.03	0.82
55.5	10.10	0.82	63.0	10.67	0.82
55.8	11.24	0.82	63.3	10.45	0.82
56.0	11.19	0.82	63.5	10.81	0.82
56.3	10.78	0.82	63.8	10.46	0.82
56.5	10.59	0.82	64.0	10.01	0.82
56.8	10.80	0.82	64.3	9.94	0.82
57.0	10.98	0.82	64.5	9.78	0.82
57.3	10.03	0.82	64.8	10.11	0.82
65.0	10.38	0.82	70.3	9.99	0.82
65.3	9.78	0.82	70.5	10.42	0.82
65.5	10.45	0.82	70.8	11.62	0.82
65.8	9.99	0.82	71.0	10.55	0.82
66.0	10.35	0.82	71.3	10.30	0.82
66.3	10.67	0.82	71.5	11.05	0.82
66.5	11.06	0.82	71.8	10.86	0.82

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교 정 결 과 CALIBRATION RESULT



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2. Conversion Loss Data (cont.)

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
66.8	11.79	0.82	72.0	10.13	0.82
67.0	10.69	0.82	72.3	10.44	0.82
67.3	11.71	0.82	72.5	10.07	0.82
67.5	11.13	0.82	72.8	9.98	0.82
67.8	11.43	0.82	73.0	10.37	0.82
68.0	11.00	0.82	73.3	10.20	0.82
68.3	10.97	0.82	73.5	10.41	0.82
68.5	10.92	0.82	73.8	9.91	0.82
68.8	9.38	0.82	74.0	9.97	0.82
69.0	9.52	0.82	74.3	9.90	0.82
69.3	9.50	0.82	74.5	9.67	0.82
69.5	9.66	0.82	74.8	9.87	0.82
69.8	9.55	0.82	75.0	10.45	0.82
70.0	9.82	0.82	-	-	-

END.

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2.2. Model : N9029AV10, S/N : SAX597



교정성적서
 CALIBRATION CERTIFICATE



경기도 이천시 마장면 서이천로 578번길 74
 TEL : 031-645-6900, FAX : 031-645-6969

성적서발급번호(Certificate No) : IC-2022-002596
 교정번호(Calibration No) : C-2022-003547

페이지(page) : 1 of 4

- 1. 의뢰자 (Client)**
 - 기관명 (Name) : 유엘코리아(주)
 - 주소 (Address) : 경기도 수원시 영통구 매영로 218
- 2. 측정기 (Calibration Subject)**
 - 기기명 (Description) : SA EXTENSION MODULE ◇ 등록번호 : 409626
 - 제작회사 및 형식 (Manufacturer and Model Name) : VDI / SAX WR10
 - 기기번호 (Serial Number) : SAX597
- 3. 교정일자 (Date of Calibration) : 2022.01.16** 차기 교정예정일자 : 2023.01.16
(The due date of next Calibration)
- 4. 교정환경 (Environment)**
 - 온도(Temperature) : (22.4 ± 0.2) °C - 습도(Humidity) : (45 ± 2) % R.H.
 - 교정장소 (Location) : 교정표준실(Permanent Calibration Lab)
 (주소: 경기도 이천시 마장면 서이천로 578번길 74)
- 5. 측정 표준의 소급성 (Traceability) ◇ Field code : 40641(RF SPECTRUM ANALYZER)**
 교정방법 및 소급성 서술 (Calibration method and/or brief description)
 상기 기기는 고주파 스펙트럼 분석기의 교정 절차(HCT-CS-125-40641)에 따라 국가측정표준기관으로부터 측정의 소급성이 확보된 아래의 표준장비를 이용하여 교정 되었음.

교정에 사용한 표준장비 명세 (List of used standards/specifications)

기기명 (Description)	제작회사 / 형식 (Manufacturer and Model Name)	기기번호 (Serial Number)	차기 교정예정일자 (The due date of next Calibration)	교정기관 (Calibration laboratory)
EXG ANALOG SIGNAL GENERATOR	KEYSIGHT/N5173B	MY61252589	2022/10/15	(주)에이치시티
EPM-P SERIES POWER METER	AGILENT/E4417A	GB41291582	2022/06/04	(주)에이치시티
POWER SENSOR	KEYSIGHT/W8486A	MY56370005	2022/12/08	Keysight Technologies
WR-12 MULTIPLIER SOURCE MODULE	OML/S12MS-A	160419-1	2022/09/07	(주)에이치시티
WR-08 MULTIPLIER SOURCE MODULE	OML/S08MS-A	160419-1	2022/09/07	(주)에이치시티

- 6. 교정결과 (Calibration result) : 교정결과 참조 (Refer to attachment)**
- 7. 측정 불확도 (Measurement uncertainty) : 교정결과 참조 (Refer to attachment)**
 신뢰수준 약 95 %, k = 2 (Confidence level about 95 %, k = 2)

확 인 (affirmation)	작성자 (Measurements performed by)	승인자 (Approved by)
	성명 (Name) 고형재 (서명)	직위 (Title) 기술책임자(Technical Cal. Manager) (서명) 성명 (Name) 김광철

위 성적서는 국제시험기관인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인 받은 분야의 교정결과입니다.

2022. 01. 16
 한국인정기구 인정 (주)에이치시티 대표이사
 Accredited by KOLAS, Republic of KOREA President, HCT Co., Ltd.



※ 위 성적서는 측정기의 정밀정확도에 영향을 미치는 요소(과부하, 온도, 습도 등)의 급격한 변화가 발생한 경우에는 무효가 됩니다.
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 ※ 성적서의 원본은 상단에 HCT 로고가 들어간 위변조 방지 용지에 인쇄되어 발급되며, 원본 복사시에는 복사본이라는 표시가 처리됩니다.

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■고객사 관리번호: **SUW-E0252**

교 정 결 과

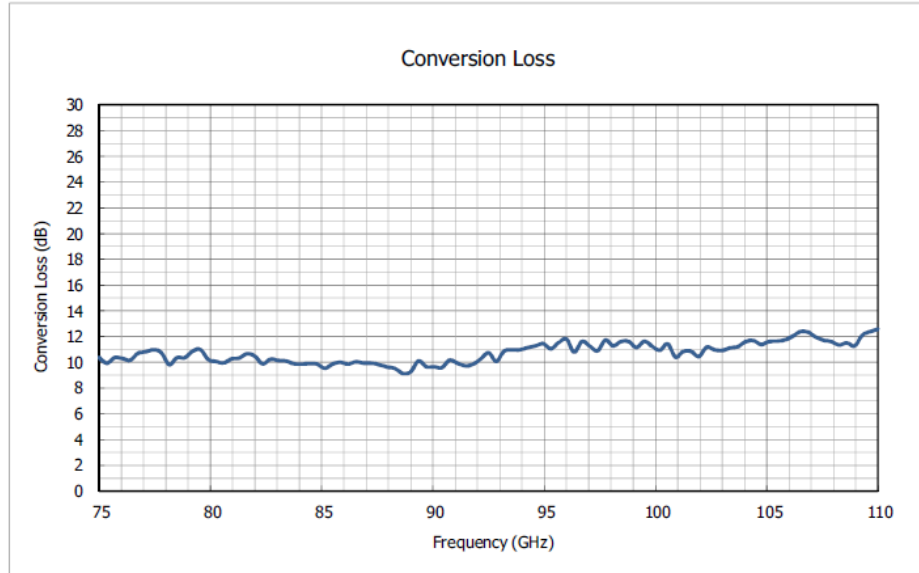
CALIBRATION RESULT



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1. Conversion Loss Graph



Note 1) Measurement Condition : RF = -30 dBm, Harmonic Order = 12, L.O. Level = 10 dBm, IF = 322.5 MHz, Bias Value = 0.00 mV
Note 2) This is the result of measuring the requested equipment and Keysight N9040B (SN MY60080268) together.

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교 정 결 과

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2. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
75.0	10.38	0.82	85.5	9.87	0.82
75.4	9.93	0.82	85.9	10.00	0.82
75.7	10.37	0.82	86.2	9.86	0.82
76.1	10.29	0.82	86.6	10.04	0.82
76.4	10.17	0.82	86.9	9.95	0.82
76.8	10.70	0.82	87.3	9.94	0.82
77.1	10.82	0.82	87.6	9.81	0.82
77.5	10.97	0.82	88.0	9.64	0.82
77.8	10.75	0.82	88.3	9.51	0.82
78.2	9.82	0.82	88.7	9.14	0.82
78.5	10.36	0.82	89.0	9.26	0.82
78.9	10.36	0.82	89.4	10.11	0.82
79.2	10.86	0.82	89.7	9.66	0.82
79.6	10.99	0.82	90.1	9.65	0.82
79.9	10.23	0.82	90.4	9.58	0.82
80.3	10.06	0.82	90.8	10.17	0.82
80.6	9.96	0.82	91.1	9.94	0.82
81.0	10.26	0.82	91.5	9.73	0.82
81.3	10.34	0.82	91.8	9.85	0.82
81.7	10.67	0.82	92.2	10.27	0.82
82.0	10.48	0.82	92.5	10.74	0.82
82.4	9.88	0.82	92.9	10.07	0.82
82.7	10.24	0.82	93.2	10.87	0.82
83.1	10.15	0.82	93.6	10.97	0.82
83.4	10.10	0.82	93.9	10.96	0.82
83.8	9.89	0.82	94.3	11.14	0.82
84.1	9.86	0.82	94.6	11.27	0.82
84.5	9.90	0.82	95.0	11.46	0.82
84.8	9.87	0.82	95.3	11.05	0.82
85.2	9.53	0.82	95.7	11.52	0.82
96.0	11.80	0.82	103.4	11.12	0.82
96.4	10.79	0.82	103.7	11.21	0.82
96.7	11.62	0.82	104.1	11.61	0.82
97.1	11.26	0.82	104.4	11.69	0.82
97.4	10.89	0.82	104.8	11.39	0.82
97.8	11.73	0.82	105.1	11.60	0.82
98.1	11.28	0.82	105.5	11.65	0.82

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교 정 결 과
 CALIBRATION RESULT



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2. Conversion Loss Data (cont.)

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
98.5	11.61	0.82	105.8	11.73	0.82
98.8	11.62	0.82	106.2	12.01	0.82
99.2	11.15	0.82	106.5	12.37	0.82
99.5	11.63	0.82	106.9	12.34	0.82
99.9	11.24	0.82	107.2	11.98	0.82
100.2	10.94	0.82	107.6	11.72	0.82
100.6	11.43	0.82	107.9	11.62	0.82
100.9	10.40	0.82	108.3	11.35	0.82
101.3	10.84	0.82	108.6	11.50	0.82
101.6	10.85	0.82	109.0	11.28	0.82
102.0	10.45	0.82	109.3	12.12	0.82
102.3	11.18	0.82	109.7	12.39	0.82
102.7	10.98	0.82	110.0	12.59	0.82
103.0	10.92	0.82	-	-	-

END.

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