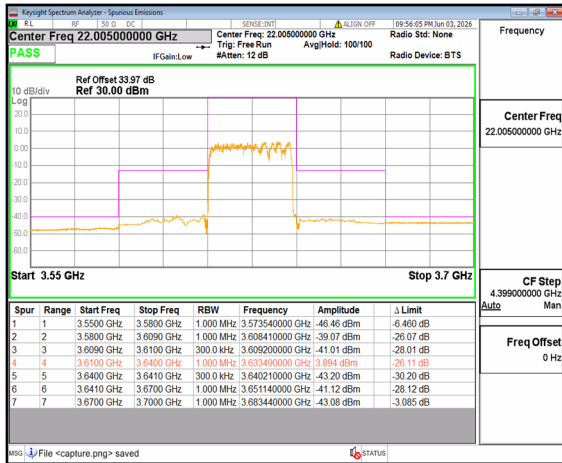
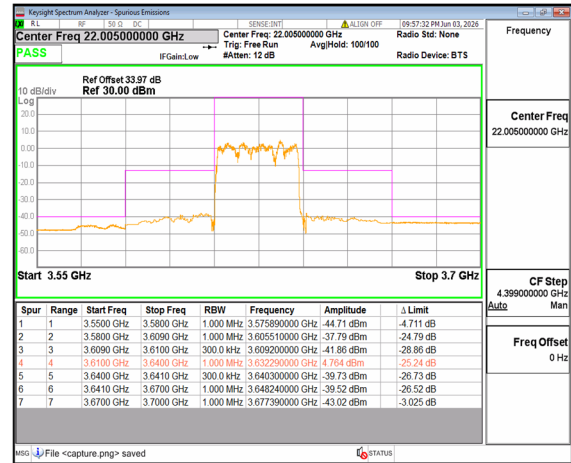
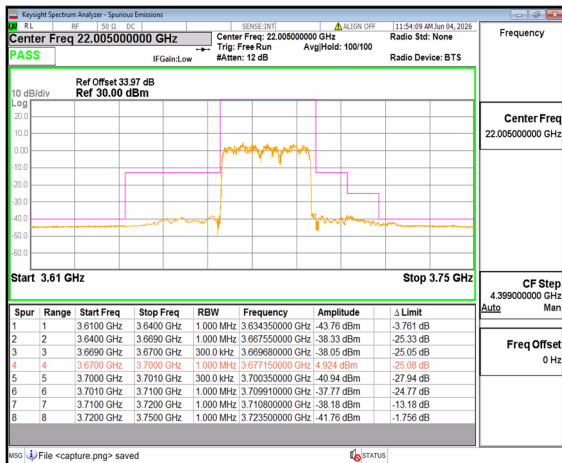




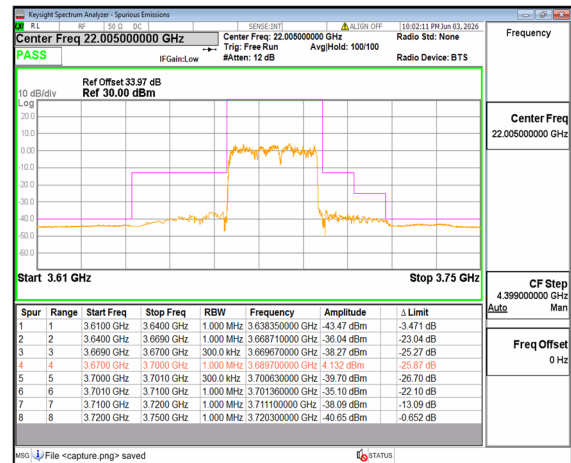
n48 30M DFT-s-OFDM BPSK Outer_Full Mid



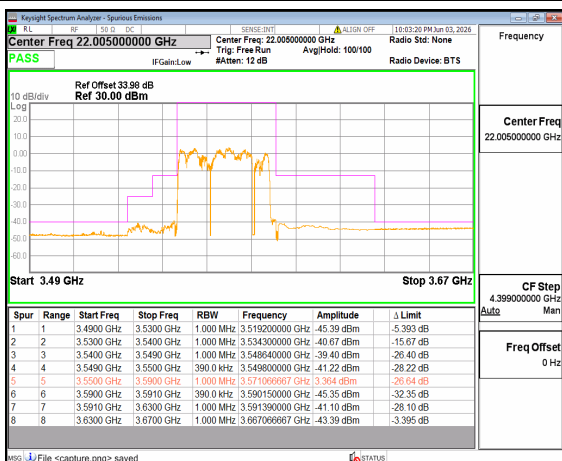
n48 30M DFT-s-OFDM QPSK Outer_Full Mid



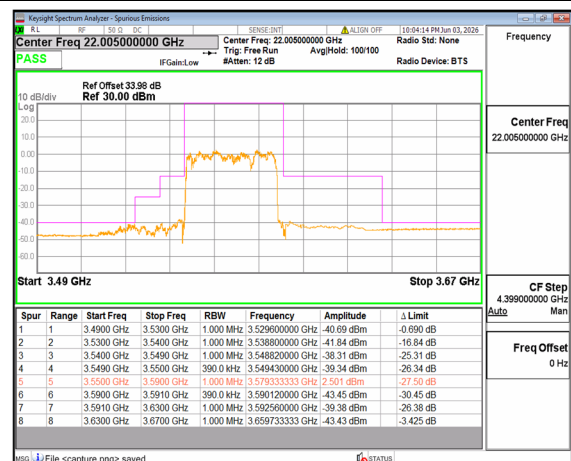
n48 30M DFT-s-OFDM BPSK Outer_Full High



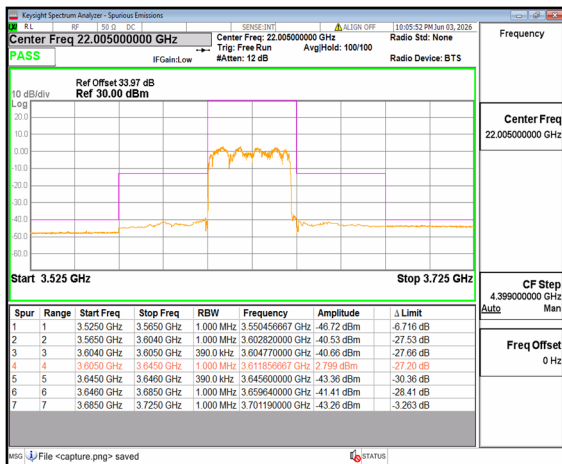
n48 30M DFT-s-OFDM QPSK Outer_Full High



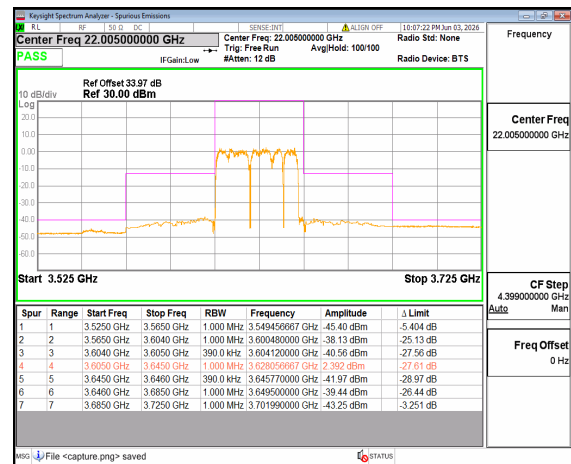
n48 40M DFT-s-OFDM BPSK Outer_Full Low



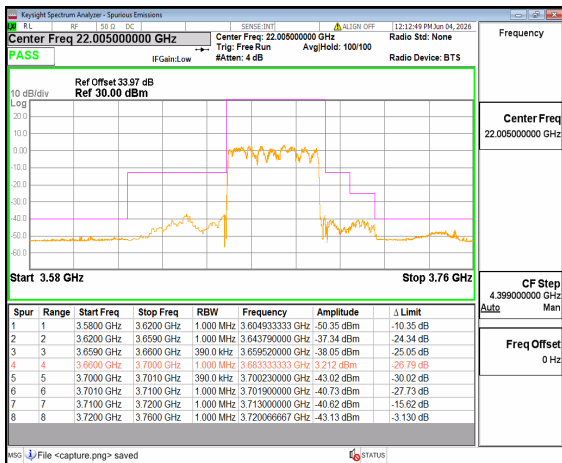
n48 40M DFT-s-OFDM QPSK Outer_Full Low



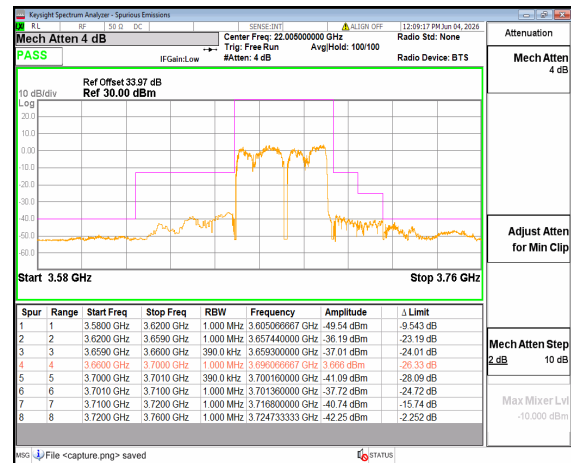
n48 40M DFT-s-OFDM BPSK Outer_Full Mid



n48 40M DFT-s-OFDM QPSK Outer_Full Mid



n48 40M DFT-s-OFDM BPSK Outer_Full High



n48 40M DFT-s-OFDM QPSK Outer_Full High

2.7. Radiated Spurious Emissions

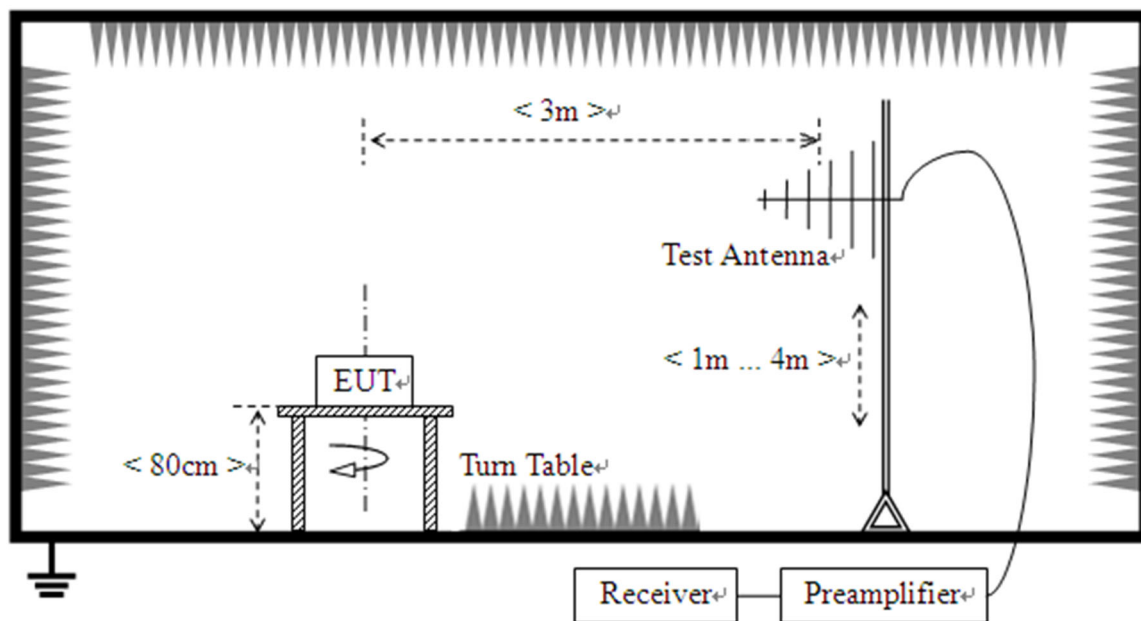
2.7.1. Requirement

According to FCC section 2.1051, section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB. This calculated to be -13dBm.

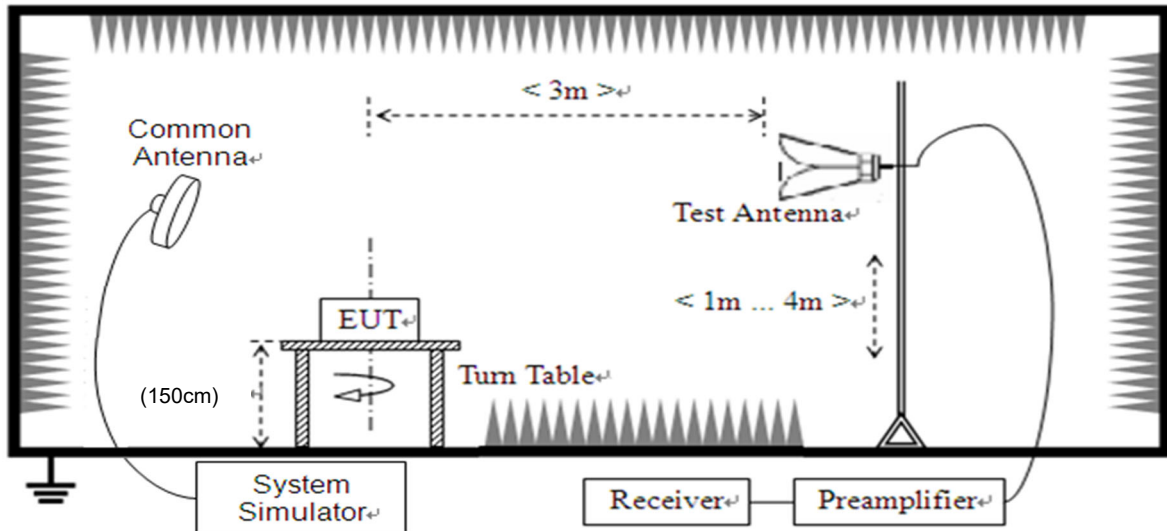
According to FCC section 96.41(e) for n48, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

According to FCC section 27.53(l)(2) for n77, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

2.7.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.5.

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize



2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

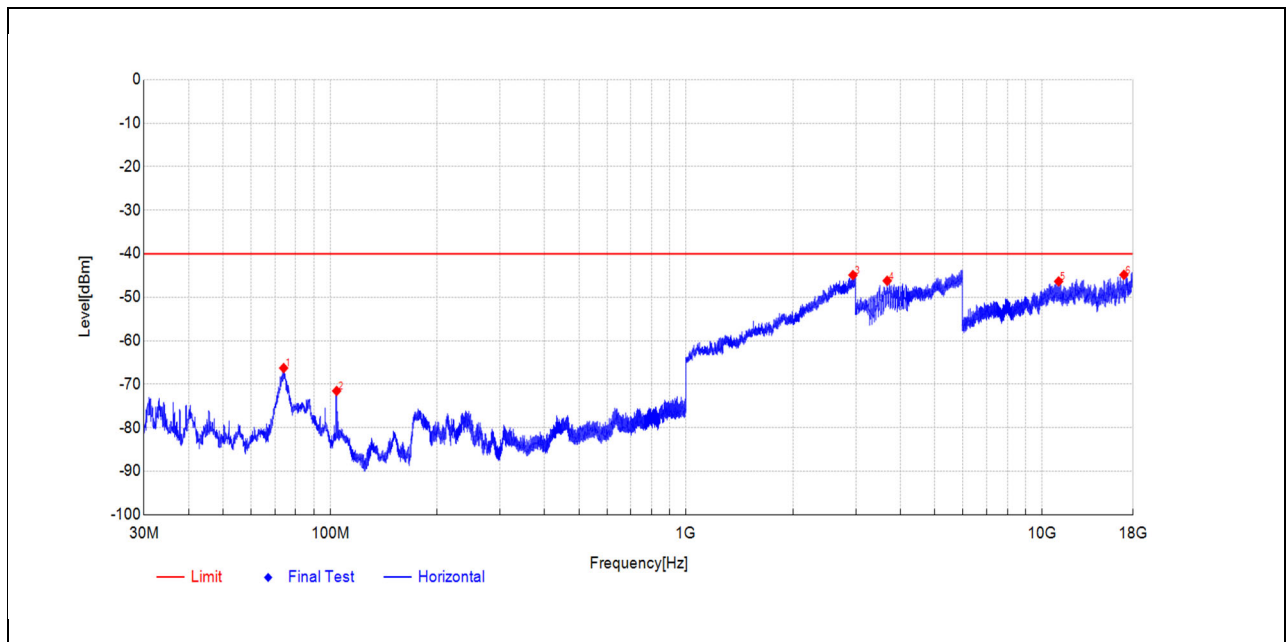
A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

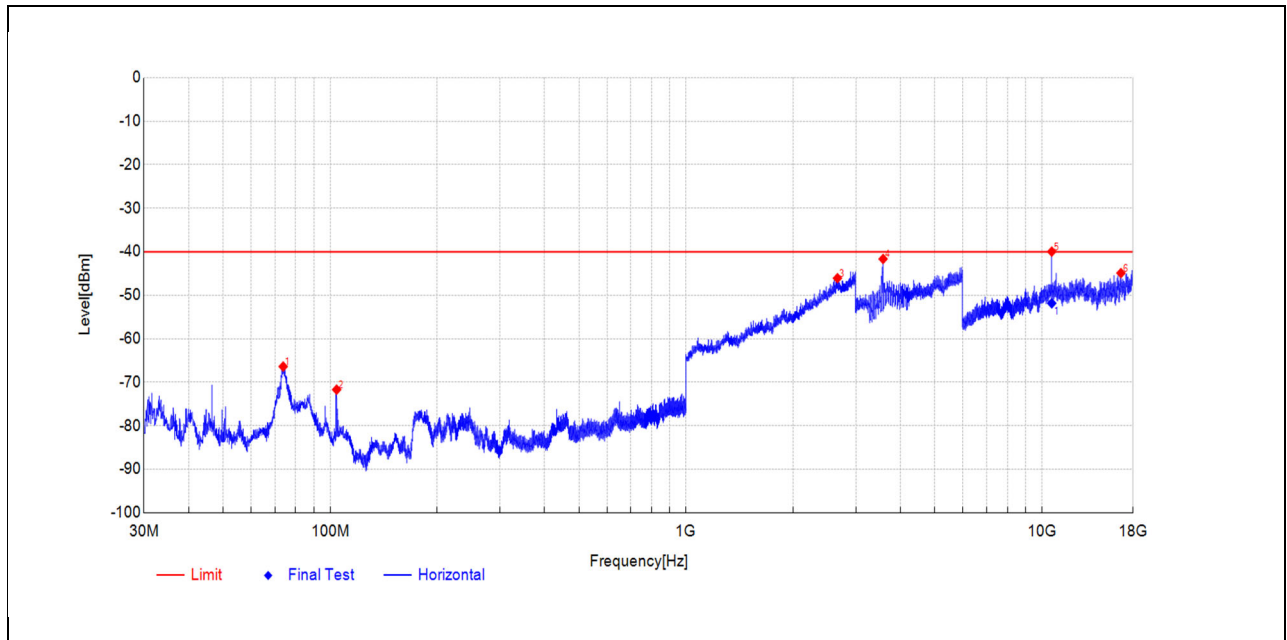
Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band; only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	74.0402	-44.45	-66.27	-21.8	-40.0	26.3	Horizontal	PK	118	PASS
2	104.3057	-49.04	-71.54	-22.5	-40.0	31.5	Horizontal	PK	96	PASS
3	2944.3889	-59.49	-44.91	14.6	-40.0	4.9	Horizontal	PK	157	PASS
4	3674.2392	-67.83	-46.21	21.6	-40.0	6.2	Horizontal	PK	334	PASS
5	11140.5256	-66.23	-46.36	19.9	-40.0	6.4	Horizontal	PK	282	PASS
6	16994.8398	-69.77	-44.85	24.9	-40.0	4.9	Horizontal	PK	5	PASS

H_NR SA_n48_HIGH_40M_30M-18G



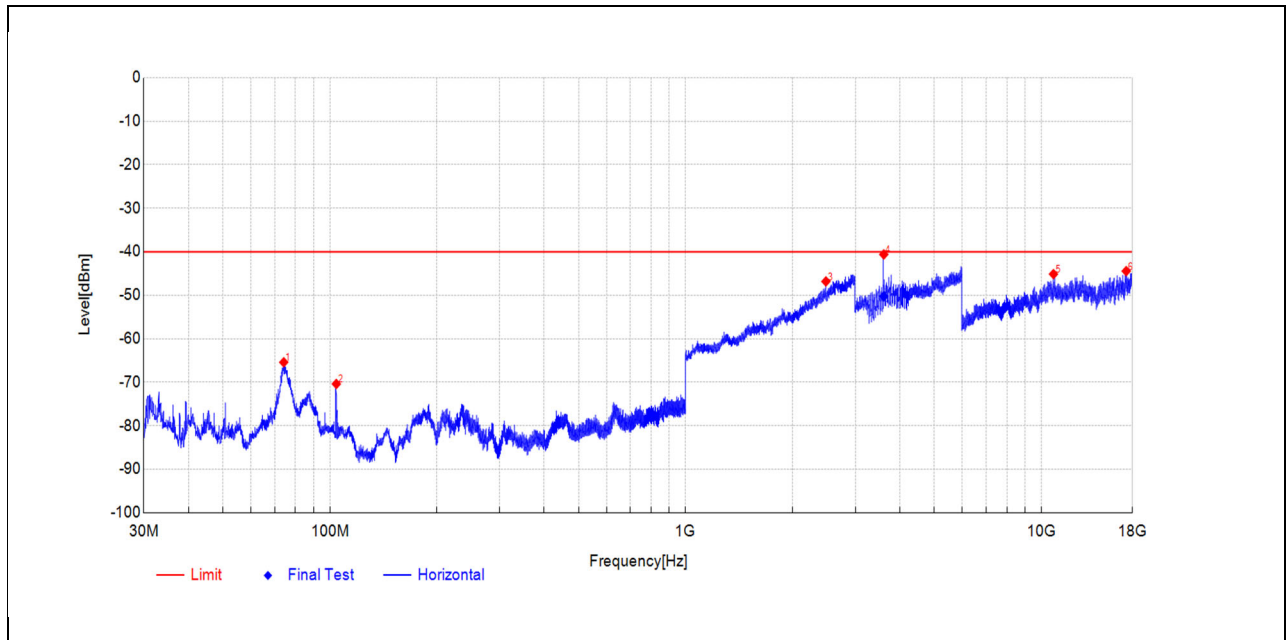
Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	73.7977	-44.64	-66.38	-21.7	-40.0	26.4	Horizontal	PK	140	PASS
2	104.3057	-49.20	-71.70	-22.5	-40.0	31.7	Horizontal	PK	5	PASS
3	2663.1326	-58.88	-46.07	12.8	-40.0	6.1	Horizontal	PK	332	PASS
4	3578.2255	-63.03	-41.65	21.4	-	-	Horizontal	PK	140	NA
5	10653.3061	-59.06	-39.96	19.1	-40.0	0.0	Horizontal	PK	144	NA
6	16670.8268	-69.59	-44.90	24.7	-40.0	4.9	Horizontal	PK	19	PASS

Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	10653.1259	-70.94	-51.84	19.1	-40.00	11.84	Horizontal	RMS	193.6	PASS

H_NR SA_n48_LOW_40M_30M-18G



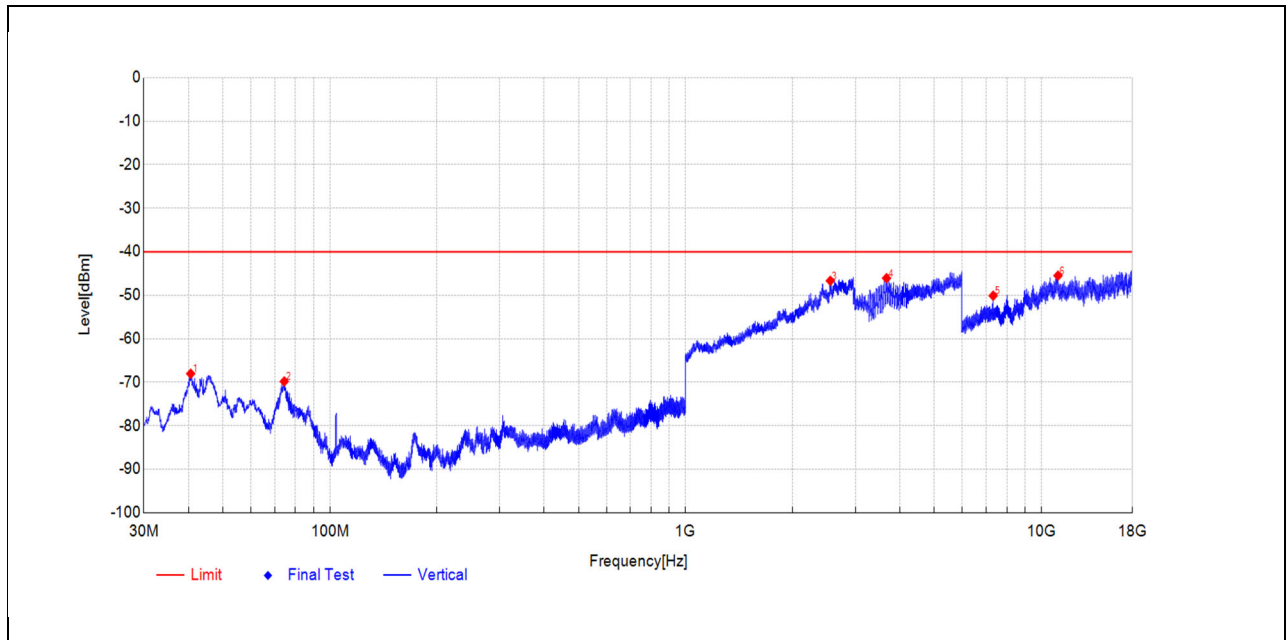
Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	74.1857	-43.53	-65.40	-21.9	-40.0	25.4	Horizontal	PK	116	PASS
2	104.2572	-47.89	-70.39	-22.5	-40.0	30.4	Horizontal	PK	334	PASS
3	2479.896	-57.17	-46.82	10.4	-40.0	6.8	Horizontal	PK	66	PASS
4	3606.5152	-62.02	-40.61	21.4	-40.0	0.6	Horizontal	PK	242	NA
5	10817.9527	-65.30	-45.13	20.2	-40.0	5.1	Horizontal	PK	192	PASS
6	17320.7728	-68.62	-44.45	24.2	-40.0	4.5	Horizontal	PK	151	PASS

Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	3606.0948	-71.66	-50.25	21.4	-40.00	10.25	Horizontal	RMS	132	PASS

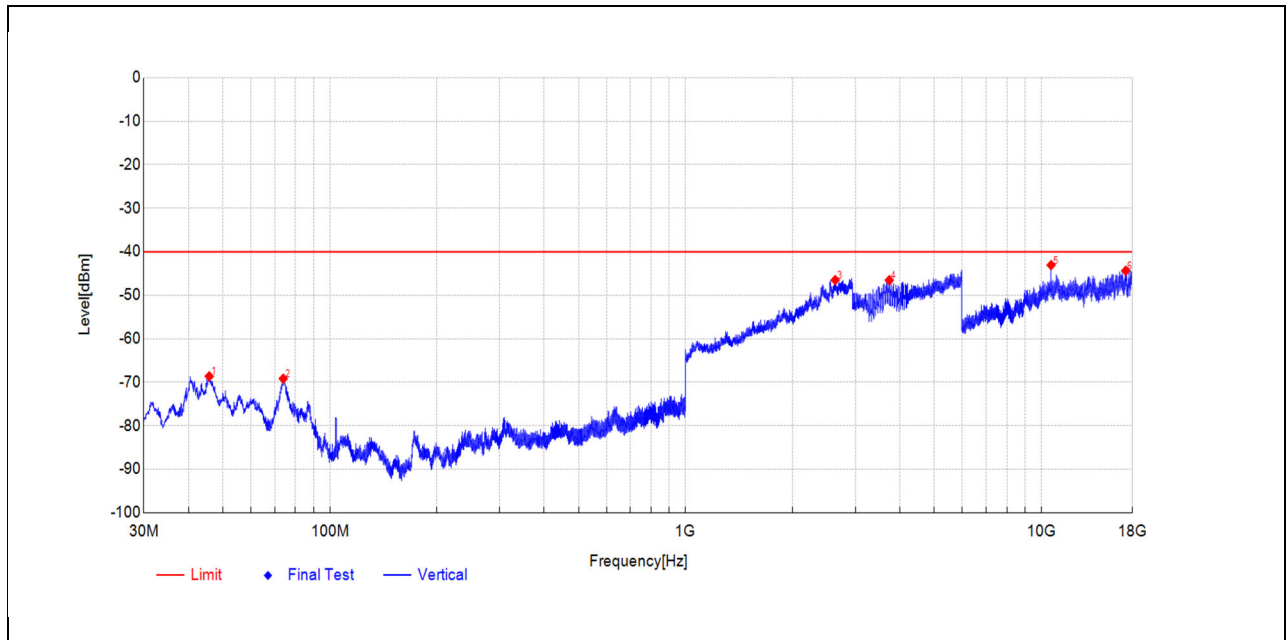
H_NR SA_n48_MID_40M_30M-18G



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	40.622	-46.39	-68.03	-21.6	-40.0	28.0	Vertical	PK	26	PASS
2	74.4282	-48.03	-69.81	-21.8	-40.0	29.8	Vertical	PK	26	PASS
3	2551.5103	-58.66	-46.66	12.0	-40.0	6.7	Vertical	PK	342	PASS
4	3671.6674	-67.63	-46.07	21.6	-40.0	6.1	Vertical	PK	114	PASS
5	7322.4529	-61.93	-50.11	11.8	-40.0	10.1	Vertical	PK	154	PASS
6	11139.0856	-67.22	-45.49	21.7	-40.0	5.5	Vertical	PK	48	PASS

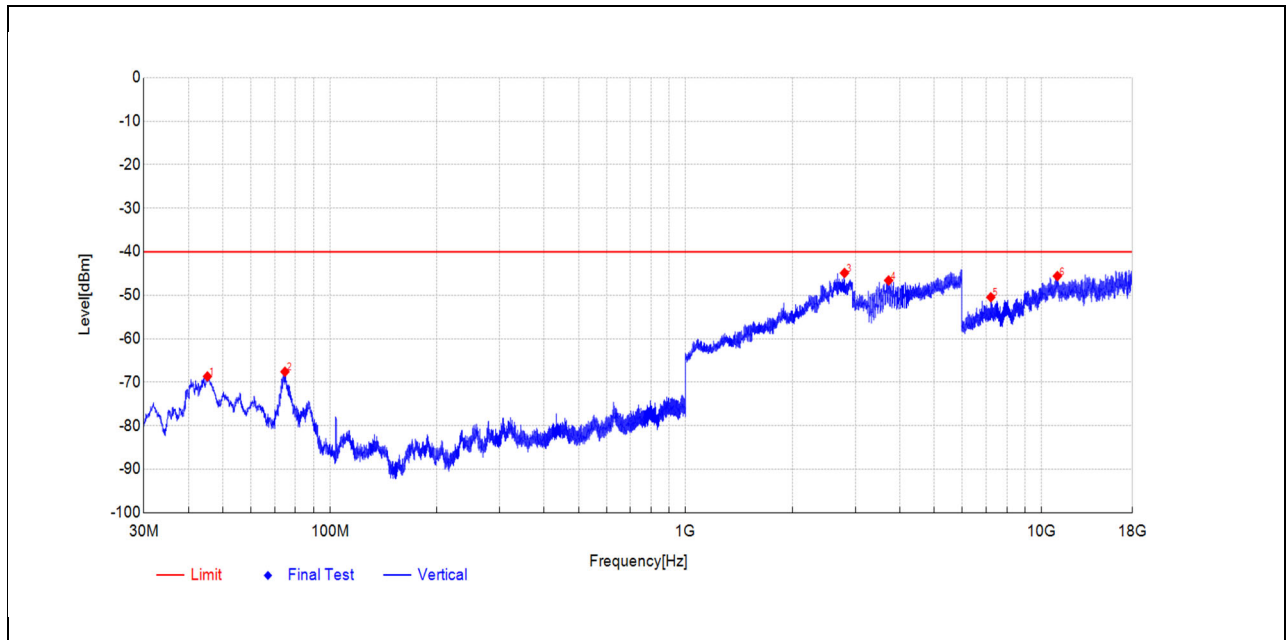
V_NR SA_n48_HIGH_40M_30M-18G



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	45.8118	-48.74	-68.63	-19.9	-40.0	28.6	Vertical	PK	5	PASS
2	73.9432	-47.53	-69.18	-21.7	-40.0	29.2	Vertical	PK	269	PASS
3	2633.9268	-59.08	-46.51	12.6	-40.0	6.5	Vertical	PK	229	PASS
4	3736.3909	-67.98	-46.54	21.4	-40.0	6.5	Vertical	PK	91	PASS
5	10652.8261	-62.79	-43.07	19.7	-40.0	3.1	Vertical	PK	103	PASS
6	17265.0906	-68.79	-44.36	24.4	-40.0	4.4	Vertical	PK	355	PASS

V_NR SA_n48_LOW_40M_30M-18G



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	45.2783	-48.59	-68.66	-20.1	-40.0	28.7	Vertical	PK	355	PASS
2	74.7677	-45.73	-67.59	-21.9	-40.0	27.6	Vertical	PK	68	PASS
3	2797.5595	-57.06	-44.88	12.2	-40.0	4.9	Vertical	PK	216	PASS
4	3722.246	-68.13	-46.60	21.5	-40.0	6.6	Vertical	PK	90	PASS
5	7212.0485	-61.82	-50.46	11.4	-40.0	10.5	Vertical	PK	132	PASS
6	11095.8838	-67.54	-45.60	21.9	-40.0	5.6	Vertical	PK	279	PASS

V_NR SA_n48_MID_40M_30M-18G



2.8. End User Device Additional Requirements (CBSD Protocol)

2.8.1.Requirement

According to FCC section Part 96.47,

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.
- (b) Any device operated at higher power than specified for End User Devices in Part 96.41 will be classified as, and subject to, the operational requirements of a CBSD.

2.8.2.Test Description

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSD (Kingsignal LBS7320 FCC ID: P27-SCE5164-B48) as a companion device to show compliance with Part 96.47. End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

2.8.3.Test Procedure

KDB 940660 D01 Part 96 CBRS Eqpt v02.

2.8.4.Test Result

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer
Test Graph 1:

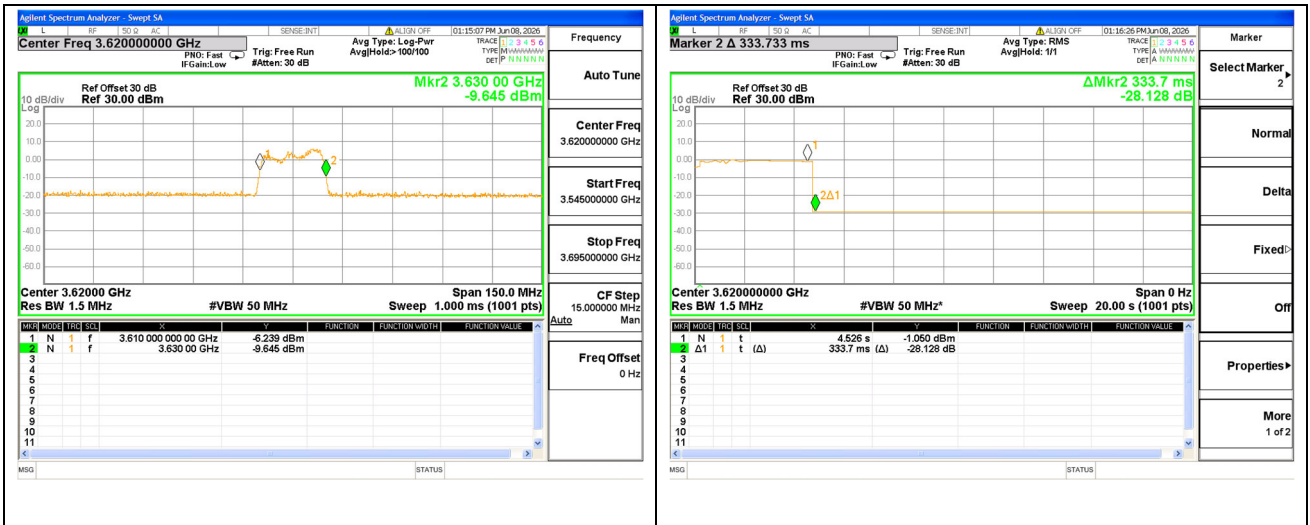
- a. Setup frequency with 3620MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.

Test Graph 2:

- a. Setup frequency with 3670MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s



Test Graph 1

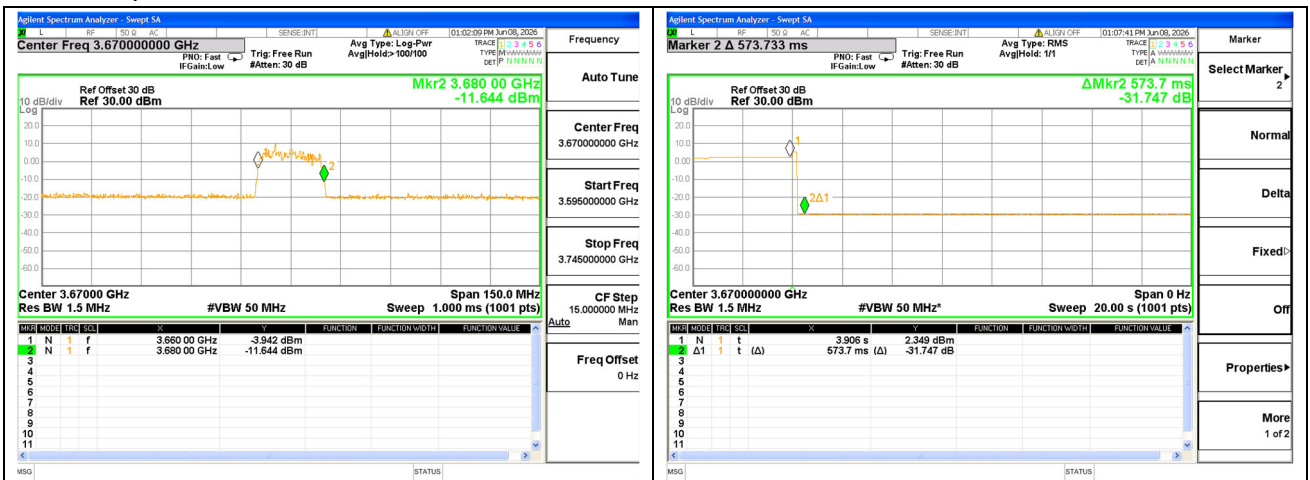


Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation

Test Graph 2



Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.1-3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P.R. China. Morlab facility is a registered (7183A) test laboratory with the site description on file with ISED, Conformity Assessment Body Identifier (CABID):CN0062.



REPORT No.: SZ6040328Y07

4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	N/A	N/A
Directional Coupler (10-67GHz)	N/A	110067016	KRYTAR	N/A	N/A
Attenuator	N/A	20dB	Resnet	N/A	N/A
Attenuator (DC-40GHz)	N/A	10dB	RFTOP	N/A	N/A
EXA Signal Analyzer	MY54170556	N9030A	Keysight	2025.09.02	2026.09.01
System Simulator	6262012906	MT8000A	Anritsu	2026.04.28	2027.04.27
System Simulator	6261830572	MT8821C	Anritsu	2025.12.24	2026.12.23
System Simulator	MY58300665	E7515B	Anritsu	2025.09.02	2026.09.01
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
RF cable (DC-40GHz)	N/A	NYK360	Qualwave	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	S02217710100089001	KMT-36LF1A0	KOMEG	2025.09.03	2026.09.02

**4.2 Radiated Test Equipment**

Equipment Name	Type	Serial No.	Manufacturer	Cal. Date	Due Date
Bi-Log Antenna	VULB 9163	9163-274	SCHWARZBECK	2025/6/28	2026/6/27
Horn Antenna	BBHA 9120D	9120D-963	SCHWARZBECK	2026/5/9	2027/5/8
Receiver	N9038A	MY56400093	KEYSIGHT	2025/12/26	2026/12/25
Signal Analyzer	N9020A	MY56060145	Agilent	2026/4/28	2027/4/27
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2025/9/3	2026/9/2
Preamplifier (2GHz-18GHz)	S020180L3203	61171/61172	LUCIX CORP.	2026/5/7	2027/5/6
Preamplifier (10MHz-6GHz)	S10M100L3802	46732	LUCIX CORP.	2026/5/7	2027/5/6
Preamplifier (18GHz-40GHz)	DCLNA0118-40C-S	DS77209	Decentest	2026/5/7	2027/5/6
System Simulator	CMW500	152038	R&S	2025/9/3	2026/9/2
System Simulator	8960-E5515C	MY48364176	Agilent	2025/12/23	2026/12/22
System Simulator	MT8000A	6262148249	anritsu	2026/4/28	2027/4/27
System Simulator	MT8821C	6261830572	anritsu	2025/12/24	2026/12/23
RF Coaxial Cable	NA	24111402-001+24111402-001	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable	NA	24111402-001	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable	NA	24111402-002+24111402-002	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable	NA	24111402-001+24111402-002	TIMES Microwave	2025/9/3	2026/9/2



REPORT No.: SZ6040328Y07

RF Coaxial Cable	NA	24111402-002+24111402-001	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable	NA	24111402-001+24111402-001	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable	NA	723692-0001	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable	NA	692839-0007+24111402-001	TIMES Microwave	2025/9/3	2026/9/2
RF Coaxial Cable (DC-40GHz)	RCA360-40MM-1000	158230831+1528032	Qualwave	2025/9/3	2026/9/2
RF Coaxial Cable (DC-40GHz)	QA360-40-KKF-2	22290046	Qualwave	2025/9/3	2026/9/2



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

_____ END OF REPORT _____