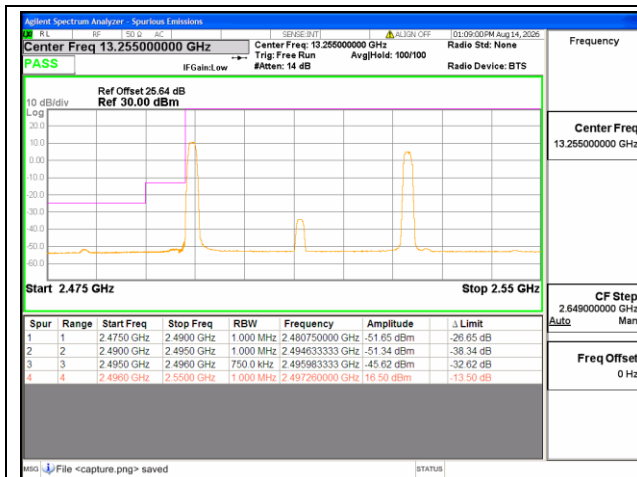
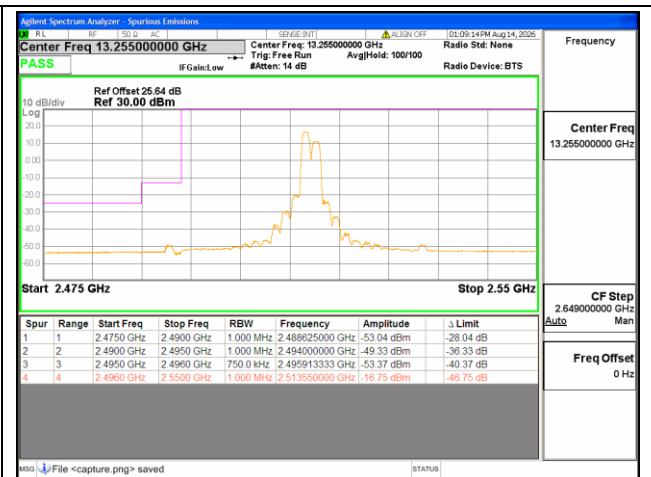
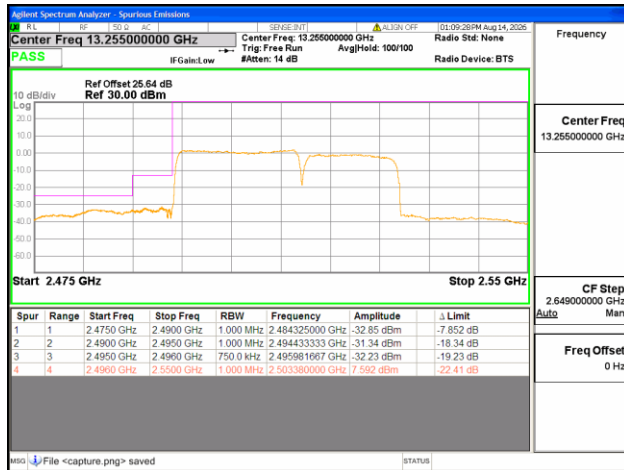
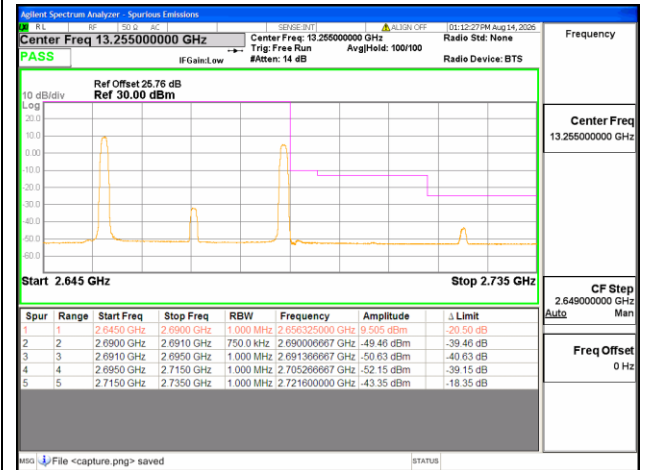




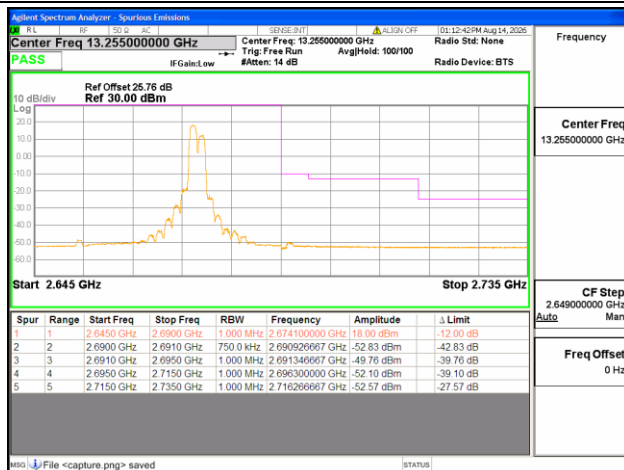
41C / 20+15MHz / Low CH / QPSK / 1#0-1#74



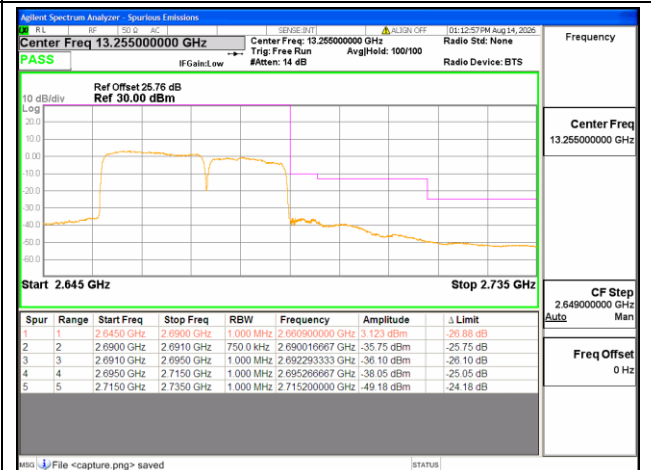
41C / 20+15MHz / Low CH / QPSK / 1#99-1#0

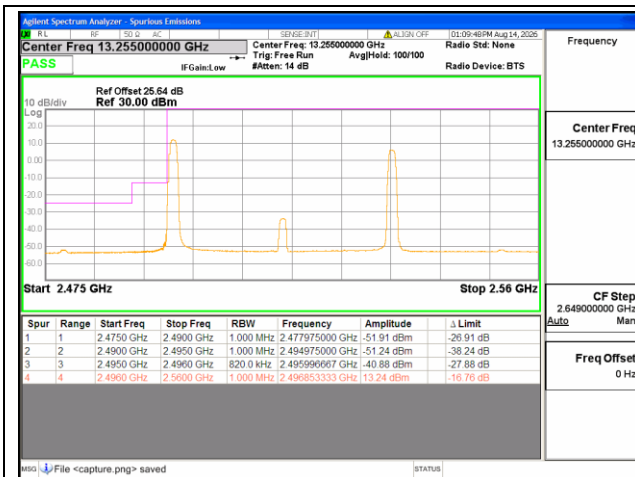
41C / 20+15MHz / Low CH / QPSK /
100#0-75#0

41C / 20+15MHz / High CH / QPSK / 1#0-1#74

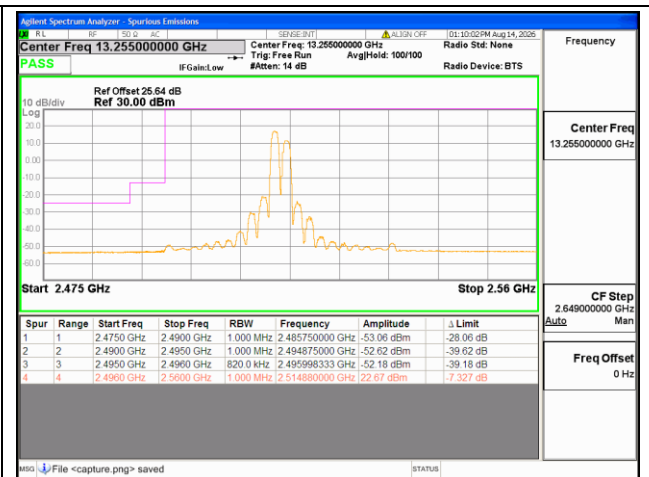


41C / 20+15MHz / High CH / QPSK / 1#99-1#0

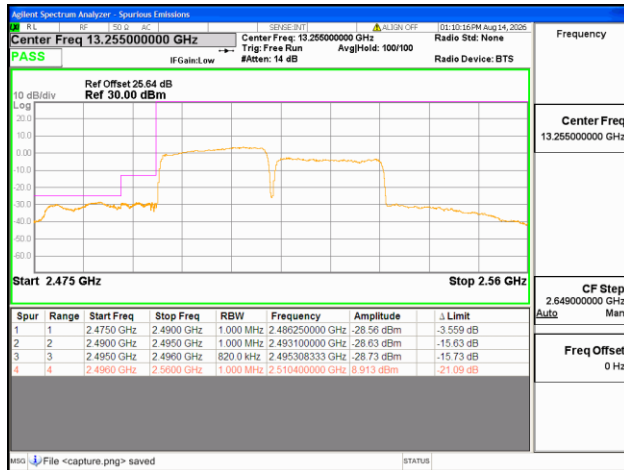
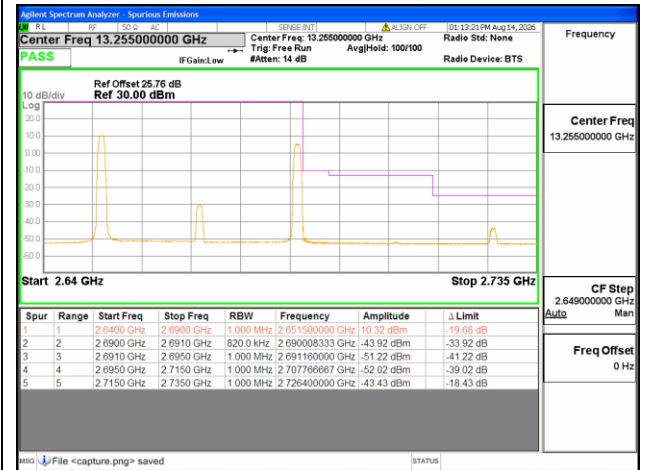
41C / 20+15MHz / High CH / QPSK /
100#0-75#0



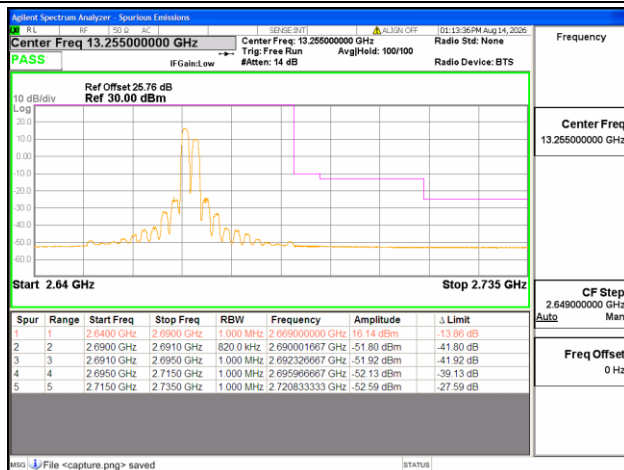
41C / 20+20MHz / Low CH / QPSK / 1#0-1#99



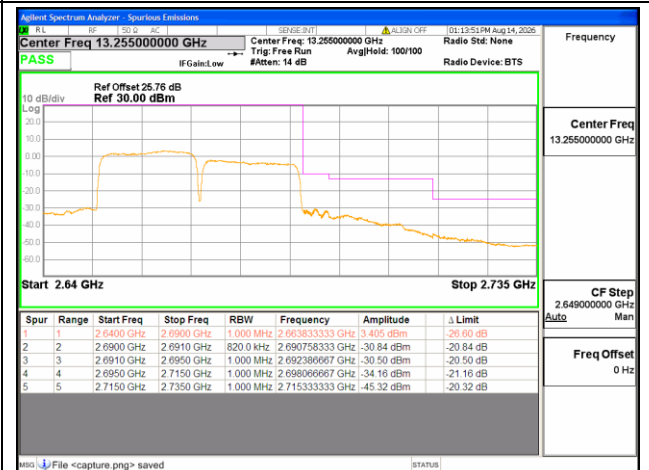
41C / 20+20MHz / Low CH / QPSK / 1#99-1#0

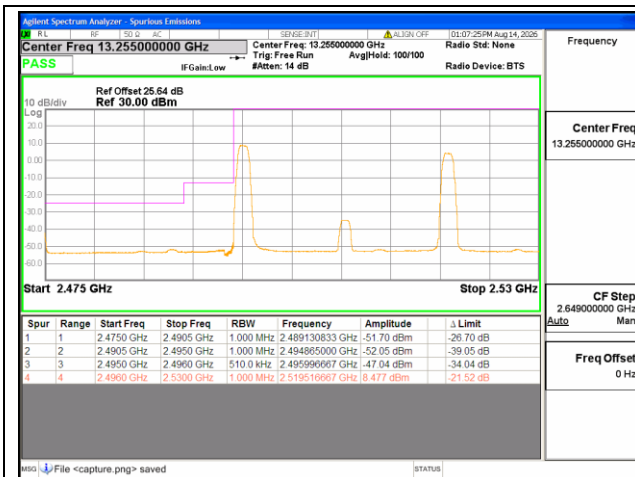
41C / 20+20MHz / Low CH / QPSK /
100#0-100#0

41C / 20+20MHz / High CH / QPSK / 1#0-1#99

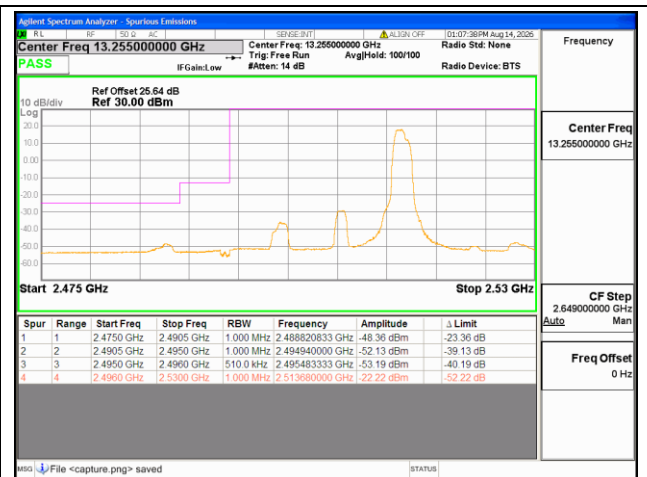


41C / 20+20MHz / High CH / QPSK / 1#99-1#0

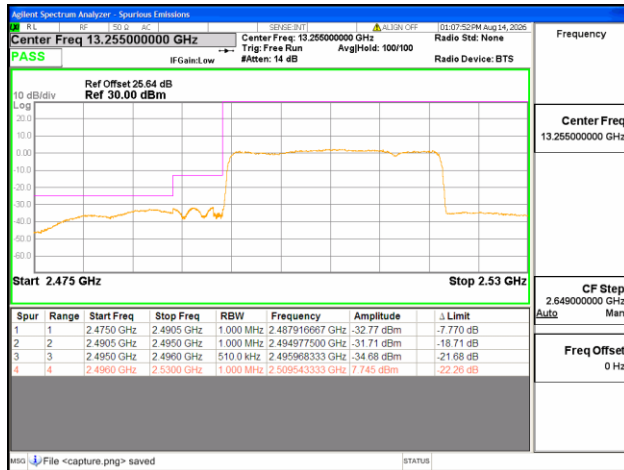
41C / 20+20MHz / High CH / QPSK /
100#0-100#0



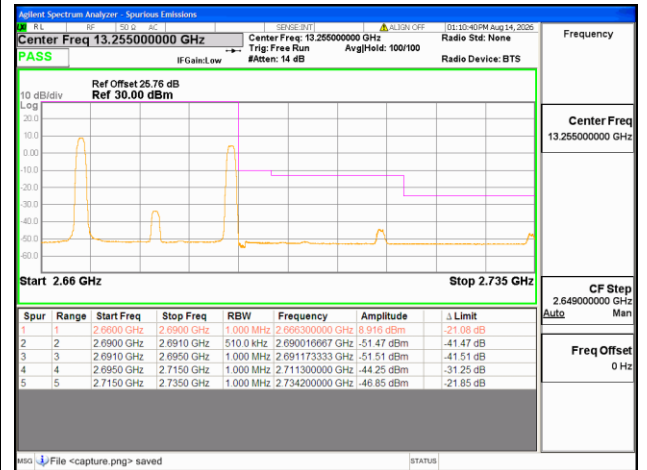
41C / 20+5MHz / Low CH / QPSK / 1#0-1#24



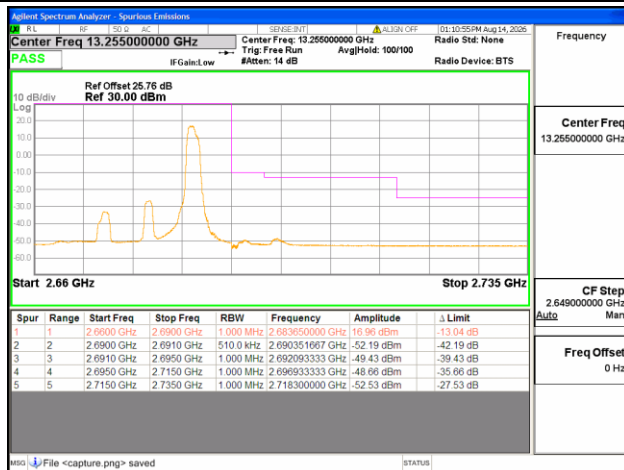
41C / 20+5MHz / Low CH / QPSK / 1#99-1#0



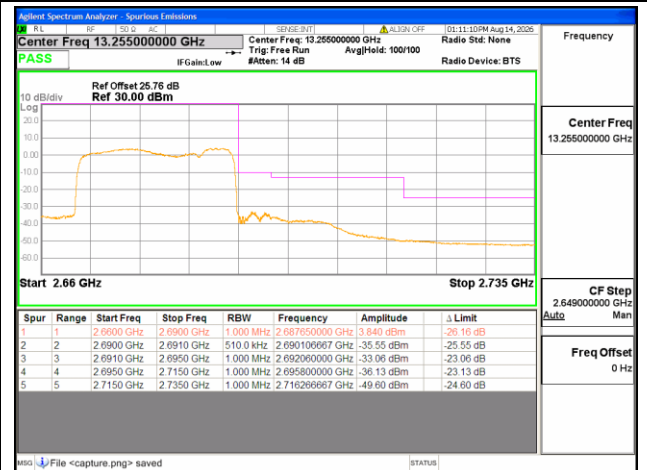
41C / 20+5MHz / Low CH / QPSK / 100#0-25#0



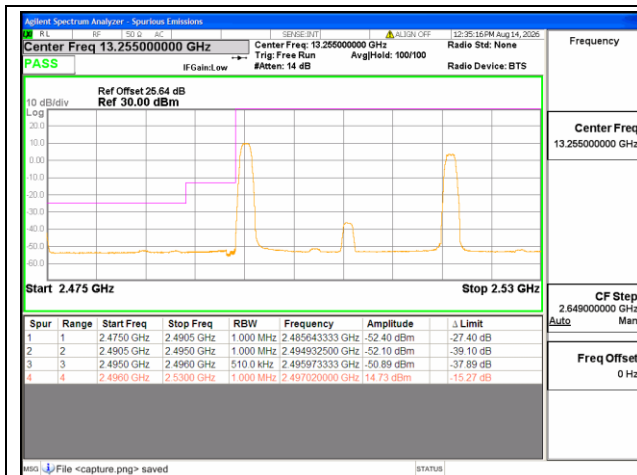
41C / 20+5MHz / High CH / QPSK / 1#0-1#24



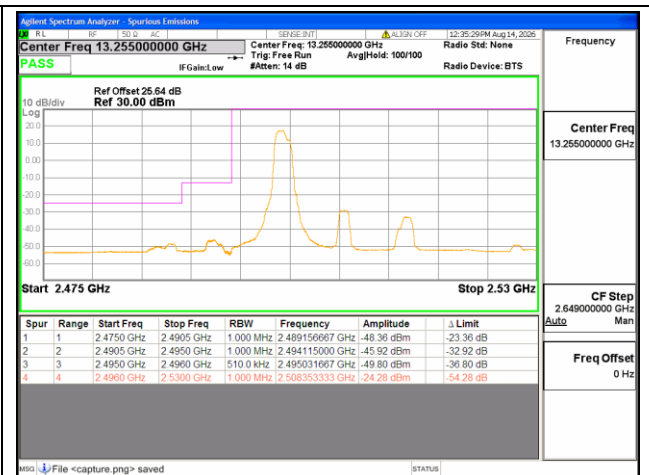
41C / 20+5MHz / High CH / QPSK / 1#99-1#0



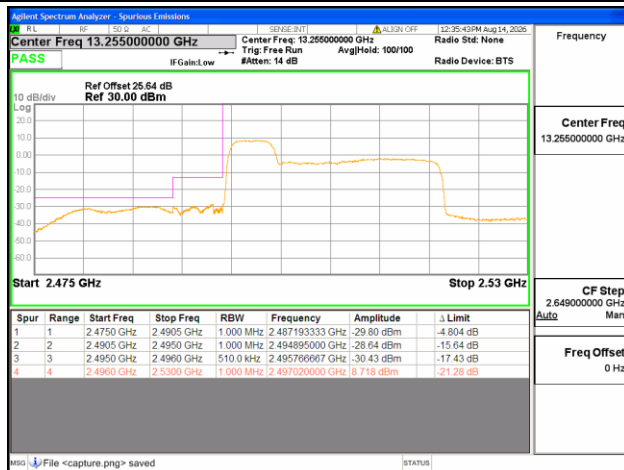
41C / 20+5MHz / High CH / QPSK / 100#0-25#0



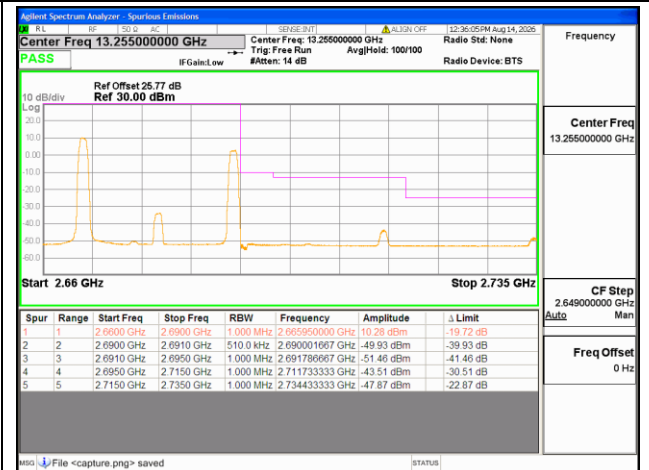
41C / 5+20MHz / Low CH / QPSK / 1#0-1#99



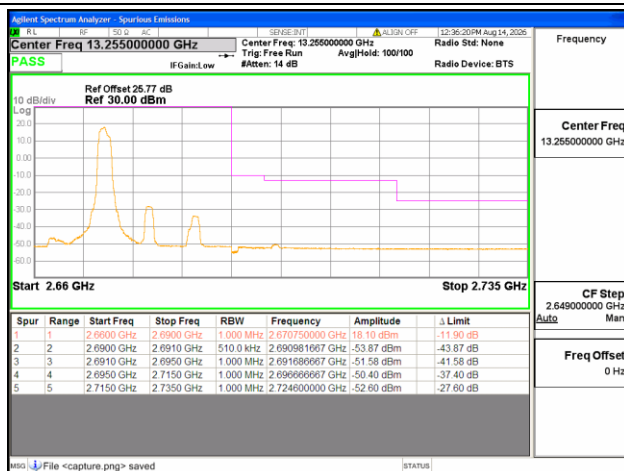
41C / 5+20MHz / Low CH / QPSK / 1#24-1#0



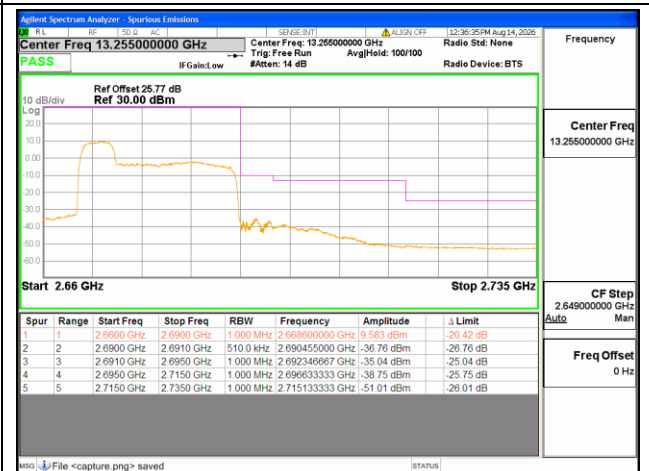
41C / 5+20MHz / Low CH / QPSK / 25#0-100#0



41C / 5+20MHz / High CH / QPSK / 1#0-1#99



41C / 5+20MHz / High CH / QPSK / 1#24-1#0



41C / 5+20MHz / High CH / QPSK / 25#0-100#0

2.5. Radiated Spurious Emissions

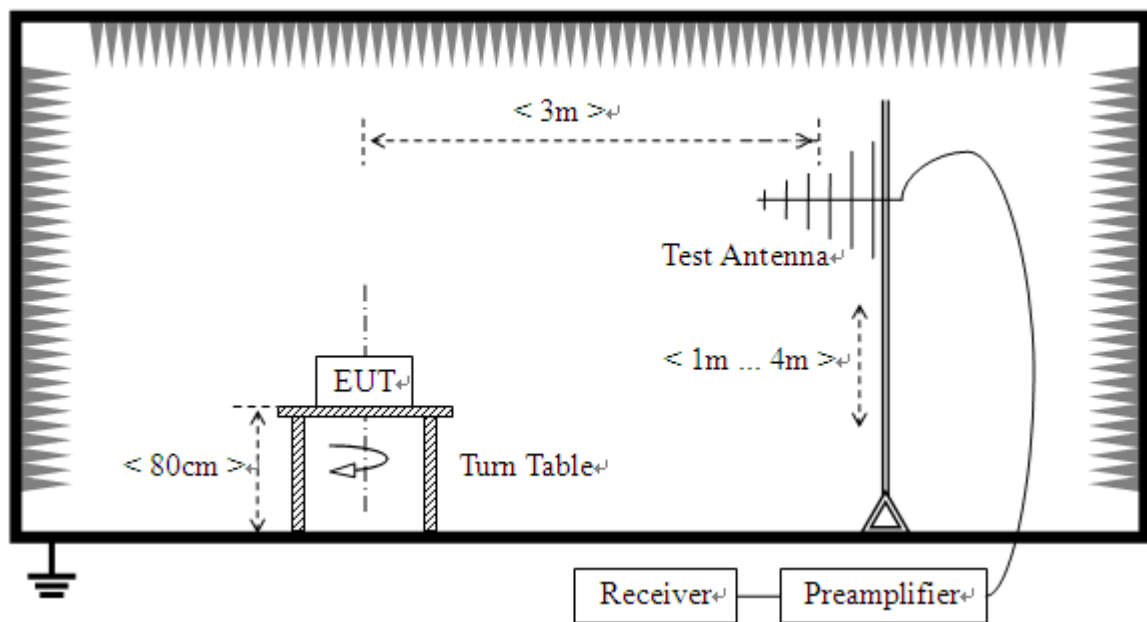
2.5.1. Requirement

According to FCC section 2.1051, 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.

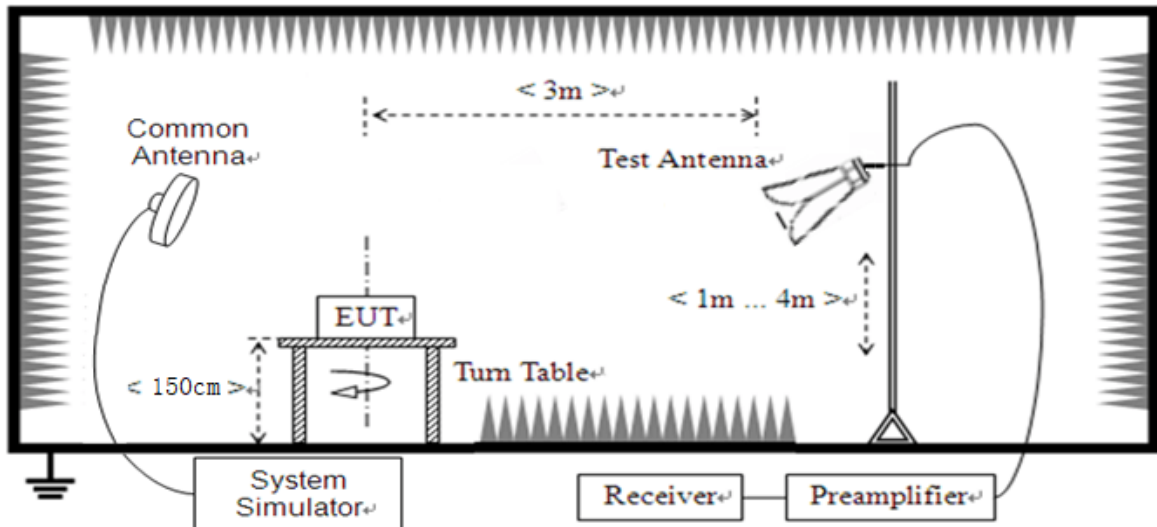
Additional requirement for LTE Band 7/41:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

2.5.2. 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.

2.5.3. Test Procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

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

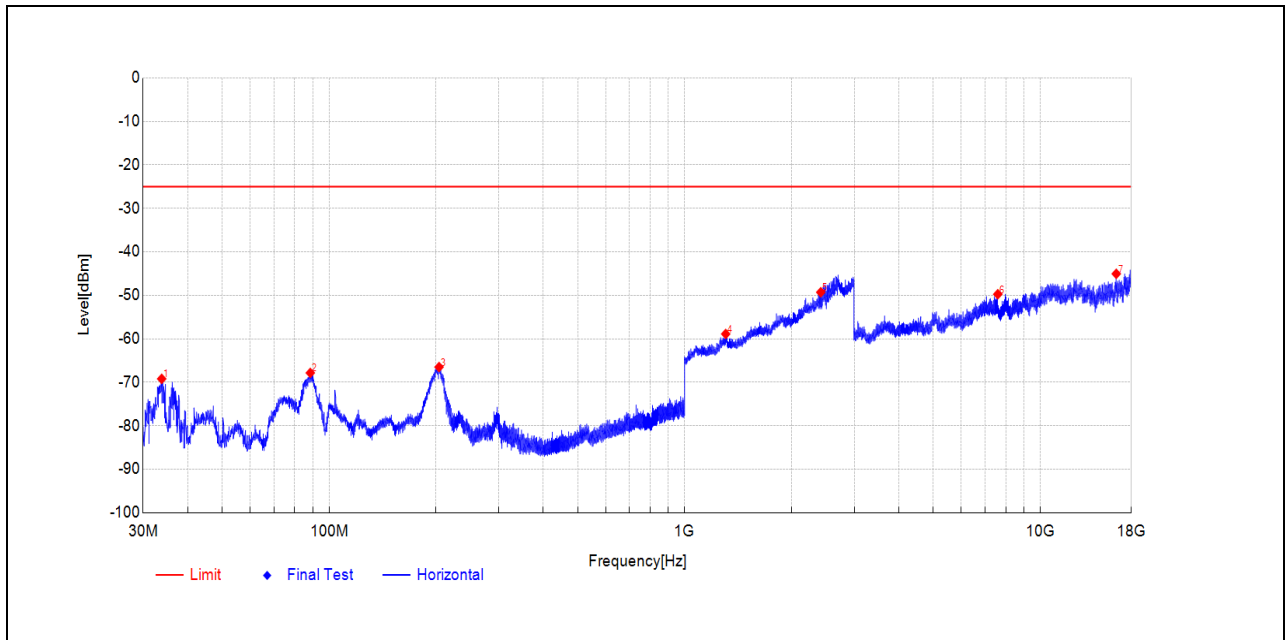
During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT} .

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.

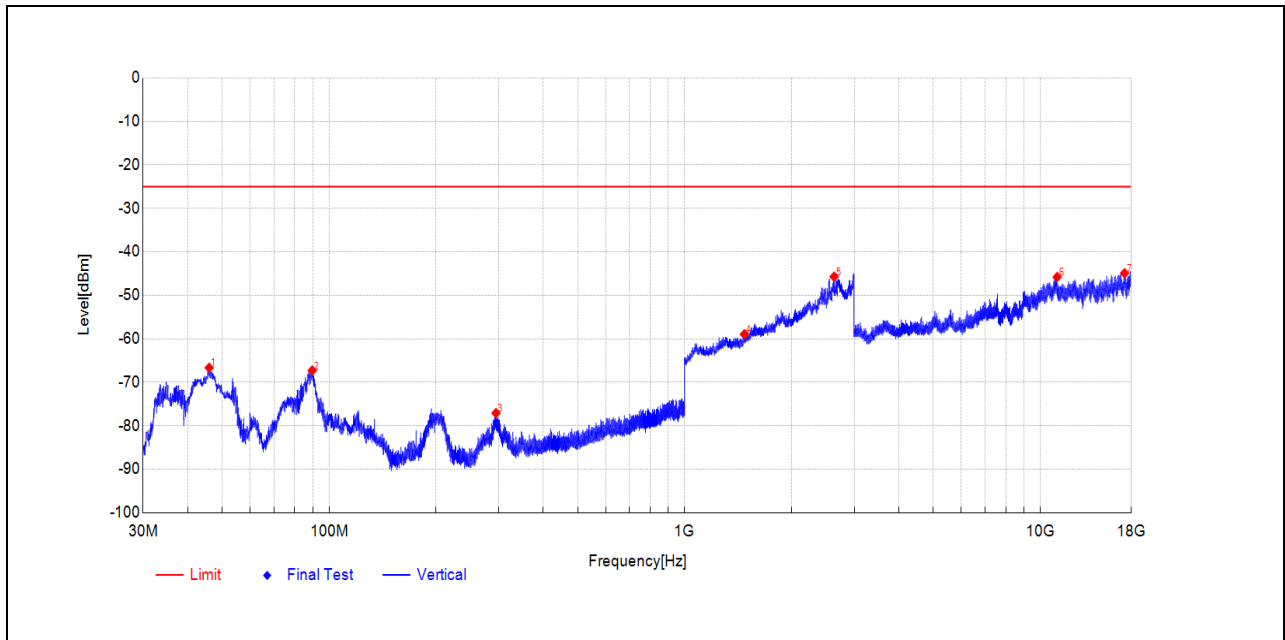
Note 4: N/A means the frequency is the basic frequency or the base station frequency; they are no need to verdict.



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	33.8317	-54.03	-69.20	-15.2	-25.0	44.2	Horizontal	PK	111	PASS
2	88.5424	-44.45	-67.84	-23.4	-25.0	42.8	Horizontal	PK	333	PASS
3	203.8327	-49.36	-66.49	-17.1	-25.0	41.5	Horizontal	PK	5	PASS
4	1304.4609	-58.48	-58.88	-0.4	-25.0	33.9	Horizontal	PK	334	PASS
5	2414.2829	-58.19	-49.29	8.9	-25.0	24.3	Horizontal	PK	313	PASS
6	7595.5838	-61.50	-49.74	11.8	-25.0	24.7	Horizontal	PK	76	PASS
7	16361.6945	-70.22	-45.04	25.2	-25.0	20.0	Horizontal	PK	120	PASS

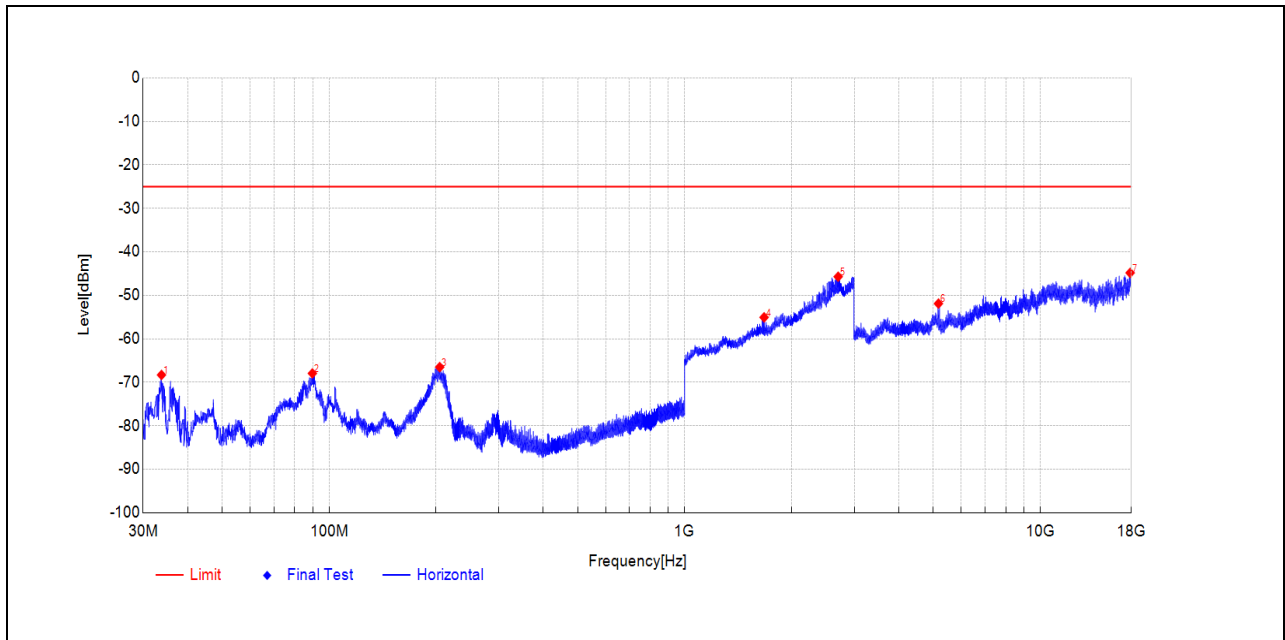
RSE_H_LTE_CA_7C_MID_20M_30M-18G



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	46.0058	-46.79	-66.65	-19.9	-25.0	41.7	Vertical	PK	5	PASS
2	89.658	-44.99	-67.28	-22.3	-25.0	42.3	Vertical	PK	47	PASS
3	294.6292	-60.48	-77.08	-16.6	-25.0	52.1	Vertical	PK	354	PASS
4	1472.0944	-58.87	-58.94	-0.1	-25.0	33.9	Vertical	PK	247	PASS
5	2631.5263	-59.00	-45.71	13.3	-25.0	20.7	Vertical	PK	313	PASS
6	11159.2464	-67.40	-45.77	21.6	-25.0	20.8	Vertical	PK	56	PASS
7	17265.5706	-69.32	-44.89	24.4	-25.0	19.9	Vertical	PK	313	PASS

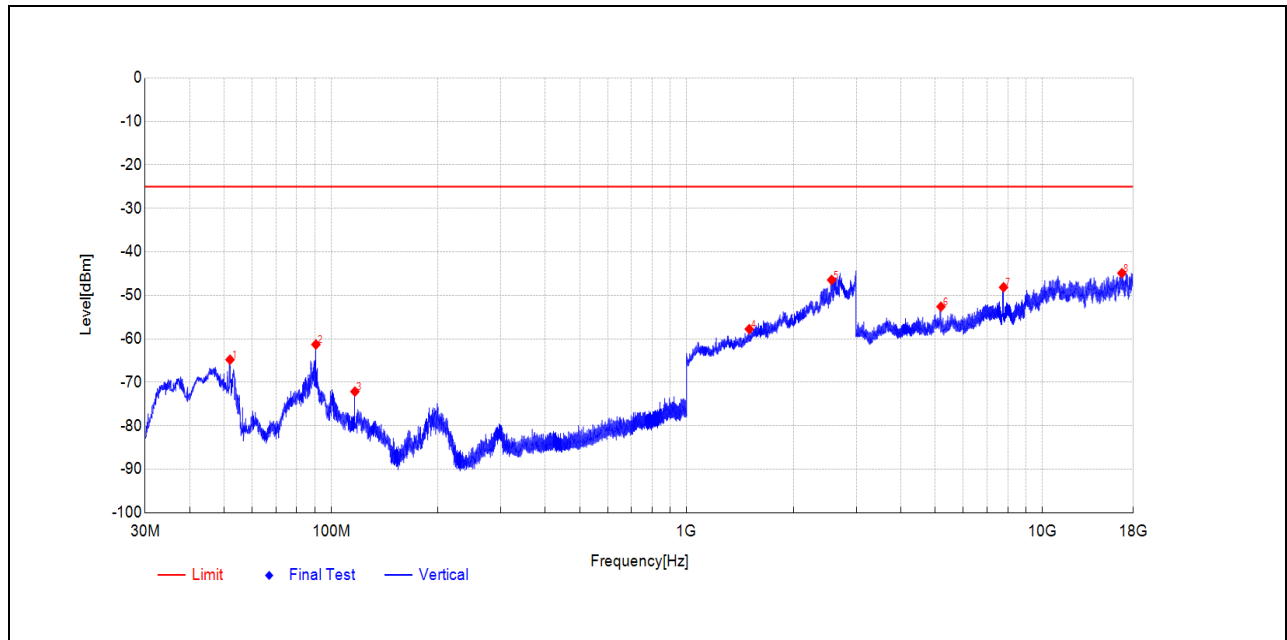
RSE_V_LTE_CA_7C_MID_20M_30M-18G



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	33.7832	-53.13	-68.30	-15.2	-25.0	43.3	Horizontal	PK	5	PASS
2	89.755	-44.60	-67.94	-23.3	-25.0	42.9	Horizontal	PK	333	PASS
3	204.7057	-49.52	-66.50	-17.0	-25.0	41.5	Horizontal	PK	170	PASS
4	1672.5345	-56.98	-55.06	1.9	-25.0	30.1	Horizontal	PK	121	PASS
5	2701.9404	-59.25	-45.70	13.6	-25.0	20.7	Horizontal	PK	185	PASS
6	5173.5962	-57.26	-51.89	5.4	-25.0	26.9	Horizontal	PK	46	PASS
7	17903.0361	-69.30	-44.82	24.5	-25.0	19.8	Horizontal	PK	142	PASS

RSE_H_LTE_CA_41C_MID_20M_30M-18G



Data List

No.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	51.9716	-46.90	-64.80	-17.9	-25.0	39.8	Vertical	PK	47	PASS
2	90.628	-39.10	-61.30	-22.2	-25.0	36.3	Vertical	PK	47	PASS
3	116.7223	-52.07	-72.13	-20.1	-25.0	47.1	Vertical	PK	171	PASS
4	1499.6999	-58.10	-57.77	0.3	-25.0	32.8	Vertical	PK	249	PASS
5	2556.3113	-59.10	-46.46	12.6	-25.0	21.5	Vertical	PK	185	PASS
6	5190.3129	-57.55	-52.60	5.0	-25.0	27.6	Vertical	PK	214	PASS
7	7784.7114	-59.48	-48.14	11.3	-25.0	23.1	Vertical	PK	77	PASS
8	16746.1898	-70.47	-44.89	25.6	-25.0	19.9	Vertical	PK	313	PASS

RSE_V_LTE_CA_41C_MID_20M_30M-18G



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





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory 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. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY54170556	N9030A	Agilent	2026.04.28	2027.04.27
Communication Test Station	6261830572	MT8821C	Anritsu	2025.09.02	2026.09.01
Temperature Chamber	S022177101 00089002	KMT-36LF1A0	KOMEG	2025.09.03	2026.09.02
Power Splitter	NW521	1506A	Weinschel	N/A	N/A
Directional Coupler (10-67GHz)	N/A	110067016	KRYTAR	N/A	N/A
Attenuator 1	N/A	10dB	Resnet	N/A	N/A
Attenuator (DC-40GHz)	N/A	10dB	RFTOP	N/A	N/A
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
RF cable (DC-40GHz)	N/A	NYK360	Qualwave	N/A	N/A
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 List of Software Used

Description	Manufacturer	Software Version
MOR-2023E Test System	MORLAB	V7.99
JS36-RSE	Tonscend	5.0.0

**4.3 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Loop Antenna	00131	FMZB 1519B	SCHWARZBECK	2025.09.08	2026.09.07
Bi-Log Antenna	9163-274	VULB 9163	SCHWARZBECK	2025.06.28	2026.06.27
				2026.06.28	2027.06.27
Horn Antenna	9120D-963	BBHA 9120D	SCHWARZBECK	2026.05.09	2027.05.08
Horn Antenna	BBHA9170#773	BBHA9170	SCHWARZBECK	2025.06.20	2026.06.19
				2026.05.30	2027.05.29
Receiver	MY56400093	N9038A	KEYSIGHT	2025.12.24	2026.12.23
Signal Analyzer	MY56060145	N9020A	Agilent	2026.04.28	2027.04.27
6db Attenuator	E191001	BW-N6W5+	Mini-circuits	2025.09.03	2026.09.02
Preamplifier (2GHz-18GHz)	61171/61172	S020180L320 3	LUCIX CORP.	2026.05.07	2027.05.06
Preamplifier (10MHz-6GHz)	46732	S10M100L380 2	LUCIX CORP.	2026.05.07	2027.05.06
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-4 0C-S	Decentest	2026.05.07	2027.05.06
System Simulator	152038	CMW500	R&S	2025.09.03	2026.09.02
System Simulator	MY48364176	8960-E5515C	Agilent	2025.12.23	2026.12.22
System Simulator	6262148249	MT8000A	anritsu	2026.04.28	2027.04.27
RF Coaxial Cable	24111402-001+ 24111402-001	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable	24111402-001	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable	24111402-002+ 24111402-002	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable	24111402-001+ 24111402-002	NA	TIMES Microwave	2025.09.03	2026.09.02



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RF Coaxial Cable	24111402-002+ 24111402-001	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable	24111402-001+ 24111402-001	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable	723692-0001	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable	692839-0007+2 4111402-001	NA	TIMES Microwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-40GHz)	158230831+152 8032	RCA360-40M M-1000	Qualwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KK F-2	Qualwave	2025.09.03	2026.09.02





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).
7. "*" This item is not accredited in A2LA scope.

_____ END OF REPORT _____

