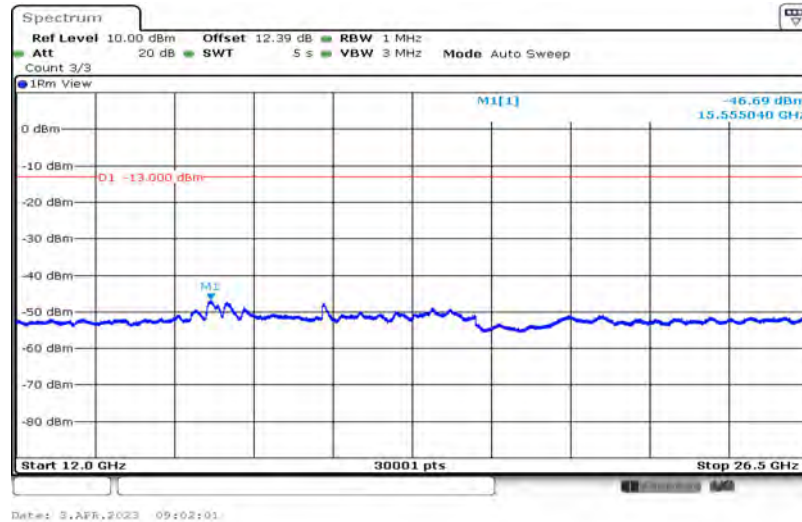
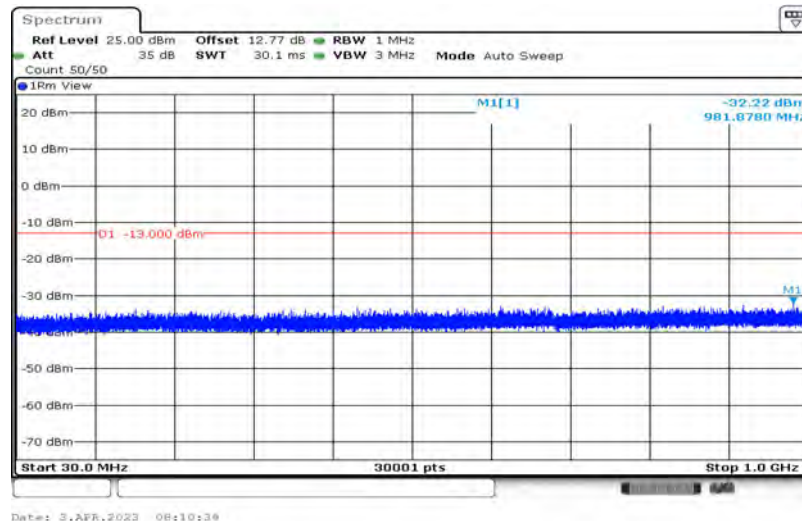
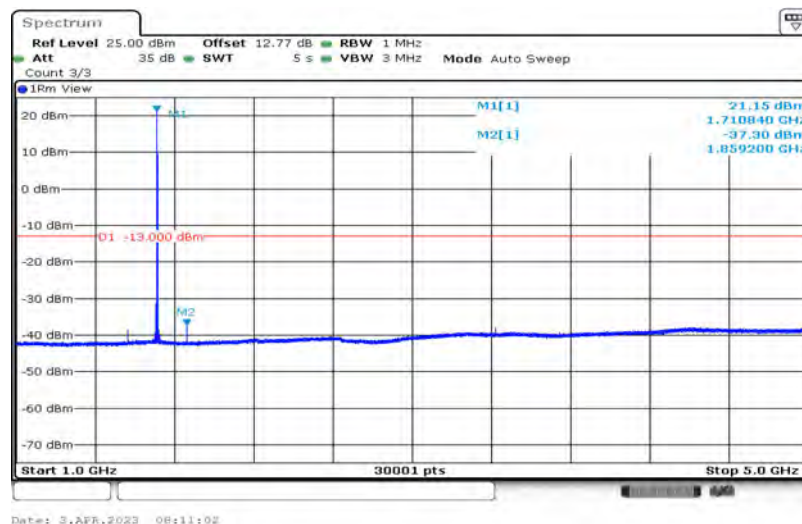




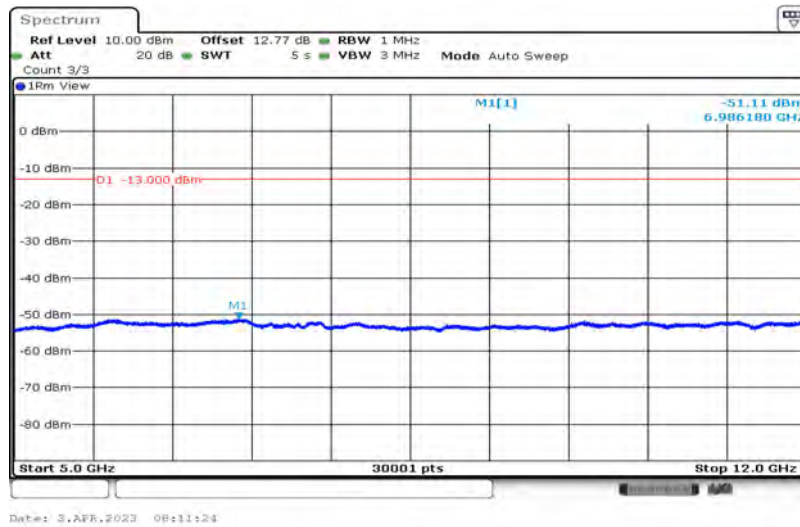
Band66-3MHz-QPSK-131987-1-0-Low-30-1000--32.22-PASS



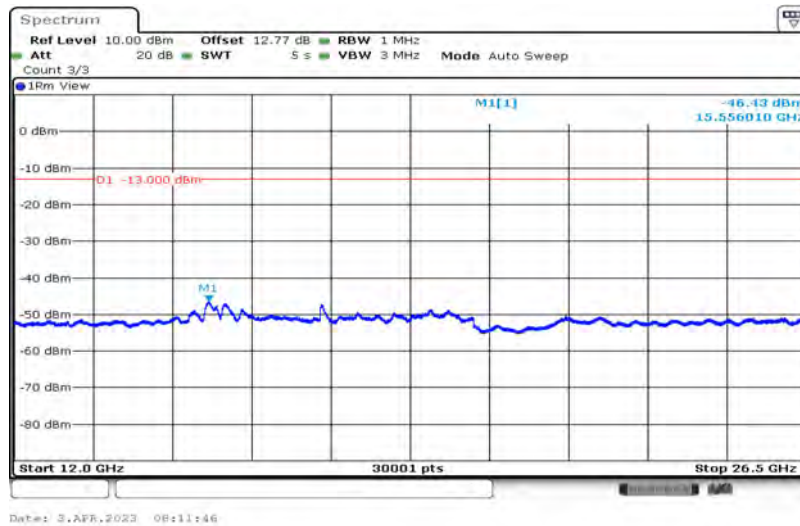
Band66-3MHz-QPSK-131987-1-0-Low-1000-5000--37.3-PASS



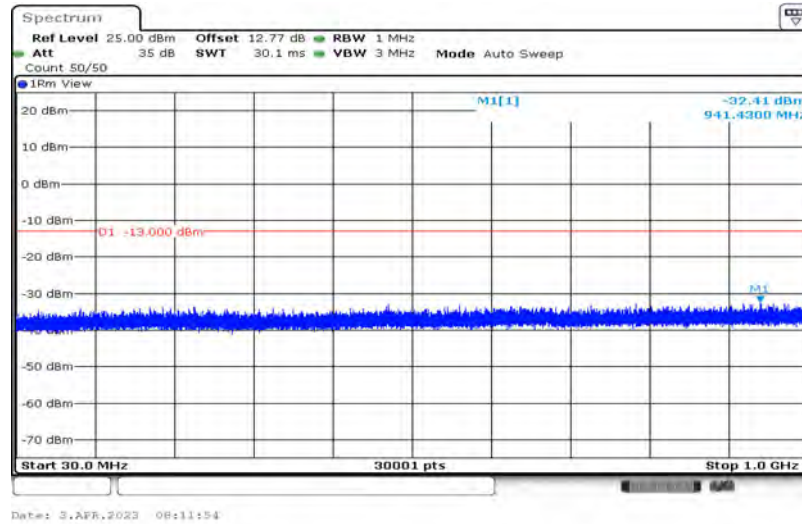
Band66-3MHz-QPSK-131987-1-0-Low-5000-12000--51.11-PASS



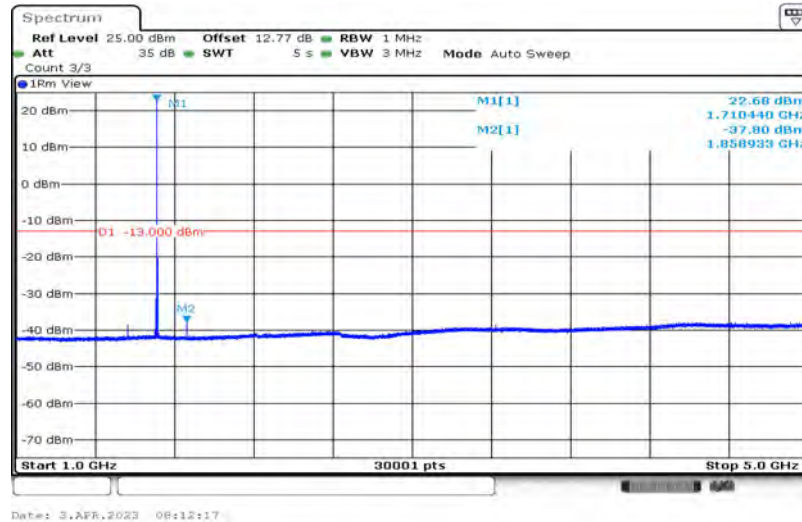
Band66-3MHz-QPSK-131987-1-0-Low-12000-26500--46.43-PASS



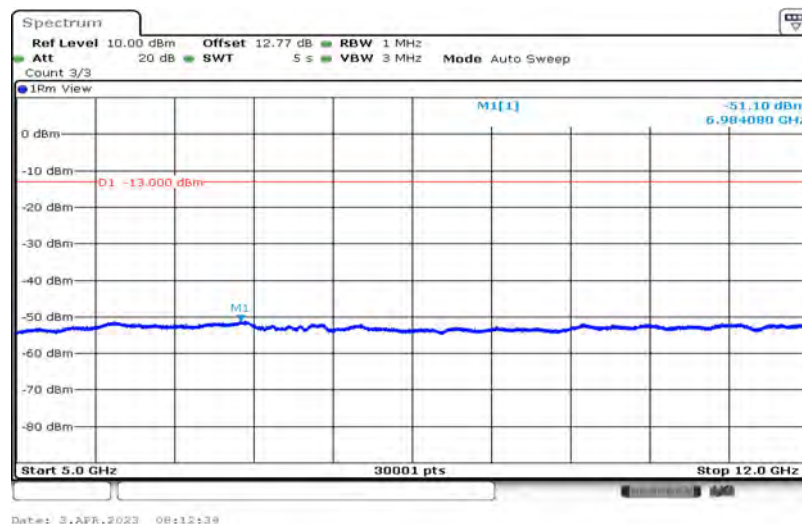
Band66-3MHz-16QAM-131987-1-0-Low-30-1000--32.41-PASS



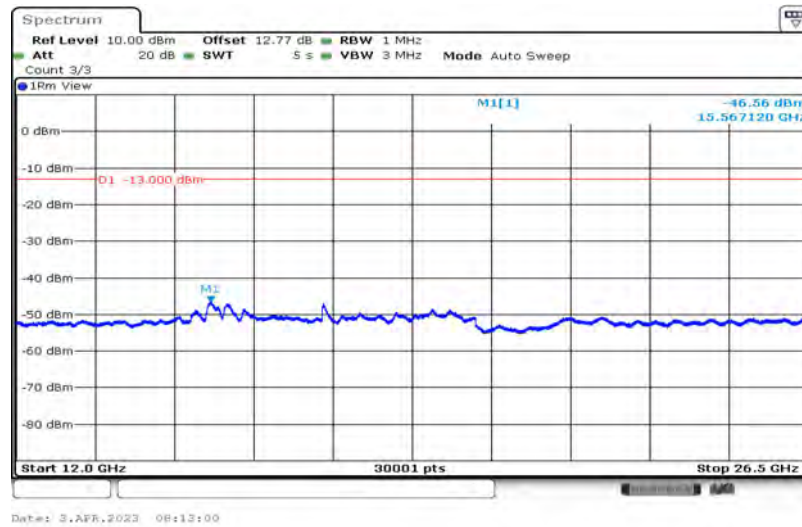
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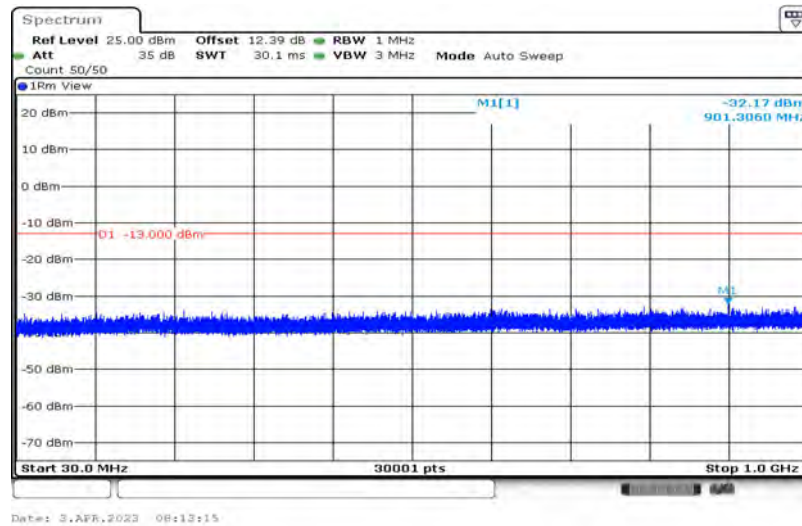
Band66-3MHz-16QAM-131987-1-0-Low-5000-12000--51.1-PASS



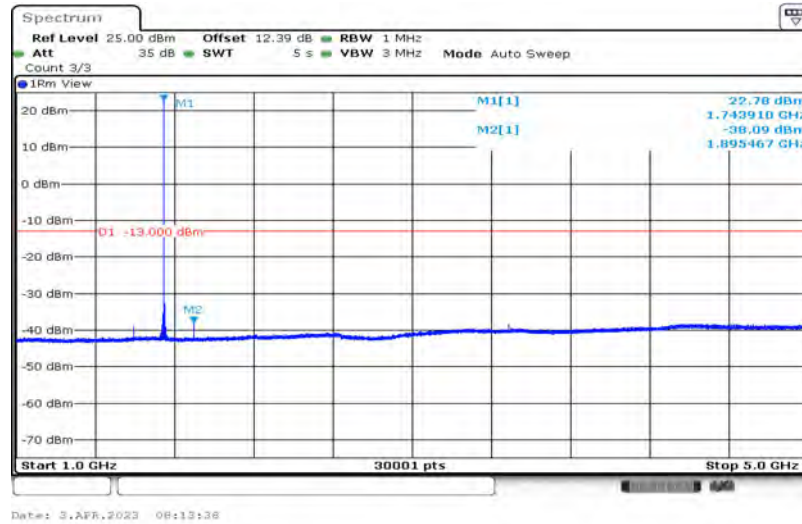
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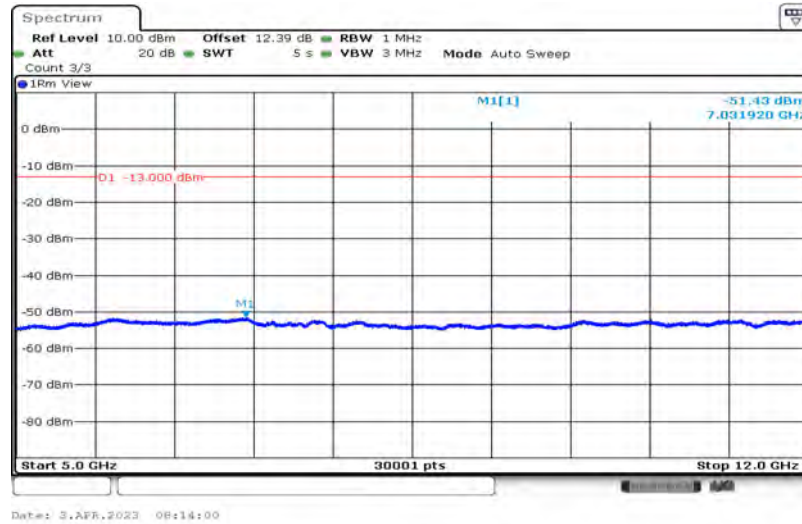
Band66-3MHz-QPSK-132322-1-0-Low-30-1000--32.17-PASS



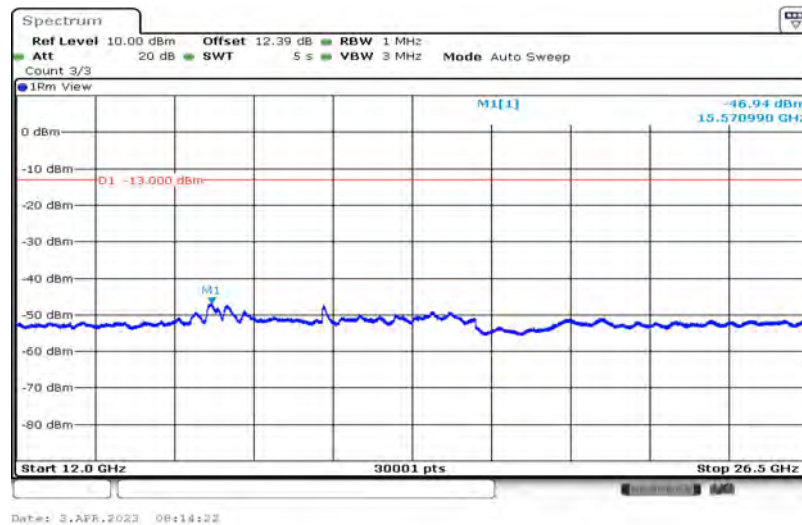
Band66-3MHz-QPSK-132322-1-0-Low-1000-5000--38.09-PASS



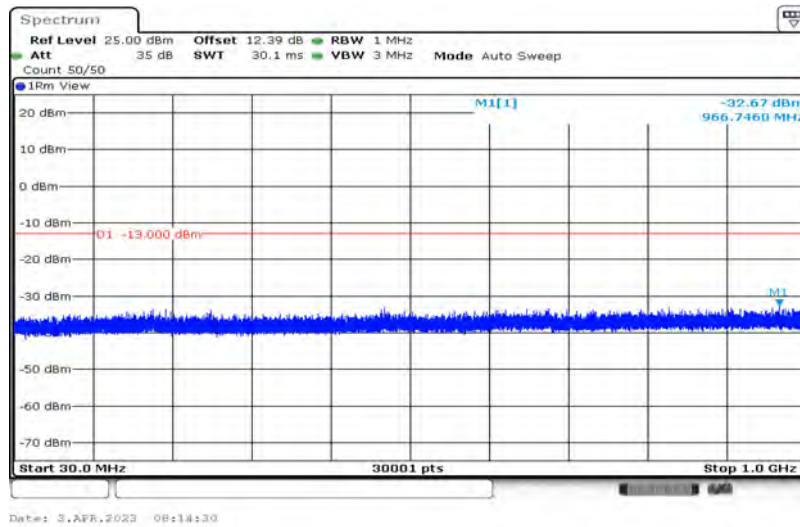
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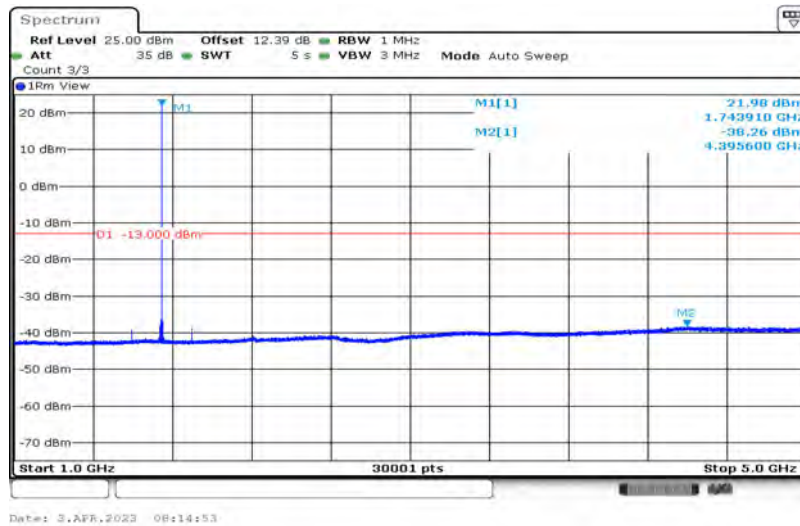
Band66-3MHz-QPSK-132322-1-0-Low-12000-26500--46.94-PASS



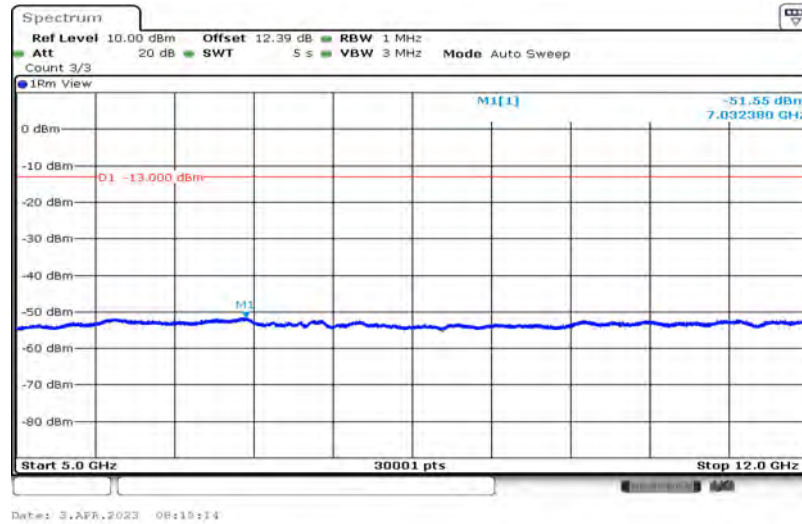
Band66-3MHz-16QAM-132322-1-0-Low-30-1000--32.67-PASS



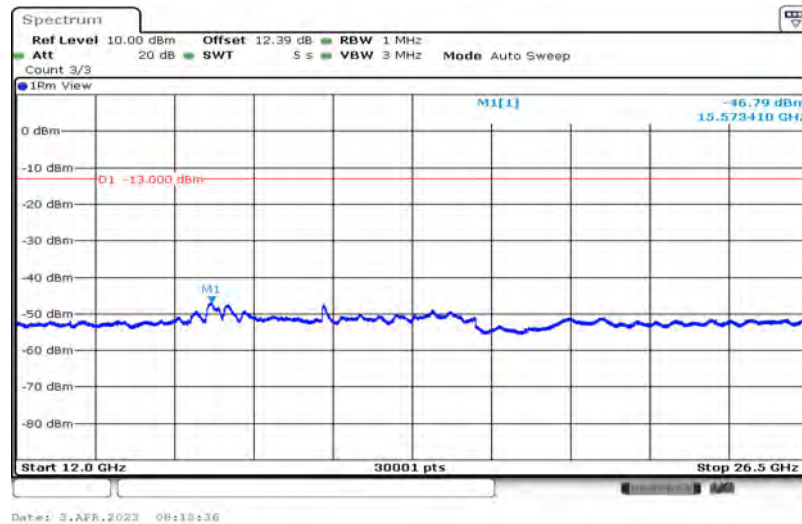
Band66-3MHz-16QAM-132322-1-0-Low-1000-5000--38.26-PASS



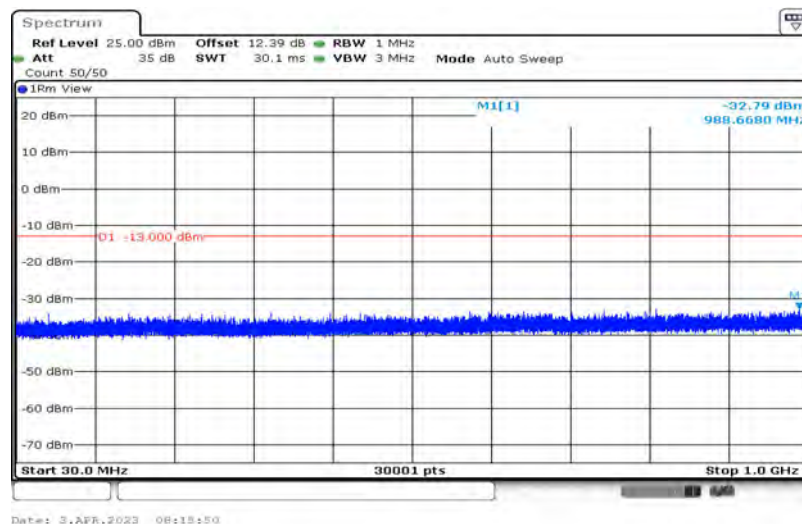
Band66-3MHz-16QAM-132322-1-0-Low-5000-12000--51.55-PASS



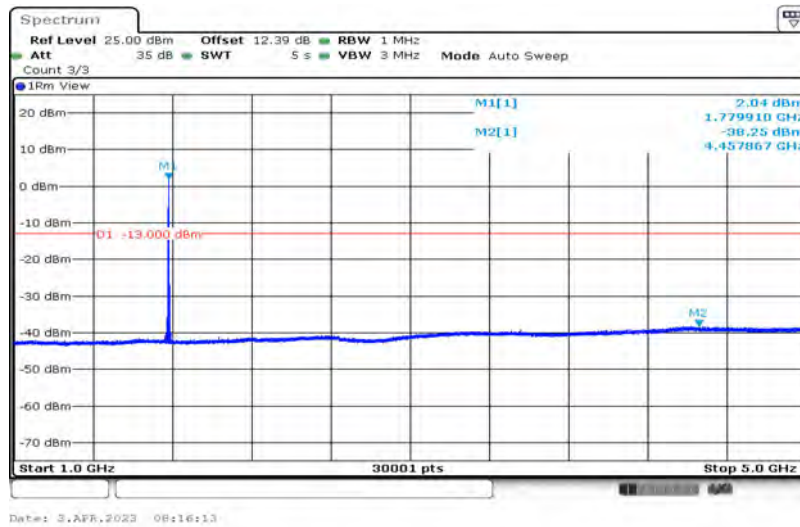
Band66-3MHz-16QAM-132322-1-0-Low-12000-26500--46.79-PASS



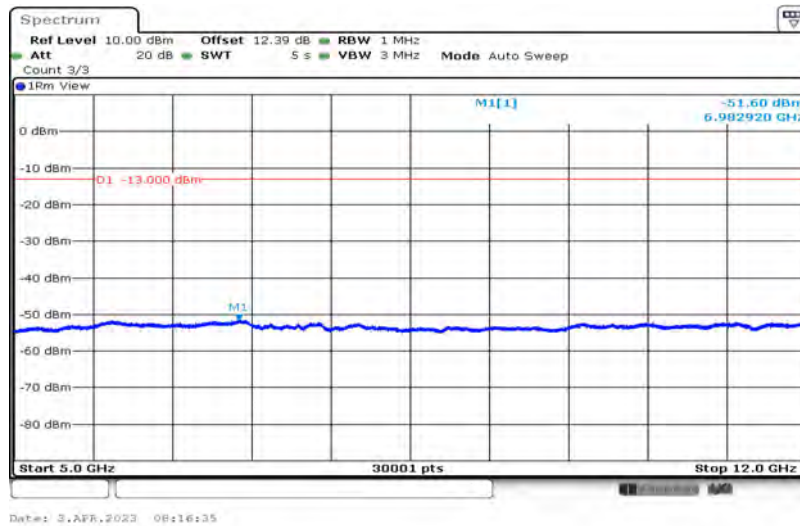
Band66-3MHz-QPSK-132657-1-0-High-30-1000--32.79-PASS



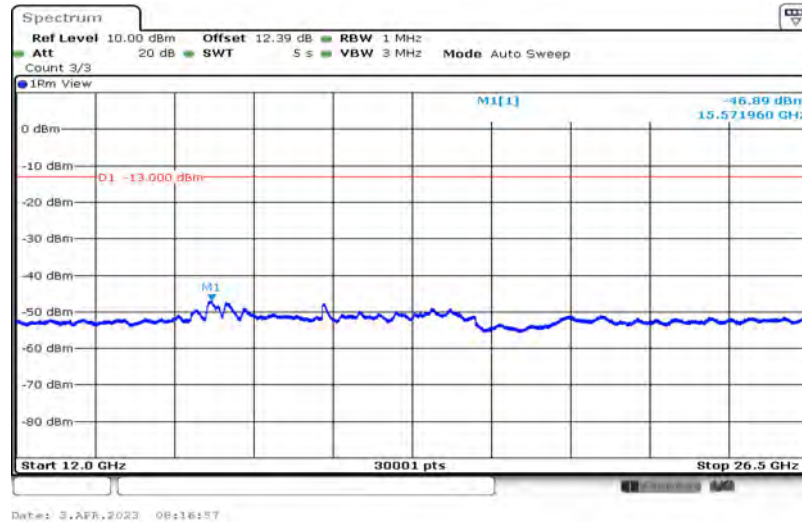
Band66-3MHz-QPSK-132657-1-0-High-1000-5000--38.25-PASS



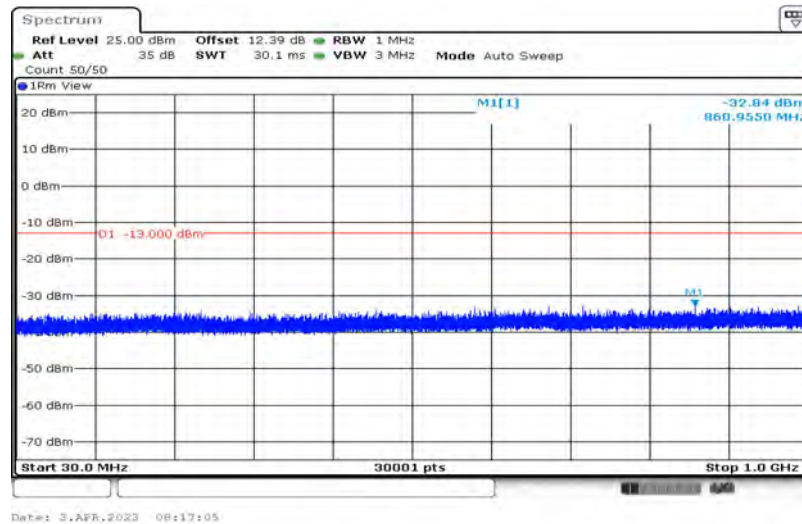
Band66-3MHz-QPSK-132657-1-0-High-5000-12000--51.6-PASS



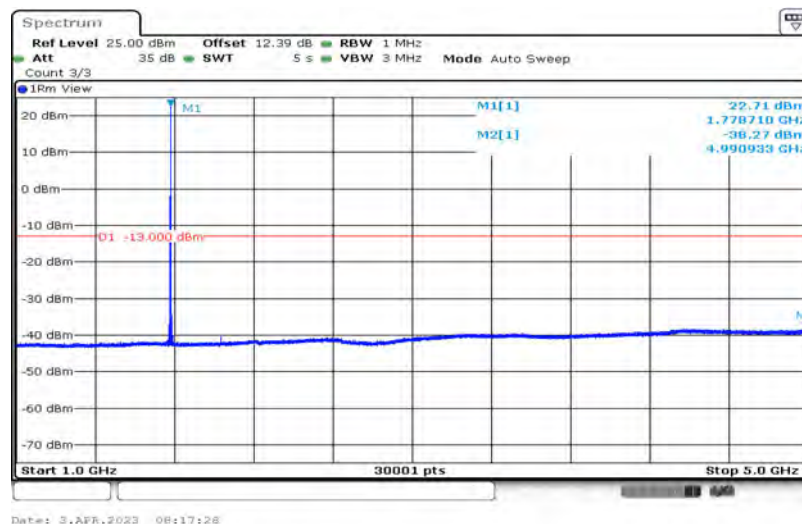
Band66-3MHz-QPSK-132657-1-0-High-12000-26500--46.89-PASS



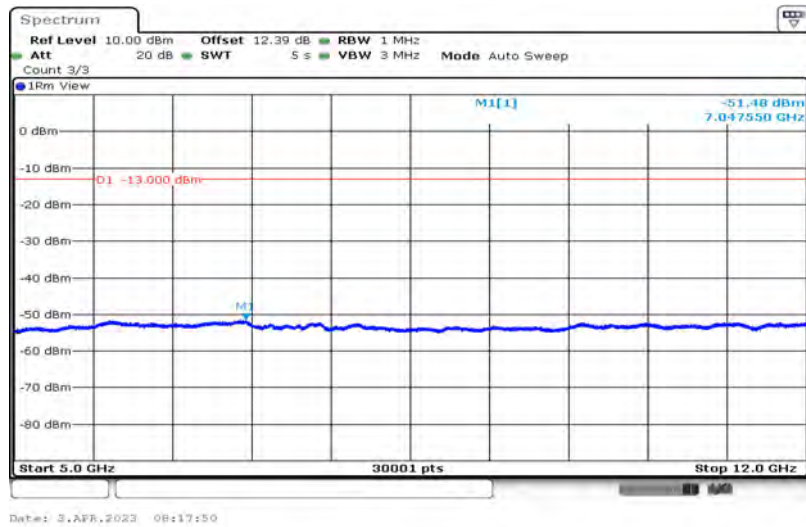
Band66-3MHz-16QAM-132657-1-0-High-30-1000--32.84-PASS



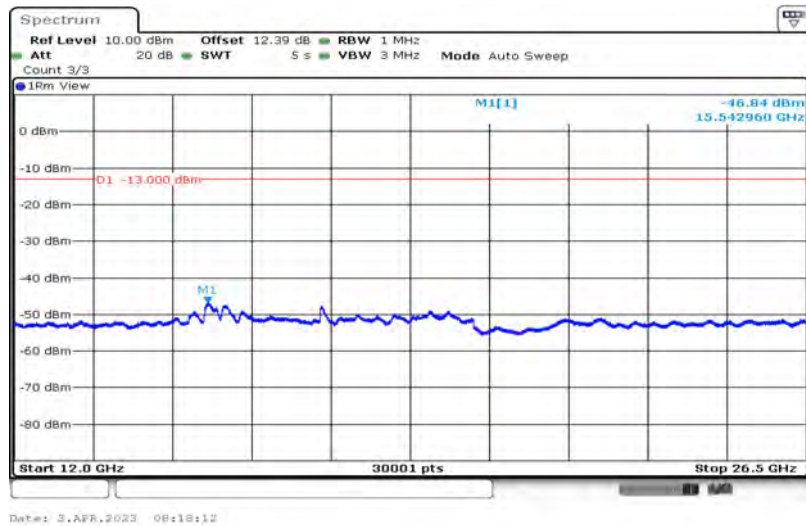
Band66-3MHz-16QAM-132657-1-0-High-1000-5000--38.27-PASS



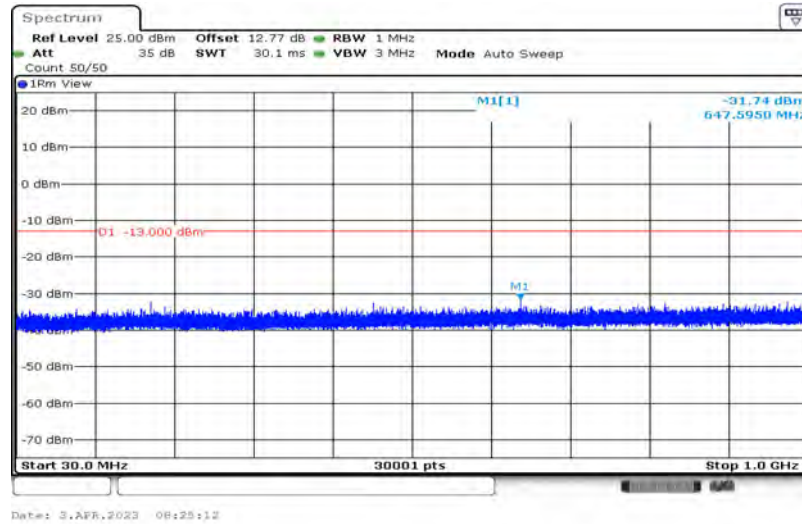
Band66-3MHz-16QAM-132657-1-0-High-5000-12000--51.48-PASS



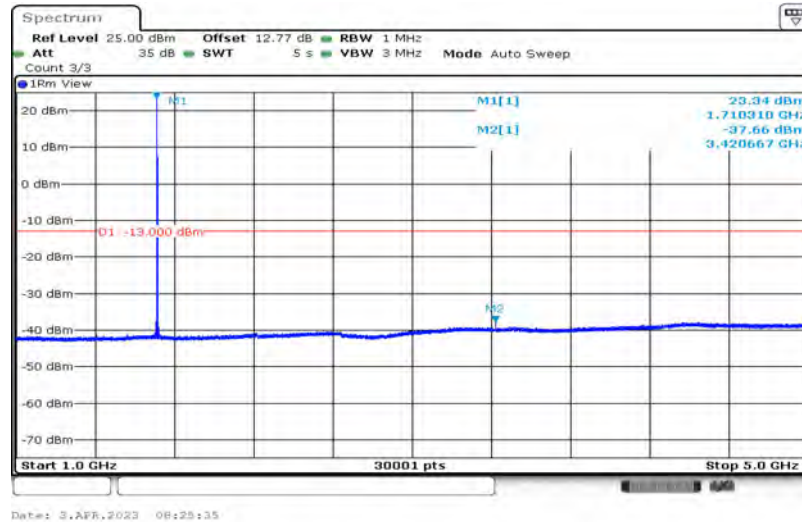
Band66-3MHz-16QAM-132657-1-0-High-12000-26500--46.84-PASS



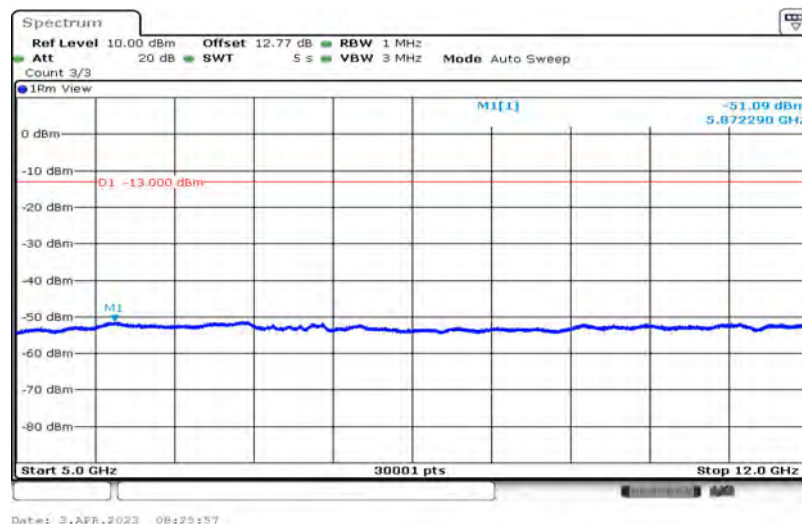
Band66-5MHz-QPSK-131997-1-0-Low-30-1000--31.74-PASS



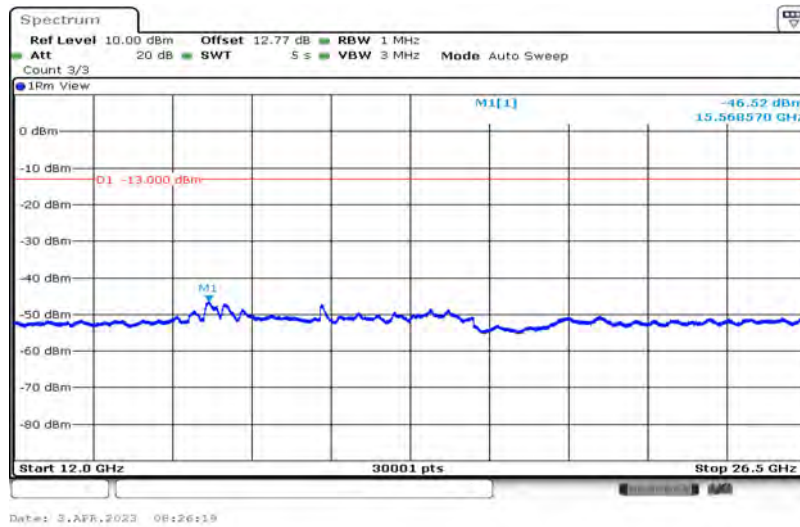
Band66-5MHz-QPSK-131997-1-0-Low-1000-5000--37.66-PASS



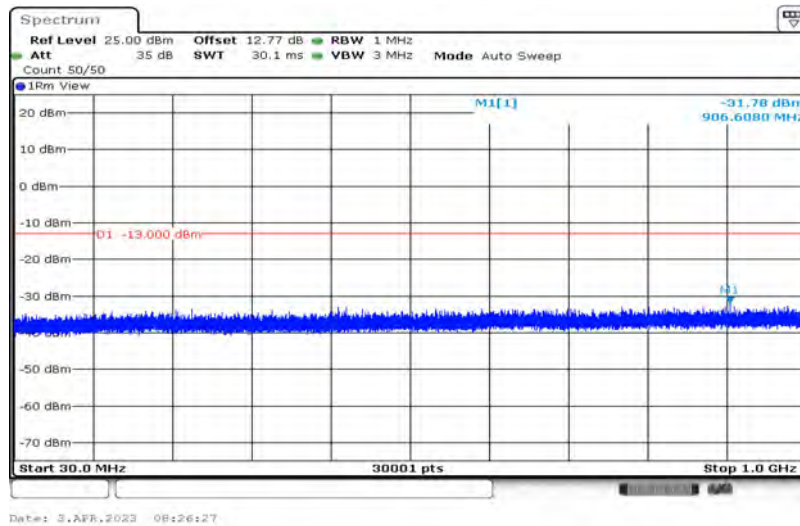
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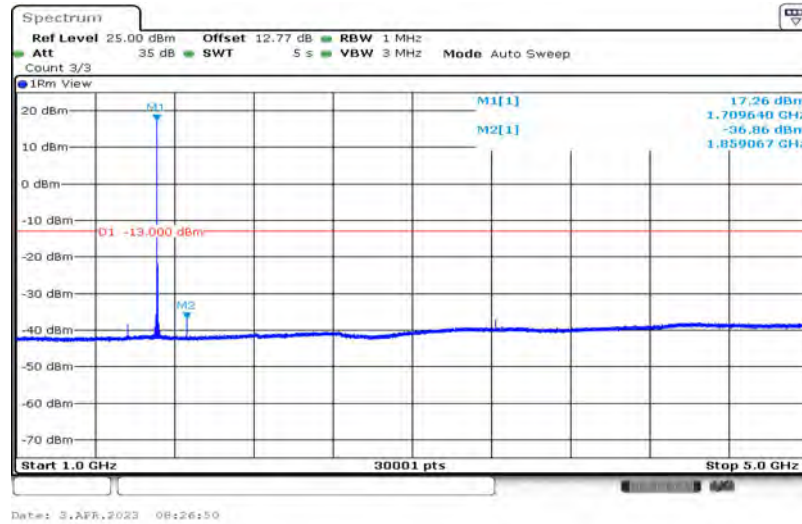
Band66-5MHz-QPSK-131997-1-0-Low-12000-26500--46.52-PASS



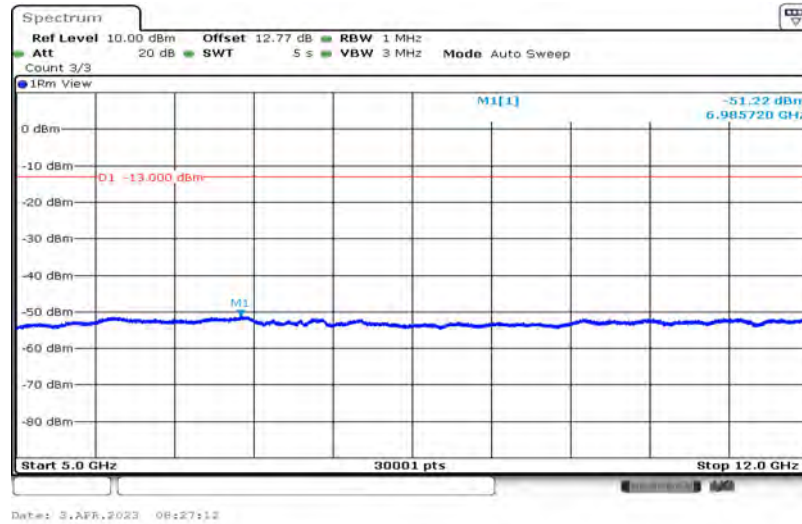
Band66-5MHz-16QAM-131997-1-0-Low-30-1000--31.78-PASS



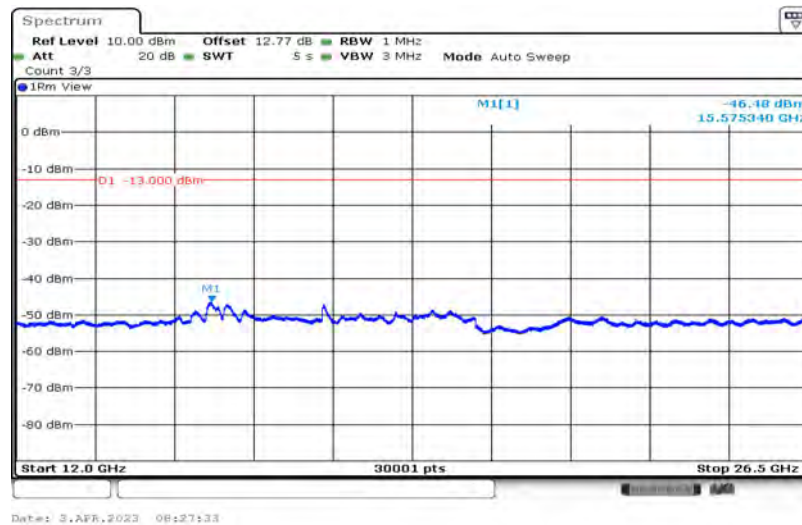
Band66-5MHz-16QAM-131997-1-0-Low-1000-5000--36.86-PASS



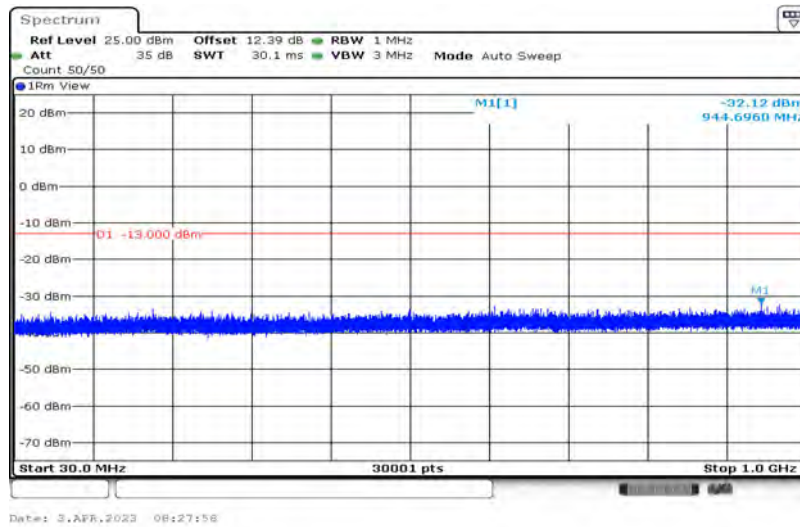
Band66-5MHz-16QAM-131997-1-0-Low-5000-12000--51.22-PASS



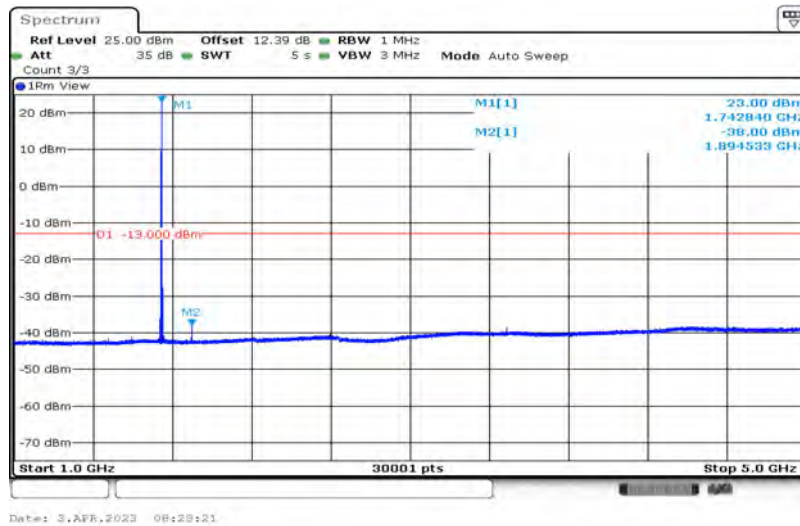
Band66-5MHz-16QAM-131997-1-0-Low-12000-26500--46.48-PASS



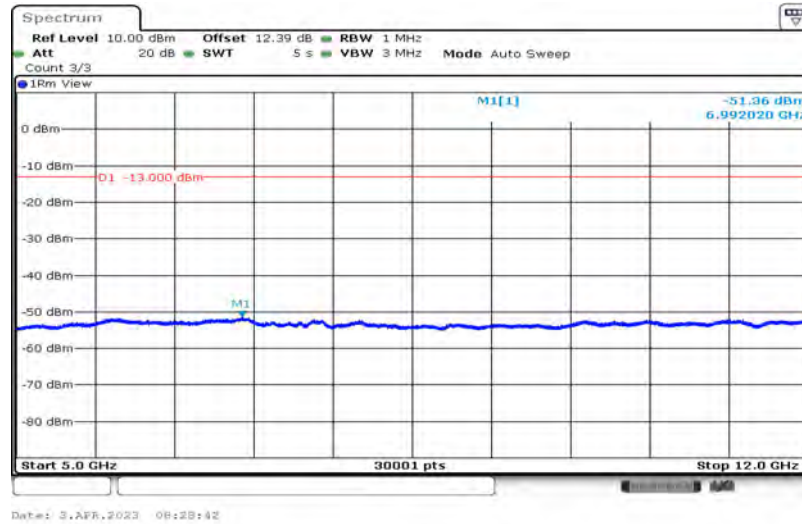
Band66-5MHz-QPSK-132322-1-0-Low-30-1000--32.12-PASS



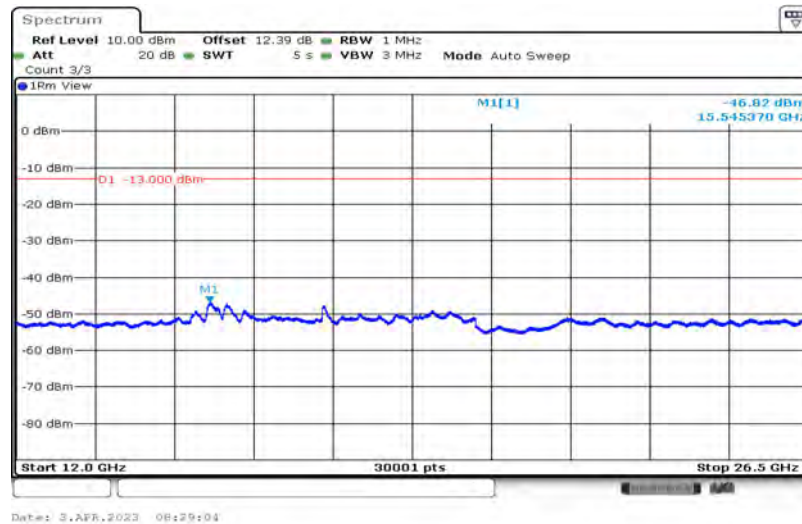
Band66-5MHz-QPSK-132322-1-0-Low-1000-5000--38-PASS



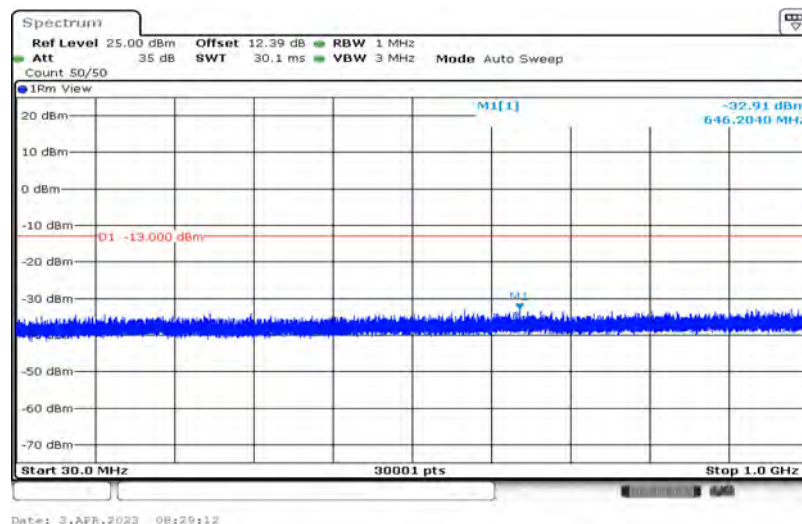
Band66-5MHz-QPSK-132322-1-0-Low-5000-12000--51.36-PASS



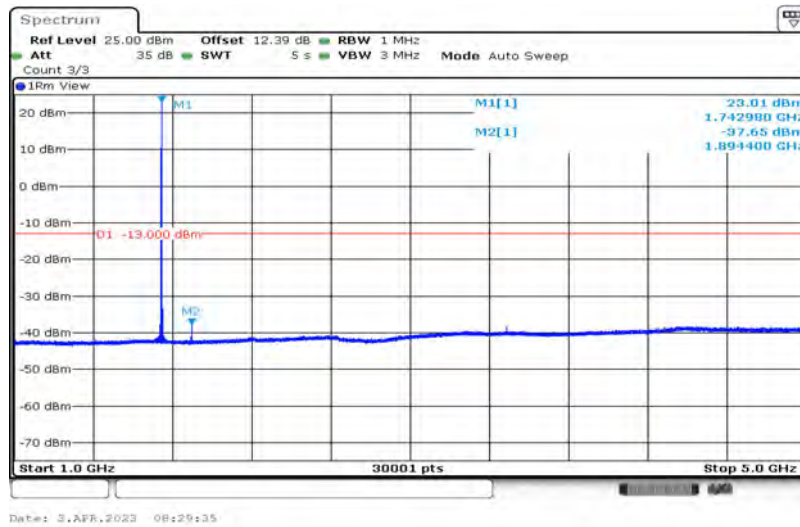
Band66-5MHz-QPSK-132322-1-0-Low-12000-26500--46.82-PASS



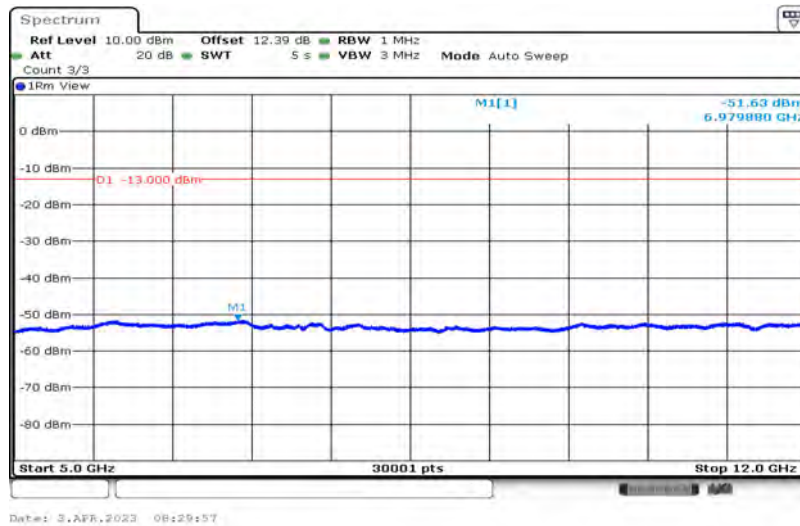
Band66-5MHz-16QAM-132322-1-0-Low-30-1000--32.91-PASS



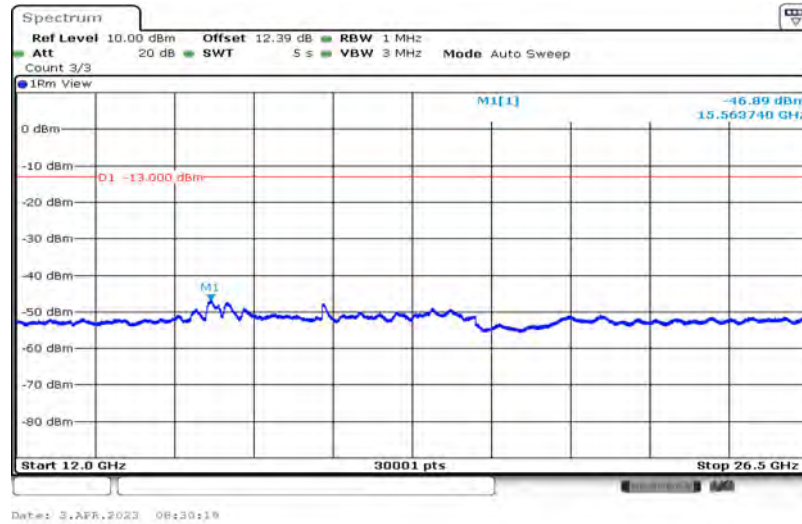
Band66-5MHz-16QAM-132322-1-0-Low-1000-5000--37.65-PASS



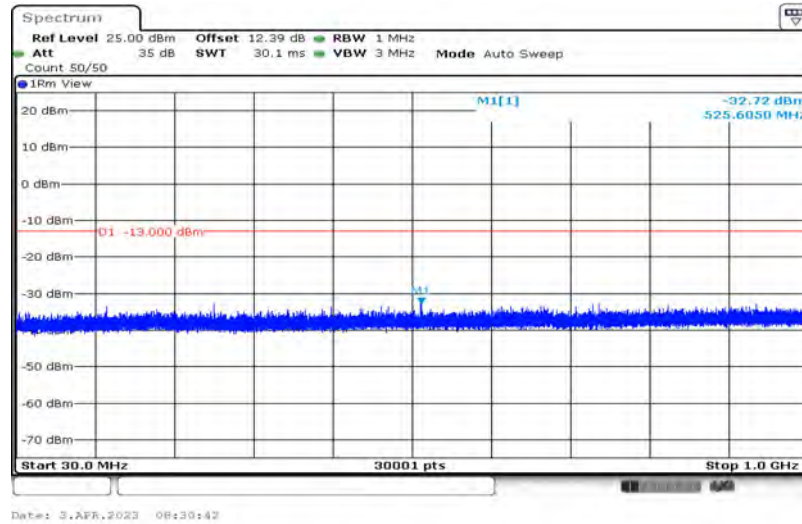
Band66-5MHz-16QAM-132322-1-0-Low-5000-12000--51.63-PASS



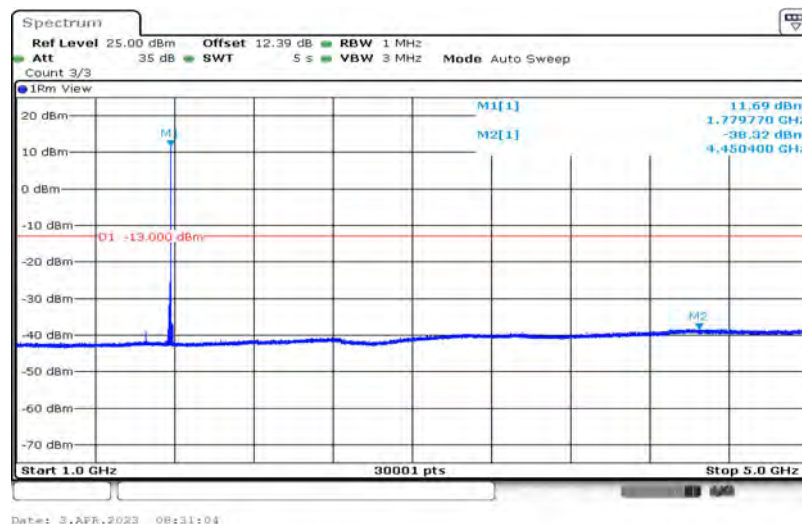
Band66-5MHz-16QAM-132322-1-0-Low-12000-26500--46.89-PASS



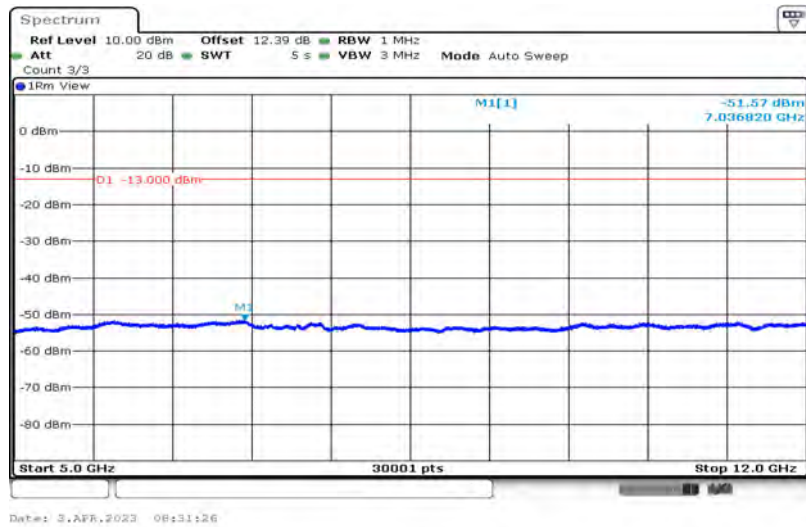
Band66-5MHz-QPSK-132647-1-0-High-30-1000--32.72-PASS



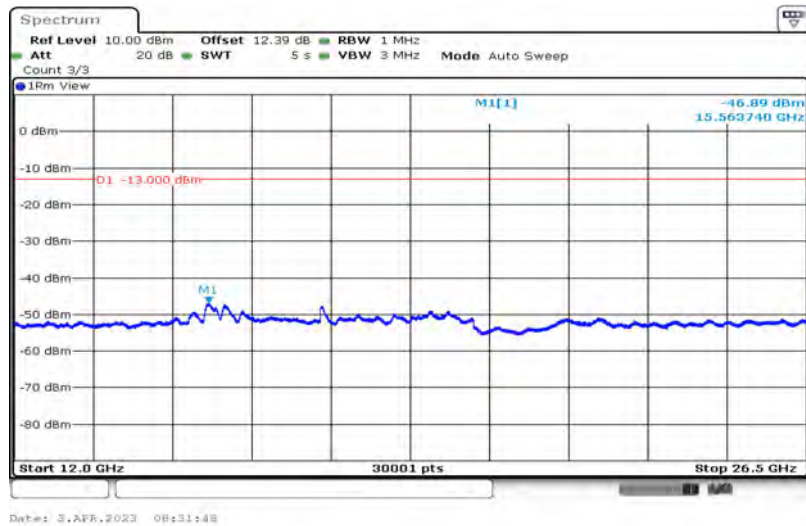
Band66-5MHz-QPSK-132647-1-0-High-1000-5000--38.32-PASS



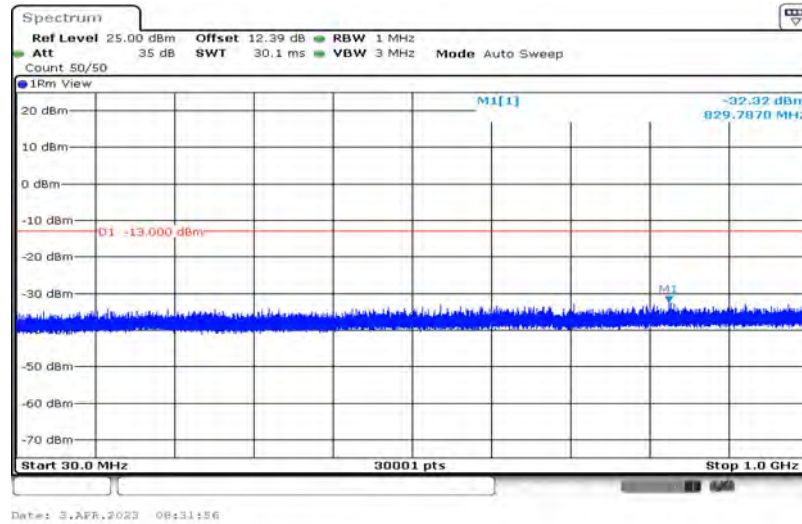
Band66-5MHz-QPSK-132647-1-0-High-5000-12000--51.57-PASS



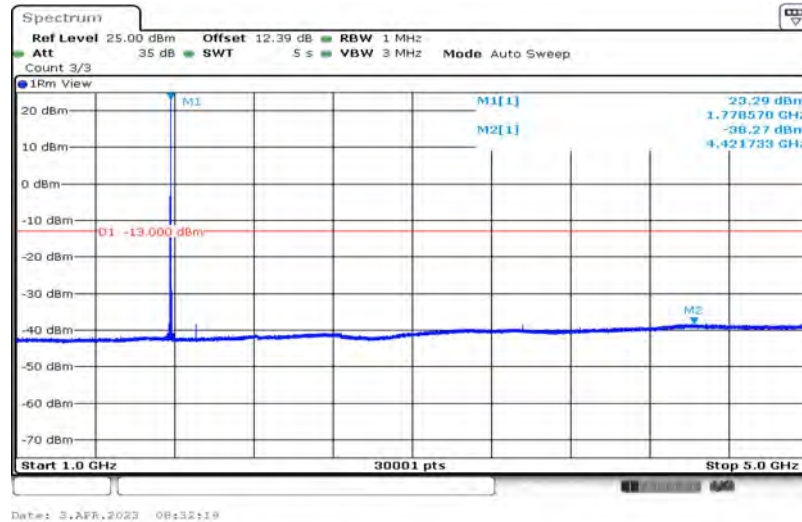
Band66-5MHz-QPSK-132647-1-0-High-12000-26500--46.89-PASS



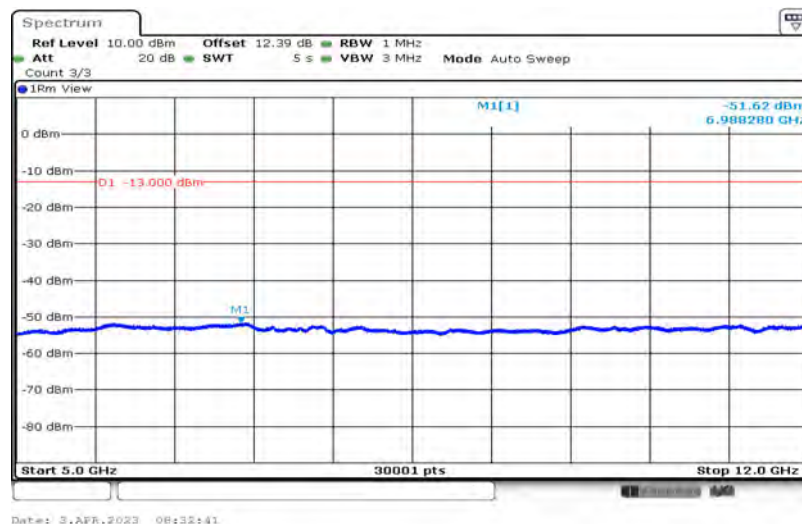
Band66-5MHz-16QAM-132647-1-0-High-30-1000--32.32-PASS



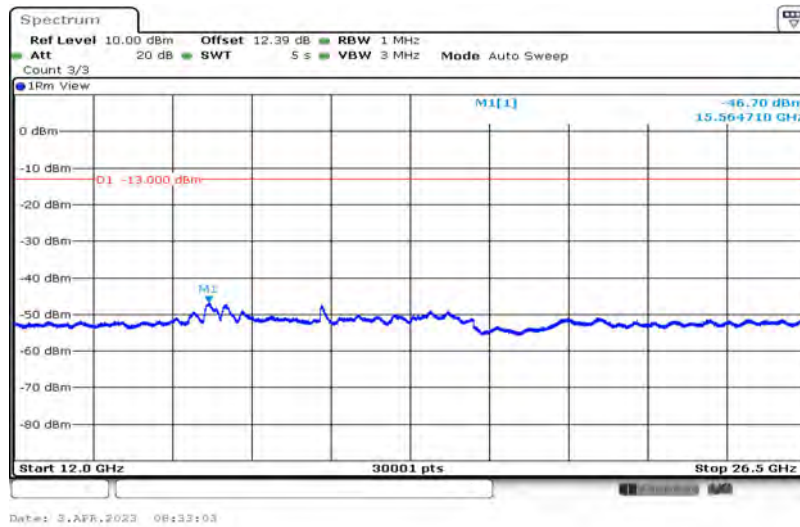
Band66-5MHz-16QAM-132647-1-0-High-1000-5000--38.27-PASS



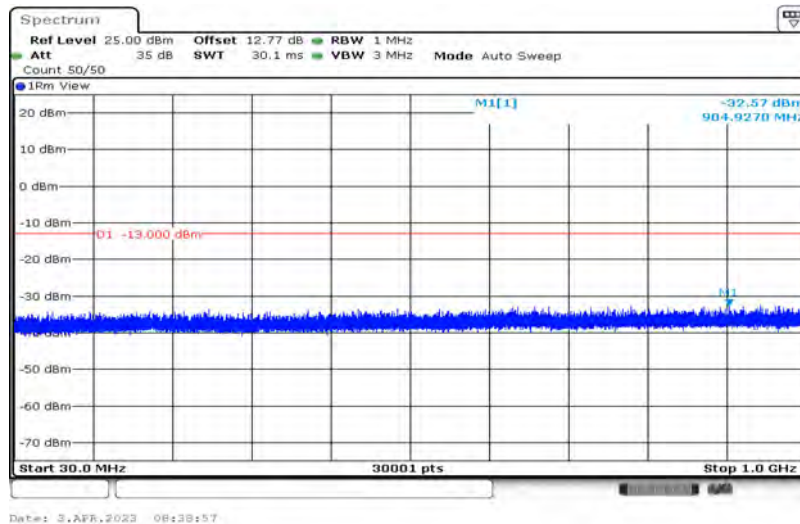
Band66-5MHz-16QAM-132647-1-0-High-5000-12000--51.62-PASS



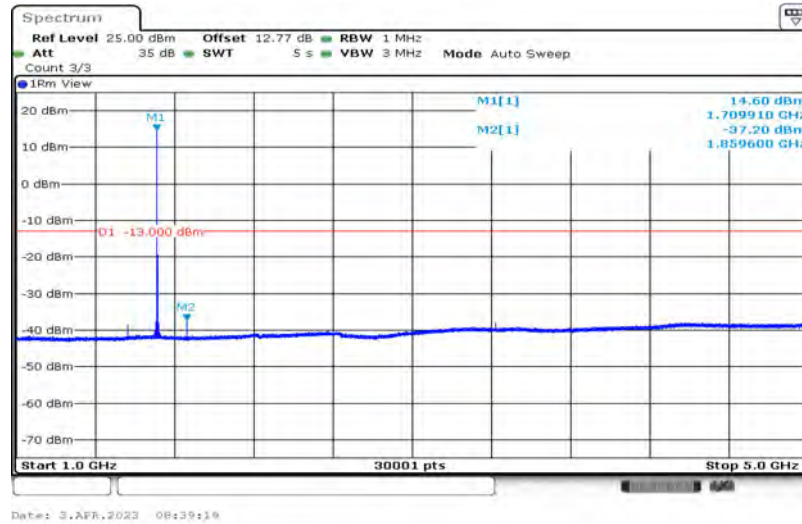
Band66-5MHz-16QAM-132647-1-0-High-12000-26500--46.7-PASS



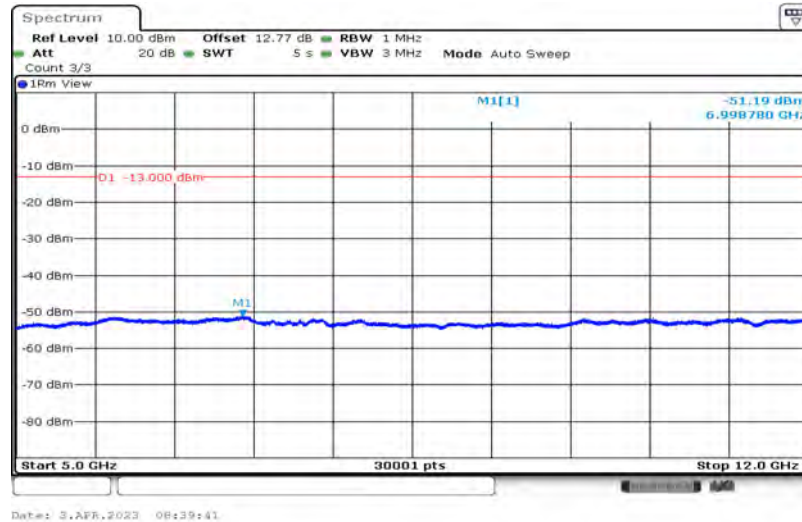
Band66-10MHz-QPSK-132022-1-0-Low-30-1000--32.57-PASS



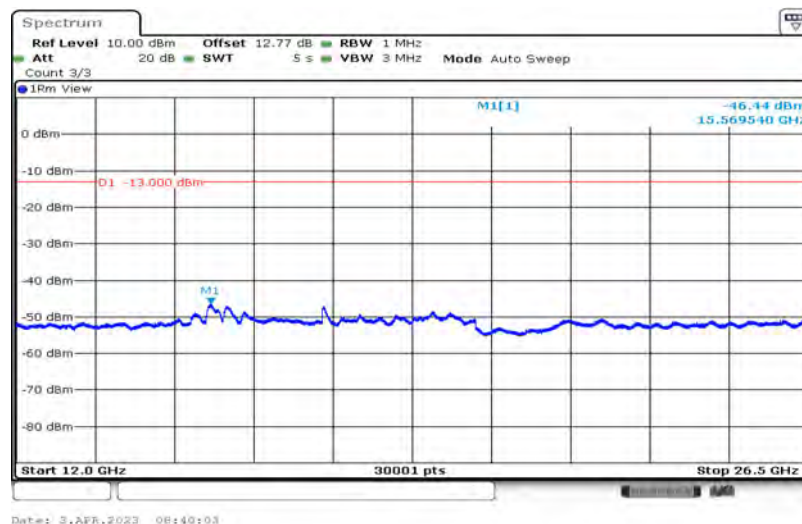
Band66-10MHz-QPSK-132022-1-0-Low-1000-5000--37.2-PASS



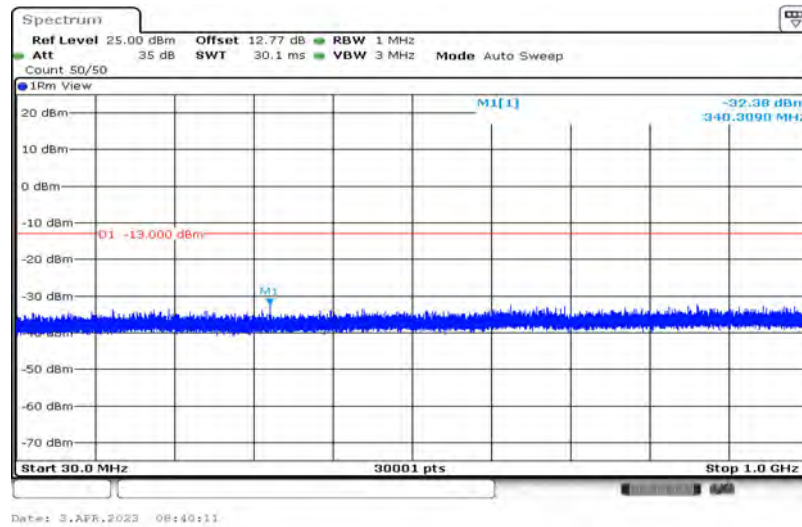
Band66-10MHz-QPSK-132022-1-0-Low-5000-12000--51.19-PASS



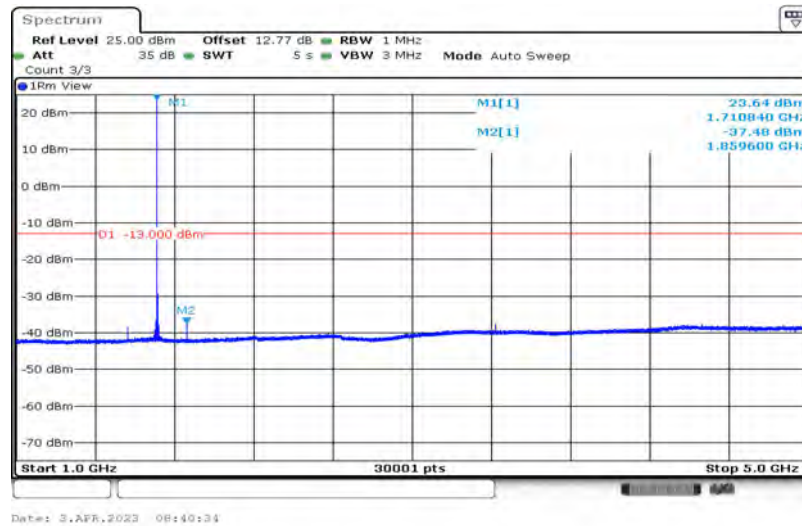
Band66-10MHz-QPSK-132022-1-0-Low-12000-26500--46.44-PASS



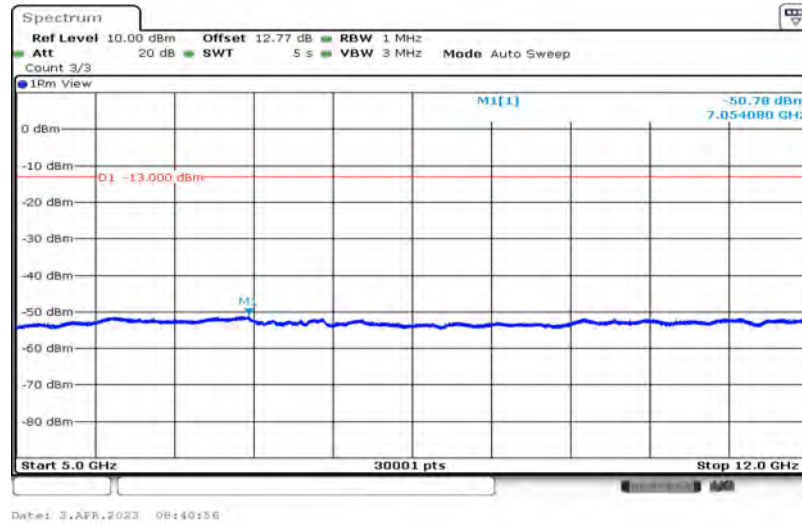
Band66-10MHz-16QAM-132022-1-0-Low-30-1000--32.38-PASS



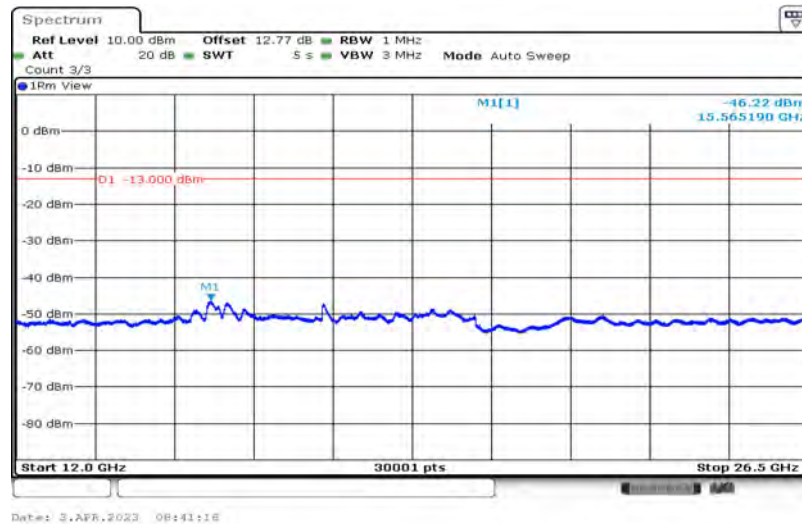
Band66-10MHz-16QAM-132022-1-0-Low-1000-5000--37.48-PASS



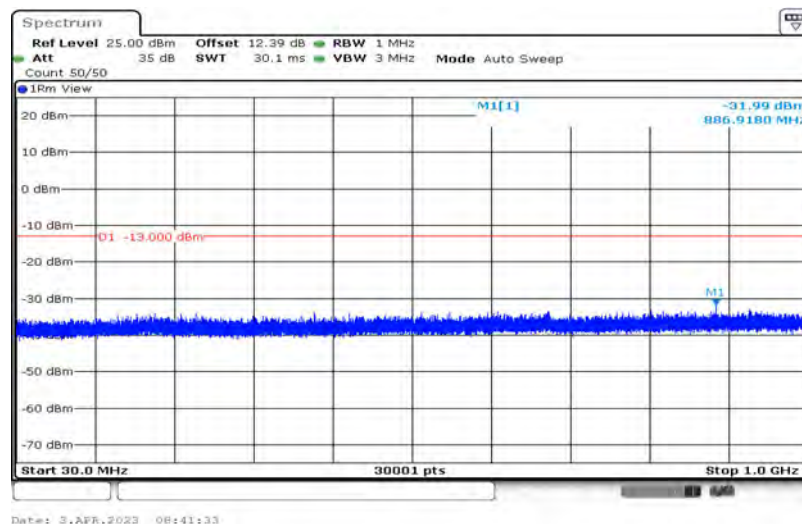
Band66-10MHz-16QAM-132022-1-0-Low-5000-12000--50.78-PASS



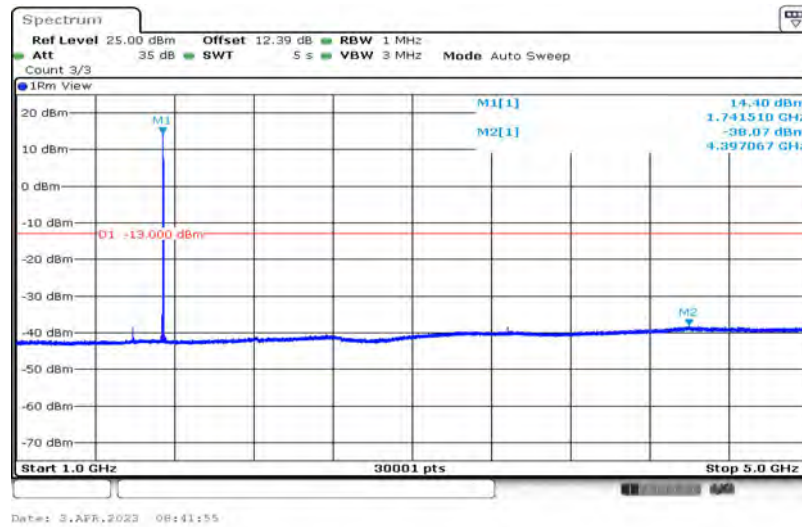
Band66-10MHz-16QAM-132022-1-0-Low-12000-26500--46.22-PASS



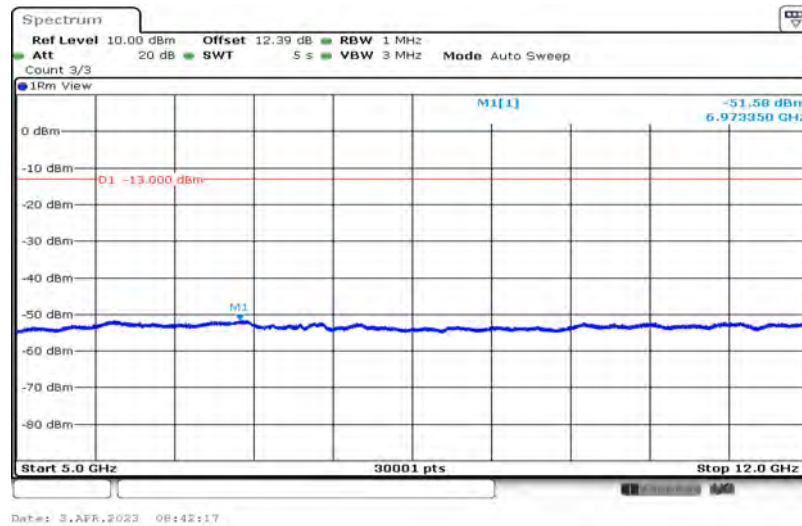
Band66-10MHz-QPSK-132322-1-0-Low-30-1000--31.99-PASS



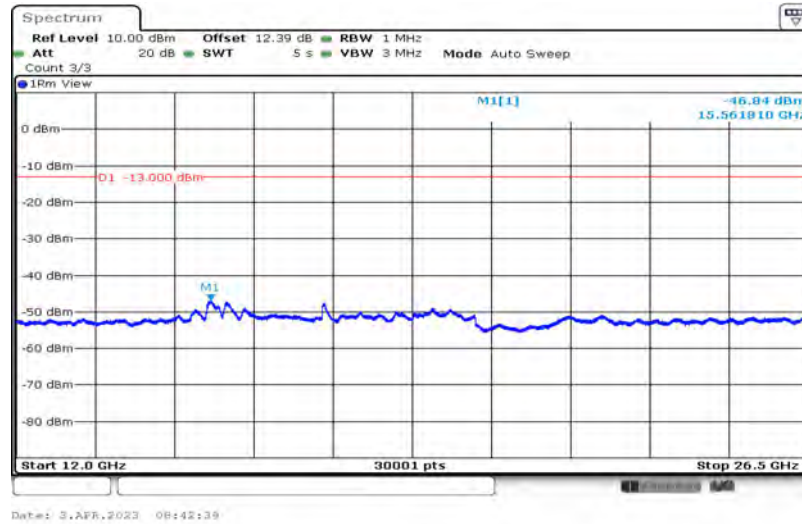
Band66-10MHz-QPSK-132322-1-0-Low-1000-5000--38.07-PASS



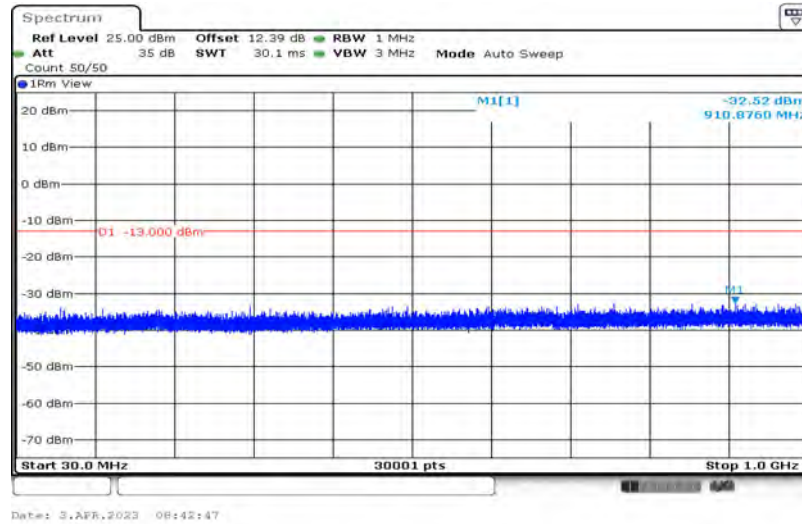
Band66-10MHz-QPSK-132322-1-0-Low-5000-12000--51.58-PASS



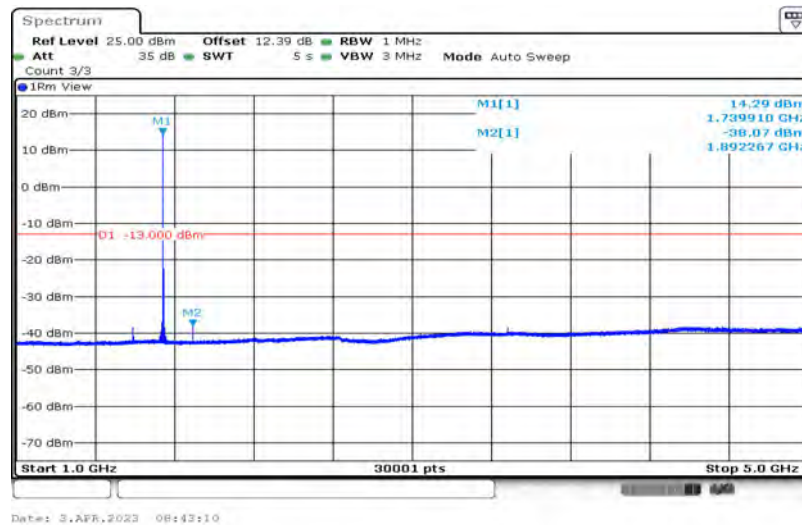
Band66-10MHz-QPSK-132322-1-0-Low-12000-26500--46.84-PASS



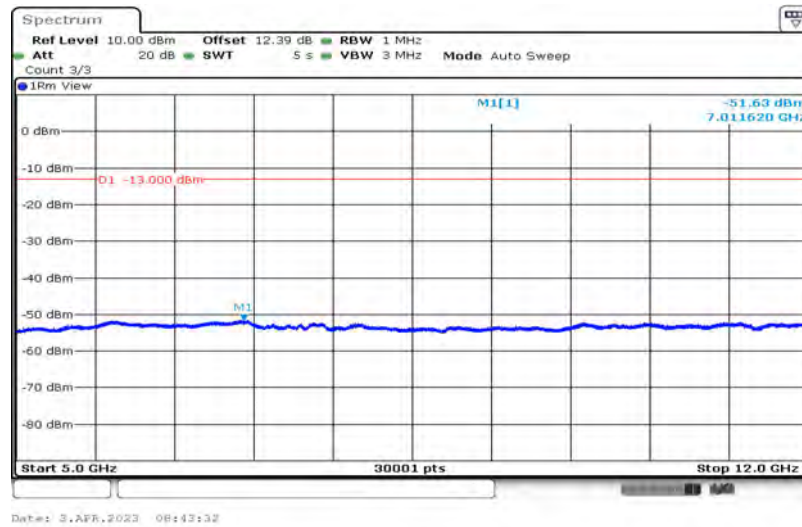
Band66-10MHz-16QAM-132322-1-0-Low-30-1000--32.52-PASS



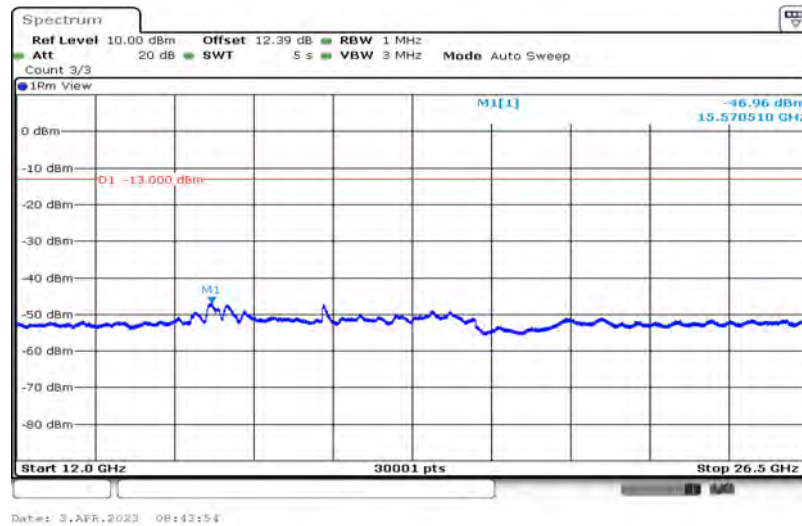
Band66-10MHz-16QAM-132322-1-0-Low-1000-5000--38.07-PASS



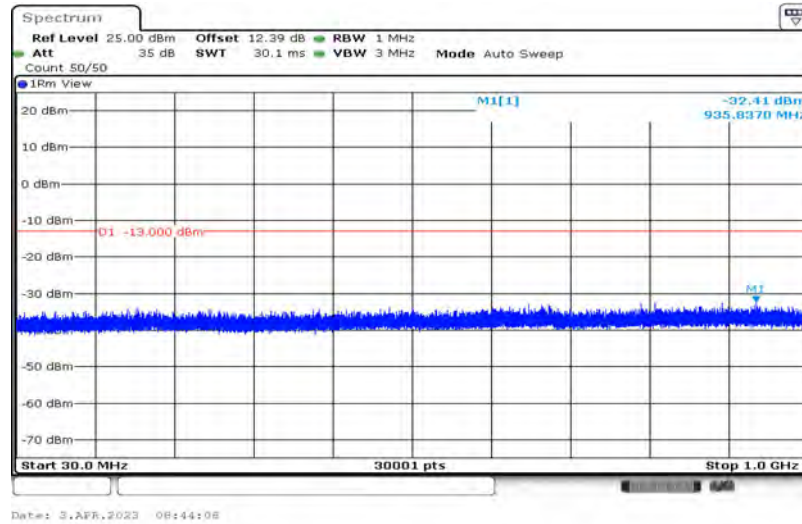
Band66-10MHz-16QAM-132322-1-0-Low-5000-12000--51.63-PASS



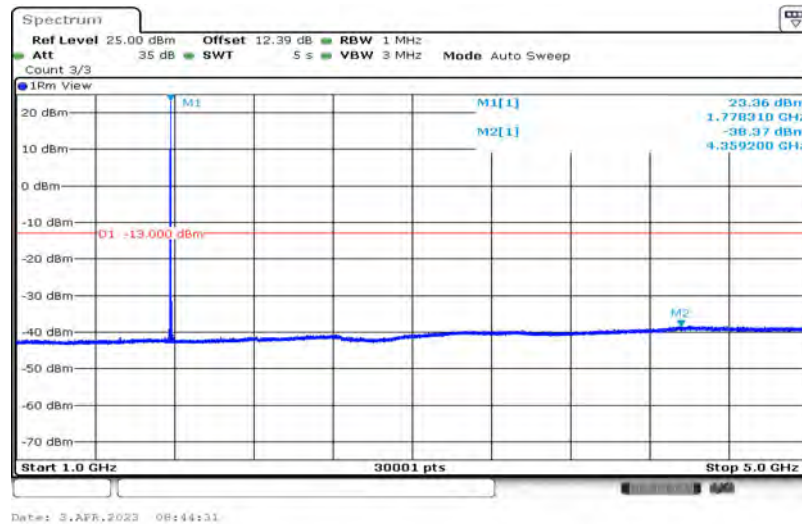
Band66-10MHz-16QAM-132322-1-0-Low-12000-26500--46.96-PASS



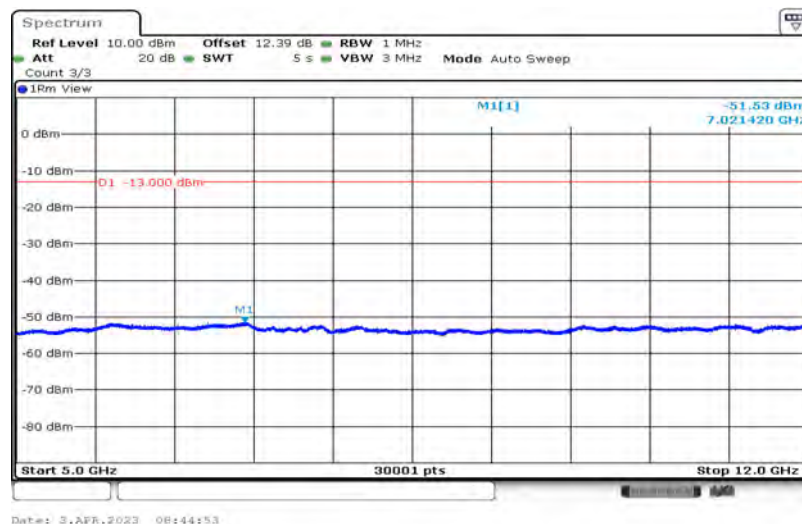
Band66-10MHz-QPSK-132622-1-0-High-30-1000--32.41-PASS



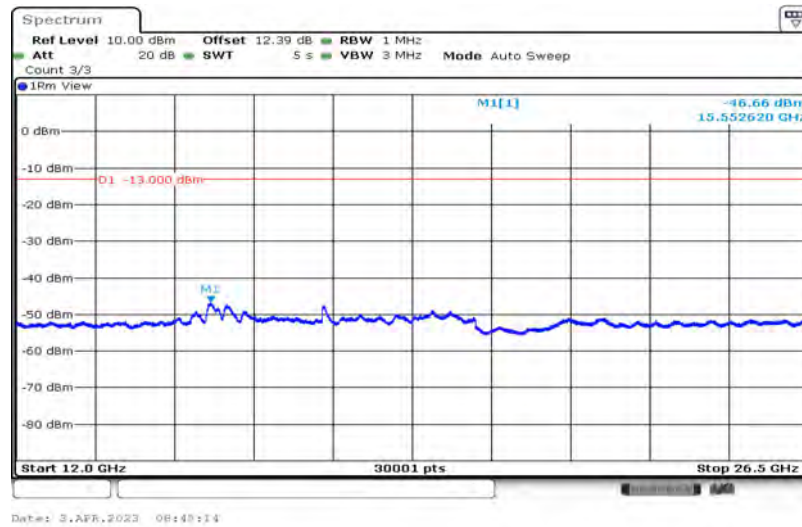
Band66-10MHz-QPSK-132622-1-0-High-1000-5000--38.37-PASS



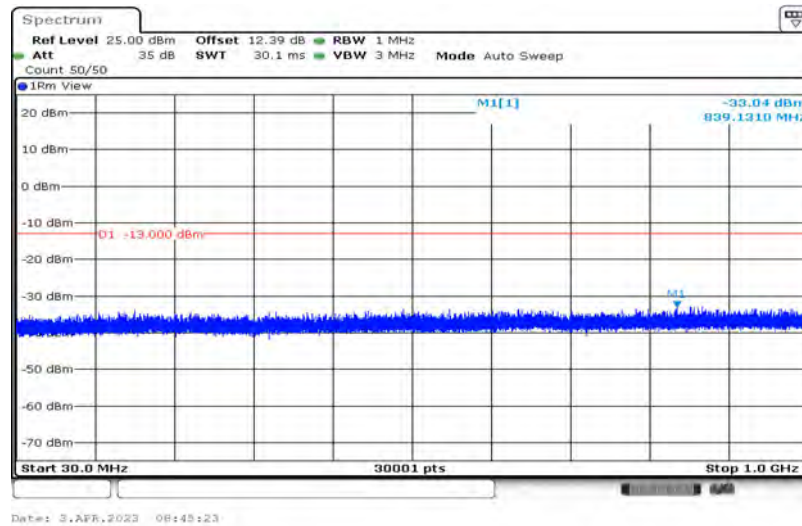
Band66-10MHz-QPSK-132622-1-0-High-5000-12000--51.53-PASS



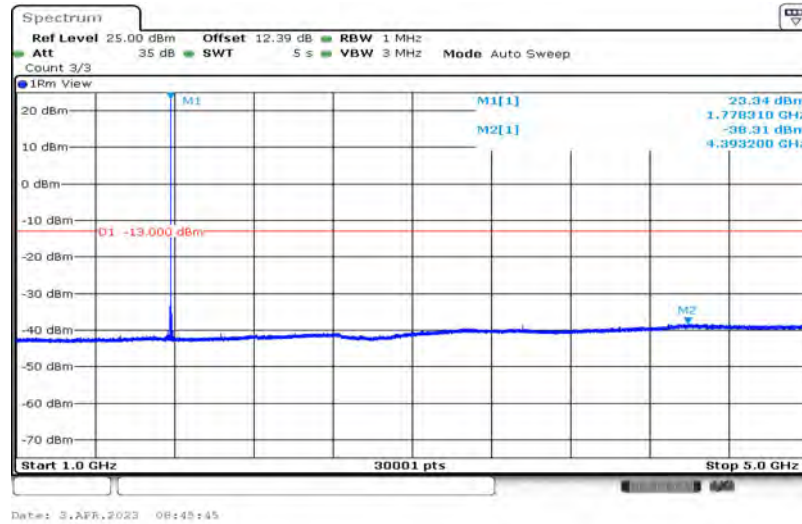
Band66-10MHz-QPSK-132622-1-0-High-12000-26500--46.66-PASS



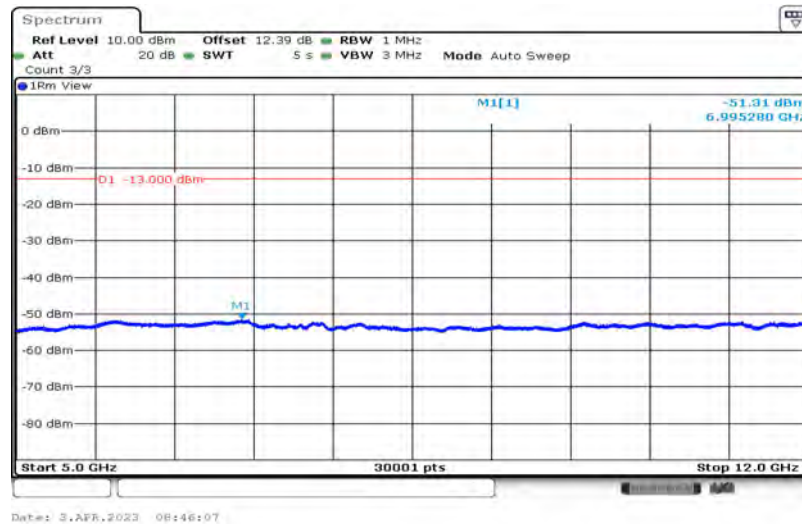
Band66-10MHz-16QAM-132622-1-0-High-30-1000--33.04-PASS



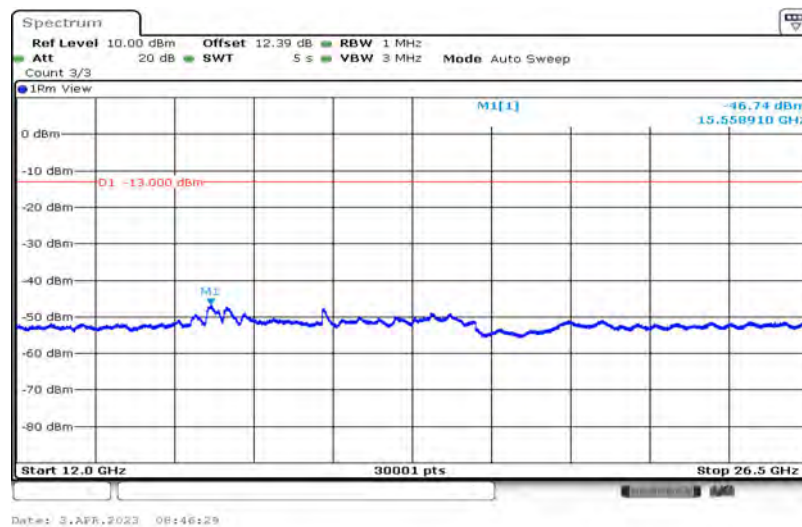
Band66-10MHz-16QAM-132622-1-0-High-1000-5000--38.31-PASS



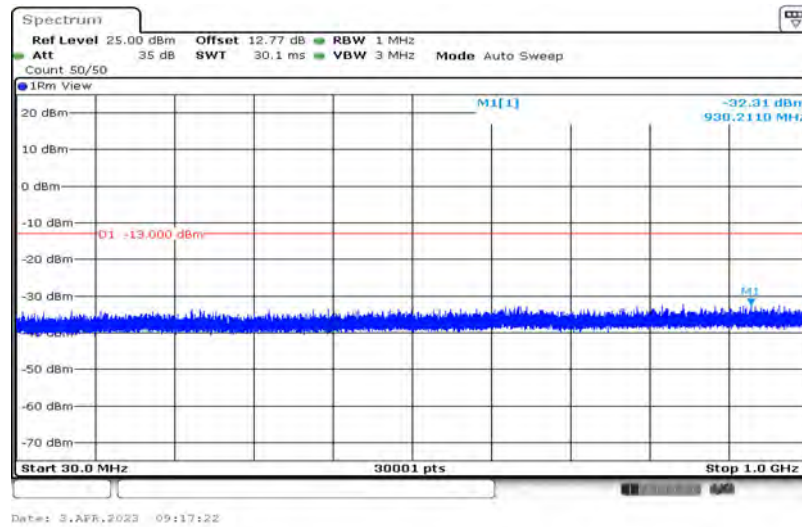
Band66-10MHz-16QAM-132622-1-0-High-5000-12000--51.31-PASS



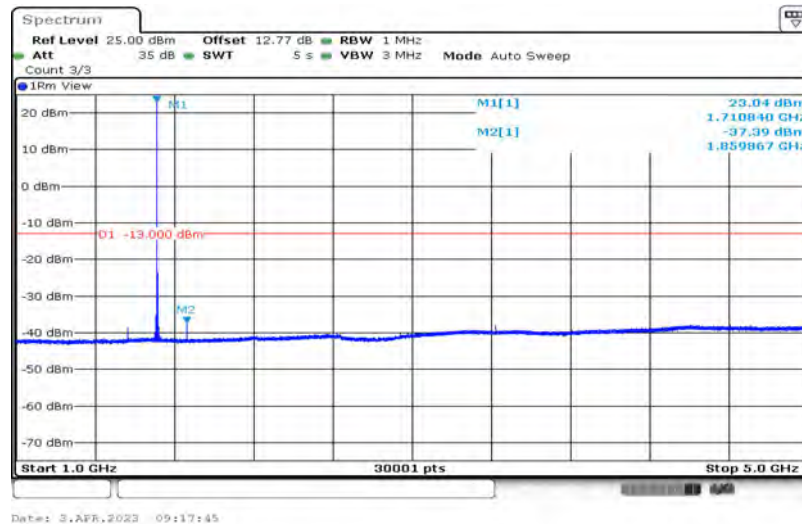
Band66-10MHz-16QAM-132622-1-0-High-12000-26500--46.74-PASS



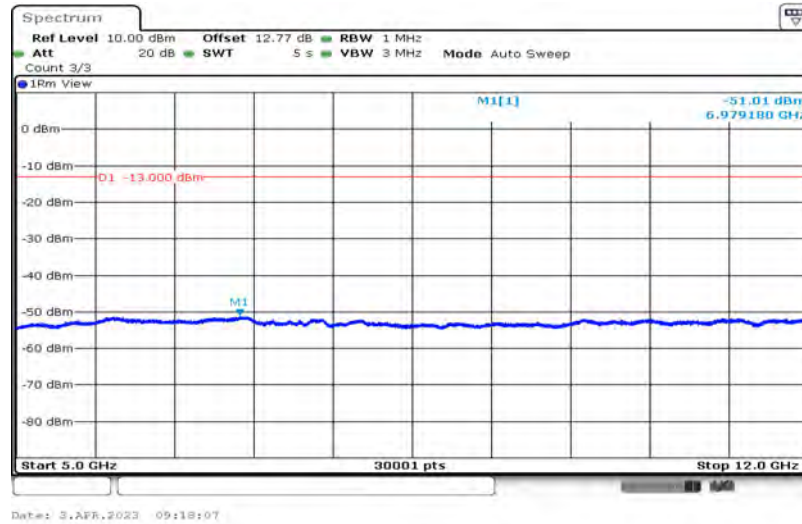
Band66-15MHz-QPSK-132047-1-0-Low-30-1000--32.31-PASS



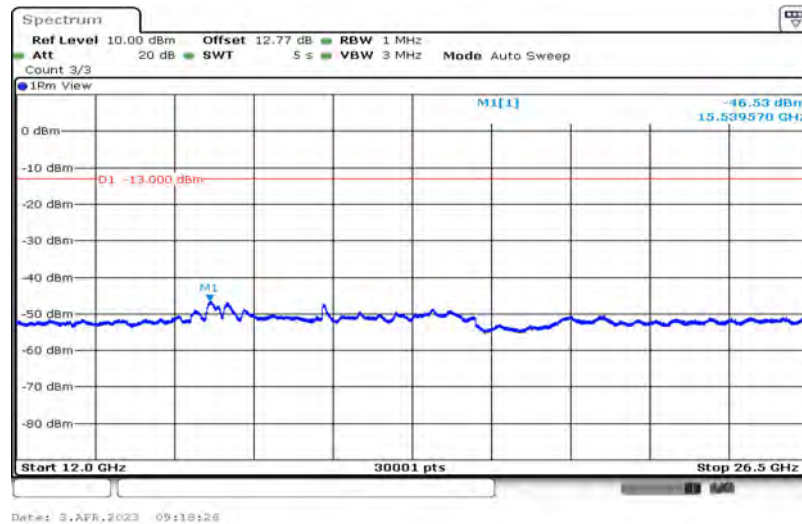
Band66-15MHz-QPSK-132047-1-0-Low-1000-5000--37.39-PASS



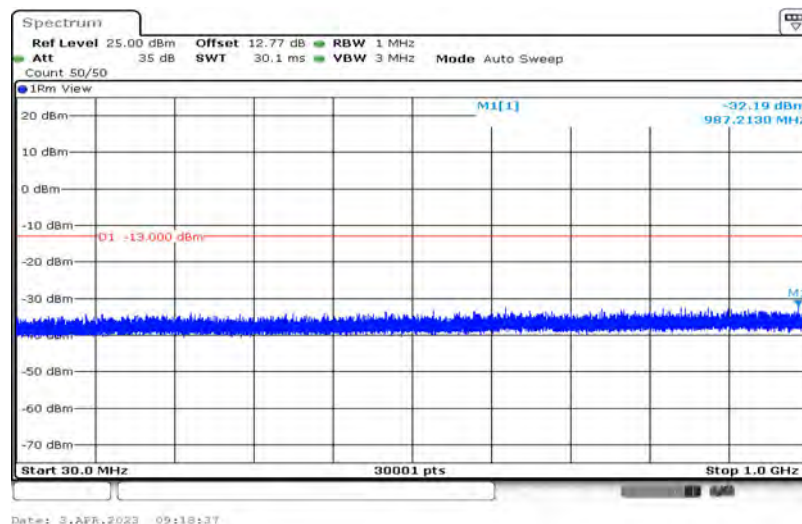
Band66-15MHz-QPSK-132047-1-0-Low-5000-12000--51.01-PASS



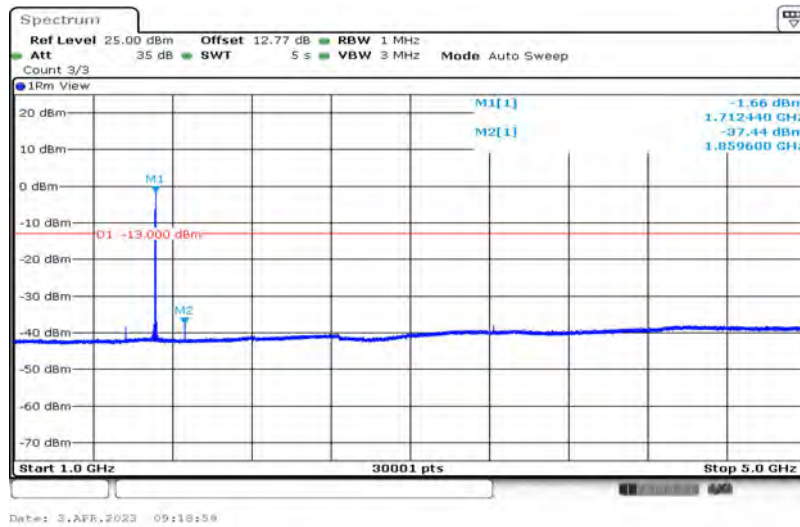
Band66-15MHz-QPSK-132047-1-0-Low-12000-26500--46.53-PASS



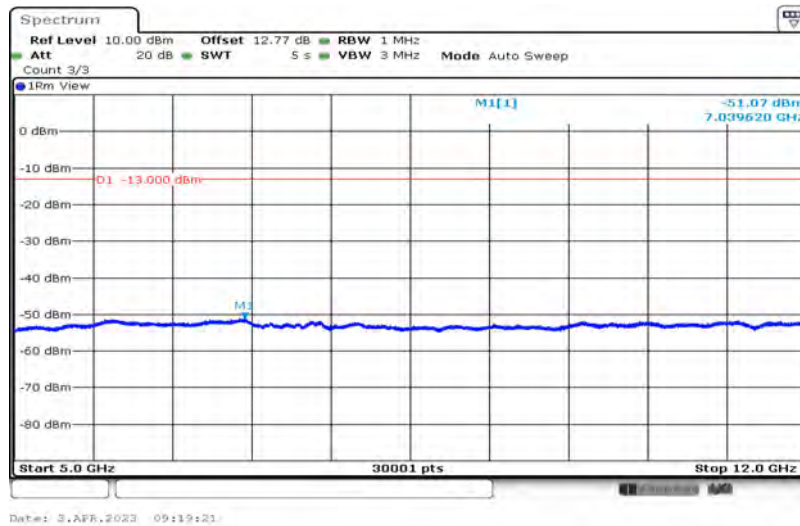
Band66-15MHz-16QAM-132047-1-0-Low-30-1000--32.19-PASS



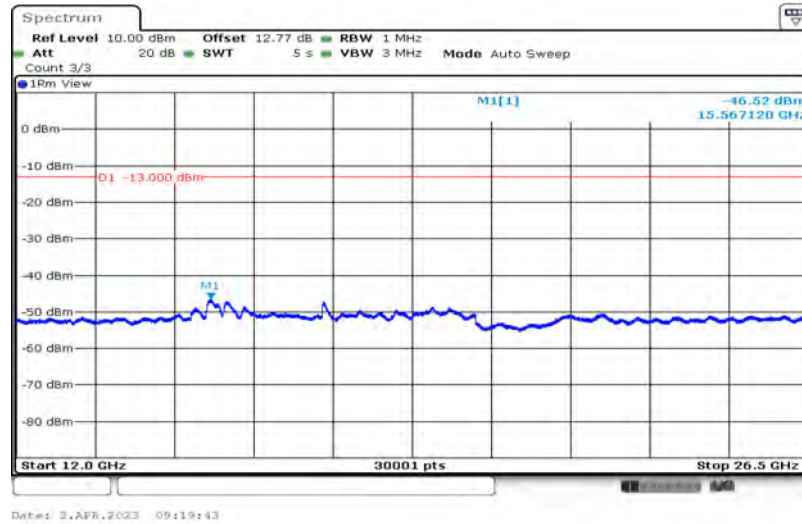
Band66-15MHz-16QAM-132047-1-0-Low-1000-5000--37.44-PASS



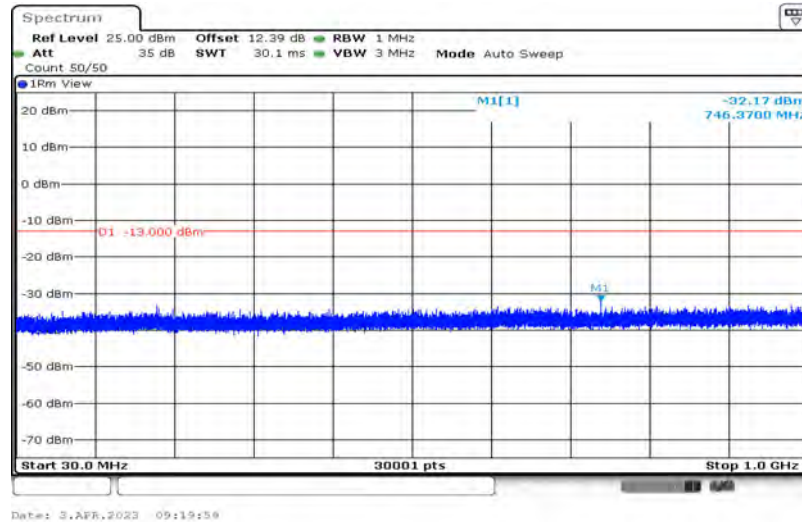
Band66-15MHz-16QAM-132047-1-0-Low-5000-12000--51.07-PASS



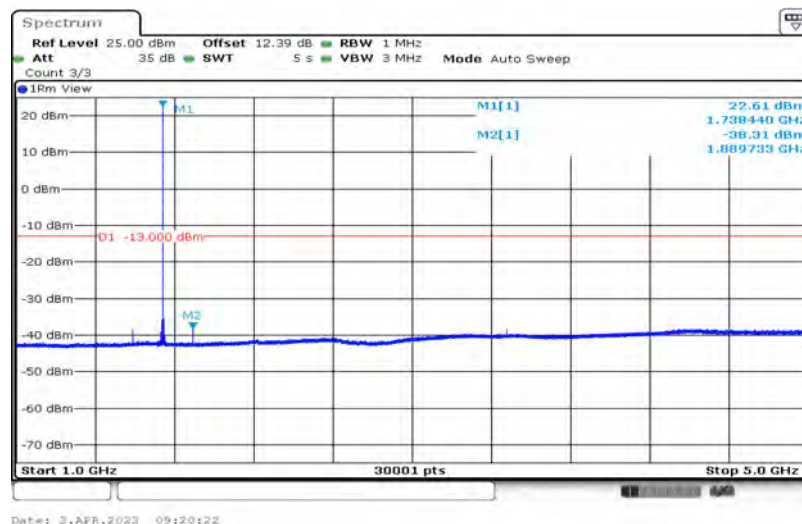
Band66-15MHz-16QAM-132047-1-0-Low-12000-26500--46.52-PASS



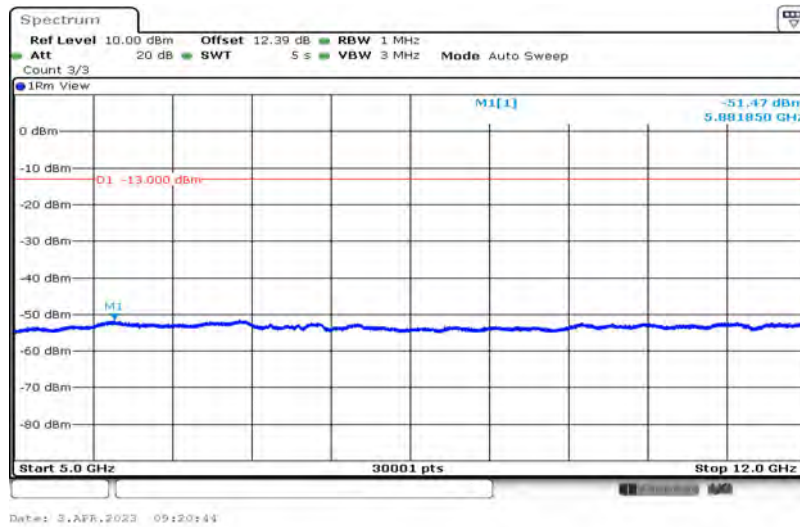
Band66-15MHz-QPSK-132322-1-0-Low-30-1000--32.17-PASS



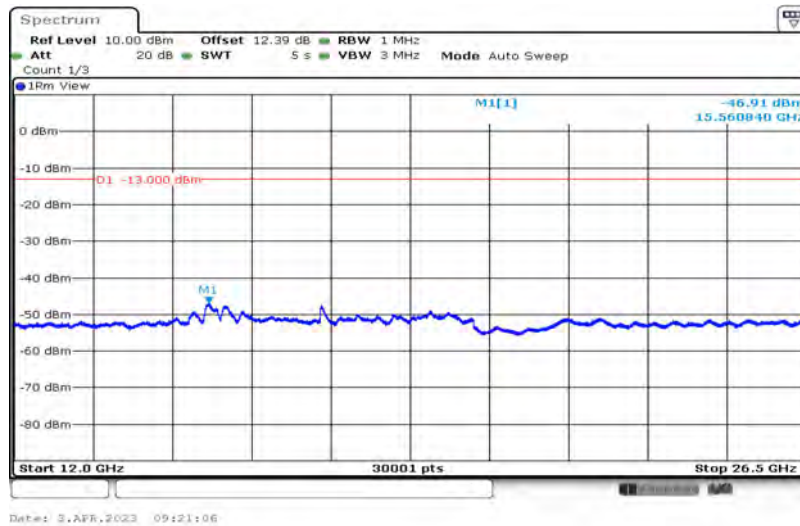
Band66-15MHz-QPSK-132322-1-0-Low-1000-5000--38.31-PASS



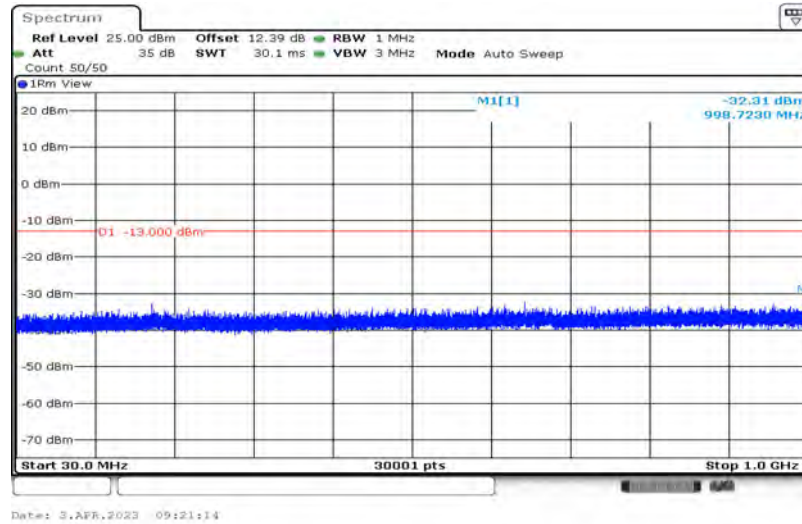
Band66-15MHz-QPSK-132322-1-0-Low-5000-12000--51.47-PASS



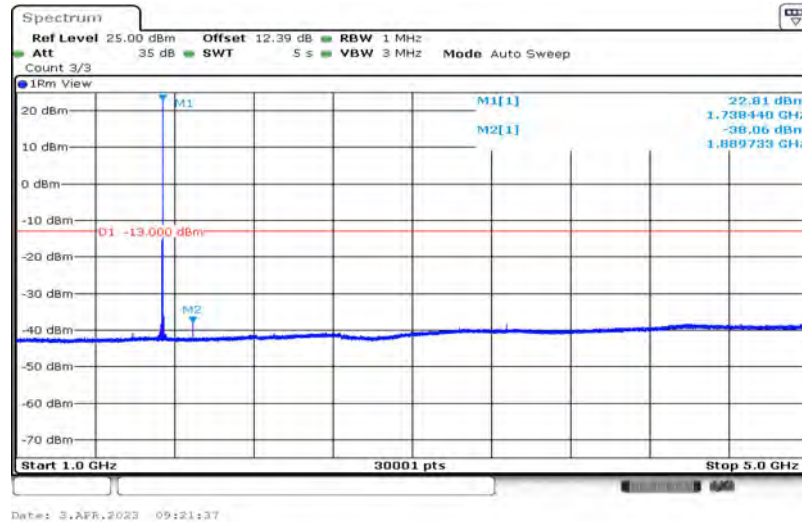
Band66-15MHz-QPSK-132322-1-0-Low-12000-26500--46.91-PASS



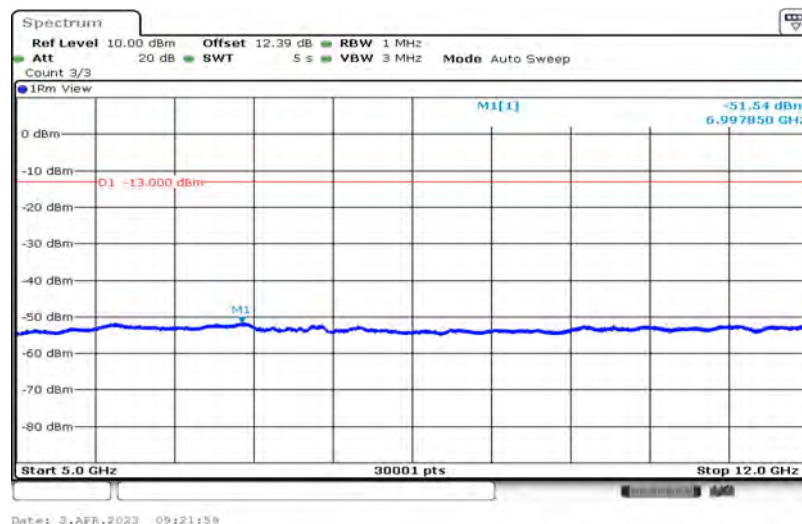
Band66-15MHz-16QAM-132322-1-0-Low-30-1000--32.31-PASS



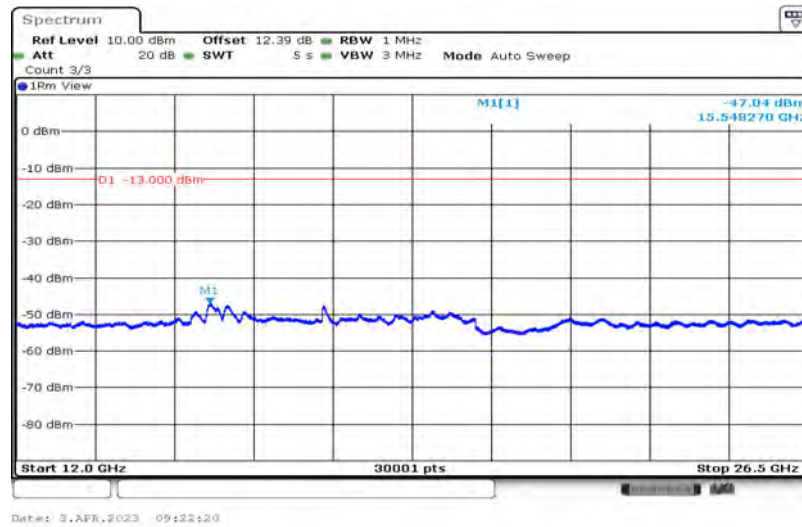
Band66-15MHz-16QAM-132322-1-0-Low-1000-5000--38.06-PASS



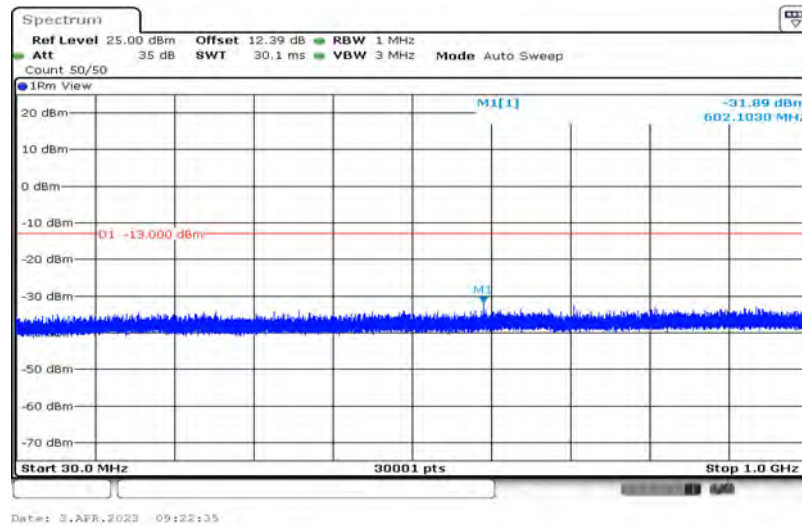
Band66-15MHz-16QAM-132322-1-0-Low-5000-12000--51.54-PASS



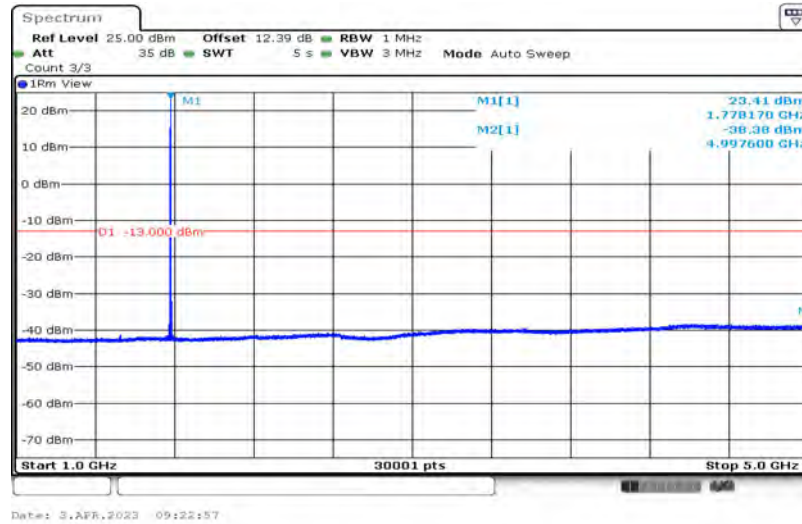
Band66-15MHz-16QAM-132322-1-0-Low-12000-26500--47.04-PASS



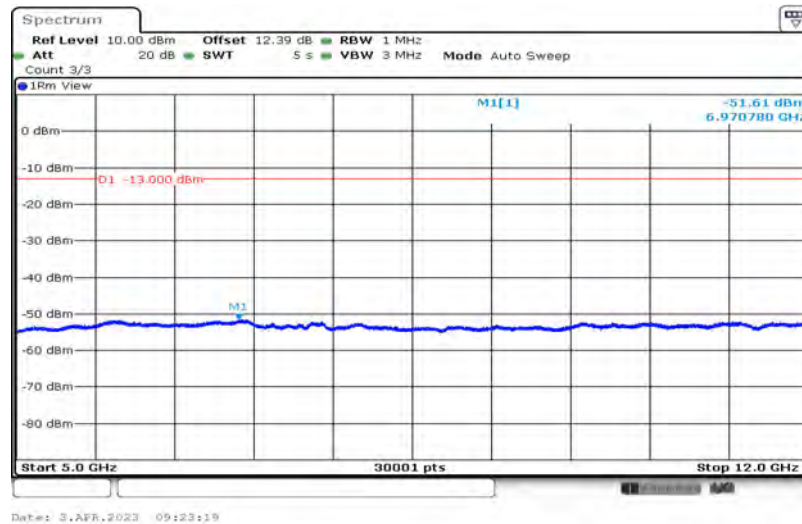
Band66-15MHz-QPSK-132597-1-0-High-30-1000--31.89-PASS



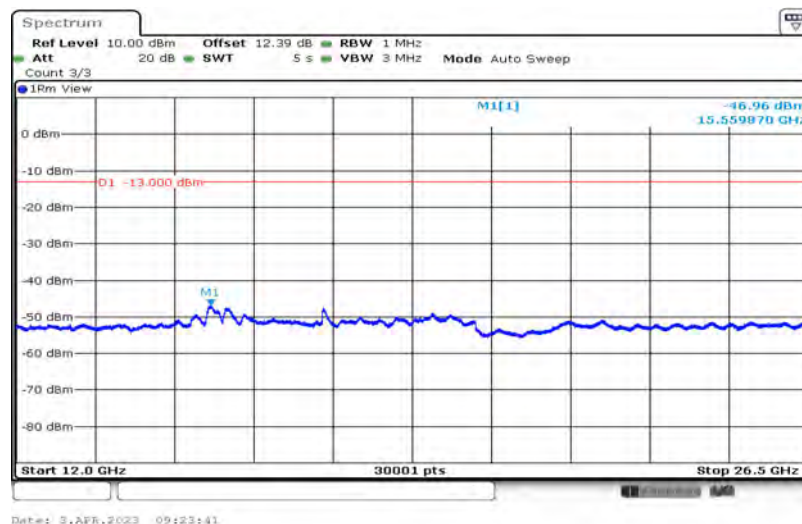
Band66-15MHz-QPSK-132597-1-0-High-1000-5000--38.38-PASS



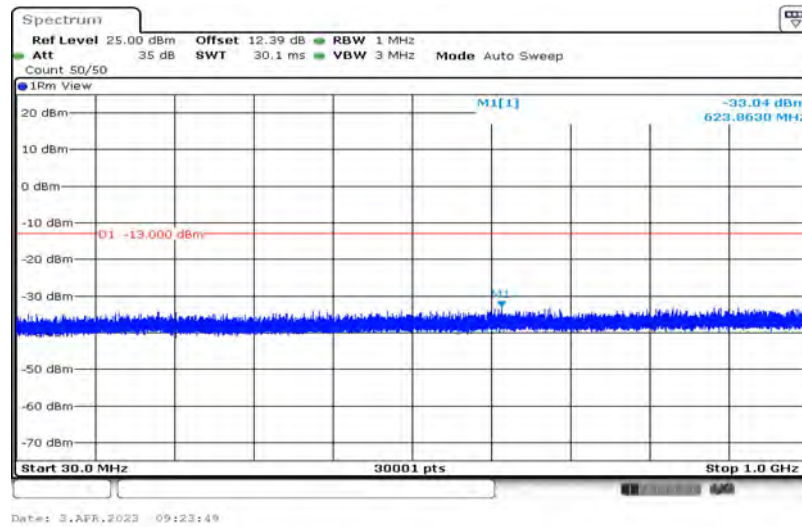
Band66-15MHz-QPSK-132597-1-0-High-5000-12000--51.61-PASS



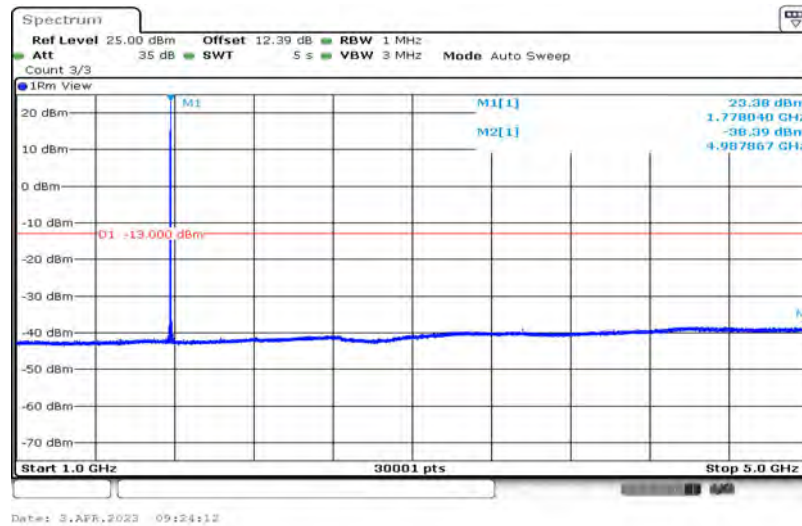
Band66-15MHz-QPSK-132597-1-0-High-12000-26500--46.96-PASS



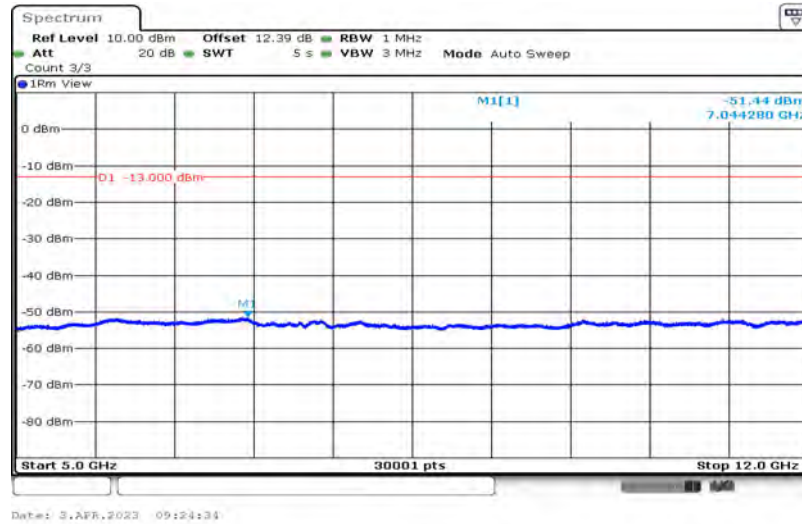
Band66-15MHz-16QAM-132597-1-0-High-30-1000--33.04-PASS



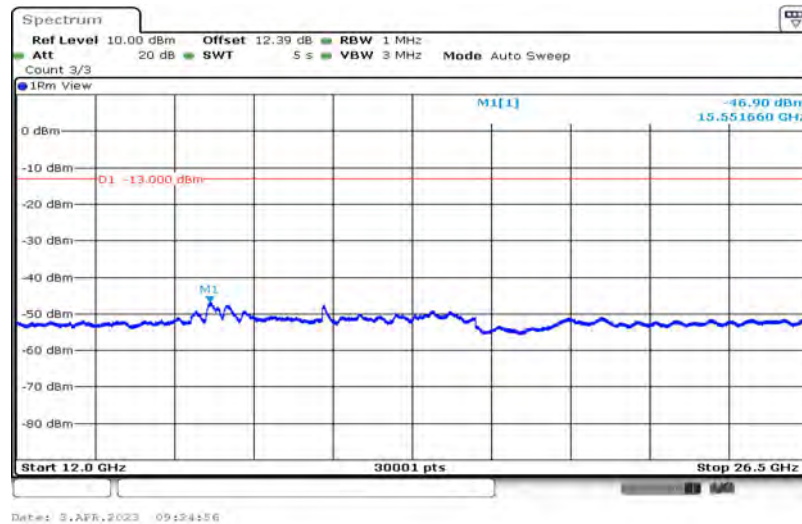
Band66-15MHz-16QAM-132597-1-0-High-1000-5000--38.39-PASS



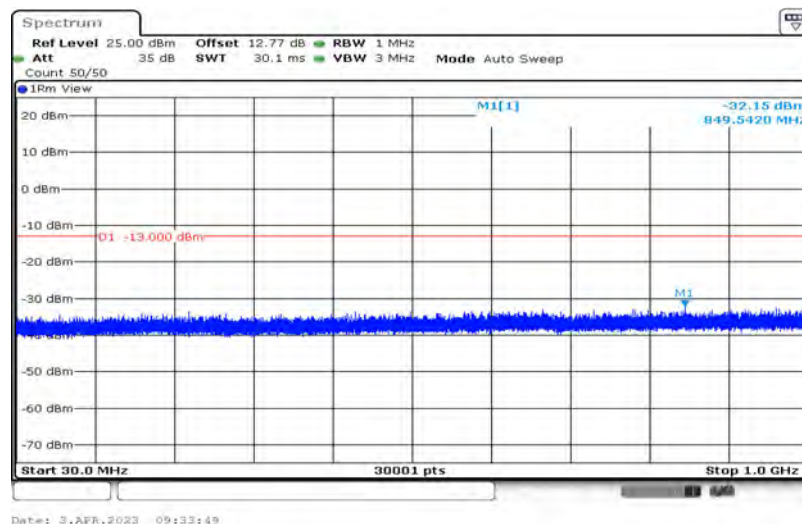
Band66-15MHz-16QAM-132597-1-0-High-5000-12000--51.44-PASS



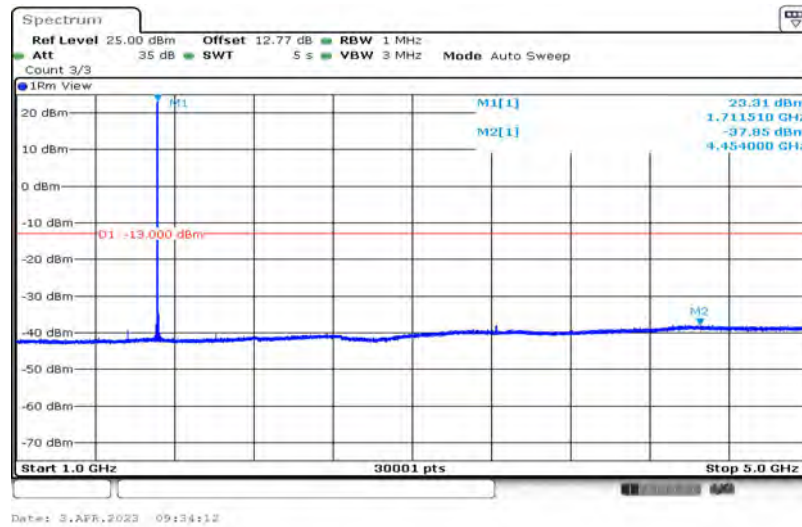
Band66-15MHz-16QAM-132597-1-0-High-12000-26500--46.9-PASS



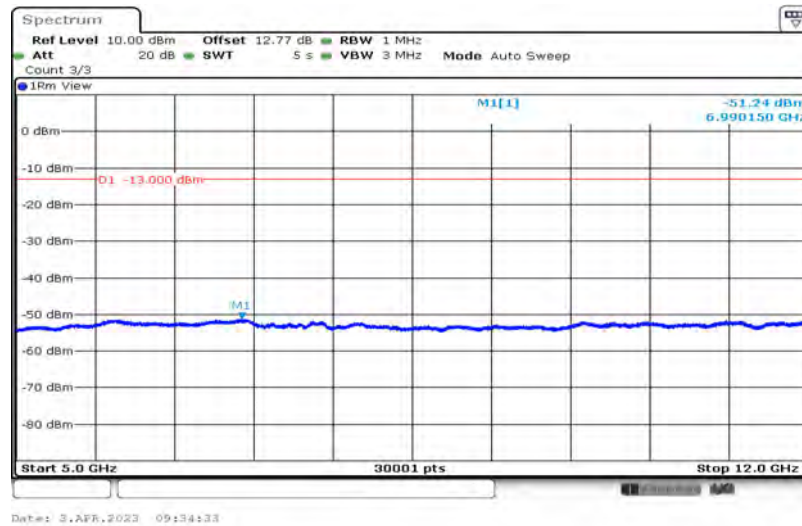
Band66-20MHz-QPSK-132072-1-0-Low-30-1000--32.15-PASS



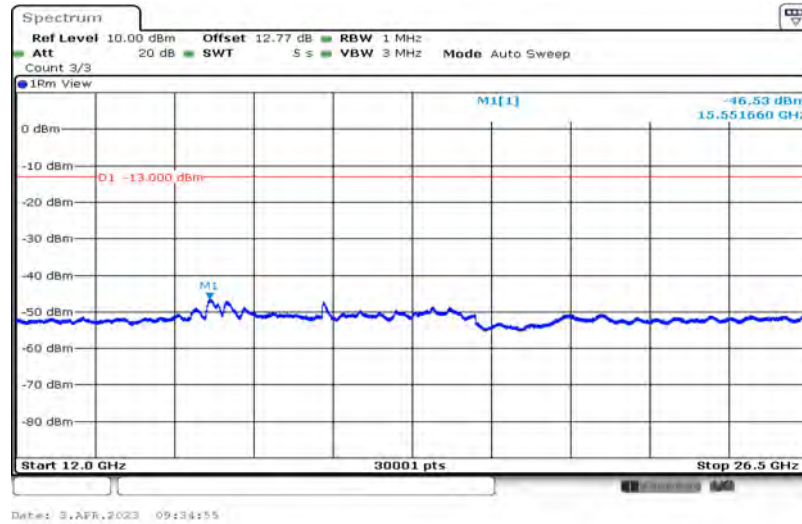
Band66-20MHz-QPSK-132072-1-0-Low-1000-5000--37.85-PASS



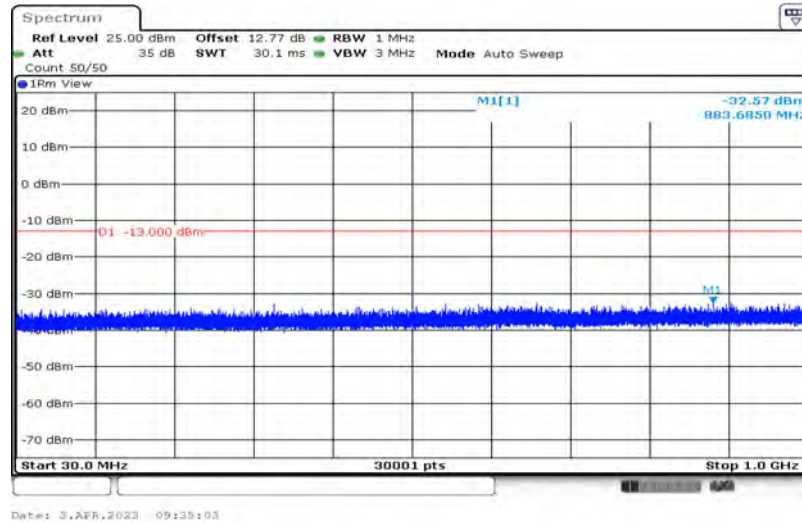
Band66-20MHz-QPSK-132072-1-0-Low-5000-12000--51.24-PASS



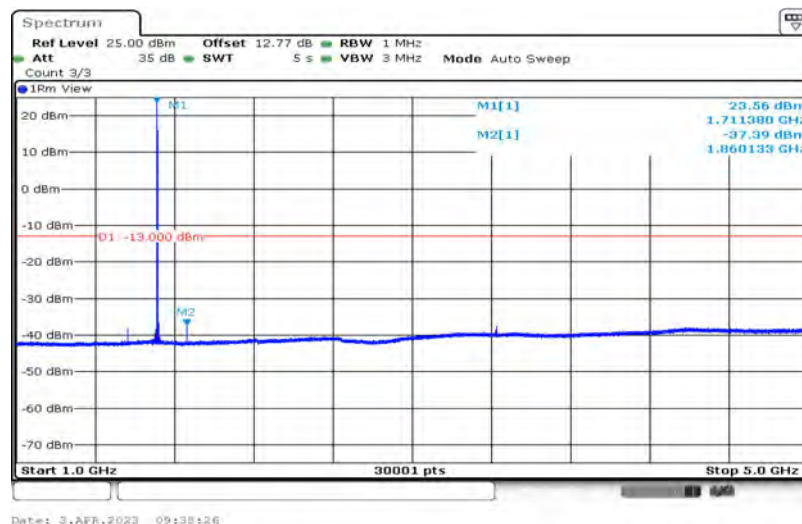
Band66-20MHz-QPSK-132072-1-0-Low-12000-26500--46.53-PASS



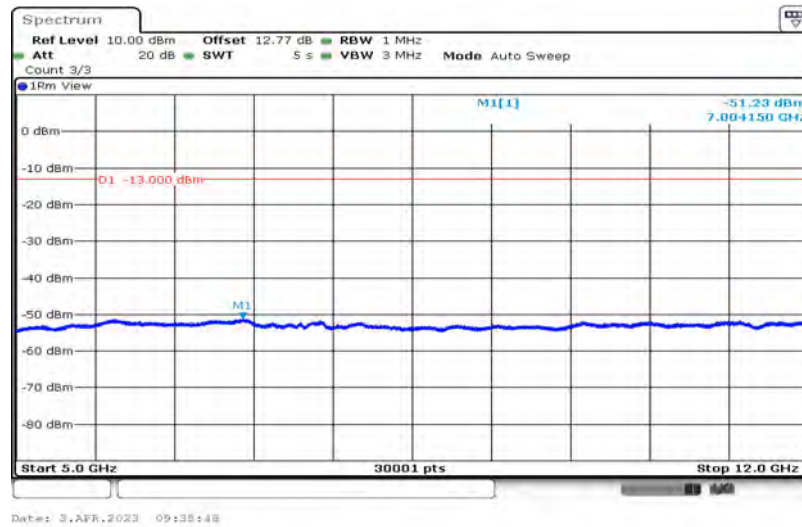
Band66-20MHz-16QAM-132072-1-0-Low-30-1000--32.57-PASS



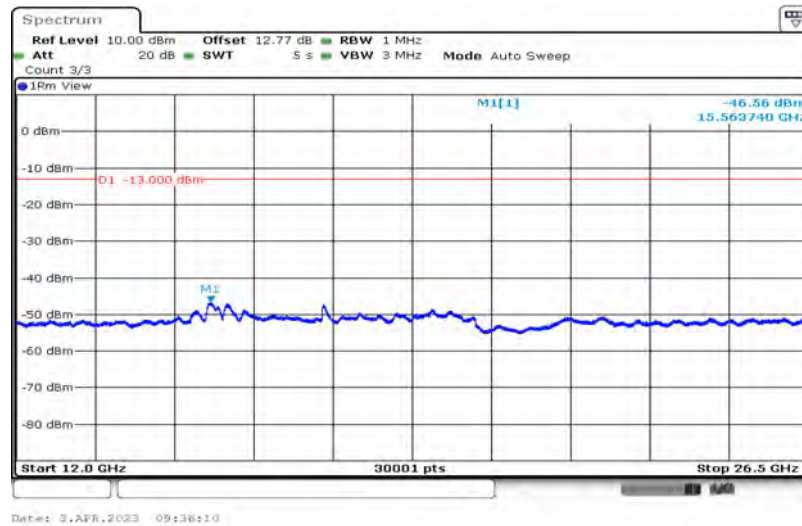
Band66-20MHz-16QAM-132072-1-0-Low-1000-5000--37.39-PASS



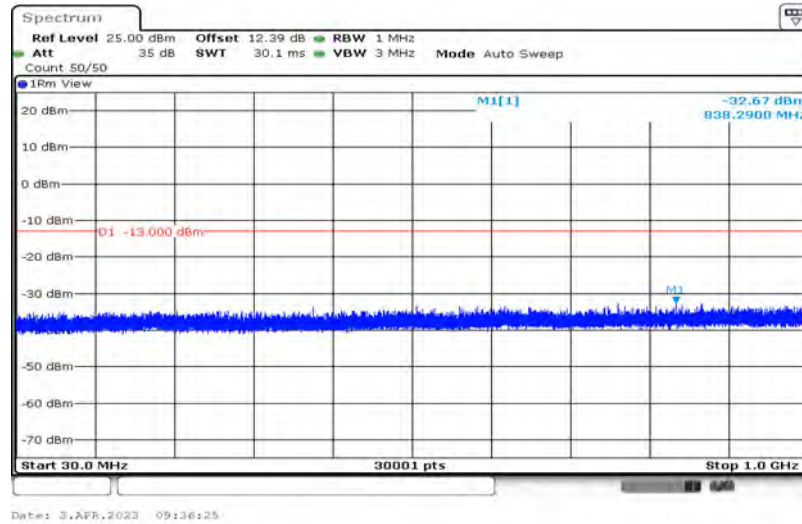
Band66-20MHz-16QAM-132072-1-0-Low-5000-12000--51.23-PASS



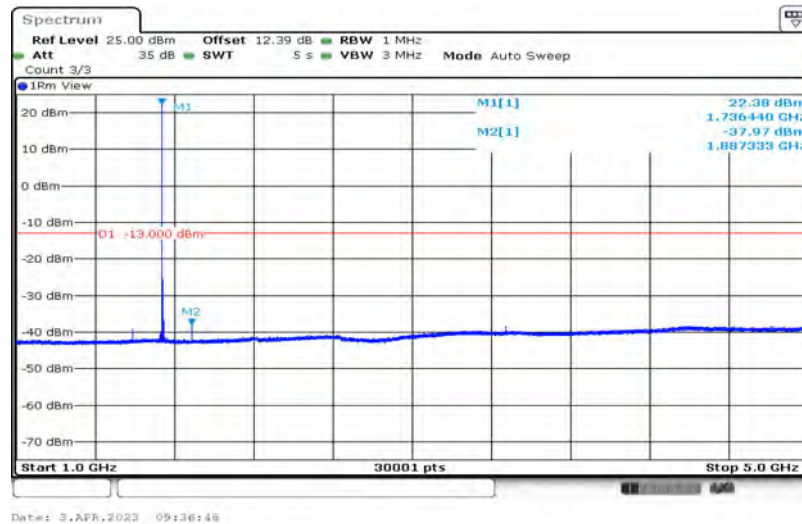
Band66-20MHz-16QAM-132072-1-0-Low-12000-26500--46.56-PASS



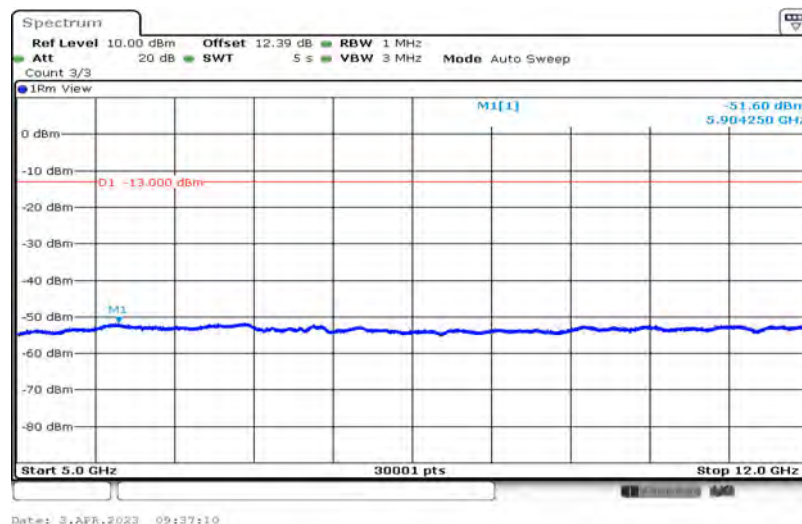
Band66-20MHz-QPSK-132322-1-0-Low-30-1000--32.67-PASS



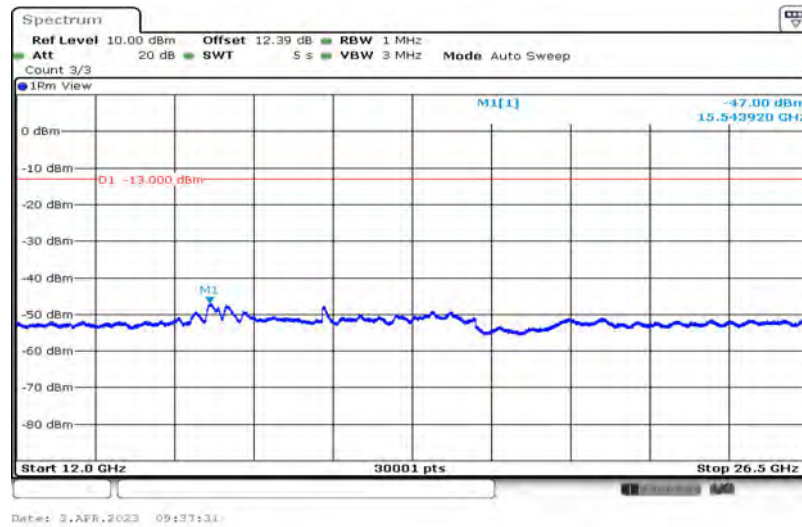
Band66-20MHz-QPSK-132322-1-0-Low-1000-5000--37.97-PASS



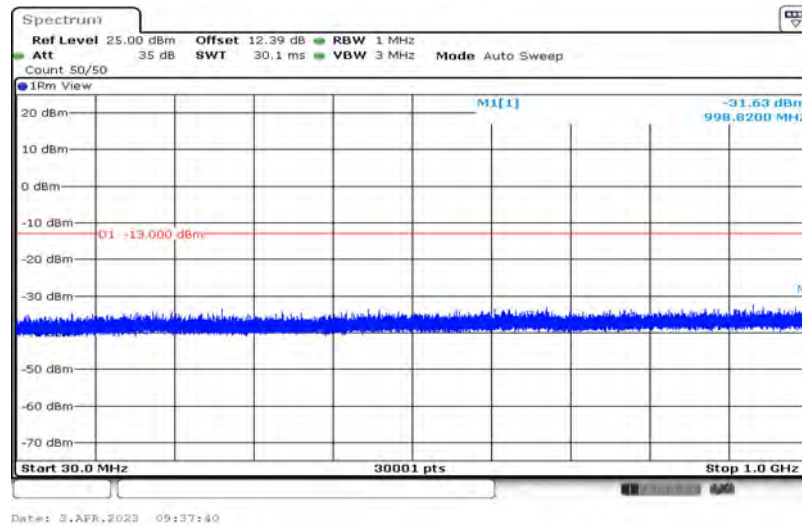
Band66-20MHz-QPSK-132322-1-0-Low-5000-12000--51.6-PASS



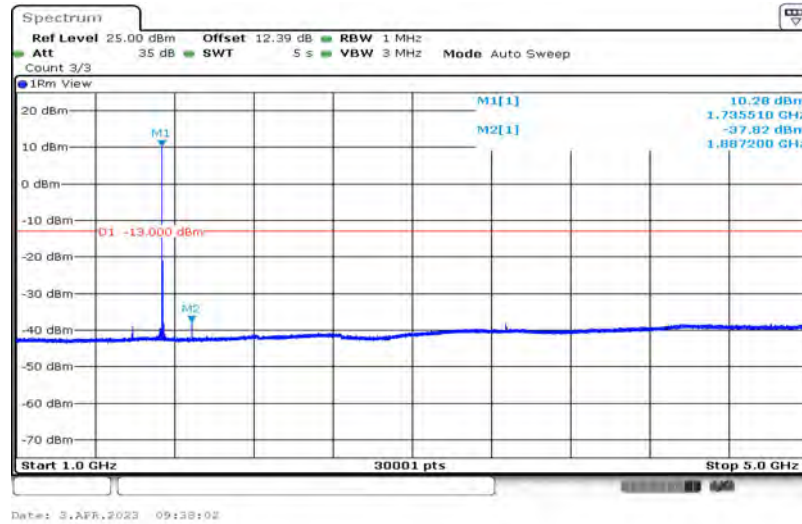
Band66-20MHz-QPSK-132322-1-0-Low-12000-26500--47-PASS



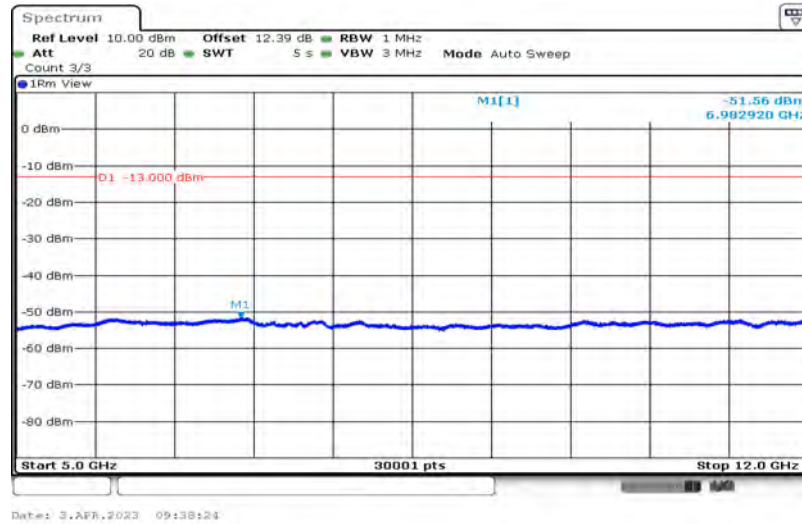
Band66-20MHz-16QAM-132322-1-0-Low-30-1000--31.63-PASS



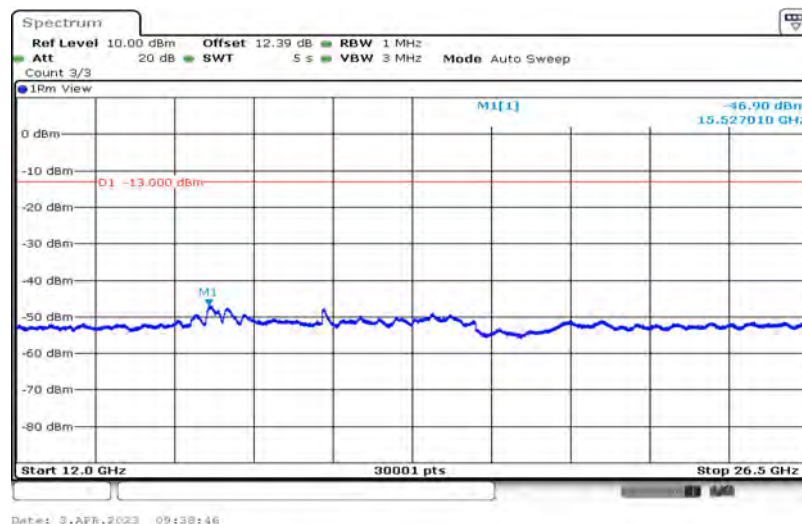
Band66-20MHz-16QAM-132322-1-0-Low-1000-5000--37.82-PASS



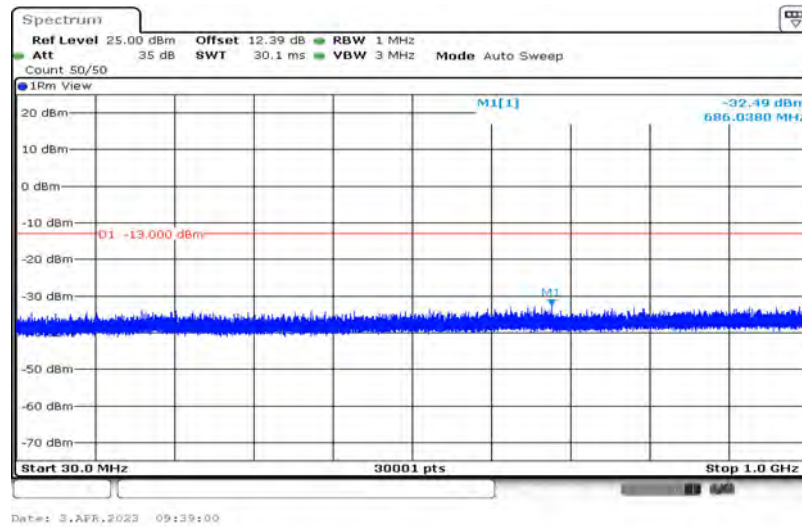
Band66-20MHz-16QAM-132322-1-0-Low-5000-12000--51.56-PASS



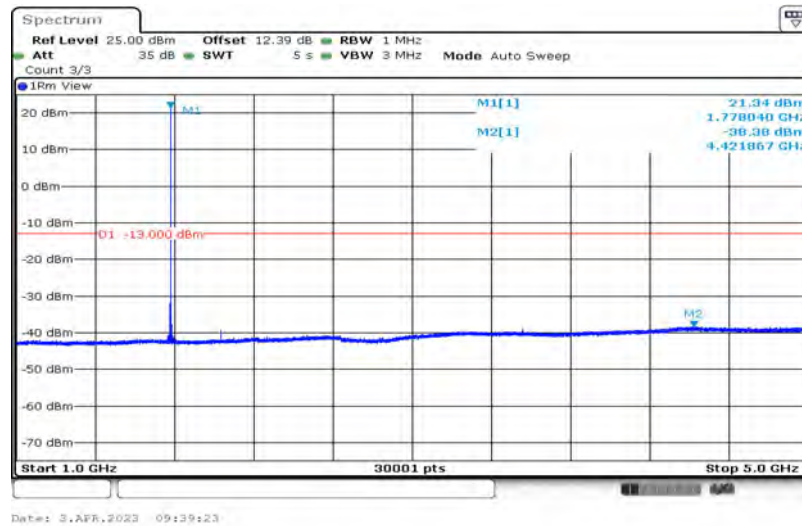
Band66-20MHz-16QAM-132322-1-0-Low-12000-26500--46.9-PASS



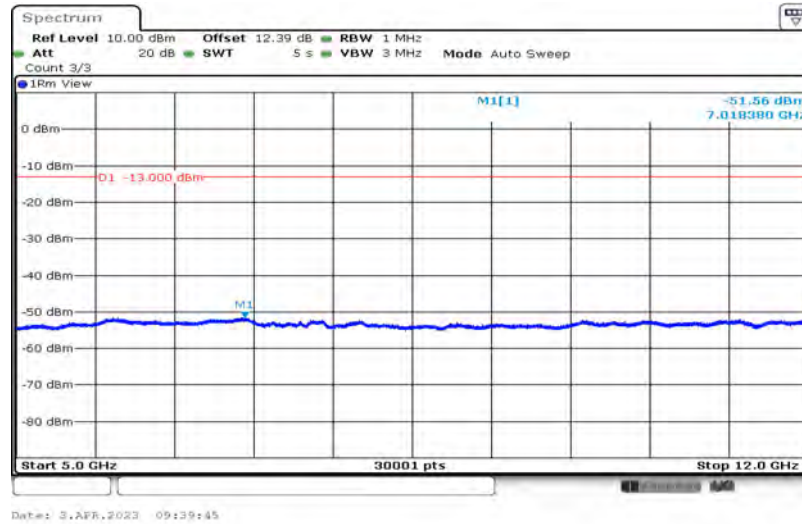
Band66-20MHz-QPSK-132572-1-0-High-30-1000--32.49-PASS



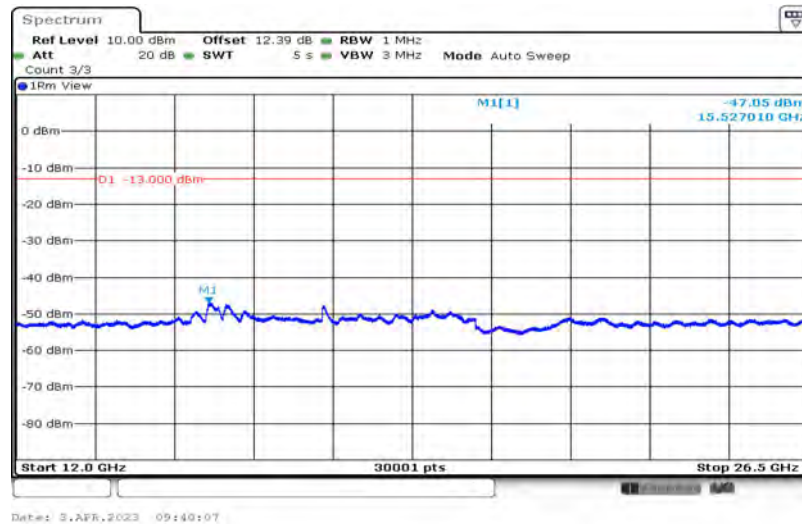
Band66-20MHz-QPSK-132572-1-0-High-1000-5000--38.38-PASS



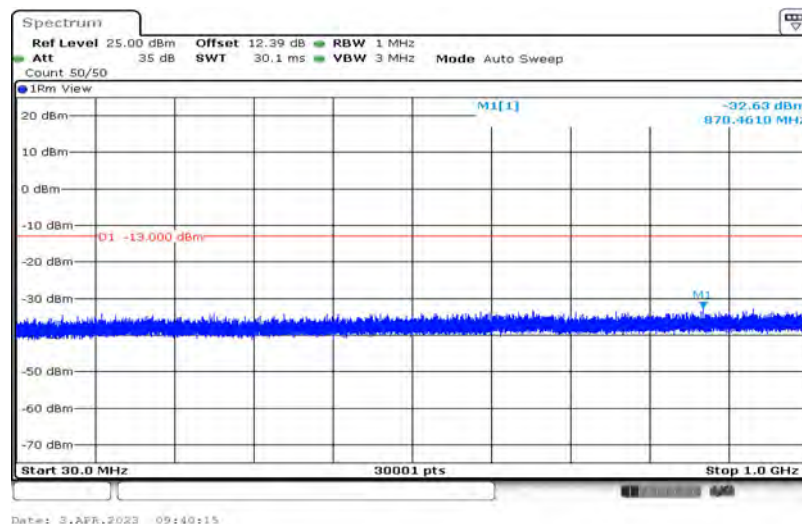
Band66-20MHz-QPSK-132572-1-0-High-5000-12000--51.56-PASS



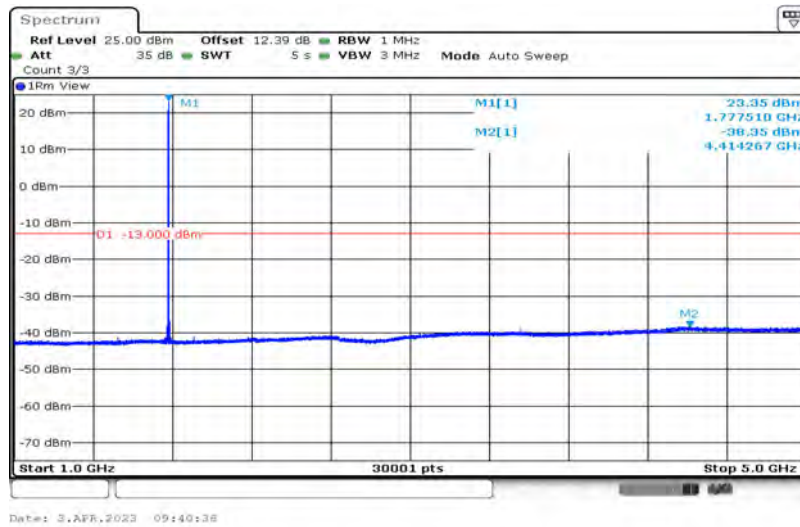
Band66-20MHz-QPSK-132572-1-0-High-12000-26500--47.05-PASS



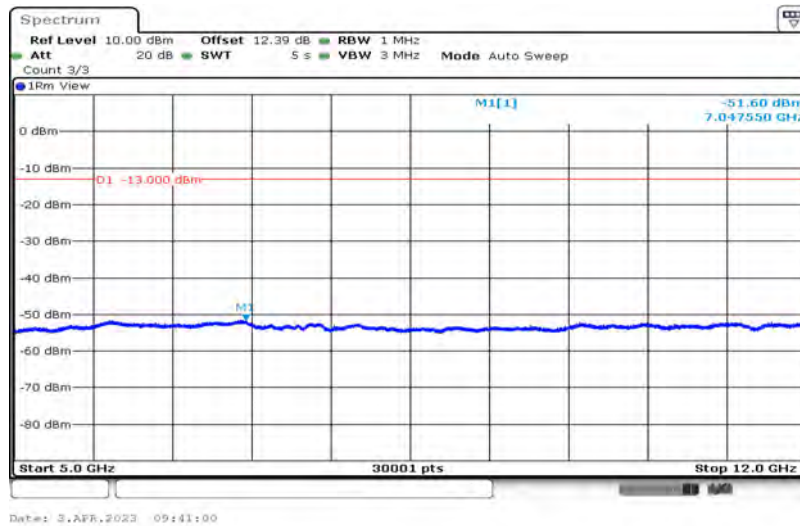
Band66-20MHz-16QAM-132572-1-0-High-30-1000--32.63-PASS



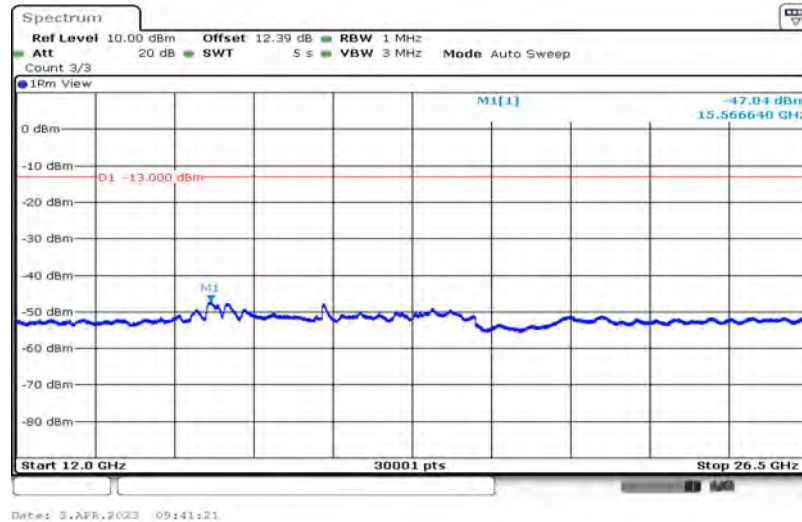
Band66-20MHz-16QAM-132572-1-0-High-1000-5000--38.35-PASS



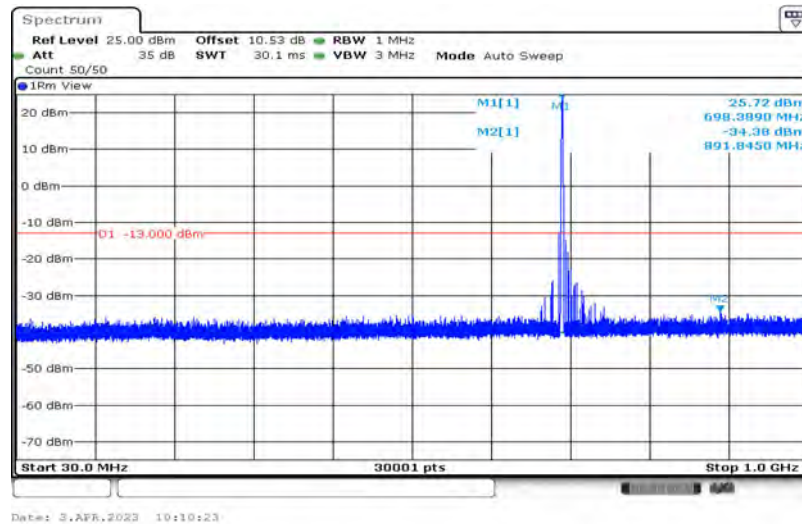
Band66-20MHz-16QAM-132572-1-0-High-5000-12000--51.6-PASS



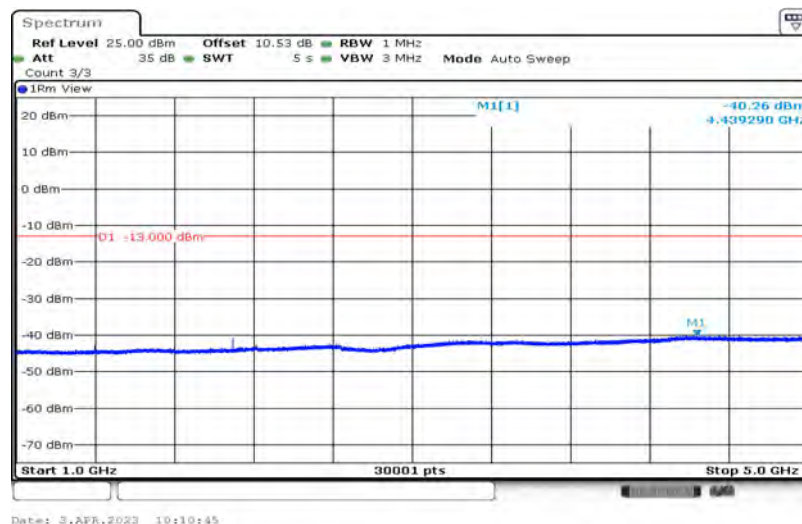
Band66-20MHz-16QAM-132572-1-0-High-12000-26500--47.04-PASS



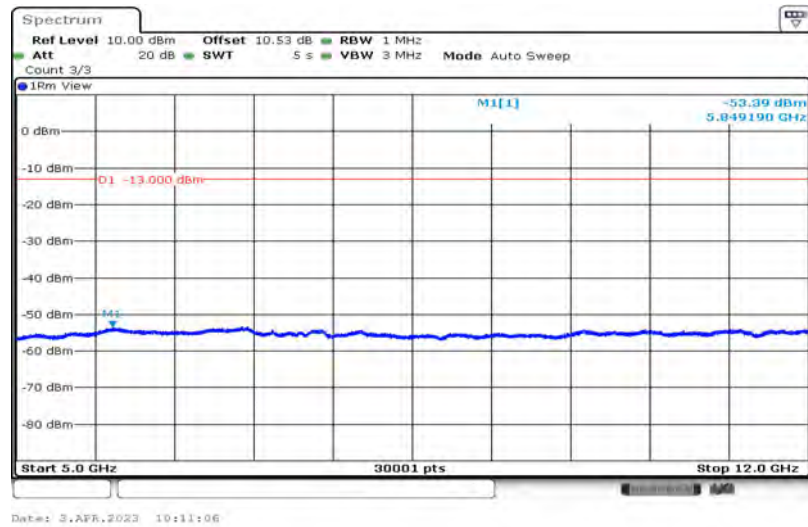
Band85-5MHz-QPSK-134027-1-0-Low-30-1000--34.38-PASS



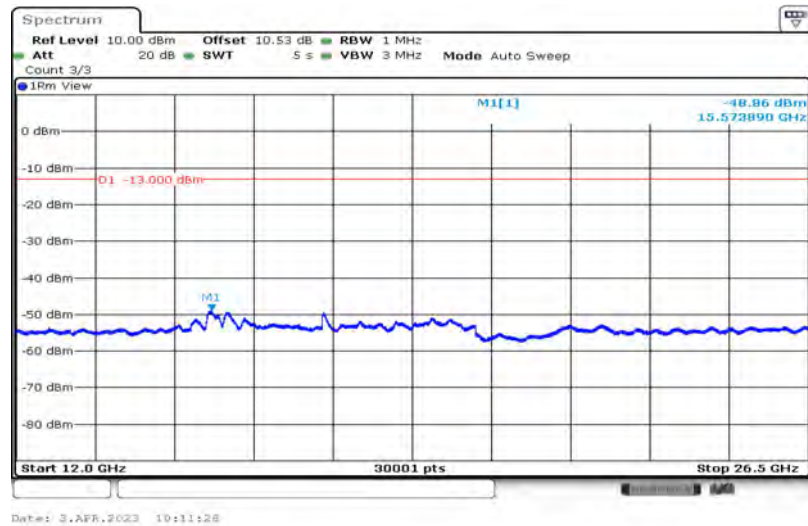
Band85-5MHz-QPSK-134027-1-0-Low-1000-5000--40.26-PASS



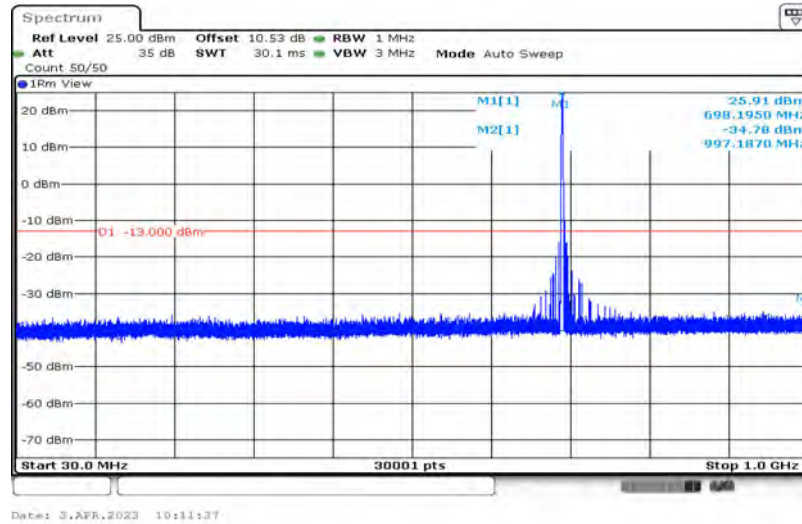
Band85-5MHz-QPSK-134027-1-0-Low-5000-12000--53.39-PASS



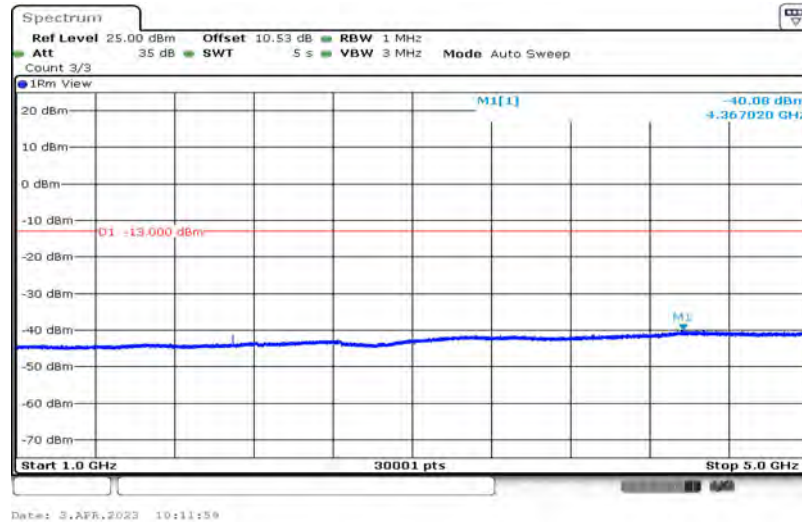
Band85-5MHz-QPSK-134027-1-0-Low-12000-26500--48.86-PASS



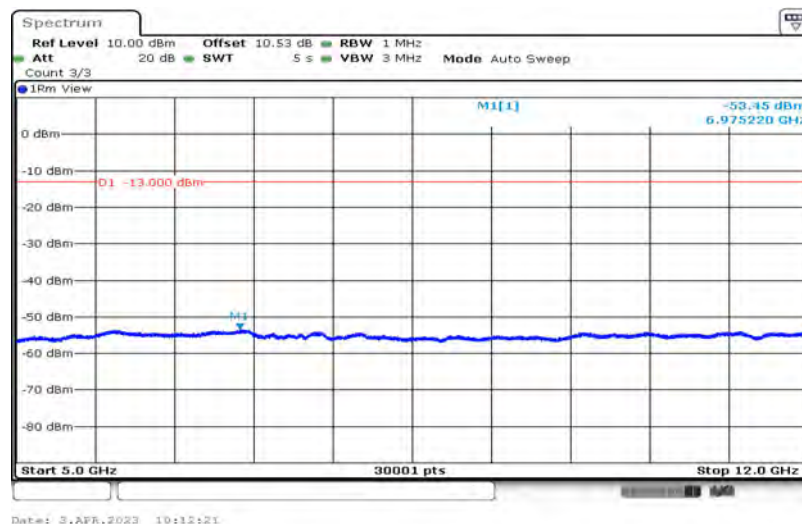
Band85-5MHz-16QAM-134027-1-0-Low-30-1000--34.78-PASS



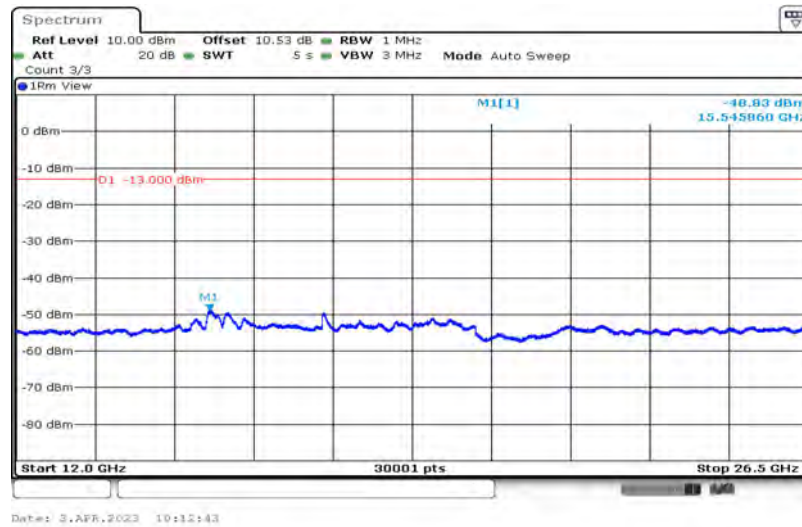
Band85-5MHz-16QAM-134027-1-0-Low-1000-5000--40.08-PASS



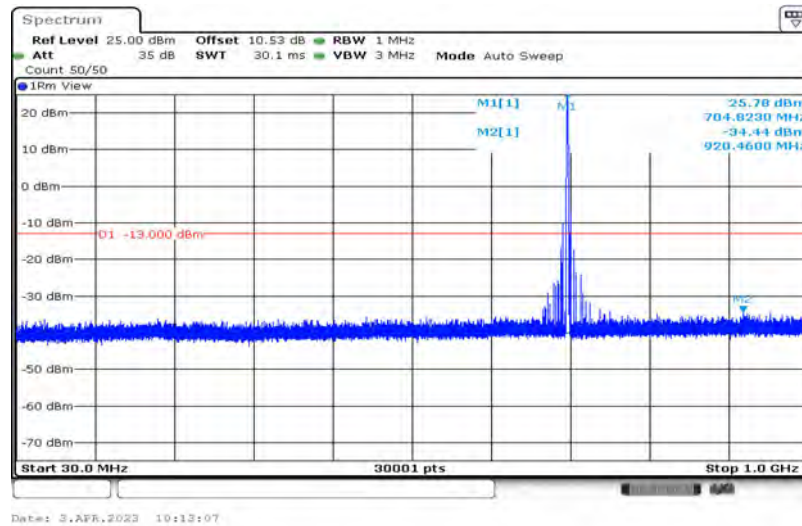
Band85-5MHz-16QAM-134027-1-0-Low-5000-12000--53.45-PASS



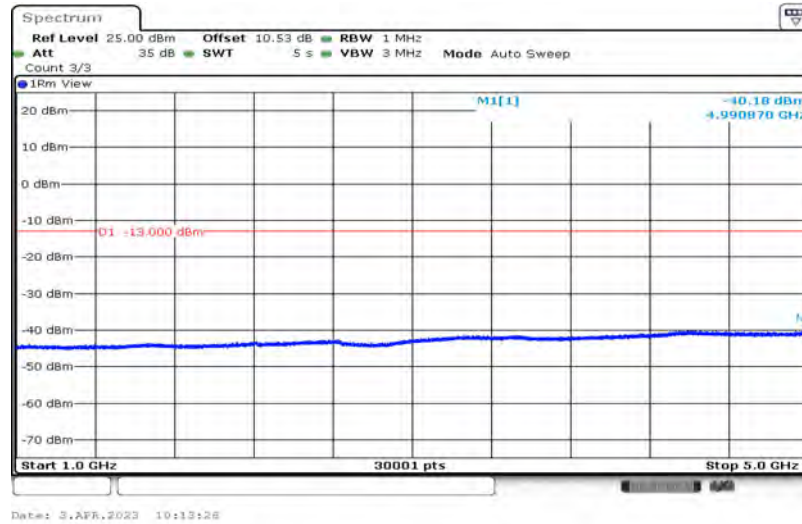
Band85-5MHz-16QAM-134027-1-0-Low-12000-26500--48.83-PASS



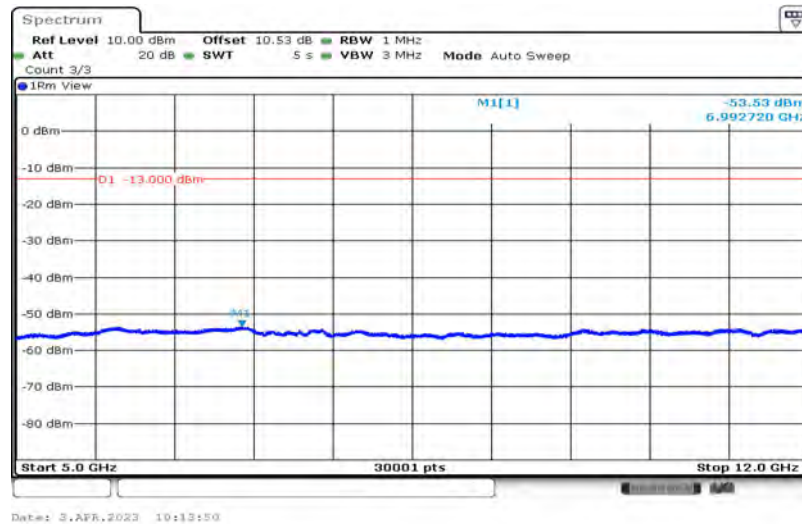
Band85-5MHz-QPSK-134092-1-0-Low-30-1000--34.44-PASS



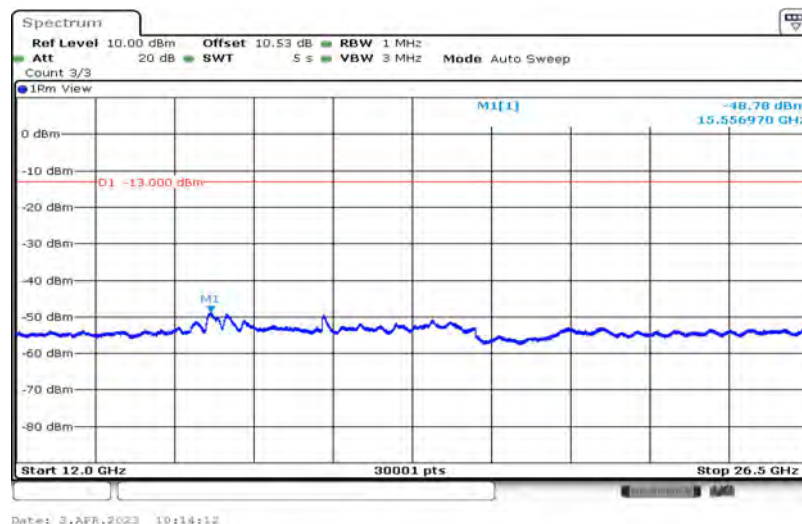
Band85-5MHz-QPSK-134092-1-0-Low-1000-5000--40.18-PASS



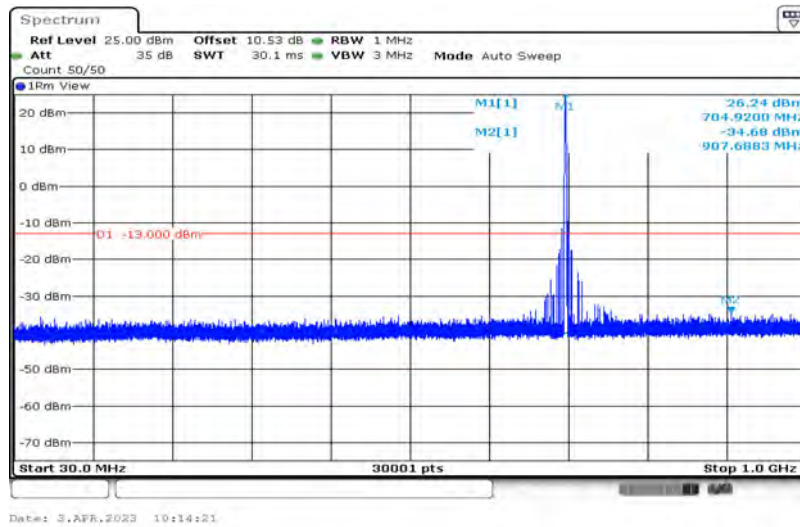
Band85-5MHz-QPSK-134092-1-0-Low-5000-12000--53.53-PASS



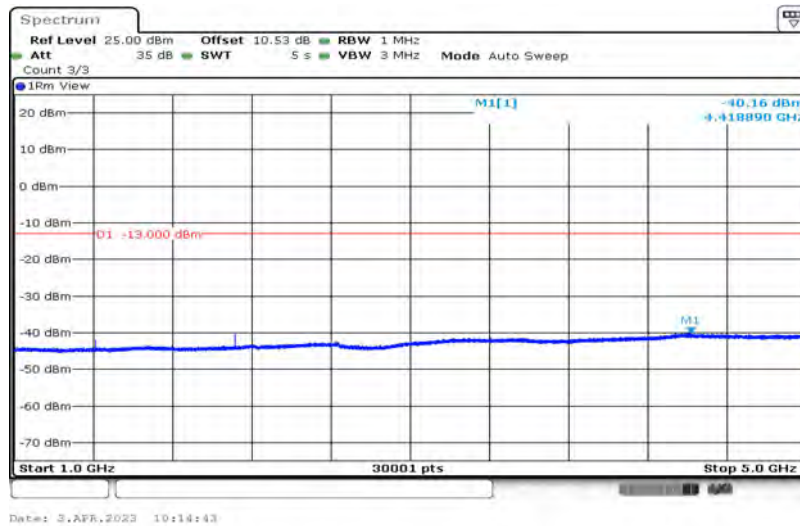
Band85-5MHz-QPSK-134092-1-0-Low-12000-26500--48.78-PASS



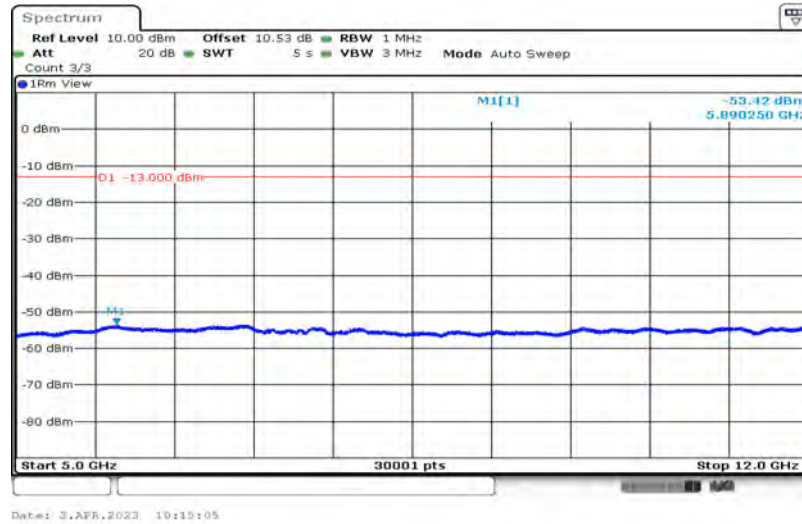
Band85-5MHz-16QAM-134092-1-0-Low-30-1000--34.68-PASS



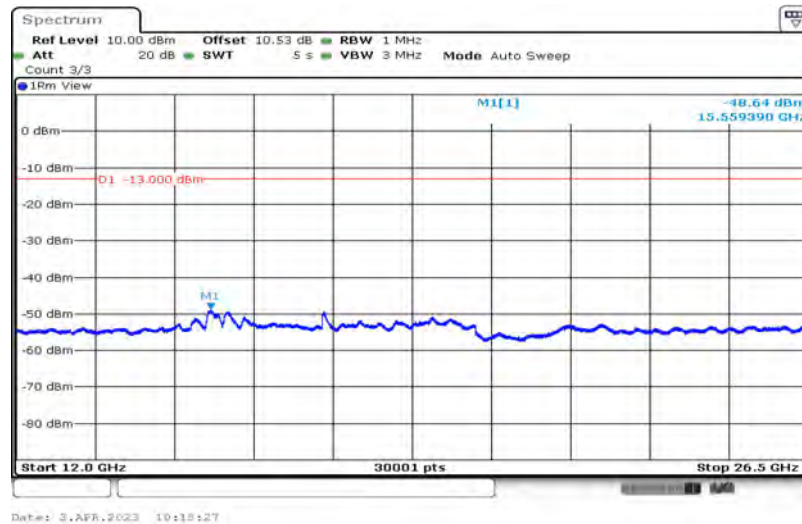
Band85-5MHz-16QAM-134092-1-0-Low-1000-5000--40.16-PASS



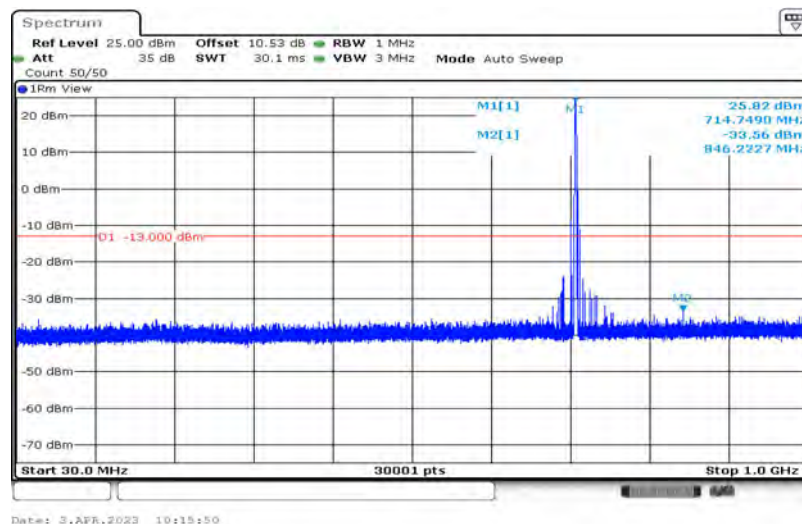
Band85-5MHz-16QAM-134092-1-0-Low-5000-12000--53.42-PASS



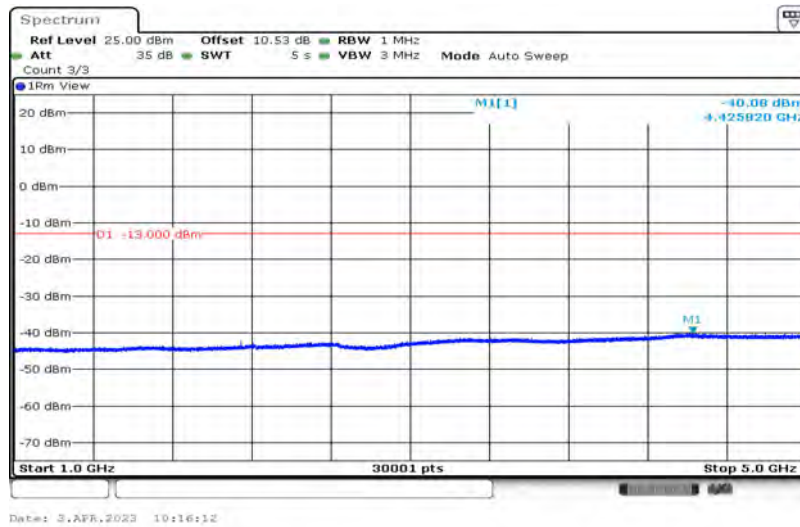
Band85-5MHz-16QAM-134092-1-0-Low-12000-26500--48.64-PASS



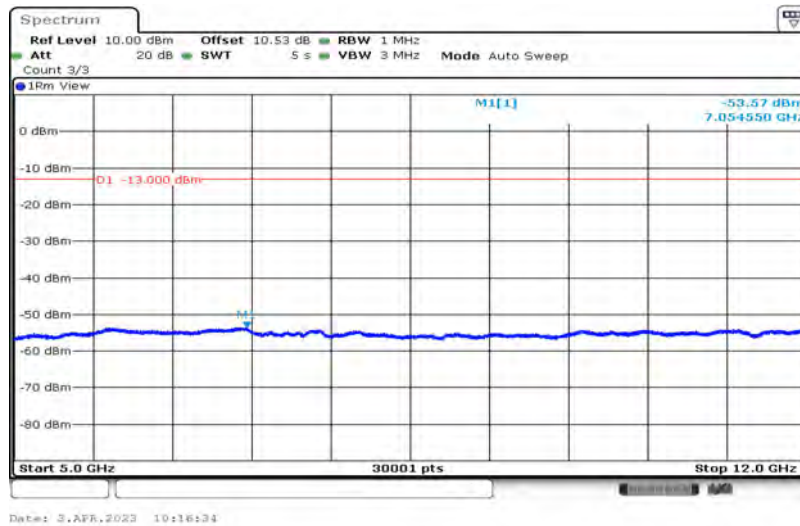
Band85-5MHz-QPSK-134157-1-0-High-30-1000--33.56-PASS



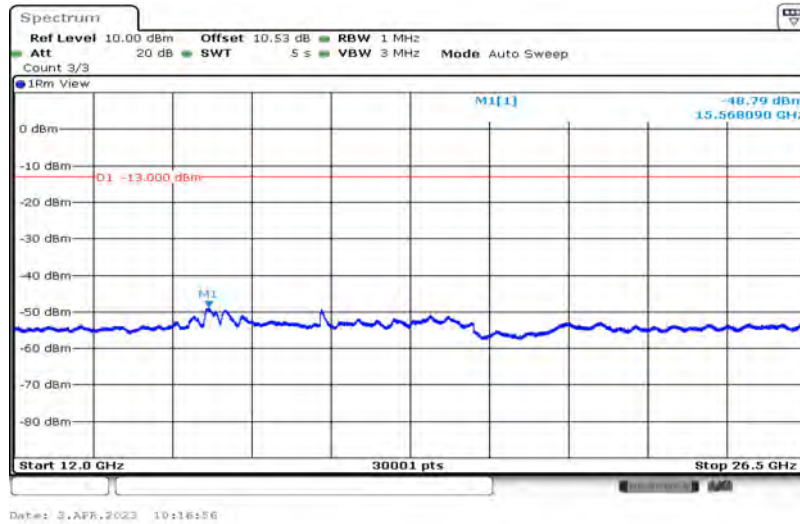
Band85-5MHz-QPSK-134157-1-0-High-1000-5000--40.08-PASS



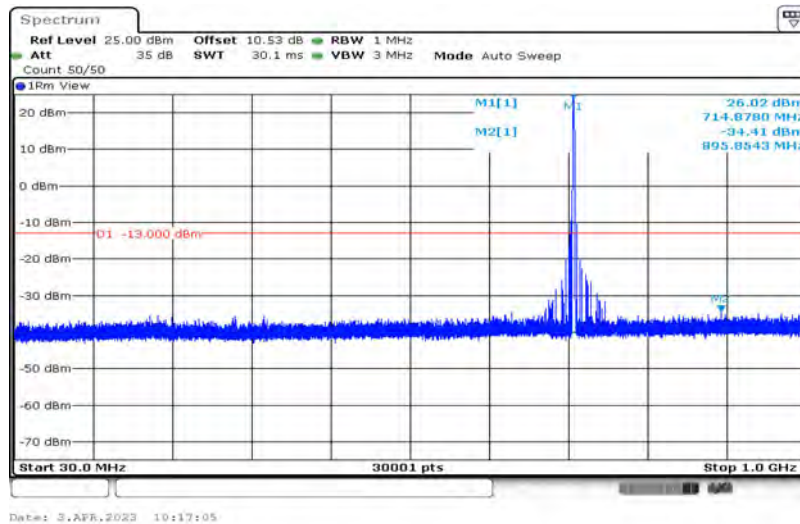
Band85-5MHz-QPSK-134157-1-0-High-5000-12000--53.57-PASS



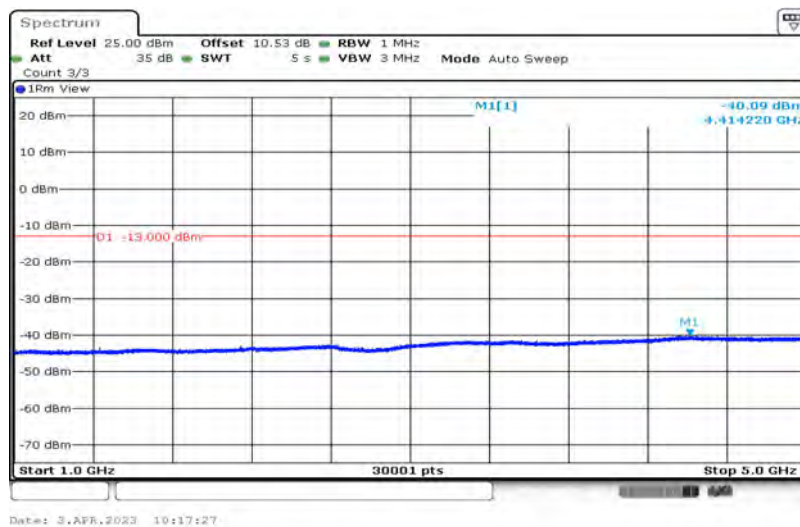
Band85-5MHz-QPSK-134157-1-0-High-12000-26500--48.79-PASS



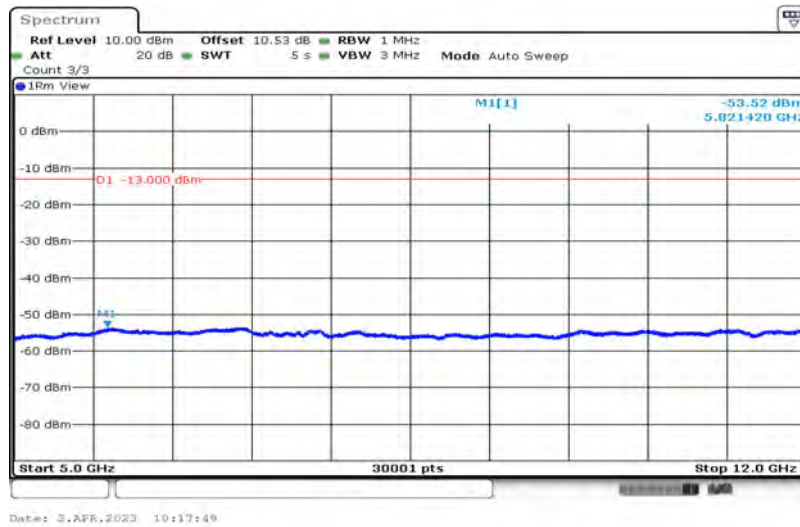
Band85-5MHz-16QAM-134157-1-0-High-30-1000--34.41-PASS



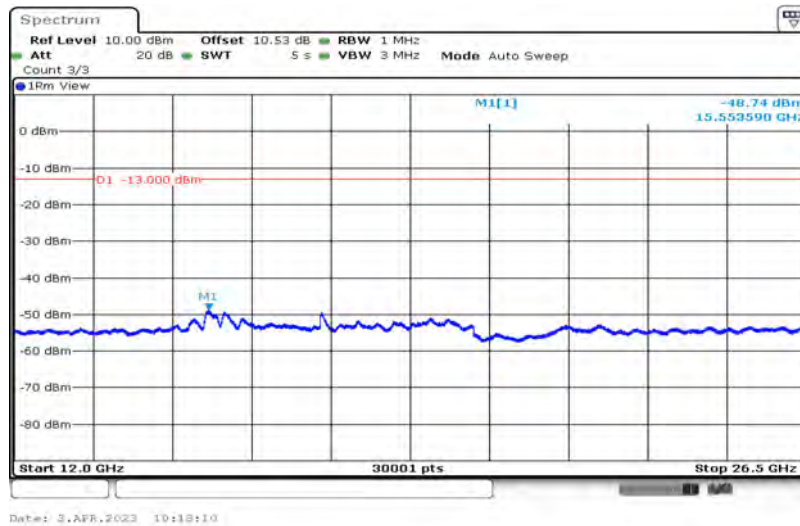
Band85-5MHz-16QAM-134157-1-0-High-1000-5000--40.09-PASS



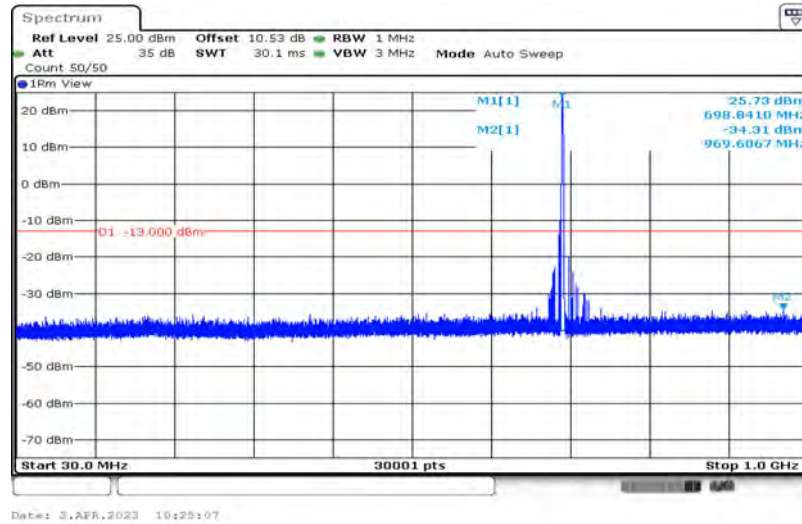
Band85-5MHz-16QAM-134157-1-0-High-5000-12000--53.52-PASS



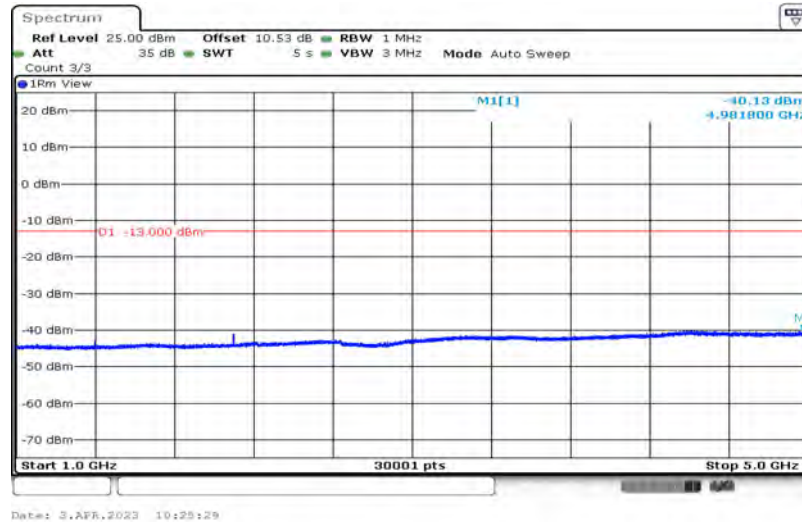
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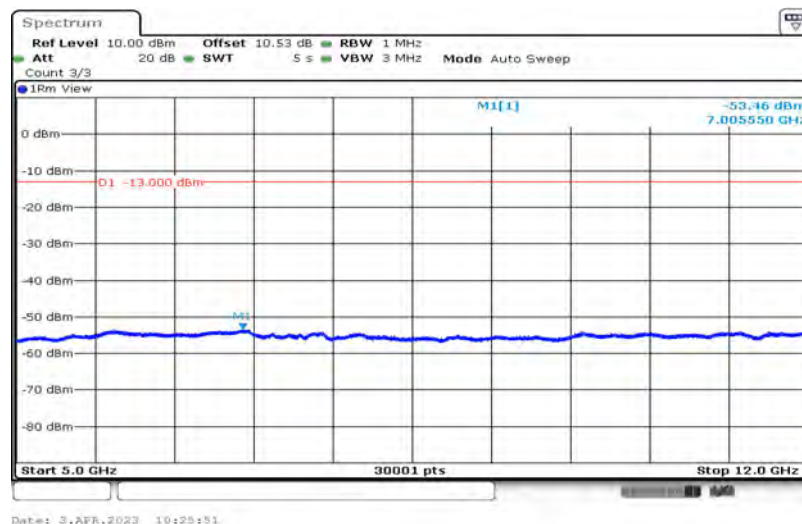
Band85-10MHz-QPSK-134052-1-0-Low-30-1000--34.31-PASS



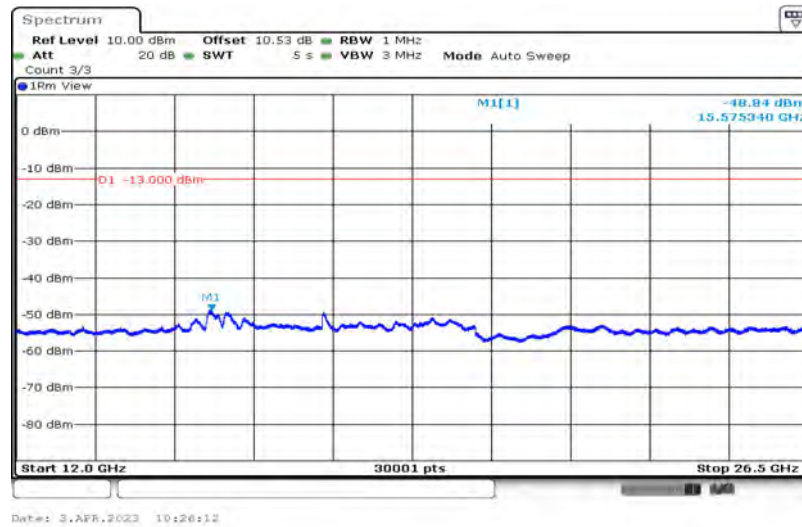
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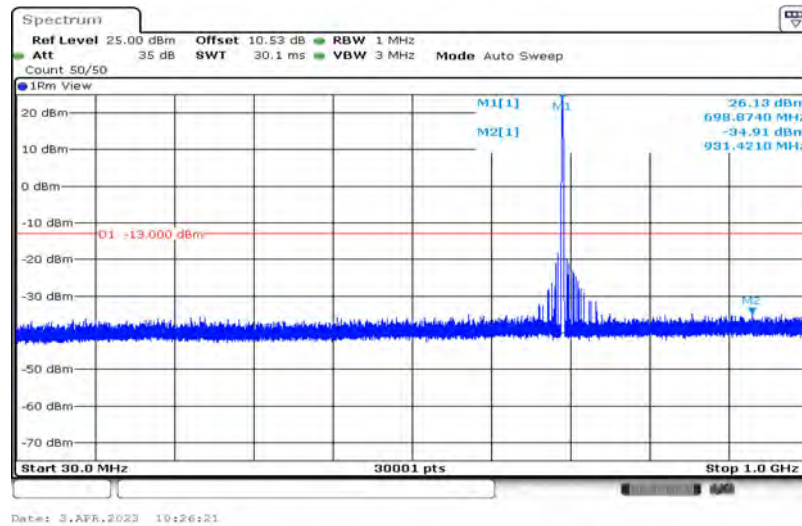
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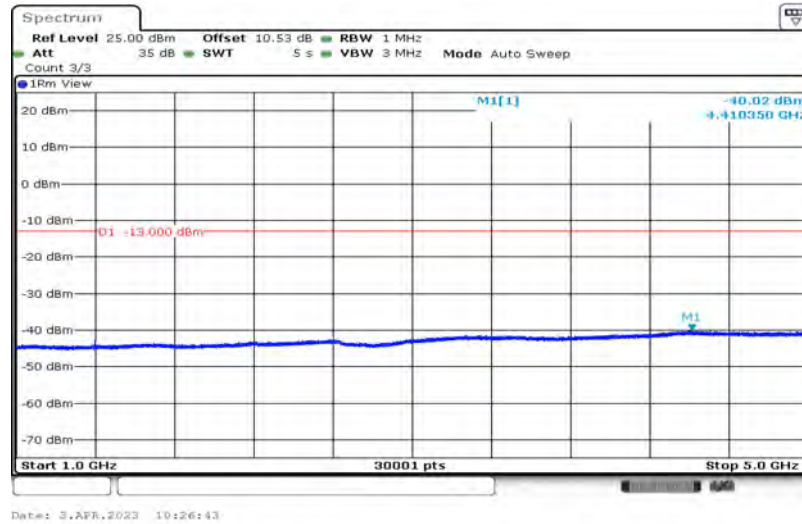
Band85-10MHz-QPSK-134052-1-0-Low-12000-26500--48.84-PASS



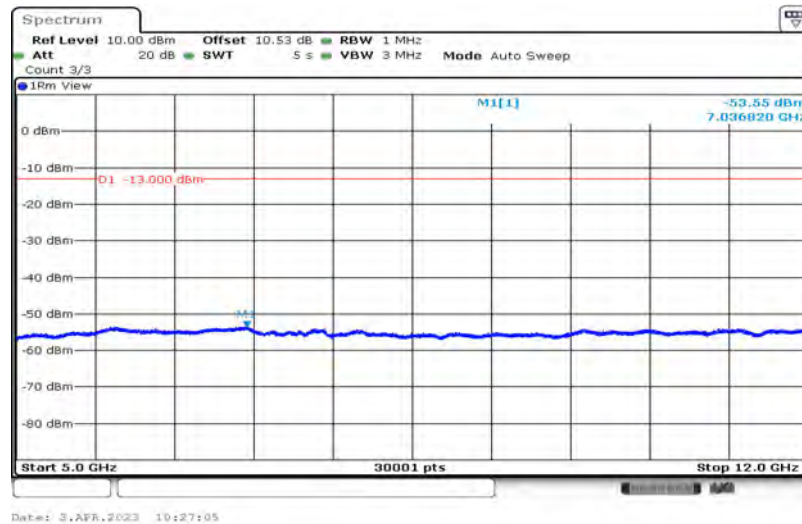
Band85-10MHz-16QAM-134052-1-0-Low-30-1000--34.91-PASS



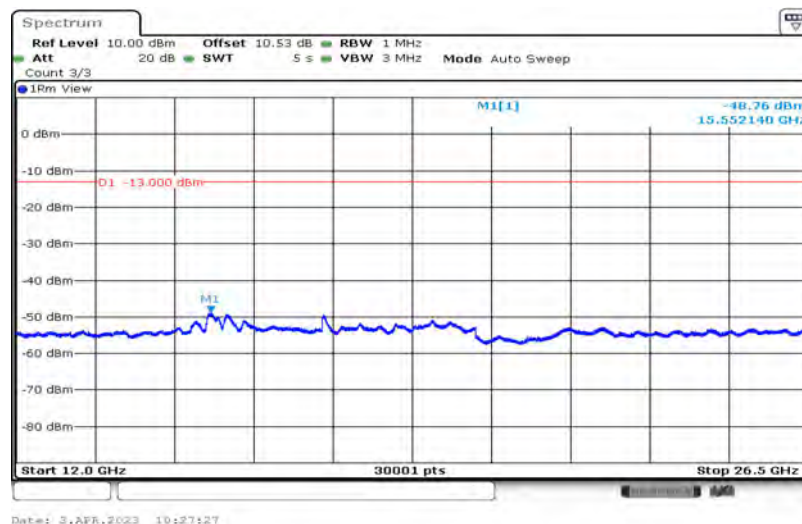
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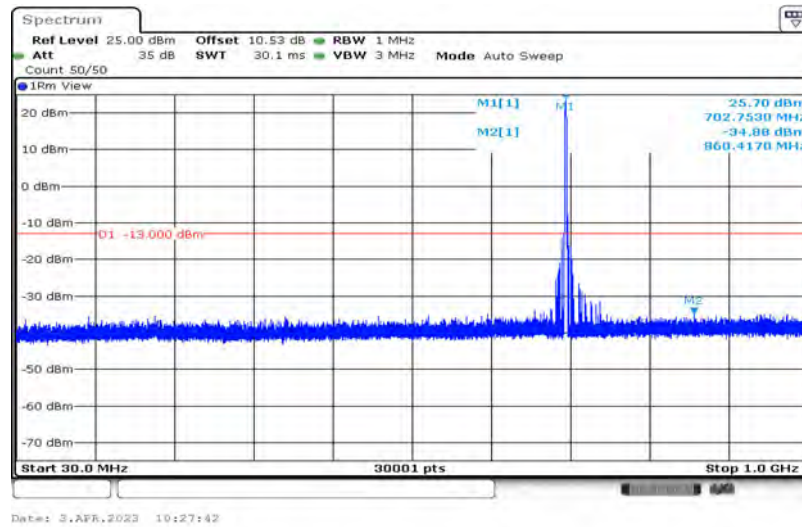
Band85-10MHz-16QAM-134052-1-0-Low-5000-12000--53.55-PASS



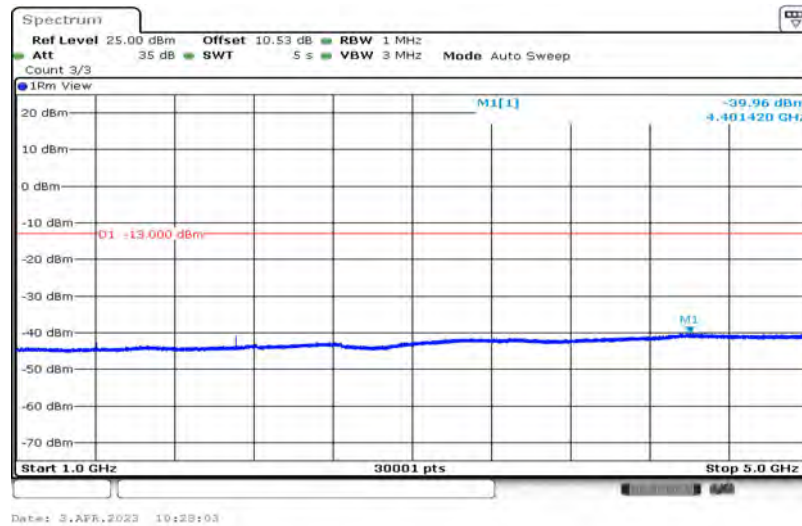
Band85-10MHz-16QAM-134052-1-0-Low-12000-26500--48.76-PASS



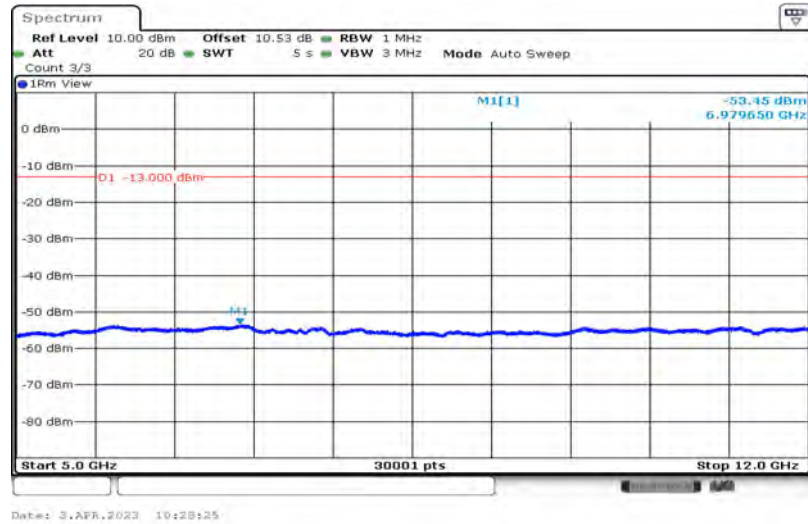
Band85-10MHz-QPSK-134092-1-0-Low-30-1000--34.88-PASS



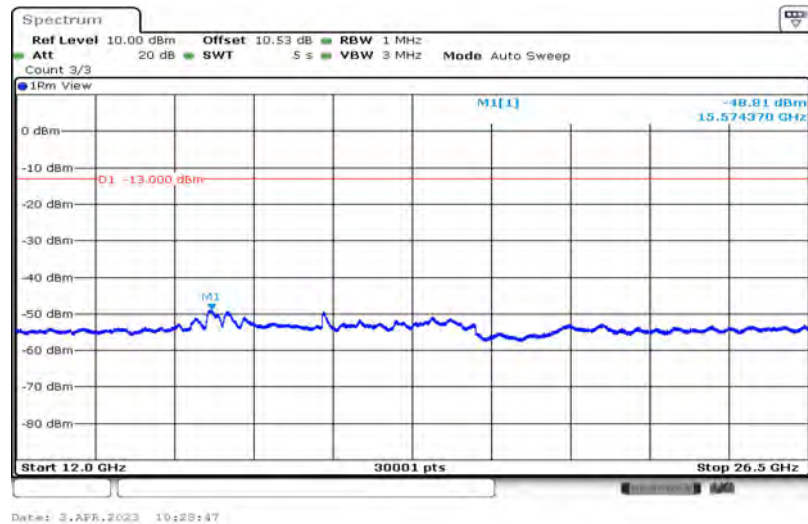
Band85-10MHz-QPSK-134092-1-0-Low-1000-5000--39.96-PASS



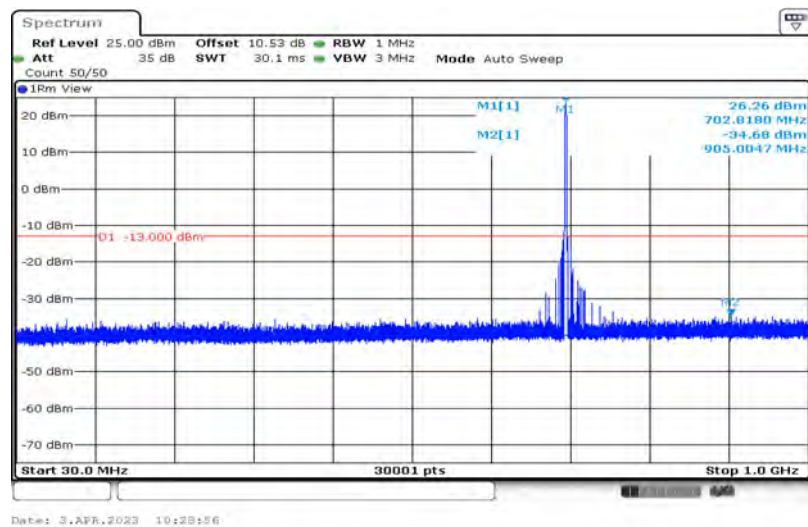
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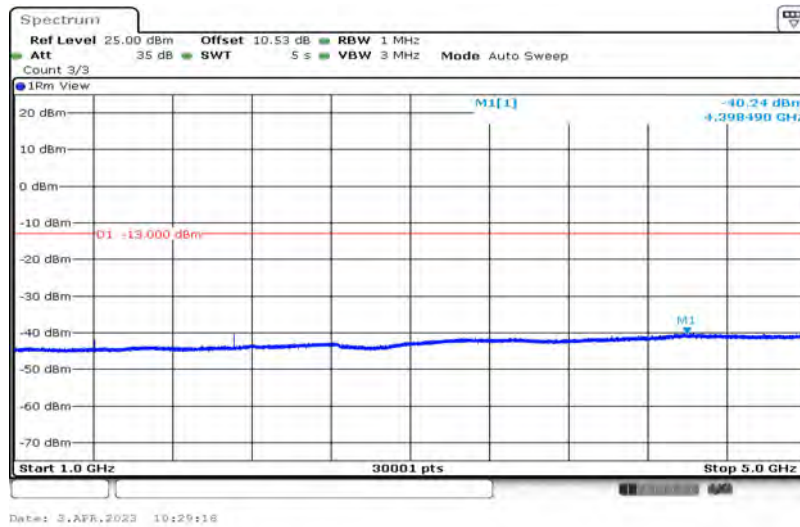
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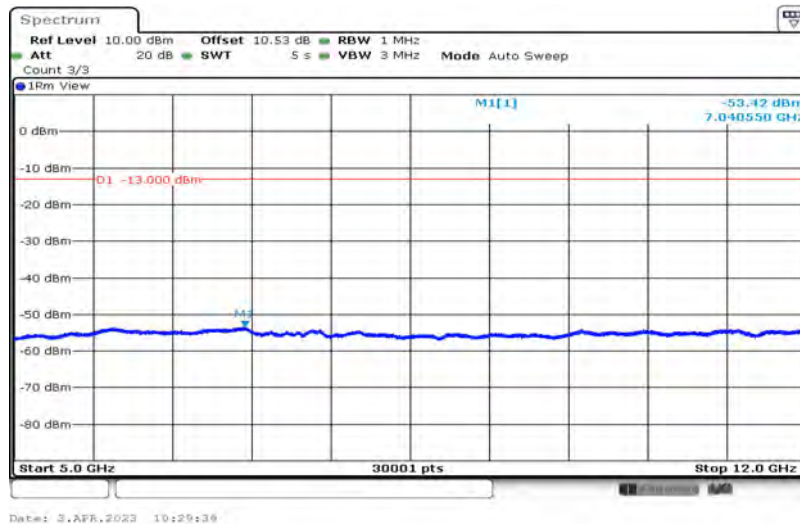
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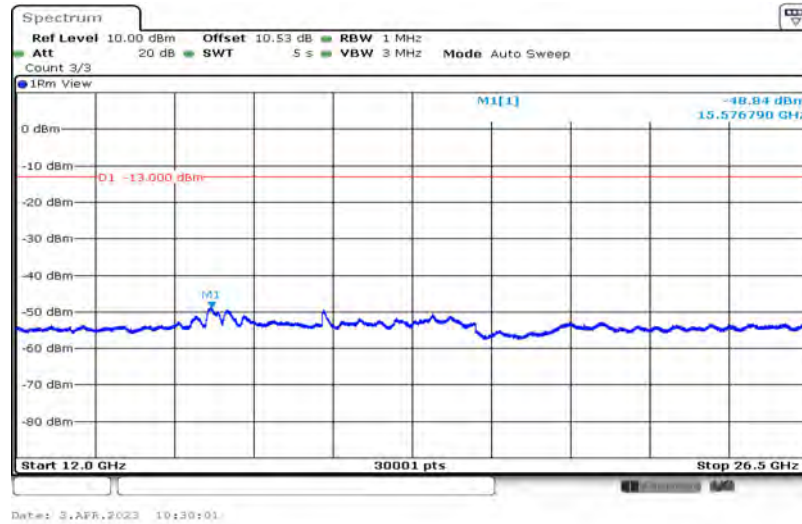
Band85-10MHz-16QAM-134092-1-0-Low-1000-5000--40.24-PASS



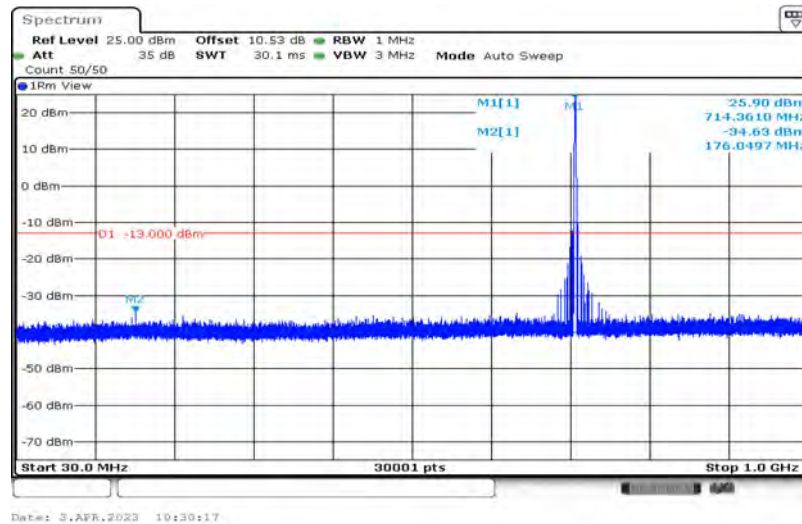
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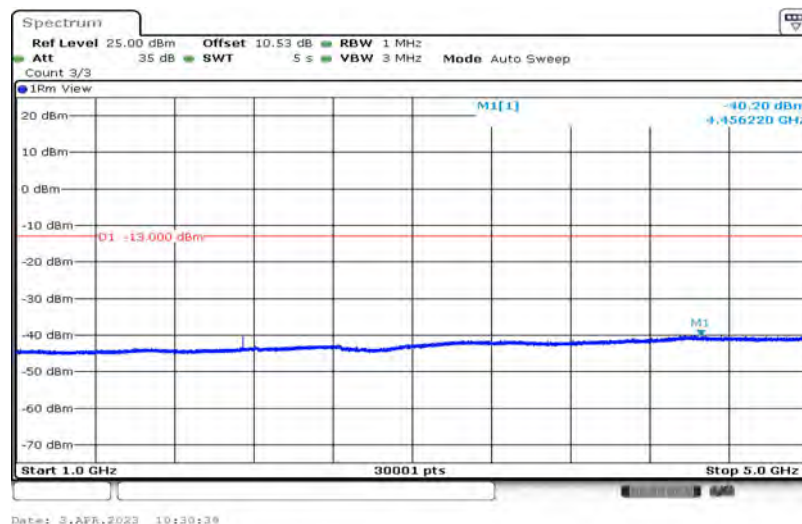
Band85-10MHz-16QAM-134092-1-0-Low-12000-26500--48.84-PASS



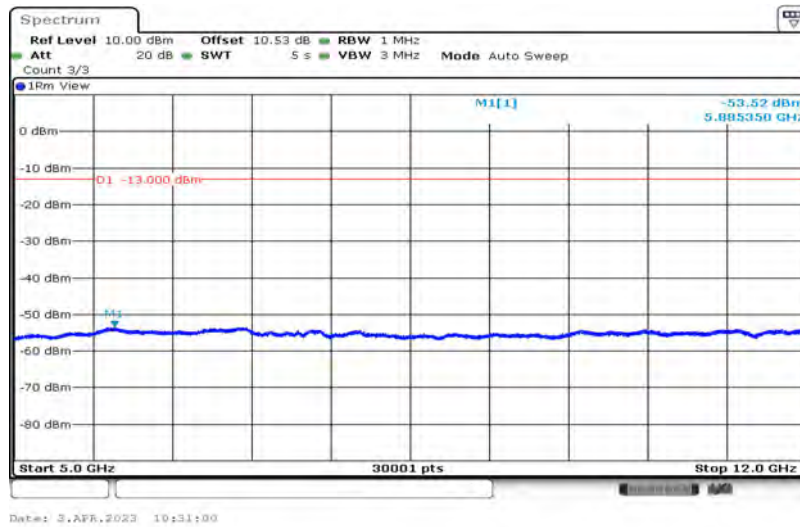
Band85-10MHz-QPSK-134132-1-0-High-30-1000--34.63-PASS



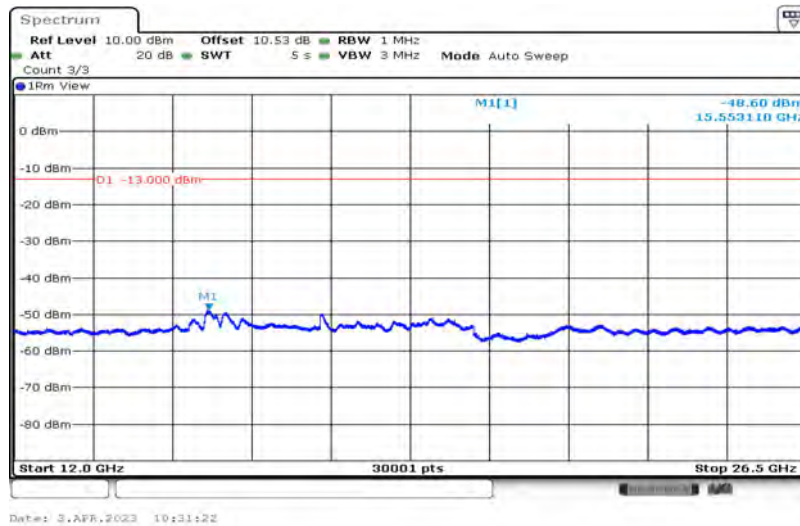
Band85-10MHz-QPSK-134132-1-0-High-1000-5000--40.2-PASS



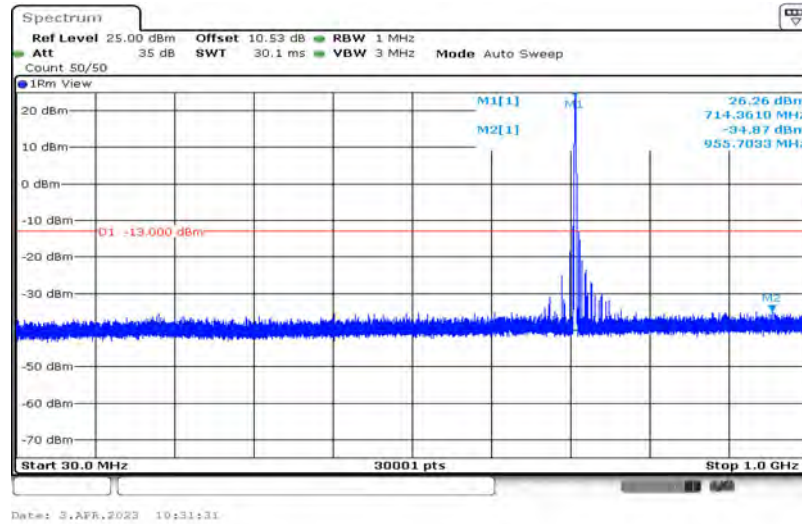
Band85-10MHz-QPSK-134132-1-0-High-5000-12000--53.52-PASS



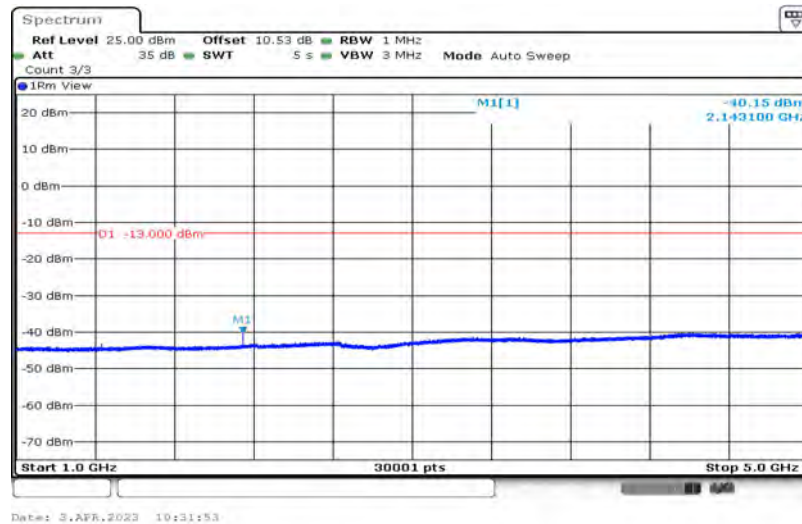
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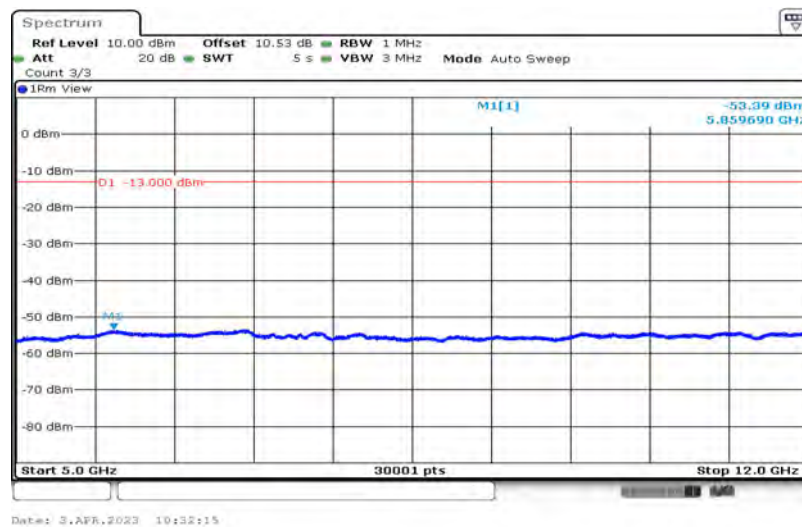
Band85-10MHz-16QAM-134132-1-0-High-30-1000--34.87-PASS



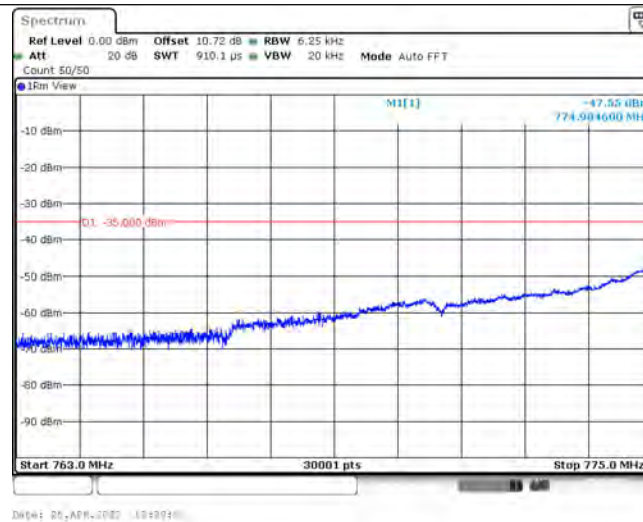
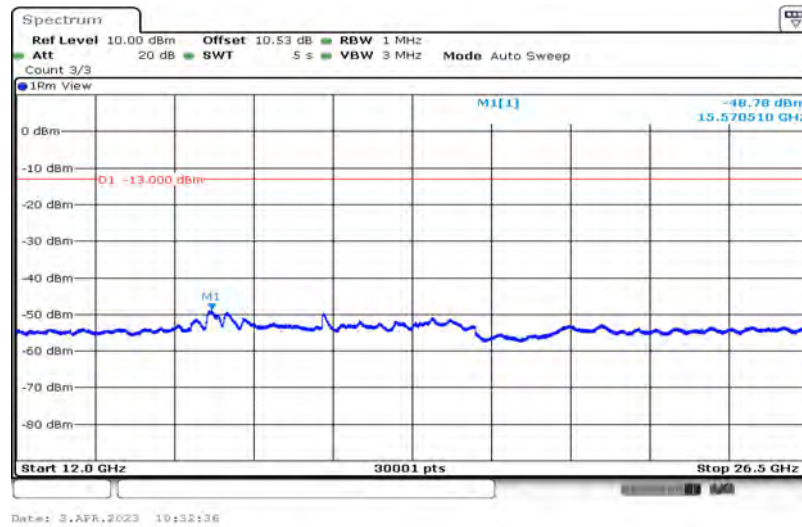
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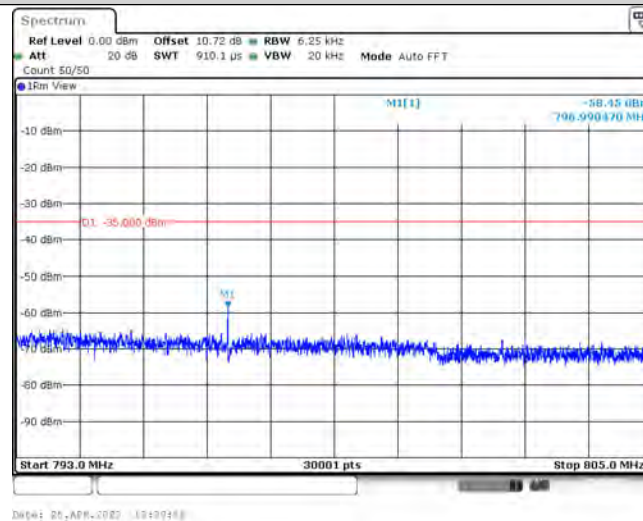
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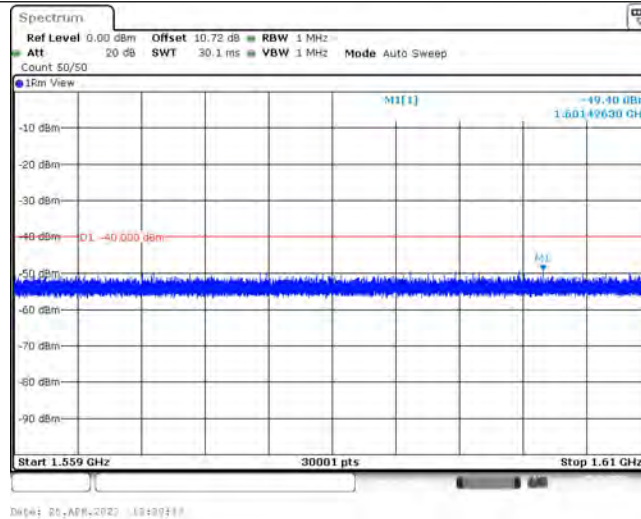
Band85-10MHz-16QAM-134132-1-0-High-12000-26500--48.78-PASS



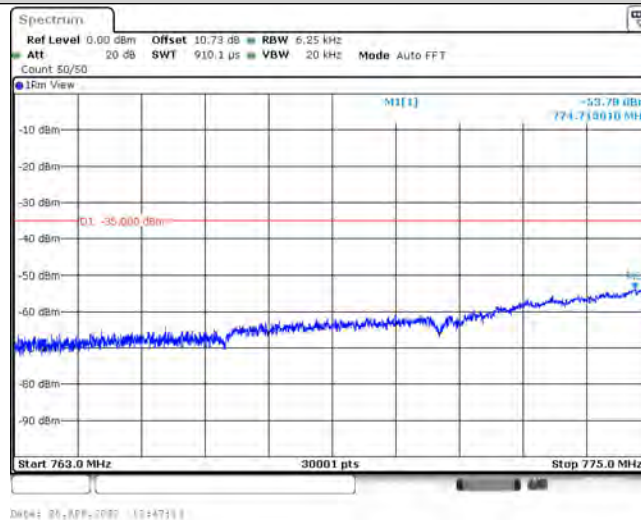
Band13-5MHz-QPSK-23205-1-0-Low-763-775--47.55-PASS



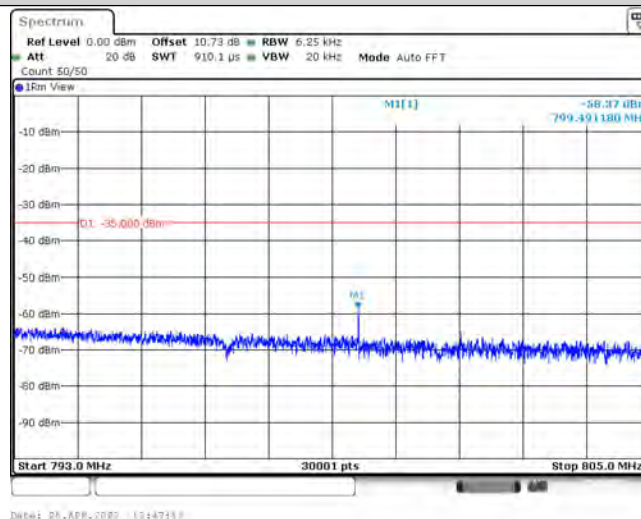
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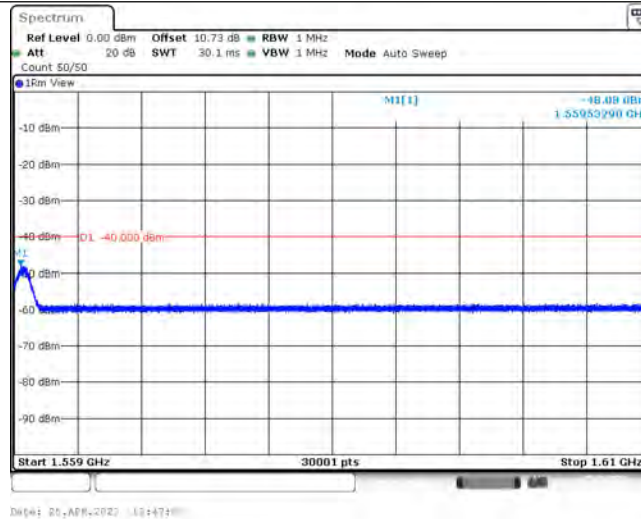
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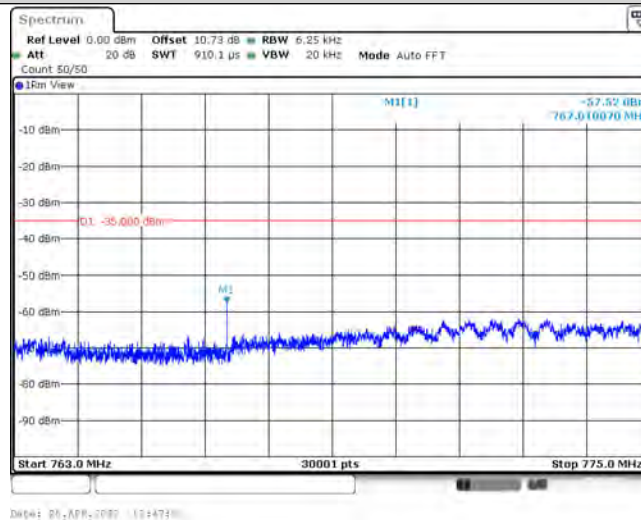
Band13-5MHz-QPSK-23230-1-0-Low-763-775--53.78-PASS



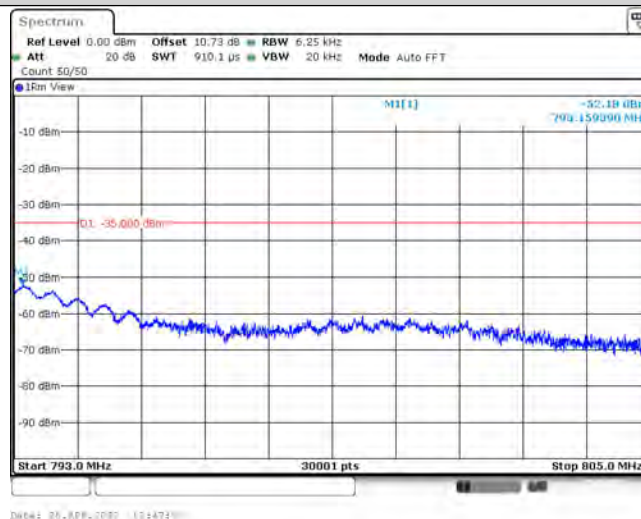
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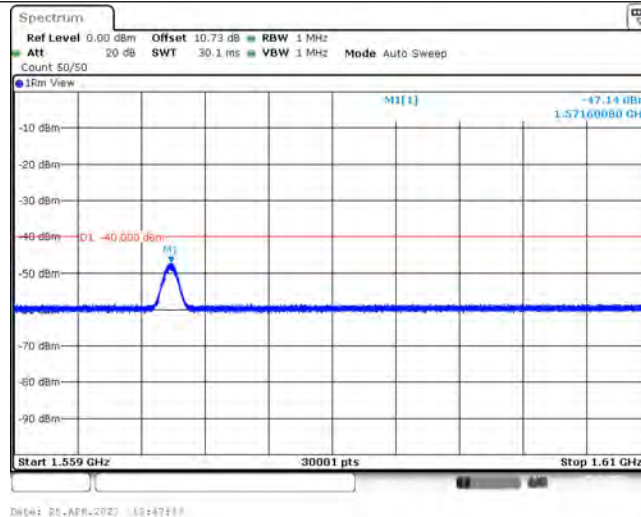
Band13-5MHz-QPSK-23230-1-0-Low-1559-1610--48.08-PASS



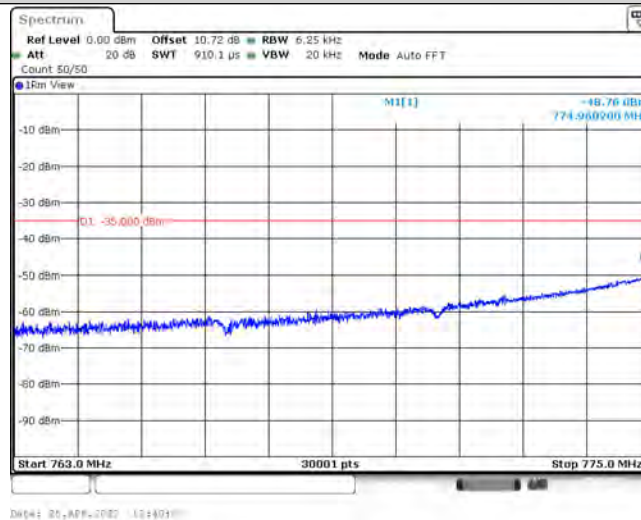
Band13-5MHz-QPSK-23255-1-0-High-763-775--57.52-PASS



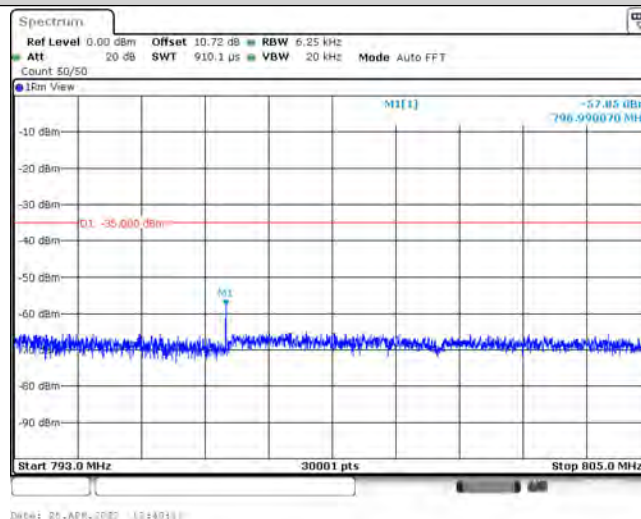
Band13-5MHz-QPSK-23255-1-0-High-793-805--52.18-PASS



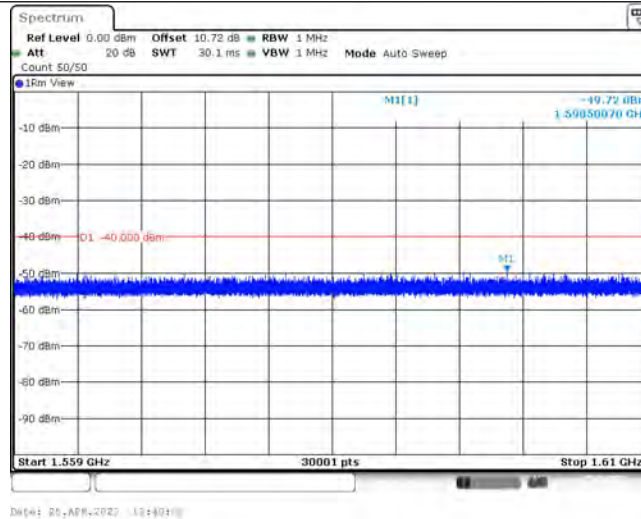
Band13-5MHz-QPSK-23255-1-0-High-1559-1610--47.14-PASS



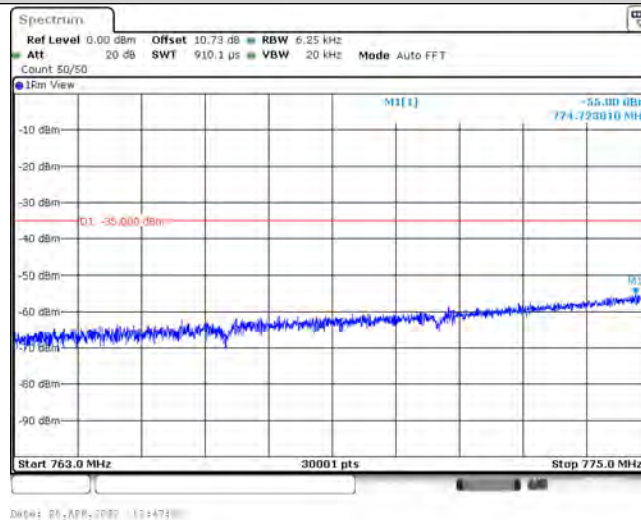
Band13-5MHz-16QAM-23205-1-0-Low-763-775--48.76-PASS



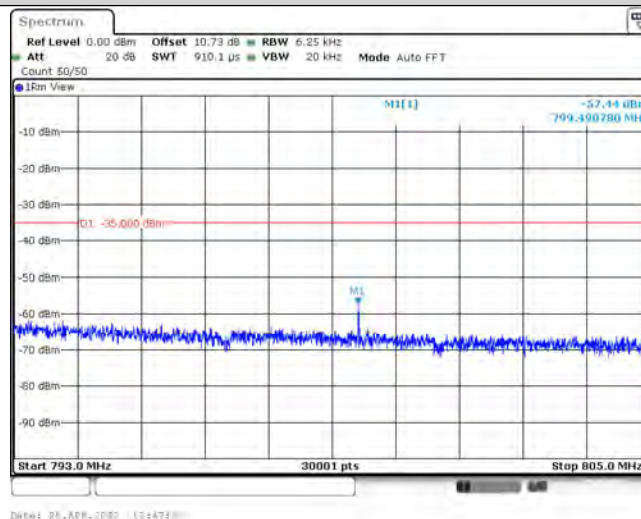
Band13-5MHz-16QAM-23205-1-0-Low-793-805--57.85-PASS



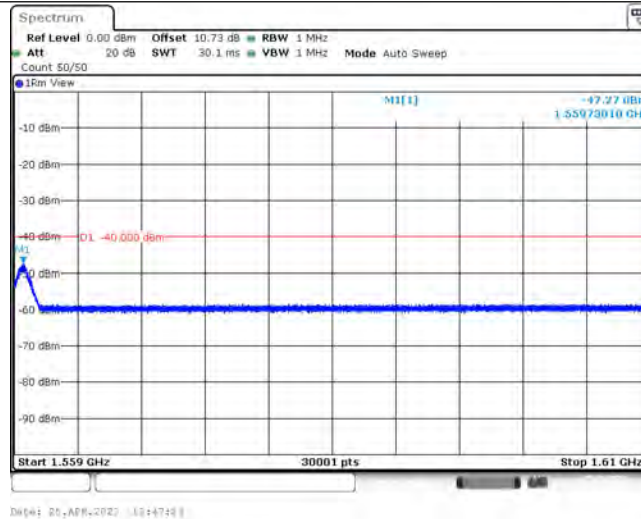
Band13-5MHz-16QAM-23205-1-0-Low-1559-1610--49.72-PASS



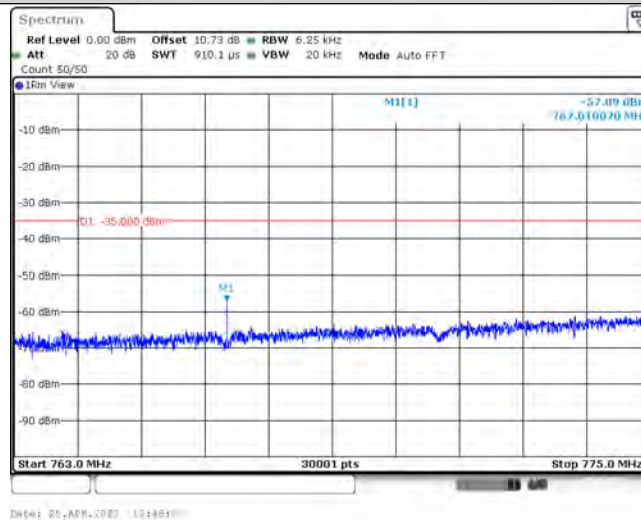
Band13-5MHz-16QAM-23230-1-0-Low-763-775--55-PASS



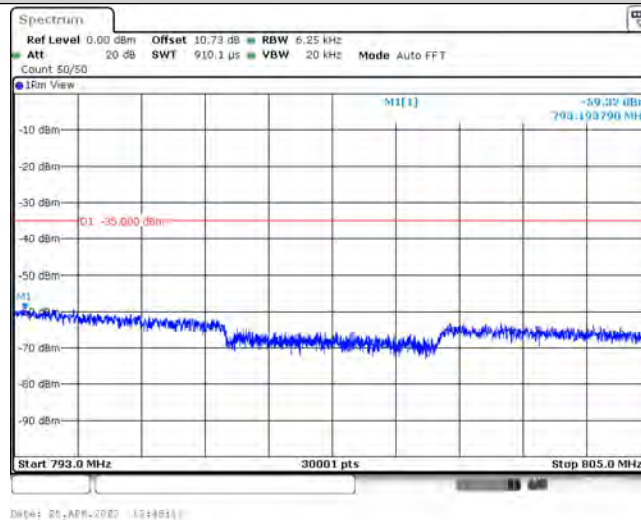
Band13-5MHz-16QAM-23230-1-0-Low-793-805--57.44-PASS



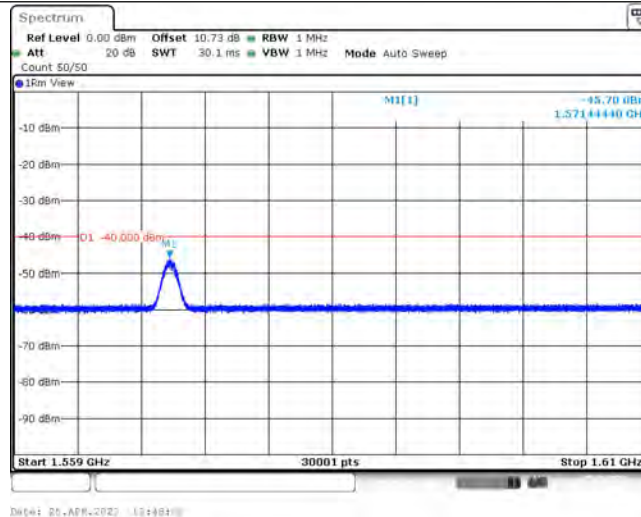
Band13-5MHz-16QAM-23230-1-0-Low-1559-1610--47.27-PASS



Band13-5MHz-16QAM-23255-1-0-High-763-775--57.09-PASS



Band13-5MHz-16QAM-23255-1-0-High-793-805--59.32-PASS



Band13-5MHz-16QAM-23255-1-0-High-1559-1610--45.7-PASS

4.7 Frequency Stability

4.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

FCC §22.355

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC §24.235 & §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.7.2 Test Condition

Temp. = -30° to $+50^{\circ}\text{C}$

Voltage = (85% - 115%)

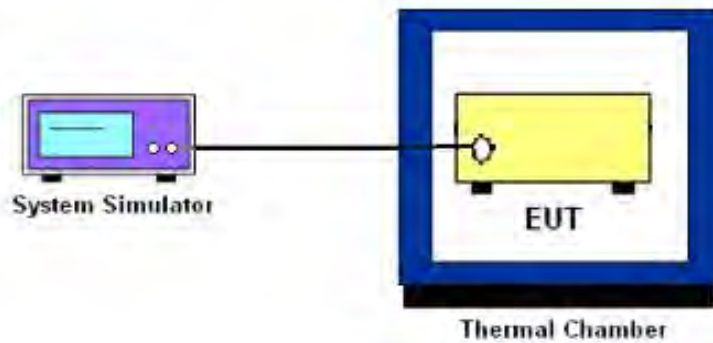
4.7.3 Test Procedures for Temperature Variation

- 1.The testing follows ANSI C63.26 section 5.6.4.
- 2.The EUT was set up in the thermal chamber and connected with the system simulator.
- 3.With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4.With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

4.7.4 Test Procedures for Voltage Variation

- 1.The testing follows ANSI C63.26 section 5.6.5.
- 2.The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
- 3.The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4.The variation in frequency was measured for the worst case.

4.7.5 Test Setup



4.7.6 Test Results

GSM

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VL	NT	30.28	0.036739	±2.5	PASS
GPRS850	128	VN	NT	25.70	0.031182	±2.5	PASS
GPRS850	128	VH	NT	27.70	0.033608	±2.5	PASS
GPRS850	190	VL	NT	21.08	0.025197	±2.5	PASS
GPRS850	190	VN	NT	27.64	0.033038	±2.5	PASS
GPRS850	190	VH	NT	21.47	0.025663	±2.5	PASS
GPRS850	251	VL	NT	23.31	0.027462	±2.5	PASS
GPRS850	251	VN	NT	20.28	0.023893	±2.5	PASS
GPRS850	251	VH	NT	23.67	0.027886	±2.5	PASS
EGPRS850	128	VL	NT	26.38	0.032007	±2.5	PASS
EGPRS850	128	VN	NT	24.60	0.029847	±2.5	PASS
EGPRS850	128	VH	NT	26.38	0.032007	±2.5	PASS
EGPRS850	190	VL	NT	15.17	0.018133	±2.5	PASS
EGPRS850	190	VN	NT	16.66	0.019914	±2.5	PASS
EGPRS850	190	VH	NT	18.27	0.021838	±2.5	PASS
EGPRS850	251	VL	NT	17.82	0.020994	±2.5	PASS

EGPRS850	251	VN	NT	18.56	0.021866	±2.5	PASS
EGPRS850	251	VH	NT	19.79	0.023315	±2.5	PASS
GPRS1900	512	VL	NT	28.02	0.015144	±2.5	PASS
GPRS1900	512	VN	NT	33.45	0.018079	±2.5	PASS
GPRS1900	512	VH	NT	25.25	0.013647	±2.5	PASS
GPRS1900	661	VL	NT	4.13	0.002197	±2.5	PASS
GPRS1900	661	VN	NT	18.69	0.009941	±2.5	PASS
GPRS1900	661	VH	NT	-2.91	-0.001548	±2.5	PASS
GPRS1900	810	VL	NT	16.56	0.008671	±2.5	PASS
GPRS1900	810	VN	NT	10.11	0.005294	±2.5	PASS
GPRS1900	810	VH	NT	18.53	0.009703	±2.5	PASS
EGPRS1900	512	VL	NT	20.15	0.010891	±2.5	PASS
EGPRS1900	512	VN	NT	30.51	0.016490	±2.5	PASS
EGPRS1900	512	VH	NT	25.60	0.013836	±2.5	PASS
EGPRS1900	661	VL	NT	1.84	0.000979	±2.5	PASS
EGPRS1900	661	VN	NT	16.50	0.008777	±2.5	PASS
EGPRS1900	661	VH	NT	2.23	0.001186	±2.5	PASS
EGPRS1900	810	VL	NT	7.88	0.004126	±2.5	PASS
EGPRS1900	810	VN	NT	-2.74	-0.001435	±2.5	PASS
EGPRS1900	810	VH	NT	15.17	0.007943	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	-30	30.06	0.036472	±2.5	PASS
GPRS850	128	NV	-20	24.44	0.029653	±2.5	PASS
GPRS850	128	NV	-10	23.31	0.028282	±2.5	PASS

GPRS850	128	NV	0	25.76	0.031255	±2.5	PASS
GPRS850	128	NV	10	26.31	0.031922	±2.5	PASS
GPRS850	128	NV	20	27.73	0.033645	±2.5	PASS
GPRS850	128	NV	30	24.67	0.029932	±2.5	PASS
GPRS850	128	NV	40	27.93	0.033887	±2.5	PASS
GPRS850	128	NV	50	21.99	0.026680	±2.5	PASS
GPRS850	190	NV	-30	22.83	0.027289	±2.5	PASS
GPRS850	190	NV	-20	25.51	0.030492	±2.5	PASS
GPRS850	190	NV	-10	26.09	0.031186	±2.5	PASS
GPRS850	190	NV	0	25.76	0.030791	±2.5	PASS
GPRS850	190	NV	10	25.67	0.030684	±2.5	PASS
GPRS850	190	NV	20	24.38	0.029142	±2.5	PASS
GPRS850	190	NV	30	20.89	0.024970	±2.5	PASS
GPRS850	190	NV	40	26.86	0.032106	±2.5	PASS
GPRS850	190	NV	50	22.79	0.027241	±2.5	PASS
GPRS850	251	NV	-30	27.09	0.031916	±2.5	PASS
GPRS850	251	NV	-20	22.31	0.026284	±2.5	PASS
GPRS850	251	NV	-10	26.89	0.031680	±2.5	PASS
GPRS850	251	NV	0	21.44	0.025259	±2.5	PASS
GPRS850	251	NV	10	24.44	0.028794	±2.5	PASS
GPRS850	251	NV	20	17.43	0.020535	±2.5	PASS
GPRS850	251	NV	30	20.57	0.024234	±2.5	PASS
GPRS850	251	NV	40	21.79	0.025672	±2.5	PASS
GPRS850	251	NV	50	24.18	0.028487	±2.5	PASS
EGPRS850	128	NV	-30	22.15	0.026875	±2.5	PASS
EGPRS850	128	NV	-20	25.44	0.030866	±2.5	PASS
EGPRS850	128	NV	-10	24.60	0.029847	±2.5	PASS
EGPRS850	128	NV	0	22.96	0.027857	±2.5	PASS
EGPRS850	128	NV	10	27.99	0.033960	±2.5	PASS
EGPRS850	128	NV	20	28.57	0.034664	±2.5	PASS
EGPRS850	128	NV	30	15.72	0.019073	±2.5	PASS

0							
EGPRS85 0	128	NV	40	12.33	0.014960	±2.5	PASS
EGPRS85 0	128	NV	50	15.43	0.018721	±2.5	PASS
EGPRS85 0	190	NV	-30	20.82	0.024886	±2.5	PASS
EGPRS85 0	190	NV	-20	18.40	0.021994	±2.5	PASS
EGPRS85 0	190	NV	-10	18.92	0.022615	±2.5	PASS
EGPRS85 0	190	NV	0	23.34	0.027899	±2.5	PASS
EGPRS85 0	190	NV	10	18.14	0.021683	±2.5	PASS
EGPRS85 0	190	NV	20	17.53	0.020954	±2.5	PASS
EGPRS85 0	190	NV	30	25.86	0.030911	±2.5	PASS
EGPRS85 0	190	NV	40	18.02	0.021540	±2.5	PASS
EGPRS85 0	190	NV	50	17.95	0.021456	±2.5	PASS
EGPRS85 0	251	NV	-30	16.63	0.019592	±2.5	PASS
EGPRS85 0	251	NV	-20	15.43	0.018179	±2.5	PASS
EGPRS85 0	251	NV	-10	22.83	0.026897	±2.5	PASS
EGPRS85 0	251	NV	0	19.63	0.023127	±2.5	PASS
EGPRS85 0	251	NV	10	22.12	0.026060	±2.5	PASS
EGPRS85 0	251	NV	20	21.44	0.025259	±2.5	PASS
EGPRS85 0	251	NV	30	21.57	0.025412	±2.5	PASS

EGPRS85 0	251	NV	40	21.08	0.024835	±2.5	PASS
EGPRS85 0	251	NV	50	22.12	0.026060	±2.5	PASS
GPRS1900	512	NV	-30	22.79	0.012318	±2.5	PASS
GPRS1900	512	NV	-20	24.73	0.013366	±2.5	PASS
GPRS1900	512	NV	-10	17.24	0.009318	±2.5	PASS
GPRS1900	512	NV	0	20.50	0.011080	±2.5	PASS
GPRS1900	512	NV	10	30.06	0.016247	±2.5	PASS
GPRS1900	512	NV	20	18.69	0.010102	±2.5	PASS
GPRS1900	512	NV	30	13.72	0.007415	±2.5	PASS
GPRS1900	512	NV	40	26.31	0.014220	±2.5	PASS
GPRS1900	512	NV	50	14.75	0.007972	±2.5	PASS
GPRS1900	661	NV	-30	15.72	0.008362	±2.5	PASS
GPRS1900	661	NV	-20	-3.71	-0.001973	±2.5	PASS
GPRS1900	661	NV	-10	12.07	0.006420	±2.5	PASS
GPRS1900	661	NV	0	9.07	0.004824	±2.5	PASS
GPRS1900	661	NV	10	0.81	0.000431	±2.5	PASS
GPRS1900	661	NV	20	12.17	0.006473	±2.5	PASS
GPRS1900	661	NV	30	2.26	0.001202	±2.5	PASS
GPRS1900	661	NV	40	9.49	0.005048	±2.5	PASS
GPRS1900	661	NV	50	-1.81	-0.000963	±2.5	PASS
GPRS1900	810	NV	-30	8.59	0.004498	±2.5	PASS
GPRS1900	810	NV	-20	16.79	0.008791	±2.5	PASS
GPRS1900	810	NV	-10	6.49	0.003398	±2.5	PASS
GPRS1900	810	NV	0	14.04	0.007352	±2.5	PASS
GPRS1900	810	NV	10	20.34	0.010650	±2.5	PASS
GPRS1900	810	NV	20	6.04	0.003163	±2.5	PASS
GPRS1900	810	NV	30	10.17	0.005325	±2.5	PASS
GPRS1900	810	NV	40	12.62	0.006608	±2.5	PASS
GPRS1900	810	NV	50	15.92	0.008336	±2.5	PASS
EGPRS19 00	512	NV	-30	29.38	0.015879	±2.5	PASS
EGPRS19 00	512	NV	-20	19.53	0.010556	±2.5	PASS
EGPRS19 00	512	NV	-10	23.02	0.012442	±2.5	PASS

EGPRS19 00	512	NV	0	18.18	0.009826	±2.5	PASS
EGPRS19 00	512	NV	10	28.02	0.015144	±2.5	PASS
EGPRS19 00	512	NV	20	14.75	0.007972	±2.5	PASS
EGPRS19 00	512	NV	30	14.17	0.007659	±2.5	PASS
EGPRS19 00	512	NV	40	26.51	0.014328	±2.5	PASS
EGPRS19 00	512	NV	50	23.63	0.012772	±2.5	PASS
EGPRS19 00	661	NV	-30	9.01	0.004793	±2.5	PASS
EGPRS19 00	661	NV	-20	15.72	0.008362	±2.5	PASS
EGPRS19 00	661	NV	-10	3.87	0.002059	±2.5	PASS
EGPRS19 00	661	NV	0	6.36	0.003383	±2.5	PASS
EGPRS19 00	661	NV	10	8.78	0.004670	±2.5	PASS
EGPRS19 00	661	NV	20	10.11	0.005378	±2.5	PASS
EGPRS19 00	661	NV	30	8.72	0.004638	±2.5	PASS
EGPRS19 00	661	NV	40	4.55	0.002420	±2.5	PASS
EGPRS19 00	661	NV	50	2.00	0.001064	±2.5	PASS
EGPRS19 00	810	NV	-30	12.69	0.006645	±2.5	PASS
EGPRS19 00	810	NV	-20	11.04	0.005781	±2.5	PASS
EGPRS19 00	810	NV	-10	7.59	0.003974	±2.5	PASS
EGPRS19	810	NV	0	21.08	0.011038	±2.5	PASS

00							
EGPRS19 00	810	NV	10	17.31	0.009064	±2.5	PASS
EGPRS19 00	810	NV	20	13.66	0.007153	±2.5	PASS
EGPRS19 00	810	NV	30	4.55	0.002382	±2.5	PASS
EGPRS19 00	810	NV	40	16.21	0.008488	±2.5	PASS
EGPRS19 00	810	NV	50	7.20	0.003770	±2.5	PASS

LTE Cat M1

		Voltage										
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 2	1.4MHz	18607	QPSK	6	0	Low	VL	NT	-44.89	-0.024256	±2.5	PASS
Band 2	1.4MHz	18607	QPSK	6	0	Low	VH	NT	-42.34	-0.022878	±2.5	PASS
Band 2	1.4MHz	18607	QPSK	6	0	Low	VN	NT	-43.90	-0.023721	±2.5	PASS
Band 2	1.4MHz	18607	16QAM	6	0	Low	VN	NT	-45.91	-0.024807	±2.5	PASS
Band 2	1.4MHz	18607	16QAM	6	0	Low	VL	NT	-20.93	-0.011309	±2.5	PASS
Band 2	1.4MHz	18607	16QAM	6	0	Low	VH	NT	-19.96	-0.010785	±2.5	PASS
Band 2	1.4MHz	18900	QPSK	6	0	Low	VN	NT	-16.34	-0.008691	±2.5	PASS
Band 2	1.4MHz	18900	QPSK	6	0	Low	VL	NT	-14.88	-0.007915	±2.5	PASS
Band 2	1.4MHz	18900	QPSK	6	0	Low	VH	NT	15.42	0.008202	±2.5	PASS
Band 2	1.4MHz	18900	16QAM	6	0	Low	VL	NT	-12.45	-0.006622	±2.5	PASS
Band 2	1.4MHz	18900	16QAM	6	0	Low	VH	NT	-16.69	-0.0088	±2.5	PASS

2	z		M			w				78		S
Band 2	1.4MH z	18900	16QA M	6	0	Lo w	VN	NT	-15.45	-0.0082 18	±2.5	PAS S
Band 2	1.4MH z	19193	QPS K	6	0	Hig h	VL	NT	-10.49	-0.0054 94	±2.5	PAS S
Band 2	1.4MH z	19193	QPS K	6	0	Hig h	VH	NT	-9.58	-0.0050 18	±2.5	PAS S
Band 2	1.4MH z	19193	QPS K	6	0	Hig h	VN	NT	-28.81	-0.0150 89	±2.5	PAS S
Band 2	1.4MH z	19193	16QA M	6	0	Hig h	VN	NT	-11.40	-0.0059 71	±2.5	PAS S
Band 2	1.4MH z	19193	16QA M	6	0	Hig h	VL	NT	-31.54	-0.0165 19	±2.5	PAS S
Band 2	1.4MH z	19193	16QA M	6	0	Hig h	VH	NT	-13.62	-0.0071 34	±2.5	PAS S
Band 2	3MHz	18615	QPS K	6	0	Lo w	VN	NT	-14.22	-0.0076 80	±2.5	PAS S
Band 2	3MHz	18615	QPS K	6	0	Lo w	VL	NT	12.67	0.0068 43	±2.5	PAS S
Band 2	3MHz	18615	QPS K	6	0	Lo w	VH	NT	-11.16	-0.0060 28	±2.5	PAS S
Band 2	3MHz	18615	16QA M	6	0	Lo w	VL	NT	-12.62	-0.0068 16	±2.5	PAS S
Band 2	3MHz	18615	16QA M	6	0	Lo w	VH	NT	-16.19	-0.0087 44	±2.5	PAS S
Band 2	3MHz	18615	16QA M	6	0	Lo w	VN	NT	-12.40	-0.0066 97	±2.5	PAS S
Band 2	3MHz	18900	QPS K	6	0	Lo w	VL	NT	-12.55	-0.0066 76	±2.5	PAS S
Band 2	3MHz	18900	QPS K	6	0	Lo w	VH	NT	-14.45	-0.0076 86	±2.5	PAS S
Band 2	3MHz	18900	QPS K	6	0	Lo w	VN	NT	9.53	0.0050 69	±2.5	PAS S
Band 2	3MHz	18900	16QA M	6	0	Lo w	VN	NT	13.72	0.0072 98	±2.5	PAS S
Band 2	3MHz	18900	16QA M	6	0	Lo w	VL	NT	11.63	0.0061 86	±2.5	PAS S

Band 2	3MHz	18900	16QAM	6	0	Low	VH	NT	11.00	0.005851	±2.5	PASS
Band 2	3MHz	19185	QPSK	6	0	High	VN	NT	-8.15	-0.004270	±2.5	PASS
Band 2	3MHz	19185	QPSK	6	0	High	VL	NT	-20.43	-0.010705	±2.5	PASS
Band 2	3MHz	19185	QPSK	6	0	High	VH	NT	-20.00	-0.010479	±2.5	PASS
Band 2	3MHz	19185	16QAM	6	0	High	VL	NT	8.28	0.004338	±2.5	PASS
Band 2	3MHz	19185	16QAM	6	0	High	VH	NT	6.15	0.003222	±2.5	PASS
Band 2	3MHz	19185	16QAM	6	0	High	VN	NT	5.19	0.002719	±2.5	PASS
Band 2	5MHz	18625	QPSK	6	0	Low	VL	NT	-10.54	-0.005690	±2.5	PASS
Band 2	5MHz	18625	QPSK	6	0	Low	VH	NT	-9.97	-0.005382	±2.5	PASS
Band 2	5MHz	18625	QPSK	6	0	Low	VN	NT	-9.83	-0.005306	±2.5	PASS
Band 2	5MHz	18625	16QAM	6	0	Low	VN	NT	-8.94	-0.004826	±2.5	PASS
Band 2	5MHz	18625	16QAM	6	0	Low	VL	NT	-9.20	-0.004966	±2.5	PASS
Band 2	5MHz	18625	16QAM	6	0	Low	VH	NT	-10.67	-0.005760	±2.5	PASS
Band 2	5MHz	18900	QPSK	6	0	Low	VN	NT	11.23	0.005973	±2.5	PASS
Band 2	5MHz	18900	QPSK	6	0	Low	VL	NT	8.23	0.004378	±2.5	PASS
Band 2	5MHz	18900	QPSK	6	0	Low	VH	NT	8.08	0.004298	±2.5	PASS
Band 2	5MHz	18900	16QAM	6	0	Low	VL	NT	12.89	0.006856	±2.5	PASS
Band 2	5MHz	18900	16QAM	6	0	Low	VH	NT	11.69	0.006218	±2.5	PASS
Band 2	5MHz	18900	16QAM	6	0	Low	VN	NT	12.47	0.0066	±2.5	PASS

2			M			w				33		S
Band 2	5MHz	19175	QPSK	6	0	High	VL	NT	4.65	0.002438	±2.5	PASS
Band 2	5MHz	19175	QPSK	6	0	High	VH	NT	-3.79	-0.001987	±2.5	PASS
Band 2	5MHz	19175	QPSK	6	0	High	VN	NT	-5.39	-0.002826	±2.5	PASS
Band 2	5MHz	19175	16QAM	6	0	High	VN	NT	-7.22	-0.003785	±2.5	PASS
Band 2	5MHz	19175	16QAM	6	0	High	VL	NT	5.61	0.002941	±2.5	PASS
Band 2	5MHz	19175	16QAM	6	0	High	VH	NT	-4.59	-0.002406	±2.5	PASS
Band 2	10MHz	18650	QPSK	6	0	Low	VN	NT	11.37	0.006129	±2.5	PASS
Band 2	10MHz	18650	QPSK	6	0	Low	VL	NT	11.40	0.006146	±2.5	PASS
Band 2	10MHz	18650	QPSK	6	0	Low	VH	NT	11.22	0.006049	±2.5	PASS
Band 2	10MHz	18650	16QAM	6	0	Low	VL	NT	14.46	0.007795	±2.5	PASS
Band 2	10MHz	18650	16QAM	6	0	Low	VH	NT	9.67	0.005213	±2.5	PASS
Band 2	10MHz	18650	16QAM	6	0	Low	VN	NT	12.10	0.006523	±2.5	PASS
Band 2	10MHz	18900	QPSK	6	0	Low	VL	NT	17.17	0.009133	±2.5	PASS
Band 2	10MHz	18900	QPSK	6	0	Low	VH	NT	18.95	0.010080	±2.5	PASS
Band 2	10MHz	18900	QPSK	6	0	Low	VN	NT	15.45	0.008218	±2.5	PASS
Band 2	10MHz	18900	16QAM	6	0	Low	VN	NT	17.58	0.009351	±2.5	PASS
Band 2	10MHz	18900	16QAM	6	0	Low	VL	NT	20.30	0.010798	±2.5	PASS
Band 2	10MHz	18900	16QAM	6	0	Low	VH	NT	17.92	0.009532	±2.5	PASS

Band 2	10MHz	19150	QPS K	6	0	Hig h	VN	NT	5.31	0.002787	±2.5	PAS S
Band 2	10MHz	19150	QPS K	6	0	Hig h	VL	NT	5.44	0.002856	±2.5	PAS S
Band 2	10MHz	19150	QPS K	6	0	Hig h	VH	NT	4.68	0.002457	±2.5	PAS S
Band 2	10MHz	19150	16QA M	6	0	Hig h	VL	NT	-9.20	-0.004829	±2.5	PAS S
Band 2	10MHz	19150	16QA M	6	0	Hig h	VH	NT	5.55	0.002913	±2.5	PAS S
Band 2	10MHz	19150	16QA M	6	0	Hig h	VN	NT	5.25	0.002756	±2.5	PAS S
Band 2	15MHz	18675	QPS K	6	0	Lo w	VL	NT	8.91	0.004797	±2.5	PAS S
Band 2	15MHz	18675	QPS K	6	0	Lo w	VH	NT	9.11	0.004904	±2.5	PAS S
Band 2	15MHz	18675	QPS K	6	0	Lo w	VN	NT	10.61	0.005712	±2.5	PAS S
Band 2	15MHz	18675	16QA M	6	0	Lo w	VN	NT	9.88	0.005319	±2.5	PAS S
Band 2	15MHz	18675	16QA M	6	0	Lo w	VL	NT	11.03	0.005938	±2.5	PAS S
Band 2	15MHz	18675	16QA M	6	0	Lo w	VH	NT	9.31	0.005012	±2.5	PAS S
Band 2	15MHz	18900	QPS K	6	0	Lo w	VN	NT	8.10	0.004309	±2.5	PAS S
Band 2	15MHz	18900	QPS K	6	0	Lo w	VL	NT	11.30	0.006011	±2.5	PAS S
Band 2	15MHz	18900	QPS K	6	0	Lo w	VH	NT	10.84	0.005766	±2.5	PAS S
Band 2	15MHz	18900	16QA M	6	0	Lo w	VL	NT	10.23	0.005441	±2.5	PAS S
Band 2	15MHz	18900	16QA M	6	0	Lo w	VH	NT	10.29	0.005473	±2.5	PAS S
Band 2	15MHz	18900	16QA M	6	0	Lo w	VN	NT	9.04	0.004809	±2.5	PAS S
Band	15MHz	19125	QPS	6	0	Hig	VL	NT	6.77	0.0035	±2.5	PAS

2			K			h				58		S
Band 2	15MHz	19125	QPS K	6	0	Hig h	VH	NT	8.78	0.0046 15	±2.5	PAS S
Band 2	15MHz	19125	QPS K	6	0	Hig h	VN	NT	6.12	0.0032 17	±2.5	PAS S
Band 2	15MHz	19125	16QA M	6	0	Hig h	VN	NT	9.88	0.0051 93	±2.5	PAS S
Band 2	15MHz	19125	16QA M	6	0	Hig h	VL	NT	9.33	0.0049 04	±2.5	PAS S
Band 2	15MHz	19125	16QA M	6	0	Hig h	VH	NT	9.67	0.0050 83	±2.5	PAS S
Band 2	20MHz	18700	QPS K	6	0	Lo w	VN	NT	-14.93	-0.0080 27	±2.5	PAS S
Band 2	20MHz	18700	QPS K	6	0	Lo w	VL	NT	-17.92	-0.0096 34	±2.5	PAS S
Band 2	20MHz	18700	QPS K	6	0	Lo w	VH	NT	-21.06	-0.0113 23	±2.5	PAS S
Band 2	20MHz	18700	16QA M	6	0	Lo w	VL	NT	-16.04	-0.0086 24	±2.5	PAS S
Band 2	20MHz	18700	16QA M	6	0	Lo w	VH	NT	-17.81	-0.0095 75	±2.5	PAS S
Band 2	20MHz	18700	16QA M	6	0	Lo w	VN	NT	-16.22	-0.0087 20	±2.5	PAS S
Band 2	20MHz	18900	QPS K	6	0	Lo w	VL	NT	9.23	0.0049 10	±2.5	PAS S
Band 2	20MHz	18900	QPS K	6	0	Lo w	VH	NT	9.70	0.0051 60	±2.5	PAS S
Band 2	20MHz	18900	QPS K	6	0	Lo w	VN	NT	6.17	0.0032 82	±2.5	PAS S
Band 2	20MHz	18900	16QA M	6	0	Lo w	VN	NT	5.66	0.0030 11	±2.5	PAS S
Band 2	20MHz	18900	16QA M	6	0	Lo w	VL	NT	8.64	0.0045 96	±2.5	PAS S
Band 2	20MHz	18900	16QA M	6	0	Lo w	VH	NT	7.00	0.0037 23	±2.5	PAS S
Band 2	20MHz	19100	QPS K	6	0	Hig h	VN	NT	-4.36	-0.0022 95	±2.5	PAS S

Band 2	20MHz	19100	QPS K	6	0	Hig h	VL	NT	-5.38	-0.0028 32	±2.5	PAS S
Band 2	20MHz	19100	QPS K	6	0	Hig h	VH	NT	3.96	0.0020 84	±2.5	PAS S
Band 2	20MHz	19100	16QA M	6	0	Hig h	VN	NT	-7.78	-0.0040 95	±2.5	PAS S
Band 2	20MHz	19100	16QA M	6	0	Hig h	VL	NT	-3.69	-0.0019 42	±2.5	PAS S
Band 2	20MHz	19100	16QA M	6	0	Hig h	VH	NT	-6.39	-0.0033 63	±2.5	PAS S
Band 4	1.4MHz	19957	QPS K	6	0	Lo w	VN	NT	-27.65	-0.0161 63	±2.5	PAS S
Band 4	1.4MHz	19957	QPS K	6	0	Lo w	VL	NT	-70.32	-0.0411 06	±2.5	PAS S
Band 4	1.4MHz	19957	QPS K	6	0	Lo w	VH	NT	-74.09	-0.0433 10	±2.5	PAS S
Band 4	1.4MHz	19957	16QA M	6	0	Lo w	VN	NT	-28.58	-0.0167 07	±2.5	PAS S
Band 4	1.4MHz	19957	16QA M	6	0	Lo w	VL	NT	-25.53	-0.0149 24	±2.5	PAS S
Band 4	1.4MHz	19957	16QA M	6	0	Lo w	VH	NT	-75.43	-0.0440 93	±2.5	PAS S
Band 4	1.4MHz	20175	QPS K	6	0	Lo w	VN	NT	-13.18	-0.0076 08	±2.5	PAS S
Band 4	1.4MHz	20175	QPS K	6	0	Lo w	VL	NT	8.34	0.0048 14	±2.5	PAS S
Band 4	1.4MHz	20175	QPS K	6	0	Lo w	VH	NT	5.69	0.0032 84	±2.5	PAS S
Band 4	1.4MHz	20175	16QA M	6	0	Lo w	VN	NT	-3.03	-0.0017 49	±2.5	PAS S
Band 4	1.4MHz	20175	16QA M	6	0	Lo w	VH	NT	6.35	0.0036 65	±2.5	PAS S
Band 4	1.4MHz	20175	16QA M	6	0	Lo w	VL	NT	-13.16	-0.0075 96	±2.5	PAS S
Band 4	1.4MHz	20393	QPS K	6	0	Hig h	VN	NT	-16.95	-0.0096 62	±2.5	PAS S
Band 4	1.4MHz	20393	QPS K	6	0	Hig h	VL	NT	-18.20	-0.0103	±2.5	PAS S

4	z		K			h				75		S
Band 4	1.4MH z	20393	QPS K	6	0	Hig h	VH	NT	-9.30	-0.0053 01	±2.5	PAS S
Band 4	1.4MH z	20393	16QA M	6	0	Hig h	VN	NT	-9.26	-0.0052 78	±2.5	PAS S
Band 4	1.4MH z	20393	16QA M	6	0	Hig h	VL	NT	-19.47	-0.0110 98	±2.5	PAS S
Band 4	1.4MH z	20393	16QA M	6	0	Hig h	VH	NT	-6.37	-0.0036 31	±2.5	PAS S
Band 4	3MHz	19965	QPS K	6	0	Lo w	VN	NT	-25.69	-0.0150 10	±2.5	PAS S
Band 4	3MHz	19965	QPS K	6	0	Lo w	VL	NT	-5.44	-0.0031 78	±2.5	PAS S
Band 4	3MHz	19965	QPS K	6	0	Lo w	VH	NT	-28.55	-0.0166 81	±2.5	PAS S
Band 4	3MHz	19965	16QA M	6	0	Lo w	VN	NT	-9.21	-0.0053 81	±2.5	PAS S
Band 4	3MHz	19965	16QA M	6	0	Lo w	VL	NT	-29.05	-0.0169 73	±2.5	PAS S
Band 4	3MHz	19965	16QA M	6	0	Lo w	VH	NT	-26.61	-0.0155 48	±2.5	PAS S
Band 4	3MHz	20175	QPS K	6	0	Lo w	VN	NT	5.82	0.0033 59	±2.5	PAS S
Band 4	3MHz	20175	QPS K	6	0	Lo w	VL	NT	7.37	0.0042 54	±2.5	PAS S
Band 4	3MHz	20175	QPS K	6	0	Lo w	VH	NT	9.27	0.0053 51	±2.5	PAS S
Band 4	3MHz	20175	16QA M	6	0	Lo w	VN	NT	9.37	0.0054 08	±2.5	PAS S
Band 4	3MHz	20175	16QA M	6	0	Lo w	VL	NT	6.69	0.0038 61	±2.5	PAS S
Band 4	3MHz	20175	16QA M	6	0	Lo w	VH	NT	7.25	0.0041 85	±2.5	PAS S
Band 4	3MHz	20385	QPS K	6	0	Hig h	VN	NT	-9.44	-0.0053 84	±2.5	PAS S
Band 4	3MHz	20385	QPS K	6	0	Hig h	VL	NT	9.14	0.0052 12	±2.5	PAS S

Band 4	3MHz	20385	QPS K	6	0	Hig h	VH	NT	-12.37	-0.0070 54	±2.5	PAS S
Band 4	3MHz	20385	16QA M	6	0	Hig h	VN	NT	-10.96	-0.0062 50	±2.5	PAS S
Band 4	3MHz	20385	16QA M	6	0	Hig h	VH	NT	-9.98	-0.0056 91	±2.5	PAS S
Band 4	3MHz	20385	16QA M	6	0	Hig h	VL	NT	9.08	0.0051 78	±2.5	PAS S
Band 4	5MHz	19975	QPS K	6	0	Lo w	VN	NT	-8.45	-0.0049 34	±2.5	PAS S
Band 4	5MHz	19975	QPS K	6	0	Lo w	VL	NT	-8.15	-0.0047 59	±2.5	PAS S
Band 4	5MHz	19975	QPS K	6	0	Lo w	VH	NT	-8.51	-0.0049 69	±2.5	PAS S
Band 4	5MHz	19975	16QA M	6	0	Lo w	VN	NT	-8.77	-0.0051 21	±2.5	PAS S
Band 4	5MHz	19975	16QA M	6	0	Lo w	VL	NT	-9.80	-0.0057 23	±2.5	PAS S
Band 4	5MHz	19975	16QA M	6	0	Lo w	VH	NT	-8.65	-0.0050 51	±2.5	PAS S
Band 4	5MHz	20175	QPS K	6	0	Lo w	VN	NT	11.83	0.0068 28	±2.5	PAS S
Band 4	5MHz	20175	QPS K	6	0	Lo w	VL	NT	10.07	0.0058 12	±2.5	PAS S
Band 4	5MHz	20175	QPS K	6	0	Lo w	VH	NT	10.24	0.0059 11	±2.5	PAS S
Band 4	5MHz	20175	16QA M	6	0	Lo w	VN	NT	6.98	0.0040 29	±2.5	PAS S
Band 4	5MHz	20175	16QA M	6	0	Lo w	VL	NT	10.41	0.0060 09	±2.5	PAS S
Band 4	5MHz	20175	16QA M	6	0	Lo w	VH	NT	6.74	0.0038 90	±2.5	PAS S
Band 4	5MHz	20375	QPS K	6	0	Hig h	VN	NT	-5.26	-0.0030 01	±2.5	PAS S
Band 4	5MHz	20375	QPS K	6	0	Hig h	VL	NT	-6.15	-0.0035 09	±2.5	PAS S
Band 4	5MHz	20375	QPS K	6	0	Hig h	VH	NT	-6.21	-0.0035	±2.5	PAS S

4			K			h				44		S
Band 4	5MHz	20375	16QAM	6	0	High	VN	NT	-2.53	-0.001444	±2.5	PASS
Band 4	5MHz	20375	16QAM	6	0	High	VL	NT	-5.38	-0.003070	±2.5	PASS
Band 4	5MHz	20375	16QAM	6	0	High	VH	NT	-7.05	-0.004023	±2.5	PASS
Band 4	10MHz	20000	QPSK	6	0	Low	VN	NT	-686.66	-0.400385	±2.5	PASS
Band 4	10MHz	20000	QPSK	6	0	Low	VL	NT	-686.49	-0.400286	±2.5	PASS
Band 4	10MHz	20000	QPSK	6	0	Low	VH	NT	-687.48	-0.400863	±2.5	PASS
Band 4	10MHz	20000	16QAM	6	0	Low	VN	NT	-690.64	-0.402706	±2.5	PASS
Band 4	10MHz	20000	16QAM	6	0	Low	VH	NT	-687.38	-0.400805	±2.5	PASS
Band 4	10MHz	20000	16QAM	6	0	Low	VL	NT	-685.70	-0.399825	±2.5	PASS
Band 4	10MHz	20175	QPSK	6	0	Low	VN	NT	-677.28	-0.390926	±2.5	PASS
Band 4	10MHz	20175	QPSK	6	0	Low	VL	NT	-675.34	-0.389807	±2.5	PASS
Band 4	10MHz	20175	QPSK	6	0	Low	VH	NT	-678.39	-0.391567	±2.5	PASS
Band 4	10MHz	20175	16QAM	6	0	Low	VN	NT	-675.47	-0.389882	±2.5	PASS
Band 4	10MHz	20175	16QAM	6	0	Low	VL	NT	-671.51	-0.387596	±2.5	PASS
Band 4	10MHz	20175	16QAM	6	0	Low	VH	NT	-675.04	-0.389633	±2.5	PASS
Band 4	10MHz	20350	QPSK	6	0	High	VN	NT	-688.19	-0.393251	±2.5	PASS
Band 4	10MHz	20350	QPSK	6	0	High	VL	NT	-685.94	-0.391966	±2.5	PASS
Band 4	10MHz	20350	QPSK	6	0	High	VH	NT	-691.77	-0.395297	±2.5	PASS

Band 4	10MHz	20350	16QAM	6	0	High	VN	NT	-684.01	-0.390863	±2.5	PASS
Band 4	10MHz	20350	16QAM	6	0	High	VL	NT	-685.42	-0.391669	±2.5	PASS
Band 4	10MHz	20350	16QAM	6	0	High	VH	NT	-686.97	-0.392554	±2.5	PASS
Band 4	15MHz	20025	QPSK	6	0	Low	VN	NT	8.08	0.004705	±2.5	PASS
Band 4	15MHz	20025	QPSK	6	0	Low	VL	NT	8.77	0.005106	±2.5	PASS
Band 4	15MHz	20025	QPSK	6	0	Low	VH	NT	7.04	0.004099	±2.5	PASS
Band 4	15MHz	20025	16QAM	6	0	Low	VN	NT	9.66	0.005624	±2.5	PASS
Band 4	15MHz	20025	16QAM	6	0	Low	VL	NT	8.50	0.004949	±2.5	PASS
Band 4	15MHz	20025	16QAM	6	0	Low	VH	NT	5.22	0.003039	±2.5	PASS
Band 4	15MHz	20175	QPSK	6	0	Low	VH	NT	7.74	0.004468	±2.5	PASS
Band 4	15MHz	20175	QPSK	6	0	Low	VN	NT	8.78	0.005068	±2.5	PASS
Band 4	15MHz	20175	QPSK	6	0	Low	VL	NT	9.80	0.005657	±2.5	PASS
Band 4	15MHz	20175	16QAM	6	0	Low	VH	NT	8.11	0.004681	±2.5	PASS
Band 4	15MHz	20175	16QAM	6	0	Low	VN	NT	7.77	0.004485	±2.5	PASS
Band 4	15MHz	20175	16QAM	6	0	Low	VL	NT	6.64	0.003833	±2.5	PASS
Band 4	15MHz	20325	QPSK	6	0	High	VN	NT	7.62	0.004361	±2.5	PASS
Band 4	15MHz	20325	QPSK	6	0	High	VL	NT	7.85	0.004492	±2.5	PASS
Band 4	15MHz	20325	QPSK	6	0	High	VH	NT	6.45	0.003691	±2.5	PASS
Band 4	15MHz	20325	16QAM	6	0	High	VN	NT	7.51	0.0042	±2.5	PASS

4			M			h				98		S
Band 4	15MHz	20325	16QAM	6	0	High	VL	NT	8.77	0.005019	±2.5	PASS
Band 4	15MHz	20325	16QAM	6	0	High	VH	NT	7.98	0.004567	±2.5	PASS
Band 4	20MHz	20050	QPSK	6	0	Low	VN	NT	-13.69	-0.007959	±2.5	PASS
Band 4	20MHz	20050	QPSK	6	0	Low	VL	NT	-11.94	-0.006942	±2.5	PASS
Band 4	20MHz	20050	QPSK	6	0	Low	VH	NT	-15.44	-0.008977	±2.5	PASS
Band 4	20MHz	20050	16QAM	6	0	Low	VN	NT	-16.41	-0.009541	±2.5	PASS
Band 4	20MHz	20050	16QAM	6	0	Low	VL	NT	-12.40	-0.007209	±2.5	PASS
Band 4	20MHz	20050	16QAM	6	0	Low	VH	NT	-11.34	-0.006593	±2.5	PASS
Band 4	20MHz	20175	QPSK	6	0	Low	VN	NT	7.72	0.004456	±2.5	PASS
Band 4	20MHz	20175	QPSK	6	0	Low	VL	NT	7.91	0.004566	±2.5	PASS
Band 4	20MHz	20175	QPSK	6	0	Low	VH	NT	9.17	0.005293	±2.5	PASS
Band 4	20MHz	20175	16QAM	6	0	Low	VN	NT	7.87	0.004543	±2.5	PASS
Band 4	20MHz	20175	16QAM	6	0	Low	VL	NT	7.94	0.004583	±2.5	PASS
Band 4	20MHz	20175	16QAM	6	0	Low	VH	NT	8.23	0.004750	±2.5	PASS
Band 4	20MHz	20300	QPSK	6	0	High	VN	NT	-6.09	-0.003490	±2.5	PASS
Band 4	20MHz	20300	QPSK	6	0	High	VL	NT	-5.98	-0.003427	±2.5	PASS
Band 4	20MHz	20300	QPSK	6	0	High	VH	NT	-4.63	-0.002653	±2.5	PASS
Band 4	20MHz	20300	16QAM	6	0	High	VN	NT	-5.15	-0.002951	±2.5	PASS

Band 4	20MHz	20300	16QAM	6	0	High	VH	NT	-5.61	-0.003215	±2.5	PASS
Band 4	20MHz	20300	16QAM	6	0	High	VL	NT	3.89	0.002229	±2.5	PASS
Band 5	1.4MHz	20407	QPSK	6	0	Low	VN	NT	-8.35	-0.010125	±2.5	PASS
Band 5	1.4MHz	20407	QPSK	6	0	Low	VL	NT	-9.47	-0.011483	±2.5	PASS
Band 5	1.4MHz	20407	QPSK	6	0	Low	VH	NT	-9.10	-0.011034	±2.5	PASS
Band 5	1.4MHz	20407	16QAM	6	0	Low	VN	NT	-27.84	-0.033758	±2.5	PASS
Band 5	1.4MHz	20407	16QAM	6	0	Low	VL	NT	-9.56	-0.011592	±2.5	PASS
Band 5	1.4MHz	20407	16QAM	6	0	Low	VH	NT	-11.72	-0.014211	±2.5	PASS
Band 5	1.4MHz	20525	QPSK	6	0	Low	VN	NT	-10.94	-0.013078	±2.5	PASS
Band 5	1.4MHz	20525	QPSK	6	0	Low	VL	NT	-7.00	-0.008368	±2.5	PASS
Band 5	1.4MHz	20525	QPSK	6	0	Low	VH	NT	-6.71	-0.008022	±2.5	PASS
Band 5	1.4MHz	20525	16QAM	6	0	Low	VN	NT	-5.59	-0.006683	±2.5	PASS
Band 5	1.4MHz	20525	16QAM	6	0	Low	VL	NT	-10.31	-0.012325	±2.5	PASS
Band 5	1.4MHz	20525	16QAM	6	0	Low	VH	NT	-10.71	-0.012803	±2.5	PASS
Band 5	1.4MHz	20643	QPSK	6	0	High	VN	NT	-3.66	-0.004315	±2.5	PASS
Band 5	1.4MHz	20643	QPSK	6	0	High	VL	NT	-18.65	-0.021985	±2.5	PASS
Band 5	1.4MHz	20643	QPSK	6	0	High	VH	NT	-19.04	-0.022445	±2.5	PASS
Band 5	1.4MHz	20643	16QAM	6	0	High	VN	NT	-18.50	-0.021808	±2.5	PASS
Band 5	1.4MHz	20643	16QAM	6	0	High	VL	NT	-21.01	-0.0247	±2.5	PASS

5	z		M			h				67		S
Band 5	1.4MHz	20643	16QAM	6	0	High	VH	NT	-21.92	-0.025840	±2.5	PASS
Band 5	3MHz	20415	QPSK	6	0	Low	VN	NT	-12.33	-0.014936	±2.5	PASS
Band 5	3MHz	20415	QPSK	6	0	Low	VL	NT	-8.87	-0.010745	±2.5	PASS
Band 5	3MHz	20415	QPSK	6	0	Low	VH	NT	-12.70	-0.015385	±2.5	PASS
Band 5	3MHz	20415	16QAM	6	0	Low	VH	NT	-10.97	-0.013289	±2.5	PASS
Band 5	3MHz	20415	16QAM	6	0	Low	VN	NT	-9.68	-0.011726	±2.5	PASS
Band 5	3MHz	20415	16QAM	6	0	Low	VL	NT	-11.79	-0.014282	±2.5	PASS
Band 5	3MHz	20525	QPSK	6	0	Low	VN	NT	-8.87	-0.010604	±2.5	PASS
Band 5	3MHz	20525	QPSK	6	0	Low	VL	NT	-8.94	-0.010687	±2.5	PASS
Band 5	3MHz	20525	QPSK	6	0	Low	VH	NT	-7.37	-0.008811	±2.5	PASS
Band 5	3MHz	20525	16QAM	6	0	Low	VN	NT	-8.31	-0.009934	±2.5	PASS
Band 5	3MHz	20525	16QAM	6	0	Low	VL	NT	-5.98	-0.007149	±2.5	PASS
Band 5	3MHz	20525	16QAM	6	0	Low	VH	NT	-8.75	-0.010460	±2.5	PASS
Band 5	3MHz	20635	QPSK	6	0	High	VN	NT	-12.79	-0.015091	±2.5	PASS
Band 5	3MHz	20635	QPSK	6	0	High	VL	NT	-7.32	-0.008637	±2.5	PASS
Band 5	3MHz	20635	QPSK	6	0	High	VH	NT	-13.02	-0.015363	±2.5	PASS
Band 5	3MHz	20635	16QAM	6	0	High	VN	NT	-13.60	-0.016047	±2.5	PASS
Band 5	3MHz	20635	16QAM	6	0	High	VL	NT	-3.58	-0.004224	±2.5	PASS

Band 5	3MHz	20635	16QAM	6	0	High	VH	NT	-12.23	-0.014431	±2.5	PASS
Band 5	5MHz	20425	QPSK	6	0	Low	VN	NT	3.99	0.004828	±2.5	PASS
Band 5	5MHz	20425	QPSK	6	0	Low	VL	NT	-2.57	-0.003109	±2.5	PASS
Band 5	5MHz	20425	QPSK	6	0	Low	VH	NT	3.13	0.003787	±2.5	PASS
Band 5	5MHz	20425	16QAM	6	0	Low	VN	NT	3.48	0.004211	±2.5	PASS
Band 5	5MHz	20425	16QAM	6	0	Low	VL	NT	-4.09	-0.004949	±2.5	PASS
Band 5	5MHz	20425	16QAM	6	0	Low	VH	NT	-3.28	-0.003969	±2.5	PASS
Band 5	5MHz	20525	QPSK	6	0	Low	VH	NT	-4.31	-0.005152	±2.5	PASS
Band 5	5MHz	20525	QPSK	6	0	Low	VN	NT	-4.79	-0.005726	±2.5	PASS
Band 5	5MHz	20525	QPSK	6	0	Low	VL	NT	-5.05	-0.006037	±2.5	PASS
Band 5	5MHz	20525	16QAM	6	0	Low	VH	NT	-5.91	-0.007065	±2.5	PASS
Band 5	5MHz	20525	16QAM	6	0	Low	VN	NT	-5.18	-0.006192	±2.5	PASS
Band 5	5MHz	20525	16QAM	6	0	Low	VL	NT	-6.90	-0.008249	±2.5	PASS
Band 5	5MHz	20625	QPSK	6	0	High	VN	NT	-4.53	-0.005351	±2.5	PASS
Band 5	5MHz	20625	QPSK	6	0	High	VL	NT	3.89	0.004595	±2.5	PASS
Band 5	5MHz	20625	QPSK	6	0	High	VH	NT	4.55	0.005375	±2.5	PASS
Band 5	5MHz	20625	16QAM	6	0	High	VN	NT	3.96	0.004678	±2.5	PASS
Band 5	5MHz	20625	16QAM	6	0	High	VL	NT	-2.90	-0.003426	±2.5	PASS
Band 5	5MHz	20625	16QAM	6	0	High	VH	NT	-4.26	-0.0050	±2.5	PASS

5			M			h				32		S
Band 5	10MHz	20450	QPSK	6	0	Low	VH	NT	8.23	0.009928	±2.5	PASS
Band 5	10MHz	20450	QPSK	6	0	Low	VN	NT	8.25	0.009952	±2.5	PASS
Band 5	10MHz	20450	QPSK	6	0	Low	VL	NT	8.65	0.010434	±2.5	PASS
Band 5	10MHz	20450	16QAM	6	0	Low	VH	NT	9.48	0.011435	±2.5	PASS
Band 5	10MHz	20450	16QAM	6	0	Low	VN	NT	9.31	0.011230	±2.5	PASS
Band 5	10MHz	20450	16QAM	6	0	Low	VL	NT	8.87	0.010700	±2.5	PASS
Band 5	10MHz	20525	QPSK	6	0	Low	VN	NT	9.11	0.010891	±2.5	PASS
Band 5	10MHz	20525	QPSK	6	0	Low	VL	NT	10.67	0.012756	±2.5	PASS
Band 5	10MHz	20525	QPSK	6	0	Low	VH	NT	10.39	0.012421	±2.5	PASS
Band 5	10MHz	20525	16QAM	6	0	Low	VN	NT	9.17	0.010962	±2.5	PASS
Band 5	10MHz	20525	16QAM	6	0	Low	VL	NT	10.04	0.012002	±2.5	PASS
Band 5	10MHz	20525	16QAM	6	0	Low	VH	NT	10.01	0.011967	±2.5	PASS
Band 5	10MHz	20600	QPSK	6	0	High	VH	NT	7.88	0.009336	±2.5	PASS
Band 5	10MHz	20600	QPSK	6	0	High	VL	NT	8.71	0.010320	±2.5	PASS
Band 5	10MHz	20600	QPSK	6	0	High	VN	NT	9.44	0.011185	±2.5	PASS
Band 5	10MHz	20600	16QAM	6	0	High	VL	NT	9.53	0.011291	±2.5	PASS
Band 5	10MHz	20600	16QAM	6	0	High	VH	NT	9.56	0.011327	±2.5	PASS
Band 5	10MHz	20600	16QAM	6	0	High	VN	NT	9.47	0.011220	±2.5	PASS

Band 12	1.4MH z	23017	QPS K	6	0	Lo w	VN	NT	-7.41	-0.0105 90	±2.5	PAS S
Band 12	1.4MH z	23017	QPS K	6	0	Lo w	VL	NT	-8.73	-0.0124 77	±2.5	PAS S
Band 12	1.4MH z	23017	QPS K	6	0	Lo w	VH	NT	-7.24	-0.0103 47	±2.5	PAS S
Band 12	1.4MH z	23017	16QA M	6	0	Lo w	VN	NT	-4.73	-0.0067 60	±2.5	PAS S
Band 12	1.4MH z	23017	16QA M	6	0	Lo w	VL	NT	-5.87	-0.0083 89	±2.5	PAS S
Band 12	1.4MH z	23017	16QA M	6	0	Lo w	VH	NT	-8.88	-0.0126 91	±2.5	PAS S
Band 12	1.4MH z	23095	QPS K	6	0	Lo w	VN	NT	-6.32	-0.0089 33	±2.5	PAS S
Band 12	1.4MH z	23095	QPS K	6	0	Lo w	VL	NT	-7.64	-0.0107 99	±2.5	PAS S
Band 12	1.4MH z	23095	QPS K	6	0	Lo w	VH	NT	-5.74	-0.0081 13	±2.5	PAS S
Band 12	1.4MH z	23095	16QA M	6	0	Lo w	VN	NT	-5.48	-0.0077 46	±2.5	PAS S
Band 12	1.4MH z	23095	16QA M	6	0	Lo w	VL	NT	-7.60	-0.0107 42	±2.5	PAS S
Band 12	1.4MH z	23095	16QA M	6	0	Lo w	VH	NT	-6.12	-0.0086 50	±2.5	PAS S
Band 12	1.4MH z	23173	QPS K	6	0	Hig h	VN	NT	-9.73	-0.0136 03	±2.5	PAS S
Band 12	1.4MH z	23173	QPS K	6	0	Hig h	VL	NT	-5.82	-0.0081 36	±2.5	PAS S
Band 12	1.4MH z	23173	QPS K	6	0	Hig h	VH	NT	-5.68	-0.0079 41	±2.5	PAS S
Band 12	1.4MH z	23173	16QA M	6	0	Hig h	VN	NT	-8.94	-0.0124 98	±2.5	PAS S
Band 12	1.4MH z	23173	16QA M	6	0	Hig h	VL	NT	-4.82	-0.0067 38	±2.5	PAS S
Band 12	1.4MH z	23173	16QA M	6	0	Hig h	VH	NT	-5.64	-0.0078 85	±2.5	PAS S
Band	3MHz	23025	QPS	6	0	Lo	VN	NT	-4.53	-0.0064	±2.5	PAS

12			K			w				67		S
Band 12	3MHz	23025	QPS K	6	0	Low	VH	NT	-5.16	-0.007366	±2.5	PASS
Band 12	3MHz	23025	QPS K	6	0	Low	VL	NT	-6.79	-0.009693	±2.5	PASS
Band 12	3MHz	23025	16QAM	6	0	Low	VN	NT	-5.44	-0.007766	±2.5	PASS
Band 12	3MHz	23025	16QAM	6	0	Low	VL	NT	2.62	0.003740	±2.5	PASS
Band 12	3MHz	23025	16QAM	6	0	Low	VH	NT	-3.46	-0.004939	±2.5	PASS
Band 12	3MHz	23095	QPS K	6	0	Low	VN	NT	-4.23	-0.005979	±2.5	PASS
Band 12	3MHz	23095	QPS K	6	0	Low	VL	NT	-15.75	-0.022261	±2.5	PASS
Band 12	3MHz	23095	QPS K	6	0	Low	VH	NT	-6.95	-0.009823	±2.5	PASS
Band 12	3MHz	23095	16QAM	6	0	Low	VN	NT	-5.56	-0.007859	±2.5	PASS
Band 12	3MHz	23095	16QAM	6	0	Low	VL	NT	-6.52	-0.009216	±2.5	PASS
Band 12	3MHz	23095	16QAM	6	0	Low	VH	NT	-18.48	-0.026120	±2.5	PASS
Band 12	3MHz	23165	QPS K	6	0	High	VN	NT	7.35	0.010287	±2.5	PASS
Band 12	3MHz	23165	QPS K	6	0	High	VL	NT	-8.93	-0.012498	±2.5	PASS
Band 12	3MHz	23165	QPS K	6	0	High	VH	NT	4.45	0.006228	±2.5	PASS
Band 12	3MHz	23165	16QAM	6	0	High	VN	NT	8.01	0.011211	±2.5	PASS
Band 12	3MHz	23165	16QAM	6	0	High	VL	NT	2.80	0.003919	±2.5	PASS
Band 12	3MHz	23165	16QAM	6	0	High	VH	NT	-10.71	-0.014990	±2.5	PASS
Band 12	5MHz	23035	QPS K	6	0	Low	VN	NT	-3.49	-0.004975	±2.5	PASS

Band 12	5MHz	23035	QPS K	6	0	Low	VL	NT	-2.17	-0.003093	±2.5	PASS
Band 12	5MHz	23035	QPS K	6	0	Low	VH	NT	-2.42	-0.003450	±2.5	PASS
Band 12	5MHz	23035	16QAM	6	0	Low	VN	NT	-4.12	-0.005873	±2.5	PASS
Band 12	5MHz	23035	16QAM	6	0	Low	VL	NT	-5.35	-0.007627	±2.5	PASS
Band 12	5MHz	23035	16QAM	6	0	Low	VH	NT	-3.96	-0.005645	±2.5	PASS
Band 12	5MHz	23095	QPS K	6	0	Low	VN	NT	-4.75	-0.006714	±2.5	PASS
Band 12	5MHz	23095	QPS K	6	0	Low	VL	NT	-4.99	-0.007053	±2.5	PASS
Band 12	5MHz	23095	QPS K	6	0	Low	VH	NT	-3.05	-0.004311	±2.5	PASS
Band 12	5MHz	23095	16QAM	6	0	Low	VN	NT	-4.61	-0.006516	±2.5	PASS
Band 12	5MHz	23095	16QAM	6	0	Low	VL	NT	-3.55	-0.005018	±2.5	PASS
Band 12	5MHz	23095	16QAM	6	0	Low	VH	NT	-3.92	-0.005541	±2.5	PASS
Band 12	5MHz	23155	QPS K	6	0	High	VN	NT	-4.33	-0.006069	±2.5	PASS
Band 12	5MHz	23155	QPS K	6	0	High	VL	NT	-4.81	-0.006741	±2.5	PASS
Band 12	5MHz	23155	QPS K	6	0	High	VH	NT	-7.00	-0.009811	±2.5	PASS
Band 12	5MHz	23155	16QAM	6	0	High	VN	NT	-6.72	-0.009418	±2.5	PASS
Band 12	5MHz	23155	16QAM	6	0	High	VL	NT	-6.19	-0.008676	±2.5	PASS
Band 12	5MHz	23155	16QAM	6	0	High	VH	NT	-3.76	-0.005270	±2.5	PASS
Band 12	10MHz	23060	QPS K	6	0	Low	VN	NT	12.59	0.017884	±2.5	PASS
Band 12	10MHz	23060	QPS K	6	0	Low	VL	NT	13.35	0.0189	±2.5	PASS

12			K			w				63		S
Band 12	10MHz	23060	QPS K	6	0	Low	VH	NT	14.10	0.020028	±2.5	PASS
Band 12	10MHz	23060	16QAM	6	0	Low	VN	NT	12.22	0.017358	±2.5	PASS
Band 12	10MHz	23060	16QAM	6	0	Low	VL	NT	13.35	0.018963	±2.5	PASS
Band 12	10MHz	23060	16QAM	6	0	Low	VH	NT	14.08	0.020000	±2.5	PASS
Band 12	10MHz	23095	QPS K	6	0	Low	VN	NT	7.50	0.010601	±2.5	PASS
Band 12	10MHz	23095	QPS K	6	0	Low	VL	NT	6.51	0.009201	±2.5	PASS
Band 12	10MHz	23095	QPS K	6	0	Low	VH	NT	8.15	0.011519	±2.5	PASS
Band 12	10MHz	23095	16QAM	6	0	Low	VH	NT	7.60	0.010742	±2.5	PASS
Band 12	10MHz	23095	16QAM	6	0	Low	VN	NT	6.42	0.009074	±2.5	PASS
Band 12	10MHz	23095	16QAM	6	0	Low	VL	NT	5.38	0.007604	±2.5	PASS
Band 12	10MHz	23130	QPS K	6	0	High	VH	NT	10.53	0.014810	±2.5	PASS
Band 12	10MHz	23130	QPS K	6	0	High	VN	NT	8.83	0.012419	±2.5	PASS
Band 12	10MHz	23130	QPS K	6	0	High	VL	NT	9.61	0.013516	±2.5	PASS
Band 12	10MHz	23130	16QAM	6	0	High	VN	NT	7.75	0.010900	±2.5	PASS
Band 12	10MHz	23130	16QAM	6	0	High	VL	NT	9.66	0.013586	±2.5	PASS
Band 12	10MHz	23130	16QAM	6	0	High	VH	NT	10.51	0.014782	±2.5	PASS
Band 13	5MHz	23205	QPS K	6	0	Low	VN	NT	4.16	0.005337	±2.5	PASS
Band 13	5MHz	23205	QPS K	6	0	Low	VL	NT	2.86	0.003669	±2.5	PASS

Band 13	5MHz	23205	QPS K	6	0	Low	VH	NT	4.73	0.006068	±2.5	PASS
Band 13	5MHz	23205	16QAM	6	0	Low	VH	NT	4.02	0.005157	±2.5	PASS
Band 13	5MHz	23205	16QAM	6	0	Low	VN	NT	2.59	0.003323	±2.5	PASS
Band 13	5MHz	23205	16QAM	6	0	Low	VL	NT	4.63	0.005940	±2.5	PASS
Band 13	5MHz	23230	QPS K	6	0	Low	VH	NT	-5.79	-0.007404	±2.5	PASS
Band 13	5MHz	23230	QPS K	6	0	Low	VN	NT	-3.23	-0.004130	±2.5	PASS
Band 13	5MHz	23230	QPS K	6	0	Low	VL	NT	-4.38	-0.005601	±2.5	PASS
Band 13	5MHz	23230	16QAM	6	0	Low	VN	NT	-2.85	-0.003645	±2.5	PASS
Band 13	5MHz	23230	16QAM	6	0	Low	VL	NT	-3.58	-0.004578	±2.5	PASS
Band 13	5MHz	23230	16QAM	6	0	Low	VH	NT	-3.65	-0.004668	±2.5	PASS
Band 13	5MHz	23255	QPS K	6	0	High	VN	NT	3.42	0.004359	±2.5	PASS
Band 13	5MHz	23255	QPS K	6	0	High	VL	NT	3.02	0.003850	±2.5	PASS
Band 13	5MHz	23255	QPS K	6	0	High	VH	NT	4.49	0.005723	±2.5	PASS
Band 13	5MHz	23255	16QAM	6	0	High	VL	NT	4.43	0.005647	±2.5	PASS
Band 13	5MHz	23255	16QAM	6	0	High	VN	NT	4.13	0.005264	±2.5	PASS
Band 13	5MHz	23255	16QAM	6	0	High	VH	NT	3.20	0.004079	±2.5	PASS
Band 13	10MHz	23230	QPS K	6	0	Low	VL	NT	6.88	0.008798	±2.5	PASS
Band 13	10MHz	23230	QPS K	6	0	Low	VH	NT	6.81	0.008708	±2.5	PASS
Band 13	10MHz	23230	QPS K	6	0	Low	VN	NT	6.67	0.0085	±2.5	PASS

13			K			w				29		S
Band 13	10MHz	23230	16QAM	6	0	Low	VN	NT	6.39	0.008171	±2.5	PASS
Band 13	10MHz	23230	16QAM	6	0	Low	VL	NT	5.75	0.007353	±2.5	PASS
Band 13	10MHz	23230	16QAM	6	0	Low	VH	NT	6.55	0.008376	±2.5	PASS
Band 25	1.4MHz	26047	QPSK	6	0	Low	VN	NT	-30.41	-0.016432	±2.5	PASS
Band 25	1.4MHz	26047	QPSK	6	0	Low	VL	NT	-17.01	-0.009191	±2.5	PASS
Band 25	1.4MHz	26047	QPSK	6	0	Low	VH	NT	-15.55	-0.008402	±2.5	PASS
Band 25	1.4MHz	26047	16QAM	6	0	Low	VN	NT	-32.56	-0.017593	±2.5	PASS
Band 25	1.4MHz	26047	16QAM	6	0	Low	VL	NT	-16.11	-0.008705	±2.5	PASS
Band 25	1.4MHz	26047	16QAM	6	0	Low	VH	NT	-16.92	-0.009142	±2.5	PASS
Band 25	1.4MHz	26365	QPSK	6	0	Low	VL	NT	-99.71	-0.052967	±2.5	PASS
Band 25	1.4MHz	26365	QPSK	6	0	Low	VH	NT	-103.24	-0.054842	±2.5	PASS
Band 25	1.4MHz	26365	QPSK	6	0	Low	VN	NT	-96.39	-0.051203	±2.5	PASS
Band 25	1.4MHz	26365	16QAM	6	0	Low	VL	NT	-89.28	-0.047426	±2.5	PASS
Band 25	1.4MHz	26365	16QAM	6	0	Low	VH	NT	-101.31	-0.053817	±2.5	PASS
Band 25	1.4MHz	26365	16QAM	6	0	Low	VN	NT	-33.25	-0.017663	±2.5	PASS
Band 25	1.4MHz	26683	QPSK	6	0	High	VN	NT	-13.65	-0.007131	±2.5	PASS
Band 25	1.4MHz	26683	QPSK	6	0	High	VL	NT	-19.48	-0.010176	±2.5	PASS
Band 25	1.4MHz	26683	QPSK	6	0	High	VH	NT	-13.12	-0.006854	±2.5	PASS

Band 25	1.4MHz	26683	16QAM	6	0	High	VN	NT	-11.80	-0.006164	±2.5	PASS
Band 25	1.4MHz	26683	16QAM	6	0	High	VL	NT	-11.97	-0.006253	±2.5	PASS
Band 25	1.4MHz	26683	16QAM	6	0	High	VH	NT	-20.07	-0.010484	±2.5	PASS
Band 25	3MHz	26055	QPSK	6	0	Low	VH	NT	10.36	0.005595	±2.5	PASS
Band 25	3MHz	26055	QPSK	6	0	Low	VN	NT	9.68	0.005228	±2.5	PASS
Band 25	3MHz	26055	QPSK	6	0	Low	VL	NT	10.26	0.005541	±2.5	PASS
Band 25	3MHz	26055	16QAM	6	0	Low	VH	NT	5.64	0.003046	±2.5	PASS
Band 25	3MHz	26055	16QAM	6	0	Low	VL	NT	10.51	0.005676	±2.5	PASS
Band 25	3MHz	26055	16QAM	6	0	Low	VN	NT	10.04	0.005423	±2.5	PASS
Band 25	3MHz	26365	QPSK	6	0	Low	VN	NT	-87.80	-0.046640	±2.5	PASS
Band 25	3MHz	26365	QPSK	6	0	Low	VL	NT	-82.13	-0.043628	±2.5	PASS
Band 25	3MHz	26365	QPSK	6	0	Low	VH	NT	-81.55	-0.043320	±2.5	PASS
Band 25	3MHz	26365	16QAM	6	0	Low	VN	NT	-29.73	-0.015793	±2.5	PASS
Band 25	3MHz	26365	16QAM	6	0	Low	VL	NT	-27.17	-0.014433	±2.5	PASS
Band 25	3MHz	26365	16QAM	6	0	Low	VH	NT	-73.86	-0.039235	±2.5	PASS
Band 25	3MHz	26675	QPSK	6	0	High	VN	NT	-15.54	-0.008121	±2.5	PASS
Band 25	3MHz	26675	QPSK	6	0	High	VL	NT	-33.67	-0.017596	±2.5	PASS
Band 25	3MHz	26675	QPSK	6	0	High	VH	NT	-28.18	-0.014727	±2.5	PASS
Band 25	3MHz	26675	16QAM	6	0	High	VL	NT	-9.88	-0.0051	±2.5	PASS

25			M			h				63		S
Band 25	3MHz	26675	16QAM	6	0	High	VH	NT	-12.25	-0.006402	±2.5	PASS
Band 25	3MHz	26675	16QAM	6	0	High	VN	NT	-35.48	-0.018542	±2.5	PASS
Band 25	5MHz	26065	QPSK	6	0	Low	VL	NT	-10.43	-0.005630	±2.5	PASS
Band 25	5MHz	26065	QPSK	6	0	Low	VH	NT	-7.91	-0.004270	±2.5	PASS
Band 25	5MHz	26065	QPSK	6	0	Low	VN	NT	-8.07	-0.004356	±2.5	PASS
Band 25	5MHz	26065	16QAM	6	0	Low	VN	NT	-8.65	-0.004669	±2.5	PASS
Band 25	5MHz	26065	16QAM	6	0	Low	VL	NT	-7.71	-0.004162	±2.5	PASS
Band 25	5MHz	26065	16QAM	6	0	Low	VH	NT	-10.83	-0.005846	±2.5	PASS
Band 25	5MHz	26365	QPSK	6	0	Low	VN	NT	-10.90	-0.005790	±2.5	PASS
Band 25	5MHz	26365	QPSK	6	0	Low	VL	NT	-15.98	-0.008489	±2.5	PASS
Band 25	5MHz	26365	QPSK	6	0	Low	VH	NT	-11.09	-0.005891	±2.5	PASS
Band 25	5MHz	26365	16QAM	6	0	Low	VN	NT	-8.70	-0.004622	±2.5	PASS
Band 25	5MHz	26365	16QAM	6	0	Low	VL	NT	-12.53	-0.006656	±2.5	PASS
Band 25	5MHz	26365	16QAM	6	0	Low	VH	NT	-16.85	-0.008951	±2.5	PASS
Band 25	5MHz	26665	QPSK	6	0	High	VN	NT	-9.56	-0.004999	±2.5	PASS
Band 25	5MHz	26665	QPSK	6	0	High	VH	NT	-9.90	-0.005176	±2.5	PASS
Band 25	5MHz	26665	QPSK	6	0	High	VL	NT	-9.26	-0.004842	±2.5	PASS
Band 25	5MHz	26665	16QAM	6	0	High	VN	NT	-11.60	-0.006065	±2.5	PASS

Band 25	5MHz	26665	16QAM	6	0	High	VL	NT	-9.94	-0.005197	±2.5	PASS
Band 25	5MHz	26665	16QAM	6	0	High	VH	NT	-8.05	-0.004209	±2.5	PASS
Band 25	10MHz	26090	QPSK	6	0	Low	VN	NT	8.81	0.004749	±2.5	PASS
Band 25	10MHz	26090	QPSK	6	0	Low	VL	NT	8.08	0.004356	±2.5	PASS
Band 25	10MHz	26090	QPSK	6	0	Low	VH	NT	8.55	0.004609	±2.5	PASS
Band 25	10MHz	26090	16QAM	6	0	Low	VL	NT	9.30	0.005013	±2.5	PASS
Band 25	10MHz	26090	16QAM	6	0	Low	VH	NT	9.66	0.005208	±2.5	PASS
Band 25	10MHz	26090	16QAM	6	0	Low	VN	NT	9.41	0.005073	±2.5	PASS
Band 25	10MHz	26365	QPSK	6	0	Low	VL	NT	-6.84	-0.003633	±2.5	PASS
Band 25	10MHz	26365	QPSK	6	0	Low	VH	NT	-6.90	-0.003665	±2.5	PASS
Band 25	10MHz	26365	QPSK	6	0	Low	VN	NT	-7.55	-0.004011	±2.5	PASS
Band 25	10MHz	26365	16QAM	6	0	Low	VN	NT	-7.97	-0.004234	±2.5	PASS
Band 25	10MHz	26365	16QAM	6	0	Low	VL	NT	-4.26	-0.002263	±2.5	PASS
Band 25	10MHz	26365	16QAM	6	0	Low	VH	NT	-4.78	-0.002539	±2.5	PASS
Band 25	10MHz	26640	QPSK	6	0	High	VN	NT	14.48	0.007581	±2.5	PASS
Band 25	10MHz	26640	QPSK	6	0	High	VL	NT	14.39	0.007534	±2.5	PASS
Band 25	10MHz	26640	QPSK	6	0	High	VH	NT	13.96	0.007309	±2.5	PASS
Band 25	10MHz	26640	16QAM	6	0	High	VN	NT	14.58	0.007634	±2.5	PASS
Band 25	10MHz	26640	16QAM	6	0	High	VH	NT	15.15	0.0079	±2.5	PASS

25			M			h				32		S
Band 25	10MHz	26640	16QAM	6	0	High	VL	NT	11.79	0.006173	±2.5	PASS
Band 25	15MHz	26115	QPSK	6	0	Low	VL	NT	9.74	0.005244	±2.5	PASS
Band 25	15MHz	26115	QPSK	6	0	Low	VH	NT	7.27	0.003914	±2.5	PASS
Band 25	15MHz	26115	QPSK	6	0	Low	VN	NT	9.68	0.005211	±2.5	PASS
Band 25	15MHz	26115	16QAM	6	0	Low	VN	NT	8.65	0.004657	±2.5	PASS
Band 25	15MHz	26115	16QAM	6	0	Low	VH	NT	10.94	0.005890	±2.5	PASS
Band 25	15MHz	26115	16QAM	6	0	Low	VL	NT	8.41	0.004528	±2.5	PASS
Band 26	1.4MHz	26697	QPSK	6	0	Low	VL	NT	-28.72	-0.035252	±2.5	PASS
Band 26	1.4MHz	26697	QPSK	6	0	Low	VN	NT	-30.47	-0.037400	±2.5	PASS
Band 26	1.4MHz	26697	QPSK	6	0	Low	VH	NT	-31.17	-0.038259	±2.5	PASS
Band 26	1.4MHz	26697	16QAM	6	0	Low	VH	NT	-8.54	-0.010482	±2.5	PASS
Band 26	1.4MHz	26697	16QAM	6	0	Low	VN	NT	-28.35	-0.034798	±2.5	PASS
Band 26	1.4MHz	26697	16QAM	6	0	Low	VL	NT	-8.87	-0.010887	±2.5	PASS
Band 26	1.4MHz	26740	QPSK	6	0	Low	VL	NT	-33.77	-0.041233	±2.5	PASS
Band 26	1.4MHz	26740	QPSK	6	0	Low	VN	NT	-14.10	-0.017216	±2.5	PASS
Band 26	1.4MHz	26740	QPSK	6	0	Low	VH	NT	-14.78	-0.018046	±2.5	PASS
Band 26	1.4MHz	26740	16QAM	6	0	Low	VH	NT	-35.33	-0.043138	±2.5	PASS
Band 26	1.4MHz	26740	16QAM	6	0	Low	VN	NT	-12.62	-0.015409	±2.5	PASS

Band 26	1.4MH z	26740	16QA M	6	0	Lo w	VL	NT	-33.10	-0.0404 15	±2.5	PAS S
Band 26	1.4MH z	26783	QPS K	6	0	Hig h	VH	NT	-24.99	-0.0303 53	±2.5	PAS S
Band 26	1.4MH z	26783	QPS K	6	0	Hig h	VL	NT	-11.40	-0.0138 47	±2.5	PAS S
Band 26	1.4MH z	26783	QPS K	6	0	Hig h	VN	NT	-10.63	-0.0129 11	±2.5	PAS S
Band 26	1.4MH z	26783	16QA M	6	0	Hig h	VN	NT	-22.60	-0.0274 51	±2.5	PAS S
Band 26	1.4MH z	26783	16QA M	6	0	Hig h	VH	NT	-9.80	-0.0119 03	±2.5	PAS S
Band 26	1.4MH z	26783	16QA M	6	0	Hig h	VL	NT	-22.37	-0.0271 71	±2.5	PAS S
Band 26	1.4MH z	26797	QPS K	6	0	Lo w	VL	NT	-8.98	-0.0108 89	±2.5	PAS S
Band 26	1.4MH z	26797	QPS K	6	0	Lo w	VH	NT	-9.03	-0.0109 49	±2.5	PAS S
Band 26	1.4MH z	26797	QPS K	6	0	Lo w	VN	NT	-8.93	-0.0108 28	±2.5	PAS S
Band 26	1.4MH z	26797	16QA M	6	0	Lo w	VH	NT	-5.58	-0.0067 66	±2.5	PAS S
Band 26	1.4MH z	26797	16QA M	6	0	Lo w	VL	NT	-5.12	-0.0062 08	±2.5	PAS S
Band 26	1.4MH z	26797	16QA M	6	0	Lo w	VN	NT	-4.35	-0.0052 75	±2.5	PAS S
Band 26	1.4MH z	26915	QPS K	6	0	Lo w	VH	NT	-15.75	-0.0188 28	±2.5	PAS S
Band 26	1.4MH z	26915	QPS K	6	0	Lo w	VL	NT	-14.86	-0.0177 64	±2.5	PAS S
Band 26	1.4MH z	26915	QPS K	6	0	Lo w	VN	NT	-14.98	-0.0179 08	±2.5	PAS S
Band 26	1.4MH z	26915	16QA M	6	0	Lo w	VH	NT	-17.15	-0.0205 02	±2.5	PAS S
Band 26	1.4MH z	26915	16QA M	6	0	Lo w	VL	NT	-41.10	-0.0491 33	±2.5	PAS S
Band	1.4MH	26915	16QA	6	0	Lo	VN	NT	-38.01	-0.0454	±2.5	PAS

26	z		M			w				39		S
Band 26	1.4MH z	27033	QPS K	6	0	Hig h	VH	NT	-11.49	-0.0135 45	±2.5	PAS S
Band 26	1.4MH z	27033	QPS K	6	0	Hig h	VL	NT	-10.30	-0.0121 42	±2.5	PAS S
Band 26	1.4MH z	27033	QPS K	6	0	Hig h	VN	NT	-3.48	-0.0041 02	±2.5	PAS S
Band 26	1.4MH z	27033	16QA M	6	0	Hig h	VH	NT	-12.50	-0.0147 35	±2.5	PAS S
Band 26	1.4MH z	27033	16QA M	6	0	Hig h	VL	NT	-3.46	-0.0040 79	±2.5	PAS S
Band 26	1.4MH z	27033	16QA M	6	0	Hig h	VN	NT	3.45	0.0040 67	±2.5	PAS S
Band 26	3MHz	26705	QPS K	6	0	Lo w	VH	NT	-13.82	-0.0169 47	±2.5	PAS S
Band 26	3MHz	26705	QPS K	6	0	Lo w	VL	NT	-9.76	-0.0119 68	±2.5	PAS S
Band 26	3MHz	26705	QPS K	6	0	Lo w	VN	NT	-7.02	-0.0086 08	±2.5	PAS S
Band 26	3MHz	26705	16QA M	6	0	Lo w	VN	NT	-13.85	-0.0169 83	±2.5	PAS S
Band 26	3MHz	26705	16QA M	6	0	Lo w	VL	NT	-6.81	-0.0083 51	±2.5	PAS S
Band 26	3MHz	26705	16QA M	6	0	Lo w	VH	NT	-6.67	-0.0081 79	±2.5	PAS S
Band 26	3MHz	26740	QPS K	6	0	Lo w	VH	NT	-41.23	-0.0503 42	±2.5	PAS S
Band 26	3MHz	26740	QPS K	6	0	Lo w	VN	NT	-16.15	-0.0197 19	±2.5	PAS S
Band 26	3MHz	26740	QPS K	6	0	Lo w	VL	NT	-15.16	-0.0185 10	±2.5	PAS S
Band 26	3MHz	26740	16QA M	6	0	Lo w	VH	NT	-16.97	-0.0207 20	±2.5	PAS S
Band 26	3MHz	26740	16QA M	6	0	Lo w	VL	NT	-14.88	-0.0181 68	±2.5	PAS S
Band 26	3MHz	26740	16QA M	6	0	Lo w	VN	NT	-38.21	-0.0466 54	±2.5	PAS S

Band 26	3MHz	26775	QPS K	6	0	Hig h	VH	NT	3.10	0.0037 69	±2.5	PAS S
Band 26	3MHz	26775	QPS K	6	0	Hig h	VL	NT	-7.02	-0.0085 35	±2.5	PAS S
Band 26	3MHz	26775	QPS K	6	0	Hig h	VN	NT	3.86	0.0046 93	±2.5	PAS S
Band 26	3MHz	26775	16QA M	6	0	Hig h	VN	NT	-3.10	-0.0037 69	±2.5	PAS S
Band 26	3MHz	26775	16QA M	6	0	Hig h	VH	NT	-10.83	-0.0131 67	±2.5	PAS S
Band 26	3MHz	26775	16QA M	6	0	Hig h	VL	NT	-10.31	-0.0125 35	±2.5	PAS S
Band 26	3MHz	26805	QPS K	6	0	Lo w	VL	NT	-4.72	-0.0057 18	±2.5	PAS S
Band 26	3MHz	26805	QPS K	6	0	Lo w	VN	NT	2.56	0.0031 01	±2.5	PAS S
Band 26	3MHz	26805	QPS K	6	0	Lo w	VH	NT	6.34	0.0076 80	±2.5	PAS S
Band 26	3MHz	26805	16QA M	6	0	Lo w	VL	NT	5.31	0.0064 32	±2.5	PAS S
Band 26	3MHz	26805	16QA M	6	0	Lo w	VH	NT	4.65	0.0056 33	±2.5	PAS S
Band 26	3MHz	26805	16QA M	6	0	Lo w	VN	NT	-6.74	-0.0081 65	±2.5	PAS S
Band 26	3MHz	26915	QPS K	6	0	Lo w	VN	NT	-6.65	-0.0079 50	±2.5	PAS S
Band 26	3MHz	26915	QPS K	6	0	Lo w	VL	NT	-5.94	-0.0071 01	±2.5	PAS S
Band 26	3MHz	26915	QPS K	6	0	Lo w	VH	NT	-6.09	-0.0072 80	±2.5	PAS S
Band 26	3MHz	26915	16QA M	6	0	Lo w	VH	NT	-8.05	-0.0096 23	±2.5	PAS S
Band 26	3MHz	26915	16QA M	6	0	Lo w	VL	NT	-7.14	-0.0085 36	±2.5	PAS S
Band 26	3MHz	26915	16QA M	6	0	Lo w	VN	NT	-8.61	-0.0102 93	±2.5	PAS S
Band	3MHz	27025	QPS	6	0	Hig	VN	NT	-10.09	-0.0119	±2.5	PAS

26			K			h				06		S
Band 26	3MHz	27025	QPS K	6	0	Hig h	VL	NT	-5.39	-0.0063 60	±2.5	PAS S
Band 26	3MHz	27025	QPS K	6	0	Hig h	VH	NT	-11.37	-0.0134 16	±2.5	PAS S
Band 26	3MHz	27025	16QA M	6	0	Hig h	VN	NT	-12.26	-0.0144 66	±2.5	PAS S
Band 26	3MHz	27025	16QA M	6	0	Hig h	VL	NT	-6.31	-0.0074 45	±2.5	PAS S
Band 26	3MHz	27025	16QA M	6	0	Hig h	VH	NT	-3.09	-0.0036 46	±2.5	PAS S
Band 26	5MHz	26715	QPS K	6	0	Lo w	VN	NT	6.85	0.0083 89	±2.5	PAS S
Band 26	5MHz	26715	QPS K	6	0	Lo w	VH	NT	8.01	0.0098 10	±2.5	PAS S
Band 26	5MHz	26715	QPS K	6	0	Lo w	VL	NT	4.52	0.0055 36	±2.5	PAS S
Band 26	5MHz	26715	16QA M	6	0	Lo w	VH	NT	6.94	0.0085 00	±2.5	PAS S
Band 26	5MHz	26715	16QA M	6	0	Lo w	VN	NT	6.57	0.0080 47	±2.5	PAS S
Band 26	5MHz	26715	16QA M	6	0	Lo w	VL	NT	7.48	0.0091 61	±2.5	PAS S
Band 26	5MHz	26740	QPS K	6	0	Lo w	VN	NT	-6.48	-0.0079 12	±2.5	PAS S
Band 26	5MHz	26740	QPS K	6	0	Lo w	VL	NT	-8.11	-0.0099 02	±2.5	PAS S
Band 26	5MHz	26740	QPS K	6	0	Lo w	VH	NT	-7.05	-0.0086 08	±2.5	PAS S
Band 26	5MHz	26740	16QA M	6	0	Lo w	VL	NT	-7.02	-0.0085 71	±2.5	PAS S
Band 26	5MHz	26740	16QA M	6	0	Lo w	VN	NT	-5.89	-0.0071 92	±2.5	PAS S
Band 26	5MHz	26740	16QA M	6	0	Lo w	VH	NT	-8.20	-0.0100 12	±2.5	PAS S
Band 26	5MHz	26785	QPS K	6	0	Hig h	VL	NT	-2.09	-0.0025 38	±2.5	PAS S

Band 26	5MHz	26785	QPS K	6	0	Hig h	VH	NT	-5.06	-0.006145	±2.5	PAS S
Band 26	5MHz	26785	QPS K	6	0	Hig h	VN	NT	-3.29	-0.003995	±2.5	PAS S
Band 26	5MHz	26785	16QA M	6	0	Hig h	VH	NT	-2.78	-0.003376	±2.5	PAS S
Band 26	5MHz	26785	16QA M	6	0	Hig h	VN	NT	-2.95	-0.003582	±2.5	PAS S
Band 26	5MHz	26785	16QA M	6	0	Hig h	VL	NT	2.69	0.003267	±2.5	PAS S
Band 26	5MHz	26815	QPS K	6	0	Lo w	VH	NT	2.65	0.003206	±2.5	PAS S
Band 26	5MHz	26815	QPS K	6	0	Lo w	VN	NT	3.86	0.004670	±2.5	PAS S
Band 26	5MHz	26815	QPS K	6	0	Lo w	VL	NT	3.43	0.004150	±2.5	PAS S
Band 26	5MHz	26815	16QA M	6	0	Lo w	VH	NT	4.28	0.005178	±2.5	PAS S
Band 26	5MHz	26815	16QA M	6	0	Lo w	VL	NT	4.56	0.005517	±2.5	PAS S
Band 26	5MHz	26815	16QA M	6	0	Lo w	VN	NT	-2.76	-0.003339	±2.5	PAS S
Band 26	5MHz	26915	QPS K	6	0	Lo w	VH	NT	-4.76	-0.005690	±2.5	PAS S
Band 26	5MHz	26915	QPS K	6	0	Lo w	VL	NT	-3.69	-0.004411	±2.5	PAS S
Band 26	5MHz	26915	QPS K	6	0	Lo w	VN	NT	-5.16	-0.006169	±2.5	PAS S
Band 26	5MHz	26915	16QA M	6	0	Lo w	VL	NT	-4.38	-0.005236	±2.5	PAS S
Band 26	5MHz	26915	16QA M	6	0	Lo w	VN	NT	-5.88	-0.007029	±2.5	PAS S
Band 26	5MHz	26915	16QA M	6	0	Lo w	VH	NT	-5.66	-0.006766	±2.5	PAS S
Band 26	5MHz	27015	QPS K	6	0	Hig h	VN	NT	4.84	0.005718	±2.5	PAS S
Band 26	5MHz	27015	QPS K	6	0	Hig h	VH	NT	5.29	0.0062	±2.5	PAS S

26			K			h				49		S
Band 26	5MHz	27015	QPS K	6	0	Hig h	VL	NT	3.85	0.0045 48	±2.5	PAS S
Band 26	5MHz	27015	16QA M	6	0	Hig h	VH	NT	4.05	0.0047 84	±2.5	PAS S
Band 26	5MHz	27015	16QA M	6	0	Hig h	VN	NT	3.98	0.0047 02	±2.5	PAS S
Band 26	5MHz	27015	16QA M	6	0	Hig h	VL	NT	4.91	0.0058 00	±2.5	PAS S
Band 26	10MHz	26740	QPS K	6	0	Lo w	VL	NT	-3.91	-0.0047 74	±2.5	PAS S
Band 26	10MHz	26740	QPS K	6	0	Lo w	VN	NT	5.08	0.0062 03	±2.5	PAS S
Band 26	10MHz	26740	QPS K	6	0	Lo w	VH	NT	-4.22	-0.0051 53	±2.5	PAS S
Band 26	10MHz	26740	16QA M	6	0	Lo w	VL	NT	5.64	0.0068 86	±2.5	PAS S
Band 26	10MHz	26740	16QA M	6	0	Lo w	VH	NT	5.32	0.0064 96	±2.5	PAS S
Band 26	10MHz	26740	16QA M	6	0	Lo w	VN	NT	5.21	0.0063 61	±2.5	PAS S
Band 26	10MHz	26840	QPS K	6	0	Lo w	VL	NT	4.42	0.0053 32	±2.5	PAS S
Band 26	10MHz	26840	QPS K	6	0	Lo w	VH	NT	4.65	0.0056 09	±2.5	PAS S
Band 26	10MHz	26840	QPS K	6	0	Lo w	VN	NT	5.68	0.0068 52	±2.5	PAS S
Band 26	10MHz	26840	16QA M	6	0	Lo w	VH	NT	2.59	0.0031 24	±2.5	PAS S
Band 26	10MHz	26840	16QA M	6	0	Lo w	VL	NT	4.86	0.0058 62	±2.5	PAS S
Band 26	10MHz	26840	16QA M	6	0	Lo w	VN	NT	5.97	0.0072 01	±2.5	PAS S
Band 26	10MHz	26915	QPS K	6	0	Lo w	VH	NT	4.48	0.0053 56	±2.5	PAS S
Band 26	10MHz	26915	QPS K	6	0	Lo w	VN	NT	5.08	0.0060 73	±2.5	PAS S

Band 26	10MHz	26915	QPS K	6	0	Low	VL	NT	3.55	0.004244	±2.5	PASS
Band 26	10MHz	26915	16QAM	6	0	Low	VN	NT	5.62	0.006718	±2.5	PASS
Band 26	10MHz	26915	16QAM	6	0	Low	VH	NT	7.00	0.008368	±2.5	PASS
Band 26	10MHz	26915	16QAM	6	0	Low	VL	NT	5.55	0.006635	±2.5	PASS
Band 26	10MHz	26990	QPS K	6	0	High	VH	NT	3.35	0.003969	±2.5	PASS
Band 26	10MHz	26990	QPS K	6	0	High	VL	NT	4.65	0.005509	±2.5	PASS
Band 26	10MHz	26990	QPS K	6	0	High	VN	NT	2.96	0.003507	±2.5	PASS
Band 26	10MHz	26990	16QAM	6	0	High	VN	NT	4.16	0.004929	±2.5	PASS
Band 26	10MHz	26990	16QAM	6	0	High	VL	NT	3.30	0.003910	±2.5	PASS
Band 26	10MHz	26990	16QAM	6	0	High	VH	NT	3.99	0.004727	±2.5	PASS
Band 26	15MHz	26865	QPS K	6	0	Low	VH	NT	3.69	0.004438	±2.5	PASS
Band 26	15MHz	26865	QPS K	6	0	Low	VL	NT	5.94	0.007144	±2.5	PASS
Band 26	15MHz	26865	QPS K	6	0	Low	VN	NT	5.11	0.006146	±2.5	PASS
Band 26	15MHz	26865	16QAM	6	0	Low	VN	NT	4.42	0.005316	±2.5	PASS
Band 26	15MHz	26865	16QAM	6	0	Low	VH	NT	4.51	0.005424	±2.5	PASS
Band 26	15MHz	26865	16QAM	6	0	Low	VL	NT	3.75	0.004510	±2.5	PASS
Band 26	15MHz	26915	QPS K	6	0	Low	VH	NT	-7.81	-0.009337	±2.5	PASS
Band 26	15MHz	26915	QPS K	6	0	Low	VN	NT	-8.00	-0.009564	±2.5	PASS
Band 26	15MHz	26915	QPS K	6	0	Low	VL	NT	-8.74	-0.0104	±2.5	PASS

26			K			w				48		S
Band 26	15MHz	26915	16QAM	6	0	Low	VH	NT	-6.19	-0.007400	±2.5	PASS
Band 26	15MHz	26915	16QAM	6	0	Low	VL	NT	-5.68	-0.006790	±2.5	PASS
Band 26	15MHz	26915	16QAM	6	0	Low	VN	NT	-6.59	-0.007878	±2.5	PASS
Band 26	15MHz	26965	QPSK	6	0	High	VH	NT	-4.29	-0.005098	±2.5	PASS
Band 26	15MHz	26965	QPSK	6	0	High	VN	NT	-5.06	-0.006013	±2.5	PASS
Band 26	15MHz	26965	QPSK	6	0	High	VL	NT	-5.56	-0.006607	±2.5	PASS
Band 26	15MHz	26965	16QAM	6	0	High	VN	NT	-5.11	-0.006072	±2.5	PASS
Band 26	15MHz	26965	16QAM	6	0	High	VL	NT	-5.34	-0.006346	±2.5	PASS
Band 26	15MHz	26965	16QAM	6	0	High	VH	NT	-4.11	-0.004884	±2.5	PASS
Band 66	1.4MHz	131979	QPSK	6	0	Low	VH	NT	-20.76	-0.012135	±2.5	PASS
Band 66	1.4MHz	131979	QPSK	6	0	Low	VL	NT	-47.11	-0.027538	±2.5	PASS
Band 66	1.4MHz	131979	QPSK	6	0	Low	VN	NT	-19.88	-0.011621	±2.5	PASS
Band 66	1.4MHz	131979	16QAM	6	0	Low	VH	NT	-47.68	-0.027872	±2.5	PASS
Band 66	1.4MHz	131979	16QAM	6	0	Low	VL	NT	-21.80	-0.012743	±2.5	PASS
Band 66	1.4MHz	131979	16QAM	6	0	Low	VN	NT	-19.00	-0.011107	±2.5	PASS
Band 66	1.4MHz	132322	QPSK	6	0	Low	VL	NT	-25.18	-0.014430	±2.5	PASS
Band 66	1.4MHz	132322	QPSK	6	0	Low	VN	NT	-23.65	-0.013553	±2.5	PASS
Band 66	1.4MHz	132322	QPSK	6	0	Low	VH	NT	-24.45	-0.014011	±2.5	PASS

Band 66	1.4MH z	132322	16QA M	6	0	Lo w	VN	NT	-25.85	-0.0148 14	±2.5	PAS S
Band 66	1.4MH z	132322	16QA M	6	0	Lo w	VH	NT	-12.40	-0.0071 06	±2.5	PAS S
Band 66	1.4MH z	132322	16QA M	6	0	Lo w	VL	NT	-11.74	-0.0067 28	±2.5	PAS S
Band 66	1.4MH z	132665	QPS K	6	0	Hig h	VH	NT	-15.45	-0.0086 83	±2.5	PAS S
Band 66	1.4MH z	132665	QPS K	6	0	Hig h	VN	NT	8.51	0.0047 83	±2.5	PAS S
Band 66	1.4MH z	132665	QPS K	6	0	Hig h	VL	NT	-13.92	-0.0078 23	±2.5	PAS S
Band 66	1.4MH z	132665	16QA M	6	0	Hig h	VN	NT	-9.70	-0.0054 52	±2.5	PAS S
Band 66	1.4MH z	132665	16QA M	6	0	Hig h	VL	NT	6.62	0.0037 21	±2.5	PAS S
Band 66	1.4MH z	132665	16QA M	6	0	Hig h	VH	NT	4.31	0.0024 22	±2.5	PAS S
Band 66	3MHz	131987	QPS K	6	0	Lo w	VN	NT	-19.20	-0.0112 18	±2.5	PAS S
Band 66	3MHz	131987	QPS K	6	0	Lo w	VL	NT	-12.83	-0.0074 96	±2.5	PAS S
Band 66	3MHz	131987	QPS K	6	0	Lo w	VH	NT	-15.55	-0.0090 86	±2.5	PAS S
Band 66	3MHz	131987	16QA M	6	0	Lo w	VN	NT	-17.77	-0.0103 83	±2.5	PAS S
Band 66	3MHz	131987	16QA M	6	0	Lo w	VL	NT	-15.35	-0.0089 69	±2.5	PAS S
Band 66	3MHz	131987	16QA M	6	0	Lo w	VH	NT	6.28	0.0036 69	±2.5	PAS S
Band 66	3MHz	132322	QPS K	6	0	Lo w	VL	NT	-12.30	-0.0070 49	±2.5	PAS S
Band 66	3MHz	132322	QPS K	6	0	Lo w	VH	NT	-16.99	-0.0097 36	±2.5	PAS S
Band 66	3MHz	132322	QPS K	6	0	Lo w	VN	NT	-11.27	-0.0064 58	±2.5	PAS S
Band 66	3MHz	132322	16QA	6	0	Lo	VL	NT	-15.22	-0.0087	±2.5	PAS

66			M			w				22		S
Band 66	3MHz	132322	16QAM	6	0	Low	VH	NT	-13.88	-0.007954	±2.5	PASS
Band 66	3MHz	132322	16QAM	6	0	Low	VN	NT	-4.99	-0.002860	±2.5	PASS
Band 66	3MHz	132657	QPSK	6	0	High	VN	NT	-14.13	-0.007945	±2.5	PASS
Band 66	3MHz	132657	QPSK	6	0	High	VL	NT	-15.82	-0.008895	±2.5	PASS
Band 66	3MHz	132657	QPSK	6	0	High	VH	NT	-22.17	-0.012466	±2.5	PASS
Band 66	3MHz	132657	16QAM	6	0	High	VH	NT	-14.25	-0.008012	±2.5	PASS
Band 66	3MHz	132657	16QAM	6	0	High	VL	NT	-12.35	-0.006944	±2.5	PASS
Band 66	3MHz	132657	16QAM	6	0	High	VN	NT	-8.93	-0.005021	±2.5	PASS
Band 66	5MHz	131997	QPSK	6	0	Low	VL	NT	-6.07	-0.003545	±2.5	PASS
Band 66	5MHz	131997	QPSK	6	0	Low	VH	NT	-8.17	-0.004771	±2.5	PASS
Band 66	5MHz	131997	QPSK	6	0	Low	VN	NT	-11.46	-0.006692	±2.5	PASS
Band 66	5MHz	131997	16QAM	6	0	Low	VN	NT	-11.86	-0.006926	±2.5	PASS
Band 66	5MHz	131997	16QAM	6	0	Low	VH	NT	-8.91	-0.005203	±2.5	PASS
Band 66	5MHz	131997	16QAM	6	0	Low	VL	NT	-7.55	-0.004409	±2.5	PASS
Band 66	5MHz	132322	QPSK	6	0	Low	VN	NT	-6.57	-0.003765	±2.5	PASS
Band 66	5MHz	132322	QPSK	6	0	Low	VL	NT	5.11	0.002928	±2.5	PASS
Band 66	5MHz	132322	QPSK	6	0	Low	VH	NT	5.85	0.003352	±2.5	PASS
Band 66	5MHz	132322	16QAM	6	0	Low	VN	NT	-4.94	-0.002831	±2.5	PASS

Band 66	5MHz	132322	16QAM	6	0	Low	VL	NT	6.02	0.003450	±2.5	PASS
Band 66	5MHz	132322	16QAM	6	0	Low	VH	NT	3.55	0.002034	±2.5	PASS
Band 66	5MHz	132647	QPSK	6	0	High	VH	NT	7.55	0.004248	±2.5	PASS
Band 66	5MHz	132647	QPSK	6	0	High	VL	NT	9.10	0.005120	±2.5	PASS
Band 66	5MHz	132647	QPSK	6	0	High	VN	NT	10.17	0.005722	±2.5	PASS
Band 66	5MHz	132647	16QAM	6	0	High	VN	NT	7.55	0.004248	±2.5	PASS
Band 66	5MHz	132647	16QAM	6	0	High	VL	NT	9.80	0.005513	±2.5	PASS
Band 66	5MHz	132647	16QAM	6	0	High	VH	NT	7.22	0.004062	±2.5	PASS
Band 66	10MHz	132022	QPSK	6	0	Low	VN	NT	5.42	0.003160	±2.5	PASS
Band 66	10MHz	132022	QPSK	6	0	Low	VL	NT	7.51	0.004379	±2.5	PASS
Band 66	10MHz	132022	QPSK	6	0	Low	VH	NT	9.67	0.005638	±2.5	PASS
Band 66	10MHz	132022	16QAM	6	0	Low	VL	NT	6.18	0.003603	±2.5	PASS
Band 66	10MHz	132022	16QAM	6	0	Low	VH	NT	10.99	0.006408	±2.5	PASS
Band 66	10MHz	132022	16QAM	6	0	Low	VN	NT	7.47	0.004356	±2.5	PASS
Band 66	10MHz	132322	QPSK	6	0	Low	VL	NT	11.34	0.006499	±2.5	PASS
Band 66	10MHz	132322	QPSK	6	0	Low	VN	NT	7.45	0.004269	±2.5	PASS
Band 66	10MHz	132322	QPSK	6	0	Low	VH	NT	8.20	0.004699	±2.5	PASS
Band 66	10MHz	132322	16QAM	6	0	Low	VH	NT	8.90	0.005100	±2.5	PASS
Band 66	10MHz	132322	16QAM	6	0	Low	VN	NT	9.46	0.0054	±2.5	PASS

66			M			w				21		S
Band 66	10MHz	132322	16QAM	6	0	Low	VL	NT	10.51	0.006023	±2.5	PASS
Band 66	10MHz	132622	QPSK	6	0	High	VN	NT	9.86	0.005555	±2.5	PASS
Band 66	10MHz	132622	QPSK	6	0	High	VL	NT	10.66	0.006006	±2.5	PASS
Band 66	10MHz	132622	QPSK	6	0	High	VH	NT	9.64	0.005431	±2.5	PASS
Band 66	10MHz	132622	16QAM	6	0	High	VL	NT	5.84	0.003290	±2.5	PASS
Band 66	10MHz	132622	16QAM	6	0	High	VH	NT	7.48	0.004214	±2.5	PASS
Band 66	10MHz	132622	16QAM	6	0	High	VN	NT	9.33	0.005256	±2.5	PASS
Band 66	15MHz	132047	QPSK	6	0	Low	VN	NT	-4.33	-0.002521	±2.5	PASS
Band 66	15MHz	132047	QPSK	6	0	Low	VH	NT	6.74	0.003924	±2.5	PASS
Band 66	15MHz	132047	QPSK	6	0	Low	VL	NT	6.75	0.003930	±2.5	PASS
Band 66	15MHz	132047	16QAM	6	0	Low	VN	NT	8.15	0.004745	±2.5	PASS
Band 66	15MHz	132047	16QAM	6	0	Low	VH	NT	9.28	0.005403	±2.5	PASS
Band 66	15MHz	132047	16QAM	6	0	Low	VL	NT	8.33	0.004850	±2.5	PASS
Band 66	15MHz	132322	QPSK	6	0	Low	VN	NT	-7.77	-0.004453	±2.5	PASS
Band 66	15MHz	132322	QPSK	6	0	Low	VH	NT	-8.41	-0.004819	±2.5	PASS
Band 66	15MHz	132322	QPSK	6	0	Low	VL	NT	-6.12	-0.003507	±2.5	PASS
Band 66	15MHz	132322	16QAM	6	0	Low	VL	NT	-3.96	-0.002269	±2.5	PASS
Band 66	15MHz	132322	16QAM	6	0	Low	VH	NT	-7.60	-0.004355	±2.5	PASS

Band 66	15MHz	132322	16QAM	6	0	Low	VN	NT	4.56	0.002613	±2.5	PASS
Band 66	15MHz	132597	QPSK	6	0	High	VH	NT	-15.59	-0.008795	±2.5	PASS
Band 66	15MHz	132597	QPSK	6	0	High	VL	NT	-13.52	-0.007628	±2.5	PASS
Band 66	15MHz	132597	QPSK	6	0	High	VN	NT	-13.82	-0.007797	±2.5	PASS
Band 66	15MHz	132597	16QAM	6	0	High	VL	NT	-15.52	-0.008756	±2.5	PASS
Band 66	15MHz	132597	16QAM	6	0	High	VN	NT	-12.79	-0.007216	±2.5	PASS
Band 66	15MHz	132597	16QAM	6	0	High	VH	NT	-14.92	-0.008417	±2.5	PASS
Band 66	20MHz	132072	QPSK	6	0	Low	VH	NT	-17.18	-0.009988	±2.5	PASS
Band 66	20MHz	132072	QPSK	6	0	Low	VN	NT	-8.44	-0.004907	±2.5	PASS
Band 66	20MHz	132072	QPSK	6	0	Low	VL	NT	-14.20	-0.008256	±2.5	PASS
Band 66	20MHz	132072	16QAM	6	0	Low	VH	NT	-15.11	-0.008785	±2.5	PASS
Band 66	20MHz	132072	16QAM	6	0	Low	VN	NT	-12.95	-0.007529	±2.5	PASS
Band 66	20MHz	132072	16QAM	6	0	Low	VL	NT	-13.30	-0.007733	±2.5	PASS
Band 66	20MHz	132322	QPSK	6	0	Low	VH	NT	3.81	0.002183	±2.5	PASS
Band 66	20MHz	132322	QPSK	6	0	Low	VL	NT	-7.37	-0.004223	±2.5	PASS
Band 66	20MHz	132322	QPSK	6	0	Low	VN	NT	-9.53	-0.005461	±2.5	PASS
Band 66	20MHz	132322	16QAM	6	0	Low	VH	NT	-8.35	-0.004785	±2.5	PASS
Band 66	20MHz	132322	16QAM	6	0	Low	VL	NT	-5.14	-0.002946	±2.5	PASS
Band 66	20MHz	132322	16QAM	6	0	Low	VN	NT	-8.33	-0.0047	±2.5	PASS

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Band 66	20MHz	132572	QPSK	6	0	High	VH	NT	8.28	0.004678	±2.5	PASS
Band 66	20MHz	132572	QPSK	6	0	High	VL	NT	8.87	0.005011	±2.5	PASS
Band 66	20MHz	132572	QPSK	6	0	High	VN	NT	9.43	0.005328	±2.5	PASS
Band 66	20MHz	132572	16QAM	6	0	High	VL	NT	5.88	0.003322	±2.5	PASS
Band 66	20MHz	132572	16QAM	6	0	High	VN	NT	10.00	0.005650	±2.5	PASS
Band 66	20MHz	132572	16QAM	6	0	High	VH	NT	7.84	0.004429	±2.5	PASS
Band 85	5MHz	134027	QPSK	6	0	Low	VL	NT	3.09	0.004411	±2.5	PASS
Band 85	5MHz	134027	QPSK	6	0	Low	VH	NT	2.36	0.003369	±2.5	PASS
Band 85	5MHz	134027	QPSK	6	0	Low	VN	NT	2.85	0.004069	±2.5	PASS
Band 85	5MHz	134027	16QAM	6	0	Low	VH	NT	3.08	0.004397	±2.5	PASS
Band 85	5MHz	134027	16QAM	6	0	Low	VL	NT	-1.90	-0.002712	±2.5	PASS
Band 85	5MHz	134027	16QAM	6	0	Low	VN	NT	4.39	0.006267	±2.5	PASS
Band 85	5MHz	134092	QPSK	6	0	Low	VN	NT	3.98	0.005629	±2.5	PASS
Band 85	5MHz	134092	QPSK	6	0	Low	VL	NT	3.52	0.004979	±2.5	PASS
Band 85	5MHz	134092	QPSK	6	0	Low	VH	NT	6.19	0.008755	±2.5	PASS
Band 85	5MHz	134092	16QAM	6	0	Low	VH	NT	5.65	0.007992	±2.5	PASS
Band 85	5MHz	134092	16QAM	6	0	Low	VL	NT	5.08	0.007185	±2.5	PASS
Band 85	5MHz	134092	16QAM	6	0	Low	VN	NT	4.12	0.005827	±2.5	PASS

Band 85	5MHz	134157	QPS K	6	0	Hig h	VH	NT	-6.04	-0.0084 65	±2.5	PAS S
Band 85	5MHz	134157	QPS K	6	0	Hig h	VL	NT	-7.20	-0.0100 91	±2.5	PAS S
Band 85	5MHz	134157	QPS K	6	0	Hig h	VN	NT	-6.05	-0.0084 79	±2.5	PAS S
Band 85	5MHz	134157	16QA M	6	0	Hig h	VL	NT	-6.34	-0.0088 86	±2.5	PAS S
Band 85	5MHz	134157	16QA M	6	0	Hig h	VN	NT	-5.74	-0.0080 45	±2.5	PAS S
Band 85	5MHz	134157	16QA M	6	0	Hig h	VH	NT	-5.69	-0.0079 75	±2.5	PAS S
Band 85	10MHz	134052	QPS K	6	0	Lo w	VL	NT	5.97	0.0084 92	±2.5	PAS S
Band 85	10MHz	134052	QPS K	6	0	Lo w	VH	NT	4.84	0.0068 85	±2.5	PAS S
Band 85	10MHz	134052	QPS K	6	0	Lo w	VN	NT	5.87	0.0083 50	±2.5	PAS S
Band 85	10MHz	134052	16QA M	6	0	Lo w	VN	NT	5.81	0.0082 65	±2.5	PAS S
Band 85	10MHz	134052	16QA M	6	0	Lo w	VL	NT	4.81	0.0068 42	±2.5	PAS S
Band 85	10MHz	134052	16QA M	6	0	Lo w	VH	NT	5.19	0.0073 83	±2.5	PAS S
Band 85	10MHz	134092	QPS K	6	0	Lo w	VH	NT	11.36	0.0160 68	±2.5	PAS S
Band 85	10MHz	134092	QPS K	6	0	Lo w	VL	NT	14.13	0.0199 86	±2.5	PAS S
Band 85	10MHz	134092	QPS K	6	0	Lo w	VN	NT	10.14	0.0143 42	±2.5	PAS S
Band 85	10MHz	134092	16QA M	6	0	Lo w	VN	NT	11.90	0.0168 32	±2.5	PAS S
Band 85	10MHz	134092	16QA M	6	0	Lo w	VL	NT	12.13	0.0171 57	±2.5	PAS S
Band 85	10MHz	134092	16QA M	6	0	Lo w	VH	NT	11.53	0.0163 08	±2.5	PAS S
Band 85	10MHz	134132	QPS K	6	0	Hig h	VN	NT	8.75	0.0123	±2.5	PAS S

85			K			h				07		S
Band 85	10MHz	134132	QPSK	6	0	High	VL	NT	7.65	0.010759	±2.5	PASS
Band 85	10MHz	134132	QPSK	6	0	High	VH	NT	6.19	0.008706	±2.5	PASS
Band 85	10MHz	134132	16QAM	6	0	High	VH	NT	8.13	0.011435	±2.5	PASS
Band 85	10MHz	134132	16QAM	6	0	High	VN	NT	7.28	0.010239	±2.5	PASS
Band 85	10MHz	134132	16QAM	6	0	High	VL	NT	7.50	0.010549	±2.5	PASS

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 25	20MHz	26140	QPSK	6	0	Low	VN	NT	-14.73	-0.007919	±2.5	PASS
Band 25	20MHz	26140	QPSK	6	0	Low	VL	NT	-16.18	-0.008699	±2.5	PASS
Band 25	20MHz	26140	QPSK	6	0	Low	VH	NT	-16.89	-0.009081	±2.5	PASS
Band 25	20MHz	26365	QPSK	6	0	Low	VN	NT	-14.58	-0.007745	±2.5	PASS
Band 25	20MHz	26365	QPSK	6	0	Low	VH	NT	-12.96	-0.006884	±2.5	PASS
Band 25	20MHz	26365	QPSK	6	0	Low	VL	NT	-12.66	-0.006725	±2.5	PASS
Band 25	20MHz	26590	QPSK	6	0	High	VN	NT	-11.37	-0.005969	±2.5	PASS
Band 25	20MHz	26590	QPSK	6	0	High	VL	NT	-12.25	-0.006430	±2.5	PASS
Band 25	20MHz	26590	QPSK	6	0	High	VH	NT	-15.25	-0.008005	±2.5	PASS
Band 25	20MHz	26140	16QAM	6	0	Low	VL	NT	-16.94	-0.009108	±2.5	PASS
Band 25	20MHz	26140	16QAM	6	0	Low	VN	NT	-12.95	-0.006962	±2.5	PASS

Band 25	20MHz	26140	16QA M	6	0	Low	VH	NT	-14.51	-0.0078 01	±2.5	PAS S
Band 25	20MHz	26365	16QA M	6	0	Low	VN	NT	-14.19	-0.0075 38	±2.5	PAS S
Band 25	20MHz	26365	16QA M	6	0	Low	VL	NT	-12.80	-0.0067 99	±2.5	PAS S
Band 25	20MHz	26365	16QA M	6	0	Low	VH	NT	-13.70	-0.0072 78	±2.5	PAS S
Band 25	20MHz	26590	16QA M	6	0	Hig h	VH	NT	-11.17	-0.0058 64	±2.5	PAS S
Band 25	20MHz	26590	16QA M	6	0	Hig h	VN	NT	-13.40	-0.0070 34	±2.5	PAS S
Band 25	20MHz	26590	16QA M	6	0	Hig h	VL	NT	-12.59	-0.0066 09	±2.5	PAS S

4.8 AC Conducted Emission Measurement

4.8.1 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 Range	Quasi Peak(dB μ V)	Average(dB μ V)
0.15-0.5	66 to 56*	56-46
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

4.8.2 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room 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 should 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. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

4.8.3 Test Result

N/A

5 Radiated Test Items

5.1 Radiated Spurious Emission

5.1.1 Description of the Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-E-2016. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

5.1.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E-2016 Section 2.2.12.

Below 1GHz test procedure as below:

1. The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
2. Make the measurement with the spectrum analyzer's RBW = 100KHz, VBW = 100KHz, taking record of maximum spurious emission.
3. The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
4. Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
5. The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
6. A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
7. The output power into the substitution antenna was then measured.
8. Steps 5) and 6) were repeated with both antennas polarized.
9. Calculate power in dBm by the following formula:

$$ERP(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)} - 2.15$$

Where:

P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to P_g [dBm] – cable loss [dB]. The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power [Watts]})$.

10. For Band 7, 38, 41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P (Watts)

Above 1GHz test procedure as below:

1. The EUT was powered ON and placed on a 150cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
2. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
3. The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
4. Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
5. The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
6. A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
7. The output power into the substitution antenna was then measured.
8. Steps 5) and 6) were repeated with both antennas polarized.
9. Calculate power in dBm by the following formula:

$$EIRP(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

Where:

P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to P_g [dBm] – cable loss [dB]. The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power [Watts]})$. $EIRP(\text{dBm}) = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna}$

Gain

11. $ERP \text{ (dBm)} = EIRP - 2.15$

12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

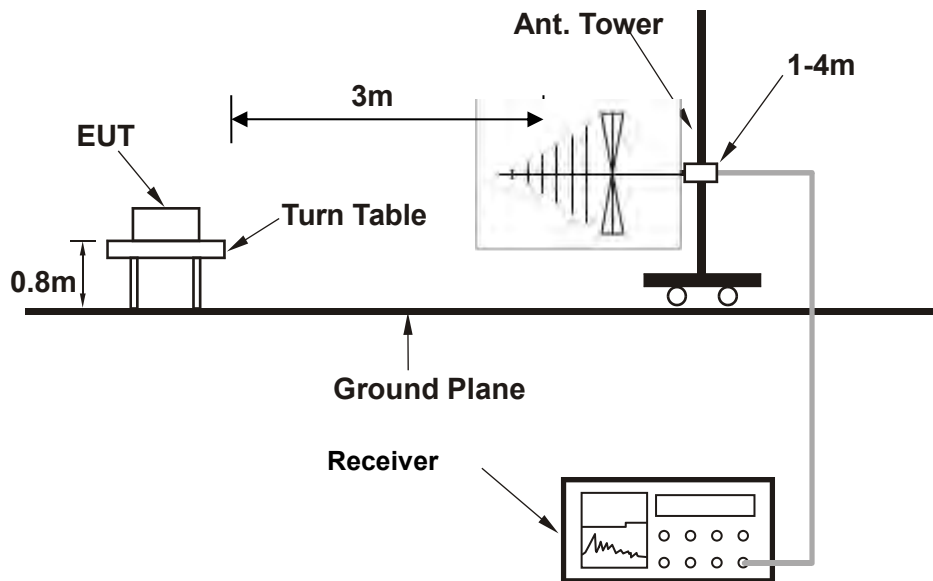
$$= -13\text{dBm}.$$

13. For Band 7, 38, 41:

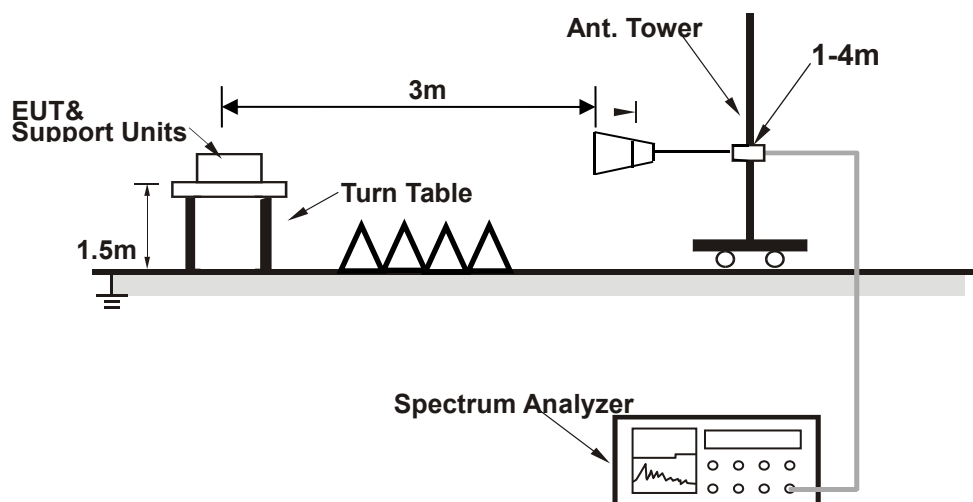
The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$

5.1.3 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



5.1.4 Test Results

Refer to Appendix A of this test report.

5.2 Receiver Spurious Emission

5.2.1 Limit of Receiver Spurious Emission

Frequency range (MHz)	Distance (Meters)	Field Strength (microvolts/meter)
30 ~ 88	3	100
88~216	3	150
216-960	3	200
Above 960	3	500

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and periphery of the EUT.

(3) On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function, unless otherwise specified.

(4) Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

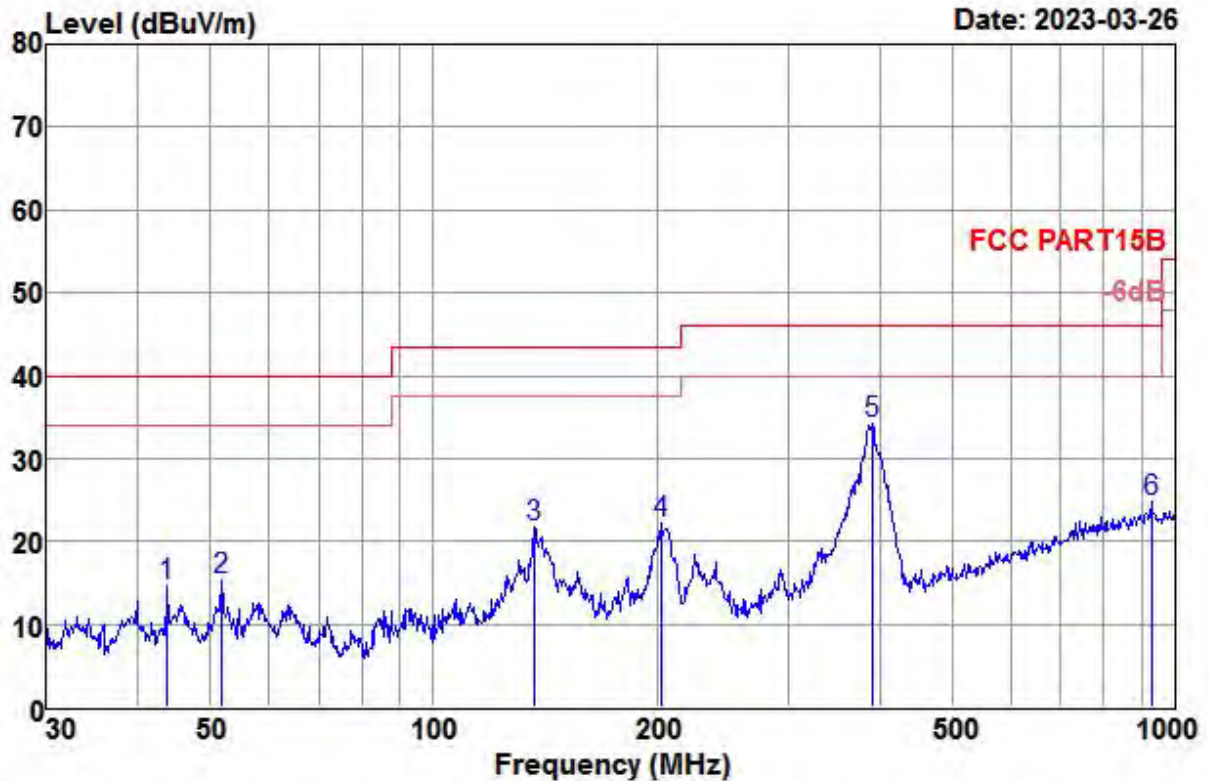
5.2.2 Test Procedures

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual.
2. Support equipment, if needed, was placed as per FCC 15B. All I/O cables were positioned to simulate typical actual usage as per FCC 15B.
3. The EUT was placed on a turntable with 0.8 meter 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. For each suspected emission, 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.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

5.2.3 Test Result

Test Mode :	Mode 1	Temperature :	21°C
Test Engineer :	Jack Liu	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

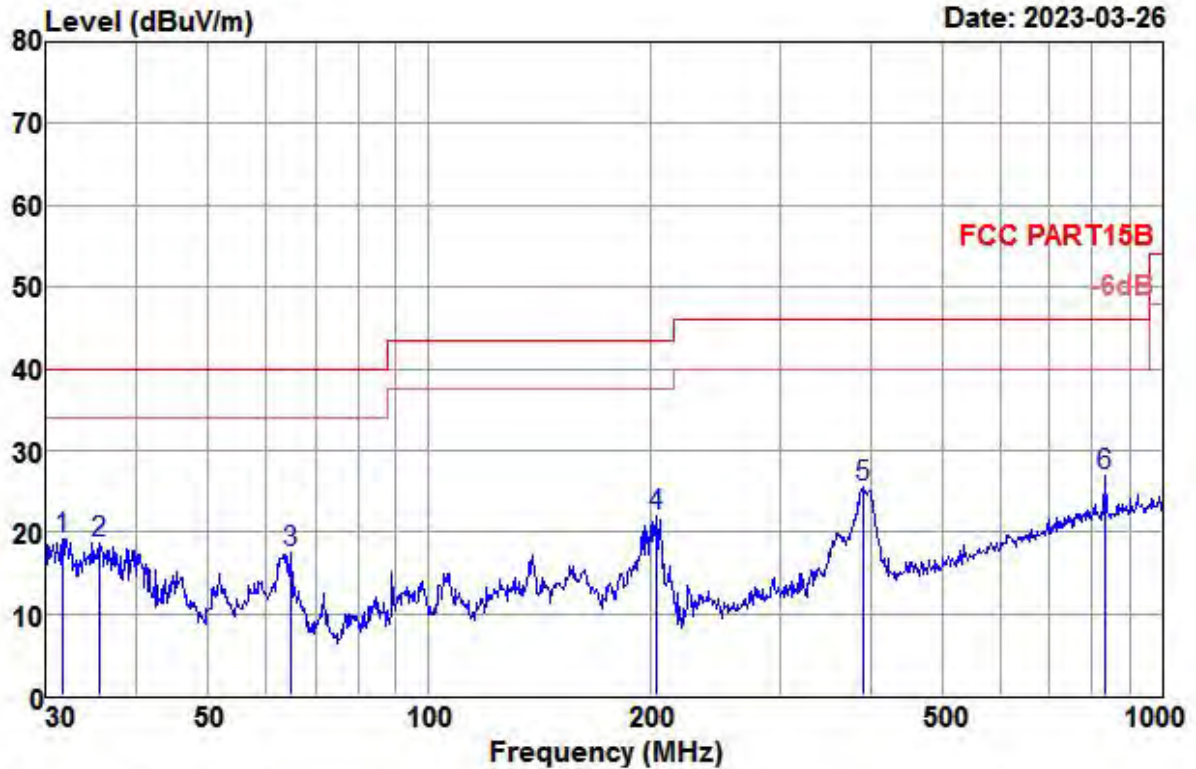
- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- A notch filter has been used for main frequency



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
43.812	30.90	15.04	1.24	32.65	14.53	40.00	-25.47	QP
51.662	31.14	15.39	1.36	32.65	15.24	40.00	-24.76	QP
136.939	38.76	13.46	2.23	32.66	21.79	43.50	-21.71	QP
202.810	42.00	10.15	2.75	32.67	22.23	43.50	-21.27	QP
389.355	48.09	14.92	3.85	32.73	34.13	46.00	-11.87	QP
929.008	28.07	22.41	6.31	32.06	24.73	46.00	-21.27	QP

Test Mode :	Mode 1	Temperature :	21°C
Test Engineer :	Jack Liu	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

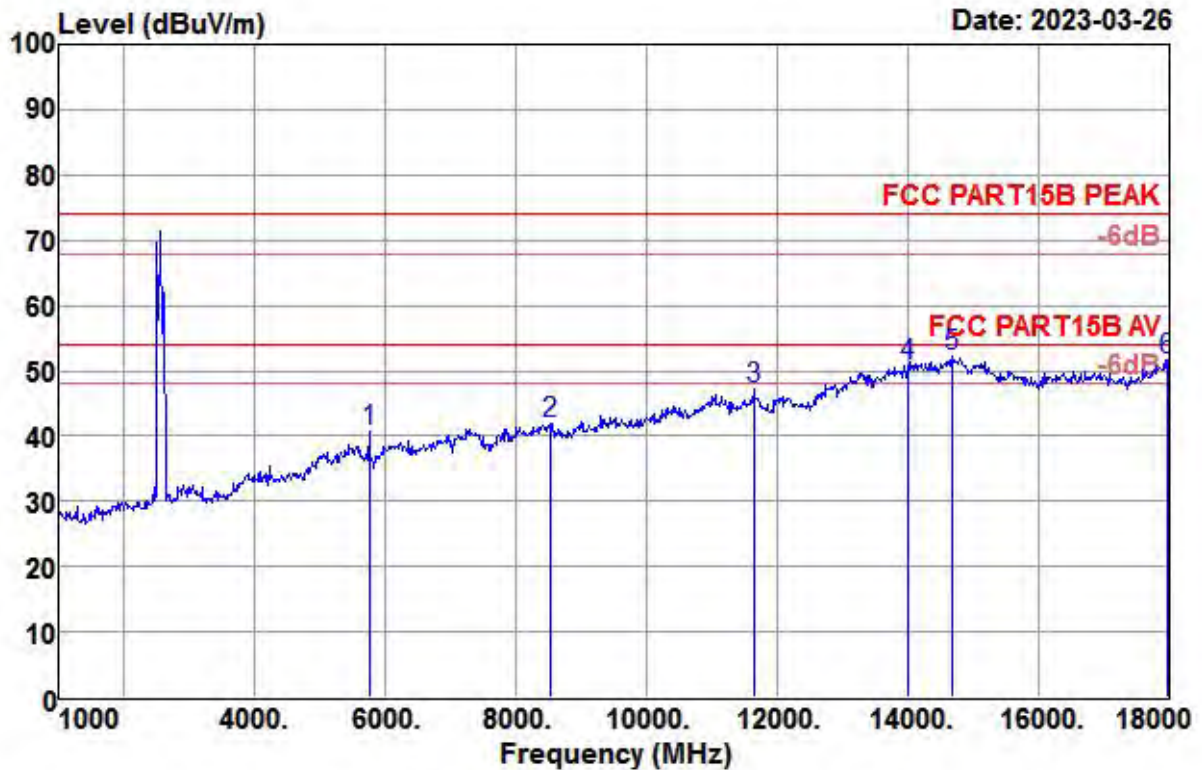
- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- A notch filter has been used for main frequency



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
31.620	37.43	13.78	0.66	32.65	19.22	40.00	-20.78	QP
35.624	36.24	13.86	1.20	32.65	18.65	40.00	-21.35	QP
64.659	34.90	13.71	1.49	32.65	17.45	40.00	-22.55	QP
203.523	41.75	10.14	2.76	32.67	21.98	43.50	-21.52	QP
389.355	39.53	14.92	3.85	32.73	25.57	46.00	-20.43	QP
833.317	31.92	21.18	6.00	32.20	26.90	46.00	-19.10	QP

Test Mode :	Mode 1	Temperature :	21°C
Test Engineer :	Jack Liu	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Horizontal

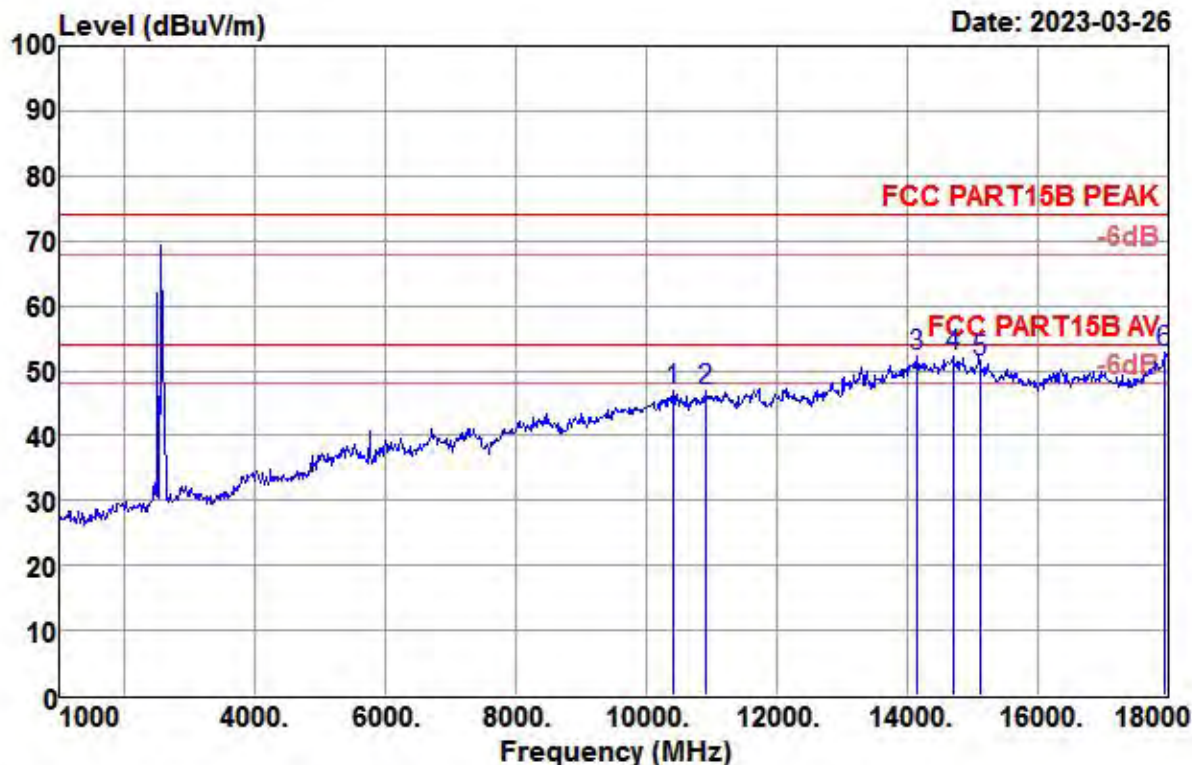
- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- The highest point is the main frequency signal, please ignore it



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
5760.000	36.84	32.02	7.02	35.14	40.74	74.00	-33.26	Peak
8531.000	30.07	36.26	10.13	34.52	41.94	74.00	-32.06	Peak
11642.000	25.21	39.42	15.44	32.87	47.20	74.00	-26.80	Peak
13988.000	22.59	40.09	20.27	32.10	50.85	74.00	-23.15	Peak
14685.000	24.44	40.41	19.74	32.31	52.28	74.00	-21.72	Peak
17983.000	19.92	46.92	15.59	30.79	51.64	74.00	-22.36	Peak

Test Mode :	Mode 1	Temperature :	21°C
Test Engineer :	Jack Liu	Relative Humidity :	63%
Test Distance :	3m	Polarization :	Vertical

- Emission level (dBμV/m) = 20 log Emission level (μV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- The highest point is the main frequency signal, please ignore it



Freq MHz	Reading level dBUV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBUV/m	Limit level dBUV/m	Over limit dB	Remark
10401.000	28.30	39.26	13.21	33.84	46.93	74.00	-27.07	Peak
10911.000	25.20	39.81	15.13	33.12	47.02	74.00	-26.98	Peak
14158.000	24.13	40.26	20.03	32.15	52.27	74.00	-21.73	Peak
14702.000	24.41	40.40	19.77	32.31	52.27	74.00	-21.73	Peak
15110.000	23.77	39.75	20.26	32.29	51.49	74.00	-22.51	Peak
17949.000	21.40	46.56	15.58	30.76	52.78	74.00	-21.22	Peak

6 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV 40	101433	2022-12-26	2023-12-25	Conducted
Spectrum Analyzer	Keysight	N9010A	MY56070788	2022-12-26	2023-12-25	Conducted
Base Station	R&S	CMW500	164998	2022-12-26	2023-12-25	Conducted
Thermal Chamber	Howkin	UHL-34	19111801	2022-12-23	2023-12-22	Conducted
Signal Generator (Interferer)	Keysight	N5182B	MY56200384	2022-12-26	2023-12-25	Conducted
Signal Generator (Blocker)	Keysight	N5171B	MY56200661	2022-12-26	2023-12-25	Conducted
Spectrum Analyzer	R&S	FSV 30	103728	2022-12-26	2023-12-25	Radiation
Amplifier	Sonoma	310	363917	2022-12-26	2023-12-25	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2022-12-27	2023-12-26	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2023-01-04	2024-01-03	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	2023-02-12	2026-02-11	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2020-09-27	2023-09-26	Radiation
Bilog Antenna	TeseQ	CBL6112D	23188	2021-04-24	2024-04-23	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	1677	2023-02-12	2026-02-11	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	02420	2021-12-26	2024-12-25	Radiation
Horn Antenna	R&S	9120 D	1285	2021-01-06	2024-01-05	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2021-06-05	2024-06-04	Radiation
Signal Generator (Blocker)	R&S	SMB100A	180717	2022-12-26	2023-12-25	Radiation
Test Software	Audix	E3	6.111221a	N/A	N/A	Radiation

N/A: No Calibration Required

7 Uncertainty of Evaluation

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	3.29dB
Radiated emissions	30MHz ~ 1GHz	2.21dB
	1GHz ~ 18GHz	3.31dB
	18GHz ~ 40GHz	4.15dB

Appendix A. Test Results of Radiated Test

Radiated Spurious Emission @FQ02-ANT-BAT

GSM 850 (GPRS)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2550	-30.54	-13	-17.54	-39.08	-37.33	3.61	10.40	H
	5760	-30.37	-13	-17.37	-43.39	-38.01	5.87	13.51	H
	8415	-44.35	-13	-31.35	-65.68	-49.03	6.94	11.62	H
	2520	-32.74	-13	-19.74	-40.95	-39.61	3.52	10.39	V
	5760	-28.34	-13	-15.34	-41.38	-35.98	5.87	13.51	V
	8407.5	-44.15	-13	-31.15	-65.75	-49.01	6.71	11.57	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for GPRS and EGPRS were detected, only reported the worst case mode as above.

GSM 1900 (GPRS)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	10350	-40.85	-13	-27.85	-66.53	-44.99	7.38	11.52	H
	15075	-34.87	-13	-21.87	-66.62	-38.23	10.35	13.71	H
	17925	-27.69	-13	-14.69	-69.14	-30.03	10.98	13.32	H
	11175	-39.84	-13	-26.84	-68.04	-43.74	7.85	11.75	V
	15030	-35.52	-13	-22.52	-67.85	-39.00	10.26	13.74	V
	17910	-27.28	-13	-14.28	-68.69	-29.93	10.78	13.43	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for GPRS and EGPRS were detected, only reported the worst case mode as above.

LTE Band 2 (1.4MHz Bandwidth)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	8325	-44.13	-13	-31.13	-64.98	-49.15	6.61	11.63	H
	15075	-36.08	-13	-23.08	-67.72	-38.87	10.45	13.24	H
	17970	-26.37	-13	-13.37	-68.59	-29.02	10.93	13.58	H
	11025	-38.29	-13	-25.29	-66.88	-42.05	7.68	11.44	V
	15045	-35.01	-13	-22.01	-67.01	-37.82	10.42	13.23	V
	17955	-27.18	-13	-14.18	-68.95	-29.87	10.98	13.67	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above

LTE Band 4 (5MHz Bandwidth)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3480	-46.24	-13	-33.24	-55.23	-54.63	4.24	12.63	H
	6990	-37.13	-13	-24.13	-55.03	-43.10	6.28	12.25	H
	10455	-36.27	-13	-23.27	-62.67	-40.17	7.31	11.21	H
	6975	-29.01	-13	-16.01	-47.04	-35.03	6.41	12.43	V
	10455	-35.47	-13	-22.47	-61.37	-39.15	7.53	11.21	V
	17955	-27.34	-13	-14.34	-69.18	-30.2	10.48	13.34	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 5 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1680	-45.23	-13	-32.23	-52.06	-51.87	2.86	9.5	H
	2520	-52.17	-13	-39.17	-60.65	-59.02	3.62	10.47	H
	8392.5	-43.38	-13	-30.38	-64.90	-49.08	6.84	12.54	H
	2032.5	-53.24	-13	-40.24	-60.54	-59.56	3.26	9.58	V
	3382.5	-50.36	-13	-37.36	-58.74	-57.46	4.47	11.57	V
	4230	-43.87	-13	-30.87	-54.47	-51.53	4.92	12.58	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 12 (1.4MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2145	-42.84	-13	-29.84	-50.41	-48.99	3.63	9.78	H
	3082.5	-52.67	-13	-39.67	-59.91	-59.86	3.95	11.14	H
	8407.5	-43.35	-13	-30.35	-64.90	-48.86	6.84	12.35	H
	2332.5	-34.01	-13	-21.01	-42.07	-40.52	3.72	10.23	V
	3082.5	-52.39	-13	-39.39	-59.86	-59.58	3.95	11.14	V
	8475	-43.28	-13	-30.28	-65.23	-48.76	6.91	12.39	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 13 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1567.5	-42.57	-13	-29.57	-49.32	-48.53	2.86	8.82	H
	1567.5	-43.18	-40	-3.18	-49.32	-49.14	2.86	8.82	H
	3990	-53.29	-13	-40.29	-62.95	-61.49	4.61	12.81	H
	8467.5	-43.24	-13	-30.24	-64.37	-49.13	6.74	12.63	H
	1552.5	-41.26	-13	-28.26	-48.00	-47.25	2.74	8.73	V
	1567.5	-44.25	-40	-4.25	-50.47	-50.21	2.86	8.82	V
	7770	-45.37	-13	-32.37	-66.91	-50.55	6.58	11.76	V
	8400	-42.35	-13	-29.35	-64.24	-48.60	6.53	12.78	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 25 (1.4MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3765	-48.59	-13	-35.59	-58.47	-56.89	3.97	12.27	H
	5640	-41.76	-13	-28.76	-54.42	-49.59	5.65	13.48	H
	10380	-40.27	-13	-27.27	-66.39	-44.23	7.58	11.54	H
	3750	-50.34	-13	-37.34	-59.9	-58.46	4.41	12.53	V
	5640	-38.68	-13	-25.68	-51.09	-46.44	5.65	13.41	V
	14670	-36.02	-13	-23.02	-67.32	-38.37	10.62	12.97	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 26 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1687.5	-54.23	-13	-41.23	-60.94	-60.29	2.92	8.98	H
	5062.5	-50.84	-13	-37.84	-61.81	-58.66	5.42	13.24	H
	8490	-44.24	-13	-31.24	-65.37	-49.88	6.78	12.42	H
	2332.5	-48.26	-13	-35.26	-56.06	-56.17	4.98	12.89	V
	5062.5	-49.08	-13	-36.08	-60.15	-56.89	5.43	13.24	V
	8460	-43.64	-13	-30.64	-65.45	-49.00	6.77	12.13	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band66 (20MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3435	-40.13	-13	-27.13	-48.78	-48.86	4.12	12.85	H
	5160	-37.36	-13	-24.36	-48.54	-44.80	5.58	13.02	H
	6885	-43.19	-13	-30.19	-60.63	-49.07	6.39	12.27	H
	3450	-42.18	-13	-29.18	-51.01	-50.8	4.25	12.87	V
	5160	-32.36	-13	-19.36	-43.33	-39.8	5.58	13.02	V
	6885	-44.12	-13	-31.12	-61.84	-50	6.39	12.27	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 85 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2115	-31.84	-13	-18.84	-39.64	-38.62	3.35	10.13	H
	3525	-36.35	-13	-23.35	-45.47	-44.75	4.23	12.63	H
	6352.5	-45.27	-13	-32.27	-60.81	-51.77	6.07	12.57	H
	2115	-29.23	-13	-16.23	-36.97	-36.01	3.35	10.13	V
	3525	-50.27	-13	-37.27	-59.41	-58.67	4.23	12.63	V
	4935	-51.35	-13	-38.35	-62.17	-58.92	5.34	12.91	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

Radiated Spurious Emission @FQ02-BAT

GSM 850 (GPRS)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2467.5	-28.84	-13	-15.84	-37.03	-35.49	3.67	10.32	H
	5767.5	-26.13	-13	-13.13	-39.03	-33.28	6.12	13.27	H
	8472.5	-44.28	-13	-31.28	-65.57	-50.05	6.85	12.62	H
	2467.5	-30.24	-13	-17.24	-38.64	-36.89	3.67	10.32	V
	5767.5	-25.39	-13	-12.39	-38.24	-32.54	6.12	13.27	V
	8467.5	-43.58	-13	-30.58	-65.53	-49.38	6.73	12.53	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for GPRS and EGPRS were detected, only reported the worst case mode as above.

GSM 1900 (GPRS)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7275	-46.23	-13	-33.23	-66.13	-51.13	6.62	11.52	H
	9120	-44.02	-13	-31.02	-67.31	-48.13	7.18	11.29	H
	15045	-35.28	-13	-22.28	-67.01	-38.55	10.25	13.52	H
	8445	-43.56	-13	-30.56	-65.43	-49.31	6.87	12.62	V
	15045	-34.27	-13	-21.27	-67.01	-37.26	10.19	13.18	V
	17910	-26.49	-13	-13.49	-68.45	-29.14	10.78	13.43	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for GPRS and EGPRS were detected, only reported the worst case mode as above.

LTE Band 2 (1.4MHz Bandwidth)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	8460	-43.56	-13	-30.56	-64.85	-49.26	6.87	12.57	H
	13080	-37.54	-13	-24.54	-67.18	-42.11	9.25	13.82	H
	15015	-35.26	-13	-22.26	-67.26	-38.42	10.58	13.74	H
	8400	-43.82	-13	-30.82	-65.42	-49.61	6.82	12.61	V
	10965	-39.36	-13	-26.36	-67.91	-42.92	7.64	11.2	V
	15045	-34.97	-13	-21.97	-66.66	-37.83	10.62	13.48	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above

LTE Band 4 (5MHz Bandwidth)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	10890	-40.26	-13	-27.26	-68.35	-44.44	7.32	11.5	H
	13485	-36.62	-13	-23.62	-67.72	-41.11	8.81	13.3	H
	15000	-35.84	-13	-22.84	-67.77	-39.36	10.18	13.7	H
	8475	-43.28	-13	-30.28	-65.02	-49.07	6.81	12.6	V
	11160	-39.34	-13	-26.34	-67.94	-43.38	7.68	11.72	V
	14640	-35.29	-13	-22.29	-66.64	-38.96	9.24	12.91	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 5 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2542.5	-53.01	-13	-40.01	-61.24	-59.81	3.61	10.41	H
	3480	-52.84	-13	-39.84	-61.56	-60.74	4.57	12.47	H
	8385	-41.39	-13	-28.39	-62.80	-46.38	6.59	11.58	H
	3015	-52.39	-13	-39.39	-59.49	-59.94	3.97	11.52	V
	4455	-51.34	-13	-38.34	-62.94	-57.53	4.98	11.17	V
	7717.5	-42.37	-13	-29.37	-63.84	-47.2	6.82	11.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 12 (1.4MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2197.5	-54.24	-13	-41.24	-62.00	-60.33	3.78	9.87	H
	3787.5	-52.36	-13	-39.36	-61.72	-60.13	4.57	12.34	H
	8452.5	-40.87	-13	-27.87	-62.12	-46.73	6.72	12.58	H
	2490	-51.39	-13	-38.39	-60.20	-58.06	3.71	10.38	V
	6862.5	-47.57	-13	-34.57	-65.42	-54.00	6.08	12.51	V
	7740	-43.65	-13	-30.65	-65.27	-48.88	6.73	11.96	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 13 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1567.5	-43.57	-40	-3.57	-49.32	-49.53	2.86	8.82	H
	3862.5	-54.23	-13	-41.23	-63.63	-62.19	4.62	12.58	H
	5745	-53.01	-13	-40.01	-65.70	-60.09	5.97	13.05	H
	8392.5	-41.27	-13	-28.27	-62.28	-46.68	6.75	12.16	H
	1567.5	-44.13	-40	-4.13	-50.47	-50.09	2.86	8.82	V
	4590	-51.87	-13	-38.87	-63.11	-59.78	4.98	12.89	V
	7275	-45.39	-13	-32.39	-65.48	-50.96	6.35	11.92	V
	8347.5	-40.75	-13	-27.75	-62.46	-45.84	6.97	12.06	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 25 (1.4MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3765	-47.25	-13	-34.25	-56.65	-55.55	3.97	12.27	H
	5640	-38.64	-13	-25.64	-51.05	-46.42	5.65	13.43	H
	15075	-36.28	-13	-23.28	-67.94	-39.61	10.39	13.72	H
	3765	-48.26	-13	-35.26	-57.7	-56.56	3.97	12.27	V
	5640	-34.87	-13	-21.87	-47.33	-42.65	5.65	13.43	V
	15000	-35.81	-13	-22.81	-67.89	-39.33	10.18	13.7	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 26 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1687.5	-55.18	-13	-42.18	-61.84	-61.24	2.92	8.98	H
	6900	-45.87	-13	-32.87	-63.38	-51.94	6.08	12.15	H
	8452.5	-43.49	-13	-30.49	-64.94	-49.34	6.74	12.59	H
	1687.5	-55.48	-13	-42.48	-62.52	-61.54	2.92	8.98	V
	5062.5	-49.13	-13	-36.13	-60.12	-56.95	5.42	13.24	V
	8362.5	-43.57	-13	-30.57	-65.24	-50.16	6.28	12.87	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band66 (20MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3435	-41.23	-13	-28.23	-50.02	-49.96	4.12	12.85	H
	5160	-40.19	-13	-27.19	-51.50	-47.63	5.58	13.02	H
	6885	-45.67	-13	-32.67	-62.86	-51.55	6.39	12.27	H
	3450	-47.59	-13	-34.59	-56.76	-55.95	4.27	12.63	V
	5190	-46.27	-13	-33.27	-57.52	-53.77	5.64	13.14	V
	8430	-43.68	-13	-30.68	-65.37	-49.41	6.85	12.58	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

LTE Band 85 (5MHz Bandwidth)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	2820	-43.87	-13	-30.87	-51.37	-51.35	3.94	11.42	H
	3525	-30.73	-13	-17.73	-39.89	-39.13	4.23	12.63	H
	6352.5	-34.29	-13	-21.29	-49.70	-40.79	6.07	12.57	H
	2115	-45.83	-13	-32.83	-53.29	-52.61	3.35	10.13	V
	4935	-49.28	-13	-36.28	-60.31	-56.85	5.34	12.91	V
	6975	-46.94	-13	-33.94	-65.09	-52.87	6.19	12.12	V

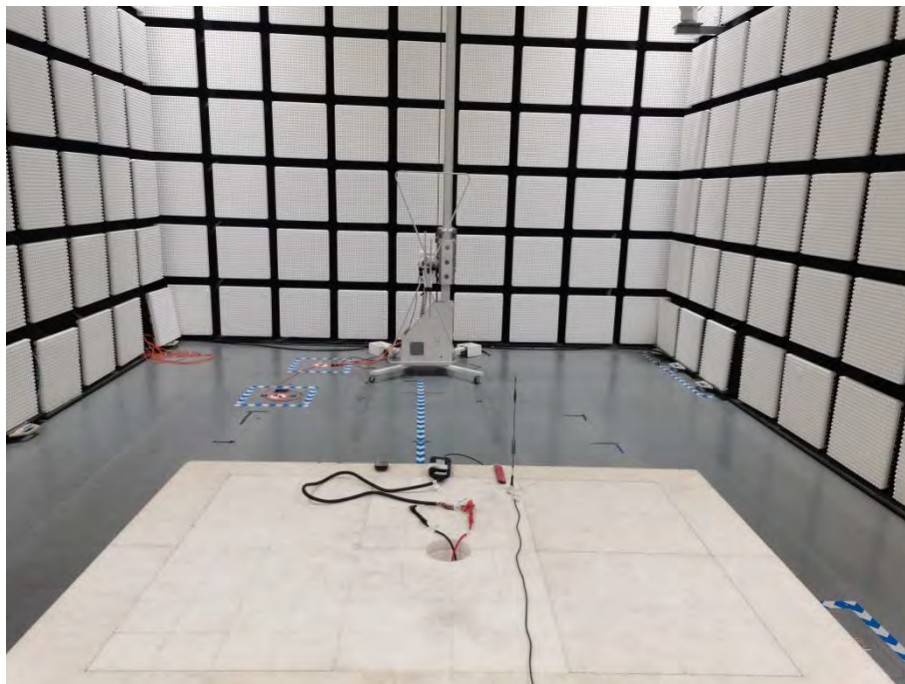
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

All the lowest, middle, highest channels for each bandwidth were detected, only reported the worst case mode as above.

Appendix B. Test Setup Photographs

<Radiated Emission >

LF



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-----End of the report-----