Appendix-FCC-WCDMA-B4

1.1 AppendixA: Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Channel	conducted power(dBm)	Max AntGain (dBi)	EIRP (dBm)	Limit(dBm)	Verdict
Band4	1312	24.36	0.2	24.56	30	PASS
Band4	1413	24.25	0.2	24.45	30	PASS
Band4	1513	24.62	0.2	24.82	30	PASS

Band	Channel	SubTest	conducted power(dBm)	Max AntGain (dBi)	EIRP (dBm)	Limit(dBm)	Verdict
Band4	1312	1	23.93	0.2	24.13	30	PASS
Band4	1312	2	22.49	0.2	22.69	30	PASS
Band4	1312	3	23.31	0.2	23.51	30	PASS
Band4	1312	4	22.80	0.2	23.00	30	PASS
Band4	1413	1	23.63	0.2	23.83	30	PASS
Band4	1413	2	22.72	0.2	22.92	30	PASS
Band4	1413	3	22.86	0.2	23.06	30	PASS
Band4	1413	4	22.88	0.2	23.08	30	PASS
Band4	1513	1	23.59	0.2	23.79	30	PASS
Band4	1513	2	23.02	0.2	23.22	30	PASS
Band4	1513	3	22.83	0.2	23.03	30	PASS
Band4	1513	4	22.18	0.2	22.38	30	PASS

Band	Channel	SubTest	conducted power(dBm)	Max AntGain (dBi)	EIRP (dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.90	0.2	22.10	30	PASS
Band4	1312	2	21.58	0.2	21.78	30	PASS
Band4	1312	3	22.45	0.2	22.65	30	PASS
Band4	1312	4	20.57	0.2	20.77	30	PASS
Band4	1312	5	22.54	0.2	22.74	30	PASS
Band4	1413	1	21.26	0.2	21.46	30	PASS
Band4	1413	2	21.60	0.2	21.80	30	PASS
Band4	1413	3	22.82	0.2	23.02	30	PASS
Band4	1413	4	21.57	0.2	21.77	30	PASS
Band4	1413	5	22.71	0.2	22.91	30	PASS
Band4	1513	1	20.76	0.2	20.96	30	PASS
Band4	1513	2	21.62	0.2	21.82	30	PASS
Band4	1513	3	20.68	0.2	20.88	30	PASS
Band4	1513	4	20.33	0.2	20.53	30	PASS
Band4	1513	5	21.59	0.2	21.79	30	PASS

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1.2 AppendixB:Peak-to-Average Ratio

1.2.1 Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.27	13	PASS
Band4	1413	3.3	13	PASS
Band4	1513	3.33	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	-999	3.3	13	PASS
Band4	1413	-999	3.27	13	PASS
Band4	1513	-999	3.4	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	-999	4.42	13	PASS
Band4	1413	-999	4.39	13	PASS
Band4	1513	-999	4.39	13	PASS

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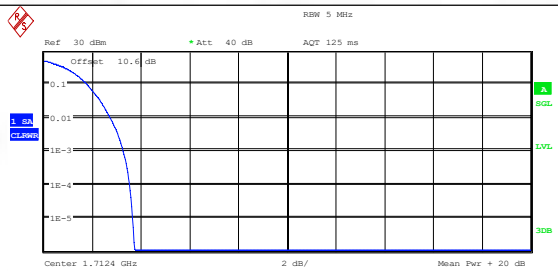
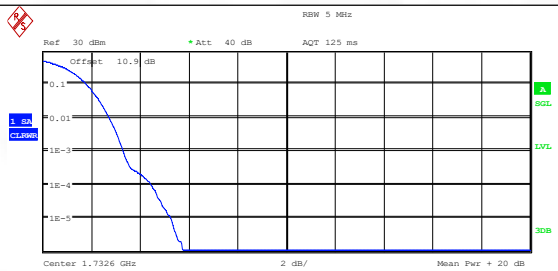
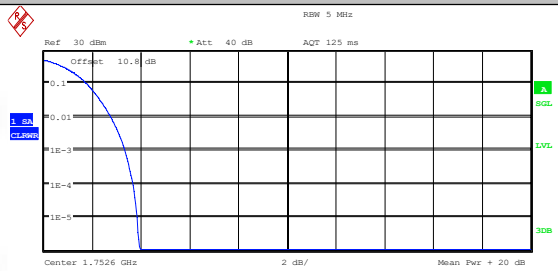
1.2.2 Test Graphs



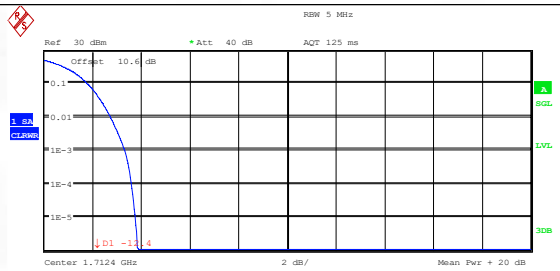
Band4-1312-PASS



Band4-1413-PASS



Band4-1513-PASS

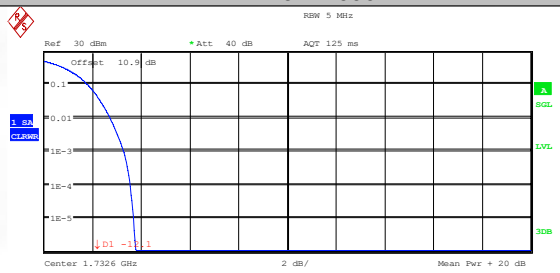


Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	21.16 dBm
Peak	25.07 dBm
Crest	3.91 dB
10 %	1.76 dB
1 %	2.72 dB
.1 %	3.30 dB
.01 %	3.59 dB

Date: 13.OCT.2025 01:37:32

Band4-1312--999-PASS

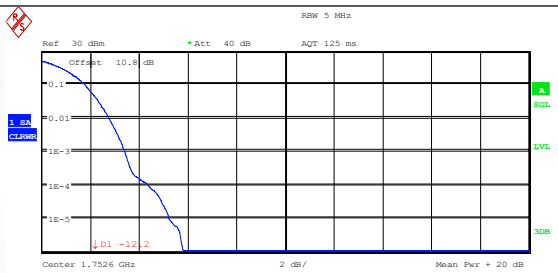


Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	21.36 dBm
Peak	25.14 dBm
Crest	3.78 dB
10 %	1.79 dB
1 %	2.72 dB
.1 %	3.27 dB
.01 %	3.56 dB

Date: 13.OCT.2025 01:37:51

Band4-1413--999-PASS

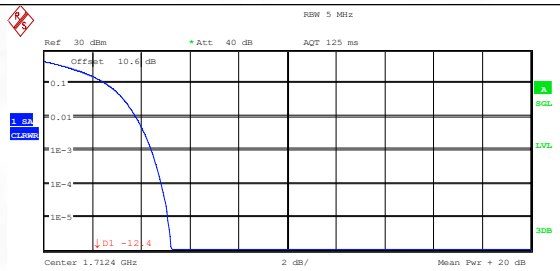


Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	20.91 dBm
Peak	26.98 dBm
Crest	6.07 dB
10 %	1.76 dB
1 %	2.76 dB
.1 %	3.40 dB
.01 %	4.36 dB

Date: 13.OCT.2025 01:38:09

Band4-1513--999-PASS

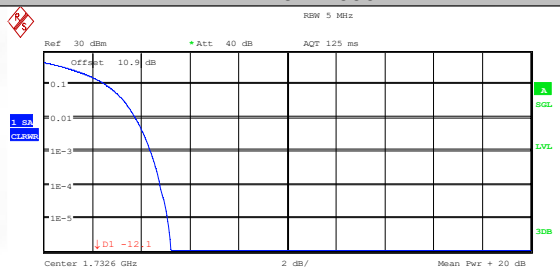


Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	19.64 dBm
Peak	25.21 dBm
Crest	5.57 dB
10 %	2.53 dB
1 %	3.78 dB
.1 %	4.42 dB
.01 %	4.81 dB

Date: 13.OCT.2025 02:01:21

Band4-1312--999-PASS

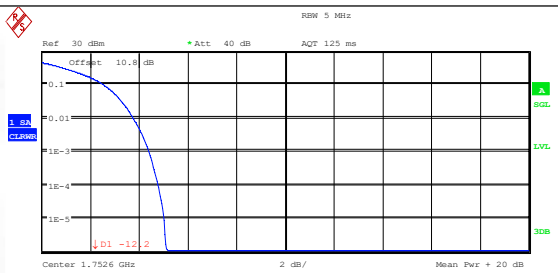


Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	19.86 dBm
Peak	25.14 dBm
Crest	5.28 dB
10 %	2.53 dB
1 %	3.75 dB
.1 %	4.39 dB
.01 %	4.78 dB

Date: 13.OCT.2025 02:02:20

Band4-1413--999-PASS



Complementary Cumulative Distribution Function (1000000 samples)

	Trace 1
Mean	19.37 dBm
Peak	24.58 dBm
Crest	5.20 dB
10 %	2.53 dB
1 %	3.75 dB
.1 %	4.39 dB
.01 %	4.78 dB

Date: 13.OCT.2025 02:03:16

Band4-1513--999-PASS

1.3 AppendixC:26dB Bandwidth andOccupied Bandwidth

1.3.1 Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	4.16	4.74	---	PASS
Band4	1413	4.17	4.74	---	PASS
Band4	1513	4.17	4.73	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	-999	4.16	4.72	---	PASS
Band4	1413	-999	4.17	4.74	---	PASS
Band4	1513	-999	4.17	4.72	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	-999	4.17	4.74	---	PASS
Band4	1413	-999	4.19	4.74	---	PASS
Band4	1513	-999	4.18	4.73	---	PASS

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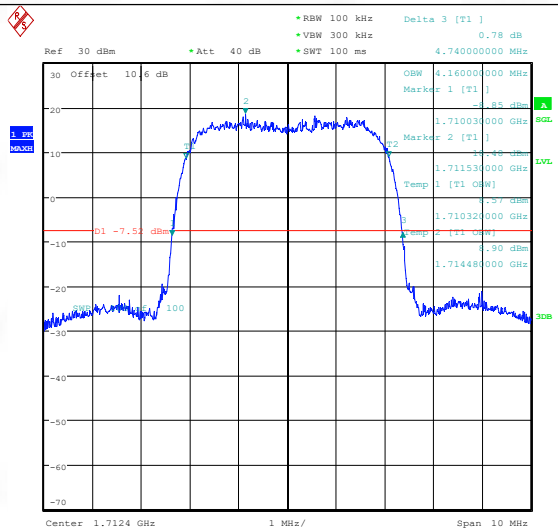
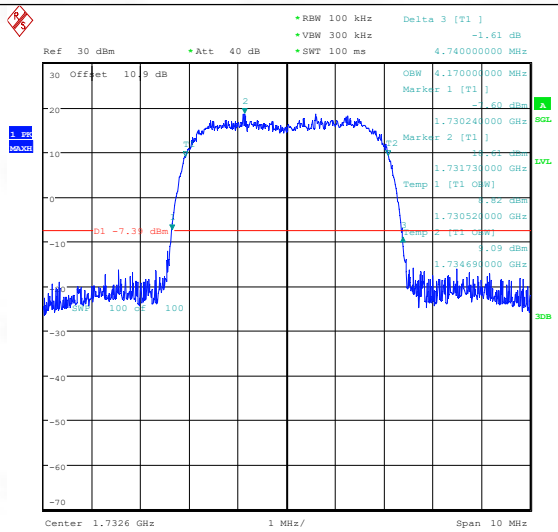
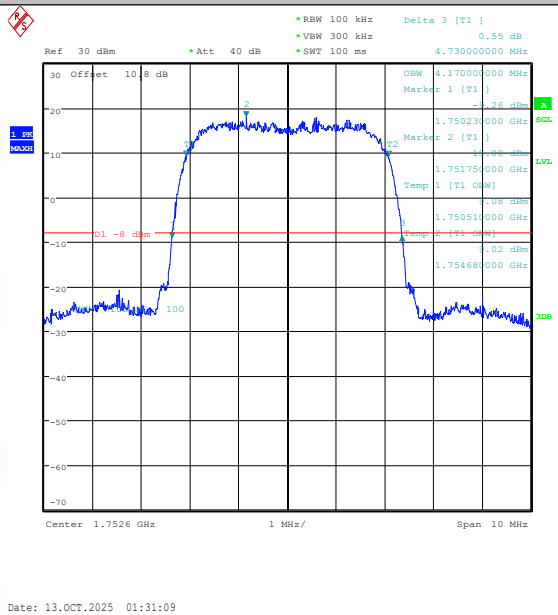
1.3.2 Test Graphs



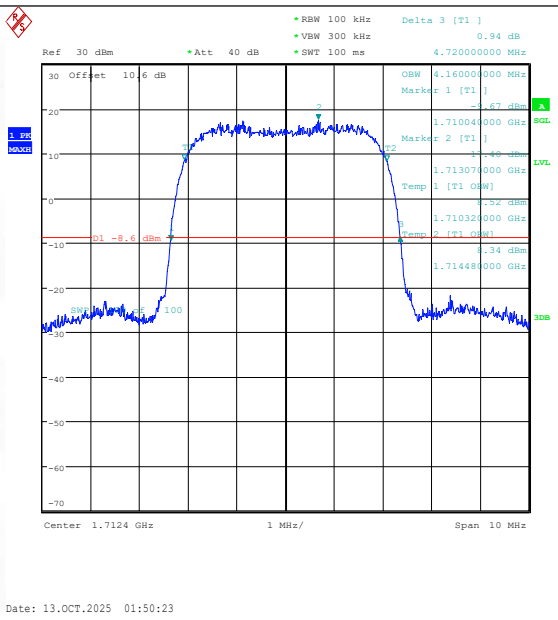
Band4-1312-PASS



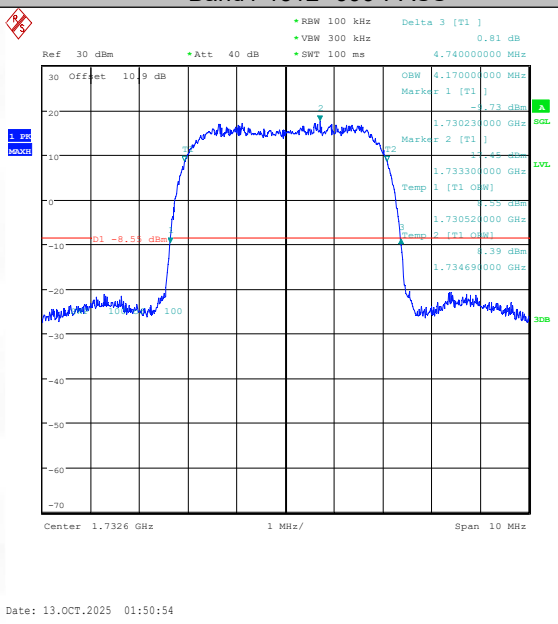
Band4-1413-PASS



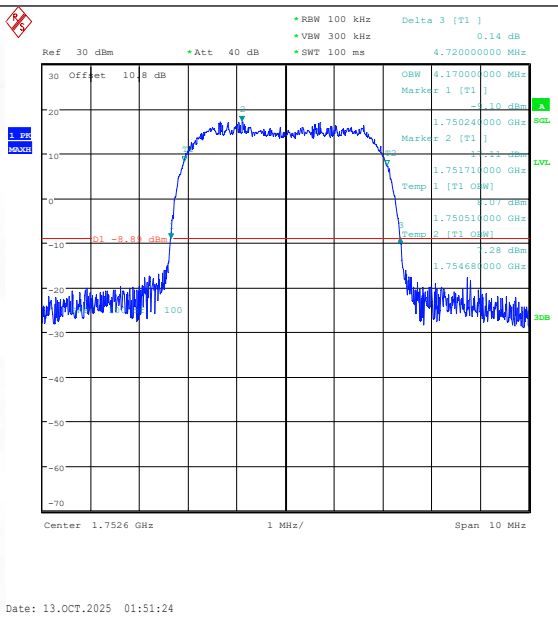
Band4-1513-PASS



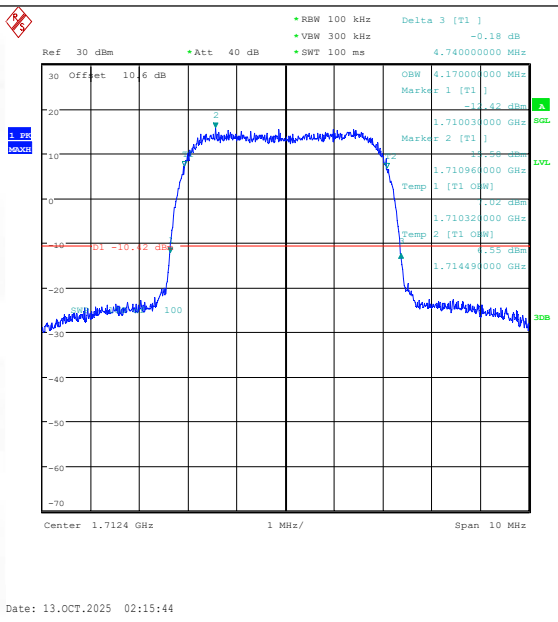
Band4-1312--999-PASS



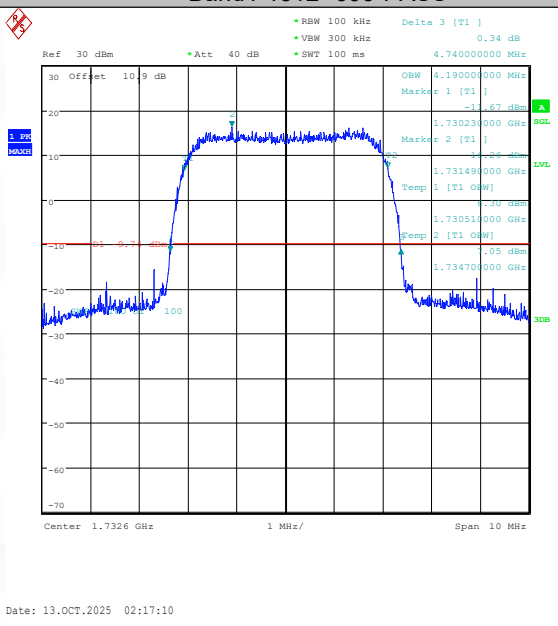
Band4-1413--999-PASS



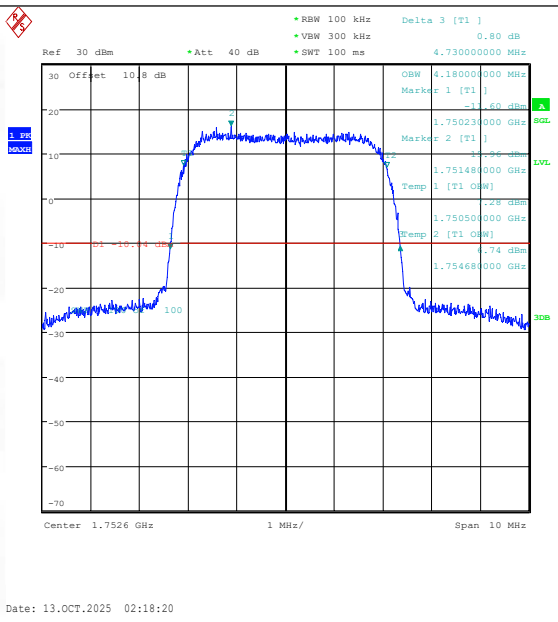
Band4-1513--999-PASS



Band4-1312--999-PASS



Band4-1413--999-PASS



Band4-1513--999-PASS

1.4 AppendixD:Band Edge

1.4.1 Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-29.67	-13	PASS
Band4	1513	1755.00	-30.11	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	-999	1710.00	-29.38	-13	PASS
Band4	1513	-999	1755.00	-30.41	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	-999	1710.00	-30.85	-13	PASS
Band4	1513	-999	1755.00	-31.54	-13	PASS

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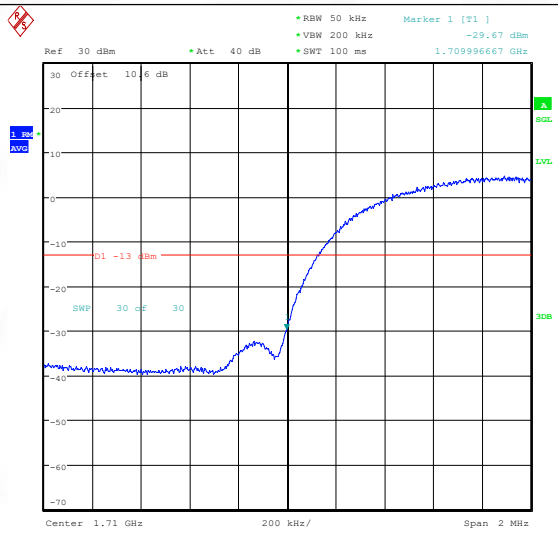
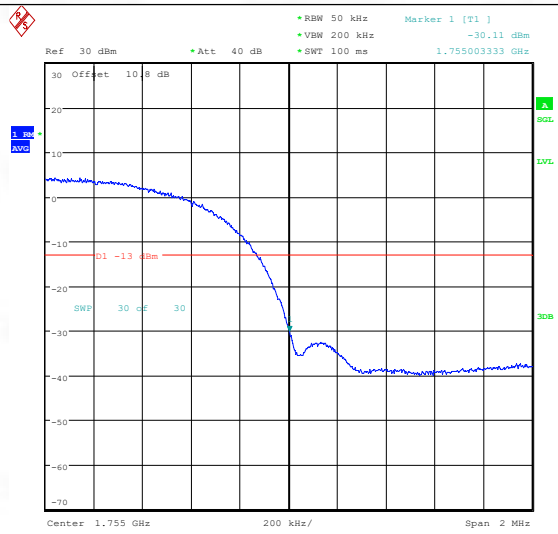
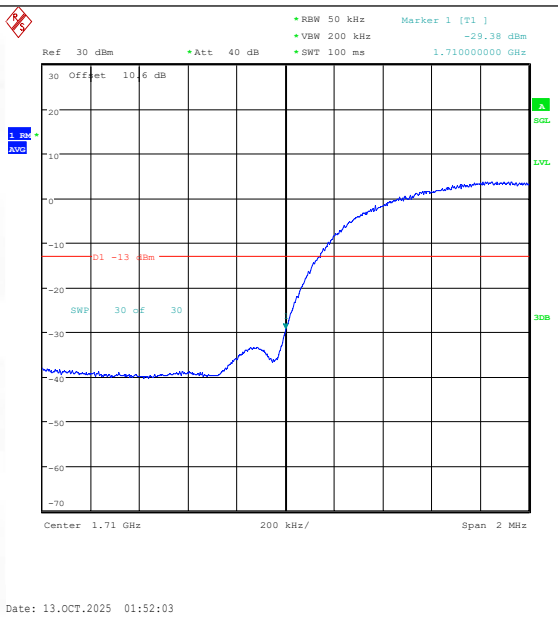
1.4.2 Test Graphs



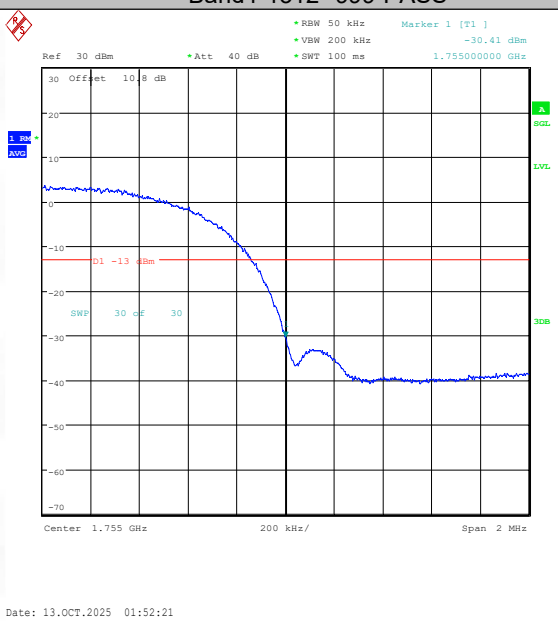
Band4-1312-PASS



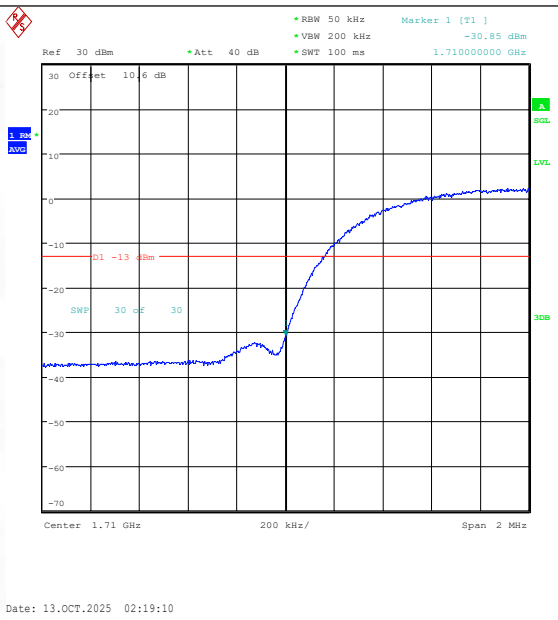
Band4-1513-PASS



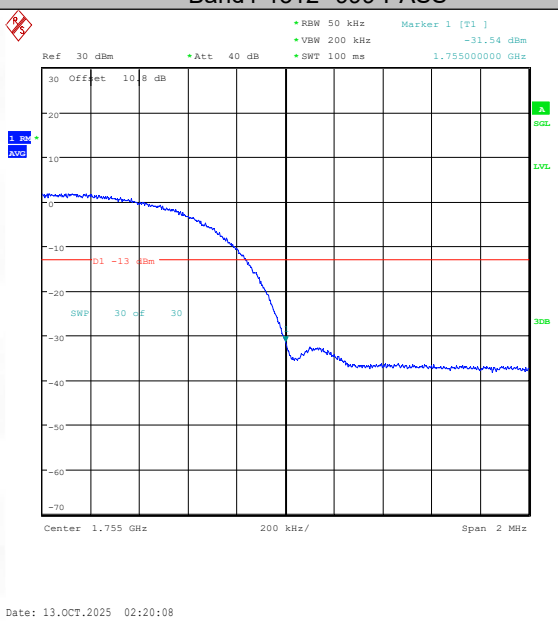
Band4-1312--999-PASS



Band4-1513--999-PASS



Band4-1312--999-PASS



Band4-1513--999-PASS

1.5 AppendixE:Conducted SpuriousEmission

1.5.1 Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.06	-60.86	-43	PASS
Band4	1312	0.15~30MHz	0.18	-58.5	-33	PASS
Band4	1312	30~1000MHz	230.31	-50.49	-13	PASS
Band4	1312	1000~20000MHz	19183	-44.36	-13	PASS
Band4	1413	0.009~0.15MHz	0.06	-61.3	-43	PASS
Band4	1413	0.15~30MHz	0.15	-59.06	-33	PASS
Band4	1413	30~1000MHz	238.55	-50.55	-13	PASS
Band4	1413	1000~20000MHz	19173.5	-44.36	-13	PASS
Band4	1513	0.009~0.15MHz	0.06	-62.29	-43	PASS
Band4	1513	0.15~30MHz	0.15	-58.62	-33	PASS
Band4	1513	30~1000MHz	200.72	-50.52	-13	PASS
Band4	1513	1000~20000MHz	19145	-44.27	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	-999	0.009~0.15MHz	0.06	-61.48	-43	PASS
Band4	1312	-999	0.15~30MHz	0.18	-58.79	-33	PASS
Band4	1312	-999	30~1000MHz	199.27	-50.51	-13	PASS
Band4	1312	-999	1000~20000MHz	19145	-44.37	-13	PASS
Band4	1413	-999	0.009~0.15MHz	0.06	-61.59	-43	PASS
Band4	1413	-999	0.15~30MHz	0.15	-58.53	-33	PASS
Band4	1413	-999	30~1000MHz	198.78	-50.52	-13	PASS
Band4	1413	-999	1000~20000MHz	19145	-44.35	-13	PASS
Band4	1513	-999	0.009~0.15MHz	0.06	-61.43	-43	PASS
Band4	1513	-999	0.15~30MHz	0.18	-58.85	-33	PASS
Band4	1513	-999	30~1000MHz	236.13	-50.55	-13	PASS
Band4	1513	-999	1000~20000MHz	19173.5	-44.32	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	-999	0.009~0.15MHz	0.06	-62.22	-43	PASS
Band4	1312	-999	0.15~30MHz	0.15	-59.17	-33	PASS
Band4	1312	-999	30~1000MHz	235.64	-50.57	-13	PASS
Band4	1312	-999	1000~20000MHz	19164	-44.37	-13	PASS
Band4	1413	-999	0.009~0.15MHz	0.06	-61.87	-43	PASS
Band4	1413	-999	0.15~30MHz	0.15	-59.08	-33	PASS
Band4	1413	-999	30~1000MHz	200.24	-50.55	-13	PASS
Band4	1413	-999	1000~20000MHz	19164	-44.37	-13	PASS
Band4	1513	-999	0.009~0.15MHz	0.01	-62.74	-43	PASS
Band4	1513	-999	0.15~30MHz	0.18	-58.69	-33	PASS
Band4	1513	-999	30~1000MHz	198.78	-50.56	-13	PASS
Band4	1513	-999	1000~20000MHz	19183	-44.39	-13	PASS

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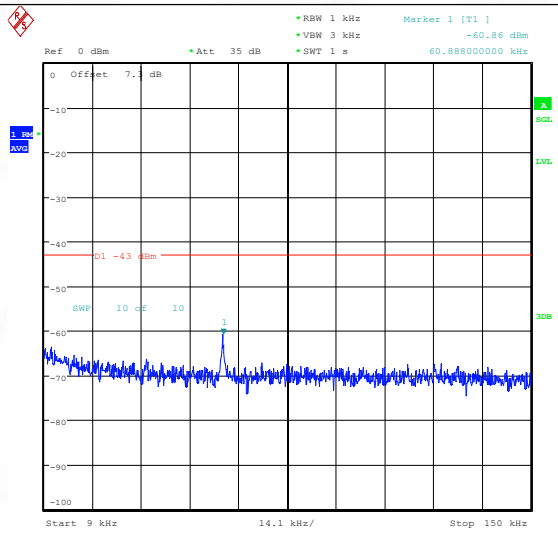
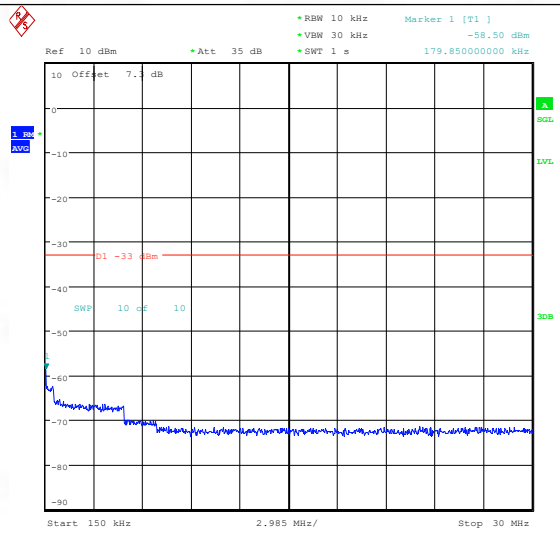
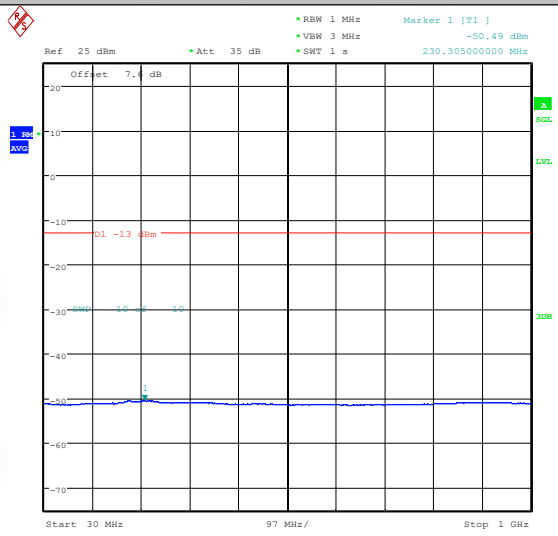
1.5.2 Test Graphs



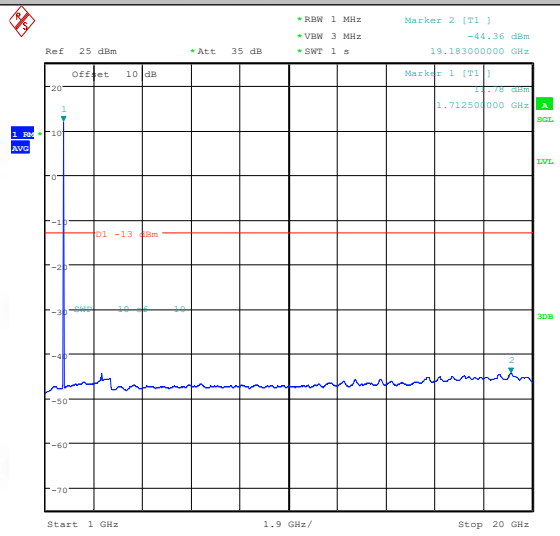
Band4-1312-0.009~0.15MHz-PASS



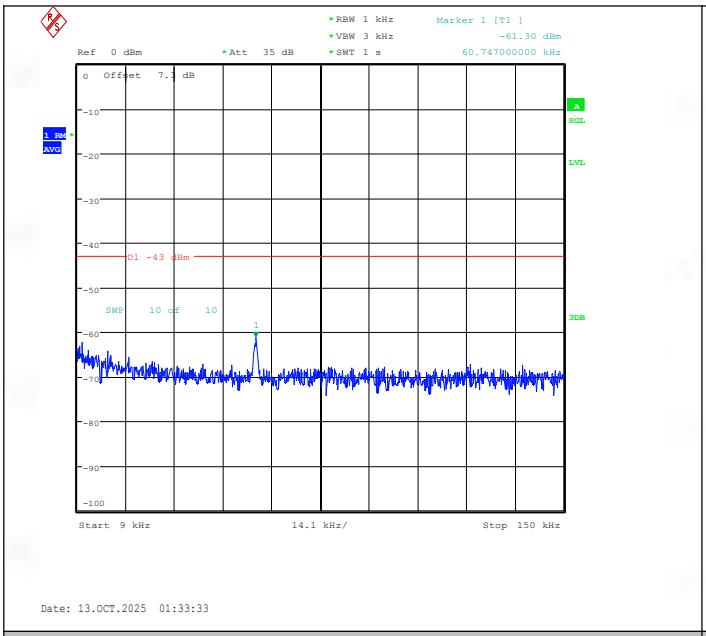
Band4-1312-0.15~30MHz-PASS



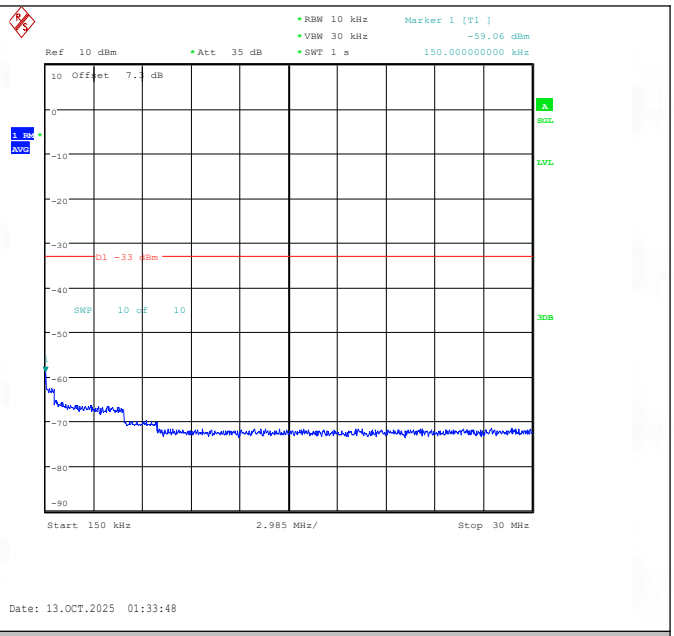
Band4-1312-30~1000MHz-PASS



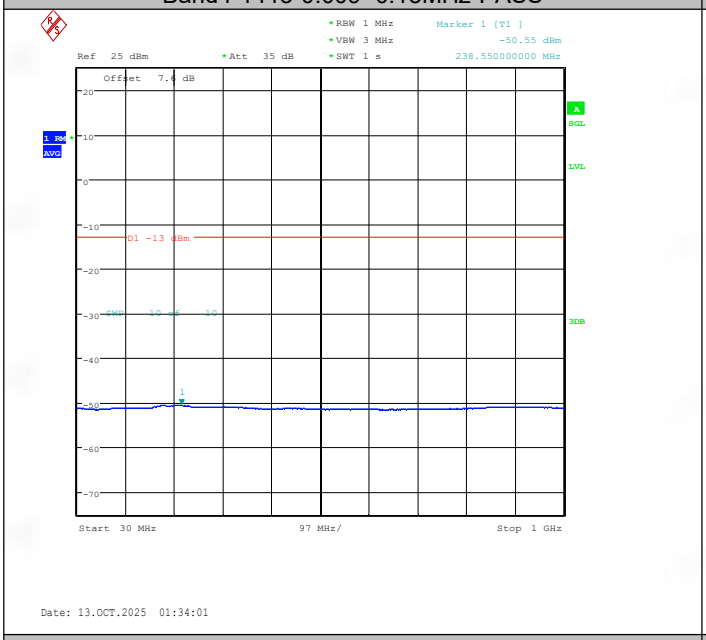
Band4-1312-1000~20000MHz-PASS



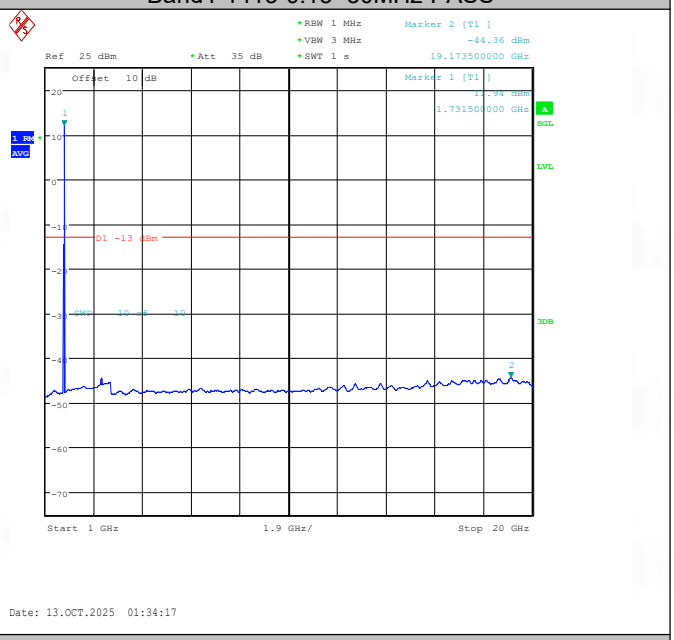
Band4-1413-0.009~0.15MHz-PASS



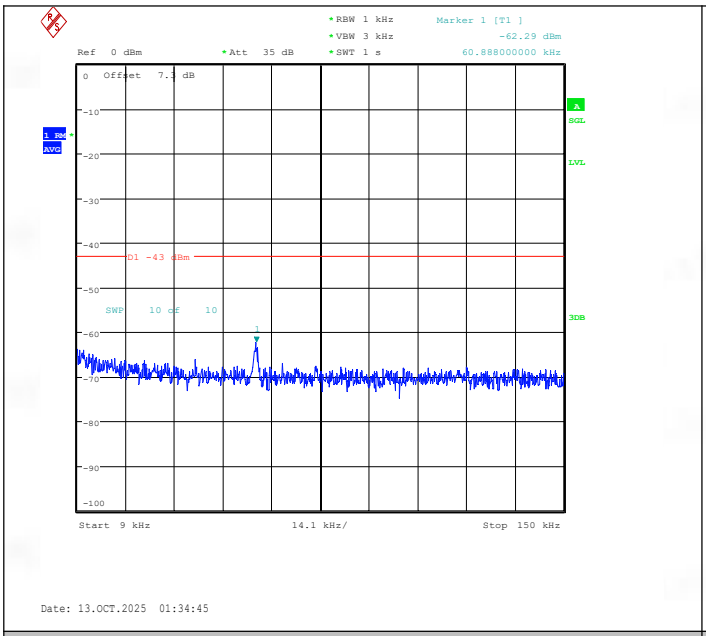
Band4-1413-0.15~30MHz-PASS



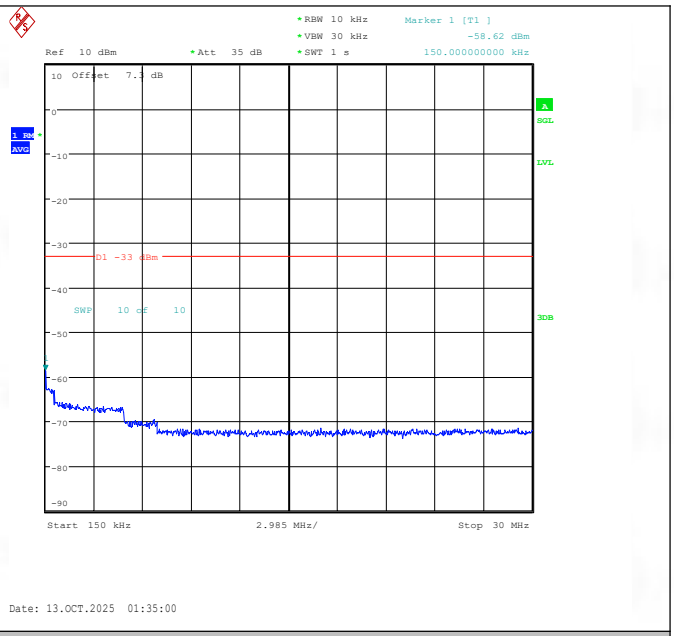
Band4-1413-30~1000MHz-PASS



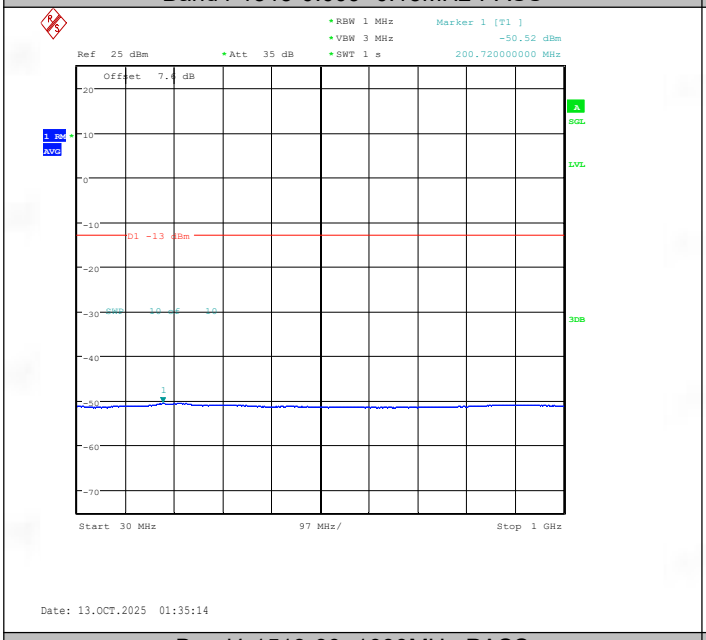
Band4-1413-1000~20000MHz-PASS



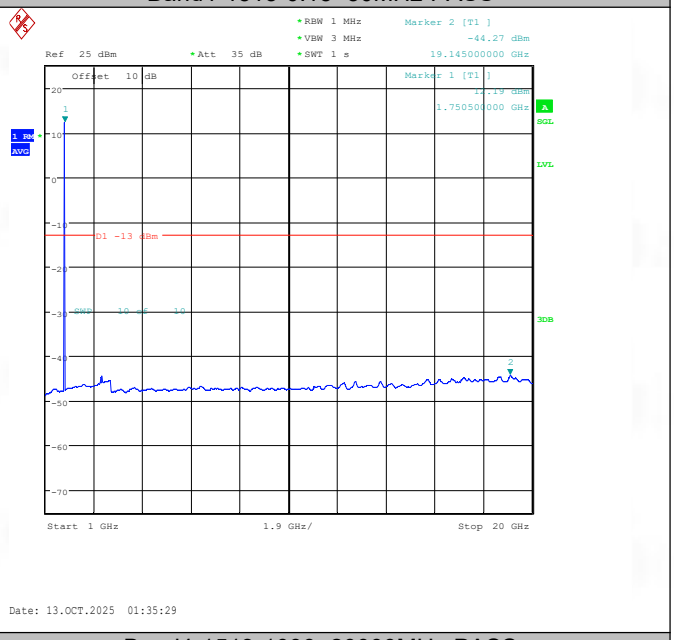
Band4-1513-0.009~0.15MHz-PASS



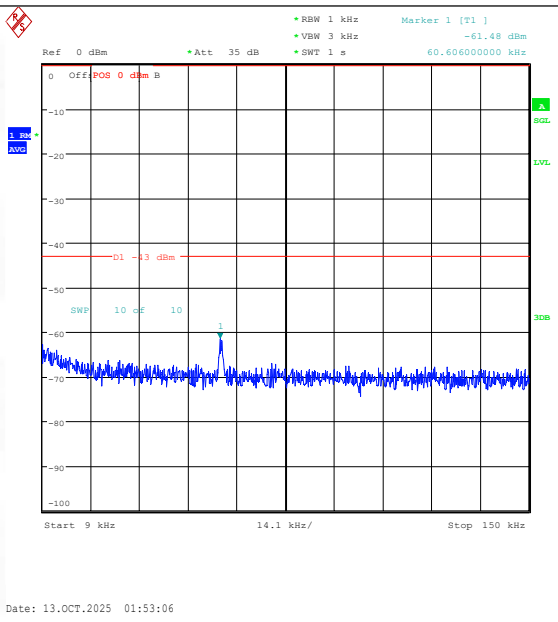
Band4-1513-0.15~30MHz-PASS



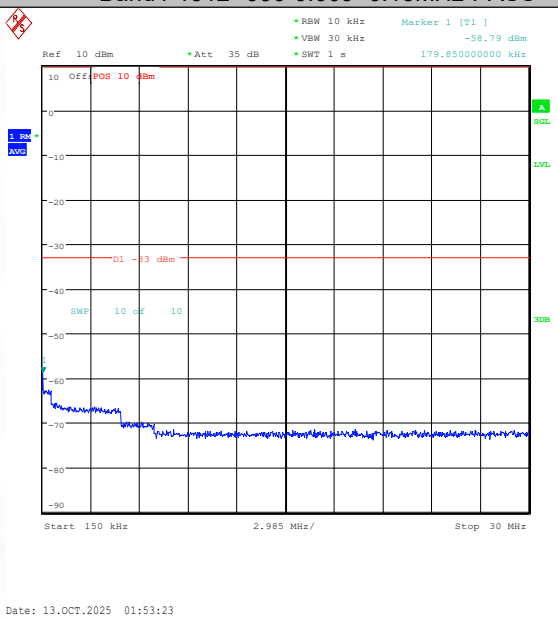
Band4-1513-30~1000MHz-PASS



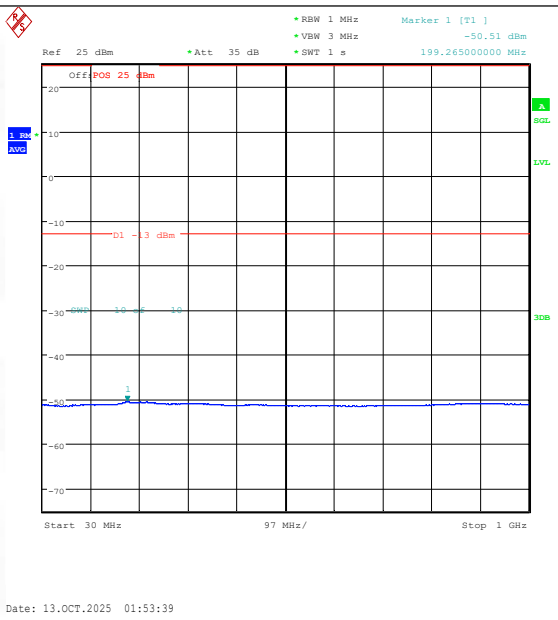
Band4-1513-1000~20000MHz-PASS



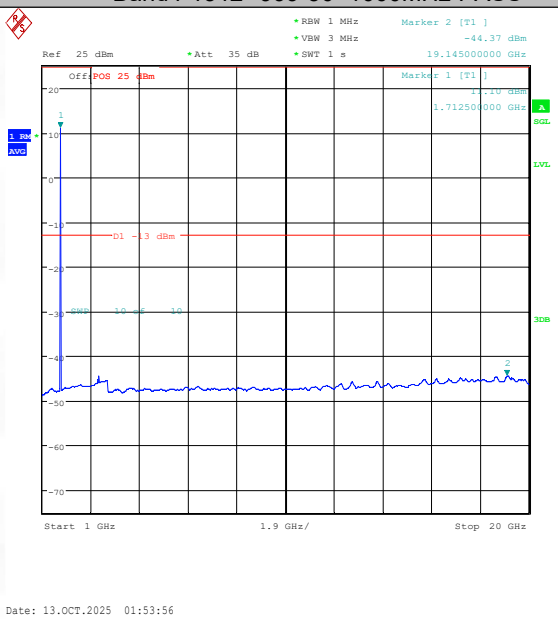
Band4-1312--999-0.009~0.15MHz-PASS



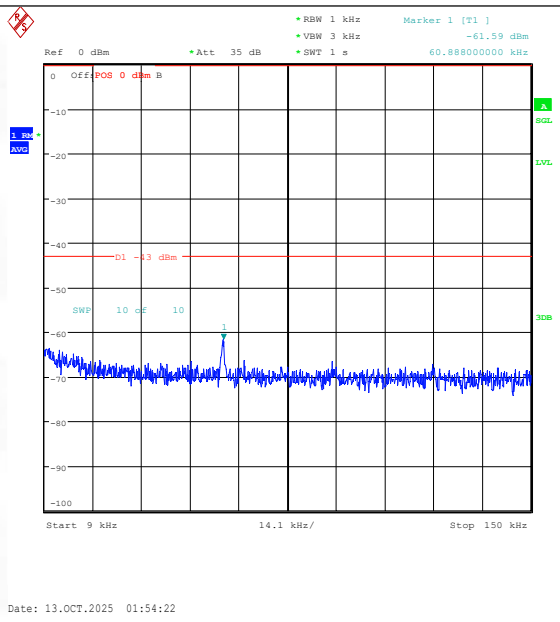
Band4-1312--999-0.15~30MHz-PASS



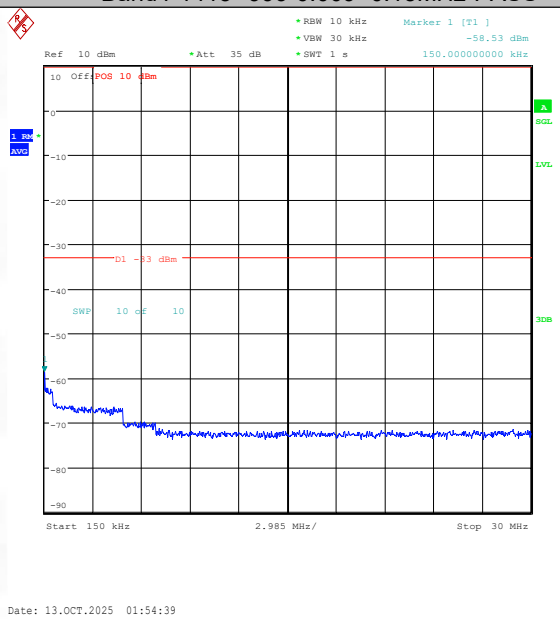
Band4-1312--999-30~1000MHz-PASS



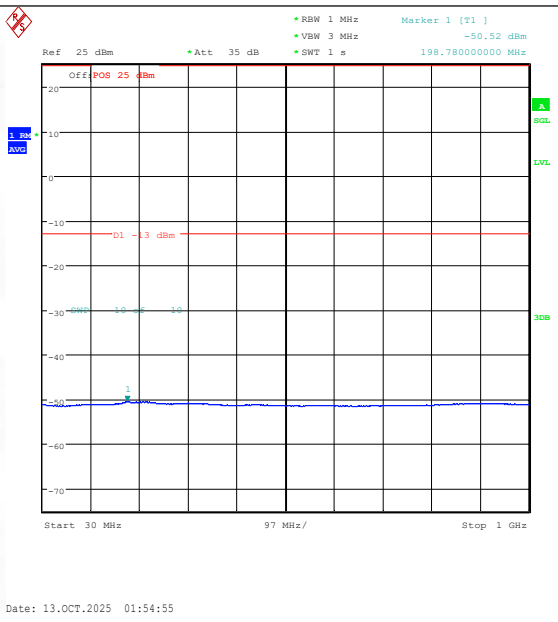
Band4-1312--999-1000~20000MHz-PASS



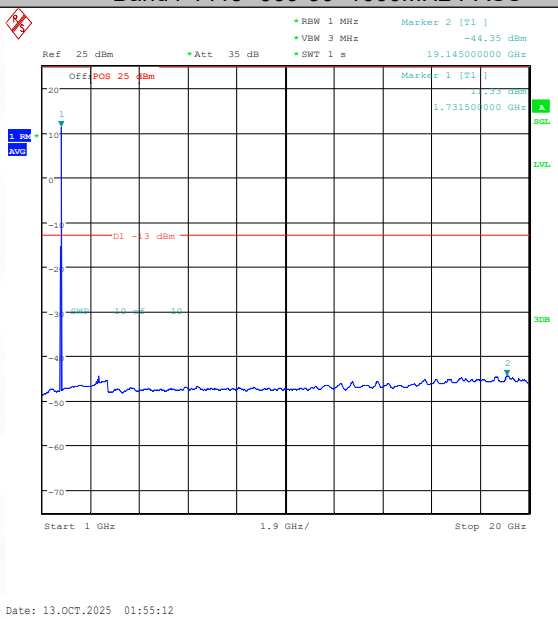
Band4-1413--999-0.009~0.15MHz-PASS



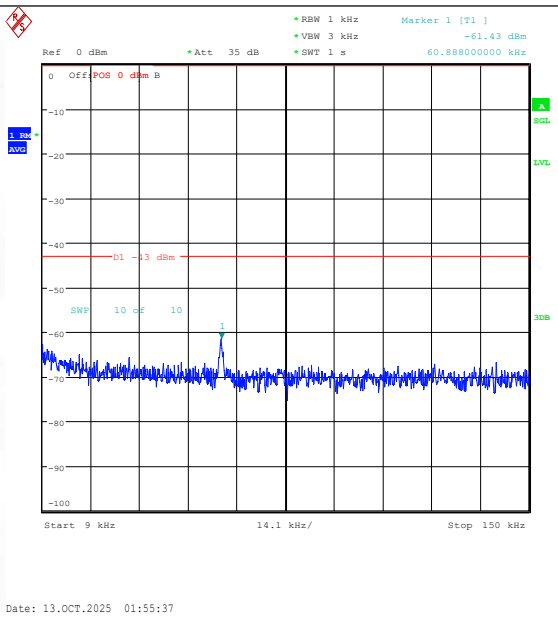
Band4-1413--999-0.15~30MHz-PASS



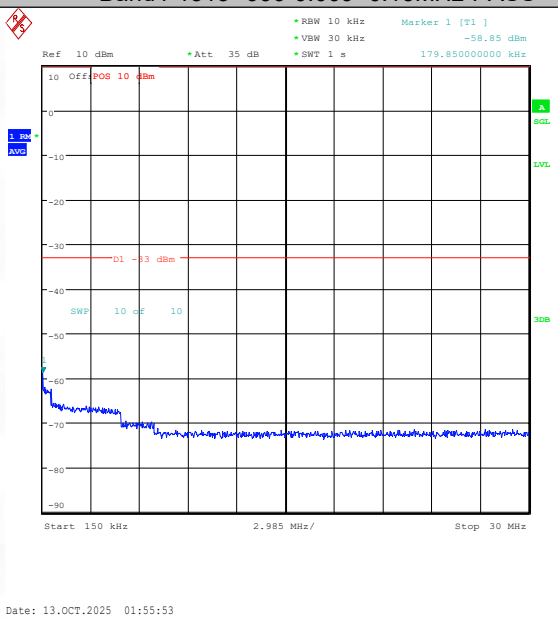
Band4-1413--999-30~1000MHz-PASS



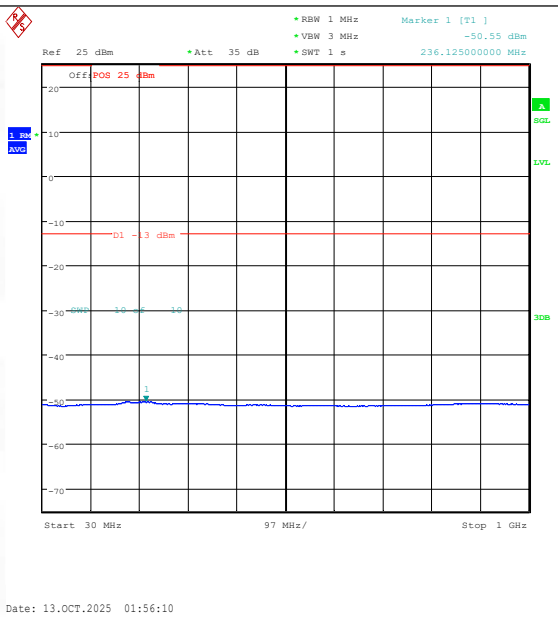
Band4-1413--999-1000~20000MHz-PASS



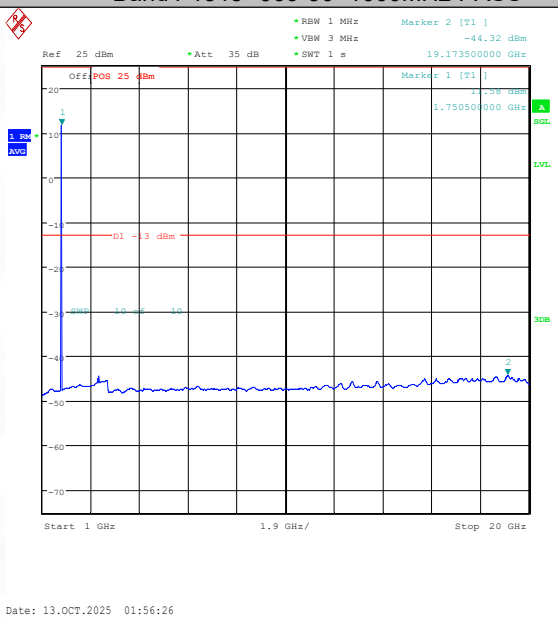
Band4-1513--999-0.009~0.15MHz-PASS



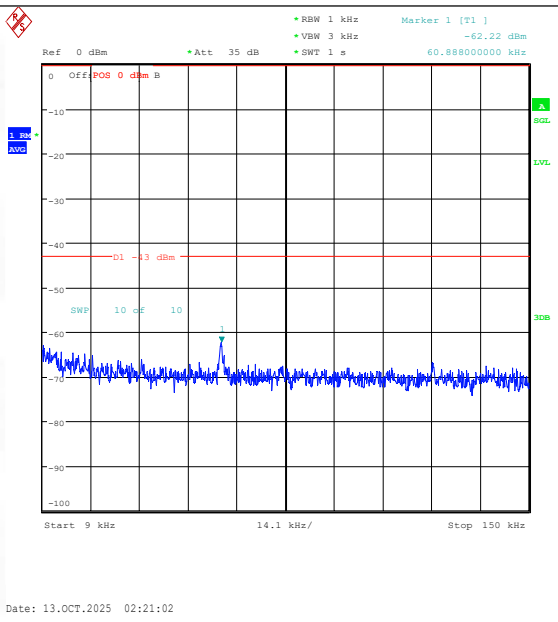
Band4-1513--999-0.15~30MHz-PASS



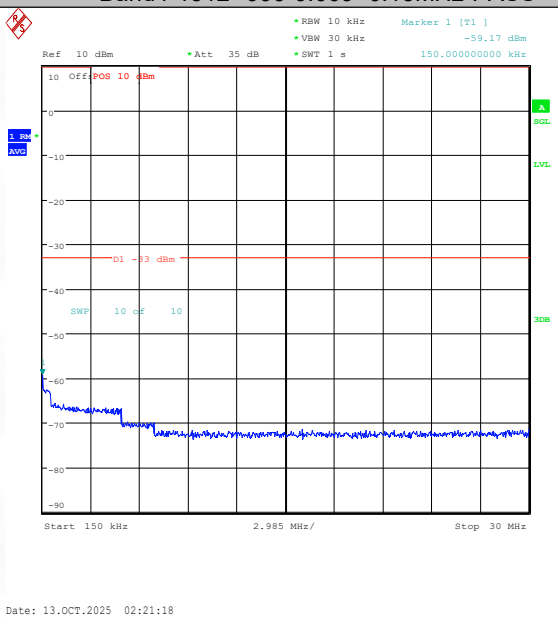
Band4-1513--999-30~1000MHz-PASS



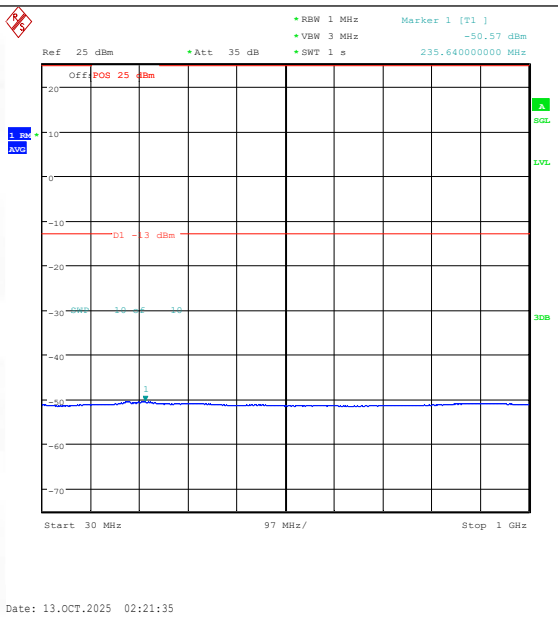
Band4-1513--999-1000~20000MHz-PASS



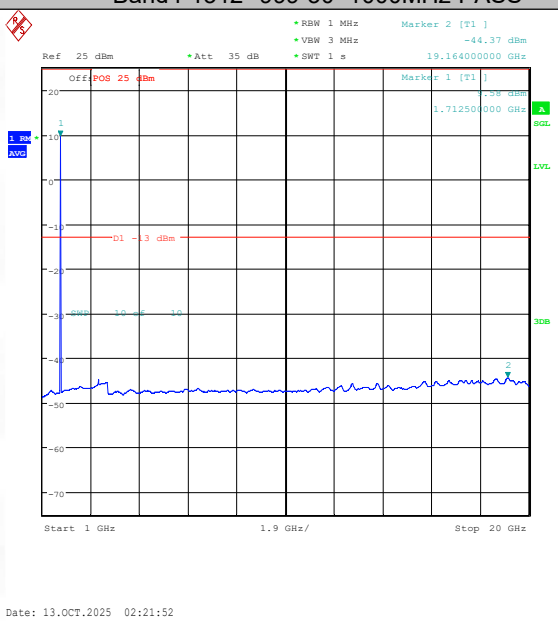
Band4-1312--999-0.009~0.15MHz-PASS



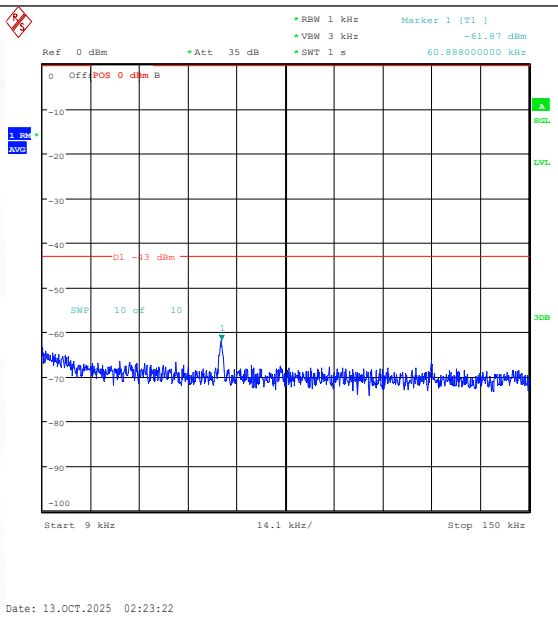
Band4-1312--999-0.15~30MHz-PASS



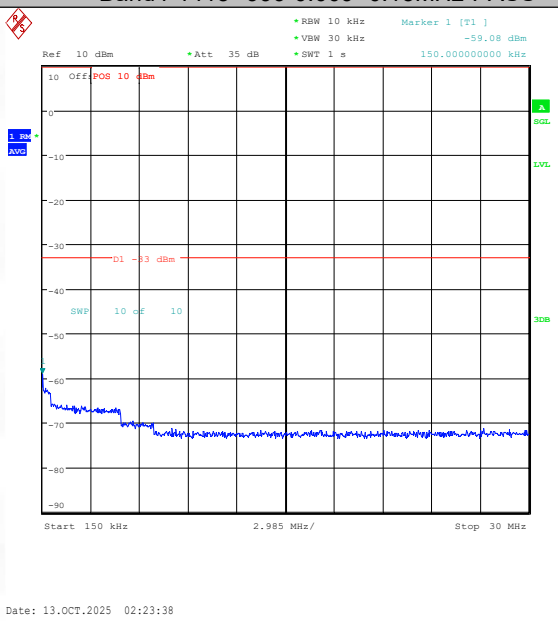
Band4-1312--999-30~1000MHz-PASS



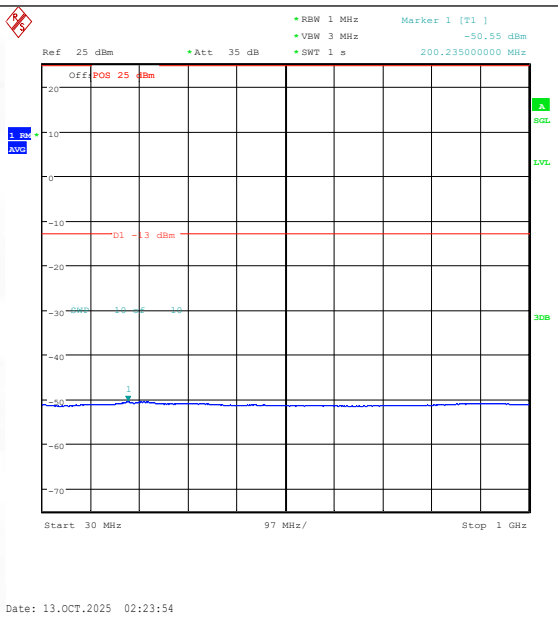
Band4-1312--999-1000~20000MHz-PASS



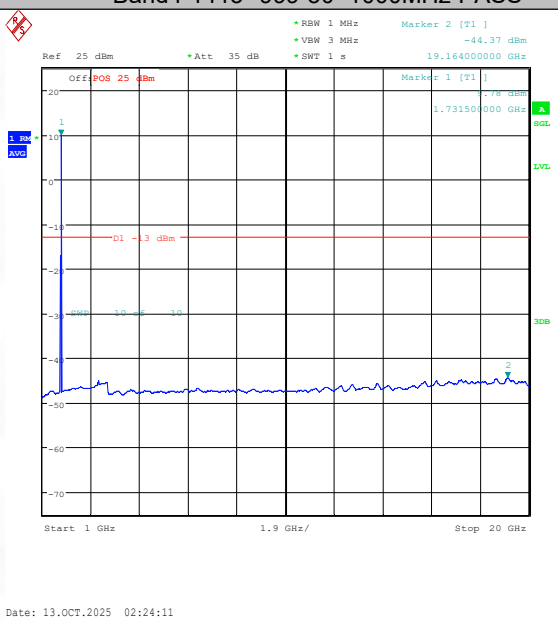
Band4-1413--999-0.009~0.15MHz-PASS



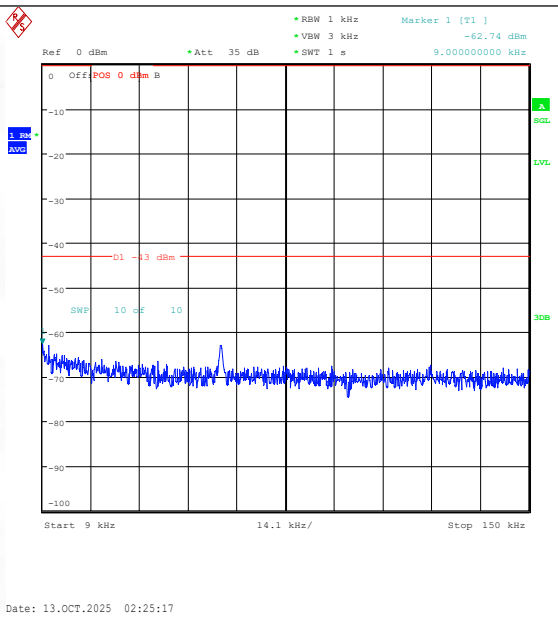
Band4-1413--999-0.15~30MHz-PASS



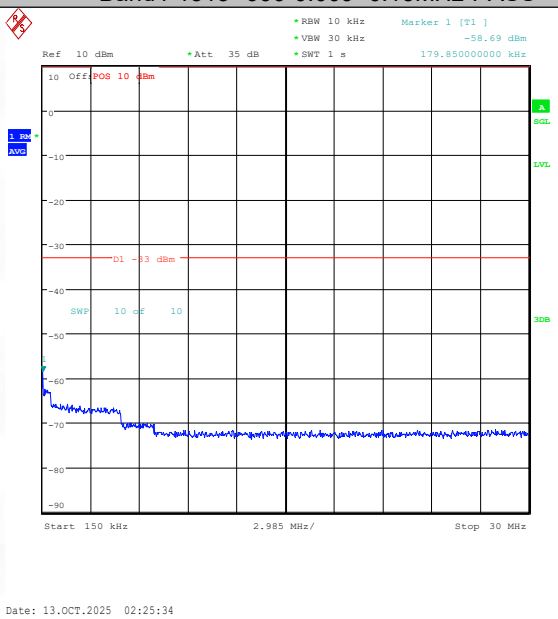
Band4-1413--999-30~1000MHz-PASS



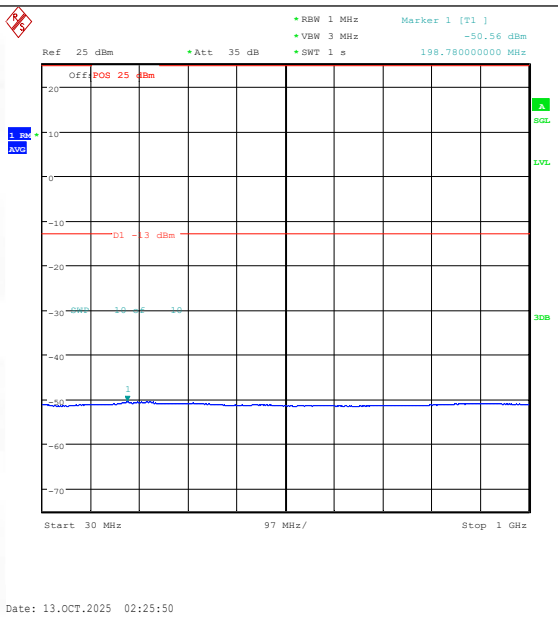
Band4-1413--999-1000~20000MHz-PASS



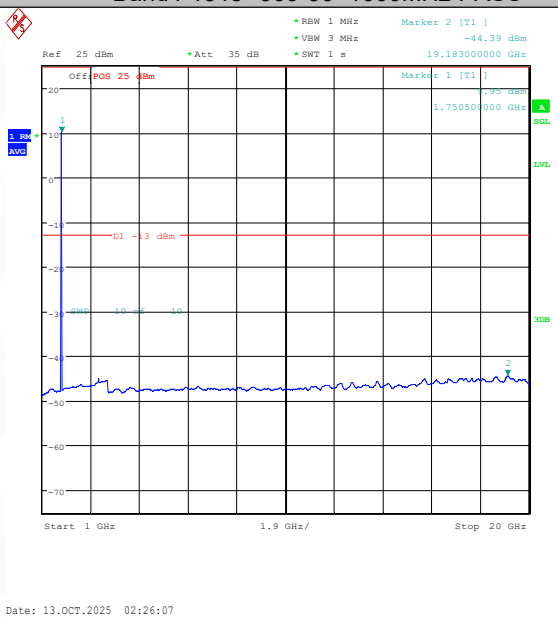
Band4-1513--999-0.009~0.15MHz-PASS



Band4-1513--999-0.15~30MHz-PASS



Band4-1513--999-30~1000MHz-PASS



Band4-1513--999-1000~20000MHz-PASS

1.6 AppendixF:Frequency Stability

1.6.1 Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VN	NT	-999	-0.583391	±2.5	PASS
Band4	1312	VL	NT	-999	-0.583391	±2.5	PASS
Band4	1312	VH	NT	-999	-0.583391	±2.5	PASS
Band4	1413	VN	NT	-999	-0.576525	±2.5	PASS
Band4	1413	VL	NT	-999	-0.576531	±2.5	PASS
Band4	1413	VH	NT	-999	-0.576551	±2.5	PASS
Band4	1513	VN	NT	-999	-0.570020	±2.5	PASS
Band4	1513	VL	NT	-999	-0.570011	±2.5	PASS
Band4	1513	VH	NT	-999	-0.570013	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-999	-0.583325	±2.5	PASS
Band4	1312	NV	-20	-999	0.583325	±2.5	PASS
Band4	1312	NV	-10	-999	0.583325	±2.5	PASS
Band4	1312	NV	0	-999	0.583325	±2.5	PASS
Band4	1312	NV	10	-999	0.583325	±2.5	PASS
Band4	1312	NV	20	-999	0.583325	±2.5	PASS
Band4	1312	NV	30	-999	0.583325	±2.5	PASS
Band4	1312	NV	40	-999	0.583325	±2.5	PASS
Band4	1312	NV	50	-999	0.583325	±2.5	PASS
Band4	1413	NV	-30	-999	-0.576525	±2.5	PASS
Band4	1413	NV	-20	-999	-0.576531	±2.5	PASS
Band4	1413	NV	-10	-999	-0.576525	±2.5	PASS
Band4	1413	NV	0	-999	-0.576514	±2.5	PASS
Band4	1413	NV	10	-999	-0.576521	±2.5	PASS
Band4	1413	NV	20	-999	-0.576536	±2.5	PASS
Band4	1413	NV	30	-999	-0.576535	±2.5	PASS
Band4	1413	NV	40	-999	-0.576525	±2.5	PASS
Band4	1413	NV	50	-999	-0.576531	±2.5	PASS
Band4	1513	NV	-30	-999	-0.570001	±2.5	PASS
Band4	1513	NV	-20	-999	-0.570001	±2.5	PASS
Band4	1513	NV	-10	-999	-0.570001	±2.5	PASS
Band4	1513	NV	0	-999	-0.570001	±2.5	PASS
Band4	1513	NV	10	-999	-0.570001	±2.5	PASS
Band4	1513	NV	20	-999	-0.570001	±2.5	PASS
Band4	1513	NV	30	-999	-0.570001	±2.5	PASS
Band4	1513	NV	40	-999	-0.570001	±2.5	PASS
Band4	1513	NV	50	-999	-0.570001	±2.5	PASS

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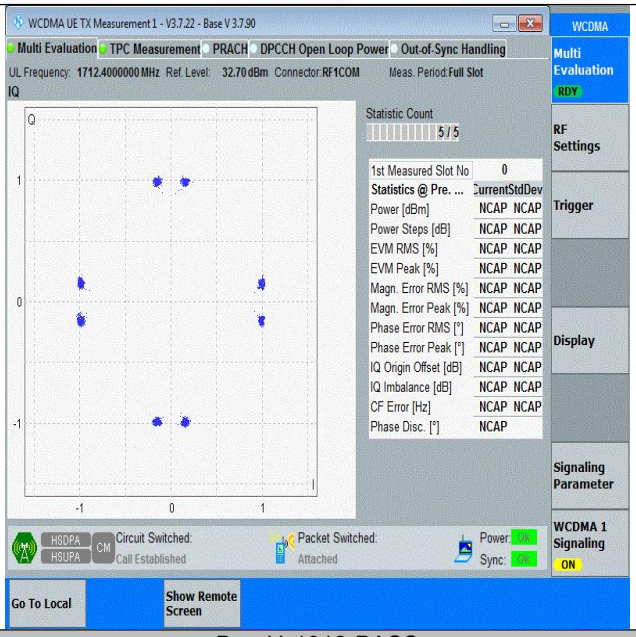
1.7 Appendix G: Modulation Characteristics

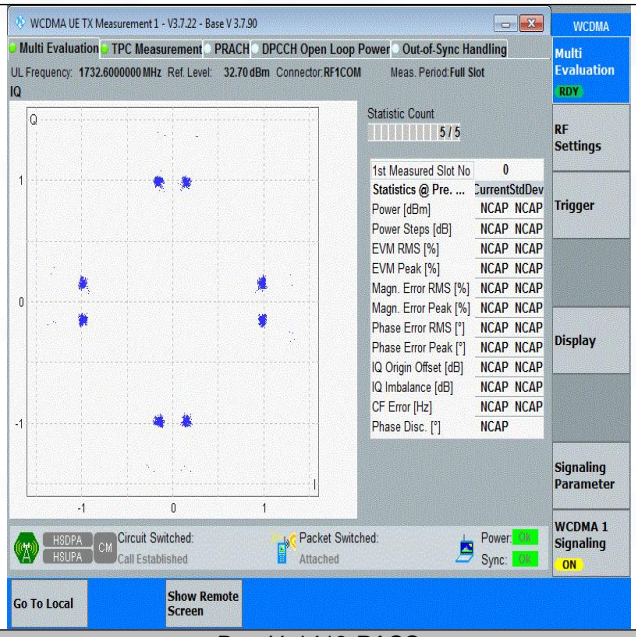
1.7.1 Test Result

Band	Channel	Result	Verdict
Band4	1312	PASS	PASS
Band4	1413	PASS	PASS
Band4	1513	PASS	PASS

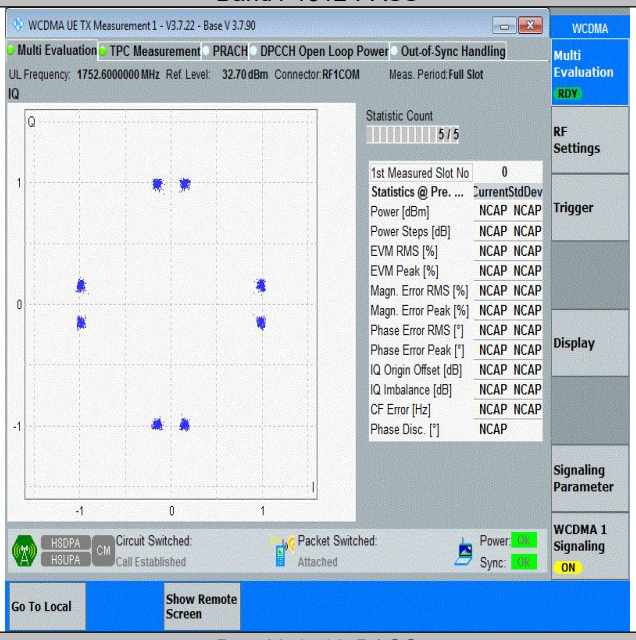
1.7.2 Test Graphs



Band4-1312-PASS



Band4-1413-PASS



Band4-1513-PASS