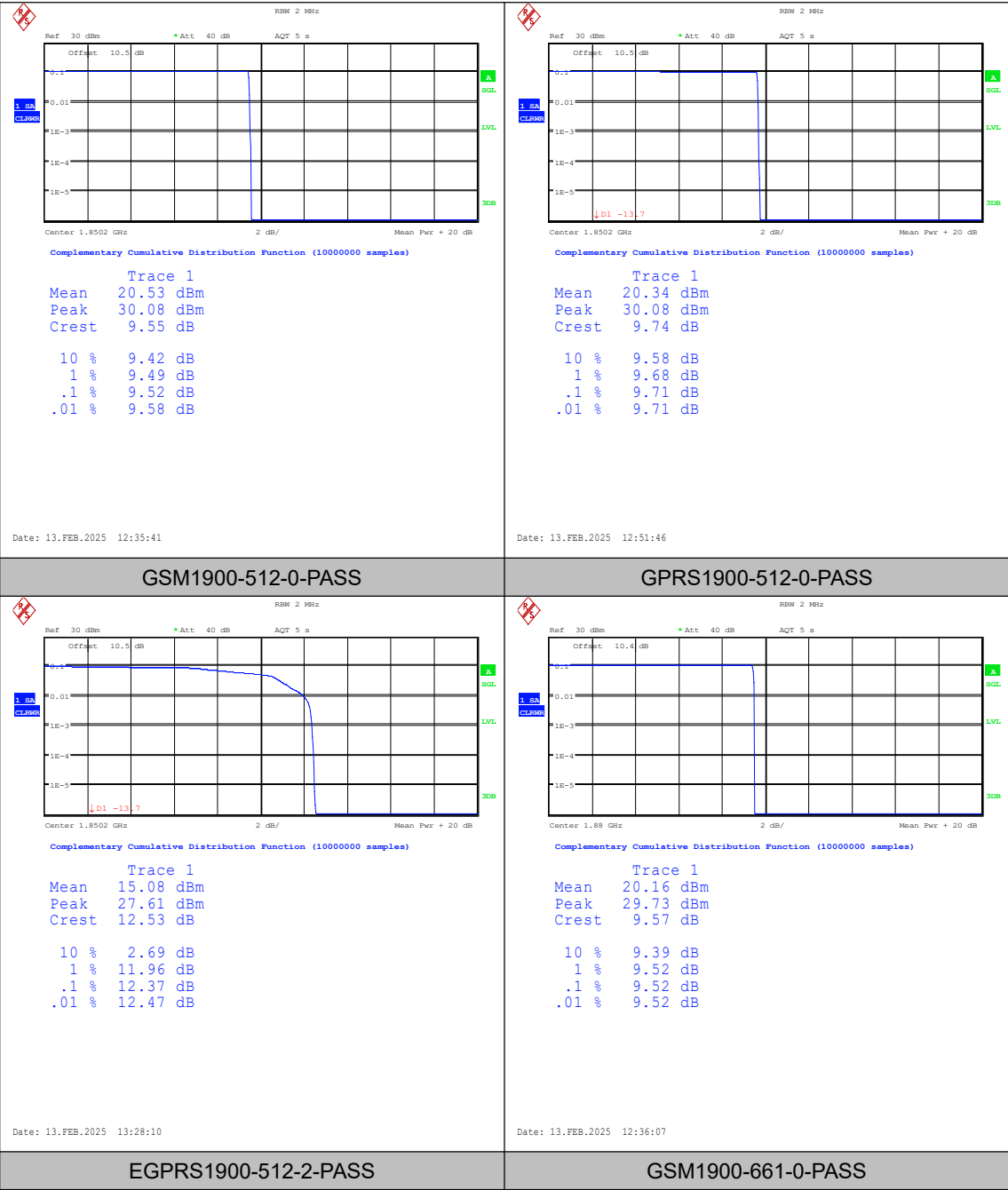


Appendix A : Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.52	13	PASS
GPRS1900	512	9.71	13	PASS
EGPRS1900	512	12.37	13	PASS
GSM1900	661	9.52	13	PASS
GPRS1900	661	9.71	13	PASS
EGPRS1900	661	12.47	13	PASS
GSM1900	810	9.52	13	PASS
GPRS1900	810	9.71	13	PASS
EGPRS1900	810	12.53	13	PASS

Test Graphs



EGPRS1900-512-2-PASS

Ref 30 dBm

Offset 10.4 dB

Att 40 dB

AQT 5 s

1 SA

CLIPPER

30dB

20dB

10dB

0dB

-10dB

-20dB

-30dB

-40dB

-50dB

Center 1.88 GHz

2 dB/

Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (10000000 samples)

Trace 1

Mean 20.16 dBm

Peak 29.73 dBm

Crest 9.57 dB

10 % 9.39 dB

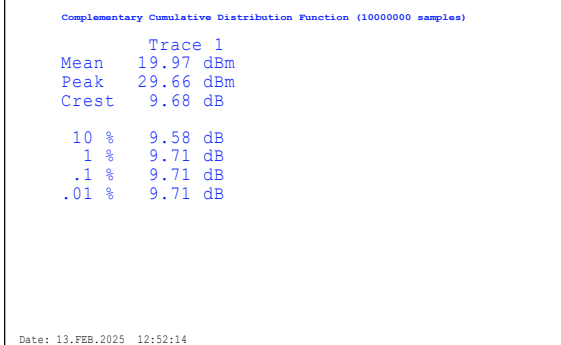
1 % 9.52 dB

.1 % 9.52 dB

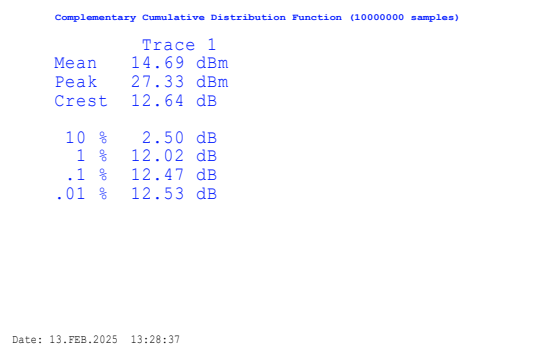
.01 % 9.52 dB

Date: 13.FEB.2025 12:36:07

GSM1900-661-0-PASS

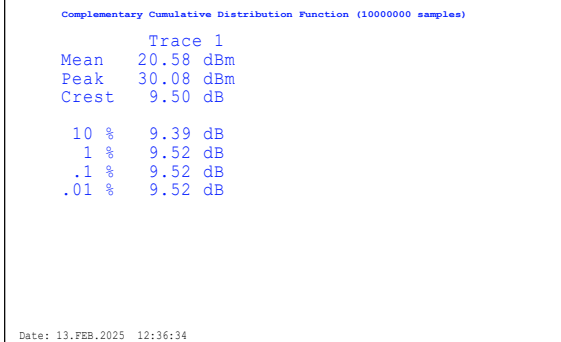


GPRS1900-661-0-PASS

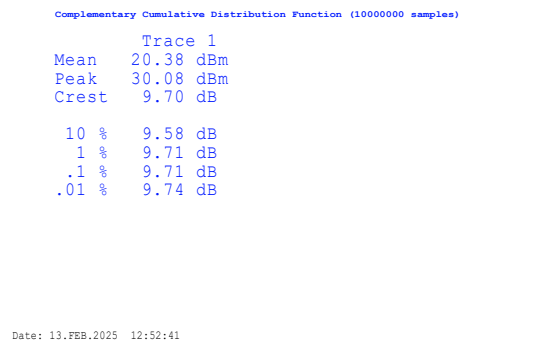


EGPRS1900-661-2-PASS

EGPRS1900-661-2-PASS

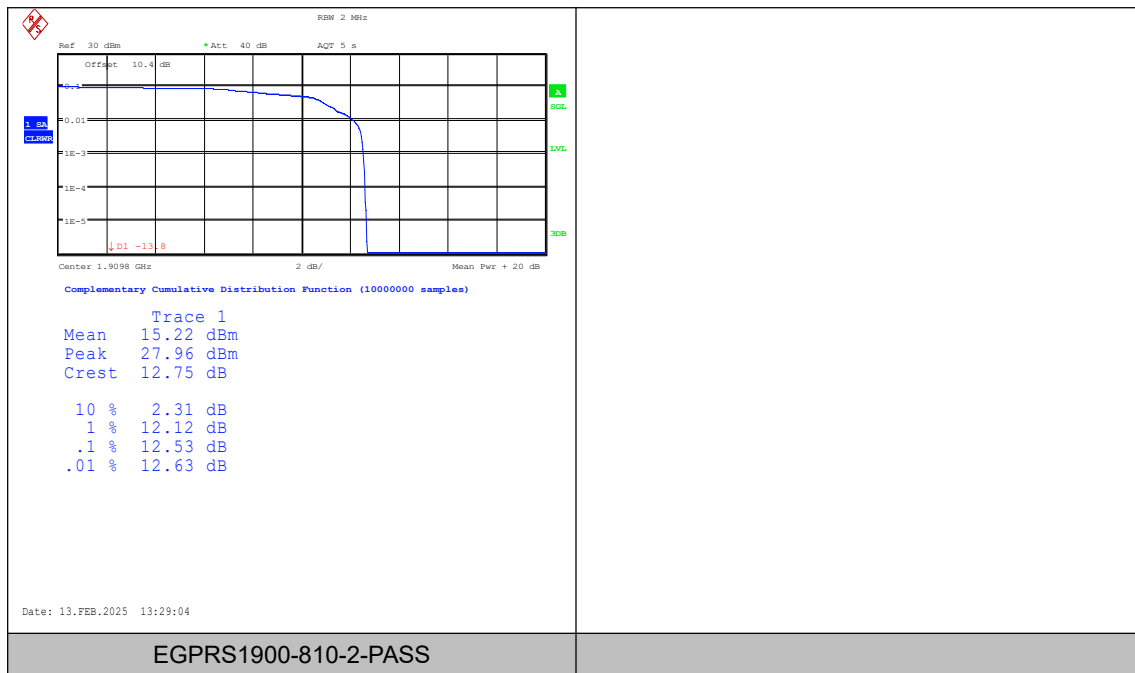


GSM1900-810-0-PASS



GPRS1900-810-0-PASS

GPRS1900-810-0-PASS



Appendix B : 26dB Bandwidth and Occupied Bandwidth

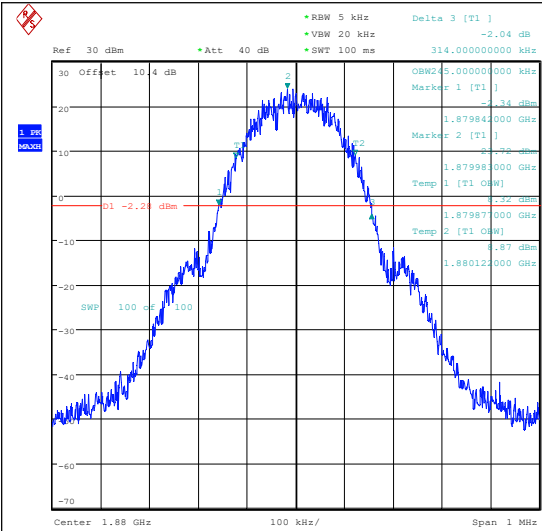
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.244	0.32	---	PASS
GPRS1900	512	0.243	0.31	---	PASS
EGPRS1900	512	0.248	0.32	---	PASS
GSM1900	661	0.241	0.32	---	PASS
GPRS1900	661	0.245	0.31	---	PASS
EGPRS1900	661	0.252	0.31	---	PASS
GSM1900	810	0.246	0.32	---	PASS
GPRS1900	810	0.244	0.30	---	PASS
EGPRS1900	810	0.247	0.31	---	PASS

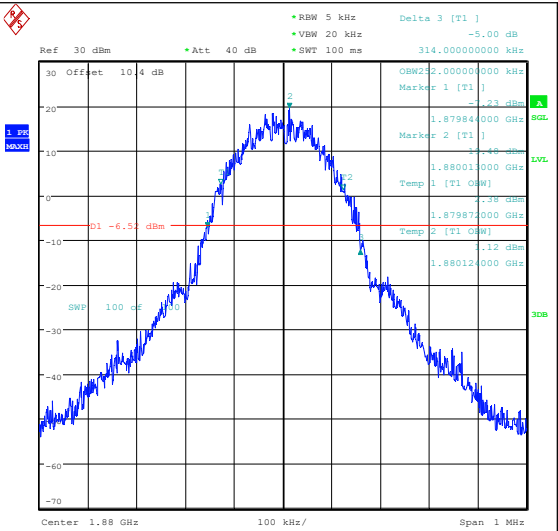
The figure consists of four spectral plots arranged in a 2x2 grid, each showing a different signal. Each plot has a y-axis labeled 'Offset' from -70 to 30 dBm and an x-axis labeled 'Center' at 1.8502 GHz, 'Span' at 1 MHz, and '100 kHz' markers. The plots include various parameters and markers:

- Top Left Plot:** GSM1900-512-0-PASS. Parameters: RBW 5 kHz, Delta 3 [T1], 0.56 dB, VBW 20 kHz, SWT 100 ms, 316.000000000 kHz. Markers: Marker 1 [T1] at -1.35 dBm, Marker 2 [T1] at -1.85 dBm, Temp 1 [T1 GSW] at -1.85 dBm, Temp 2 [T1 GSW] at -1.85 dBm. A red line indicates D1 -2.33 dBm.
- Top Right Plot:** GPRS1900-512-0-PASS. Parameters: RBW 5 kHz, Delta 3 [T1], 0.05 dB, VBW 20 kHz, SWT 100 ms, 311.000000000 kHz. Markers: Marker 1 [T1] at -1.19 dBm, Marker 2 [T1] at -1.19 dBm, Temp 1 [T1 GSW] at -1.19 dBm, Temp 2 [T1 GSW] at -1.19 dBm. A red line indicates D1 -2.03 dBm.
- Bottom Left Plot:** EGPRS1900-512-2-PASS. Parameters: RBW 5 kHz, Delta 3 [T1], 1.27 dB, VBW 20 kHz, SWT 100 ms, 317.000000000 kHz. Markers: Marker 1 [T1] at -1.38 dBm, Marker 2 [T1] at -1.38 dBm, Temp 1 [T1 GSW] at -1.38 dBm, Temp 2 [T1 GSW] at -1.38 dBm. A red line indicates D1 -6.94 dBm.
- Bottom Right Plot:** GSM1900-661-0-PASS. Parameters: RBW 5 kHz, Delta 3 [T1], -0.96 dB, VBW 20 kHz, SWT 100 ms, 315.000000000 kHz. Markers: Marker 1 [T1] at -1.73 dBm, Marker 2 [T1] at -1.73 dBm, Temp 1 [T1 GSW] at -1.73 dBm, Temp 2 [T1 GSW] at -1.73 dBm. A red line indicates D1 -2.09 dBm.

Each plot also includes a 'SWP' (Sweep) parameter set to 100 dB and a '1. ps' (Power Spectral Density) label. The plots are labeled with 'A' (Amplitude) and 'SGL' (Single) in the top right corner.



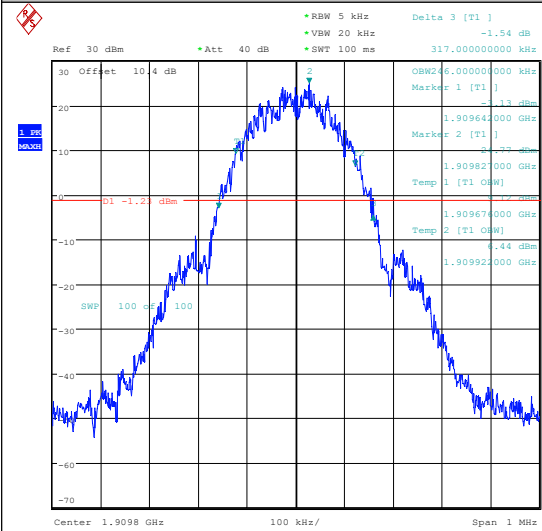
Date: 13.FEB.2025 13:18:59



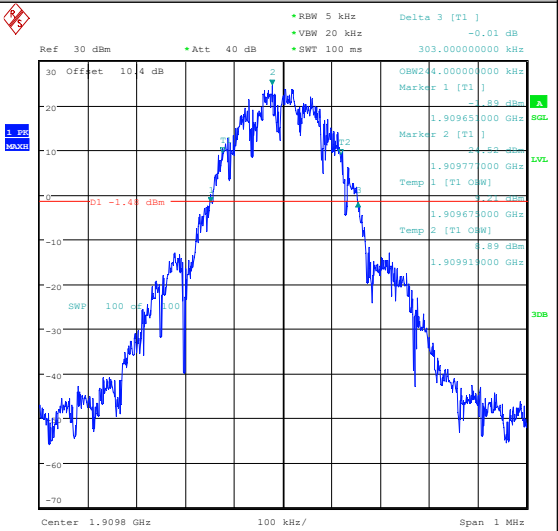
Date: 13.FEB.2025 13:55:27

GPRS1900-661-0-PASS

EGPRS1900-661-2-PASS



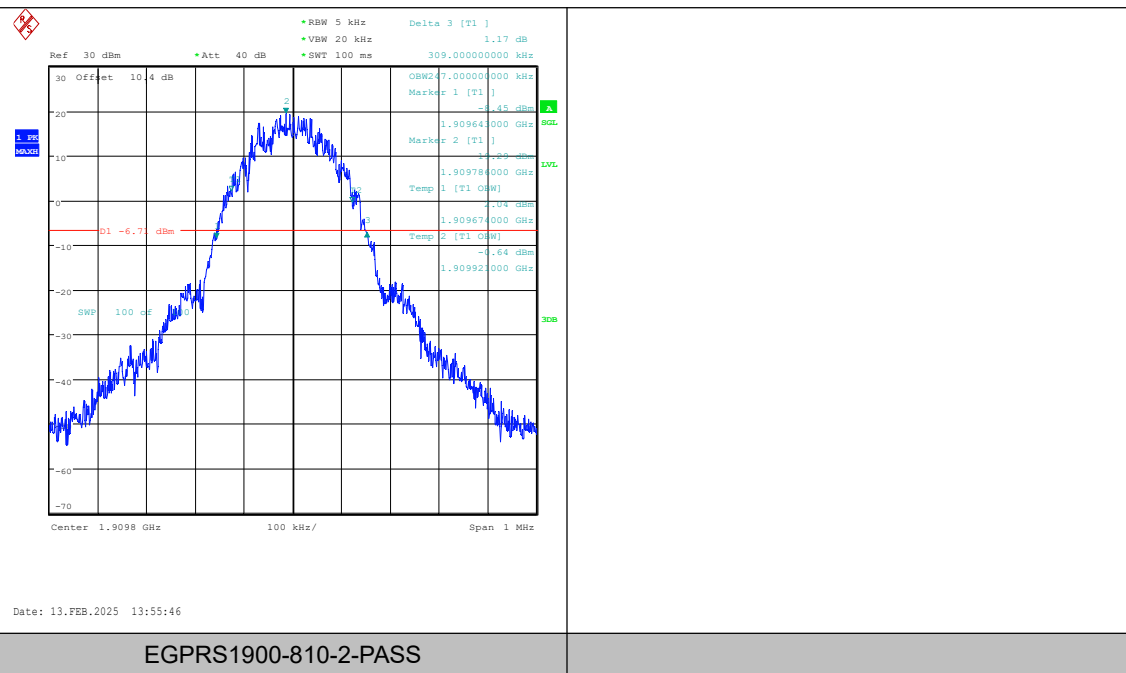
Date: 13.FEB.2025 12:42:58



Date: 13.FEB.2025 13:19:19

GSM1900-810-0-PASS

GPRS1900-810-0-PASS

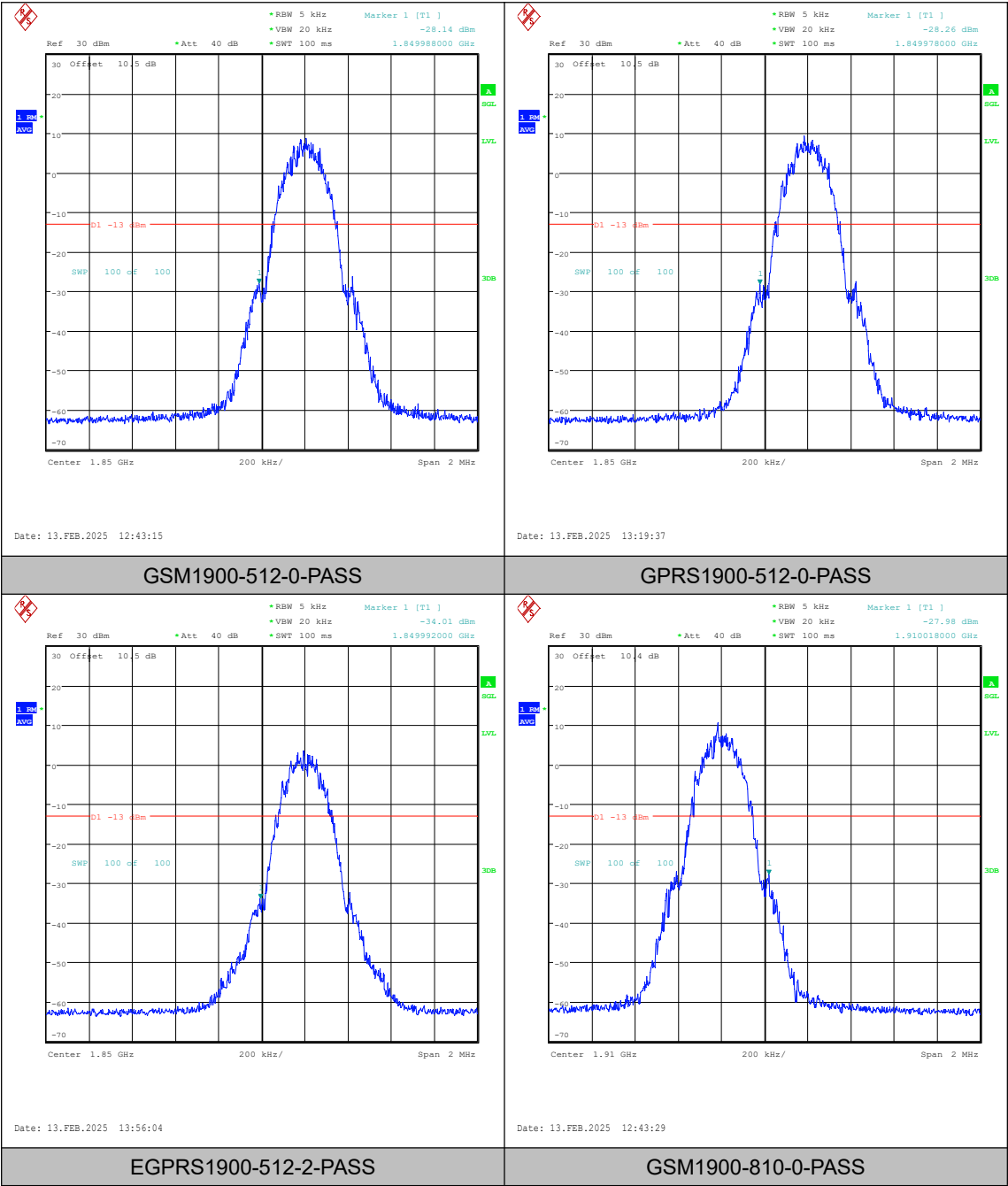


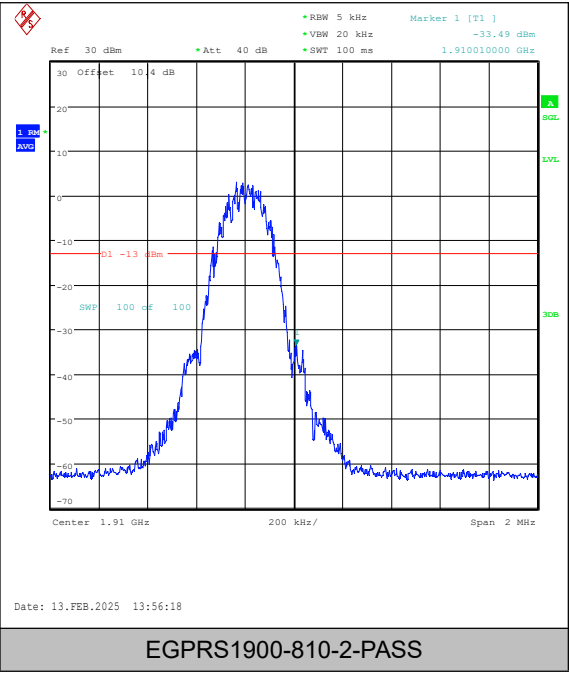
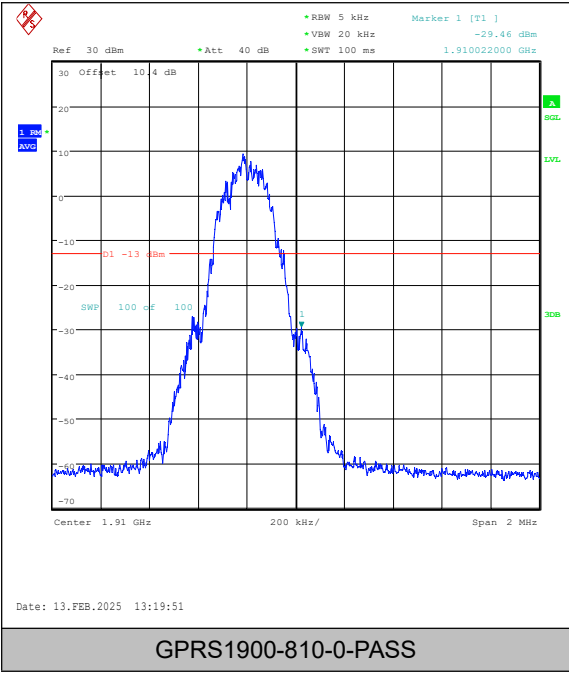
Appendix C : Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1849.99	-28.14	-13	PASS
GPRS1900	512	1849.98	-28.26	-13	PASS
EGPRS1900	512	1849.99	-34.01	-13	PASS
GSM1900	810	1910.02	-27.98	-13	PASS
GPRS1900	810	1910.02	-29.46	-13	PASS
EGPRS1900	810	1910.01	-33.49	-13	PASS

Test Graphs





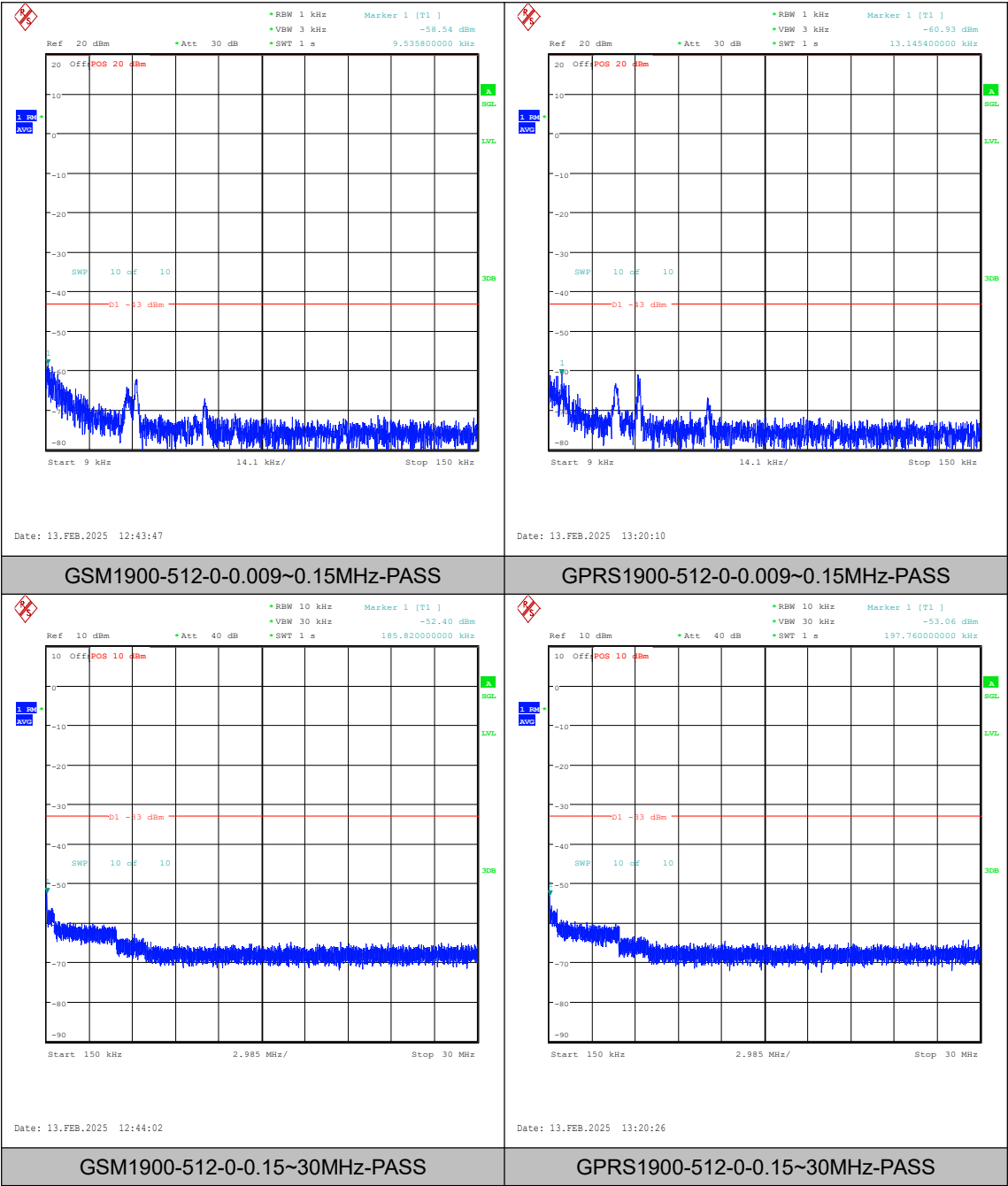
Appendix D : Conducted Spurious Emission

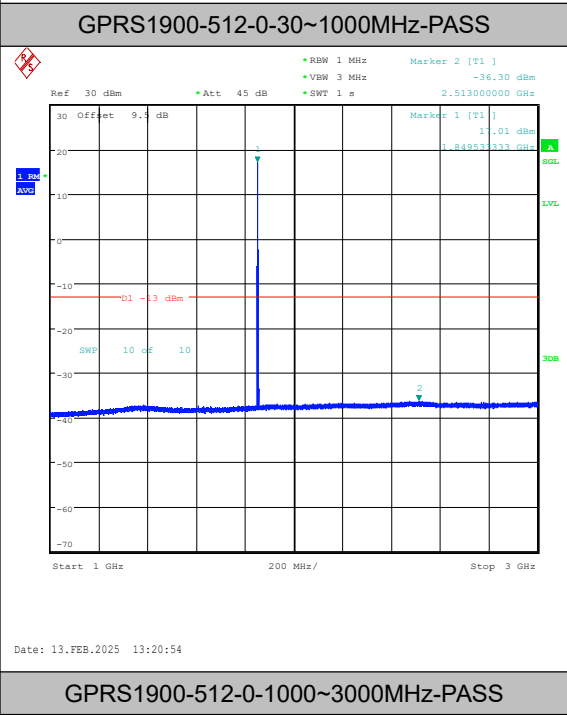
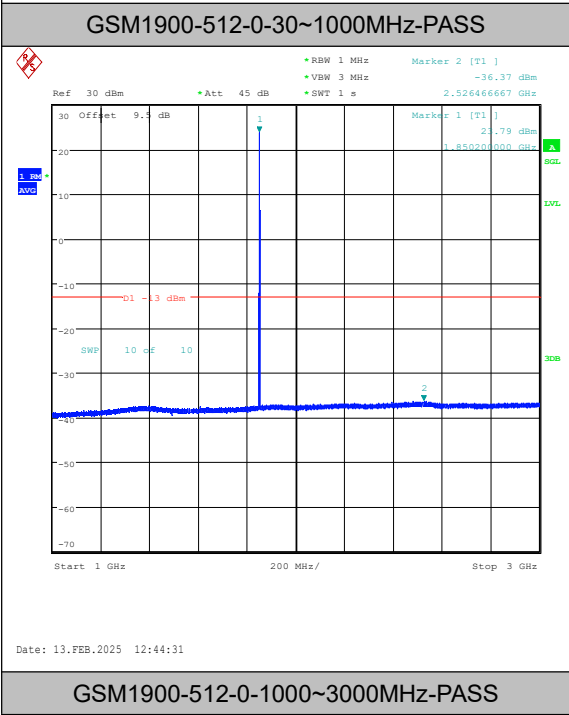
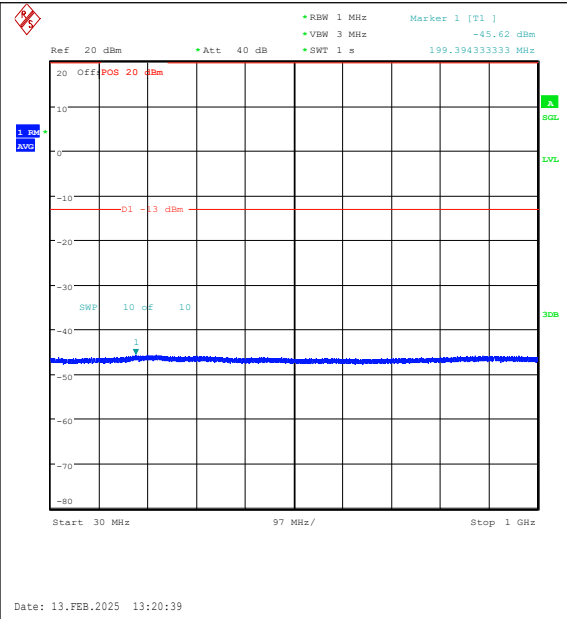
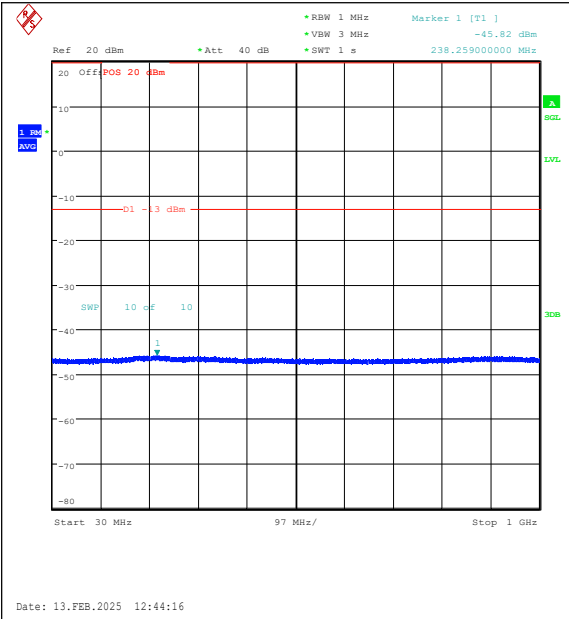
Test Result

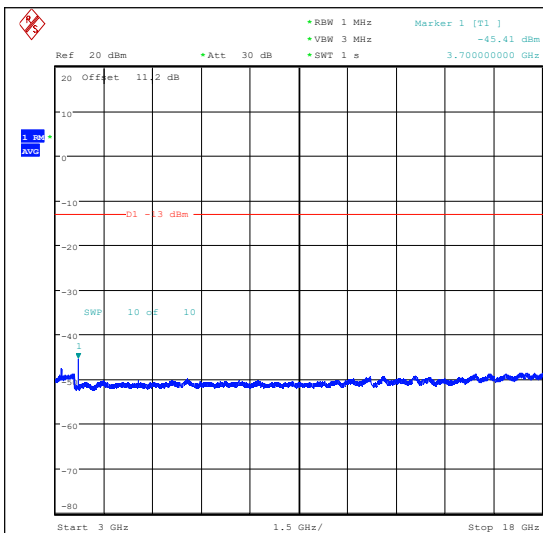
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-58.54	-43	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-60.93	-43	PASS
GSM1900	512	0.15~30MHz	0.19	-52.4	-33	PASS
GPRS1900	512	0.15~30MHz	0.2	-53.06	-33	PASS
GSM1900	512	30~1000MHz	238.26	-45.82	-13	PASS
GPRS1900	512	30~1000MHz	199.39	-45.62	-13	PASS
GSM1900	512	1000~3000MHz	2526.47	-36.37	-13	PASS
GPRS1900	512	1000~3000MHz	2513	-36.3	-13	PASS
GSM1900	512	3000~18000MHz	3700	-45.41	-13	PASS
GPRS1900	512	3000~18000MHz	3177.5	-45.44	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-59.21	-43	PASS
EGPRS1900	512	0.15~30MHz	0.18	-52.15	-33	PASS
EGPRS1900	512	30~1000MHz	225.23	-45.78	-13	PASS
EGPRS1900	512	1000~3000MHz	2528.8	-36.34	-13	PASS
EGPRS1900	512	3000~18000MHz	3175.5	-45.74	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-56.93	-43	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-60.13	-43	PASS
GSM1900	661	0.15~30MHz	0.15	-53.04	-33	PASS
GPRS1900	661	0.15~30MHz	0.19	-52.52	-33	PASS
GSM1900	661	30~1000MHz	227.2	-45.86	-13	PASS
GPRS1900	661	30~1000MHz	223.22	-45.76	-13	PASS
GSM1900	661	1000~3000MHz	2504	-36.38	-13	PASS
GPRS1900	661	1000~3000MHz	2514.93	-36.3	-13	PASS
GSM1900	661	3000~18000MHz	3760	-42.73	-13	PASS
GPRS1900	661	3000~18000MHz	3190	-45.43	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-58.36	-43	PASS
EGPRS1900	661	0.15~30MHz	0.19	-52.75	-33	PASS
EGPRS1900	661	30~1000MHz	201.11	-45.68	-13	PASS
EGPRS1900	661	1000~3000MHz	2473.6	-36.28	-13	PASS
EGPRS1900	661	3000~18000MHz	3177	-45.33	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-56.56	-43	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-58.56	-43	PASS
GSM1900	810	0.15~30MHz	0.19	-53	-33	PASS
GPRS1900	810	0.15~30MHz	0.19	-52.34	-33	PASS
GSM1900	810	30~1000MHz	199.98	-45.66	-13	PASS
GPRS1900	810	30~1000MHz	228.3	-45.67	-13	PASS

GSM1900	810	1000~3000MHz	2496.2	-36.32	-13	PASS
GPRS1900	810	1000~3000MHz	2542.2	-36.21	-13	PASS
GSM1900	810	3000~18000MHz	3819	-42.61	-13	PASS
GPRS1900	810	3000~18000MHz	3819.5	-45.38	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-59.25	-43	PASS
EGPRS1900	810	0.15~30MHz	0.19	-52.65	-33	PASS
EGPRS1900	810	30~1000MHz	235.06	-45.76	-13	PASS
EGPRS1900	810	1000~3000MHz	2519.07	-36.35	-13	PASS
EGPRS1900	810	3000~18000MHz	3178	-45.92	-13	PASS

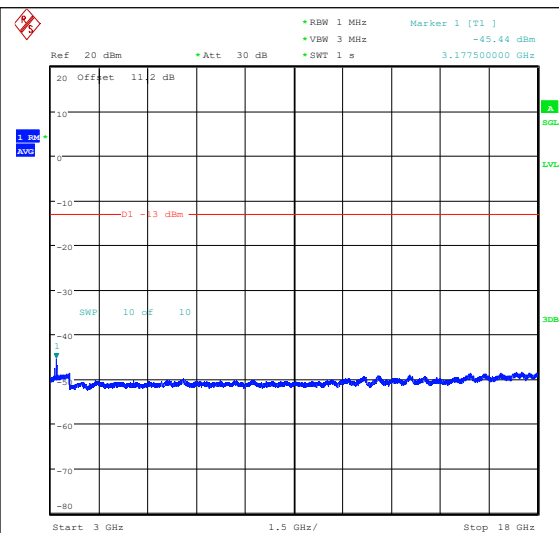
Test Graphs





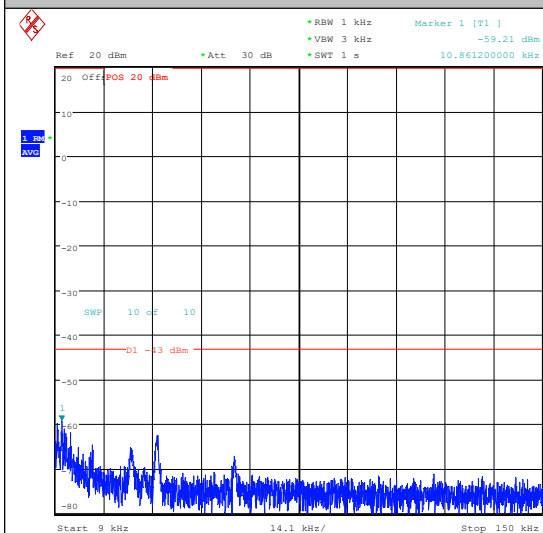


Date: 13.FEB.2025 12:44:46



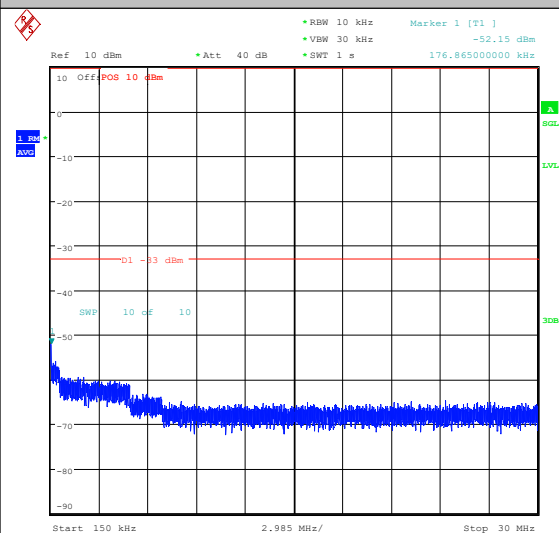
Date: 13.FEB.2025 13:21:09

GSM1900-512-0-3000~18000MHz-PASS



Date: 13.FEB.2025 13:56:38

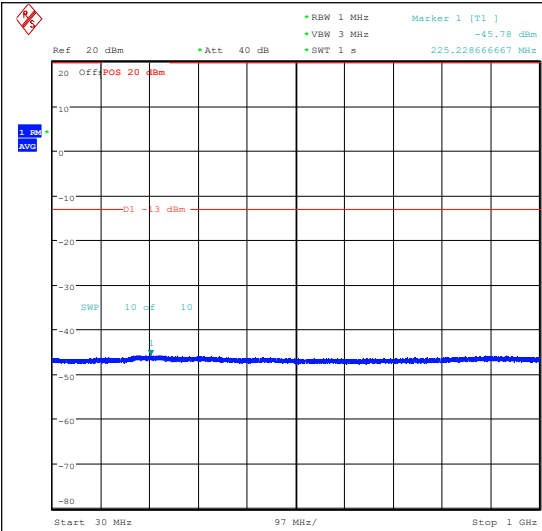
GPRS1900-512-0-3000~18000MHz-PASS



Date: 13.FEB.2025 13:56:53

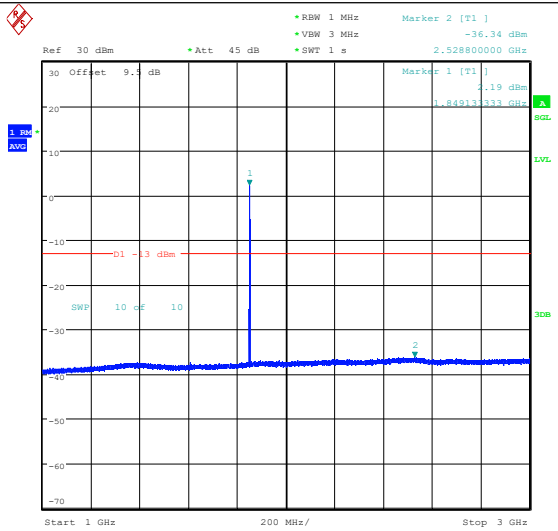
EGPRS1900-512-2-0.009~0.15MHz-PASS

EGPRS1900-512-2-0.15~30MHz-PASS



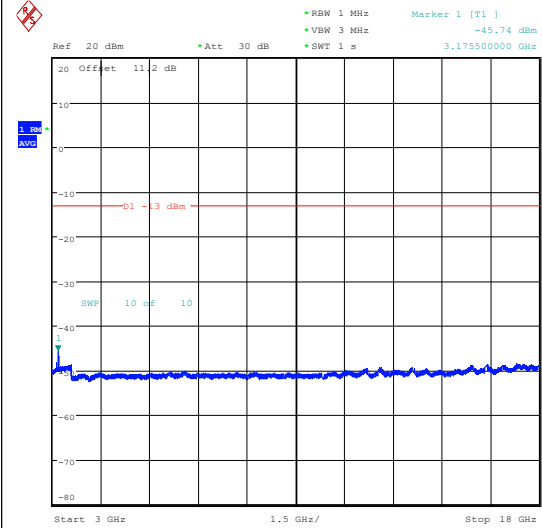
Date: 13.FEB.2025 13:57:07

EGPRS1900-512-2-30~1000MHz-PASS



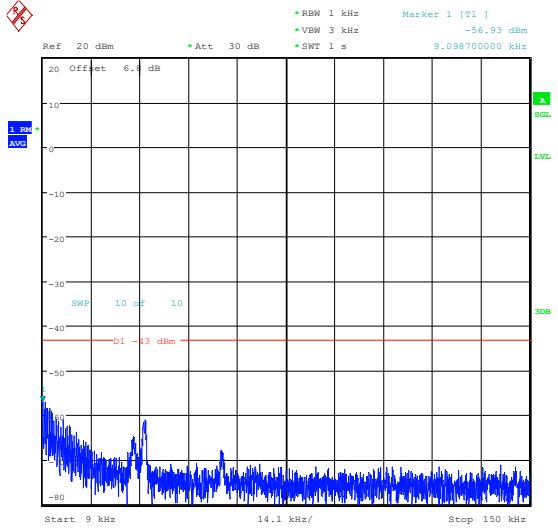
Date: 13.FEB.2025 13:57:22

EGPRS1900-512-2-1000~3000MHz-PASS



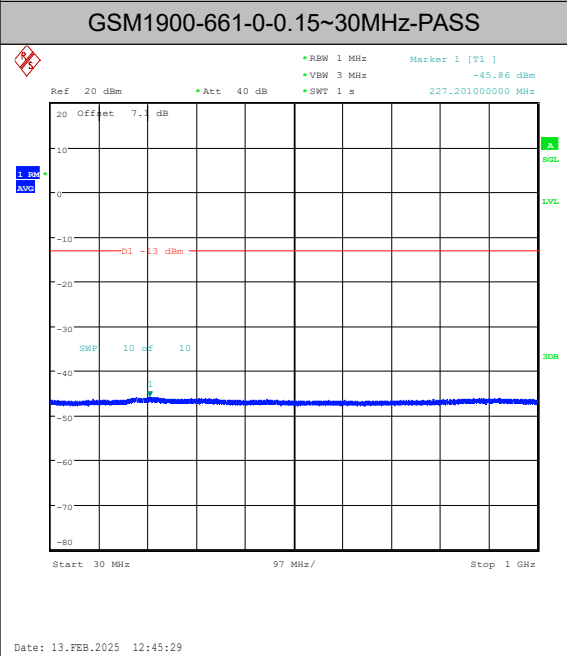
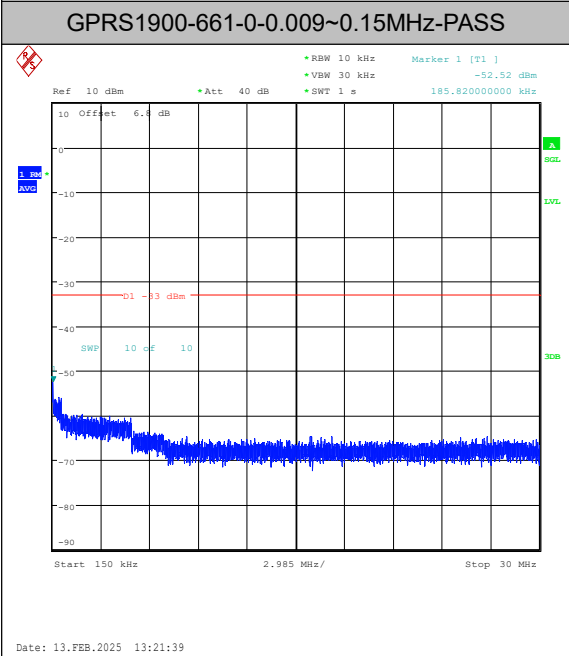
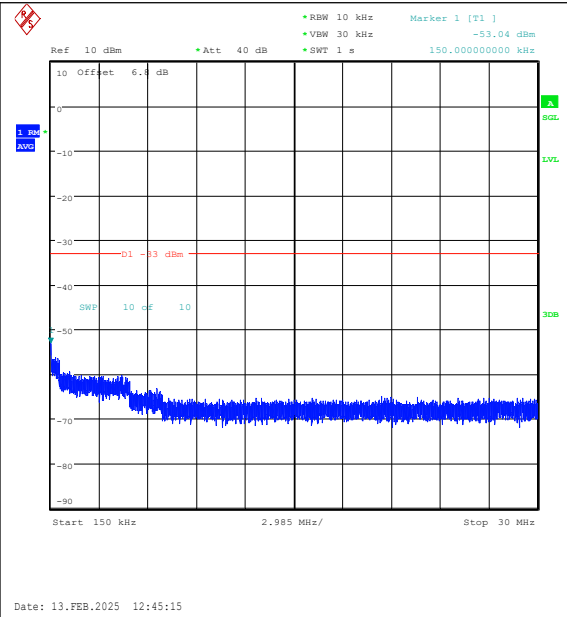
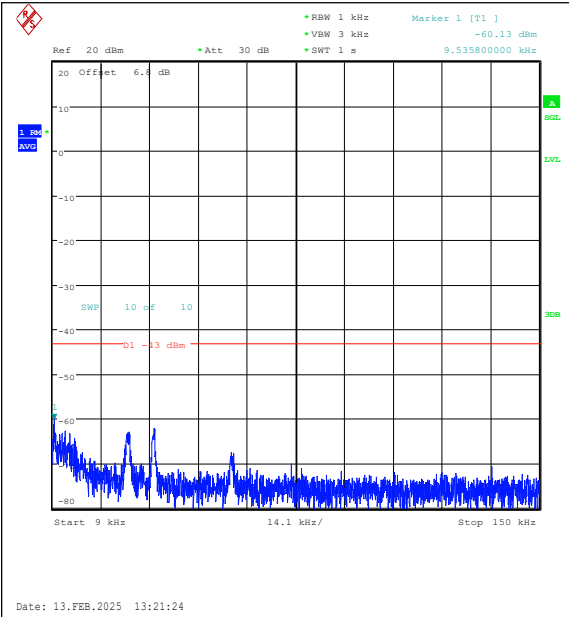
Date: 13.FEB.2025 13:57:36

EGPRS1900-512-2-3000~18000MHz-PASS



Date: 13.FEB.2025 12:45:00

GSM1900-661-0-0.009~0.15MHz-PASS

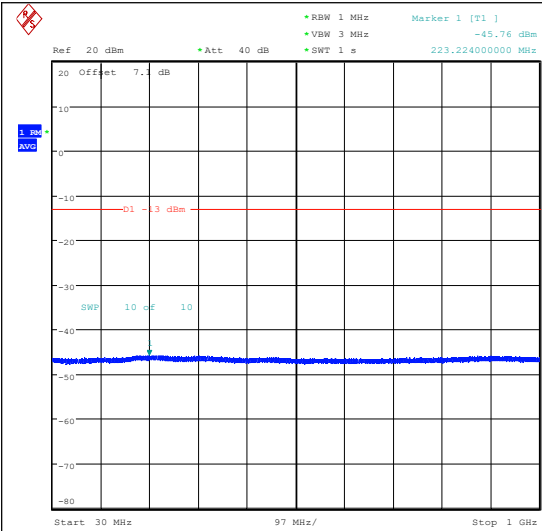


GPRS1900-661-0-0.009~0.15MHz-PASS

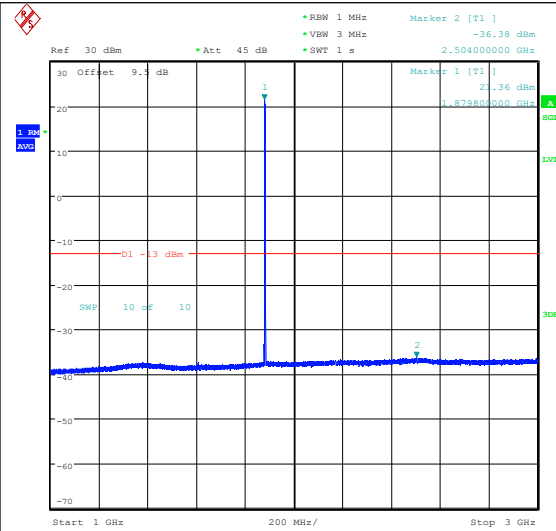
GSM1900-661-0-0.15~30MHz-PASS

GPRS1900-661-0-0.15~30MHz-PASS

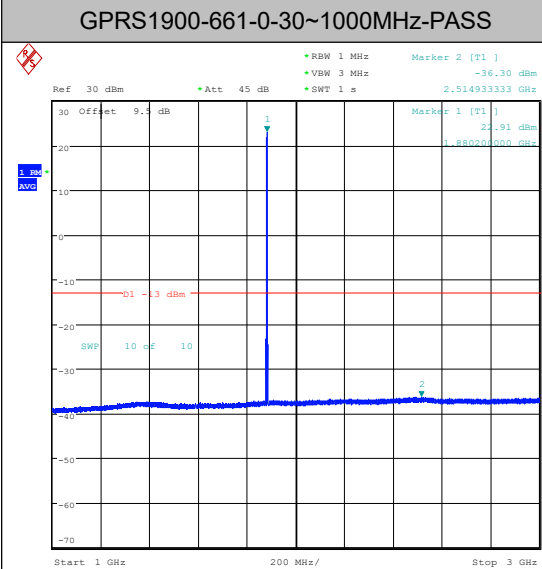
GSM1900-661-0-30~1000MHz-PASS



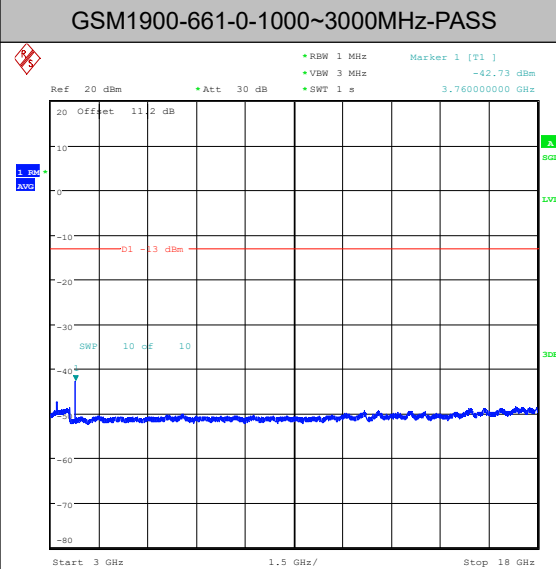
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Date: 13.FEB.2025 12:45:44



Date: 13.FEB.2025 13:22:09



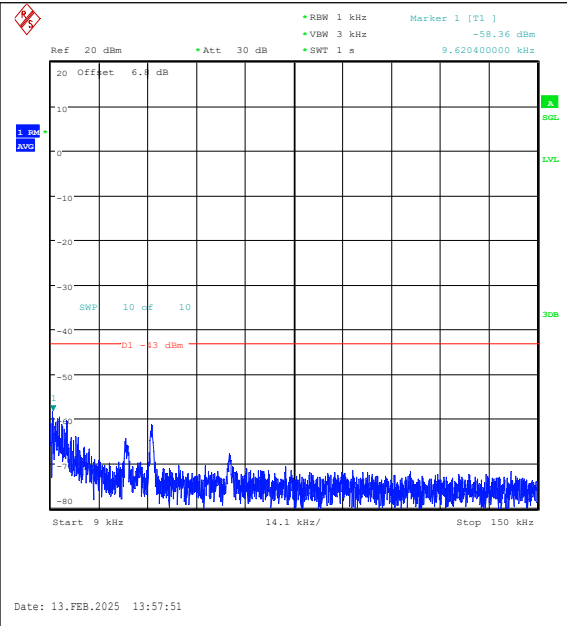
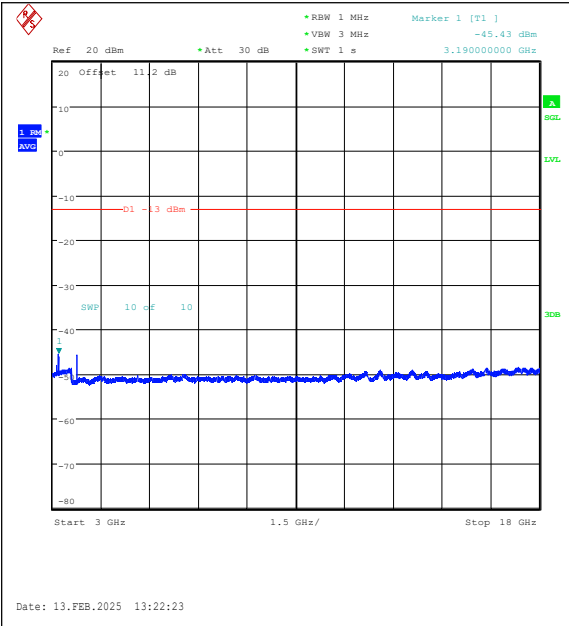
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GPRS1900-661-0-30~1000MHz-PASS

GSM1900-661-0-1000~3000MHz-PASS

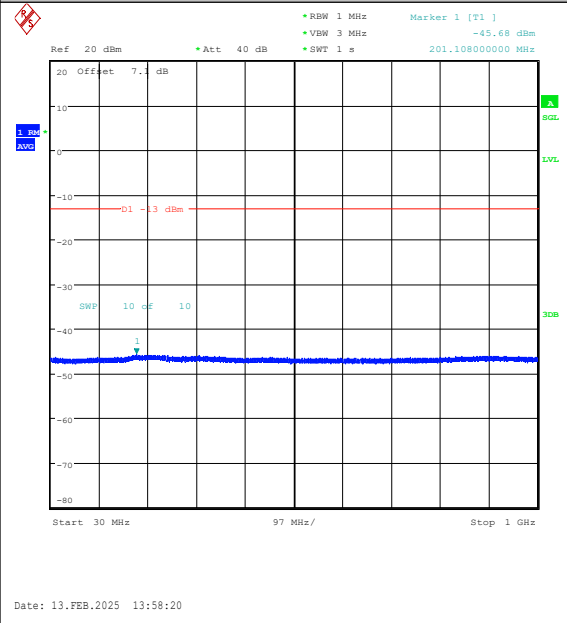
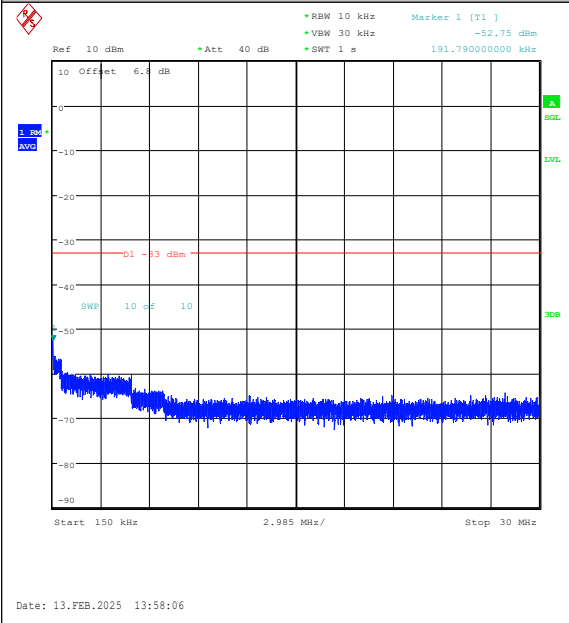
GPRS1900-661-0-1000~3000MHz-PASS

GSM1900-661-0-3000~18000MHz-PASS



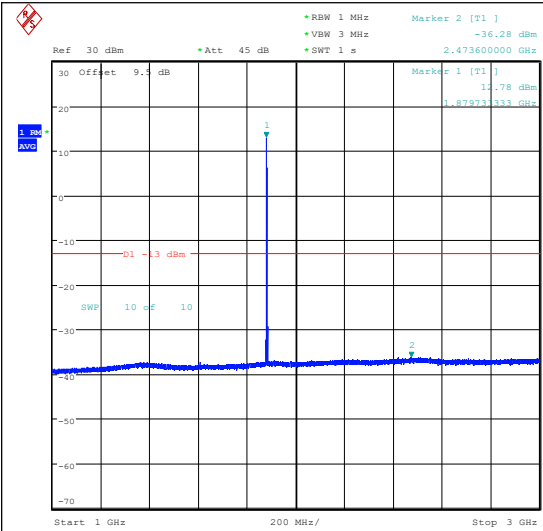
GPRS1900-661-0-3000~18000MHz-PASS

EGPRS1900-661-2-0.009~0.15MHz-PASS



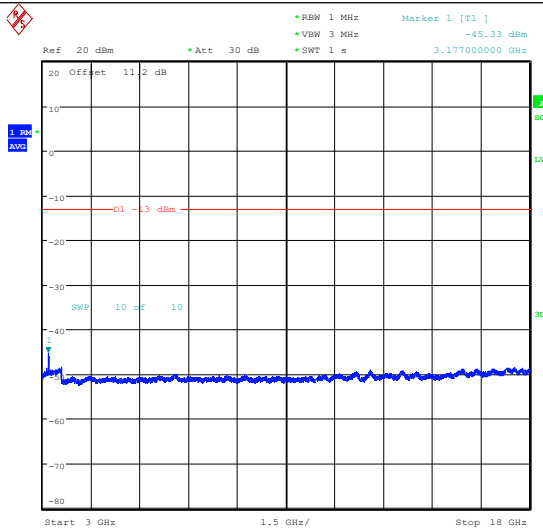
EGPRS1900-661-2-0.15~30MHz-PASS

EGPRS1900-661-2-30~1000MHz-PASS



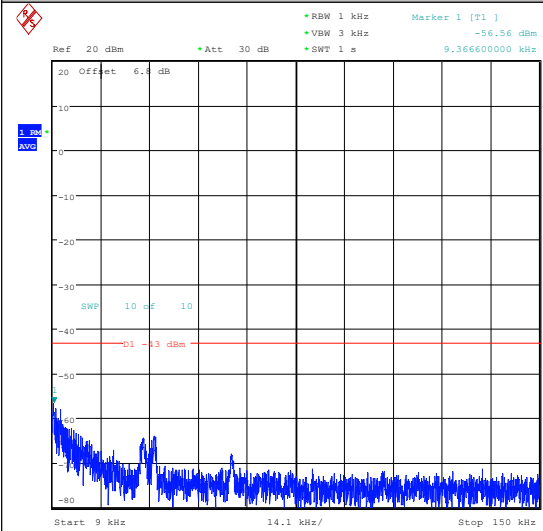
Date: 13.FEB.2025 13:58:35

EGPRS1900-661-2-1000~3000MHz-PASS



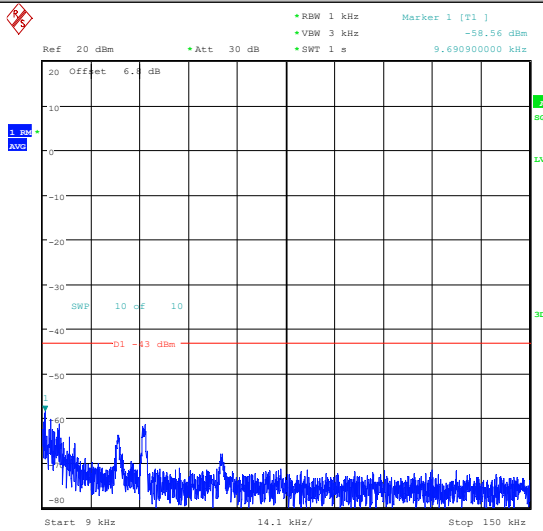
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EGPRS1900-661-2-3000~18000MHz-PASS



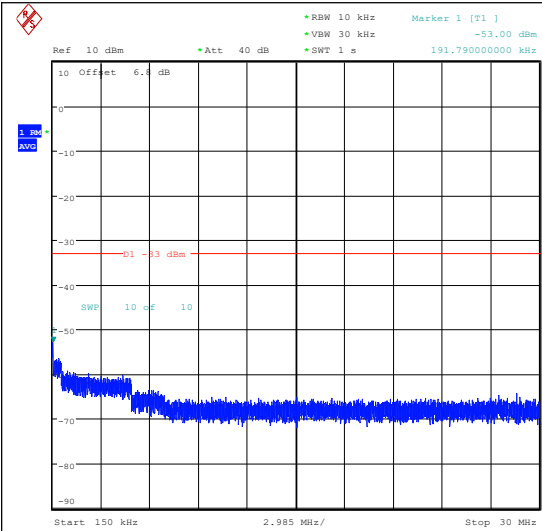
Date: 13.FEB.2025 12:46:13

GSM1900-810-0-0.009~0.15MHz-PASS

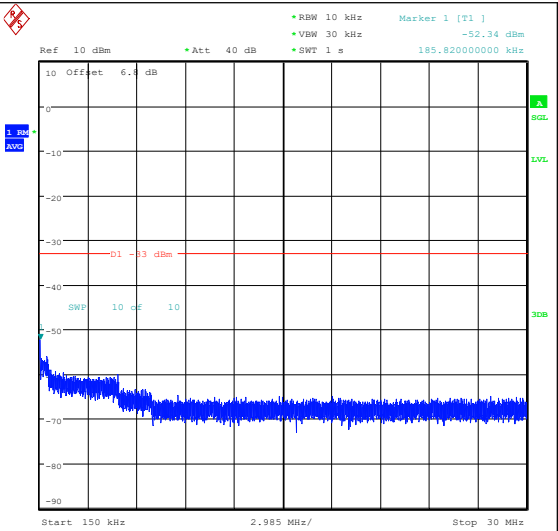


Date: 13.FEB.2025 13:22:38

GPRS1900-810-0-0.009~0.15MHz-PASS



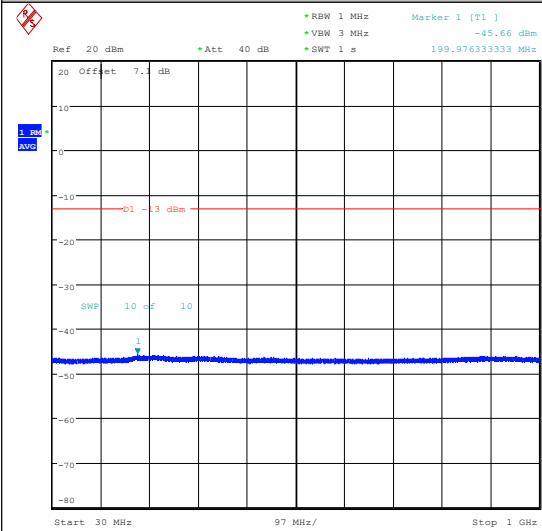
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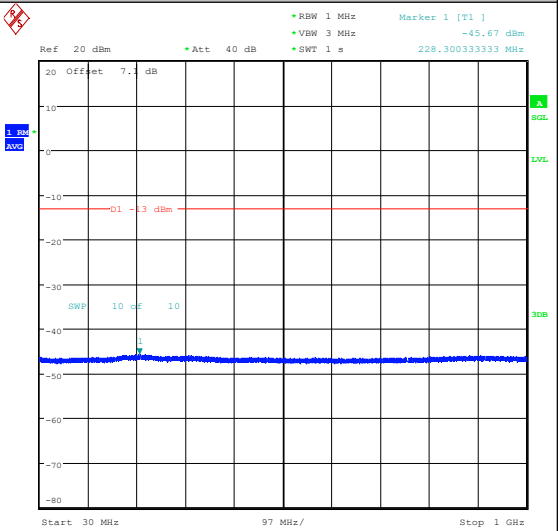
Date: 13.FEB.2025 13:22:54

GSM1900-810-0-0.15~30MHz-PASS

GPRS1900-810-0-0.15~30MHz-PASS



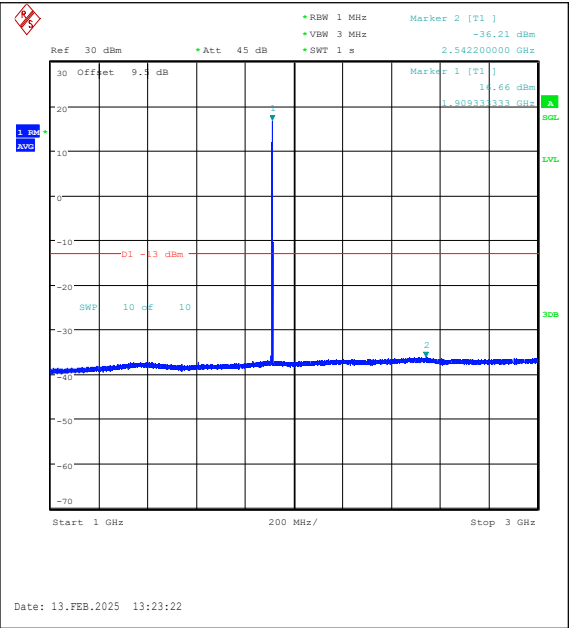
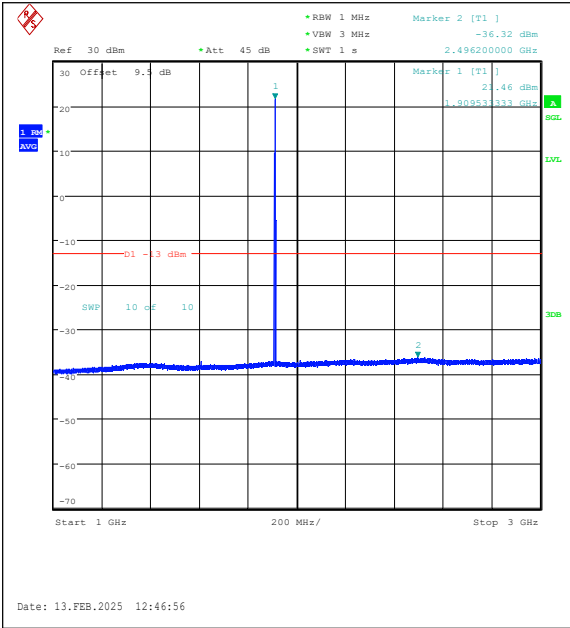
Date: 13.FEB.2025 12:46:41



Date: 13.FEB.2025 13:23:07

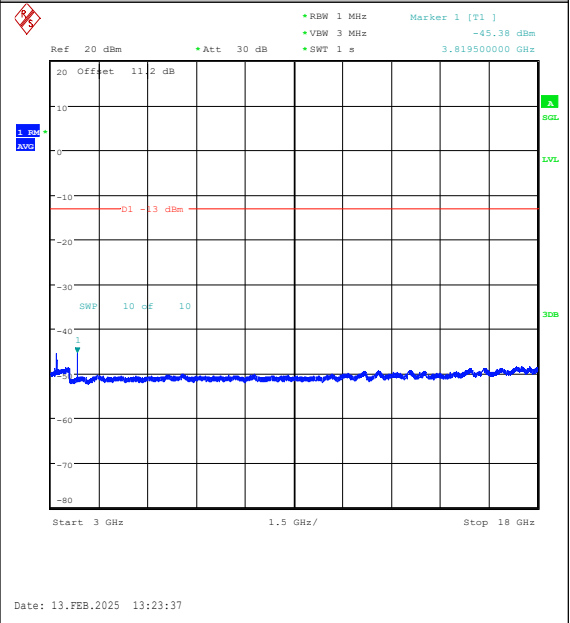
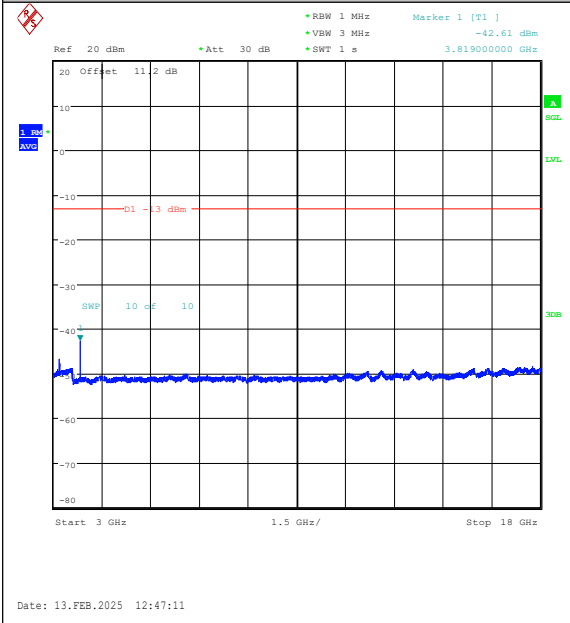
GSM1900-810-0-30~1000MHz-PASS

GPRS1900-810-0-30~1000MHz-PASS



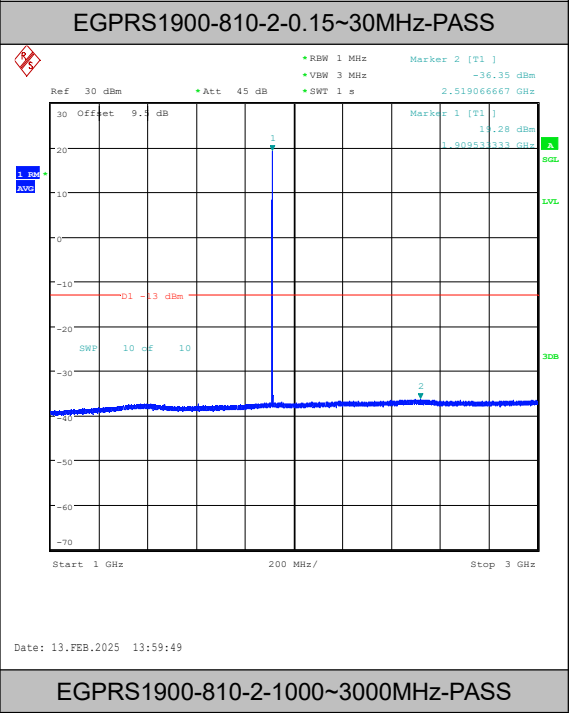
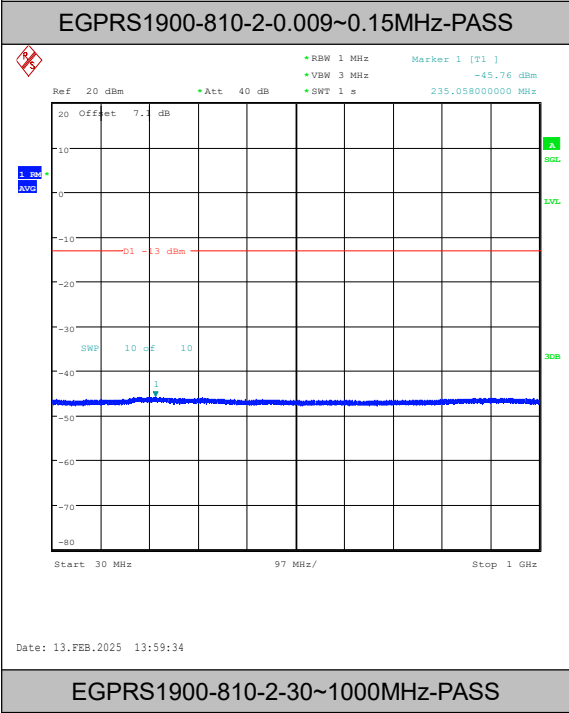
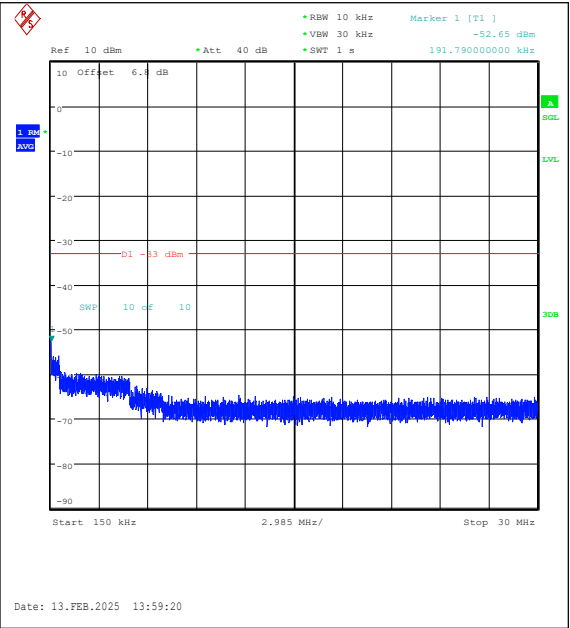
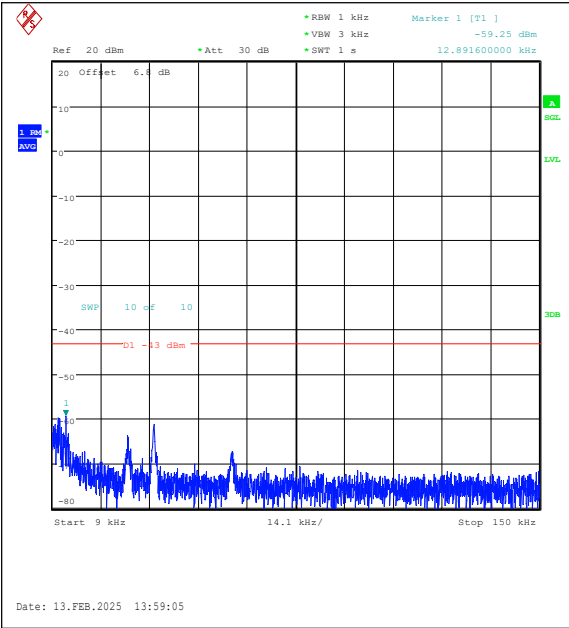
GSM1900-810-0-1000~3000MHz-PASS

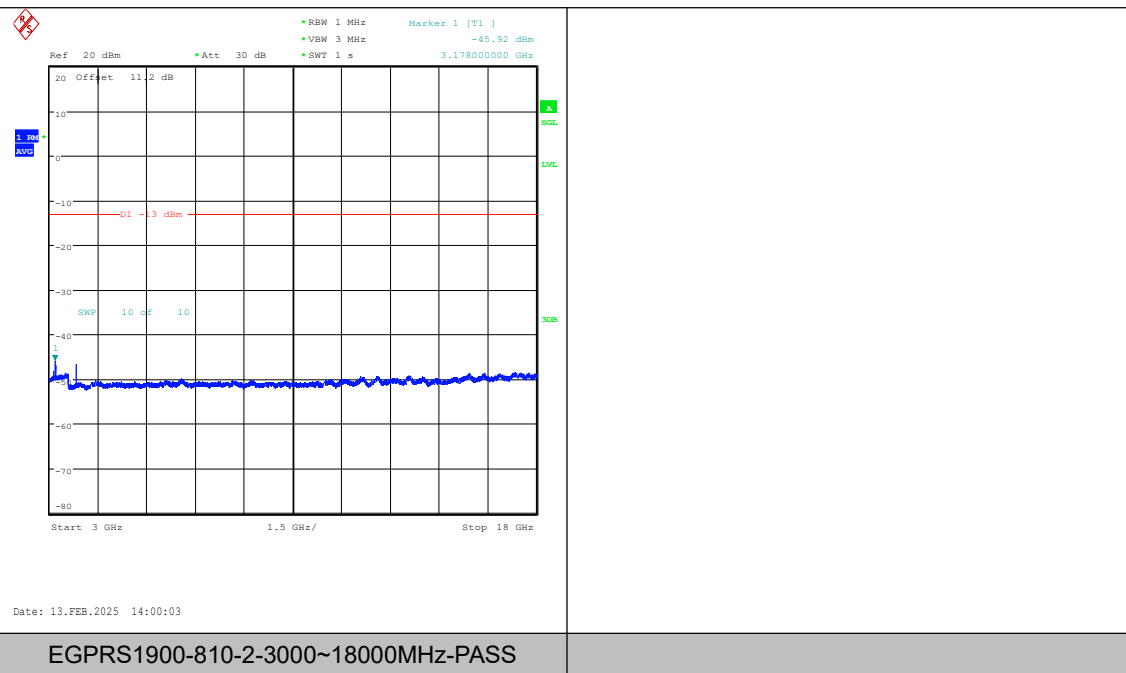
GPRS1900-810-0-1000~3000MHz-PASS



GSM1900-810-0-3000~18000MHz-PASS

GPRS1900-810-0-3000~18000MHz-PASS





Appendix E : Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	VN	NT	-1800.00	-0.972868	±2.5	PASS
GSM1900	512	VN	NT	-1000.00	-0.540482	±2.5	PASS
GSM1900	512	VL	NT	1500.00	0.810723	±2.5	PASS
GSM1900	512	VH	NT	-6000.00	-2.242893	±2.5	PASS
GPRS1900	512	VL	NT	-1750.00	-0.945844	±2.5	PASS
GPRS1900	512	VH	NT	-1000.00	-0.540482	±2.5	PASS
EGPRS1900	512	VN	NT	1000.00	0.540482	±2.5	PASS
EGPRS1900	512	VL	NT	-2000.00	-1.080964	±2.5	PASS
EGPRS1900	512	VH	NT	-5250.00	-2.237531	±2.5	PASS
GSM1900	661	VN	NT	-1750.00	-0.930851	±2.5	PASS
GSM1900	661	VL	NT	-1500.00	-0.797872	±2.5	PASS
GSM1900	661	VH	NT	-1750.00	-0.930851	±2.5	PASS
GPRS1900	661	VN	NT	-2250.00	-1.196809	±2.5	PASS
GPRS1900	661	VL	NT	-1250.00	-0.664894	±2.5	PASS
GPRS1900	661	VH	NT	-1500.00	-0.797872	±2.5	PASS
EGPRS1900	661	VN	NT	-2500.00	-1.329787	±2.5	PASS
EGPRS1900	661	VL	NT	-2250.00	-1.196809	±2.5	PASS
EGPRS1900	661	VH	NT	-2750.00	-1.462766	±2.5	PASS
GSM1900	810	VN	NT	-3000.00	-1.570845	±2.5	PASS
GSM1900	810	VL	NT	-1500.00	-0.785423	±2.5	PASS
GSM1900	810	VH	NT	-2250.00	-1.178134	±2.5	PASS
GPRS1900	810	VN	NT	-1250.00	-0.654519	±2.5	PASS
GPRS1900	810	VL	NT	-1750.00	-0.916326	±2.5	PASS
GPRS1900	810	VH	NT	-2000.00	-1.047230	±2.5	PASS
EGPRS1900	810	VN	NT	-750.00	-0.392711	±2.5	PASS
EGPRS1900	810	VL	NT	-2500.00	-1.309038	±2.5	PASS
EGPRS1900	810	VH	NT	-2500.00	-1.309038	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	-1750.00	-0.945844	±2.5	PASS
GSM1900	512	NV	-20	1250.00	0.675603	±2.5	PASS
GSM1900	512	NV	-10	-4000.00	-2.161928	±2.5	PASS

GSM1900	512	NV	0	-1750.00	-0.945844	±2.5	PASS
GSM1900	512	NV	10	-2250.00	-1.216085	±2.5	PASS
GSM1900	512	NV	20	-1250.00	-0.675603	±2.5	PASS
GSM1900	512	NV	30	-2500.00	-1.351205	±2.5	PASS
GSM1900	512	NV	40	-2500.00	-1.351205	±2.5	PASS
GSM1900	512	NV	50	3000.00	1.621446	±2.5	PASS
GPRS1900	512	NV	-30	-1400.00	-0.756675	±2.5	PASS
GPRS1900	512	NV	-20	-1800.00	-0.972868	±2.5	PASS
GPRS1900	512	NV	-10	-1250.00	-0.675603	±2.5	PASS
GPRS1900	512	NV	0	-1850.00	-0.999892	±2.5	PASS
GPRS1900	512	NV	10	-2700.00	-1.459302	±2.5	PASS
GPRS1900	512	NV	20	-900.00	-0.486434	±2.5	PASS
GPRS1900	512	NV	30	-1450.00	-0.783699	±2.5	PASS
GPRS1900	512	NV	40	-1550.00	-0.837747	±2.5	PASS
GPRS1900	512	NV	50	-3050.00	-1.648470	±2.5	PASS
EGPRS1900	512	NV	-30	-5250.00	-2.137531	±2.5	PASS
EGPRS1900	512	NV	-20	-2500.00	-1.351205	±2.5	PASS
EGPRS1900	512	NV	-10	-1500.00	-0.810723	±2.5	PASS
EGPRS1900	512	NV	0	-2250.00	-1.216085	±2.5	PASS
EGPRS1900	512	NV	10	-3250.00	-1.756567	±2.5	PASS
EGPRS1900	512	NV	20	-3750.00	-2.026808	±2.5	PASS
EGPRS1900	512	NV	30	-4500.00	-2.432169	±2.5	PASS
EGPRS1900	512	NV	40	2750.00	1.486326	±2.5	PASS
EGPRS1900	512	NV	50	-6750.00	-1.648254	±2.5	PASS
GSM1900	661	NV	-30	-2250.00	-1.196809	±2.5	PASS
GSM1900	661	NV	-20	-1750.00	-0.930851	±2.5	PASS
GSM1900	661	NV	-10	-1500.00	-0.797872	±2.5	PASS
GSM1900	661	NV	0	-2500.00	-1.329787	±2.5	PASS
GSM1900	661	NV	10	-1000.00	-0.531915	±2.5	PASS
GSM1900	661	NV	20	-2250.00	-1.196809	±2.5	PASS
GSM1900	661	NV	30	-2250.00	-1.196809	±2.5	PASS
GSM1900	661	NV	40	-1000.00	-0.531915	±2.5	PASS
GSM1900	661	NV	50	-2000.00	-1.063830	±2.5	PASS
GPRS1900	661	NV	-30	-2000.00	-1.063830	±2.5	PASS
GPRS1900	661	NV	-20	-1750.00	-0.930851	±2.5	PASS
GPRS1900	661	NV	-10	-1750.00	-0.930851	±2.5	PASS
GPRS1900	661	NV	0	-1750.00	-0.930851	±2.5	PASS
GPRS1900	661	NV	10	-1500.00	-0.797872	±2.5	PASS
GPRS1900	661	NV	20	-1750.00	-0.930851	±2.5	PASS
GPRS1900	661	NV	30	-2000.00	-1.063830	±2.5	PASS
GPRS1900	661	NV	40	-1750.00	-0.930851	±2.5	PASS

GPRS1900	661	NV	50	-2000.00	-1.063830	±2.5	PASS
EGPRS1900	661	NV	-30	-2500.00	-1.329787	±2.5	PASS
EGPRS1900	661	NV	-20	-2000.00	-1.063830	±2.5	PASS
EGPRS1900	661	NV	-10	-3000.00	-1.595745	±2.5	PASS
EGPRS1900	661	NV	0	-2250.00	-1.196809	±2.5	PASS
EGPRS1900	661	NV	10	-2750.00	-1.462766	±2.5	PASS
EGPRS1900	661	NV	20	-2500.00	-1.329787	±2.5	PASS
EGPRS1900	661	NV	30	-1750.00	-0.930851	±2.5	PASS
EGPRS1900	661	NV	40	-2250.00	-1.196809	±2.5	PASS
EGPRS1900	661	NV	50	-3000.00	-1.595745	±2.5	PASS
GSM1900	810	NV	-30	-2250.00	-1.178134	±2.5	PASS
GSM1900	810	NV	-20	-1750.00	-0.916326	±2.5	PASS
GSM1900	810	NV	-10	-2250.00	-1.178134	±2.5	PASS
GSM1900	810	NV	0	-2500.00	-1.309038	±2.5	PASS
GSM1900	810	NV	10	-2250.00	-1.178134	±2.5	PASS
GSM1900	810	NV	20	-2500.00	-1.309038	±2.5	PASS
GSM1900	810	NV	30	-2250.00	-1.178134	±2.5	PASS
GSM1900	810	NV	40	-1750.00	-0.916326	±2.5	PASS
GSM1900	810	NV	50	-2250.00	-1.178134	±2.5	PASS
GPRS1900	810	NV	-30	-1250.00	-0.654519	±2.5	PASS
GPRS1900	810	NV	-20	-2000.00	-1.047230	±2.5	PASS
GPRS1900	810	NV	-10	-1500.00	-0.785423	±2.5	PASS
GPRS1900	810	NV	0	-1500.00	-0.785423	±2.5	PASS
GPRS1900	810	NV	10	-1750.00	-0.916326	±2.5	PASS
GPRS1900	810	NV	20	-1750.00	-0.916326	±2.5	PASS
GPRS1900	810	NV	30	-1250.00	-0.654519	±2.5	PASS
GPRS1900	810	NV	40	-1250.00	-0.654519	±2.5	PASS
GPRS1900	810	NV	50	-1750.00	-0.916326	±2.5	PASS
EGPRS1900	810	NV	-30	-3250.00	-1.701749	±2.5	PASS
EGPRS1900	810	NV	-20	-2250.00	-1.178134	±2.5	PASS
EGPRS1900	810	NV	-10	-1250.00	-0.654519	±2.5	PASS
EGPRS1900	810	NV	0	-2750.00	-1.439941	±2.5	PASS
EGPRS1900	810	NV	10	-2500.00	-1.309038	±2.5	PASS
EGPRS1900	810	NV	20	-3500.00	-1.832653	±2.5	PASS
EGPRS1900	810	NV	30	-2750.00	-1.439941	±2.5	PASS
EGPRS1900	810	NV	40	-1500.00	-0.785423	±2.5	PASS
EGPRS1900	810	NV	50	-3000.00	-1.570845	±2.5	PASS