

APPENDIX A. TEST RESULTS OF CONDUCTED TEST

– GSM / WCDMA

1.1 CONDUCTED POWER & EFFECTIVE RADIATED POWER

1.1.1 Test Result

GSM:

Band	Channel	Frequency (MHz)	Conducted Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
GSM850	128	824.2	32.74	25.59	38.5	PASS
GSM850	190	836.6	32.69	25.54	38.5	PASS
GSM850	251	848.8	32.74	25.59	38.5	PASS
GSM1900	512	1850.2	29.56	26.56	33	PASS
GSM1900	661	1880	29.74	26.74	33	PASS
GSM1900	810	1909.8	29.73	26.73	33	PASS
GPRS850	128	824.2	32.79	25.64	38.5	PASS
GPRS850	190	836.6	32.82	25.67	38.5	PASS
GPRS850	251	848.8	32.78	25.63	38.5	PASS
GPRS1900	512	1850.2	29.61	26.61	33	PASS
GPRS1900	661	1880	29.73	26.73	33	PASS
GPRS1900	810	1909.8	29.72	26.72	33	PASS

Band: GSM850	Measured (dBm)		
Test Condition	TNVN		
Channel	128	190	251
Frequency (MHz)	824.2	836.6	848.8
GSM (GMSK, 1 Tx slot)	32.74	32.69	32.74
GPRS (GMSK, 1 Tx slot)	32.79	32.82	32.78
GPRS (GMSK, 2 Tx slots)	29.71	29.73	29.64
GPRS (GMSK, 3 Tx slots)	27.65	27.54	27.45
GPRS (GMSK, 4 Tx slots)	26.37	26.39	26.29
EDGE (8PSK, 1 Tx slot)	26.60	26.30	26.23
EDGE (8PSK, 2 Tx slots)	24.03	23.70	23.61
EDGE (8PSK, 3 Tx slots)	22.28	22.02	22.02
EDGE (8PSK, 4 Tx slots)	20.66	20.42	20.31

Band: PCS1900	Measured (dBm)		
Test Condition	TNVN		
Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM (GMSK, 1 Tx slot)	29.56	29.74	29.73
GPRS (GMSK, 1 Tx slot)	29.61	29.73	29.72
GPRS (GMSK, 2 Tx slots)	27.76	28.00	28.00
GPRS (GMSK, 3 Tx slots)	24.84	25.09	25.15
GPRS (GMSK, 4 Tx slots)	23.49	23.76	23.81
EDGE (8PSK, 1 Tx slot)	25.53	25.48	25.43
EDGE (8PSK, 2 Tx slots)	23.10	23.12	23.17
EDGE (8PSK, 3 Tx slots)	21.27	21.42	21.45
EDGE (8PSK, 4 Tx slots)	20.65	20.67	20.68

WCDMA:

Band	Channel	Frequency (MHz)	Conducted Power(dBm)	ERP/EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	1852.4	23.97	20.97	33	PASS
Band II	9400	1880.0	24.07	21.07	33	PASS
Band II	9538	1907.6	24.09	21.09	33	PASS
Band IV	1312	1712.4	23.81	20.81	30	PASS
Band IV	1413	1732.6	23.91	20.91	30	PASS
Band IV	1513	1752.6	23.82	20.82	30	PASS
Band V	4132	826.4	24.36	17.21	38.5	PASS
Band V	4182	836.4	24.31	17.16	38.5	PASS
Band V	4233	846.6	24.05	16.90	38.5	PASS

Band: WCDMA Band II	Average Power [dBm]		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.97	24.07	24.09
HSDPA Subtest-1	22.95	23.05	23.01
HSDPA Subtest-2	22.23	22.37	22.27
HSDPA Subtest-3	22.20	22.29	22.18
HSDPA Subtest-4	22.11	22.30	22.20
HSUPA Subtest-1	22.82	23.01	22.97
HSUPA Subtest-2	20.87	20.99	20.94
HSUPA Subtest-3	21.75	21.94	21.93
HSUPA Subtest-4	20.81	20.91	20.89
HSUPA Subtest-5	22.85	22.93	22.92

Band: WCDMA Band IV	Average Power [dBm]		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	23.81	23.91	23.82
HSDPA Subtest-1	22.70	22.72	22.66
HSDPA Subtest-2	22.27	22.29	22.21
HSDPA Subtest-3	22.07	22.09	22.06
HSDPA Subtest-4	22.00	22.07	22.08
HSUPA Subtest-1	22.56	22.71	22.71
HSUPA Subtest-2	20.76	20.79	20.77
HSUPA Subtest-3	21.62	21.76	21.72
HSUPA Subtest-4	20.67	20.70	20.69
HSUPA Subtest-5	22.60	22.64	22.56

Band: WCDMA Band V	Average Power [dBm]		
Channel	4,132	4,182	4,233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.36	24.31	24.05
HSDPA Subtest-1	23.39	23.29	23.01
HSDPA Subtest-2	22.54	22.44	22.37
HSDPA Subtest-3	22.47	22.47	22.15
HSDPA Subtest-4	22.47	22.49	22.07
HSUPA Subtest-1	23.19	23.21	22.91
HSUPA Subtest-2	21.28	21.13	20.85
HSUPA Subtest-3	22.29	22.17	21.87
HSUPA Subtest-4	21.25	21.20	20.84
HSUPA Subtest-5	23.22	23.10	22.82

1.2 Peak-to-Average Ratio

1.2.1 Test Result

GSM:

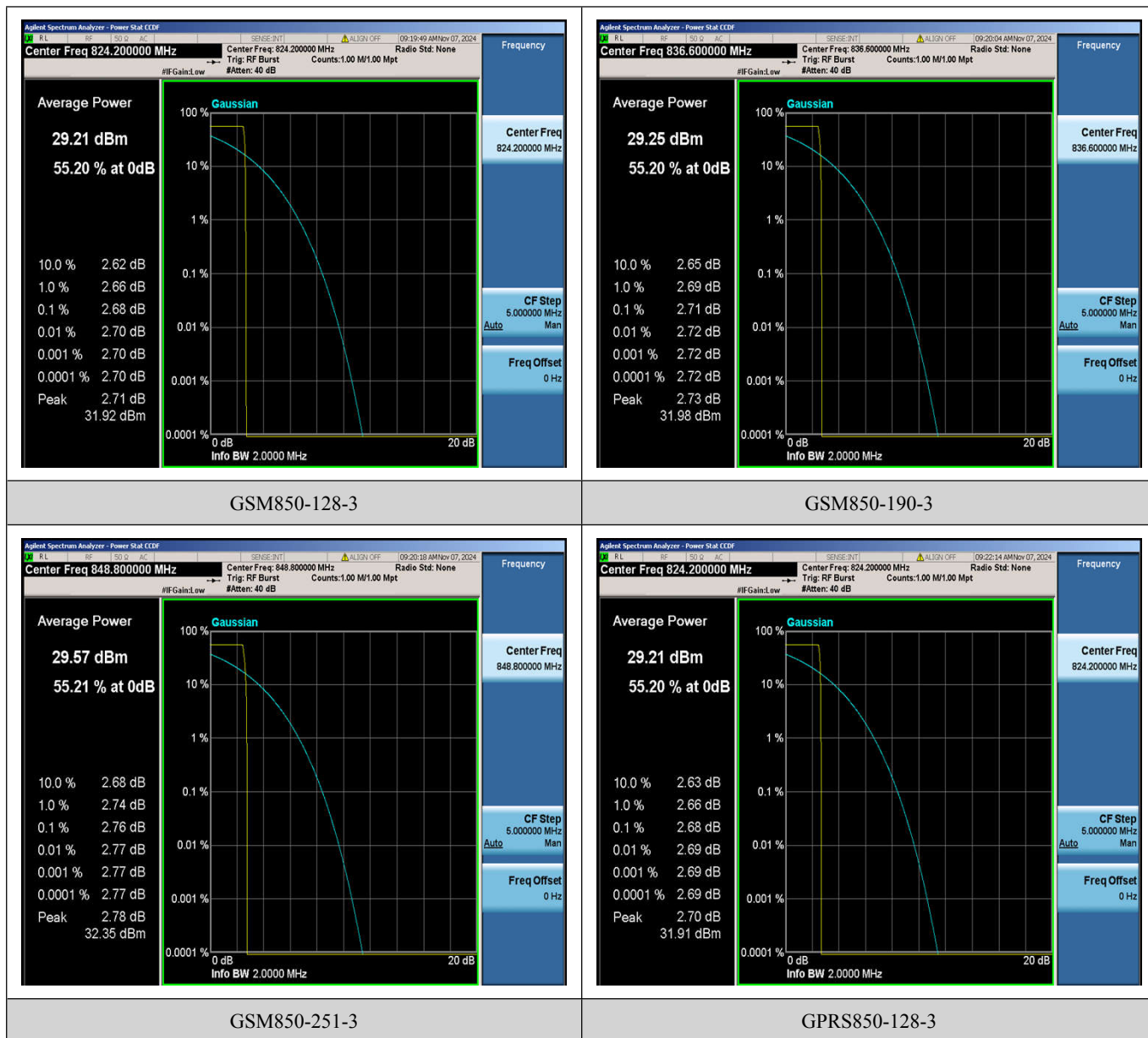
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.68	13	PASS
GSM850	190	2.71	13	PASS
GSM850	251	2.76	13	PASS
GPRS850	128	2.68	13	PASS
GPRS850	190	2.71	13	PASS
GPRS850	251	2.76	13	PASS
EGPRS850	128	5.68	13	PASS
EGPRS850	190	5.63	13	PASS
EGPRS850	251	5.68	13	PASS
GSM1900	512	2.62	13	PASS
GSM1900	661	2.63	13	PASS
GSM1900	810	2.64	13	PASS
GPRS1900	512	2.62	13	PASS
GPRS1900	661	2.63	13	PASS
GPRS1900	810	2.64	13	PASS
EGPRS1900	512	5.65	13	PASS
EGPRS1900	661	5.7	13	PASS
EGPRS1900	810	5.66	13	PASS

WCDMA:

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.95	13	PASS
Band2	9400	2.94	13	PASS
Band2	9538	2.88	13	PASS
Band4	1312	2.91	13	PASS
Band4	1413	2.85	13	PASS
Band4	1513	2.95	13	PASS

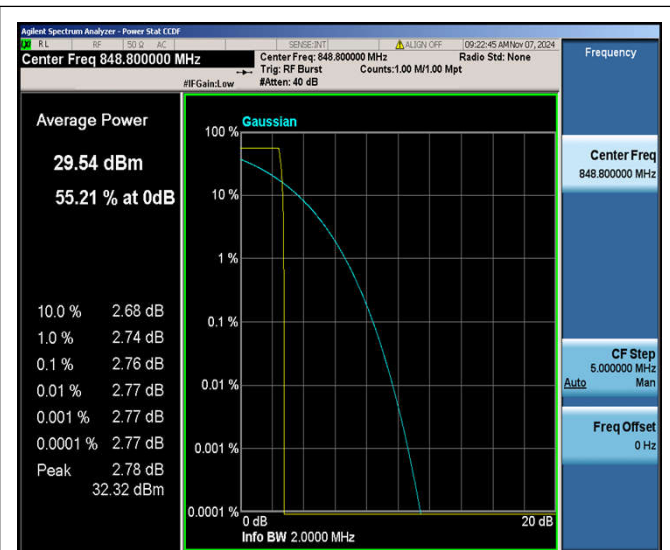
Band5	4132	2.88	13	PASS
Band5	4182	2.92	13	PASS
Band5	4233	2.82	13	PASS

1.2.2 Test Graphs

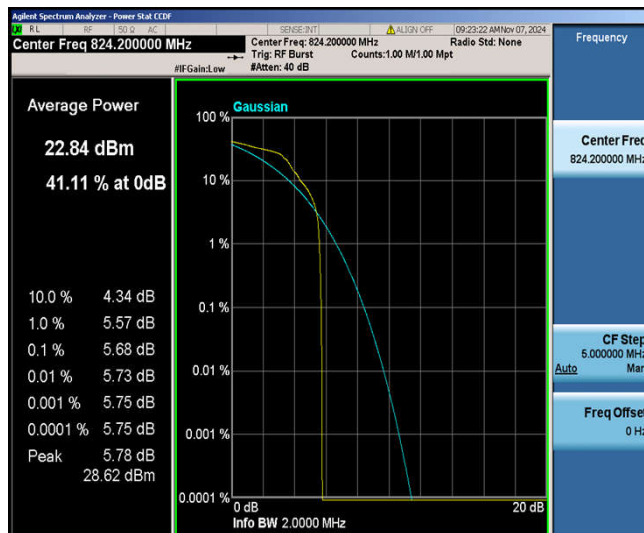




GPRS850-190-3



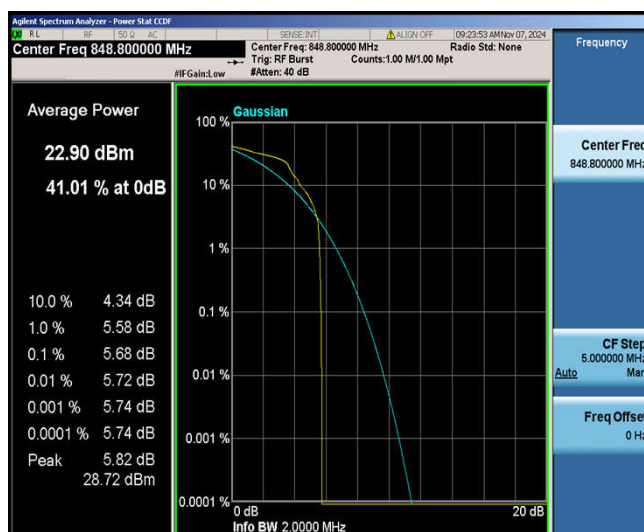
GPRS850-251-3



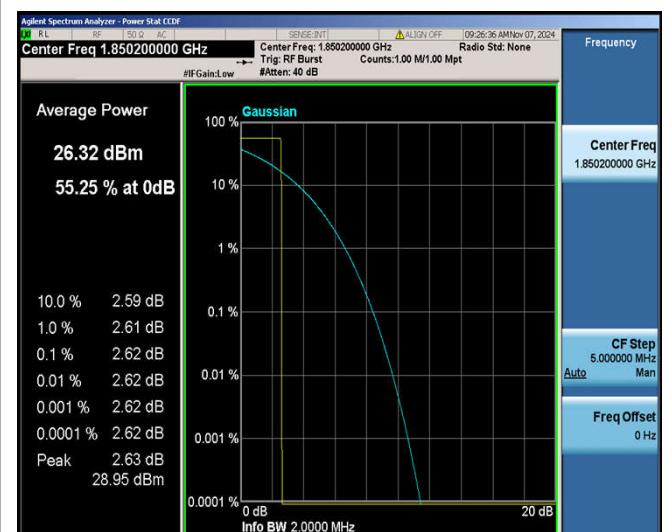
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EGPRS850-190-8



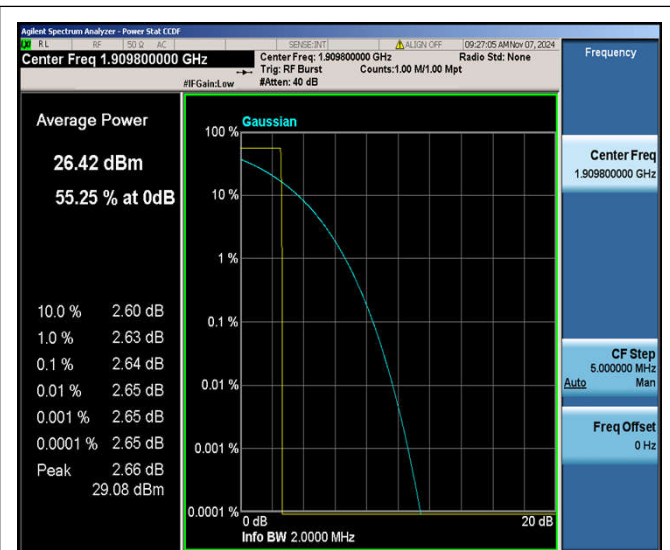
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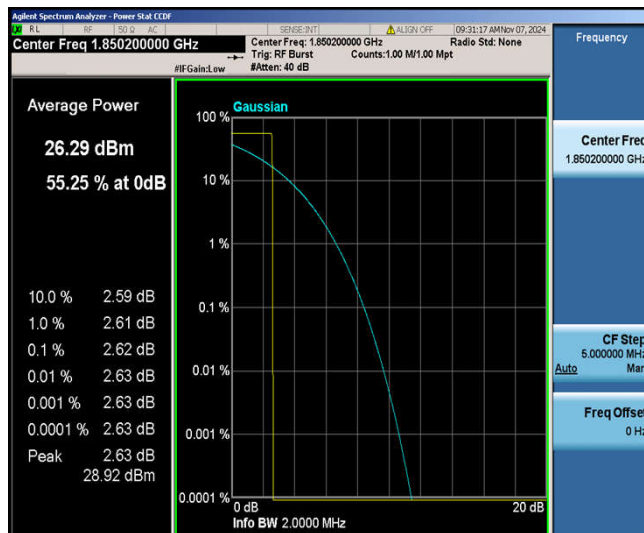
GSM1900-512-0



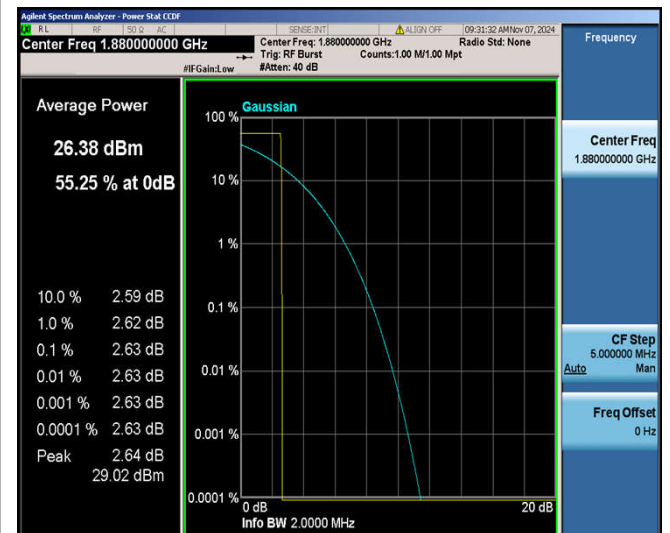
GSM1900-661-0



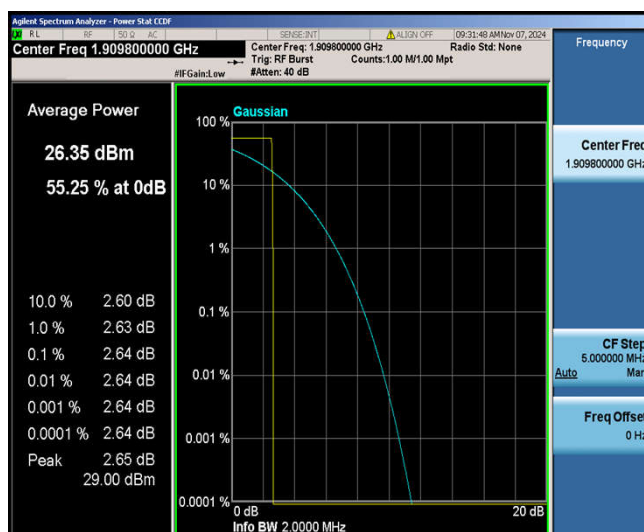
GSM1900-810-0



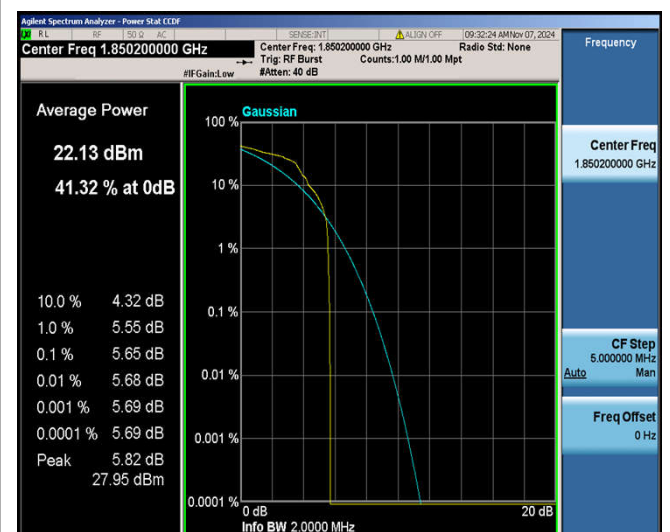
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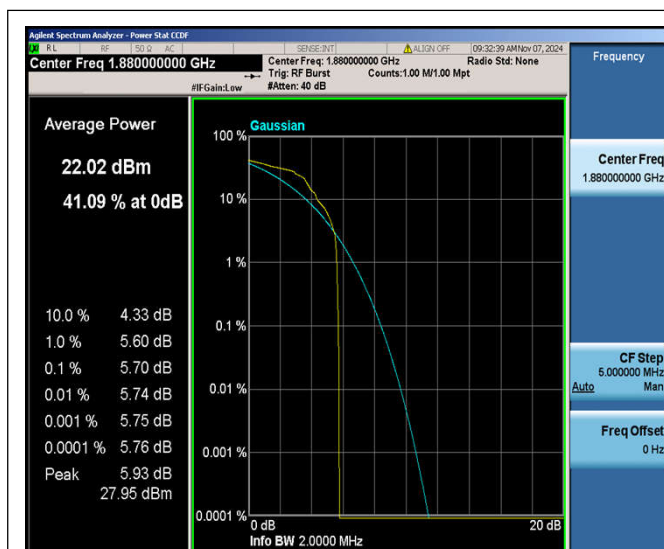
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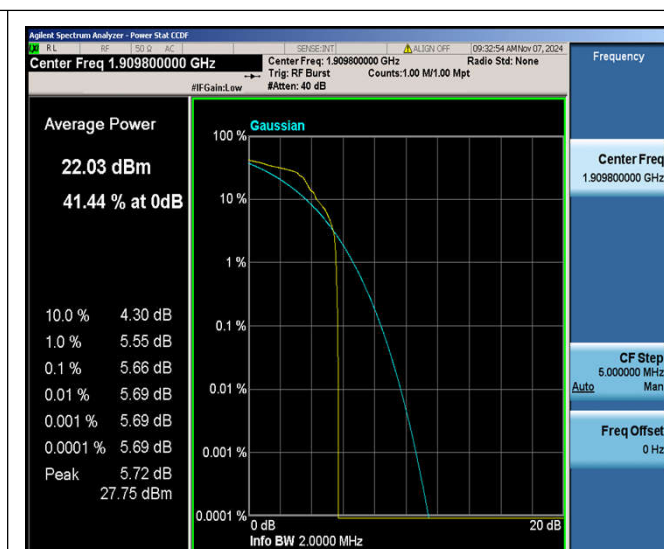
GPRS1900-810-0



EGPRS1900-512-2



EGPRS1900-661-2

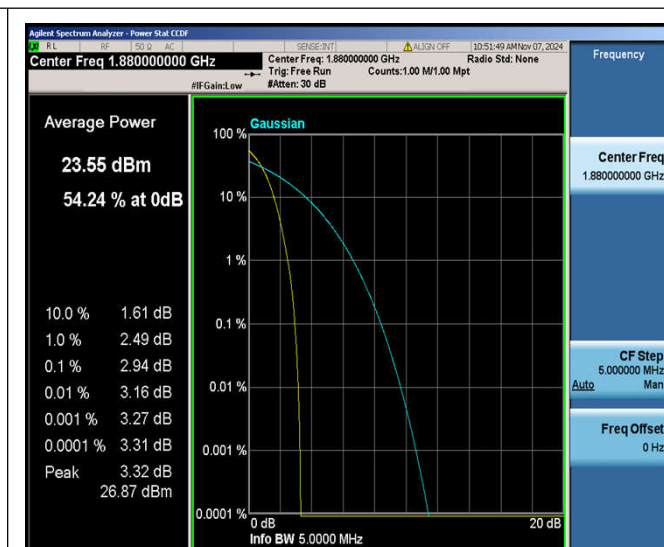


EGPRS1900-810-2

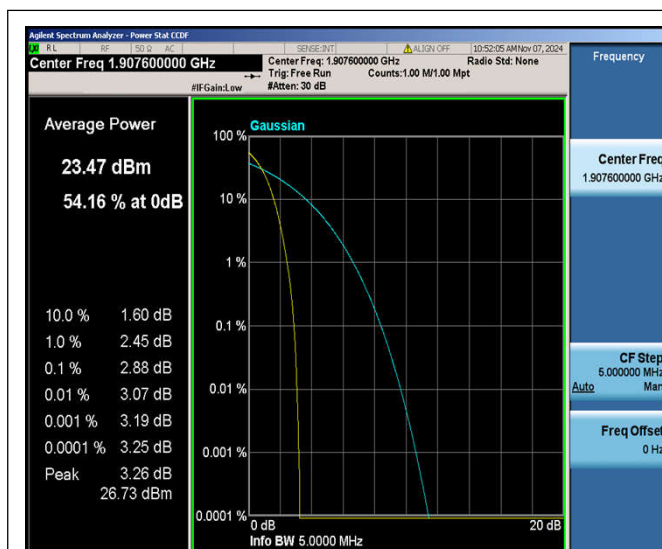
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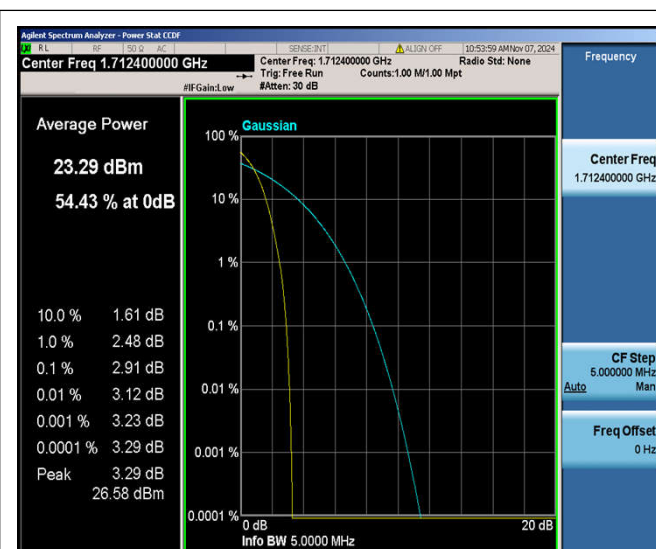
Band2-9262



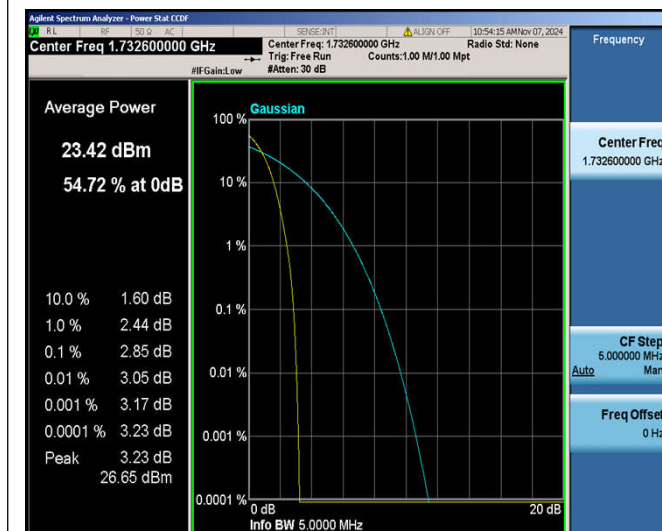
Band2-9400



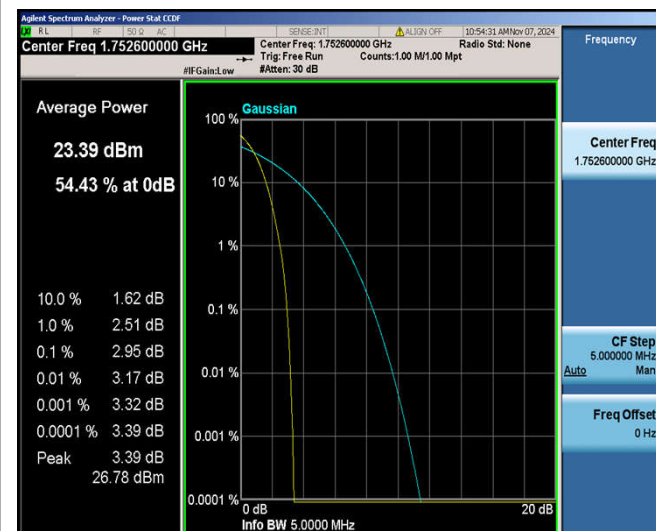
Band2-9538



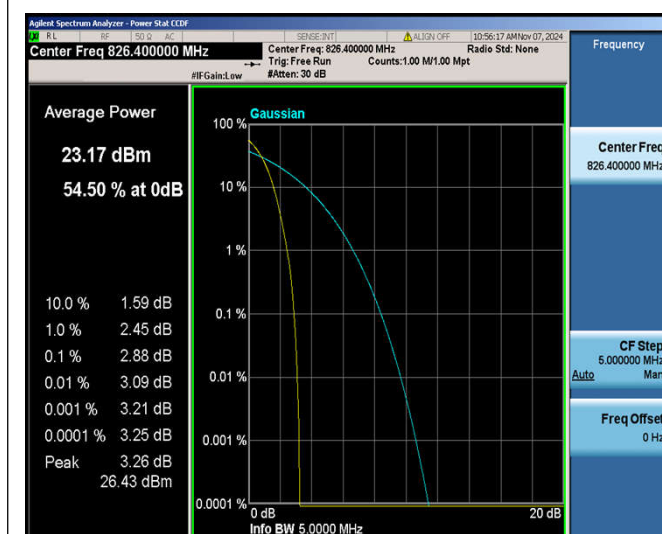
Band4-1312



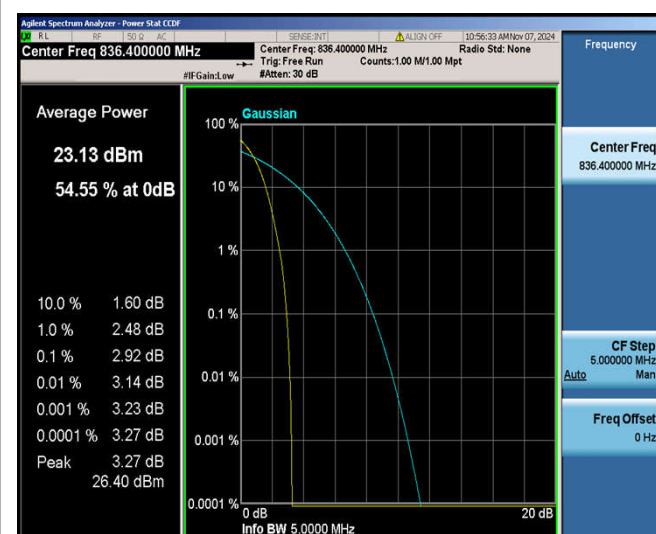
Band4-1413



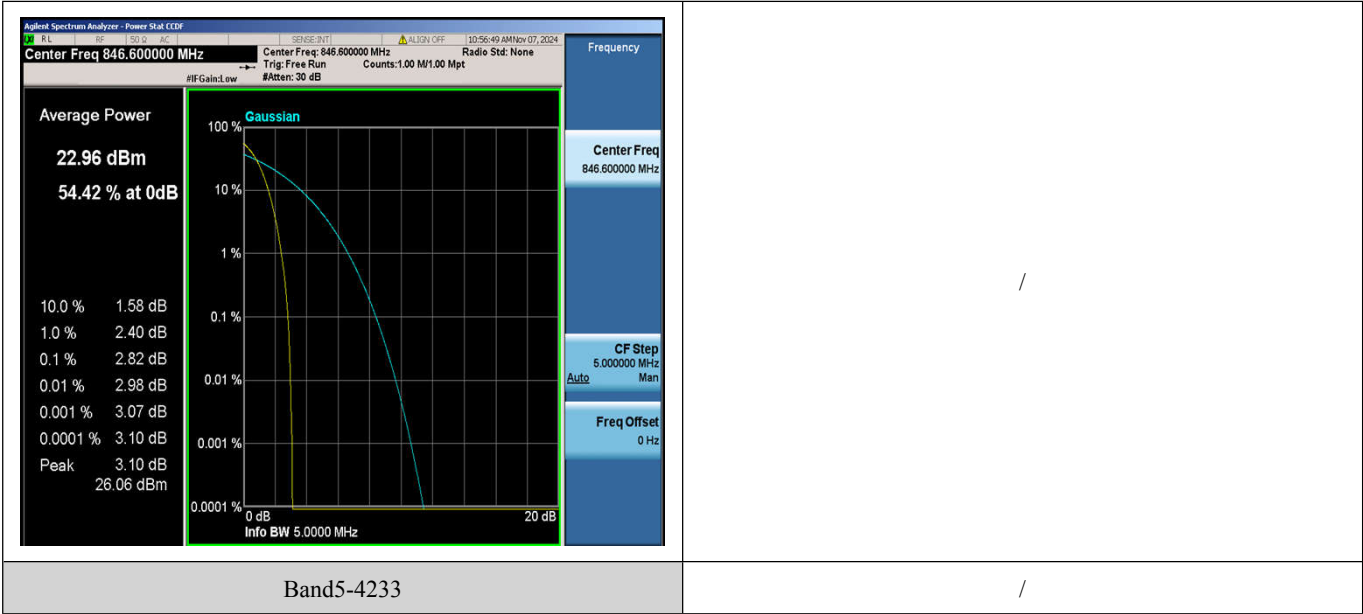
Band4-1513



Band5-4132



Band5-4182



1.3 OCCUPIED BANDWIDTH

1.3.1 Test Result

GSM:

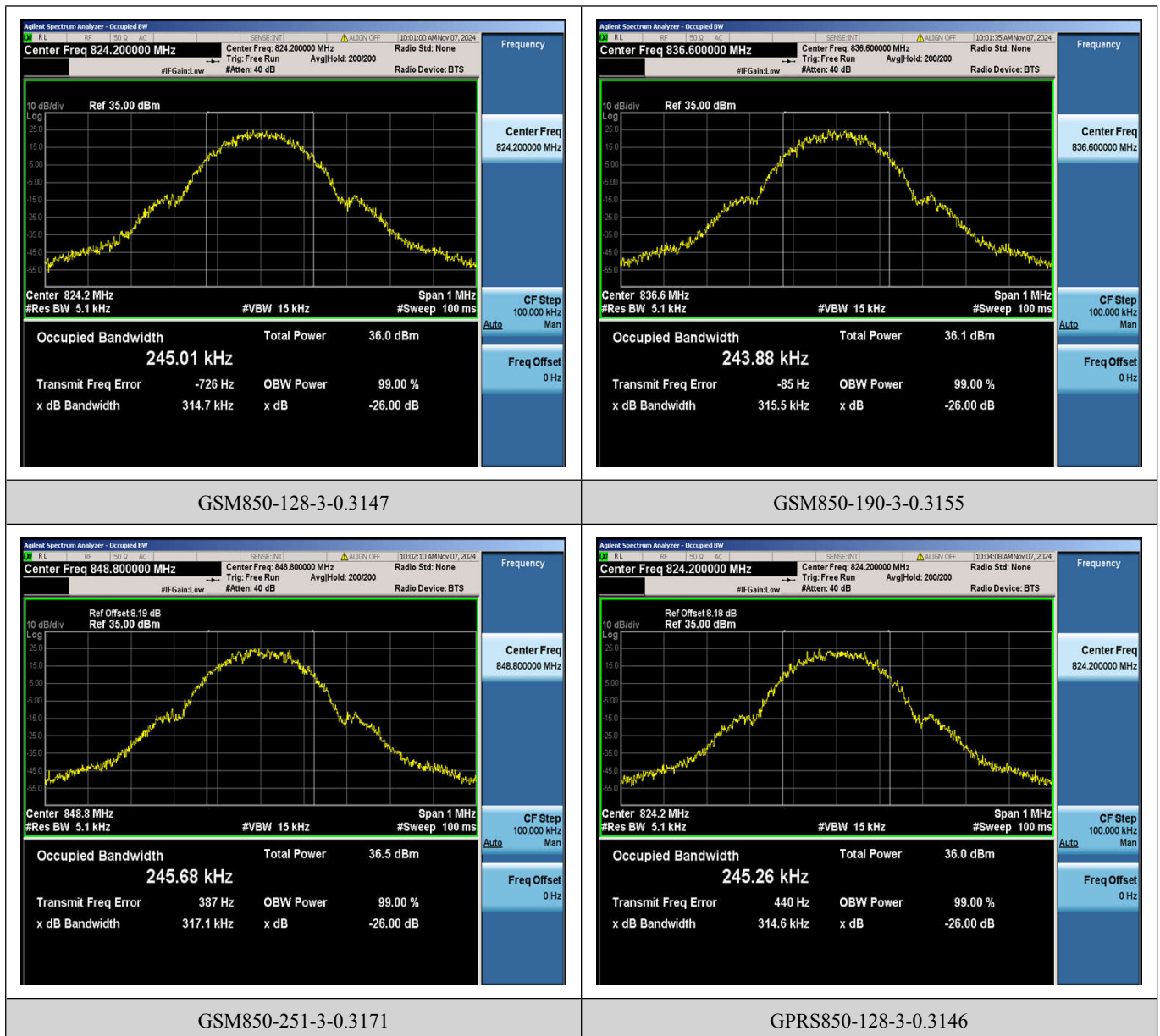
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
GSM850	128	0.24501	0.3147	PASS
GSM850	190	0.24388	0.3155	PASS
GSM850	251	0.24568	0.3171	PASS
GPRS850	128	0.24526	0.3146	PASS
GPRS850	190	0.24385	0.3166	PASS
GPRS850	251	0.24430	0.3135	PASS
EGPRS850	128	0.24373	0.3120	PASS
EGPRS850	190	0.24160	0.3009	PASS
EGPRS850	251	0.24509	0.3105	PASS
GSM1900	512	0.24755	0.3093	PASS
GSM1900	661	0.24739	0.3155	PASS
GSM1900	810	0.24630	0.3158	PASS
GPRS1900	512	0.24412	0.3077	PASS
GPRS1900	661	0.24352	0.3153	PASS
GPRS1900	810	0.24714	0.3159	PASS
EGPRS1900	512	0.24814	0.3040	PASS
EGPRS1900	661	0.24468	0.3097	PASS
EGPRS1900	810	0.24639	0.3048	PASS

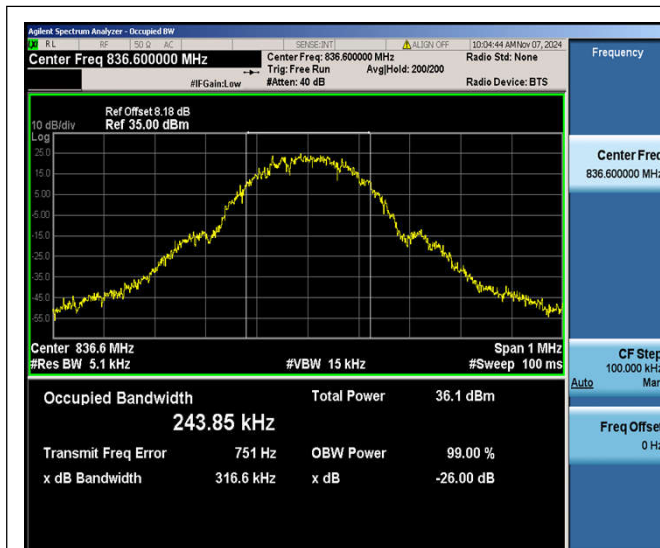
WCDMA:

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	9262	4.1275	4.738	PASS
Band2	9400	4.1328	4.731	PASS
Band2	9538	4.1424	4.723	PASS
Band4	1312	4.1418	4.721	PASS
Band4	1413	4.1349	4.742	PASS

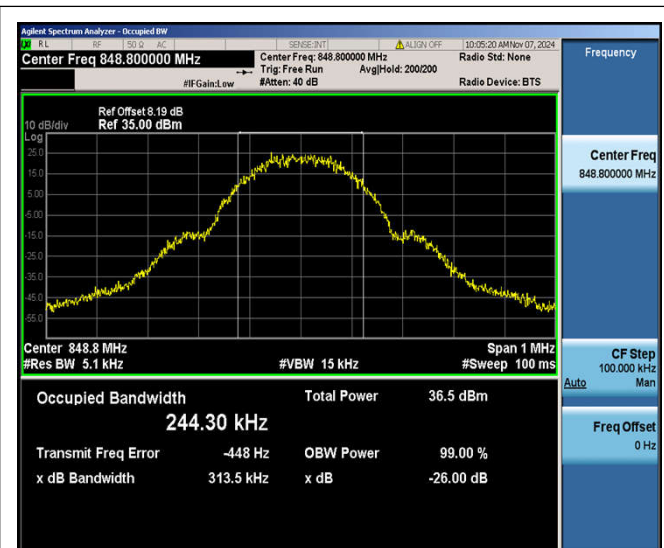
Band4	1513	4.1295	4.725	PASS
Band5	4132	4.1354	4.724	PASS
Band5	4182	4.1301	4.729	PASS
Band5	4233	4.1091	4.719	PASS

1.3.2 Test Graphs

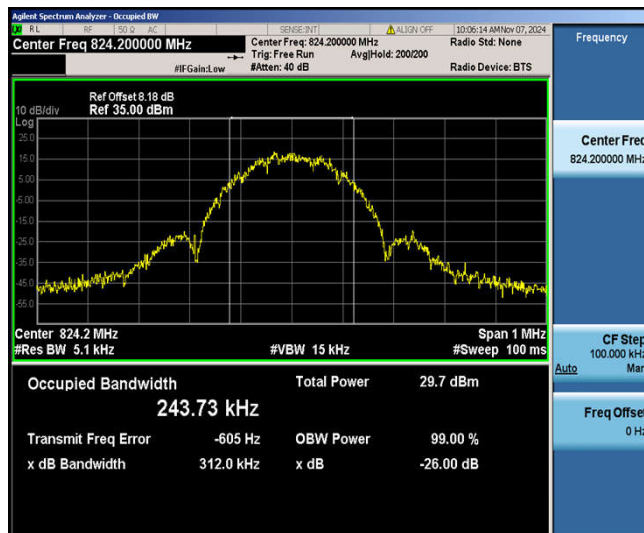




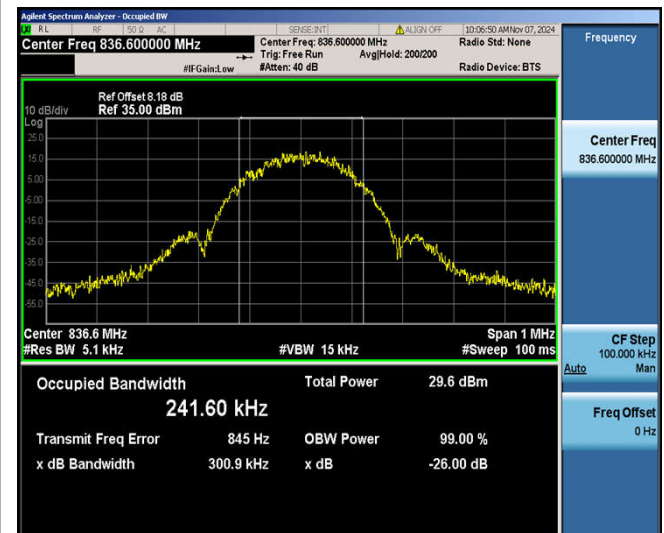
GPRS850-190-3-0.3166



GPRS850-251-3-0.3135



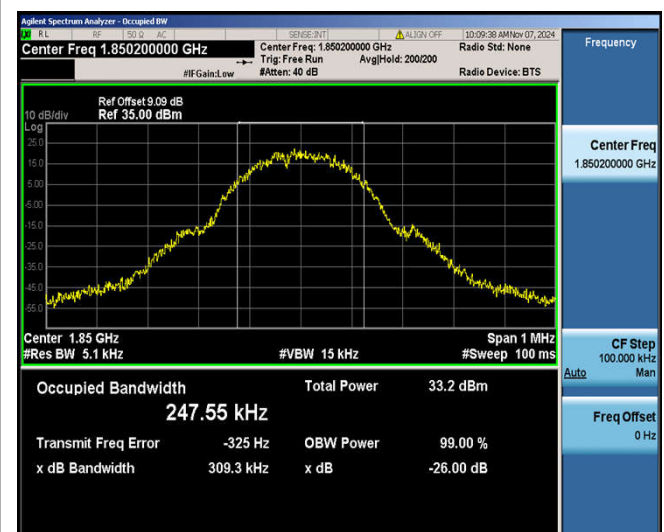
EGPRS850-128-8-0.3120



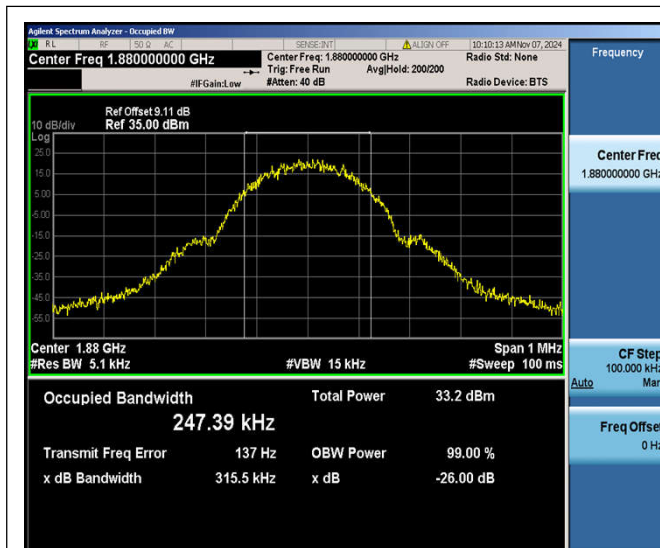
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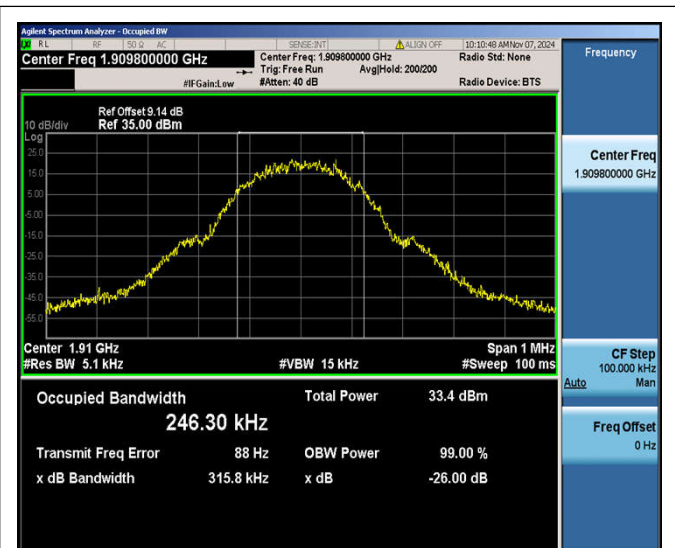
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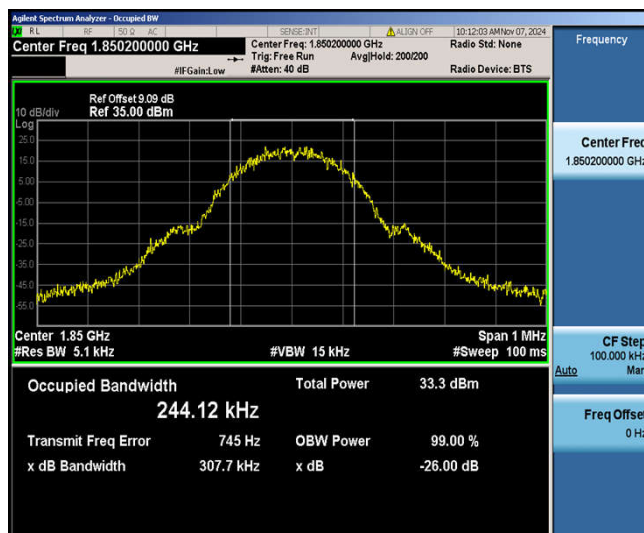
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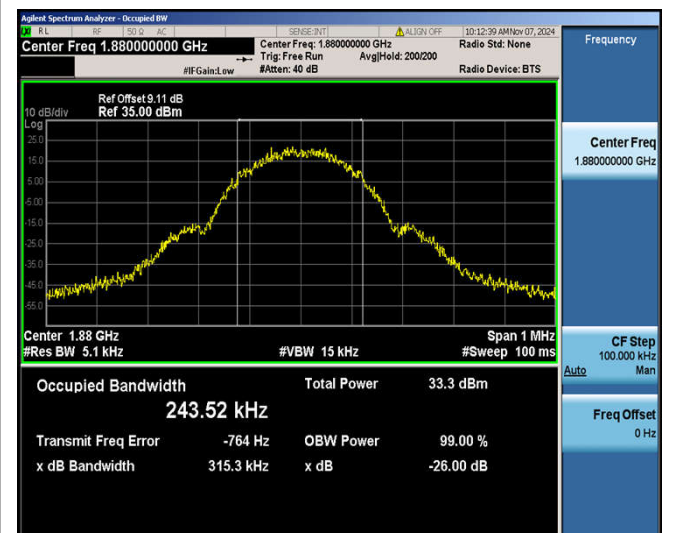
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GSM1900-810-0-0.3158



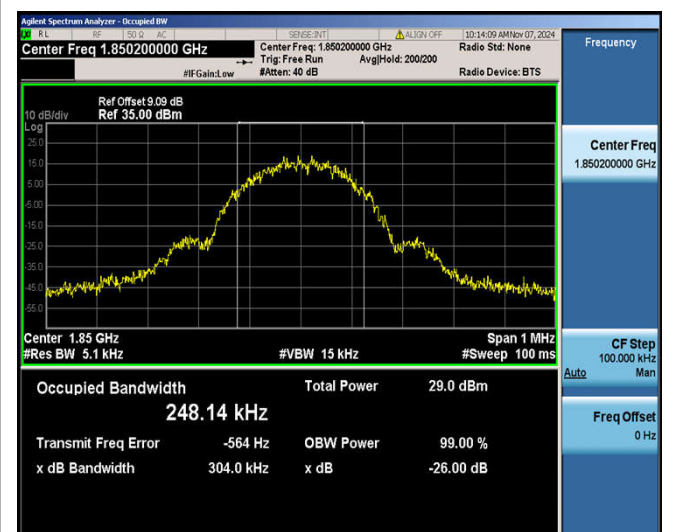
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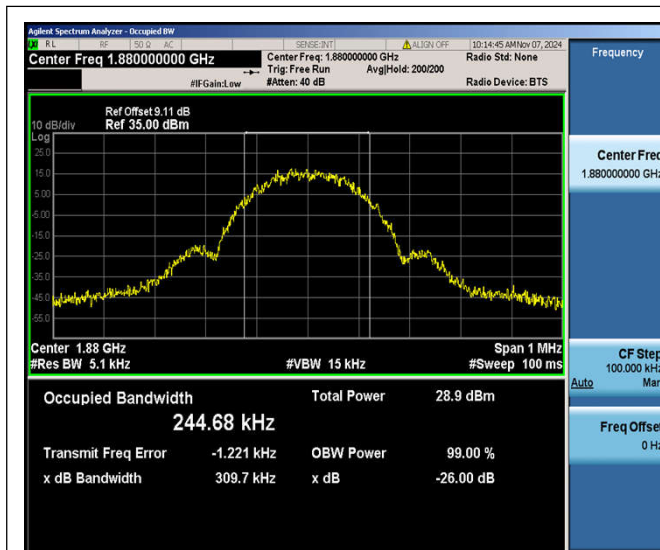
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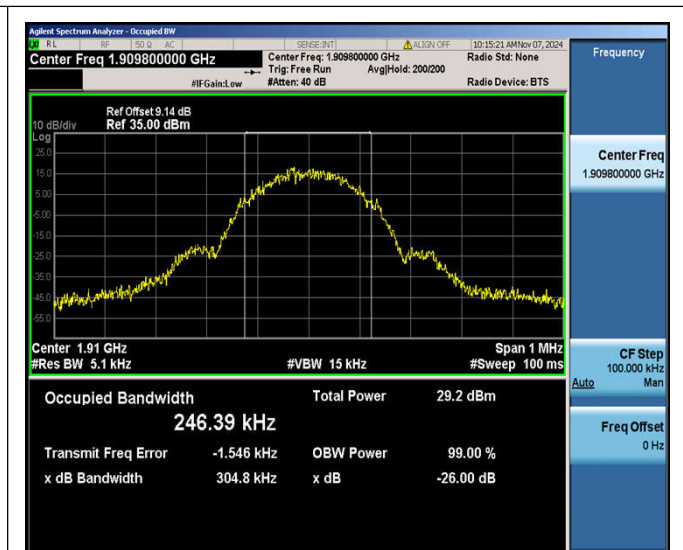
GPRS1900-810-0-0.3159



EGPRS1900-512-2-0.3040

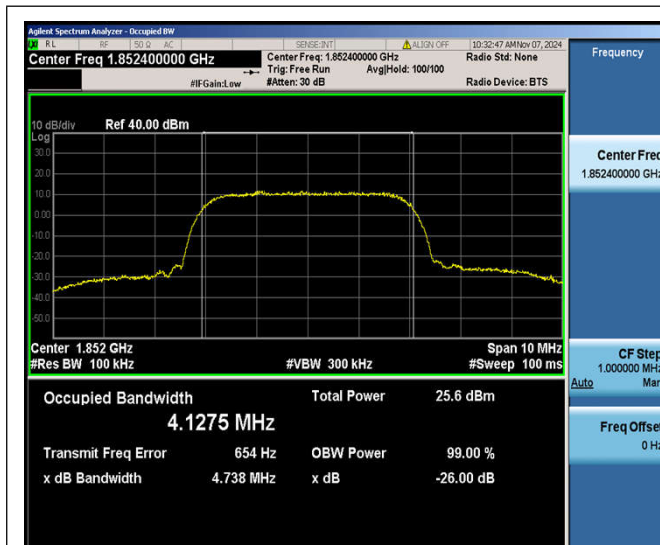


EGPRS1900-661-2-0.3097



EGPRS1900-810-2-0.3048

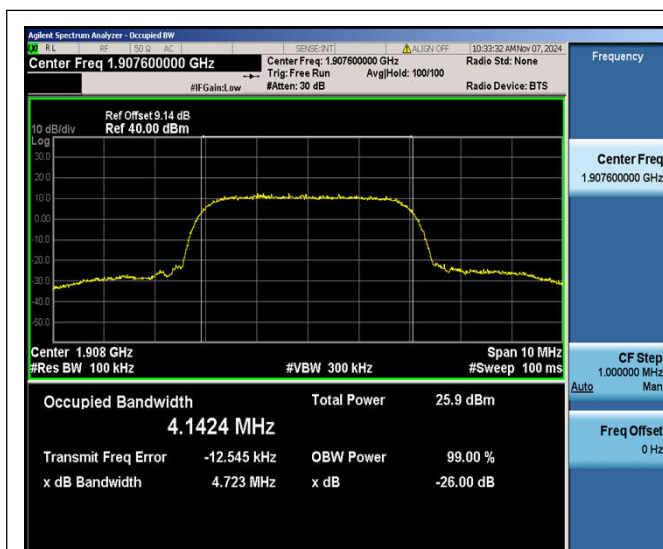
WCDMA:



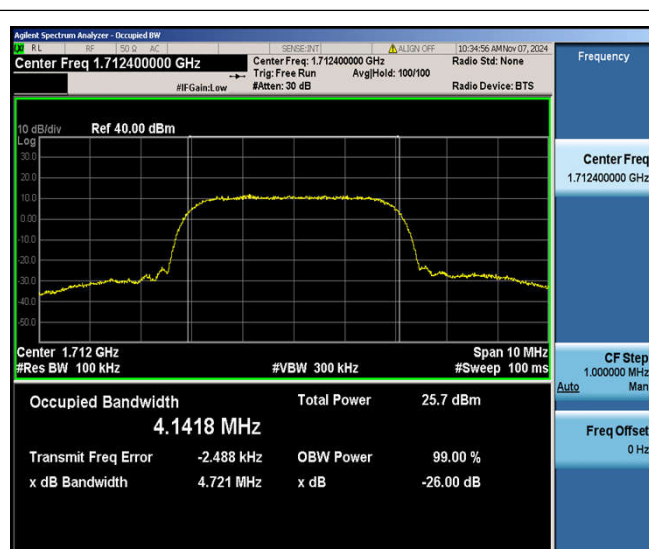
Band2-9262-4.738



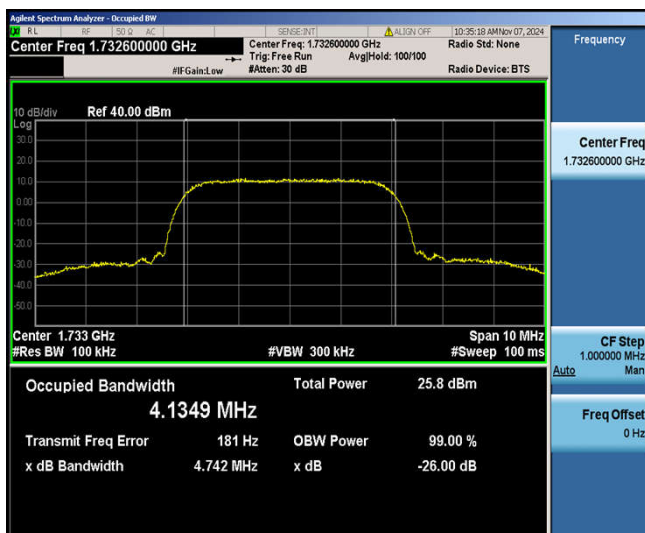
Band2-9400-4.731



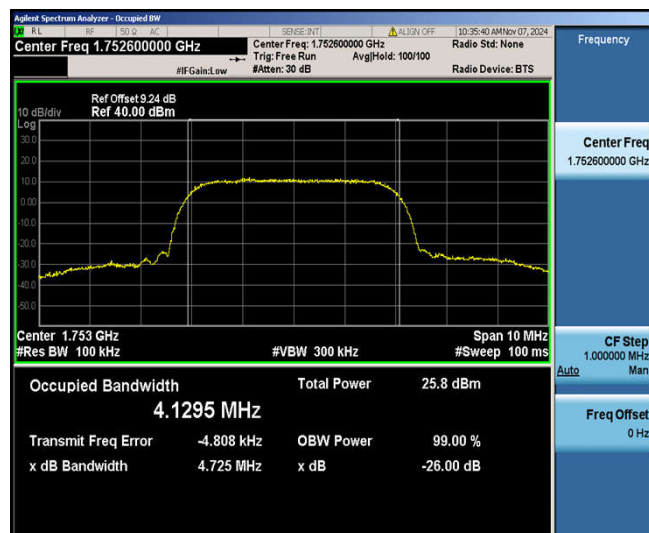
Band2-9538-4.723



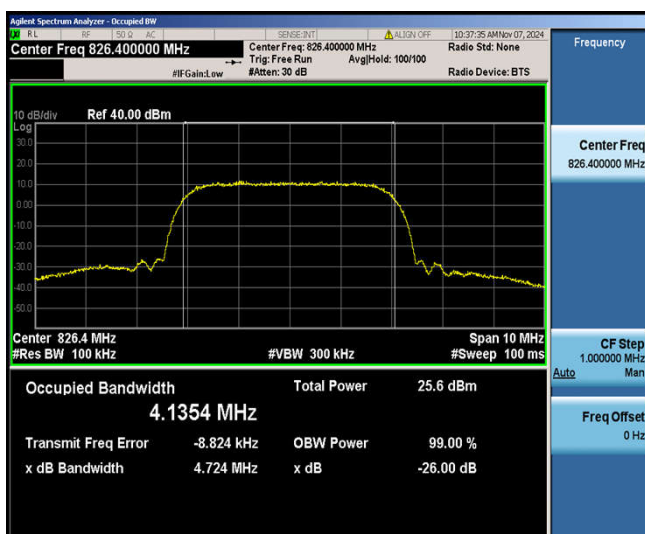
Band4-1312-4.721



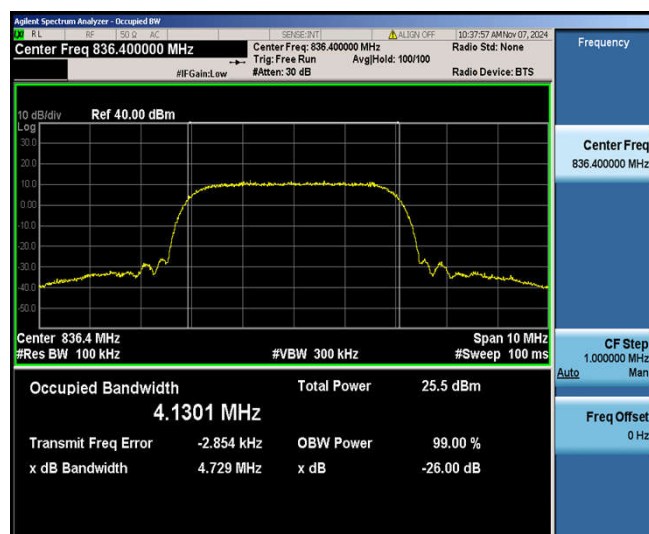
Band4-1413-4.742



Band4-1513-4.725



Band5-4132-4.724



Band5-4182-4.729



1.4 Band Edge

1.4.1 Test Result

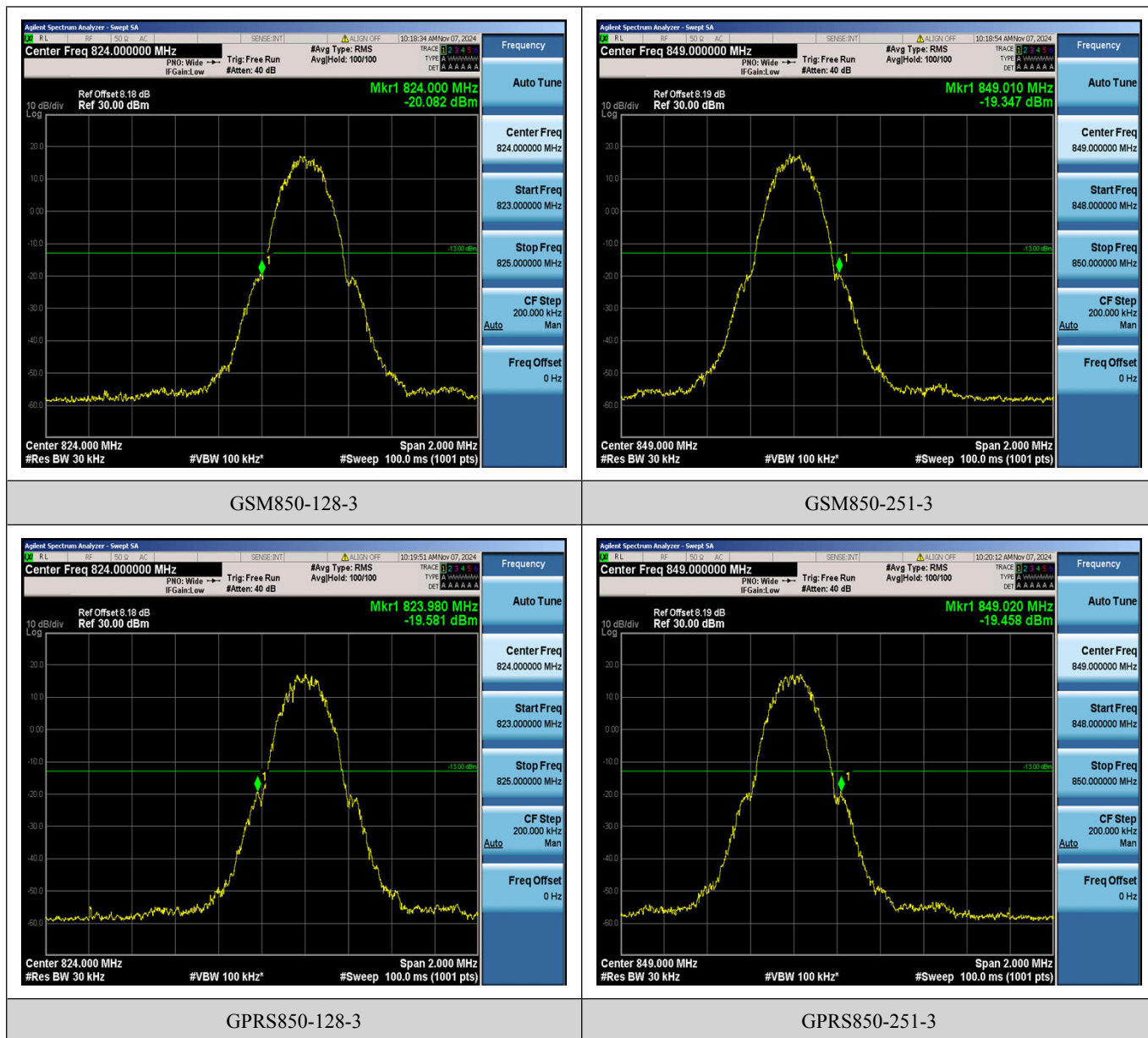
GSM:

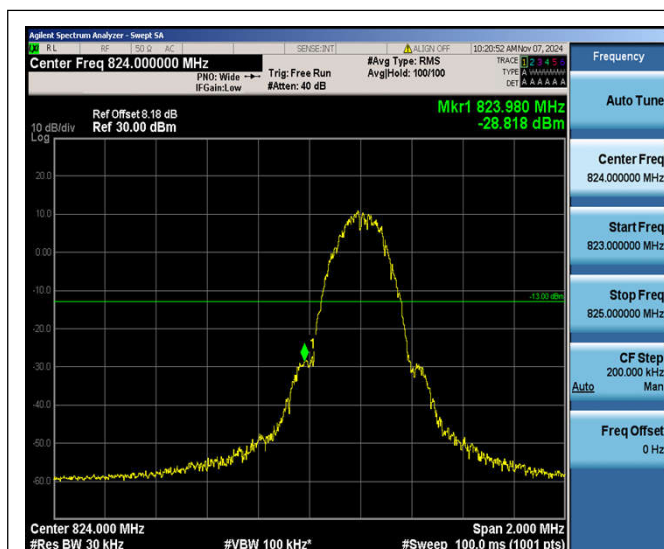
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-19.21	-13	PASS
GSM850	251	849.01	-19.35	-13	PASS
GPRS850	128	823.98	-19.52	-13	PASS
GPRS850	251	849.02	-19.05	-13	PASS
EGPRS850	128	823.98	-28.04	-13	PASS
EGPRS850	251	849.02	-28.70	-13	PASS
GSM1900	512	1850.00	-22.29	-13	PASS
GSM1900	810	1910.02	-22.74	-13	PASS
GPRS1900	512	1850.00	-21.71	-13	PASS
GPRS1900	810	1910.01	-22.34	-13	PASS
EGPRS1900	512	1849.98	-27.88	-13	PASS
EGPRS1900	810	1910.01	-28.95	-13	PASS

WCDMA:

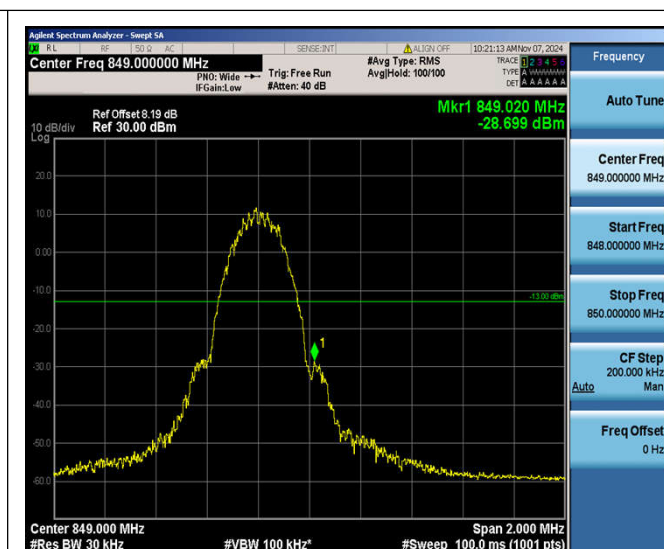
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-18.34	-13	PASS
Band2	9538	1910.01	-18.76	-13	PASS
Band4	1312	1710.00	-19.15	-13	PASS
Band4	1513	1755.02	-19.01	-13	PASS
Band5	4132	824.00	-18.65	-13	PASS
Band5	4233	849.00	-20.10	-13	PASS

1.4.2 Test Graphs

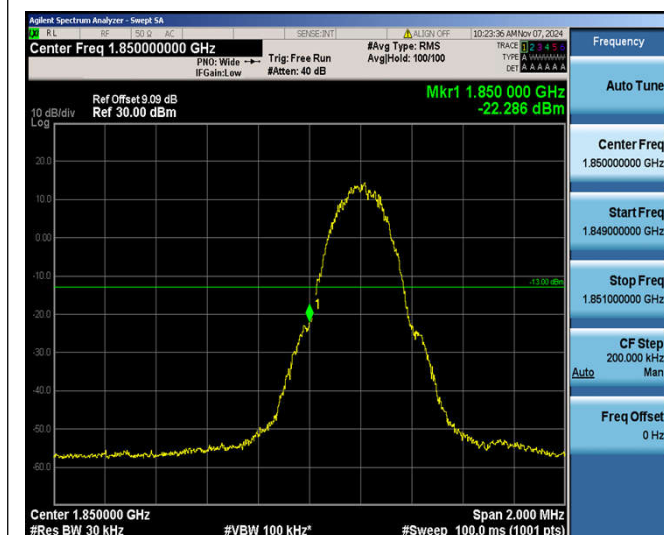




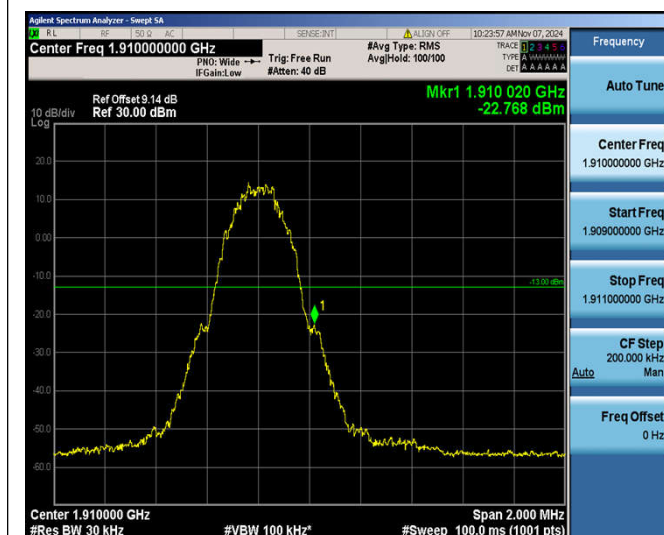
EGPRS850-128-8



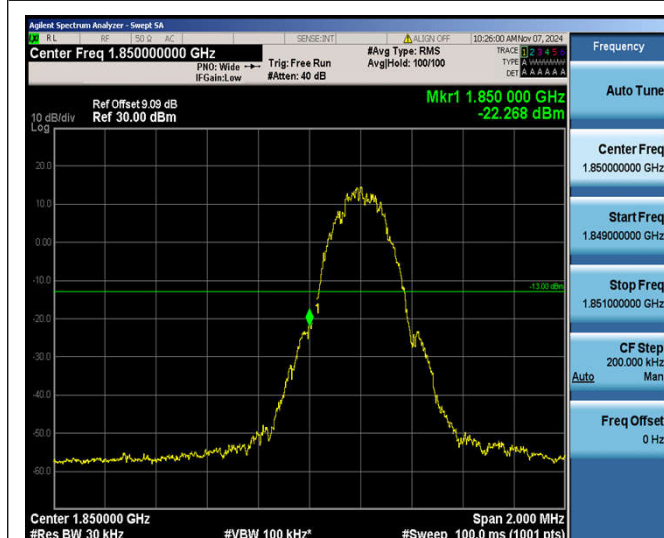
EGPRS850-251-8



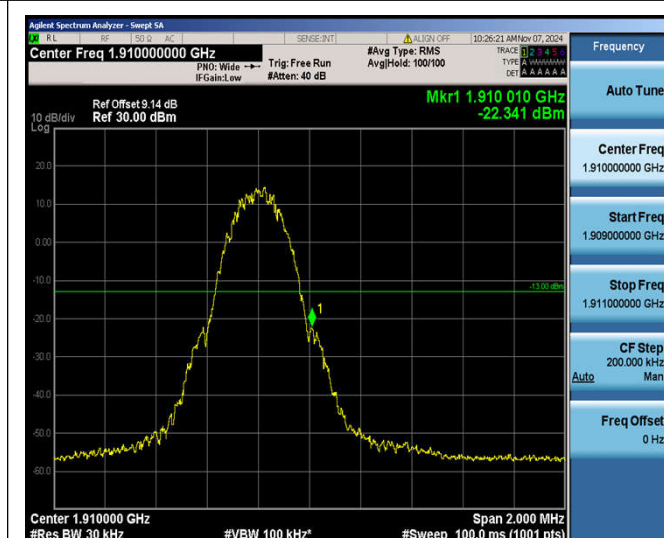
GSM1900-512-0



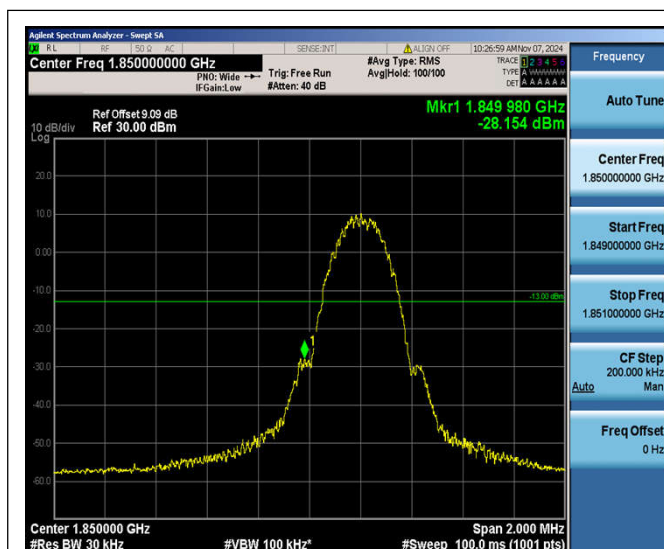
GSM1900-810-0



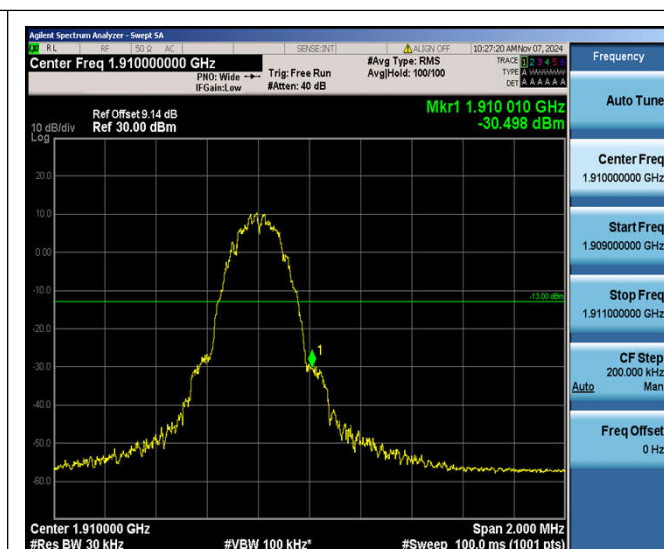
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GPRS1900-810-0



EGPRS1900-512-2



EGPRS1900-810-2

WCDMA:



Band2-9262



Band2-9538