



# Appendix for GPRS&EGPRS FCC ID: 2AC88-GLMU19A02





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## Appendix A: Effective (Isotropic) Radiated Power Output Data

#### **Test Result**

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	30.86	38.5	PASS
GPRS850	128	5	2	29.80	38.5	PASS
GPRS850	128	5	3	27.92	38.5	PASS
GPRS850	128	5	4	26.07	38.5	PASS
GPRS850	190	5	1	30.89	38.5	PASS
GPRS850	190	5	2	29.83	38.5	PASS
GPRS850	190	5	3	27.91	38.5	PASS
GPRS850	190	5	4	26.87	38.5	PASS
GPRS850	251	5	1	30.99	38.5	PASS
GPRS850	251	5	2	29.65	38.5	PASS
GPRS850	251	5	3	28.01	38.5	PASS
GPRS850	251	5	4	26.68	38.5	PASS
GPRS1900	512	0	1	29.11	33	PASS
GPRS1900	512	0	2	28.07	33	PASS
GPRS1900	512	0	3	26.54	33	PASS
GPRS1900	512	0	4	25.21	33	PASS
GPRS1900	661	0	1	29.27	33	PASS
GPRS1900	661	0	2	28.20	33	PASS
GPRS1900	661	0	3	26.19	33	PASS
GPRS1900	661	0	4	25.80	33	PASS
GPRS1900	810	0	1	29.26	33	PASS
GPRS1900	810	0	2	28.23	33	PASS
GPRS1900	810	0	3	26.24	33	PASS
GPRS1900	810	0	4	25.66	33	PASS





Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	8	1	29.51	38.5	PASS
EGPRS850	128	8	2	29.32	38.5	PASS
EGPRS850	128	8	3	27.45	38.5	PASS
EGPRS850	128	8	4	25.37	38.5	PASS
EGPRS850	190	8	1	29.33	38.5	PASS
EGPRS850	190	8	2	29.22	38.5	PASS
EGPRS850	190	8	3	27.43	38.5	PASS
EGPRS850	190	8	4	25.28	38.5	PASS
EGPRS850	251	8	1	29.28	38.5	PASS
EGPRS850	251	8	2	29.20	38.5	PASS
EGPRS850	251	8	3	27.36	38.5	PASS
EGPRS850	251	8	4	25.21	38.5	PASS
EGPRS1900	512	2	1	29.04	33	PASS
EGPRS1900	512	2	2	27.56	33	PASS
EGPRS1900	512	2	3	25.69	33	PASS
EGPRS1900	512	2	4	23.75	33	PASS
EGPRS1900	661	2	1	28.80	33	PASS
EGPRS1900	661	2	2	27.24	33	PASS
EGPRS1900	661	2	3	25.39	33	PASS
EGPRS1900	661	2	4	23.50	33	PASS
EGPRS1900	810	2	1	28.82	33	PASS
EGPRS1900	810	2	2	27.34	33	PASS
EGPRS1900	810	2	3	25.43	33	PASS
EGPRS1900	810	2	4	23.39	33	PASS





## Appendix B: Peak-to-Average Ratio

#### **Test Result**

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
GPRS850	128	7.68	13	PASS
GPRS850	190	8.32	13	PASS
GPRS850	251	7.71	13	PASS
EGPRS850	128	8.43	13	PASS
EGPRS850	190	12.90	13	PASS
EGPRS850	251	10.58	13	PASS
GPRS1900	512	8.35	13	PASS
GPRS1900	661	10.55	13	PASS
GPRS1900	810	7.68	13	PASS
EGPRS1900	512	8.35	13	PASS
EGPRS1900	661	10.55	13	PASS
EGPRS1900	810	10.26	13	PASS

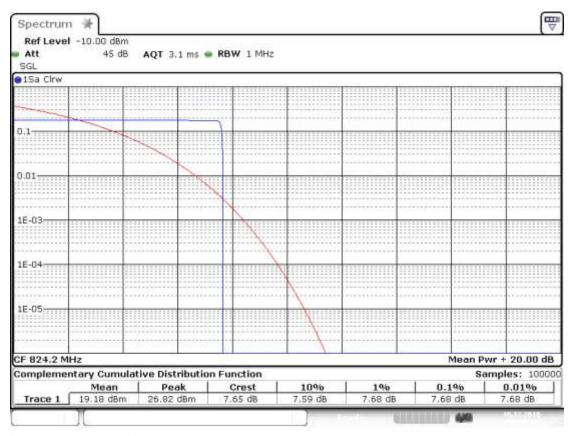
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**Test Graphs** 

Test Case: GPRS (Spectrum)Peak-to-Average Ratio			
Band: 850 Channel: 128 PCL: 5			
Voltage: VN	Temperature: TN	Value:CCDF:7.68	

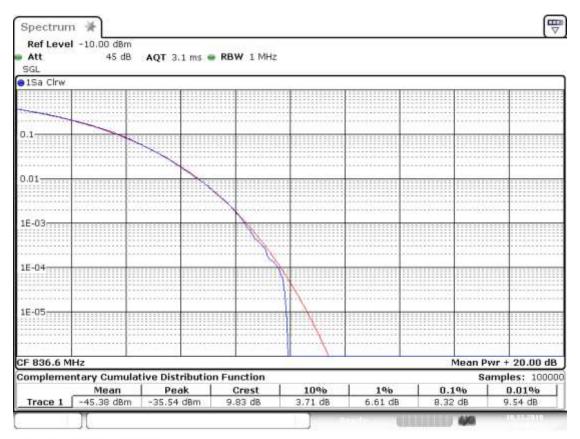


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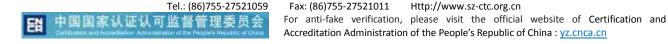




Test Case: GPRS (Spectrum)Peak-to-Average Ratio			
Band: 850 Channel: 190 PCL: 5			
Voltage: VN	Temperature: TN	Value:CCDF:8.32	



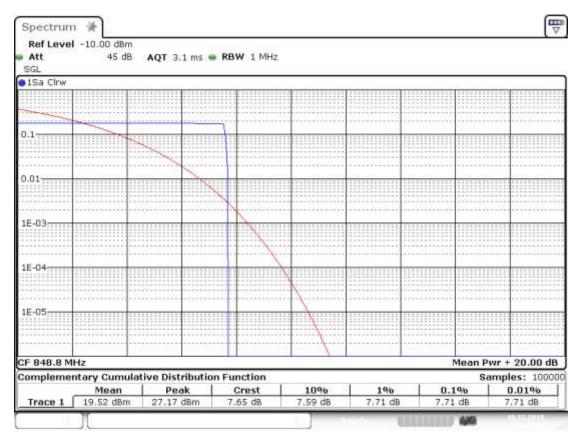
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Test Case: GPRS (Spectrum)Peak-to-Average Ratio Band: 850 Channel: 251 PCL: 5 Voltage: VN Temperature: TN Value:CCDF:7.71



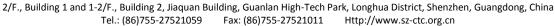
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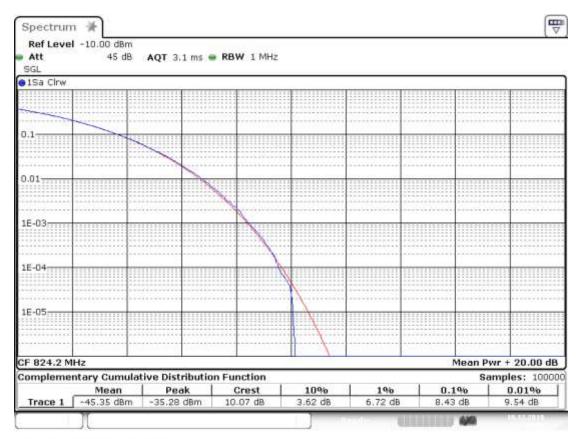








Test Case: EGPRS (Spectrum)Peak-to-Average Ratio			
Band: 850 Channel: 128 PCL: 8			
Voltage: VN	Temperature: TN	Value:CCDF:8.43	



Date: 10.DEC.2019 11:05:08





Test Case: EGPRS (Spectrum)Peak-to-Average Ratio			
Band: 850 Channel: 190 PCL: 8			
Voltage: VN	Temperature: TN	Value:CCDF:12.90	

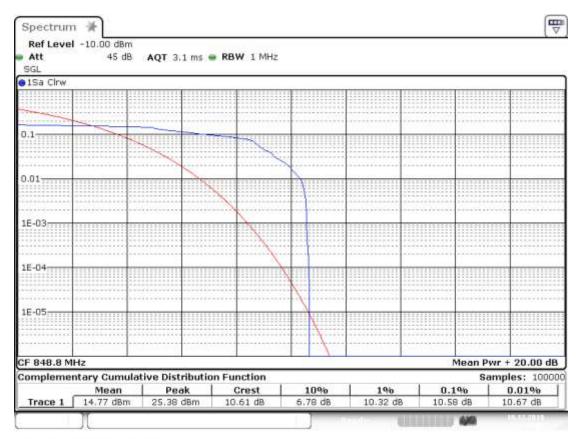


Date: 10.DEC.2019 11:05:36





Test Case: EGPRS (Spectrum)Peak-to-Average Ratio			
Band: 850 Channel: 251 PCL: 8			
Voltage: VN	Temperature: TN	Value:CCDF:10.58	



Date: 10.DEC.2019 11:06:05





Test Case: GPRS (Spectrum)Peak-to-Average Ratio			
Band: 1900 Channel: 512 PCL: 0			
Voltage: VN	Temperature: TN	Value:CCDF:8.35	



Date: 10.DEC.2019 14:06:48

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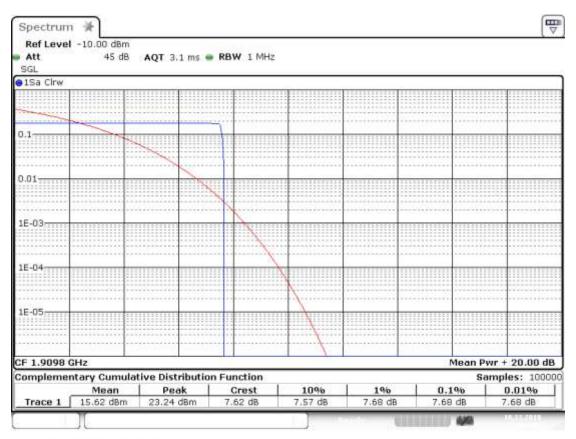
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Test Case: GPRS (Spectrum)Peak-to-Average Ratio			
Band: 1900 Channel: 810 PCL: 0			
Voltage: VN	Temperature: TN	Value:CCDF:7.68	

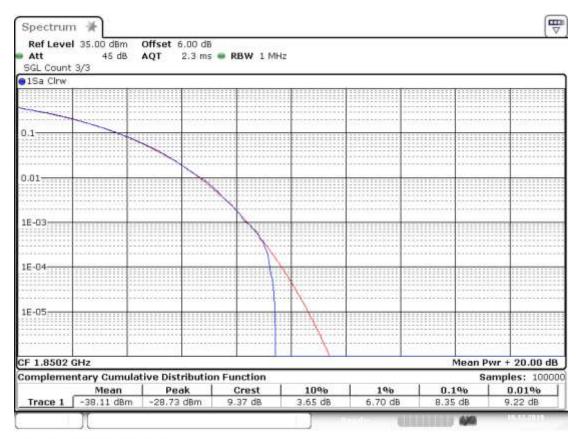


Date: 10.DEC.2019 11:38:57





Test Case: EGPRS (Spectrum)Peak-to-Average Ratio			
Band: 1900 Channel: 512 PCL: 2			
Voltage: VN	Temperature: TN	Value:CCDF:8.35	

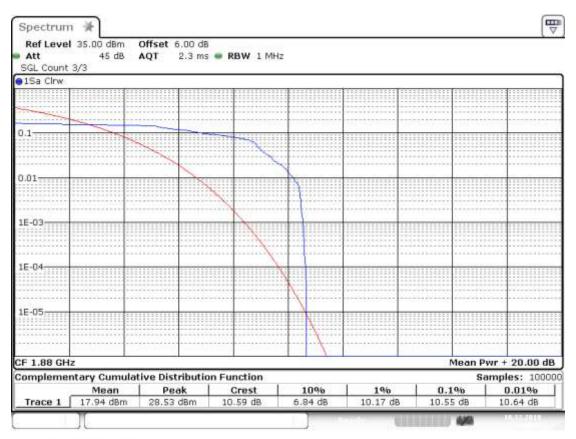


Date: 10.DEC.2019 14:06:48





Test Case: EGPRS (Spectrum)Peak-to-Average Ratio		
Band: 1900	Channel: 661	PCL: 2
Voltage: VN	Temperature: TN	Value:CCDF:10.55

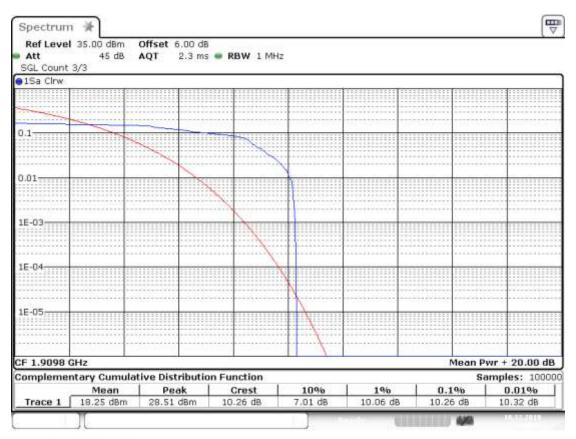


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Test Case: EGPRS (Spectrum)Peak-to-Average Ratio		
Band: 1900	Channel: 810	PCL: 2
Voltage: VN	Temperature: TN	Value:CCDF:10.26



Date: 10.DEC.2019 14:07:45





## Appendix C: 26dB Bandwidth and Occupied Bandwidth

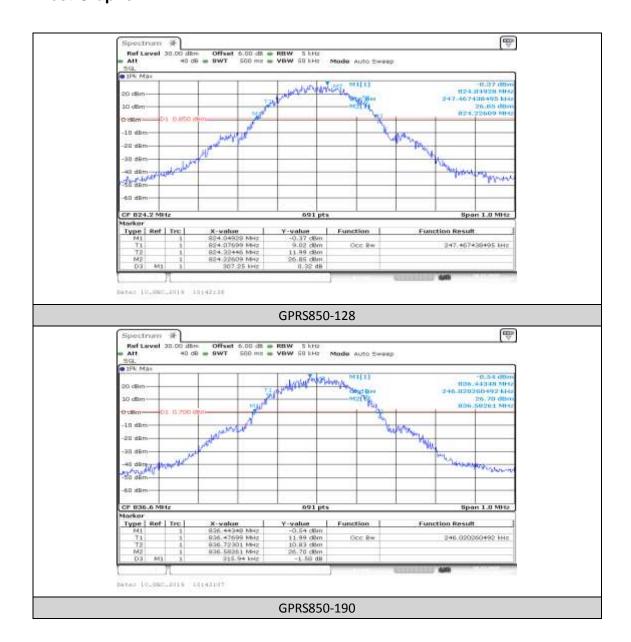
#### **Test Result**

Band	Channel	Occupied Bandwidth	26dB Bandwidth	Limit(kHz)	Verdict
Darid	Orialist	(kHz)	(kHz)	LIIIII(KI IZ)	verdict
GPRS850	128	247.5	307		PASS
GPRS850	190	246.0	316		PASS
GPRS850	251	246.0	303		PASS
EGPRS850	128	247.5	268		PASS
EGPRS850	190	248.9	293		PASS
EGPRS850	251	246.0	300		PASS
GPRS1900	512	244.6	306		PASS
GPRS1900	661	246.0	312		PASS
GPRS1900	810	243.1	300		PASS
EGPRS1900	512	248.9	307		PASS
EGPRS1900	661	248.9	309		PASS
EGPRS1900	810	251.8	306		PASS





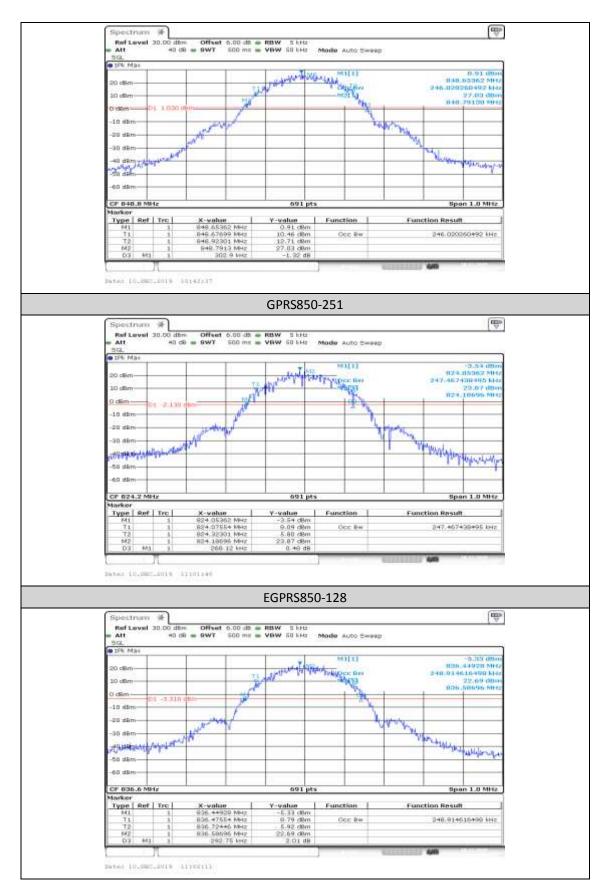
#### **Test Graphs**



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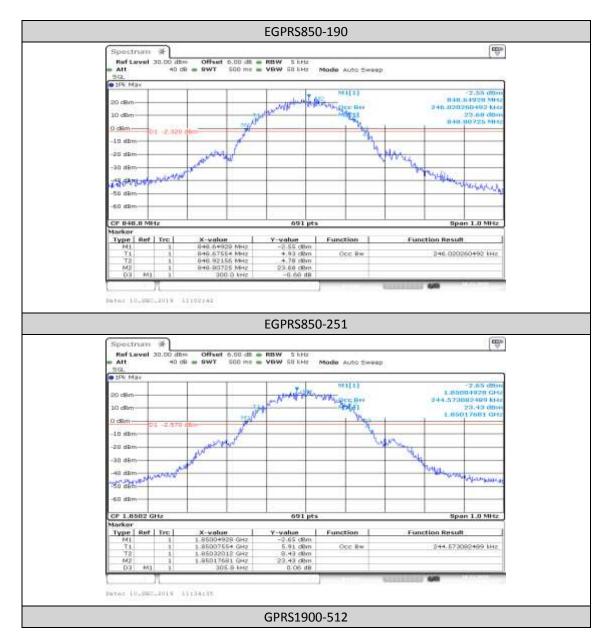
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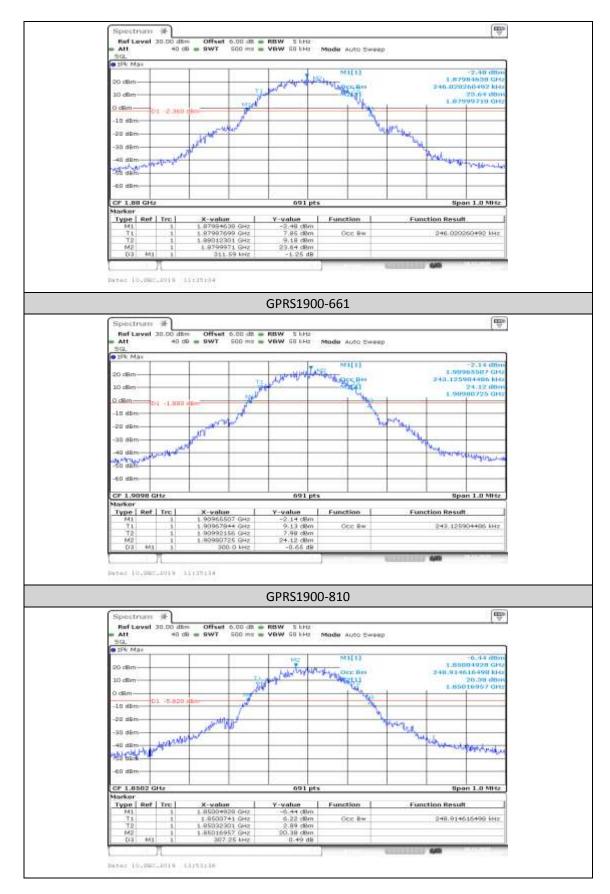






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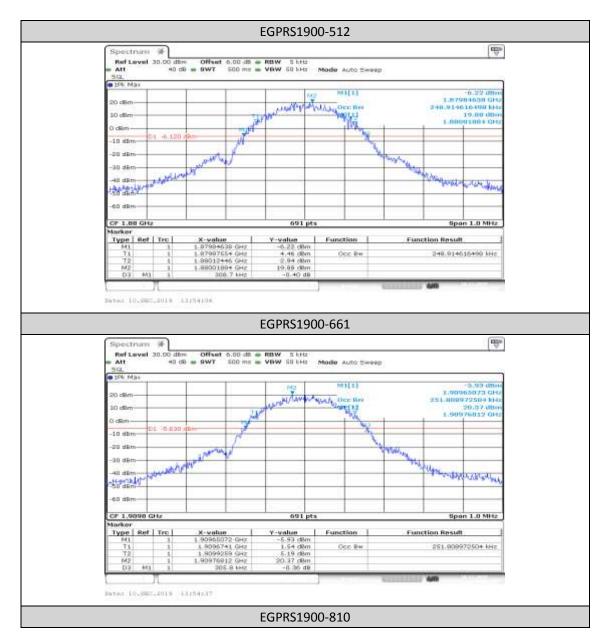
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## **Appendix D: Band Edge**

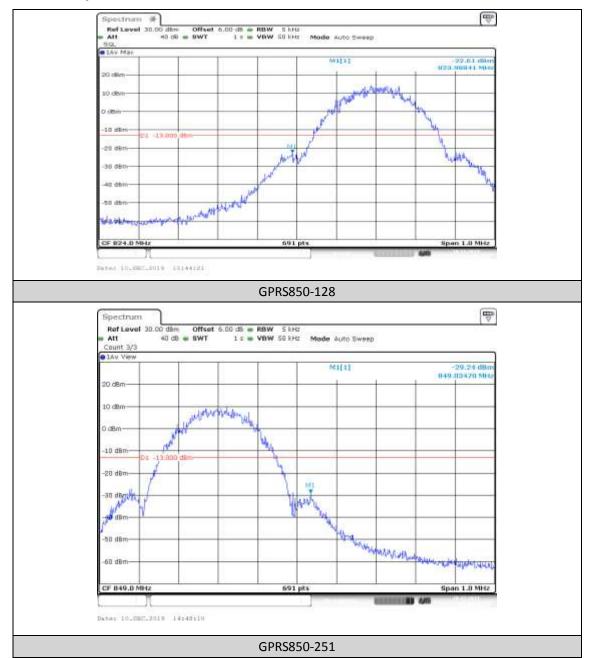
#### **Test Result**

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	-22.61	-13	PASS
GPRS850	251	-29.24	-13	PASS
EGPRS850	128	-29.13	-13	PASS
EGPRS850	251	-30.42	-13	PASS
GPRS1900	512	-25.11	-13	PASS
GPRS1900	810	-32.49	-13	PASS
EGPRS1900	512	-28.12	-13	PASS
EGPRS1900	810	-32.04	-13	PASS



**d**D

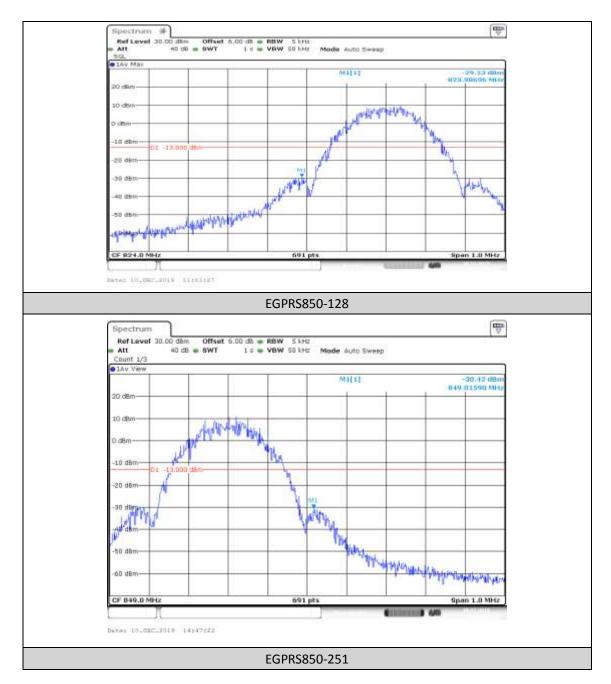
#### **Test Graphs**



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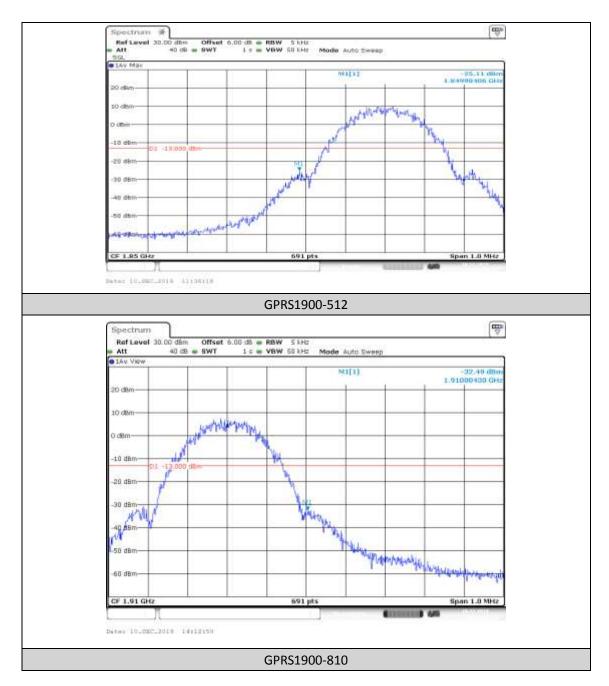




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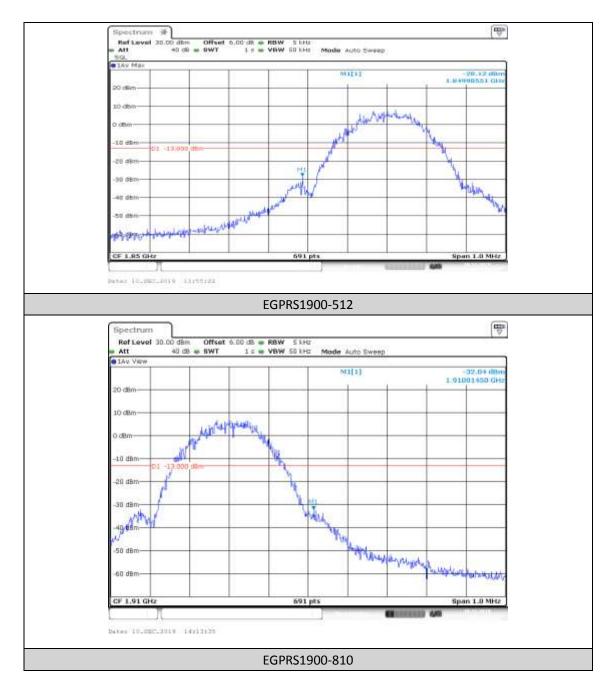




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# **Appendix E: Conducted Spurious Emission**

#### **Test Result**

Band	Channel	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	0.009~0.15	-48.45	-33	PASS
GPRS850	128	0.15~30	-54.13	-13	PASS
GPRS850	128	30~1000	-43.32	-13	PASS
GPRS850	128	1000~5000	-27.85	-13	PASS
GPRS850	128	5000~12000	-47.69	-13	PASS
GPRS850	128	12000~18000	-43.59	-13	PASS
GPRS850	190	0.009~0.15	-48.23	-33	PASS
GPRS850	190	0.15~30	-56.08	-13	PASS
GPRS850	190	30~1000	-32.46	-13	PASS
GPRS850	190	1000~5000	-27.88	-13	PASS
GPRS850	190	5000~12000	-47.70	-13	PASS
GPRS850	190	12000~18000	-43.54	-13	PASS
GPRS850	251	0.009~0.15	-48.03	-33	PASS
GPRS850	251	0.15~30	-55.00	-13	PASS
GPRS850	251	30~1000	-42.22	-13	PASS
GPRS850	251	1000~5000	-27.25	-13	PASS
GPRS850	251	5000~12000	-47.64	-13	PASS
GPRS850	251	12000~18000	-43.58	-13	PASS
EGPRS850	128	0.009~0.15	-47.39	-33	PASS
EGPRS850	128	0.15~30	-55.03	-13	PASS
EGPRS850	128	30~1000	-45.28	-13	PASS
EGPRS850	128	1000~5000	-36.42	-13	PASS
EGPRS850	128	5000~12000	-47.83	-13	PASS
EGPRS850	128	12000~18000	-43.65	-13	PASS
EGPRS850	190	0.009~0.15	-46.78	-33	PASS
EGPRS850	190	0.15~30	-54.46	-13	PASS
EGPRS850	190	30~1000	-44.25	-13	PASS
EGPRS850	190	1000~5000	-36.91	-13	PASS
EGPRS850	190	5000~12000	-47.80	-13	PASS
EGPRS850	190	12000~18000	-43.54	-13	PASS
EGPRS850	251	0.009~0.15	-47.05	-33	PASS
EGPRS850	251	0.15~30	-53.74	-13	PASS
EGPRS850	251	30~1000	-45.28	-13	PASS
EGPRS850	251	1000~5000	-35.92	-13	PASS
EGPRS850	251	5000~12000	-47.80	-13	PASS

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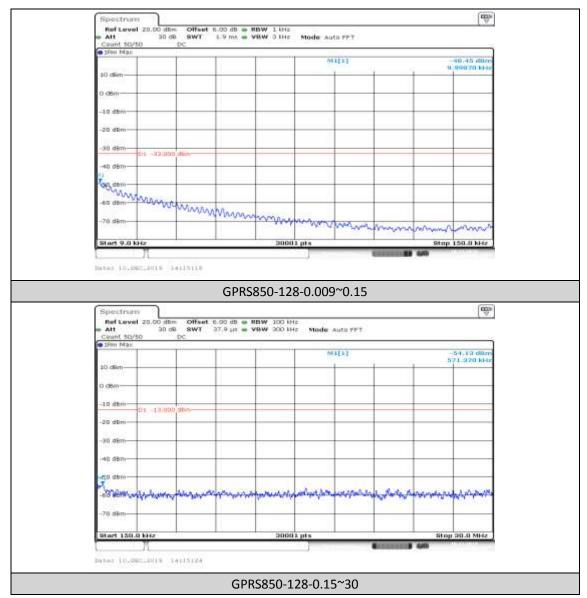


EGPRS850 251 12000~18000 -43.62 -13 PASS   GPRS1900 512 0.009~0.15 -55.23 -43 PASS   GPRS1900 512 0.15~30 -55.41 -23 PASS   GPRS1900 512 30~1000 -44.88 -13 PASS   GPRS1900 512 1000~5000 -28.44 -13 PASS   GPRS1900 512 5000~12000 -40.94 -13 PASS   GPRS1900 512 12000~18000 -43.68 -13 PASS   GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS   GPRS1900 661 30~1000 -44.23 -13 PASS	FCDDCCEC
GPRS1900 512 0.15~30 -55.41 -23 PASS   GPRS1900 512 30~1000 -44.88 -13 PASS   GPRS1900 512 1000~5000 -28.44 -13 PASS   GPRS1900 512 5000~12000 -40.94 -13 PASS   GPRS1900 512 12000~18000 -43.68 -13 PASS   GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS	EGPK5850
GPRS1900 512 30~1000 -44.88 -13 PASS   GPRS1900 512 1000~5000 -28.44 -13 PASS   GPRS1900 512 5000~12000 -40.94 -13 PASS   GPRS1900 512 12000~18000 -43.68 -13 PASS   GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS	GPRS1900
GPRS1900 512 1000~5000 -28.44 -13 PASS   GPRS1900 512 5000~12000 -40.94 -13 PASS   GPRS1900 512 12000~18000 -43.68 -13 PASS   GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS	GPRS1900
GPRS1900 512 5000~12000 -40.94 -13 PASS   GPRS1900 512 12000~18000 -43.68 -13 PASS   GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS	GPRS1900
GPRS1900 512 12000~18000 -43.68 -13 PASS   GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS	GPRS1900
GPRS1900 661 0.009~0.15 -55.12 -43 PASS   GPRS1900 661 0.15~30 -55.29 -23 PASS	GPRS1900
GPRS1900 661 0.15~30 -55.29 -23 PASS	GPRS1900
	GPRS1900
CDRS1000 661 20~1000 44.22 12 DASS	GPRS1900
GPRS1900   661   30~1000   -44.23   -13   PASS	GPRS1900
GPRS1900 661 1000~5000 -27.71 -13 PASS	GPRS1900
GPRS1900 661 5000~12000 -40.73 -13 PASS	GPRS1900
GPRS1900 661 12000~18000 -43.55 -13 PASS	GPRS1900
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GPRS1900 810 30~1000 -45.78 -13 PASS	GPRS1900
GPRS1900 810 1000~5000 -28.39 -13 PASS	GPRS1900
GPRS1900 810 5000~12000 -43.54 -13 PASS	GPRS1900
GPRS1900 810 12000~18000 -43.60 -13 PASS	GPRS1900
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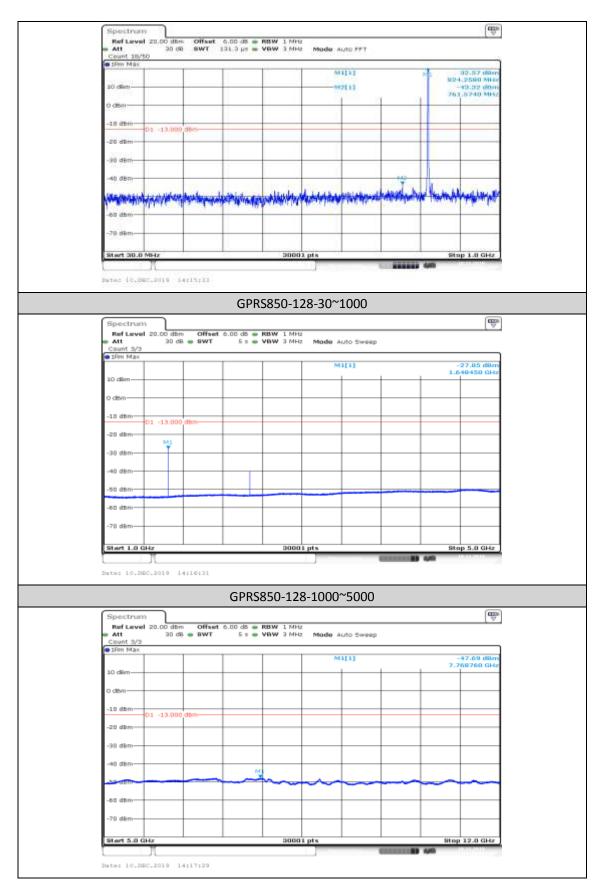
#### **Test Graphs**



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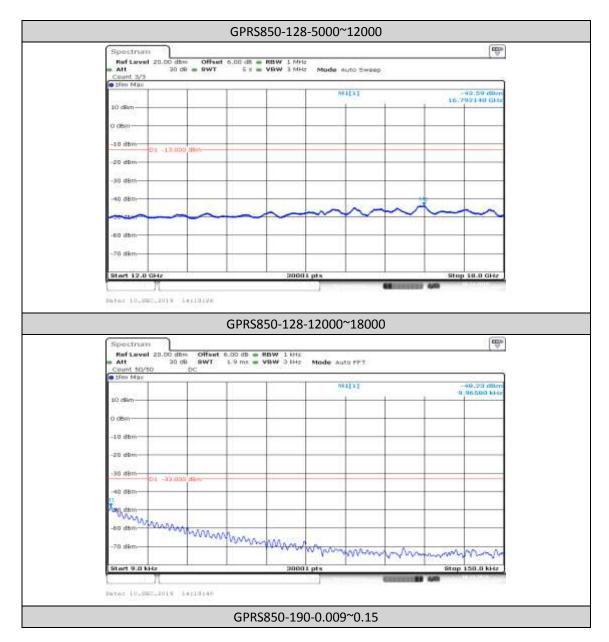
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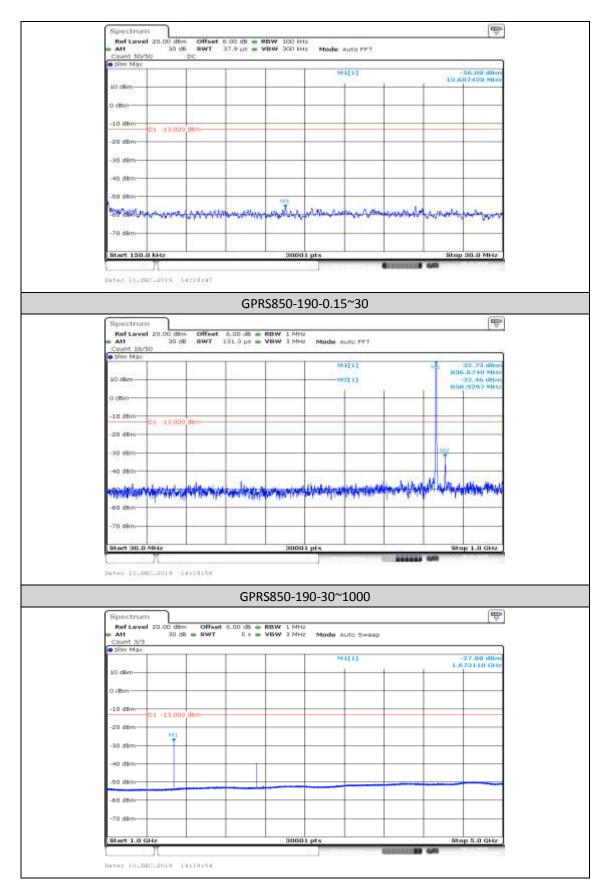






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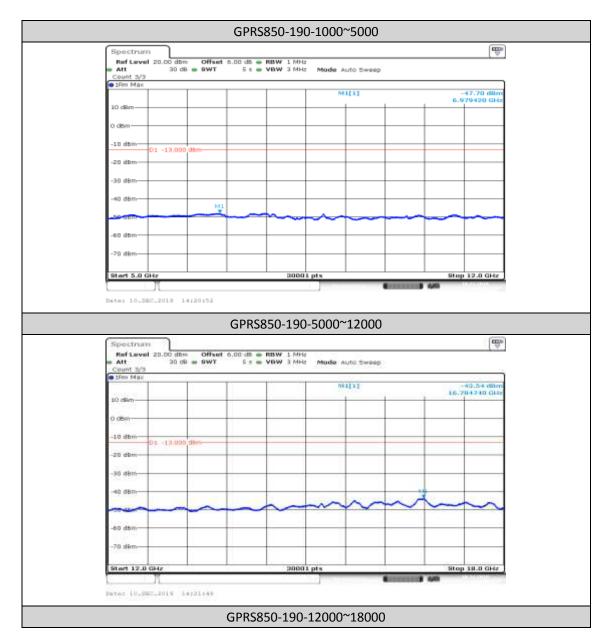
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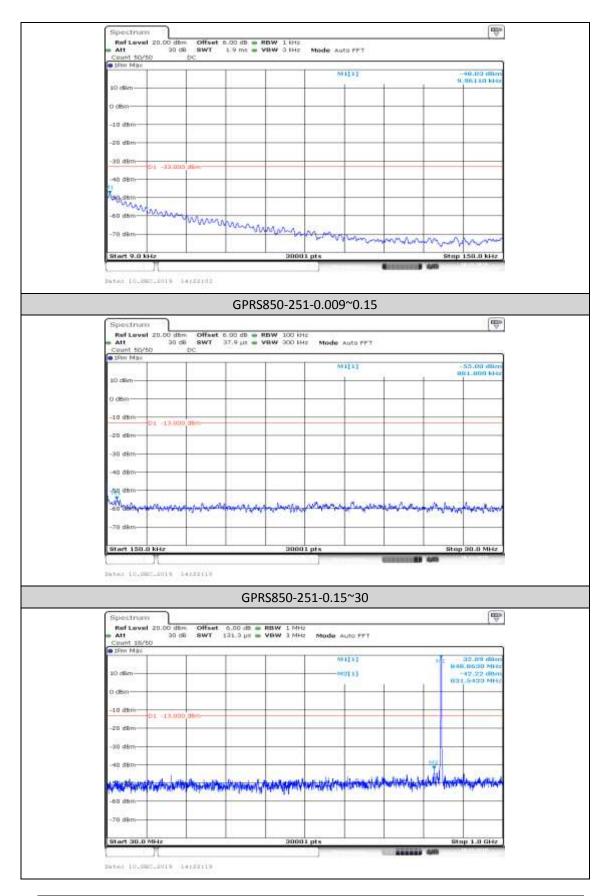




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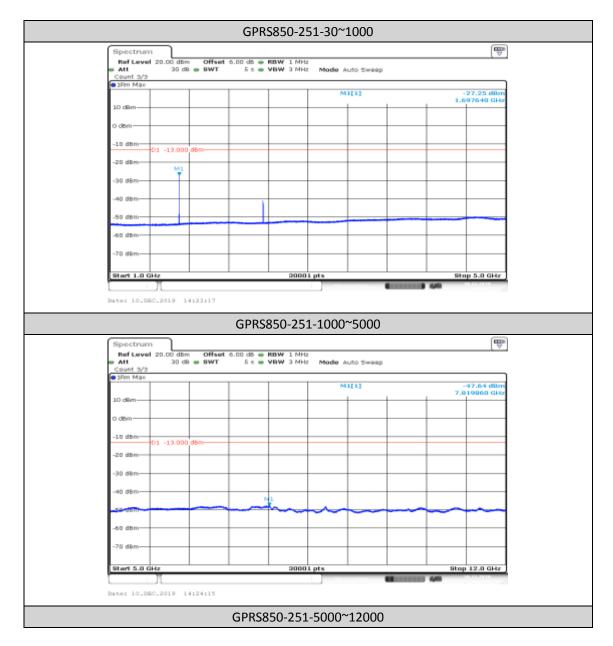
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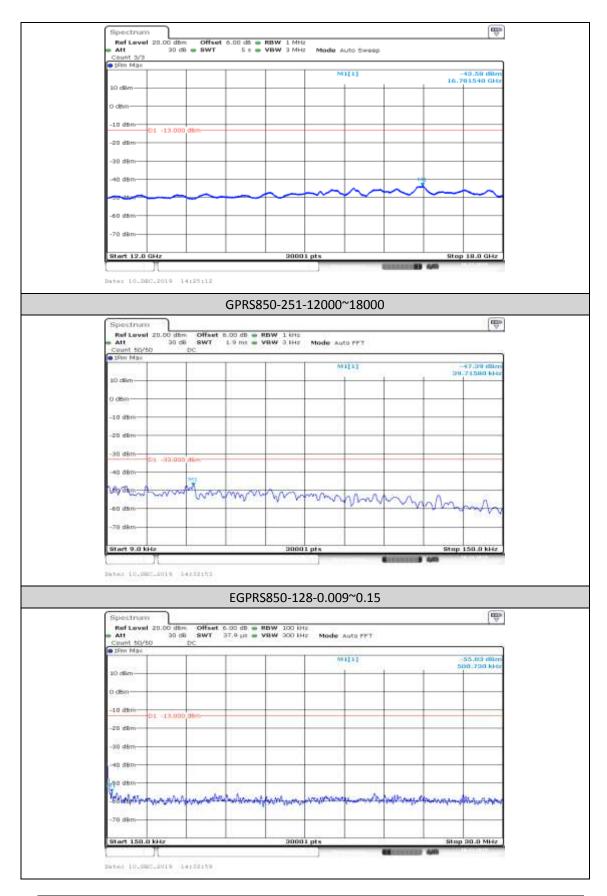


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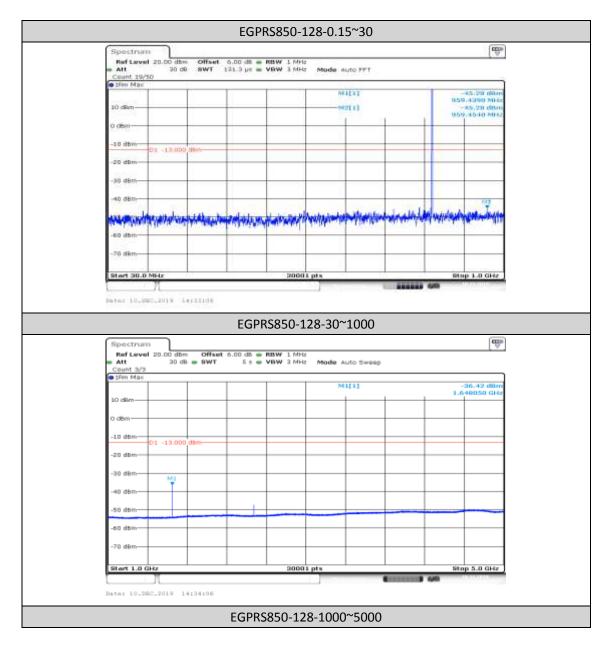








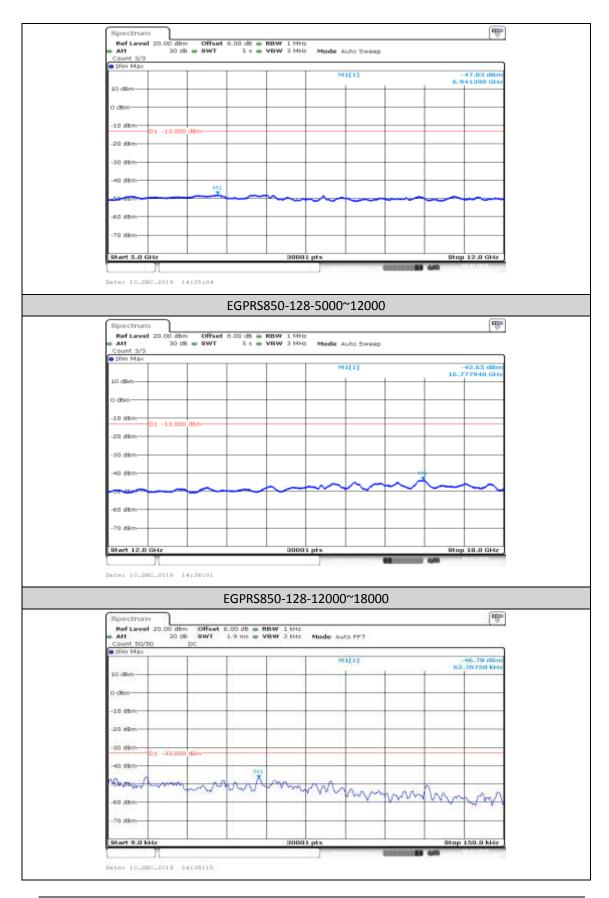




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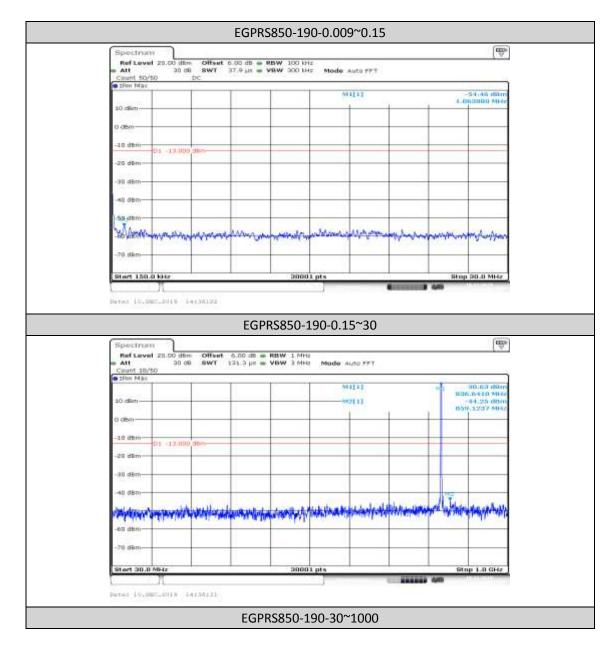








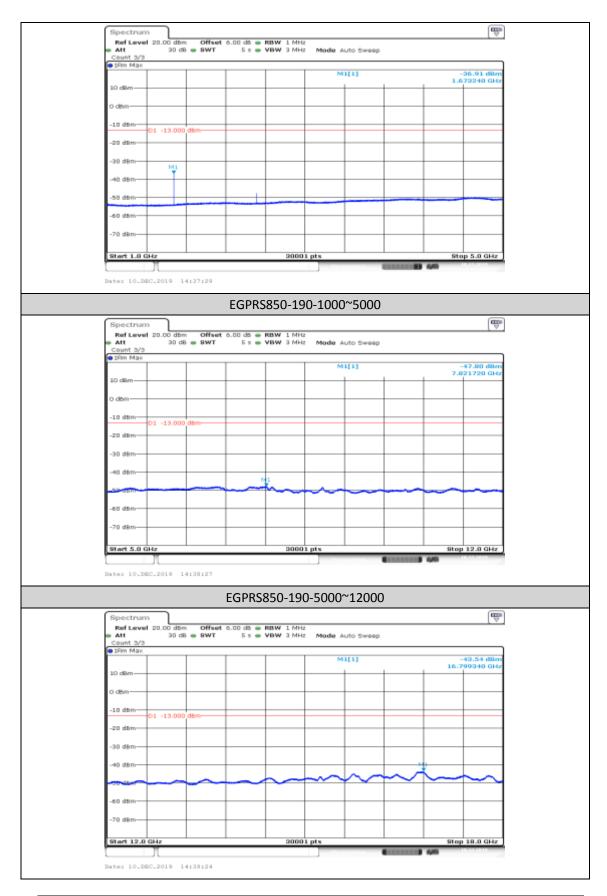




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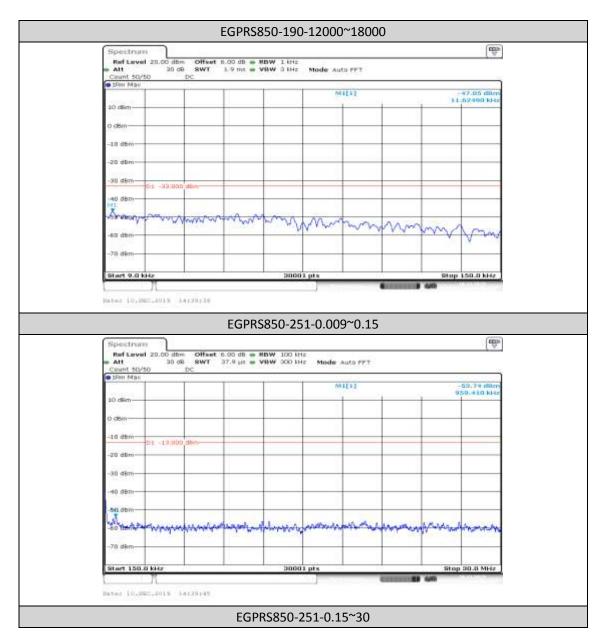








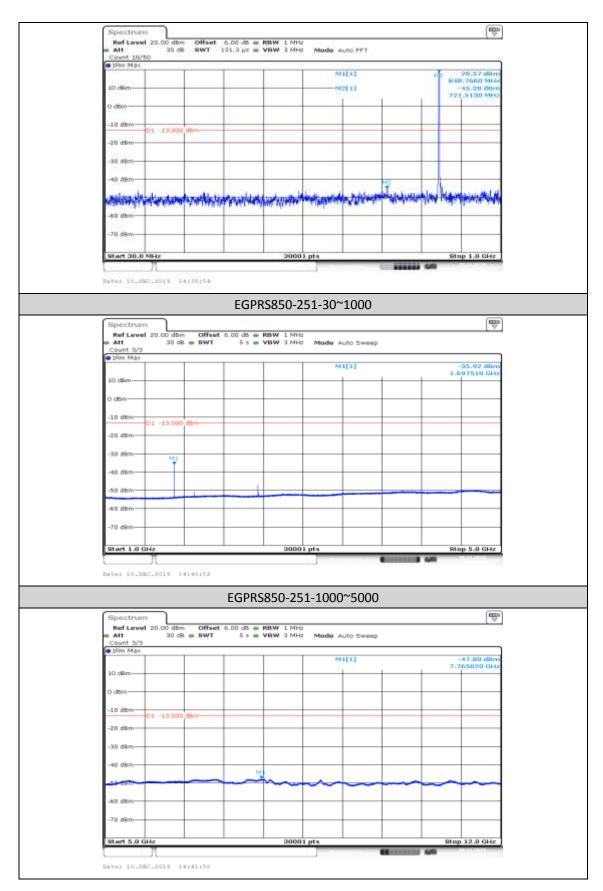




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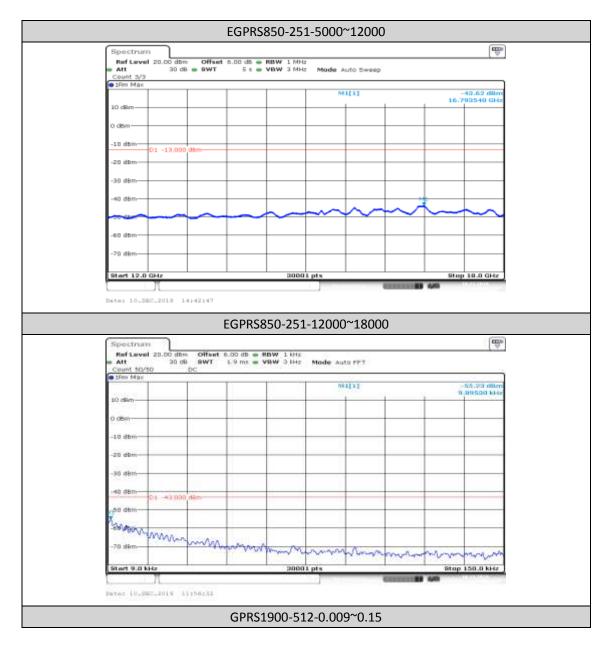








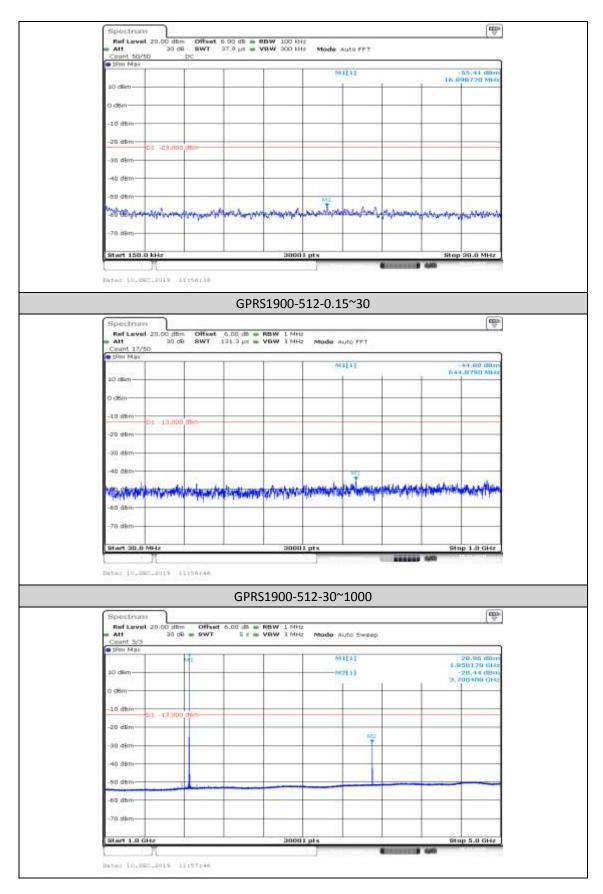




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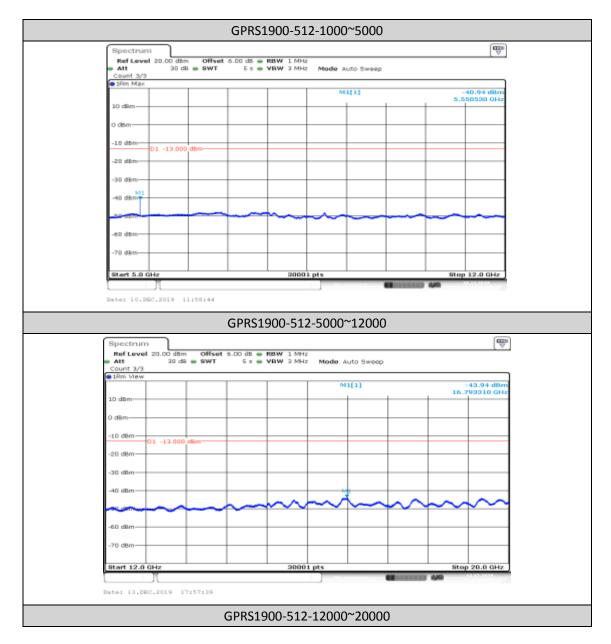








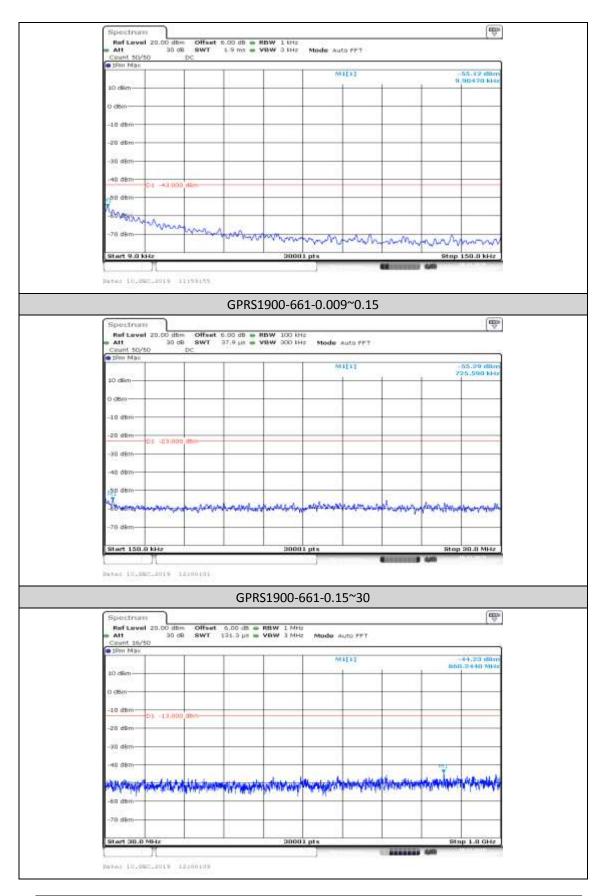






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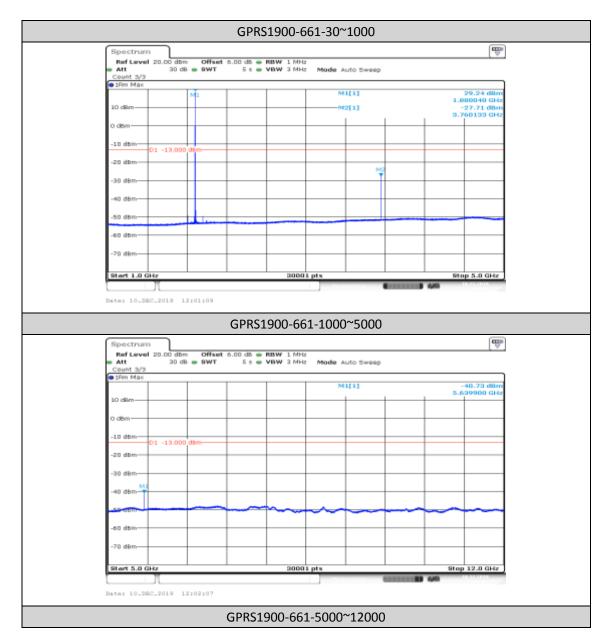






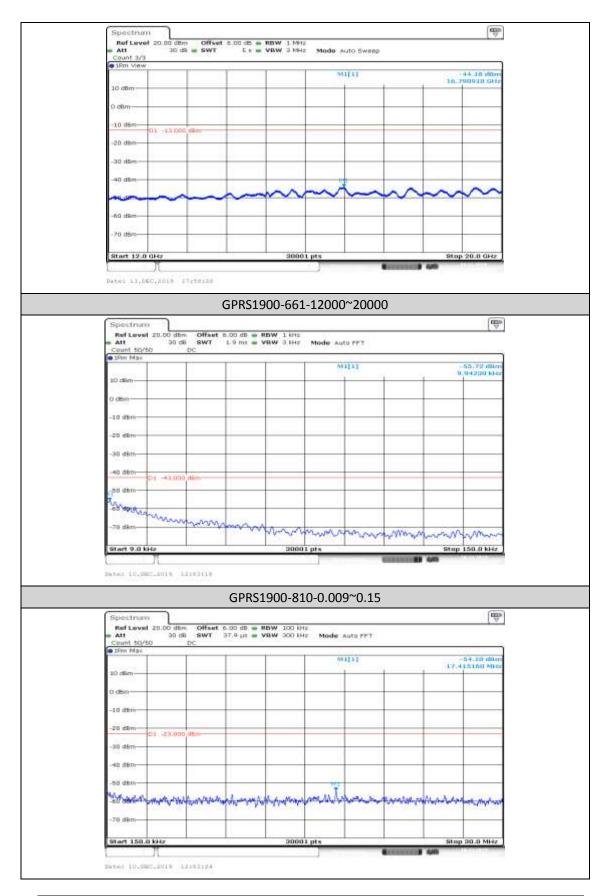






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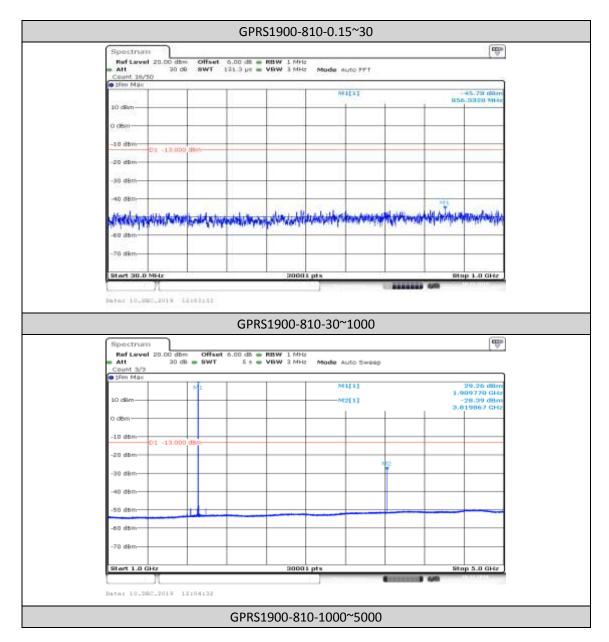










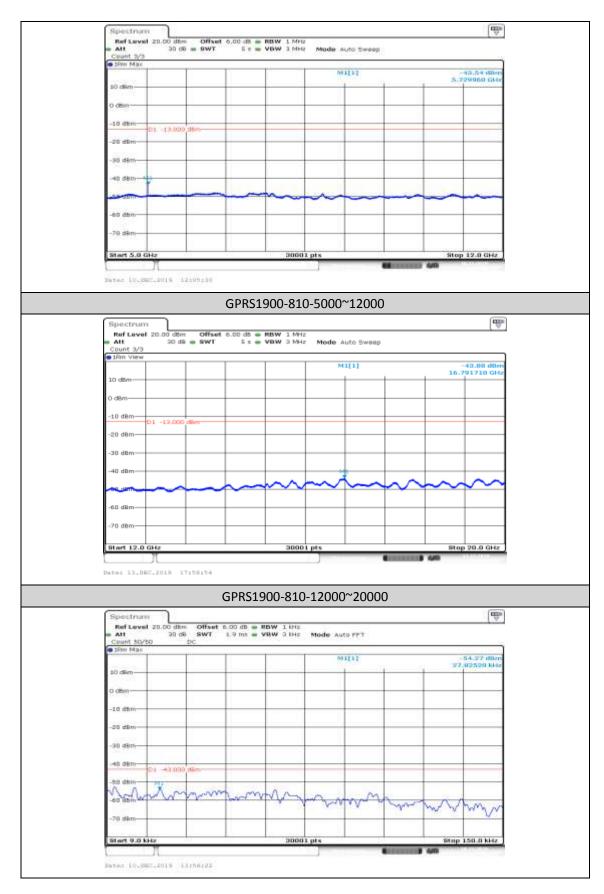


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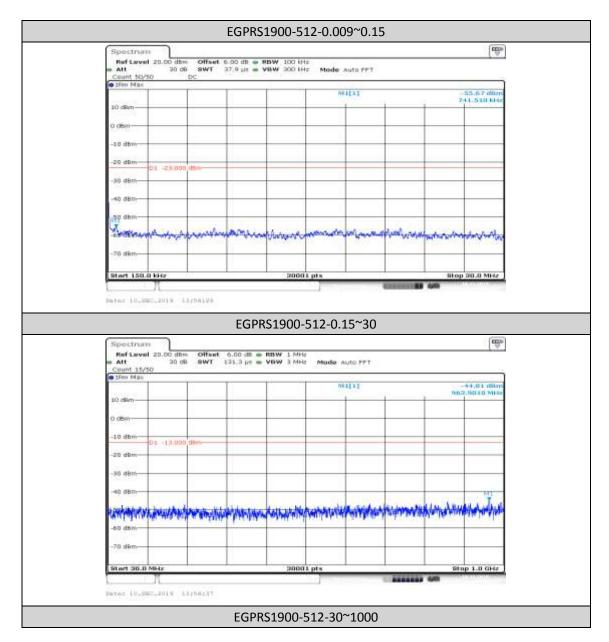










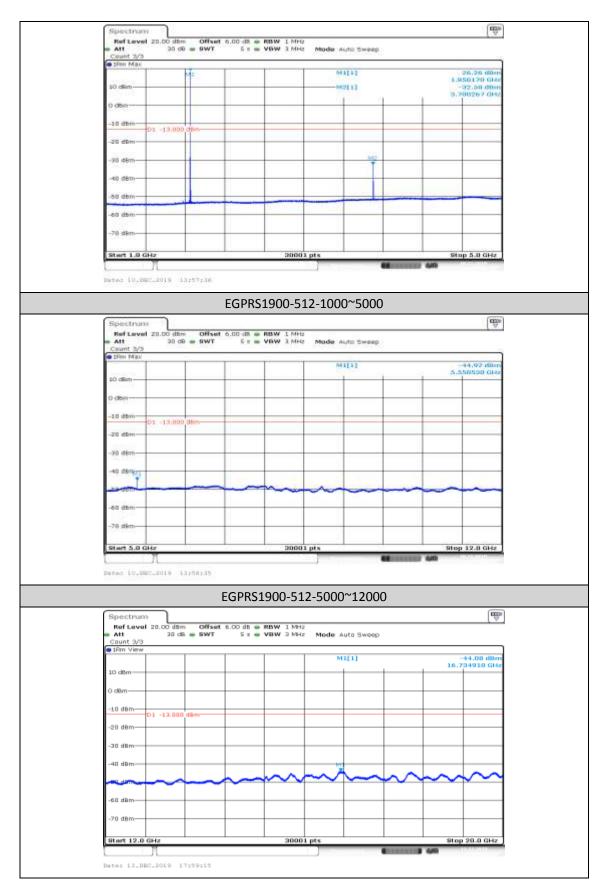




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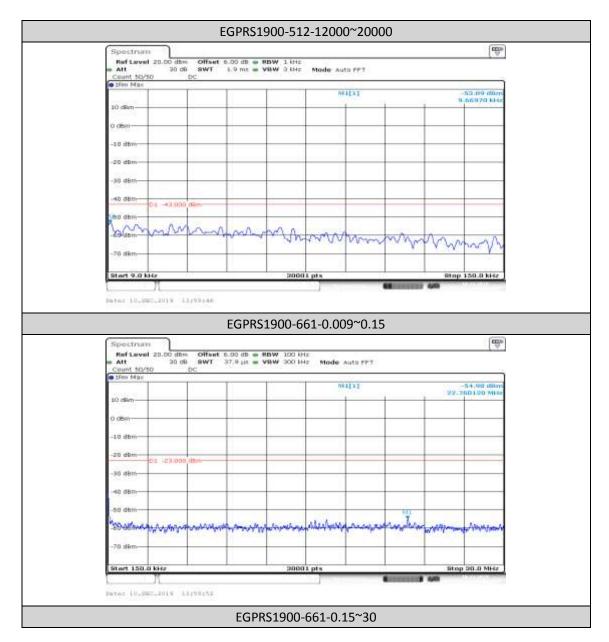






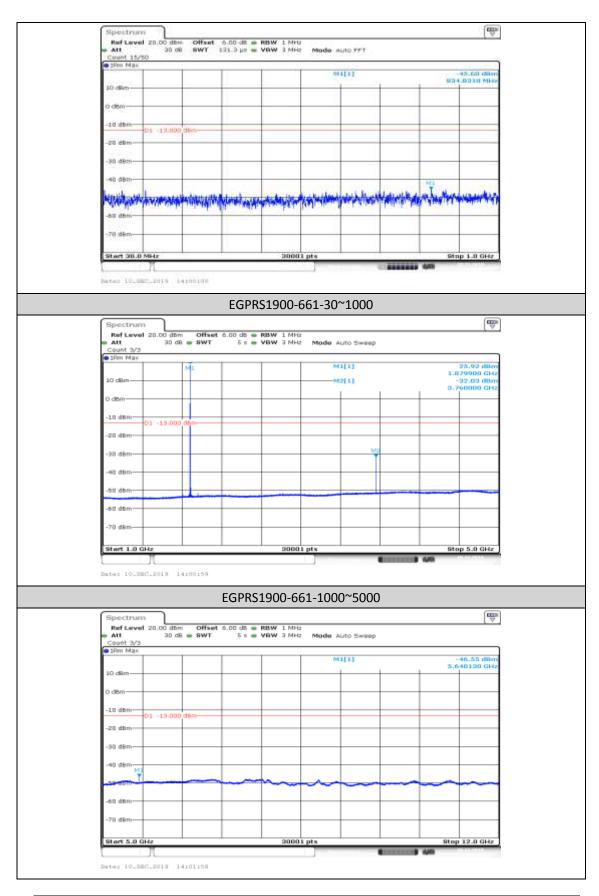






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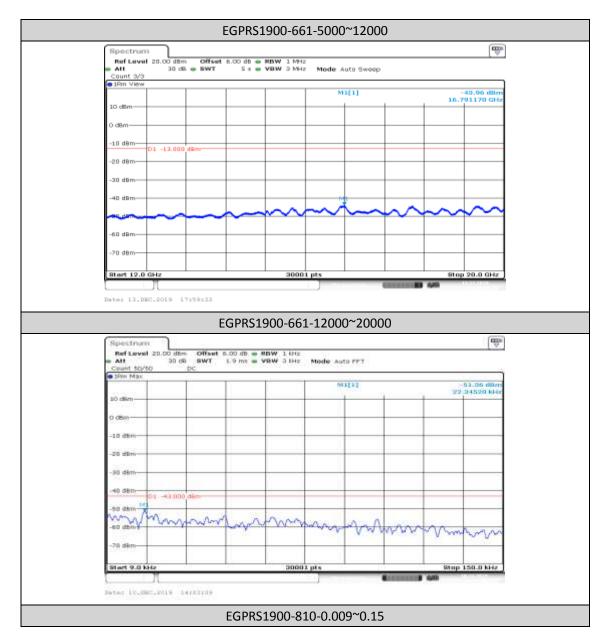






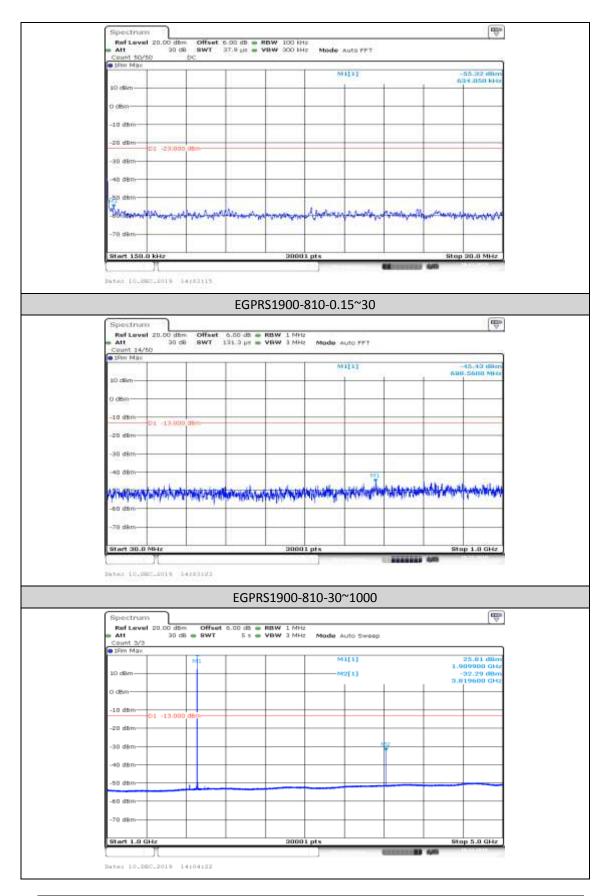






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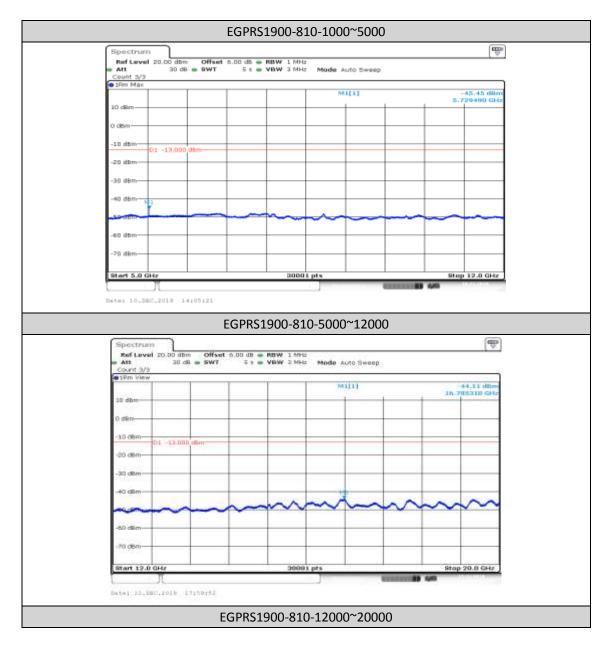












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## **Appendix F: Frequency Stability**

## **Test Result**

Voltage								
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
GPRS850	128	VL	TN	10.65	0.012922	2.5	PASS	
GPRS850	128	VN	TN	10.27	0.012461	2.5	PASS	
GPRS850	128	VH	TN	8.78	0.010653	2.5	PASS	
GPRS850	190	VL	TN	9.49	0.011344	2.5	PASS	
GPRS850	190	VN	TN	7.49	0.008953	2.5	PASS	
GPRS850	190	VH	TN	8.52	0.010184	2.5	PASS	
GPRS850	251	VL	TN	10.14	0.011946	2.5	PASS	
GPRS850	251	VN	TN	8.33	0.009814	2.5	PASS	
GPRS850	251	VH	TN	8.65	0.010191	2.5	PASS	
EGPRS850	128	VL	TN	12.30	0.014924	2.5	PASS	
EGPRS850	128	VN	TN	10.56	0.012812	2.5	PASS	
EGPRS850	128	VH	TN	11.33	0.013747	2.5	PASS	
EGPRS850	190	VL	TN	11.11	0.013280	2.5	PASS	
EGPRS850	190	VN	TN	11.01	0.013160	2.5	PASS	
EGPRS850	190	VH	TN	11.07	0.013232	2.5	PASS	
EGPRS850	251	VL	TN	11.24	0.013242	2.5	PASS	
EGPRS850	251	VN	TN	10.14	0.011946	2.5	PASS	
EGPRS850	251	VH	TN	9.07	0.010686	2.5	PASS	
GPRS1900	512	VL	TN	-3.10	-0.001675	2.5	PASS	
GPRS1900	512	VN	TN	-5.10	-0.002756	2.5	PASS	
GPRS1900	512	VH	TN	-3.81	-0.002059	2.5	PASS	
GPRS1900	661	VL	TN	-2.00	-0.001064	2.5	PASS	
GPRS1900	661	VN	TN	2.84	0.001511	2.5	PASS	
GPRS1900	661	VH	TN	-0.13	-0.000069	2.5	PASS	
GPRS1900	810	VL	TN	-2.32	-0.001215	2.5	PASS	
GPRS1900	810	VN	TN	-2.13	-0.001115	2.5	PASS	
GPRS1900	810	VH	TN	-2.13	-0.001115	2.5	PASS	
EGPRS1900	512	VL	TN	2.45	0.001324	2.5	PASS	
EGPRS1900	512	VN	TN	1.45	0.000784	2.5	PASS	
EGPRS1900	512	VH	TN	-1.61	-0.000870	2.5	PASS	
EGPRS1900	661	VL	TN	3.58	0.001904	2.5	PASS	
EGPRS1900	661	VN	TN	2.10	0.001117	2.5	PASS	
EGPRS1900	661	VH	TN	-1.42	-0.000755	2.5	PASS	

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EGPRS1900 810  $\mathsf{TN}$ -0.000272 2.5 **PASS** ٧L -0.52 EGPRS1900 810 VN ΤN -0.77 -0.000403 2.5 **PASS** EGPRS1900 810 VΗ ΤN -1.03 -0.000539 2.5 **PASS** 

Temperature								
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
GPRS850	128	VN	-30	6.78	0.008226	2.5	PASS	
GPRS850	128	VN	-20	10.40	0.012618	2.5	PASS	
GPRS850	128	VN	-10	8.78	0.010653	2.5	PASS	
GPRS850	128	VN	0	10.53	0.012776	2.5	PASS	
GPRS850	128	VN	10	9.94	0.012060	2.5	PASS	
GPRS850	128	VN	20	10.53	0.012776	2.5	PASS	
GPRS850	190	VN	-30	9.30	0.011116	2.5	PASS	
GPRS850	190	VN	-20	8.59	0.010268	2.5	PASS	
GPRS850	190	VN	-10	10.20	0.012192	2.5	PASS	
GPRS850	190	VN	0	9.10	0.010877	2.5	PASS	
GPRS850	190	VN	10	9.04	0.010806	2.5	PASS	
GPRS850	190	VN	20	9.04	0.010806	2.5	PASS	
GPRS850	251	VN	-30	8.01	0.009437	2.5	PASS	
GPRS850	251	VN	-20	9.30	0.010957	2.5	PASS	
GPRS850	251	VN	-10	12.01	0.014149	2.5	PASS	
GPRS850	251	VN	0	9.04	0.010650	2.5	PASS	
GPRS850	251	VN	10	9.17	0.010803	2.5	PASS	
GPRS850	251	VN	20	9.56	0.011263	2.5	PASS	
EGPRS850	128	VN	-30	9.33	0.011320	2.5	PASS	
EGPRS850	128	VN	-20	8.72	0.010580	2.5	PASS	
EGPRS850	128	VN	-10	9.17	0.011126	2.5	PASS	
EGPRS850	128	VN	0	10.69	0.012970	2.5	PASS	
EGPRS850	128	VN	10	12.66	0.015360	2.5	PASS	
EGPRS850	128	VN	20	10.20	0.012376	2.5	PASS	
EGPRS850	190	VN	-30	10.23	0.012228	2.5	PASS	
EGPRS850	190	VN	-20	11.78	0.014081	2.5	PASS	
EGPRS850	190	VN	-10	9.43	0.011272	2.5	PASS	
EGPRS850	190	VN	0	9.52	0.011379	2.5	PASS	
EGPRS850	190	VN	10	11.43	0.013662	2.5	PASS	
EGPRS850	190	VN	20	10.30	0.012312	2.5	PASS	
EGPRS850	251	VN	-30	10.04	0.011828	2.5	PASS	
EGPRS850	251	VN	-20	10.98	0.012936	2.5	PASS	
EGPRS850	251	VN	-10	11.33	0.013348	2.5	PASS	

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EGPRS850	251	VN	0	9.88	0.011640	2.5	PASS
EGPRS850	251	VN	10	11.66	0.013737	2.5	PASS
EGPRS850	251	VN	20	9.69	0.011416	2.5	PASS
GPRS1900	512	VN	-30	-2.13	-0.001151	2.5	PASS
GPRS1900	512	VN	-20	-2.84	-0.001535	2.5	PASS
GPRS1900	512	VN	-10	-0.19	-0.000103	2.5	PASS
GPRS1900	512	VN	0	-0.52	-0.000281	2.5	PASS
GPRS1900	512	VN	10	-0.06	-0.000032	2.5	PASS
GPRS1900	512	VN	20	-1.10	-0.000595	2.5	PASS
GPRS1900	661	VN	-30	0.90	0.000479	2.5	PASS
GPRS1900	661	VN	-20	2.32	0.001234	2.5	PASS
GPRS1900	661	VN	-10	-2.39	-0.001271	2.5	PASS
GPRS1900	661	VN	0	-1.03	-0.000548	2.5	PASS
GPRS1900	661	VN	10	-2.91	-0.001548	2.5	PASS
GPRS1900	661	VN	20	-1.16	-0.000617	2.5	PASS
GPRS1900	810	VN	-30	-1.49	-0.000780	2.5	PASS
GPRS1900	810	VN	-20	-1.10	-0.000576	2.5	PASS
GPRS1900	810	VN	-10	-2.97	-0.001555	2.5	PASS
GPRS1900	810	VN	0	-1.68	-0.000880	2.5	PASS
GPRS1900	810	VN	10	0.84	0.000440	2.5	PASS
GPRS1900	810	VN	20	2.58	0.001351	2.5	PASS
EGPRS1900	512	VN	-30	3.33	0.001800	2.5	PASS
EGPRS1900	512	VN	-20	2.78	0.001503	2.5	PASS
EGPRS1900	512	VN	-10	2.97	0.001605	2.5	PASS
EGPRS1900	512	VN	0	1.13	0.000611	2.5	PASS
EGPRS1900	512	VN	10	-3.71	-0.002005	2.5	PASS
EGPRS1900	512	VN	20	5.17	0.002794	2.5	PASS
EGPRS1900	661	VN	-30	3.58	0.001904	2.5	PASS
EGPRS1900	661	VN	-20	5.29	0.002814	2.5	PASS
EGPRS1900	661	VN	-10	6.20	0.003298	2.5	PASS
EGPRS1900	661	VN	0	1.94	0.001032	2.5	PASS
EGPRS1900	661	VN	10	3.52	0.001872	2.5	PASS
EGPRS1900	661	VN	20	5.88	0.003128	2.5	PASS
EGPRS1900	810	VN	-30	2.26	0.001183	2.5	PASS
EGPRS1900	810	VN	-20	2.74	0.001435	2.5	PASS
EGPRS1900	810	VN	-10	6.62	0.003466	2.5	PASS
EGPRS1900	810	VN	0	-0.97	-0.000508	2.5	PASS
EGPRS1900	810	VN	10	0.29	0.000152	2.5	PASS
EGPRS1900	810	VN	20	3.20	0.001676	2.5	PASS

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