



Appendix B.16

LTE Band 43(3600-3700)



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Shenzhen Branch (SGS-CSTC) Wireless Laboratory

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band43	5MHz	QPSK	43615	1RB#0	23.45	21.45	23.00	PASS
Band43	5MHz	16QAM	43615	1RB#0	22.74	20.74	23.00	PASS
Band43	5MHz	QPSK	43615	1RB#12	23.45	21.45	23.00	PASS
Band43	5MHz	16QAM	43615	1RB#12	22.74	20.74	23.00	PASS
Band43	5MHz	QPSK	43615	1RB#24	23.48	21.48	23.00	PASS
Band43	5MHz	16QAM	43615	1RB#24	22.74	20.74	23.00	PASS
Band43	5MHz	QPSK	43615	25RB#0	22.63	20.63	23.00	PASS
Band43	5MHz	16QAM	43615	25RB#0	21.62	19.62	23.00	PASS
Band43	5MHz	QPSK	44090	1RB#0	23.67	21.67	23.00	PASS
Band43	5MHz	16QAM	44090	1RB#0	22.89	20.89	23.00	PASS
Band43	5MHz	QPSK	44090	1RB#12	23.52	21.52	23.00	PASS
Band43	5MHz	16QAM	44090	1RB#12	22.82	20.82	23.00	PASS
Band43	5MHz	QPSK	44090	1RB#24	23.58	21.58	23.00	PASS
Band43	5MHz	16QAM	44090	1RB#24	22.91	20.91	23.00	PASS
Band43	5MHz	QPSK	44090	25RB#0	22.66	20.66	23.00	PASS
Band43	5MHz	16QAM	44090	25RB#0	21.70	19.70	23.00	PASS
Band43	5MHz	QPSK	44565	1RB#0	23.81	21.81	23.00	PASS
Band43	5MHz	16QAM	44565	1RB#0	22.98	20.98	23.00	PASS
Band43	5MHz	QPSK	44565	1RB#12	23.71	21.71	23.00	PASS
Band43	5MHz	16QAM	44565	1RB#12	23.04	21.04	23.00	PASS
Band43	5MHz	QPSK	44565	1RB#24	23.76	21.76	23.00	PASS
Band43	5MHz	16QAM	44565	1RB#24	22.97	20.97	23.00	PASS
Band43	5MHz	QPSK	44565	25RB#0	22.86	20.86	23.00	PASS
Band43	5MHz	16QAM	44565	25RB#0	21.95	19.95	23.00	PASS
Band43	10MHz	QPSK	43640	1RB#0	23.50	21.50	23.00	PASS
Band43	10MHz	16QAM	43640	1RB#0	22.71	20.71	23.00	PASS
Band43	10MHz	QPSK	43640	1RB#24	23.45	21.45	23.00	PASS
Band43	10MHz	16QAM	43640	1RB#24	22.73	20.73	23.00	PASS
Band43	10MHz	QPSK	43640	1RB#49	23.48	21.48	23.00	PASS



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Band43	10MHz	16QAM	43640	1RB#49	22.70	20.70	23.00	PASS
Band43	10MHz	QPSK	43640	50RB#0	22.57	20.57	23.00	PASS
Band43	10MHz	16QAM	43640	50RB#0	21.57	19.57	23.00	PASS
Band43	10MHz	QPSK	44090	1RB#0	23.51	21.51	23.00	PASS
Band43	10MHz	16QAM	44090	1RB#0	22.84	20.84	23.00	PASS
Band43	10MHz	QPSK	44090	1RB#24	23.58	21.58	23.00	PASS
Band43	10MHz	16QAM	44090	1RB#24	22.82	20.82	23.00	PASS
Band43	10MHz	QPSK	44090	1RB#49	23.63	21.63	23.00	PASS
Band43	10MHz	16QAM	44090	1RB#49	22.89	20.89	23.00	PASS
Band43	10MHz	QPSK	44090	50RB#0	22.72	20.72	23.00	PASS
Band43	10MHz	16QAM	44090	50RB#0	21.75	19.75	23.00	PASS
Band43	10MHz	QPSK	44540	1RB#0	23.85	21.85	23.00	PASS
Band43	10MHz	16QAM	44540	1RB#0	22.98	20.98	23.00	PASS
Band43	10MHz	QPSK	44540	1RB#24	23.78	21.78	23.00	PASS
Band43	10MHz	16QAM	44540	1RB#24	22.96	20.96	23.00	PASS
Band43	10MHz	QPSK	44540	1RB#49	23.72	21.72	23.00	PASS
Band43	10MHz	16QAM	44540	1RB#49	22.98	20.98	23.00	PASS
Band43	10MHz	QPSK	44540	50RB#0	22.95	20.95	23.00	PASS
Band43	10MHz	16QAM	44540	50RB#0	21.92	19.92	23.00	PASS
Band43	15MHz	QPSK	43665	1RB#0	23.44	21.44	23.00	PASS
Band43	15MHz	16QAM	43665	1RB#0	22.66	20.66	23.00	PASS
Band43	15MHz	QPSK	43665	1RB#38	23.41	21.41	23.00	PASS
Band43	15MHz	16QAM	43665	1RB#38	22.74	20.74	23.00	PASS
Band43	15MHz	QPSK	43665	1RB#74	23.45	21.45	23.00	PASS
Band43	15MHz	16QAM	43665	1RB#74	22.83	20.83	23.00	PASS
Band43	15MHz	QPSK	43665	75RB#0	22.55	20.55	23.00	PASS
Band43	15MHz	16QAM	43665	75RB#0	21.58	19.58	23.00	PASS
Band43	15MHz	QPSK	44090	1RB#0	23.47	21.47	23.00	PASS
Band43	15MHz	16QAM	44090	1RB#0	22.78	20.78	23.00	PASS
Band43	15MHz	QPSK	44090	1RB#38	23.63	21.63	23.00	PASS
Band43	15MHz	16QAM	44090	1RB#38	22.82	20.82	23.00	PASS
Band43	15MHz	QPSK	44090	1RB#74	23.64	21.64	23.00	PASS
Band43	15MHz	16QAM	44090	1RB#74	22.94	20.94	23.00	PASS
Band43	15MHz	QPSK	44090	75RB#0	22.67	20.67	23.00	PASS
Band43	15MHz	16QAM	44090	75RB#0	21.66	19.66	23.00	PASS
Band43	15MHz	QPSK	44515	1RB#0	23.81	21.81	23.00	PASS
Band43	15MHz	16QAM	44515	1RB#0	23.07	21.07	23.00	PASS



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Band43	15MHz	QPSK	44515	1RB#38	23.73	21.73	23.00	PASS
Band43	15MHz	16QAM	44515	1RB#38	23.05	21.05	23.00	PASS
Band43	15MHz	QPSK	44515	1RB#74	23.87	21.87	23.00	PASS
Band43	15MHz	16QAM	44515	1RB#74	23.08	21.08	23.00	PASS
Band43	15MHz	QPSK	44515	75RB#0	22.99	20.99	23.00	PASS
Band43	15MHz	16QAM	44515	75RB#0	21.95	19.95	23.00	PASS
Band43	20MHz	QPSK	43690	1RB#0	23.38	21.38	23.00	PASS
Band43	20MHz	16QAM	43690	1RB#0	22.67	20.67	23.00	PASS
Band43	20MHz	QPSK	43690	1RB#49	23.43	21.43	23.00	PASS
Band43	20MHz	16QAM	43690	1RB#49	22.74	20.74	23.00	PASS
Band43	20MHz	QPSK	43690	1RB#99	23.47	21.47	23.00	PASS
Band43	20MHz	16QAM	43690	1RB#99	22.84	20.84	23.00	PASS
Band43	20MHz	QPSK	43690	100RB#0	22.55	20.55	23.00	PASS
Band43	20MHz	16QAM	43690	100RB#0	21.60	19.60	23.00	PASS
Band43	20MHz	QPSK	44090	1RB#0	23.45	21.45	23.00	PASS
Band43	20MHz	16QAM	44090	1RB#0	22.66	20.66	23.00	PASS
Band43	20MHz	QPSK	44090	1RB#49	23.56	21.56	23.00	PASS
Band43	20MHz	16QAM	44090	1RB#49	22.86	20.86	23.00	PASS
Band43	20MHz	QPSK	44090	1RB#99	23.66	21.66	23.00	PASS
Band43	20MHz	16QAM	44090	1RB#99	23.02	21.02	23.00	PASS
Band43	20MHz	QPSK	44090	100RB#0	22.63	20.63	23.00	PASS
Band43	20MHz	16QAM	44090	100RB#0	21.78	19.78	23.00	PASS
Band43	20MHz	QPSK	44490	1RB#0	23.39	21.39	23.00	PASS
Band43	20MHz	16QAM	44490	1RB#0	22.33	20.33	23.00	PASS
Band43	20MHz	QPSK	44490	1RB#49	23.16	21.16	23.00	PASS
Band43	20MHz	16QAM	44490	1RB#49	23.08	21.08	23.00	PASS
Band43	20MHz	QPSK	44490	1RB#99	23.76	21.76	23.00	PASS
Band43	20MHz	16QAM	44490	1RB#99	23.06	21.06	23.00	PASS
Band43	20MHz	QPSK	44490	100RB#0	22.81	20.81	23.00	PASS
Band43	20MHz	16QAM	44490	100RB#0	21.90	19.90	23.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band43	20MHz	QPSK	43690	100RB#0	7.66	13	PASS
Band43	20MHz	16QAM	43690	100RB#0	8.20	13	PASS
Band43	20MHz	QPSK	44090	100RB#0	7.58	13	PASS
Band43	20MHz	16QAM	44090	100RB#0	8.36	13	PASS
Band43	20MHz	QPSK	44490	100RB#0	7.60	13	PASS
Band43	20MHz	16QAM	44490	100RB#0	8.52	13	PASS

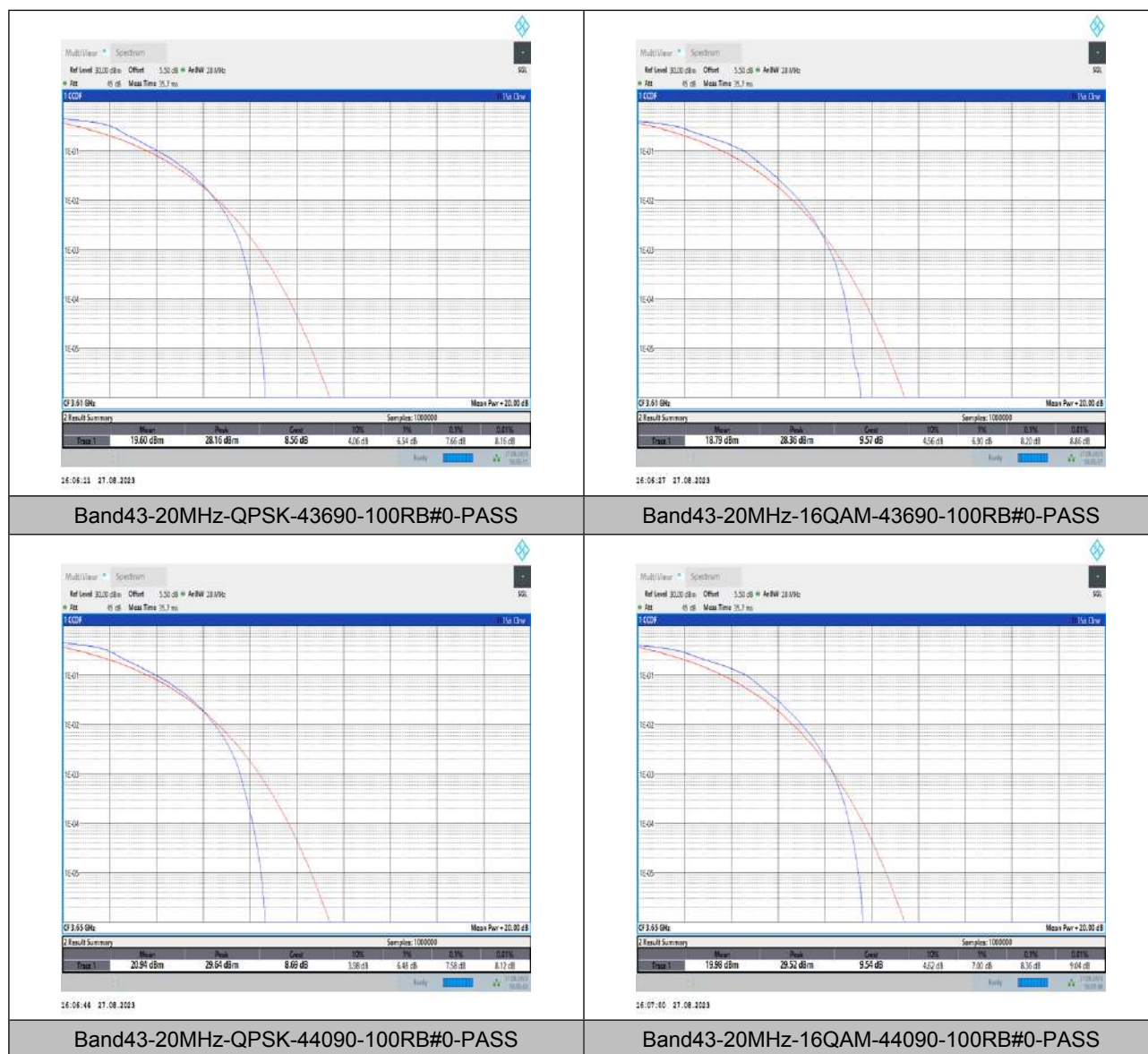


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Test Graphs



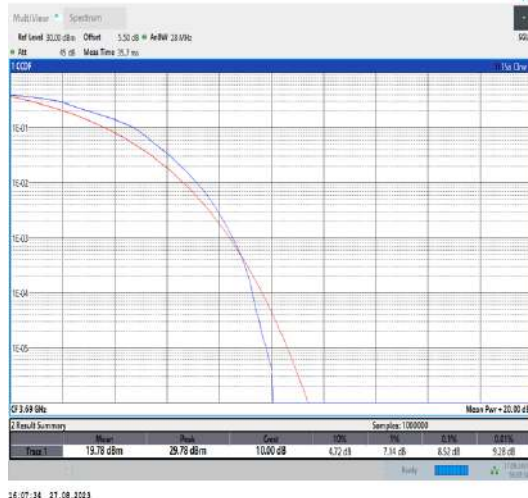
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Band43-20MHz-QPSK-44490-100RB#0-PASS



Band43-20MHz-16QAM-44490-100RB#0-PASS



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band43	5MHz	QPSK	44090	25RB#0	4.487	4.85	PASS
Band43	5MHz	16QAM	44090	25RB#0	4.499	4.95	PASS
Band43	10MHz	QPSK	44090	50RB#0	8.969	9.57	PASS
Band43	10MHz	16QAM	44090	50RB#0	9.012	9.50	PASS
Band43	15MHz	QPSK	44090	75RB#0	13.528	14.35	PASS
Band43	15MHz	16QAM	44090	75RB#0	13.503	14.30	PASS
Band43	20MHz	QPSK	44090	100RB#0	18.039	19.20	PASS
Band43	20MHz	16QAM	44090	100RB#0	18.022	19.13	PASS

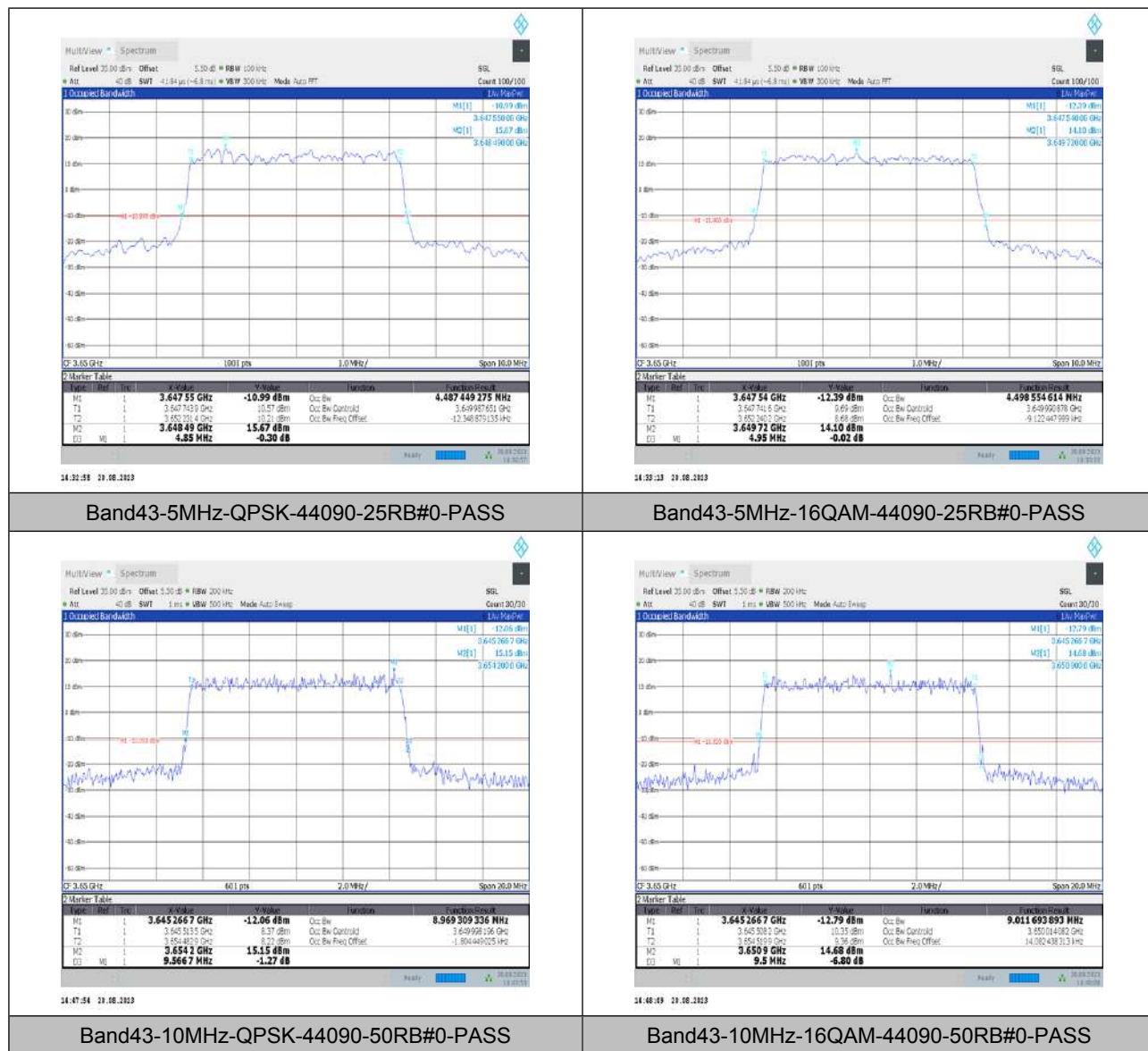


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Test Graphs

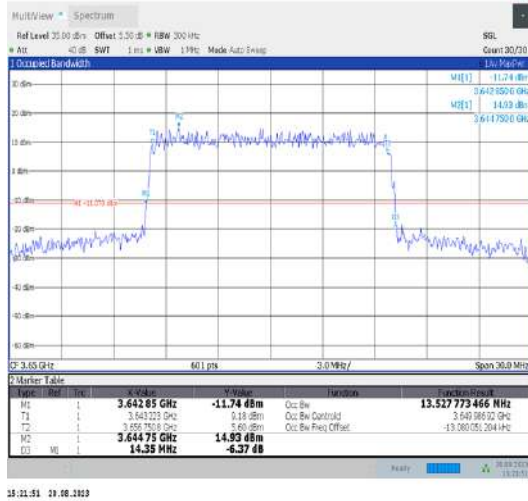


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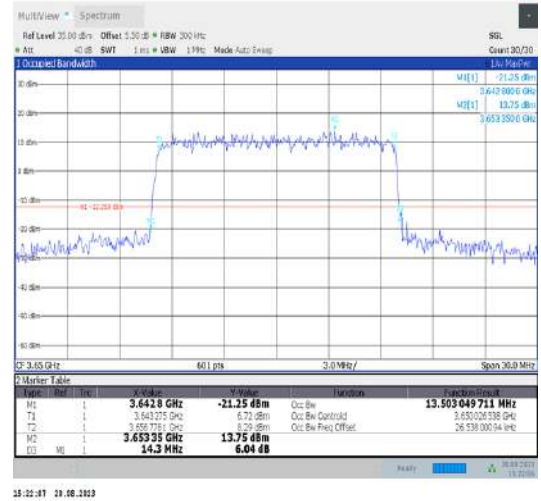
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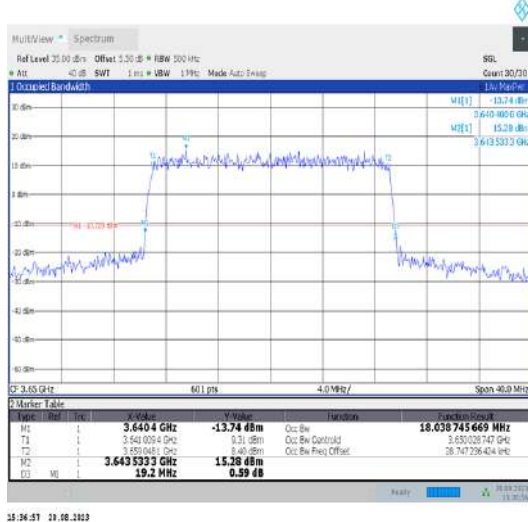
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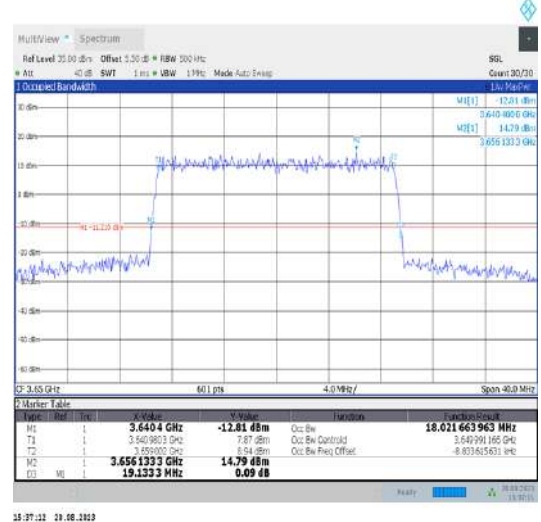
Band43-15MHz-QPSK-44090-75RB#0-PASS



Band43-15MHz-16QAM-44090-75RB#0-PASS



Band43-20MHz-QPSK-44090-100RB#0-PASS



Band43-20MHz-16QAM-44090-100RB#0-PASS



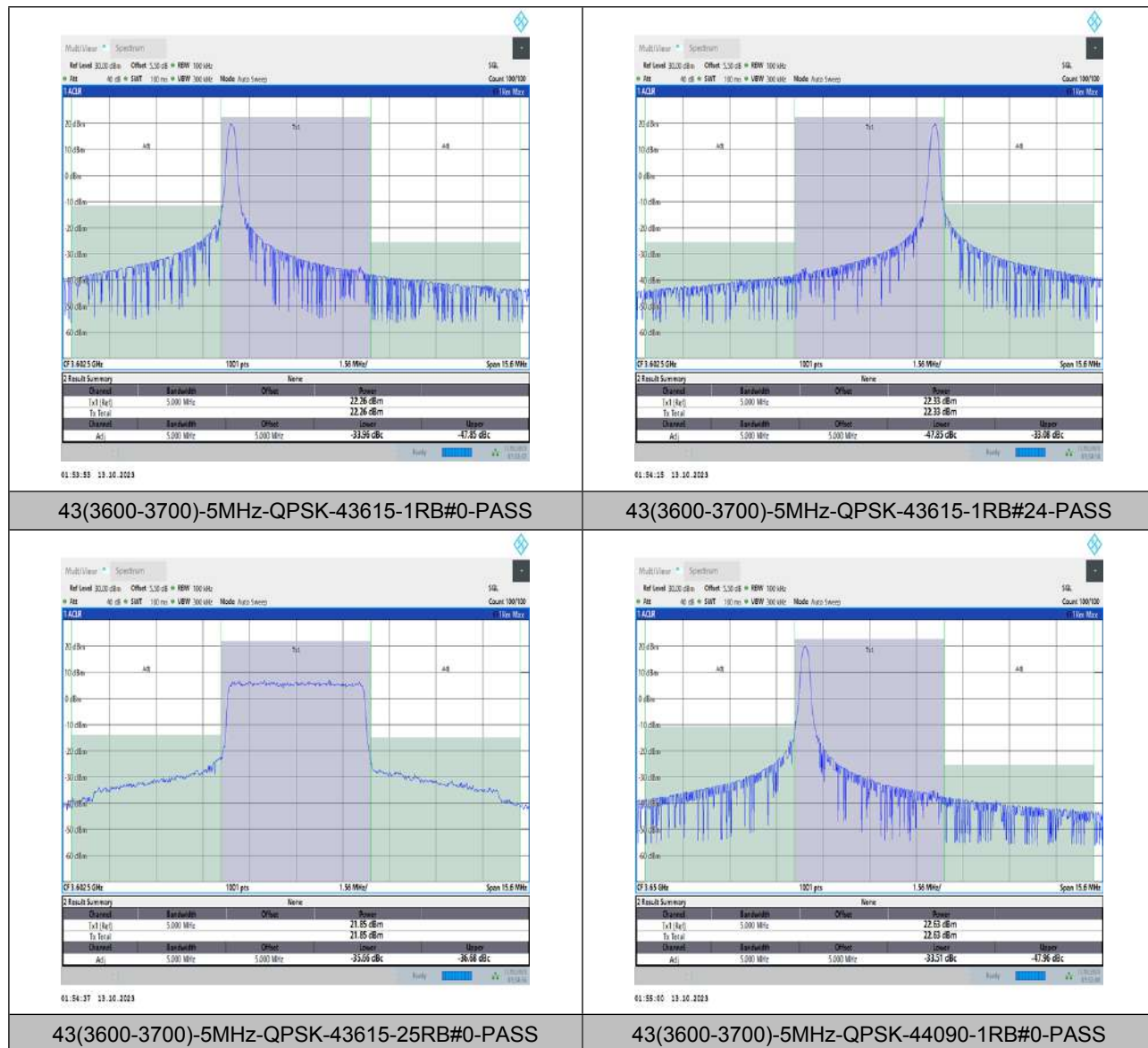
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Adjacent channel leakage ratio

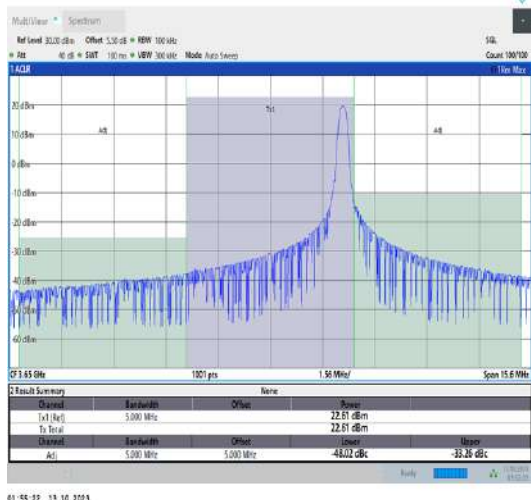
Test Graphs



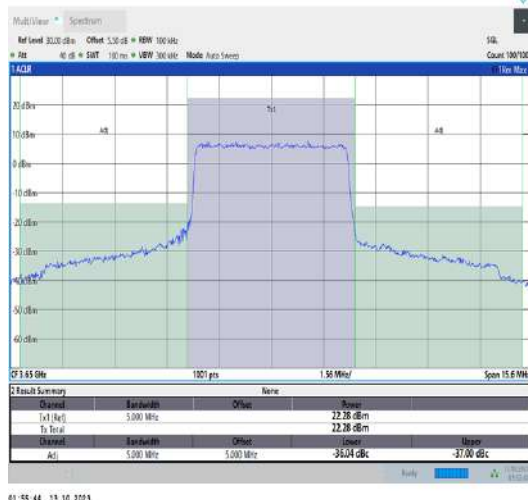
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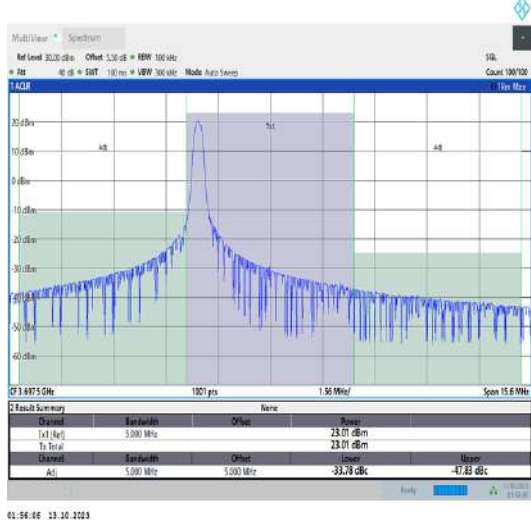
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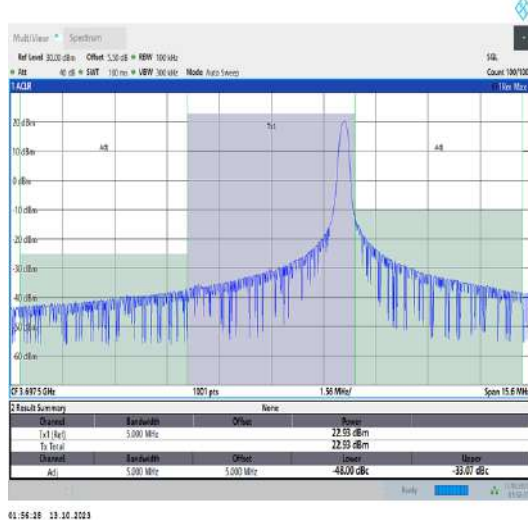
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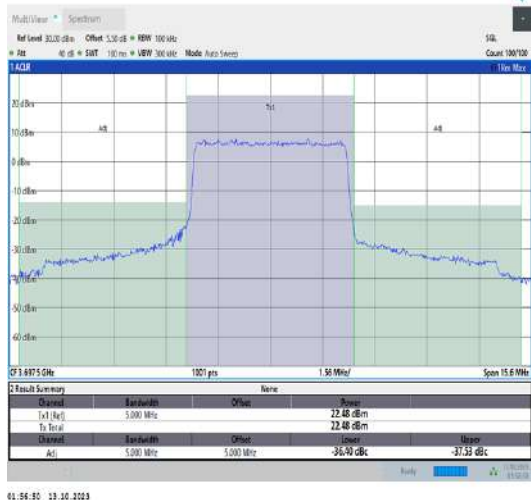
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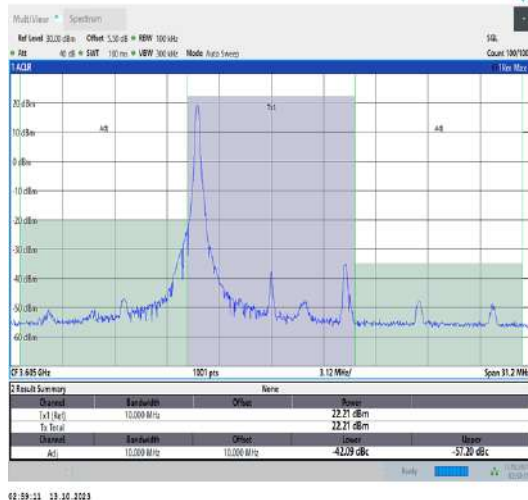
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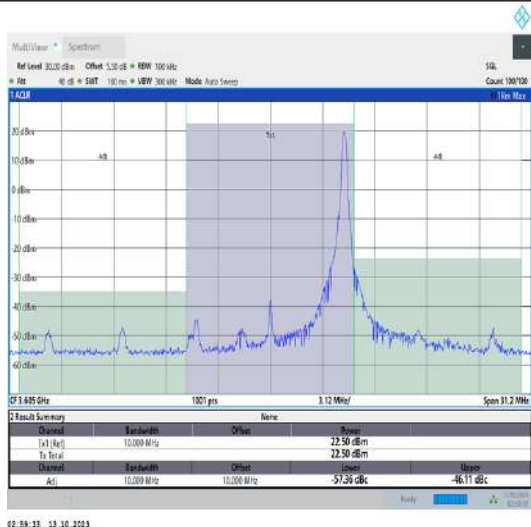
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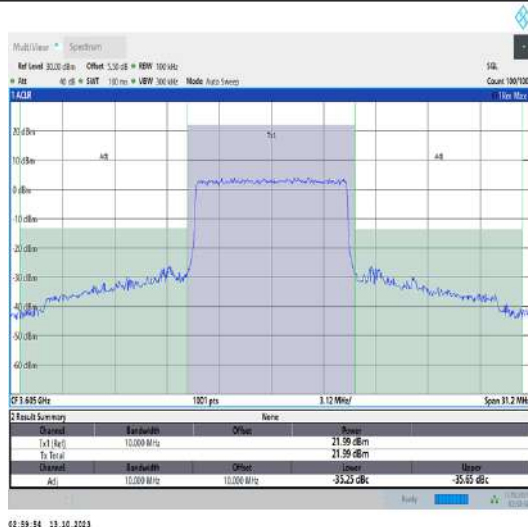
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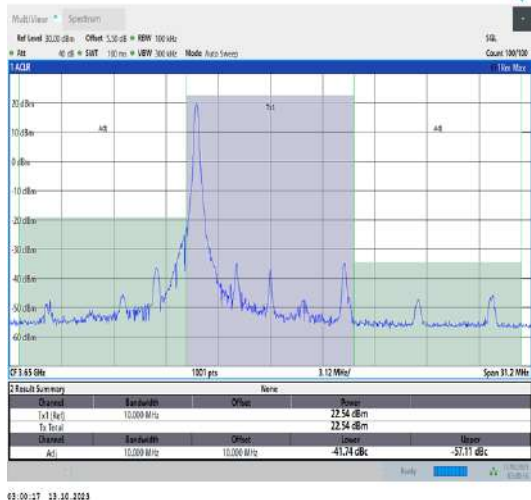
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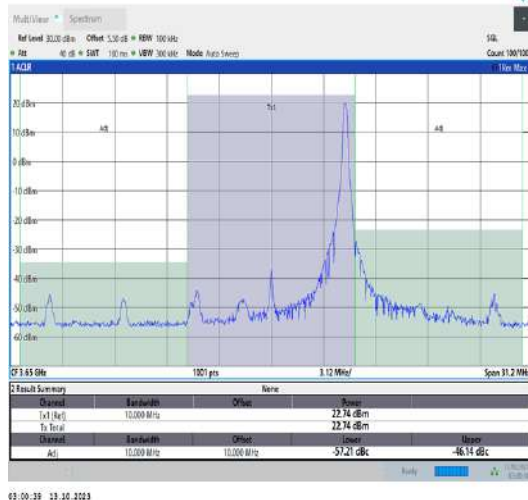
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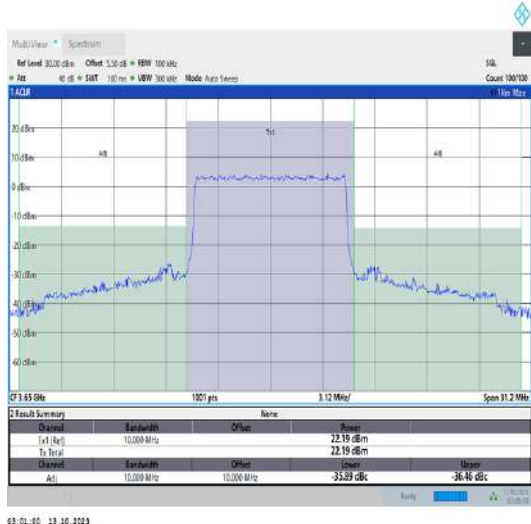
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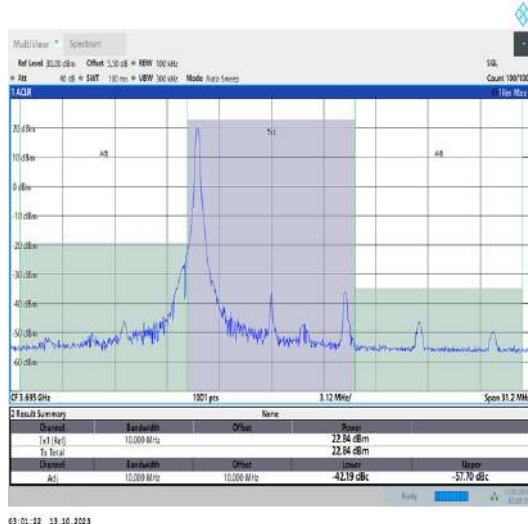
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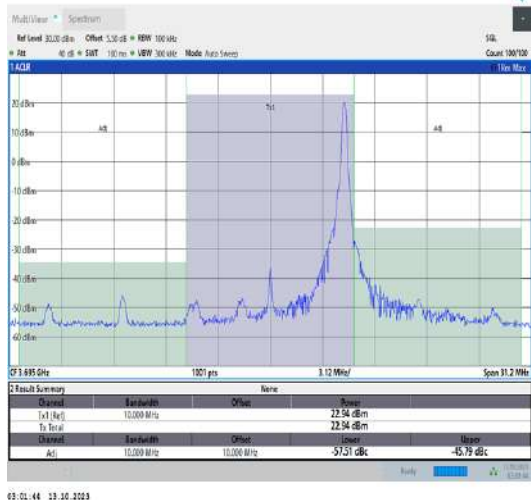
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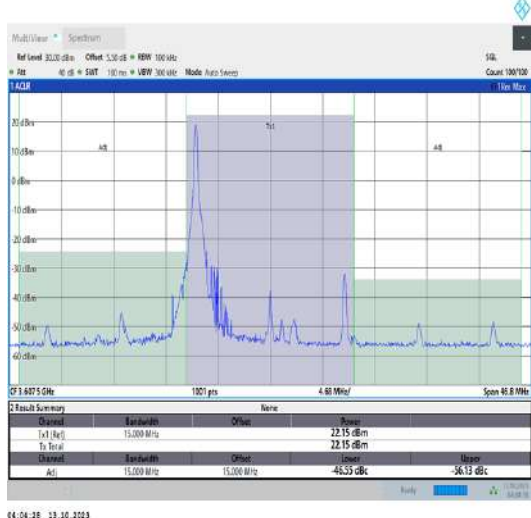
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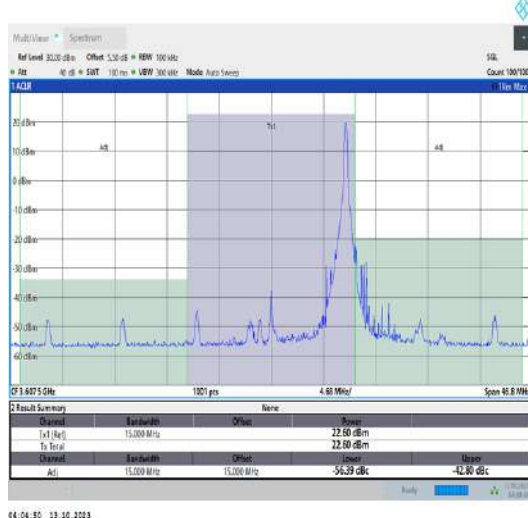
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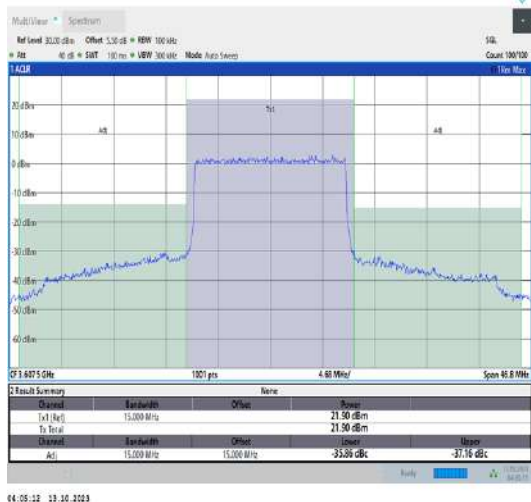
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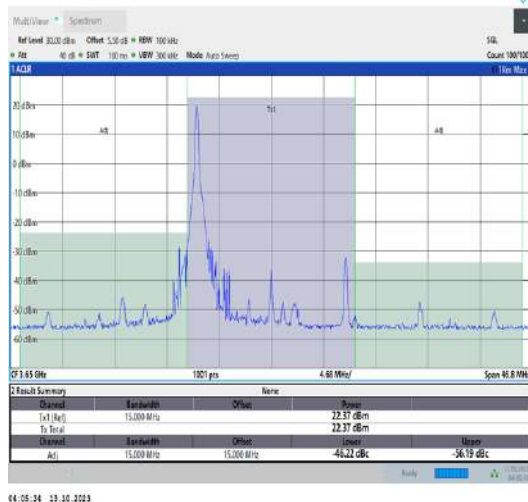
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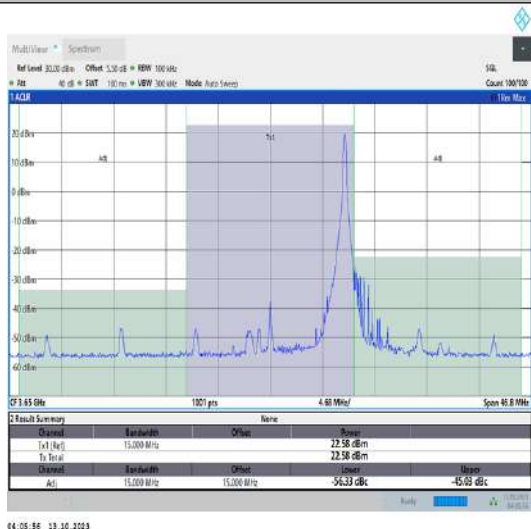
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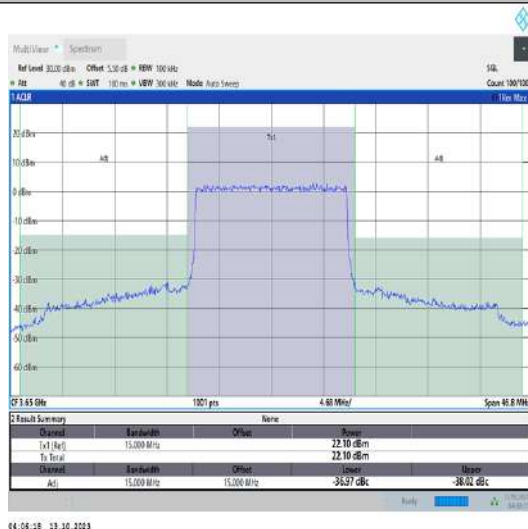
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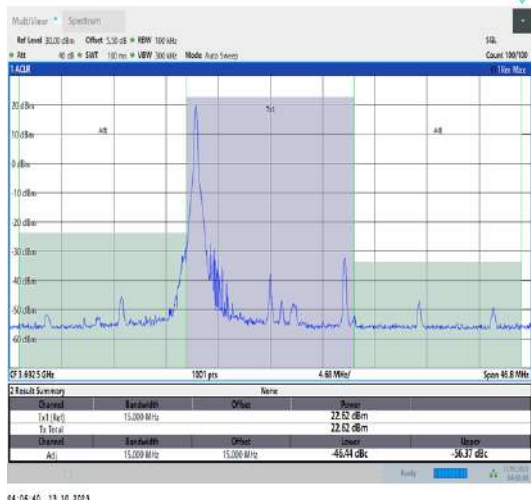
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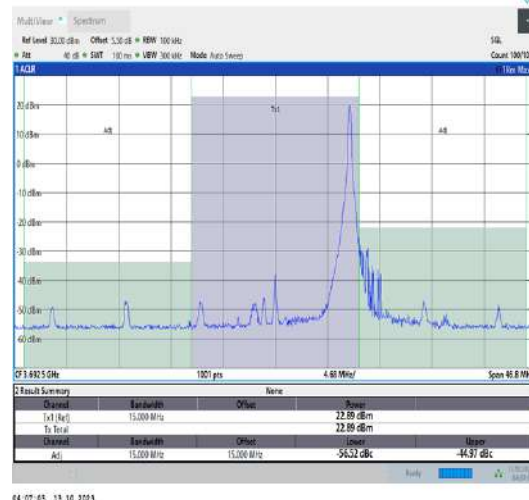
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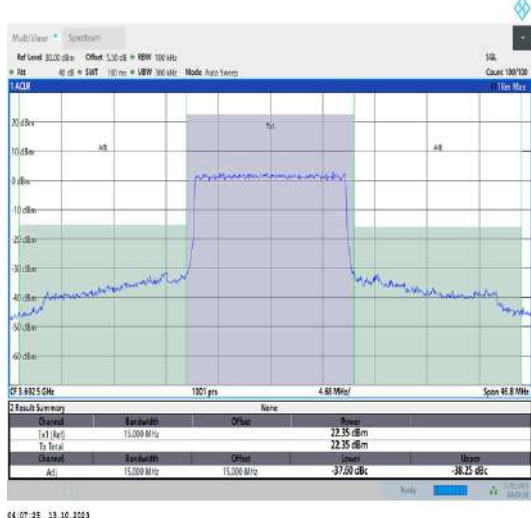
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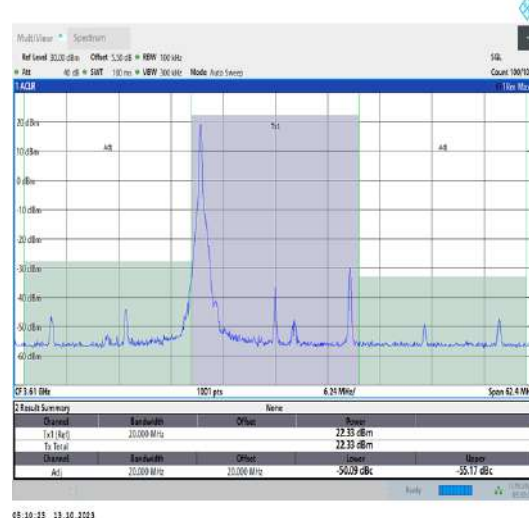
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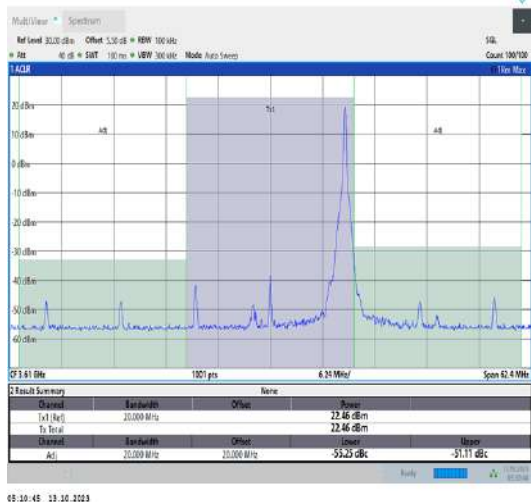
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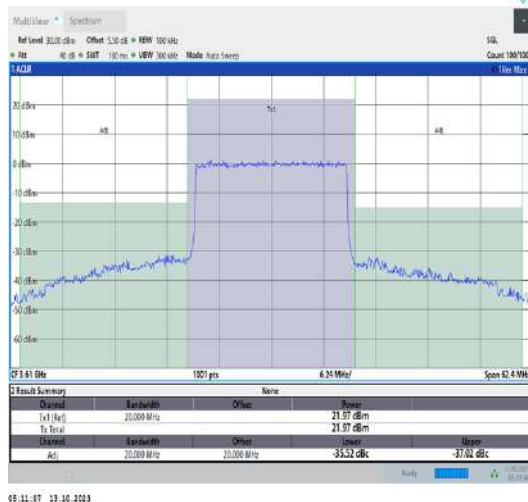
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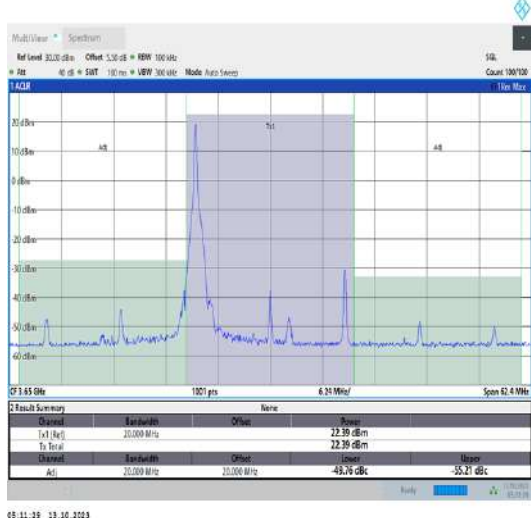
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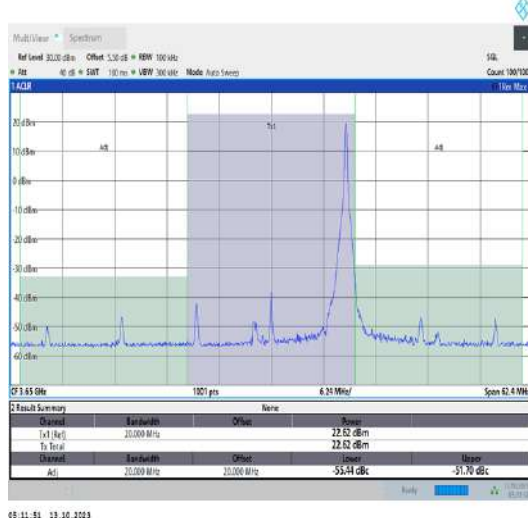
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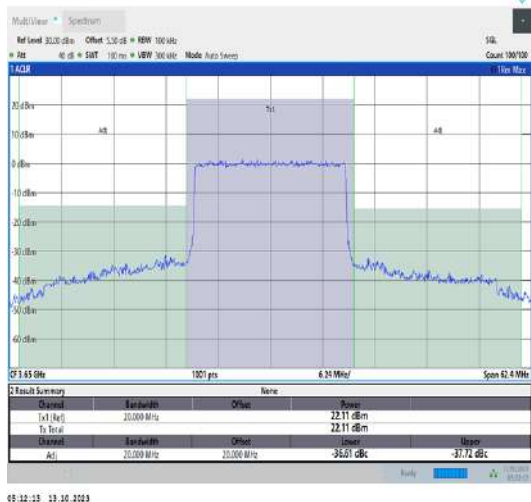
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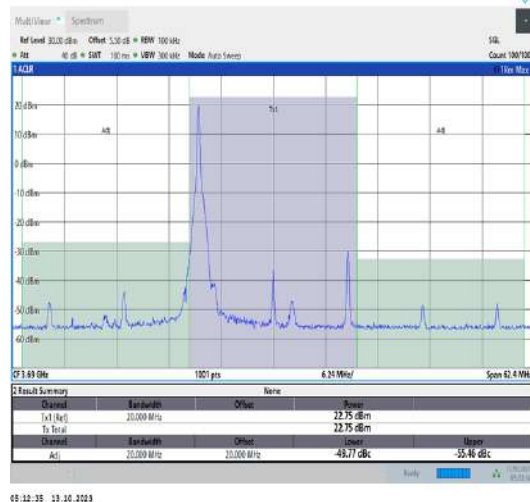
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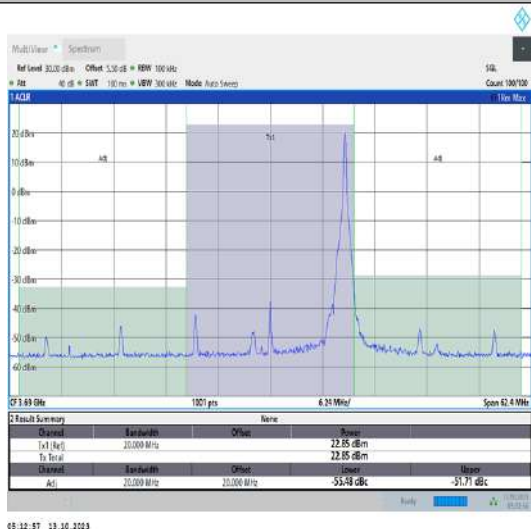
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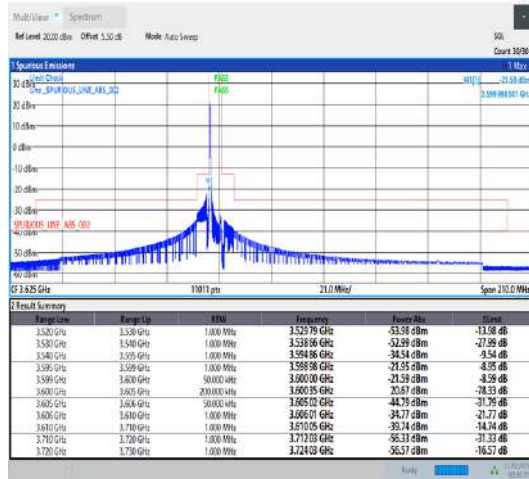
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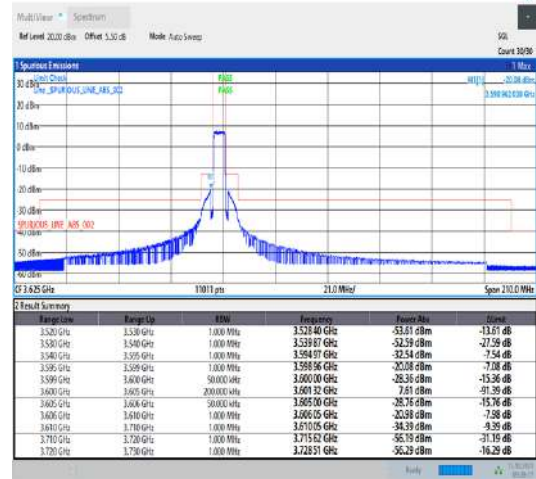
Band Edge

Test Graphs



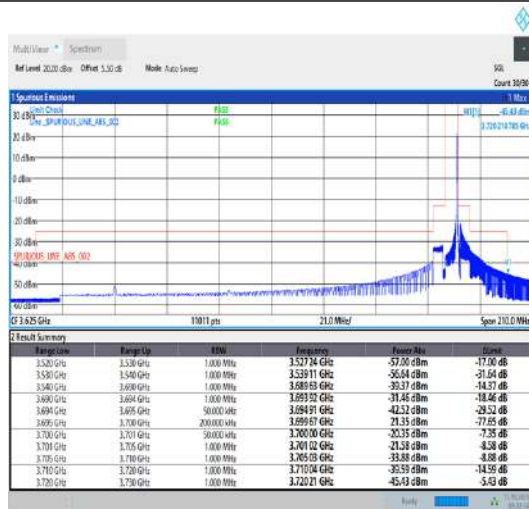
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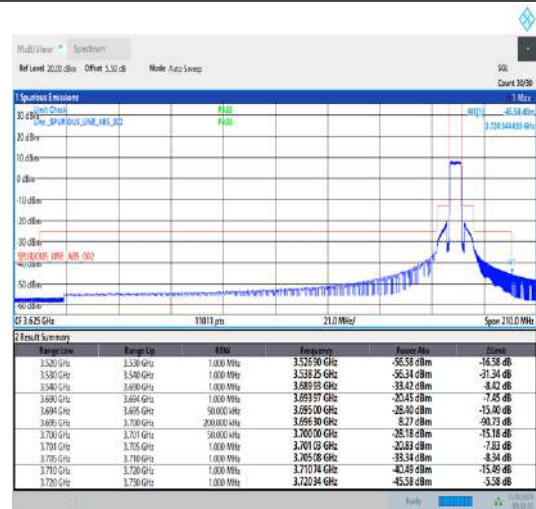
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Band43_5MHz_QPSK_44565_25RB#0



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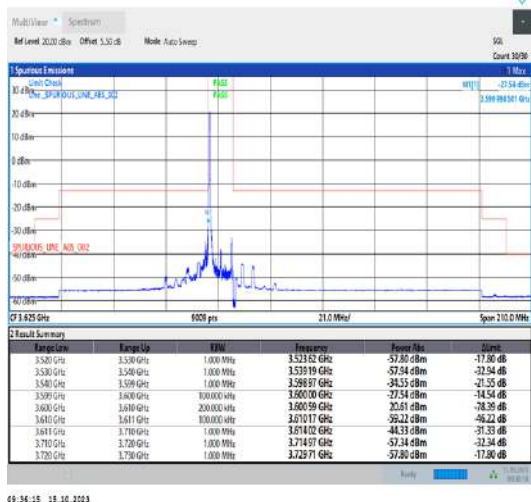
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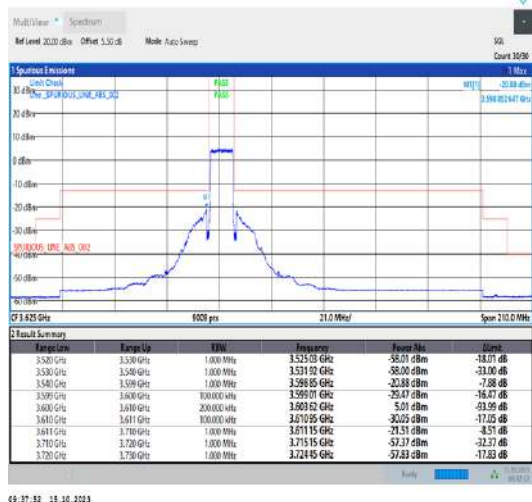
t (86-755) 26012053

sgs.china@sgs.com

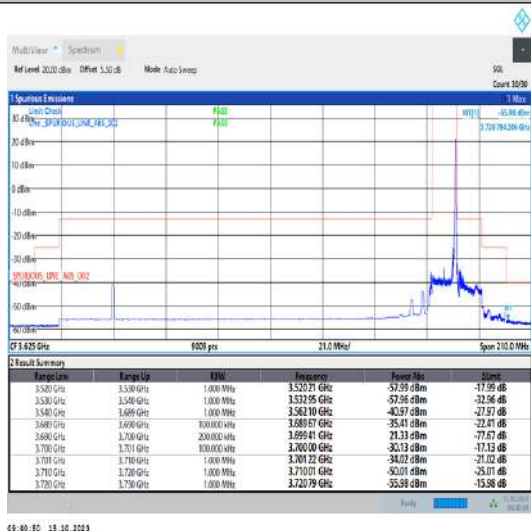
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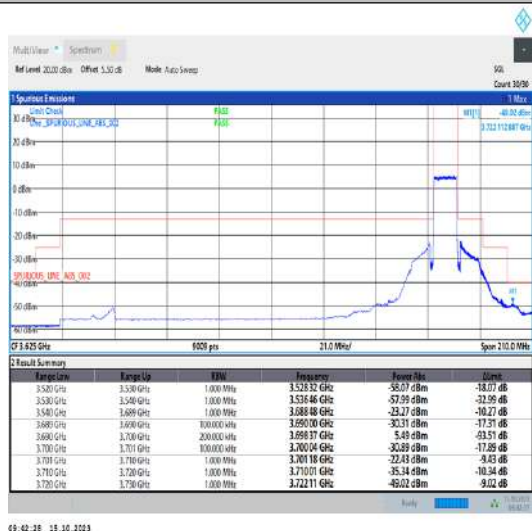
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Band43 10MHz QPSK 43640 50RB#0



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Band43 10MHz QPSK 44540 50RB#0



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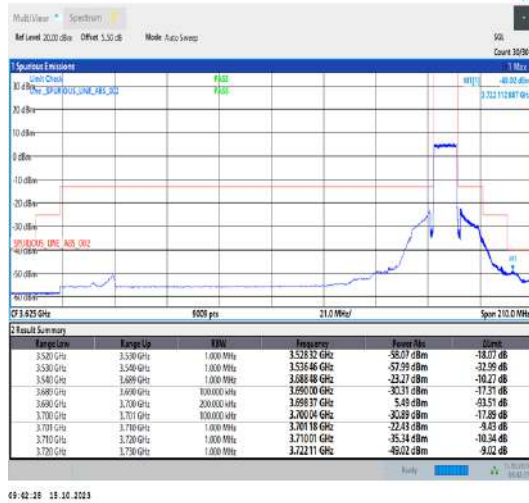
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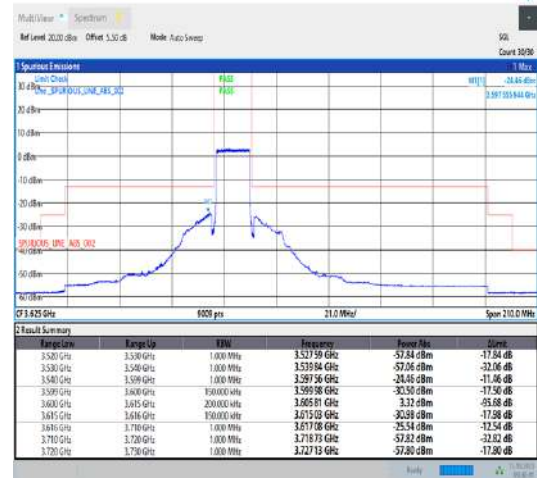
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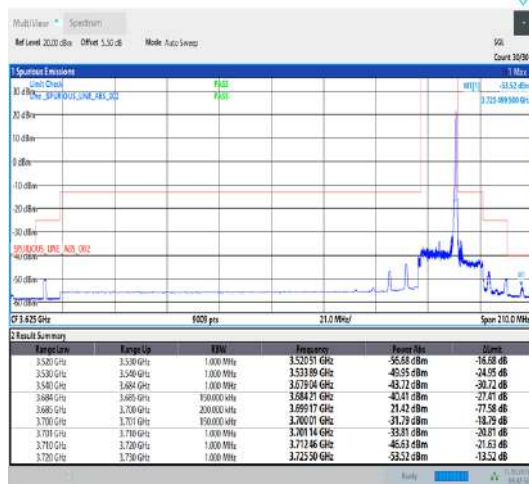
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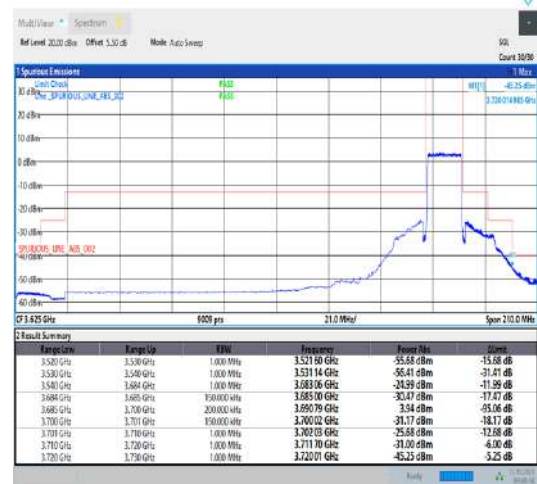
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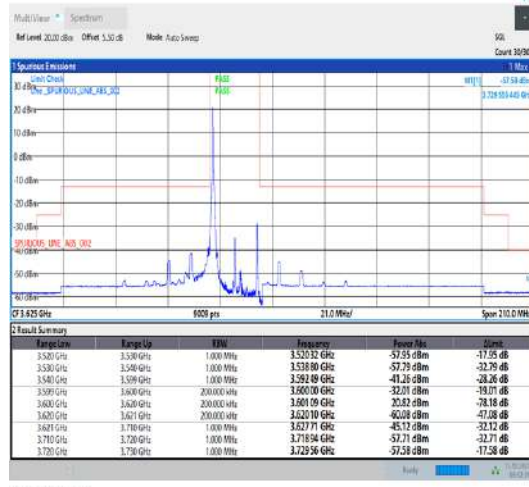
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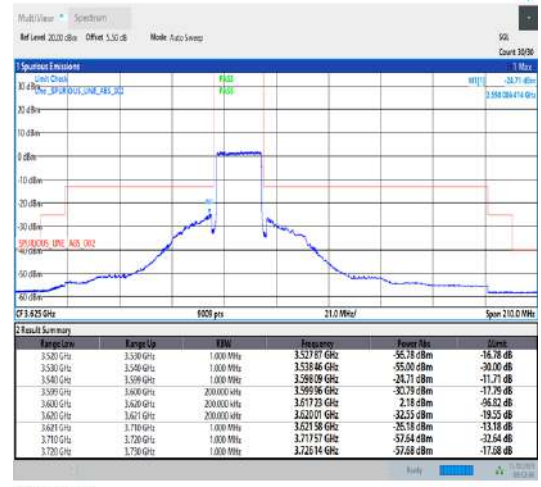
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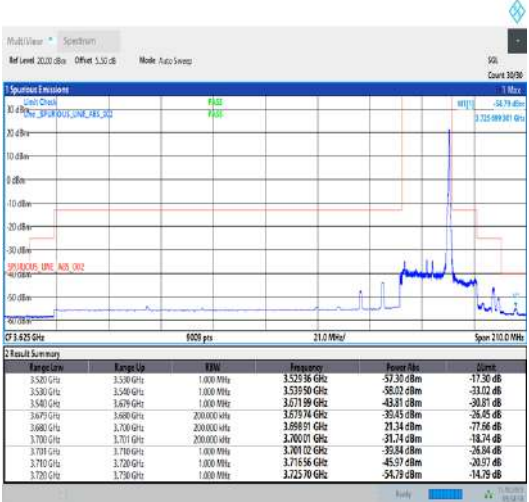
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Band43_20MHz_QPSK_44490_1RB#99



10-06-25 19-10-2023

Band43_20MHz_QPSK_44490_100RB#0



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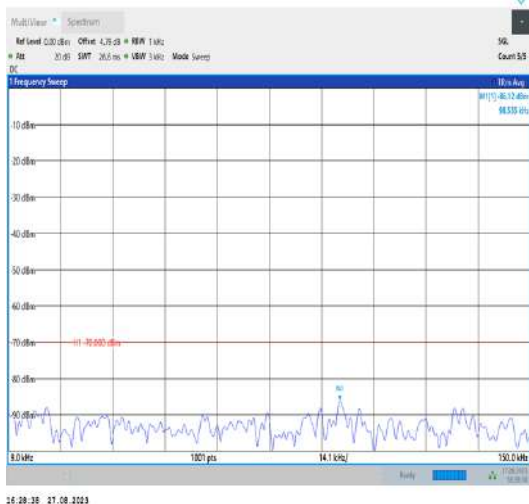
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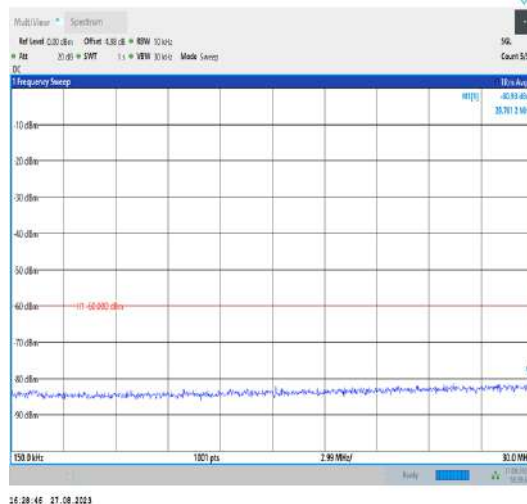


Conducted Spurious Emission

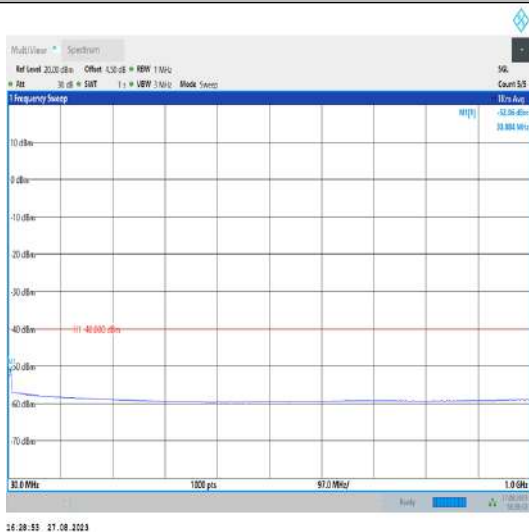
Test Graphs



Band43_20MHz_QPSK_43690_1RB#0_0.009~0.15_0.0
09~0.15



Band43_20MHz_QPSK_43690_1RB#0_0.15~30_0.15~30



Band43_20MHz_QPSK_43690_1RB#0_30~1000_30~1
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Band43_20MHz_QPSK_43690_1RB#0_1000~3000_1000
~3000



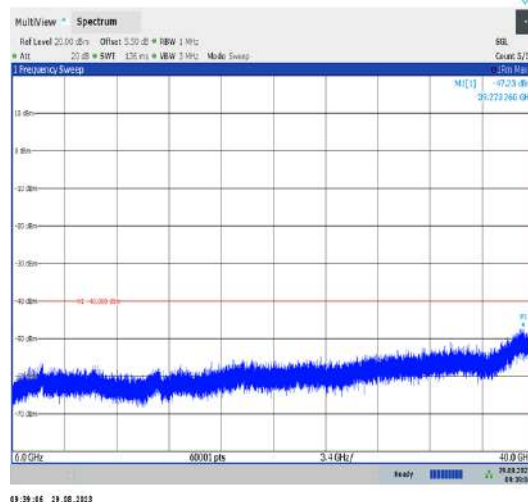
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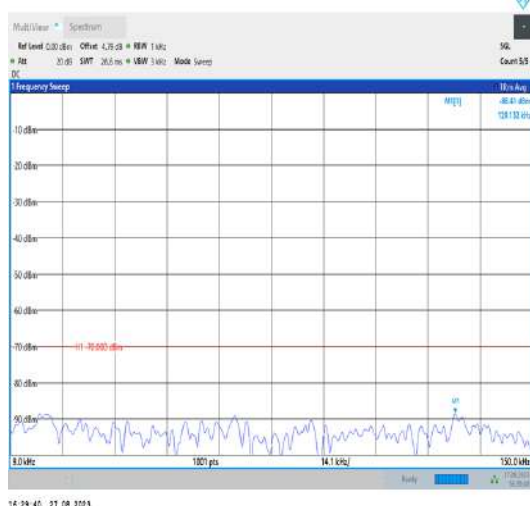
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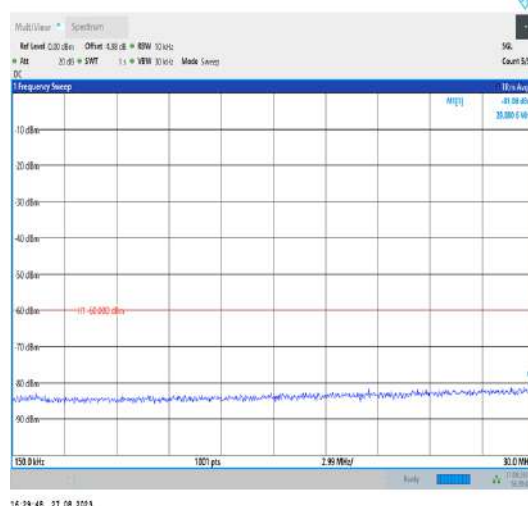
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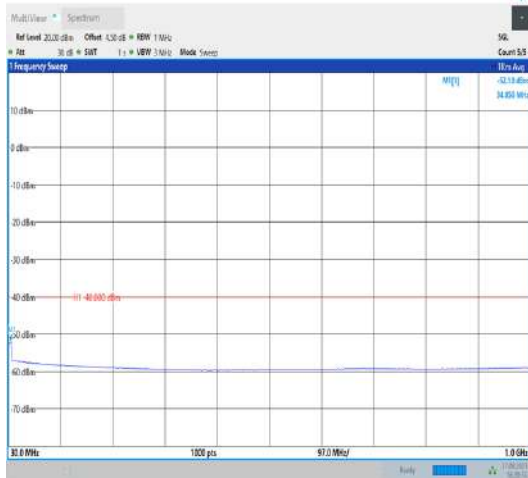


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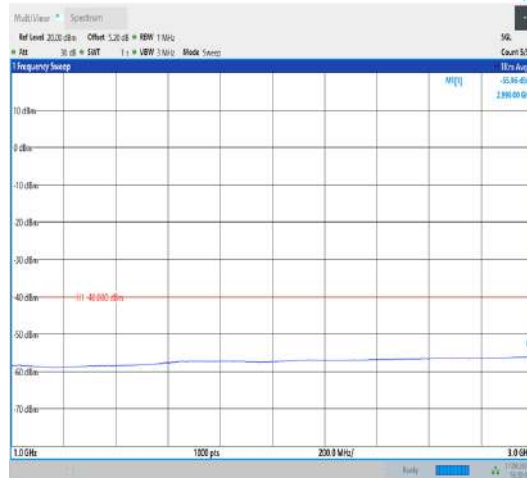
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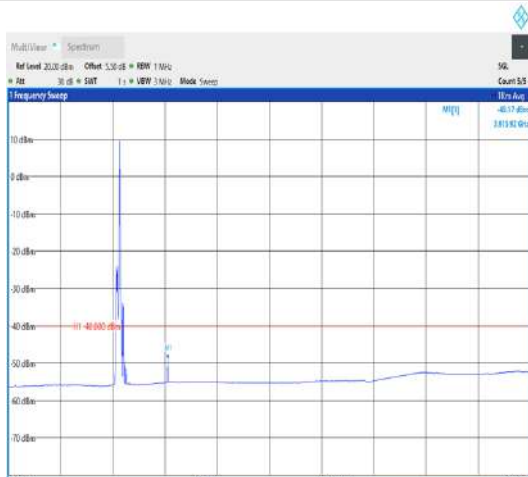
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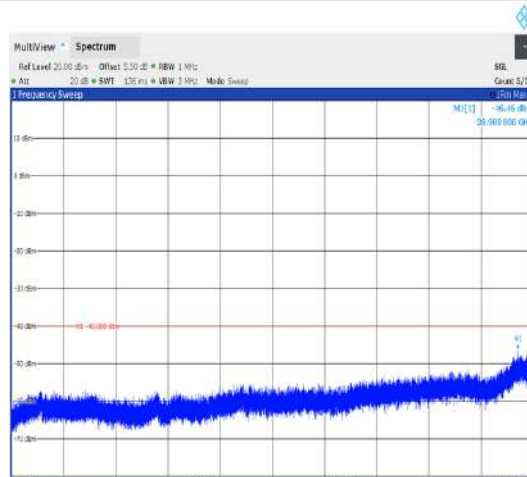
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09:29:16 29.08.2023

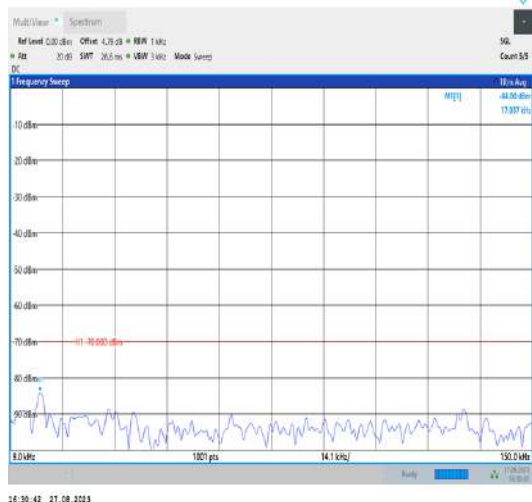
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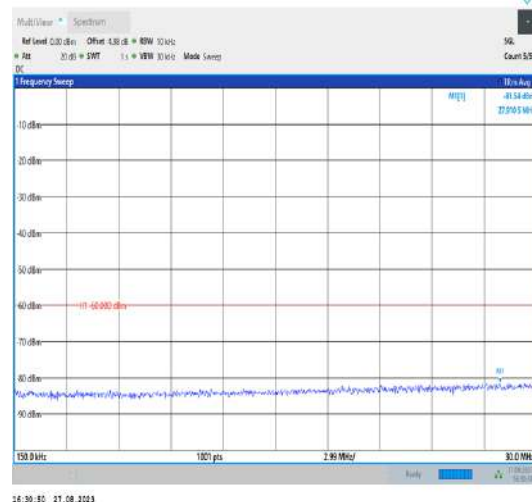
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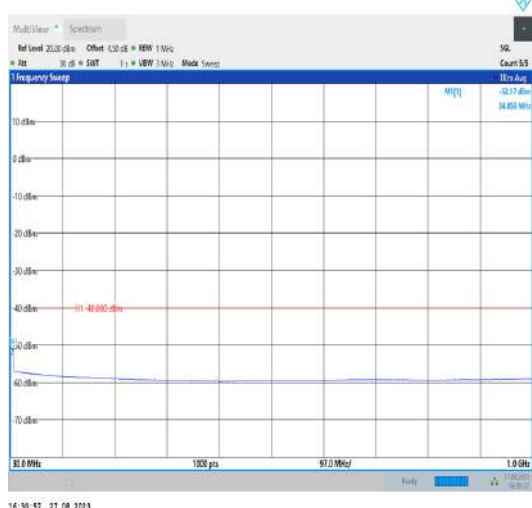
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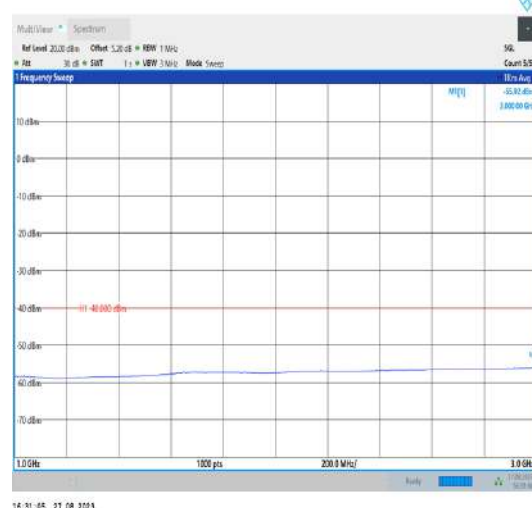
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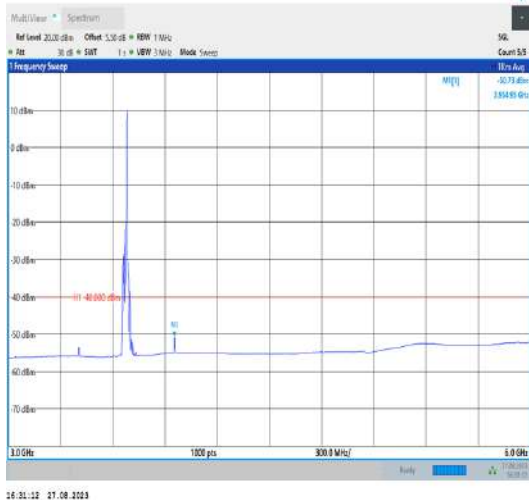


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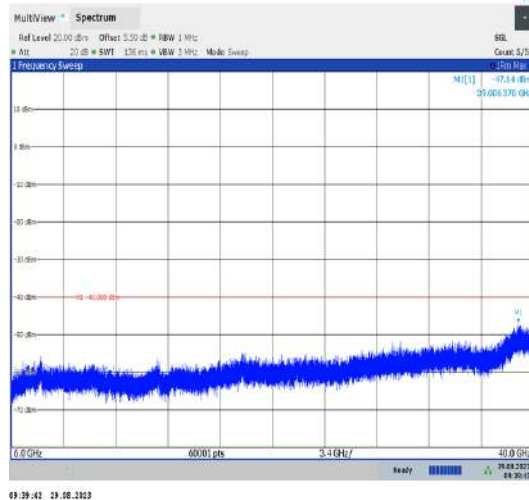
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Band43_20MHz_QPSK_44490_1RB#0_3000~6000_30
00~6000



Band43_20MHz_QPSK_44490_1RB#0_6000~40000_600
0~40000



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Field Strength of Spurious Radiation

Test Band = LTE Band43_TM1_20MHz

Test Channel = Low 3600-3700

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7202.1800	38.85	-43.60	35.77	-64.25	-40.00	24.25	244	150	Horizontal
2	8407.275	38.83	-41.40	36.60	-61.23	-40.00	21.23	157	251	Horizontal
3	9596.95	35.79	-39.22	37.43	-61.26	-40.00	21.26	156	360	Horizontal
4	10803.2700	31.56	-38.45	38.60	-63.55	-40.00	23.55	136	82	Horizontal
5	12827.3	29.67	-36.69	39.05	-63.23	-40.00	23.23	259	332	Horizontal
6	14404.3600	26.90	-35.04	41.06	-62.34	-40.00	22.34	157	240	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7202.1800	39.21	-43.60	35.77	-63.89	-40.00	23.89	200	357	Vertical
2	8410.725	38.77	-41.42	36.59	-61.31	-40.00	21.31	125	0	Vertical
3	10111	34.26	-38.76	38.26	-61.51	-40.00	21.51	159	0	Vertical
4	10803.2700	31.12	-38.45	38.60	-63.99	-40.00	23.99	176	52	Vertical
5	13429.325	28.84	-36.24	39.87	-62.79	-40.00	22.79	135	210	Vertical
6	14404.3600	27.47	-35.04	41.06	-61.77	-40.00	21.77	183	176	Vertical



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Test Band = LTE Band43_ TM1_20MHz

Test Channel = Mid 3600-3700

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7282.1800	38.79	-43.38	35.99	-63.86	-40.00	23.86	247	331	Horizontal
2	8416.475	39.09	-41.44	36.59	-61.02	-40.00	21.02	186	262	Horizontal
3	9412.95	36.07	-39.93	37.08	-62.03	-40.00	22.03	165	285	Horizontal
4	10923.2700	30.31	-37.76	38.66	-64.05	-40.00	24.05	192	240	Horizontal
5	13333.875	28.71	-36.70	39.70	-63.55	-40.00	23.55	145	196	Horizontal
6	14564.3600	27.66	-34.95	41.13	-61.43	-40.00	21.43	163	228	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7282.1800	39.04	-43.38	35.99	-63.61	-40.00	23.61	211	246	Vertical
2	8404.975	39.26	-41.39	36.60	-60.79	-40.00	20.79	153	223	Vertical
3	10099.5	33.90	-38.70	38.25	-61.81	-40.00	21.81	256	86	Vertical
4	10923.2700	30.20	-37.76	38.66	-64.16	-40.00	24.16	186	280	Vertical
5	14564.3600	27.49	-34.95	41.13	-61.60	-40.00	21.60	192	154	Vertical
6	15858.125	27.99	-33.68	39.50	-61.45	-40.00	21.45	175	291	Vertical



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Test Band = LTE Band43_ TM1_20MHz

Test Channel = High 3600-3700

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7362.1800	39.33	-42.99	36.22	-62.71	-40.00	22.71	248	228	Horizontal
2	8407.85	39.30	-41.40	36.60	-60.77	-40.00	20.77	175	150	Horizontal
3	9562.45	35.70	-39.49	37.37	-61.68	-40.00	21.68	153	127	Horizontal
4	11043.2700	29.15	-37.66	38.70	-65.07	-40.00	25.07	263	127	Horizontal
5	14724.3600	25.86	-34.82	41.19	-63.03	-40.00	23.03	256	331	Horizontal
6	16515.925	30.11	-34.32	40.80	-58.67	-40.00	18.67	129	262	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7362.1800	39.30	-42.99	36.22	-62.74	-40.00	22.74	248	9	Vertical
2	8409	39.12	-41.41	36.60	-60.95	-40.00	20.95	179	199	Vertical
3	10109.85	34.00	-38.76	38.25	-61.76	-40.00	21.76	186	221	Vertical
4	11043.2700	29.42	-37.66	38.70	-64.80	-40.00	24.80	256	278	Vertical
5	12817.525	29.46	-36.66	39.05	-63.42	-40.00	23.42	166	96	Vertical
6	14724.3600	25.80	-34.82	41.19	-63.09	-40.00	23.09	129	289	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band43	20MHz	QPSK	44090	100RB#0	VN	NT	-0.60	-0.000163	PASS
Band43	20MHz	QPSK	44090	100RB#0	VL	NT	-1.20	-0.000562	PASS
Band43	20MHz	QPSK	44090	100RB#0	VH	NT	3.10	0.000235	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band43	20MHz	QPSK	44090	100RB#0	NV	-30	-3.20	-0.001253	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	-20	-0.60	-0.000127	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	-10	-4.20	-0.001126	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	0	3.50	0.000635	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	10	-0.80	-0.000161	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	20	-2.50	-0.000236	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	30	0.50	0.000128	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	40	1.60	0.000336	PASS
Band43	20MHz	QPSK	44090	100RB#0	NV	50	3.50	0.000237	PASS

---End of Attachment---



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