Appendix B

E-UTRA Band 38

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.99	22.99	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.16	23.16	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.01	23.01	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.05	22.05	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.15	22.15	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.19	22.19	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.12	22.12	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.06	23.06	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	**23.21**	**23.21**	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.11	23.11	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.19	22.19	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.29	22.29	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.18	22.18	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.21	22.21	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.05	23.05	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.08	23.08	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.02	23.02	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.27	22.27	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.32	22.32	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.21	22.21	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.26	22.26	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.05	22.05	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.15	22.15	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.07	22.07	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.13	21.13	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.16	21.16	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.08	21.08	33.00	PASS

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Band38	5MHz	16QAM	37775	25RB#0	21.07	21.07	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.17	22.17	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.22	22.22	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.12	22.12	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.09	21.09	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.11	21.11	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.17	21.17	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.19	21.19	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.15	22.15	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.22	22.22	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.21	22.21	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.17	21.17	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.23	21.23	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.04	21.04	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.21	21.21	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.16	23.16	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.08	23.08	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.05	23.05	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.17	22.17	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.18	22.18	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.29	22.29	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.09	22.09	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	**23.24**	**23.24**	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.1	23.1	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.21	23.21	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.32	22.32	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.25	22.25	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.28	22.28	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.22	22.22	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.04	23.04	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.1	23.1	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.16	23.16	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.3	22.3	33.00	PASS

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Band38	10MHz	QPSK	38200	25RB#25	22.25	22.25	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.24	22.24	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.21	22.21	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.15	22.15	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.09	22.09	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.18	22.18	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.21	21.21	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.21	21.21	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.32	21.32	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.16	21.16	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.32	22.32	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.18	22.18	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.19	22.19	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.24	21.24	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.23	21.23	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.23	21.23	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.24	21.24	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.23	22.23	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.19	22.19	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.33	22.33	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.29	21.29	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.26	21.26	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.22	21.22	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.26	21.26	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.12	23.12	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.15	23.15	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.12	23.12	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.16	22.16	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.24	22.24	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.2	22.2	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.14	22.14	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.15	23.15	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	**23.2**	**23.2**	33.00	PASS

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Band38	15MHz	QPSK	38000	1RB#38	23.15	23.15	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.2	22.2	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.24	22.24	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.18	22.18	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.09	22.09	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.12	23.12	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.13	23.13	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.16	23.16	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.25	22.25	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.28	22.28	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.22	22.22	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.2	22.2	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.1	22.1	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.21	22.21	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.14	22.14	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.11	21.11	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.12	21.12	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.15	21.15	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.1	21.1	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.19	22.19	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.16	22.16	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.18	22.18	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.12	21.12	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.19	21.19	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.09	21.09	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.22	21.22	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.17	22.17	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.25	22.25	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.11	22.11	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.21	21.21	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	21.16	21.16	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.09	21.09	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.17	21.17	33.00	PASS

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Band38	20MHz	QPSK	37850	1RB#99	22.94	22.94	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.22	23.22	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.95	22.95	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.98	21.98	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.07	22.07	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.18	22.18	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.07	22.07	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.97	22.97	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	**23.24**	**23.24**	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.86	22.86	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.09	22.09	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.13	22.13	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.06	22.06	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.12	22.12	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.98	22.98	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.17	23.17	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.94	22.94	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	**22.27**	**22.27**	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.08	22.08	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.06	22.06	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.18	22.18	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.98	21.98	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.2	22.2	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.02	22.02	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.03	21.03	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.11	21.11	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.11	21.11	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.09	21.09	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.04	22.04	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.33	22.33	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.99	21.99	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.09	21.09	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.2	21.2	33.00	PASS

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Band38	20MHz	16QAM	38000	50RB#25	21.08	21.08	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.19	21.19	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.1	22.1	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.24	22.24	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.03	22.03	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.2	21.2	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.2	21.2	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.12	21.12	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.14	21.14	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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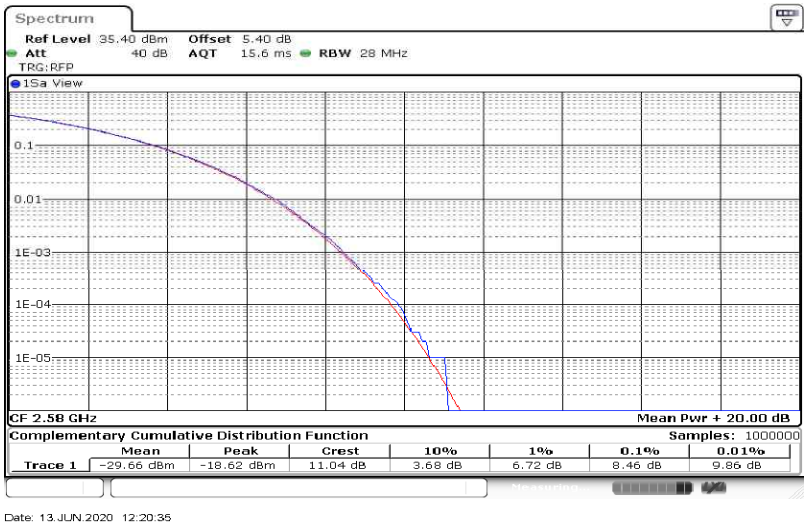
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.46	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.81	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.93	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.39	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.54	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.83	13	PASS

2.2. Test Plots

Band38-20MHz-QPSK-37850-100RB#0



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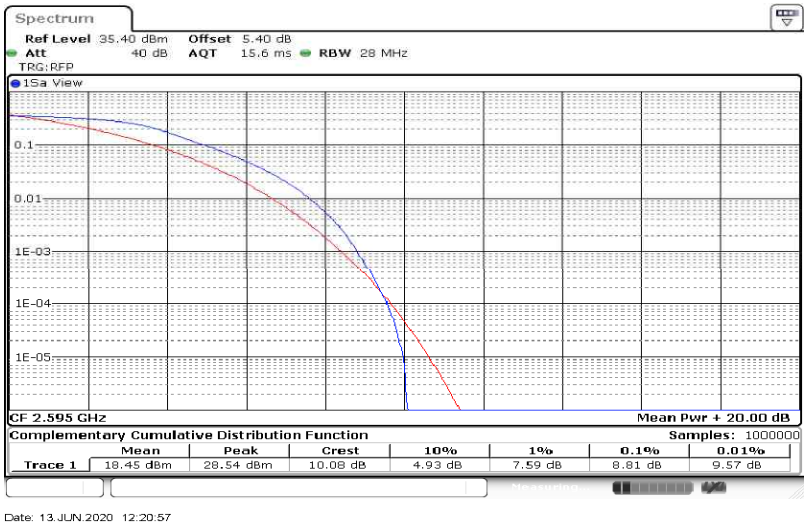
Band38-20MHz-QPSK-38000-100RB#0



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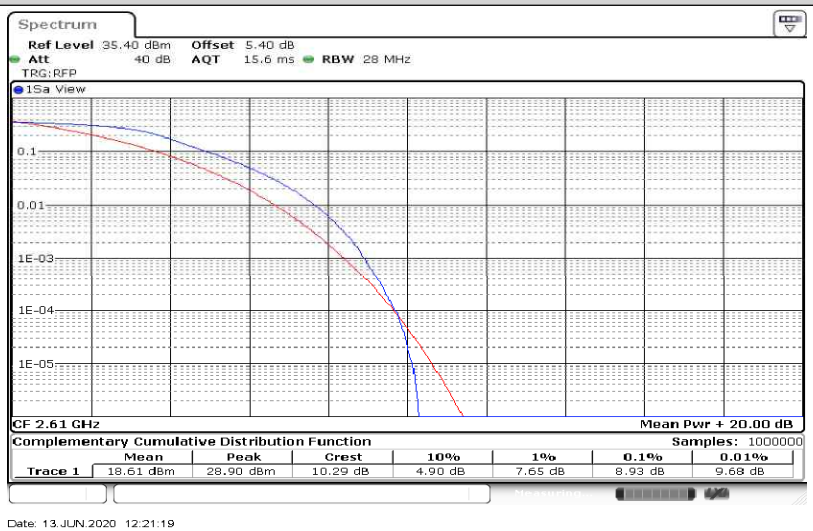
Band38-20MHz-QPSK-38150-100RB#0



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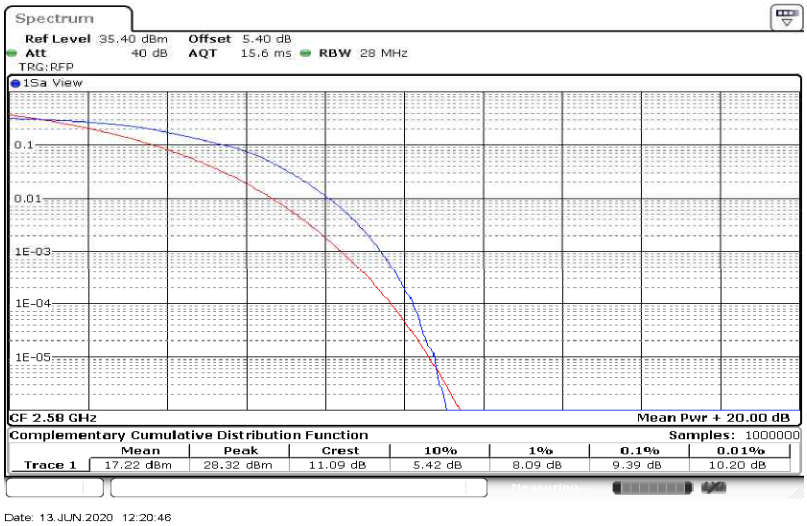
Band38-20MHz-16QAM-37850-100RB#0



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Band38-20MHz-16QAM-38000-100RB#0

Date: 13.JUN.2020 12:21:08

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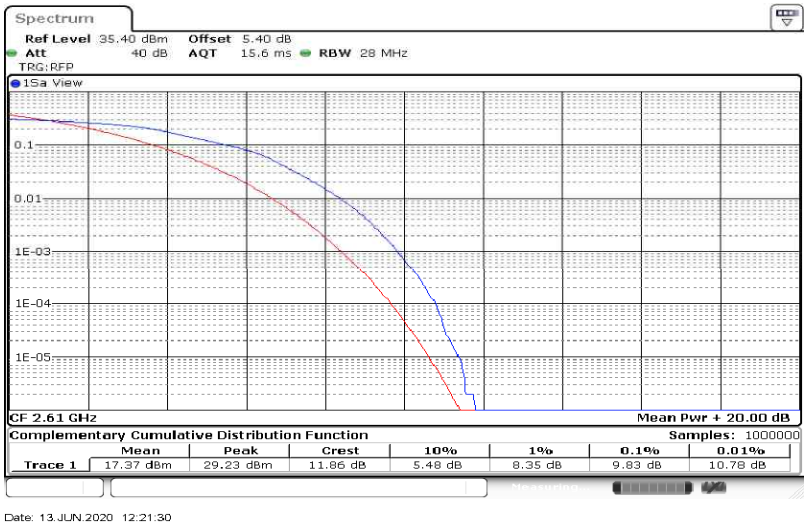
Band38-20MHz-16QAM-38150-100RB#0



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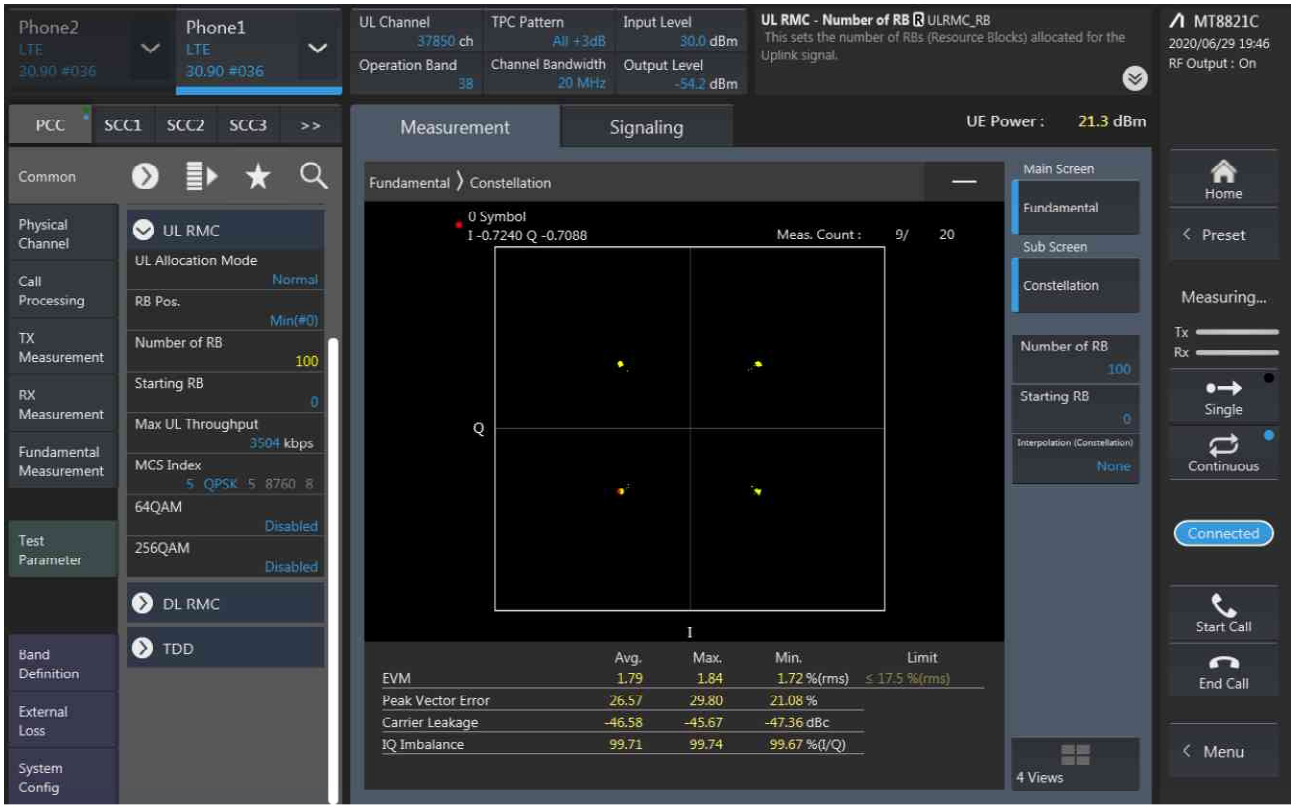
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1.Test Channel = MCH



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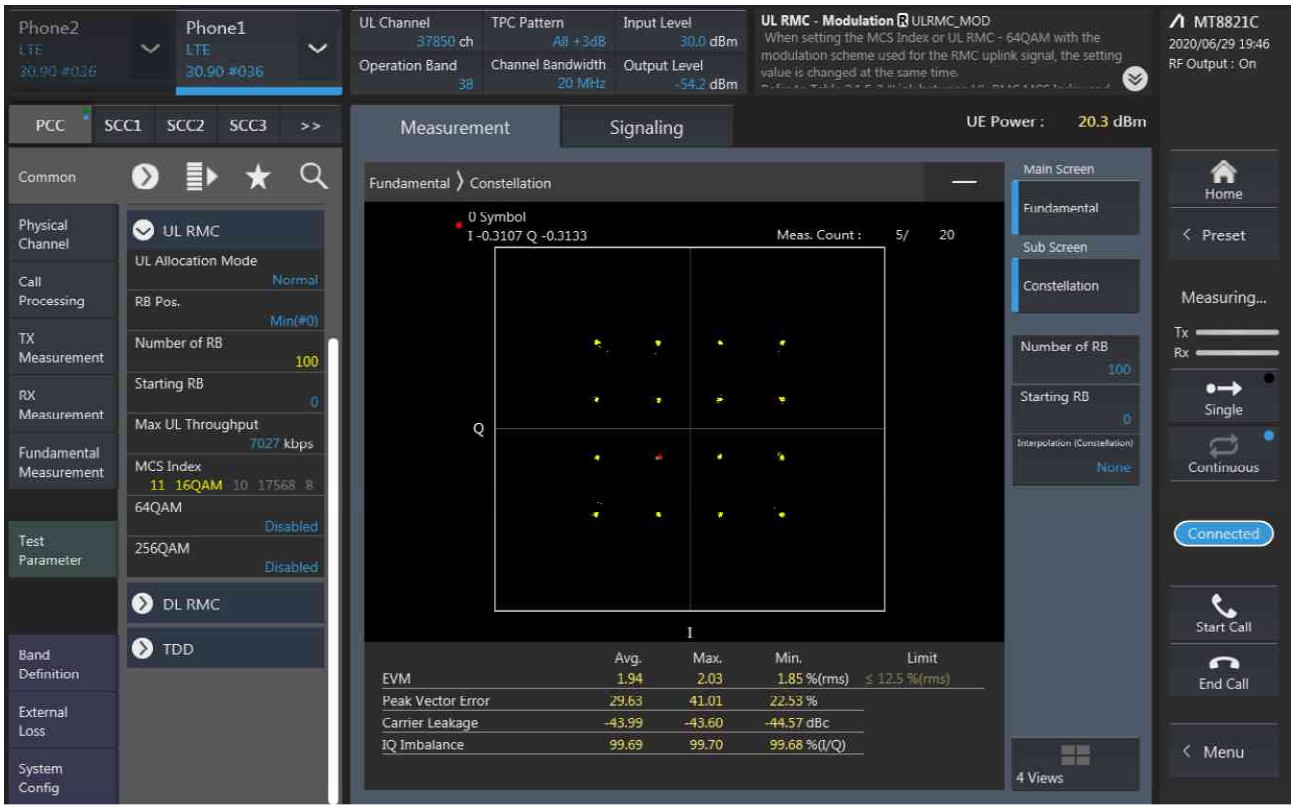
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.466	4.780	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.466	4.900	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.486	4.780	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.870	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.720	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.720	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.971	9.420	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.360	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.931	9.340	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.931	9.300	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.540	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.971	9.420	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.636	14.460	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.457	14.820	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.636	14.490	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.606	14.490	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.636	14.730	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.606	14.550	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.142	18.960	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.862	19.120	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.142	18.800	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.182	19.160	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.822	18.640	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.822	18.640	PASS

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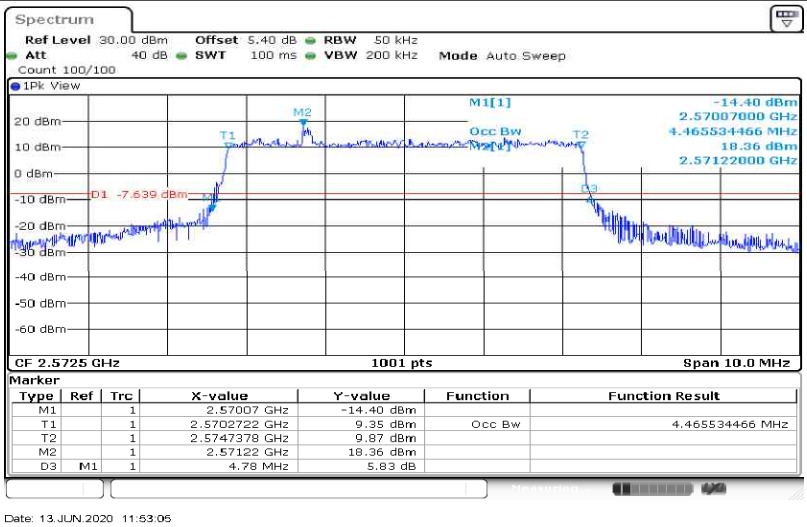
4.2. Test Plots

Band38-5MHz-QPSK-37775-25RB#0-4.466



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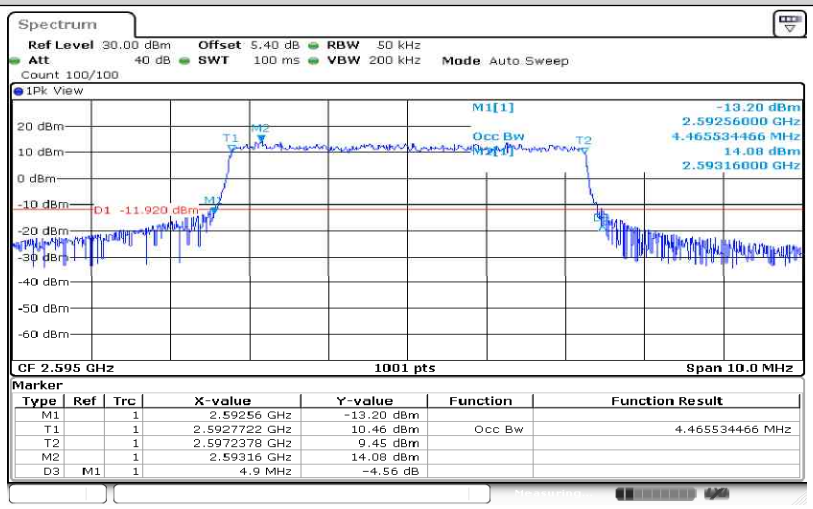
Band38-5MHz-QPSK-38000-25RB#0-4.466



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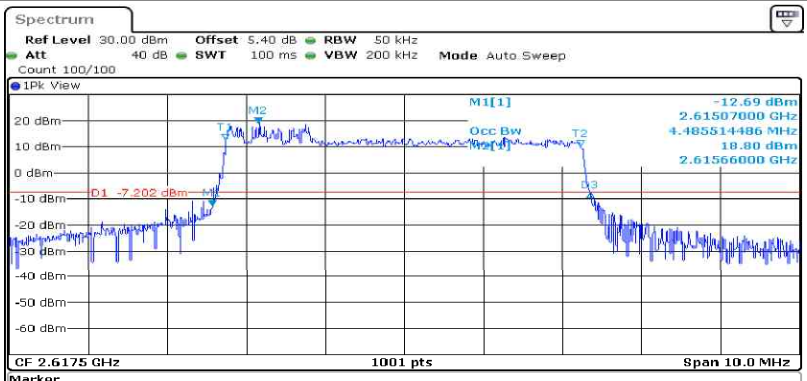
Band38-5MHz-QPSK-38225-25RB#0-4.486

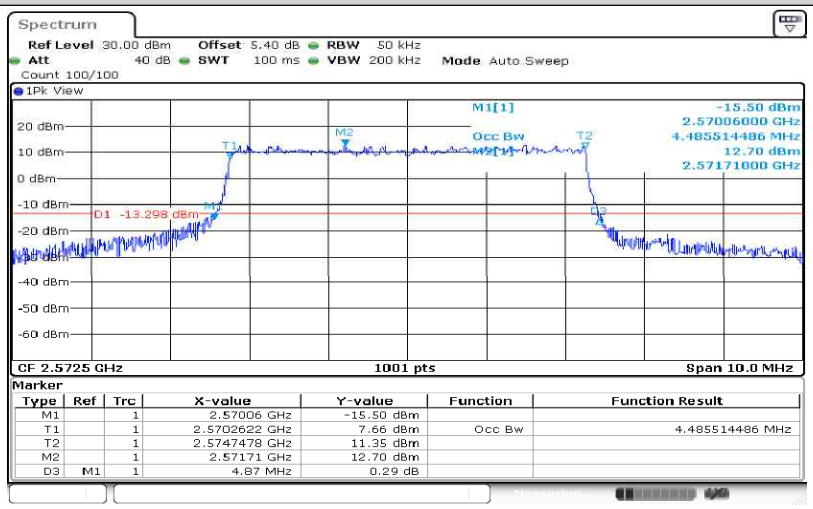


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61507 GHz	-12.69 dBm		
T1		1	2.6152423 GHz	12.48 dBm	Occ Bw	4.485514486 MHz
T2		1	2.6197278 GHz	9.91 dBm		
M2		1	2.61566 GHz	18.80 dBm		
D3	M1	1	4.78 MHz	5.40 dB		

Date: 13.JUN.2020 11:54:24

Band38-5MHz-16QAM-37775-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57006 GHz	-15.50 dBm		
T1		1	2.5702622 GHz	7.66 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5747478 GHz	11.35 dBm		
M2		1	2.57171 GHz	12.70 dBm		
D3	M1	1	4.87 MHz	0.29 dB		

Date: 13.JUN.2020 11:53:25

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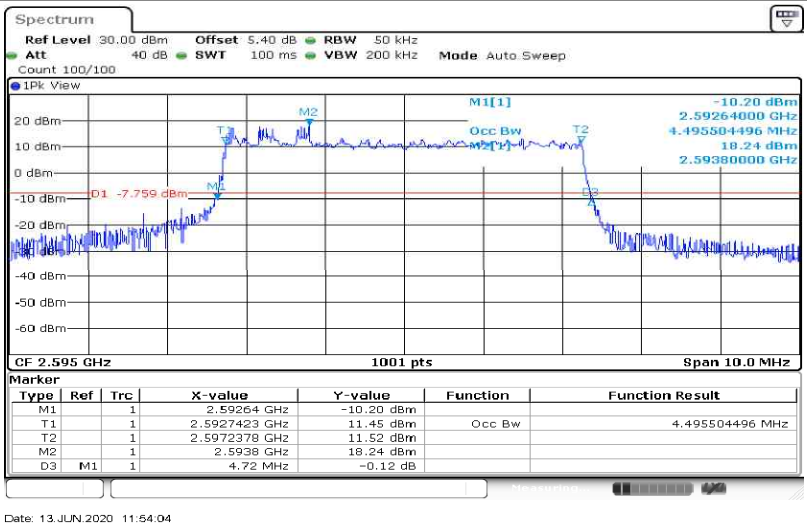
Band38-5MHz-16QAM-38000-25RB#0-4.496



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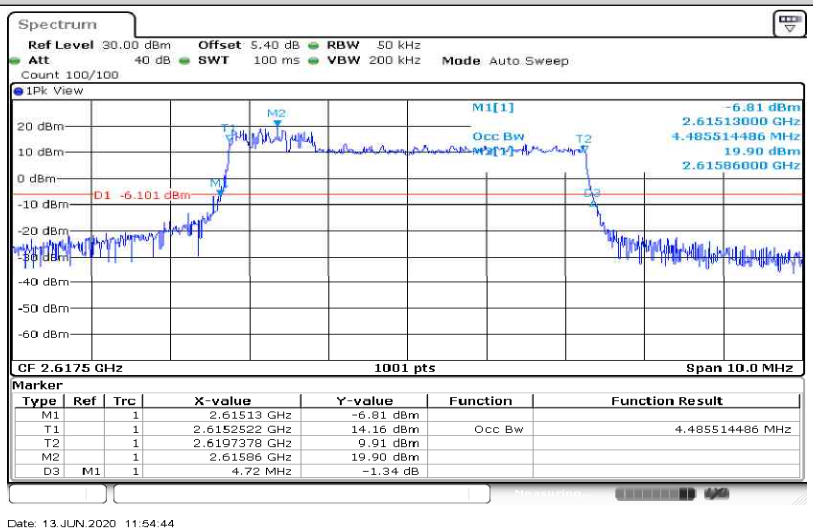
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59264 GHz	-10.20 dBm		
T1		1	2.5927423 GHz	11.45 dBm	Occ Bw	4.495504496 MHz
T2		1	2.5972378 GHz	11.52 dBm		
M2		1	2.5938 GHz	18.24 dBm		
D3	M1	1	4.72 MHz	-0.12 dB		

Date: 13.JUN.2020 11:54:04

Band38-5MHz-16QAM-38225-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61513 GHz	-6.81 dBm		
T1		1	2.6152522 GHz	14.16 dBm	Occ Bw	4.485514486 MHz
T2		1	2.6197378 GHz	9.91 dBm		
M2		1	2.61586 GHz	19.90 dBm		
D3	M1	1	4.72 MHz	-1.34 dB		

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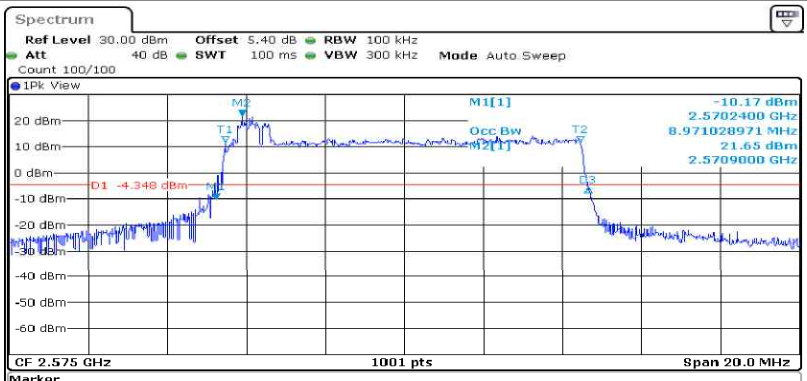
Band38-10MHz-QPSK-37800-50RB#0-8.971



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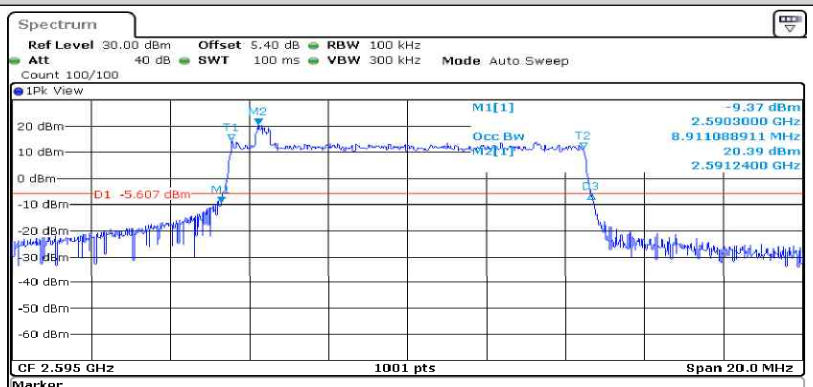
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57024 GHz	-10.17 dBm		
T1		1	2.5704845 GHz	11.50 dBm	Occ Bw	8.971028971 MHz
T2		1	2.5794555 GHz	11.74 dBm		
M2		1	2.5709 GHz	21.65 dBm		
D3	M1	1	9.42 MHz	4.61 dB		

Date: 13.JUN.2020 11:55:08

Band38-10MHz-QPSK-38000-50RB#0-8.911



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5903 GHz	-9.37 dBm		
T1		1	2.5905445 GHz	14.36 dBm	Occ Bw	8.911088911 MHz
T2		1	2.5994555 GHz	11.48 dBm		
M2		1	2.59124 GHz	20.39 dBm		
D3	M1	1	9.36 MHz	3.65 dB		

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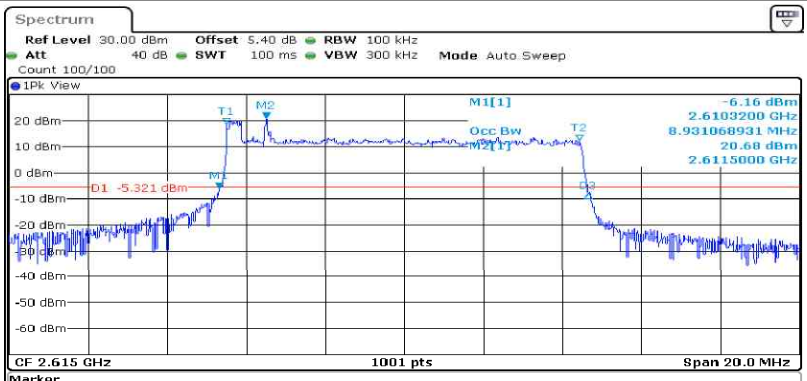
Band38-10MHz-QPSK-38200-50RB#0-8.931

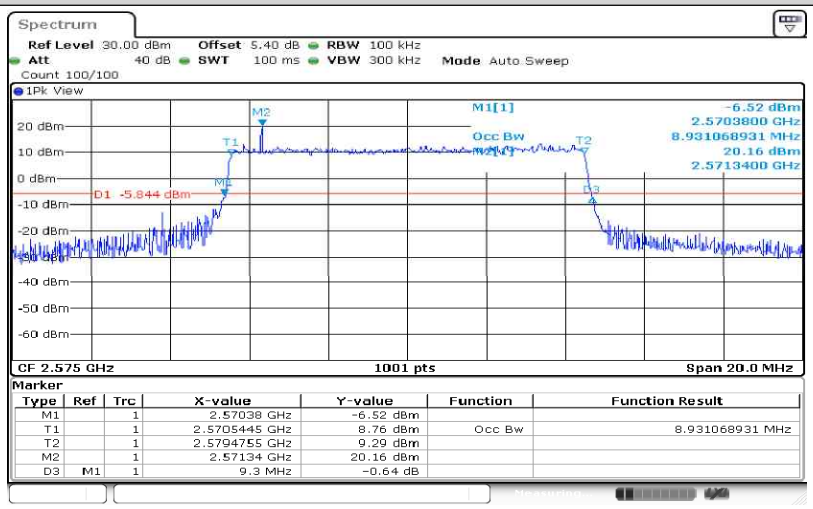


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61032 GHz	-6.16 dBm		
T1		1	2.6105045 GHz	18.69 dBm	Occ Bw	8.931068931 MHz
T2		1	2.6194356 GHz	12.23 dBm		
M2		1	2.6115 GHz	20.68 dBm		
D3	M1	1	9.34 MHz	-1.46 dB		

Date: 13.JUN.2020 11:56:27

Band38-10MHz-16QAM-37800-50RB#0-8.931



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57038 GHz	-6.52 dBm		
T1		1	2.5705445 GHz	8.76 dBm	Occ Bw	8.931068931 MHz
T2		1	2.5794755 GHz	9.29 dBm		
M2		1	2.57134 GHz	20.16 dBm		
D3	M1	1	9.3 MHz	-0.64 dB		

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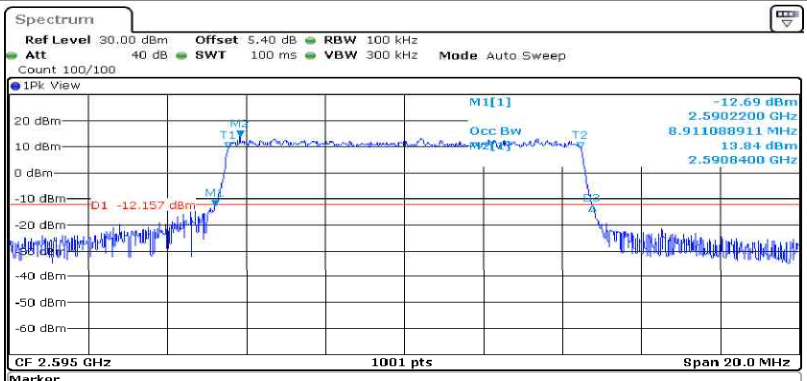
Band38-10MHz-16QAM-38000-50RB#0-8.911

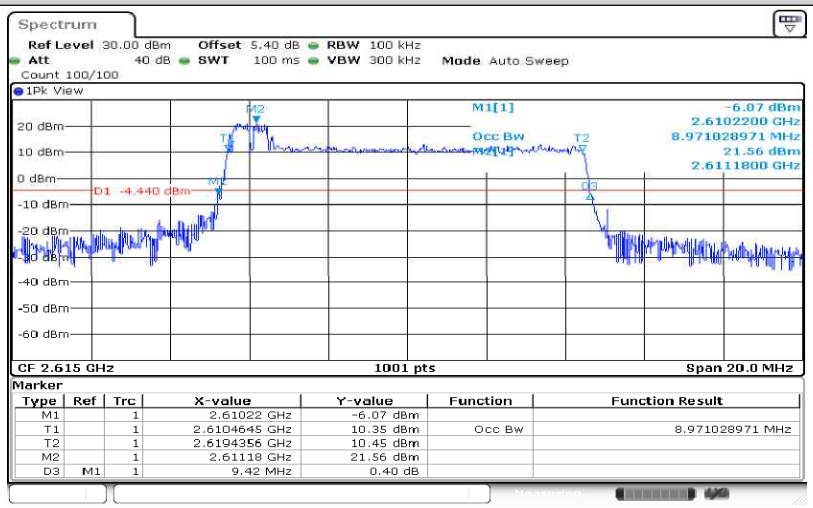


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59022 GHz	-12.69 dBm		
T1		1	2.5905445 GHz	9.45 dBm	Occ Bw	8.911088911 MHz
T2		1	2.5994555 GHz	9.42 dBm		
M2		1	2.59084 GHz	13.84 dBm		
D3	M1	1	9.54 MHz	0.34 dB		

Date: 13.JUN.2020 11:56:07

Band38-10MHz-16QAM-38200-50RB#0-8.971



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61022 GHz	-6.07 dBm		
T1		1	2.6104645 GHz	10.35 dBm	Occ Bw	8.971028971 MHz
T2		1	2.6194356 GHz	10.45 dBm		
M2		1	2.61118 GHz	21.56 dBm		
D3	M1	1	9.42 MHz	0.40 dB		

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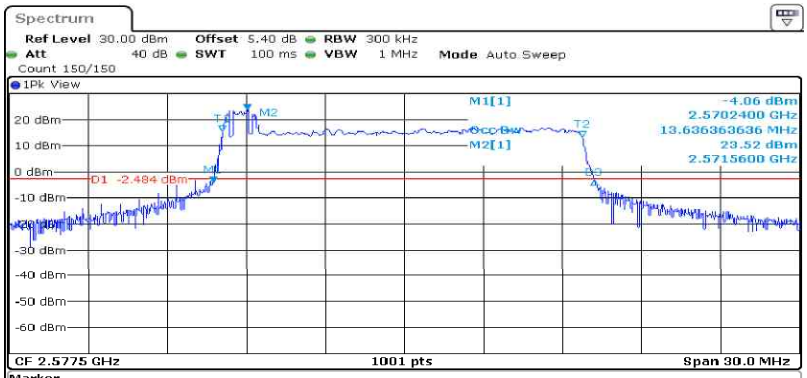
Band38-15MHz-QPSK-37825-75RB#0-13.636



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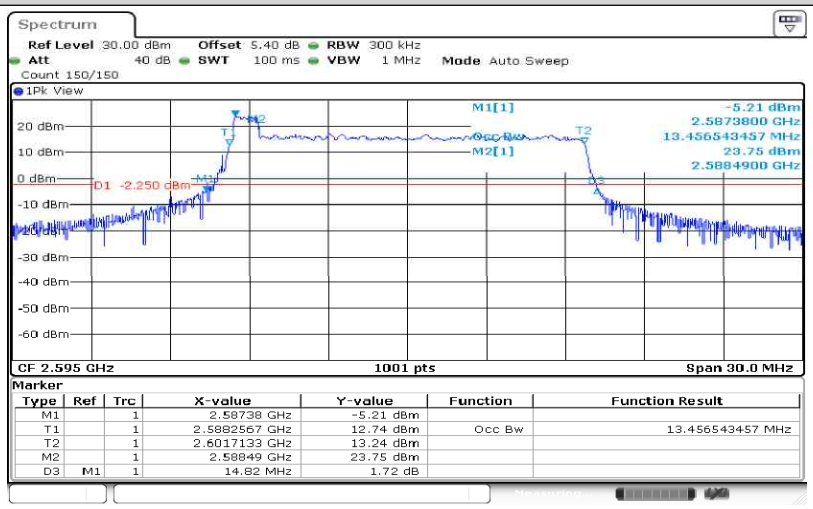
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57024 GHz	-4.06 dBm		
T1		1	2.5706069 GHz	15.36 dBm	Occ Bw	13.636363636 MHz
T2		1	2.5842433 GHz	13.19 dBm		
M2		1	2.57156 GHz	23.52 dBm		
D3	M1	1	14.46 MHz	1.29 dB		

Date: 13.JUN.2020 11:59:30

Band38-15MHz-QPSK-38000-75RB#0-13.457



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58738 GHz	-5.21 dBm		
T1		1	2.5882567 GHz	12.74 dBm	Occ Bw	13.456543457 MHz
T2		1	2.6017133 GHz	13.24 dBm		
M2		1	2.58849 GHz	23.75 dBm		
D3	M1	1	14.82 MHz	1.72 dB		

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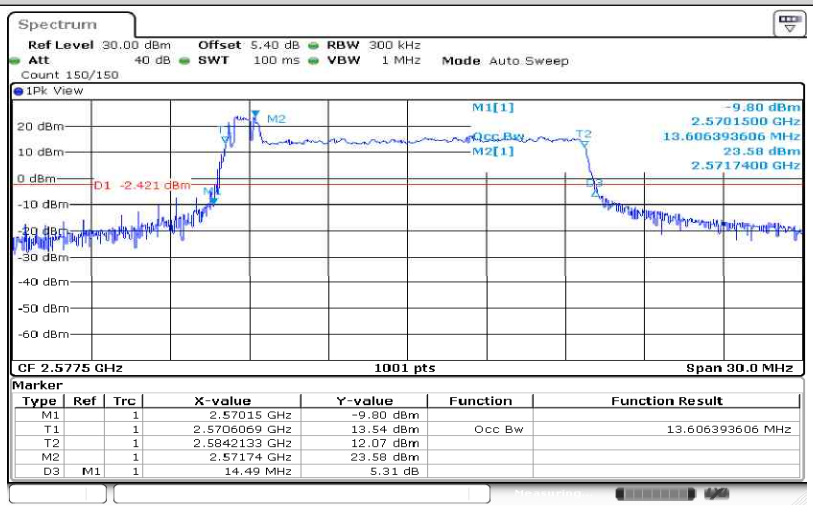
Band38-15MHz-QPSK-38175-75RB#0-13.636

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60518 GHz	-3.65 dBm		
T1		1	2.6055769 GHz	16.47 dBm	Occ Bw	13.636363636 MHz
T2		1	2.6192133 GHz	13.38 dBm		
M2		1	2.60677 GHz	24.49 dBm		
D3	M1	1	14.49 MHz	1.79 dB		

Date: 13.JUN.2020 12:01:15

Band38-15MHz-16QAM-37825-75RB#0-13.606



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57015 GHz	-9.80 dBm		
T1		1	2.5706069 GHz	13.54 dBm	Occ Bw	13.606393606 MHz
T2		1	2.5842133 GHz	12.07 dBm		
M2		1	2.57174 GHz	23.58 dBm		
D3	M1	1	14.49 MHz	5.31 dB		

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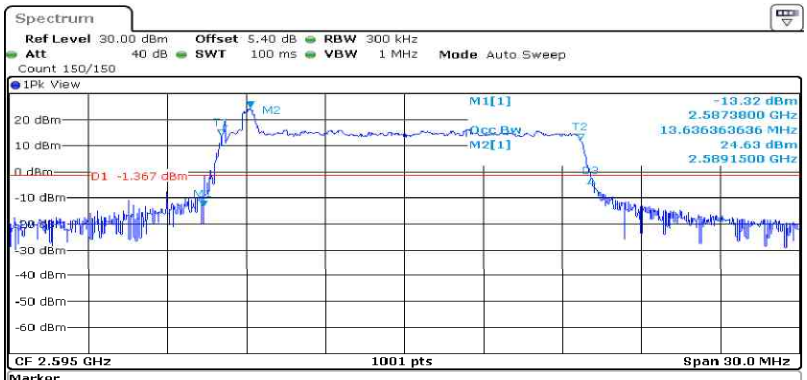
Band38-15MHz-16QAM-38000-75RB#0-13.636



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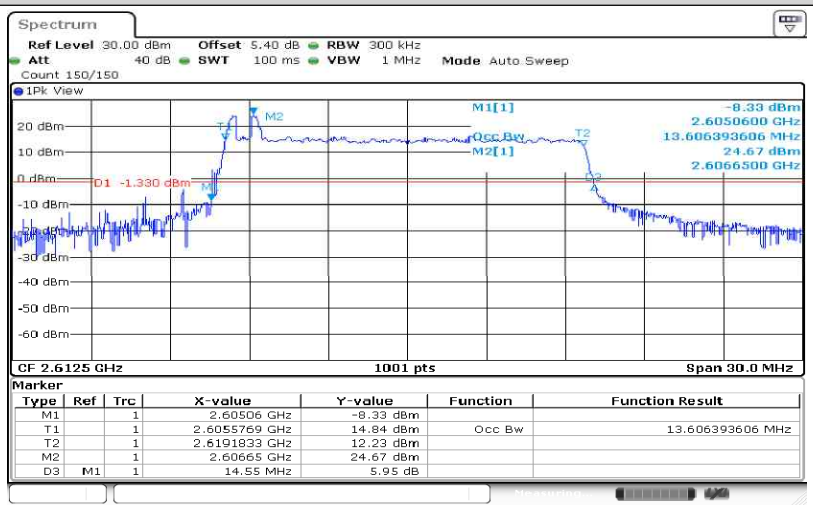
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58738 GHz	-13.32 dBm		
T1		1	2.588047 GHz	13.91 dBm	Occ Bw	13.636363636 MHz
T2		1	2.6016833 GHz	12.30 dBm		
M2		1	2.58915 GHz	24.63 dBm		
D3	M1	1	14.73 MHz	11.19 dB		

Date: 13.JUN.2020 12:00:48

Band38-15MHz-16QAM-38175-75RB#0-13.606



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60506 GHz	-8.33 dBm		
T1		1	2.6055769 GHz	14.84 dBm	Occ Bw	13.606393606 MHz
T2		1	2.6191833 GHz	12.23 dBm		
M2		1	2.60665 GHz	24.67 dBm		
D3	M1	1	14.55 MHz	5.95 dB		

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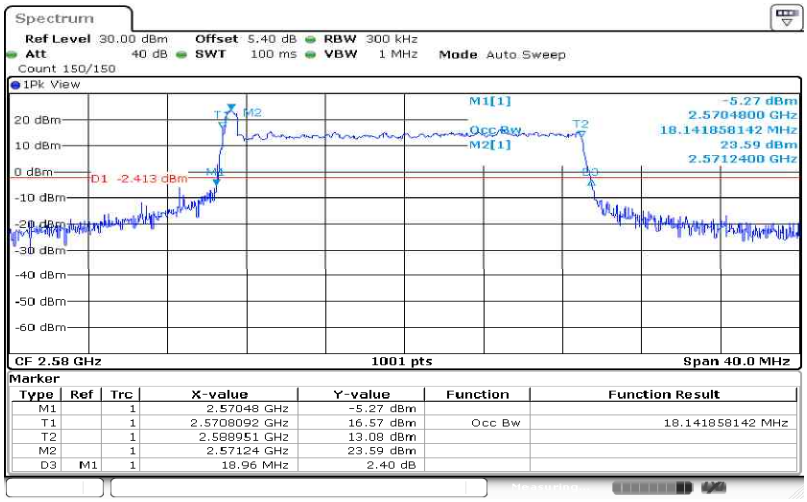
Band38-20MHz-QPSK-37850-100RB#0-18.142



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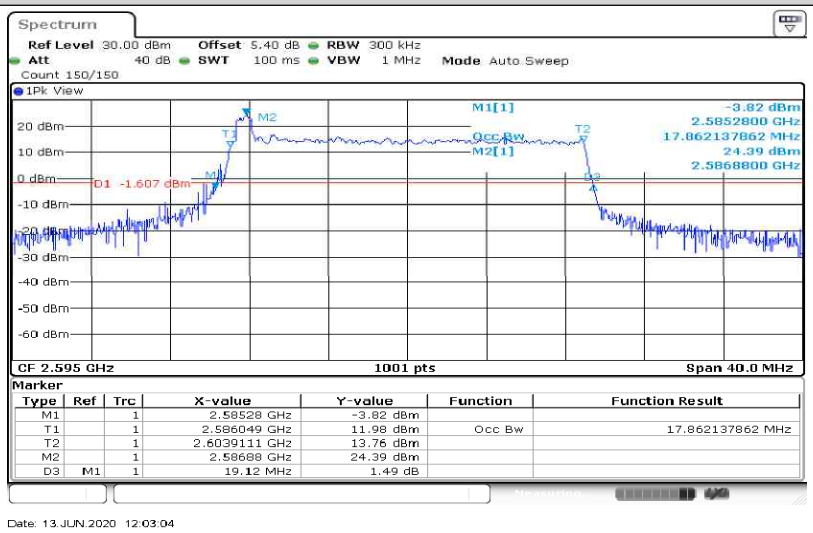

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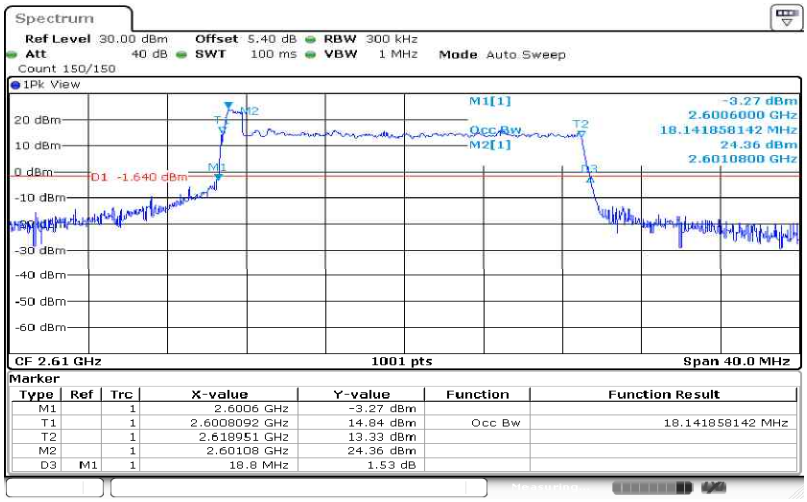
Band38-20MHz-QPSK-38150-100RB#0-18.142



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.6006 GHz	-3.27 dBm		
T1		1	2.6008092 GHz	14.84 dBm	Occ Bw	18.141858142 MHz
T2		1	2.618951 GHz	13.33 dBm		
M2		1	2.60108 GHz	24.36 dBm		
D3	M1	1	18.8 MHz	1.53 dB		

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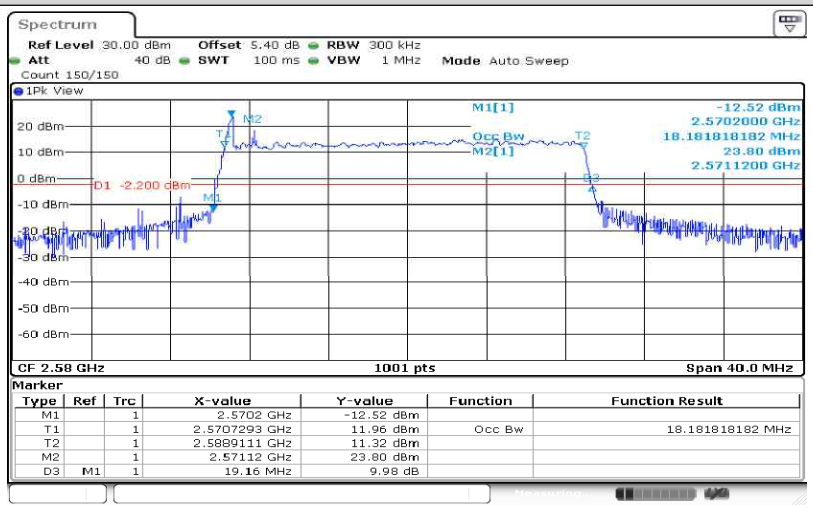
Band38-20MHz-16QAM-37850-100RB#0-18.182



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5702 GHz	-12.52 dBm		
T1		1	2.5707293 GHz	11.96 dBm	Occ Bw	18.181818182 MHz
T2		1	2.5889111 GHz	11.32 dBm		
M2		1	2.57112 GHz	23.80 dBm		
D3	M1	1	19.16 MHz	9.98 dB		

Date: 13.JUN.2020 12:02:38

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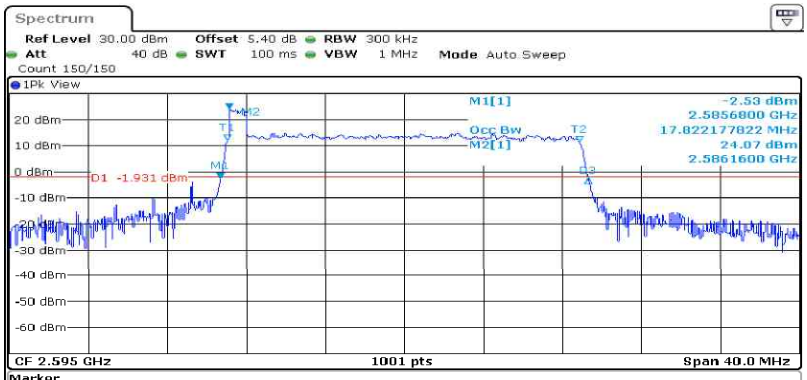
Band38-20MHz-16QAM-38000-100RB#0-17.822



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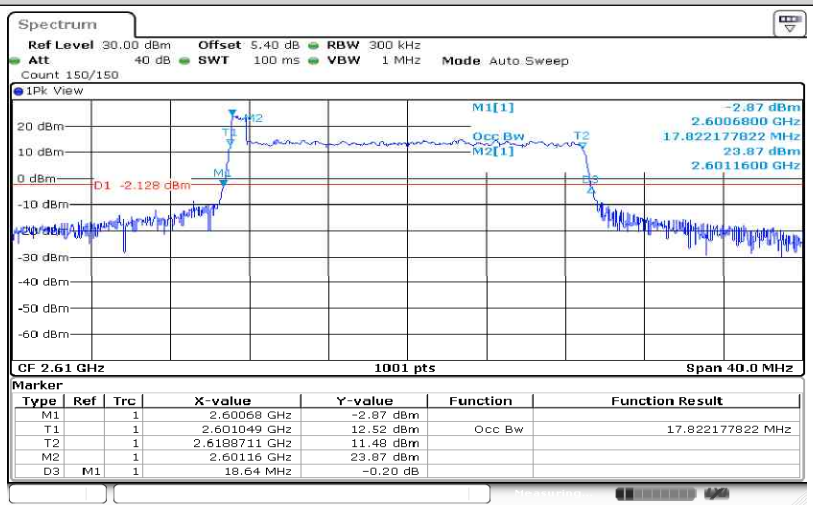
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58568 GHz	-2.53 dBm		
T1		1	2.586049 GHz	12.00 dBm	Occ Bw	17.822177822 MHz
T2		1	2.6038711 GHz	11.35 dBm		
M2		1	2.58616 GHz	24.07 dBm		
D3	M1	1	18.64 MHz	0.27 dB		

Date: 13.JUN.2020 12:03:30

Band38-20MHz-16QAM-38150-100RB#0-17.822



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60068 GHz	-2.87 dBm		
T1		1	2.601049 GHz	12.52 dBm	Occ Bw	17.822177822 MHz
T2		1	2.6188711 GHz	11.48 dBm		
M2		1	2.60116 GHz	23.87 dBm		
D3	M1	1	18.64 MHz	-0.20 dB		

Date: 13.JUN.2020 12:04:23

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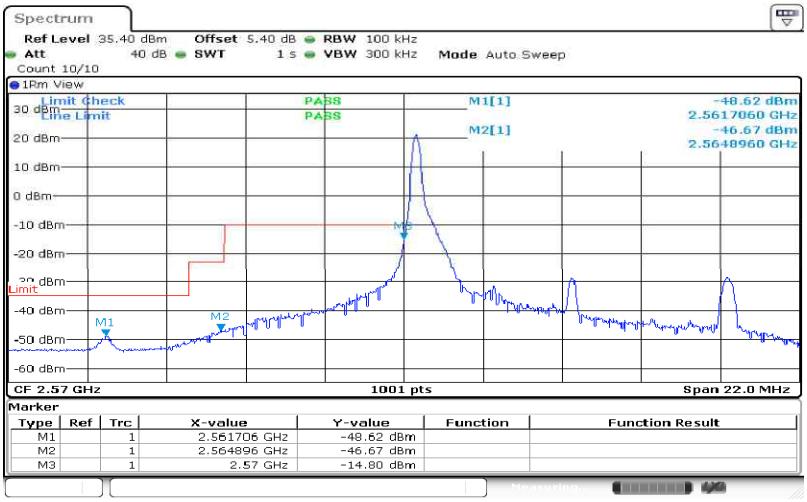
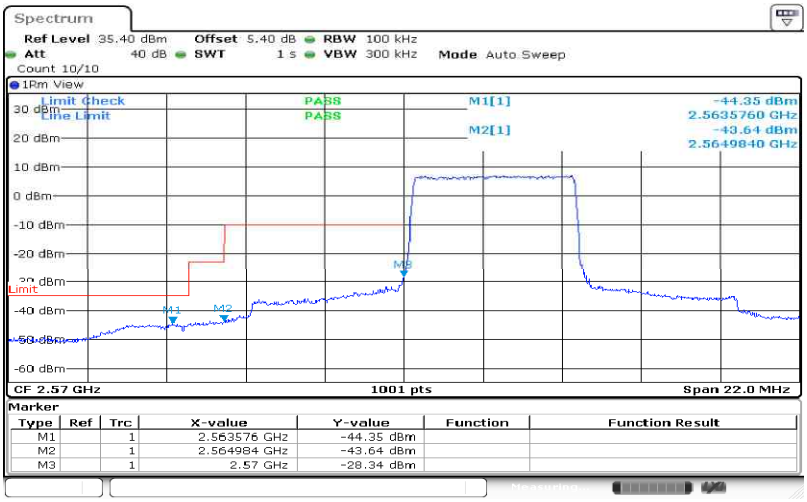
5. Band Edge Compliance

5.1. Test Plots

Band38-5MHz-QPSK-37775-1RB#0



Band38-5MHz-QPSK-37775-25RB#0



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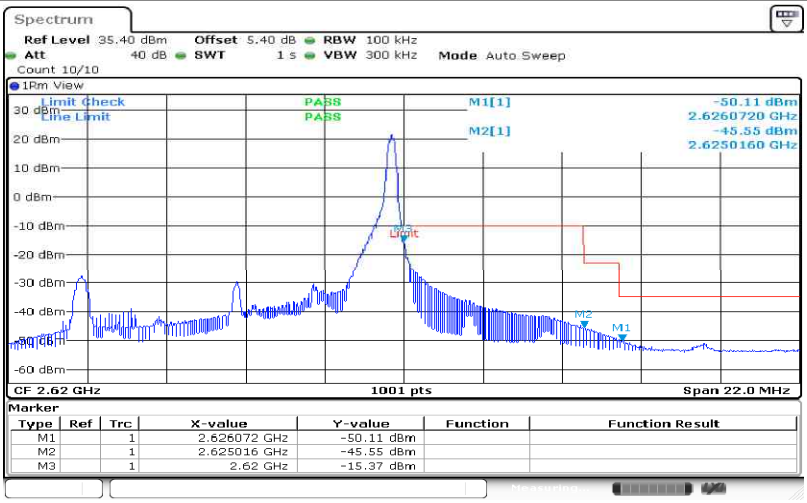
Band38-5MHz-QPSK-38225-1RB#24



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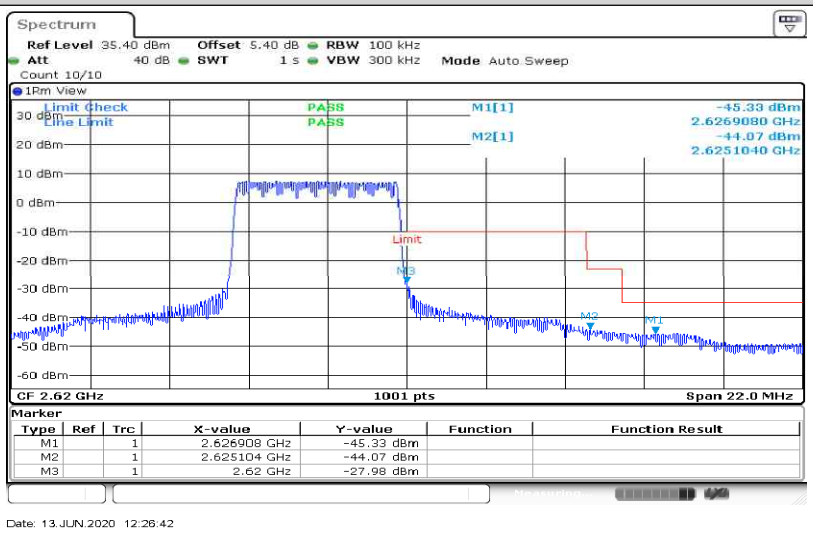

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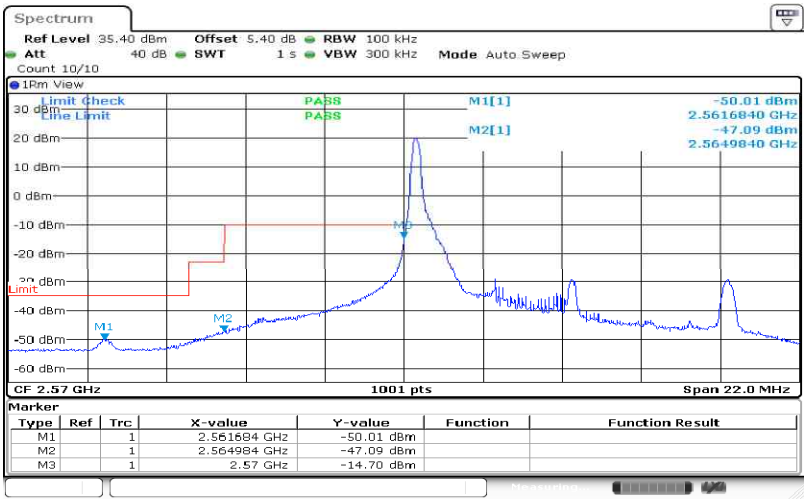

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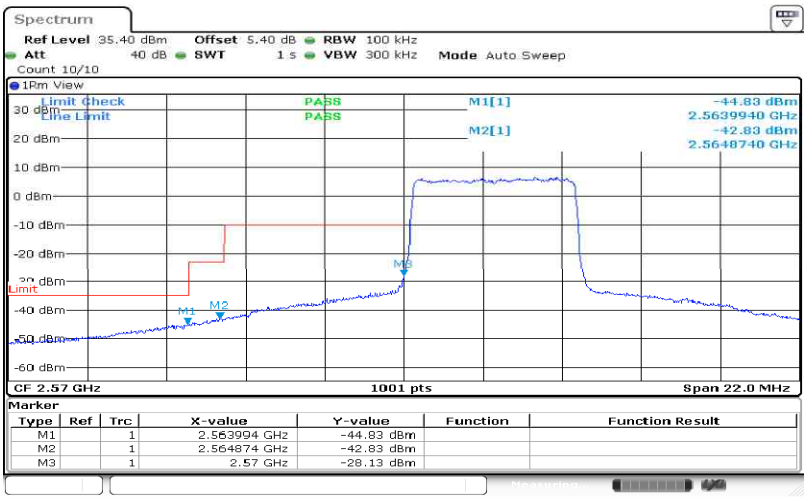
Band38-5MHz-16QAM-37775-25RB#0



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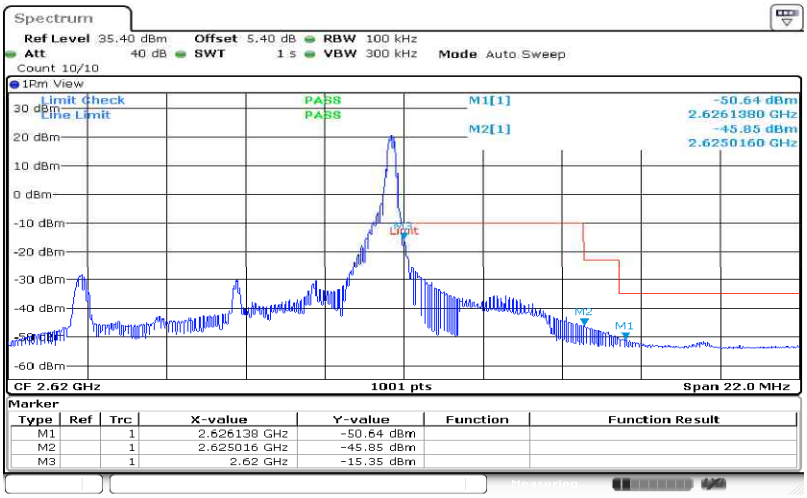
Band38-5MHz-16QAM-38225-1RB#24



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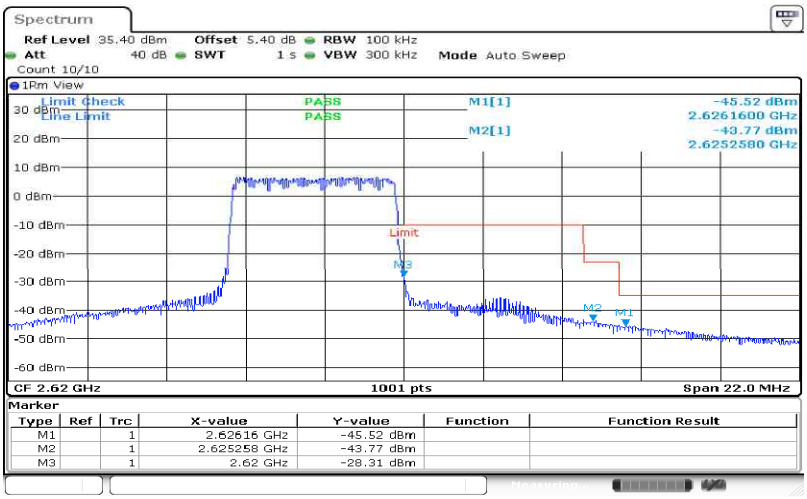

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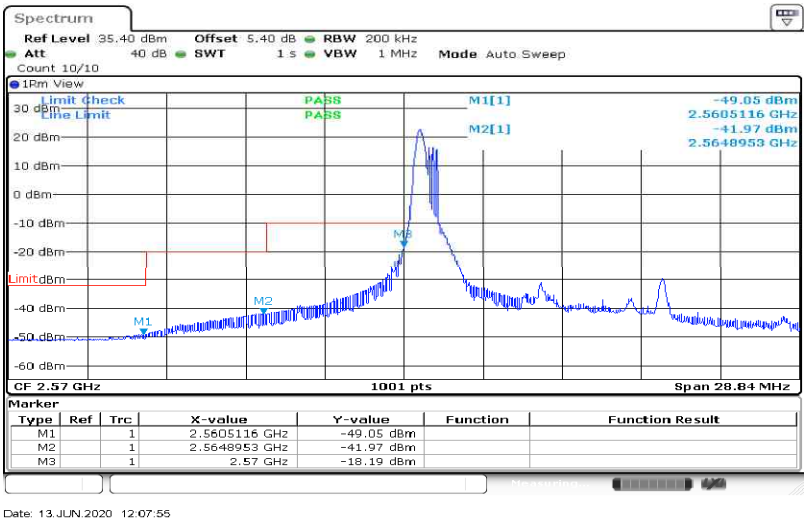
Band38-10MHz-QPSK-37800-1RB#0



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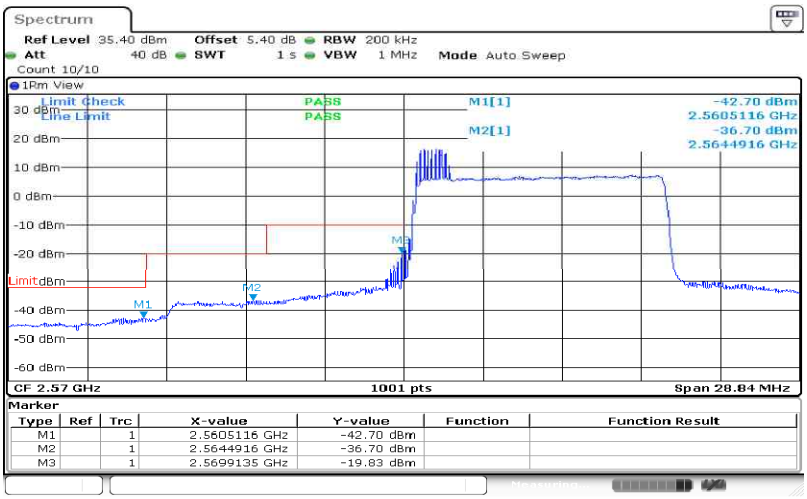
Band38-10MHz-QPSK-37800-50RB#0



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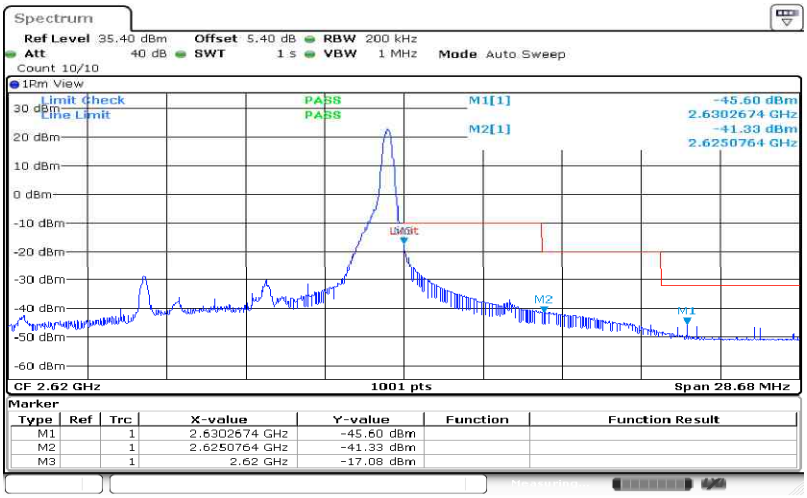
Band38-10MHz-QPSK-38200-1RB#49



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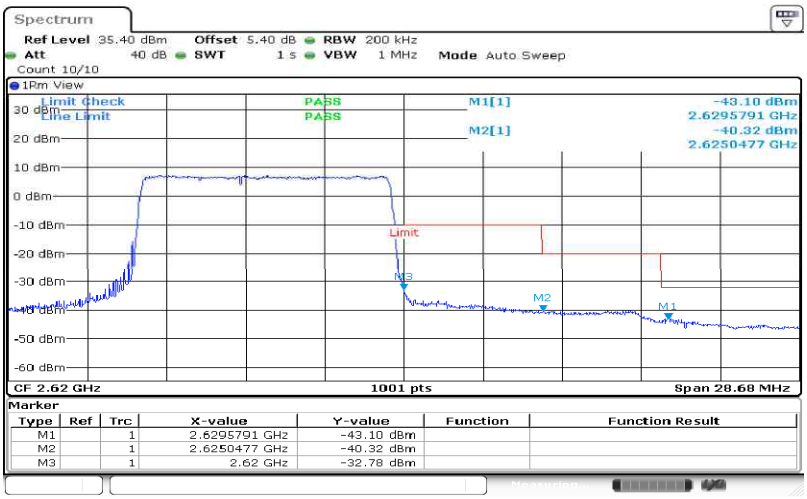

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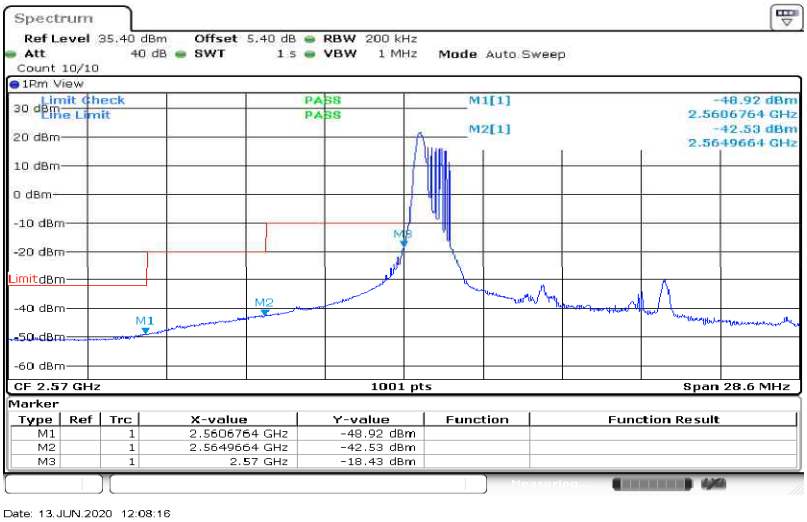
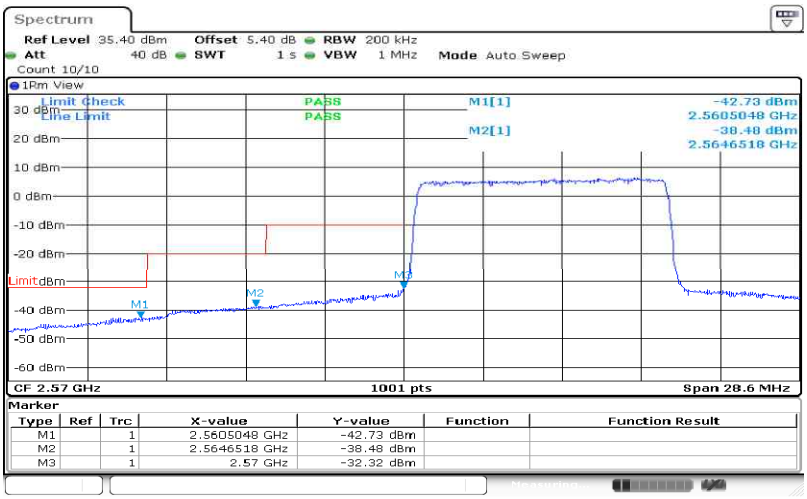
Band38-10MHz-16QAM-37800-1RB#0



Date: 13.JUN.2020 12:08:16

Band38-10MHz-16QAM-37800-50RB#0



Date: 13.JUN.2020 12:09:51

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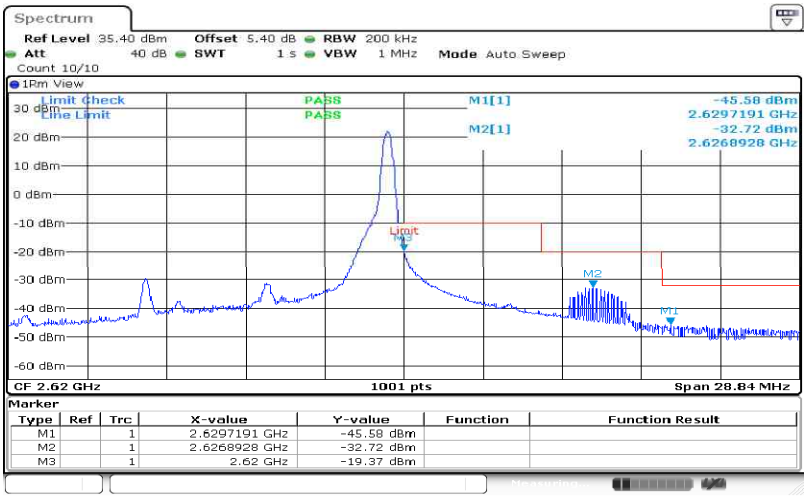
Band38-10MHz-16QAM-38200-1RB#49



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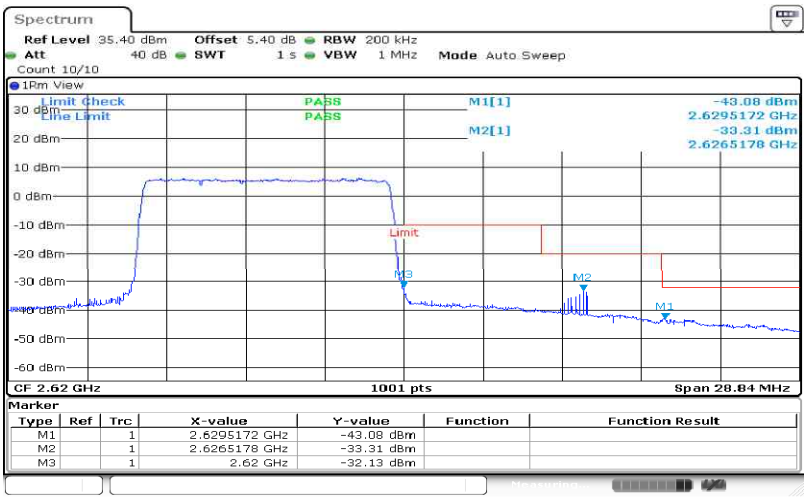
Band38-10MHz-16QAM-38200-50RB#0



Date: 13.JUN.2020 12:10:35

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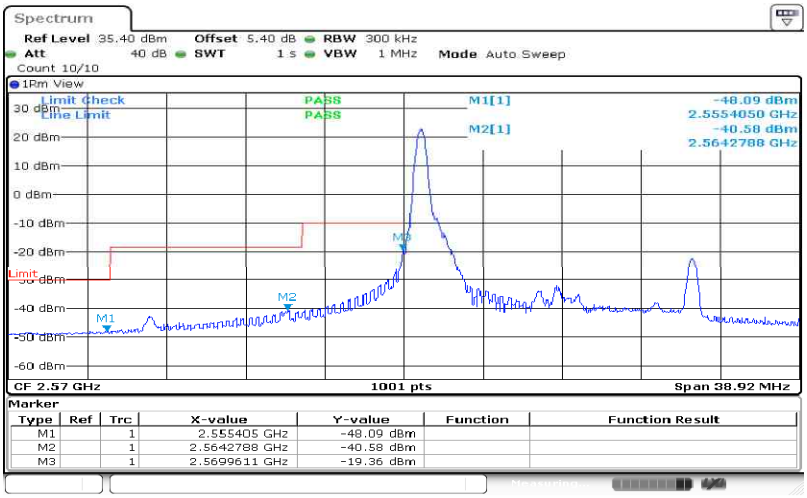
Band38-15MHz-QPSK-37825-1RB#0



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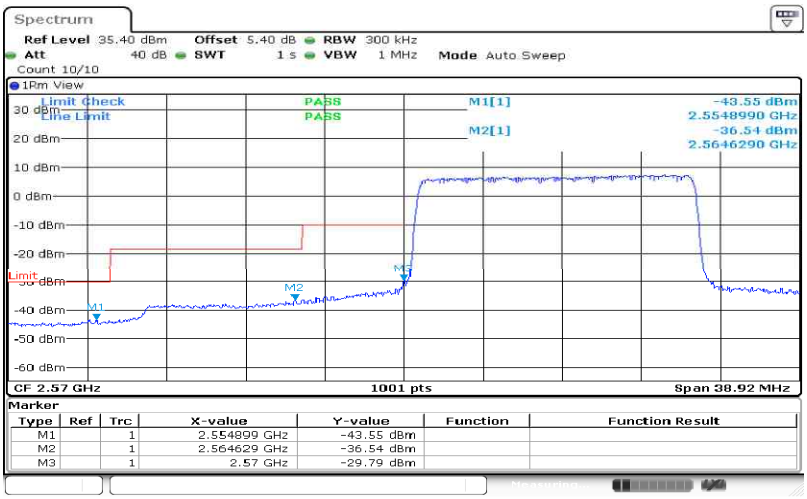
Band38-15MHz-QPSK-37825-75RB#0



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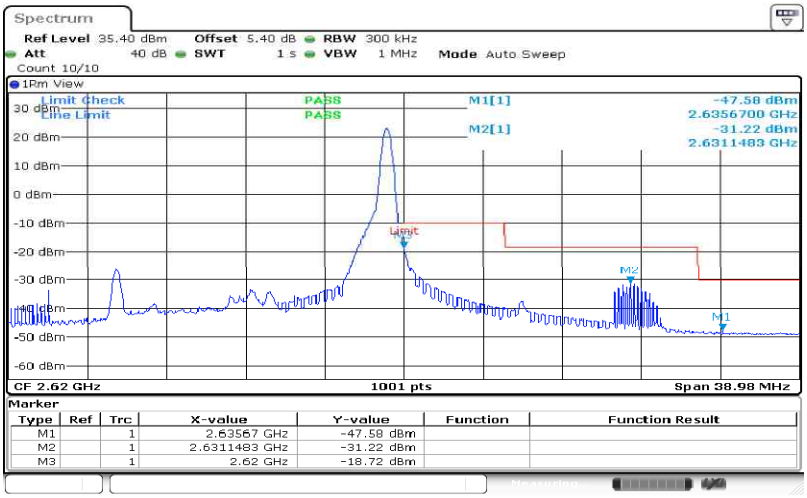
Band38-15MHz-QPSK-38175-1RB#74



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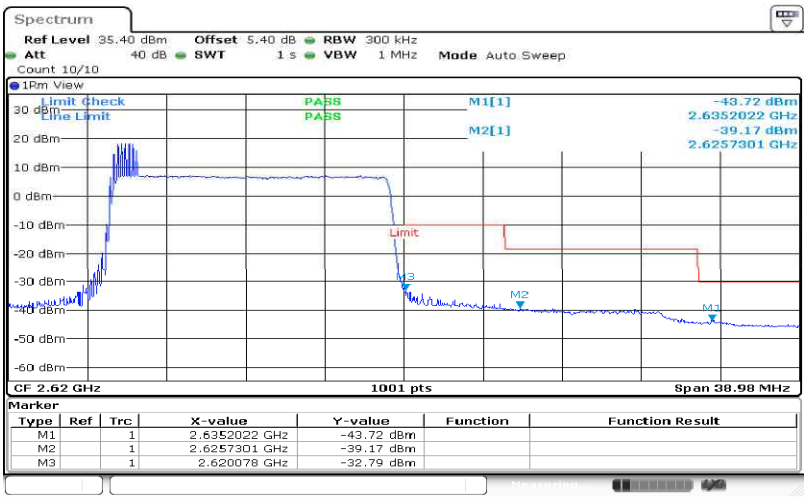
Band38-15MHz-QPSK-38175-75RB#0



Date: 13.JUN.2020 12:13:19

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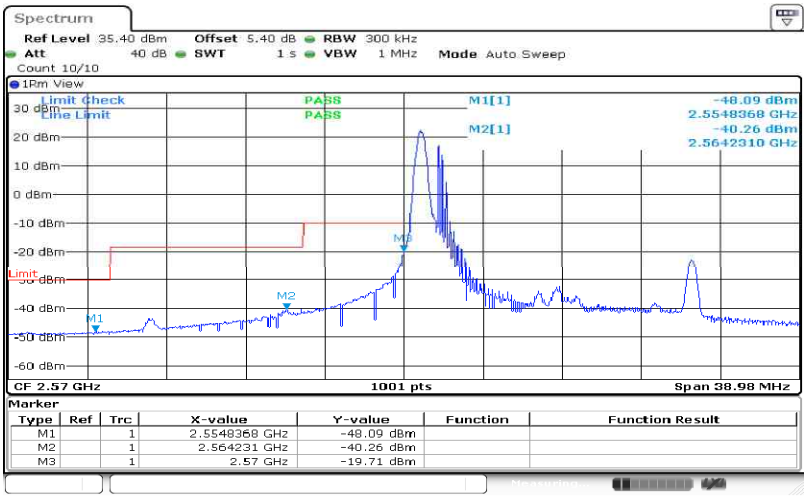
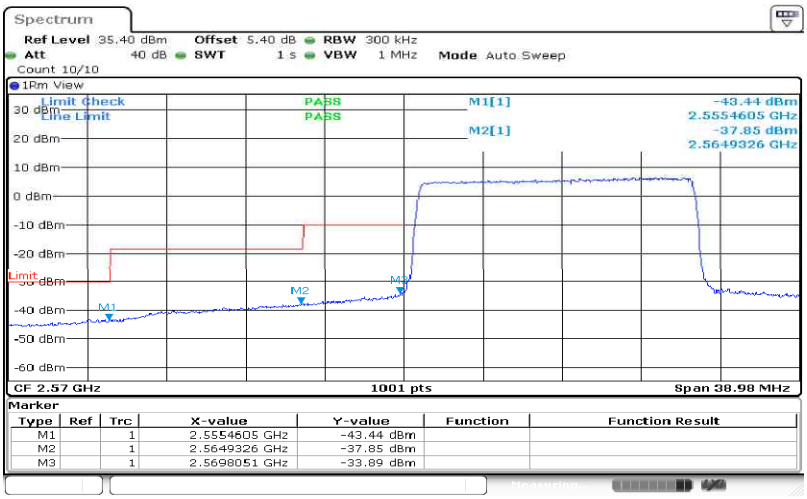
Band38-15MHz-16QAM-37825-1RB#0



Date: 13.JUN.2020 12:11:23

Band38-15MHz-16QAM-37825-75RB#0



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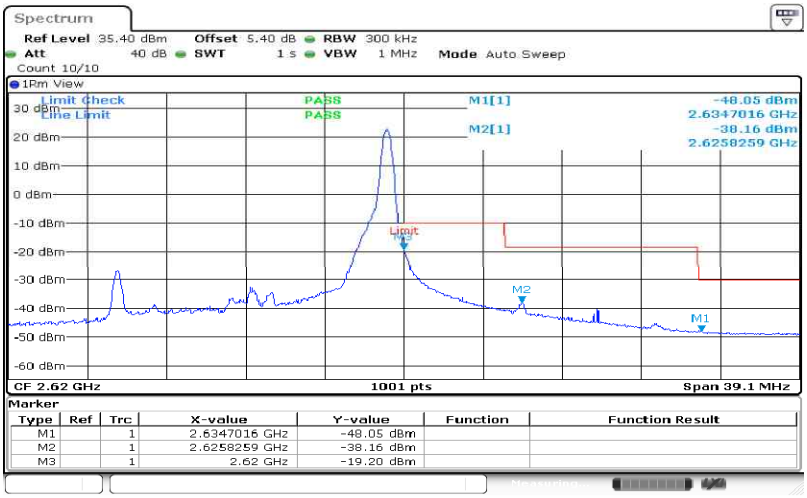
Band38-15MHz-16QAM-38175-1RB#74



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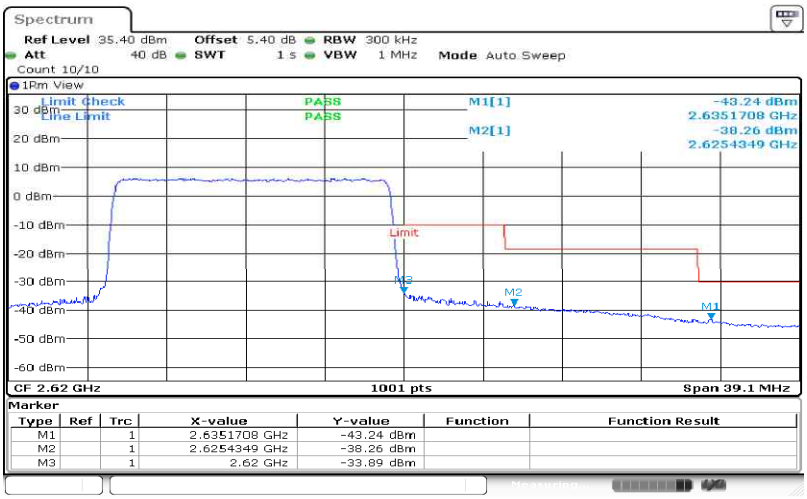
Band38-15MHz-16QAM-38175-75RB#0



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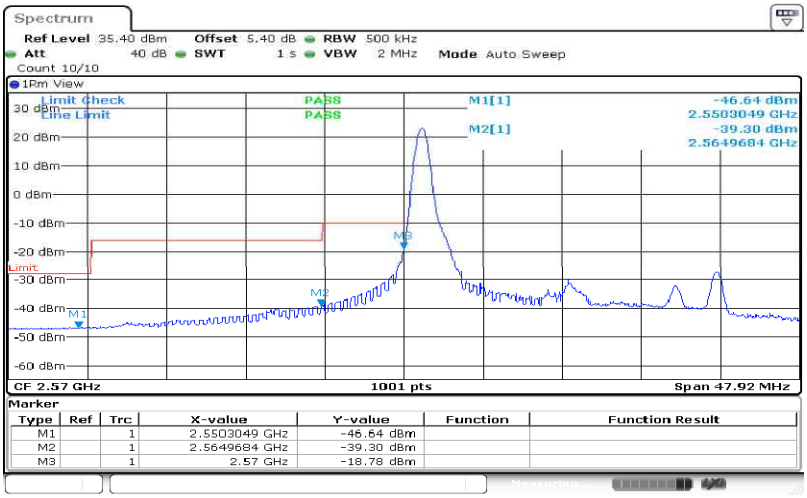
Band38-20MHz-QPSK-37850-1RB#0



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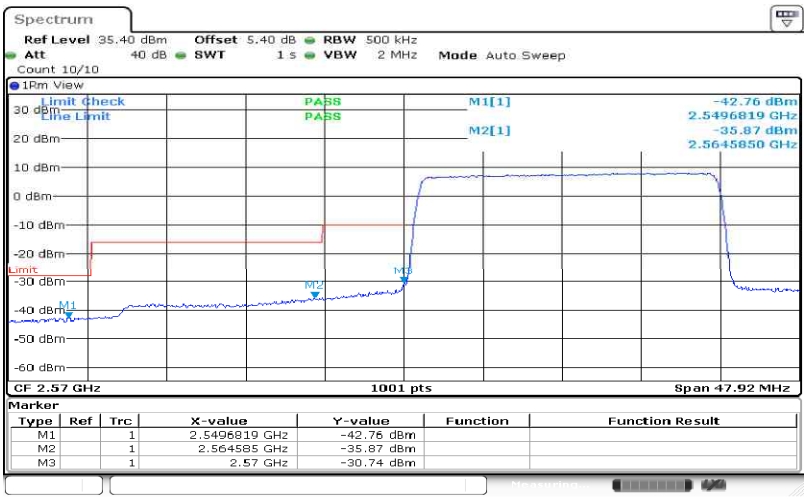
Band38-20MHz-QPSK-37850-100RB#0



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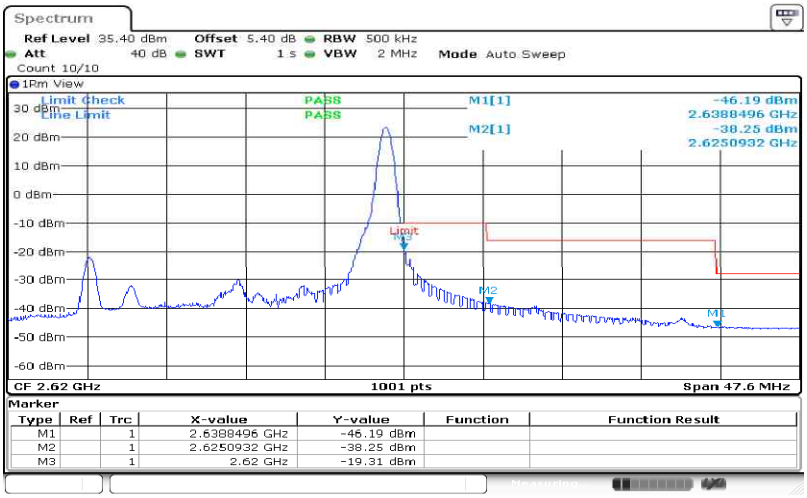
Band38-20MHz-QPSK-38150-1RB#99



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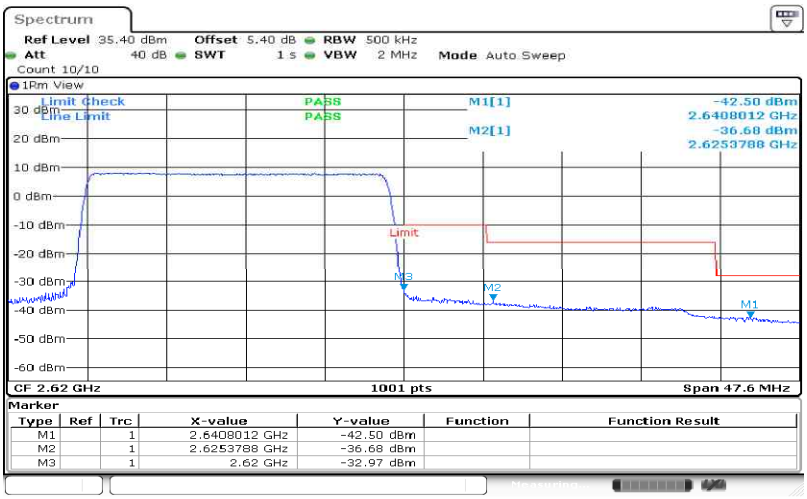
Band38-20MHz-QPSK-38150-100RB#0



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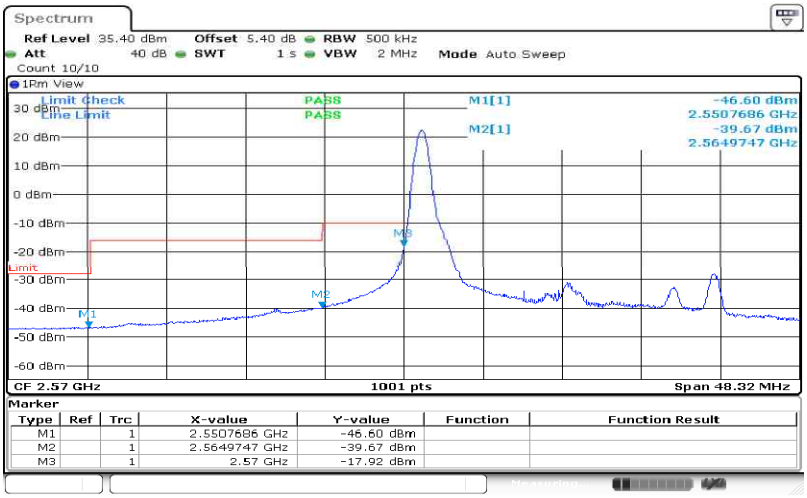
Band38-20MHz-16QAM-37850-1RB#0



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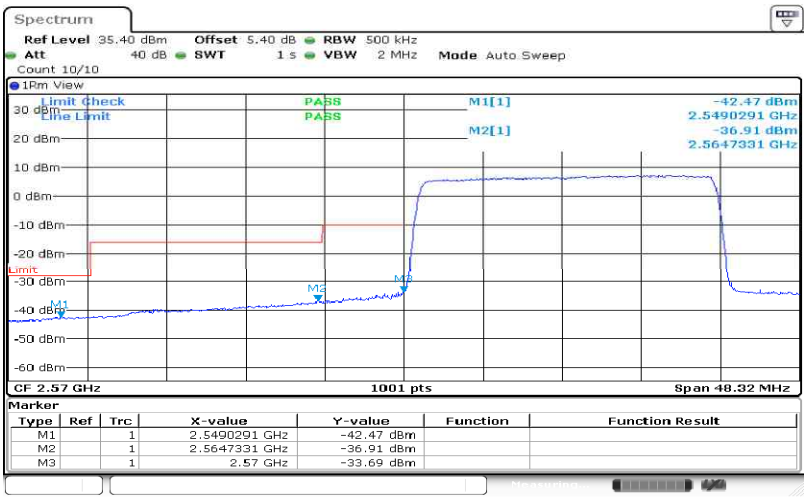
Band38-20MHz-16QAM-37850-100RB#0



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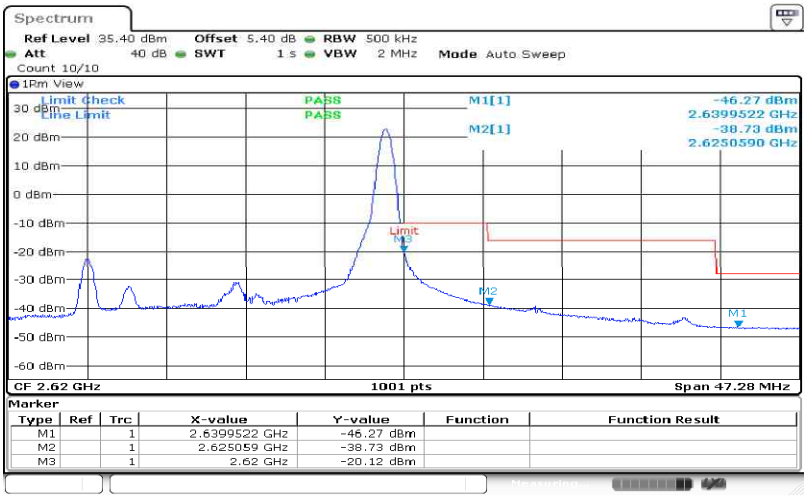
Band38-20MHz-16QAM-38150-1RB#99



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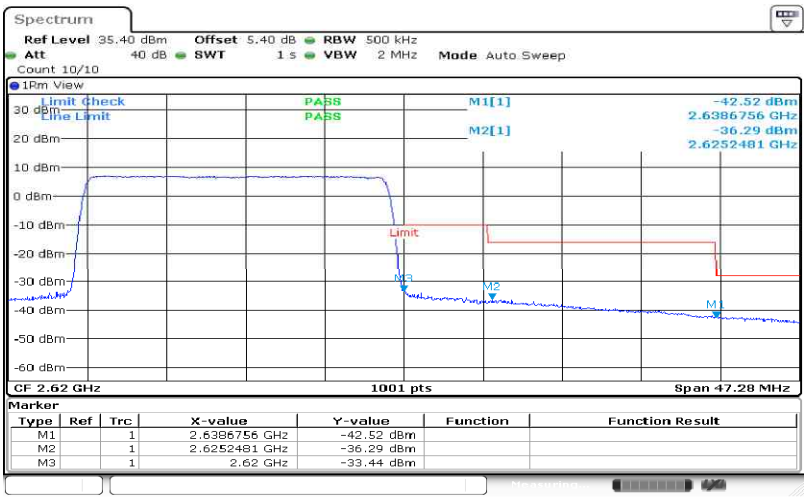
Band38-20MHz-16QAM-38150-100RB#0



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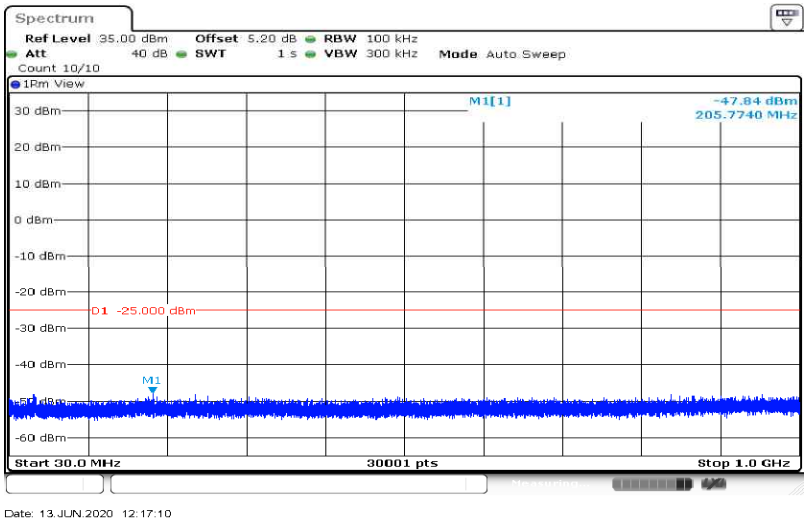
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

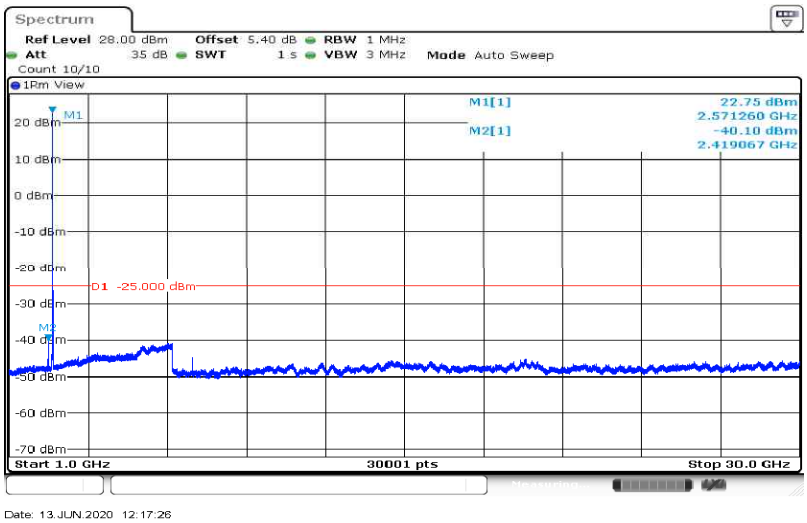
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band38-20MHz-QPSK-37850-1RB#0-Range1:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



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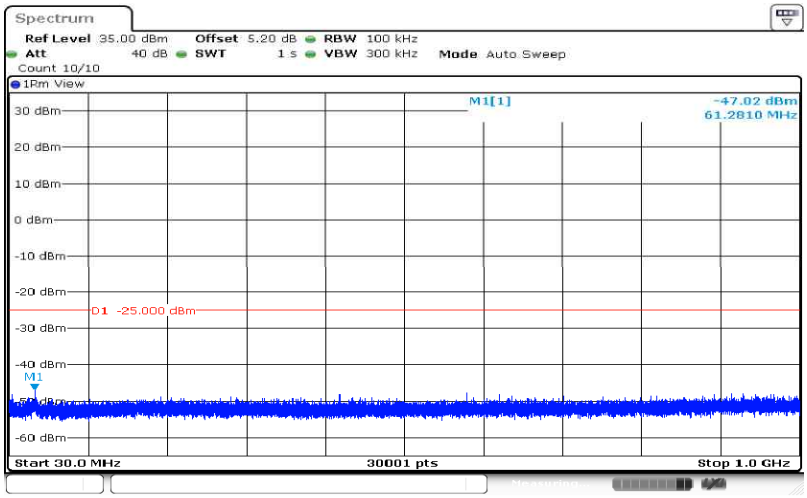
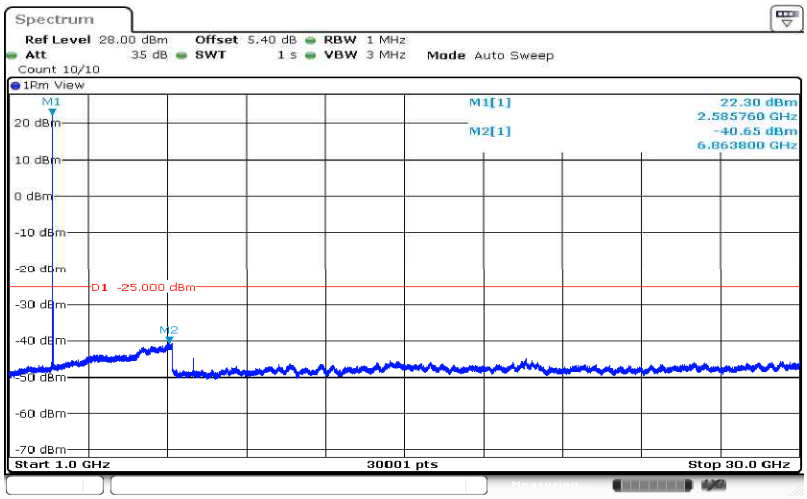
Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



Date: 13.JUN.2020 12:18:19

Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 13.JUN.2020 12:18:35

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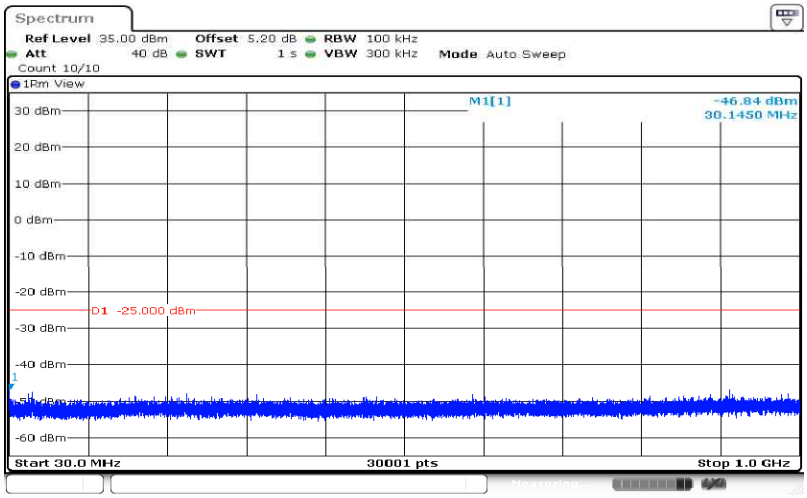
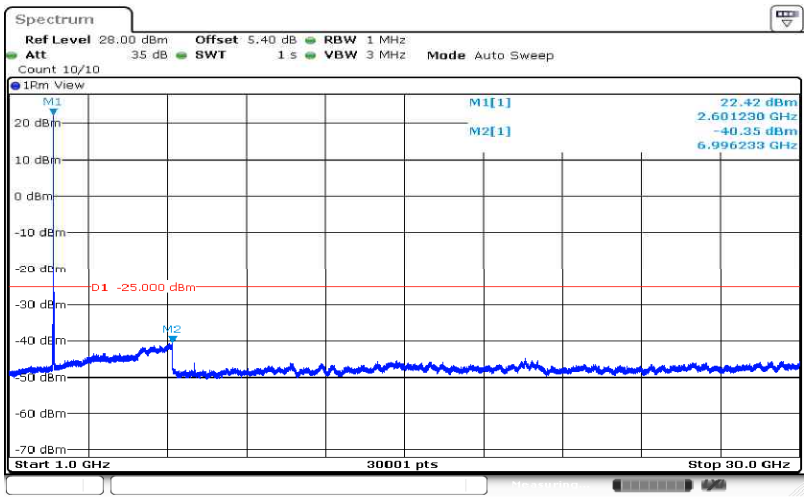
Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



Date: 13.JUN.2020 12:19:29

Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



Date: 13.JUN.2020 12:19:45

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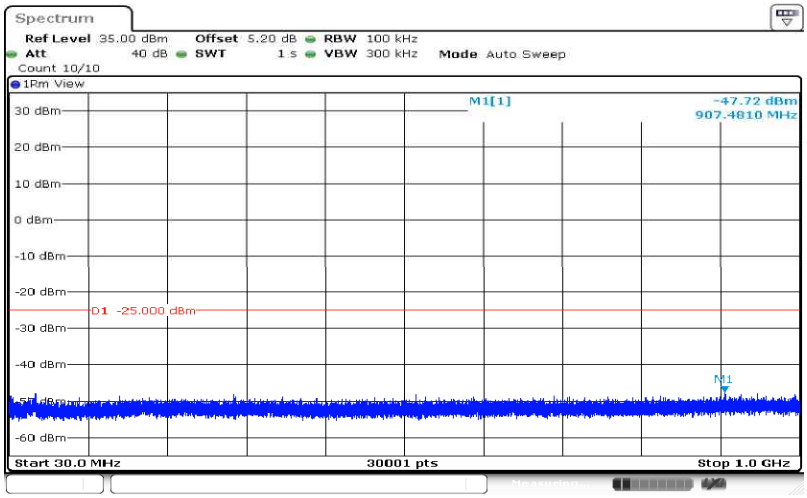
Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



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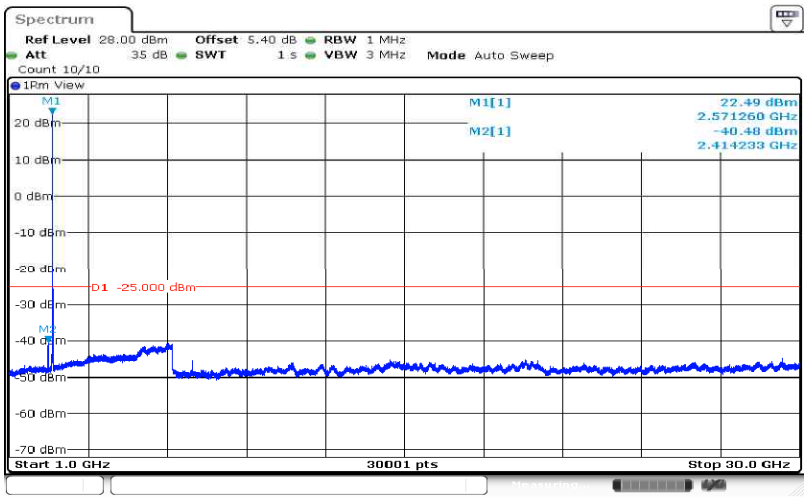
Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 13.JUN.2020 12:18:00

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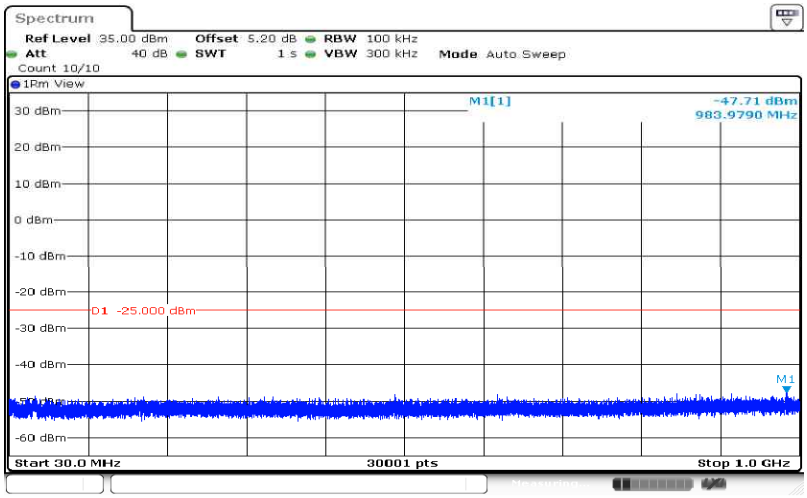
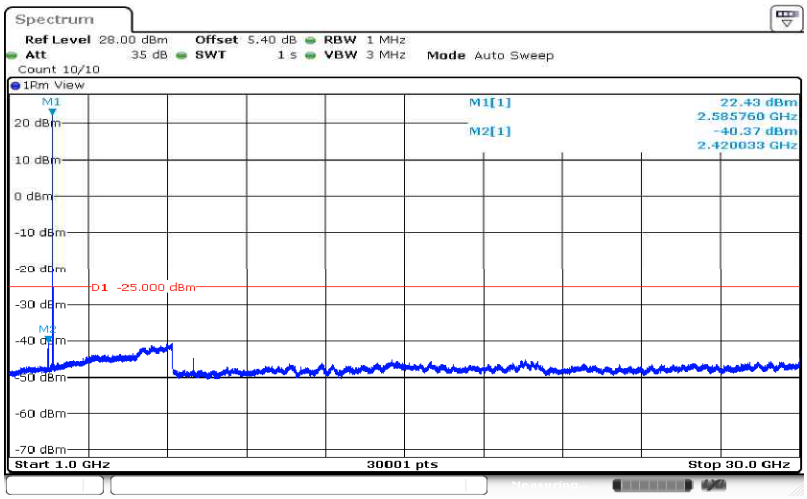
Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



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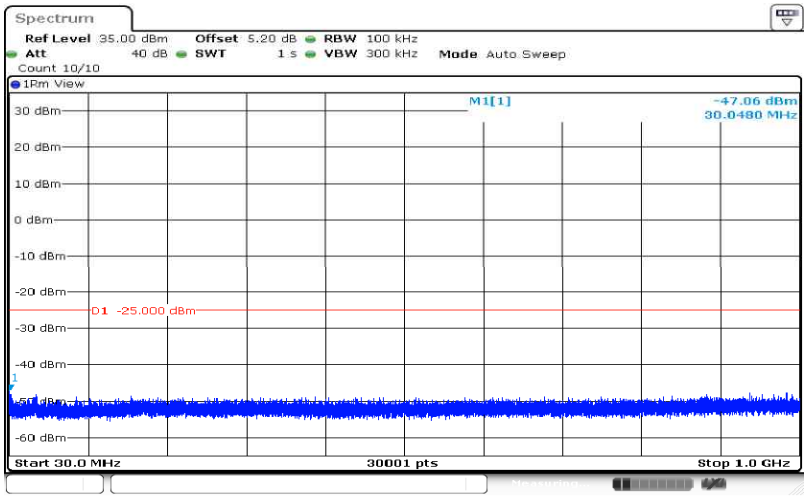
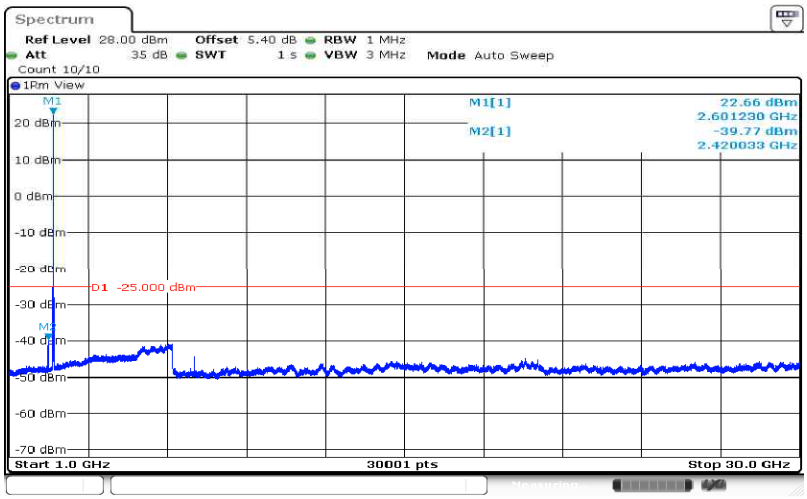


Date: 13.JUN.2020 12:20:03

Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 13.JUN.2020 12:20:19

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.1471	-71.53	-25.00	46.53	Vertical
110.3200	-64.66	-25.00	39.66	Vertical
599.6125	-63.54	-25.00	38.54	Vertical
2975.5951	-38.37	-25.00	13.37	Vertical
7997.1666	-55.64	-25.00	30.64	Vertical
17997.9999	-40.53	-25.00	15.53	Vertical
42.5136	-63.75	-25.00	38.75	Horizontal
236.1353	-67.89	-25.00	42.89	Horizontal
523.0272	-65.27	-25.00	40.27	Horizontal
1477.2955	-47.33	-25.00	22.33	Horizontal
8018.6673	-56.49	-25.00	31.49	Horizontal
16391.9464	-43.94	-25.00	18.94	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.0315	-72.29	-25.00	47.29	Vertical
110.6110	-64.13	-25.00	39.13	Vertical
615.6668	-64.29	-25.00	39.29	Vertical
2990.7982	-38.29	-25.00	13.29	Vertical
7333.6445	-55.97	-25.00	30.97	Vertical
17998.5000	-40.06	-25.00	15.06	Vertical
44.2112	-63.23	-25.00	38.23	Horizontal
229.7815	-67.94	-25.00	42.94	Horizontal
592.1431	-63.49	-25.00	38.49	Horizontal
2999.5999	-38.57	-25.00	13.57	Horizontal
7479.1493	-56.57	-25.00	31.57	Horizontal
16388.9463	-43.59	-25.00	18.59	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.6920	-72.68	-25.00	47.68	Vertical
109.4955	-64.39	-25.00	39.39	Vertical
288.0814	-68.32	-25.00	43.32	Vertical
2948.3897	-38.42	-25.00	13.42	Vertical
7378.1459	-56.05	-25.00	31.05	Vertical
17999.5000	-39.66	-25.00	14.66	Vertical
42.7076	-64.36	-25.00	39.36	Horizontal
229.0055	-68.62	-25.00	43.62	Horizontal
512.8416	-65.63	-25.00	40.63	Horizontal
2979.9960	-38.36	-25.00	13.36	Horizontal
7483.1494	-56.43	-25.00	31.43	Horizontal
16392.4464	-43.66	-25.00	18.66	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-5.20	-0.002016	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	2.80	0.001085	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	5.40	0.002093	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-4.80	-0.001850	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-10.60	-0.004085	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-3.30	-0.001272	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-10.30	-0.003946	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-16.20	-0.006207	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	2.80	0.001085	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	2.20	0.000853	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-4.00	-0.001541	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-19.20	-0.007399	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-1.30	-0.000501	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-9.70	-0.003716	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-9.40	-0.003643	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-1.20	-0.000465	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	0.10	0.000039	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-3.00	-0.001163	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-2.60	-0.001008	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-9.60	-0.003721	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-8.60	-0.003314	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-11.90	-0.004586	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-2.90	-0.001118	±2.5	PASS

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Band38	20MHz	QPSK	38000	100RB#0	NV	10	-12.10	-0.004663	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-4.90	-0.001888	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	2.20	0.000848	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-10.60	-0.004085	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-2.60	-0.001002	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-4.90	-0.001877	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-17.40	-0.006667	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-8.80	-0.003372	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-7.80	-0.002989	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-12.70	-0.004866	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-13.90	-0.005326	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-6.60	-0.002529	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-2.00	-0.000766	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-5.90	-0.002287	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-8.70	-0.003372	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	0.10	0.000039	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-6.30	-0.002442	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-8.40	-0.003256	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-9.50	-0.003682	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-4.00	-0.001550	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-3.80	-0.001464	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-2.90	-0.001118	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-7.10	-0.002736	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	0.50	0.000193	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-3.90	-0.001503	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-4.30	-0.001657	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-5.20	-0.001992	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-10.80	-0.004138	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-6.50	-0.002490	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-13.30	-0.005096	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-8.80	-0.003372	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-14.40	-0.005517	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-12.60	-0.004828	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-4.80	-0.001839	±2.5	PASS

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