

Appendix B

E-UTRA BAND 2



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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
Band2	1.4MHz	QPSK	18607	1RB#0	22.11	20.11	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	21.87	19.87	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	21.87	19.87	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	21.86	19.86	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	21.88	19.88	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	21.88	19.88	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.04	19.04	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.04	20.04	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	21.99	19.99	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	21.98	19.98	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	21.98	19.98	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	21.99	19.99	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.01	20.01	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.18	19.18	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	21.88	19.88	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	21.83	19.83	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	21.81	19.81	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	21.87	19.87	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	21.86	19.86	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	21.84	19.84	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.03	19.03	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	21.83	19.83	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	21.79	19.79	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	21.73	19.73	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.05	19.05	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.00	19.00	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	20.99	18.99	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.03	19.03	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.03	20.03	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	21.92	19.92	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	21.93	19.93	33.00	PASS



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Band2	3MHz	QPSK	18900	8RB#0	21.20	19.20	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.18	19.18	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.17	19.17	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.16	19.16	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	21.89	19.89	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	21.84	19.84	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.79	19.79	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.12	19.12	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.09	19.09	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.07	19.07	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.08	19.08	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	21.92	19.92	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	21.79	19.79	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	21.73	19.73	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.09	19.09	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.00	19.00	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	20.97	18.97	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.02	19.02	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.01	20.01	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	21.97	19.97	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	21.94	19.94	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.24	19.24	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.19	19.19	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.18	19.18	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.19	19.19	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.01	20.01	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	21.84	19.84	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	21.77	19.77	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.16	19.16	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.08	19.08	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.05	19.05	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.09	19.09	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.19	20.19	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	21.77	19.77	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	21.81	19.81	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.17	19.17	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.02	19.02	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	20.98	18.98	33.00	PASS



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Band2	10MHz	QPSK	18650	50RB#0	21.06	19.06	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.27	20.27	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	21.93	19.93	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.04	20.04	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.31	19.31	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.14	19.14	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.13	19.13	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.21	19.21	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.25	20.25	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	21.83	19.83	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	21.84	19.84	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.28	19.28	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.10	19.10	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.07	19.07	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.18	19.18	33.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



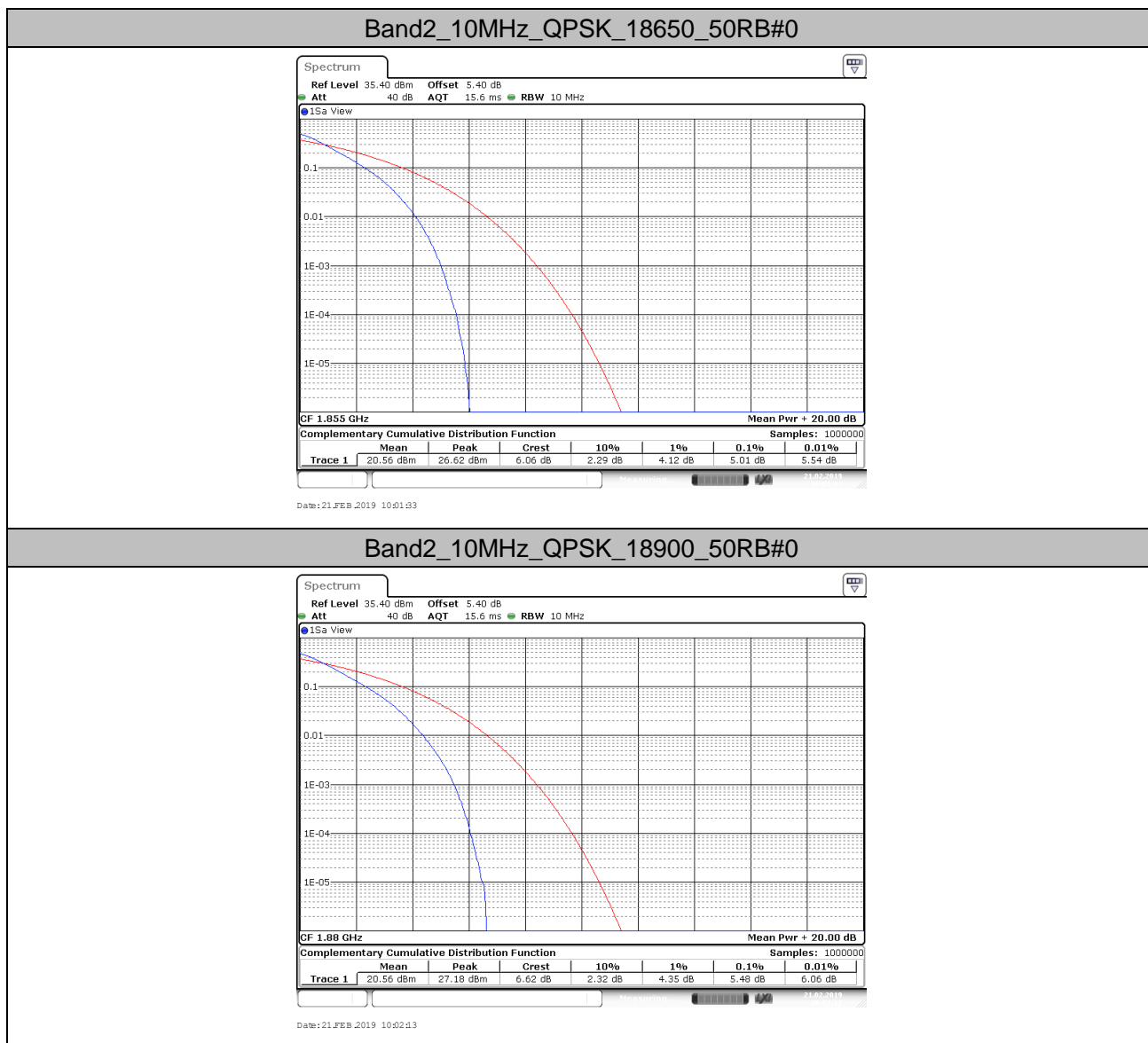
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2. Peak-to-Average Ratio(CCDFF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	10MHz	QPSK	18650	50RB#0	5.01	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.48	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.30	13	PASS

2.2. Test Plots

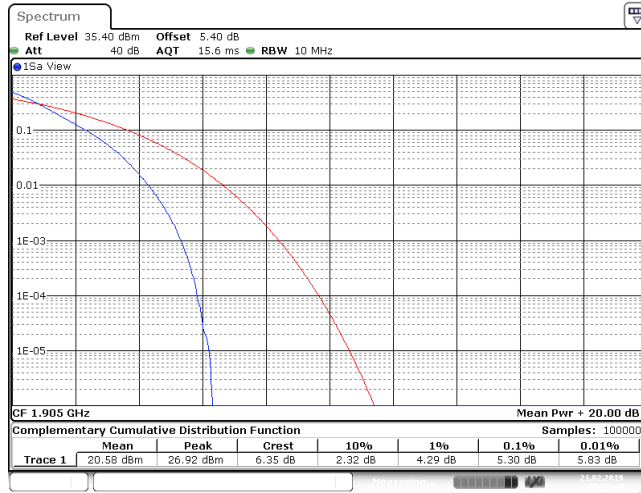


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Band2_10MHz_QPSK_19150_50RB#0



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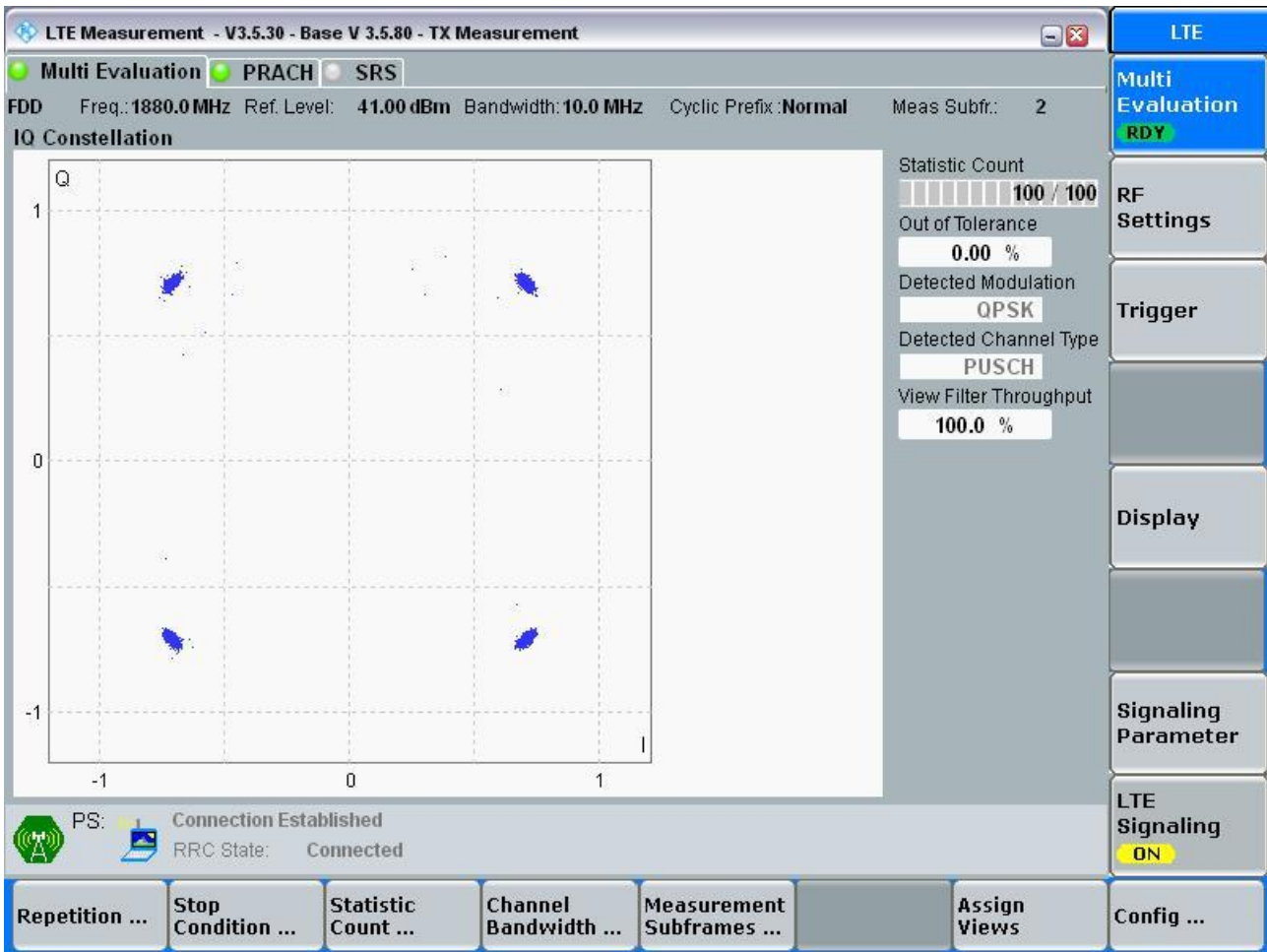
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3. Modulation Characteristics

3.1. Test BAND = LTE BAND2

3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

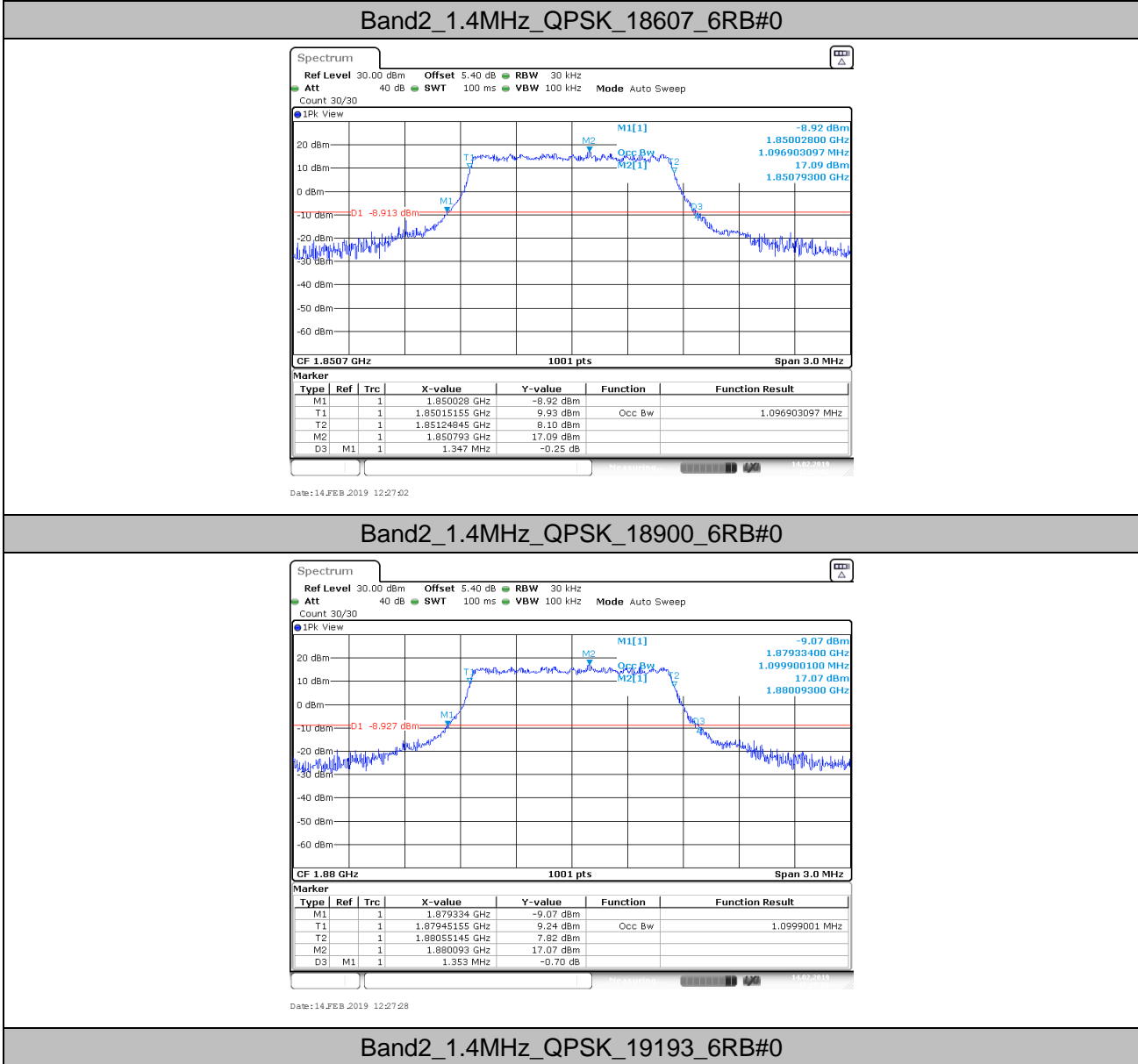
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.097	1.347	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.100	1.353	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.103	1.347	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.703	3.042	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.697	3.018	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.697	3.036	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.466	4.950	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.466	5.000	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.466	4.980	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.931	9.980	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.931	10.000	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.931	10.080	PASS



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4.2. Test Plots



Band2_1.4MHz_QPSK_18900_6RB#0

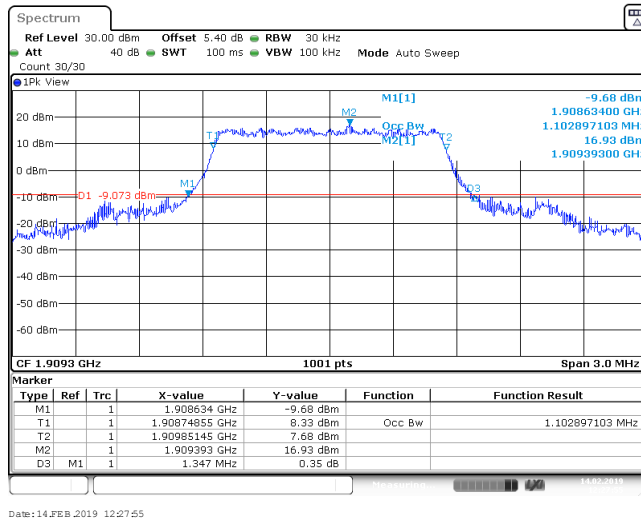
Band2_1.4MHz_QPSK_19193_6RB#0



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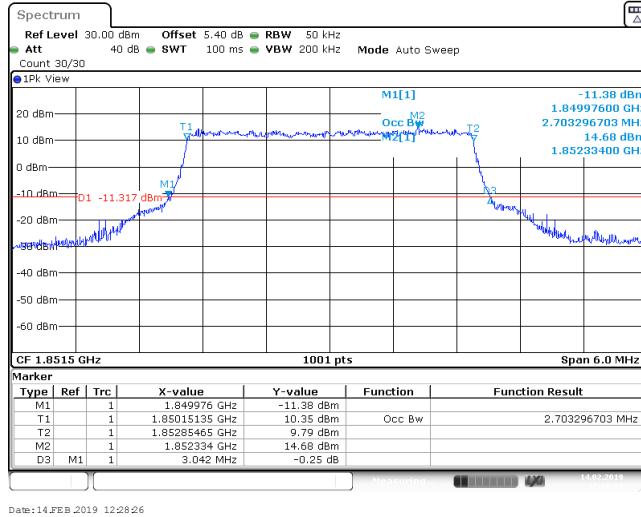
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Date: 14.FEB.2019 12:27:55

Band2_3MHz_QPSK_18615_15RB#0



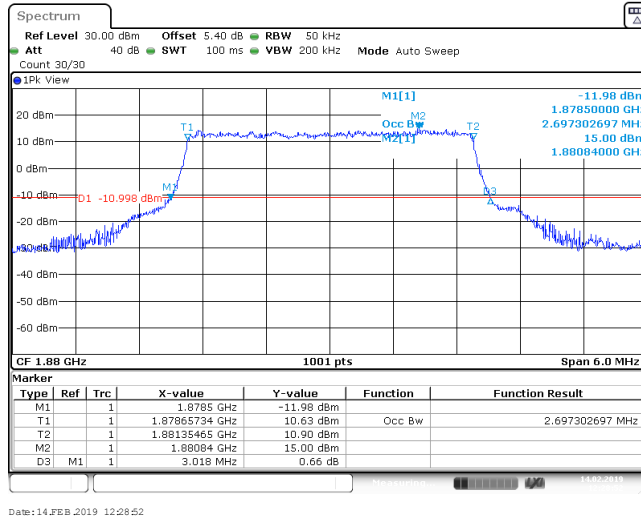
Date: 14.FEB.2019 12:28:26

Band2_3MHz_QPSK_18900_15RB#0



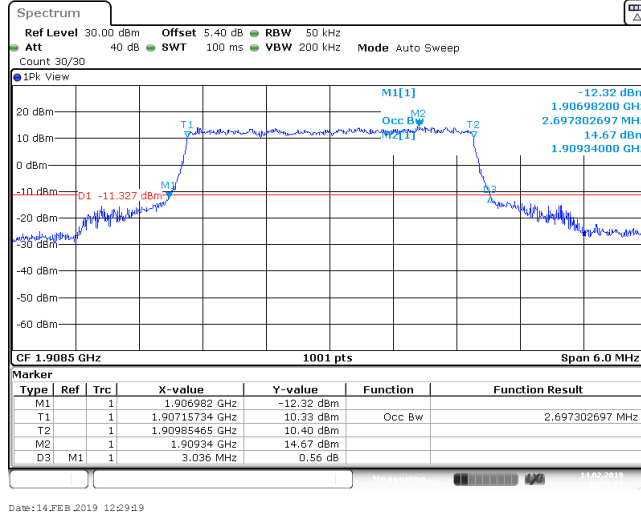
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Date: 14.FEB.2019 12:28:52

Band2_3MHz_QPSK_19185_15RB#0

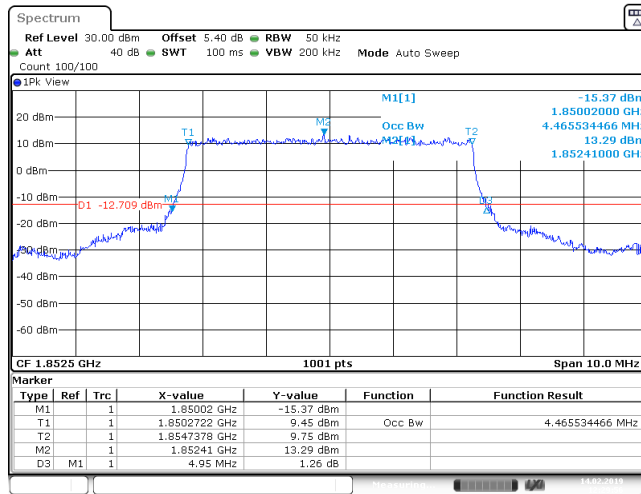


Date: 14.FEB.2019 12:29:19

Band2_5MHz_QPSK_18625_25RB#0

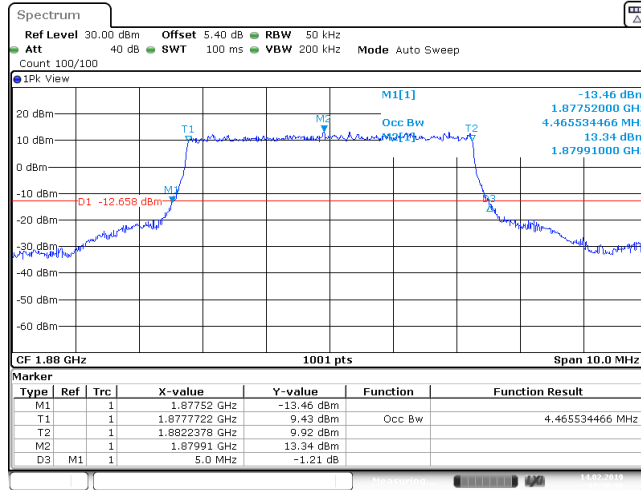


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Date: 14.FEB.2019 12:29:57

Band2_5MHz_QPSK_18900_25RB#0

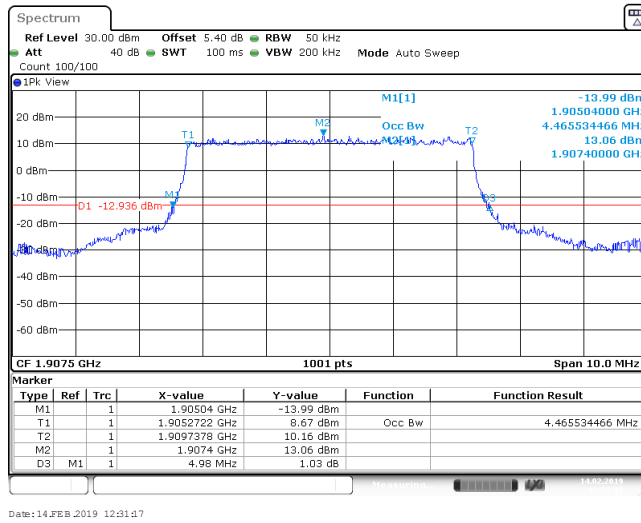


Date: 14.FEB.2019 12:30:37

Band2_5MHz_QPSK_19175_25RB#0

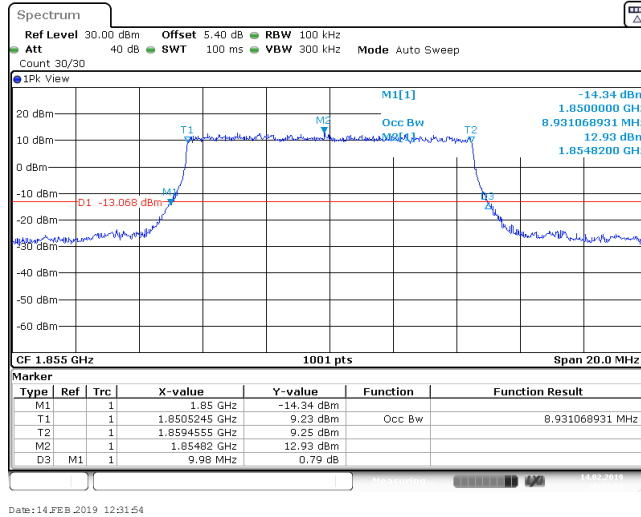


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Date: 14.FEB.2019 12:31:17

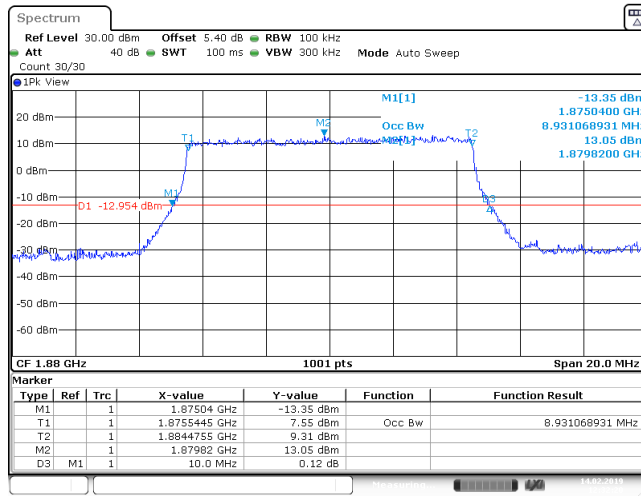
Band2_10MHz_QPSK_18650_50RB#0



Date: 14.FEB.2019 12:31:54

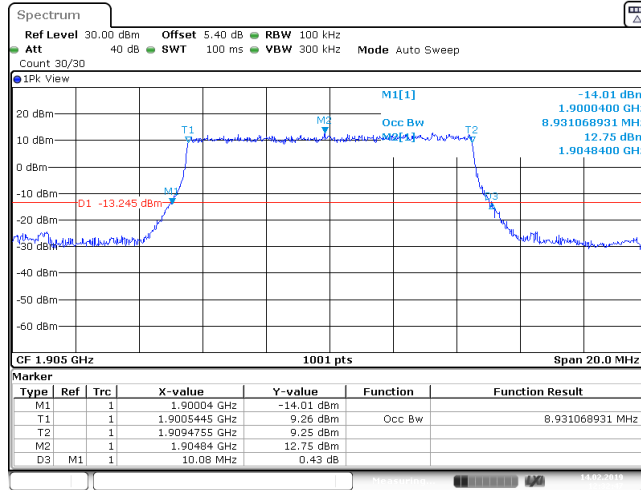
Band2_10MHz_QPSK_18900_50RB#0





Date: 14.FEB.2019 12:32:21

Band2_10MHz_QPSK_19150_50RB#0



Date: 14.FEB.2019 12:32:47

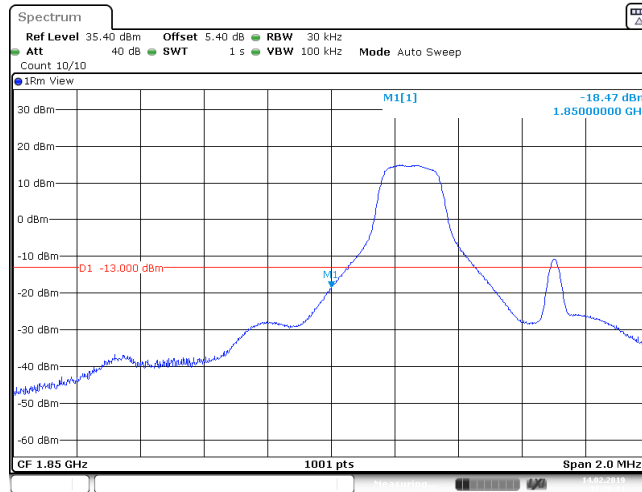


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5. Band Edge Compliance

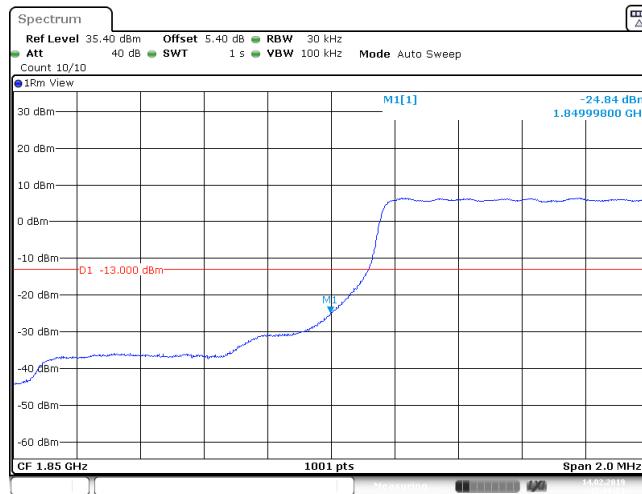
5.1. Test Plots

Band2_1.4MHz_QPSK_18607_1RB#0



Date: 14.FEB.2019 12:36:12

Band2_1.4MHz_QPSK_18607_6RB#0

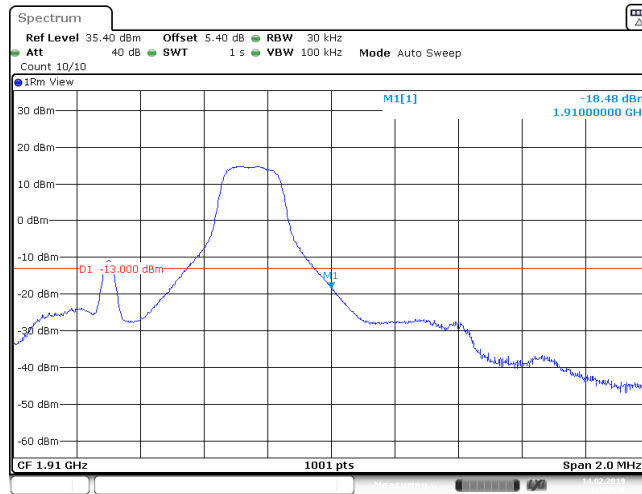


Date: 14.FEB.2019 12:36:52

Band2_1.4MHz_QPSK_19193_1RB#5

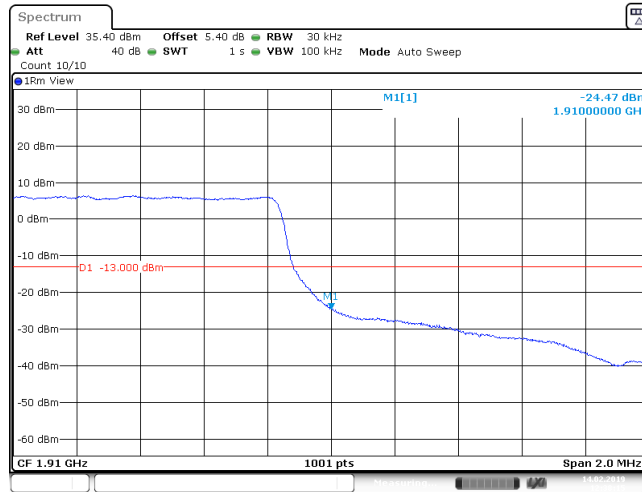


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Date: 14.FEB.2019 12:37:36

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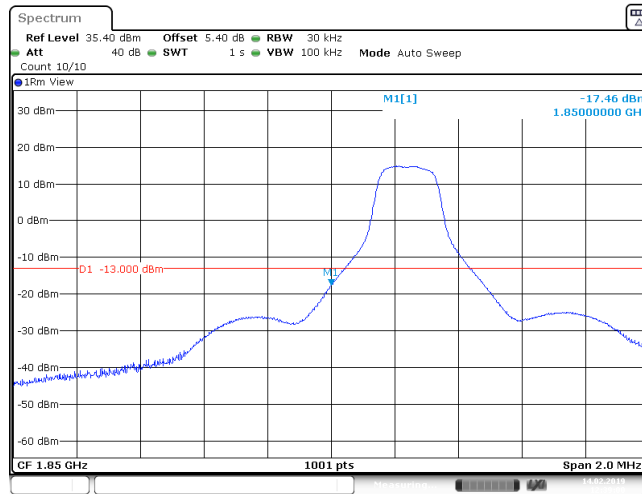


Date: 14.FEB.2019 12:38:16

Band2_3MHz_QPSK_18615_1RB#0

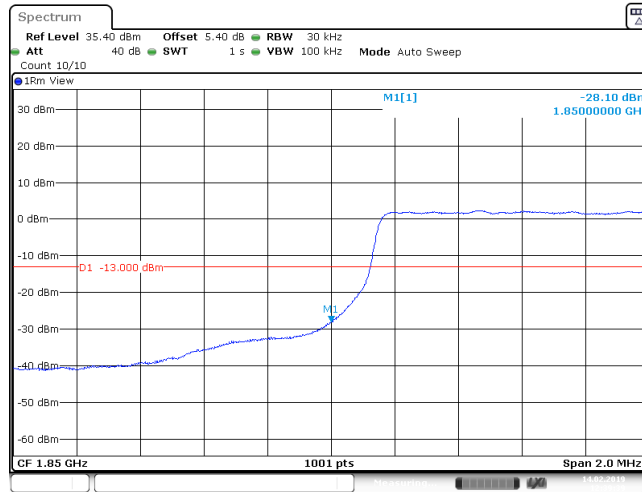


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Date: 14.FEB.2019 12:39:00

Band2_3MHz_QPSK_18615_15RB#0



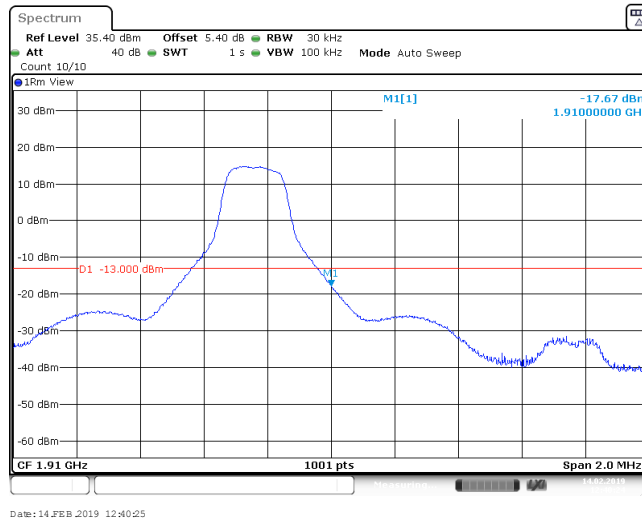
Date: 14.FEB.2019 12:39:00

Band2_3MHz_QPSK_19185_1RB#14

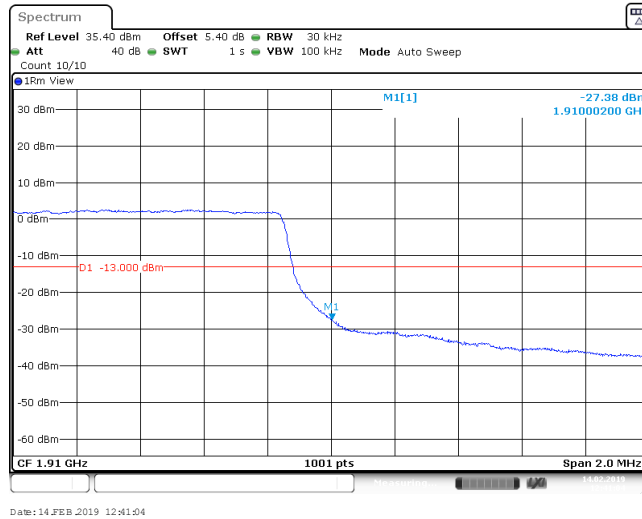


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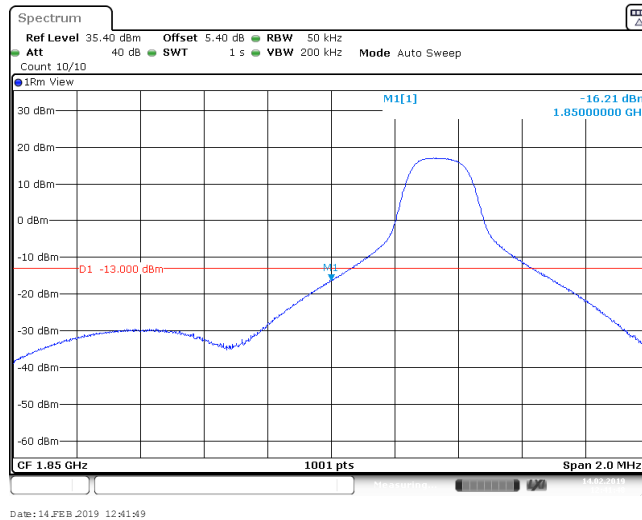
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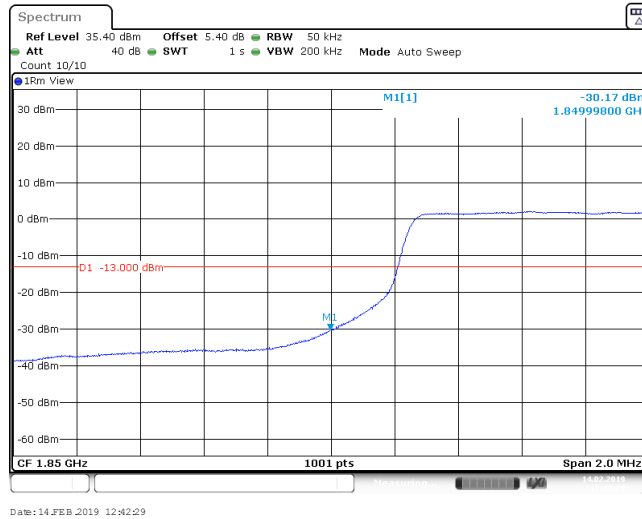
Band2_5MHz_QPSK_18625_1RB#0



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Band2_5MHz_QPSK_18625_25RB#0

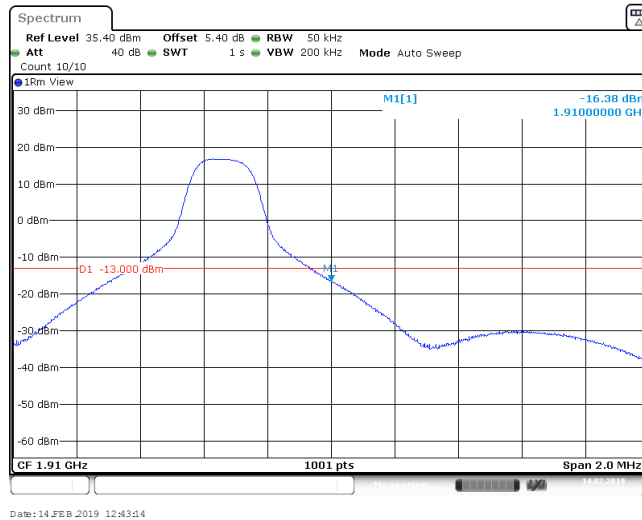


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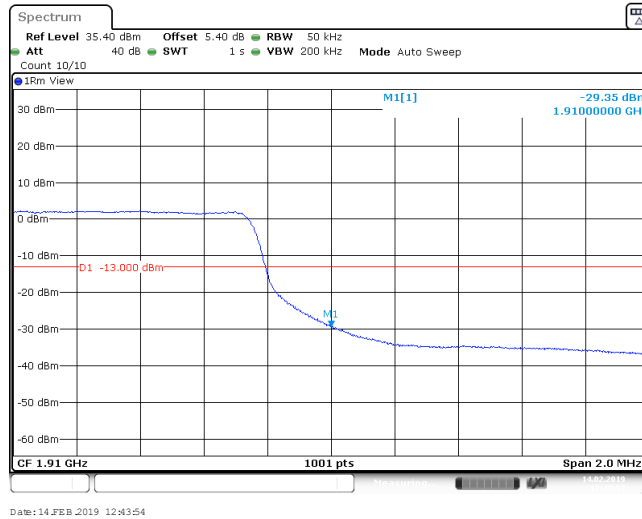


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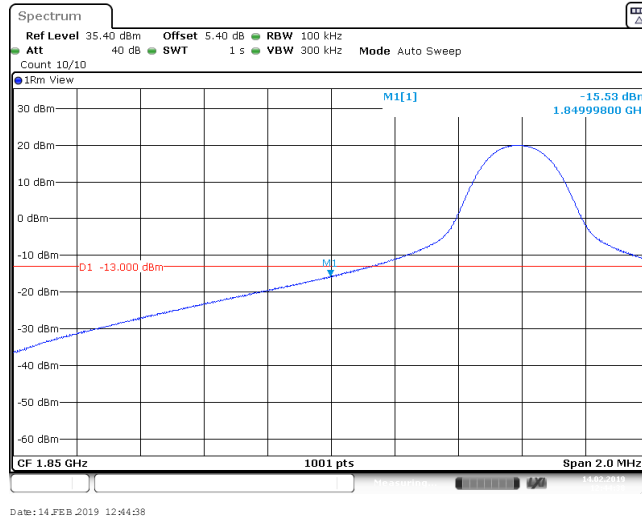
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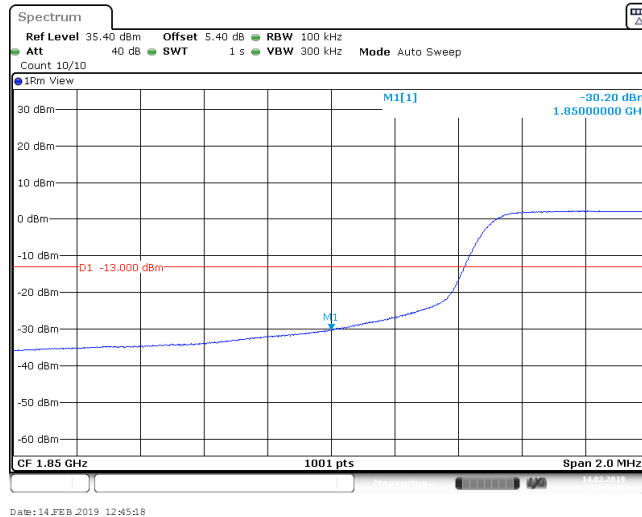
Band2_10MHz_QPSK_18650_1RB#0



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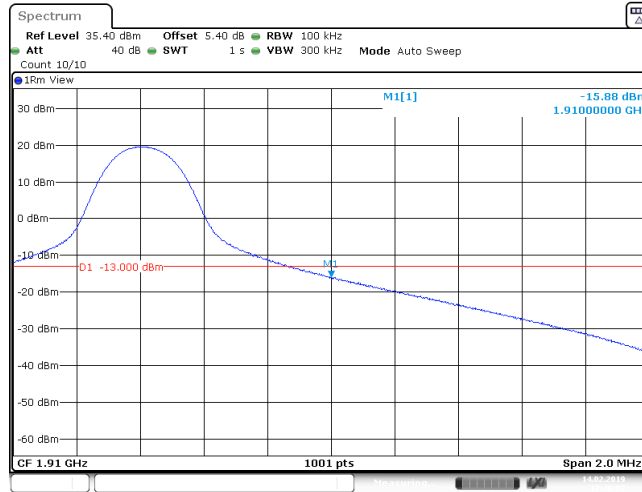
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Band2_10MHz_QPSK_19150_1RB#49

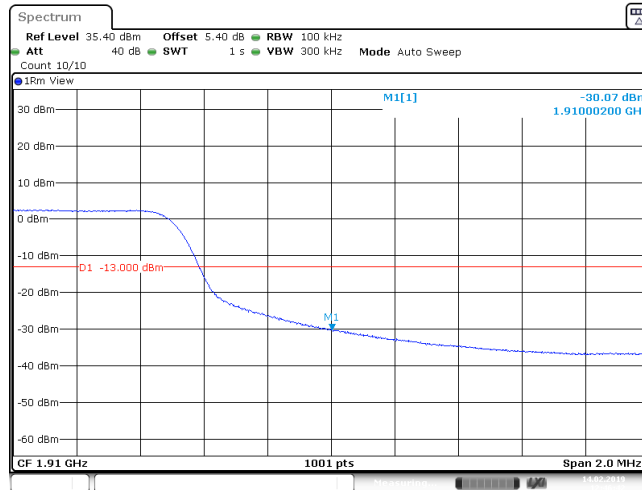


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Date: 14.FEB.2019 12:46:03

Band2_10MHz_QPSK_19150_50RB#0



Date: 14.FEB.2019 12:46:02



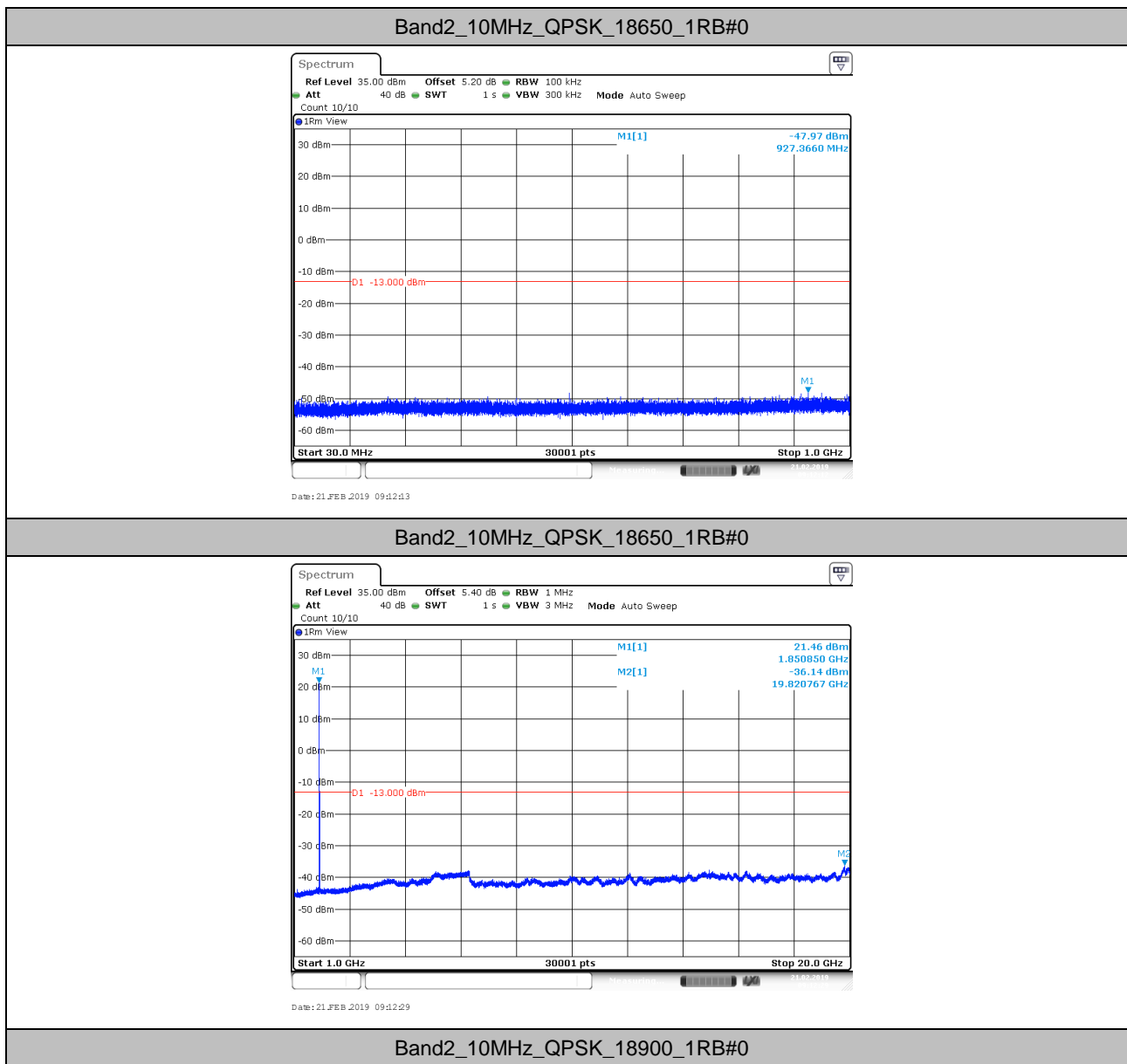
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6. Spurious Emission at Antenna Terminal

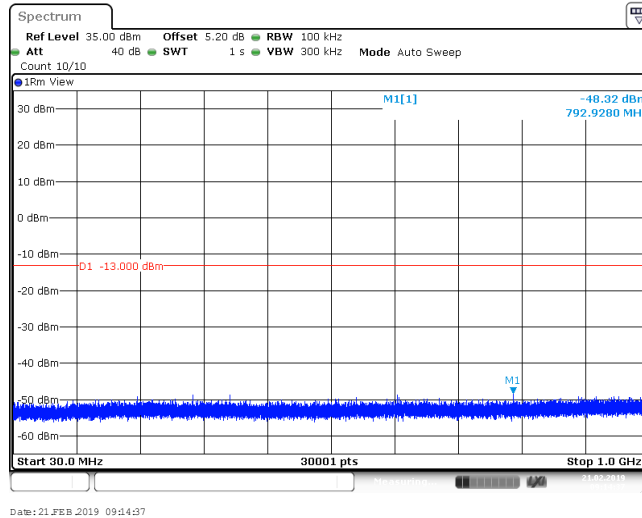
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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.

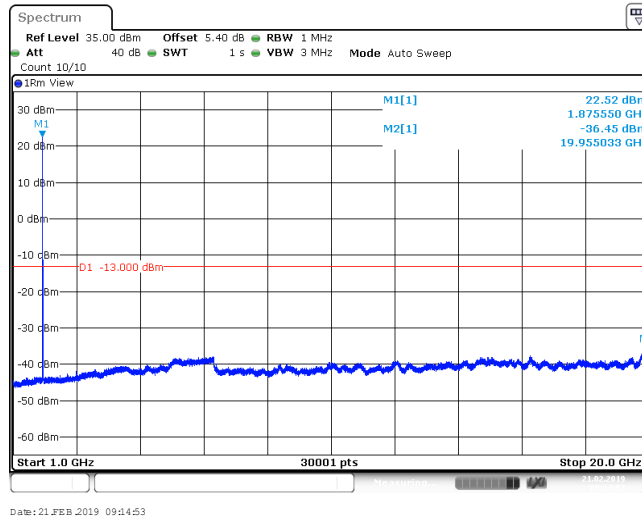
6.1. Test Plots



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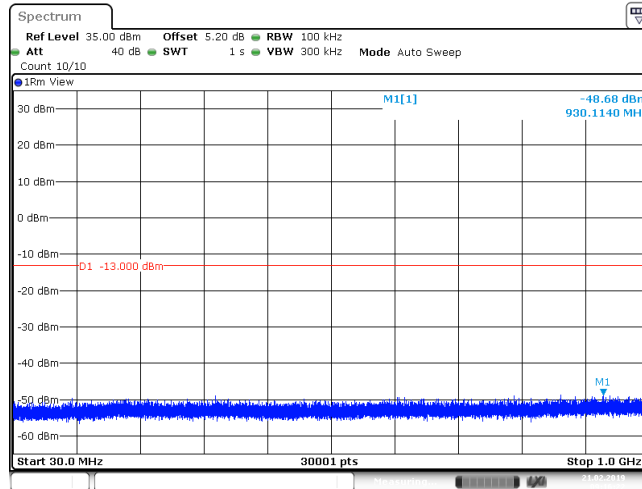
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Band2_10MHz_QPSK_19150_1RB#0

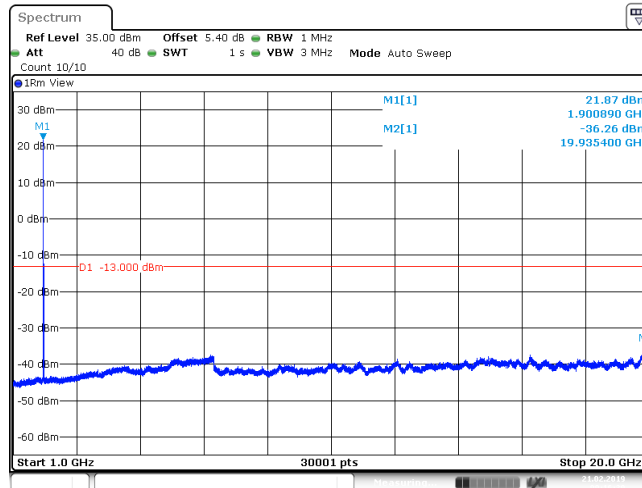


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Date: 21.FEB.2019 09:16:23

Band2_10MHz_QPSK_19150_1RB#0



Date: 21.FEB.2019 09:16:39



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 2

7.1.1. Test Mode = LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.300000	-78.33	-13.00	65.33	Vertical
946.695833	-68.99	-13.00	55.99	Vertical
3701.025000	-41.30	-13.00	28.30	Vertical
4134.575000	-62.08	-13.00	49.08	Vertical
5551.575000	-47.10	-13.00	34.10	Vertical
7402.450000	-47.92	-13.00	34.92	Vertical
62.450000	-76.71	-13.00	63.71	Horizontal
509.720833	-72.69	-13.00	59.69	Horizontal
3701.025000	-39.02	-13.00	26.02	Horizontal
4134.900000	-61.37	-13.00	48.37	Horizontal
5551.575000	-46.48	-13.00	33.48	Horizontal
7402.125000	-48.44	-13.00	35.44	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.800000	-78.94	-13.00	65.94	Vertical
703.962500	-71.14	-13.00	58.14	Vertical
3751.075000	-45.47	-13.00	32.47	Vertical
4134.900000	-62.18	-13.00	49.18	Vertical
5626.650000	-56.62	-13.00	43.62	Vertical
7502.225000	-57.51	-13.00	44.51	Vertical
62.800000	-77.47	-13.00	64.47	Horizontal
509.720833	-73.21	-13.00	60.21	Horizontal



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3751.075000	-43.82	-13.00	30.82	Horizontal
4134.575000	-60.74	-13.00	47.74	Horizontal
5626.325000	-55.87	-13.00	42.87	Horizontal
7502.225000	-57.81	-13.00	44.81	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.150000	-79.05	-13.00	66.05	Vertical
267.000000	-74.85	-13.00	61.85	Vertical
703.916667	-71.77	-13.00	58.77	Vertical
3800.800000	-53.20	-13.00	40.20	Vertical
4134.575000	-62.11	-13.00	49.11	Vertical
5701.725000	-61.26	-13.00	48.26	Vertical
62.050000	-78.00	-13.00	65.00	Horizontal
509.720833	-73.20	-13.00	60.20	Horizontal
3470.925000	-65.54	-13.00	52.54	Horizontal
3801.125000	-48.33	-13.00	35.33	Horizontal
4134.900000	-61.35	-13.00	48.35	Horizontal
5701.725000	-64.49	-13.00	51.49	Horizontal

Remark:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	10MHz	QPSK	18650	50RB#0	VL	NT	-16.26	-0.008765	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	VN	NT	-18.32	-0.009876	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	VH	NT	14.20	0.007655	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	VL	NT	13.93	0.007410	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	VN	NT	10.26	0.005457	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	VH	NT	-11.90	-0.006330	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	VL	NT	10.39	0.005454	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	VN	NT	-11.14	-0.005848	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	VH	NT	-11.62	-0.006100	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	10MHz	QPSK	18650	50RB#0	NV	-30	14.08	0.007590	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	-20	-9.56	-0.005154	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	0	11.20	0.006038	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	10	10.71	0.005774	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	20	-9.73	-0.005245	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	30	-9.56	-0.005154	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	40	12.67	0.006830	±2.5	PASS
Band2	10MHz	QPSK	18650	50RB#0	NV	50	12.37	0.006668	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	-30	13.89	0.007388	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	-20	9.66	0.005138	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	0	14.43	0.007676	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	10	-14.63	-0.007782	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	20	-13.69	-0.007282	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	30	-11.53	-0.006133	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	40	-18.38	-0.009777	±2.5	PASS
Band2	10MHz	QPSK	18900	50RB#0	NV	50	12.25	0.006516	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	-30	11.26	0.005911	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	-20	11.54	0.006058	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	0	10.99	0.005769	±2.5	PASS



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Band2	10MHz	QPSK	19150	50RB#0	NV	10	11.16	0.005858	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	20	13.15	0.006903	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	30	10.47	0.005496	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	40	10.23	0.005370	±2.5	PASS
Band2	10MHz	QPSK	19150	50RB#0	NV	50	11.53	0.006052	±2.5	PASS

The End



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