

## Appendix E: Test Results of Band 13 for eMTC operation

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## Appendix E.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

### Test Result

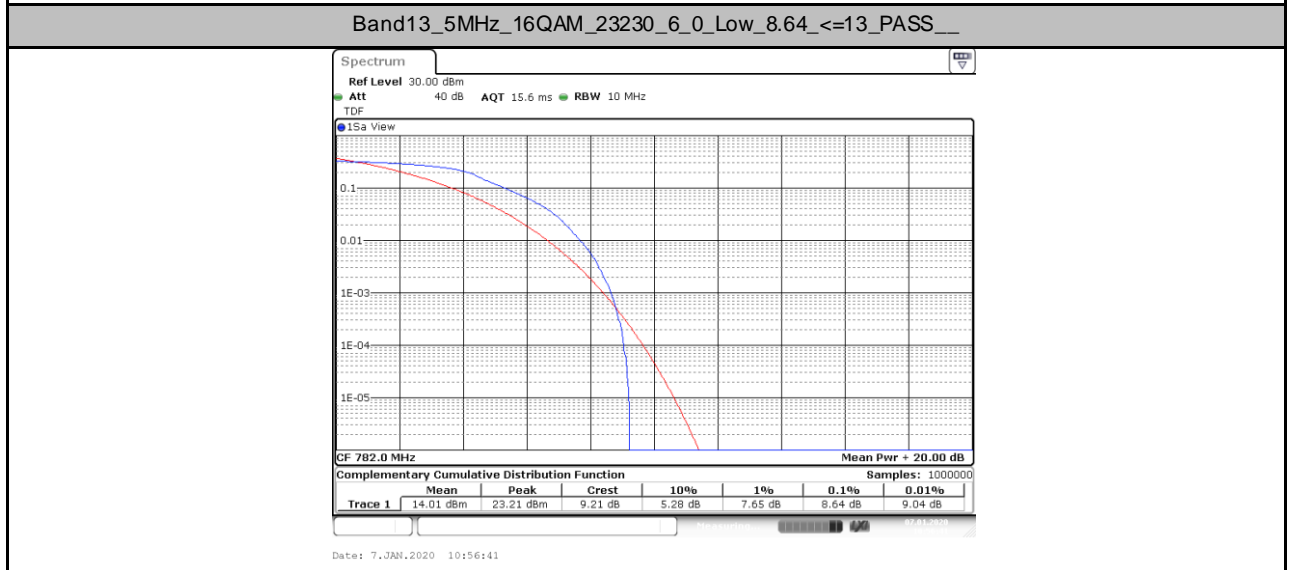
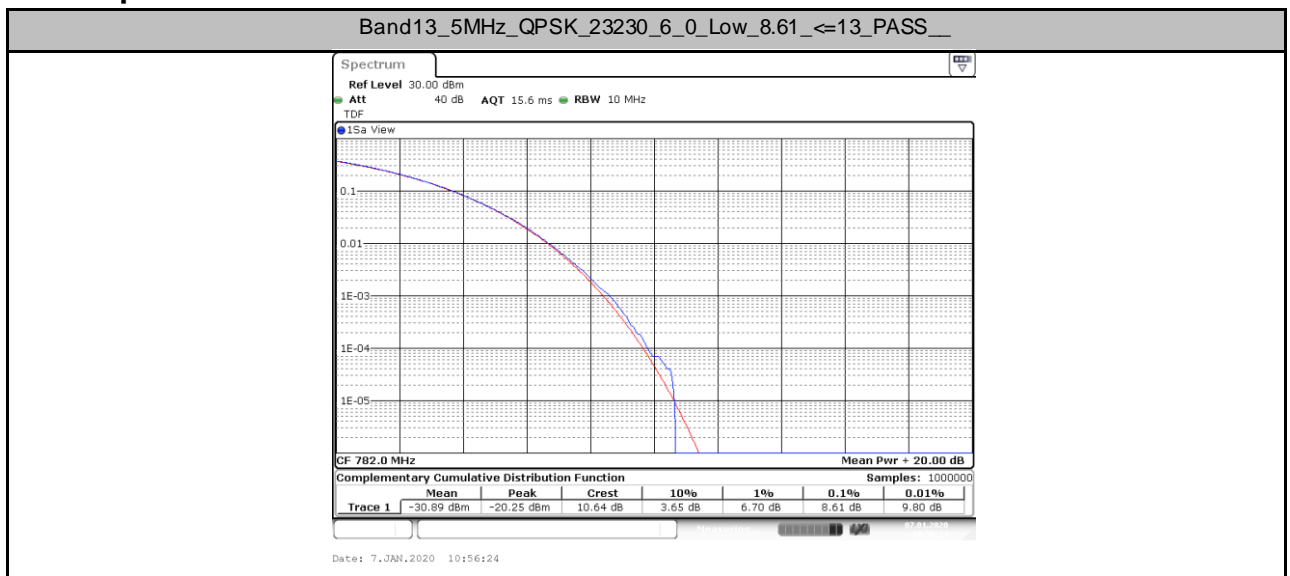
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP		Limit (watts)	Verdict
								dBm	Watts		
Band13	5MHz	QPSK	23205	1	0	Low	23.43	23.42	0.220	3	PASS
Band13	5MHz	QPSK	23230	1	0	Low	23.37	23.36	0.217	3	PASS
Band13	5MHz	QPSK	23255	1	5	High	23.56	23.55	0.226	3	PASS
Band13	5MHz	QPSK	23255	3	3	High	22.68	22.67	0.185	3	PASS
Band13	5MHz	QPSK	23205	6	0	Low	22.44	22.43	0.175	3	PASS
Band13	5MHz	QPSK	23230	6	0	Low	22.34	22.33	0.171	3	PASS
Band13	5MHz	16QAM	23205	1	0	Low	23.51	23.5	0.224	3	PASS
Band13	5MHz	16QAM	23230	1	0	Low	23.31	23.3	0.214	3	PASS
Band13	5MHz	16QAM	23255	1	5	High	23.6	23.59	0.229	3	PASS
Band13	5MHz	16QAM	23255	3	3	High	22.71	22.7	0.186	3	PASS
Band13	5MHz	16QAM	23205	6	0	Low	22.44	22.43	0.175	3	PASS
Band13	5MHz	16QAM	23230	6	0	Low	22.4	22.39	0.173	3	PASS
Band13	10MHz	QPSK	23230	1	0	Low	23.43	23.42	0.220	3	PASS
Band13	10MHz	QPSK	23230	1	5	High	23.53	23.52	0.225	3	PASS
Band13	10MHz	QPSK	23230	5	0	Low	22.47	22.46	0.176	3	PASS
Band13	10MHz	QPSK	23230	5	1	High	22.62	22.61	0.182	3	PASS
Band13	10MHz	16QAM	23230	1	0	Low	23.49	23.48	0.223	3	PASS
Band13	10MHz	16QAM	23230	1	5	High	23.59	23.58	0.228	3	PASS
Band13	10MHz	16QAM	23230	5	0	Low	22.45	22.44	0.175	3	PASS
Band13	10MHz	16QAM	23230	5	1	High	22.61	22.6	0.182	3	PASS

## Appendix E.2: Peak-to-Average Ratio (CCDF) for M1

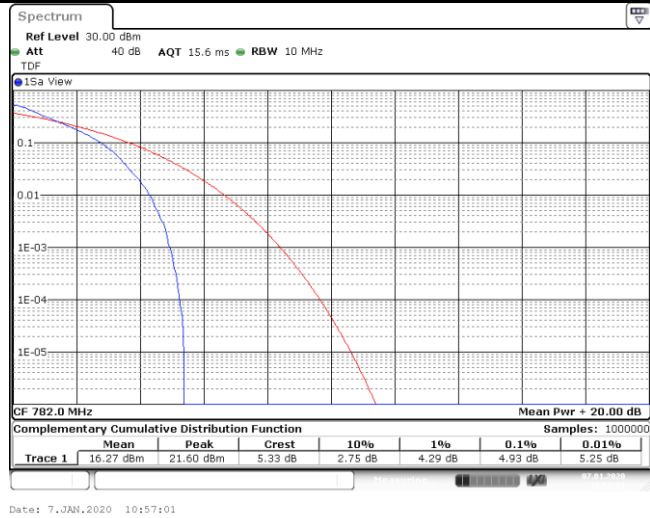
### Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23230	6	0	Low	8.61	<=13	PASS
Band13	5MHz	16QAM	23230	6	0	Low	8.64	<=13	PASS
Band13	10MHz	QPSK	23230	6	0	Low	4.93	<=13	PASS
Band13	10MHz	16QAM	23230	6	0	Low	8.64	<=13	PASS

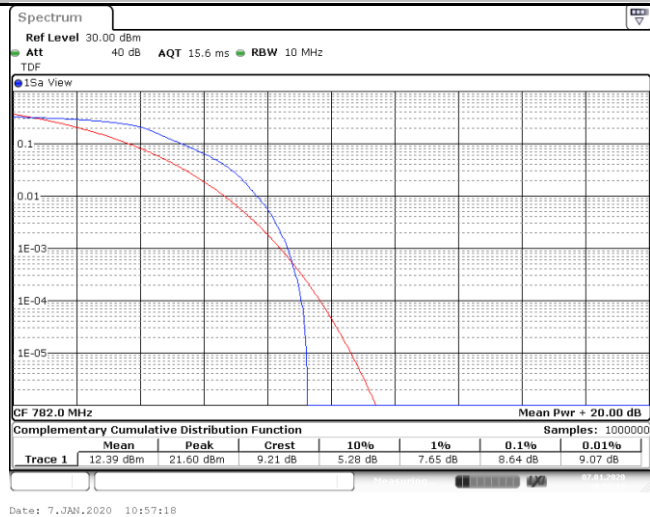
### Test Graphs



Band13\_10MHz\_QPSK\_23230\_6\_0\_Low\_4.93\_<=13\_PASS\_\_



Band13\_10MHz\_16QAM\_23230\_6\_0\_Low\_8.64\_<=13\_PASS\_\_

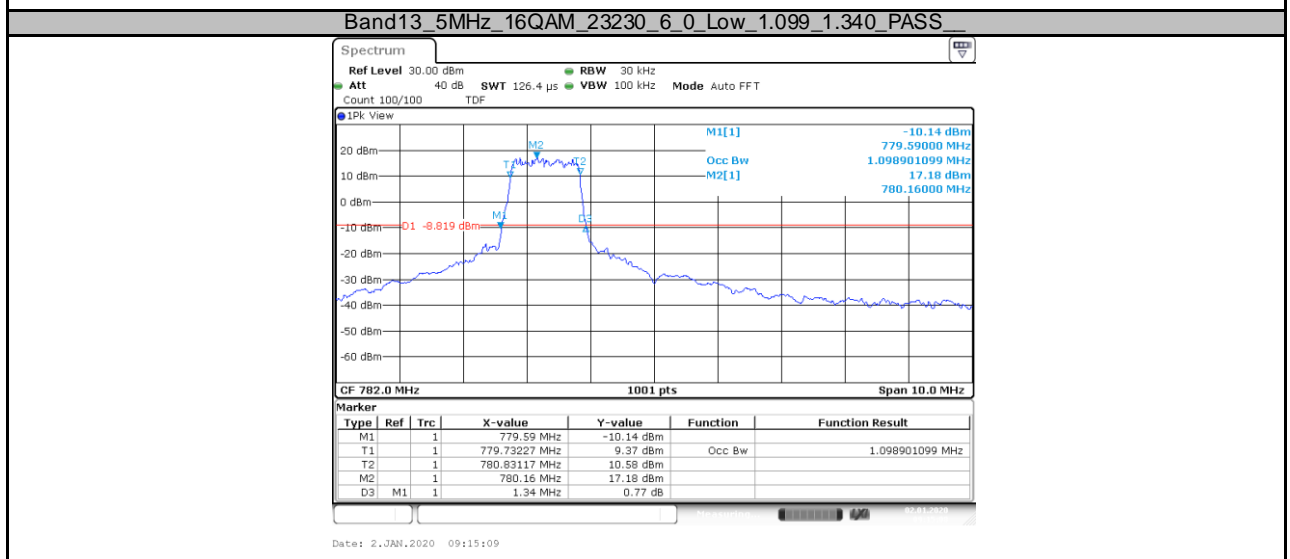
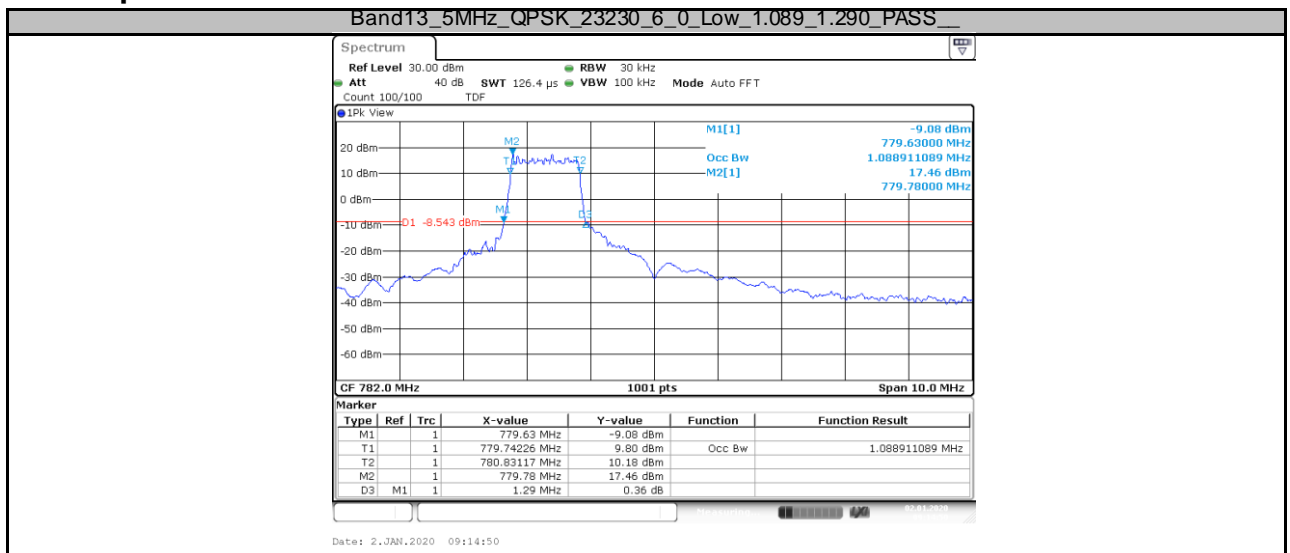


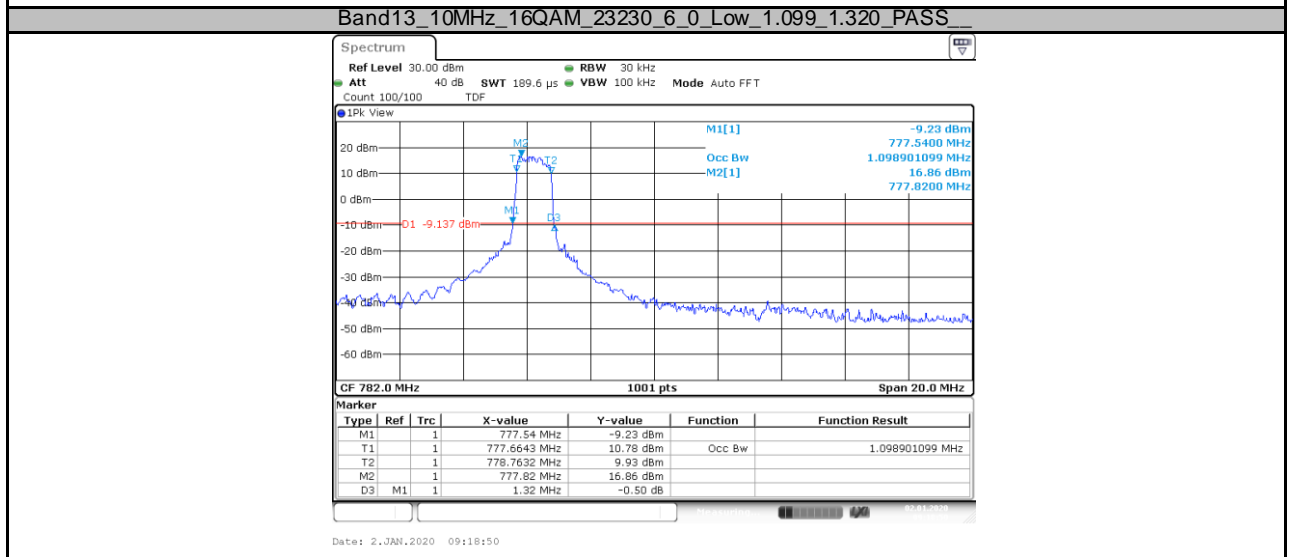
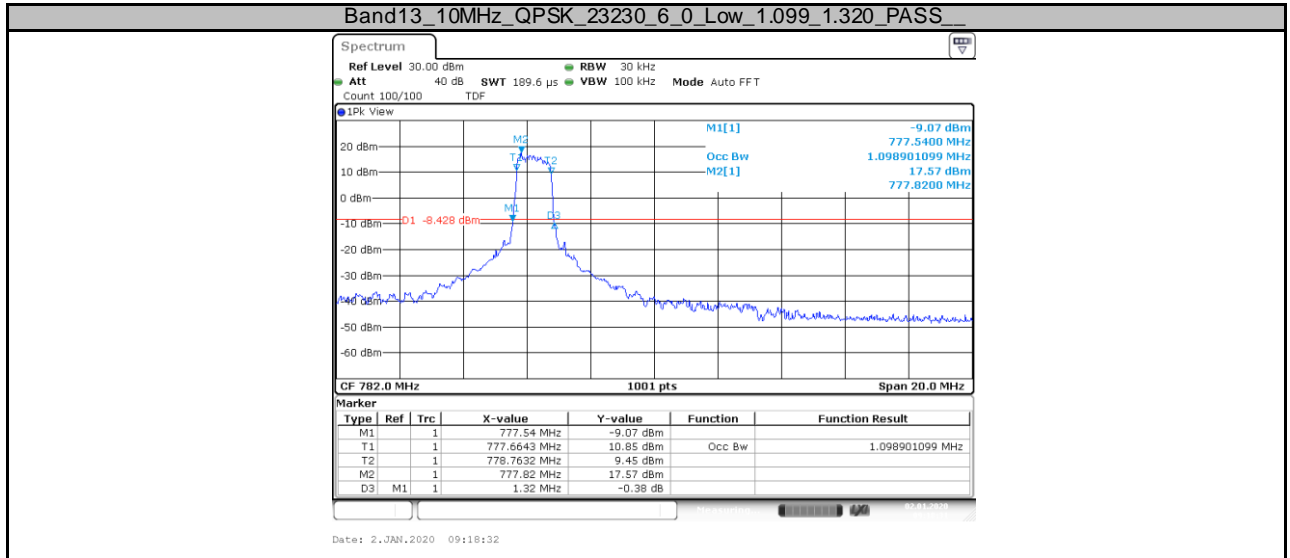
## Appendix E.3: 26dB Bandwidth and Occupied Bandwidth for M1

### Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23230	6	0	Low	1.089	1.290	PASS
Band13	5MHz	16QAM	23230	6	0	Low	1.099	1.340	PASS
Band13	10MHz	QPSK	23230	6	0	Low	1.099	1.320	PASS
Band13	10MHz	16QAM	23230	6	0	Low	1.099	1.320	PASS

### Test Graphs



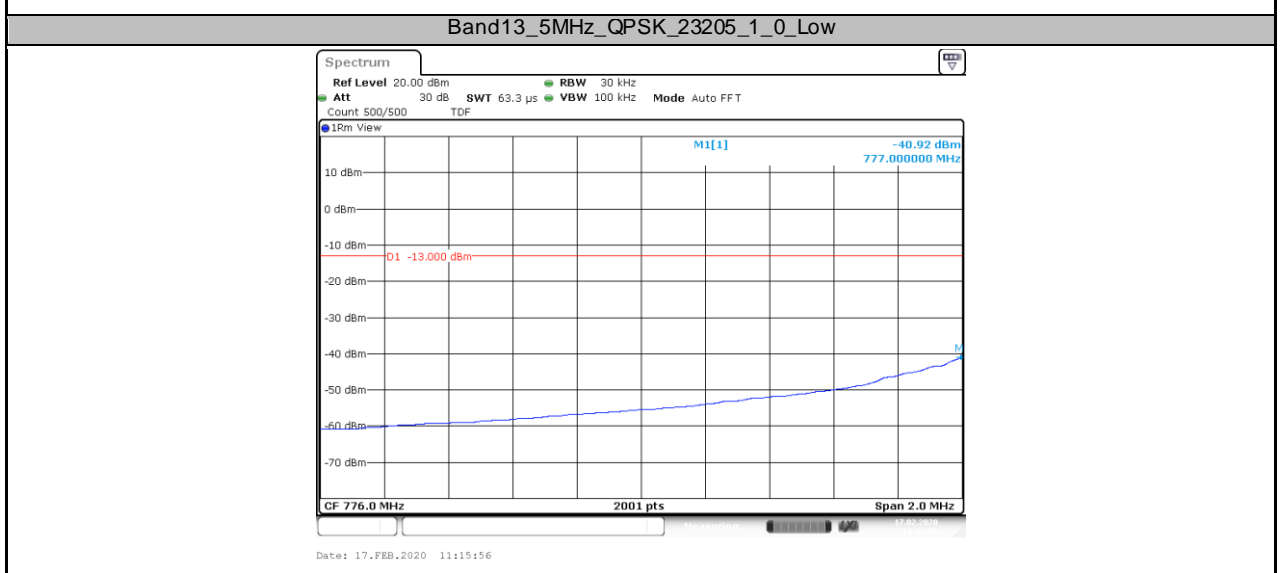
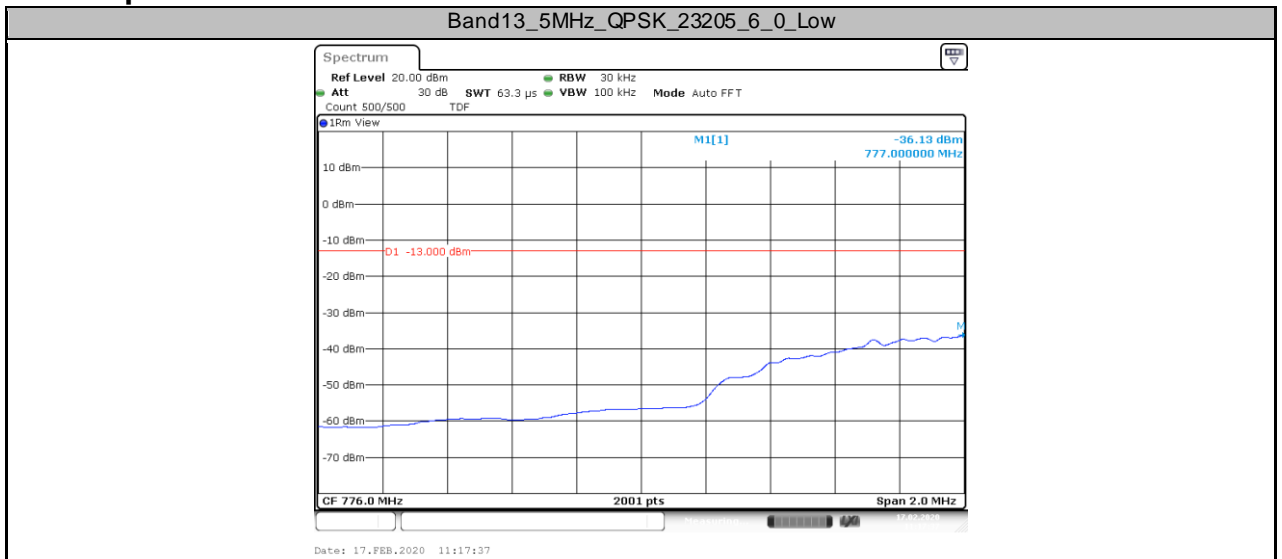


## Appendix E.4: Band Edge for M1

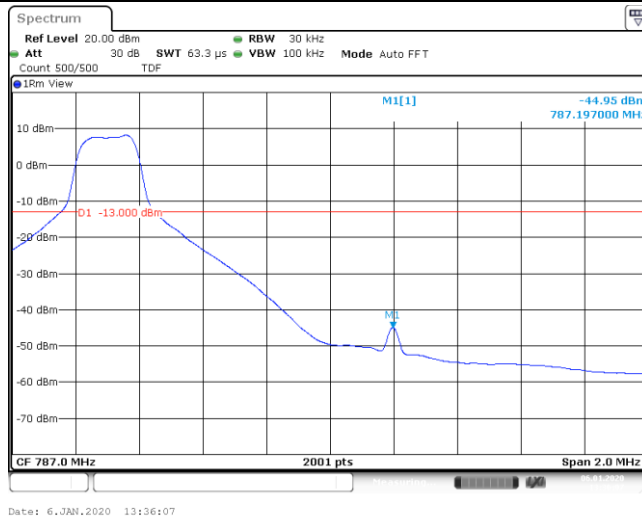
### Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	6	0	Low	-56.56	PASS
Band13	5MHz	QPSK	23205	1	0	Low	-55.44	PASS
Band13	5MHz	QPSK	23255	1	5	High	-44.95	PASS
Band13	5MHz	QPSK	23255	3	3	High	-48.57	PASS
Band13	5MHz	16QAM	23205	6	0	Low	-57.28	PASS
Band13	5MHz	16QAM	23205	1	0	Low	-57.32	PASS
Band13	5MHz	16QAM	23255	1	5	High	-45.28	PASS
Band13	5MHz	16QAM	23255	3	3	High	-50.57	PASS

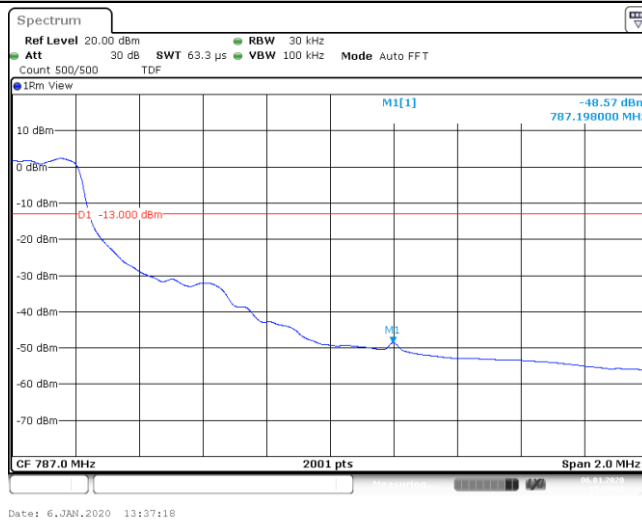
### Test Graphs



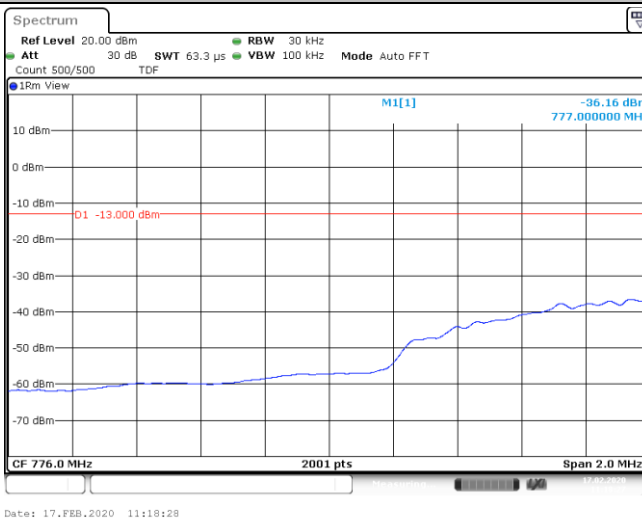
Band13\_5MHz\_QPSK\_23255\_3\_3\_High



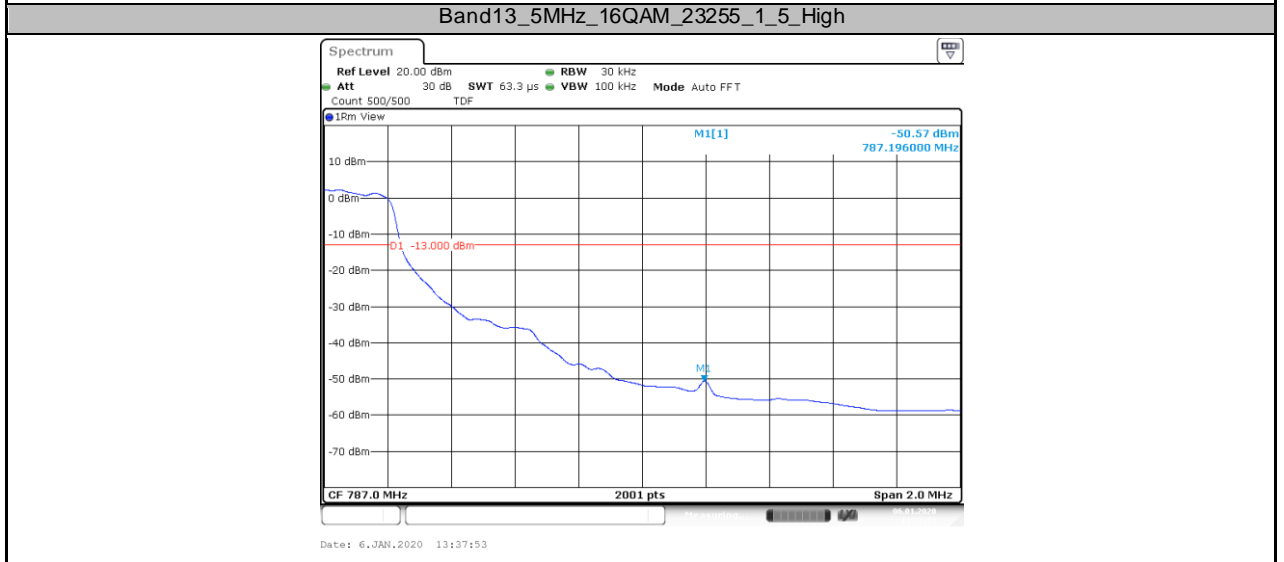
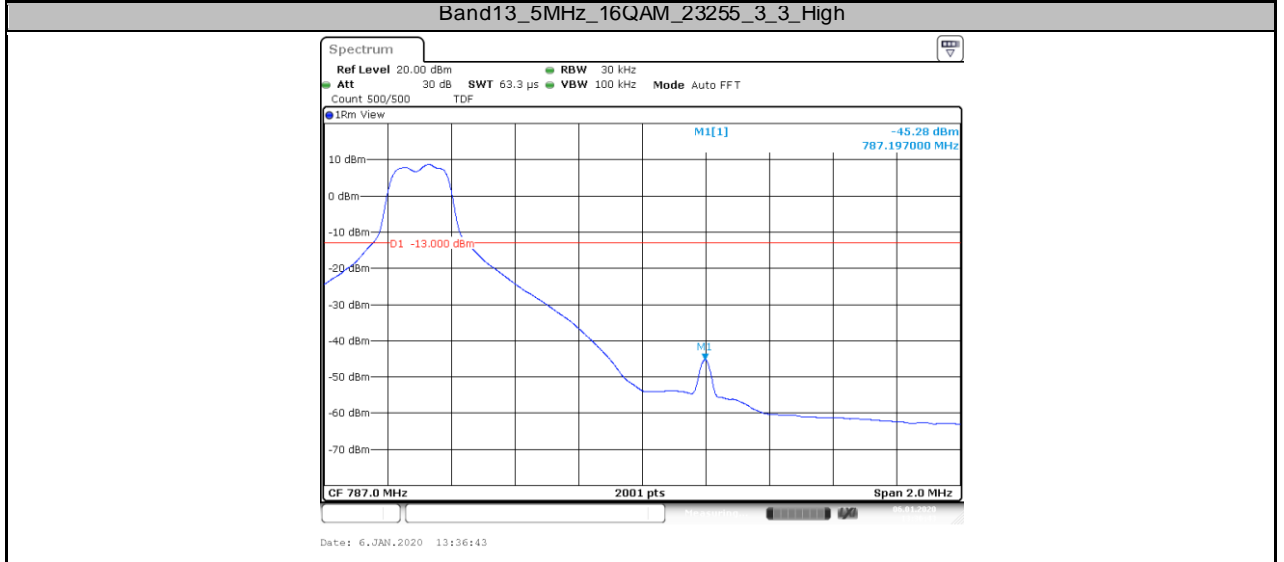
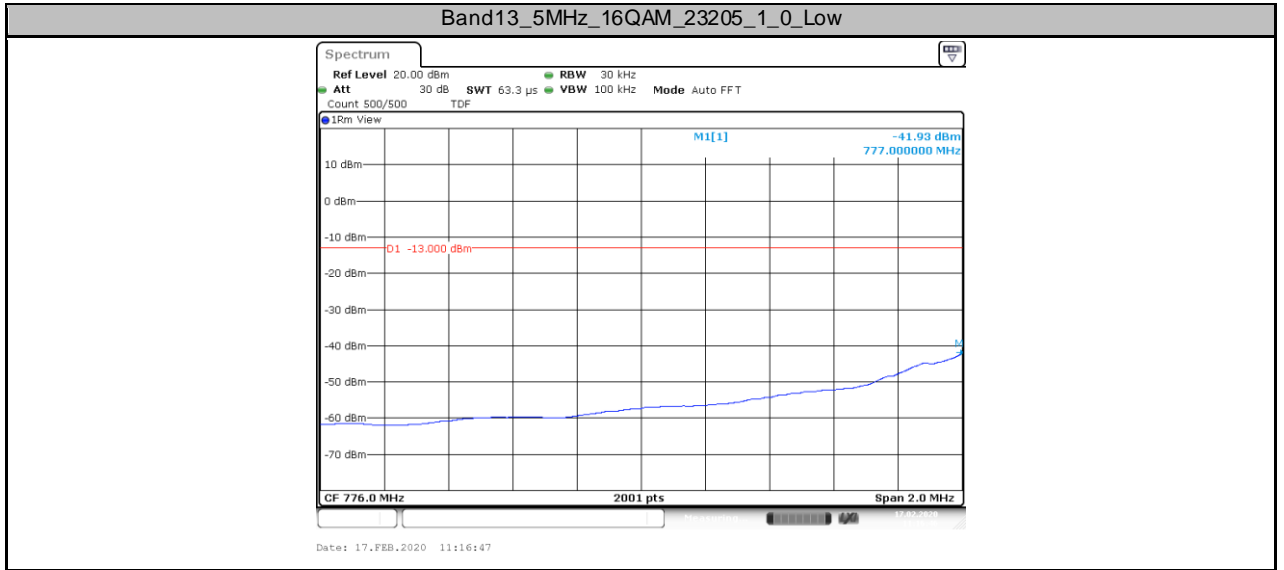
Band13\_5MHz\_QPSK\_23255\_1\_5\_High



Band13\_5MHz\_16QAM\_23205\_6\_0\_Low







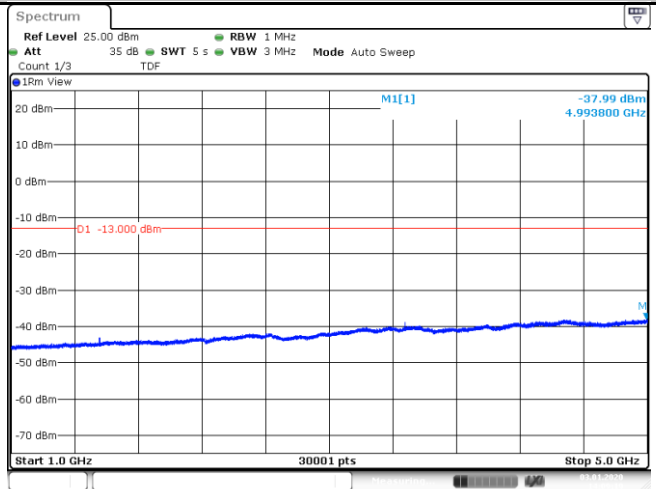
## Appendix E.5: Conducted Spurious Emission for M1

### Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1	0	Low	1000	5000	-37.99	PASS
Band13	5MHz	QPSK	23205	1	0	Low	5000	12000	-47.84	PASS
Band13	5MHz	QPSK	23205	1	0	Low	12000	26500	-41.65	PASS
Band13	5MHz	QPSK	23205	1	0	Low	30	1000	-35.72	PASS
Band13	5MHz	QPSK	23230	1	0	Low	5000	12000	-47.8	PASS
Band13	5MHz	QPSK	23230	1	0	Low	1000	5000	-37.99	PASS
Band13	5MHz	QPSK	23230	1	0	Low	30	1000	-35.38	PASS
Band13	5MHz	QPSK	23230	1	0	Low	12000	26500	-41.58	PASS
Band13	5MHz	QPSK	23255	1	5	High	5000	12000	-47.73	PASS
Band13	5MHz	QPSK	23255	1	5	High	1000	5000	-38.01	PASS
Band13	5MHz	QPSK	23255	1	5	High	12000	26500	-41.61	PASS
Band13	5MHz	QPSK	23255	1	5	High	30	1000	-35.33	PASS
Band13	5MHz	QPSK	23255	3	3	High	12000	26500	-41.62	PASS
Band13	5MHz	QPSK	23255	3	3	High	5000	12000	-47.82	PASS
Band13	5MHz	QPSK	23255	3	3	High	1000	5000	-37.98	PASS
Band13	5MHz	QPSK	23255	3	3	High	30	1000	-35.71	PASS
Band13	5MHz	QPSK	23205	6	0	Low	5000	12000	-47.48	PASS
Band13	5MHz	QPSK	23205	6	0	Low	12000	26500	-41.7	PASS
Band13	5MHz	QPSK	23205	6	0	Low	1000	5000	-38.15	PASS
Band13	5MHz	QPSK	23205	6	0	Low	30	1000	-35.67	PASS
Band13	5MHz	QPSK	23230	6	0	Low	5000	12000	-47.73	PASS
Band13	5MHz	QPSK	23230	6	0	Low	1000	5000	-37.93	PASS
Band13	5MHz	QPSK	23230	6	0	Low	30	1000	-35.83	PASS
Band13	5MHz	QPSK	23230	6	0	Low	12000	26500	-41.66	PASS
Band13	5MHz	16QAM	23205	1	0	Low	12000	26500	-41.58	PASS
Band13	5MHz	16QAM	23205	1	0	Low	30	1000	-34.26	PASS
Band13	5MHz	16QAM	23205	1	0	Low	1000	5000	-38.12	PASS
Band13	5MHz	16QAM	23205	1	0	Low	5000	12000	-47.7	PASS
Band13	5MHz	16QAM	23230	1	0	Low	30	1000	-36.27	PASS
Band13	5MHz	16QAM	23230	1	0	Low	1000	5000	-38.14	PASS
Band13	5MHz	16QAM	23230	1	0	Low	12000	26500	-41.69	PASS
Band13	5MHz	16QAM	23230	1	0	Low	5000	12000	-47.86	PASS
Band13	5MHz	16QAM	23255	1	5	High	12000	26500	-41.6	PASS
Band13	5MHz	16QAM	23255	1	5	High	5000	12000	-47.82	PASS
Band13	5MHz	16QAM	23255	1	5	High	1000	5000	-38.06	PASS
Band13	5MHz	16QAM	23255	1	5	High	30	1000	-35.82	PASS
Band13	5MHz	16QAM	23255	3	3	High	1000	5000	-37.91	PASS
Band13	5MHz	16QAM	23255	3	3	High	30	1000	-35.27	PASS
Band13	5MHz	16QAM	23255	3	3	High	5000	12000	-47.77	PASS
Band13	5MHz	16QAM	23255	3	3	High	12000	26500	-41.5	PASS
Band13	5MHz	16QAM	23205	6	0	Low	1000	5000	-38.06	PASS
Band13	5MHz	16QAM	23205	6	0	Low	5000	12000	-47.71	PASS
Band13	5MHz	16QAM	23205	6	0	Low	12000	26500	-41.51	PASS
Band13	5MHz	16QAM	23205	6	0	Low	30	1000	-36.04	PASS
Band13	5MHz	16QAM	23230	6	0	Low	1000	5000	-38.03	PASS
Band13	5MHz	16QAM	23230	6	0	Low	5000	12000	-47.76	PASS
Band13	5MHz	16QAM	23230	6	0	Low	30	1000	-35.51	PASS
Band13	5MHz	16QAM	23230	6	0	Low	12000	26500	-41.63	PASS

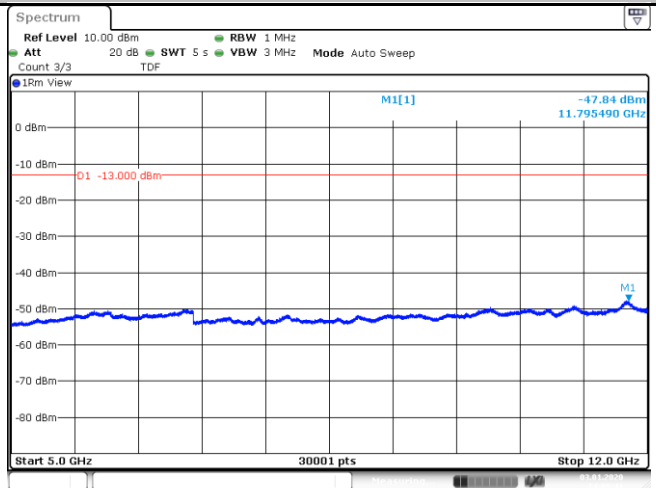
### Test Graphs

Band13\_5MHz\_QPSK\_23205\_1\_0\_Low\_1000\_5000\_-37.99\_PASS\_



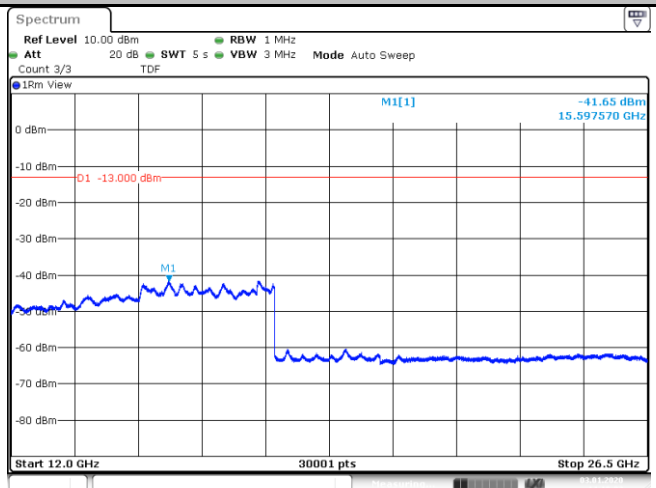
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Band13\_5MHz\_QPSK\_23205\_1\_0\_Low\_5000\_12000\_-47.84\_PASS\_



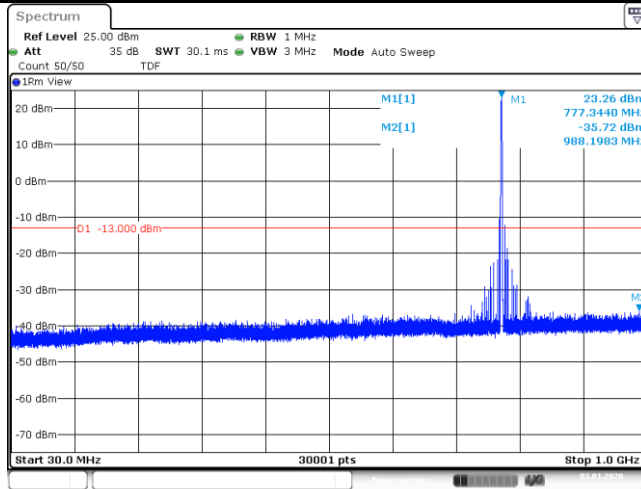
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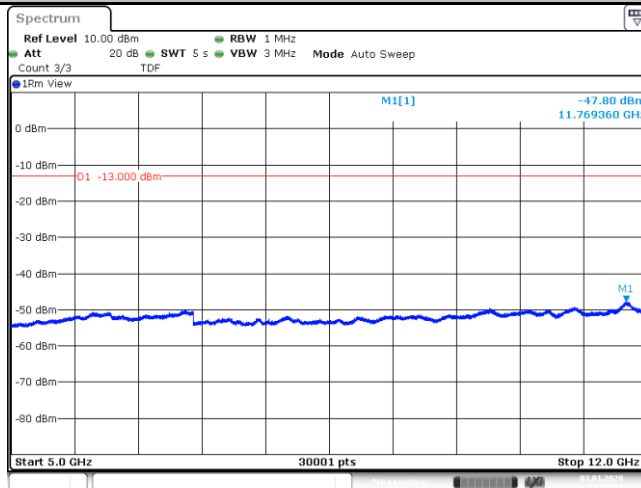
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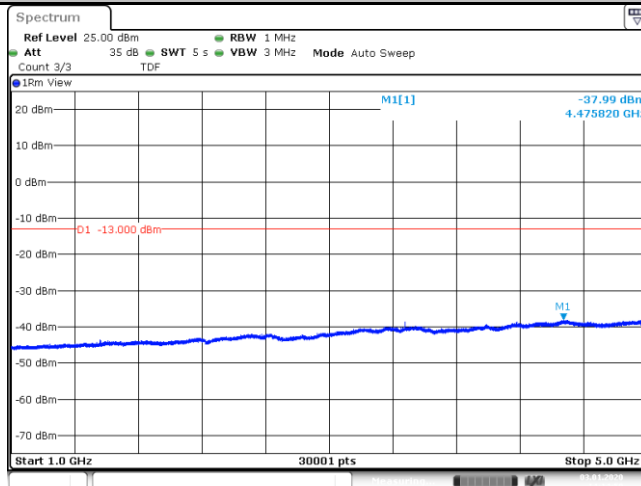
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Band13\_5MHz\_QPSK\_23230\_1\_0\_Low\_5000\_12000\_-47.8\_PASS\_\_



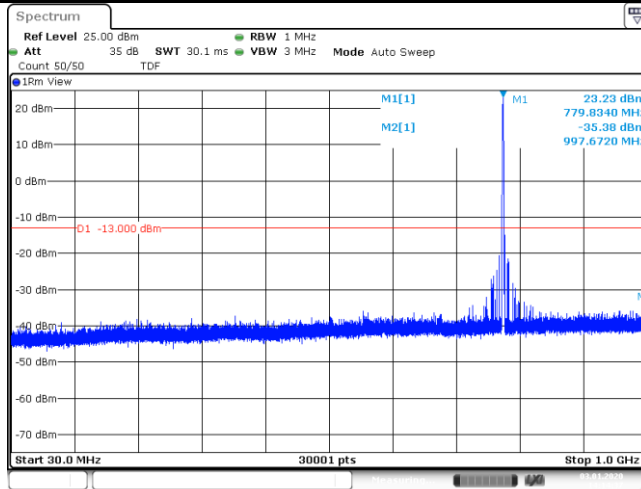
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Band13\_5MHz\_QPSK\_23230\_1\_0\_Low\_1000\_5000\_-37.99\_PASS\_\_



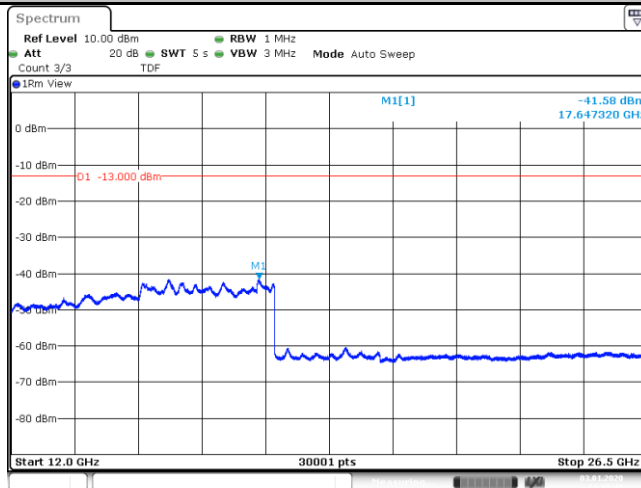
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Band13\_5MHz\_QPSK\_23230\_1\_0\_Low\_30\_1000\_-35.38\_PASS



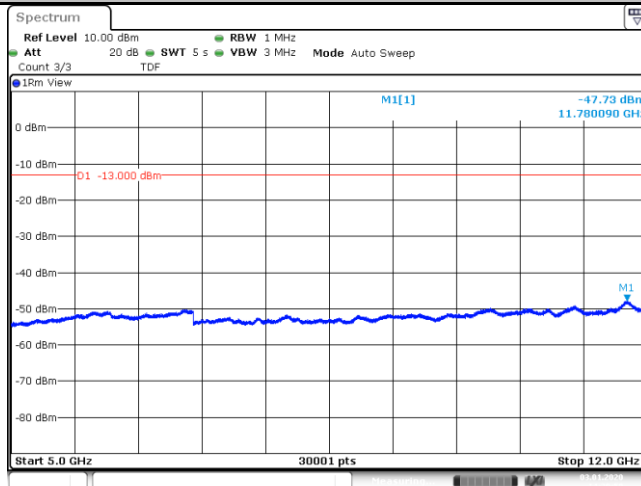
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Band13\_5MHz\_QPSK\_23230\_1\_0\_Low\_12000\_26500\_-41.58\_PASS



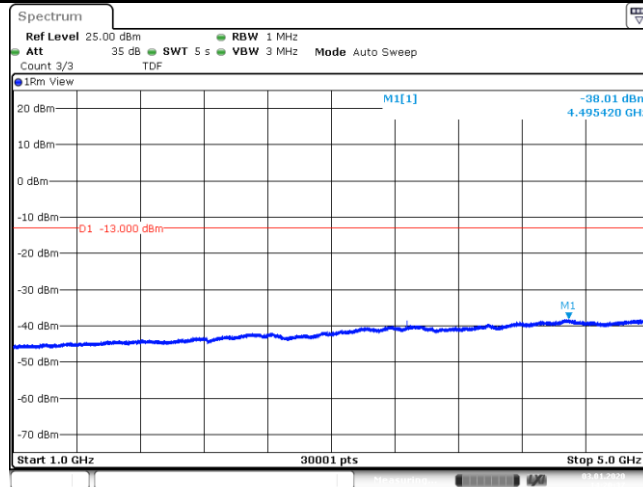
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Band13\_5MHz\_QPSK\_23255\_1\_5\_High\_5000\_12000\_-47.73\_PASS



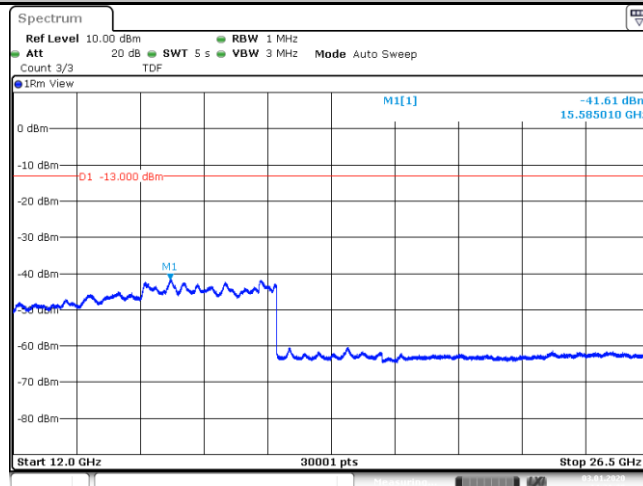
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Band13\_5MHz\_QPSK\_23255\_1\_5\_High\_1000\_5000\_-38.01\_PASS\_



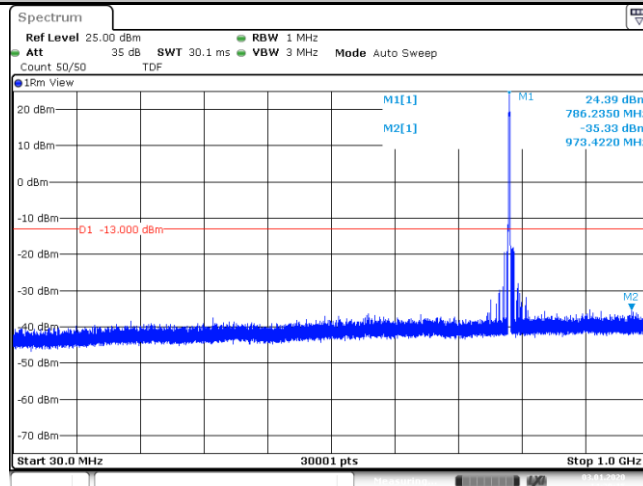
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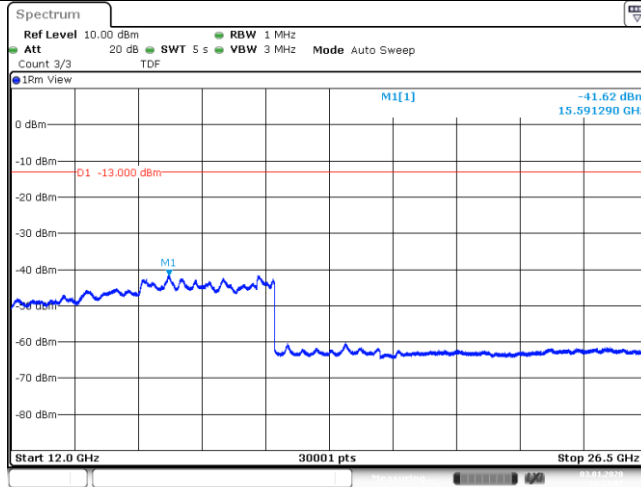
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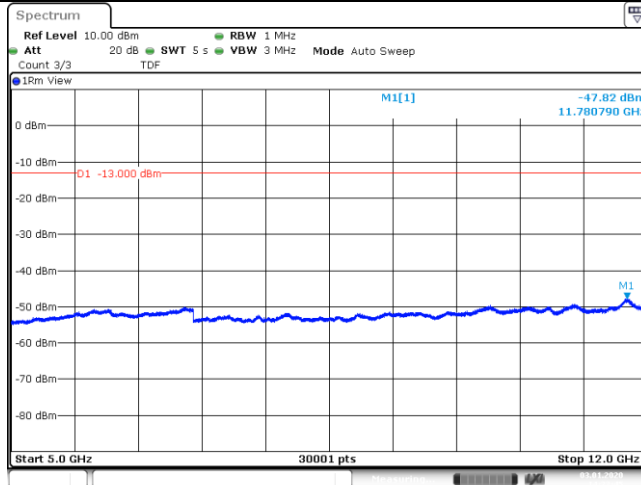
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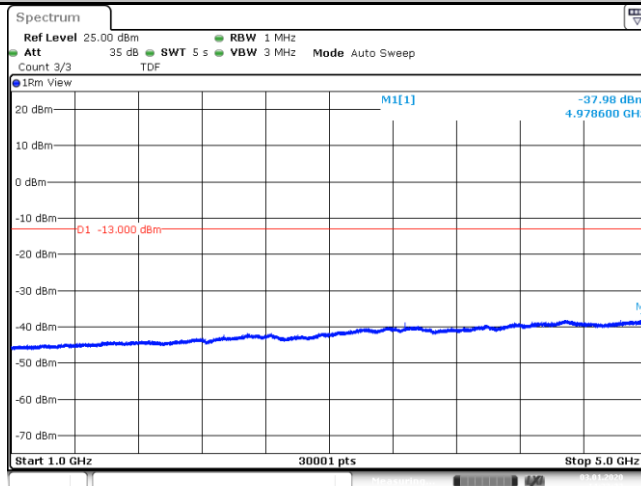
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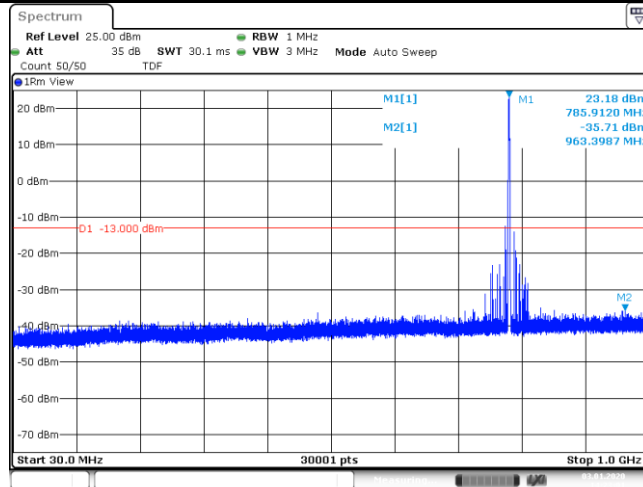
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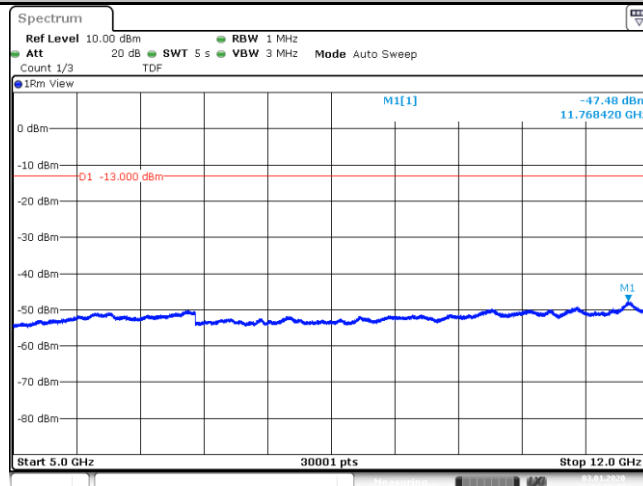
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Band13\_5MHz\_QPSK\_23255\_3\_3\_High\_30\_1000\_-35.71\_PASS\_\_



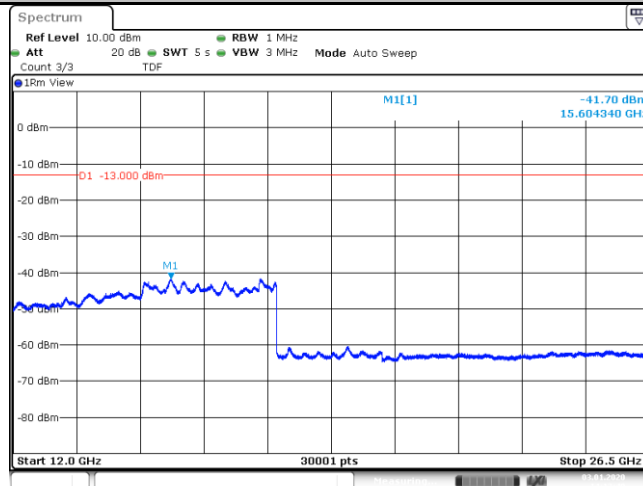
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Band13\_5MHz\_QPSK\_23205\_6\_0\_Low\_5000\_12000\_-47.48\_PASS\_\_



Date: 3.JAN.2020 14:12:27

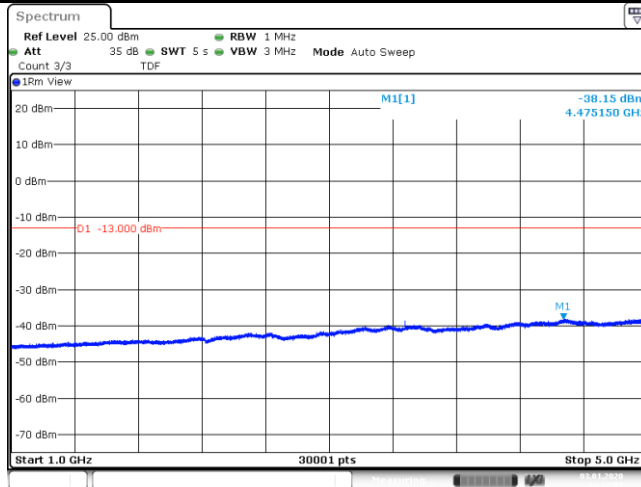
Band13\_5MHz\_QPSK\_23205\_6\_0\_Low\_12000\_26500\_-41.7\_PASS\_\_



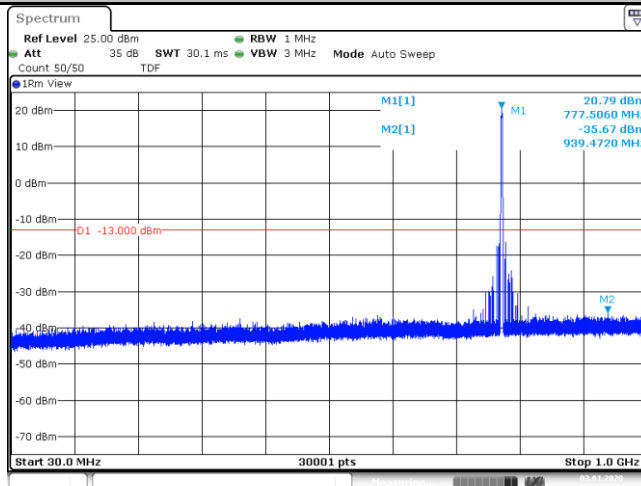
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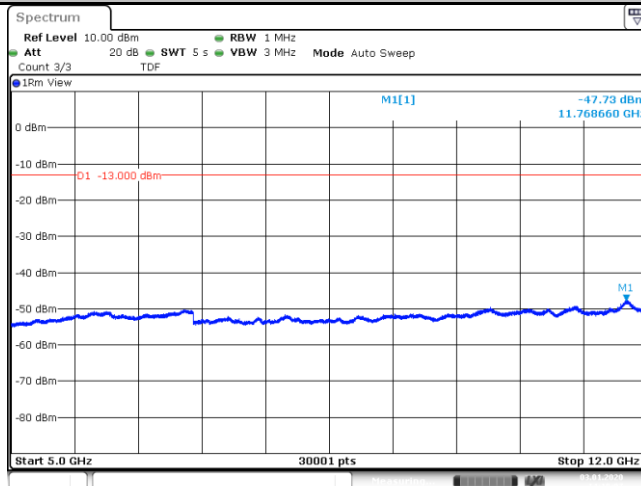
Band13\_5MHz\_QPSK\_23205\_6\_0\_Low\_1000\_5000\_-38.15\_PASS\_



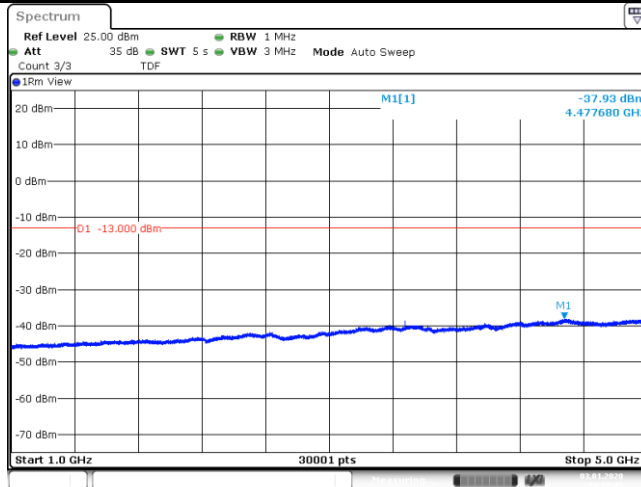
Band13\_5MHz\_QPSK\_23205\_6\_0\_Low\_30\_1000\_-35.67\_PASS\_



Band13\_5MHz\_QPSK\_23230\_6\_0\_Low\_5000\_12000\_-47.73\_PASS\_

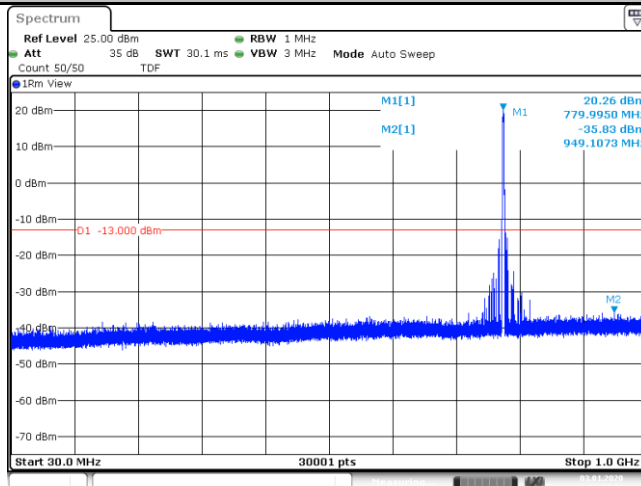


Band13\_5MHz\_QPSK\_23230\_6\_0\_Low\_1000\_5000\_-37.93\_PASS\_\_



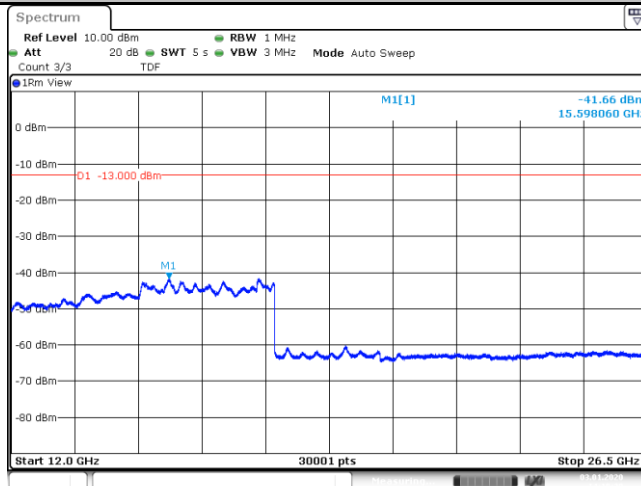
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Band13\_5MHz\_QPSK\_23230\_6\_0\_Low\_30\_1000\_-35.83\_PASS\_\_



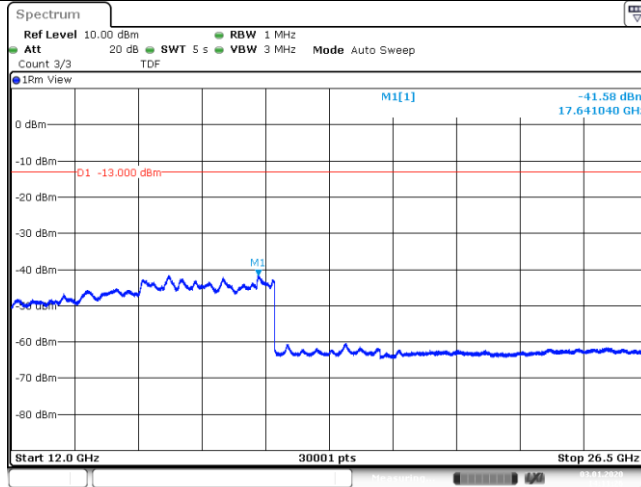
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Band13\_5MHz\_QPSK\_23230\_6\_0\_Low\_12000\_26500\_-41.66\_PASS\_\_



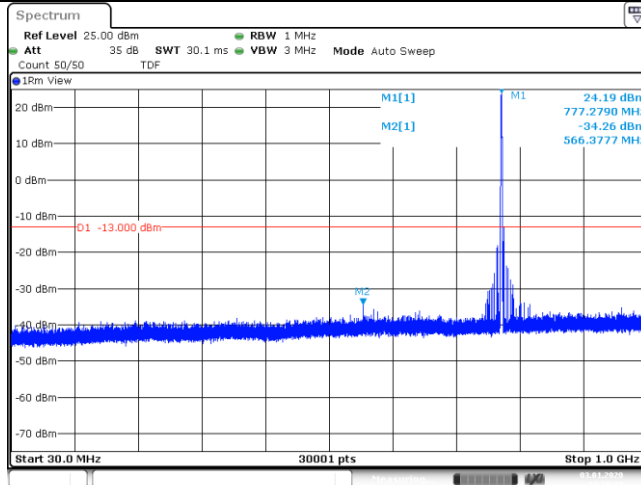
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Band13\_5MHz\_16QAM\_23205\_1\_0\_Low\_12000\_26500\_-41.58\_PASS\_



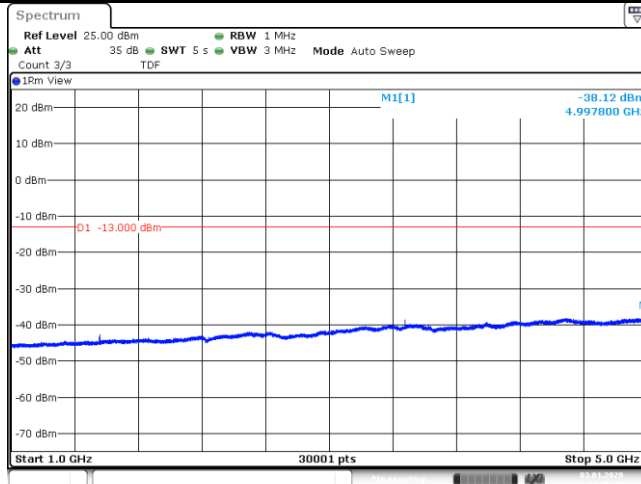
Date: 3.JAN.2020 14:11:26

Band13\_5MHz\_16QAM\_23205\_1\_0\_Low\_30\_1000\_-34.26\_PASS\_



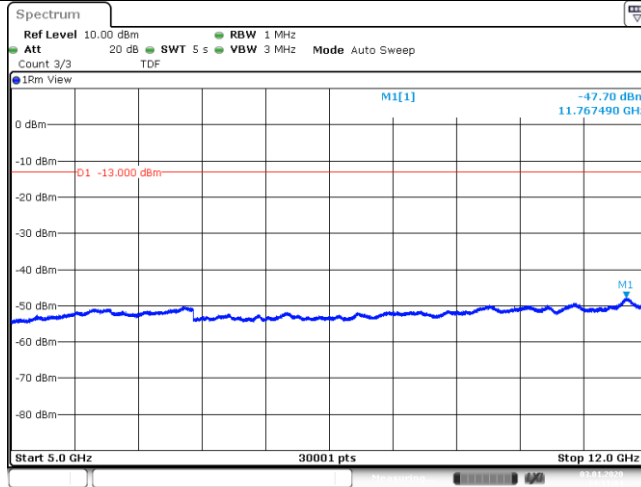
Date: 3.JAN.2020 14:10:20

Band13\_5MHz\_16QAM\_23205\_1\_0\_Low\_1000\_5000\_-38.12\_PASS\_



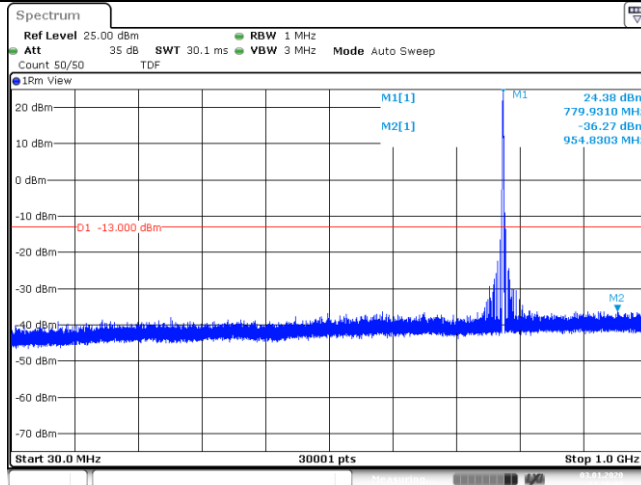
Date: 3.JAN.2020 14:10:42

Band13\_5MHz\_16QAM\_23205\_1\_0\_Low\_5000\_12000\_-47.7\_PASS\_\_



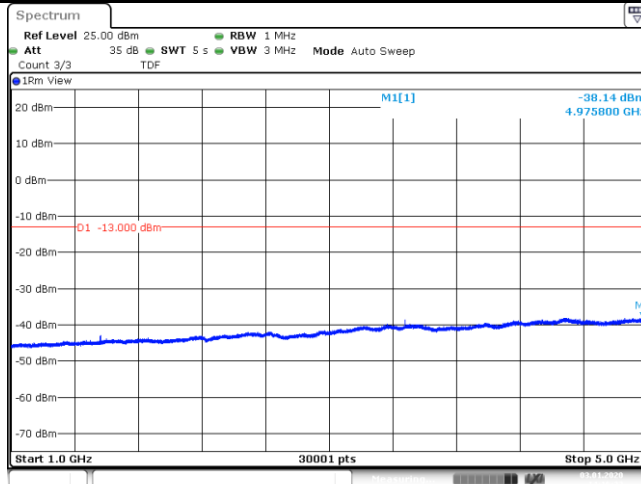
Date: 3.JAN.2020 14:11:04

Band13\_5MHz\_16QAM\_23230\_1\_0\_Low\_30\_1000\_-36.27\_PASS\_\_



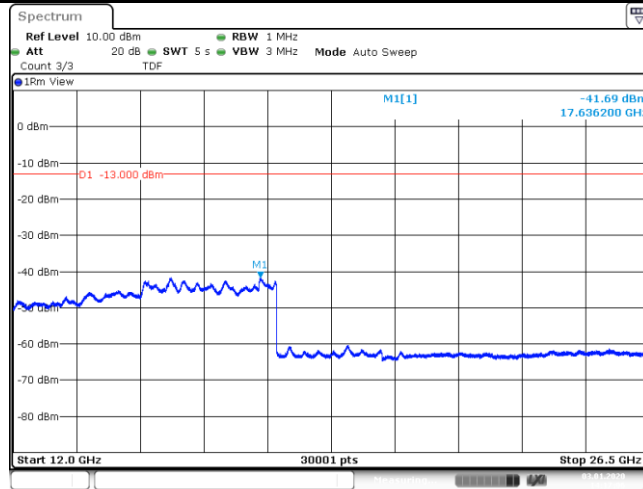
Date: 3.JAN.2020 14:16:00

Band13\_5MHz\_16QAM\_23230\_1\_0\_Low\_1000\_5000\_-38.14\_PASS\_\_



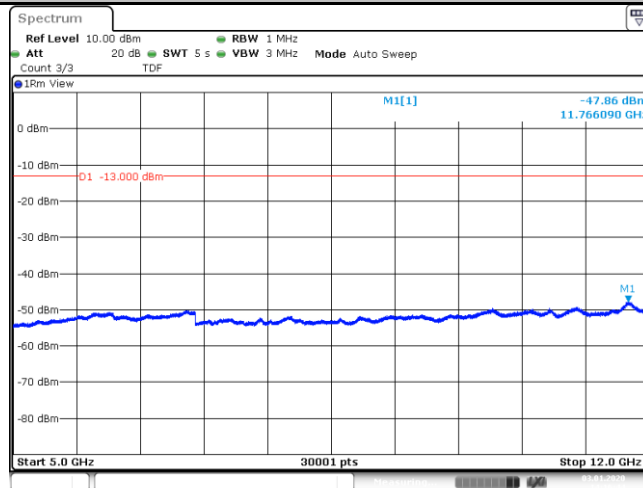
Date: 3.JAN.2020 14:16:22

Band13\_5MHz\_16QAM\_23230\_1\_0\_Low\_12000\_26500\_-41.69\_PASS\_



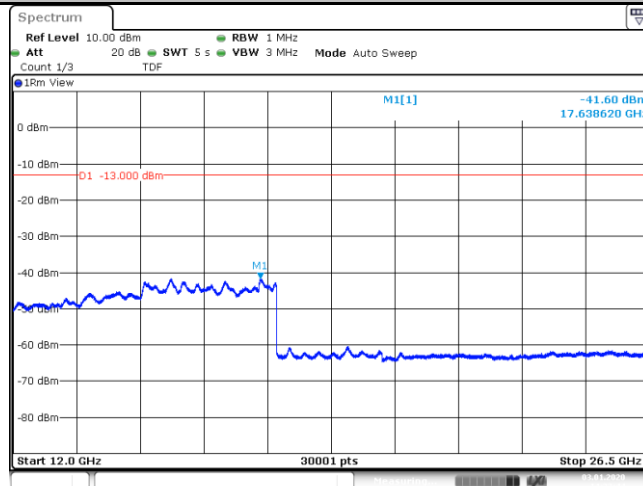
Date: 3.JAN.2020 14:17:06

Band13\_5MHz\_16QAM\_23230\_1\_0\_Low\_5000\_12000\_-47.86\_PASS\_



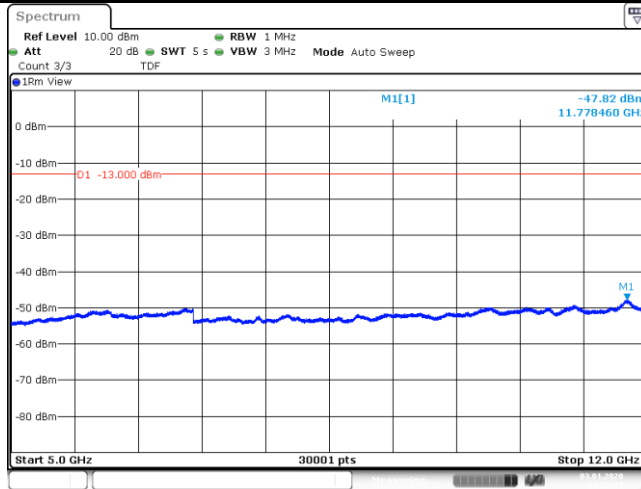
Date: 3.JAN.2020 14:16:44

Band13\_5MHz\_16QAM\_23255\_1\_5\_High\_12000\_26500\_-41.6\_PASS\_



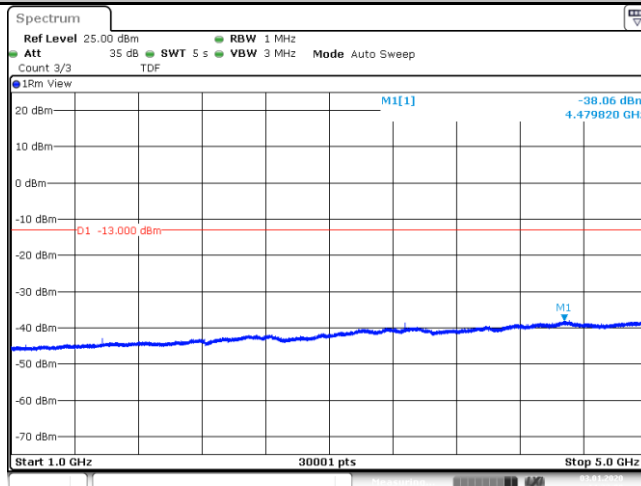
Date: 3.JAN.2020 14:22:44

Band13\_5MHz\_16QAM\_23255\_1\_5\_High\_5000\_12000\_-47.82\_PASS\_



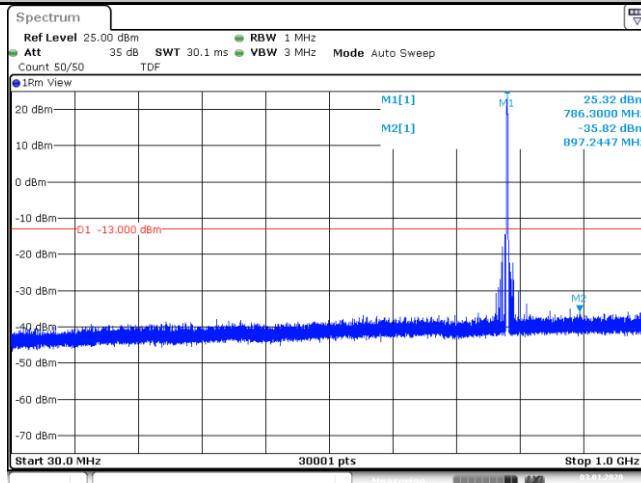
Date: 3.JAN.2020 14:22:22

Band13\_5MHz\_16QAM\_23255\_1\_5\_High\_1000\_5000\_-38.06\_PASS\_



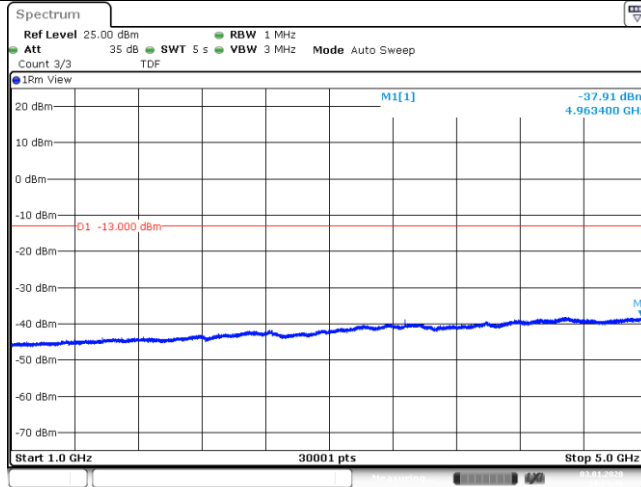
Date: 3.JAN.2020 14:22:00

Band13\_5MHz\_16QAM\_23255\_1\_5\_High\_30\_1000\_-35.82\_PASS\_



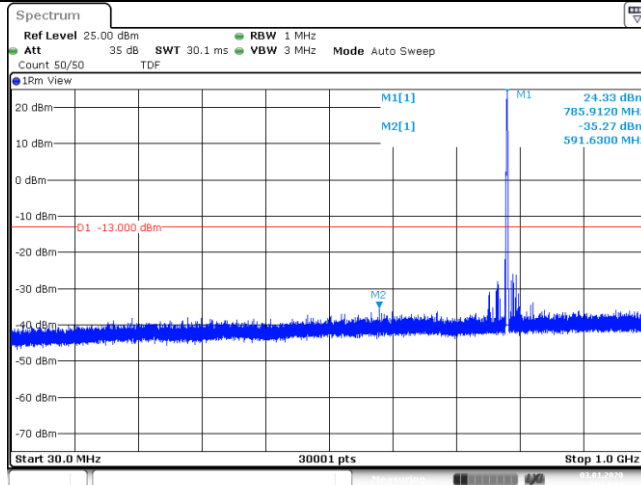
Date: 3.JAN.2020 14:21:38

Band13\_5MHz\_16QAM\_23255\_3\_3\_High\_1000\_5000\_-37.91\_PASS\_



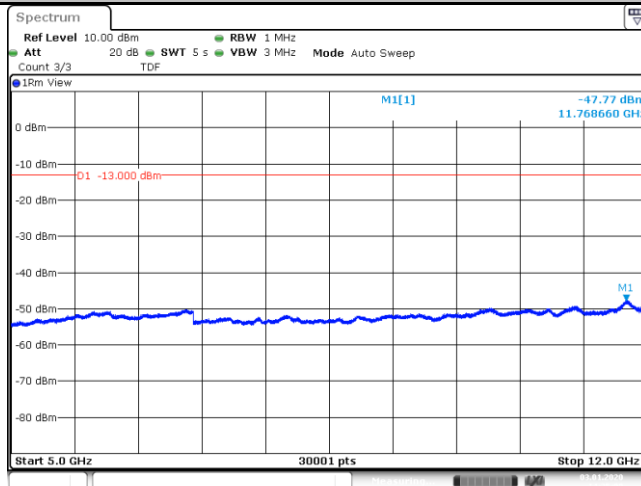
Date: 3. JAN. 2020 14:24:46

Band13\_5MHz\_16QAM\_23255\_3\_3\_High\_30\_1000\_-35.27\_PASS\_



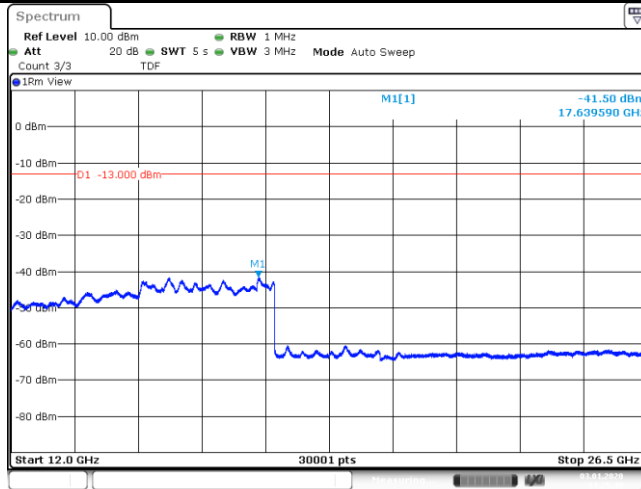
Date: 3. JAN. 2020 14:24:24

Band13\_5MHz\_16QAM\_23255\_3\_3\_High\_5000\_12000\_-47.77\_PASS\_



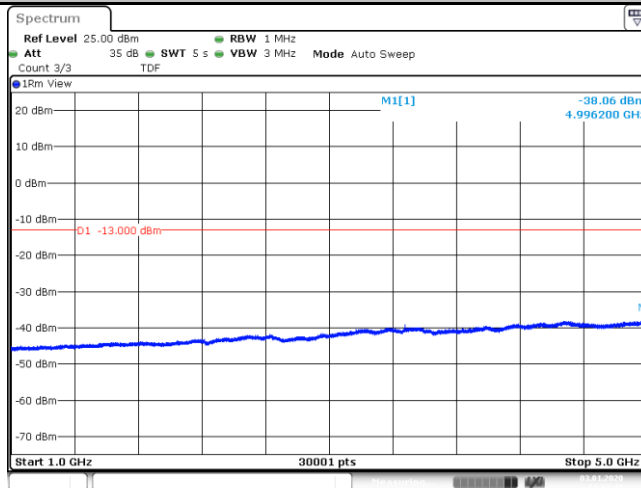
Date: 3. JAN. 2020 14:25:08

Band13\_5MHz\_16QAM\_23255\_3\_3\_High\_12000\_26500\_-41.5\_PASS\_\_



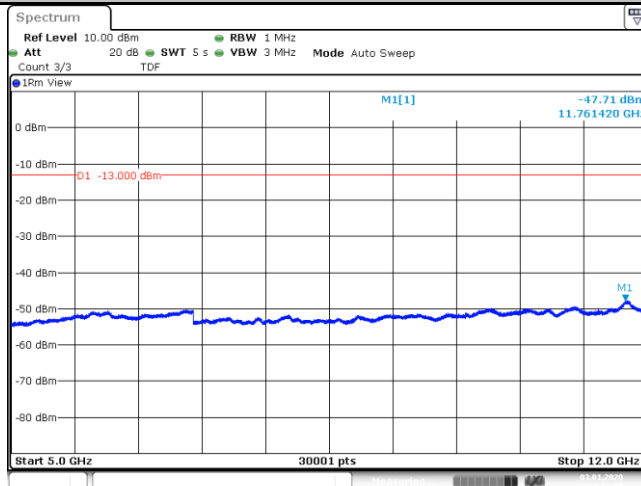
Date: 3.JAN.2020 14:25:30

Band13\_5MHz\_16QAM\_23205\_6\_0\_Low\_1000\_5000\_-38.06\_PASS\_\_



Date: 3.JAN.2020 14:13:28

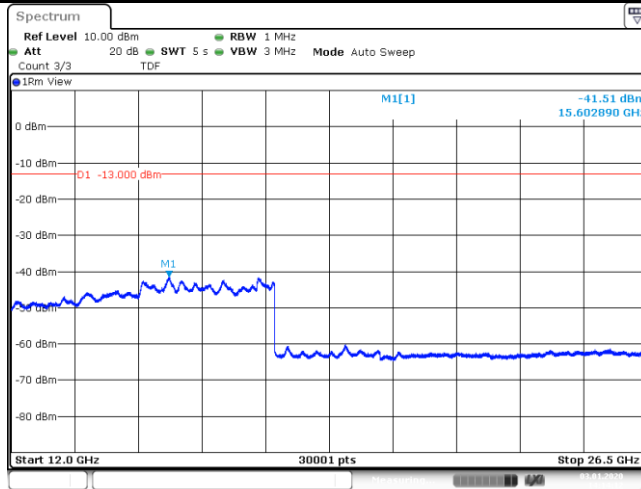
Band13\_5MHz\_16QAM\_23205\_6\_0\_Low\_5000\_12000\_-47.71\_PASS\_\_



Date: 3.JAN.2020 14:13:50

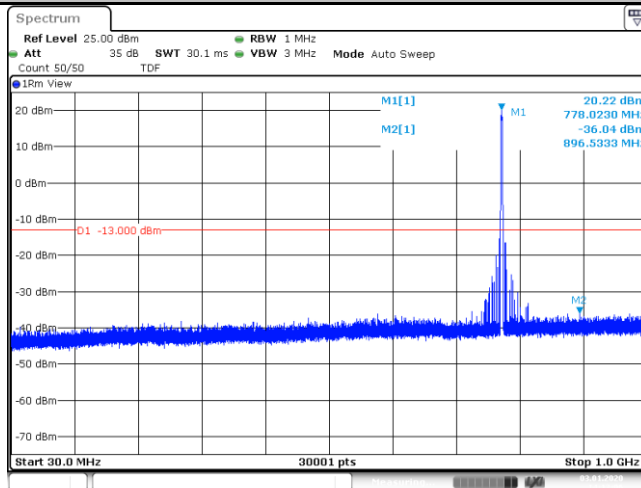


Band13\_5MHz\_16QAM\_23205\_6\_0\_Low\_12000\_26500\_-41.51\_PASS\_



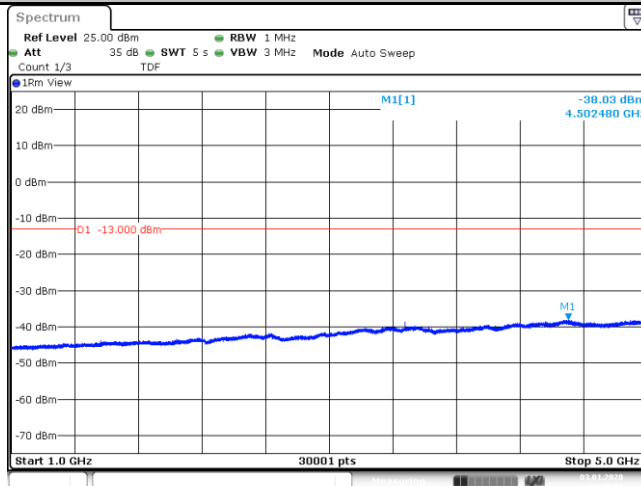
Date: 3.JAN.2020 14:14:12

Band13\_5MHz\_16QAM\_23205\_6\_0\_Low\_30\_1000\_-36.04\_PASS\_



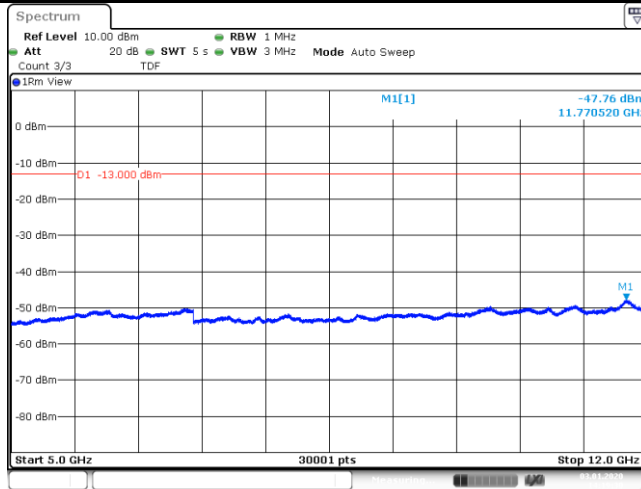
Date: 3.JAN.2020 14:13:06

Band13\_5MHz\_16QAM\_23230\_6\_0\_Low\_1000\_5000\_-38.03\_PASS\_



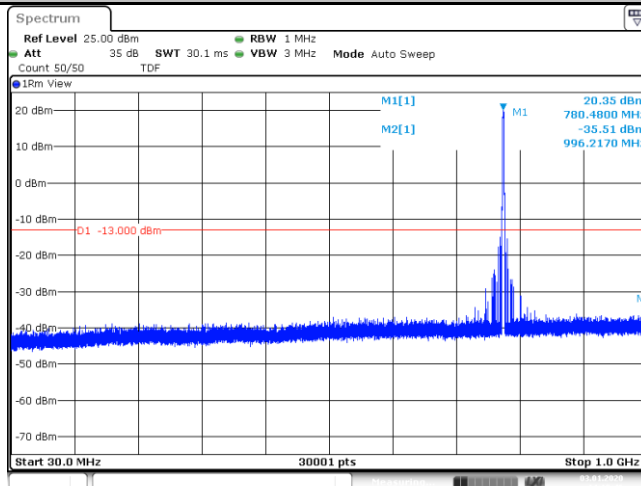
Date: 3.JAN.2020 14:19:08

Band13\_5MHz\_16QAM\_23230\_6\_0\_Low\_5000\_12000\_-47.76\_PASS\_



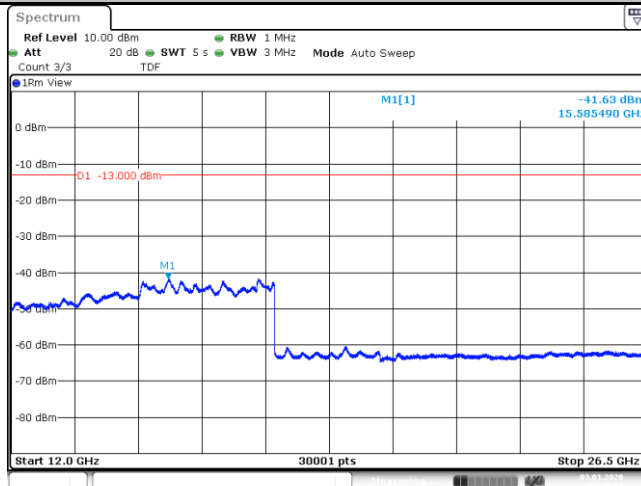
Date: 3.JAN.2020 14:19:30

Band13\_5MHz\_16QAM\_23230\_6\_0\_Low\_30\_1000\_-35.51\_PASS\_



Date: 3.JAN.2020 14:18:46

Band13\_5MHz\_16QAM\_23230\_6\_0\_Low\_12000\_26500\_-41.63\_PASS\_



Date: 3.JAN.2020 14:19:51

## Appendix E.6: Frequency Stability for M1

### Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23230	1	0	Low	HV	NT	-10.31	-0.013184	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	LV	NT	-10.23	-0.013082	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	NT	-10.19	-0.013031	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	HV	NT	-5.99	-0.007660	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	LV	NT	-6.38	-0.008159	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	NT	-6.42	-0.008210	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23230	1	0	Low	NV	85	-8.98	-0.011483	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-30	-10.09	-0.012903	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-20	-9.74	-0.012455	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-10	-11.34	-0.014501	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	0	-8.90	-0.011381	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	10	-20.53	-0.026253	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	20	-9.93	-0.012698	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	30	-20.40	-0.026087	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	40	-9.88	-0.012634	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	50	-10.06	-0.012864	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	60	-9.88	-0.012634	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	70	-11.27	-0.014412	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-40	-9.36	-0.011969	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	80	-9.88	-0.012634	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	85	-5.72	-0.007315	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-30	-5.89	-0.007532	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-20	-5.69	-0.007276	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-10	-5.62	-0.007187	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	0	-6.42	-0.008210	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	10	-6.55	-0.008376	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	20	-7.80	-0.009974	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	30	-5.64	-0.007212	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	40	-6.25	-0.007992	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	50	-5.25	-0.006714	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	60	-6.39	-0.008171	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	70	-5.59	-0.007148	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	80	-6.71	-0.008581	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-40	-6.24	-0.007980	±2.5	PASS