

Appendix for Band 12

FCC ID: 2AC88-ELTP18A04

IC: 24230-ELTP18A04

Model: ELTP18A04

Appendix A: Peak-to-Average Ratio(CCDF)

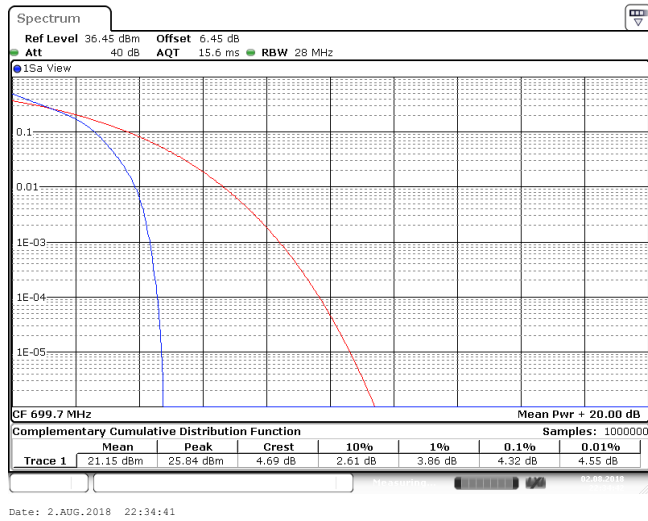
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.32	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.04	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.70	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.30	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.38	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.01	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	4.38	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.00	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.67	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.35	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.38	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.09	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.23	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.22	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.70	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.39	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.49	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.07	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	4.64	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.17	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.16	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.32	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.67	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.03	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.46	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.36	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.07	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.39	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.64	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.39	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.09	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.03	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.12	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.54	13	PASS

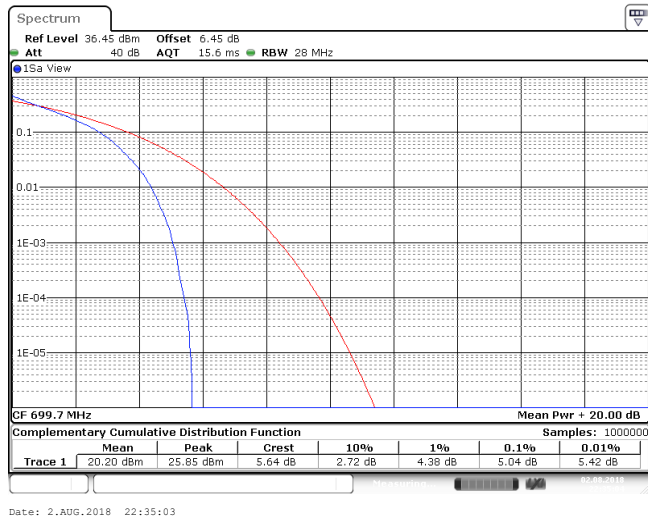
Band12	5MHz	16QAM	23155	25RB#0	5.97	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.35	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.25	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.78	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.16	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.07	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	4.75	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.17	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.28	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.25	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.03	13	PASS

Test Graphs

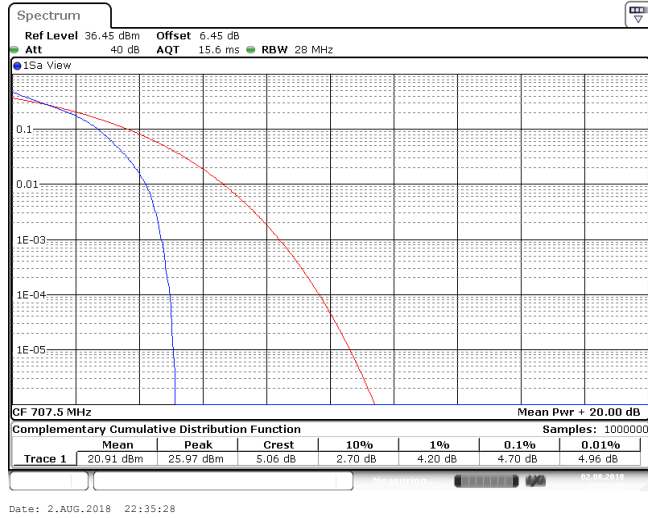
Band12_1.4MHz_QPSK_23017_1RB#0



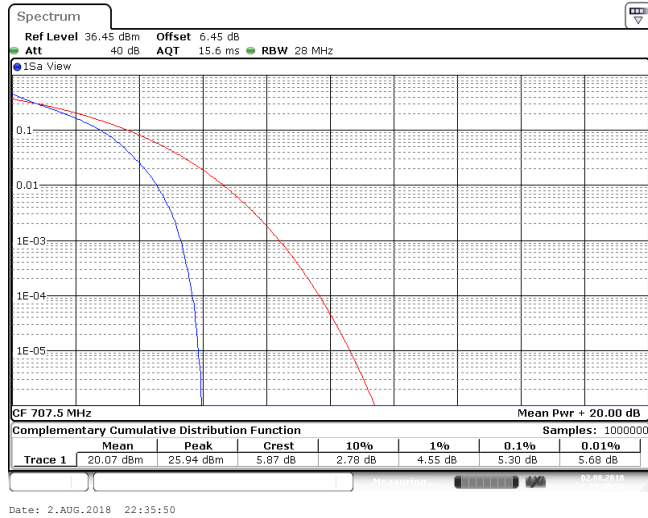
Band12_1.4MHz_QPSK_23017_6RB#0



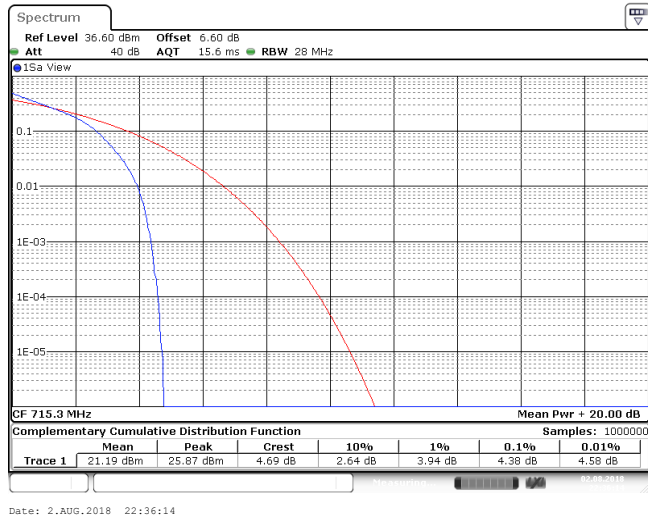
Band12_1.4MHz_QPSK_23095_1RB#0



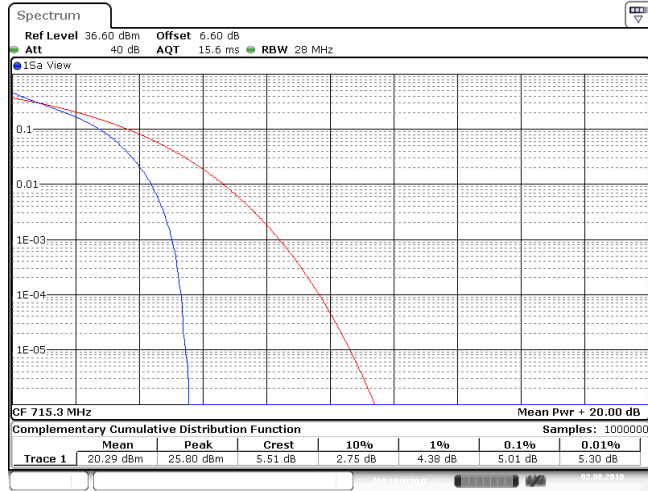
Band12_1.4MHz_QPSK_23095_6RB#0



Band12_1.4MHz_QPSK_23173_1RB#0

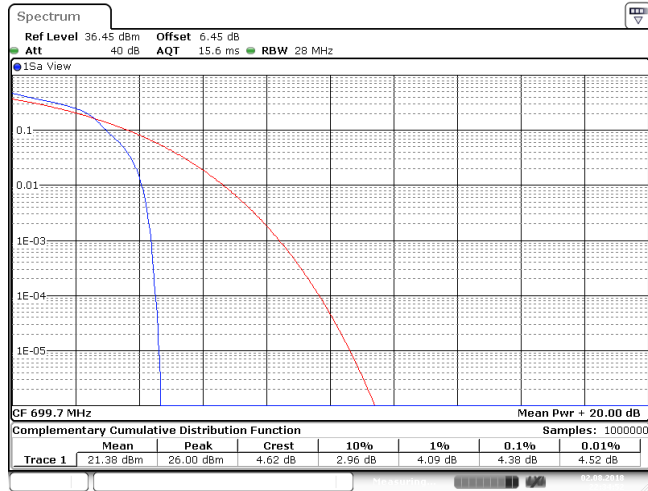


Band12_1.4MHz_QPSK_23173_6RB#0



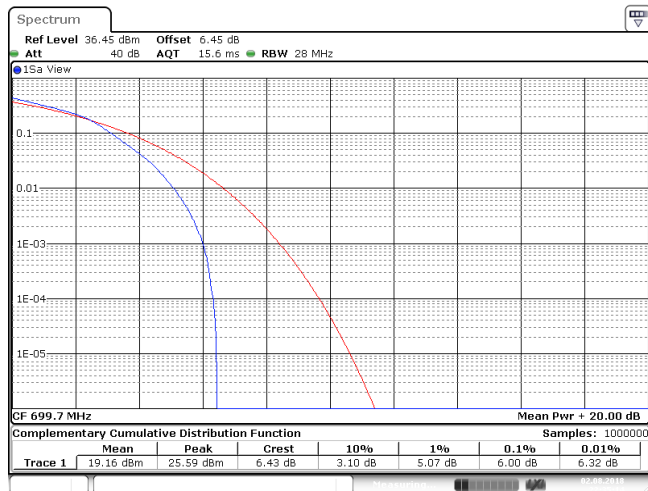
Date: 2.AUG.2018 22:36:36

Band12_1.4MHz_16QAM_23017_1RB#0



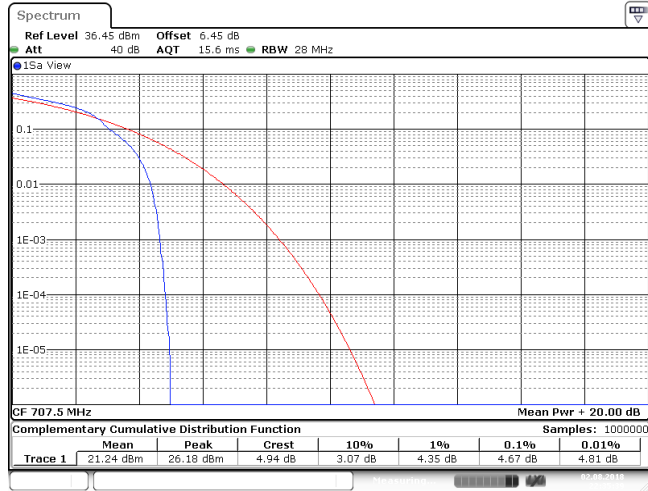
Date: 2.AUG.2018 22:34:52

Band12_1.4MHz_16QAM_23017_6RB#0



Date: 2.AUG.2018 22:35:14

Band12_1.4MHz_16QAM_23095_1RB#0



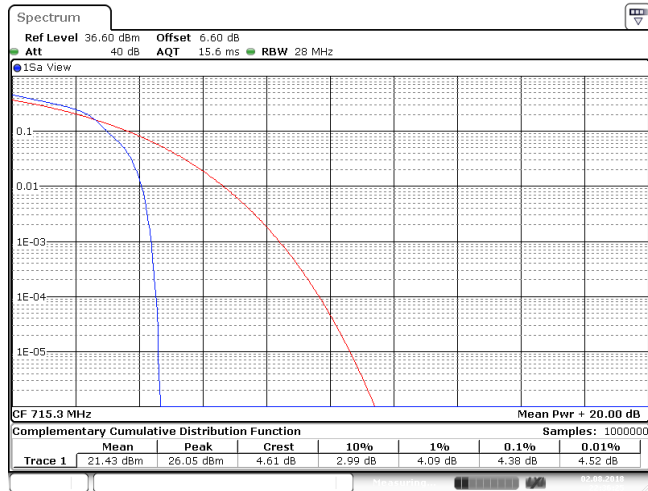
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Band12_1.4MHz_16QAM_23095_6RB#0



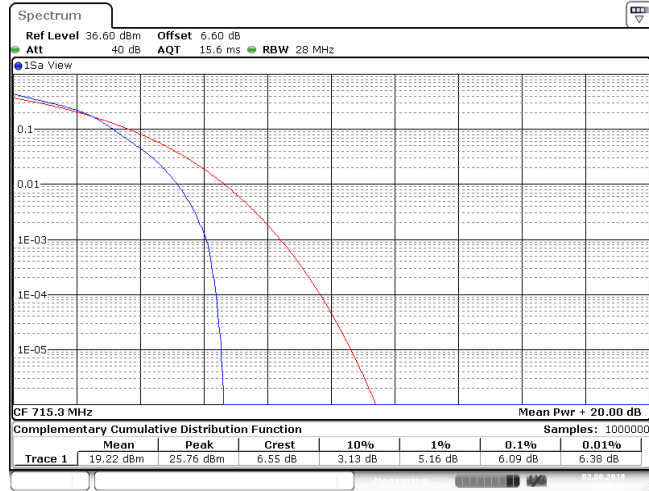
Date: 2.AUG.2018 22:36:01

Band12_1.4MHz_16QAM_23173_1RB#0



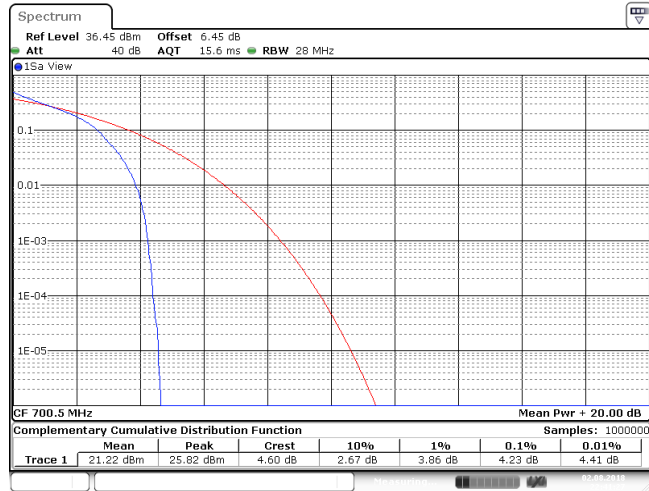
Date: 2.AUG.2018 22:36:25

Band12_1.4MHz_16QAM_23173_6RB#0



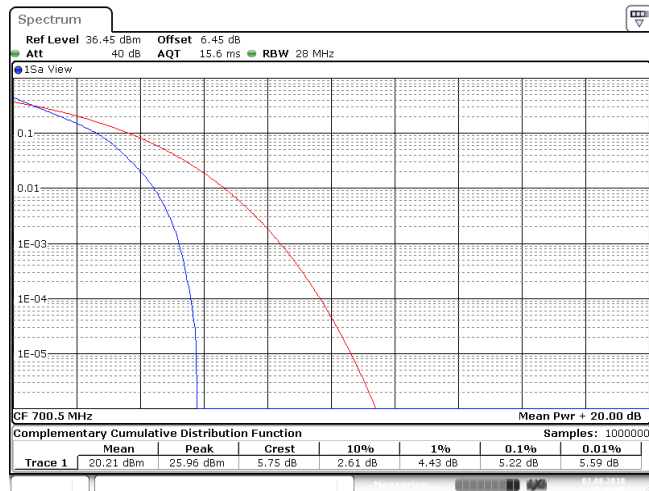
Date: 2.AUG.2018 22:36:47

Band12_3MHz_QPSK_23025_1RB#0



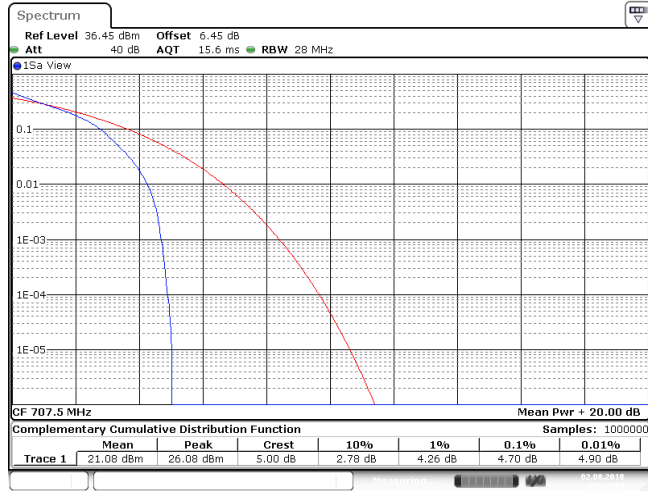
Date: 2.AUG.2018 22:41:27

Band12_3MHz_QPSK_23025_15RB#0



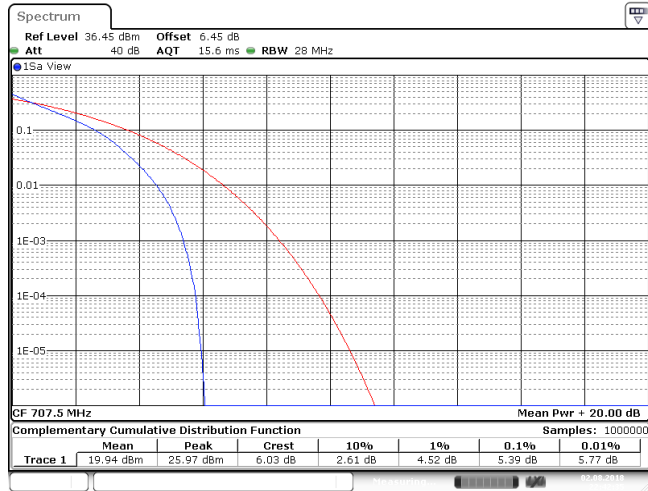
Date: 2.AUG.2018 22:41:49

Band12_3MHz_QPSK_23095_1RB#0



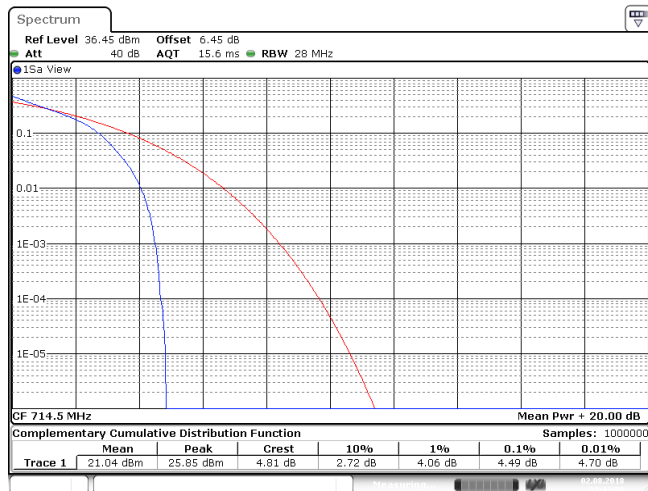
Date: 2.AUG.2018 22:42:13

Band12_3MHz_QPSK_23095_15RB#0



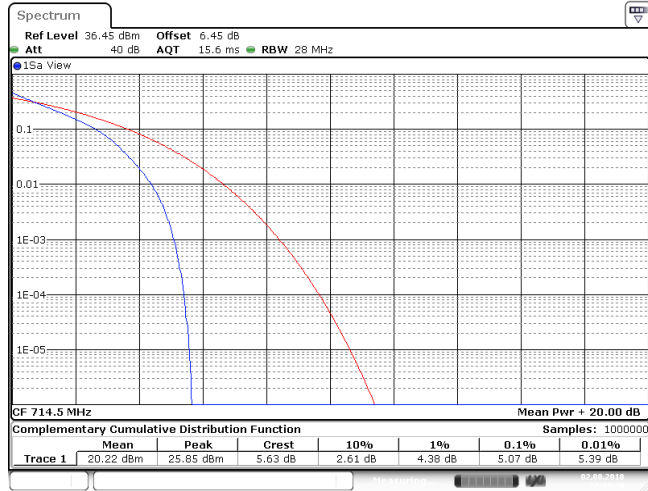
Date: 2.AUG.2018 22:42:34

Band12_3MHz_QPSK_23165_1RB#0



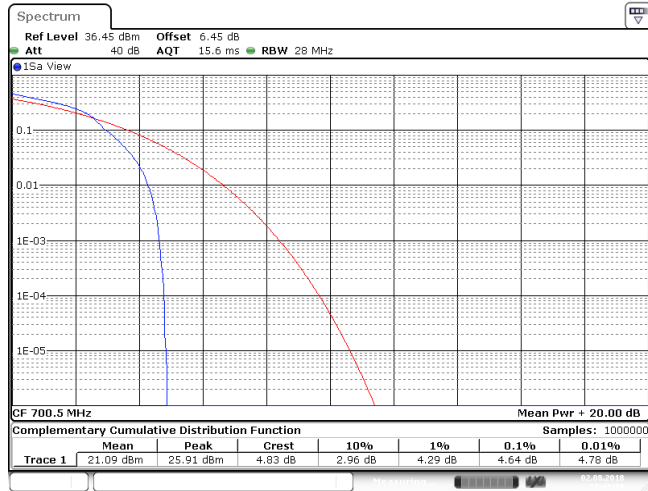
Date: 2.AUG.2018 22:42:58

Band12_3MHz_QPSK_23165_15RB#0



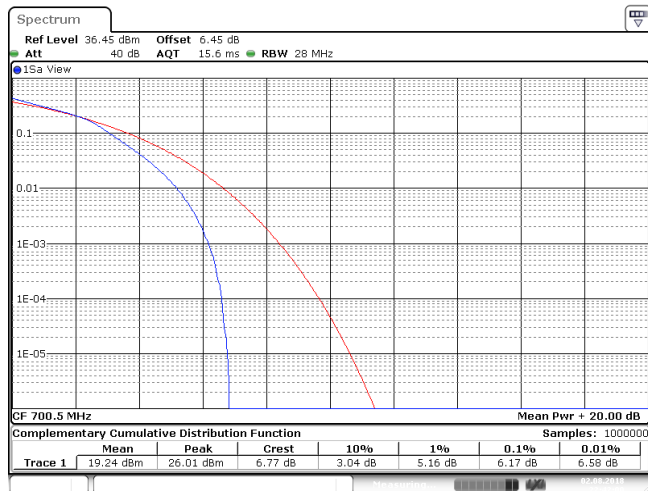
Date: 2.AUG.2018 22:43:20

Band12_3MHz_16QAM_23025_1RB#0



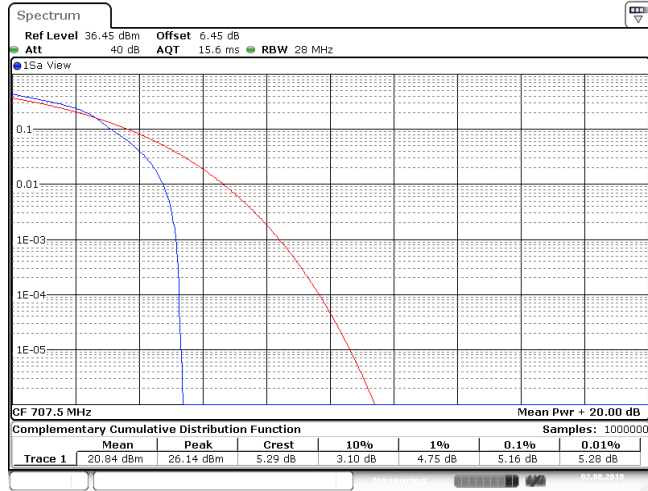
Date: 2.AUG.2018 22:41:38

Band12_3MHz_16QAM_23025_15RB#0



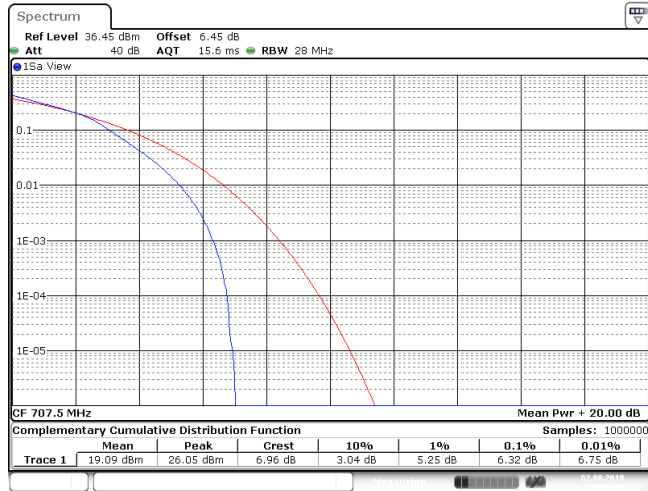
Date: 2.AUG.2018 22:42:00

Band12_3MHz_16QAM_23095_1RB#0



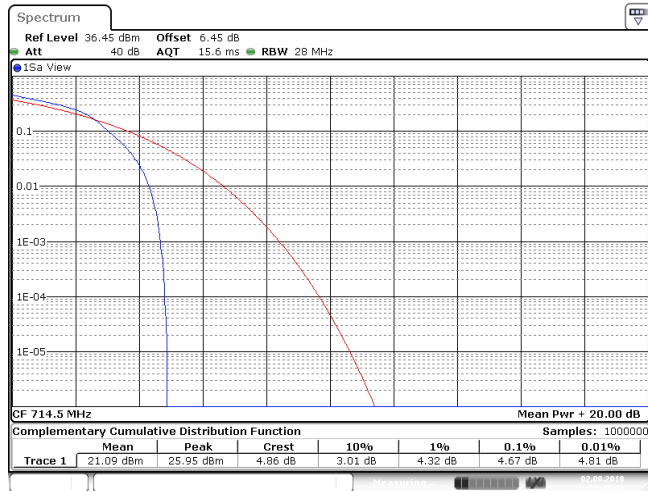
Date: 2.AUG.2018 22:42:23

Band12_3MHz_16QAM_23095_15RB#0



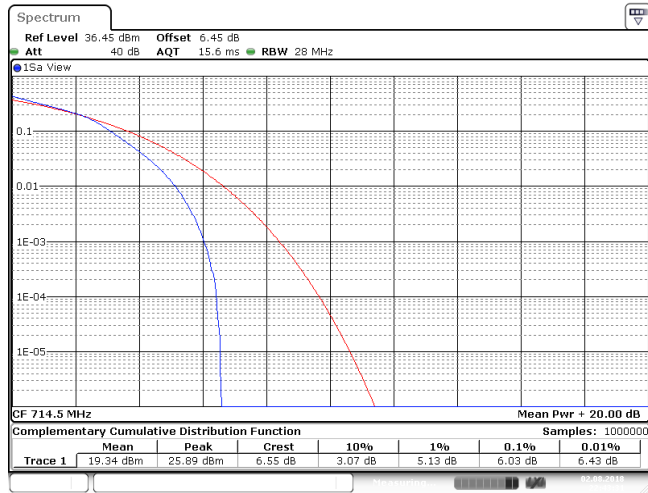
Date: 2.AUG.2018 22:42:45

Band12_3MHz_16QAM_23165_1RB#0



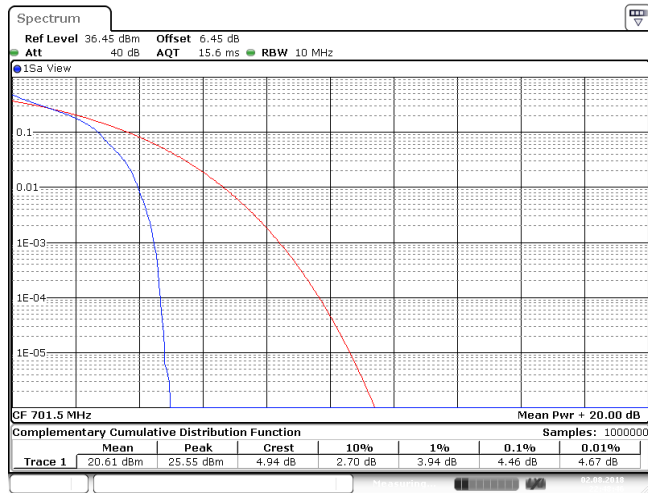
Date: 2.AUG.2018 22:43:09

Band12_3MHz_16QAM_23165_15RB#0



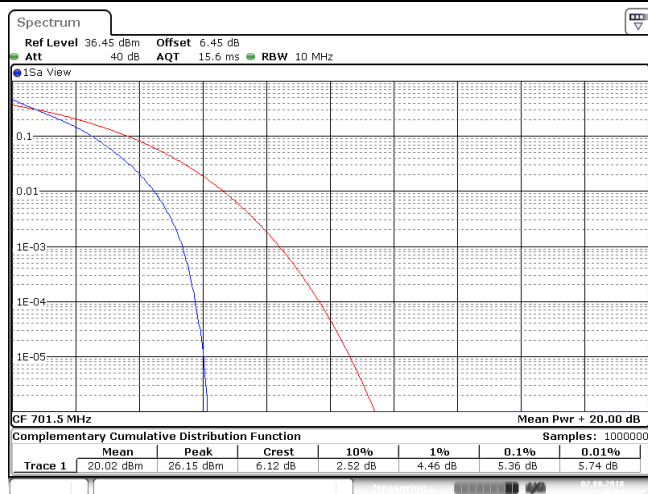
Date: 2.AUG.2018 22:43:31

Band12_5MHz_QPSK_23035_1RB#0



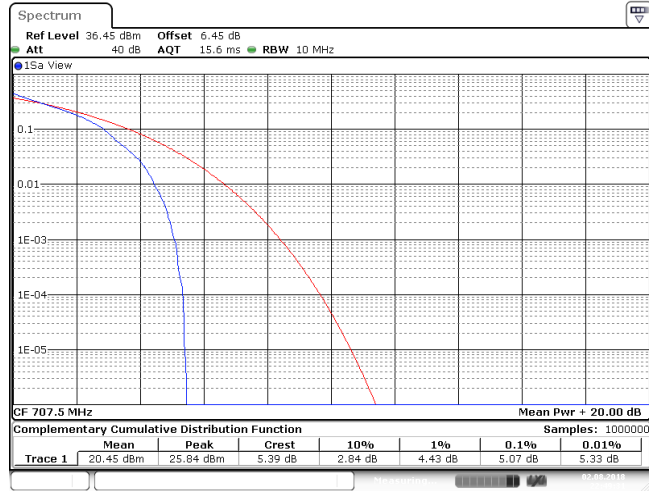
Date: 2.AUG.2018 22:48:45

Band12_5MHz_QPSK_23035_25RB#0



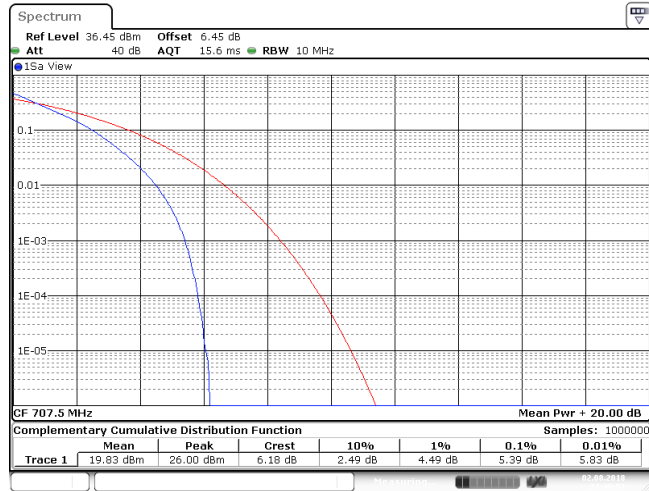
Date: 2.AUG.2018 22:49:07

Band12_5MHz_QPSK_23095_1RB#0



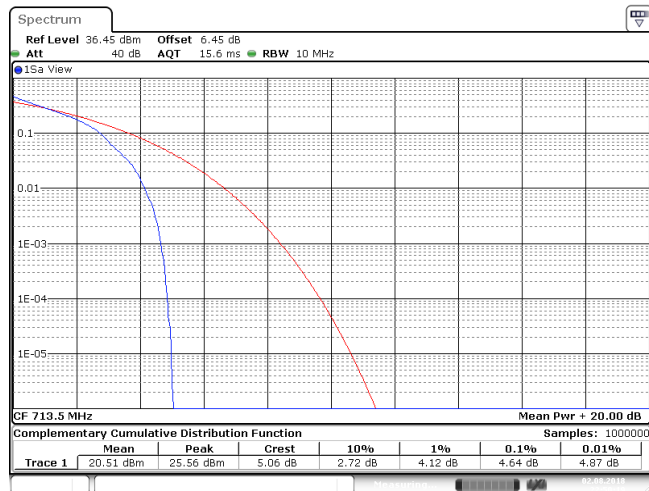
Date: 2.AUG.2018 22:49:31

Band12_5MHz_QPSK_23095_25RB#0



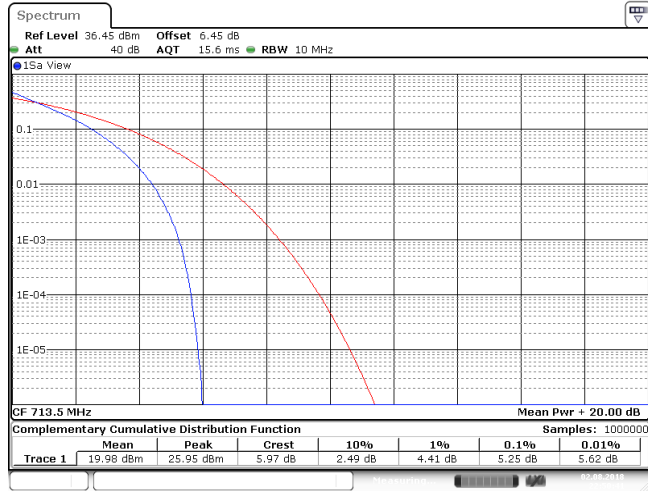
Date: 2.AUG.2018 22:49:53

Band12_5MHz_QPSK_23155_1RB#0



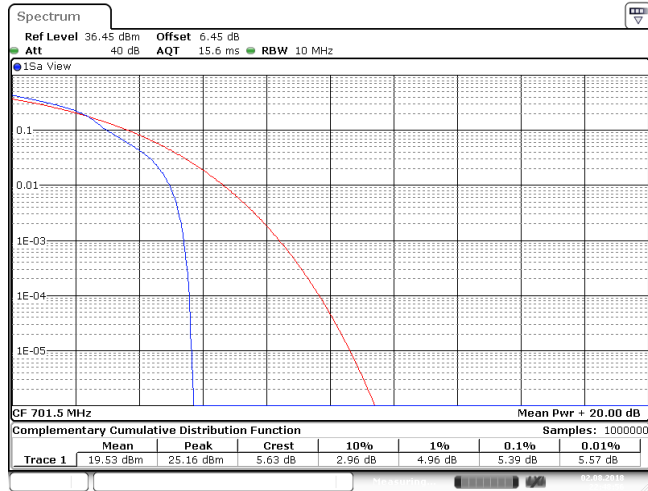
Date: 2.AUG.2018 22:50:19

Band12_5MHz_QPSK_23155_25RB#0



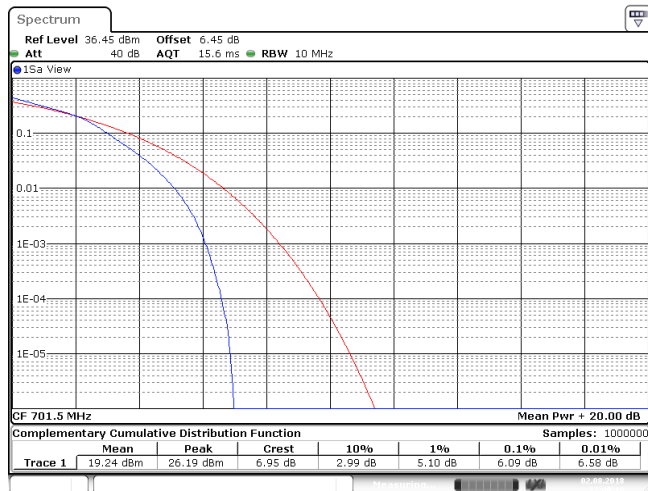
Date: 2.AUG.2018 22:50:41

Band12_5MHz_16QAM_23035_1RB#0



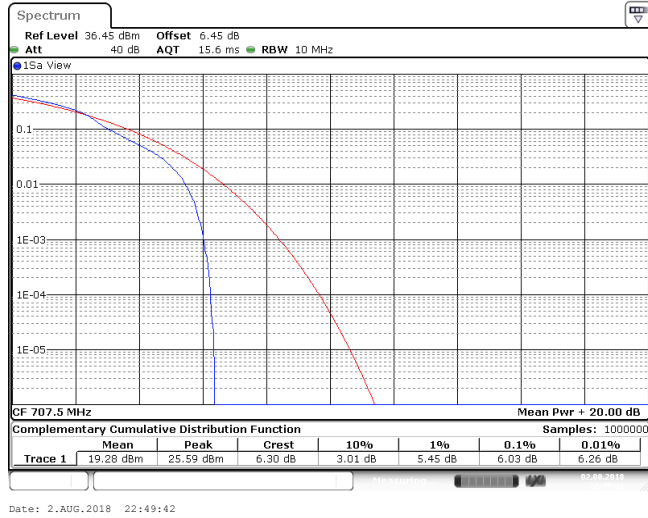
Date: 2.AUG.2018 22:48:56

Band12_5MHz_16QAM_23035_25RB#0

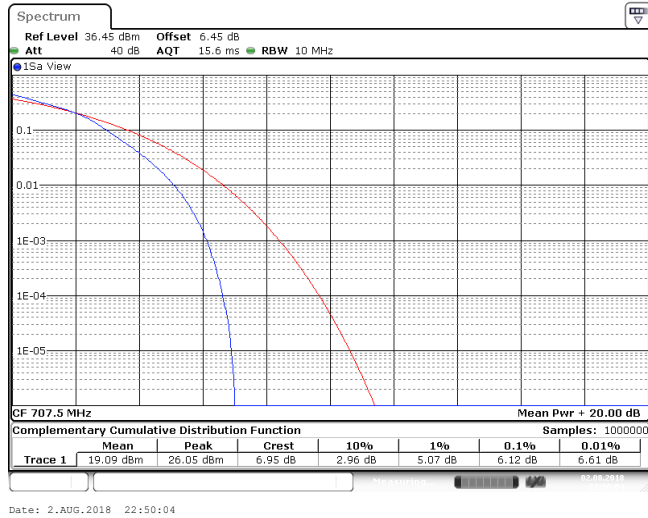


Date: 2.AUG.2018 22:49:18

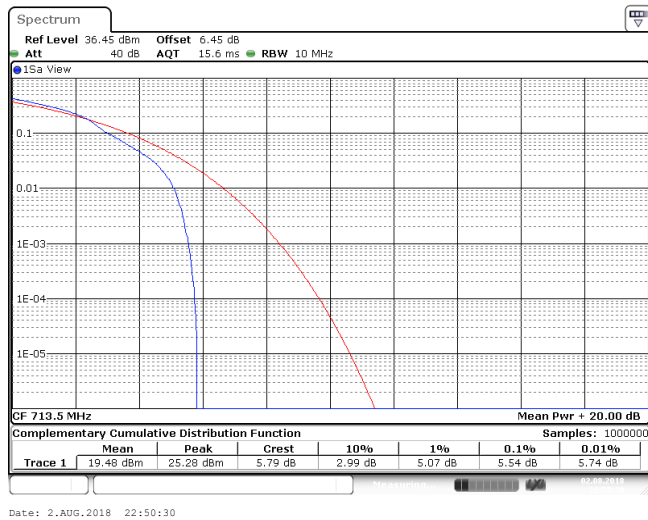
Band12_5MHz_16QAM_23095_1RB#0



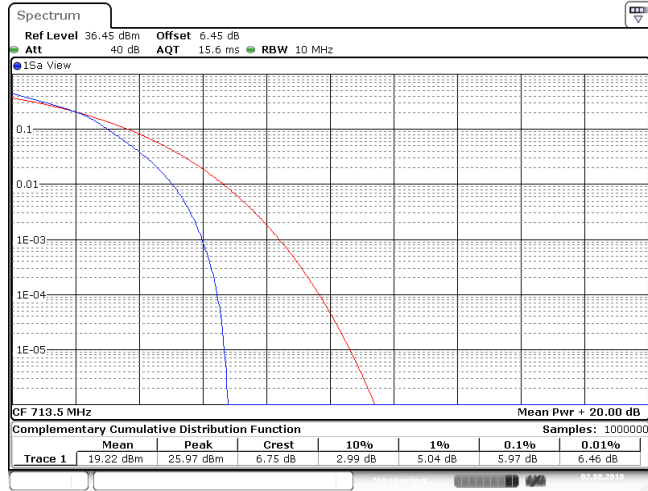
Band12_5MHz_16QAM_23095_25RB#0



Band12_5MHz_16QAM_23155_1RB#0

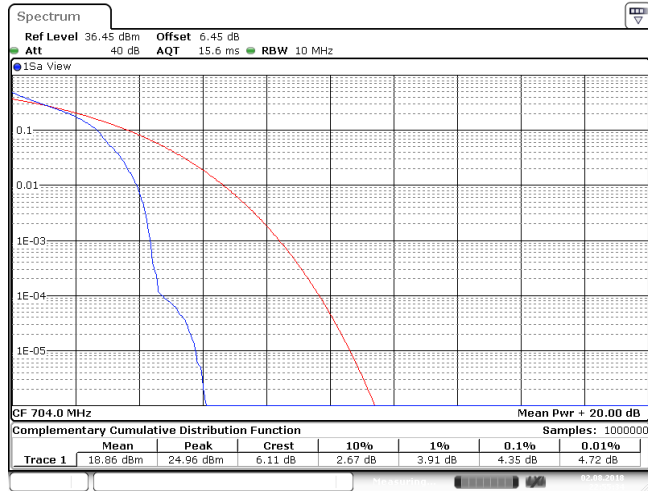


Band12_5MHz_16QAM_23155_25RB#0



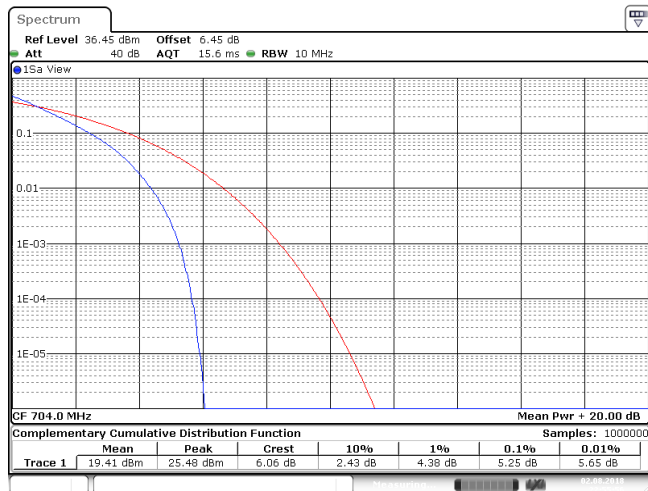
Date: 2.AUG.2018 22:50:52

Band12_10MHz_QPSK_23060_1RB#0



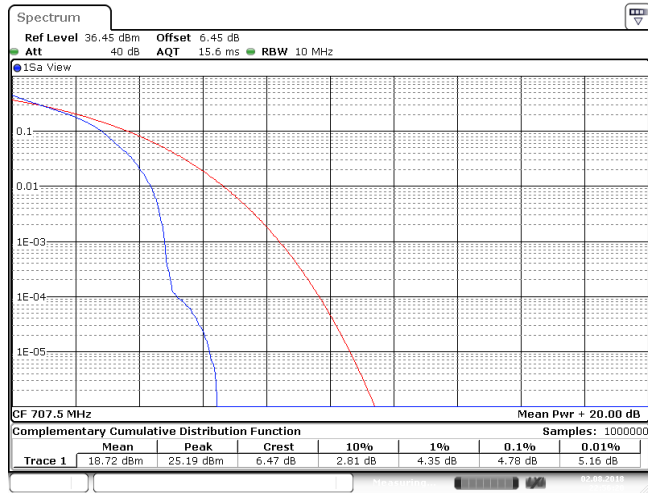
Date: 2.AUG.2018 22:55:34

Band12_10MHz_QPSK_23060_50RB#0



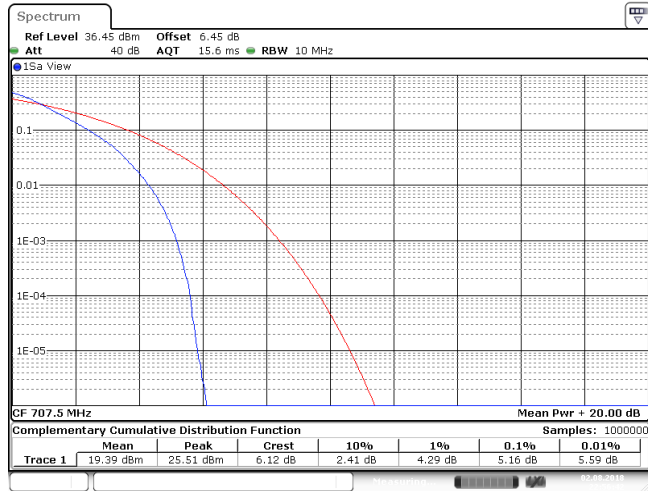
Date: 2.AUG.2018 22:55:56

Band12_10MHz_QPSK_23095_1RB#0



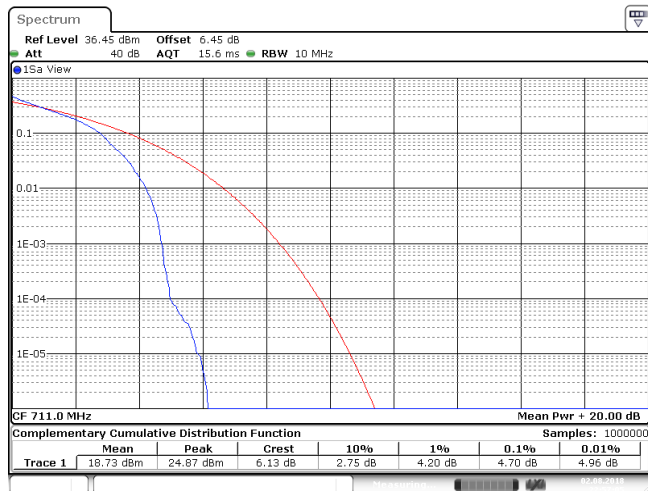
Date: 2.AUG.2018 22:56:19

Band12_10MHz_QPSK_23095_50RB#0



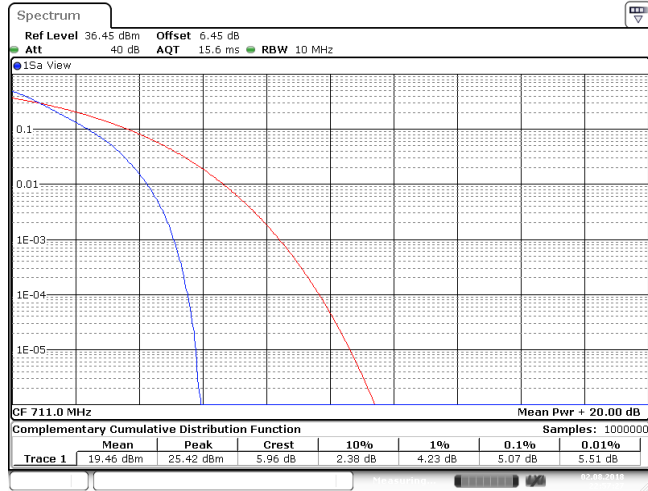
Date: 2.AUG.2018 22:56:41

Band12_10MHz_QPSK_23130_1RB#0



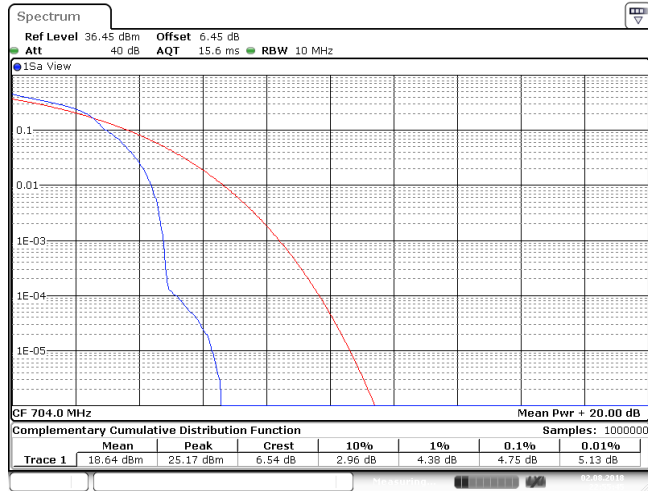
Date: 2.AUG.2018 22:57:05

Band12_10MHz_QPSK_23130_50RB#0



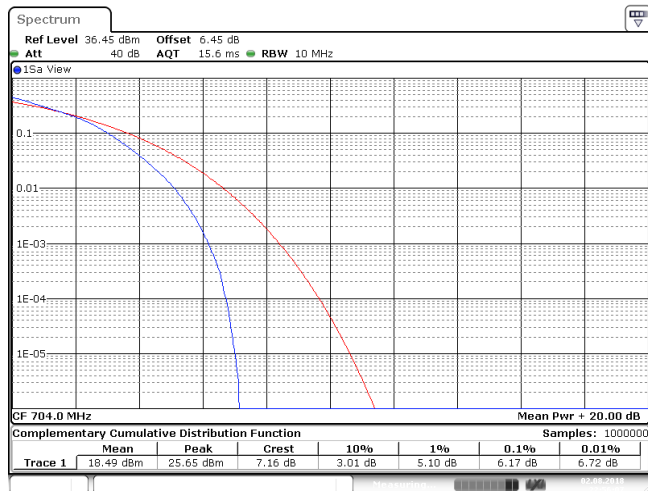
Date: 2.AUG.2018 22:57:27

Band12_10MHz_16QAM_23060_1RB#0



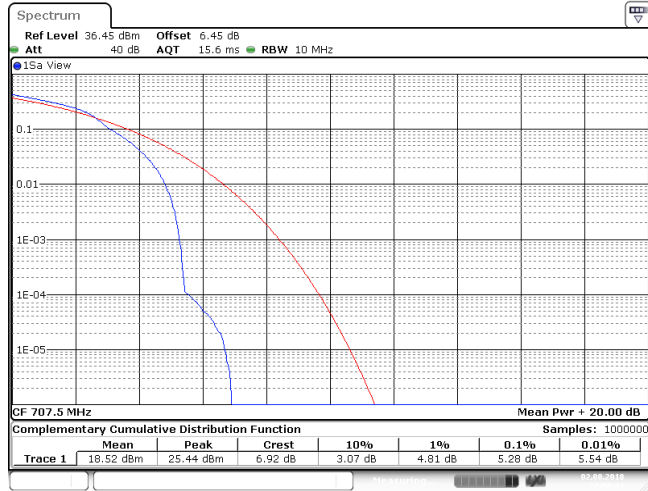
Date: 2.AUG.2018 22:55:45

Band12_10MHz_16QAM_23060_50RB#0



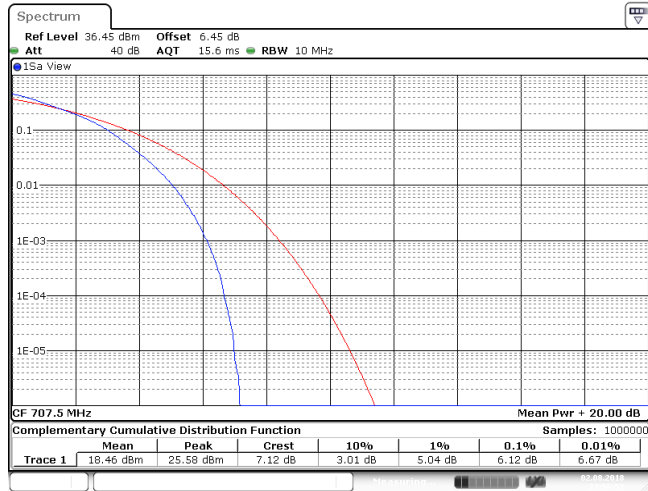
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Band12_10MHz_16QAM_23095_1RB#0



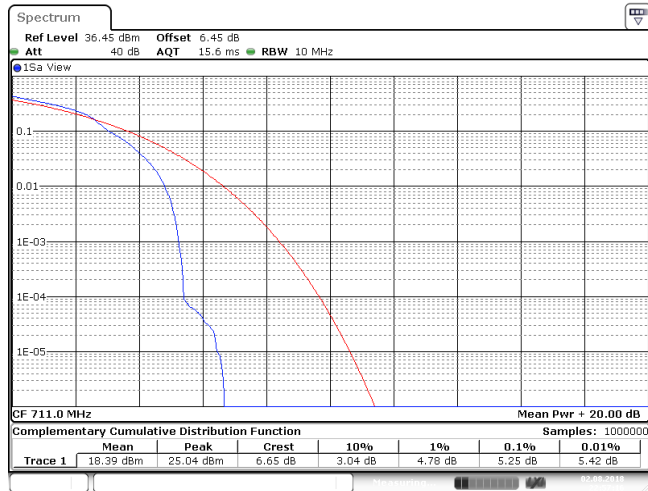
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Band12_10MHz_16QAM_23095_50RB#0



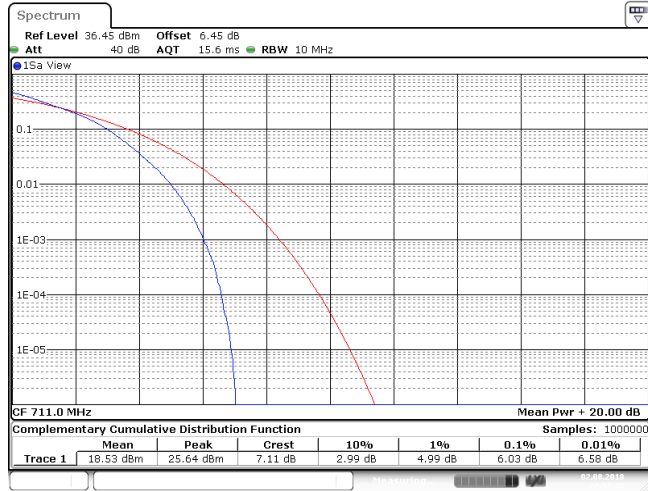
Date: 2.AUG.2018 22:56:52

Band12_10MHz_16QAM_23130_1RB#0



Date: 2.AUG.2018 22:57:16

Band12_10MHz_16QAM_23130_50RB#0



Date: 2.AUG.2018 22:57:38

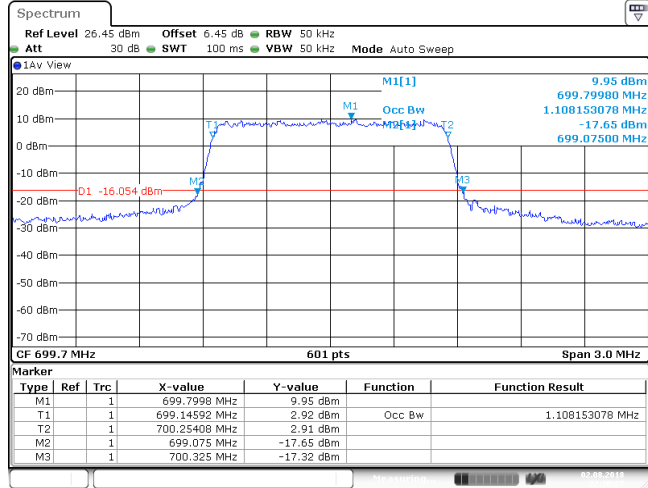
Appendix B: 26dB Bandwidth and Occupied Bandwidth

Test Result

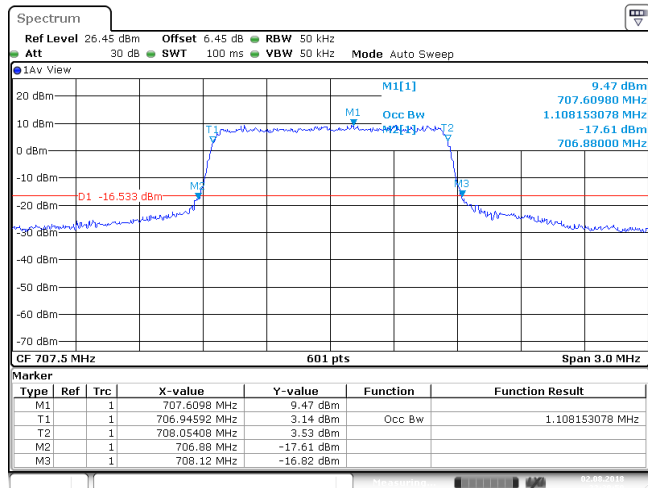
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.108	1.250	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.108	1.240	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.108	1.245	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.108	1.250	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.113	1.245	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.113	1.240	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.940	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.930	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.940	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.696	2.940	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.950	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.910	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	4.770	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.740	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	4.730	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	4.740	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.486	4.730	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.720	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.952	9.333	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.918	9.233	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.918	9.200	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.918	9.300	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.918	9.300	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.918	9.233	PASS

Test Graphs

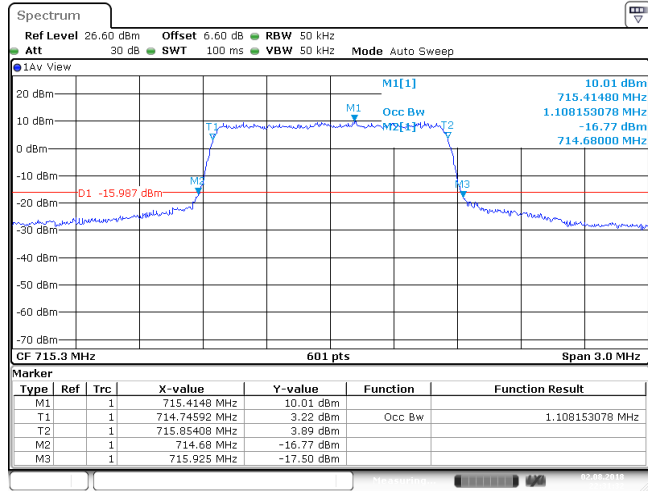
Band12_1.4MHz_QPSK_23017_6RB#0



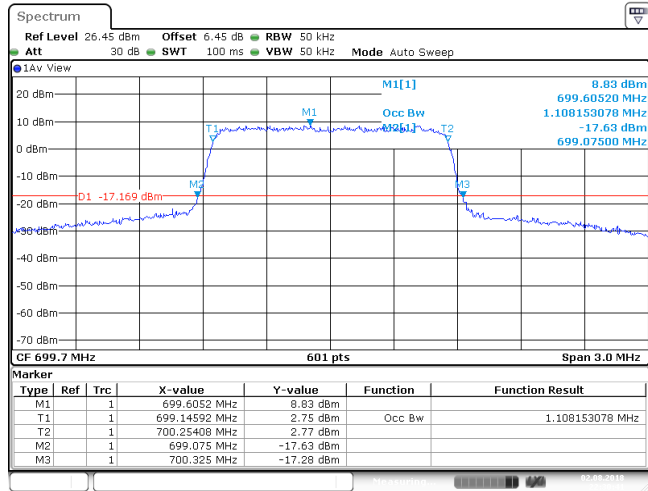
Band12_1.4MHz_QPSK_23095_6RB#0



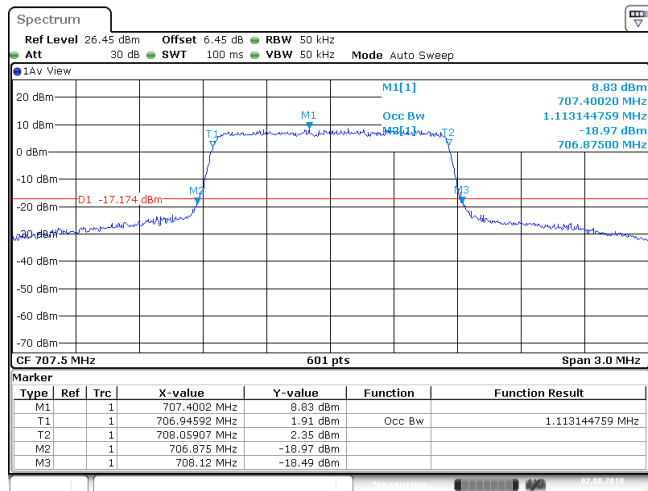
Band12_1.4MHz_QPSK_23173_6RB#0



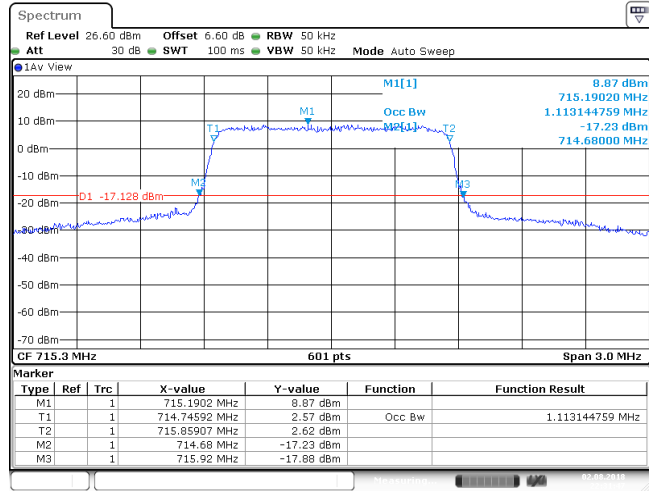
Band12_1.4MHz_16QAM_23017_6RB#0



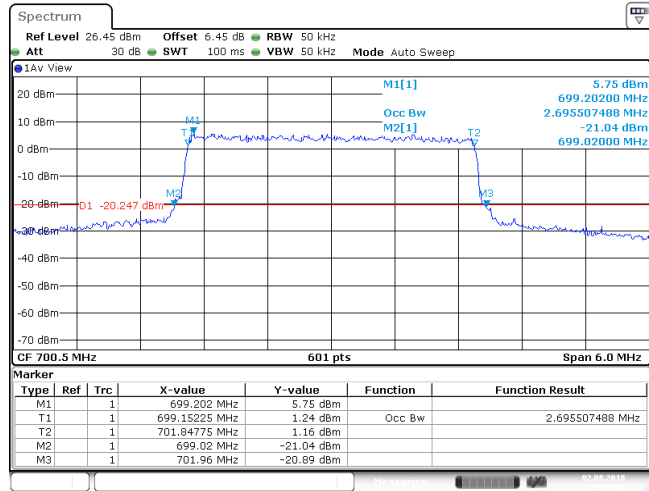
Band12_1.4MHz_16QAM_23095_6RB#0



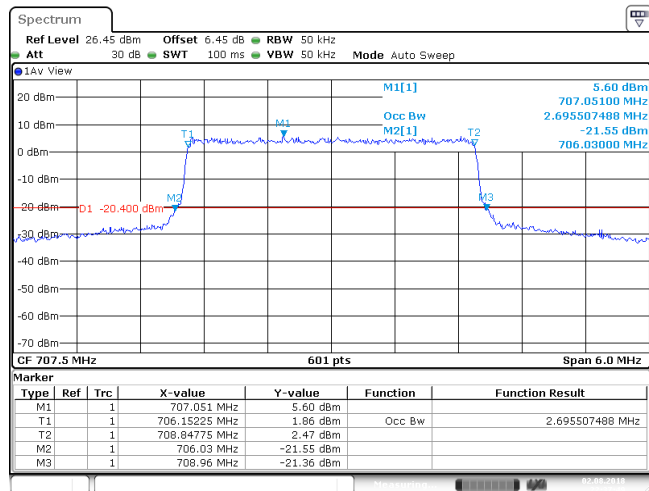
Band12_1.4MHz_16QAM_23173_6RB#0



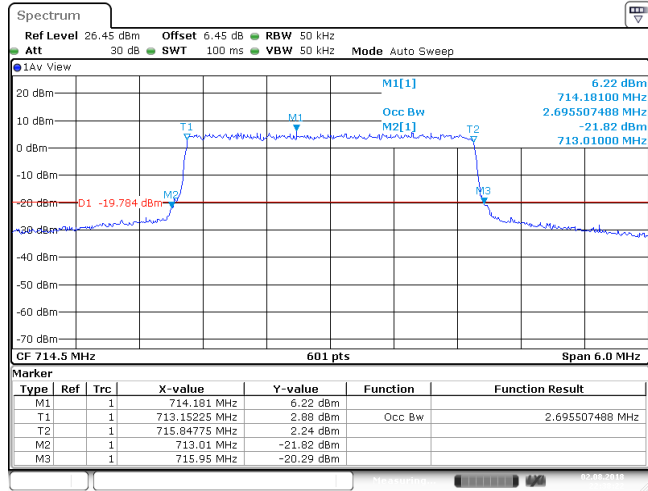
Band12_3MHz_QPSK_23025_15RB#0



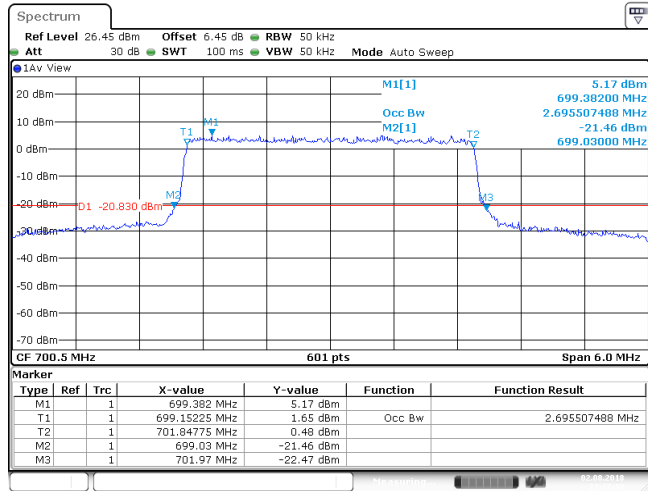
Band12_3MHz_QPSK_23095_15RB#0



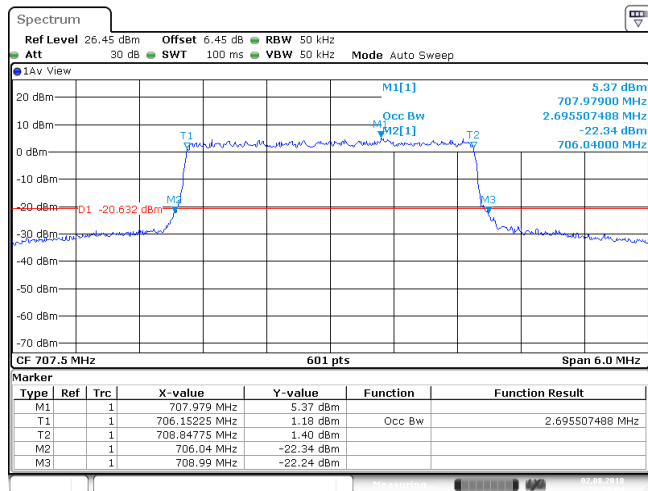
Band12_3MHz_QPSK_23165_15RB#0



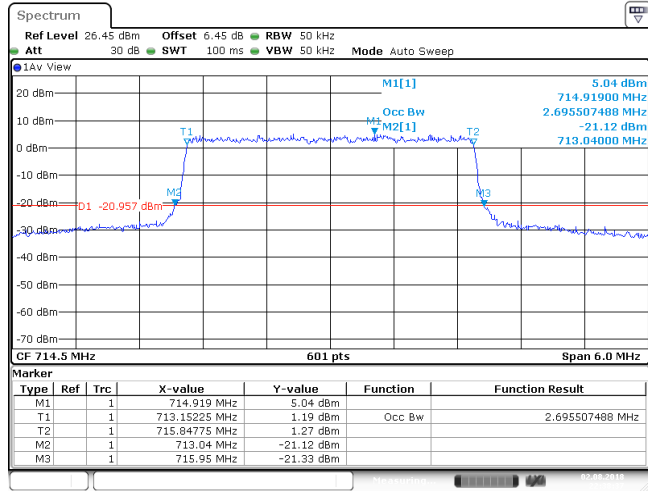
Band12_3MHz_16QAM_23025_15RB#0



Band12_3MHz_16QAM_23095_15RB#0

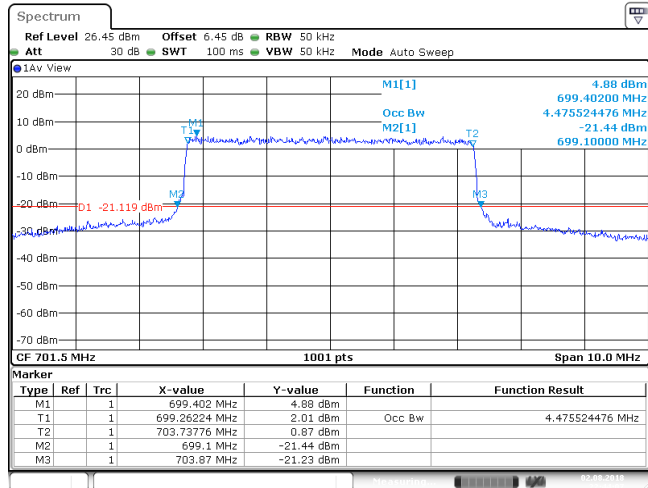


Band12_3MHz_16QAM_23165_15RB#0



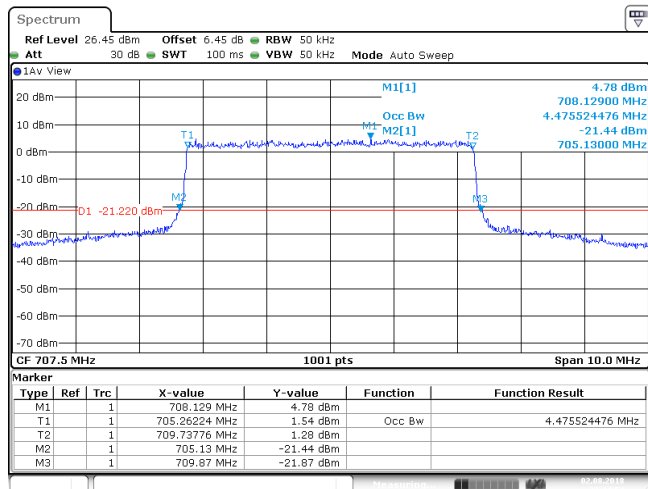
Date: 2.AUG.2018 22:38:36

Band12_5MHz_QPSK_23035_25RB#0



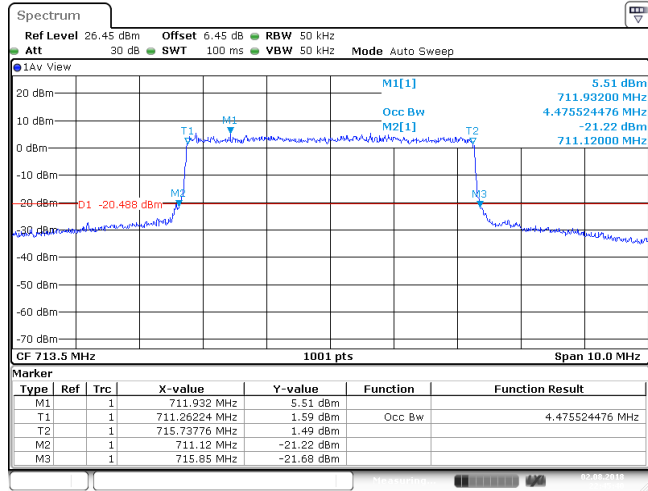
Date: 2.AUG.2018 22:44:07

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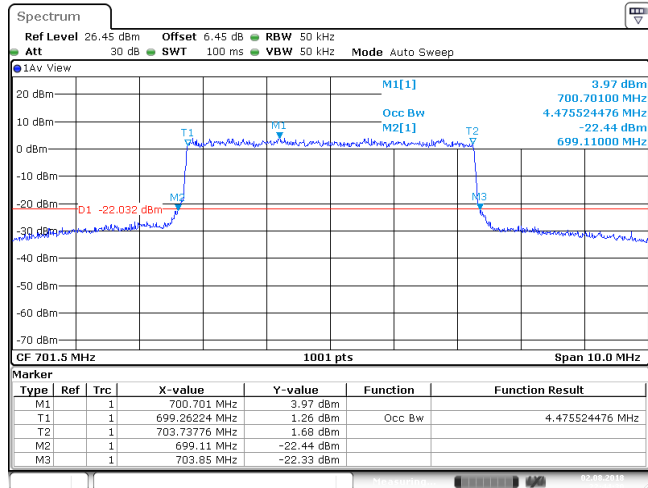
Date: 2.AUG.2018 22:44:54

Band12_5MHz_QPSK_23155_25RB#0



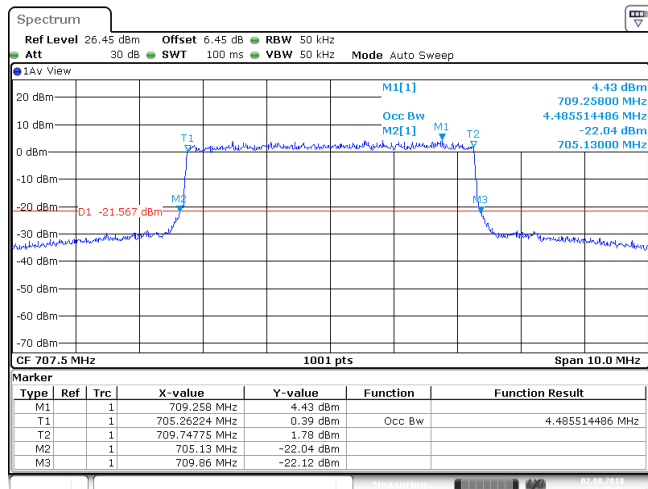
Date: 2.AUG.2018 22:45:40

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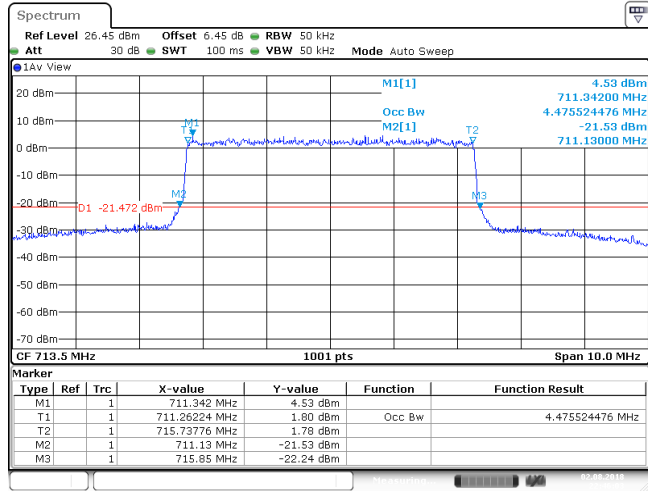
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Band12_5MHz_16QAM_23095_25RB#0

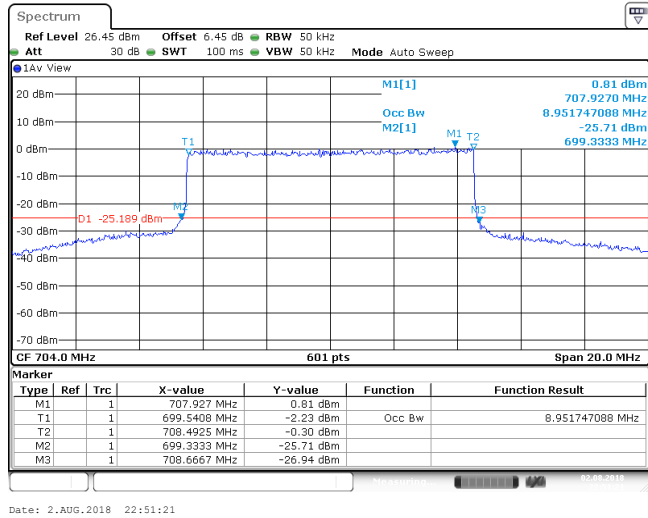


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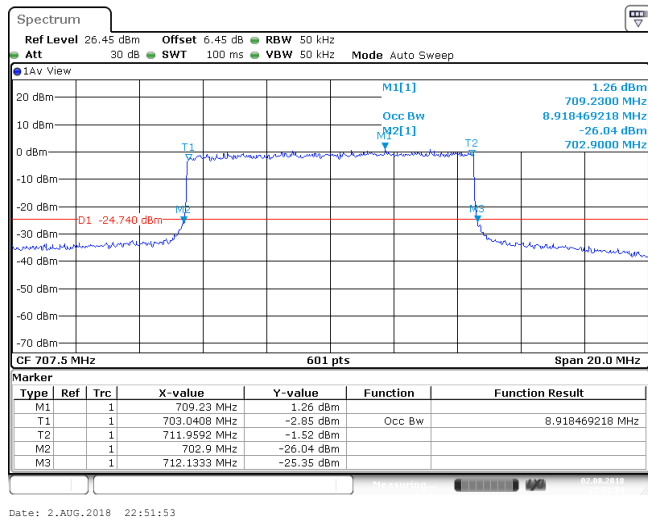
Band12_5MHz_16QAM_23155_25RB#0



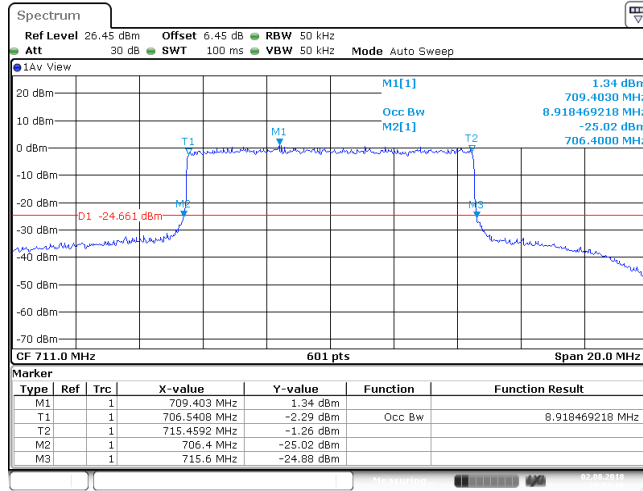
Band12_10MHz_QPSK_23060_50RB#0



Band12_10MHz_QPSK_23095_50RB#0

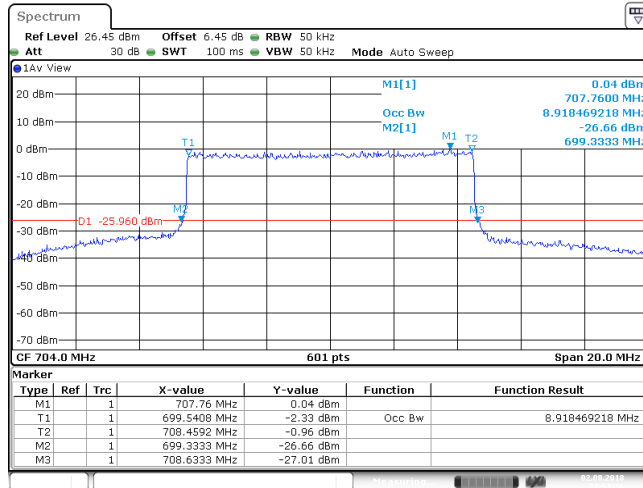


Band12_10MHz_QPSK_23130_50RB#0



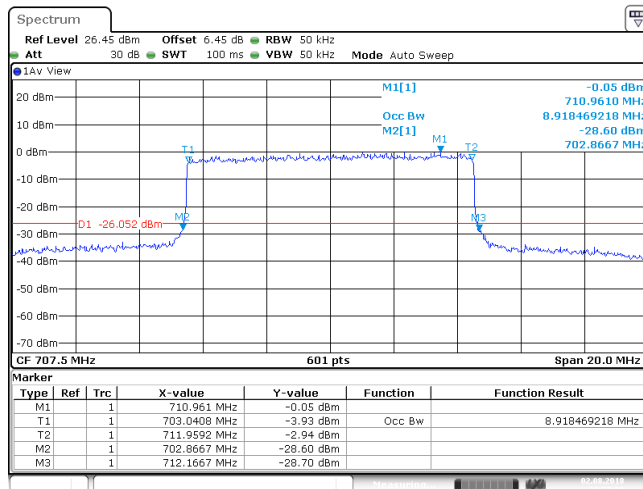
Date: 2.AUG.2018 22:52:26

Band12_10MHz_16QAM_23060_50RB#0



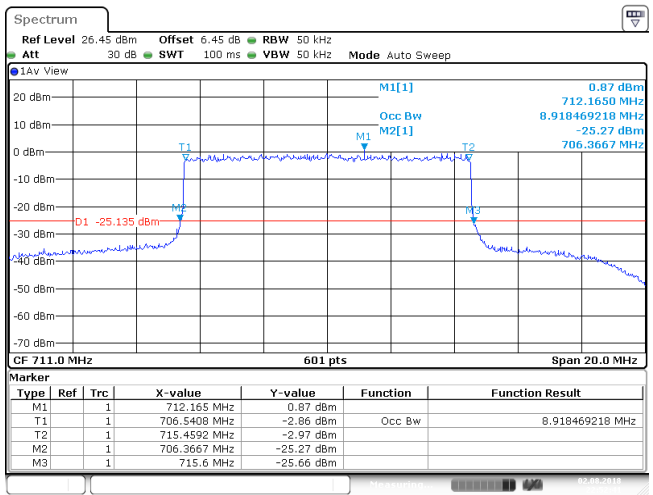
Date: 2.AUG.2018 22:51:36

Band12_10MHz_16QAM_23095_50RB#0



Date: 2.AUG.2018 22:52:09

Band12_10MHz_16QAM_23130_50RB#0



Date: 2.AUG.2018 22:52:41

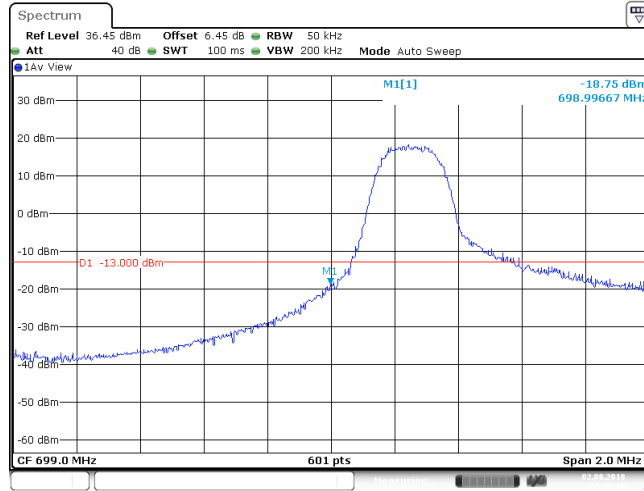
Appendix C: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-18.75	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-21.18	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-16.16	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-20.89	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-16.05	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-22.68	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-17.69	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-22.48	PASS
Band12	3MHz	QPSK	23025	1RB#0	-13.56	PASS
Band12	3MHz	QPSK	23025	15RB#0	-21.30	PASS
Band12	3MHz	QPSK	23165	1RB#0	-28.73	PASS
Band12	3MHz	QPSK	23165	15RB#0	-21.49	PASS
Band12	3MHz	16QAM	23025	1RB#0	-13.07	PASS
Band12	3MHz	16QAM	23025	15RB#0	-22.15	PASS
Band12	3MHz	16QAM	23165	1RB#0	-28.96	PASS
Band12	3MHz	16QAM	23165	15RB#0	-22.50	PASS
Band12	5MHz	QPSK	23035	1RB#0	-20.32	PASS
Band12	5MHz	QPSK	23035	25RB#0	-24.92	PASS
Band12	5MHz	QPSK	23155	1RB#0	-36.61	PASS
Band12	5MHz	QPSK	23155	25RB#0	-27.34	PASS
Band12	5MHz	16QAM	23035	1RB#0	-21.53	PASS
Band12	5MHz	16QAM	23035	25RB#0	-27.00	PASS
Band12	5MHz	16QAM	23155	1RB#0	-38.89	PASS
Band12	5MHz	16QAM	23155	25RB#0	-27.99	PASS
Band12	10MHz	QPSK	23060	1RB#0	-27.04	PASS
Band12	10MHz	QPSK	23060	50RB#0	-26.96	PASS
Band12	10MHz	QPSK	23130	1RB#0	-41.92	PASS
Band12	10MHz	QPSK	23130	50RB#0	-29.53	PASS
Band12	10MHz	16QAM	23060	1RB#0	-25.32	PASS
Band12	10MHz	16QAM	23060	50RB#0	-28.36	PASS
Band12	10MHz	16QAM	23130	1RB#0	-40.53	PASS
Band12	10MHz	16QAM	23130	50RB#0	-29.93	PASS

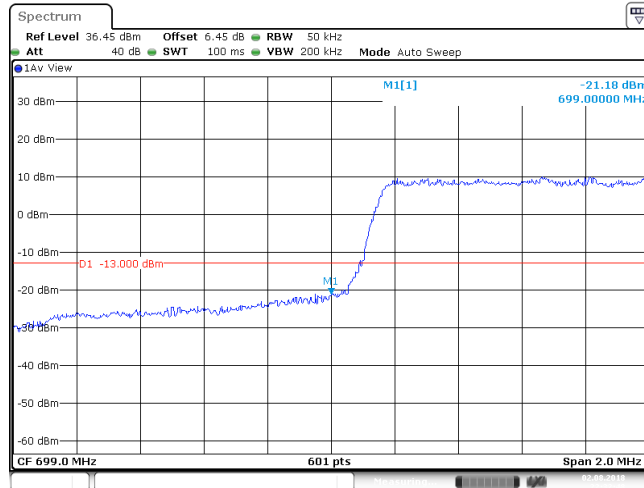
Test Graphs

Band12_1.4MHz_QPSK_23017_1RB#0



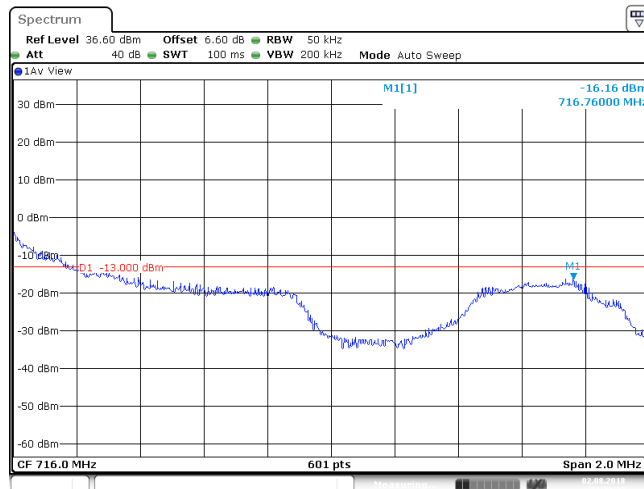
Date: 2.AUG.2018 22:32:18

Band12_1.4MHz_QPSK_23017_6RB#0



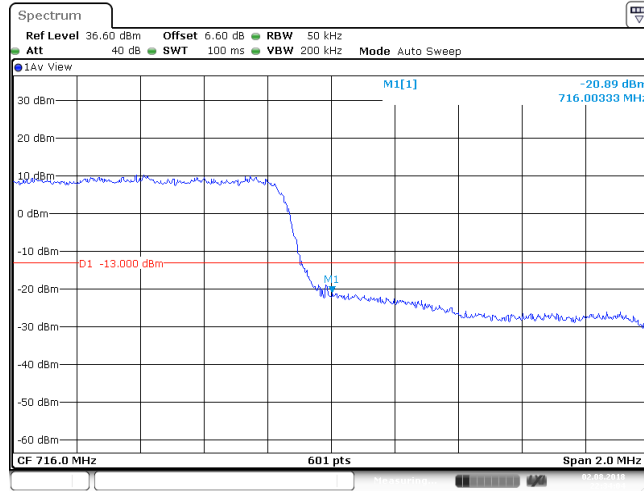
Date: 2.AUG.2018 22:32:49

Band12_1.4MHz_QPSK_23173_1RB#0

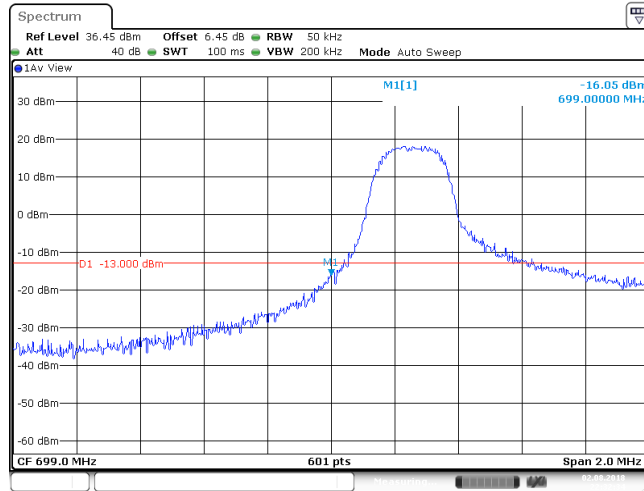


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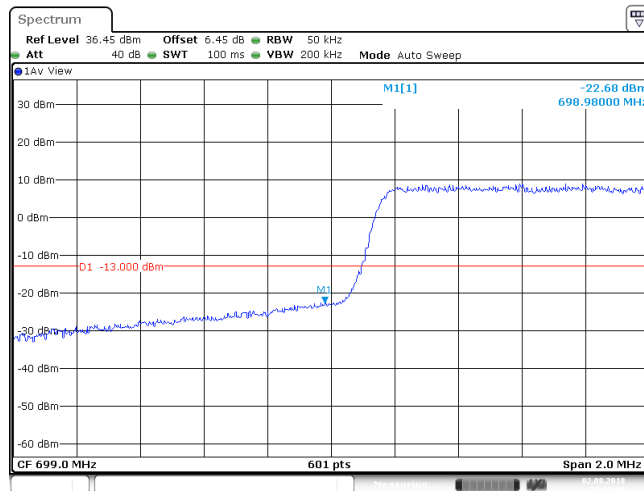
Band12_1.4MHz_QPSK_23173_6RB#0



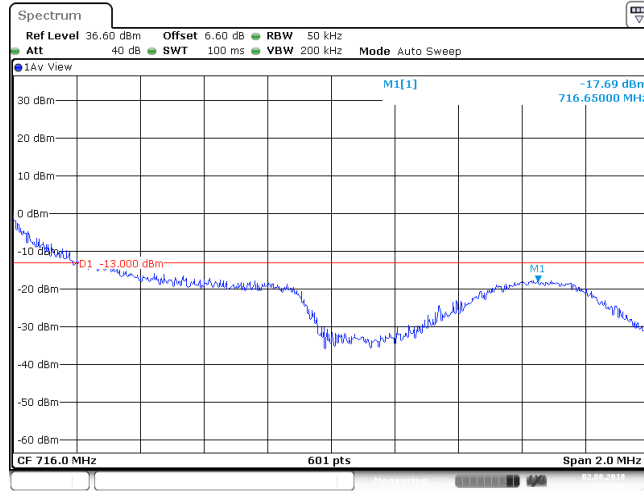
Band12_1.4MHz_16QAM_23017_1RB#0



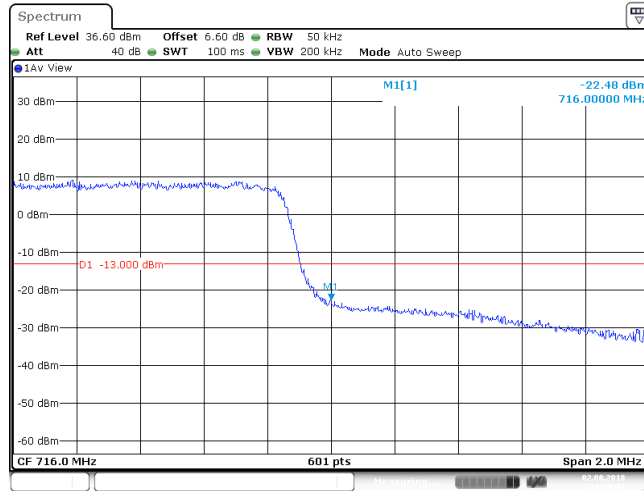
Band12_1.4MHz_16QAM_23017_6RB#0



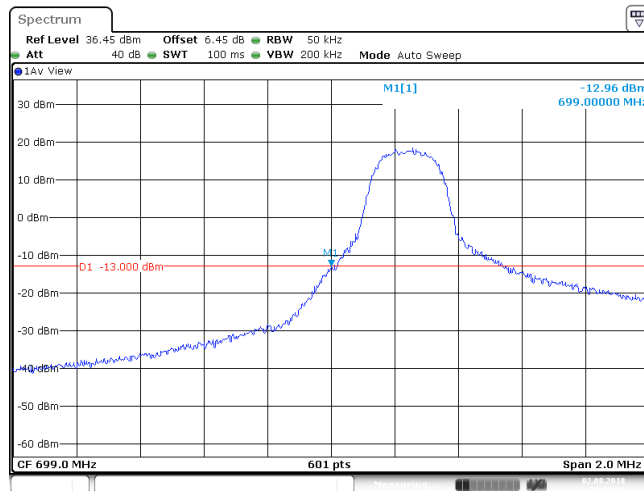
Band12_1.4MHz_16QAM_23173_1RB#0



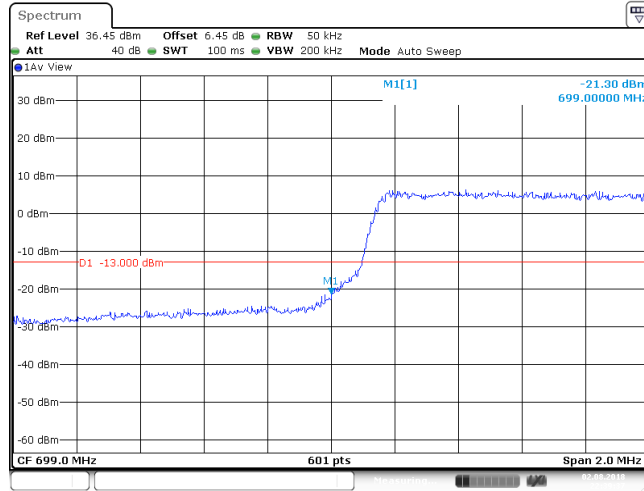
Band12_1.4MHz_16QAM_23173_6RB#0



Band12_3MHz_QPSK_23025_1RB#0

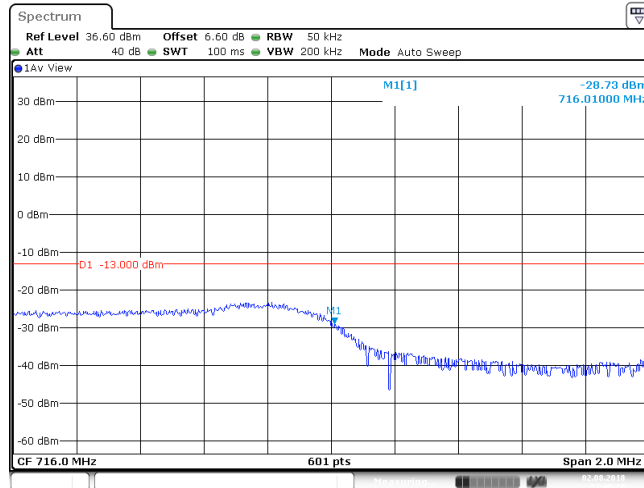


Band12_3MHz_QPSK_23025_15RB#0



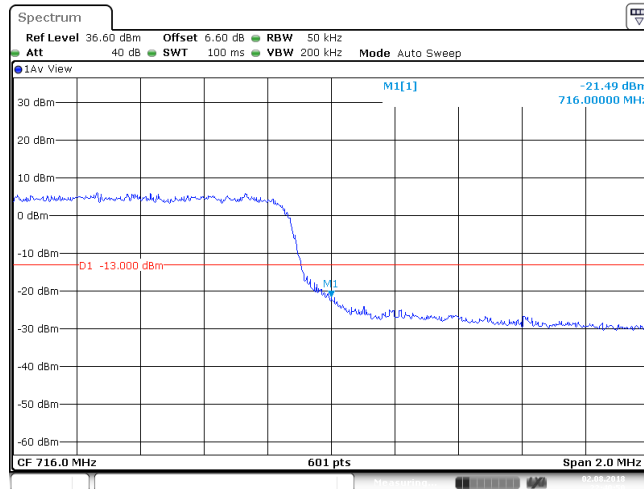
Date: 2.AUG.2018 22:39:37

Band12_3MHz_QPSK_23165_1RB#0



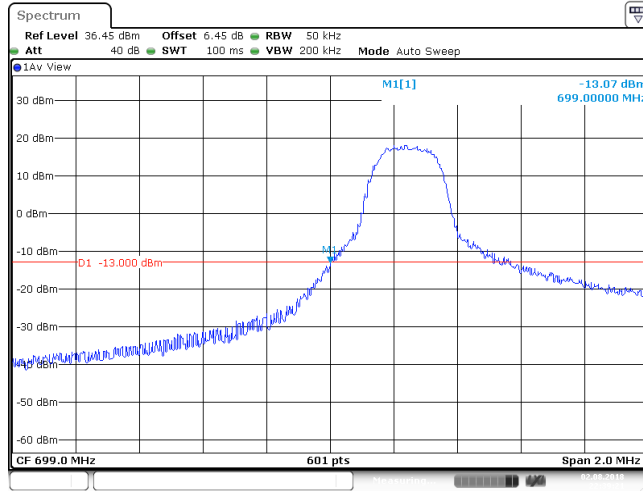
Date: 2.AUG.2018 22:40:20

Band12_3MHz_QPSK_23165_15RB#0

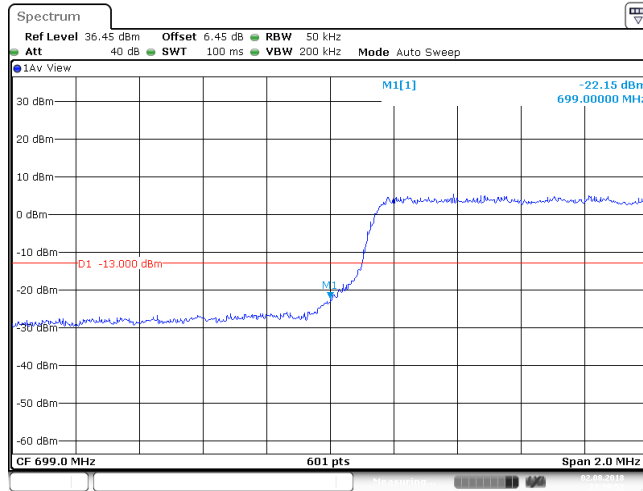


Date: 2.AUG.2018 22:40:50

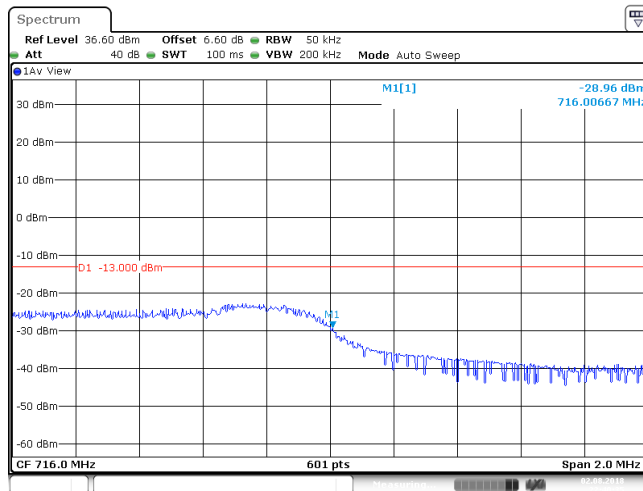
Band12_3MHz_16QAM_23025_1RB#0



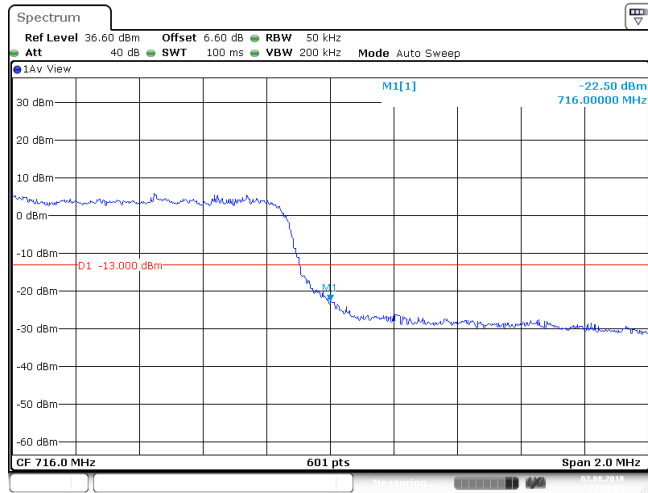
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Band12_3MHz_16QAM_23165_1RB#0

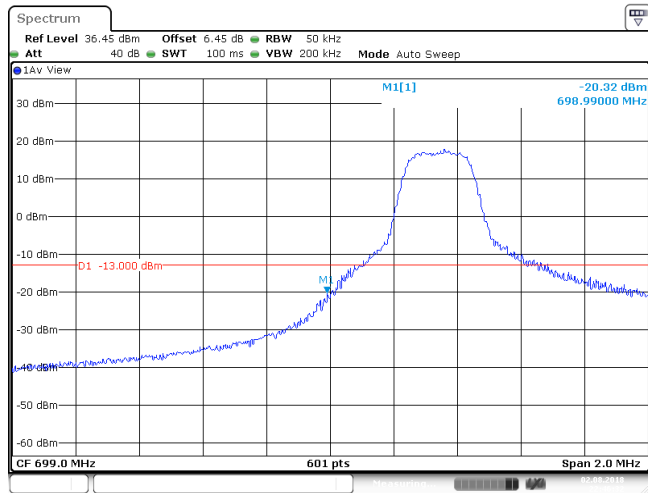


Band12_3MHz_16QAM_23165_15RB#0



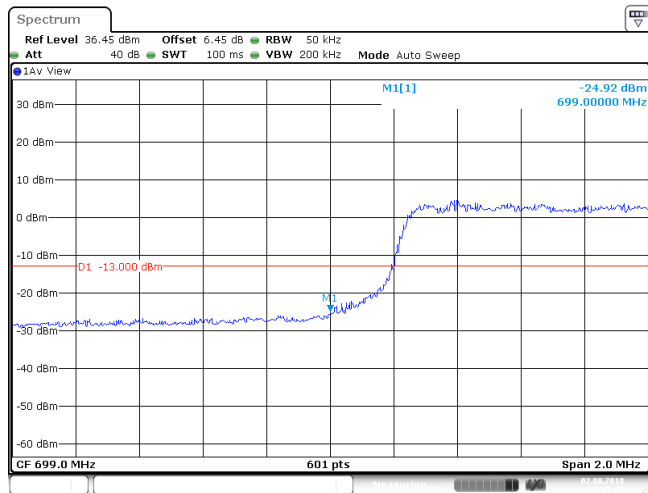
Date: 2.AUG.2018 22:41:06

Band12_5MHz_QPSK_23035_1RB#0



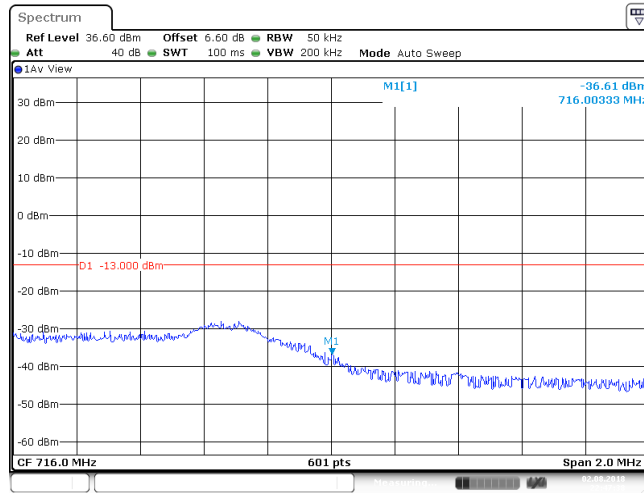
Date: 2.AUG.2018 22:46:32

Band12_5MHz_QPSK_23035_25RB#0

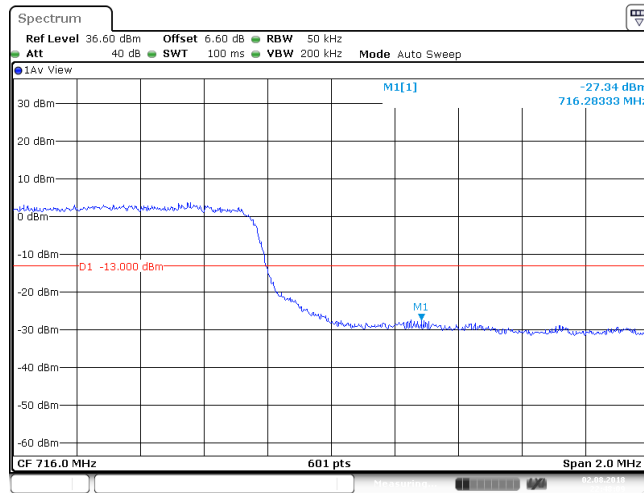


Date: 2.AUG.2018 22:47:03

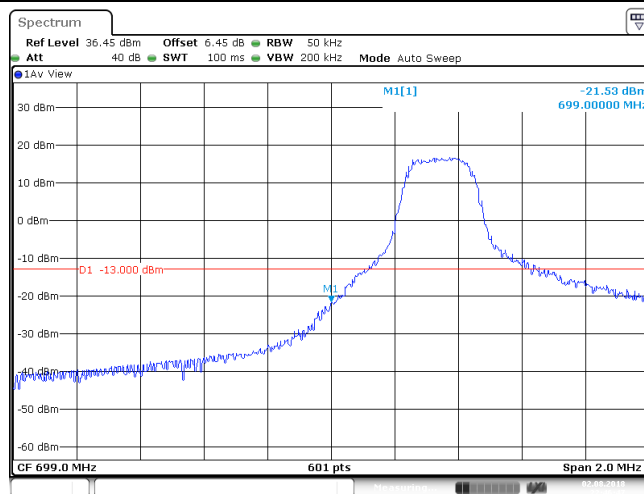
Band12_5MHz_QPSK_23155_1RB#0



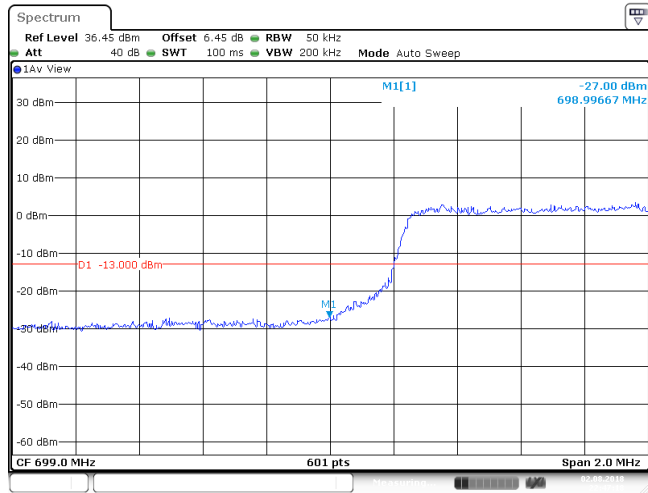
Band12_5MHz_QPSK_23155_25RB#0



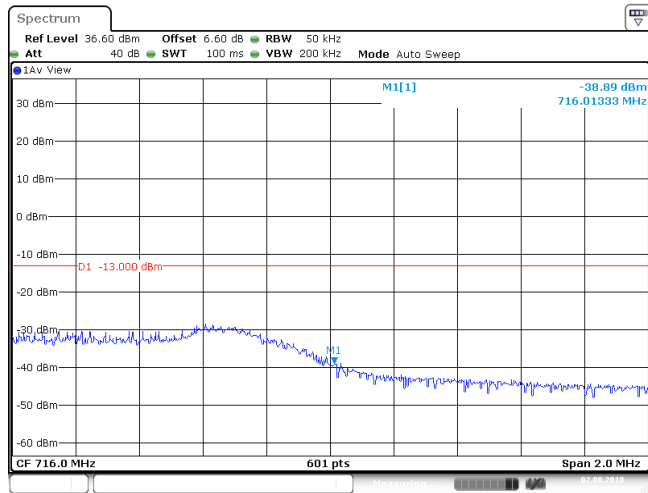
Band12_5MHz_16QAM_23035_1RB#0



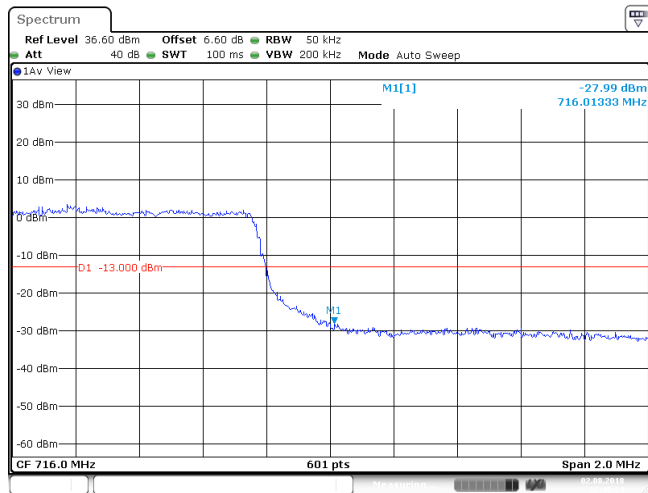
Band12_5MHz_16QAM_23035_25RB#0



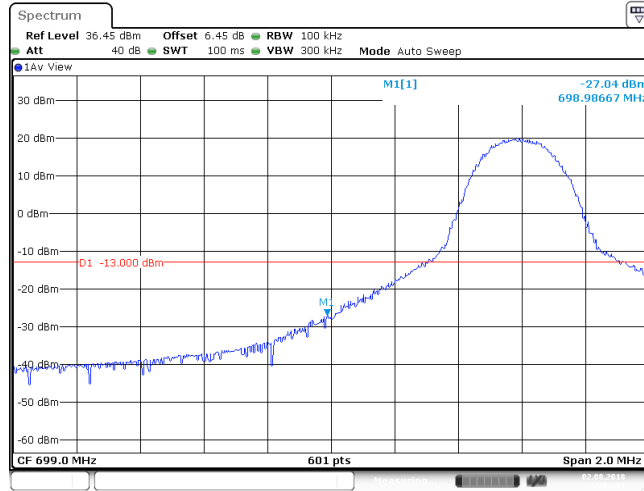
Band12_5MHz_16QAM_23155_1RB#0



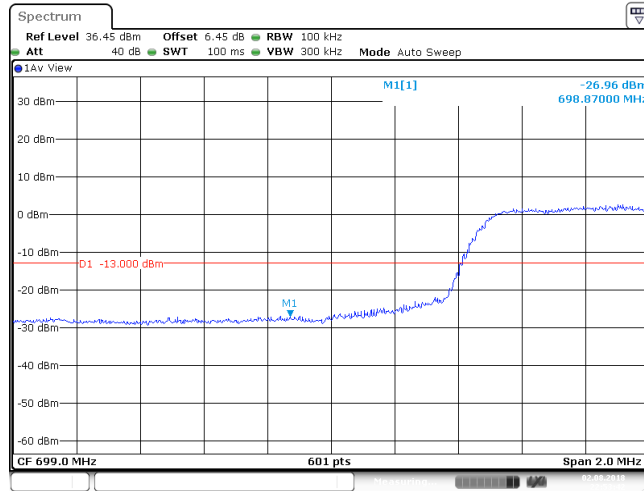
Band12_5MHz_16QAM_23155_25RB#0



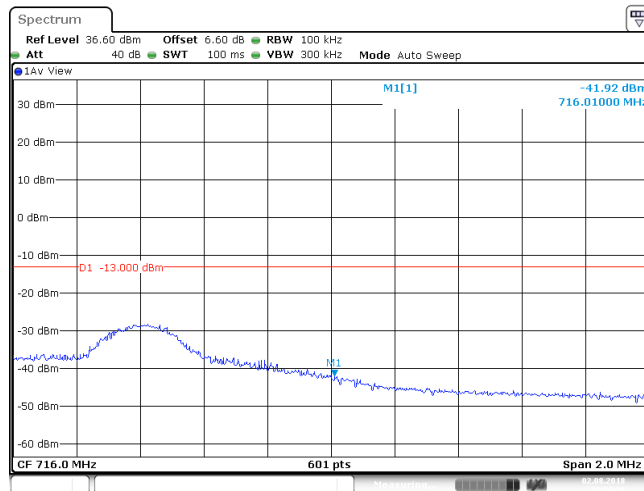
Band12_10MHz_QPSK_23060_1RB#0



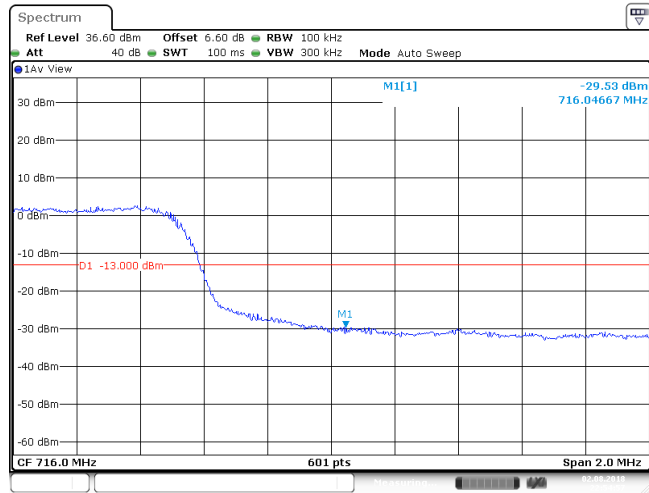
Band12_10MHz_QPSK_23060_50RB#0



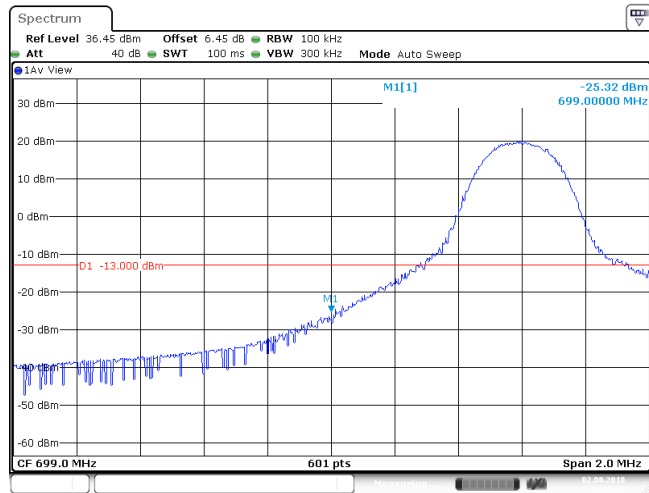
Band12_10MHz_QPSK_23130_1RB#0



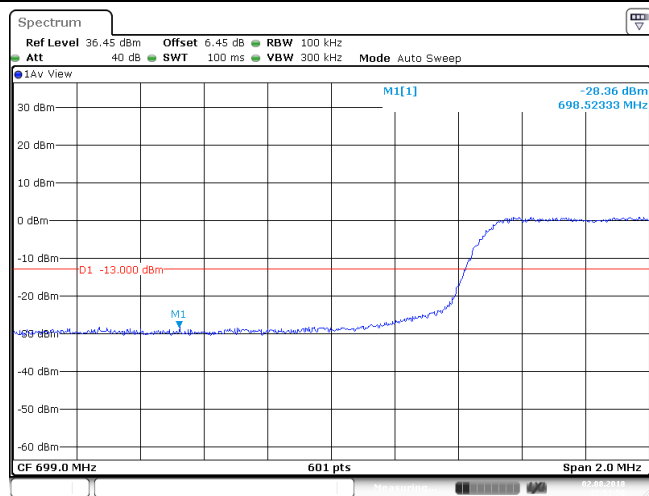
Band12_10MHz_QPSK_23130_50RB#0



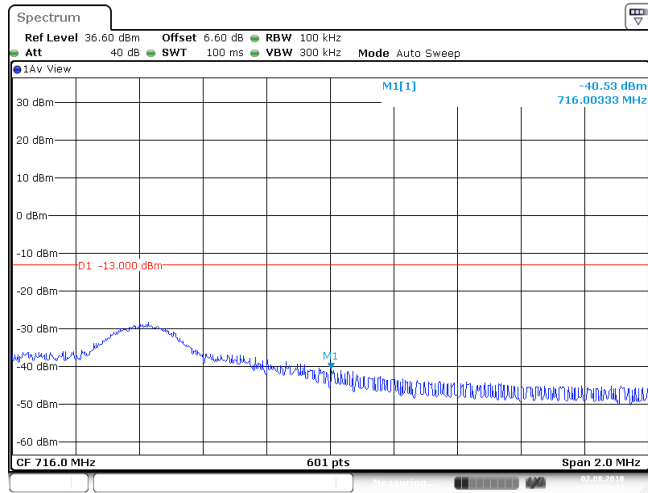
Band12_10MHz_16QAM_23060_1RB#0



Band12_10MHz_16QAM_23060_50RB#0

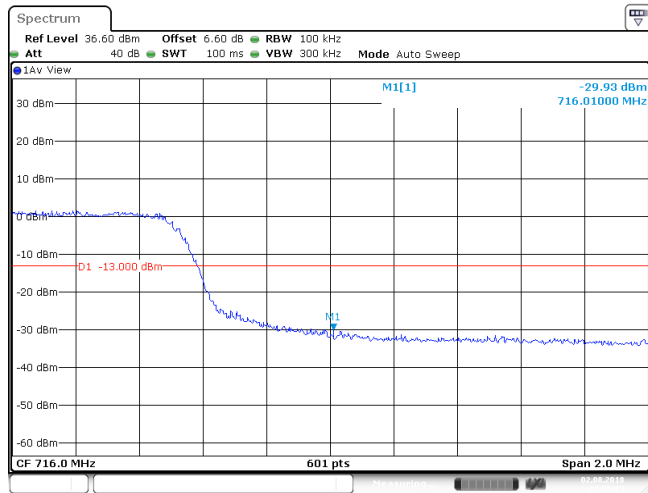


Band12_10MHz_16QAM_23130_1RB#0



Date: 2.AUG.2018 22:54:41

Band12_10MHz_16QAM_23130_50RB#0



Date: 2.AUG.2018 22:55:12