

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

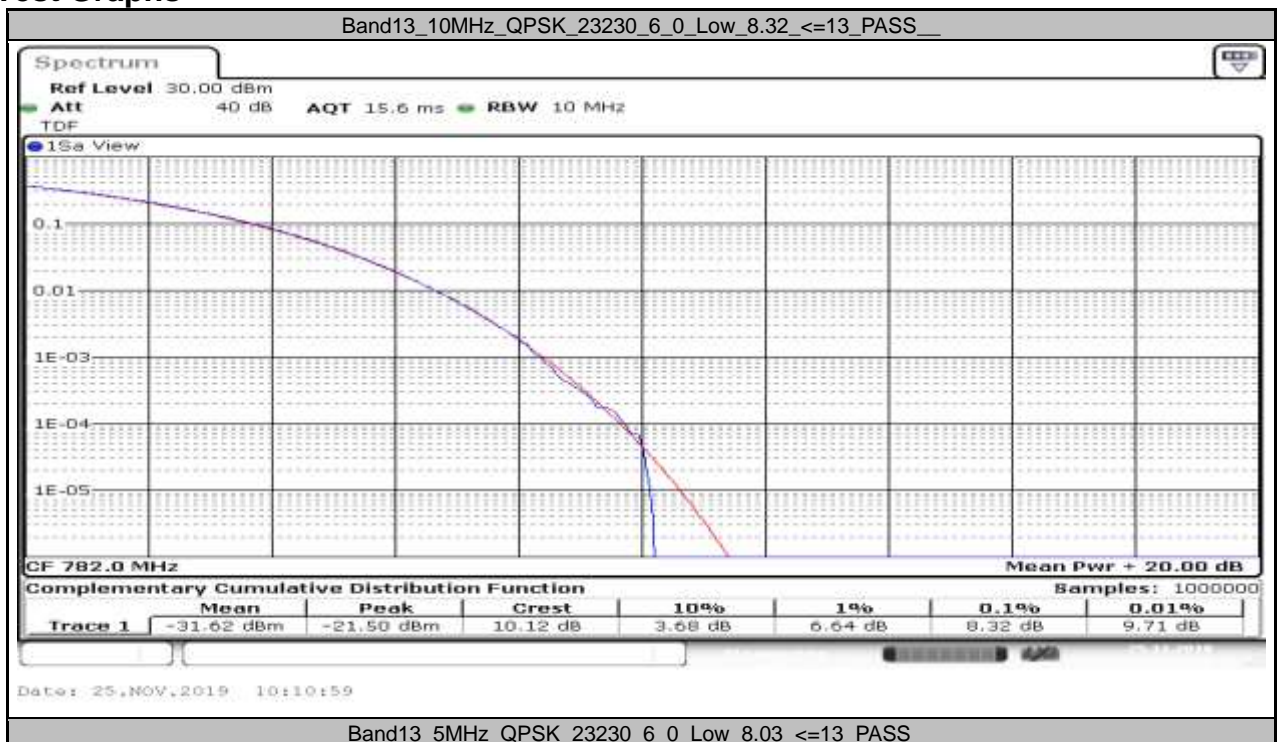
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP		Limit (watts)	Verdict
								dBm	Watts		
Band13	5MHz	QPSK	23205	1	0	Low	21.27	21.26	0.134	3	PASS
Band13	5MHz	QPSK	23230	1	0	Low	21.28	21.27	0.134	3	PASS
Band13	5MHz	QPSK	23255	1	5	High	20.96	20.95	0.124	3	PASS
Band13	5MHz	QPSK	23255	3	3	High	21.23	21.22	0.132	3	PASS
Band13	5MHz	QPSK	23205	6	0	Low	20.11	20.1	0.102	3	PASS
Band13	5MHz	QPSK	23230	6	0	Low	20.22	20.21	0.105	3	PASS
Band13	5MHz	16QAM	23205	1	0	Low	20.61	20.6	0.115	3	PASS
Band13	5MHz	16QAM	23230	1	0	Low	20.95	20.94	0.124	3	PASS
Band13	5MHz	16QAM	23255	1	5	High	20.54	20.53	0.113	3	PASS
Band13	5MHz	16QAM	23255	3	3	High	20.66	20.65	0.116	3	PASS
Band13	5MHz	16QAM	23205	6	0	Low	20.06	20.05	0.101	3	PASS
Band13	5MHz	16QAM	23230	6	0	Low	20.25	20.24	0.106	3	PASS
Band13	10MHz	QPSK	23230	1	0	Low	21.28	21.27	0.134	3	PASS
Band13	10MHz	QPSK	23230	1	5	High	21.39	21.38	0.137	3	PASS
Band13	10MHz	QPSK	23230	5	0	Low	21.17	21.16	0.131	3	PASS
Band13	10MHz	QPSK	23230	5	1	High	21.39	21.38	0.137	3	PASS
Band13	10MHz	16QAM	23230	1	0	Low	20.51	20.5	0.112	3	PASS
Band13	10MHz	16QAM	23230	1	5	High	20.61	20.6	0.115	3	PASS
Band13	10MHz	16QAM	23230	5	0	Low	21.26	21.25	0.133	3	PASS
Band13	10MHz	16QAM	23230	5	1	High	21.07	21.06	0.128	3	PASS

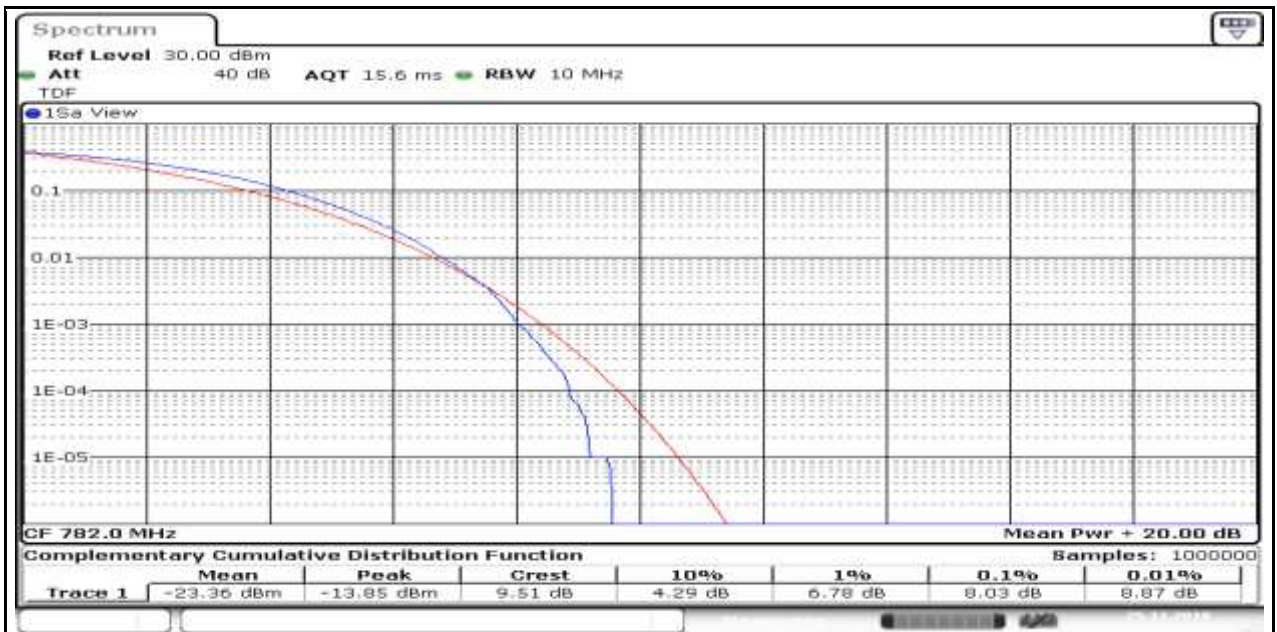
Appendix E.2: Peak-to-Average Ratio (CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	6	0	Low	8.32	<=13	PASS
Band13	5MHz	QPSK	23230	6	0	Low	8.03	<=13	PASS
Band13	10MHz	16QAM	23230	6	0	Low	9.54	<=13	PASS
Band13	5MHz	16QAM	23230	6	0	Low	10.26	<=13	PASS

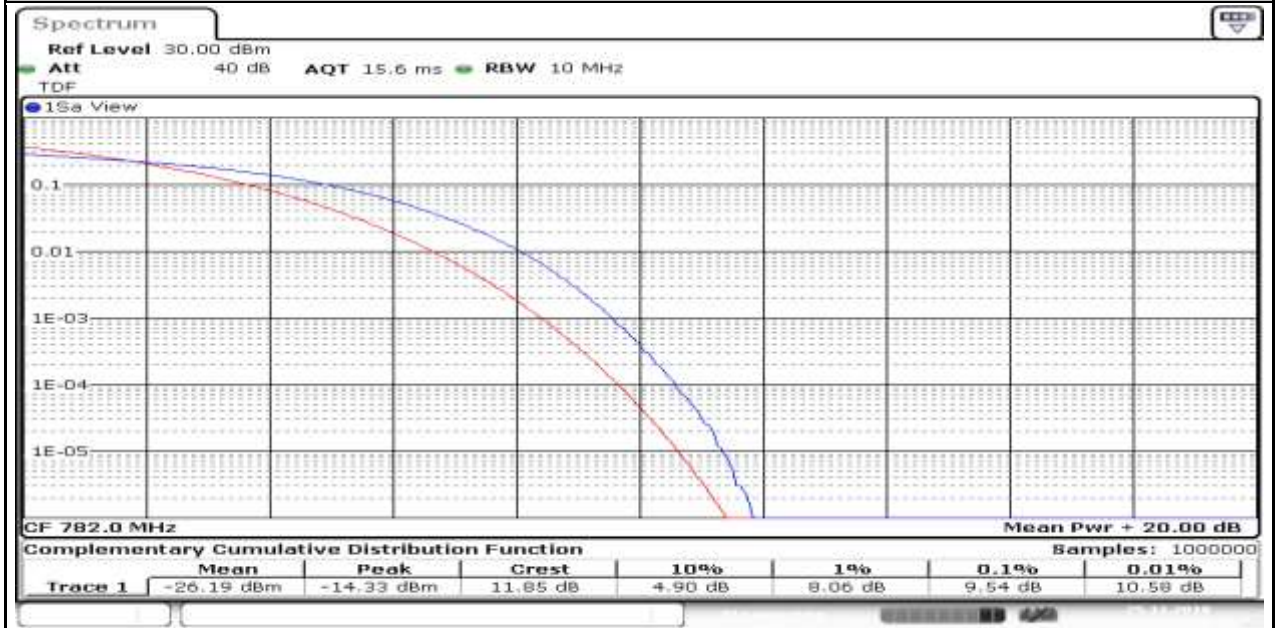
Test Graphs





Date: 25.NOV.2019 10:10:22

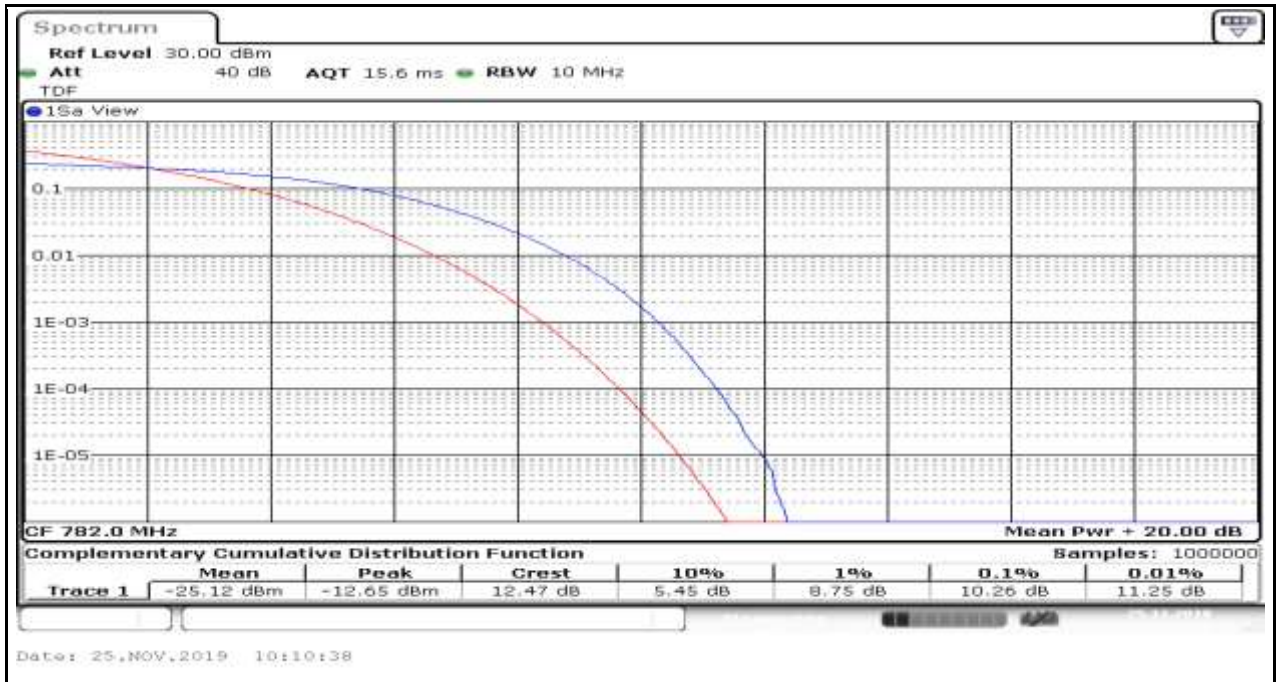
Band13_10MHz_16QAM_23230_6_0_Low_9.54_<=13_PASS_



Date: 25.NOV.2019 10:11:16

Band13_5MHz_16QAM_23230_6_0_Low_10.26_<=13_PASS_

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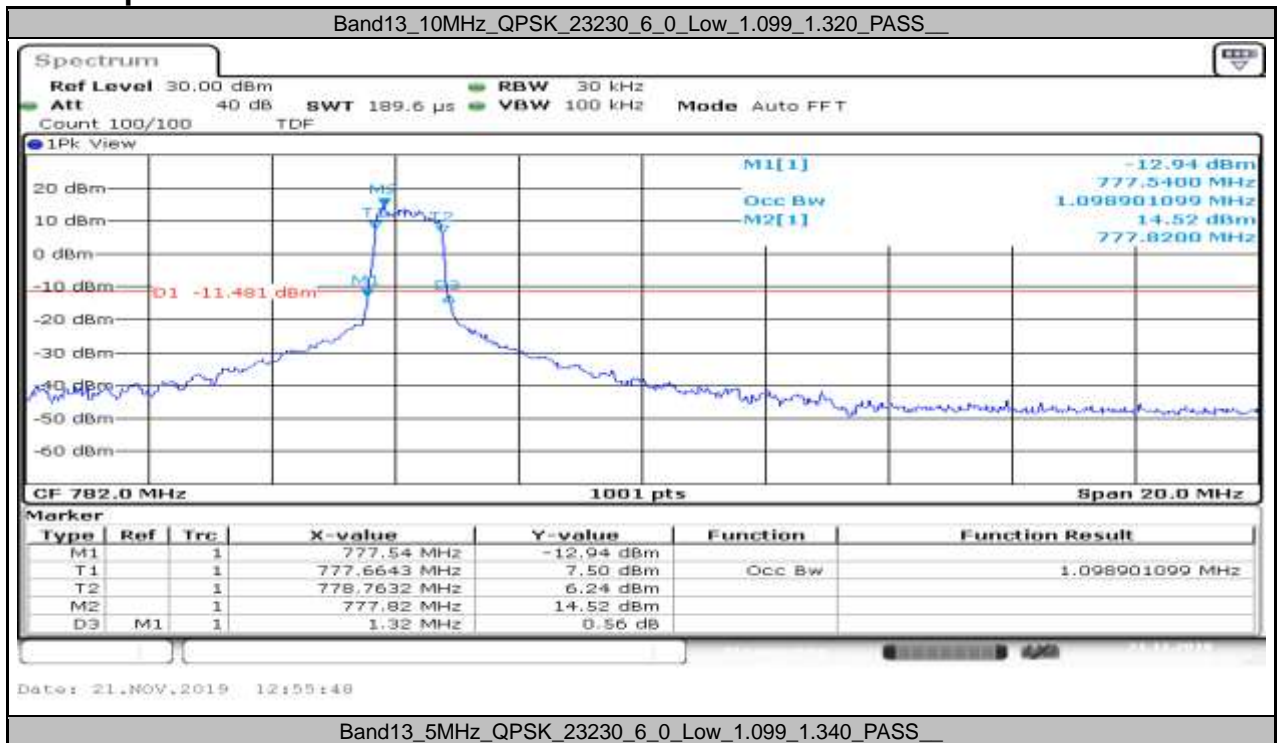


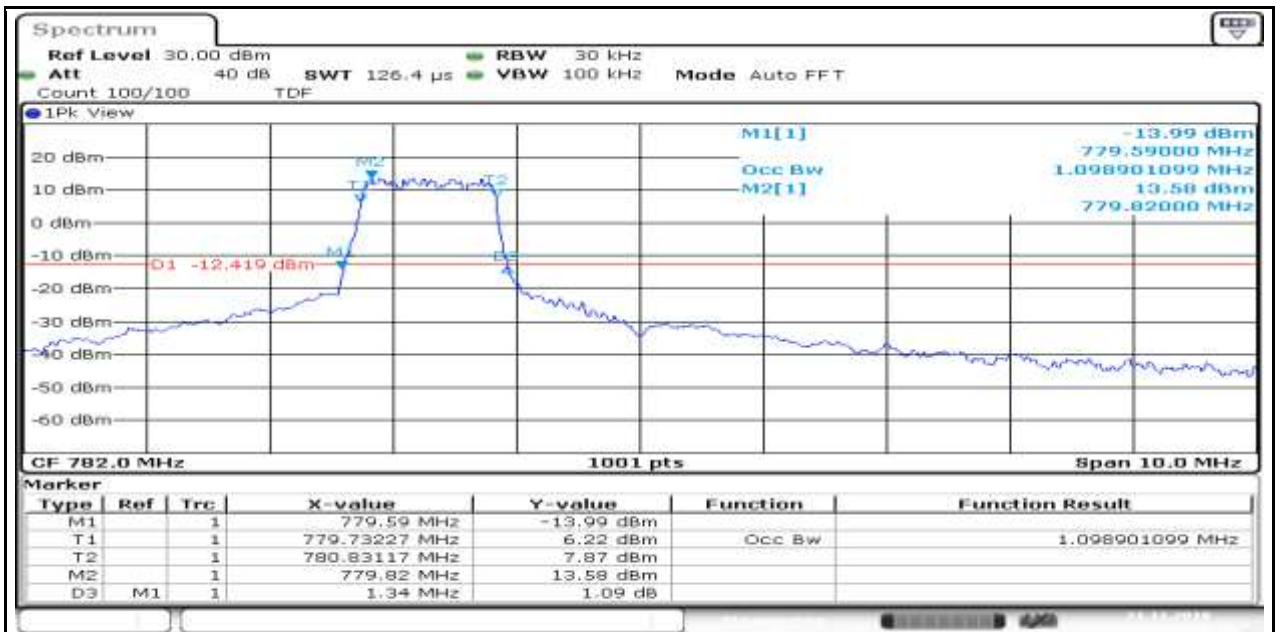
Appendix E.3: 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	10MHz	QPSK	23230	6	0	Low	1.099	1.320	PASS
Band13	5MHz	QPSK	23230	6	0	Low	1.099	1.340	PASS
Band13	10MHz	16QAM	23230	6	0	Low	1.099	1.320	PASS
Band13	5MHz	16QAM	23230	6	0	Low	1.099	1.330	PASS

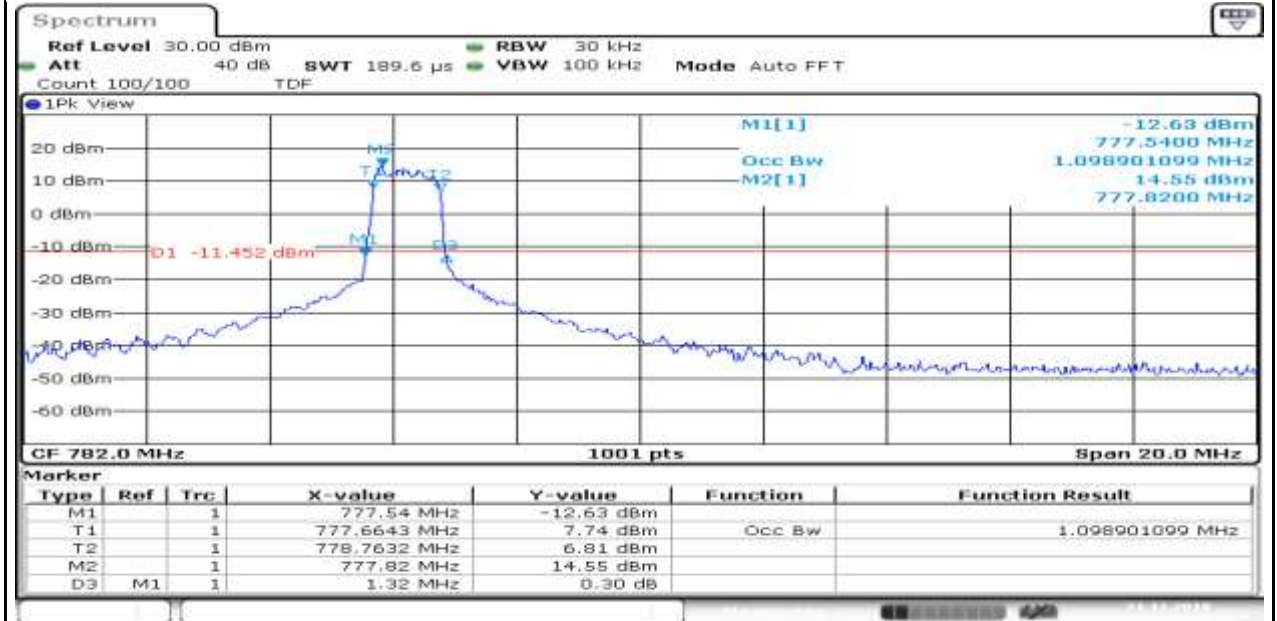
Test Graphs





Date: 21.NOV.2019 12:47:49

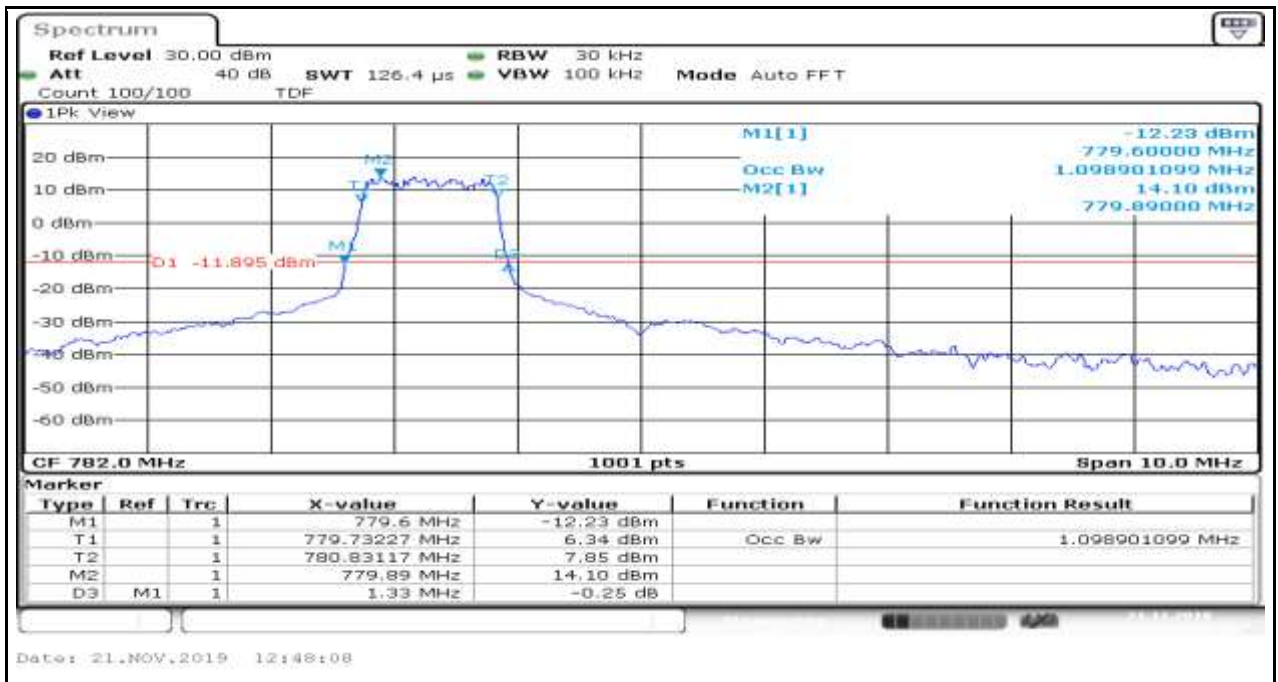
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Band13_5MHz_16QAM_23230_6_0_Low_1.099_1.330_PASS_

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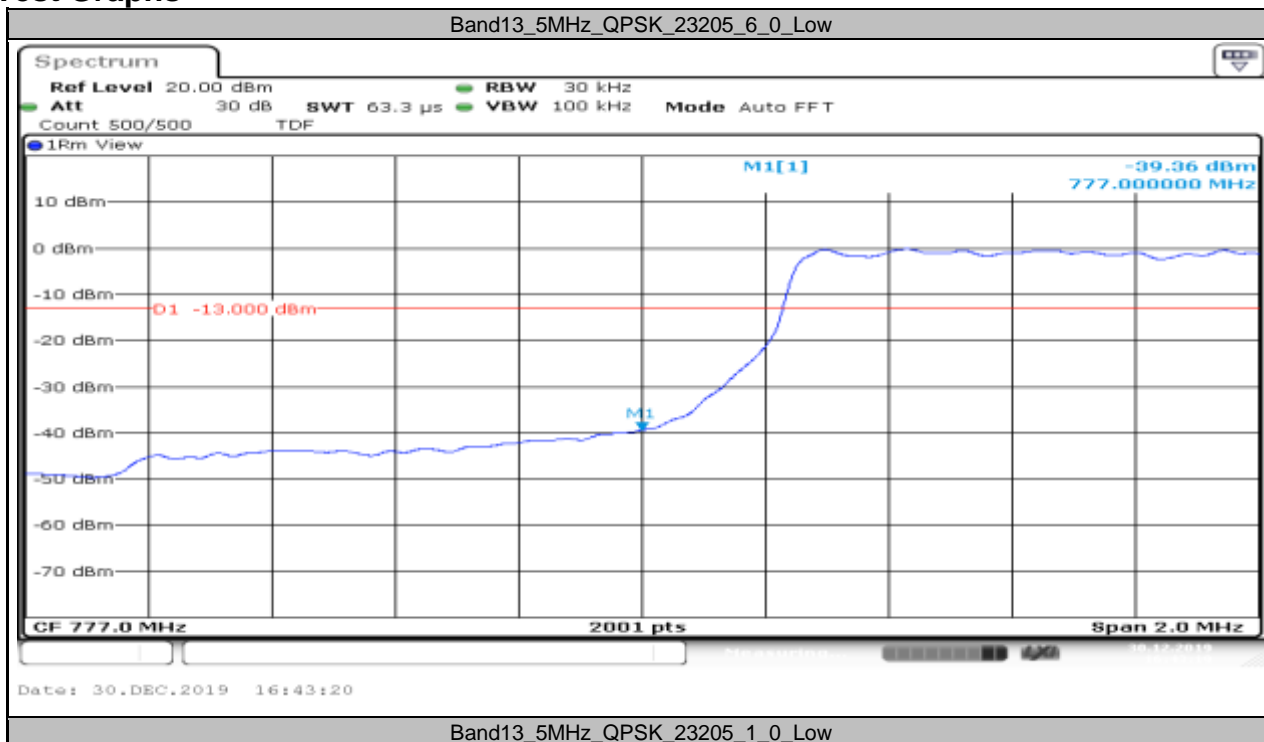


Appendix E.4: Band Edge for M1

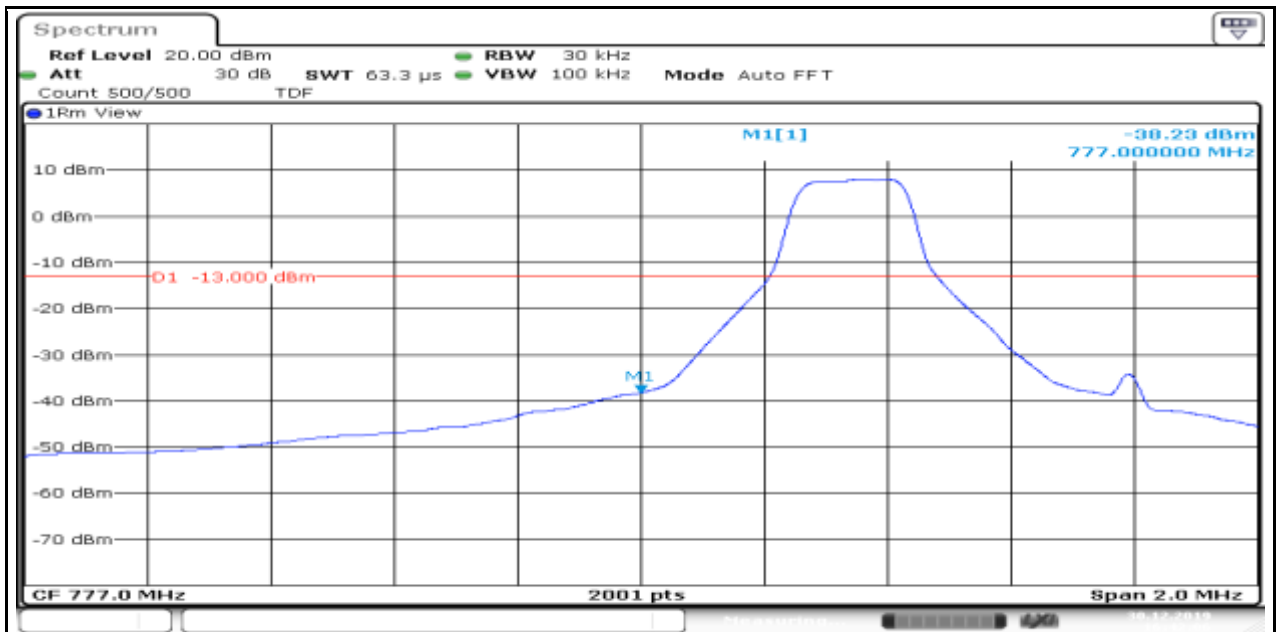
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	6	0	Low	-39.36	PASS
Band13	5MHz	QPSK	23205	1	0	Low	-38.23	PASS
Band13	5MHz	QPSK	23255	3	3	High	-38.80	PASS
Band13	5MHz	QPSK	23255	1	5	High	-33.93	PASS
Band13	5MHz	16QAM	23205	6	0	Low	-40.81	PASS
Band13	5MHz	16QAM	23205	1	0	Low	-39.41	PASS
Band13	5MHz	16QAM	23255	3	3	High	-35.26	PASS
Band13	5MHz	16QAM	23255	1	5	High	-39.49	PASS

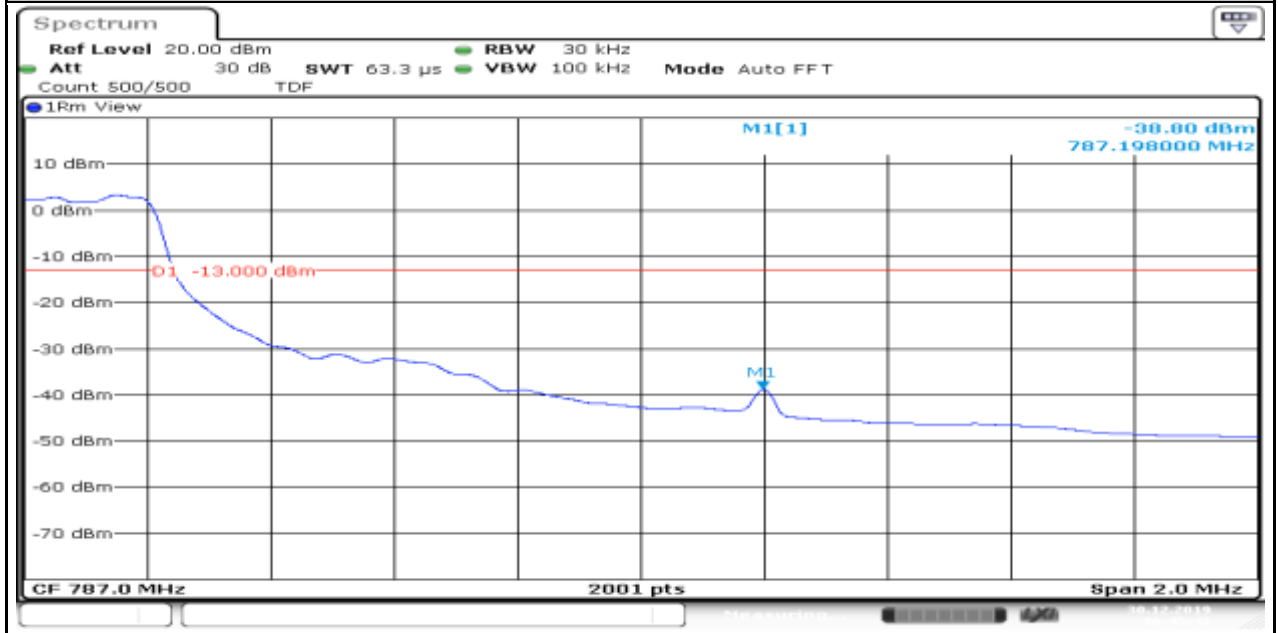
Test Graphs



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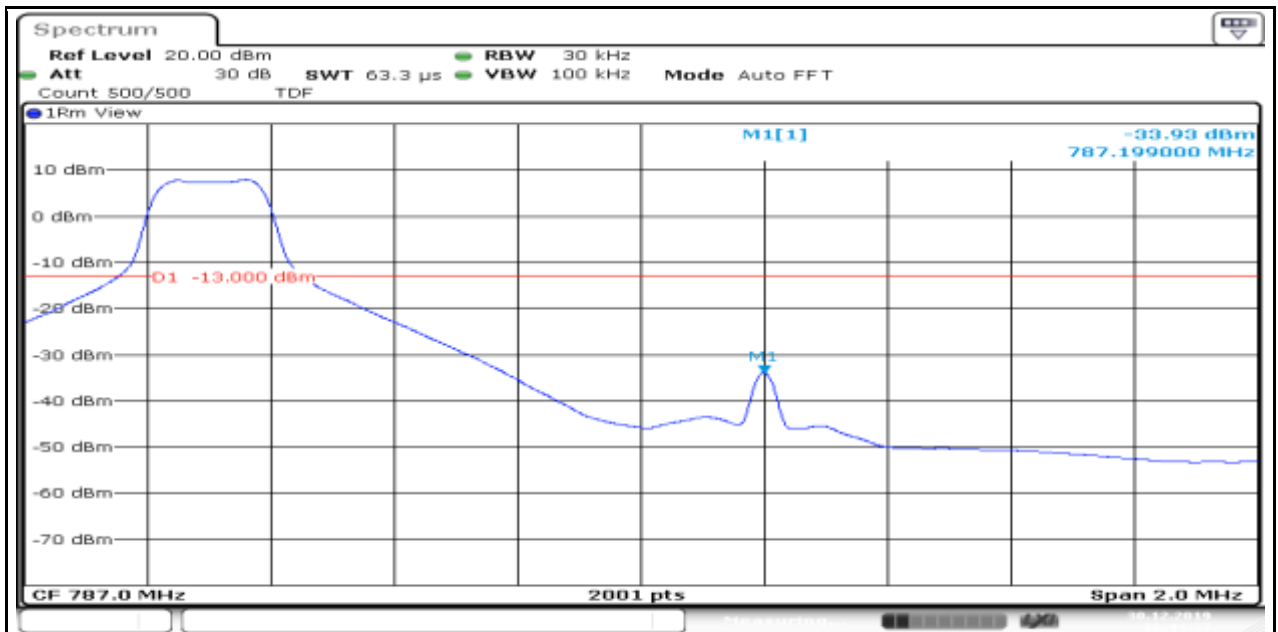


Band13_5MHz_QPSK_23255_3_3_High



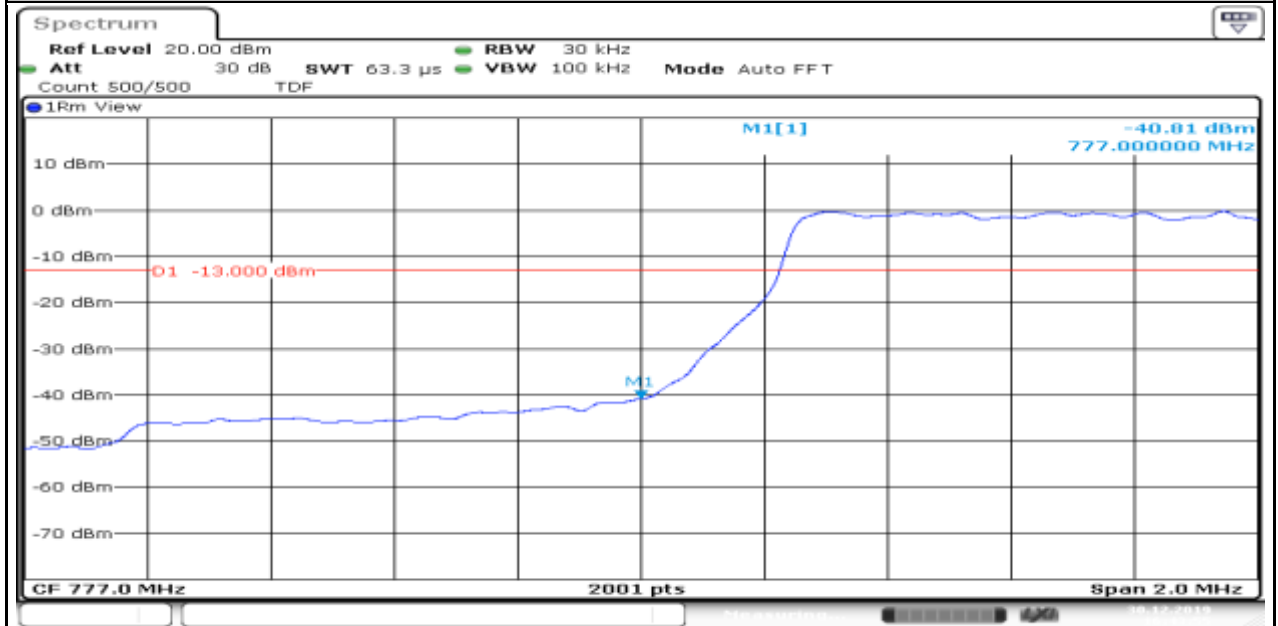
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Date: 30.DEC.2019 16:44:37

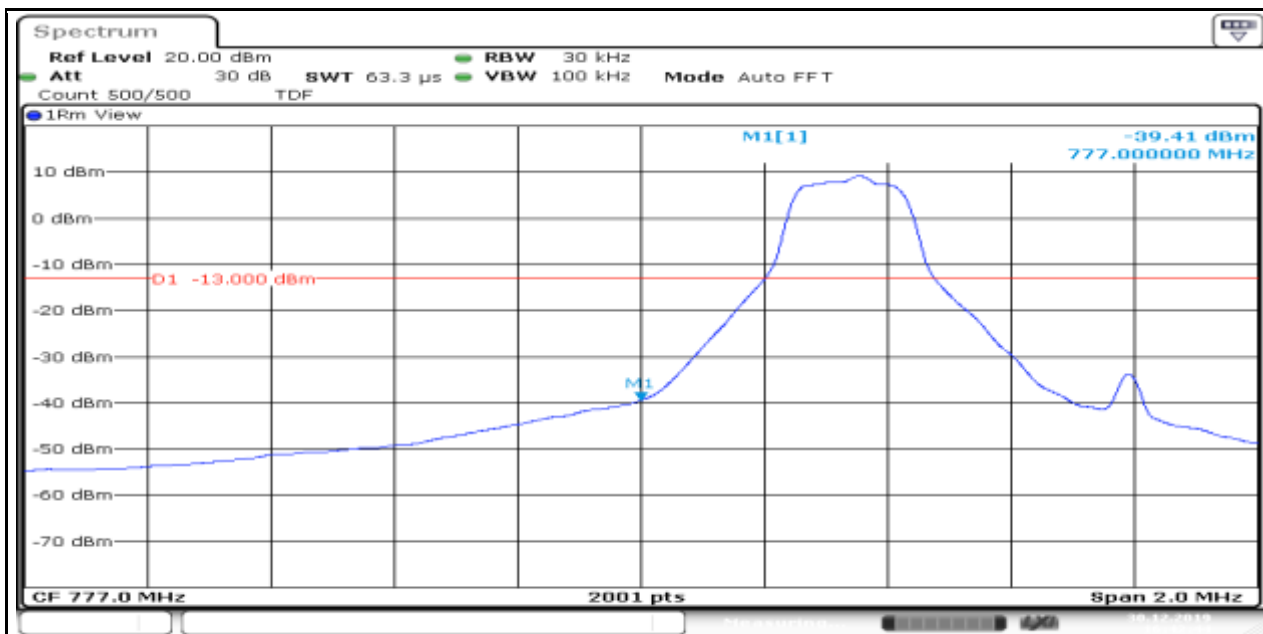
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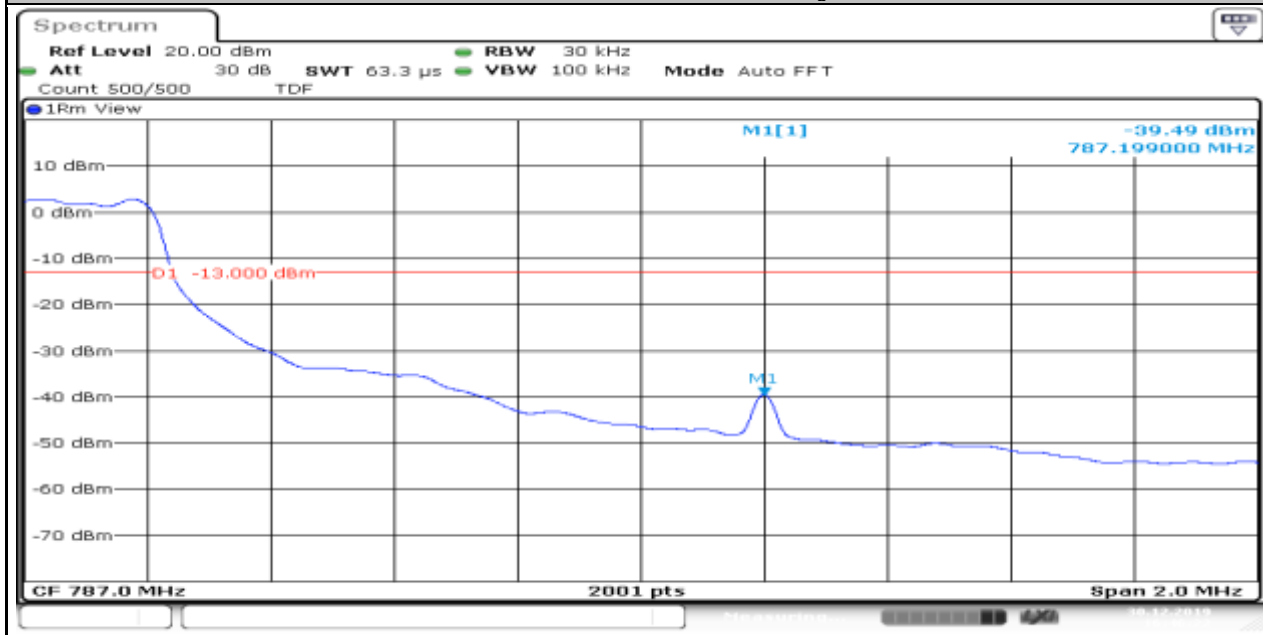
Date: 30.DEC.2019 16:43:55

Band13_5MHz_16QAM_23205_1_0_Low

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Band13_5MHz_16QAM_23255_3_3_High



Band13_5MHz_16QAM_23255_1_5_High

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Appendix E.5: Conducted Spurious Emission for M1

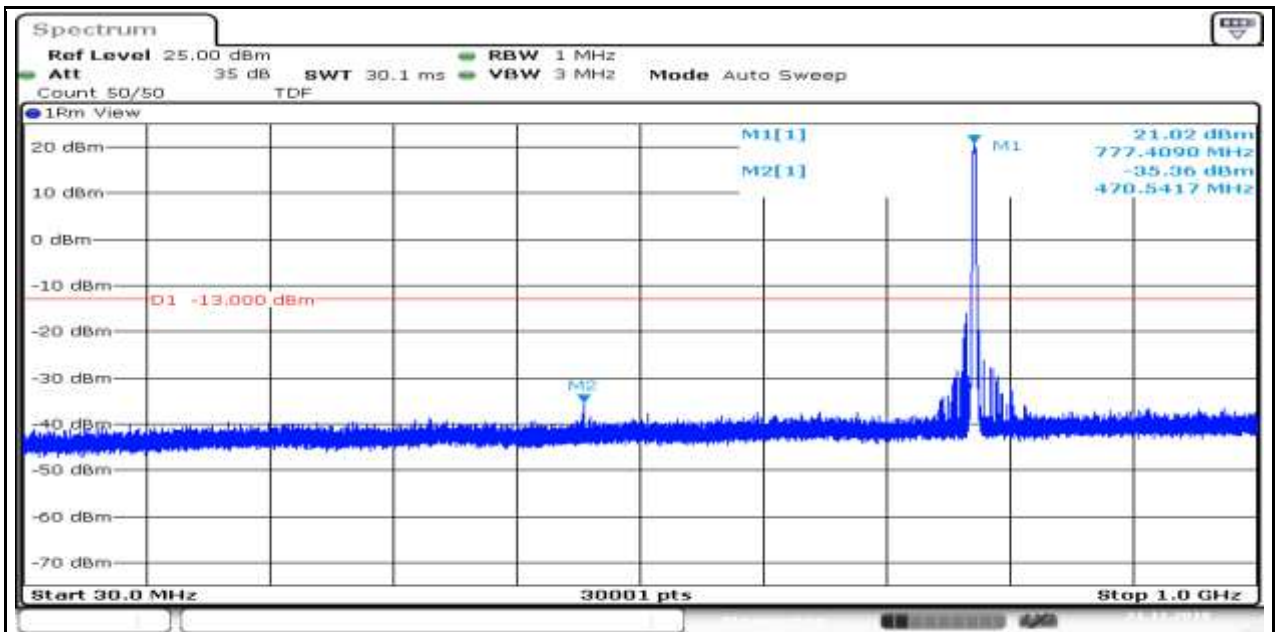
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	6	0	Low	30	1000	-35.36	PASS
Band13	5MHz	QPSK	23205	1	0	Low	30	1000	-36.34	PASS
Band13	5MHz	QPSK	23205	6	0	Low	12000	26500	-42.2	PASS
Band13	5MHz	QPSK	23205	6	0	Low	5000	12000	-48.04	PASS
Band13	5MHz	QPSK	23205	6	0	Low	1000	5000	-38.9	PASS
Band13	5MHz	QPSK	23205	1	0	Low	12000	26500	-42.31	PASS
Band13	5MHz	QPSK	23205	1	0	Low	1000	5000	-38.78	PASS
Band13	5MHz	QPSK	23205	1	0	Low	5000	12000	-48.1	PASS
Band13	5MHz	QPSK	23230	6	0	Low	12000	26500	-42.21	PASS
Band13	5MHz	QPSK	23230	1	0	Low	1000	5000	-38.85	PASS
Band13	5MHz	QPSK	23230	1	0	Low	5000	12000	-48.14	PASS
Band13	5MHz	QPSK	23230	1	0	Low	12000	26500	-42.34	PASS
Band13	5MHz	QPSK	23230	6	0	Low	1000	5000	-38.97	PASS
Band13	5MHz	QPSK	23230	1	0	Low	30	1000	-36.17	PASS
Band13	5MHz	QPSK	23230	6	0	Low	5000	12000	-48.17	PASS
Band13	5MHz	QPSK	23230	6	0	Low	30	1000	-35.25	PASS
Band13	5MHz	QPSK	23255	1	5	High	12000	26500	-42.15	PASS
Band13	5MHz	QPSK	23255	3	3	High	12000	26500	-42.04	PASS
Band13	5MHz	QPSK	23255	3	3	High	5000	12000	-48.22	PASS
Band13	5MHz	QPSK	23255	3	3	High	30	1000	-36.7	PASS
Band13	5MHz	QPSK	23255	1	5	High	1000	5000	-38.81	PASS
Band13	5MHz	QPSK	23255	1	5	High	5000	12000	-48.26	PASS
Band13	5MHz	QPSK	23255	1	5	High	30	1000	-36.51	PASS
Band13	5MHz	QPSK	23255	3	3	High	1000	5000	-38.84	PASS
Band13	5MHz	16QAM	23205	1	0	Low	1000	5000	-38.74	PASS
Band13	5MHz	16QAM	23205	1	0	Low	5000	12000	-48.24	PASS
Band13	5MHz	16QAM	23205	1	0	Low	12000	26500	-42.01	PASS
Band13	5MHz	16QAM	23205	6	0	Low	12000	26500	-42.22	PASS
Band13	5MHz	16QAM	23205	6	0	Low	5000	12000	-47.92	PASS
Band13	5MHz	16QAM	23205	6	0	Low	30	1000	-36.46	PASS
Band13	5MHz	16QAM	23205	1	0	Low	30	1000	-36.43	PASS
Band13	5MHz	16QAM	23205	6	0	Low	1000	5000	-38.88	PASS
Band13	5MHz	16QAM	23230	6	0	Low	12000	26500	-42.2	PASS
Band13	5MHz	16QAM	23230	1	0	Low	1000	5000	-38.75	PASS
Band13	5MHz	16QAM	23230	1	0	Low	12000	26500	-42.23	PASS
Band13	5MHz	16QAM	23230	6	0	Low	30	1000	-36.67	PASS
Band13	5MHz	16QAM	23230	6	0	Low	1000	5000	-38.84	PASS
Band13	5MHz	16QAM	23230	6	0	Low	5000	12000	-47.95	PASS
Band13	5MHz	16QAM	23230	1	0	Low	30	1000	-36.31	PASS
Band13	5MHz	16QAM	23230	1	0	Low	5000	12000	-48.07	PASS
Band13	5MHz	16QAM	23255	3	3	High	5000	12000	-48.14	PASS
Band13	5MHz	16QAM	23255	3	3	High	1000	5000	-38.93	PASS
Band13	5MHz	16QAM	23255	3	3	High	30	1000	-36.33	PASS
Band13	5MHz	16QAM	23255	1	5	High	12000	26500	-42.1	PASS
Band13	5MHz	16QAM	23255	1	5	High	5000	12000	-47.73	PASS
Band13	5MHz	16QAM	23255	1	5	High	30	1000	-36.65	PASS
Band13	5MHz	16QAM	23255	3	3	High	12000	26500	-42.21	PASS
Band13	5MHz	16QAM	23255	1	5	High	1000	5000	-38.87	PASS

Test Graphs

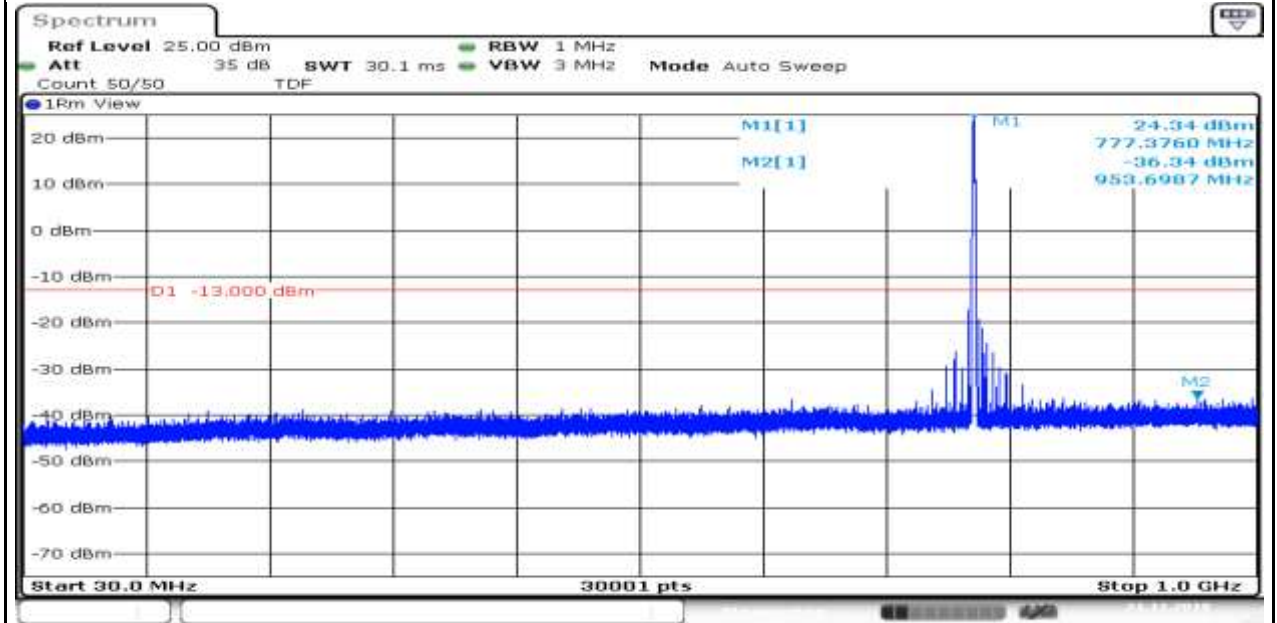
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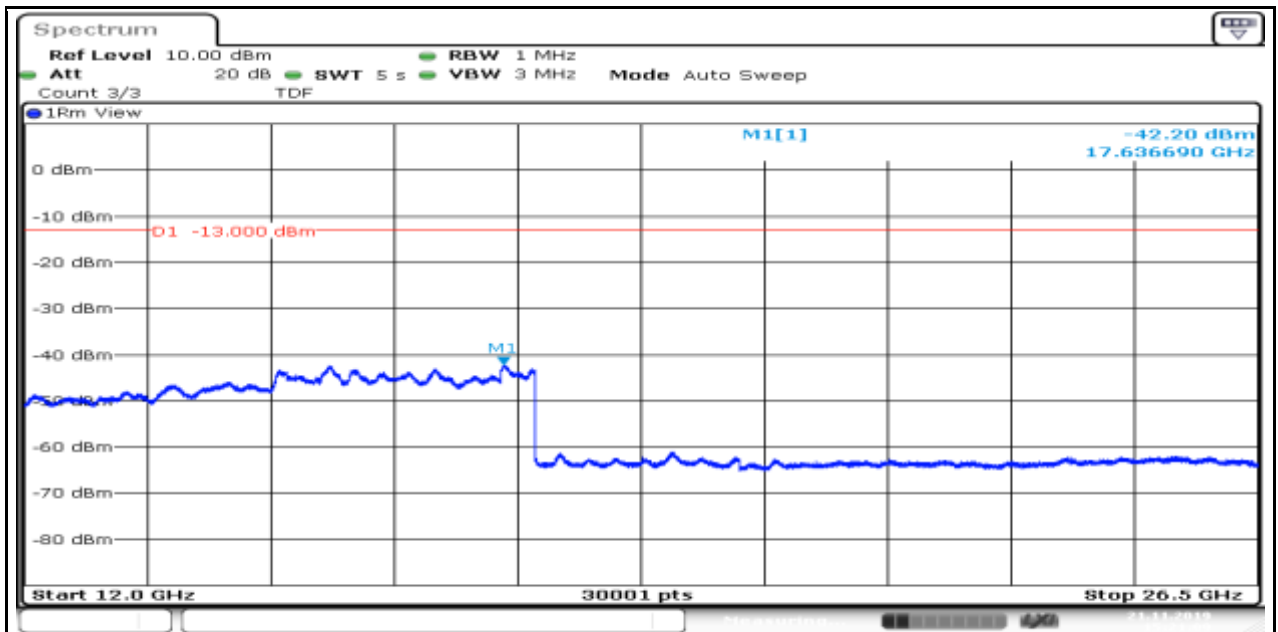
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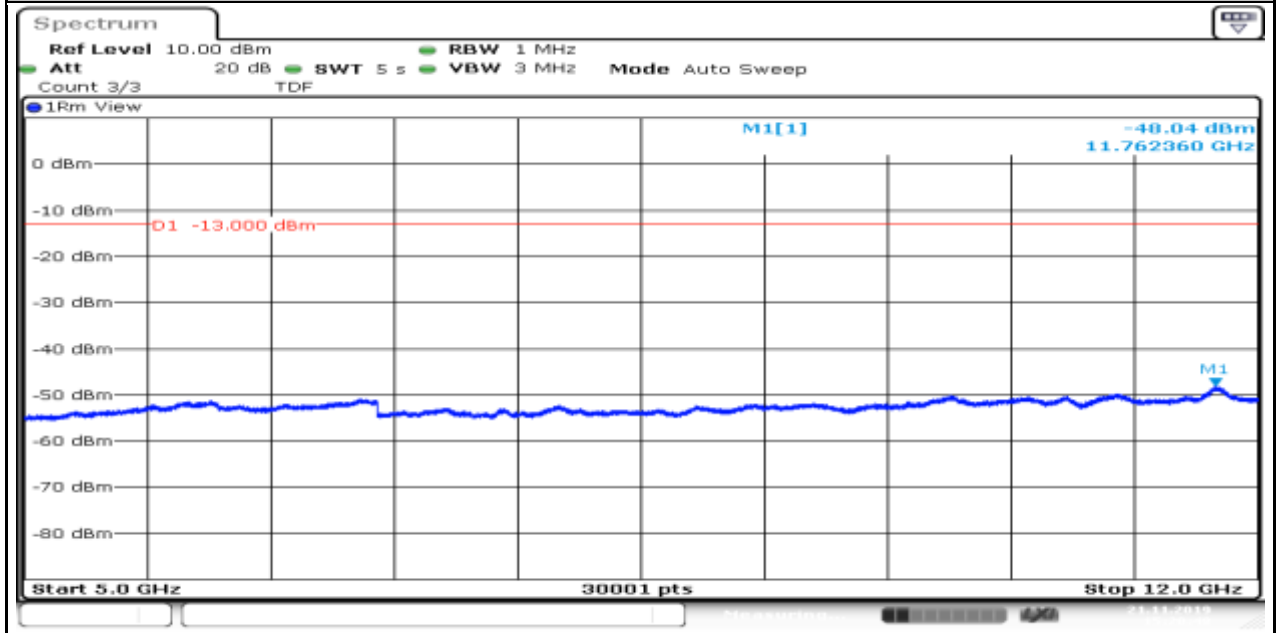
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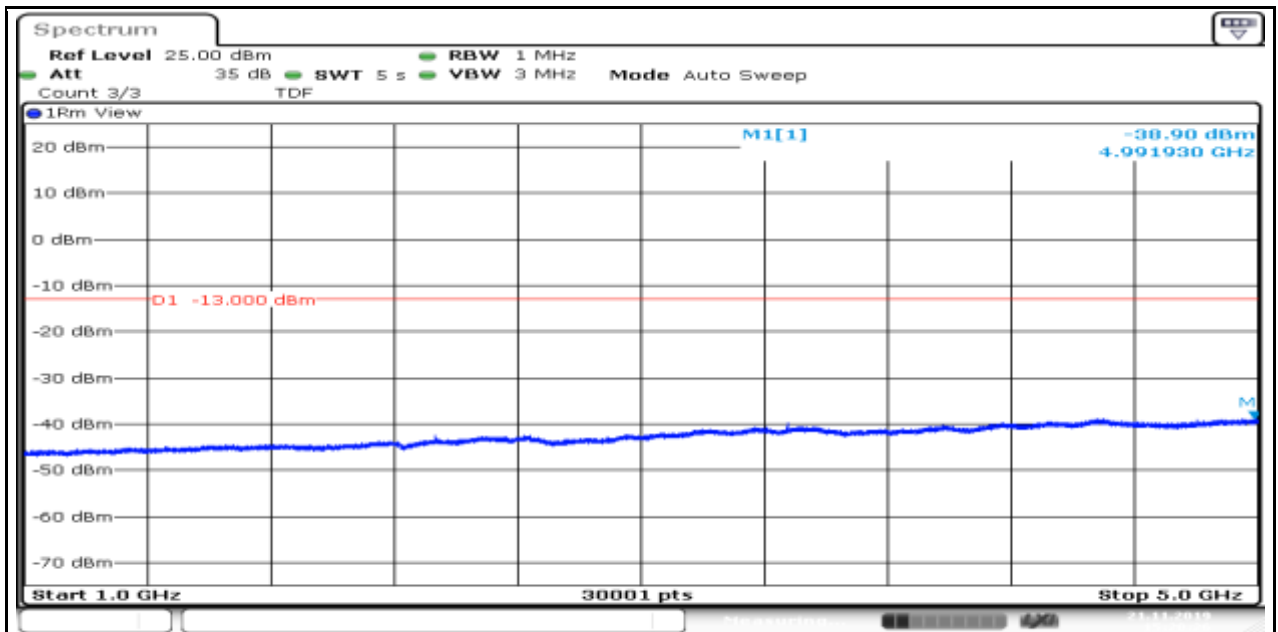


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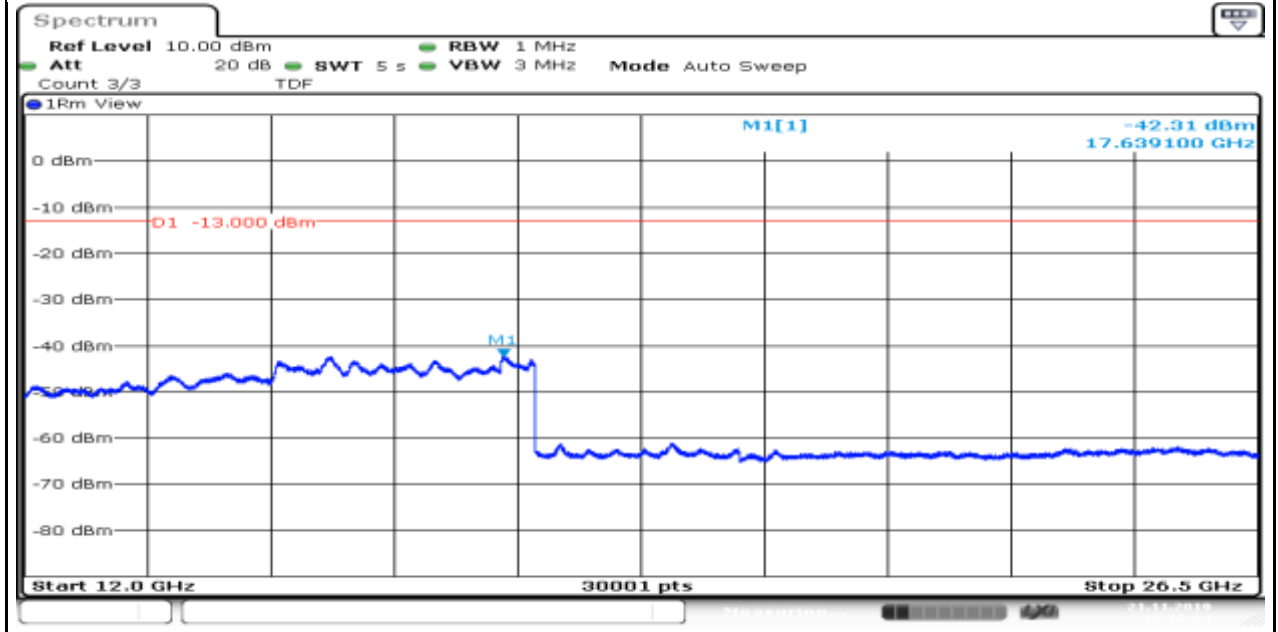


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Produkte
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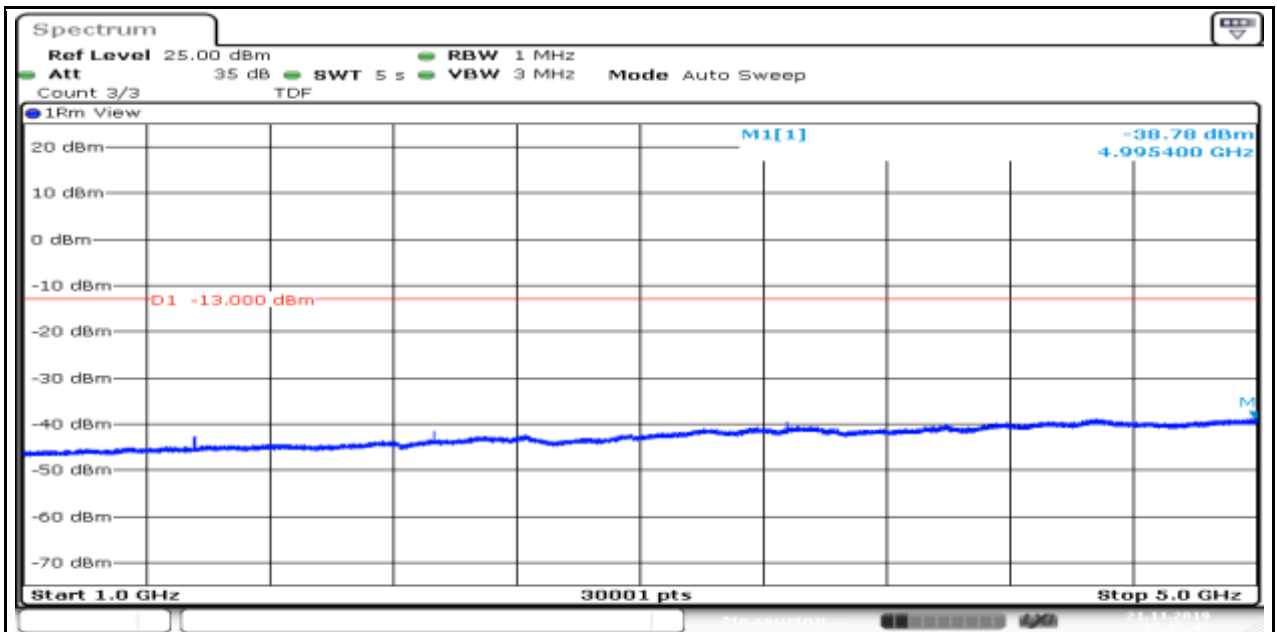


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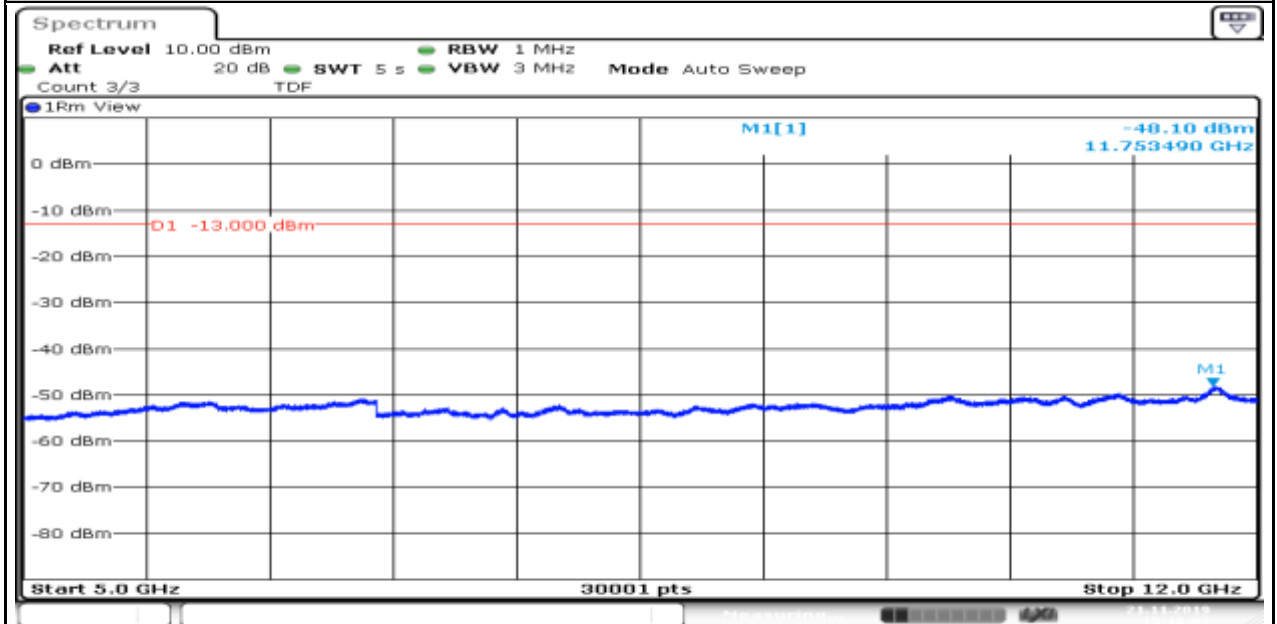
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Produkte
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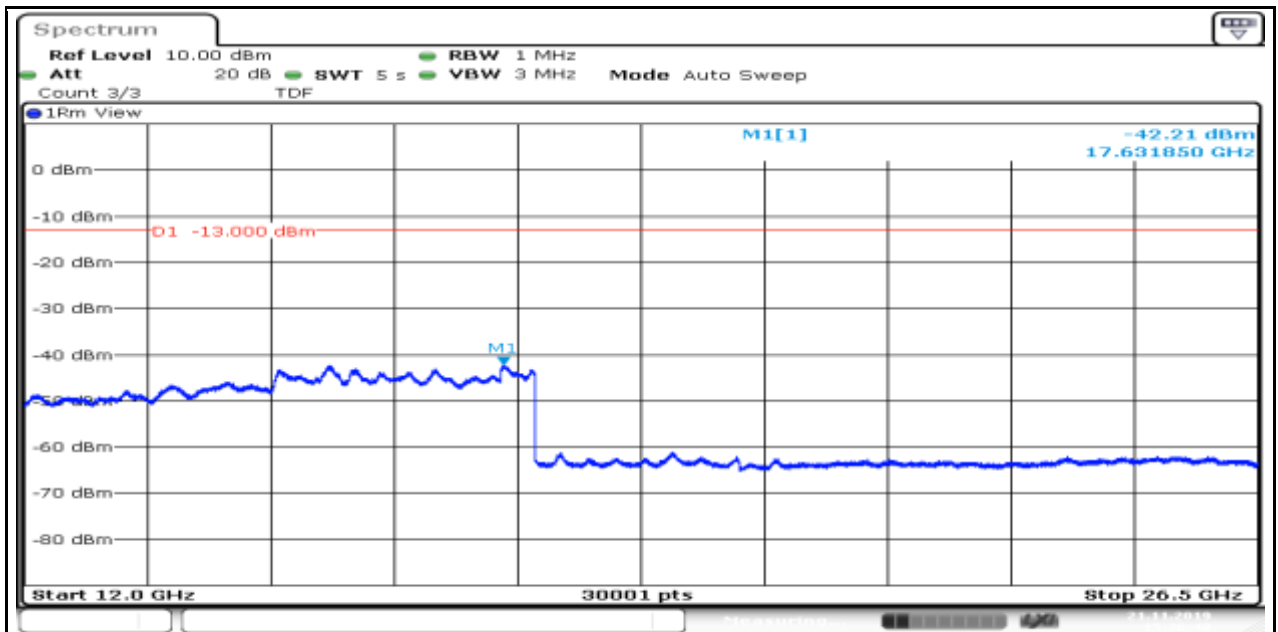
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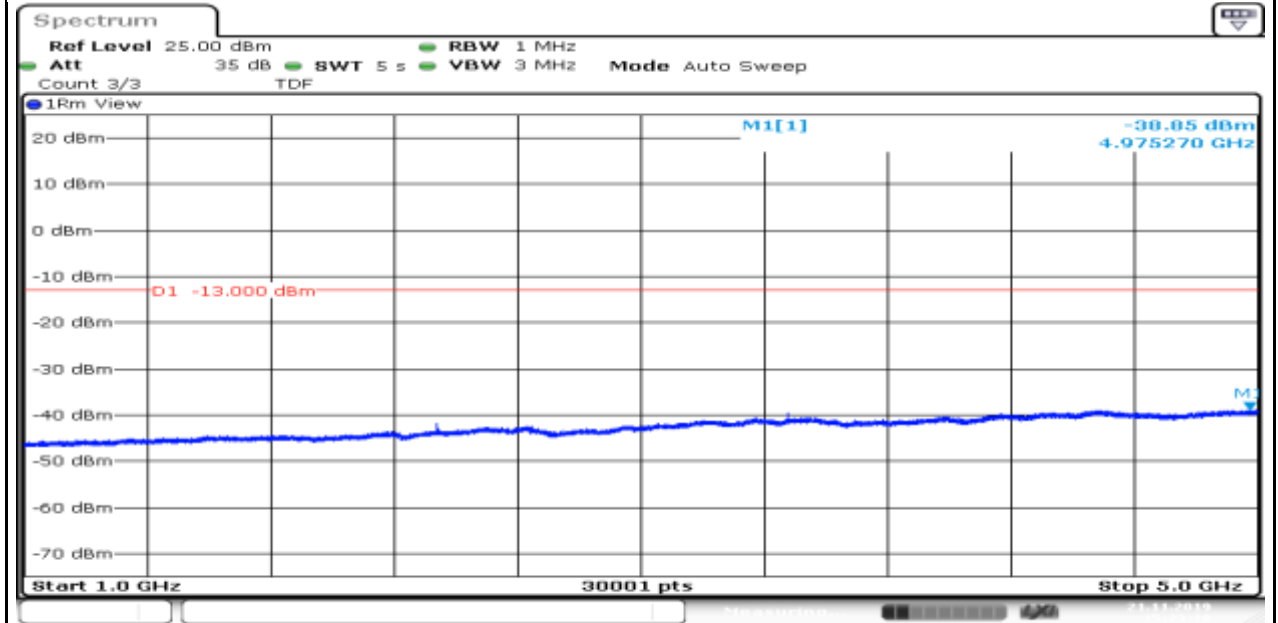
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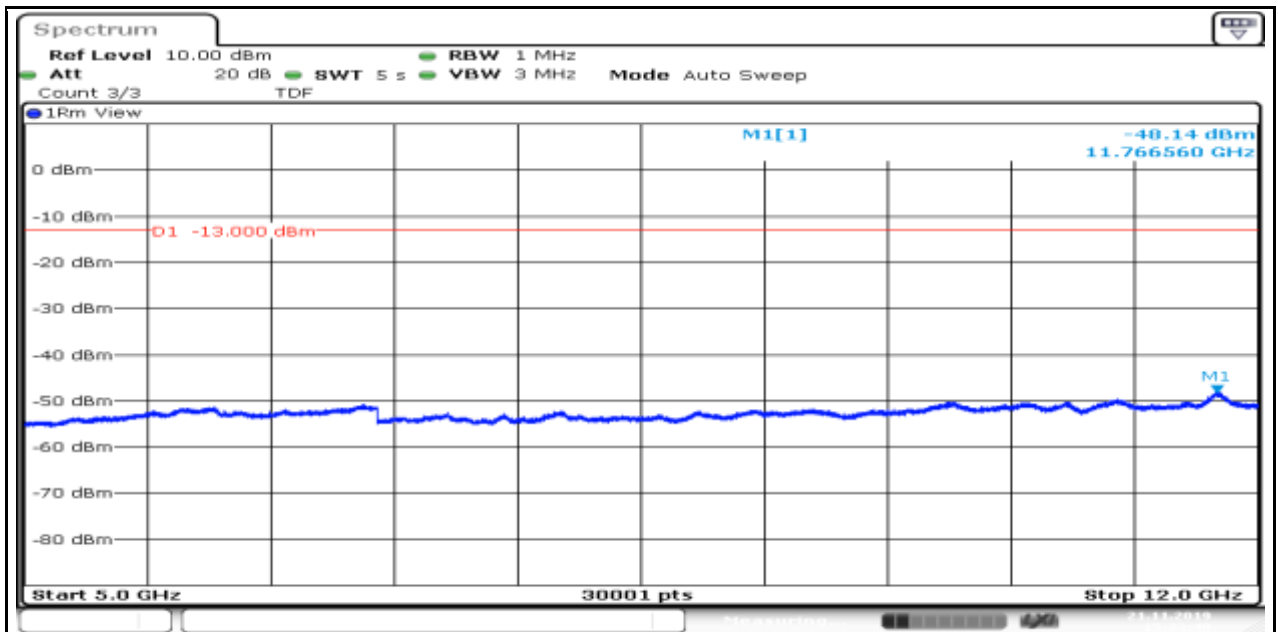


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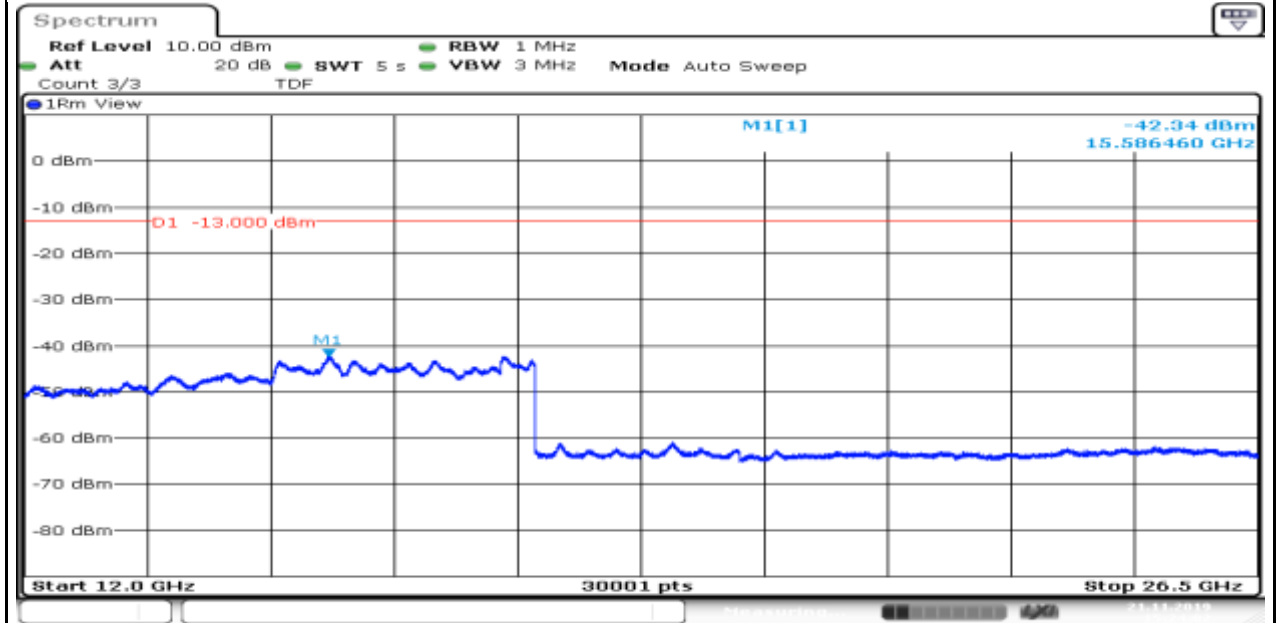
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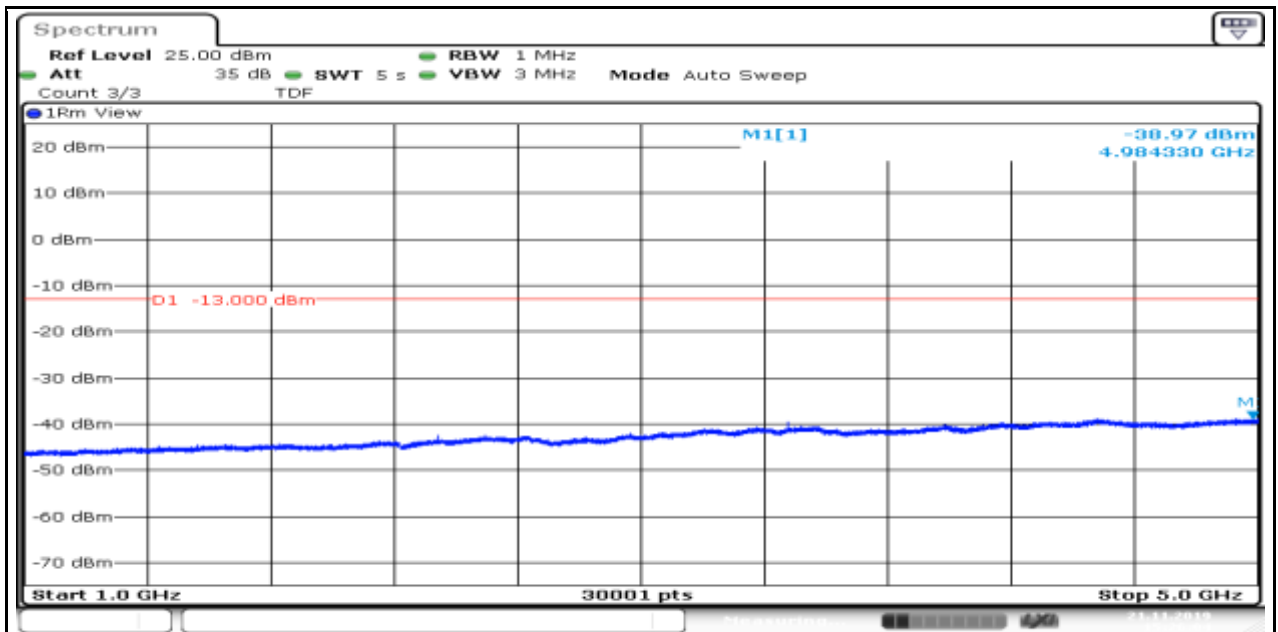
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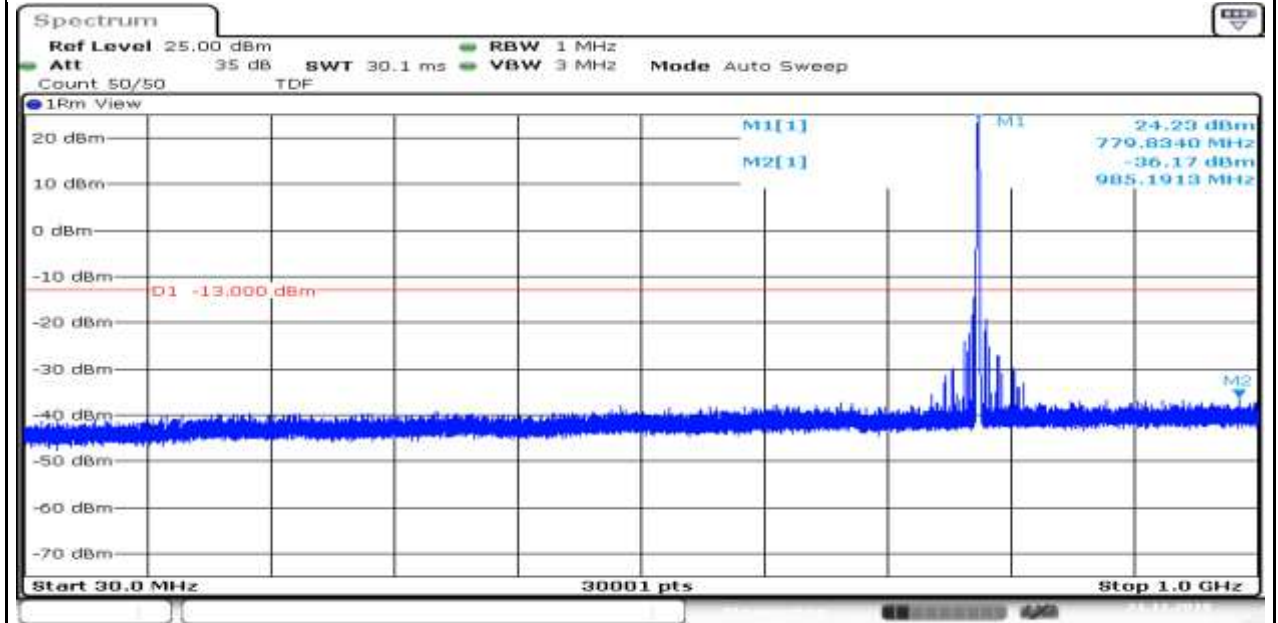
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Produkte
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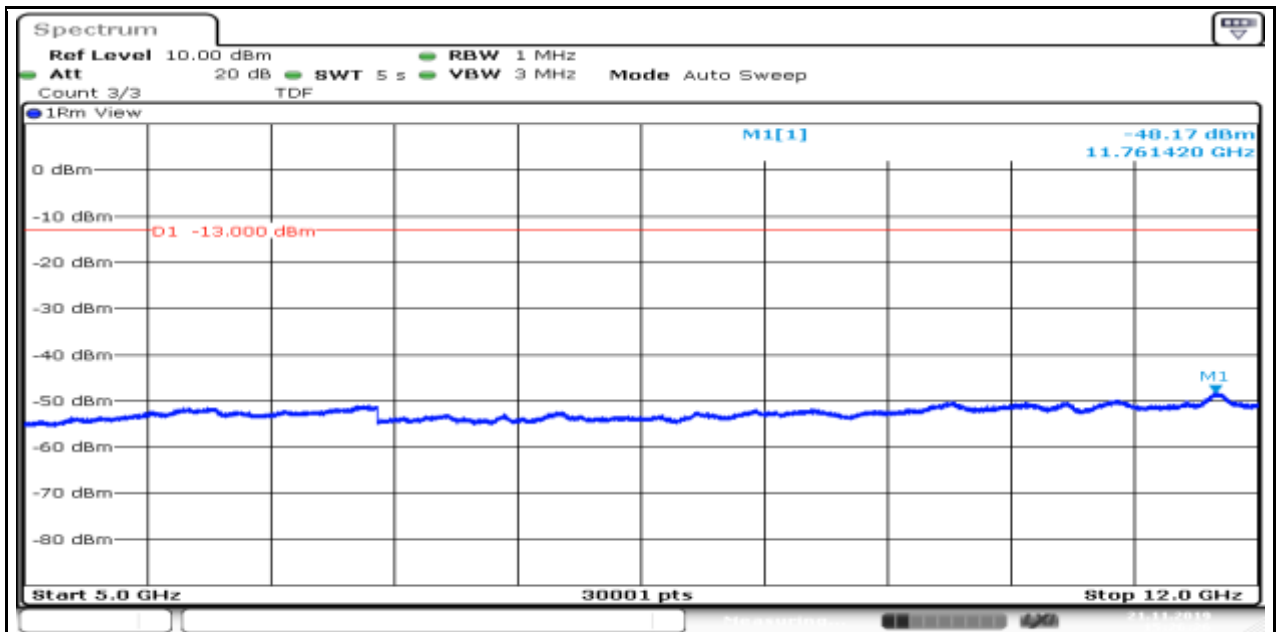
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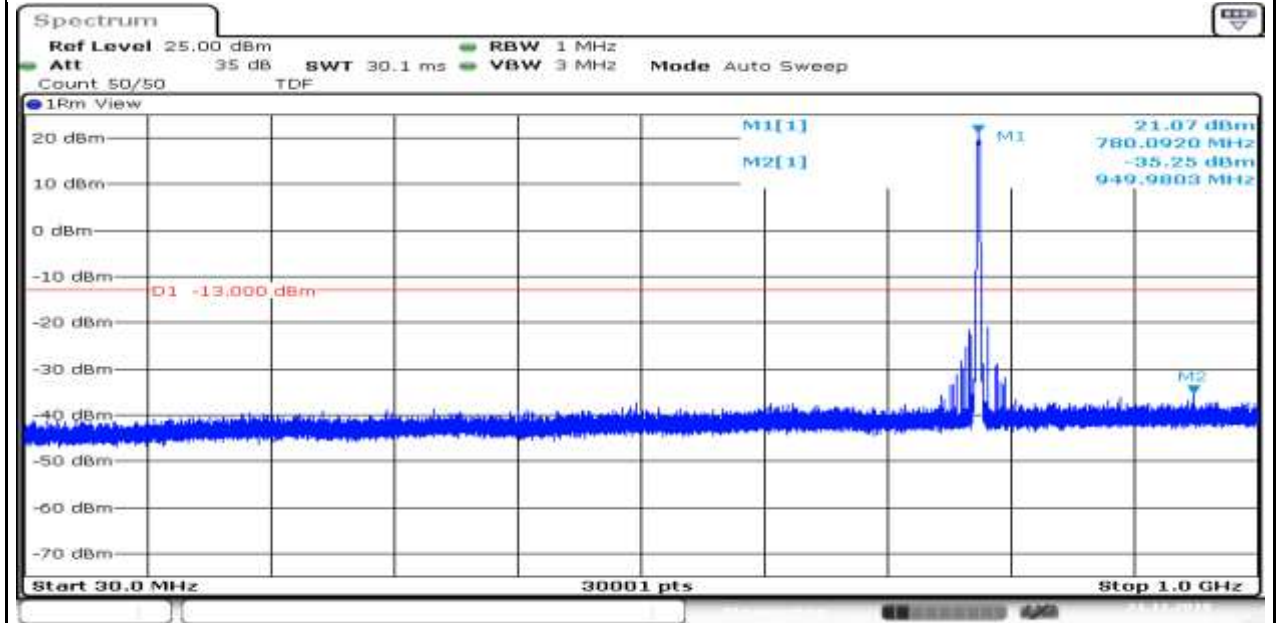
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Produkte
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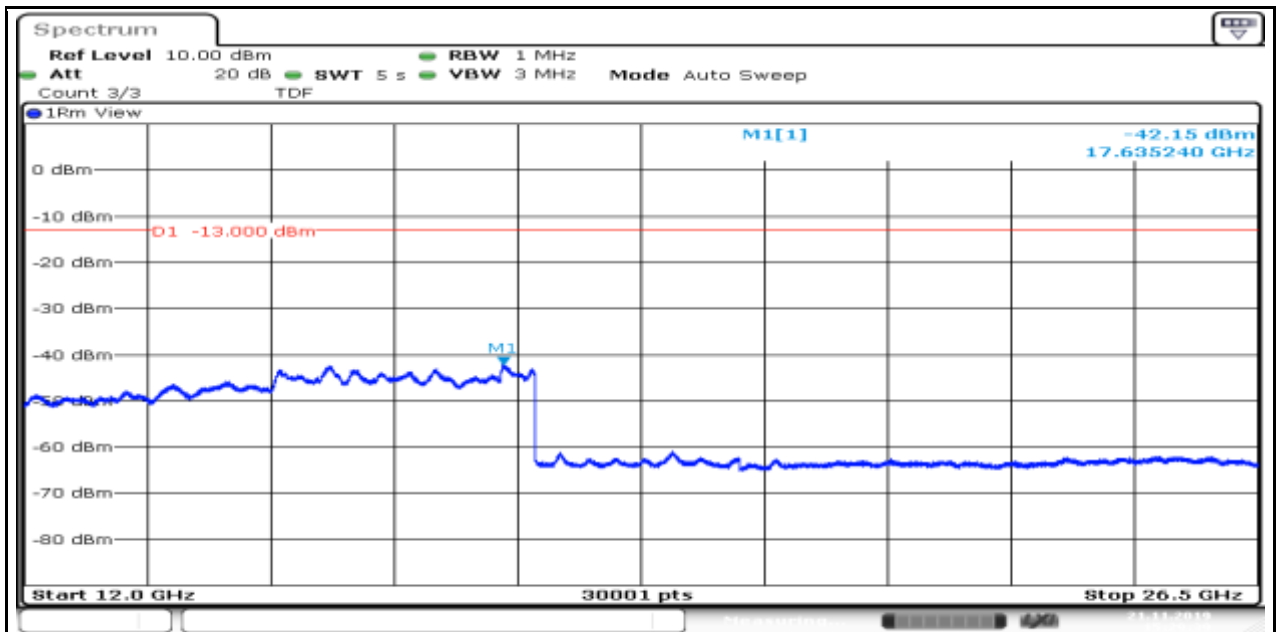
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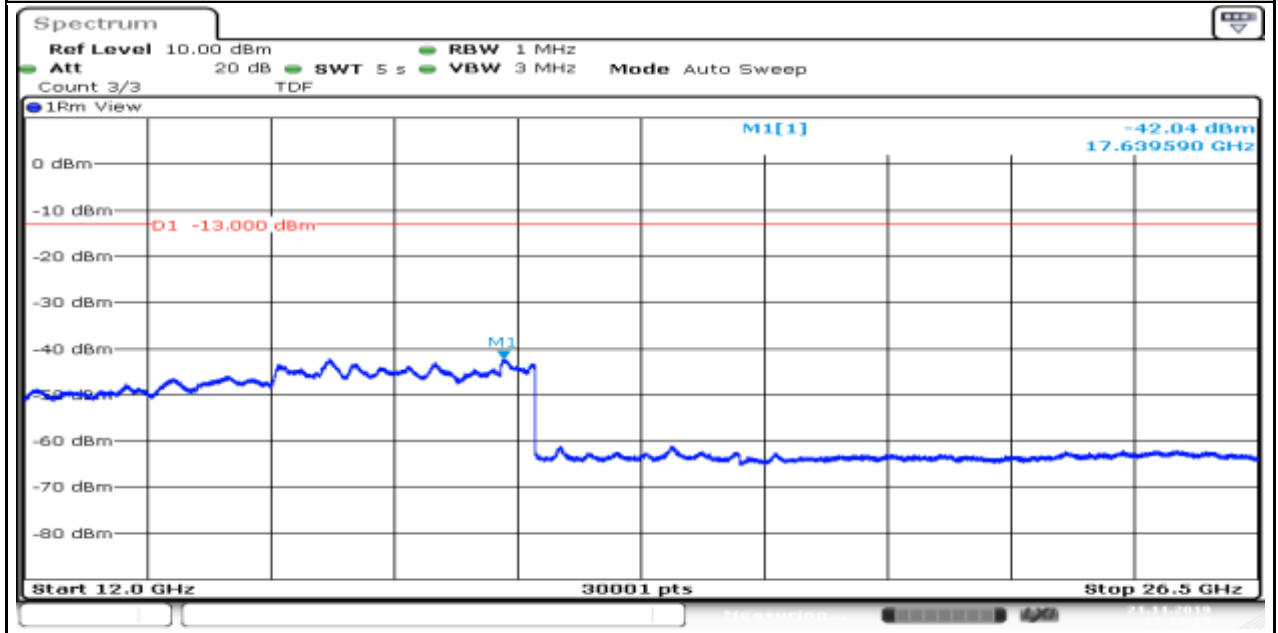
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Produkte
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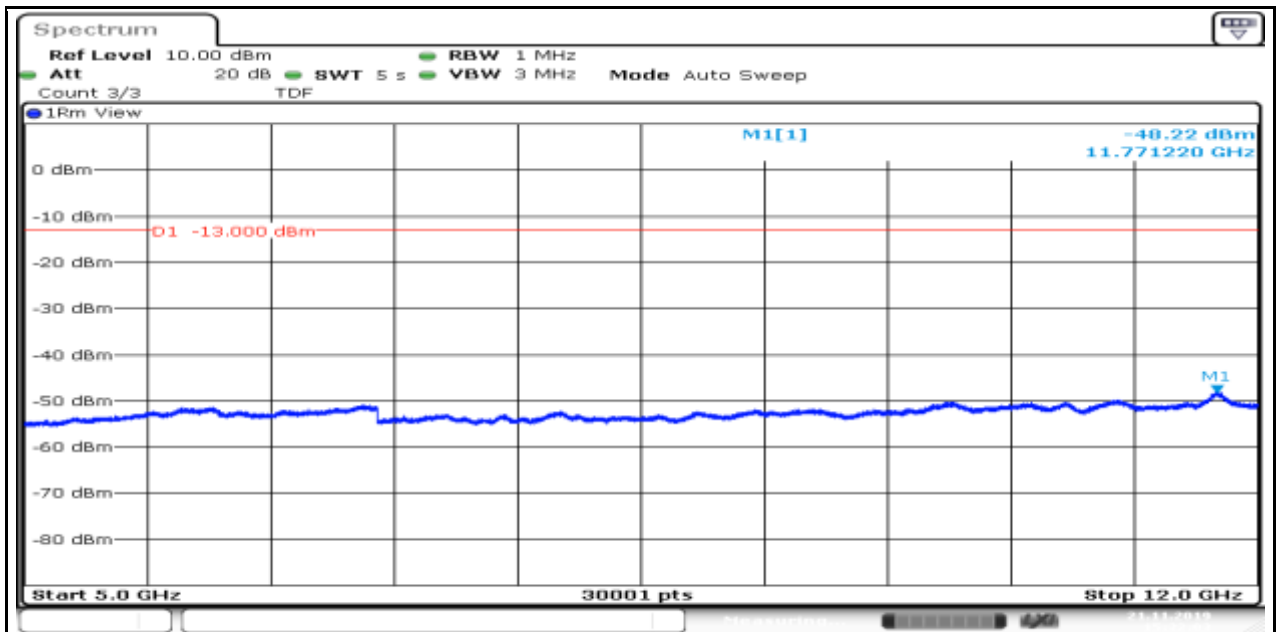


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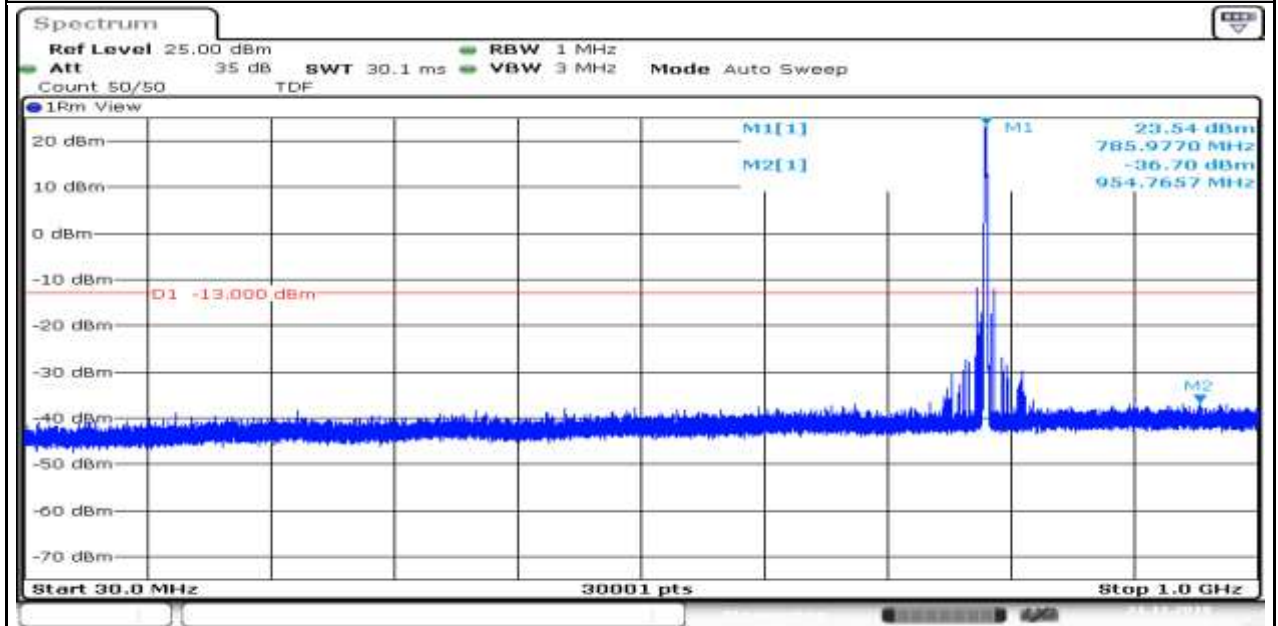
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Produkte
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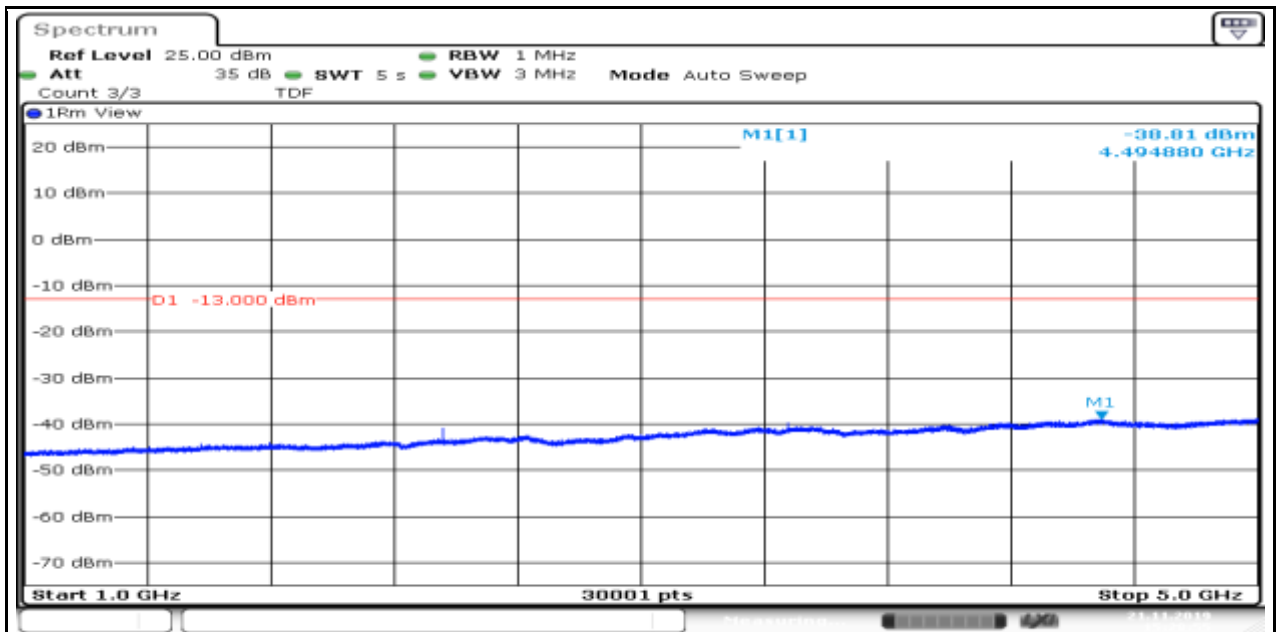
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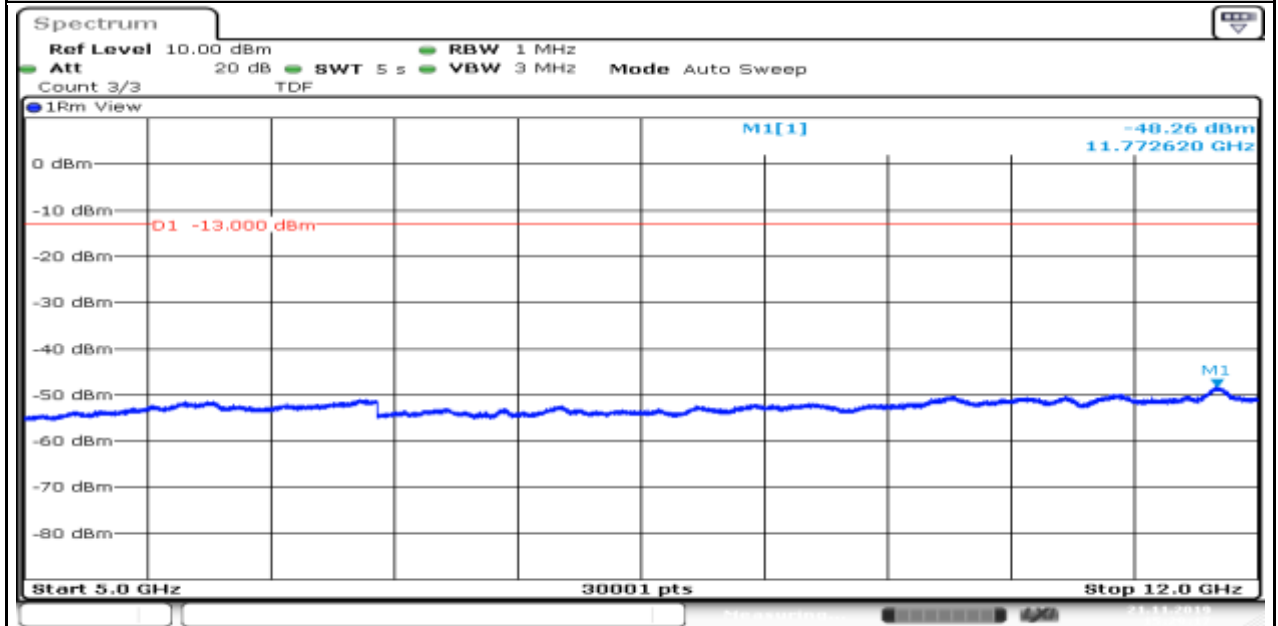
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Produkte
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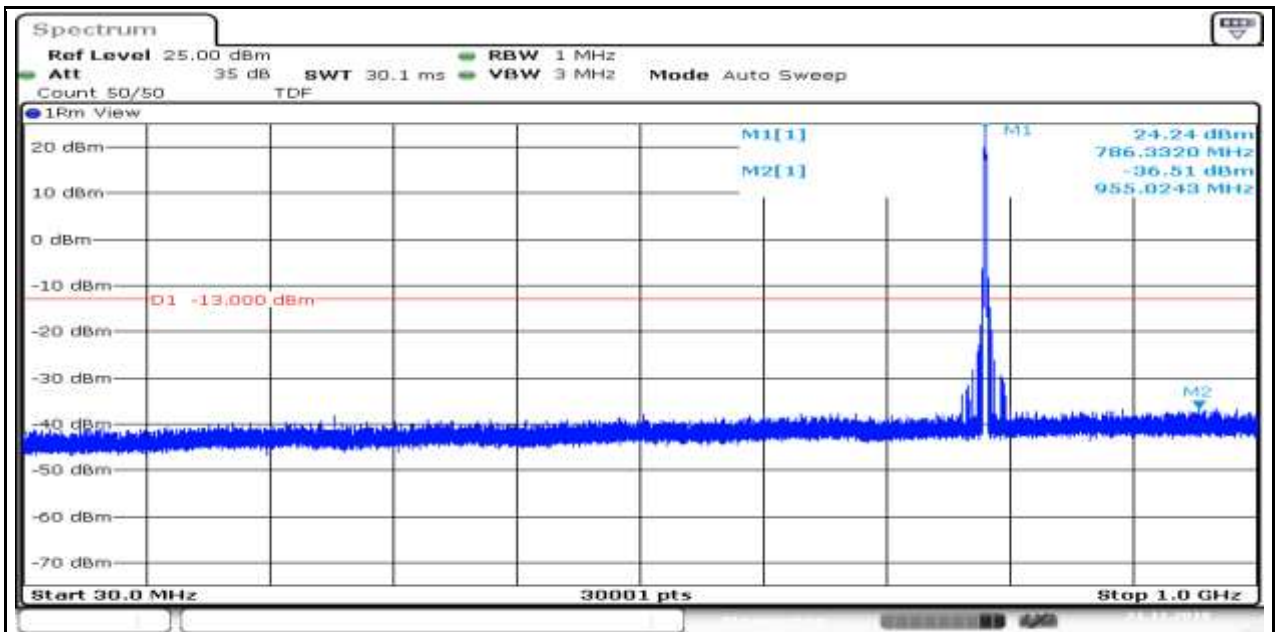
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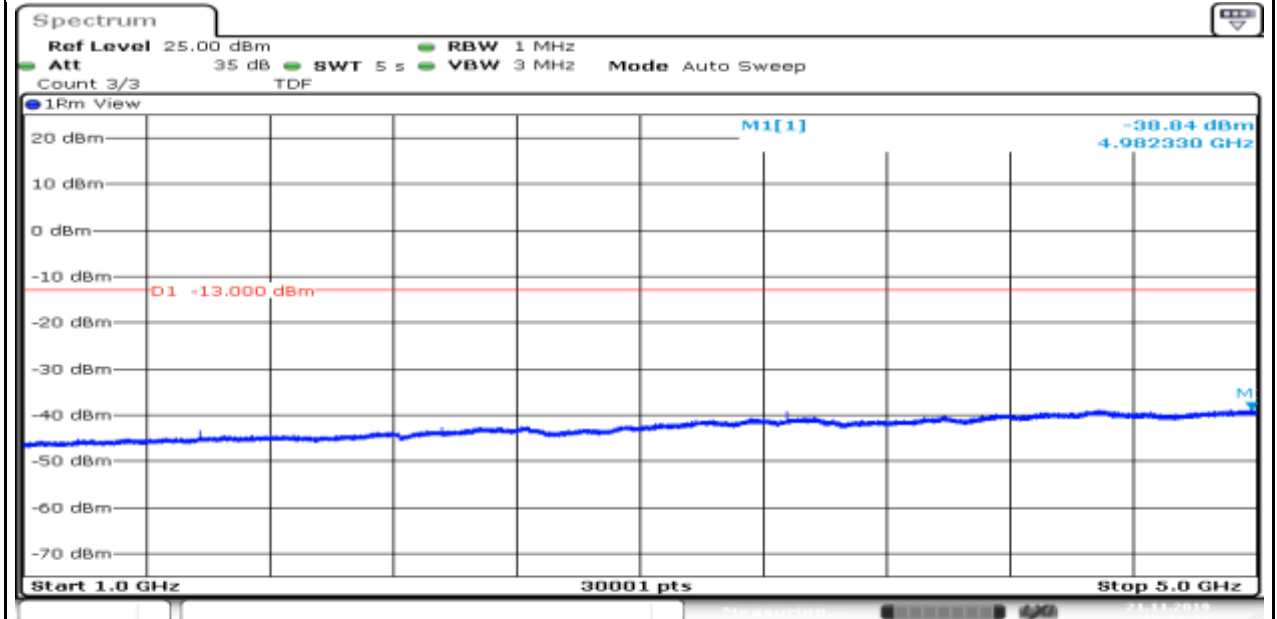
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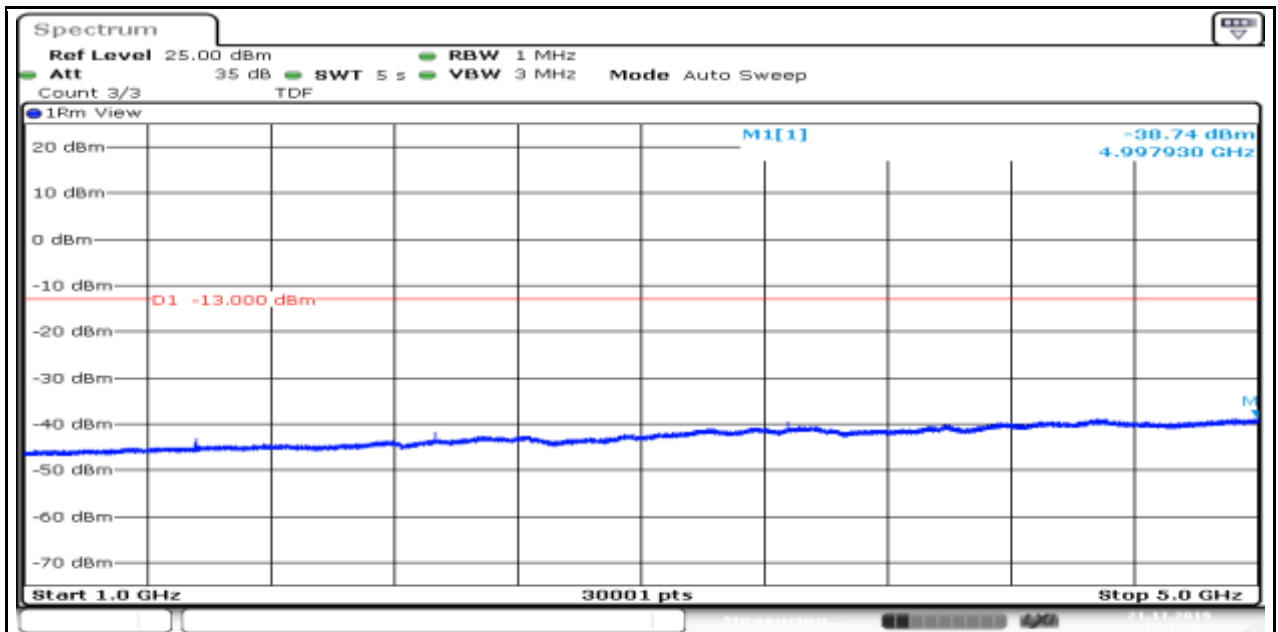
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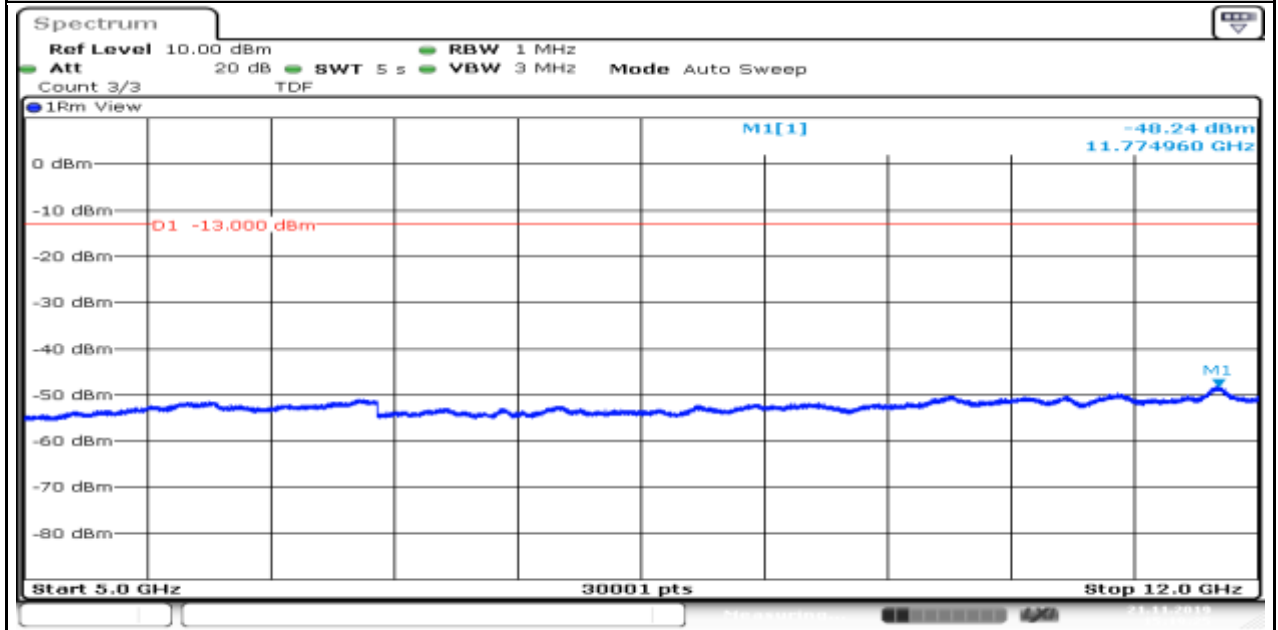
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Band13_5MHz_16QAM_23205_1_0_Low_1000_5000_-38.74_PASS_

Produkte
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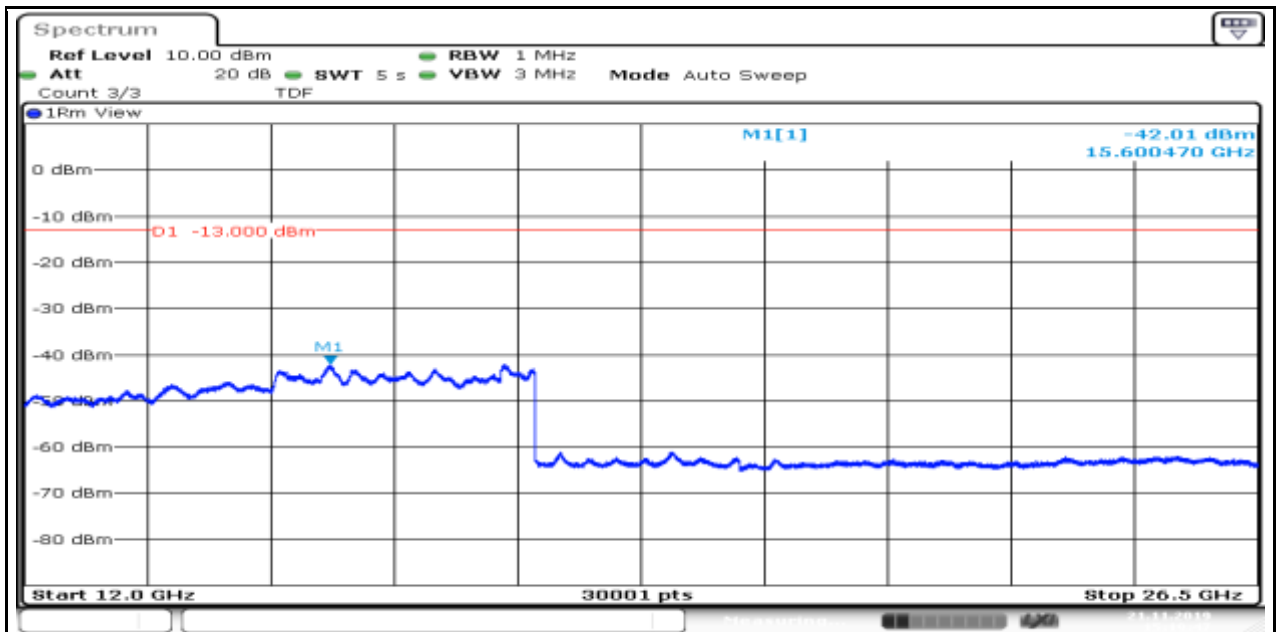


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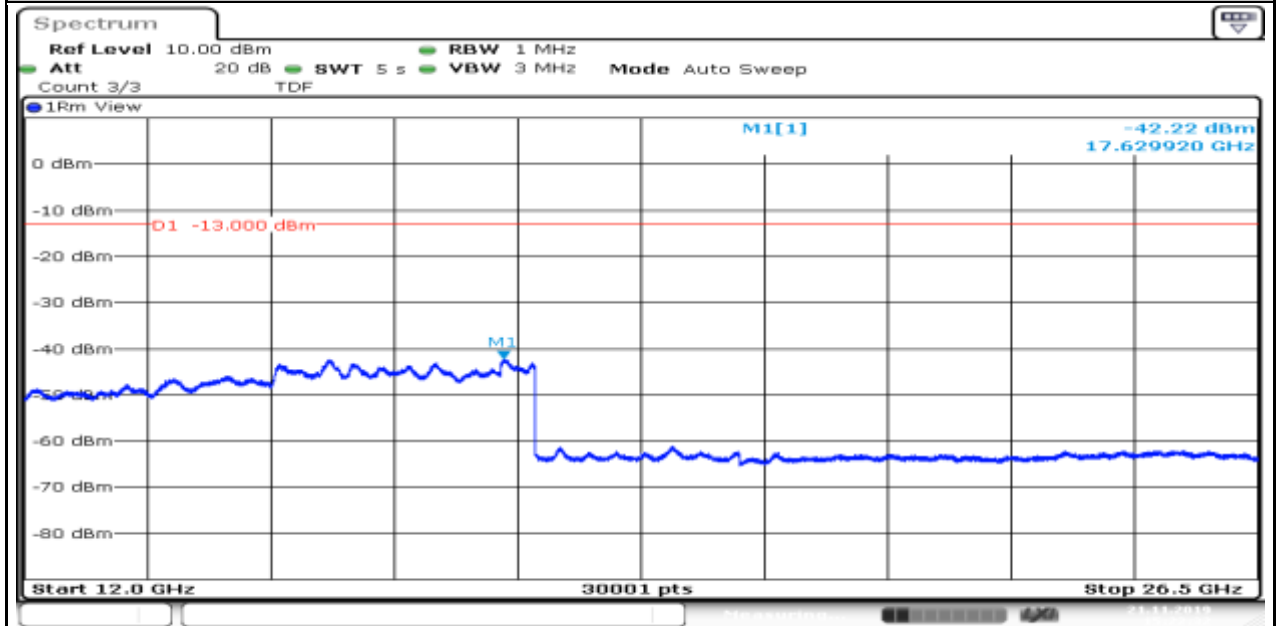
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Date: 21.NOV.2019 15:19:47

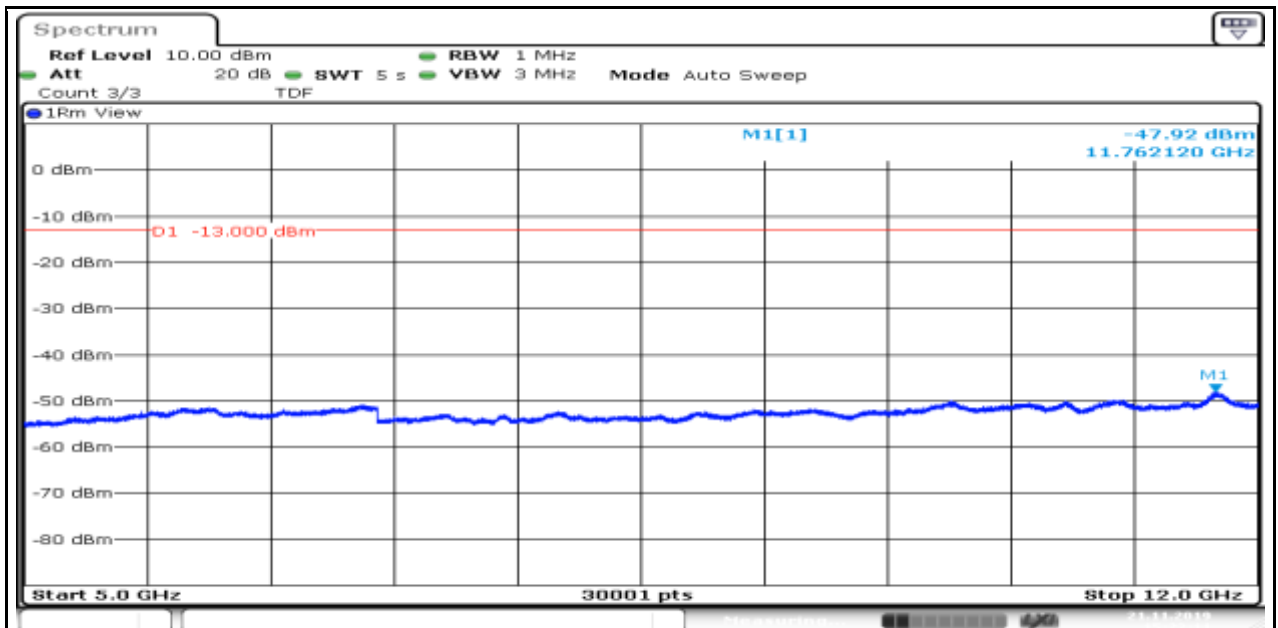
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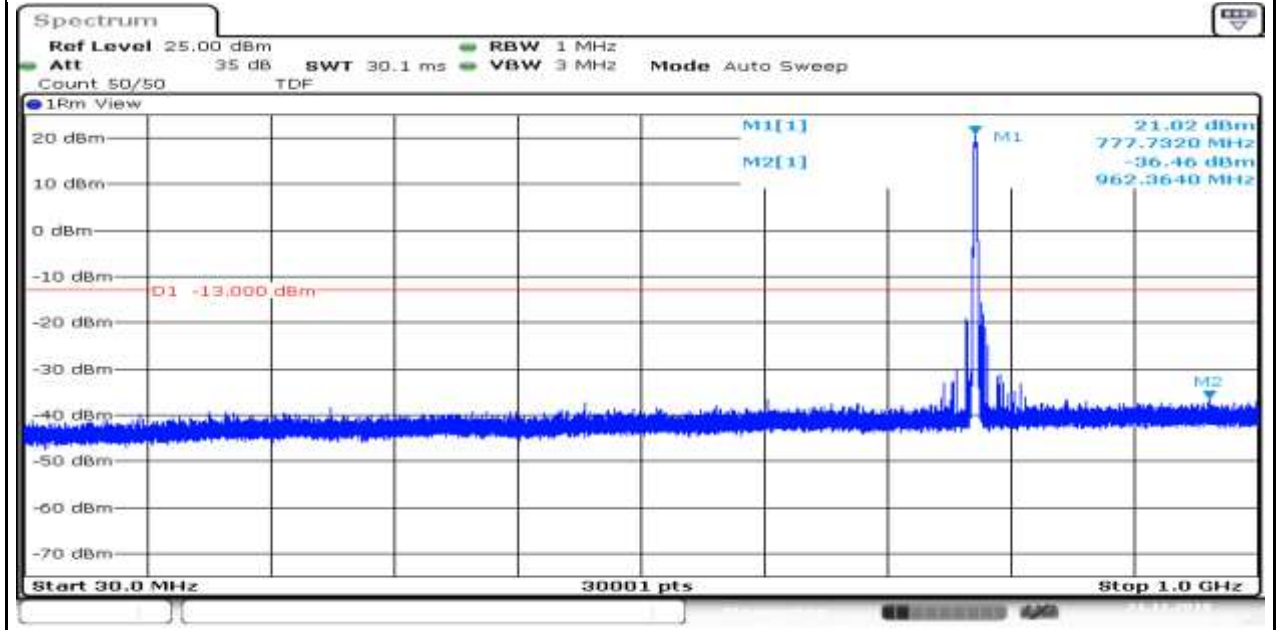
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Produkte
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Date: 21.NOV.2019 15:22:11

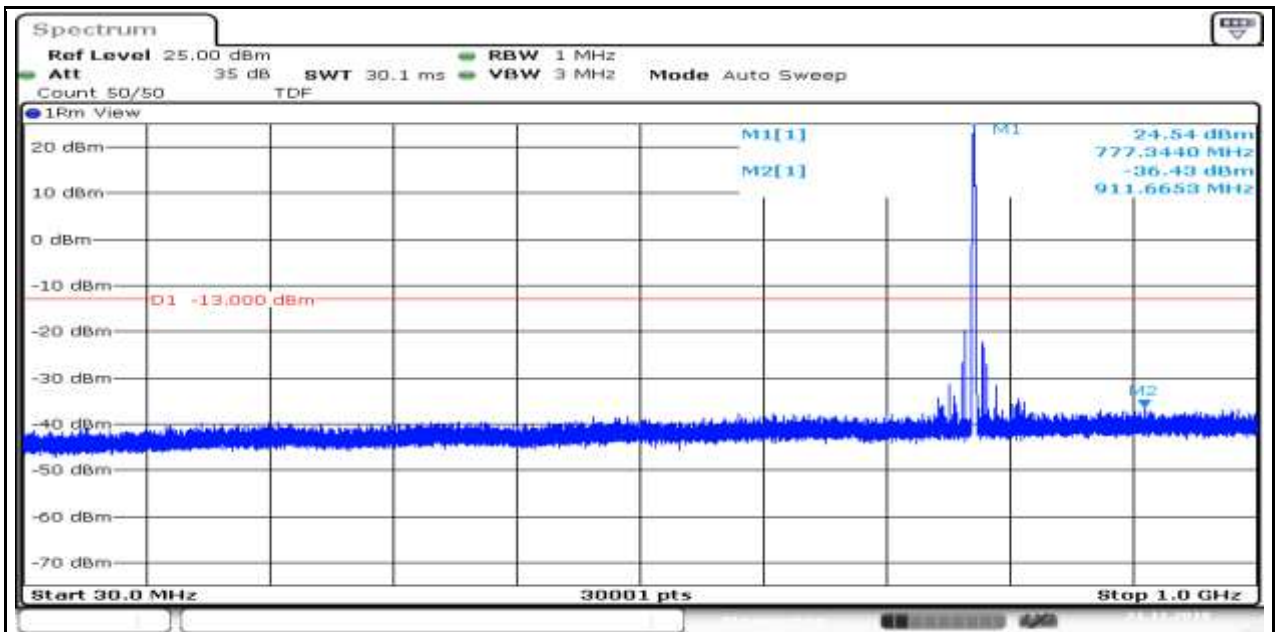
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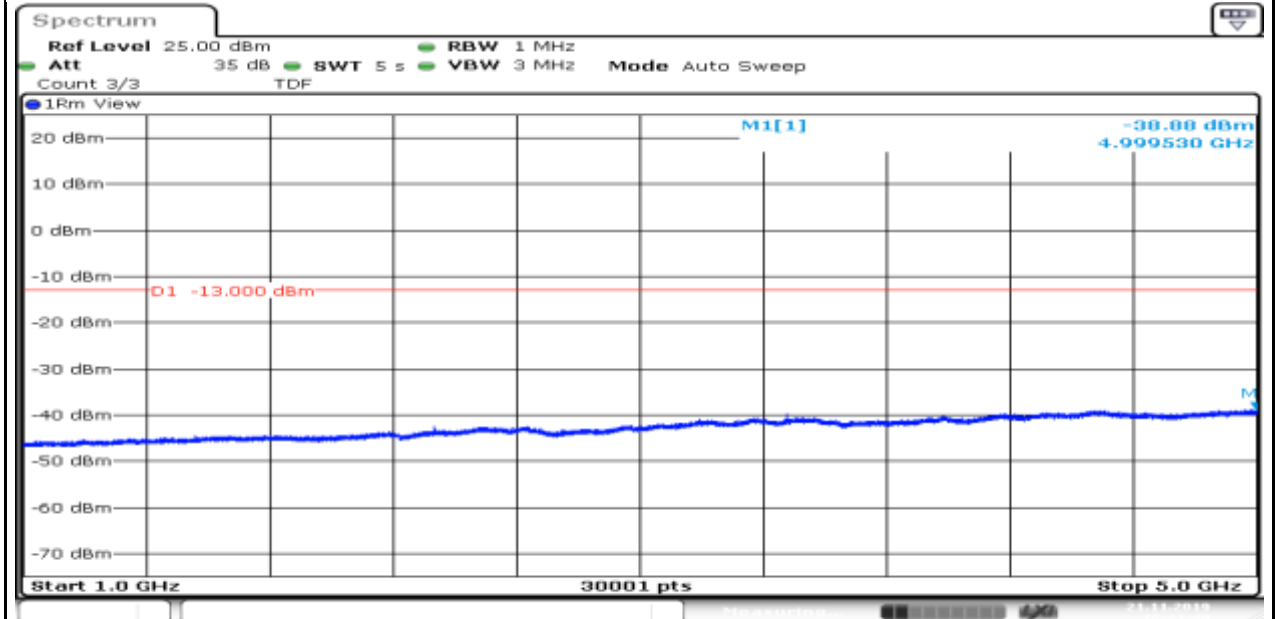
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Produkte
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Date: 21.NOV.2019 15:18:42

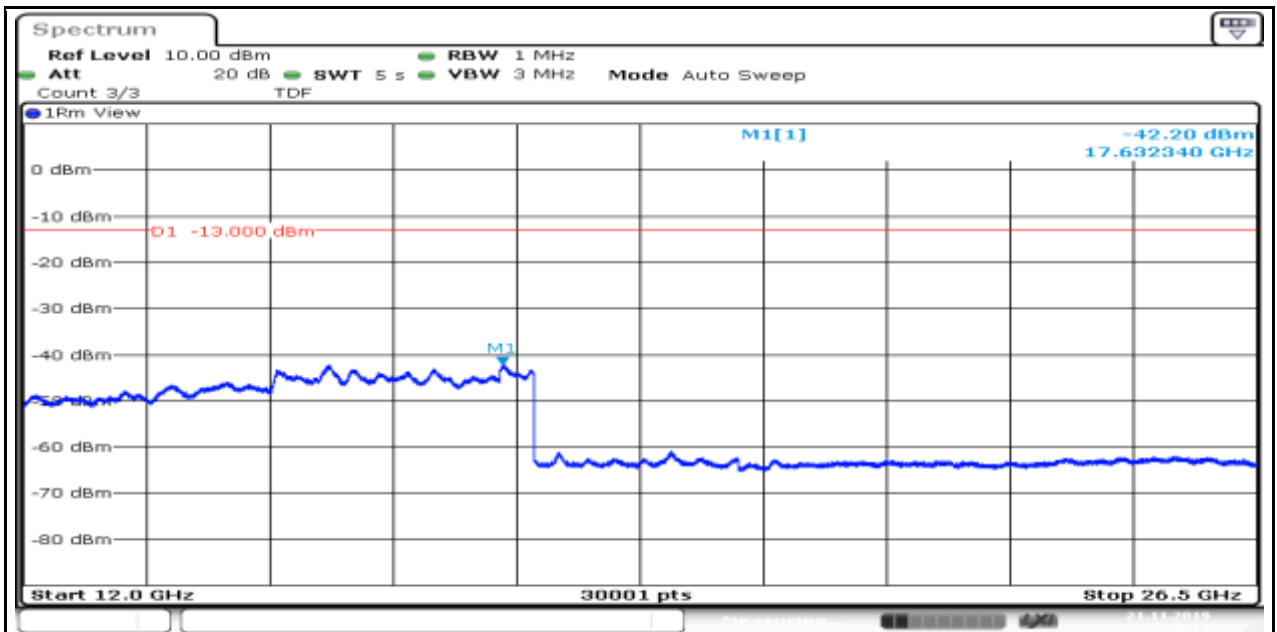
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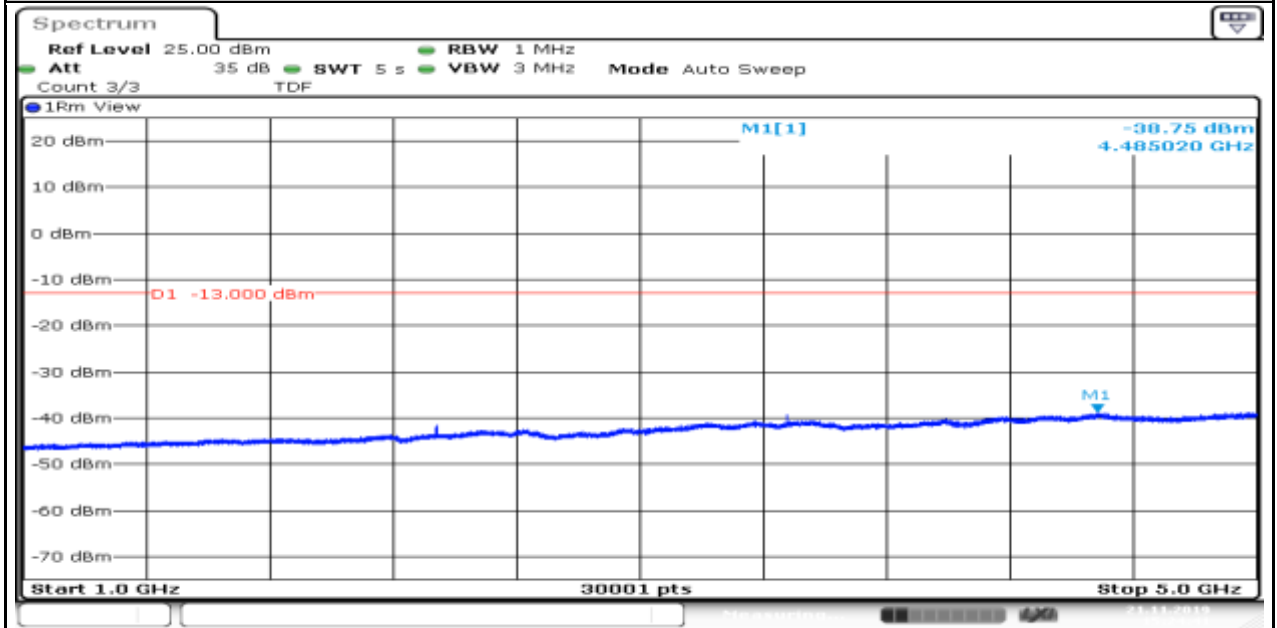
Date: 21.NOV.2019 15:21:49

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Produkte
Products

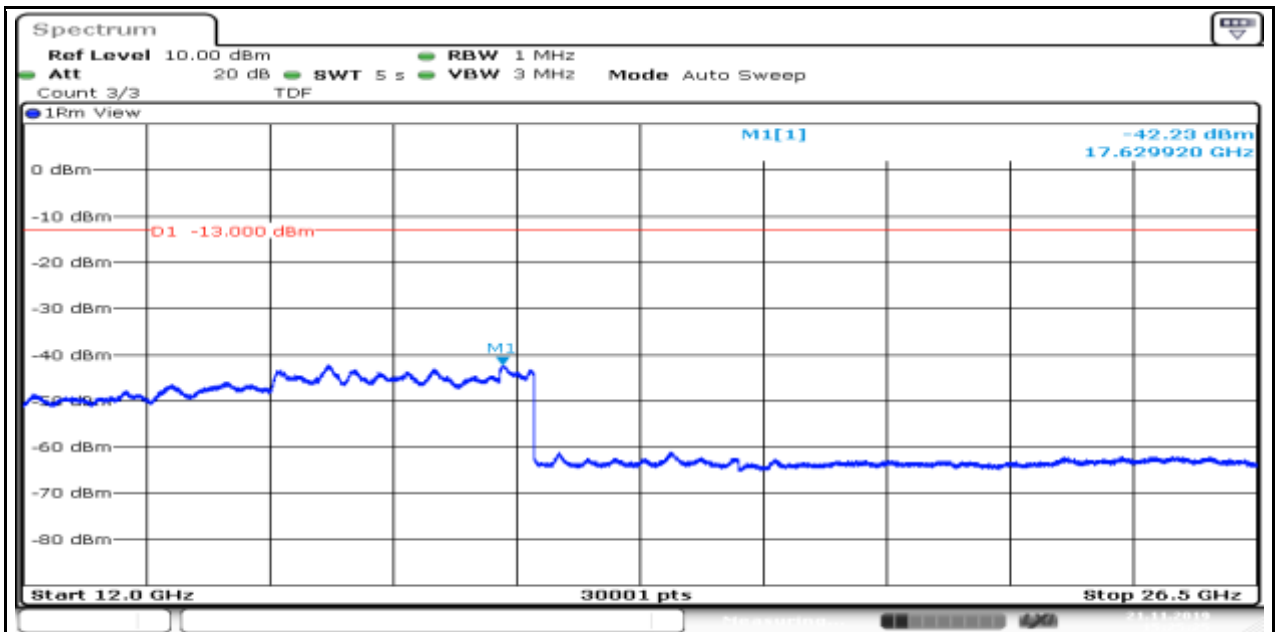


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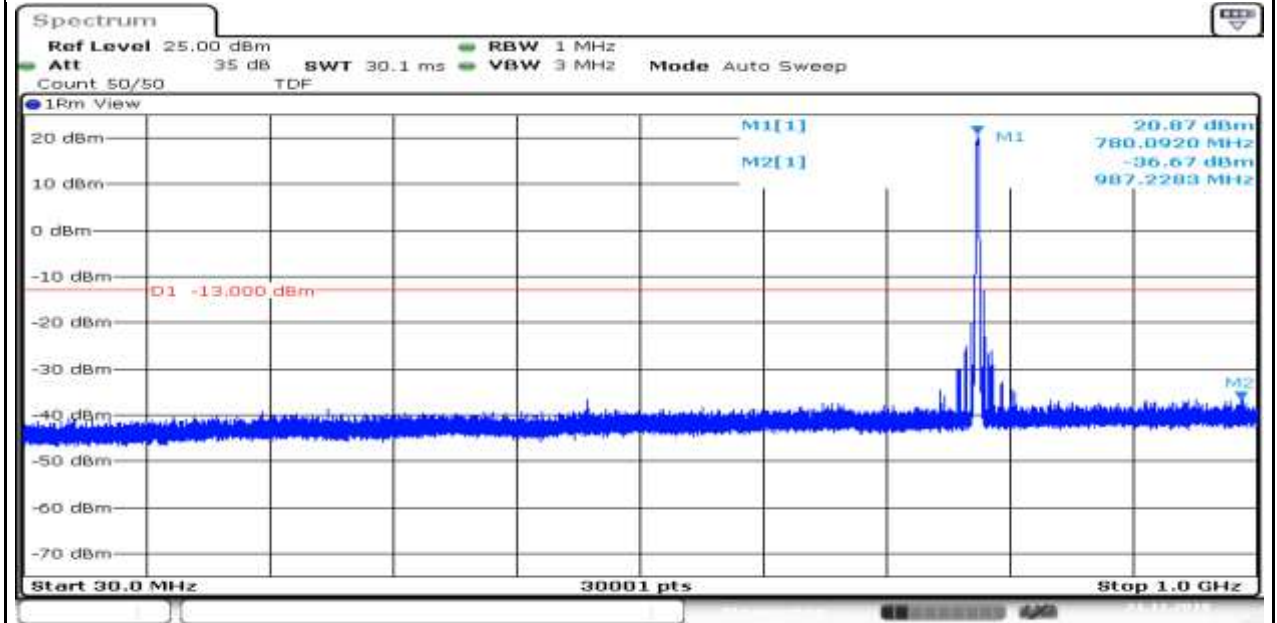
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Produkte
Products



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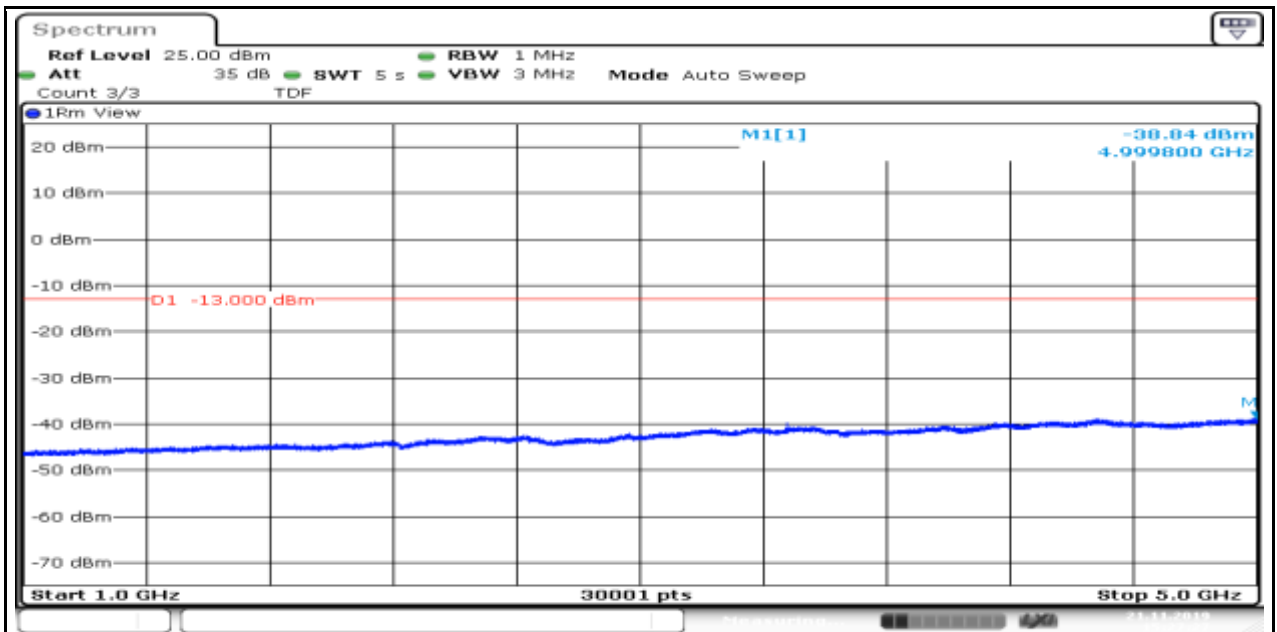
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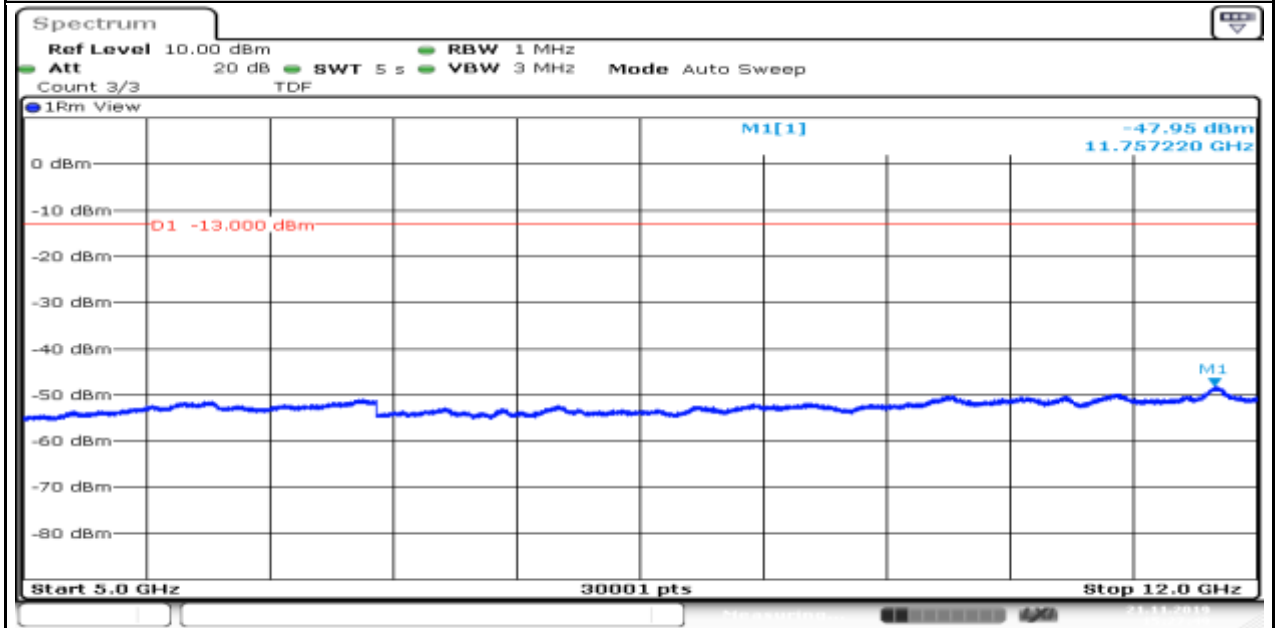
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Produkte
Products

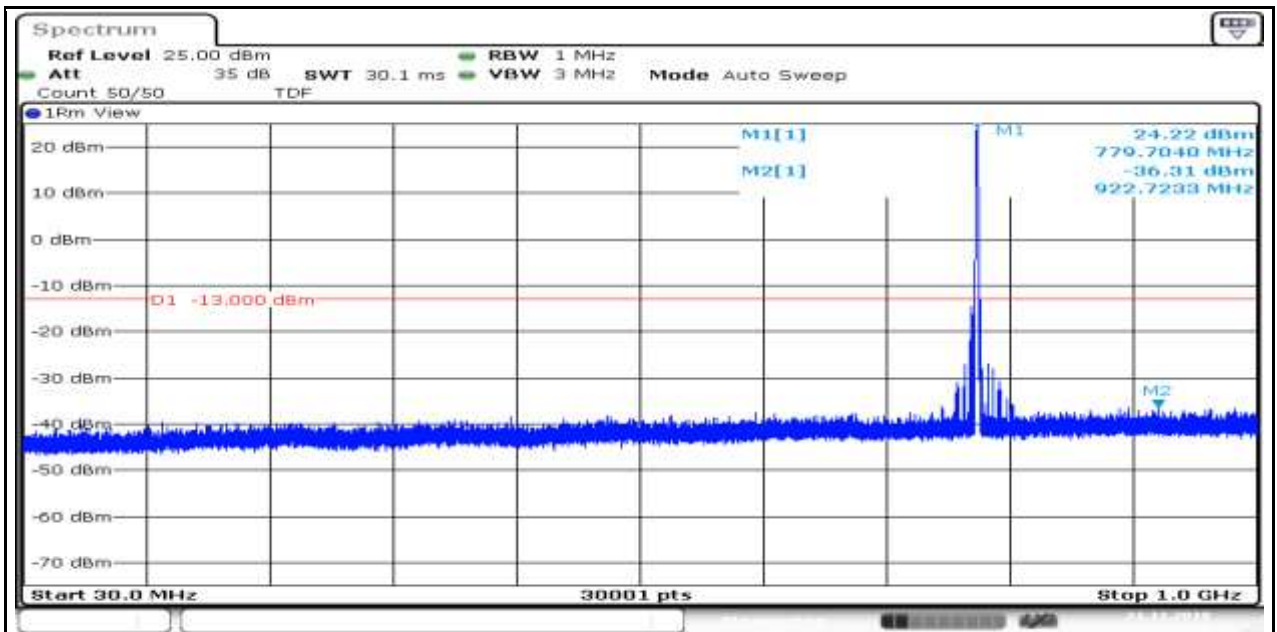


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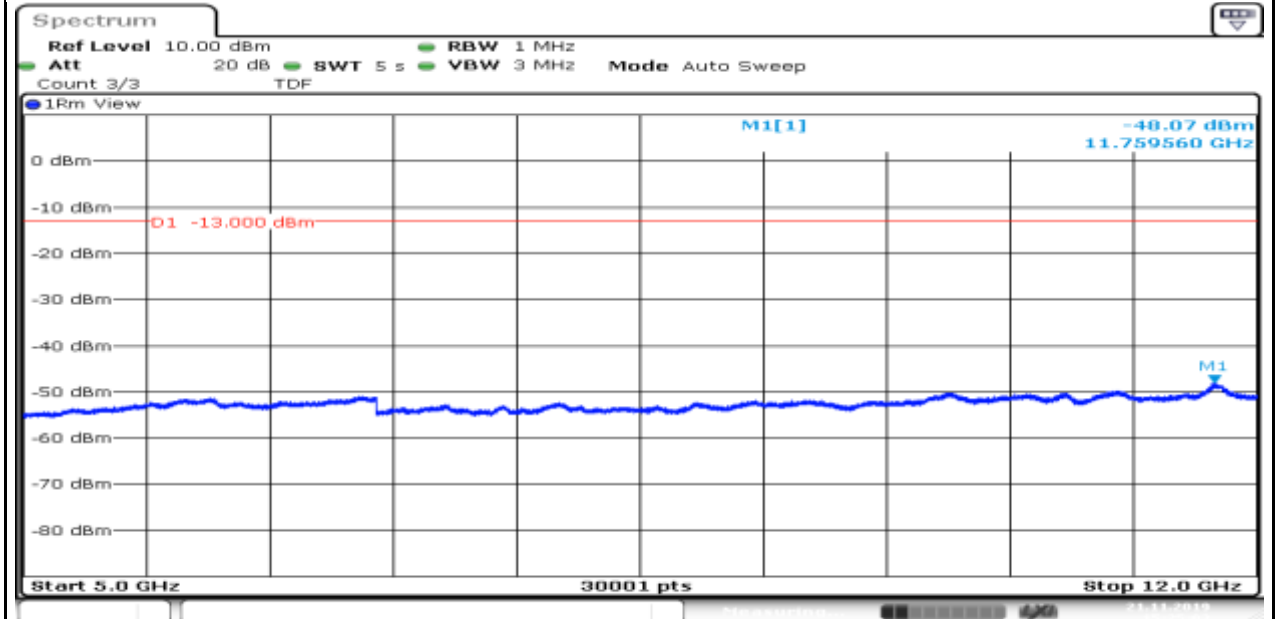
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Produkte
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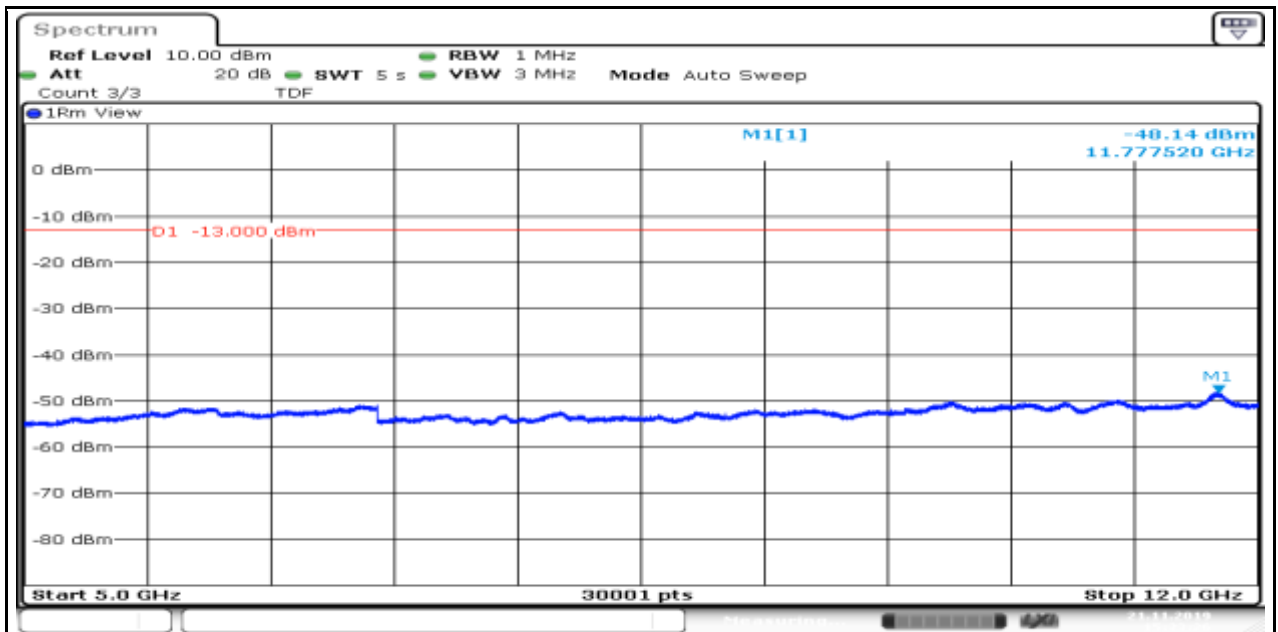
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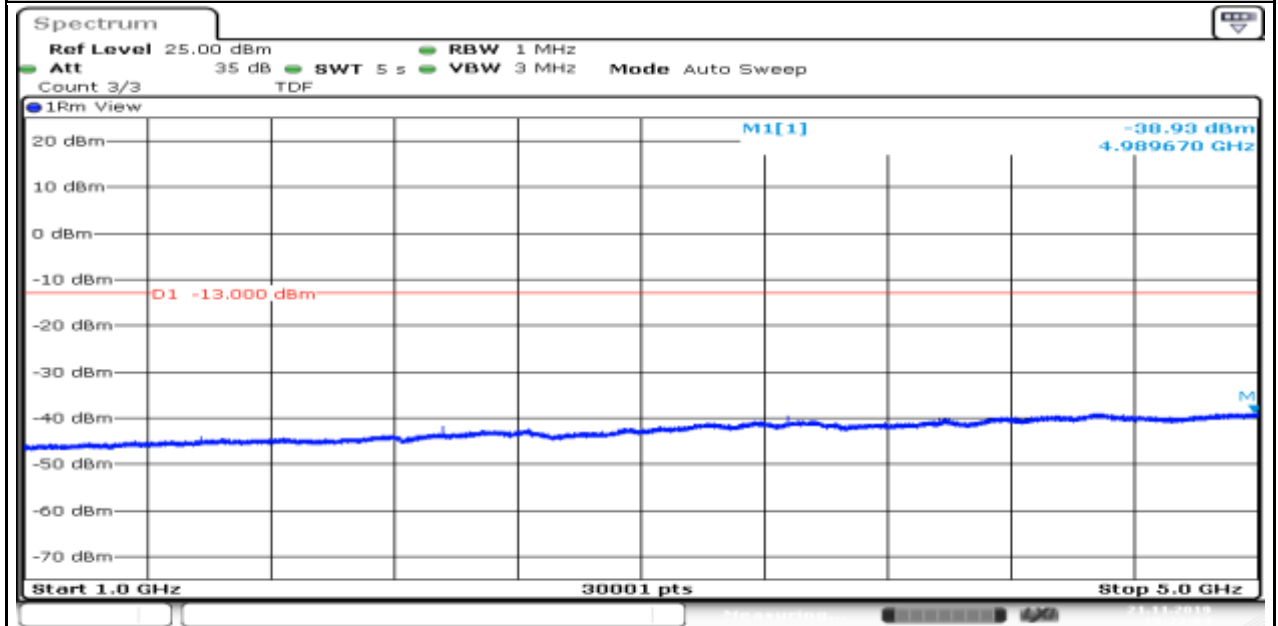
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Produkte
Products



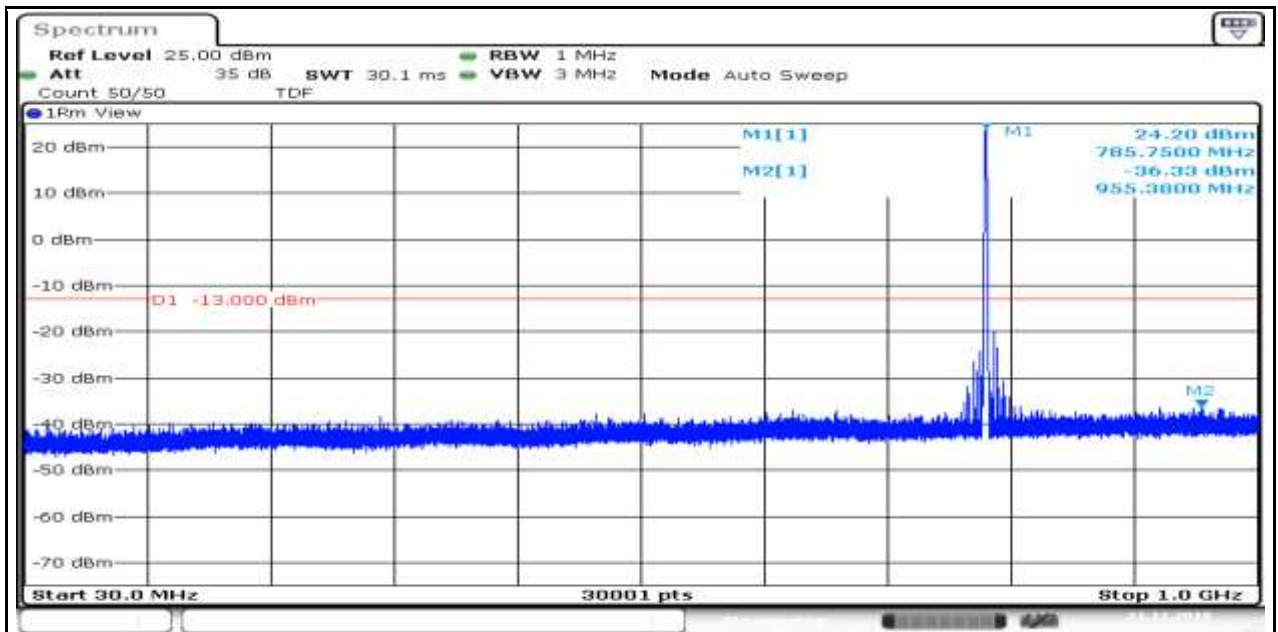
Date: 21.NOV.2019 15:33:26

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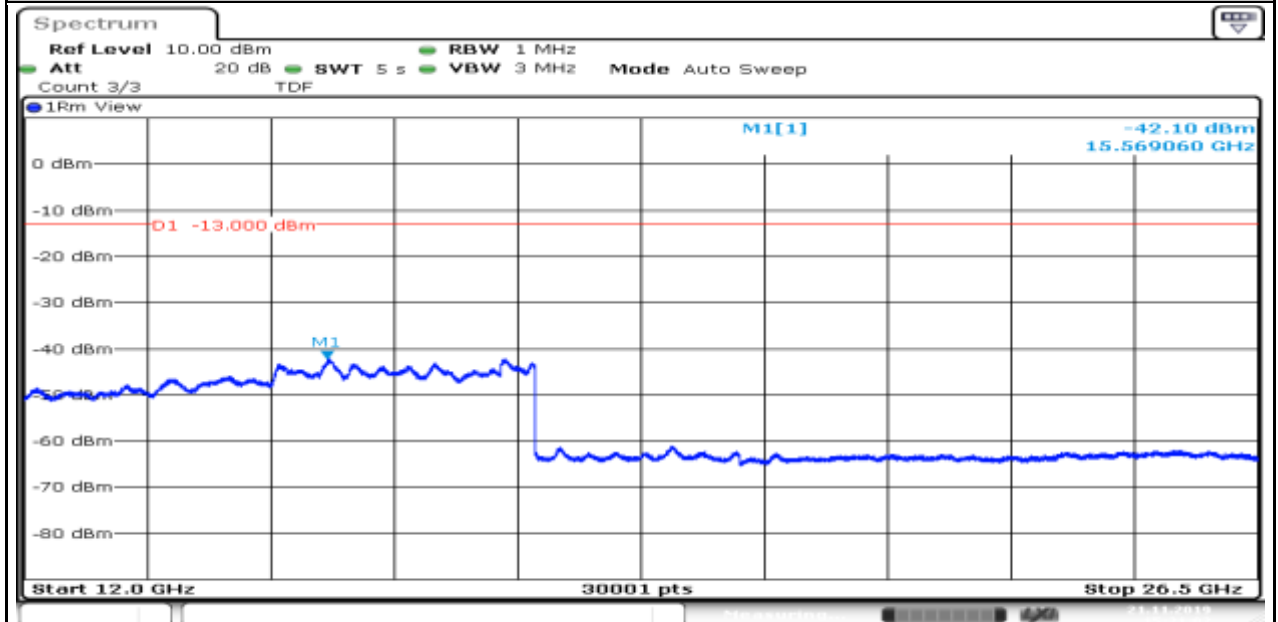
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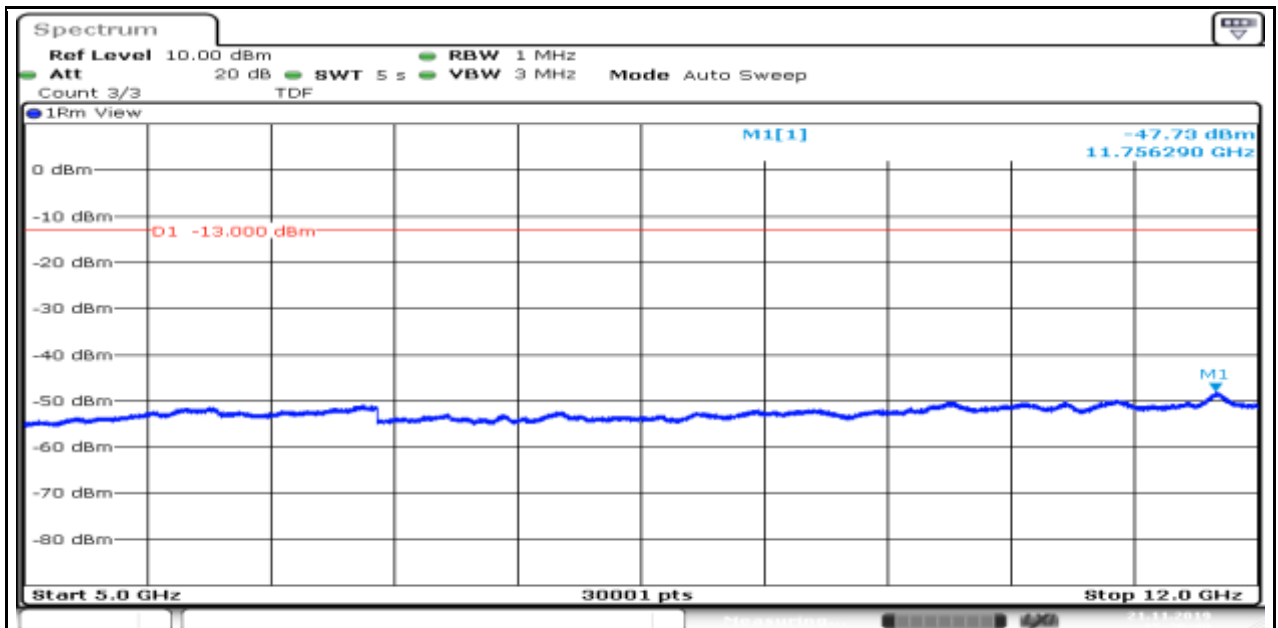
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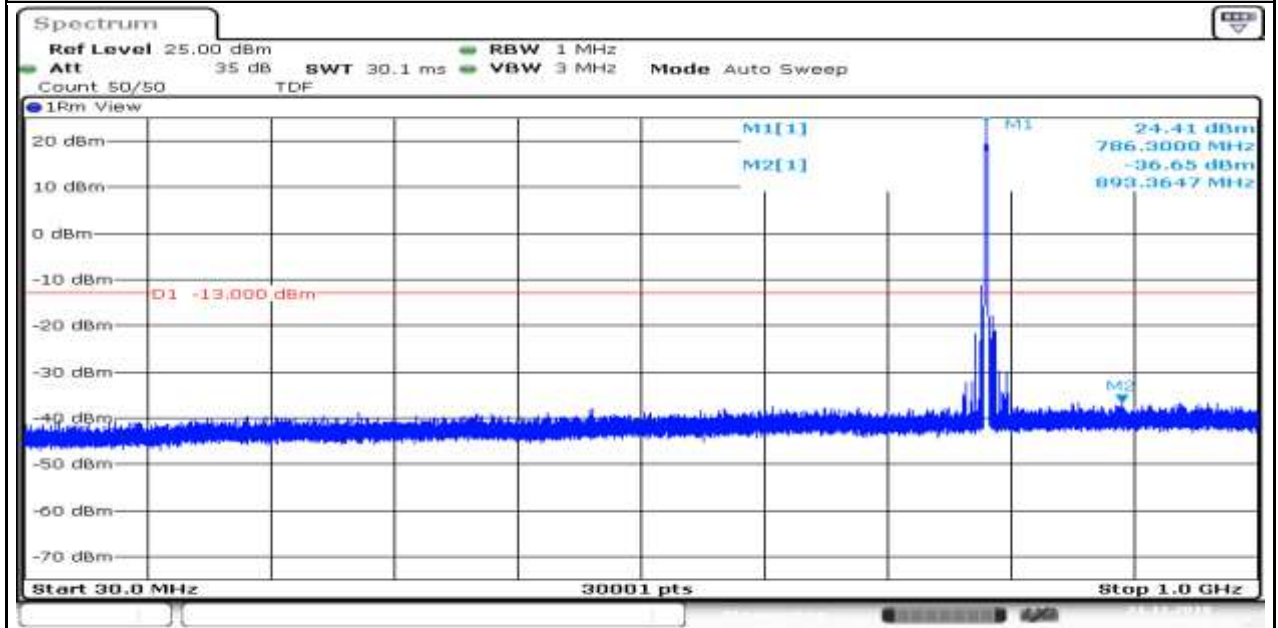
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Produkte
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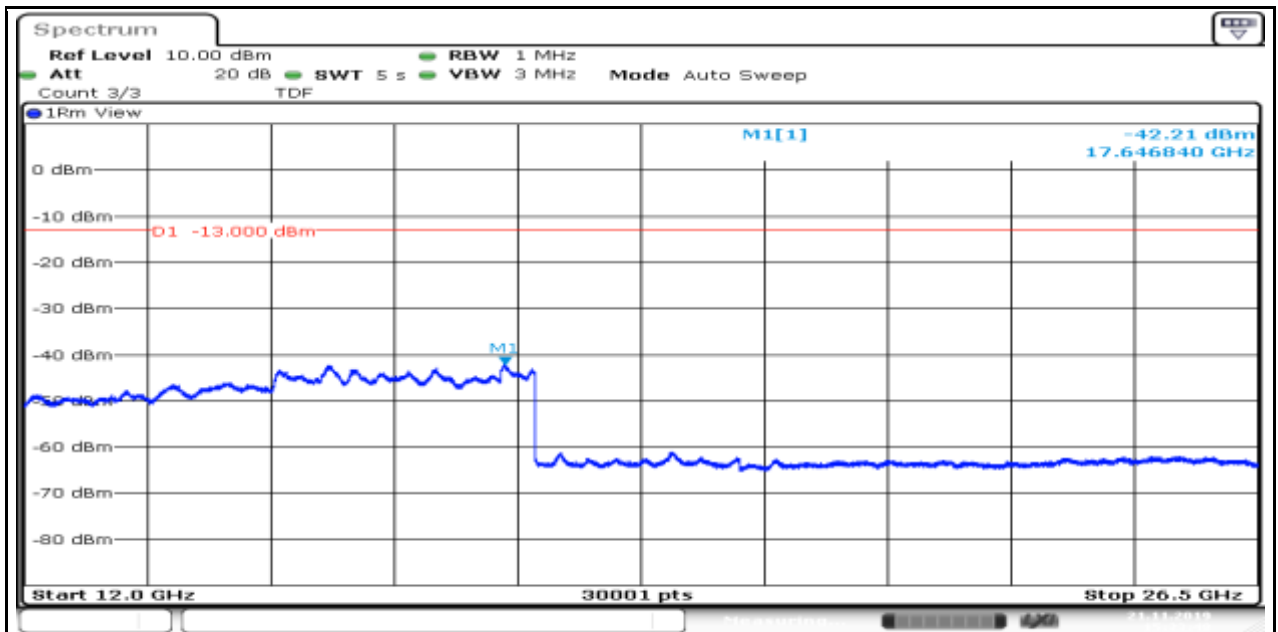
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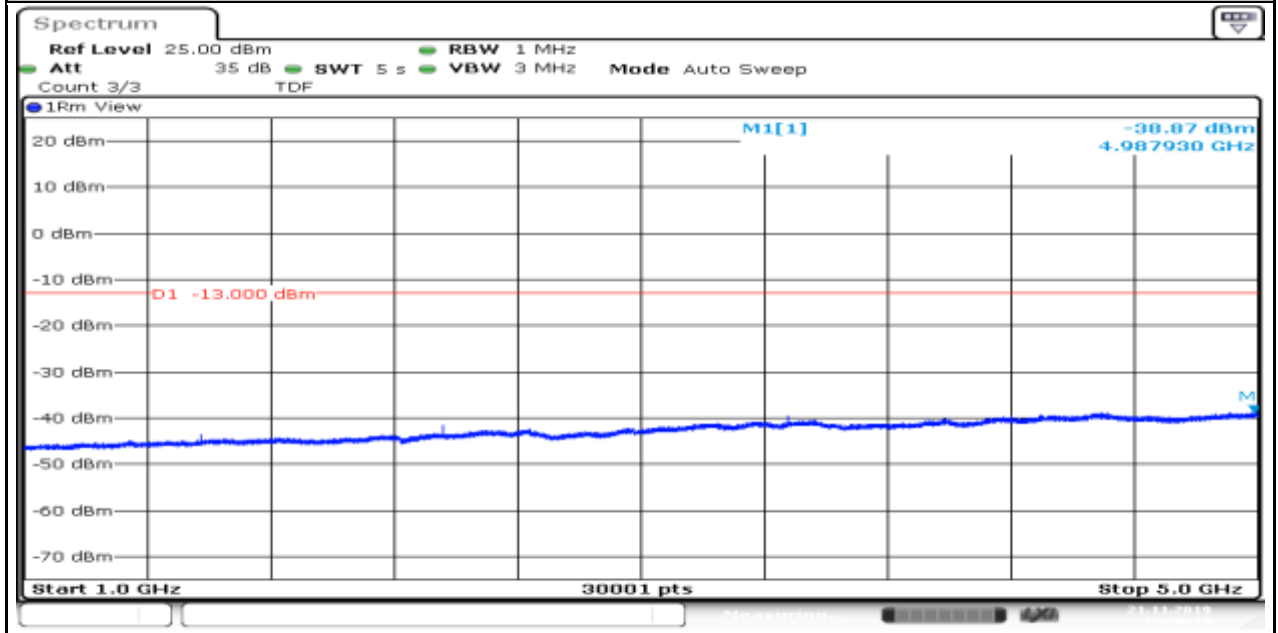
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Band13_5MHz_16QAM_23255_3_3_High_12000_26500_-42.21_PASS_

Produkte
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Band13_5MHz_16QAM_23255_1_5_High_1000_5000_-38.87_PASS_



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	-8.65	-0.01106	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	NT	-9.5	-0.01215	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	LV	NT	-9.04	-0.01156	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	HV	NT	64.76	0.082813	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	NT	66.96	0.085627	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	LV	NT	65.6	0.083887	±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	80	-7.57	-0.00968	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-40	-9.7	-0.0124	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	85	-7.12	-0.00911	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	70	-9.27	-0.01185	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	60	-5.58	-0.00714	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	50	-7.94	-0.01015	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	40	-8.24	-0.01054	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	20	-10.2	-0.01304	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	10	-9.87	-0.01262	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	0	-6.84	-0.00875	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-10	-8.44	-0.01079	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-20	-8.47	-0.01083	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	-30	-7.91	-0.01012	±2.5	PASS
Band13	5MHz	QPSK	23230	1	0	Low	NV	30	-7.41	-0.00948	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	20	65.03	0.083159	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-40	65.47	0.083721	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	85	66.16	0.084604	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	80	65.7	0.084015	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	70	64.82	0.08289	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	60	64.16	0.082046	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	50	66.03	0.084437	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-30	64.72	0.082762	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	30	66	0.084399	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	10	65.77	0.084105	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	0	65.15	0.083312	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-10	66.98	0.085652	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	-20	65.43	0.08367	±2.5	PASS
Band13	5MHz	16QAM	23230	1	0	Low	NV	40	65.63	0.083926	±2.5	PASS

Appendix F: Test Results of Band 25 for eMTC operation

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Appendix F.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)	EIRP		Limit (watts)	Verdict
								dBm	Watts		
Band25	1.4MHz	QPSK	26047	1	0	Low	21.66	23.8	0.240	2	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	21.49	23.63	0.231	2	PASS
Band25	1.4MHz	QPSK	26683	1	5	Low	21.24	23.38	0.218	2	PASS
Band25	1.4MHz	QPSK	26047	6	0	Low	19.41	21.55	0.143	2	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	19.33	21.47	0.140	2	PASS
Band25	1.4MHz	QPSK	26683	6	0	Low	19.33	21.47	0.140	2	PASS
Band25	1.4MHz	16QAM	26047	1	0	Low	20.58	22.72	0.187	2	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	20.47	22.61	0.182	2	PASS
Band25	1.4MHz	16QAM	26683	1	5	Low	20.09	22.23	0.167	2	PASS
Band25	1.4MHz	16QAM	26047	6	0	Low	19.31	21.45	0.140	2	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	19.29	21.43	0.139	2	PASS
Band25	1.4MHz	16QAM	26683	6	0	Low	19.22	21.36	0.137	2	PASS
Band25	3MHz	QPSK	26055	1	0	Low	21.45	23.59	0.229	2	PASS
Band25	3MHz	QPSK	26365	1	0	Low	21.41	23.55	0.226	2	PASS
Band25	3MHz	QPSK	26675	1	5	High	21.32	23.46	0.222	2	PASS
Band25	3MHz	QPSK	26055	6	0	Low	19.48	21.62	0.145	2	PASS
Band25	3MHz	QPSK	26365	6	0	Low	19.11	21.25	0.133	2	PASS
Band25	3MHz	QPSK	26675	6	0	High	19	21.14	0.130	2	PASS
Band25	3MHz	16QAM	26055	1	0	Low	20.58	22.72	0.187	2	PASS
Band25	3MHz	16QAM	26365	1	0	Low	20.57	22.71	0.187	2	PASS
Band25	3MHz	16QAM	26675	1	5	High	20.07	22.21	0.166	2	PASS
Band25	3MHz	16QAM	26055	6	0	Low	19.08	21.22	0.132	2	PASS
Band25	3MHz	16QAM	26365	6	0	Low	19.18	21.32	0.136	2	PASS
Band25	3MHz	16QAM	26675	6	0	High	19	21.14	0.130	2	PASS
Band25	5MHz	QPSK	26065	1	0	Low	21.52	23.66	0.232	2	PASS
Band25	5MHz	QPSK	26365	1	0	Low	21.36	23.5	0.224	2	PASS
Band25	5MHz	QPSK	26665	1	5	High	21.15	23.29	0.213	2	PASS
Band25	5MHz	QPSK	26665	3	3	High	21.08	23.22	0.210	2	PASS
Band25	5MHz	QPSK	26065	6	0	Low	20.25	22.39	0.173	2	PASS
Band25	5MHz	QPSK	26365	6	0	Low	20.29	22.43	0.175	2	PASS
Band25	5MHz	16QAM	26065	1	0	Low	21.25	23.39	0.218	2	PASS
Band25	5MHz	16QAM	26365	1	0	Low	21.1	23.24	0.211	2	PASS
Band25	5MHz	16QAM	26665	1	5	High	20.96	23.1	0.204	2	PASS
Band25	5MHz	16QAM	26665	3	3	High	21.13	23.27	0.212	2	PASS
Band25	5MHz	16QAM	26065	6	0	Low	20.25	22.39	0.173	2	PASS
Band25	5MHz	16QAM	26365	6	0	Low	20.29	22.43	0.175	2	PASS
Band25	10MHz	QPSK	26090	1	0	Low	21.58	23.72	0.236	2	PASS
Band25	10MHz	QPSK	26365	1	0	Low	21.41	23.55	0.226	2	PASS
Band25	10MHz	QPSK	26640	1	5	High	21.16	23.3	0.214	2	PASS
Band25	10MHz	QPSK	26090	5	0	Low	21.28	23.42	0.220	2	PASS
Band25	10MHz	QPSK	26365	5	0	Low	21.2	23.34	0.216	2	PASS
Band25	10MHz	QPSK	26640	5	1	High	21.15	23.29	0.213	2	PASS
Band25	10MHz	16QAM	26090	1	0	Low	21.21	23.35	0.216	2	PASS
Band25	10MHz	16QAM	26365	1	0	Low	21	23.14	0.206	2	PASS
Band25	10MHz	16QAM	26640	1	5	High	20.78	22.92	0.196	2	PASS
Band25	10MHz	16QAM	26090	5	0	Low	21.21	23.35	0.216	2	PASS
Band25	10MHz	16QAM	26365	5	0	Low	21.03	23.17	0.207	2	PASS
Band25	10MHz	16QAM	26640	5	1	High	20.93	23.07	0.203	2	PASS
Band25	15MHz	QPSK	26115	1	0	Low	21.5	23.64	0.231	2	PASS
Band25	15MHz	QPSK	26365	1	0	Low	21.39	23.53	0.225	2	PASS
Band25	15MHz	QPSK	26615	1	5	High	21.22	23.36	0.217	2	PASS

Produkte
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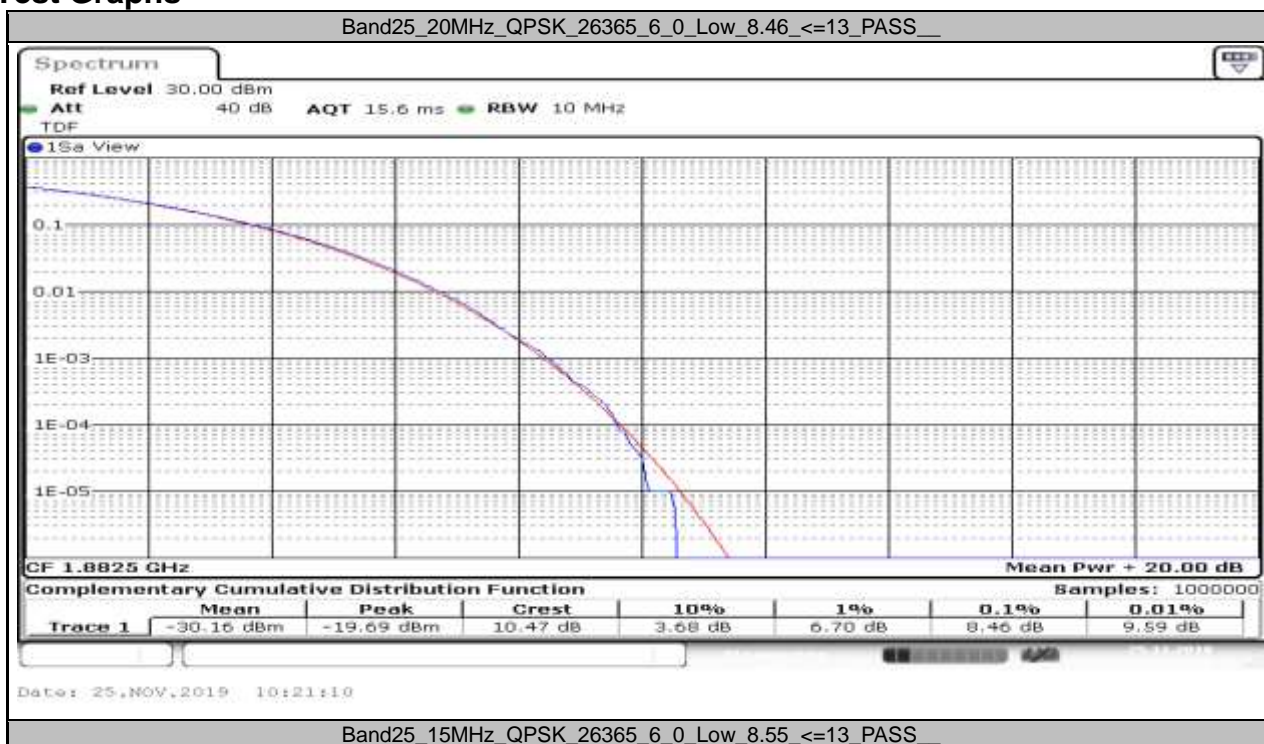
Band25	15MHz	QPSK	26115	6	0	Low	21.32	23.46	0.222	2	PASS
Band25	15MHz	QPSK	26365	6	0	Low	21.22	23.36	0.217	2	PASS
Band25	15MHz	QPSK	26615	6	0	High	21.01	23.15	0.207	2	PASS
Band25	15MHz	16QAM	26115	1	0	Low	21.29	23.43	0.220	2	PASS
Band25	15MHz	16QAM	26365	1	0	Low	21.1	23.24	0.211	2	PASS
Band25	15MHz	16QAM	26615	1	5	High	20.8	22.94	0.197	2	PASS
Band25	15MHz	16QAM	26115	6	0	Low	21.32	23.46	0.222	2	PASS
Band25	15MHz	16QAM	26365	6	0	Low	21.22	23.36	0.217	2	PASS
Band25	15MHz	16QAM	26615	6	0	High	21.1	23.24	0.211	2	PASS
Band25	20MHz	QPSK	26140	1	0	Low	21.38	23.52	0.225	2	PASS
Band25	20MHz	QPSK	26365	1	0	Low	21.43	23.57	0.228	2	PASS
Band25	20MHz	QPSK	26590	1	5	High	21.27	23.41	0.219	2	PASS
Band25	20MHz	QPSK	26140	6	0	Low	21.34	23.48	0.223	2	PASS
Band25	20MHz	QPSK	26365	6	0	Low	21.3	23.44	0.221	2	PASS
Band25	20MHz	QPSK	26590	6	0	High	21.14	23.28	0.213	2	PASS
Band25	20MHz	16QAM	26140	1	0	Low	21.22	23.36	0.217	2	PASS
Band25	20MHz	16QAM	26365	1	0	Low	21.12	23.26	0.212	2	PASS
Band25	20MHz	16QAM	26590	1	5	High	20.9	23.04	0.201	2	PASS
Band25	20MHz	16QAM	26140	6	0	Low	21.35	23.49	0.223	2	PASS
Band25	20MHz	16QAM	26365	6	0	Low	21.29	23.43	0.220	2	PASS
Band25	20MHz	16QAM	26590	6	0	High	21.26	23.4	0.219	2	PASS

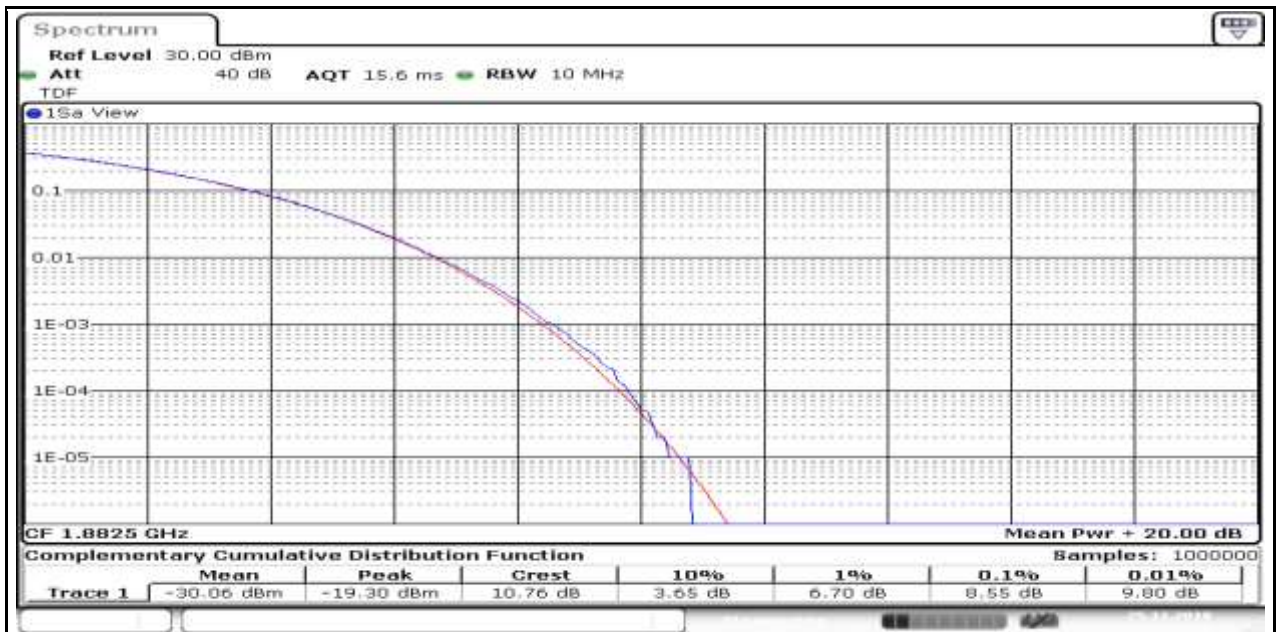
Appendix F.2: Peak-to-Average Ratio (CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band25	20MHz	QPSK	26365	6	0	Low	8.46	<=13	PASS
Band25	15MHz	QPSK	26365	6	0	Low	8.55	<=13	PASS
Band25	10MHz	QPSK	26365	6	0	Low	6.61	<=13	PASS
Band25	5MHz	QPSK	26365	6	0	Low	10.06	<=13	PASS
Band25	3MHz	QPSK	26365	6	0	Low	6.23	<=13	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	8.41	<=13	PASS
Band25	20MHz	16QAM	26365	6	0	Low	9.45	<=13	PASS
Band25	15MHz	16QAM	26365	6	0	Low	9.80	<=13	PASS
Band25	10MHz	16QAM	26365	6	0	Low	9.51	<=13	PASS
Band25	5MHz	16QAM	26365	6	0	Low	9.25	<=13	PASS
Band25	3MHz	16QAM	26365	6	0	Low	9.39	<=13	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	9.33	<=13	PASS

Test Graphs





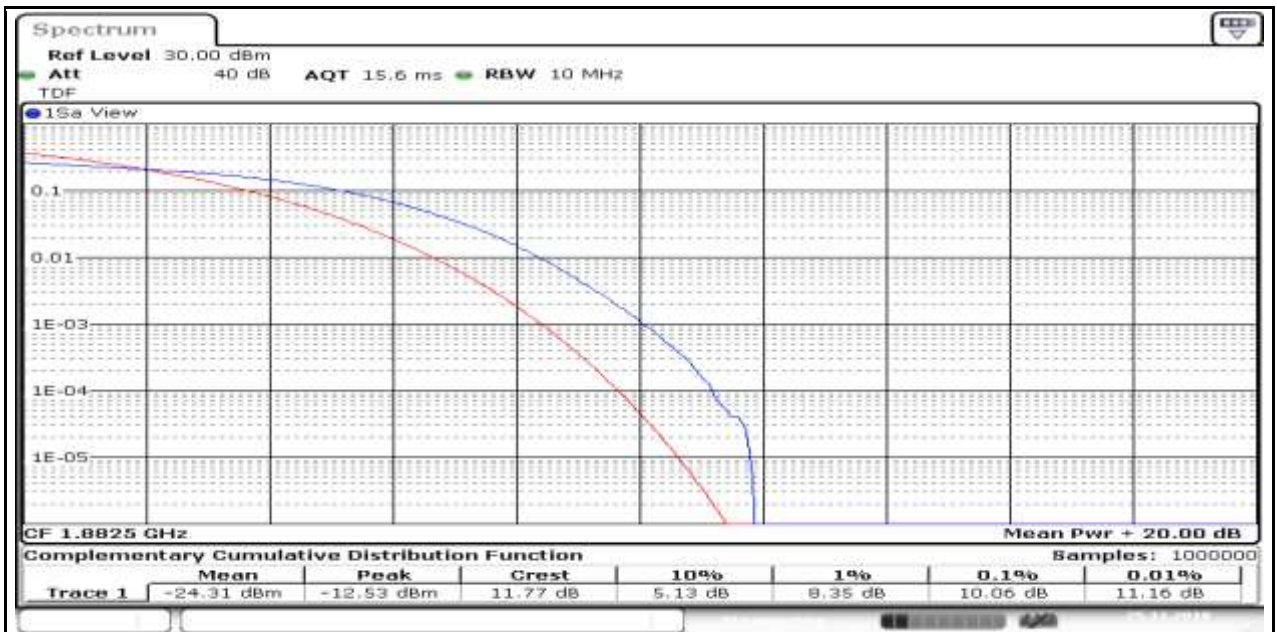
Date: 25.NOV.2019 10:19:07

Band25_10MHz_QPSK_26365_6_0_Low_6.61_<=13_PASS_



Date: 25.NOV.2019 10:18:28

Band25_5MHz_QPSK_26365_6_0_Low_10.06_<=13_PASS_



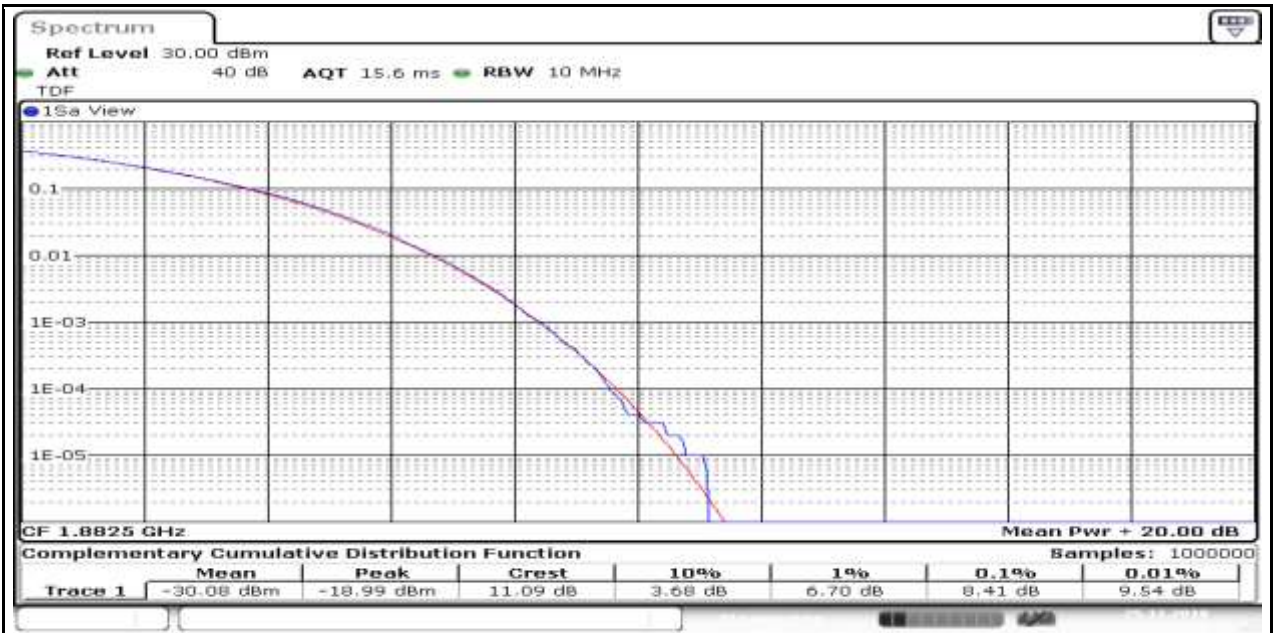
Date: 25.NOV.2019 10:16:34

Band25_3MHz_QPSK_26365_6_0_Low_6.23_<=13_PASS_



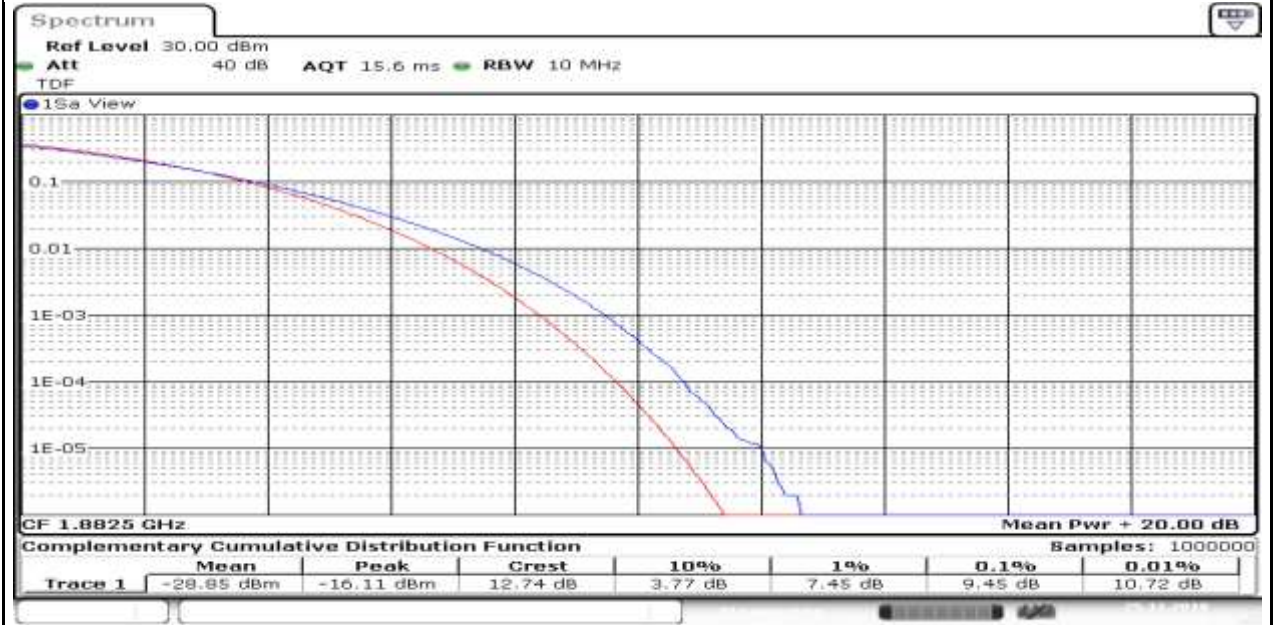
Date: 25.NOV.2019 10:14:21

Band25_1.4MHz_QPSK_26365_6_0_Low_8.41_<=13_PASS_



Date: 25.NOV.2019 10:11:45

Band25_20MHz_16QAM_26365_6_0_Low_9.45_<=13_PASS_



Date: 25.NOV.2019 10:21:26

Band25_15MHz_16QAM_26365_6_0_Low_9.80_<=13_PASS_



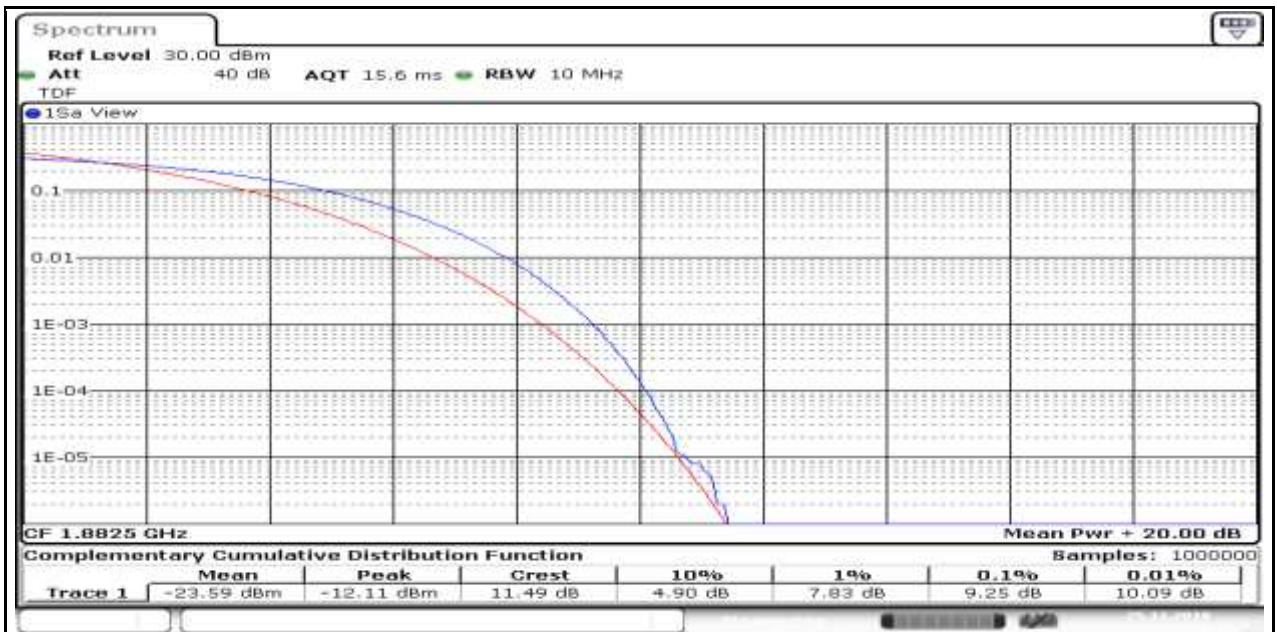
Date: 25.NOV.2019 10:19:23

Band25_10MHz_16QAM_26365_6_0_Low_9.51_<=13_PASS_



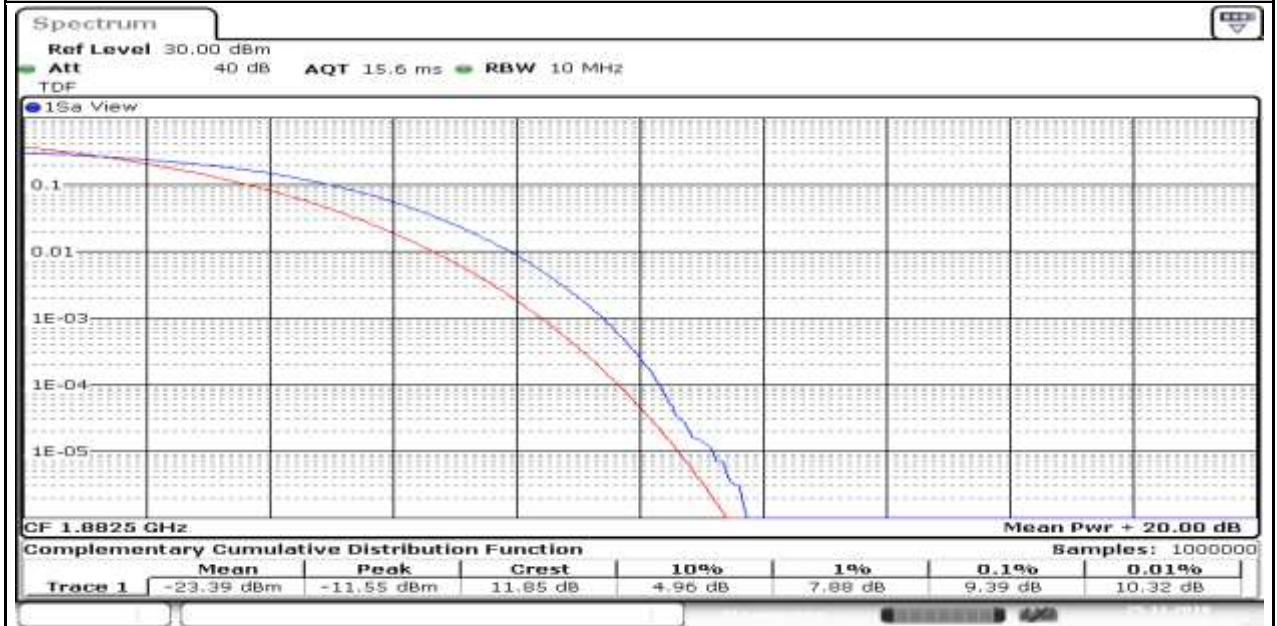
Date: 25.NOV.2019 10:18:45

Band25_5MHz_16QAM_26365_6_0_Low_9.25_<=13_PASS_



Date: 25.NOV.2019 10:16:50

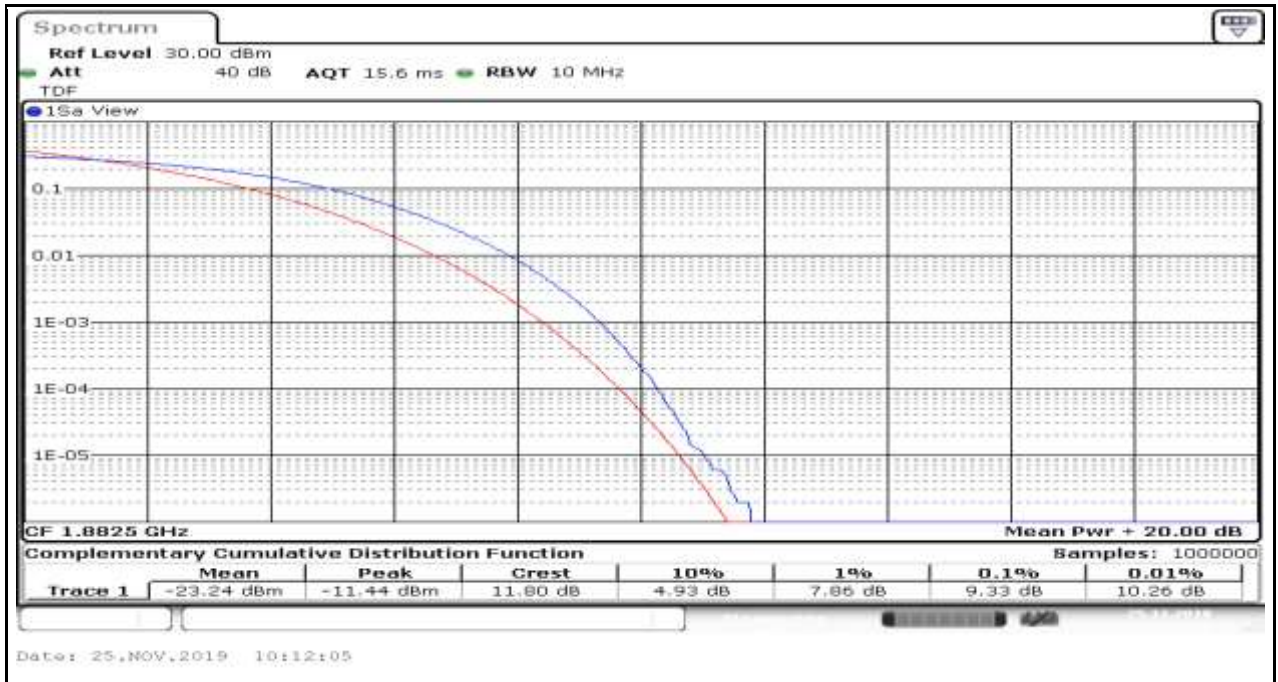
Band25_3MHz_16QAM_26365_6_0_Low_9.39_<=13_PASS_



Date: 25.NOV.2019 10:14:47

Band25_1.4MHz_16QAM_26365_6_0_Low_9.33_<=13_PASS_

Produkte
 Products

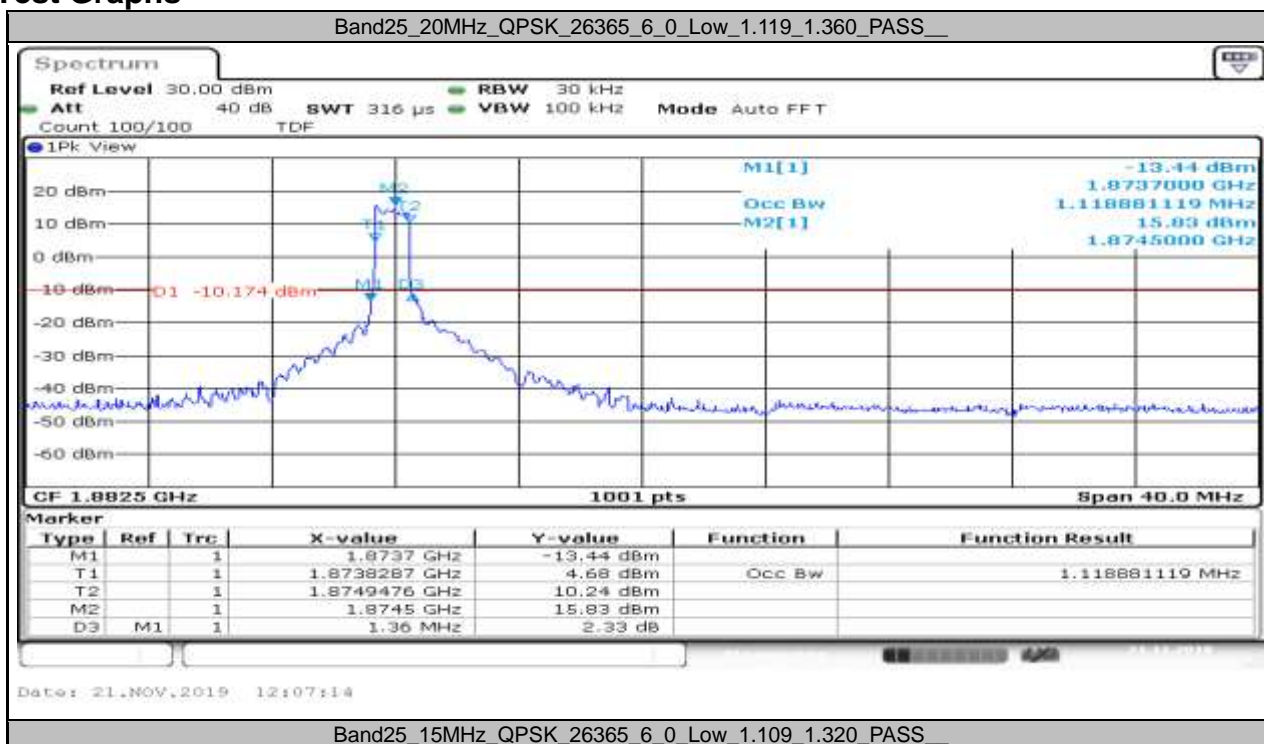


Appendix F.3: 26dB Bandwidth and Occupied Bandwidth for M1

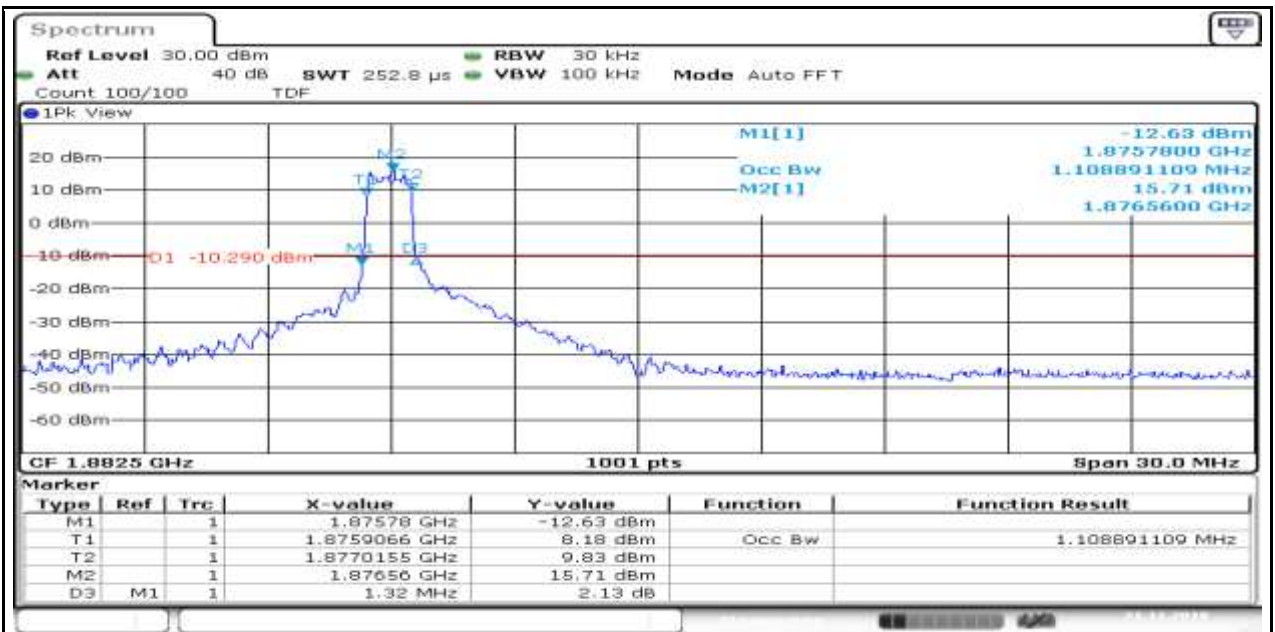
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	20MHz	QPSK	26365	6	0	Low	1.119	1.360	PASS
Band25	15MHz	QPSK	26365	6	0	Low	1.109	1.320	PASS
Band25	10MHz	QPSK	26365	6	0	Low	1.099	1.320	PASS
Band25	5MHz	QPSK	26365	6	0	Low	1.089	1.310	PASS
Band25	3MHz	QPSK	26365	6	0	Low	1.103	1.362	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	1.094	1.566	PASS
Band25	20MHz	16QAM	26365	6	0	Low	1.119	1.400	PASS
Band25	15MHz	16QAM	26365	6	0	Low	1.109	1.410	PASS
Band25	10MHz	16QAM	26365	6	0	Low	1.099	1.320	PASS
Band25	5MHz	16QAM	26365	6	0	Low	1.099	1.510	PASS
Band25	3MHz	16QAM	26365	6	0	Low	1.103	1.476	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	1.1	1.554	PASS

Test Graphs

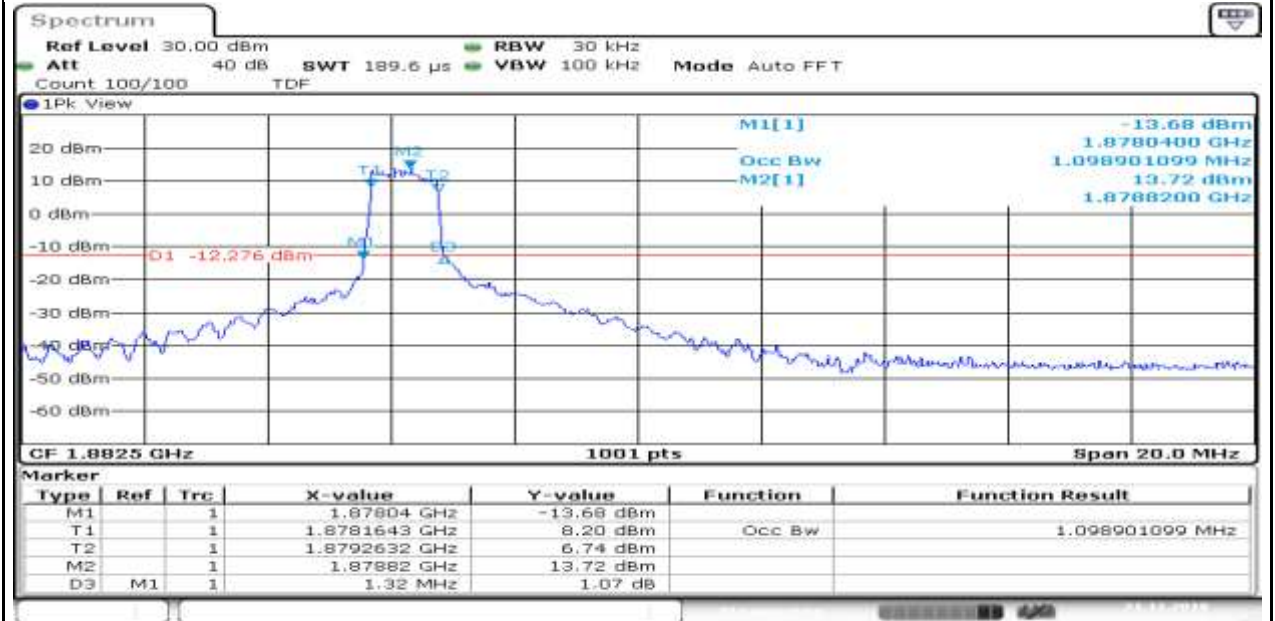


Produkte
 Products



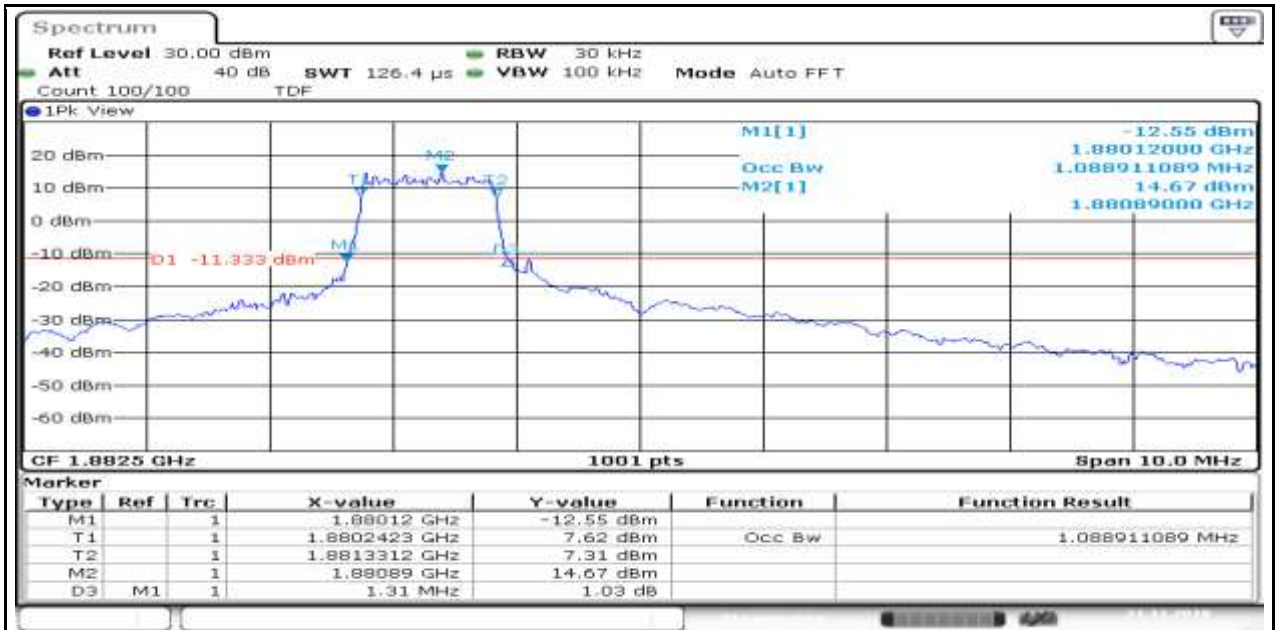
Date: 21.NOV.2019 12:05:05

Band25_10MHz_QPSK_26365_6_0_Low_1.099_1.320_PASS



Date: 21.NOV.2019 12:03:10

Band25_5MHz_QPSK_26365_6_0_Low_1.089_1.310_PASS



Date: 21.NOV.2019 11:56:01

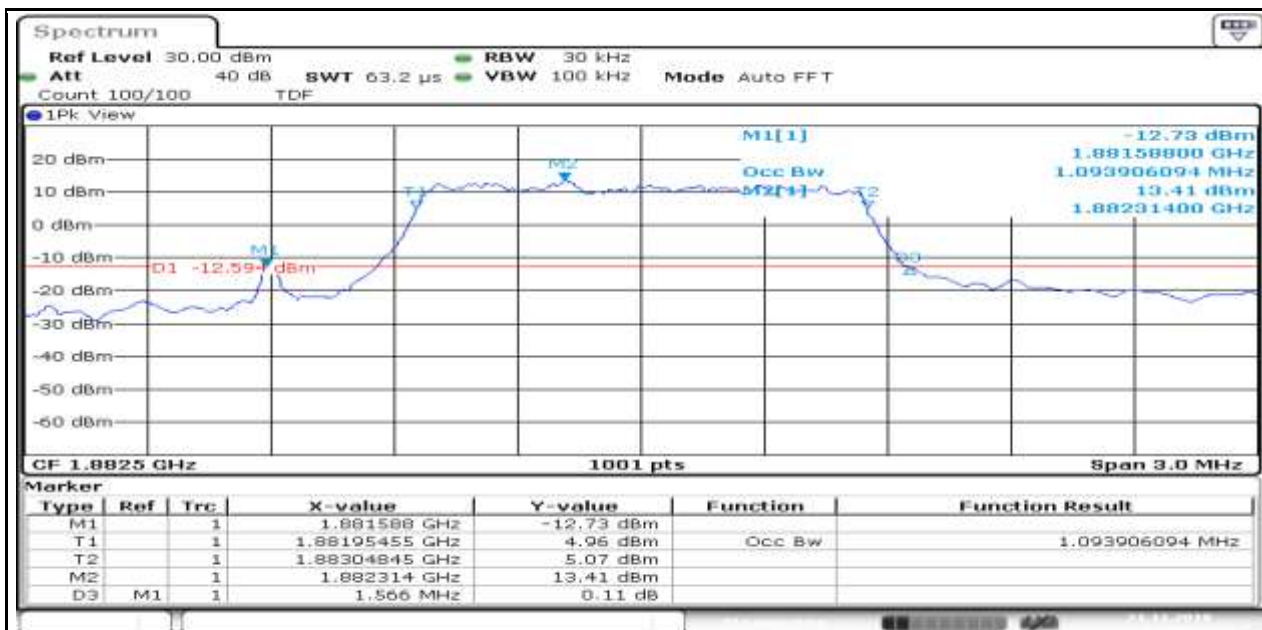
Band25_3MHz_QPSK_26365_6_0_Low_1.103_1.362_PASS_



Date: 21.NOV.2019 11:54:17

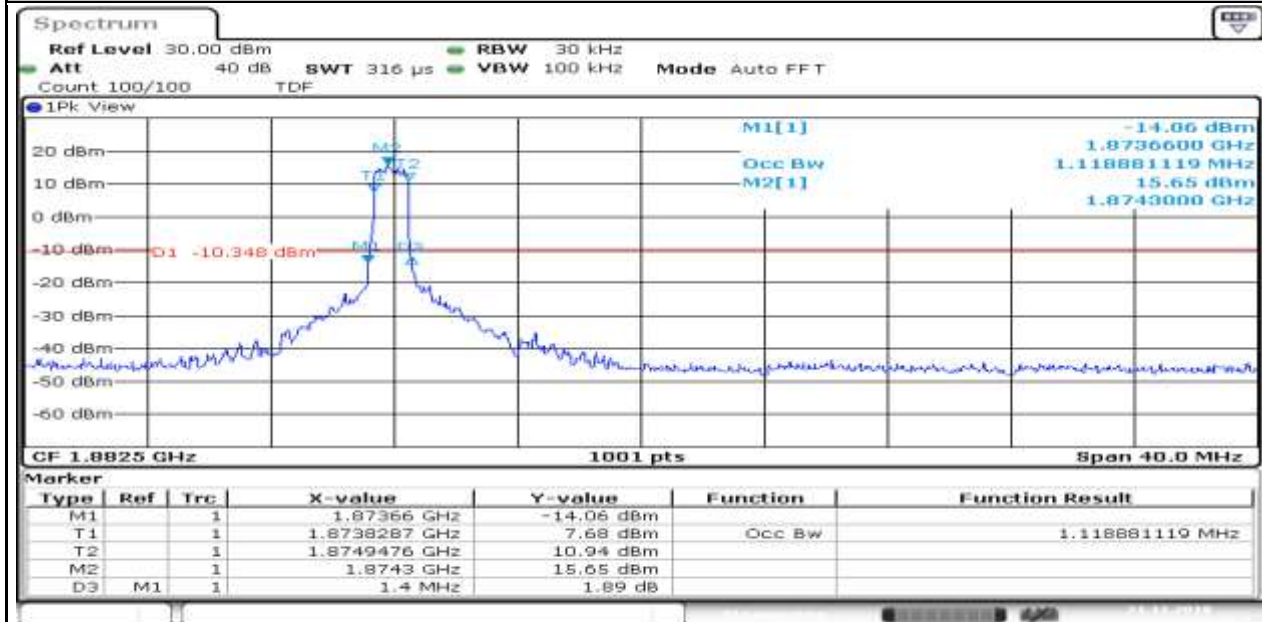
Band25_1.4MHz_QPSK_26365_6_0_Low_1.094_1.566_PASS_

Produkte
 Products



Date: 21.NOV.2019 11:49:05

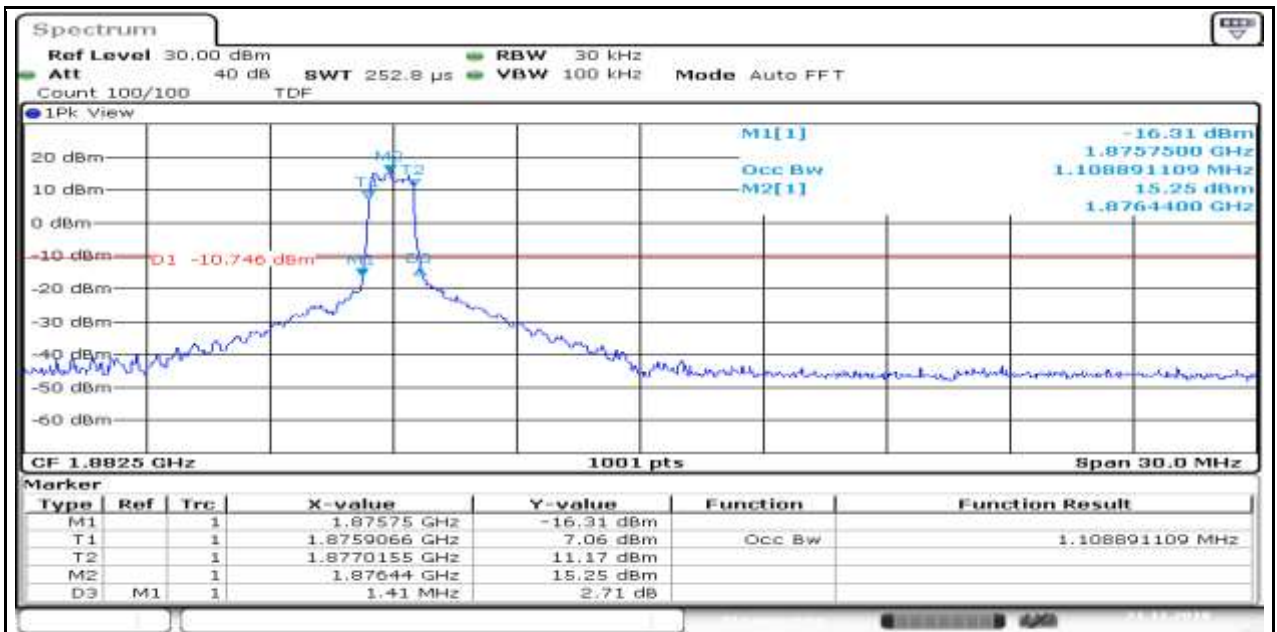
Band25_20MHz_16QAM_26365_6_0_Low_1.119_1.400_PASS_



Date: 21.NOV.2019 12:07:33

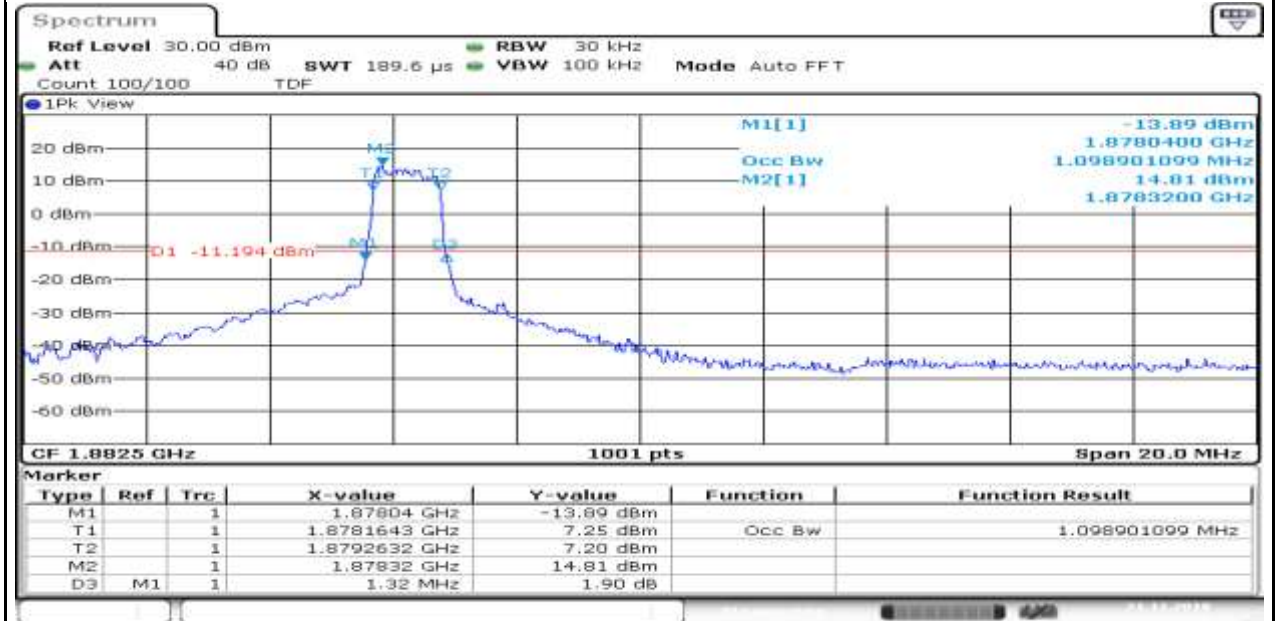
Band25_15MHz_16QAM_26365_6_0_Low_1.109_1.410_PASS_

Produkte
 Products



Date: 21.NOV.2019 12:05:23

Band25_10MHz_16QAM_26365_6_0_Low_1.099_1.320_PASS_



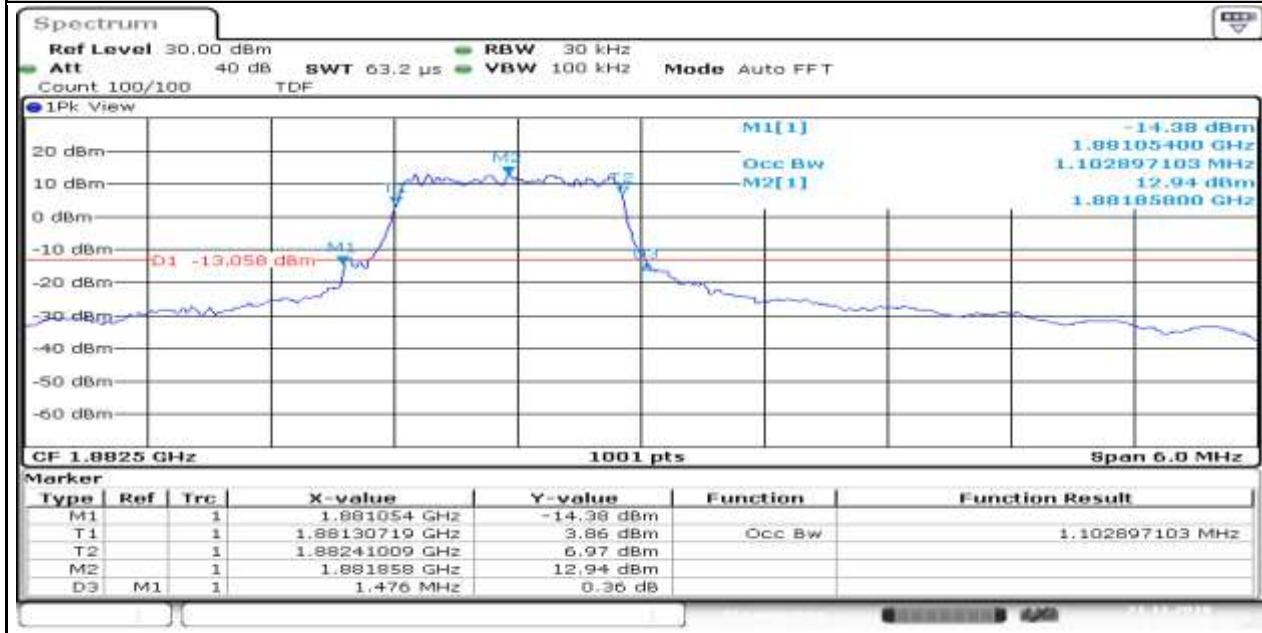
Date: 21.NOV.2019 12:03:28

Band25_5MHz_16QAM_26365_6_0_Low_1.099_1.510_PASS_

Produkte
 Products

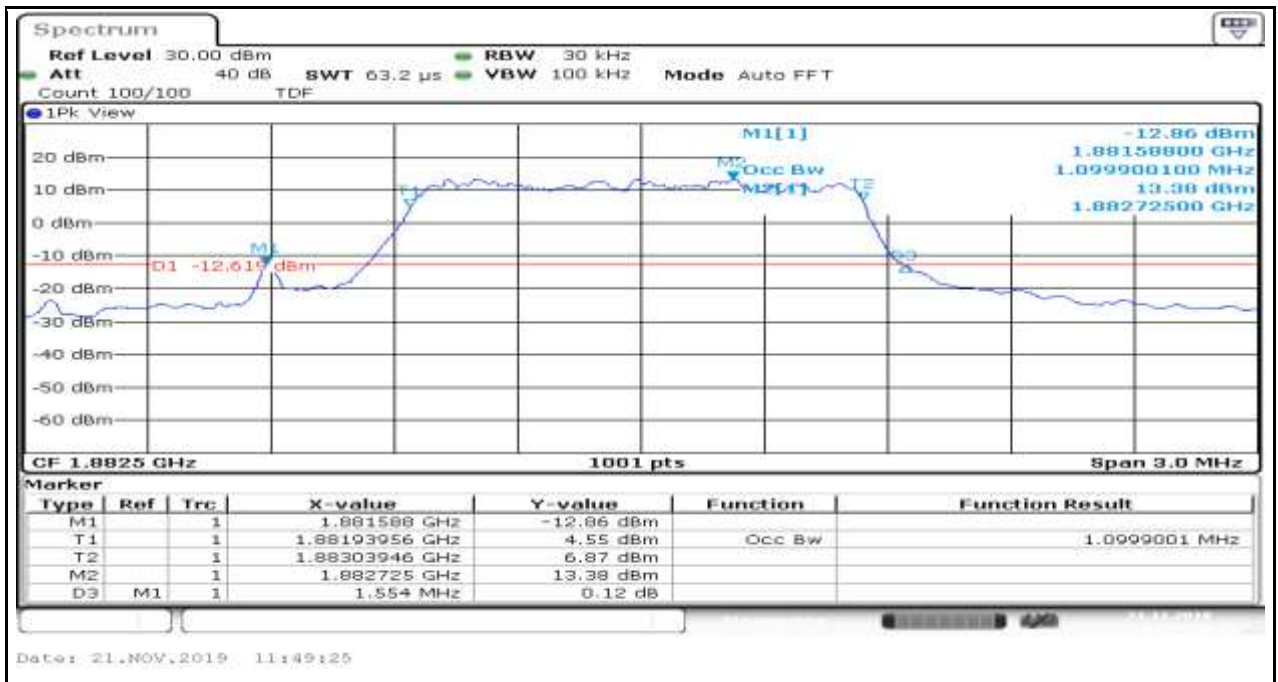


Band25_3MHz_16QAM_26365_6_0_Low_1.103_1.476_PASS



Band25_1.4MHz_16QAM_26365_6_0_Low_1.1_1.554_PASS

Produkte
 Products

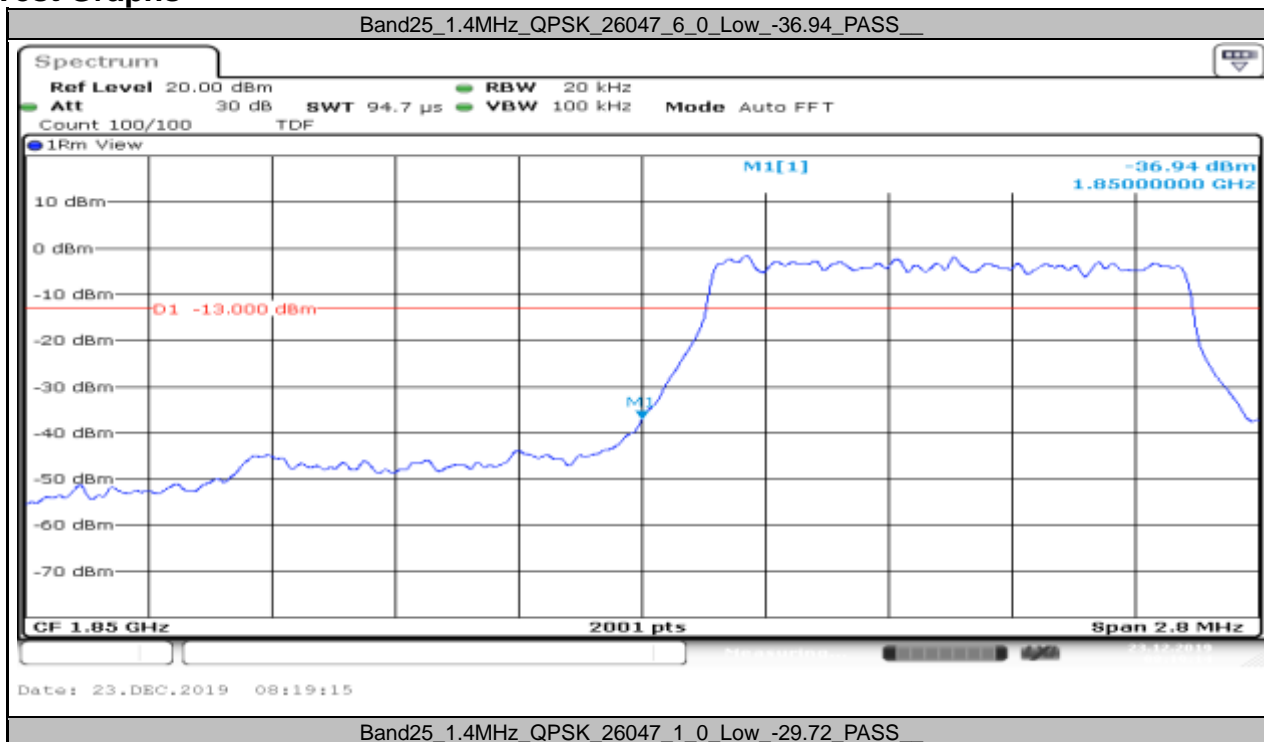


Appendix F.4: Band Edge for M1

Test Result

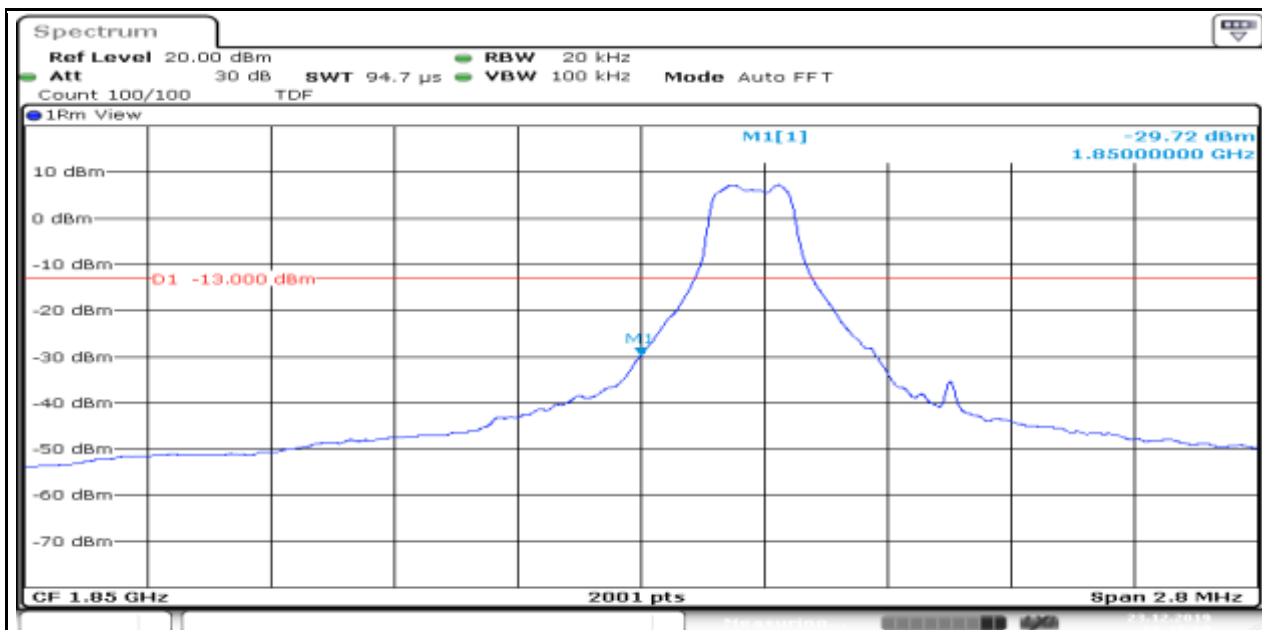
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	6	0	Low	-36.94	PASS
Band25	1.4MHz	QPSK	26047	1	0	Low	-29.72	PASS
Band25	1.4MHz	QPSK	26683	6	0	Low	-37.92	PASS
Band25	1.4MHz	QPSK	26683	1	5	Low	-46.55	PASS
Band25	1.4MHz	16QAM	26047	6	0	Low	-38.92	PASS
Band25	1.4MHz	16QAM	26047	1	0	Low	-32.16	PASS
Band25	1.4MHz	16QAM	26683	6	0	Low	-41.14	PASS
Band25	1.4MHz	16QAM	26683	1	5	Low	-48.40	PASS

Test Graphs

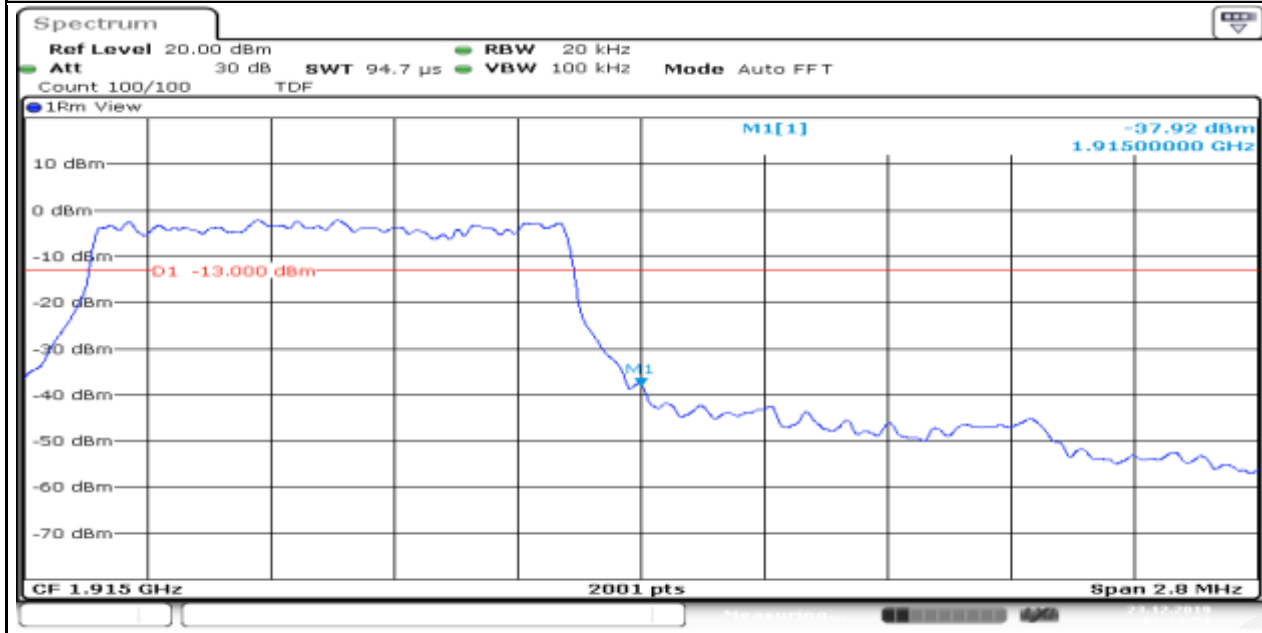


Band25_1.4MHz_QPSK_26047_1_0_Low_-29.72_PASS_

Produkte
Products

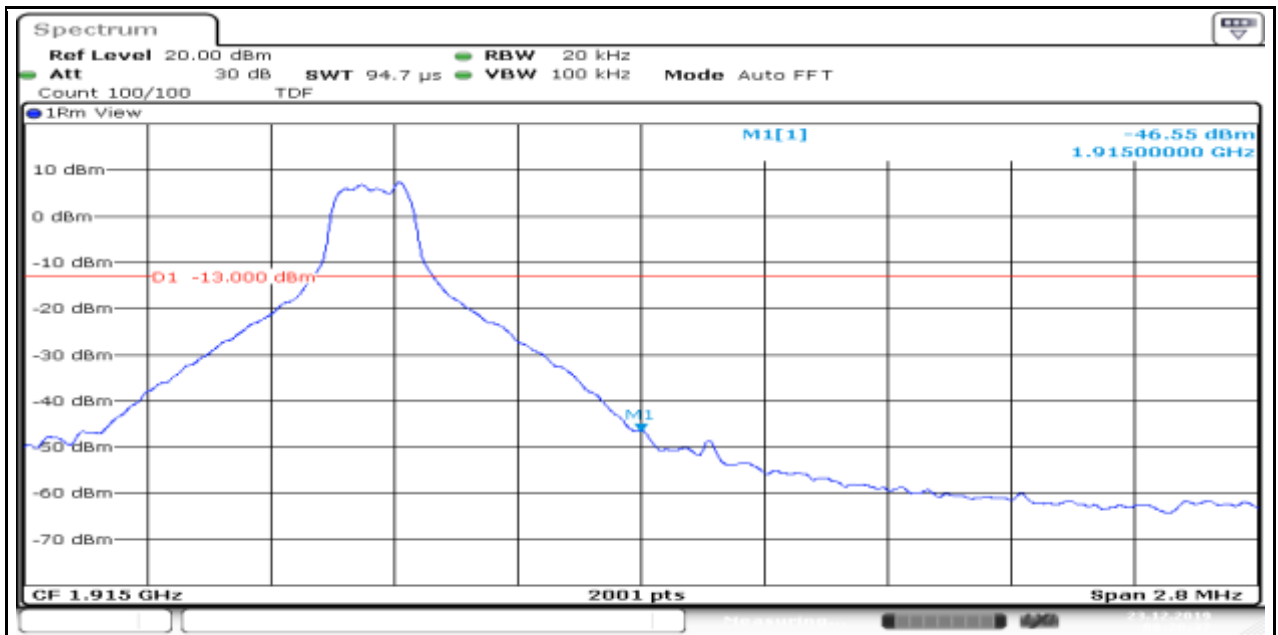


Band25_1.4MHz_QPSK_26683_6_0_Low_-37.92_PASS_



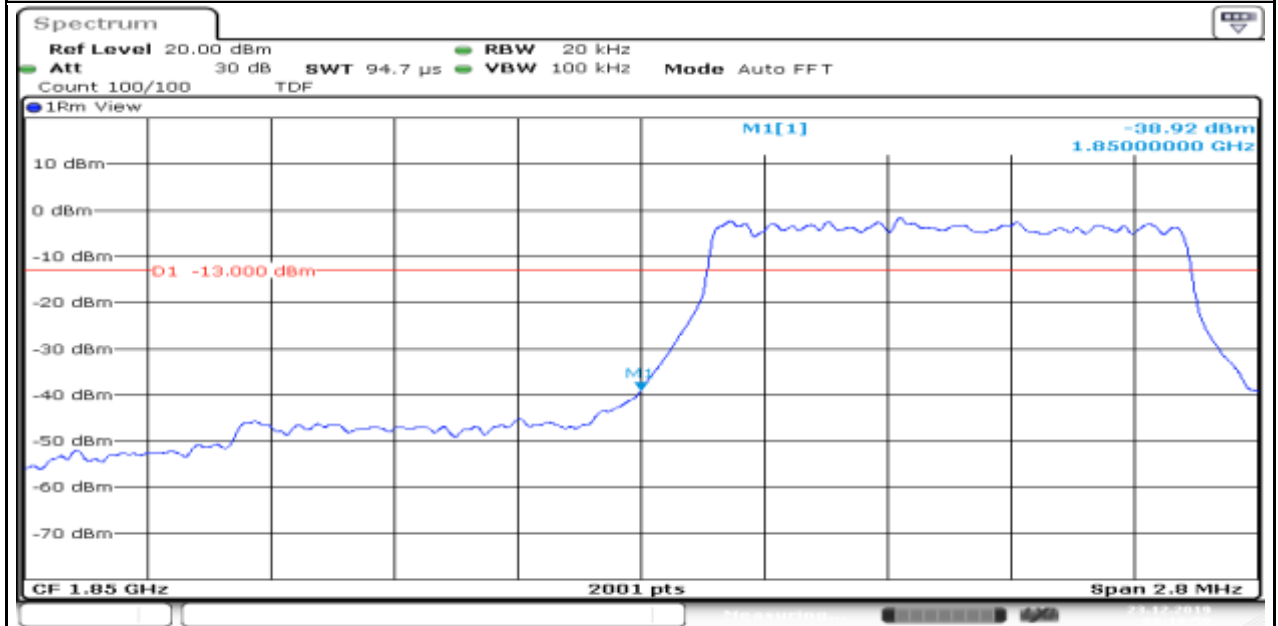
Band25_1.4MHz_QPSK_26683_1_5_Low_-46.55_PASS_

Produkte
Products



Date: 23.DEC.2019 08:20:37

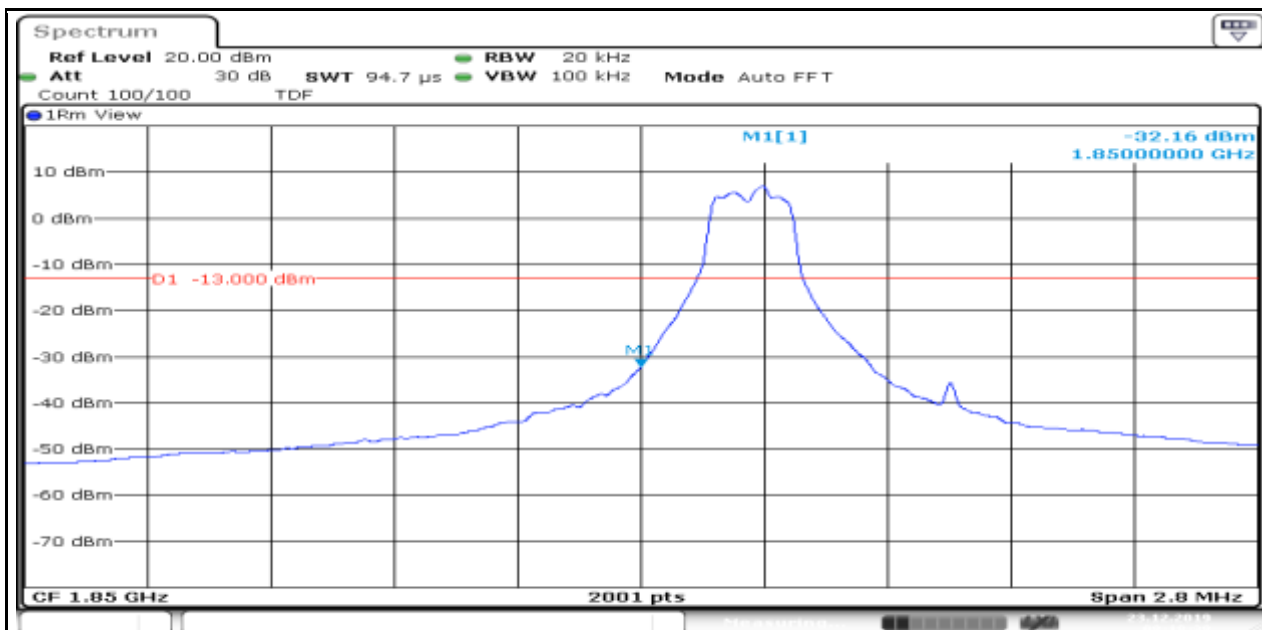
Band25_1.4MHz_16QAM_26047_6_0_Low_-38.92_PASS_



Date: 23.DEC.2019 08:19:50

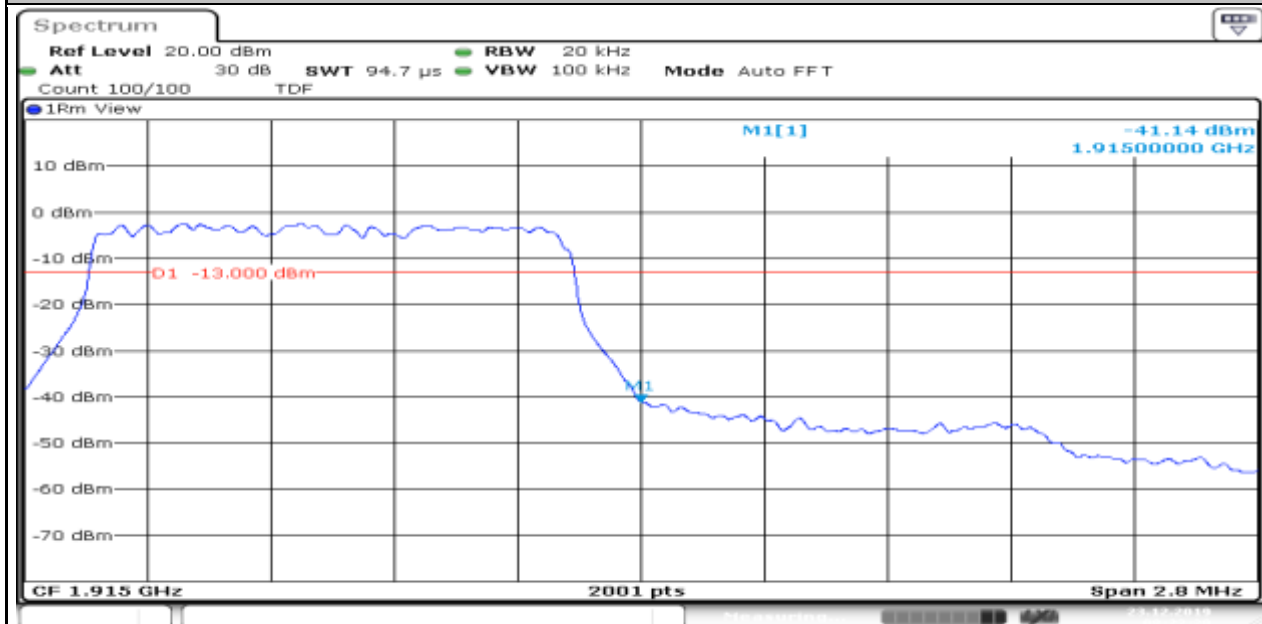
Band25_1.4MHz_16QAM_26047_1_0_Low_-32.16_PASS_

Produkte
Products



Date: 23.DEC.2019 08:18:39

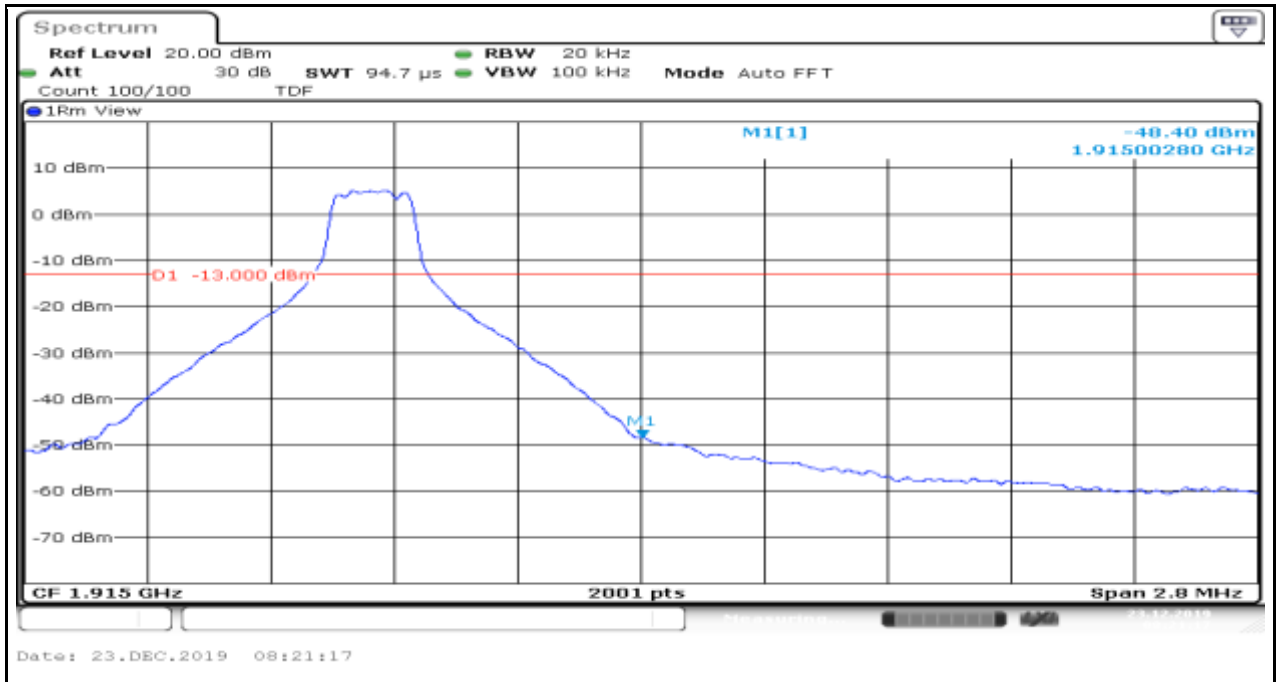
Band25_1.4MHz_16QAM_26683_6_0_Low_-41.14_PASS_



Date: 23.DEC.2019 08:22:29

Band25_1.4MHz_16QAM_26683_1_5_Low_-48.40_PASS_

Produkte
Products

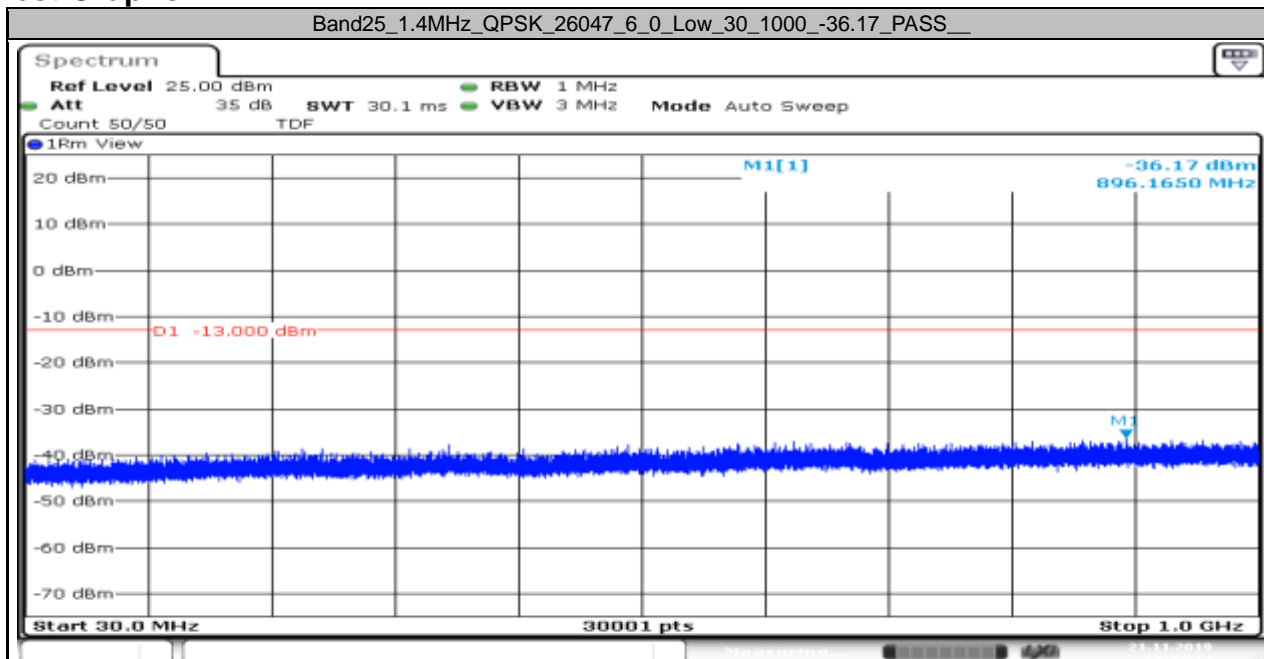


Appendix F.5: Conducted Spurious Emission for M1

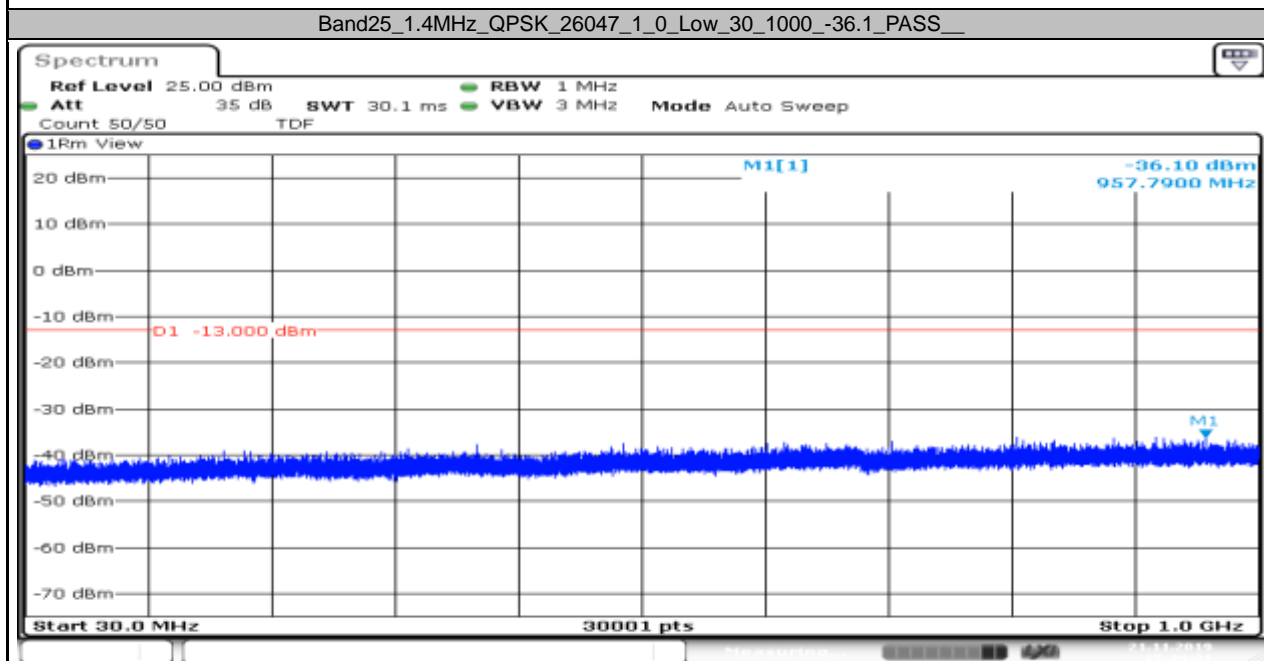
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	6	0	Low	30	1000	-36.17	PASS
Band25	1.4MHz	QPSK	26047	1	0	Low	30	1000	-36.1	PASS
Band25	1.4MHz	QPSK	26047	6	0	Low	12000	26500	-41.86	PASS
Band25	1.4MHz	QPSK	26047	6	0	Low	5000	12000	-47.41	PASS
Band25	1.4MHz	QPSK	26047	6	0	Low	1000	5000	-38.56	PASS
Band25	1.4MHz	QPSK	26047	1	0	Low	12000	26500	-41.91	PASS
Band25	1.4MHz	QPSK	26047	1	0	Low	1000	5000	-32.51	PASS
Band25	1.4MHz	QPSK	26047	1	0	Low	5000	12000	-43.13	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	12000	26500	-41.89	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	1000	5000	-33.74	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	5000	12000	-46.46	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	12000	26500	-41.91	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	1000	5000	-38.34	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	30	1000	-36.26	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	5000	12000	-47.95	PASS
Band25	1.4MHz	QPSK	26365	6	0	Low	30	1000	-36.02	PASS
Band25	1.4MHz	QPSK	26683	1	5	Low	12000	26500	-41.72	PASS
Band25	1.4MHz	QPSK	26683	6	0	Low	12000	26500	-41.79	PASS
Band25	1.4MHz	QPSK	26683	6	0	Low	5000	12000	-47.81	PASS
Band25	1.4MHz	QPSK	26683	6	0	Low	30	1000	-36.02	PASS
Band25	1.4MHz	QPSK	26683	1	5	Low	1000	5000	-33.53	PASS
Band25	1.4MHz	QPSK	26683	1	5	Low	5000	12000	-47.82	PASS
Band25	1.4MHz	QPSK	26683	1	5	Low	30	1000	-36.27	PASS
Band25	1.4MHz	QPSK	26683	6	0	Low	1000	5000	-38.39	PASS
Band25	1.4MHz	16QAM	26047	1	0	Low	1000	5000	-34.66	PASS
Band25	1.4MHz	16QAM	26047	1	0	Low	5000	12000	-44.98	PASS
Band25	1.4MHz	16QAM	26047	1	0	Low	12000	26500	-41.82	PASS
Band25	1.4MHz	16QAM	26047	6	0	Low	12000	26500	-41.91	PASS
Band25	1.4MHz	16QAM	26047	6	0	Low	5000	12000	-47.73	PASS
Band25	1.4MHz	16QAM	26047	6	0	Low	30	1000	-36.17	PASS
Band25	1.4MHz	16QAM	26047	1	0	Low	30	1000	-36.17	PASS
Band25	1.4MHz	16QAM	26047	6	0	Low	1000	5000	-38.47	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	12000	26500	-41.7	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	1000	5000	-35.31	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	12000	26500	-41.83	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	30	1000	-35.82	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	1000	5000	-38.48	PASS
Band25	1.4MHz	16QAM	26365	6	0	Low	5000	12000	-47.8	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	30	1000	-35.37	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	5000	12000	-45.62	PASS
Band25	1.4MHz	16QAM	26683	6	0	Low	5000	12000	-47.67	PASS
Band25	1.4MHz	16QAM	26683	6	0	Low	1000	5000	-38.54	PASS
Band25	1.4MHz	16QAM	26683	6	0	Low	30	1000	-35.76	PASS
Band25	1.4MHz	16QAM	26683	1	5	Low	12000	26500	-41.86	PASS
Band25	1.4MHz	16QAM	26683	1	5	Low	5000	12000	-45.08	PASS
Band25	1.4MHz	16QAM	26683	1	5	Low	30	1000	-36.17	PASS
Band25	1.4MHz	16QAM	26683	6	0	Low	12000	26500	-41.79	PASS
Band25	1.4MHz	16QAM	26683	1	5	Low	1000	5000	-35.55	PASS

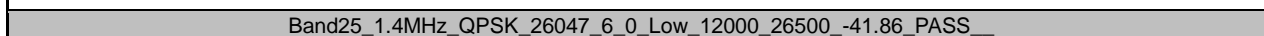
Test Graphs



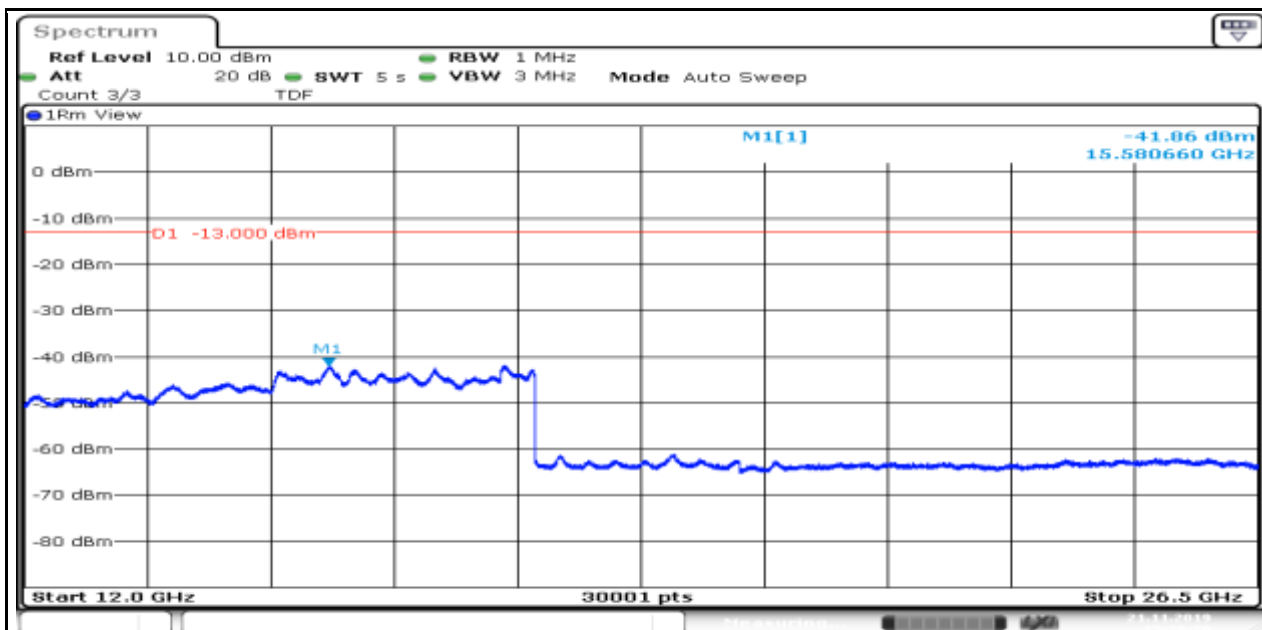
Date: 21.NOV.2019 15:37:14



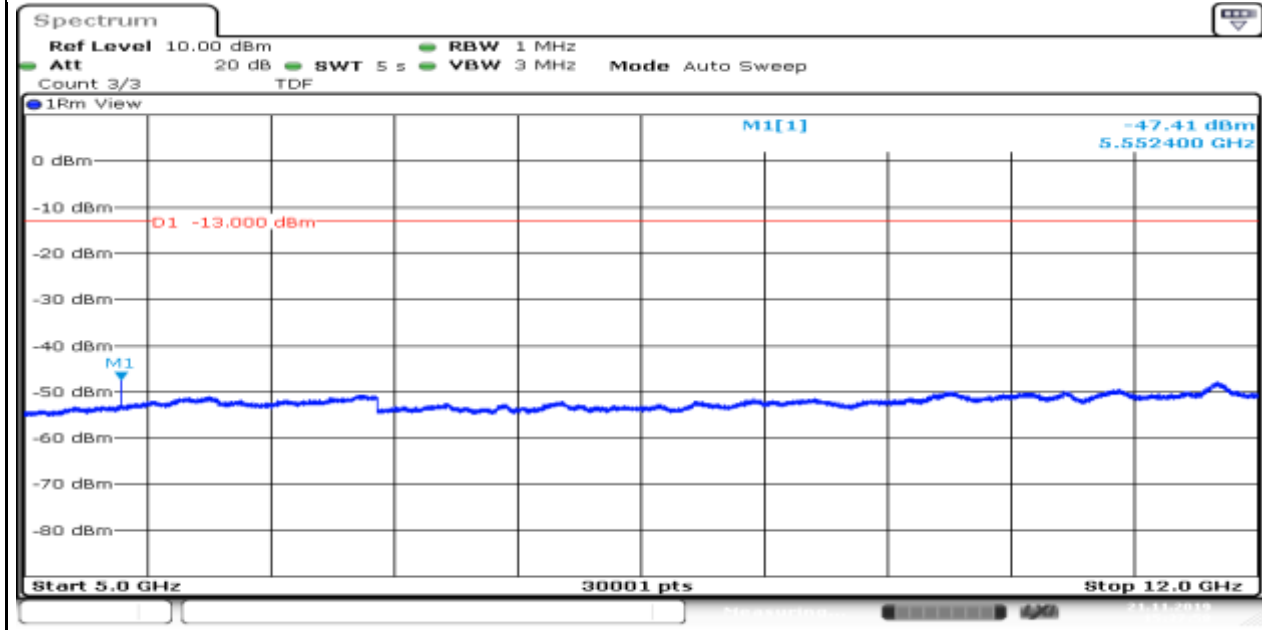
Date: 21.NOV.2019 15:34:21



Produkte
Products

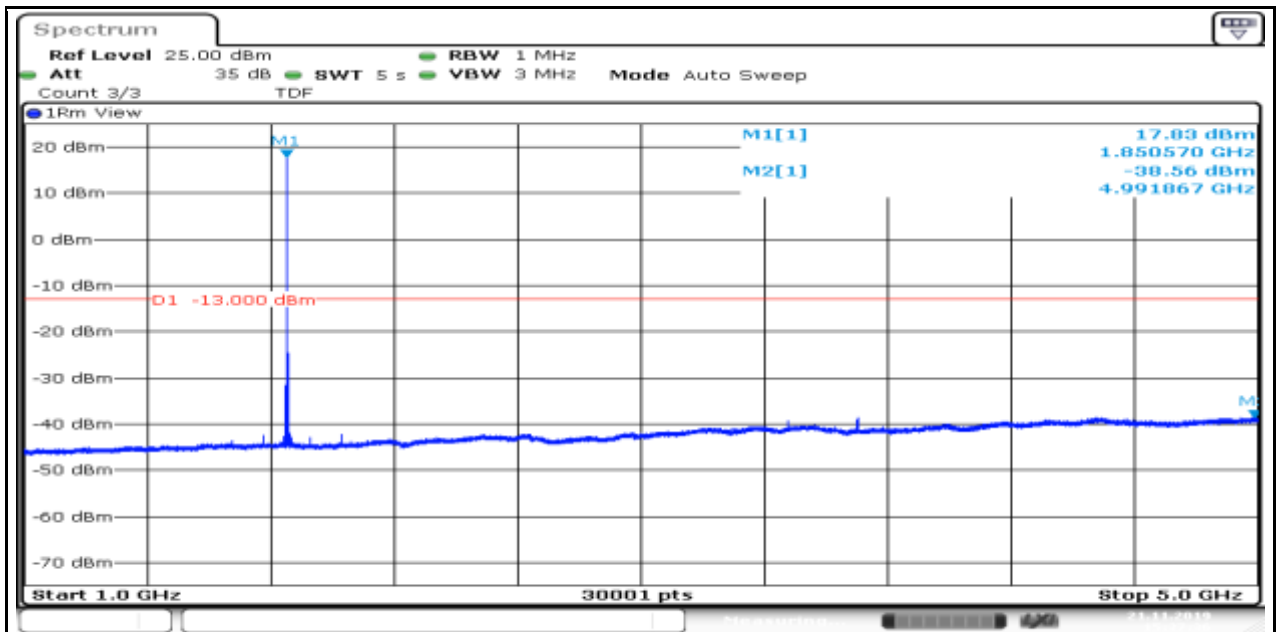


Band25_1.4MHz_QPSK_26047_6_0_Low_5000_12000_-47.41_PASS_

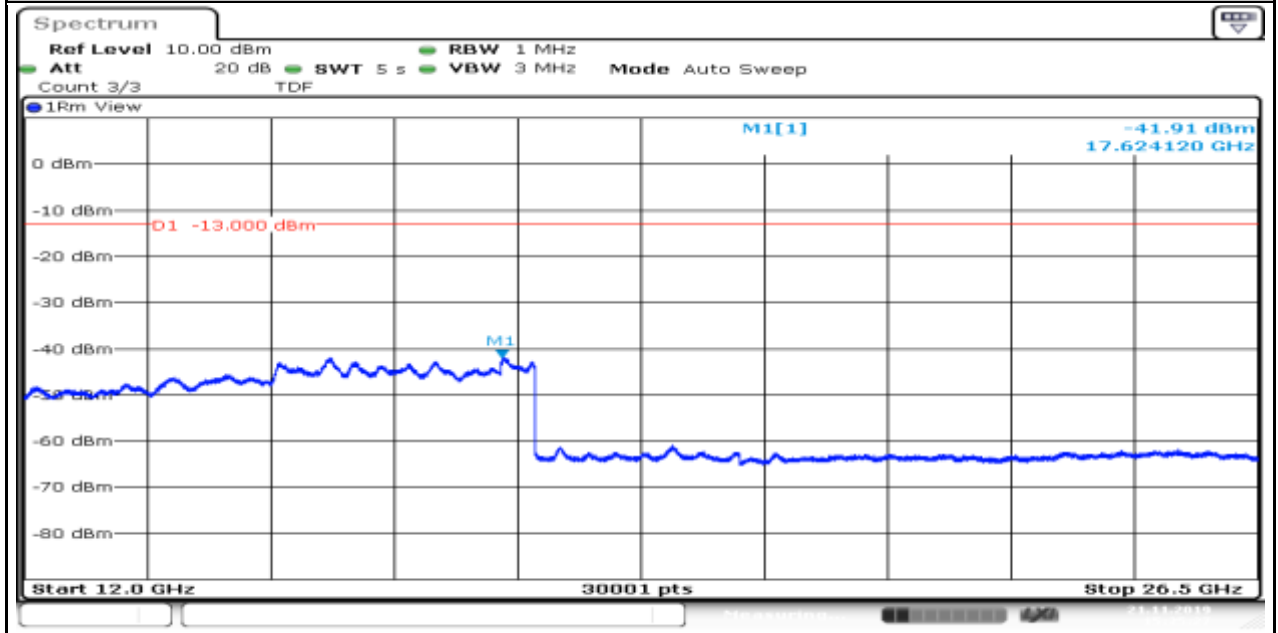


Band25_1.4MHz_QPSK_26047_6_0_Low_1000_5000_-38.56_PASS_

Produkte
Products

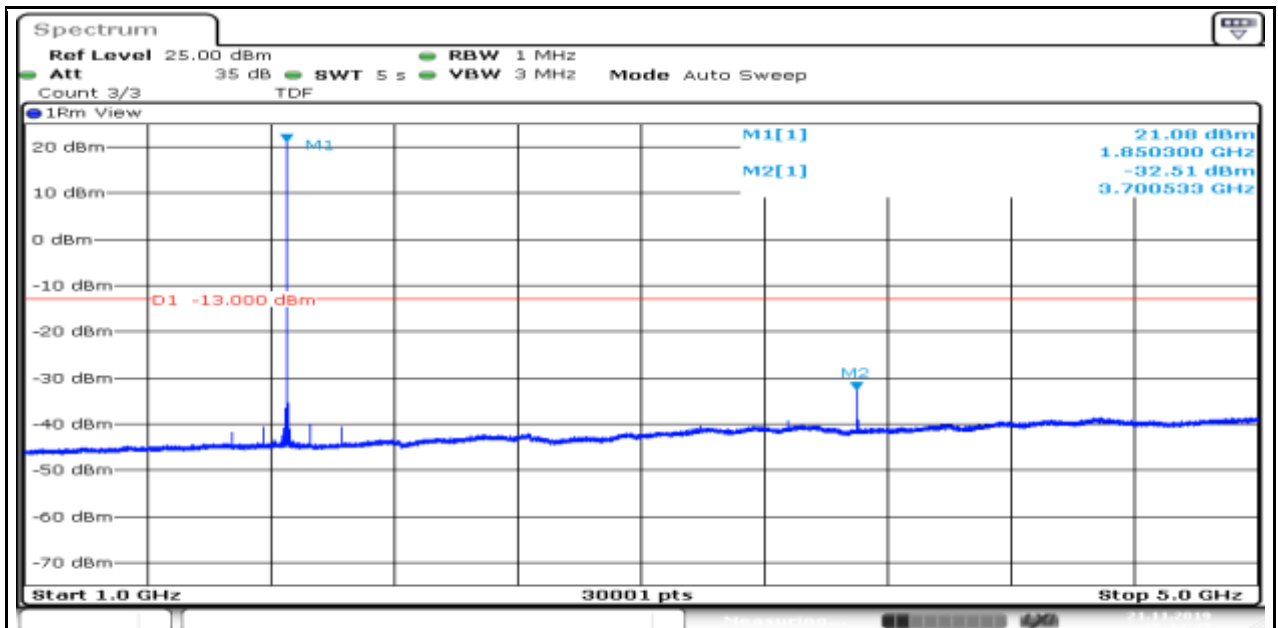


Band25_1.4MHz_QPSK_26047_1_0_Low_12000_26500_-41.91_PASS_



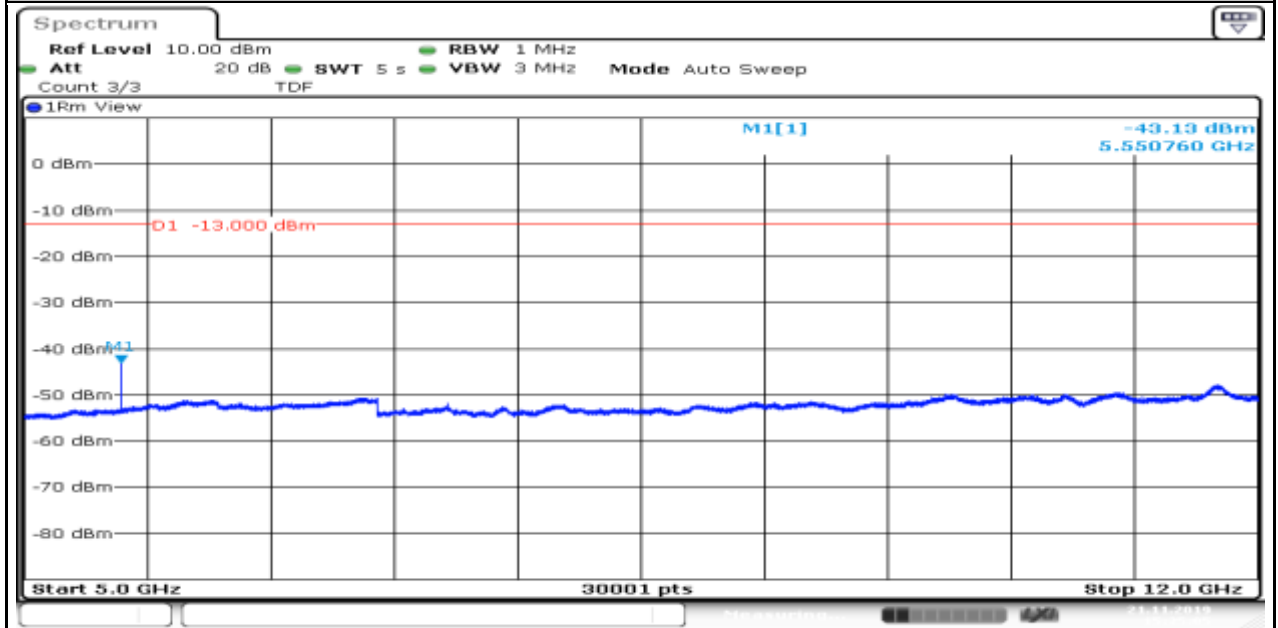
Band25_1.4MHz_QPSK_26047_1_0_Low_1000_5000_-32.51_PASS_

Produkte
Products



Date: 21.NOV.2019 15:34:44

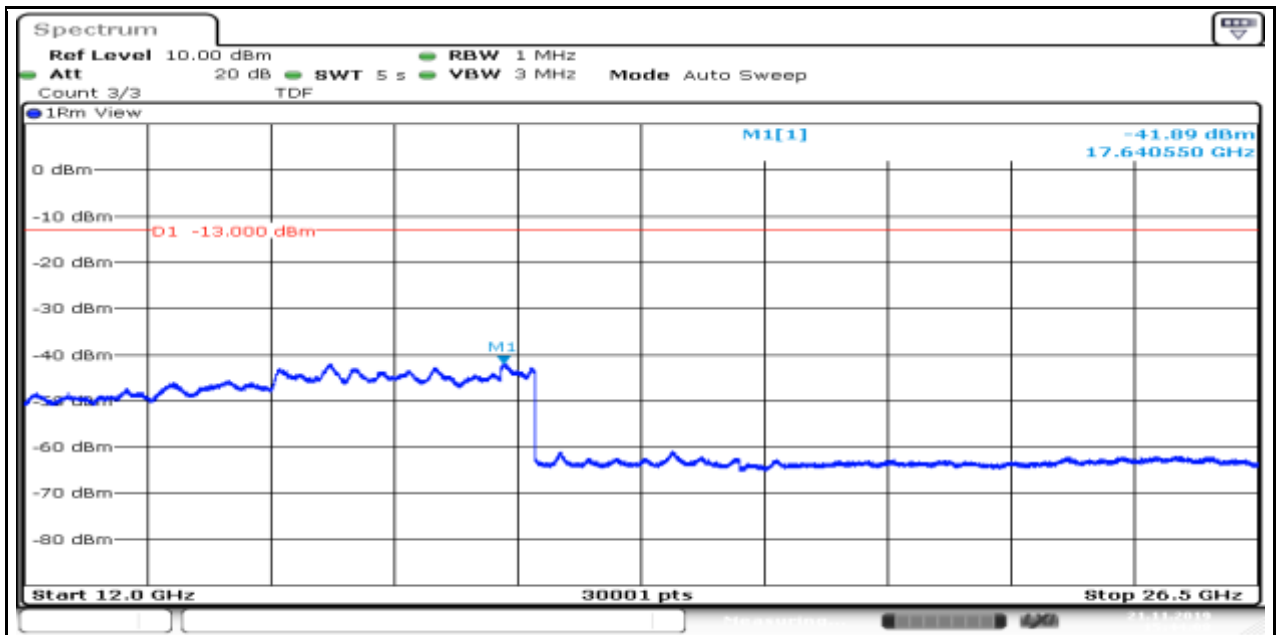
Band25_1.4MHz_QPSK_26047_1_0_Low_5000_12000_-43.13_PASS_



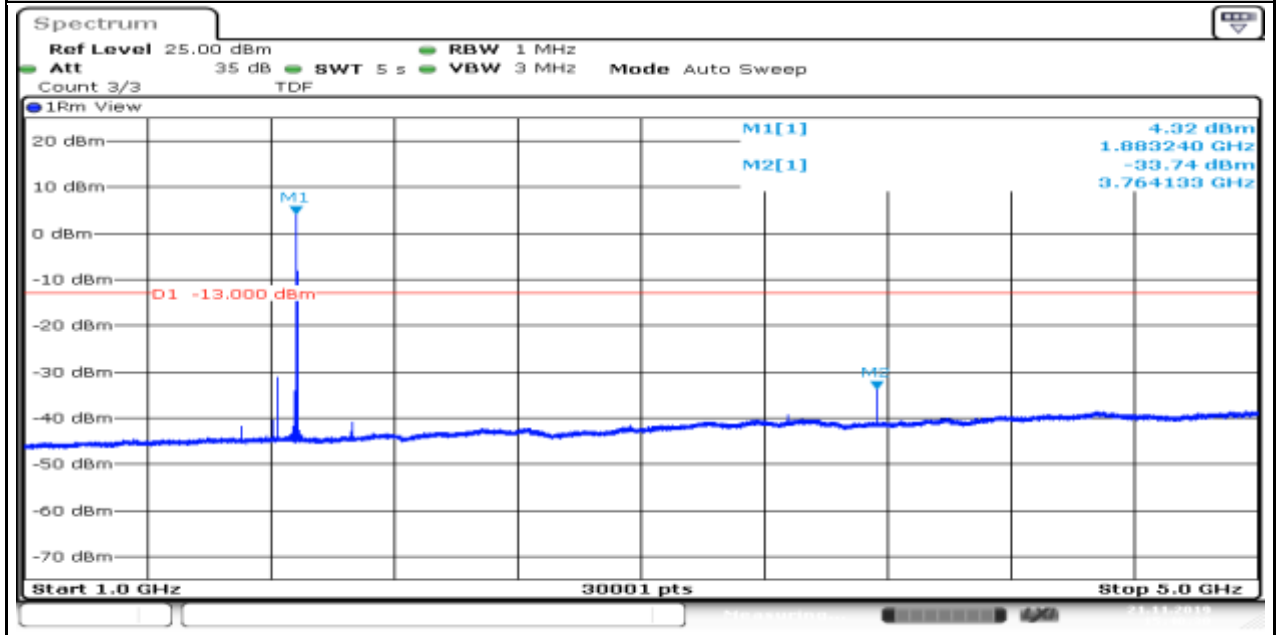
Date: 21.NOV.2019 15:35:06

Band25_1.4MHz_QPSK_26365_6_0_Low_12000_26500_-41.89_PASS_

Produkte
Products

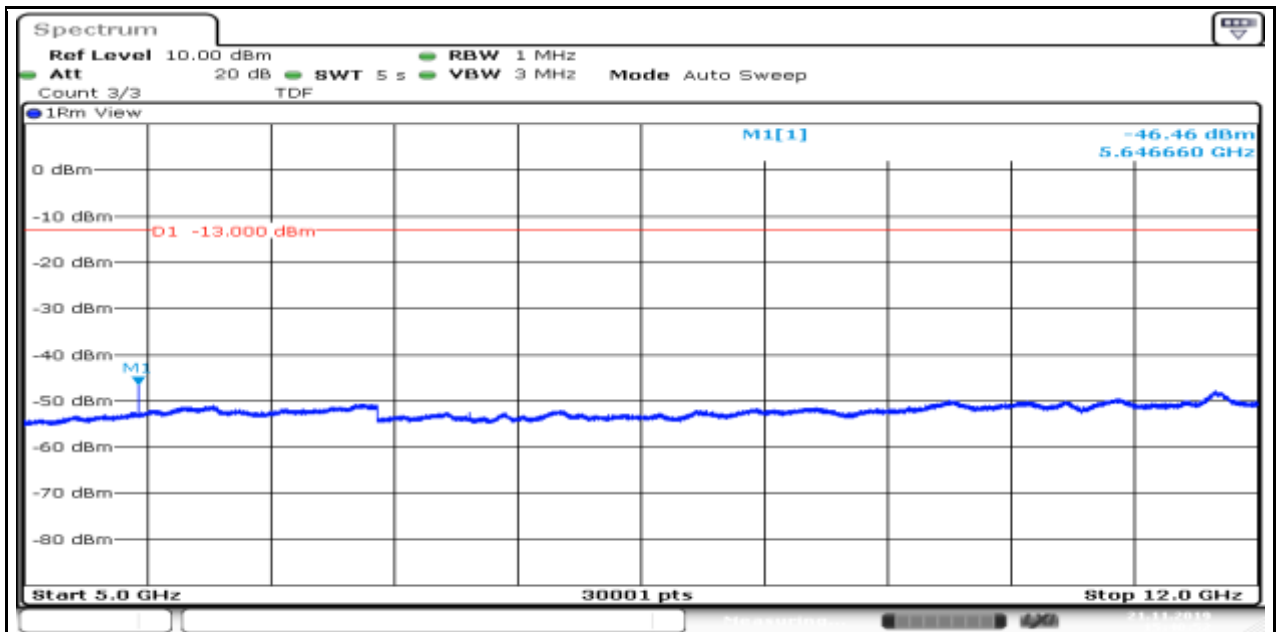


Band25_1.4MHz_QPSK_26365_1_0_Low_1000_5000_-33.74_PASS_



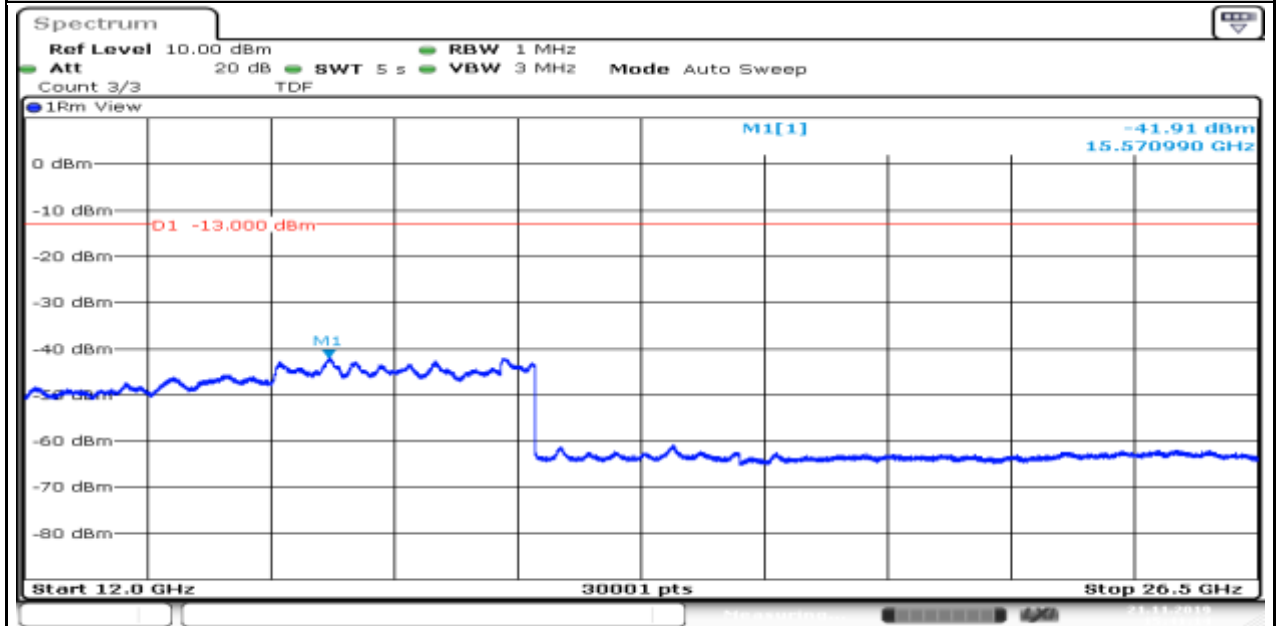
Band25_1.4MHz_QPSK_26365_1_0_Low_5000_12000_-46.46_PASS_

Produkte
Products



Date: 21.NOV.2019 15:40:53

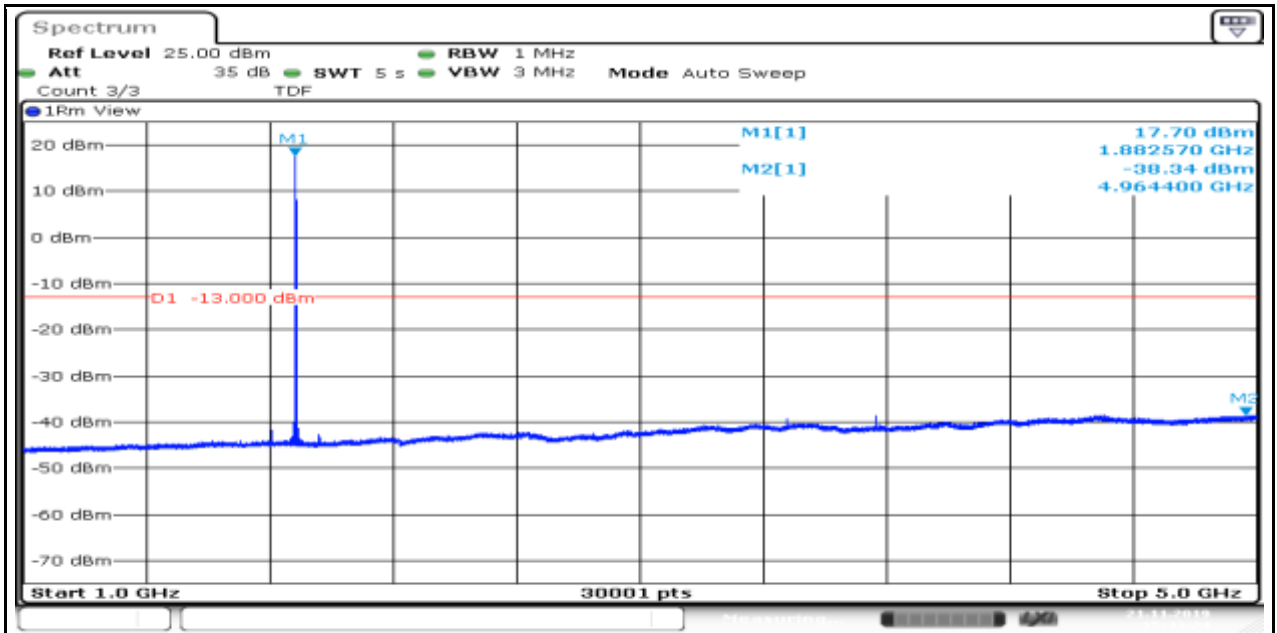
Band25_1.4MHz_QPSK_26365_1_0_Low_12000_26500_-41.91_PASS_



Date: 21.NOV.2019 15:41:15

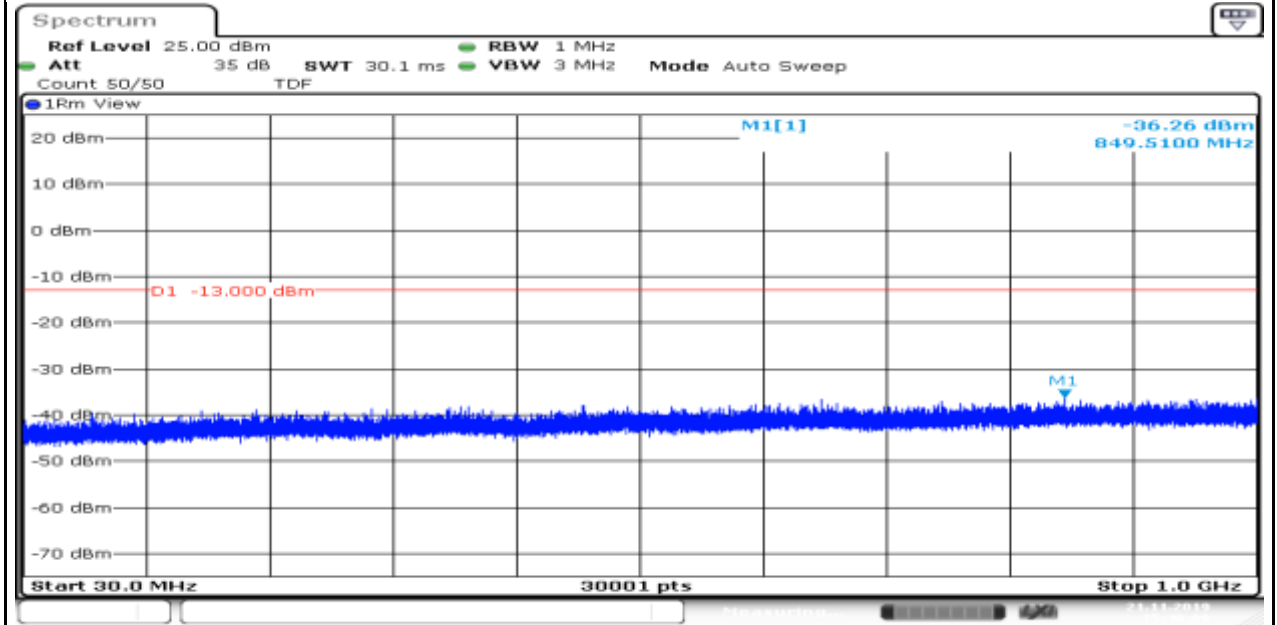
Band25_1.4MHz_QPSK_26365_6_0_Low_1000_5000_-38.34_PASS_

Produkte
Products



Date: 21.NOV.2019 15:43:25

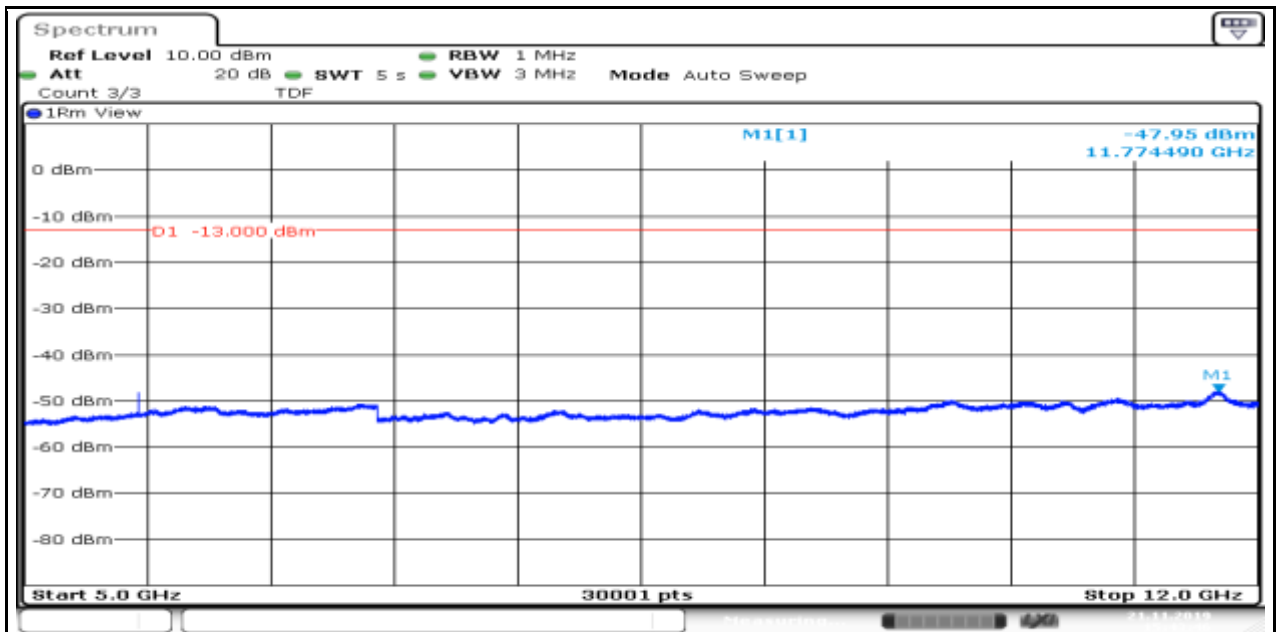
Band25_1.4MHz_QPSK_26365_1_0_Low_30_1000_-36.26_PASS_



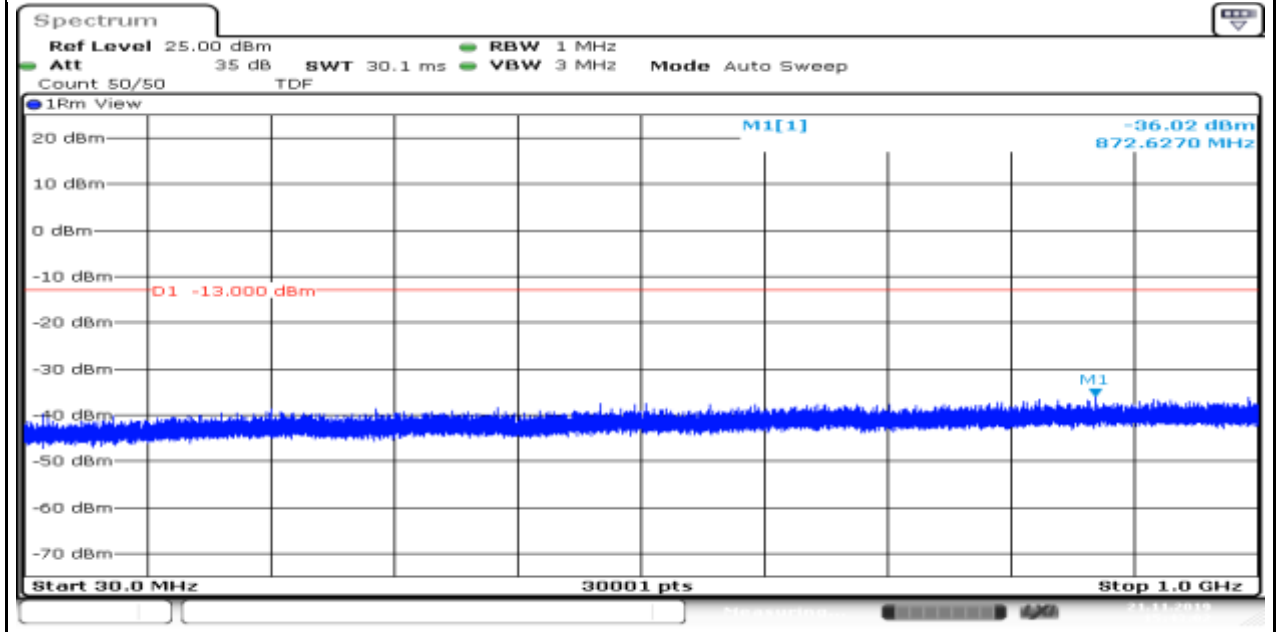
Date: 21.NOV.2019 15:40:08

Band25_1.4MHz_QPSK_26365_6_0_Low_5000_12000_-47.95_PASS_

Produkte
Products

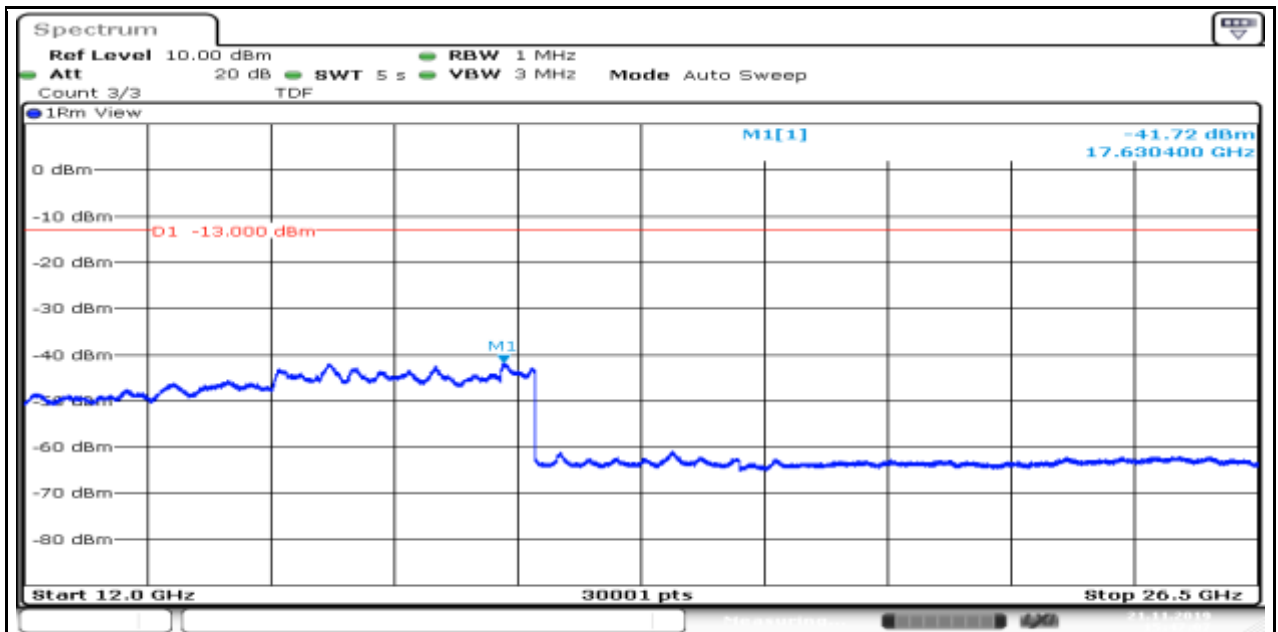


Band25_1.4MHz_QPSK_26365_6_0_Low_30_1000_-36.02_PASS_

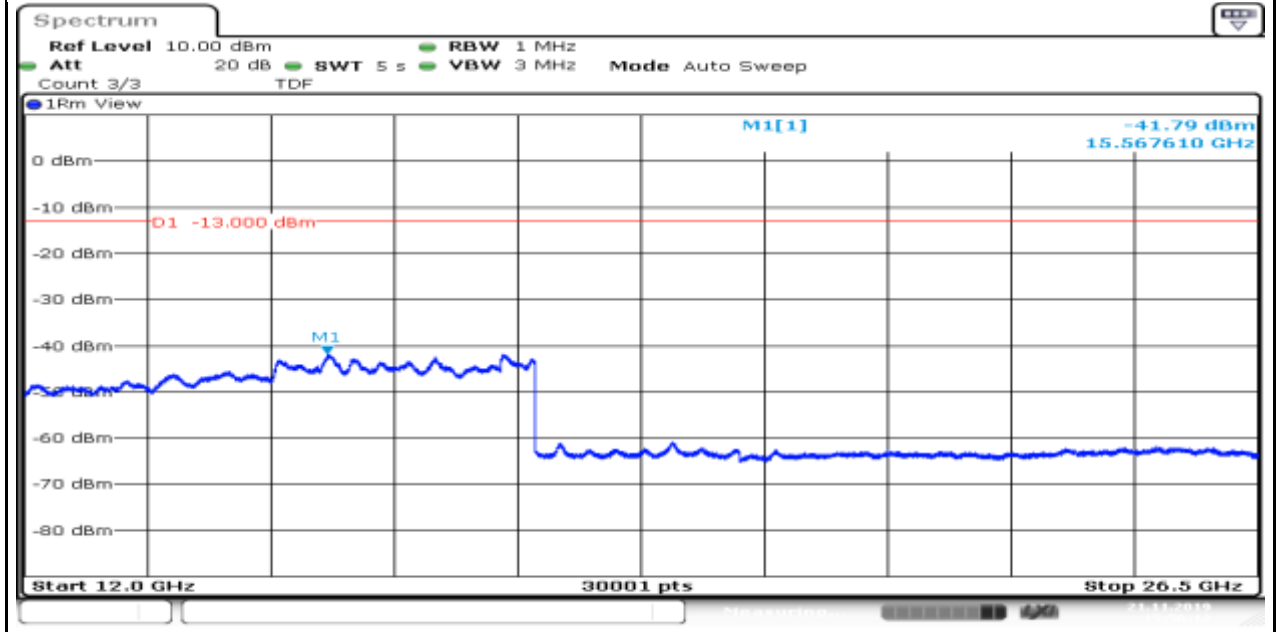


Band25_1.4MHz_QPSK_26683_1_5_Low_12000_26500_-41.72_PASS_

Produkte
Products

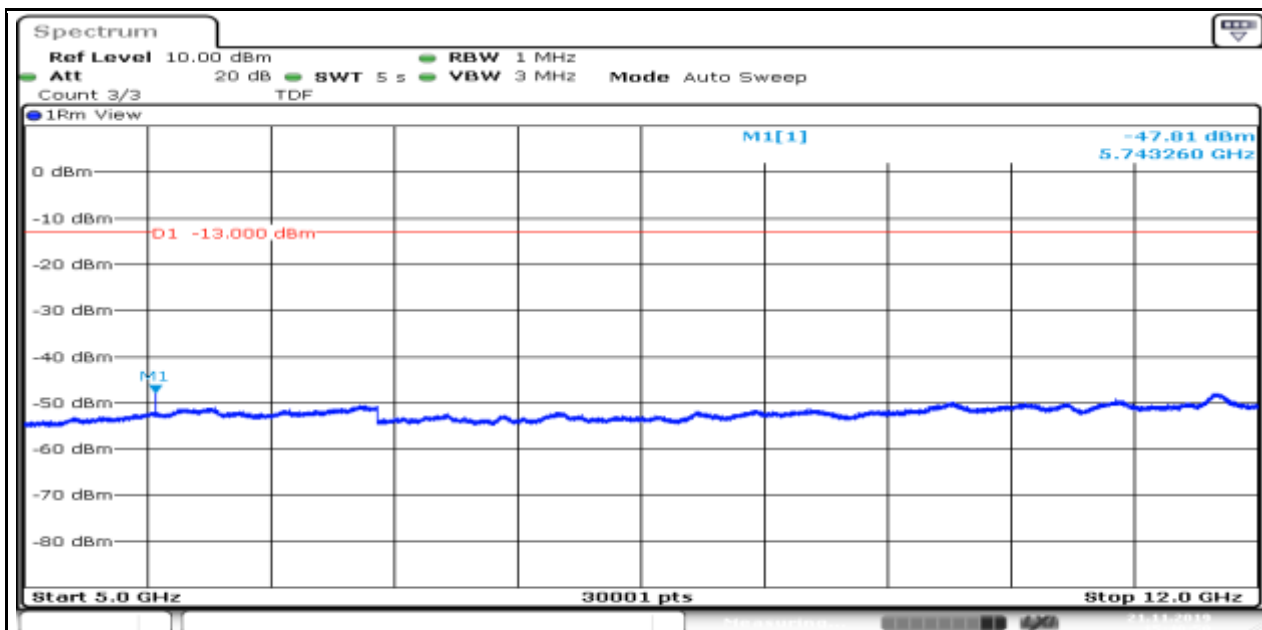


Band25_1.4MHz_QPSK_26683_6_0_Low_12000_26500_-41.79_PASS_

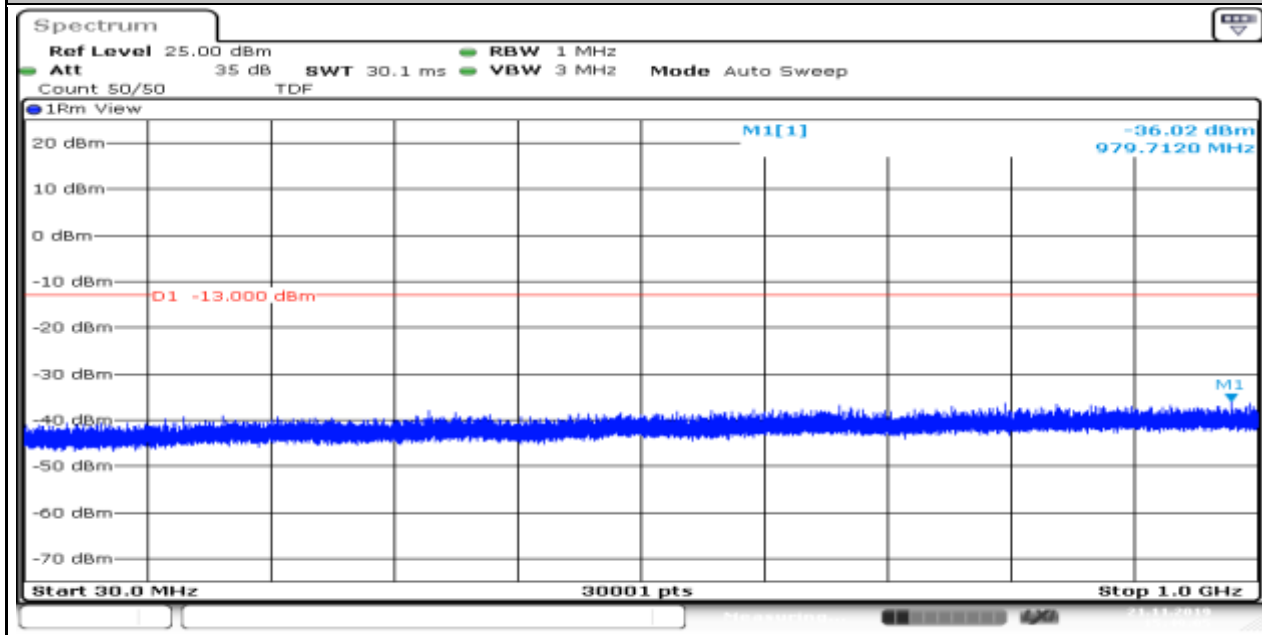


Band25_1.4MHz_QPSK_26683_6_0_Low_5000_12000_-47.81_PASS_

Produkte
Products

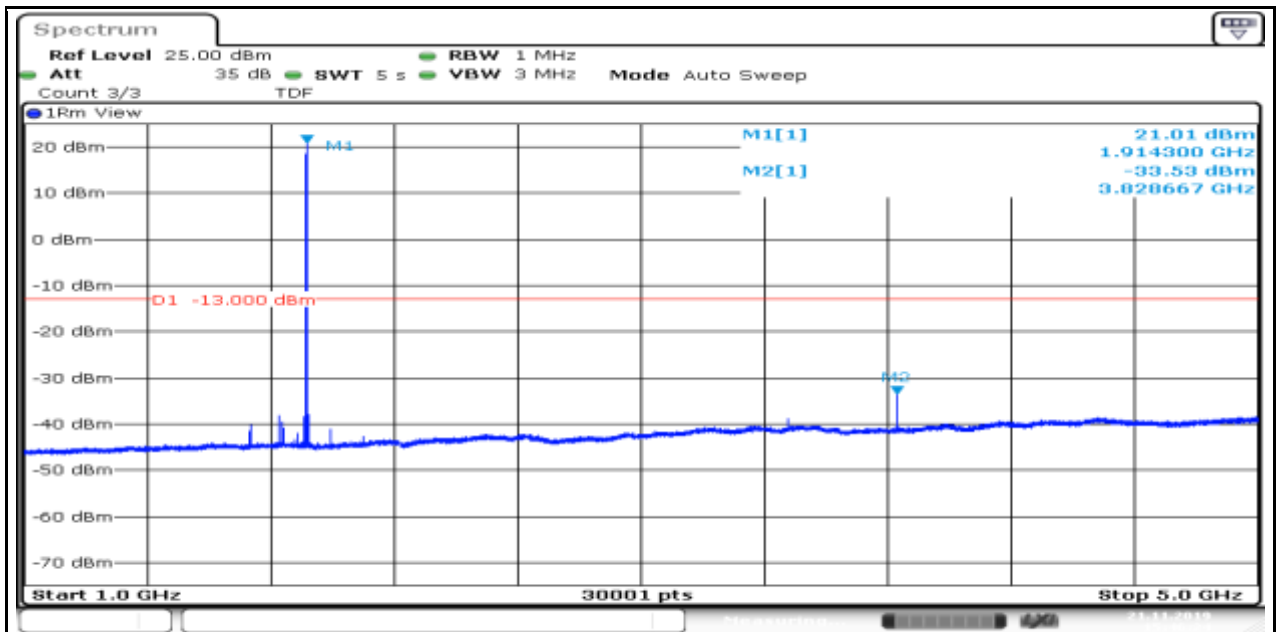


Band25_1.4MHz_QPSK_26683_6_0_Low_30_1000_-36.02_PASS_

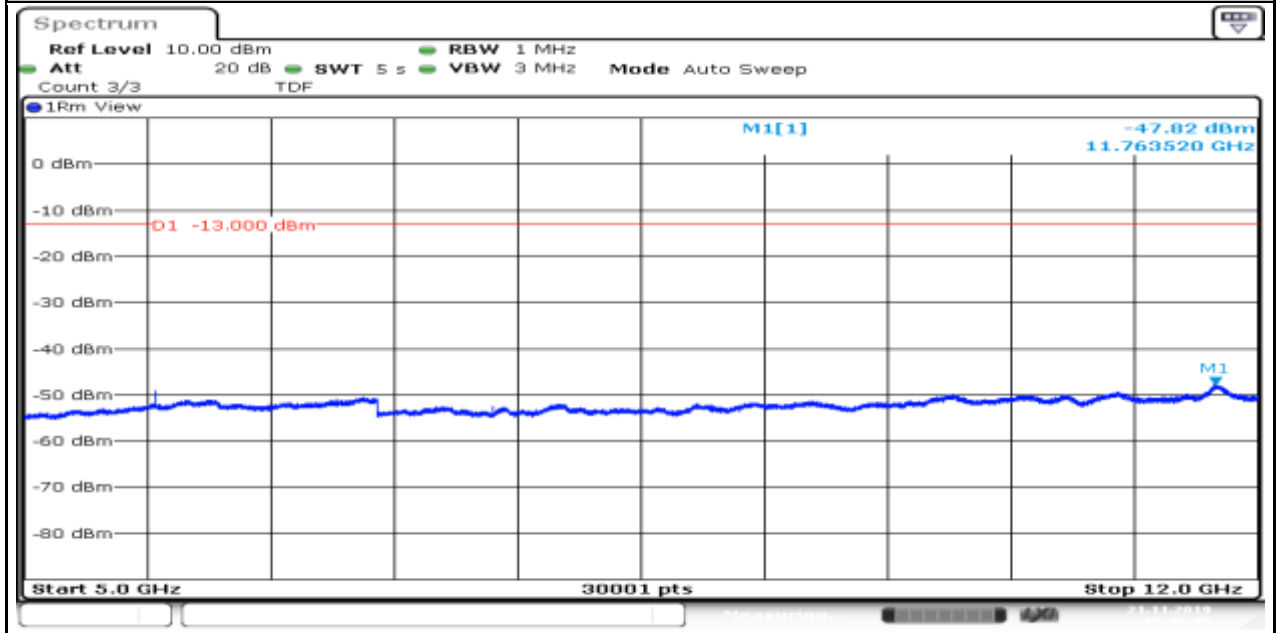


Band25_1.4MHz_QPSK_26683_1_5_Low_1000_5000_-33.53_PASS_

Produkte
Products

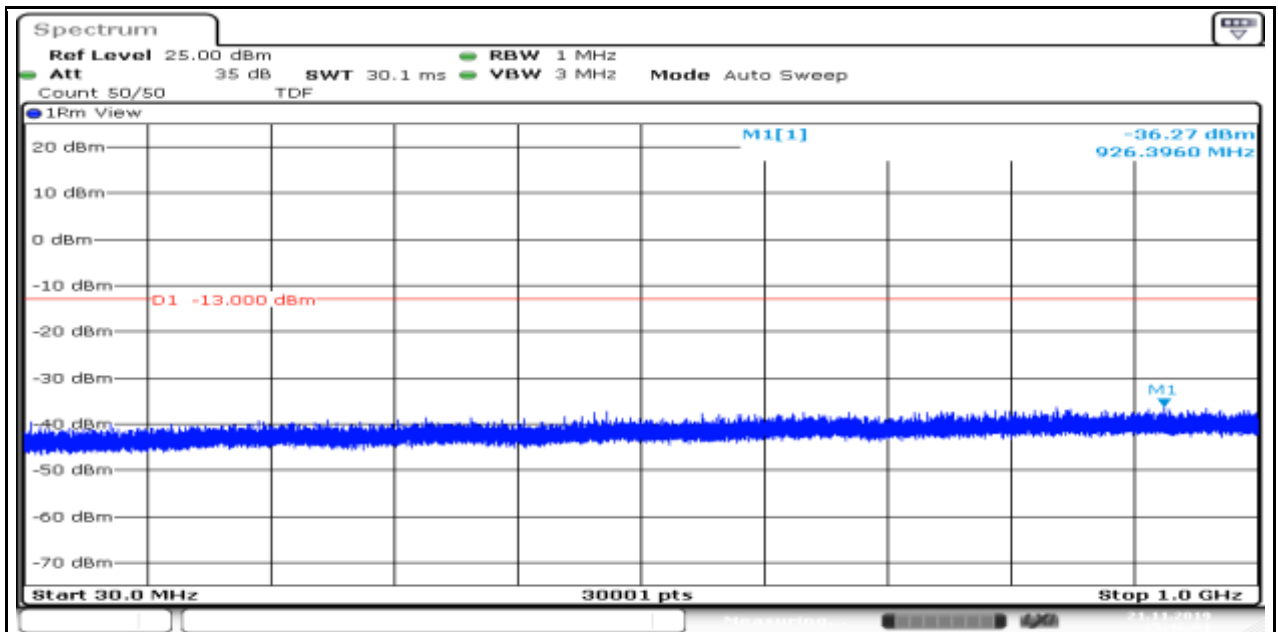


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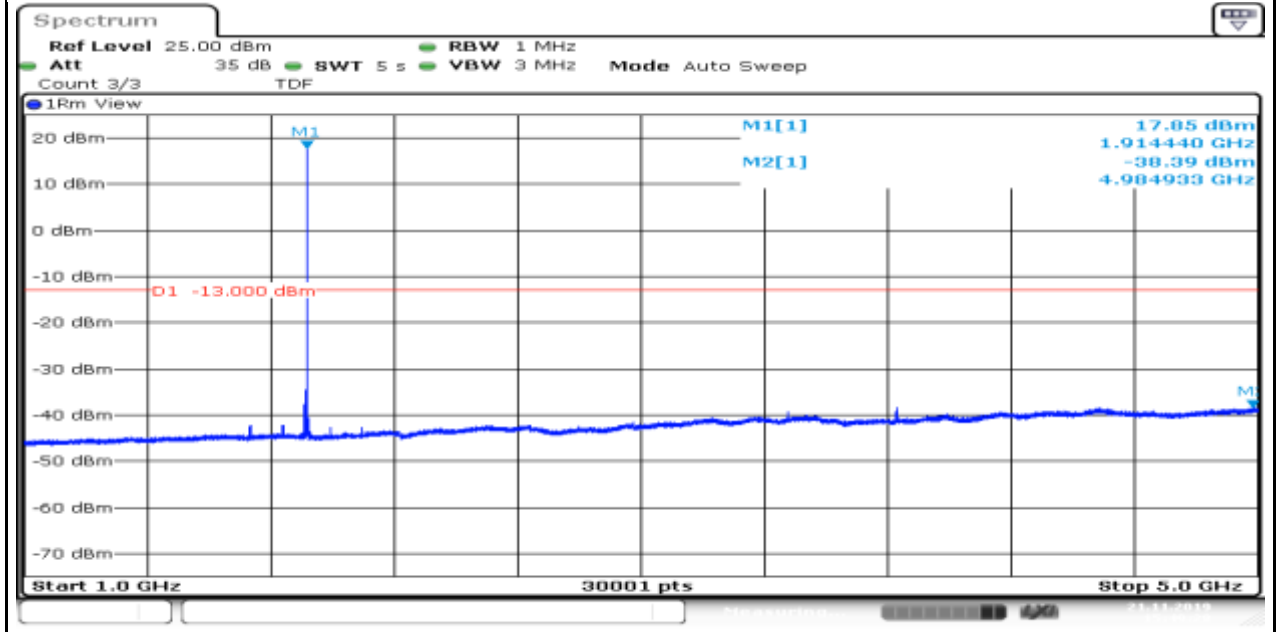


Band25_1.4MHz_QPSK_26683_1_5_Low_30_1000_-36.27_PASS_

Produkte
Products

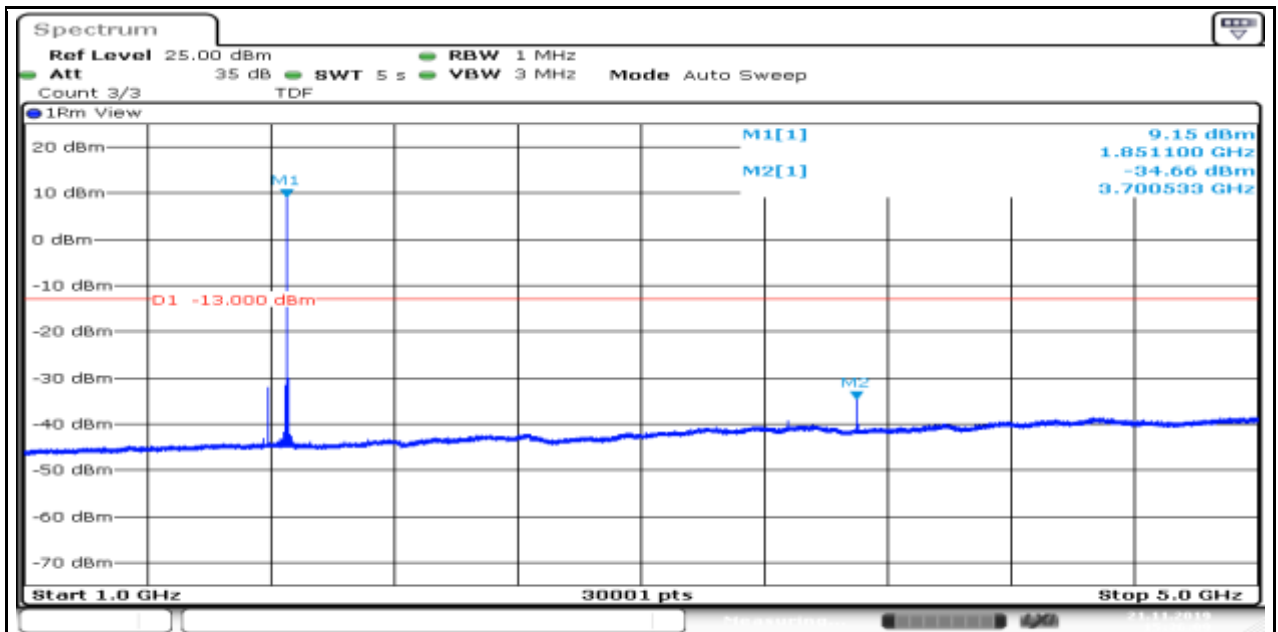


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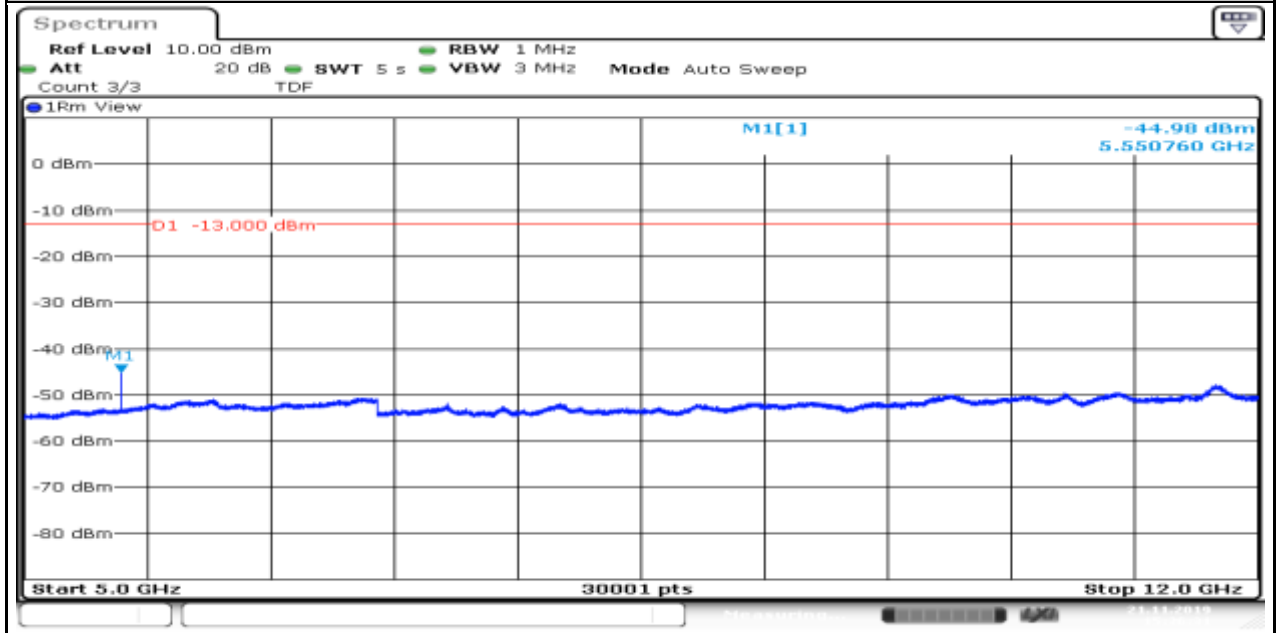


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Produkte
Products

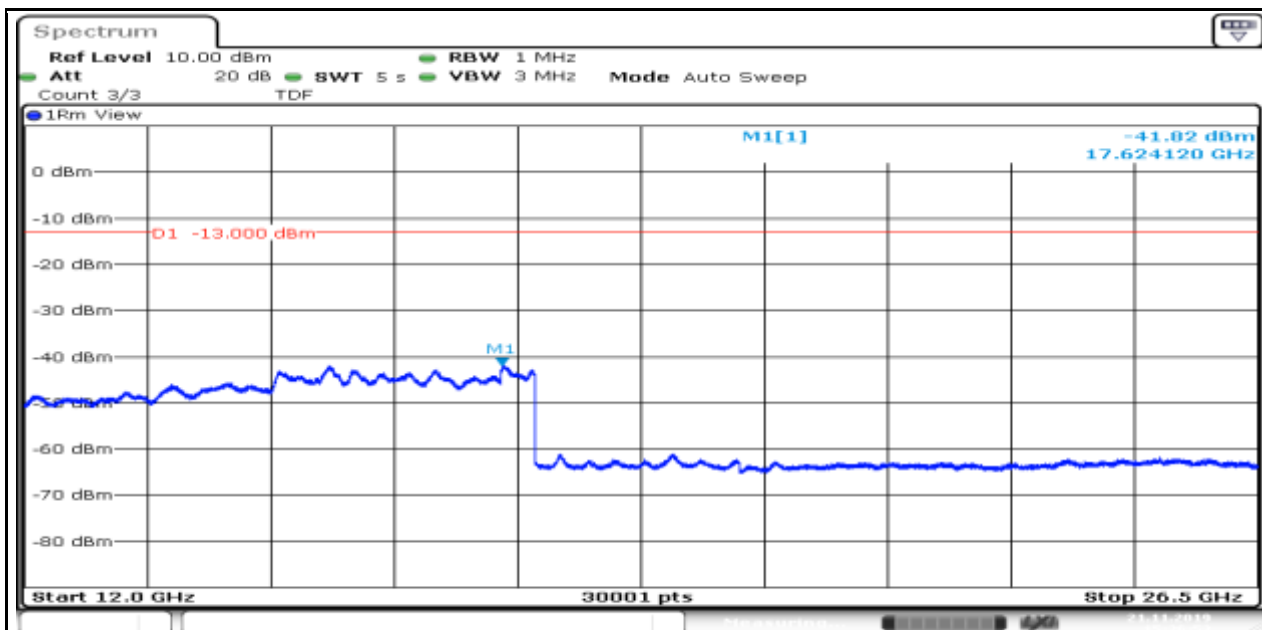


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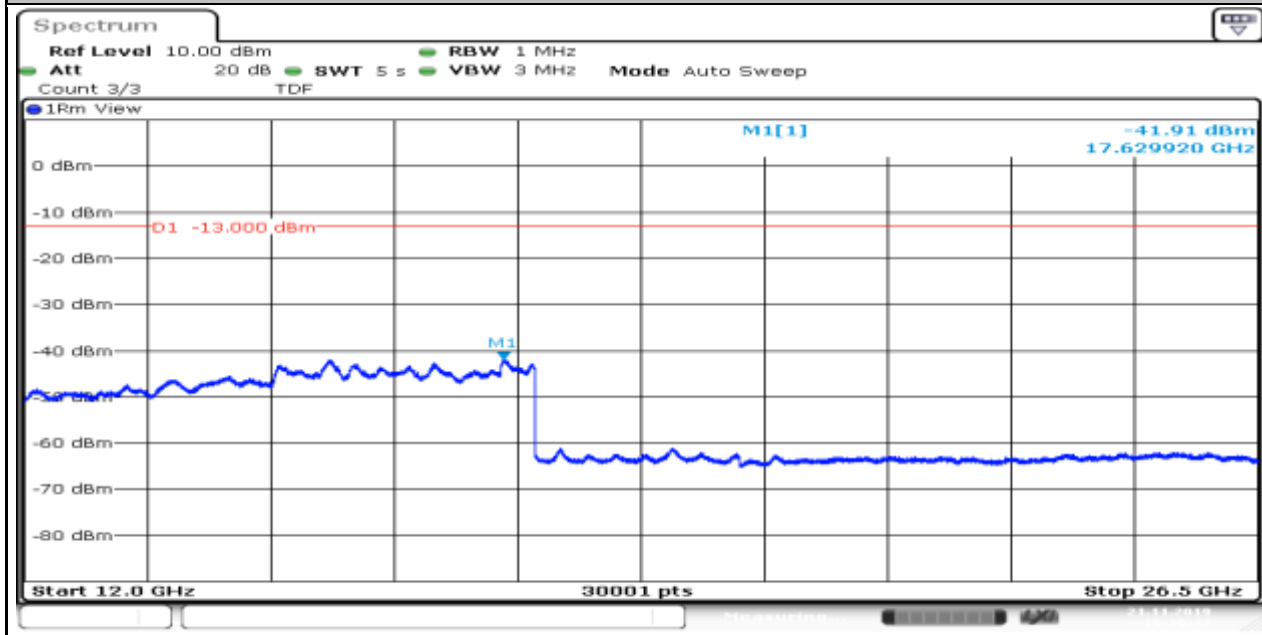


Band25_1.4MHz_16QAM_26047_1_0_Low_12000_26500_-41.82_PASS_

Produkte
Products

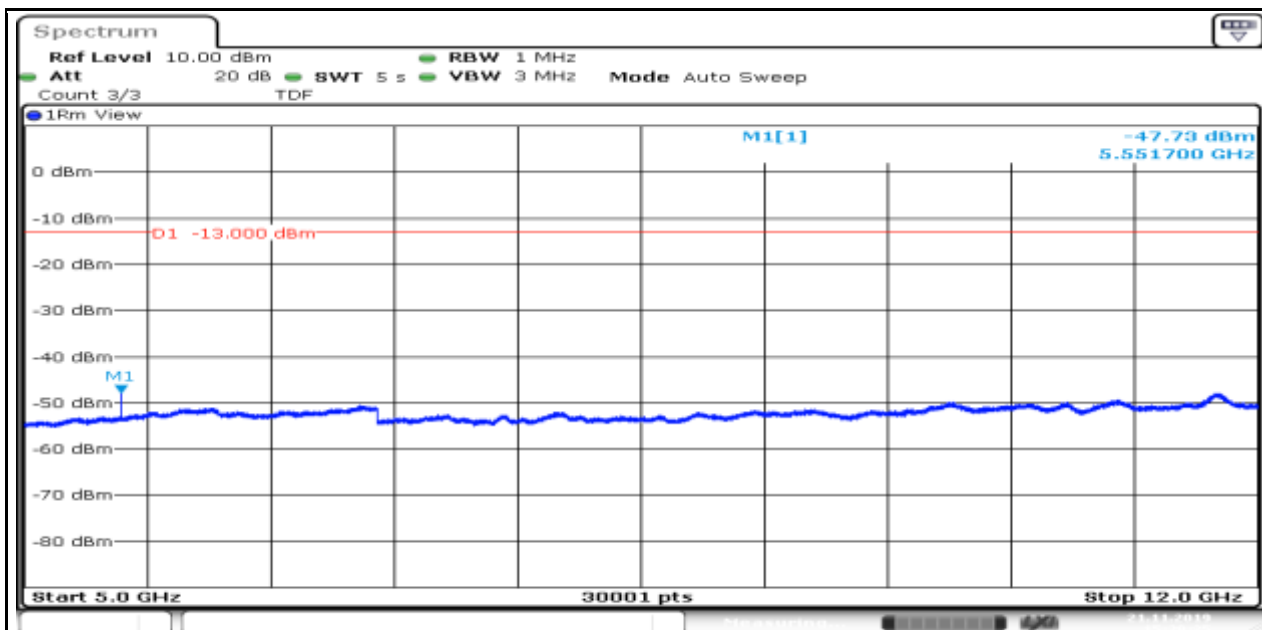


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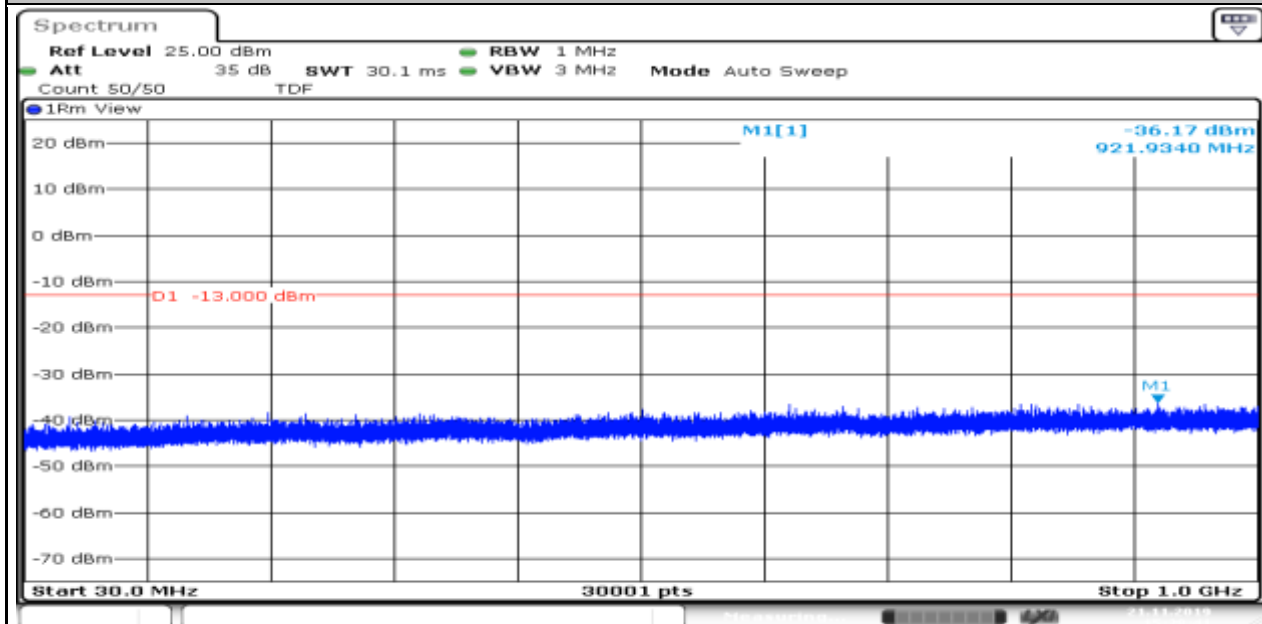
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Produkte
Products



Date: 21.NOV.2019 15:39:26

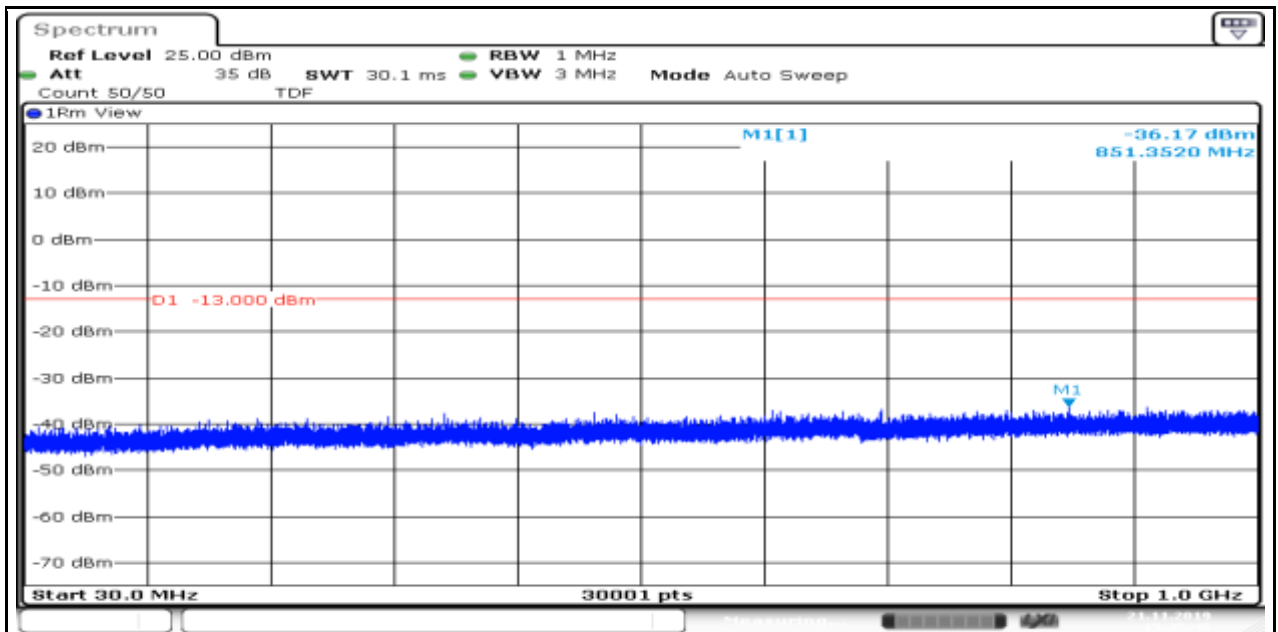
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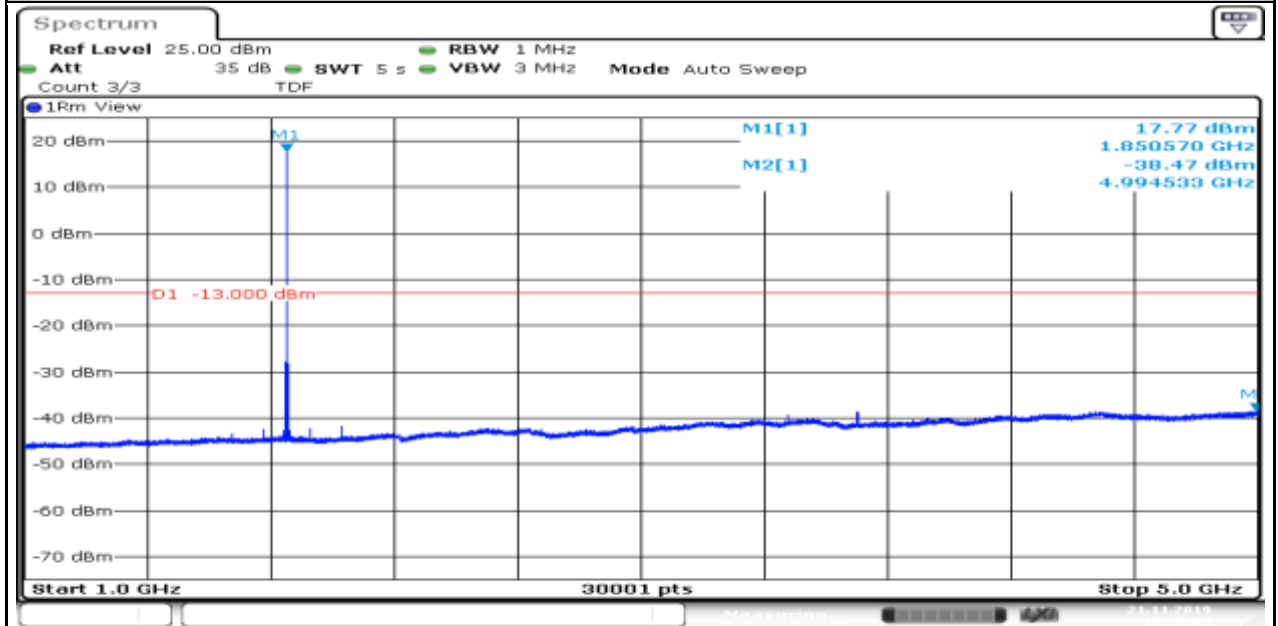
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Produkte
Products



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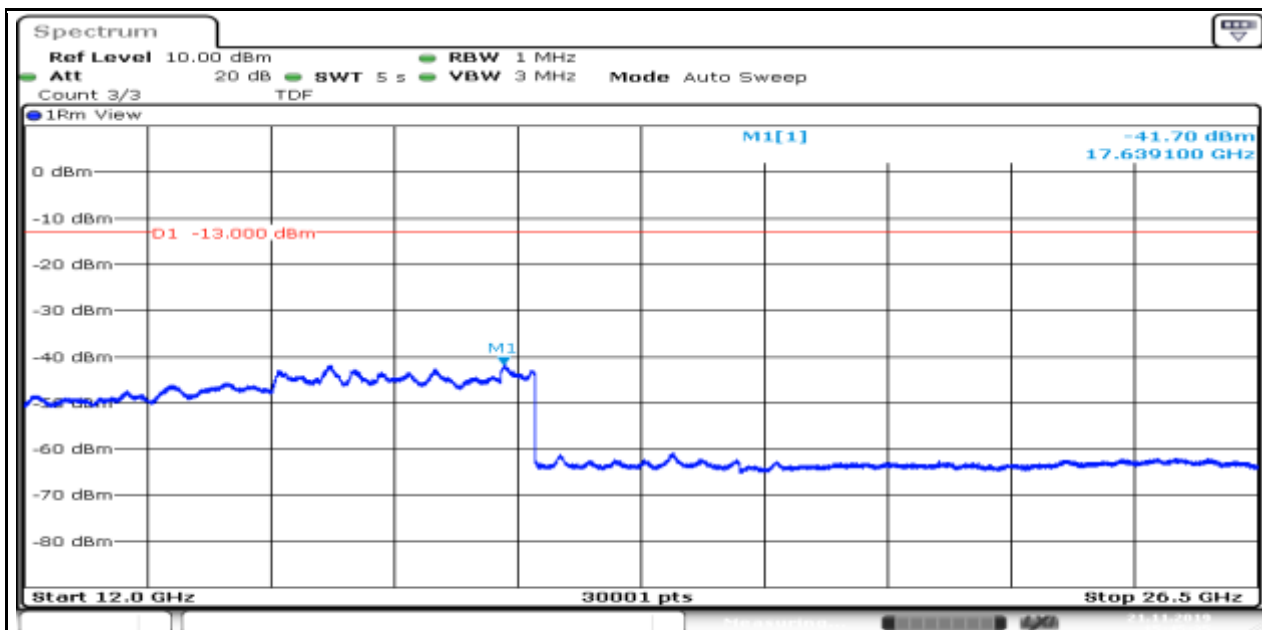
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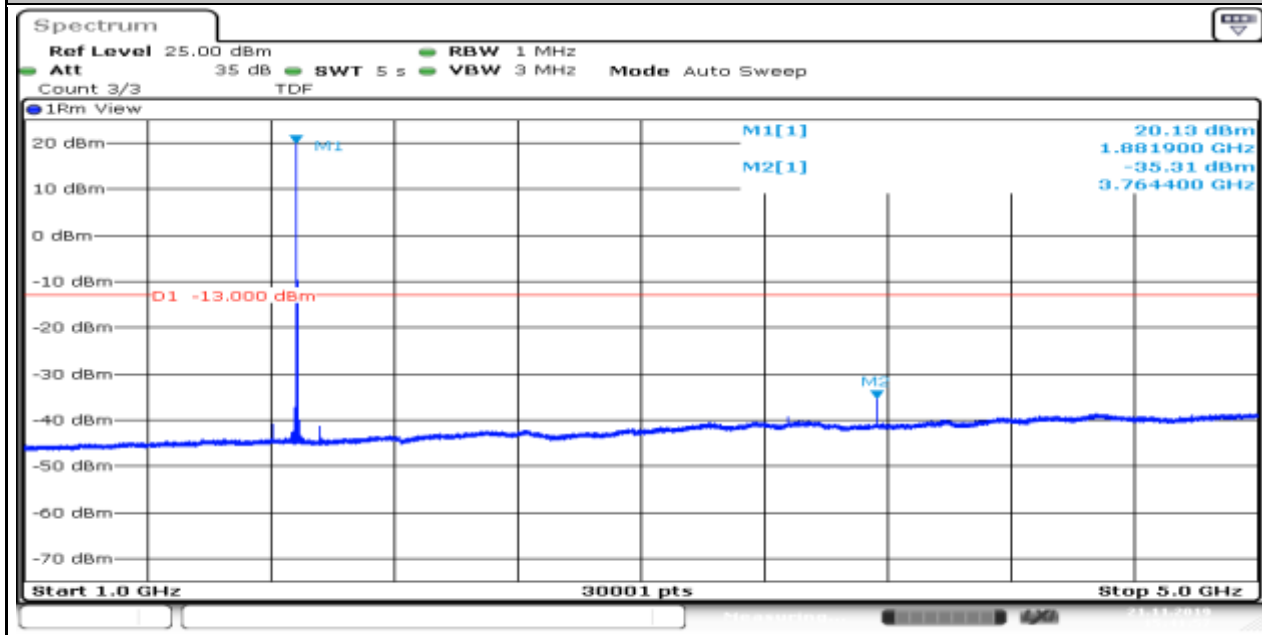
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Produkte
 Products

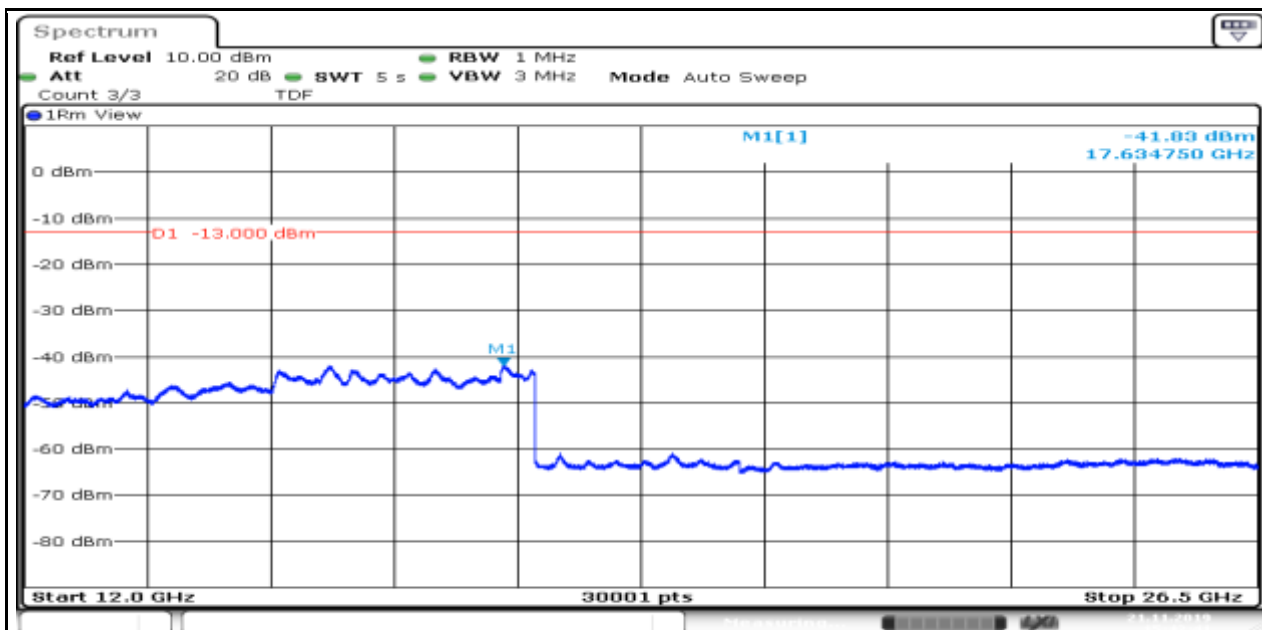


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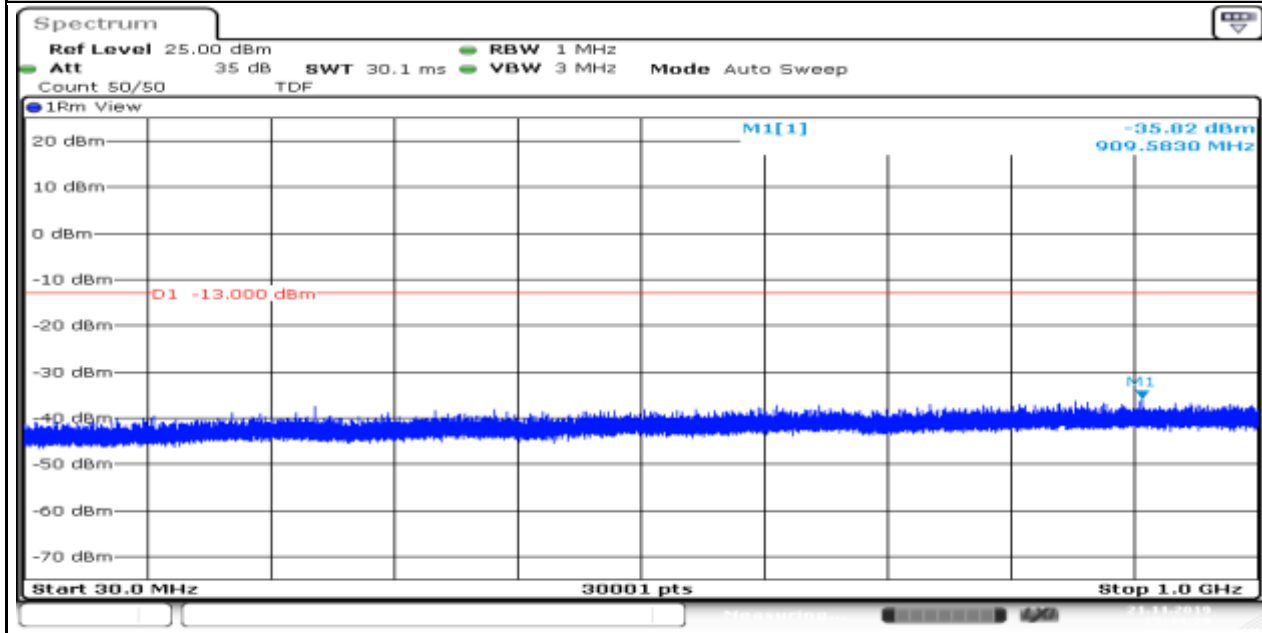


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Produkte
Products

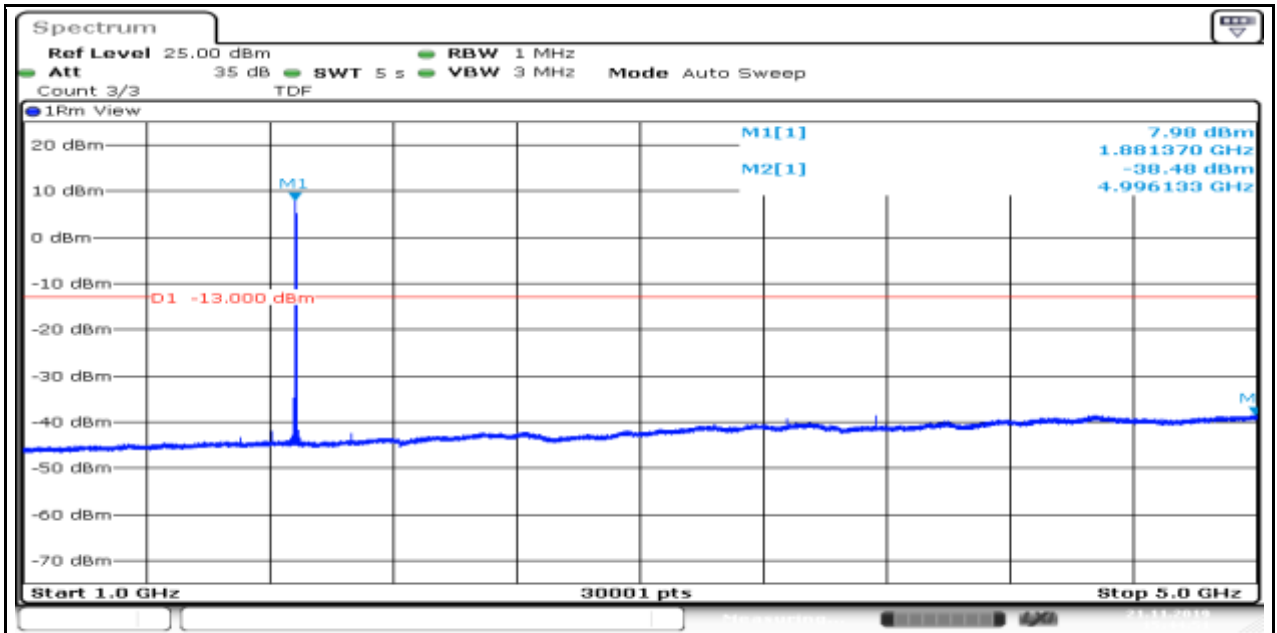


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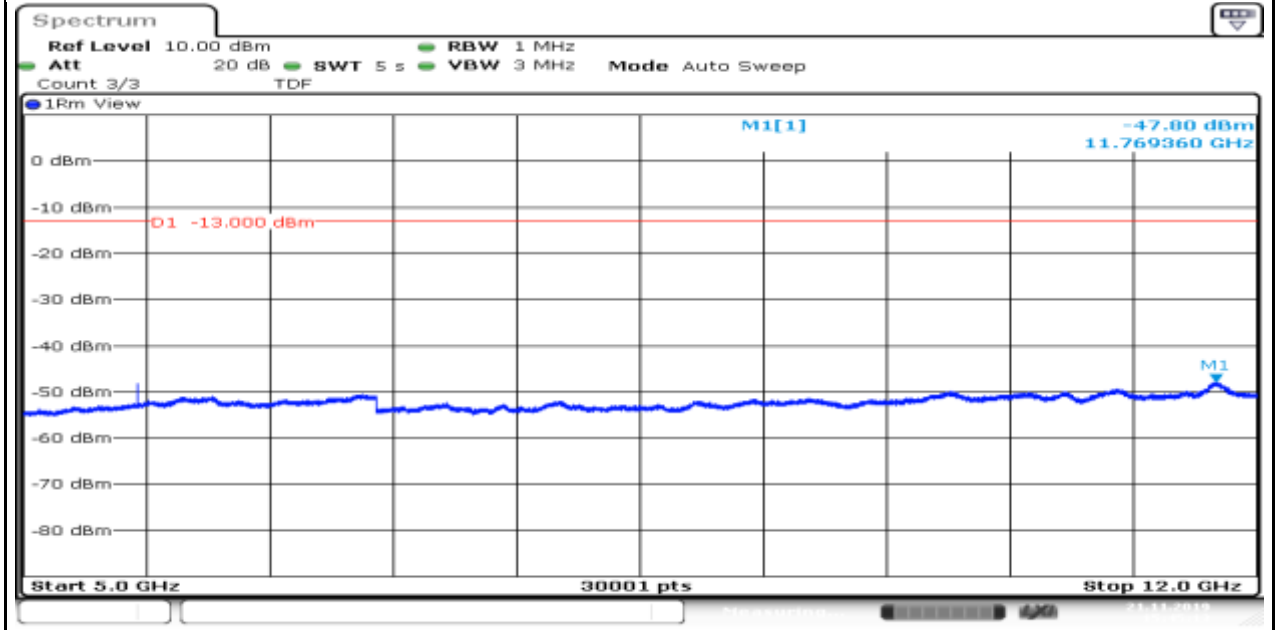


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Produkte
Products

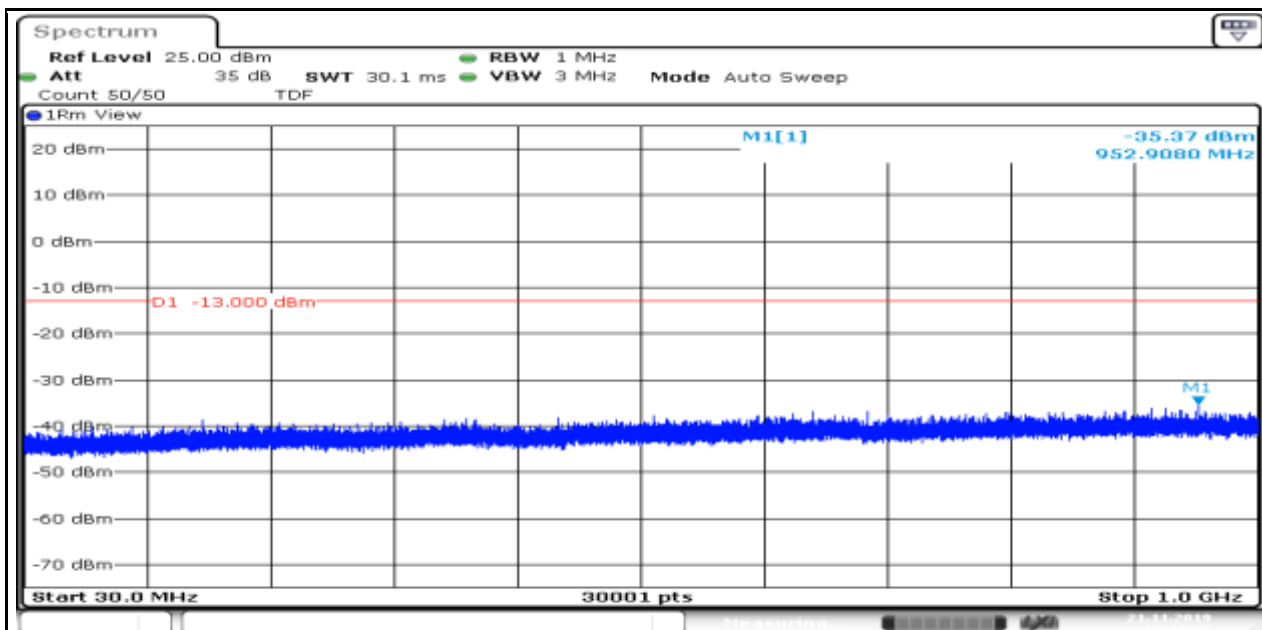


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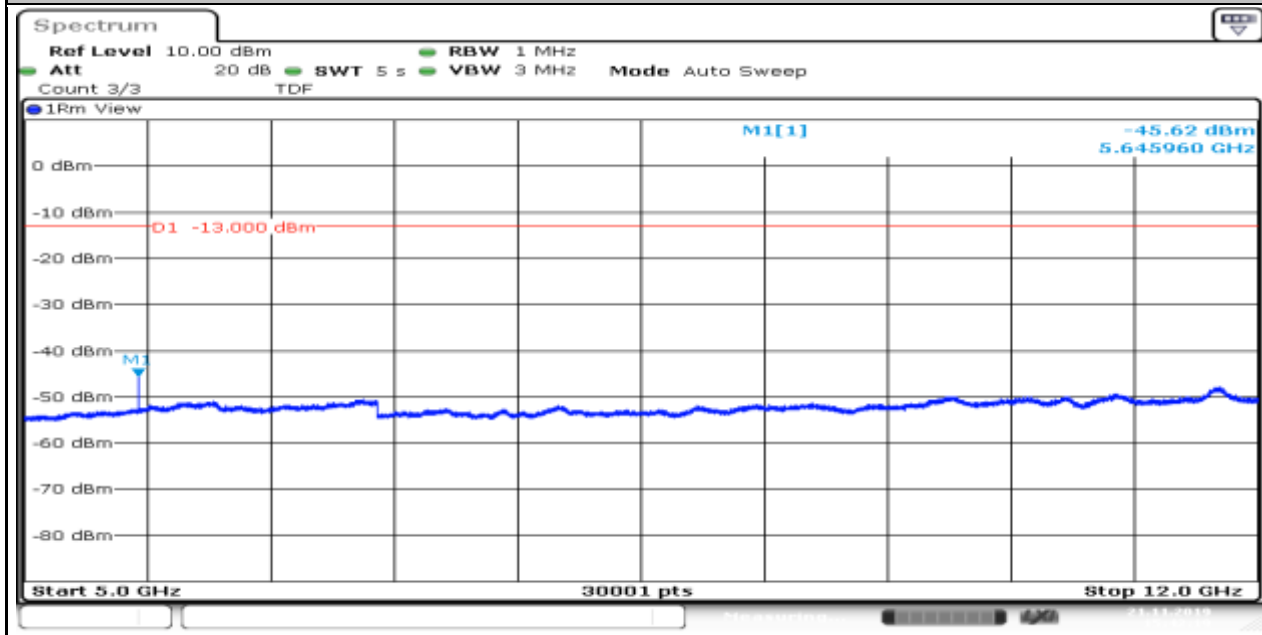


Band25_1.4MHz_16QAM_26365_1_0_Low_30_1000_-35.37_PASS_

Produkte
Products

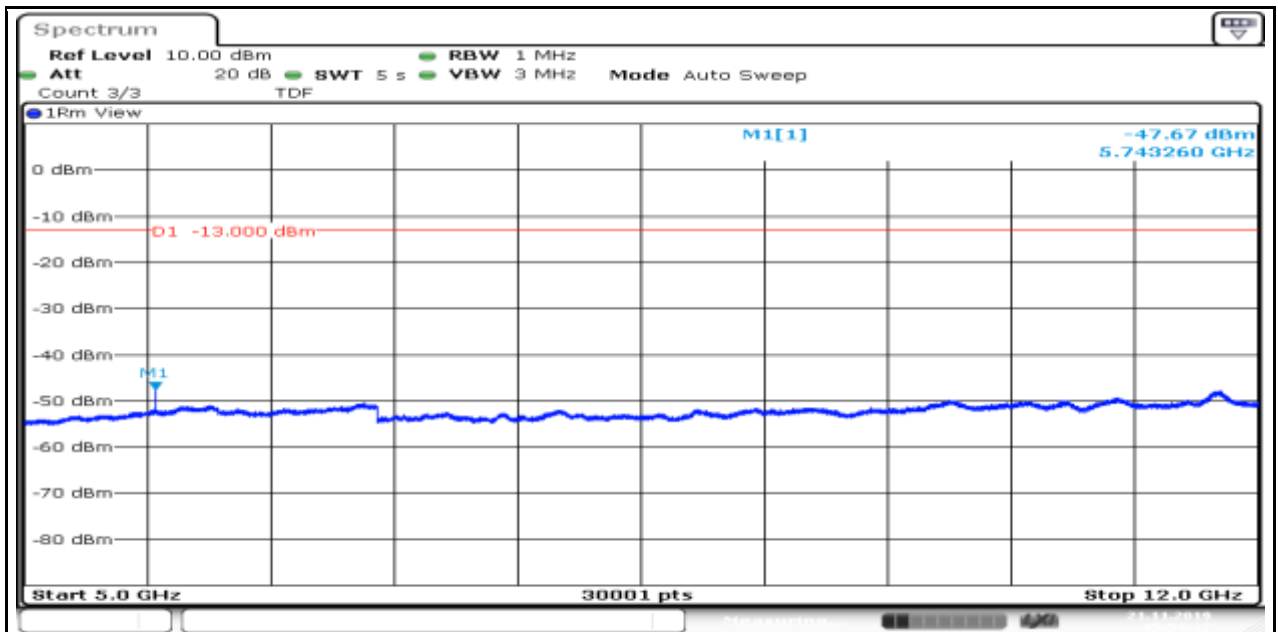


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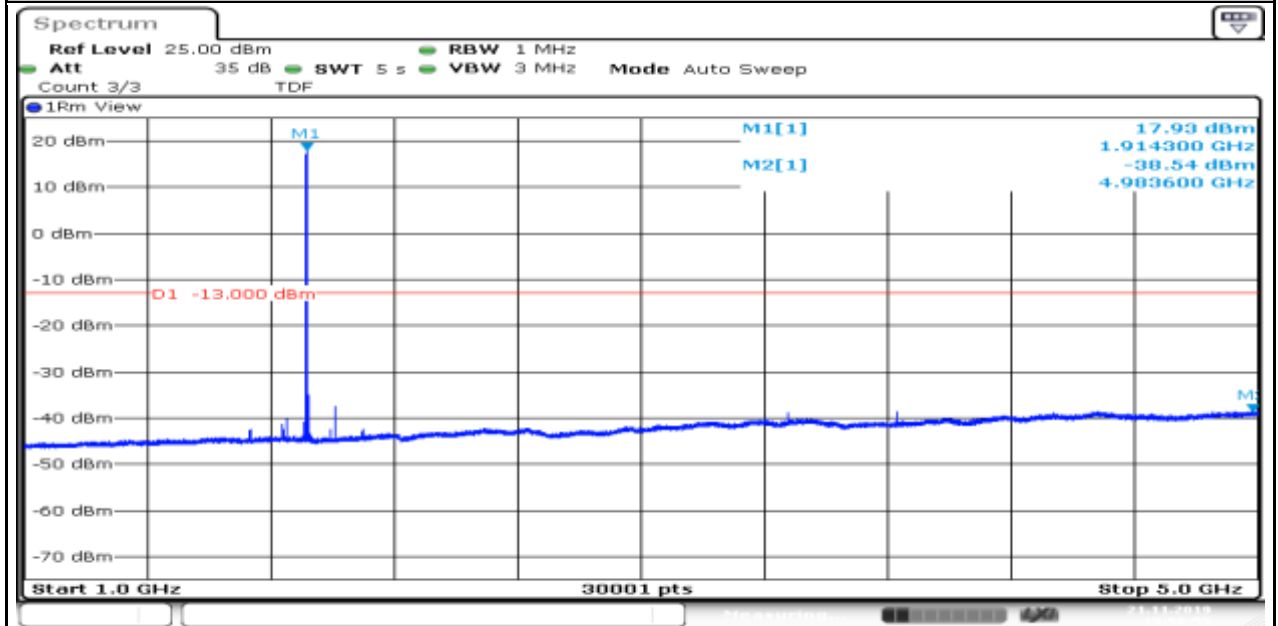
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Produkte
Products



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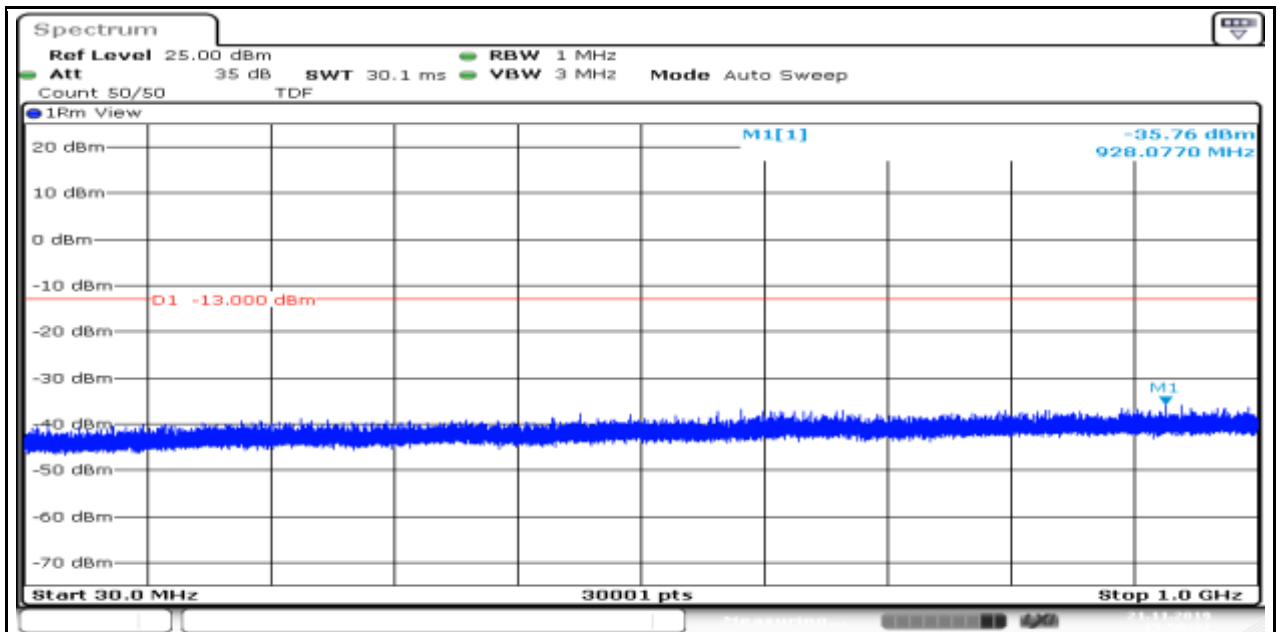
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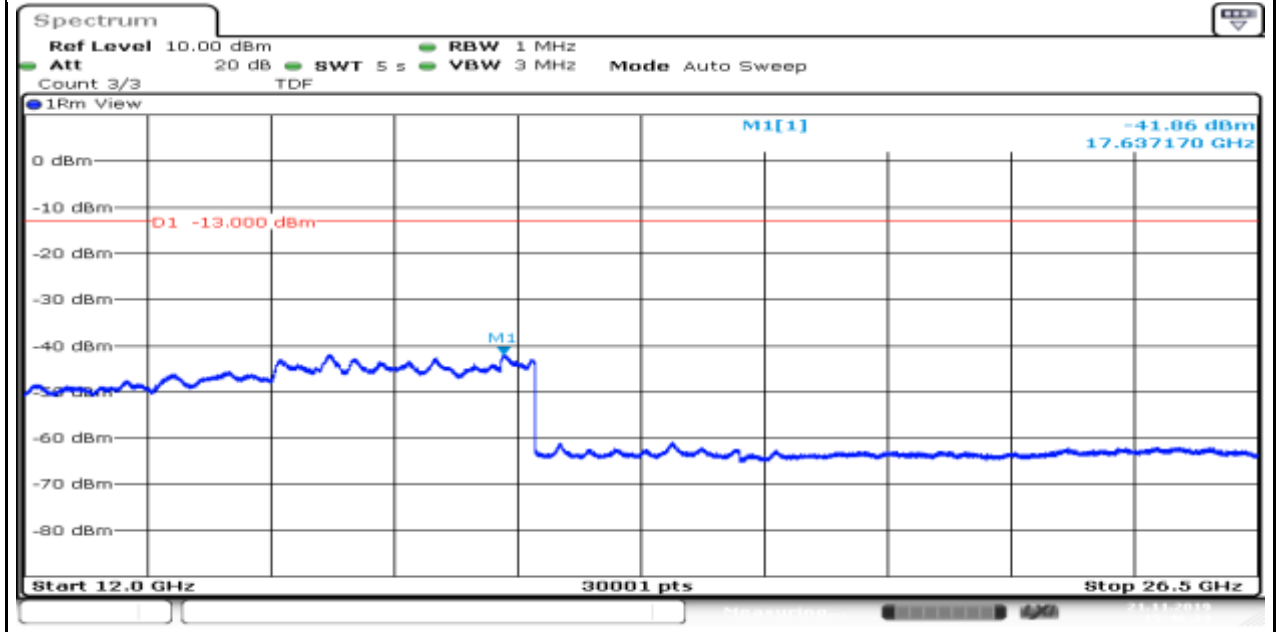
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Produkte
Products

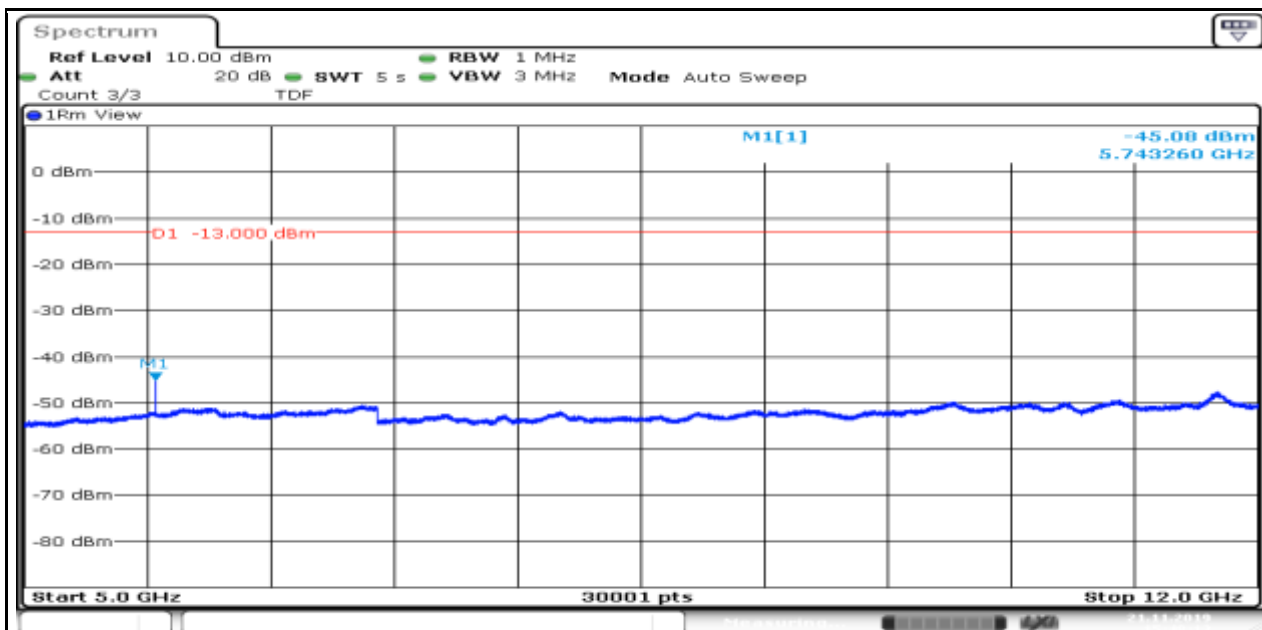


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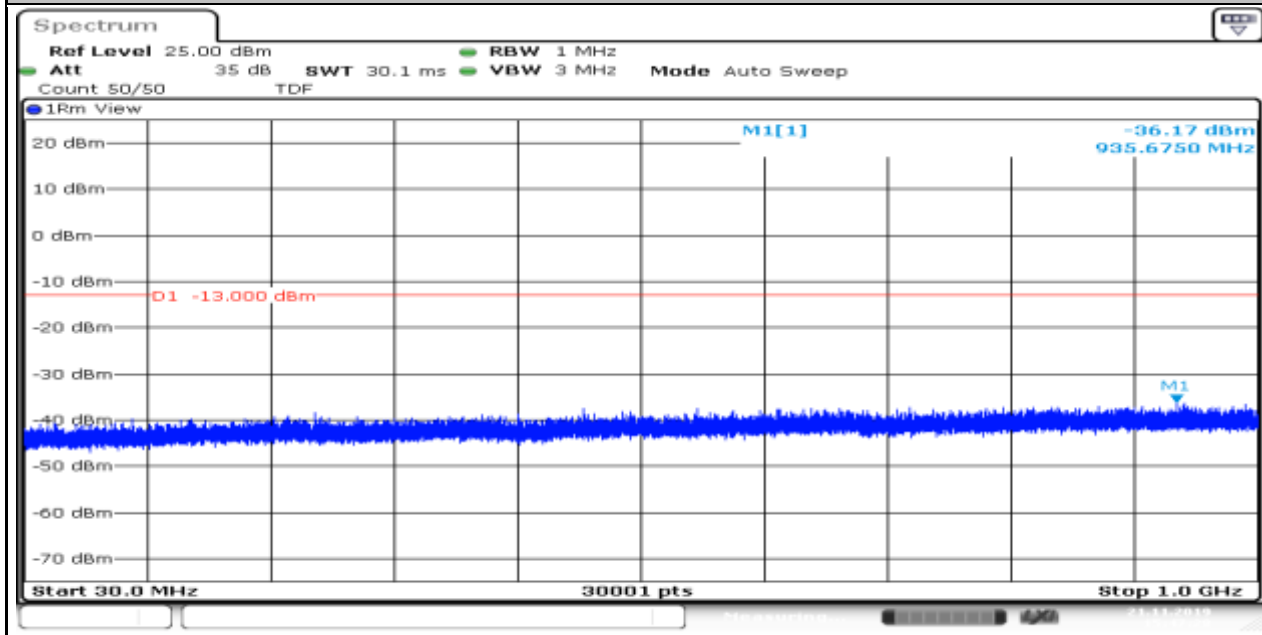


Band25_1.4MHz_16QAM_26683_1_5_Low_5000_12000_-45.08_PASS_

Produkte
Products

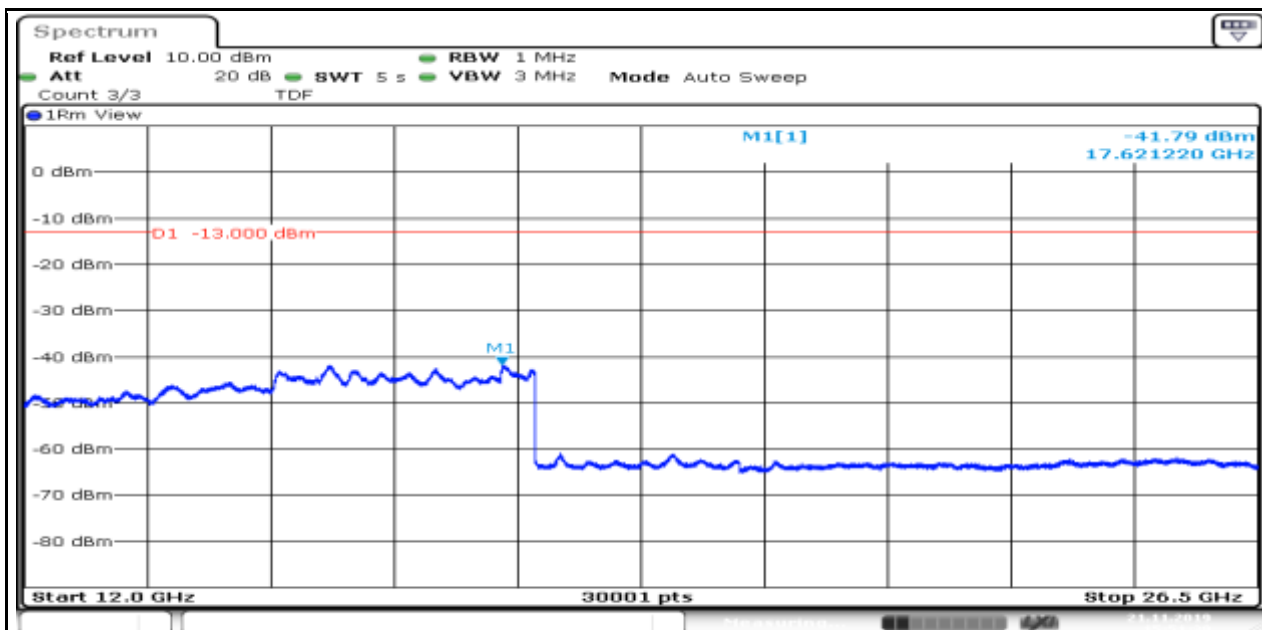


Band25_1.4MHz_16QAM_26683_1_5_Low_30_1000_-36.17_PASS_

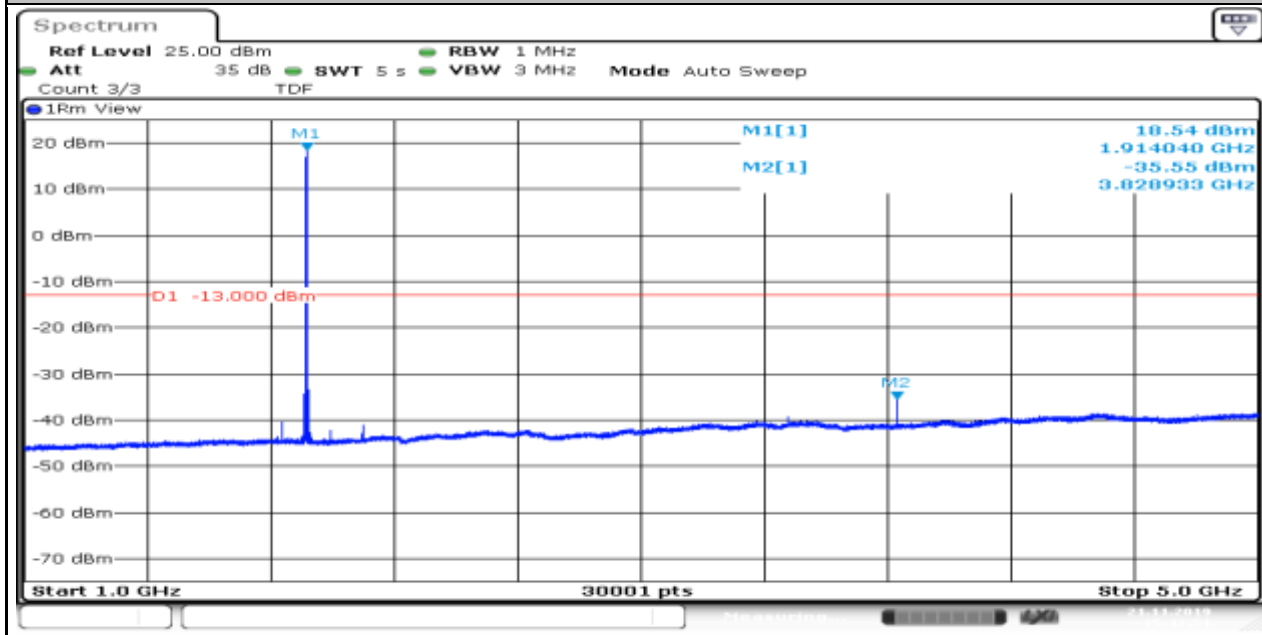


Band25_1.4MHz_16QAM_26683_6_0_Low_12000_26500_-41.79_PASS_

Produkte
 Products



Band25_1.4MHz_16QAM_26683_1_5_Low_1000_5000_-35.55_PASS_



Appendix F.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
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	NT	-32.93	-0.01749	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	LV	NT	-34.2	-0.01817	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	HV	NT	-35.43	-0.01882	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	NT	88.33	0.046922	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	LV	NT	73.77	0.039187	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	HV	NT	84.6	0.04494	±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
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	-10	-34.06	-0.01809	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	40	-24.83	-0.01319	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	-40	-36.08	-0.01917	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	-30	-30.96	-0.01645	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	-20	-34.25	-0.01819	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	30	-29.55	-0.0157	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	0	-28.25	-0.01501	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	10	-27.07	-0.01438	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	60	-28.27	-0.01502	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	20	-37.62	-0.01998	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	50	-39.02	-0.02073	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	70	-28.28	-0.01502	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	80	-35.1	-0.01865	±2.5	PASS
Band25	1.4MHz	QPSK	26365	1	0	Low	NV	85	-30.61	-0.01626	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	-10	72.84	0.038693	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	40	86.33	0.045859	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	20	89.65	0.047623	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	10	90.49	0.048069	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	-30	86.36	0.045875	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	0	74.26	0.039448	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	30	72.14	0.038321	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	-20	87.16	0.0463	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	50	86.42	0.045907	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	85	91.35	0.048526	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	80	87.36	0.046406	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	70	74.16	0.039394	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	60	73.67	0.039134	±2.5	PASS
Band25	1.4MHz	16QAM	26365	1	0	Low	NV	-40	82.61	0.043883	±2.5	PASS