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# Appendix B.3

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.94	19.69	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.92	19.67	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.83	19.58	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.97	18.72	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.96	19.71	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.84	19.59	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.87	19.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.88	18.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.02	19.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.96	19.71	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.83	19.58	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.91	18.66	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.21	18.96	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.98	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.84	18.59	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.87	17.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.85	18.6	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.92	18.67	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.87	18.62	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.92	17.67	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.04	18.79	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.1	18.85	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.03	18.78	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.97	17.72	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.05	17.8	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.31	18.06	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.04	17.79	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.94	16.69	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.97	17.72	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.01	17.76	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.84	17.59	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.89	16.64	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.04	17.79	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.17	17.92	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.16	17.91	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.96	16.71	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	18.09	14.84	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	18.05	14.8	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.85	14.6	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	17.95	14.7	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	17.71	14.46	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	17.93	14.68	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	18.04	14.79	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	17.82	14.57	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	17.81	14.56	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	17.96	14.71	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	17.95	14.7	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18	14.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.87	19.62	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.94	19.69	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.75	19.5	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.92	18.67	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.36	20.11	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.93	19.68	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.77	19.52	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.85	18.6	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.88	19.63	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.99	19.74	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.88	19.63	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.89	18.64	38.45	PASS



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Band5	3MHz	16QAM	20415	1RB#0	21.8	18.55	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.07	18.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.87	18.62	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.92	17.67	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.98	18.73	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.99	18.74	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.88	18.63	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.87	17.62	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.93	18.68	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.12	18.87	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.99	18.74	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.91	17.66	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.93	17.68	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.01	17.76	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.87	17.62	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.9	16.65	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.01	17.76	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.97	17.72	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.87	17.62	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.89	16.64	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.06	17.81	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.21	17.96	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.09	17.84	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.86	16.61	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	17.88	14.63	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	18.14	14.89	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	17.88	14.63	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	17.98	14.73	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	17.87	14.62	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	18	14.75	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	17.86	14.61	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	17.9	14.65	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	17.87	14.62	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#8	18.03	14.78	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	17.98	14.73	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	17.89	14.64	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.85	19.6	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.02	19.77	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.7	19.45	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.89	18.64	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.87	19.62	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.81	19.56	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.92	19.67	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.9	18.65	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.12	19.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.9	19.65	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.82	19.57	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.89	18.64	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.95	18.7	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.08	18.83	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.86	18.61	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.89	17.64	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.85	18.6	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.04	18.79	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.95	18.7	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.9	17.65	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.09	18.84	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.01	18.76	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.08	18.83	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.84	17.59	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.93	17.68	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.98	17.73	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.91	17.66	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.88	16.63	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.01	17.76	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	20.98	17.73	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#24	21.08	17.83	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.88	16.63	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.07	17.82	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.13	17.88	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.12	17.87	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.85	16.6	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	17.81	14.56	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	17.88	14.63	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	17.84	14.59	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	17.85	14.6	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	17.85	14.6	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	17.95	14.7	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	17.98	14.73	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	17.83	14.58	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	18.12	14.87	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	18.02	14.77	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	17.92	14.67	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	17.88	14.63	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.86	19.61	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.81	19.56	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.73	19.48	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.84	18.59	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.33	20.08	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.89	19.64	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.84	19.59	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.95	18.7	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.21	19.96	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.92	19.67	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.84	19.59	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.89	18.64	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.01	18.76	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.9	18.65	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.88	18.63	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	20.94	17.69	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.93	18.68	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.93	18.68	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.06	18.81	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.9	17.65	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.01	18.76	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.97	18.72	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.23	18.98	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21	17.75	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.98	17.73	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.01	17.76	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.99	17.74	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.84	16.59	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.91	17.66	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.04	17.79	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.14	17.89	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.87	16.62	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.03	17.78	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.16	17.91	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.06	17.81	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.84	16.59	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	17.92	14.67	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	17.85	14.6	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	17.83	14.58	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	17.9	14.65	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	17.78	14.53	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	17.94	14.69	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	17.96	14.71	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	17.93	14.68	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	17.88	14.63	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	17.99	14.74	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	18.08	14.83	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	17.87	14.62	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.16	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.26	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.16	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.54	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.70	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.62	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.90	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.94	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.88	13	PASS



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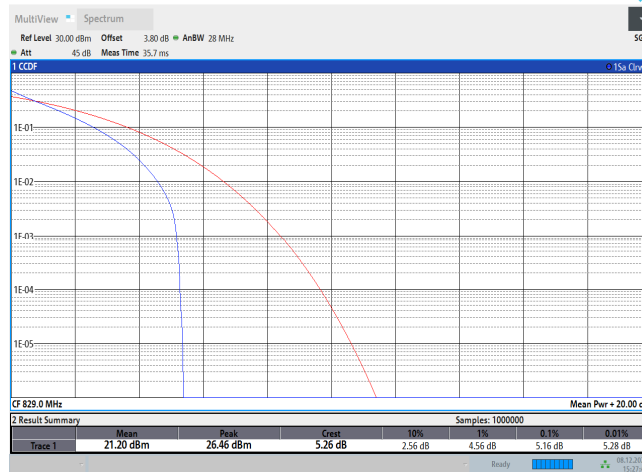
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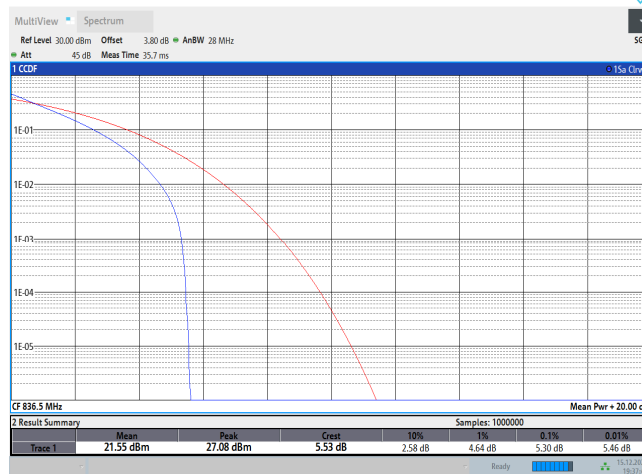
Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



15:27:46 08.12.2022

Band5-10MHz-QPSK-20525-50RB#0



19:37:49 15.12.2022



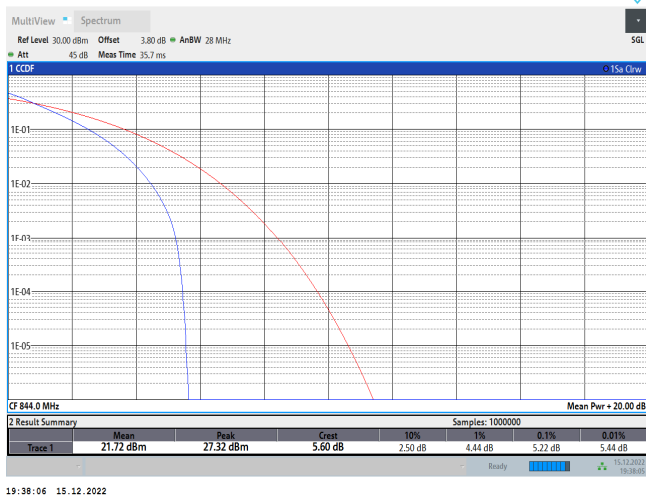
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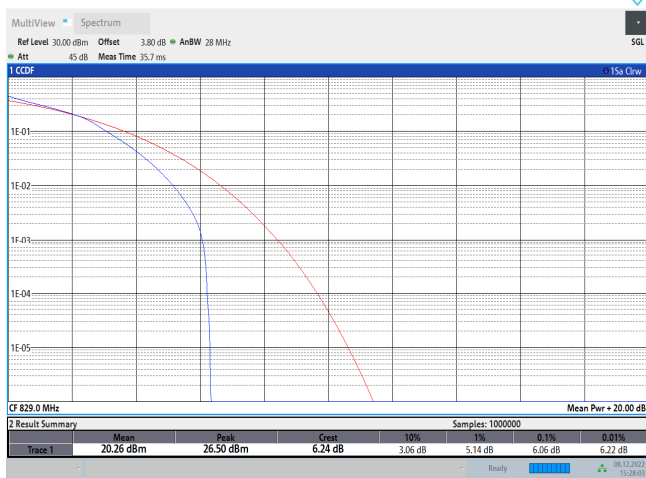
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Band5-10MHz-QPSK-20600-50RB#0



19:38:06 15.12.2022

Band5-10MHz-16QAM-20450-50RB#0

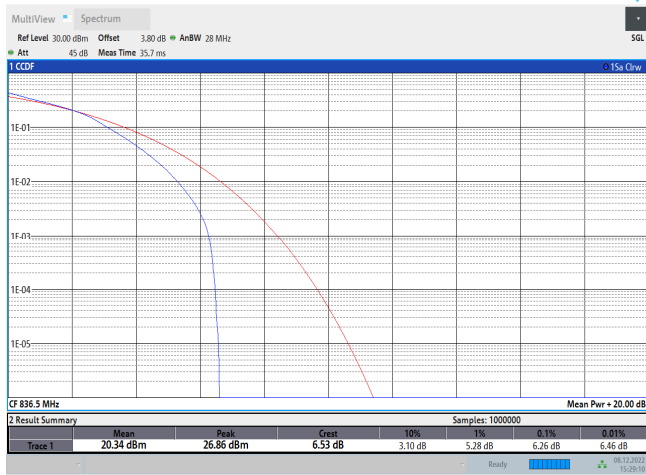


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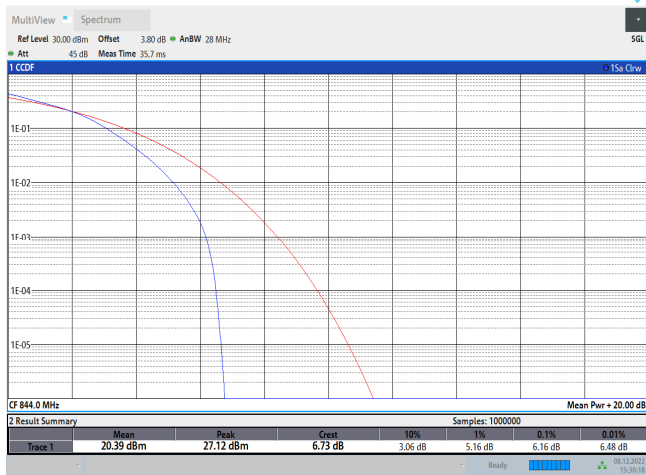
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Band5-10MHz-16QAM-20525-50RB#0



15:29:11 08.12.2022

Band5-10MHz-16QAM-20600-50RB#0

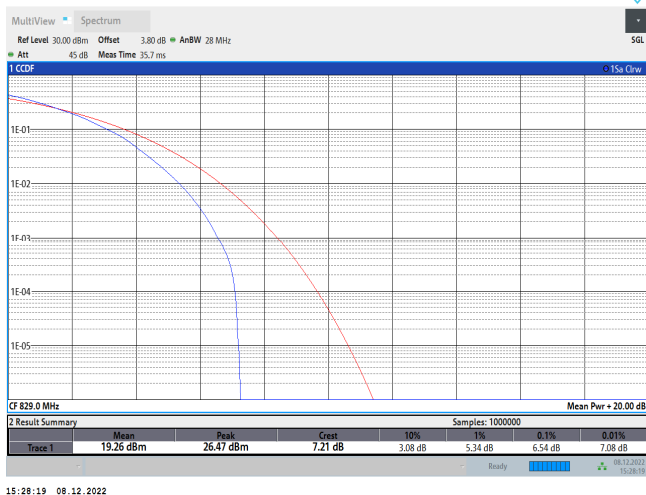


15:30:19 08.12.2022



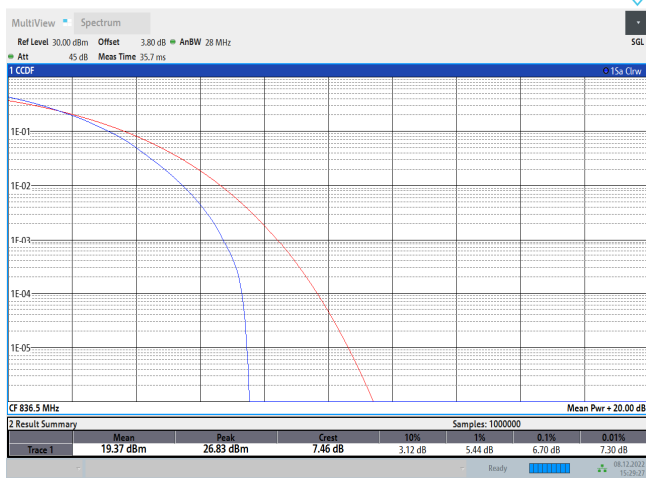
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Band5-10MHz-64QAM-20450-50RB#0



15:28:19 08.12.2022

Band5-10MHz-64QAM-20525-50RB#0

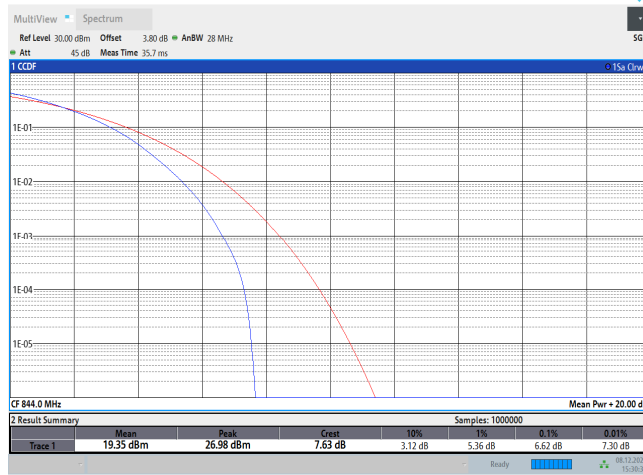


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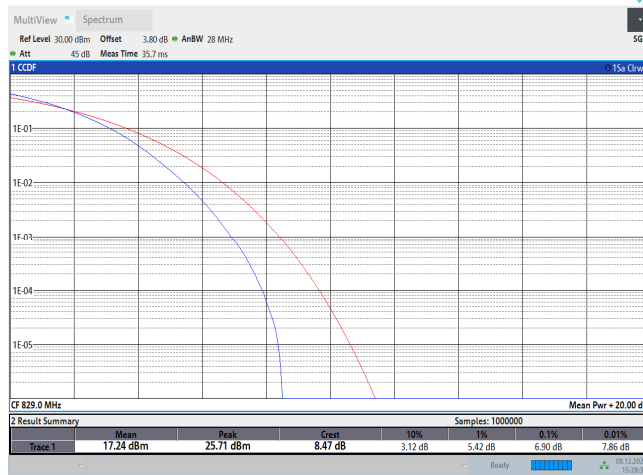
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Band5-10MHz-64QAM-20600-50RB#0



15:30:35 08.12.2022

Band5-10MHz-256QAM-20450-50RB#0



15:28:36 08.12.2022

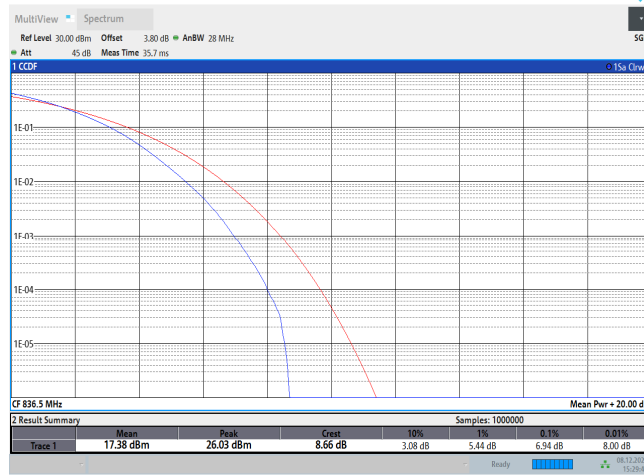


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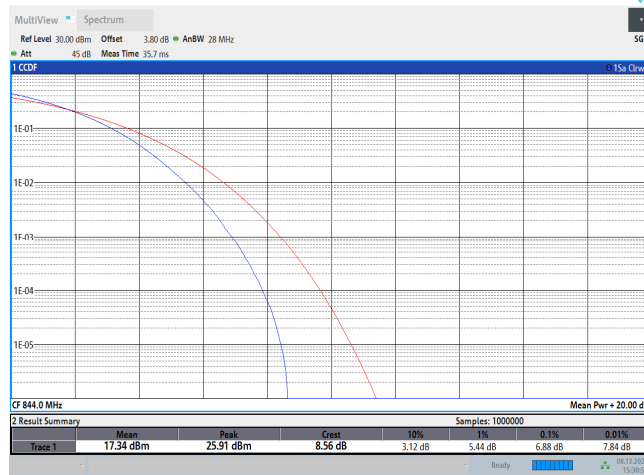
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Band5-10MHz-256QAM-20525-50RB#0



15:29:44 08.12.2022

Band5-10MHz-256QAM-20600-50RB#0



15:30:52 08.12.2022



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Rev.: 01

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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	256QAM	20525	50RB#0	PASS	PASS



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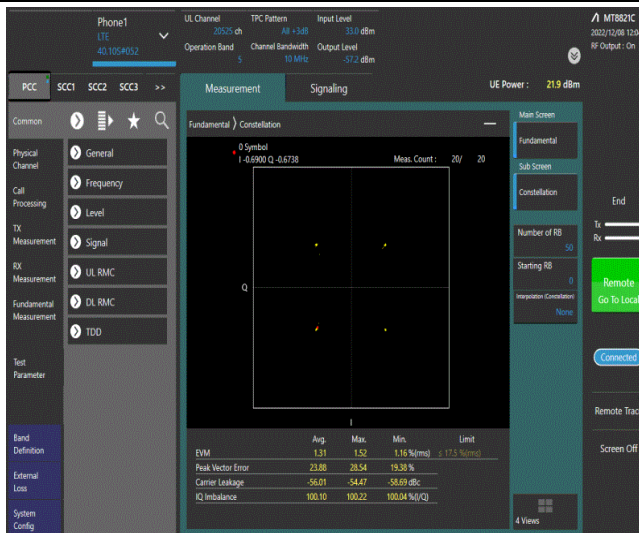
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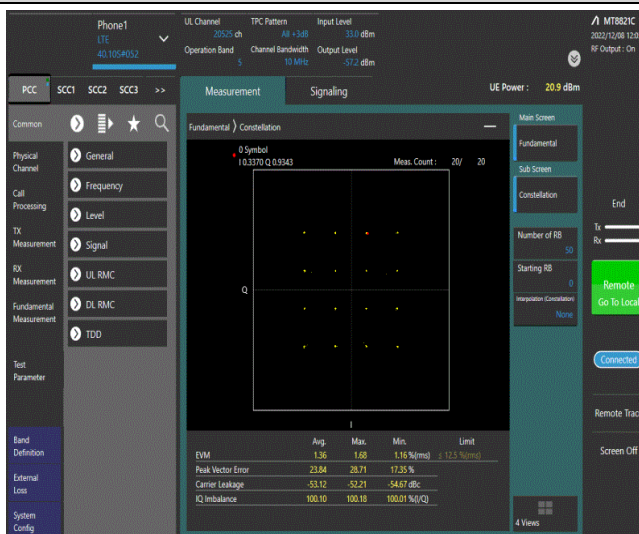


Test Graphs

Band5-10MHz-QPSK-20525-50RB#0

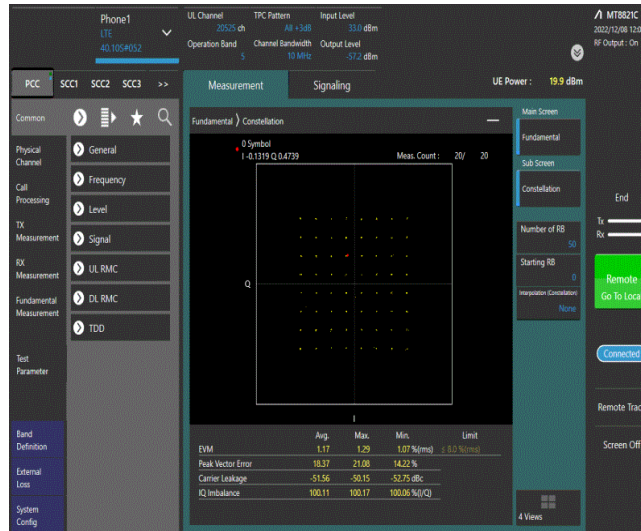


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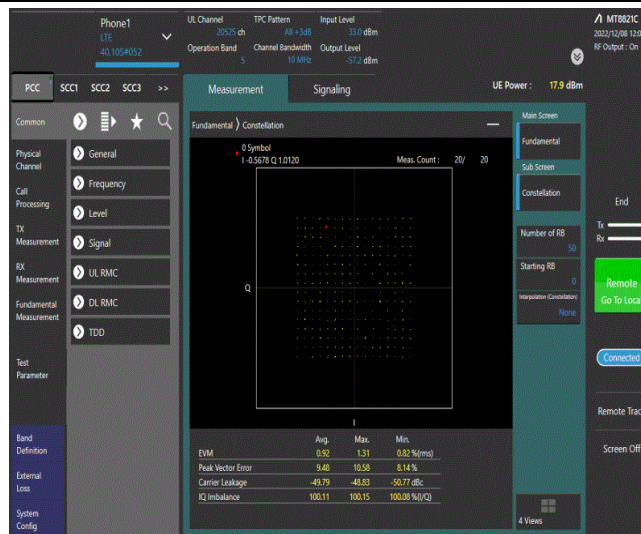


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Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-256QAM-20525-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.105	1.37	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.104	1.39	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.109	1.38	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.104	1.39	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.11	1.38	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.109	1.43	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.104	1.39	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.108	1.38	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.105	1.39	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.106	1.39	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.103	1.38	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.106	1.39	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.704	3.06	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.698	3.04	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.702	3.04	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.699	3.03	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7	3.07	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.699	3.04	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.694	3.05	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.697	3.07	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.697	3.06	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.69	3.05	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.7	3.02	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.696	3.05	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.48	5.04	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	5.07	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.484	5.07	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	5.07	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.481	5.03	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.478	5.03	PASS



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Band5	5MHz	64QAM	20425	25RB#0	4.477	5.04	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.48	5.04	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.472	5.08	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.472	5.07	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.476	5.05	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.47	5.06	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.72	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.957	9.88	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.917	9.84	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.94	9.82	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.937	9.80	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.917	9.84	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.927	9.78	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.942	9.86	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.933	9.78	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.925	9.76	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.945	9.82	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.913	9.76	PASS



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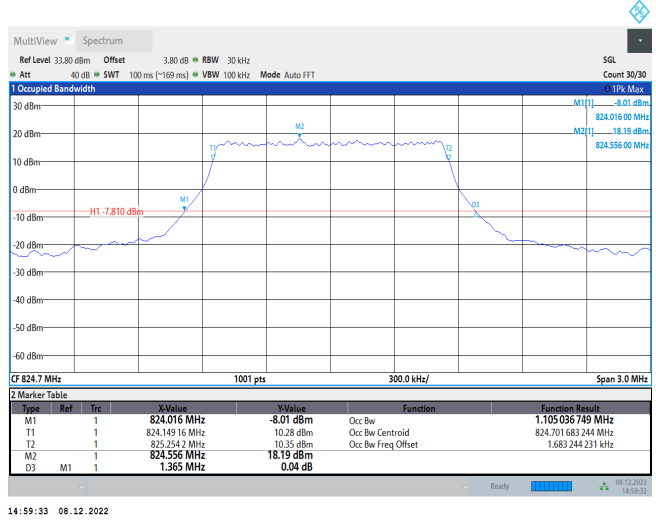
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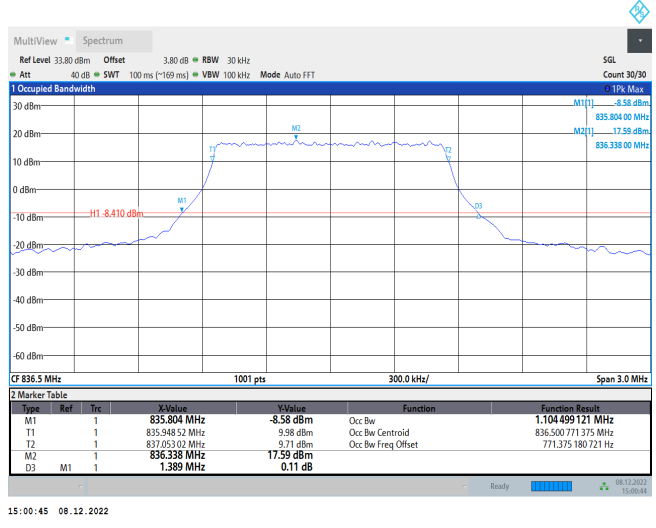
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Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0

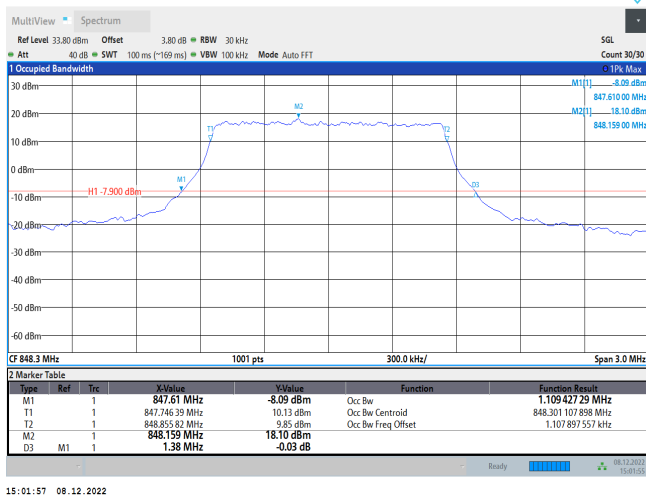


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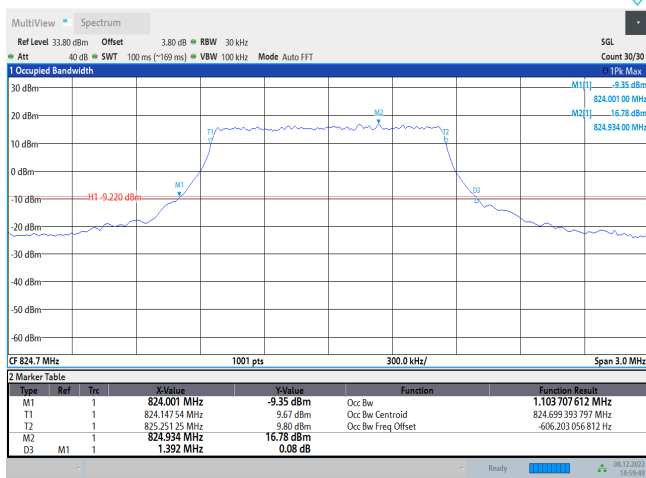
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Band5-1.4MHz-QPSK-20643-6RB#0



15:01:57 08.12.2022

Band5-1.4MHz-16QAM-20407-6RB#0

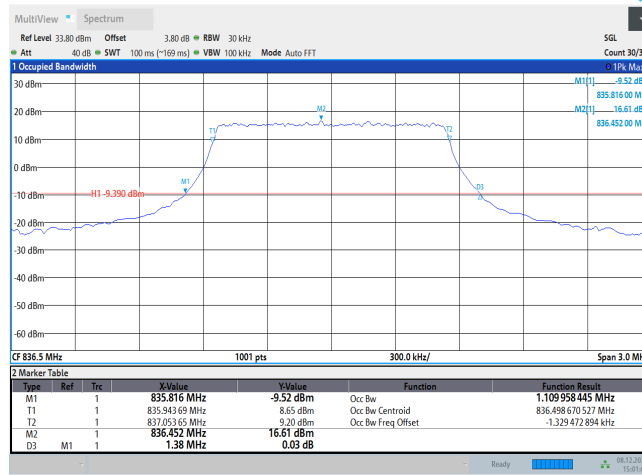


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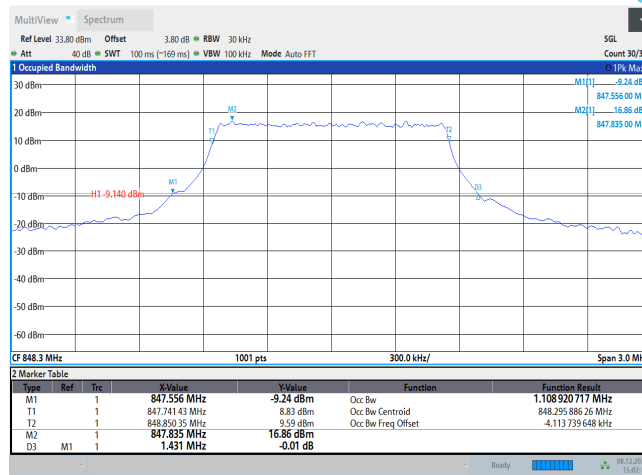
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Band5-1.4MHz-16QAM-20525-6RB#0



15:01:02 08.12.2022

Band5-1.4MHz-16QAM-20643-6RB#0



15:02:14 08.12.2022



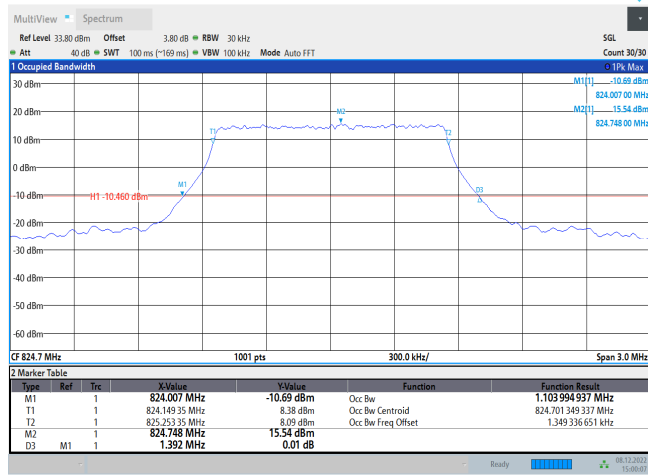
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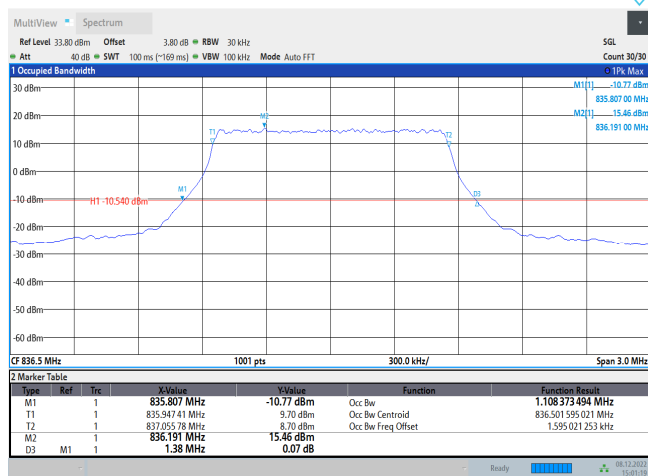
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Band5-1.4MHz-64QAM-20407-6RB#0



15:00:08 08.12.2022

Band5-1.4MHz-64QAM-20525-6RB#0



15:01:20 08.12.2022



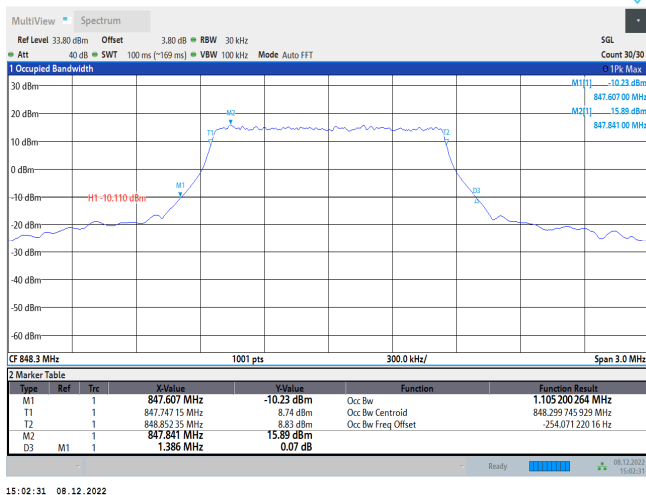
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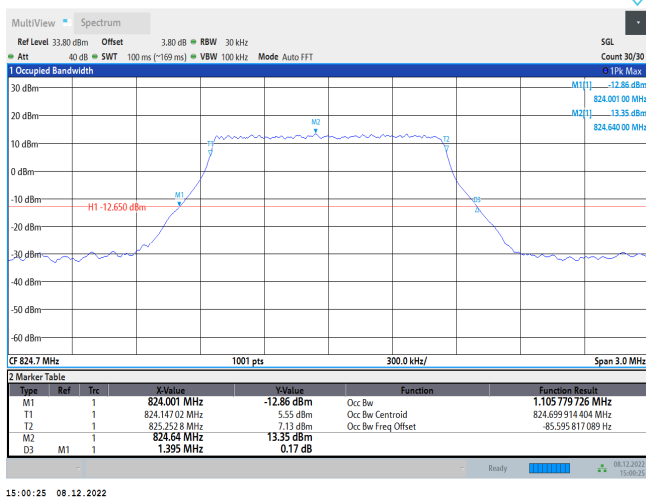
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Band5-1.4MHz-64QAM-20643-6RB#0

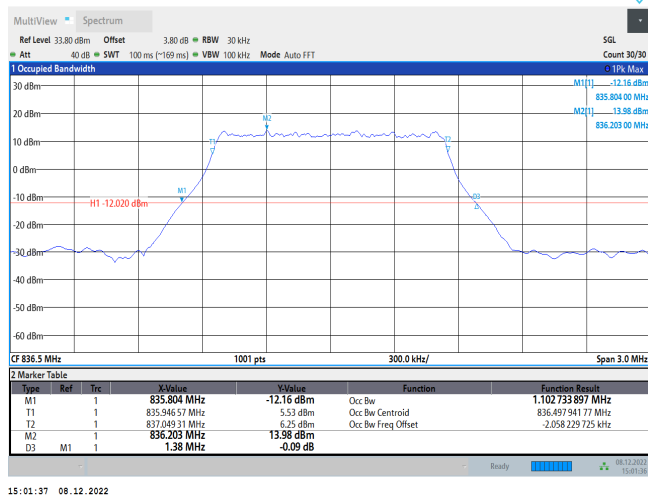


Band5-1.4MHz-256QAM-20407-6RB#0



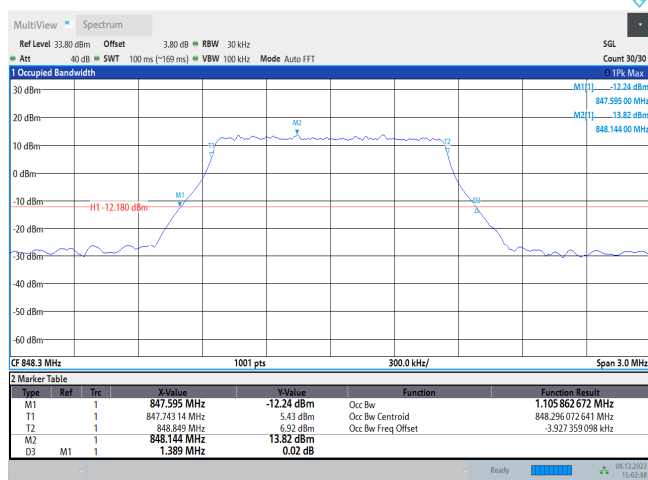
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Band5-1.4MHz-256QAM-20525-6RB#0



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Band5-1.4MHz-256QAM-20643-6RB#0



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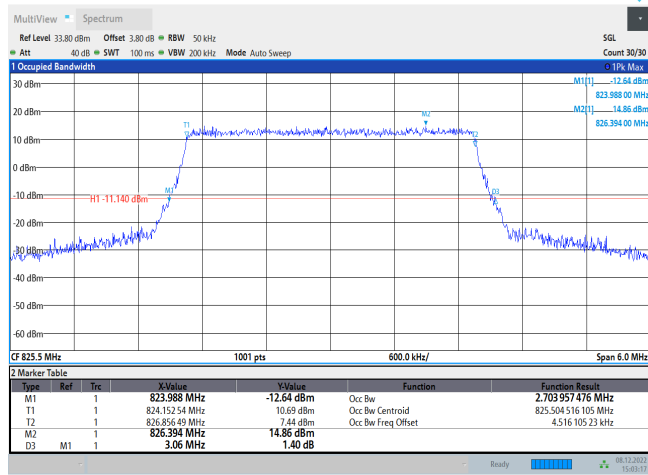


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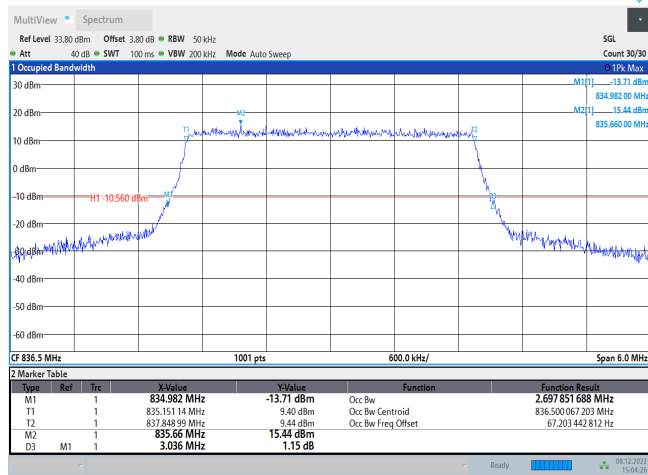
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Band5-3MHz-QPSK-20415-15RB#0



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Band5-3MHz-QPSK-20525-15RB#0



15:04:26 08.12.2022

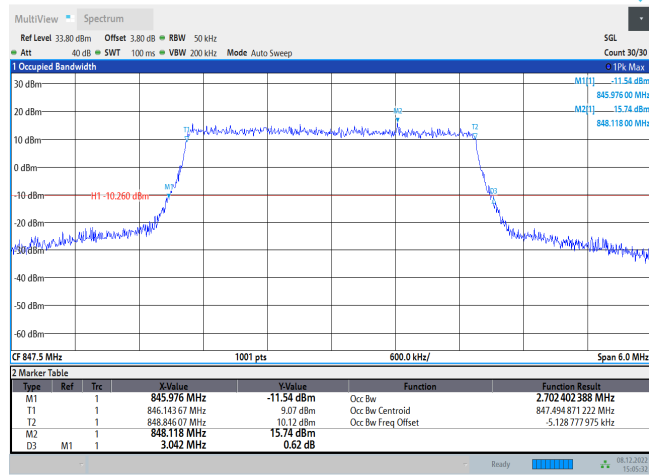


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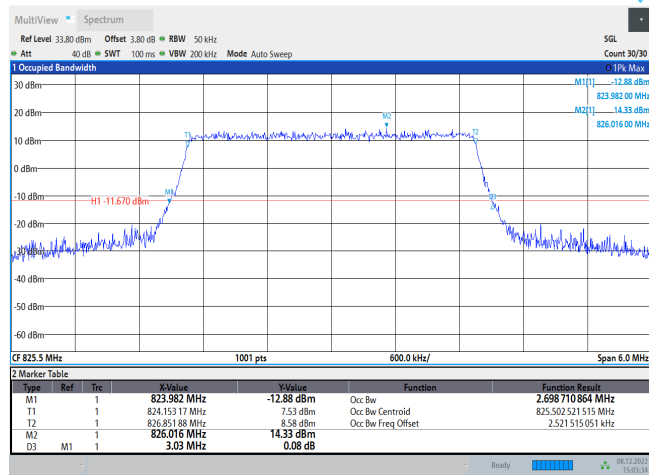
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Band5-3MHz-QPSK-20635-15RB#0



15:05:33 08.12.2022

Band5-3MHz-16QAM-20415-15RB#0



15:03:34 08.12.2022

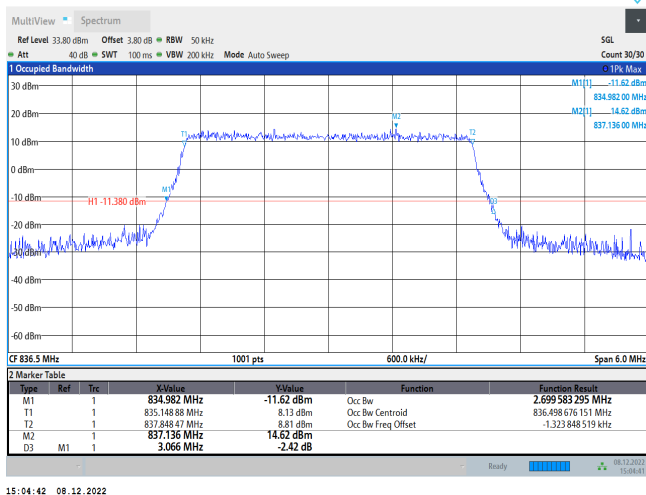


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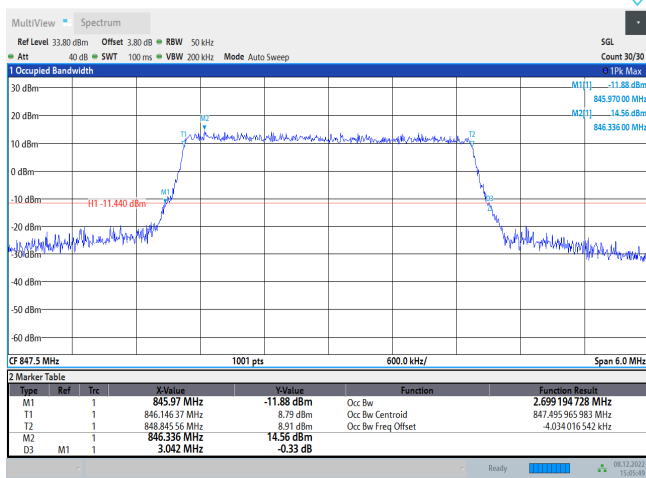
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Band5-3MHz-16QAM-20525-15RB#0



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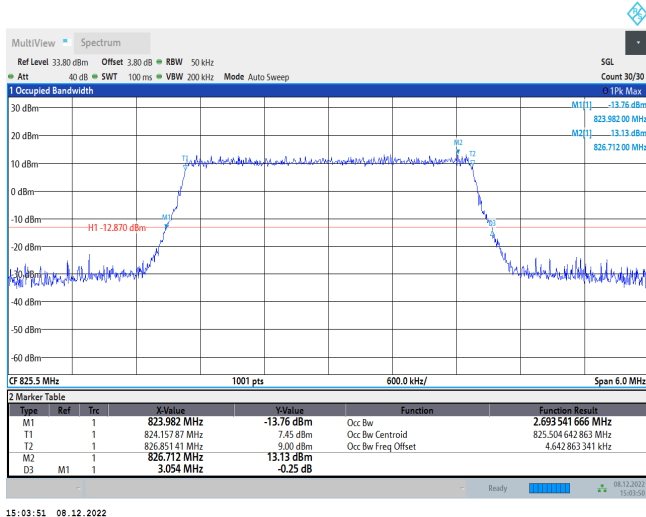


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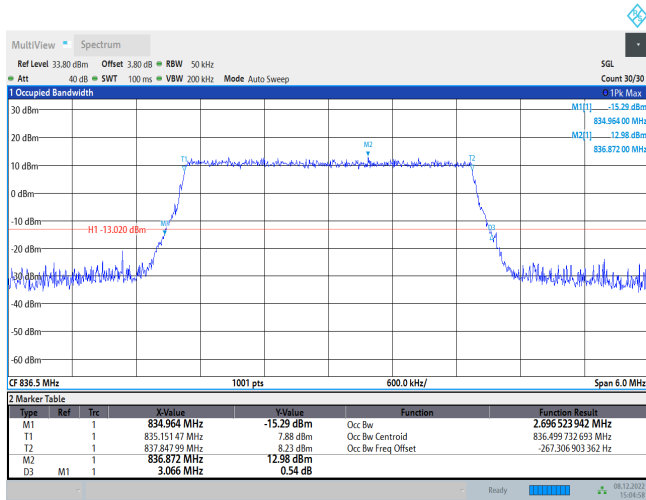
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Band5-3MHz-64QAM-20415-15RB#0



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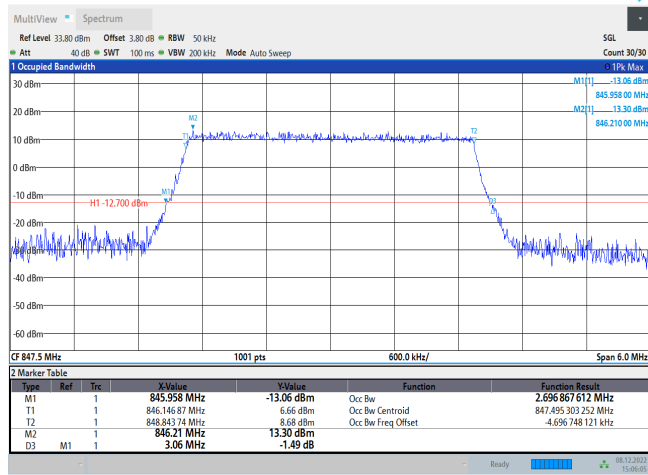


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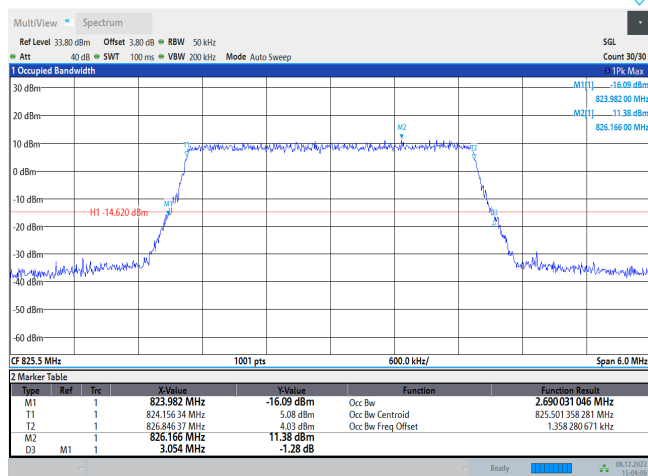
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Band5-3MHz-64QAM-20635-15RB#0



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Band5-3MHz-256QAM-20415-15RB#0

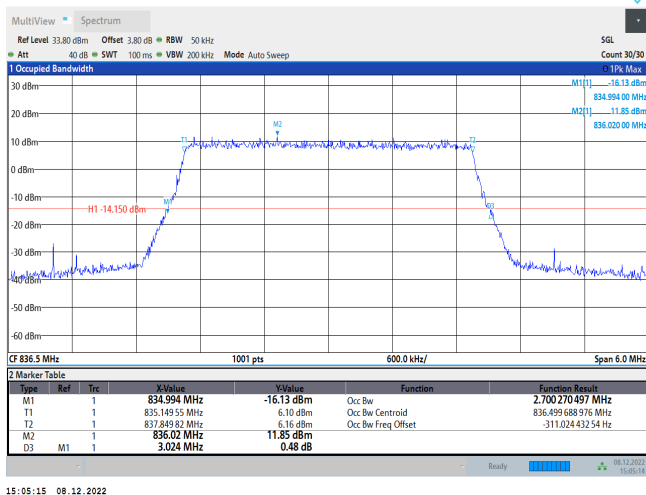


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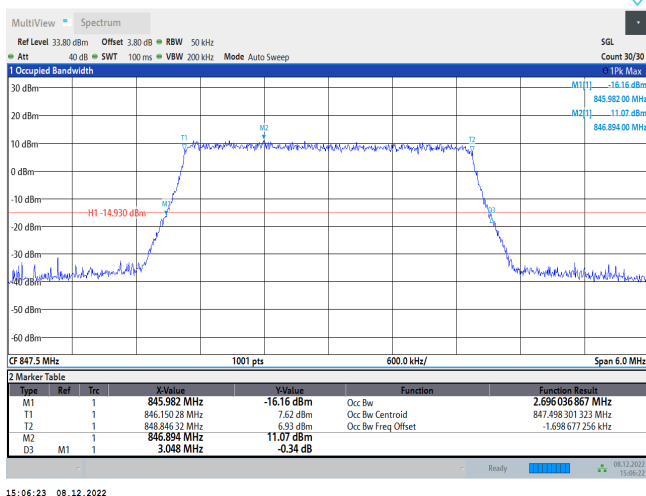


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Band5-3MHz-256QAM-20525-15RB#0



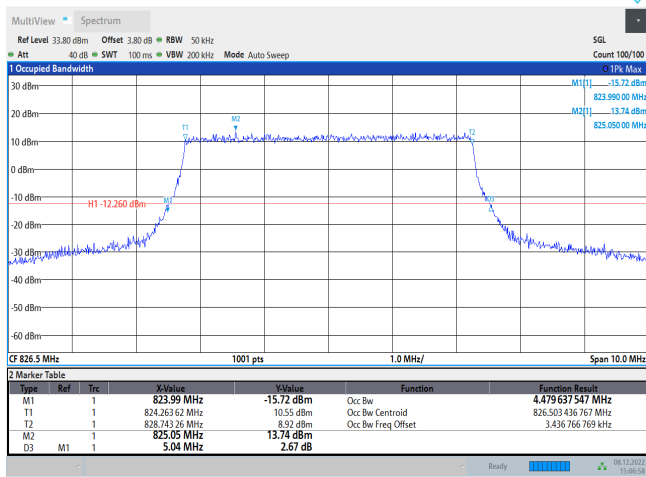
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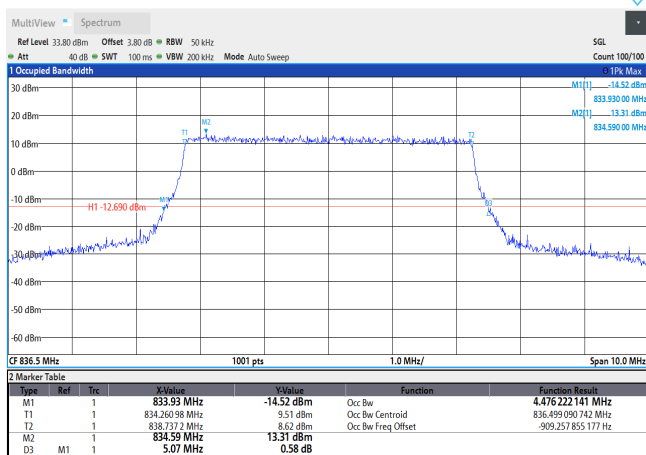


Band5-5MHz-QPSK-20425-25RB#0



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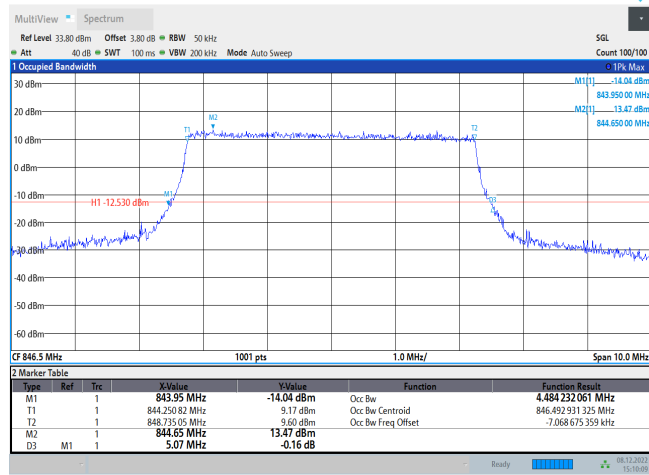


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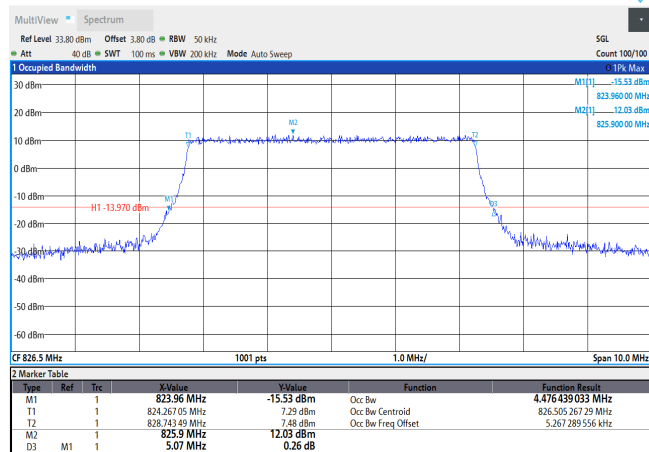
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Band5-5MHz-QPSK-20625-25RB#0



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Band5-5MHz-16QAM-20425-25RB#0



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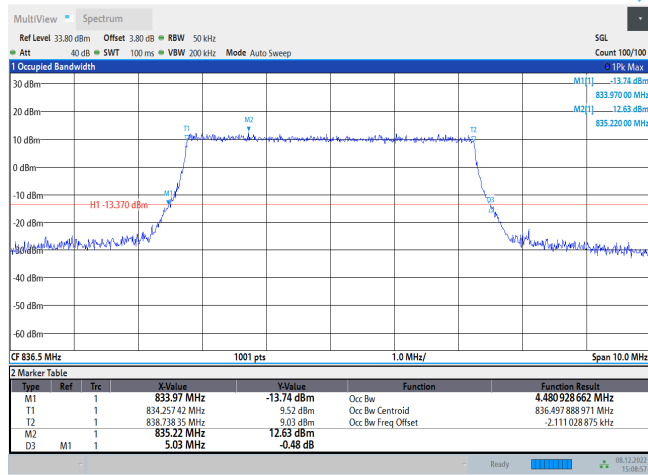


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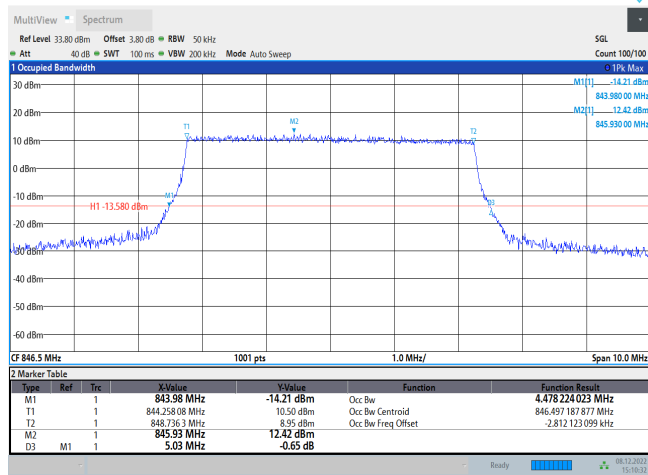
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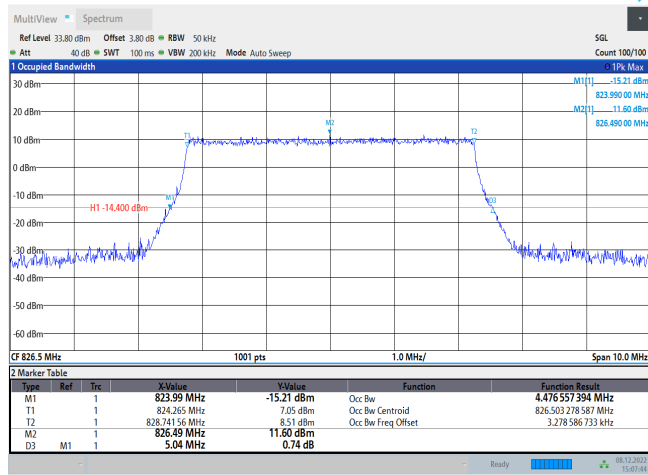


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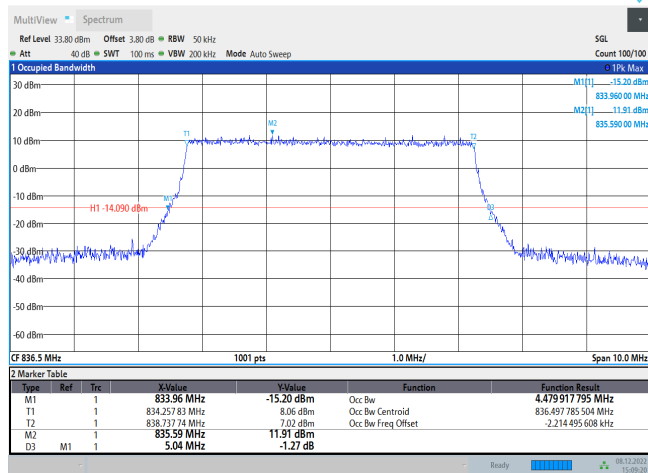
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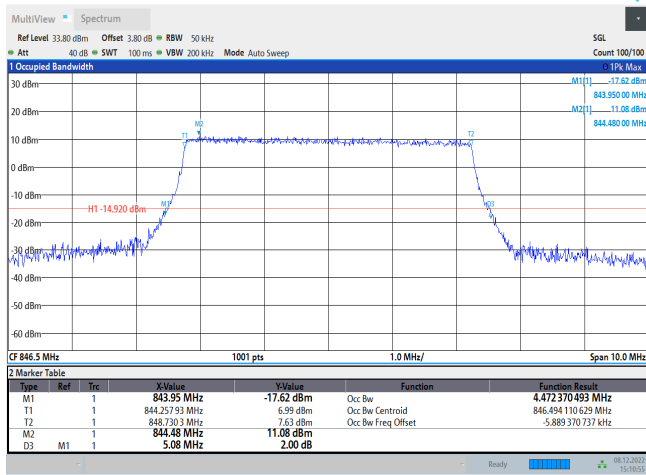
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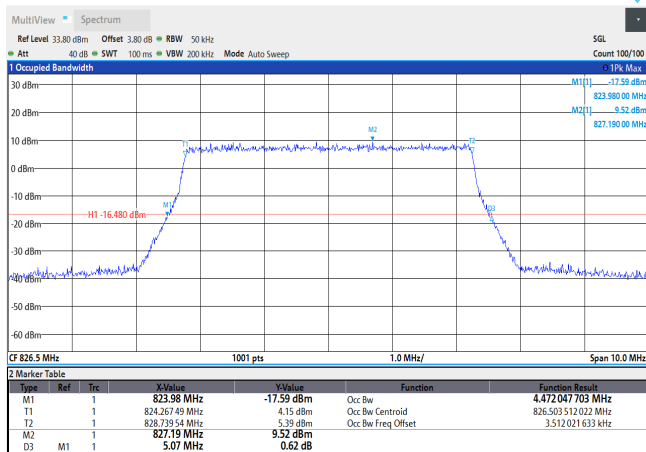
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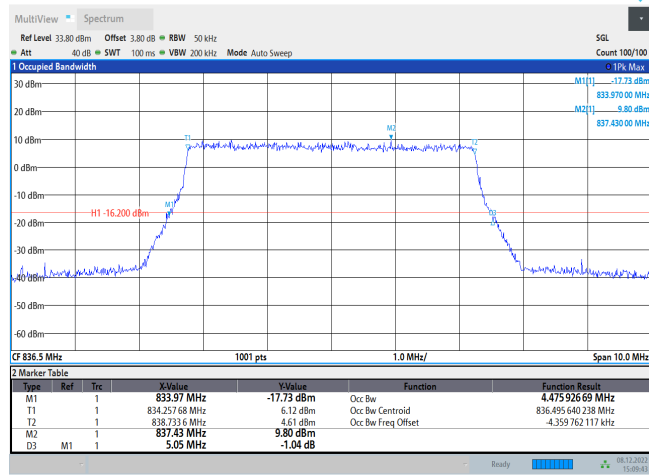


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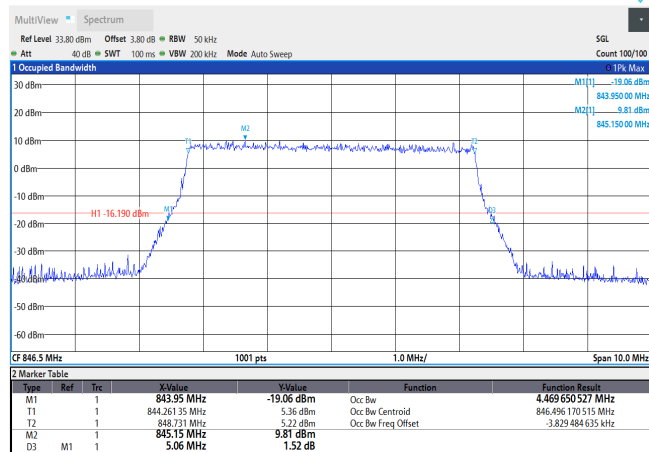
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15:09:44 08.12.2022

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15:11:19 08.12.2022



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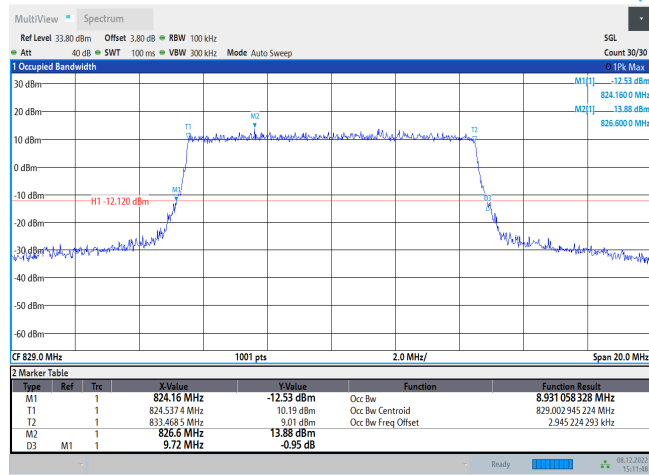
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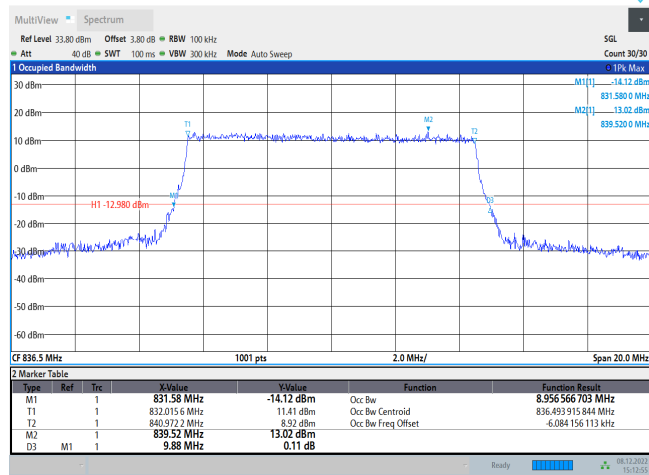
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Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0

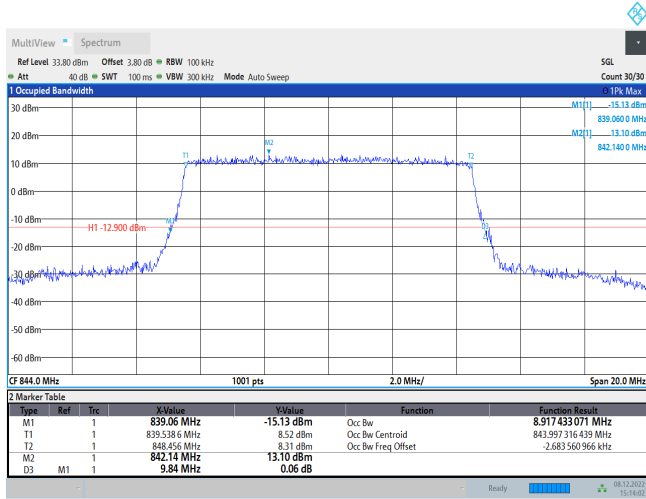


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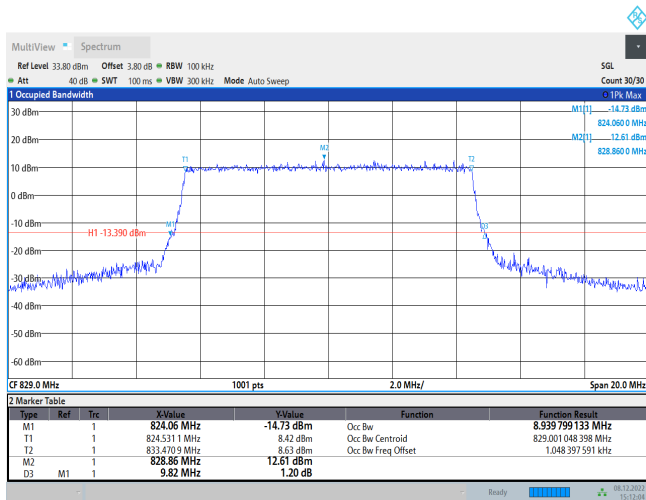
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Band5-10MHz-QPSK-20600-50RB#0



15:14:03 08.12.2022

Band5-10MHz-16QAM-20450-50RB#0



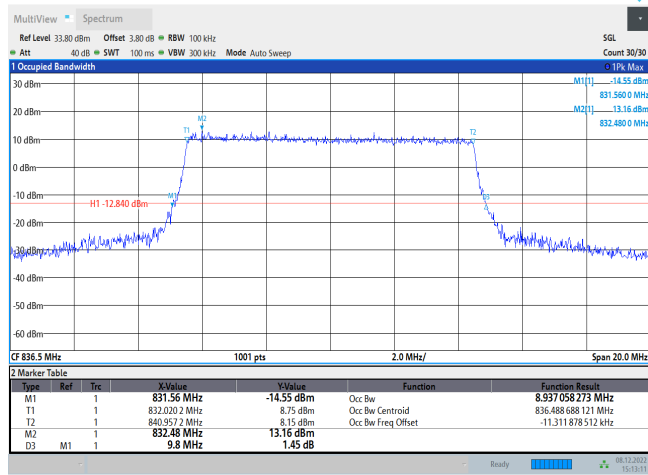
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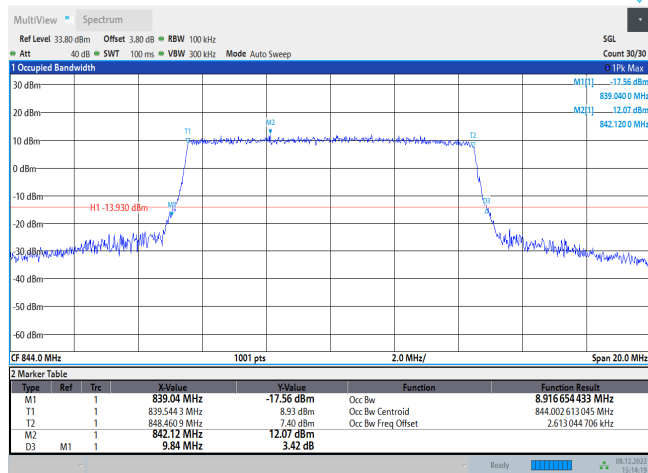


Band5-10MHz-16QAM-20525-50RB#0



15:13:12 08.12.2022

Band5-10MHz-16QAM-20600-50RB#0



15:14:19 08.12.2022



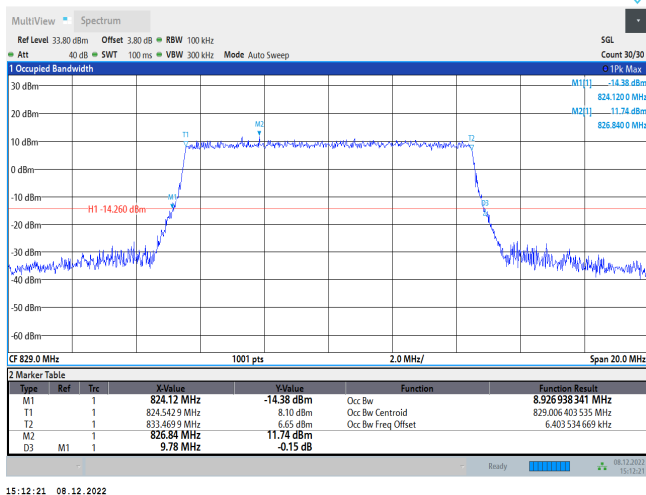
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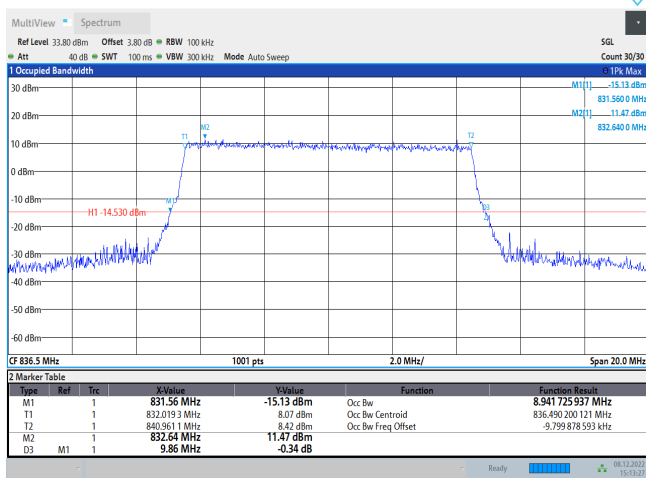
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Band5-10MHz-64QAM-20450-50RB#0



15:12:21 08.12.2022

Band5-10MHz-64QAM-20525-50RB#0

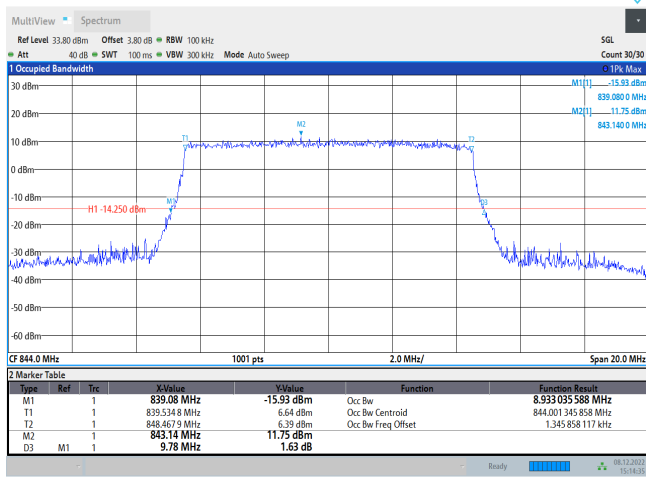


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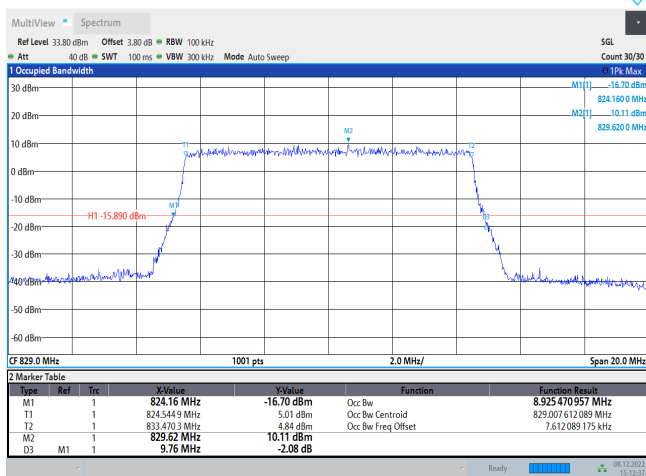
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Band5-10MHz-64QAM-20600-50RB#0



15:14:35 08.12.2022

Band5-10MHz-256QAM-20450-50RB#0

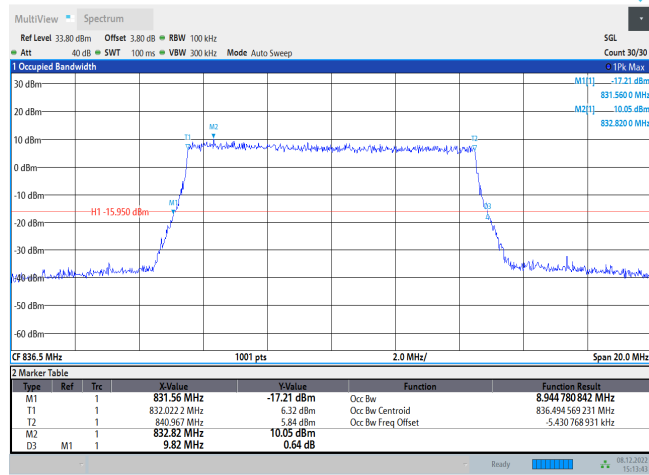


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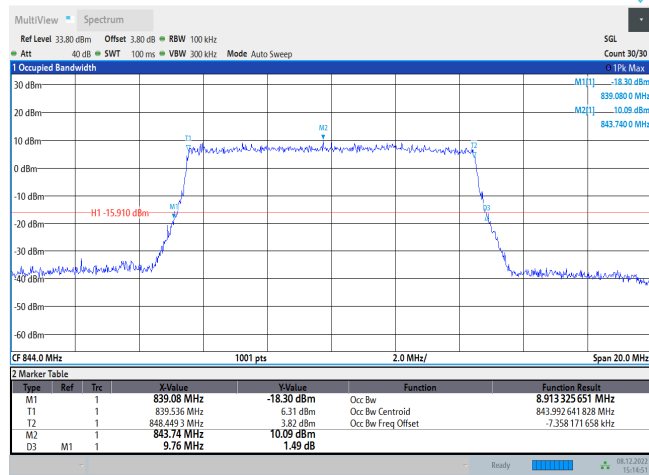
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Band5-10MHz-256QAM-20525-50RB#0



15:13:44 08.12.2022

Band5-10MHz-256QAM-20600-50RB#0



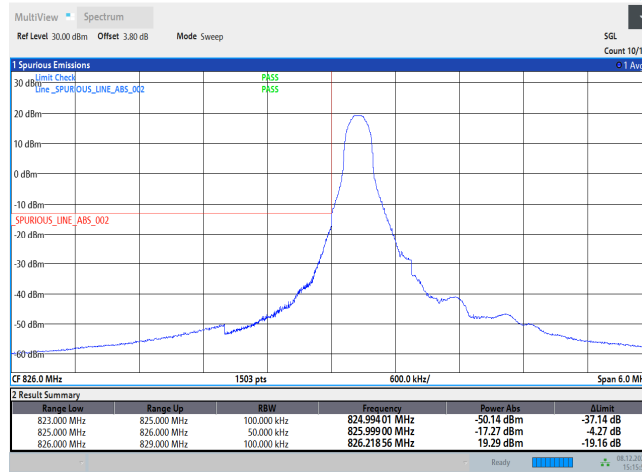
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## Band Edge

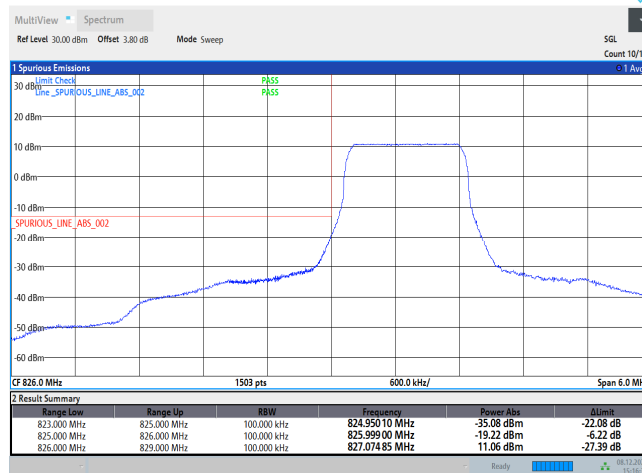
## Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



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Band5-1.4MHz-QPSK-20427-6RB#0



15:16:35 08.12.2022



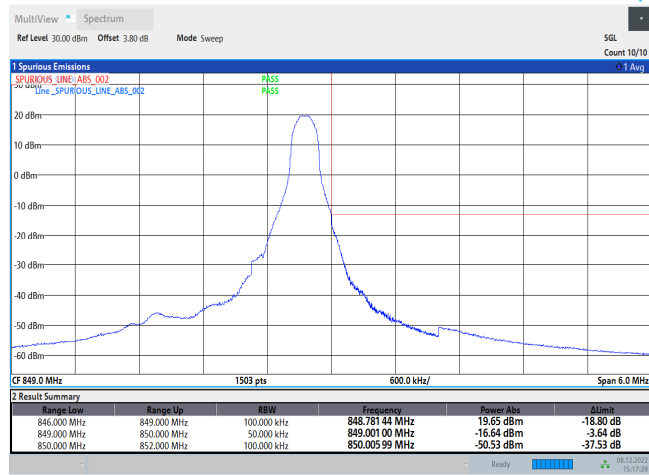
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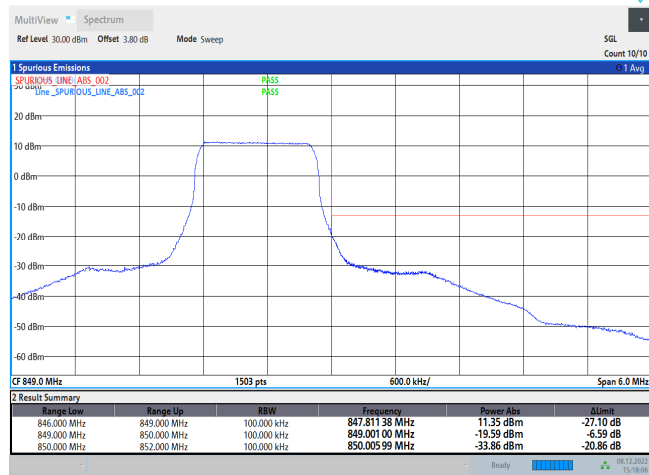
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Band5-1.4MHz-QPSK-20643-1RB#5



15:17:29 08.12.2022

Band5-1.4MHz-QPSK-20643-6RB#0

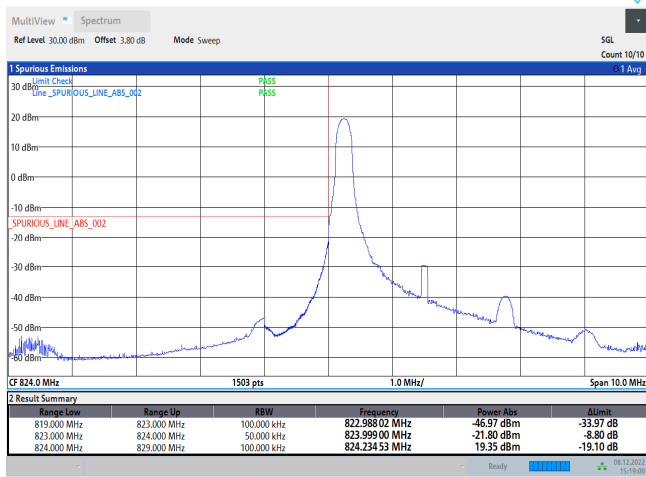


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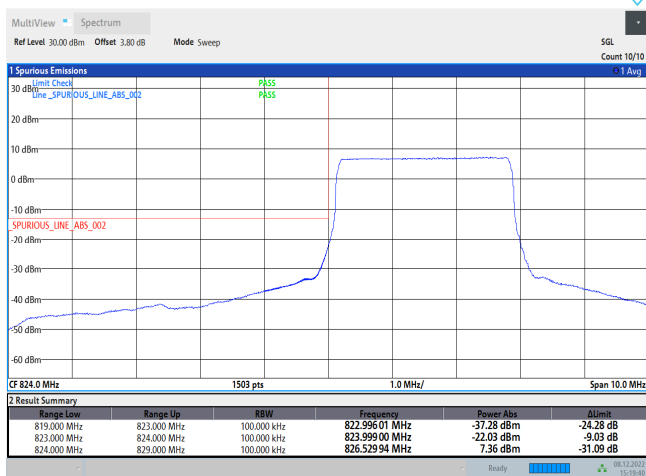
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Band5-3MHz-QPSK-20415-1RB#0



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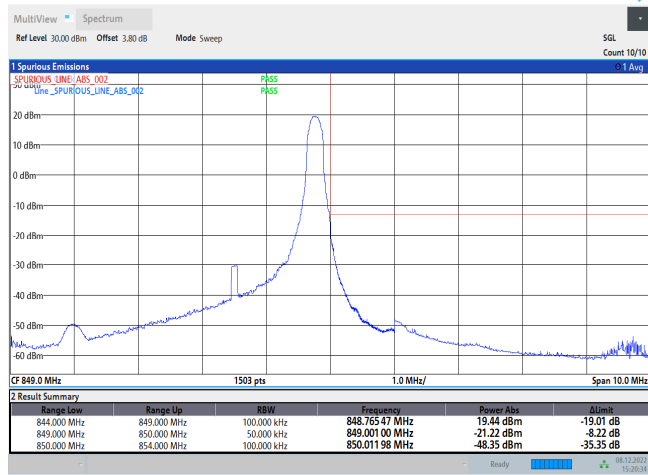


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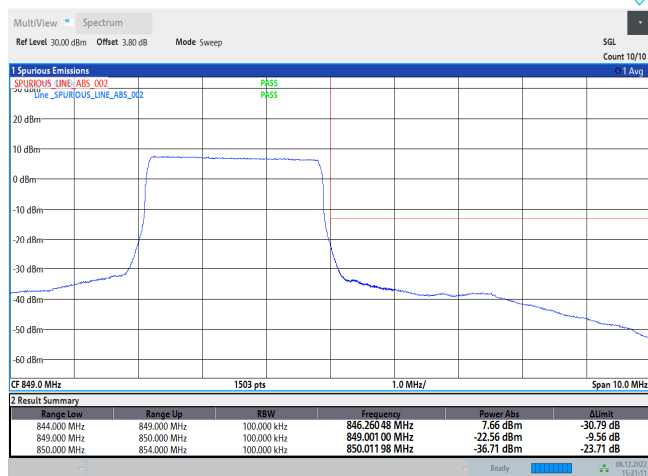
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Band5-3MHz-QPSK-20635-1RB#14



15:20:34 08.12.2022

Band5-3MHz-QPSK-20635-15RB#0



15:21:12 08.12.2022



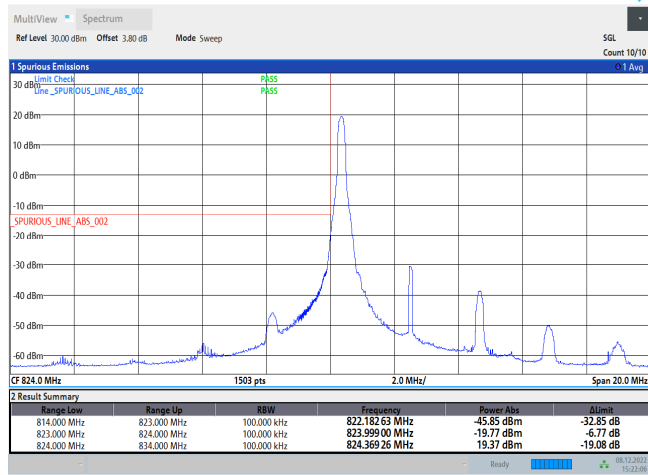
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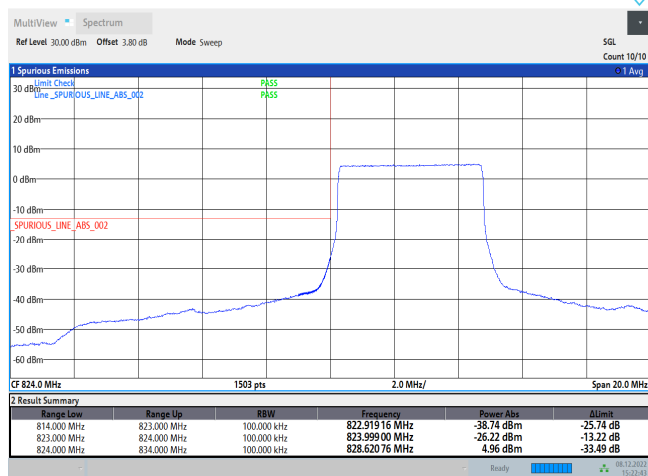


Band5-5MHz-QPSK-20425-1RB#0



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Band5-5MHz-QPSK-20425-25RB#0



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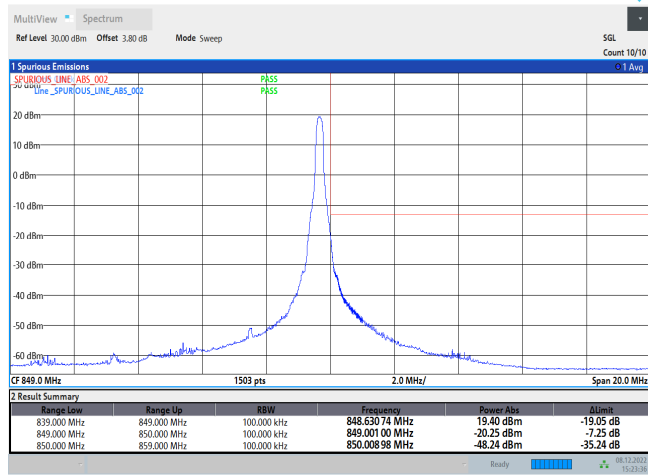


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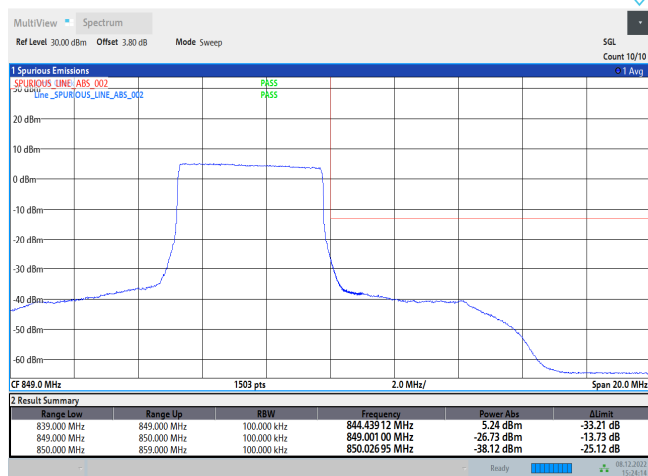
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Band5-5MHz-QPSK-20625-1RB#24



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Band5-5MHz-QPSK-20625-25RB#0



15:24:14 08.12.2022

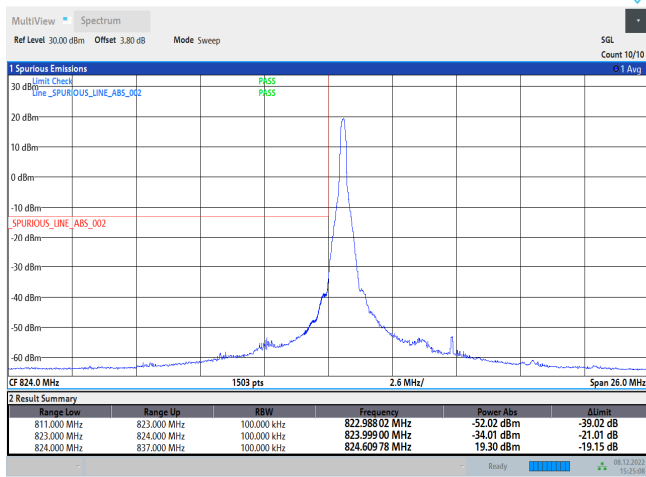


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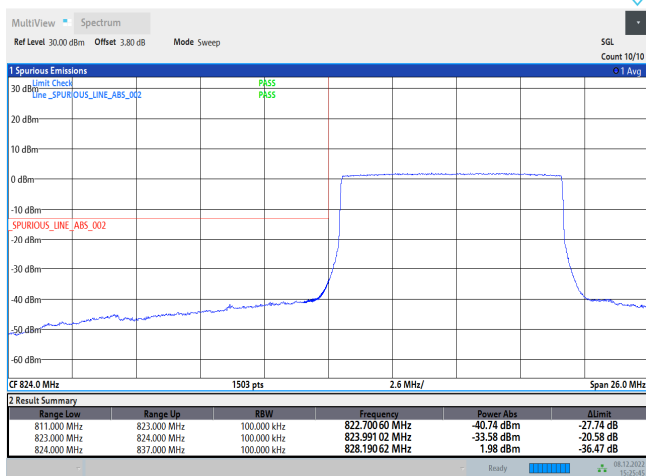
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Band5-10MHz-QPSK-20450-1RB#0



15:25:08 08.12.2022

Band5-10MHz-QPSK-20450-50RB#0

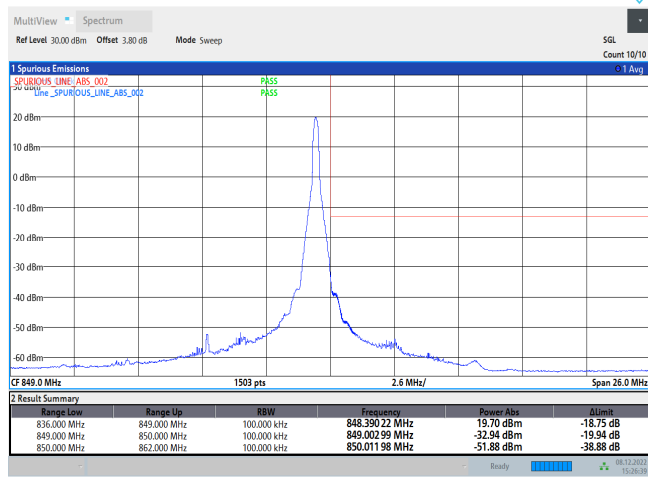


15:25:46 08.12.2022



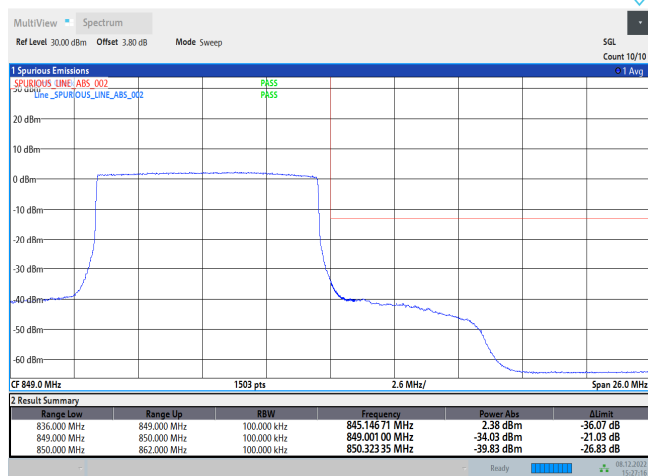
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Band5-10MHz-QPSK-20600-1RB#49



15:26:39 08.12.2022

Band5-10MHz-QPSK-20600-50RB#0



15:27:17 08.12.2022

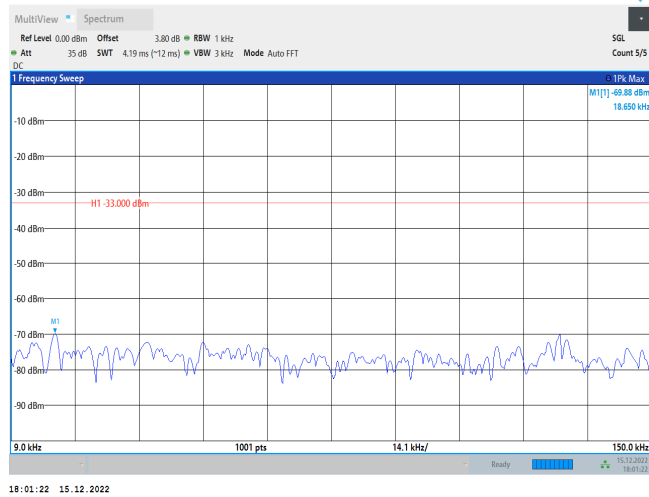


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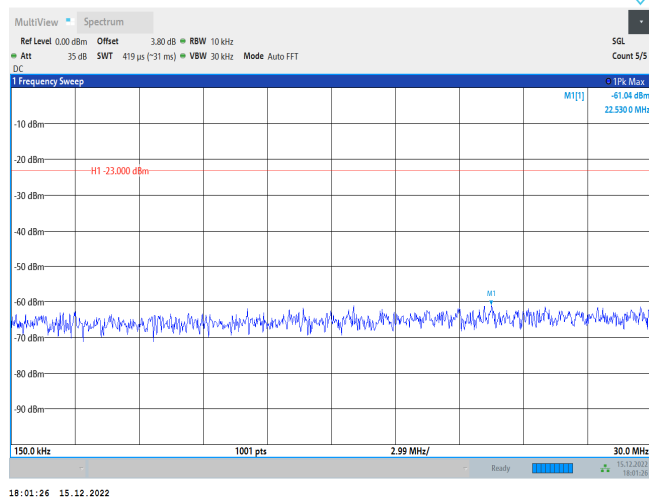
## Conducted Spurious Emission

### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



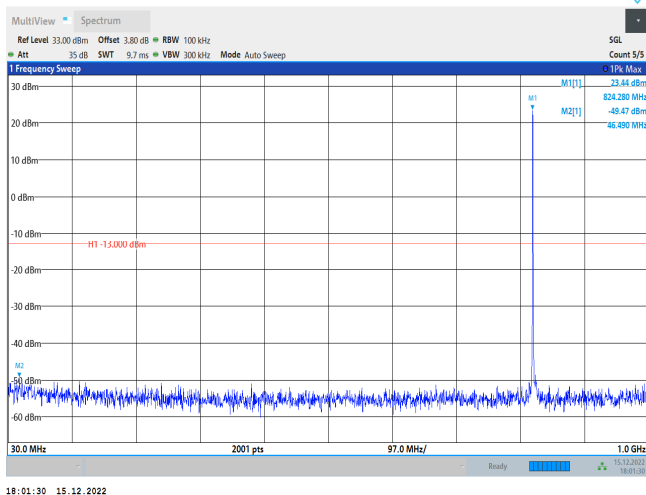
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Wireless Laboratory

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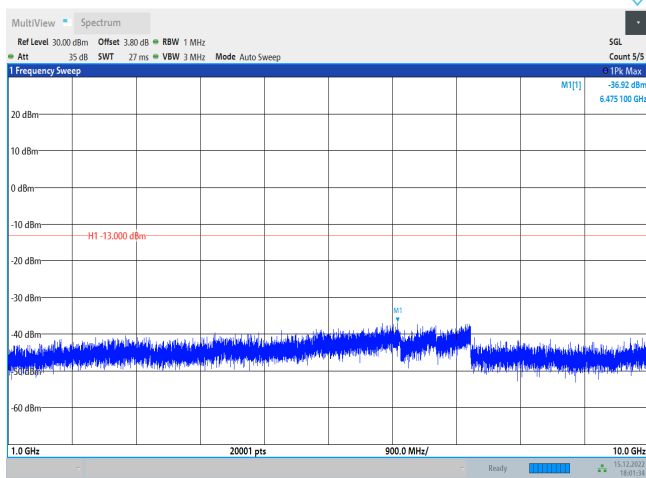
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



18:01:30 15.12.2022

Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



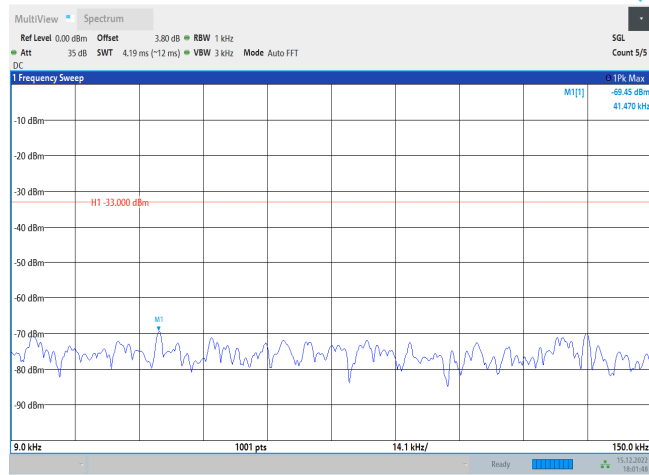
18:01:34 15.12.2022



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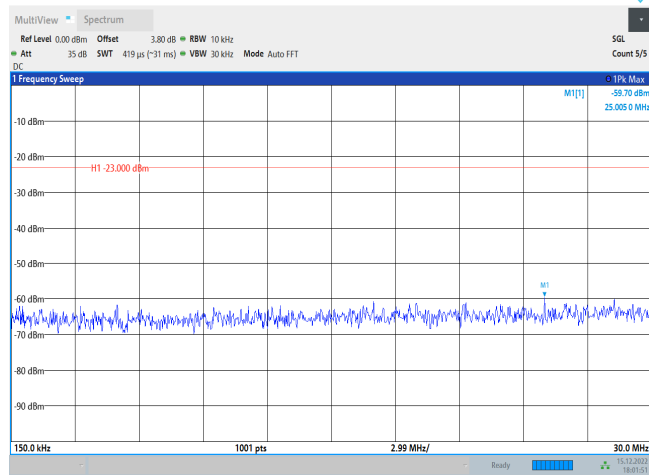
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



18:01:48 15.12.2022

Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



18:01:52 15.12.2022

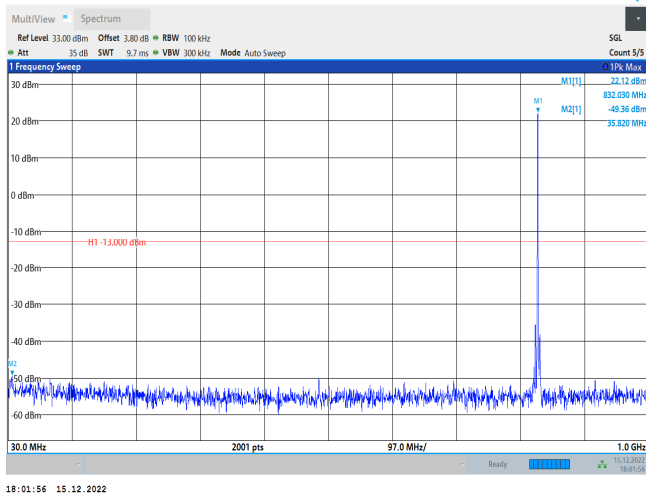


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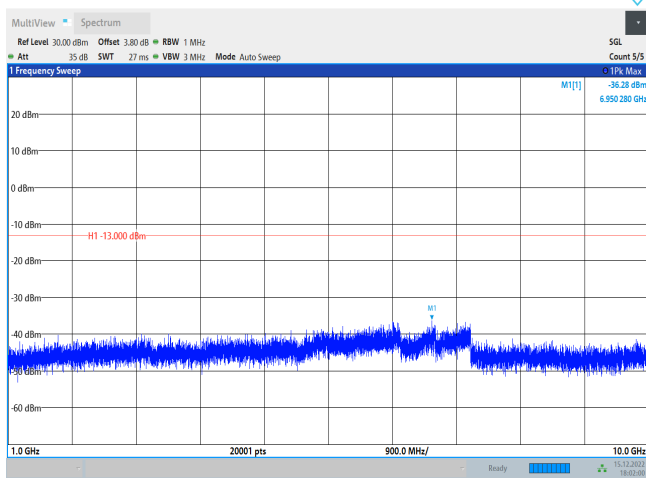
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



18:01:56 15.12.2022

Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



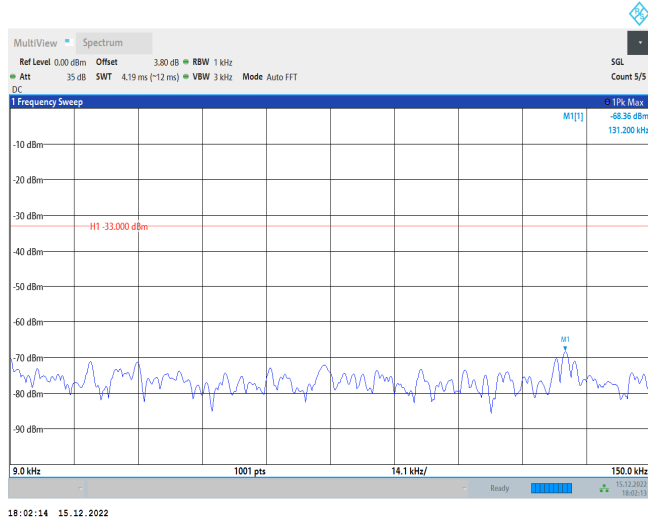
18:02:00 15.12.2022



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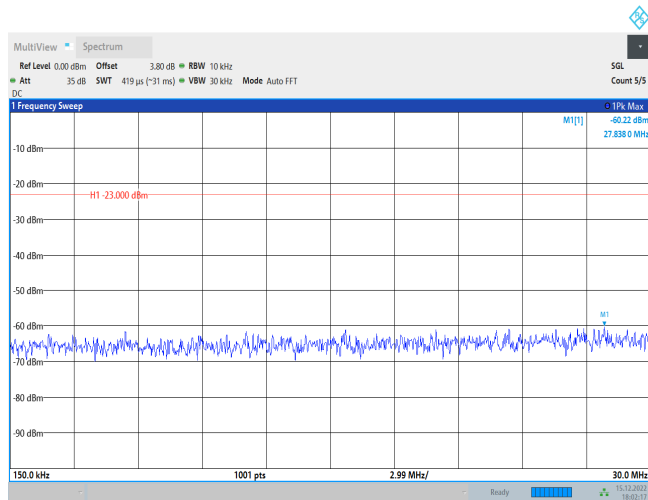


Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



18:02:14 15.12.2022

Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



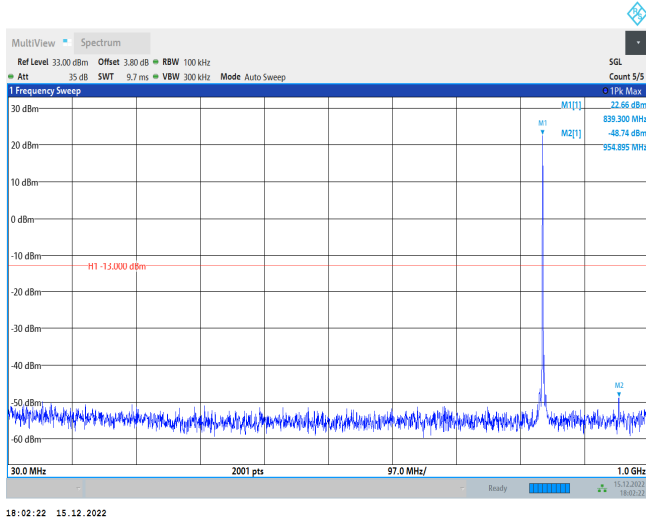
18:02:18 15.12.2022



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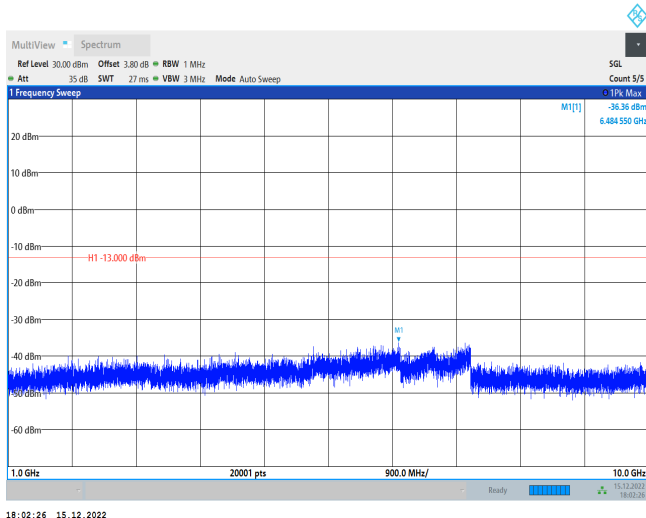
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



18:02:22 15.12.2022

Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



18:02:26 15.12.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band 5 ANT 2\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	51.34	-48.38	25.58	-66.73	-13.00	53.73	185	15	Horizontal
2	2473.77	45.37	-46.96	27.85	-69.00	-13.00	56.00	288	360	Horizontal
3	3298.36	41.95	-46.11	29.48	-69.94	-13.00	56.94	216	136	Horizontal
4	4122.95	40.73	-45.34	30.80	-69.07	-13.00	56.07	306	136	Horizontal
5	4947.54	40.77	-45.08	32.48	-67.10	-13.00	54.10	254	151	Horizontal
6	5772.13	38.31	-43.52	33.47	-67.00	-13.00	54.00	175	257	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2423	60.23	-47.39	27.75	-54.68	-13.00	41.68	201	0	Vertical
2	1649.18	51.47	-48.38	25.58	-66.60	-13.00	53.60	165	318	Vertical
3	2473.77	49.02	-46.96	27.85	-65.35	-13.00	52.35	288	118	Vertical
4	3298.36	41.30	-46.11	29.48	-70.59	-13.00	57.59	253	210	Vertical
5	4122.95	41.10	-45.34	30.80	-68.70	-13.00	55.70	189	210	Vertical
6	4947.54	40.59	-45.08	32.48	-67.28	-13.00	54.28	317	357	Vertical



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**Test Band = LTE Band 5 ANT 2\_ TM1**  
**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	53.36	-48.34	25.57	-64.67	-13.00	51.67	185	3	Horizontal
2	2496.27	44.61	-46.77	27.89	-69.53	-13.00	56.53	233	358	Horizontal
3	3328.36	41.80	-46.16	29.47	-70.15	-13.00	57.15	253	14	Horizontal
4	4160.45	41.80	-45.23	30.86	-67.83	-13.00	54.83	195	28	Horizontal
5	4992.54	39.88	-45.02	32.58	-67.82	-13.00	54.82	324	28	Horizontal
6	5824.63	39.84	-43.43	33.64	-65.21	-13.00	52.21	167	104	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	51.72	-48.34	25.57	-66.31	-13.00	53.31	255	59	Vertical
2	2496.27	50.45	-46.77	27.89	-63.69	-13.00	50.69	188	356	Vertical
3	3328.36	41.85	-46.16	29.47	-70.10	-13.00	57.10	165	74	Vertical
4	4160.45	41.07	-45.23	30.86	-68.56	-13.00	55.56	215	356	Vertical
5	4992.54	39.37	-45.02	32.58	-68.33	-13.00	55.33	321	182	Vertical
6	5824.63	38.97	-43.43	33.64	-66.08	-13.00	53.08	286	59	Vertical



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**Test Band = LTE Band 5 ANT 2\_ TM1**

**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679	54.40	-48.30	25.56	-63.60	-13.00	50.60	185	3	Horizontal
2	2518.77	44.74	-46.84	27.96	-69.39	-13.00	56.39	227	360	Horizontal
3	3358.36	41.17	-46.21	29.46	-70.84	-13.00	57.84	268	181	Horizontal
4	4197.95	41.49	-45.12	30.92	-67.97	-13.00	54.97	196	353	Horizontal
5	5037.54	40.25	-44.85	32.60	-67.26	-13.00	54.26	302	90	Horizontal
6	5887.13	38.89	-43.24	33.84	-65.77	-13.00	52.77	175	3	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	51.44	-48.30	25.56	-66.56	-13.00	53.56	255	314	Vertical
2	2518.77	53.10	-46.84	27.96	-61.03	-13.00	48.03	315	357	Vertical
3	3358.36	41.43	-46.21	29.46	-70.58	-13.00	57.58	213	105	Vertical
4	4197.95	41.04	-45.12	30.92	-68.42	-13.00	55.42	184	330	Vertical
5	5037.54	40.62	-44.85	32.60	-66.89	-13.00	53.89	195	357	Vertical
6	5887.13	38.13	-43.24	33.84	-66.53	-13.00	53.53	235	255	Vertical



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Test Band = UL CA 4A-5A\_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.80	-25.29	25.58	-59.17	-13.00	46.17	185	35	Horizontal
2	2473.77	36.79	-24.01	27.85	-54.63	-13.00	41.63	263	289	Horizontal
3	3298.36	41.74	-45.88	29.48	-69.91	-13.00	56.91	214	112	Horizontal
4	3422.18	52.65	-45.88	29.43	-59.06	-13.00	46.06	306	47	Horizontal
5	5133.27	40.58	-44.24	32.60	-66.32	-13.00	53.32	169	351	Horizontal
6	6844.36	40.59	-42.50	35.89	-61.28	-13.00	48.28	247	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.92	-25.29	25.58	-59.05	-13.00	46.05	306	258	Vertical
2	2473.77	36.68	-24.01	27.85	-54.74	-13.00	41.74	225	1	Vertical
3	3298.36	42.38	-45.88	29.48	-69.27	-13.00	56.27	147	315	Vertical
4	3422.18	50.07	-45.88	29.43	-61.64	-13.00	48.64	169	96	Vertical
5	5133.27	40.14	-44.24	32.60	-66.76	-13.00	53.76	256	215	Vertical
6	6844.36	40.33	-42.50	35.89	-61.54	-13.00	48.54	241	344	Vertical



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Test Band = UL CA 4A-5A\_TM1  
 Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	52.98	-45.82	29.42	-58.68	-13.00	45.68	214	33	Horizontal
2	1664.18	35.79	-25.24	25.57	-59.14	-13.00	46.14	269	1	Horizontal
3	2496.27	36.97	-23.89	27.89	-54.29	-13.00	41.29	163	298	Horizontal
4	3328.36	42.08	-45.89	29.47	-69.61	-13.00	56.61	235	359	Horizontal
5	5170.77	40.62	-44.19	32.60	-66.23	-13.00	53.23	341	81	Horizontal
6	6894.36	40.25	-42.44	35.99	-61.46	-13.00	48.46	147	264	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	49.03	-45.82	29.42	-62.63	-13.00	49.63	228	264	Vertical
2	1664.18	35.61	-25.24	25.57	-59.32	-13.00	46.32	336	216	Vertical
3	2496.27	37.35	-23.89	27.89	-53.91	-13.00	40.91	158	131	Vertical
4	3328.36	41.61	-45.89	29.47	-70.08	-13.00	57.08	225	64	Vertical
5	5170.77	41.11	-44.19	32.60	-65.74	-13.00	52.74	147	33	Vertical
6	6894.36	40.19	-42.44	35.99	-61.52	-13.00	48.52	199	212	Vertical



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**Test Band = UL CA 4A-5A\_TM1**  
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	35.61	-25.19	25.56	-59.28	-13.00	46.28	169	215	Horizontal
2	2518.77	37.36	-23.91	27.96	-53.84	-13.00	40.84	225	0	Horizontal
3	3358.36	41.50	-45.91	29.46	-70.21	-13.00	57.21	316	16	Horizontal
4	3472.18	46.14	-45.76	29.41	-65.47	-13.00	52.47	254	3	Horizontal
5	5208.27	41.03	-44.14	32.60	-65.77	-13.00	52.77	134	360	Horizontal
6	6944.36	39.28	-42.50	36.09	-62.39	-13.00	49.39	247	217	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	35.62	-25.19	25.56	-59.27	-13.00	46.27	196	175	Vertical
2	2518.77	37.39	-23.91	27.96	-53.81	-13.00	40.81	274	123	Vertical
3	3358.36	41.56	-45.91	29.46	-70.15	-13.00	57.15	329	132	Vertical
4	3472.18	49.23	-45.76	29.41	-62.38	-13.00	49.38	247	248	Vertical
5	5208.27	41.10	-44.14	32.60	-65.70	-13.00	52.70	162	282	Vertical
6	6944.36	38.92	-42.50	36.09	-62.75	-13.00	49.75	203	115	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.80	-0.000956	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-40	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-2.20	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	2.20	0.002630	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	60	-0.60	-0.000344	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	75	2.20	0.001261	±2.5	PASS

---End of Attachment---



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