



Report No.: XEWM2309000462RG01

Rev.: 01

Page: 1 of 52

Appendix B.3

LTE Band 4



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 2 of 52

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.77	25.11	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.77	25.11	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.63	24.97	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.73	24.07	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.78	25.12	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.90	25.24	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.77	25.11	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.78	24.12	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.43	24.77	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.60	24.94	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.41	24.75	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.50	23.84	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.76	24.10	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.95	24.29	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.77	24.11	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.75	23.09	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.97	24.31	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.10	24.44	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.97	24.31	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.78	23.12	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.53	23.87	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.74	24.08	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.54	23.88	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.54	22.88	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.70	25.04	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.69	25.03	30.00	PASS



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 3 of 52

Band4	3MHz	QPSK	19965	1RB#14	22.73	25.07	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.73	24.07	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.88	25.22	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.84	25.18	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.84	25.18	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.81	24.15	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.54	24.88	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.53	24.87	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.52	24.86	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.51	23.85	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.92	24.26	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.91	24.25	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.90	24.24	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.77	23.11	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.05	24.39	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.04	24.38	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.04	24.38	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.71	23.05	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.79	24.13	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.72	24.06	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.68	24.02	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.47	22.81	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.73	25.07	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.80	25.14	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.71	25.05	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.79	24.13	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.83	25.17	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.99	25.33	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.83	25.17	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.91	24.25	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.58	24.92	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.63	24.97	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.45	24.79	30.00	PASS



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 4 of 52

Band4	5MHz	QPSK	20375	25RB#0	21.62	23.96	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.72	24.06	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.79	24.13	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.70	24.04	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.80	23.14	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.07	24.41	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.16	24.50	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.10	24.44	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.93	23.27	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.59	23.93	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.63	23.97	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.49	23.83	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.66	23.00	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.71	25.05	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.81	25.15	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.67	25.01	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.79	24.13	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.79	25.13	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.04	25.38	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.85	25.19	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.90	24.24	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.64	24.98	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.74	25.08	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.45	24.79	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.63	23.97	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.88	24.22	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.01	24.35	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.91	24.25	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.70	23.04	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.92	24.26	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.24	24.58	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.03	24.37	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.98	23.32	30.00	PASS



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Rev.: 01

Page: 5 of 52

Band4	10MHz	16QAM	20350	1RB#0	21.91	24.25	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.90	24.24	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.72	24.06	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.63	22.97	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.70	25.04	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.67	25.01	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.71	25.05	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.80	24.14	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.70	25.04	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.88	25.22	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.83	25.17	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.97	24.31	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.69	25.03	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.68	25.02	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.50	24.84	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.80	24.14	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.88	24.22	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.96	24.30	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.91	24.25	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.78	23.12	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.01	24.35	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.14	24.48	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.13	24.47	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.96	23.30	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.90	24.24	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.90	24.24	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.65	23.99	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.72	23.06	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.70	25.04	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.87	25.21	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.85	25.19	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.70	24.04	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.66	25.00	30.00	PASS



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 6 of 52

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Band4	20MHz	QPSK	20175	1RB#99	22.90	25.24	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.88	24.22	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.84	25.18	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.89	25.23	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.56	24.90	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.72	24.06	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.77	24.11	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.00	24.34	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.86	24.20	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.73	23.07	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.90	24.24	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.17	24.51	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.02	24.36	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.86	23.20	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.80	24.14	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.93	24.27	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.58	23.92	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.74	23.08	30.00	PASS



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 7 of 52

Peak-to-Average Ratio(CCDF)

Test Result

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Band4	20MHz	QPSK	20050	100RB#0	5.38	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	7.64	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.40	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.22	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.12	13	PASS



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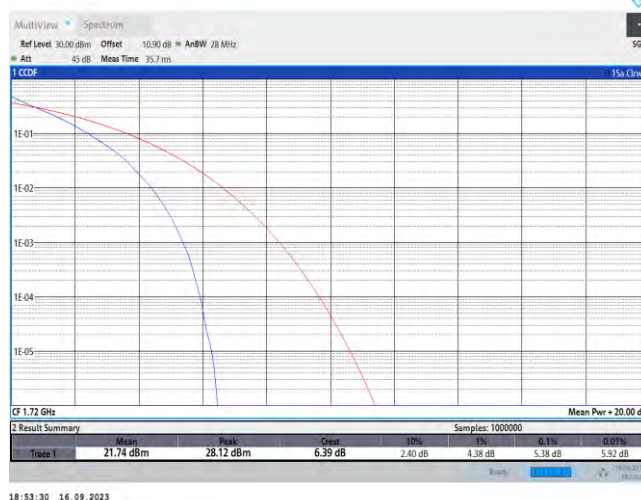
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Rev.: 01

Page: 8 of 52

Test Graphs

Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0



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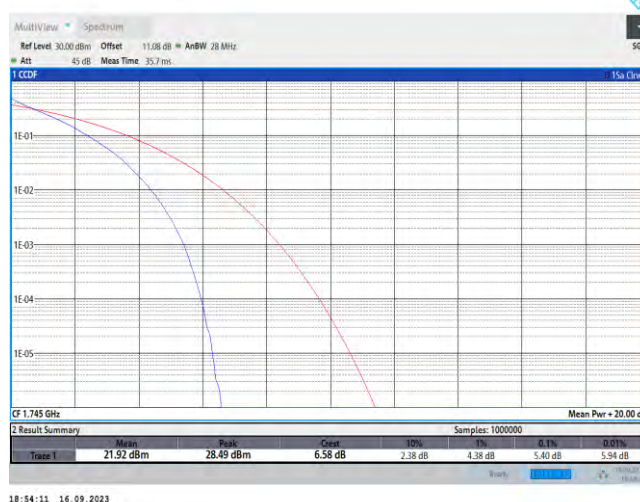
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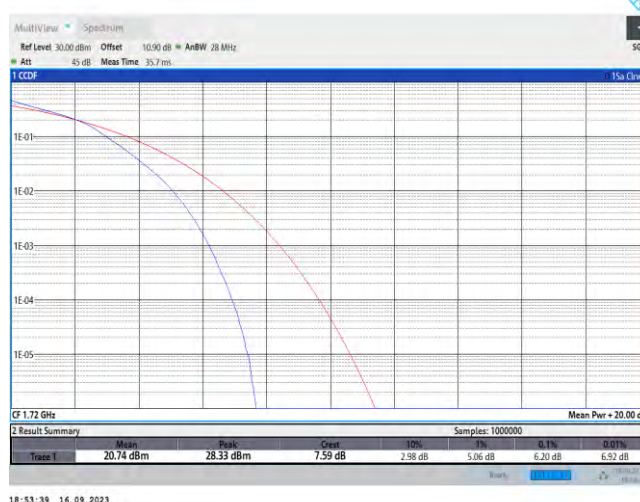
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Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-100RB#0



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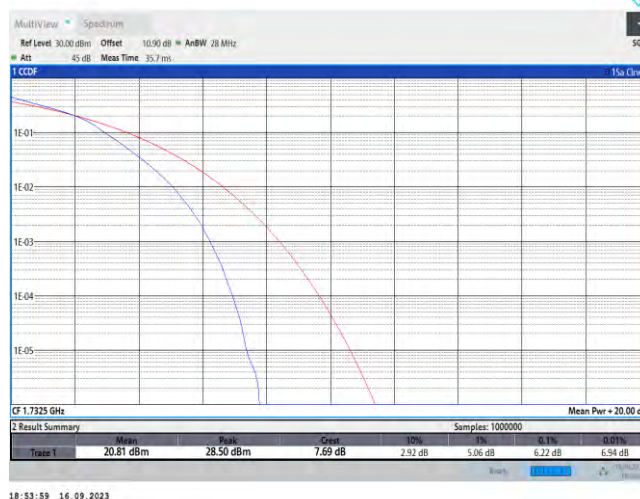
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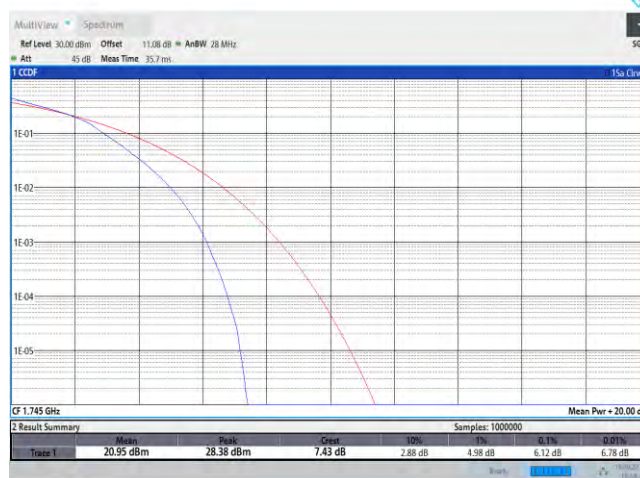
Page: 10 of 52

Band4-20MHz-16QAM-20175-100RB#0



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Band4-20MHz-16QAM-20300-100RB#0



18:54:20 16.09.2023



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 11 of 52

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.086	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.086	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.086	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.096	1.31	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.687	2.89	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.687	2.92	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.686	2.91	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.90	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.68	2.90	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.68	2.91	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.484	4.99	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.489	4.98	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.485	4.99	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.483	4.99	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.98	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.482	5.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.945	9.62	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.945	9.66	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.959	9.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.918	9.60	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.915	9.60	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.918	9.62	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.485	14.73	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.478	14.76	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.499	14.82	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.576	14.55	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.451	14.82	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.472	15.87	PASS



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 12 of 52

Band4	20MHz	QPSK	20050	100RB#0	17.944	20.12	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.945	19.56	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.982	19.44	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.903	19.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.899	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.927	19.40	PASS



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 13 of 52

Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



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Band4-1.4MHz-16QAM-19957-6RB#0



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Rev.: 01

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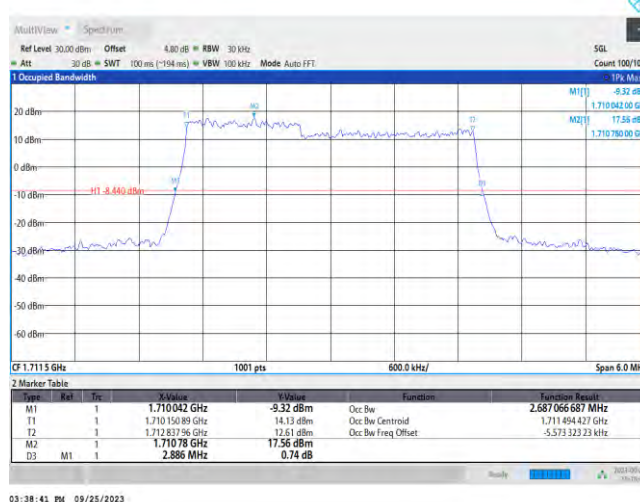
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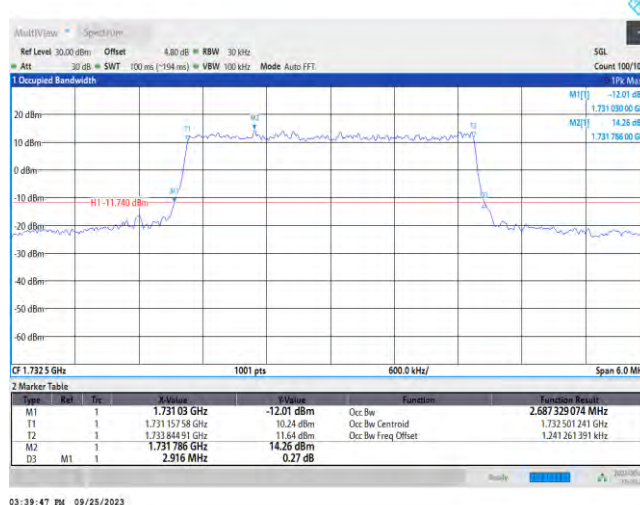
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Band4-3MHz-QPSK-19965-15RB#0



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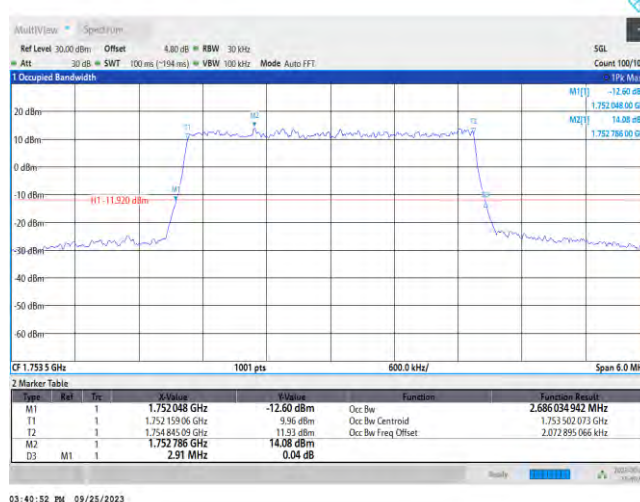
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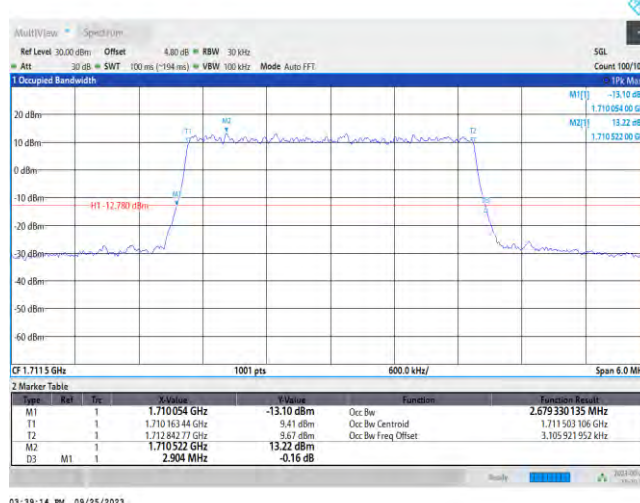
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Band4-3MHz-QPSK-20385-15RB#0



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 19 of 52

Band4-5MHz-QPSK-19975-25RB#0



03:42:39 PM 09/25/2023

Band4-5MHz-QPSK-20175-25RB#0



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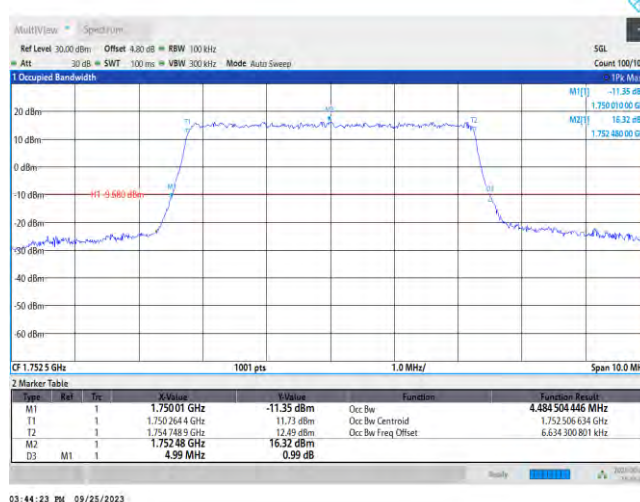
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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 20 of 52

Band4-5MHz-QPSK-20375-25RB#0



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 21 of 52

Band4-5MHz-16QAM-20175-25RB#0



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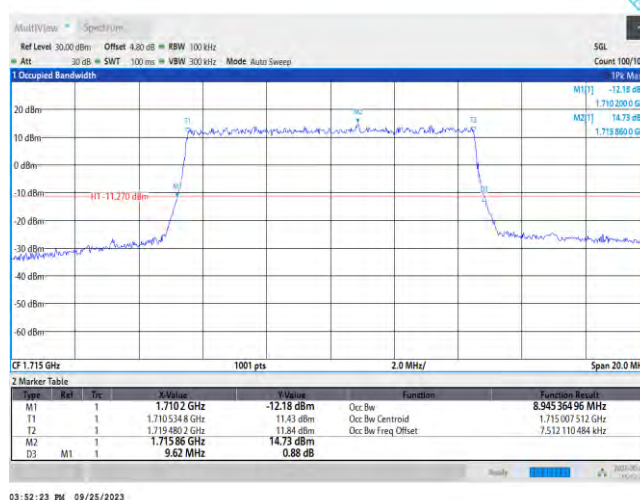
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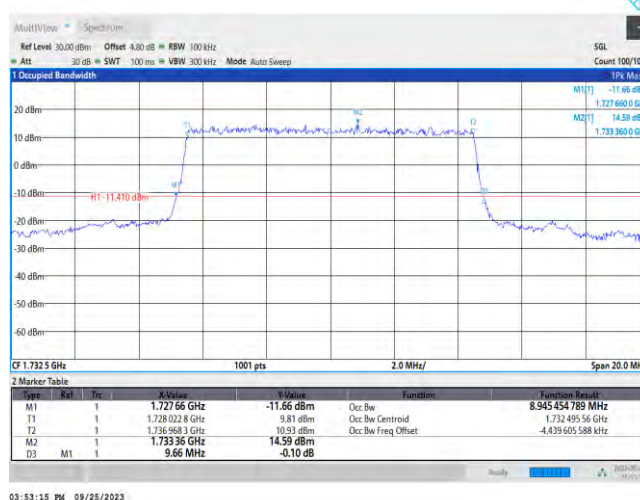
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Page: 22 of 52

Band4-10MHz-QPSK-20000-50RB#0



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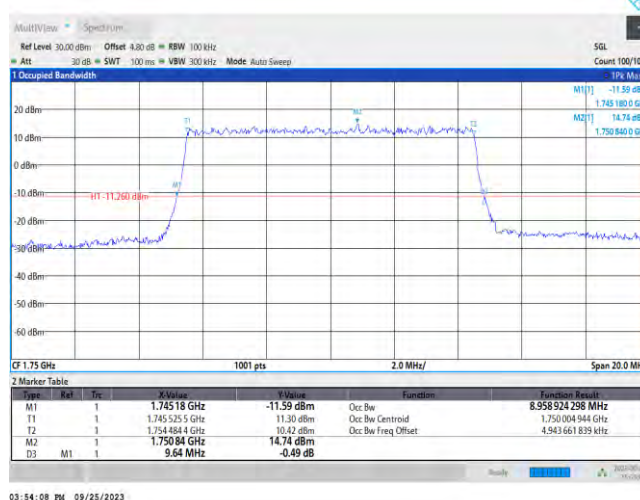
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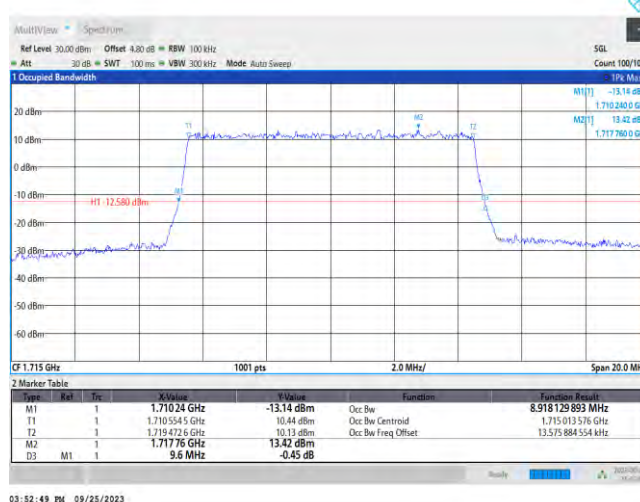
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Page: 23 of 52

Band4-10MHz-QPSK-20350-50RB#0



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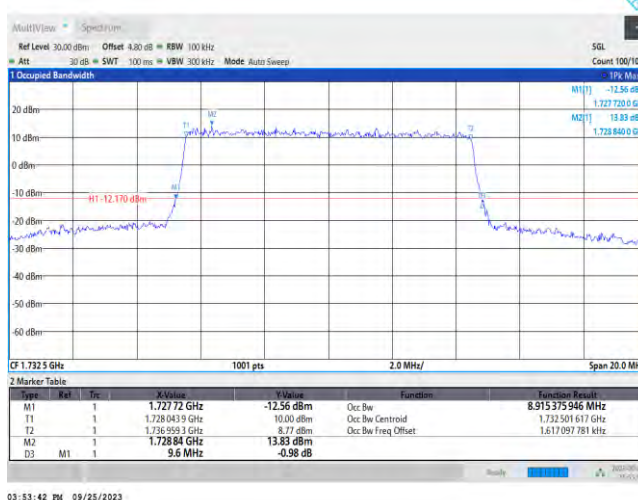
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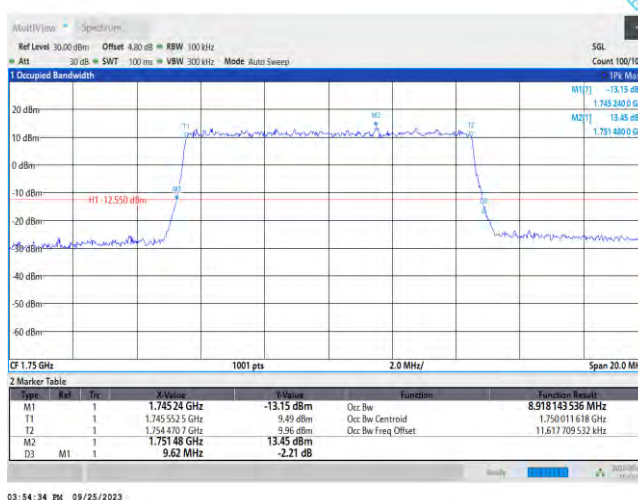
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Band4-10MHz-16QAM-20175-50RB#0



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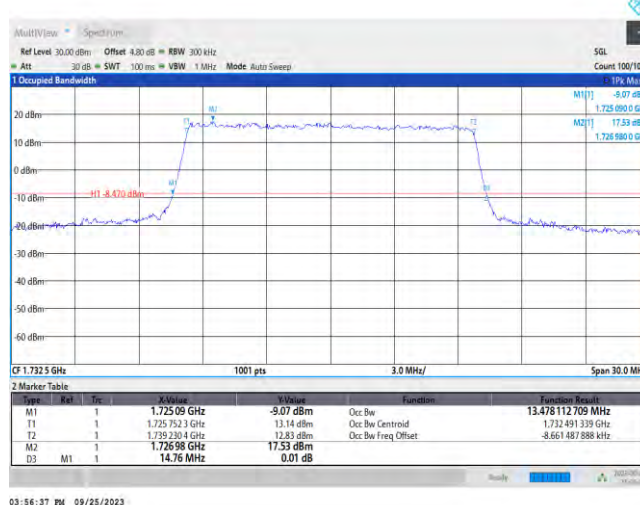
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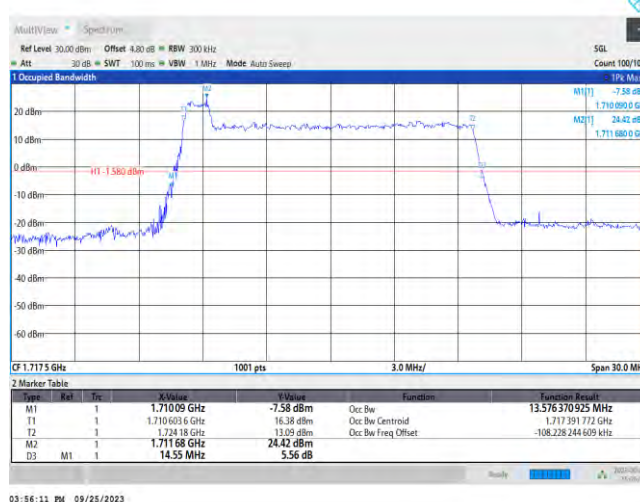
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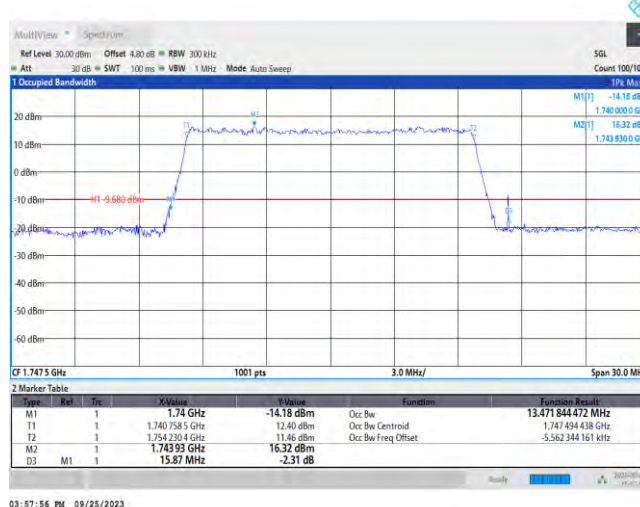
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Rev.: 01

Page: 28 of 52

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Rev.: 01

Page: 29 of 52

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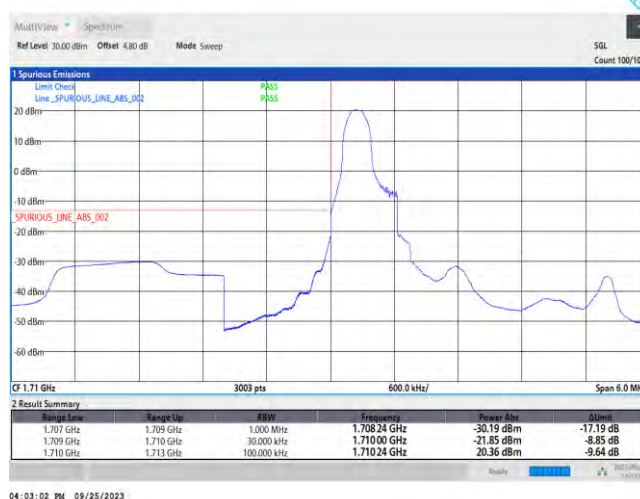
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Page: 31 of 52

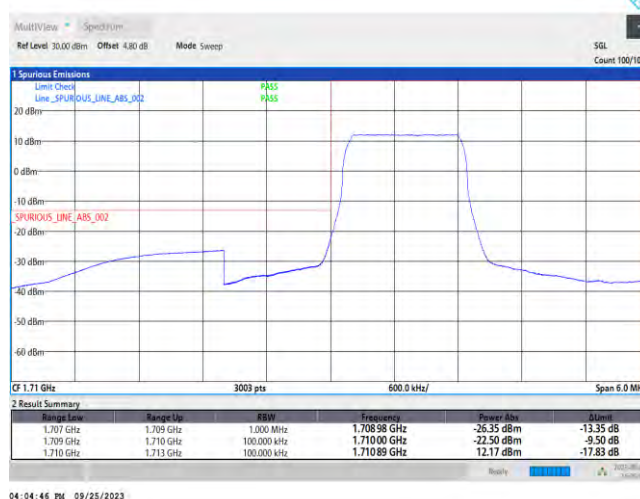
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Test Graphs

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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 32 of 52

Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0



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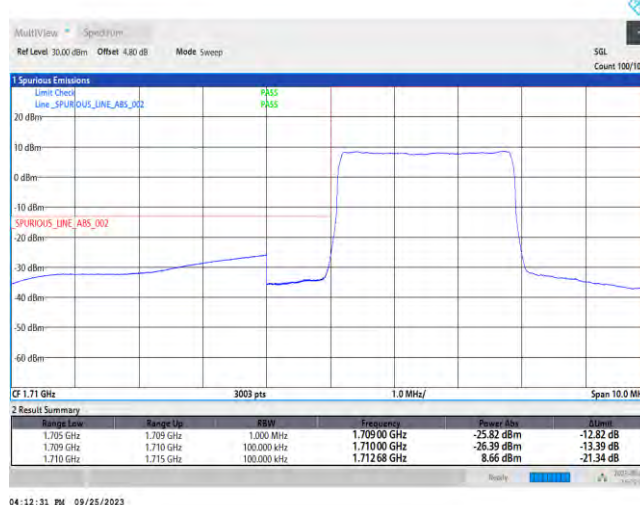
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Page: 33 of 52

Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



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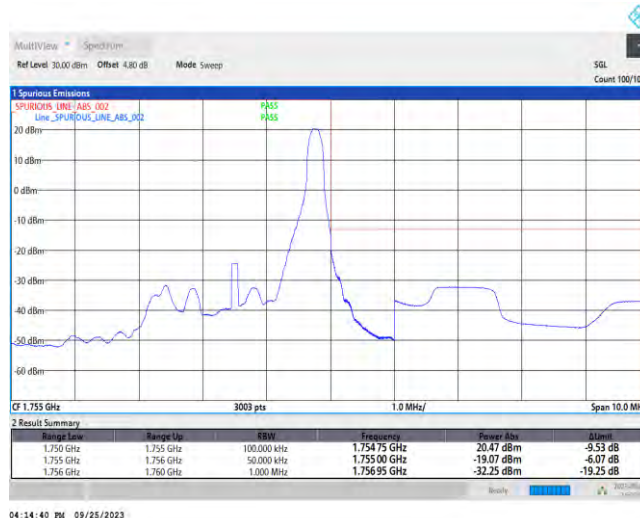
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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 34 of 52

Band4-3MHz-QPSK-20385-1RB#14



Band4-3MHz-QPSK-20385-15RB#0



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Rev.: 01

Page: 35 of 52

Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0



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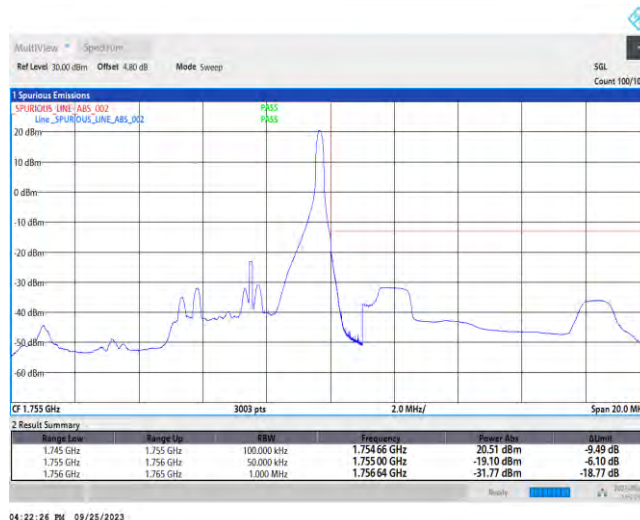
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Rev.: 01

Page: 36 of 52

Band4-5MHz-QPSK-20375-1RB#24



Band4-5MHz-QPSK-20375-25RB#0



Report No.: XEWM2309000462RG01

Rev.: 01

Page: 37 of 52

Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0



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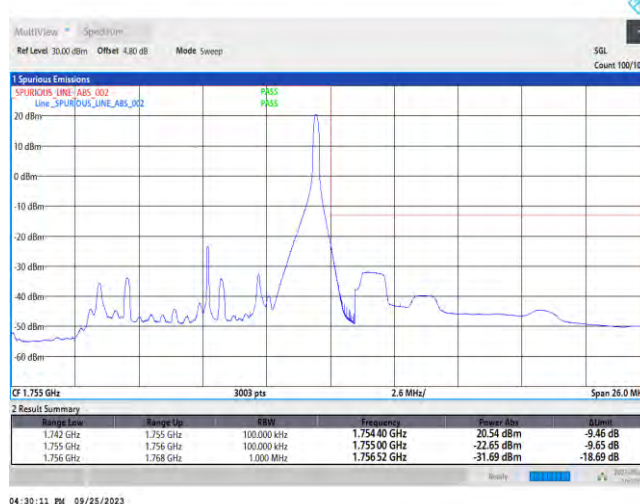
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Page: 38 of 52

Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0



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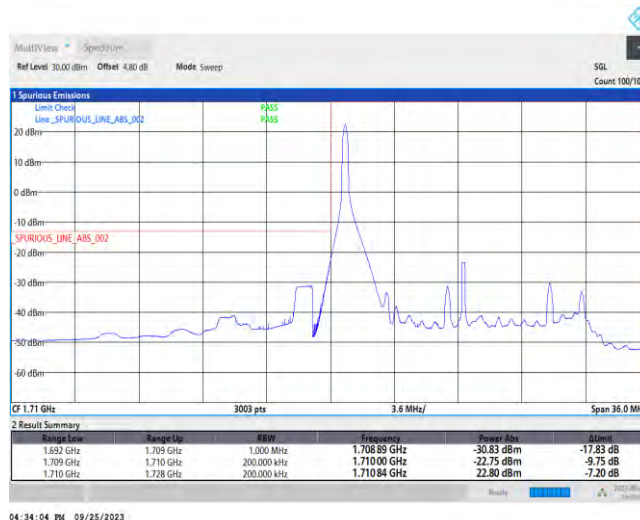
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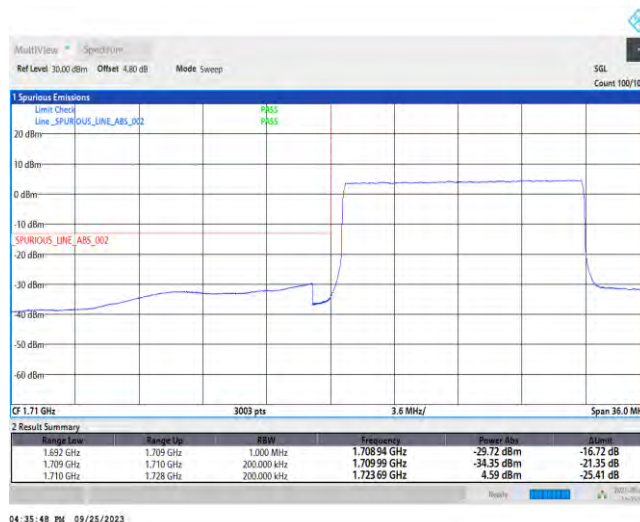
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



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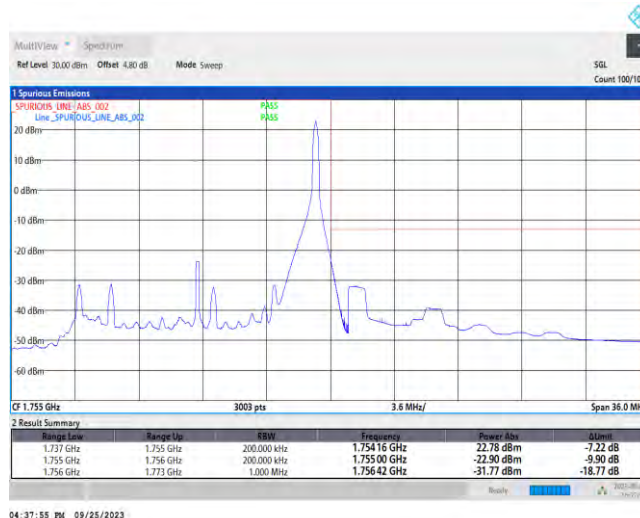
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Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0



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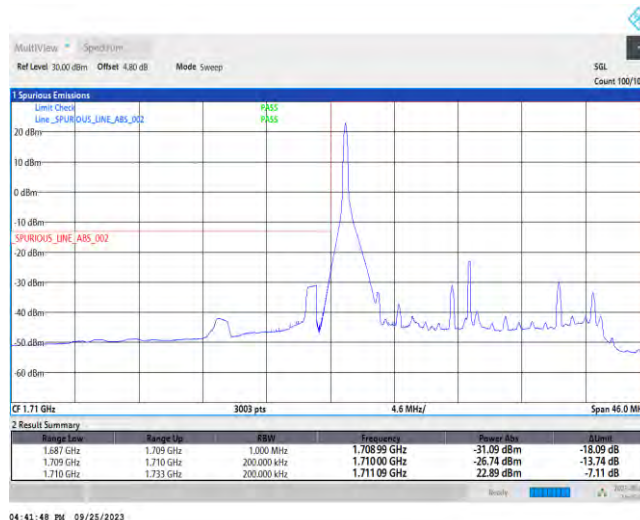
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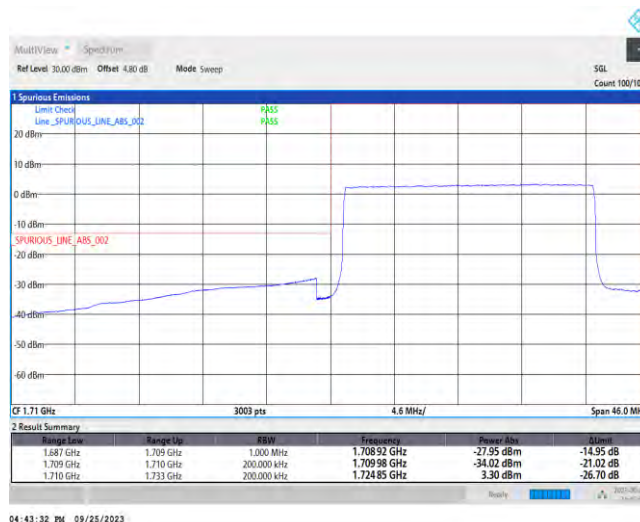
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0



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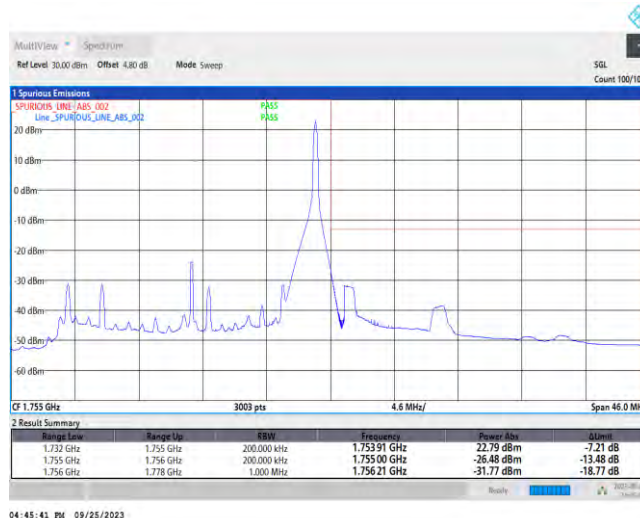
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Band4-20MHz-QPSK-20300-100RB#0



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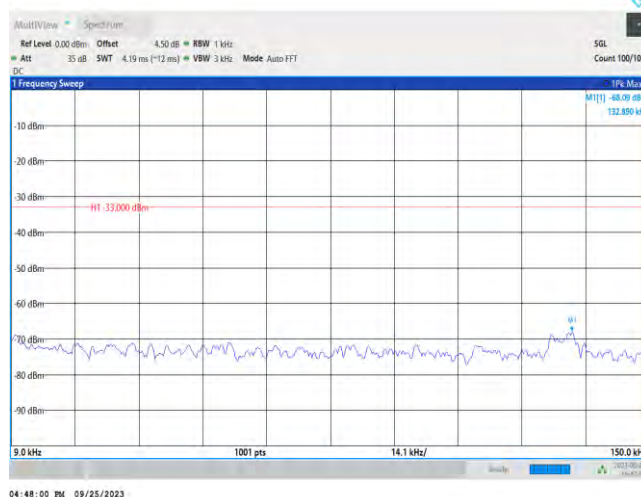
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Rev.: 01
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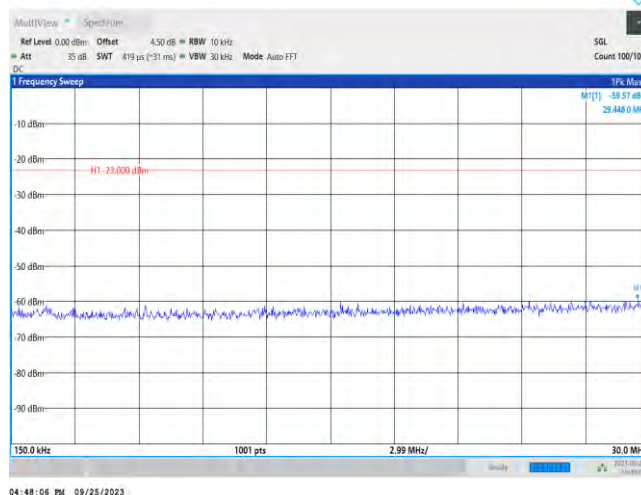
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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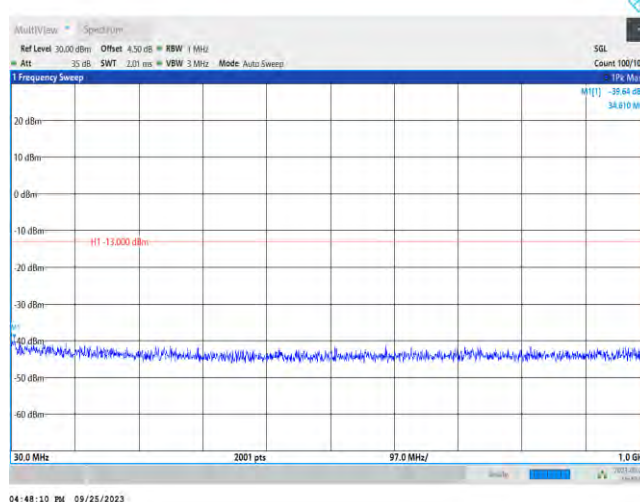
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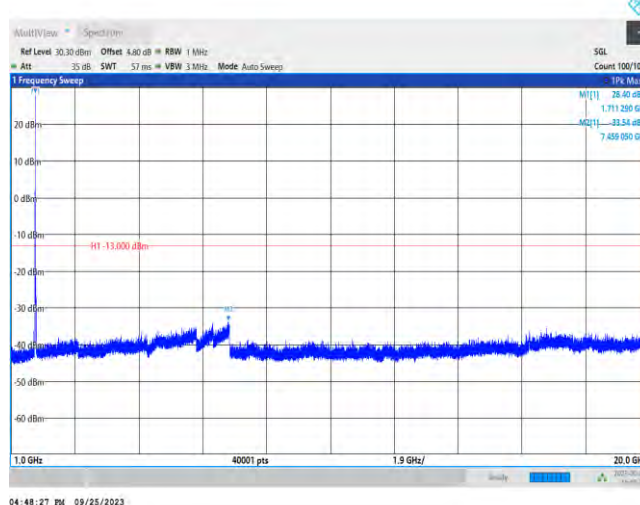
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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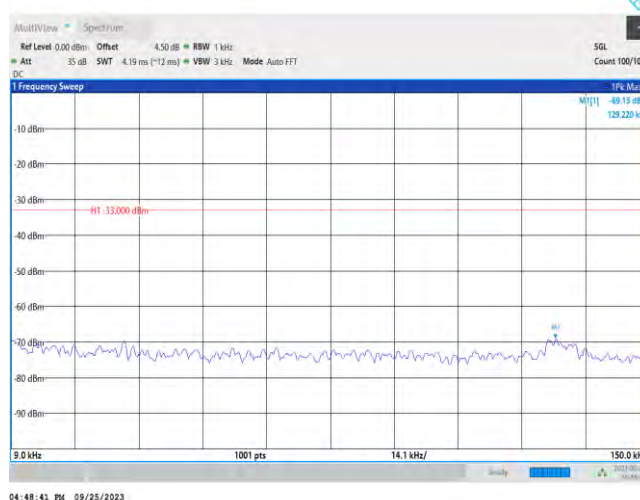
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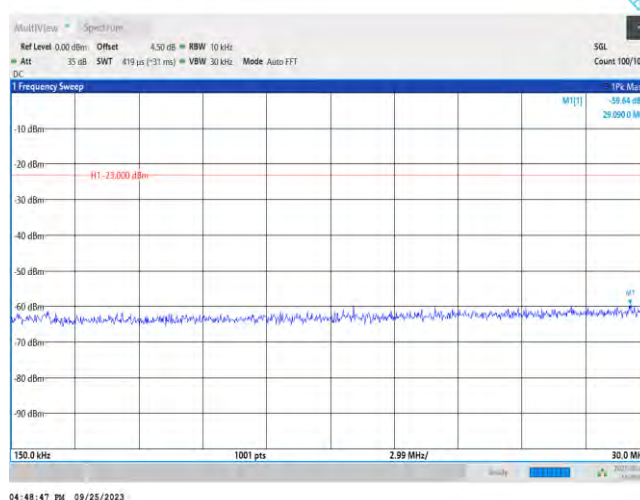
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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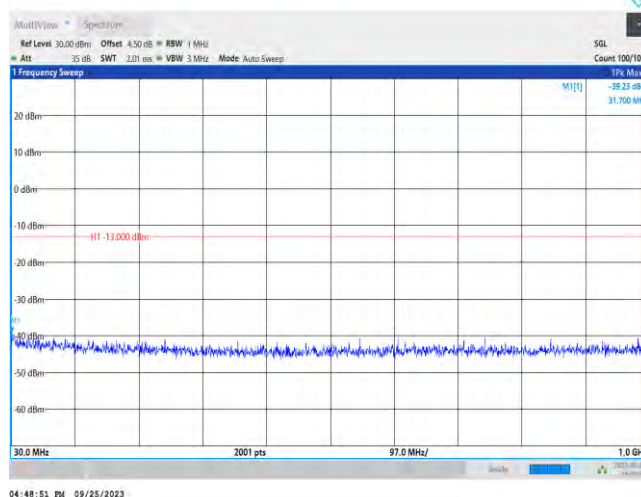
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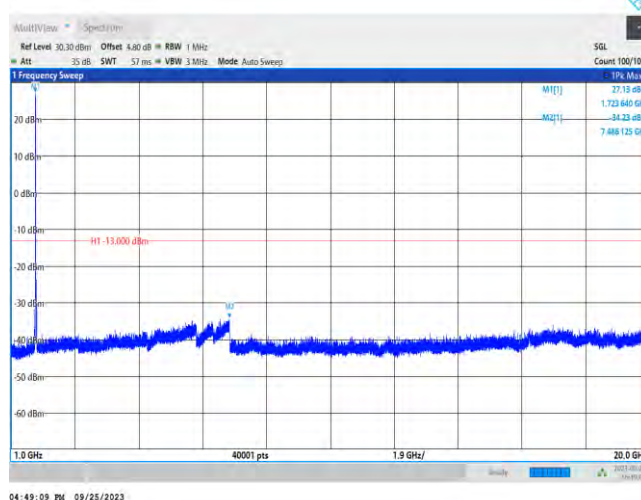
Rev.: 01

Page: 46 of 52

Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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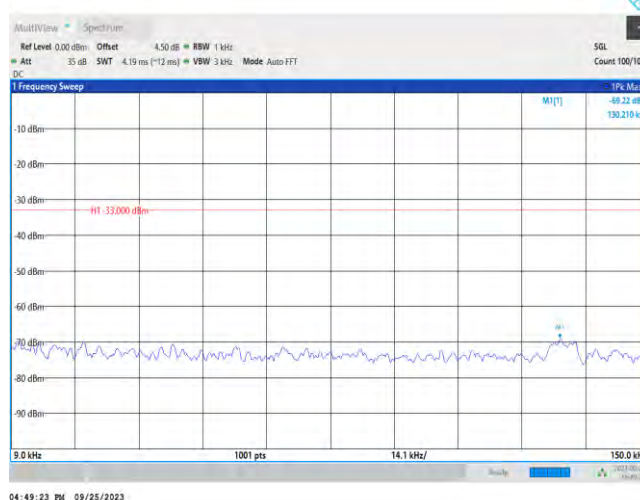
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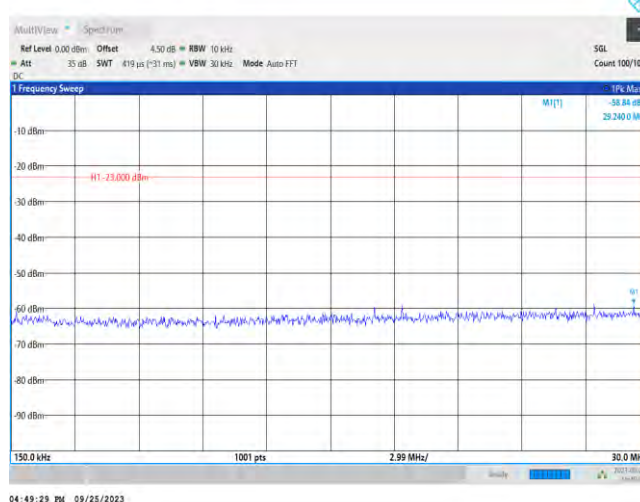
Rev.: 01

Page: 47 of 52

Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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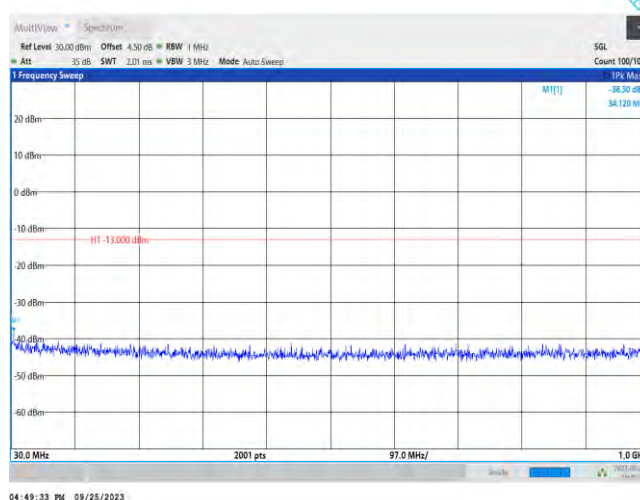
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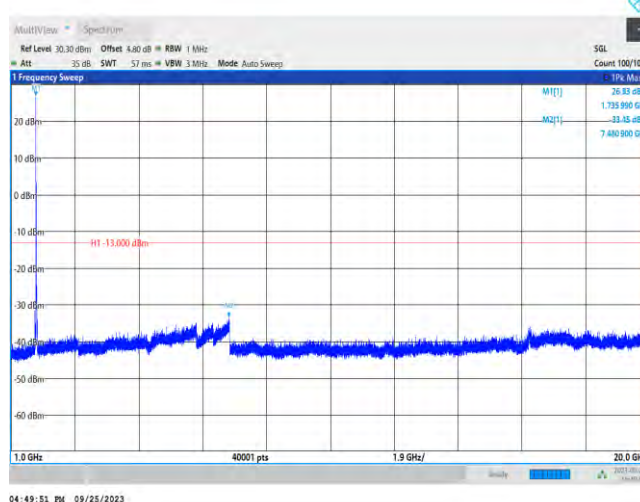
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Page: 48 of 52

Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 49 of 52

Field Strength of Spurious Radiation

Test Band = LTE_4

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999.5	37.27	-17.44	28.60	-46.83	-13.00	33.83	Horizontal
2	3422	53.08	-45.33	28.73	-58.78	-13.00	45.78	Horizontal
3	5524.5	50.23	-41.75	32.30	-54.48	-13.00	41.48	Horizontal
4	9885	42.39	-35.08	38.48	-49.47	-13.00	36.47	Horizontal
5	13560.5	43.45	-37.90	40.02	-49.69	-13.00	36.69	Horizontal
6	17993.5	41.54	-43.09	48.08	-48.73	-13.00	35.73	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998	37.56	-17.44	28.59	-46.55	-13.00	33.55	Vertical
2	3422	54.86	-45.33	28.73	-57.00	-13.00	44.00	Vertical
3	5524.5	48.68	-41.75	32.30	-56.03	-13.00	43.03	Vertical
4	7387.5	44.16	-38.36	36.65	-52.81	-13.00	39.81	Vertical
5	9915.5	42.65	-35.37	38.62	-49.36	-13.00	36.36	Vertical
6	16489	42.57	-35.53	39.25	-48.97	-13.00	35.97	Vertical



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Report No.: XEWM2309000462RG01

Rev.: 01

Page: 50 of 52

Test Band = LTE_4

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2997	37.35	-17.43	28.58	-46.76	-13.00	33.76	Horizontal
2	3447	51.13	-45.26	28.88	-60.51	-13.00	47.51	Horizontal
3	5524.5	50.00	-41.75	32.30	-54.71	-13.00	41.71	Horizontal
4	7391	44.18	-38.33	36.66	-52.75	-13.00	39.75	Horizontal
5	9910.5	42.41	-35.24	38.61	-49.48	-13.00	36.48	Horizontal
6	17998.5	40.90	-43.05	48.17	-49.24	-13.00	36.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999	37.77	-17.44	28.59	-46.34	-13.00	33.34	Vertical
2	3447.5	51.34	-45.26	28.89	-60.29	-13.00	47.29	Vertical
3	5524.5	49.59	-41.75	32.30	-55.12	-13.00	42.12	Vertical
4	7888.5	43.25	-37.53	36.57	-52.97	-13.00	39.97	Vertical
5	10975.5	42.66	-37.09	40.12	-49.57	-13.00	36.57	Vertical
6	17984.5	41.42	-43.16	47.92	-49.08	-13.00	36.08	Vertical



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Rev.: 01

Page: 51 of 52

Test Band = LTE_4

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2997.5	37.48	-17.44	28.59	-46.63	-13.00	33.63	Horizontal
2	3472	49.22	-45.19	28.99	-62.24	-13.00	49.24	Horizontal
3	5524.5	50.93	-41.75	32.30	-53.78	-13.00	40.78	Horizontal
4	9908.5	42.08	-35.18	38.61	-49.75	-13.00	36.75	Horizontal
5	13554.5	42.82	-37.91	40.01	-50.34	-13.00	37.34	Horizontal
6	17994	41.23	-43.09	48.09	-49.03	-13.00	36.03	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2971.5	37.22	-17.14	28.43	-46.75	-13.00	33.75	Vertical
2	3472	50.89	-45.19	28.99	-60.57	-13.00	47.57	Vertical
3	5524.5	49.08	-41.75	32.30	-55.63	-13.00	42.63	Vertical
4	11077	42.83	-37.45	40.18	-49.70	-13.00	36.70	Vertical
5	13581	42.79	-37.87	40.06	-50.28	-13.00	37.28	Vertical
6	17986	41.27	-43.15	47.95	-49.19	-13.00	36.19	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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Rev.: 01

Page: 52 of 52

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-14.88	-0.008589	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	8.64	0.004987	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-15.25	-0.008802	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-5.87	-0.003388	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-12.40	-0.007157	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-13.68	-0.007896	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-18.00	-0.010390	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-13.78	-0.007954	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-15.25	-0.008802	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-15.02	-0.008670	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-17.68	-0.010205	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-20.67	-0.011931	PASS

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