Appendix B.21

NR Band n30

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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
N30	15	5	DFT-QPSK	L	Inner_1RB_Left	21.81	20.81	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Left	20.97	19.97	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Left	22.01	21.01	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Left	21.12	20.12	23.98	PASS
N30	15	5	DFT-QPSK	H	Inner_1RB_Left	22.23	21.23	23.98	PASS
N30	15	5	DFT-16QAM	H	Inner_1RB_Left	21.18	20.18	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	21.90	20.9	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	21.85	20.85	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	21.63	20.63	23.98	PASS
N30	15	10	DFT-QPSK	L	Inner_1RB_Left	22.15	21.15	23.98	PASS
N30	15	10	DFT-QPSK	L	Inner_1RB_Right	22.35	21.35	23.98	PASS
N30	15	10	DFT-QPSK	L	Outer_Full	21.40	20.4	23.98	PASS
N30	15	10	DFT-16QAM	L	Inner_1RB_Left	21.11	20.11	23.98	PASS
N30	15	10	DFT-16QAM	L	Inner_1RB_Right	21.29	20.29	23.98	PASS
N30	15	10	DFT-16QAM	L	Outer_Full	20.35	19.35	23.98	PASS
N30	15	10	DFT-64QAM	L	Inner_1RB_Left	20.03	19.03	23.98	PASS
N30	15	10	DFT-64QAM	L	Inner_1RB_Right	20.24	19.24	23.98	PASS
N30	15	10	DFT-64QAM	L	Outer_Full	19.82	18.82	23.98	PASS
N30	15	10	DFT-256QAM	L	Inner_1RB_Left	17.64	16.64	23.98	PASS
N30	15	10	DFT-256QAM	L	Inner_1RB_Right	17.70	16.7	23.98	PASS
N30	15	10	DFT-256QAM	L	Outer_Full	17.83	16.83	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	21.69	20.69	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	22.03	21.03	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	21.61	20.61	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Left	22.24	21.24	23.98	PASS
N30	15	10	DFT-QPSK	M	Inner_1RB_Right	22.31	21.31	23.98	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	21.41	20.41	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Left	20.91	19.91	23.98	PASS
N30	15	10	DFT-16QAM	M	Inner_1RB_Right	21.27	20.27	23.98	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	20.45	19.45	23.98	PASS

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N30	15	10	DFT-64QAM	M	Inner_1RB_Left	19.98	18.98	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Right	20.17	19.17	23.98	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	19.92	18.92	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Left	17.67	16.67	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Right	17.66	16.66	23.98	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	17.71	16.71	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	21.83	20.83	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	22.17	21.17	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	21.61	20.61	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Left	22.25	21.25	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Right	22.19	21.19	23.98	PASS
N30	15	10	DFT-QPSK	H	Outer_Full	21.26	20.26	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Left	21.13	20.13	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Right	21.25	20.25	23.98	PASS
N30	15	10	DFT-16QAM	H	Outer_Full	20.42	19.42	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Left	20.21	19.21	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Right	20.18	19.18	23.98	PASS
N30	15	10	DFT-64QAM	H	Outer_Full	19.79	18.79	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Left	17.51	16.51	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Right	17.79	16.79	23.98	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	17.87	16.87	23.98	PASS

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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N30	15	10	DFT-256QAM	L	Outer_Full	8.60	≤13	PASS
N30	15	10	CP-256QAM	L	Outer_Full	9.82	≤13	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.62	≤13	PASS
N30	15	10	CP-256QAM	M	Outer_Full	10.13	≤13	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	8.62	≤13	PASS
N30	15	10	CP-256QAM	H	Outer_Full	9.99	≤13	PASS

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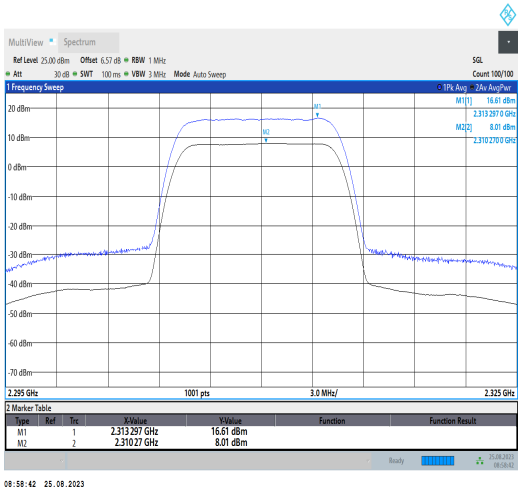
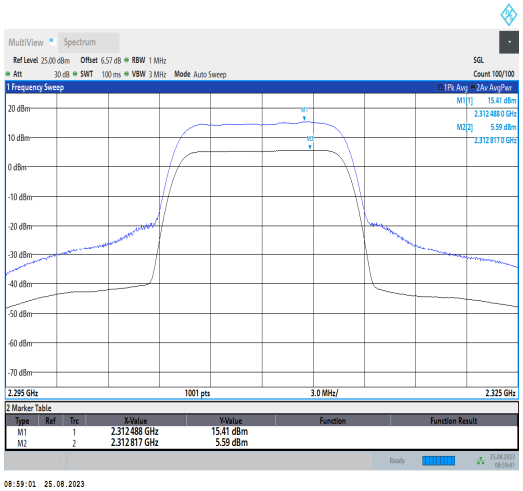
Test Graphs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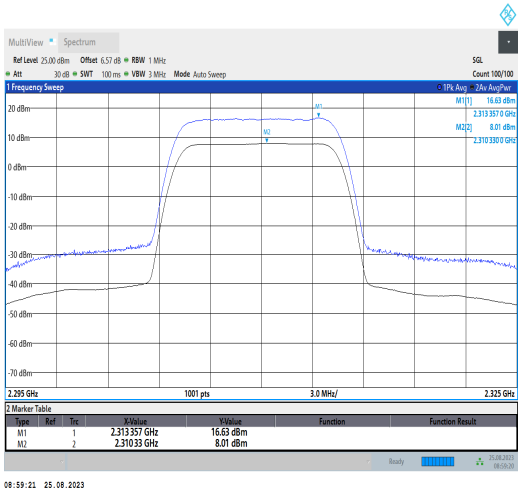	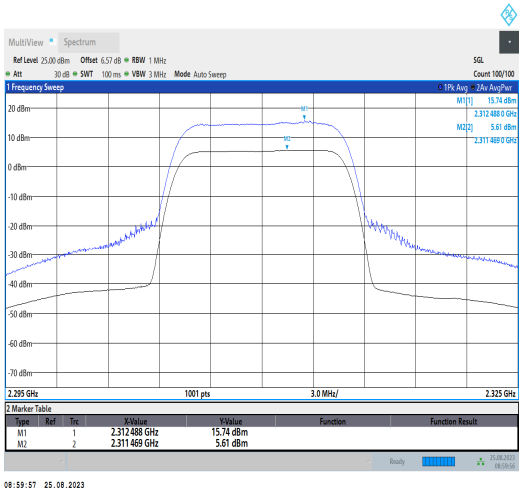
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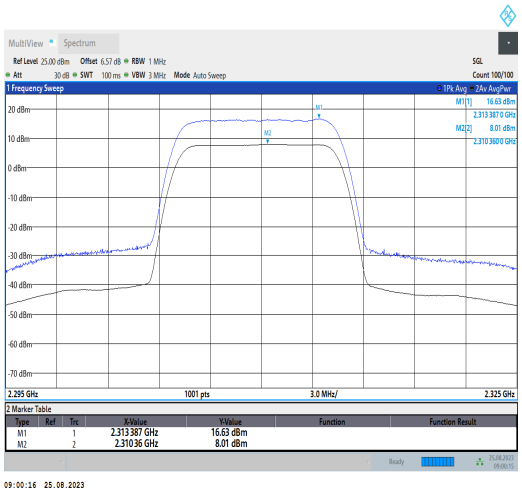	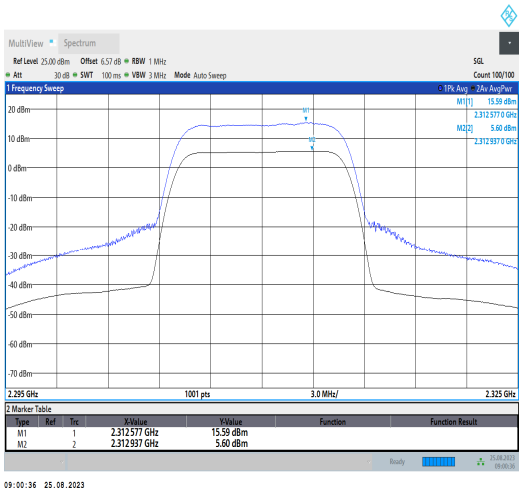
1-N30-PC3-15-10-H-1-DFT-256QAM-Outer_Full-50@0-Ant3-8.62-100%-0.00-8.62-PASS-≤13	1-N30-PC3-15-10-H-2-CP-256QAM-Outer_Full-52@0-Ant3-9.99-100%-0.00-9.99-PASS-≤13

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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N30	15	5	DFT-QPSK	M	Outer_Full	4.464	4.750	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	4.466	4.770	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	4.465	4.770	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	4.453	4.810	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	4.466	4.810	PASS
N30	15	5	CP-QPSK	M	Outer_Full	4.467	4.760	PASS
N30	15	5	CP-16QAM	M	Outer_Full	4.479	4.810	PASS
N30	15	5	CP-64QAM	M	Outer_Full	4.472	4.800	PASS
N30	15	5	CP-256QAM	M	Outer_Full	4.469	4.810	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	8.913	9.380	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	8.911	9.420	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	8.928	9.360	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	8.9	9.360	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.944	9.400	PASS
N30	15	10	CP-QPSK	M	Outer_Full	9.286	9.680	PASS
N30	15	10	CP-16QAM	M	Outer_Full	9.273	9.800	PASS
N30	15	10	CP-64QAM	M	Outer_Full	9.308	9.760	PASS
N30	15	10	CP-256QAM	M	Outer_Full	9.292	9.680	PASS

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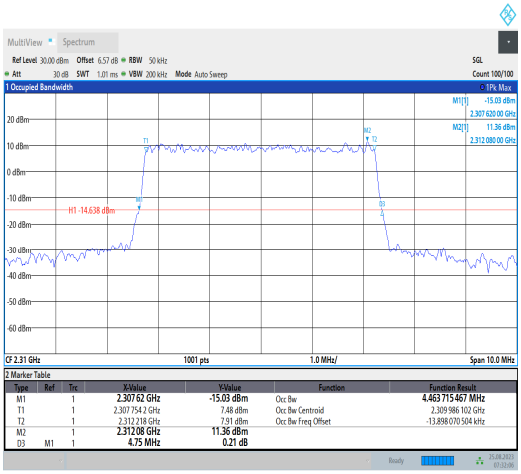
Test Graphs



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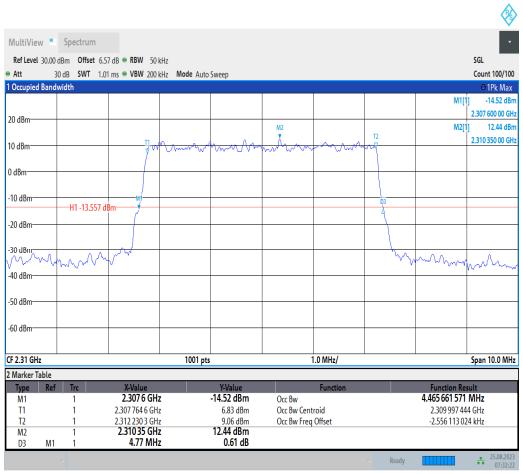

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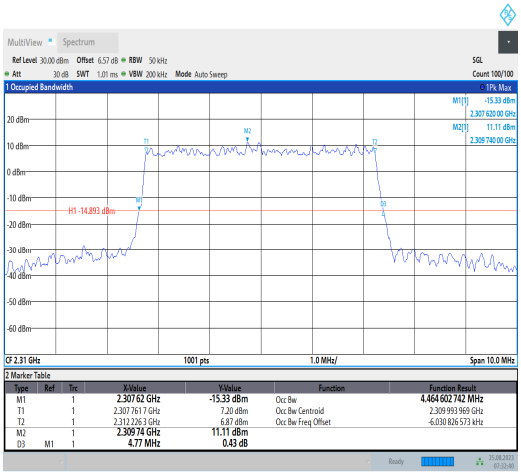

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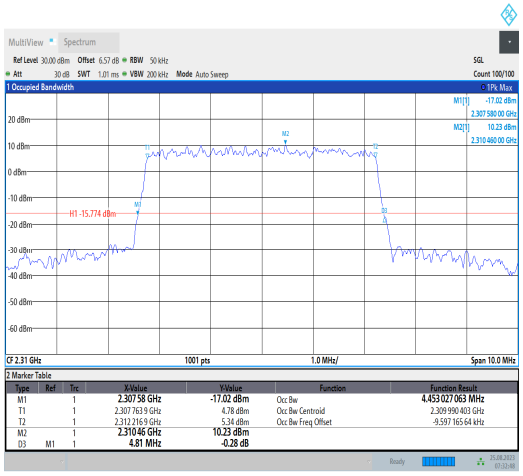

1-N30-PC3-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant3-4.453-4.810-≤5-PASS

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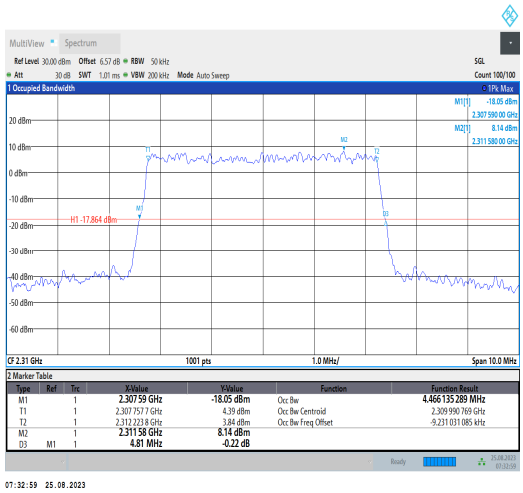

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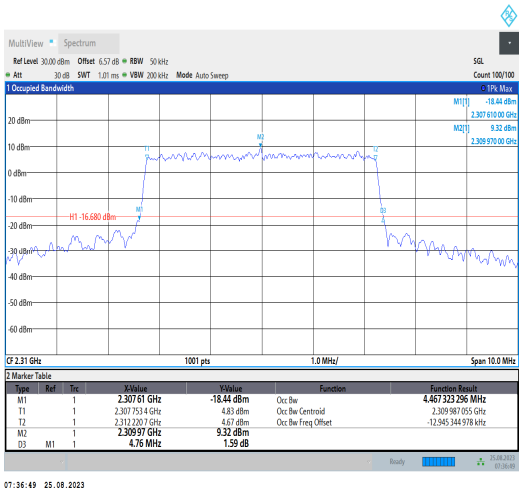

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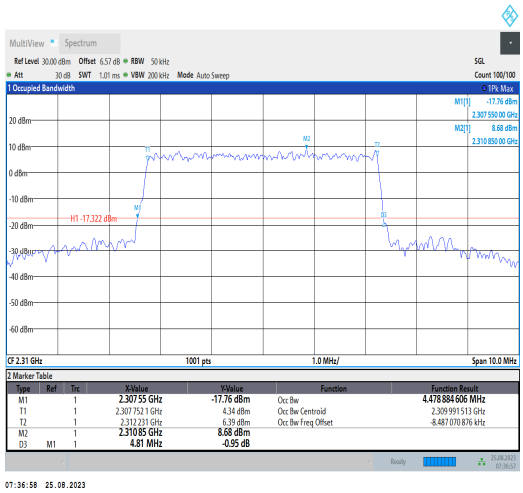

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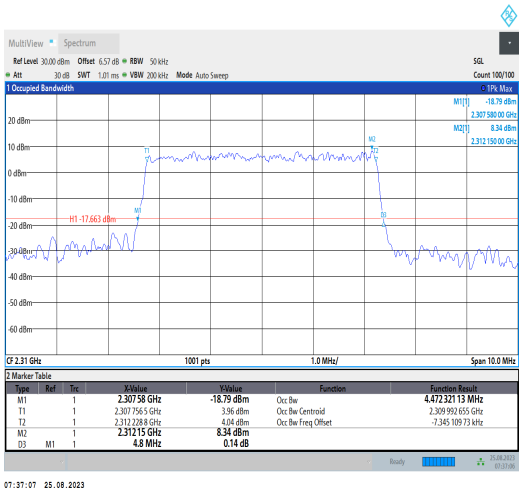

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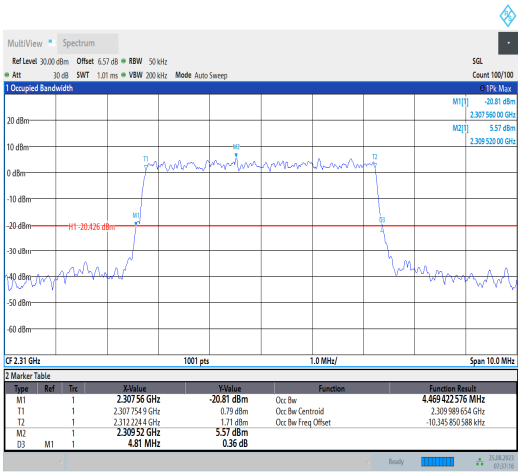

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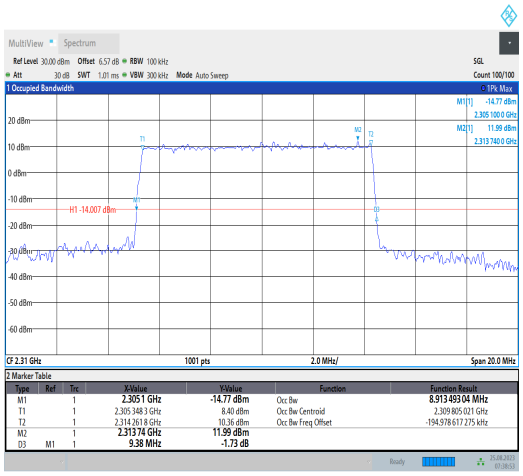

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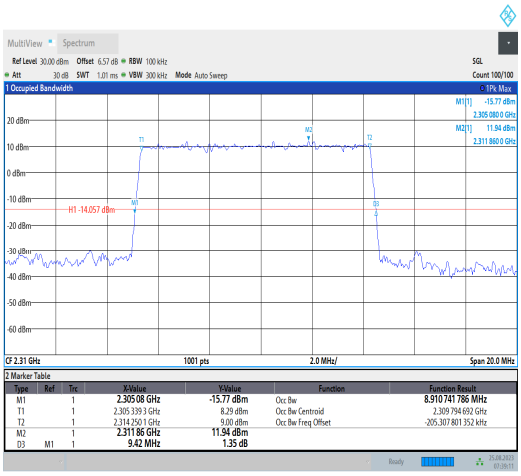

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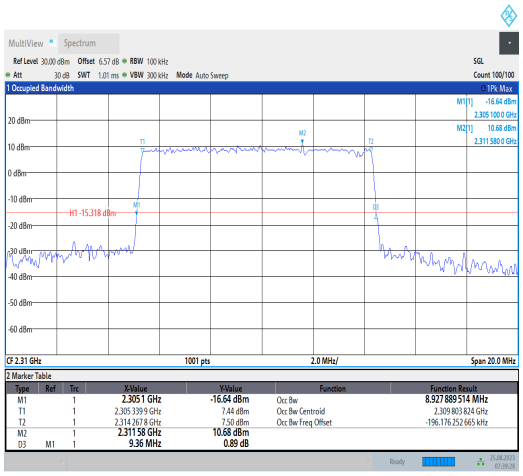

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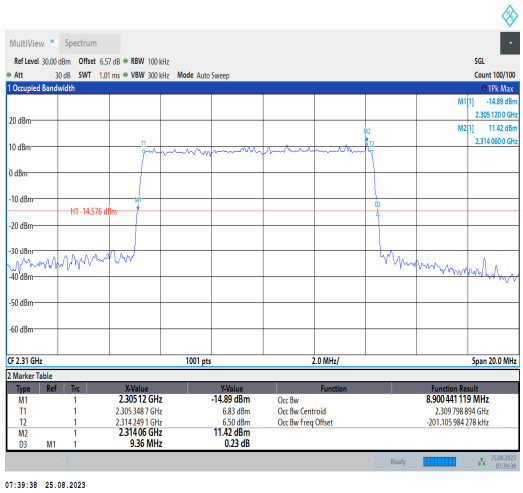

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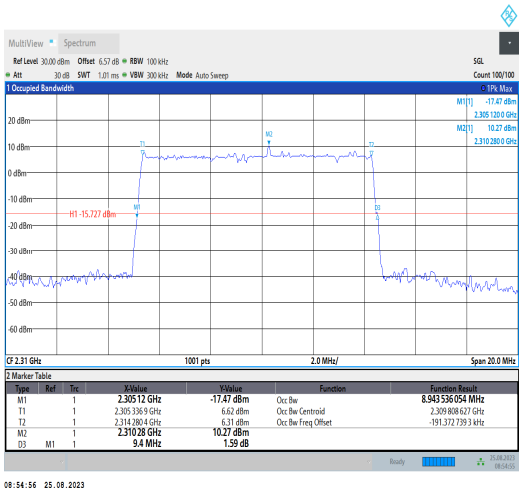

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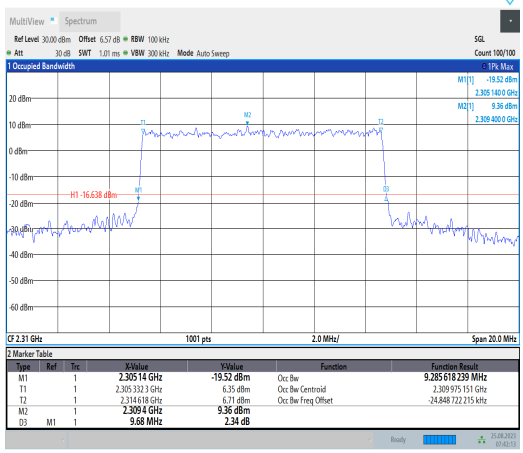

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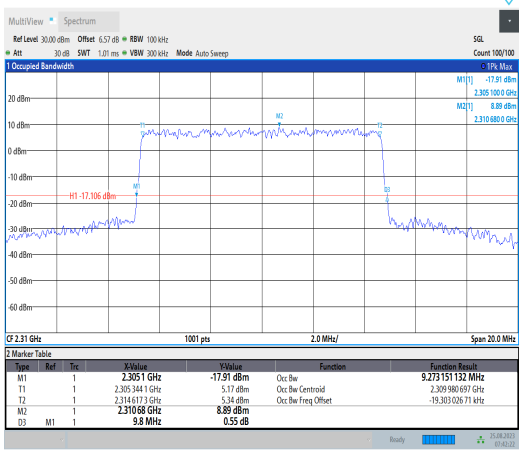

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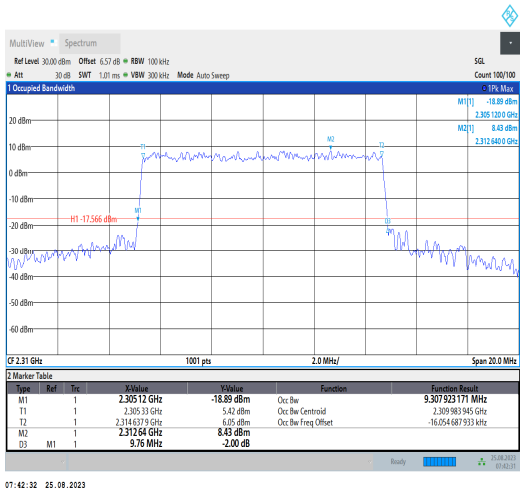	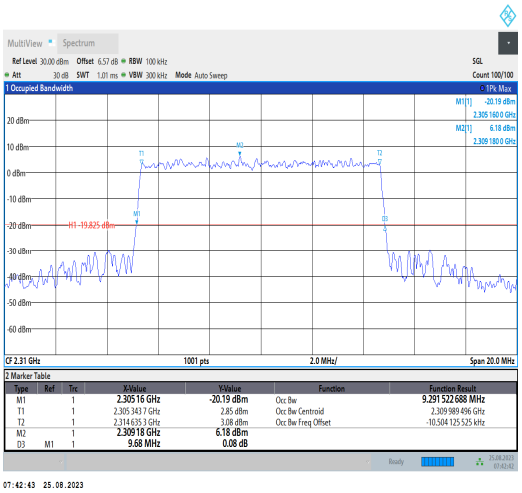
1-N30-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant3-9.308-9.760-≤10-PASS	1-N30-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant3-9.292-9.680-≤10-PASS

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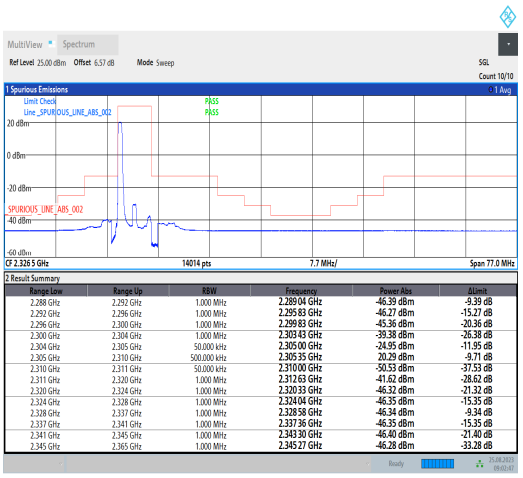
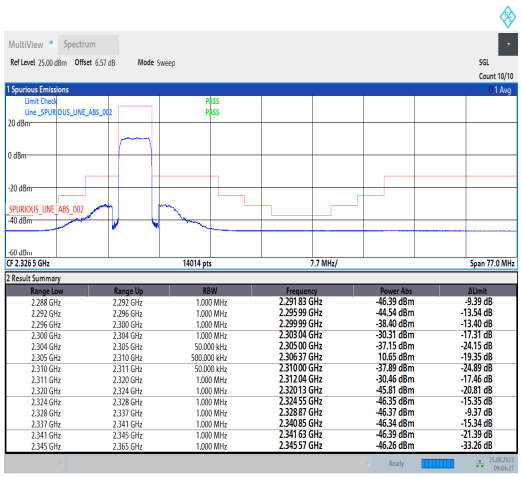
Band Edge for SA

Test Graphs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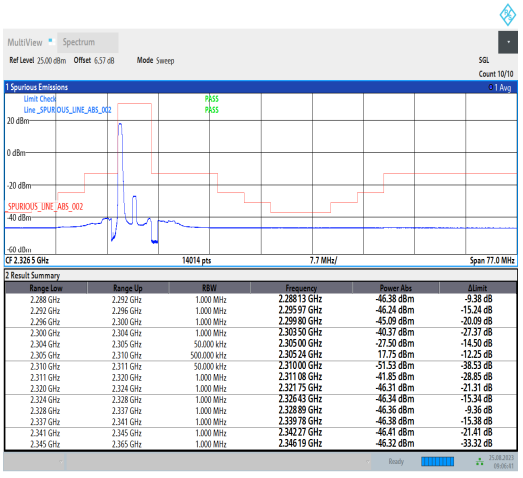	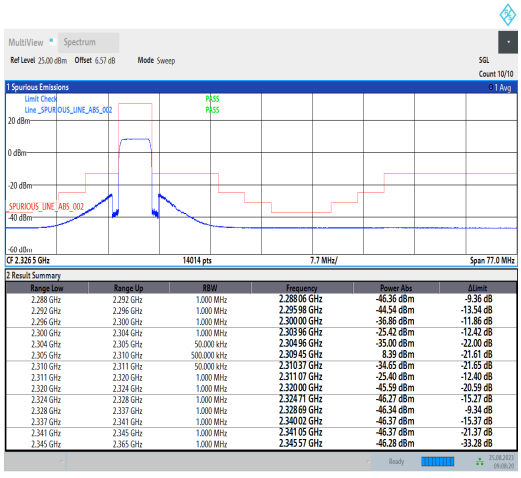
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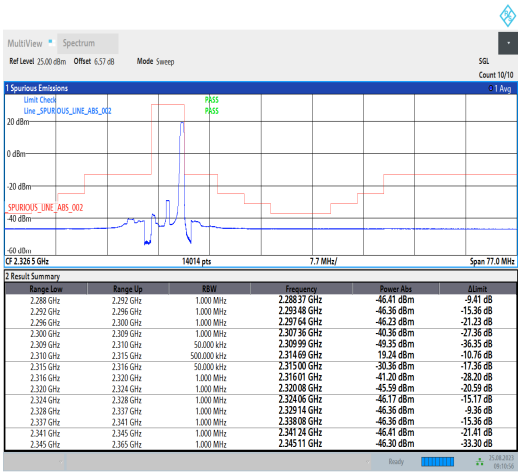

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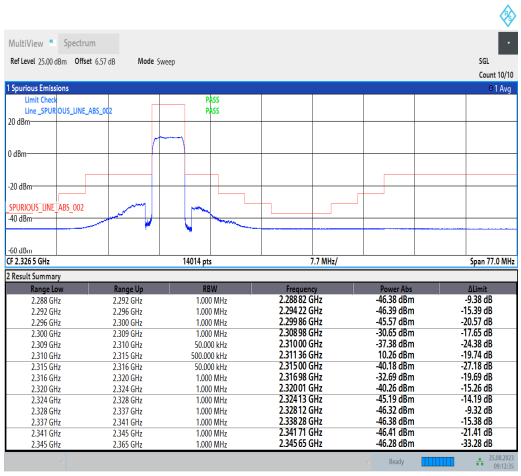

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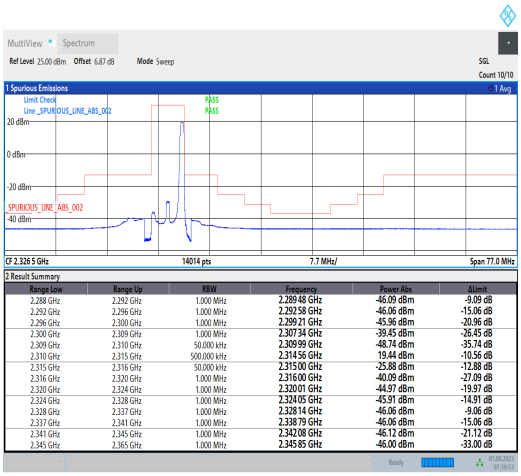

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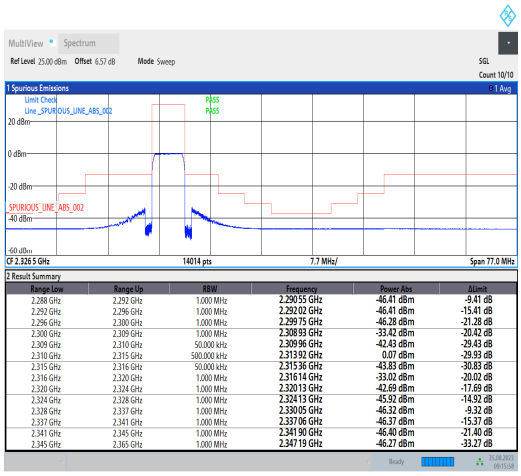

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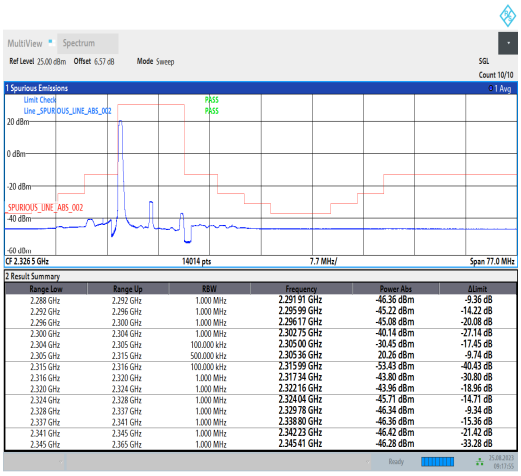	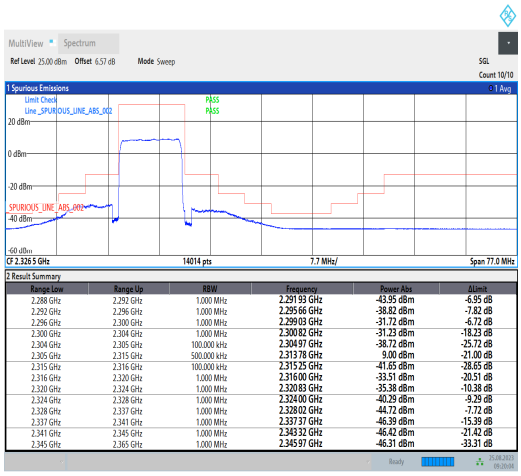
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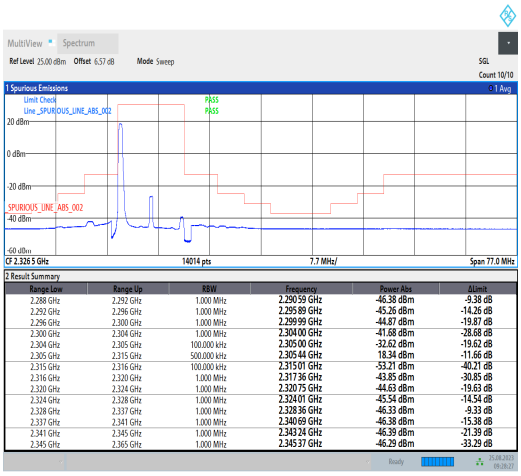	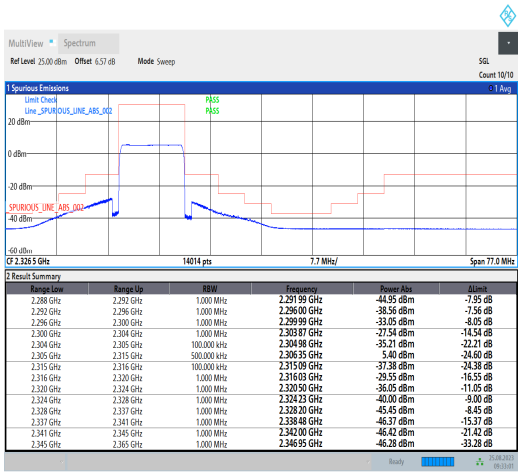
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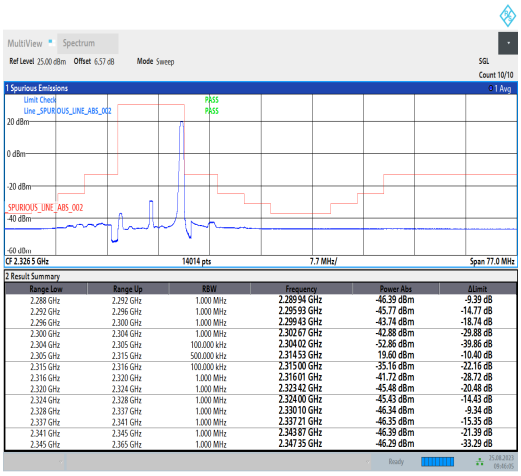

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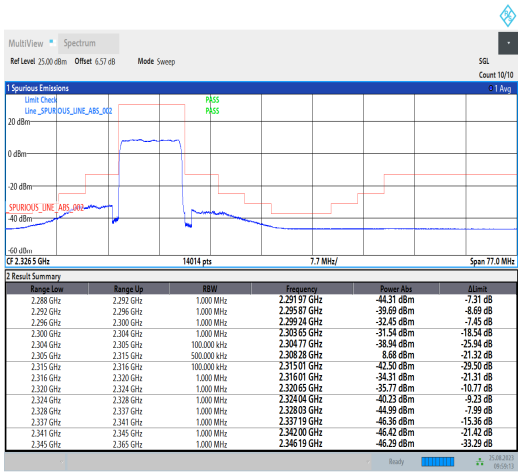

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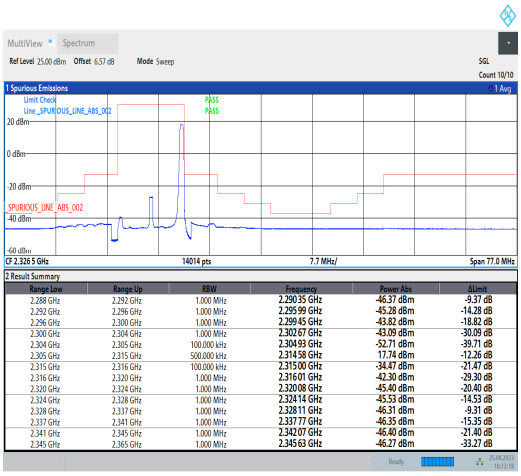

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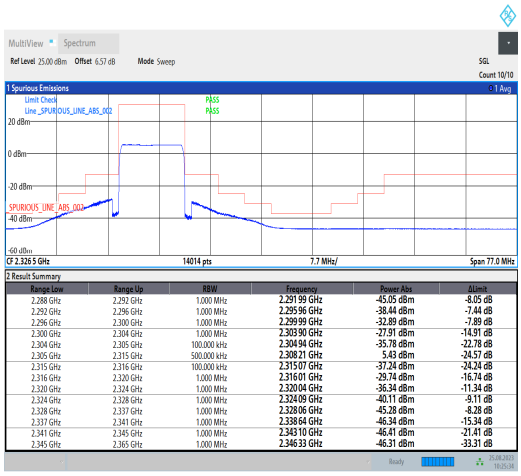

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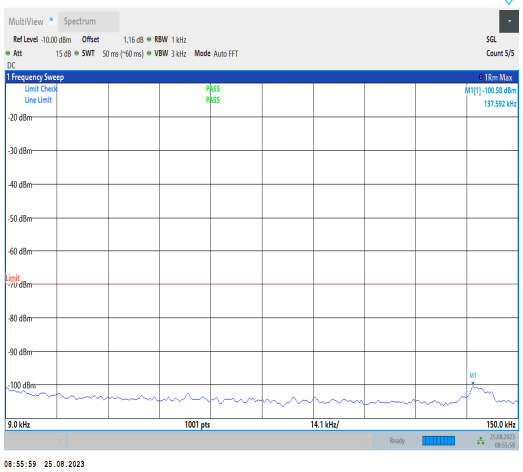
Conducted Spurious Emission for SA

Test Graphs



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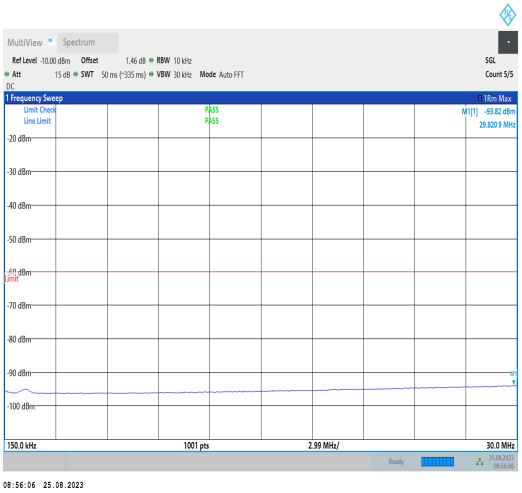

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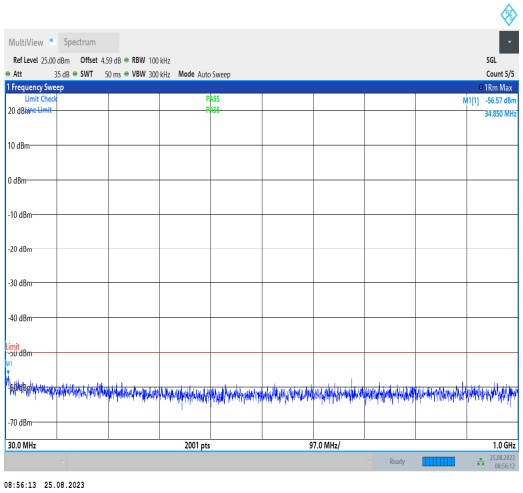

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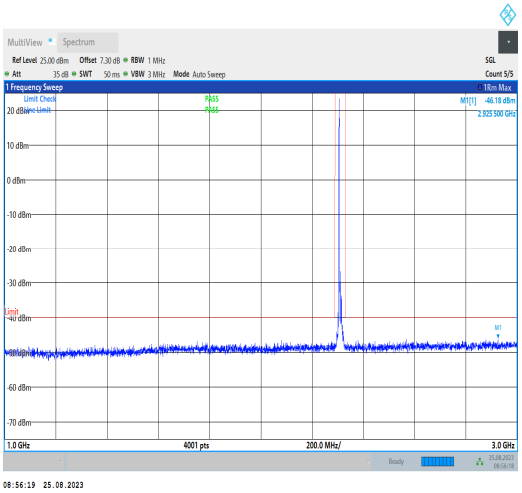

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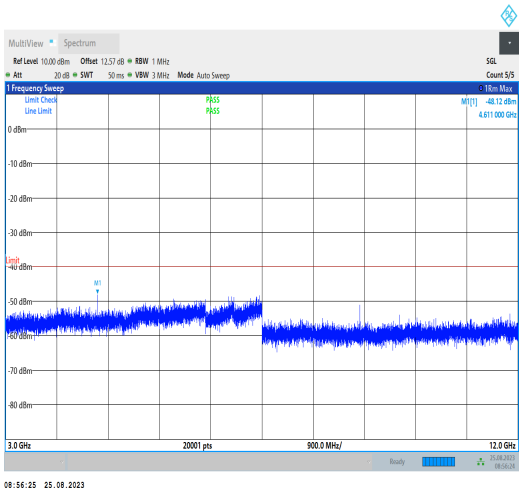	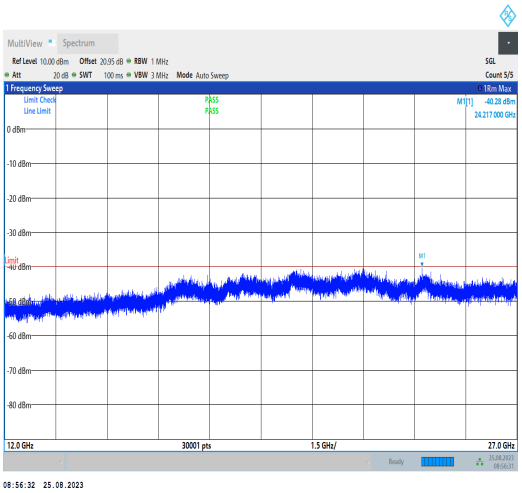
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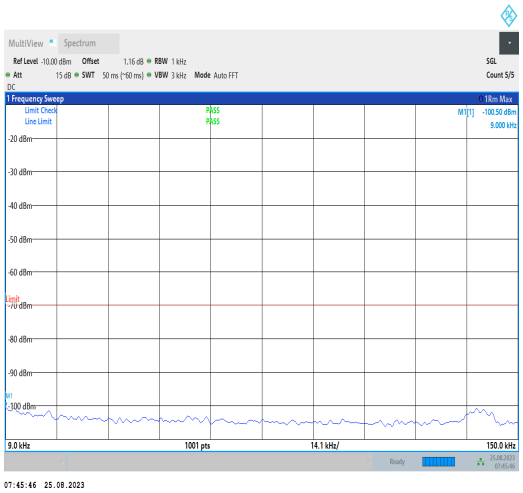	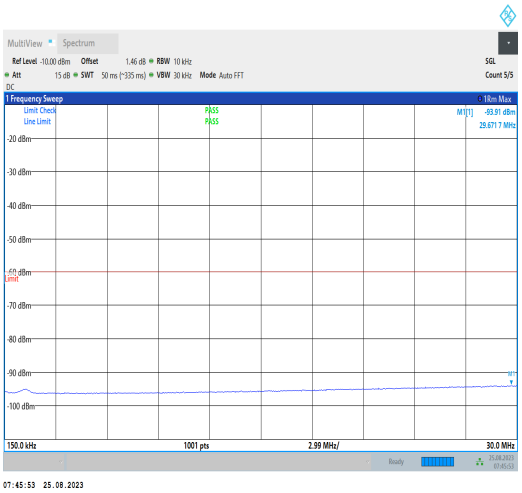
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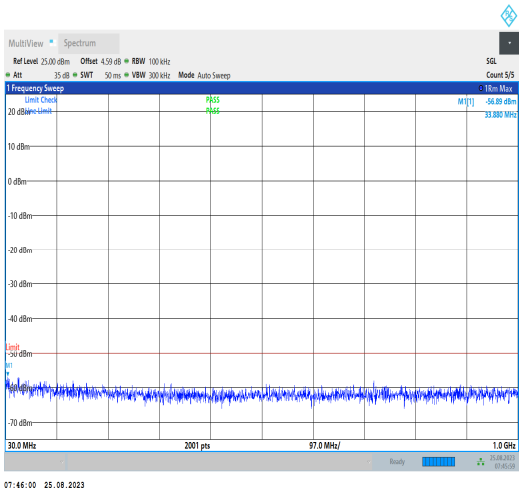	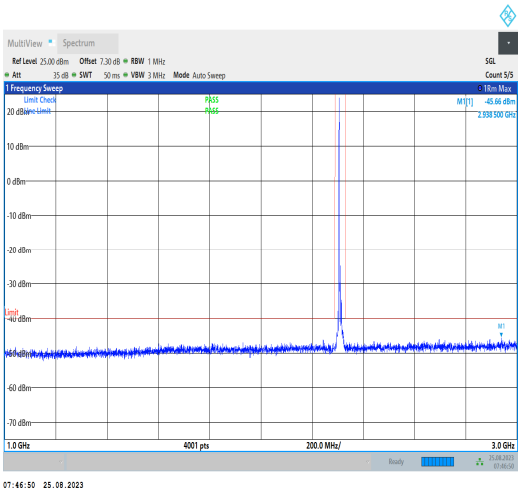
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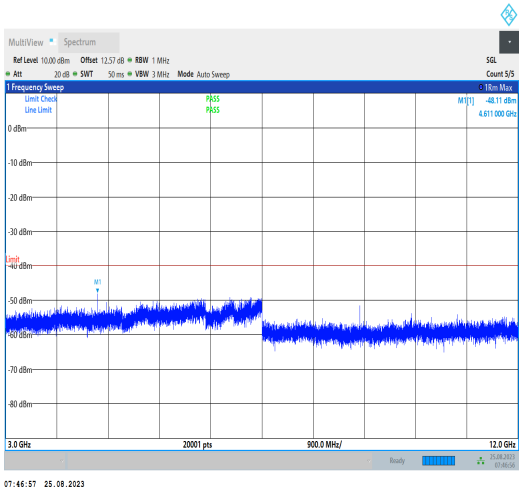	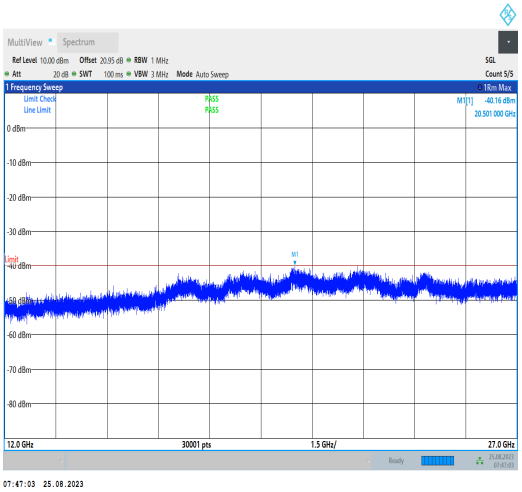
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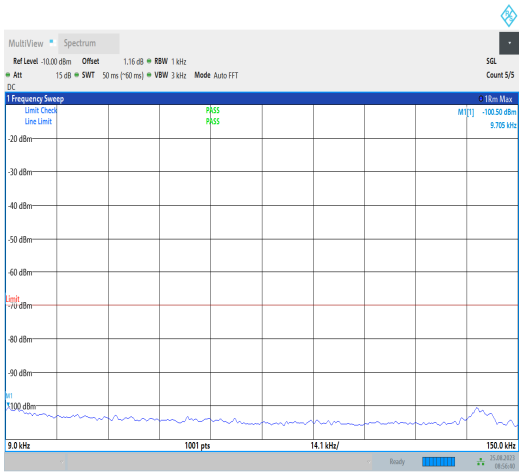	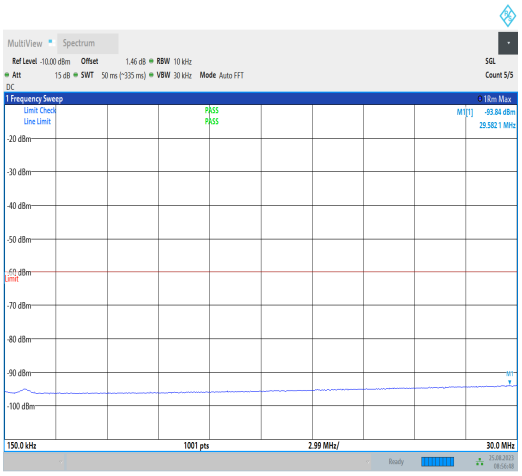
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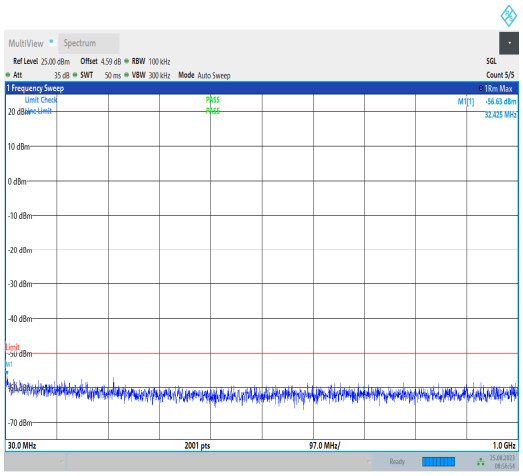	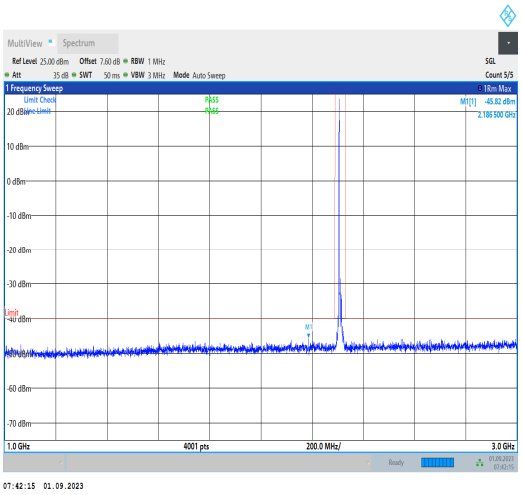
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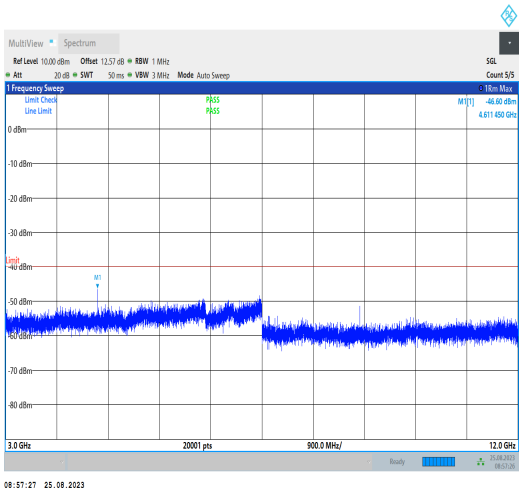	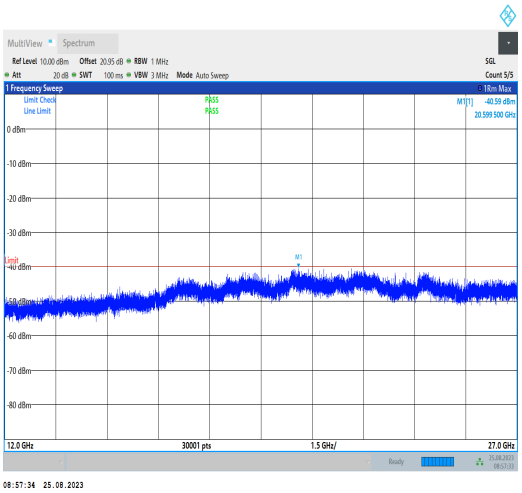
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Field Strength of Spurious Radiation

Test Band = SA Band30_10MHz_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4606.1800	41.52	-45.67	30.53	-68.87	-40.00	28.87	Horizontal
2	6909.2700	39.89	-44.05	35.04	-64.38	-40.00	24.38	Horizontal
3	9212.3600	36.16	-40.25	36.70	-62.64	-40.00	22.64	Horizontal
4	11515.4500	31.33	-37.25	38.75	-62.42	-40.00	22.42	Horizontal
5	13818.5400	32.83	-36.22	40.57	-58.08	-40.00	18.08	Horizontal
6	16121.6300	34.00	-34.56	39.58	-56.24	-40.00	16.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4606.1800	41.24	-45.67	30.53	-69.15	-40.00	29.15	Vertical
2	6909.2700	40.42	-44.05	35.04	-63.85	-40.00	23.85	Vertical
3	9212.3600	34.81	-40.25	36.70	-63.99	-40.00	23.99	Vertical
4	11515.4500	31.91	-37.25	38.75	-61.84	-40.00	21.84	Vertical
5	13818.5400	31.92	-36.22	40.57	-58.99	-40.00	18.99	Vertical
6	16121.6300	33.82	-34.56	39.58	-56.42	-40.00	16.42	Vertical

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Test Band = SA Band30_10MHz_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4429.7400	41.49	-45.79	30.13	-69.42	-40.00	29.42	Horizontal
2	6644.6100	40.19	-44.11	34.56	-64.62	-40.00	24.62	Horizontal
3	8859.4800	36.99	-41.24	36.37	-63.14	-40.00	23.14	Horizontal
4	11074.3500	31.80	-37.94	38.71	-62.69	-40.00	22.69	Horizontal
5	13289.2200	30.94	-36.91	39.62	-61.61	-40.00	21.61	Horizontal
6	15504.0900	32.71	-35.35	40.24	-57.66	-40.00	17.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4429.7400	41.44	-45.79	30.13	-69.47	-40.00	29.47	Vertical
2	6644.6100	40.16	-44.11	34.56	-64.65	-40.00	24.65	Vertical
3	8859.4800	36.46	-41.24	36.37	-63.67	-40.00	23.67	Vertical
4	11074.3500	31.62	-37.94	38.71	-62.87	-40.00	22.87	Vertical
5	13289.2200	31.36	-36.91	39.62	-61.19	-40.00	21.19	Vertical
6	15504.0900	32.28	-35.35	40.24	-58.09	-40.00	18.09	Vertical

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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Test Band = SA Band30_10MHz_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4614.0200	41.94	-45.66	30.55	-68.43	-40.00	28.43	Horizontal
2	6921.0300	39.91	-43.98	35.06	-64.27	-40.00	24.27	Horizontal
3	9228.0400	34.82	-40.24	36.73	-63.95	-40.00	23.95	Horizontal
4	11535.0500	31.62	-37.16	38.75	-62.05	-40.00	22.05	Horizontal
5	13842.0600	32.67	-35.99	40.62	-57.97	-40.00	17.97	Horizontal
6	16148.0700	33.85	-34.59	39.66	-56.34	-40.00	16.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4614.0200	41.78	-45.66	30.55	-68.59	-40.00	28.59	Vertical
2	6921.0300	40.25	-43.98	35.06	-63.93	-40.00	23.93	Vertical
3	9228.0400	35.16	-40.24	36.73	-63.61	-40.00	23.61	Vertical
4	11535.0500	32.24	-37.16	38.75	-61.43	-40.00	21.43	Vertical
5	13842.0600	32.96	-35.99	40.62	-57.68	-40.00	17.68	Vertical
6	16148.0700	33.80	-34.59	39.66	-56.39	-40.00	16.39	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 for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-8.700000	-0.003766	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.500000	-0.002381	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.100000	-0.003275	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VH	NT	-4.900000	-0.002121	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VN	NT	-4.100000	-0.001775	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VL	NT	-0.300000	-0.000130	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.400000	-0.001472	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.400000	-0.001039	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-7.400000	-0.003203	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.300000	-0.000996	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-5.300000	-0.002294	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-8.100000	-0.003506	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.000000	-0.001299	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.300000	-0.000996	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.800000	-0.000779	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-30	-2.400000	-0.001039	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-20	-2.300000	-0.000996	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-10	-1.100000	-0.000476	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	0	-7.000000	-0.003030	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	10	-4.300000	-0.005439	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	20	-2.200000	-0.000952	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	30	-3.000000	-0.001299	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	40	-4.800000	-0.002078	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	50	-4.100000	-0.002567	PASS

---End of Attachment---

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