



Report No.: SUZR/2021/8005301

Rev.: 01

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Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
Band2	9262	22.65	24.26	33	PASS
Band2	9400	22.56	24.17	33	PASS
Band2	9538	22.51	24.12	33	PASS
Band4	1312	23.00	23.87	30	PASS
Band4	1413	22.93	23.8	30	PASS
Band4	1513	23.18	24.05	30	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.22	13	PASS
Band2	9400	3.22	13	PASS
Band2	9538	3.16	13	PASS
Band4	1312	3.18	13	PASS
Band4	1413	3.1	13	PASS
Band4	1513	3.2	13	PASS

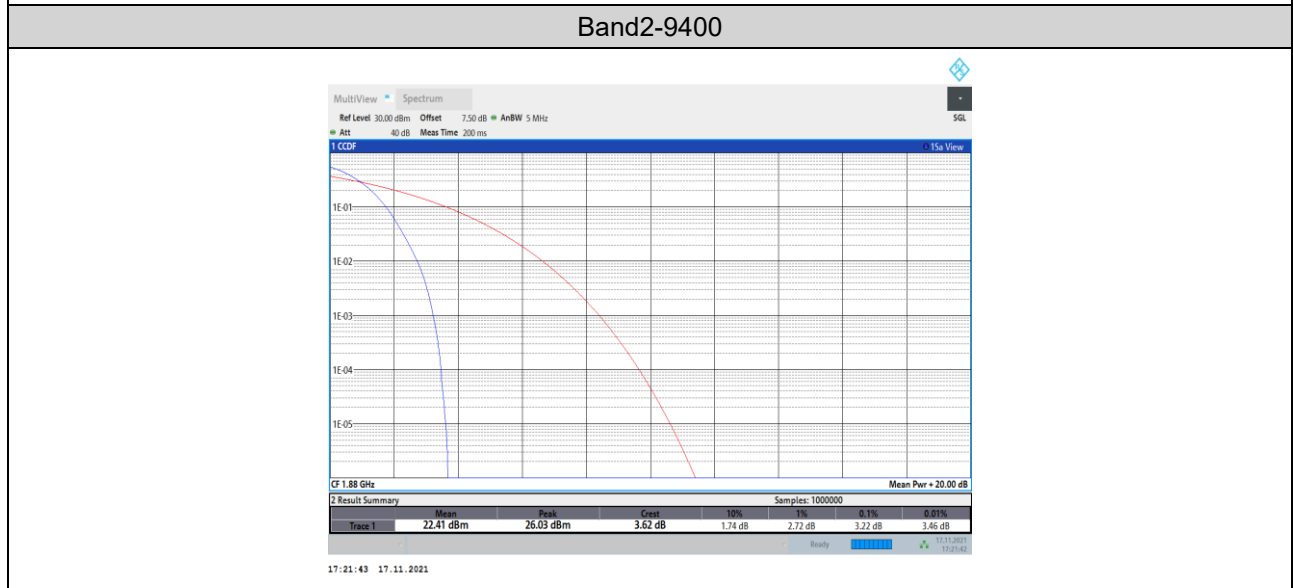
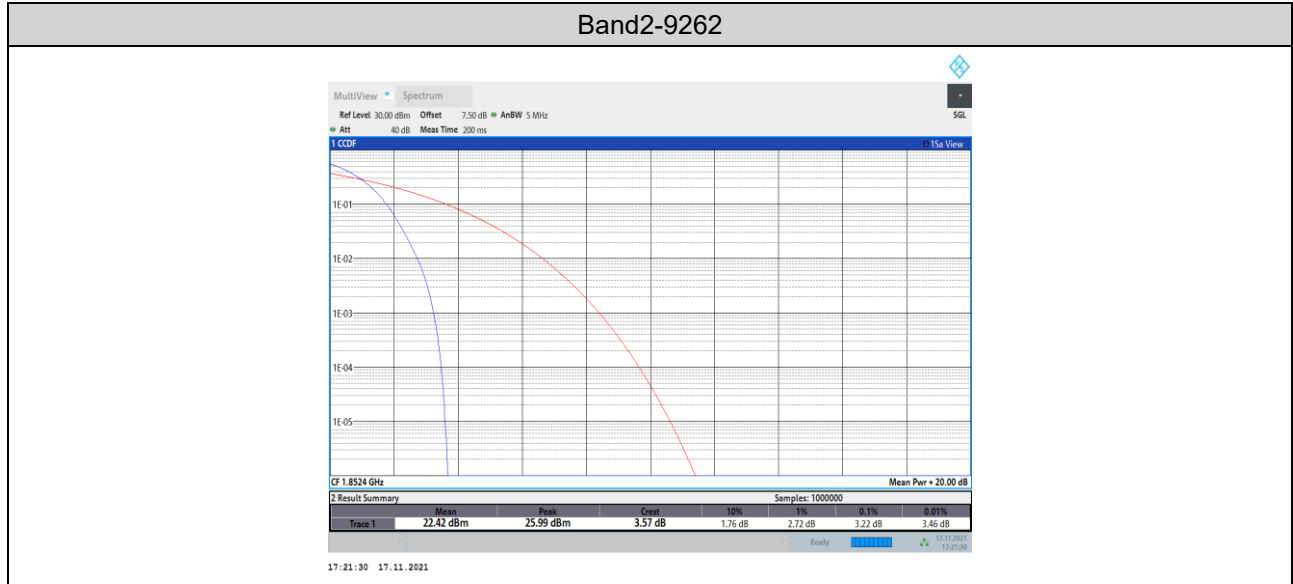


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Test Graphs

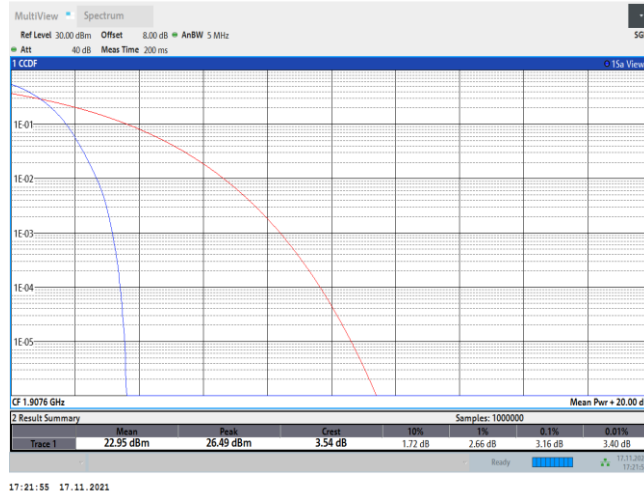


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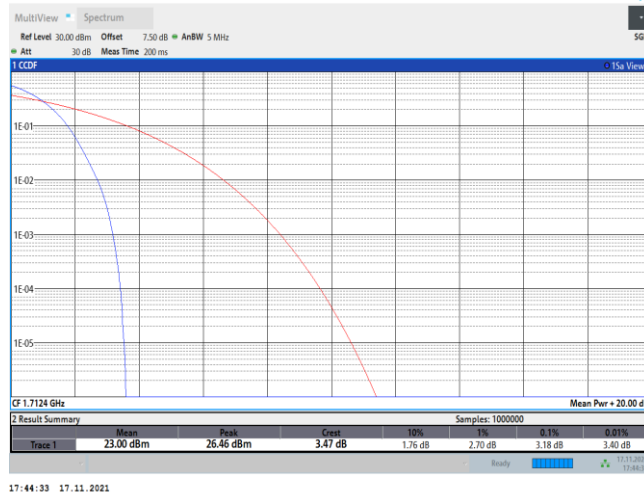
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Band2-9538



Band4-1312

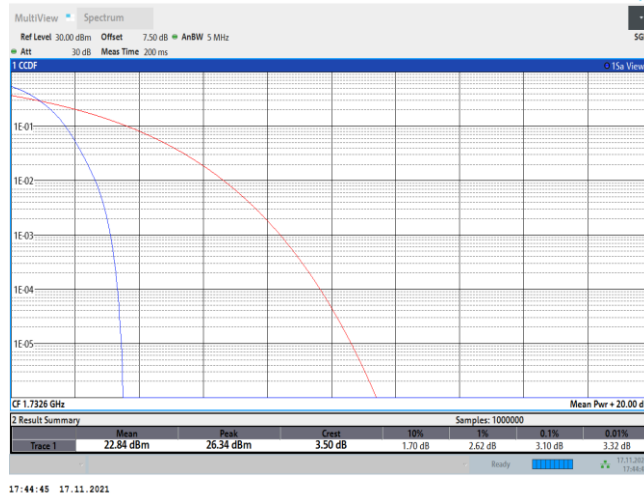


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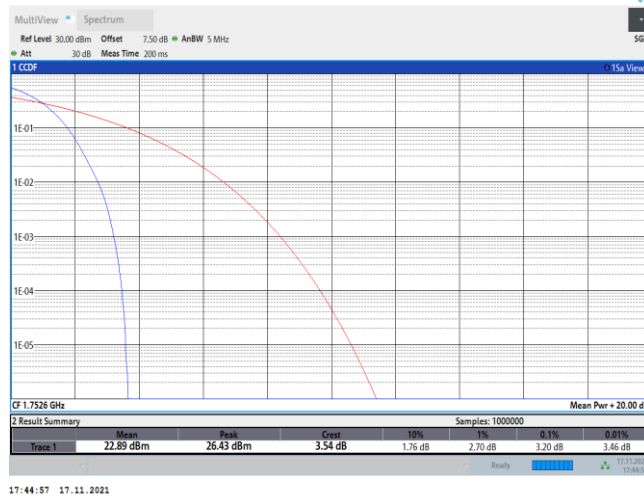
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Band4-1413



Band4-1513



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Modulation Characteristics

Test Result

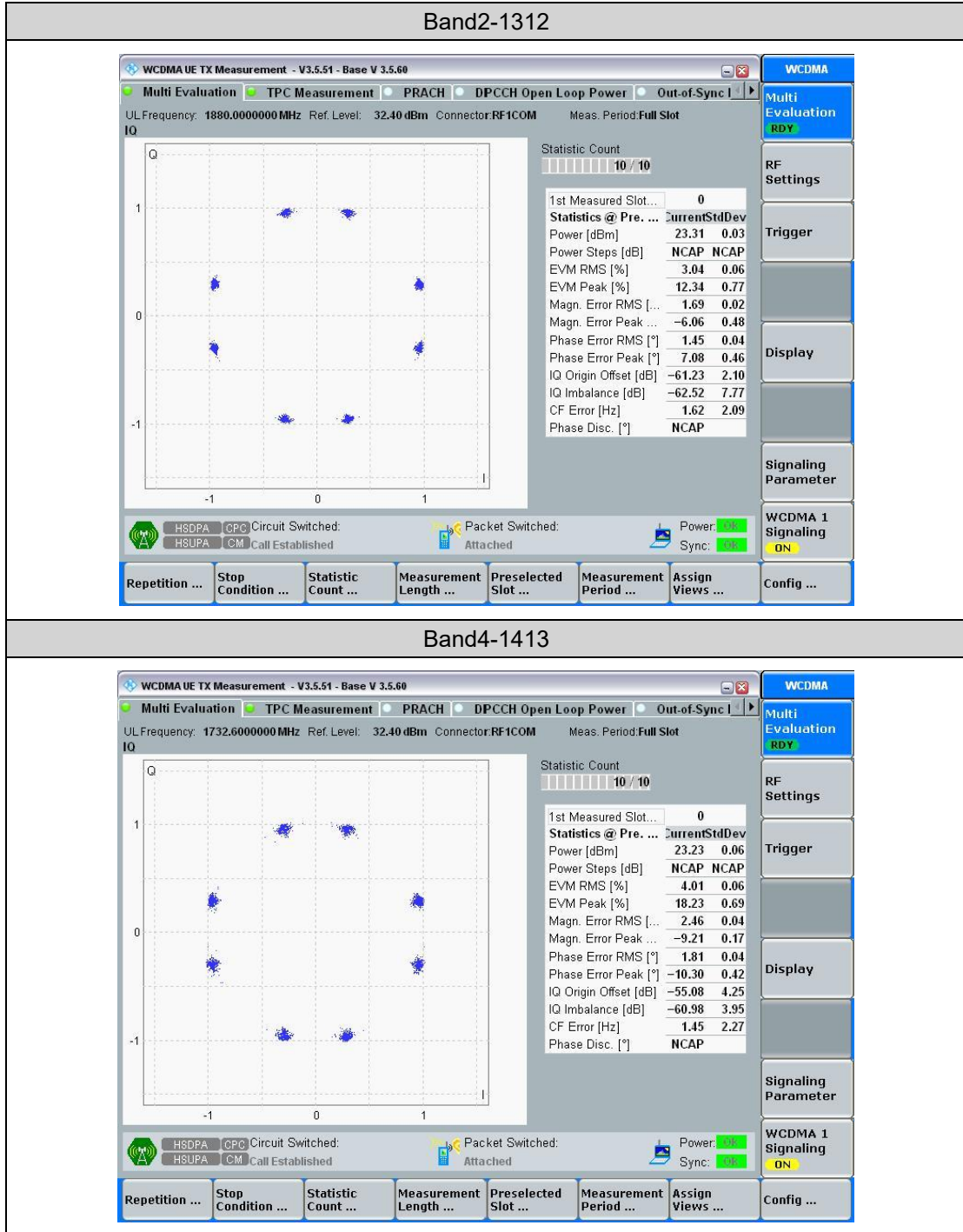
Band	Channel	Result	Verdict
Band2	1312	PASS	PASS
Band4	1413	PASS	PASS



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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.123	4.710	---	PASS
Band2	9400	4.119	4.710	---	PASS
Band2	9538	4.118	4.710	---	PASS
Band4	1312	4.123	4.720	---	PASS
Band4	1413	4.126	4.710	---	PASS
Band4	1513	4.121	4.720	---	PASS

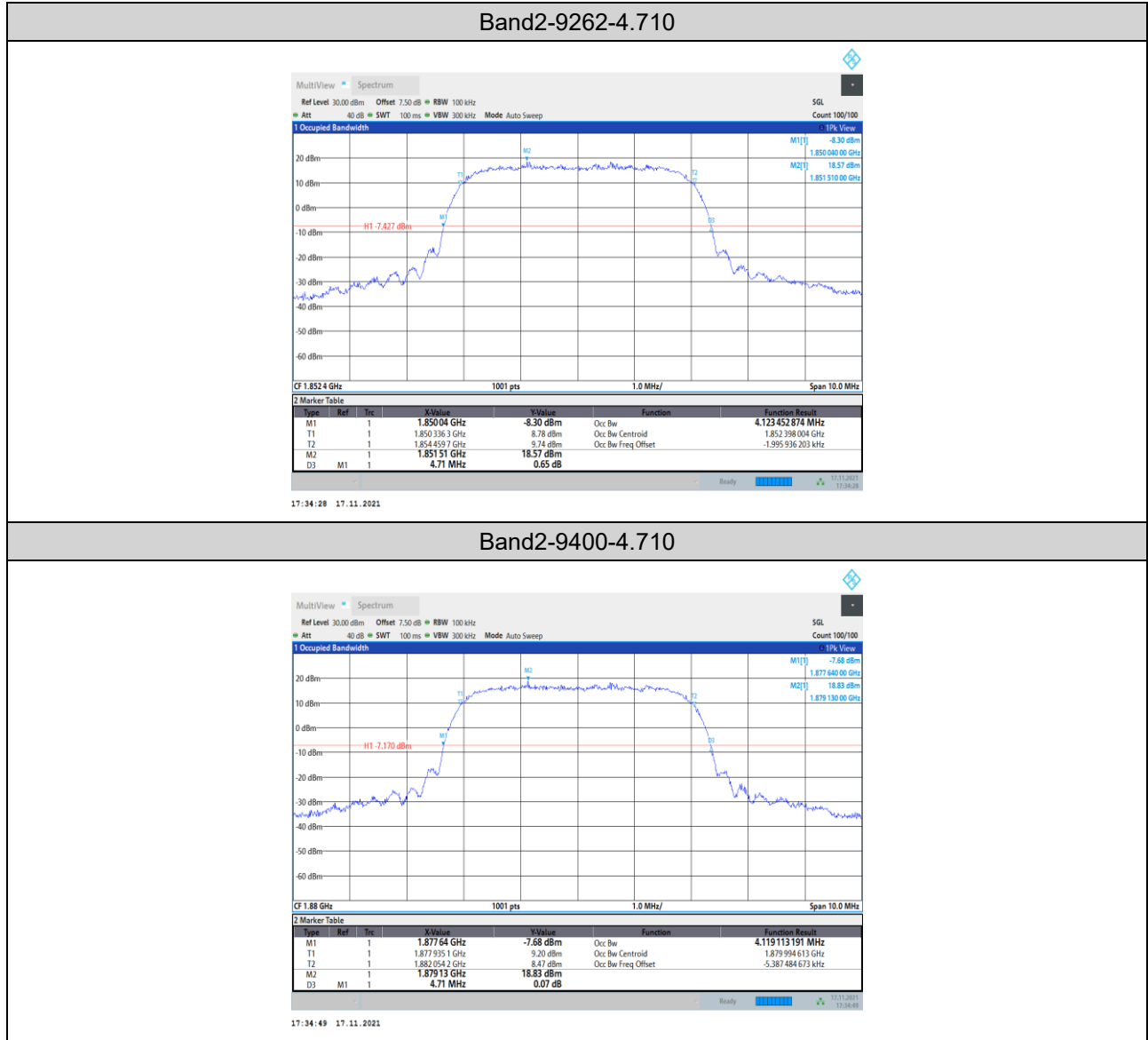


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Test Graphs

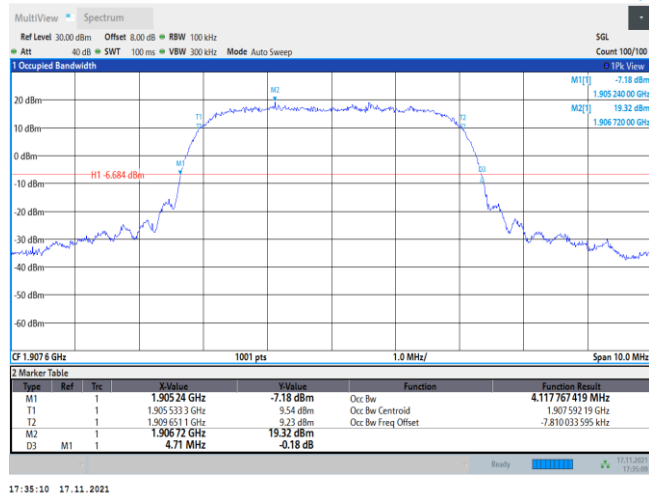


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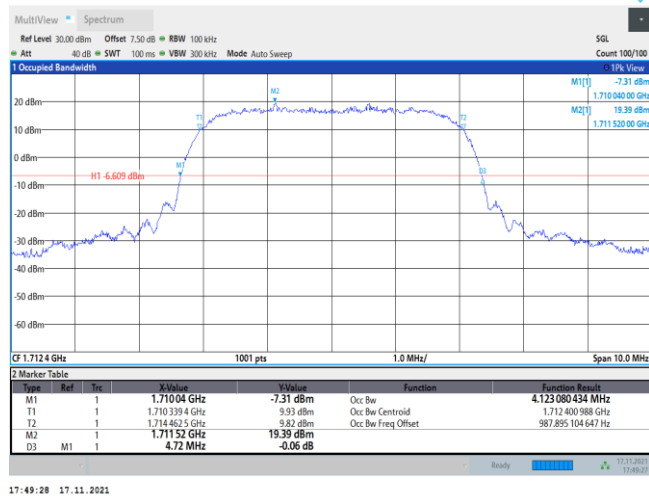
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Band2-9538-4.710



Band4-1312-4.720

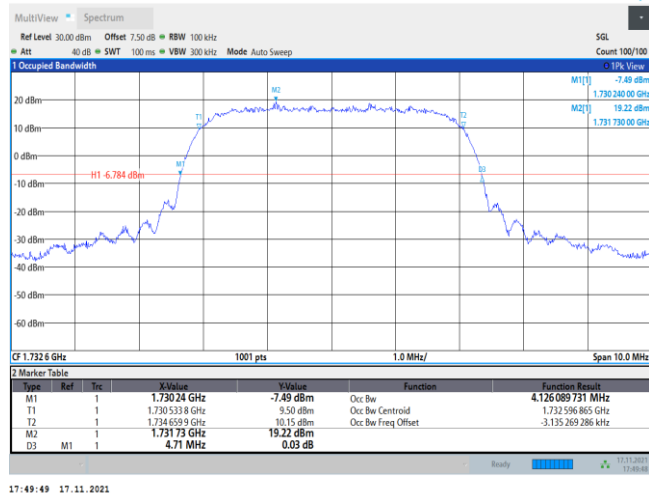


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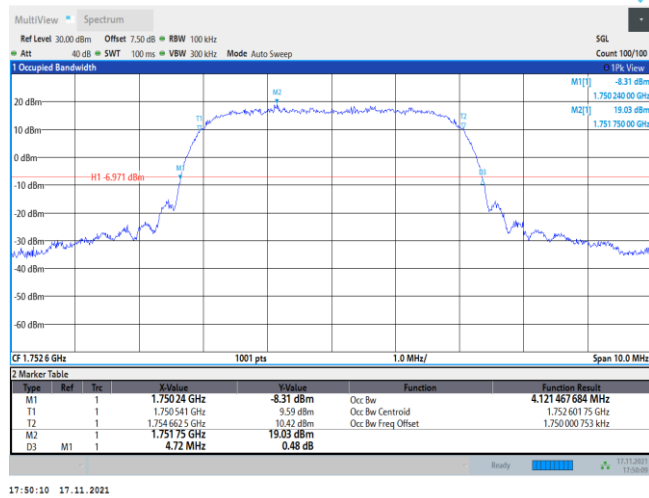
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Band4-1413-4.710



Band4-1513-4.720



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Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.89	-26.15	-13	PASS
Band2	9538	1910.00	-25.85	-13	PASS
Band4	1312	1709.84	-23.86	-13	PASS
Band4	1513	1755.21	-24.66	-13	PASS



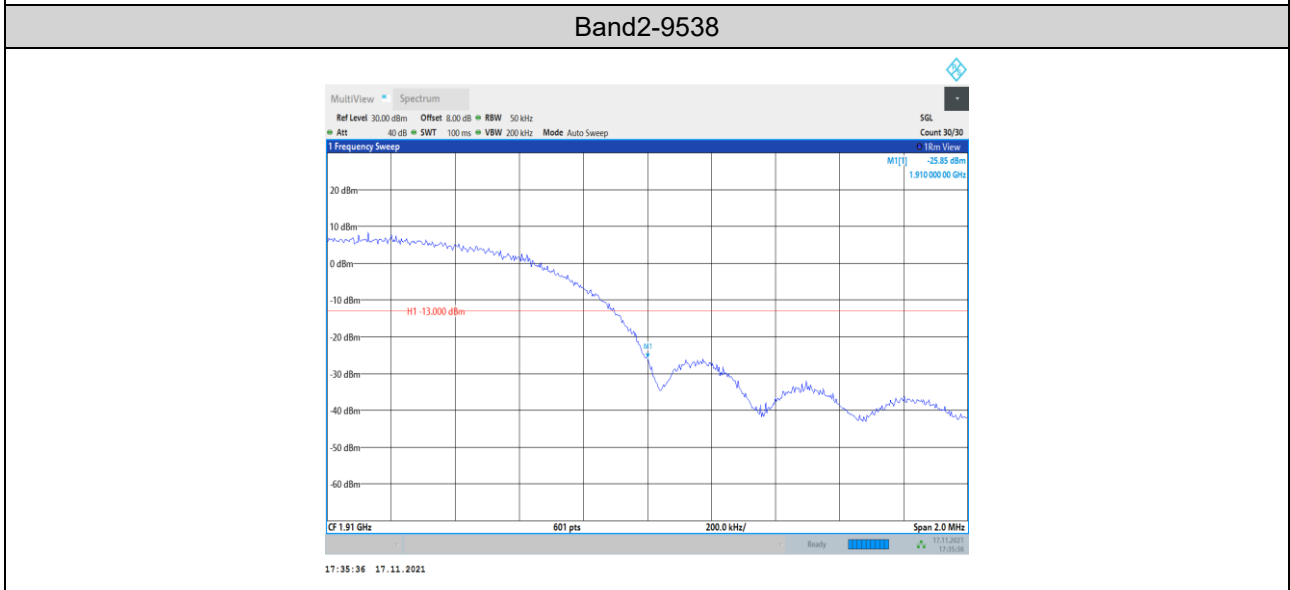
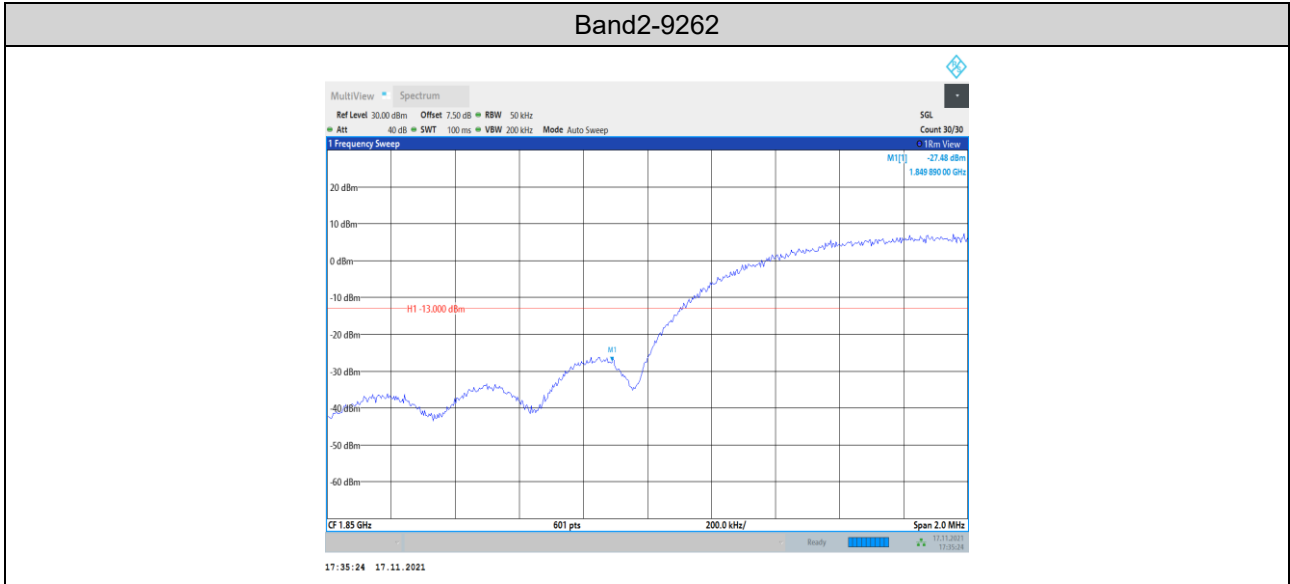
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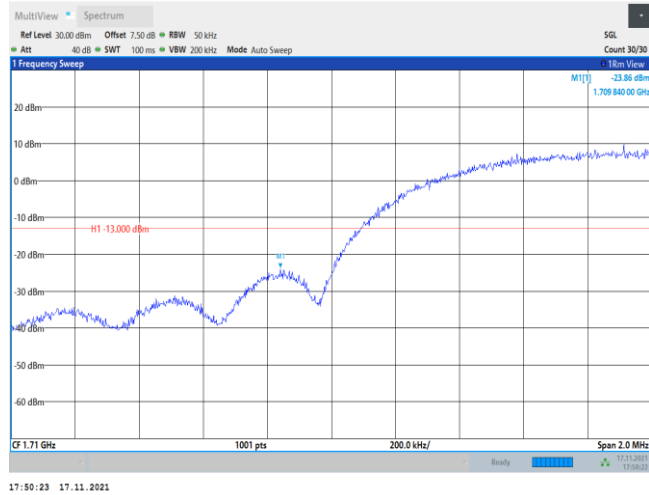
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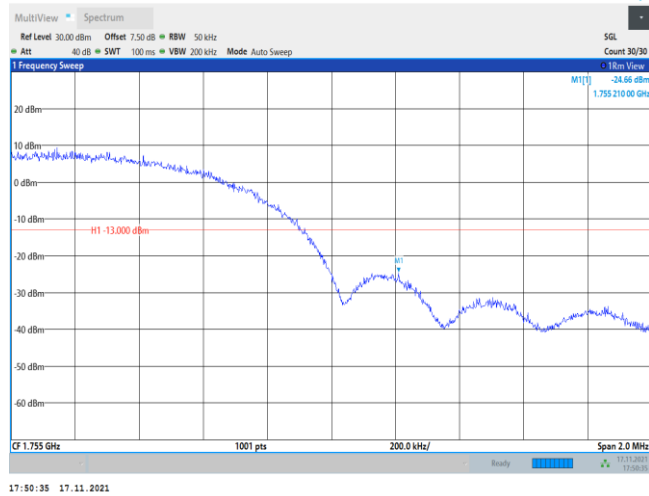


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Band4-1312



Band4-1513



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Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-83.42	-43	PASS
Band2	9262	0.15~30MHz	22.9	-51.22	-23	PASS
Band2	9262	30~1000MHz	35.64	-37.76	-13	PASS
Band2	9262	1000~3000MHz	2992.47	-47.85	-13	PASS
Band2	9262	3000~10000MHz	3523.93	-45.8	-13	PASS
Band2	9262	10000~20000MHz	17477.25	-52.04	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-82.17	-43	PASS
Band2	9400	0.15~30MHz	18.35	-51.43	-23	PASS
Band2	9400	30~1000MHz	33.38	-37.17	-13	PASS
Band2	9400	1000~3000MHz	2994.27	-47.99	-13	PASS
Band2	9400	3000~10000MHz	3758.19	-50.66	-13	PASS
Band2	9400	10000~20000MHz	17478.92	-51.87	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-83.48	-43	PASS
Band2	9538	0.15~30MHz	26.25	-51.14	-23	PASS
Band2	9538	30~1000MHz	34.48	-37.31	-13	PASS
Band2	9538	1000~3000MHz	2986.67	-48.04	-13	PASS
Band2	9538	3000~10000MHz	3816.76	-49.11	-13	PASS
Band2	9538	10000~20000MHz	17460.58	-51.86	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-82.97	-43	PASS
Band4	1312	0.15~30MHz	28.82	-51.25	-23	PASS
Band4	1312	30~1000MHz	33.31	-38.13	-13	PASS
Band4	1312	1000~3000MHz	2932.6	-48.04	-13	PASS
Band4	1312	3000~10000MHz	7491.17	-52.7	-13	PASS
Band4	1312	10000~20000MHz	17442.25	-51.95	-13	PASS
Band4	1413	0.009~0.15MHz	0.13	-82.58	-43	PASS
Band4	1413	0.15~30MHz	28.89	-50.6	-23	PASS
Band4	1413	30~1000MHz	32.31	-37.37	-13	PASS
Band4	1413	1000~3000MHz	2987.47	-48.01	-13	PASS
Band4	1413	3000~10000MHz	7483.93	-52.52	-13	PASS
Band4	1413	10000~20000MHz	17466.58	-51.9	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-83.44	-43	PASS



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Rev.: 01

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Band4	1513	0.15~30MHz	29.52	-51.07	-23	PASS
Band4	1513	30~1000MHz	35.84	-38.21	-13	PASS
Band4	1513	1000~3000MHz	2964.67	-48.02	-13	PASS
Band4	1513	3000~10000MHz	7496.07	-52.66	-13	PASS
Band4	1513	10000~20000MHz	17448.59	-51.9	-13	PASS



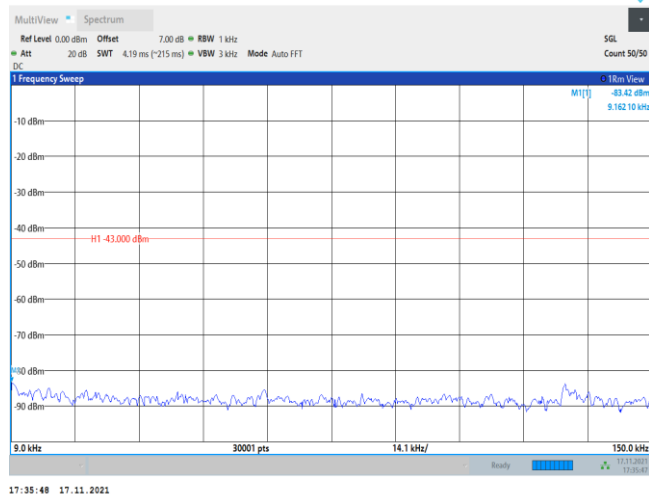
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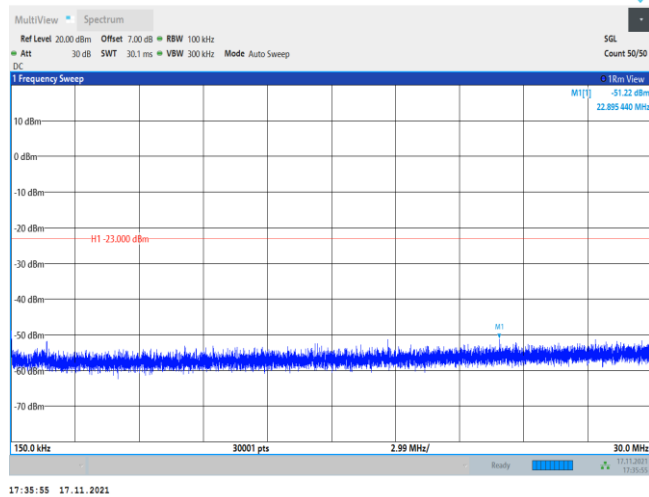
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Test Graphs

Band2-9262-0.009~0.15MHz



Band2-9262-0.15~30MHz

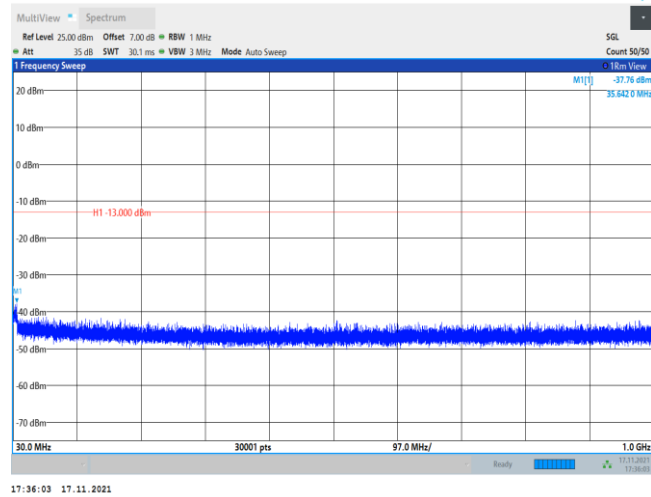


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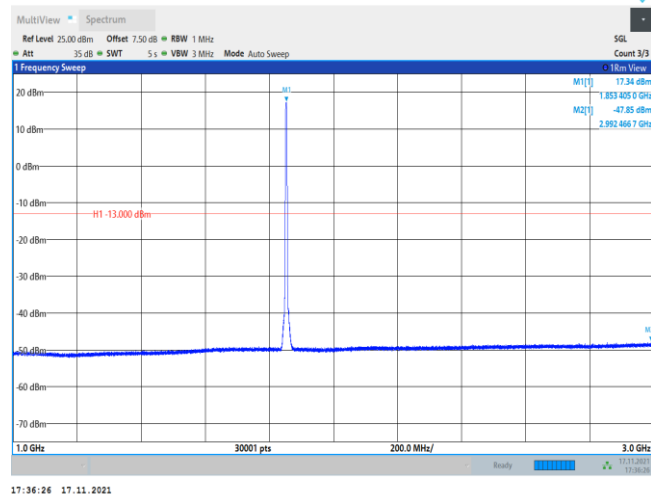
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Band2-9262-30~1000MHz

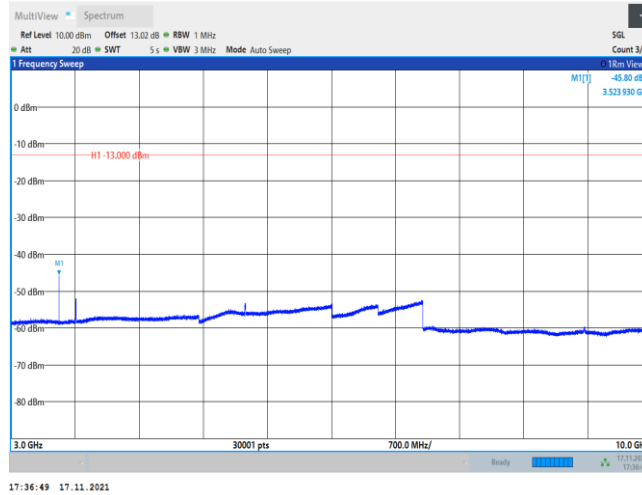


Band2-9262-1000~3000MHz



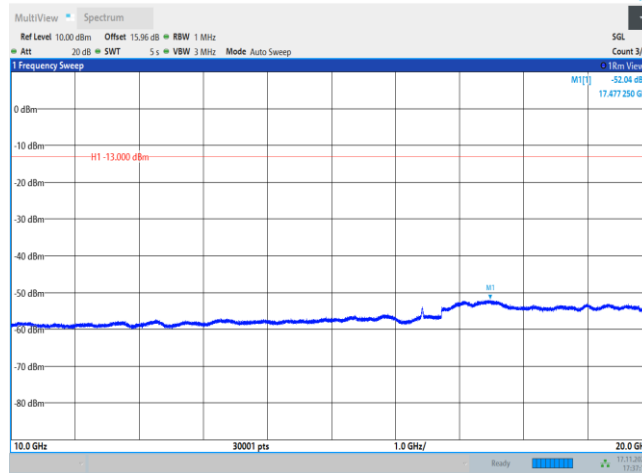
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Band2-9262-3000~10000MHz



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Band2-9262-10000~20000MHz



17:37:11 17.11.2021

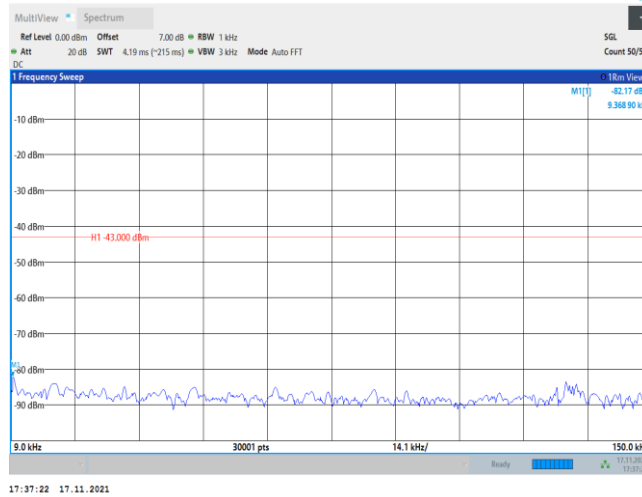


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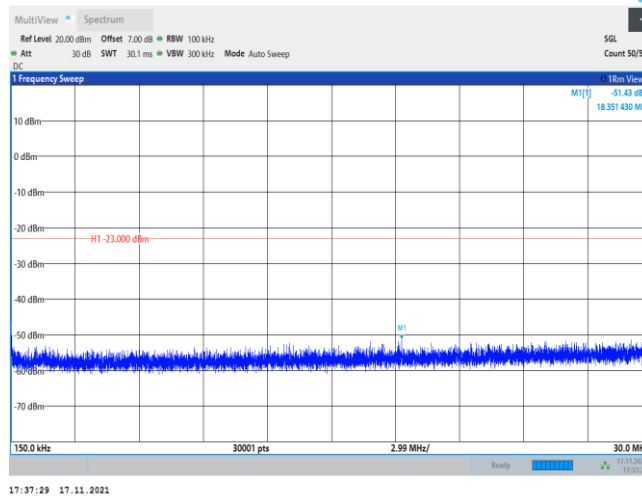
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Band2-9400-0.009~0.15MHz



Band2-9400-0.15~30MHz



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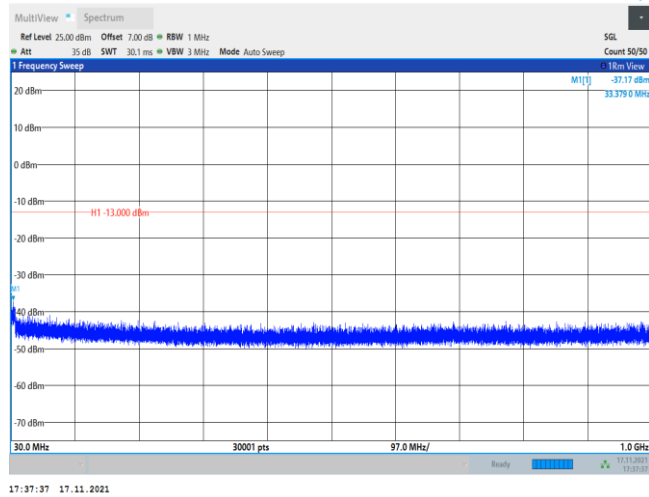


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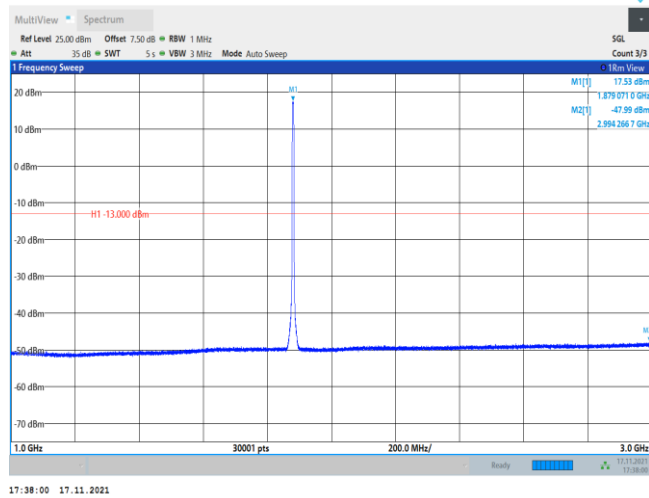
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Band2-9400-30~1000MHz



Band2-9400-1000~3000MHz

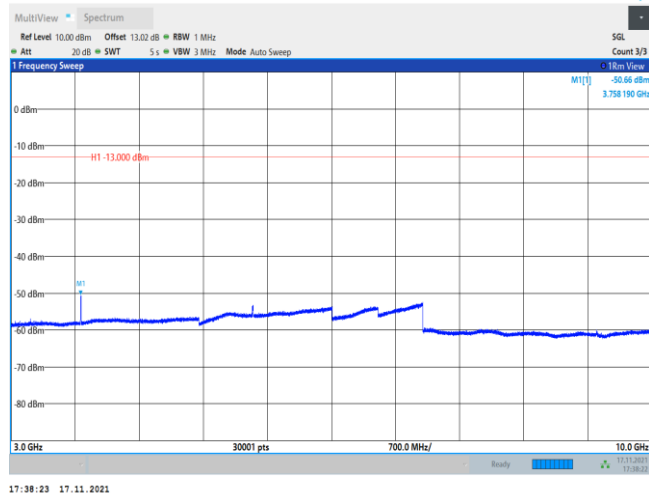


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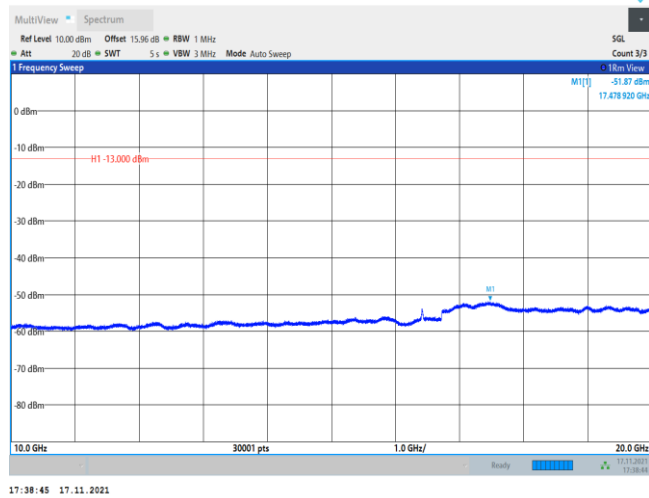
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Band2-9400-3000~10000MHz



Band2-9400-10000~20000MHz

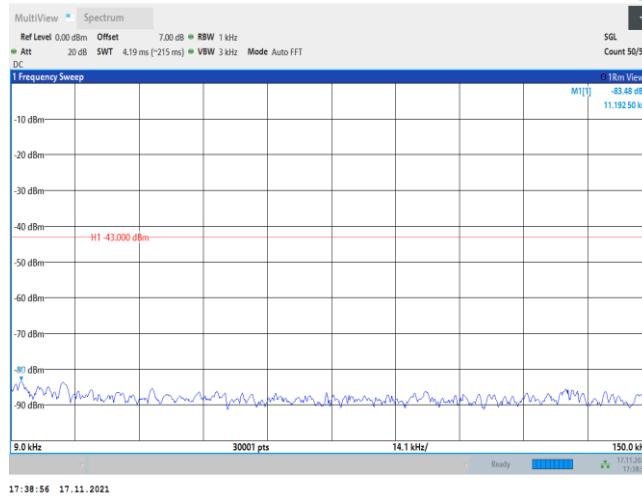


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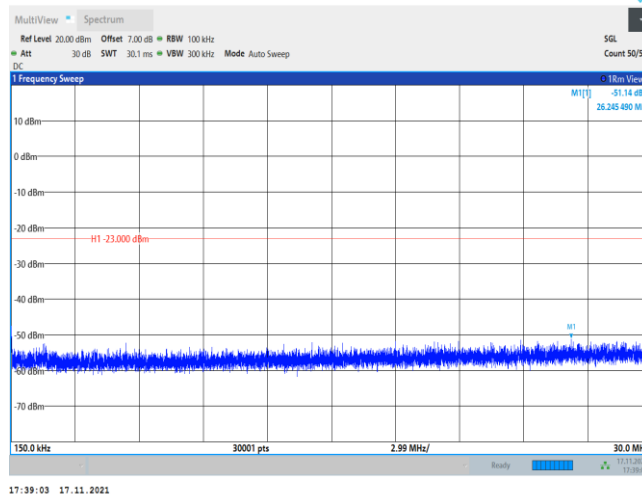
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Band2-9538-0.009~0.15MHz



Band2-9538-0.15~30MHz

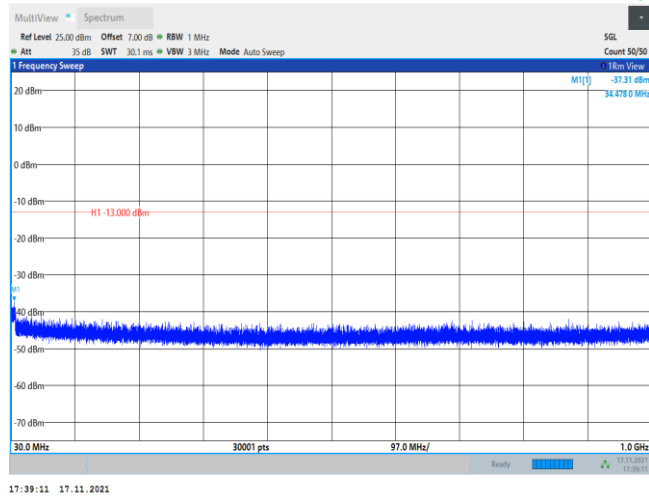


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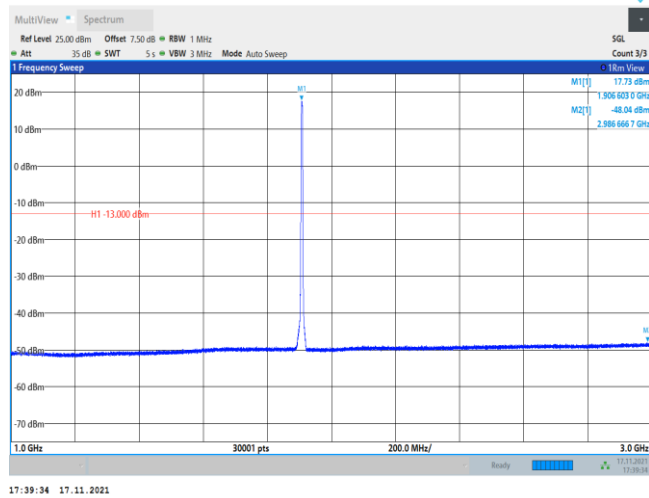
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Band2-9538-30~1000MHz



Band2-9538-1000~3000MHz

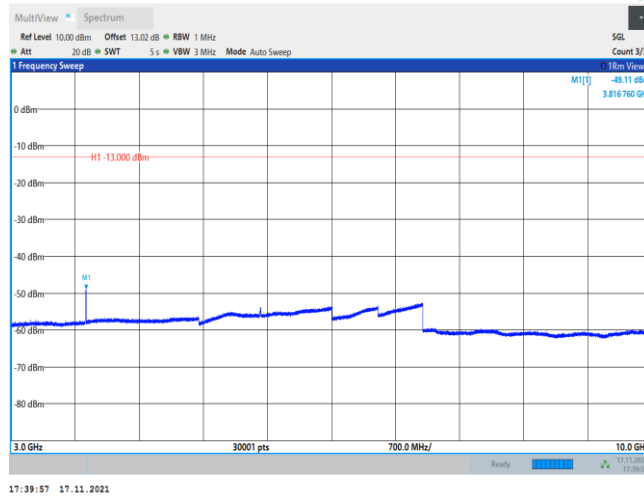


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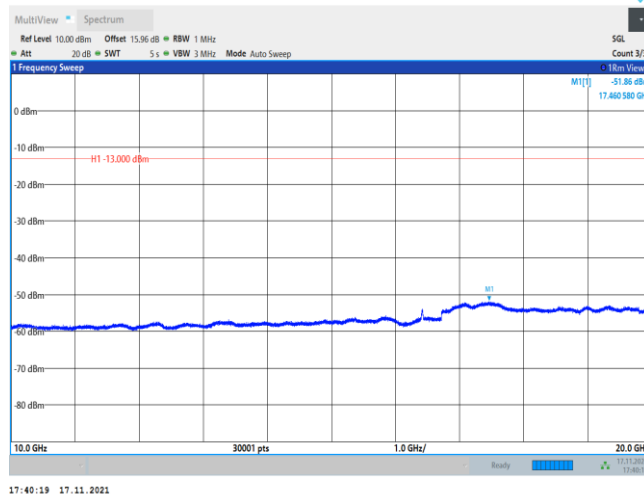
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Band2-9538-3000~10000MHz



Band2-9538-10000~20000MHz

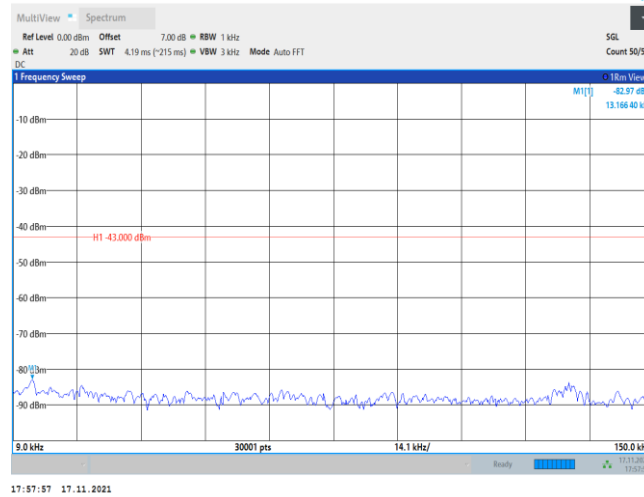


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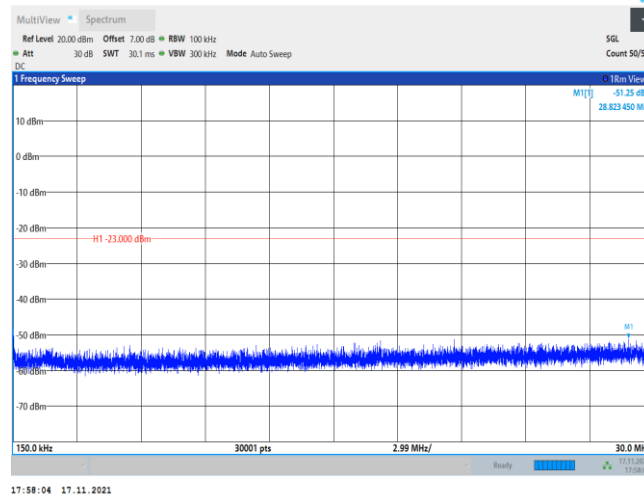
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Band4-1312-0.009~0.15MHz



Band4-1312-0.15~30MHz

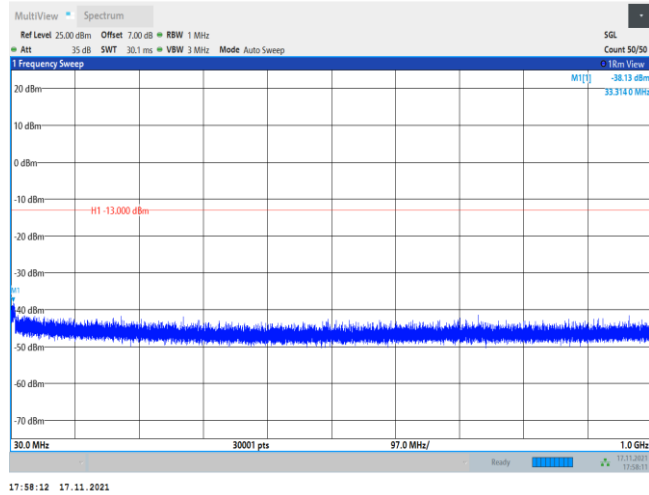


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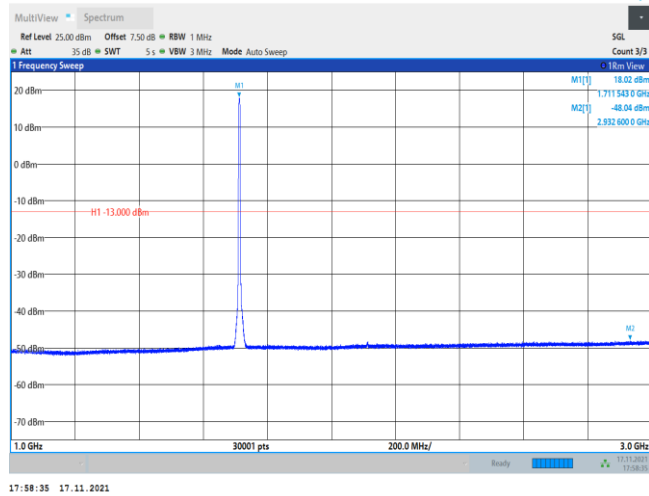
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Band4-1312-30~1000MHz



Band4-1312-1000~3000MHz

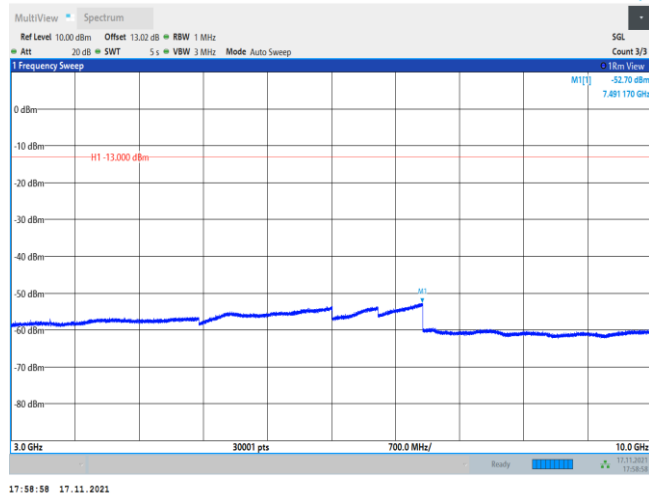


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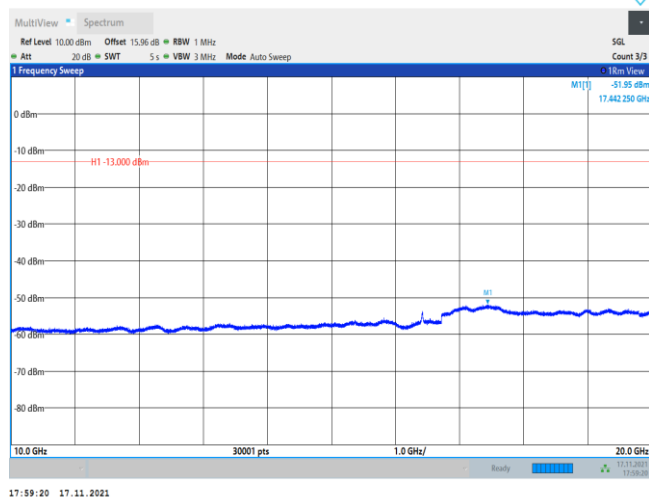
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Band4-1312-3000~10000MHz



Band4-1312-10000~20000MHz

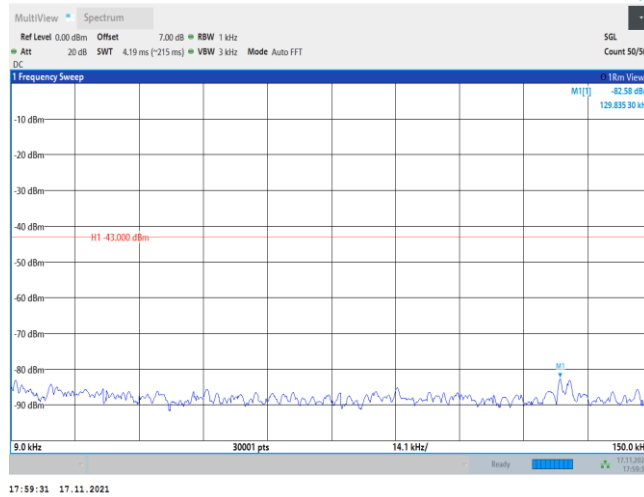


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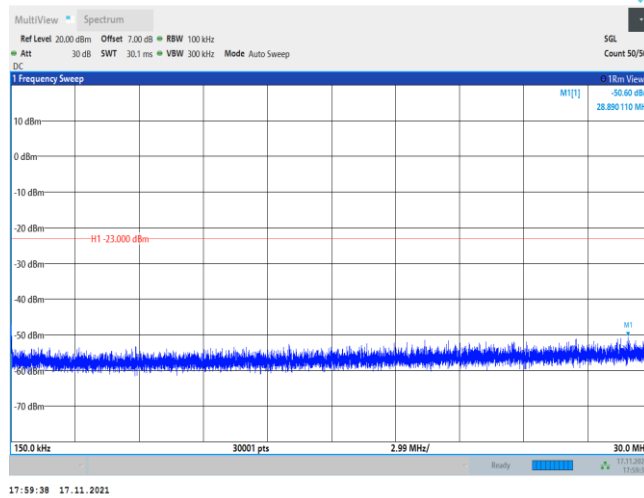
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Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



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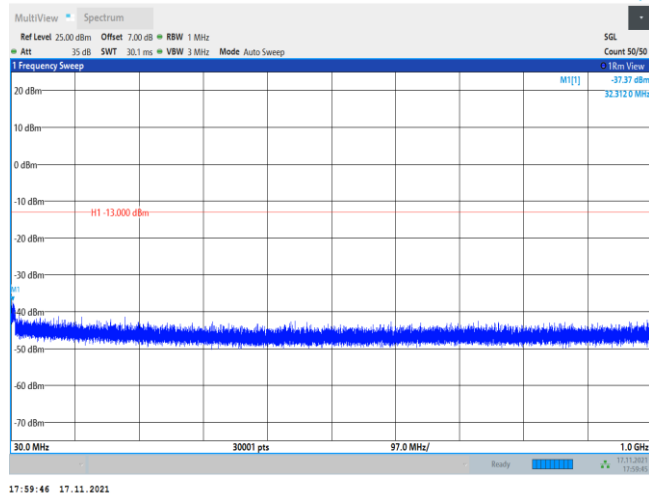
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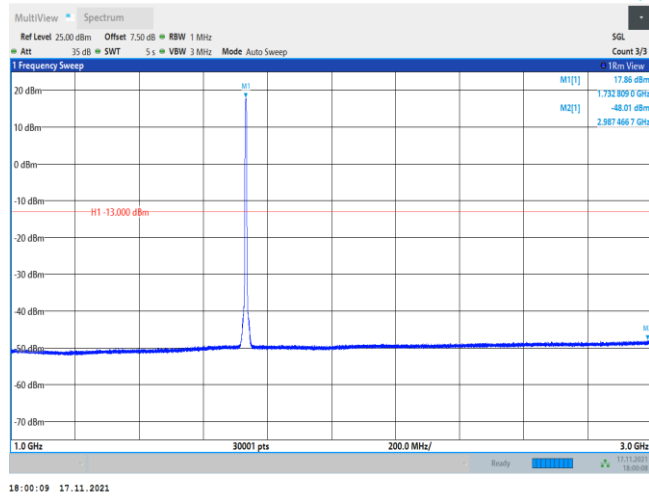
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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Band4-1413-30~1000MHz



Band4-1413-1000~3000MHz

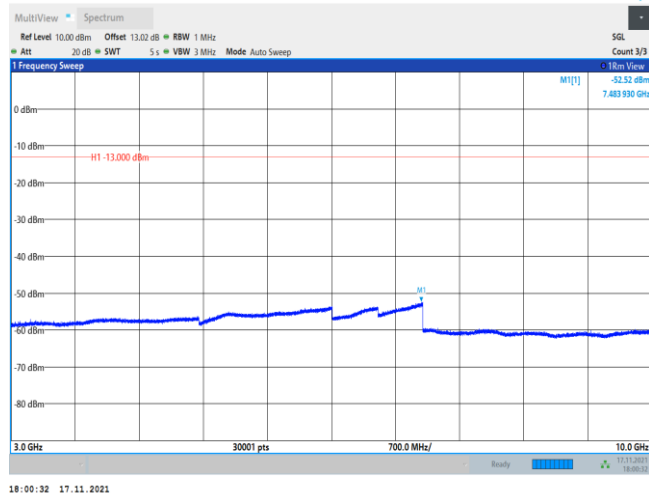


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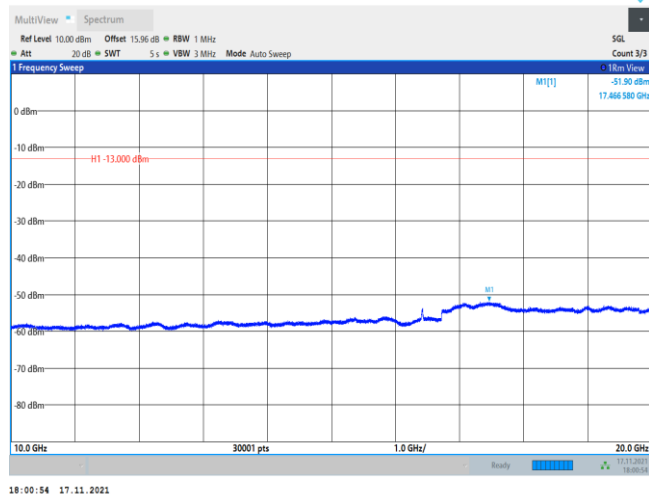
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Band4-1413-3000~10000MHz



Band4-1413-10000~20000MHz



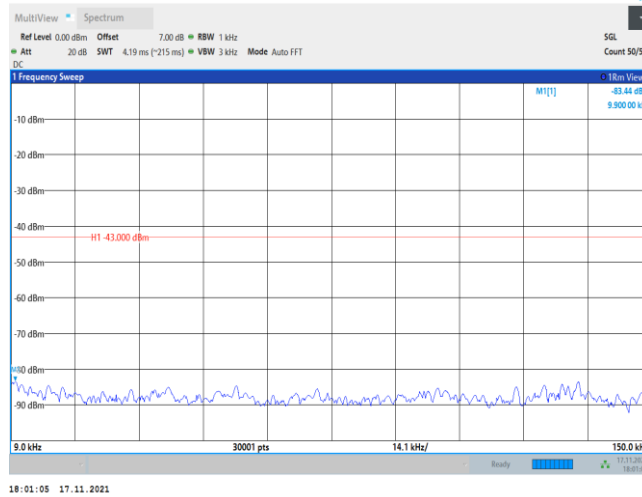
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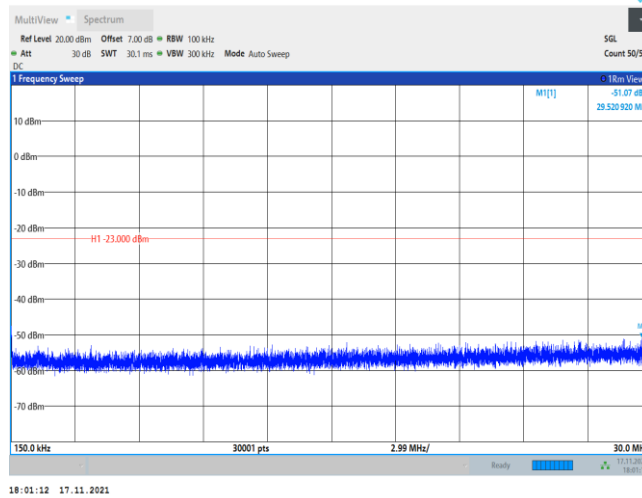
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Band4-1513-0.009~0.15MHz



Band4-1513-0.15~30MHz

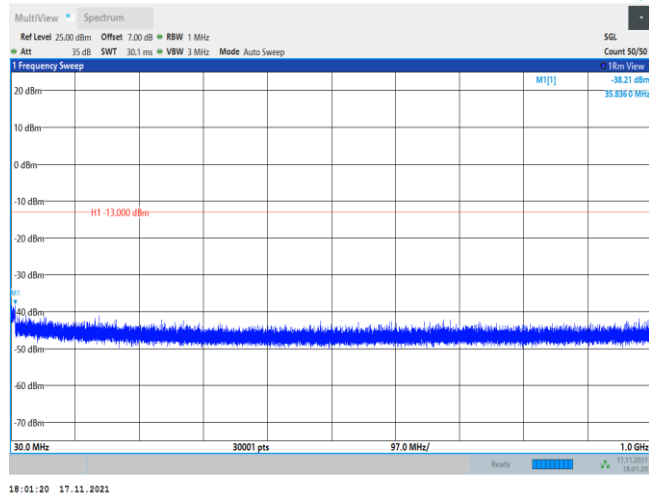


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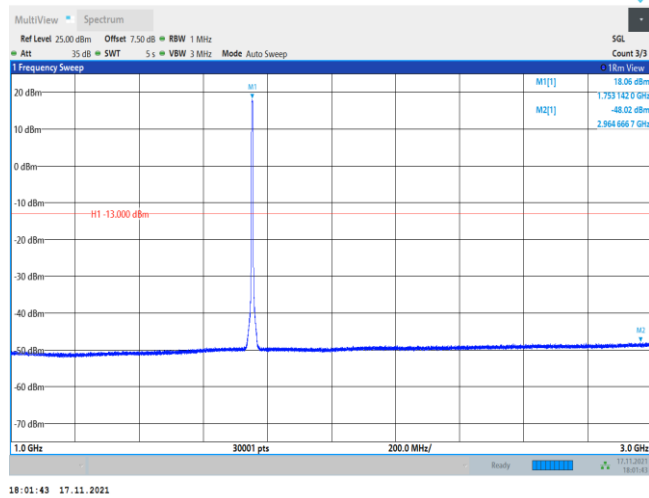
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Band4-1513-30~1000MHz



Band4-1513-1000~3000MHz

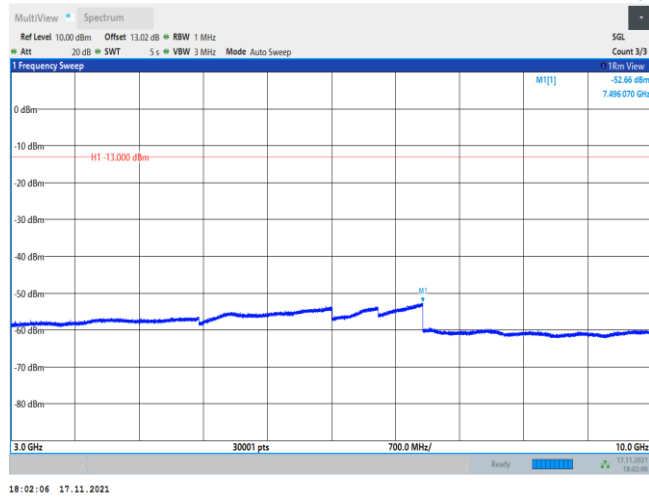


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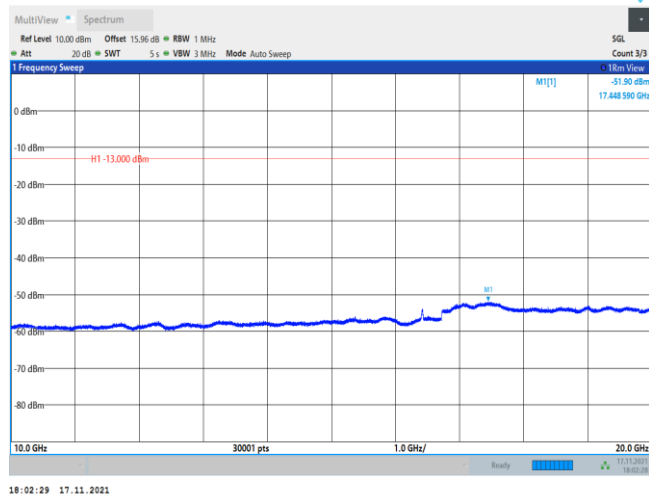
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Band4-1513-3000~10000MHz



Band4-1513-10000~20000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA Band 2 _TM1

Test Channel =Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3707.2500	62.60	-48.44	-13.00	35.44	185	189	Horizontal
2	5560.5000	57.08	-49.26	-13.00	36.26	146	21	Horizontal
3	7409.6000	52.38	-48.38	-13.00	35.38	324	64	Horizontal
4	9262.0000	45.93	-49.15	-13.00	36.15	243	332	Horizontal
5	11114.4000	43.62	-47.47	-13.00	34.47	302	351	Horizontal
6	12973.5000	46.83	-43.76	-13.00	30.76	193	46	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8000	59.75	-51.30	-13.00	38.30	169	46	Vertical
2	5557.2000	56.95	-49.40	-13.00	36.40	185	326	Vertical
3	7409.6000	50.78	-49.98	-13.00	36.98	246	86	Vertical
4	9262.0000	45.12	-49.96	-13.00	36.96	305	65	Vertical
5	11114.4000	42.78	-48.31	-13.00	35.31	125	233	Vertical
6	16954.5000	42.35	-45.89	-13.00	32.89	243	108	Vertical



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Test Band = WCDMA Band 2 _TM1
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	59.03	-51.74	-13.00	38.74	126	350	Horizontal
2	5640.0000	54.01	-52.01	-13.00	39.01	302	125	Horizontal
3	7520.0000	50.81	-49.44	-13.00	36.44	296	125	Horizontal
4	9400.0000	44.60	-50.26	-13.00	37.26	185	350	Horizontal
5	11280.0000	42.63	-48.59	-13.00	35.59	160	256	Horizontal
6	15031.5000	45.67	-44.52	-13.00	31.52	152	125	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	62.02	-48.75	-13.00	35.75	168	50	Vertical
2	5640.0000	57.48	-48.54	-13.00	35.54	256	326	Vertical
3	7520.0000	50.37	-49.88	-13.00	36.88	326	1	Vertical
4	9400.0000	44.73	-50.13	-13.00	37.13	125	345	Vertical
5	11280.0000	42.18	-49.04	-13.00	36.04	105	69	Vertical
6	15215.2500	43.74	-45.29	-13.00	32.29	324	112	Vertical



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Test Band = WCDMA Band 2_TM1
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2000	59.49	-51.05	-13.00	38.05	185	195	Horizontal
2	5722.8000	52.84	-52.78	-13.00	39.78	169	152	Horizontal
3	7630.4000	49.30	-50.48	-13.00	37.48	345	133	Horizontal
4	9538.0000	44.29	-50.55	-13.00	37.55	125	47	Horizontal
5	11445.6000	43.12	-48.31	-13.00	35.31	135	0	Horizontal
6	14699.2500	43.34	-45.91	-13.00	32.91	198	220	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813.0000	64.29	-46.26	-13.00	33.26	169	39	Vertical
2	5722.8000	55.27	-50.35	-13.00	37.35	185	332	Vertical
3	7630.4000	48.46	-51.32	-13.00	38.32	204	45	Vertical
4	9538.0000	43.90	-50.94	-13.00	37.94	159	326	Vertical
5	11445.6000	42.01	-49.42	-13.00	36.42	351	20	Vertical
6	17854.5000	41.85	-42.34	-13.00	29.34	156	0	Vertical



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Test Band = WCDMA Band 4_TM1
Test Channel =Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8000	51.62	-60.08	-13.00	47.08	196	145	Horizontal
2	5137.2000	50.16	-56.74	-13.00	43.74	145	70	Horizontal
3	6849.6000	48.64	-53.22	-13.00	40.22	138	289	Horizontal
4	8562.0000	46.86	-49.98	-13.00	36.98	246	46	Horizontal
5	10274.4000	42.97	-50.25	-13.00	37.25	302	133	Horizontal
6	13995.0000	44.07	-46.04	-13.00	33.04	192	351	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8000	54.77	-56.93	-13.00	43.93	185	4	Vertical
2	5137.2000	50.75	-56.15	-13.00	43.15	176	1	Vertical
3	6849.6000	47.49	-54.37	-13.00	41.37	342	281	Vertical
4	8562.0000	46.29	-50.55	-13.00	37.55	105	226	Vertical
5	10274.4000	43.38	-49.84	-13.00	36.84	286	357	Vertical
6	17701.5000	41.81	-43.01	-13.00	30.01	145	25	Vertical



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Test Band = WCDMA Band 4 _TM1
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2000	52.55	-59.07	-13.00	46.07	185	158	Horizontal
2	5197.8000	49.64	-57.17	-13.00	44.17	196	313	Horizontal
3	6930.4000	48.23	-53.45	-13.00	40.45	246	58	Horizontal
4	8663.0000	45.31	-51.26	-13.00	38.26	105	295	Horizontal
5	10395.6000	42.58	-50.23	-13.00	37.23	240	133	Horizontal
6	17577.0000	40.96	-45.21	-13.00	32.21	150	8	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2000	53.94	-57.68	-13.00	44.68	163	26	Vertical
2	5184.0000	58.44	-48.39	-13.00	35.39	216	301	Vertical
3	6882.0000	53.04	-48.71	-13.00	35.71	186	39	Vertical
4	8663.0000	45.87	-50.70	-13.00	37.70	302	283	Vertical
5	10395.6000	42.73	-50.08	-13.00	37.08	106	13	Vertical
6	17863.5000	41.93	-42.24	-13.00	29.24	196	76	Vertical



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Test Band = WCDMA Band 4_TM1
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2000	52.30	-59.21	-13.00	46.21	163	351	Horizontal
2	5257.8000	49.95	-56.78	-13.00	43.78	196	57	Horizontal
3	7010.4000	48.19	-53.44	-13.00	40.44	263	76	Horizontal
4	8763.0000	45.16	-50.97	-13.00	37.97	338	95	Horizontal
5	10515.6000	44.31	-48.24	-13.00	35.24	196	0	Horizontal
6	13945.5000	43.77	-45.99	-13.00	32.99	105	164	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2000	53.72	-57.79	-13.00	44.79	326	4	Vertical
2	5257.8000	50.41	-56.32	-13.00	43.32	286	351	Vertical
3	7010.4000	49.38	-52.25	-13.00	39.25	193	351	Vertical
4	8763.0000	45.98	-50.15	-13.00	37.15	215	96	Vertical
5	10515.6000	43.66	-48.89	-13.00	35.89	298	33	Vertical
6	16445.2500	42.83	-46.29	-13.00	33.29	154	339	Vertical



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Frequency Stability

Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9262	VL	NT	0.74	0.000399	PASS
Band2	9262	VN	NT	0.23	0.000124	PASS
Band2	9262	VH	NT	1.16	0.000626	PASS
Band2	9400	VL	NT	-0.72	-0.000383	PASS
Band2	9400	VN	NT	-0.47	-0.000250	PASS
Band2	9400	VH	NT	-0.81	-0.000431	PASS
Band2	9538	VL	NT	-3.79	-0.001987	PASS
Band2	9538	VN	NT	-3.73	-0.001955	PASS
Band2	9538	VH	NT	-3.65	-0.001913	PASS
Band4	1312	VL	NT	9.36	0.005466	PASS
Band4	1312	VN	NT	9.18	0.005361	PASS
Band4	1312	VH	NT	9.63	0.005624	PASS
Band4	1413	VL	NT	0.39	0.000225	PASS
Band4	1413	VN	NT	0.70	0.000404	PASS
Band4	1413	VH	NT	0.39	0.000225	PASS
Band4	1513	VL	NT	-9.43	-0.005381	PASS
Band4	1513	VN	NT	-10.44	-0.005957	PASS
Band4	1513	VH	NT	-9.88	-0.005637	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9262	NV	-20	1.49	0.000804	PASS
Band2	9262	NV	-10	1.19	0.000642	PASS
Band2	9262	NV	0	1.52	0.000821	PASS
Band2	9262	NV	10	1.42	0.000767	PASS
Band2	9262	NV	20	1.57	0.000848	PASS
Band2	9262	NV	30	1.56	0.000842	PASS
Band2	9262	NV	40	1.72	0.000929	PASS
Band2	9262	NV	50	1.63	0.000880	PASS
Band2	9400	NV	-20	-0.88	-0.000468	PASS
Band2	9400	NV	-10	-1.19	-0.000633	PASS
Band2	9400	NV	0	-1.00	-0.000532	PASS
Band2	9400	NV	10	-1.01	-0.000537	PASS
Band2	9400	NV	20	-0.62	-0.000330	PASS
Band2	9400	NV	30	-0.80	-0.000426	PASS
Band2	9400	NV	40	-1.01	-0.000537	PASS
Band2	9400	NV	50	-0.86	-0.000457	PASS
Band2	9538	NV	-20	-3.77	-0.001976	PASS
Band2	9538	NV	-10	-3.50	-0.001835	PASS
Band2	9538	NV	0	-3.56	-0.001866	PASS
Band2	9538	NV	10	-3.81	-0.001997	PASS
Band2	9538	NV	20	-3.69	-0.001934	PASS
Band2	9538	NV	30	-3.88	-0.002034	PASS
Band2	9538	NV	40	-3.77	-0.001976	PASS
Band2	9538	NV	50	-3.52	-0.001845	PASS
Band4	1312	NV	-20	9.57	0.005589	PASS
Band4	1312	NV	-10	9.66	0.005641	PASS
Band4	1312	NV	0	9.75	0.005694	PASS
Band4	1312	NV	10	9.88	0.005770	PASS
Band4	1312	NV	20	9.66	0.005641	PASS
Band4	1312	NV	30	9.97	0.005822	PASS
Band4	1312	NV	40	10.10	0.005898	PASS
Band4	1312	NV	50	10.45	0.006103	PASS
Band4	1413	NV	-20	-0.10	-0.000058	PASS
Band4	1413	NV	-10	-0.13	-0.000075	PASS



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Band4	1413	NV	0	0.12	0.000069	PASS
Band4	1413	NV	10	0.33	0.000190	PASS
Band4	1413	NV	20	-0.04	-0.000023	PASS
Band4	1413	NV	30	-0.03	-0.000017	PASS
Band4	1413	NV	40	-0.34	-0.000196	PASS
Band4	1413	NV	50	-0.01	-0.000006	PASS
Band4	1513	NV	-20	-9.71	-0.005540	PASS
Band4	1513	NV	-10	-9.66	-0.005512	PASS
Band4	1513	NV	0	-9.43	-0.005381	PASS
Band4	1513	NV	10	-9.68	-0.005523	PASS
Band4	1513	NV	20	-10.12	-0.005774	PASS
Band4	1513	NV	30	-9.51	-0.005426	PASS
Band4	1513	NV	40	-10.08	-0.005751	PASS
Band4	1513	NV	50	-10.26	-0.005854	PASS

The End



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