Appendix B.1

WCDMA Band II&IV&V

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
BandII	9262	23.87	25.81	33.01	PASS
BandII	9400	23.8	25.74	33.01	PASS
BandII	9538	23.93	25.87	33.01	PASS
BandIV	1312	23.95	24.86	30.00	PASS
BandIV	1413	23.81	24.72	30.00	PASS
BandIV	1513	23.67	24.58	30.00	PASS
Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
BandV	4132	23.65	20.28	38.45	PASS
BandV	4182	23.65	20.28	38.45	PASS
BandV	4233	23.56	20.19	38.45	PASS

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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BandII	9262	2.88	13	PASS
BandII	9400	2.96	13	PASS
BandII	9538	3.06	13	PASS
BandIV	1312	2.72	13	PASS
BandIV	1413	3.24	13	PASS
BandIV	1513	2.86	13	PASS
BandV	4132	3.06	13	PASS
BandV	4182	2.88	13	PASS
BandV	4233	2.76	13	PASS

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Test Graphs

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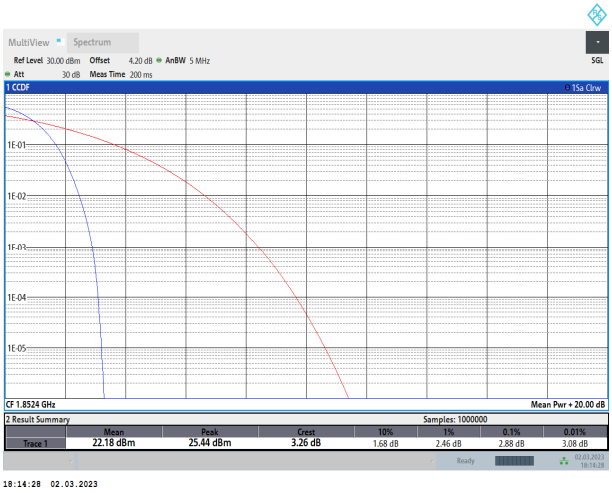
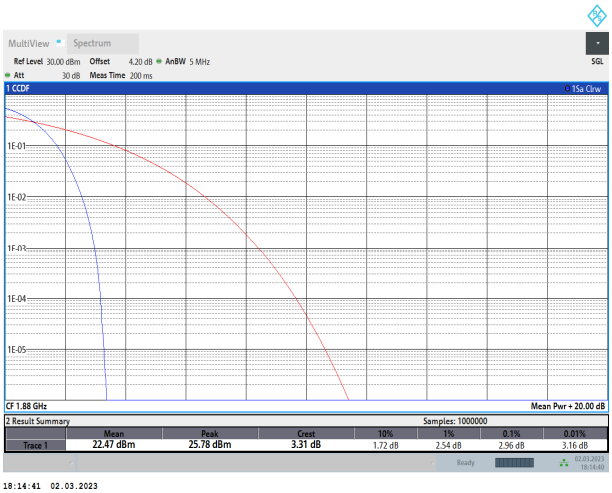


BandII-9400


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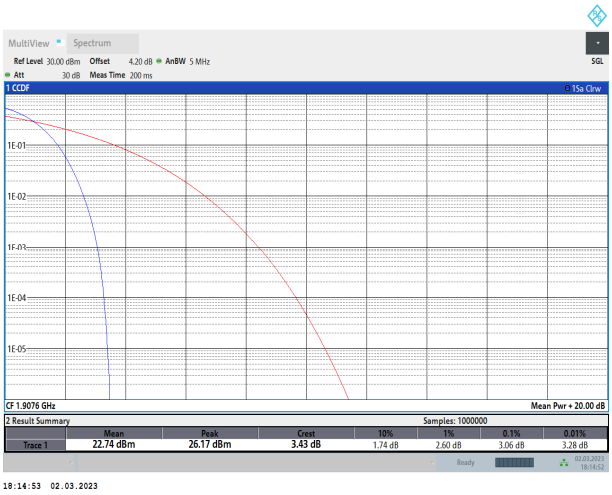
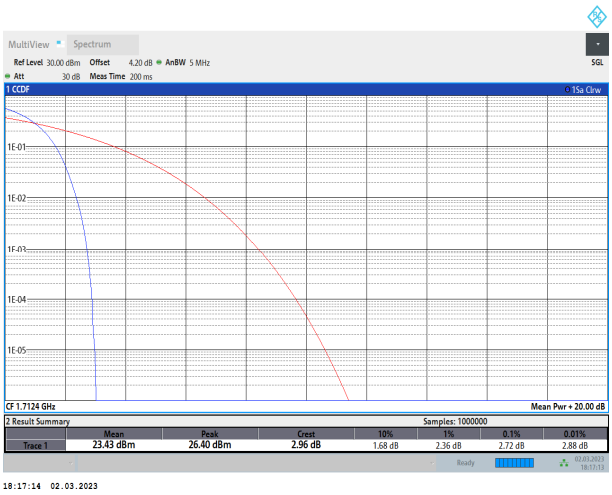
BandII-9538



BandIV-1312



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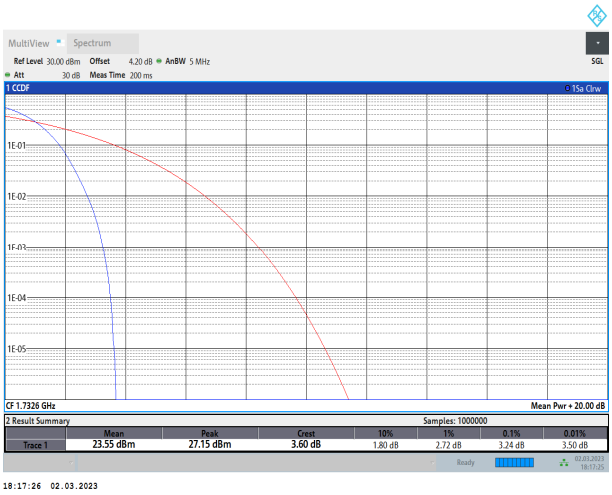
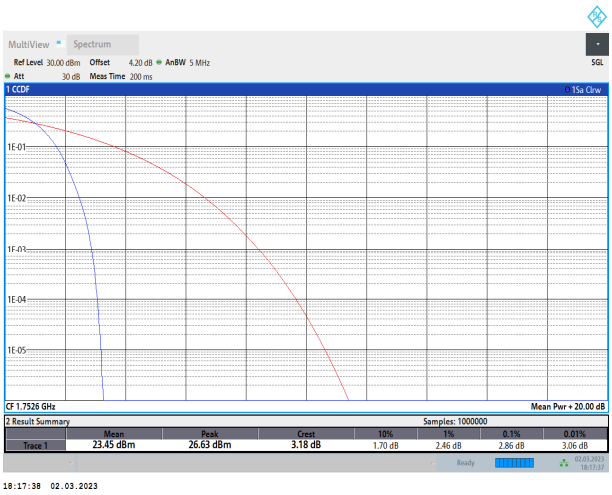
BandIV-1413



BandIV-1513



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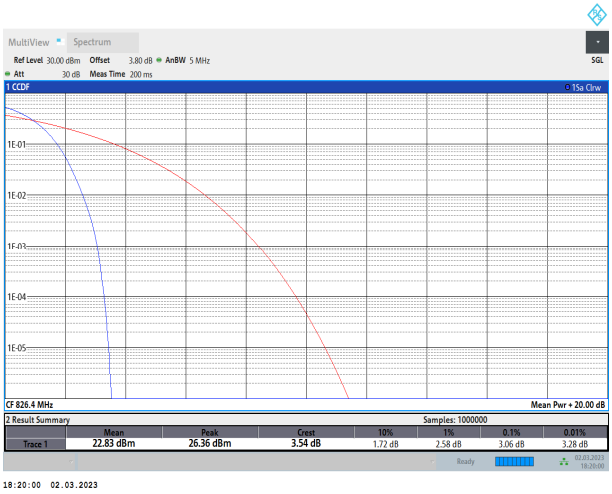
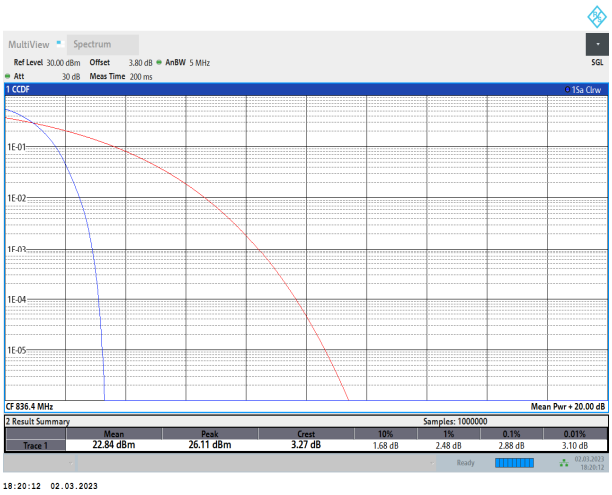
BandV-4132



BandV-4182



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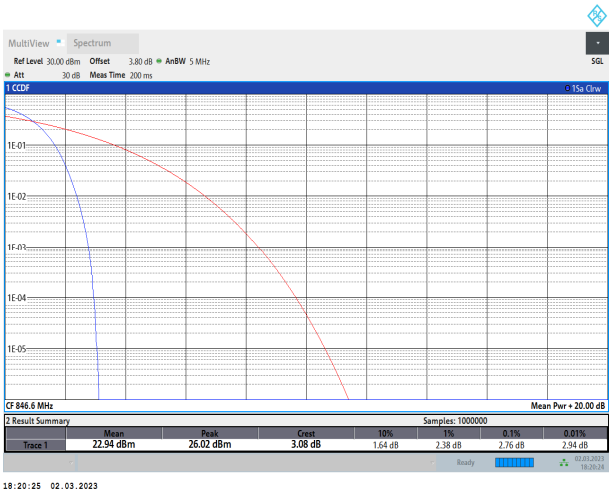
BandV-4233



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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
BandII	9400	PASS	PASS
BandIV	1513	PASS	PASS
BandV	4182	PASS	PASS

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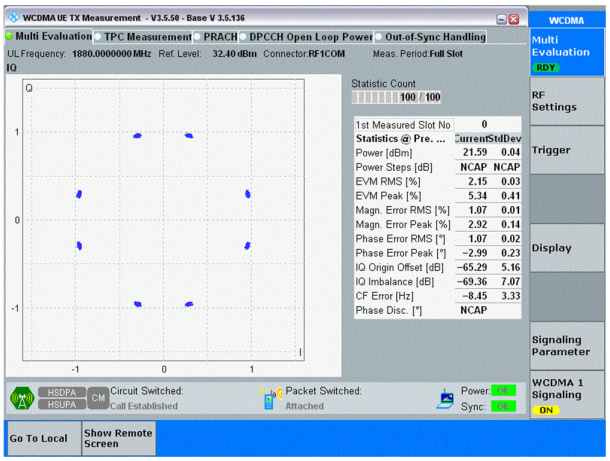
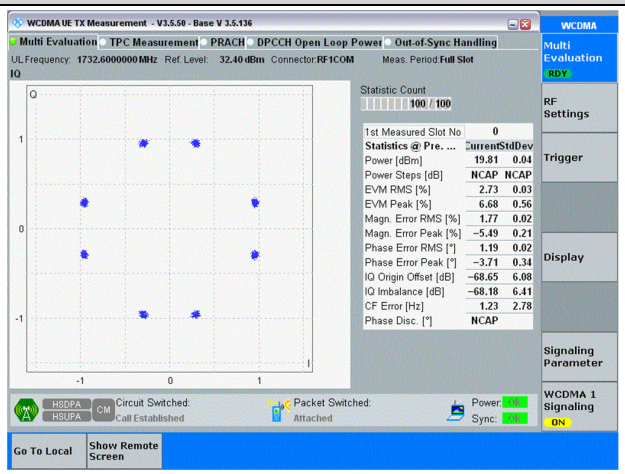
Test Graphs

BandII-9400



BandIV-1513



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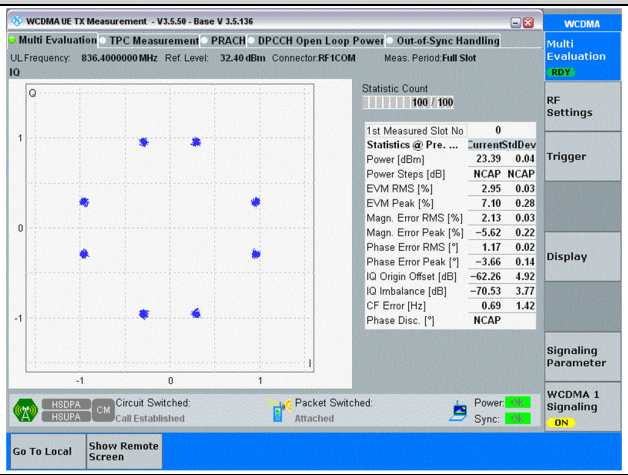
BandV-4182



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26dB Bandwidth andOccupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
BandII	9262	4.17	4.71	---	PASS
BandII	9400	4.159	4.69	---	PASS
BandII	9538	4.168	4.69	---	PASS
BandIV	1312	4.153	4.69	---	PASS
BandIV	1413	4.153	4.68	---	PASS
BandIV	1513	4.151	4.69	---	PASS
BandV	4132	4.154	4.69	---	PASS
BandV	4182	4.144	4.68	---	PASS
BandV	4233	4.155	4.70	---	PASS

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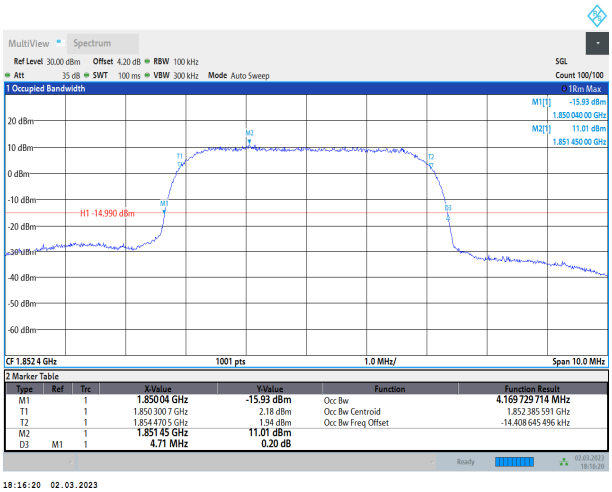
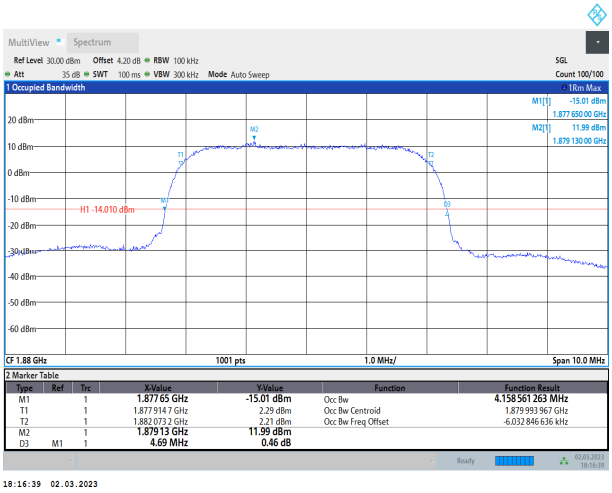
Test Graphs

BandII-9262



BandII-9400



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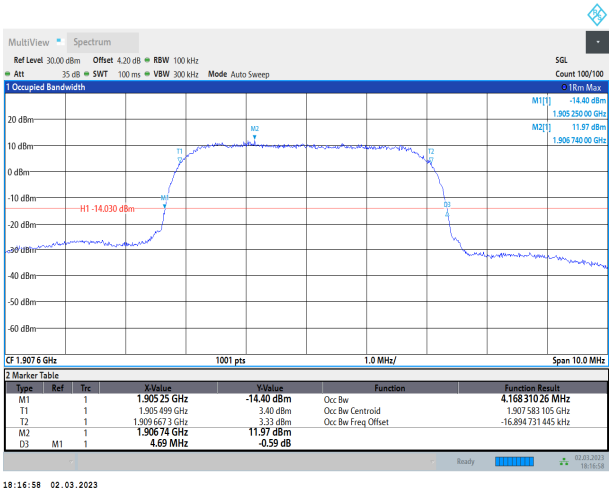
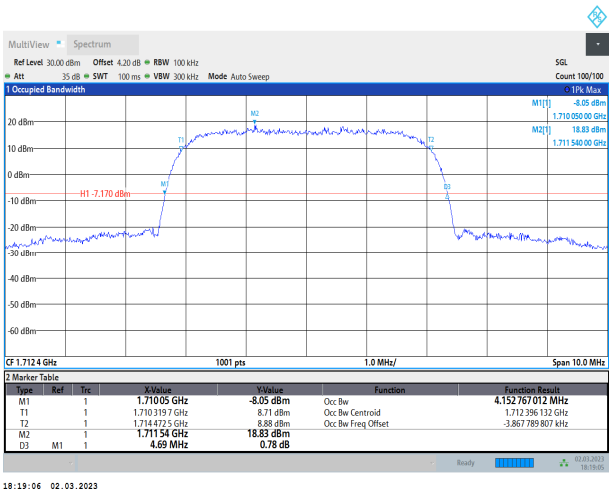
BandII-9538



BandIV-1312



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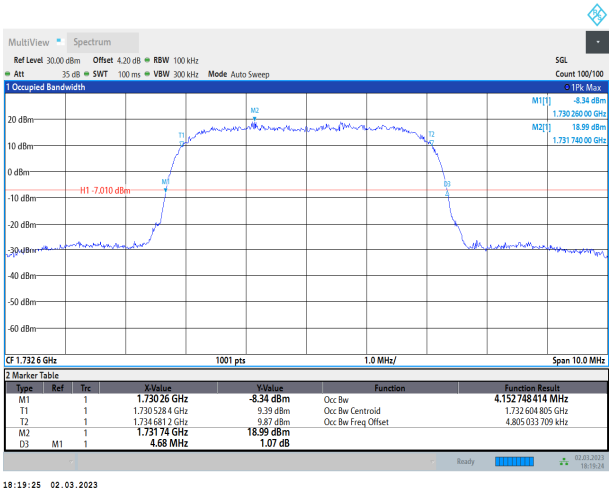
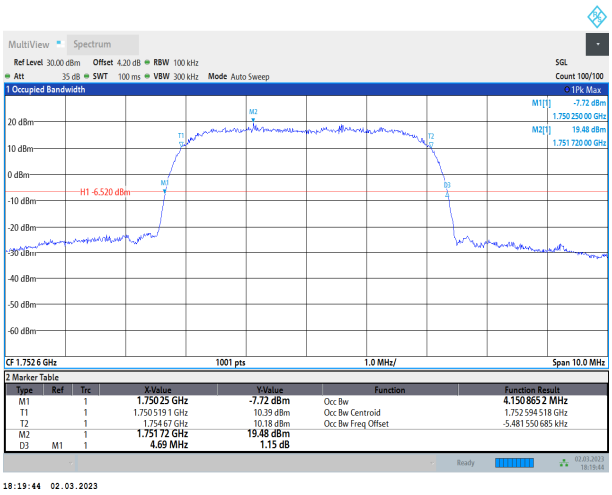
BandIV-1413



BandIV-1513



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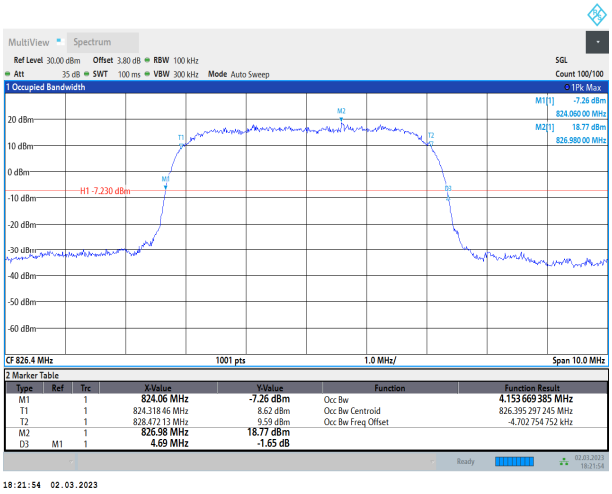
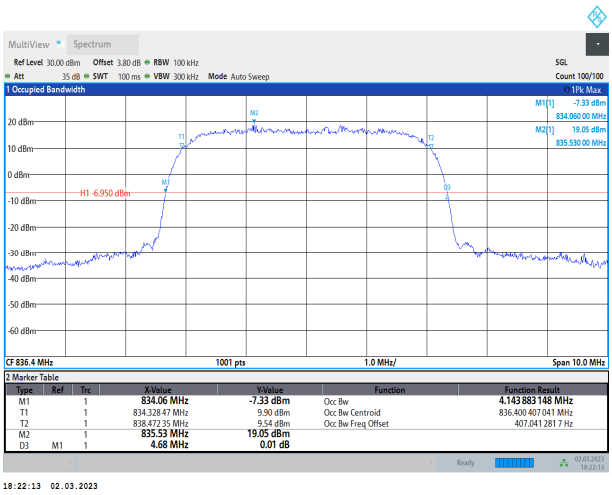
BandV-4132



BandV-4182



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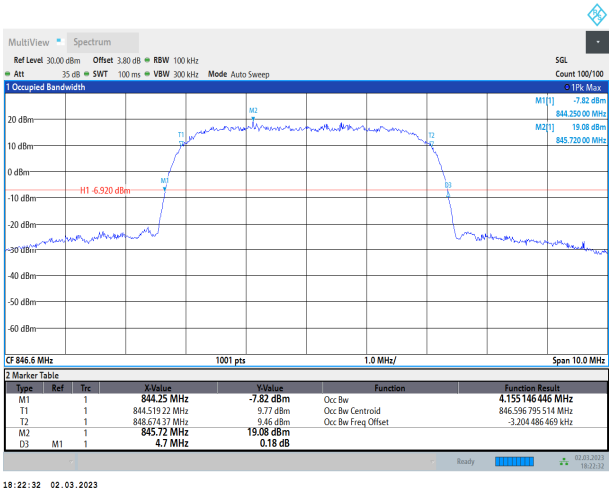
BandV-4233



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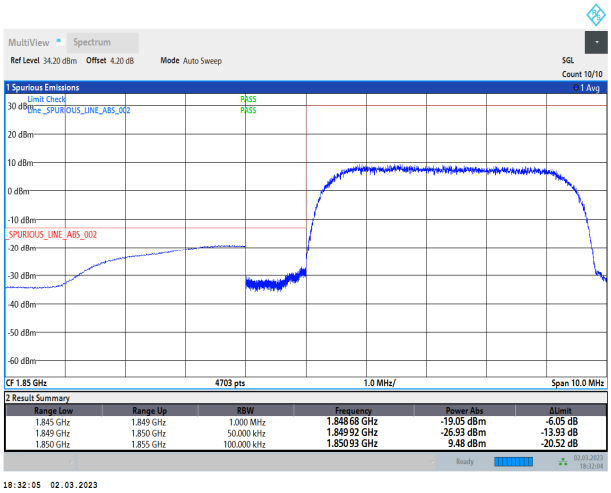
Band Edge

Test Graphs

BandII-9262


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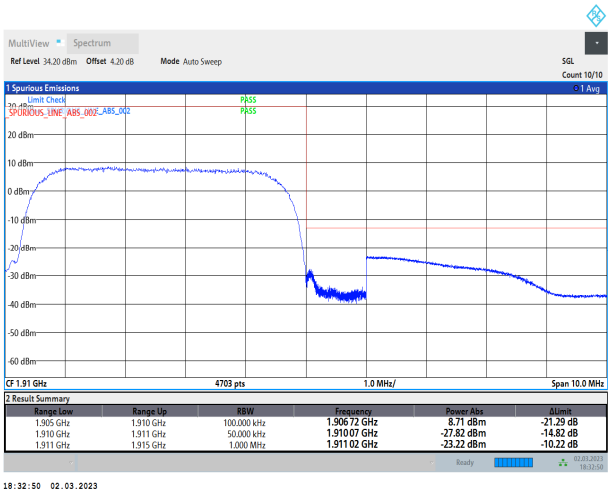

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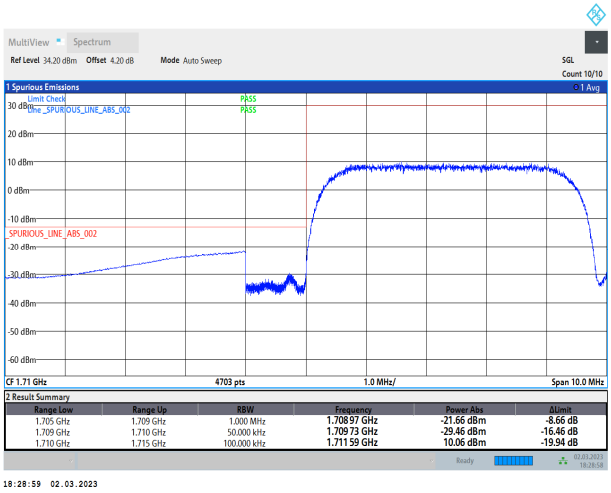
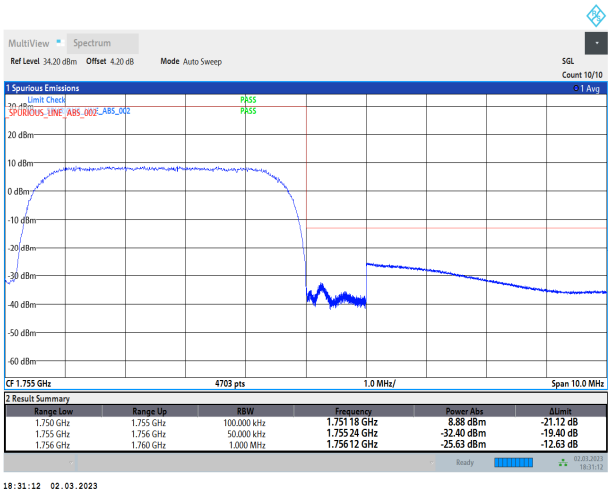
Band.4-1312



BandIV-1513



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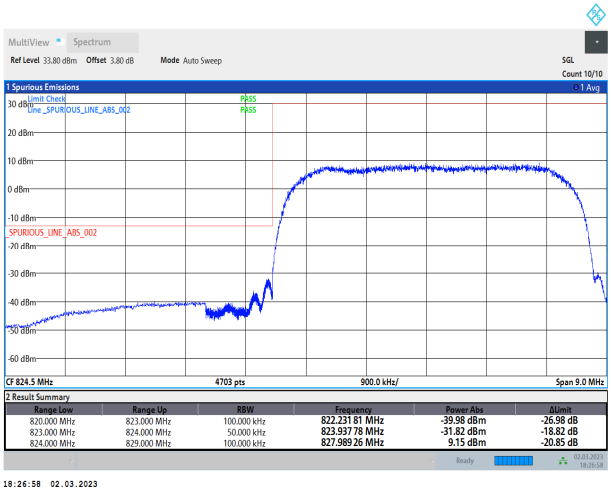
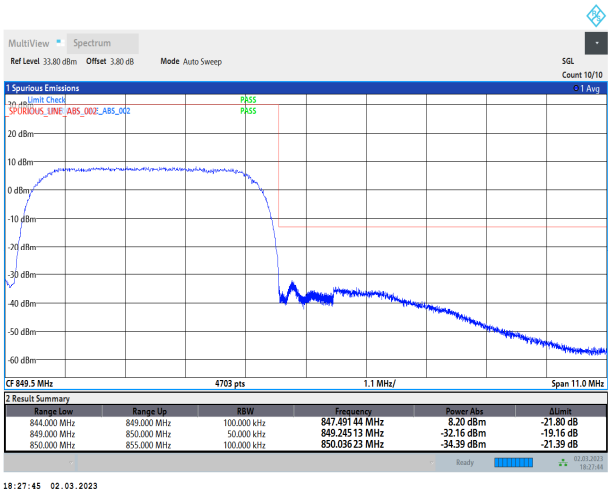
BandV-4132



BandV-4233



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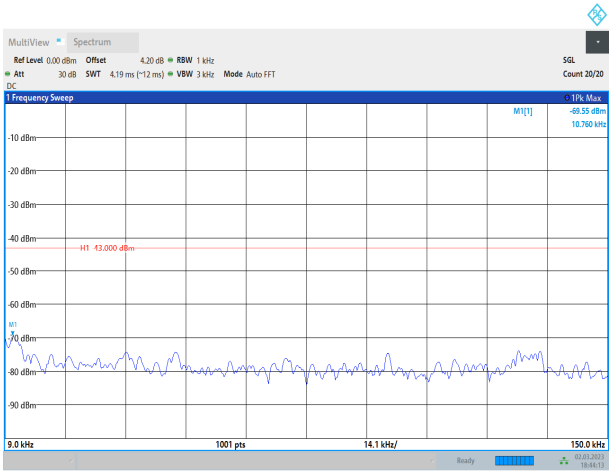
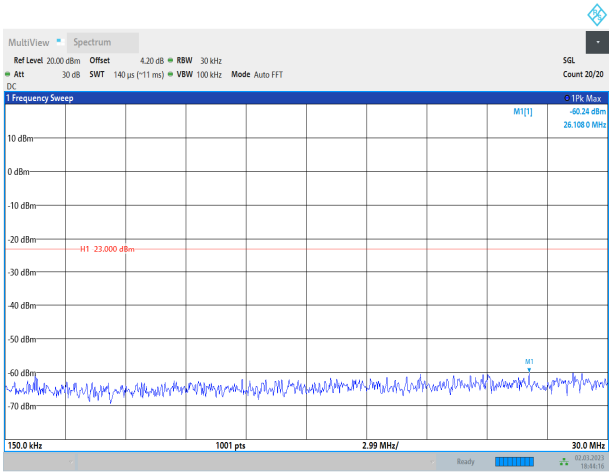
Conducted SpuriousEmission

Test Graphs

BandII-9262-0.009~0.15MHz



BandII-9262-0.15~30MHz



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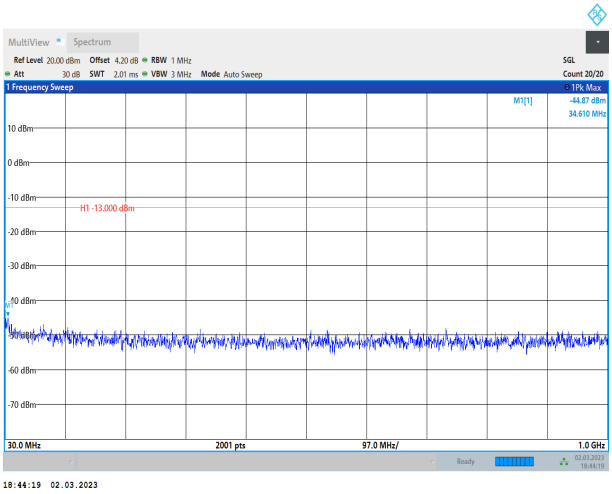
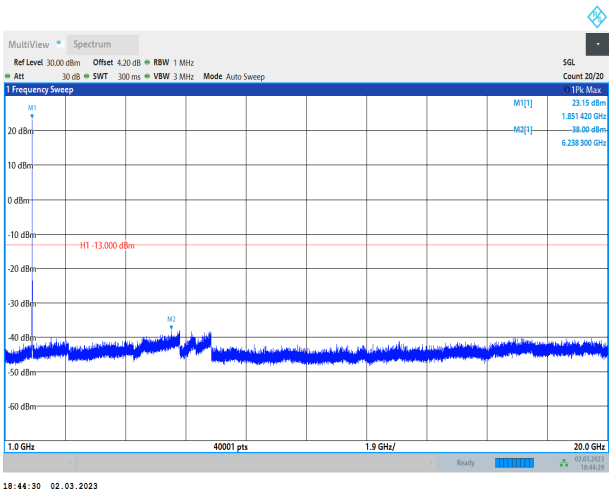
BandII-9262-30~1000MHz



BandII-9262-1000~20000MHz



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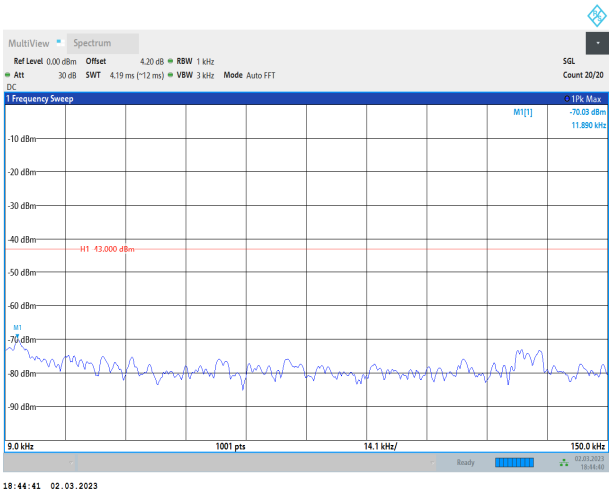
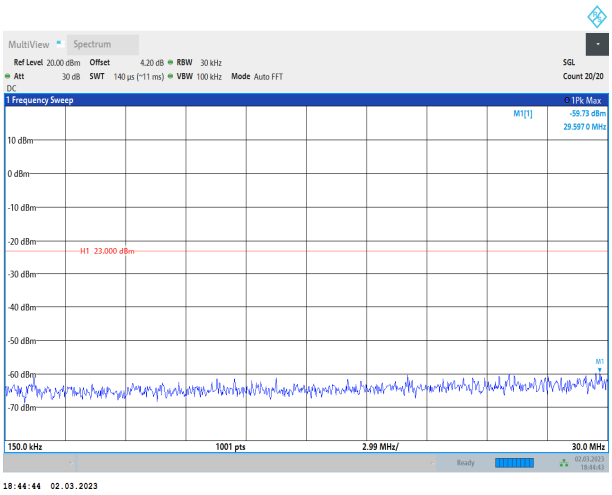
BandII-9400-0.009~0.15MHz



BandII-9400-0.15~30MHz



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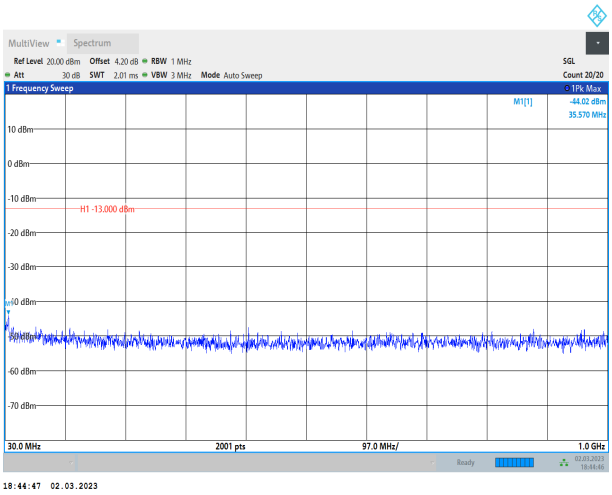
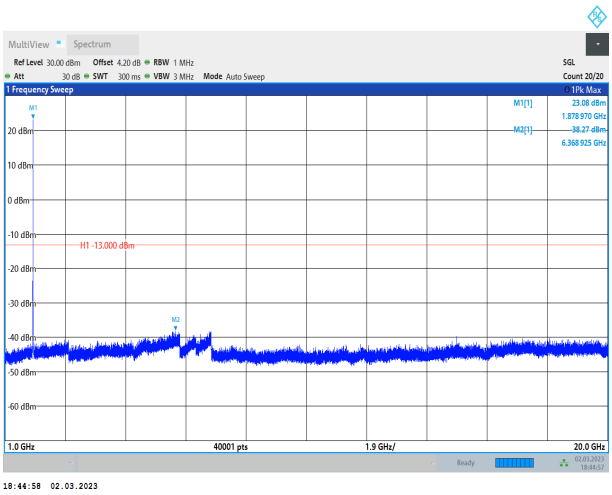
BandII-9400-30~1000MHz



BandII-9400-1000~20000MHz



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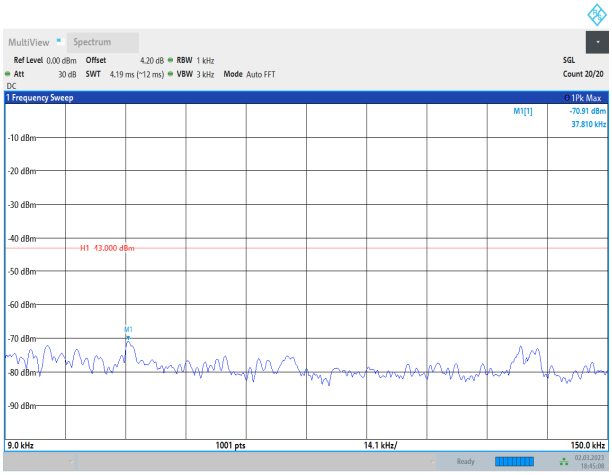
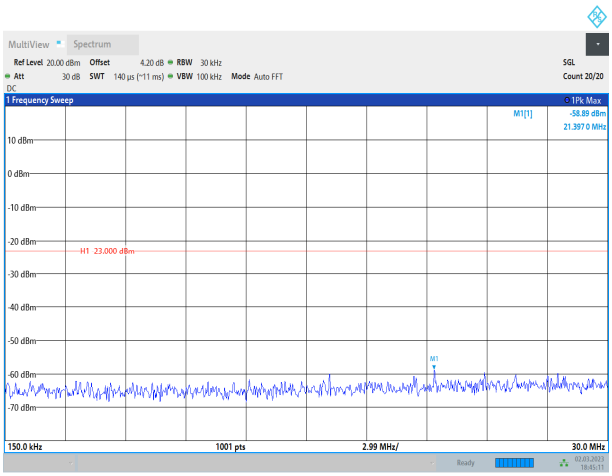
BandII-9538-0.009~0.15MHz



BandII-9538-0.15~30MHz



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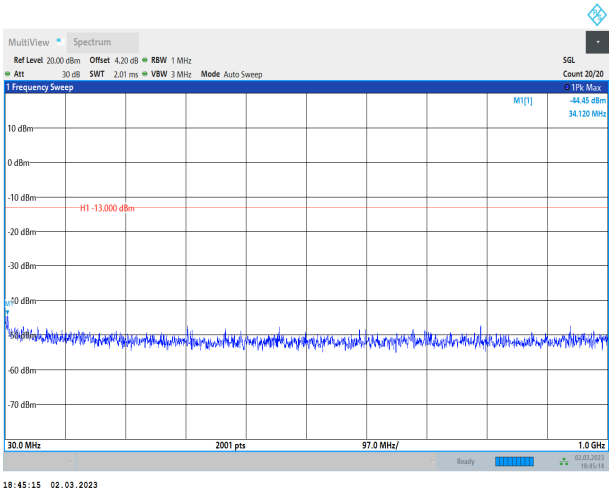
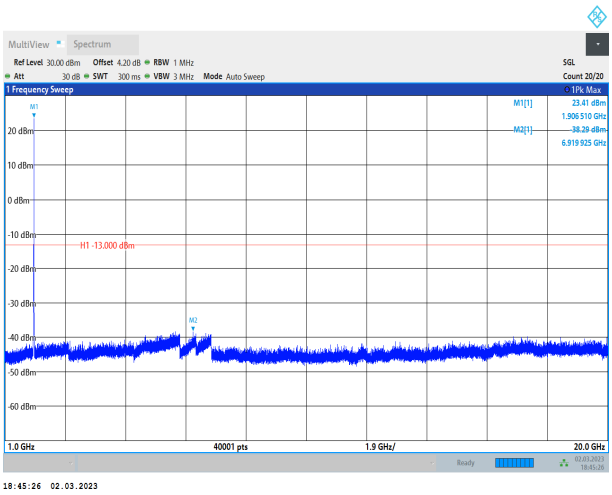
BandII-9538-30~1000MHz



BandII-9538-1000~20000MHz



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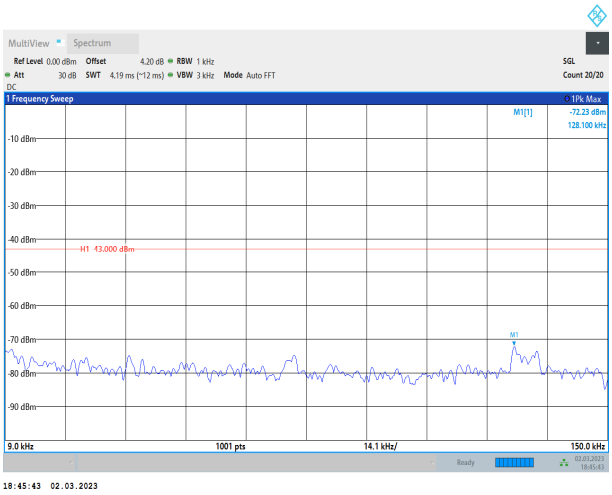
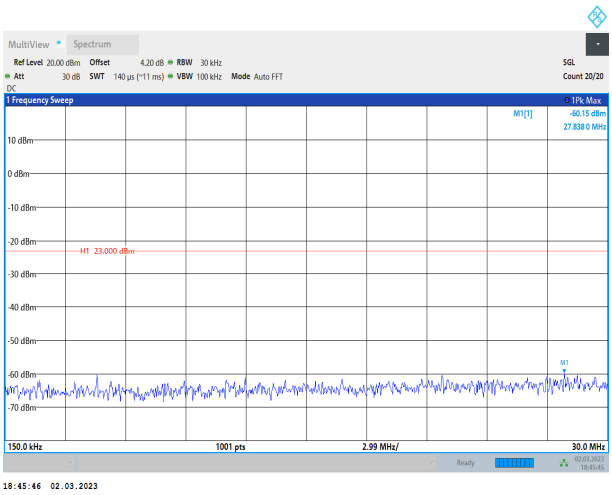
BandIV-1312-0.009~0.15MHz



BandIV-1312-0.15~30MHz



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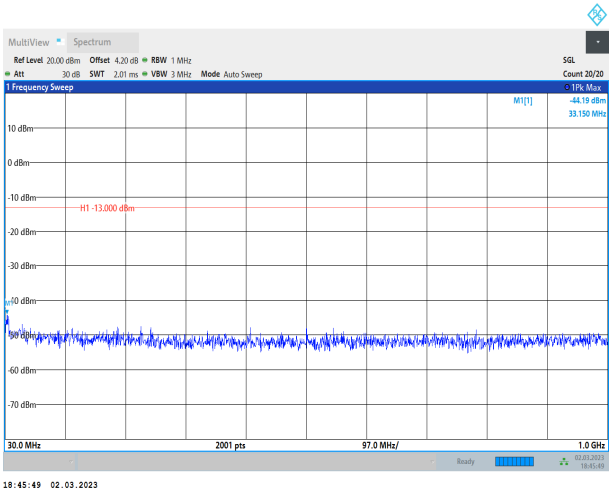
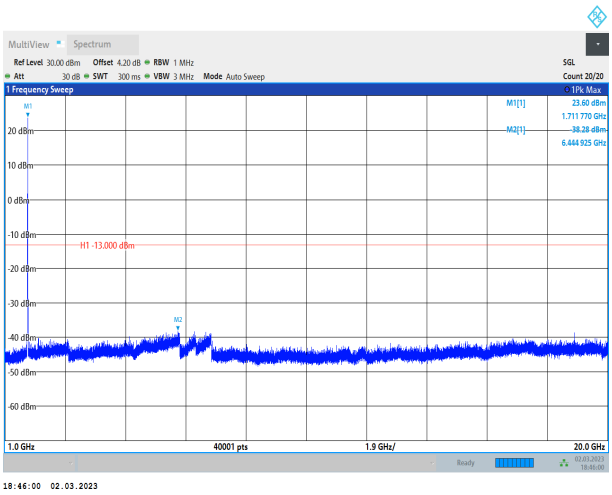
BandIV-1312-30~1000MHz



BandIV-1312-1000~20000MHz



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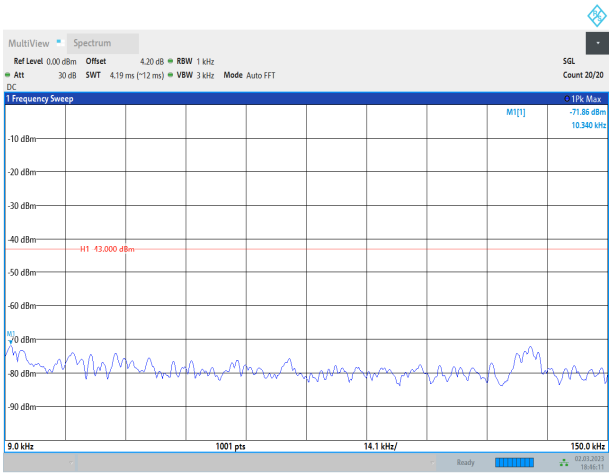
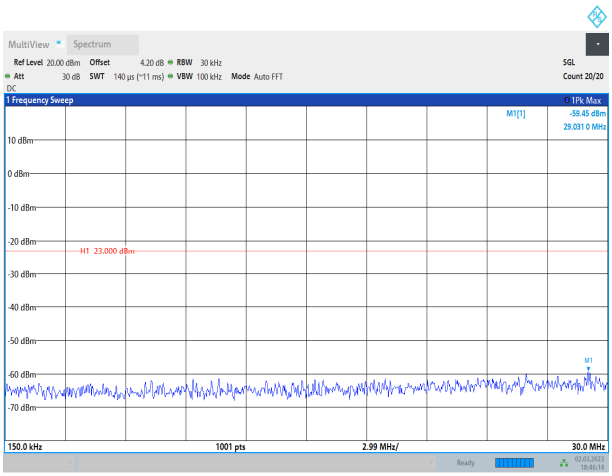
BandIV-1413-0.009~0.15MHz



BandIV-1413-0.15~30MHz



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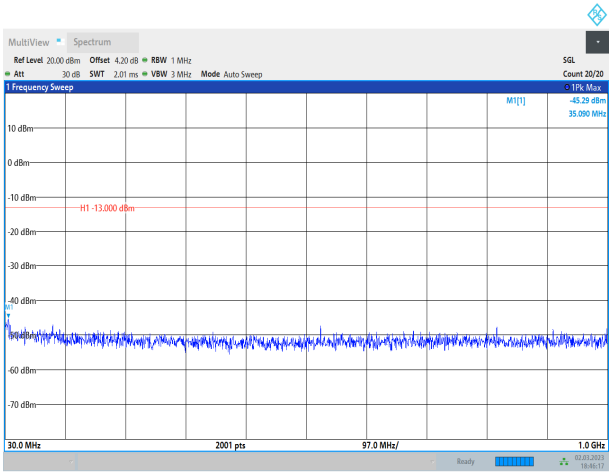
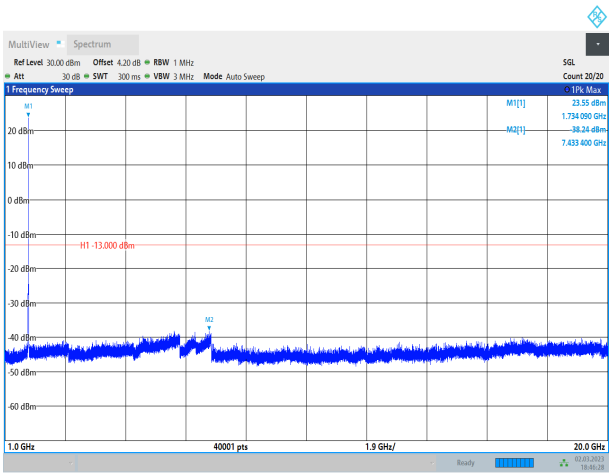
BandIV-1413-30~1000MHz



BandIV-1413-1000~20000MHz



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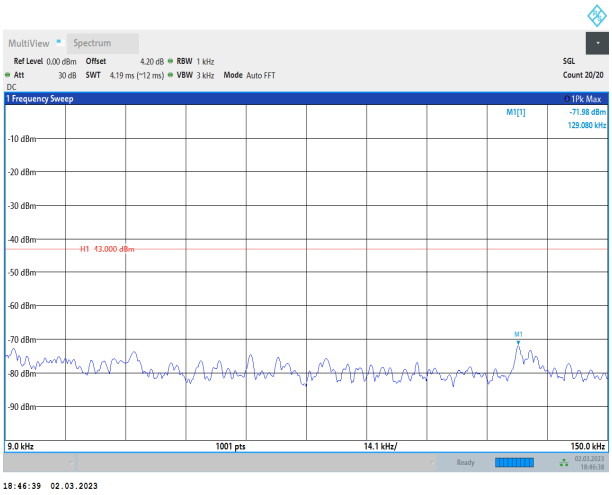
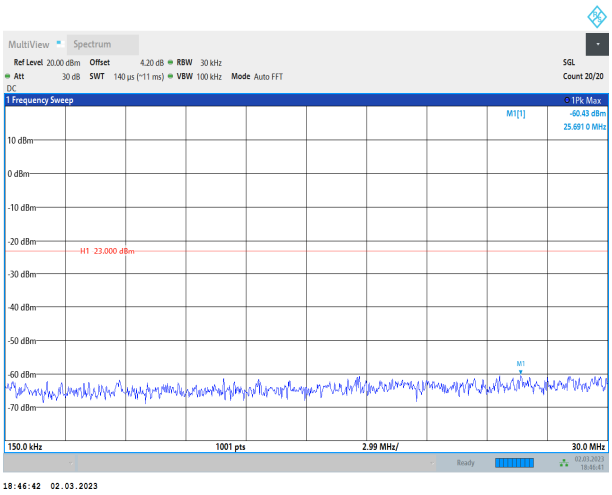
BandIV-1513-0.009~0.15MHz



BandIV-1513-0.15~30MHz



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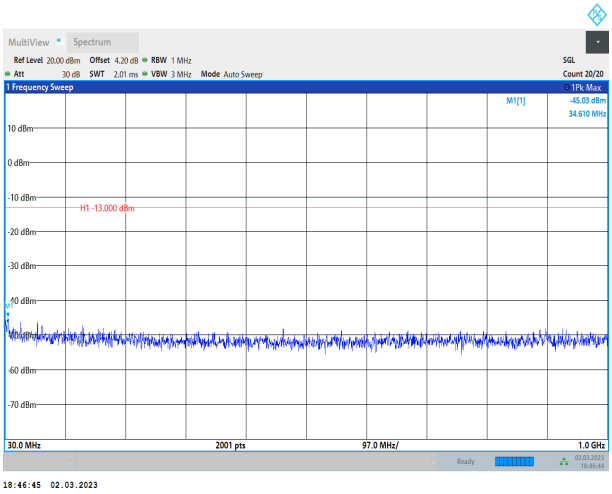
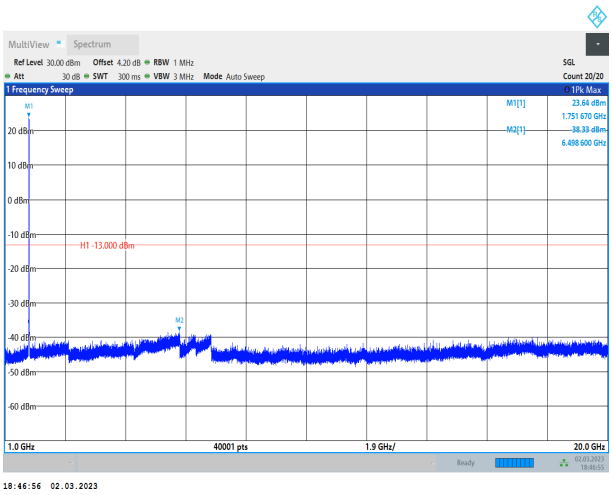
BandIV-1513-30~1000MHz



BandIV-1513-1000~20000MHz



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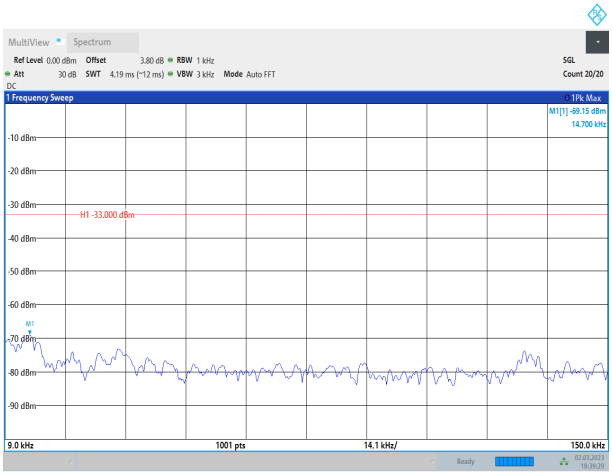
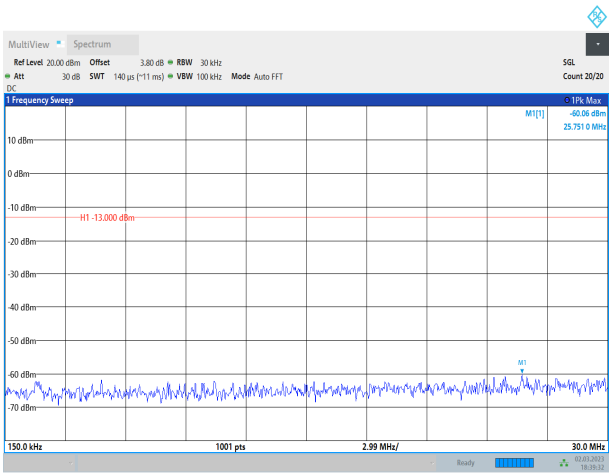
BandV-4132-0.009~0.15MHz



BandV-4132-0.15~30MHz



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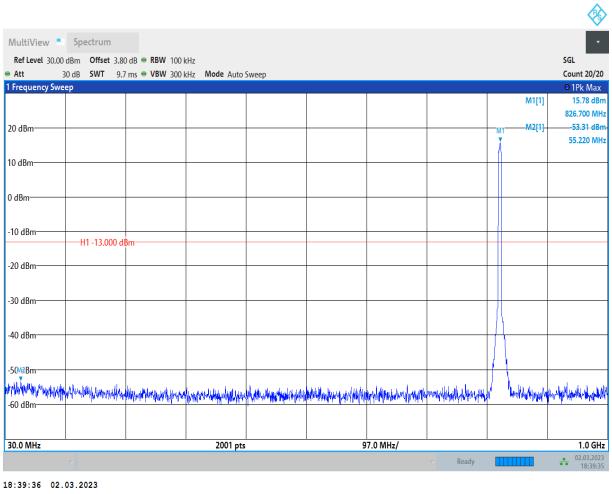
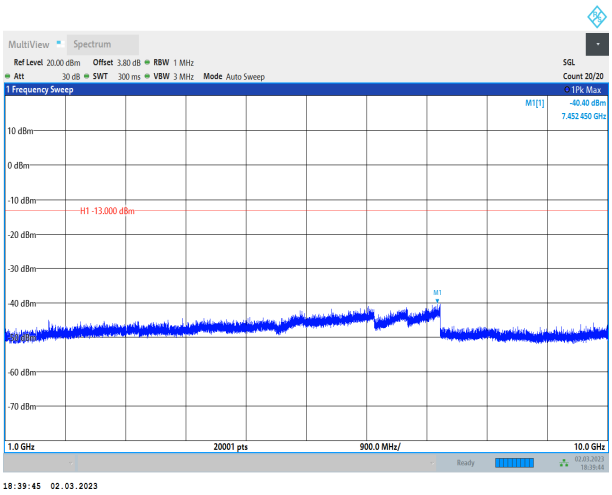
BandV-4132-30~1000MHz



BandV-4132-1000~10000MHz



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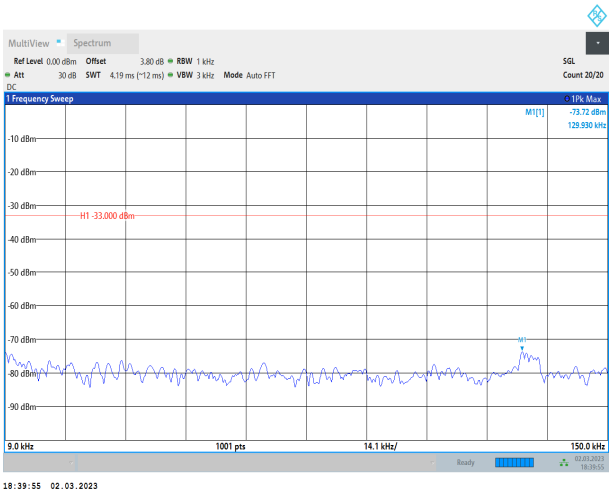
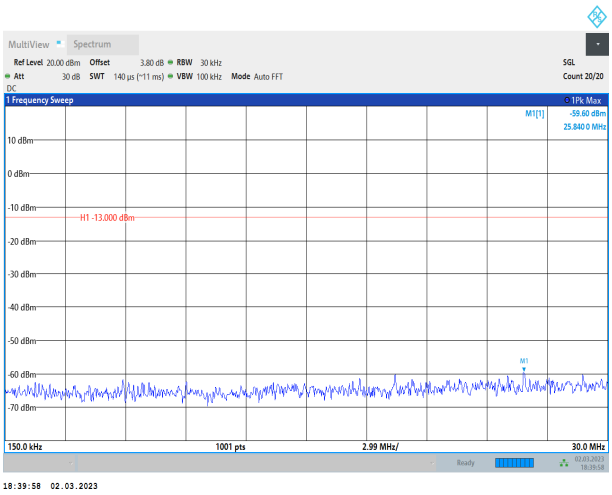
BandV-4182-0.009~0.15MHz



BandV-4182-0.15~30MHz



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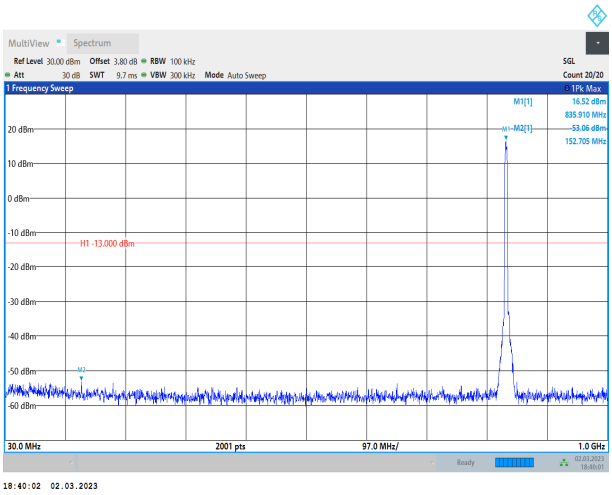
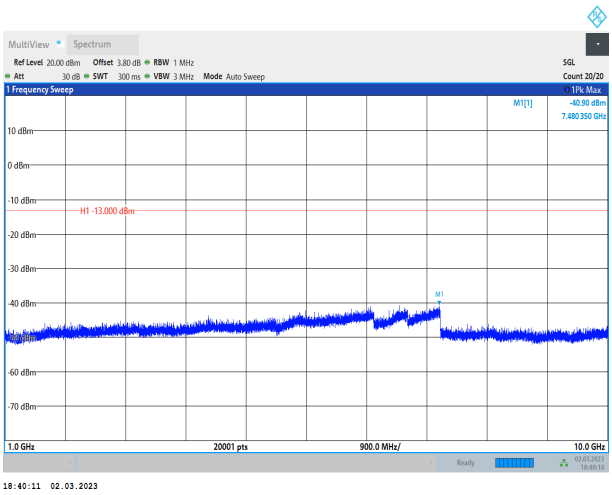
BandV-4182-30~1000MHz



BandV-4182-1000~10000MHz



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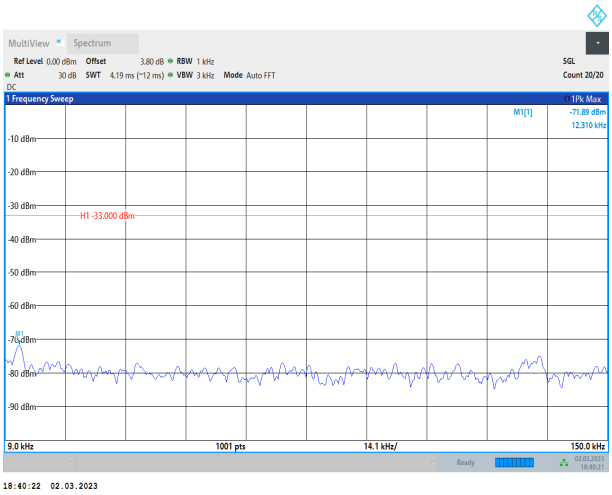
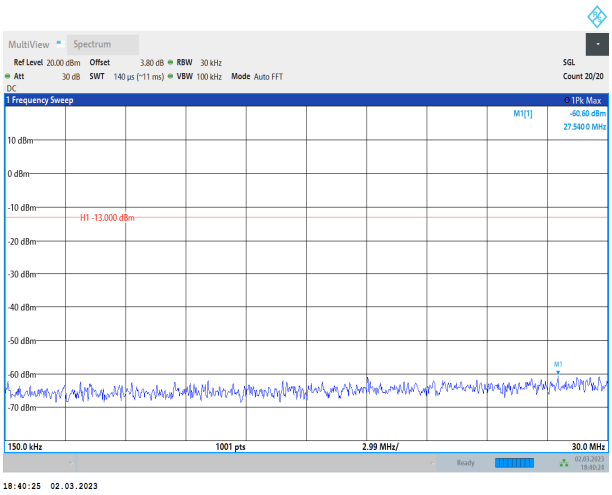
BandV-4233-0.009~0.15MHz



BandV-4233-0.15~30MHz



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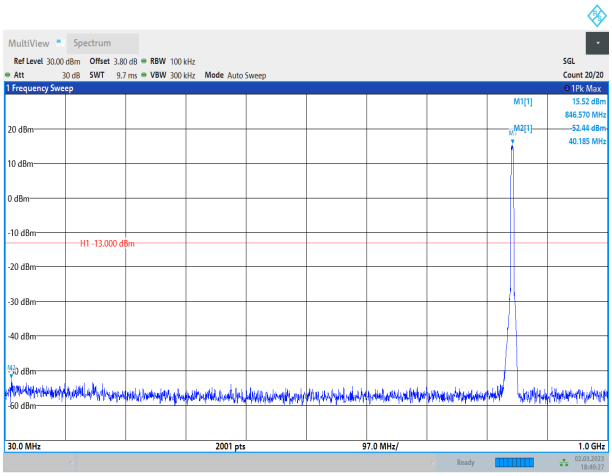
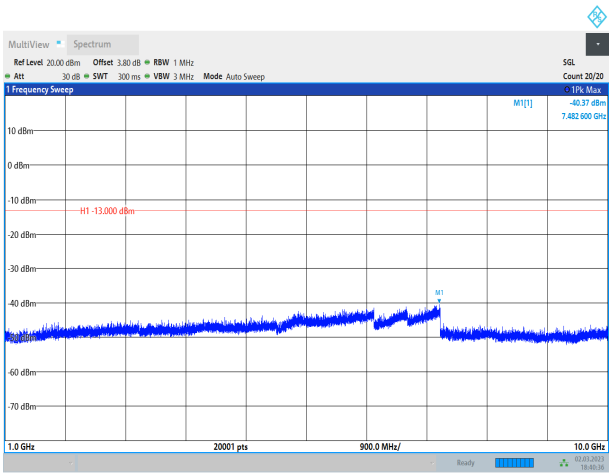
BandV-4233-30~1000MHz



BandV-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8000	42.31	-45.52	29.99	-68.48	-13.00	55.48	142	124	Horizontal
2	5557.2000	39.92	-45.14	32.97	-67.51	-13.00	54.51	165	303	Horizontal
3	7409.6000	39.75	-43.38	36.49	-62.41	-13.00	49.41	152	228	Horizontal
4	9262.0000	36.02	-40.23	38.39	-61.08	-13.00	48.08	185	214	Horizontal
5	11114.4000	33.21	-37.88	39.09	-60.84	-13.00	47.84	146	0	Horizontal
6	13709.25	34.37	-36.18	40.05	-57.03	-13.00	44.03	172	0	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	3702.75	45.76	-45.51	29.98	-65.03	-13.00	52.03	122	46	Vertical
2	5557.2000	40.63	-45.14	32.97	-66.80	-13.00	53.80	185	330	Vertical
3	7409.6000	39.45	-43.38	36.49	-62.71	-13.00	49.71	132	152	Vertical
4	9262.0000	36.82	-40.23	38.39	-60.28	-13.00	47.28	165	9	Vertical
5	11114.4000	33.69	-37.88	39.09	-60.36	-13.00	47.36	184	62	Vertical
6	13680.75	34.37	-36.14	40.07	-56.96	-13.00	43.96	175	92	Vertical

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Test Band = WCDMA Band II_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3761.25	48.32	-45.76	30.19	-62.51	-13.00	49.51	241	130	Horizontal
2	5640.0000	39.68	-44.98	33.17	-67.40	-13.00	54.40	136	102	Horizontal
3	7520.0000	38.59	-43.10	36.43	-63.34	-13.00	50.34	256	273	Horizontal
4	9400.0000	37.35	-39.83	38.49	-59.25	-13.00	46.25	199	142	Horizontal
5	11280.0000	33.84	-37.41	39.11	-59.72	-13.00	46.72	175	130	Horizontal
6	14388	33.25	-34.96	40.09	-56.88	-13.00	43.88	148	0	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	3759	45.57	-45.75	30.18	-65.26	-13.00	52.26	248	331	Vertical
2	5640.0000	39.70	-44.98	33.17	-67.38	-13.00	54.38	175	346	Vertical
3	7520.0000	38.62	-43.10	36.43	-63.31	-13.00	50.31	153	77	Vertical
4	9400.0000	36.19	-39.83	38.49	-60.41	-13.00	47.41	216	300	Vertical
5	11280.0000	34.12	-37.41	39.11	-59.44	-13.00	46.44	199	196	Vertical
6	13701.75	34.80	-36.16	40.05	-56.57	-13.00	43.57	182	3	Vertical

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Test Band = WCDMA Band II_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813.75	50.28	-45.97	30.36	-60.59	-13.00	47.59	148	151	Horizontal
2	5722.8000	40.65	-44.83	33.47	-65.97	-13.00	52.97	254	346	Horizontal
3	7630.0000	37.86	-42.99	36.45	-63.94	-13.00	50.94	199	1	Horizontal
4	9538.0000	34.49	-40.01	38.46	-62.33	-13.00	49.33	176	151	Horizontal
5	11445.6000	32.92	-37.34	39.06	-60.62	-13.00	47.62	114	225	Horizontal
6	14434.5	32.96	-34.81	40.06	-57.06	-13.00	44.06	253	346	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	3813.75	46.27	-45.97	30.36	-64.60	-13.00	51.60	124	245	Vertical
2	5722.8000	39.84	-44.83	33.47	-66.78	-13.00	53.78	184	331	Vertical
3	7630.0000	38.46	-42.99	36.45	-63.34	-13.00	50.34	175	0	Vertical
4	9538.0000	34.38	-40.01	38.46	-62.44	-13.00	49.44	133	148	Vertical
5	11445.6000	33.37	-37.34	39.06	-60.17	-13.00	47.17	256	315	Vertical
6	13701	34.50	-36.16	40.05	-56.87	-13.00	43.87	291	356	Vertical

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Test Band = WCDMA Band IV_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3423	65.06	-46.28	29.45	-47.02	-13.00	34.02	221	226	Horizontal
2	5137.2000	42.16	-45.34	32.96	-65.48	-13.00	52.48	142	121	Horizontal
3	6849.6000	40.34	-44.14	35.90	-63.16	-13.00	50.16	136	356	Horizontal
4	8562.0000	37.90	-41.44	37.67	-61.13	-13.00	48.13	259	31	Horizontal
5	10274.4000	35.20	-39.19	38.83	-60.42	-13.00	47.42	174	8	Horizontal
6	13694.25	35.59	-36.16	40.06	-55.76	-13.00	42.76	145	77	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	3423	63.54	-46.28	29.45	-48.54	-13.00	35.54	211	243	Vertical
2	5137.2000	43.26	-45.34	32.96	-64.38	-13.00	51.38	145	243	Vertical
3	6849.6000	40.62	-44.14	35.90	-62.88	-13.00	49.88	256	8	Vertical
4	8562.0000	38.10	-41.44	37.67	-60.93	-13.00	47.93	191	78	Vertical
5	10274.4000	34.65	-39.19	38.83	-60.97	-13.00	47.97	175	60	Vertical
6	13713	35.59	-36.19	40.04	-55.82	-13.00	42.82	142	332	Vertical

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Test Band = WCDMA Band IV_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3466.5	64.33	-46.27	29.49	-47.71	-13.00	34.71	244	226	Horizontal
2	5197.8000	41.58	-45.28	32.99	-65.97	-13.00	52.97	156	136	Horizontal
3	6930.4000	39.94	-43.93	36.00	-63.25	-13.00	50.25	186	212	Horizontal
4	8663.0000	38.70	-41.56	37.85	-60.26	-13.00	47.26	145	77	Horizontal
5	10395.6000	35.26	-39.01	38.86	-60.15	-13.00	47.15	136	31	Horizontal
6	14349	35.22	-35.49	40.12	-55.42	-13.00	42.42	298	331	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	3463.5	61.64	-46.27	29.49	-50.40	-13.00	37.40	147	255	Vertical
2	5197.8000	43.71	-45.28	32.99	-63.84	-13.00	50.84	185	226	Vertical
3	6930.4000	40.09	-43.93	36.00	-63.10	-13.00	50.10	196	60	Vertical
4	8663.0000	38.19	-41.56	37.85	-60.77	-13.00	47.77	142	74	Vertical
5	10395.6000	34.92	-39.01	38.86	-60.49	-13.00	47.49	156	0	Vertical
6	13705.5	35.29	-36.17	40.05	-56.09	-13.00	43.09	136	181	Vertical

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Test Band = WCDMA Band IV_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3503.25	61.31	-46.26	29.52	-50.68	-13.00	37.68	214	243	Horizontal
2	5257.8000	42.86	-45.17	32.93	-64.63	-13.00	51.63	156	153	Horizontal
3	7010.4000	40.22	-43.62	36.11	-62.55	-13.00	49.55	192	139	Horizontal
4	8763.0000	37.57	-41.41	38.02	-61.08	-13.00	48.08	185	122	Horizontal
5	10515.6000	34.67	-38.75	38.98	-60.36	-13.00	47.36	172	272	Horizontal
6	13702.5	35.37	-36.17	40.05	-56.00	-13.00	43.00	133	347	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	3506.25	60.14	-46.25	29.53	-51.85	-13.00	38.85	154	258	Vertical
2	5257.8000	42.44	-45.17	32.93	-65.05	-13.00	52.05	123	227	Vertical
3	7010.4000	40.40	-43.62	36.11	-62.37	-13.00	49.37	256	210	Vertical
4	8763.0000	38.21	-41.41	38.02	-60.44	-13.00	47.44	199	106	Vertical
5	10515.6000	34.80	-38.75	38.98	-60.23	-13.00	47.23	145	227	Vertical
6	13703.25	35.59	-36.17	40.05	-55.79	-13.00	42.79	175	61	Vertical

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Test Band = WCDMA Band V_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2857	63.19	-48.21	25.37	-54.91	-13.00	41.91	142	133	Horizontal
2	2479.2000	48.92	-47.31	27.70	-65.94	-13.00	52.94	155	4	Horizontal
3	3305.6000	43.49	-46.67	29.55	-68.89	-13.00	55.89	133	251	Horizontal
4	4132.0000	41.30	-45.92	31.00	-68.88	-13.00	55.88	201	118	Horizontal
5	4958.4000	42.31	-45.72	32.76	-65.90	-13.00	52.90	165	39	Horizontal
6	6760.5714	41.93	-44.10	35.76	-61.67	-13.00	48.67	198	251	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	1654.2857	65.93	-48.21	25.37	-52.17	-13.00	39.17	214	268	Vertical
2	2479.2000	44.32	-47.31	27.70	-70.54	-13.00	57.54	132	163	Vertical
3	3305.6000	43.32	-46.67	29.55	-69.06	-13.00	56.06	211	148	Vertical
4	4132.0000	41.54	-45.92	31.00	-68.64	-13.00	55.64	150	111	Vertical
5	4958.4000	40.63	-45.72	32.76	-67.58	-13.00	54.58	163	71	Vertical
6	6071.4286	41.75	-44.62	34.15	-63.97	-13.00	50.97	280	1	Vertical

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Test Band = WCDMA Band V_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1674.2857	59.14	-48.19	25.38	-58.93	-13.00	45.93	122	165	Horizontal
2	2509.2000	49.44	-47.24	27.80	-65.25	-13.00	52.25	145	191	Horizontal
3	3345.6000	42.60	-46.62	29.50	-69.78	-13.00	56.78	153	270	Horizontal
4	4182.0000	40.74	-45.95	31.07	-69.40	-13.00	56.40	258	81	Horizontal
5	5018.4000	39.89	-45.73	32.89	-68.21	-13.00	55.21	174	218	Horizontal
6	5961.7143	42.06	-44.64	34.06	-63.78	-13.00	50.78	196	16	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	1674.2857	60.18	-48.19	25.38	-57.89	-13.00	44.89	188	272	Vertical
2	2509.2000	46.45	-47.24	27.80	-68.24	-13.00	55.24	164	60	Vertical
3	3345.6000	42.59	-46.62	29.50	-69.79	-13.00	56.79	125	145	Vertical
4	4182.0000	41.08	-45.95	31.07	-69.06	-13.00	56.06	195	60	Vertical
5	5018.4000	39.89	-45.73	32.89	-68.21	-13.00	55.21	146	236	Vertical
6	5955.4286	41.74	-44.67	34.05	-64.15	-13.00	51.15	173	251	Vertical

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Test Band = WCDMA Band V_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1691.4286	53.98	-48.17	25.39	-64.06	-13.00	51.06	221	356	Horizontal
2	2539.8000	54.93	-47.13	27.90	-59.56	-13.00	46.56	148	171	Horizontal
3	3386.4000	42.34	-46.56	29.45	-70.03	-13.00	57.03	174	360	Horizontal
4	4233.0000	40.85	-45.90	31.17	-69.14	-13.00	56.14	153	79	Horizontal
5	5079.6000	40.67	-45.47	32.92	-67.13	-13.00	54.13	216	118	Horizontal
6	6117.7143	42.30	-44.73	34.17	-63.51	-13.00	50.51	165	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	1691.4286	54.32	-48.17	25.39	-63.72	-13.00	50.72	248	321	Vertical
2	2539.8000	47.56	-47.13	27.90	-66.93	-13.00	53.93	174	56	Vertical
3	3386.4000	41.96	-46.56	29.45	-70.41	-13.00	57.41	152	214	Vertical
4	4233.0000	41.28	-45.90	31.17	-68.71	-13.00	55.71	126	83	Vertical
5	5079.6000	40.76	-45.47	32.92	-67.04	-13.00	54.04	158	138	Vertical
6	5956.5714	41.91	-44.66	34.05	-63.97	-13.00	50.97	190	18	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	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	VL	NT	0.24	0.000128	PASS
BandII	9400	VN	NT	1.10	0.000585	PASS
BandII	9400	VH	NT	0.37	0.000197	PASS
BandIV	1413	VL	NT	-0.34	-0.000196	PASS
BandIV	1413	VN	NT	-0.14	-0.000081	PASS
BandIV	1413	VH	NT	-0.26	-0.000150	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VL	NT	0.58	0.000693	±2.5	PASS
BandV	4182	VN	NT	0.55	0.000658	±2.5	PASS
BandV	4182	VH	NT	0.49	0.000586	±2.5	PASS

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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	-0.06	-0.000032	PASS
BandII	9400	NV	-20	0.16	0.000085	PASS
BandII	9400	NV	0	1.31	0.000697	PASS
BandII	9400	NV	10	0.03	0.000016	PASS
BandII	9400	NV	20	0.21	0.000112	PASS
BandII	9400	NV	30	0.76	0.000404	PASS
BandII	9400	NV	40	-0.64	-0.000340	PASS
BandII	9400	NV	50	1.25	0.000665	PASS
BandIV	1413	NV	-30	-0.60	-0.000346	PASS
BandIV	1413	NV	-20	-1.45	-0.000837	PASS
BandIV	1413	NV	0	-1.04	-0.000600	PASS
BandIV	1413	NV	10	-1.30	-0.000750	PASS
BandIV	1413	NV	20	-0.74	-0.000427	PASS
BandIV	1413	NV	30	-0.73	-0.000421	PASS
BandIV	1413	NV	40	-0.73	-0.000421	PASS
BandIV	1413	NV	50	-0.42	-0.000242	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	0.63	0.000753	±2.5	PASS
BandV	4182	NV	-20	0.65	0.000777	±2.5	PASS
BandV	4182	NV	0	0.42	0.000502	±2.5	PASS
BandV	4182	NV	10	0.20	0.000239	±2.5	PASS
BandV	4182	NV	20	0.34	0.000407	±2.5	PASS
BandV	4182	NV	30	0.58	0.000693	±2.5	PASS
BandV	4182	NV	40	0.32	0.000383	±2.5	PASS
BandV	4182	NV	50	0.50	0.000598	±2.5	PASS

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