



# Appendix B.2

## WCDMA Band II&IV&V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant31:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BandII	9262	23.28	22.08	33.01	PASS
BandII	9400	23.35	22.15	33.01	PASS
BandII	9538	23.27	22.07	33.01	PASS
BandIV	1312	23.52	21.02	30.00	PASS
BandIV	1413	23.57	21.07	30.00	PASS
BandIV	1513	23.47	20.97	30.00	PASS

#### Ant13:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BandV	4132	24.06	15.11	38.45	PASS
BandV	4182	24.01	15.06	38.45	PASS
BandV	4233	24.07	15.12	38.45	PASS



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## Peak-to-Average Ratio

### Test Result

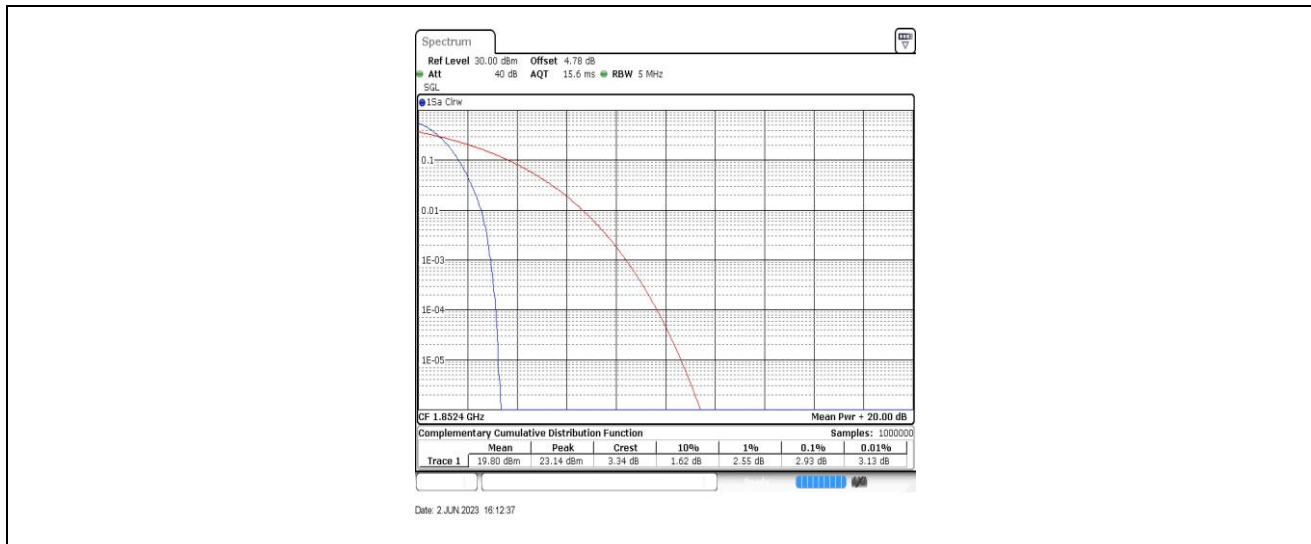
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
BandII	9262	2.93	13	PASS
BandII	9400	3.01	13	PASS
BandII	9538	2.84	13	PASS
BandIV	1312	2.87	13	PASS
BandIV	1413	2.78	13	PASS
BandIV	1513	2.61	13	PASS
BandV	4132	2.93	13	PASS
BandV	4182	2.78	13	PASS
BandV	4233	2.93	13	PASS



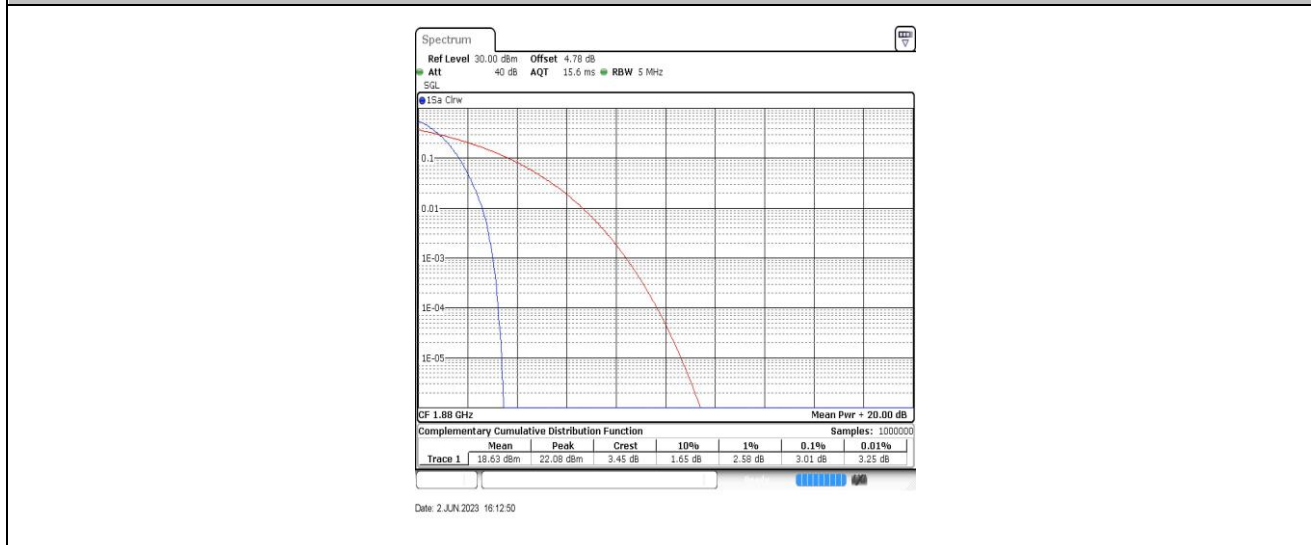
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### Test Graphs



BandII-9262



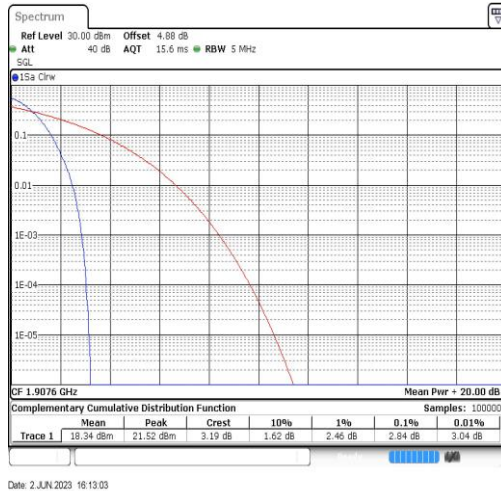
BandII-9400



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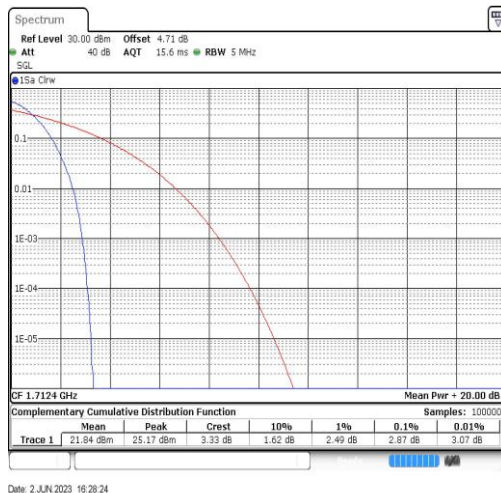
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Date: 2 JUN 2023 16:13:03

BandII-9538



Date: 2 JUN 2023 16:28:24

BandIV-1312

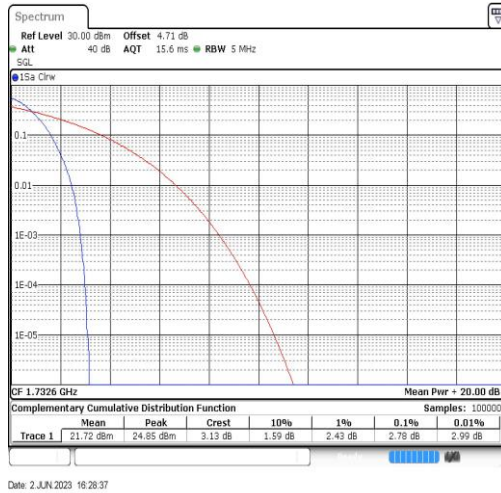


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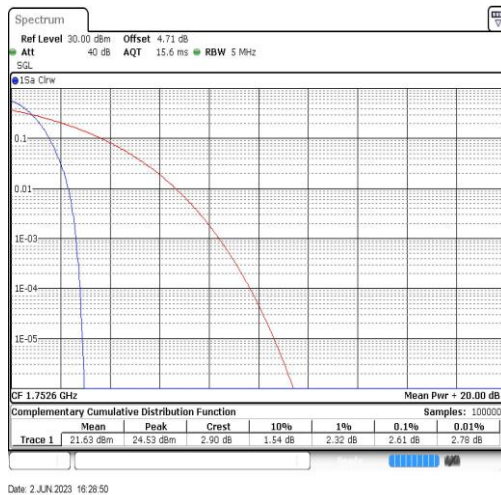
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Date: 2.JUN.2023 16:28:37

### BandIV-1413



Date: 2.JUN.2023 16:28:50

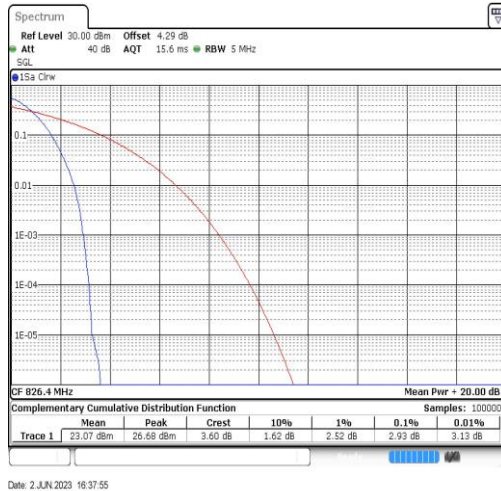
### BandIV-1513



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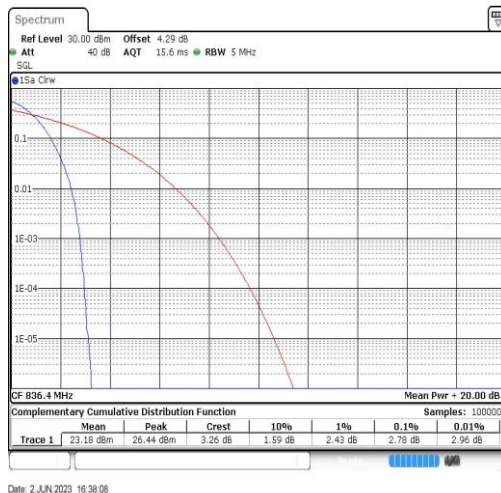
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Date: 2 JUN 2023 16:37:55

BandV-4132



Date: 2 JUN 2023 16:38:08

BandV-4182



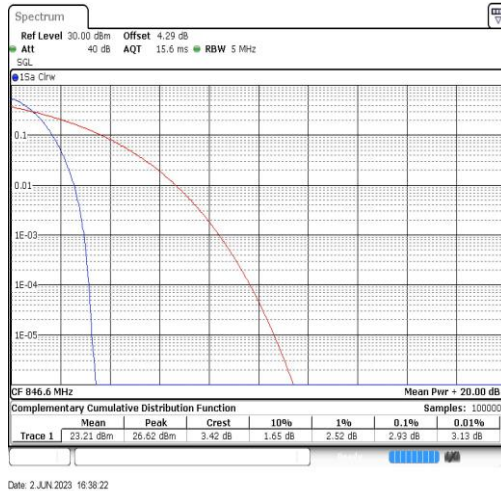
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Date: 2 JUN 2023 16:38:22

BandV-4233



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## Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
BandII	9400	PASS	PASS
BandIV	1413	PASS	PASS
BandV	4182	PASS	PASS



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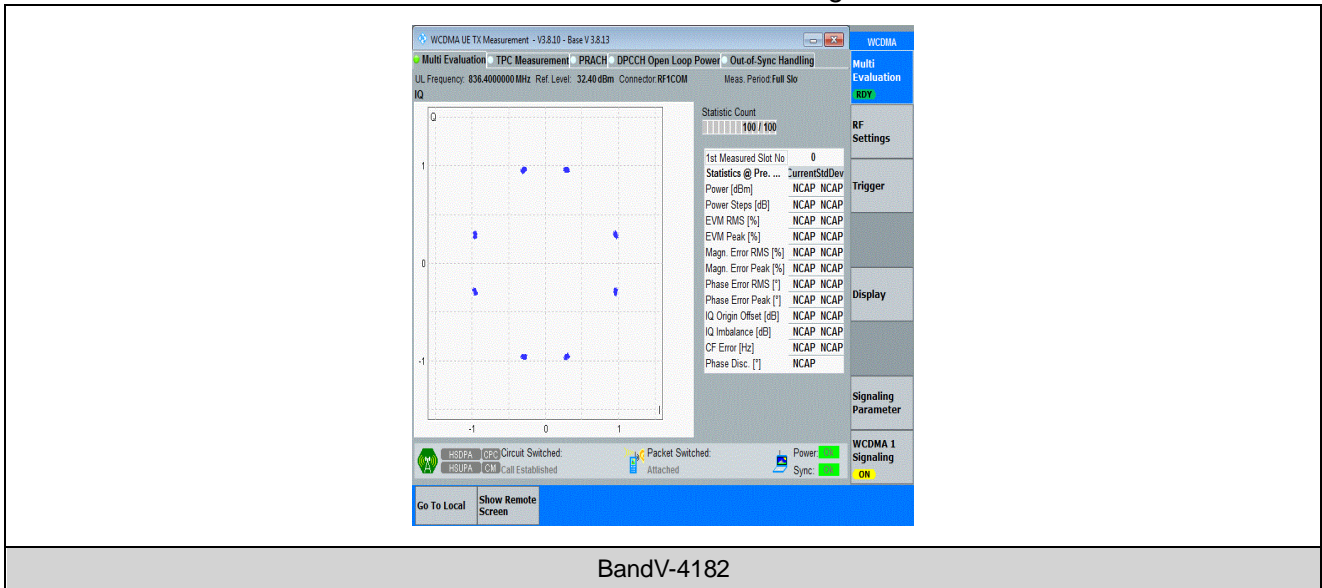
**Test Graphs**



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

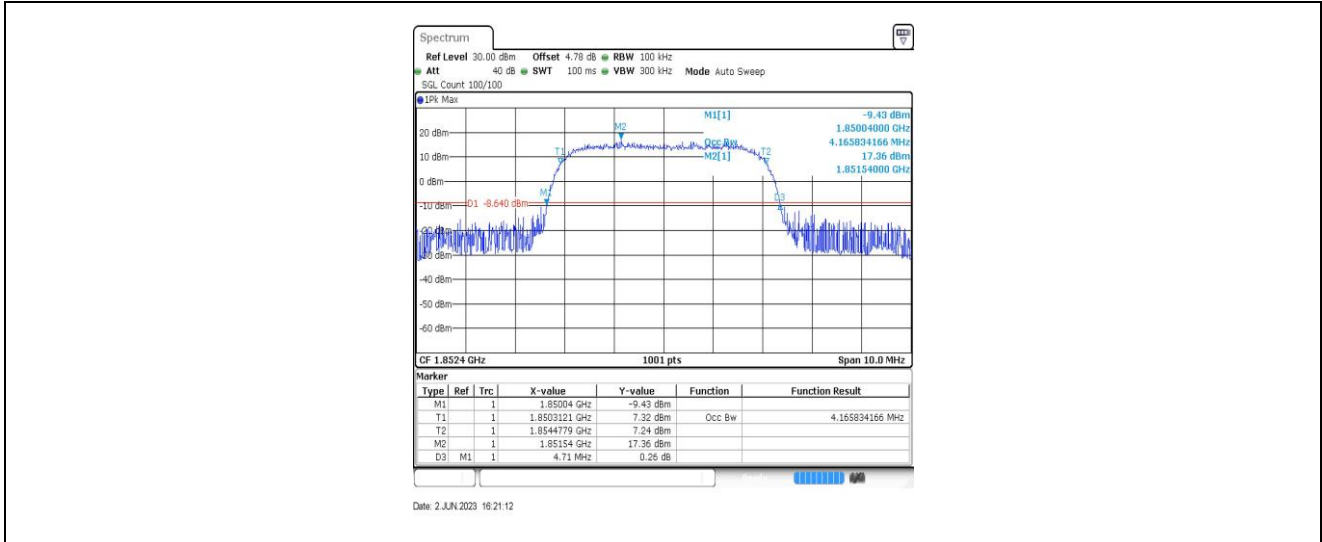
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
BandII	9262	4.166	4.71	---	PASS
BandII	9400	4.166	4.72	---	PASS
BandII	9538	4.176	4.74	---	PASS
BandIV	1312	4.166	4.73	---	PASS
BandIV	1413	4.176	4.73	---	PASS
BandIV	1513	4.166	4.75	---	PASS
BandV	4132	4.166	4.72	---	PASS
BandV	4182	4.166	4.73	---	PASS
BandV	4233	4.176	4.72	---	PASS



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**Test Graphs**



BandII-9262

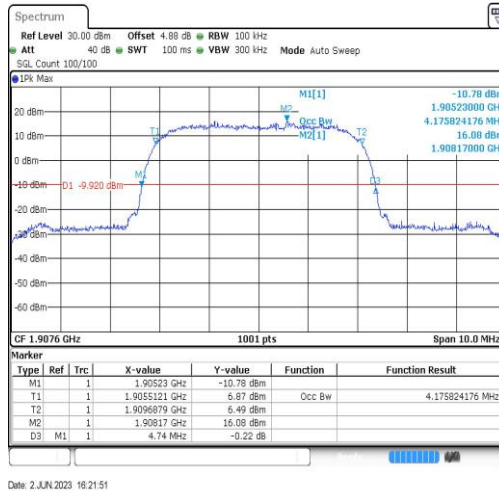


BandII-9400

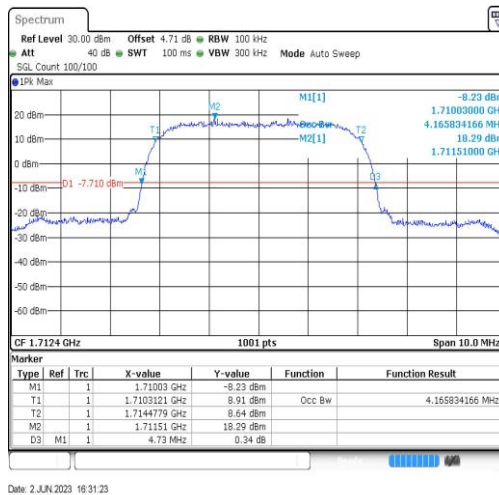


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BandII-9538



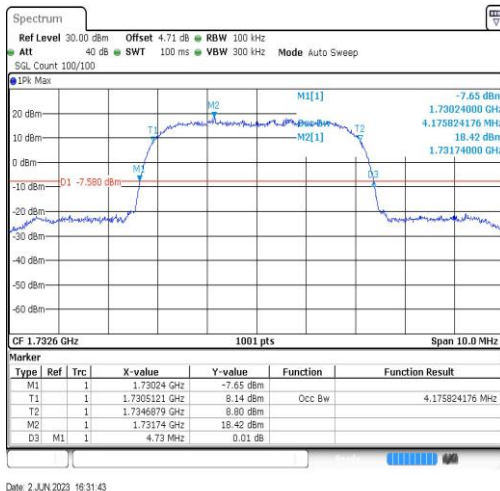
BandIV-1312



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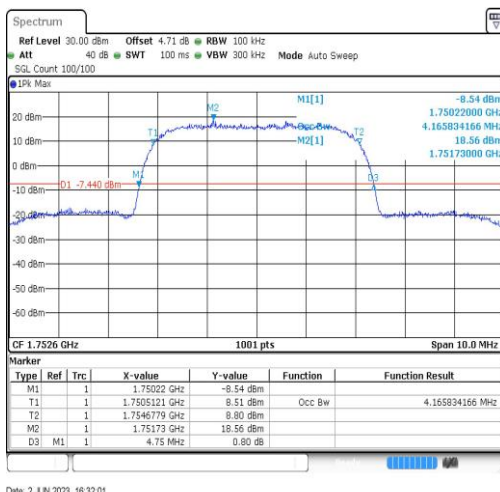
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Date: 2.JUN.2023 16:31:43

### BandIV-1413



Date: 2.JUN.2023 16:32:01

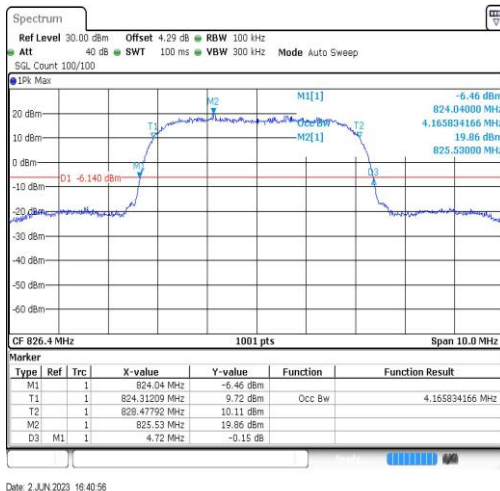
### BandIV-1513



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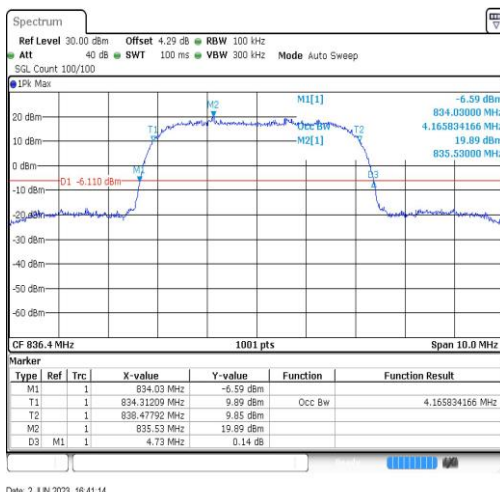
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Date: 2.JUN.2023 16:40:56

### BandV-4132



Date: 2.JUN.2023 16:41:14

### BandV-4182



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BandV-4233

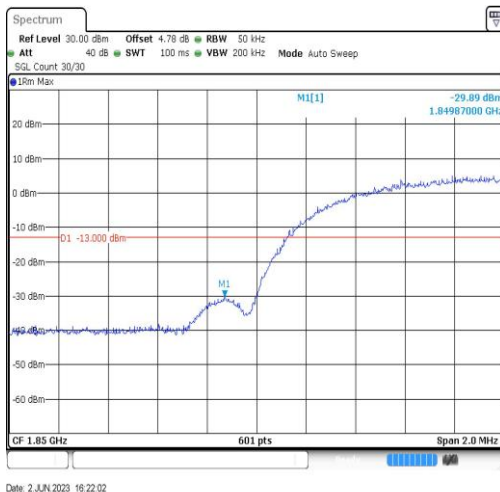


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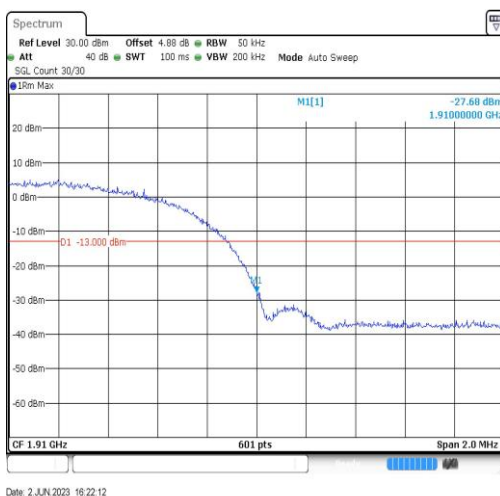
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### Band Edge

### Test Graphs



BandII-9262-1849.87



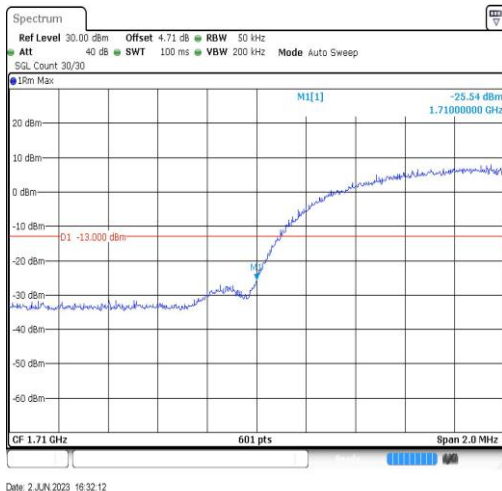
BandII-9538-1910.00



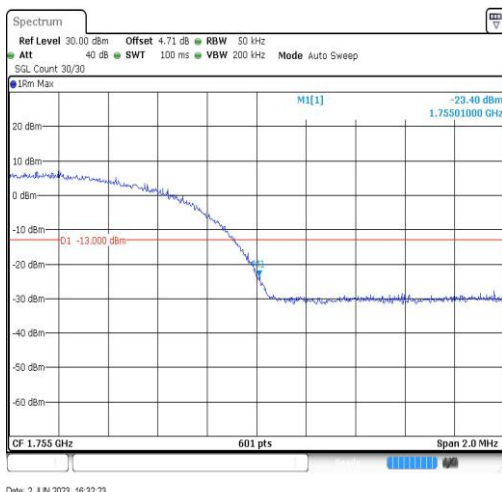
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BandIV-1312-1710.00

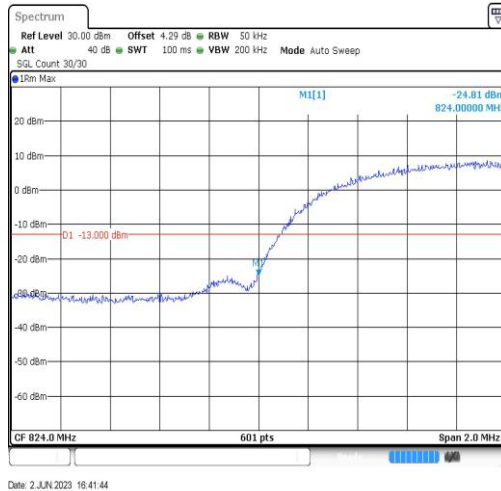


BandIV-1513-1755.01

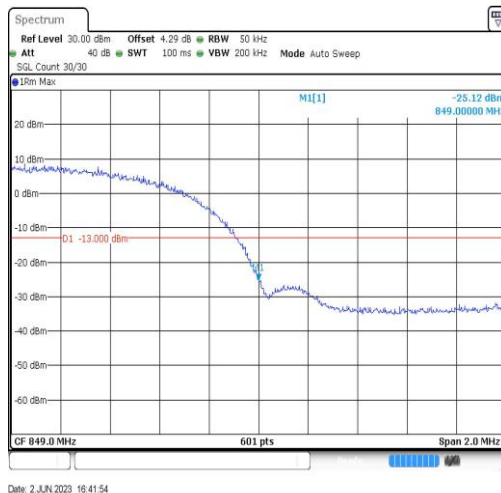


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BandV-4132-824.00

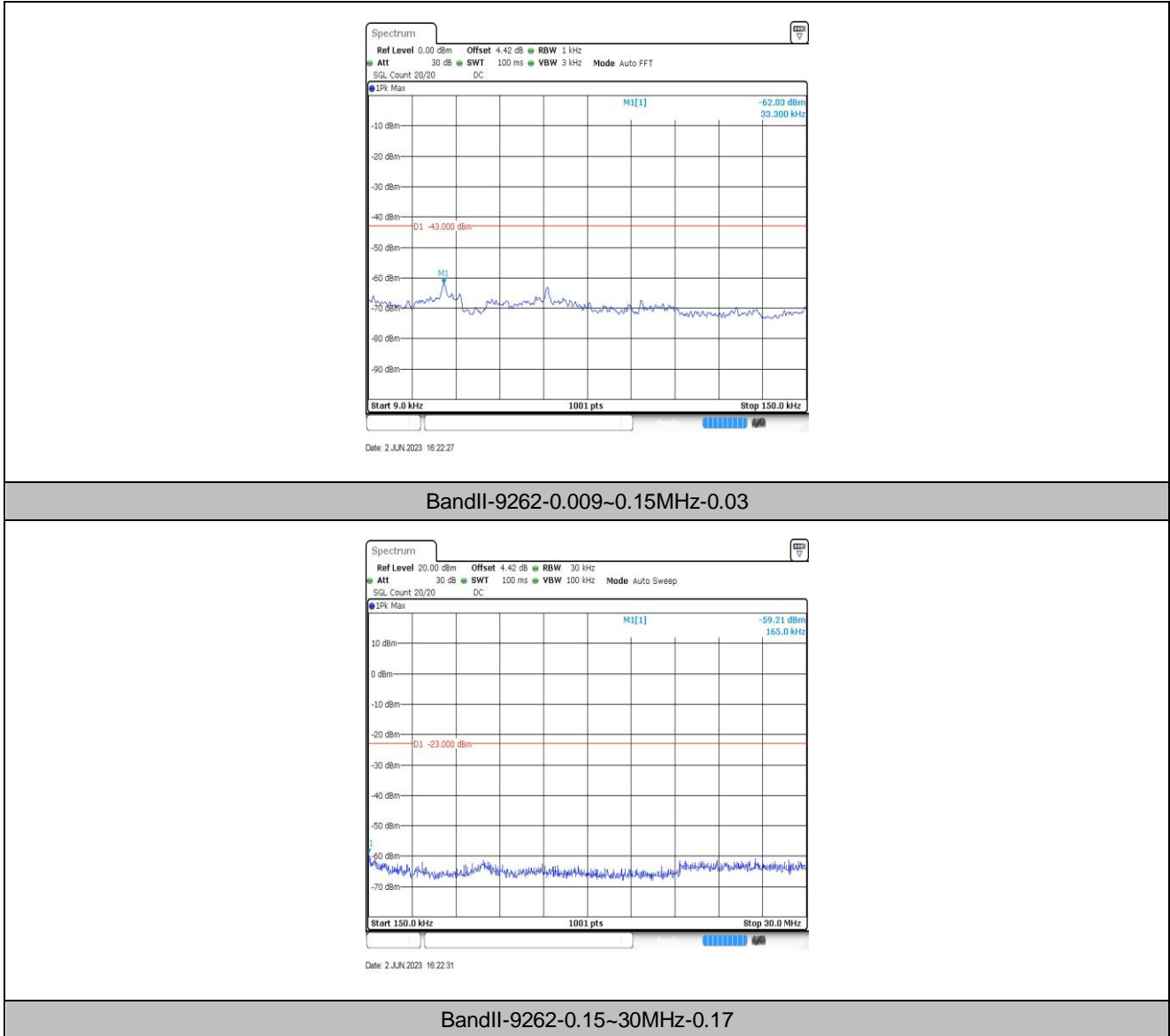


BandV-4233-849.00



## Conducted Spurious Emission

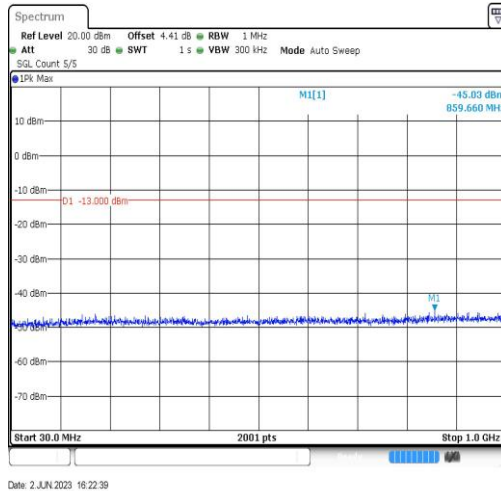
### Test Graphs



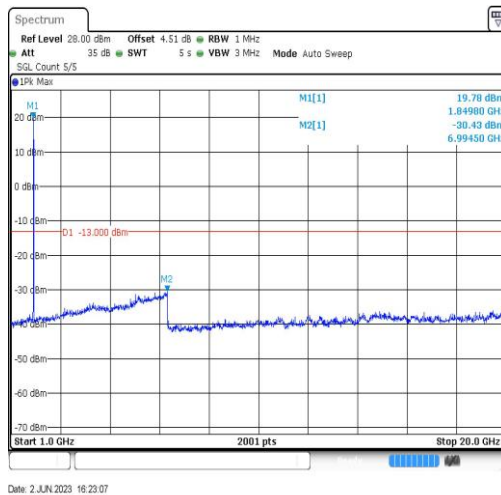
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BandII-9262-30~1000MHz-859.66



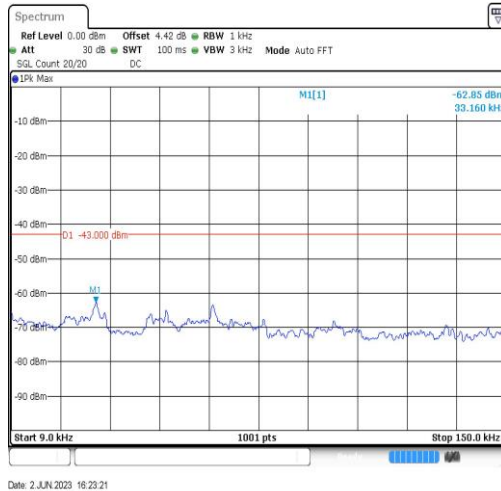
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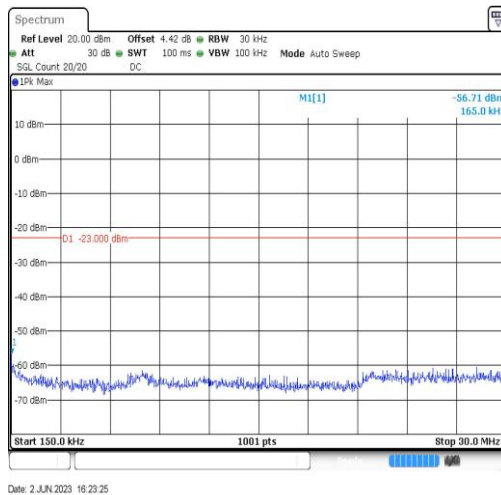
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BandII-9400-0.009~0.15MHz-0.03



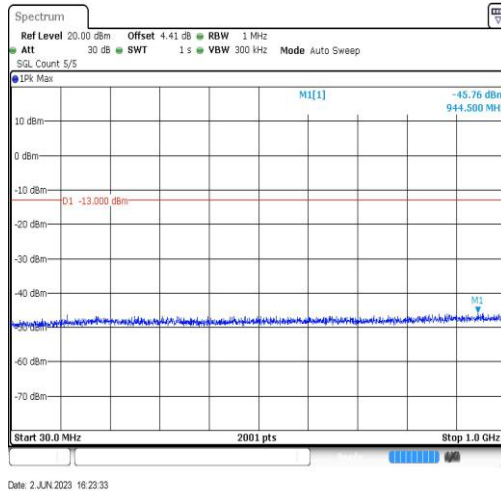
BandII-9400-0.15~30MHz-0.17



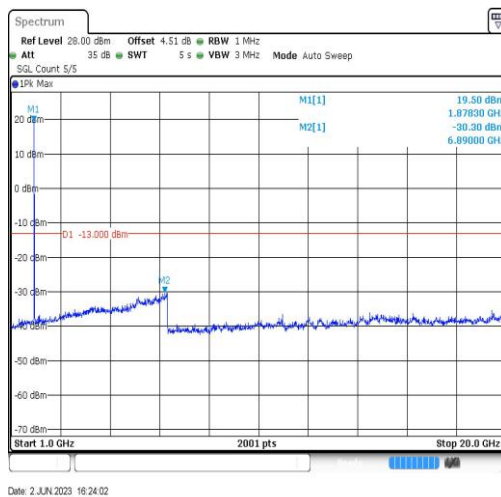
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BandII-9400-30~1000MHz-944.5



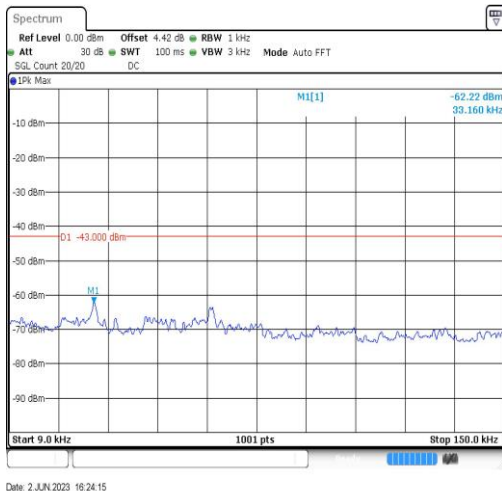
BandII-9400-1000~20000MHz-6890



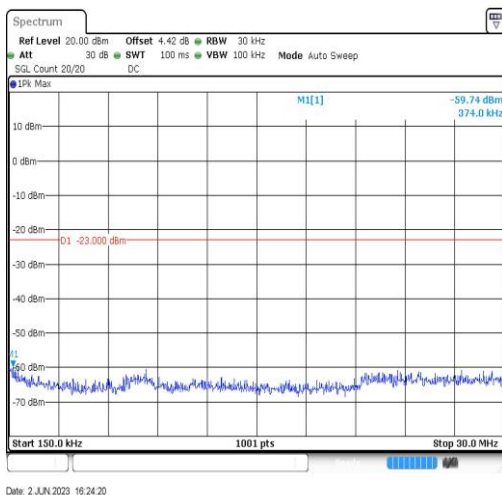
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BandII-9538-0.009~0.15MHz-0.03



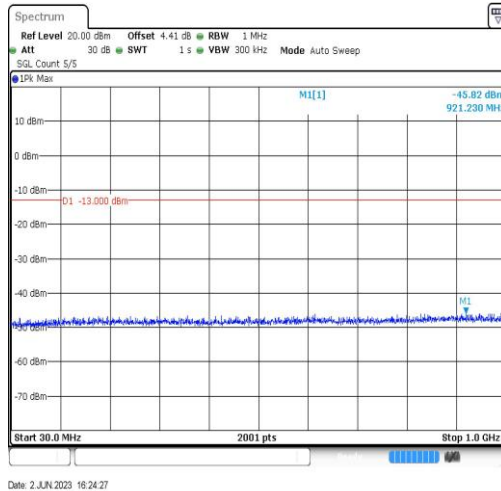
BandII-9538-0.15~30MHz-0.37



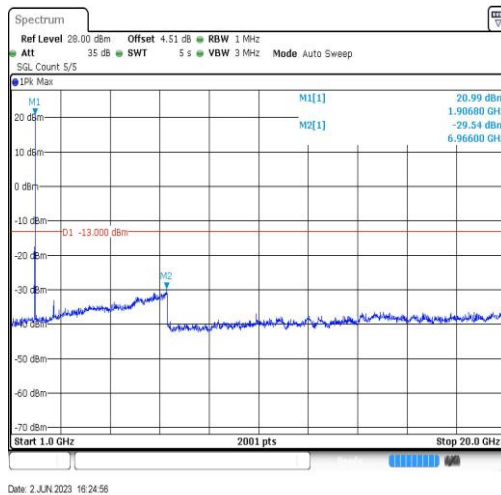
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BandII-9538-30~1000MHz-921.23



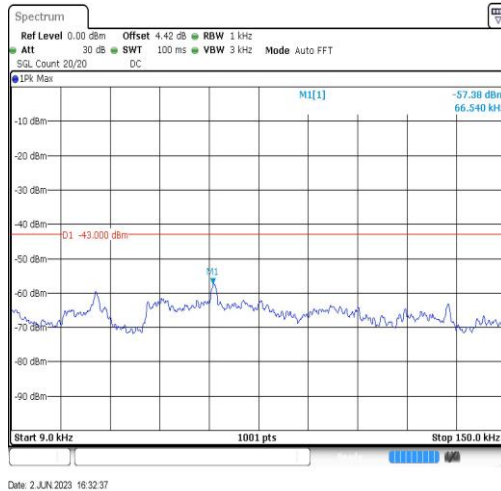
BandII-9538-1000~20000MHz-6966



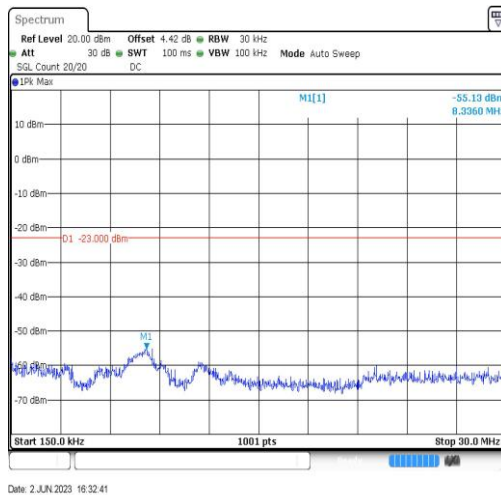
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BandIV-1312-0.009~0.15MHz-0.07



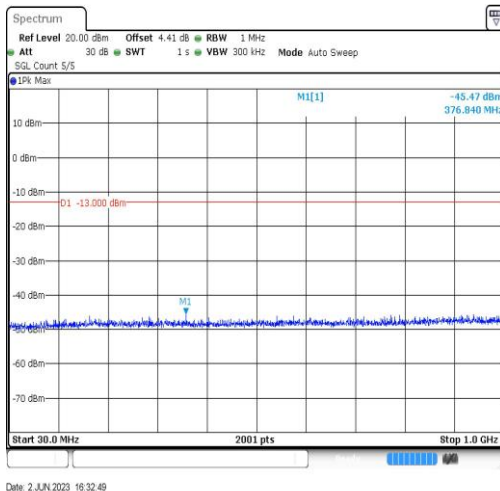
BandIV-1312-0.15~30MHz-8.34



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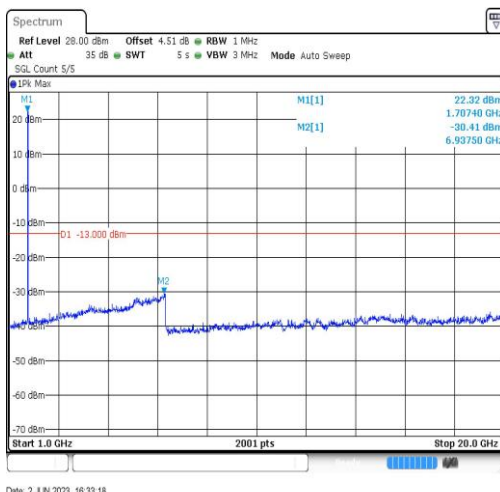
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Date: 2 JUN 2023 16:32:49

BandIV-1312-30~1000MHz-376.84



Date: 2 JUN 2023 16:33:18

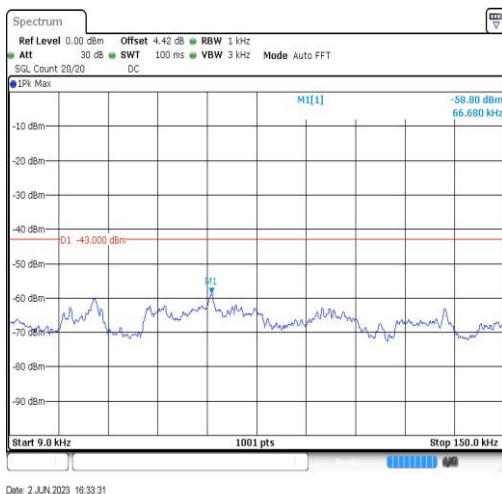
BandIV-1312-1000~20000MHz-6937.5



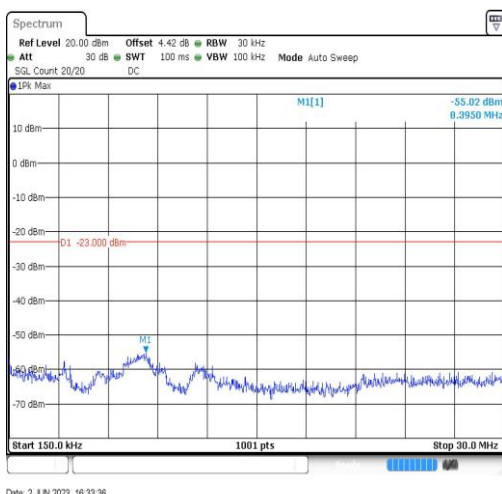
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BandIV-1413-0.009~0.15MHz-0.07



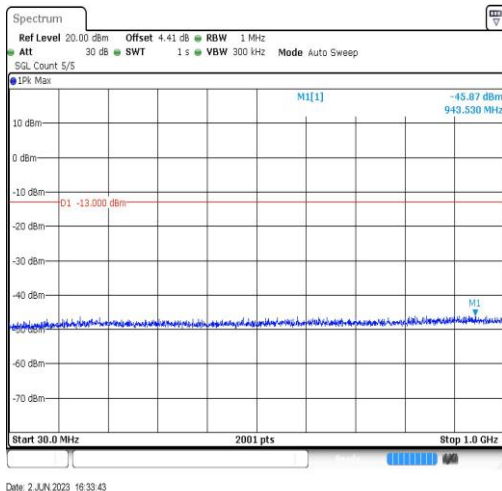
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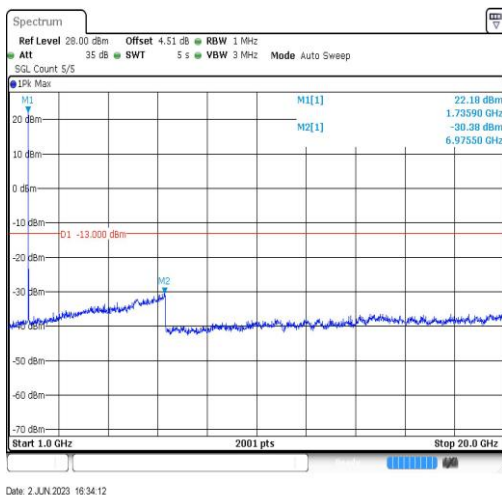
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BandIV-1413-30~1000MHz-943.53



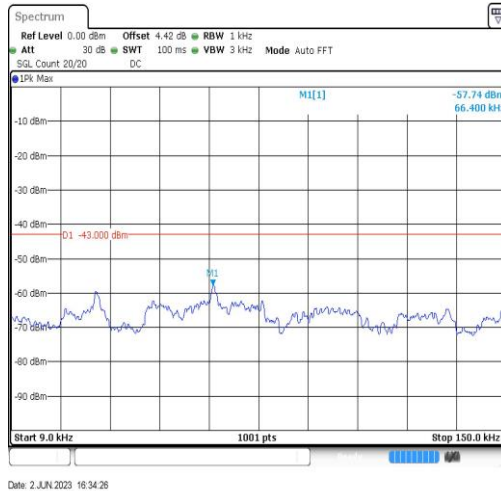
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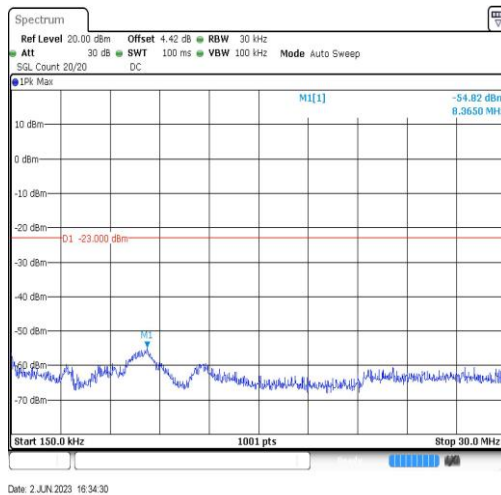
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BandIV-1513-0.009~0.15MHz-0.07



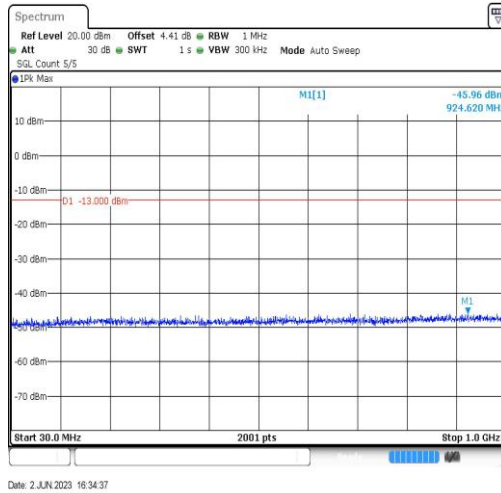
BandIV-1513-0.15~30MHz-8.37



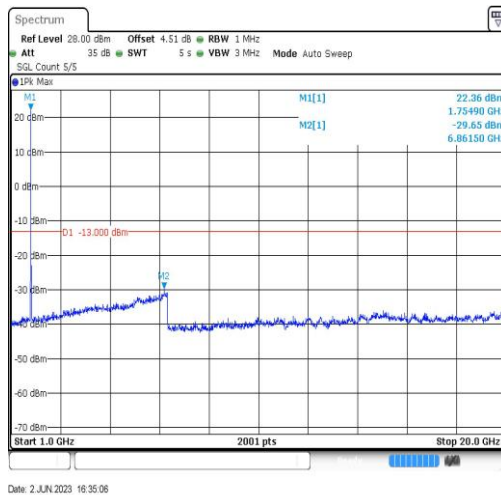
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BandIV-1513-30~1000MHz-924.62



BandIV-1513-1000~20000MHz-6861.5

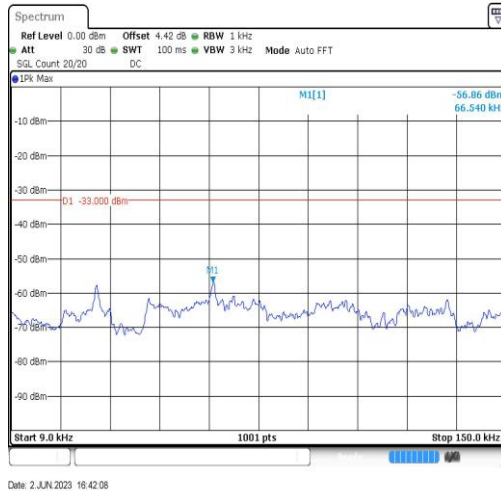


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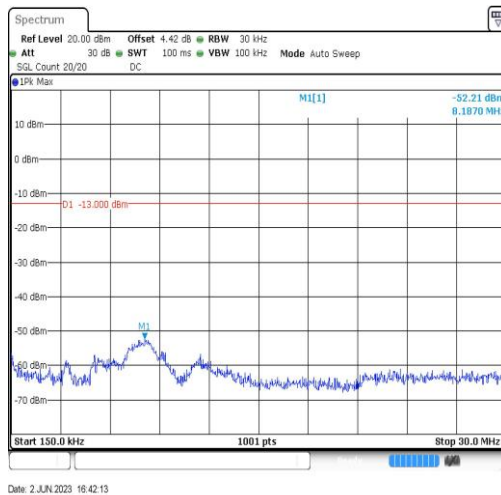
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BandV-4132-0.009~0.15MHz-0.07



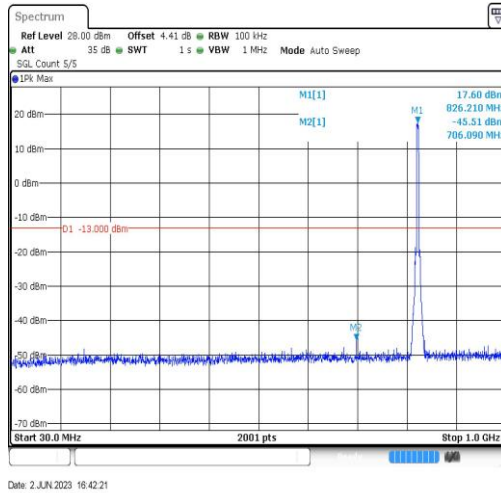
BandV-4132-0.15~30MHz-8.19



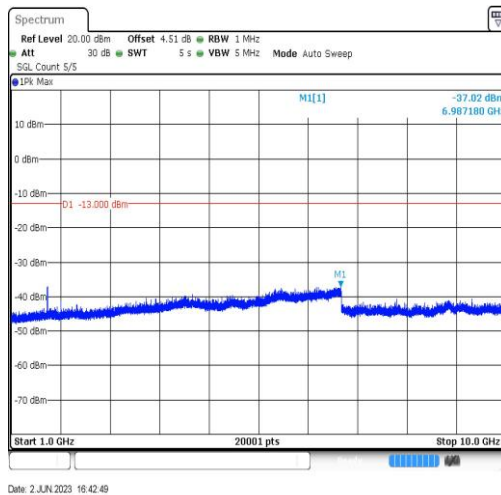
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BandV-4132-30~1000MHz-706.09



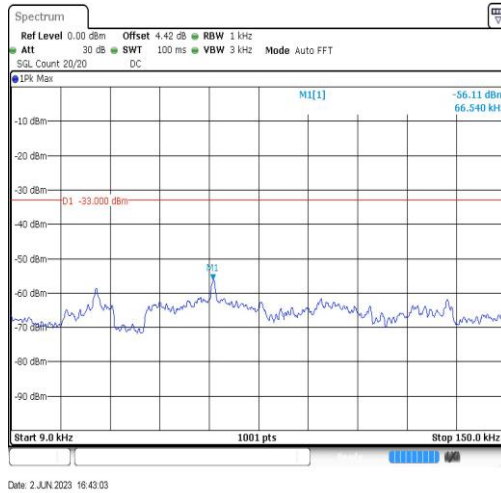
BandV-4132-1000~10000MHz-6987.18



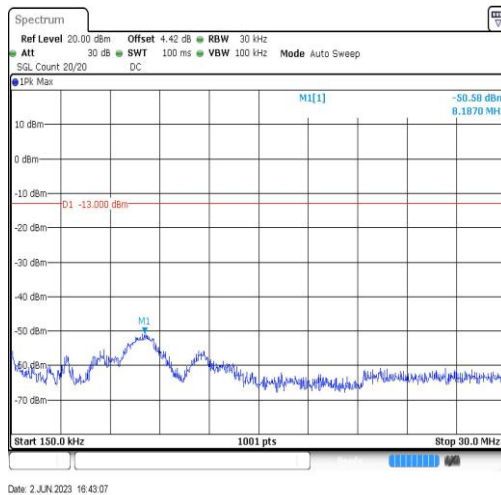
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BandV-4182-0.009~0.15MHz-0.07



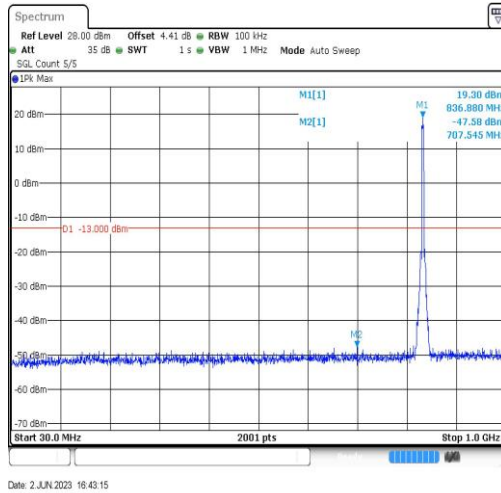
BandV-4182-0.15~30MHz-8.19



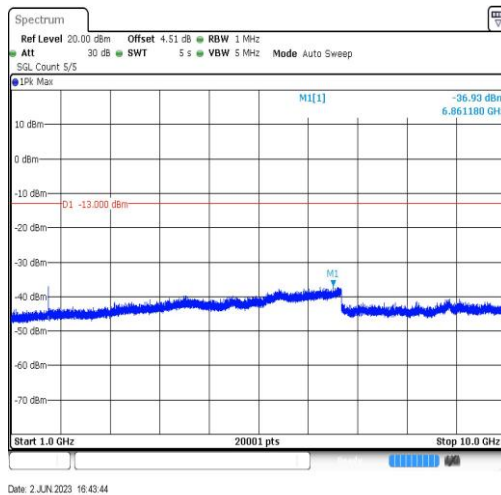
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BandV-4182-30~1000MHz-707.55



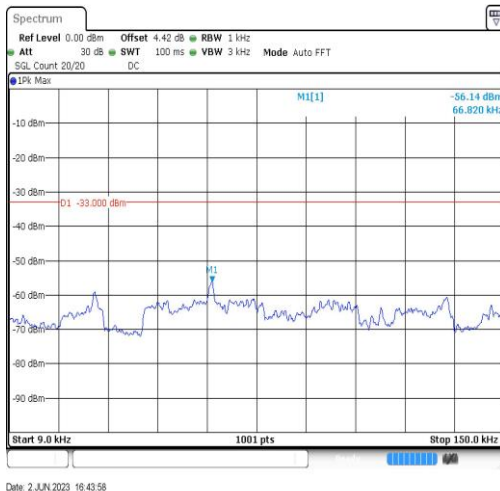
BandV-4182-1000~10000MHz-6861.18



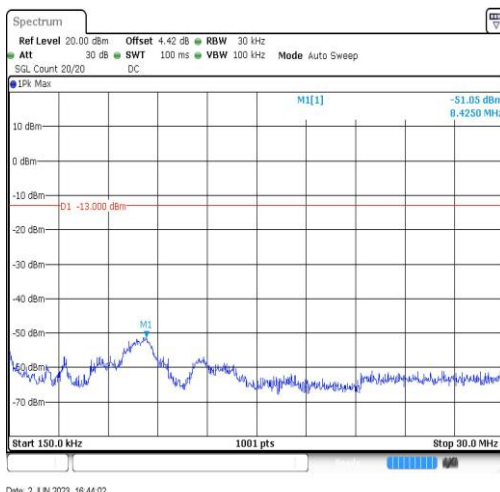
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BandV-4233-0.009~0.15MHz-0.07



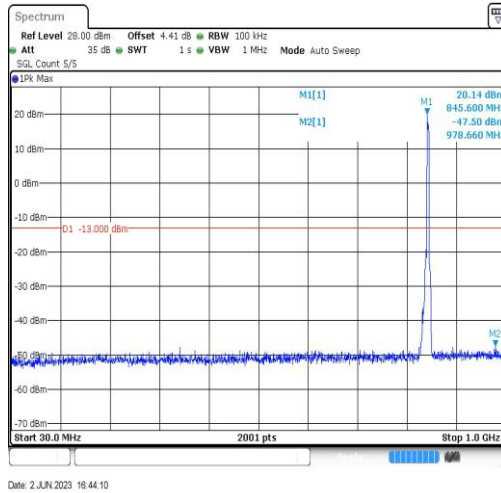
BandV-4233-0.15~30MHz-8.43



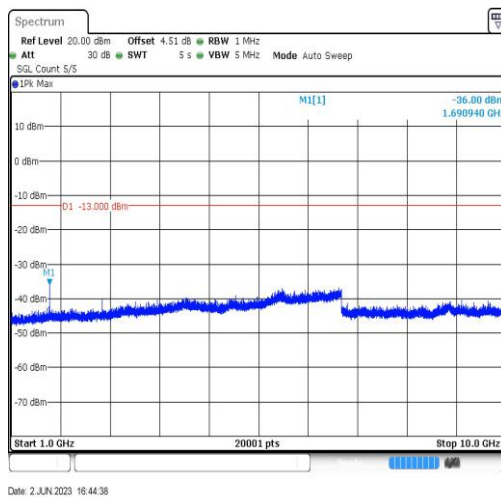
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BandV-4233-30~1000MHz-978.66



BandV-4233-1000~10000MHz-1690.94



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## Field Strength of Spurious Radiation

Test Band = WCDMA\_II\_ANT 31\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1501.5627	35.51	-18.83	25.61	-52.97	-13.00	39.97	222	316	Horizontal
2	2800.9751	37.79	-16.90	28.61	-45.76	-13.00	32.76	261	31	Horizontal
3	5415.8708	49.00	-45.82	33.20	-58.88	-13.00	45.88	245	265	Horizontal
4	7925.4963	47.72	-43.58	37.45	-53.67	-13.00	40.67	351	132	Horizontal
5	12307.9654	45.06	-37.93	39.69	-48.44	-13.00	35.44	332	270	Horizontal
6	13392.5196	44.80	-39.04	40.30	-49.20	-13.00	36.20	158	132	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1445.8057	35.57	-19.15	25.71	-53.13	-13.00	40.13	352	332	Vertical
2	2776.7221	38.23	-17.05	28.65	-45.43	-13.00	32.43	268	8	Vertical
3	5126.3563	49.51	-47.12	33.55	-59.32	-13.00	46.32	333	49	Vertical
4	7972.7486	47.64	-43.47	37.45	-53.64	-13.00	40.64	232	358	Vertical
5	11216.6608	46.70	-39.34	39.68	-48.22	-13.00	35.22	129	49	Vertical
6	14701.3351	45.48	-40.15	40.20	-49.73	-13.00	36.73	364	259	Vertical



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**Test Band = WCDMA\_II\_ANT 31\_TM1**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1361.2952	35.34	-19.37	25.88	-53.41	-13.00	40.41	162	28	Horizontal
2	2777.9722	38.18	-17.04	28.64	-45.48	-13.00	32.48	152	86	Horizontal
3	5496.8748	49.78	-45.47	33.12	-57.83	-13.00	44.83	393	160	Horizontal
4	8558.5279	46.65	-42.34	38.95	-52.00	-13.00	39.00	257	54	Horizontal
5	11165.6583	46.33	-39.20	39.60	-48.53	-13.00	35.53	263	290	Horizontal
6	15027.6014	44.30	-38.98	39.87	-50.07	-13.00	37.07	246	247	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1350.0438	35.40	-19.39	25.90	-53.35	-13.00	40.35	359	346	Vertical
2	2625.2032	38.13	-17.70	28.35	-46.48	-13.00	33.48	144	63	Vertical
3	4391.3196	51.21	-48.51	32.15	-60.41	-13.00	47.41	308	169	Vertical
4	7986.2493	48.13	-43.42	37.43	-53.12	-13.00	40.12	306	265	Vertical
5	11772.4386	45.58	-38.71	39.79	-48.60	-13.00	35.60	120	315	Vertical
6	13360.268	45.46	-39.32	40.30	-48.82	-13.00	35.82	243	115	Vertical



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**Test Band = WCDMA\_II\_ANT 31\_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1228.0285	35.79	-19.65	25.66	-53.46	-13.00	40.46	162	320	Horizontal
2	2783.4729	37.83	-17.01	28.63	-45.81	-13.00	32.81	100	66	Horizontal
3	4871.3436	50.11	-47.59	32.93	-59.81	-13.00	46.81	160	354	Horizontal
4	7890.2445	47.99	-43.52	37.34	-53.45	-13.00	40.45	355	242	Horizontal
5	11238.4119	46.19	-39.43	39.66	-48.84	-13.00	35.84	363	69	Horizontal
6	13348.2674	45.27	-39.40	40.30	-49.09	-13.00	36.09	110	252	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1508.3135	35.56	-18.89	25.65	-52.94	-13.00	39.94	222	160	Vertical
2	2795.7245	38.00	-16.92	28.61	-45.57	-13.00	32.57	308	8	Vertical
3	5088.8544	50.05	-47.28	33.48	-59.01	-13.00	46.01	163	311	Vertical
4	8549.5275	46.19	-42.26	39.09	-52.24	-13.00	39.24	192	280	Vertical
5	11794.9397	45.47	-38.74	39.88	-48.65	-13.00	35.65	353	275	Vertical
6	14555.8278	43.94	-39.27	40.54	-50.05	-13.00	37.05	226	112	Vertical



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**Test Band = WCDMA\_IV\_ANT 31\_TM1**  
**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1431.0539	35.41	-19.20	25.74	-53.31	-13.00	40.31	127	28	Horizontal
2	2770.7213	37.99	-17.09	28.66	-45.70	-13.00	32.70	162	282	Horizontal
3	3973.5487	51.47	-49.08	30.99	-61.88	-13.00	48.88	392	315	Horizontal
4	6875.4438	49.40	-45.01	36.15	-54.72	-13.00	41.72	327	0	Horizontal
5	8973.2987	47.23	-41.88	38.64	-51.27	-13.00	38.27	245	270	Horizontal
6	13016.7508	45.31	-38.99	40.12	-48.82	-13.00	35.82	268	358	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1351.5439	35.23	-19.39	25.90	-53.52	-13.00	40.52	333	85	Vertical
2	2546.1933	37.92	-17.66	28.28	-46.72	-13.00	33.72	328	27	Vertical
3	4377.8189	51.52	-48.58	32.07	-60.25	-13.00	47.25	390	344	Vertical
4	7501.7251	48.15	-43.20	36.61	-53.70	-13.00	40.70	144	226	Vertical
5	8545.7773	46.20	-42.31	39.00	-52.37	-13.00	39.37	255	30	Vertical
6	12304.9652	44.91	-37.90	39.70	-48.55	-13.00	35.55	237	94	Vertical



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**Test Band = WCDMA\_IV\_ANT 31\_TM1**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1362.2953	35.21	-19.37	25.88	-53.54	-13.00	40.54	185	8	Horizontal
2	2760.22	38.04	-17.17	28.68	-45.71	-13.00	32.71	240	172	Horizontal
3	4842.8421	50.22	-47.64	32.74	-59.94	-13.00	46.94	285	324	Horizontal
4	7478.4739	48.52	-43.33	36.64	-53.43	-13.00	40.43	356	108	Horizontal
5	9004.0502	47.36	-41.67	38.79	-50.78	-13.00	37.78	119	54	Horizontal
6	11795.6898	45.41	-38.74	39.88	-48.71	-13.00	35.71	244	197	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1368.046	35.21	-19.36	25.86	-53.55	-13.00	40.55	228	342	Vertical
2	2663.4579	38.55	-17.56	28.35	-45.92	-13.00	32.92	368	109	Vertical
3	4391.3196	51.35	-48.51	32.15	-60.27	-13.00	47.27	292	94	Vertical
4	6791.4396	48.35	-44.80	36.28	-55.43	-13.00	42.43	186	207	Vertical
5	9584.5792	46.77	-41.26	39.17	-50.58	-13.00	37.58	354	45	Vertical
6	13373.7687	45.45	-39.20	40.30	-48.71	-13.00	35.71	291	261	Vertical



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**Test Band = WCDMA\_IV\_ANT 31\_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1358.2948	35.25	-19.38	25.88	-53.51	-13.00	40.51	166	228	Horizontal
2	2626.9534	38.13	-17.69	28.35	-46.47	-13.00	33.47	173	250	Horizontal
3	4467.8234	50.96	-48.14	31.86	-60.58	-13.00	47.58	194	325	Horizontal
4	7490.4745	48.26	-43.24	36.62	-53.62	-13.00	40.62	249	163	Horizontal
5	9007.0504	46.88	-41.68	38.79	-51.27	-13.00	38.27	357	50	Horizontal
6	13377.5189	45.07	-39.17	40.30	-49.06	-13.00	36.06	299	178	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1366.7958	35.20	-19.37	25.87	-53.56	-13.00	40.56	304	273	Vertical
2	2664.7081	38.39	-17.56	28.36	-46.07	-13.00	33.07	185	2	Vertical
3	5683.6342	49.18	-44.89	33.43	-57.54	-13.00	44.54	243	56	Vertical
4	7472.4736	48.27	-43.37	36.66	-53.70	-13.00	40.70	220	300	Vertical
5	11212.1606	46.35	-39.33	39.69	-48.55	-13.00	35.55	352	158	Vertical
6	14044.3022	44.64	-39.84	40.59	-49.87	-13.00	36.87	302	251	Vertical



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**Test Band = WCDMA\_V\_ANT 31\_TM1**  
**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1189.4595	55.15	-53.46	25.66	-67.91	-13.00	54.91	222	182	Horizontal
2	1650.7325	55.80	-52.87	25.90	-66.43	-13.00	53.43	239	63	Horizontal
3	2740.687	53.36	-50.66	28.66	-63.90	-13.00	50.90	302	162	Horizontal
4	3833.7917	51.61	-48.18	30.43	-61.40	-13.00	48.40	273	237	Horizontal
5	5531.7266	49.86	-43.35	33.16	-55.59	-13.00	42.59	293	182	Horizontal
6	8538.3269	47.44	-41.52	38.82	-50.52	-13.00	37.52	303	83	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1166.9583	54.50	-53.41	25.80	-68.37	-13.00	55.37	107	340	Vertical
2	2039.102	54.25	-52.23	27.03	-66.21	-13.00	53.21	250	276	Vertical
3	3270.8135	52.15	-49.82	30.64	-62.29	-13.00	49.29	261	41	Vertical
4	4393.1697	51.75	-46.71	32.16	-58.06	-13.00	45.06	298	177	Vertical
5	6657.2329	49.16	-44.03	36.06	-54.07	-13.00	41.07	386	256	Vertical
6	9570.6785	46.02	-39.65	39.14	-49.75	-13.00	36.75	249	251	Vertical



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**Test Band = WCDMA\_V\_ANT 31\_TM1**  
**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1142.6571	54.67	-53.47	25.89	-68.17	-13.00	55.17	384	74	Horizontal
2	1674.1337	55.17	-52.76	25.85	-67.00	-13.00	54.00	341	338	Horizontal
3	2846.4423	52.94	-50.13	28.88	-63.57	-13.00	50.57	359	74	Horizontal
4	3965.6483	51.39	-47.90	30.96	-60.81	-13.00	47.81	368	179	Horizontal
5	5515.0758	49.79	-43.25	33.13	-55.59	-13.00	42.59	251	189	Horizontal
6	8558.1279	46.45	-41.47	38.95	-51.33	-13.00	38.33	130	98	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1190.3595	54.64	-53.46	25.66	-68.42	-13.00	55.42	177	113	Vertical
2	1666.0333	54.45	-52.80	25.87	-67.74	-13.00	54.74	328	3	Vertical
3	2530.9765	53.66	-51.01	28.19	-64.42	-13.00	51.42	134	269	Vertical
4	3978.2489	51.63	-47.94	31.01	-60.56	-13.00	47.56	262	78	Vertical
5	5140.207	49.97	-44.27	33.58	-55.98	-13.00	42.98	159	88	Vertical
6	7893.4447	47.59	-42.19	37.36	-52.50	-13.00	39.50	143	83	Vertical



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**Test Band = WCDMA\_V\_ANT 31\_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1147.1574	54.43	-53.41	25.89	-68.35	-13.00	55.35	382	206	Horizontal
2	1694.3847	58.77	-52.67	25.81	-63.35	-13.00	50.35	207	326	Horizontal
3	2609.2805	53.50	-51.24	28.38	-64.62	-13.00	51.62	190	297	Horizontal
4	4358.0679	51.08	-46.72	31.95	-58.95	-13.00	45.95	173	317	Horizontal
5	5533.9767	49.92	-43.37	33.17	-55.54	-13.00	42.54	226	236	Horizontal
6	9041.4521	47.00	-40.21	38.72	-49.75	-13.00	36.75	305	360	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1321.7661	55.29	-53.94	25.73	-68.18	-13.00	55.18	137	208	Vertical
2	2097.6049	54.04	-52.08	27.48	-65.82	-13.00	52.82	183	258	Vertical
3	3106.5553	53.11	-50.37	30.13	-62.39	-13.00	49.39	274	218	Vertical
4	4309.4655	51.75	-47.08	31.82	-58.77	-13.00	45.77	386	127	Vertical
5	5516.4258	49.88	-43.26	33.13	-55.51	-13.00	42.51	256	349	Vertical
6	8462.2731	48.06	-41.94	37.98	-51.16	-13.00	38.16	305	33	Vertical



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**Test Band = WCDMA\_II\_ANT 13\_TM1**

**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1184.273	35.10	-19.27	25.69	-53.74	-13.00	40.74	263	54	Horizontal
2	2801.2252	37.74	-16.90	28.61	-45.81	-13.00	32.81	289	350	Horizontal
3	4415.3208	51.18	-48.37	32.11	-60.34	-13.00	47.34	237	57	Horizontal
4	7457.4729	47.97	-43.48	36.69	-54.08	-13.00	41.08	338	13	Horizontal
5	11248.9124	46.27	-39.47	39.65	-48.81	-13.00	35.81	108	23	Horizontal
6	14566.3283	43.73	-39.48	40.53	-50.48	-13.00	37.48	139	136	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1489.3112	35.32	-18.89	25.62	-53.21	-13.00	40.21	277	360	Vertical
2	2764.9706	37.88	-17.14	28.67	-45.85	-13.00	32.85	394	8	Vertical
3	4530.0765	51.01	-48.21	31.98	-60.48	-13.00	47.48	333	104	Vertical
4	7495.7248	48.17	-43.20	36.61	-53.68	-13.00	40.68	126	99	Vertical
5	11848.9424	45.35	-38.73	39.70	-48.94	-13.00	35.94	348	252	Vertical
6	17920.496	46.26	-42.98	42.32	-49.66	-13.00	36.66	329	281	Vertical



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**Test Band = WCDMA\_II\_ANT 13\_TM1**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1354.5443	35.32	-19.38	25.89	-53.43	-13.00	40.43	126	253	Horizontal
2	2524.1905	37.85	-17.86	28.15	-47.12	-13.00	34.12	122	297	Horizontal
3	4160.308	50.56	-48.50	31.18	-62.02	-13.00	49.02	301	13	Horizontal
4	7477.7239	48.03	-43.33	36.64	-53.92	-13.00	40.92	323	328	Horizontal
5	11239.912	46.23	-39.43	39.66	-48.80	-13.00	35.80	225	248	Horizontal
6	15811.3906	44.43	-39.86	39.30	-51.39	-13.00	38.39	238	199	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1361.0451	35.20	-19.37	25.88	-53.55	-13.00	40.55	386	12	Vertical
2	2561.6952	37.70	-17.69	28.32	-46.93	-13.00	33.93	205	286	Vertical
3	4280.314	50.67	-48.68	31.92	-61.35	-13.00	48.35	298	261	Vertical
4	7473.2237	48.51	-43.37	36.65	-53.47	-13.00	40.47	227	90	Vertical
5	11194.9097	46.42	-39.27	39.68	-48.43	-13.00	35.43	324	207	Vertical
6	16285.4143	45.02	-40.10	38.37	-51.97	-13.00	38.97	335	129	Vertical



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**Test Band = WCDMA\_II\_ANT 13\_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1346.7933	34.90	-19.40	25.88	-53.88	-13.00	40.88	199	257	Horizontal
2	2513.9392	37.73	-17.95	28.08	-47.40	-13.00	34.40	176	271	Horizontal
3	3993.7997	51.13	-49.06	31.08	-62.11	-13.00	49.11	232	187	Horizontal
4	6512.4256	48.10	-44.32	35.12	-56.36	-13.00	43.36	257	339	Horizontal
5	8991.2996	47.05	-41.72	38.75	-51.18	-13.00	38.18	368	295	Horizontal
6	11797.1899	45.38	-38.75	39.89	-48.74	-13.00	35.74	330	315	Horizontal
7	17753.2377	46.34	-44.31	41.45	-51.78	-13.00	38.78	136	20	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1367.796	35.25	-19.37	25.86	-53.52	-13.00	40.52	127	206	Vertical
2	2641.7052	38.44	-17.58	28.32	-46.08	-13.00	33.08	123	120	Vertical
3	4238.3119	50.64	-48.51	31.96	-61.17	-13.00	48.17	332	40	Vertical
4	5686.6343	49.06	-44.86	33.45	-57.61	-13.00	44.61	328	69	Vertical
5	8550.2775	46.34	-42.25	39.10	-52.07	-13.00	39.07	255	163	Vertical
6	12289.9645	44.61	-37.88	39.68	-48.85	-13.00	35.85	336	197	Vertical



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**Test Band = WCDMA\_IV\_ANT 13\_TM1**  
**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1167.5209	35.29	-19.19	25.79	-53.37	-13.00	40.37	178	163	Horizontal
2	2405.1756	37.27	-17.50	27.81	-47.68	-13.00	34.68	298	145	Horizontal
3	3423.0212	57.30	-50.15	29.71	-58.40	-13.00	45.40	238	174	Horizontal
4	5265.1133	49.26	-46.54	33.34	-59.20	-13.00	46.20	334	42	Horizontal
5	7385.4693	48.96	-44.08	36.83	-53.55	-13.00	40.55	162	320	Horizontal
6	15932.1466	44.59	-39.55	38.40	-51.82	-13.00	38.82	265	194	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1354.5443	35.48	-19.38	25.89	-53.27	-13.00	40.27	333	150	Vertical
2	2540.9426	37.82	-17.71	28.25	-46.90	-13.00	33.90	203	132	Vertical
3	3423.0212	55.90	-50.15	29.71	-59.80	-13.00	46.80	299	176	Vertical
4	5501.3751	49.27	-45.46	33.10	-58.35	-13.00	45.35	243	88	Vertical
5	9015.3008	47.25	-41.72	38.77	-50.96	-13.00	37.96	190	124	Vertical
6	15941.1471	44.35	-39.62	38.38	-52.15	-13.00	39.15	352	32	Vertical



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**Test Band = WCDMA\_IV\_ANT 13\_TM1**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1380.7976	35.02	-19.35	25.84	-53.75	-13.00	40.75	323	53	Horizontal
2	2638.2048	38.53	-17.60	28.32	-46.01	-13.00	33.01	276	106	Horizontal
3	3638.2819	52.45	-49.26	30.35	-61.72	-13.00	48.72	225	100	Horizontal
4	6052.6526	48.67	-45.24	34.41	-57.42	-13.00	44.42	248	261	Horizontal
5	11798.6899	45.82	-38.75	39.89	-48.30	-13.00	35.30	103	76	Horizontal
6	17901.7451	45.87	-42.98	42.21	-50.16	-13.00	37.16	330	0	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1365.0456	35.12	-19.37	25.87	-53.64	-13.00	40.64	225	132	Vertical
2	2673.4592	38.42	-17.59	28.39	-46.04	-13.00	33.04	325	88	Vertical
3	4404.8202	51.14	-48.43	32.17	-60.38	-13.00	47.38	373	46	Vertical
4	7385.4693	48.77	-44.08	36.83	-53.74	-13.00	40.74	369	149	Vertical
5	11814.4407	46.02	-38.74	39.84	-48.14	-13.00	35.14	359	183	Vertical
6	15024.6012	44.29	-38.95	39.88	-50.04	-13.00	37.04	381	100	Vertical



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**Test Band = WCDMA\_IV\_ANT 13\_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1338.0423	35.11	-19.43	25.83	-53.75	-13.00	40.75	126	66	Horizontal
2	2668.9586	38.24	-17.57	28.38	-46.21	-13.00	33.21	129	19	Horizontal
3	3504.0252	53.95	-49.09	29.82	-60.58	-13.00	47.58	224	174	Horizontal
4	5802.1401	49.28	-45.51	34.10	-57.39	-13.00	44.39	236	179	Horizontal
5	11781.4391	45.50	-38.72	39.83	-48.65	-13.00	35.65	350	232	Horizontal
6	17897.9949	46.78	-43.02	42.18	-49.32	-13.00	36.32	307	242	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1392.7991	35.25	-19.33	25.81	-53.53	-13.00	40.53	253	121	Vertical
2	2642.9554	39.11	-17.57	28.31	-45.41	-13.00	32.41	367	146	Vertical
3	4404.0702	50.90	-48.44	32.18	-60.62	-13.00	47.62	239	310	Vertical
4	6978.1989	48.44	-44.35	36.46	-54.71	-13.00	41.71	338	114	Vertical
5	12304.2152	44.83	-37.90	39.70	-48.63	-13.00	35.63	109	315	Vertical
6	15001.3501	43.82	-38.77	39.90	-50.31	-13.00	37.31	205	36	Vertical



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**Test Band = WCDMA\_V\_ANT 13\_TM1**

**Test Channel = LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1147.1574	54.26	-53.41	25.89	-68.52	-13.00	55.52	308	295	Horizontal
2	1651.6326	64.41	-52.86	25.90	-57.81	-13.00	44.81	202	168	Horizontal
3	2476.5238	55.13	-51.24	27.95	-63.42	-13.00	50.42	195	11	Horizontal
4	4019.651	51.42	-48.19	31.02	-61.01	-13.00	48.01	227	99	Horizontal
5	6605.4803	48.15	-44.02	35.48	-55.65	-13.00	42.65	362	198	Horizontal
6	9592.7296	45.69	-39.42	39.19	-49.80	-13.00	36.80	154	242	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1161.1081	54.63	-53.39	25.83	-68.19	-13.00	55.19	310	170	Vertical
2	1651.1826	64.95	-52.86	25.90	-57.27	-13.00	44.27	219	230	Vertical
3	2533.6767	53.58	-51.00	28.20	-64.48	-13.00	51.48	226	186	Vertical
4	4305.8653	50.91	-47.12	31.81	-59.66	-13.00	46.66	351	112	Vertical
5	6344.4672	48.81	-43.92	34.79	-55.58	-13.00	42.58	254	160	Vertical
6	9555.3778	46.22	-39.81	39.11	-49.74	-13.00	36.74	302	76	Vertical



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**Test Band = WCDMA\_V\_ANT 13\_TM1**

**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1164.7082	54.67	-53.40	25.81	-68.18	-13.00	55.18	138	37	Horizontal
2	1671.4336	65.47	-52.78	25.86	-56.71	-13.00	43.71	267	175	Horizontal
3	2530.9765	54.09	-51.01	28.19	-63.99	-13.00	50.99	335	6	Horizontal
4	3696.9848	52.84	-49.18	30.31	-61.29	-13.00	48.29	281	53	Horizontal
5	7387.1694	48.19	-42.59	36.83	-52.83	-13.00	39.83	264	190	Horizontal
6	9587.3294	45.93	-39.48	39.17	-49.64	-13.00	36.64	253	47	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1146.7073	55.01	-53.42	25.89	-67.78	-13.00	54.78	104	286	Vertical
2	1670.9835	65.40	-52.78	25.86	-56.78	-13.00	43.78	324	231	Vertical
3	2529.6265	53.72	-51.02	28.18	-64.38	-13.00	51.38	121	102	Vertical
4	4247.8124	50.50	-47.26	32.07	-59.95	-13.00	46.95	227	97	Vertical
5	7430.3715	48.03	-42.71	36.74	-53.20	-13.00	40.20	308	231	Vertical
6	9594.5297	45.75	-39.41	39.19	-49.73	-13.00	36.73	111	132	Vertical



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**Test Band = WCDMA\_V\_ANT 13\_TM1**

**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1174.1587	54.49	-53.42	25.76	-68.43	-13.00	55.43	159	69	Horizontal
2	1691.6846	64.74	-52.69	25.82	-57.39	-13.00	44.39	235	172	Horizontal
3	2542.6771	54.28	-50.94	28.26	-63.66	-13.00	50.66	201	15	Horizontal
4	3761.7881	52.13	-48.73	30.50	-61.36	-13.00	48.36	252	109	Horizontal
5	5548.8274	50.59	-43.46	33.20	-54.93	-13.00	41.93	317	327	Horizontal
6	9027.5014	47.28	-40.43	38.74	-49.67	-13.00	36.67	176	360	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1081.004	55.03	-53.90	25.76	-68.37	-13.00	55.37	187	15	Vertical
2	1691.6846	65.26	-52.69	25.82	-56.87	-13.00	43.87	271	222	Vertical
3	2856.7928	52.94	-50.19	28.93	-63.58	-13.00	50.58	365	37	Vertical
4	5086.6543	49.85	-44.20	33.47	-56.14	-13.00	43.14	377	21	Vertical
5	7894.3447	47.20	-42.19	37.37	-52.88	-13.00	39.88	209	354	Vertical
6	9522.9761	46.39	-40.02	39.15	-49.74	-13.00	36.74	103	292	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 (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandII	9400	VN	NT	-3.81	-0.002027	--	PASS
BandII	9400	VL	NT	-0.53	-0.000282	--	PASS
BandII	9400	VH	NT	-6.59	-0.003505	--	PASS
BandIV	1413	VN	NT	-11.44	-0.006603	--	PASS
BandIV	1413	VL	NT	-3.94	-0.002274	--	PASS
BandIV	1413	VH	NT	-10.31	-0.005951	--	PASS
BandV	4182	VN	NT	-9.46	-0.011310	±2.5	PASS
BandV	4182	VL	NT	-16.75	-0.020026	±2.5	PASS
BandV	4182	VH	NT	-4.62	-0.005524	±2.5	PASS



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Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandII	9400	NV	-30	-9.35	-0.004973	--	PASS
BandII	9400	NV	-20	-9.83	-0.005229	--	PASS
BandII	9400	NV	-10	-16.02	-0.008521	--	PASS
BandII	9400	NV	0	-16.86	-0.008968	--	PASS
BandII	9400	NV	10	-10.35	-0.005505	--	PASS
BandII	9400	NV	20	-11.96	-0.006362	--	PASS
BandII	9400	NV	30	-14.01	-0.007452	--	PASS
BandII	9400	NV	40	-11.96	-0.006362	--	PASS
BandII	9400	NV	50	-17.72	-0.009426	--	PASS
BandIV	1413	NV	-30	-8.73	-0.005039	--	PASS
BandIV	1413	NV	-20	-1.79	-0.001033	--	PASS
BandIV	1413	NV	-10	-11.38	-0.006568	--	PASS
BandIV	1413	NV	0	-15.08	-0.008704	--	PASS
BandIV	1413	NV	10	-11.25	-0.006493	--	PASS
BandIV	1413	NV	20	-14.48	-0.008357	--	PASS
BandIV	1413	NV	30	-15.24	-0.008796	--	PASS
BandIV	1413	NV	40	-17.62	-0.010170	--	PASS
BandIV	1413	NV	50	-8.44	-0.004871	--	PASS
BandV	4182	NV	-30	-9.70	-0.011597	±2.5	PASS
BandV	4182	NV	-20	-8.70	-0.010402	±2.5	PASS
BandV	4182	NV	-10	-16.49	-0.019715	±2.5	PASS
BandV	4182	NV	0	-13.14	-0.015710	±2.5	PASS
BandV	4182	NV	10	-15.88	-0.018986	±2.5	PASS
BandV	4182	NV	20	-9.16	-0.010952	±2.5	PASS
BandV	4182	NV	30	-6.41	-0.007664	±2.5	PASS
BandV	4182	NV	40	-13.76	-0.016451	±2.5	PASS
BandV	4182	NV	50	-12.18	-0.014562	±2.5	PASS

---End of Attachment---



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