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Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	Eirp(dBm)	Limit(dBm)	Verdict
Band2	9262	23.39	23.16	33.01	PASS
Band2	9400	23.46	23.23	33.01	PASS
Band2	9538	23.50	23.27	33.01	PASS
Band4	1312	23.21	22.37	30.00	PASS
Band4	1413	23.78	22.94	30.00	PASS
Band4	1513	23.77	22.93	30.00	PASS
Band	Channel	Power(dBm)	Erp(dBm)	Limit(dBm)	Verdict
Band5	4132	23.20	19.79	38.45	PASS
Band5	4182	23.23	19.82	38.45	PASS
Band5	4233	23.30	19.89	38.45	PASS



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Peak-to-Average Ratio

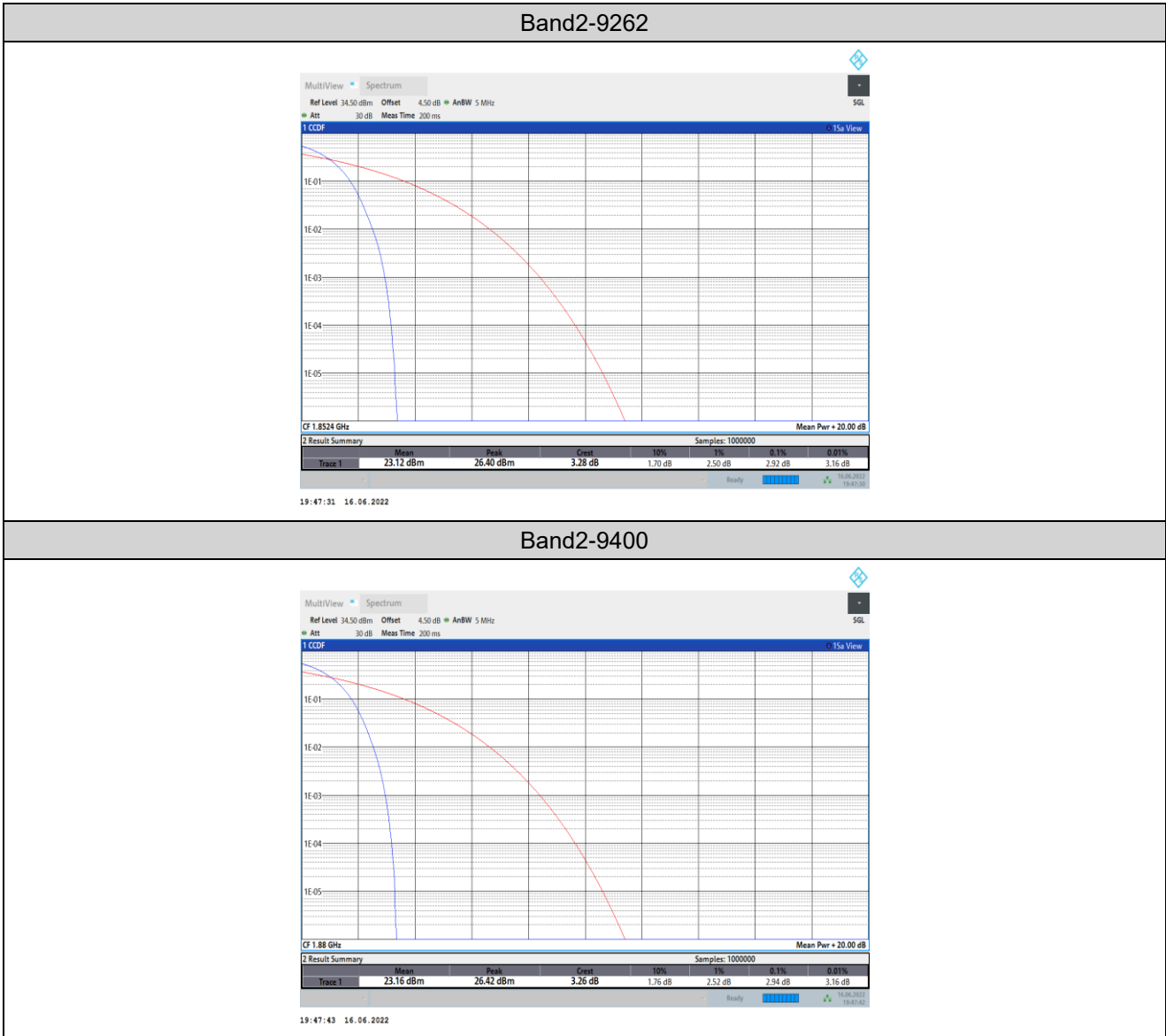
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.92	13	PASS
Band2	9400	2.94	13	PASS
Band2	9538	2.9	13	PASS
Band4	1312	2.94	13	PASS
Band4	1413	3	13	PASS
Band4	1513	2.94	13	PASS
Band5	4132	3.12	13	PASS
Band5	4182	2.74	13	PASS
Band5	4233	2.66	13	PASS



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Test Graphs

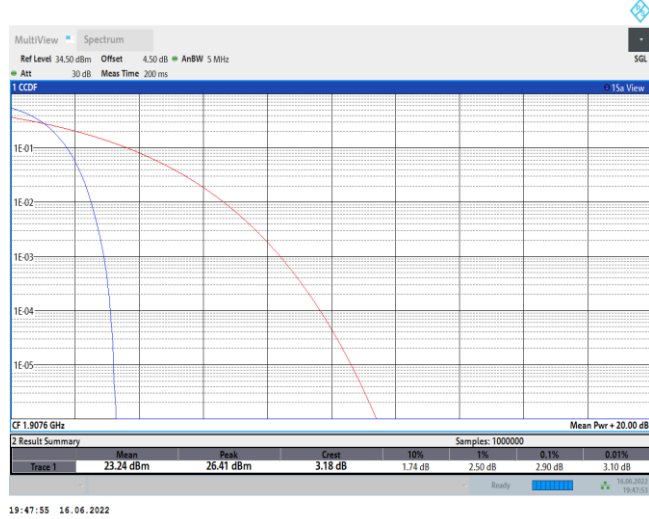


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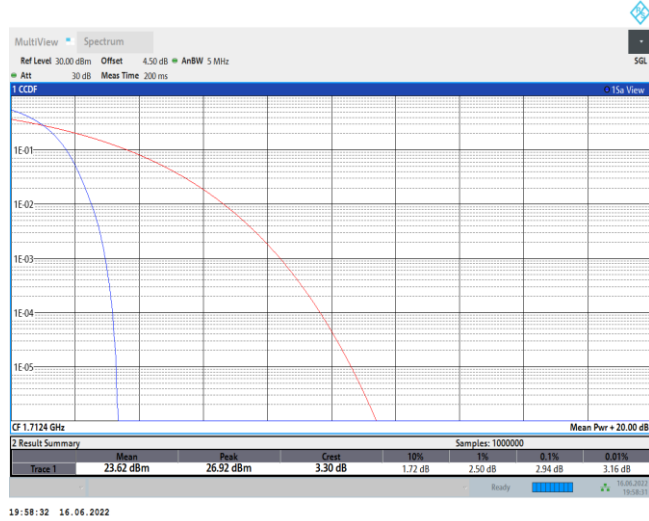
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Band2-9538



19:47:55 16.06.2022

Band4-1312

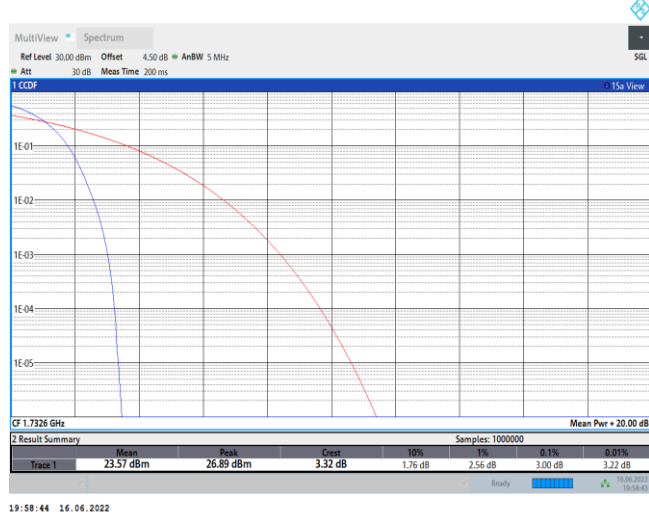


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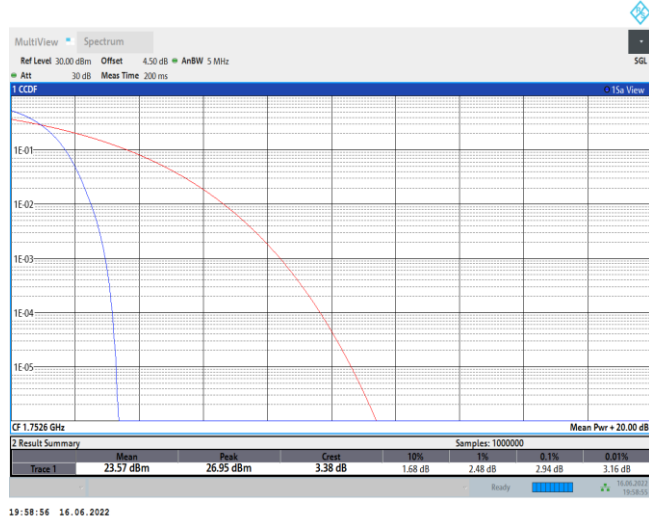
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Band4-1413



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Band4-1513



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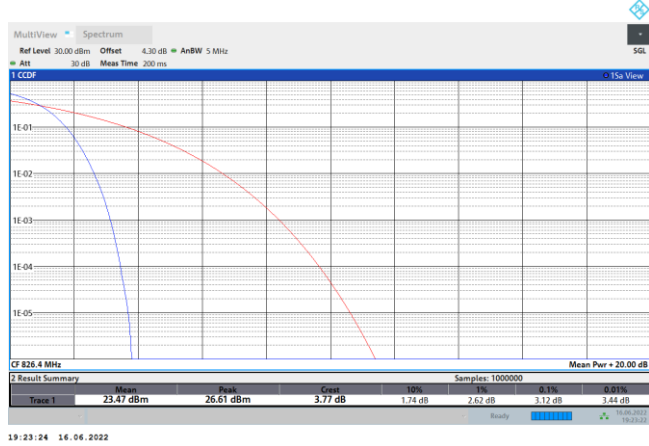
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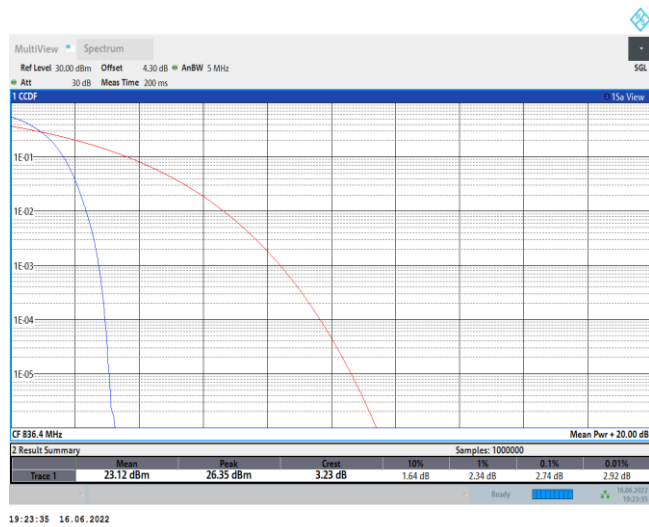
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Band5-4132



Band5-4182



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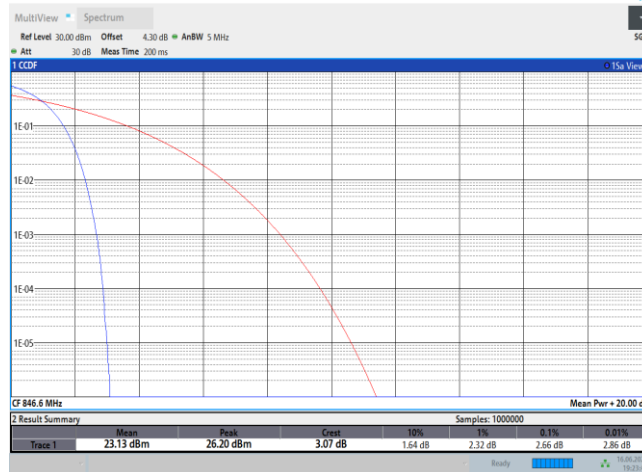
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Band5-4233



19:23:47 16.06.2022



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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band2	9400	PASS	PASS
Band4	1513	PASS	PASS
Band5	4182	PASS	PASS



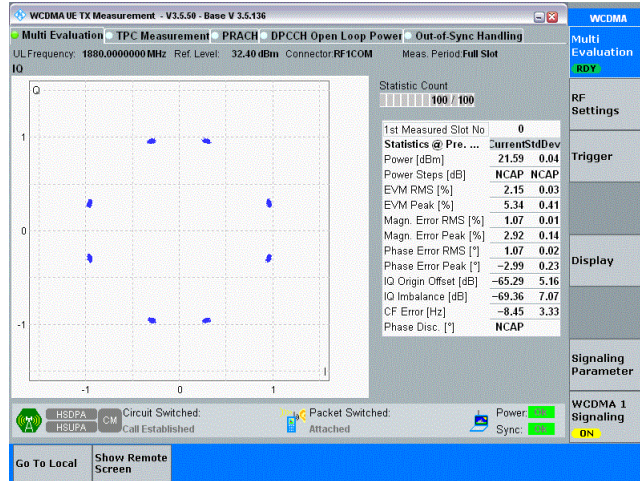
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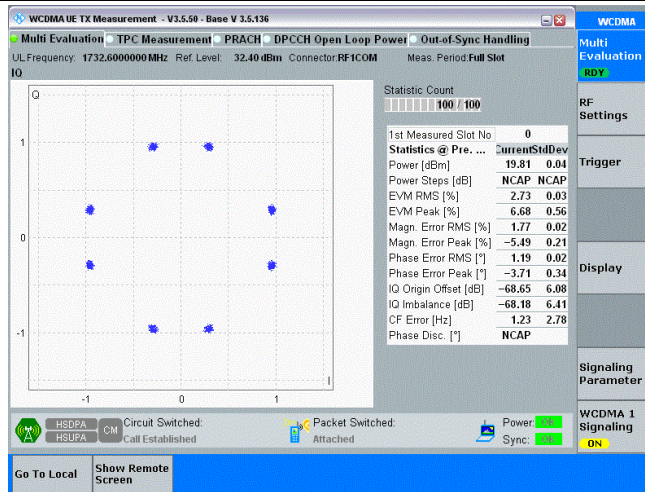
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Test Graphs

Band2-9400

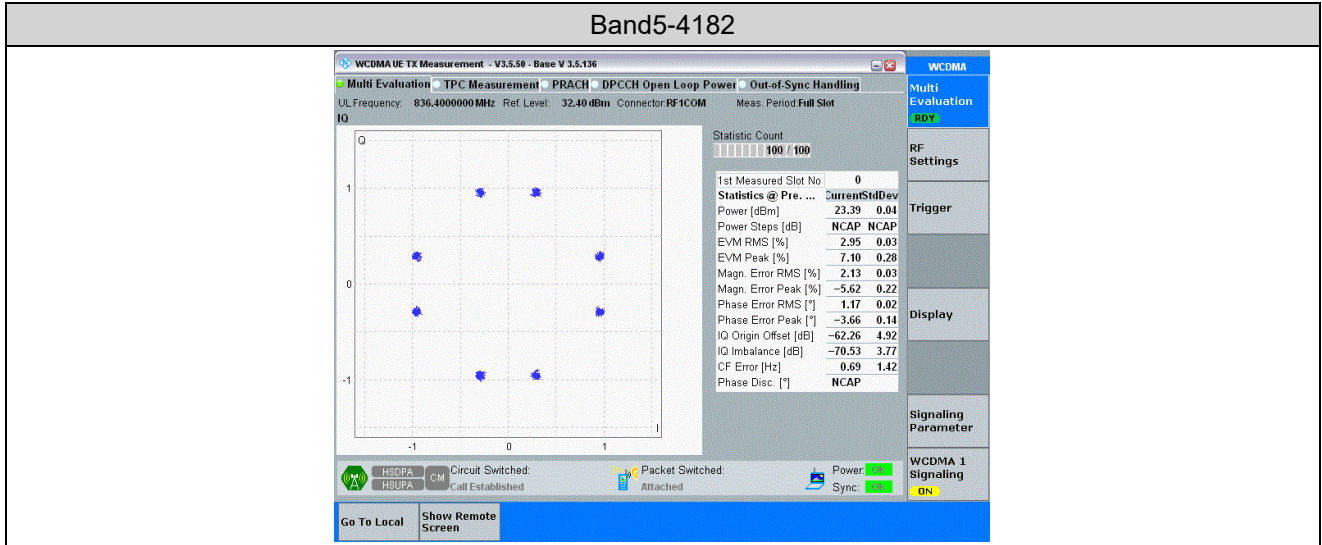


Band4-1513



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.184	4.73	---	PASS
Band2	9400	4.185	4.74	---	PASS
Band2	9538	4.19	4.74	---	PASS
Band4	1312	4.165	4.73	---	PASS
Band4	1413	4.162	4.72	---	PASS
Band4	1513	4.169	4.73	---	PASS
Band5	4132	4.157	4.72	---	PASS
Band5	4182	4.171	4.74	---	PASS
Band5	4233	4.177	4.74	---	PASS



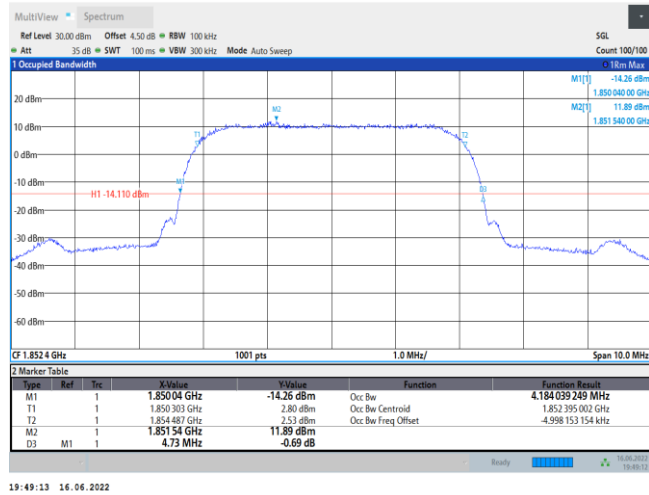
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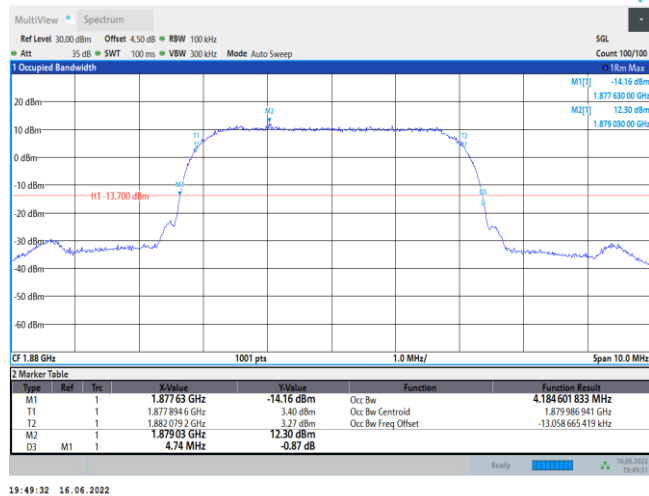
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Test Graphs

Band2-9262



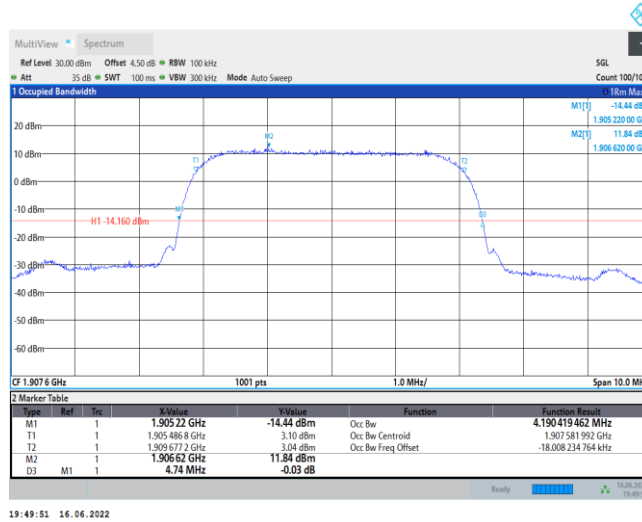
Band2-9400



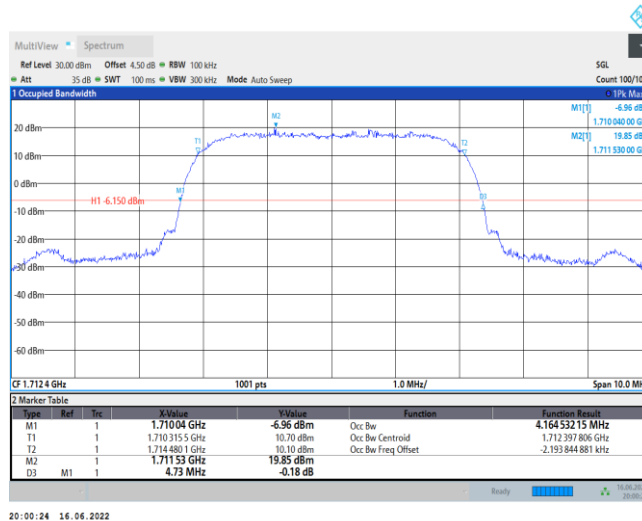
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Band2-9538



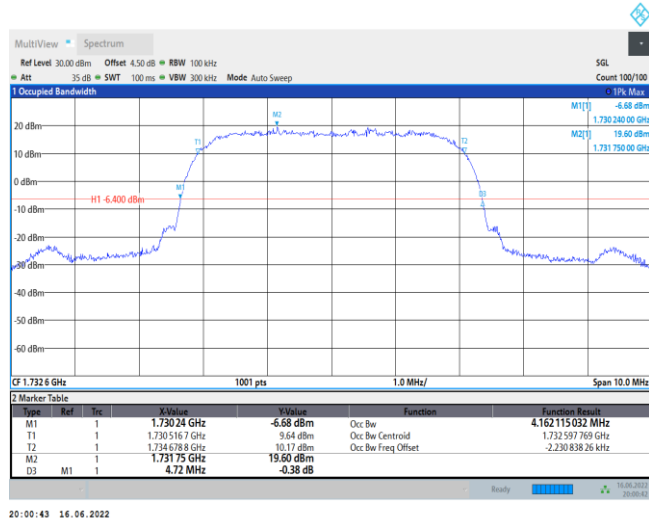
Band4-1312



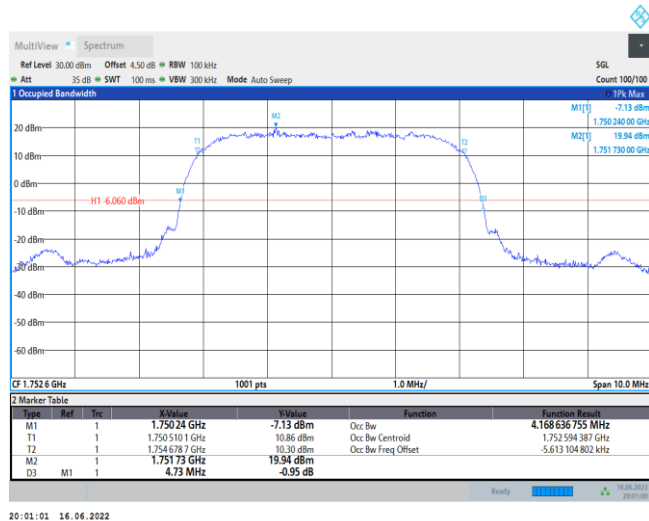
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Band4-1413



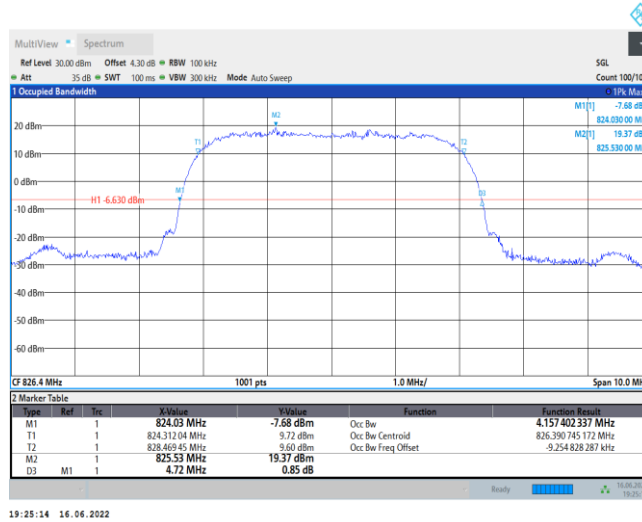
Band4-1513



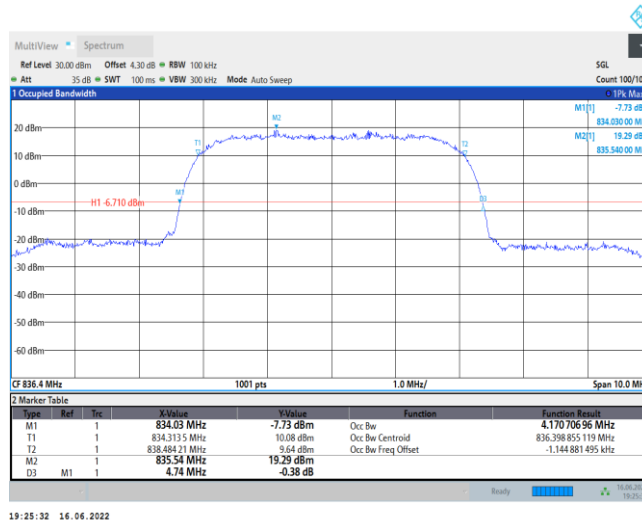
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Band5-4132

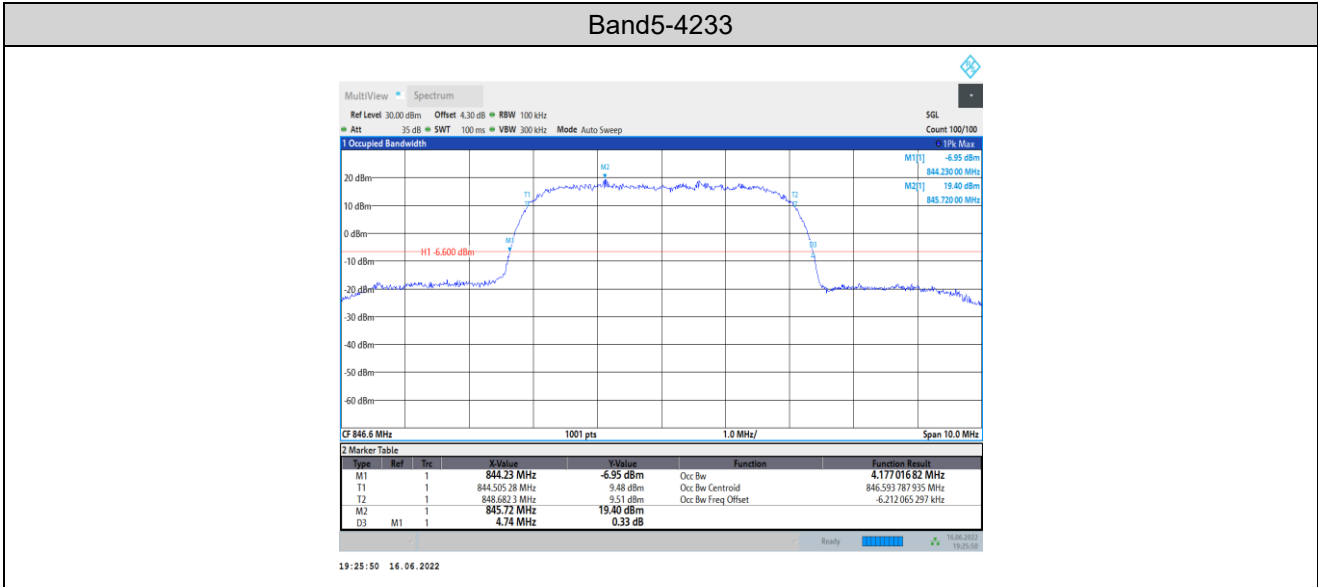


Band5-4182



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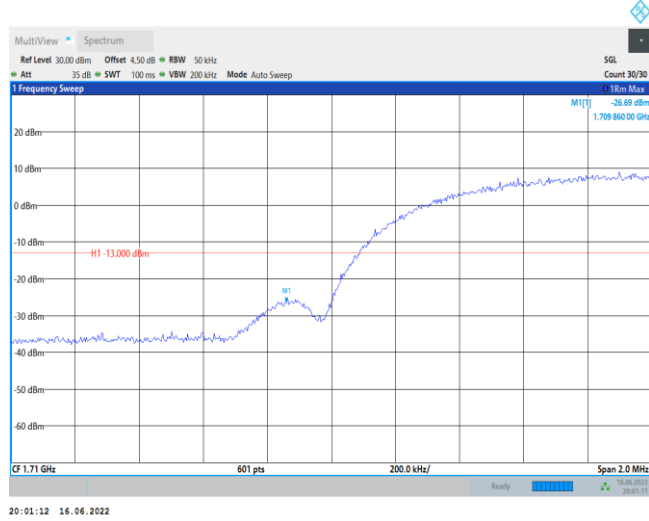
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Band Edge

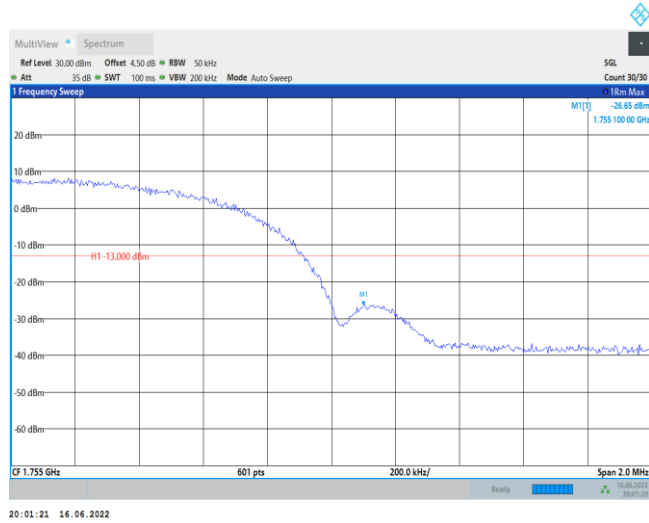
Test Graphs



Band4-1312

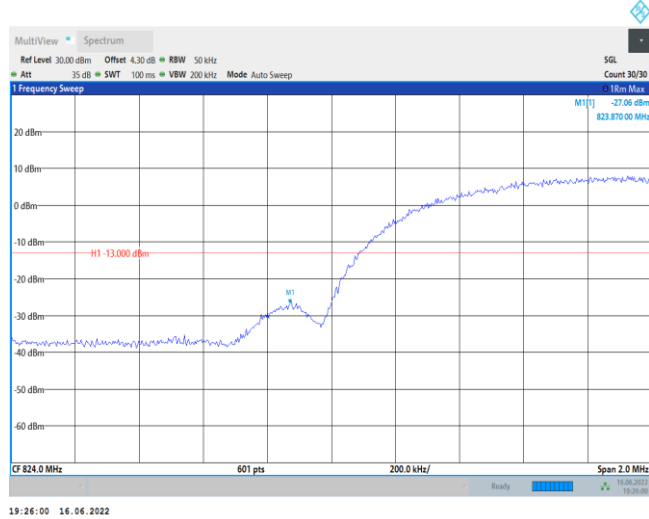


Band4-1513

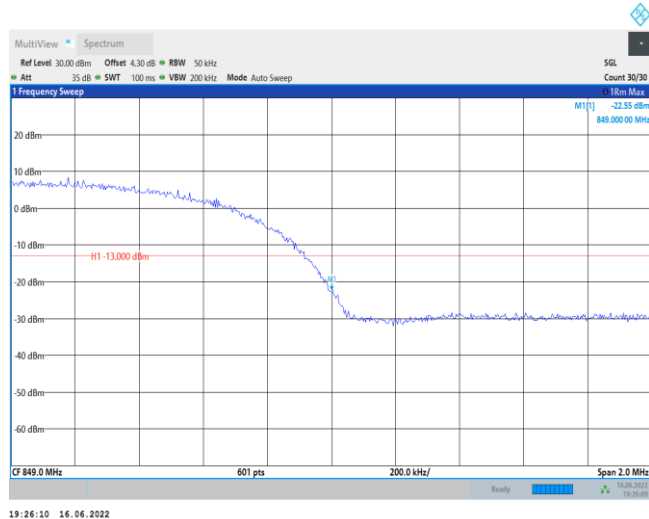


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Band5-4132



Band5-4233



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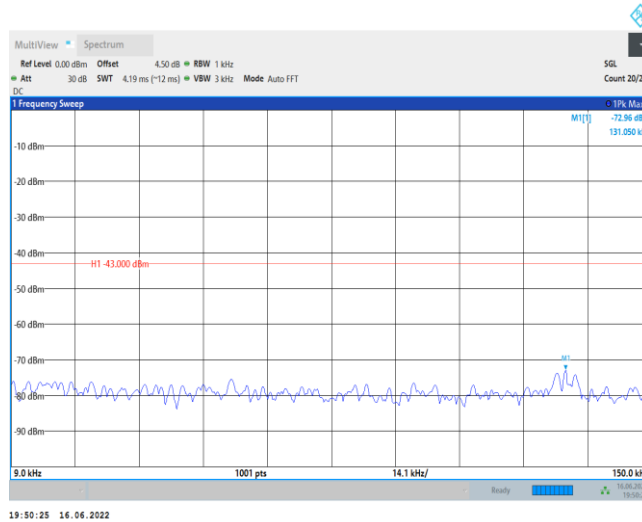
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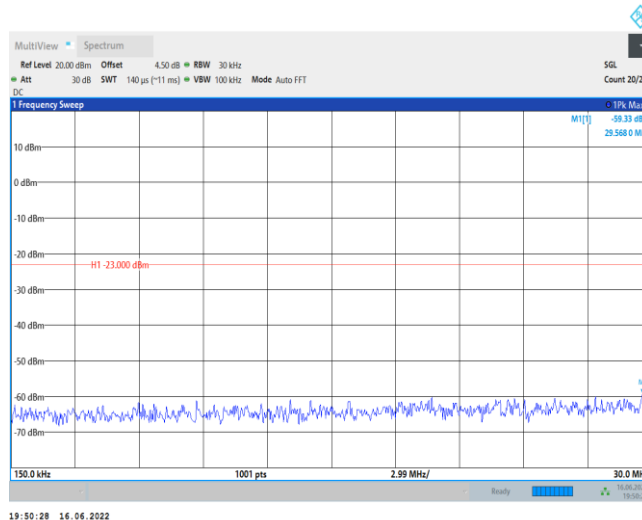
Conducted Spurious Emission

Test Graphs

Band2-9262-0.009~0.15MHz

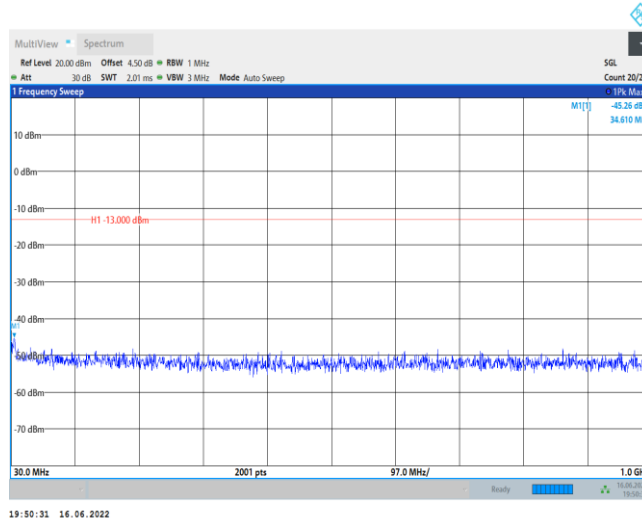


Band2-9262-0.15~30MHz

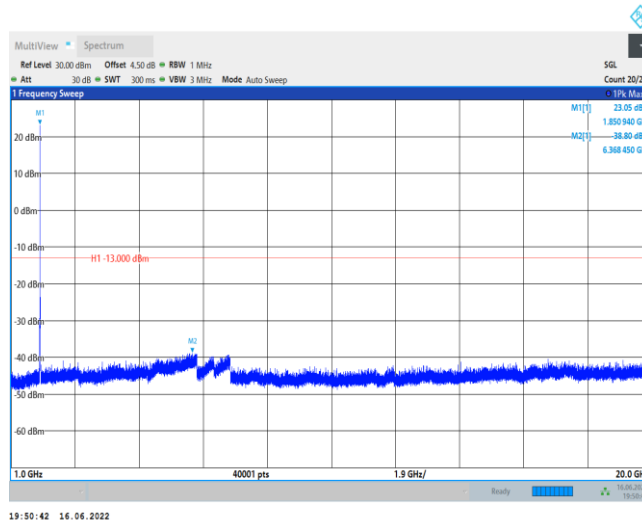


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Band2-9262-30~1000MHz

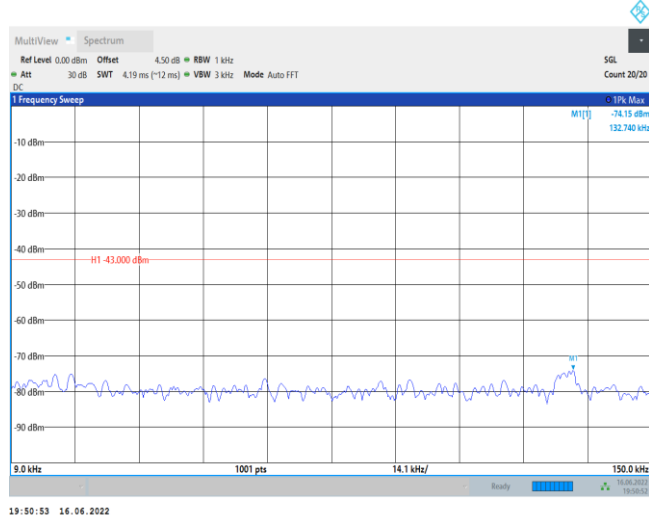


Band2-9262-1000~20000MHz

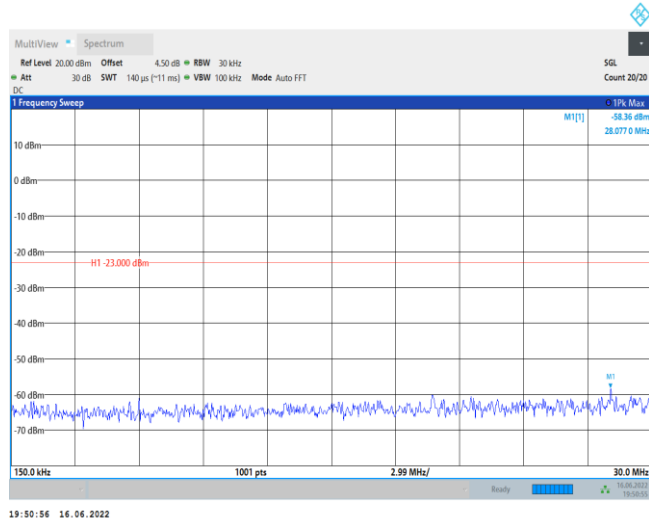


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Band2-9400-0.009~0.15MHz

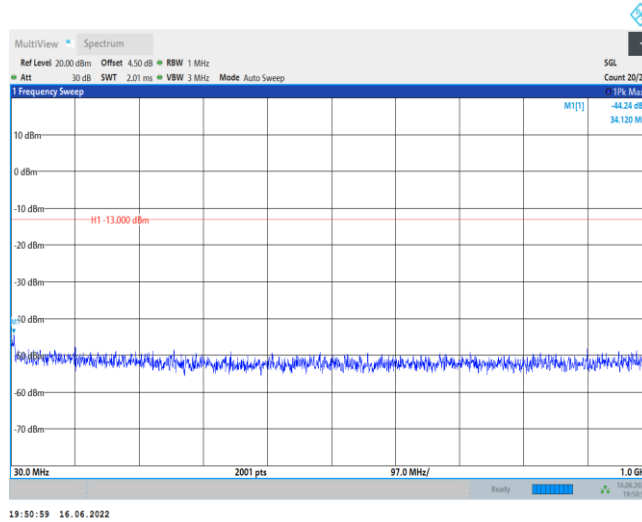


Band2-9400-0.15~30MHz

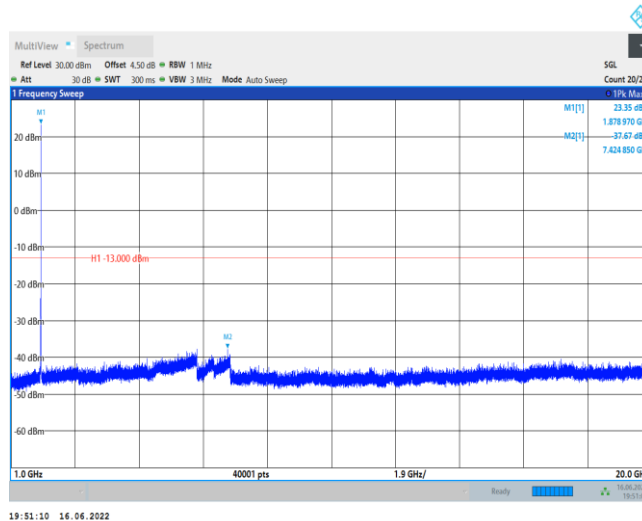


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Band2-9400-30~1000MHz

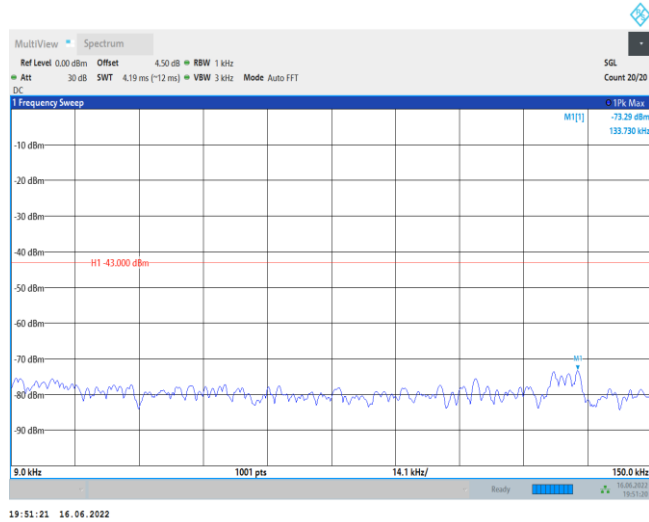


Band2-9400-1000~20000MHz

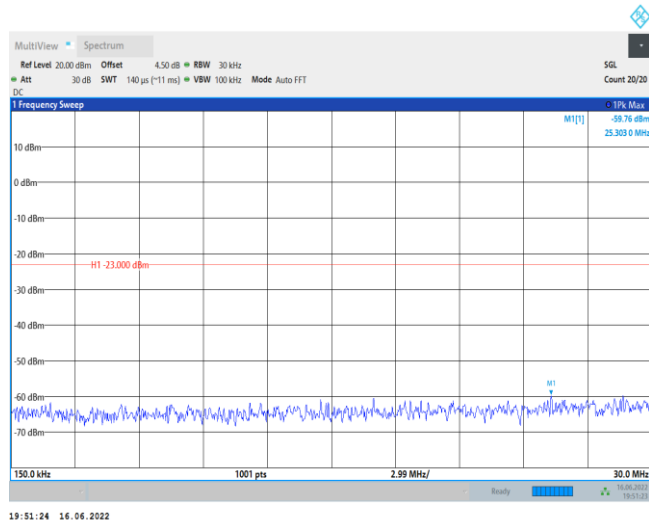


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Band2-9538-0.009~0.15MHz



Band2-9538-0.15~30MHz

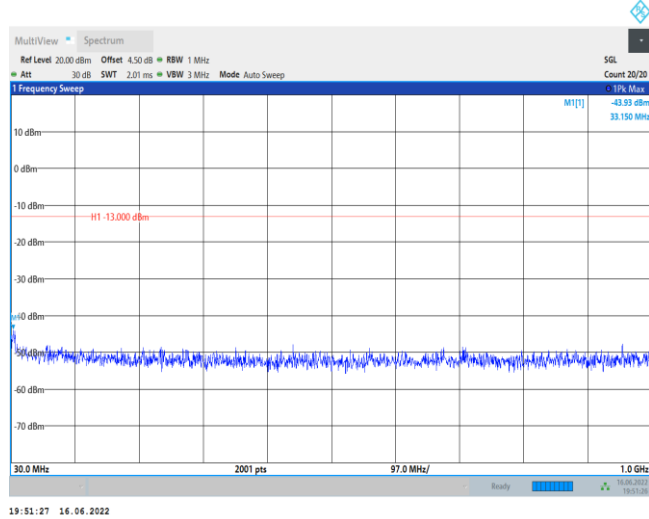


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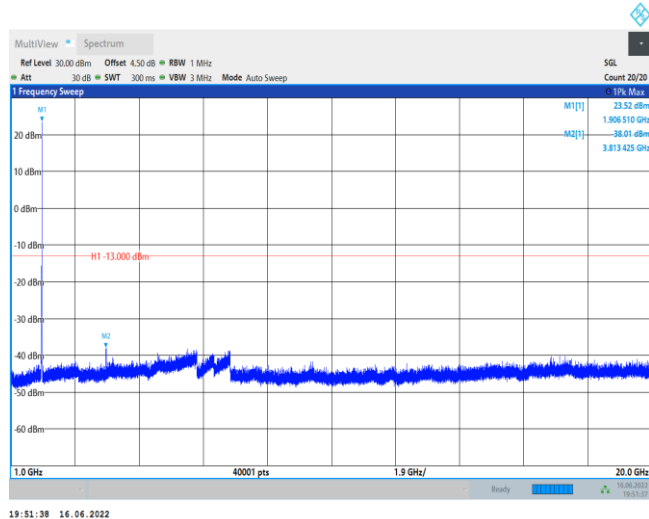
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Band2-9538-30~1000MHz

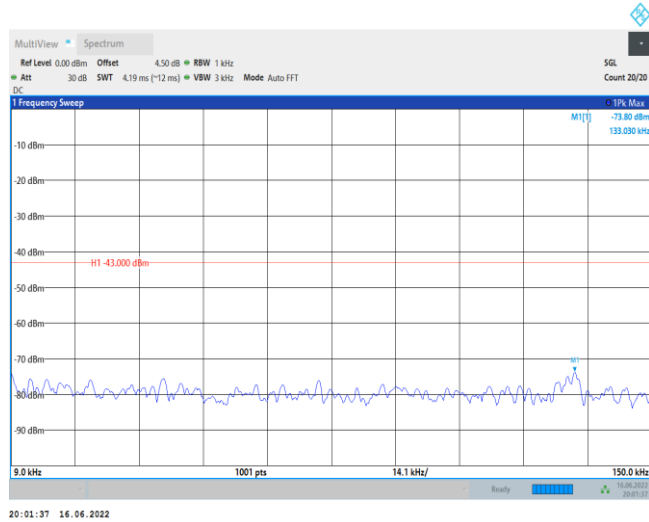


Band2-9538-1000~20000MHz

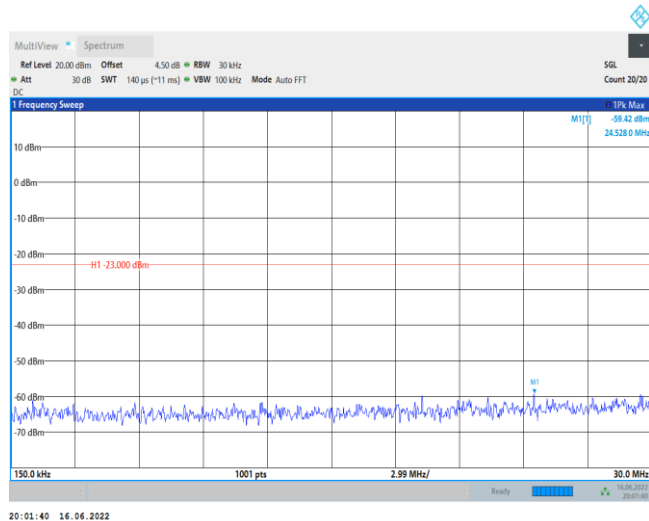


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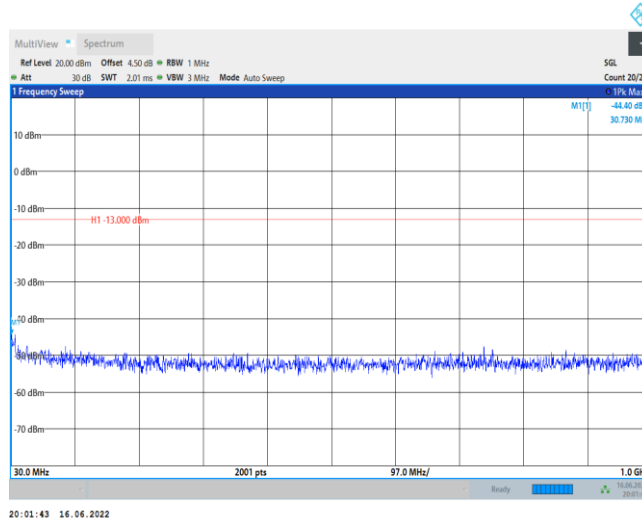
Band4-1312-0.009~0.15MHz



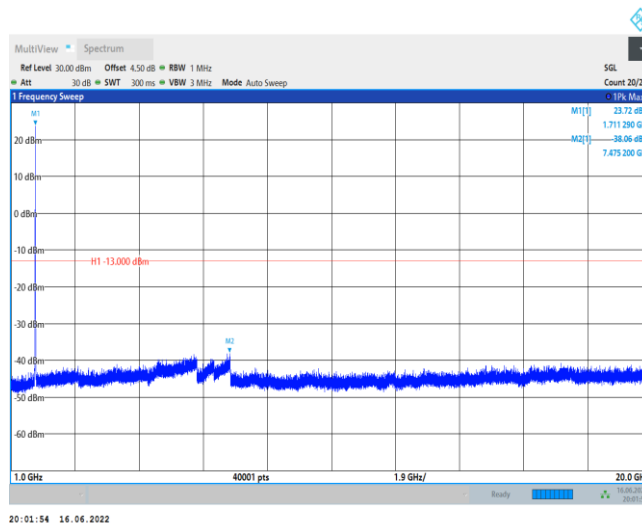
Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz

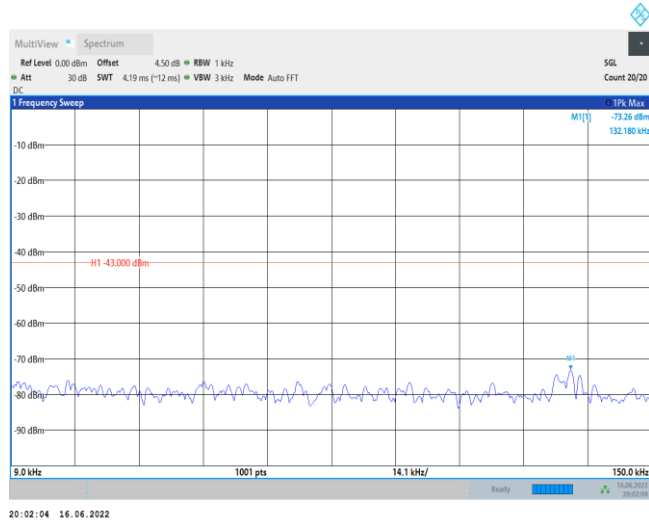


Band4-1312-1000~20000MHz

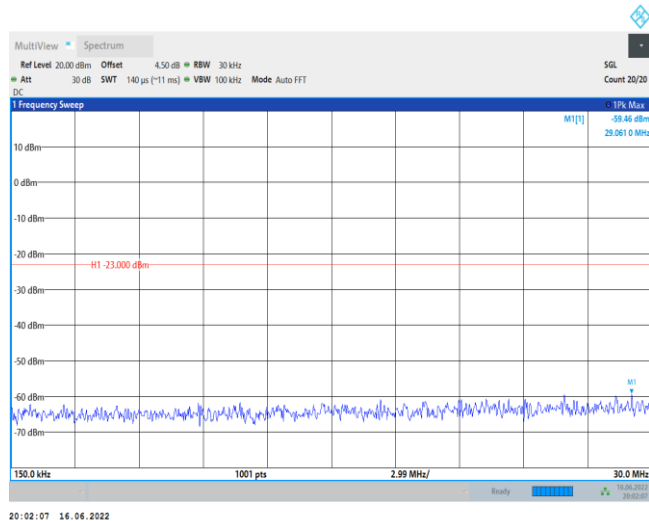


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Band4-1413-0.009~0.15MHz

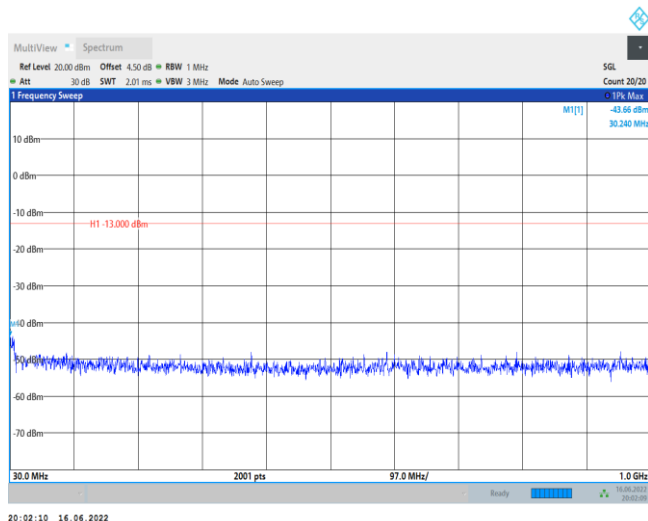


Band4-1413-0.15~30MHz

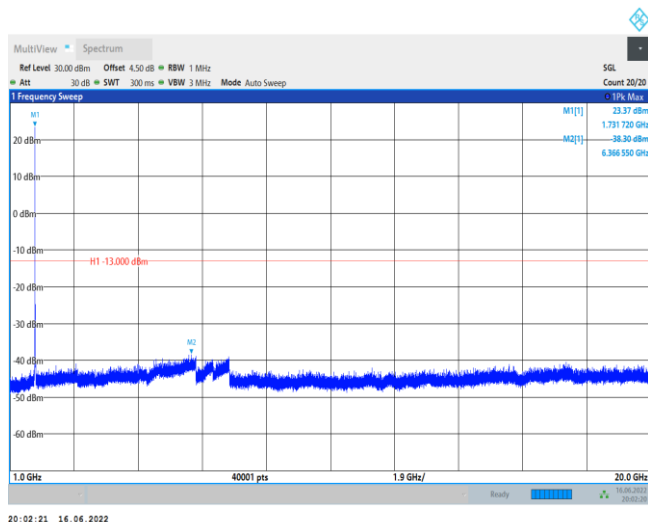


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Band4-1413-30~1000MHz



Band4-1413-1000~20000MHz

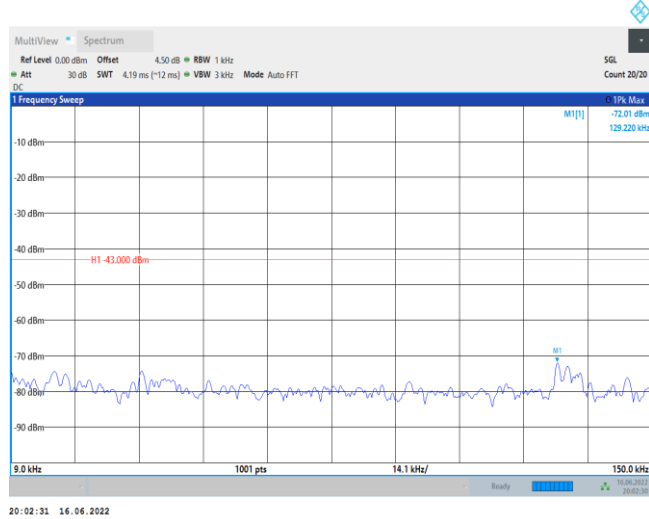


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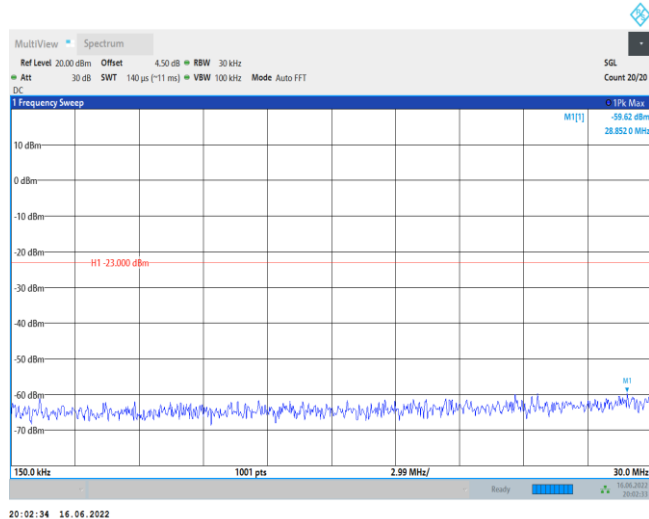
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Band4-1513-0.009~0.15MHz



Band4-1513-0.15~30MHz



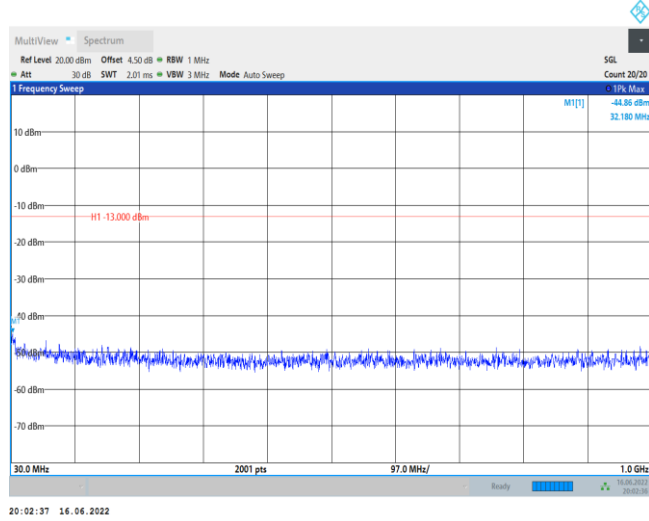
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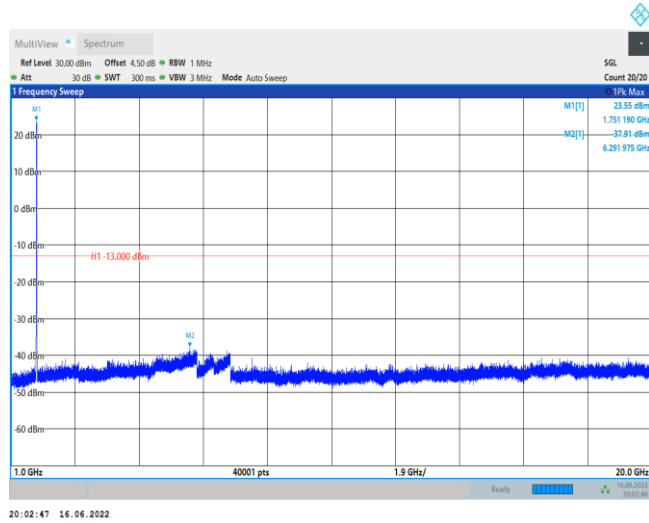
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t (86-512) 62992980 sgs.china@sgs.com

Band4-1513-30~1000MHz



Band4-1513-1000~20000MHz

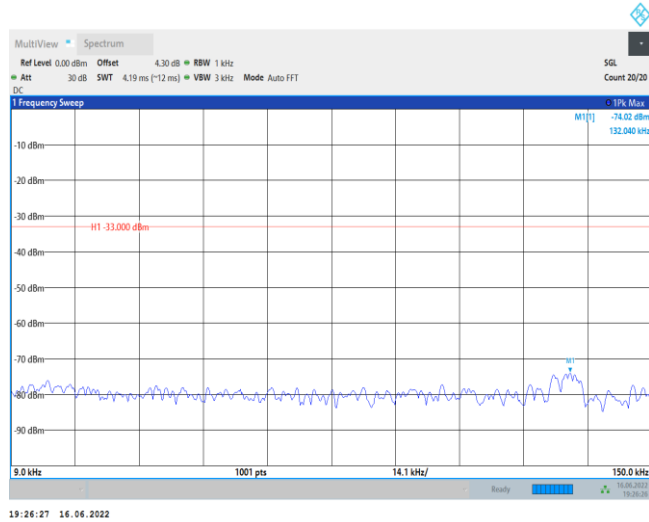


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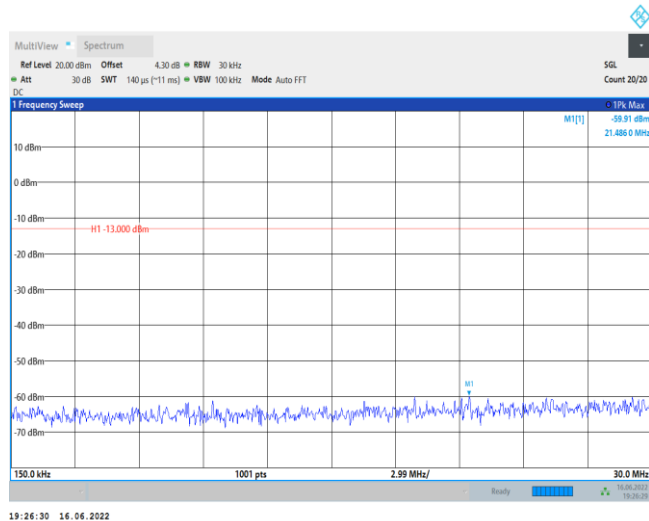
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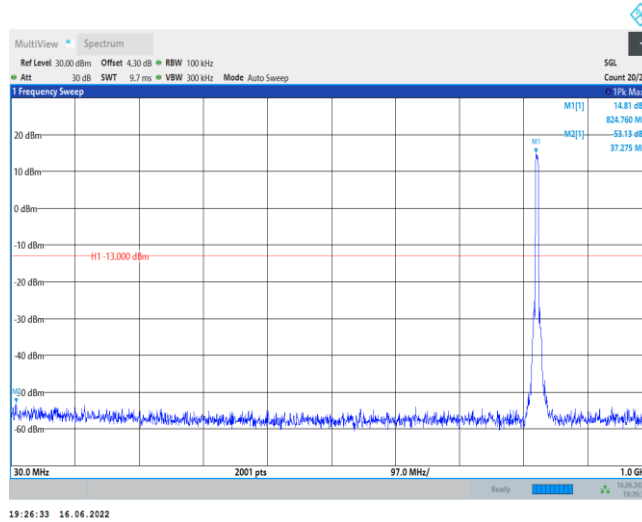
Band5-4132-0.009~0.15MHz



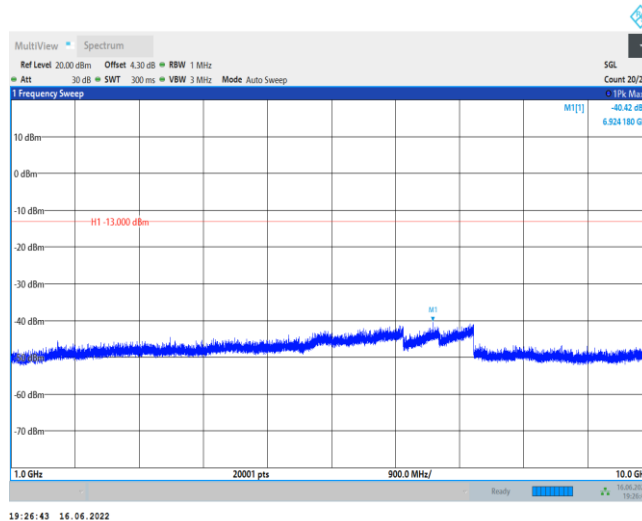
Band5-4132-0.15~30MHz



Band5-4132-30~1000MHz

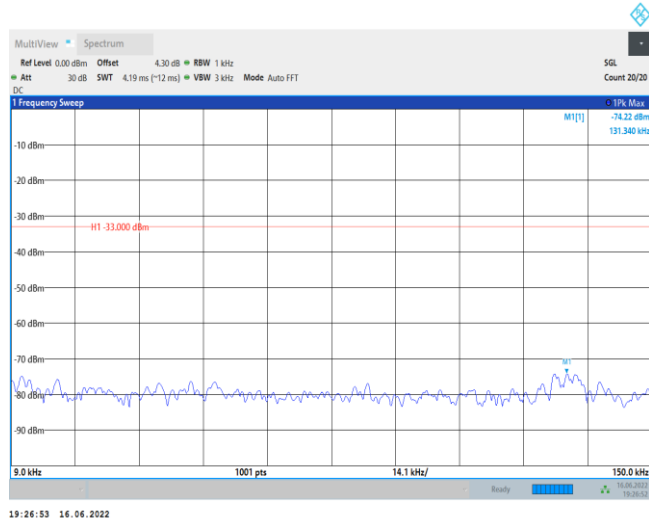


Band5-4132-1000~10000MHz

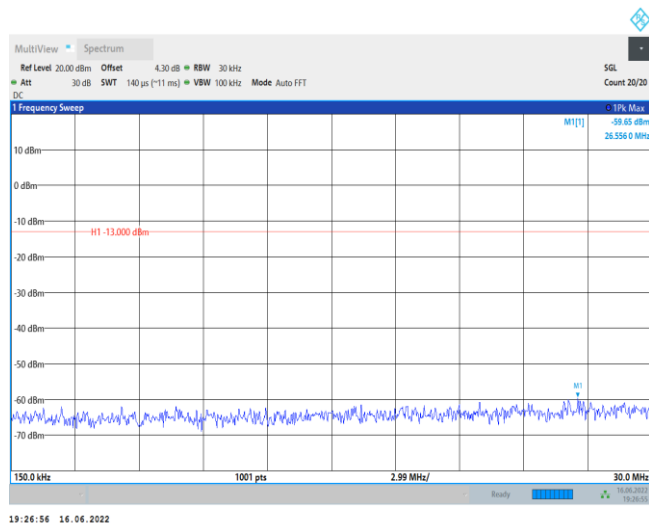


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Band5-4182-0.009~0.15MHz

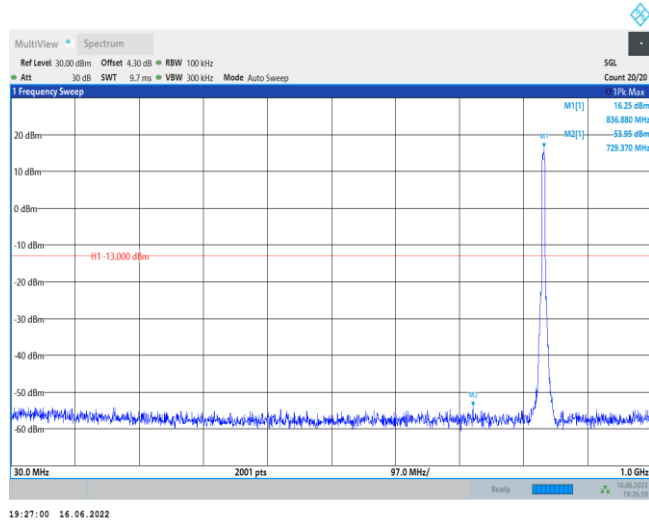


Band5-4182-0.15~30MHz

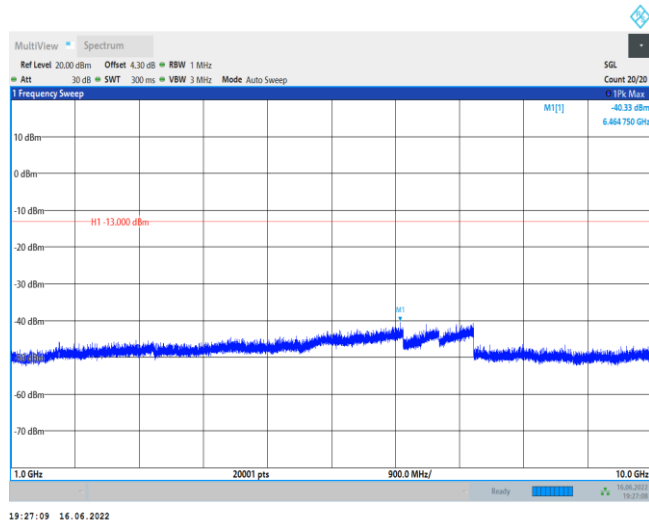


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Band5-4182-30~1000MHz



Band5-4182-1000~10000MHz

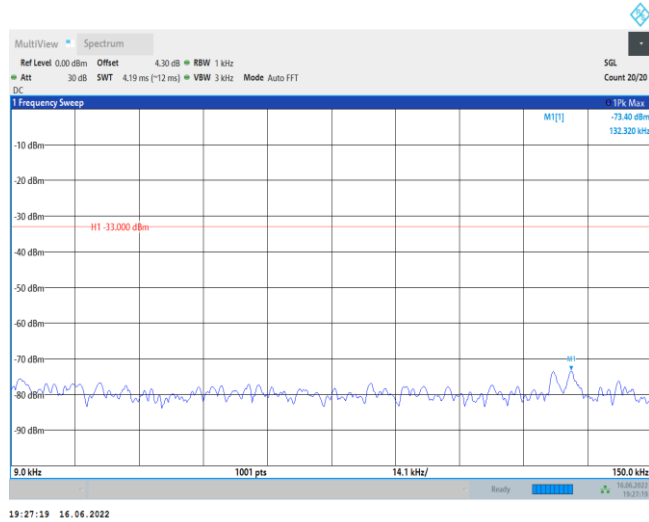


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Band5-4233-0.009~0.15MHz



19:27:19 16.06.2022

Band5-4233-0.15~30MHz



19:27:22 16.06.2022

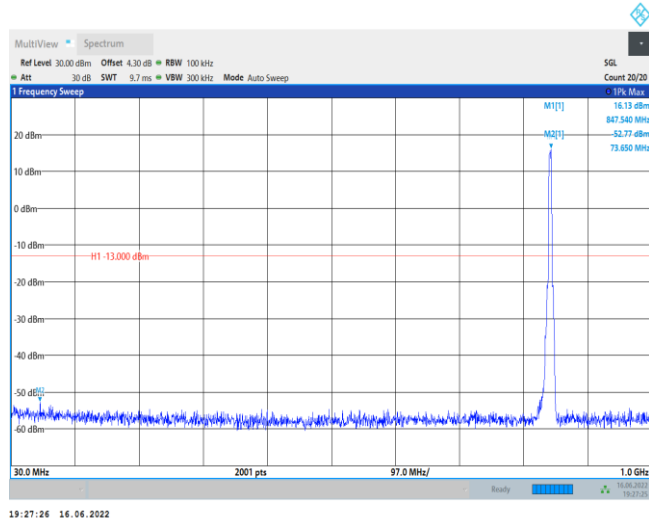


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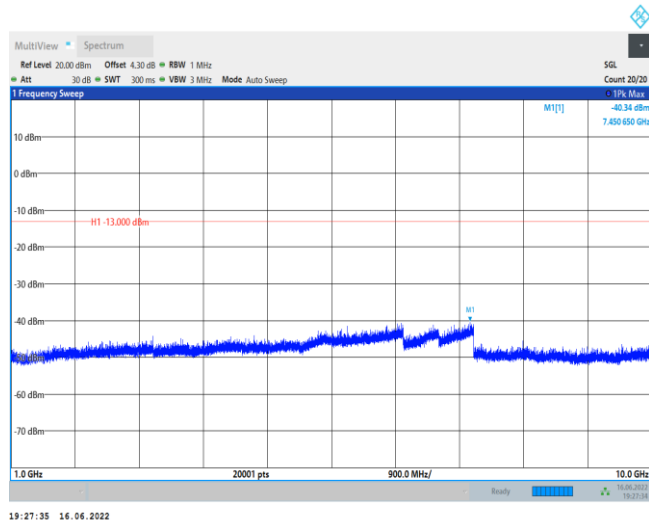
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Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.75	54.64	-110.79	-56.15	-13.00	43.15	155	140	Horizontal
2	5557.2000	49.82	-107.43	-57.61	-13.00	44.61	164	288	Horizontal
3	7409.6000	48.41	-102.16	-53.75	-13.00	40.75	198	334	Horizontal
4	9262.0000	45.22	-97.10	-51.88	-13.00	38.88	172	208	Horizontal
5	11114.4000	43.86	-94.05	-50.19	-13.00	37.19	236	104	Horizontal
6	14607	44.06	-90.58	-46.52	-13.00	33.52	251	24	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8000	50.30	-110.79	-60.49	-13.00	47.49	175	324	Vertical
2	5557.2000	48.97	-107.43	-58.46	-13.00	45.46	194	198	Vertical
3	7409.6000	49.04	-102.16	-53.12	-13.00	40.12	163	301	Vertical
4	9262.0000	46.55	-97.10	-50.55	-13.00	37.55	254	289	Vertical
5	11114.4000	44.25	-94.05	-49.80	-13.00	36.80	172	311	Vertical
6	13701.75	45.57	-91.37	-45.80	-13.00	32.80	213	356	Vertical



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 sgs.china@sgs.com

Test Band = WCDMA Band II_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3761.25	53.45	-110.83	-57.38	-13.00	44.38	152	138	Horizontal
2	5640.0000	50.33	-107.08	-56.75	-13.00	43.75	263	231	Horizontal
3	7520.0000	47.78	-101.93	-54.15	-13.00	41.15	299	1	Horizontal
4	9400.0000	46.15	-96.60	-50.45	-13.00	37.45	145	311	Horizontal
5	11280.0000	43.99	-93.56	-49.57	-13.00	36.57	175	94	Horizontal
6	13702.5	45.62	-91.37	-45.75	-13.00	32.75	211	117	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	51.33	-110.83	-59.50	-13.00	46.50	233	300	Vertical
2	5640.0000	48.82	-107.08	-58.26	-13.00	45.26	201	323	Vertical
3	7520.0000	48.84	-101.93	-53.09	-13.00	40.09	145	356	Vertical
4	9400.0000	46.76	-96.60	-49.84	-13.00	36.84	194	356	Vertical
5	11280.0000	43.86	-93.56	-49.70	-13.00	36.70	172	116	Vertical
6	12670.5	45.94	-92.81	-46.87	-13.00	33.87	180	197	Vertical



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Test Band = WCDMA Band II_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813.75	55.89	-110.87	-54.98	-13.00	41.98	228	267	Horizontal
2	5722.8000	49.84	-106.62	-56.78	-13.00	43.78	194	198	Horizontal
3	7630.0000	48.31	-101.80	-53.49	-13.00	40.49	172	187	Horizontal
4	9538.0000	44.76	-96.82	-52.06	-13.00	39.06	256	324	Horizontal
5	11445.6000	41.99	-93.54	-51.55	-13.00	38.55	230	0	Horizontal
6	14491.5	44.85	-90.08	-45.23	-13.00	32.23	148	117	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3816.75	54.17	-110.87	-56.70	-13.00	43.70	111	289	Vertical
2	5722.8000	49.61	-106.62	-57.01	-13.00	44.01	174	218	Vertical
3	7630.0000	47.73	-101.80	-54.07	-13.00	41.07	155	184	Vertical
4	9538.0000	44.17	-96.82	-52.65	-13.00	39.65	236	208	Vertical
5	11445.6000	43.26	-93.54	-50.28	-13.00	37.28	191	6	Vertical
6	14526	44.28	-90.23	-45.95	-13.00	32.95	105	104	Vertical



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Test Band = WCDMA Band IV_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8000	51.89	-112.08	-60.19	-13.00	47.19	228	0	Horizontal
2	5137.2000	48.91	-107.64	-58.73	-13.00	45.73	194	36	Horizontal
3	6849.6000	50.58	-103.50	-52.92	-13.00	39.92	163	266	Horizontal
4	8562.0000	48.07	-99.03	-50.96	-13.00	37.96	222	7	Horizontal
5	10274.4000	44.65	-95.62	-50.97	-13.00	37.97	236	184	Horizontal
6	11257.5	46.77	-93.56	-46.79	-13.00	33.79	201	82	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8000	51.72	-112.08	-60.36	-13.00	47.36	169	124	Vertical
2	5137.2000	49.30	-107.64	-58.34	-13.00	45.34	148	171	Vertical
3	6849.6000	50.44	-103.50	-53.06	-13.00	40.06	175	193	Vertical
4	8562.0000	46.36	-99.03	-52.67	-13.00	39.67	188	30	Vertical
5	10274.4000	43.79	-95.62	-51.83	-13.00	38.83	142	67	Vertical
6	12876	46.81	-92.60	-45.79	-13.00	32.79	190	78	Vertical



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Test Band = WCDMA Band IV_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2000	51.67	-112.04	-60.37	-13.00	47.37	144	0	Horizontal
2	5197.8000	51.27	-107.55	-56.28	-13.00	43.28	215	141	Horizontal
3	6930.4000	49.74	-103.19	-53.45	-13.00	40.45	194	130	Horizontal
4	8663.0000	46.85	-98.96	-52.11	-13.00	39.11	175	244	Horizontal
5	10395.6000	44.22	-95.41	-51.19	-13.00	38.19	232	325	Horizontal
6	13772.25	46.90	-91.61	-44.71	-13.00	31.71	216	141	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2000	51.19	-112.04	-60.85	-13.00	47.85	184	2	Vertical
2	5197.8000	49.04	-107.55	-58.51	-13.00	45.51	175	335	Vertical
3	6930.4000	49.85	-103.19	-53.34	-13.00	40.34	194	356	Vertical
4	8663.0000	46.49	-98.96	-52.47	-13.00	39.47	162	185	Vertical
5	10395.6000	44.18	-95.41	-51.23	-13.00	38.23	233	1	Vertical
6	12827.25	45.80	-92.51	-46.71	-13.00	33.71	208	138	Vertical



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Test Band = WCDMA Band IV_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2000	51.77	-111.99	-60.22	-13.00	47.22	188	254	Horizontal
2	5257.8000	49.57	-107.49	-57.92	-13.00	44.92	194	220	Horizontal
3	7010.4000	49.15	-102.77	-53.62	-13.00	40.62	172	336	Horizontal
4	8763.0000	46.56	-98.65	-52.09	-13.00	39.09	255	26	Horizontal
5	10515.6000	44.15	-95.03	-50.88	-13.00	37.88	269	186	Horizontal
6	13714.5	45.86	-91.41	-45.55	-13.00	32.55	247	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2000	51.28	-111.99	-60.71	-13.00	47.71	125	279	Vertical
2	5257.8000	49.50	-107.49	-57.99	-13.00	44.99	194	0	Vertical
3	7010.4000	48.48	-102.77	-54.29	-13.00	41.29	172	164	Vertical
4	8763.0000	47.15	-98.65	-51.50	-13.00	38.50	230	119	Vertical
5	10515.6000	43.89	-95.03	-51.14	-13.00	38.14	163	198	Vertical
6	13714.5	46.47	-91.41	-44.94	-13.00	31.94	194	130	Vertical



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Test Band = WCDMA Band V_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1651.4286	60.41	-118.11	-57.70	-13.00	44.70	125	24	Horizontal
2	2479.2000	55.30	-114.86	-59.56	-13.00	46.56	148	257	Horizontal
3	3305.6000	55.18	-112.38	-57.20	-13.00	44.20	175	217	Horizontal
4	4132.0000	50.61	-110.18	-59.57	-13.00	46.57	198	328	Horizontal
5	4958.4000	50.80	-108.21	-57.41	-13.00	44.41	173	360	Horizontal
6	7390.8571	52.21	-102.04	-49.83	-13.00	36.83	142	236	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1651.4286	60.68	-118.11	-57.43	-13.00	44.43	284	24	Vertical
2	2479.2000	52.12	-114.86	-62.74	-13.00	49.74	194	245	Vertical
3	3305.6000	51.79	-112.38	-60.59	-13.00	47.59	172	215	Vertical
4	4132.0000	49.91	-110.18	-60.27	-13.00	47.27	230	0	Vertical
5	4958.4000	51.07	-108.21	-57.14	-13.00	44.14	236	206	Vertical
6	6788.5714	52.38	-103.56	-51.18	-13.00	38.18	166	94	Vertical



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Test Band = WCDMA Band V_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1671.4286	63.06	-118.08	-55.02	-13.00	42.02	184	236	Horizontal
2	2509.2000	52.76	-114.69	-61.93	-13.00	48.93	175	256	Horizontal
3	3345.6000	52.86	-112.38	-59.52	-13.00	46.52	192	226	Horizontal
4	4182.0000	50.65	-110.14	-59.49	-13.00	46.49	251	63	Horizontal
5	5018.4000	50.77	-108.10	-57.33	-13.00	44.33	142	154	Horizontal
6	7972.5714	52.09	-100.84	-48.75	-13.00	35.75	222	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1674.2857	57.16	-118.07	-60.91	-13.00	47.91	174	226	Vertical
2	2509.2000	52.58	-114.69	-62.11	-13.00	49.11	285	9	Vertical
3	3345.6000	51.53	-112.38	-60.85	-13.00	47.85	296	217	Vertical
4	4182.0000	50.37	-110.14	-59.77	-13.00	46.77	234	287	Vertical
5	5018.4000	50.09	-108.10	-58.01	-13.00	45.01	184	187	Vertical
6	6805.1429	52.50	-103.54	-51.04	-13.00	38.04	141	357	Vertical



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Test Band = WCDMA Band V_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1692	60.00	-118.04	-58.04	-13.00	45.04	228	244	Horizontal
2	2536.5714	57.84	-114.51	-56.67	-13.00	43.67	147	255	Horizontal
3	3386.4000	50.82	-112.37	-61.55	-13.00	48.55	231	82	Horizontal
4	4233.0000	49.96	-109.99	-60.03	-13.00	47.03	161	13	Horizontal
5	5079.6000	49.48	-107.80	-58.32	-13.00	45.32	158	359	Horizontal
6	7332	51.57	-102.14	-50.57	-13.00	37.57	172	164	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1690.8571	55.88	-118.04	-62.16	-13.00	49.16	233	43	Vertical
2	2539.8000	52.89	-114.49	-61.60	-13.00	48.60	194	0	Vertical
3	3386.4000	50.89	-112.37	-61.48	-13.00	48.48	172	247	Vertical
4	4233.0000	51.69	-109.99	-58.30	-13.00	45.30	185	186	Vertical
5	5079.6000	49.51	-107.80	-58.29	-13.00	45.29	213	95	Vertical
6	8078.8571	49.54	-100.01	-50.47	-13.00	37.47	263	238	Vertical



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Frequency Stability

Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	VL	NT	-12.01	-0.006388	PASS
Band2	9400	VN	NT	-10.18	-0.005415	PASS
Band2	9400	VH	NT	-13.92	-0.007404	PASS
Band4	1413	VL	NT	-12.28	-0.007088	PASS
Band4	1413	VN	NT	-15.73	-0.009079	PASS
Band4	1413	VH	NT	-15.12	-0.008727	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	VL	NT	-12.48	-0.014921	±2.5	PASS
Band5	4182	VN	NT	-12.44	-0.014873	±2.5	PASS
Band5	4182	VH	NT	-11.95	-0.014287	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9400	NV	-30	-14.23	-0.007569	PASS
Band2	9400	NV	-20	-16.32	-0.008681	PASS
Band2	9400	NV	0	-17.31	-0.009207	PASS
Band2	9400	NV	10	-10.46	-0.005564	PASS
Band2	9400	NV	20	-7.49	-0.003984	PASS
Band2	9400	NV	30	-8.64	-0.004596	PASS
Band2	9400	NV	40	-9.20	-0.004894	PASS
Band2	9400	NV	50	-9.90	-0.005266	PASS
Band4	1413	NV	-30	-12.92	-0.007457	PASS
Band4	1413	NV	-20	-16.25	-0.009379	PASS
Band4	1413	NV	0	-13.62	-0.007861	PASS
Band4	1413	NV	10	-11.91	-0.006874	PASS
Band4	1413	NV	20	-15.42	-0.008900	PASS
Band4	1413	NV	30	-13.54	-0.007815	PASS
Band4	1413	NV	40	-11.54	-0.006661	PASS
Band4	1413	NV	50	-15.81	-0.009125	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	NV	-30	-10.75	-0.012853	±2.5	PASS
Band5	4182	NV	-20	-11.01	-0.013164	±2.5	PASS
Band5	4182	NV	0	-10.75	-0.012853	±2.5	PASS
Band5	4182	NV	10	-9.85	-0.011777	±2.5	PASS
Band5	4182	NV	20	-10.47	-0.012518	±2.5	PASS
Band5	4182	NV	30	-10.66	-0.012745	±2.5	PASS
Band5	4182	NV	40	-12.20	-0.014586	±2.5	PASS
Band5	4182	NV	50	-7.90	-0.009445	±2.5	PASS

The End



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