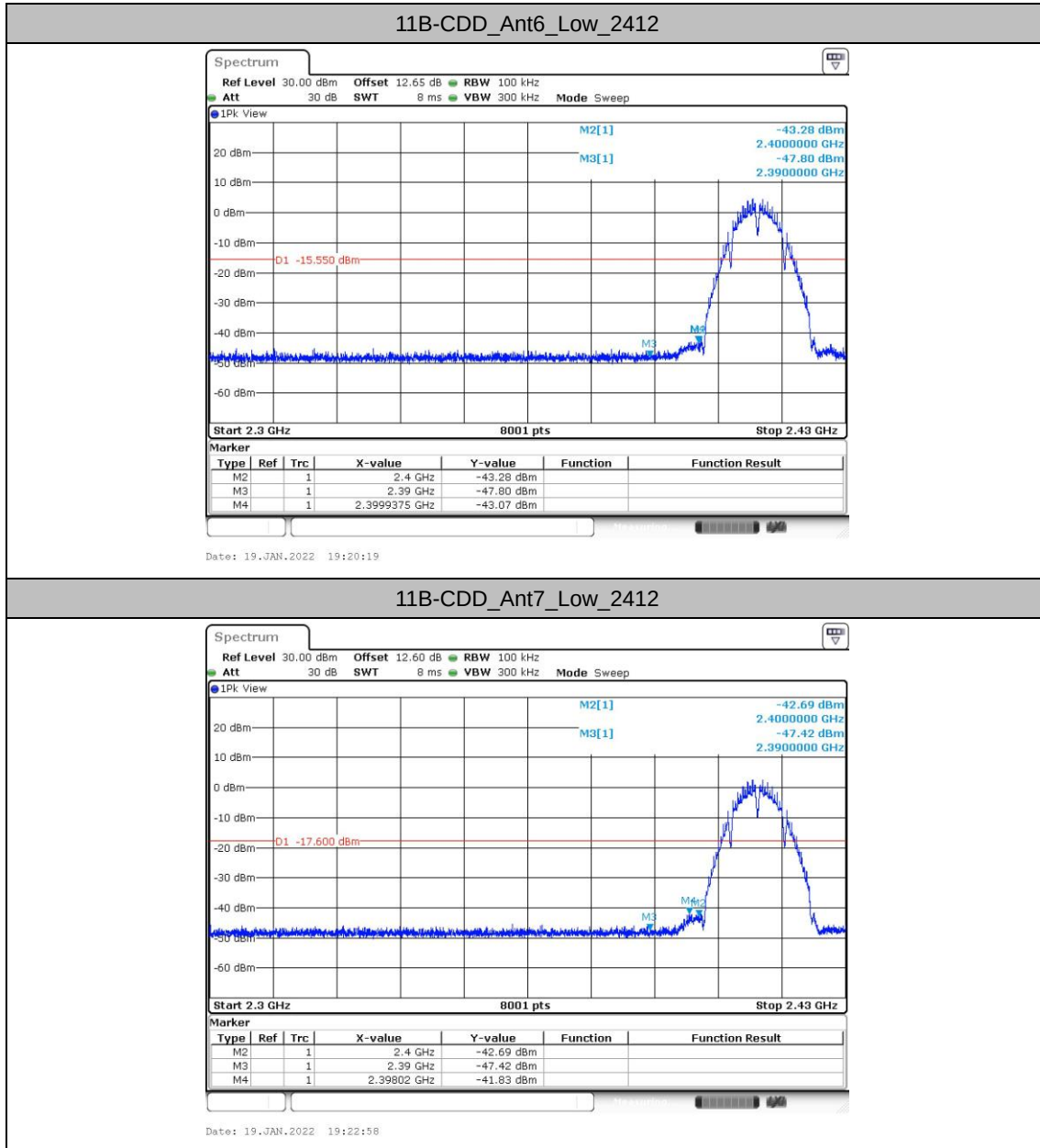


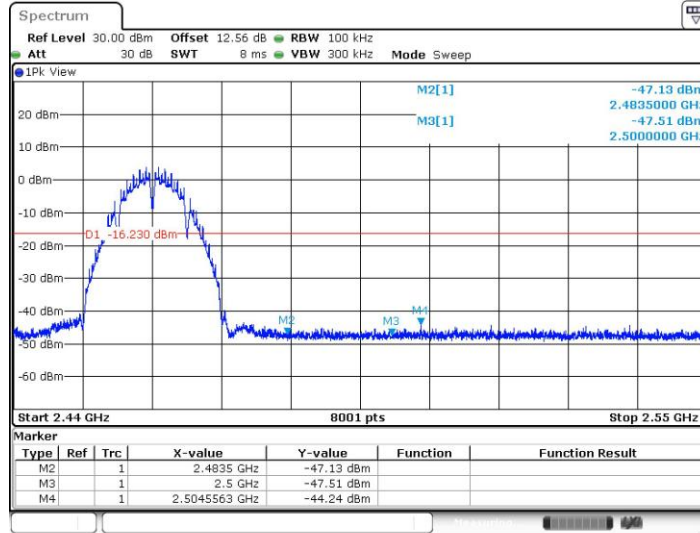


Test Graphs



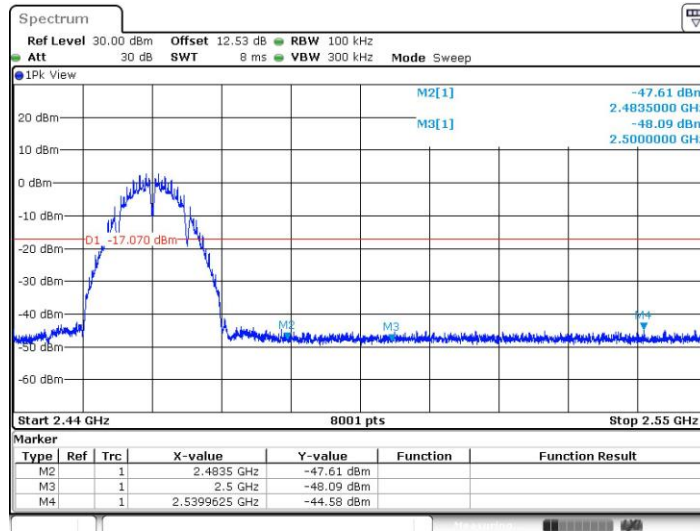


11B-CDD_Ant6_High_2462



Date: 19.JAN.2022 19:31:55

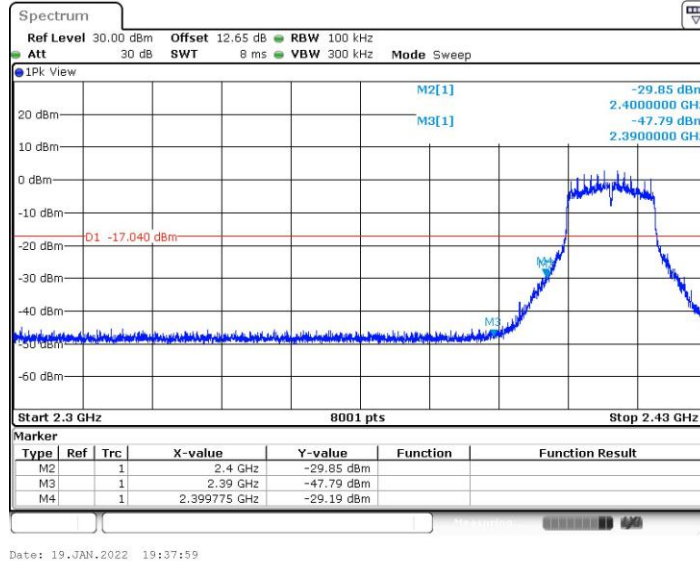
11B-CDD_Ant7_High_2462



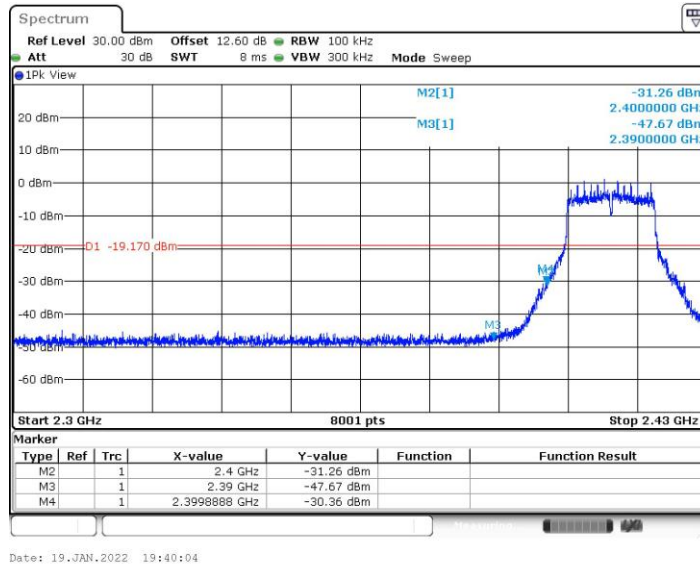
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11G-CDD_Ant6_Low_2412

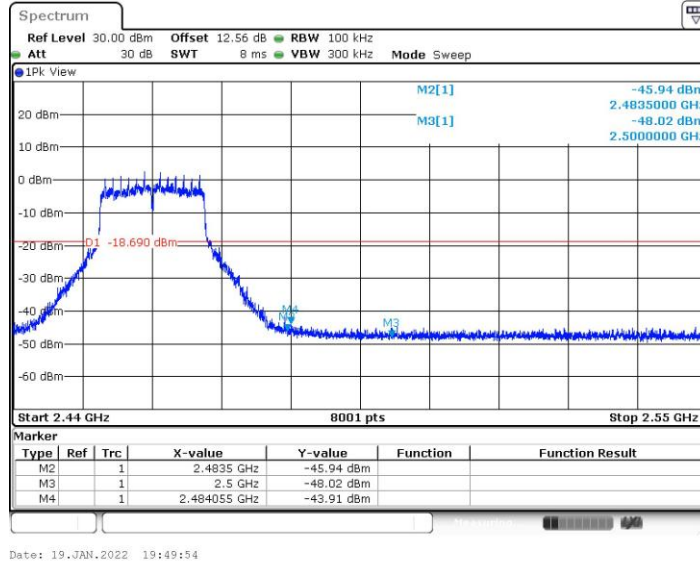


11G-CDD_Ant7_Low_2412

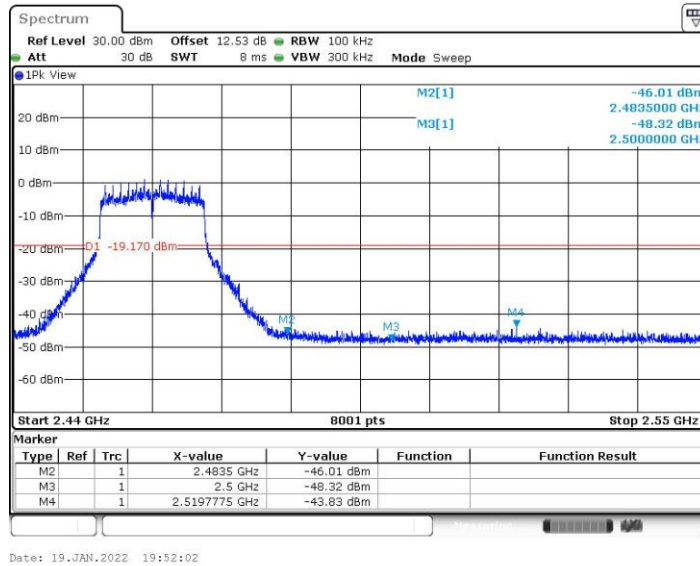




11G-CDD_Ant6_High_2462

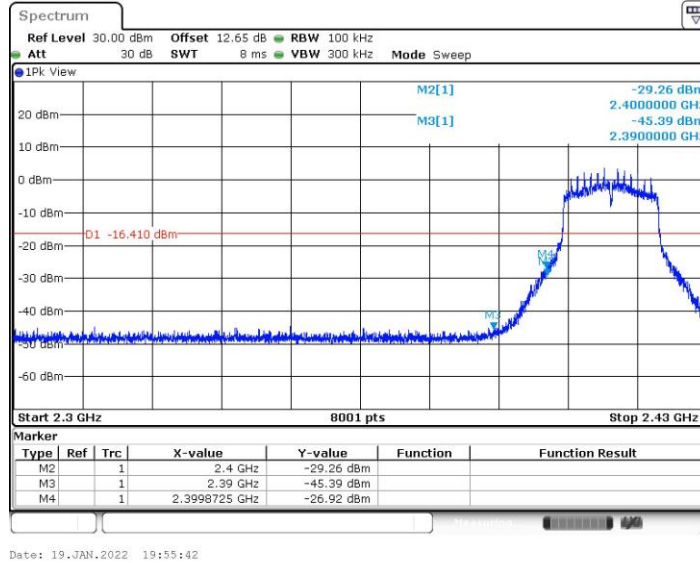


11G-CDD_Ant7_High_2462

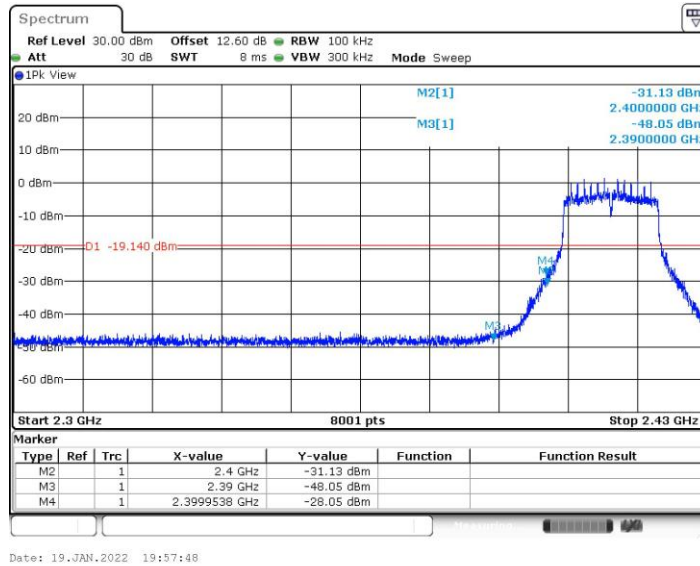




11N20CDD_Ant6_Low_2412

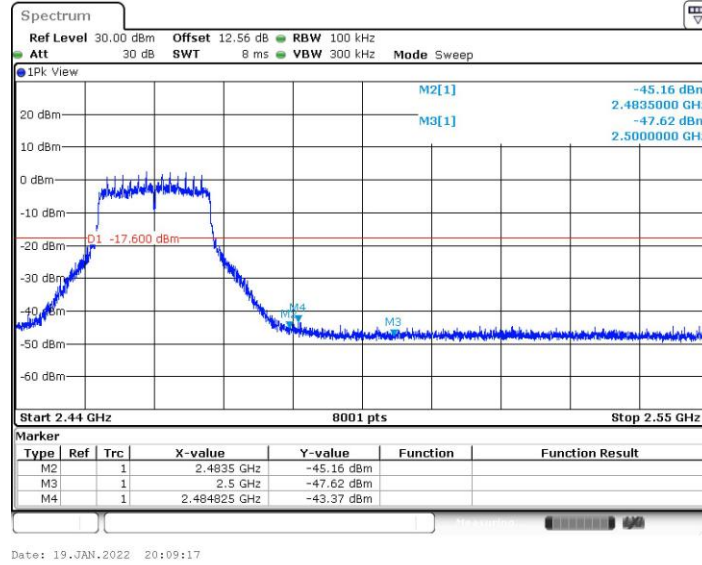


11N20CDD_Ant7_Low_2412

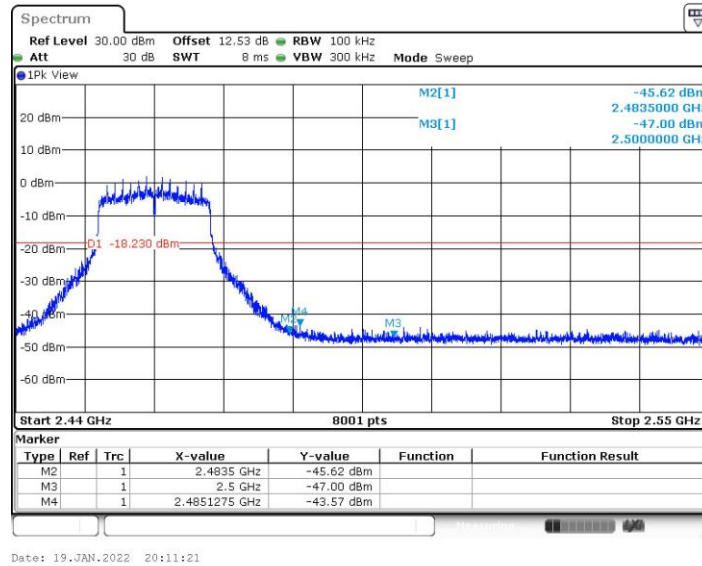




11N20CDD_Ant6_High_2462



11N20CDD_Ant7_High_2462





Conducted Spurious Emission

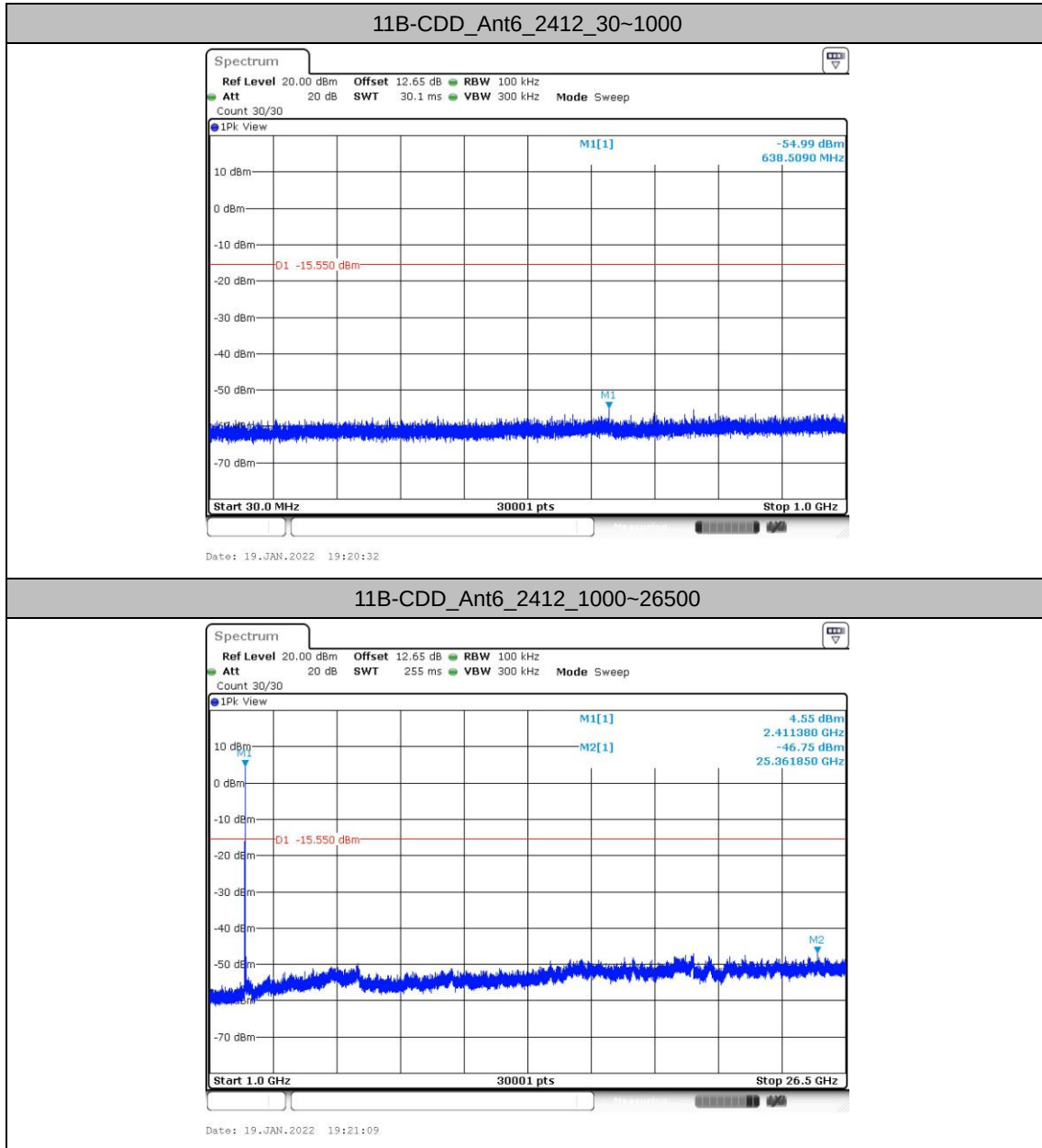
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant6	2412	30~1000	4.45	-54.99	≤-15.55	PASS
			1000~26500	4.45	-46.75	≤-15.55	PASS
	Ant7	2412	30~1000	2.40	-56.1	≤-17.6	PASS
			1000~26500	2.40	-46.72	≤-17.6	PASS
	Ant6	2437	30~1000	4.22	-56.14	≤-15.78	PASS
			1000~26500	4.22	-46.72	≤-15.78	PASS
	Ant7	2437	30~1000	2.55	-55.93	≤-17.45	PASS
			1000~26500	2.55	-47.03	≤-17.45	PASS
	Ant6	2462	30~1000	3.77	-55.68	≤-16.23	PASS
			1000~26500	3.77	-47.63	≤-16.23	PASS
	Ant7	2462	30~1000	2.93	-55.44	≤-17.07	PASS
			1000~26500	2.93	-47.27	≤-17.07	PASS
11G-CDD	Ant6	2412	30~1000	2.96	-55.34	≤-17.04	PASS
			1000~26500	2.96	-46.51	≤-17.04	PASS
	Ant7	2412	30~1000	0.83	-55.44	≤-19.17	PASS
			1000~26500	0.83	-47	≤-19.17	PASS
	Ant6	2437	30~1000	2.23	-55.88	≤-17.77	PASS
			1000~26500	2.23	-47.44	≤-17.77	PASS
	Ant7	2437	30~1000	-0.01	-56.36	≤-20.01	PASS
			1000~26500	-0.01	-46.48	≤-20.01	PASS
	Ant6	2462	30~1000	1.31	-56.06	≤-18.69	PASS
			1000~26500	1.31	-47.14	≤-18.69	PASS
	Ant7	2462	30~1000	0.83	-55.98	≤-19.17	PASS
			1000~26500	0.83	-47.13	≤-19.17	PASS
11N20CDD	Ant6	2412	30~1000	3.59	-55.89	≤-16.41	PASS
			1000~26500	3.59	-47.19	≤-16.41	PASS
	Ant7	2412	30~1000	0.86	-55.98	≤-19.14	PASS
			1000~26500	0.86	-47.3	≤-19.14	PASS
	Ant6	2437	30~1000	2.42	-55.62	≤-17.58	PASS
			1000~26500	2.42	-47.17	≤-17.58	PASS
	Ant7	2437	30~1000	1.21	-55.62	≤-18.79	PASS
			1000~26500	1.21	-47.41	≤-18.79	PASS
	Ant6	2462	30~1000	2.40	-55.71	≤-17.6	PASS
			1000~26500	2.40	-47.35	≤-17.6	PASS
	Ant7	2462	30~1000	1.77	-55.9	≤-18.23	PASS
			30~1000	1.77	-55.9	≤-18.23	PASS



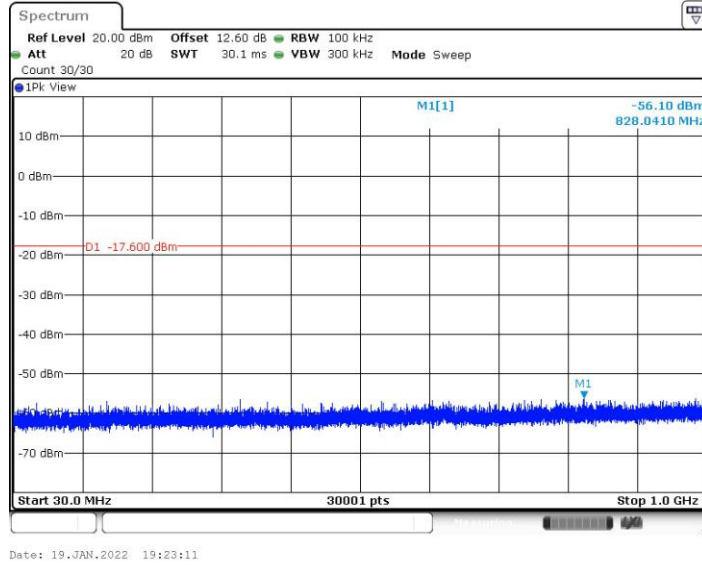
			1000~26500	1.77	-47.3	≤-18.23	PASS
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Test Graphs

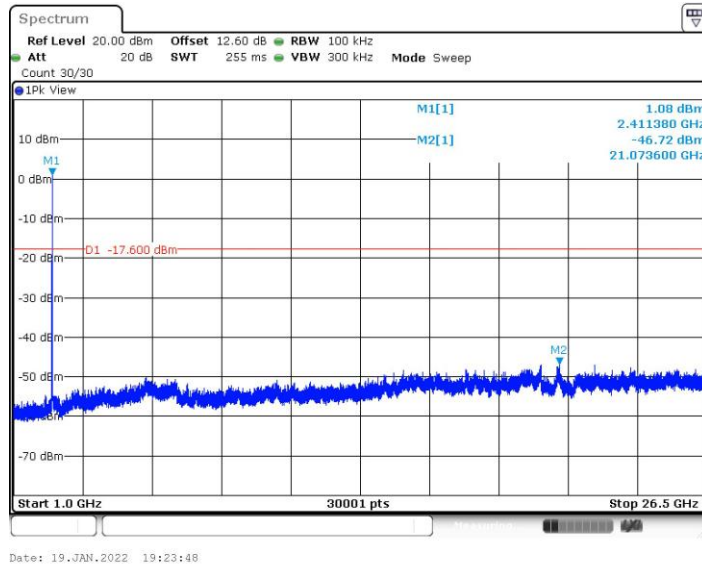




11B-CDD_Ant7_2412_30~1000

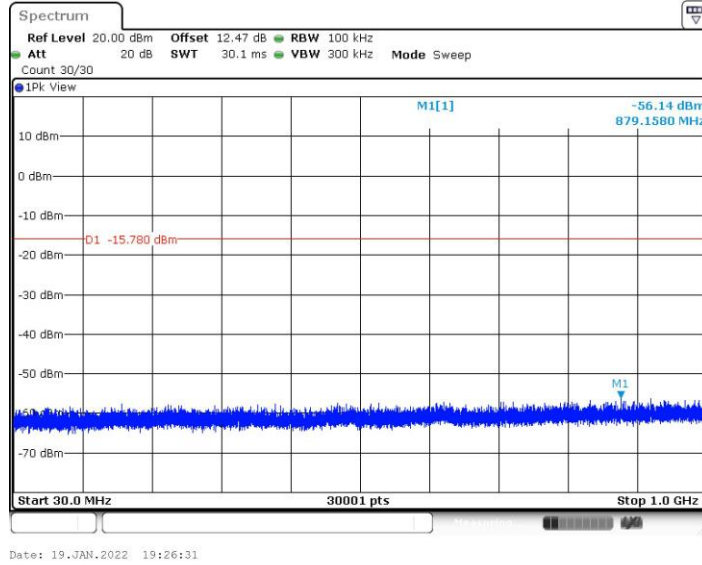


11B-CDD_Ant7_2412_1000~26500

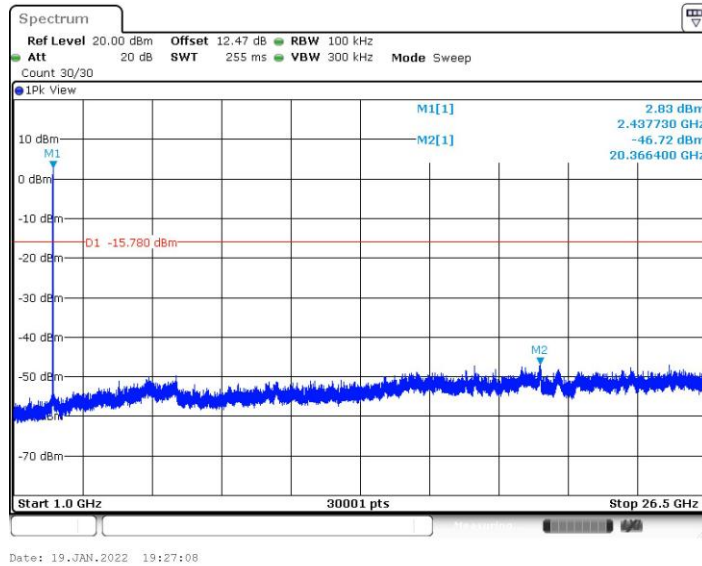




11B-CDD_Ant6_2437_30~1000

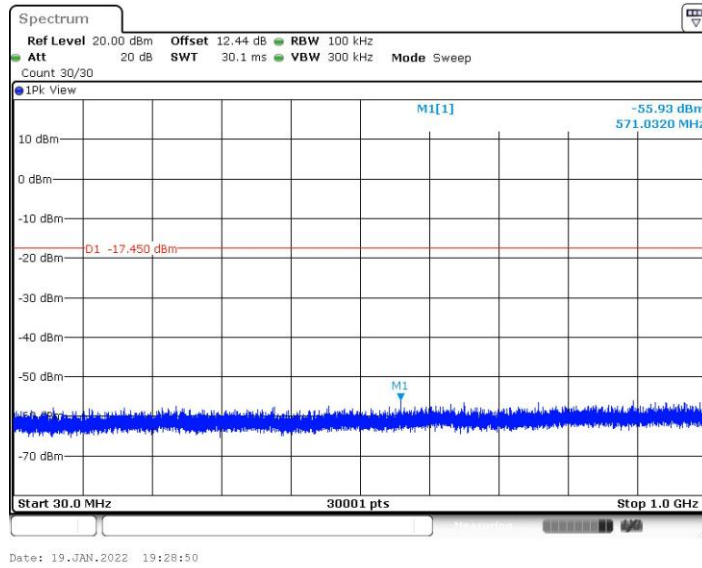


11B-CDD_Ant6_2437_1000~26500

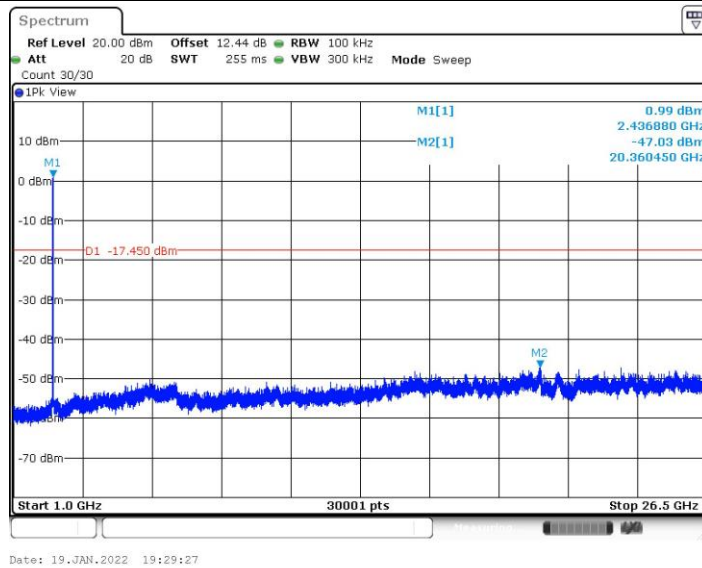




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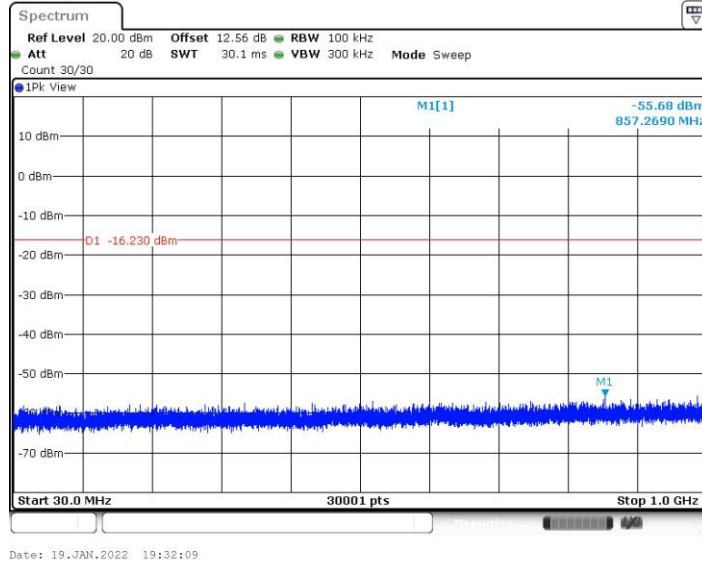


11B-CDD_Ant7_2437_1000~26500

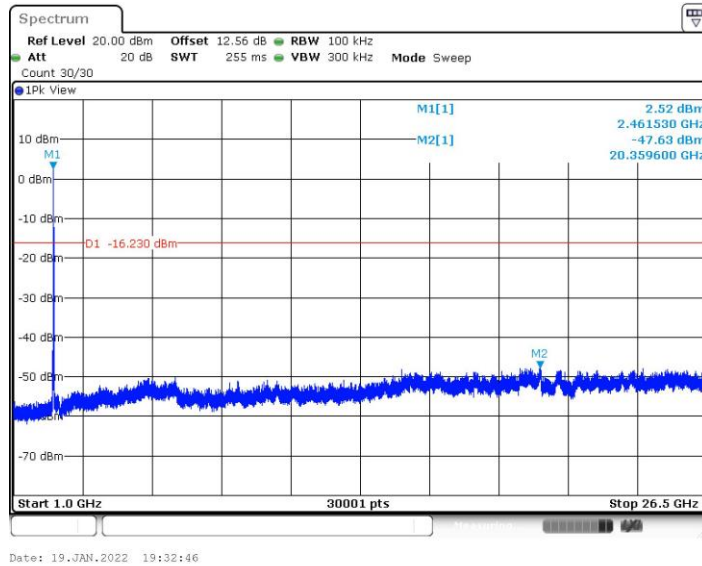




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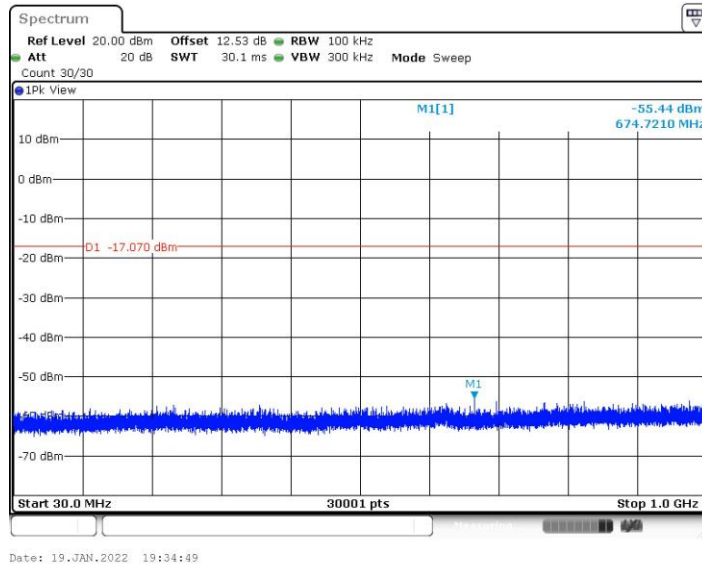


11B-CDD_Ant6_2462_1000~26500

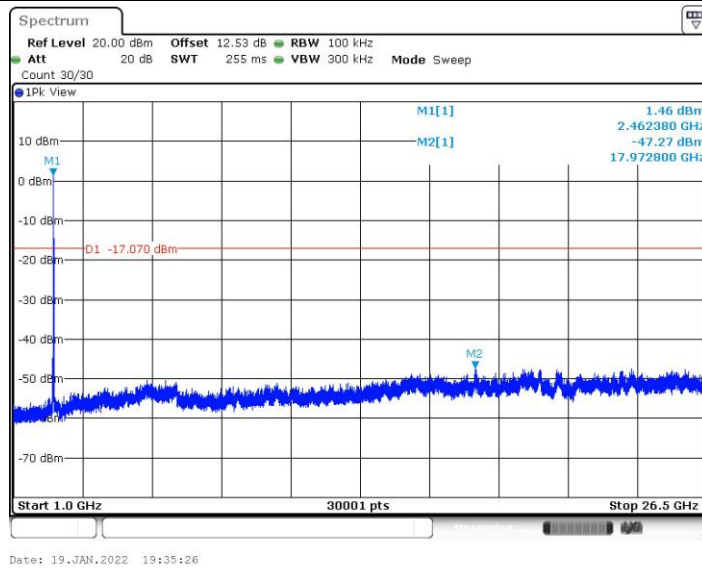




11B-CDD_Ant7_2462_30~1000

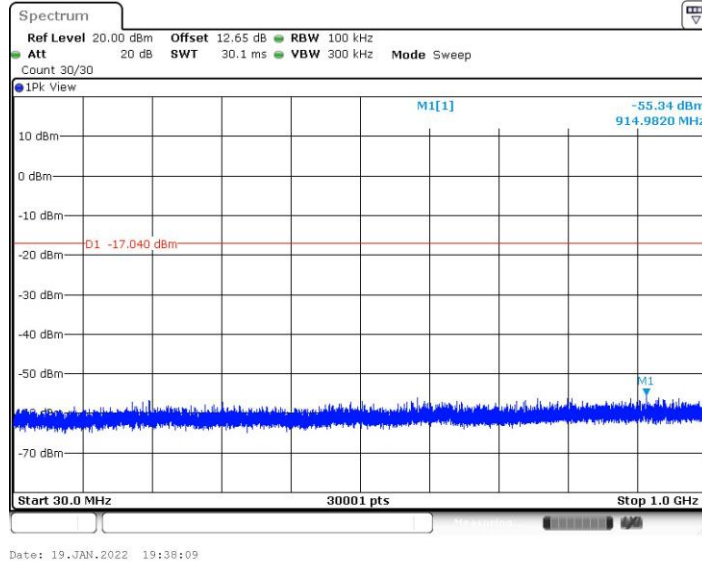


11B-CDD_Ant7_2462_1000~26500

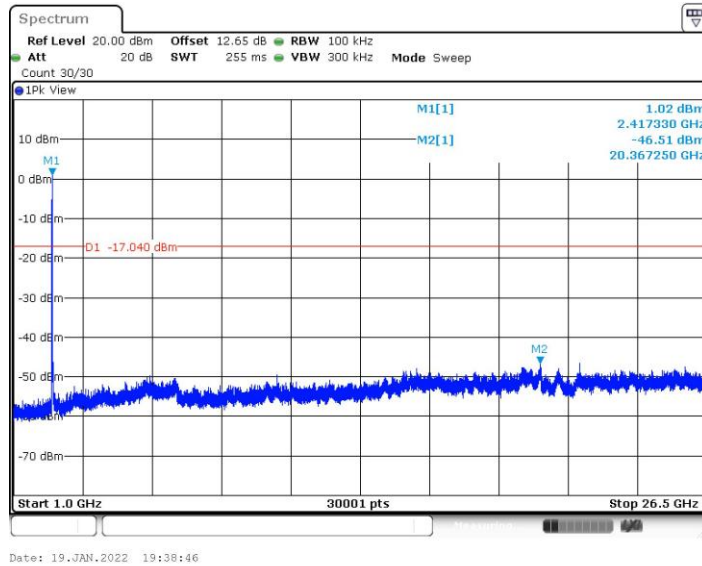




11G-CDD_Ant6_2412_30~1000

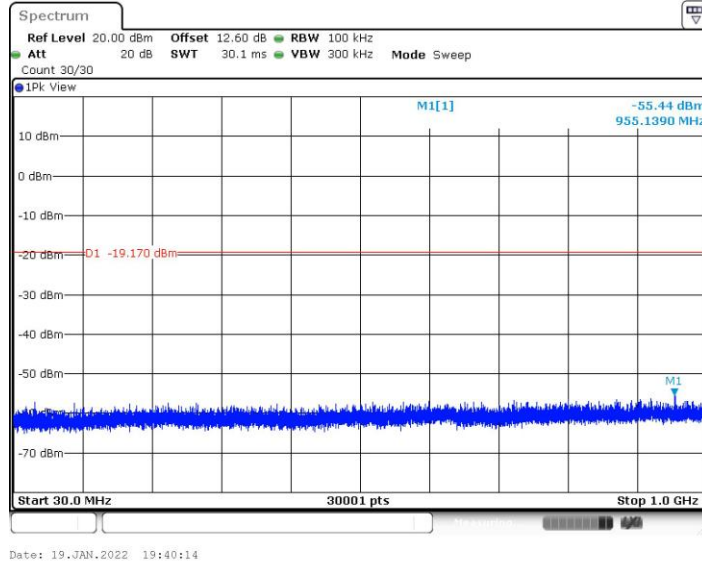


11G-CDD_Ant6_2412_1000~26500

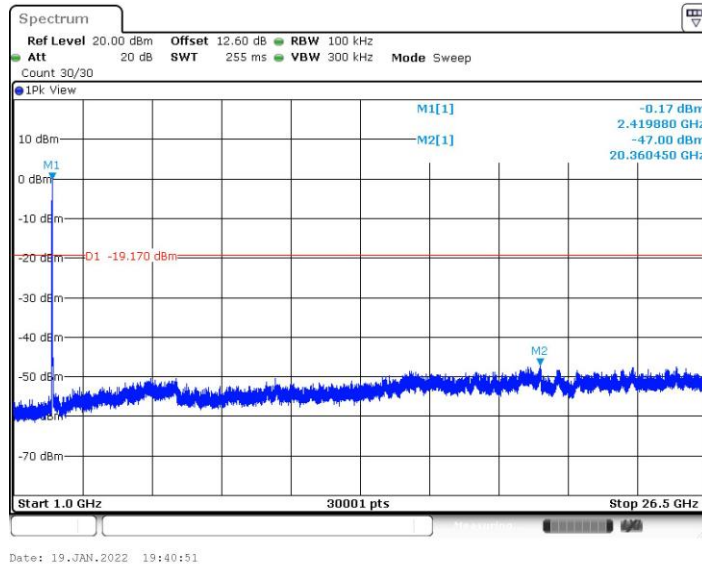




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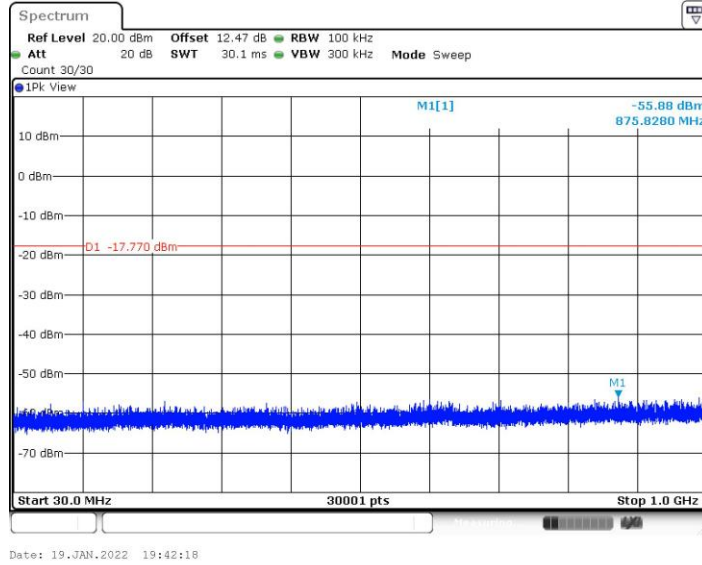


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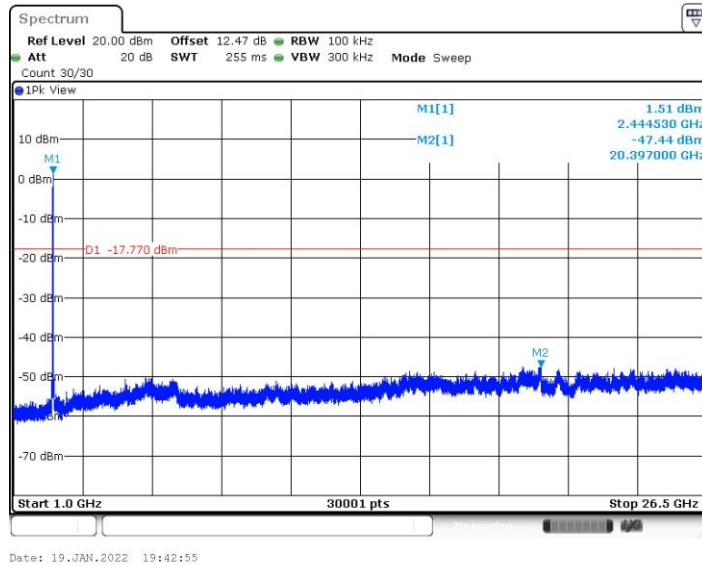




11G-CDD_Ant6_2437_30~1000

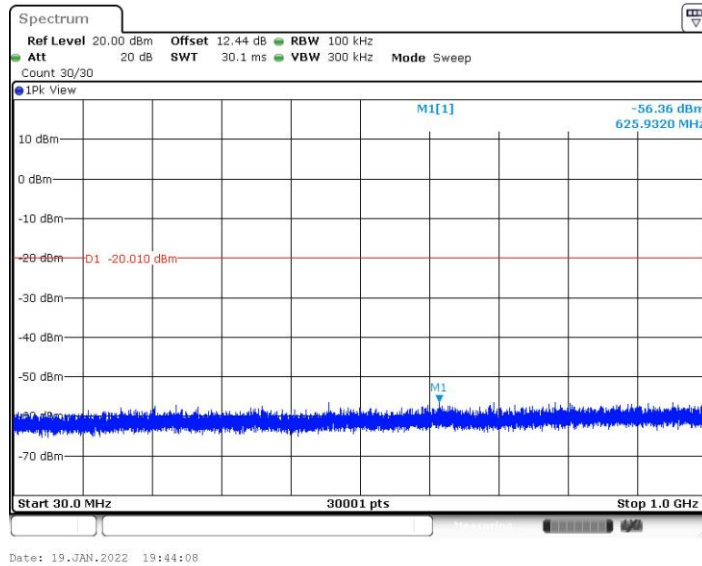


11G-CDD_Ant6_2437_1000~26500

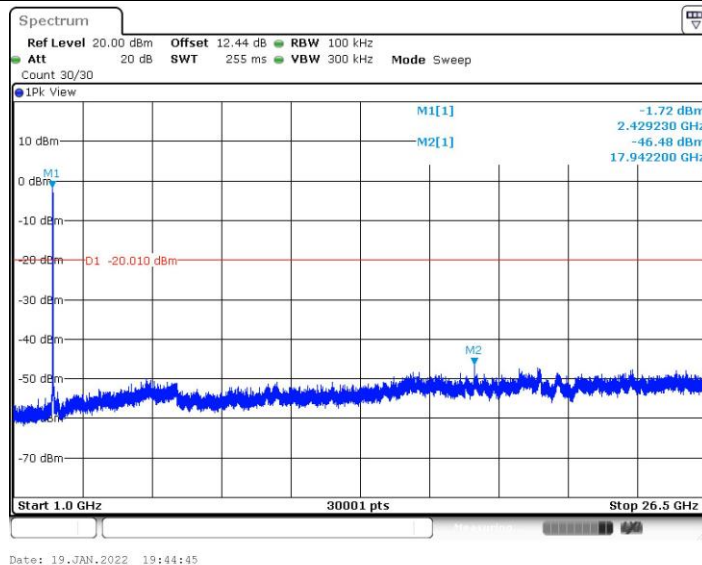




11G-CDD_Ant7_2437_30~1000

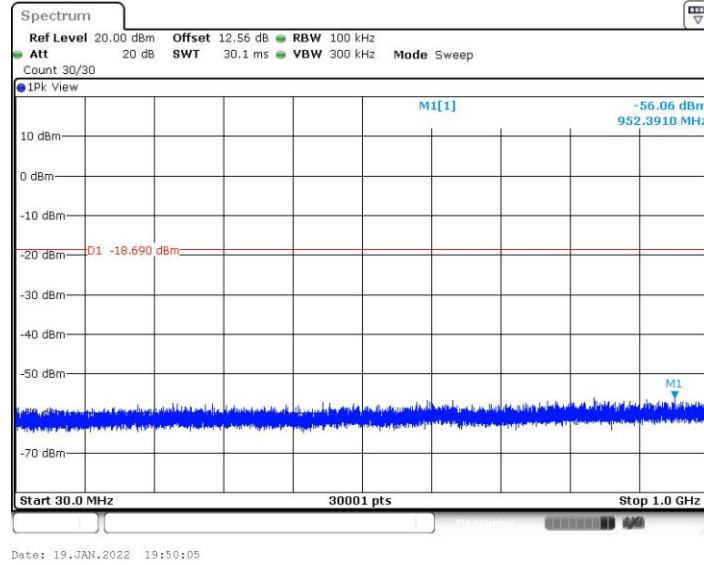


11G-CDD_Ant7_2437_1000~26500

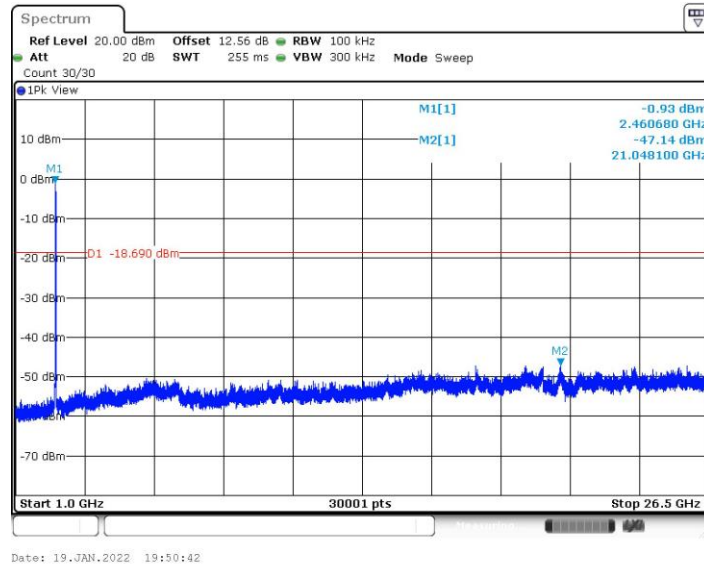




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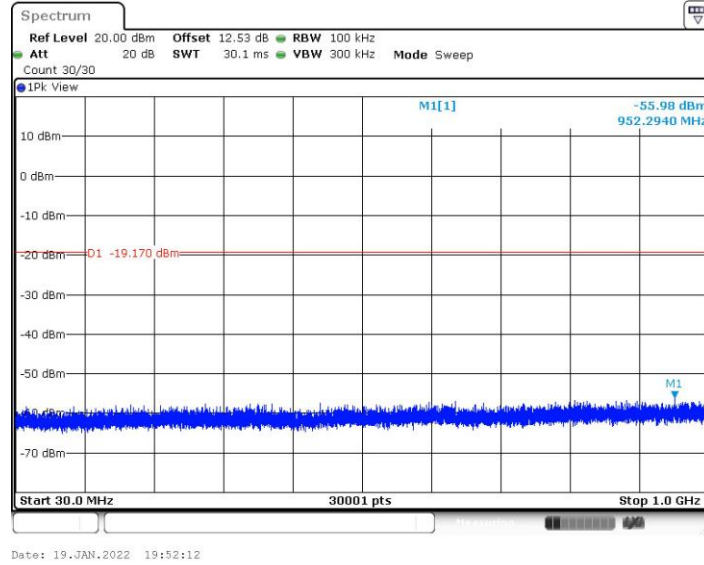


11G-CDD_Ant6_2462_1000~26500

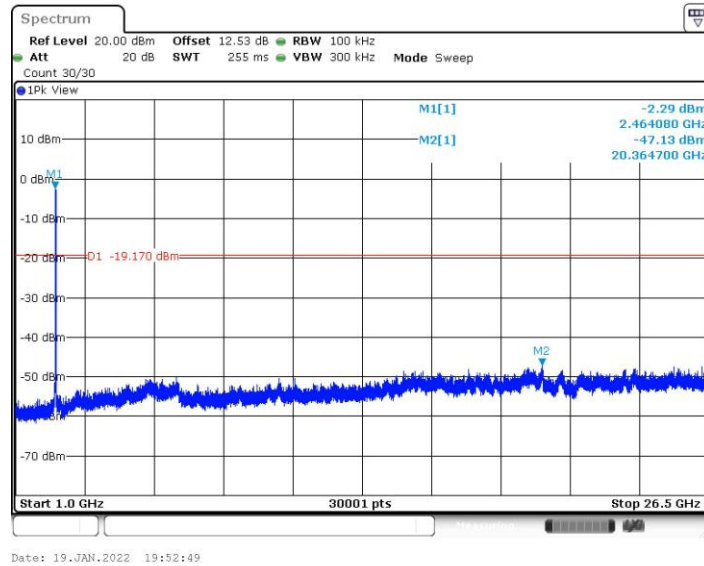




11G-CDD_Ant7_2462_30~1000

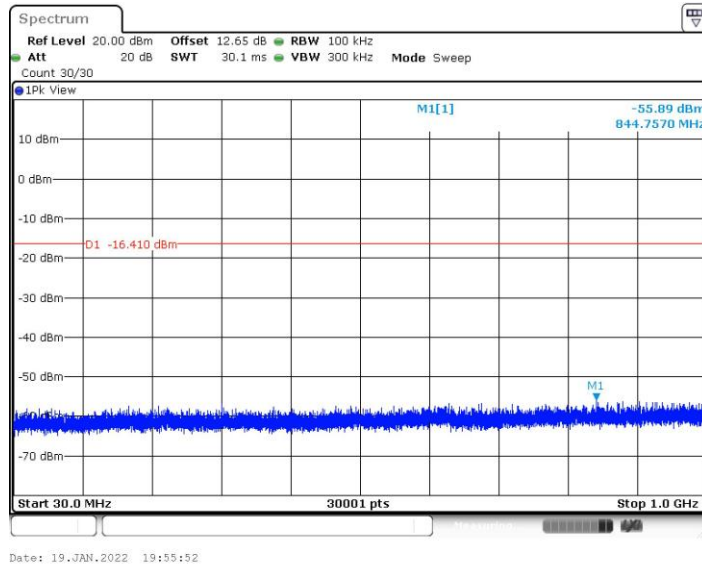


11G-CDD_Ant7_2462_1000~26500

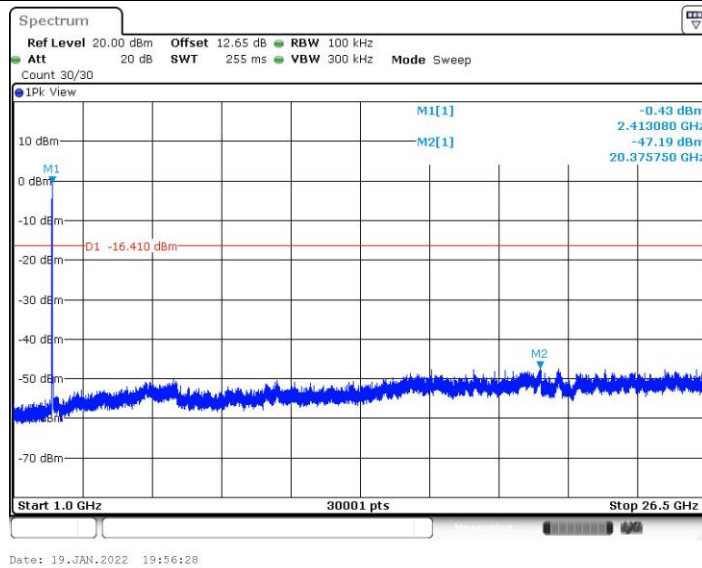




11N20CDD_Ant6_2412_30~1000

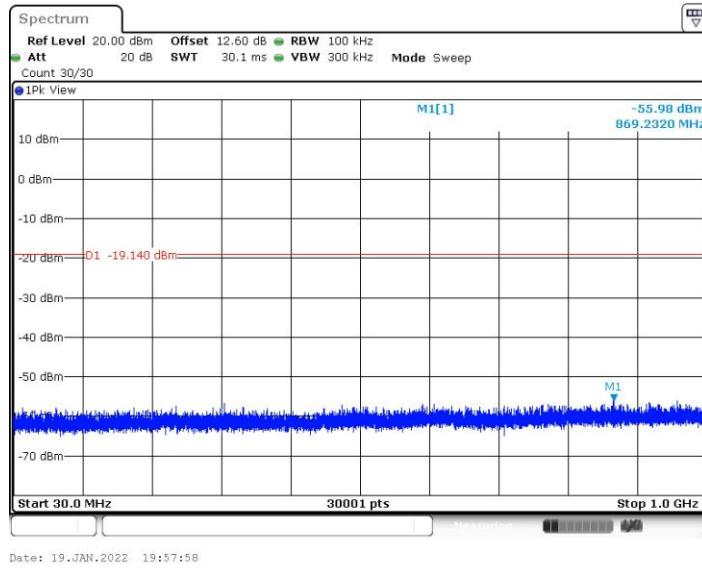


11N20CDD_Ant6_2412_1000~26500

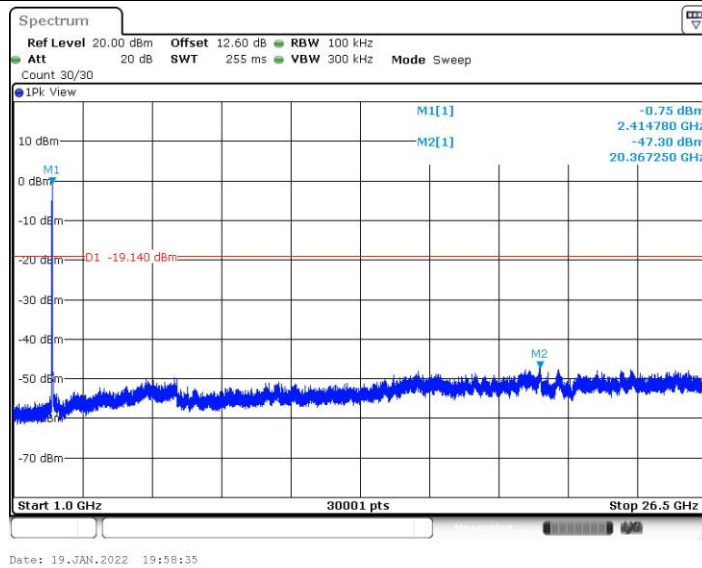




11N20CDD_Ant7_2412_30~1000

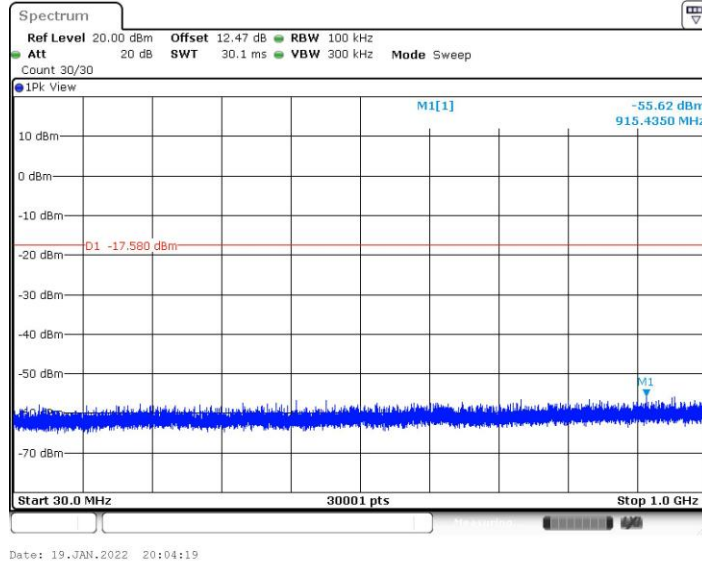


11N20CDD_Ant7_2412_1000~26500

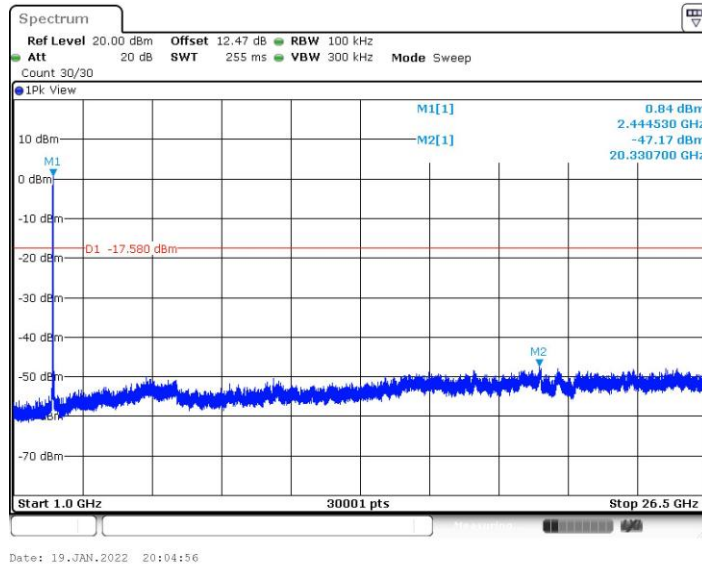




11N20CDD_Ant6_2437_30~1000

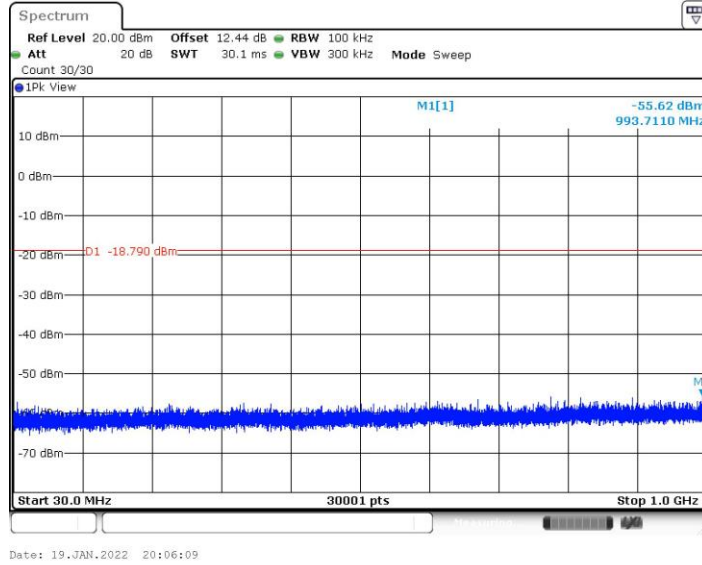


11N20CDD_Ant6_2437_1000~26500

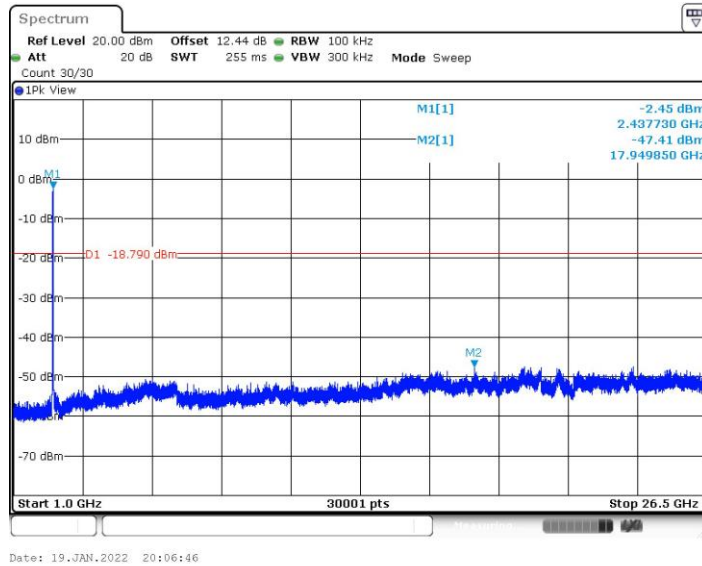




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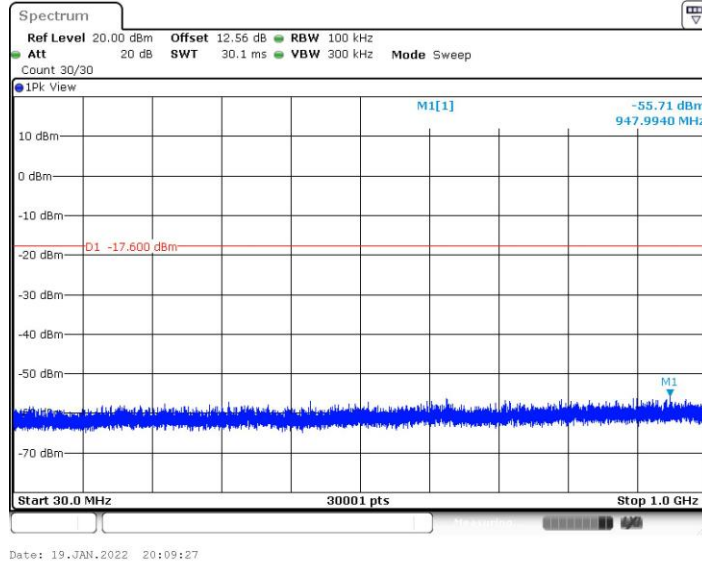


11N20CDD_Ant7_2437_1000~26500

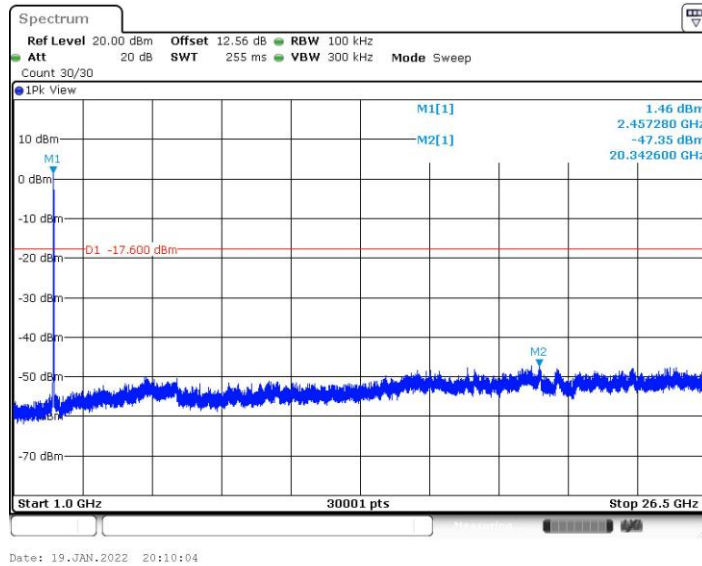




11N20CDD_Ant6_2462_30~1000

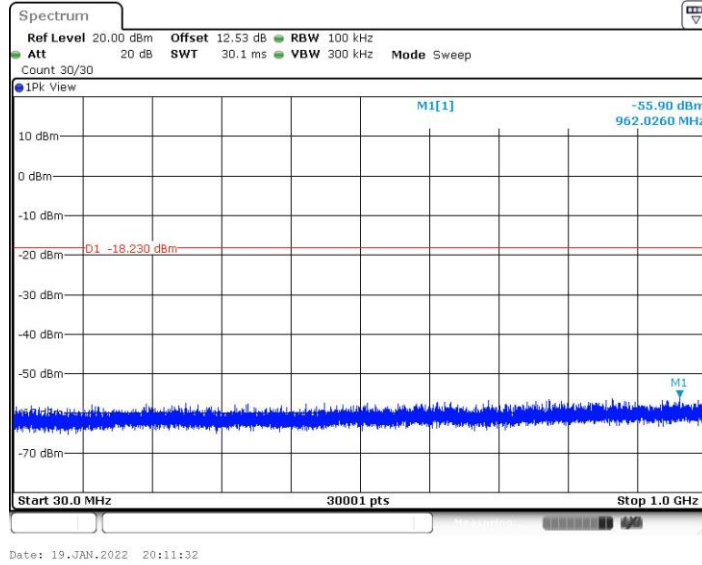


11N20CDD_Ant6_2462_1000~26500

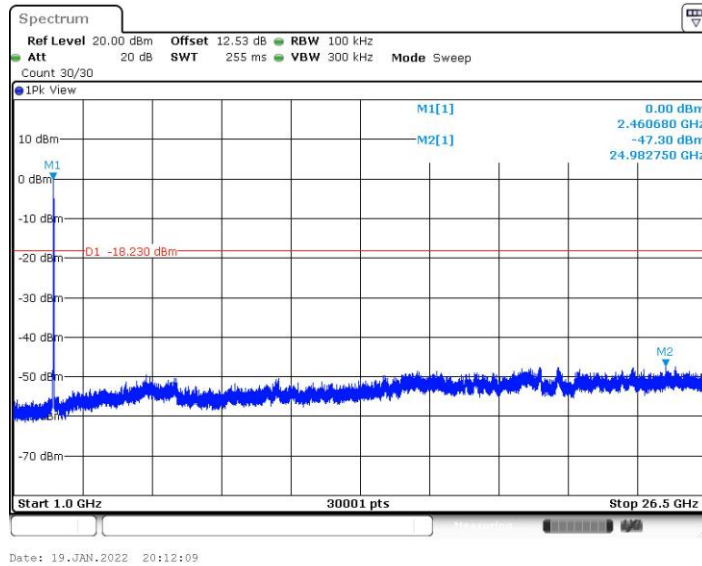




11N20CDD_Ant7_2462_30~1000



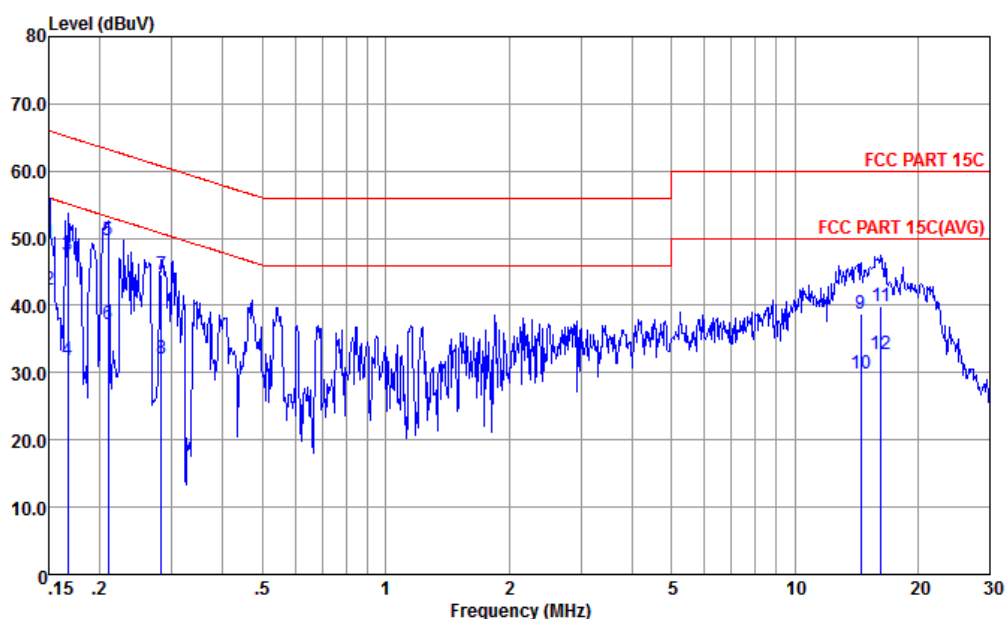
11N20CDD_Ant7_2462_1000~26500





Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

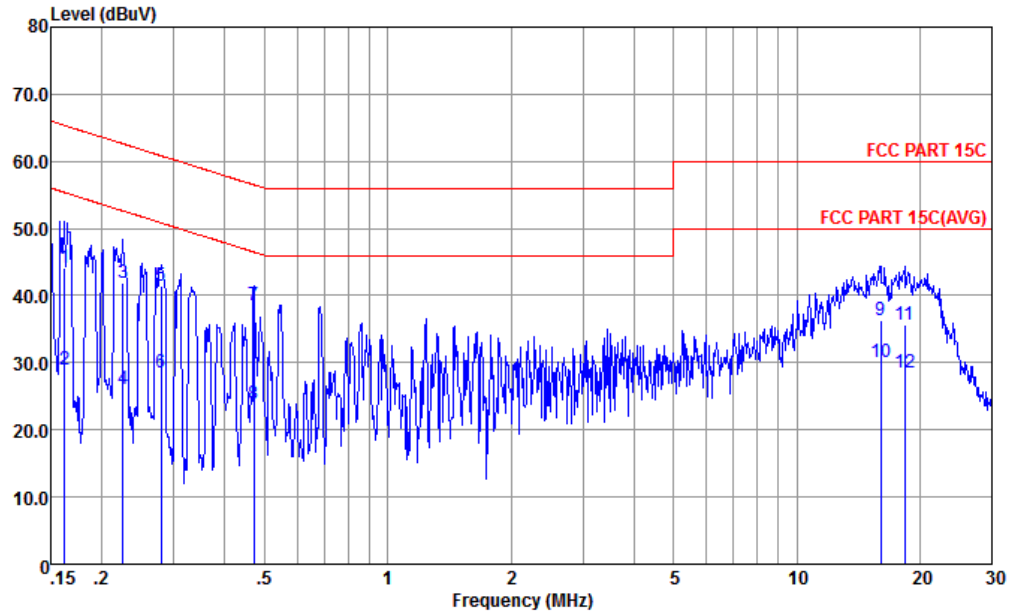


Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.150	49.30	-16.70	66.00	38.80	0.02	10.48	QP
2	0.150	42.40	-13.60	56.00	31.90	0.02	10.48	Average
3	0.167	47.36	-17.76	65.12	36.89	0.03	10.44	QP
4	0.167	31.76	-23.36	55.12	21.29	0.03	10.44	Average
5 *	0.209	49.70	-13.53	63.23	39.30	0.04	10.36	QP
6	0.209	37.30	-15.93	53.23	26.90	0.04	10.36	Average
7	0.283	44.58	-16.14	60.72	34.19	0.07	10.32	QP
8	0.283	31.98	-18.74	50.72	21.59	0.07	10.32	Average
9	14.517	38.89	-21.11	60.00	28.21	0.29	10.39	QP
10	14.517	29.89	-20.11	50.00	19.21	0.29	10.39	Average
11	16.226	39.97	-20.03	60.00	29.20	0.35	10.42	QP
12	16.226	32.67	-17.33	50.00	21.90	0.35	10.42	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.162	44.15	-21.19	65.34	33.59	0.11	10.45	QP
2	0.162	29.05	-26.29	55.34	18.49	0.11	10.45	Average
3	0.226	41.95	-20.66	62.61	31.50	0.10	10.35	QP
4	0.226	26.05	-26.56	52.61	15.60	0.10	10.35	Average
5	0.279	41.52	-19.33	60.85	31.10	0.10	10.32	QP
6	0.279	28.62	-22.23	50.85	18.20	0.10	10.32	Average
7 *	0.471	38.55	-17.94	56.49	28.20	0.11	10.24	QP
8	0.471	23.95	-22.54	46.49	13.60	0.11	10.24	Average
9	16.055	36.38	-23.62	60.00	25.60	0.36	10.42	QP
10	16.055	29.98	-20.02	50.00	19.20	0.36	10.42	Average
11	18.328	35.72	-24.28	60.00	24.81	0.45	10.46	QP
12	18.328	28.52	-21.48	50.00	17.61	0.45	10.46	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Test Engineer :	Hanzy Li	Temperature :	27~30°C
		Relative Humidity :	55~60%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.43	55.01	-18.99	74	49.79	30.94	7.16	32.88	100	78	P	H
		2389.17	43.16	-10.84	54	37.94	30.94	7.16	32.88	100	78	A	H
	*	2412	102.6	-	-	97.26	31	7.18	32.84	100	78	P	H
	*	2410	99.3	-	-	93.96	31	7.18	32.84	100	78	A	H
		2344.45	54.26	-19.74	74	49.34	30.77	7.07	32.92	393	119	P	V
		2389.04	43	-11	54	37.78	30.94	7.16	32.88	393	119	A	V
	*	2412	99.76	-	-	94.42	31	7.18	32.84	393	119	P	V
	*	2410	96.28	-	-	90.94	31	7.18	32.84	393	119	A	V
802.11b CH 11 2462MHz		2492.32	54.99	-19.01	74	49.09	31.17	7.3	32.57	100	218	P	H
		2486.98	43.65	-10.35	54	37.85	31.17	7.27	32.64	100	218	A	H
	*	2462	98.21	-	-	92.57	31.1	7.25	32.71	100	218	P	H
	*	2464	94.93	-	-	89.29	31.1	7.25	32.71	100	218	A	H
		2498.44	55.25	-18.75	74	49.35	31.17	7.3	32.57	368	101	P	V
		2485.96	43.48	-10.52	54	37.68	31.17	7.27	32.64	368	101	A	V
	*	2462	97.33	-	-	91.69	31.1	7.25	32.71	368	101	P	V
	*	2460	94.12	-	-	88.48	31.1	7.25	32.71	368	101	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4830	49.44	-24.56	74	64.65	34.57	10.26	60.04	300	0	P	H
		4830	47.89	-26.11	74	63.1	34.57	10.26	60.04	100	0	P	V
802.11b CH 06 2437MHz		4875	43.97	-30.03	74	59.02	34.66	10.32	60.03	300	0	P	H
		7305	44.61	-29.39	74	55.81	36.56	12.75	60.51	300	0	P	H
		4875	42.44	-31.56	74	57.49	34.66	10.32	60.03	100	0	P	V
		7305	45.41	-28.59	74	56.61	36.56	12.75	60.51	100	0	P	V
802.11b CH 11 2462MHz		4920	43.72	-30.28	74	58.63	34.72	10.39	60.02	300	0	P	H
		7380	45.82	-28.18	74	56.96	36.58	12.81	60.53	300	0	P	H
		4920	42.93	-31.07	74	57.84	34.72	10.39	60.02	100	0	P	V
		7380	45.02	-28.98	74	56.16	36.58	12.81	60.53	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.82	55.31	-18.69	74	50.05	30.94	7.16	32.84	100	231	P	H
		2389.95	45.78	-8.22	54	40.52	30.94	7.16	32.84	100	231	A	H
	*	2412	103.55	-	-	98.21	31	7.18	32.84	100	231	P	H
	*	2412	95.93	-	-	90.59	31	7.18	32.84	100	231	A	H
		2389.95	55.81	-18.19	74	50.55	30.94	7.16	32.84	296	68	P	V
		2389.95	44.91	-9.09	54	39.65	30.94	7.16	32.84	296	68	A	V
	*	2410	99.05	-	-	93.71	31	7.18	32.84	296	68	P	V
	*	2412	90.87	-	-	85.53	31	7.18	32.84	296	68	A	V
802.11g CH 11 2462MHz		2486.44	58.59	-15.41	74	52.79	31.17	7.27	32.64	195	356	P	H
		2485.78	46.22	-7.78	54	40.42	31.17	7.27	32.64	195	356	A	H
	*	2462	103.44	-	-	97.8	31.1	7.25	32.71	195	356	P	H
	*	2462	95.39	-	-	89.75	31.1	7.25	32.71	195	356	A	H
		2485.36	56.83	-17.17	74	51.03	31.17	7.27	32.64	101	7	P	V
		2485	45.73	-8.27	54	39.97	31.13	7.27	32.64	101	7	A	V
	*	2466	98.17	-	-	92.53	31.1	7.25	32.71	101	7	P	V
	*	2462	89.41	-	-	83.77	31.1	7.25	32.71	101	7	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4830	44.92	-29.08	74	60.13	34.57	10.26	60.04	300	0	P	H
		4830	46.24	-27.76	74	61.45	34.57	10.26	60.04	100	0	P	V
802.11g CH 06 2437MHz		4875	42.33	-31.67	74	57.38	34.66	10.32	60.03	300	0	P	H
		7305	44.42	-29.58	74	55.62	36.56	12.75	60.51	300	0	P	H
		4875	42.74	-31.26	74	57.79	34.66	10.32	60.03	100	0	P	V
		7305	44.21	-29.79	74	55.41	36.56	12.75	60.51	100	0	P	V
802.11g CH 11 2462MHz		4920	44.16	-29.84	74	59.07	34.72	10.39	60.02	300	0	P	H
		7380	45.04	-28.96	74	56.18	36.58	12.81	60.53	300	0	P	H
		4920	42.55	-31.45	74	57.46	34.72	10.39	60.02	100	0	P	V
		7380	46.11	-27.89	74	57.25	36.58	12.81	60.53	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.69	59.88	-14.12	74	54.66	30.94	7.16	32.88	100	79	P	H
		2389.95	47.8	-6.2	54	42.54	30.94	7.16	32.84	100	79	A	H
	*	2410	104.92	-	-	99.58	31	7.18	32.84	100	79	P	H
	*	2410	96.29	-	-	90.95	31	7.18	32.84	100	79	A	H
		2389.69	56.38	-17.62	74	51.16	30.94	7.16	32.88	340	100	P	V
		2389.95	46.02	-7.98	54	40.76	30.94	7.16	32.84	340	100	A	V
	*	2412	102.06	-	-	96.72	31	7.18	32.84	340	100	P	V
	*	2410	93.43	-	-	88.09	31	7.18	32.84	340	100	A	V
802.11n HT20 CH 11 2462MHz		2484.76	56.93	-17.07	74	51.17	31.13	7.27	32.64	140	76	P	H
		2483.5	45.64	-8.36	54	39.88	31.13	7.27	32.64	140	76	A	H
	*	2470	101.44	-	-	95.7	31.13	7.25	32.64	140	76	P	H
	*	2470	93.39	-	-	87.65	31.13	7.25	32.64	140	76	A	H
		2483.98	55.56	-18.44	74	49.8	31.13	7.27	32.64	320	112	P	V
		2483.68	44.26	-9.74	54	38.5	31.13	7.27	32.64	320	112	A	V
	*	2462	98.77	-	-	93.13	31.1	7.25	32.71	320	112	P	V
	*	2460	89.99	-	-	84.35	31.1	7.25	32.71	320	112	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4830	45.08	-28.92	74	60.29	34.57	10.26	60.04	300	0	P	H
		4830	46.28	-27.72	74	61.49	34.57	10.26	60.04	100	0	P	V
802.11n HT20 CH 06 2437MHz		4875	42.33	-31.67	74	57.38	34.66	10.32	60.03	300	0	P	H
		7305	44.47	-29.53	74	55.67	36.56	12.75	60.51	300	0	P	H
		4875	42.27	-31.73	74	57.32	34.66	10.32	60.03	100	0	P	V
		7305	44.13	-29.87	74	55.33	36.56	12.75	60.51	100	0	P	V
802.11n HT20 CH 11 2462MHz		4920	43.82	-30.18	74	58.73	34.72	10.39	60.02	300	0	P	H
		7380	44.91	-29.09	74	56.05	36.58	12.81	60.53	300	0	P	H
		4920	43.2	-30.8	74	58.11	34.72	10.39	60.02	100	0	P	V
		7380	44.65	-29.35	74	55.79	36.58	12.81	60.53	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		30	22.75	-17.25	40	28.8	24.6	0.58	31.23	-	-	P	H
		159.98	18.15	-25.35	43.5	31.44	16	2.03	31.32	-	-	P	H
		185.2	22.99	-20.51	43.5	36.97	15.15	2.2	31.33	-	-	P	H
		288.99	25.75	-20.25	46	35.23	19.35	2.75	31.58	-	-	P	H
		310.33	26.6	-19.4	46	35.88	19.51	2.85	31.64	-	-	P	H
		864.2	28.79	-17.21	46	28.78	26.49	4.79	31.27	100	0	P	H
		30.97	25.59	-14.41	40	32.21	24.04	0.59	31.25	100	0	P	V
		186.17	16.79	-26.71	43.5	30.79	15.12	2.21	31.33	-	-	P	V
		284.14	20	-26	46	29.44	19.38	2.73	31.55	-	-	P	V
		463.59	21.99	-24.01	46	26.95	22.82	3.5	31.28	-	-	P	V
		564.47	25.28	-20.72	46	28.05	24.91	3.86	31.54	-	-	P	V
		757.5	28.41	-17.59	46	29.34	25.72	4.48	31.13	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Co-location:**

WWAN LTE 41 Link + WLAN 2.4GHz 11n20 CH01(Ant.6+7)

2.4GHz 2400~2483.5MHz

(Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2388.91	55.66	-18.34	74	50.44	30.94	7.16	32.88	123	254	P	H
		2389.95	45.84	-8.16	54	40.58	30.94	7.16	32.84	123	254	A	H
		2414	104.32	-	-	98.98	31	7.18	32.84	123	254	P	H
		2414	95.99	-	-	90.65	31	7.18	32.84	123	254	A	H
		2375.52	54.16	-19.84	74	49.03	30.88	7.13	32.88	330	89	P	V
		2389.95	43.62	-10.38	54	38.36	30.94	7.16	32.84	330	89	A	V
		2414	100.17	-	-	94.83	31	7.18	32.84	330	89	P	V
		2414	92.25	-	-	86.91	31	7.18	32.84	330	89	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

(Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
WWAN+		4830	43.27	-30.73	74	58.48	34.57	10.26	60.04	300	0	P	H
WLAN		4830	42.23	-31.77	74	57.44	34.57	10.26	60.04	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

$$1. \text{ Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m) =}$$

$$\text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$3. \text{ Over Limit(dB) = Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 43.54(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

$$= 43.54(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -10.46(\text{dB})$$

Both peak and average measured complies with the limit line, so test result is "PASS".



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Hanzhi Li	Temperature :	27~30°C
		Relative Humidity :	55~60%

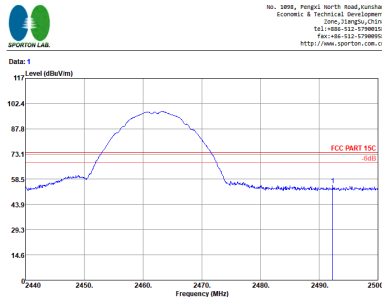
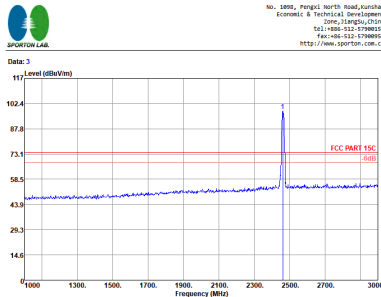
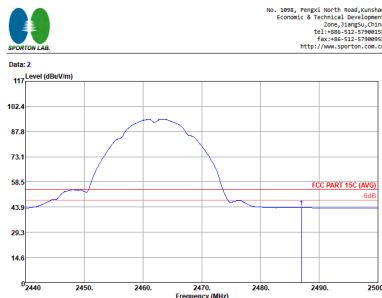
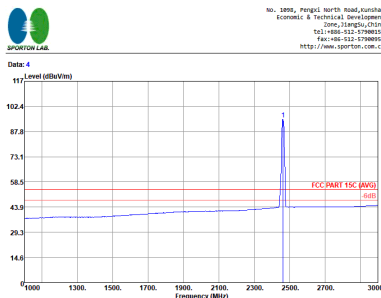
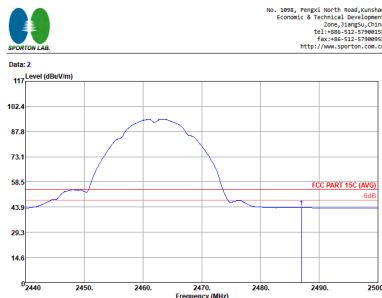
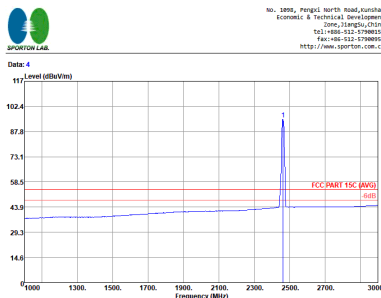
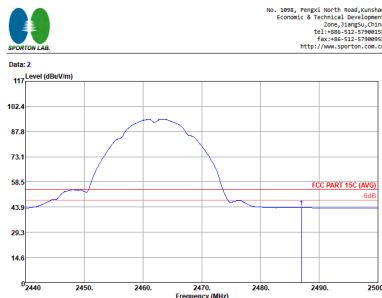
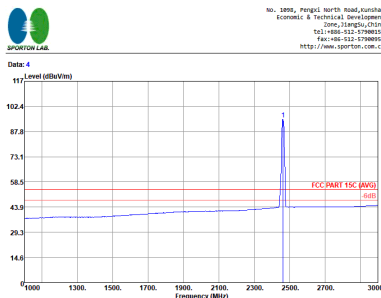
Note symbol

-L	Low channel location
-R	High channel location

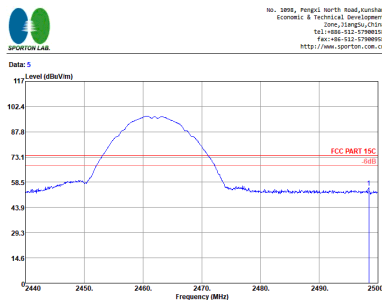
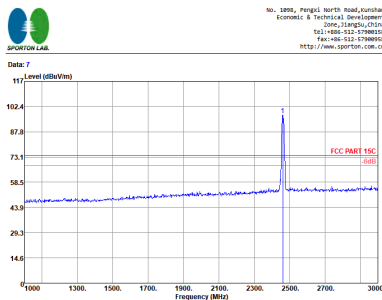
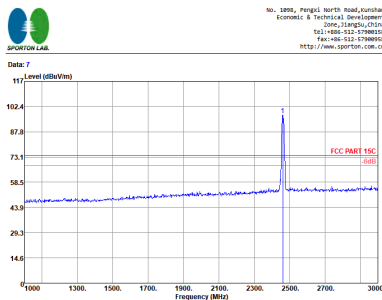
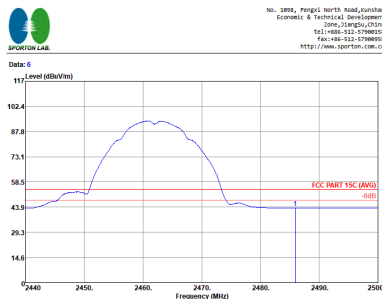
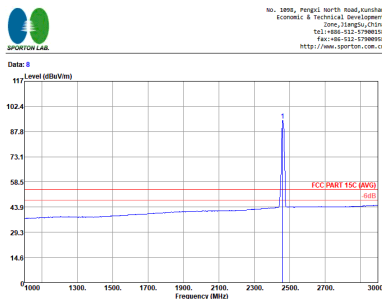
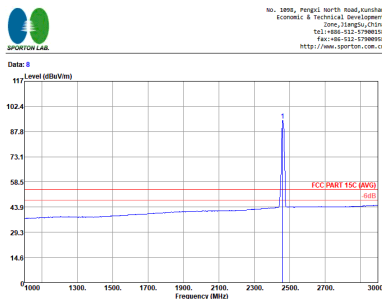


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
6+7	Vertical	Fundamental
Peak	SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. SPORTON LAB. 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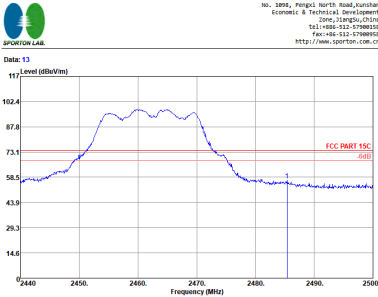
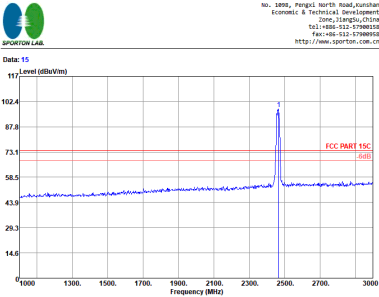
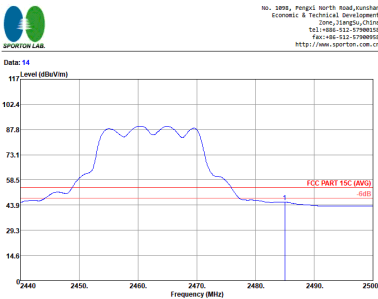
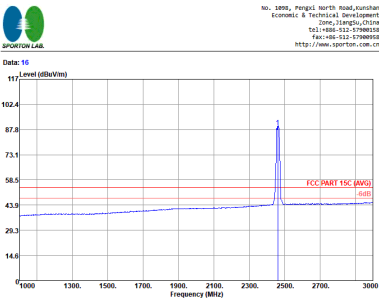


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Avg.	 No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 830806-K5 Condition : FCC PART 15C (AVG) 3m 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000Hz SWT:Auto Mode : (F8)100310 Plane : 12 Full-directivity ZNEI : 46 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2465.96</td><td>43.48</td><td>-18.52</td><td>54.00</td><td>37.68</td><td>7.27</td><td>31.17</td><td>32.64</td><td>368 101 Average</td></tr></table> <td>  No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 830806-K5 Condition : FCC PART 15C (AVG) 3m 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000Hz SWT:Auto Mode : (F8)100310 Plane : 12 Full-directivity ZNEI : 46 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2460.00</td><td>94.12</td><td>40.12</td><td>54.00</td><td>88.48</td><td>7.25</td><td>31.18</td><td>32.71</td><td>368 101 Average</td></tr></table> </td>	Freq	Level	Over	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB/m	dB	cm	deg	1	2465.96	43.48	-18.52	54.00	37.68	7.27	31.17	32.64	368 101 Average	 No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 830806-K5 Condition : FCC PART 15C (AVG) 3m 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000Hz SWT:Auto Mode : (F8)100310 Plane : 12 Full-directivity ZNEI : 46 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2460.00</td><td>94.12</td><td>40.12</td><td>54.00</td><td>88.48</td><td>7.25</td><td>31.18</td><td>32.71</td><td>368 101 Average</td></tr></table>	Freq	Level	Over	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB/m	dB	cm	deg	1 *	2460.00	94.12	40.12	54.00	88.48	7.25	31.18	32.71	368 101 Average
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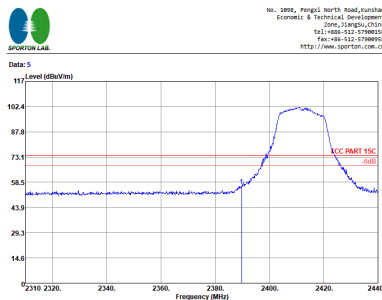
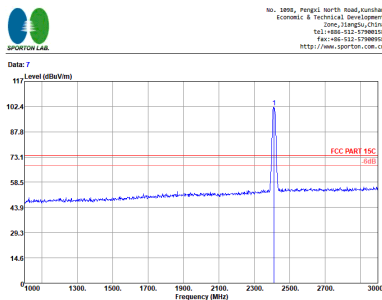
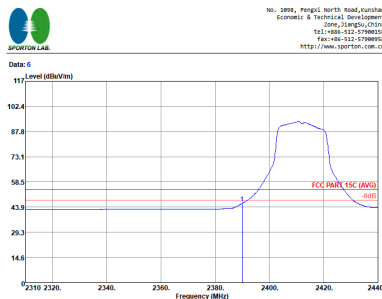
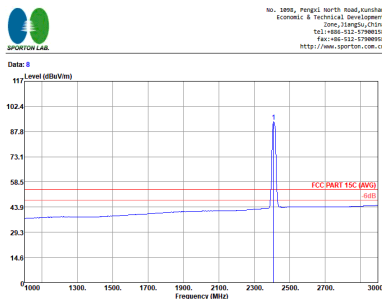


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
6+7	Horizontal	Fundamental
Peak	SPORTON LAB. No. 1899, Pengji North Road,Kunshan Economic & Technical Development Zone, Jiangsu,China Tel:+86-512-57980518 Fax:+86-512-57980518 http://www.sporton.com.cn Date: 9 Level (dBuV/m) <	

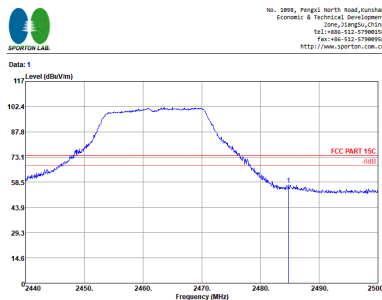
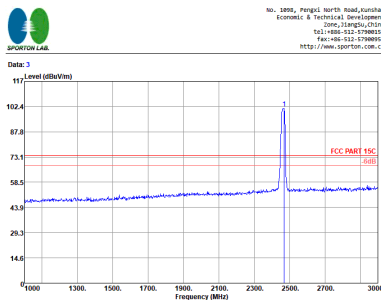
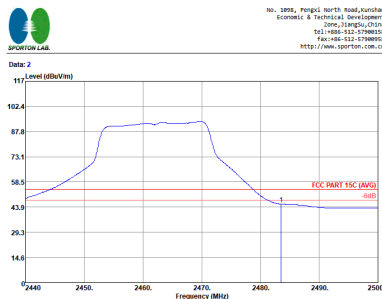
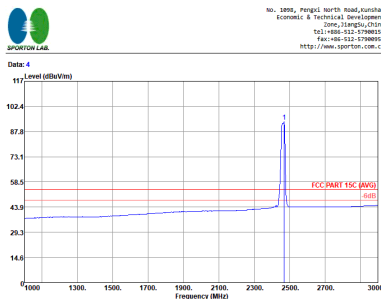


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6+7	Vertical	Fundamental																																																																																																																					
Peak	 No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 802.11g-K5 Condition : FCC PART 15C 3e 3117.5M 80218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SW:Auto Mode : (F9)100310 Plane : X Full-directivity ZNEI : 46 15 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2485.36</td><td>56.83</td><td>-17.17</td><td>74.00</td><td>51.83</td><td>7.27</td><td>31.17</td><td>32.64</td><td>181</td><td>7 Peak</td></tr></table>  No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 802.11g-K5 Condition : FCC PART 15C 3e 3117.5M 80218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SW:Auto Mode : (F9)100310 Plane : X Full-directivity ZNEI : 46 15 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2462.00</td><td>98.17</td><td>24.17</td><td>74.00</td><td>92.53</td><td>7.25</td><td>31.18</td><td>32.71</td><td>181</td><td>7 Peak</td></tr></table>	Freq	Level	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg	1	2485.36	56.83	-17.17	74.00	51.83	7.27	31.17	32.64	181	7 Peak	Freq	Level	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg	1	2462.00	98.17	24.17	74.00	92.53	7.25	31.18	32.71	181	7 Peak	Avg.	 No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 802.11g-K5 Condition : FCC PART 15C (AVG) 3e 3117.5M 80218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SW:Auto Mode : (F9)100310 Plane : X Full-directivity ZNEI : 46 15 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2485.00</td><td>45.73</td><td>-8.27</td><td>54.00</td><td>39.97</td><td>7.27</td><td>31.13</td><td>32.64</td><td>181</td><td>7 Average</td></tr></table>  No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57980510 Fax: +86-512-57980510 http://www.sporton.com.cn Site : 802.11g-K5 Condition : FCC PART 15C (AVG) 3e 3117.5M 80218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SW:Auto Mode : (F9)100310 Plane : X Full-directivity ZNEI : 46 15 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2462.00</td><td>89.41</td><td>35.41</td><td>54.00</td><td>83.77</td><td>7.25</td><td>31.18</td><td>32.71</td><td>181</td><td>7 Average</td></tr></table>	Freq	Level	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg	1	2485.00	45.73	-8.27	54.00	39.97	7.27	31.13	32.64	181	7 Average	Freq	Level	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg	1	2462.00	89.41	35.41	54.00	83.77	7.25	31.18	32.71	181	7 Average
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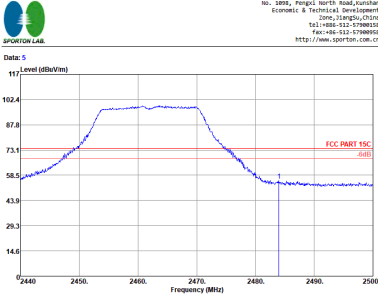
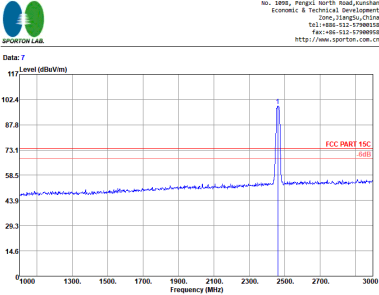
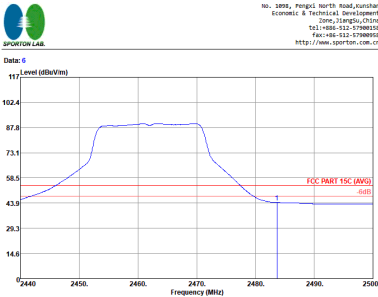
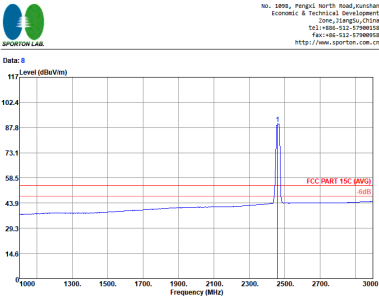


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																																																										
ANT	802.11n HT20 CH01 2412MHz																																																																																																																										
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Peak	 No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980510 http://www.sporton.com.cn Site : 83086-K5 Condition : FCC PART 15C 3e 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SWT:Auto Mode : 15 Plane : A Full-directivity : 85 ZNEI : 15 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.69</td><td>56.38</td><td>-17.62</td><td>74.00</td><td>51.16</td><td>7.16</td><td>38.94</td><td>32.88</td><td>340 100 Peak</td></tr></table>  No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980510 http://www.sporton.com.cn Site : 83086-K5 Condition : FCC PART 15C 3e 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SWT:Auto Mode : 15 Plane : A Full-directivity : 85 ZNEI : 15 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2412.00</td><td>102.06</td><td>28.06</td><td>74.00</td><td>96.72</td><td>7.18</td><td>31.00</td><td>32.84</td><td>340 100 Peak</td></tr></table>	Freq	Level	Over	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	2389.69	56.38	-17.62	74.00	51.16	7.16	38.94	32.88	340 100 Peak	Freq	Level	Over	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	2412.00	102.06	28.06	74.00	96.72	7.18	31.00	32.84	340 100 Peak	Avg.	 No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980510 http://www.sporton.com.cn Site : 83086-K5 Condition : FCC PART 15C (AVG) 3e 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SWT:Auto Mode : 15 Plane : A Full-directivity : 85 ZNEI : 15 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.95</td><td>46.82</td><td>-7.98</td><td>54.00</td><td>40.76</td><td>7.16</td><td>38.94</td><td>32.84</td><td>340 100 Average</td></tr></table>  No. 1099, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980510 http://www.sporton.com.cn Site : 83086-K5 Condition : FCC PART 15C (AVG) 3e 3117 5N 080218642 VERTICAL Project : RSU:1000.000MHz VSW:3000.000MHz SWT:Auto Mode : 15 Plane : A Full-directivity : 85 ZNEI : 15 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2412.00</td><td>93.43</td><td>39.43</td><td>54.00</td><td>88.99</td><td>7.18</td><td>31.00</td><td>32.84</td><td>340 100 Average</td></tr></table>	Freq	Level	Over	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	2389.95	46.82	-7.98	54.00	40.76	7.16	38.94	32.84	340 100 Average	Freq	Level	Over	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	2412.00	93.43	39.43	54.00	88.99	7.18	31.00	32.84	340 100 Average
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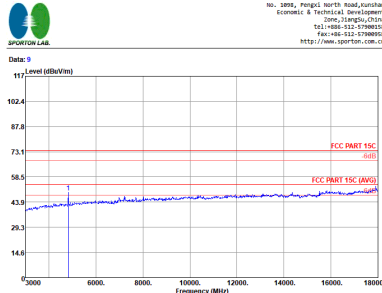
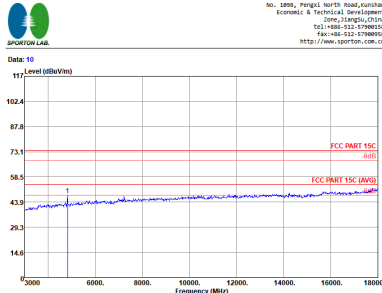
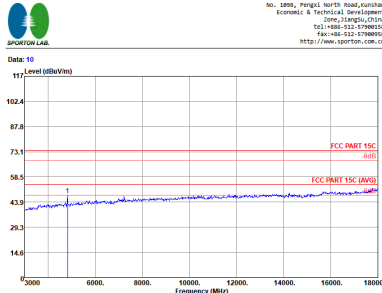


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m																																																																																																																										
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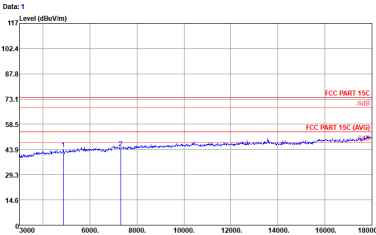
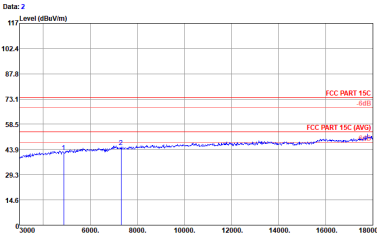
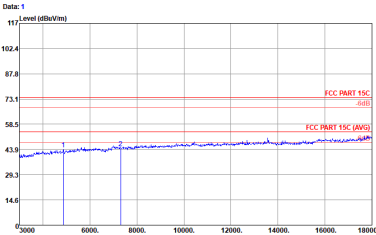
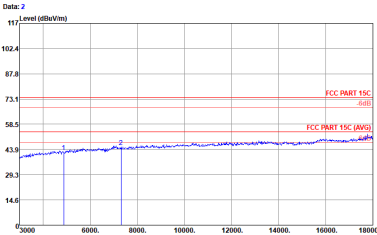


2.4GHz 2400~2483.5MHz

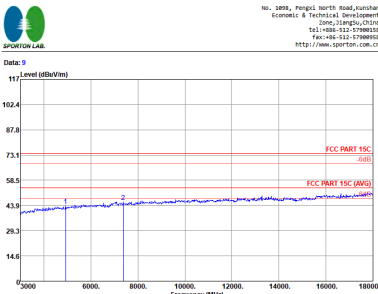
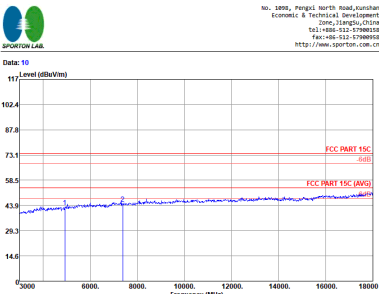
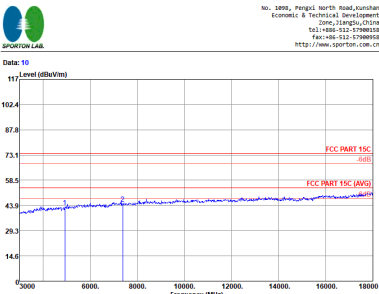
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																											
ANT	802.11b CH01 2412MHz																																																											
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Peak	 Site : 83CH06-K5 Condition : FCC PART 15C 3m 3117 5N 00218642 HORIZONTAL Project : RRU:1000.000000Hz VBI:3000.000000Hz SWT:Auto Node : (FR1D0310D) Plane : X ZNEI : Full-directivity 40 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4530.00</td><td>49.44</td><td>-24.56</td><td>74.00</td><td>64.65</td><td>10.26</td><td>34.57</td><td>60.04</td><td>300</td><td>0 Peak</td></tr></table> <td>  Site : 83CH06-K5 Condition : FCC PART 15C 3m 3117 5N 00218642 VERTICAL Project : RRU:1000.000000Hz VBI:3000.000000Hz SWT:Auto Node : (FR1D0310D) Plane : X ZNEI : Full-directivity 40 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4530.00</td><td>47.89</td><td>-26.11</td><td>74.00</td><td>63.10</td><td>10.26</td><td>34.57</td><td>60.04</td><td>100</td><td>0 Peak</td></tr></table> </td>	Freq	Level	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg	1	4530.00	49.44	-24.56	74.00	64.65	10.26	34.57	60.04	300	0 Peak	 Site : 83CH06-K5 Condition : FCC PART 15C 3m 3117 5N 00218642 VERTICAL Project : RRU:1000.000000Hz VBI:3000.000000Hz SWT:Auto Node : (FR1D0310D) Plane : X ZNEI : Full-directivity 40 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4530.00</td><td>47.89</td><td>-26.11</td><td>74.00</td><td>63.10</td><td>10.26</td><td>34.57</td><td>60.04</td><td>100</td><td>0 Peak</td></tr></table>	Freq	Level	Limit	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg	1	4530.00	47.89	-26.11	74.00	63.10	10.26	34.57	60.04	100	0 Peak
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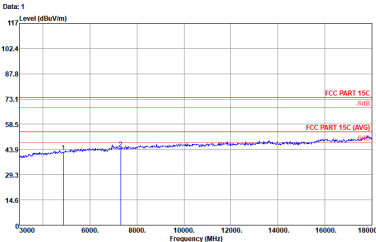
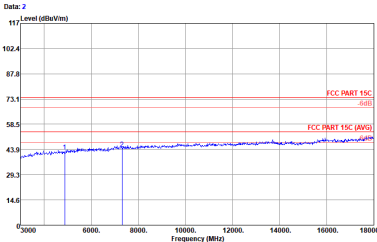


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m									
ANT	802.11g CH01 2412MHz									
6+7	Horizontal					Vertical				
Peak Avg.	SPORTON LAB No. 1089, Pengli North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980505 http://www.sporton.com.cn DATA: 9 Level (dBuV/m) 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 Frequency (MHz) 3000 6000 8000 10000 12000 14000 16000 18000 FCC PART 15C dBd FCC PART 15C (AVG) dBd Site : 83CH06-K5 Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : R04:1000.000000 V04:3000.000000 S07:Auto Model : (FR1D0310) Plane : X Polar : Full-directivity ZNEI : 40 ZNEI : 15 Freq Level Limit Read Cable Antenna Preamp A/Pos T/Pos Remark dBuV/m dB dBuV/m dBuV dB dB/m dB cm deg 1 4830.00 44.92 -29.88 74.00 60.13 10.26 34.57 60.04 300 0 Peak <td colspan="5"> SPORTON LAB No. 1089, Pengli North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980505 http://www.sporton.com.cn DATA: 10 Level (dBuV/m) 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 Frequency (MHz) 3000 6000 8000 10000 12000 14000 16000 18000 FCC PART 15C dBd FCC PART 15C (AVG) dBd Site : 83CH06-K5 Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : R04:1000.000000 V04:3000.000000 S07:Auto Model : (FR1D0310) Plane : X Polar : Full-directivity ZNEI : 40 ZNEI : 15 Freq Level Limit Read Cable Antenna Preamp A/Pos T/Pos Remark dBuV/m dB dBuV/m dBuV dB dB/m dB cm deg 1 4830.00 46.24 -27.76 74.00 61.45 10.26 34.57 60.04 100 0 Peak </td>					SPORTON LAB No. 1089, Pengli North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-77980510 Fax: +86-512-77980505 http://www.sporton.com.cn DATA: 10 Level (dBuV/m) 117 102.4 87.8 73.1 58.5 43.9 29.3 14.6 Frequency (MHz) 3000 6000 8000 10000 12000 14000 16000 18000 FCC PART 15C dBd FCC PART 15C (AVG) dBd Site : 83CH06-K5 Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : R04:1000.000000 V04:3000.000000 S07:Auto Model : (FR1D0310) Plane : X Polar : Full-directivity ZNEI : 40 ZNEI : 15 Freq Level Limit Read Cable Antenna Preamp A/Pos T/Pos Remark dBuV/m dB dBuV/m dBuV dB dB/m dB cm deg 1 4830.00 46.24 -27.76 74.00 61.45 10.26 34.57 60.04 100 0 Peak				



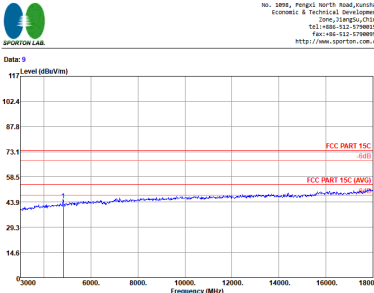
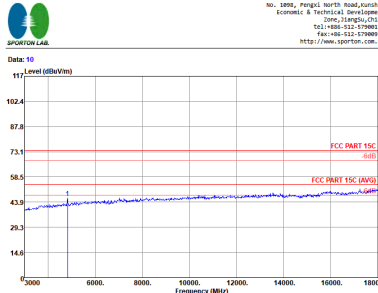
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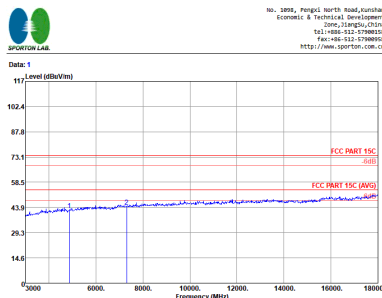
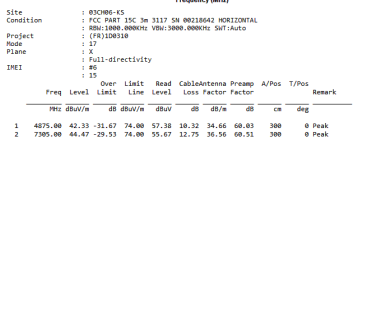
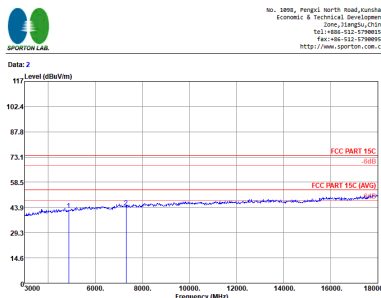
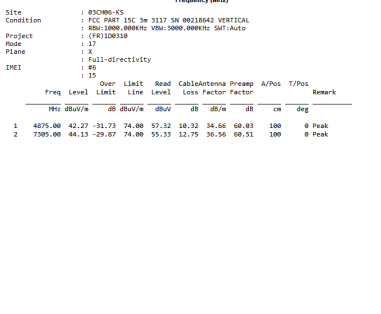
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2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

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ANT	802.11n HT20 CH01 2412MHz																																																														
6+7	Horizontal					Vertical																																																									
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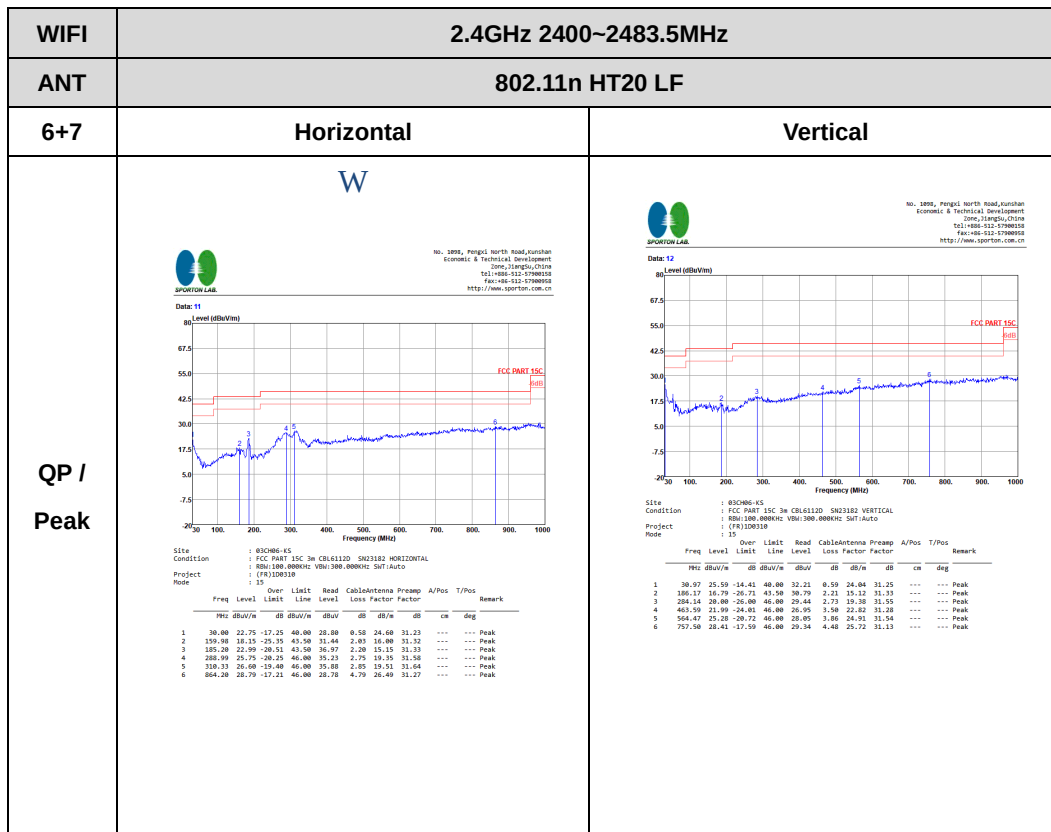
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Avg.	No. 1899, Pingli North Road, Suzhou Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57080518 Fax: +86-512-57080518 http://www.sporton.com.cn SPORTON LAB Data: 9 Level (dBuV/m) Freq Level Limit Line Level Loss Factor Factor A/Pos T/Pos Remark <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4920.00</td><td>43.82</td><td>-30.18</td><td>74.00</td><td>58.73</td><td>18.39</td><td>34.72</td><td>60.82</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>7300.00</td><td>44.91</td><td>-29.09</td><td>74.00</td><td>56.95</td><td>12.05</td><td>36.58</td><td>60.53</td><td>100</td><td>0 Peak</td></tr></tbody></table>	Freq	Level	Limit	Line	Level	Loss	Factor	Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB	cm	deg		1	4920.00	43.82	-30.18	74.00	58.73	18.39	34.72	60.82	100	0 Peak	2	7300.00	44.91	-29.09	74.00	56.95	12.05	36.58	60.53	100	0 Peak	No. 1899, Pingli North Road, Suzhou Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57080518 Fax: +86-512-57080518 http://www.sporton.com.cn SPORTON LAB Data: 10 Level (dBuV/m) Freq Level Limit Line Level Loss Factor Factor A/Pos T/Pos Remark <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4920.00</td><td>43.20</td><td>-30.80</td><td>74.00</td><td>58.11</td><td>18.39</td><td>34.72</td><td>60.82</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>7300.00</td><td>44.65</td><td>-29.35</td><td>74.00</td><td>55.79</td><td>12.05</td><td>36.58</td><td>60.53</td><td>100</td><td>0 Peak</td></tr></tbody></table>	Freq	Level	Limit	Line	Level	Loss	Factor	Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB	cm	deg		1	4920.00	43.20	-30.80	74.00	58.11	18.39	34.72	60.82	100	0 Peak	2	7300.00	44.65	-29.35	74.00	55.79	12.05	36.58	60.53	100	0 Peak
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2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)



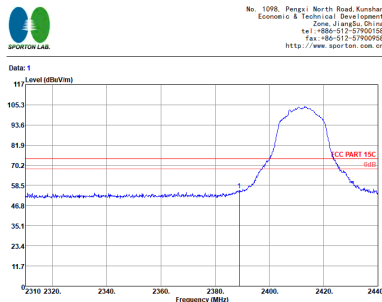
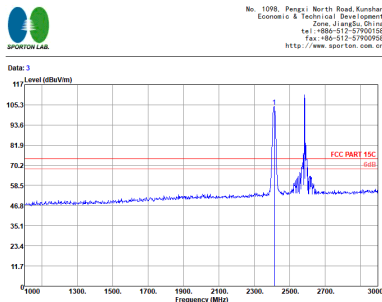
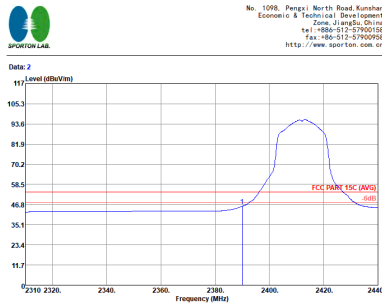
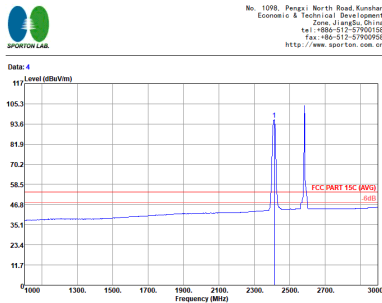


Co-location:

WWAN LTE 41 Link + WLAN 2.4GHz 11n20 CH01(Ant.6+7)

2.4GHz 2400~2483.5MHz

(Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																																																																						
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6+7	Horizontal	Fundamental																																																																																																																																					
Peak	 No. 1098, Pengxi North Road Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030904-K3 Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000 000KHz VSW:3000 000KHz SRT:Auto Mode : 22 Plane : 2 Full-directivity : 2 IMEI : 86 Power setting : 15 11n20 CH01 & LTE Band41 BW=20M <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/n</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2388.91</td><td>55.66</td><td>-18.34</td><td>74.00</td><td>50.44</td><td>30.94</td><td>7.16</td><td>32.88</td><td>123</td><td>254 Peak</td></tr></table>  No. 1098, Pengxi North Road Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030904-K3 Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000 000KHz VSW:3000 000KHz SRT:Auto Mode : 22 Plane : 2 Full-directivity : 2 IMEI : 86 Power setting : 15 11n20 CH01 & LTE Band41 BW=20M <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/n</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2414.00</td><td>104.32</td><td>30.32</td><td>74.00</td><td>98.98</td><td>31.00</td><td>7.18</td><td>32.84</td><td>123</td><td>254 Peak</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable	Preamp	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/n	dB	cm	deg			1	2388.91	55.66	-18.34	74.00	50.44	30.94	7.16	32.88	123	254 Peak	Freq	Level	Limit	ReadAntenna	Cable	Preamp	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/n	dB	cm	deg			1	2414.00	104.32	30.32	74.00	98.98	31.00	7.18	32.84	123	254 Peak	Avg.	 No. 1098, Pengxi North Road Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030904-K3 Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000 000KHz VSW:3000 010KHz SRT:Auto Mode : 22 Plane : 2 Full-directivity : 2 IMEI : 86 Power setting : 15 11n20 CH01 & LTE Band41 BW=20M <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/n</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.95</td><td>45.84</td><td>-8.16</td><td>54.00</td><td>40.58</td><td>30.94</td><td>7.16</td><td>32.84</td><td>123</td><td>254 Average</td></tr></table>  No. 1098, Pengxi North Road Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030904-K3 Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000 000KHz VSW:3000 010KHz SRT:Auto Mode : 22 Plane : 2 Full-directivity : 2 IMEI : 86 Power setting : 15 11n20 CH01 & LTE Band41 BW=20M <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/n</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2414.00</td><td>95.99</td><td>41.99</td><td>54.00</td><td>90.65</td><td>31.00</td><td>7.18</td><td>32.84</td><td>123</td><td>254 Average</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable	Preamp	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/n	dB	cm	deg			1	2389.95	45.84	-8.16	54.00	40.58	30.94	7.16	32.84	123	254 Average	Freq	Level	Limit	ReadAntenna	Cable	Preamp	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/n	dB	cm	deg			1	2414.00	95.99	41.99	54.00	90.65	31.00	7.18	32.84	123	254 Average
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FCC RF Test Report

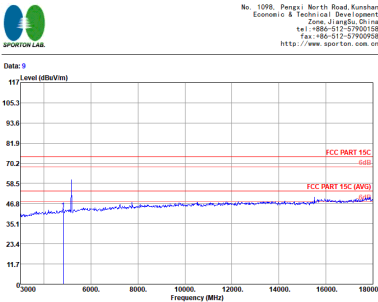
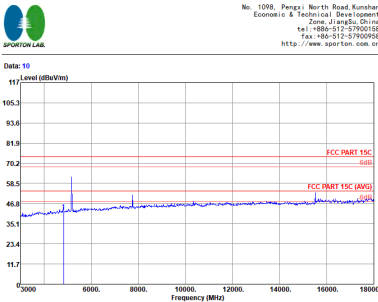
Report No. : FR1D0310D

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz - L	
6+7	Vertical	Fundamental
Peak	No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030806-KS Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RSM 1000 0000Hz VSW:3000 0000Hz SMT:Auto Bode : (FR)100310 Plane : 2 Full-directivity : 2 Power setting : 15 IMEI : 15 Power setting : 15 11n20 CH01 & LTE Band41 BW=20M Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas MHz dBuV/m dB dBuV/m dBuV/m dB dB cm deg 1 2375.52 54.16 -19.84 74.00 49.03 30.88 7.13 32.88 330 89 Peak VERTICAL	No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030806-KS Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RSM 1000 0000Hz VSW:3000 0000Hz SMT:Auto Bode : (FR)100310 Plane : 2 Full-directivity : 2 Power setting : 15 IMEI : 15 Power setting : 15 11n20 CH01 & LTE Band41 BW=20M Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas MHz dBuV/m dB dBuV/m dBuV/m dB dB cm deg 1 2414.00 100.17 26.17 74.00 94.83 31.00 7.18 32.84 330 89 Peak VERTICAL
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2.4GHz 2400~2483.5MHz

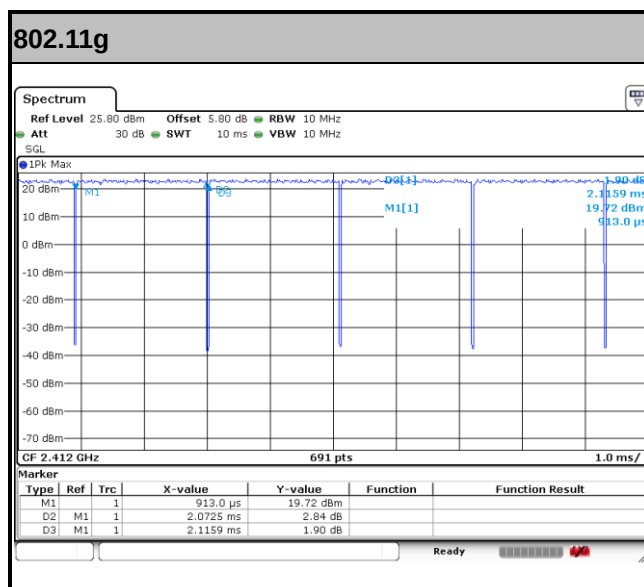
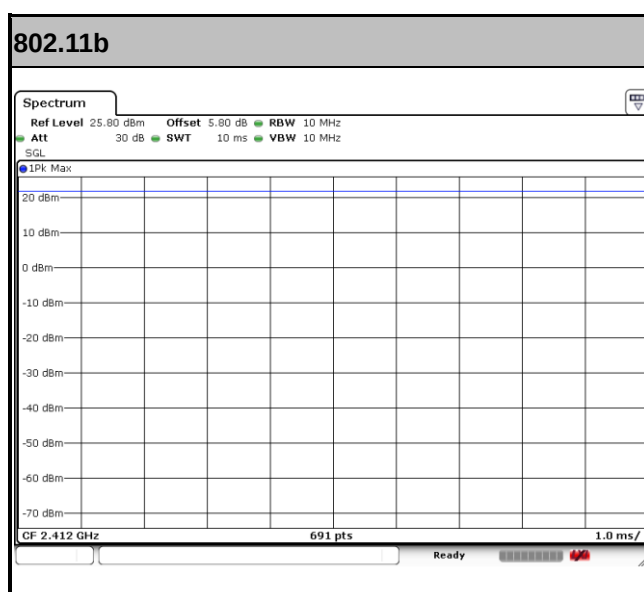
(Harmonic @ 3m)

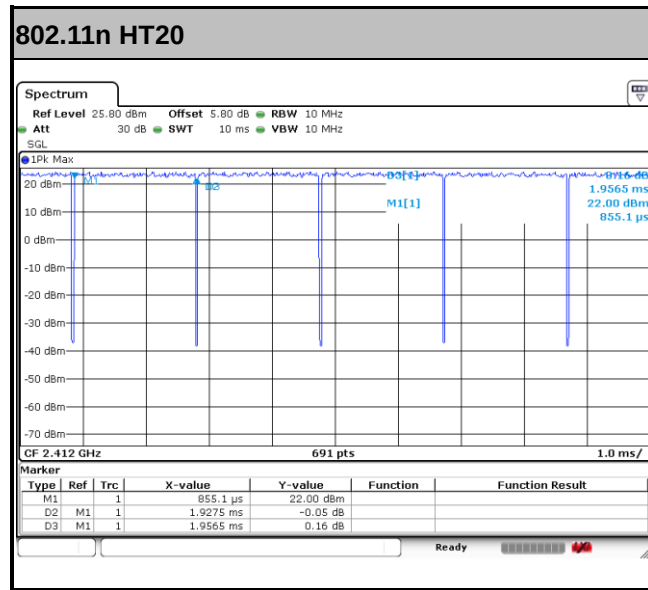
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Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
6+7	802.11b	100	-	-	10Hz
6+7	802.11g	97.95	2.073	0.483	0.51kHz
6+7	802.11n-HT20	98.52	-	-	10Hz





—THE END—