

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 4G PHONE

Test Model: BSCUS01

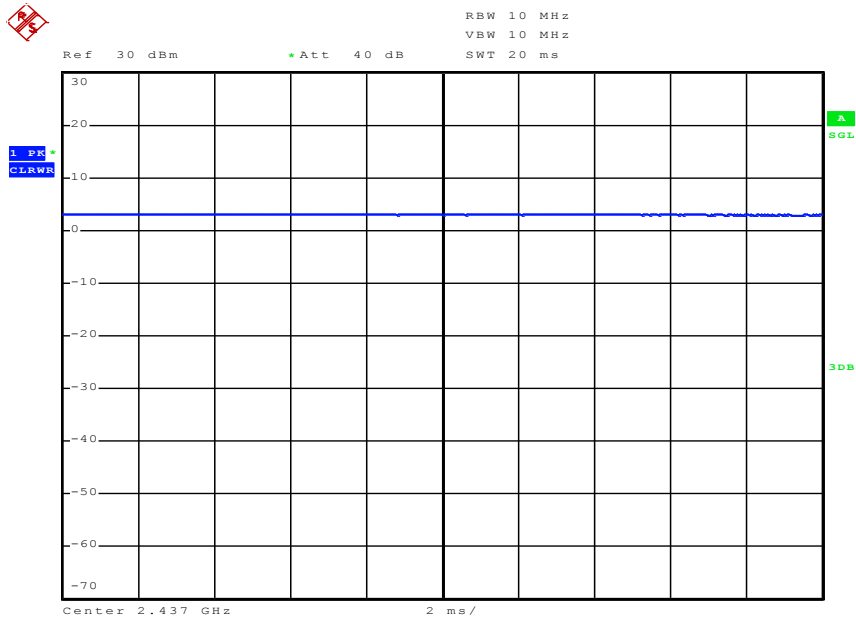
Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

C.1 Duty Cycle

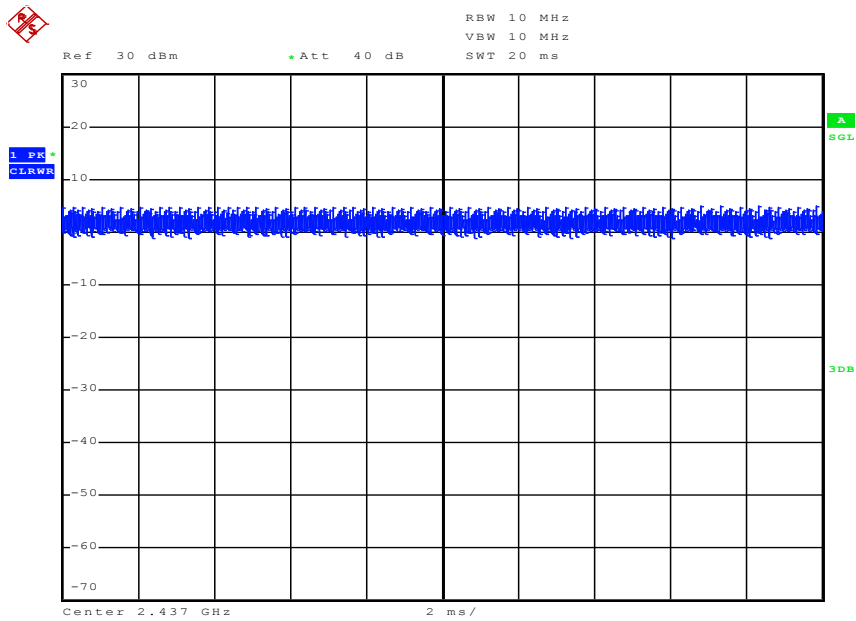
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

Duty Cycle_11B_2437_Ant1



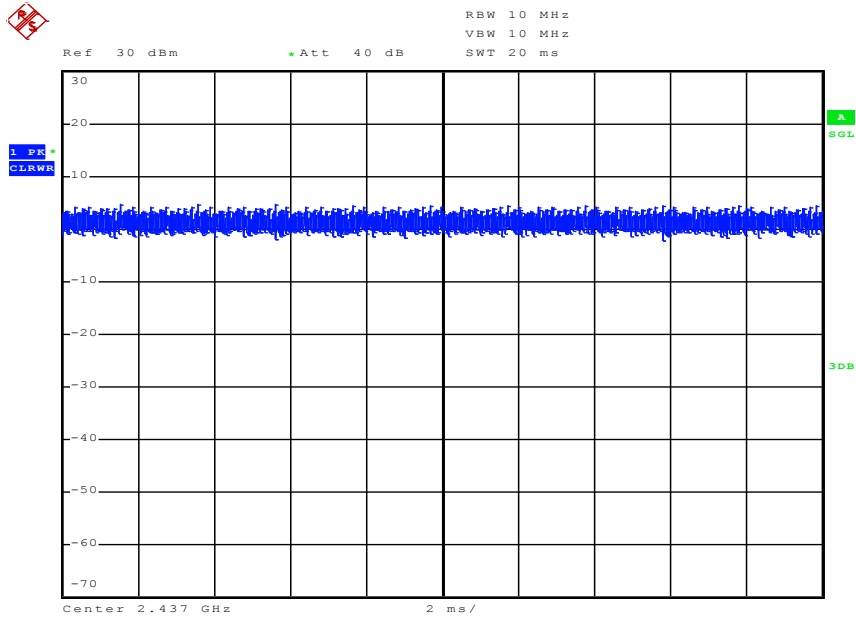
Date: 6.AUG.2019 21:24:23

Duty Cycle_11G_2437_Ant1



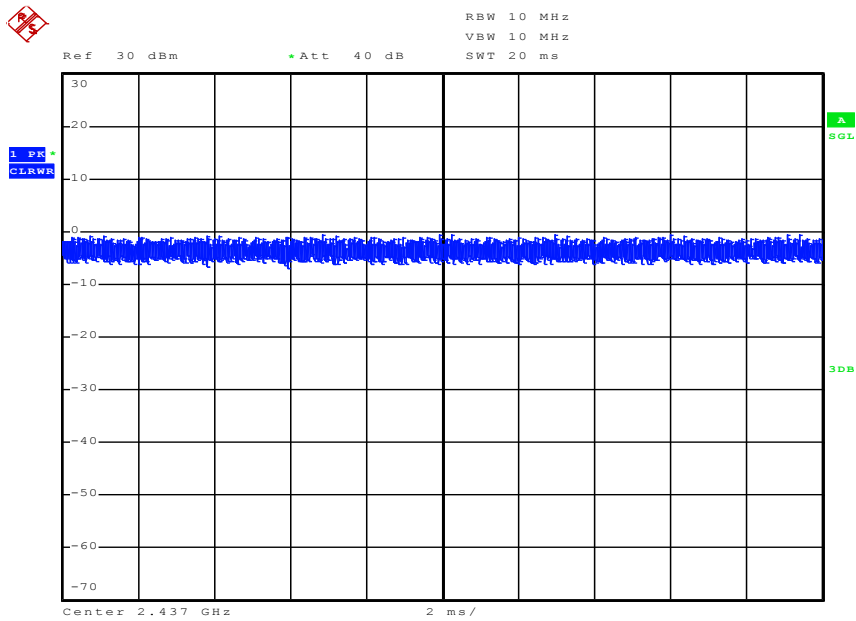
Date: 6.AUG.2019 21:24:47

Duty Cycle_11N20SISO_2437_Ant1



Date: 6.AUG.2019 21:25:13

Duty Cycle_11N40SISO_2437_Ant1



Date: 6.AUG.2019 21:25:39

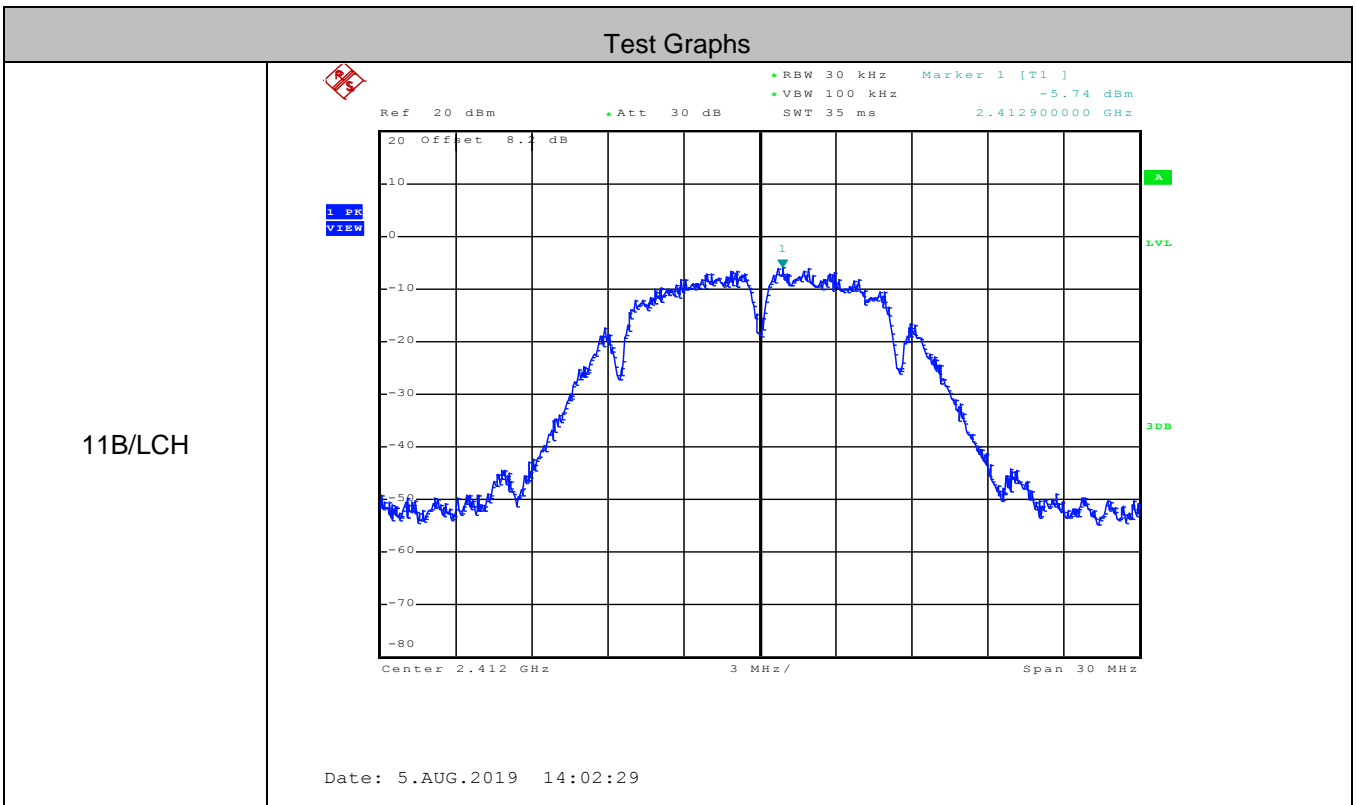
C.2 Maximum Conducted Output Power

Mode	Channel	Meas. Peak Level [dBm]	Meas. Average Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.43	12.16	30	PASS
	MCH	15.23	12.99	30	PASS
	HCH	14.99	12.79	30	PASS
11G	LCH	16.76	13.42	30	PASS
	MCH	16.18	12.83	30	PASS
	HCH	15.68	12.26	30	PASS
11N20SISO	LCH	15.74	12.33	30	PASS
	MCH	15.35	11.74	30	PASS
	HCH	15.64	12.08	30	PASS
11N40SISO	LCH	13.33	8.03	30	PASS
	MCH	13.39	8.10	30	PASS
	HCH	13.65	8.30	30	PASS

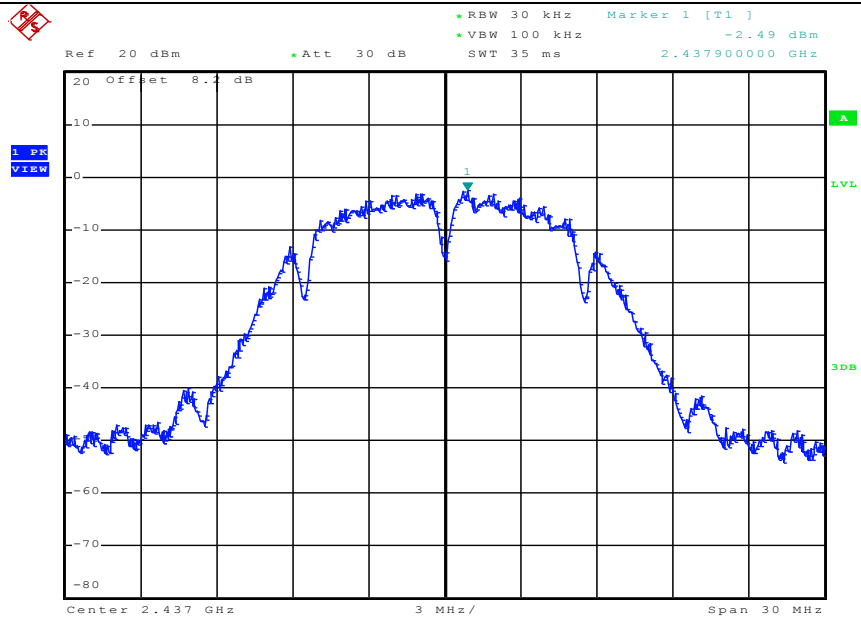
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.740	-10	-15.740	8	PASS
	MCH	-2.490	-10	-12.490	8	PASS
	HCH	-2.680	-10	-12.680	8	PASS
11G	LCH	-4.340	-10	-14.340	8	PASS
	MCH	-6.980	-10	-16.980	8	PASS
	HCH	-7.420	-10	-17.420	8	PASS
11N20SISO	LCH	-7.780	-10	-17.780	8	PASS
	MCH	-7.610	-10	-17.610	8	PASS
	HCH	-7.840	-10	-17.840	8	PASS
11N40SISO	LCH	-11.620	-10	-21.620	8	PASS
	MCH	-12.130	-10	-22.130	8	PASS
	HCH	-10.790	-10	-20.790	8	PASS

***Note: The Convert Factor = $10 \cdot \log(3\text{KHz}/30\text{KHz}) = -10$

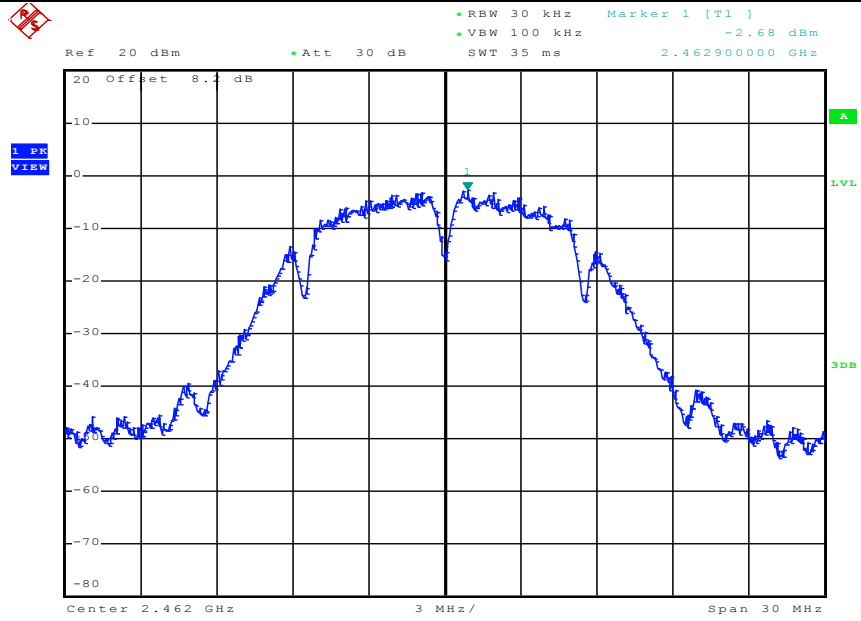


11B/MCH



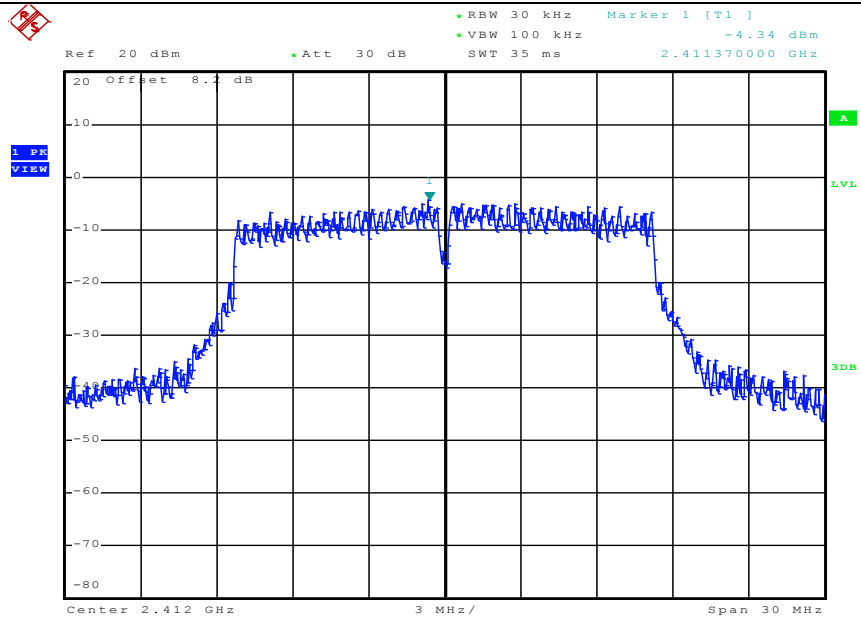
Date: 5.AUG.2019 14:08:02

11B/HCH



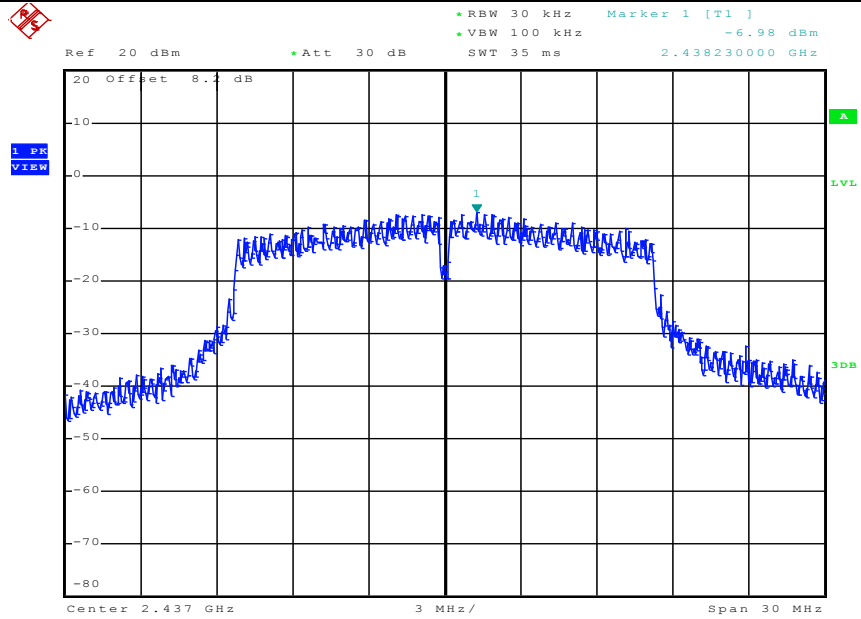
Date: 5.AUG.2019 14:09:56

11G/LCH



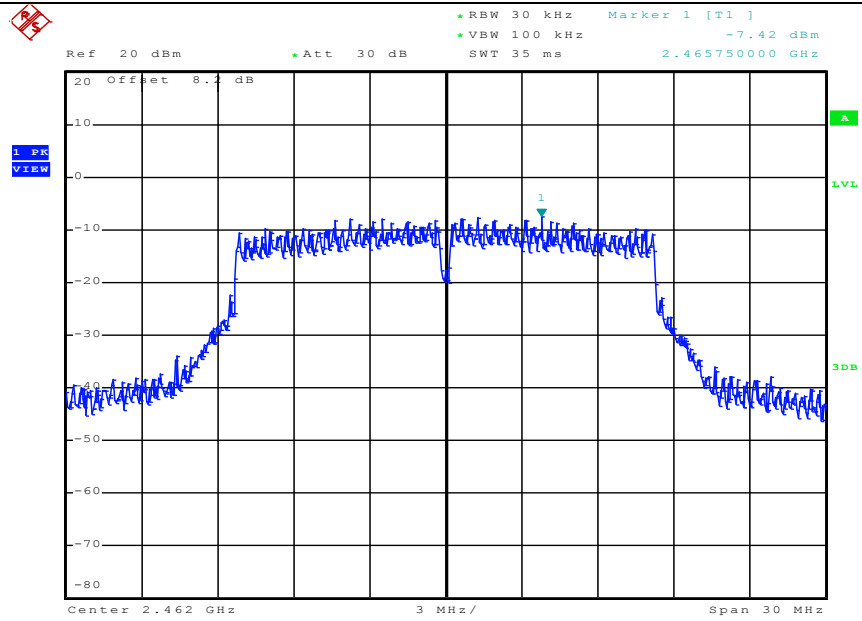
Date: 5.AUG.2019 14:13:28

11G/MCH



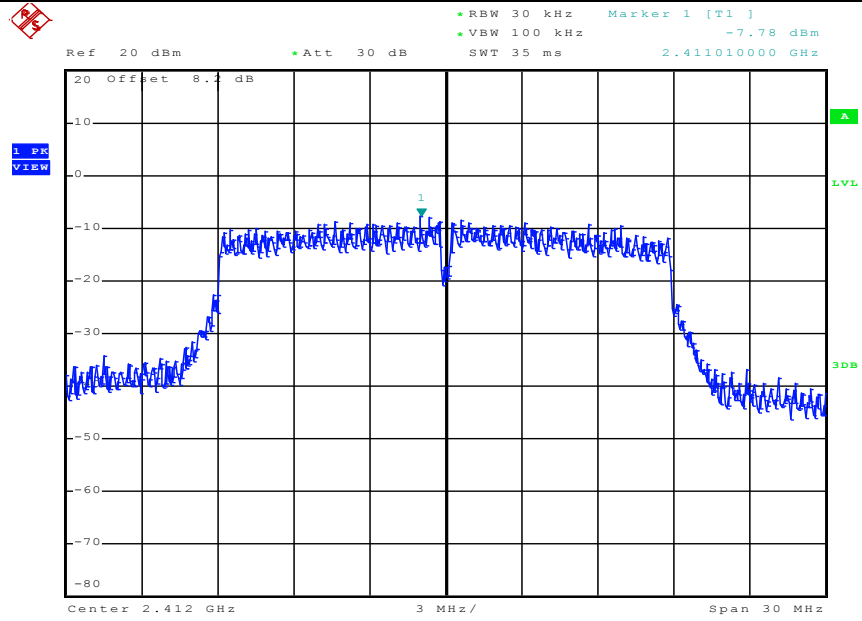
Date: 6.AUG.2019 14:23:35

11G/HCH



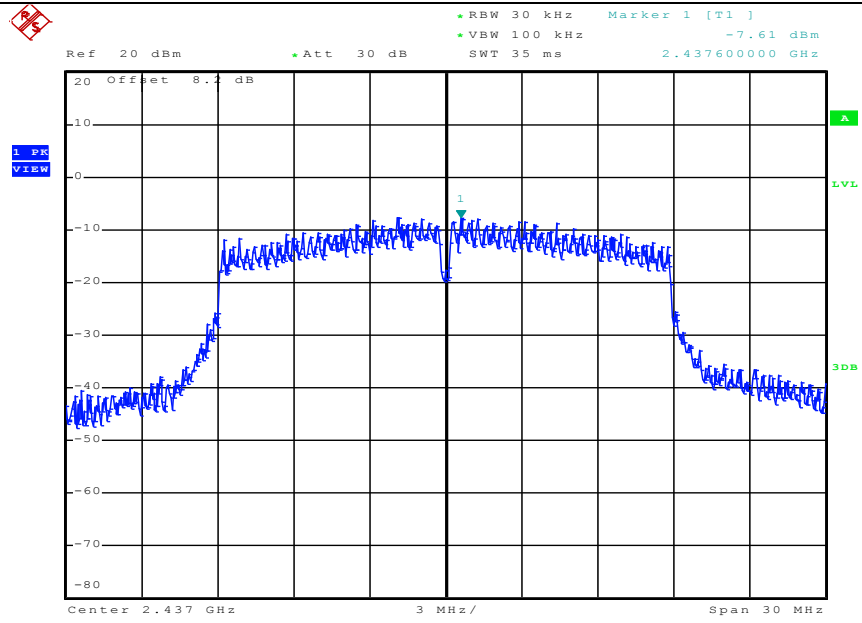
Date: 6.AUG.2019 14:26:14

11N20SISO/LCH



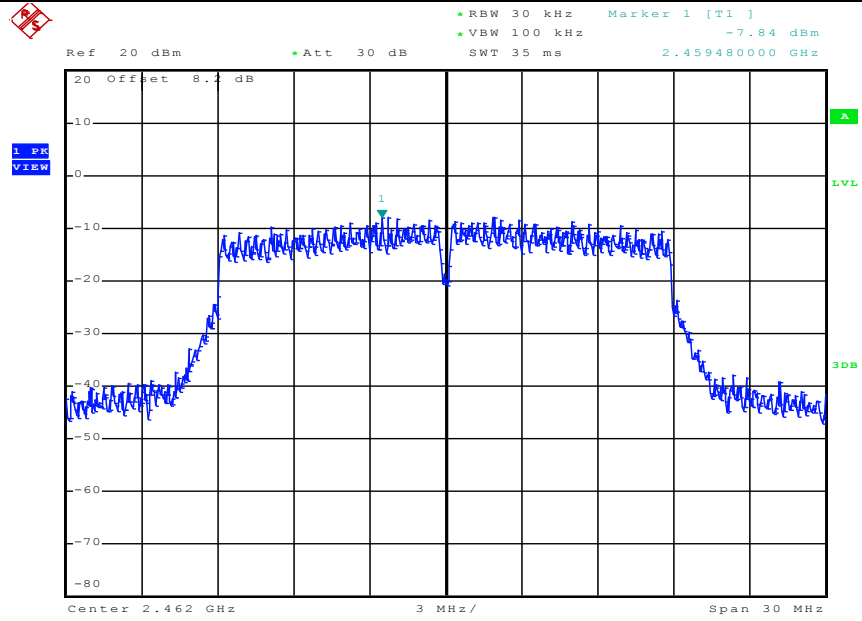
Date: 6.AUG.2019 14:28:56

11N20SISO/MCH



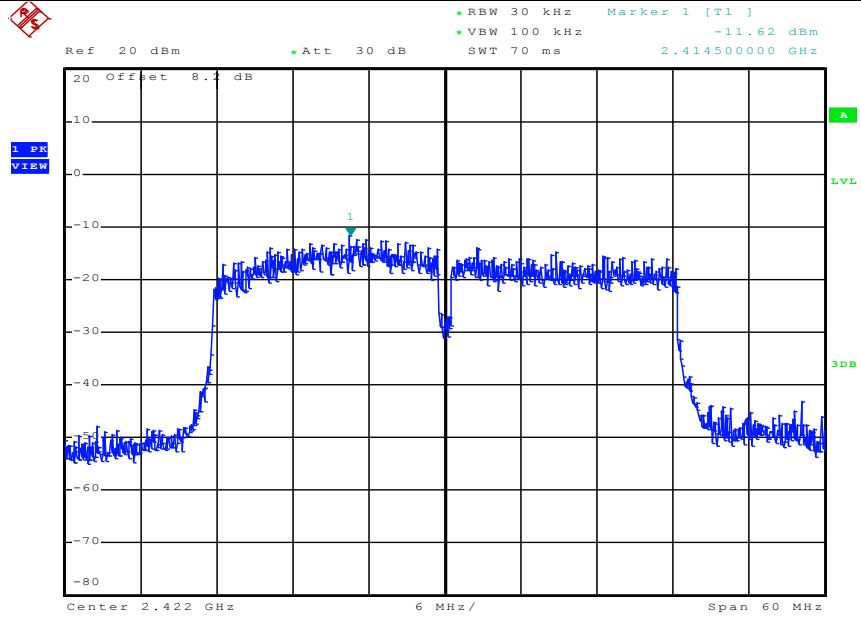
Date: 6.AUG.2019 14:32:18

11N20SISO/HCH



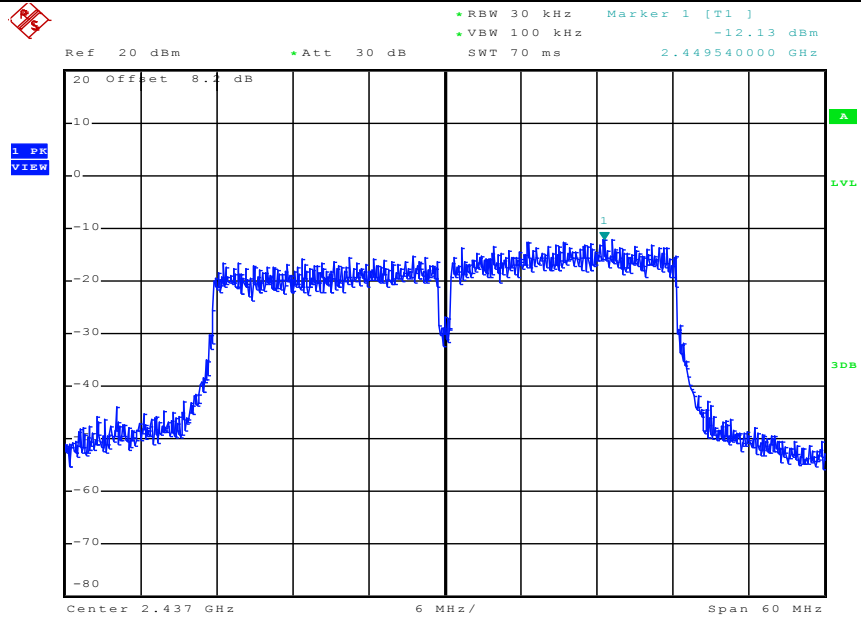
Date: 6.AUG.2019 14:36:04

11N40SISO/LCH



Date: 6.AUG.2019 21:21:33

11N40SISO/MCH

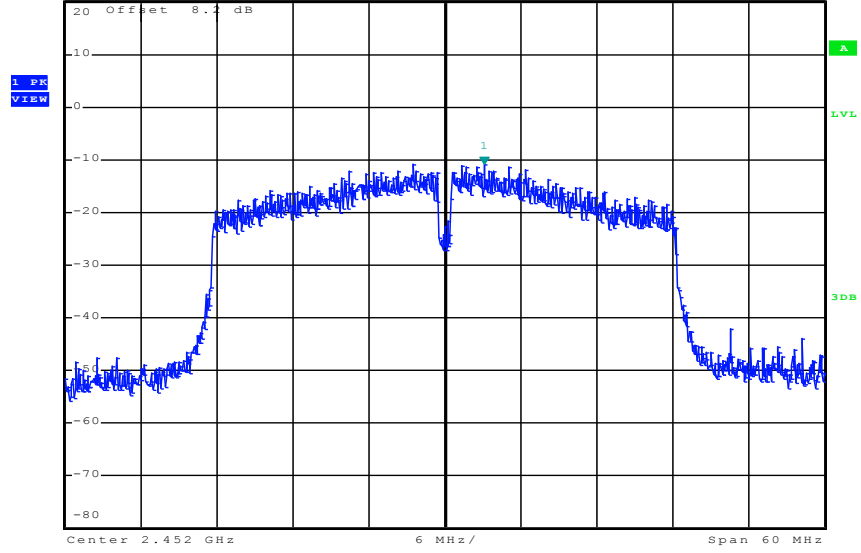


Date: 6.AUG.2019 21:16:15

11N40SISO/HCH



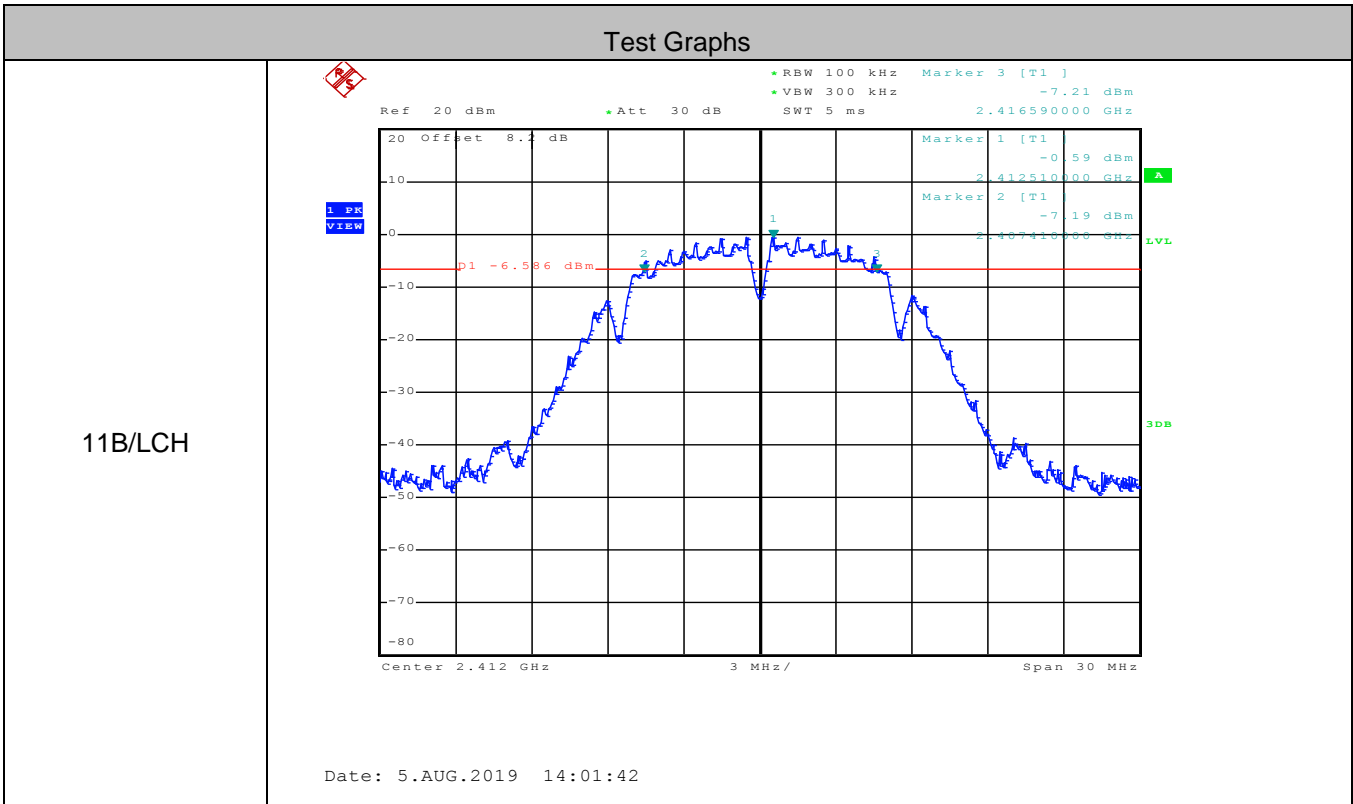
Ref 20 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -10.79 dBm
VBW 100 kHz SWT 70 ms 2.455120000 GHz



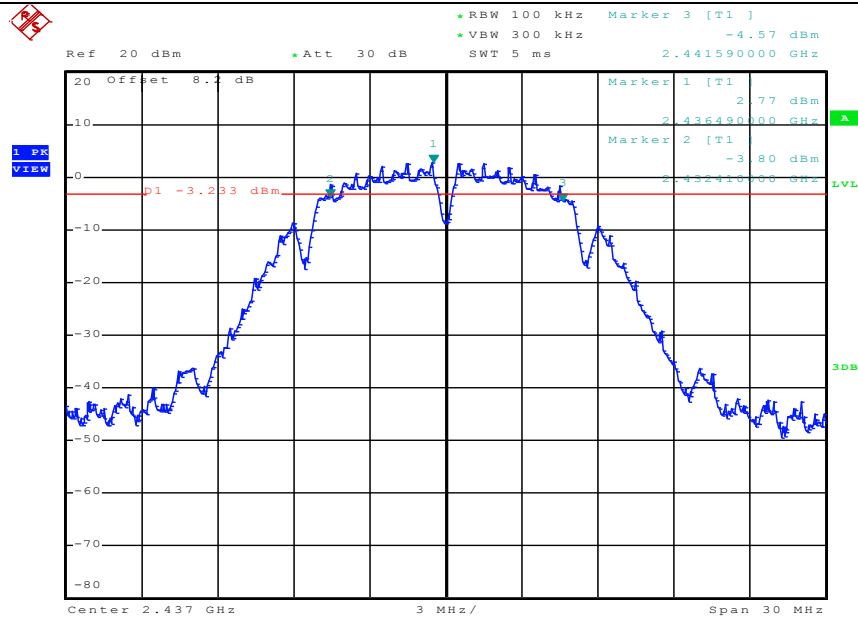
Date: 6.AUG.2019 21:18:39

C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.180	≥0.5	PASS
	MCH	9.180	≥0.5	PASS
	HCH	9.120	≥0.5	PASS
11G	LCH	16.470	≥0.5	PASS
	MCH	16.020	≥0.5	PASS
	HCH	16.440	≥0.5	PASS
11N20SISO	LCH	17.760	≥0.5	PASS
	MCH	17.190	≥0.5	PASS
	HCH	17.700	≥0.5	PASS
11N40SISO	LCH	34.020	≥0.5	PASS
	MCH	35.460	≥0.5	PASS
	HCH	23.880	≥0.5	PASS

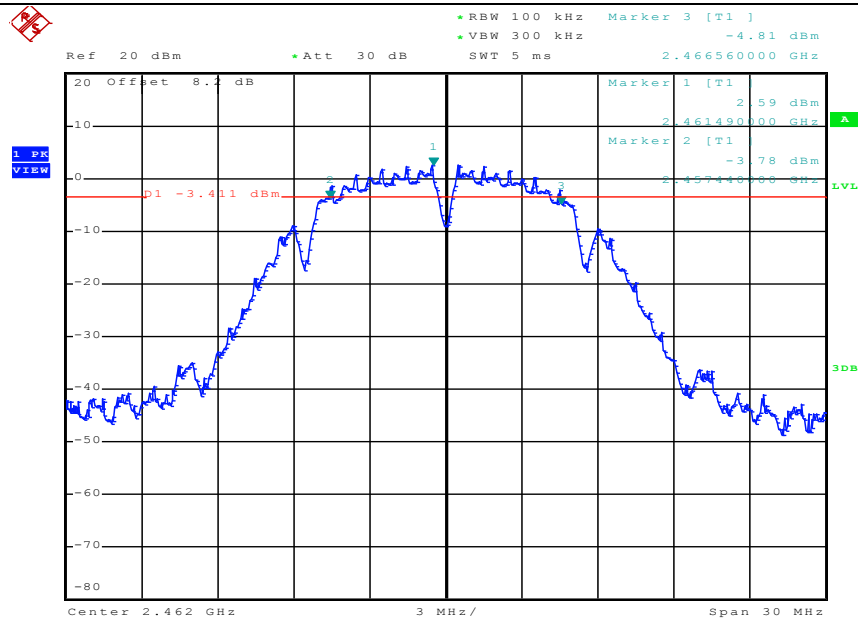


11B/MCH



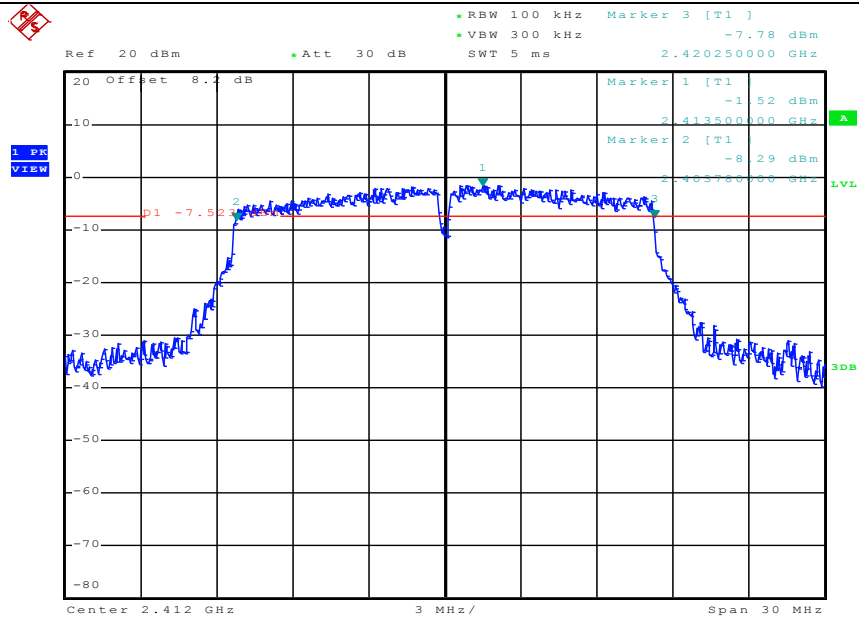
Date: 5.AUG.2019 14:07:15

11B/HCH



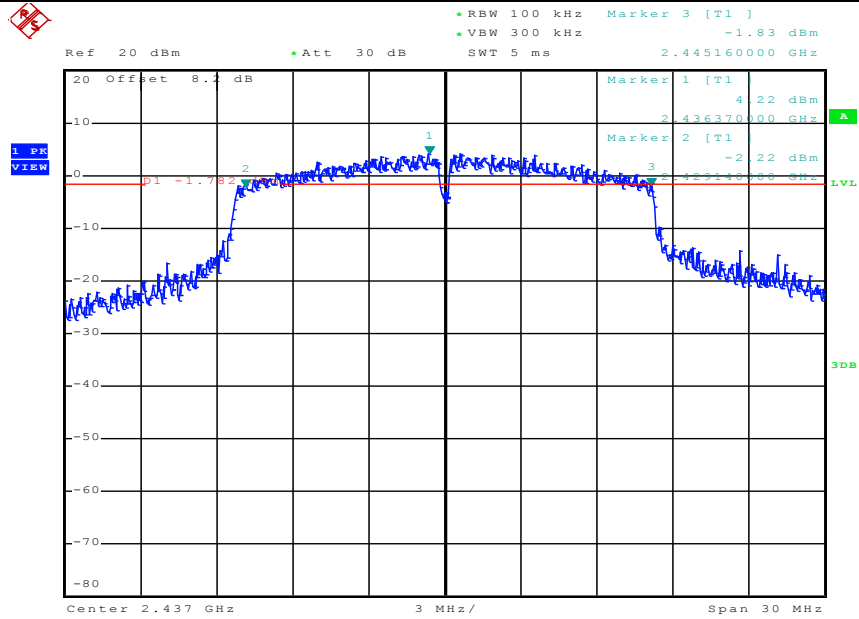
Date: 5.AUG.2019 14:09:09

11G/LCH



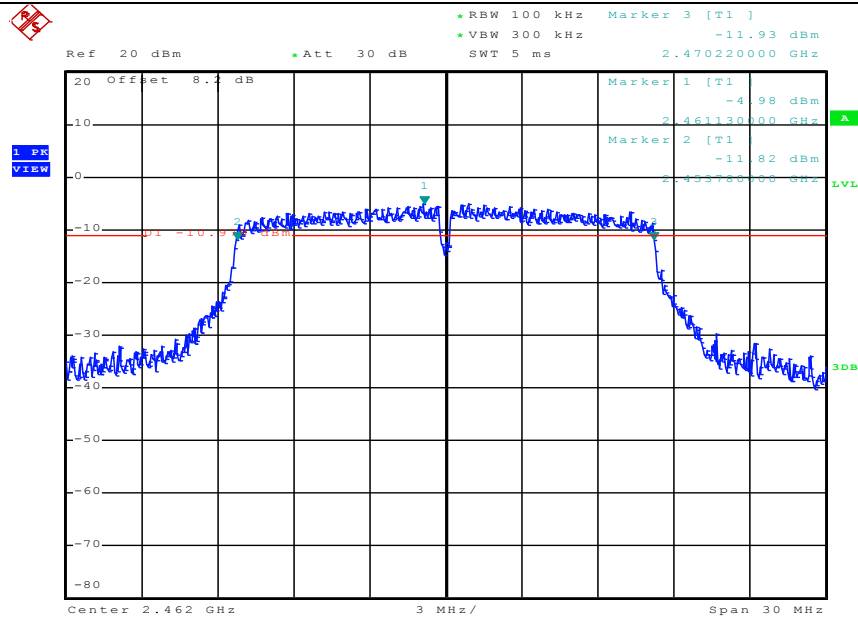
Date: 5.AUG.2019 14:12:41

11G/MCH



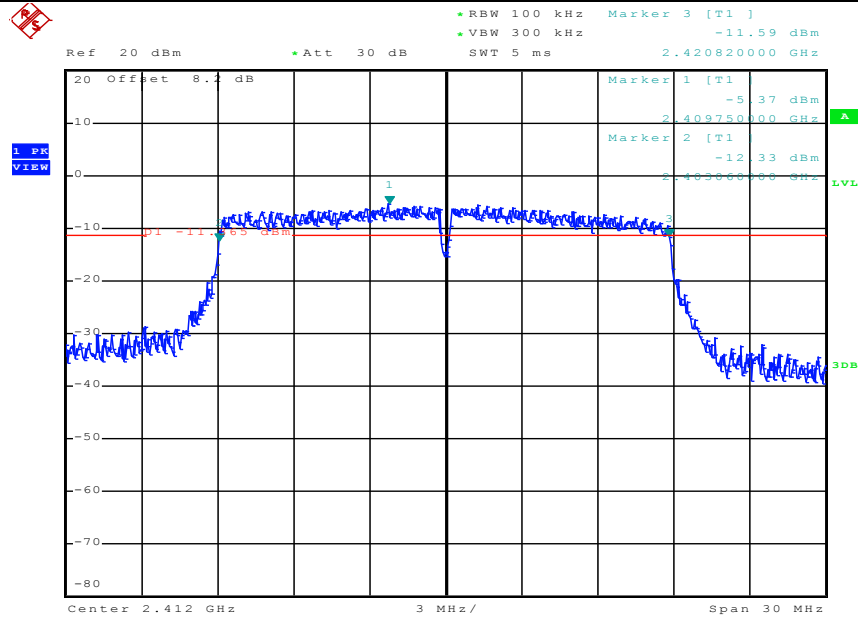
Date: 6.AUG.2019 14:21:38

11G/HCH



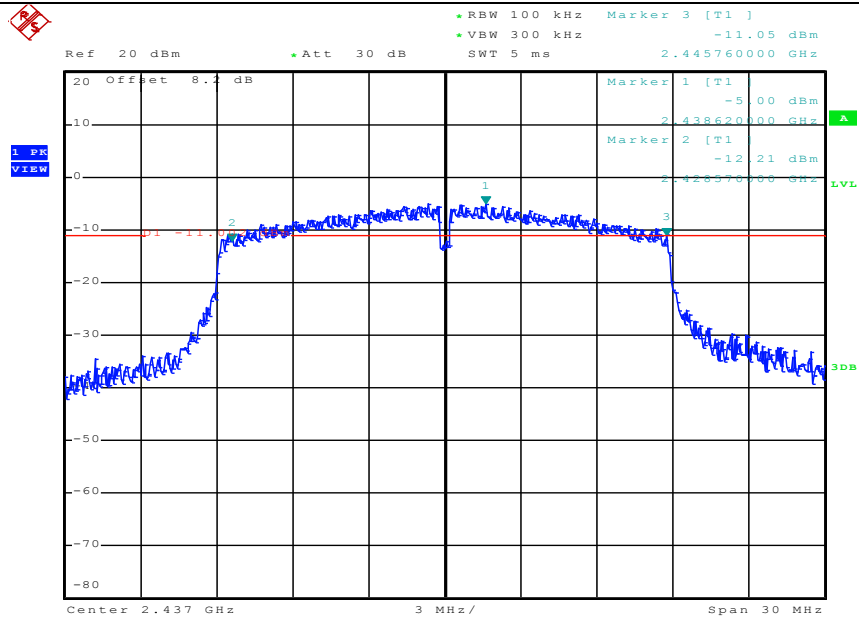
Date: 6.AUG.2019 14:25:27

11N20SISO/LCH



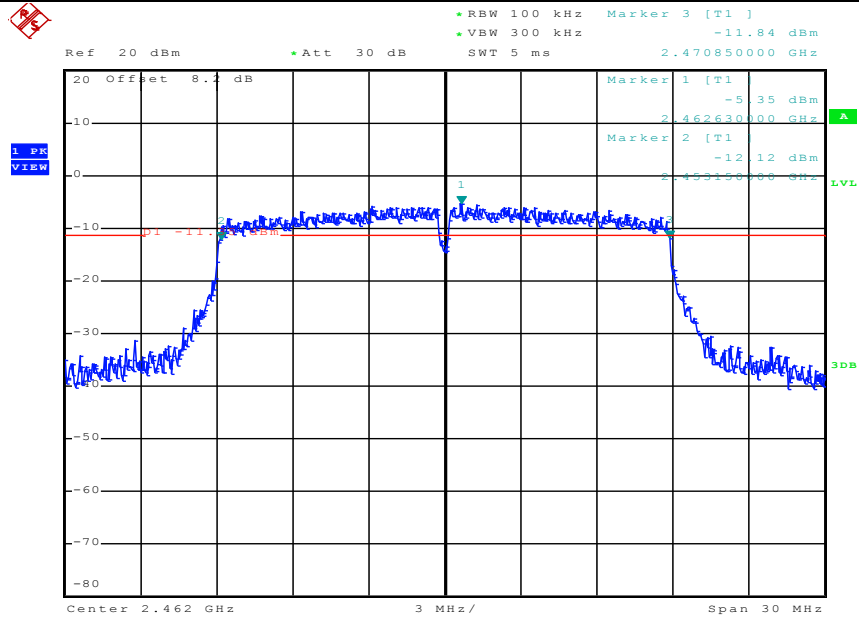
Date: 6.AUG.2019 14:28:08

11N20SISO/MCH



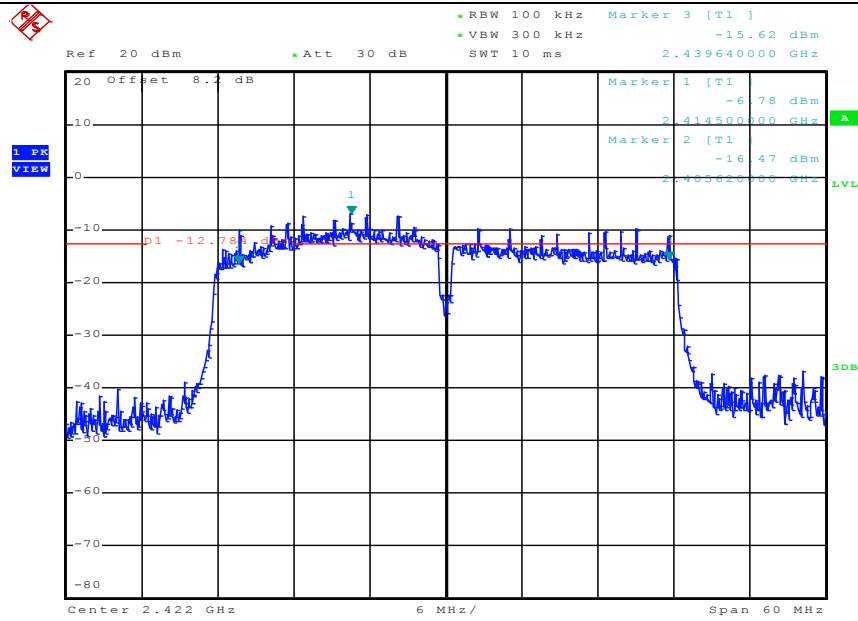
Date: 6.AUG.2019 14:31:31

11N20SISO/HCH



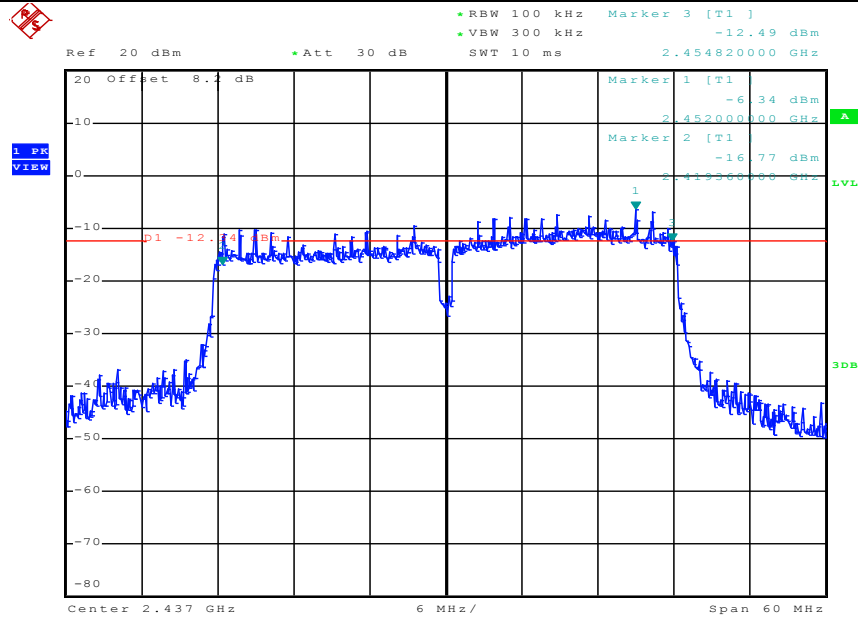
Date: 6.AUG.2019 14:35:17

11N40SISO/LCH



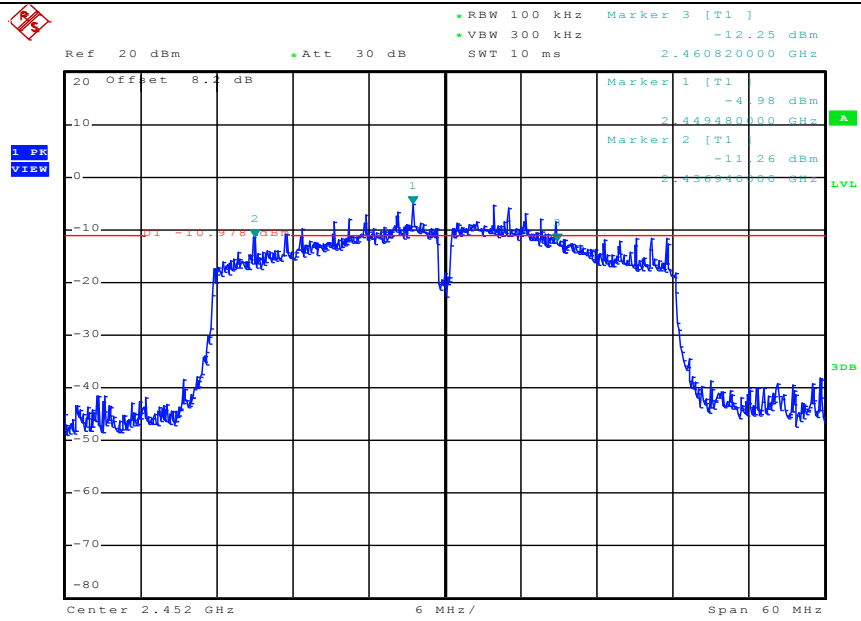
Date: 6.AUG.2019 21:20:46

11N40SISO/MCH



Date: 6.AUG.2019 21:15:28

11N40SISO/HCH

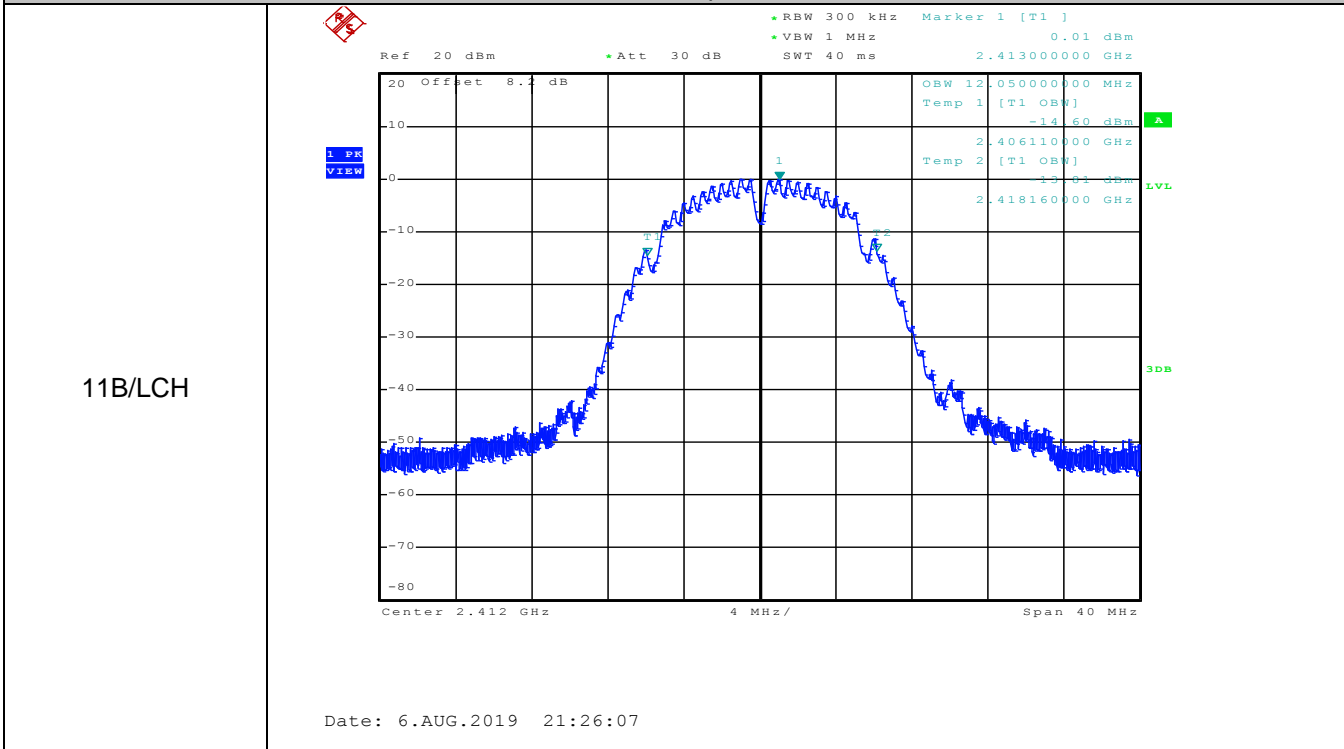


Date: 6.AUG.2019 21:17:52

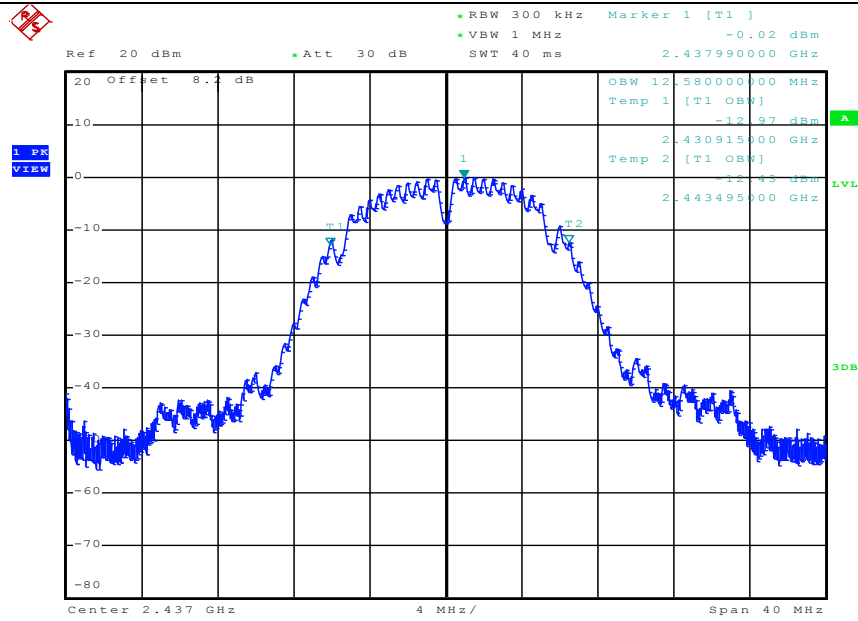
C.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	12.050	≥0.5	PASS
	MCH	12.580	≥0.5	PASS
	HCH	12.725	≥0.5	PASS
11G	LCH	16.315	≥0.5	PASS
	MCH	16.800	≥0.5	PASS
	HCH	16.705	≥0.5	PASS
11N20SISO	LCH	17.395	≥0.5	PASS
	MCH	17.780	≥0.5	PASS
	HCH	17.720	≥0.5	PASS
11N40SISO	LCH	35.730	≥0.5	PASS
	MCH	36.190	≥0.5	PASS
	HCH	35.290	≥0.5	PASS

Test Graphs

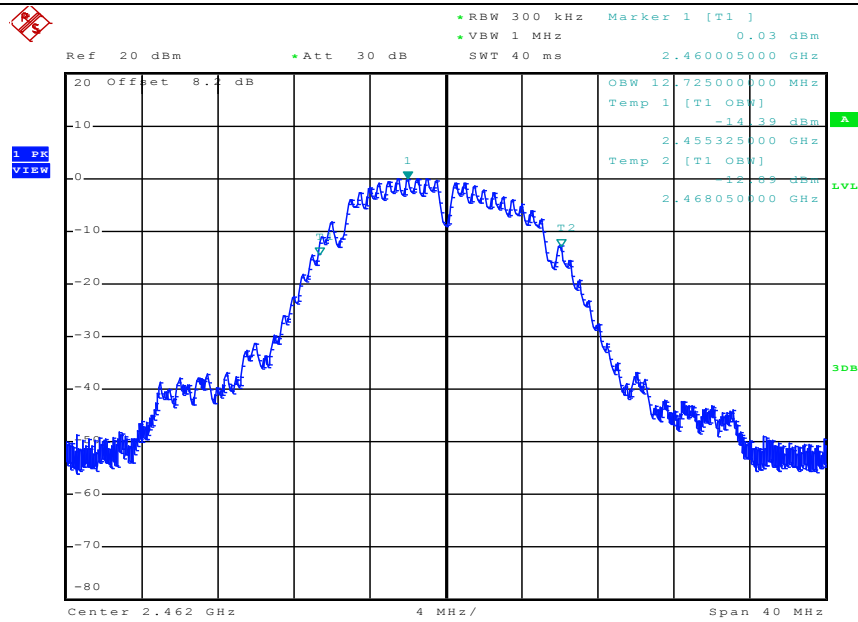


11B/MCH



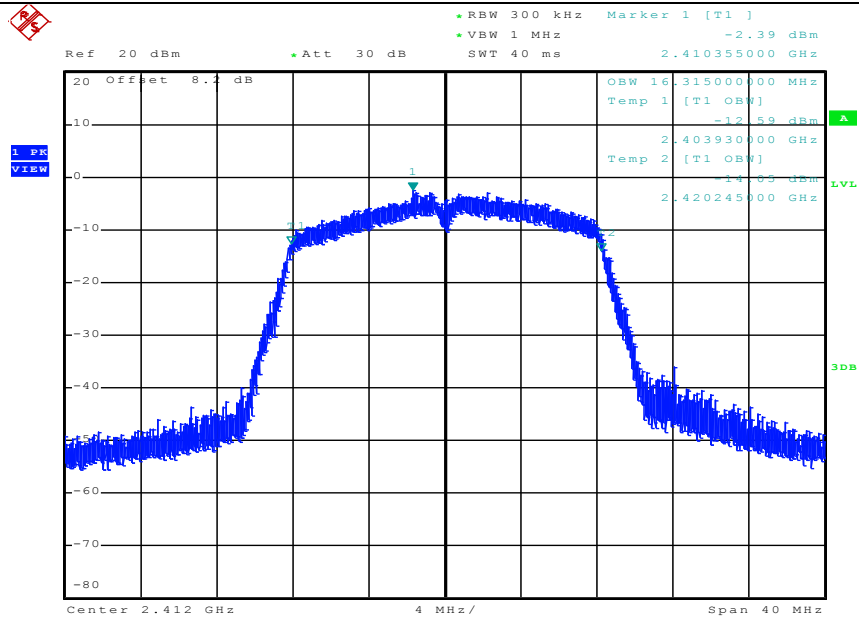
Date: 6.AUG.2019 21:26:32

11B/HCH



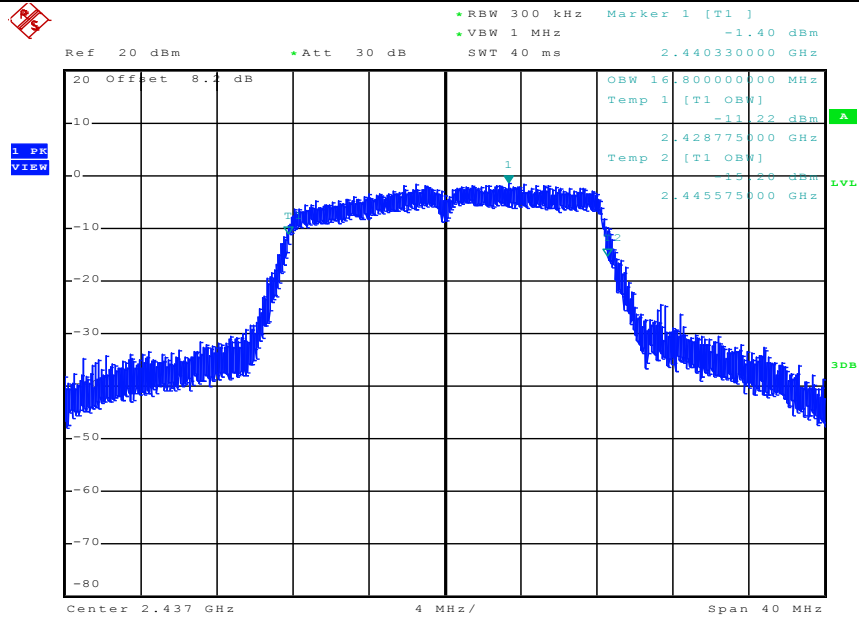
Date: 6.AUG.2019 21:26:59

11G/LCH



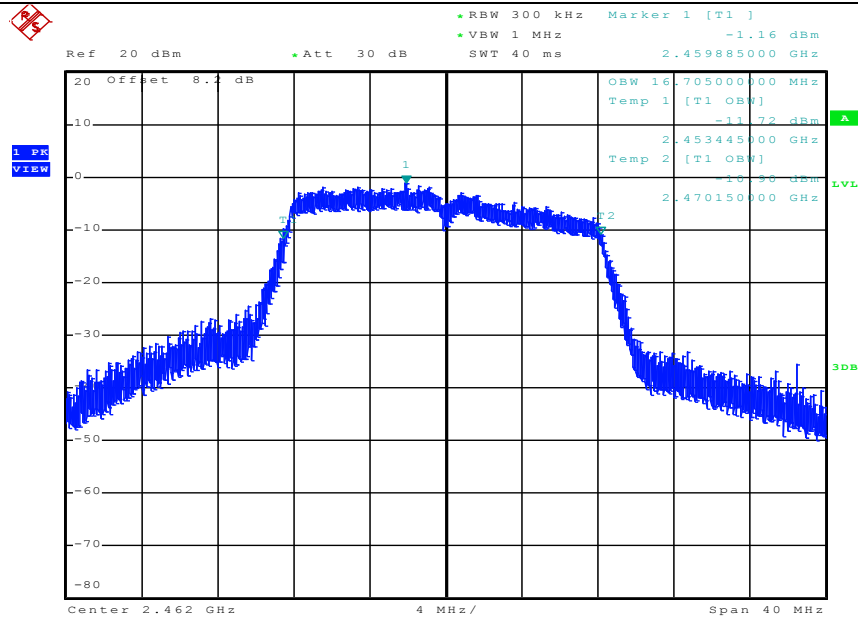
Date: 6.AUG.2019 21:27:31

11G/MCH



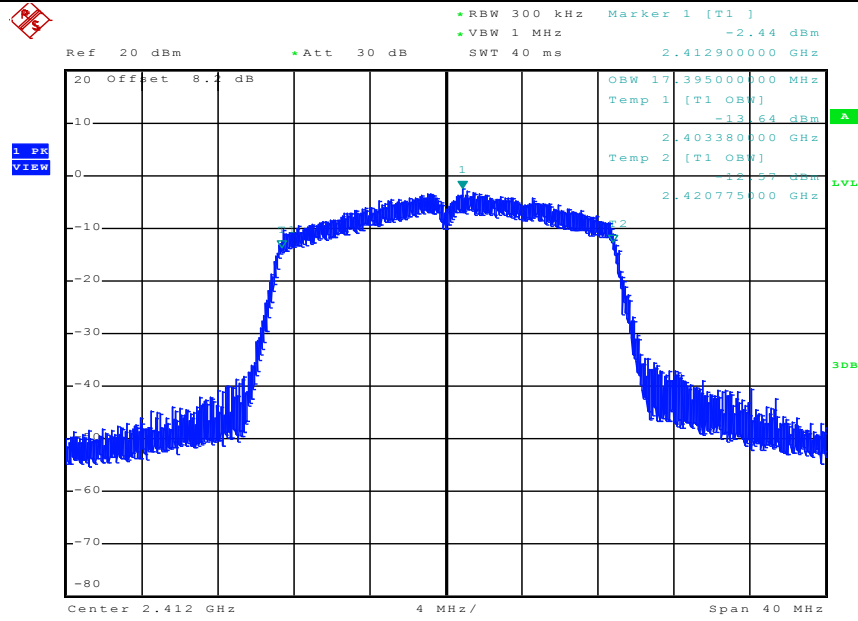
Date: 6.AUG.2019 21:27:53

11G/HCH



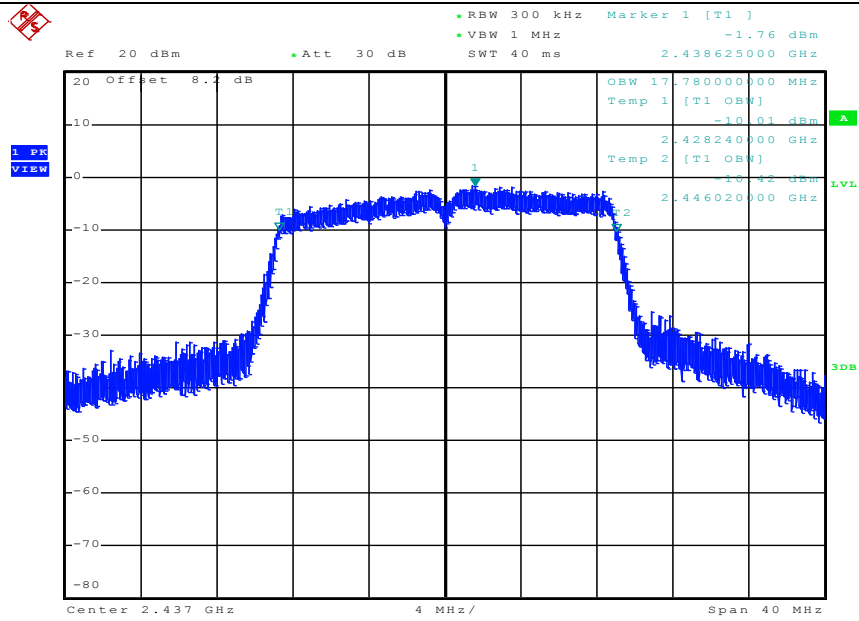
Date: 6.AUG.2019 21:28:19

11N20SISO/LCH



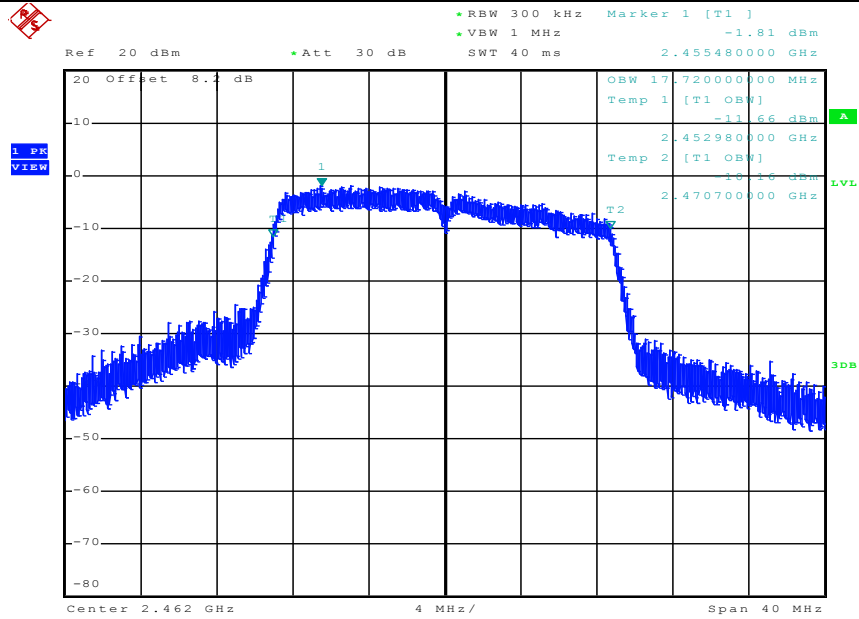
Date: 6.AUG.2019 21:28:47

11N20SISO/MCH



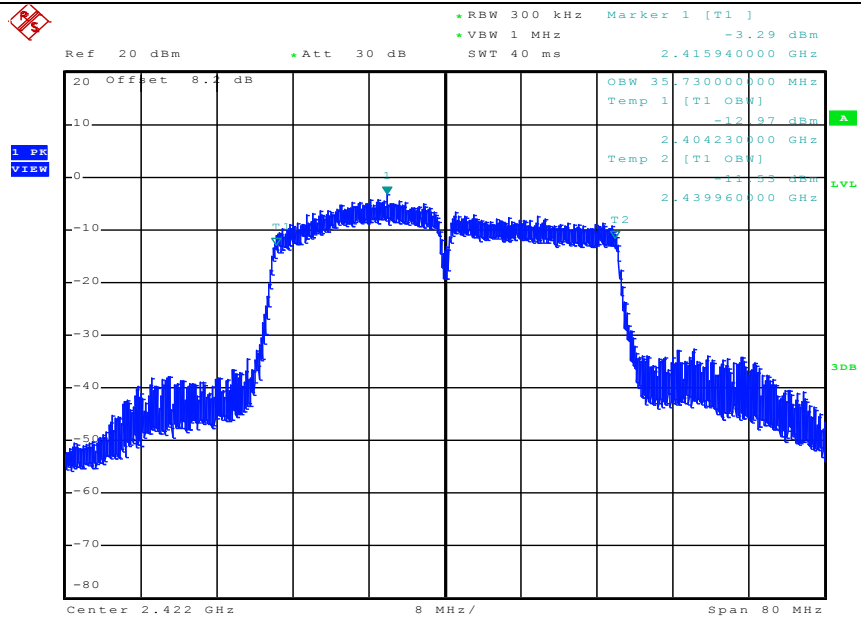
Date: 6.AUG.2019 21:29:09

11N20SISO/HCH



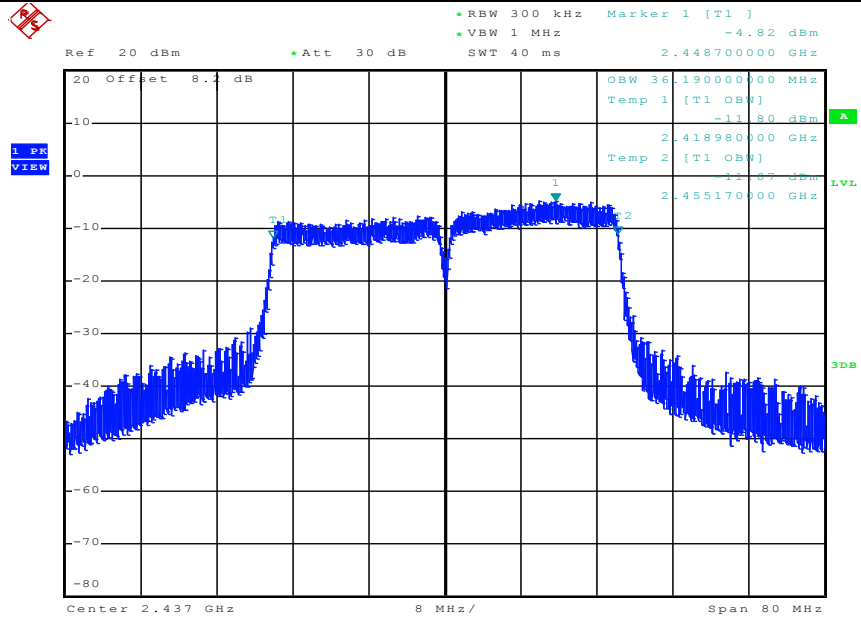
Date: 6.AUG.2019 21:29:35

11N40SISO/LCH



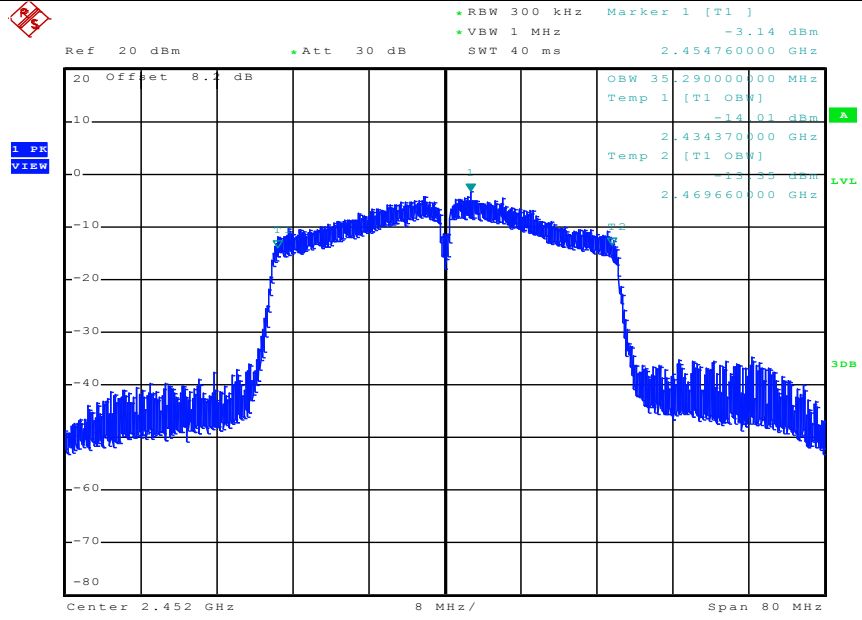
Date: 6.AUG.2019 21:30:04

11N40SISO/MCH



Date: 6.AUG.2019 21:30:45

11N40SISO/HCH



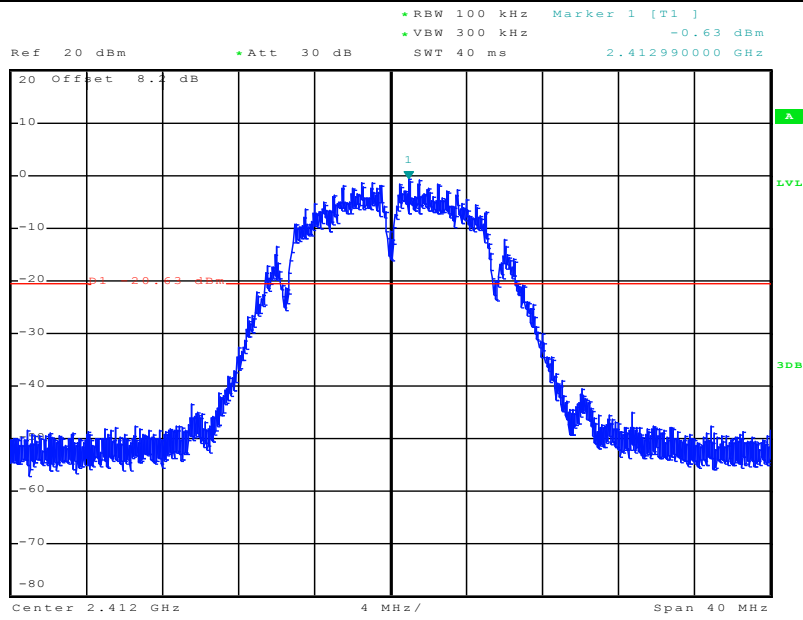
Date: 6.AUG.2019 21:31:15

C.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.63	-31.810	-20.630	PASS
	MCH	-0.3	-32.620	-20.300	PASS
	HCH	-0.83	-32.360	-20.830	PASS
11G	LCH	-5.41	-32.560	-25.410	PASS
	MCH	-3.75	-32.220	-23.750	PASS
	HCH	-3.81	-31.260	-23.810	PASS
11N20 SISO	LCH	-5.73	-31.650	-25.730	PASS
	MCH	-3.62	-31.520	-23.620	PASS
	HCH	-5.61	-32.560	-25.610	PASS
11N40 SISO	LCH	-6.82	-32.170	-26.820	PASS
	MCH	-6.4	-32.160	-26.400	PASS
	HCH	-5.65	-31.980	-25.650	PASS

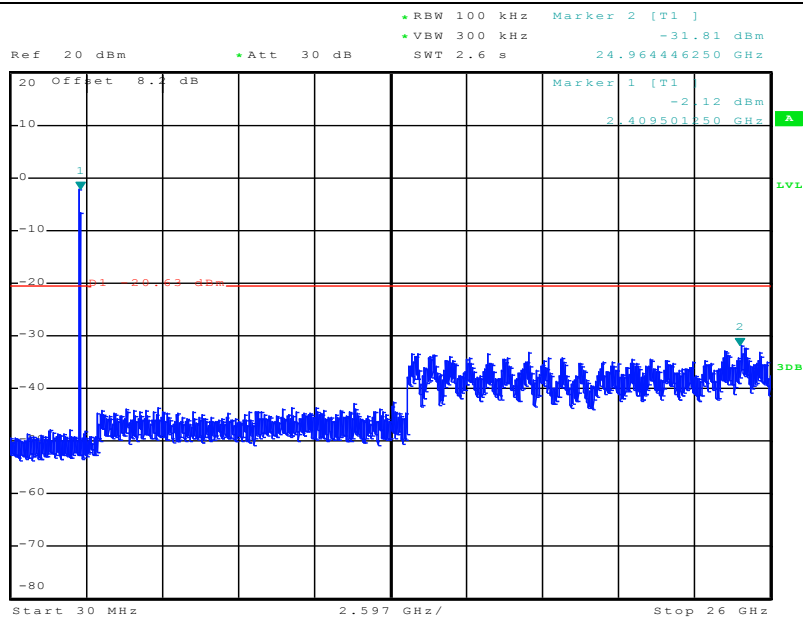
11B_LCH_Graphs

Pref/11B/LCH



Date: 6.AUG.2019 21:34:38

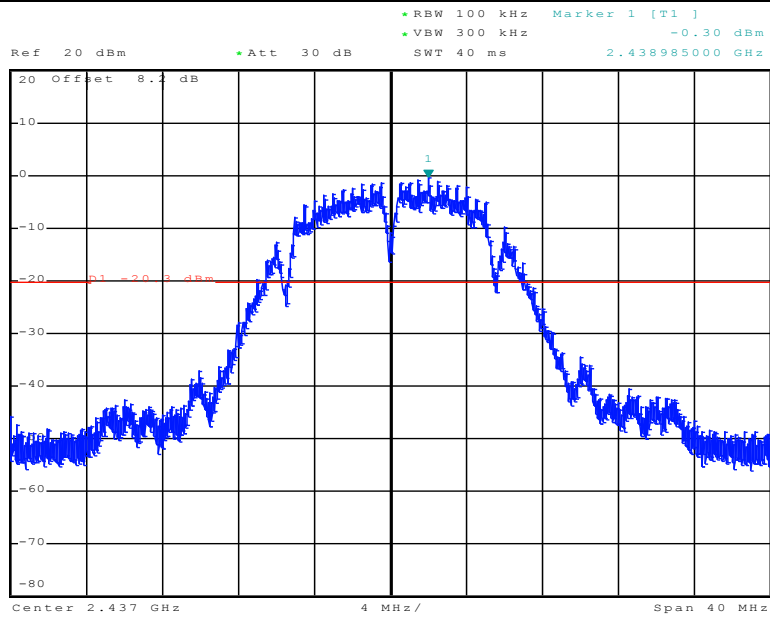
Puw/11B/LCH



Date: 6.AUG.2019 21:34:53

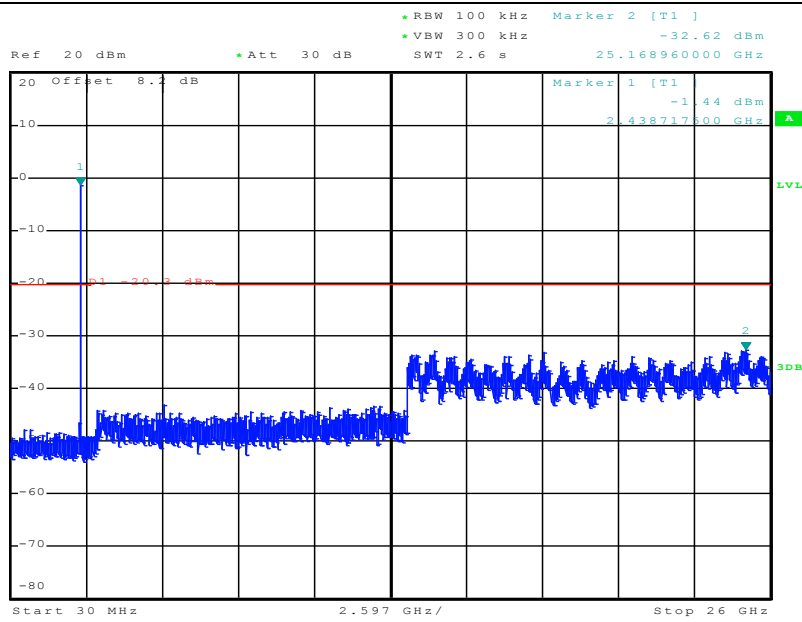
11B_MCH_Graphs

Pref/11B/MCH



Date: 6.AUG.2019 21:35:53

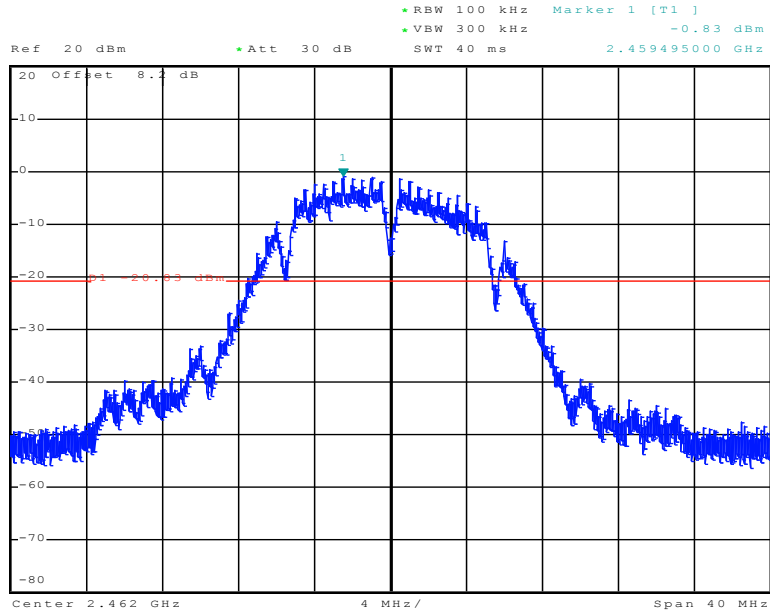
Puw/11B/MCH



Date: 6.AUG.2019 21:36:23

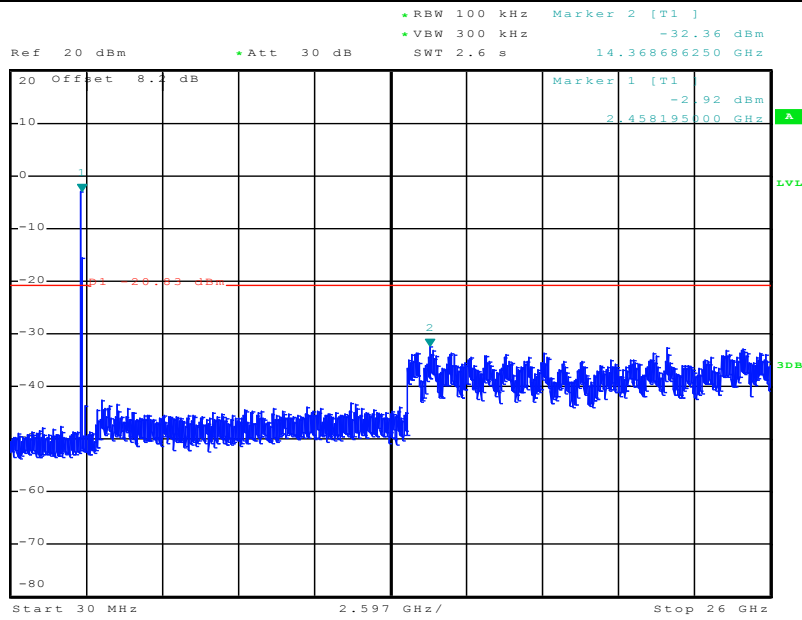
11B_HCH_Graphs

Pref/11B/HCH



Date: 6.AUG.2019 21:36:49

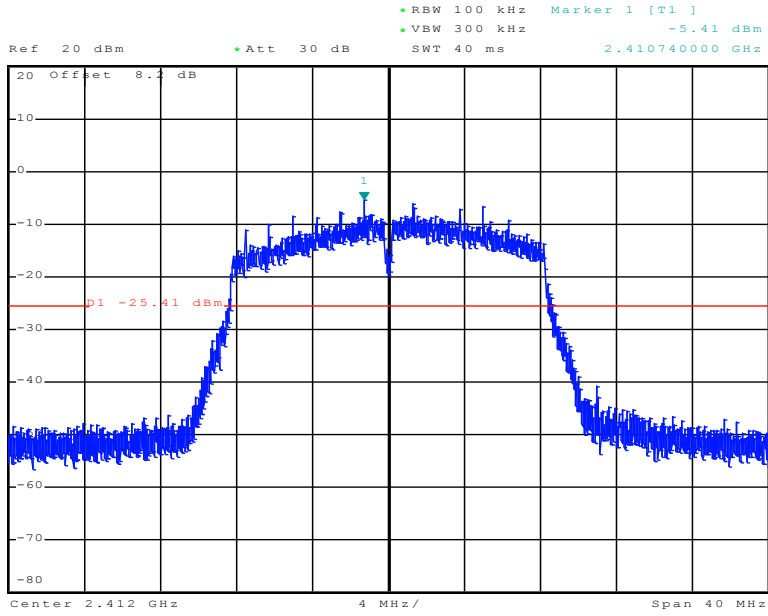
Puw/11B/HCH



Date: 6.AUG.2019 21:37:04

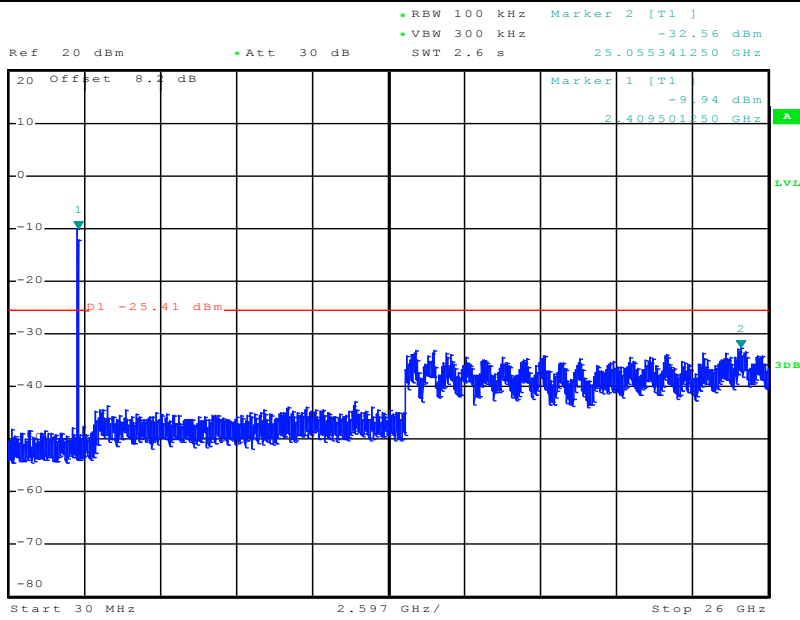
11G_LCH_Graphs

Pref/11G/LCH



Date: 6.AUG.2019 21:38:00

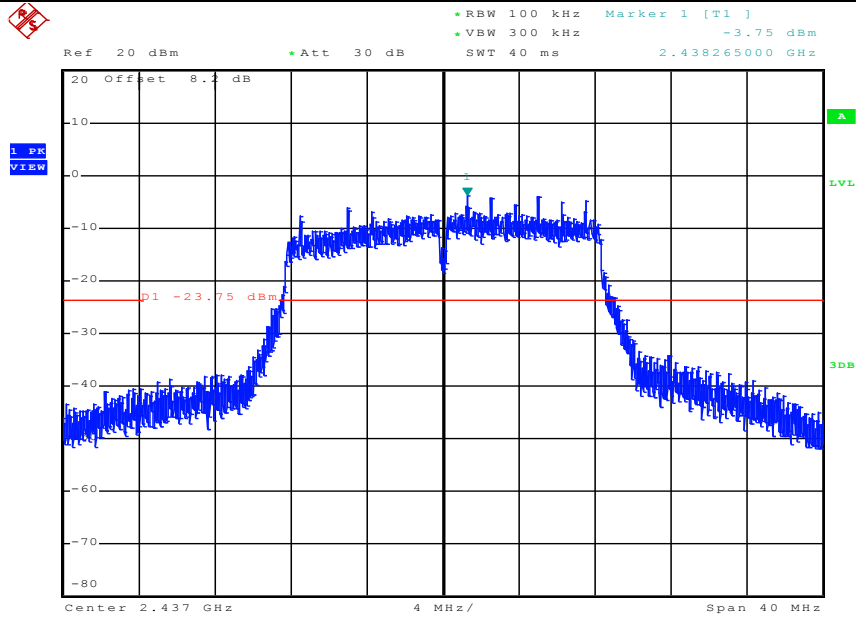
Puw/11G/LCH



Date: 6.AUG.2019 21:38:22

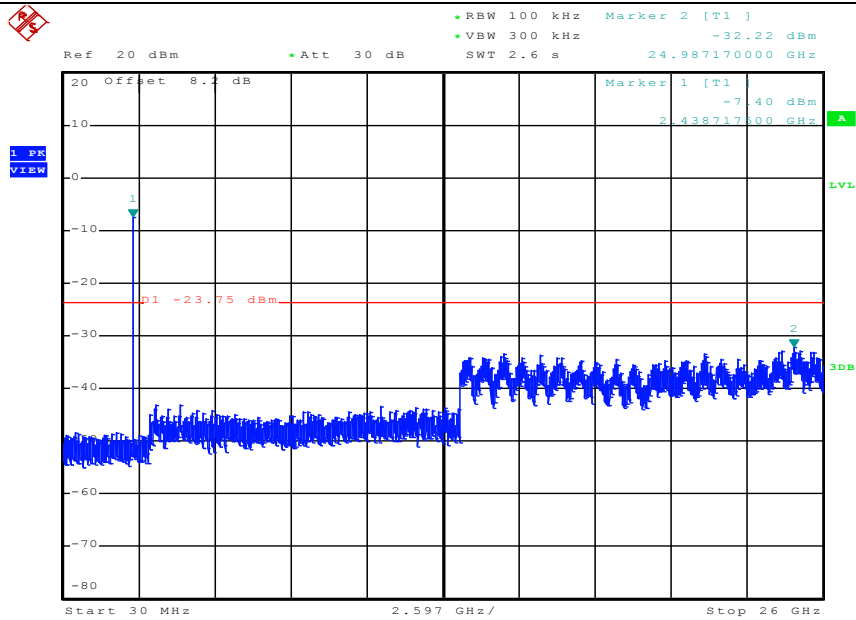
11G_MCH_Graphs

Pref/11G/MCH



Date: 6.AUG.2019 21:39:28

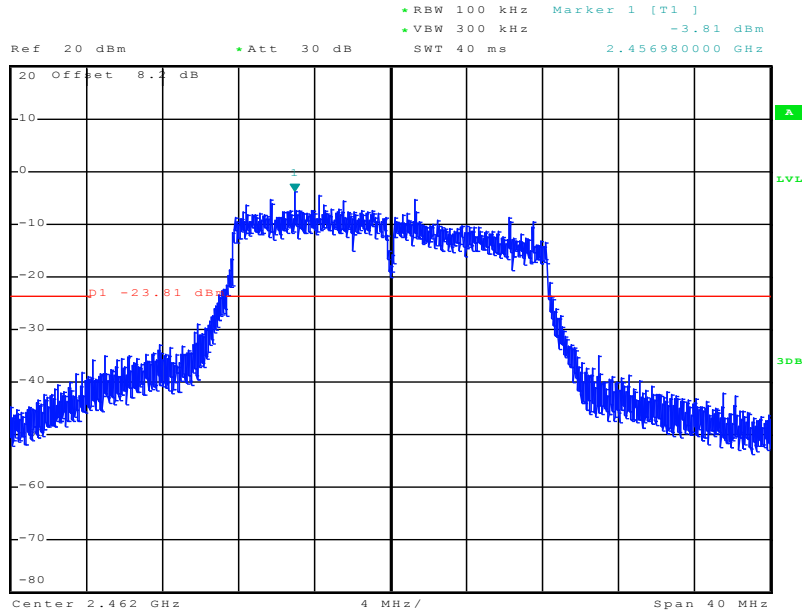
Puw/11G/MCH



Date: 6.AUG.2019 21:40:04

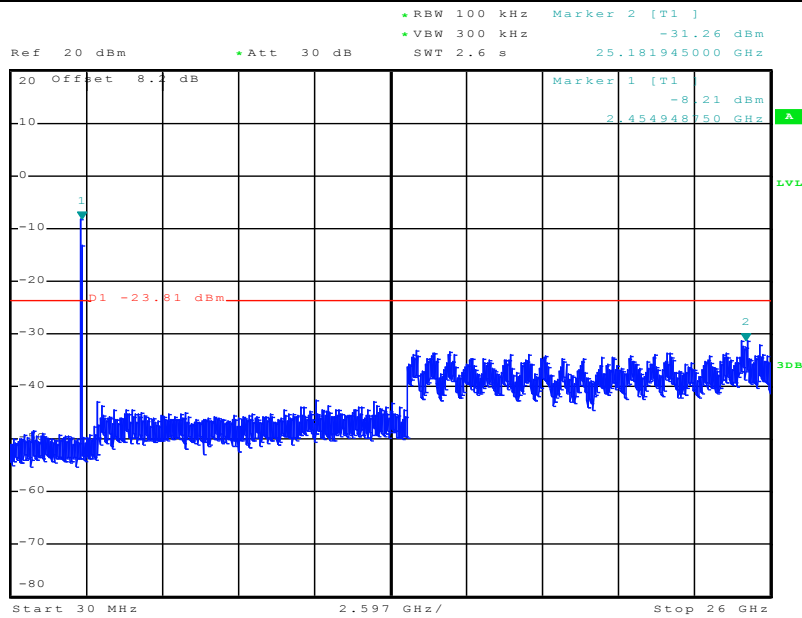
11G_HCH_Graphs

Pref/11G/HCH



Date: 6.AUG.2019 21:40:32

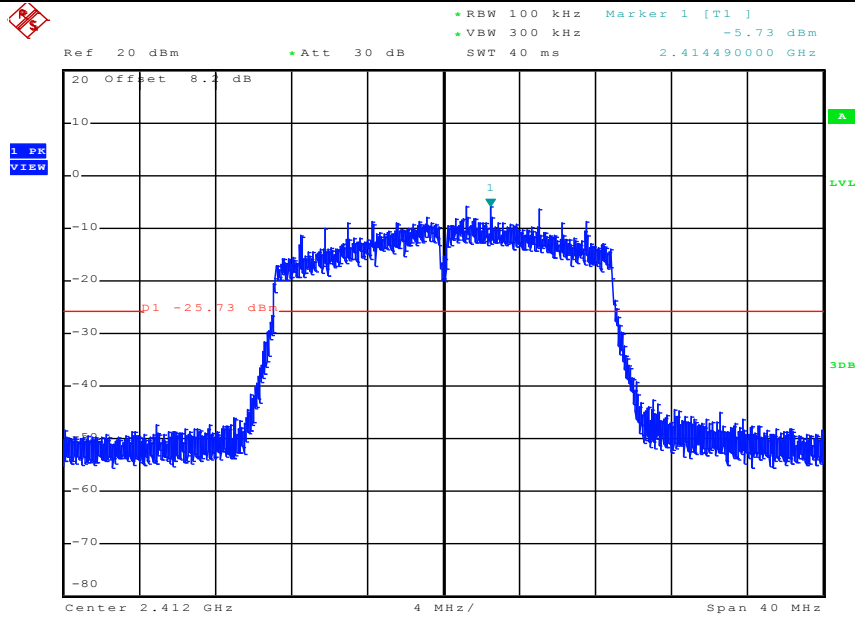
Puw/11G/HCH



Date: 6.AUG.2019 21:40:59

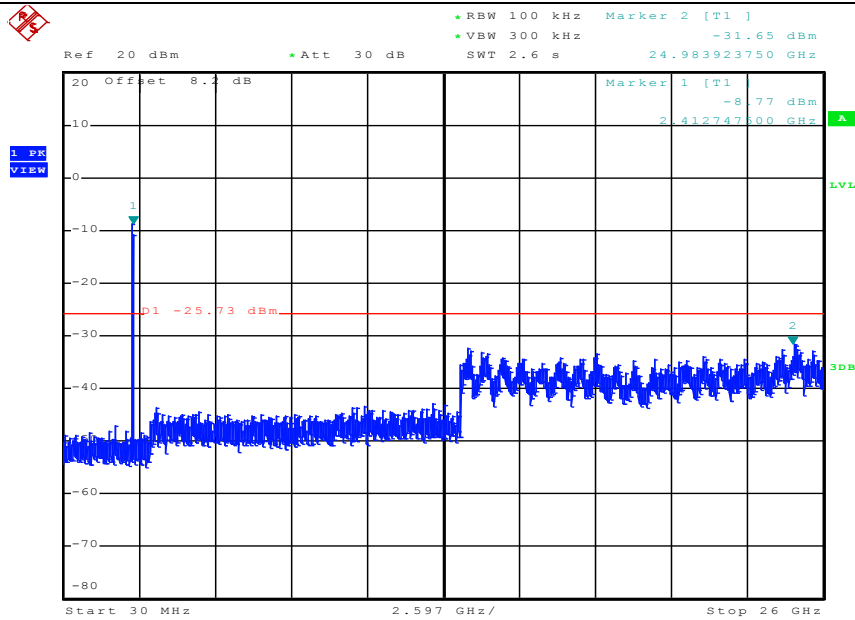
11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH



Date: 6.AUG.2019 21:42:06

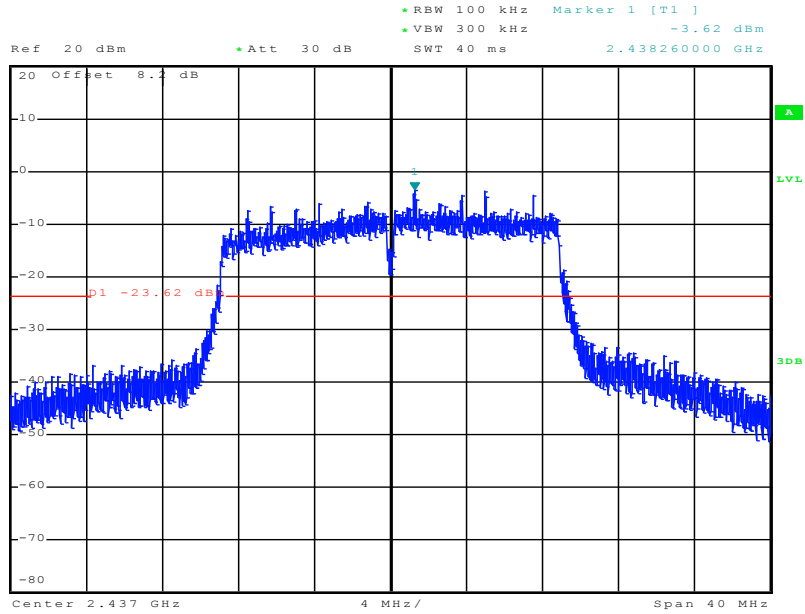
Puw/11N20
SISO/LCH



Date: 6.AUG.2019 21:42:29

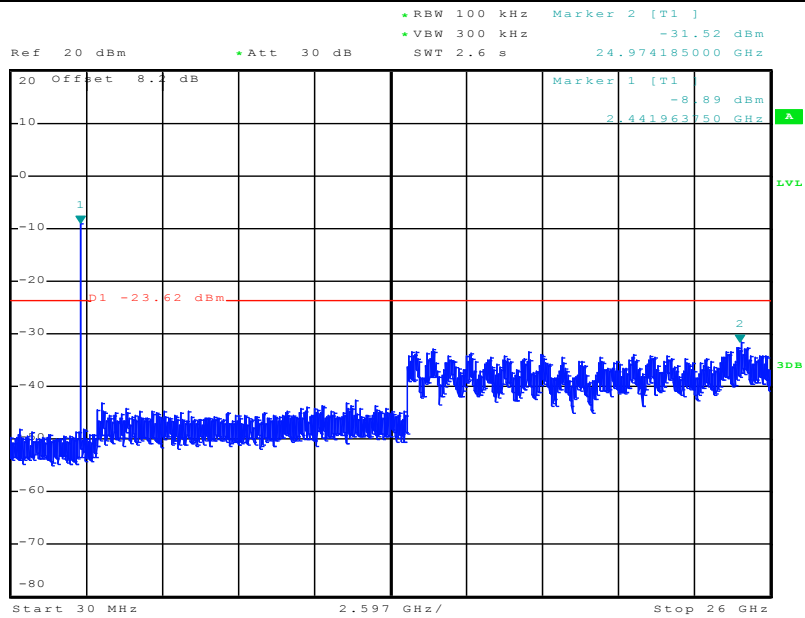
11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH



Date: 6.AUG.2019 21:44:19

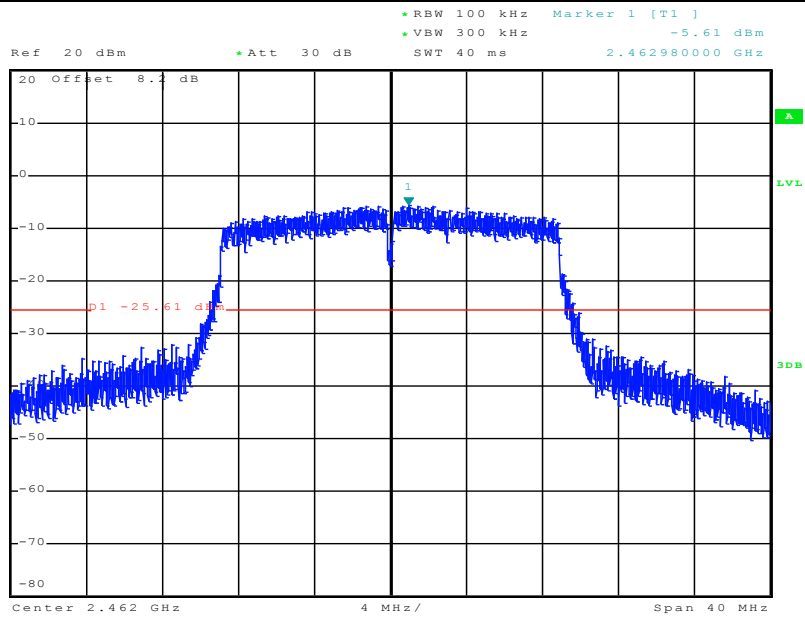
Puw/11N20
SISO/MCH



Date: 6.AUG.2019 21:44:49

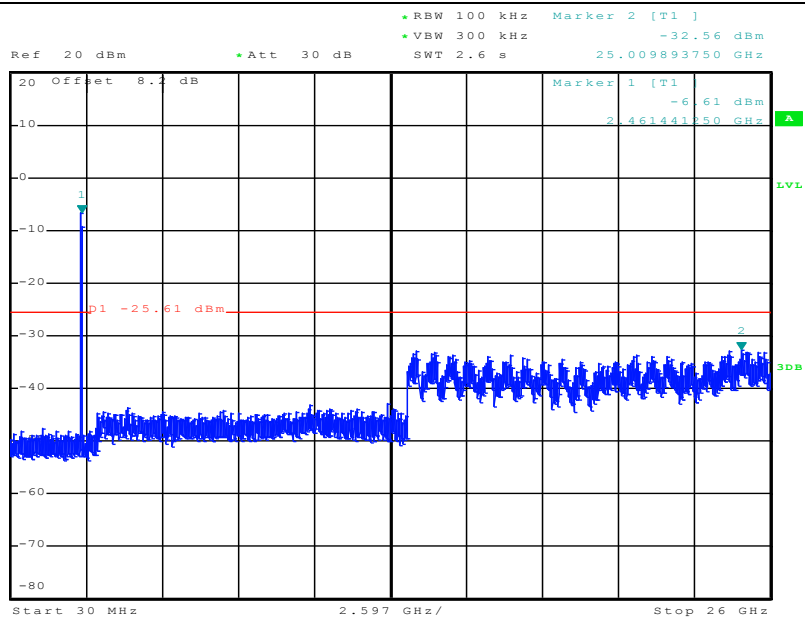
11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH



Date: 6.AUG.2019 14:36:31

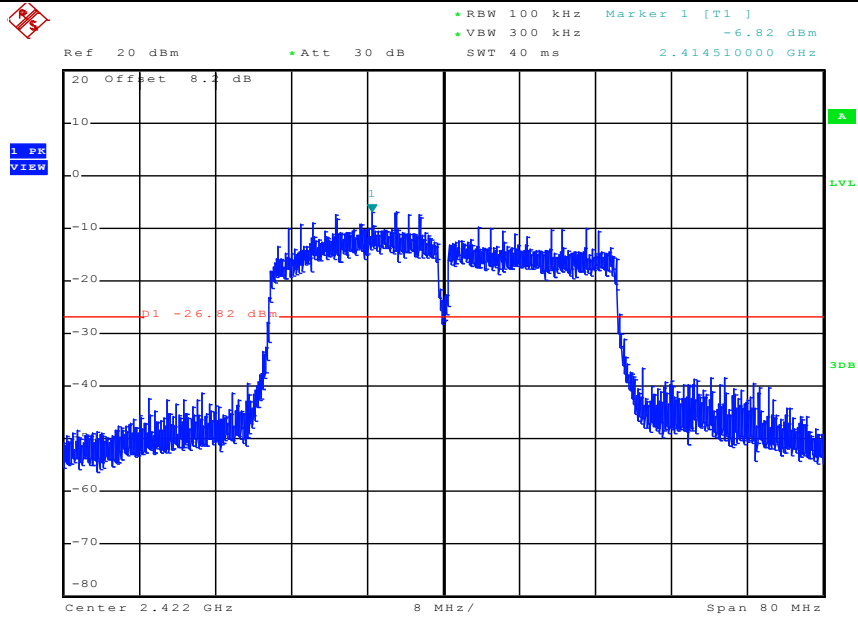
Puw/11N20
SISO/HCH



Date: 6.AUG.2019 14:36:46

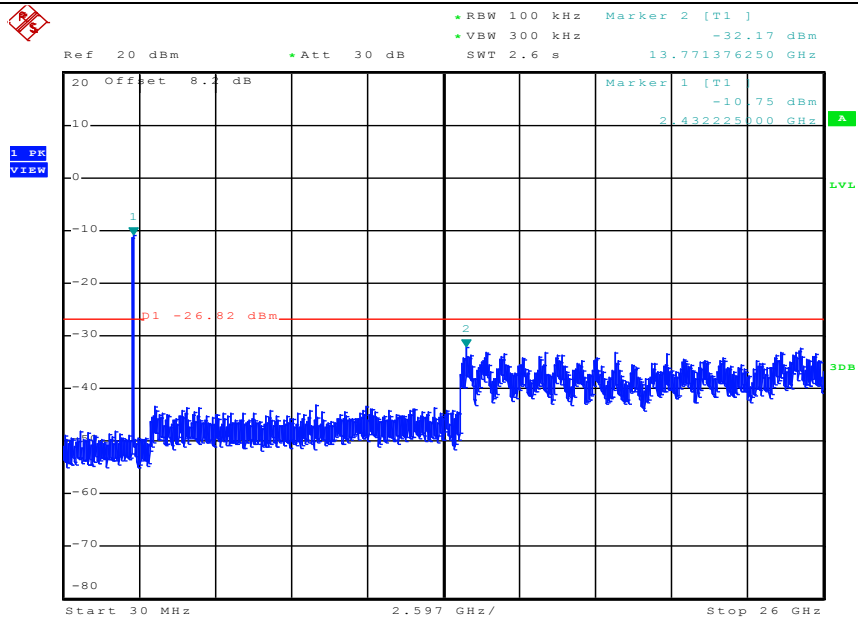
11N40SISO_LCH_Graphs

Pref/11N40
SISO/LCH



Date: 6.AUG.2019 21:22:00

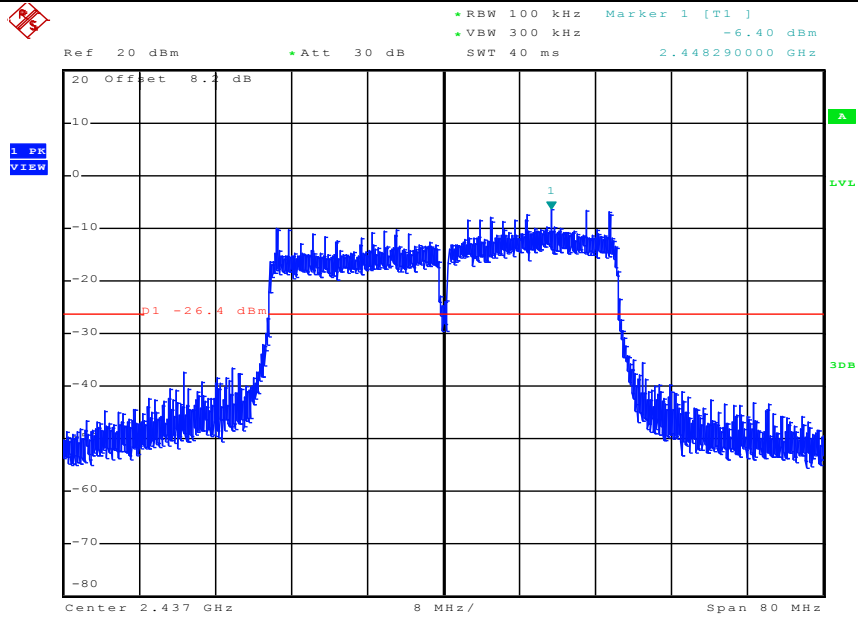
Puw/11N40
SISO/LCH



Date: 6.AUG.2019 21:22:24

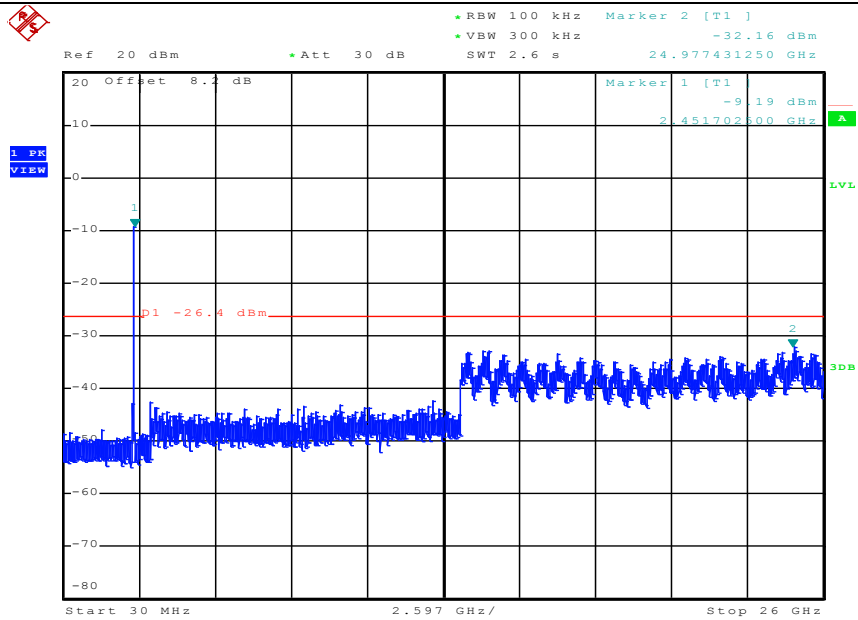
11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH



Date: 6.AUG.2019 21:16:28

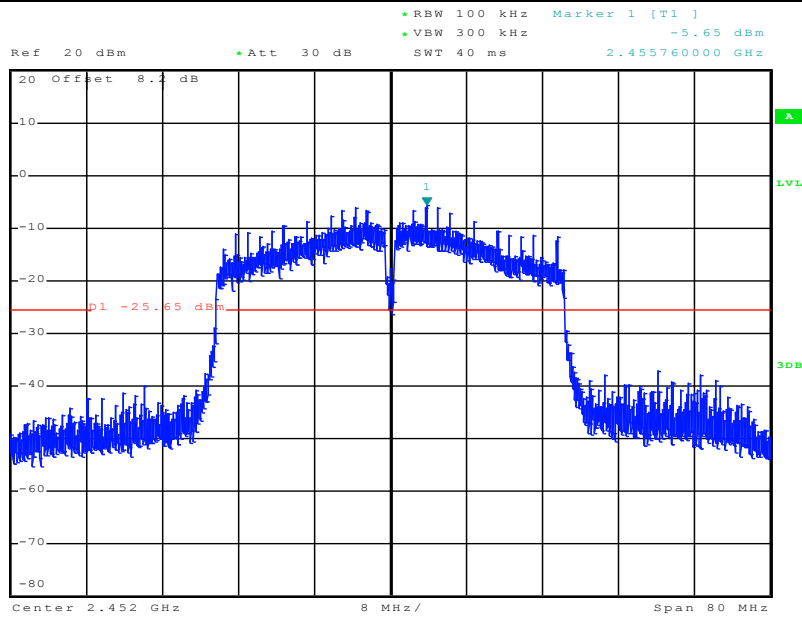
Puw/11N40
SISO/MCH



Date: 6.AUG.2019 21:17:05

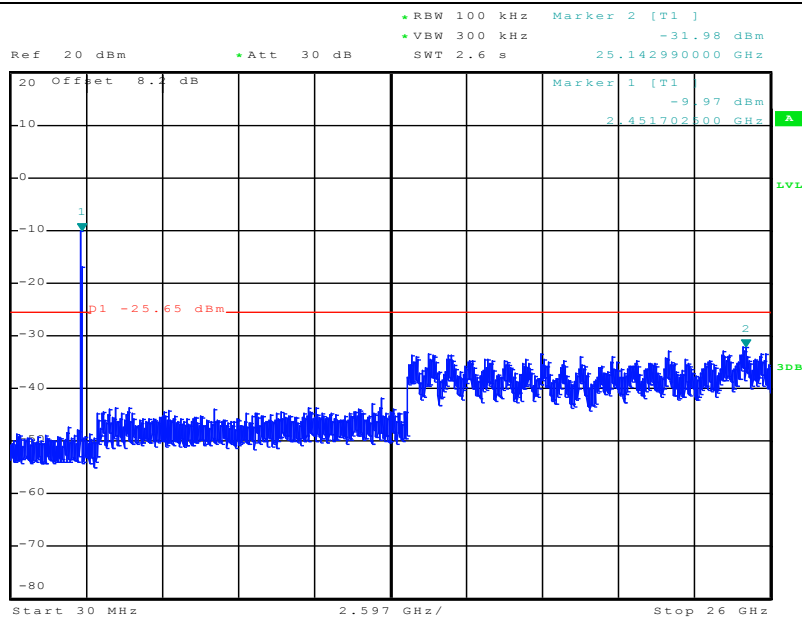
11N40SISO_HCH_Graphs

Pref/11N40
SISO/HCH



Date: 6.AUG.2019 21:19:05

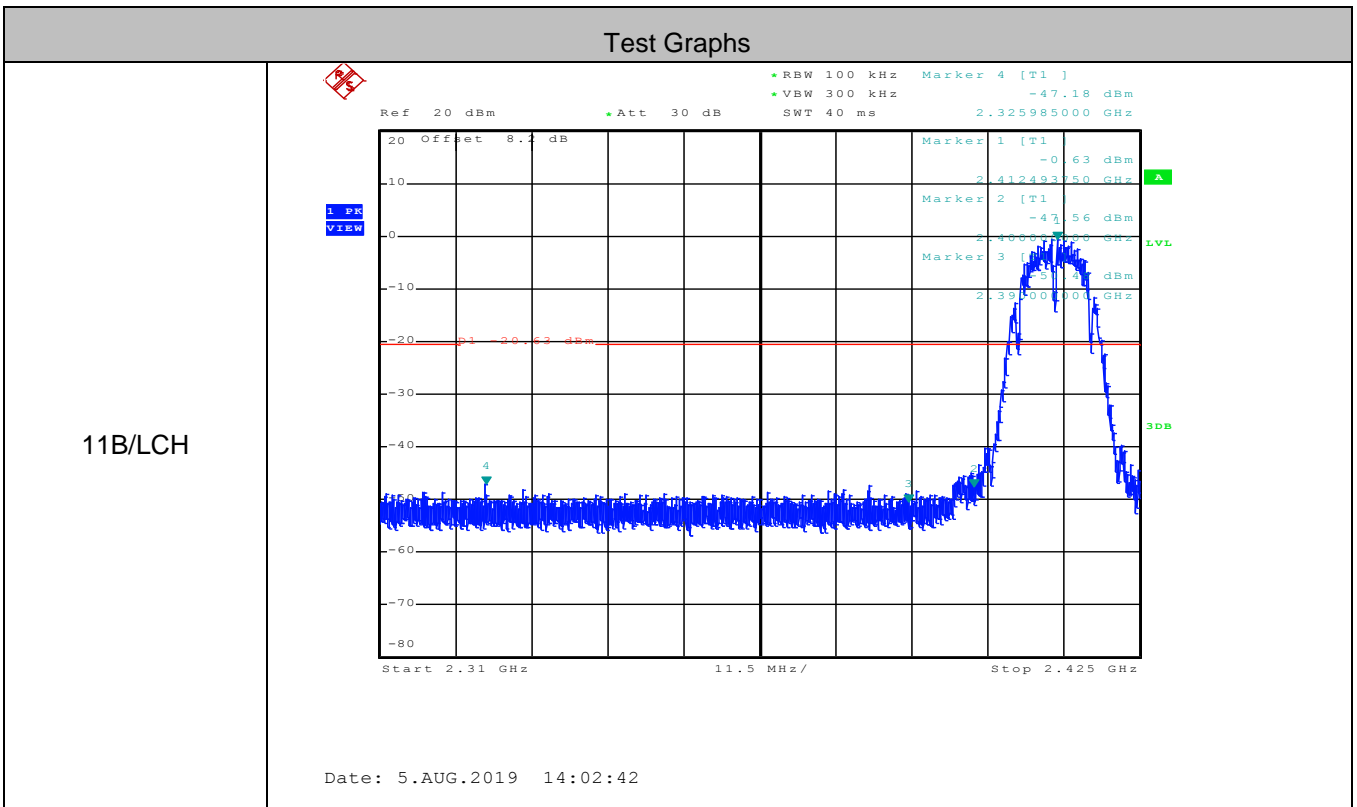
Puw/11N40
SISO/HCH



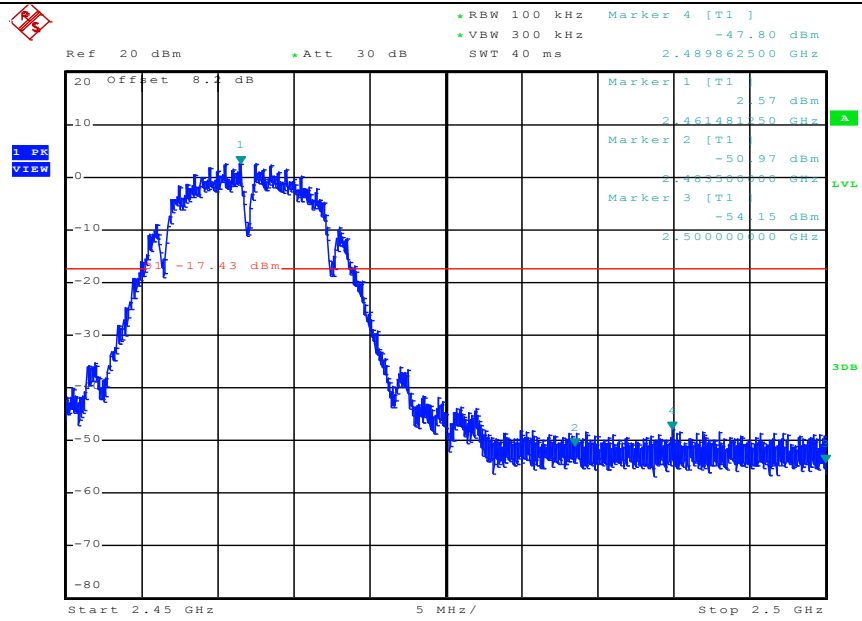
Date: 6.AUG.2019 21:19:21

C.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.630	-47.185	-20.63	PASS
	HCH	2.570	-47.801	-17.43	PASS
11G	LCH	-1.510	-47.071	-21.51	PASS
	HCH	-4.920	-47.138	-24.92	PASS
11N20SISO	LCH	-5.760	-43.544	-25.76	PASS
	HCH	-5.500	-44.825	-25.5	PASS
11N40SISO	LCH	-6.710	-46.964	-26.71	PASS
	HCH	-4.960	-39.688	-24.96	PASS

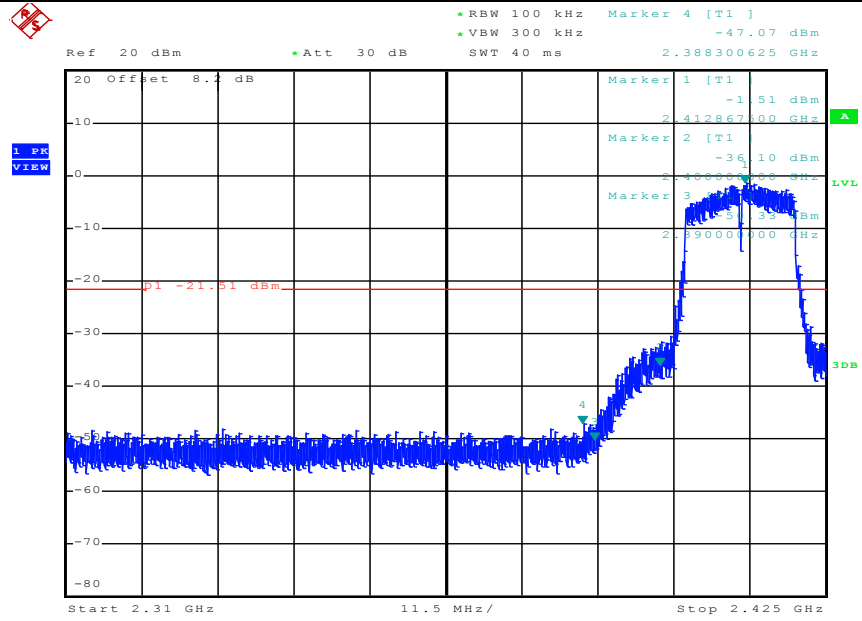


11B/HCH



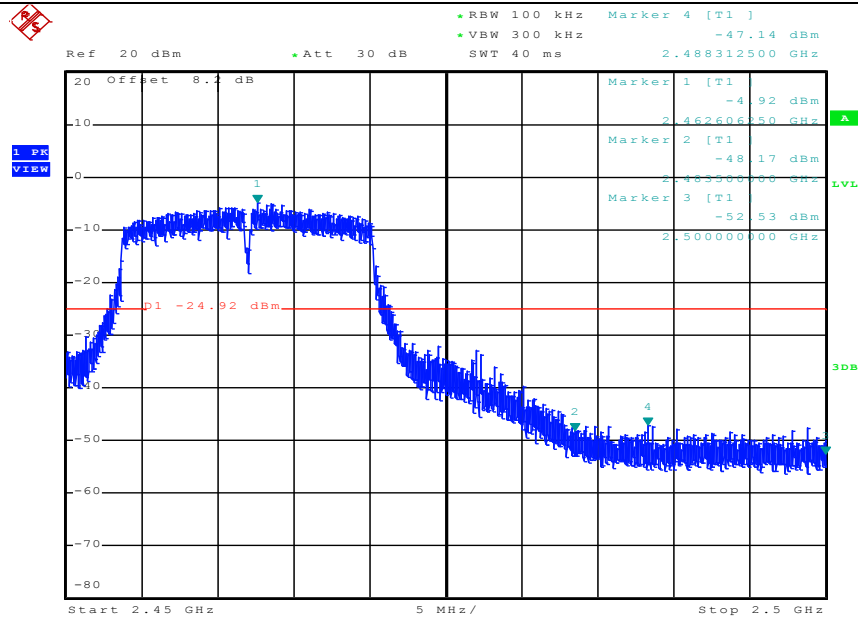
Date: 5.AUG.2019 14:10:09

11G/LCH



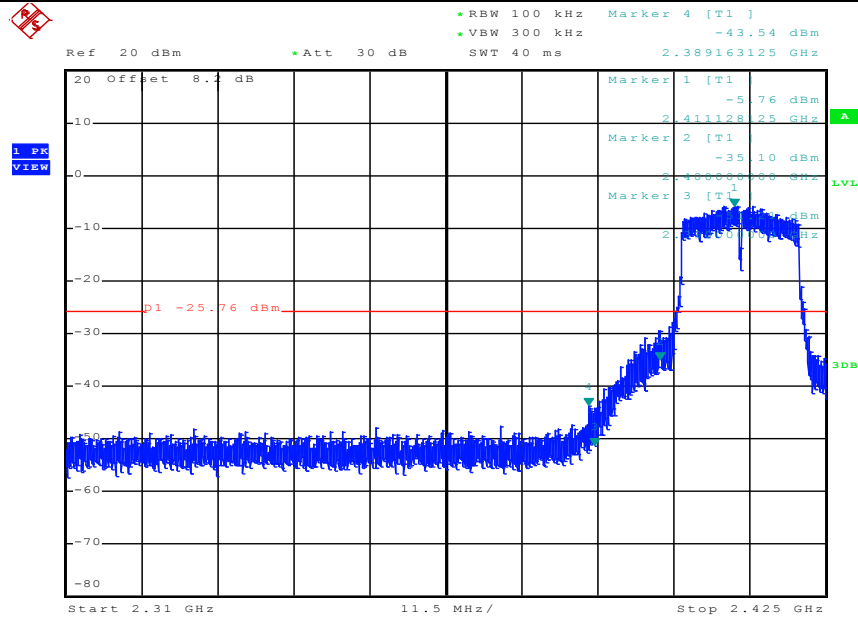
Date: 5.AUG.2019 14:13:41

11G/HCH



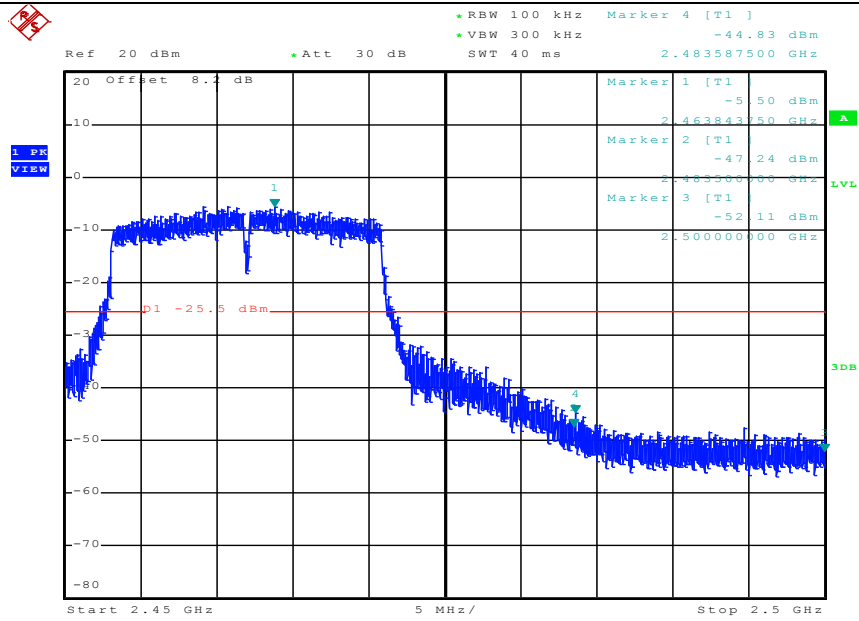
Date: 6.AUG.2019 14:26:28

11N20SISO/LCH



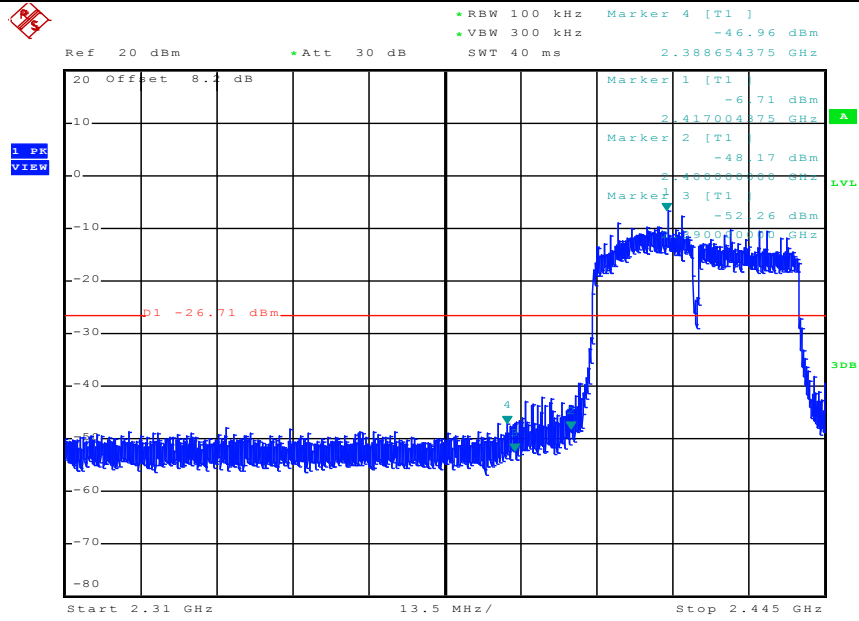
Date: 6.AUG.2019 14:29:09

11N20SISO/HCH



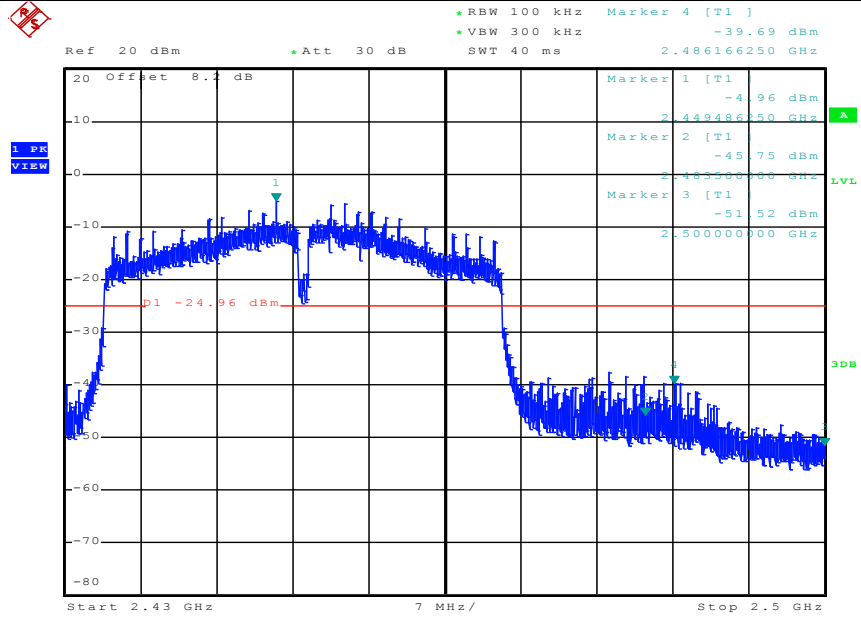
Date: 6.AUG.2019 14:36:17

11N40SISO/LCH



Date: 6.AUG.2019 21:21:47

11N40SISO/HCH



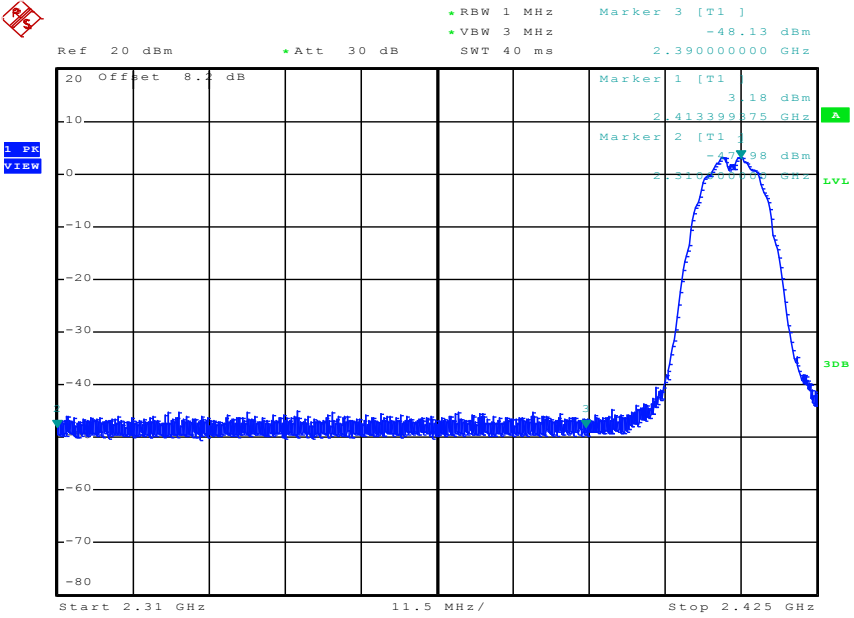
Date: 6.AUG.2019 21:18:52

C.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-47.98	2.0	0	49.28	PEAK	74	PASS
	2412	Ant1	2310.0	-58.12	2.0	0	39.14	AV	54	PASS
	2412	Ant1	2390.0	-48.13	2.0	0	49.13	PEAK	74	PASS
	2412	Ant1	2390.0	-57.72	2.0	0	39.54	AV	54	PASS
	2462	Ant1	2483.5	-47.03	2.0	0	50.23	PEAK	74	PASS
	2462	Ant1	2483.5	-57.27	2.0	0	39.99	AV	54	PASS
	2462	Ant1	2500.0	-48.41	2.0	0	48.85	PEAK	74	PASS
	2462	Ant1	2500.0	-58.18	2.0	0	39.08	AV	54	PASS
11G	2412	Ant1	2310.0	-48.65	2.0	0	48.61	PEAK	74	PASS
	2412	Ant1	2310.0	-58.09	2.0	0	39.17	AV	54	PASS
	2412	Ant1	2390.0	-47.85	2.0	0	49.41	PEAK	74	PASS
	2412	Ant1	2390.0	-57.35	2.0	0	39.91	AV	54	PASS
	2462	Ant1	2483.5	-41.71	2.0	0	55.55	PEAK	74	PASS
	2462	Ant1	2483.5	-53.31	2.0	0	43.95	AV	54	PASS
	2462	Ant1	2500.0	-47.54	2.0	0	49.72	PEAK	74	PASS
	2462	Ant1	2500.0	-57.60	2.0	0	39.66	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-46.61	2.0	0	50.65	PEAK	74	PASS
	2412	Ant1	2310.0	-58.13	2.0	0	39.13	AV	54	PASS
	2412	Ant1	2390.0	-46.80	2.0	0	50.46	PEAK	74	PASS
	2412	Ant1	2390.0	-57.25	2.0	0	40.01	AV	54	PASS
	2462	Ant1	2483.5	-37.81	2.0	0	59.45	PEAK	74	PASS
	2462	Ant1	2483.5	-50.59	2.0	0	46.67	AV	54	PASS
	2462	Ant1	2500.0	-48.33	2.0	0	48.93	PEAK	74	PASS
	2462	Ant1	2500.0	-58.23	2.0	0	39.03	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-49.32	2.0	0	47.94	PEAK	74	PASS
	2422	Ant1	2310.0	-58.11	2.0	0	39.15	AV	54	PASS

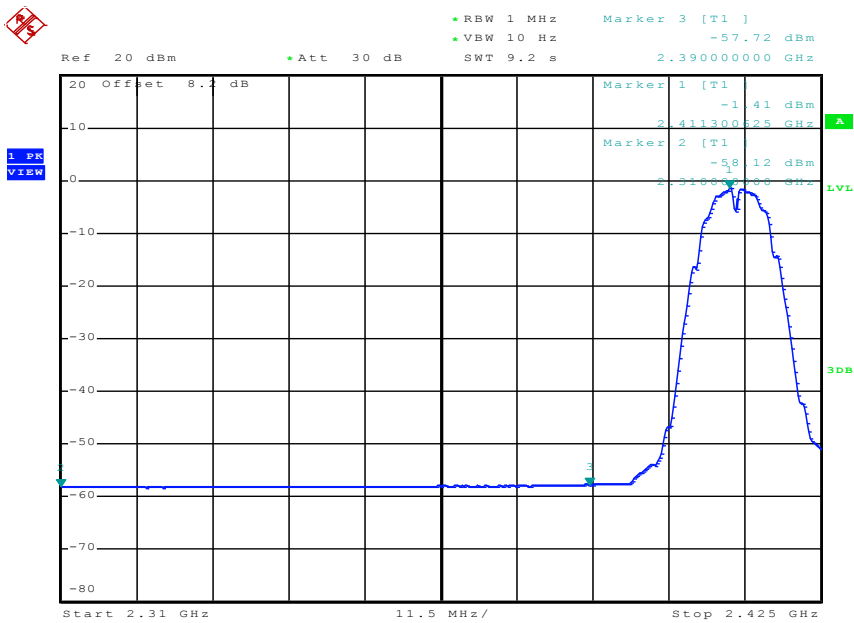
	2422	Ant1	2390.0	-39.16	2.0	0	58.10	PEAK	74	PASS
	2422	Ant1	2390.0	-52.56	2.0	0	44.70	AV	54	PASS
	2452	Ant1	2483.5	-31.12	2.0	0	66.14	PEAK	74	PASS
	2452	Ant1	2483.5	-49.12	2.0	0	48.14	AV	54	PASS
	2452	Ant1	2500.0	-48.85	2.0	0	48.41	PEAK	74	PASS
	2452	Ant1	2500.0	-57.44	2.0	0	39.82	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



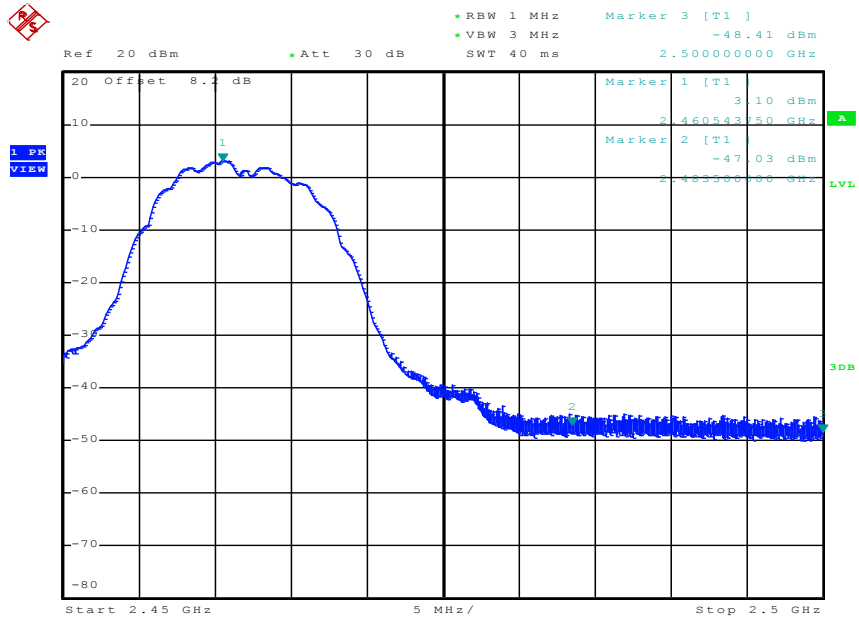
Date: 6.AUG.2019 21:35:12

Restrict-band band-edge measurements_11B_2412_Ant1_AV



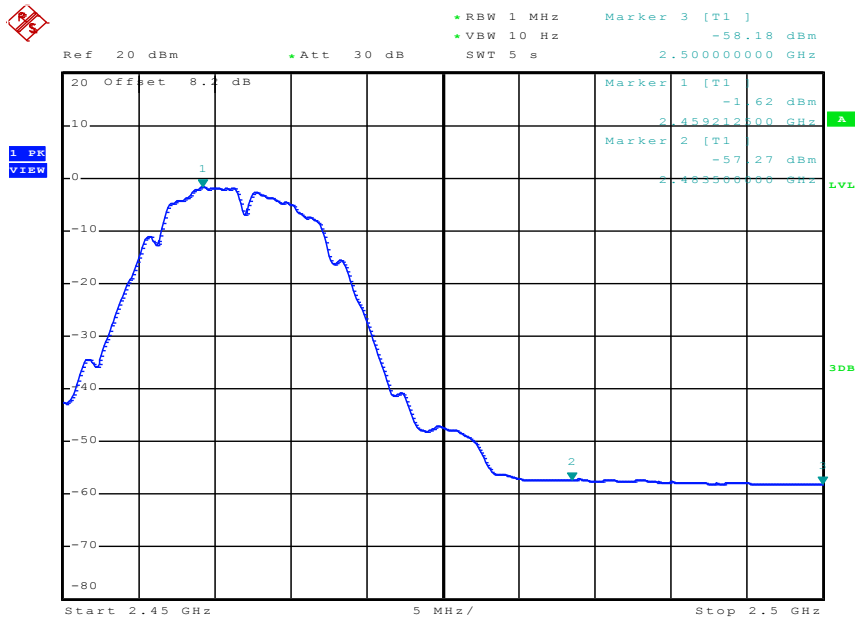
Date: 6.AUG.2019 21:35:33

Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



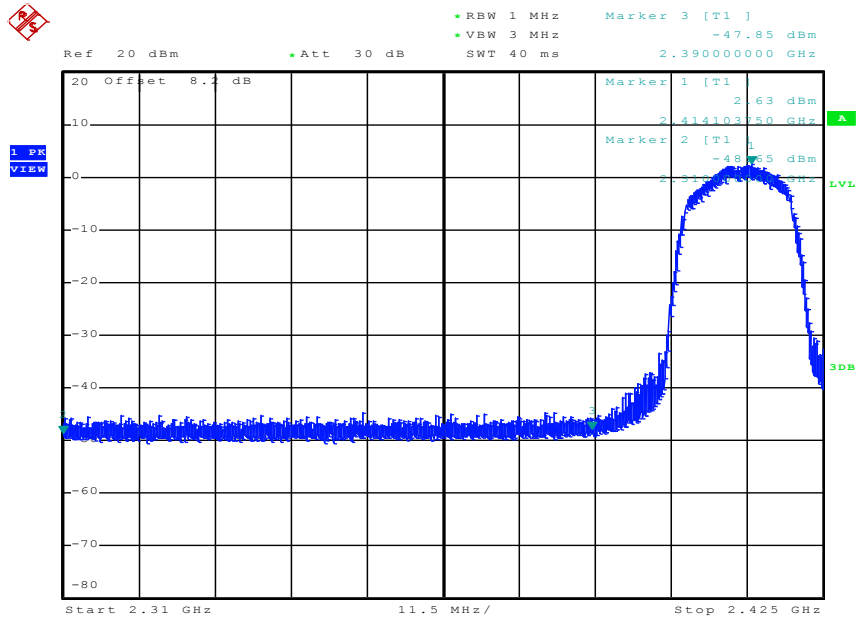
Date: 6.AUG.2019 21:37:23

Restrict-band band-edge measurements_11B_2462_Ant1_AV



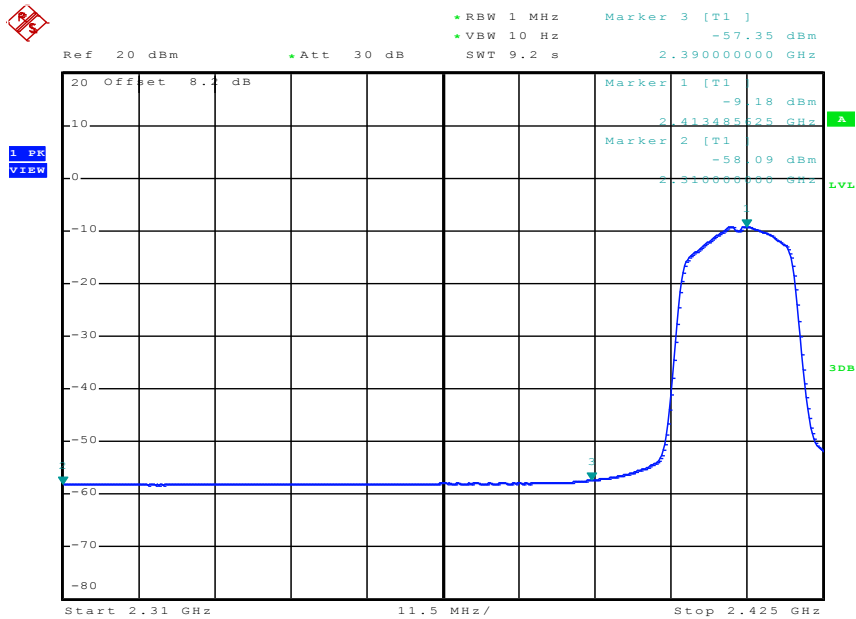
Date: 6.AUG.2019 21:37:38

Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



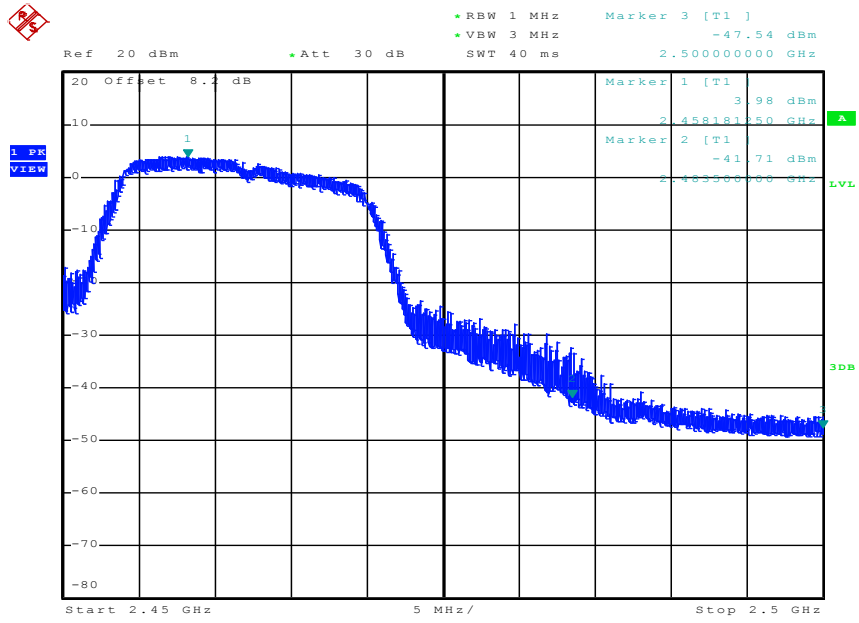
Date: 6.AUG.2019 21:38:41

Restrict-band band-edge measurements_11G_2412_Ant1_AV



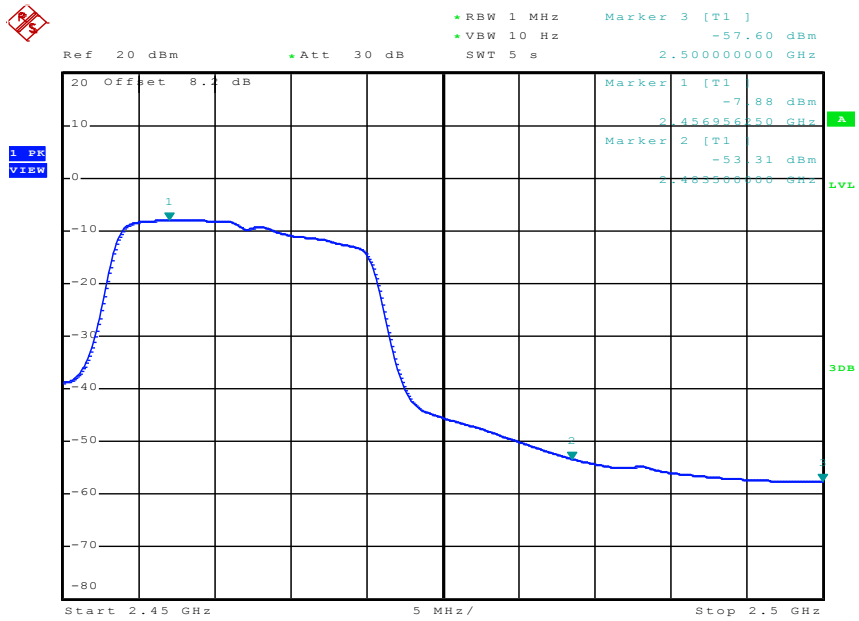
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Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



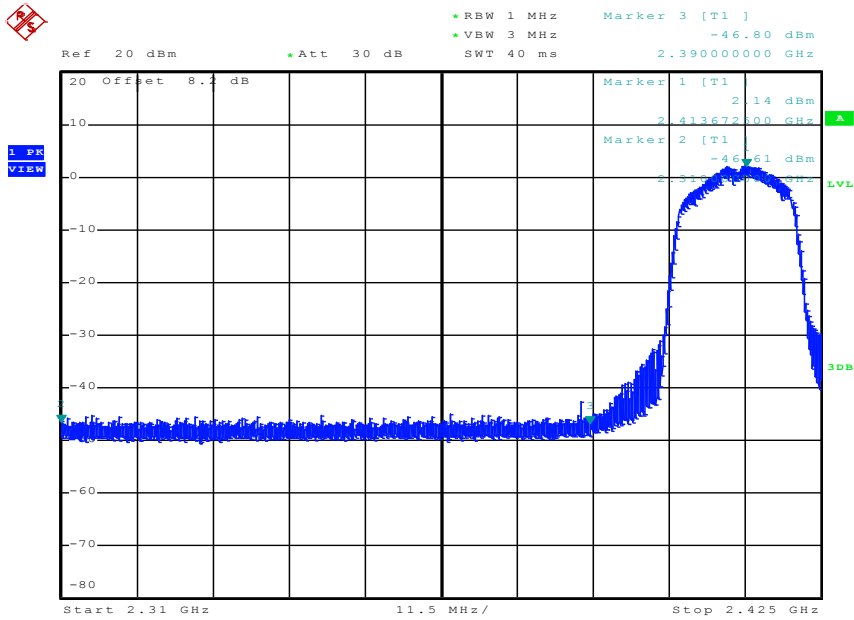
Date: 6.AUG.2019 21:41:18

Restrict-band band-edge measurements_11G_2462_Ant1_AV



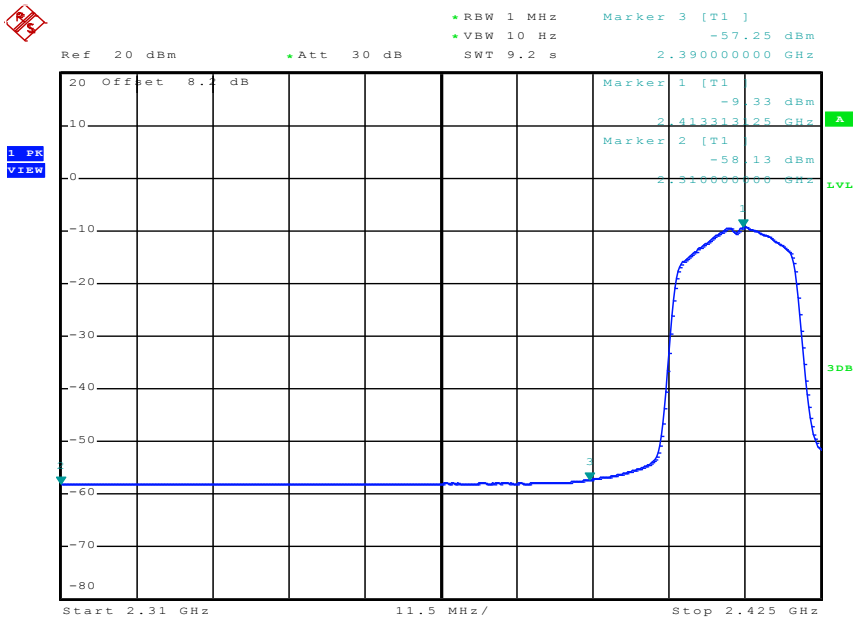
Date: 6.AUG.2019 21:41:33

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



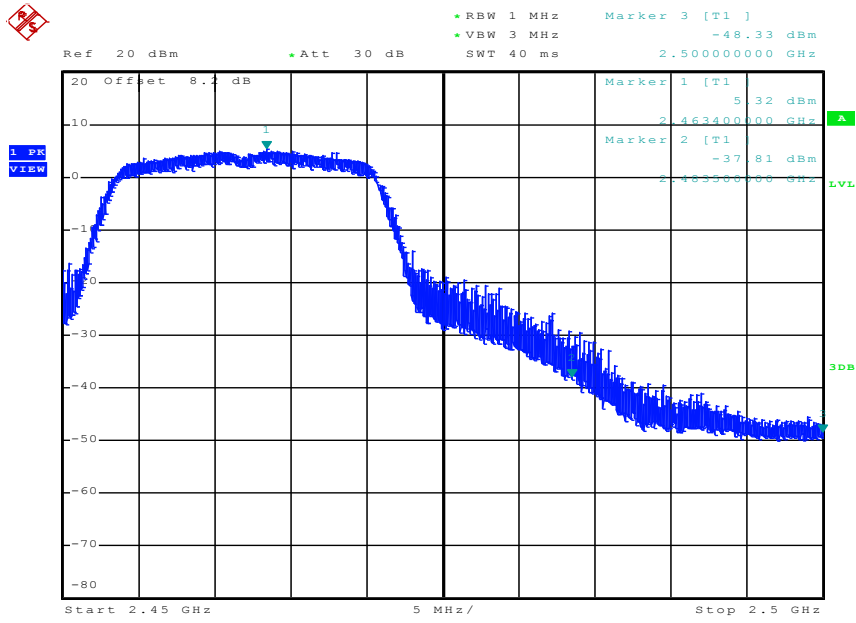
Date: 6.AUG.2019 21:42:48

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



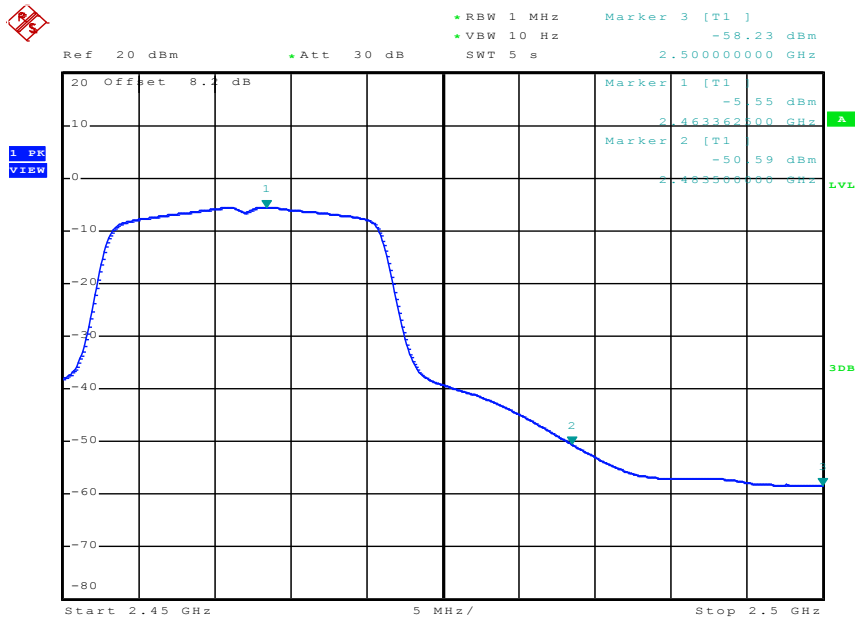
Date: 6.AUG.2019 21:43:18

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



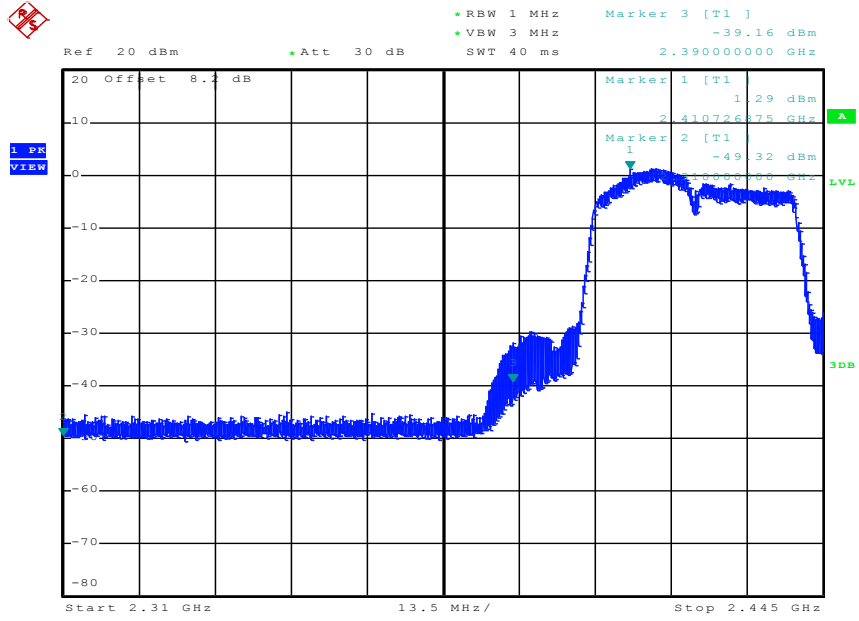
Date: 6.AUG.2019 14:37:05

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



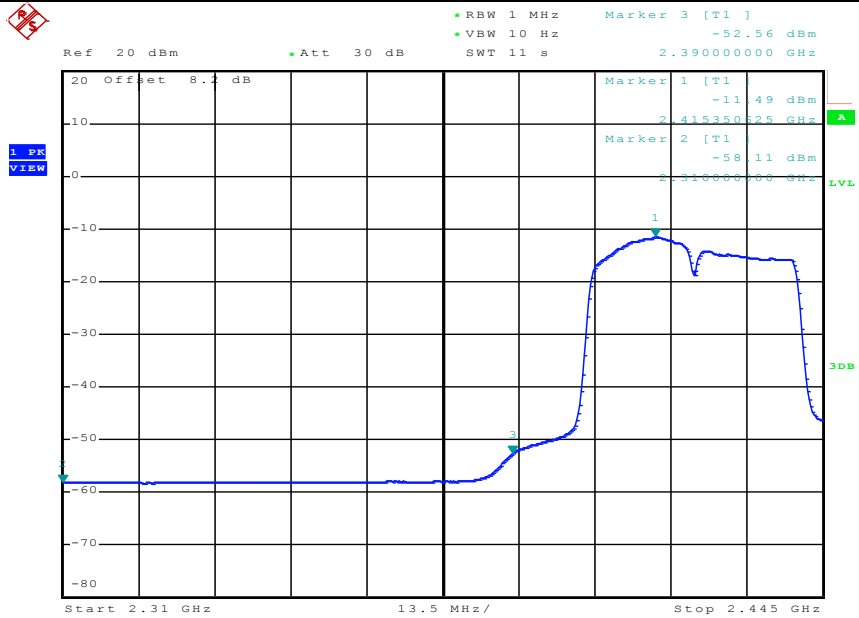
Date: 6.AUG.2019 14:37:21

Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



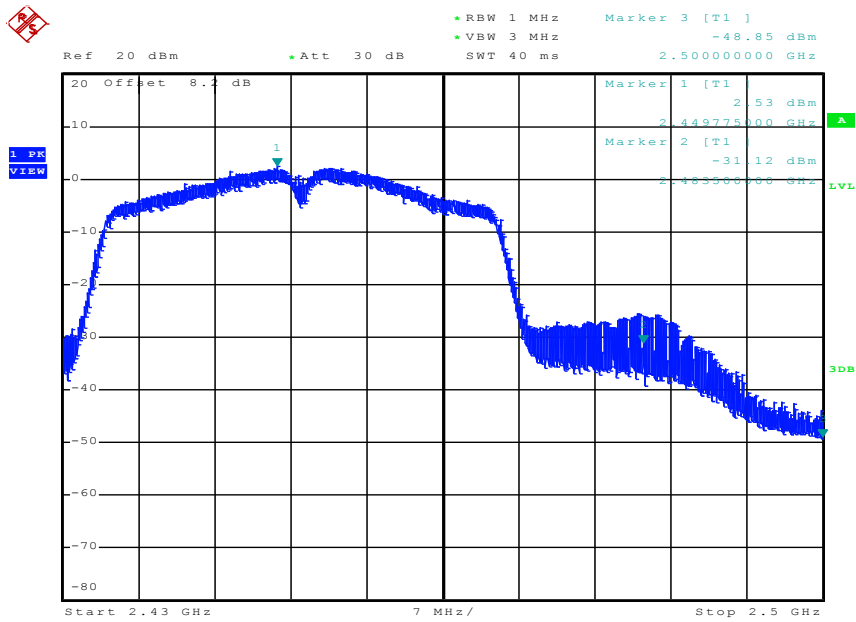
Date: 6.AUG.2019 21:22:43

Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



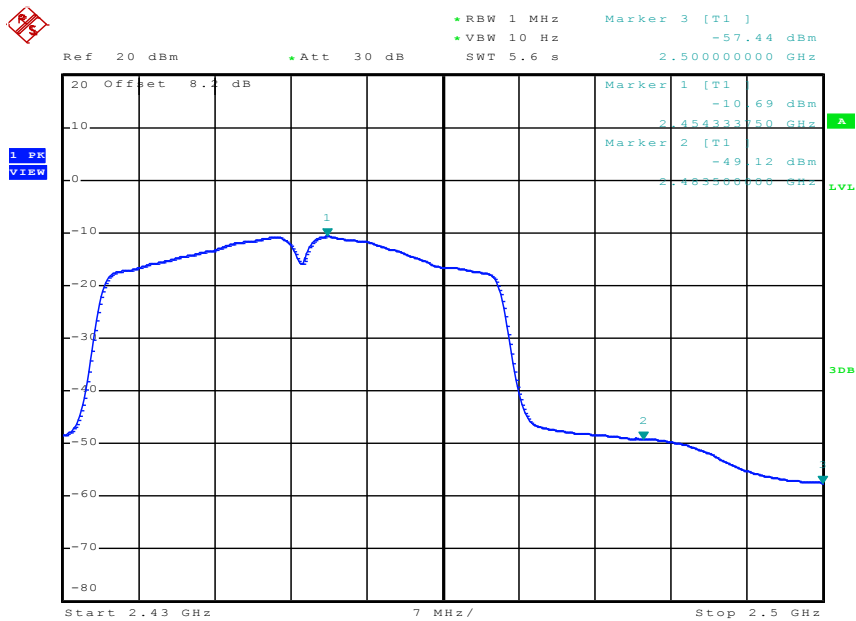
Date: 6.AUG.2019 21:23:31

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Date: 6.AUG.2019 21:19:40

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



Date: 6.AUG.2019 21:19:55