

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: IP Camera

Trade Mark: N/A

Test Model: LF-B1

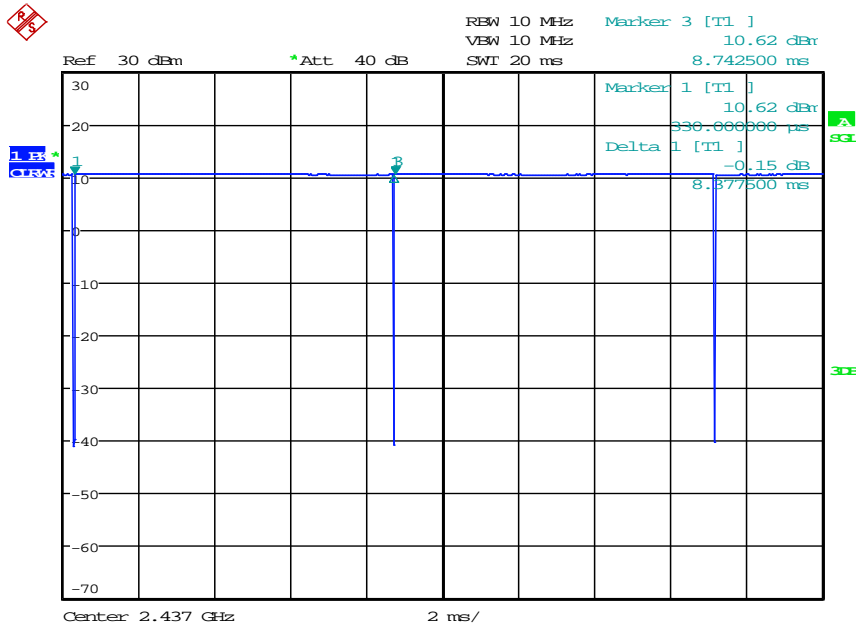
Environmental Conditions

Temperature:	25.1 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang.Chuang

C.1 Duty Cycle

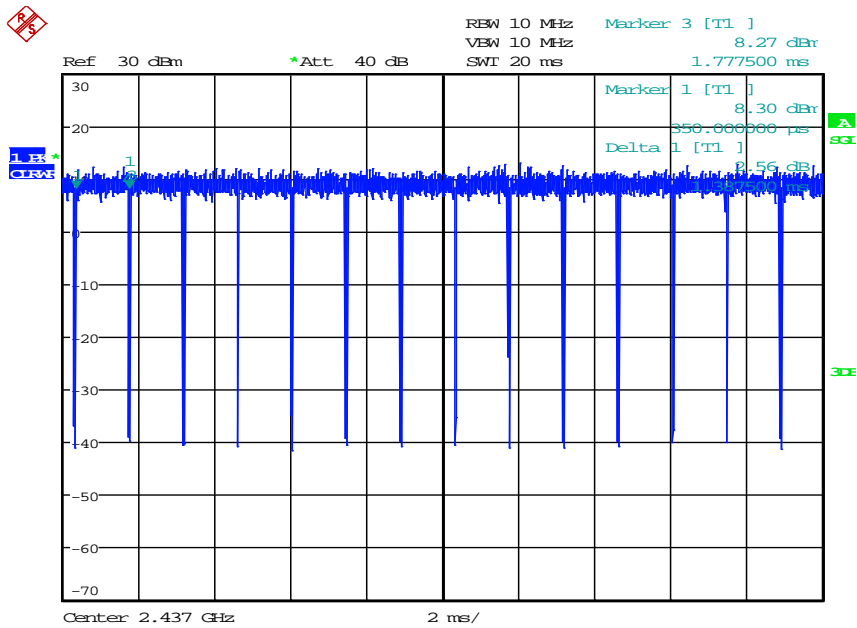
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	99.58	PASS
11G	2437	Ant1	97.2	PASS
11N20SISO	2437	Ant1	96.82	PASS

Duty Cycle_11B_2437_Ant1



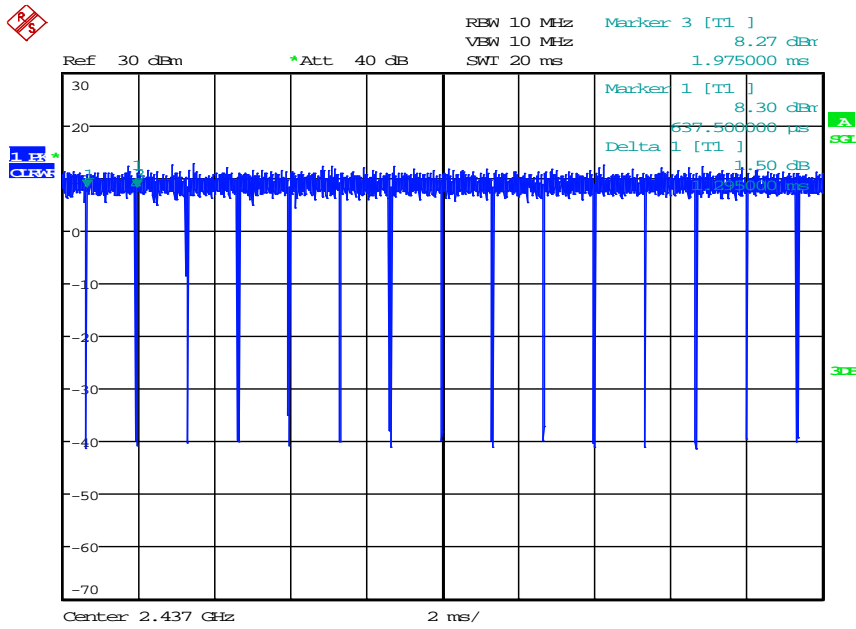
Date: 9.AUG.2019 12:37:53

Duty Cycle_11G_2437_Ant1



Date: 9.AUG.2019 12:38:20

Duty Cycle_11N20SISO_2437_Ant1



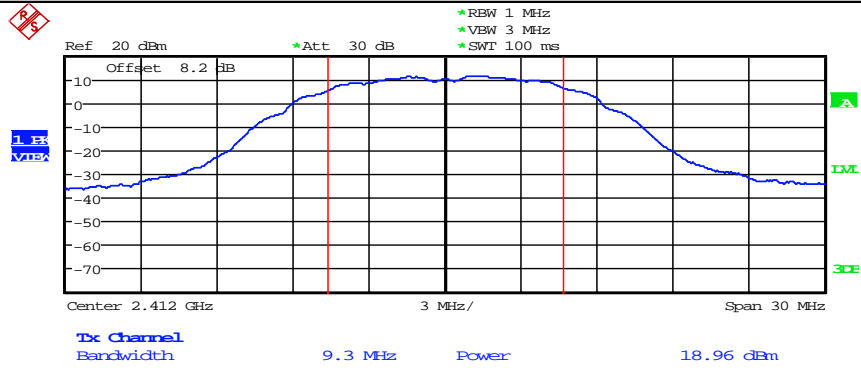
Date: 9.AUG.2019 12:39:00

C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	18.96	30	PASS
	MCH	19.06	30	PASS
	HCH	18.68	30	PASS
11G	LCH	22.62	30	PASS
	MCH	22.78	30	PASS
	HCH	22.08	30	PASS
11N20SISO	LCH	22.66	30	PASS
	MCH	22.89	30	PASS
	HCH	22.26	30	PASS

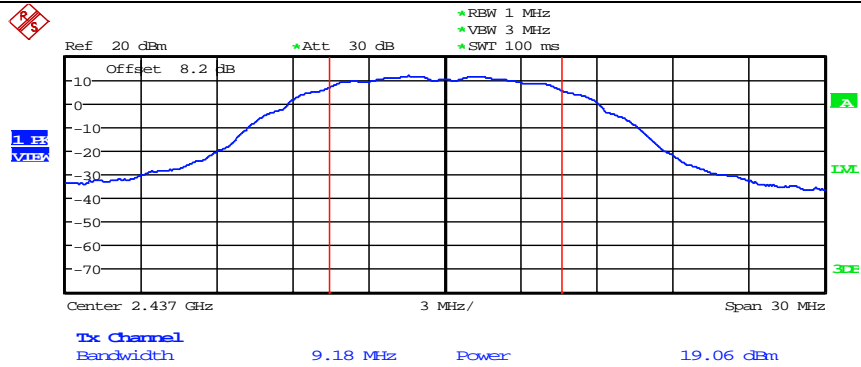
Test Graphs

11B/LCH



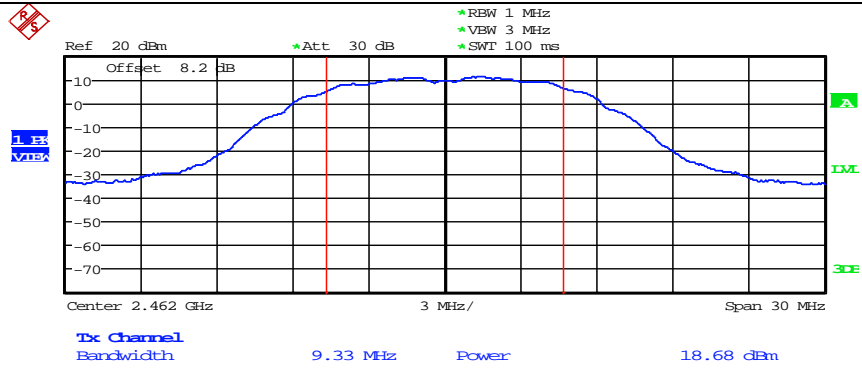
Date: 9.AUG.2019 12:14:05

11B/MCH



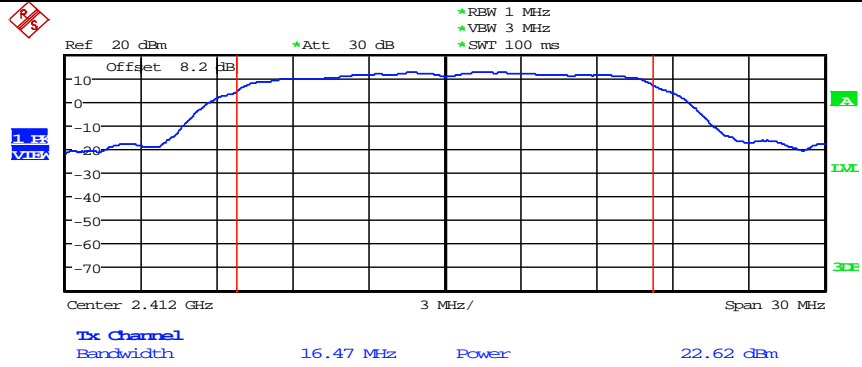
Date: 9.AUG.2019 12:16:57

11B/HCH



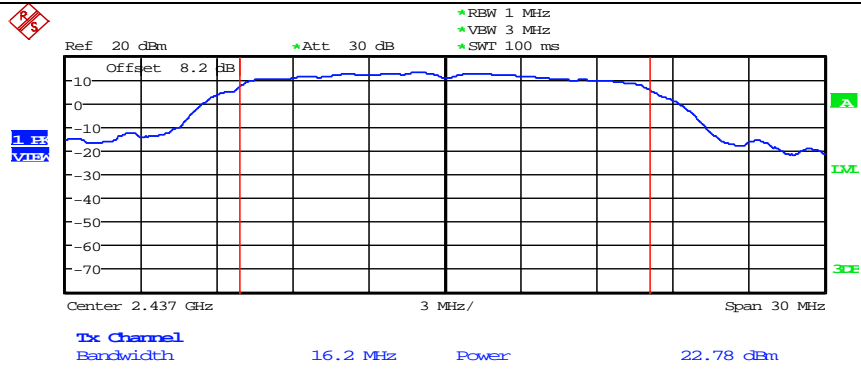
Date: 9.AUG.2019 12:19:09

11G/LCH



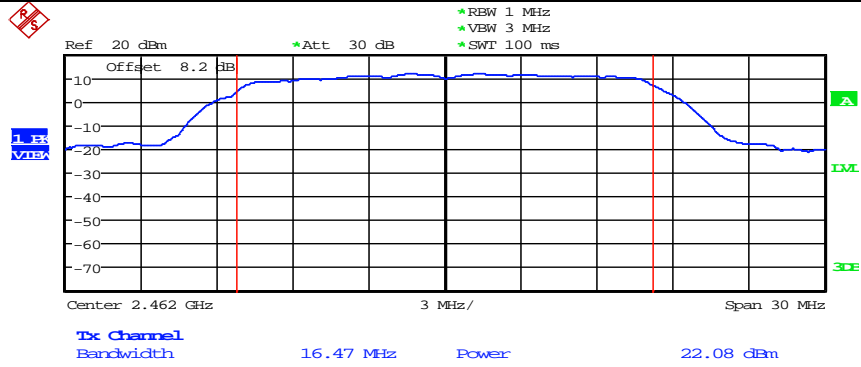
Date: 9.AUG.2019 12:21:49

11G/MCH



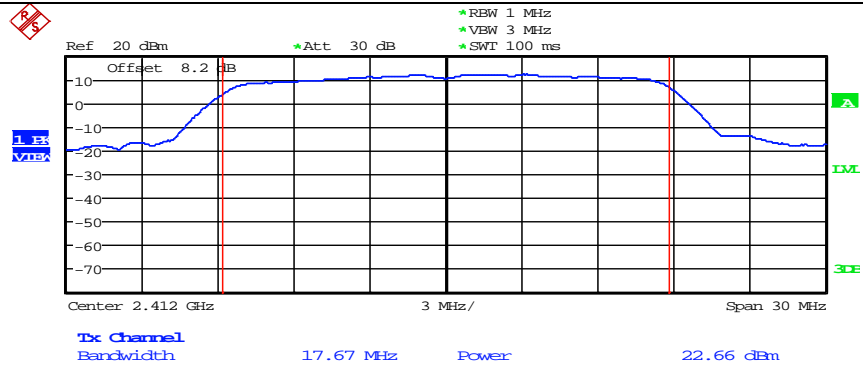
Date: 9.AUG.2019 12:24:41

11G/HCH



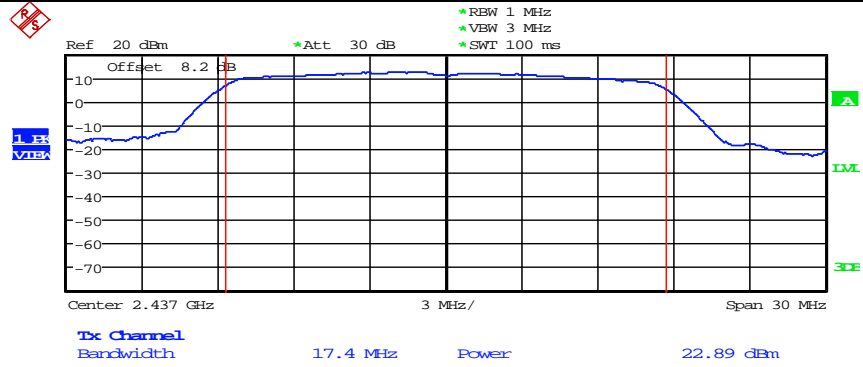
Date: 9.AUG.2019 12:26:35

11N20SISO/LCH



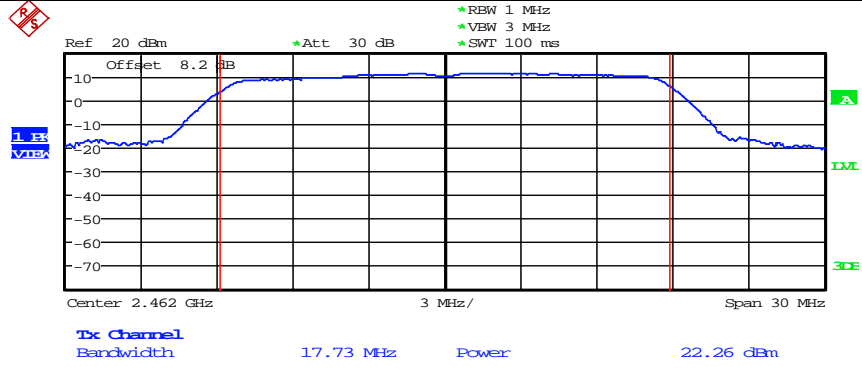
Date: 9.AUG.2019 12:30:06

11N20SISO/MCH



Date: 9.AUG.2019 12:32:42

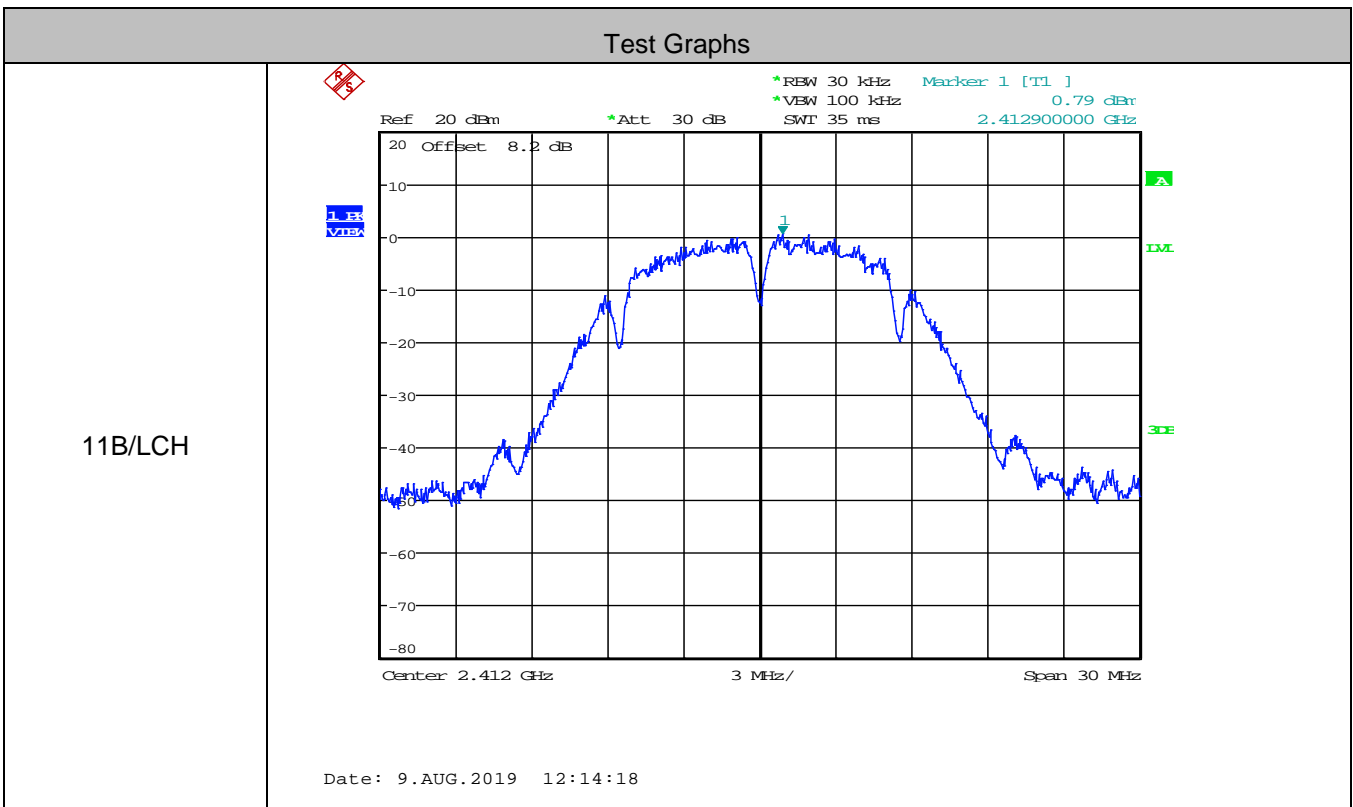
11N20SISO/HCH



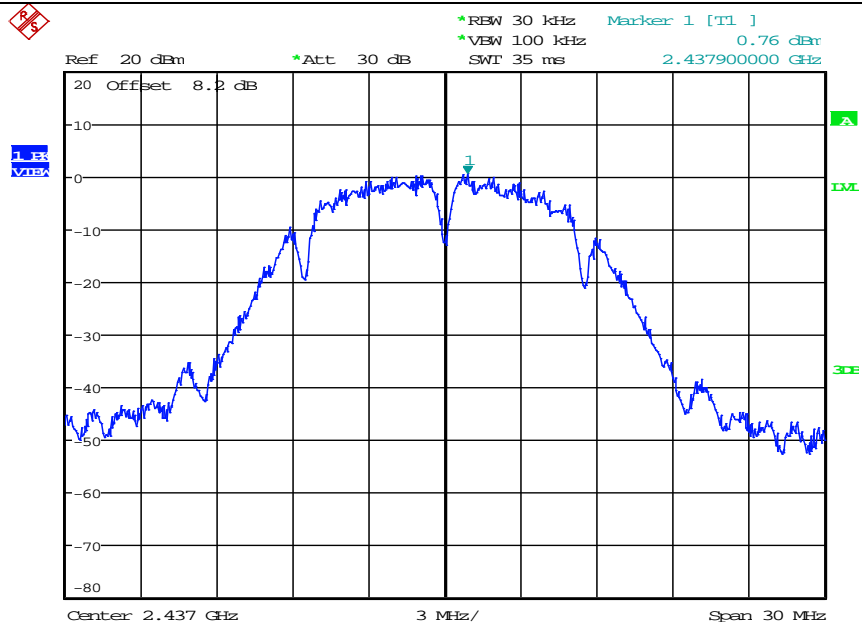
Date: 9.AUG.2019 12:34:39

C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	0.790	8	PASS
	MCH	0.760	8	PASS
	HCH	0.670	8	PASS
11G	LCH	-1.000	8	PASS
	MCH	-0.390	8	PASS
	HCH	-1.420	8	PASS
11N20SISO	LCH	-0.090	8	PASS
	MCH	0.220	8	PASS
	HCH	-0.750	8	PASS

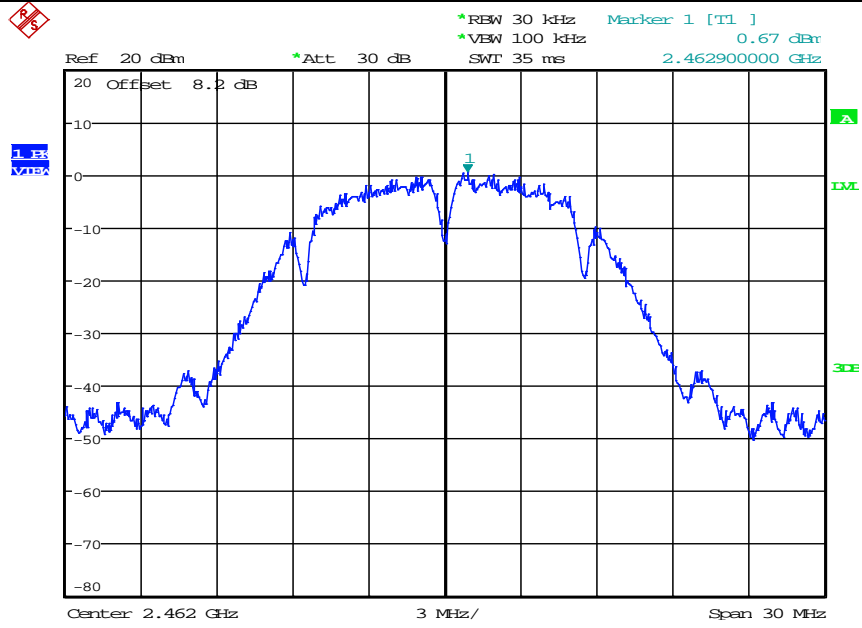


11B/MCH



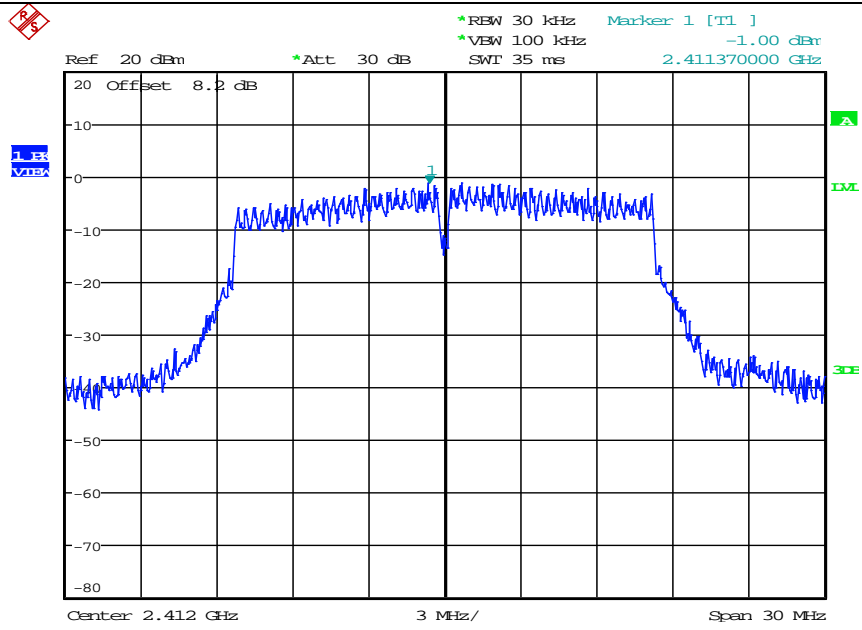
Date: 9.AUG.2019 12:17:10

11B/HCH



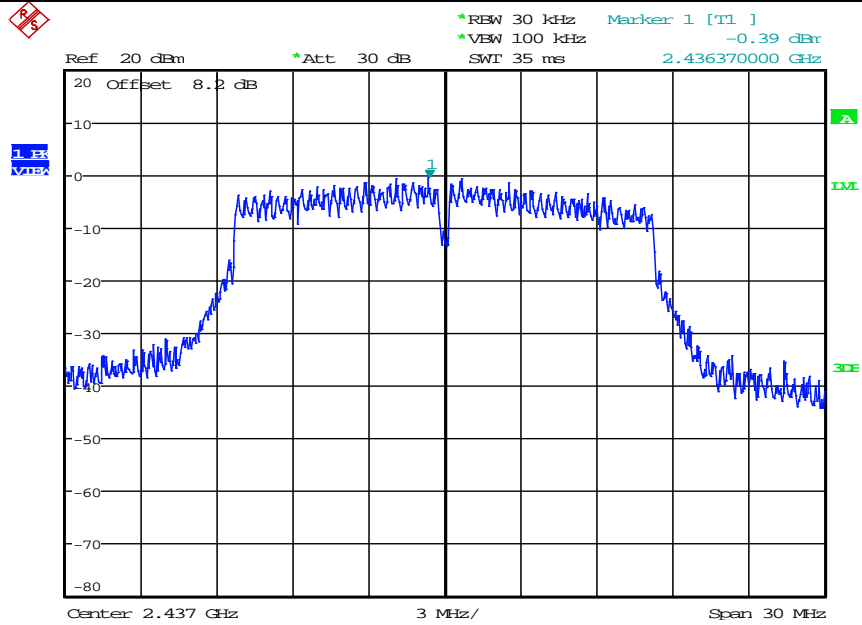
Date: 9.AUG.2019 12:19:21

11G/LCH



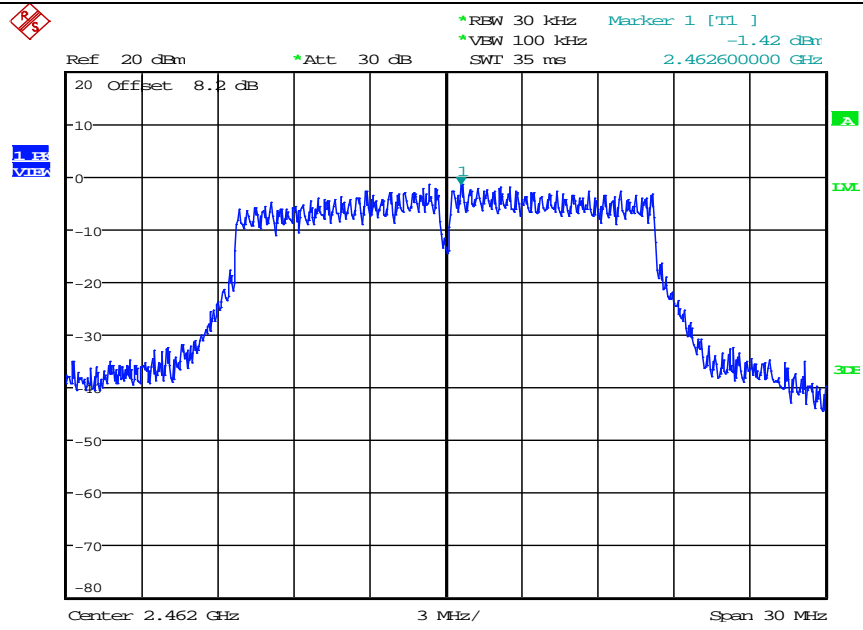
Date: 9.AUG.2019 12:22:02

11G/MCH



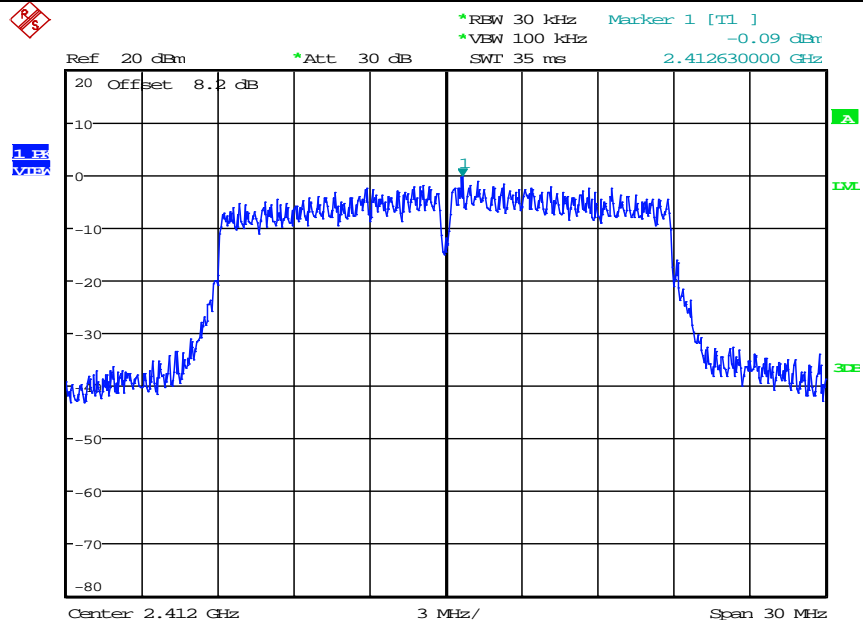
Date: 9.AUG.2019 12:24:54

11G/HCH



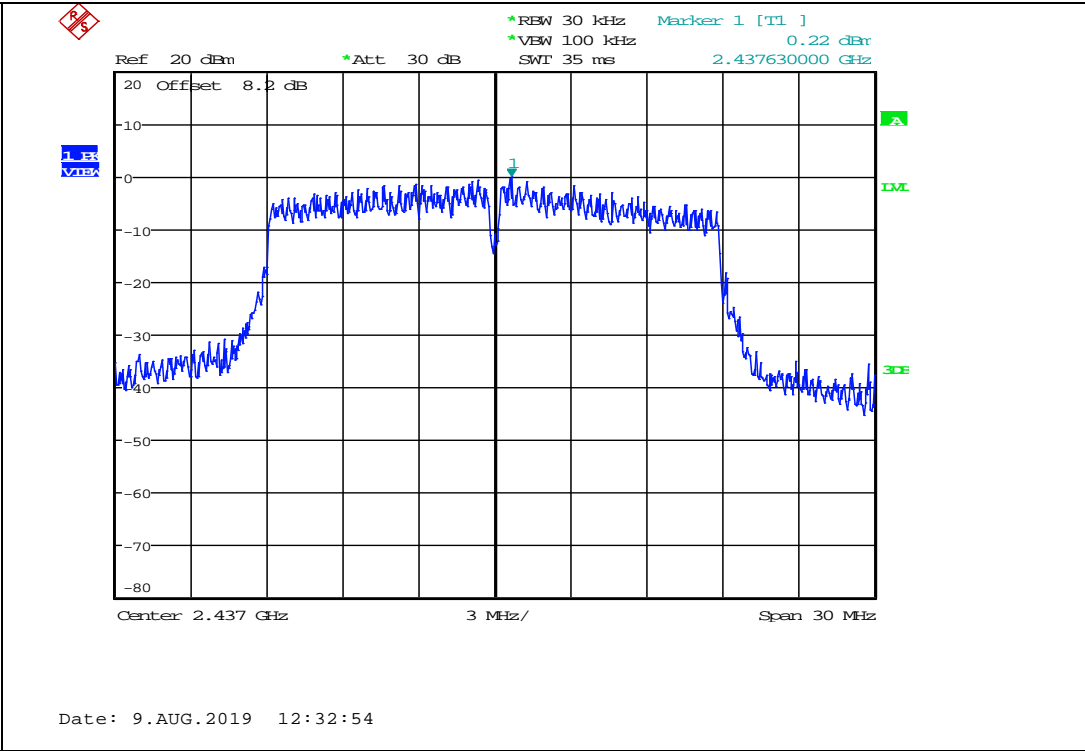
Date: 9.AUG.2019 12:26:47

11N20SISO/LCH

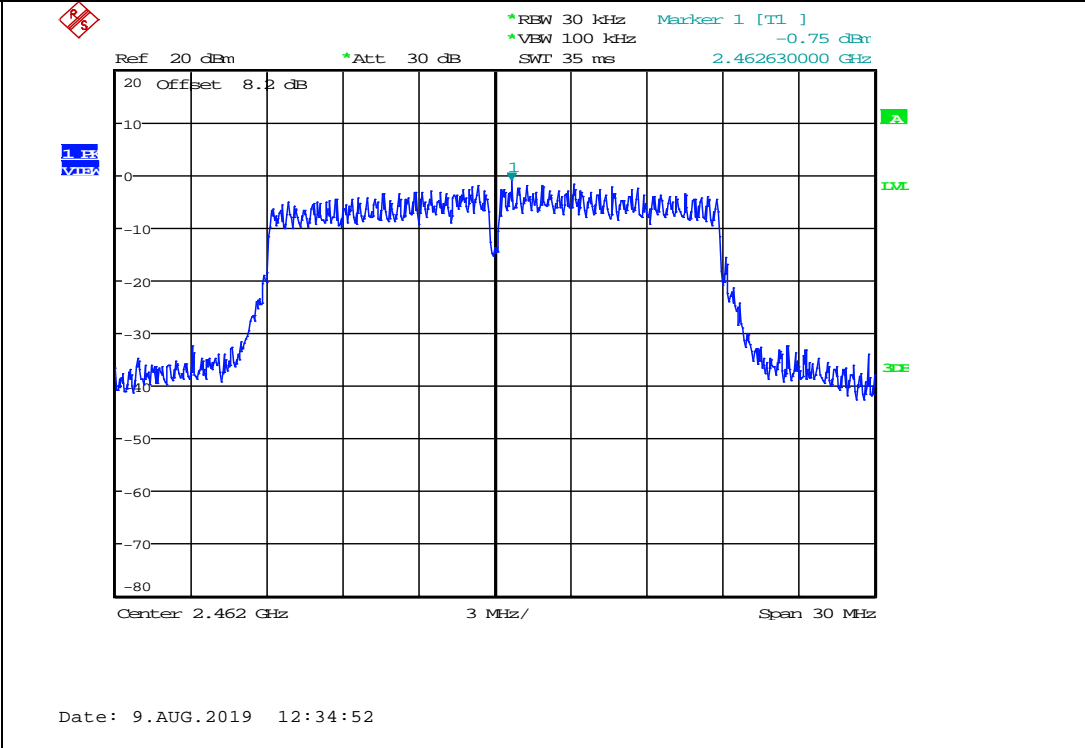


Date: 9.AUG.2019 12:30:19

11N20SISO/MCH

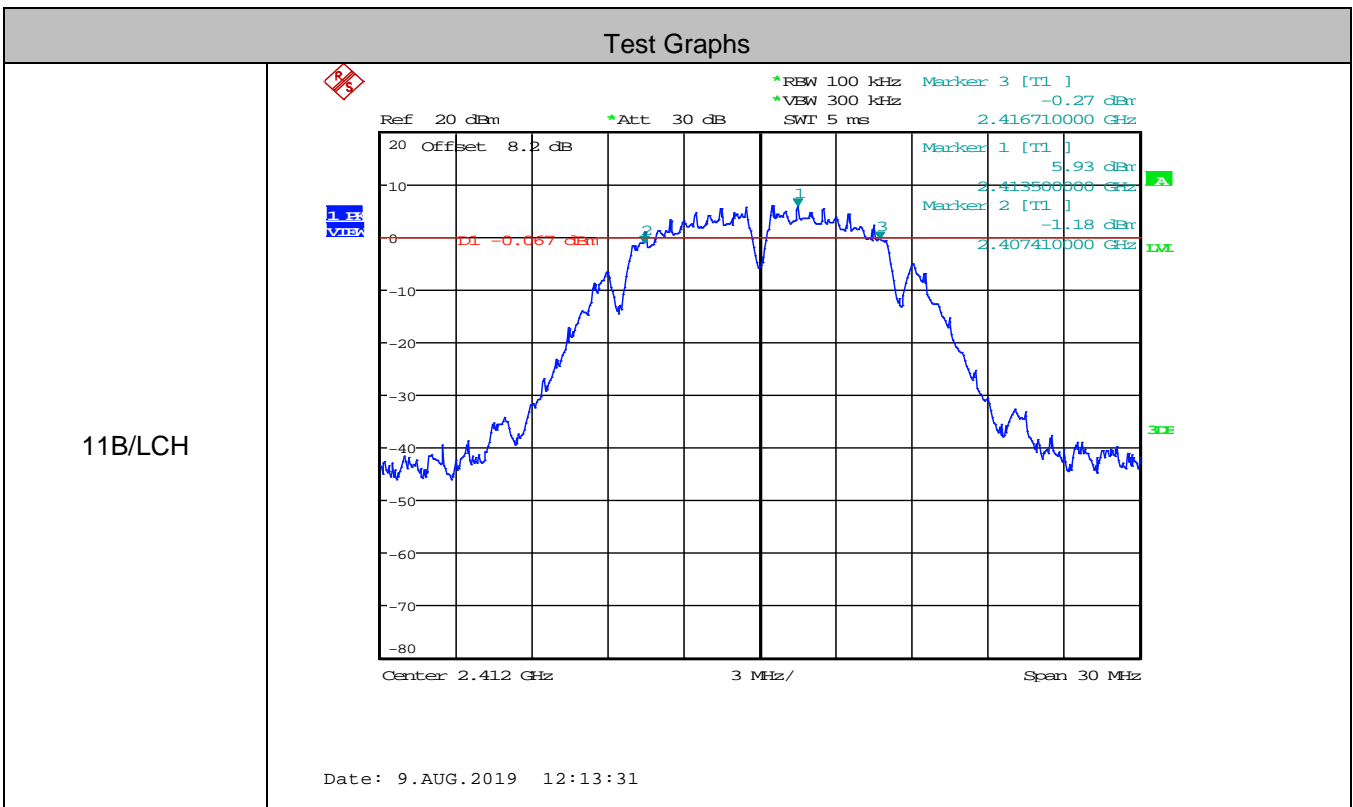


11N20SISO/HCH

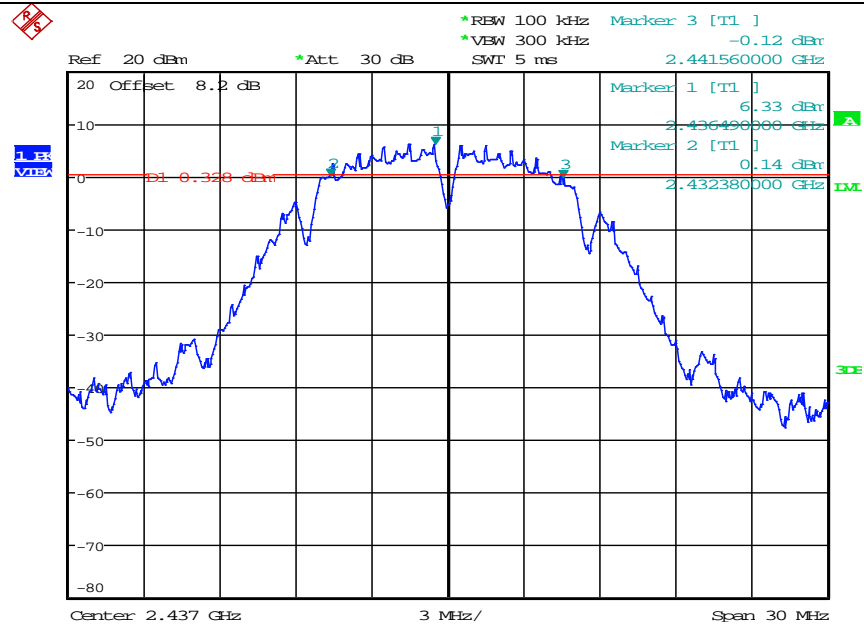


C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.300	≥0.5	PASS
	MCH	9.180	≥0.5	PASS
	HCH	9.330	≥0.5	PASS
11G	LCH	16.470	≥0.5	PASS
	MCH	16.200	≥0.5	PASS
	HCH	16.470	≥0.5	PASS
11N20SISO	LCH	17.670	≥0.5	PASS
	MCH	17.400	≥0.5	PASS
	HCH	17.730	≥0.5	PASS

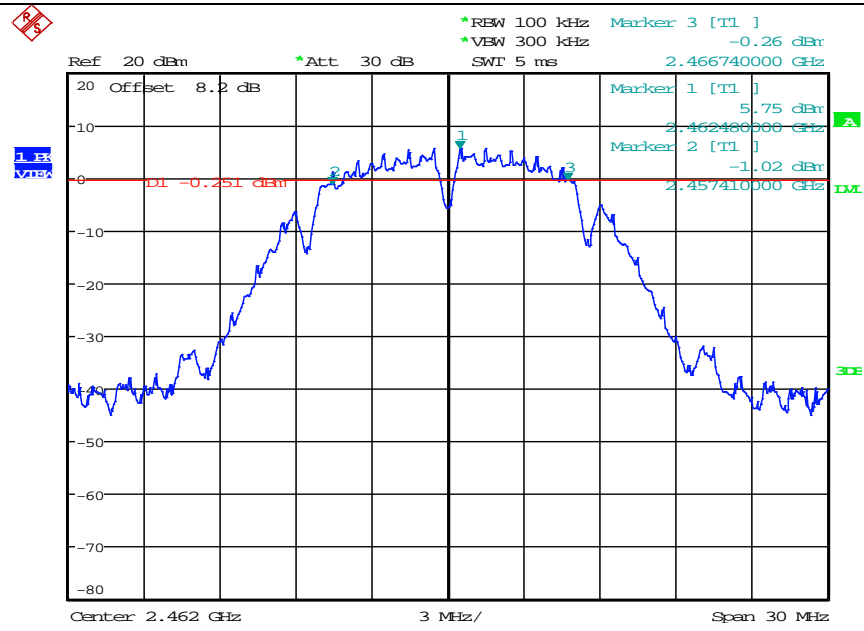


11B/MCH



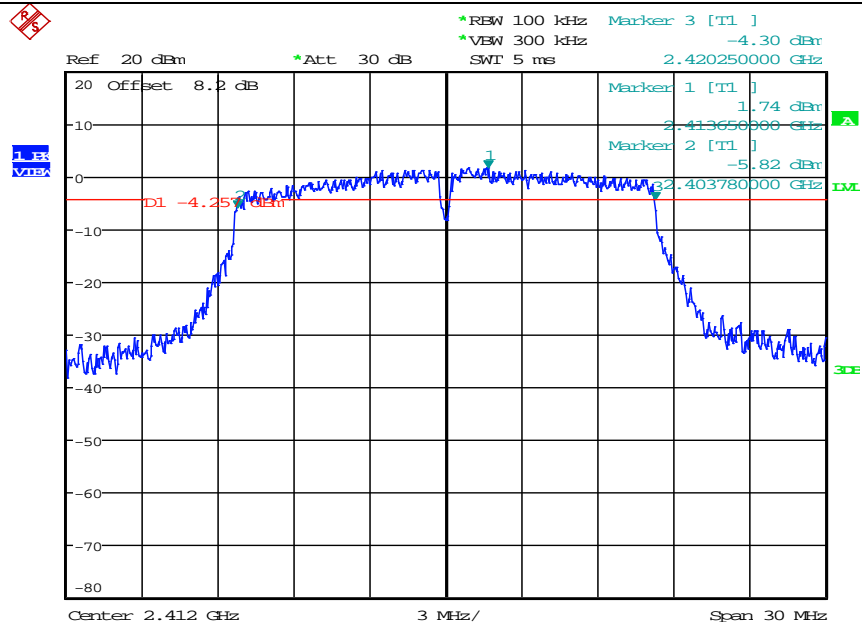
Date: 9.AUG.2019 12:16:23

11B/HCH



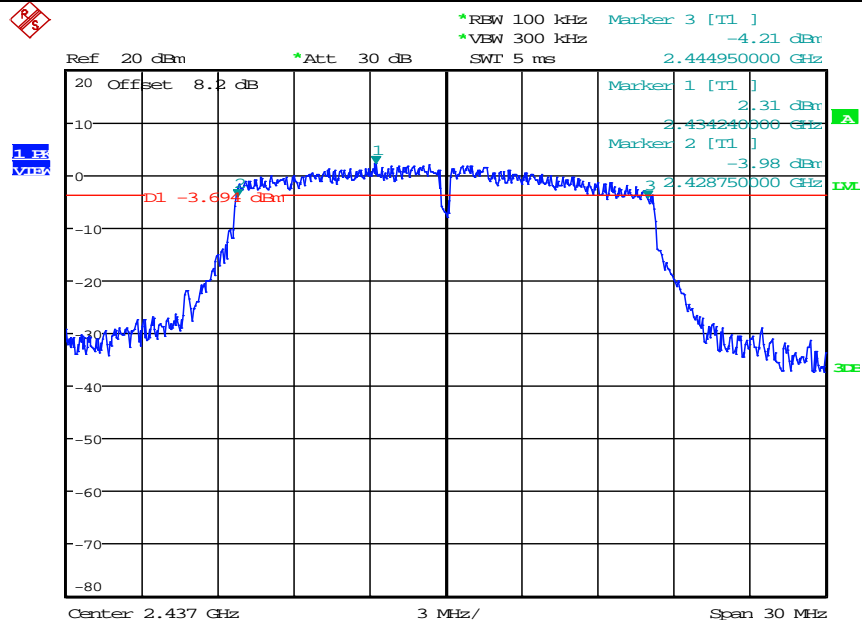
Date: 9.AUG.2019 12:18:34

11G/LCH



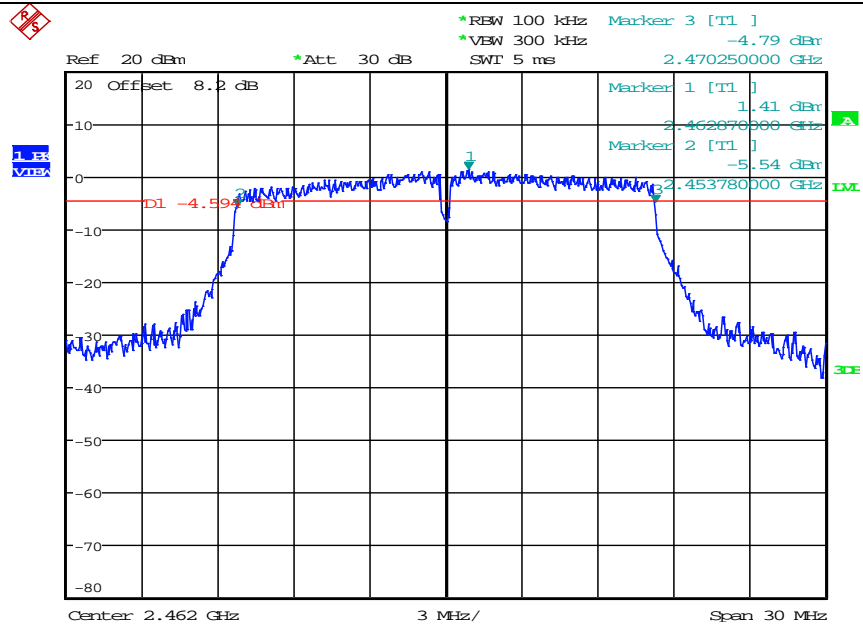
Date: 9.AUG.2019 12:21:15

11G/MCH



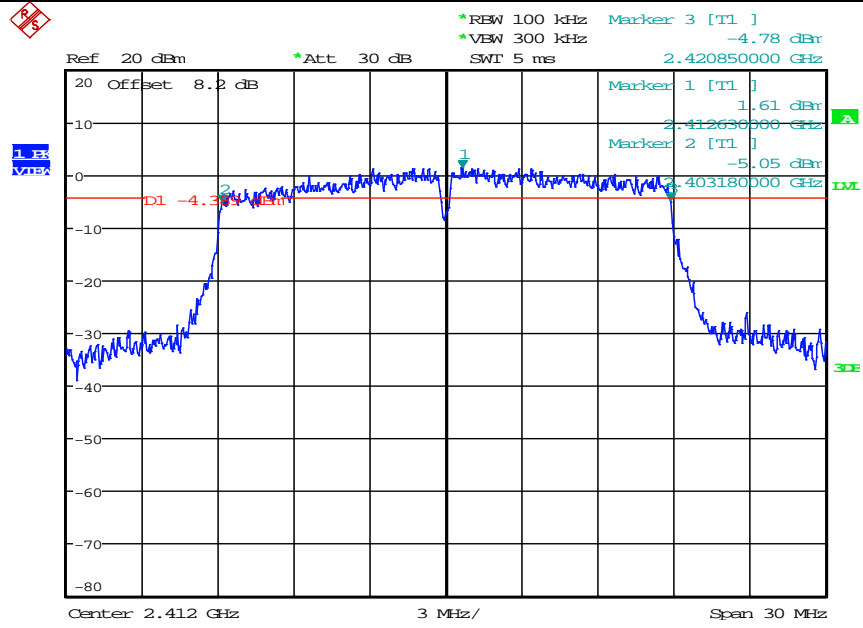
Date: 9.AUG.2019 12:24:07

11G/HCH



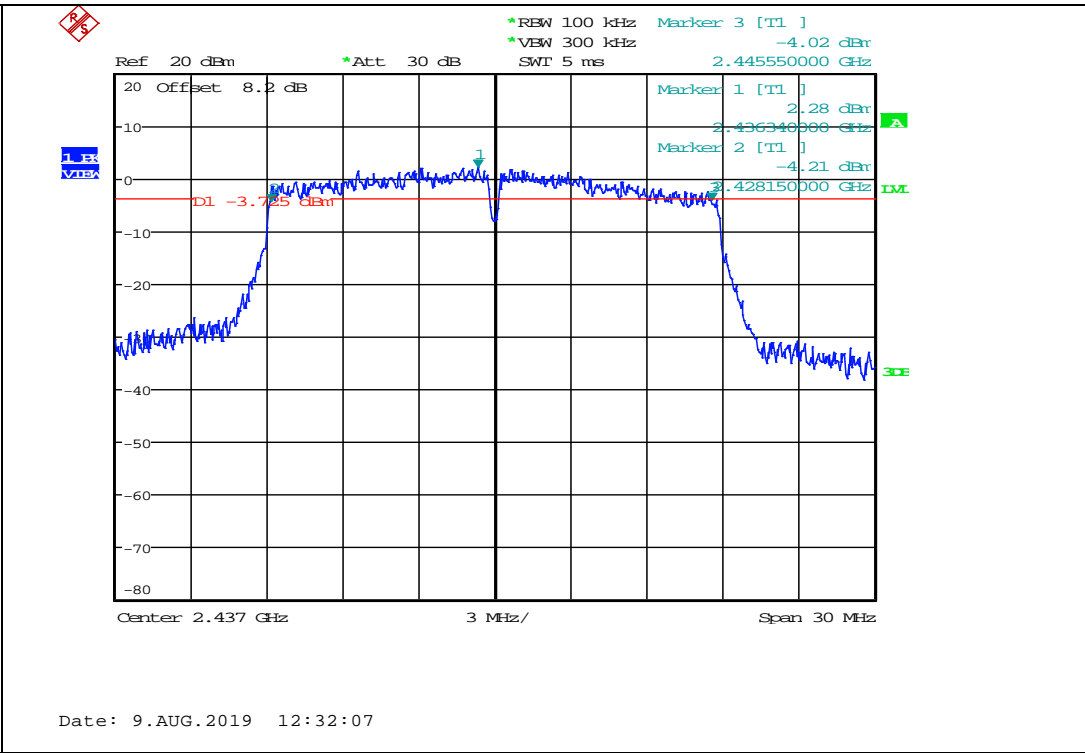
Date: 9.AUG.2019 12:26:00

11N20SISO/LCH

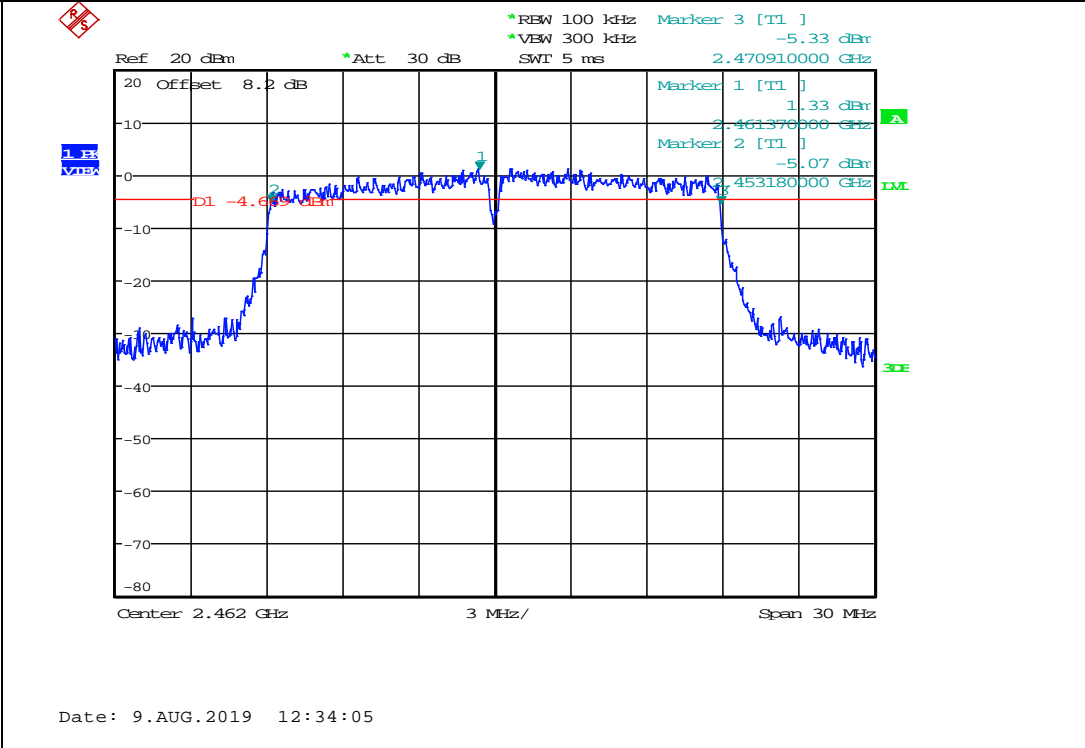


Date: 9.AUG.2019 12:29:32

11N20SISO/MCH



11N20SISO/HCH

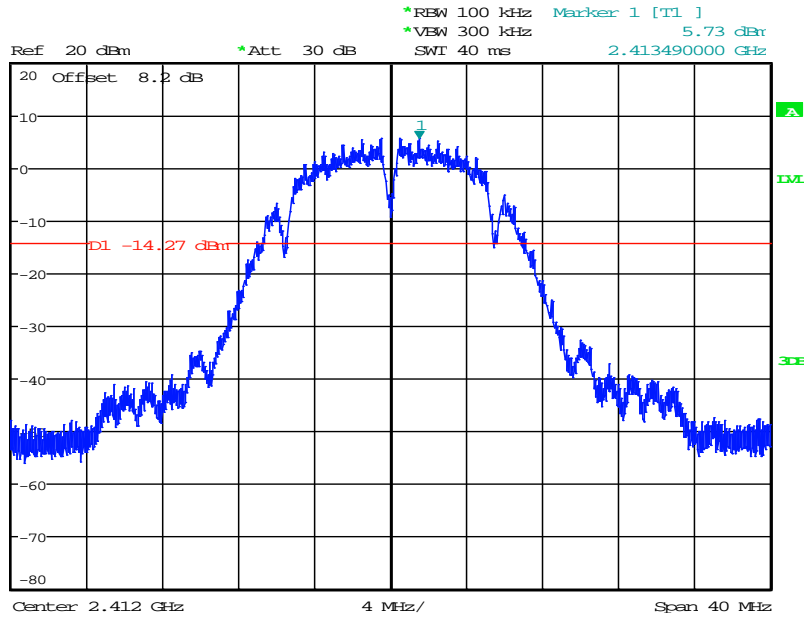


C.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.73	-30.970	-14.270	PASS
	MCH	6.21	-31.550	-13.790	PASS
	HCH	5.53	-32.740	-14.470	PASS
11G	LCH	2.45	-32.370	-17.550	PASS
	MCH	3.81	-32.040	-16.190	PASS
	HCH	3.39	-32.300	-16.610	PASS
11N20 SISO	LCH	1.79	-31.660	-18.210	PASS
	MCH	3.56	-32.660	-16.440	PASS
	HCH	3.12	-31.240	-16.880	PASS

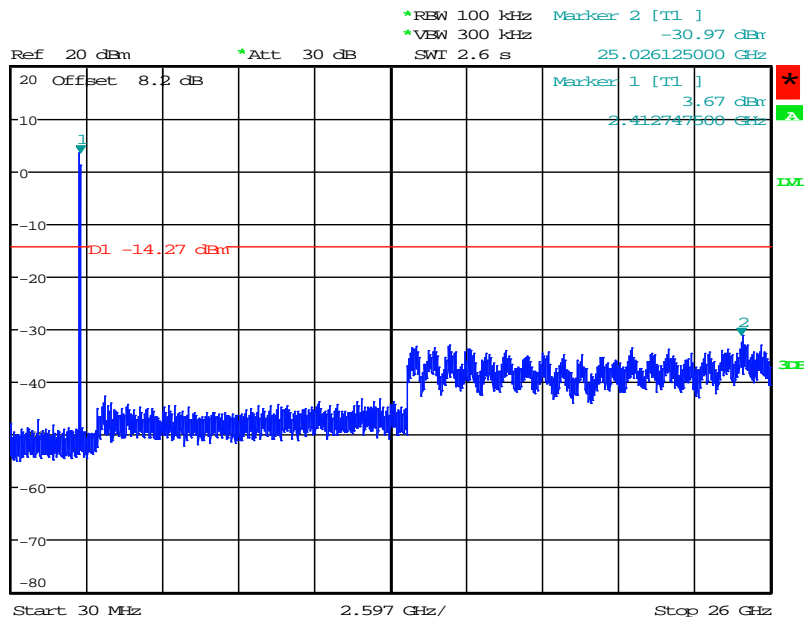
11B_LCH_Graphs

Pref/11B/LCH



Date: 9.AUG.2019 12:57:35

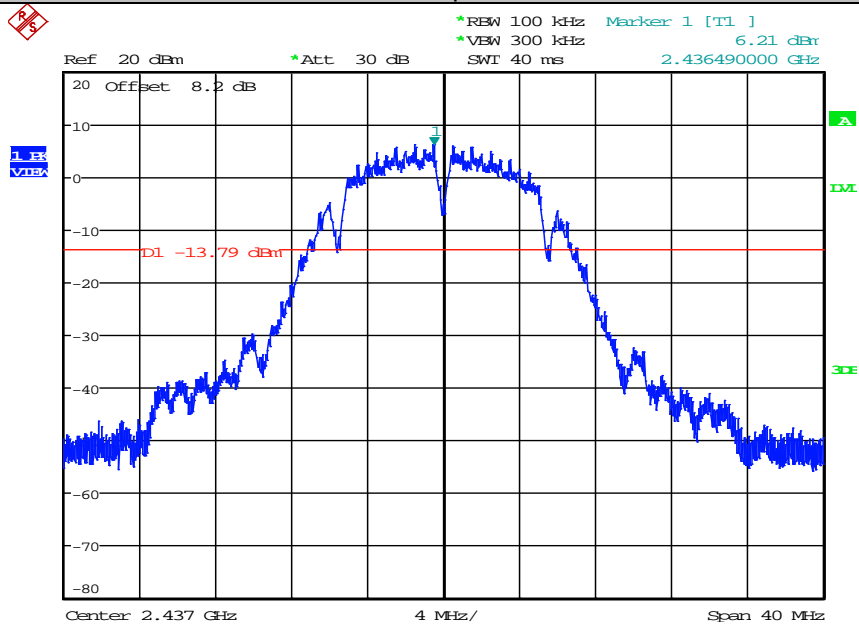
Puw/11B/LCH



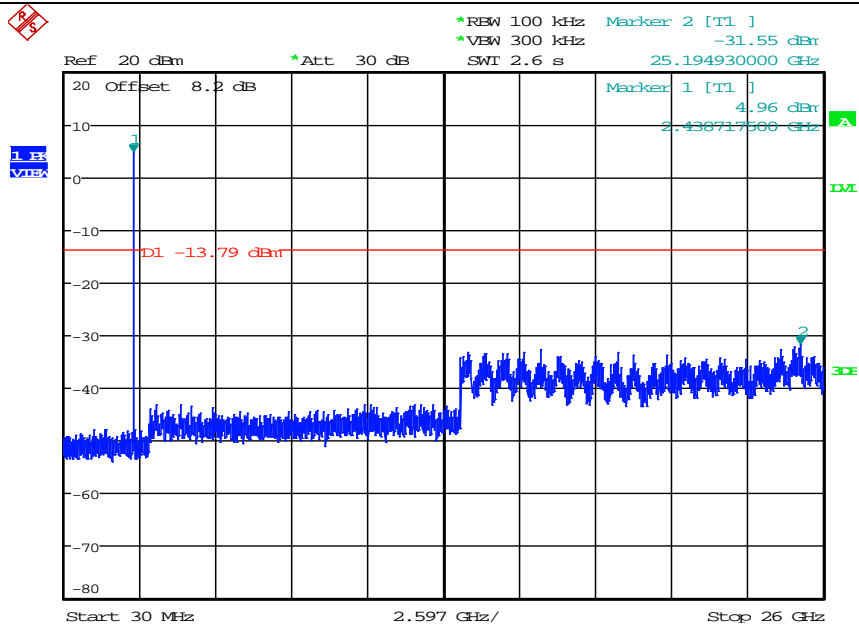
Date: 9.AUG.2019 12:57:53

11B_MCH_Graphs

Pref/11B/MCH

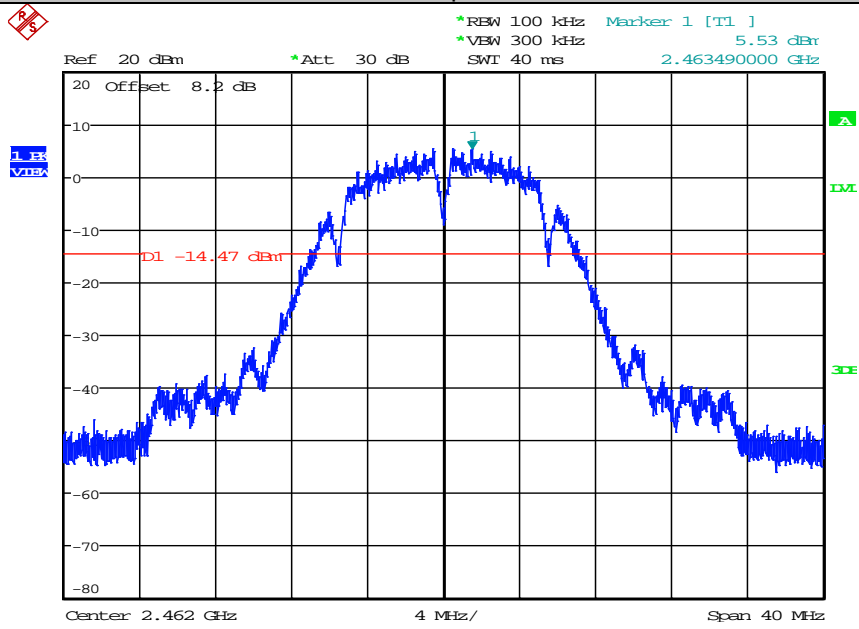


Puw/11B/MCH



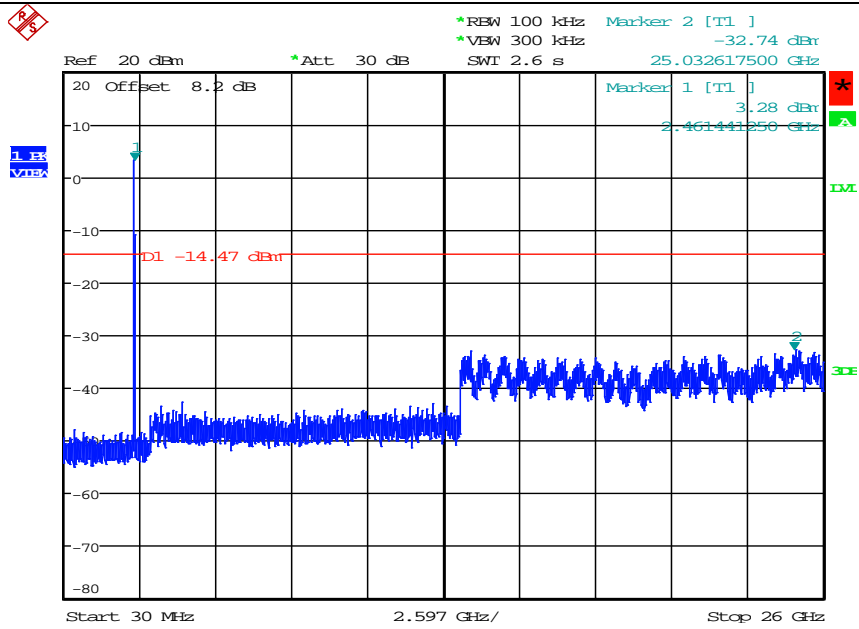
11B_HCH_Graphs

Pref/11B/HCH



Date: 9.AUG.2019 12:59:57

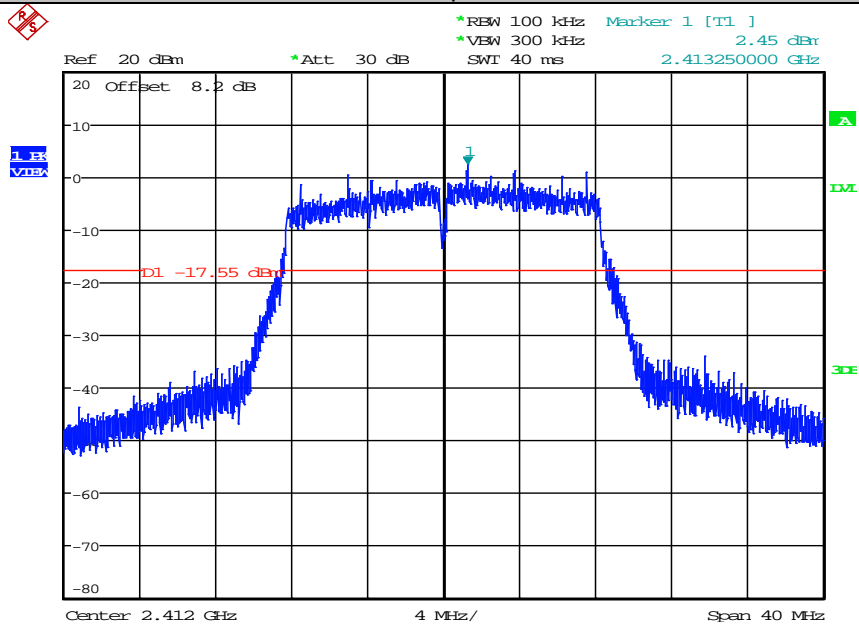
Puw/11B/HCH



Date: 9.AUG.2019 13:00:18

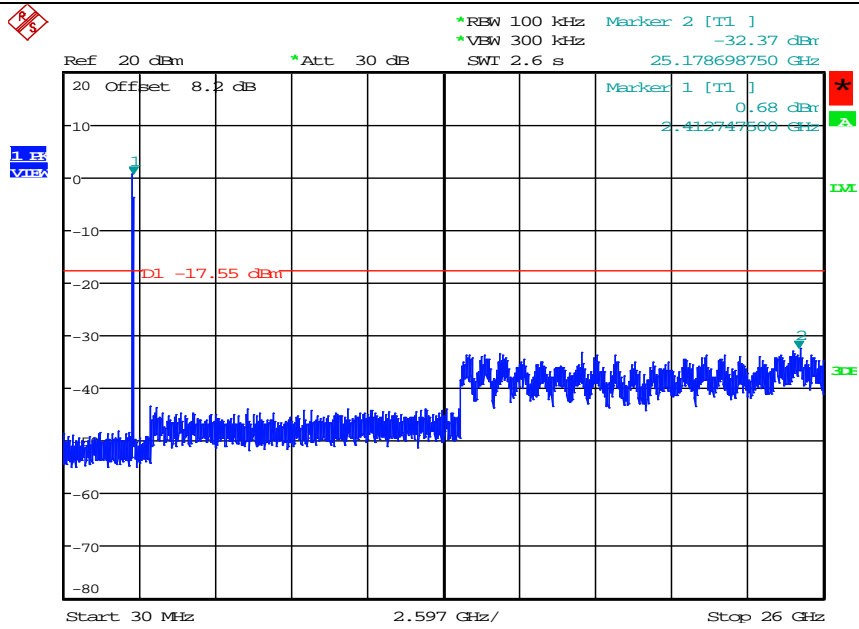
11G_LCH_Graphs

Pref/11G/LCH



Date: 9.AUG.2019 13:00:44

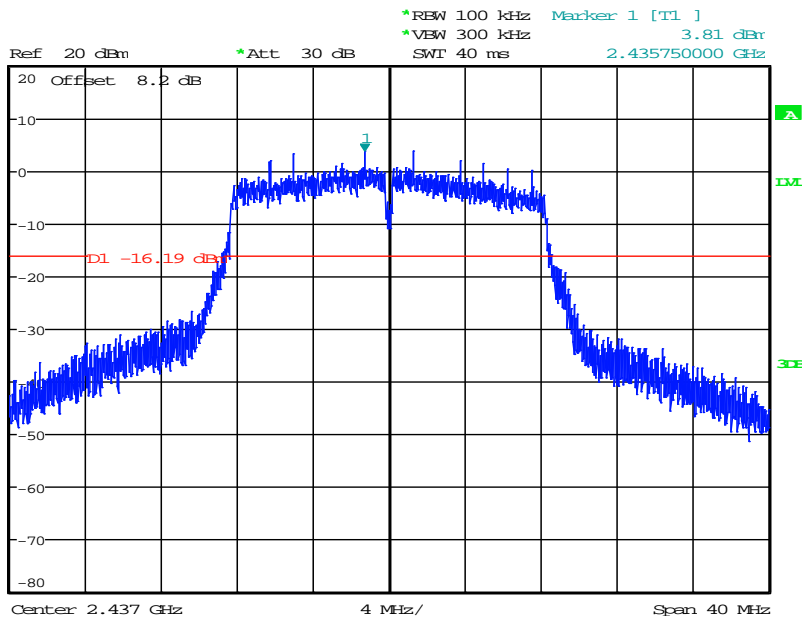
Puw/11G/LCH



Date: 9.AUG.2019 13:01:00

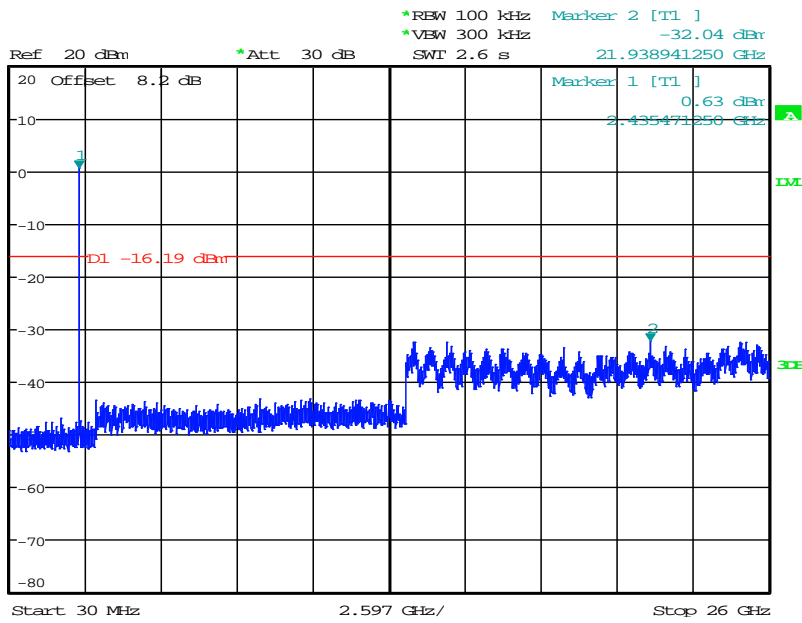
11G_MCH_Graphs

Pref/11G/MCH



Date: 9.AUG.2019 13:02:01

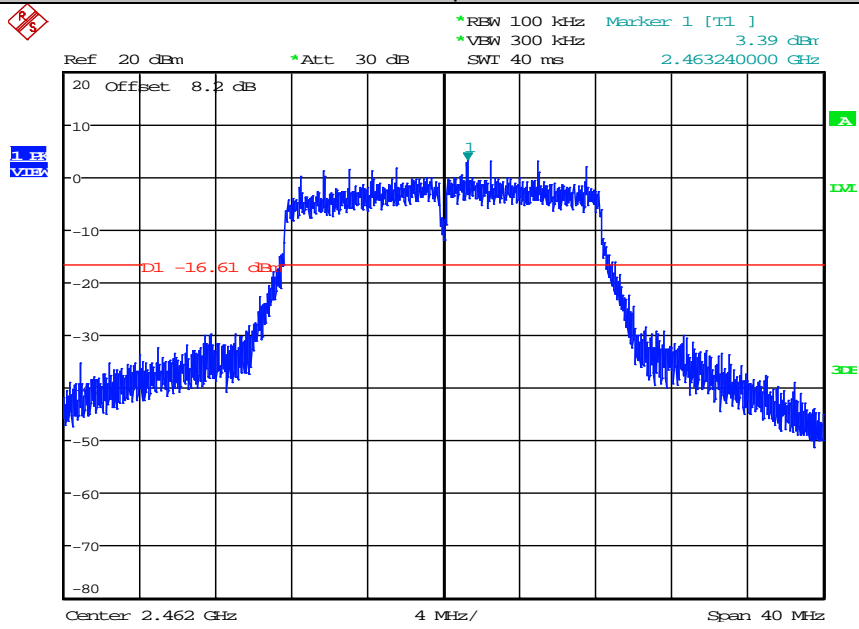
Puw/11G/MCH



Date: 9.AUG.2019 13:02:21

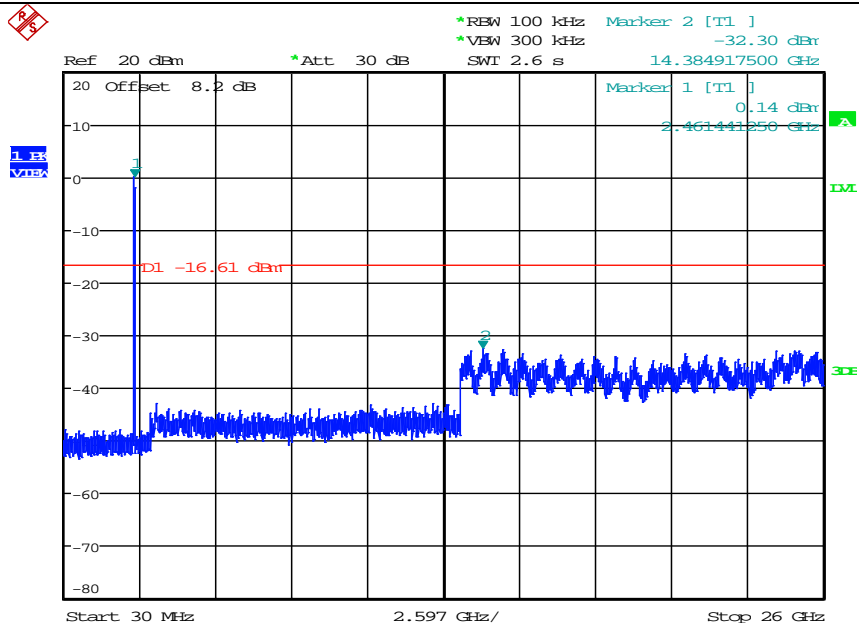
11G_HCH_Graphs

Pref/11G/HCH



Date: 9.AUG.2019 13:02:56

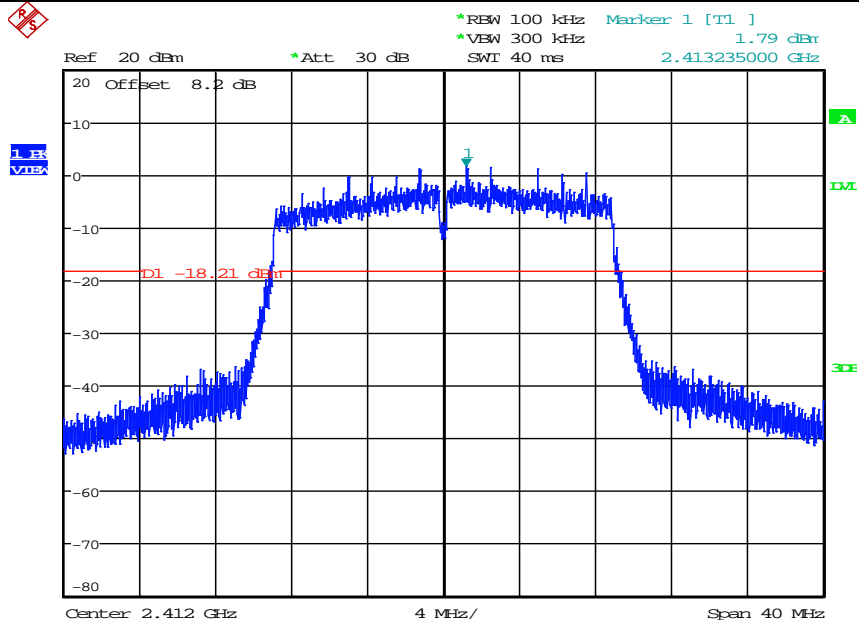
Puw/11G/HCH



Date: 9.AUG.2019 13:03:15

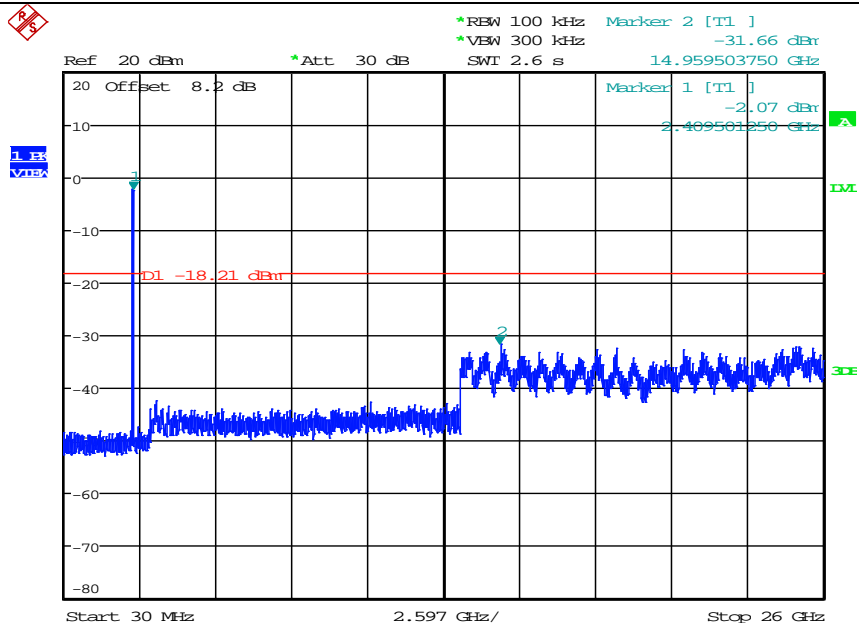
11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH



Date: 9.AUG.2019 13:03:43

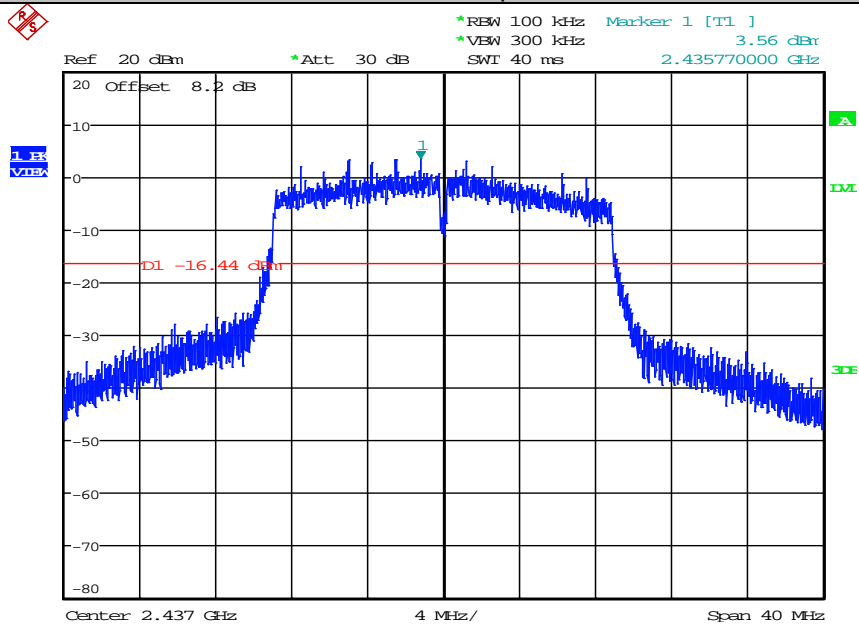
Puw/11N20
SISO/LCH



Date: 9.AUG.2019 13:04:07

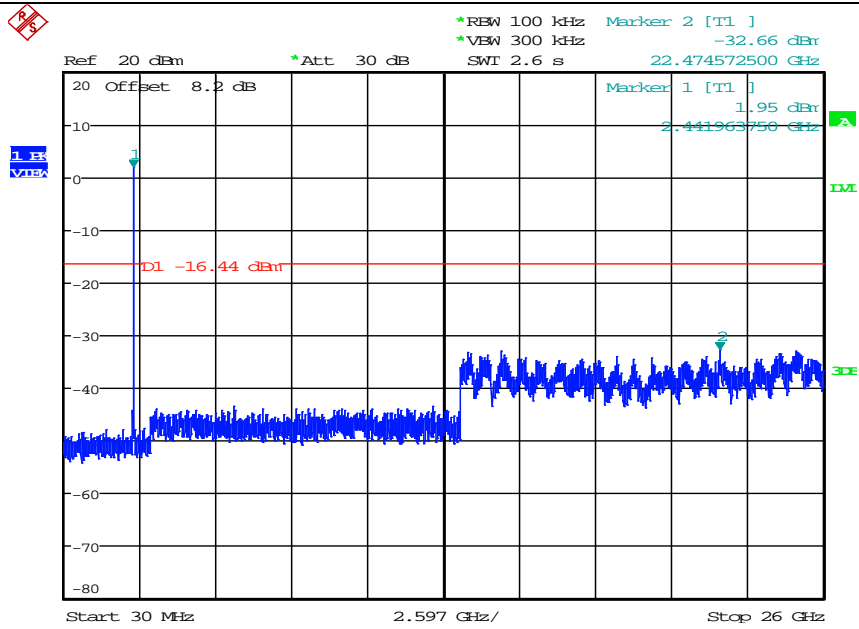
11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH



Date: 9.AUG.2019 13:05:15

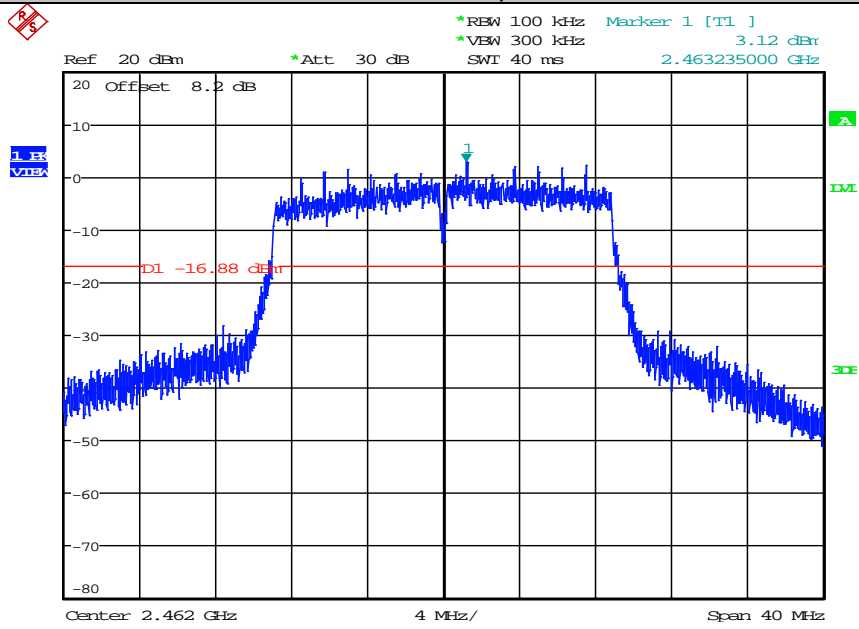
Puw/11N20
SISO/MCH



Date: 9.AUG.2019 13:05:30

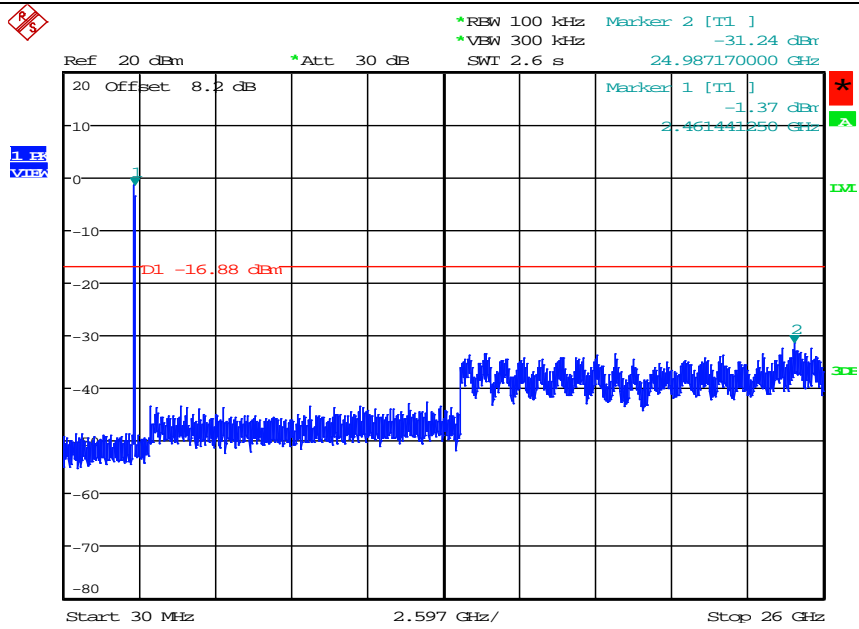
11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH



Date: 9.AUG.2019 13:05:57

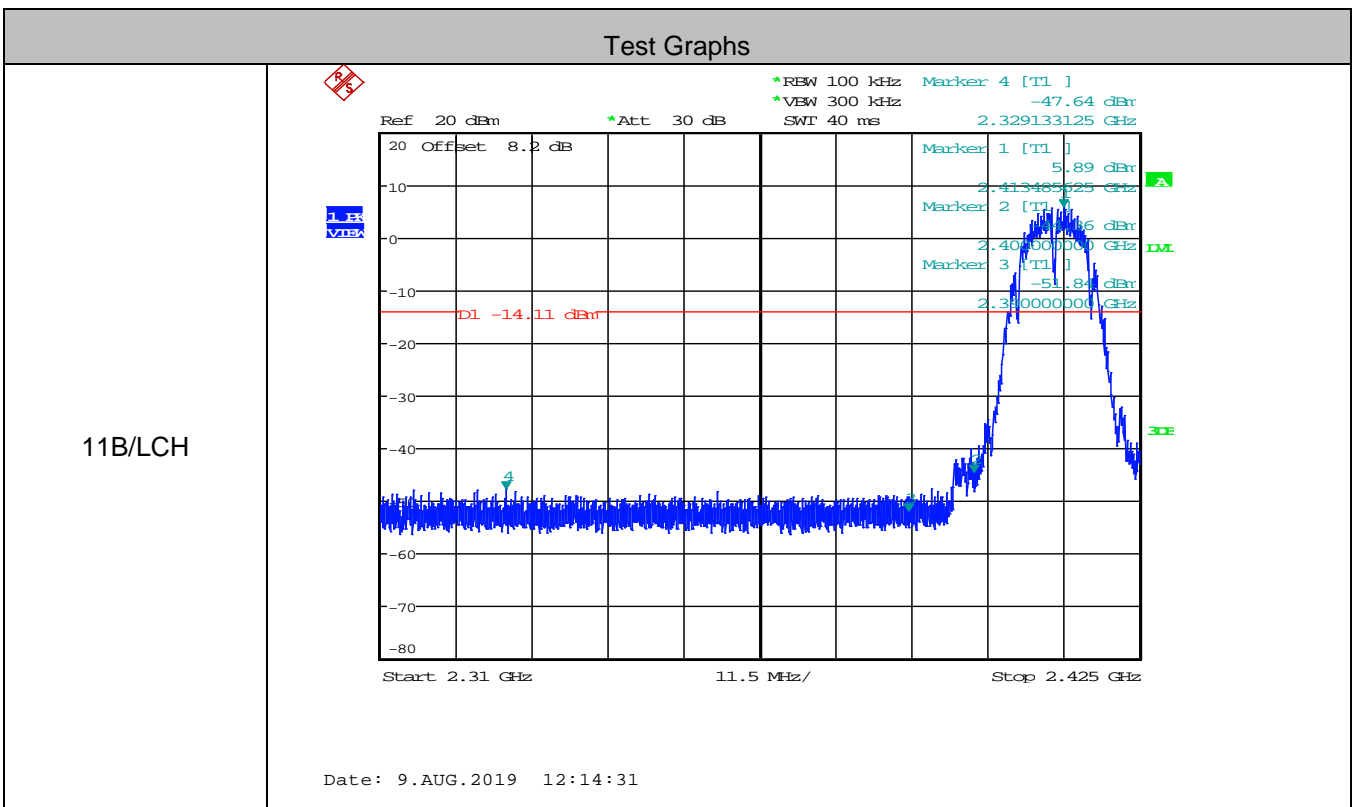
Puw/11N20
SISO/HCH



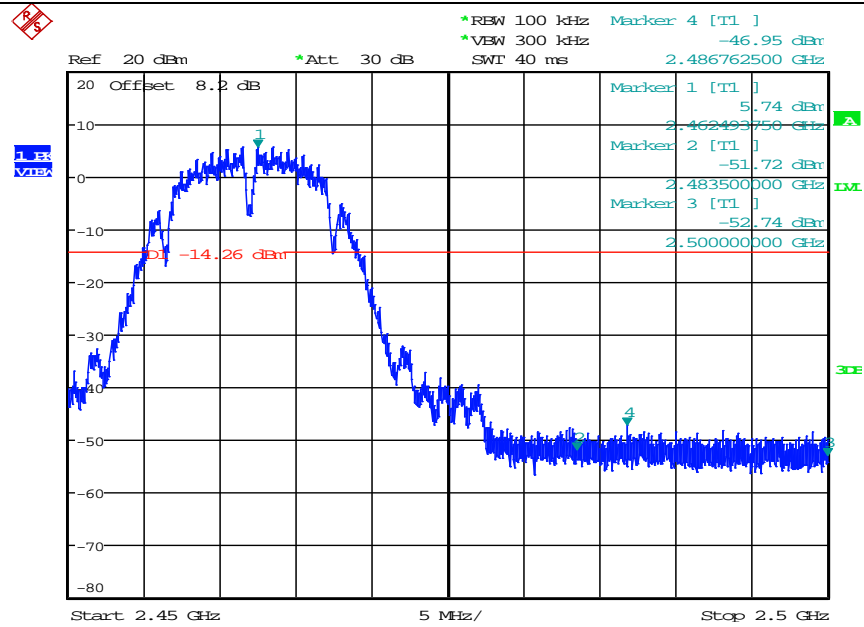
Date: 9.AUG.2019 13:06:17

C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.890	-47.640	-14.11	PASS
	HCH	5.740	-46.947	-14.26	PASS
11G	LCH	1.690	-46.853	-18.31	PASS
	HCH	1.370	-45.490	-18.63	PASS
11N20SISO	LCH	1.250	-44.487	-18.75	PASS
	HCH	1.210	-43.881	-18.79	PASS

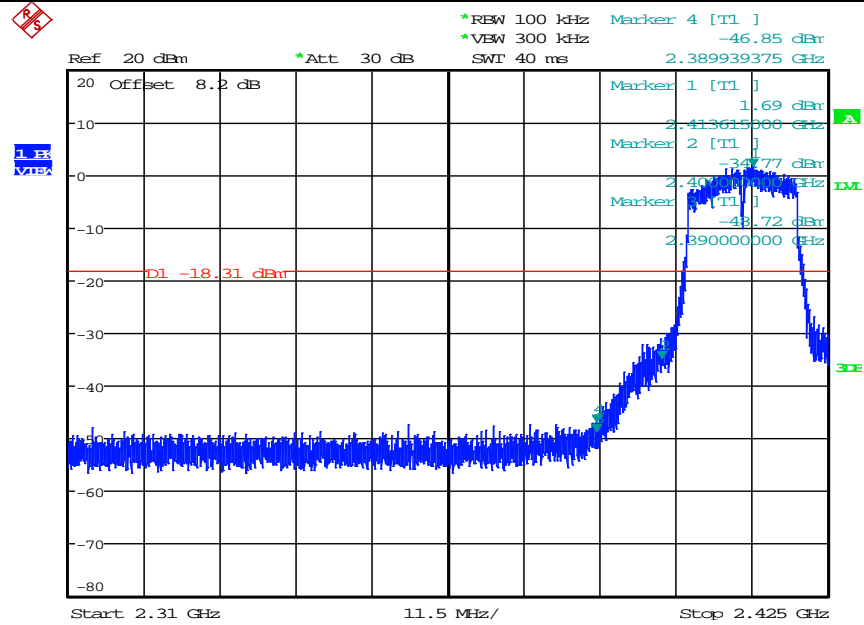


11B/HCH



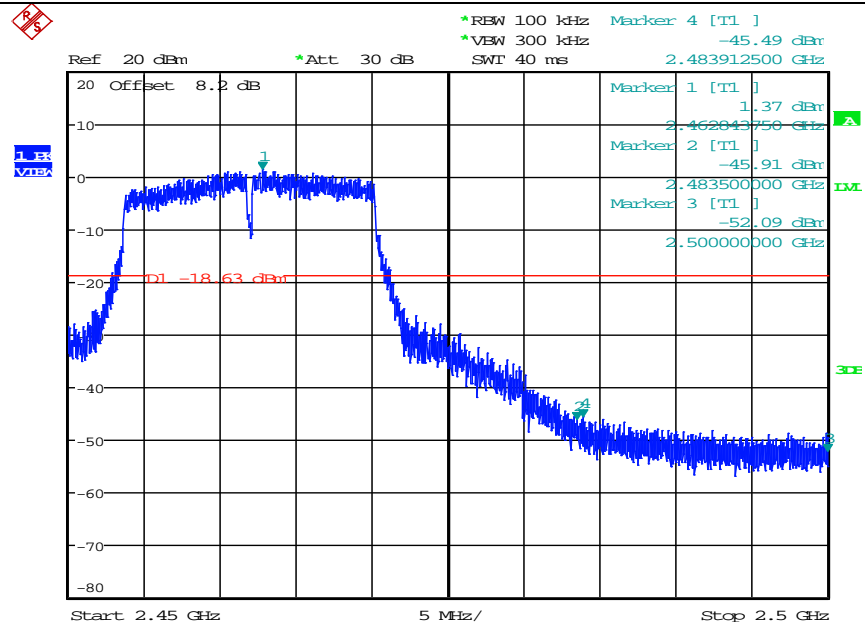
Date: 9.AUG.2019 12:19:34

11G/LCH



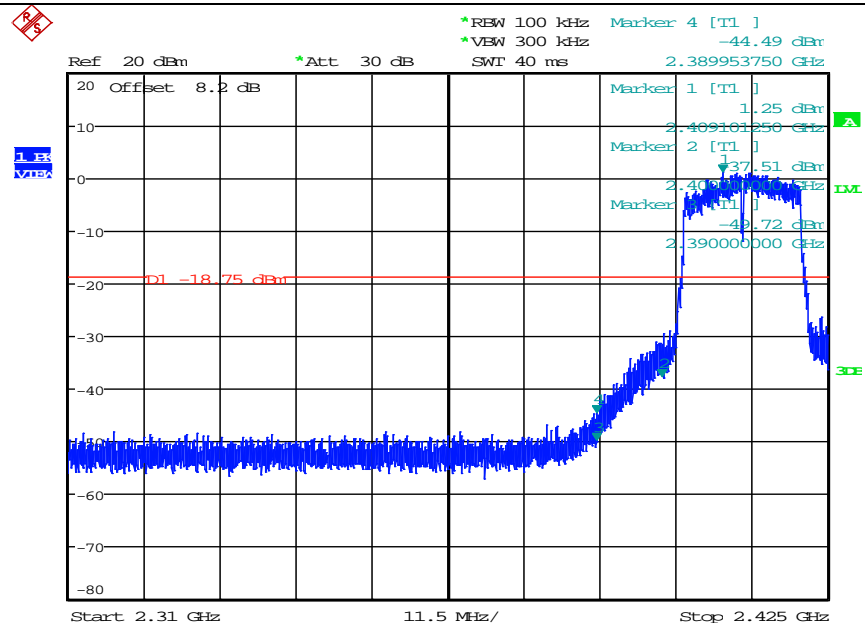
Date: 9.AUG.2019 12:22:15

11G/HCH



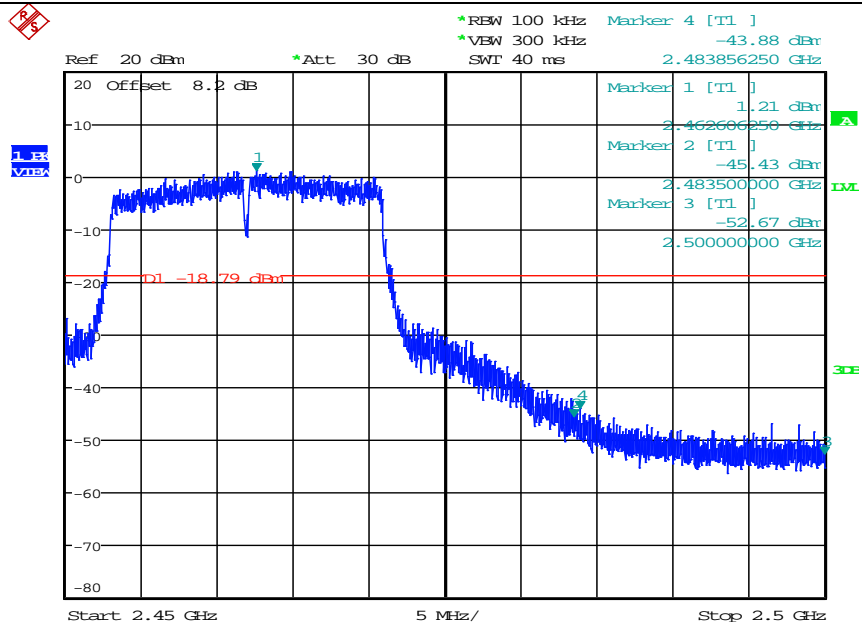
Date: 9.AUG.2019 12:27:01

11N20SISO/LCH



Date: 9.AUG.2019 12:30:32

11N20SISO/HCH

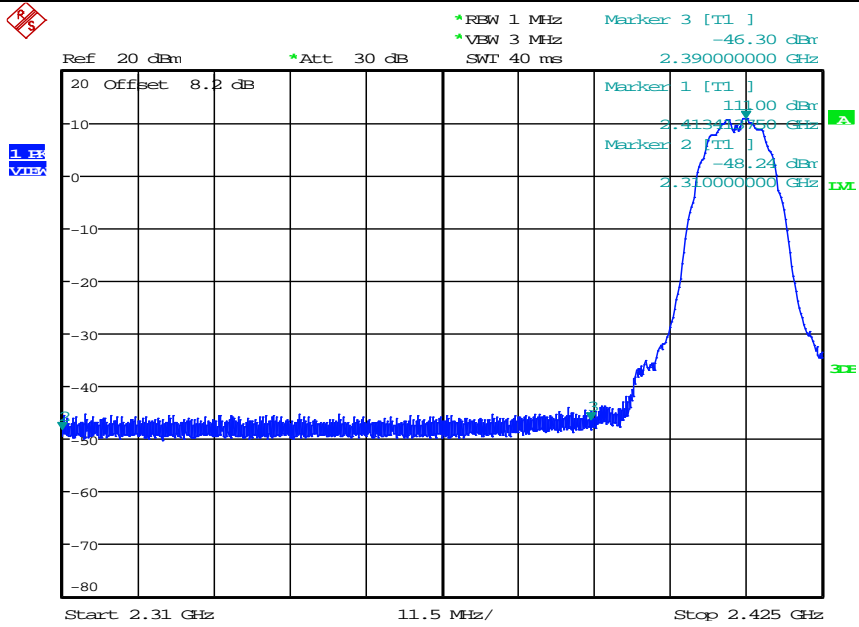


Date: 9.AUG.2019 12:35:05

C.7 Restrict-band band-edge measurements

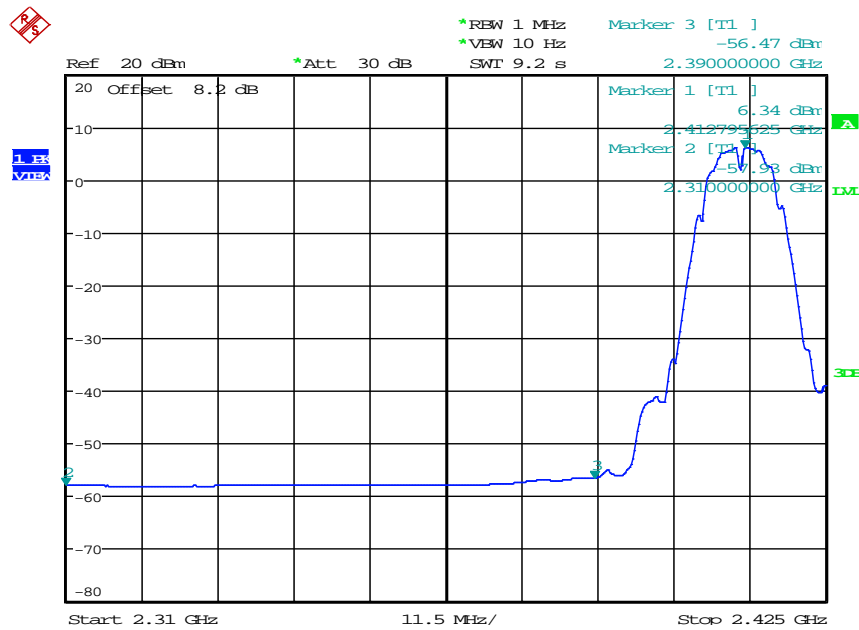
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-48.24	2.0	0	49.02	PEAK	74	PASS
	2412	Ant1	2310.0	-57.93	2.0	0	39.33	AV	54	PASS
	2412	Ant1	2390.0	-46.30	2.0	0	50.96	PEAK	74	PASS
	2412	Ant1	2390.0	-56.47	2.0	0	40.79	AV	54	PASS
	2462	Ant1	2483.5	-42.84	2.0	0	54.42	PEAK	74	PASS
	2462	Ant1	2483.5	-54.72	2.0	0	42.54	AV	54	PASS
	2462	Ant1	2500.0	-48.48	2.0	0	48.78	PEAK	74	PASS
	2462	Ant1	2500.0	-57.81	2.0	0	39.45	AV	54	PASS
11G	2412	Ant1	2310.0	-48.76	2.0	0	48.50	PEAK	74	PASS
	2412	Ant1	2310.0	-57.94	2.0	0	39.32	AV	54	PASS
	2412	Ant1	2390.0	-42.48	2.0	0	54.78	PEAK	74	PASS
	2412	Ant1	2390.0	-53.67	2.0	0	43.59	AV	54	PASS
	2462	Ant1	2483.5	-36.98	2.0	0	60.28	PEAK	74	PASS
	2462	Ant1	2483.5	-48.87	2.0	0	48.39	AV	54	PASS
	2462	Ant1	2500.0	-48.46	2.0	0	48.80	PEAK	74	PASS
	2462	Ant1	2500.0	-57.93	2.0	0	39.33	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-46.10	2.0	0	51.16	PEAK	74	PASS
	2412	Ant1	2310.0	-57.95	2.0	0	39.31	AV	54	PASS
	2412	Ant1	2390.0	-39.14	2.0	0	58.12	PEAK	74	PASS
	2412	Ant1	2390.0	-52.97	2.0	0	44.29	AV	54	PASS
	2462	Ant1	2483.5	-34.16	2.0	0	63.10	PEAK	74	PASS
	2462	Ant1	2483.5	-47.60	2.0	0	49.66	AV	54	PASS
	2462	Ant1	2500.0	-48.11	2.0	0	49.15	PEAK	74	PASS
	2462	Ant1	2500.0	-58.00	2.0	0	39.26	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



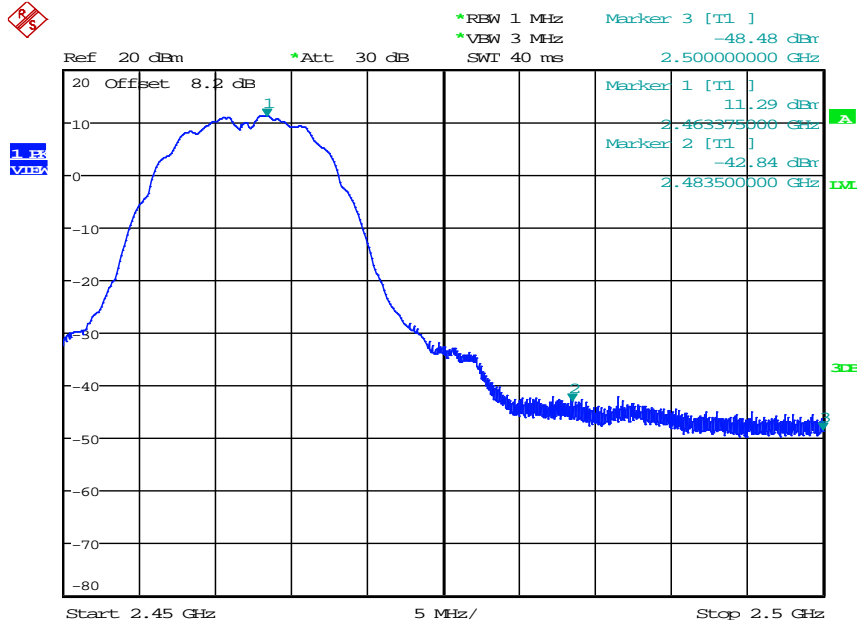
Date: 9.AUG.2019 12:58:12

Restrict-band band-edge measurements_11B_2412_Ant1_AV



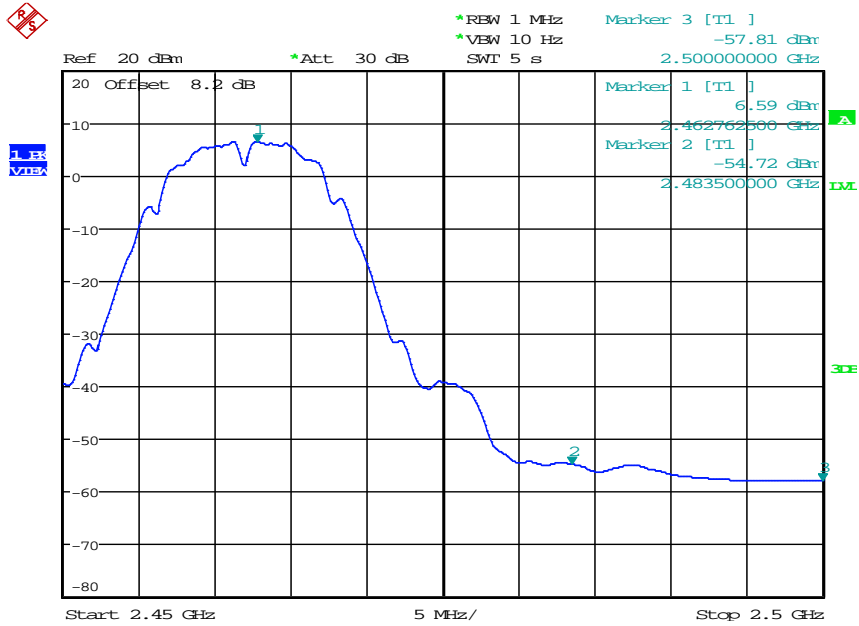
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Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



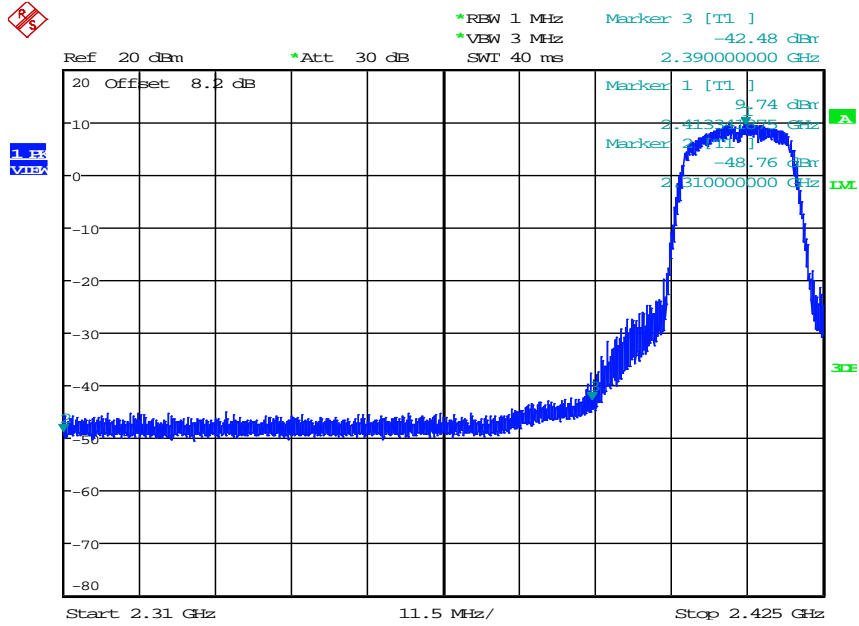
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Restrict-band band-edge measurements_11B_2462_Ant1_AV



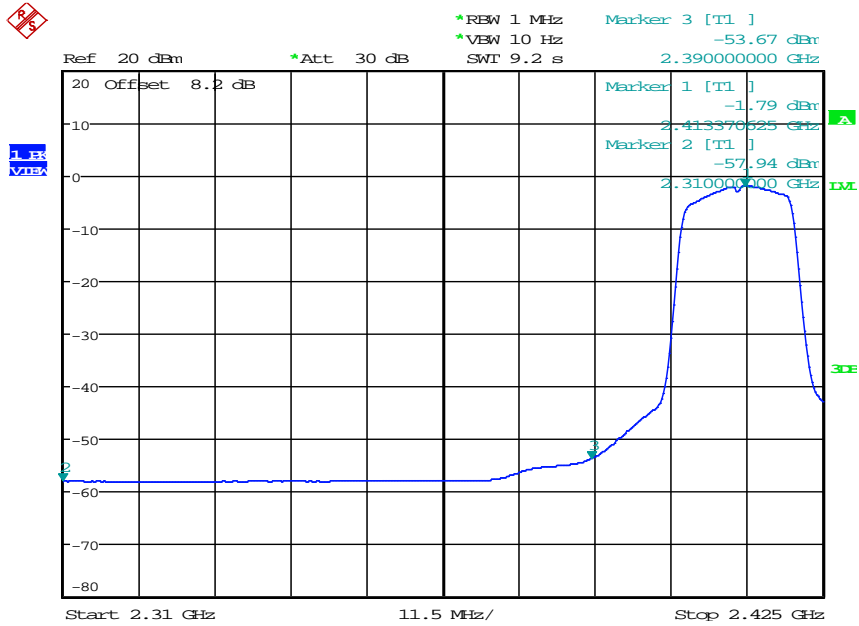
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Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



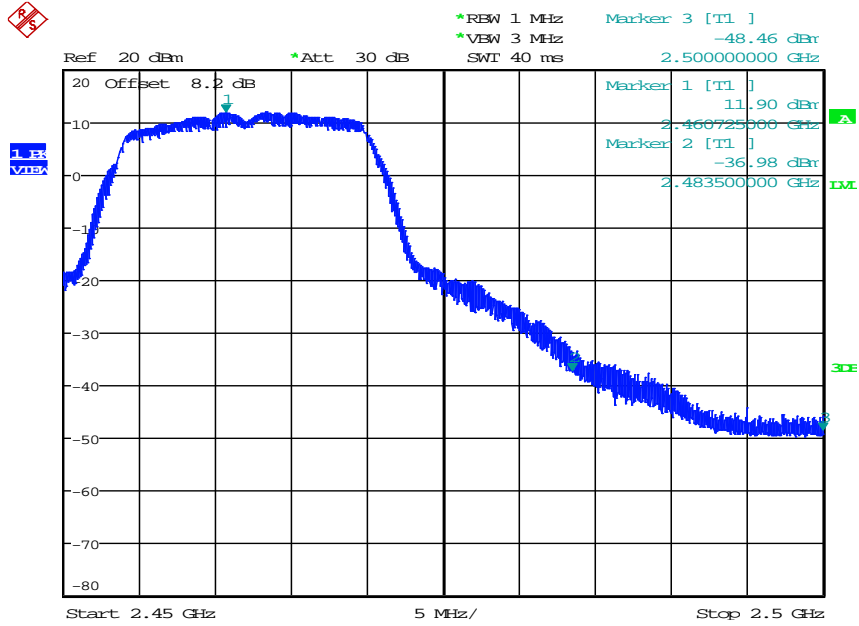
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Restrict-band band-edge measurements_11G_2412_Ant1_AV



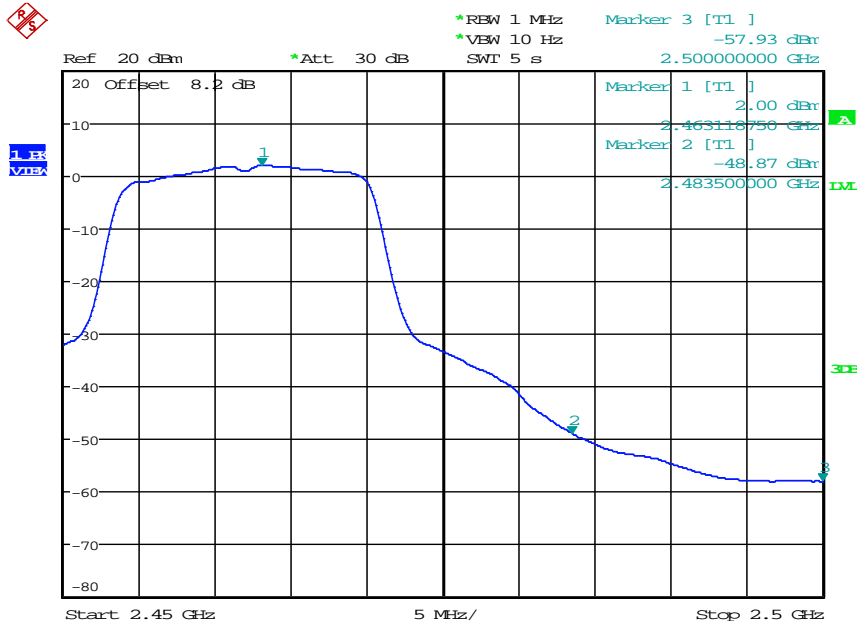
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Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



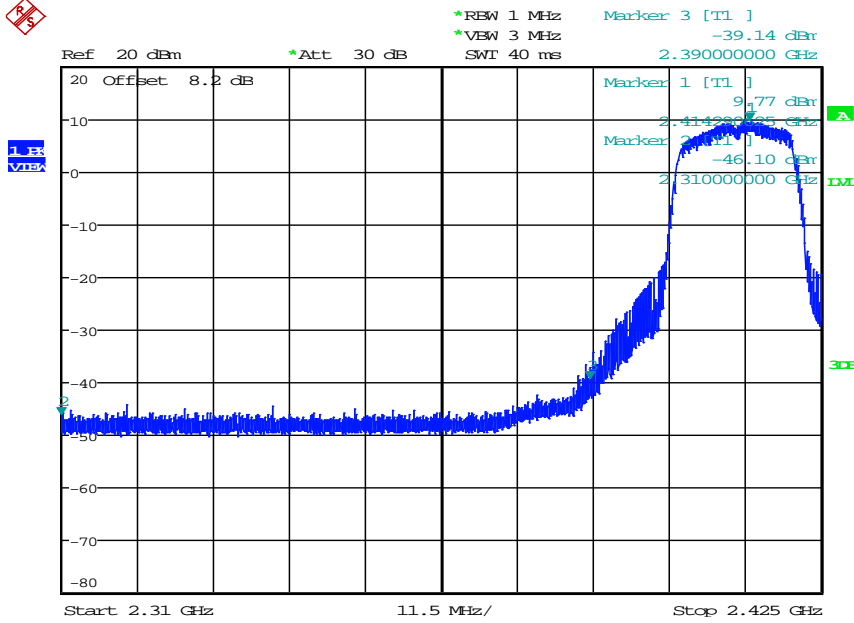
Date: 9.AUG.2019 12:27:45

Restrict-band band-edge measurements_11G_2462_Ant1_AV



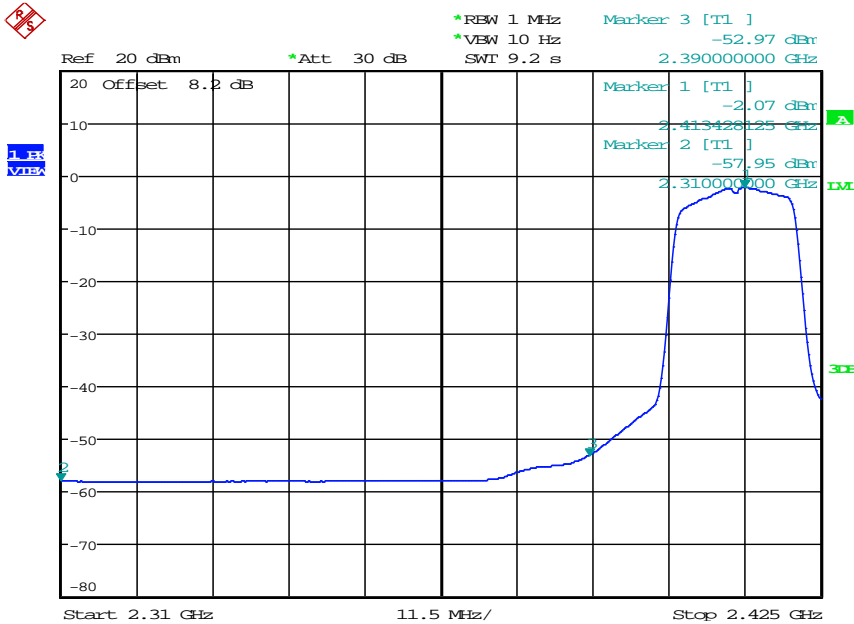
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Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



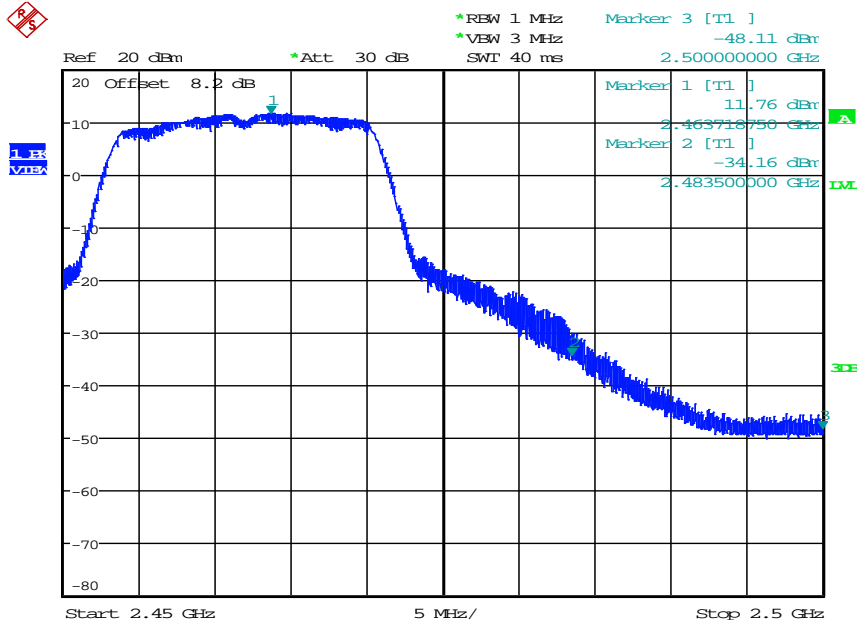
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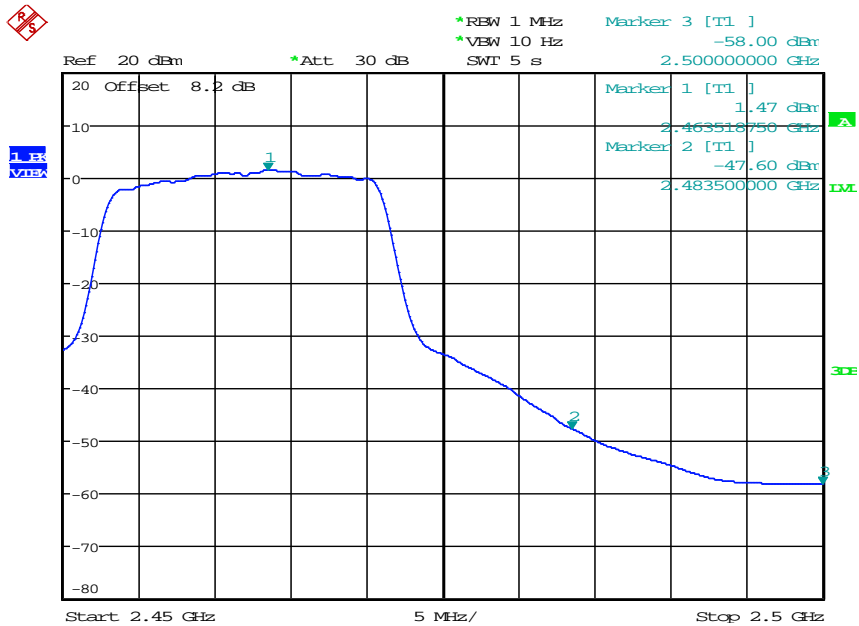
Date: 9.AUG.2019 13:04:48

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Date: 9.AUG.2019 12:35:49

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



Date: 9.AUG.2019 12:36:04