

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Nexersys Console

Trade Mark: Nexersys

Test Model: NXST22

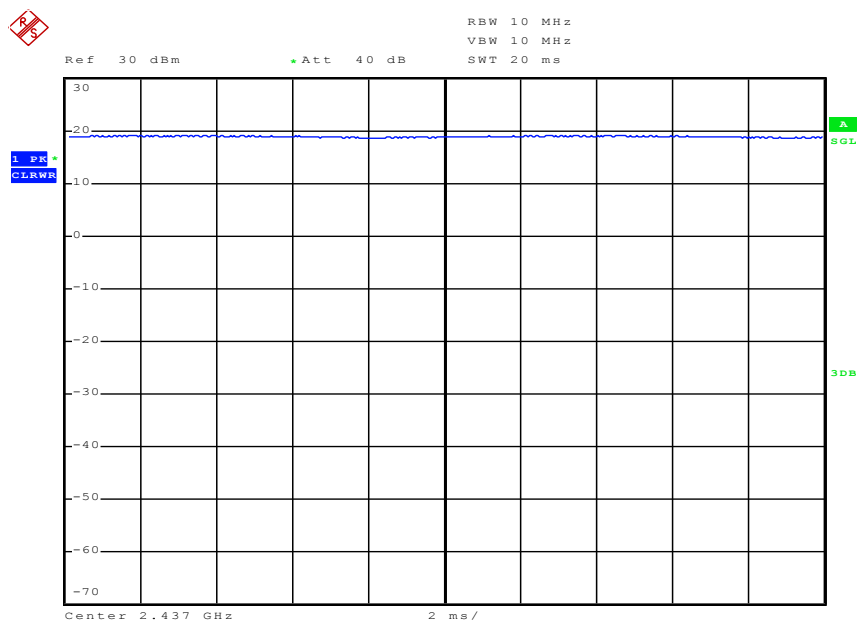
Environmental Conditions

Temperature:	24.7 ° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang Chuang

B.1 Duty Cycle

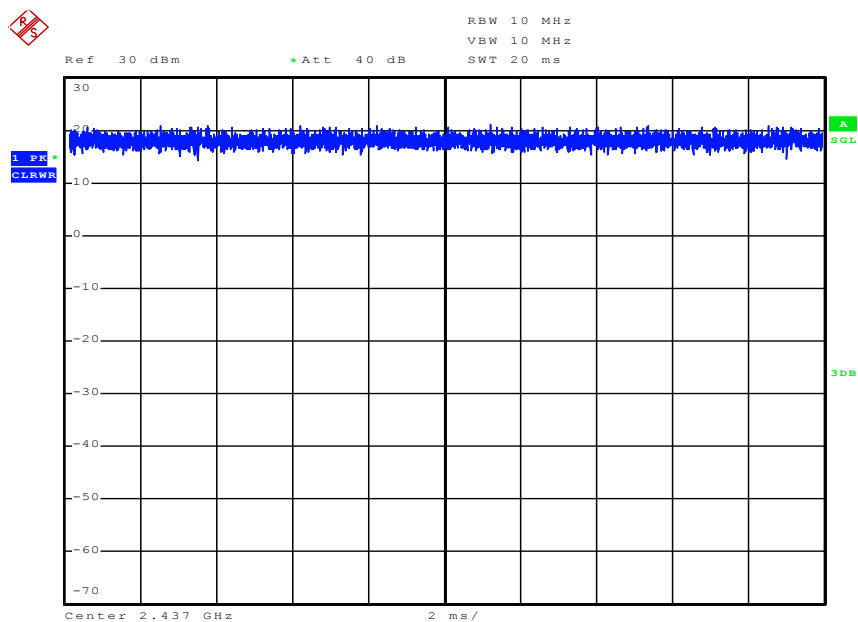
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS

Duty Cycle_11B_2437_Ant1



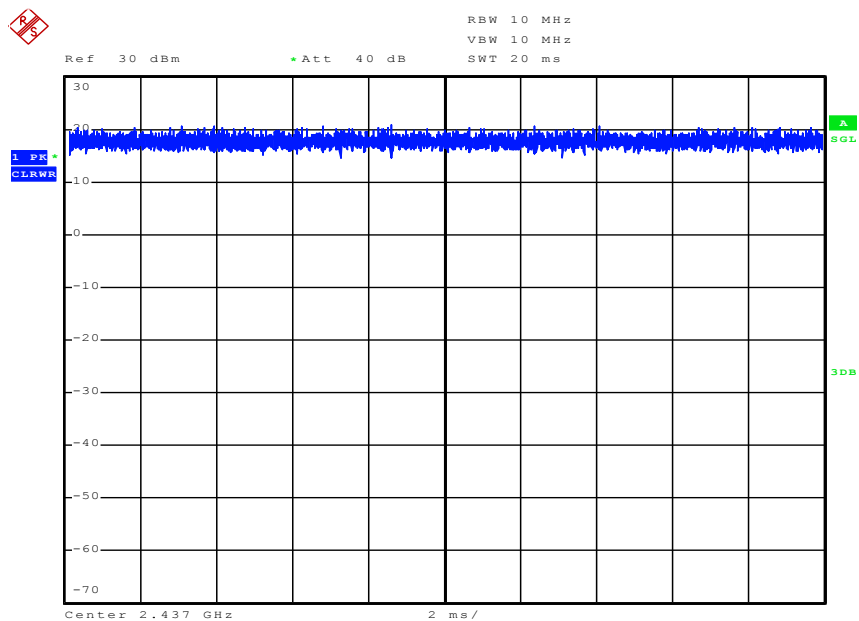
Date: 22.SEP.2019 14:44:44

Duty Cycle_11G_2437_Ant1



Date: 22.SEP.2019 14:45:07

Duty Cycle_11N20SISO_2437_Ant1



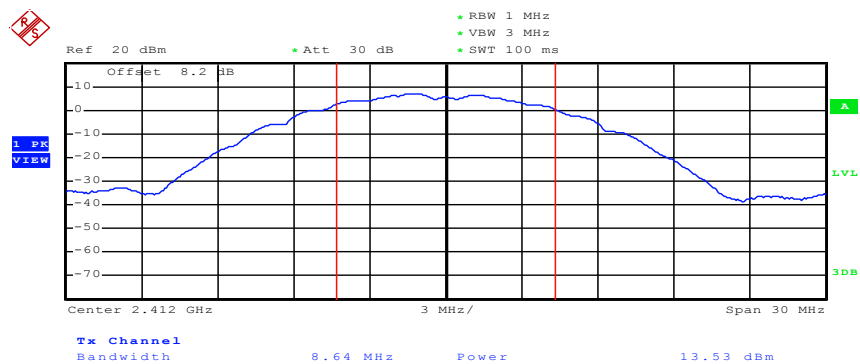
Date: 22.SEP.2019 14:45:29

B.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	13.53	30	PASS
	MCH	13.87	30	PASS
	HCH	13.35	30	PASS
11G	LCH	18.27	30	PASS
	MCH	18.30	30	PASS
	HCH	18.18	30	PASS
11N20SISO	LCH	18.19	30	PASS
	MCH	18.15	30	PASS
	HCH	18.07	30	PASS

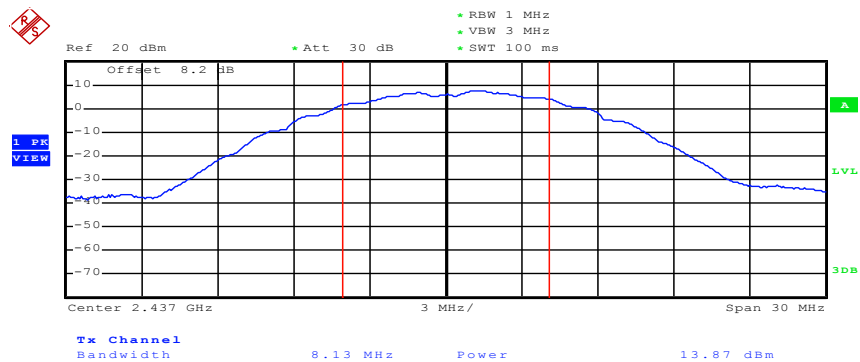
Test Graphs

11B/LCH



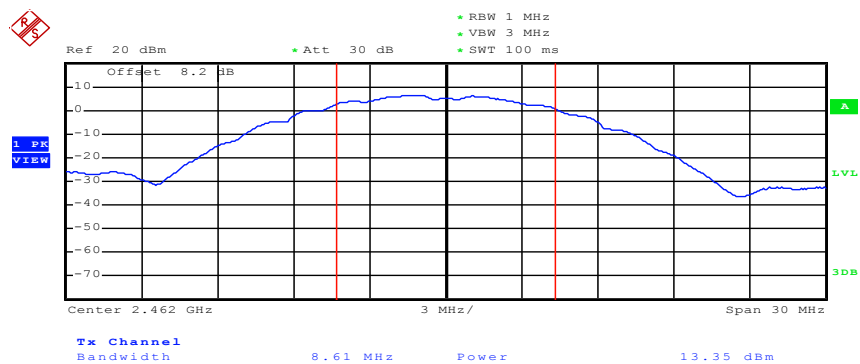
Date: 22 SEP 2019 14:09:19

11B/MCH



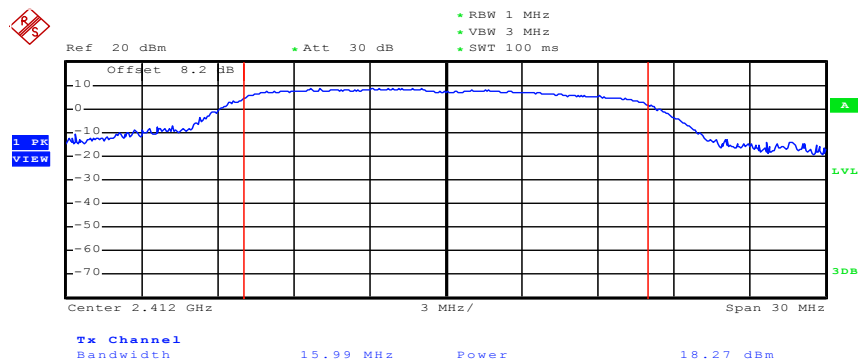
Date: 22 SEP 2019 14:12:01

11B/HCH



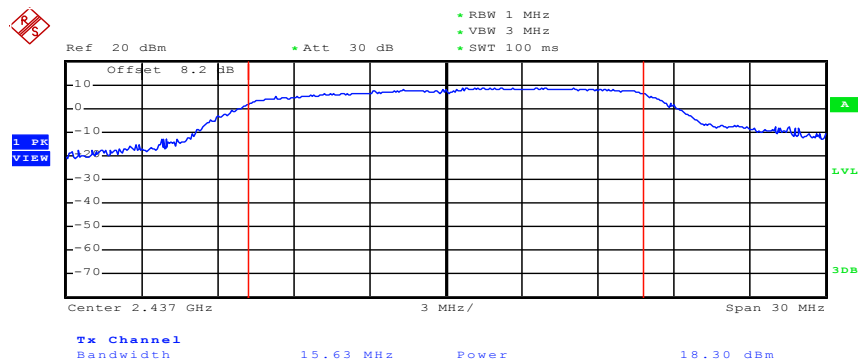
Date: 22.SEP.2019 14:13:46

11G/LCH



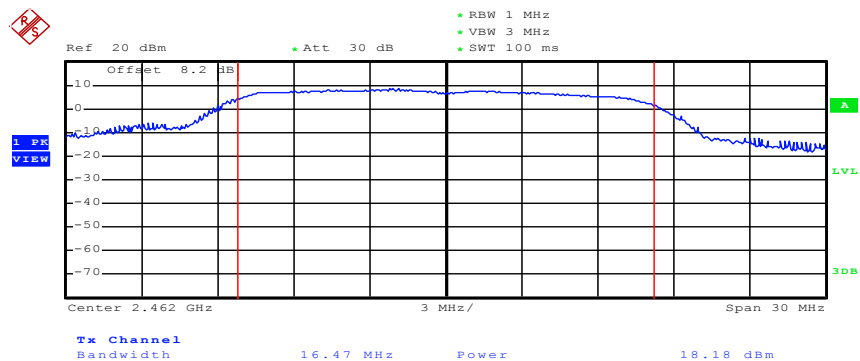
Date: 22 SEP 2019 14:16:22

11G/MCH



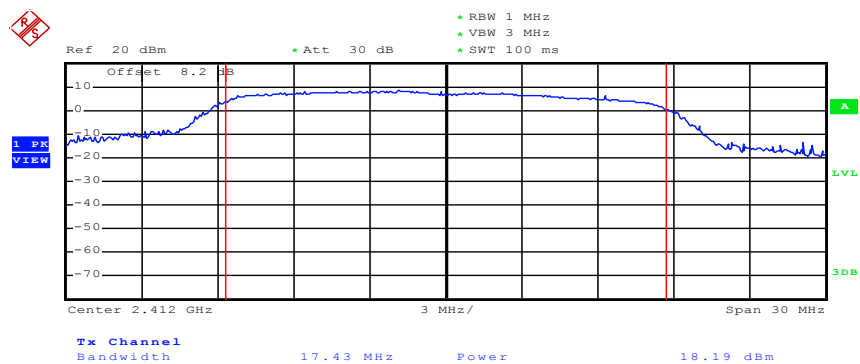
Date: 22.SEP.2019 14:23:13

11G/HCH



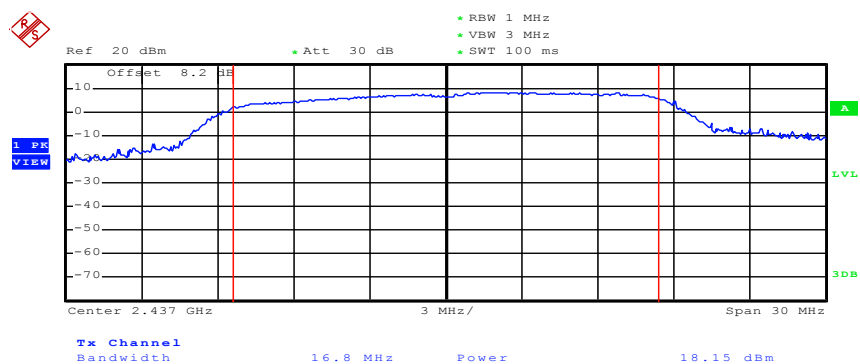
Date: 22 SEP 2019 14:25:01

11N20SISO/LCH



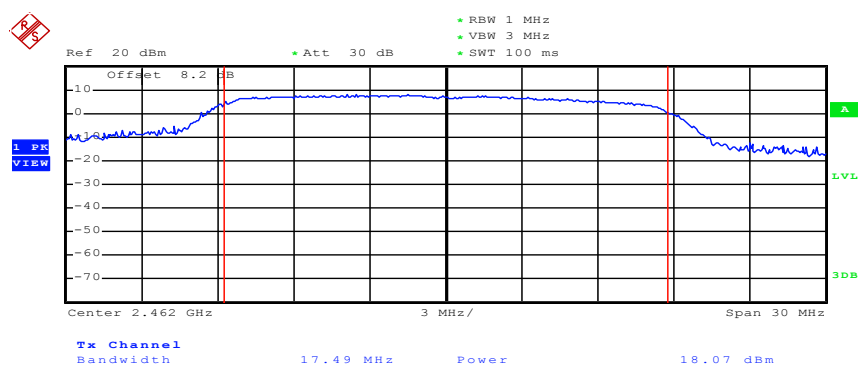
Date: 22.SEP.2019 14:27:39

11N20SISO/MCH



Date: 22.SEP.2019 14:31:30

11N20SISO/HCH



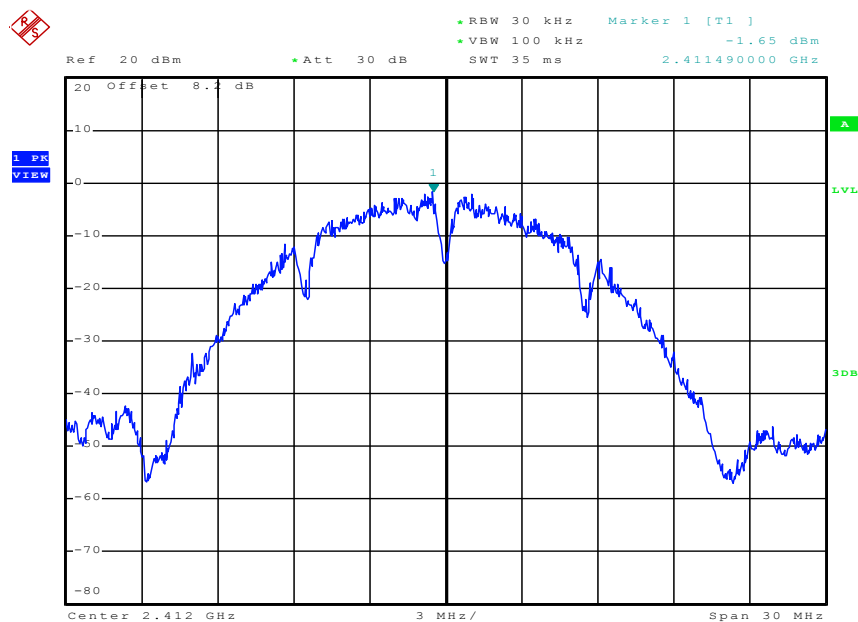
Date: 22.SEP.2019 14:33:13

B.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-1.650	8	PASS
	MCH	-1.630	8	PASS
	HCH	-1.680	8	PASS
11G	LCH	-4.430	8	PASS
	MCH	-4.180	8	PASS
	HCH	-4.860	8	PASS
11N20SISO	LCH	-4.920	8	PASS
	MCH	-5.300	8	PASS
	HCH	-5.260	8	PASS

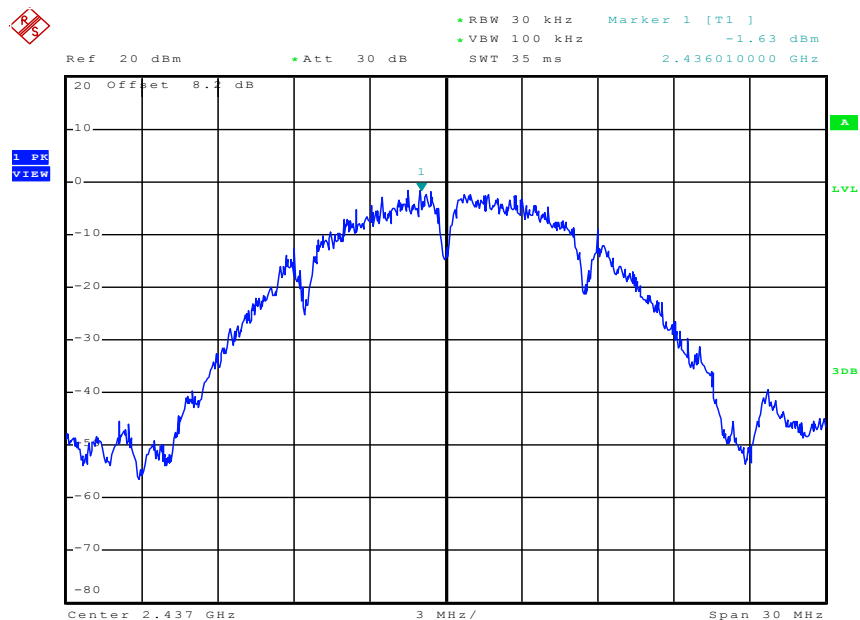
Test Graphs

11B/LCH



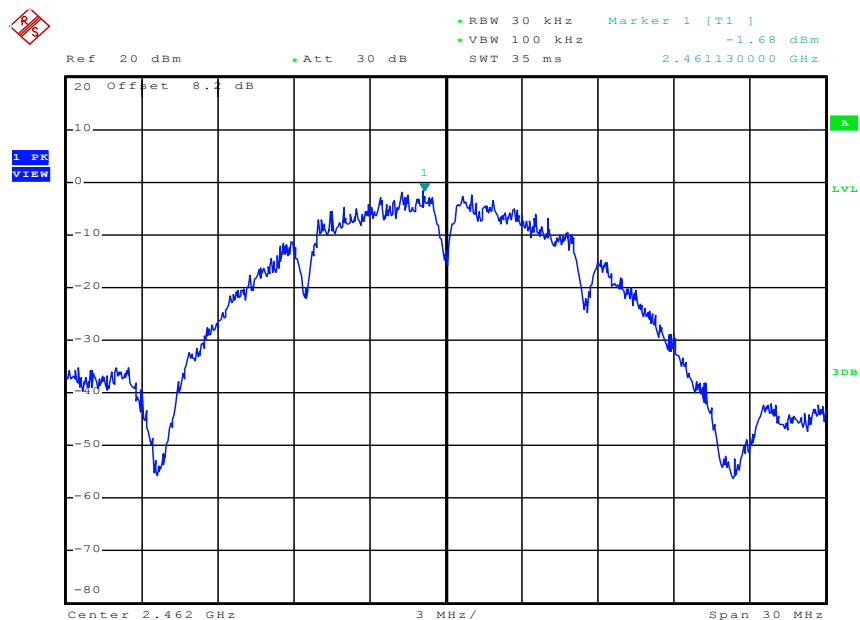
Date: 22 SEP 2019 14:09:32

11B/MCH



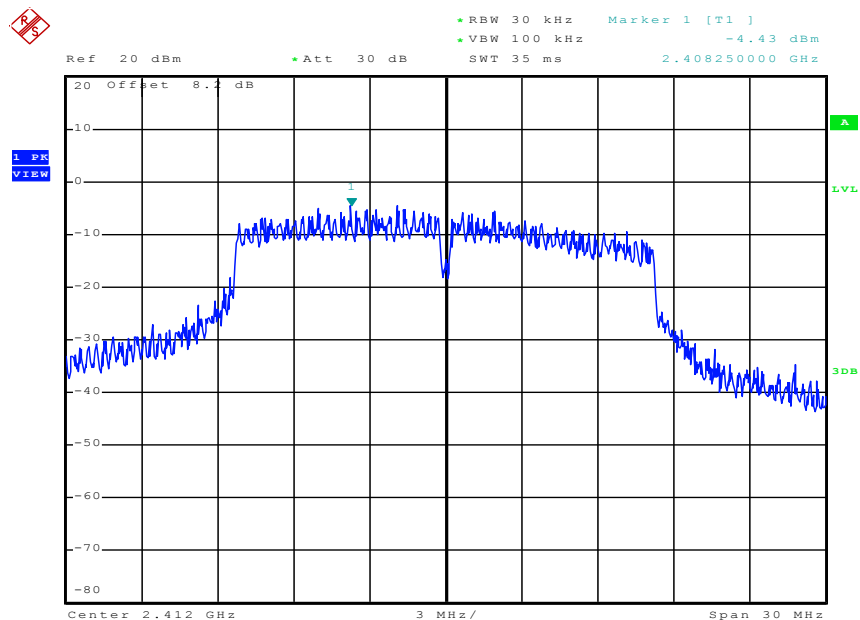
Date: 22.SEP.2019 14:12:14

11B/HCH



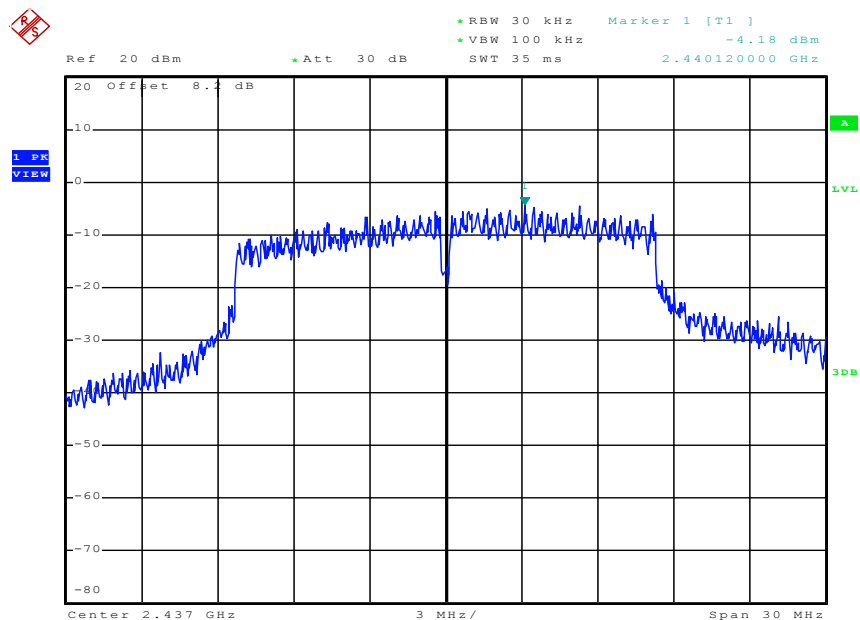
Date: 22 SEP 2019 14:13:59

11G/LCH



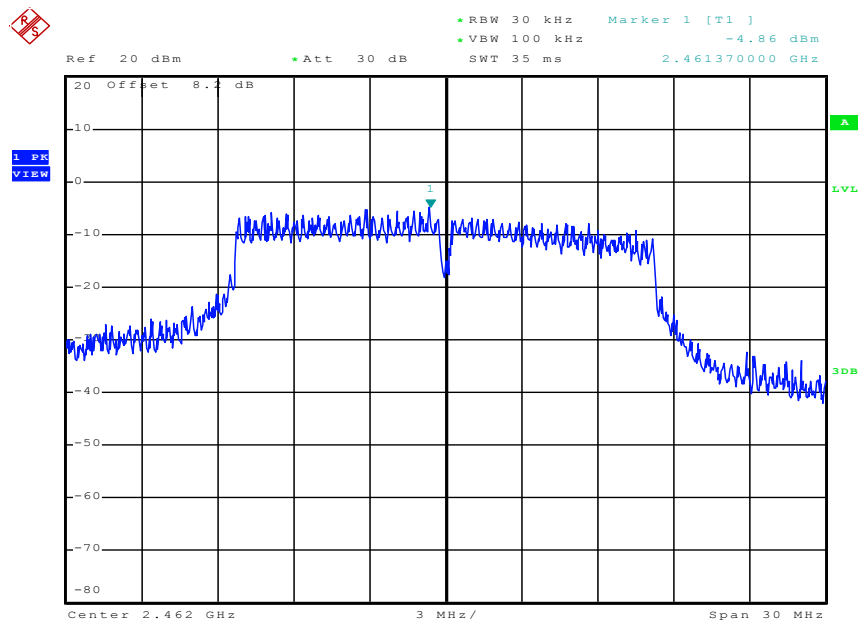
Date: 22.SEP.2019 14:16:35

11G/MCH



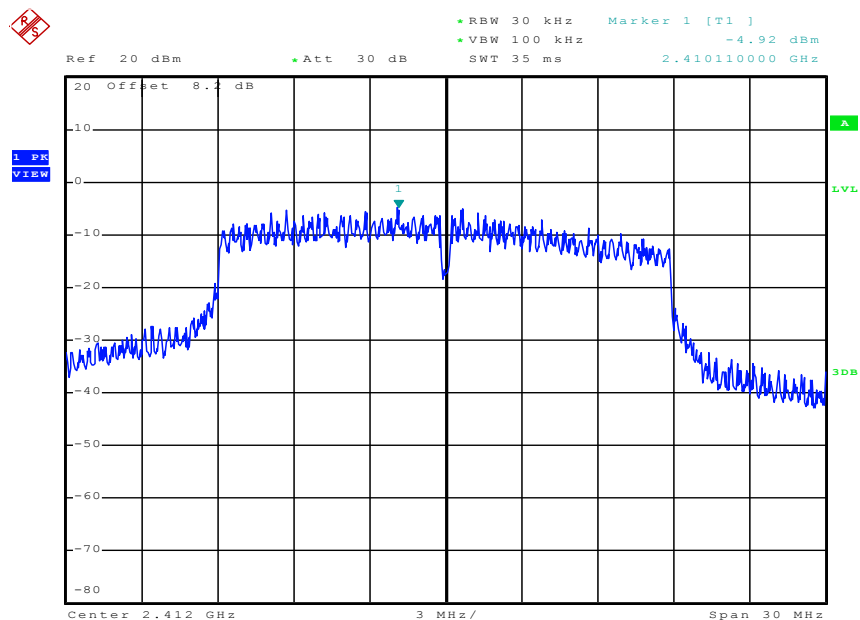
Date: 22.SEP.2019 14:23:26

11G/HCH



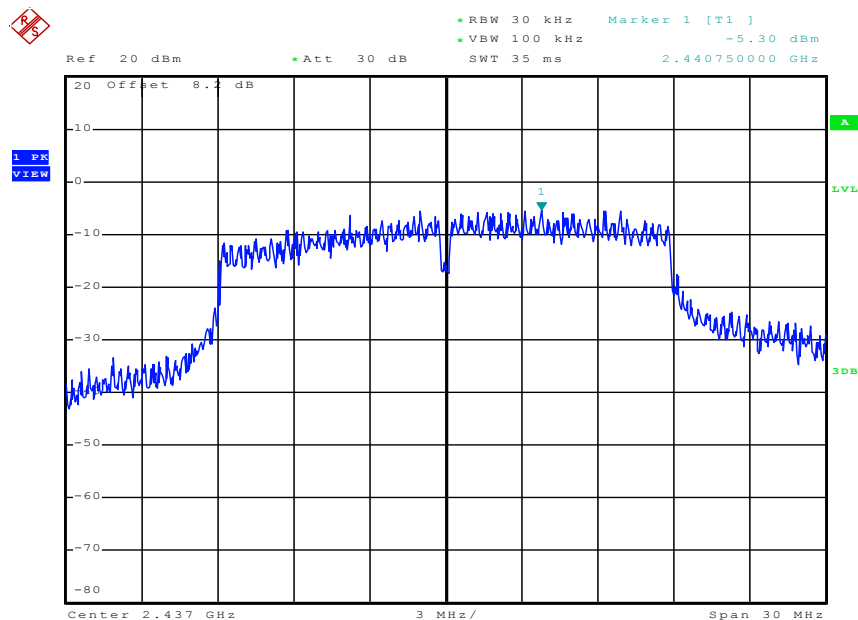
Date: 22.SEP.2019 14:25:14

11N20SISO/LCH



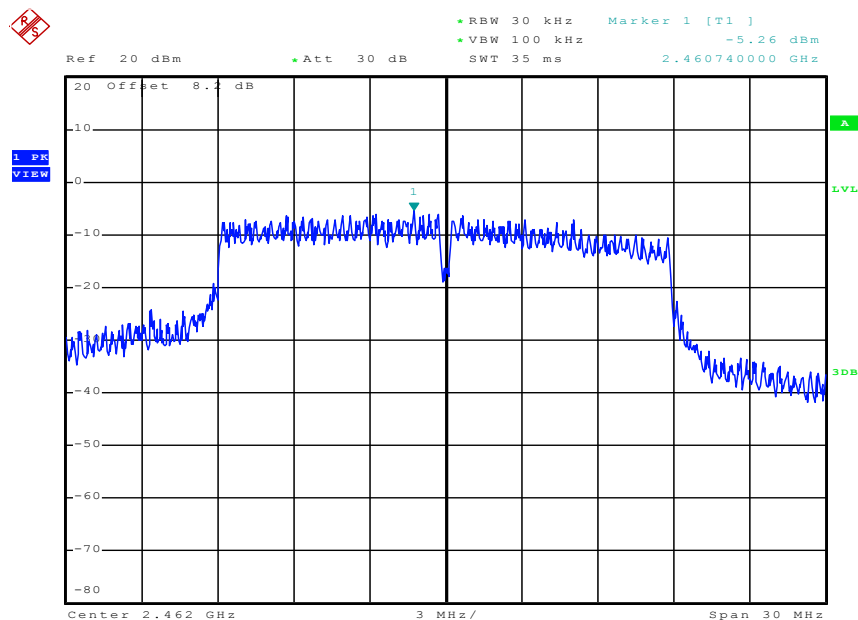
Date: 22.SEP.2019 14:27:52

11N20SISO/MCH



Date: 22.SEP.2019 14:31:42

11N20SISO/HCH



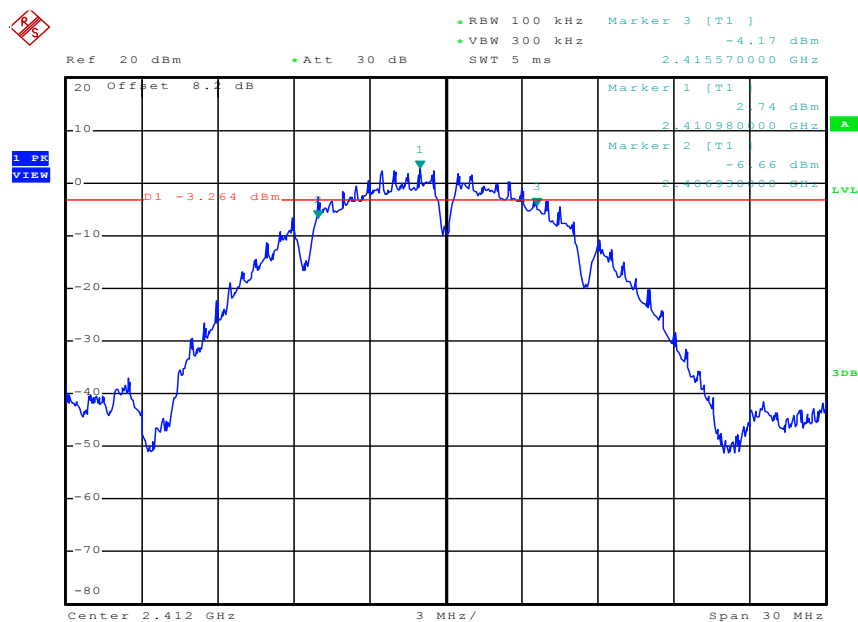
Date: 22.SEP.2019 14:33:26

B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.640	≥ 0.5	PASS
	MCH	8.130	≥ 0.5	PASS
	HCH	8.610	≥ 0.5	PASS
11G	LCH	15.990	≥ 0.5	PASS
	MCH	15.630	≥ 0.5	PASS
	HCH	16.470	≥ 0.5	PASS
11N20SISO	LCH	17.430	≥ 0.5	PASS
	MCH	16.800	≥ 0.5	PASS
	HCH	17.490	≥ 0.5	PASS

Test Graphs

11B/LCH



Date: 22 SEP 2019 14:08:45

1 PK VIEW

Ref 20 dBm Att 30 dB RBW 100 kHz VBW 300 kHz SWT 5 ms

Marker 3 [T1] 3.12 dBm 2.438020000 GHz

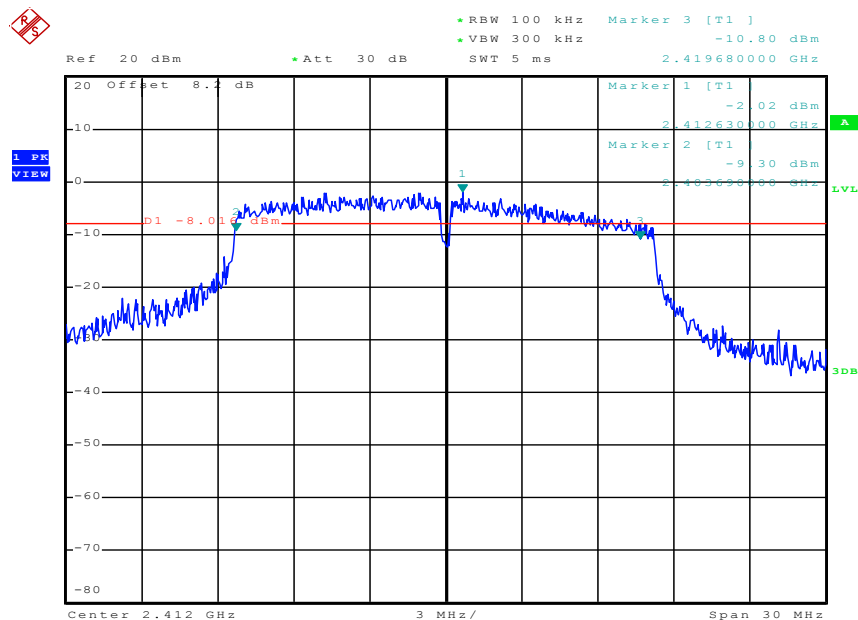
Marker 2 [T1] -3.68 dBm 2.433430000 GHz

Center 2.437 GHz 3 MHz/ Span 30 MHz

Date: 22.SEP.2019 14:11:27

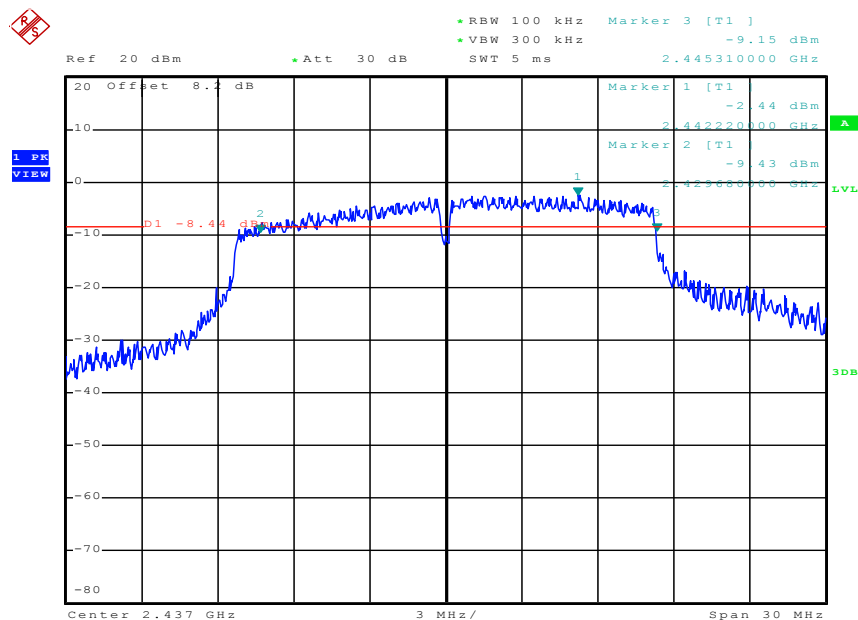
Date: 22 SEP 2019 14:13:11

11G/LCH



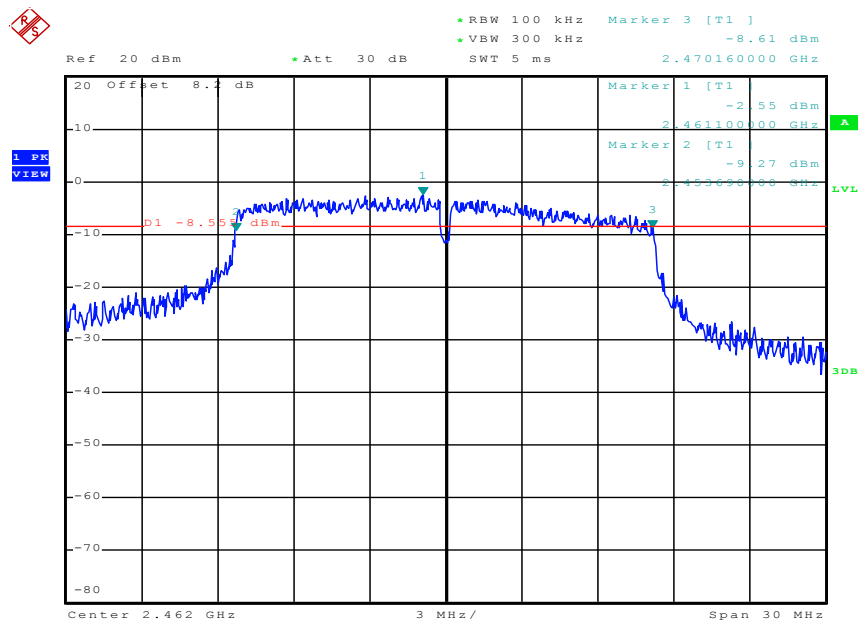
Date: 22.SEP.2019 14:15:48

11G/MCH



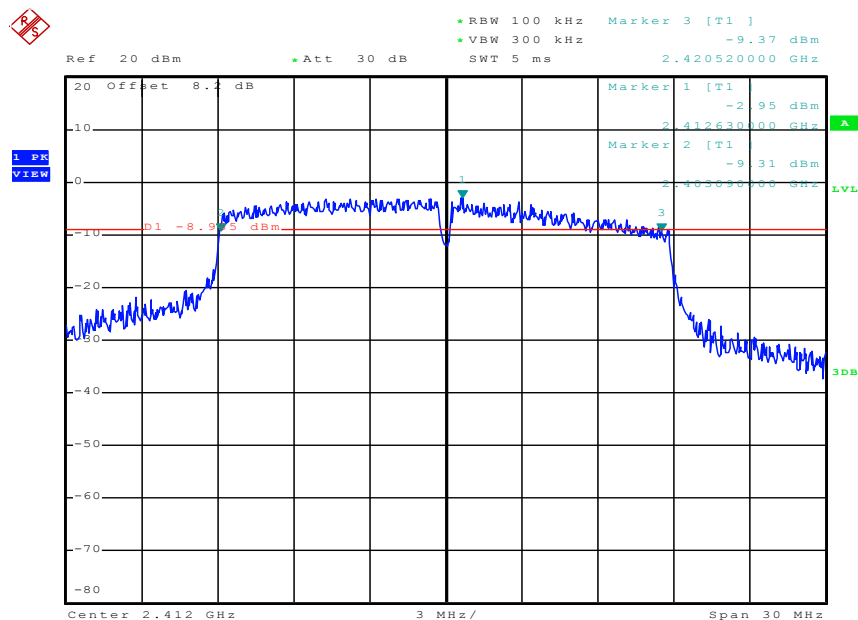
Date: 22.SEP.2019 14:22:39

11G/HCH



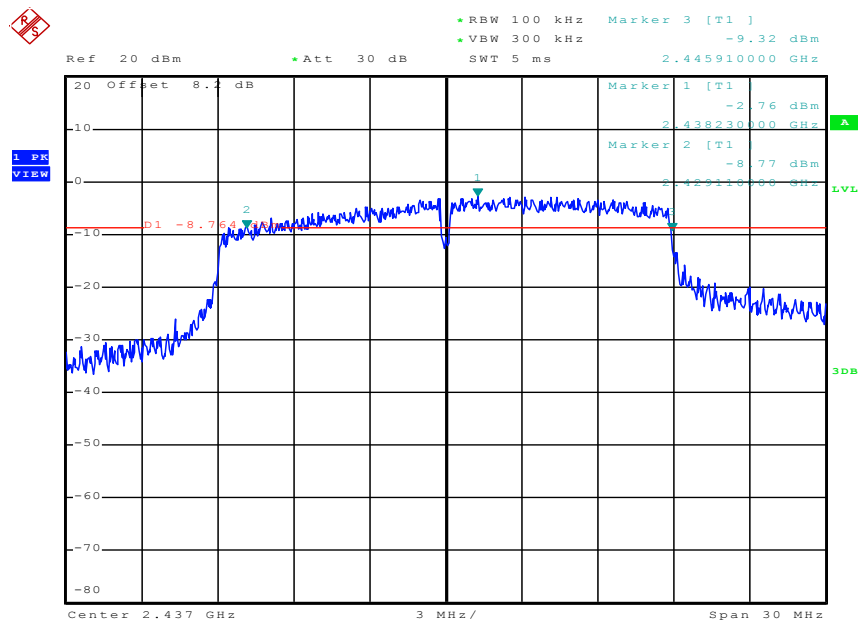
Date: 22.SEP.2019 14:24:27

11N20SISO/LCH



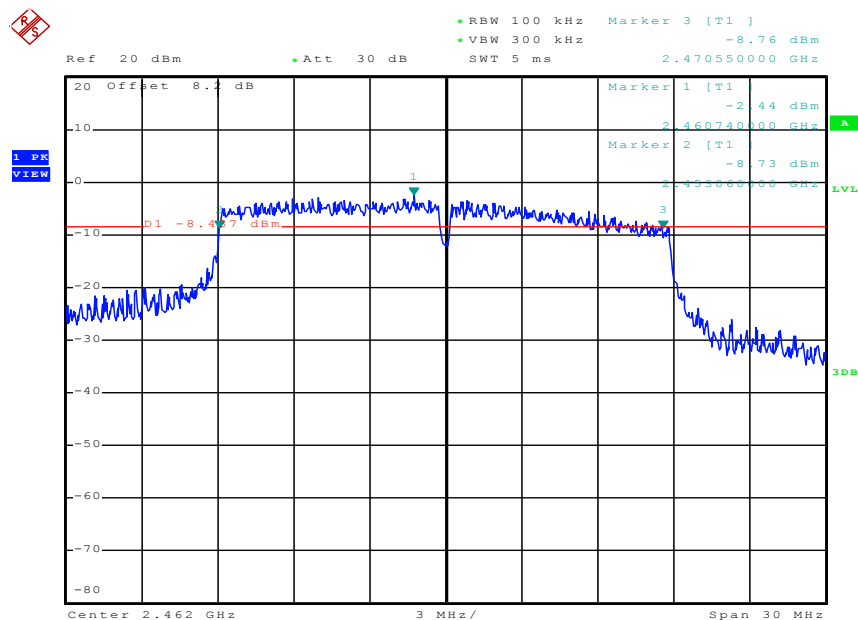
Date: 22.SEP.2019 14:27:05

11N20SISO/MCH



Date: 22.SEP.2019 14:30:55

11N20SISO/HCH



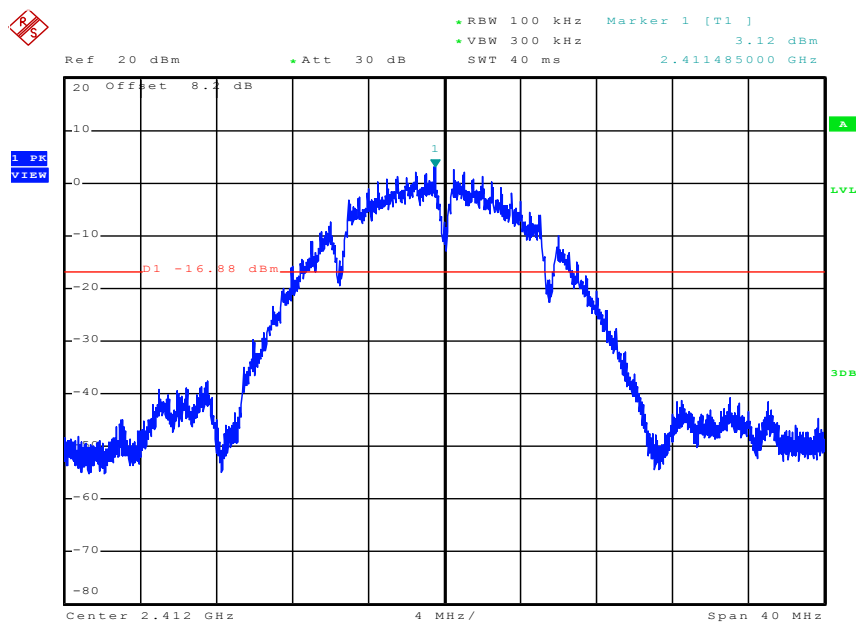
Date: 22.SEP.2019 14:32:39

B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.12	-32.030	-16.880	PASS
	MCH	3.13	-32.050	-16.870	PASS
	HCH	2.58	-31.730	-17.420	PASS
11G	LCH	-2.41	-31.970	-22.410	PASS
	MCH	-2.42	-31.970	-22.420	PASS
	HCH	-3.01	-31.960	-23.010	PASS
11N20 SISO	LCH	-2.88	-31.800	-22.880	PASS
	MCH	-2.64	-32.320	-22.640	PASS
	HCH	-3.35	-32.430	-23.350	PASS

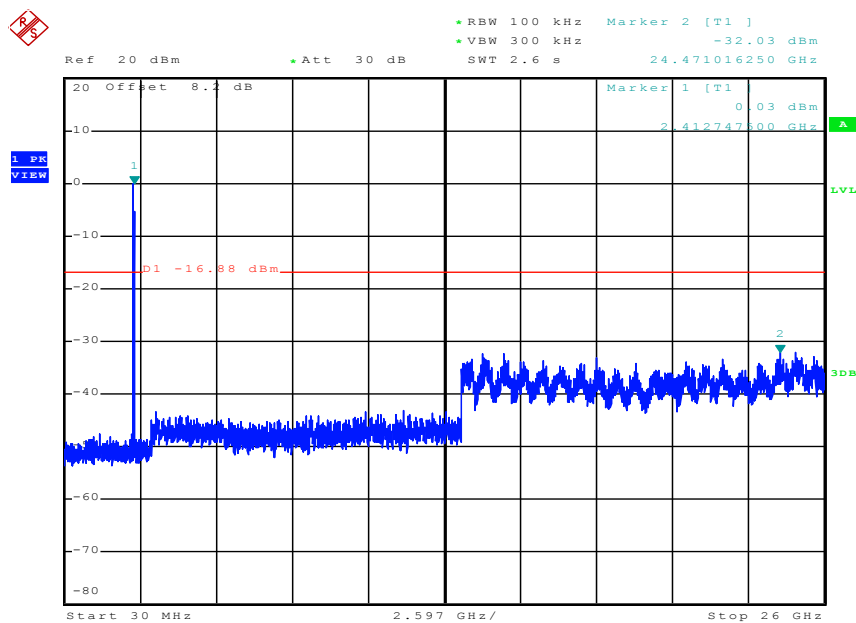
11B_LCH_Graphs

Pref/11B/LCH



Date: 22 SEP 2019 14:09:58

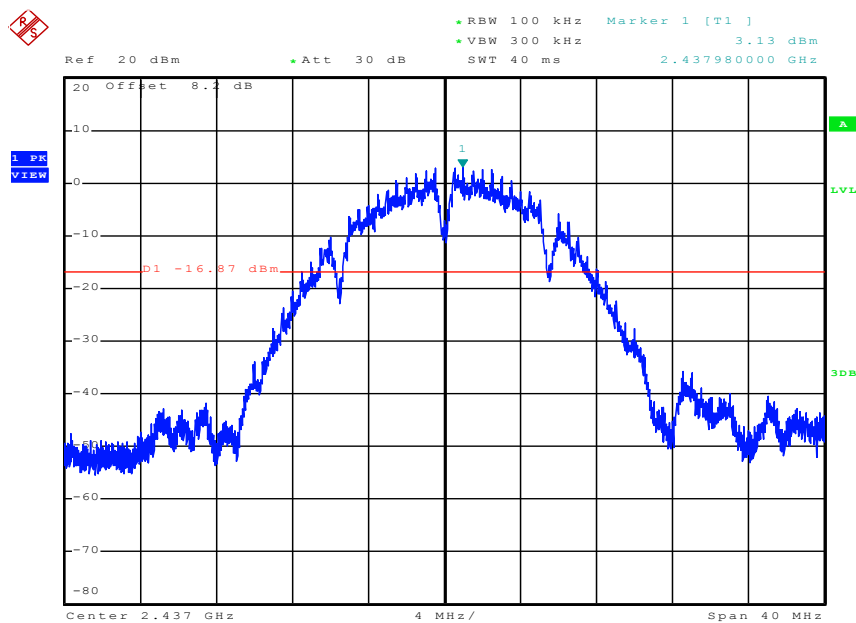
Puw/11B/LCH



Date: 22.SEP.2019 14:10:13

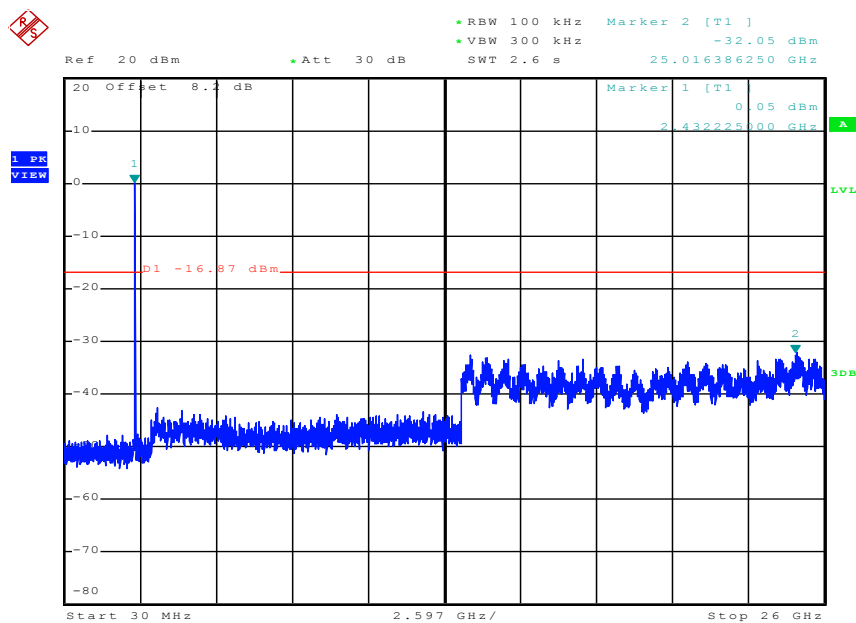
11B_MCH_Graphs

Pref/11B/MCH



Date: 22 SEP 2019 14:12:27

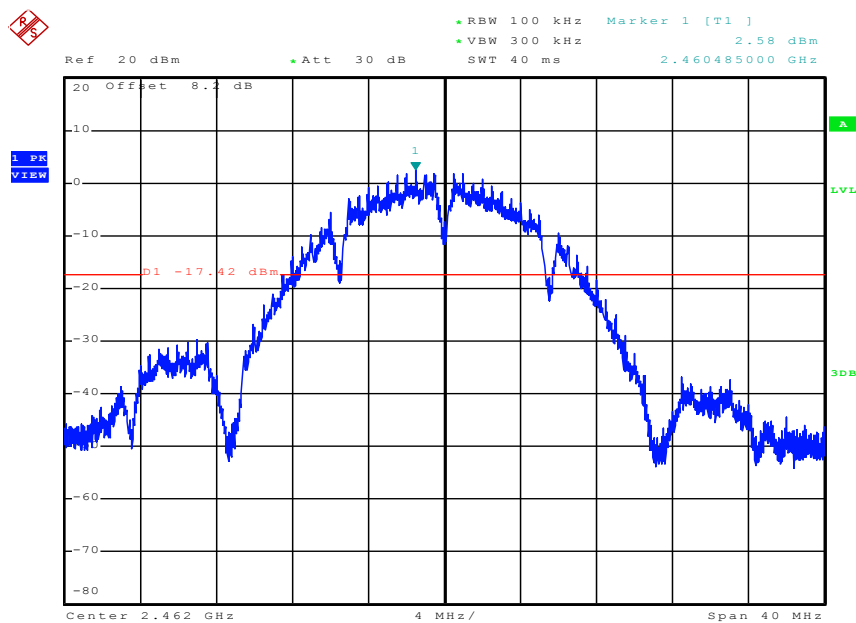
Puw/11B/MCH



Date: 22.SEP.2019 14:12:41

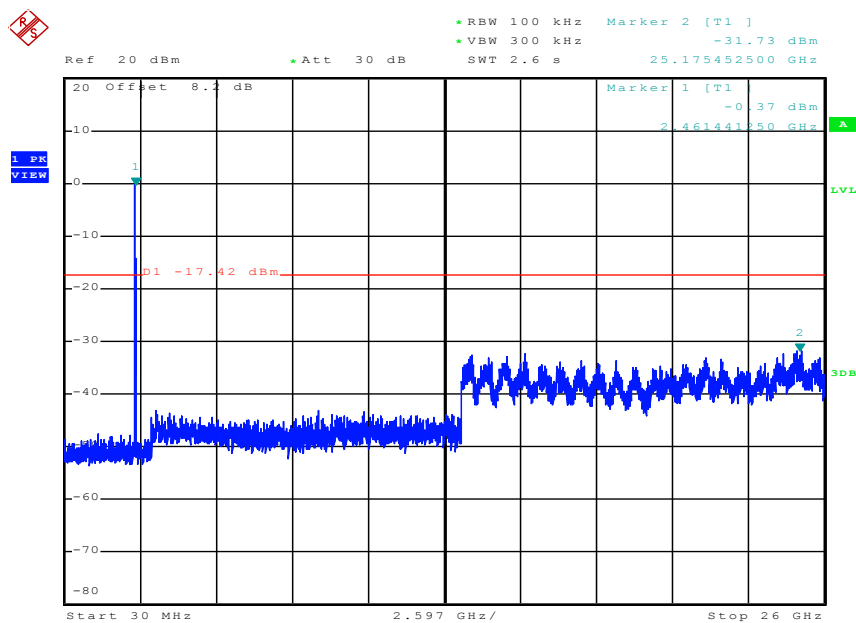
11B_HCH_Graphs

Pref/11B/HCH



Date: 22 SEP 2019 14:14:25

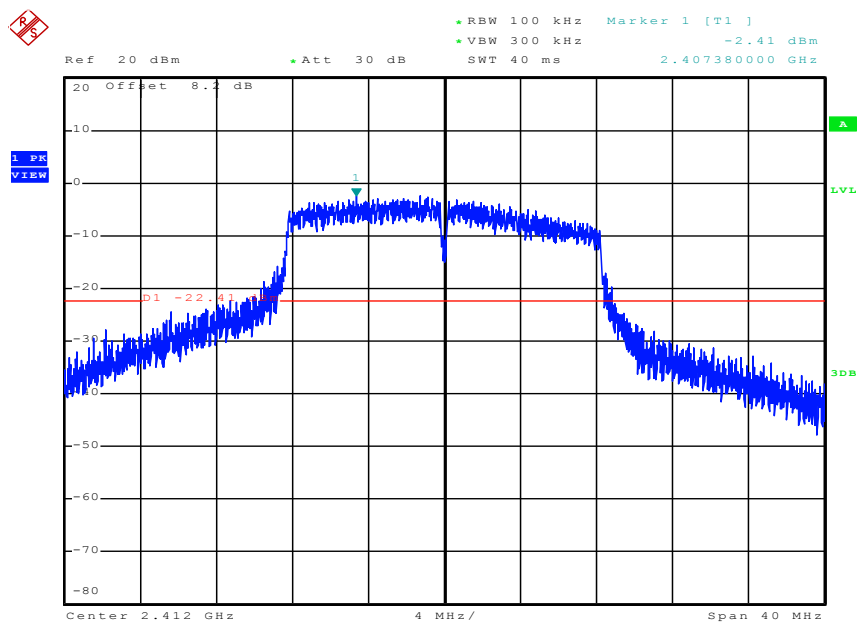
Puw/11B/HCH



Date: 22 SEP 2019 14:14:40

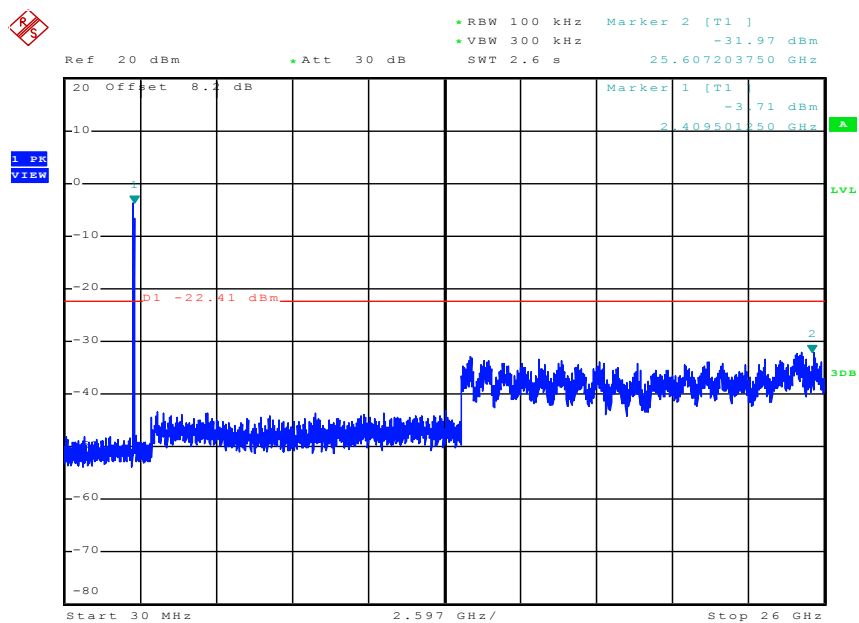
11G_LCH_Graphs

Pref/11G/LCH



Date: 22 SEP 2019 14:17:01

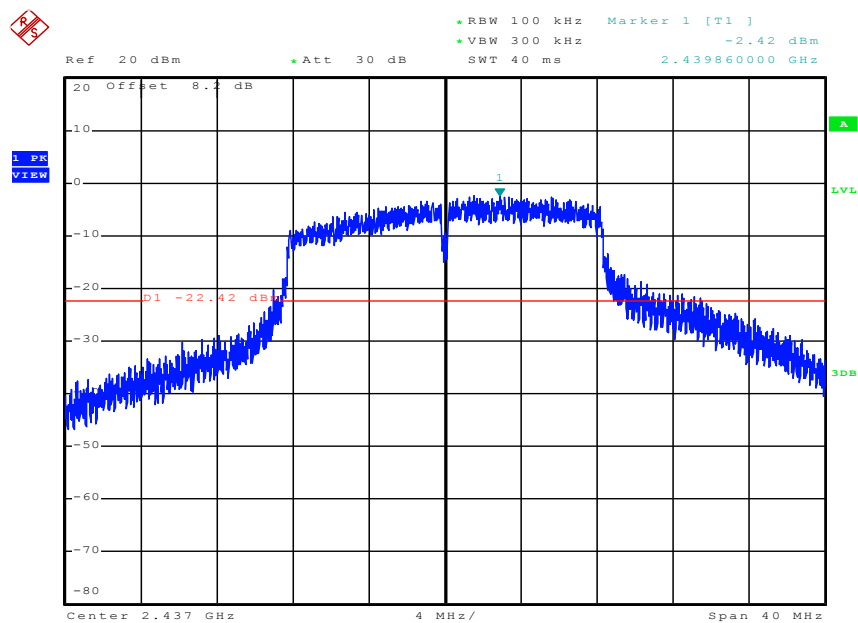
Puw/11G/LCH



Date: 22.SEP.2019 14:17:16

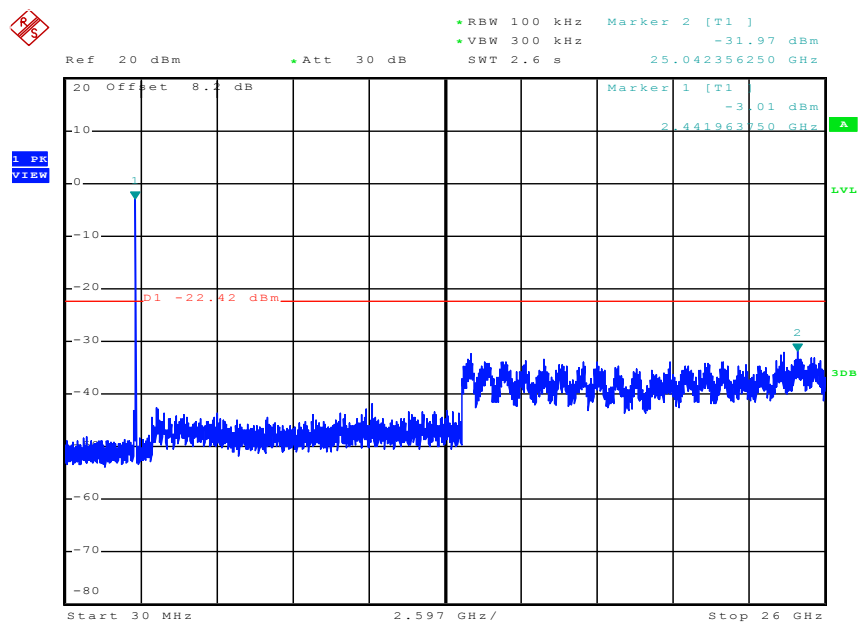
11G_MCH_Graphs

Pref/11G/MCH



Date: 22 SEP 2019 14:23:39

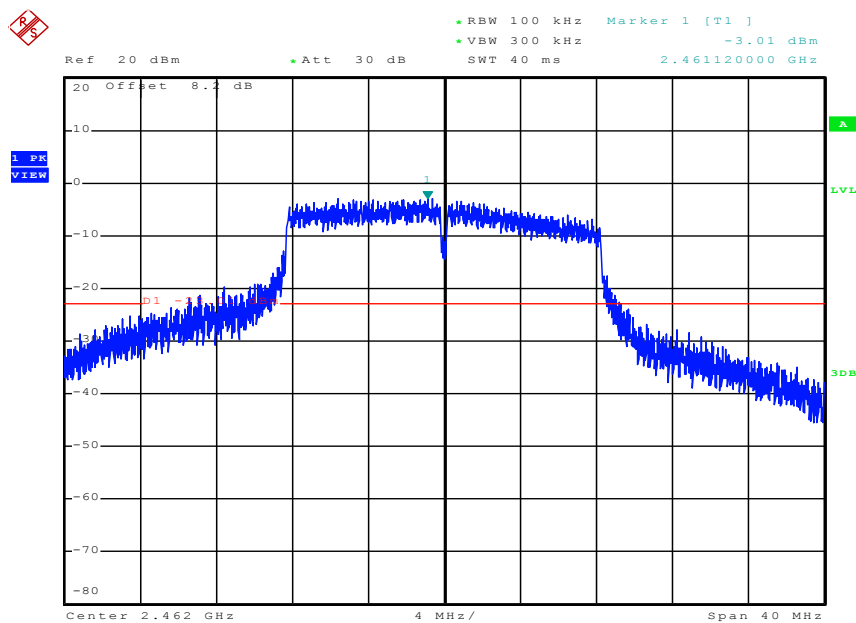
Puw/11G/MCH



Date: 22.SEP.2019 14:23:53

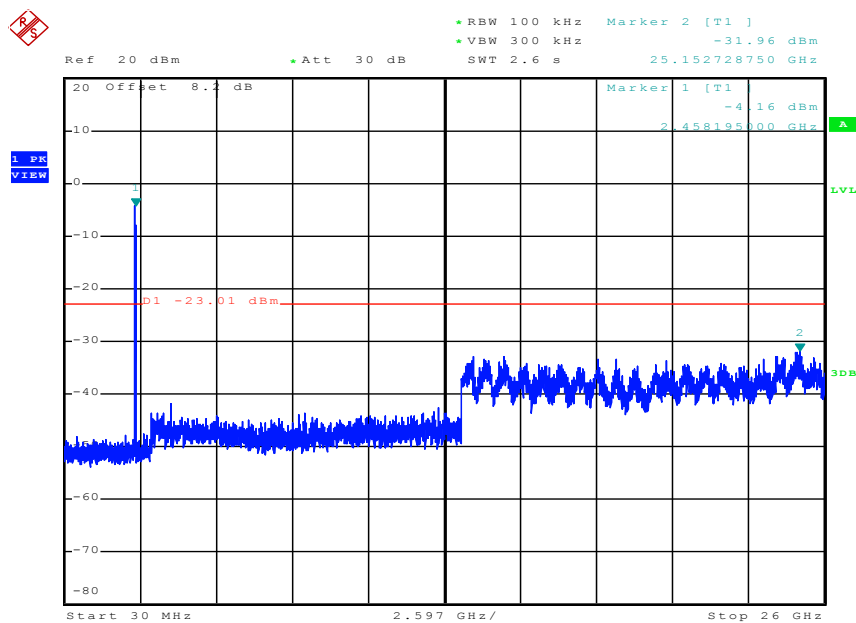
11G_HCH_Graphs

Pref/11G/HCH



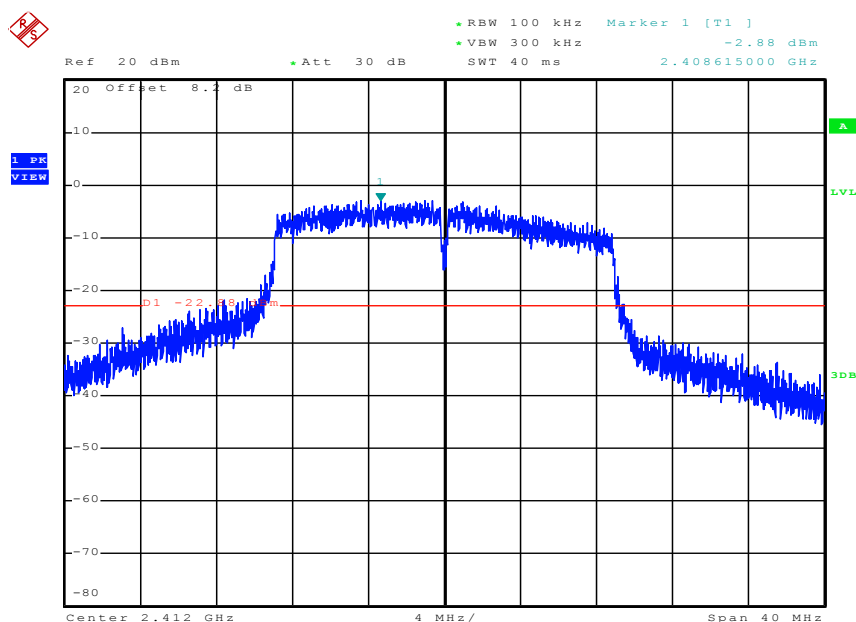
Date: 22 SEP 2019 14:25:40

Puw/11G/HCH

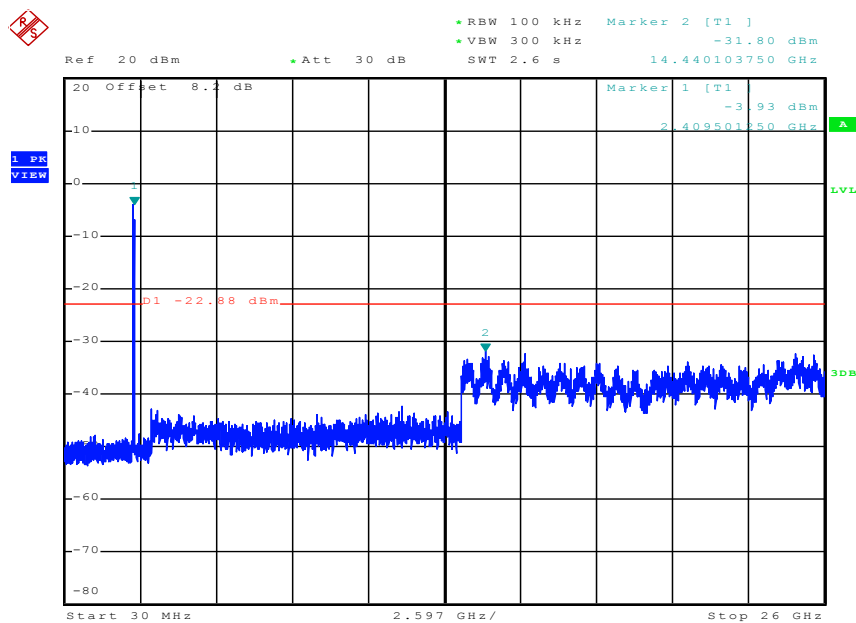


Date: 22 SEP 2019 14:25:55

11N20SISO_LCH_Graphs

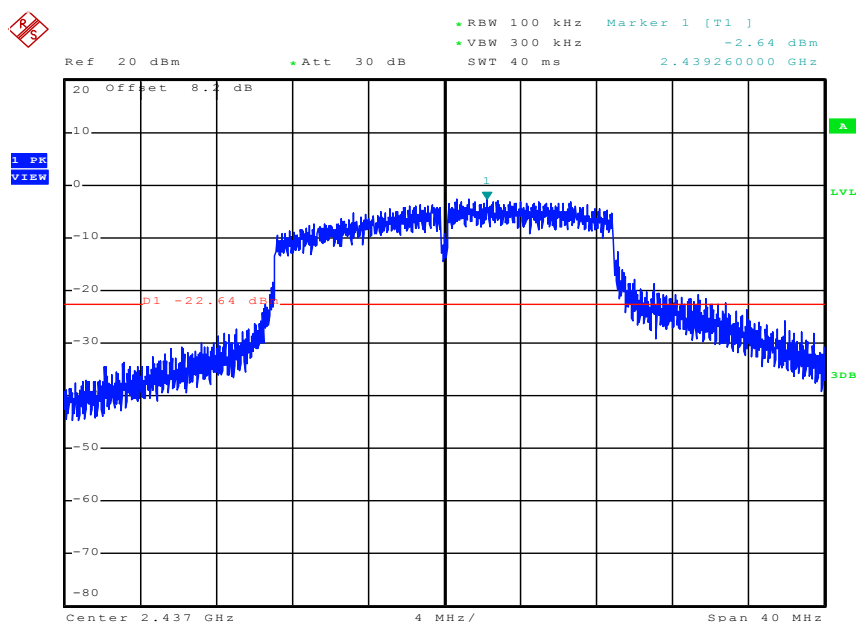
Pref/11N20SIS
O/LCH

Date: 22 SEP 2019 14:28:18

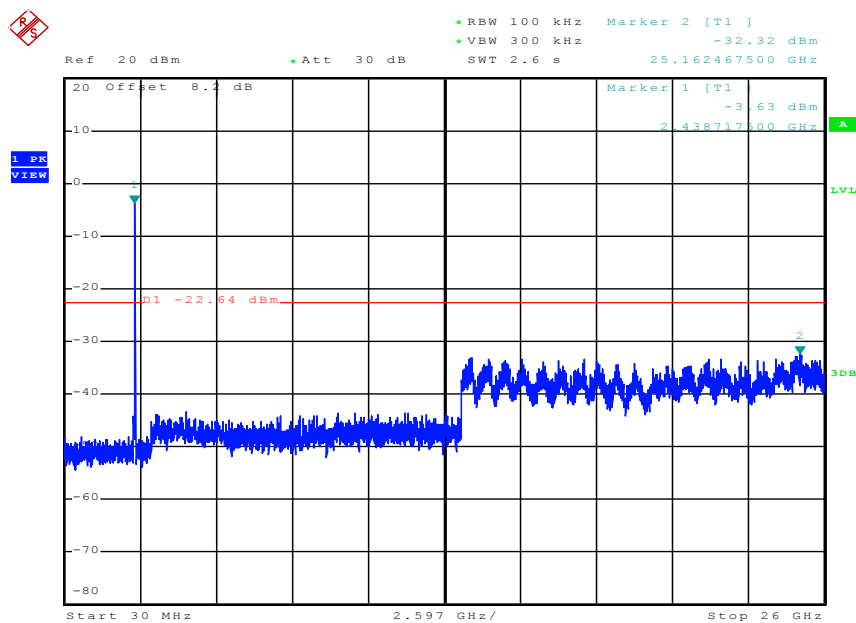
Puw/11N20
SISO/LCH

Date: 22 SEP 2019 14:28:33

11N20SISO_MCH_Graphs

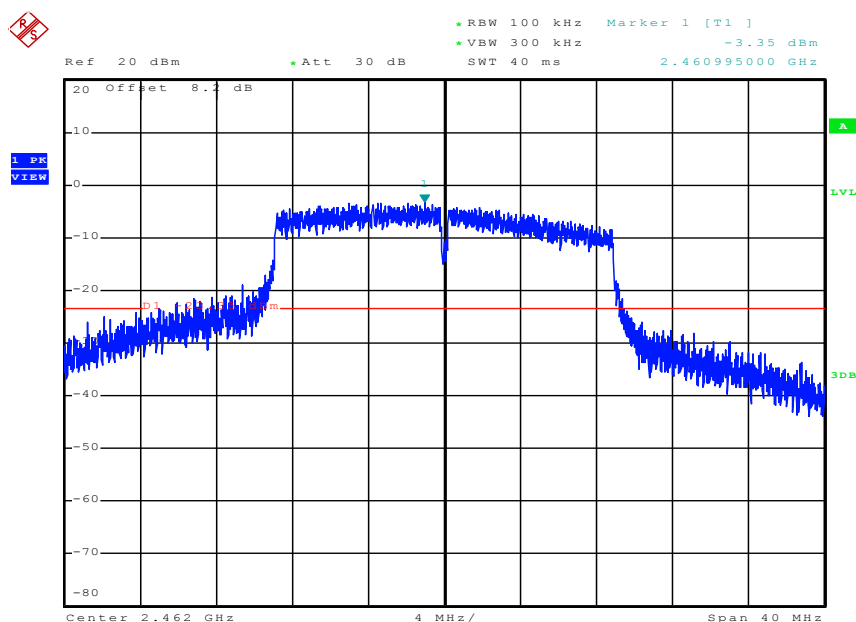
Pref/11N20
SISO/MCH

Date: 22 SEP 2019 14:31:55

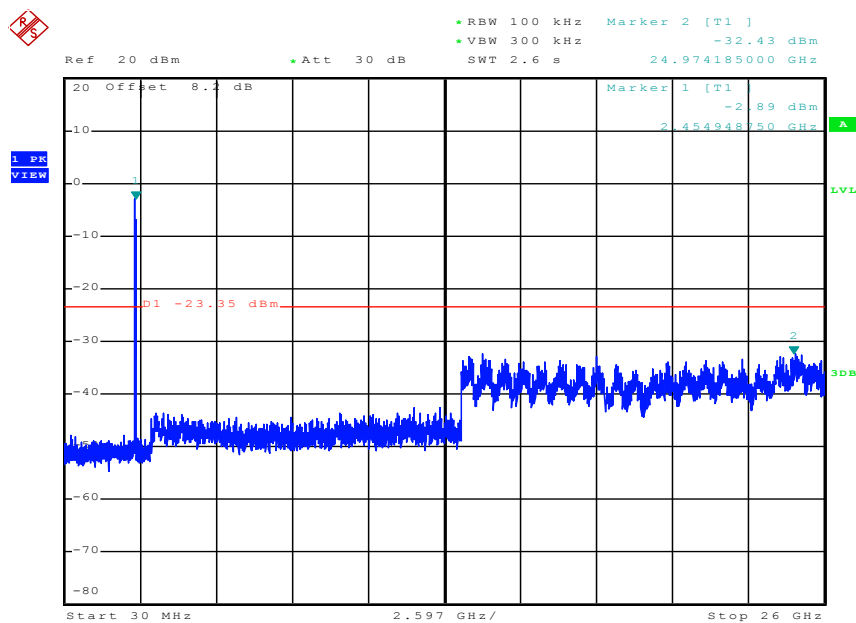
Puw/11N20
SISO/MCH

Date: 22 SEP 2019 14:32:09

11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH

Date: 22 SEP 2019 14:33:53

Puw/11N20
SISO/HCH

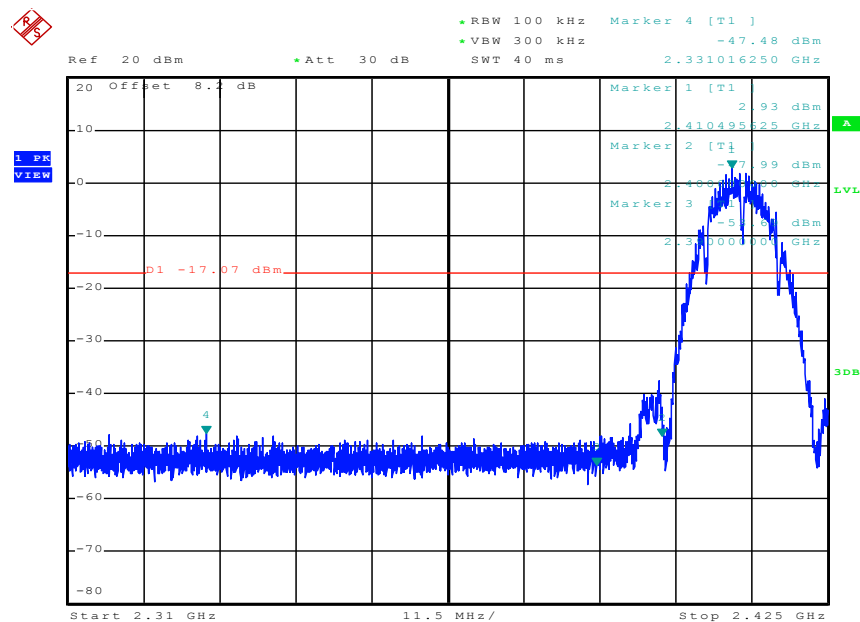
Date: 22 SEP 2019 14:34:07

B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.930	-47.477	-17.07	PASS
	HCH	2.390	-45.889	-17.61	PASS
11G	LCH	-2.500	-39.020	-22.5	PASS
	HCH	-2.630	-41.358	-22.63	PASS
11N20SISO	LCH	-3.000	-37.770	-23	PASS
	HCH	-3.400	-39.663	-23.4	PASS

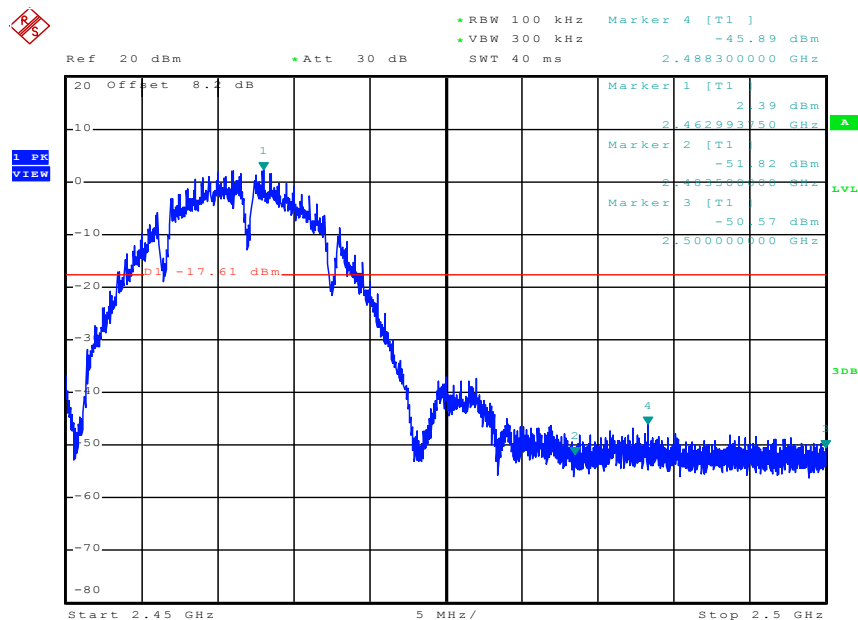
Test Graphs

11B/LCH



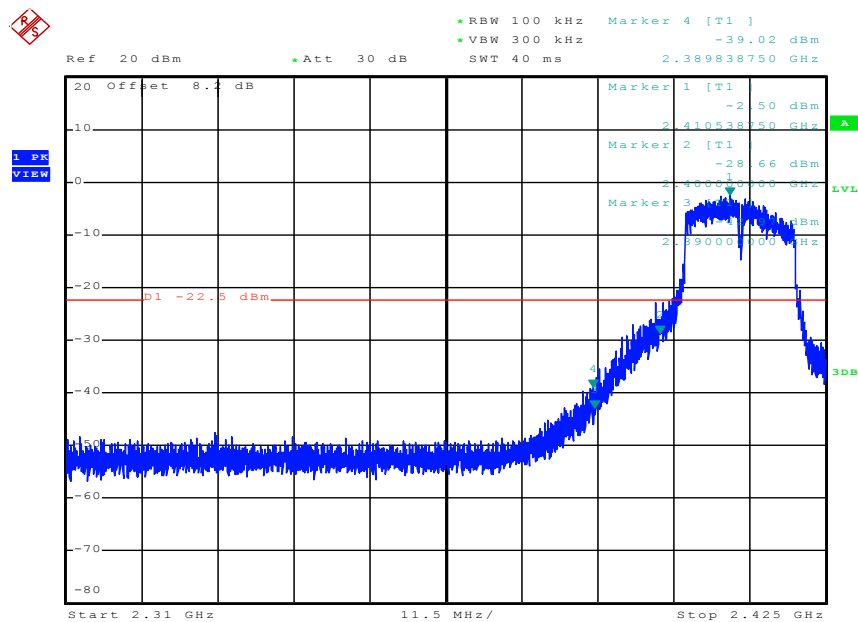
Date: 22.SEP.2019 14:09:45

11B/HCH



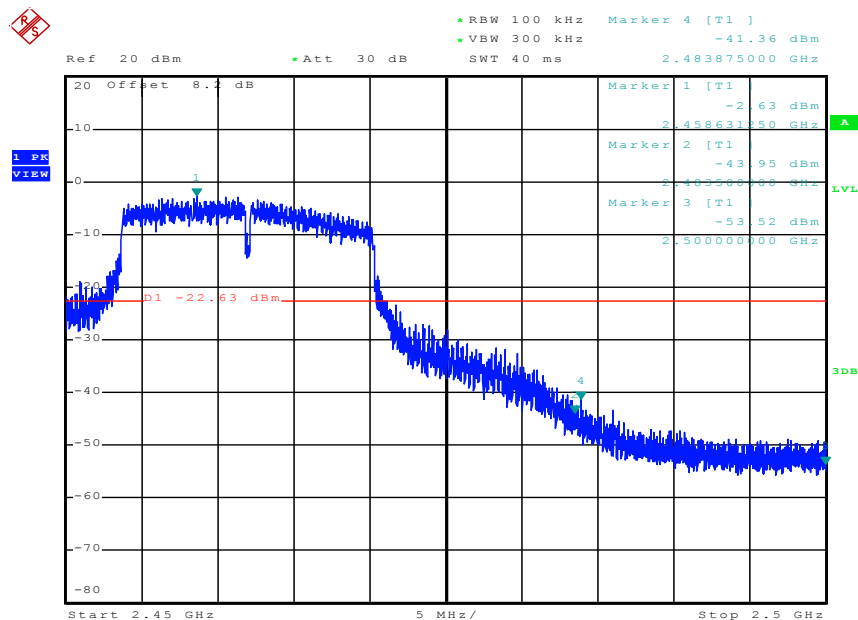
Date: 22.SEP.2019 14:14:12

11G/LCH



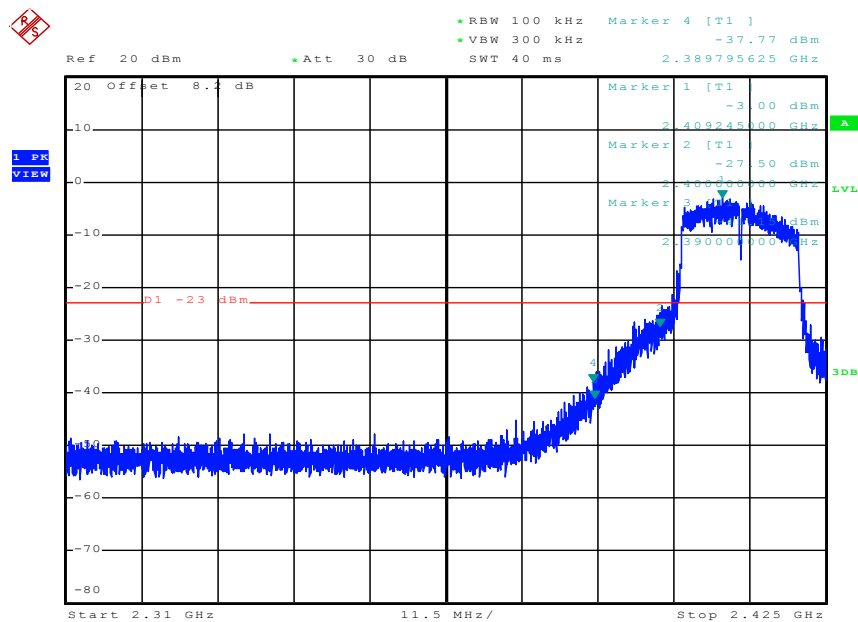
Date: 22.SEP.2019 14:16:48

11G/HCH



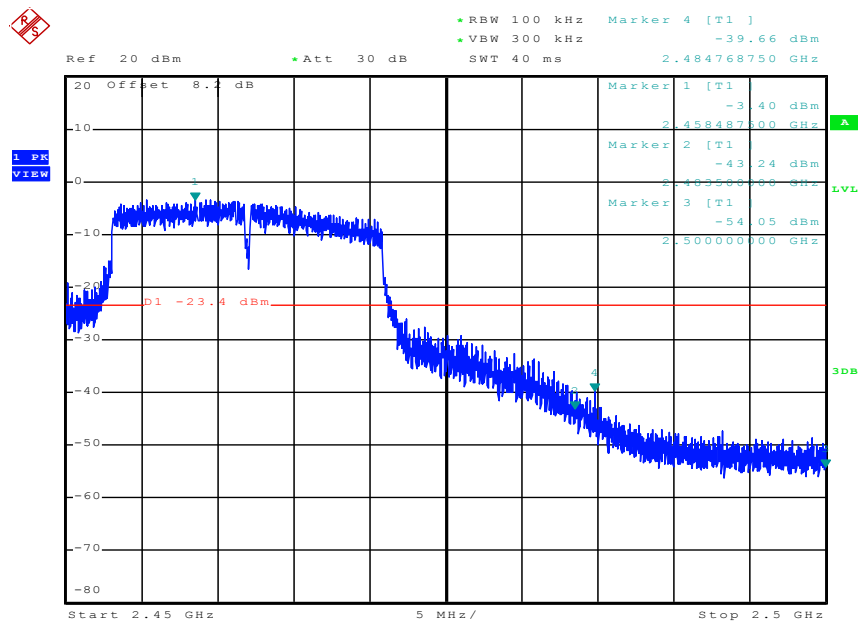
Date: 22.SEP.2019 14:25:27

11N20SISO/LCH



Date: 22.SEP.2019 14:28:05

11N20SISO/HCH

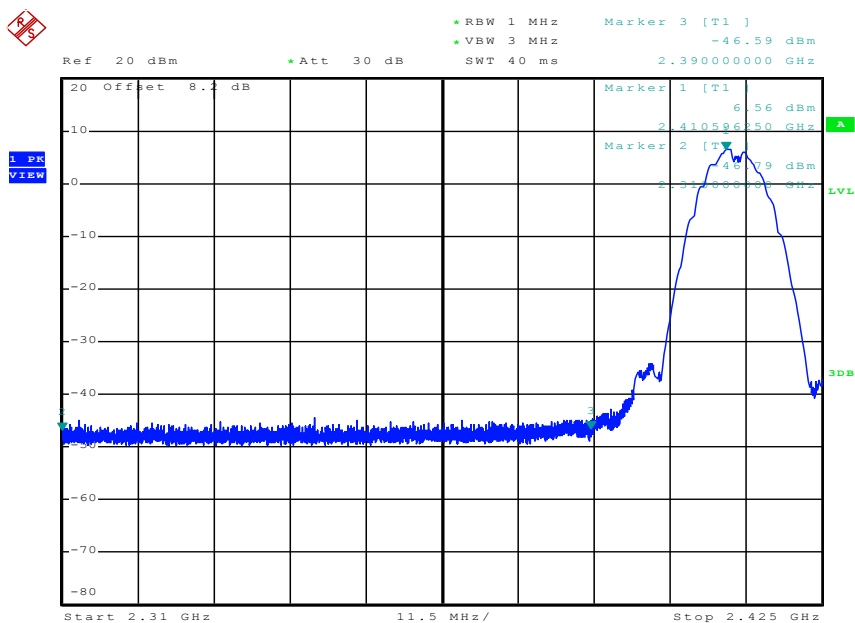


Date: 22.SEP.2019 14:33:40

B.7 Restrict-band band-edge measurements

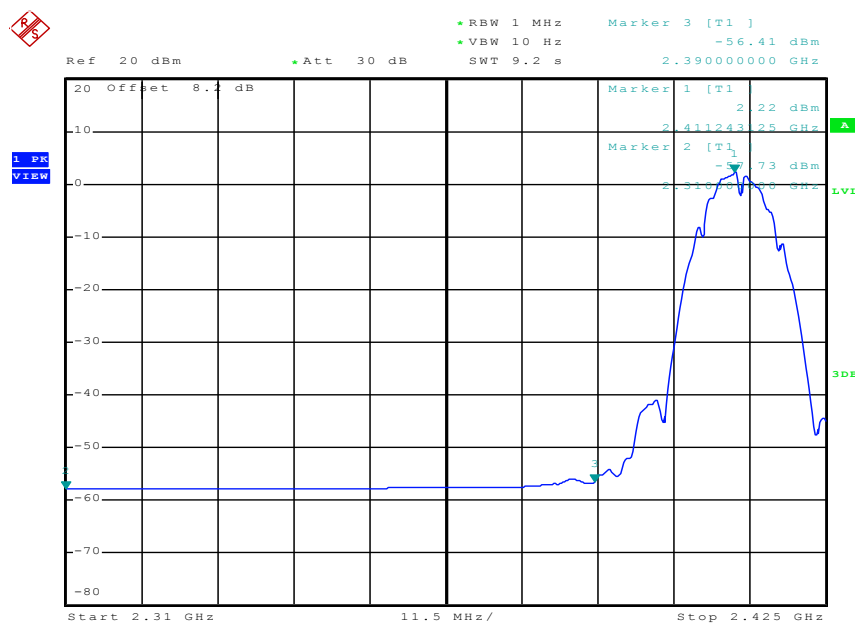
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-46.79	2.0	0	50.47	PEAK	74	PASS
	2412	Ant1	2310.0	-57.73	2.0	0	39.53	AV	54	PASS
	2412	Ant1	2390.0	-46.59	2.0	0	50.67	PEAK	74	PASS
	2412	Ant1	2390.0	-56.41	2.0	0	40.85	AV	54	PASS
	2462	Ant1	2483.5	-46.71	2.0	0	50.55	PEAK	74	PASS
	2462	Ant1	2483.5	-55.66	2.0	0	41.60	AV	54	PASS
	2462	Ant1	2500.0	-47.79	2.0	0	49.47	PEAK	74	PASS
	2462	Ant1	2500.0	-57.92	2.0	0	39.34	AV	54	PASS
11G	2412	Ant1	2310.0	-48.42	2.0	0	48.84	PEAK	74	PASS
	2412	Ant1	2310.0	-57.75	2.0	0	39.51	AV	54	PASS
	2412	Ant1	2390.0	-28.83	2.0	0	68.43	PEAK	74	PASS
	2412	Ant1	2390.0	-47.12	2.0	0	50.14	AV	54	PASS
	2462	Ant1	2483.5	-31.82	2.0	0	65.44	PEAK	74	PASS
	2462	Ant1	2483.5	-45.11	2.0	0	52.15	AV	54	PASS
	2462	Ant1	2500.0	-48.64	2.0	0	48.62	PEAK	74	PASS
	2462	Ant1	2500.0	-57.95	2.0	0	39.31	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-48.30	2.0	0	48.96	PEAK	74	PASS
	2412	Ant1	2310.0	-57.73	2.0	0	39.53	AV	54	PASS
	2412	Ant1	2390.0	-32.30	2.0	0	64.96	PEAK	74	PASS
	2412	Ant1	2390.0	-45.81	2.0	0	51.45	AV	54	PASS
	2462	Ant1	2483.5	-30.79	2.0	0	66.47	PEAK	74	PASS
	2462	Ant1	2483.5	-43.32	2.0	0	53.94	AV	54	PASS
	2462	Ant1	2500.0	-47.54	2.0	0	49.72	PEAK	74	PASS
	2462	Ant1	2500.0	-57.93	2.0	0	39.33	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



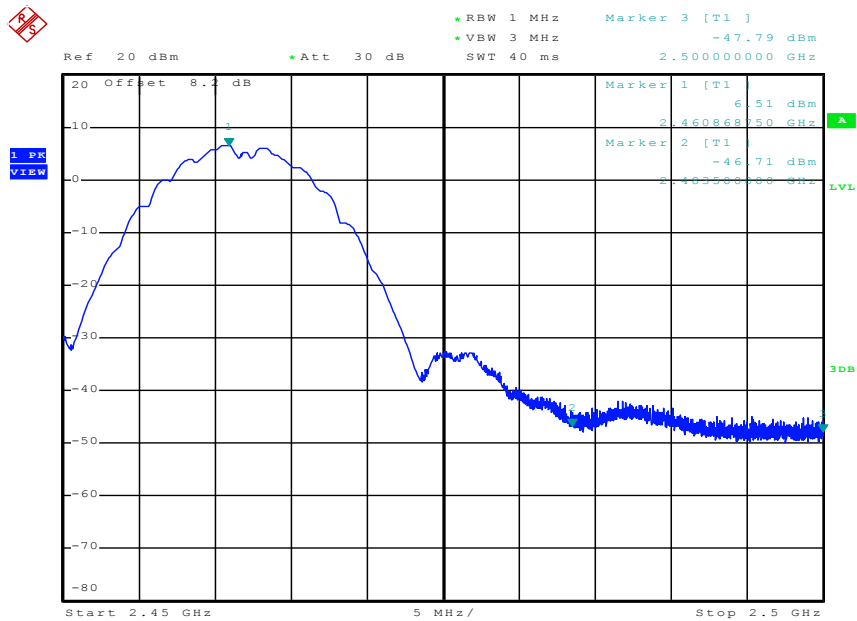
Date: 22.SEP.2019 14:19:17

Restrict-band band-edge measurements_11B_2412_Ant1_AV



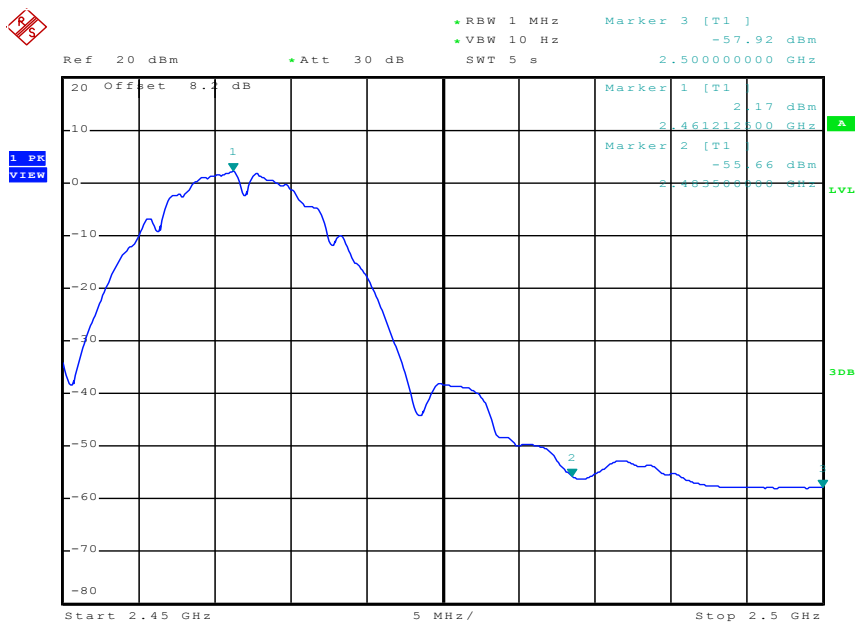
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Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



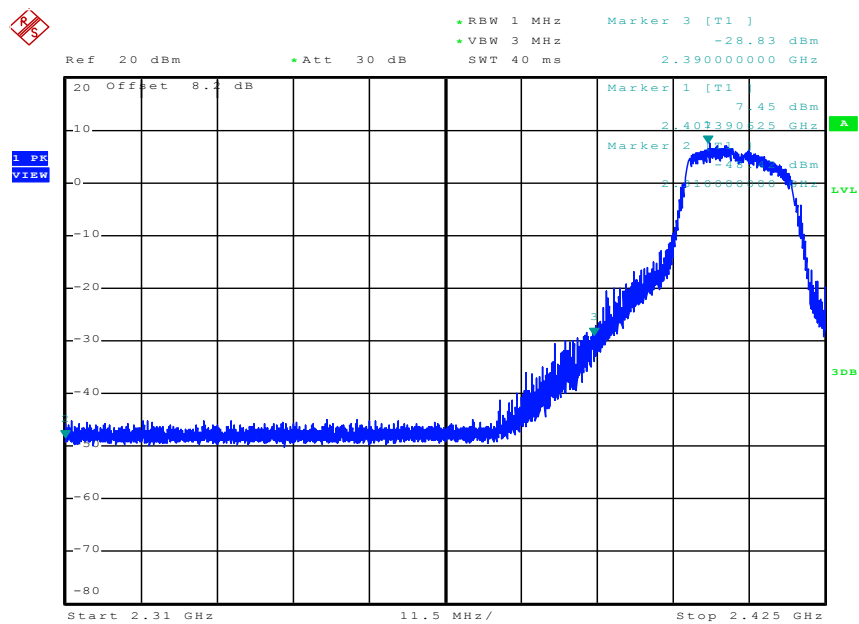
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Restrict-band band-edge measurements_11B_2462_Ant1_AV



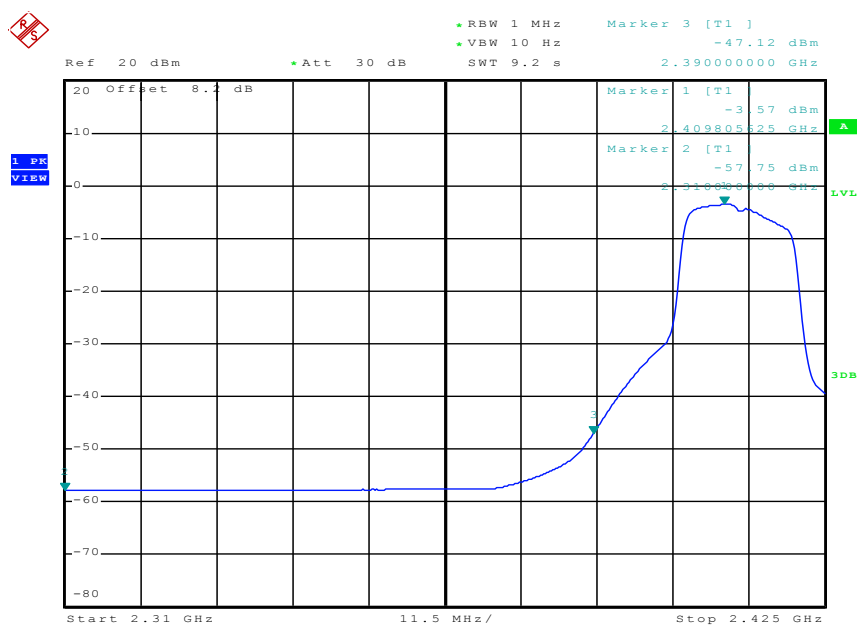
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Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



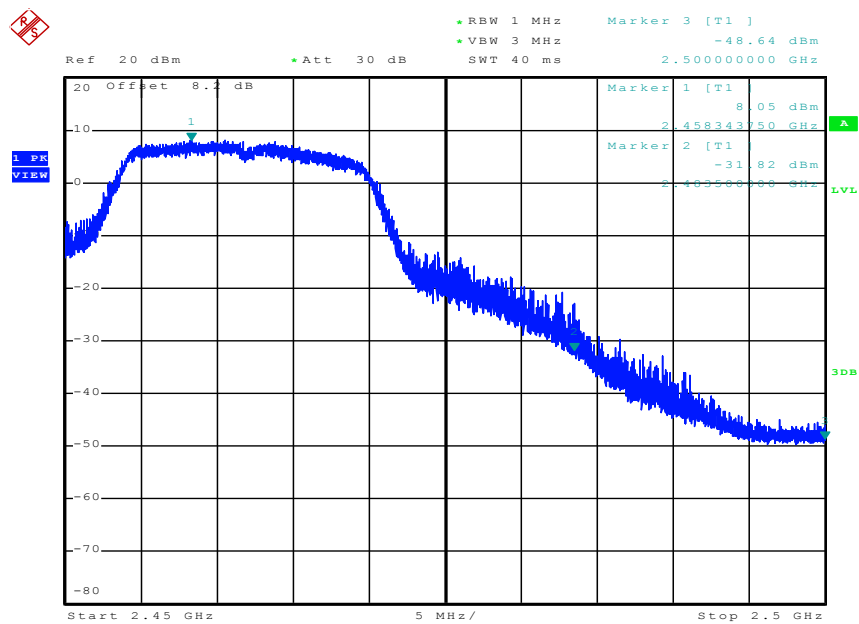
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Restrict-band band-edge measurements_11G_2412_Ant1_AV



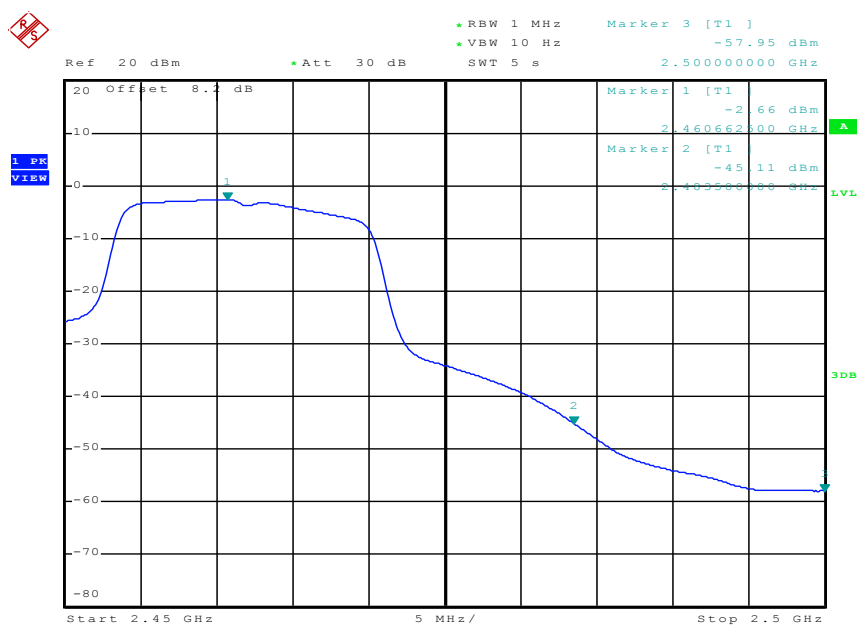
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Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



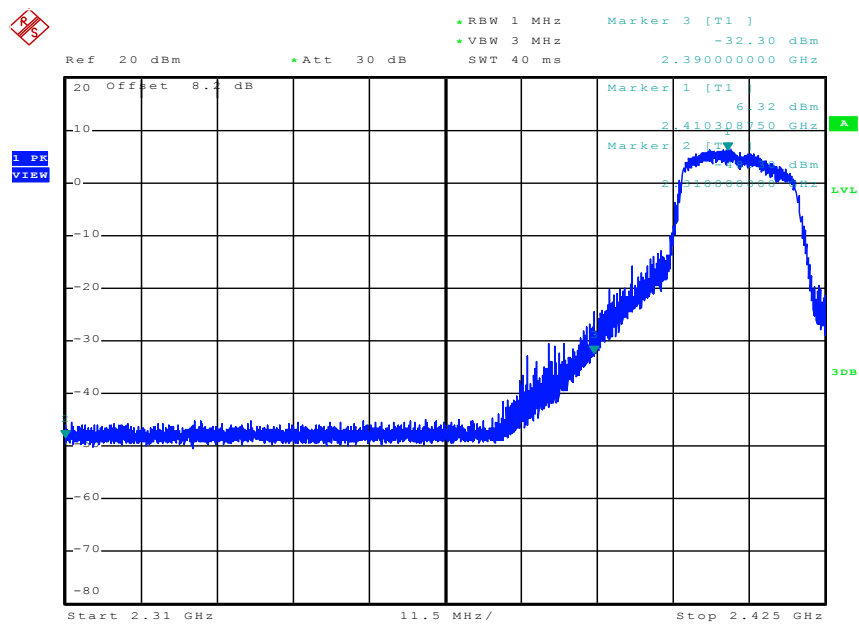
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Restrict-band band-edge measurements_11G_2462_Ant1_AV



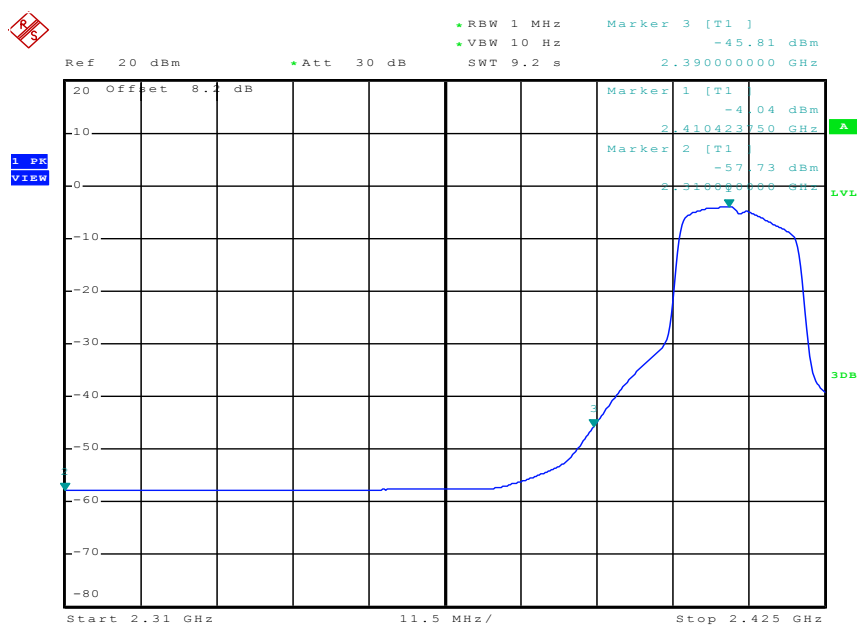
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Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



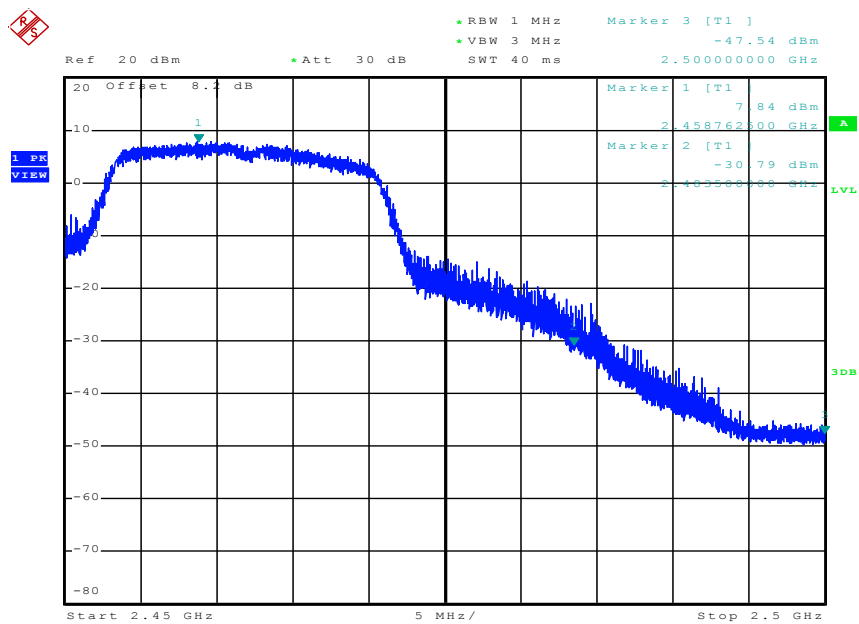
Date: 22.SEP.2019 14:29:50

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



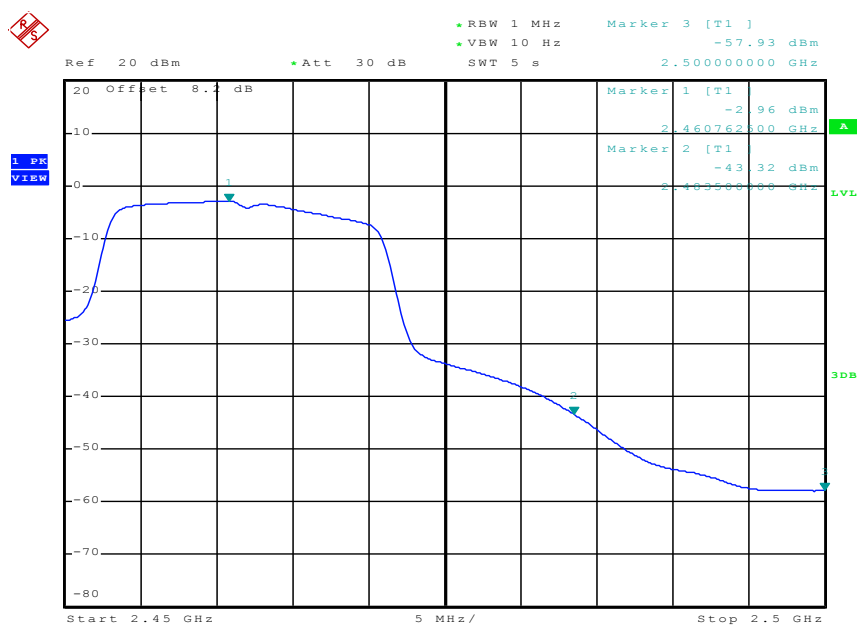
Date: 22.SEP.2019 14:30:17

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Date: 22.SEP.2019 14:34:26

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



Date: 22.SEP.2019 14:34:41