

## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Rugged Tablet

Test Model: LT800

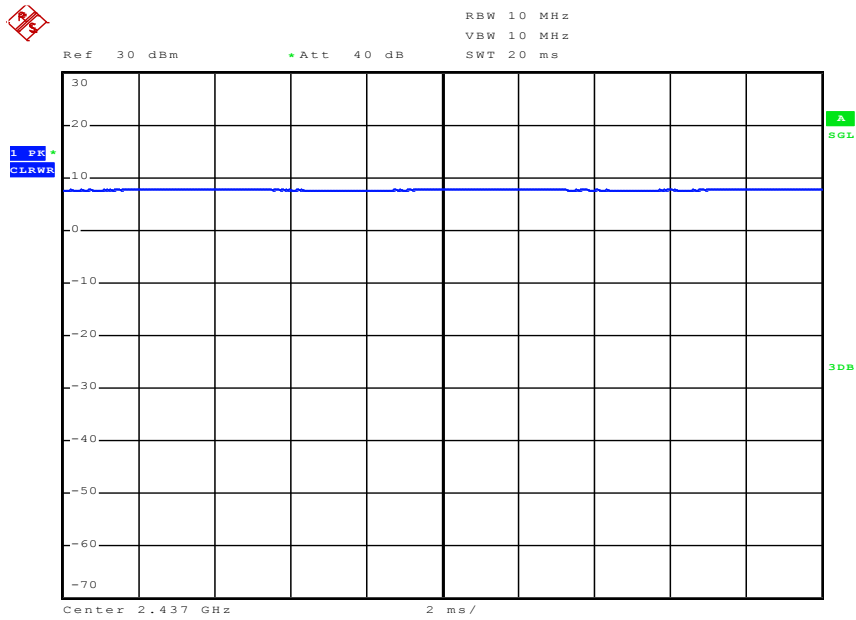
#### Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

#### C.1 Duty Cycle

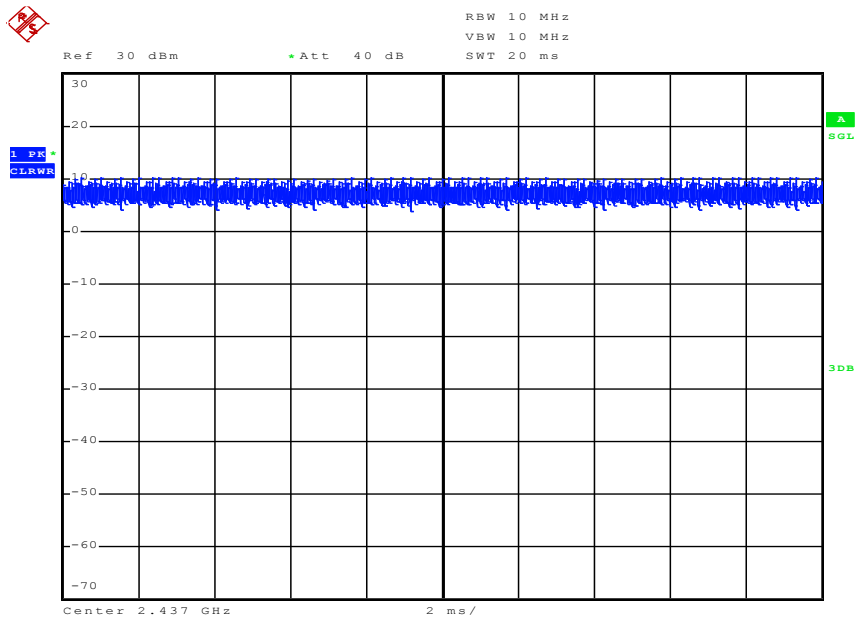
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

### Duty Cycle\_11B\_2437\_Ant1



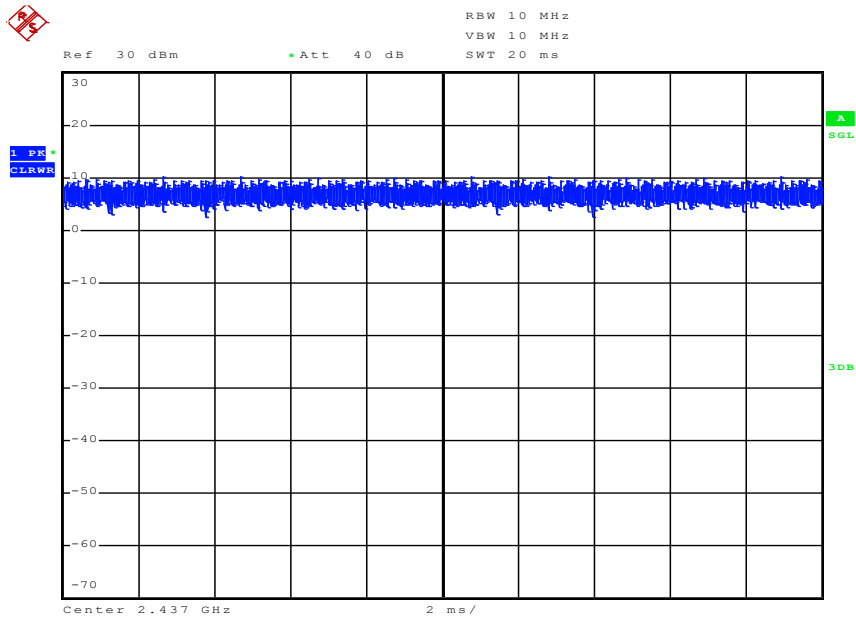
Date: 21.AUG.2019 18:47:48

### Duty Cycle\_11G\_2437\_Ant1



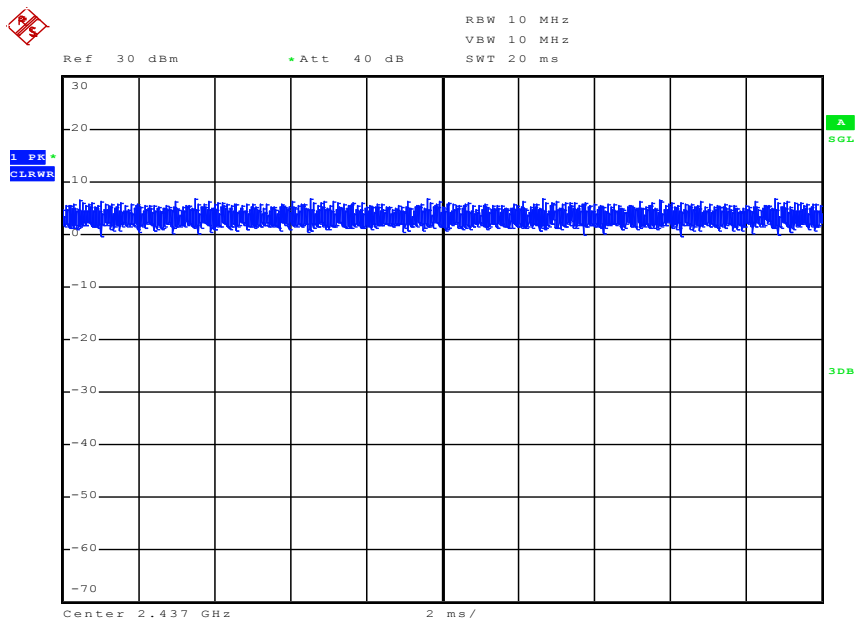
Date: 21.AUG.2019 18:48:14

Duty Cycle\_11N20SISO\_2437\_Ant1



Date: 21.AUG.2019 18:48:38

Duty Cycle\_11N40SISO\_2437\_Ant1



Date: 21.AUG.2019 18:49:03

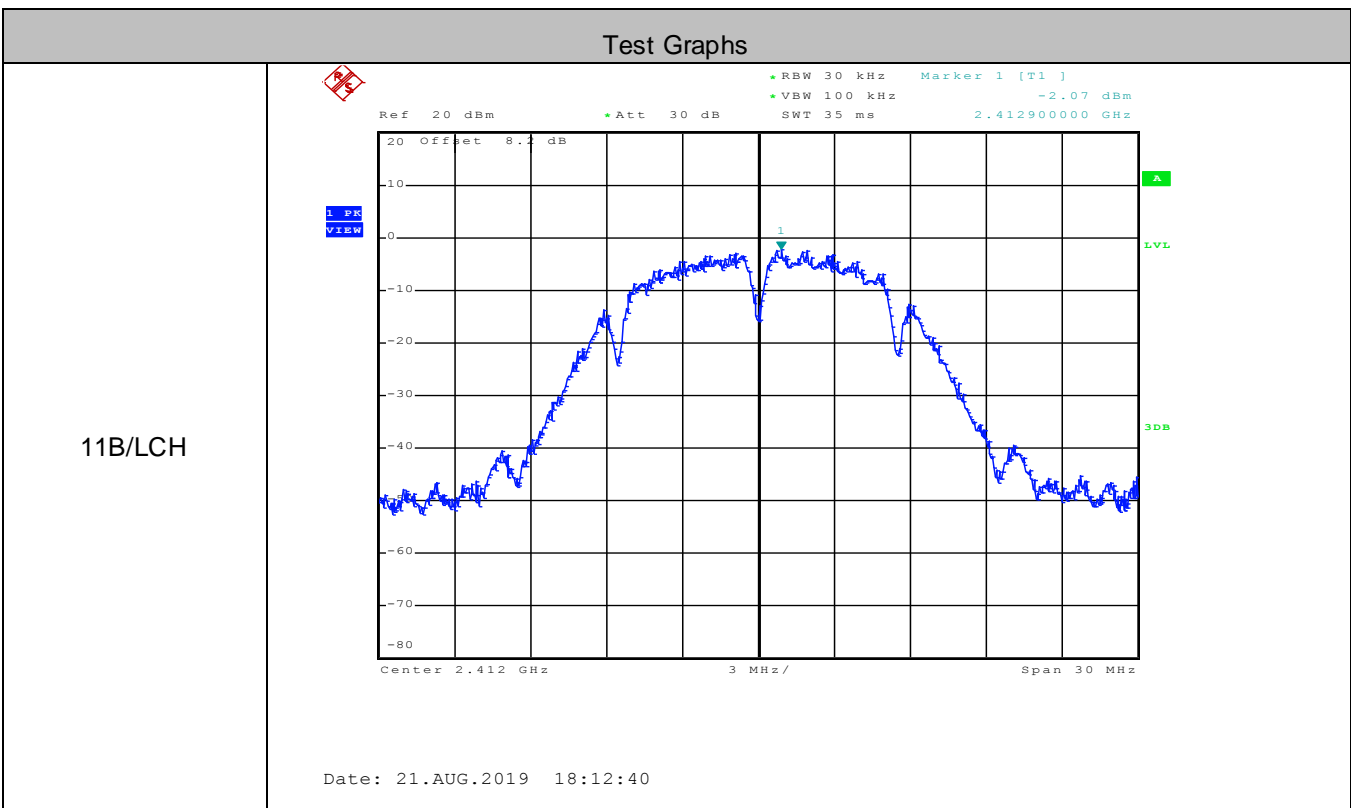
**C.2 Maximum Conducted Output Power**

Mode	Channel	Meas. Peak Level [dBm]	Meas. Average Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.80	13.63	30	PASS
	MCH	15.68	13.52	30	PASS
	HCH	15.45	13.16	30	PASS
11G	LCH	16.79	13.47	30	PASS
	MCH	16.32	12.86	30	PASS
	HCH	15.76	12.25	30	PASS
11N20SISO	LCH	16.28	12.86	30	PASS
	MCH	16.34	12.85	30	PASS
	HCH	15.86	12.25	30	PASS
11N40SISO	LCH	15.40	9.97	30	PASS
	MCH	15.49	10.21	30	PASS
	HCH	15.45	10.00	30	PASS

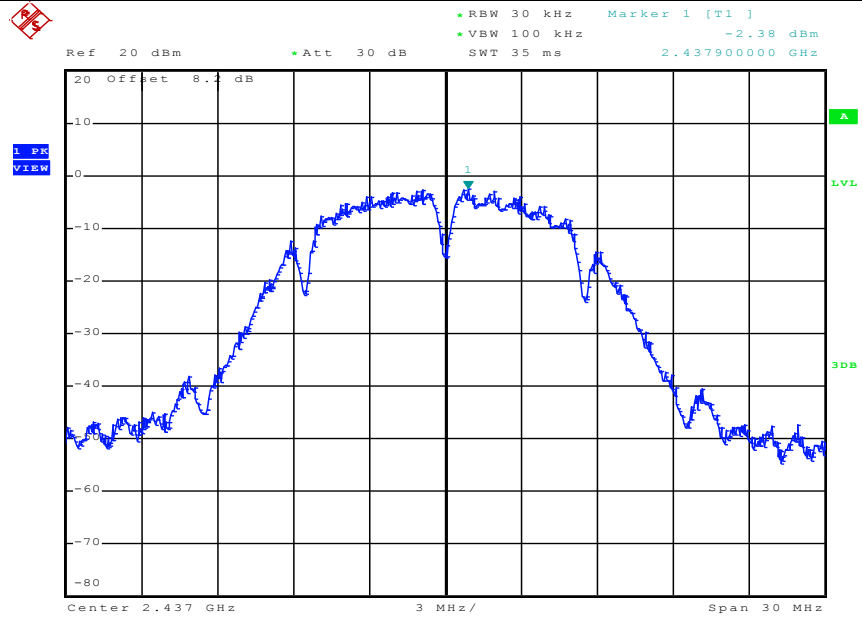
### C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-2.070	-10	-12.070	8	PASS
	MCH	-2.380	-10	-12.380	8	PASS
	HCH	-2.420	-10	-12.420	8	PASS
11G	LCH	-5.760	-10	-15.760	8	PASS
	MCH	-7.100	-10	-17.100	8	PASS
	HCH	-7.840	-10	-17.840	8	PASS
11N20SISO	LCH	-6.610	-10	-16.610	8	PASS
	MCH	-7.430	-10	-17.430	8	PASS
	HCH	-6.710	-10	-16.710	8	PASS
11N40SISO	LCH	-10.940	-10	-20.940	8	PASS
	MCH	-11.040	-10	-21.040	8	PASS
	HCH	-10.850	-10	-20.850	8	PASS

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

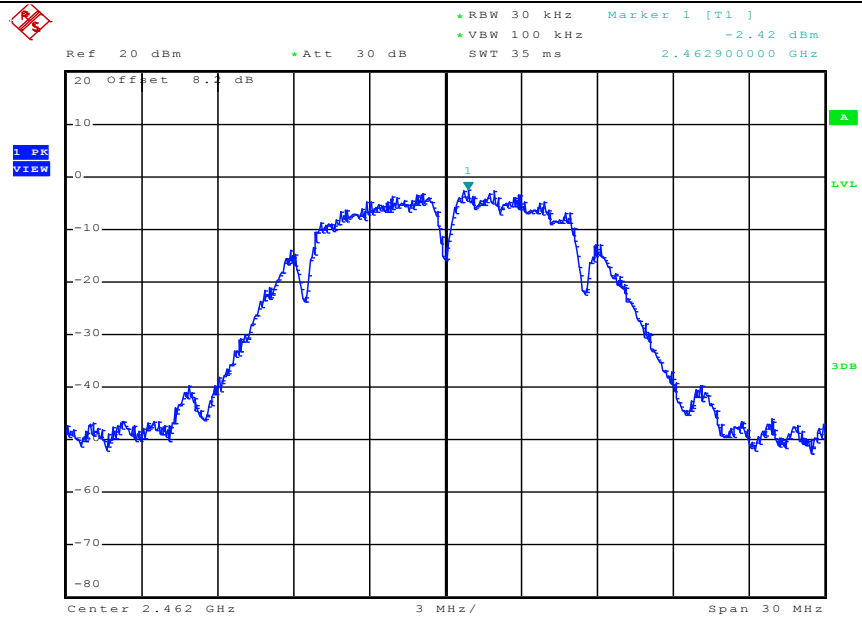


11B/MCH



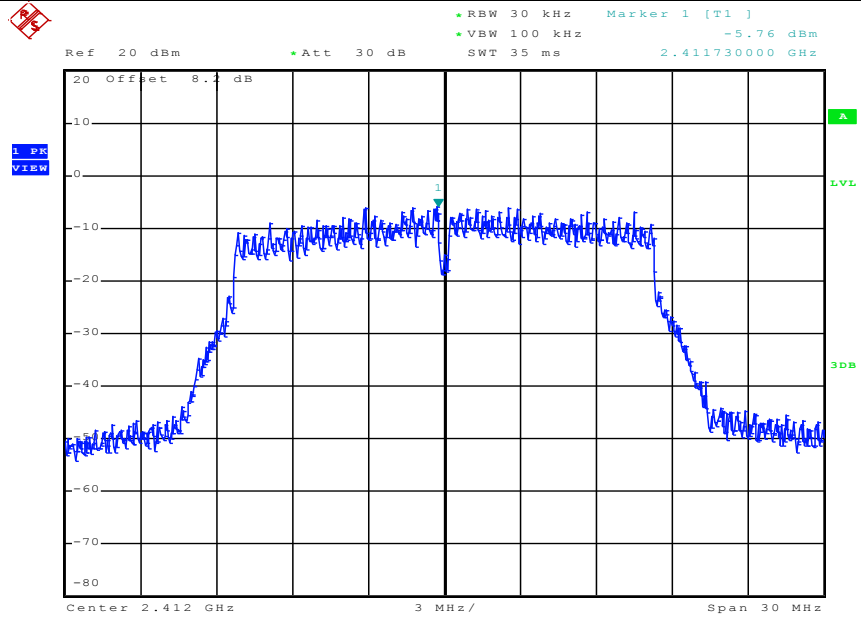
Date: 21.AUG.2019 18:16:25

11B/HCH



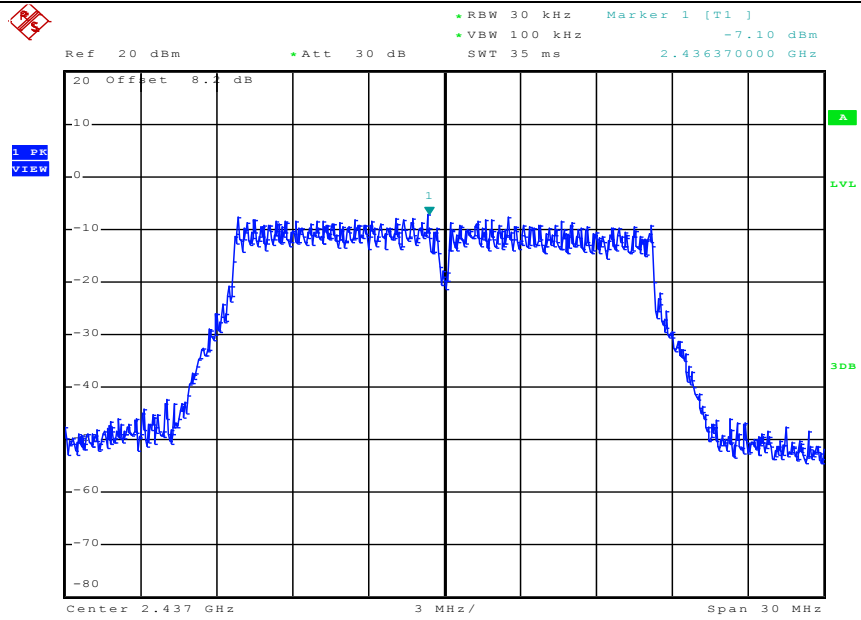
Date: 21.AUG.2019 18:18:50

11G/LCH



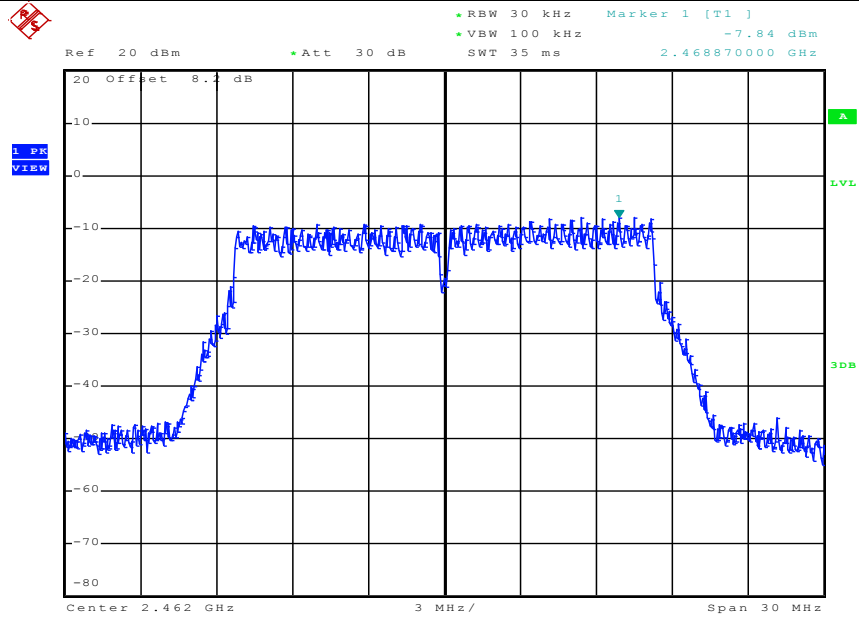
Date: 21.AUG.2019 18:22:22

11G/MCH



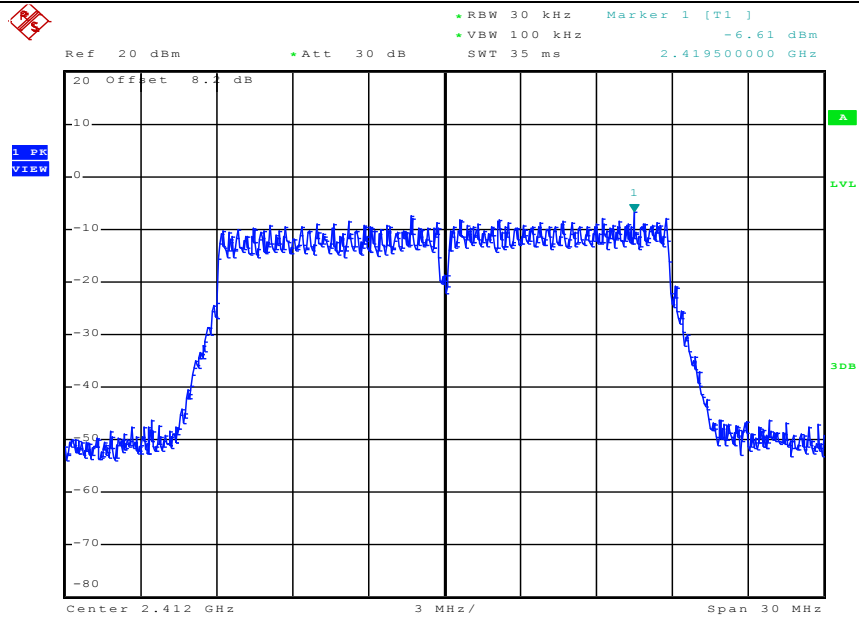
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11G/HCH



Date: 21.AUG.2019 18:26:55

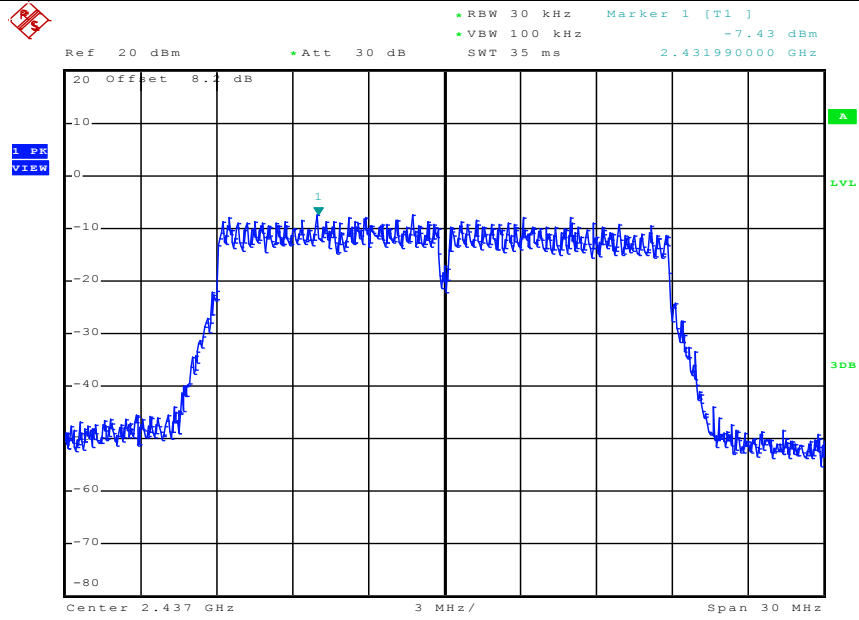
11N20SISO/LCH



Date: 21.AUG.2019 18:30:57

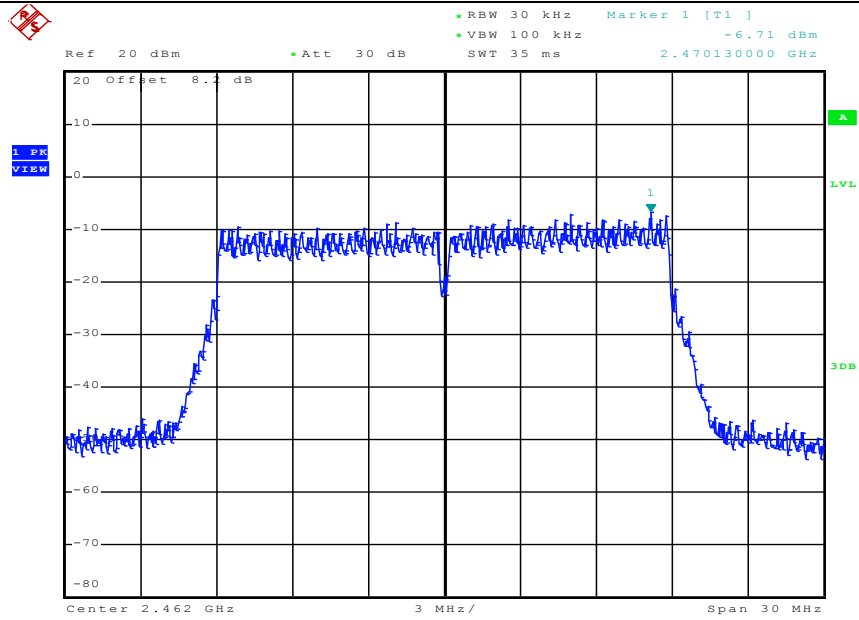


11N20SISO/MCH



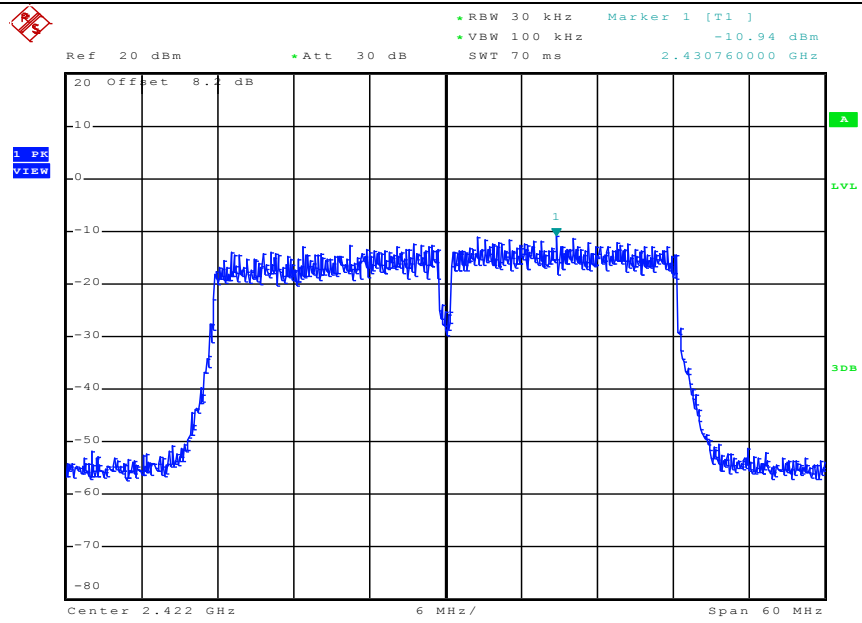
Date: 21.AUG.2019 18:34:13

11N20SISO/HCH



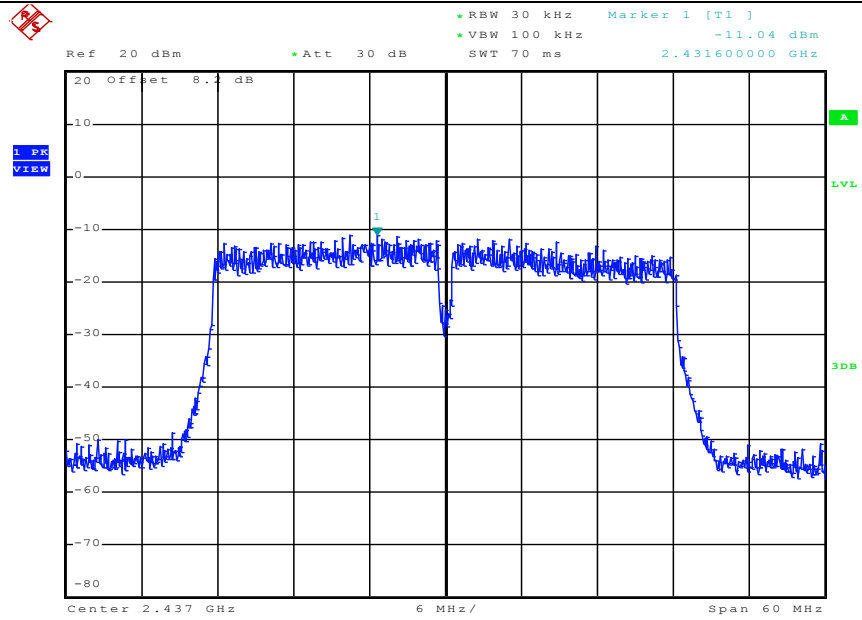
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11N40SISO/LCH

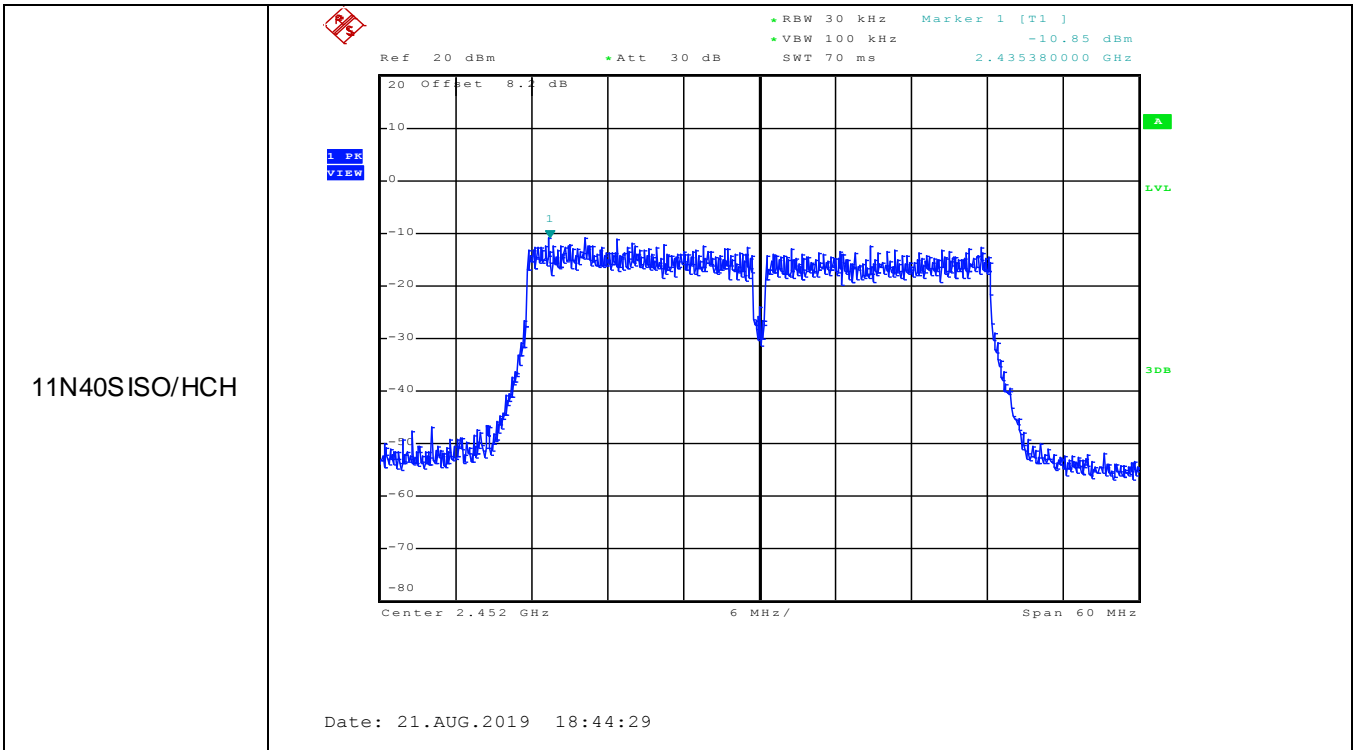


Date: 21.AUG.2019 18:39:23

11N40SISO/MCH

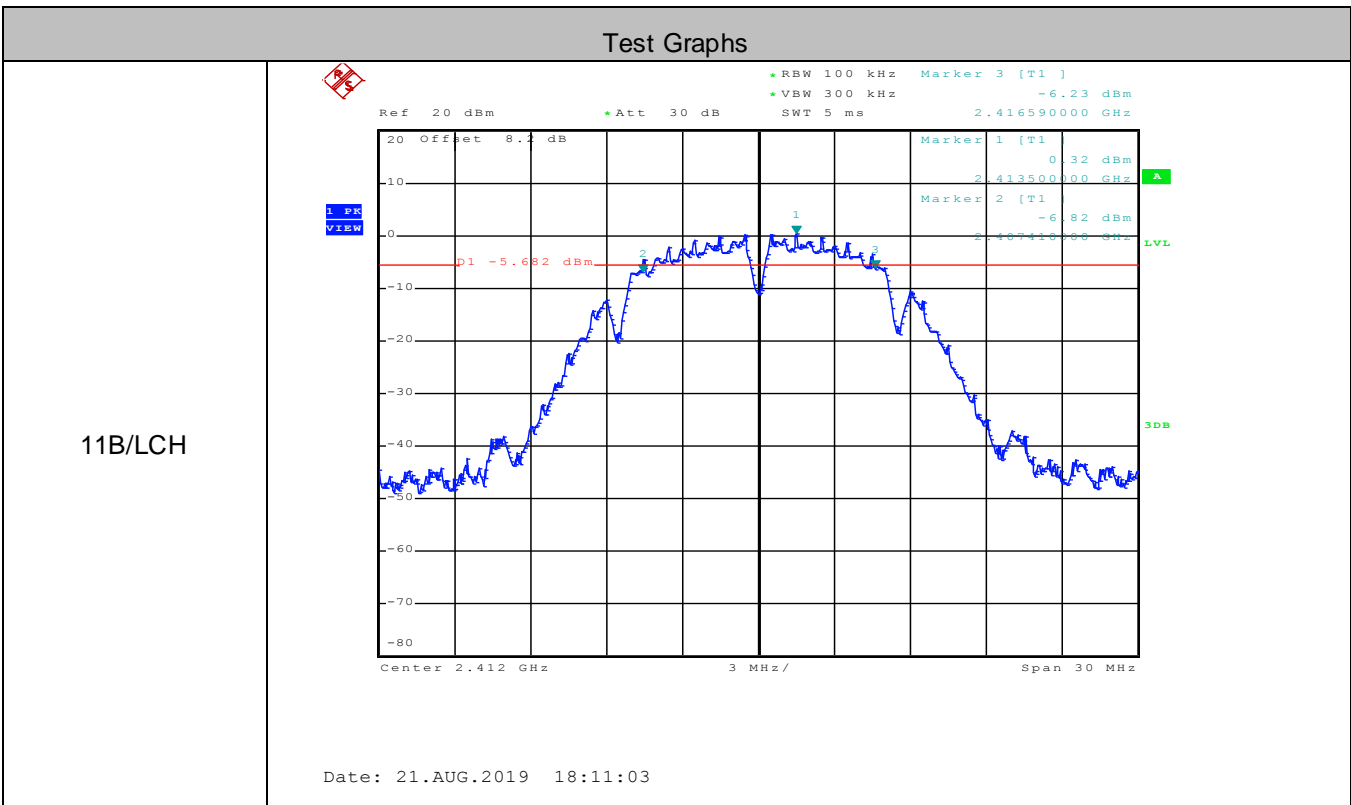


Date: 21.AUG.2019 18:42:38

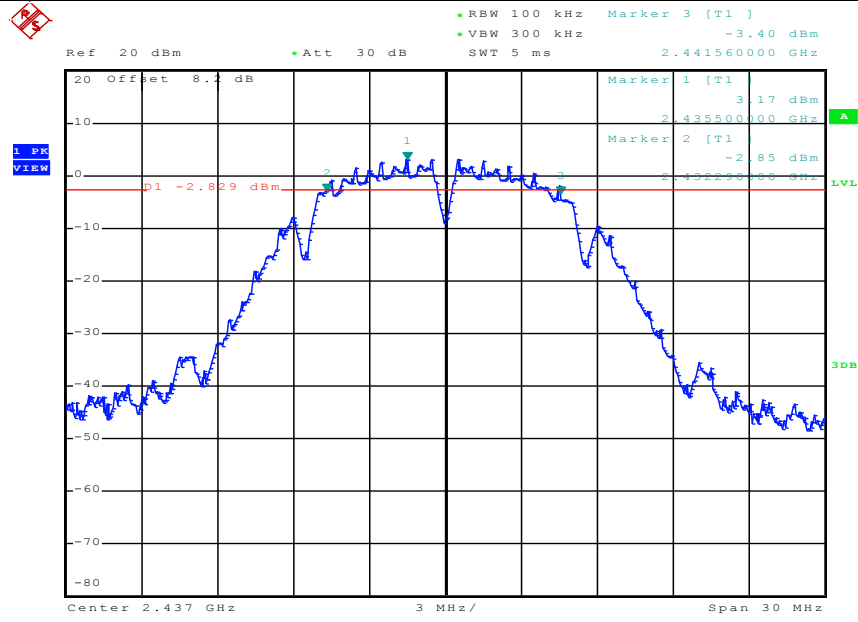


**C.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.180	≥0.5	PASS
	MCH	9.270	≥0.5	PASS
	HCH	9.330	≥0.5	PASS
11G	LCH	14.040	≥0.5	PASS
	MCH	16.380	≥0.5	PASS
	HCH	16.500	≥0.5	PASS
11N20SISO	LCH	17.370	≥0.5	PASS
	MCH	17.250	≥0.5	PASS
	HCH	17.670	≥0.5	PASS
11N40SISO	LCH	34.200	≥0.5	PASS
	MCH	35.280	≥0.5	PASS
	HCH	36.180	≥0.5	PASS

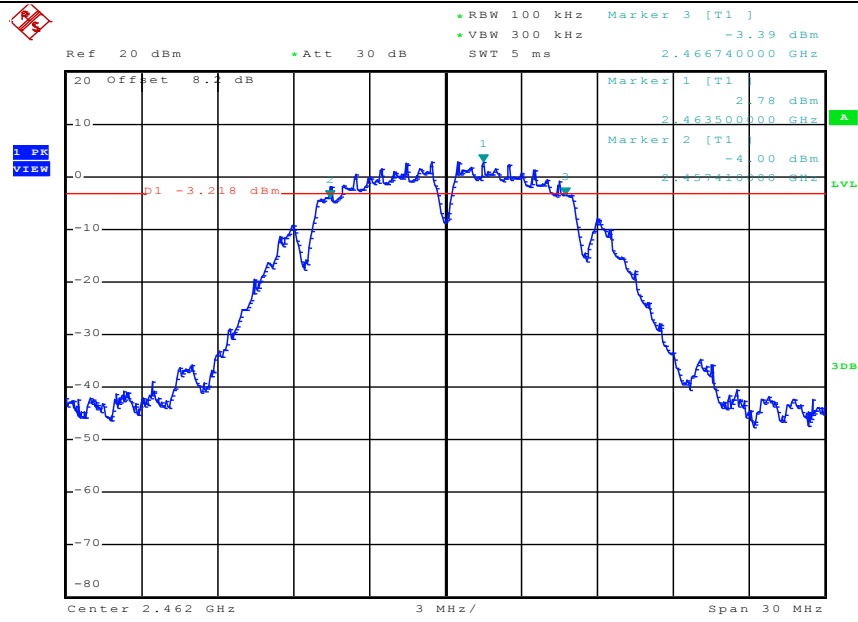


11B/MCH



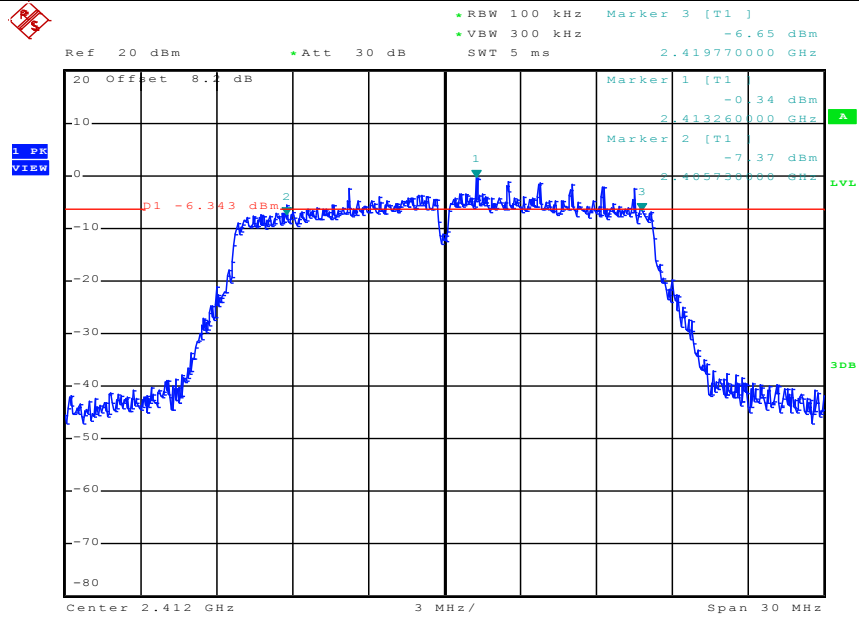
Date: 21.AUG.2019 18:15:37

11B/HCH



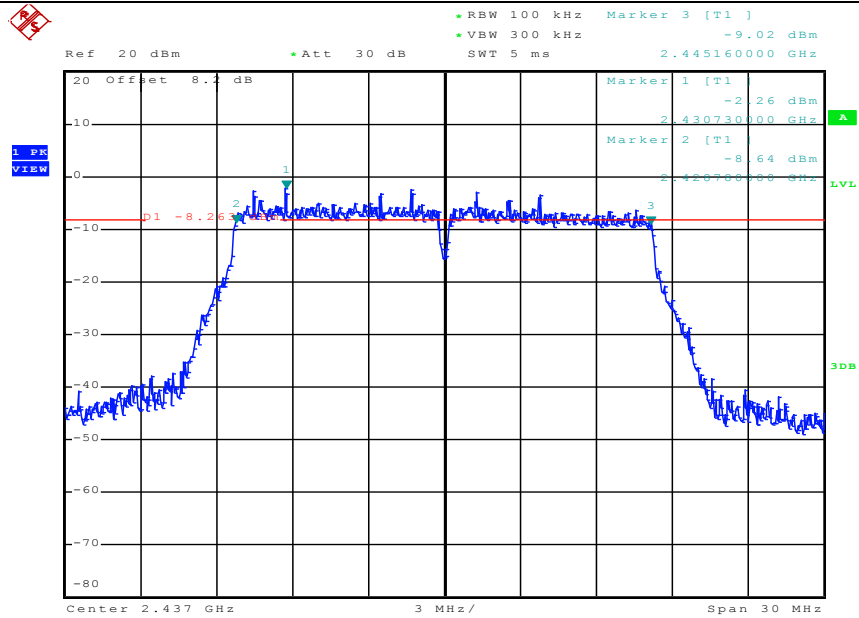
Date: 21.AUG.2019 18:18:03

11G/LCH



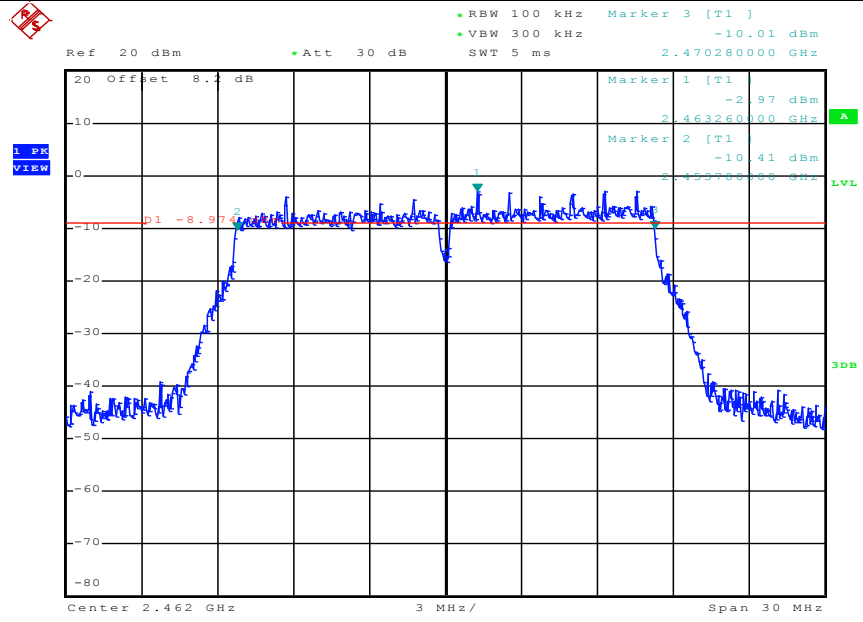
Date: 21.AUG.2019 18:21:04

11G/MCH



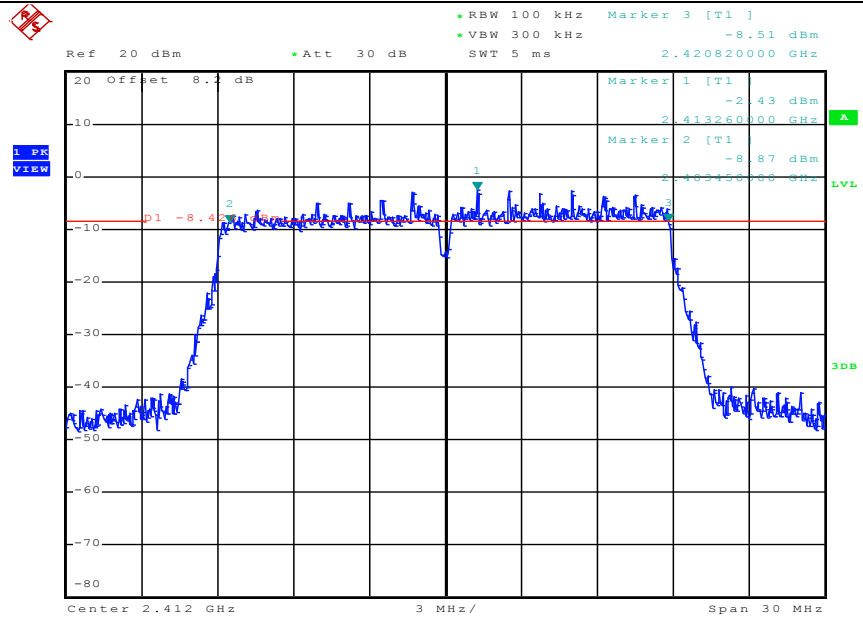
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11G/HCH



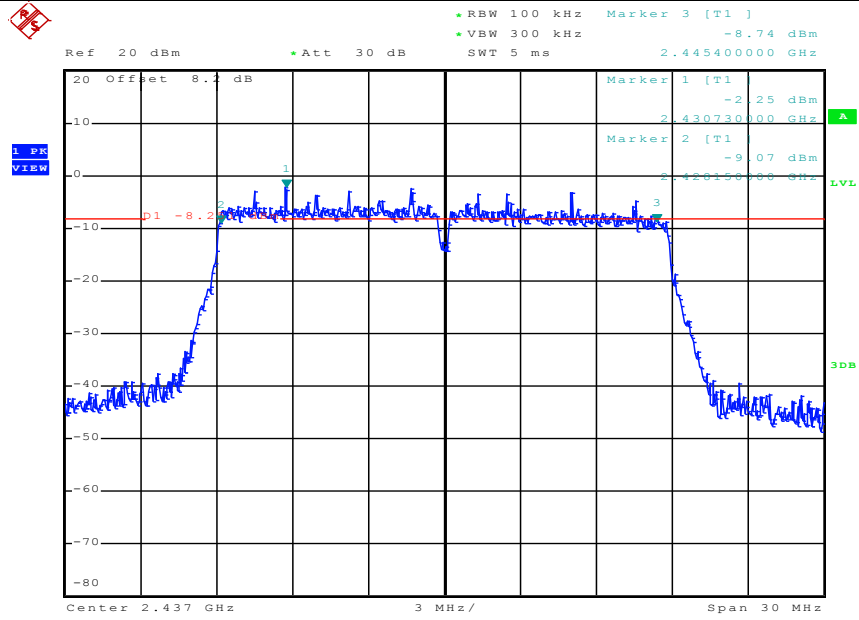
Date: 21.AUG.2019 18:26:07

11N20SISO/LCH



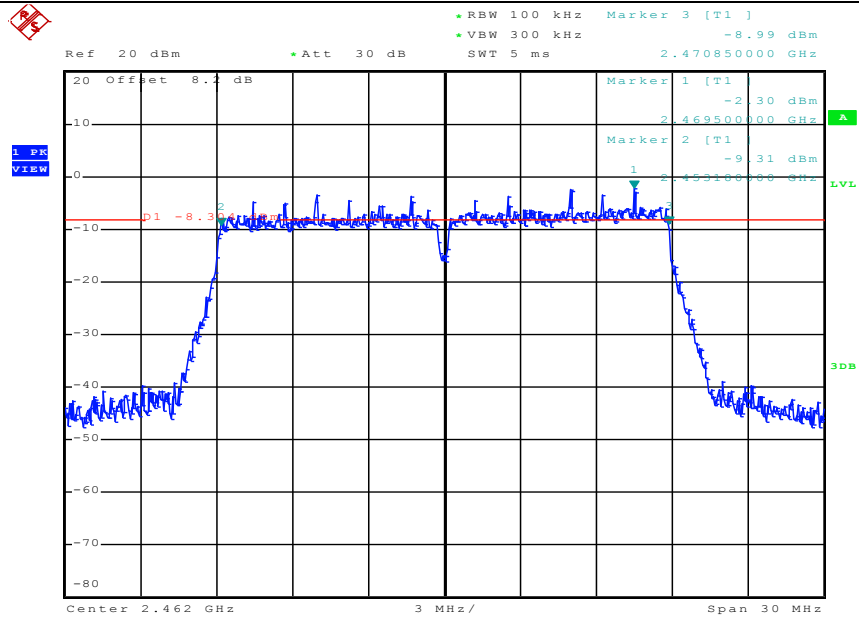
Date: 21.AUG.2019 18:30:10

11N20SISO/MCH



Date: 21.AUG.2019 18:33:25

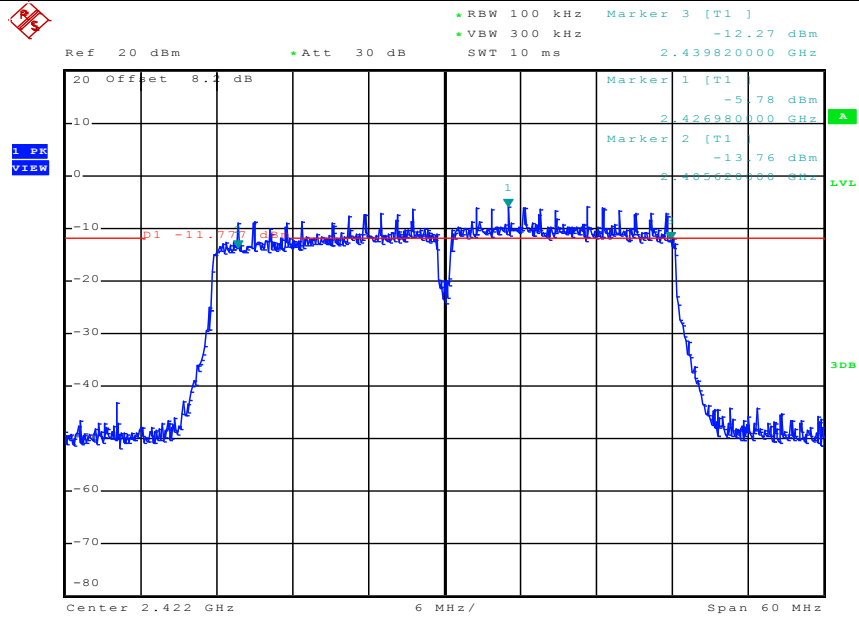
11N20SISO/HCH



Date: 21.AUG.2019 18:35:25

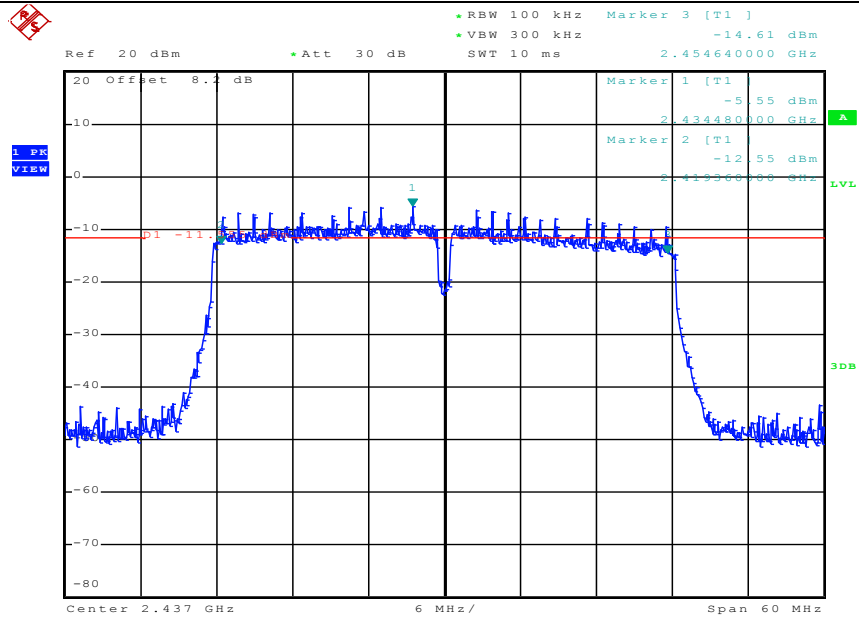


11N40SISO/LCH



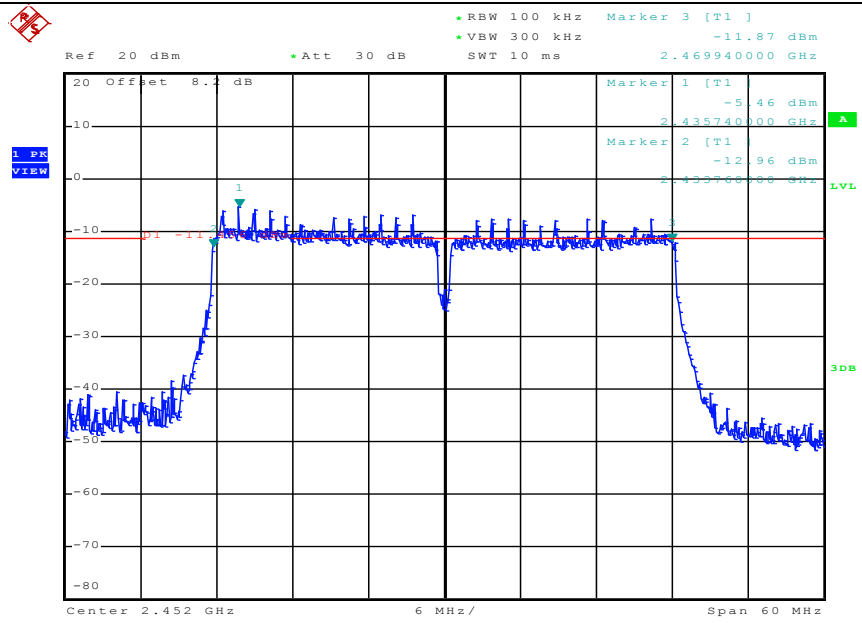
Date: 21.AUG.2019 18:38:35

11N40SISO/MCH



Date: 21.AUG.2019 18:41:50

11N40SISO/HCH



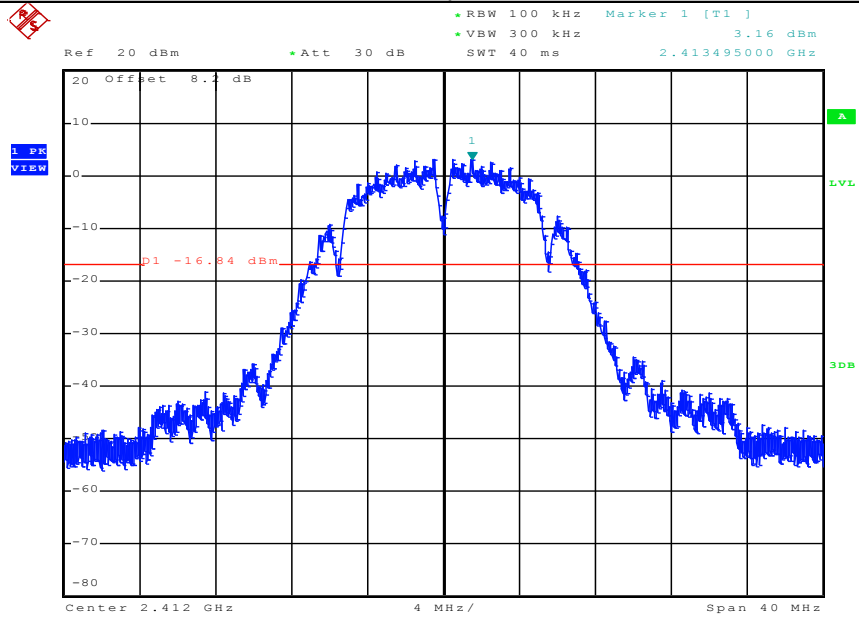
Date: 21.AUG.2019 18:43:42

### C.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.16	-31.590	-16.840	PASS
	MCH	3.1	-31.990	-16.900	PASS
	HCH	2.8	-32.450	-17.200	PASS
11G	LCH	-1.76	-32.190	-21.760	PASS
	MCH	-2.07	-32.430	-22.070	PASS
	HCH	-2.92	-32.280	-22.920	PASS
11N20 SISO	LCH	-2.38	-31.630	-22.380	PASS
	MCH	-2.34	-31.410	-22.340	PASS
	HCH	-2.39	-31.310	-22.390	PASS
11N40 SISO	LCH	-5.76	-31.780	-25.760	PASS
	MCH	-5.4	-31.250	-25.400	PASS
	HCH	-5.32	-31.470	-25.320	PASS

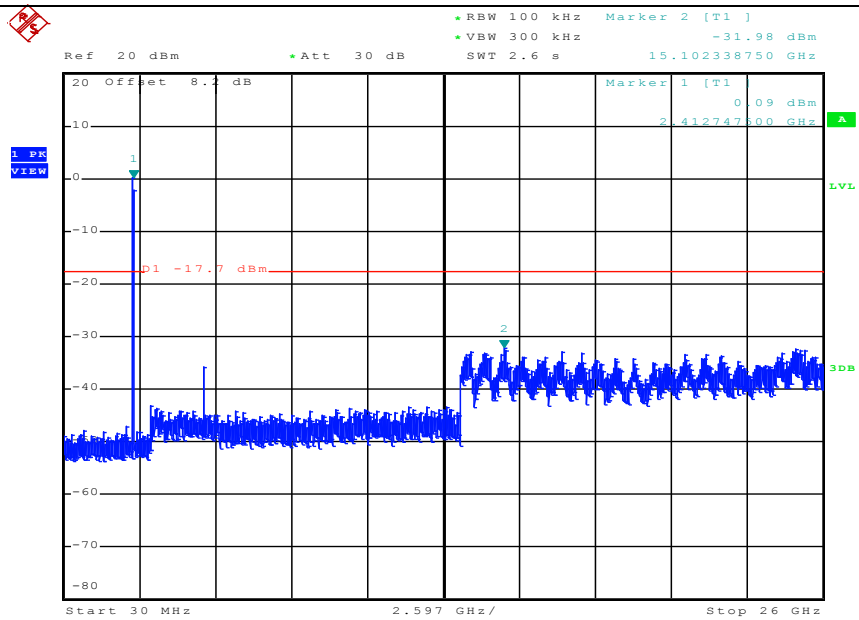
11B\_LCH\_Graphs

Pref/11B/LCH



Date: 21.AUG.2019 18:13:07

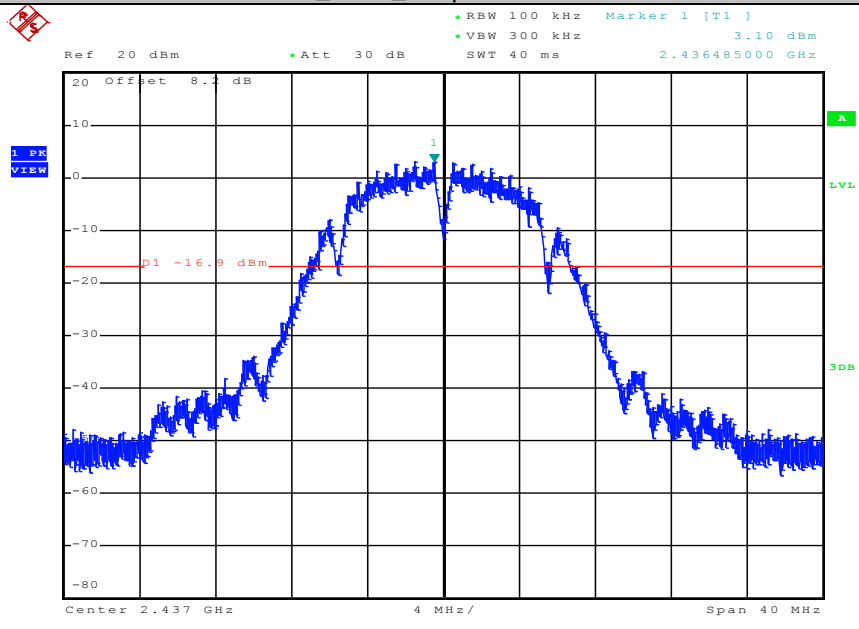
Puw/11B/LCH



Date: 12.OCT.2019 10:08:44

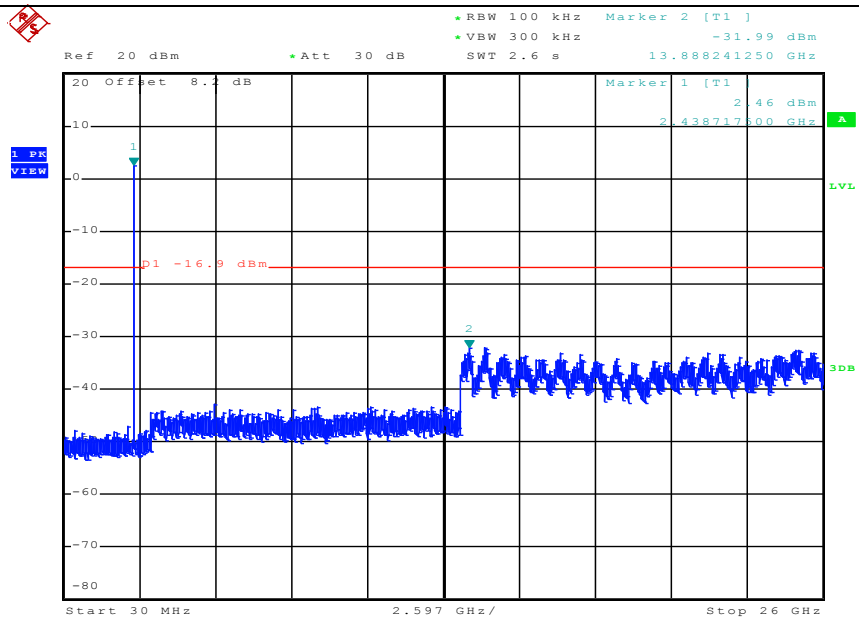
### 11B\_MCH\_Graphs

Pref/11B/MCH



Date: 21.AUG.2019 18:17:10

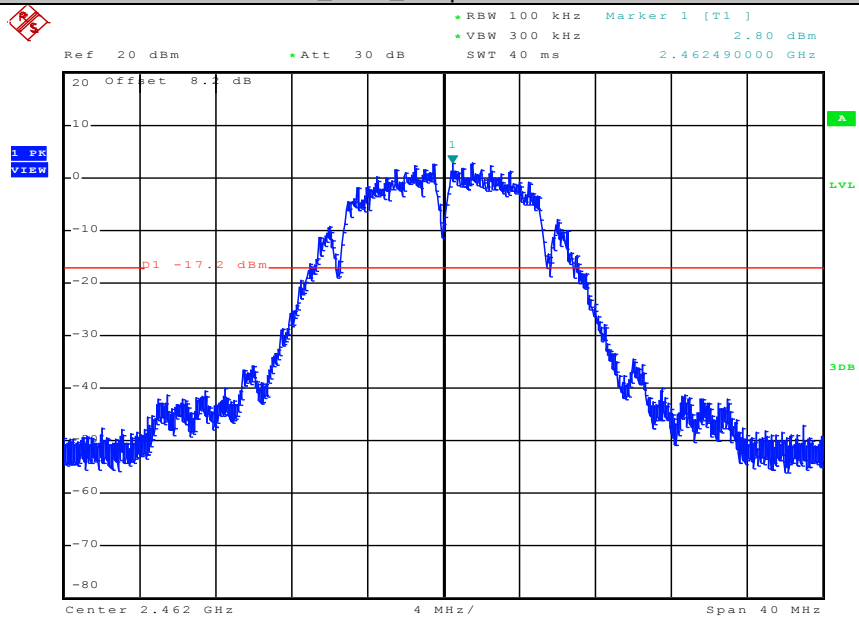
Puw/11B/MCH



Date: 21.AUG.2019 18:17:29

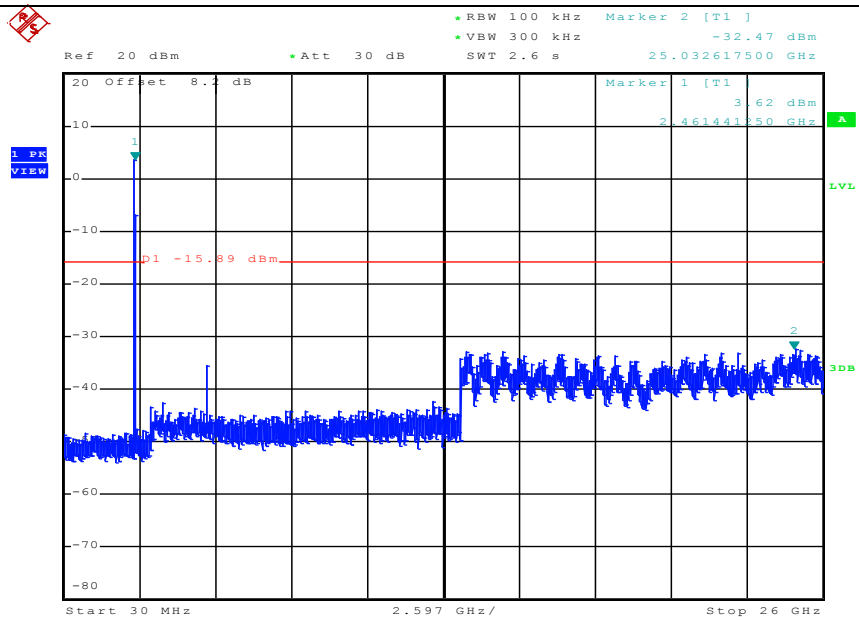
### 11B\_HCH\_Graphs

Pref/11B/HCH



Date: 21.AUG.2019 18:19:16

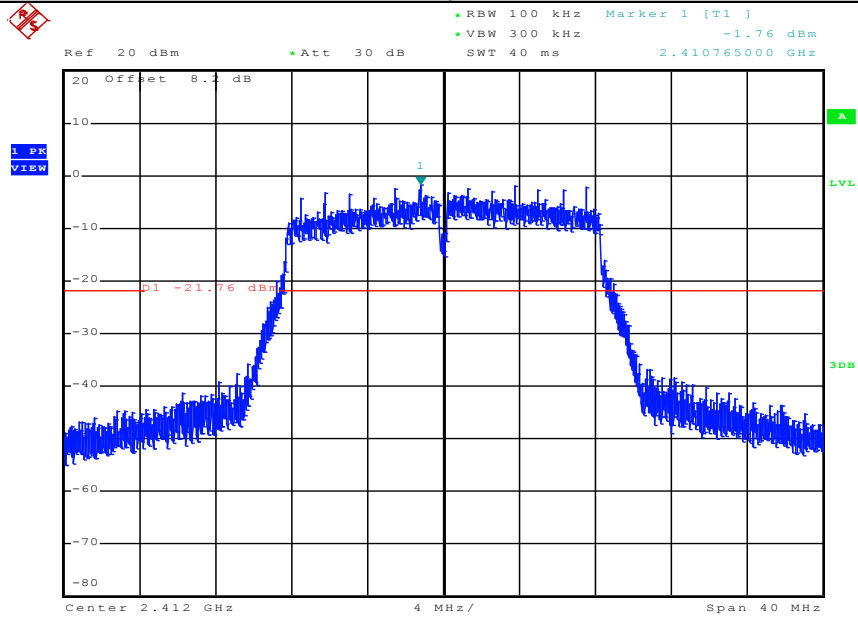
Puw/11B/HCH



Date: 12.OCT.2019 10:18:44

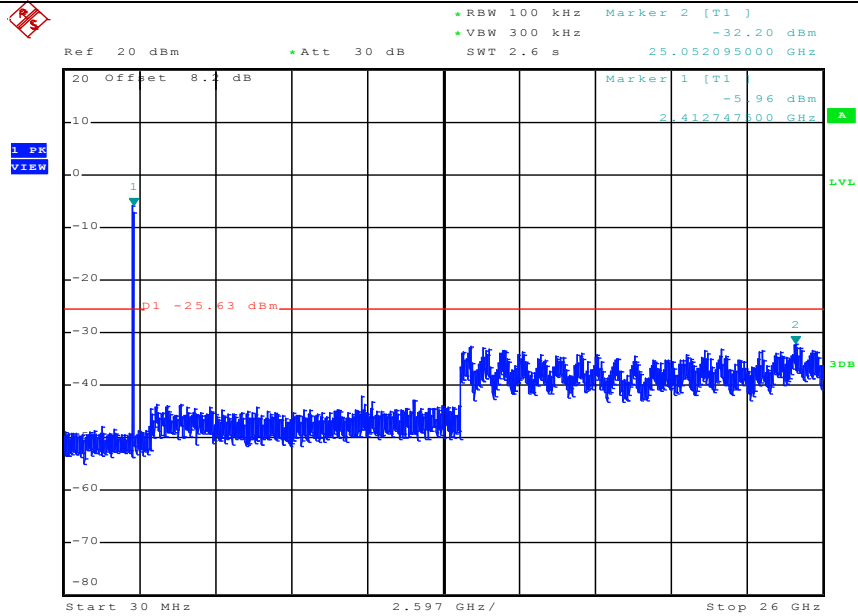
11G\_LCH\_Graphs

Pref/11G/LCH



Date: 21.AUG.2019 18:22:48

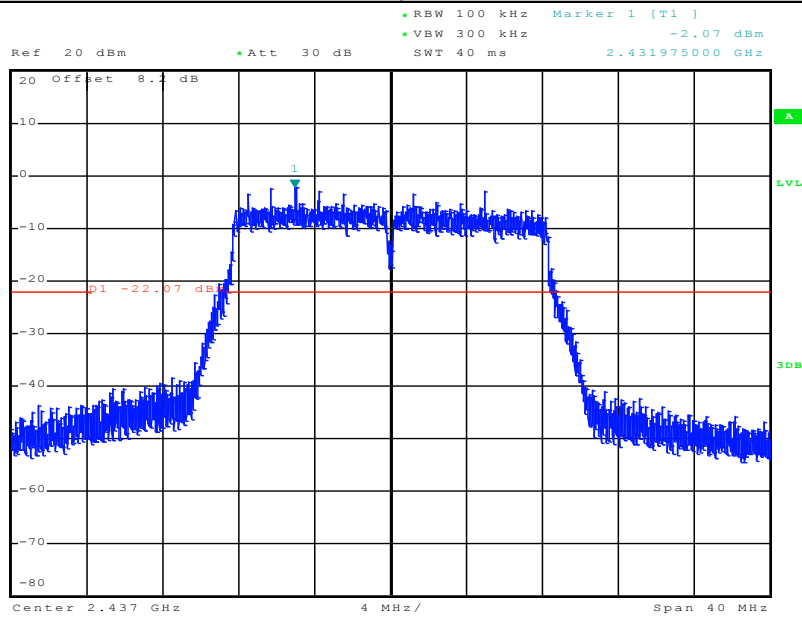
Puw/11G/LCH



Date: 12.OCT.2019 10:22:37

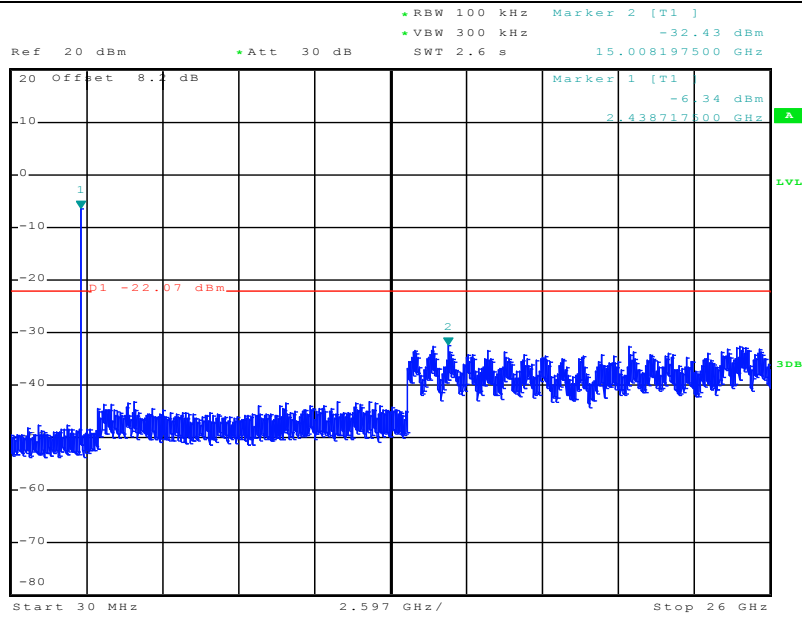
### 11G\_MCH\_Graphs

Pref/11G/MCH



Date: 21.AUG.2019 18:25:15

Puw/11G/MCH

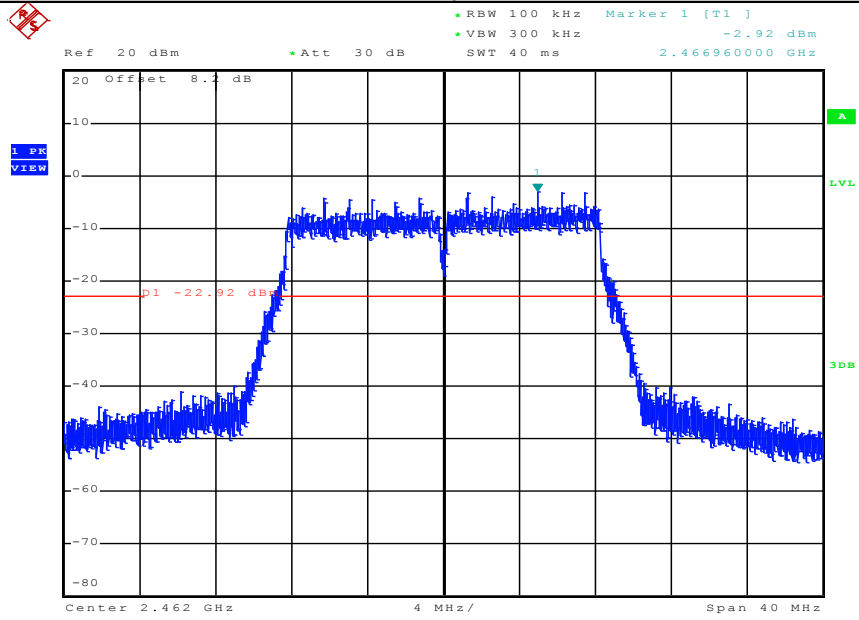


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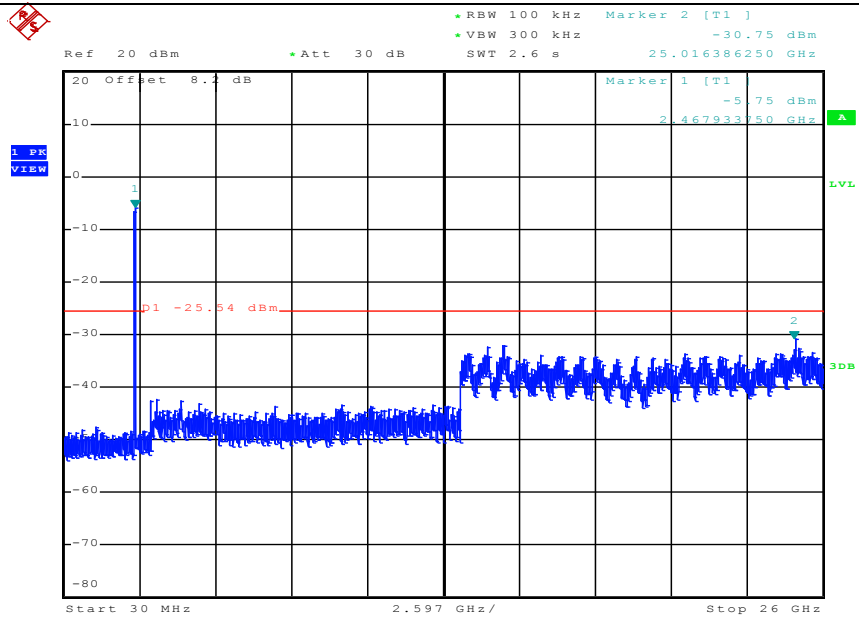
11G\_HCH\_Graphs

Pref/11G/HCH



Date: 21.AUG.2019 18:28:48

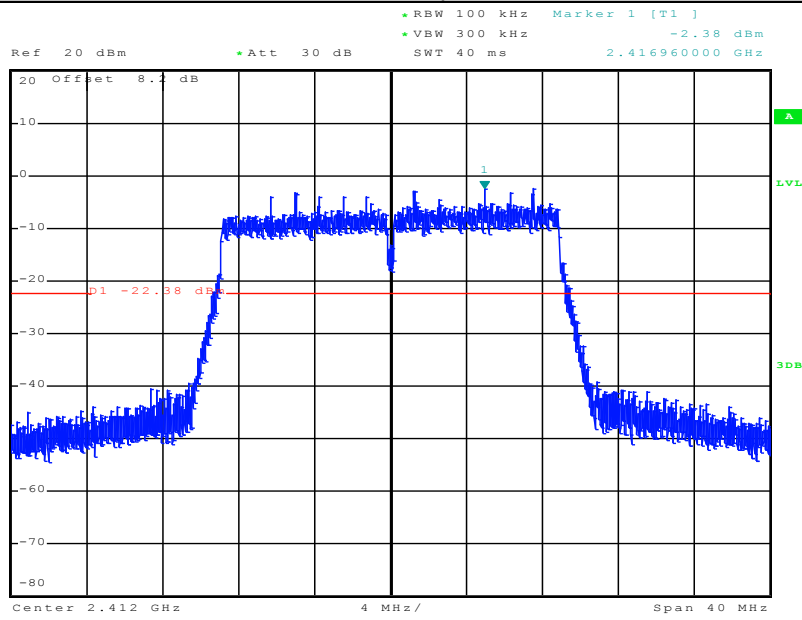
Puw/11G/HCH



Date: 12.OCT.2019 10:27:10

11N20SISO\_LCH\_Graphs

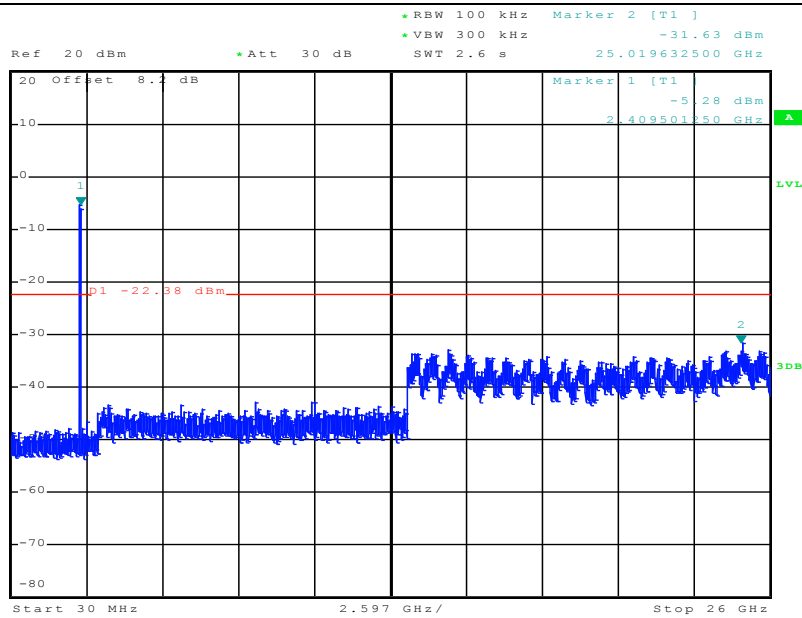
Pref/11N20SIS  
O/LCH



Date: 21.AUG.2019 18:31:24



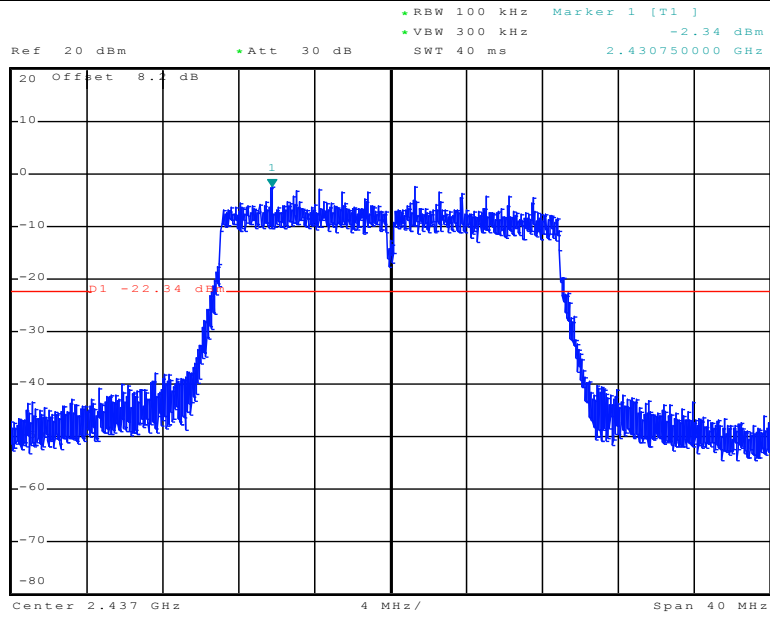
Puw/11N20  
SISO/LCH



Date: 21.AUG.2019 18:31:39

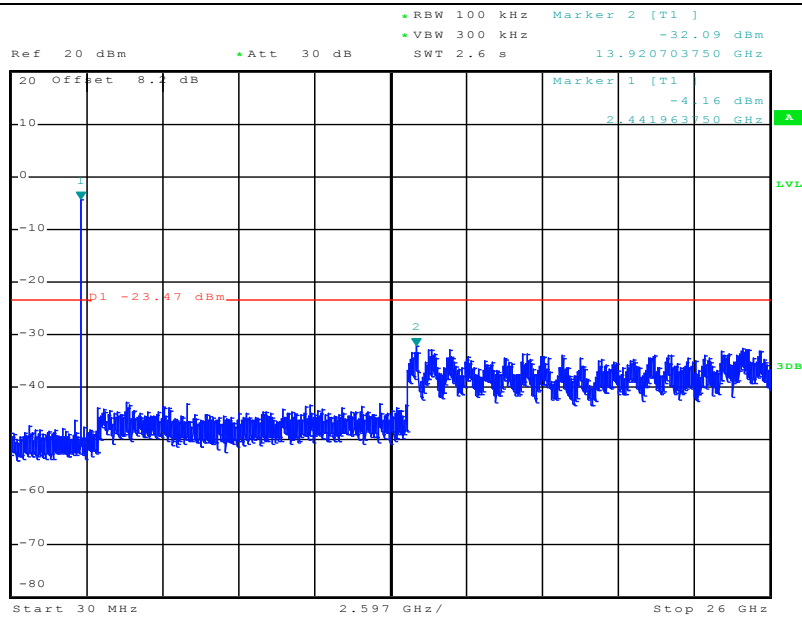
11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH



Date: 21.AUG.2019 18:34:25

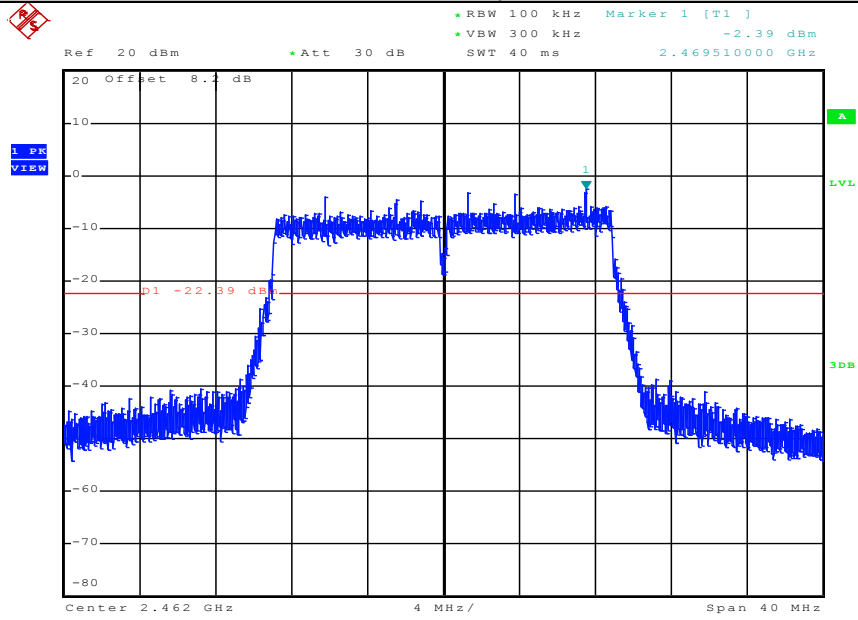
Puw/11N20  
SISO/MCH



Date: 12.OCT.2019 10:32:17

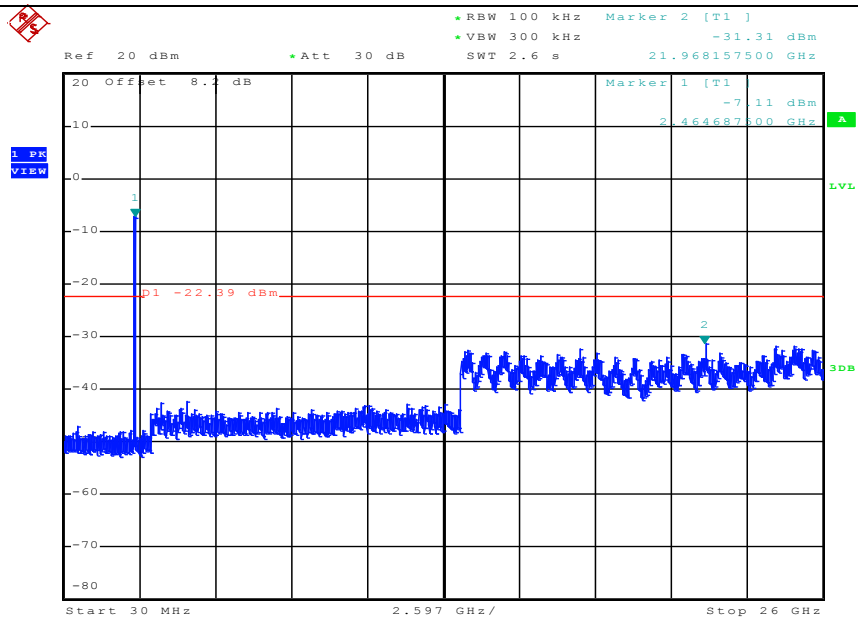
11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH



Date: 21.AUG.2019 18:36:39

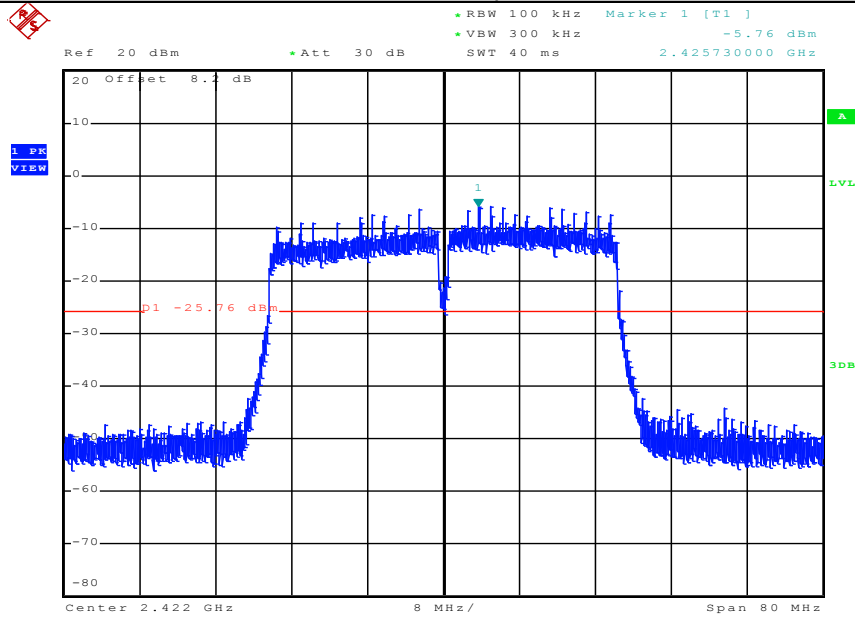
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SISO/HCH



Date: 21.AUG.2019 18:37:05

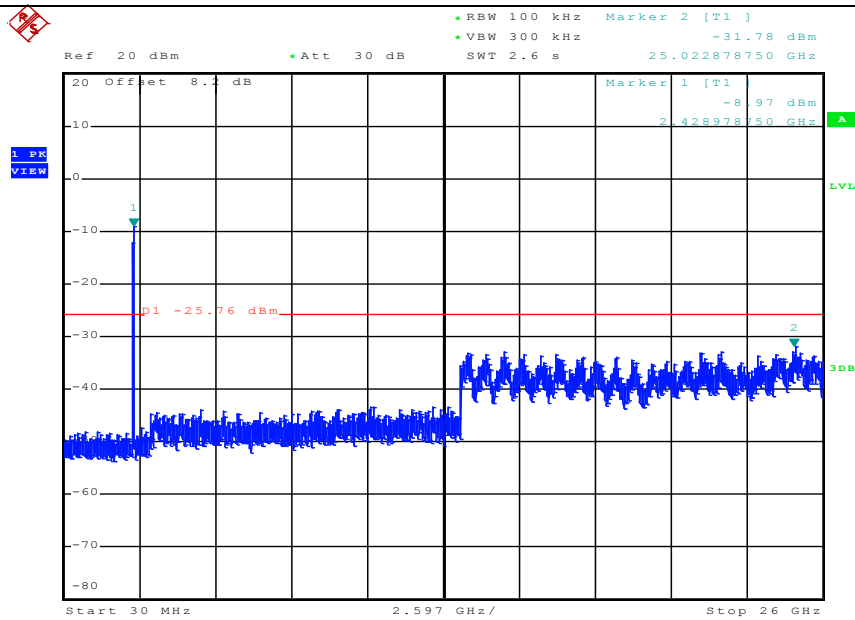
11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH



Date: 21.AUG.2019 18:40:02

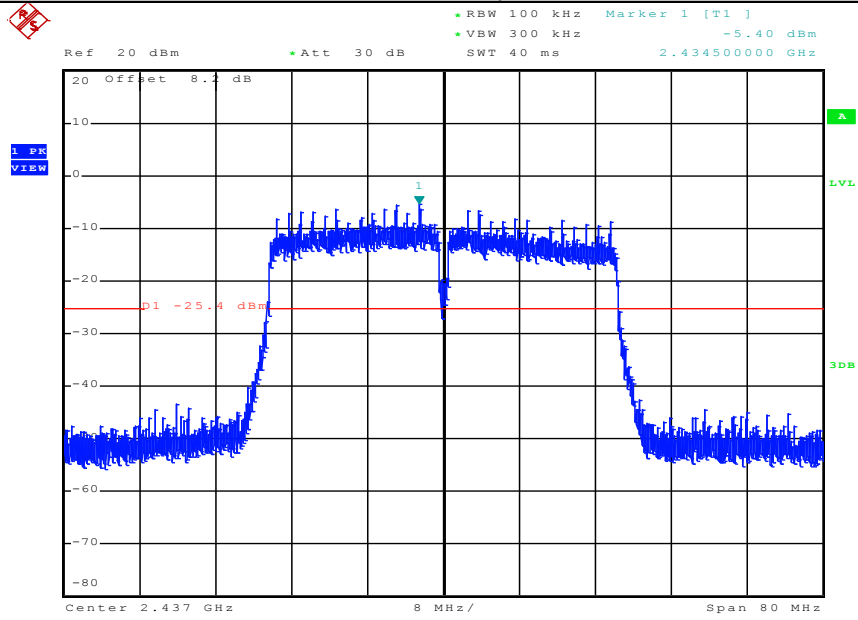
Puw/11N40  
SISO/LCH



Date: 21.AUG.2019 18:40:16

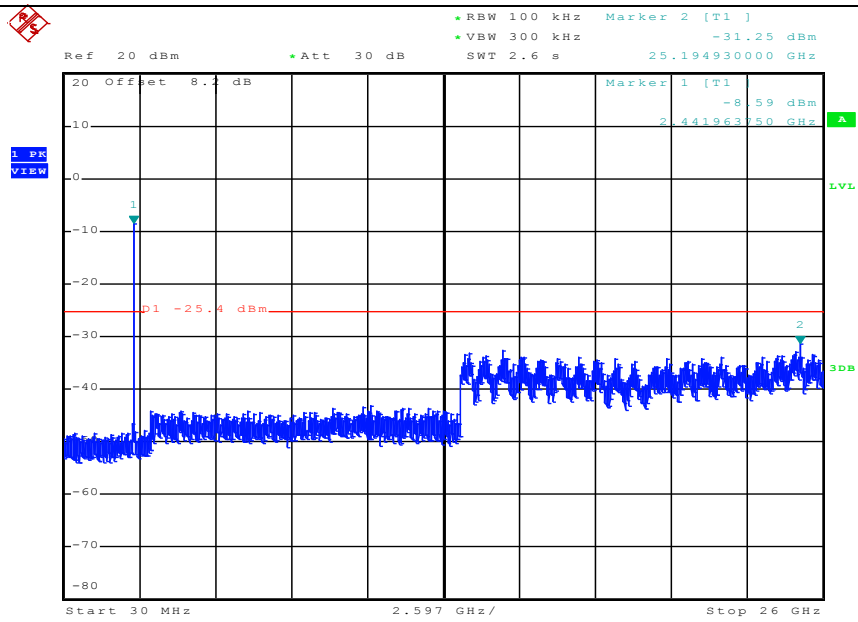
11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH



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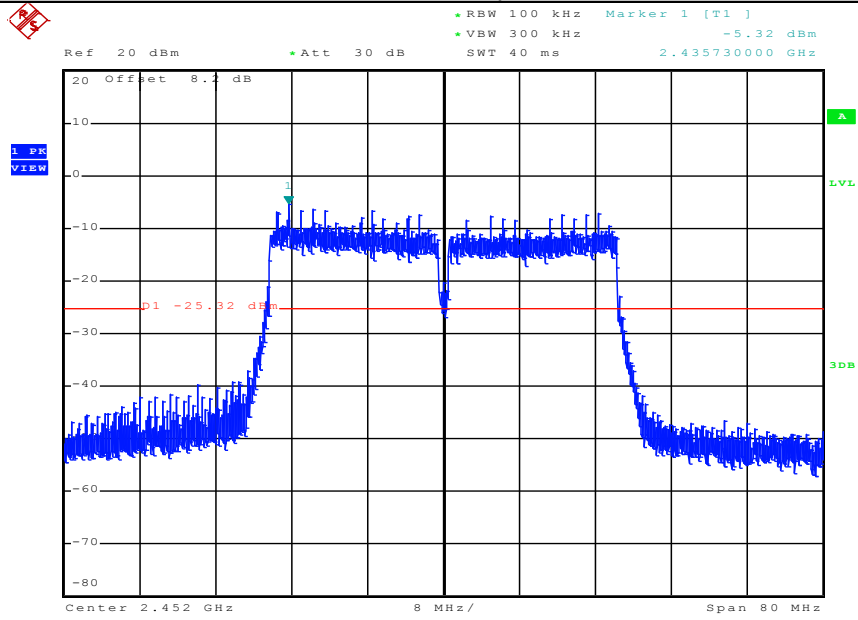
Puw/11N40  
SISO/MCH



Date: 21.AUG.2019 18:43:05

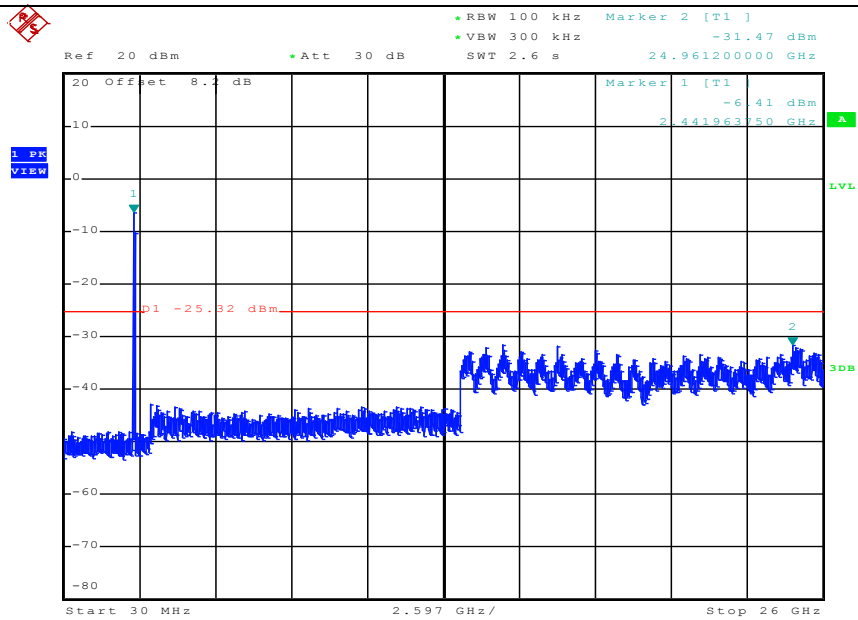
11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH



Date: 21.AUG.2019 18:44:56

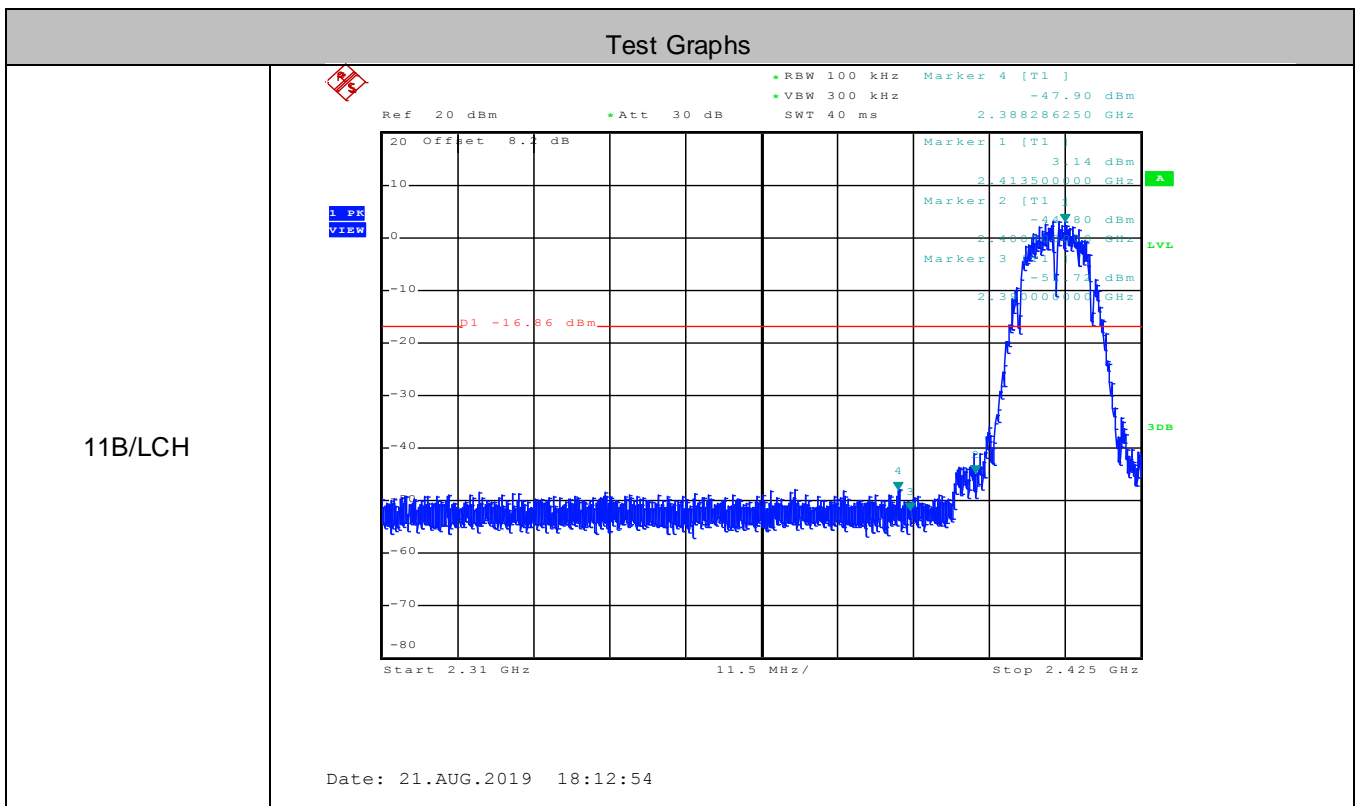
Puw/11N40  
SISO/HCH



Date: 21.AUG.2019 18:45:16

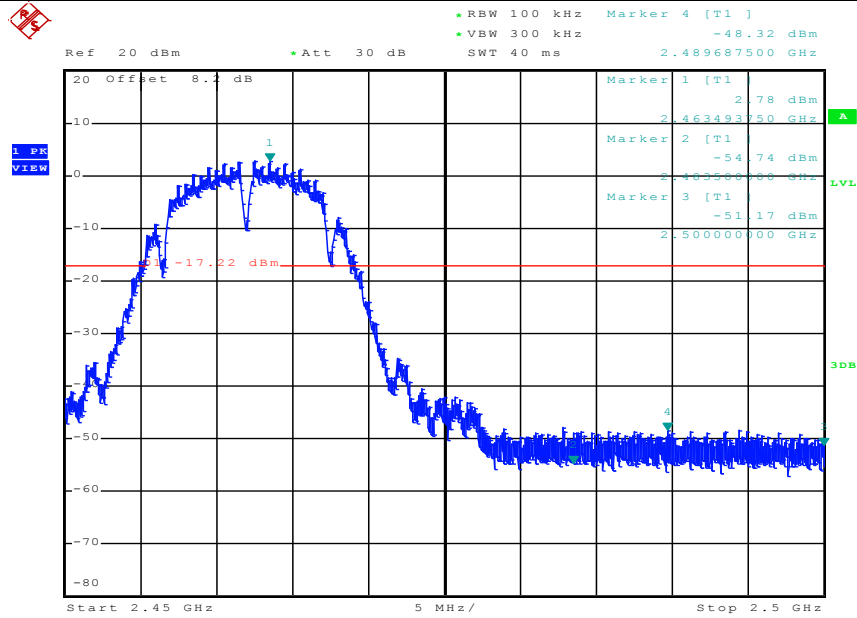
C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.140	-47.902	-16.86	PASS
	HCH	2.780	-48.325	-17.22	PASS
11G	LCH	-0.970	-47.210	-20.97	PASS
	HCH	-3.030	-47.856	-23.03	PASS
11N20SISO	LCH	-2.030	-48.106	-22.03	PASS
	HCH	-2.690	-46.976	-22.69	PASS
11N40SISO	LCH	-5.660	-46.359	-25.66	PASS
	HCH	-5.690	-47.472	-25.69	PASS



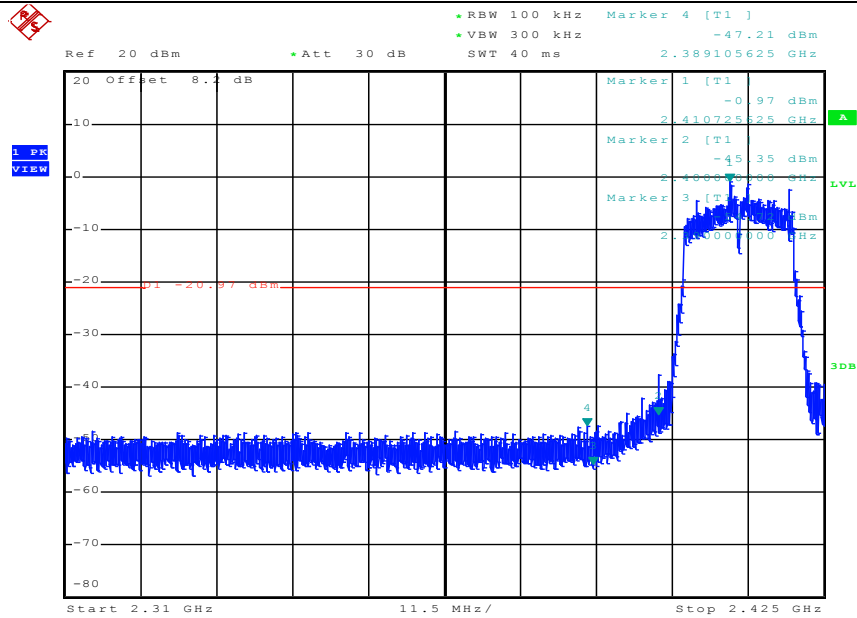


11B/HCH



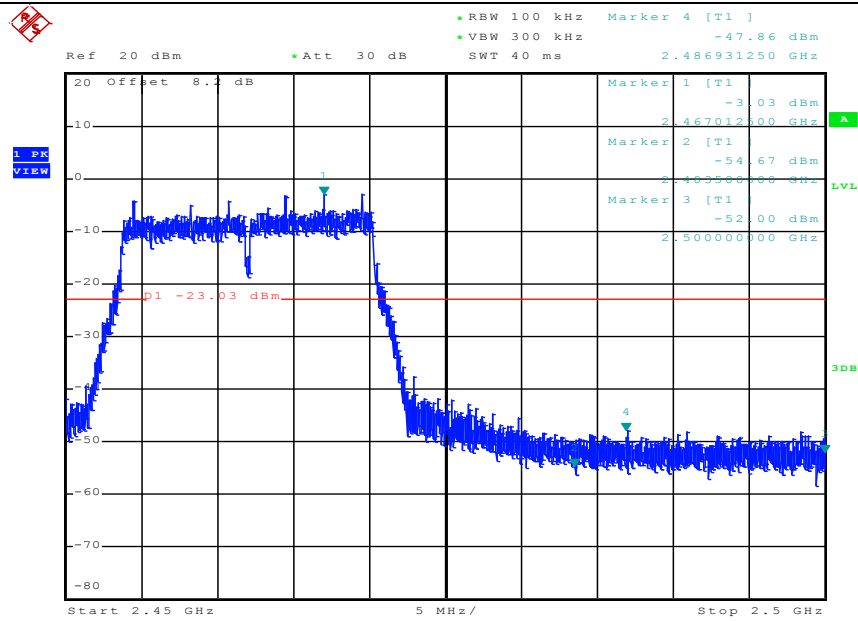
Date: 21.AUG.2019 18:19:03

11G/LCH



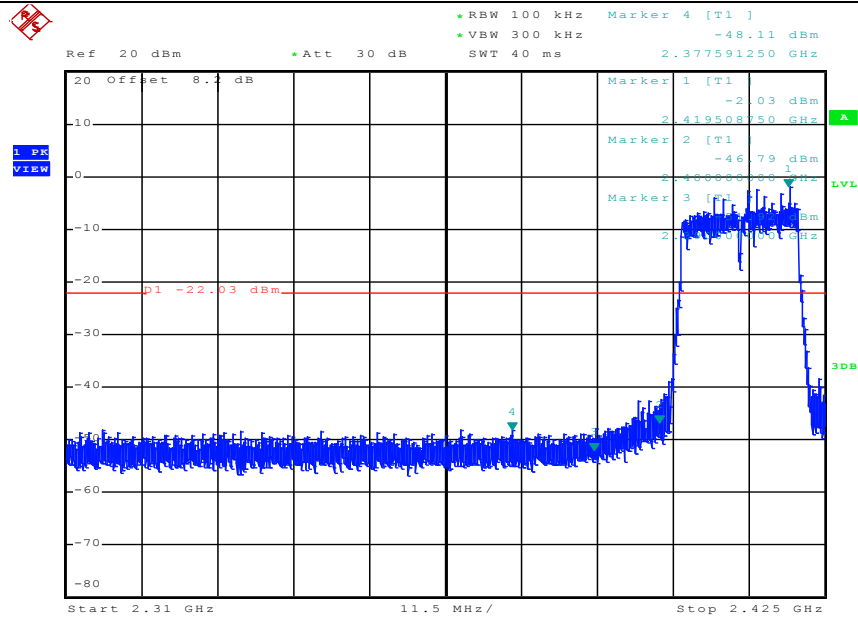
Date: 21.AUG.2019 18:22:35

11G/HCH



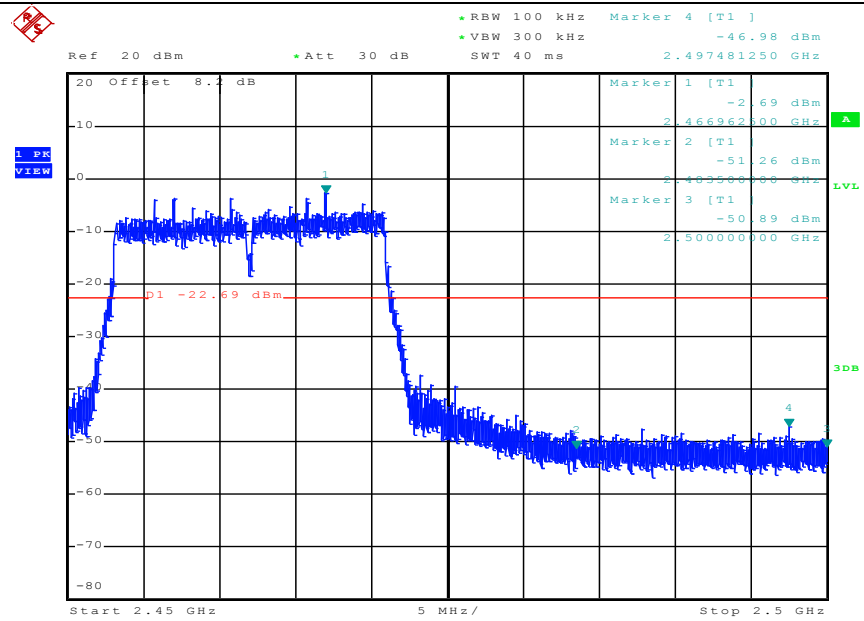
Date: 21.AUG.2019 18:27:09

11N20SISO/LCH



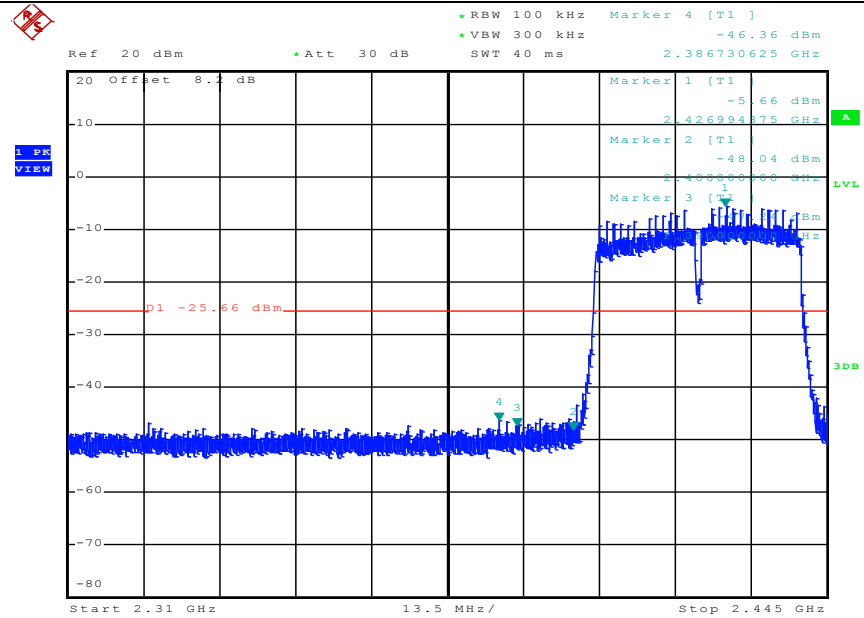
Date: 21.AUG.2019 18:31:11

11N20SISO/HCH



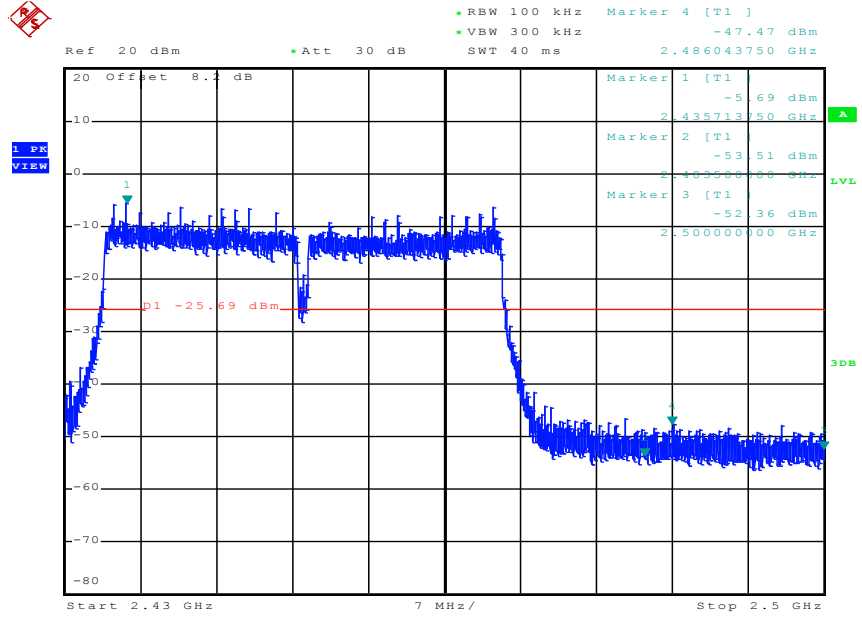
Date: 21.AUG.2019 18:36:26

11N40SISO/LCH



Date: 21.AUG.2019 18:39:49

11N40SISO/HCH



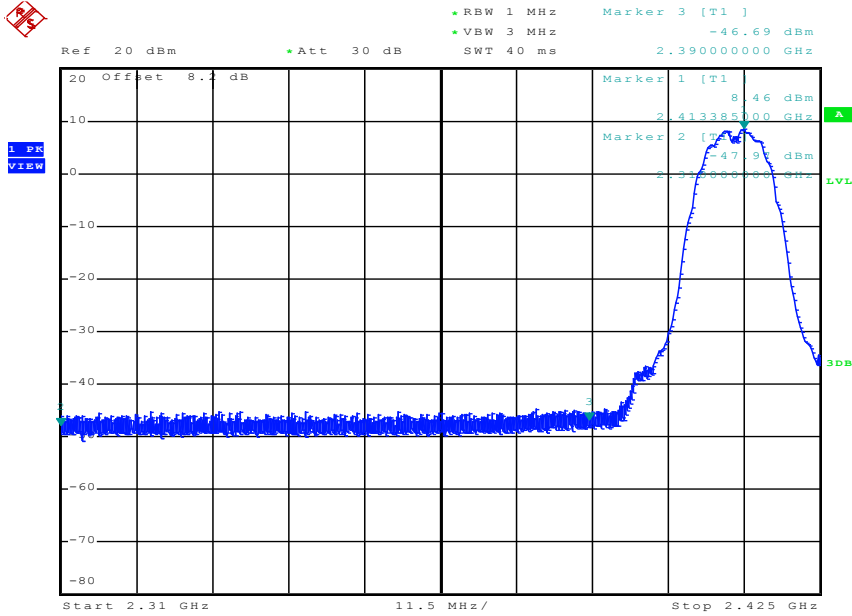
Date: 21.AUG.2019 18:44:43

## 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	-47.97	2.0	0	49.29	PEAK	74	PASS
	2412	Ant1	2310.0	-57.86	2.0	0	39.40	AV	54	PASS
	2412	Ant1	2390.0	-46.69	2.0	0	50.57	PEAK	74	PASS
	2412	Ant1	2390.0	-56.77	2.0	0	40.49	AV	54	PASS
	2462	Ant1	2483.5	-44.22	2.0	0	53.04	PEAK	74	PASS
	2462	Ant1	2483.5	-56.26	2.0	0	41.00	AV	54	PASS
	2462	Ant1	2500.0	-47.77	2.0	0	49.49	PEAK	74	PASS
	2462	Ant1	2500.0	-58.03	2.0	0	39.23	AV	54	PASS
11G	2412	Ant1	2310.0	-48.25	2.0	0	49.01	PEAK	74	PASS
	2412	Ant1	2310.0	-57.86	2.0	0	39.40	AV	54	PASS
	2412	Ant1	2390.0	-44.57	2.0	0	52.69	PEAK	74	PASS
	2412	Ant1	2390.0	-55.14	2.0	0	42.12	AV	54	PASS
	2462	Ant1	2483.5	-45.11	2.0	0	52.15	PEAK	74	PASS
	2462	Ant1	2483.5	-55.56	2.0	0	41.70	AV	54	PASS
	2462	Ant1	2500.0	-49.01	2.0	0	48.25	PEAK	74	PASS
	2462	Ant1	2500.0	-58.04	2.0	0	39.22	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-47.25	2.0	0	50.01	PEAK	74	PASS
	2412	Ant1	2310.0	-57.85	2.0	0	39.41	AV	54	PASS
	2412	Ant1	2390.0	-42.69	2.0	0	54.57	PEAK	74	PASS
	2412	Ant1	2390.0	-54.86	2.0	0	42.40	AV	54	PASS
	2462	Ant1	2483.5	-45.10	2.0	0	52.16	PEAK	74	PASS
	2462	Ant1	2483.5	-55.17	2.0	0	42.09	AV	54	PASS
	2462	Ant1	2500.0	-47.30	2.0	0	49.96	PEAK	74	PASS
	2462	Ant1	2500.0	-58.05	2.0	0	39.21	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-48.55	2.0	0	48.71	PEAK	74	PASS
	2422	Ant1	2310.0	-57.86	2.0	0	39.40	AV	54	PASS

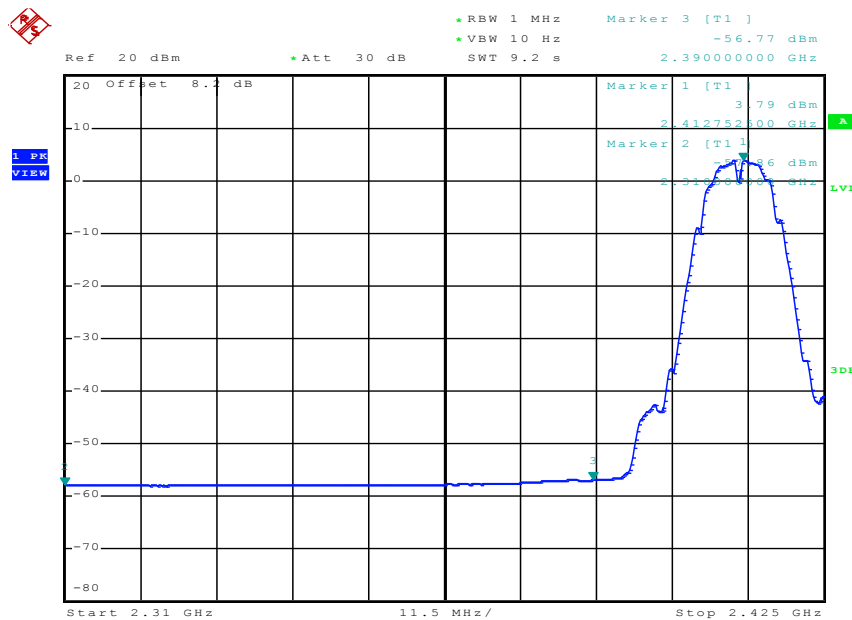
	2422	Ant1	2390.0	-37.30	2.0	0	59.96	PEAK	74	PASS
	2422	Ant1	2390.0	-55.80	2.0	0	41.46	AV	54	PASS
	2452	Ant1	2483.5	-37.94	2.0	0	59.32	PEAK	74	PASS
	2452	Ant1	2483.5	-55.78	2.0	0	41.48	AV	54	PASS
	2452	Ant1	2500.0	-46.84	2.0	0	50.42	PEAK	74	PASS
	2452	Ant1	2500.0	-57.92	2.0	0	39.34	AV	54	PASS

Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



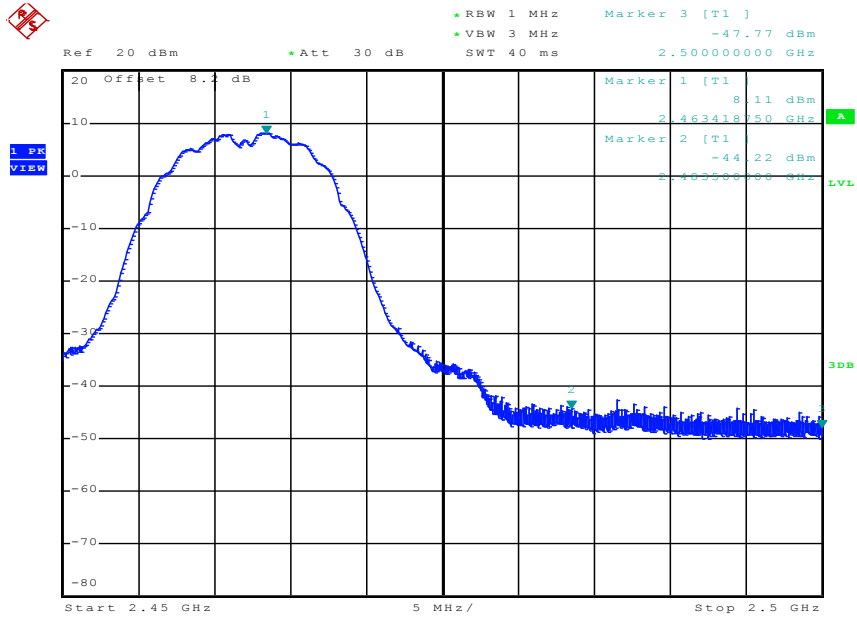
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Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



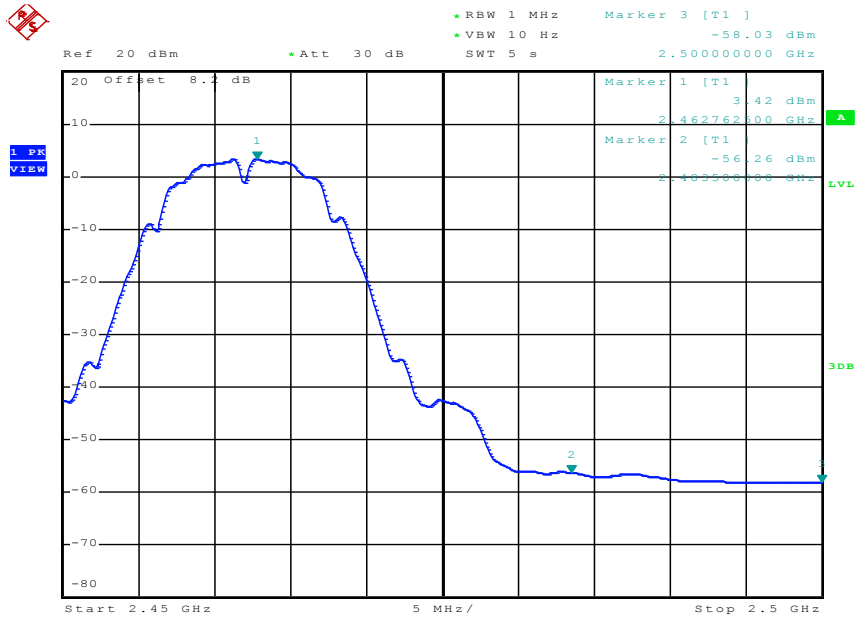
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Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



Date: 21.AUG.2019 18:20:13

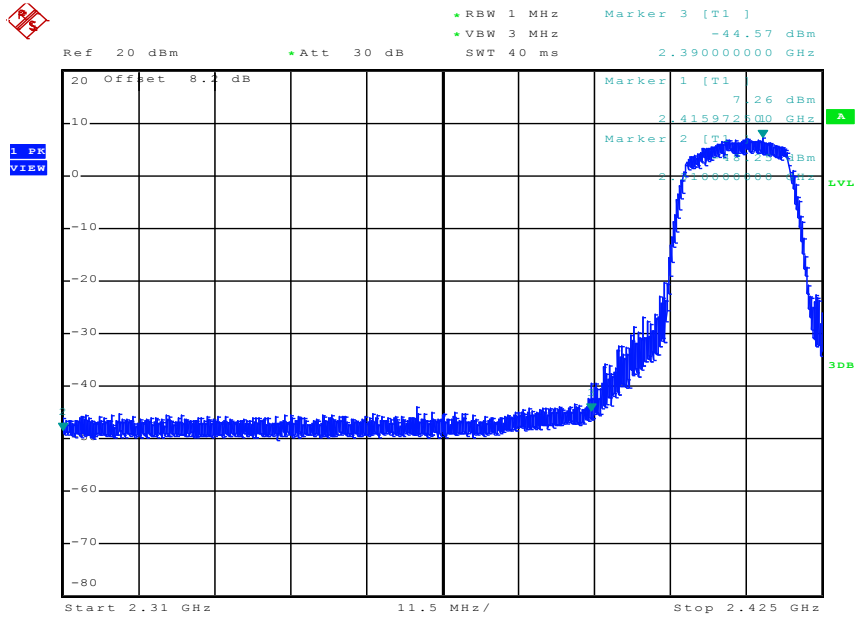
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



Date: 21.AUG.2019 18:20:28

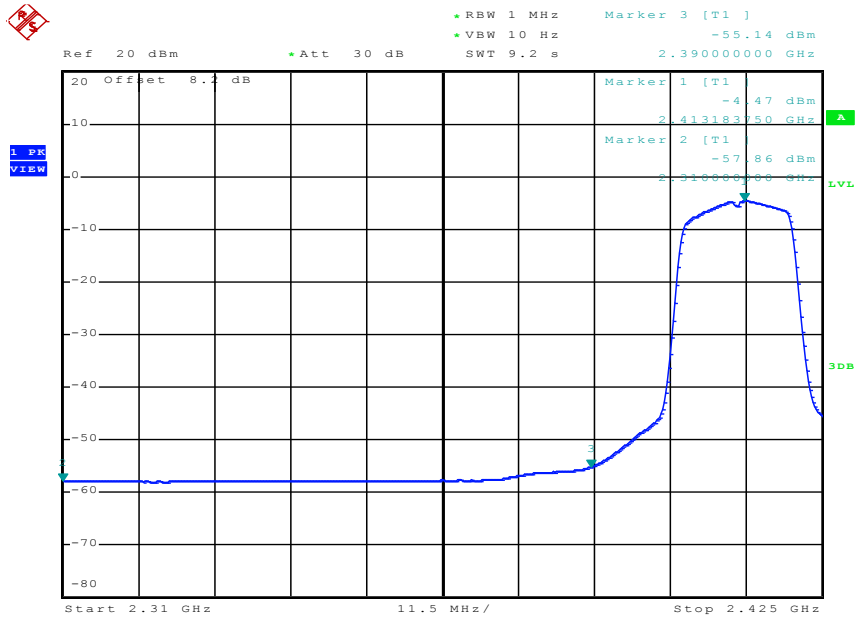


Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



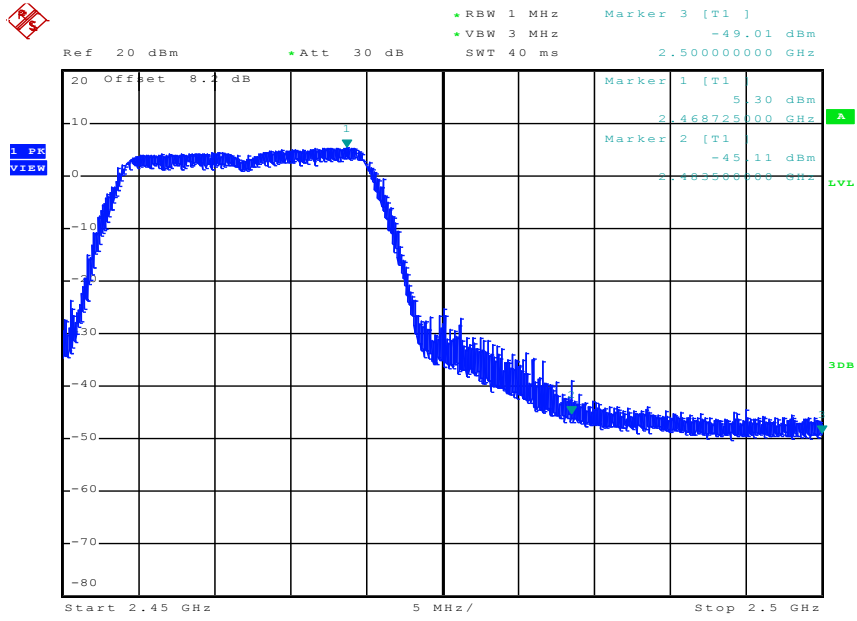
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Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



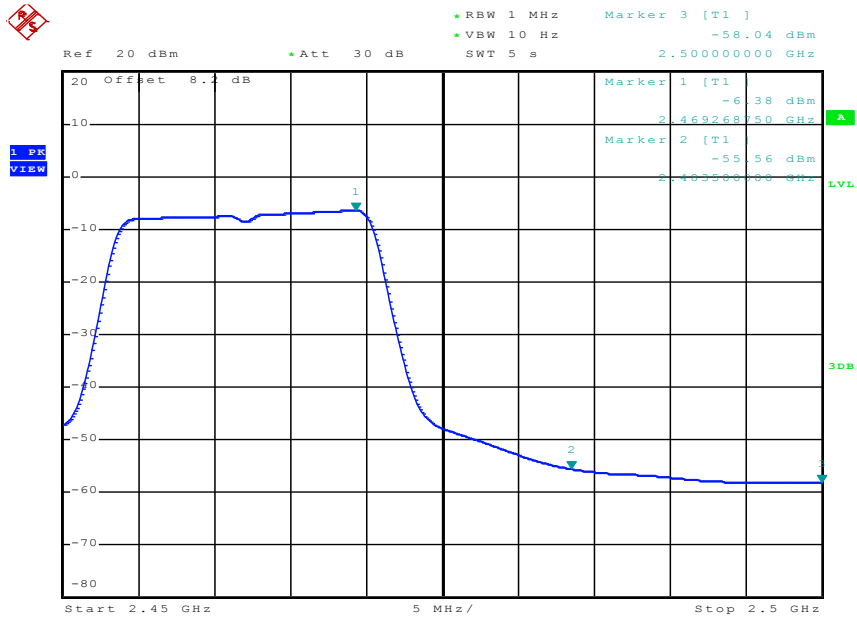
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Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



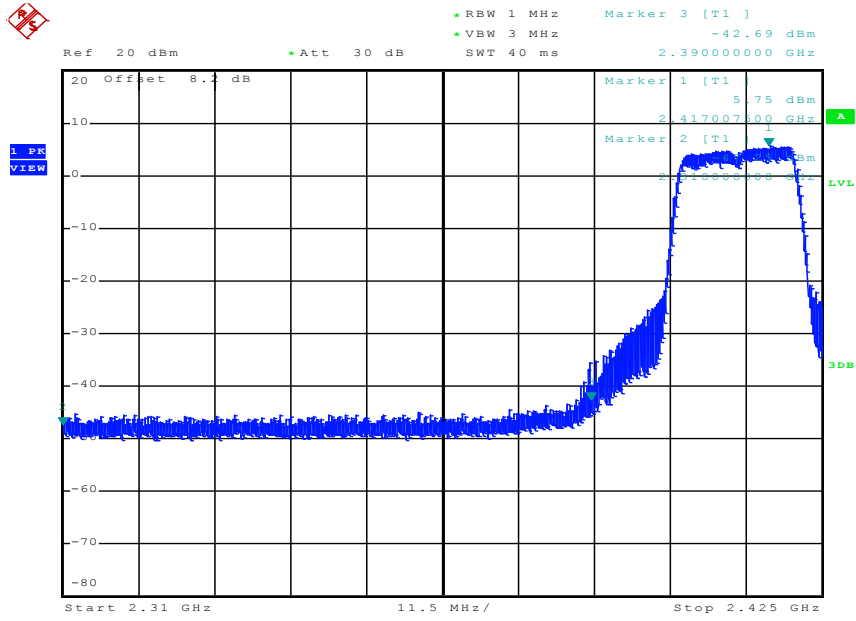
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Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



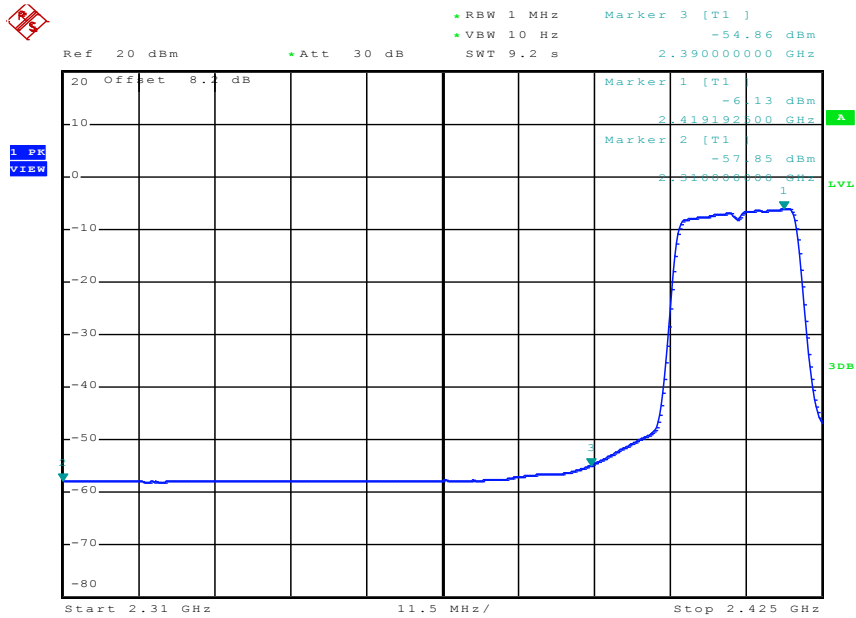
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Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



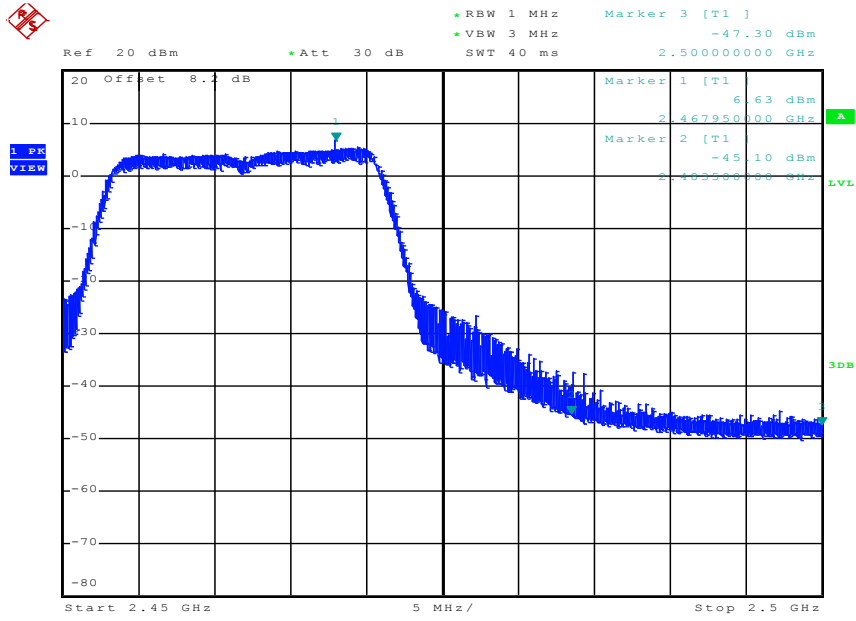
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Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



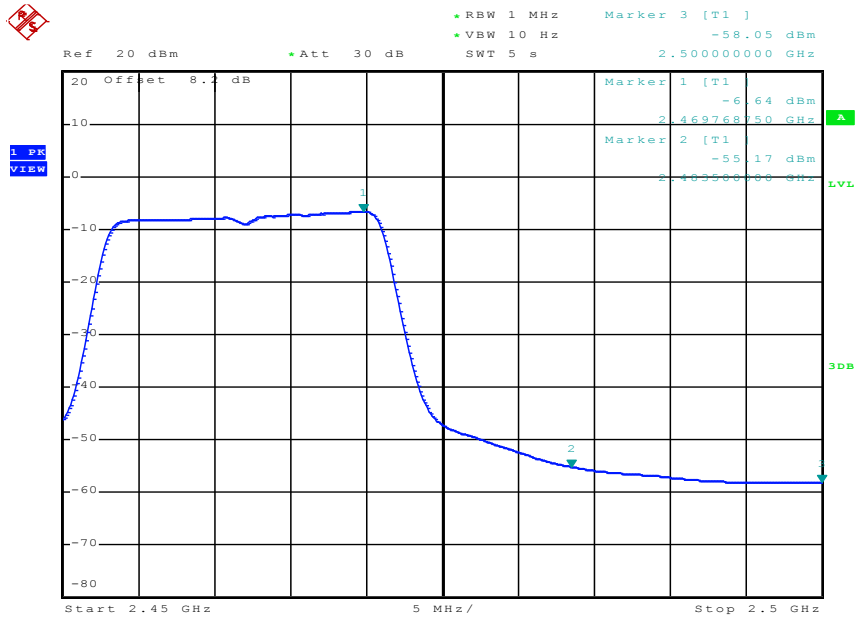
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Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



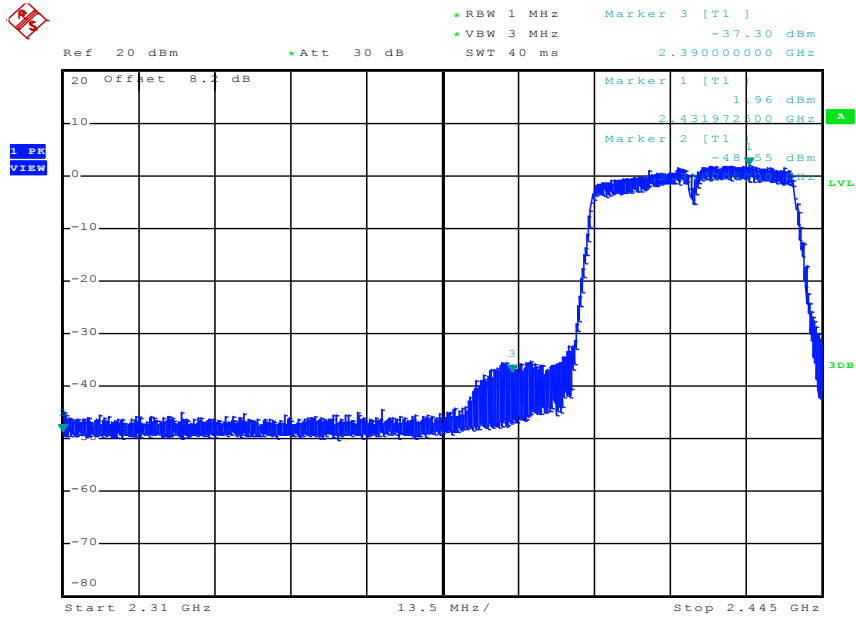
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Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV



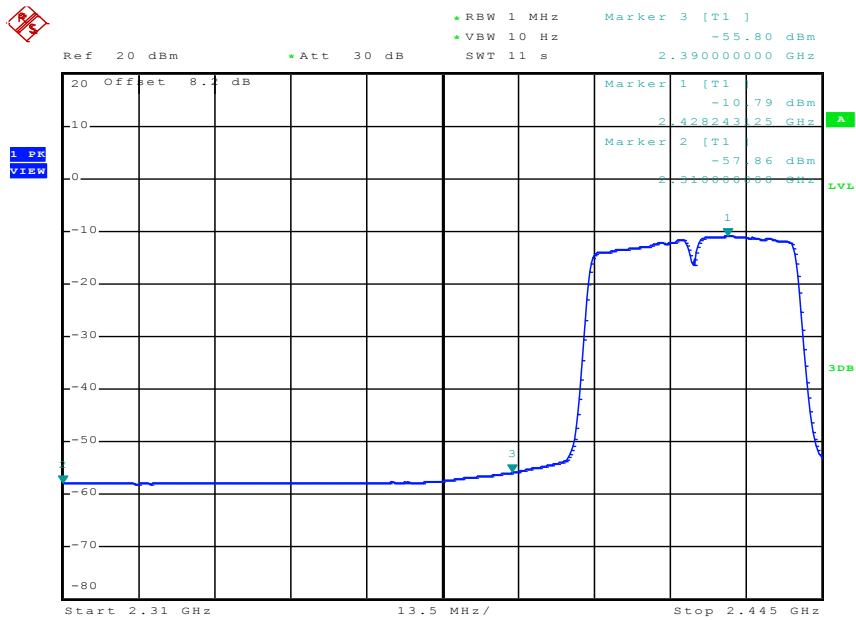
Date: 21.AUG.2019 18:37:50

Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



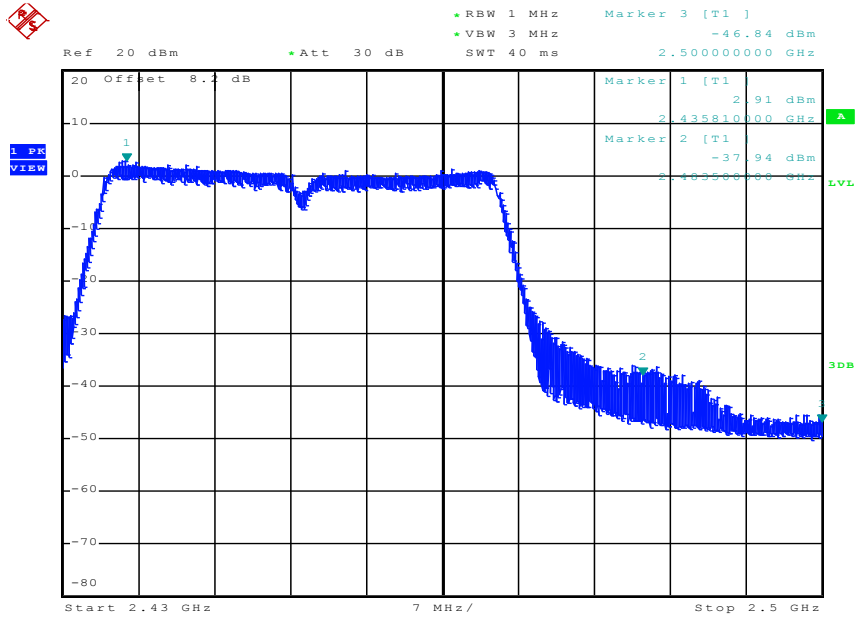
Date: 21.AUG.2019 18:40:35

Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



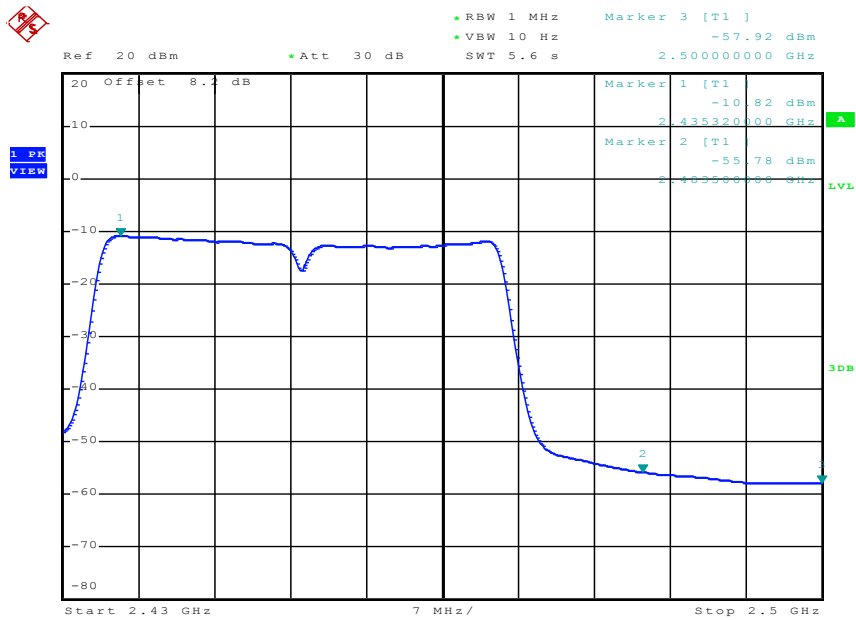
Date: 21.AUG.2019 18:41:15

Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



Date: 21.AUG.2019 18:45:35

Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV



Date: 21.AUG.2019 18:46:31