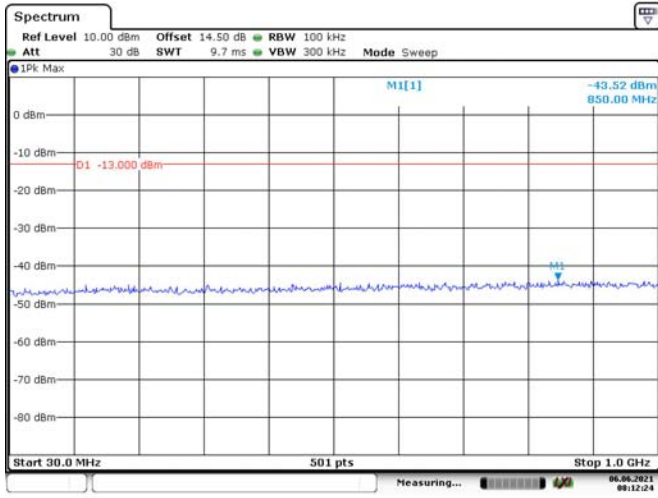
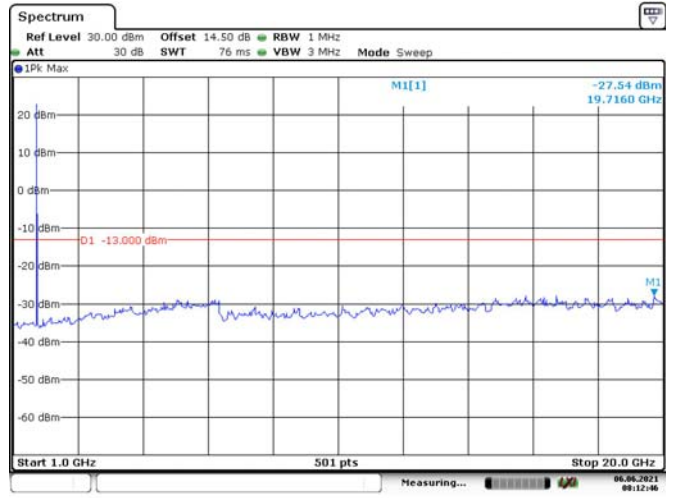


LTE Band 4:

1.4M, QPSK, Low Channel

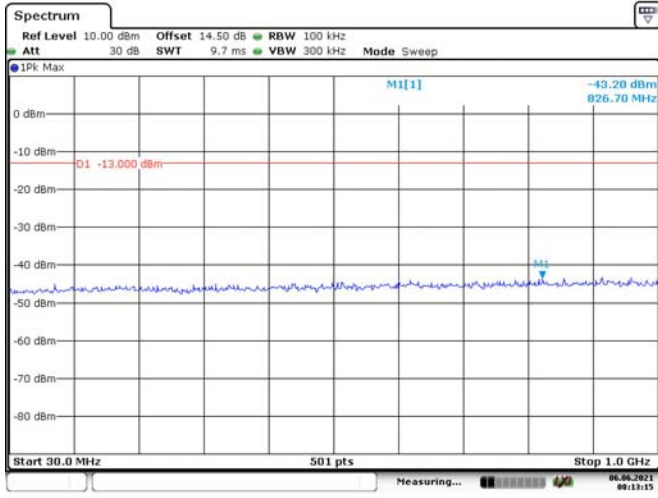


Date: 6 JUN 2021 08:12:24

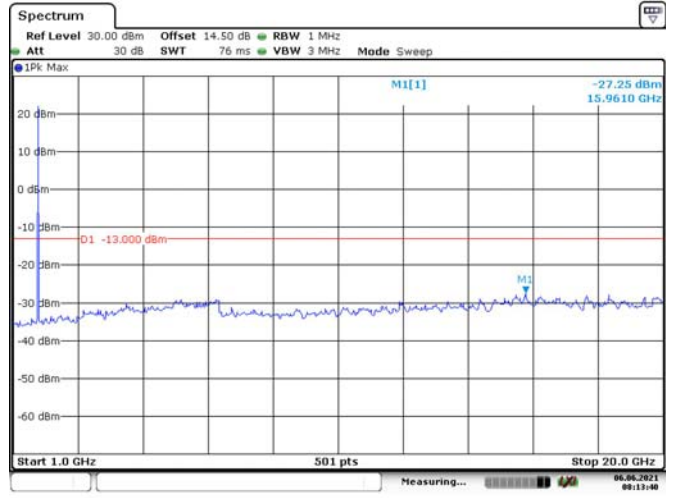


Date: 6 JUN 2021 08:12:46

1.4M, QPSK, Middle Channel

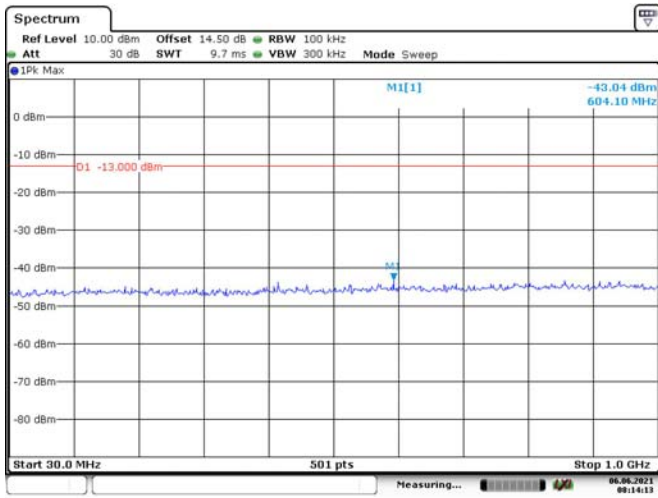


Date: 6 JUN 2021 08:13:15

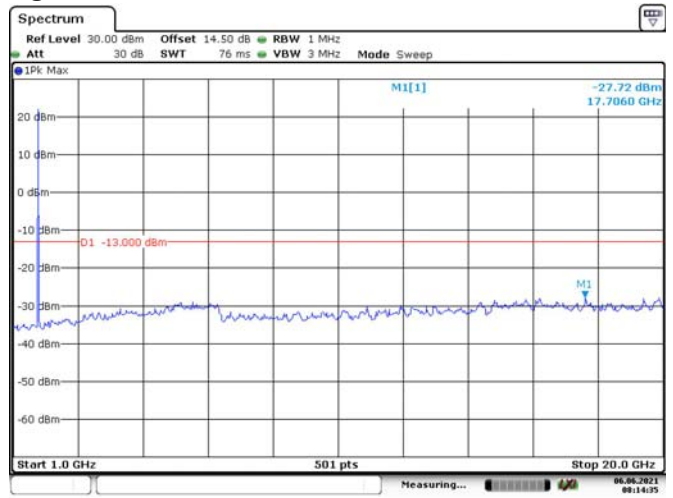


Date: 6 JUN 2021 08:13:40

1.4M, QPSK, High Channel

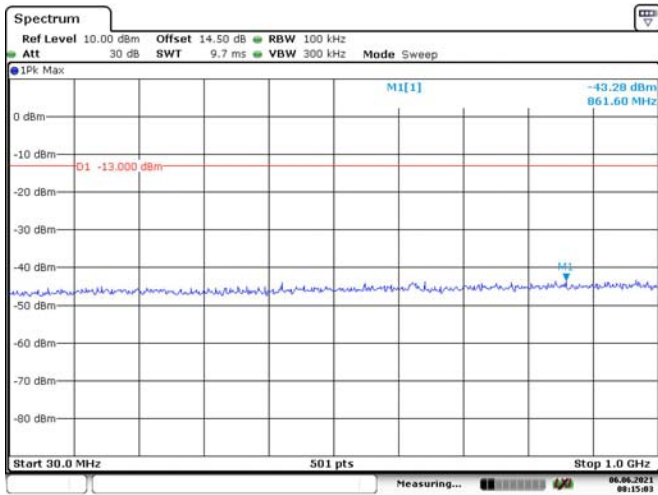


Date: 6 JUN 2021 08:14:13

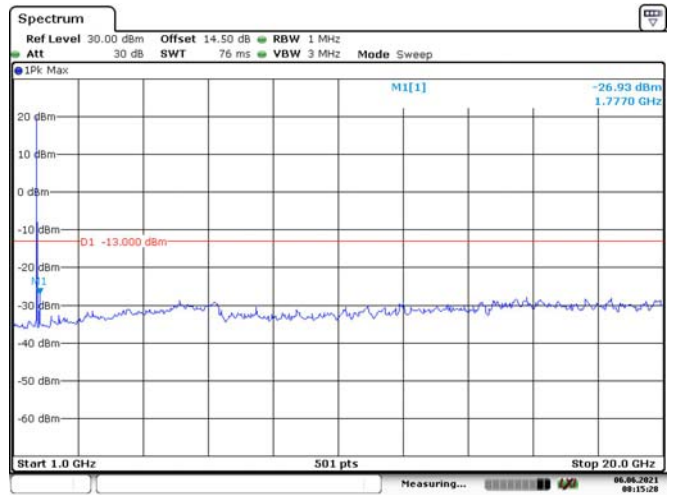


Date: 6 JUN 2021 08:14:35

### 3M, QPSK, Low Channel

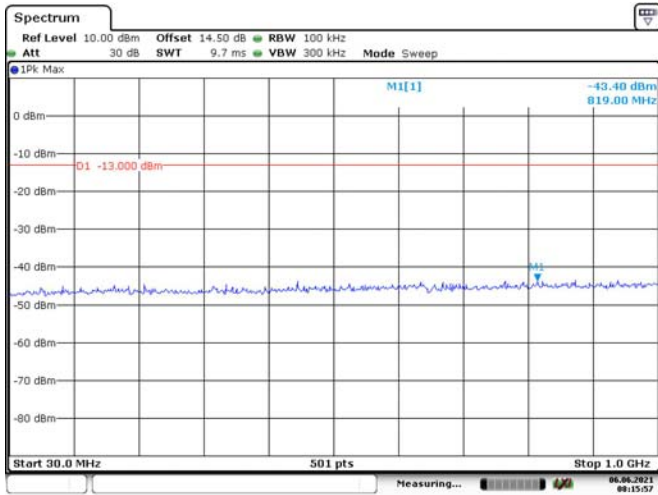


Date: 6 JUN 2021 08:15:03

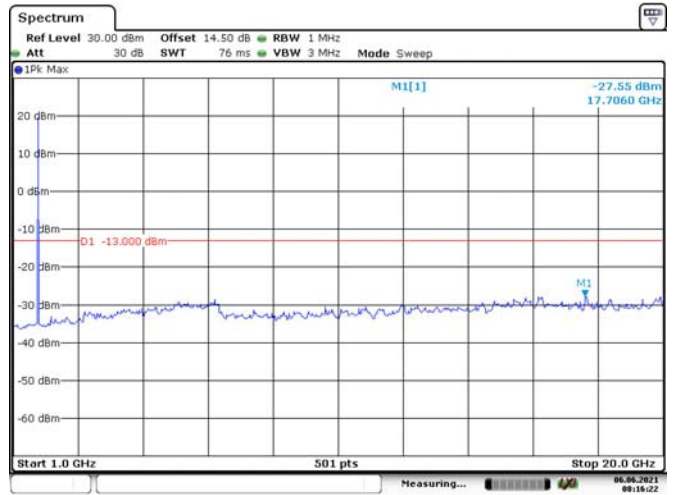


Date: 6 JUN 2021 08:15:28

### 3M, QPSK, Middle Channel

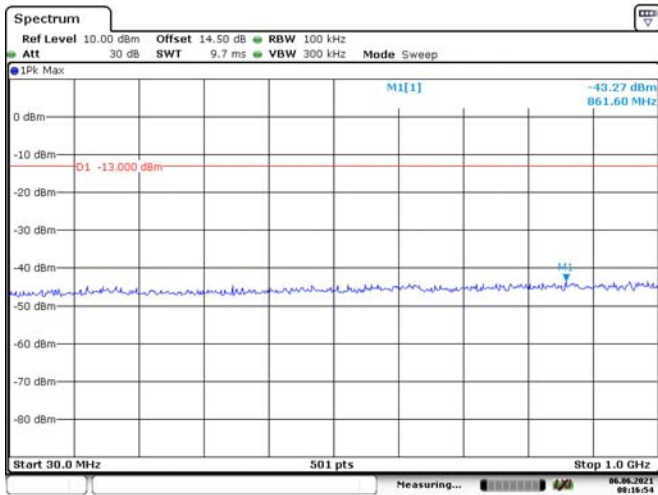


Date: 6 JUN 2021 08:15:57

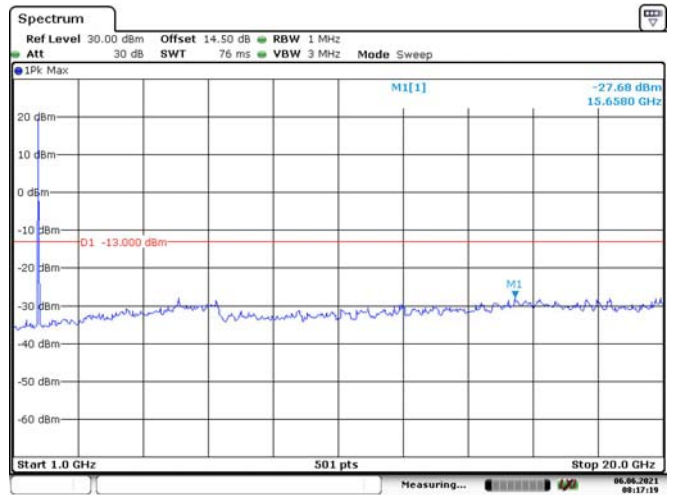


Date: 6 JUN 2021 08:16:22

### 3M, QPSK, High Channel

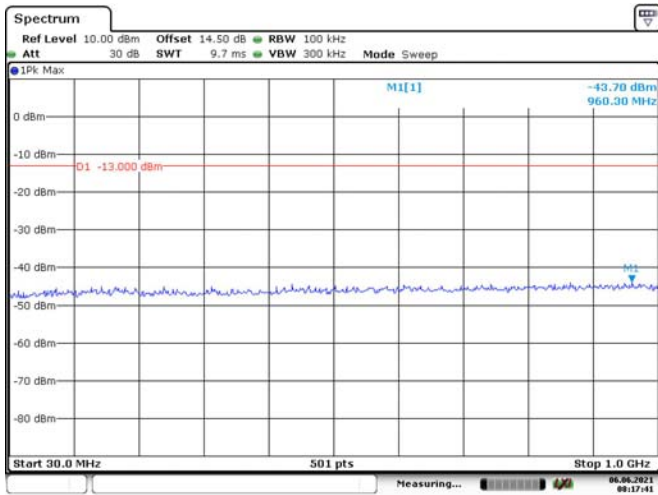


Date: 6 JUN 2021 08:16:54

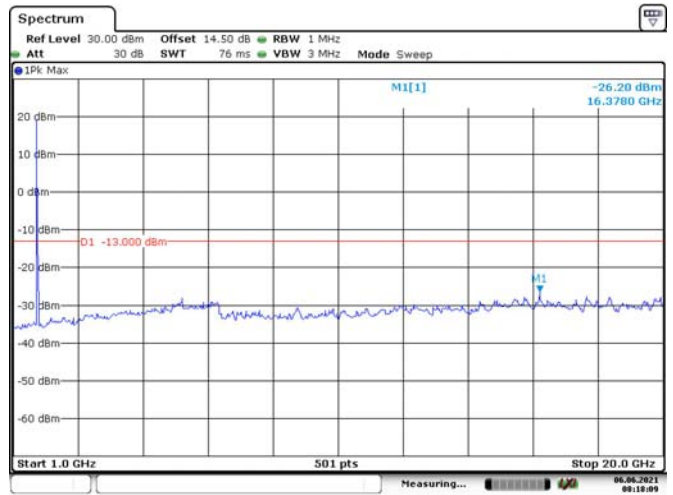


Date: 6 JUN 2021 08:17:19

### 5M, QPSK, Low Channel

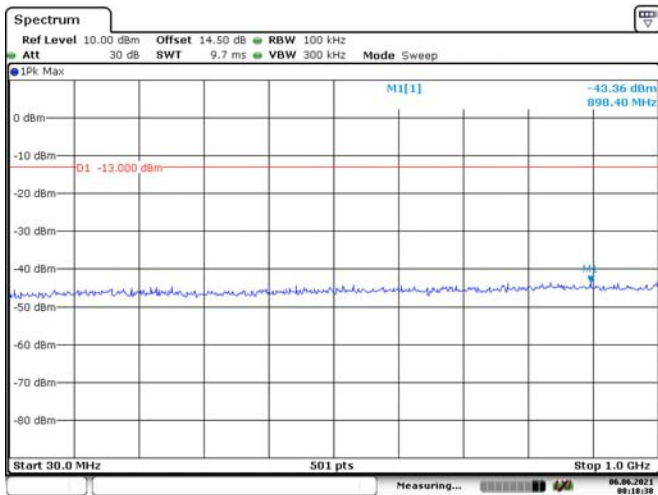


Date: 6 JUN. 2021 08:17:41

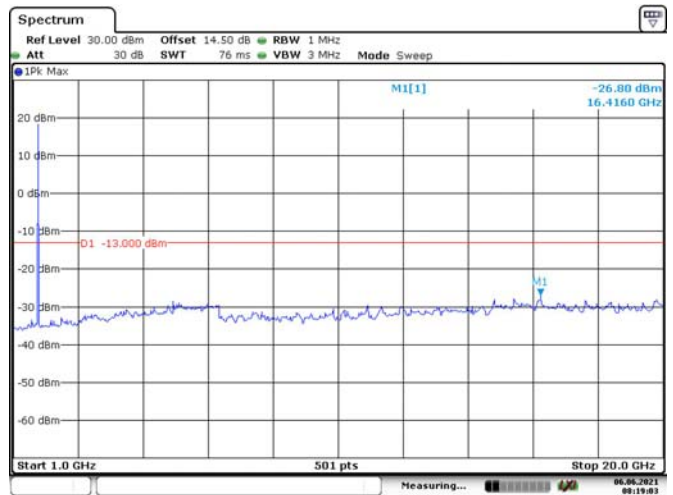


Date: 6 JUN. 2021 08:18:09

### 5M, QPSK, Middle Channel

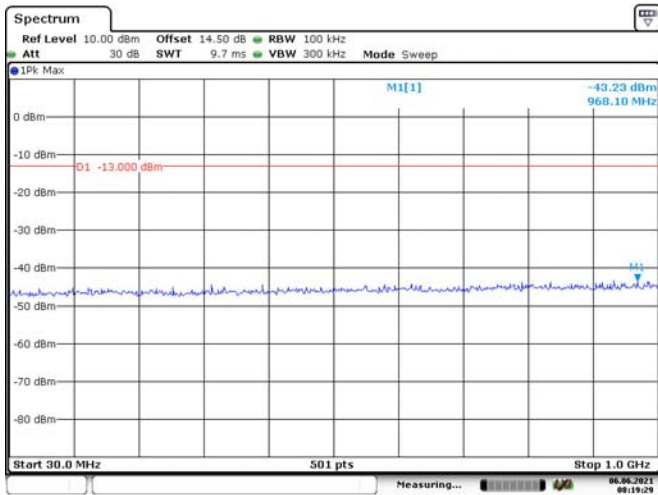


Date: 6 JUN. 2021 08:18:38

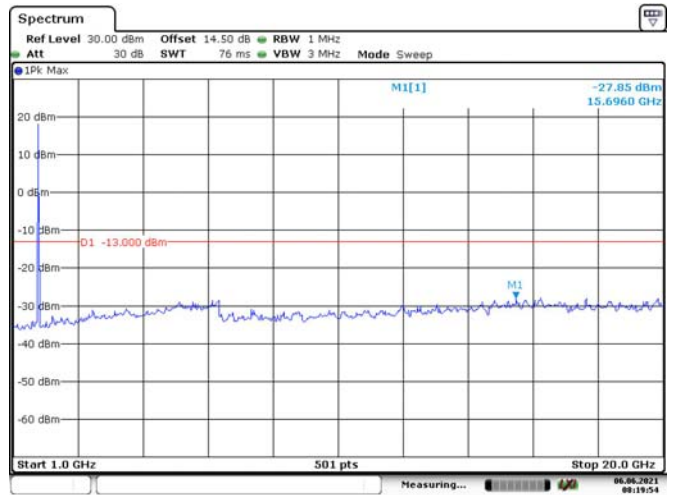


Date: 6 JUN. 2021 08:19:03

### 5M, QPSK, High Channel

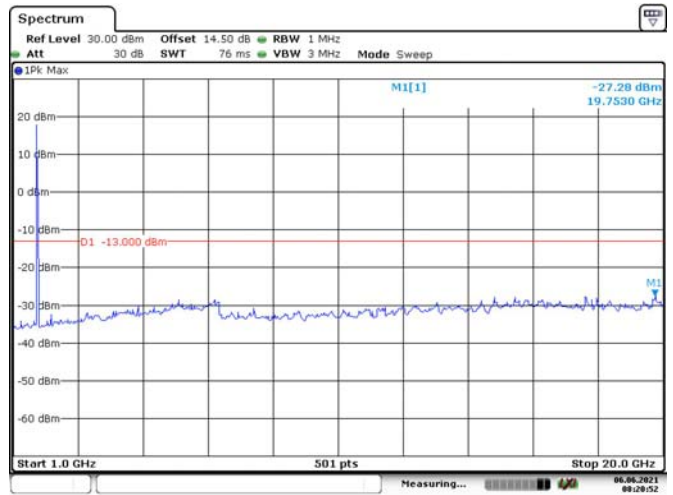
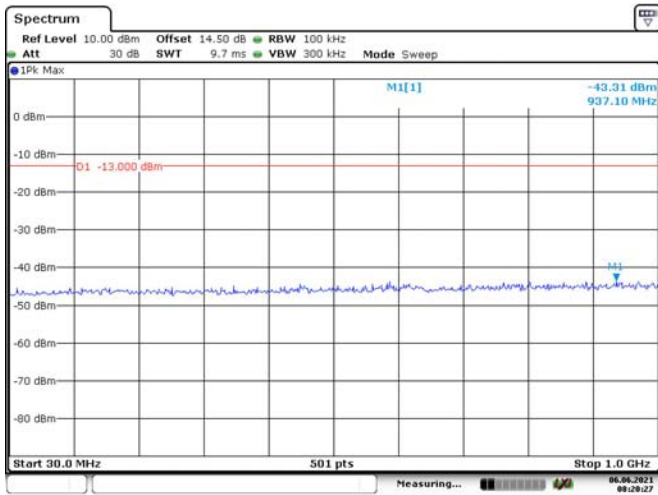


Date: 6 JUN. 2021 08:19:29

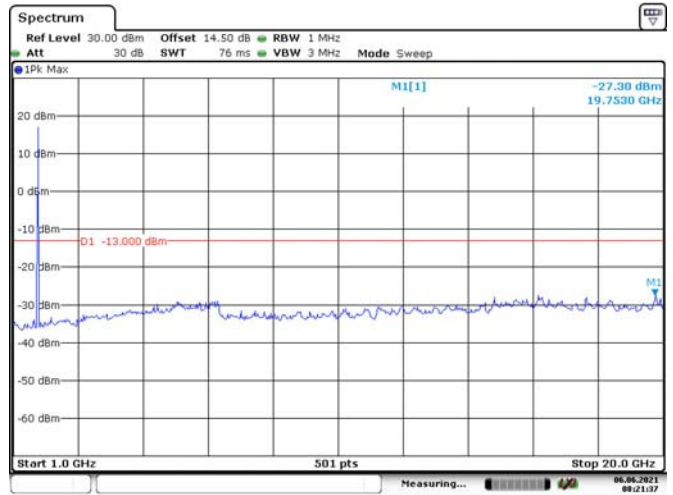
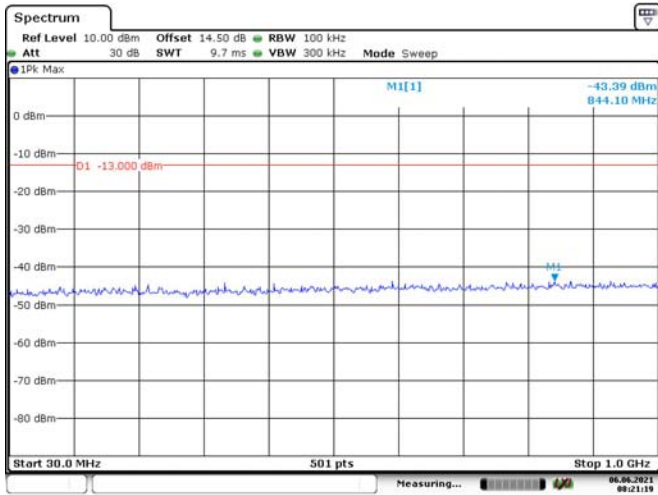


Date: 6 JUN. 2021 08:19:54

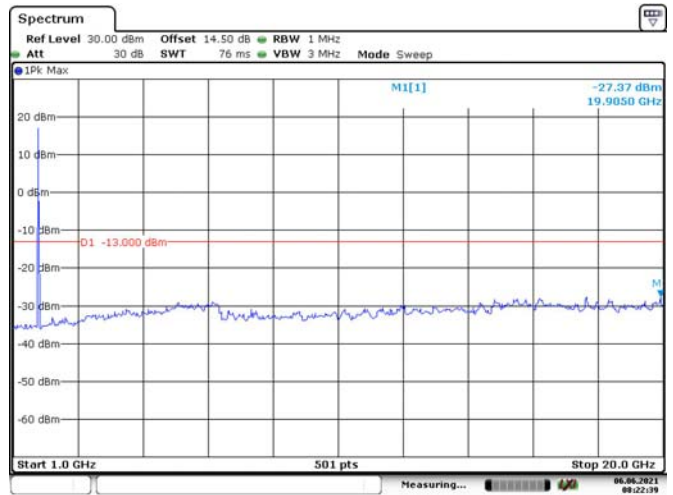
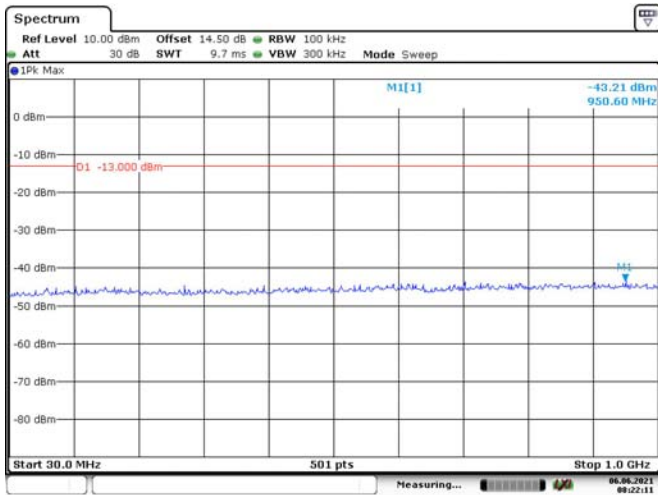
10M, QPSK, Low Channel



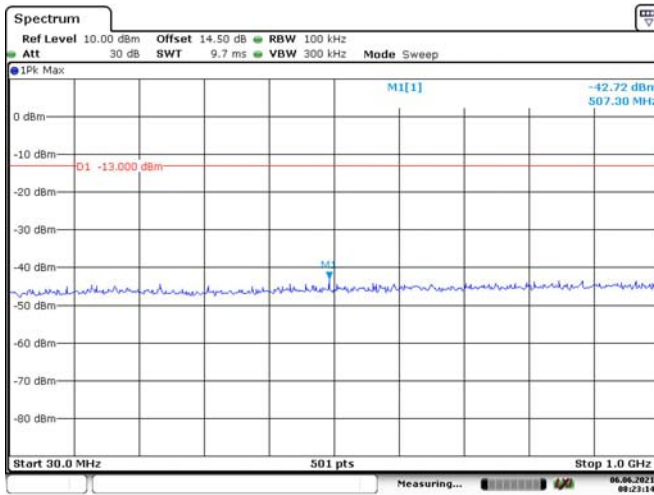
10M, QPSK, Middle Channel



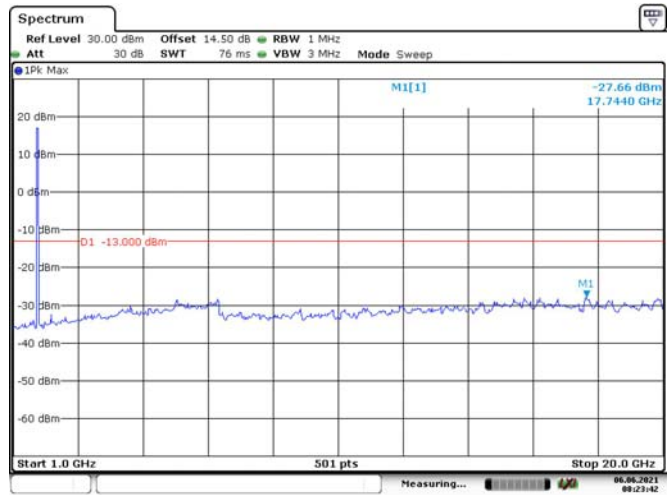
10M, QPSK, High Channel



15M, QPSK, Low Channel

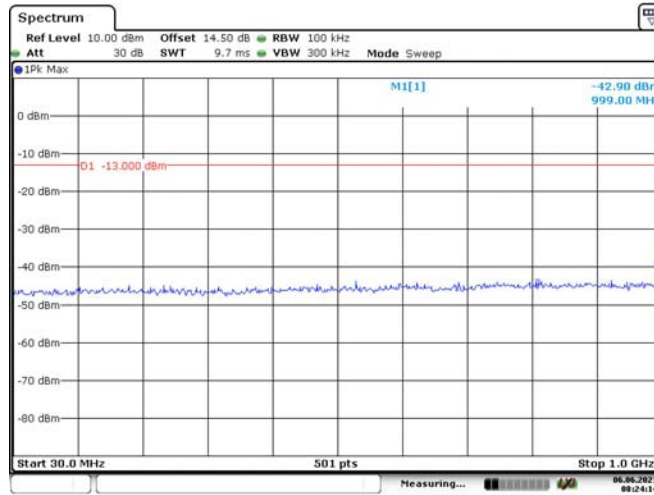


Date: 6 JUN 2021 08:23:14

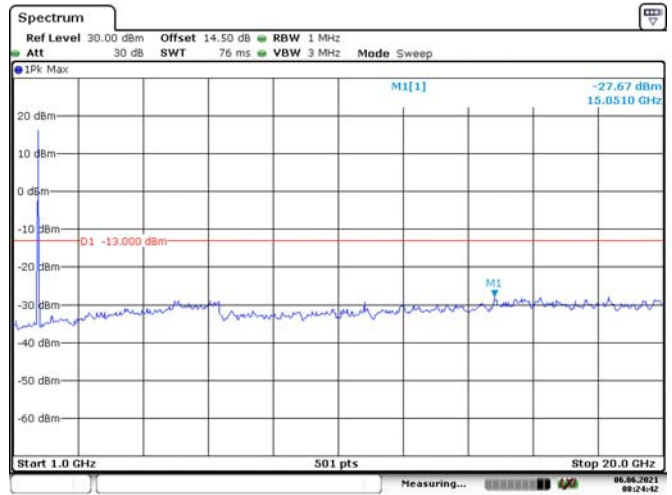


Date: 6 JUN 2021 08:23:42

15M, QPSK, Middle Channel

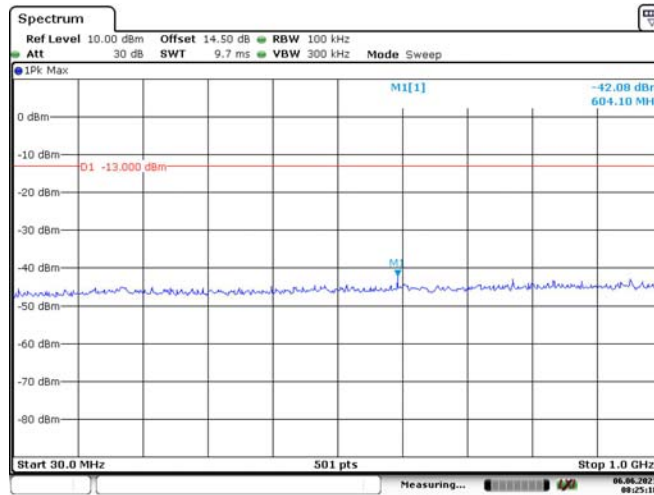


Date: 6 JUN 2021 08:24:14

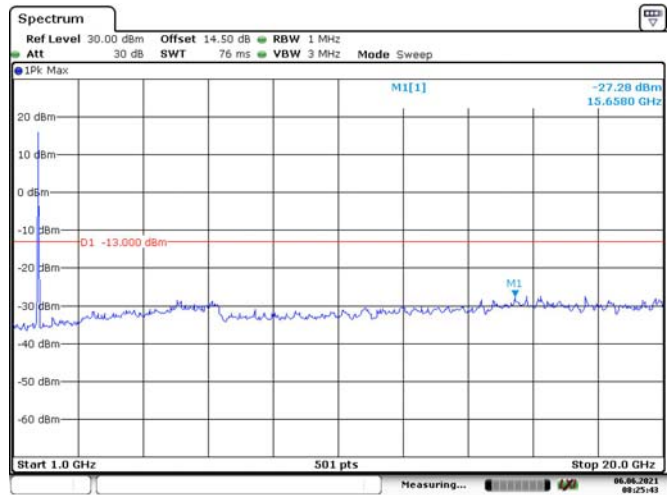


Date: 6 JUN 2021 08:24:42

15M, QPSK, High Channel

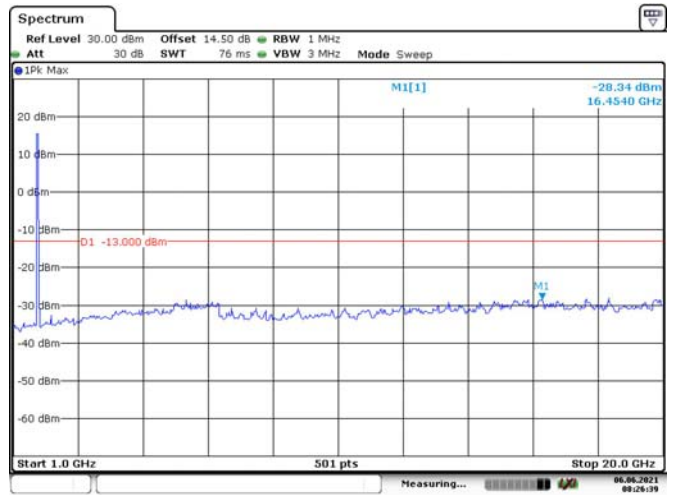
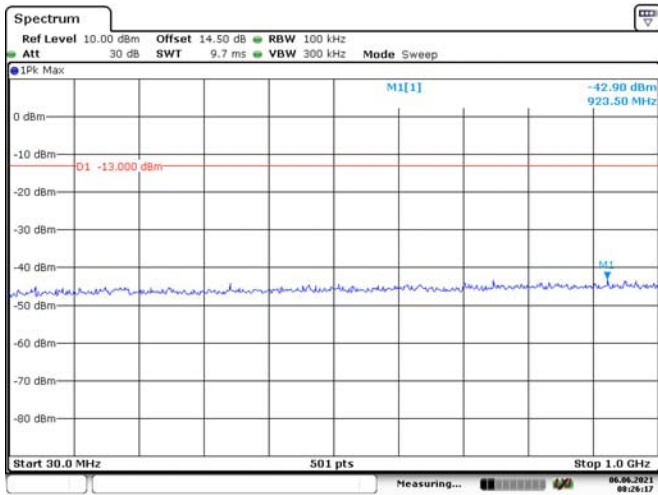


Date: 6 JUN 2021 08:25:18

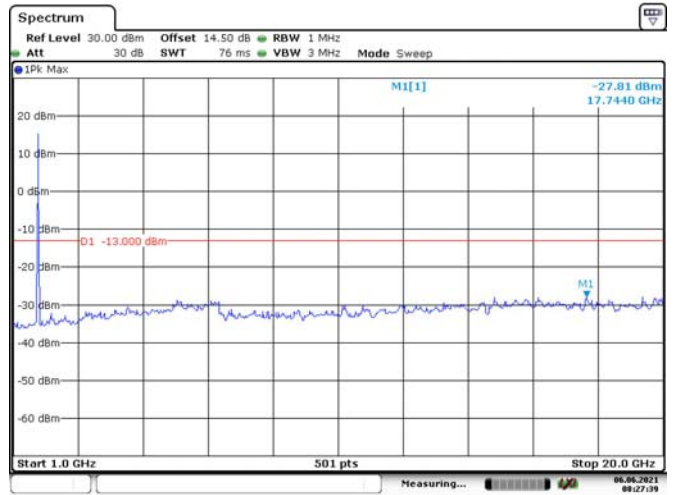
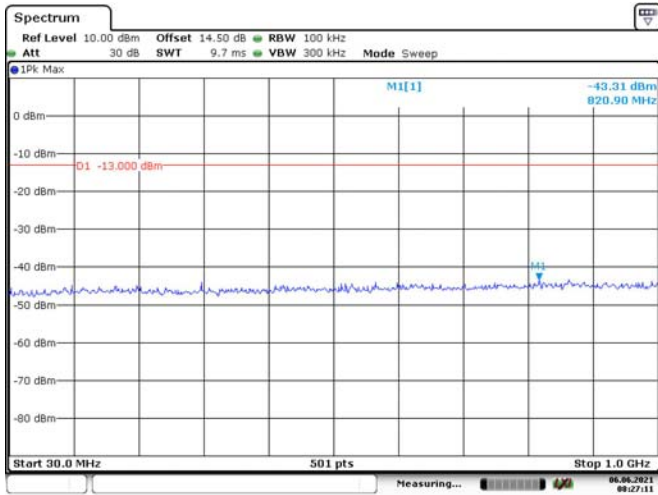


Date: 6 JUN 2021 08:25:43

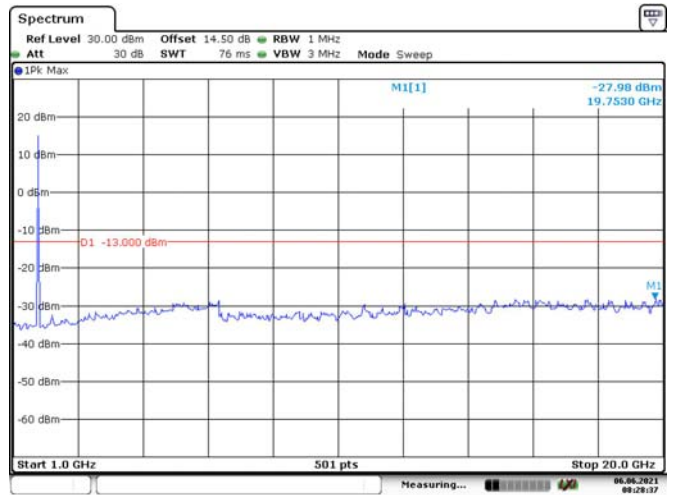
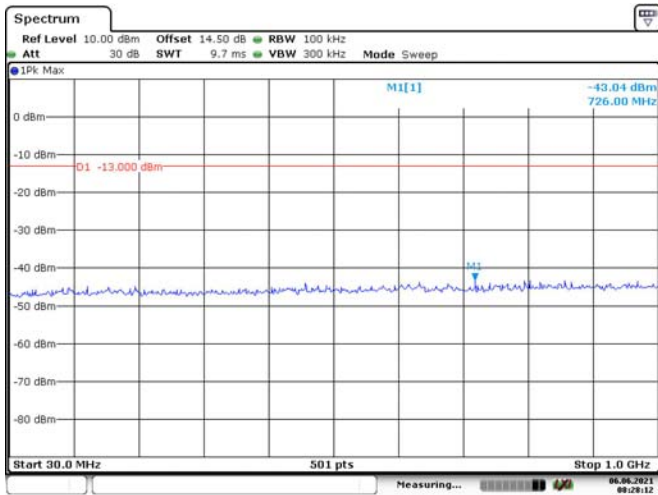
20M, QPSK, Low Channel



20M, QPSK, Middle Channel

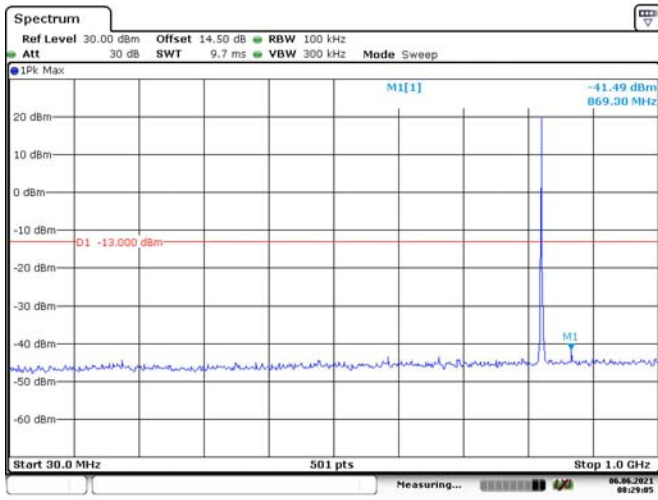


20M, QPSK, High Channel

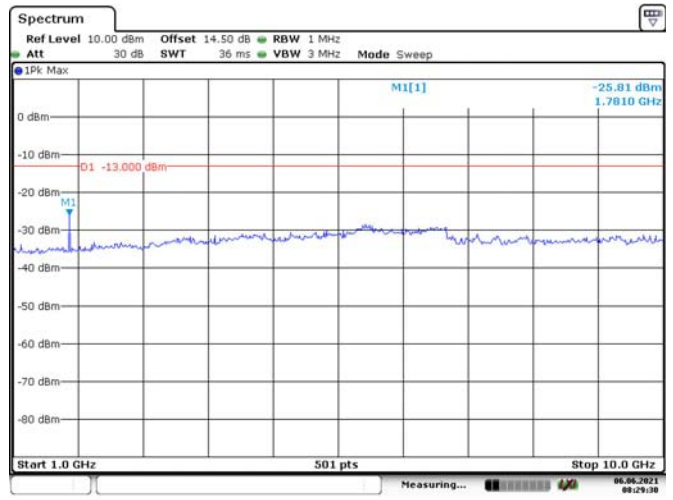


LTE Band 5:

1.4M, QPSK, Low Channel

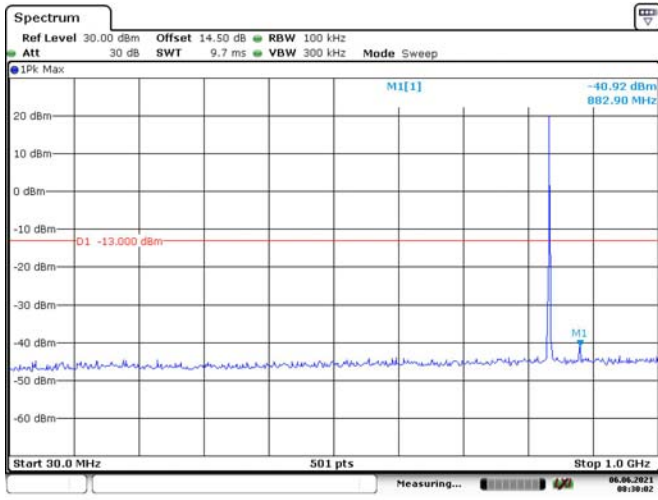


Date: 6 JUN 2021 08:29:05

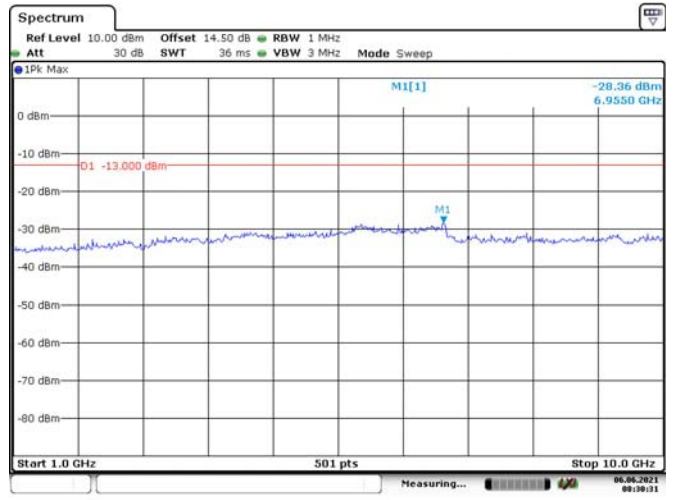


Date: 6 JUN 2021 08:29:30

1.4M, QPSK, Middle Channel

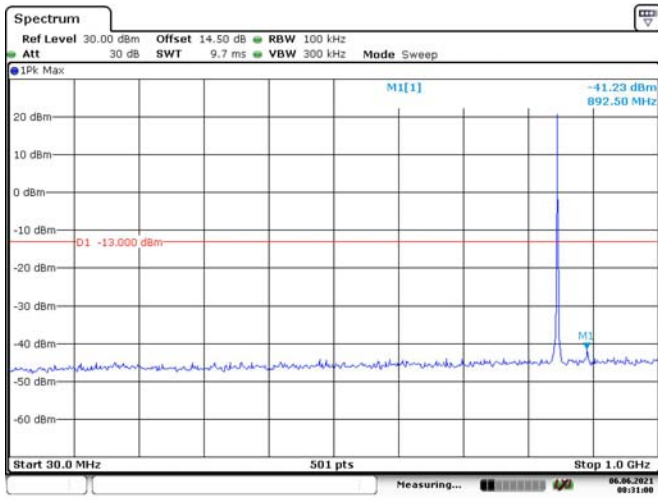


Date: 6 JUN 2021 08:30:03

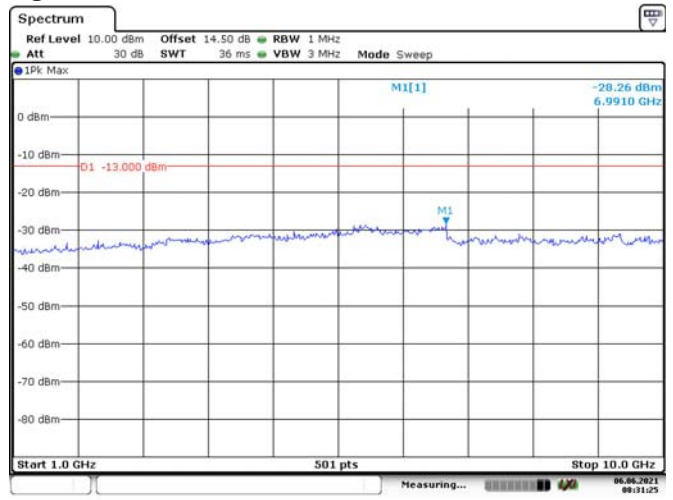


Date: 6 JUN 2021 08:30:31

1.4M, QPSK, High Channel

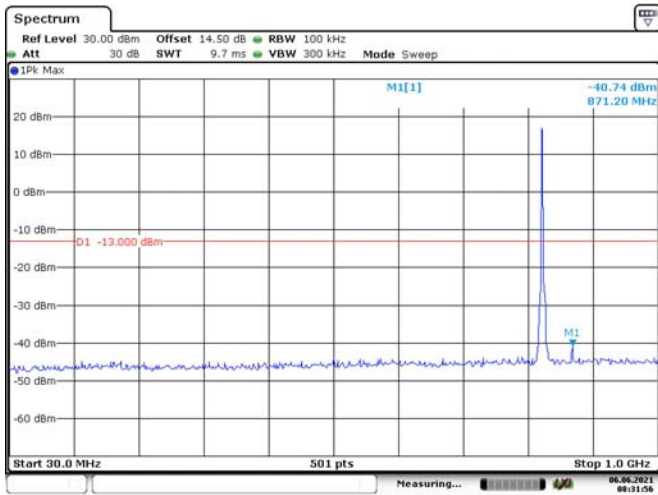


Date: 6 JUN 2021 08:31:00

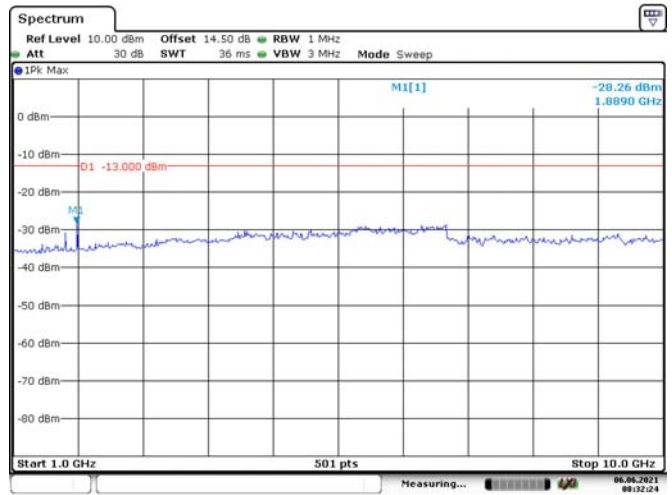


Date: 6 JUN 2021 08:31:25

### 3M, QPSK, Low Channel

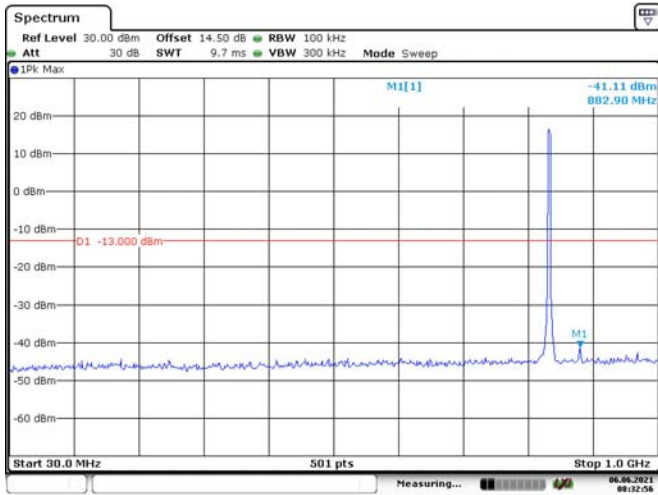


Date: 6 JUN. 2021 08:31:56

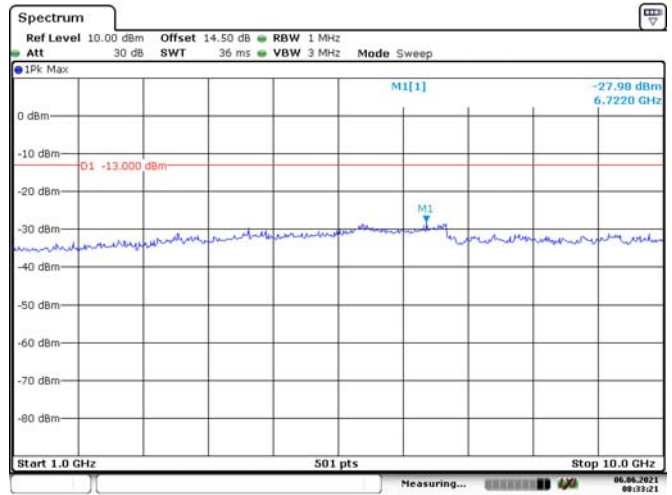


Date: 6 JUN. 2021 08:32:24

### 3M, QPSK, Middle Channel

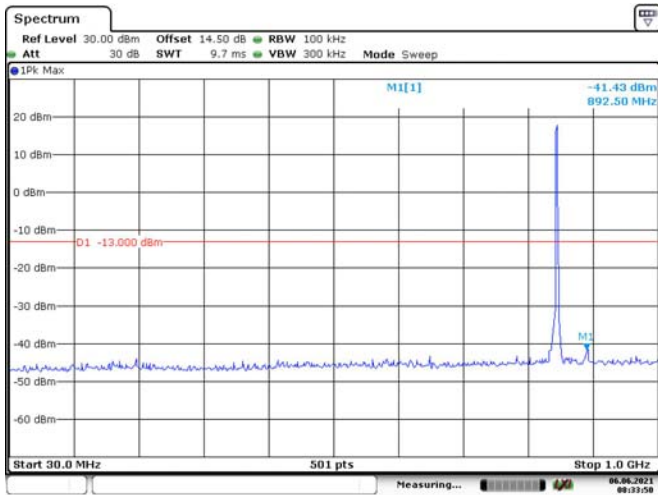


Date: 6 JUN. 2021 08:32:57

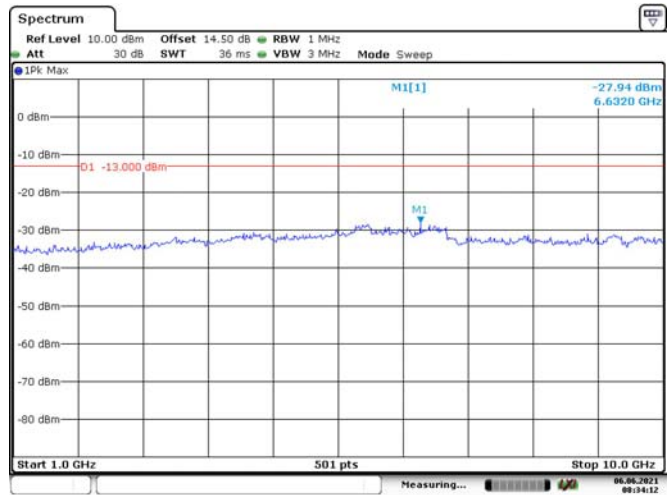


Date: 6 JUN. 2021 08:33:22

### 3M, QPSK, High Channel



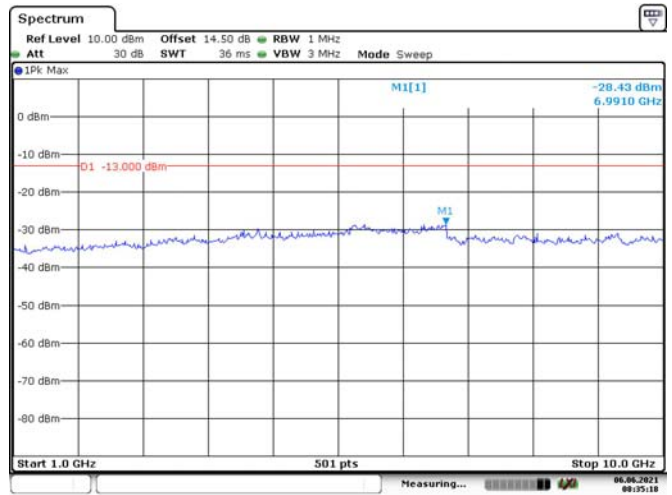
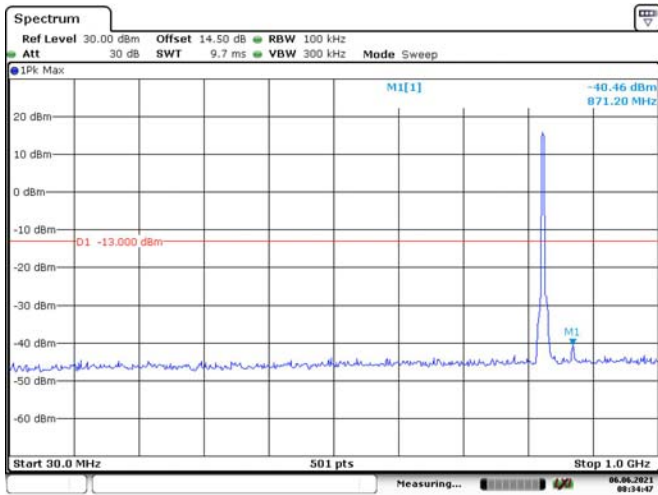
Date: 6 JUN. 2021 08:33:51



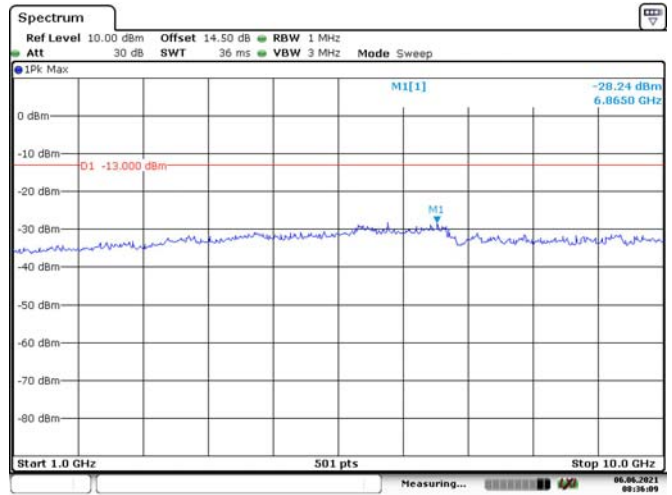
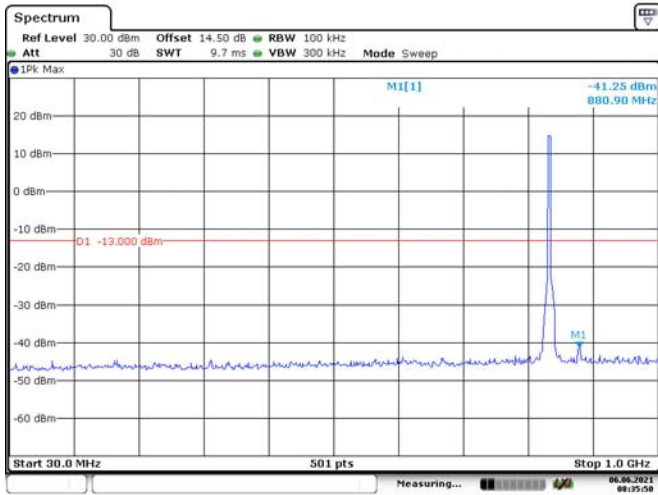
Date: 6 JUN. 2021 08:34:12



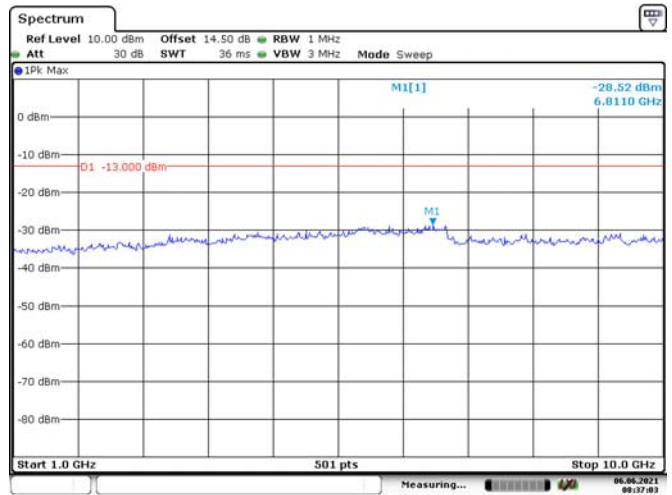
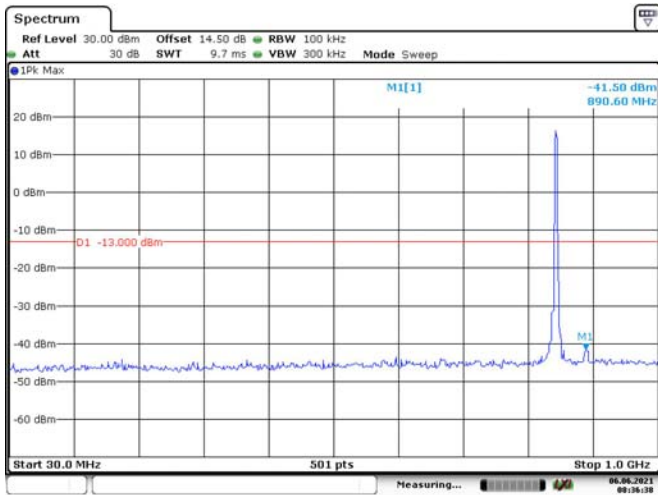
### 5M, QPSK, Low Channel



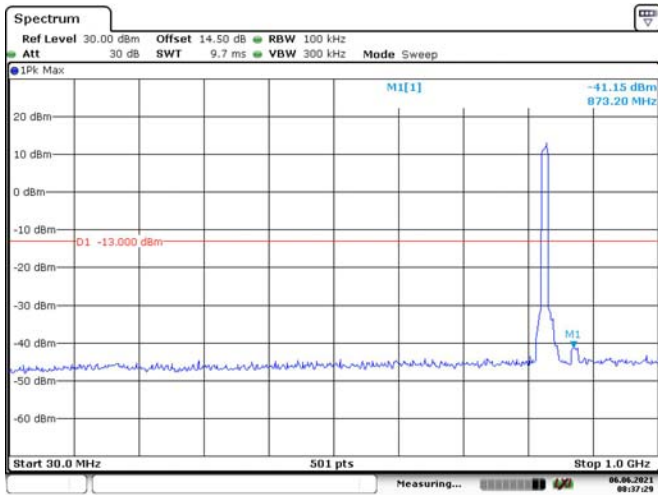
### 5M, QPSK, Middle Channel



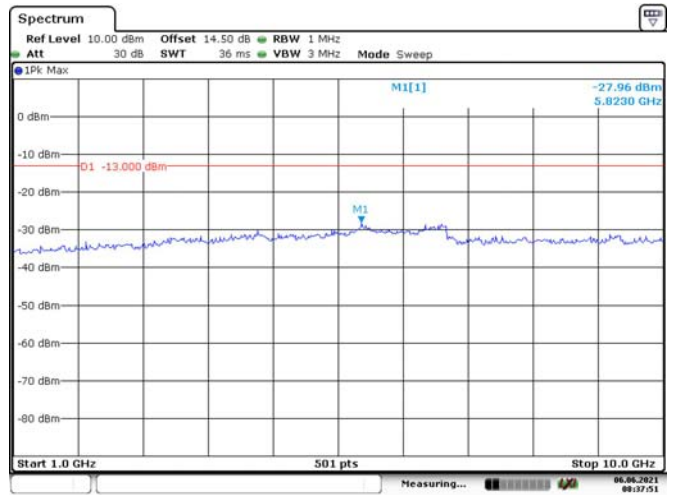
### 5M, QPSK, High Channel



### 10M, QPSK, Low Channel

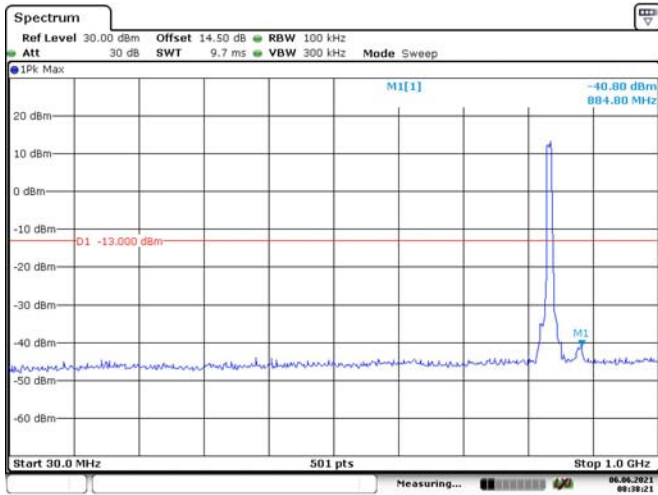


Date: 6, JUN, 2021 08:37:29

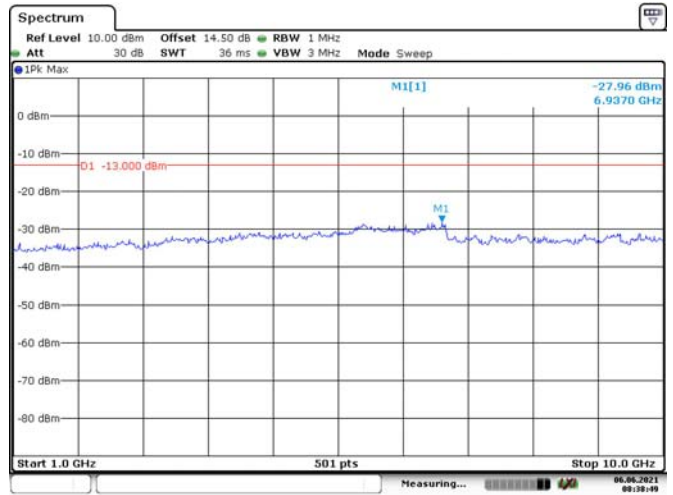


Date: 6, JUN, 2021 08:37:51

### 10M, QPSK, Middle Channel

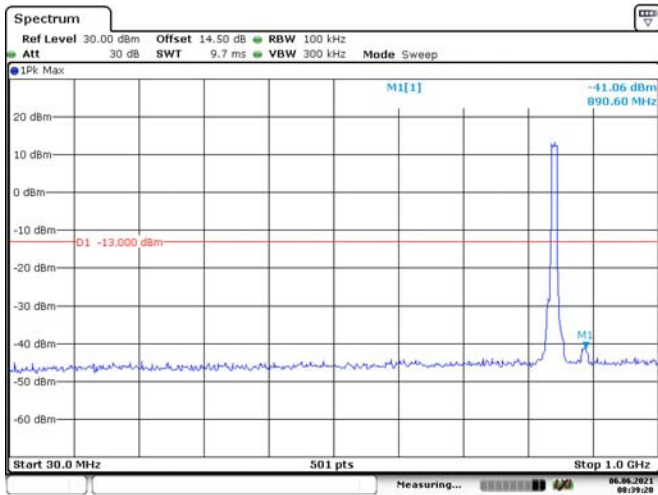


Date: 6, JUN, 2021 08:38:22

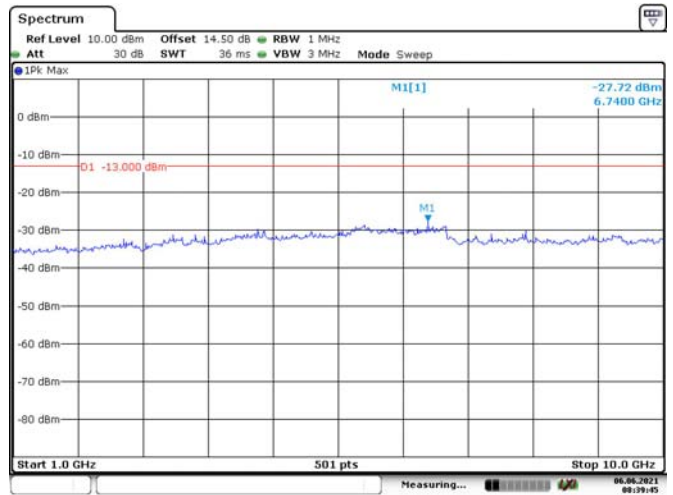


Date: 6, JUN, 2021 08:38:50

### 10M, QPSK, High Channel



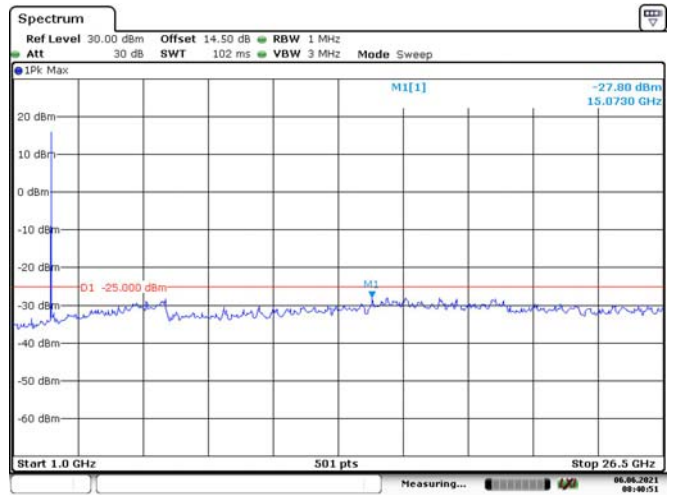
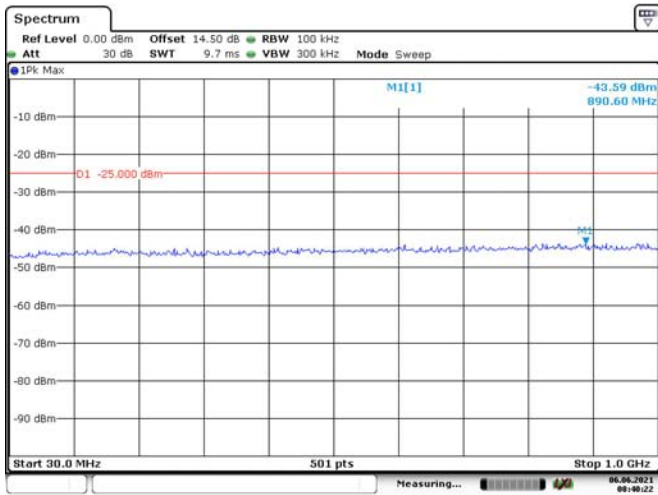
Date: 6, JUN, 2021 08:39:20



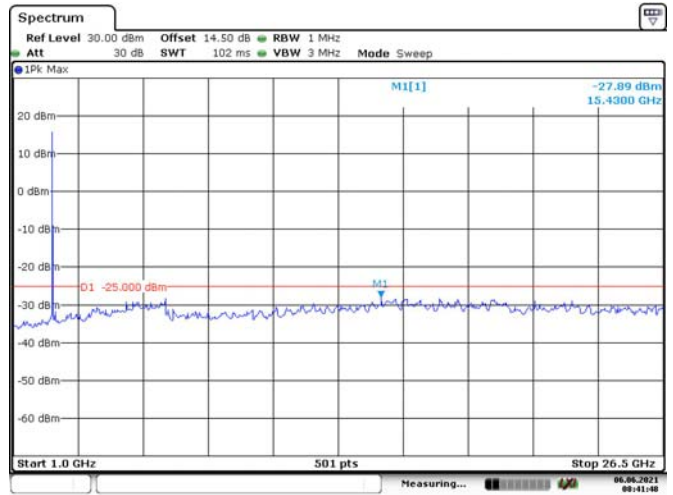
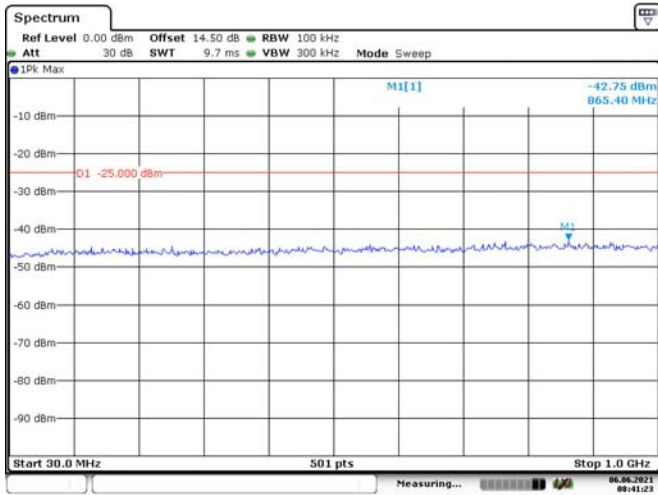
Date: 6, JUN, 2021 08:39:45

LTE Band 7:

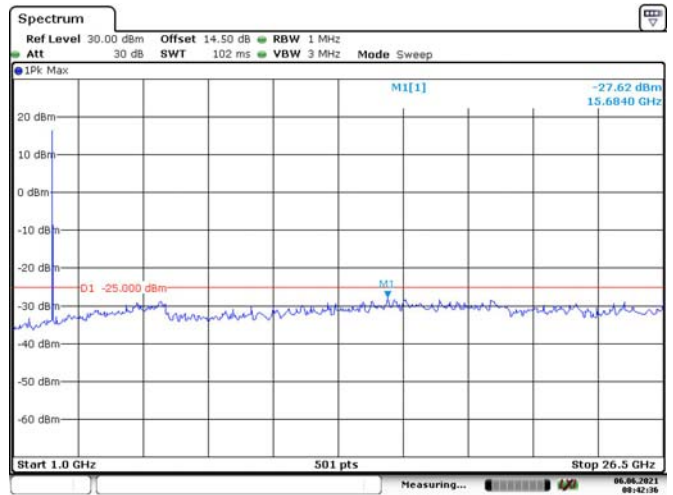
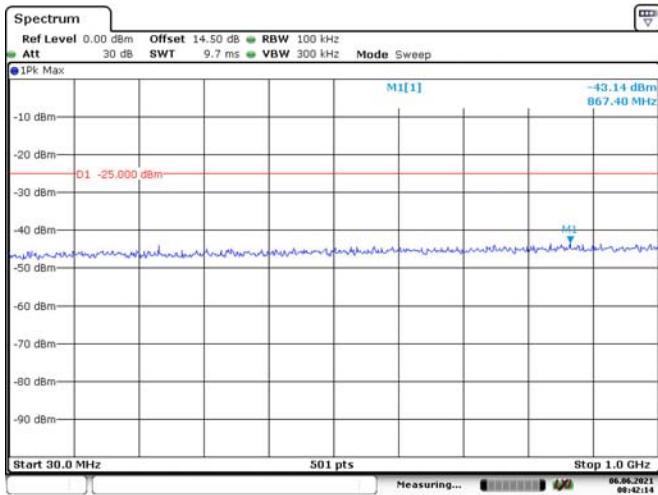
5M, QPSK, Low Channel



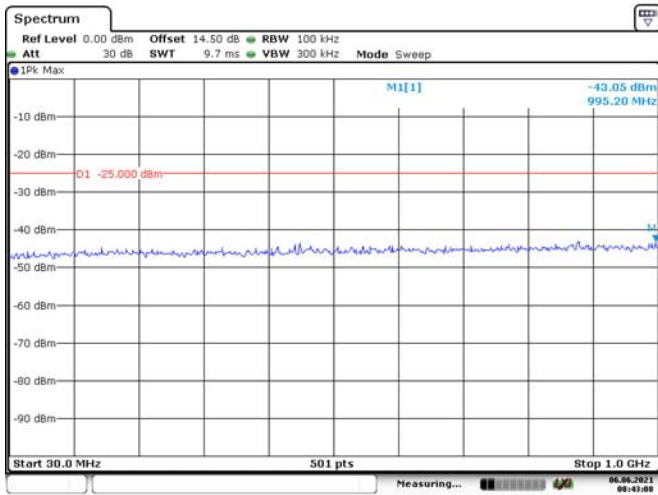
5M, QPSK, Middle Channel



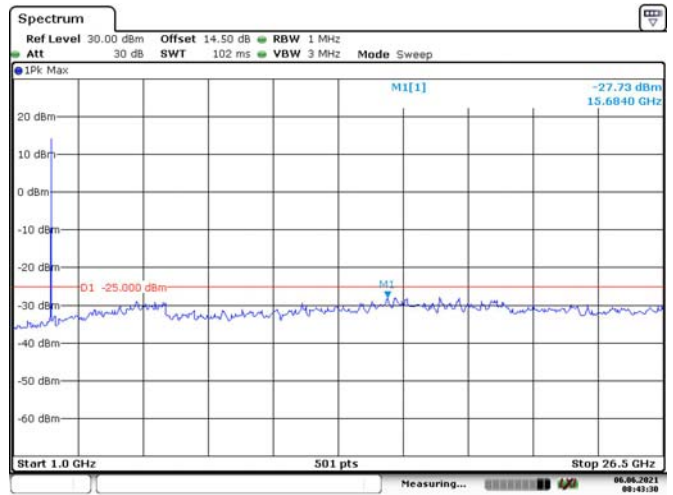
5M, QPSK, High Channel



10M, QPSK, Low Channel

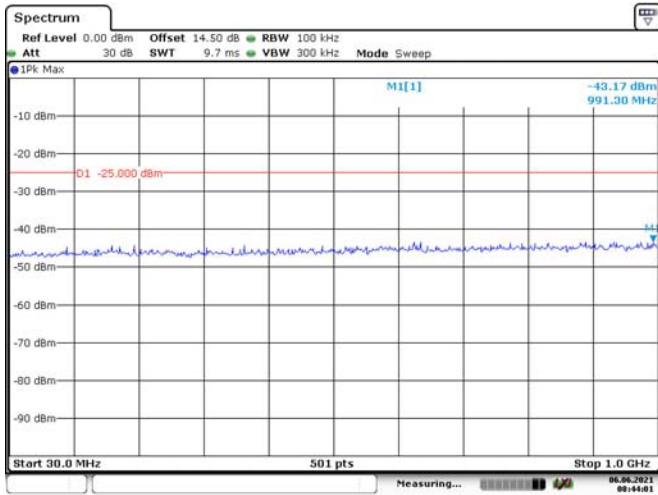


Date: 6 JUN. 2021 08:43:08

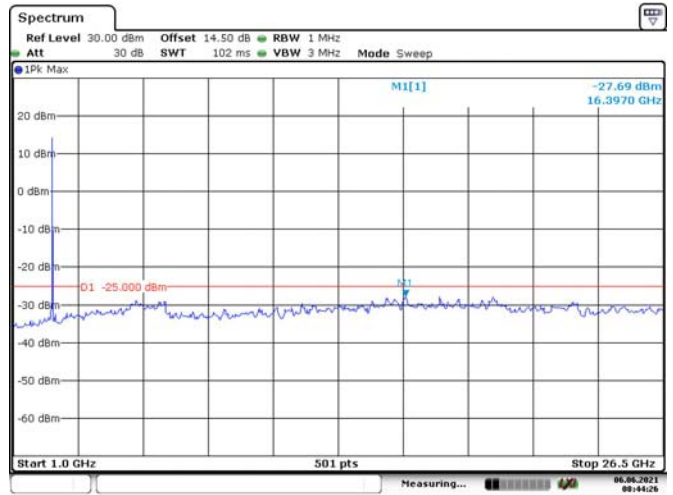


Date: 6 JUN. 2021 08:43:30

10M, QPSK, Middle Channel

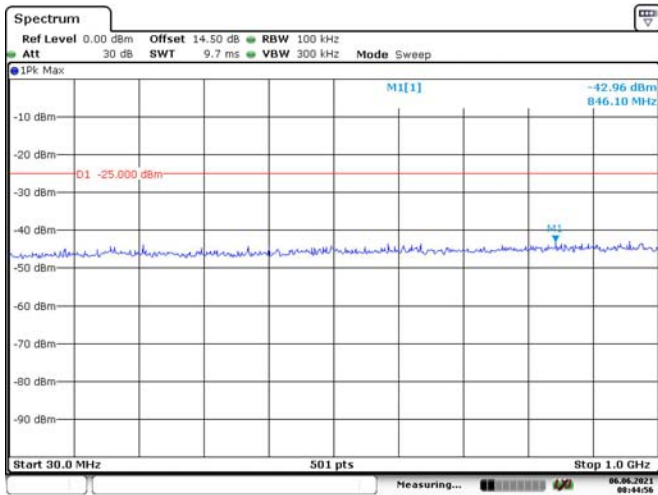


Date: 6 JUN. 2021 08:44:01

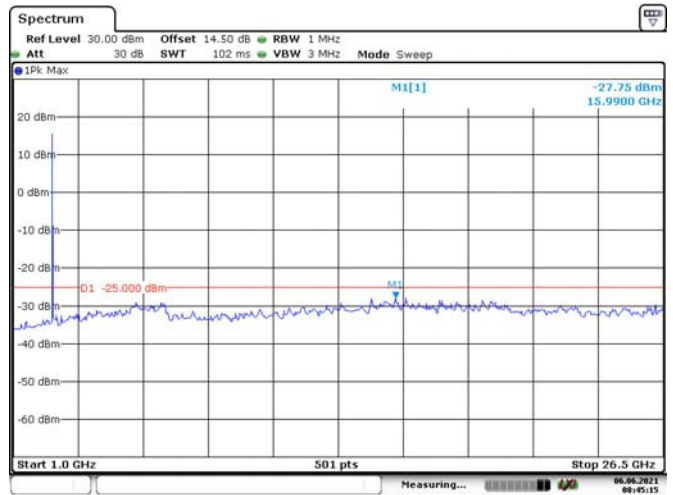


Date: 6 JUN. 2021 08:44:26

10M, QPSK, High Channel

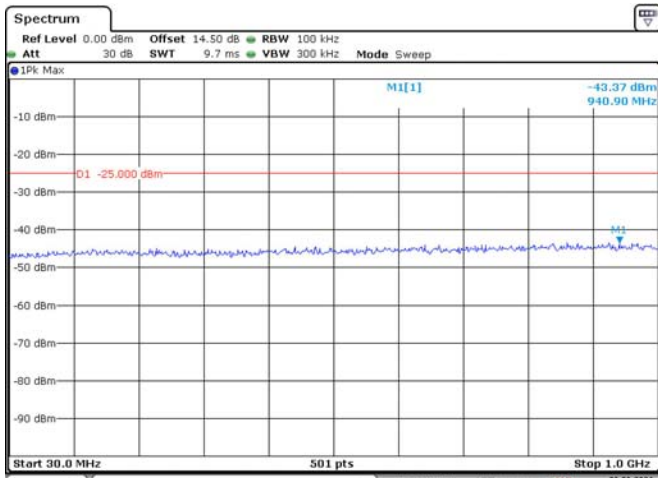


Date: 6 JUN. 2021 08:44:56

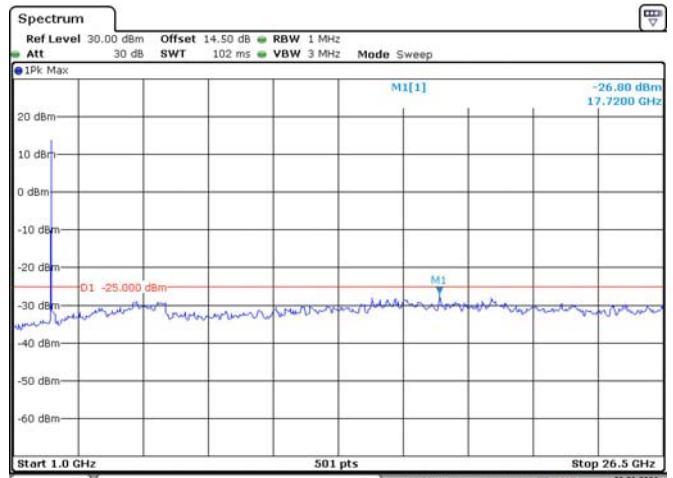


Date: 6 JUN. 2021 08:45:15

15M, QPSK, Low Channel

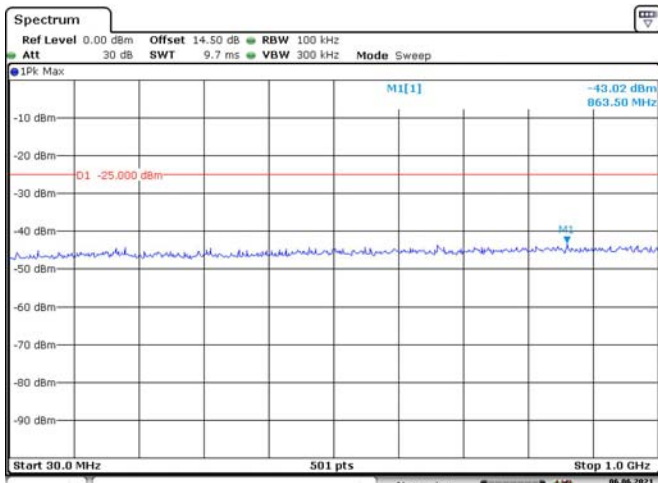


Date: 6 JUN. 2021 08:45:53

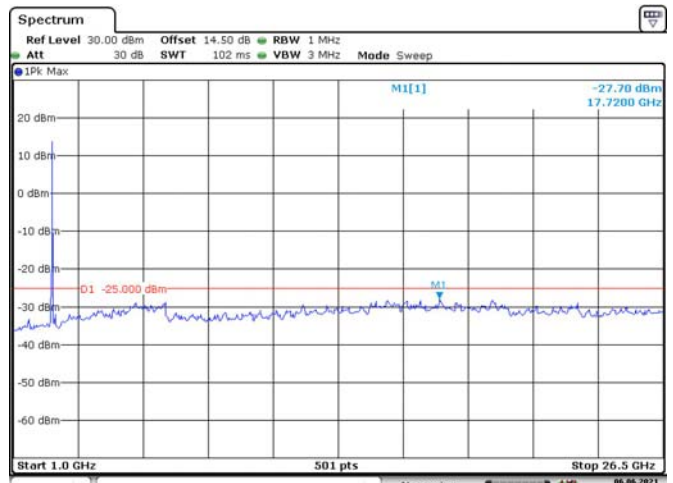


Date: 6 JUN. 2021 08:46:18

15M, QPSK, Middle Channel

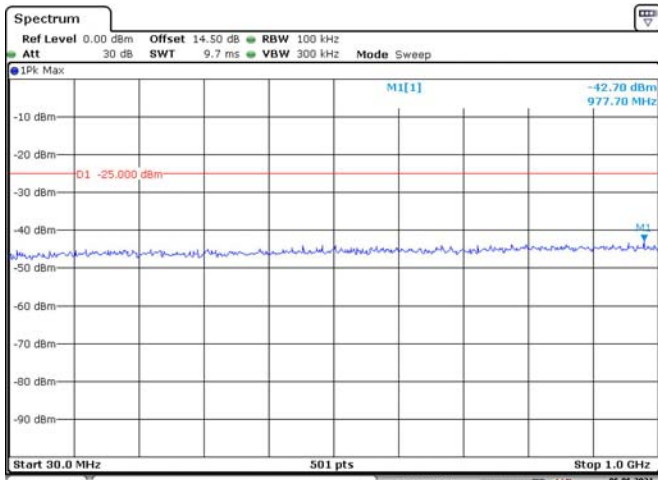


Date: 6 JUN. 2021 08:46:51

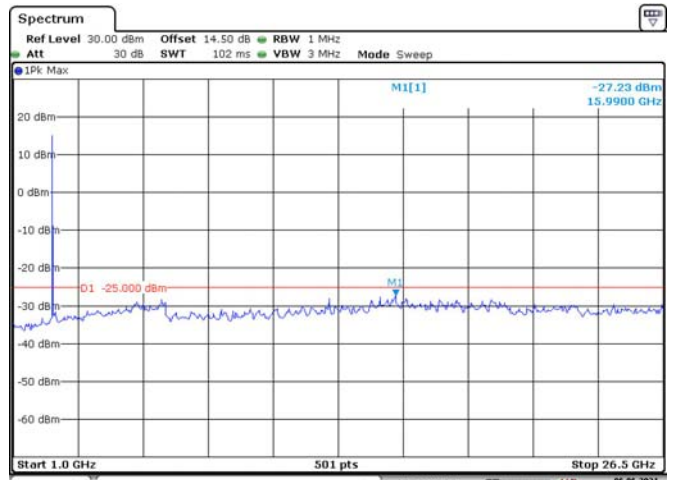


Date: 6 JUN. 2021 08:47:16

15M, QPSK, High Channel

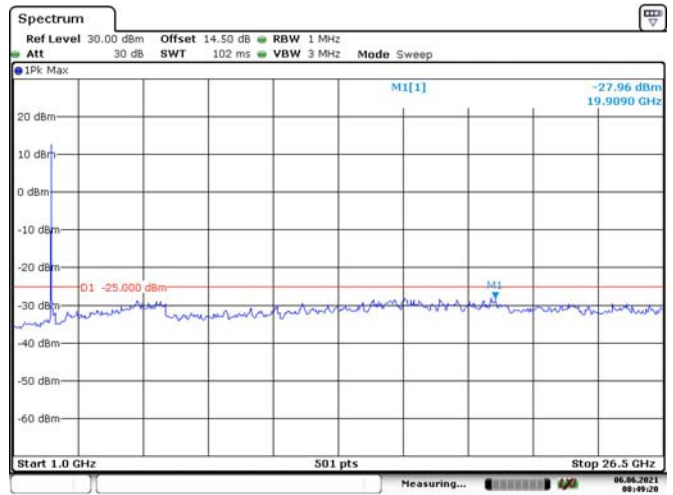
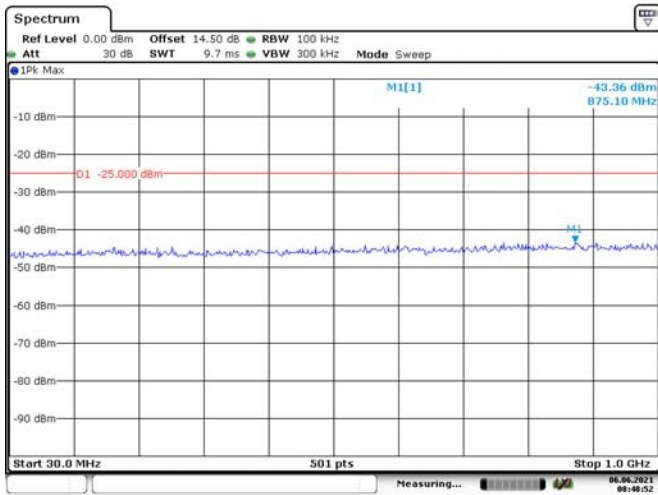


Date: 6 JUN. 2021 08:47:48

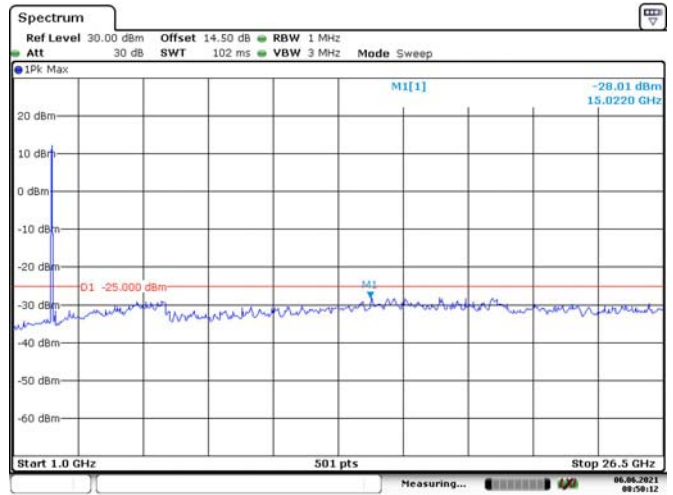
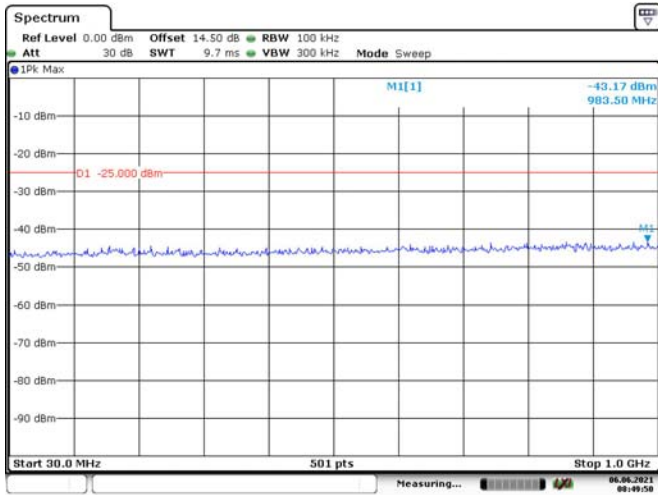


Date: 6 JUN. 2021 08:48:16

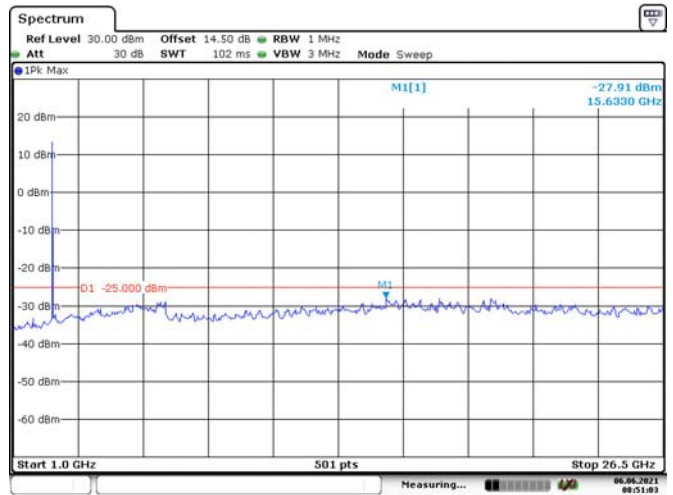
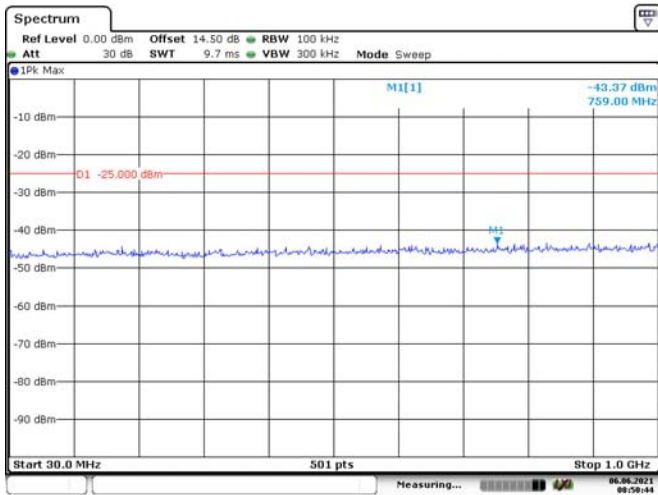
### 20M, QPSK, Low Channel



### 20M, QPSK, Middle Channel

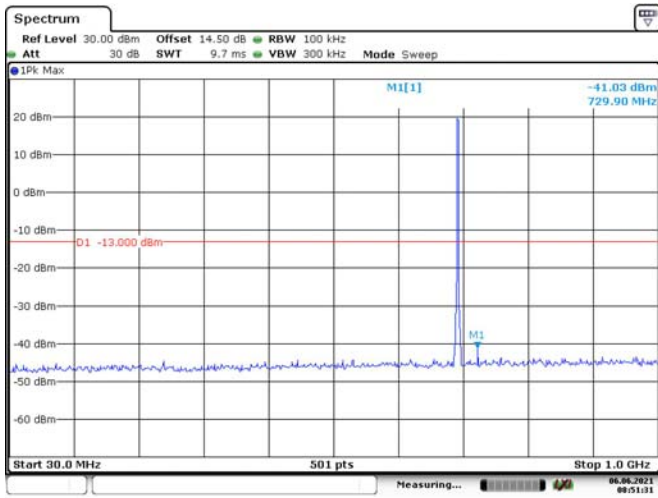


### 20M, QPSK, High Channel

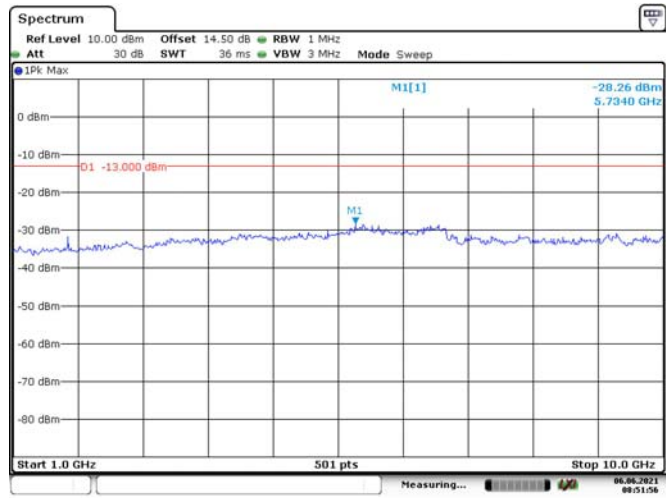


**LTE Band 12:**

**1.4M, QPSK, Low Channel**

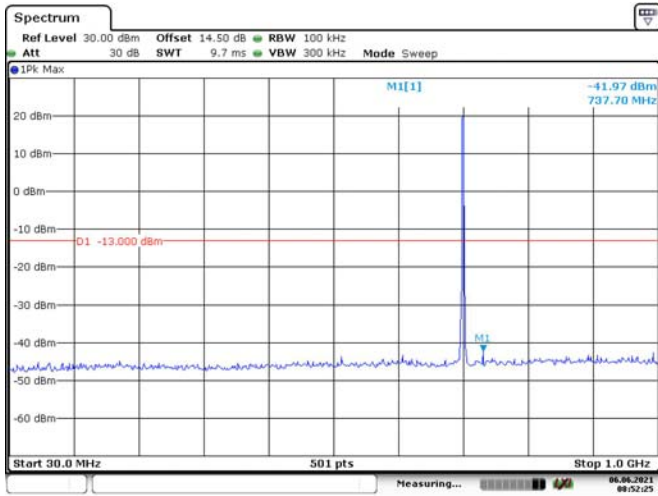


Date: 6, JUN, 2021 08:51:31

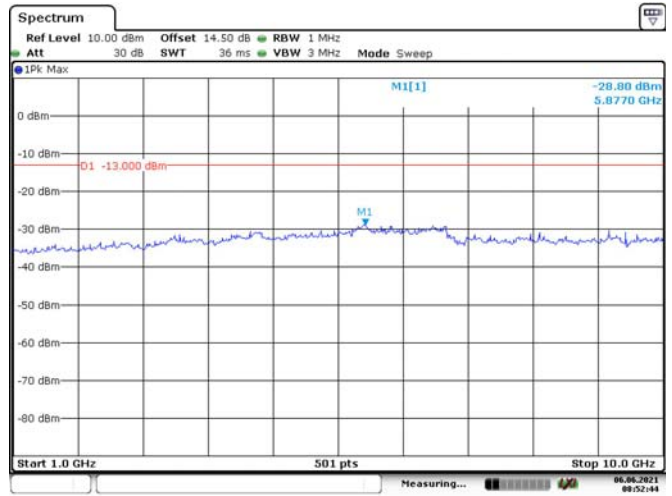


Date: 6, JUN, 2021 08:51:56

**1.4M, QPSK, Middle Channel**

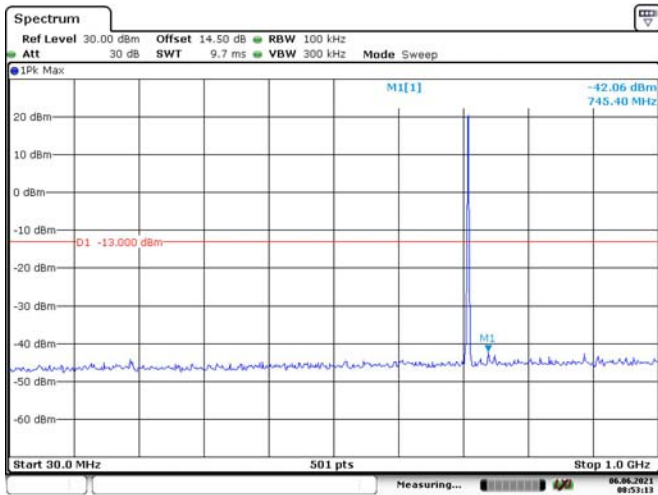


Date: 6, JUN, 2021 08:52:26

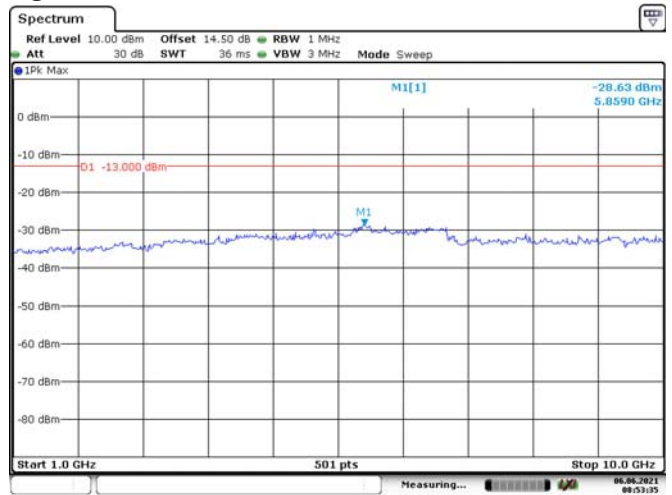


Date: 6, JUN, 2021 08:52:44

**1.4M, QPSK, High Channel**

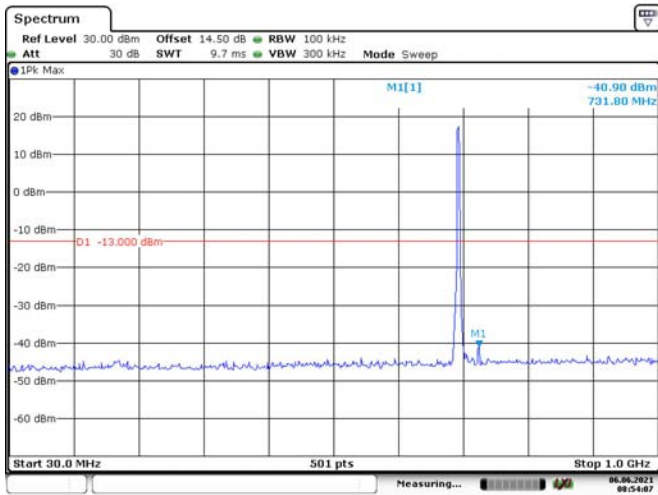


Date: 6, JUN, 2021 08:53:13

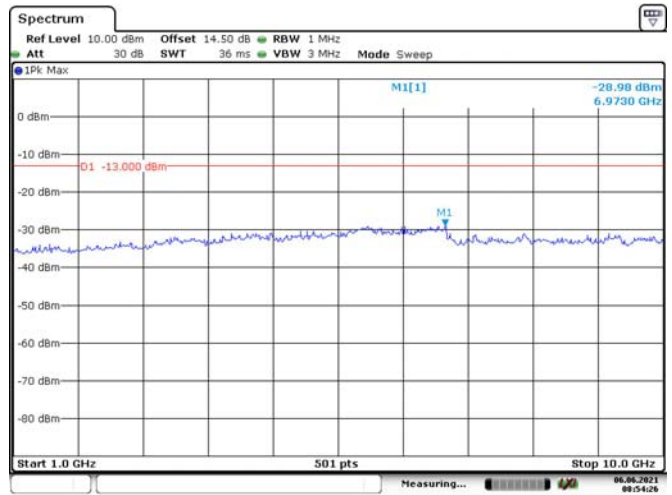


Date: 6, JUN, 2021 08:53:35

### 3M, QPSK, Low Channel

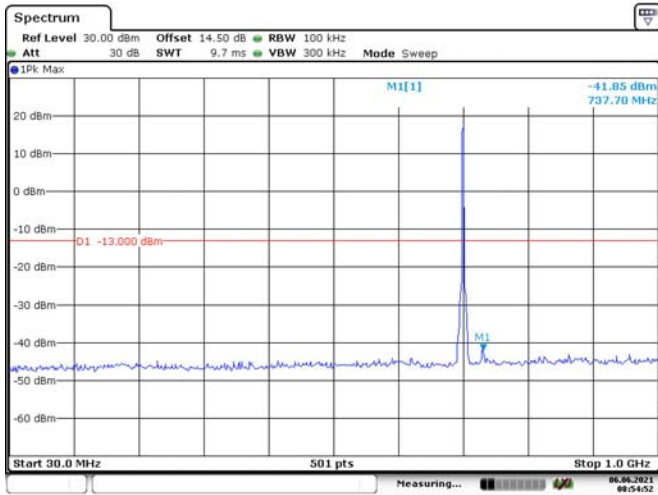


Date: 6, JUN, 2021 08:54:07

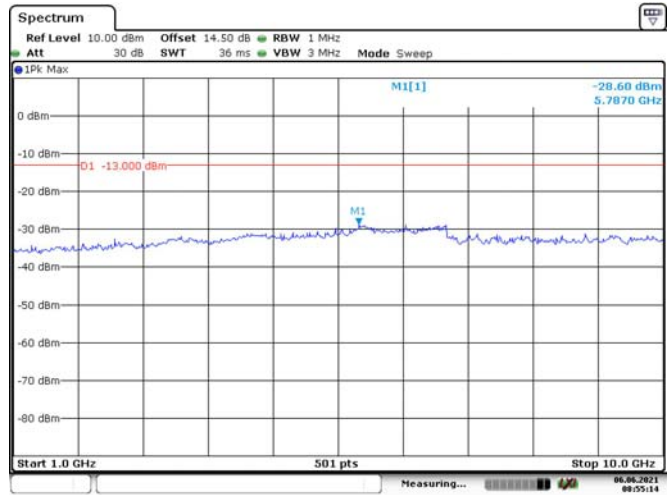


Date: 6, JUN, 2021 08:54:26

### 3M, QPSK, Middle Channel

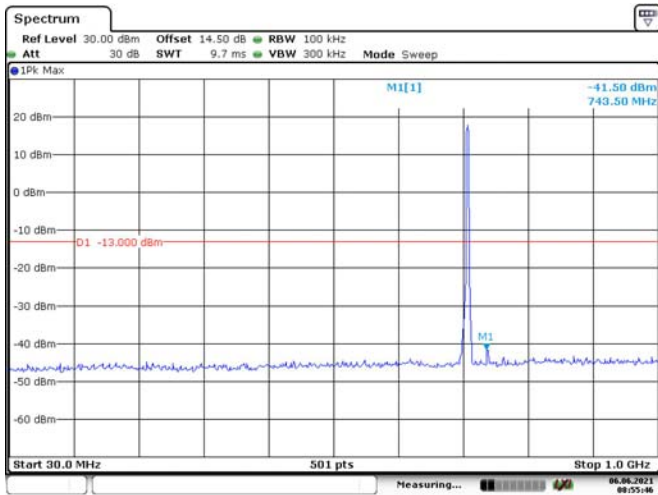


Date: 6, JUN, 2021 08:54:52

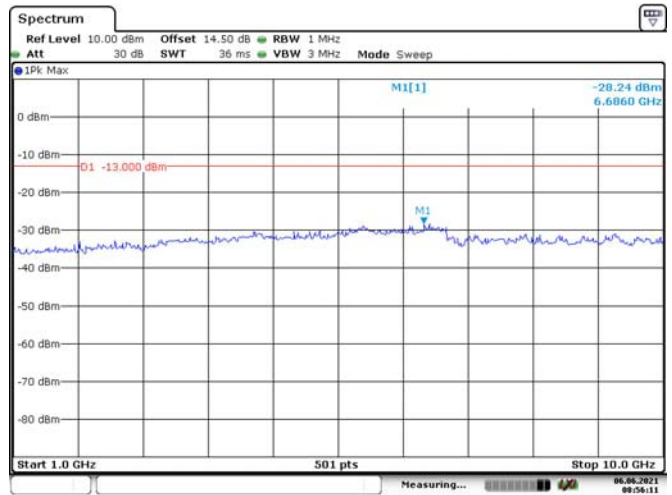


Date: 6, JUN, 2021 08:55:14

### 3M, QPSK, High Channel



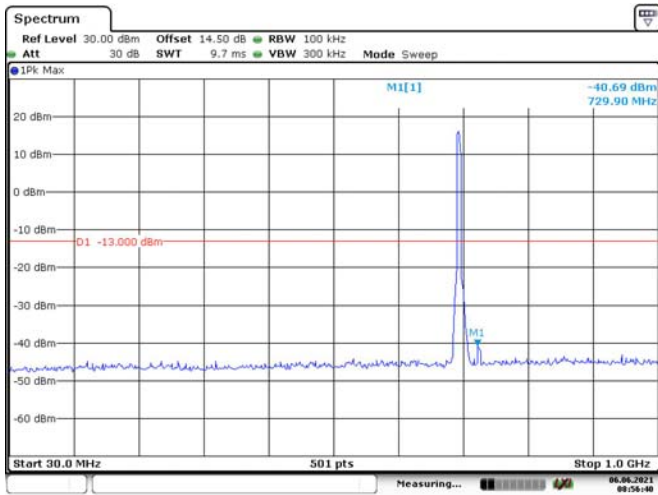
Date: 6, JUN, 2021 08:55:46



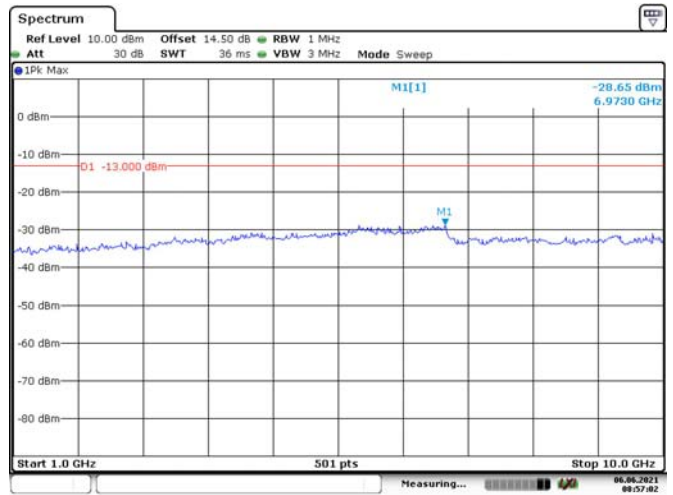
Date: 6, JUN, 2021 08:56:11



### 5M, QPSK, Low Channel

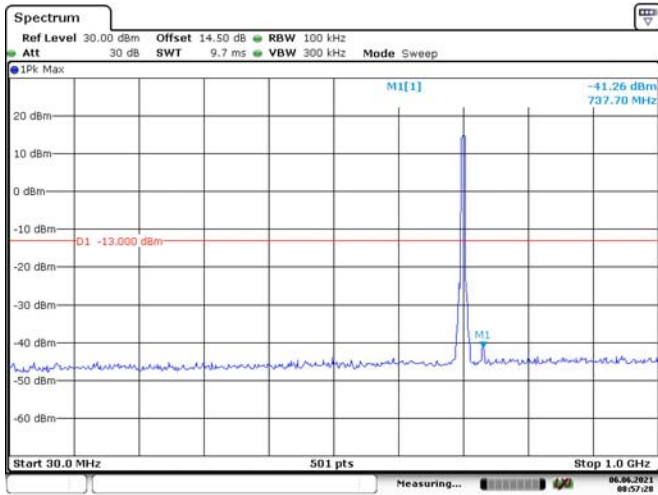


Date: 6 JUN. 2021 08:56:40

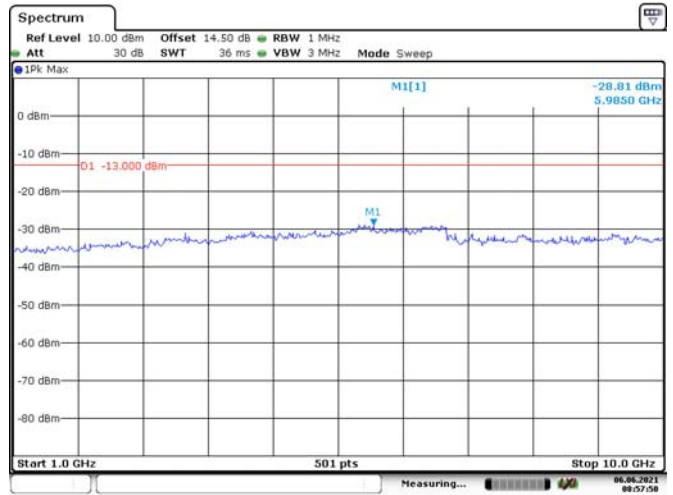


Date: 6 JUN. 2021 08:57:02

### 5M, QPSK, Middle Channel

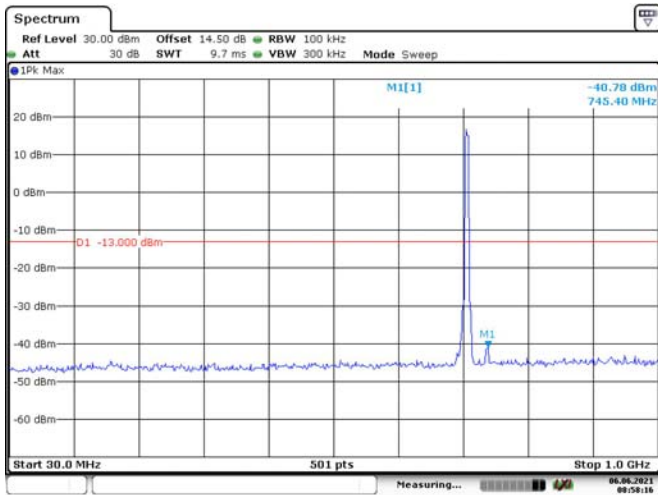


Date: 6 JUN. 2021 08:57:28

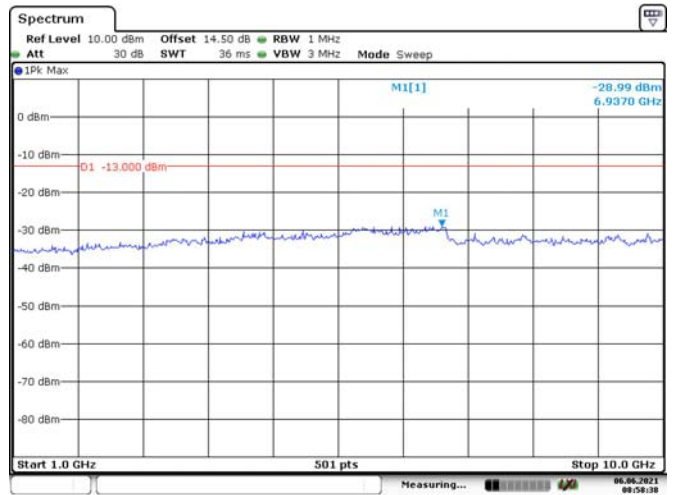


Date: 6 JUN. 2021 08:57:50

### 5M, QPSK, High Channel

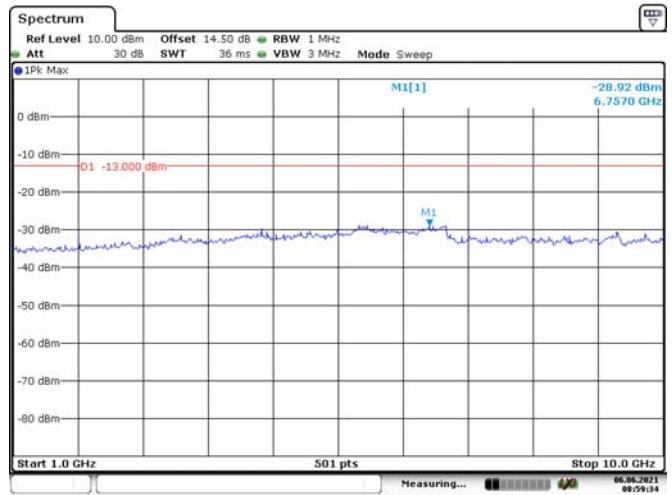
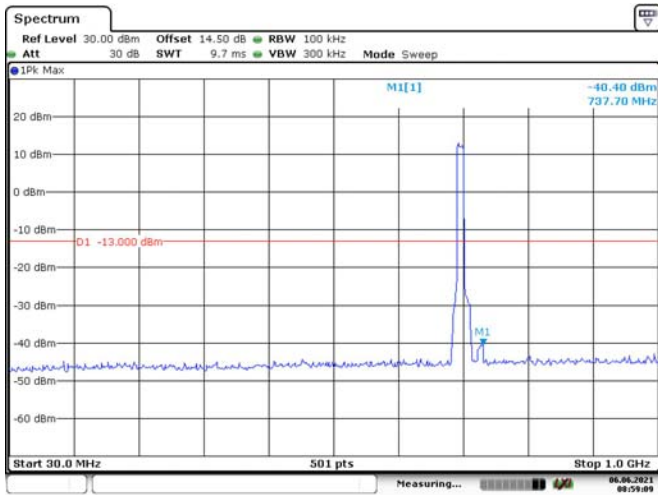


Date: 6 JUN. 2021 08:58:16

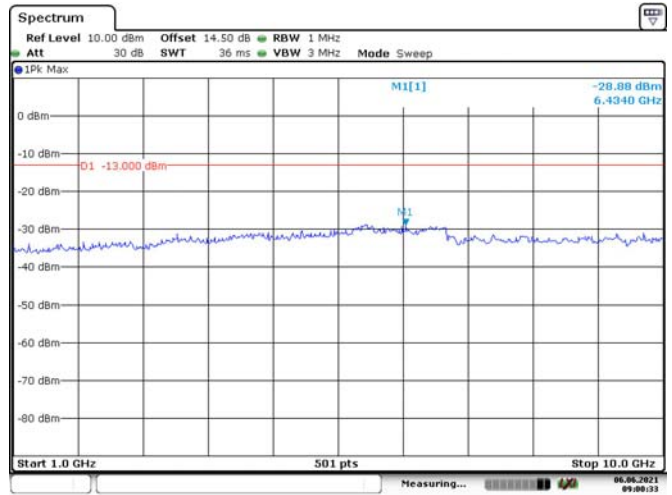
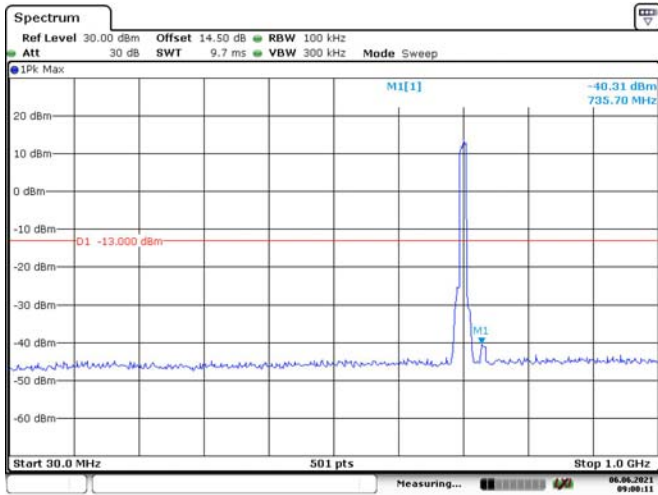


Date: 6 JUN. 2021 08:58:38

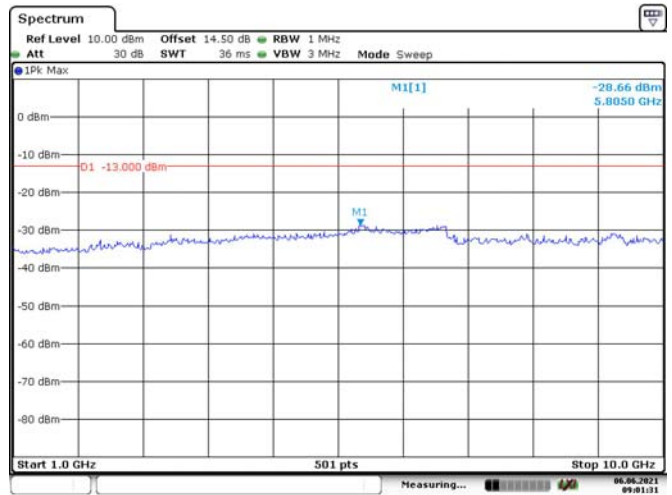
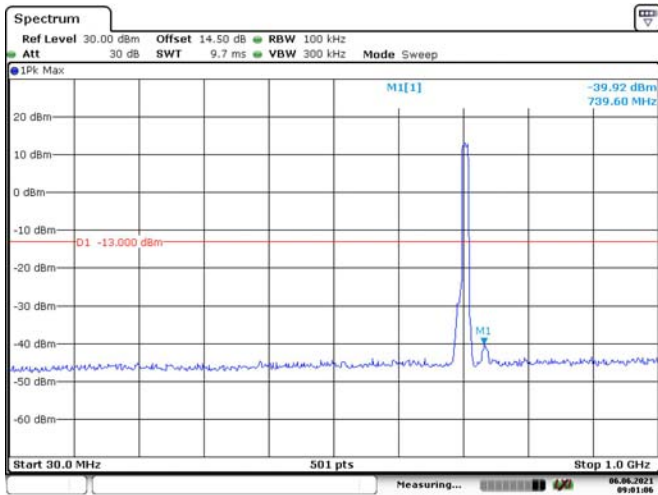
10M, QPSK, Low Channel



10M, QPSK, Middle Channel

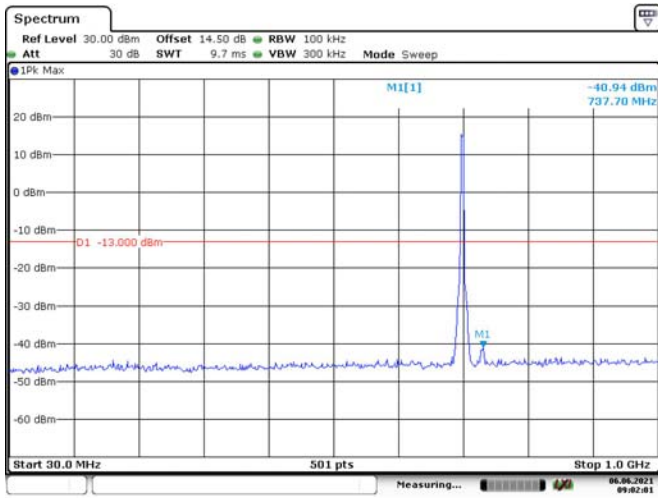


10M, QPSK, High Channel

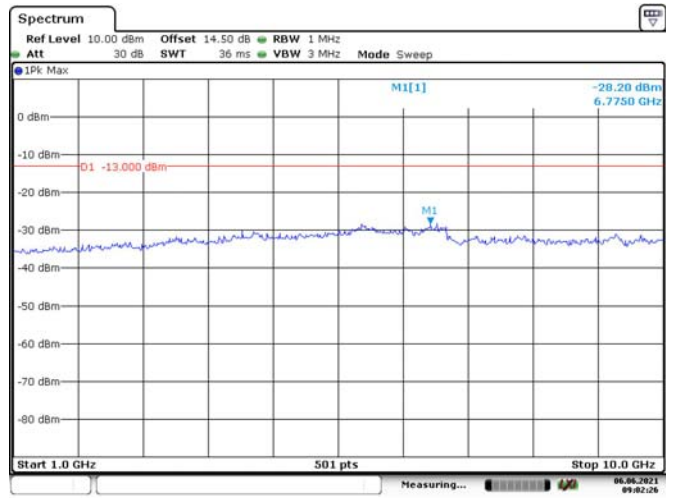


**LTE Band 17:**

**5M, QPSK, Low Channel**

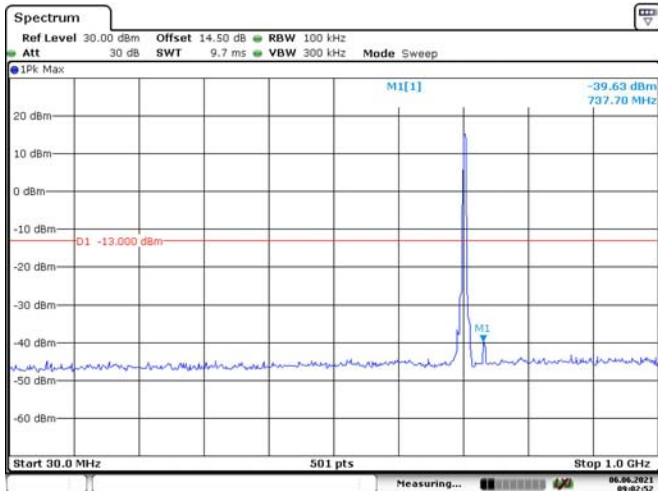


Date: 6 JUN 2021 09:02:01

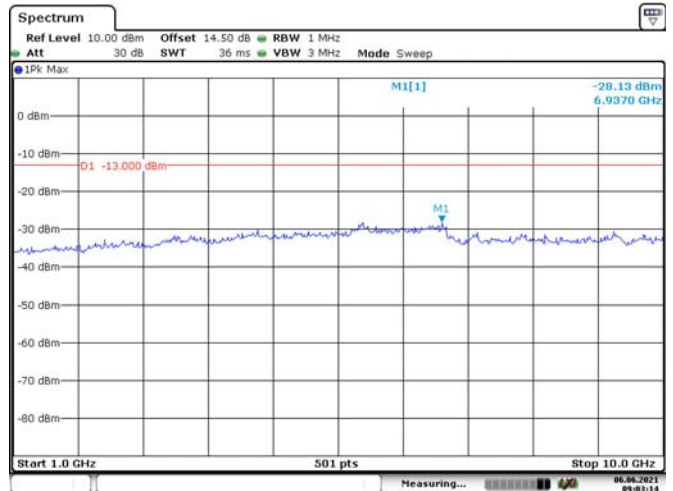


Date: 6 JUN 2021 09:02:26

**5M, QPSK, Middle Channel**

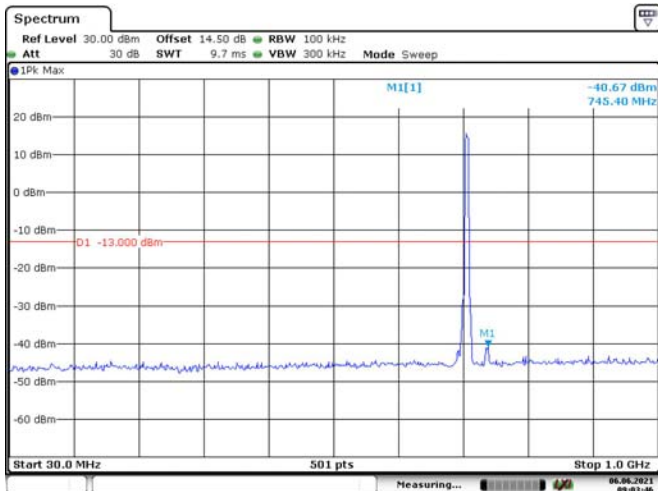


Date: 6 JUN 2021 09:02:52

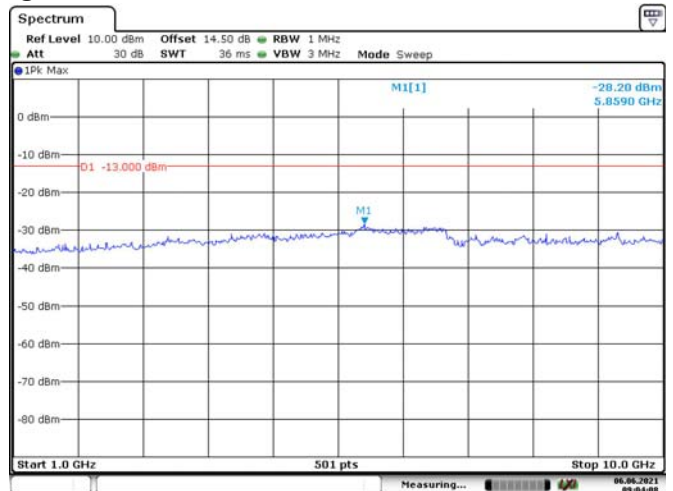


Date: 6 JUN 2021 09:03:14

**5M, QPSK, High Channel**

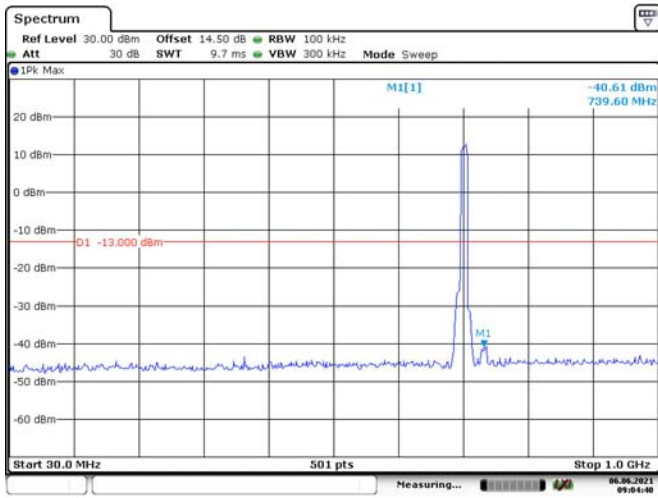


Date: 6 JUN 2021 09:03:46

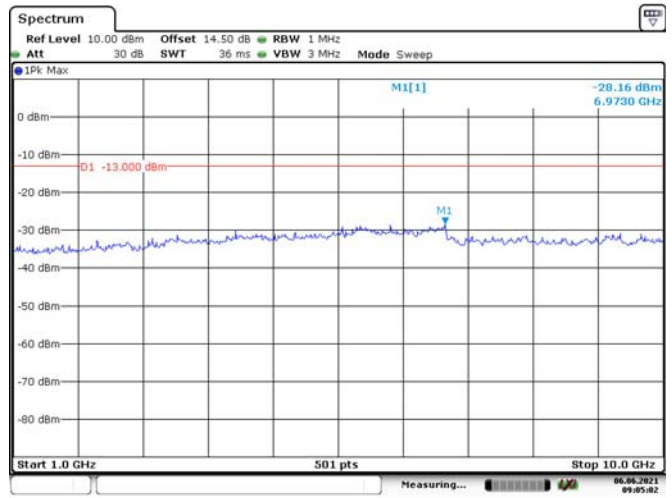


Date: 6 JUN 2021 09:04:08

### 10M, QPSK, Low Channel

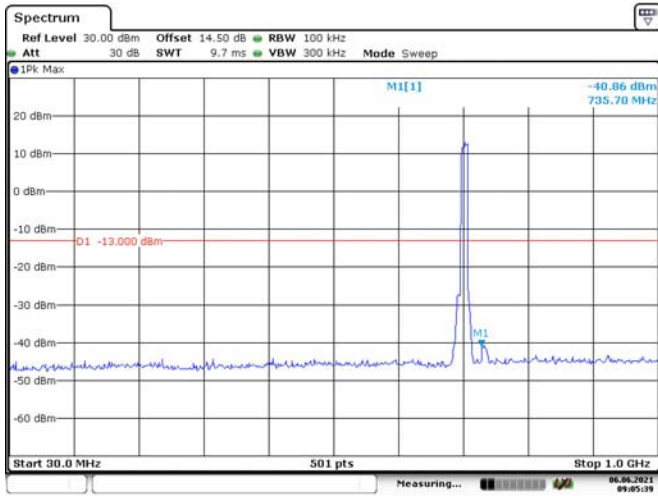


Date: 6 JUN 2021 09:04:40

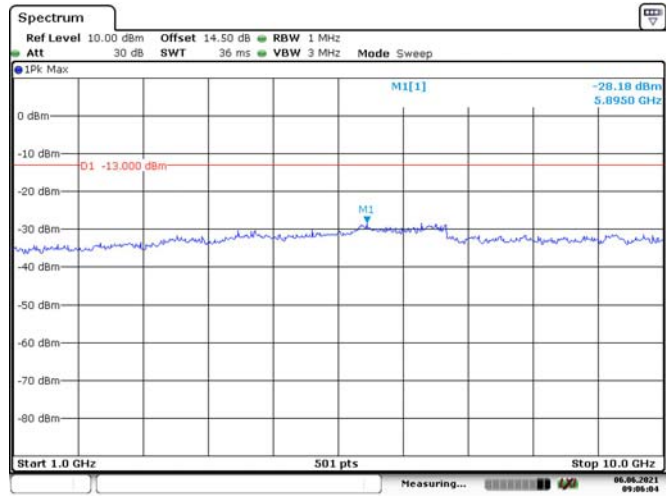


Date: 6 JUN 2021 09:05:02

### 10M, QPSK, Middle Channel

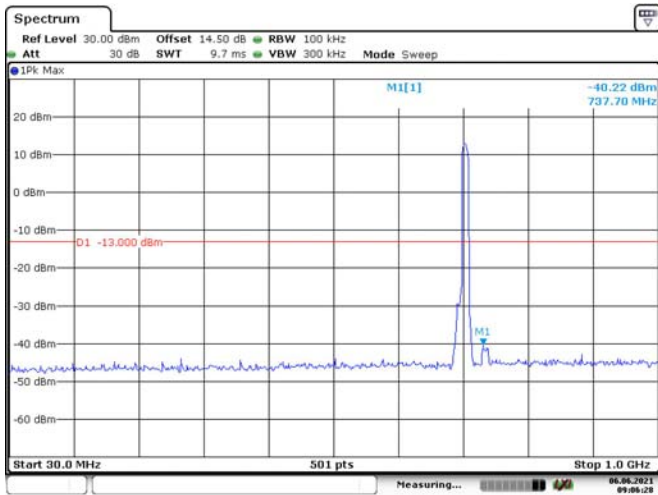


Date: 6 JUN 2021 09:05:19

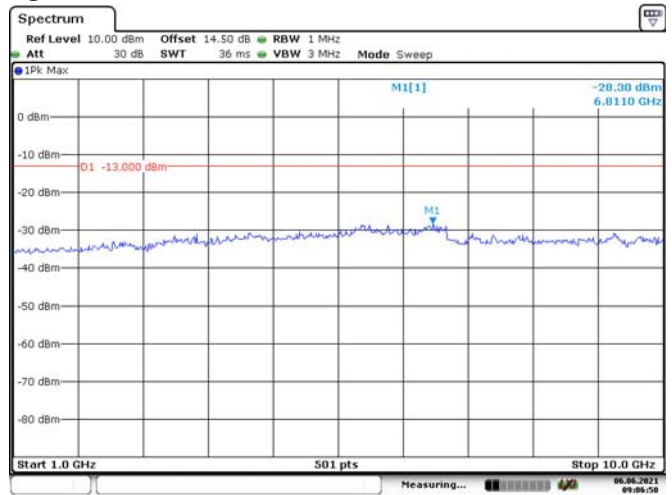


Date: 6 JUN 2021 09:05:04

### 10M, QPSK, High Channel



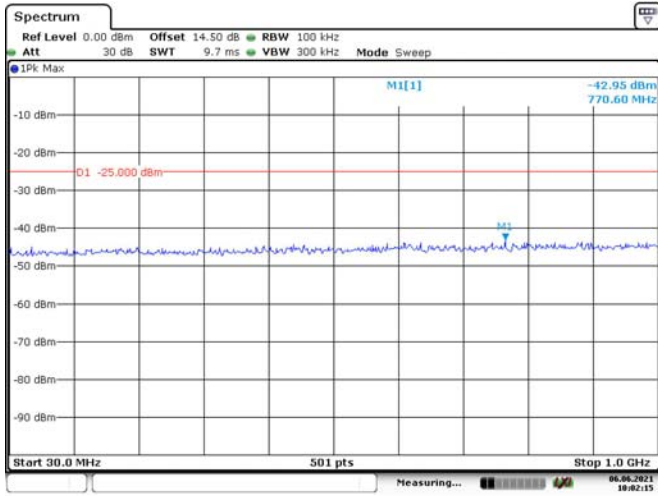
Date: 6 JUN 2021 09:06:29



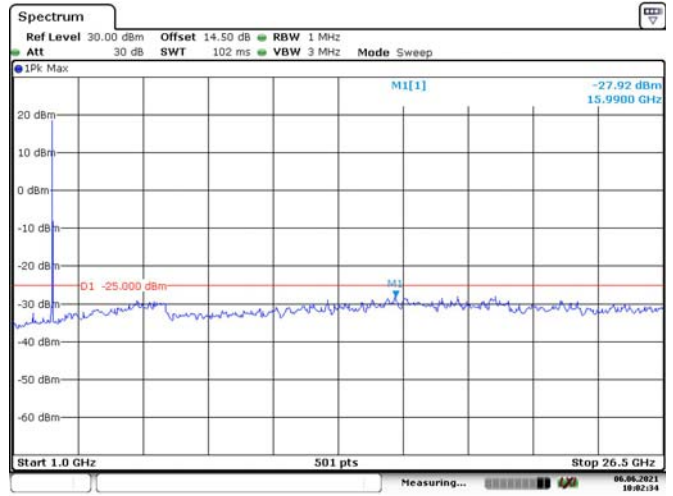
Date: 6 JUN 2021 09:06:58

LTE Band 41:

5M, QPSK, Low Channel

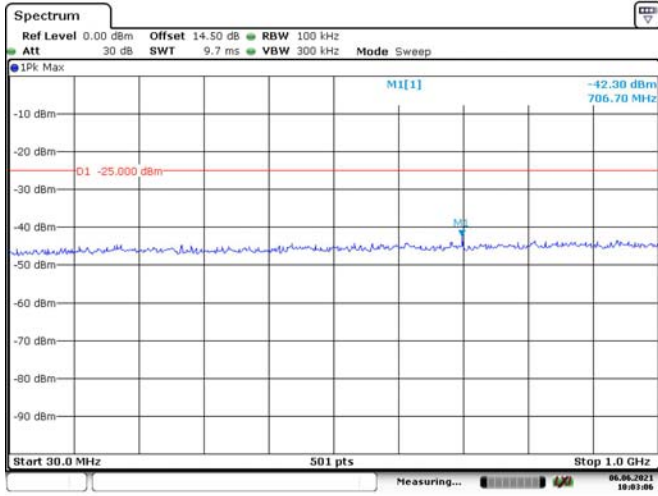


Date: 6 JUN 2021 10:02:16

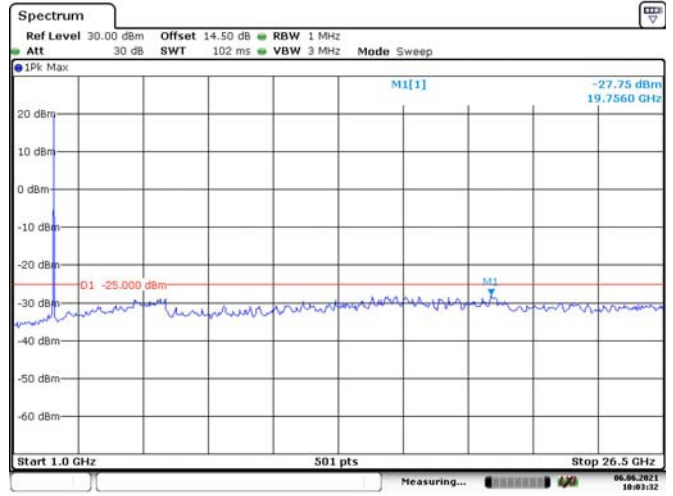


Date: 6 JUN 2021 10:02:35

5M, QPSK, Middle Channel

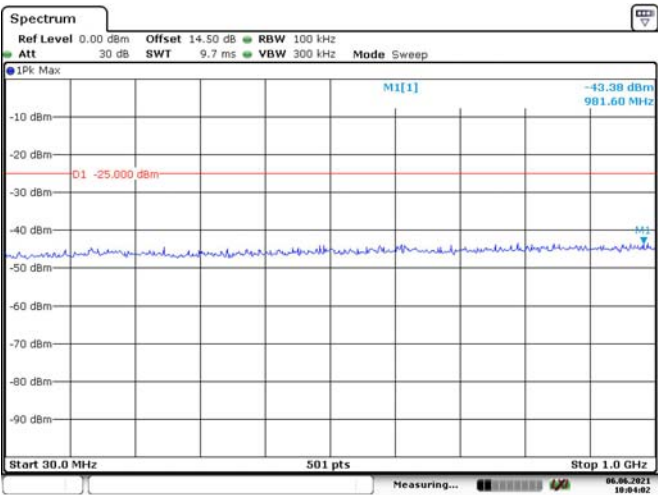


Date: 6 JUN 2021 10:03:07

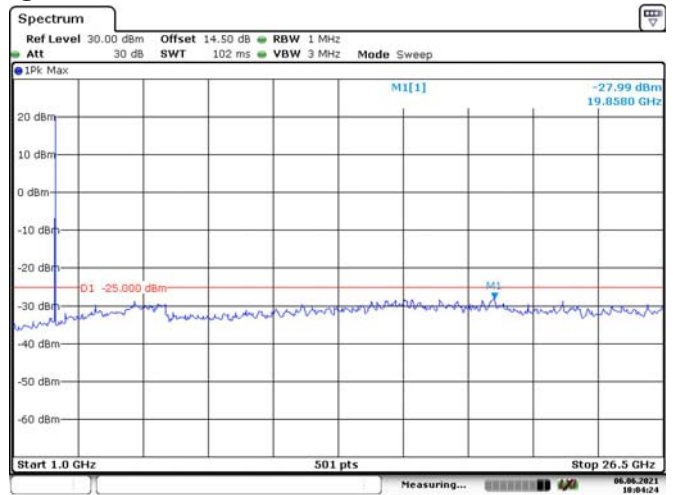


Date: 6 JUN 2021 10:03:32

5M, QPSK, High Channel

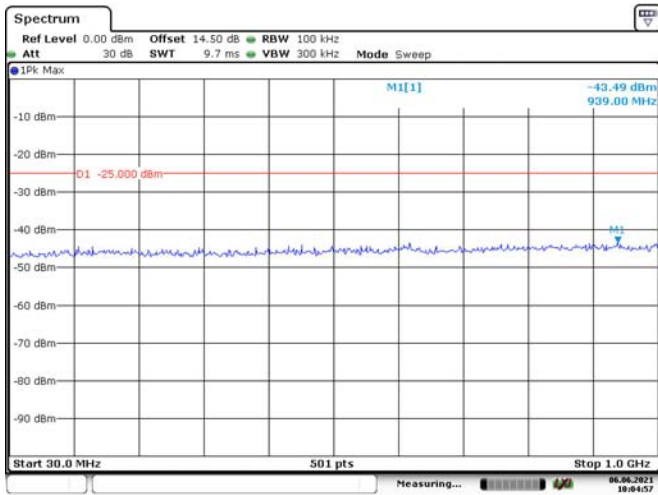


Date: 6 JUN 2021 10:04:02

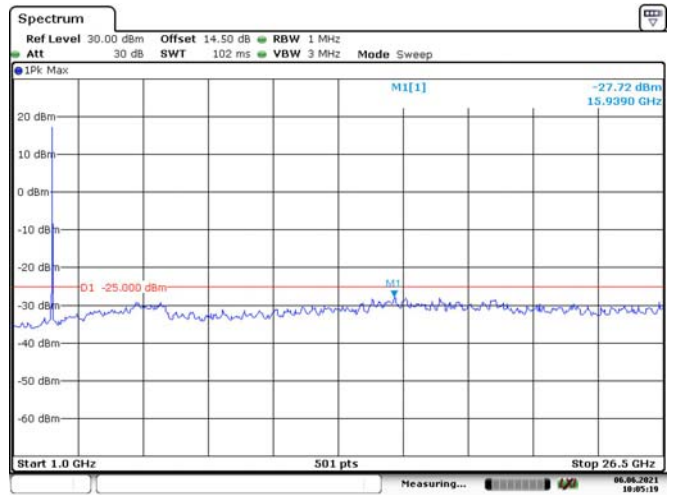


Date: 6 JUN 2021 10:04:24

10M, QPSK, Low Channel

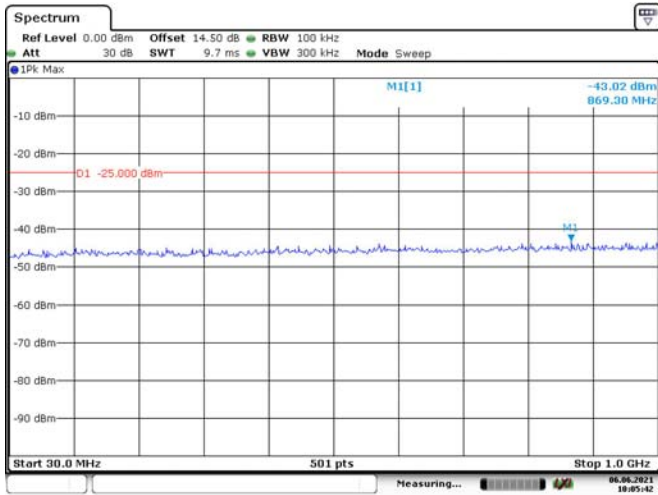


Date: 6 JUN. 2021 10:04:57

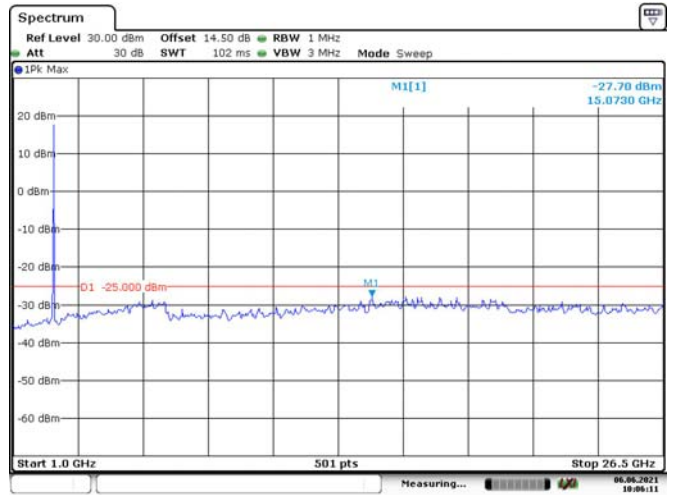


Date: 6 JUN. 2021 10:05:19

10M, QPSK, Middle Channel

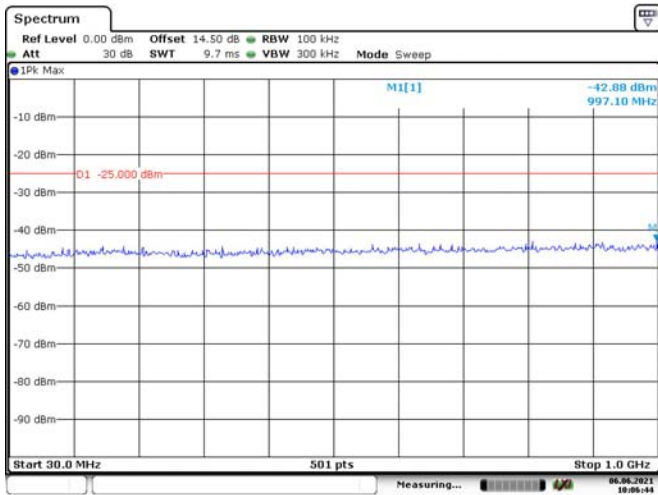


Date: 6 JUN. 2021 10:05:43

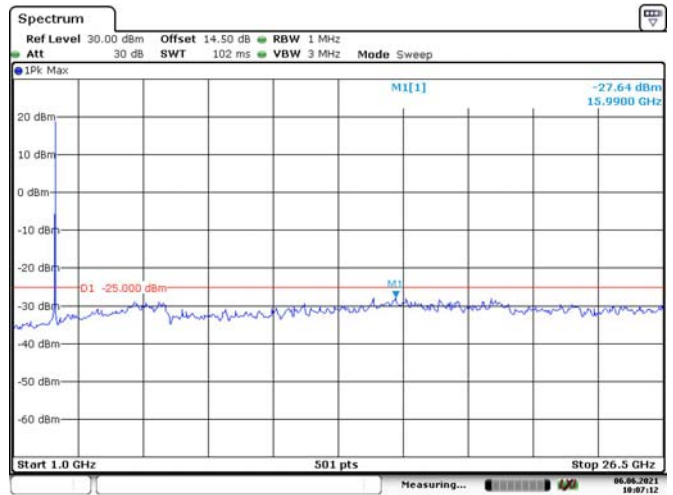


Date: 6 JUN. 2021 10:06:11

10M, QPSK, High Channel

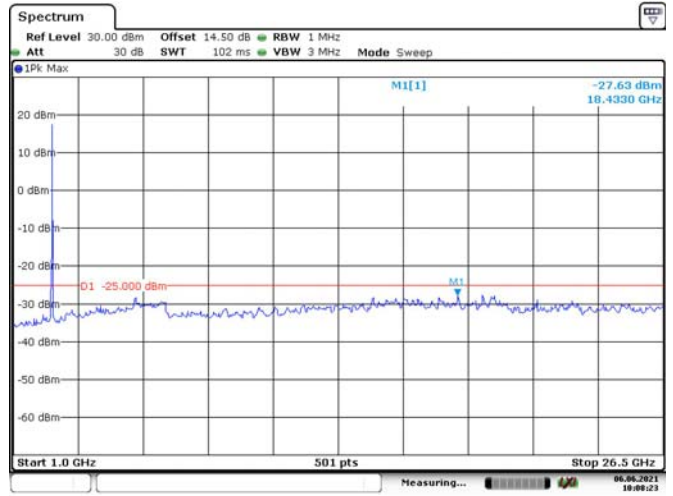
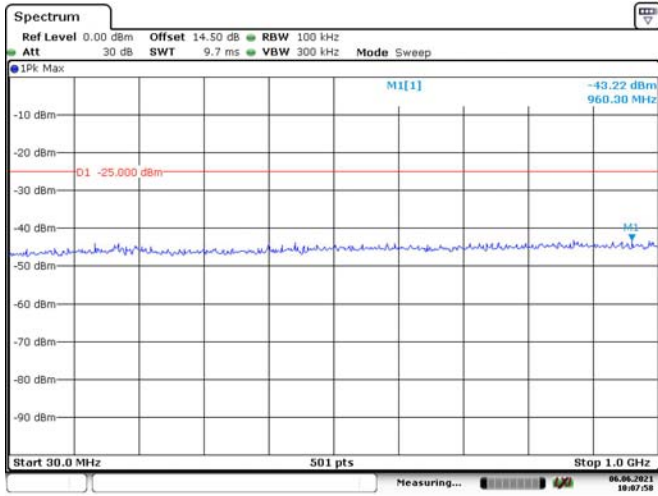


Date: 6 JUN. 2021 10:06:44

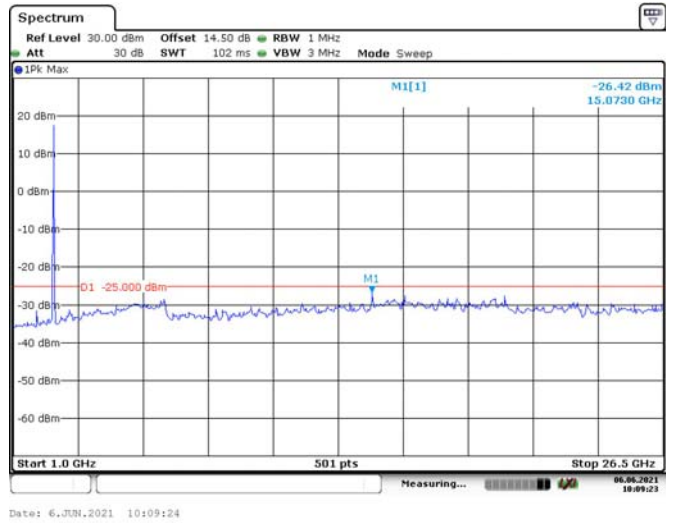
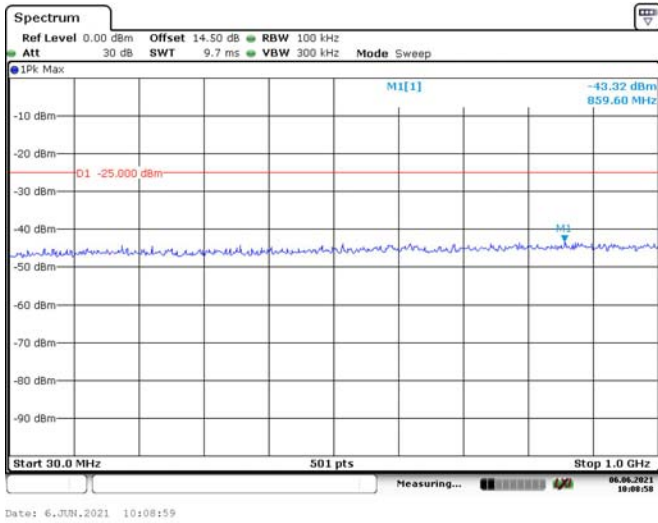


Date: 6 JUN. 2021 10:07:12

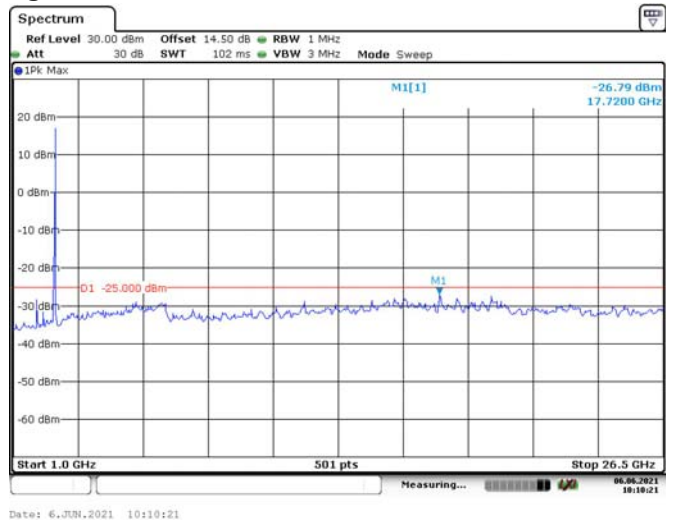
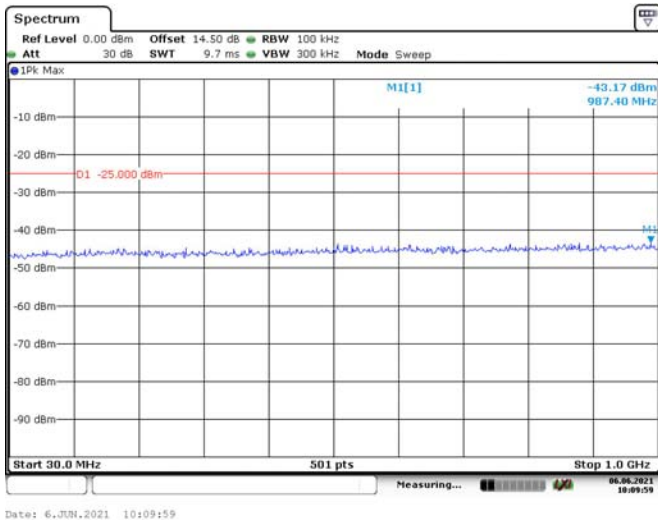
### 15M, QPSK, Low Channel



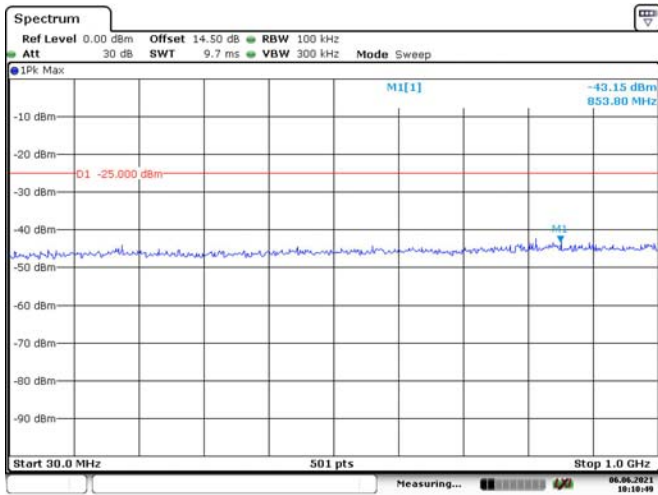
### 15M, QPSK, Middle Channel



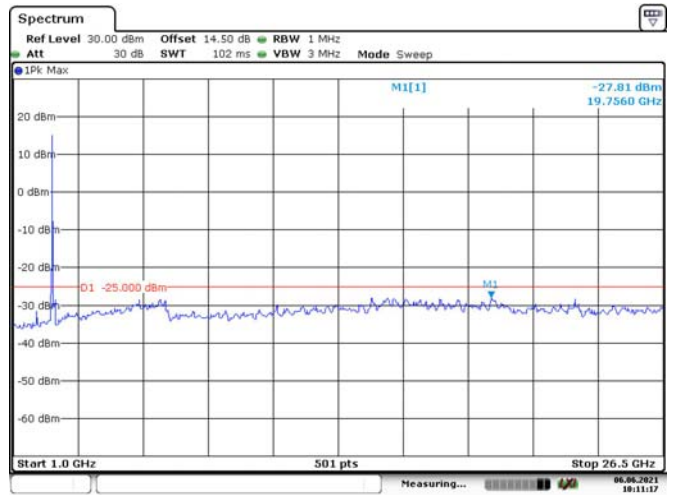
### 15M, QPSK, High Channel



### 20M, QPSK, Low Channel

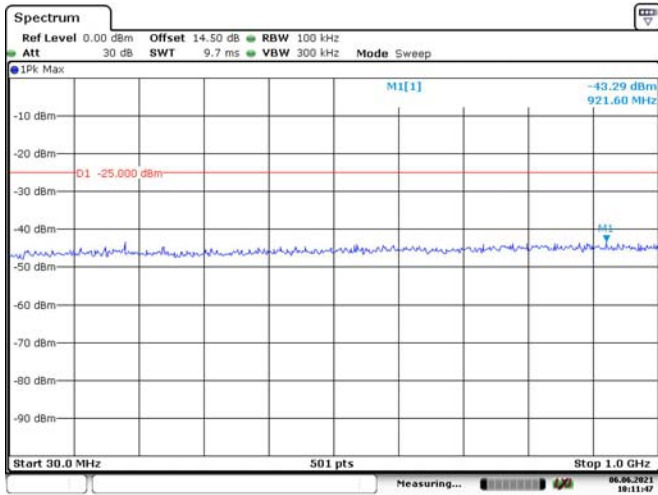


Date: 6 JUN. 2021 10:10:50

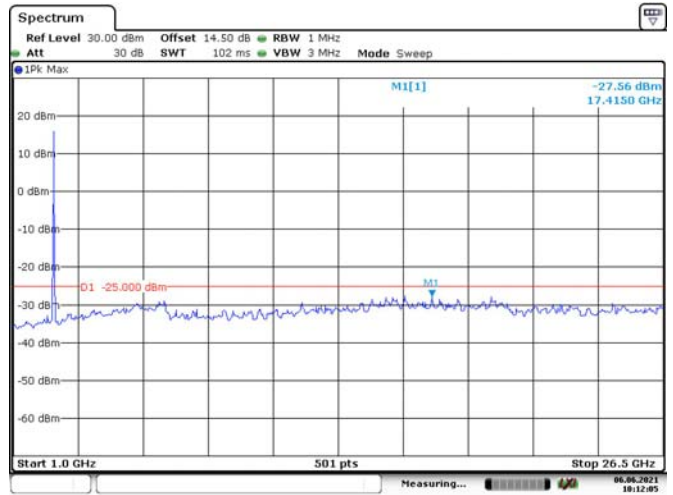


Date: 6 JUN. 2021 10:11:18

### 20M, QPSK, Middle Channel

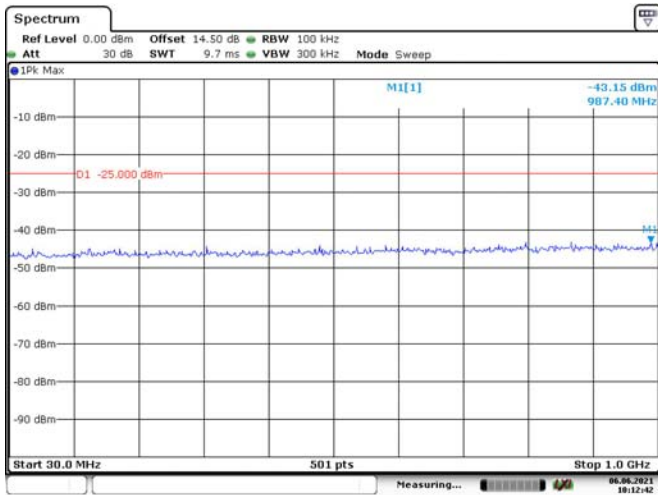


Date: 6 JUN. 2021 10:11:47

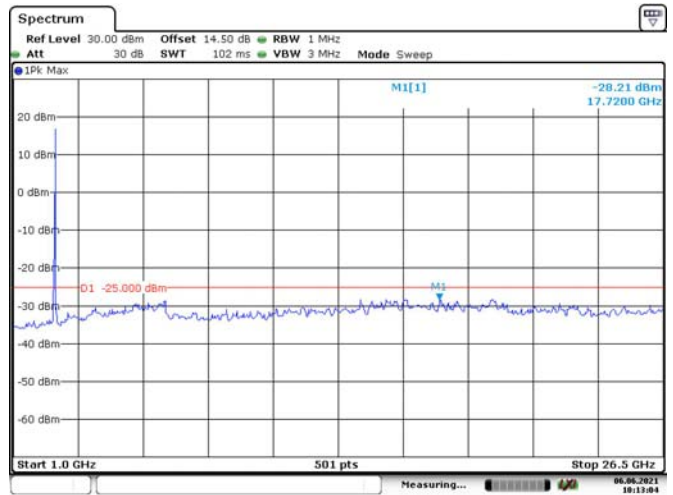


Date: 6 JUN. 2021 10:12:06

### 20M, QPSK, High Channel



Date: 6 JUN. 2021 10:12:42

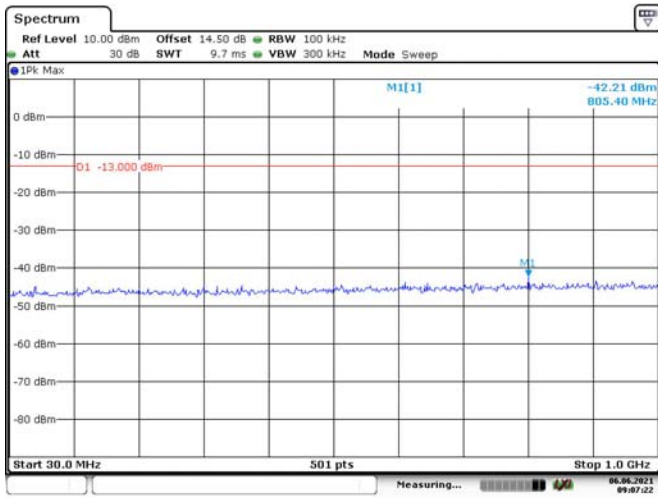


Date: 6 JUN. 2021 10:13:04

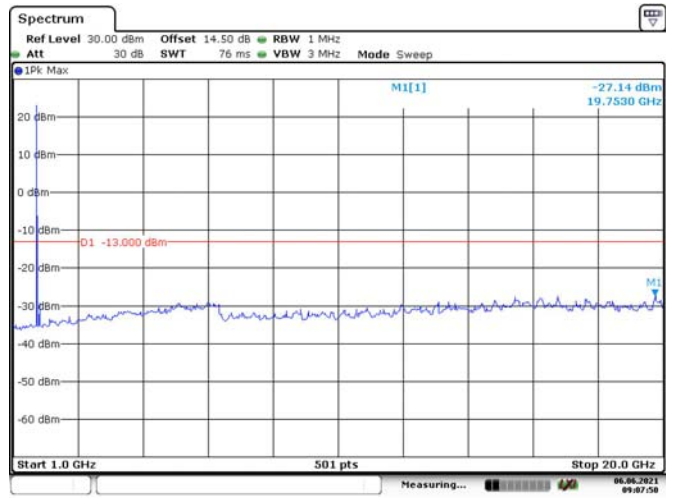


**LTE Band 66:**

**1.4M, QPSK, Low Channel**

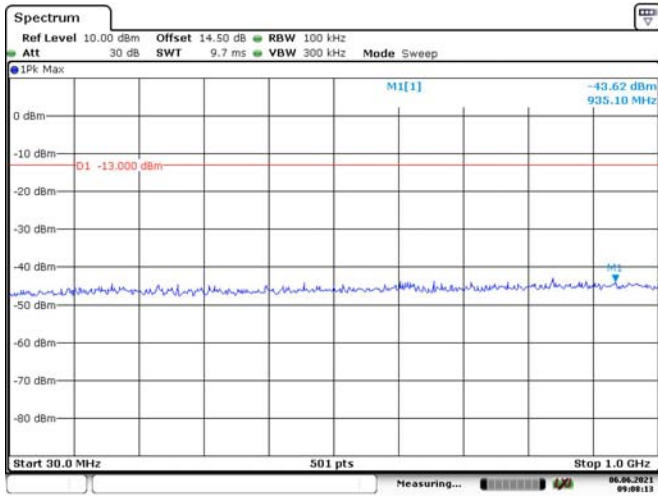


Date: 6 JUN. 2021 09:07:22

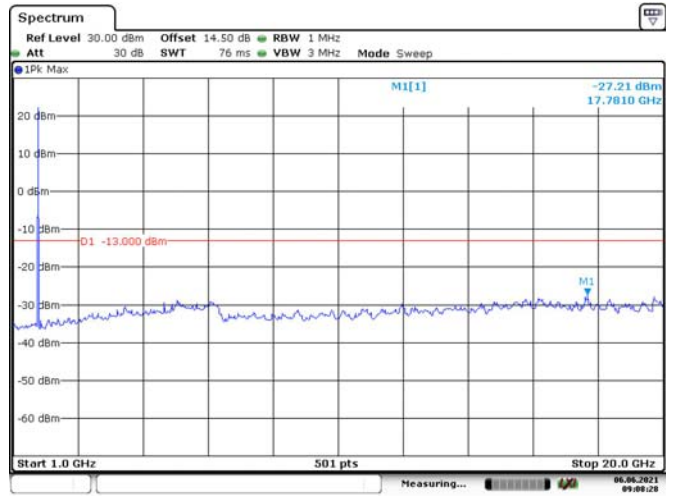


Date: 6 JUN. 2021 09:07:50

**1.4M, QPSK, Middle Channel**

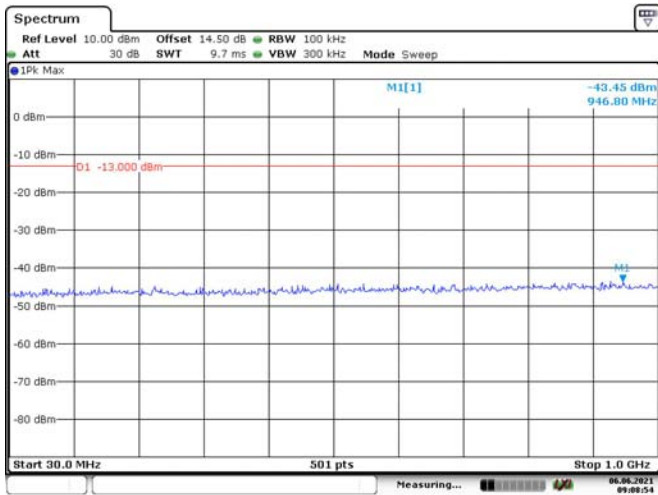


Date: 6 JUN. 2021 09:08:13

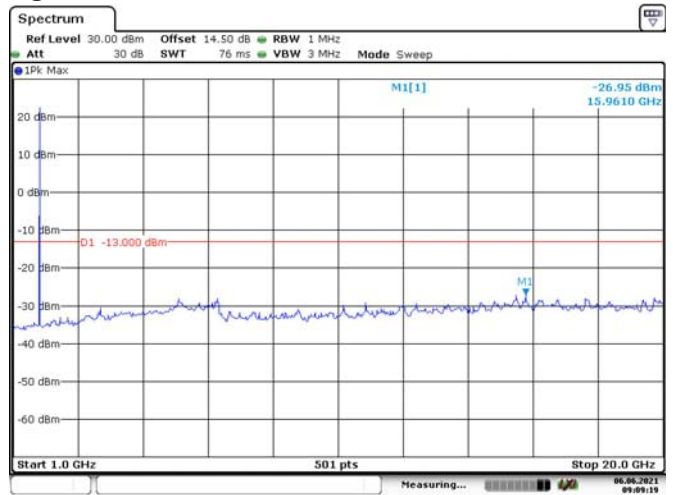


Date: 6 JUN. 2021 09:08:29

**1.4M, QPSK, High Channel**

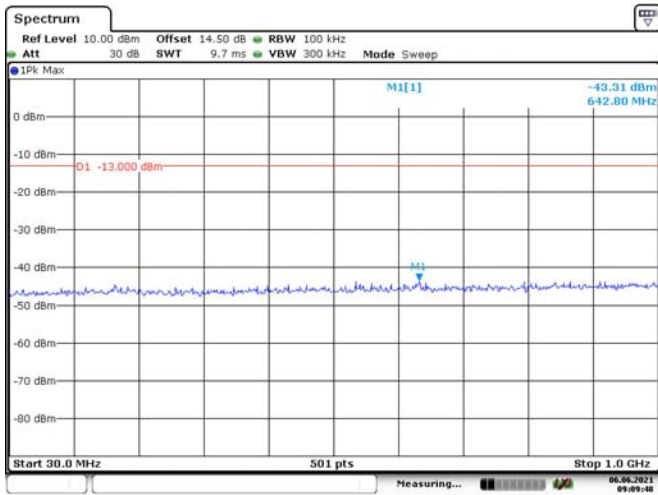


Date: 6 JUN. 2021 09:08:55

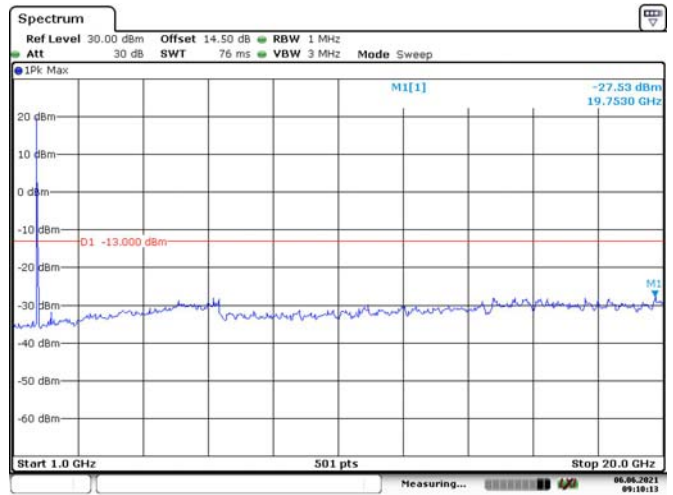


Date: 6 JUN. 2021 09:09:20

### 3M, QPSK, Low Channel

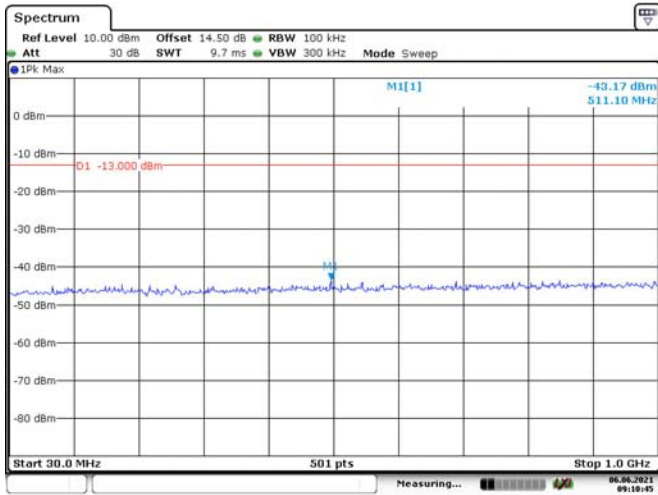


Date: 6 JUN. 2021 09:09:48

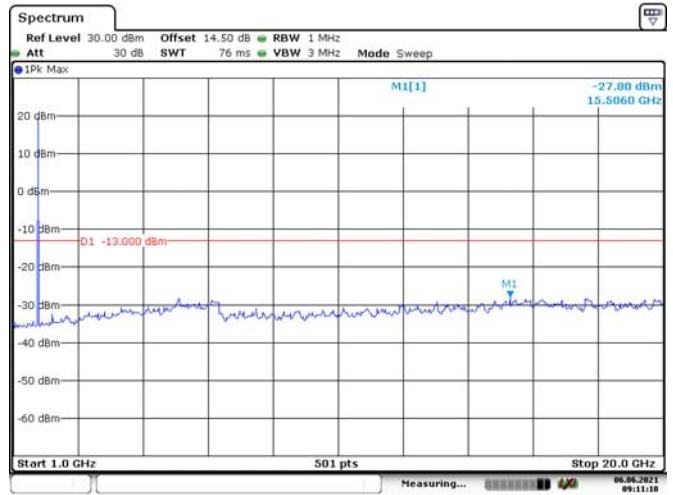


Date: 6 JUN. 2021 09:10:13

### 3M, QPSK, Middle Channel

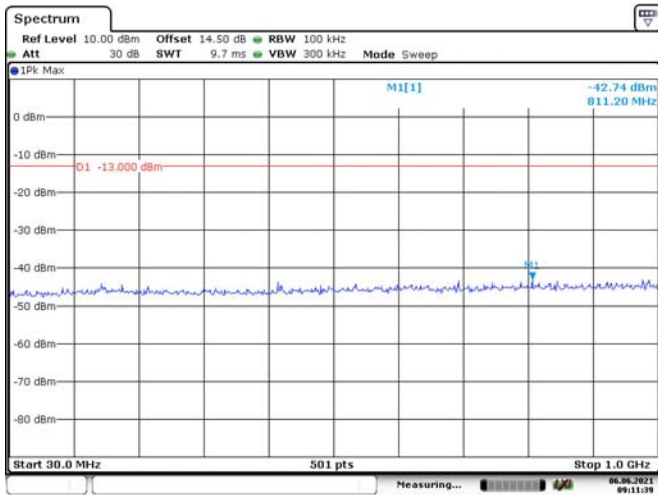


Date: 6 JUN. 2021 09:10:45

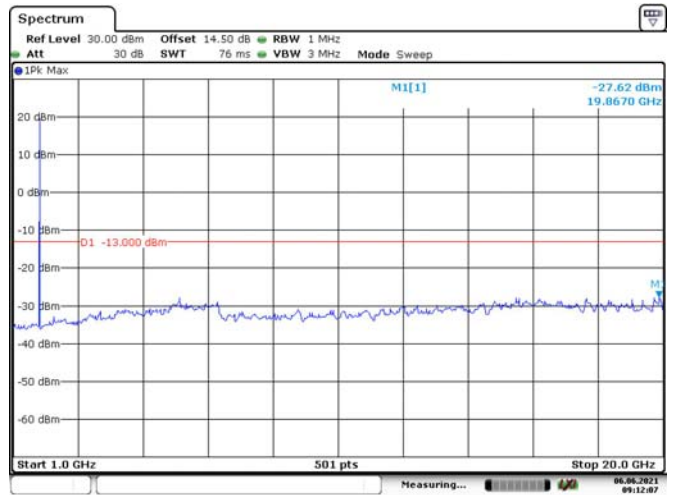


Date: 6 JUN. 2021 09:11:10

### 3M, QPSK, High Channel

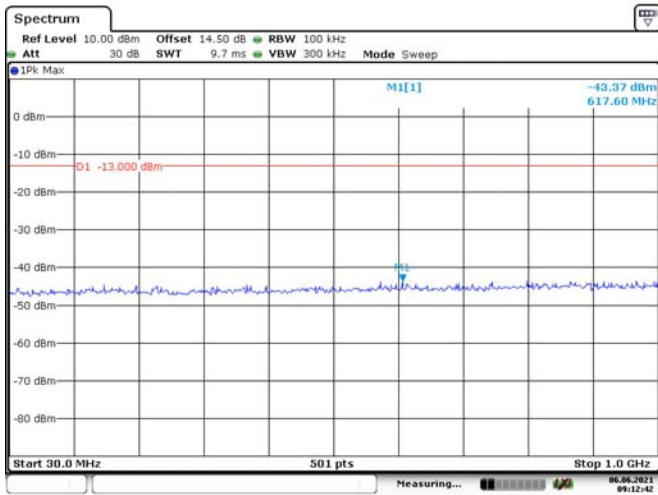


Date: 6 JUN. 2021 09:11:39

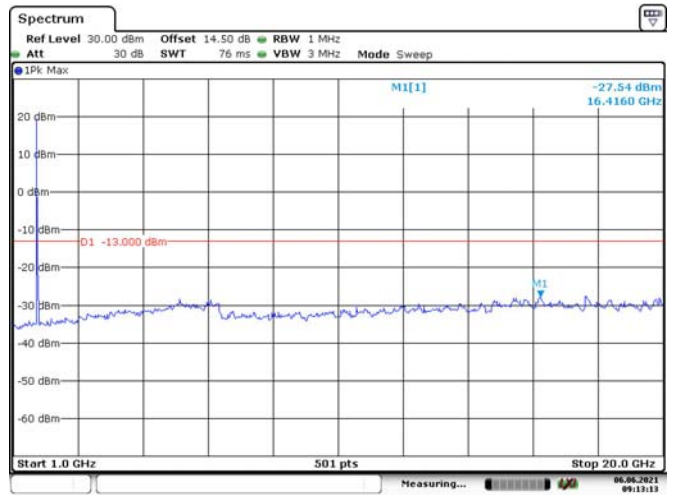


Date: 6 JUN. 2021 09:12:07

5M, QPSK, Low Channel

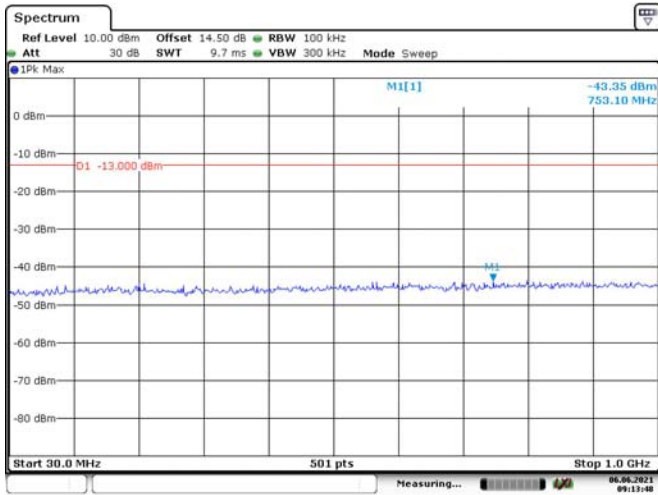


Date: 6 JUN. 2021 09:12:42

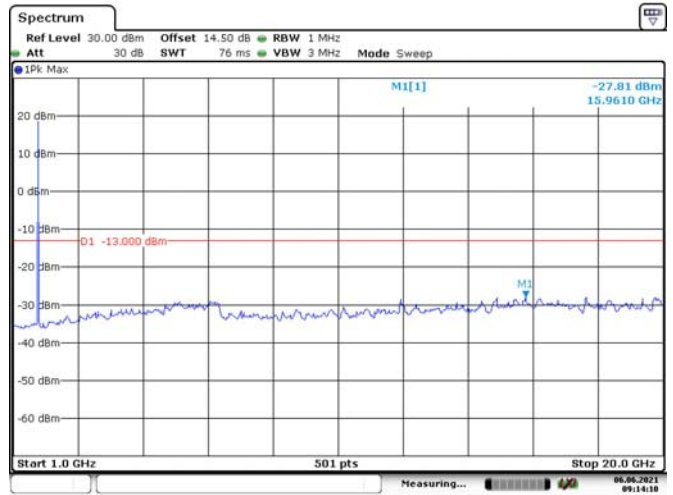


Date: 6 JUN. 2021 09:13:13

5M, QPSK, Middle Channel

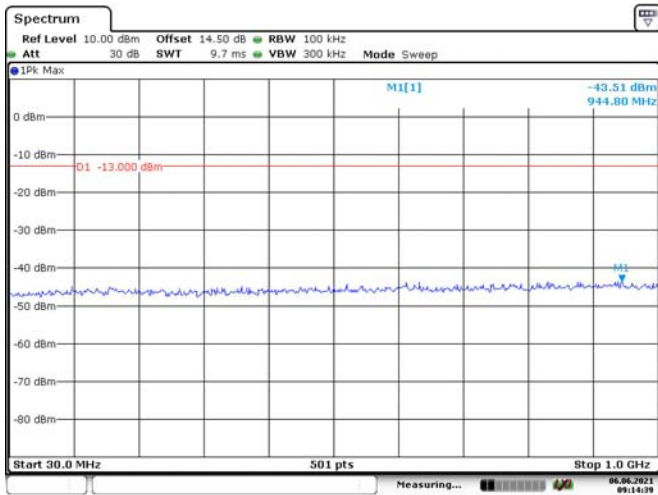


Date: 6 JUN. 2021 09:13:48

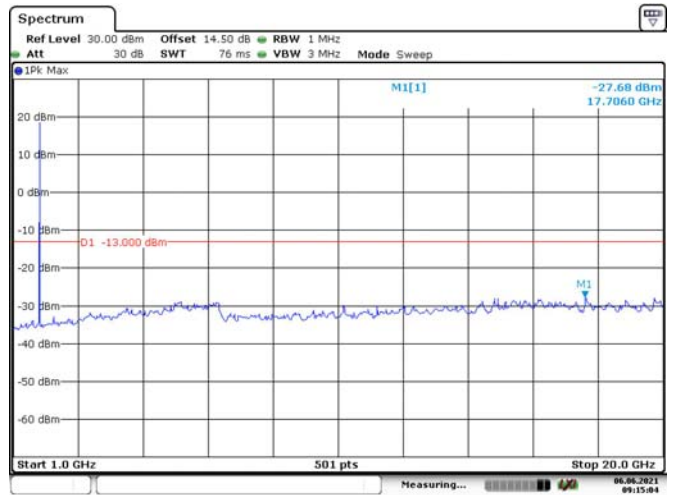


Date: 6 JUN. 2021 09:14:10

5M, QPSK, High Channel

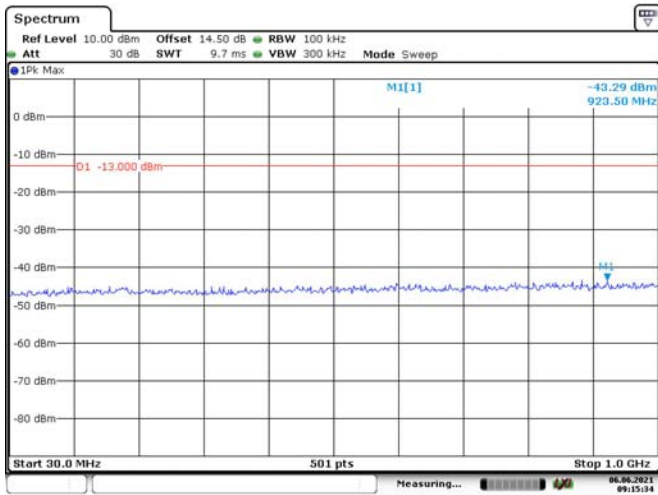


Date: 6 JUN. 2021 09:14:39

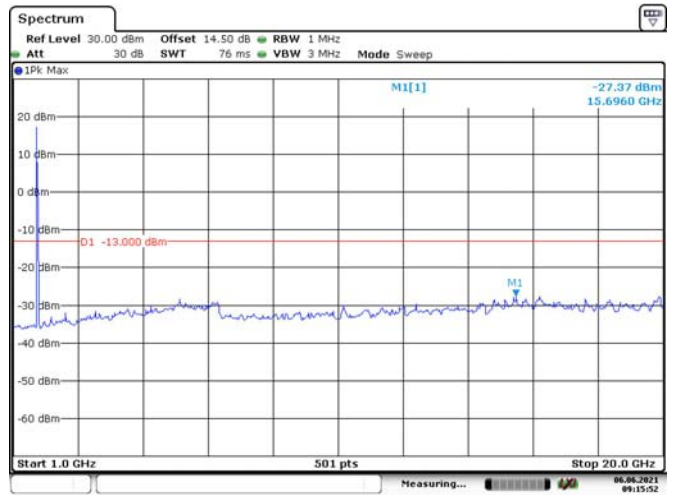


Date: 6 JUN. 2021 09:15:04

### 10M, QPSK, Low Channel

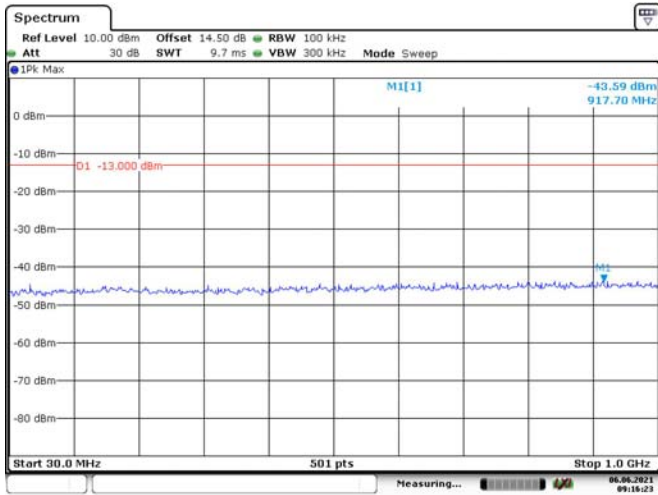


Date: 6 JUN. 2021 09:15:14

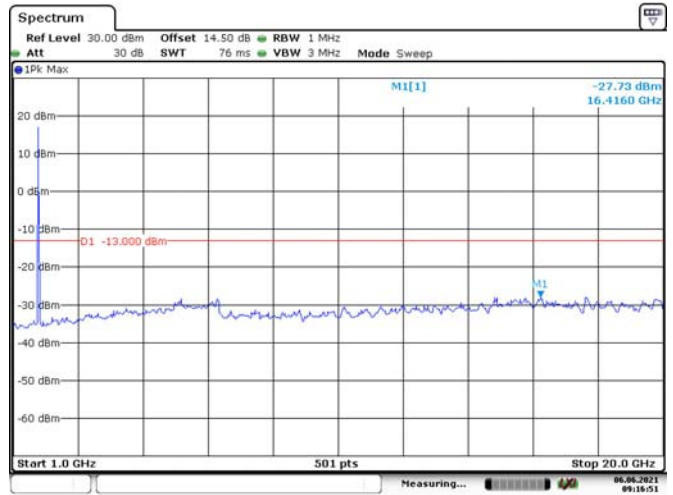


Date: 6 JUN. 2021 09:15:53

### 10M, QPSK, Middle Channel

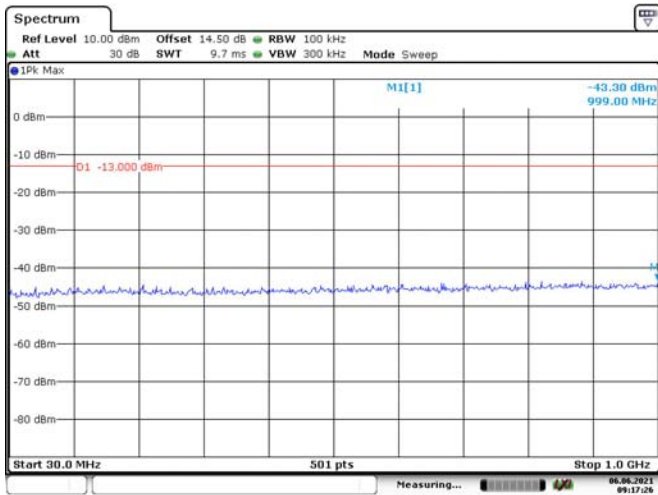


Date: 6 JUN. 2021 09:16:23

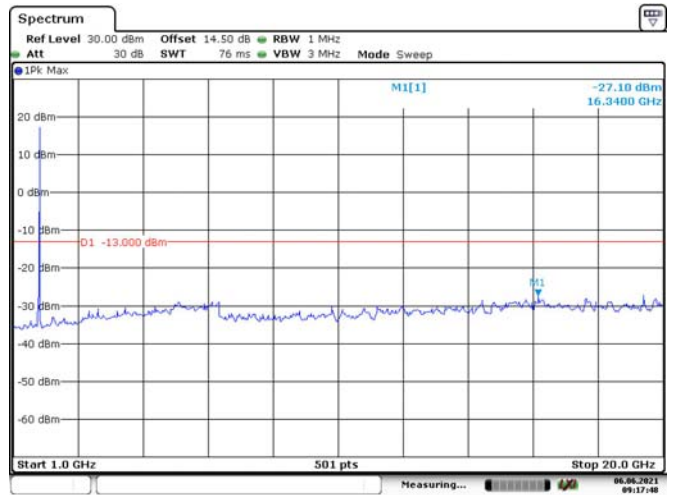


Date: 6 JUN. 2021 09:16:51

### 10M, QPSK, High Channel

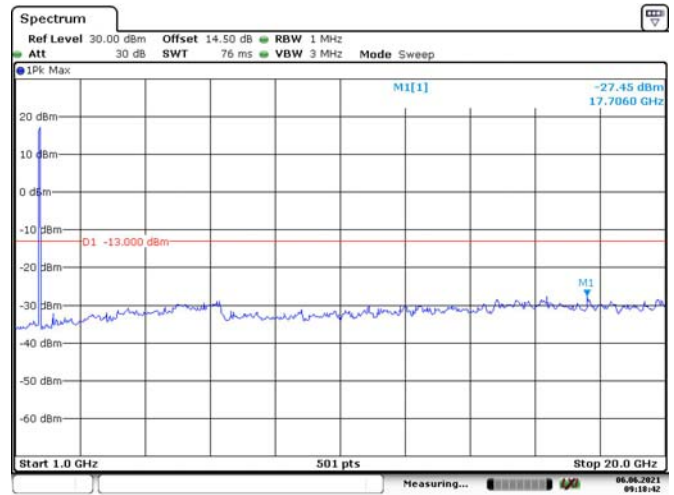
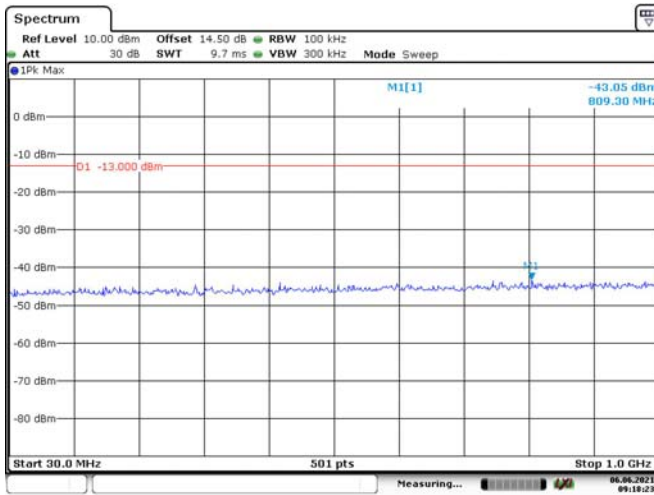


Date: 6 JUN. 2021 09:17:26

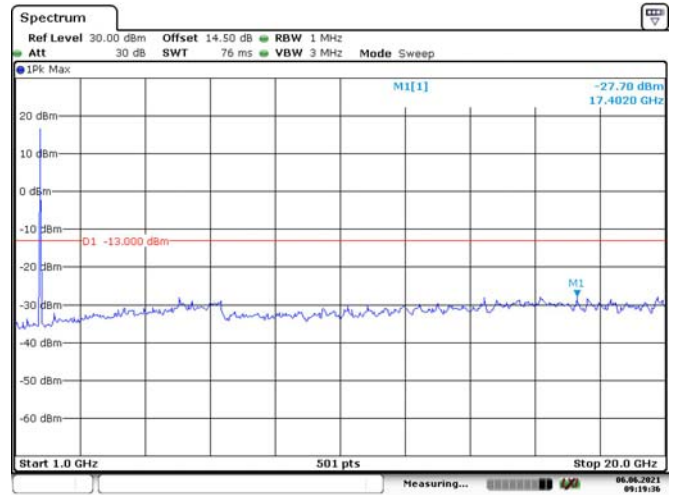
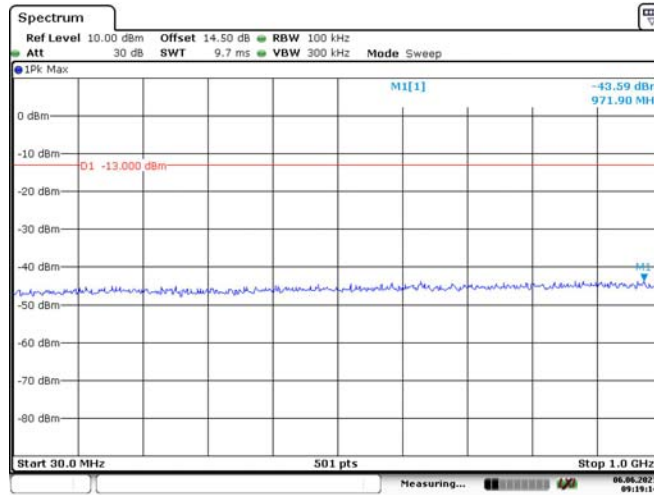


Date: 6 JUN. 2021 09:17:48

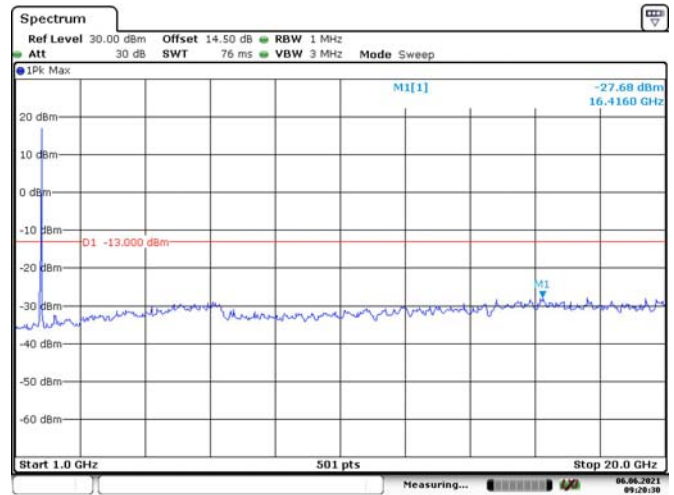
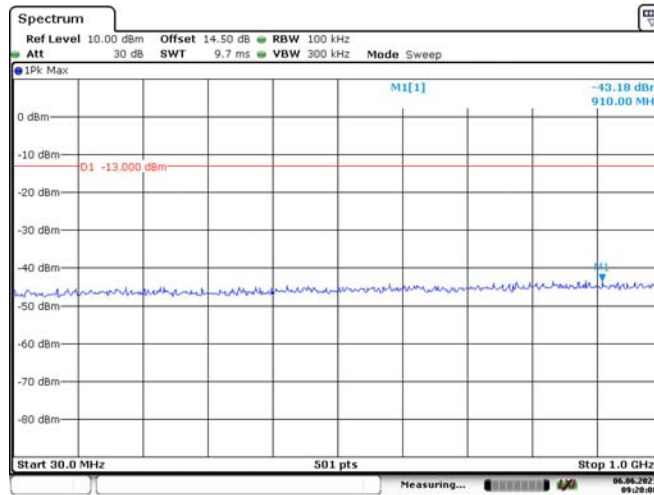
15M, QPSK, Low Channel



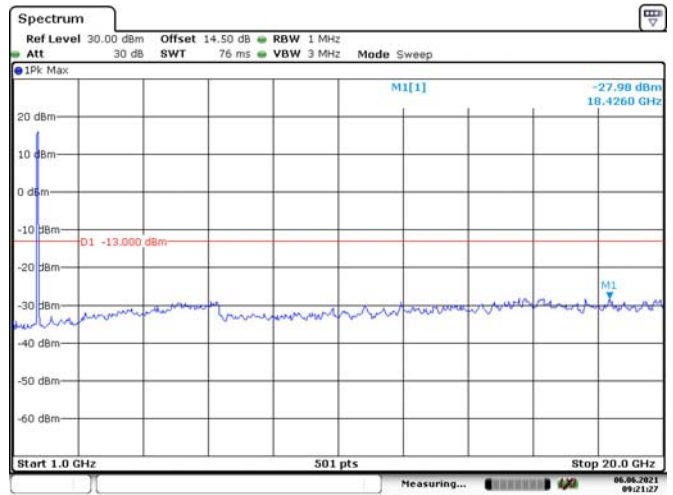
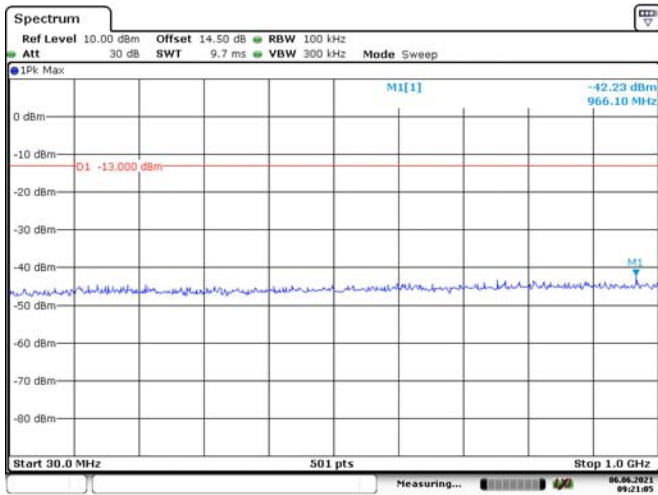
15M, QPSK, Middle Channel



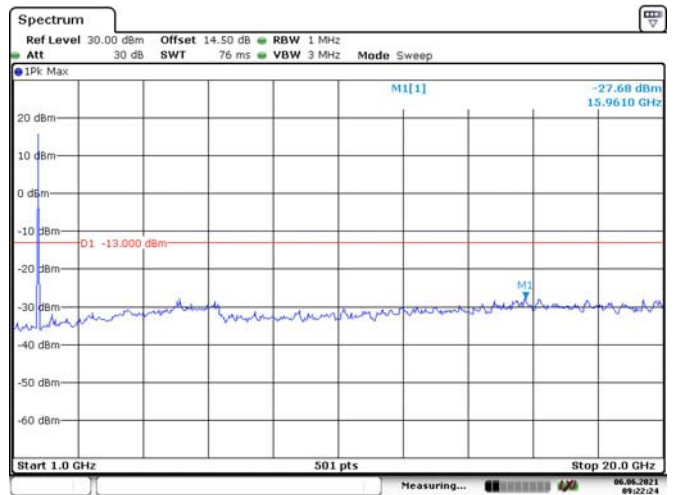
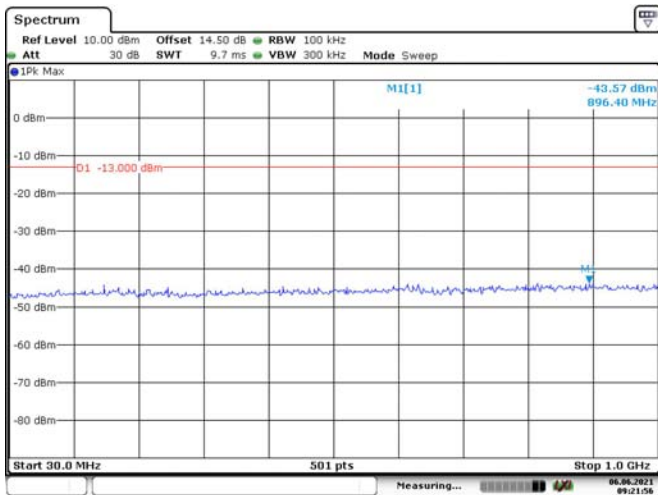
15M, QPSK, High Channel



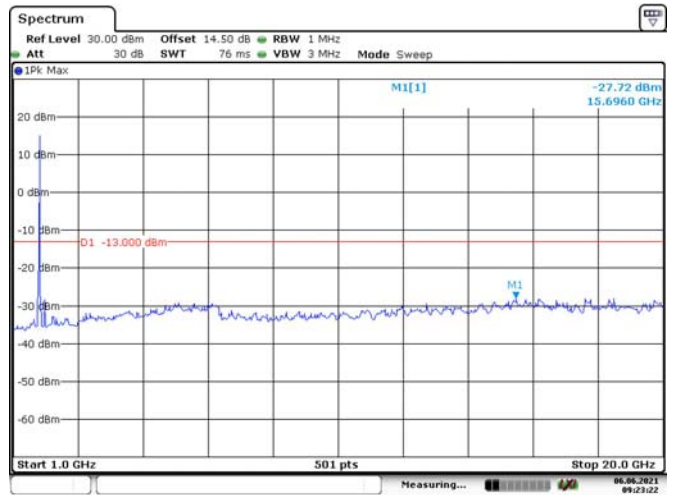
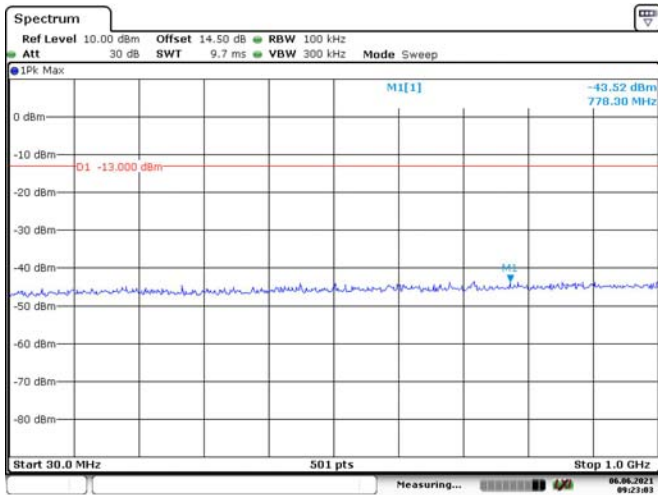
### 20M, QPSK, Low Channel



### 20M, QPSK, Middle Channel



### 20M, QPSK, High Channel



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**FCC §2.1053, §22.917 & §24.238 & §27.53- SPURIOUS RADIATED EMISSIONS**

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**Applicable Standard**

FCC § 2.1053, §22.917, § 24.238 and § 27.53

**Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg (\text{TXpwr in Watts}/0.001)$  – the absolute level

Spurious attenuation limit in dB =  $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-2	2020-08-25	2023-08-25
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2020-09-24	2021-09-24
Sonoma	Amplifier	310N	185914	2020-10-13	2021-10-13
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2020-12-09	2021-12-08
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2020-12-05	2023-12-04
R&S	Spectrum Analyzer	FSP 38	100478	2020-07-07	2021-07-07
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26E A	2020-09-25	2021-09-25
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536- JO	15964001001	2020-06-27	2021-06-27
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2020-12-05	2023-12-04
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-02 1302	2020-12-05	2023-12-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).



**Test Data**

**Environmental Conditions**

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	29.7°C	28.1°C
Relative Humidity:	61 %	58%
ATM Pressure:	100.4kPa	100.4kPa
Tester:	Burt Hu	Carlos Nie
Test Date:	2021.05.17	2021.05.18

Test Result: Compliance.

EUT Operation Mode: Transmitting

**Cellular Band (PART 22H)**

**30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
1648.40	H	49.51	-54.67	10.44	0.71	-44.94	-13.00	31.94
1648.40	V	48.99	-55.79	10.44	0.71	-46.06	-13.00	33.06
2472.60	H	57.87	-44.91	12.88	1.25	-33.28	-13.00	20.28
2472.60	V	62.58	-40.25	12.88	1.25	-28.62	-13.00	15.62
3296.80	H	49.53	-50.25	13.60	1.59	-38.24	-13.00	25.24
3296.80	V	48.71	-51.08	13.60	1.59	-39.07	-13.00	26.07
598.08	H	42.30	-60.19	0.00	0.36	-60.55	-13.00	47.55
595.15	V	45.60	-54.54	0.00	0.36	-54.90	-13.00	41.90
GSM 850 Frequency:836.6MHz								
1673.20	H	60.19	-43.75	10.61	0.73	-33.87	-13.00	20.87
1673.20	V	57.89	-46.65	10.61	0.73	-36.77	-13.00	23.77
2509.80	H	66.57	-36.34	13.11	1.25	-24.48	-13.00	11.48
2509.80	V	68.10	-34.84	13.11	1.25	-22.98	-13.00	9.98
3346.40	H	46.54	-53.14	13.83	1.61	-40.92	-13.00	27.92
3346.40	V	49.66	-50.06	13.83	1.61	-37.84	-13.00	24.84
541.15	H	43.60	-60.58	0.00	0.35	-60.93	-13.00	47.93
166.49	V	45.00	-62.18	0.00	0.24	-62.42	-13.00	49.42
GSM 850 Frequency:848.8MHz								
1697.60	H	63.76	-39.94	10.78	0.75	-29.91	-13.00	16.91
1697.60	V	61.05	-43.25	10.78	0.75	-33.22	-13.00	20.22
2546.40	H	64.92	-38.03	13.15	1.27	-26.15	-13.00	13.15
2546.40	V	66.54	-36.55	13.15	1.27	-24.67	-13.00	11.67
3395.20	H	46.46	-53.06	14.08	1.64	-40.62	-13.00	27.62
3395.20	V	47.89	-51.73	14.08	1.64	-39.29	-13.00	26.29
520.82	H	45.10	-59.69	0.00	0.35	-60.04	-13.00	47.04
384.18	V	46.30	-58.28	0.00	0.37	-58.65	-13.00	45.65

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	41.46	-62.67	10.47	0.72	-52.92	-13.00	39.92
1652.80	V	40.27	-64.46	10.47	0.72	-54.71	-13.00	41.71
2479.20	H	39.70	-63.11	12.93	1.25	-51.43	-13.00	38.43
2479.20	V	41.69	-61.16	12.93	1.25	-49.48	-13.00	36.48
3305.60	H	38.37	-61.43	13.63	1.59	-49.39	-13.00	36.39
3305.60	V	38.56	-61.25	13.63	1.59	-49.21	-13.00	36.21
495.37	H	44.10	-61.37	0.00	0.35	-61.72	-13.00	48.72
541.07	V	47.04	-54.57	0.00	0.35	-54.92	-13.00	41.92
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	42.23	-61.71	10.61	0.73	-51.83	-13.00	38.83
1673.20	V	41.91	-62.63	10.61	0.73	-52.75	-13.00	39.75
2509.80	H	39.75	-63.16	13.11	1.25	-51.30	-13.00	38.30
2509.80	V	42.10	-60.84	13.11	1.25	-48.98	-13.00	35.98
3346.40	H	38.95	-60.73	13.83	1.61	-48.51	-13.00	35.51
3346.40	V	38.33	-61.39	13.83	1.61	-49.17	-13.00	36.17
547.07	H	41.95	-62.06	0.00	0.35	-62.41	-13.00	49.41
598.03	V	43.88	-56.18	0.00	0.36	-56.54	-13.00	43.54
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	43.22	-60.53	10.75	0.75	-50.53	-13.00	37.53
1693.20	V	41.59	-62.76	10.75	0.75	-52.76	-13.00	39.76
2539.80	H	42.76	-60.18	13.14	1.27	-48.31	-13.00	35.31
2539.80	V	44.34	-58.72	13.14	1.27	-46.85	-13.00	33.85
3386.40	H	37.98	-61.57	14.03	1.63	-49.17	-13.00	36.17
3386.40	V	38.21	-61.43	14.03	1.63	-49.03	-13.00	36.03
564.15	H	44.71	-58.79	0.00	0.36	-59.15	-13.00	46.15
551.07	V	47.32	-54.02	0.00	0.36	-54.38	-13.00	41.38

**PCS Band (PART 24E)****30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
3700.40	H	53.30	-44.69	14.00	1.83	-32.52	-13.00	19.52
3700.40	V	51.50	-46.47	14.00	1.83	-34.30	-13.00	21.30
5550.60	H	41.91	-52.06	13.95	1.27	-39.38	-13.00	26.38
5550.60	V	47.09	-46.73	13.95	1.27	-34.05	-13.00	21.05
598.03	H	41.90	-60.59	0.00	0.36	-60.95	-13.00	47.95
597.14	V	43.80	-56.29	0.00	0.36	-56.65	-13.00	43.65
GSM 1900 Frequency:1880MHz								
3760.00	H	53.49	-44.15	13.76	1.63	-32.02	-13.00	19.02
3760.00	V	48.68	-48.82	13.76	1.63	-36.69	-13.00	23.69
5640.00	H	41.05	-52.54	14.02	1.31	-39.83	-13.00	26.83
5640.00	V	45.94	-47.54	14.02	1.31	-34.83	-13.00	21.83
949.23	H	51.22	-42.64	0.00	0.51	-43.15	-13.00	30.15
541.71	V	56.47	-45.12	0.00	0.35	-45.47	-13.00	32.47
GSM 1900 Frequency:1909.8MHz								
3819.60	H	51.50	-45.75	13.56	1.50	-33.69	-13.00	20.69
3819.60	V	47.05	-50.02	13.56	1.50	-37.96	-13.00	24.96
5729.40	H	39.55	-54.16	13.96	1.31	-41.51	-13.00	28.51
5729.40	V	45.48	-48.20	13.96	1.31	-35.55	-13.00	22.55
564.39	H	42.70	-60.79	0.00	0.36	-61.15	-13.00	48.15
590.30	V	46.30	-53.97	0.00	0.36	-54.33	-13.00	41.33

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
3704.80	H	46.94	-51.02	13.98	1.81	-38.85	-13.00	25.85
3704.80	V	42.00	-55.93	13.98	1.81	-43.76	-13.00	30.76
5557.20	H	37.49	-56.40	13.97	1.27	-43.70	-13.00	30.70
5557.20	V	36.45	-57.29	13.97	1.27	-44.59	-13.00	31.59
518.85	H	44.20	-60.65	0.00	0.35	-61.00	-13.00	48.00
536.95	V	46.80	-54.92	0.00	0.35	-55.27	-13.00	42.27
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	46.30	-51.34	13.76	1.63	-39.21	-13.00	26.21
3760.00	V	43.50	-54.00	13.76	1.63	-41.87	-13.00	28.87
5640.00	H	36.85	-56.74	14.02	1.31	-44.03	-13.00	31.03
5640.00	V	38.34	-55.14	14.02	1.31	-42.43	-13.00	29.43
476.29	H	44.10	-61.64	0.00	0.36	-62.00	-13.00	49.00
536.60	V	45.90	-55.83	0.00	0.35	-56.18	-13.00	43.18
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	43.45	-53.83	13.57	1.50	-41.76	-13.00	28.76
3815.20	V	41.59	-55.51	13.57	1.50	-43.44	-13.00	30.44
5722.80	H	37.44	-56.32	13.95	1.32	-43.69	-13.00	30.69
5722.80	V	38.44	-55.28	13.95	1.32	-42.65	-13.00	29.65
596.56	H	44.61	-57.92	0.00	0.36	-58.28	-13.00	45.28
547.03	V	48.13	-53.32	0.00	0.35	-53.67	-13.00	40.67

**LTE Band 2 (30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1852.4 MHz								
3701.40	H	50.40	-47.58	13.99	1.83	-35.42	-13.00	22.42
3701.40	V	44.58	-53.38	13.99	1.83	-41.22	-13.00	28.22
5552.10	H	35.68	-58.27	13.96	1.27	-45.58	-13.00	32.58
5552.10	V	36.32	-57.48	13.96	1.27	-44.79	-13.00	31.79
512.67	H	41.09	-63.94	0.00	0.35	-64.29	-13.00	51.29
569.19	V	44.09	-56.75	0.00	0.36	-57.11	-13.00	44.11
QPSK, Frequency: 1880 MHz								
3760.00	H	47.71	-49.93	13.76	1.63	-37.80	-13.00	24.80
3760.00	V	44.16	-53.34	13.76	1.63	-41.21	-13.00	28.21
5640.00	H	35.87	-57.72	14.02	1.31	-45.01	-13.00	32.01
5640.00	V	36.05	-57.43	14.02	1.31	-44.72	-13.00	31.72
601.23	H	44.62	-57.79	0.00	0.36	-58.15	-13.00	45.15
588.71	V	47.92	-52.40	0.00	0.36	-52.76	-13.00	39.76
QPSK, Frequency: 1907.6MHz								
3818.60	H	42.42	-54.84	13.56	1.50	-42.78	-13.00	29.78
3818.60	V	40.88	-56.19	13.56	1.50	-44.13	-13.00	31.13
5727.90	H	36.48	-57.24	13.96	1.31	-44.59	-13.00	31.59
5727.90	V	38.65	-55.04	13.96	1.31	-42.39	-13.00	29.39
599.17	H	43.06	-59.39	0.00	0.36	-59.75	-13.00	46.75
603.67	V	44.71	-55.21	0.00	0.36	-55.57	-13.00	42.57

**LTE Band 4 (30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	53.63	-45.77	14.04	1.63	-33.36	-13.00	20.36
3421.40	V	51.43	-48.05	14.04	1.63	-35.64	-13.00	22.64
5132.10	H	36.29	-58.39	13.93	1.37	-45.83	-13.00	32.83
5132.10	V	37.46	-57.13	13.93	1.37	-44.57	-13.00	31.57
496.18	H	42.82	-62.64	0.00	0.35	-62.99	-13.00	49.99
556.10	V	45.57	-55.63	0.00	0.36	-55.99	-13.00	42.99
QPSK, Frequency: 1732.5 MHz								
3465.00	H	56.43	-42.76	13.91	1.62	-30.47	-13.00	17.47
3465.00	V	53.89	-45.33	13.91	1.62	-33.04	-13.00	20.04
5197.50	H	36.69	-58.00	14.00	1.52	-45.52	-13.00	32.52
5197.50	V	37.63	-57.13	14.00	1.52	-44.65	-13.00	31.65
597.13	H	43.28	-59.24	0.00	0.36	-59.60	-13.00	46.60
600.23	V	45.11	-54.89	0.00	0.36	-55.25	-13.00	42.25
QPSK, Frequency: 1754.3 MHz								
3508.60	H	58.16	-40.85	13.83	1.60	-28.62	-13.00	15.62
3508.60	V	51.56	-47.45	13.83	1.60	-35.22	-13.00	22.22
5262.90	H	36.78	-58.31	14.19	1.29	-45.41	-13.00	32.41
5262.90	V	37.01	-58.16	14.19	1.29	-45.26	-13.00	32.26
596.37	H	43.20	-59.34	0.00	0.36	-59.70	-13.00	46.70
511.08	V	45.50	-56.92	0.00	0.35	-57.27	-13.00	44.27

**LTE Band 5(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	43.93	-60.24	10.45	0.71	-50.50	-13.00	37.50
1649.40	V	39.12	-65.65	10.45	0.71	-55.91	-13.00	42.91
2474.10	H	45.08	-57.71	12.89	1.25	-46.07	-13.00	33.07
2474.10	V	44.68	-58.16	12.89	1.25	-46.52	-13.00	33.52
3298.80	H	38.25	-61.56	13.60	1.59	-49.55	-13.00	36.55
3298.80	V	36.68	-63.13	13.60	1.59	-51.12	-13.00	38.12
574.04	H	43.46	-59.74	0.00	0.36	-60.10	-13.00	47.10
588.60	V	44.80	-55.52	0.00	0.36	-55.88	-13.00	42.88
QPSK, Frequency: 836.6 MHz								
1673.00	H	44.55	-59.39	10.61	0.73	-49.51	-13.00	36.51
1673.00	V	40.15	-64.39	10.61	0.73	-54.51	-13.00	41.51
2509.50	H	45.00	-57.91	13.11	1.25	-46.05	-13.00	33.05
2509.50	V	45.45	-57.49	13.11	1.25	-45.63	-13.00	32.63
3346.00	H	36.66	-63.02	13.83	1.61	-50.80	-13.00	37.80
3346.00	V	36.78	-62.94	13.83	1.61	-50.72	-13.00	37.72
593.12	H	44.08	-58.56	0.00	0.36	-58.92	-13.00	45.92
577.40	V	47.51	-53.11	0.00	0.36	-53.47	-13.00	40.47
QPSK, Frequency: 848.3 MHz								
1696.60	H	43.35	-60.36	10.78	0.75	-50.33	-13.00	37.33
1696.60	V	42.84	-61.47	10.78	0.75	-51.44	-13.00	38.44
2544.90	H	45.38	-57.57	13.14	1.27	-45.70	-13.00	32.70
2544.90	V	53.30	-49.78	13.14	1.27	-37.91	-13.00	24.91
3393.20	H	37.42	-62.11	14.07	1.64	-49.68	-13.00	36.68
3393.20	V	37.26	-62.36	14.07	1.64	-49.93	-13.00	36.93
601.70	H	43.61	-58.79	0.00	0.36	-59.15	-13.00	46.15
599.90	V	44.82	-55.19	0.00	0.36	-55.55	-13.00	42.55

**LTE Band 7(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2502.5 MHz								
5005.00	H	42.48	-53.59	14.00	1.43	-41.02	-25.00	16.02
5005.00	V	42.59	-53.24	14.00	1.43	-40.67	-25.00	15.67
7507.50	H	36.77	-51.87	13.20	1.33	-40.00	-25.00	15.00
7507.50	V	36.63	-52.49	13.20	1.33	-40.62	-25.00	15.62
567.48	H	43.20	-60.20	0.00	0.36	-60.56	-25.00	35.56
589.12	V	44.80	-55.50	0.00	0.36	-55.86	-25.00	30.86
QPSK, Frequency: 2535 MHz								
5070.00	H	42.14	-52.97	13.93	1.34	-40.38	-25.00	15.38
5070.00	V	42.75	-52.17	13.93	1.34	-39.58	-25.00	14.58
7605.00	H	36.81	-52.07	13.21	1.40	-40.26	-25.00	15.26
7605.00	V	36.69	-52.59	13.21	1.40	-40.78	-25.00	15.78
590.10	H	42.06	-60.67	0.00	0.36	-61.03	-25.00	36.03
597.65	V	47.48	-52.59	0.00	0.36	-52.95	-25.00	27.95
QPSK, Frequency: 2567.5 MHz								
5135.00	H	42.33	-52.35	13.94	1.38	-39.79	-25.00	14.79
5135.00	V	43.17	-51.42	13.94	1.38	-38.86	-25.00	13.86
7702.50	H	36.84	-52.28	13.40	1.47	-40.35	-25.00	15.35
7702.50	V	36.59	-52.85	13.40	1.47	-40.92	-25.00	15.92
593.20	H	43.28	-59.35	0.00	0.36	-59.71	-25.00	34.71
591.70	V	45.71	-54.52	0.00	0.36	-54.88	-25.00	29.88



**LTE Band 12(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
1399.40	H	38.63	-64.76	9.00	1.20	-56.96	-13.00	43.96
1399.40	V	38.75	-65.24	9.00	1.20	-57.44	-13.00	44.44
2099.10	H	44.19	-57.88	11.41	1.10	-47.57	-13.00	34.57
2099.10	V	45.79	-56.28	11.41	1.10	-45.97	-13.00	32.97
2798.80	H	37.47	-64.25	13.10	1.36	-52.51	-13.00	39.51
2798.80	V	37.38	-64.54	13.10	1.36	-52.80	-13.00	39.80
567.60	H	44.00	-59.40	0.00	0.36	-59.76	-13.00	46.76
597.80	V	47.00	-53.07	0.00	0.36	-53.43	-13.00	40.43
QPSK, Frequency:707.5 MHz								
1415.00	H	39.80	-63.81	9.08	1.22	-55.95	-13.00	42.95
1415.00	V	38.97	-65.16	9.08	1.22	-57.30	-13.00	44.30
2122.50	H	50.26	-51.75	11.27	1.11	-41.59	-13.00	28.59
2122.50	V	47.11	-54.88	11.27	1.11	-44.72	-13.00	31.72
2830.00	H	37.61	-63.81	13.34	1.36	-51.83	-13.00	38.83
2830.00	V	37.93	-63.72	13.34	1.36	-51.74	-13.00	38.74
563.18	H	43.26	-60.27	0.00	0.36	-60.63	-13.00	47.63
569.90	V	45.57	-55.26	0.00	0.36	-55.62	-13.00	42.62
QPSK, Frequency: 715.3 MHz								
1430.60	H	37.84	-66.00	9.15	1.25	-58.10	-13.00	45.10
1430.60	V	39.20	-65.08	9.15	1.25	-57.18	-13.00	44.18
2145.90	H	47.78	-54.18	11.12	1.12	-44.18	-13.00	31.18
2145.90	V	46.99	-54.93	11.12	1.12	-44.93	-13.00	31.93
2861.20	H	37.33	-63.78	13.59	1.35	-51.54	-13.00	38.54
2861.20	V	37.21	-64.16	13.59	1.35	-51.92	-13.00	38.92
603.94	H	44.34	-58.03	0.00	0.36	-58.39	-13.00	45.39
574.12	V	45.16	-55.55	0.00	0.36	-55.91	-13.00	42.91