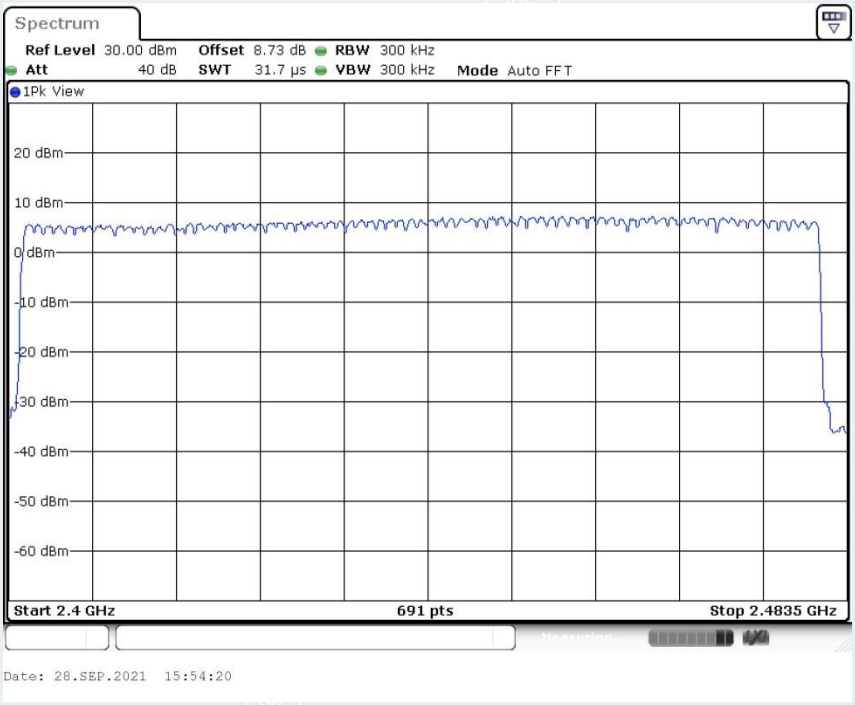
8DPSK

2.400 GHz – 2.4835 GHz



Test result: The unit does meet the FCC requirements.

6.5 DWELL TIME

6.5.1 LIMITS

Regulation 15.247(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

6.5.2 TEST PROCEDURES

1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2) Set spectrum analyzer span = 0. centered on a hopping channel;
3) Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Detector Function = Peak. Trace = Max hold;
4) Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). Repeat this test for each variation.
5) DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds
6) DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slotsTX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds
7) DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slotsTX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds

6.5.3 TEST SETUP

6.5.4 TEST RESULTS

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

GFSK: Middle Channel (2.441GHz)

DH1	time slot=	0.440	(ms)*	(1600/(2*79))	*	31.6	=	140.800	ms
DH3	time slot=	1.680	(ms)*	(1600/(4*79))	*	31.6	=	268.800	ms
DH5	time slot=	2.910	(ms)*	(1600/(6*79))	*	31.6	=	310.400	ms

π/4-DQPSK: Middle Channel (2.441GHz)

2DH1	time slot=	0.390	(ms)*	(1600/(2*79))	*	31.6	=	124.800	ms
2DH3	time slot=	1.630	(ms)*	(1600/(4*79))	*	31.6	=	260.800	ms
2DH5	time slot=	2.870	(ms)*	(1600/(6*79))	*	31.6	=	306.133	ms

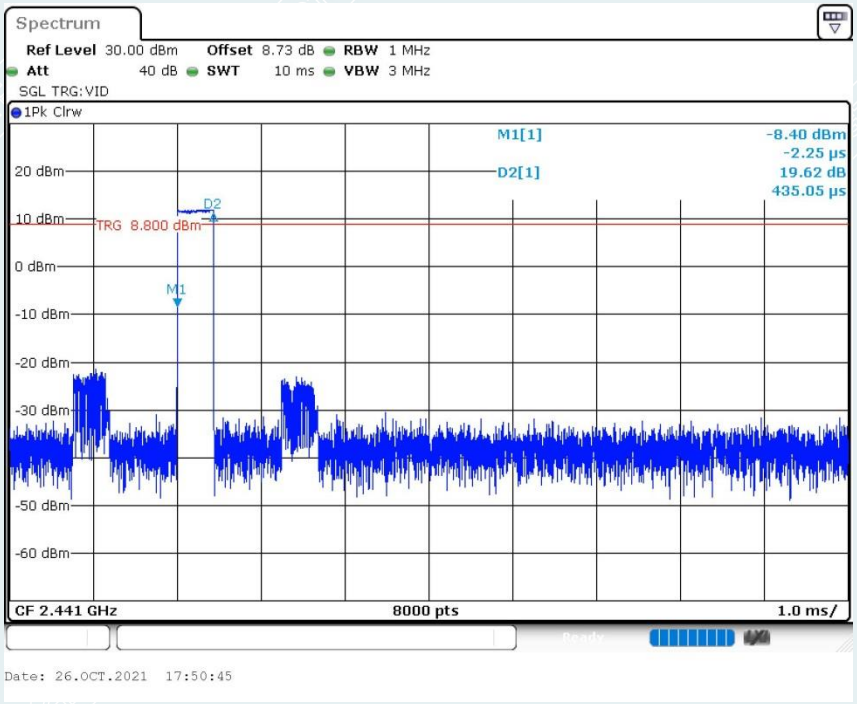
8DPSK: Middle Channel (2.441GHz)

3DH1	time slot=	0.390	(ms)*	(1600/(2*79))	*	31.6	=	124.800	ms
3DH3	time slot=	1.630	(ms)*	(1600/(4*79))	*	31.6	=	260.800	ms
3DH5	time slot=	2.870	(ms)*	(1600/(6*79))	*	31.6	=	306.133	ms

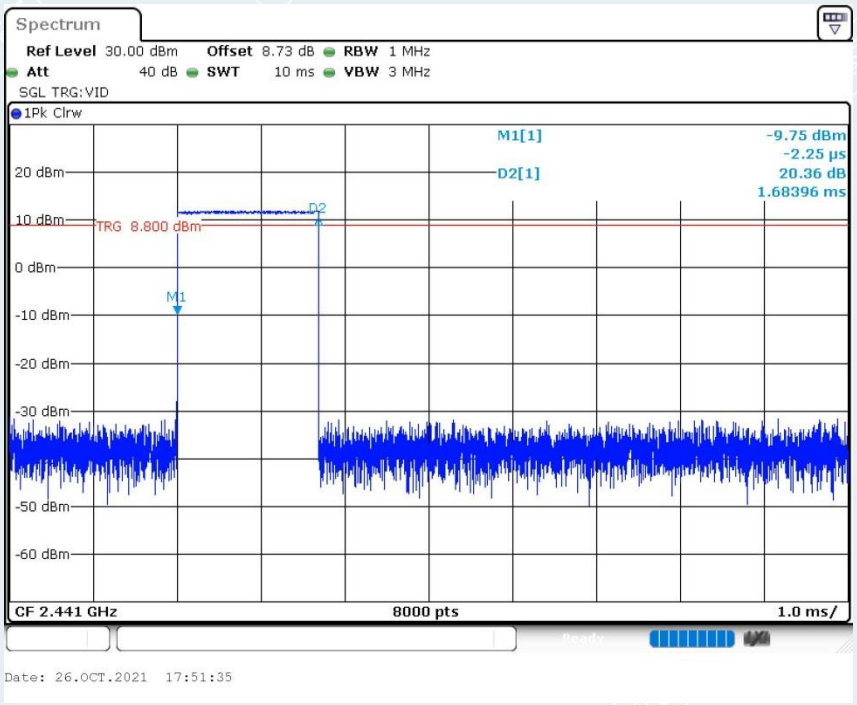
The results are not greater than 0.4 seconds.
The unit does meet the requirements.

Please refer the graph as below:

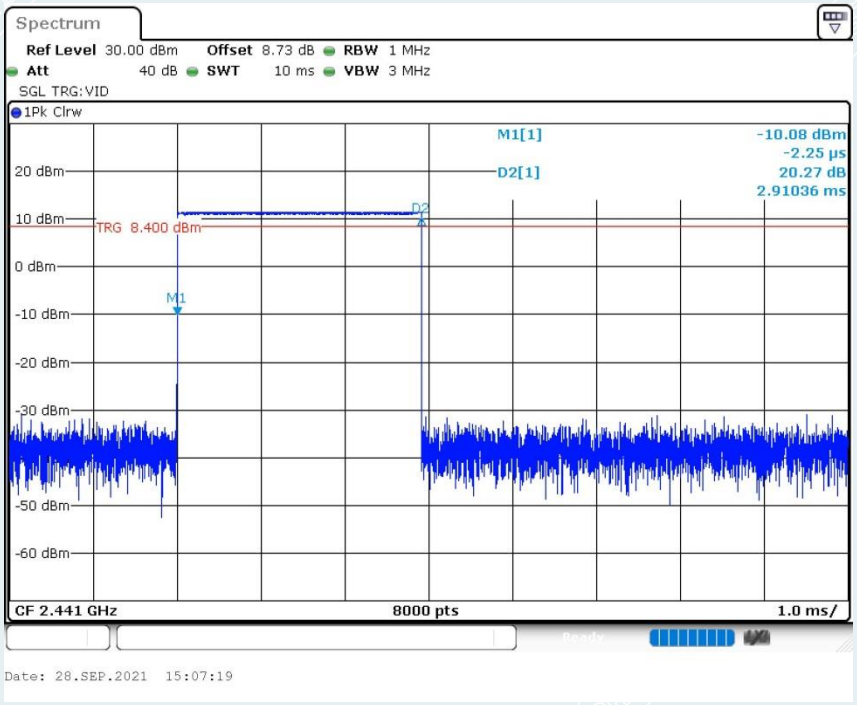
GFSK
Middle Frequency (2.441GHz)
DH1



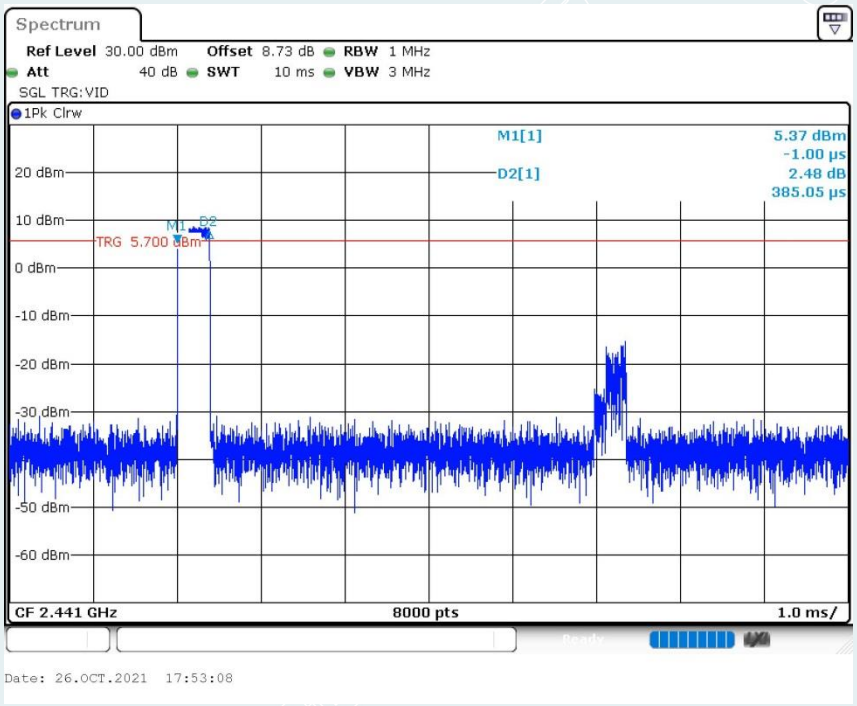
DH3


Spectrum
Ref Level 30.00 dBm Offset 8.73 dB RBW 1 MHz
Att 40 dB SWT 10 ms VBW 3 MHz
SGL TRG:VID
1Pk Clrw
M1[1] -9.75 dBm
-2.25 µs
D2[1] 20.36 dB
1.68396 ms
20 dBm
10 dBm
TRG 8.800 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-50 dBm
-60 dBm
CF 2.441 GHz
8000 pts
1.0 ms/
Date: 26.OCT.2021 17:51:35

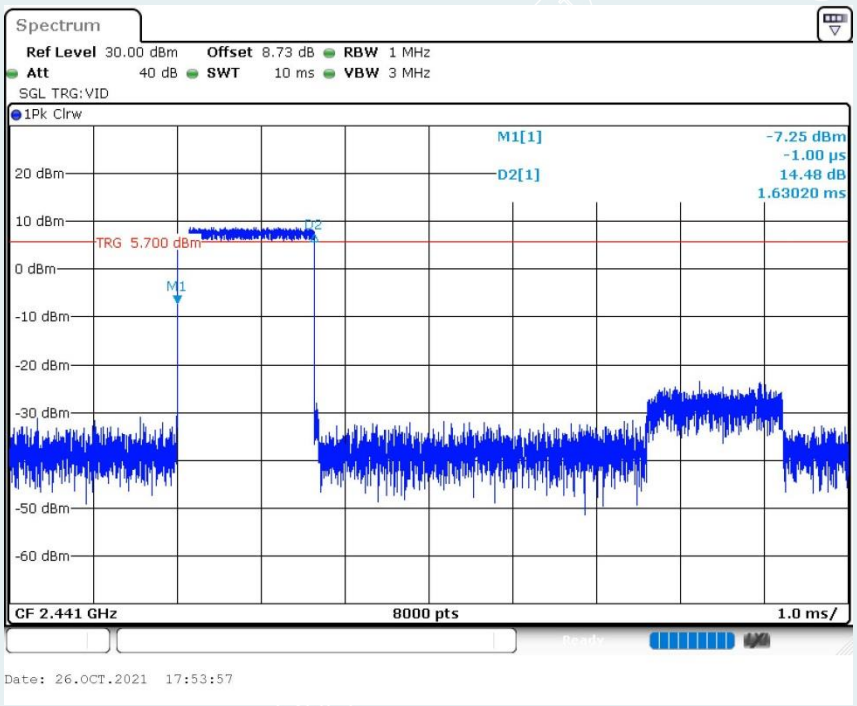
DH5


Spectrum
Ref Level 30.00 dBm Offset 8.73 dB RBW 1 MHz
Att 40 dB SWT 10 ms VBW 3 MHz
SGL TRG:VID
1Pk Clrw
M1[1] -10.08 dBm
-2.25 µs
D2[1] 20.27 dB
2.91036 ms
20 dBm
10 dBm
TRG 8.400 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-50 dBm
-60 dBm
CF 2.441 GHz
8000 pts
1.0 ms/
Date: 28.SEP.2021 15:07:19

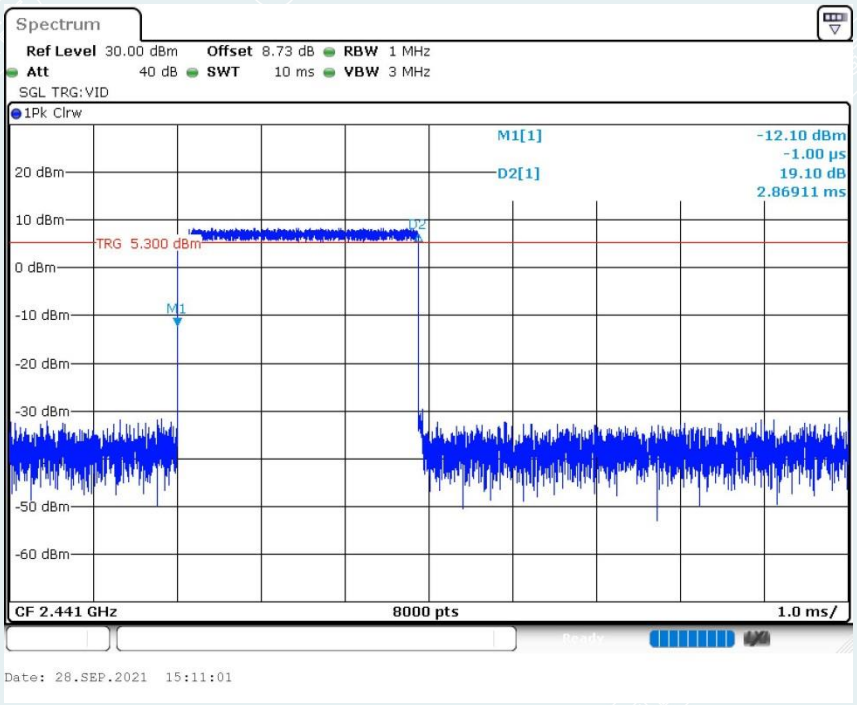
π/4-DQPSK
Middle Frequency (2.441GHz)
2DH1



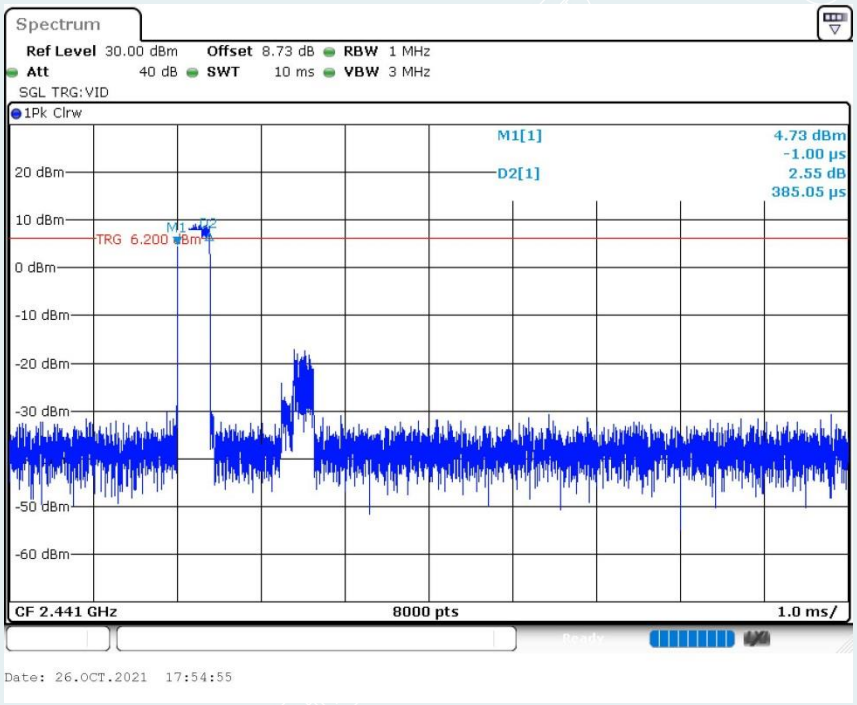
Mid Frequency (2.441GHz)
2DH3



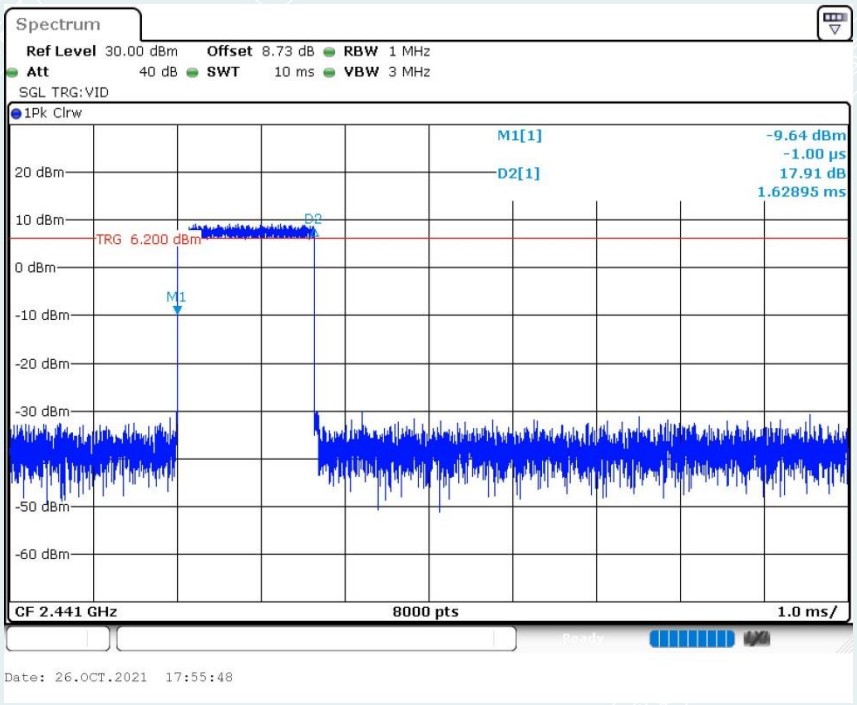
2DH5



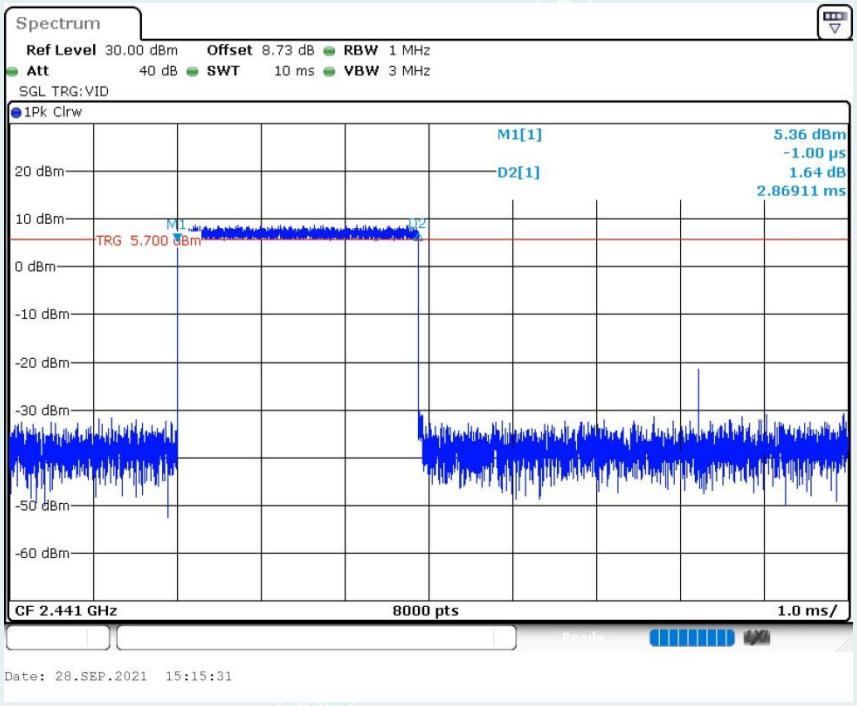
8DPSK
Middle Frequency (2.441GHz)
3DH1



3DH3


Spectrum
Ref Level 30.00 dBm Offset 8.73 dB RBW 1 MHz
Att 40 dB SWT 10 ms VBW 3 MHz
SGL TRG:VID
1Pk Clrw
M1[1] -9.64 dBm
-1.00 µs
D2[1] 17.91 dB
1.62895 ms
20 dBm
10 dBm
TRG 6.200 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-50 dBm
-60 dBm
CF 2.441 GHz
8000 pts
1.0 ms/
Date: 26.OCT.2021 17:55:48

3DH5


Spectrum
Ref Level 30.00 dBm Offset 8.73 dB RBW 1 MHz
Att 40 dB SWT 10 ms VBW 3 MHz
SGL TRG:VID
1Pk Clrw
M1[1] 5.36 dBm
-1.00 µs
D2[1] 1.64 dB
2.86911 ms
20 dBm
10 dBm
TRG 5.700 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-50 dBm
-60 dBm
CF 2.441 GHz
8000 pts
1.0 ms/
Date: 28.SEP.2021 15:15:31

6.6 CONDUCTED EMISSION MEASUREMENT

6.6.1 LIMITS

Frequency range	Limits (dBμV)	
	Quasi-peak	Average
150kHz ～ 0.5MHz	66～56	56～46
0.5 MHz ～ 5 MHz	56	46
5 MHz ～ 30 MHz	60	50

6.6.2 TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

– Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

1) Place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

– All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

– The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

– Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

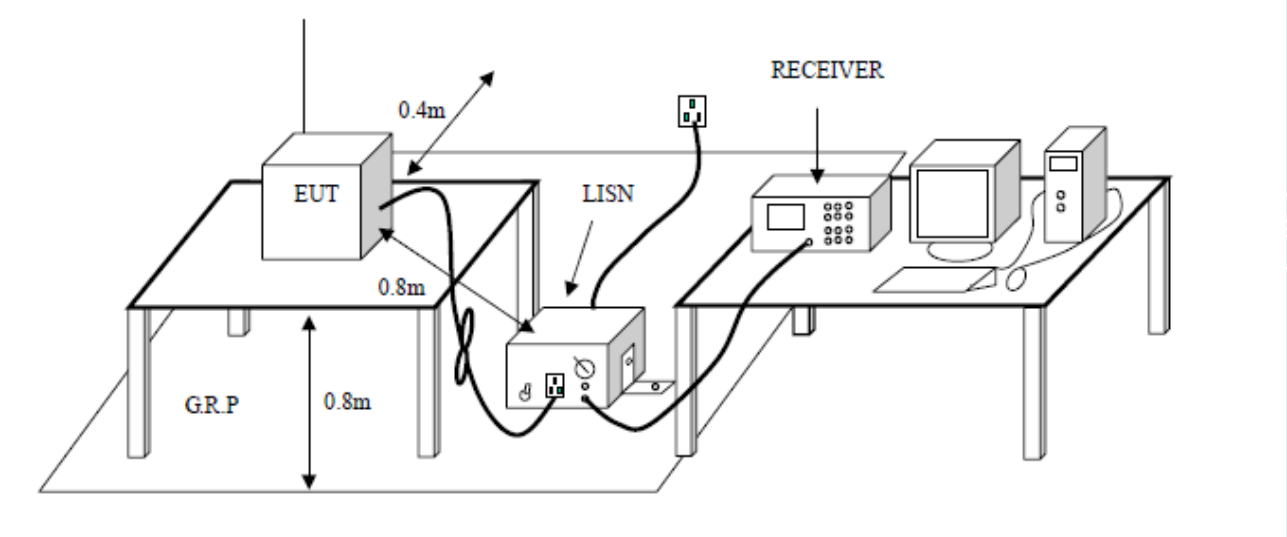
– I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) described in Item 2.5 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.5 producing the highest emission level.The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

6.6.3 TEST SETUP



6.6.4 DATA SAMPLE

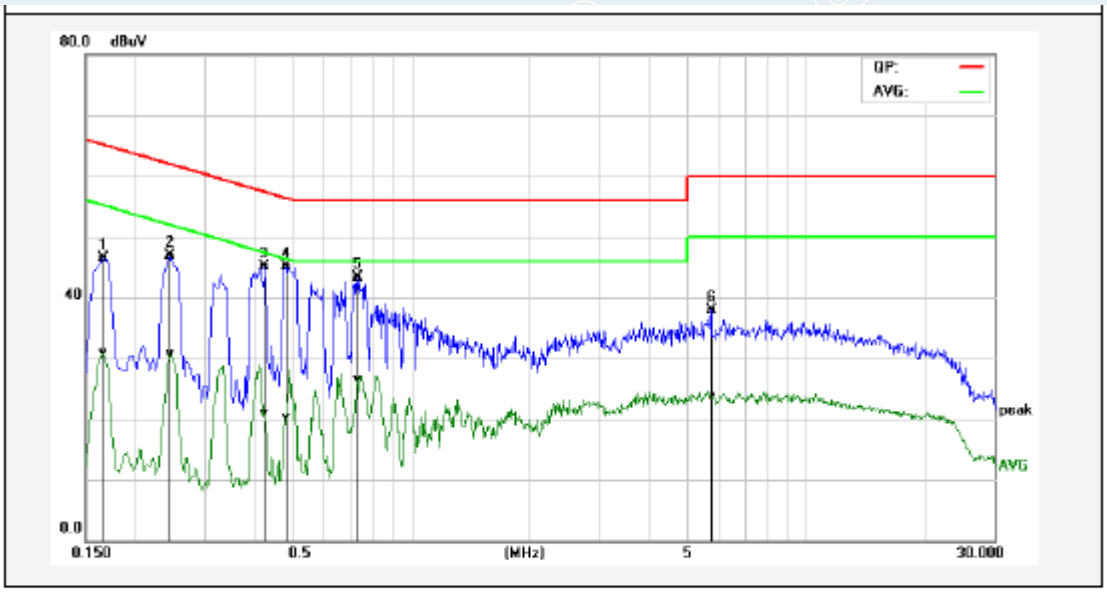
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Reading/ Average Reading + Factor
Limit = Limit stated in standard
Margin = Result (dBuV) – Limit (dBuV)

6.6.5 TEST RESULTS

EUT Name	Watch	Model	W301GB
Environmental Conditions	21.1℃/50%RH	Test Mode	DH5 2480MHz
Tested By	Zhong Fuping	Line	L
Tested Date	2021-10-19	Test Voltage	AC120V/60Hz

(The chart below shows the highest readings taken from the final data.)



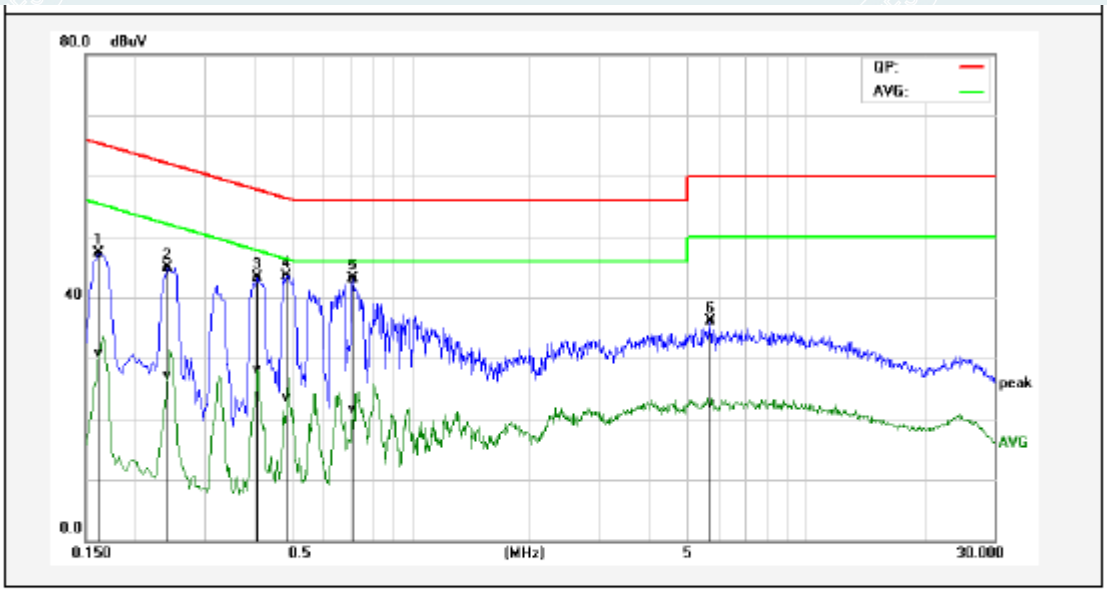
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1660	36.88	21.31	9.61	46.49	30.92	65.15	55.16	-18.66	-24.24	Pass
2	0.2460	37.31	21.08	9.63	46.94	30.71	61.89	51.89	-14.95	-21.18	Pass
3	0.4260	35.46	11.32	9.66	45.12	20.98	57.33	47.33	-12.21	-26.35	Pass
4*	0.4820	35.36	10.69	9.67	45.03	20.36	56.30	46.30	-11.27	-25.94	Pass
5	0.7340	33.68	16.84	9.66	43.34	26.50	56.00	46.00	-12.66	-19.50	Pass
6	5.7460	28.11	14.04	9.76	37.87	23.80	60.00	50.00	-22.13	-26.20	Pass

REMARKS: *L = Live Line*

Pre-scan all mode and recorded the worst case results in this report (TX-High Channel(1Mbps))

EUT Name	Watch	Model	W301GB
Environmental Conditions	21.1℃/50%RH	Test Mode	DH5 2480MHz
Tested By	Zhong Fuping	Line	N
Tested Date	2021-10-19	Test Voltage	AC120V/60Hz

(The chart below shows the highest readings taken from the final data.)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	37.60	21.10	9.60	47.20	30.70	65.36	55.36	-18.16	-24.66	Pass
2	0.2420	35.28	17.39	9.63	44.91	27.02	62.02	52.03	-17.11	-25.01	Pass
3	0.4100	33.69	18.38	9.66	43.35	28.04	57.65	47.65	-14.30	-19.61	Pass
4*	0.4860	33.93	13.79	9.66	43.59	23.45	56.24	46.24	-12.65	-22.79	Pass
5	0.7140	33.40	11.75	9.66	43.06	21.41	56.00	46.00	-12.94	-24.59	Pass
6	5.7180	26.40	12.83	9.76	36.16	22.59	60.00	50.00	-23.84	-27.41	Pass

REMARKS: *N = Neutral Line.*

Pre-scan all mode and recorded the worst case results in this report (TX-High Channel(1Mbps))

6.7 MAXIMUM PEAK OUTPUT POWER

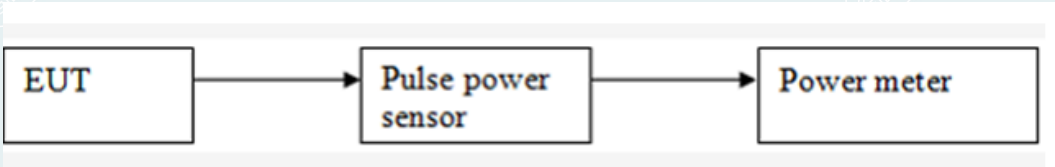
6.7.1 LIMITS

Regulation 15.247 (b)(1)For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

6.7.2 TEST PROCEDURES

1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the power meter and enable the EUT transmit continuously.
2) Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

6.7.3 TEST SETUP



6.7.4 TEST RESULTS

DH5

Test Channel	Fundamental Frequency (GHz)	Max Output Power(dBm)	Limit (dBm)	Peak/ Average	Pass/Fail
Lowest	2.402	11.30	20.97	Peak	Pass
Middle	2.441	10.53			Pass
Highest	2.480	12.31			Pass

2DH5

Test Channel	Fundamental Frequency (GHz)	Max Output Power(dBm)	Limit (dBm)	Peak/ Average	Pass/Fail
Lowest	2.402	8.39	20.97	Peak	Pass
Middle	2.441	9.00			Pass
Highest	2.480	8.63			Pass

3DH5

Test Channel	Fundamental Frequency (GHz)	Max Output Power(dBm)	Limit (dBm)	Peak/ Average	Pass/Fail
Lowest	2.402	8.90	20.97	Peak	Pass
Middle	2.441	9.16			Pass
Highest	2.480	9.27			Pass

Test result: The unit does meet the FCC requirements.

6.8 CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

6.8.1 LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

6.8.2 TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v05r02.

1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
2) Set the spectrum analyzer: RBW =100KHz; VBW =300KHz, Frequency range = 30MHz to 26.5GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
3) Measure and record the results in the test report.
4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

6.8.3 TEST SETUP

6.8.4 TEST RESULTS

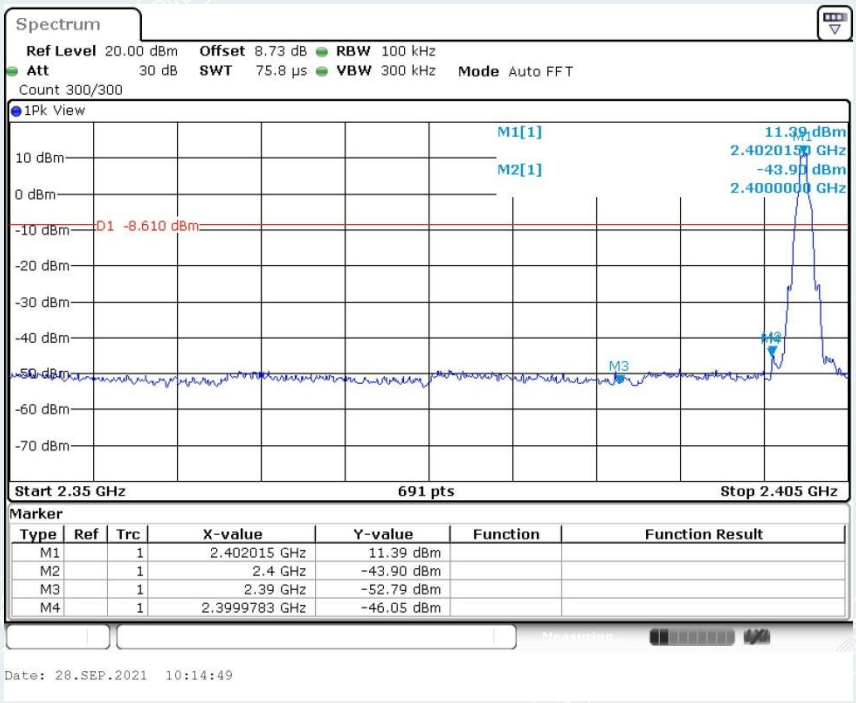
The unit does meet the FCC requirements.

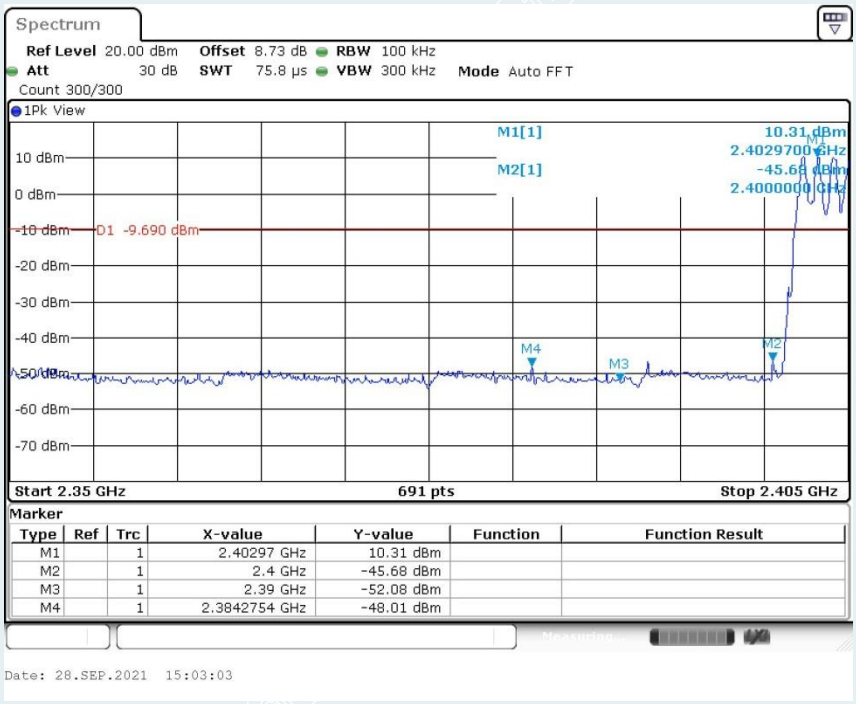
Test result plot as follows:

Band Edges

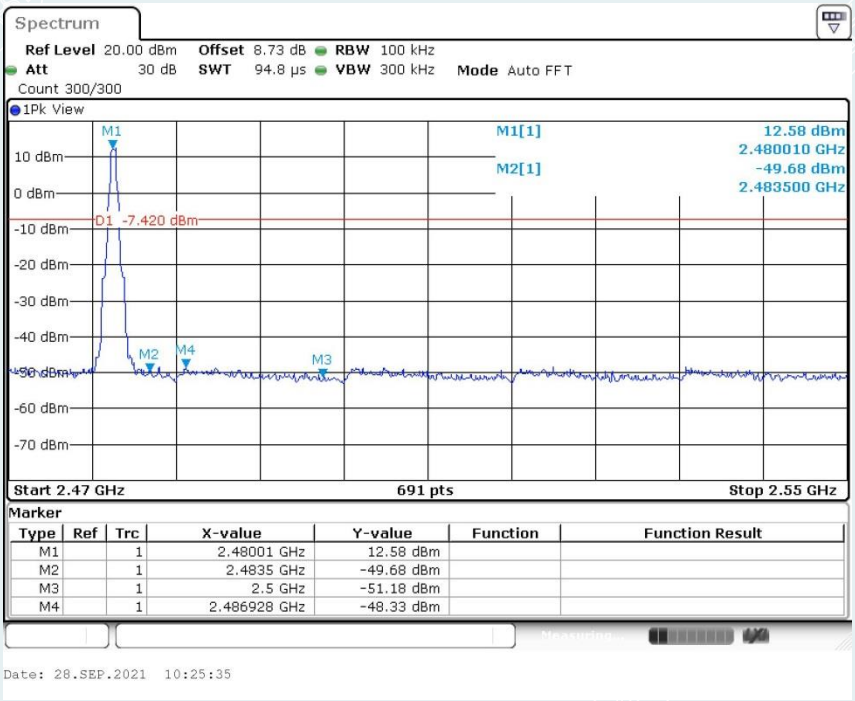
DH5

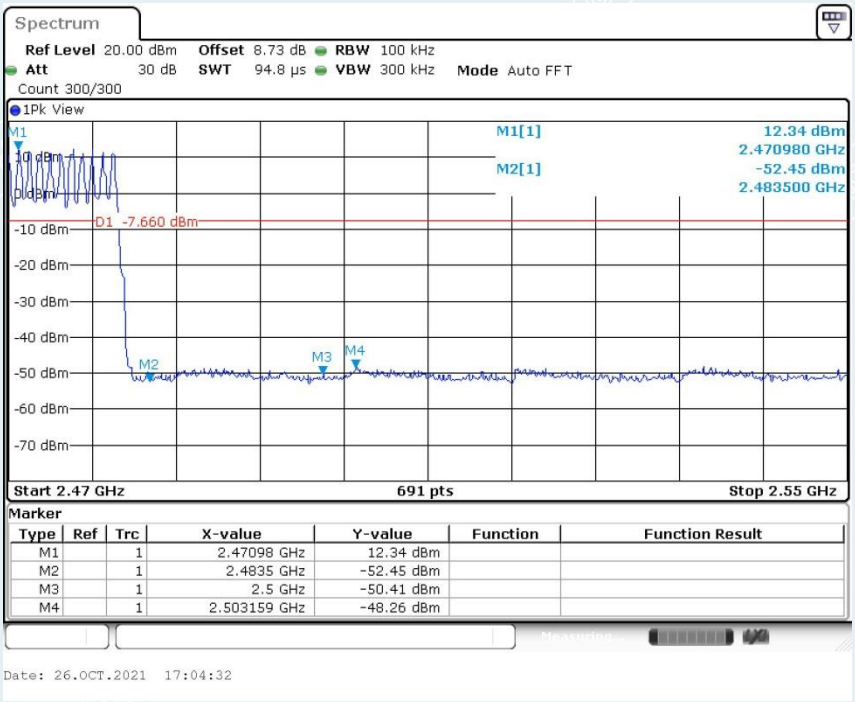
CH Low (2.35GHz ~2.405GHz)



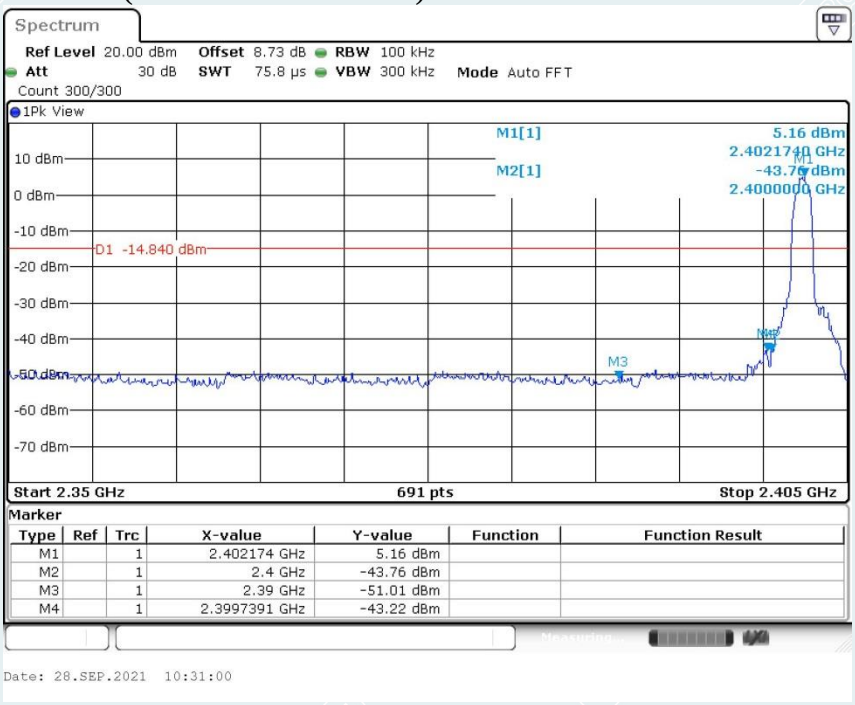


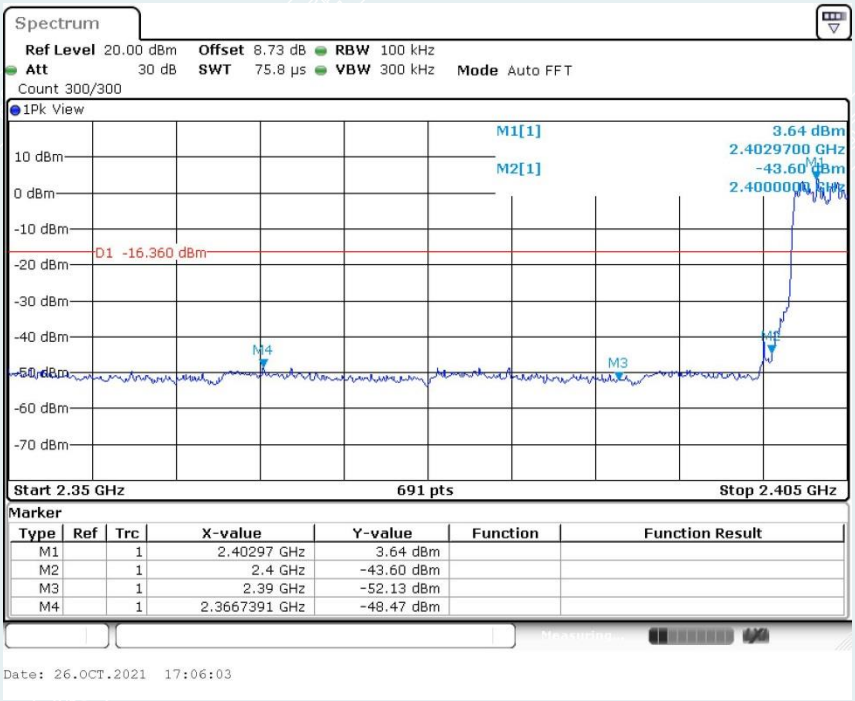
CH High (2.47GHz ~ 2.55GHz)



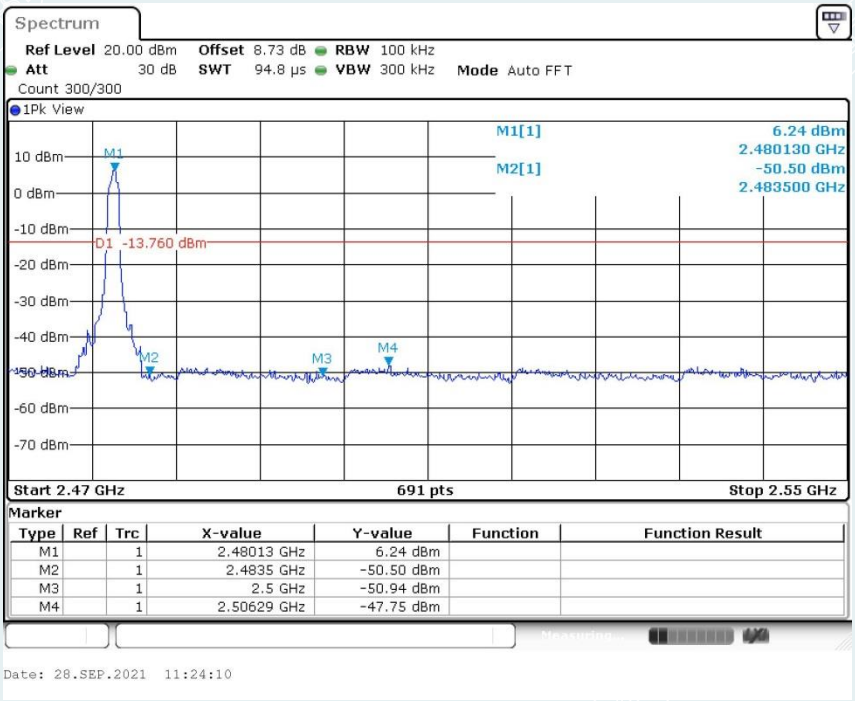


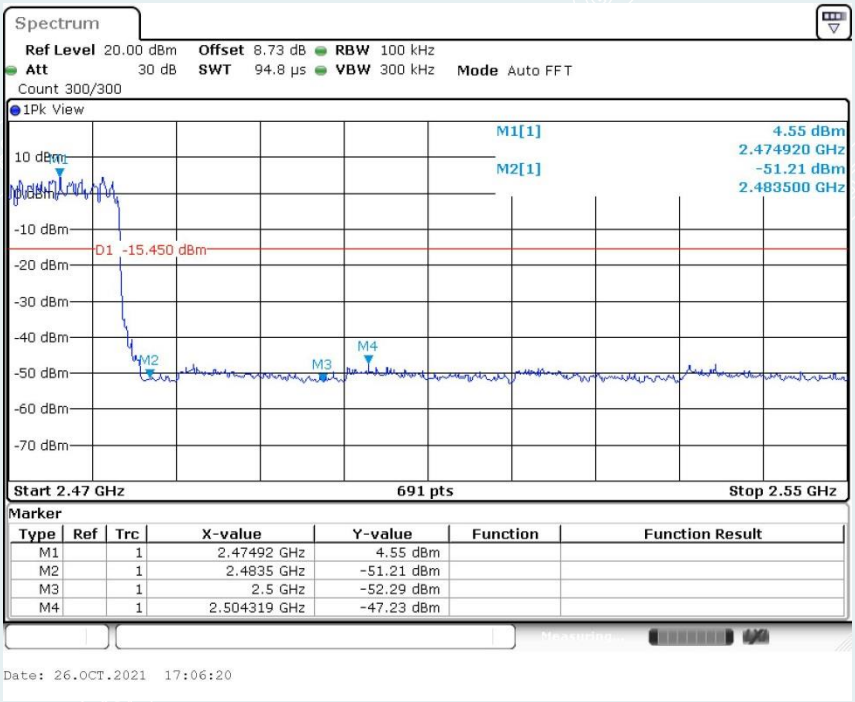
2DH5
CH Low (2.35GHz ~2.405GHz)



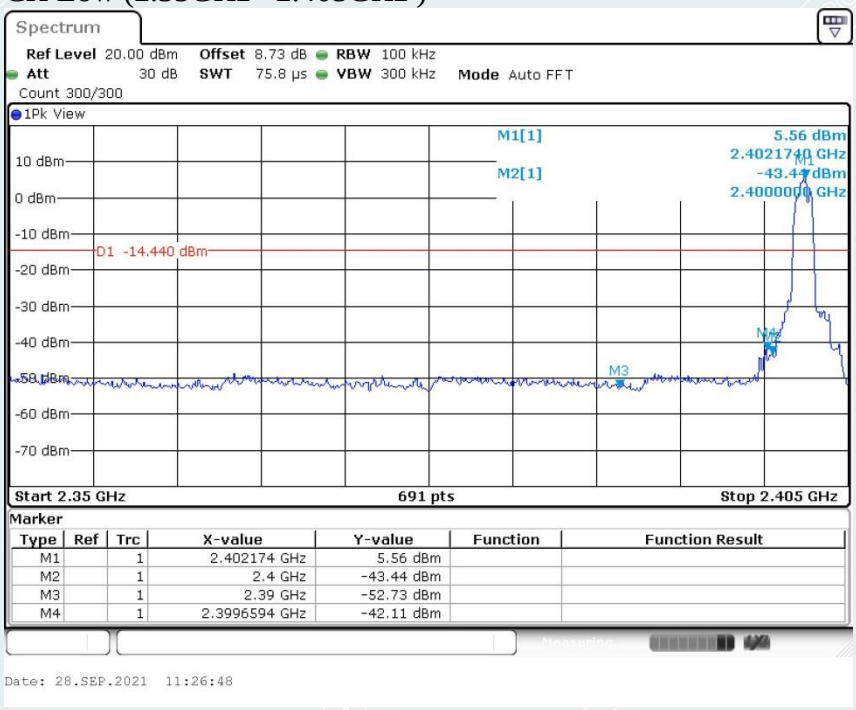


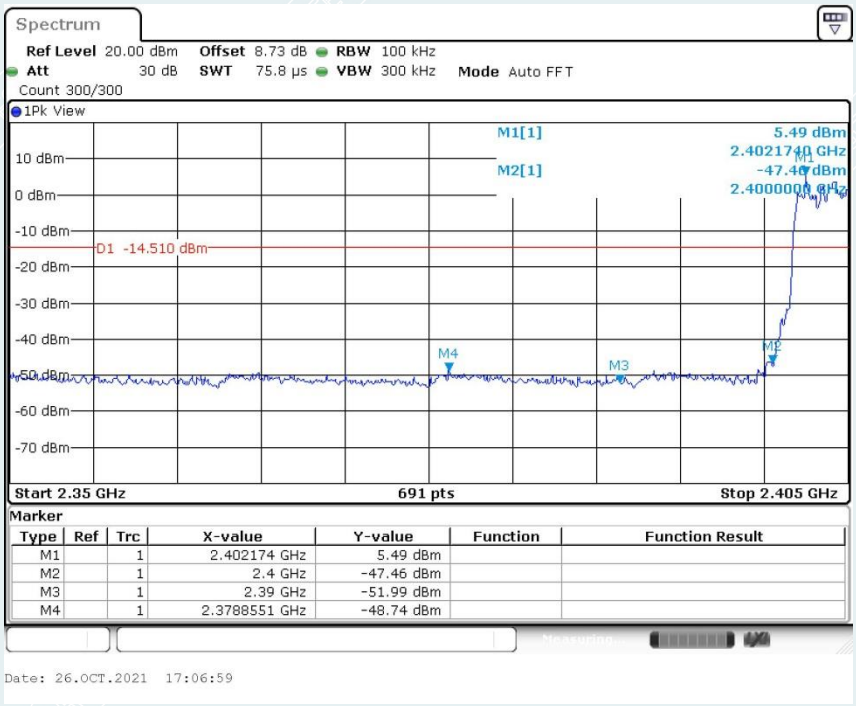
CH High (2.47GHz ~ 2.55GHz)



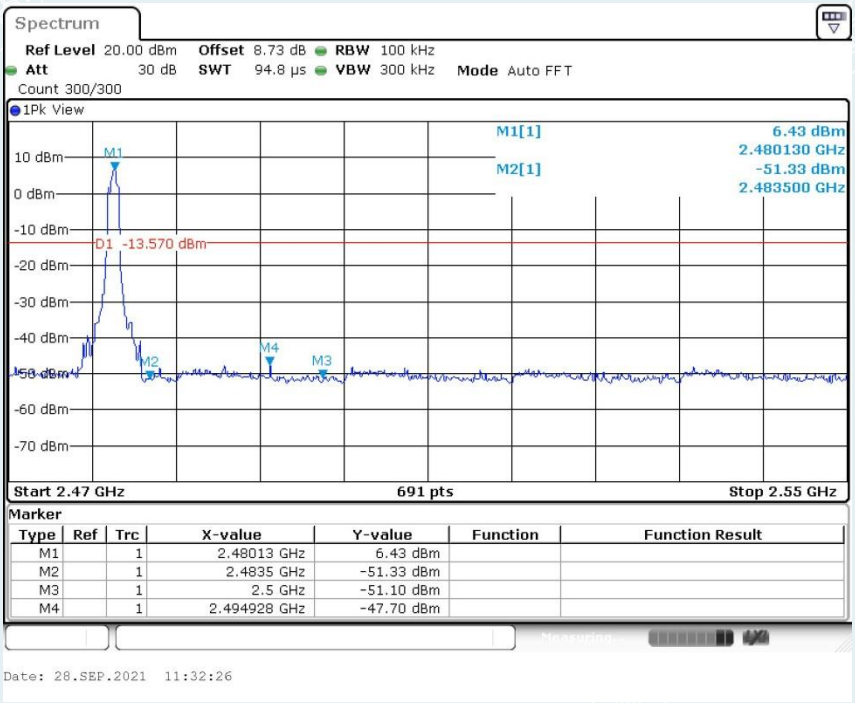


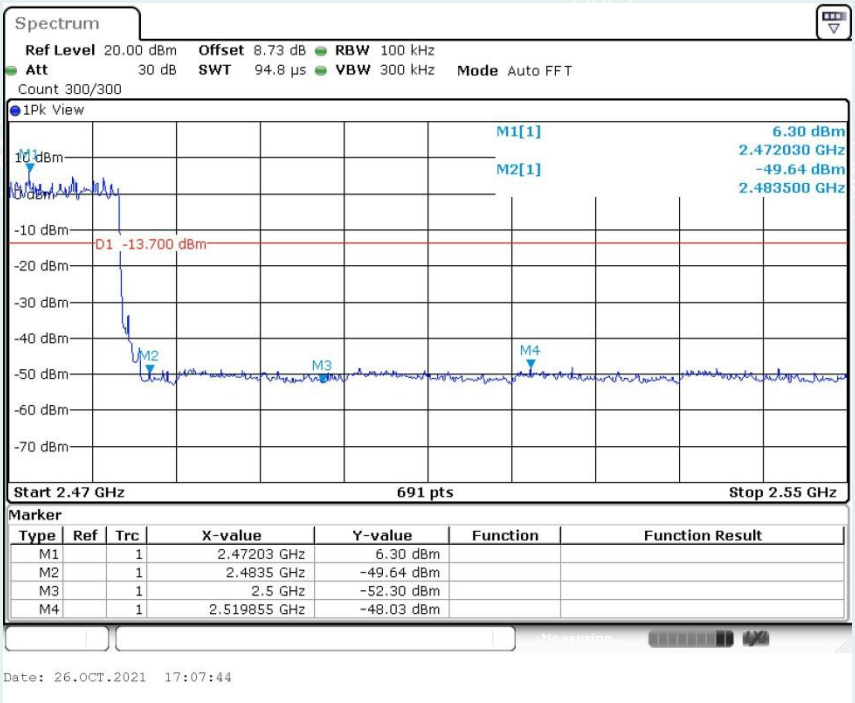
3DH5
CH Low (2.35GHz ~2.405GHz)



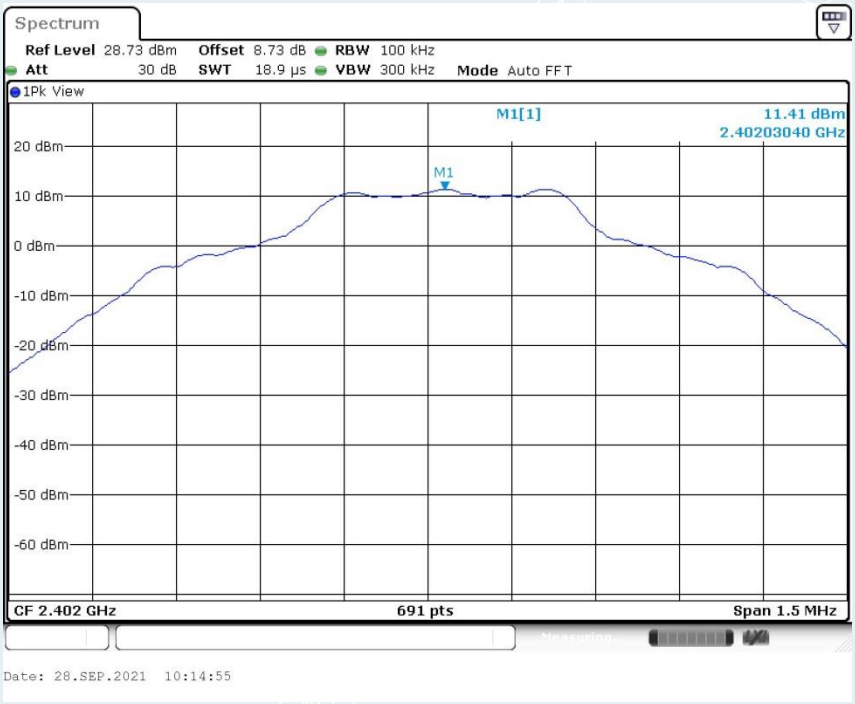


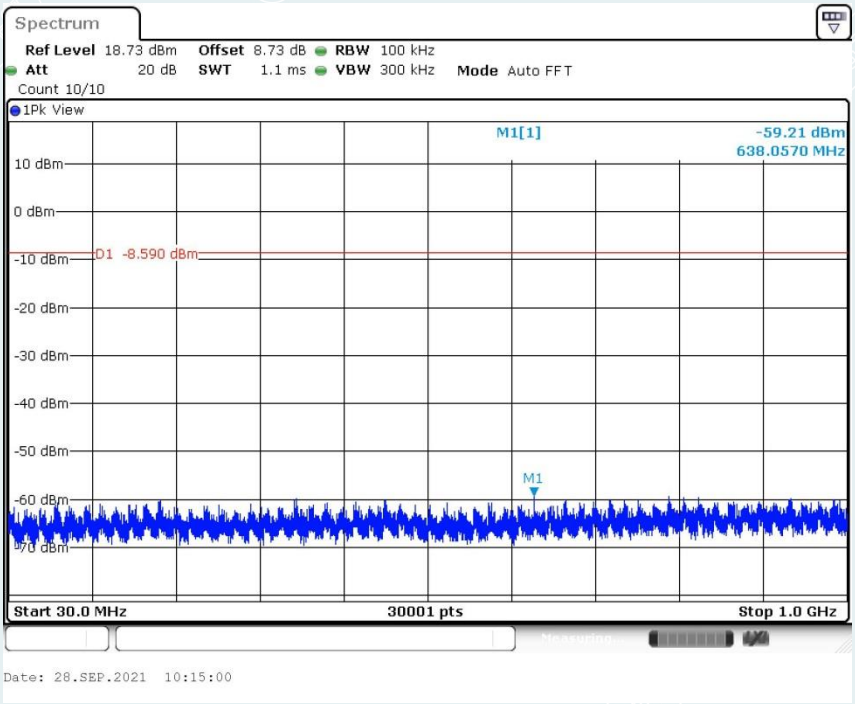
CH High (2.47GHz ~ 2.55GHz)

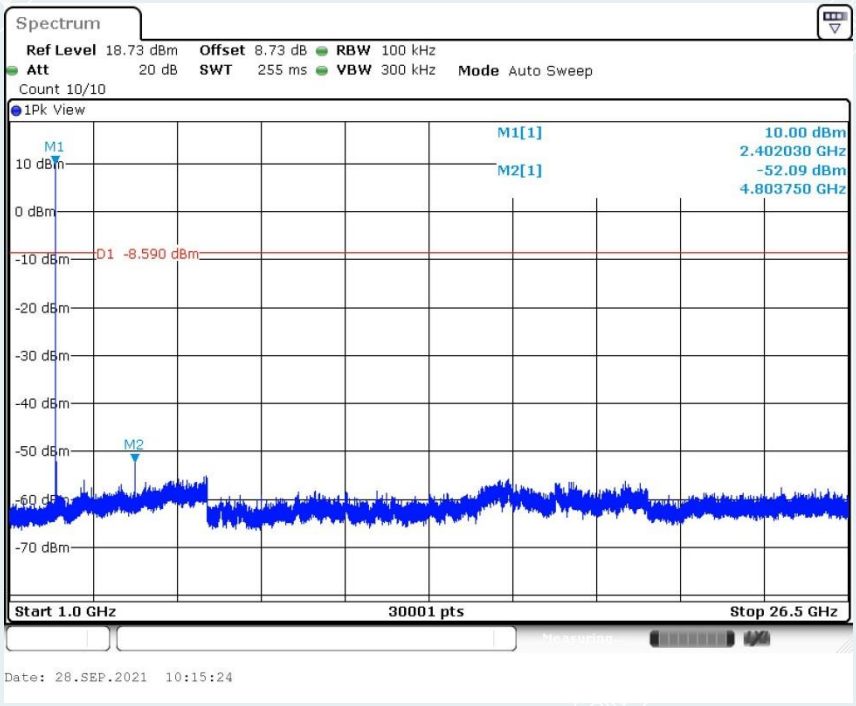




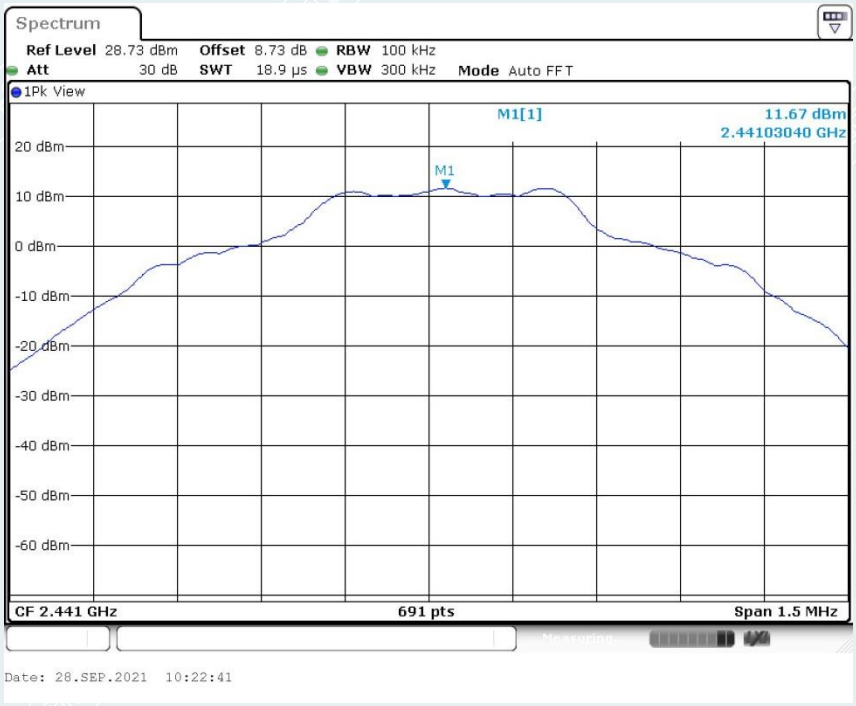
Spurious Emissions
DH5
CH Low

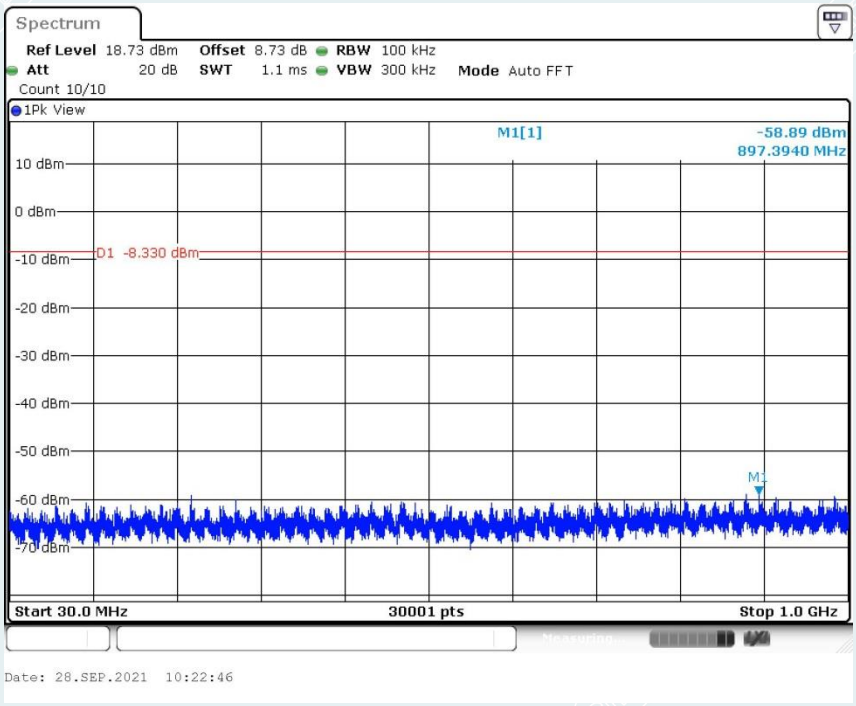


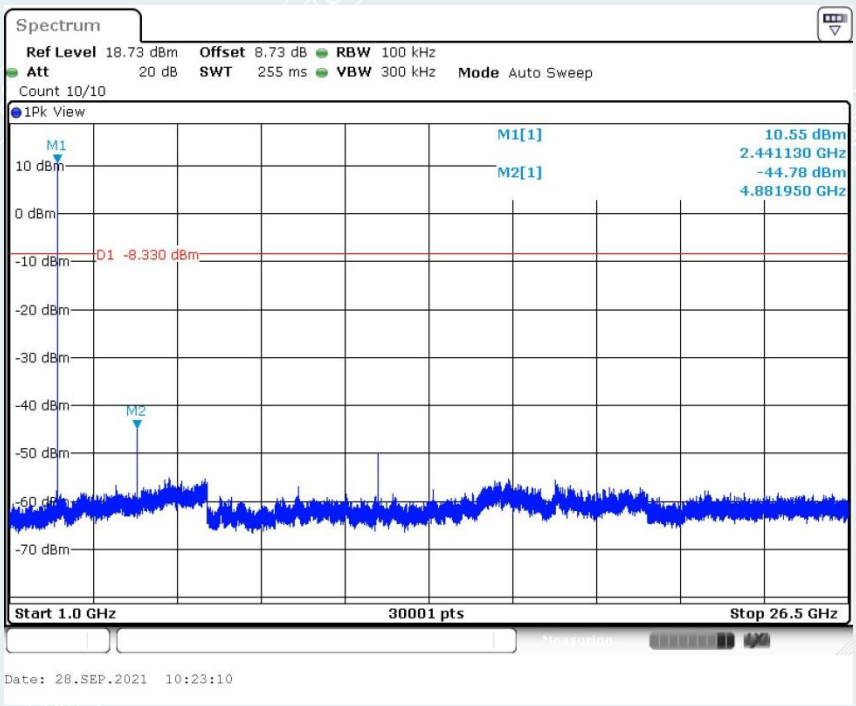



Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 10.00 dBm
2.402030 GHz
M2[1] -52.09 dBm
4.803750 GHz
D1 -8.590 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 28.SEP.2021 10:15:24

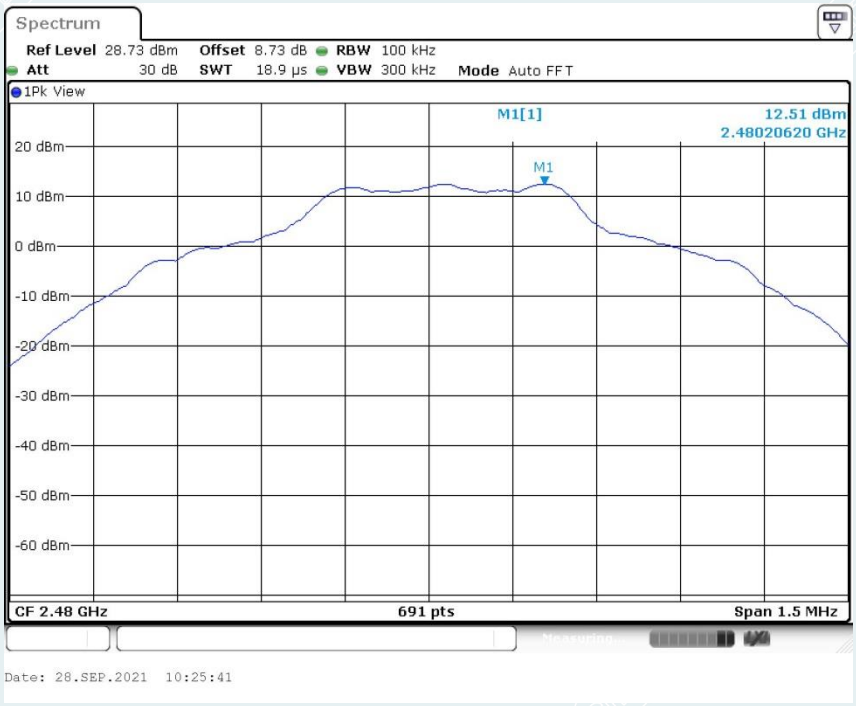
CH Mid

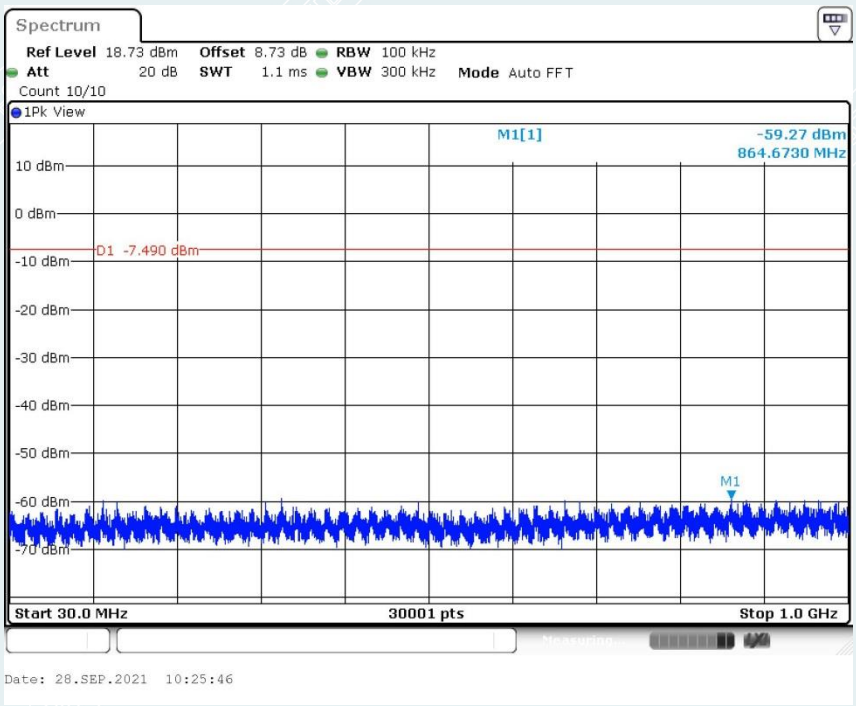

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 11.67 dBm
2.44103040 GHz
CF 2.441 GHz 691 pts Span 1.5 MHz
Date: 28.SEP.2021 10:22:41

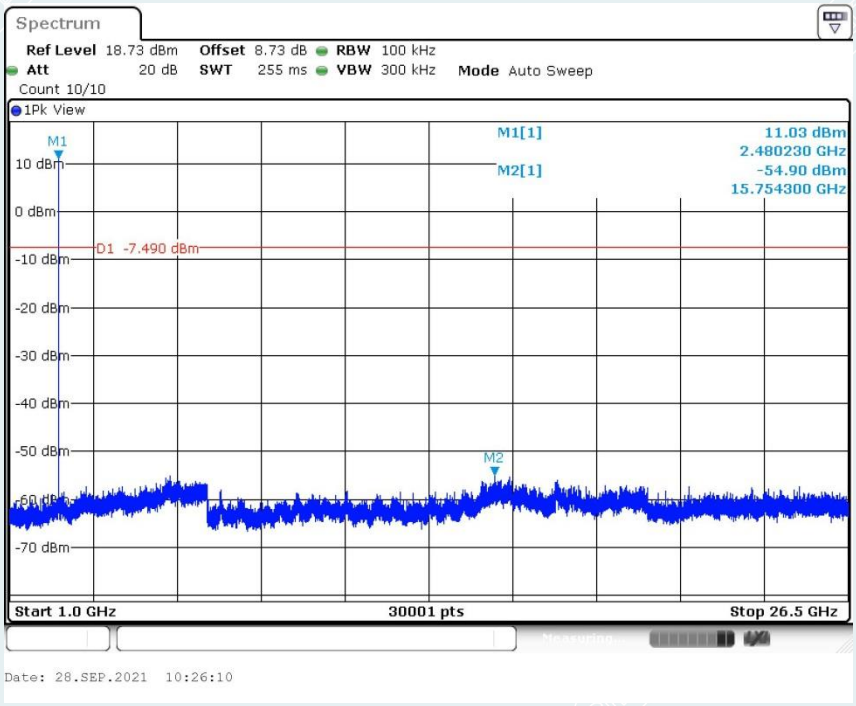

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -58.89 dBm
897.3940 MHz
D1 -8.330 dBm
Start 30.0 MHz 30001 pts Stop 1.0 GHz
Date: 28.SEP.2021 10:22:46


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 10.55 dBm
2.441130 GHz
M2[1] -44.78 dBm
4.881950 GHz
D1 -8.330 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 28.SEP.2021 10:23:10

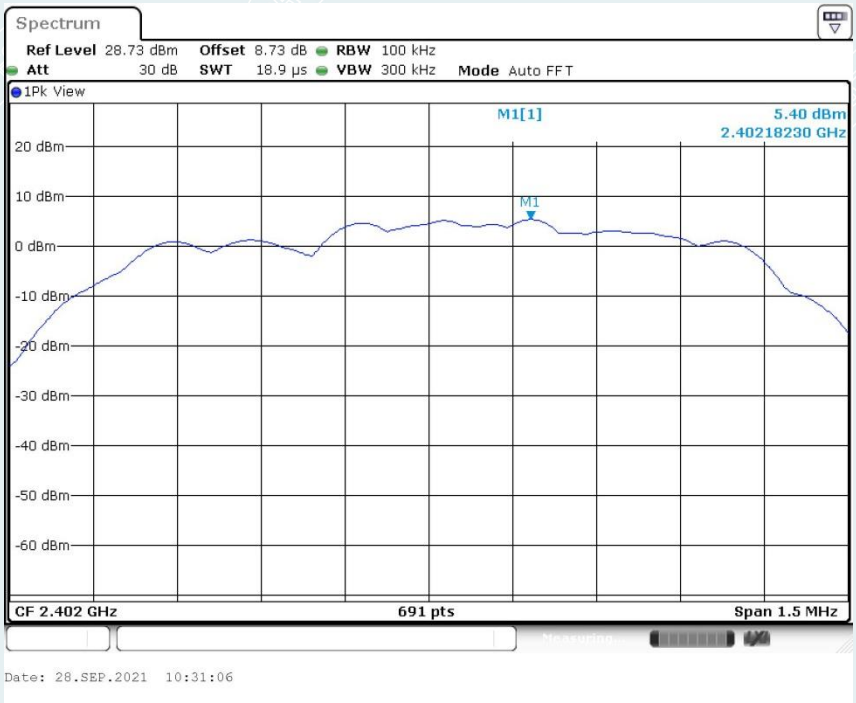
CH High

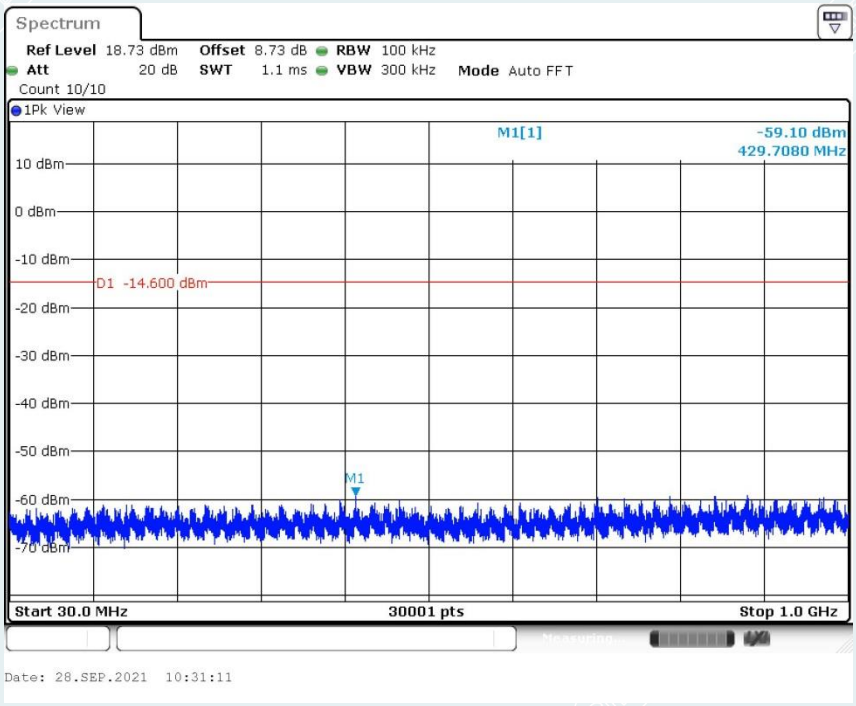

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 12.51 dBm
2.48020620 GHz
M1
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 2.48 GHz
691 pts
Span 1.5 MHz
Date: 28.SEP.2021 10:25:41

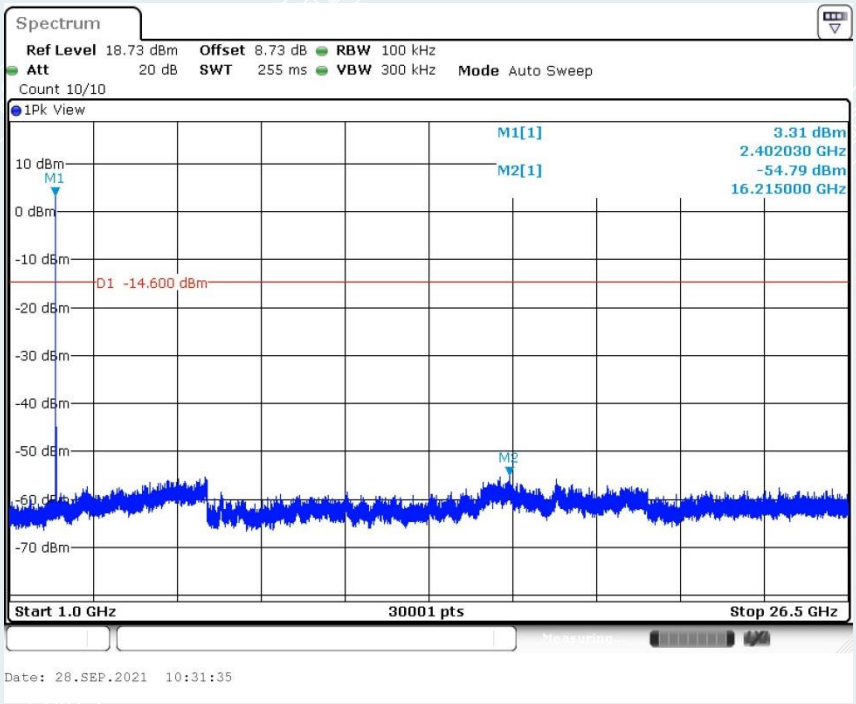

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -59.27 dBm
864.6730 MHz
10 dBm
0 dBm
D1 -7.490 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
Start 30.0 MHz
30001 pts
Stop 1.0 GHz
Date: 28.SEP.2021 10:25:46


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 11.03 dBm
2.480230 GHz
M2[1] -54.90 dBm
15.754300 GHz
D1 -7.490 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 28.SEP.2021 10:26:10

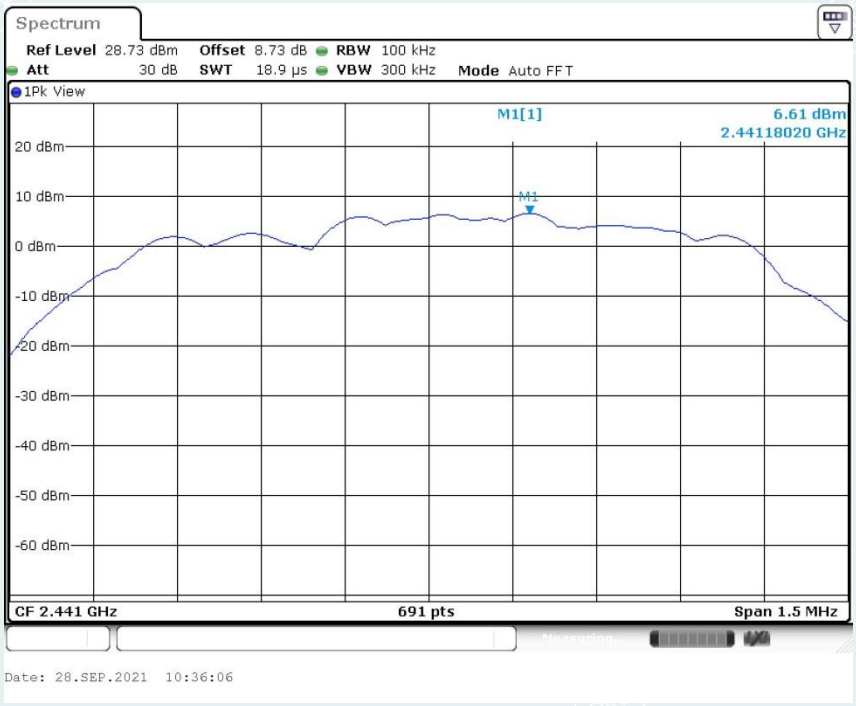
2DH5
CH Low

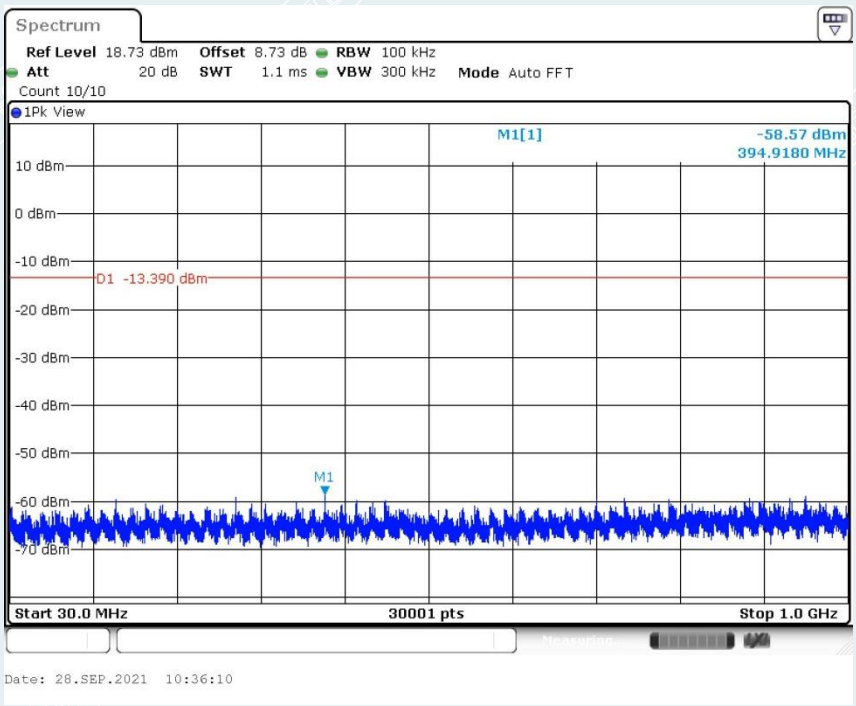

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 5.40 dBm
2.40218230 GHz
CF 2.402 GHz 691 pts Span 1.5 MHz
Date: 28.SEP.2021 10:31:06

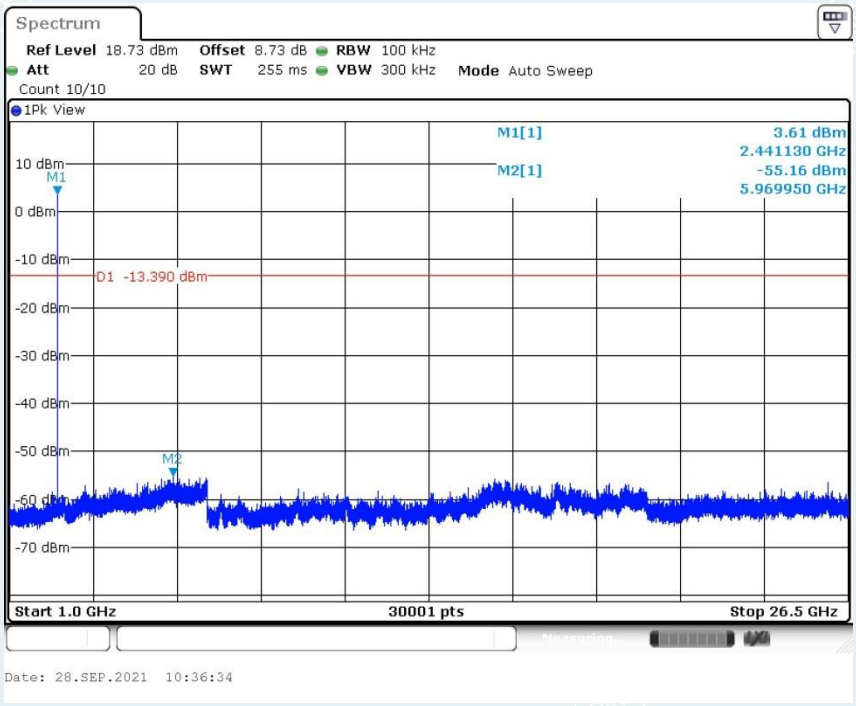

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -59.10 dBm
429.7080 MHz
10 dBm
0 dBm
-10 dBm
D1 -14.600 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
M1
-60 dBm
-70 dBm
Start 30.0 MHz
30001 pts
Stop 1.0 GHz
Date: 28.SEP.2021 10:31:11


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 3.31 dBm
2.402030 GHz
M2[1] -54.79 dBm
16.215000 GHz
10 dBm
M1
0 dBm
-10 dBm
D1 -14.600 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
M2
-60 dBm
-70 dBm
Start 1.0 GHz
30001 pts
Stop 26.5 GHz
Date: 28.SEP.2021 10:31:35

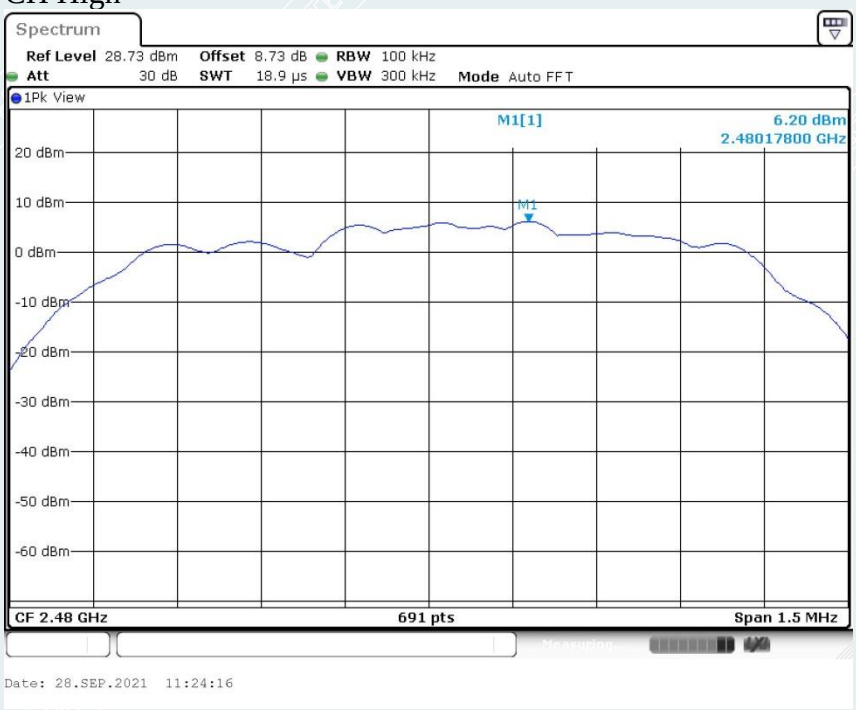
CH Mid

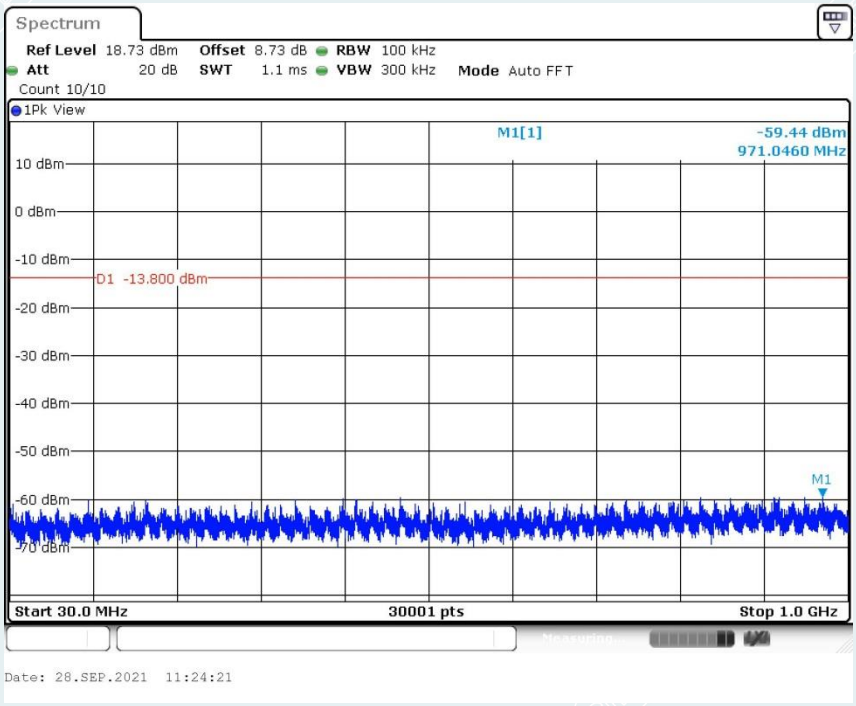

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 6.61 dBm
2.44118020 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
CF 2.441 GHz 691 pts Span 1.5 MHz
Date: 28.SEP.2021 10:36:06

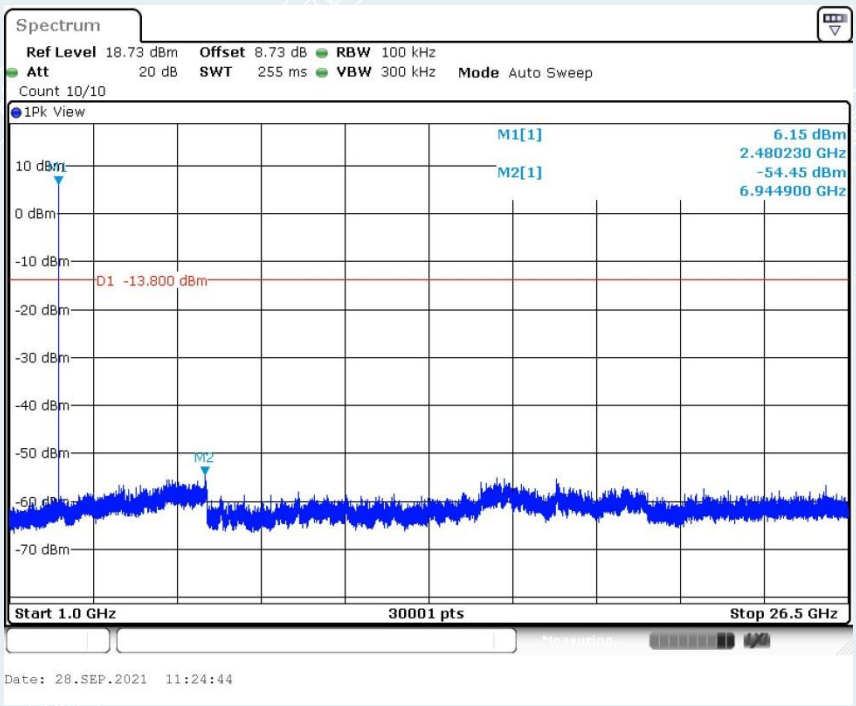

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -58.57 dBm
394.9180 MHz
10 dBm
0 dBm
-10 dBm
D1 -13.390 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
M1
-60 dBm
-70 dBm
Start 30.0 MHz 30001 pts Stop 1.0 GHz
Date: 28.SEP.2021 10:36:10


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 3.61 dBm
2.441130 GHz
M2[1] -55.16 dBm
5.969950 GHz
D1 -13.390 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 28.SEP.2021 10:36:34

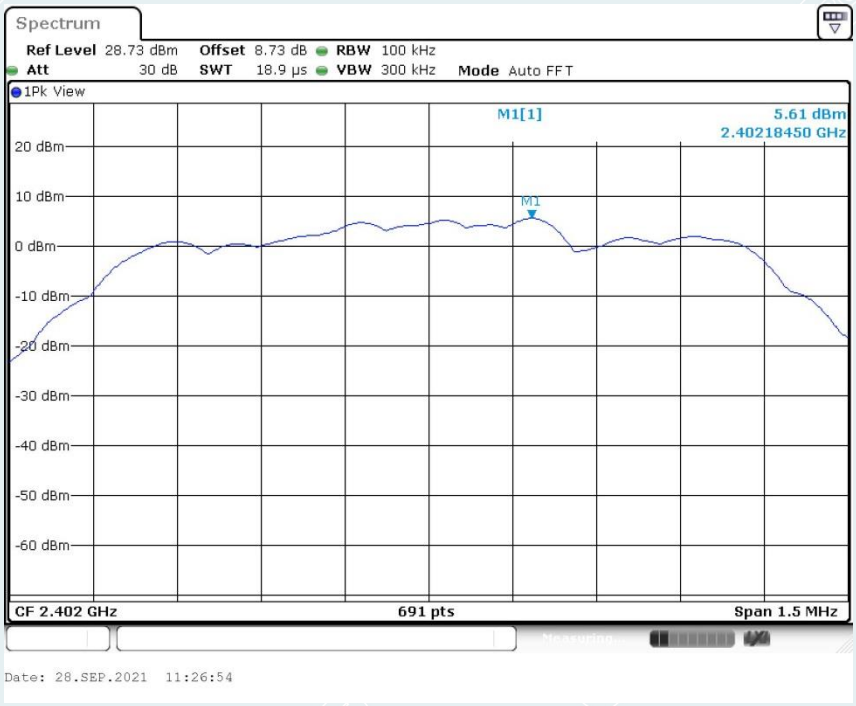
CH High

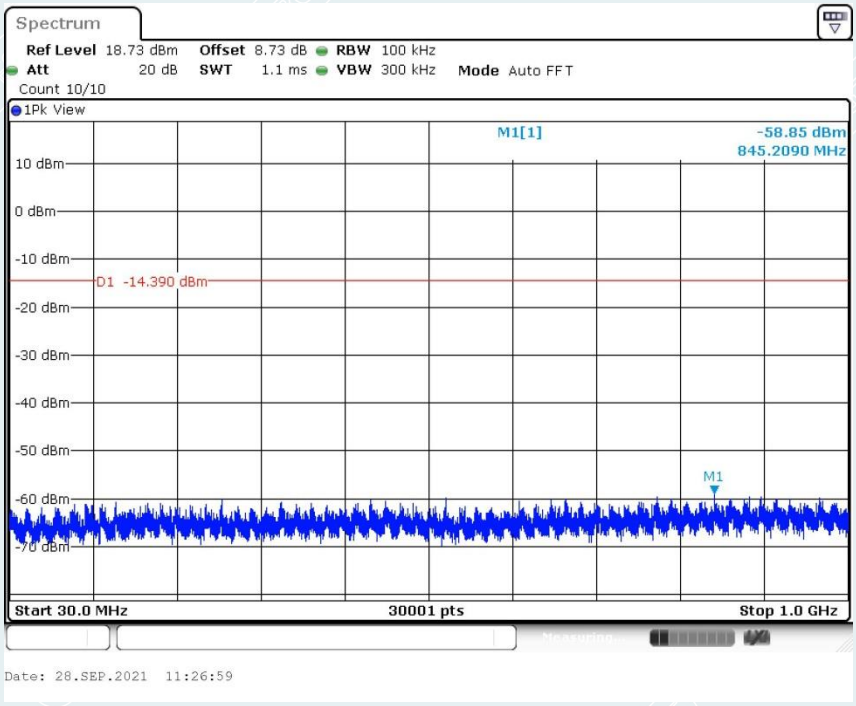

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 6.20 dBm
2.48017800 GHz
CF 2.48 GHz 691 pts Span 1.5 MHz
Date: 28.SEP.2021 11:24:16

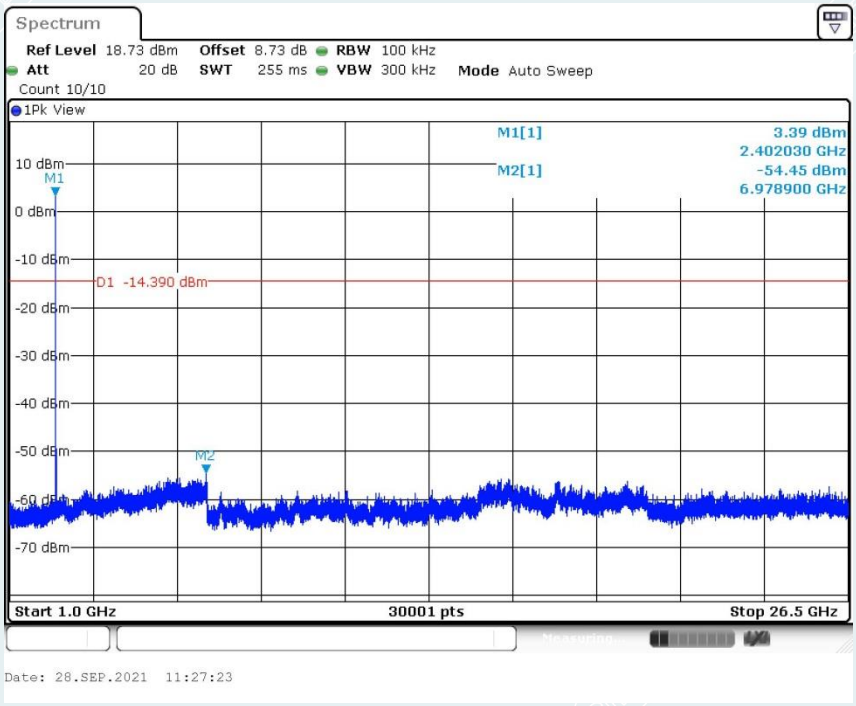

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -59.44 dBm
971.0460 MHz
10 dBm
0 dBm
-10 dBm
D1 -13.800 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
Start 30.0 MHz
30001 pts
Stop 1.0 GHz
Date: 28.SEP.2021 11:24:21


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 6.15 dBm
2.480230 GHz
M2[1] -54.45 dBm
6.944900 GHz
10 dBm
0 dBm
-10 dBm
D1 -13.800 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M2
Start 1.0 GHz
30001 pts
Stop 26.5 GHz
Date: 28.SEP.2021 11:24:44

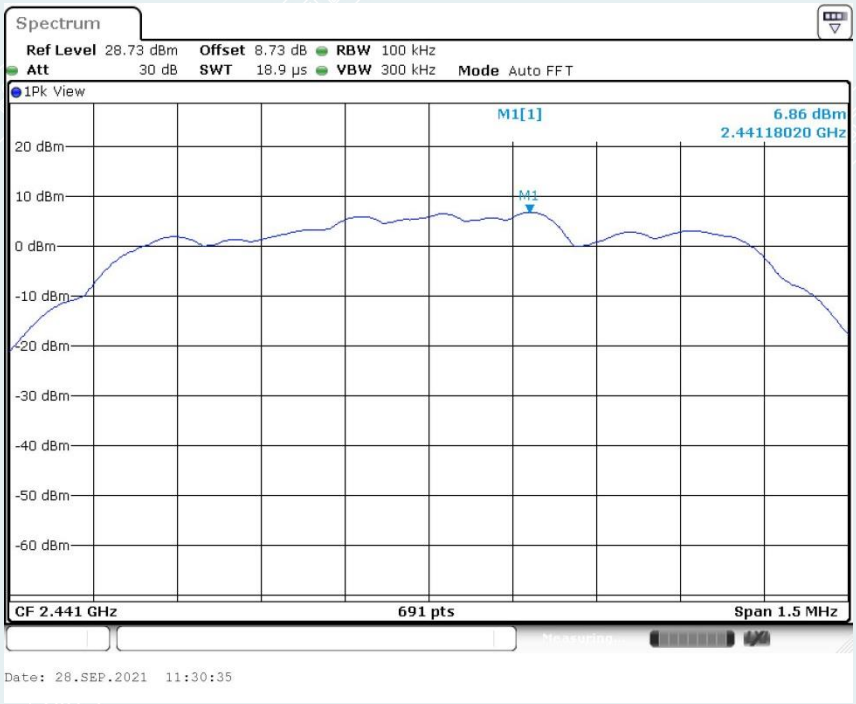
3DH5
CH Low

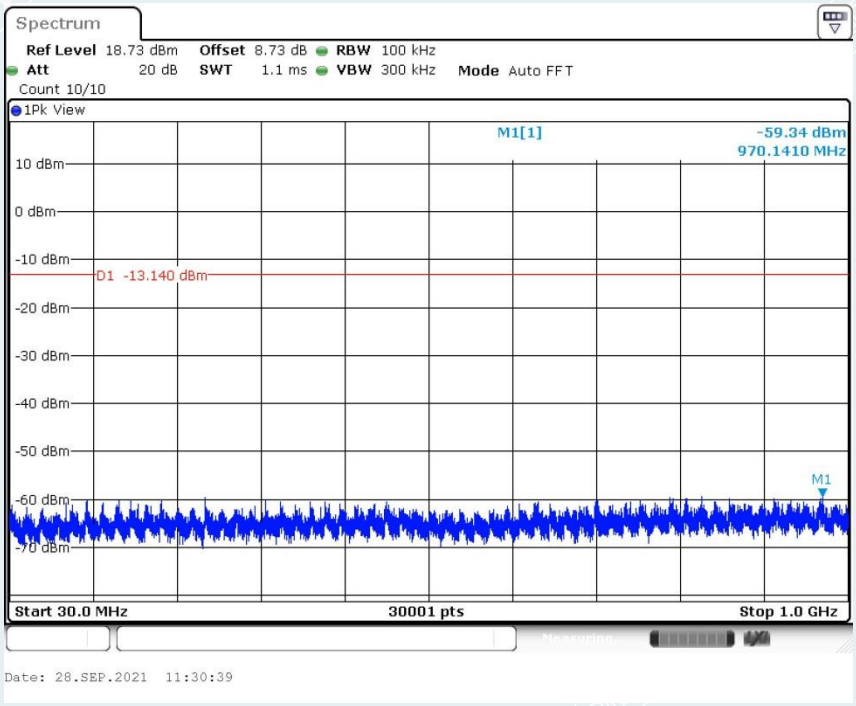

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 5.61 dBm
2.40218450 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
CF 2.402 GHz 691 pts Span 1.5 MHz
Date: 28.SEP.2021 11:26:54

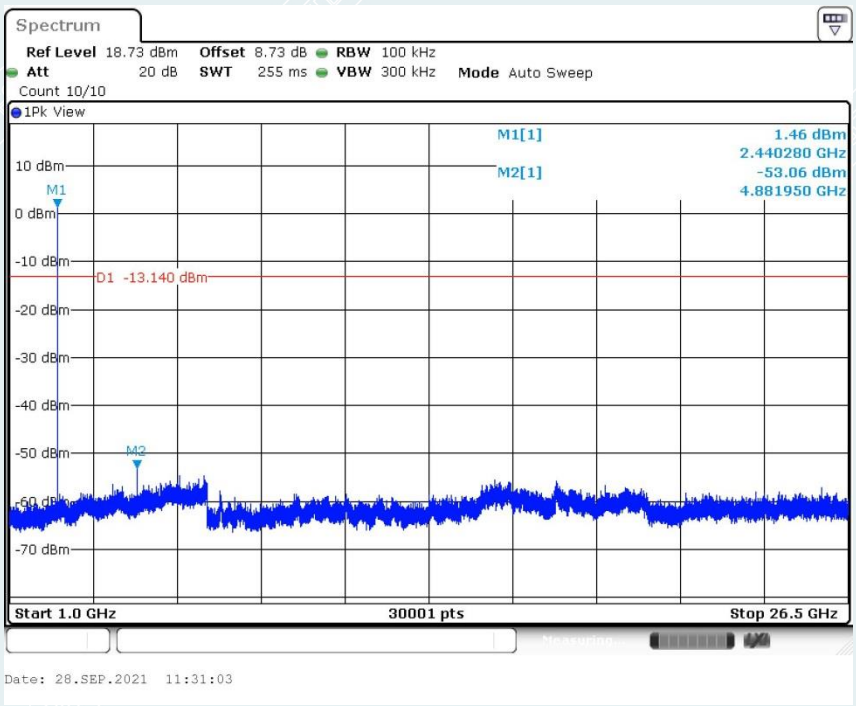

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -58.85 dBm
845.2090 MHz
10 dBm
0 dBm
-10 dBm
D1 -14.390 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
Start 30.0 MHz 30001 pts Stop 1.0 GHz
Date: 28.SEP.2021 11:26:59


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 3.39 dBm
2.402030 GHz
M2[1] -54.45 dBm
6.978900 GHz
D1 -14.390 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 28.SEP.2021 11:27:23

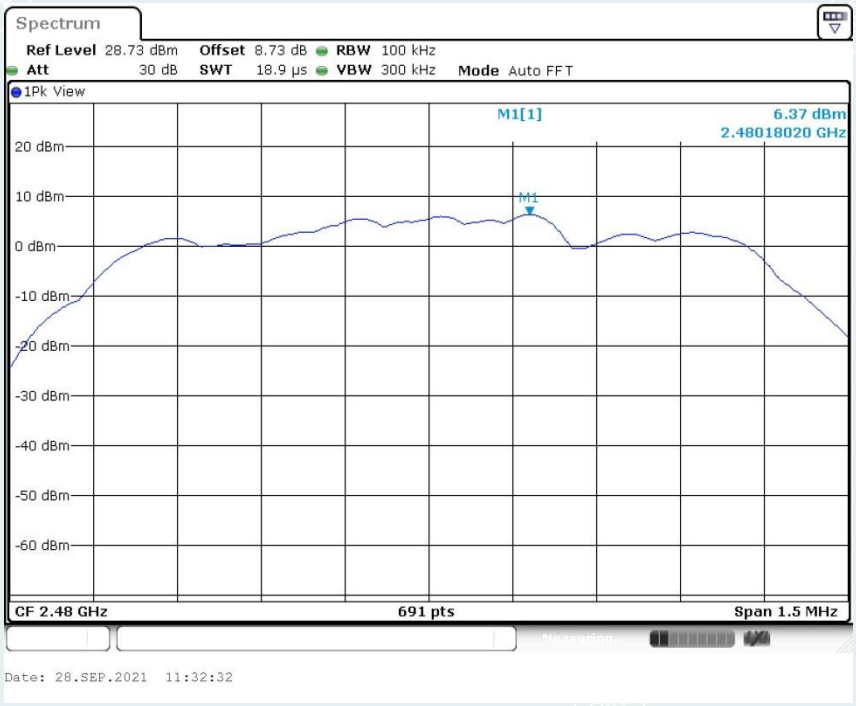
CH Mid

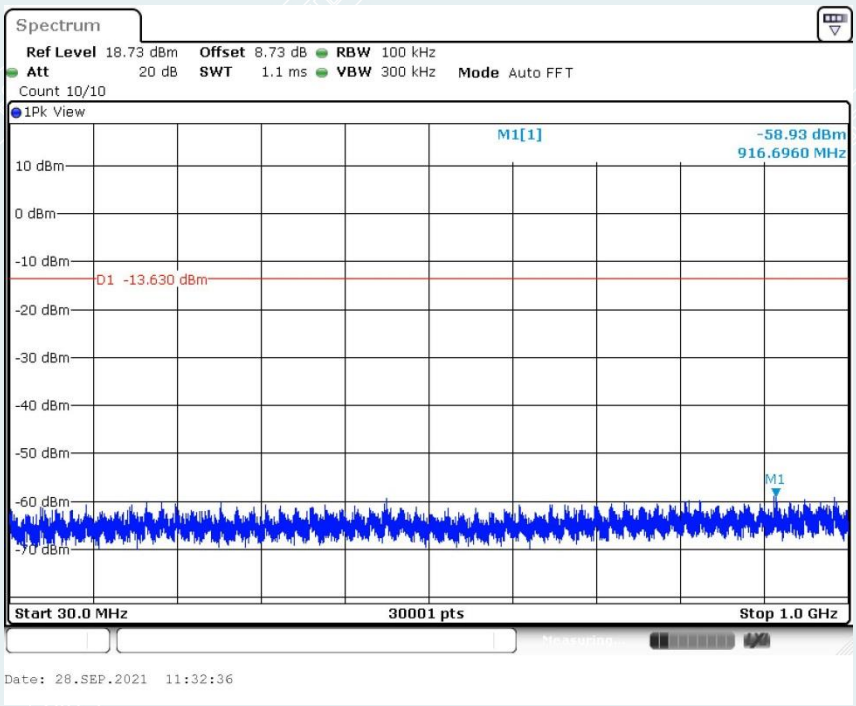

Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 6.86 dBm
2.44118020 GHz
CF 2.441 GHz 691 pts Span 1.5 MHz
Date: 28.SEP.2021 11:30:35

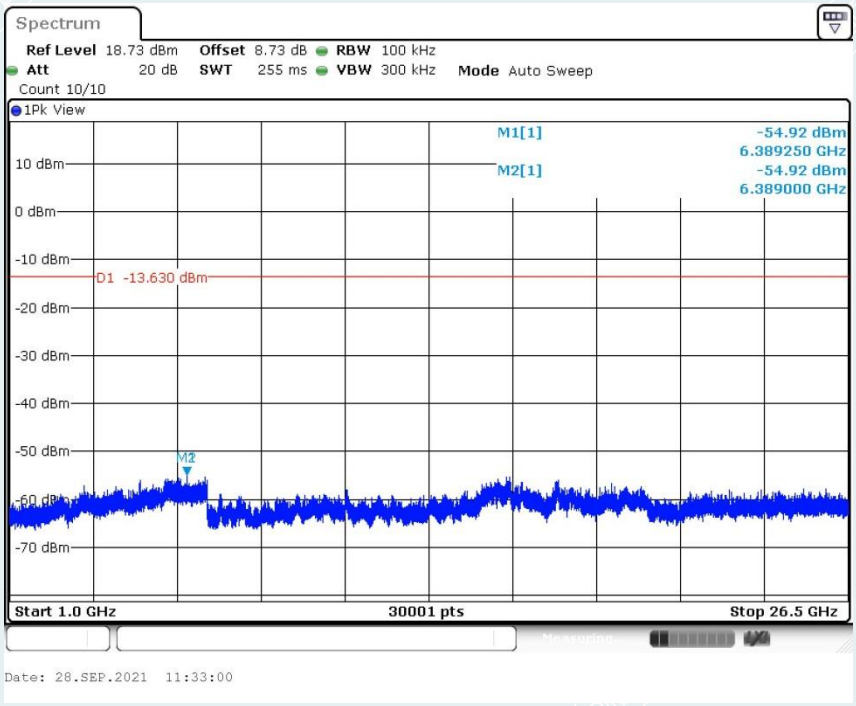

Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -59.34 dBm
970.1410 MHz
10 dBm
0 dBm
-10 dBm
D1 -13.140 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
Start 30.0 MHz
30001 pts
Stop 1.0 GHz
Date: 28.SEP.2021 11:30:39


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] 1.46 dBm
2.440280 GHz
M2[1] -53.06 dBm
4.881950 GHz
10 dBm
M1
0 dBm
-10 dBm
D1 -13.140 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
M2
-60 dBm
-70 dBm
Start 1.0 GHz
30001 pts
Stop 26.5 GHz
Date: 28.SEP.2021 11:31:03

CH High


Spectrum
Ref Level 28.73 dBm Offset 8.73 dB RBW 100 kHz
Att 30 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT
1Pk View
M1[1] 6.37 dBm
2.48018020 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
M1
CF 2.48 GHz
691 pts
Span 1.5 MHz
Date: 28.SEP.2021 11:32:32


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto FFT
Count 10/10
1Pk View
M1[1] -58.93 dBm
916.6960 MHz
10 dBm
0 dBm
-10 dBm
D1 -13.630 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
Start 30.0 MHz
30001 pts
Stop 1.0 GHz
Date: 28.SEP.2021 11:32:36


Spectrum
Ref Level 18.73 dBm Offset 8.73 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk View
M1[1] -54.92 dBm
6.389250 GHz
M2[1] -54.92 dBm
6.389000 GHz
10 dBm
0 dBm
-10 dBm
D1 -13.630 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
M2
-60 dBm
-70 dBm
Start 1.0 GHz
30001 pts
Stop 26.5 GHz
Date: 28.SEP.2021 11:33:00

6.9 RADIATED SPURIOUS EMISSIONS

6.9.1 LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	53.8~88.5
0.490-1.705	24000/F(kHz)	30	43~53.8
1.705-30.0	30	30	49.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

NOTE:
(1) The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
(2) The lower limit shall apply at the transition frequencies.

6.9.2 TEST PROCEDURES

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.