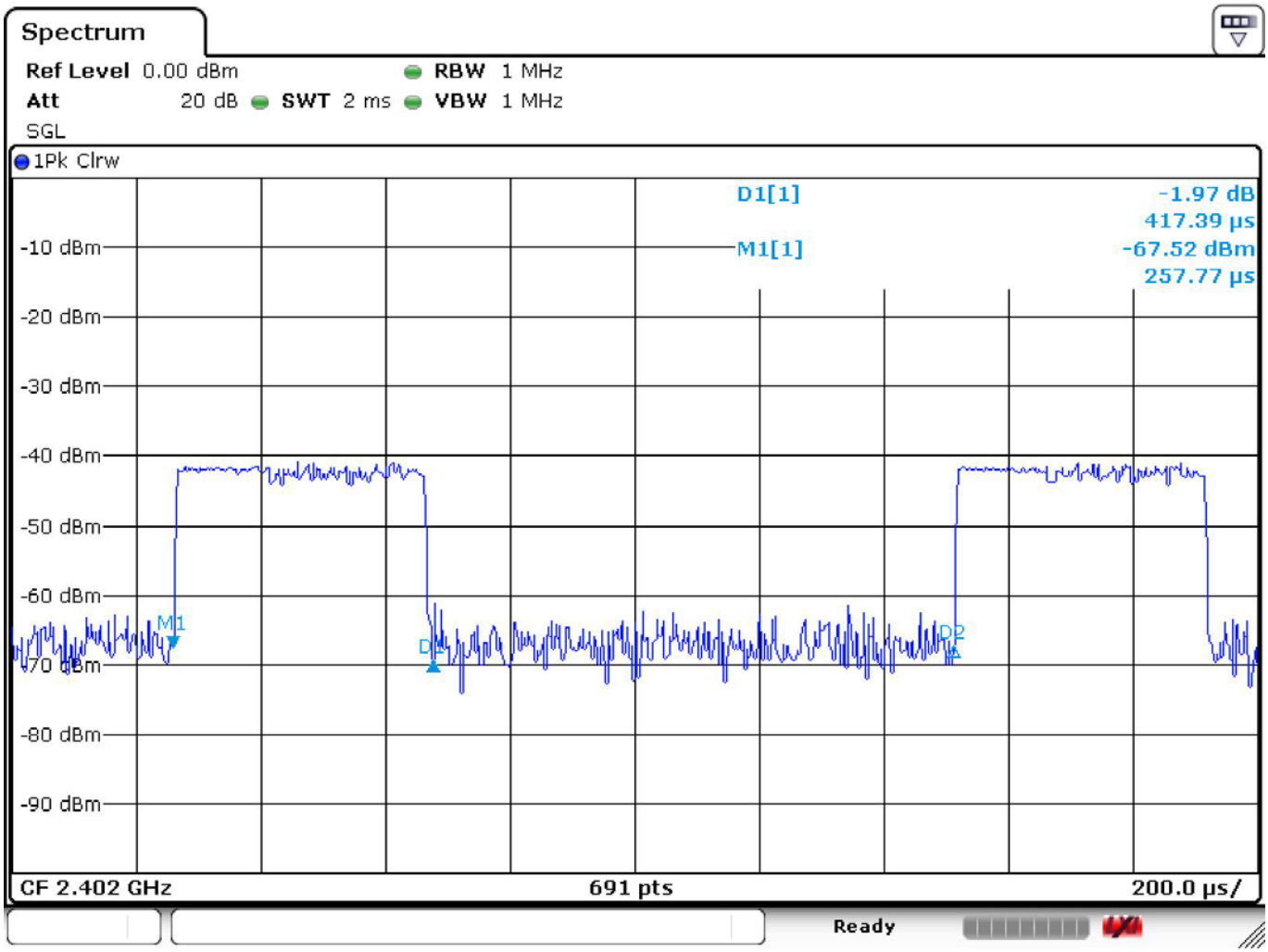
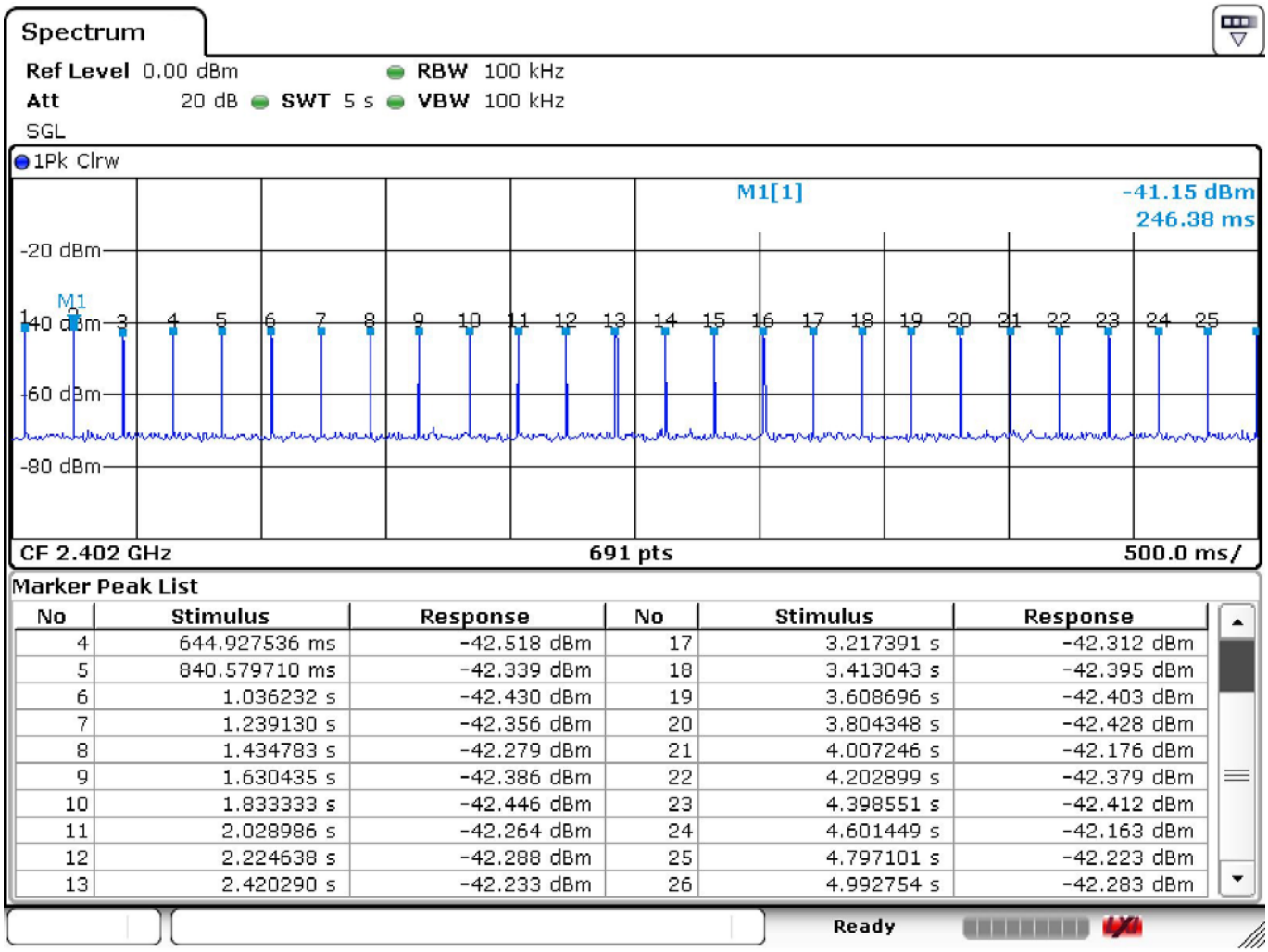

Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 2 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1]
-1.97 dB
417.39 µs
M1[1]
-67.52 dBm
257.77 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
M1
D1
D2
CF 2.402 GHz
691 pts
200.0 µs/
Ready

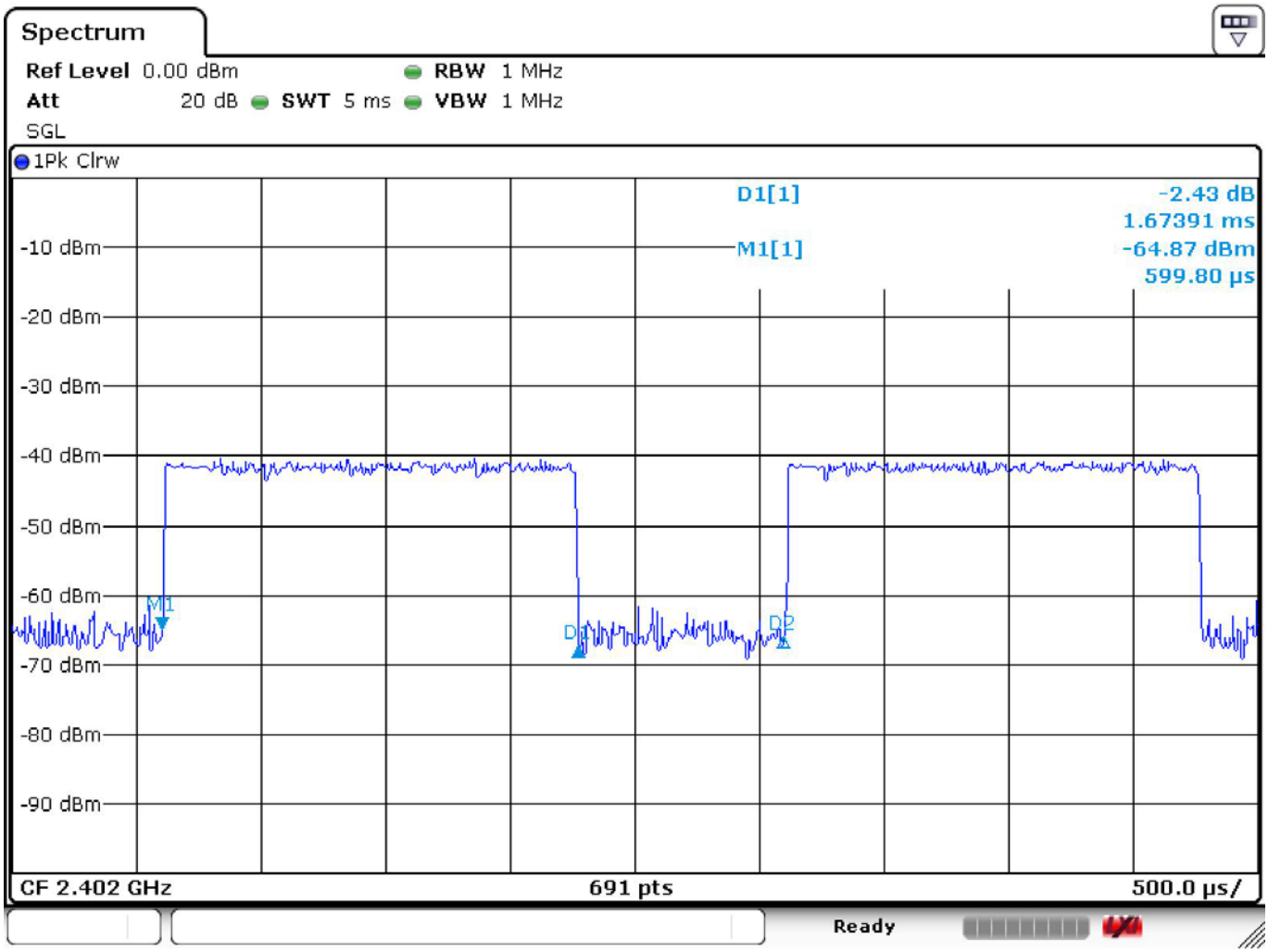
Test Mode : BT EDR (3 Mbps) DH3 Channel : 00

Number of Pulses Per 5 sec



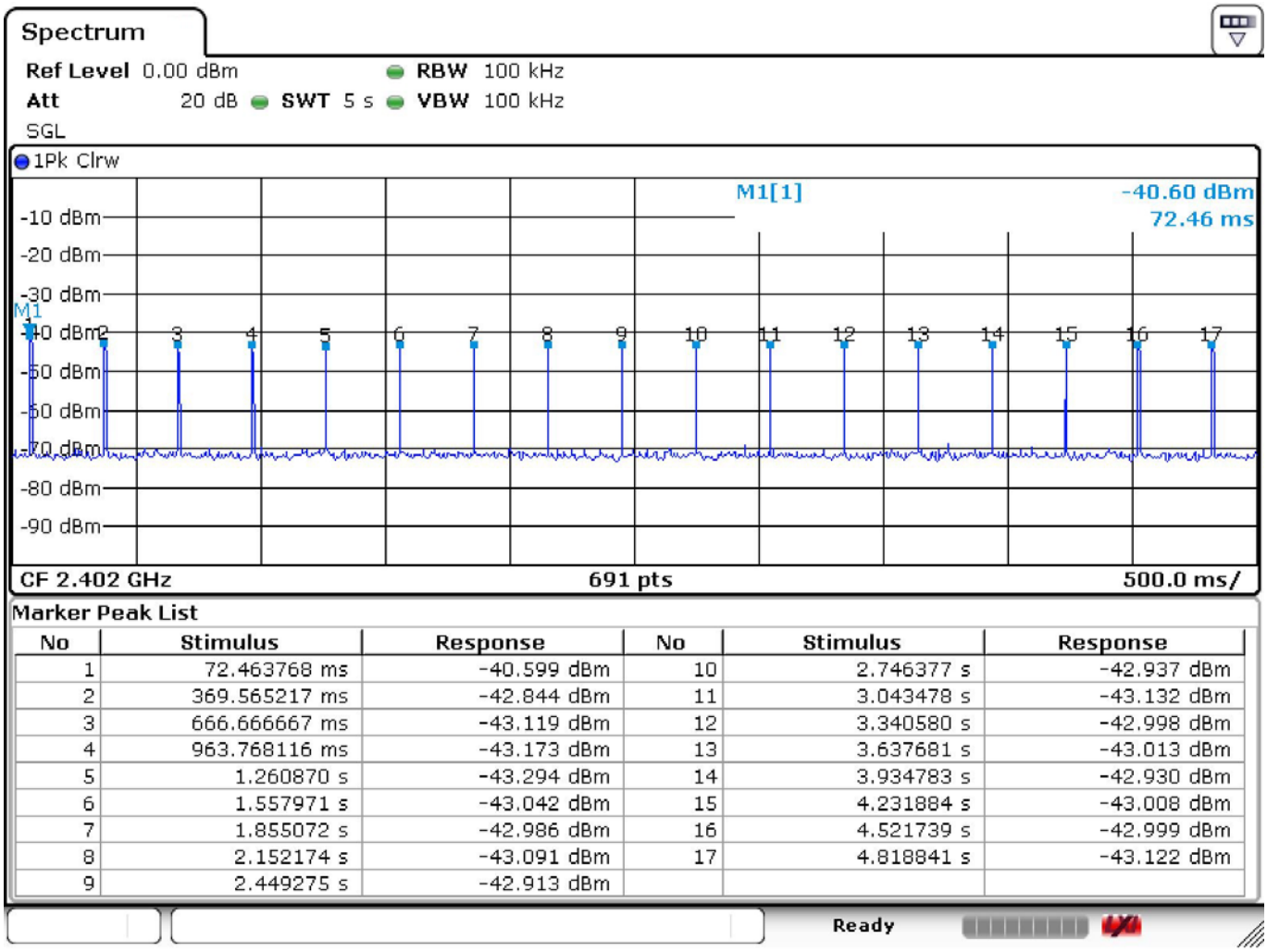
No	Stimulus	Response	No	Stimulus	Response
4	644.927536 ms	-42.518 dBm	17	3.217391 s	-42.312 dBm
5	840.579710 ms	-42.339 dBm	18	3.413043 s	-42.395 dBm
6	1.036232 s	-42.430 dBm	19	3.608696 s	-42.403 dBm
7	1.239130 s	-42.356 dBm	20	3.804348 s	-42.428 dBm
8	1.434783 s	-42.279 dBm	21	4.007246 s	-42.176 dBm
9	1.630435 s	-42.386 dBm	22	4.202899 s	-42.379 dBm
10	1.833333 s	-42.446 dBm	23	4.398551 s	-42.412 dBm
11	2.028986 s	-42.264 dBm	24	4.601449 s	-42.163 dBm
12	2.224638 s	-42.288 dBm	25	4.797101 s	-42.223 dBm
13	2.420290 s	-42.233 dBm	26	4.992754 s	-42.283 dBm

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 5 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1]
-2.43 dB
1.67391 ms
M1[1]
-64.87 dBm
599.80 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
M1
D1
DP
CF 2.402 GHz
691 pts
500.0 µs/
Ready

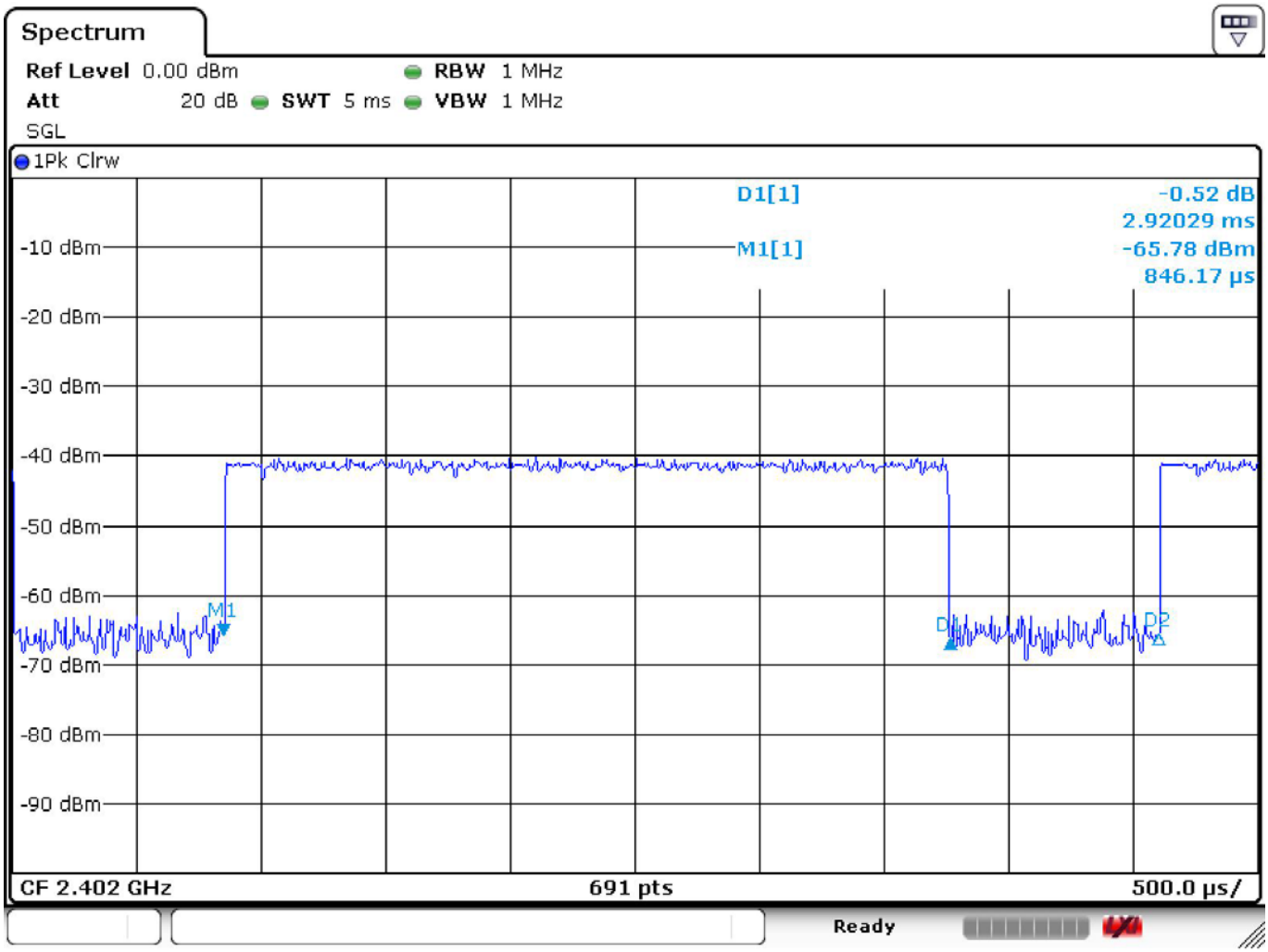
Test Mode : BT EDR (3 Mbps) DH5 Channel : 00

Number of Pulses Per 5 sec



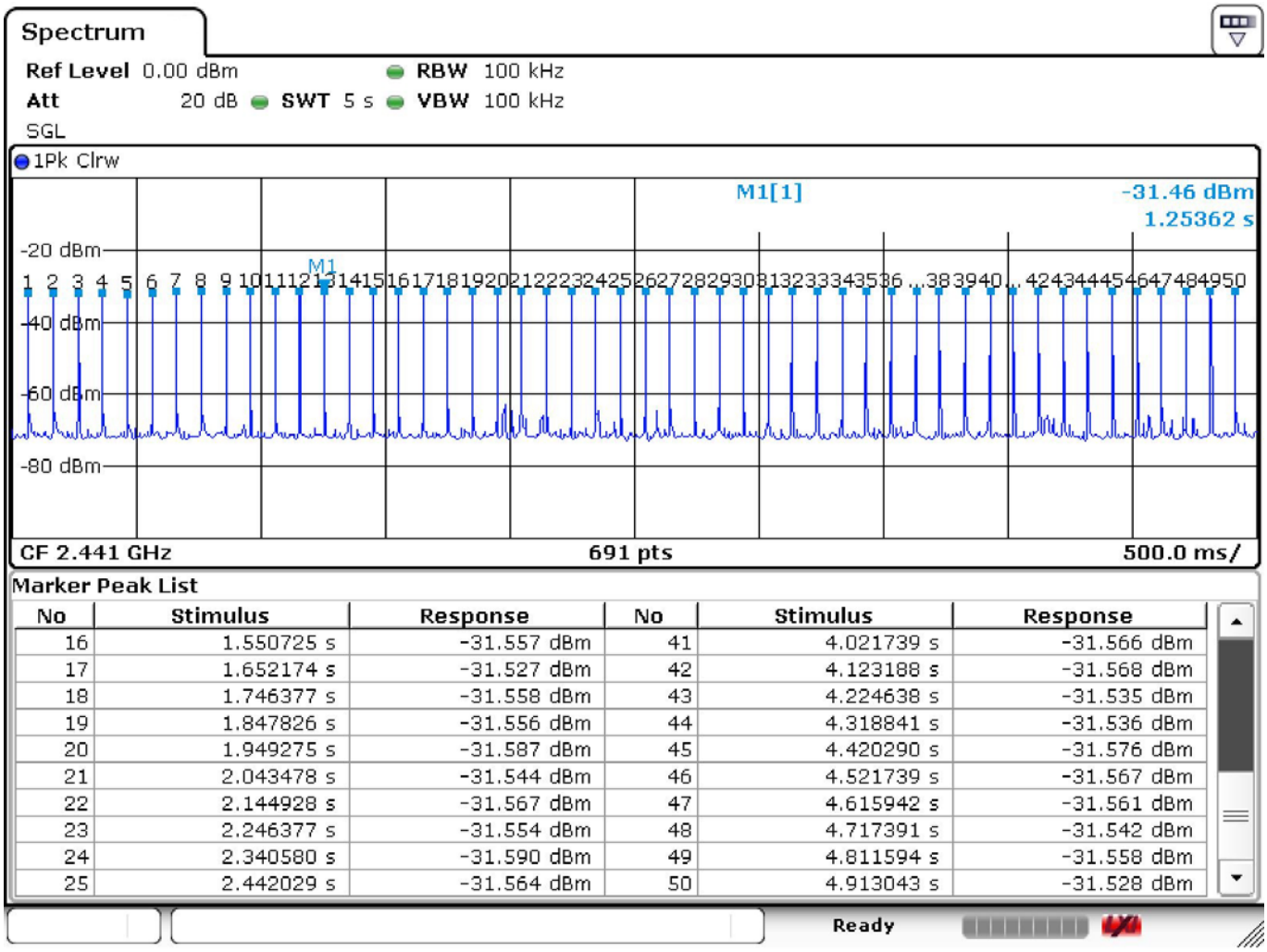
No	Stimulus	Response	No	Stimulus	Response
1	72.463768 ms	-40.599 dBm	10	2.746377 s	-42.937 dBm
2	369.565217 ms	-42.844 dBm	11	3.043478 s	-43.132 dBm
3	666.666667 ms	-43.119 dBm	12	3.340580 s	-42.998 dBm
4	963.768116 ms	-43.173 dBm	13	3.637681 s	-43.013 dBm
5	1.260870 s	-43.294 dBm	14	3.934783 s	-42.930 dBm
6	1.557971 s	-43.042 dBm	15	4.231884 s	-43.008 dBm
7	1.855072 s	-42.986 dBm	16	4.521739 s	-42.999 dBm
8	2.152174 s	-43.091 dBm	17	4.818841 s	-43.122 dBm
9	2.449275 s	-42.913 dBm			

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 5 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1]
-0.52 dB
2.92029 ms
M1[1]
-65.78 dBm
846.17 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
M1
D1
D2
CF 2.402 GHz
691 pts
500.0 µs/
Ready

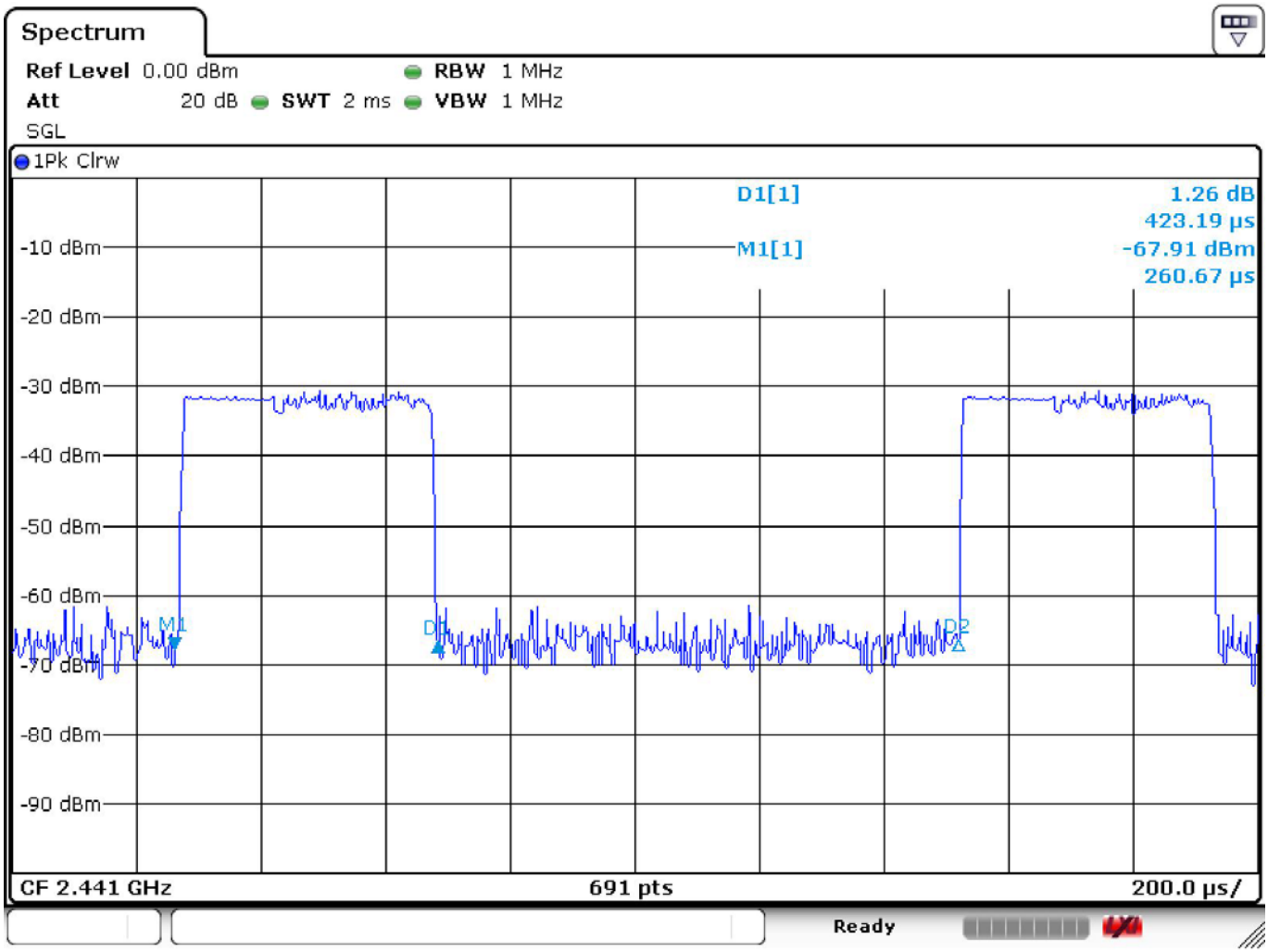
Test Mode : BT EDR (3 Mbps) DH1 Channel : 39

Number of Pulses Per 5 sec



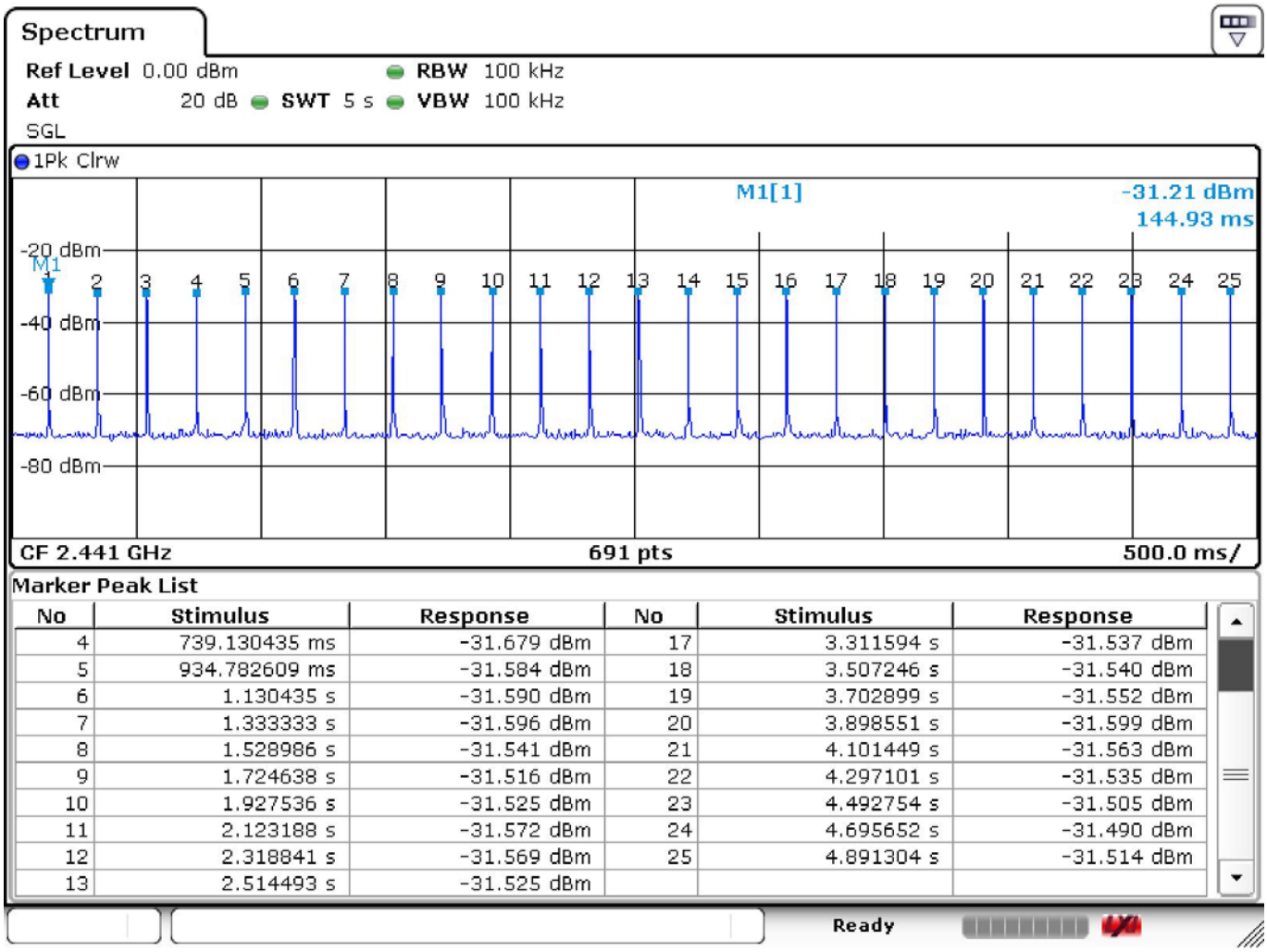
No	Stimulus	Response	No	Stimulus	Response
16	1.550725 s	-31.557 dBm	41	4.021739 s	-31.566 dBm
17	1.652174 s	-31.527 dBm	42	4.123188 s	-31.568 dBm
18	1.746377 s	-31.558 dBm	43	4.224638 s	-31.535 dBm
19	1.847826 s	-31.556 dBm	44	4.318841 s	-31.536 dBm
20	1.949275 s	-31.587 dBm	45	4.420290 s	-31.576 dBm
21	2.043478 s	-31.544 dBm	46	4.521739 s	-31.567 dBm
22	2.144928 s	-31.567 dBm	47	4.615942 s	-31.561 dBm
23	2.246377 s	-31.554 dBm	48	4.717391 s	-31.542 dBm
24	2.340580 s	-31.590 dBm	49	4.811594 s	-31.558 dBm
25	2.442029 s	-31.564 dBm	50	4.913043 s	-31.528 dBm

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 2 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1] 1.26 dB
423.19 µs
M1[1] -67.91 dBm
260.67 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
CF 2.441 GHz
691 pts
200.0 µs/
Ready

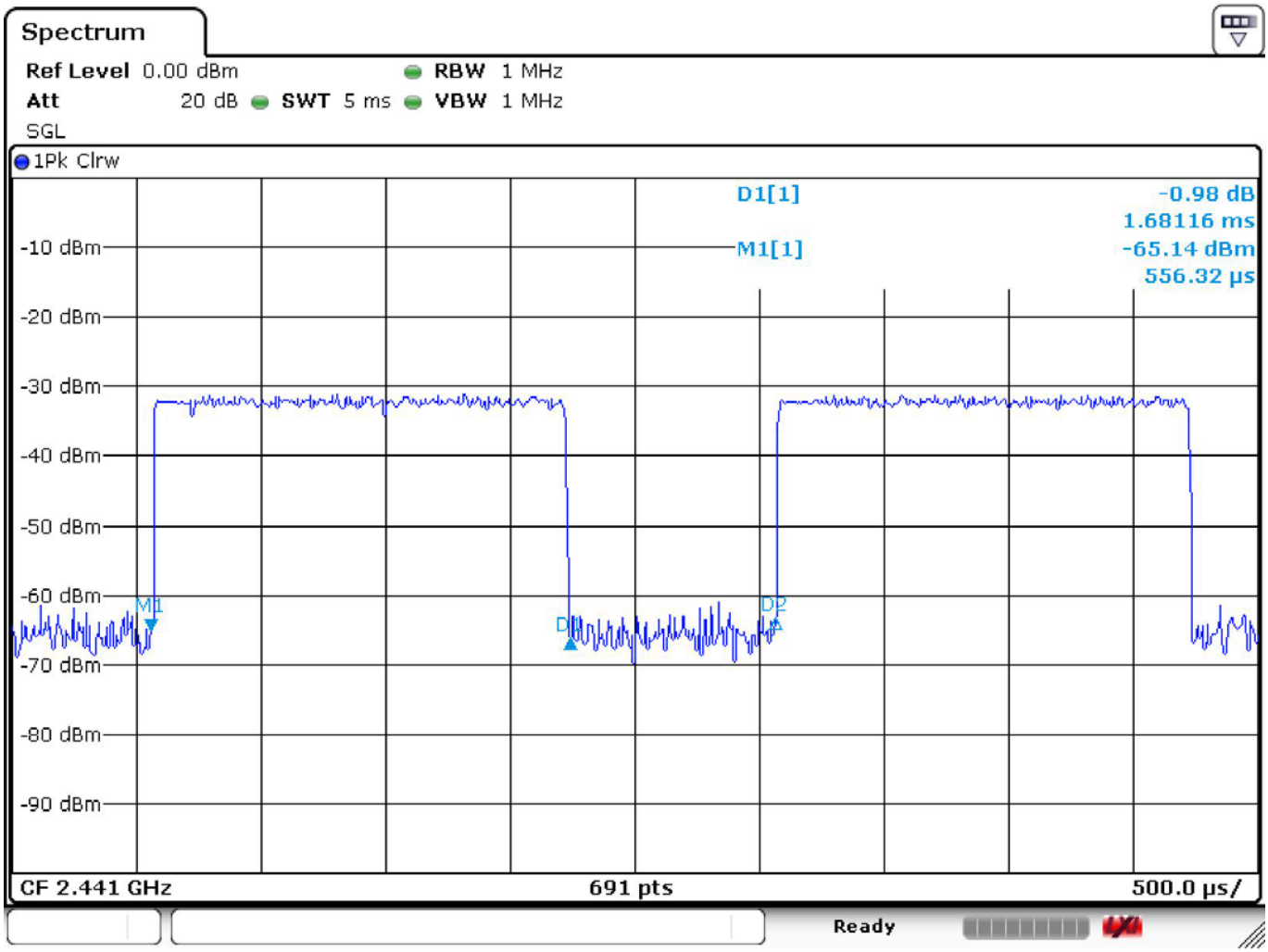
Test Mode : BT EDR (3 Mbps) DH3 Channel : 39

Number of Pulses Per 5 sec



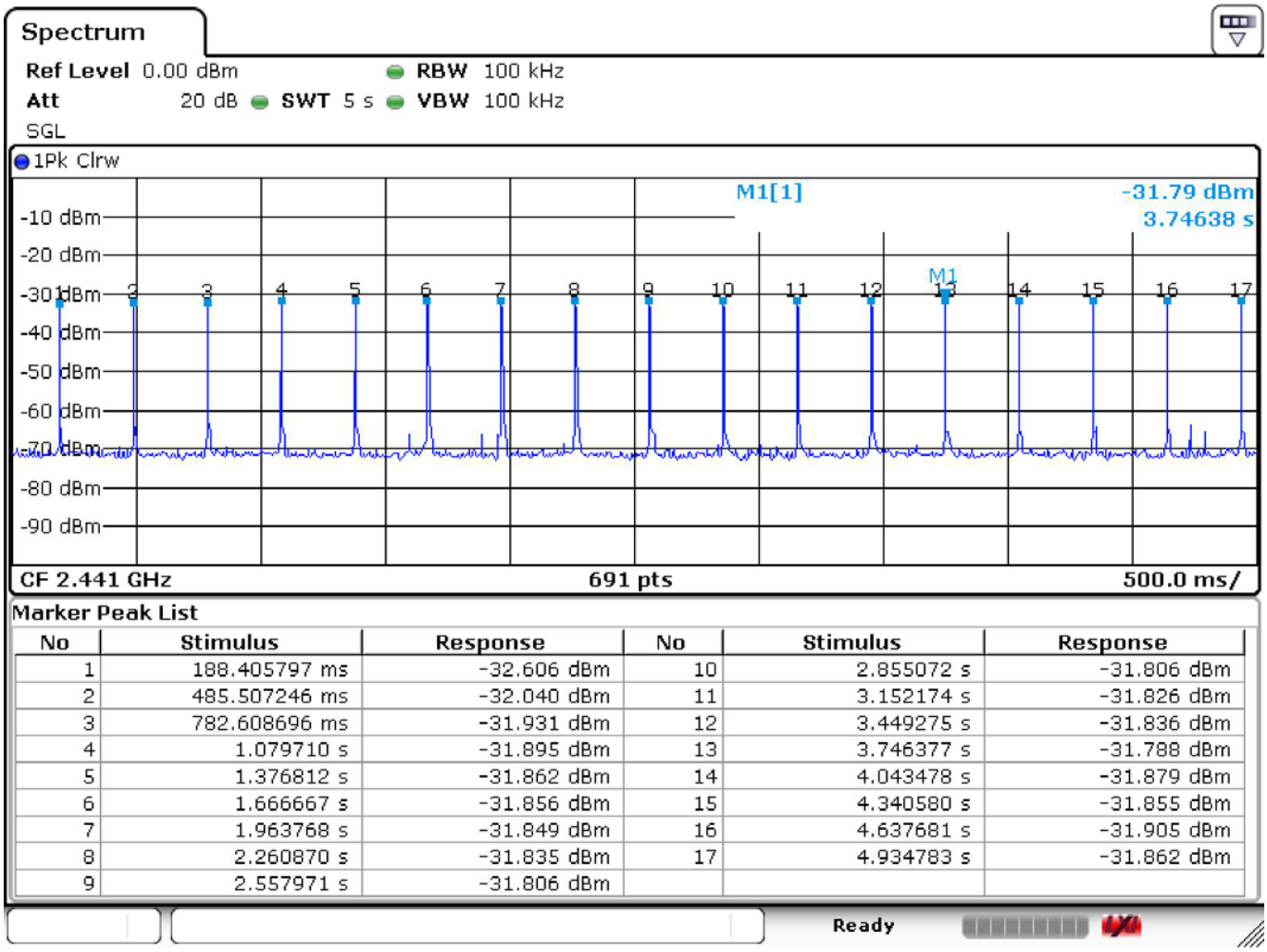
No	Stimulus	Response	No	Stimulus	Response
4	739.130435 ms	-31.679 dBm	17	3.311594 s	-31.537 dBm
5	934.782609 ms	-31.584 dBm	18	3.507246 s	-31.540 dBm
6	1.130435 s	-31.590 dBm	19	3.702899 s	-31.552 dBm
7	1.333333 s	-31.596 dBm	20	3.898551 s	-31.599 dBm
8	1.528986 s	-31.541 dBm	21	4.101449 s	-31.563 dBm
9	1.724638 s	-31.516 dBm	22	4.297101 s	-31.535 dBm
10	1.927536 s	-31.525 dBm	23	4.492754 s	-31.505 dBm
11	2.123188 s	-31.572 dBm	24	4.695652 s	-31.490 dBm
12	2.318841 s	-31.569 dBm	25	4.891304 s	-31.514 dBm
13	2.514493 s	-31.525 dBm			

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 5 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1]
-0.98 dB
1.68116 ms
M1[1]
-65.14 dBm
556.32 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
M1
D1
D2
CF 2.441 GHz
691 pts
500.0 µs/
Ready

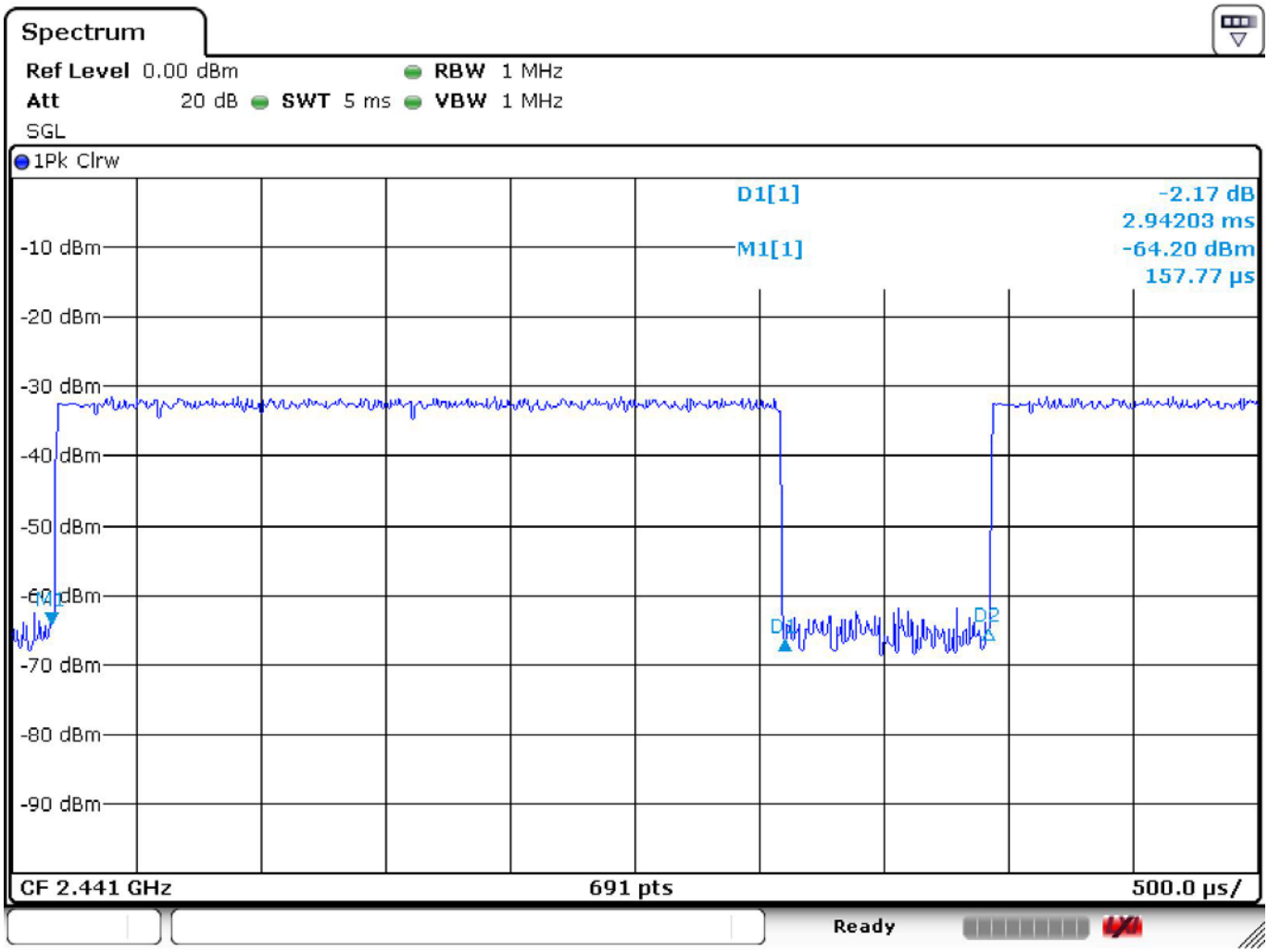
Test Mode : BT EDR (3 Mbps) DH5 Channel : 39

Number of Pulses Per 5 sec



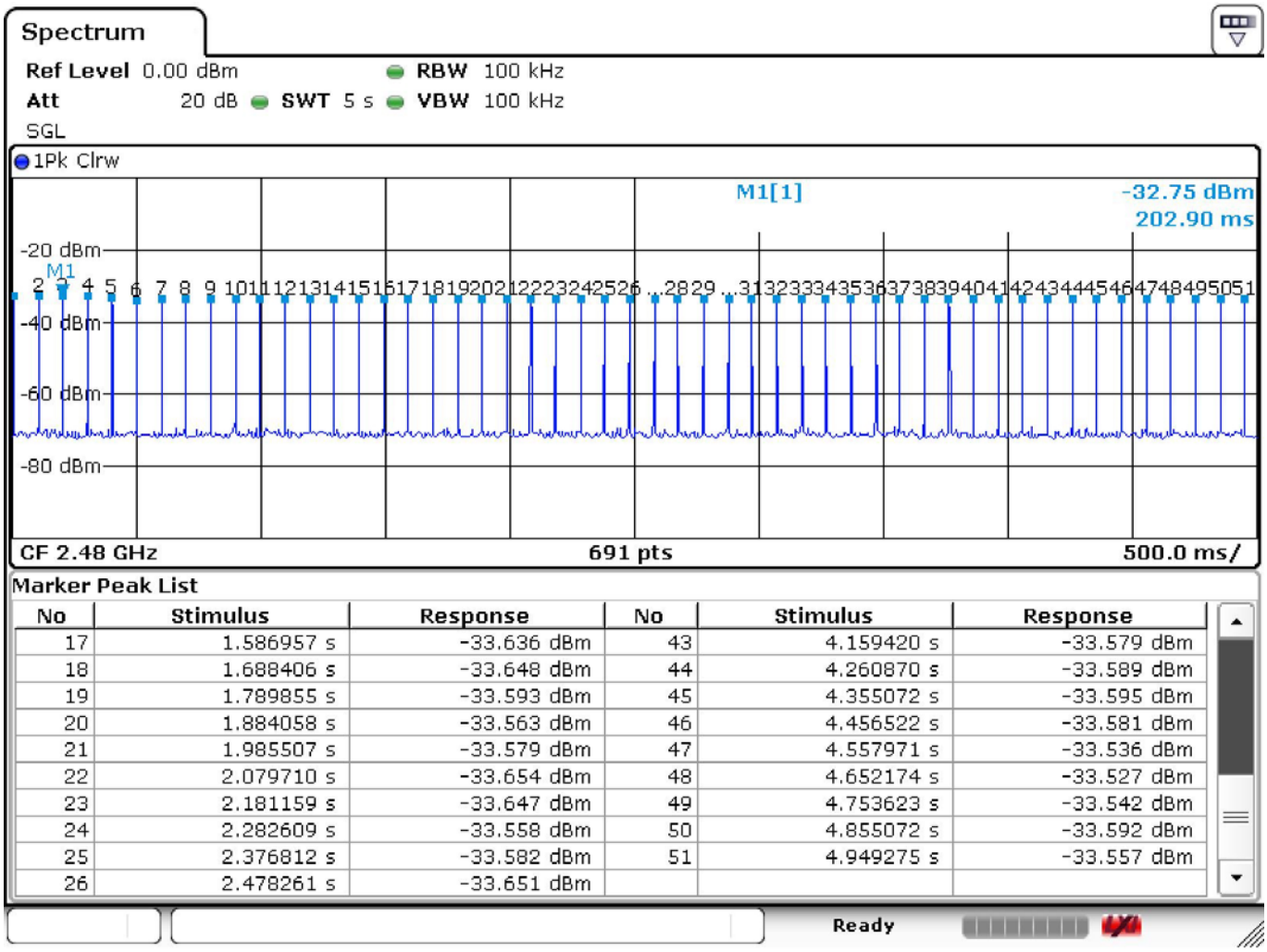
No	Stimulus	Response	No	Stimulus	Response
1	188.405797 ms	-32.606 dBm	10	2.855072 s	-31.806 dBm
2	485.507246 ms	-32.040 dBm	11	3.152174 s	-31.826 dBm
3	782.608696 ms	-31.931 dBm	12	3.449275 s	-31.836 dBm
4	1.079710 s	-31.895 dBm	13	3.746377 s	-31.788 dBm
5	1.376812 s	-31.862 dBm	14	4.043478 s	-31.879 dBm
6	1.666667 s	-31.856 dBm	15	4.340580 s	-31.855 dBm
7	1.963768 s	-31.849 dBm	16	4.637681 s	-31.905 dBm
8	2.260870 s	-31.835 dBm	17	4.934783 s	-31.862 dBm
9	2.557971 s	-31.806 dBm			

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 5 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1] -2.17 dB
2.94203 ms
M1[1] -64.20 dBm
157.77 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
CF 2.441 GHz
691 pts
500.0 µs/
Ready

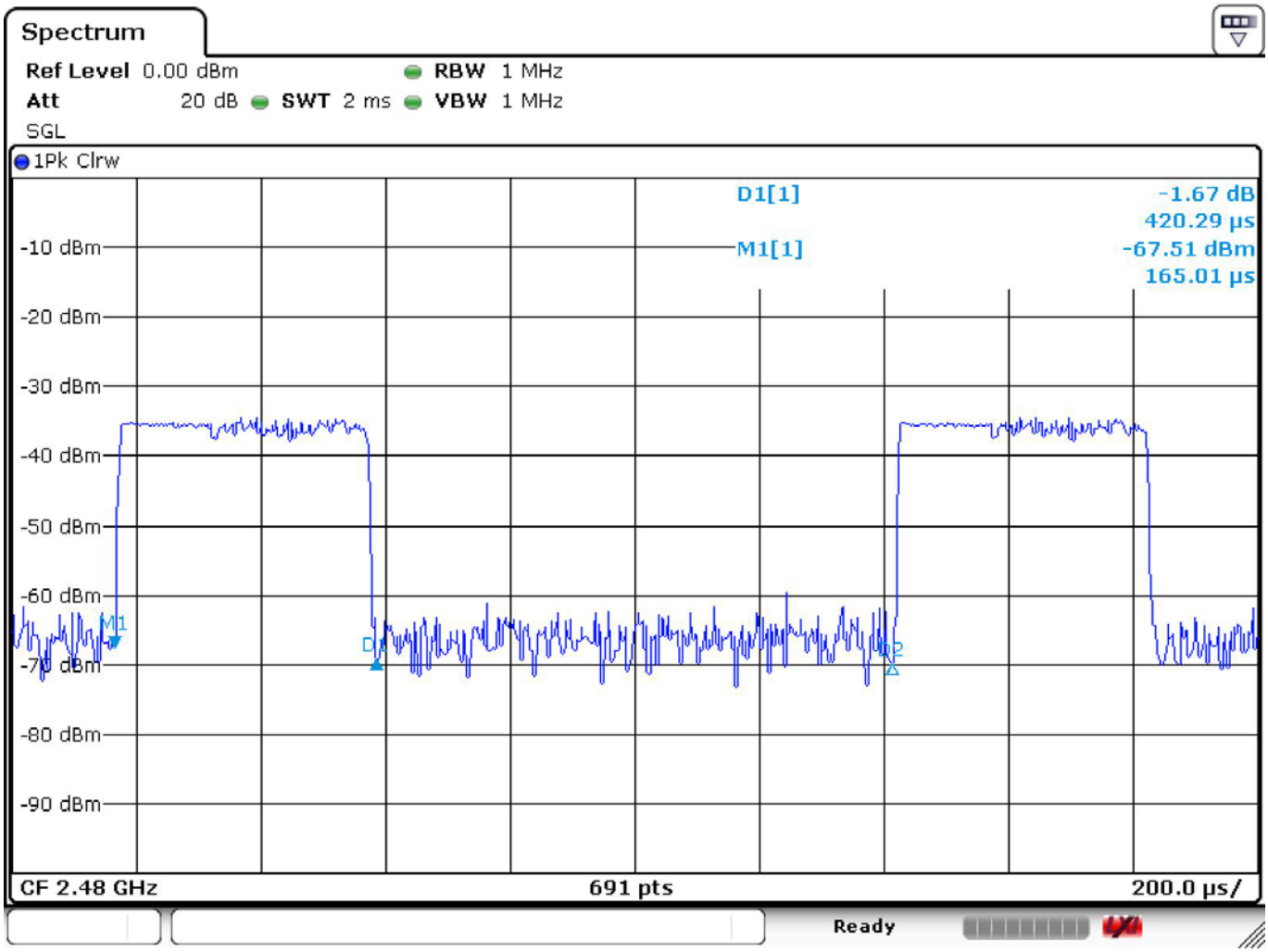
Test Mode : BT EDR (3 Mbps) DH1 Channel : 78

Number of Pulses Per 5 sec



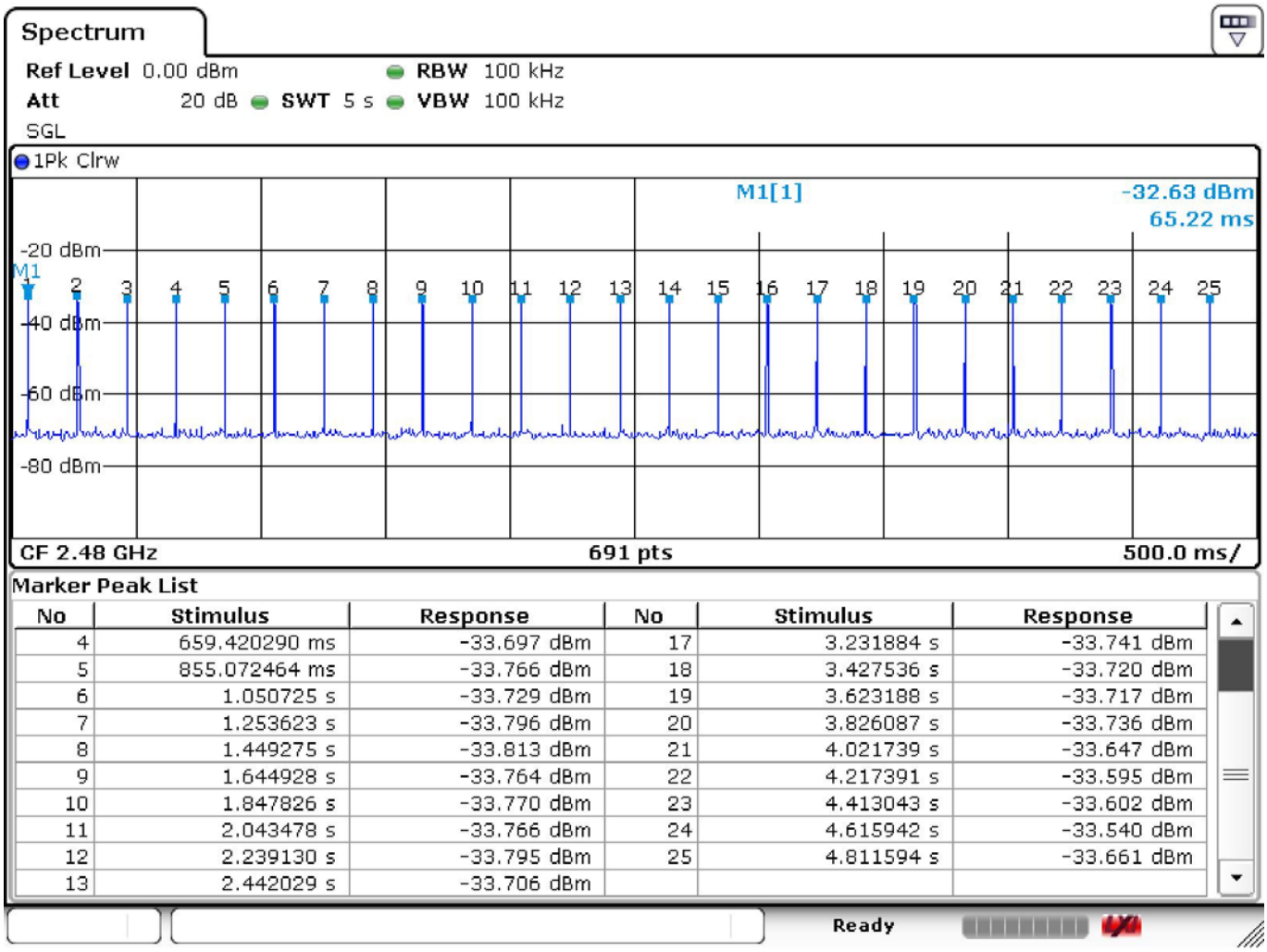
No	Stimulus	Response	No	Stimulus	Response
17	1.586957 s	-33.636 dBm	43	4.159420 s	-33.579 dBm
18	1.688406 s	-33.648 dBm	44	4.260870 s	-33.589 dBm
19	1.789855 s	-33.593 dBm	45	4.355072 s	-33.595 dBm
20	1.884058 s	-33.563 dBm	46	4.456522 s	-33.581 dBm
21	1.985507 s	-33.579 dBm	47	4.557971 s	-33.536 dBm
22	2.079710 s	-33.654 dBm	48	4.652174 s	-33.527 dBm
23	2.181159 s	-33.647 dBm	49	4.753623 s	-33.542 dBm
24	2.282609 s	-33.558 dBm	50	4.855072 s	-33.592 dBm
25	2.376812 s	-33.582 dBm	51	4.949275 s	-33.557 dBm
26	2.478261 s	-33.651 dBm			

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 2 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1] -1.67 dB
420.29 µs
M1[1] -67.51 dBm
165.01 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
M1
D1
M2
CF 2.48 GHz
691 pts
200.0 µs/
Ready

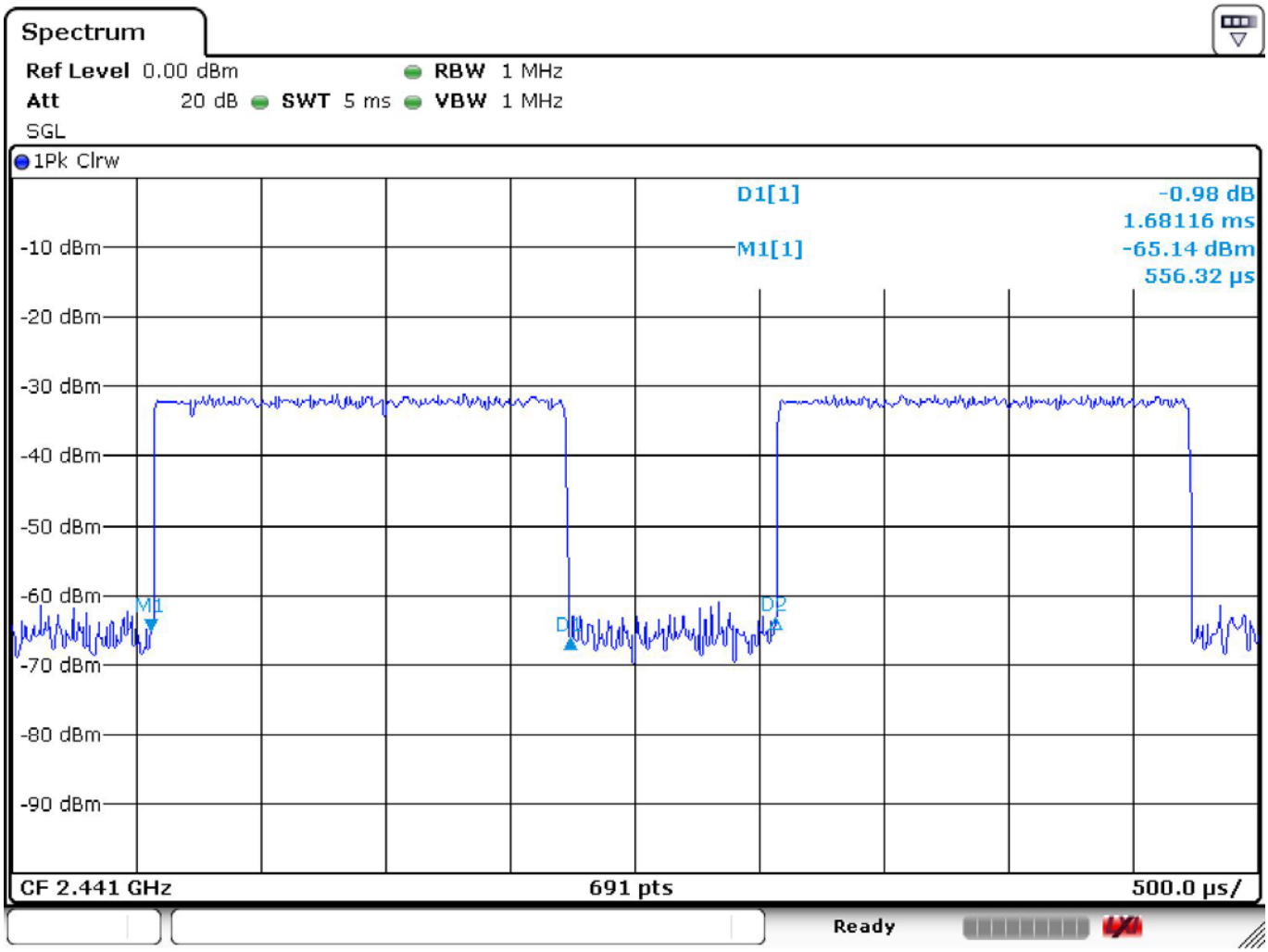
Test Mode : BT EDR (3 Mbps) DH3 Channel : 78

Number of Pulses Per 5 sec



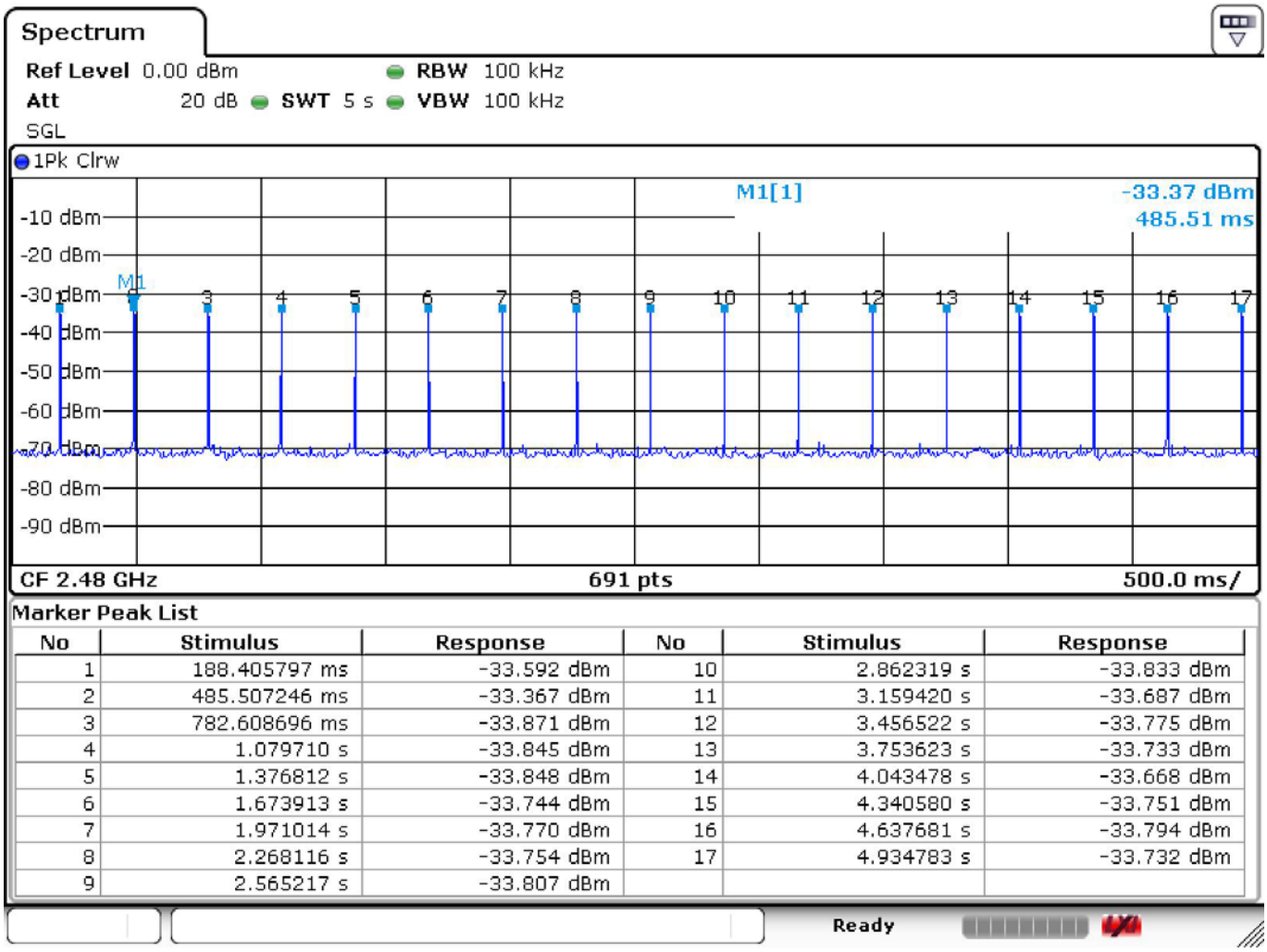
No	Stimulus	Response	No	Stimulus	Response
4	659.420290 ms	-33.697 dBm	17	3.231884 s	-33.741 dBm
5	855.072464 ms	-33.766 dBm	18	3.427536 s	-33.720 dBm
6	1.050725 s	-33.729 dBm	19	3.623188 s	-33.717 dBm
7	1.253623 s	-33.796 dBm	20	3.826087 s	-33.736 dBm
8	1.449275 s	-33.813 dBm	21	4.021739 s	-33.647 dBm
9	1.644928 s	-33.764 dBm	22	4.217391 s	-33.595 dBm
10	1.847826 s	-33.770 dBm	23	4.413043 s	-33.602 dBm
11	2.043478 s	-33.766 dBm	24	4.615942 s	-33.540 dBm
12	2.239130 s	-33.795 dBm	25	4.811594 s	-33.661 dBm
13	2.442029 s	-33.706 dBm			

Pulse Width (sec)


Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 5 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1]
-0.98 dB
1.68116 ms
M1[1]
-65.14 dBm
556.32 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
M1
D1
D2
CF 2.441 GHz
691 pts
500.0 µs/
Ready

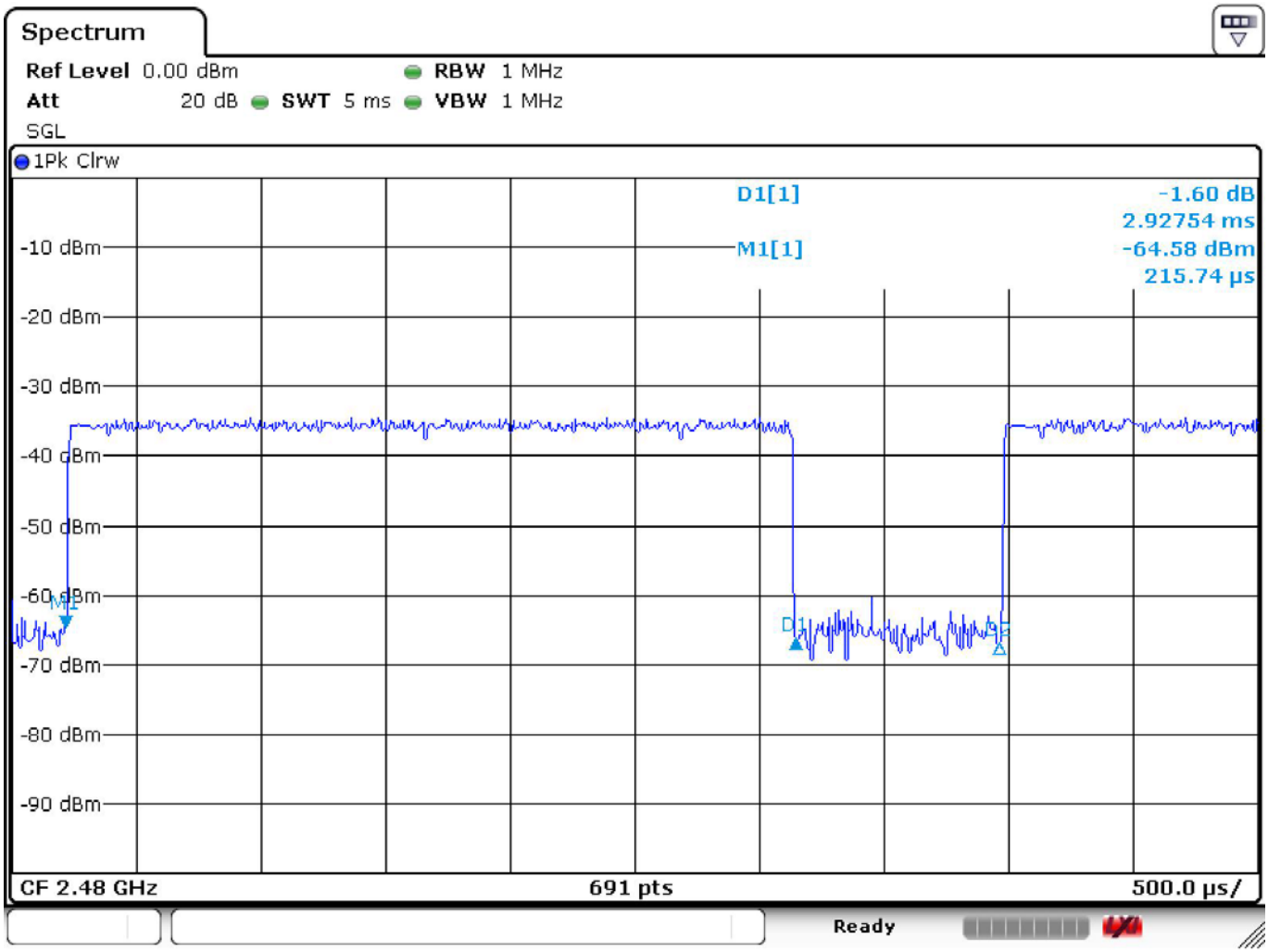
Test Mode : BT EDR (3 Mbps) DH5 Channel : 78

Number of Pulses Per 5 sec



No	Stimulus	Response	No	Stimulus	Response
1	188.405797 ms	-33.592 dBm	10	2.862319 s	-33.833 dBm
2	485.507246 ms	-33.367 dBm	11	3.159420 s	-33.687 dBm
3	782.608696 ms	-33.871 dBm	12	3.456522 s	-33.775 dBm
4	1.079710 s	-33.845 dBm	13	3.753623 s	-33.733 dBm
5	1.376812 s	-33.848 dBm	14	4.043478 s	-33.668 dBm
6	1.673913 s	-33.744 dBm	15	4.340580 s	-33.751 dBm
7	1.971014 s	-33.770 dBm	16	4.637681 s	-33.794 dBm
8	2.268116 s	-33.754 dBm	17	4.934783 s	-33.732 dBm
9	2.565217 s	-33.807 dBm			

Pulse Width (sec)

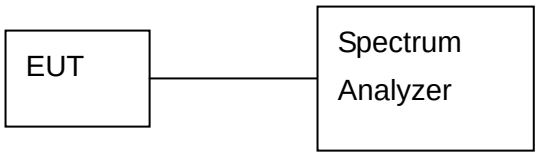

Spectrum
Ref Level 0.00 dBm
RBW 1 MHz
Att 20 dB SWT 5 ms VBW 1 MHz
SGL
1Pk Clrw
D1[1]
-1.60 dB
2.92754 ms
M1[1]
-64.58 dBm
215.74 µs
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
-90 dBm
CF 2.48 GHz
691 pts
500.0 µs/
Ready

8 Peak Output Power

8.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

8.2 Test Arrangement and Procedure



1. The transmitter output was connected to a spectrum analyzer (through an attenuator, if it's necessary).
2. The RBW is set to 3MHz and VBW is set to 3MHz. Span set to 5MHz.
3. Max Hold..

8.3 Limit (§ 15.247(b))

15.247(b) - The maximum peak conducted output power of the intentional radiator shall not exceed the following:

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.

15.247(b)(4) - The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The maximum antenna gain is 3 dBi, therefore, the limit is 30 dBm.

8.4 Test Result

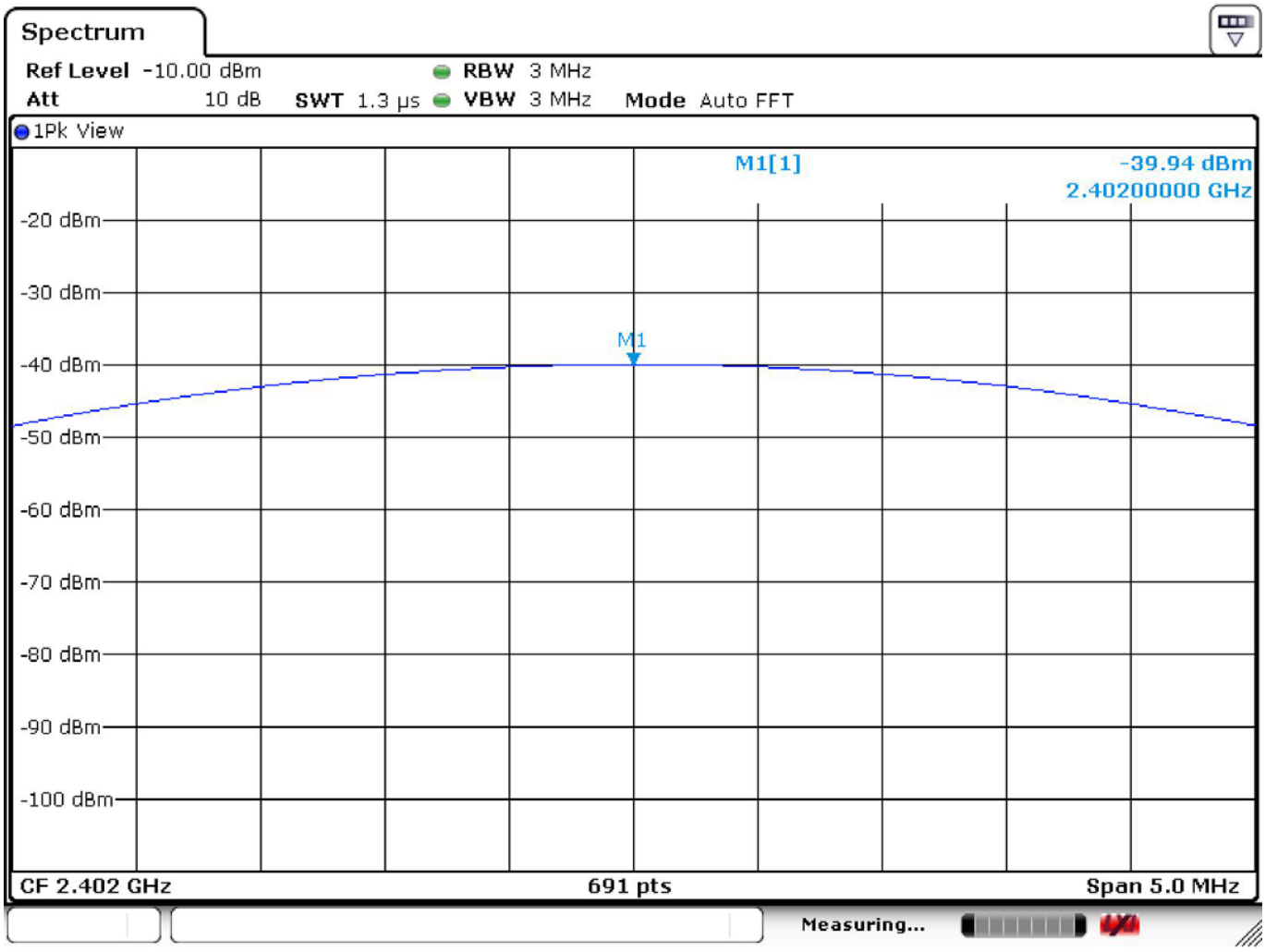
Compliance.

The final test data are shown on the following page(s).

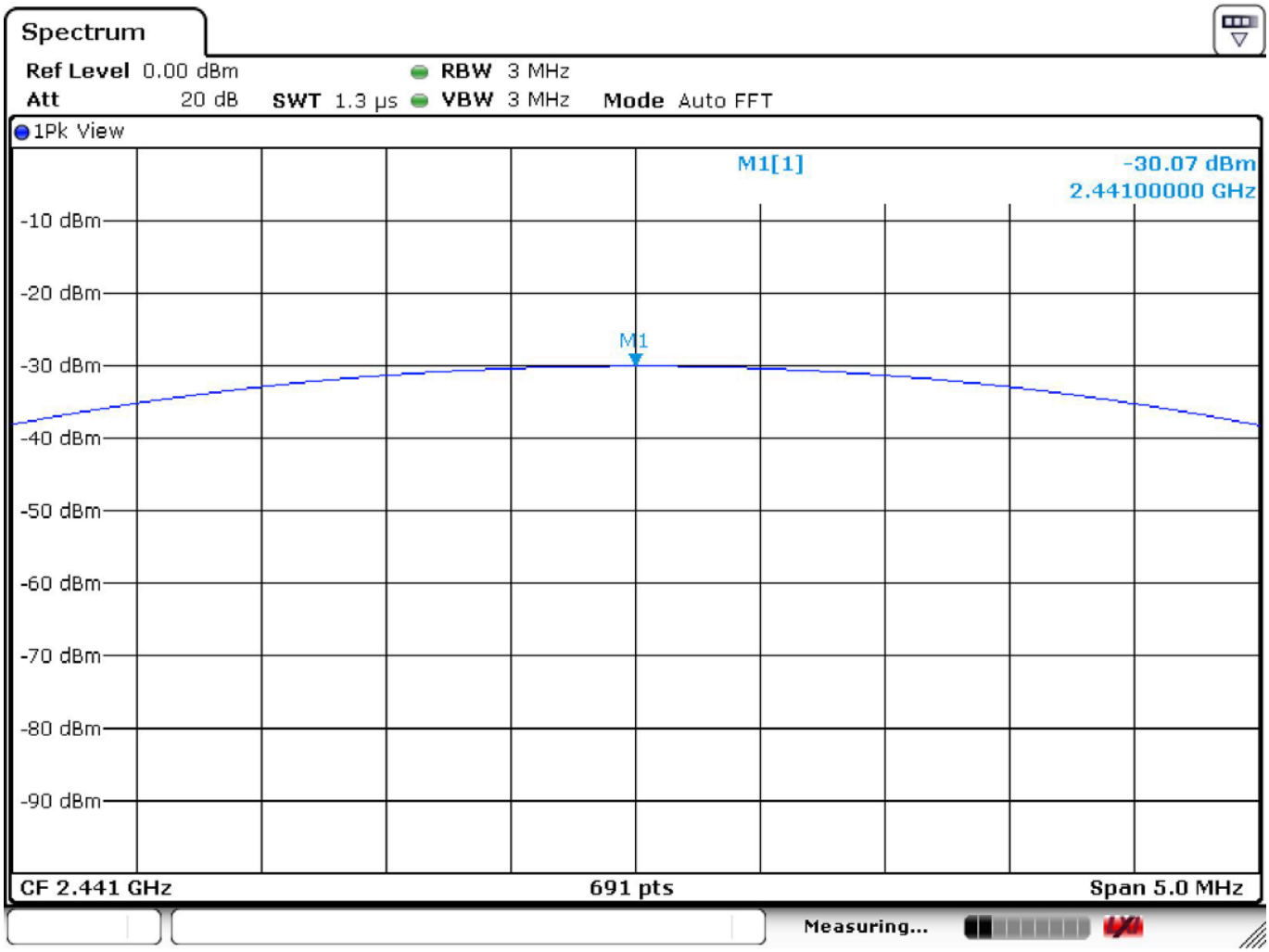
The Test Graphics of the worst case, BT (1 Mbps), have been selected to show on the following page(s).

Bluetooth 1 Mbps			
Channel	**Frequency (MHz)**	**Result (dBm)**	**Limit (dBm)**
00	2402	-39.94	30
39	2441	-30.07	30
78	2480	-32.63	30

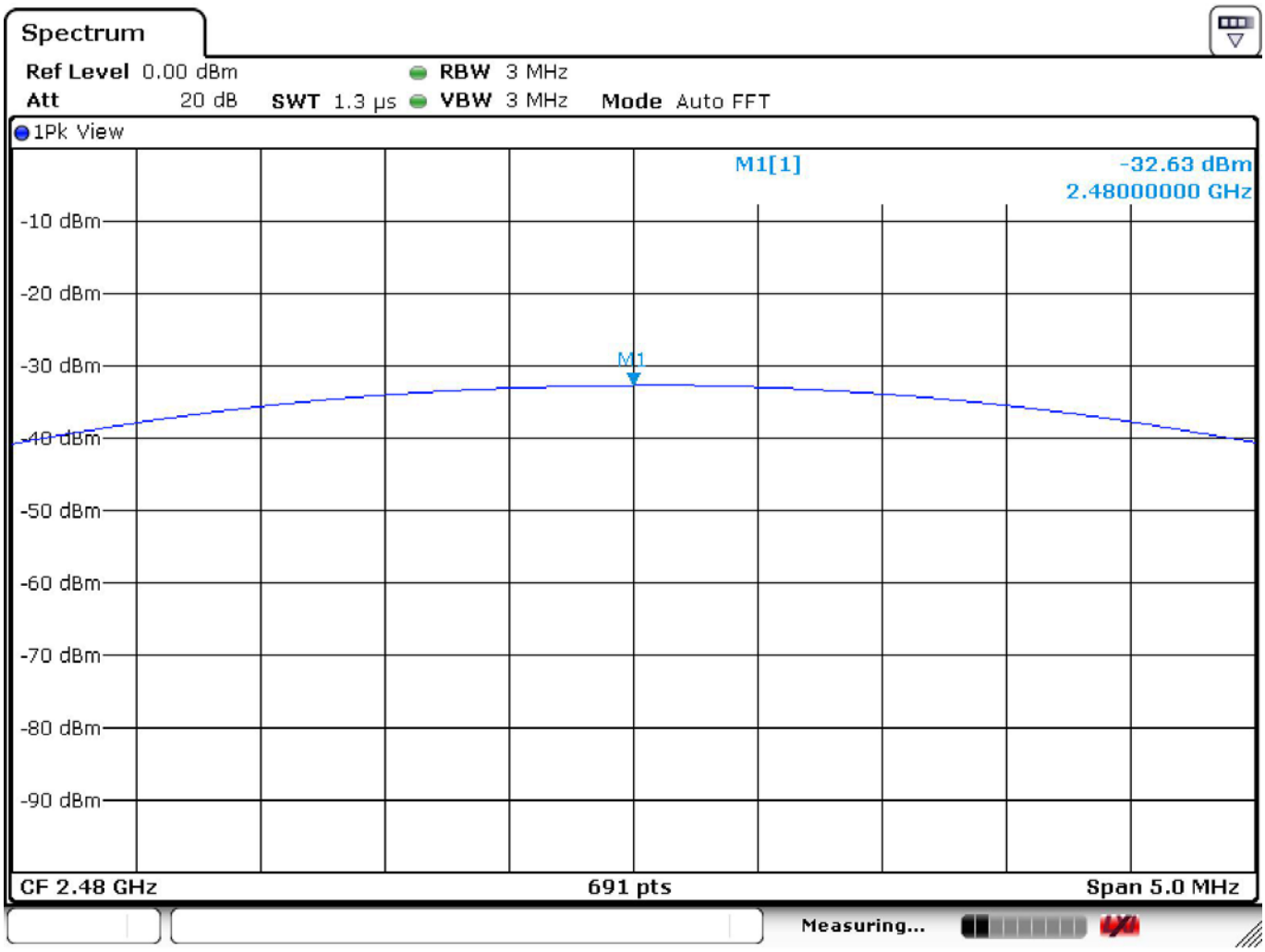
Temperature	:	28.1℃	Humidity	:	35%
Test Date	:	07-Sep-2015	Tested by	:	Eason Hsieh
Test Mode	:	BT (1Mbps)	Channel	:	00



Test Mode : BT (1Mbps) Channel : 39



Test Mode : BT (1 Mbps) Channel : 78

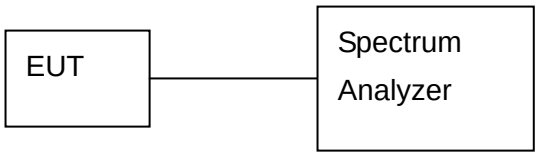


9 100kHz Bandwidth of Band Edges

9.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

9.2 Test Arrangement and Procedure



1. Remove the antenna from the transmitter and connected it to a spectrum analyzer through a low loss RF cable (connect an attenuator, if it's necessary).
2. The RBW is set to 100 kHz and VBW is set to 100 kHz. Sweep set to Auto. Span set to 100MHz.
3. Max Hold. Mark Peak and record max level.
4. Keep the same instrument setting, perform the hopping function.
5. Max Hold. Mark Peak and record max level.

9.3 Limit (§ 15.247(d))

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. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

9.4 Test Result

Compliance.

The final test data are shown on the following page(s).

Since the fix channel mode is the worst case, test graphics of the hopping mode were not recorded in this report.

Bluetooth (1Mbps) Channel: 00 (non-hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Lower Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2401.97	-42.82	2374.33	-88.53	45.71	20
Bluetooth EDR (2Mbps) Channel: 00 (non-hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Lower Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2401.97	-44.75	2367.24	-88.35	43.6	20
Bluetooth EDR (3Mbps) Channel: 00 (non-hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Lower Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2401.82	-43.10	2373.89	-88.07	44.97	20

Bluetooth (1Mbps) Channel: 00 (hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Lower Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2409.93	-34.68	2396.32	-78.79	44.11	20
Bluetooth EDR (2Mbps) Channel: 00 (hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Lower Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2407.03	-39.91	2396.10	-78.43	38.52	20
Bluetooth EDR (3Mbps) Channel: 00 (hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Lower Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2409.06	-39.27	2384.46	-78.25	38.98	20

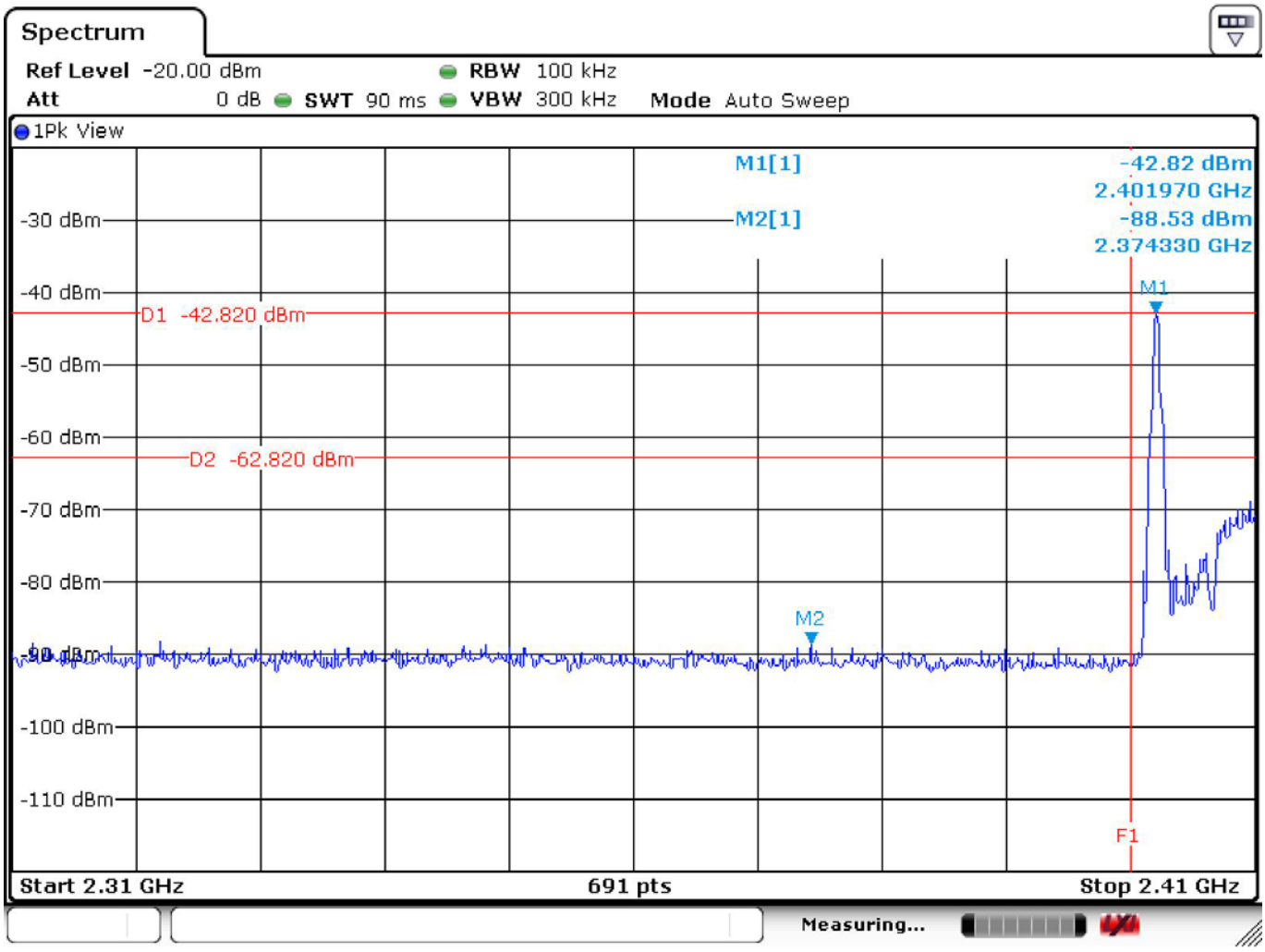
Remark: Result (dB) = Max Peak Power – Max Peak power at lower band edge. When Result > Limit, it's a pass.

Bluetooth (1Mbps) Channel: 78 (non-hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Upper Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2480.03	-35.13	2508.38	-78.28	43.15	20
Bluetooth EDR (2Mbps) Channel: 78 (non-hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Upper Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2480.03	-36.52	2532.26	-78.03	41.51	20
Bluetooth EDR (3Mbps) Channel: 78 (non-hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Upper Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2480.03	-37.90	2484.82	-78.91	41.01	20

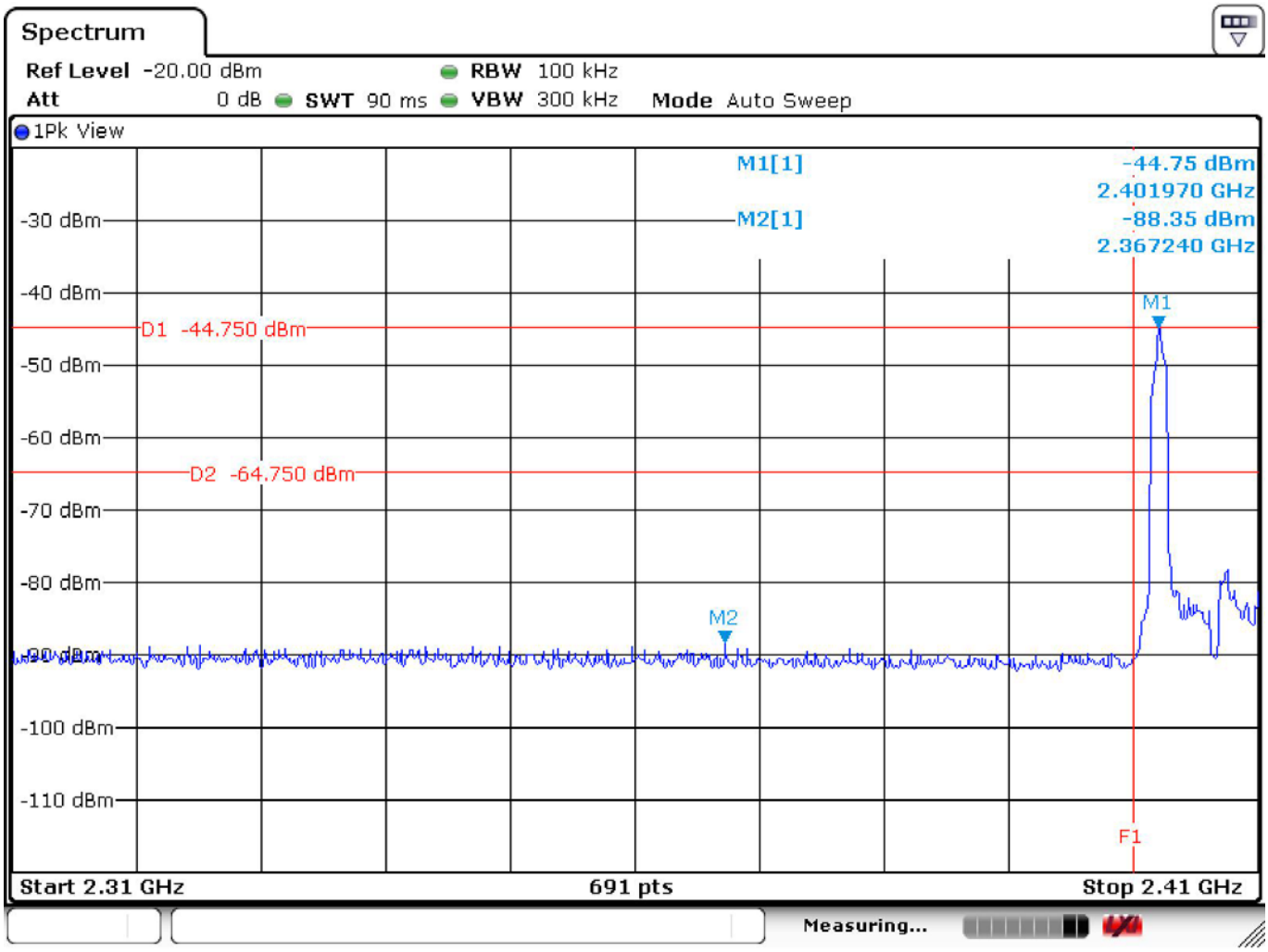
Bluetooth (1Mbps) Channel: 78 (hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Upper Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2473.02	-31.85	2583.18	-76.81	44.96	20
Bluetooth EDR (2Mbps) Channel: 78 (hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Upper Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2472.07	-34.96	2492.76	-77.51	42.55	20
Bluetooth EDR (3Mbps) Channel: 78 (hopping mode)					
Measured Result				Result (dB)	Limit (dB)
Upper Channel (MHz)	Max Peak Power (dBm)	Highest Freq. at Lower Band edge (MHz)	Max Peak Power at Lower Band edge (dBm)		
2473.02	-34.94	2490.85	-77.52	42.58	20

Remark: Result (dB) = Max Peak Power – Max Peak power at lower band edge. When Result > Limit, it's a pass.

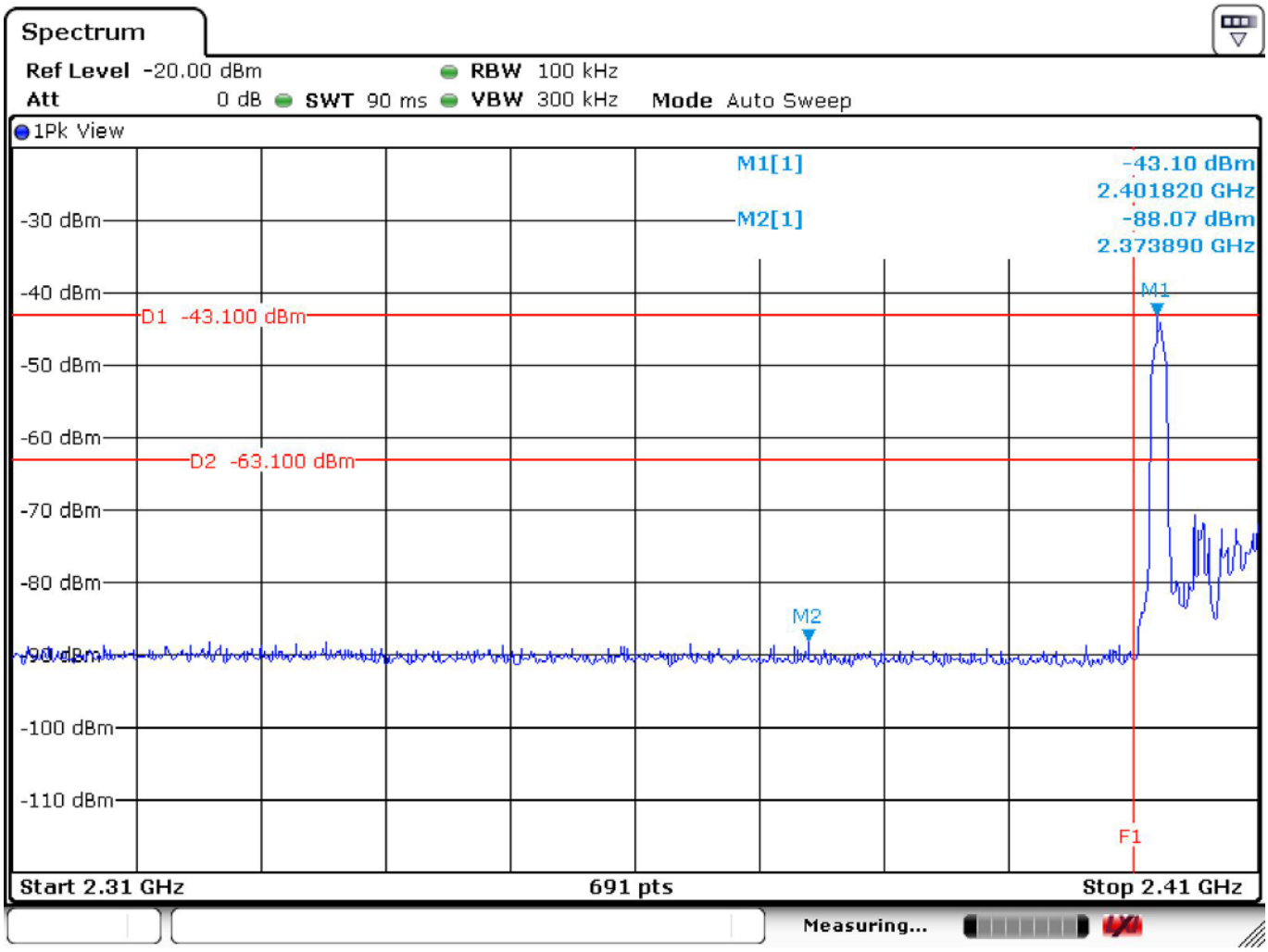
Temperature	:	28.1℃	Humidity	:	35%
Test Date	:	07-Sep-2015	Tested by	:	Eason Hsieh
Test Mode	:	BT (1Mbps) non-hopping mode	Channel	:	2402



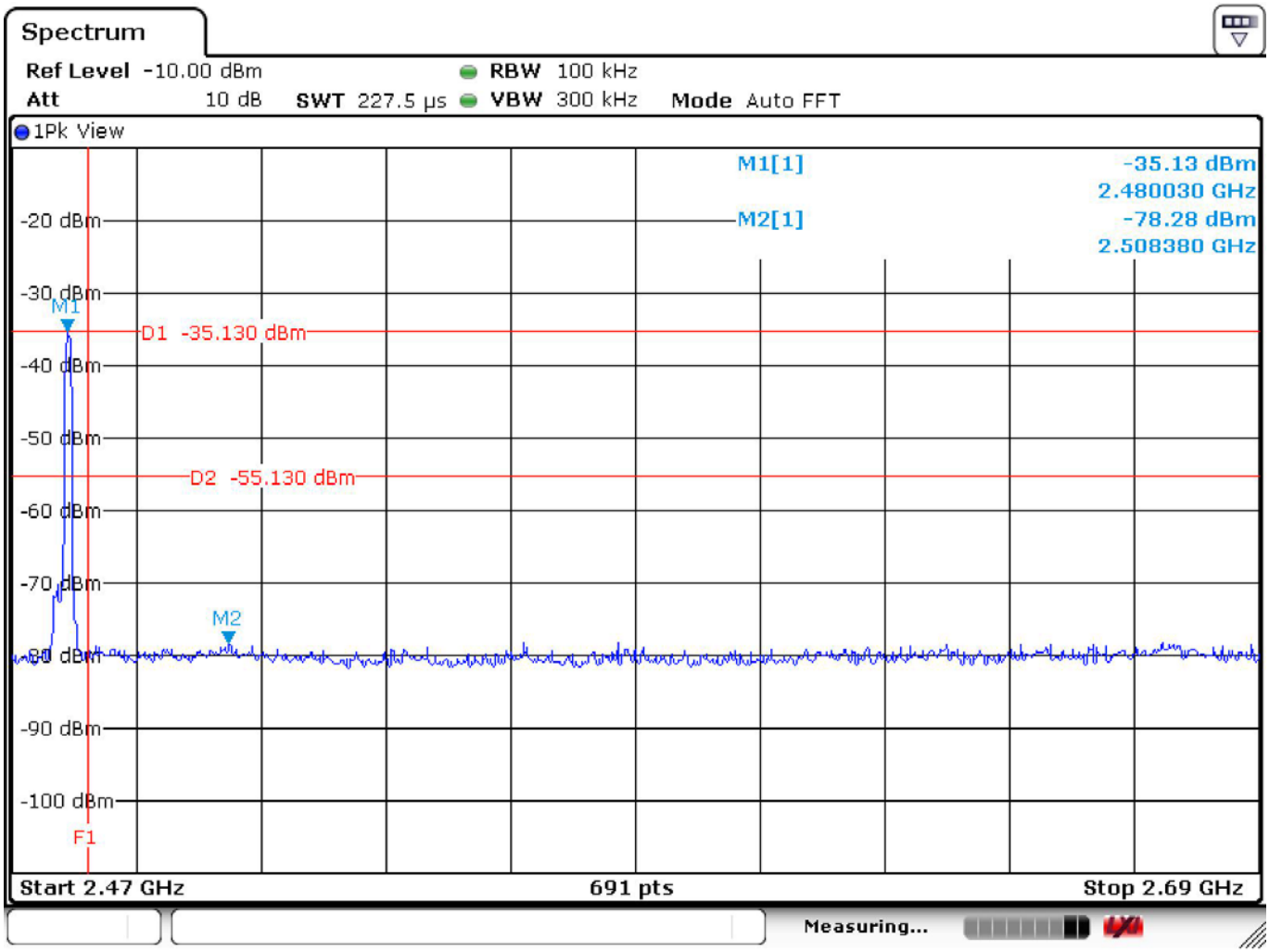
Test Mode : BT EDR (2Mbps) non-hopping mode Channel : 2402



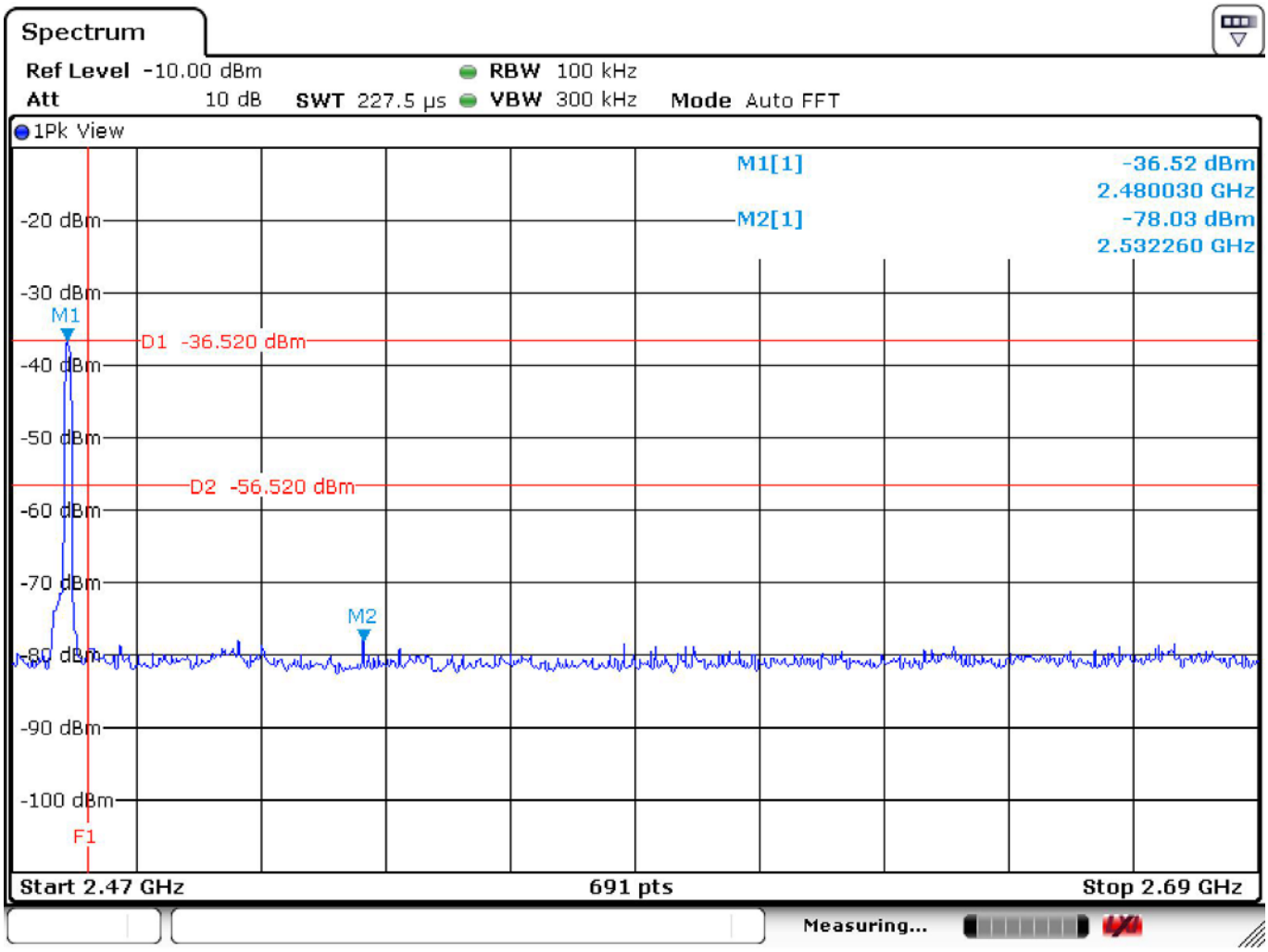
Test Mode : EDR (3Mbps) non-hopping mode Channel : 2402



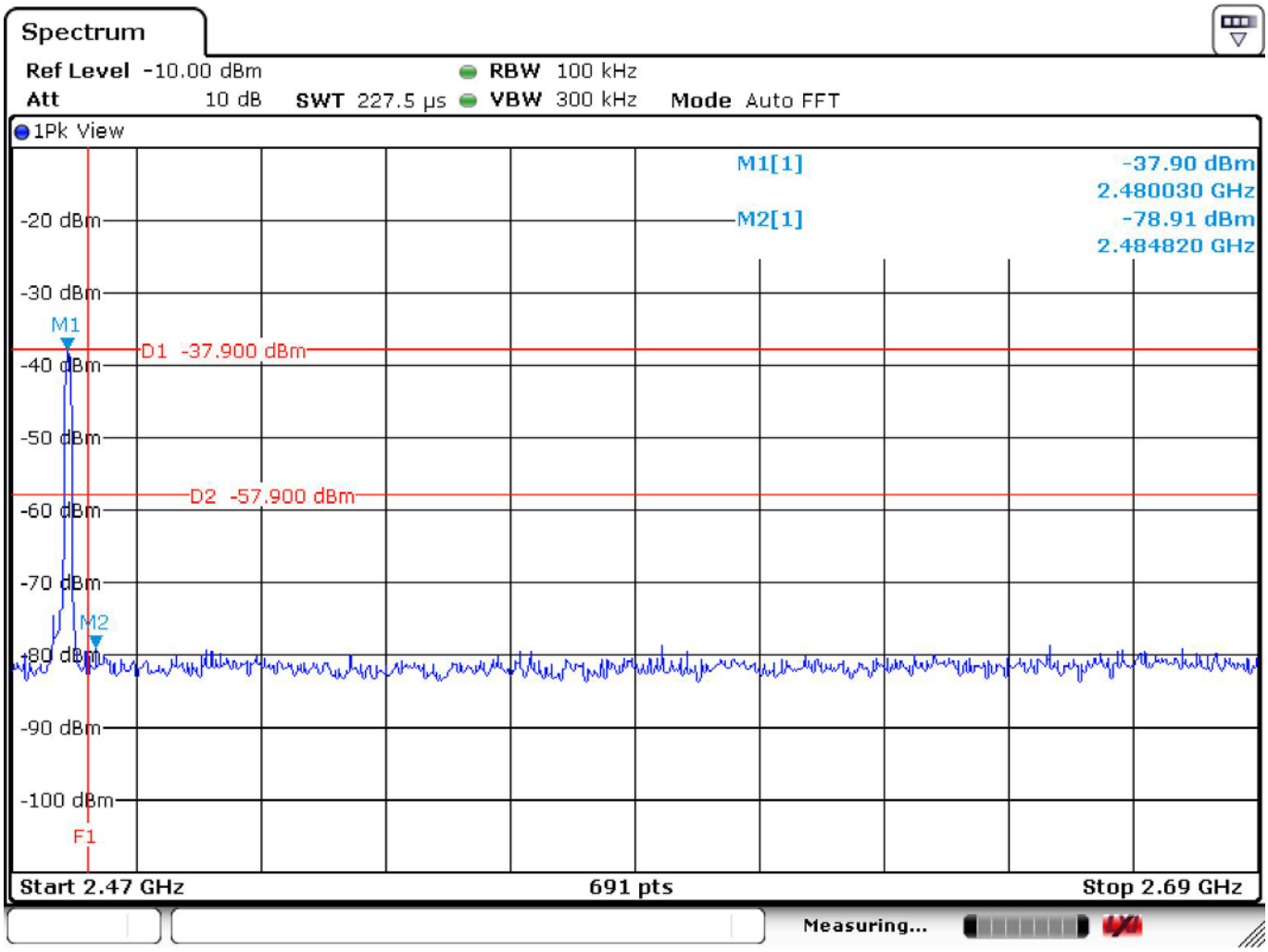
Test Mode : BT (1 Mbps) non-hopping mode Channel : 2480



Test Mode : BT EDR (2 Mbps) non-hopping mode Channel : 2480



Test Mode : BT EDR (3 Mbps) non-hopping mode Channel : 2480

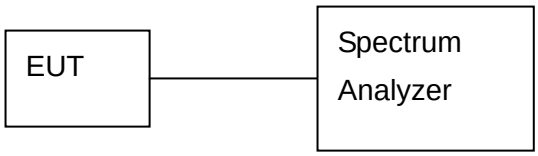


10 Spurious RF Conducted Emissions

10.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

10.2 Test Arrangement and Procedure



1. Remove the antenna from the transmitter and connected it to a spectrum analyzer through a low loss RF cable (connect an attenuator, if it's necessary).
2. Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.

3. Typically, several plots are required to cover this entire span.
4. RBW = 100 kHz ; VBW ≧ RBW ; Sweep = auto
5. Detector function = peak ; Trace = max hold ; Allow the trace to stabilize.
6. Set the marker on the peak of any spurious emission recorded.
7. The level displayed must comply with the limit specified in this Section.
8. Submit these plots.

10.3 Limit (§ 15.247(d))

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. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

10.4 Test Result

Compliance.

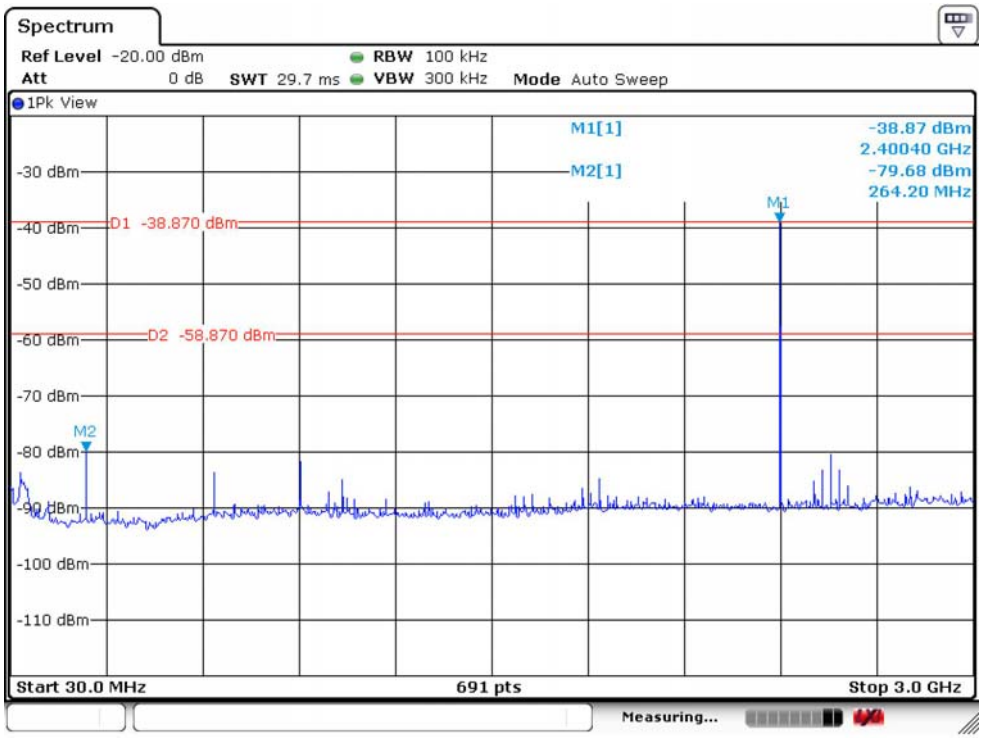
The final test data are shown on the following page(s).

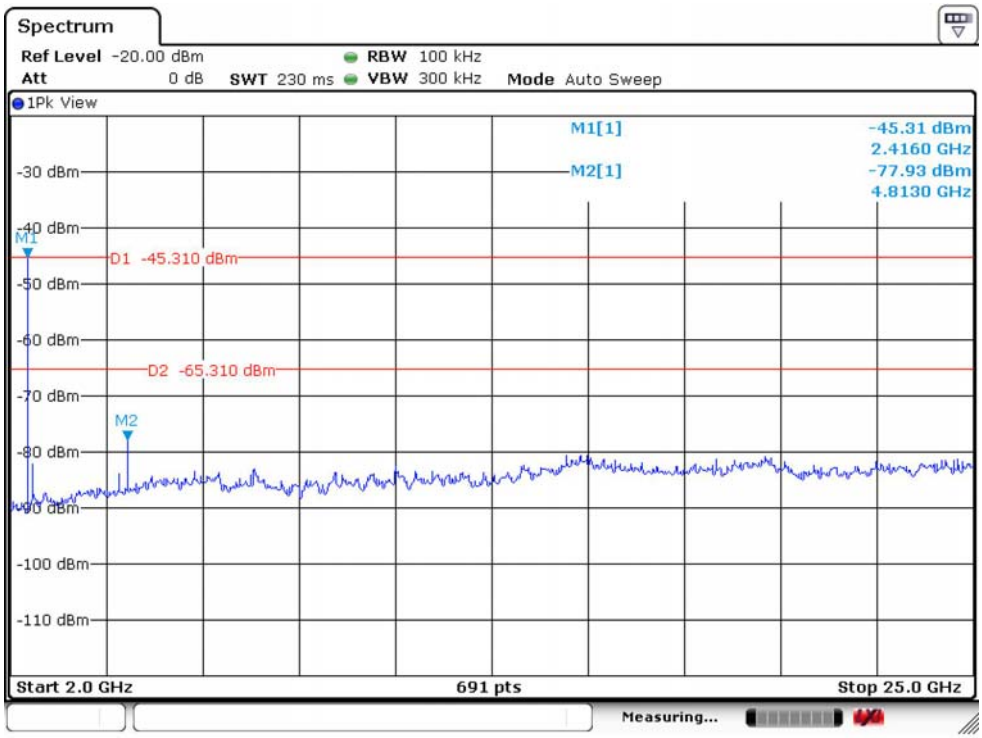
Since the fix channel mode is the worst case, data of the hopping mode were not recorded in this report.

Bluetooth (1Mbps) Channel: 00					
Measured Result				Result (dB)	Limit (dB)
(GHz)	Max Peak Power (dBm)	Highest Freq. at spurious emissions (GHz)	Max Peak Power at spurious emissions (dBm)		
2.40040	-38.87	0.2642	-79.68	40.81	20
2.4160	-45.31	4.813	-77.93	32.62	20

Remark: Result (dB) = Max Peak Power – Max Peak power at spurious emissions.

When Result > Limit, it's a pass.

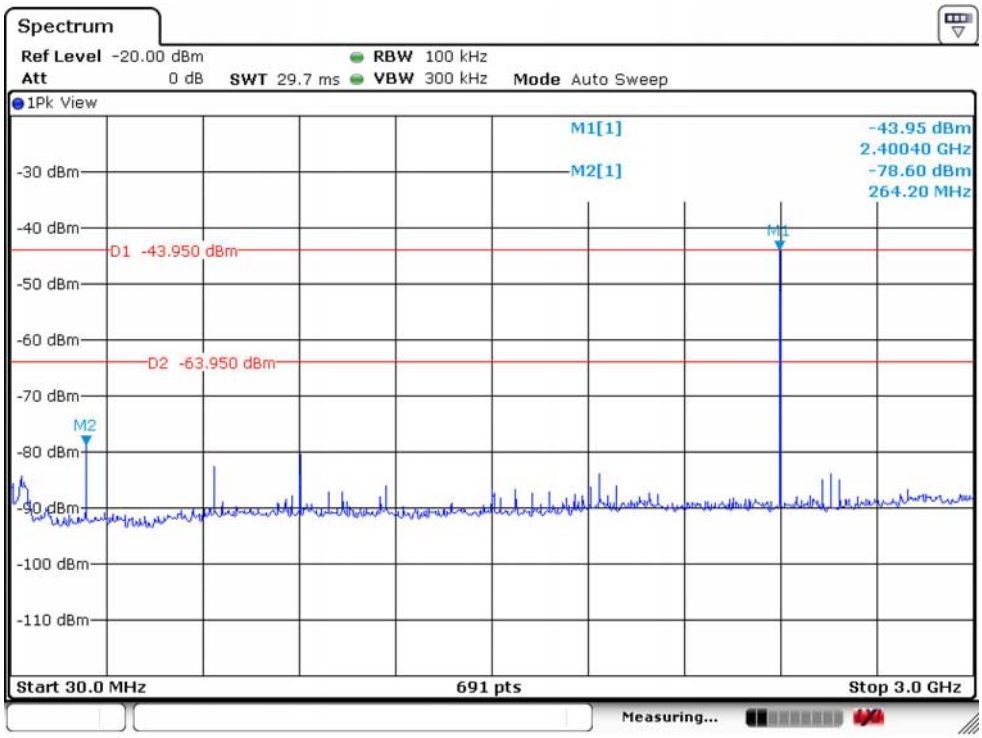


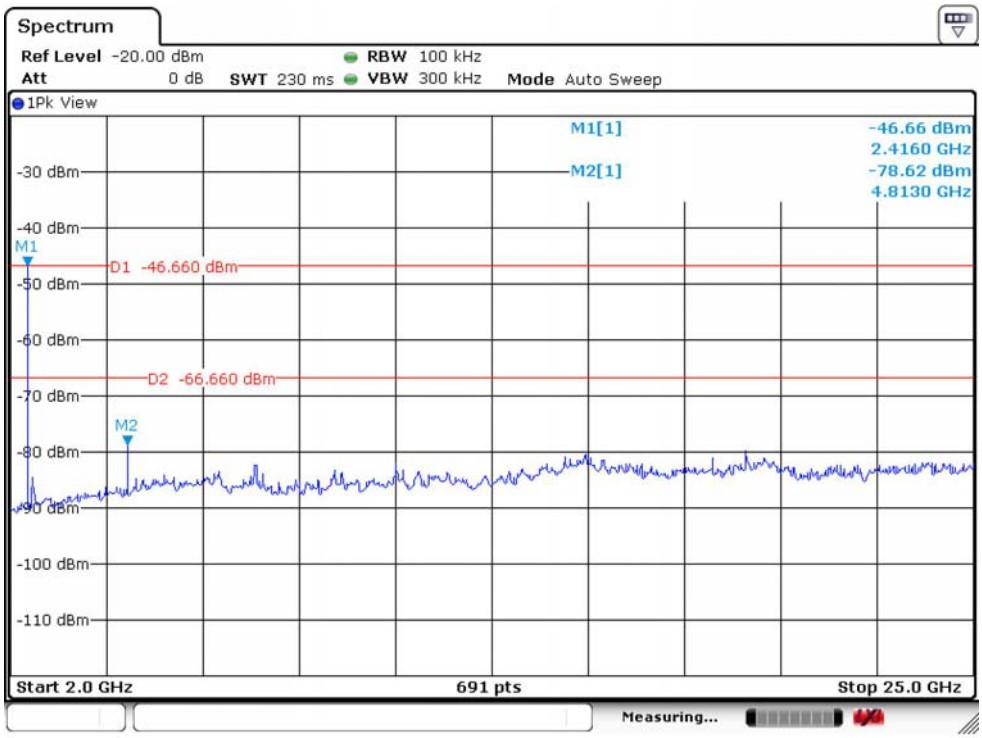


Bluetooth (1Mbps) Channel: 39					
Measured Result				Result (dB)	Limit (dB)
(GHz)	Max Peak Power (dBm)	Highest Freq. at spurious emissions (GHz)	Max Peak Power at spurious emissions (dBm)		
2.40040	-43.95	0.2642	-78.60	34.65	20
2.4160	-46.66	4.8130	-78.62	31.96	20

Remark: Result (dB) = Max Peak Power – Max Peak power at spurious emissions.

When Result > Limit, it's a pass.

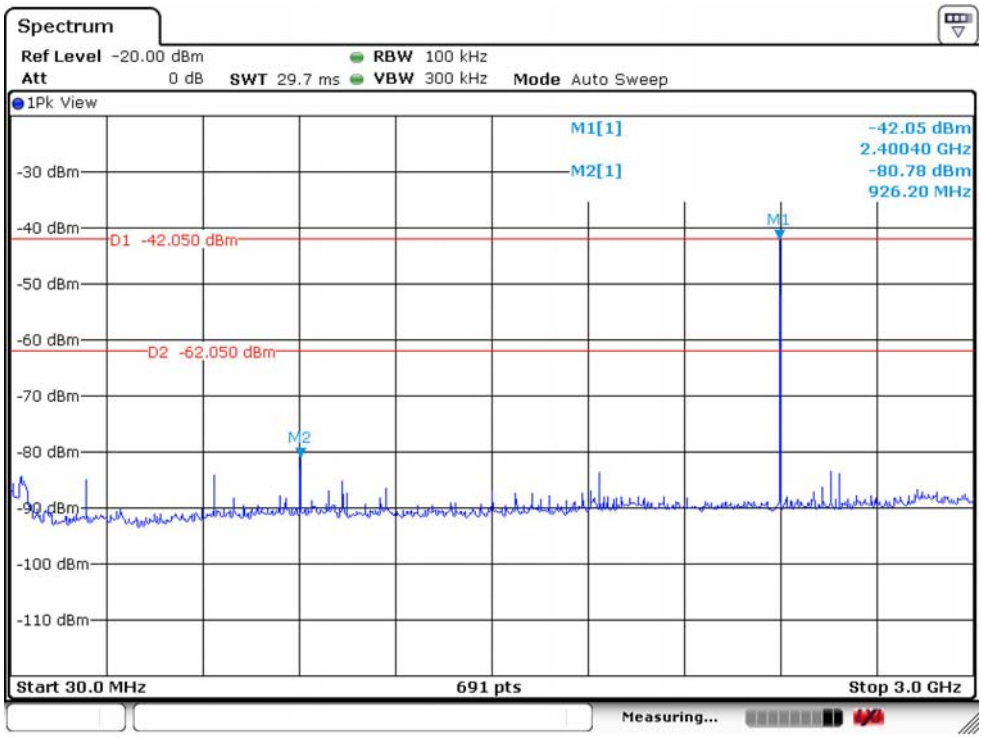


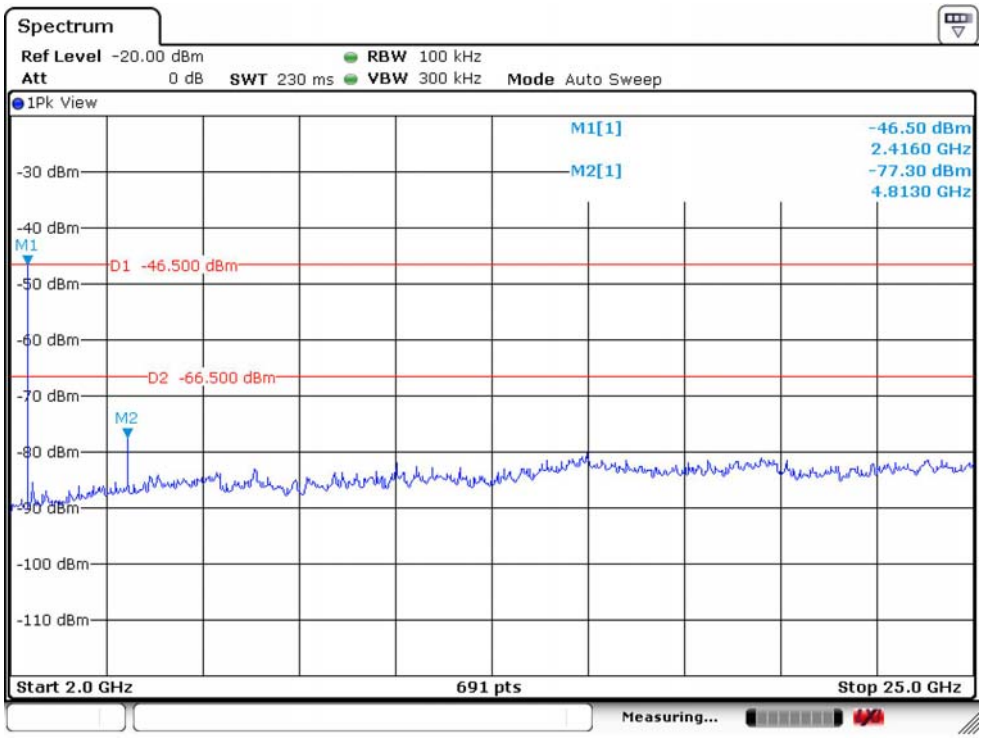


Bluetooth (1Mbps) Channel: 78					
Measured Result				Result (dB)	Limit (dB)
(GHz)	Max Peak Power (dBm)	Highest Freq. at spurious emissions (GHz)	Max Peak Power at spurious emissions (dBm)		
2.40040	-42.05	0.9262	-80.78	38.73	20
2.4160	-46.50	4.8130	-77.30	30.8	20

Remark: Result (dB) = Max Peak Power – Max Peak power at spurious emissions.

When Result > Limit, it's a pass.





11 Antenna requirement

11.1 Limit (§ 15.203)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a uniue coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

11.2 Test Result

Compliance.

The EUT applies a Chip Ceramic antenna.

12 Information about the FHSS characteristics

12.1 Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels.

The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; the phase in the hopping sequence is determined by the Bluetooth clock of the master.

The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The nominal hop rate is 1600 hops/s.

12.2 Example of a 79 hopping sequence in data mode:

02, 05, 31 , 24, 20, 10,43, 36, 30, 23, 40, 06, 21, 50, 44, 09, 71 , 78, 01, 13, 73, 07, 70, 72, 35, 62, 42, 11, 41, 08, 16, 29, 60, 15, 34, 61, 58, 04, 67, 12, 22, 53, 57, 18, 27, 76, 39, 32, 17, 77, 52, 33, 56, 46, 37, 47, 64, 49, 45, 38, 69, 14, 51, 26, 79, 19, 28, 65, 75, 54, 48, 03, 25, 66, 05, 16, 68, 74, 59, 63, 55

12.3 Equal Hopping Frequency Use

Due to each the GFSK of modulation of hopping frequency will be transmitted in accordance to the frequency tables described above, there is no any frequency will be able to hop more times than other. Therefore each frequency will be used equally.

----------End Of Test Report----------