3960 MHz

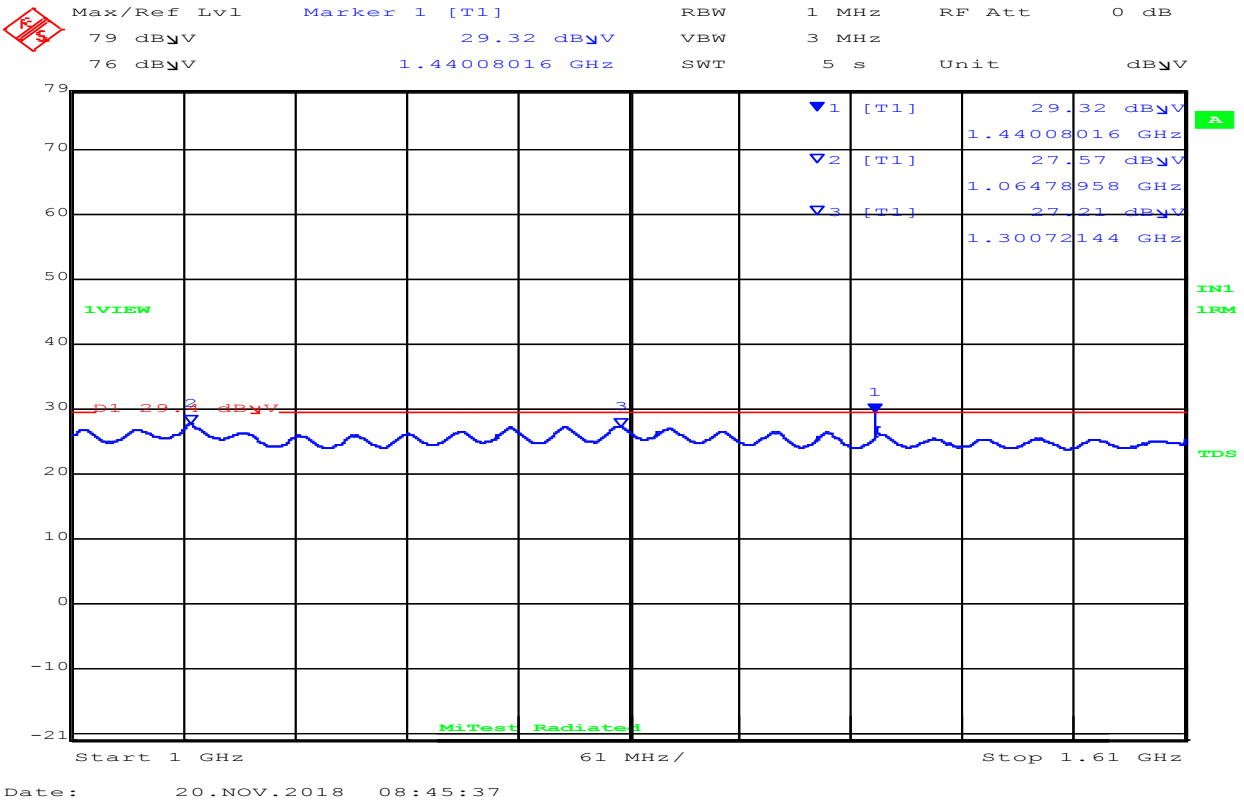
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	28.2	Average	Horizontal	150	0	29.4	-1.2	Pass
2	1064.8	25.8	Average	Horizontal	150	0	29.4	-3.6	Pass
2	1300.7	24.5	Average	Horizontal	150	0	29.4	-4.9	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

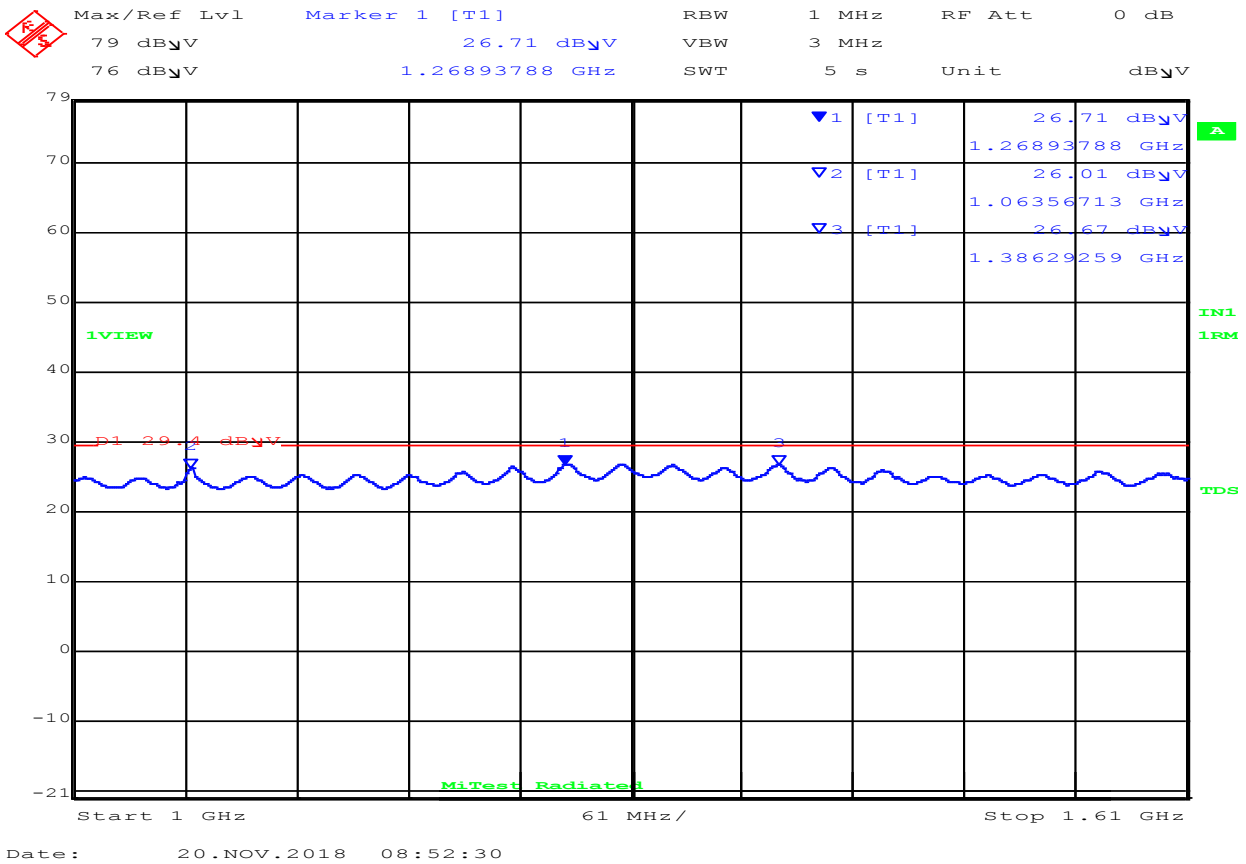
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 08:52:30

1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1268.9	24.6	Average	Vertical	150	0	29.4	-4.80	Pass
2	1063.6	23.8	Average	Vertical	150	0	29.4	-5.60	Pass
2	1386.3	24.1	Average	Vertical	150	0	29.4	-5.30	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

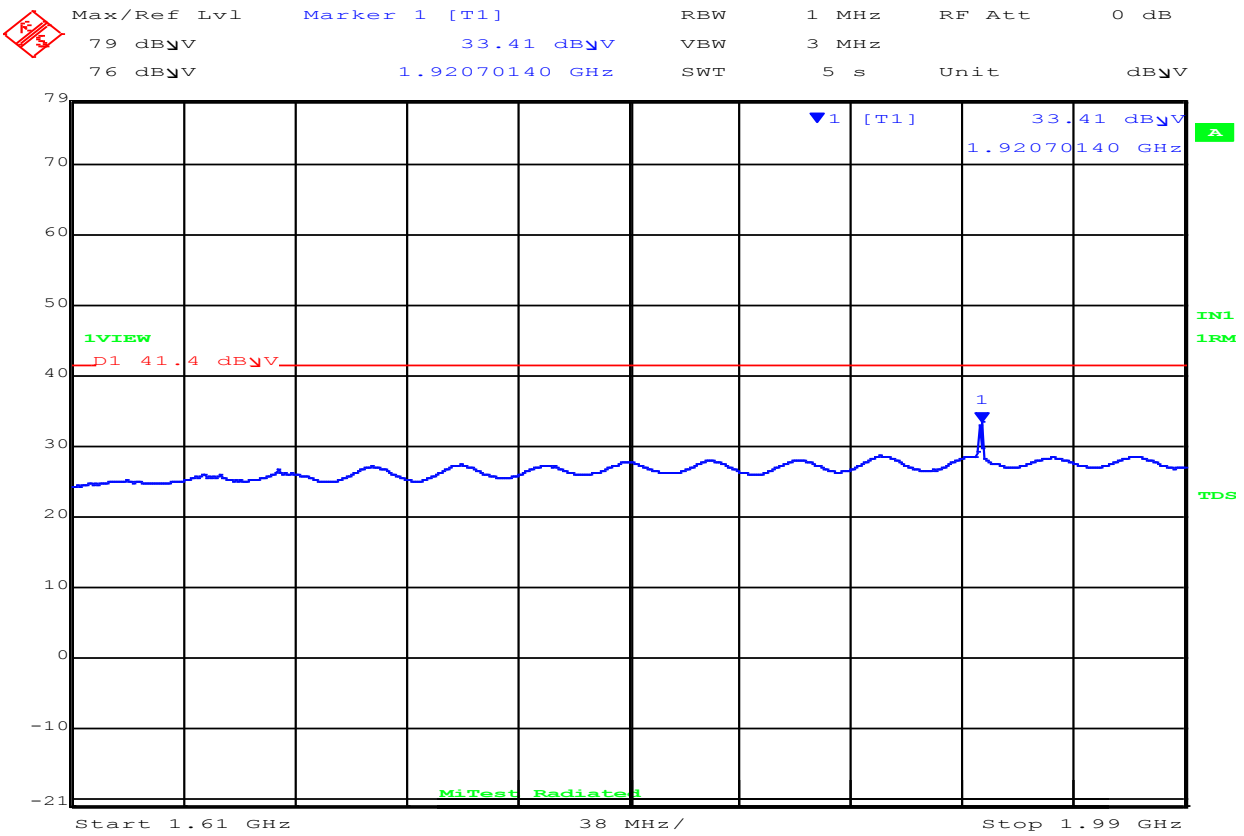
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 09:00:24

1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

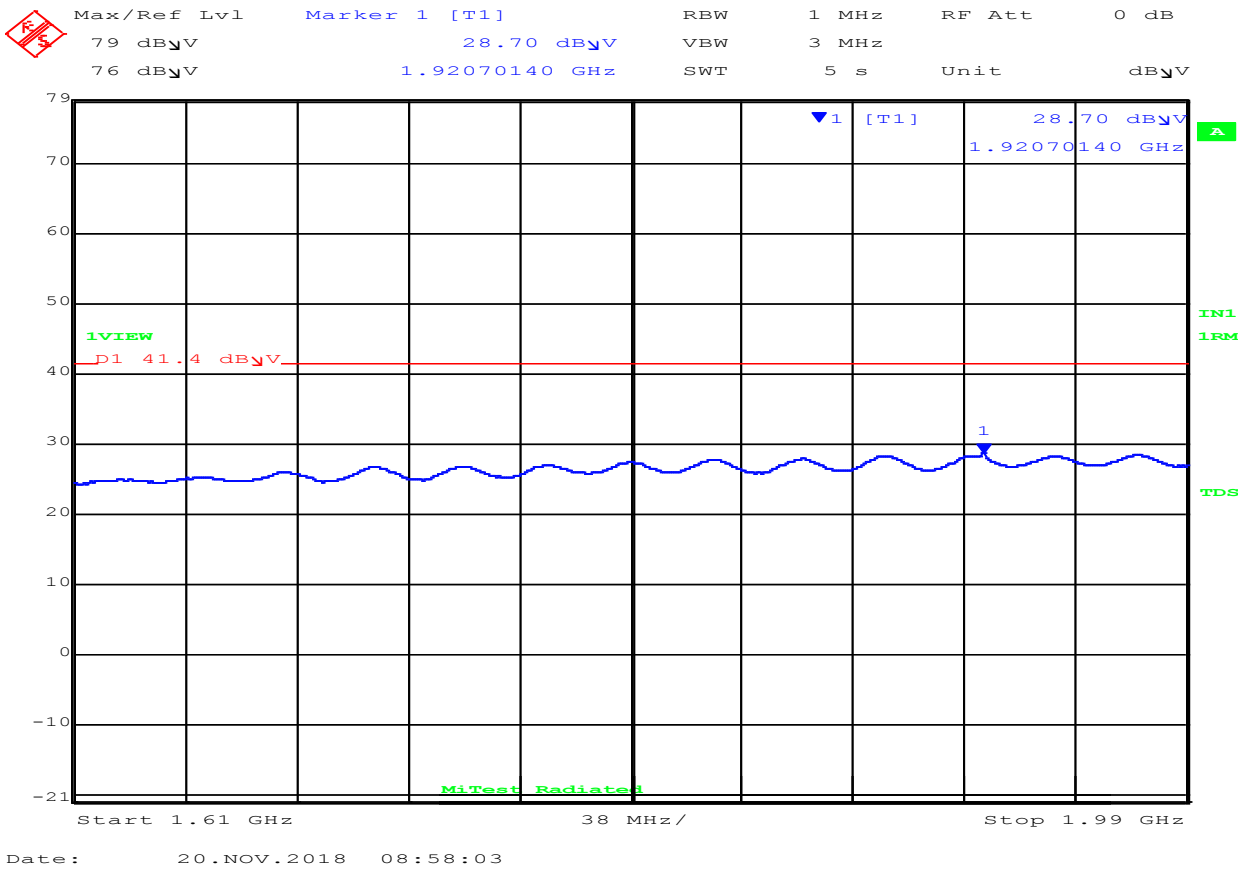
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

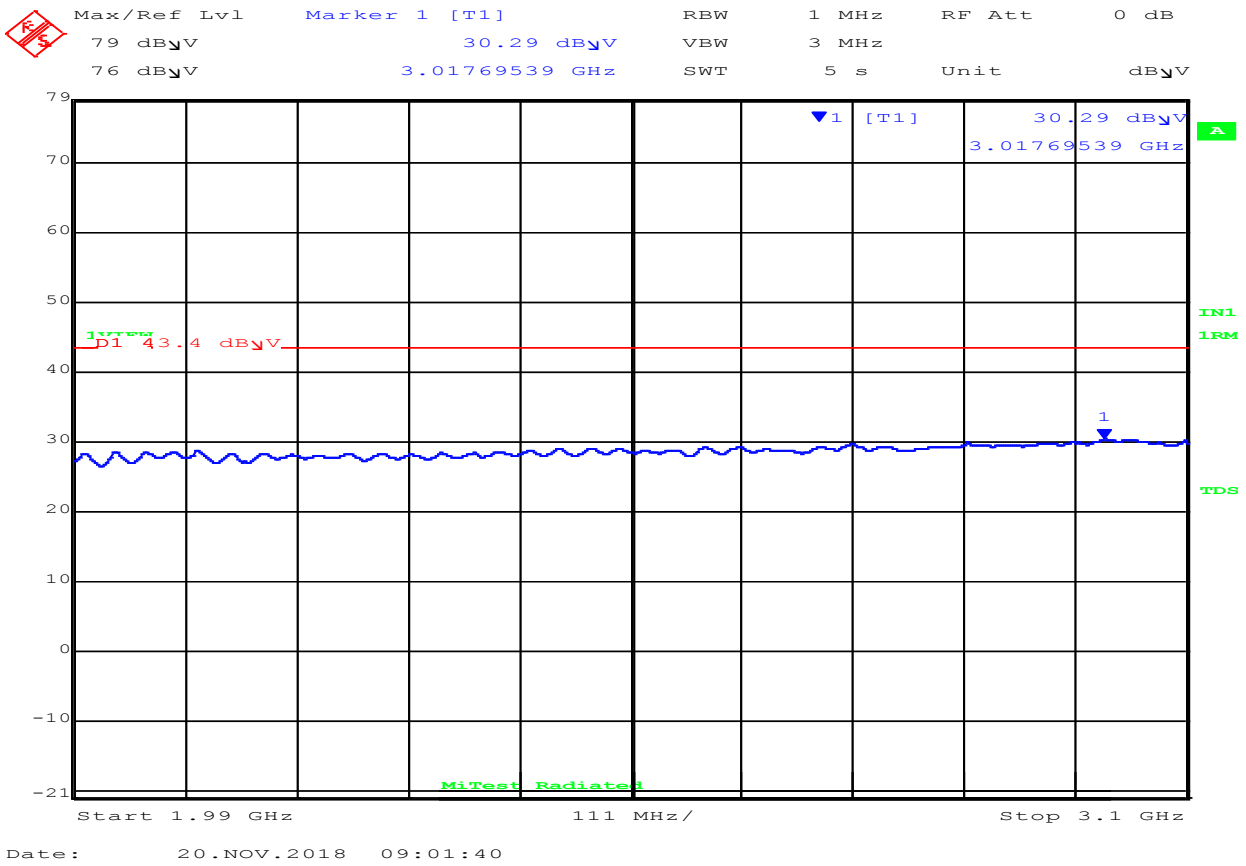
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 09:01:40

1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

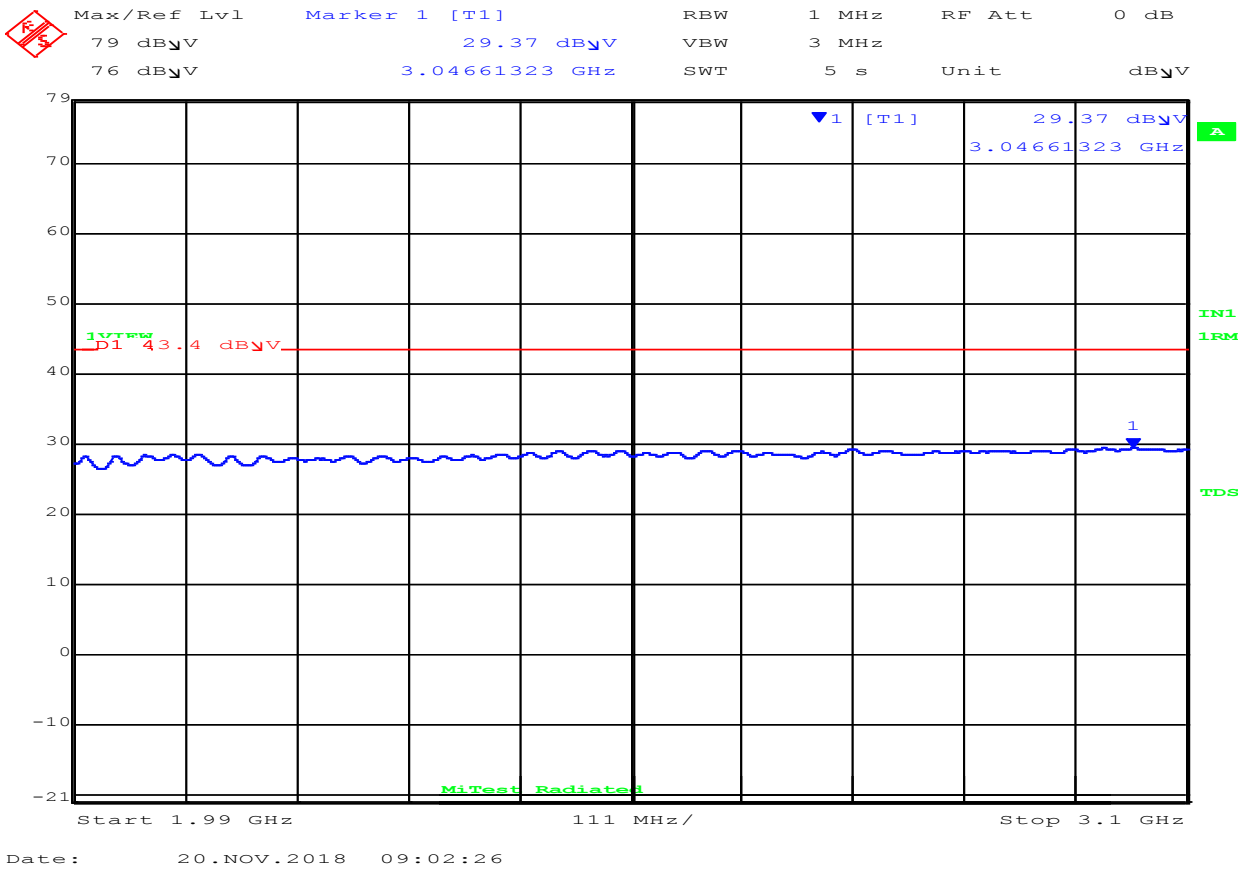
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

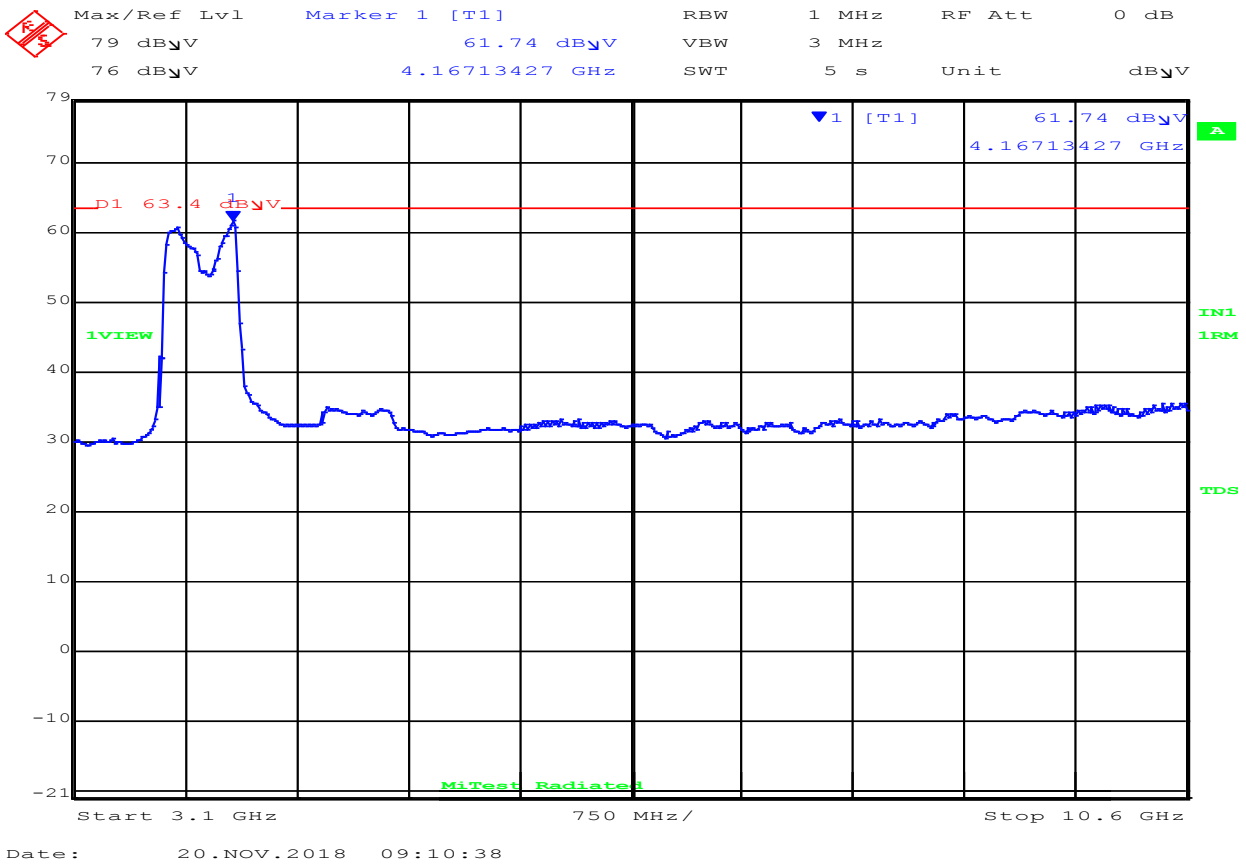
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 09:10:38

3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	4167.1	61.5	Average	Horizontal	150	0	63.4	-1.90	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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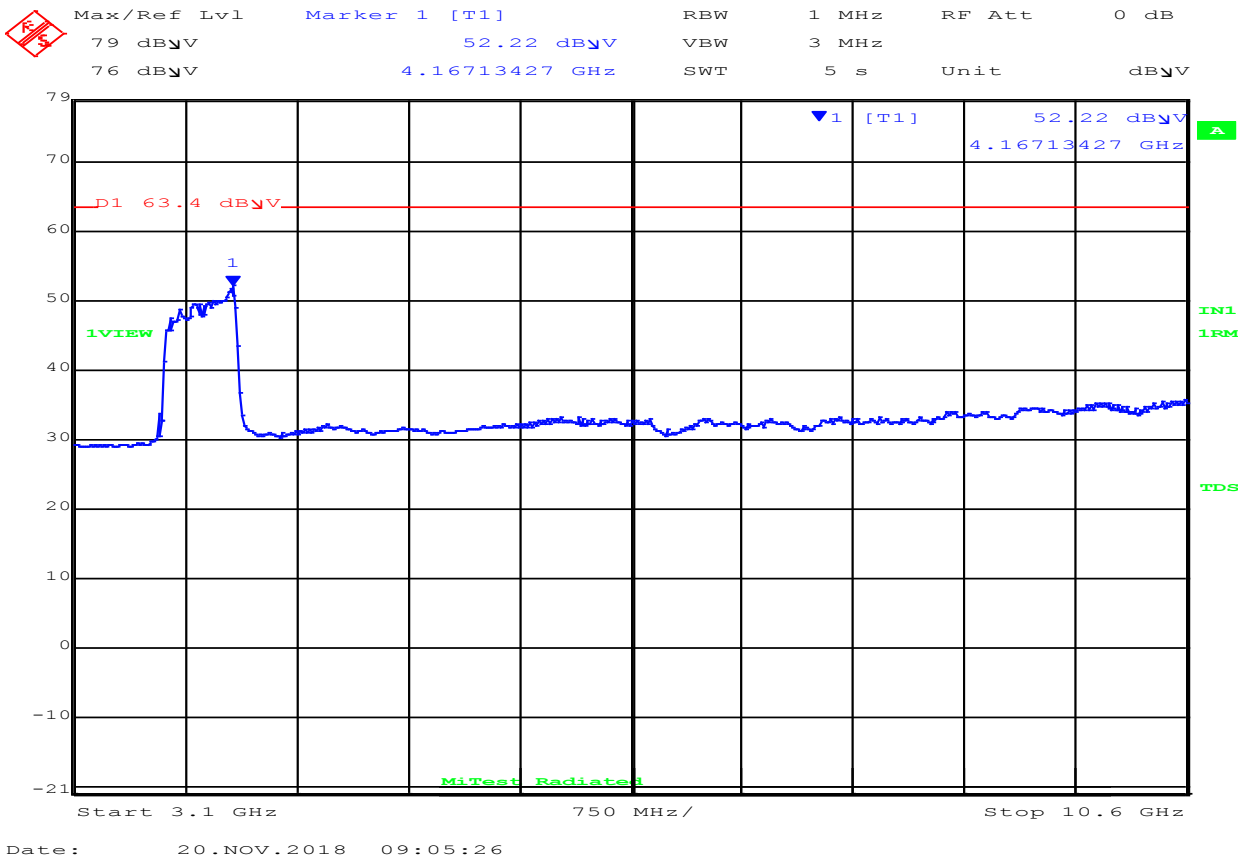
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

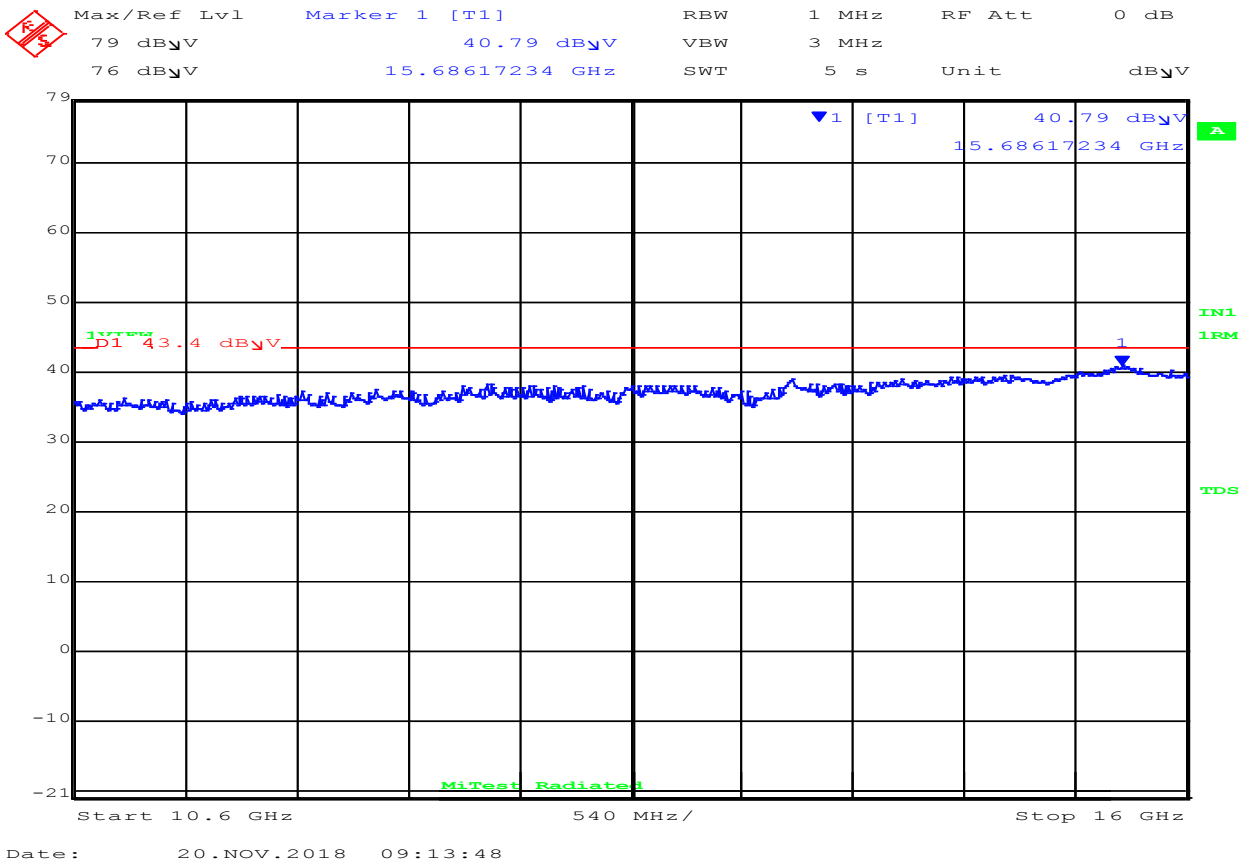
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.7	Average	Horizontal	150	0	43.4	-3.70	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

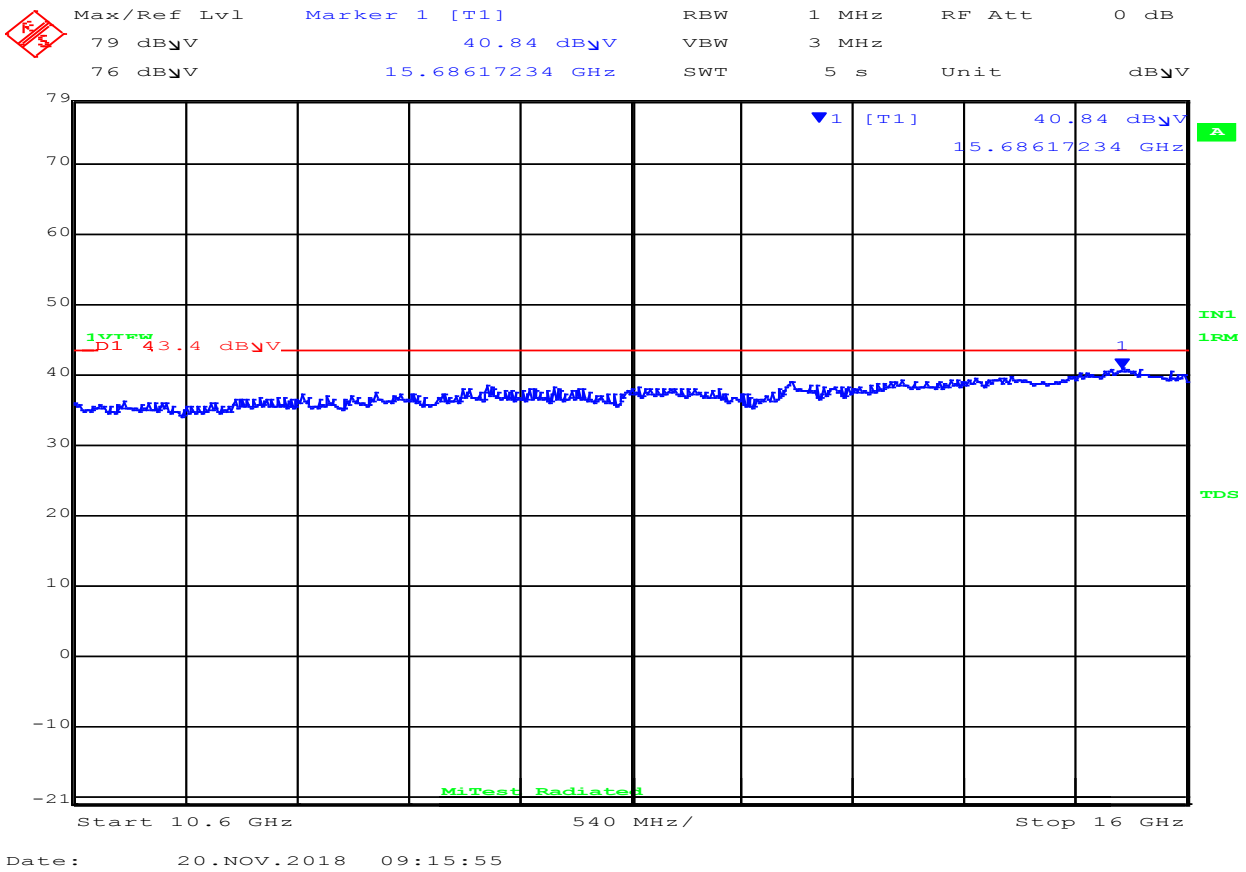
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.8	Average	Vertical	150	0	43.4	-3.60	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

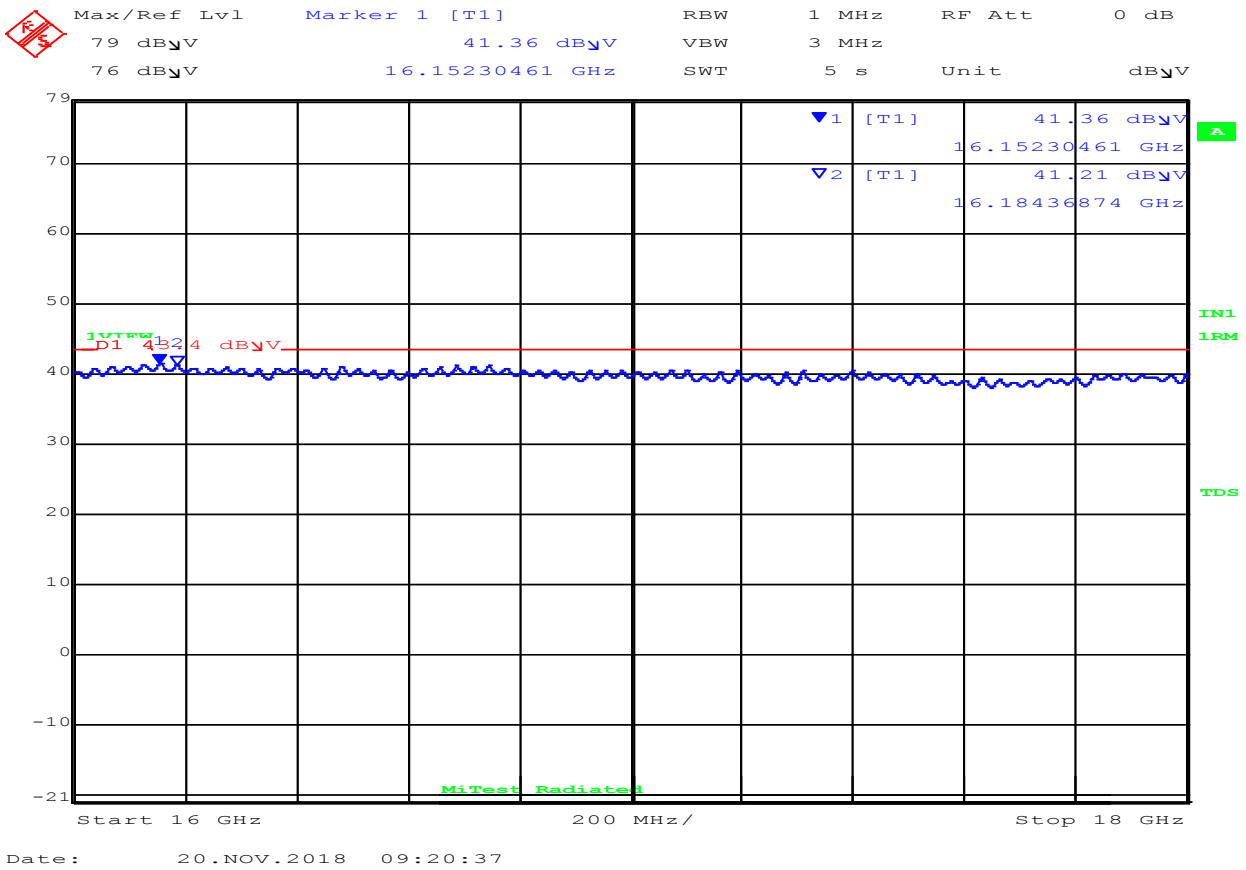
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.3	Average	Horizontal	150	0	43.4	-3.1	Pass
	16184.4	40.2	Average	Horizontal	150	0	43.4	-3.2	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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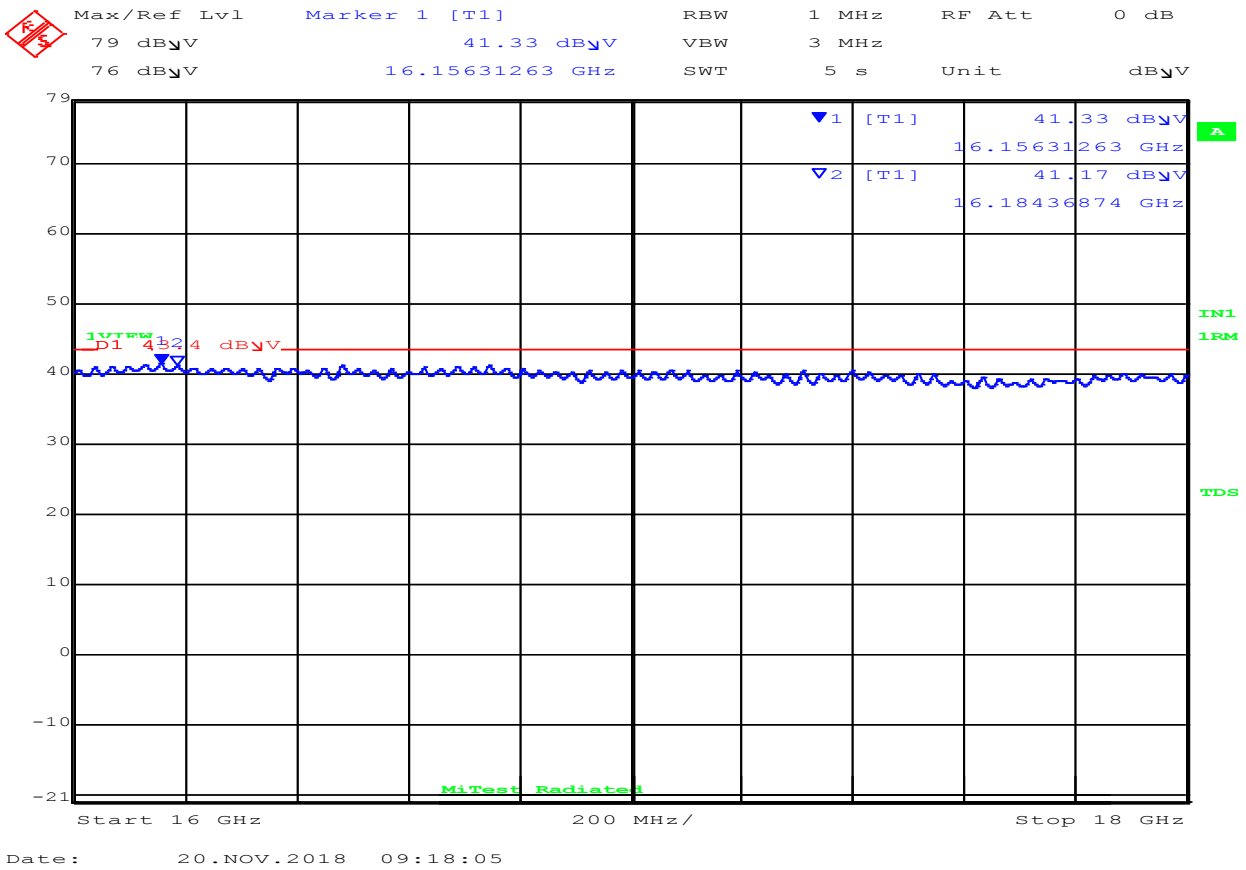
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16156.3	40.4	Average	Vertical	150	0	43.4	-3.00	Pass
2	16184.4	40.3	Average	Vertical	150	0	43.4	-3.10	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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4488 MHz

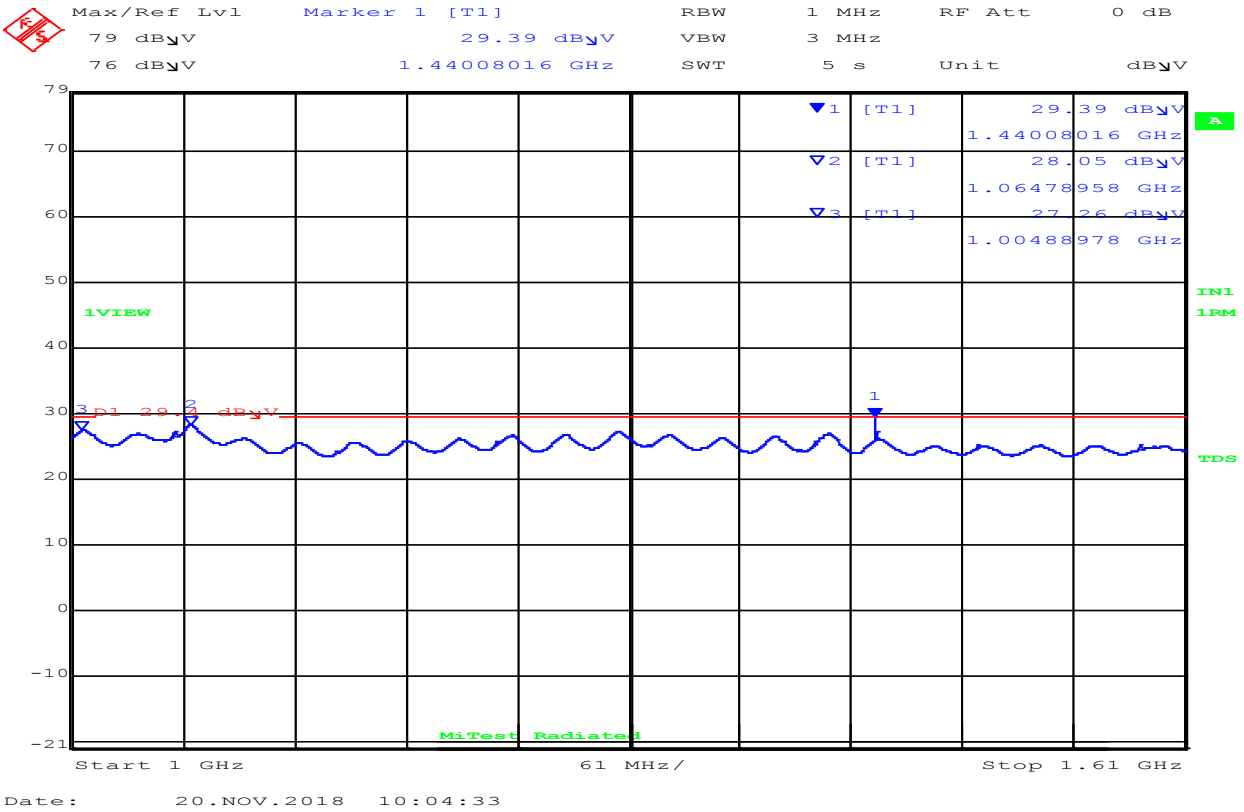
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1000.00– 1610.00MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	28.9	Average	Horizontal	150	0	29.4	-0.5	Pass
2	1064.8	26.1	Average	Horizontal	150	0	29.4	-3.3	Pass
3	1004.9	25.2	Average	Horizontal	150	0	29.4	-4.2	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

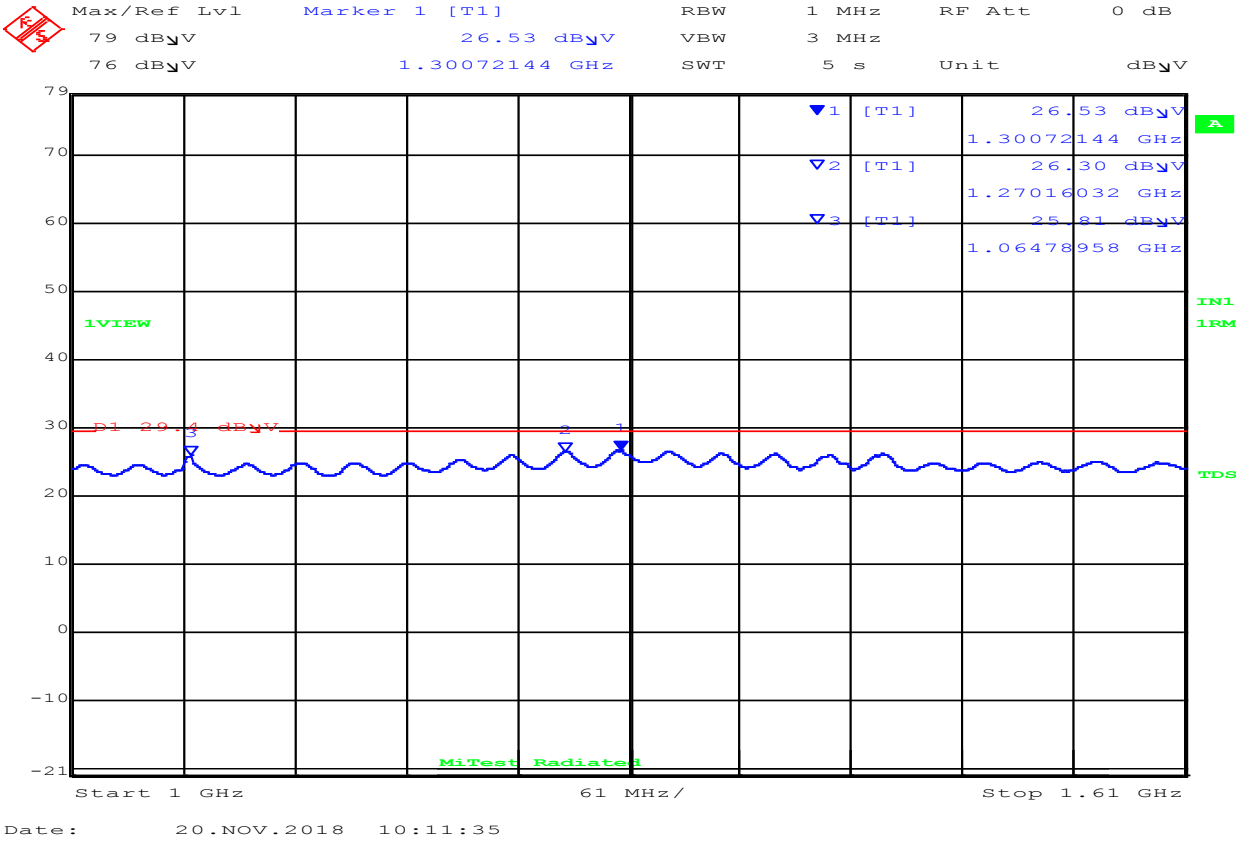
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 10:11:35

1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1300.7	24.1	Average	Vertical	150	0	29.4	-5.3	Pass
2	1270.2	24.1	Average	Vertical	150	0	29.4	-5.3	Pass
3	1064.8	23.8	Average	Vertical	150	0	29.4	-5.6	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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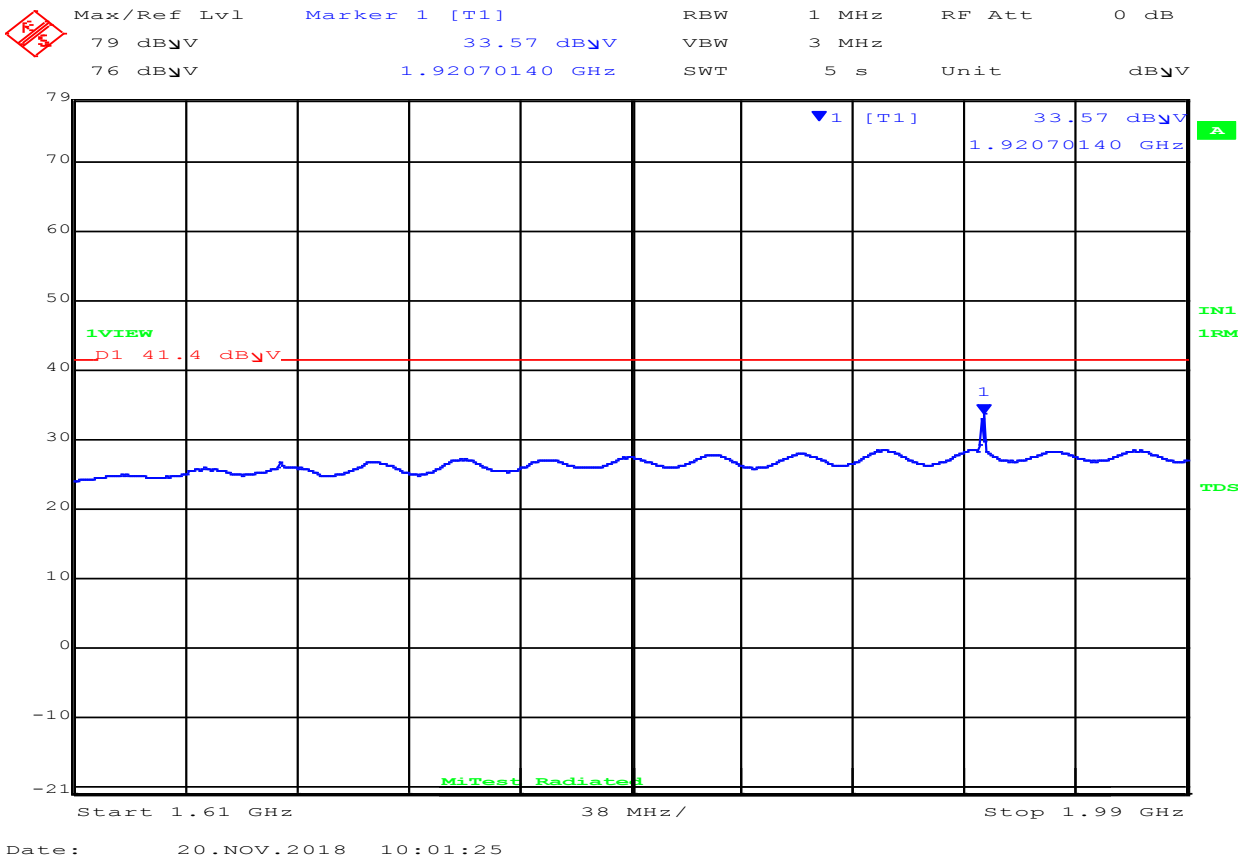
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

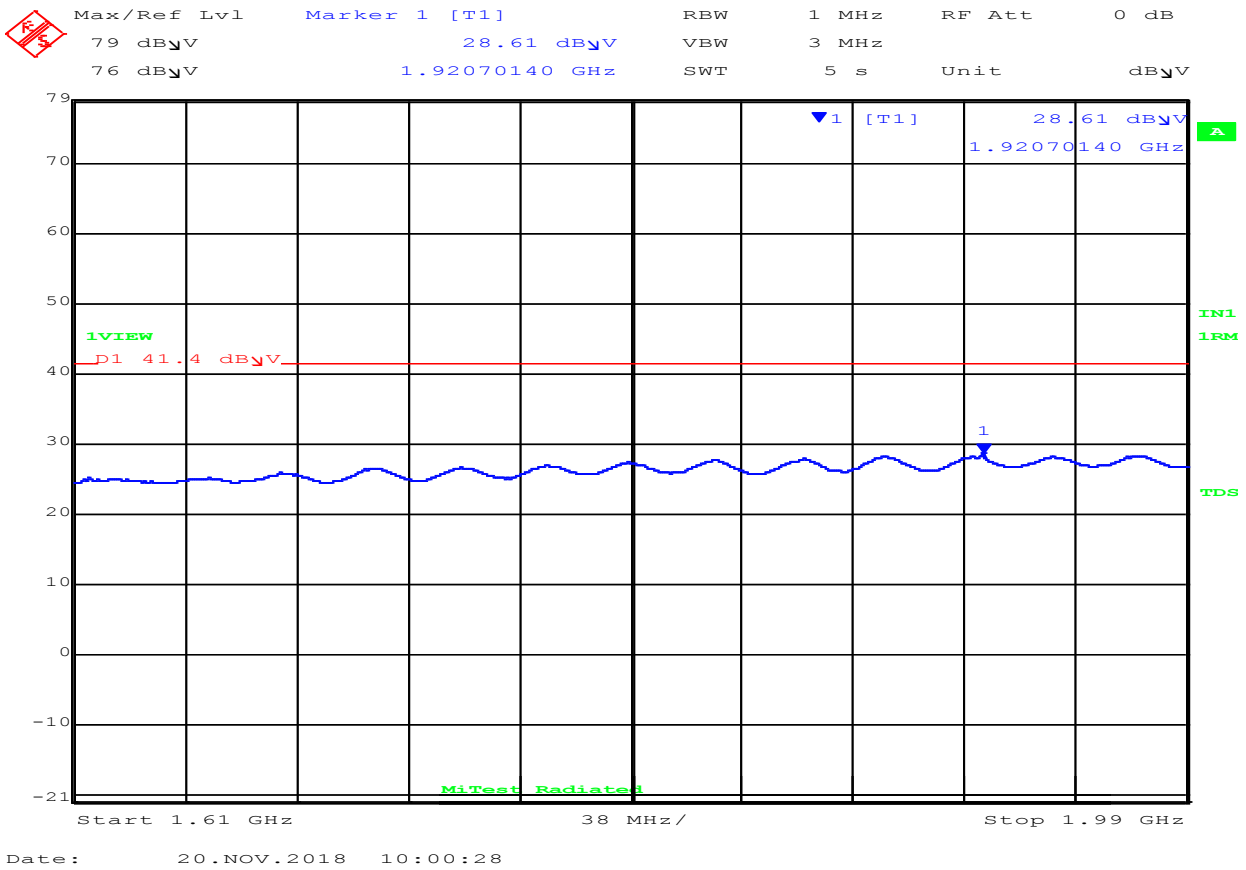
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

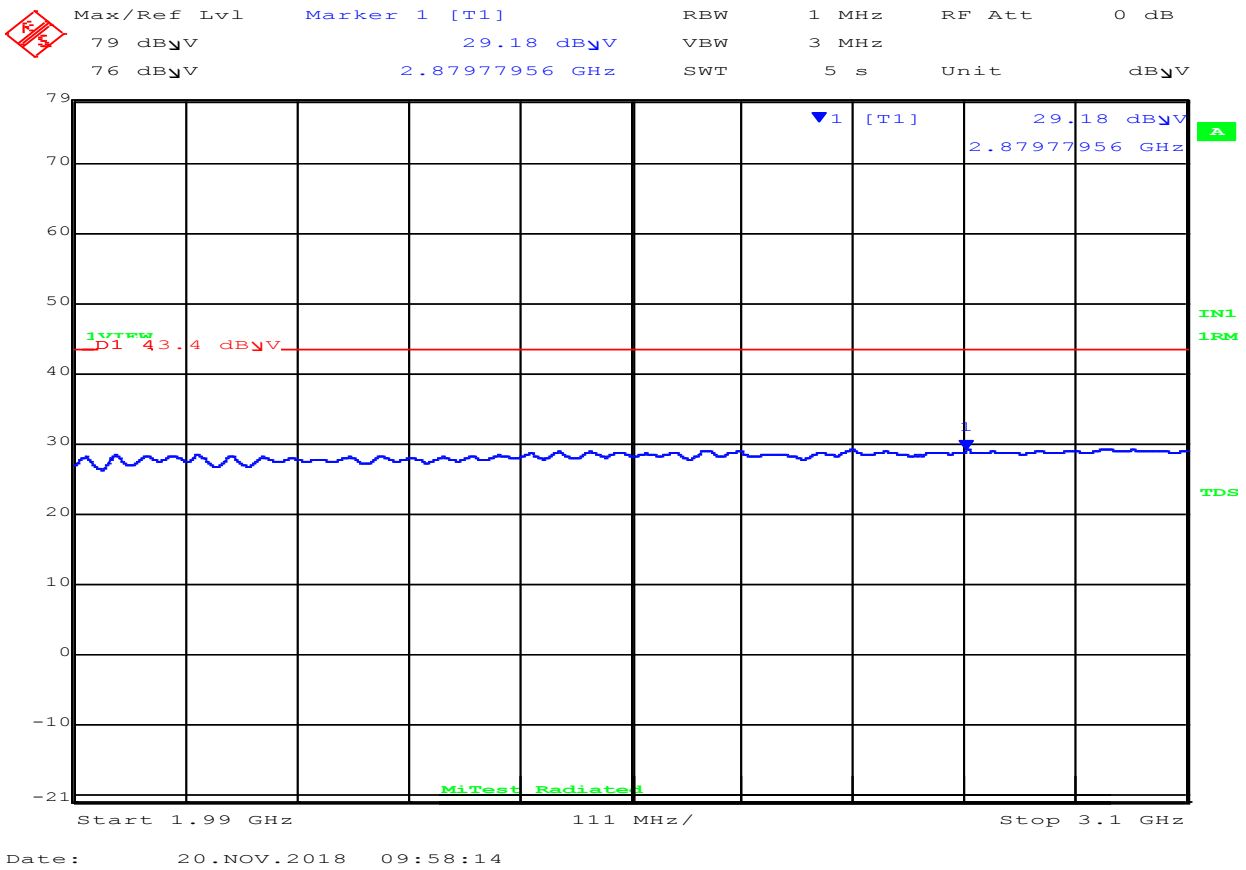
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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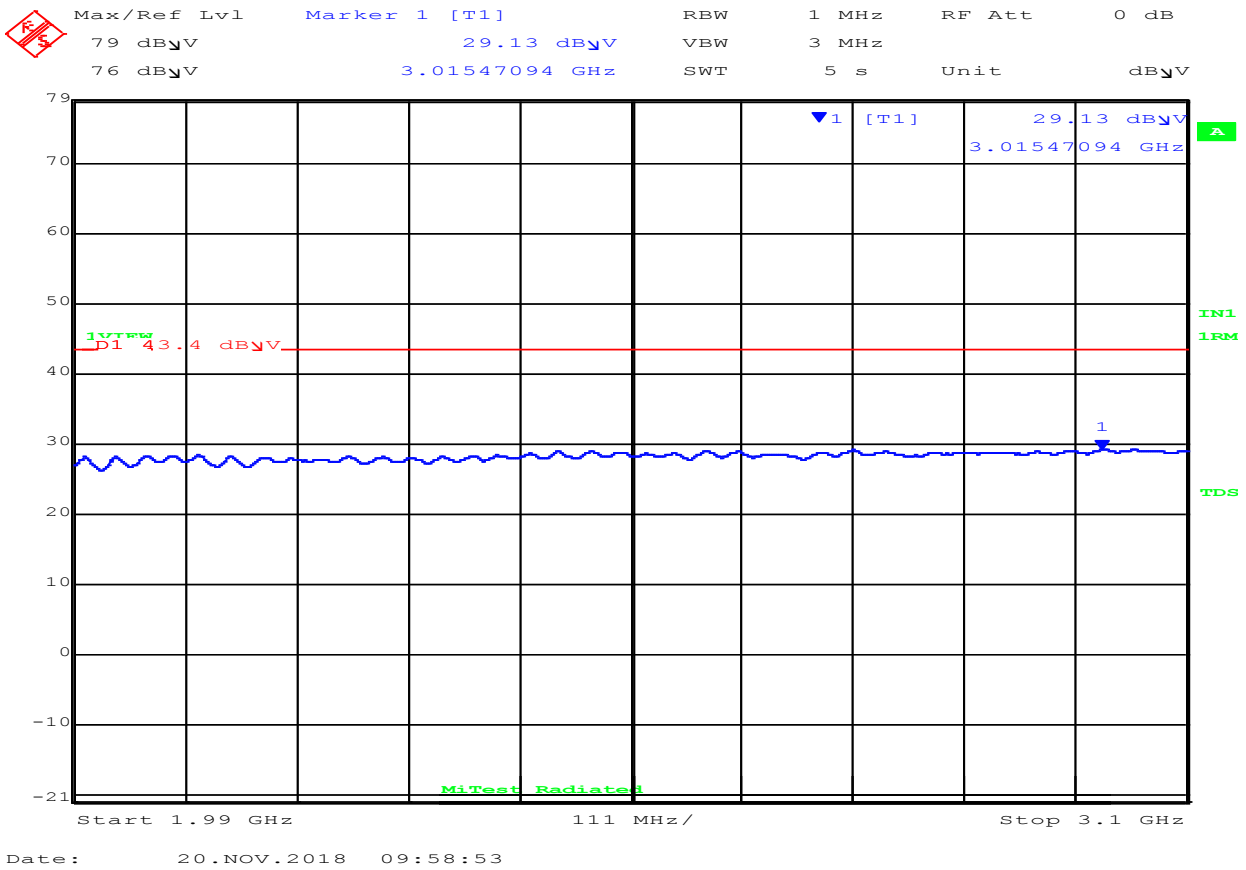
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

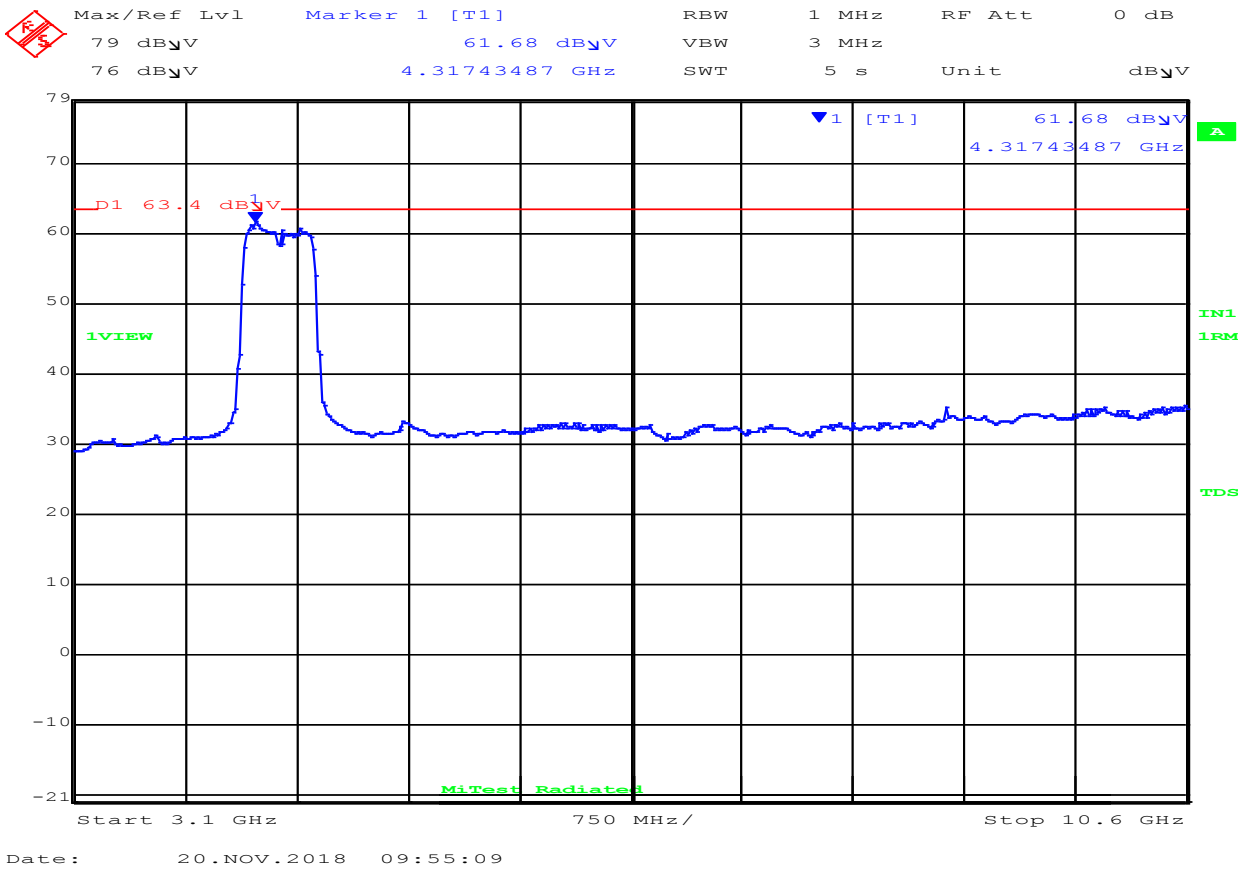
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	4317.4	59.4	Average	Horizontal	150	0	63.4	-4.0	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

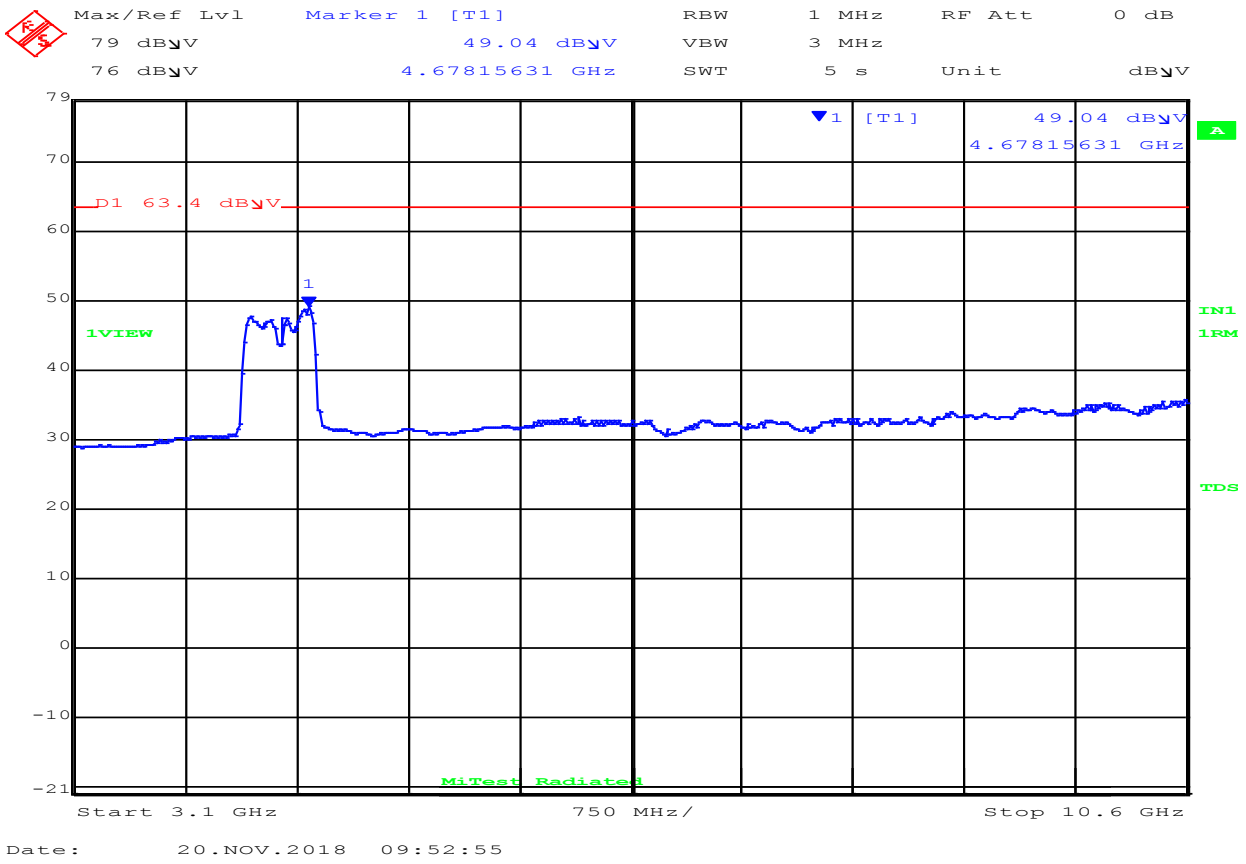
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

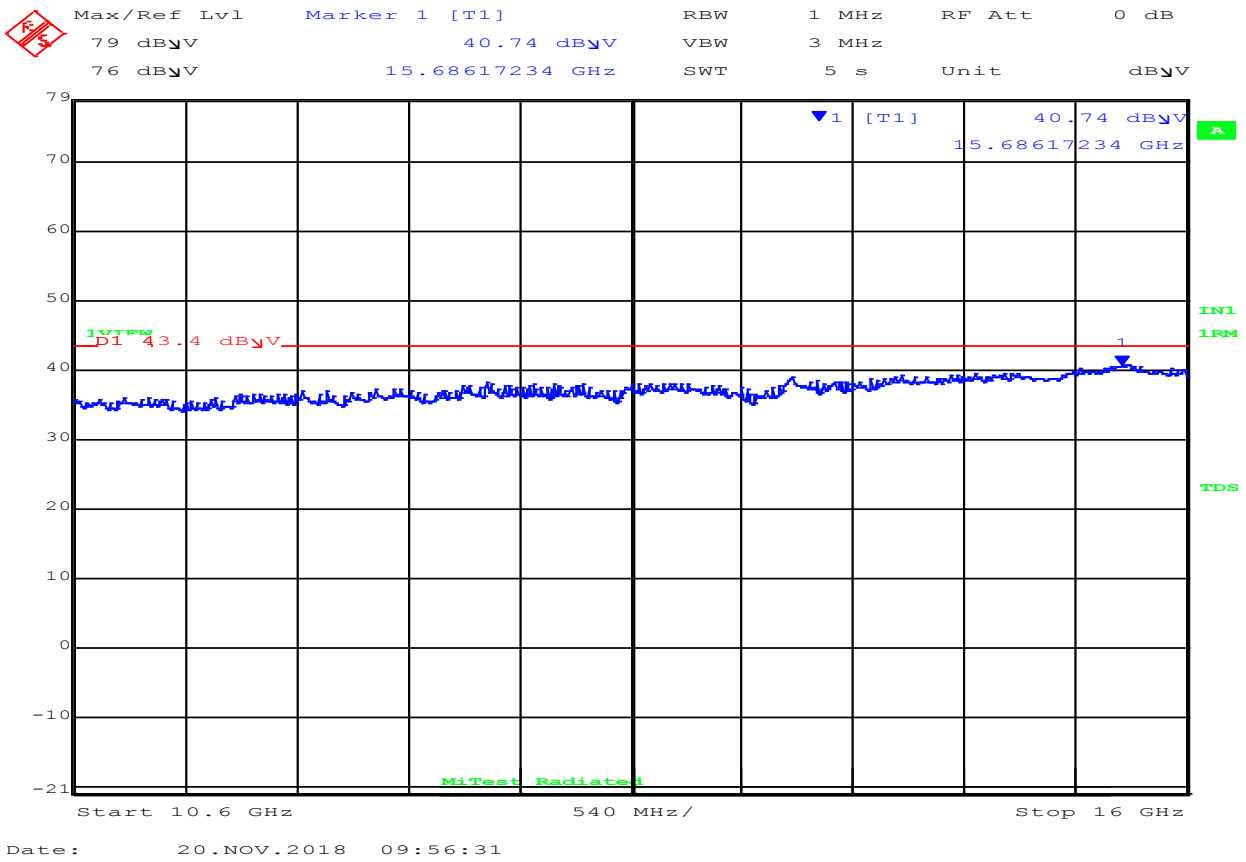
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.6	Average	Horizontal	150	0	43.4	-3.8	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

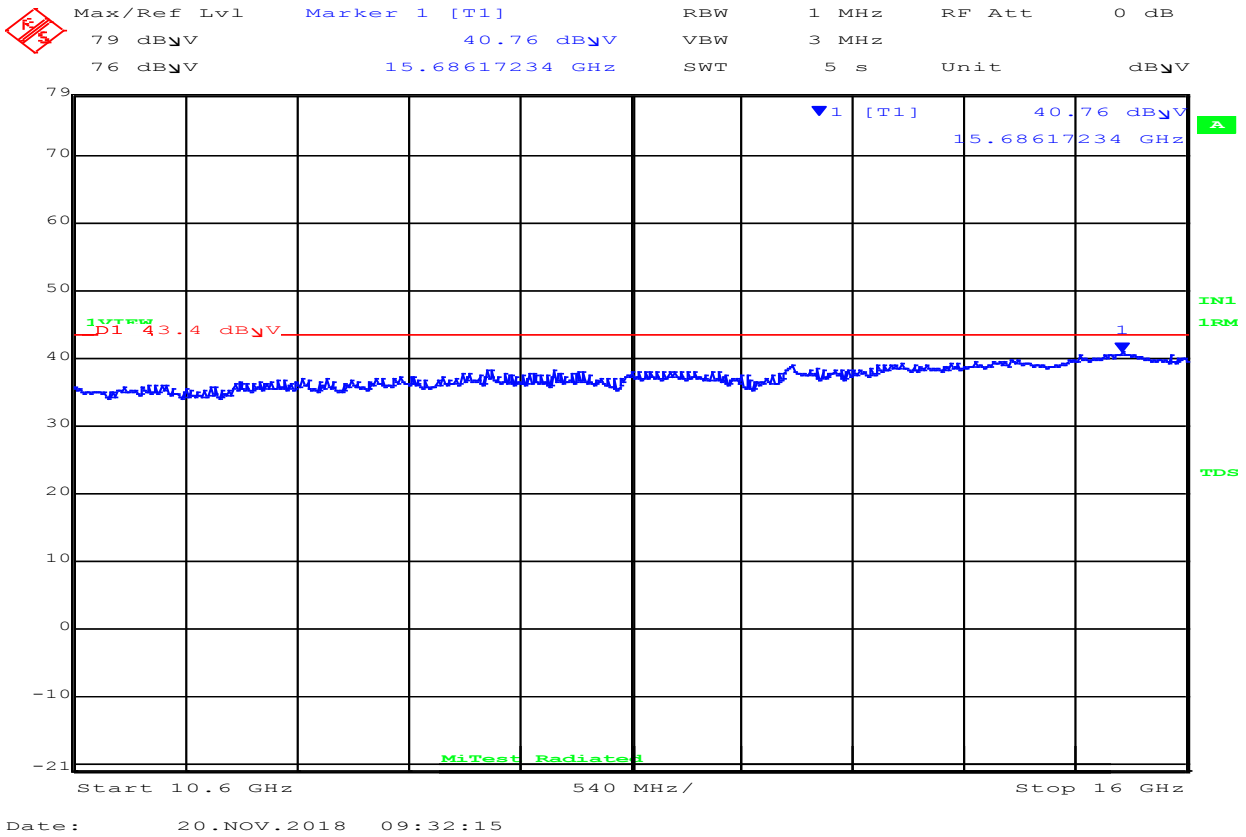
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.5	Average	Vertical	150	0	43.4	-3.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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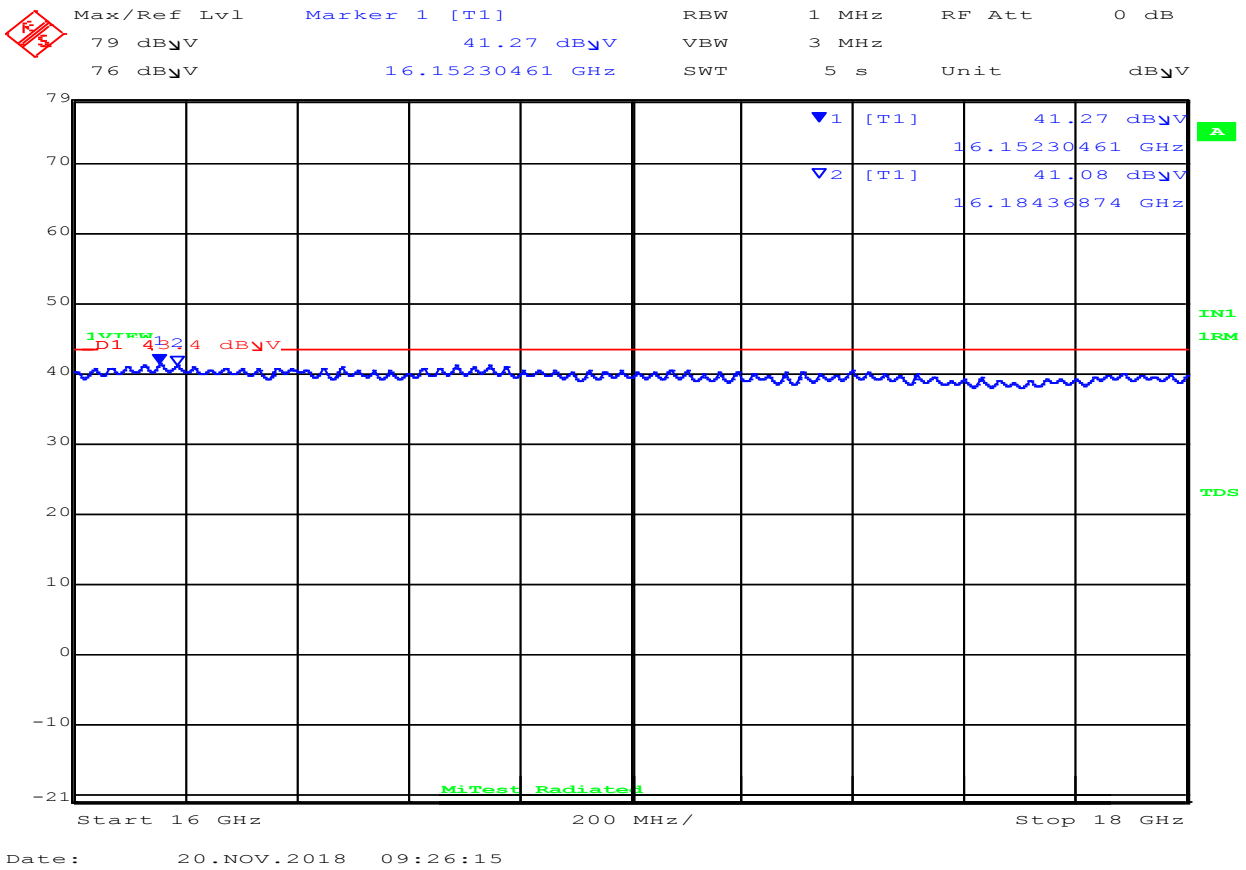
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.2	Average	Horizontal	150	0	43.4	-3.2	Pass
2	16184.4	40.2	Average	Horizontal	150	0	43.4	-3.2	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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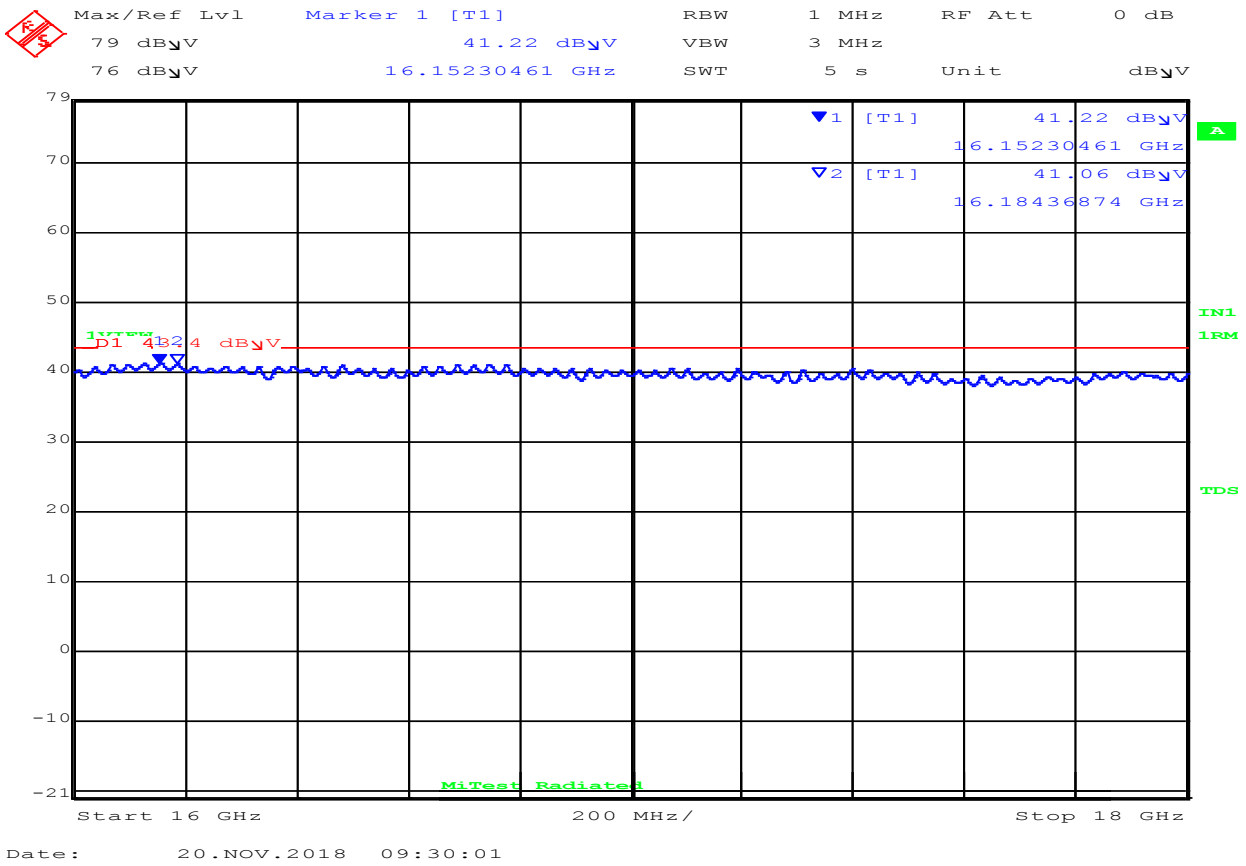
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.2	Average	Vertical	150	0	43.4	-3.2	Pass
2	16184.4	40.1	Average	Vertical	150	0	43.4	-3.3	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

6600 MHz

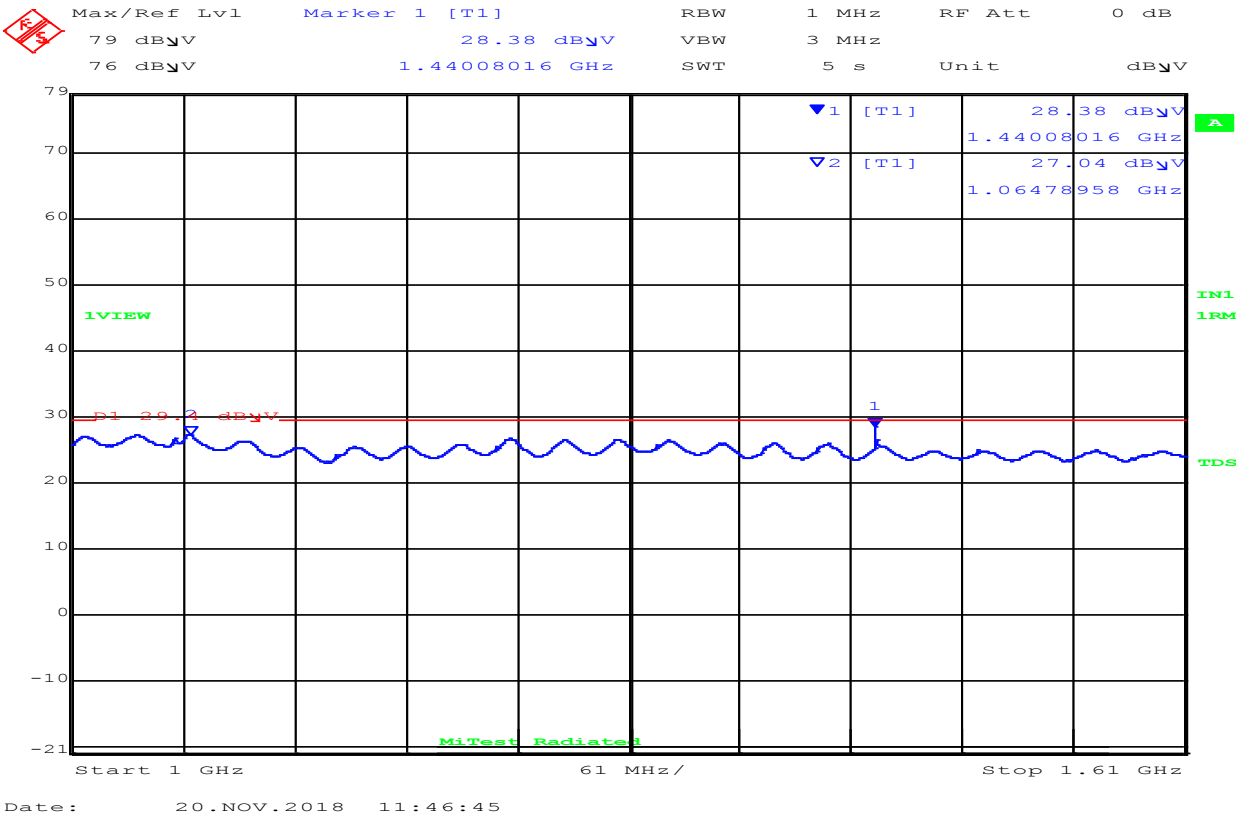
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	28.9	Average	Horizontal	150	0	29.4	-0.5	Pass
2	1064.8	25.9	Average	Horizontal	150	0	29.4	-3.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

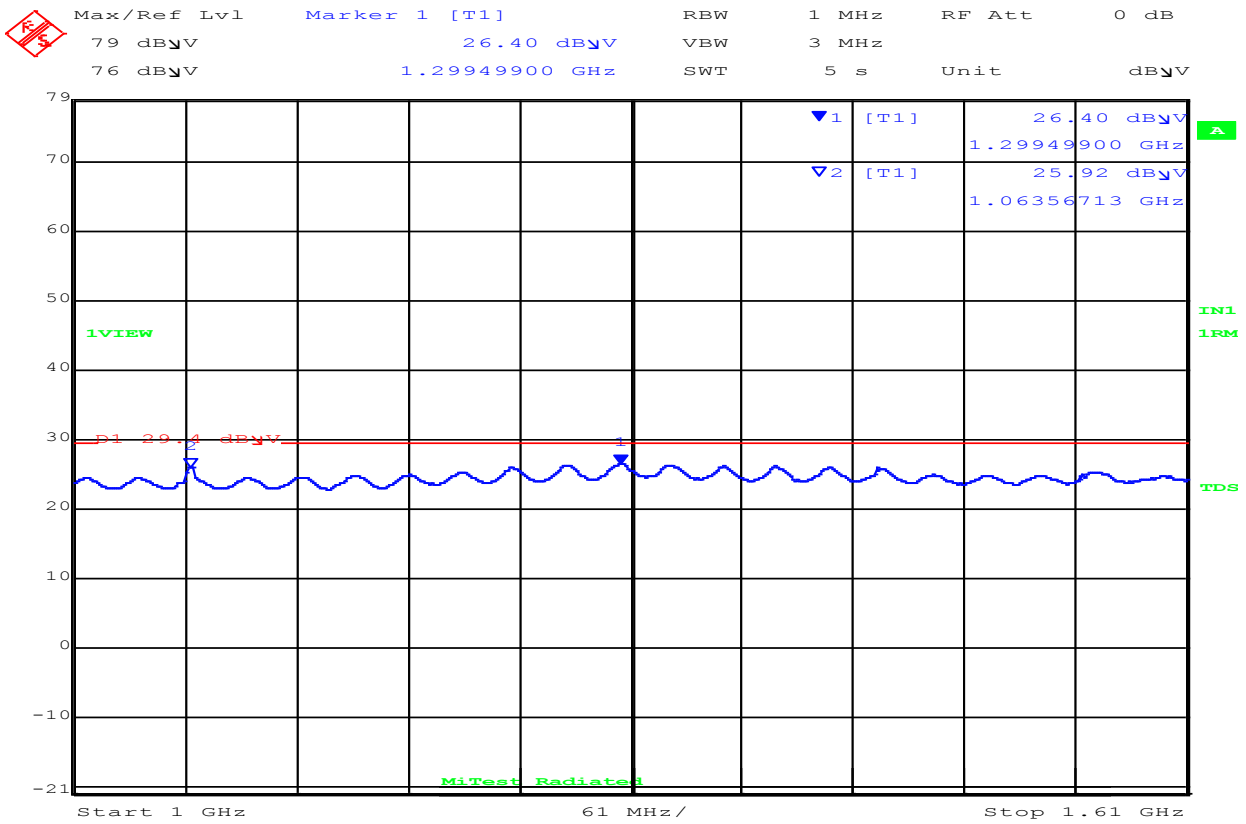
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1299.9	24.1	Average	Vertical	150	0	29.4	-5.30	Pass
2	1063.6	23.9	Average	Vertical	150	0	29.4	-5.50	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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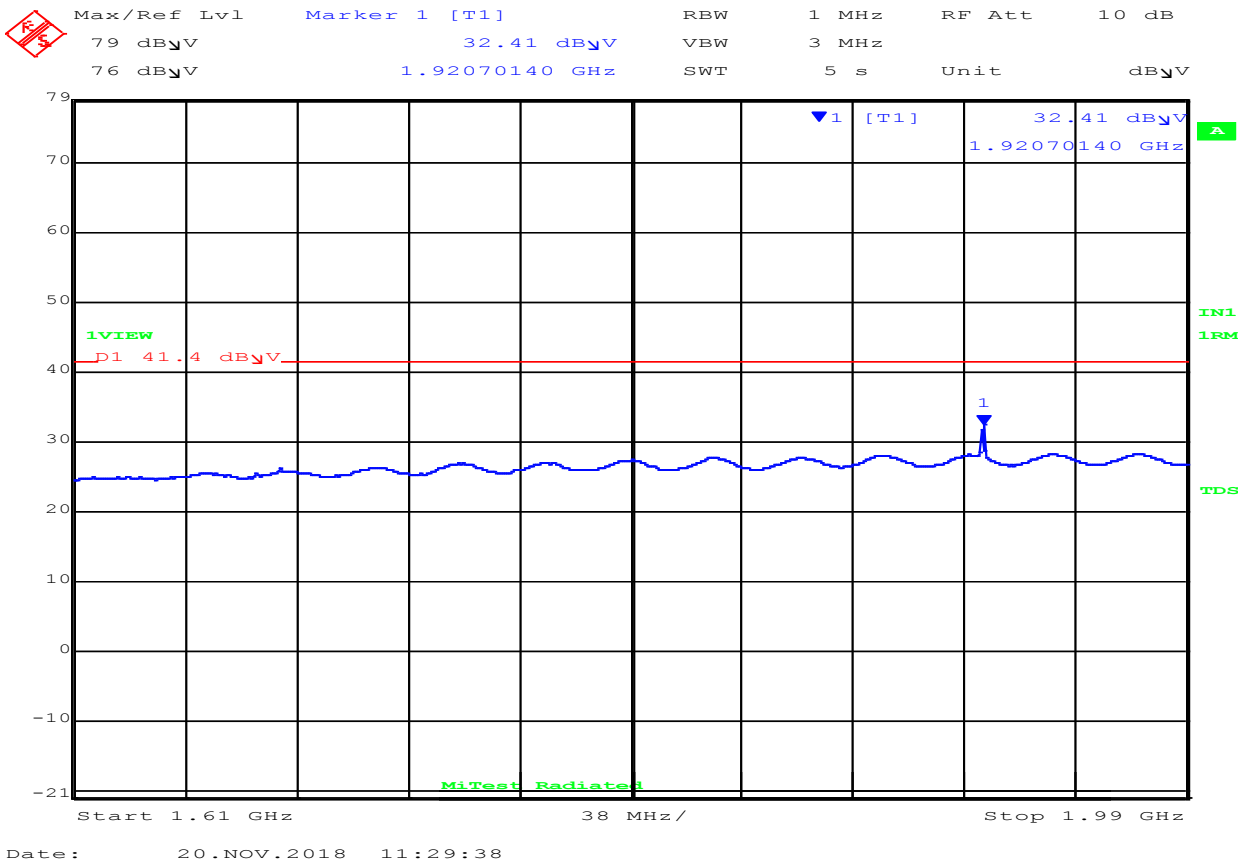
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit.									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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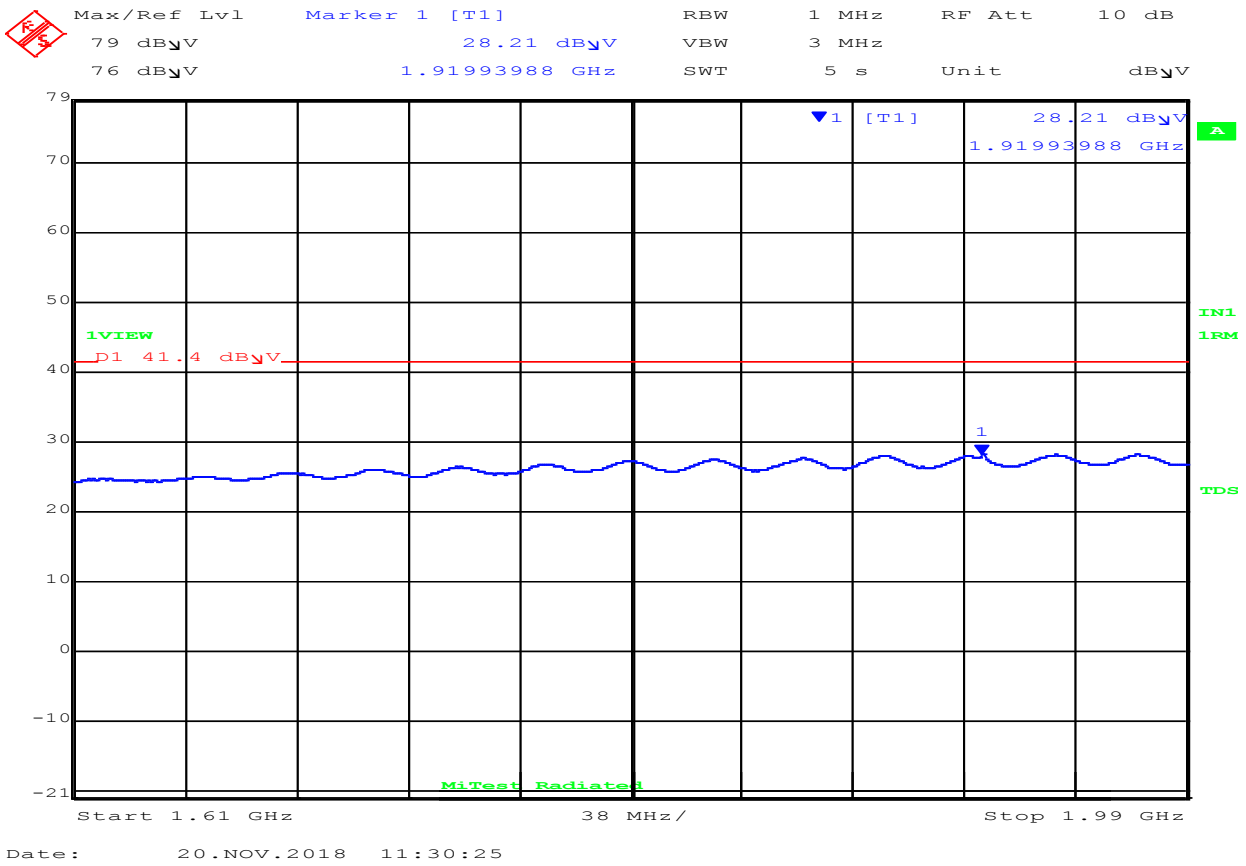
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit.									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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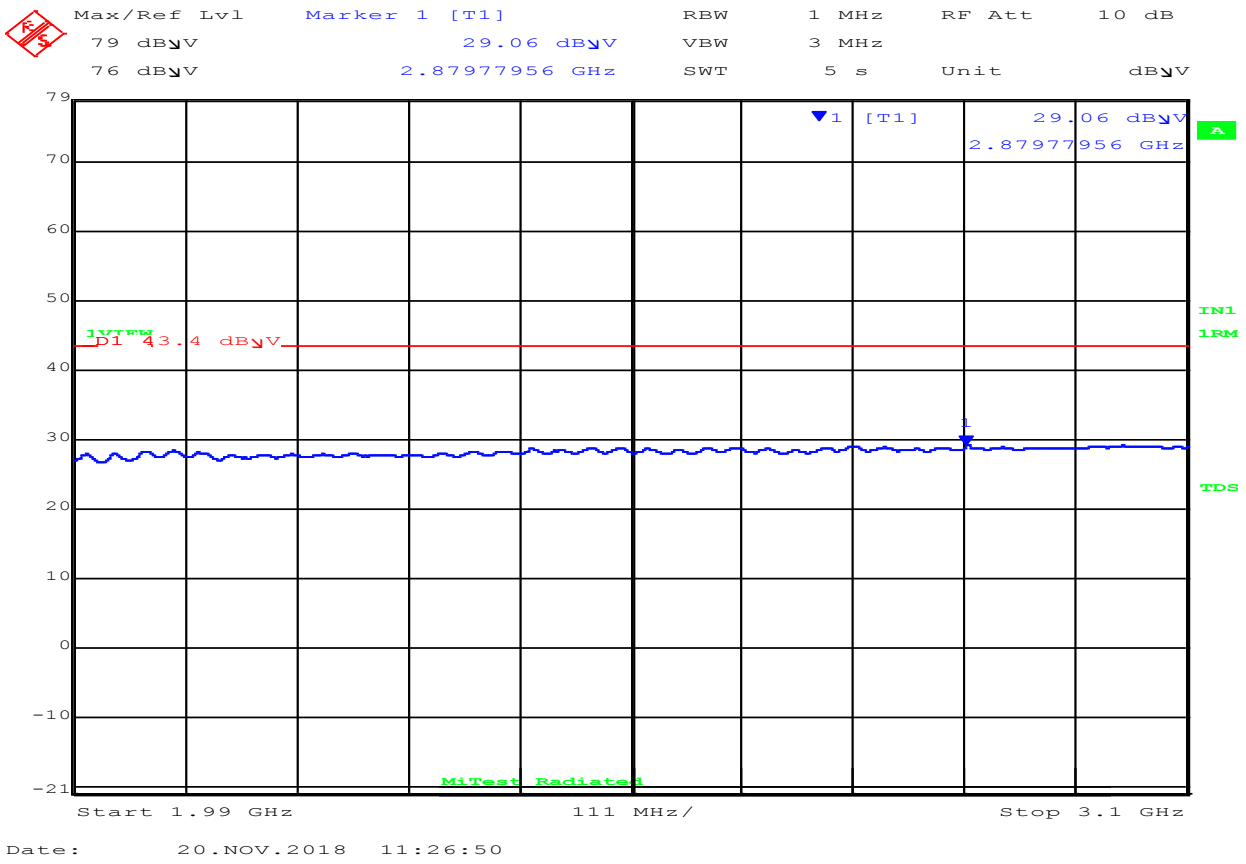
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit.									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

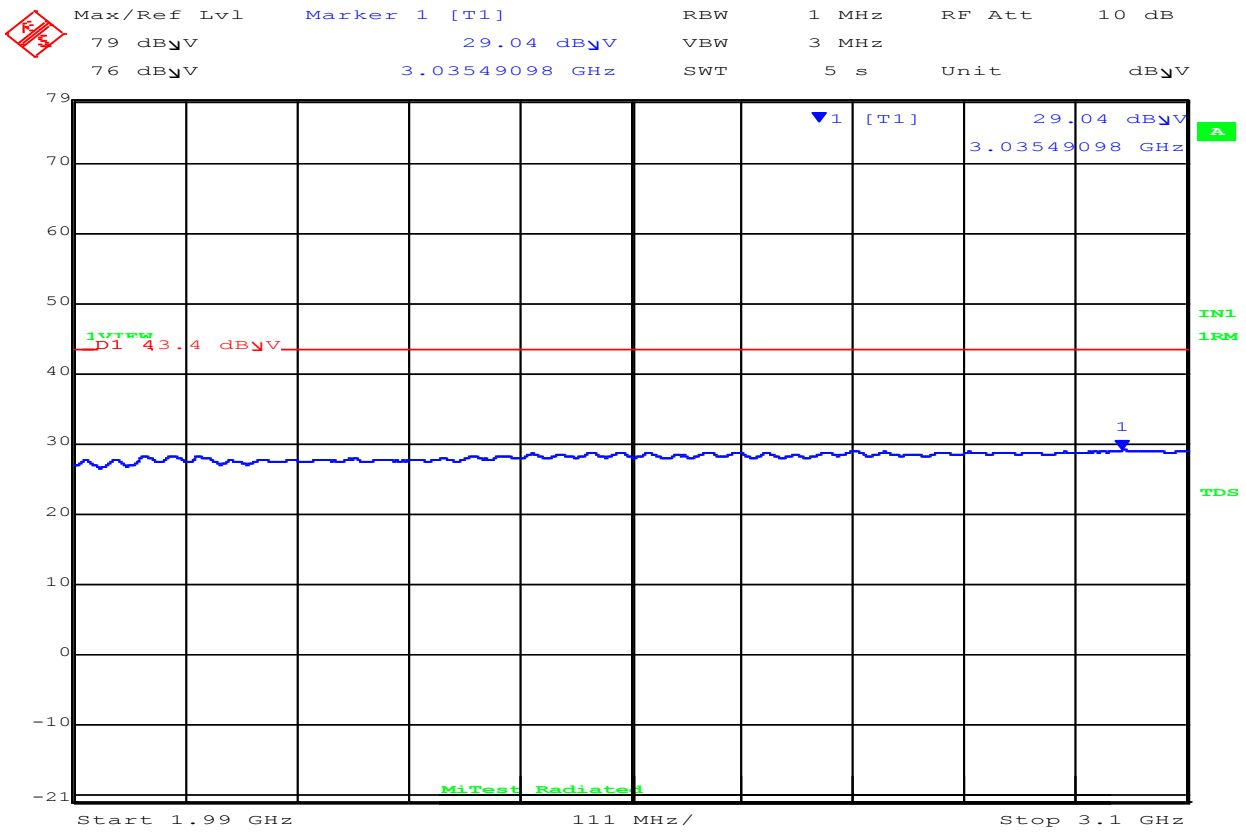
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 20.NOV.2018 11:25:58

1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit.									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

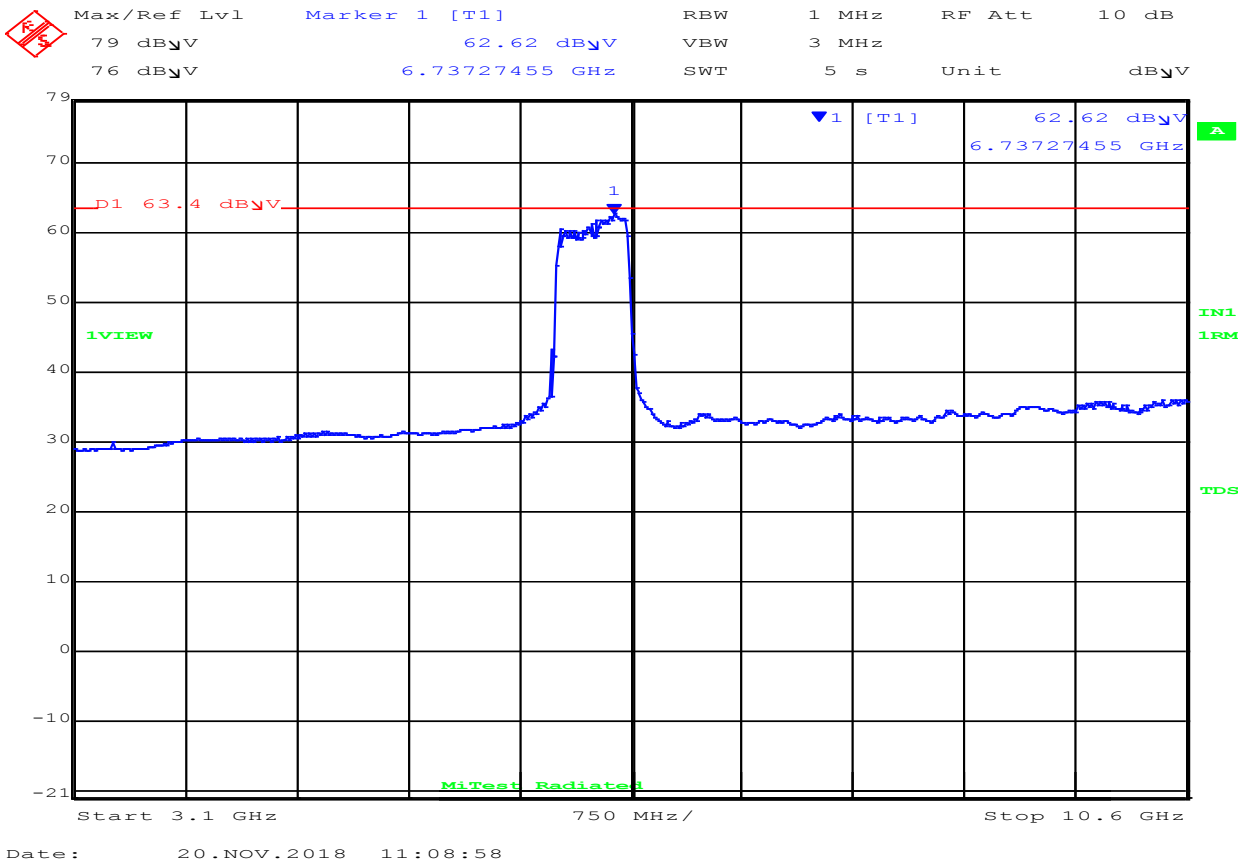
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	6737.3	60.5	Average	Horizontal	150	0	63.4	-2.9	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

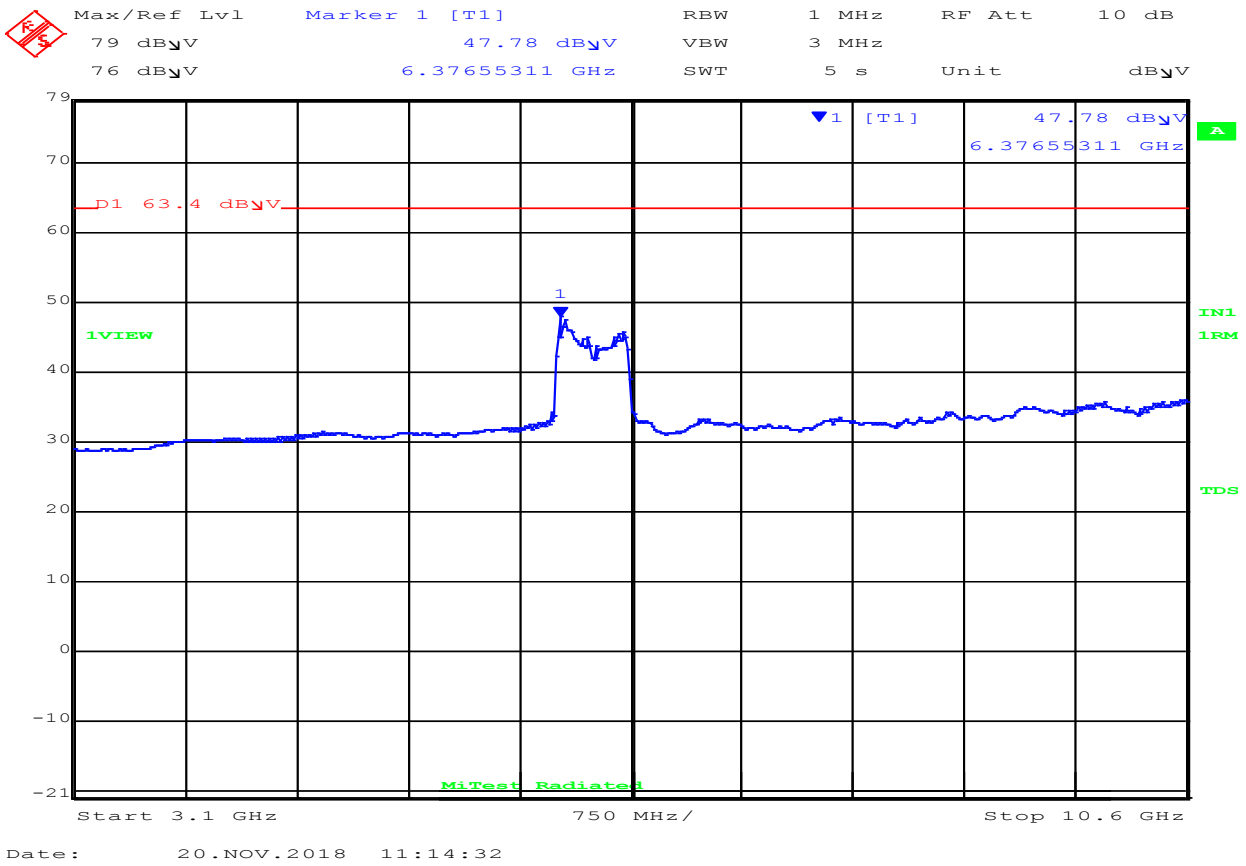
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit.									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

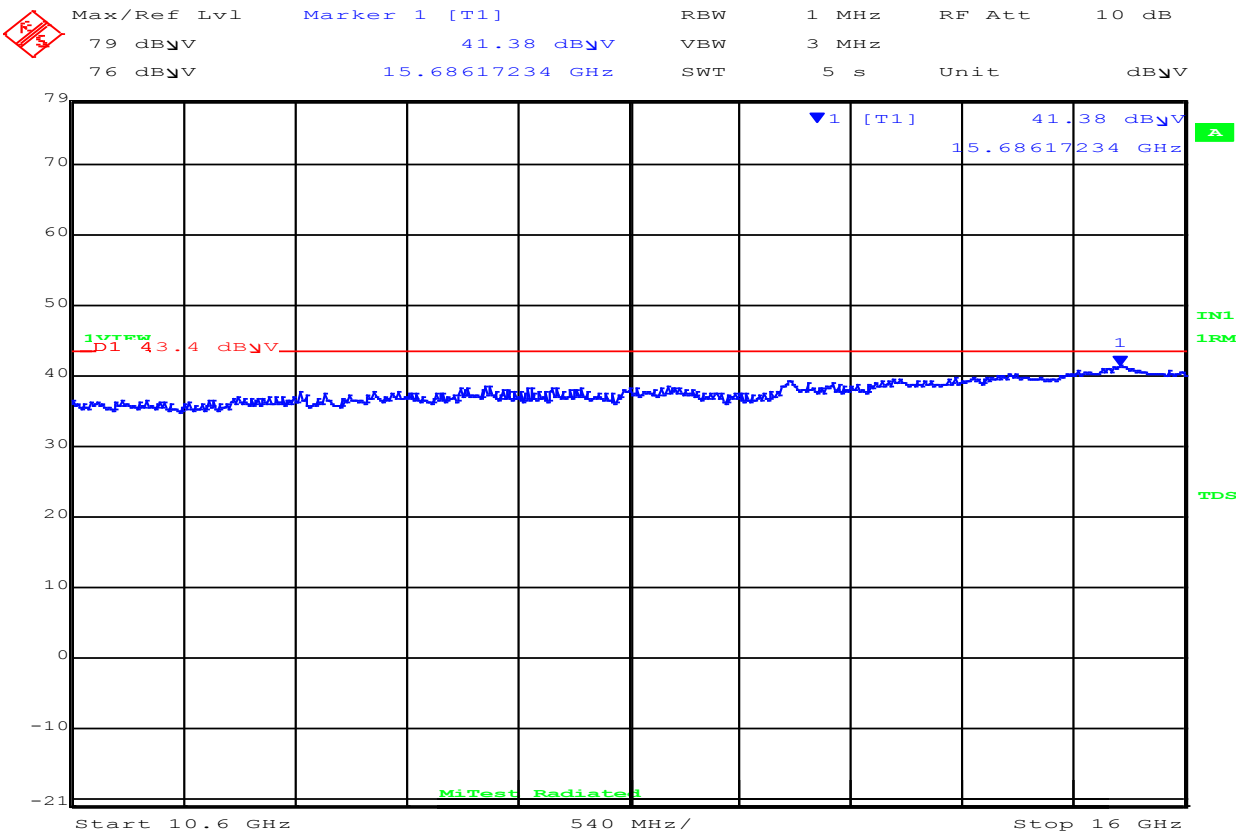
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	40.1	Average	Horizontal	150	0	43.4	-3.3	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

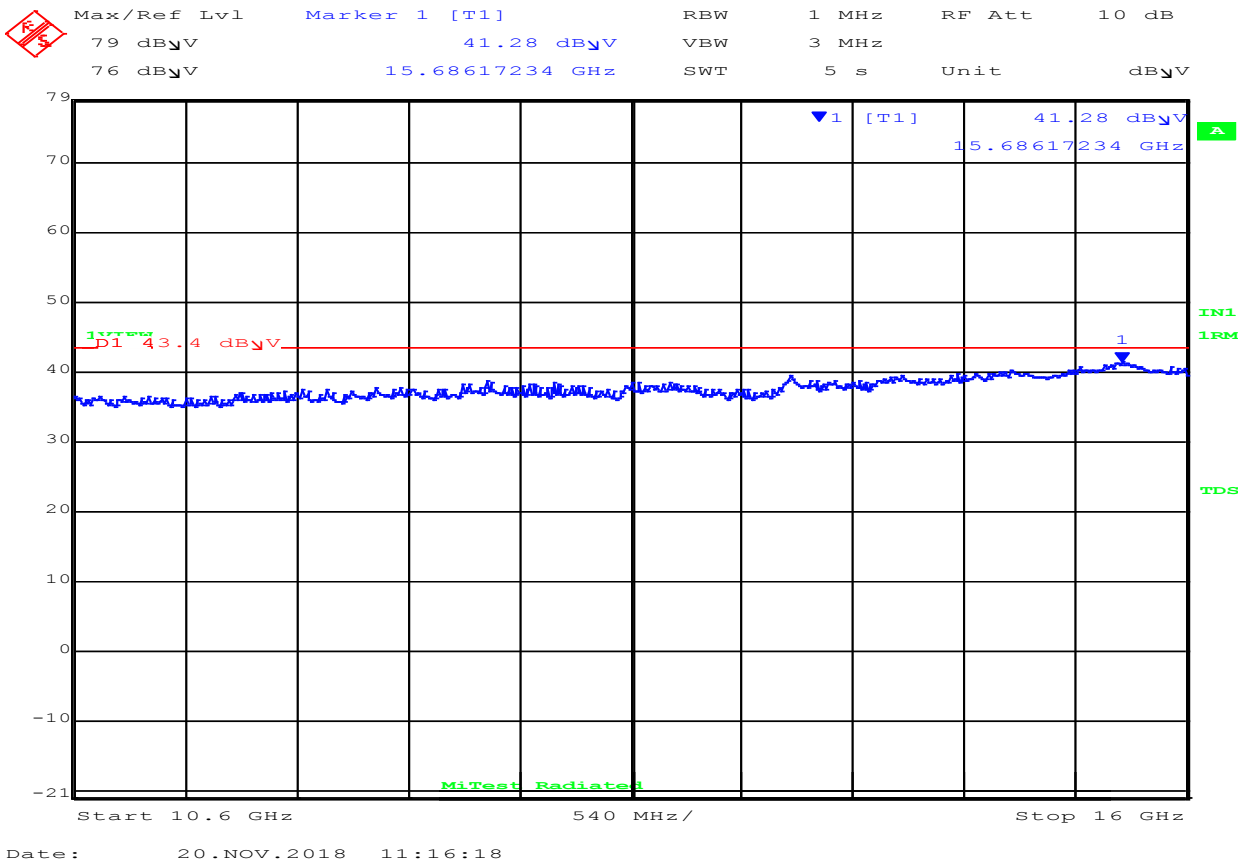
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	40.2	Average	Vertical	150	0	43.4	-3.2	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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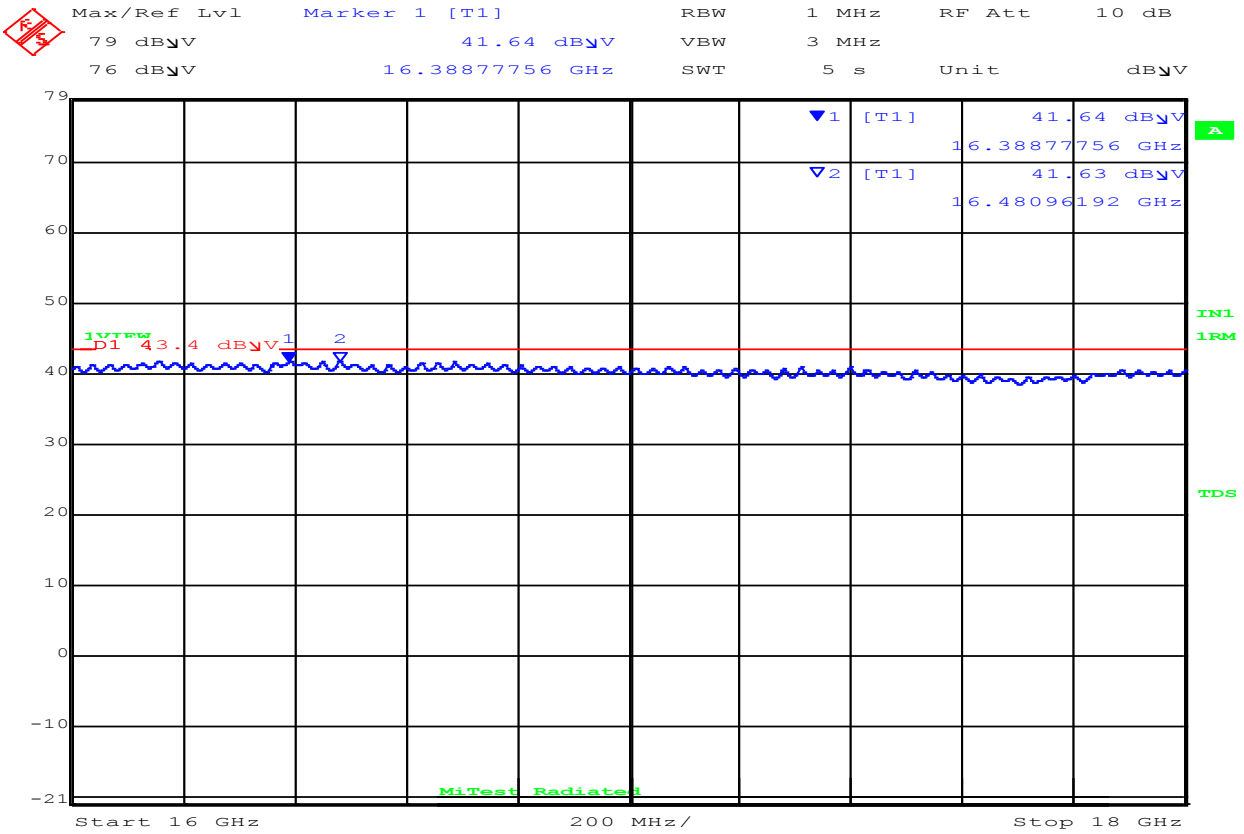
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16388.8	40.6	Average	Horizontal	150	0	43.4	-2.80	Pass
2	16481.0	40.5	Average	Horizontal	150	0	43.4	-2.90	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

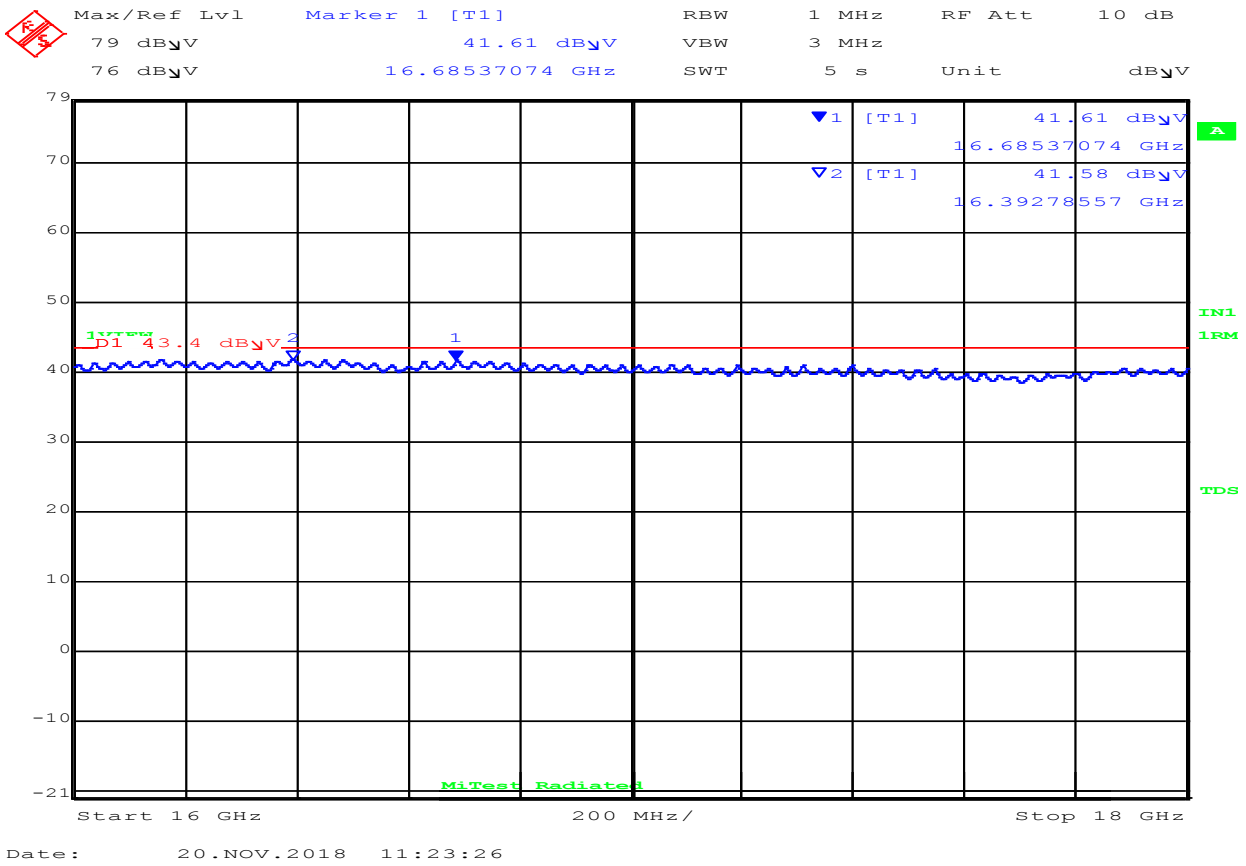
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting:2.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16685.4	40.1	Average	Vertical	150	0	43.4	-3.3	Pass
2	16392.8	40.6	Average	Vertical	150	0	43.4	-2.8	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

7128 MHz

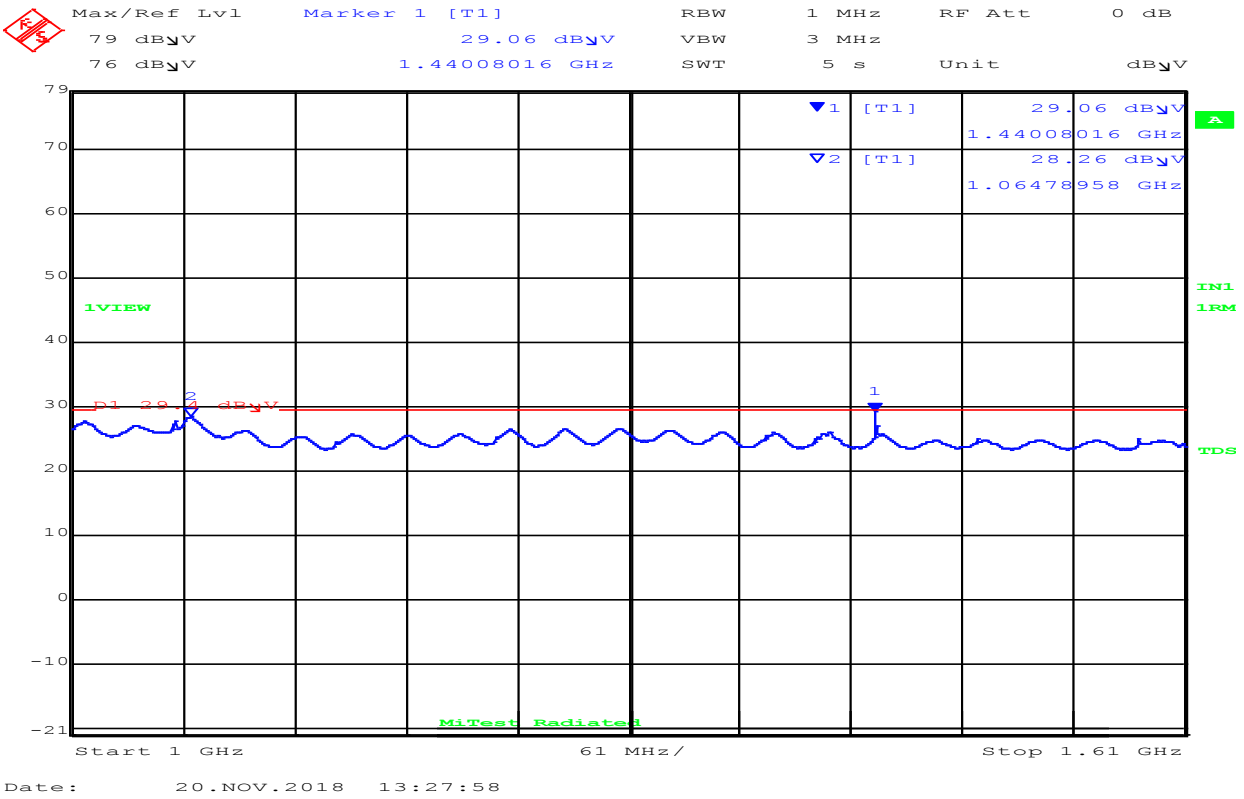
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	28.8	Average	Horizontal	150	0	29.4	-0.6	Pass
2	1064.8	25.9	Average	Horizontal	150	0	29.4	-3.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

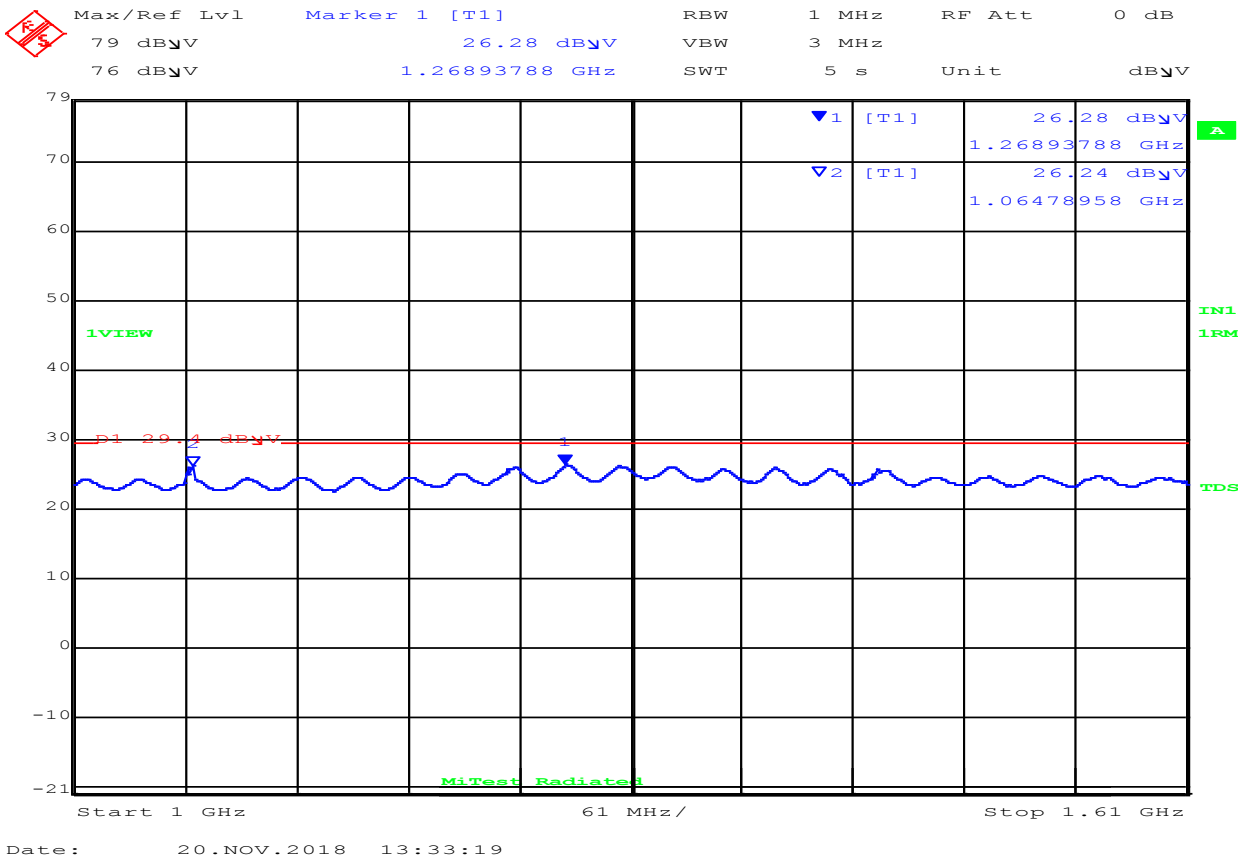
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1268.9	23.9	Average	Vertical	150	0	29.4	-5.5	Pass
2	1064.8	23.9	Average	Vertical	150	0	29.4	-5.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

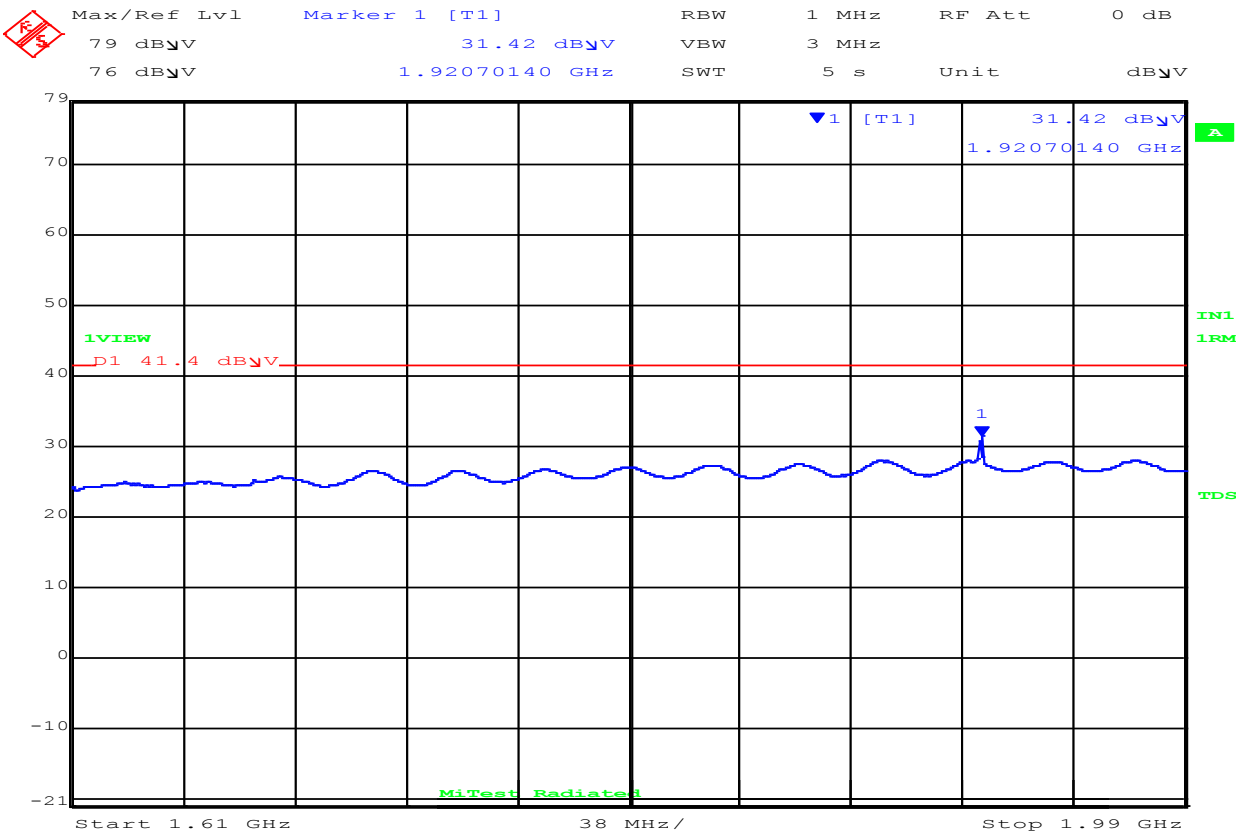
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

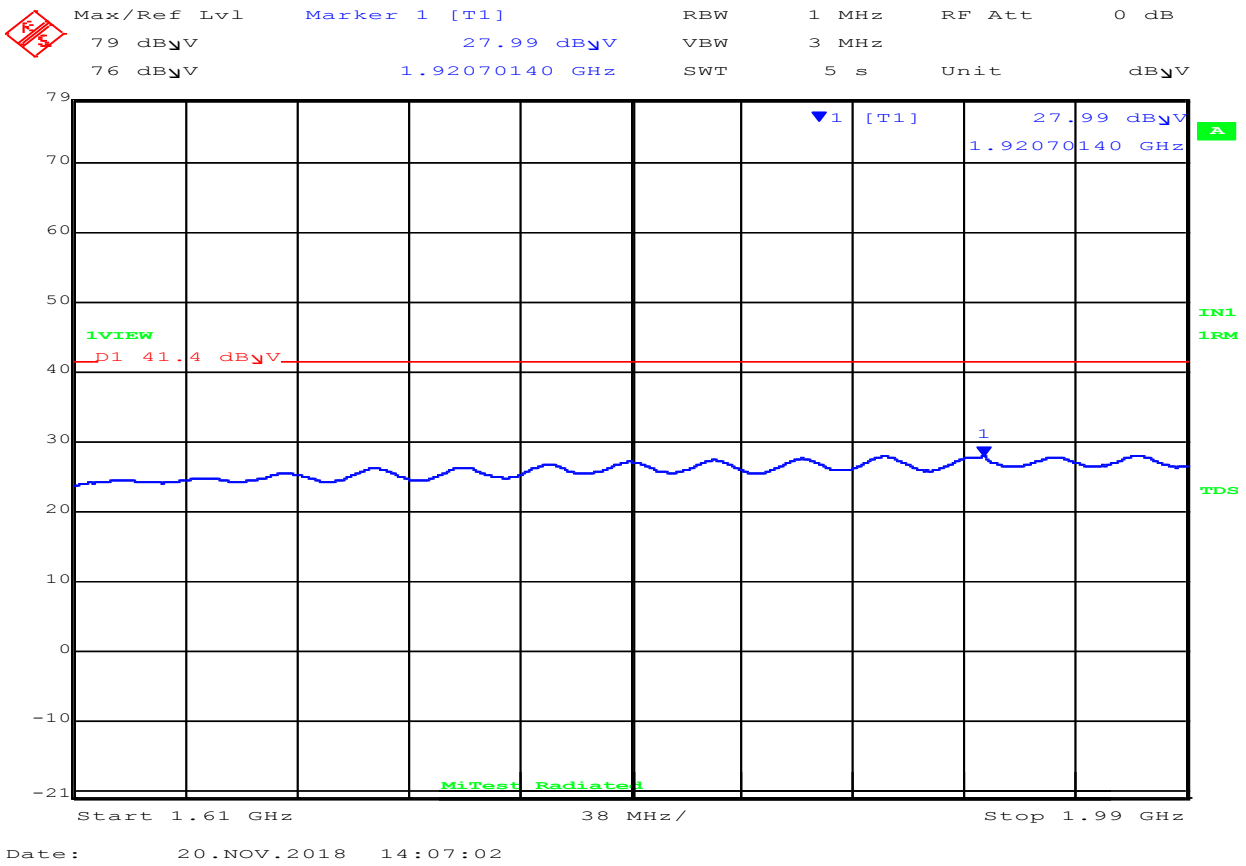
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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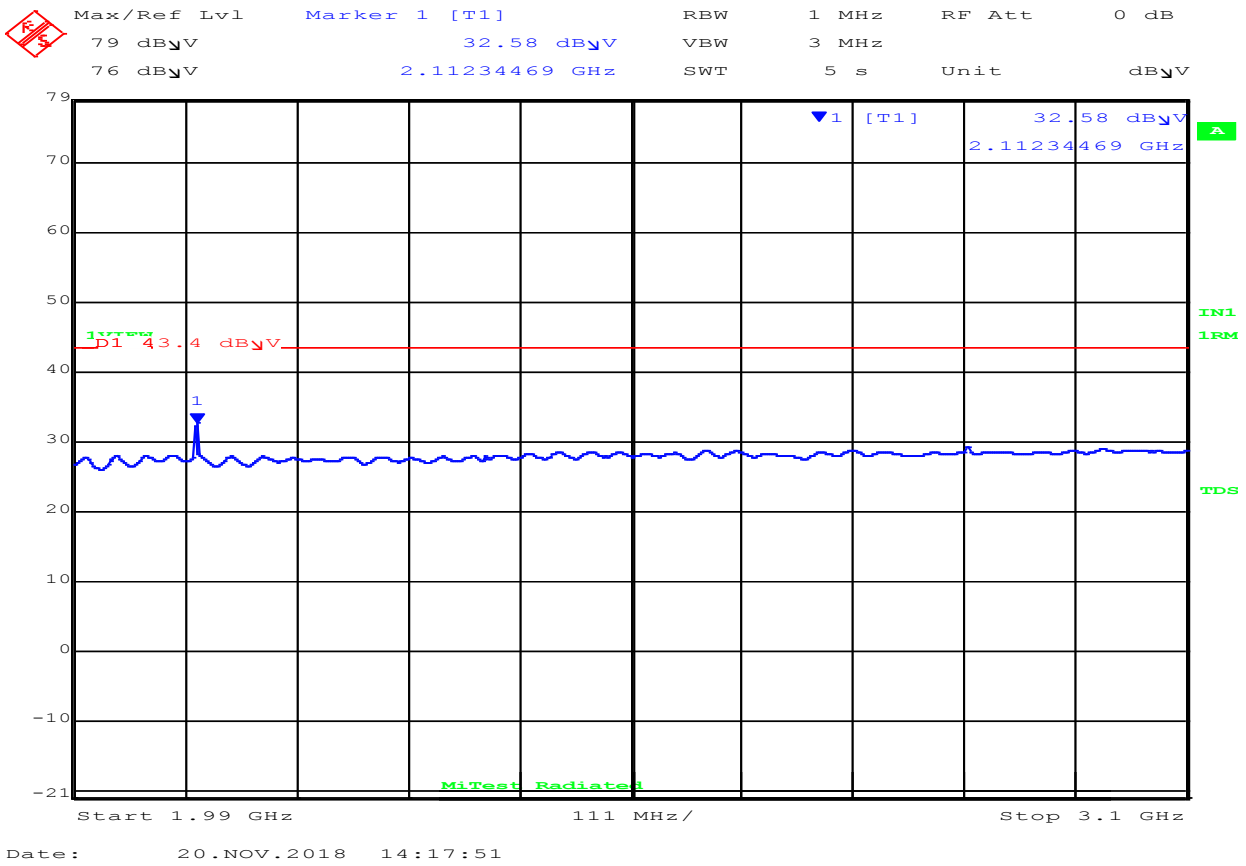
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-1.31GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

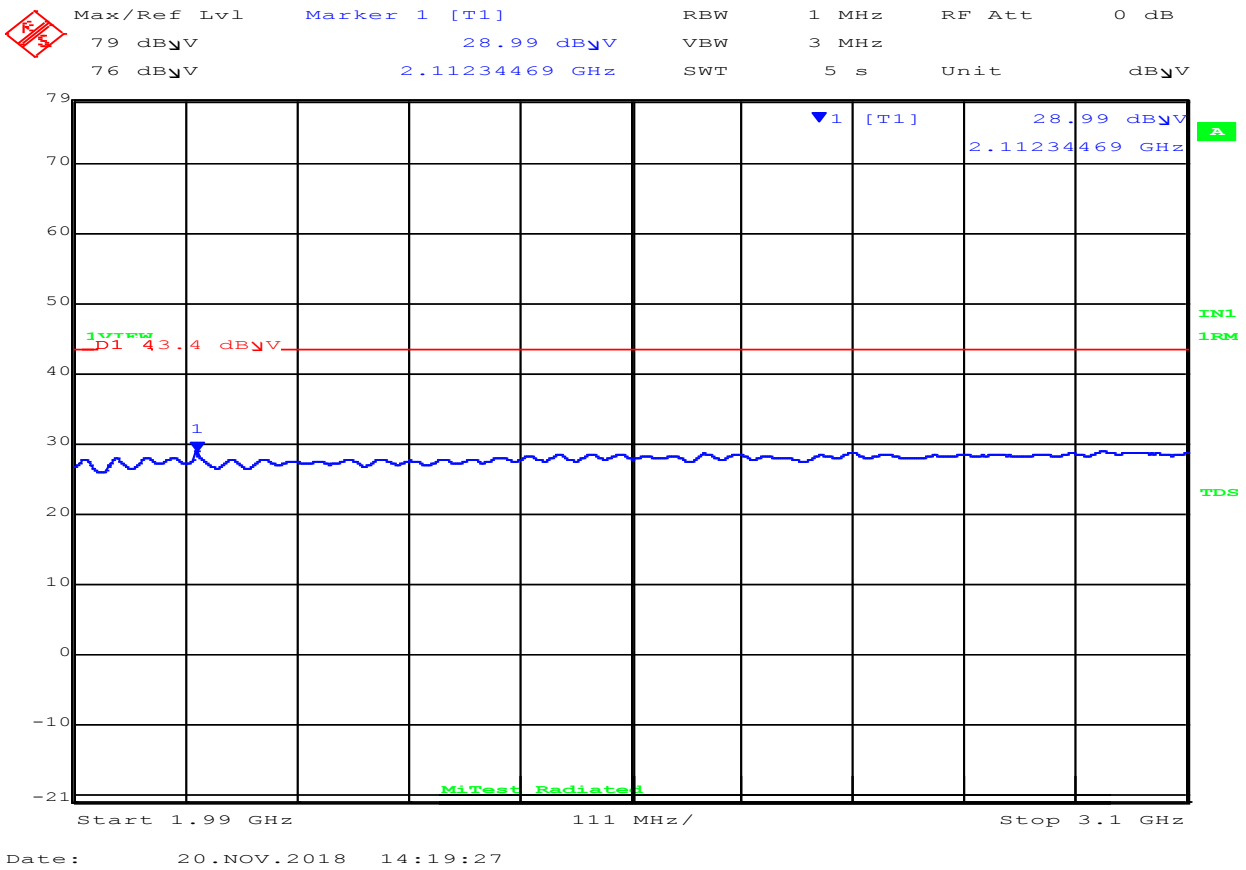
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

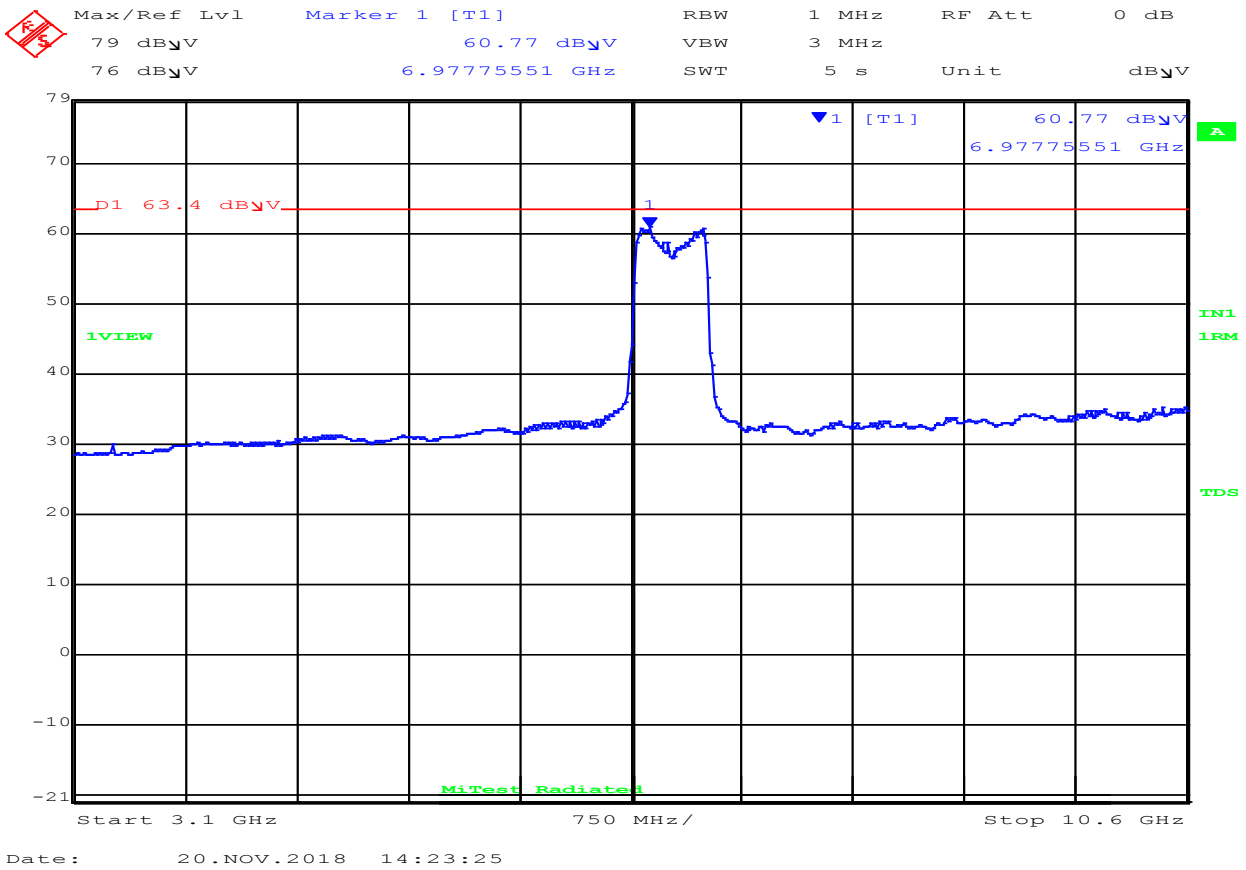
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	6977.8	58.9	Average	Horizontal	150	0	63.4	-4.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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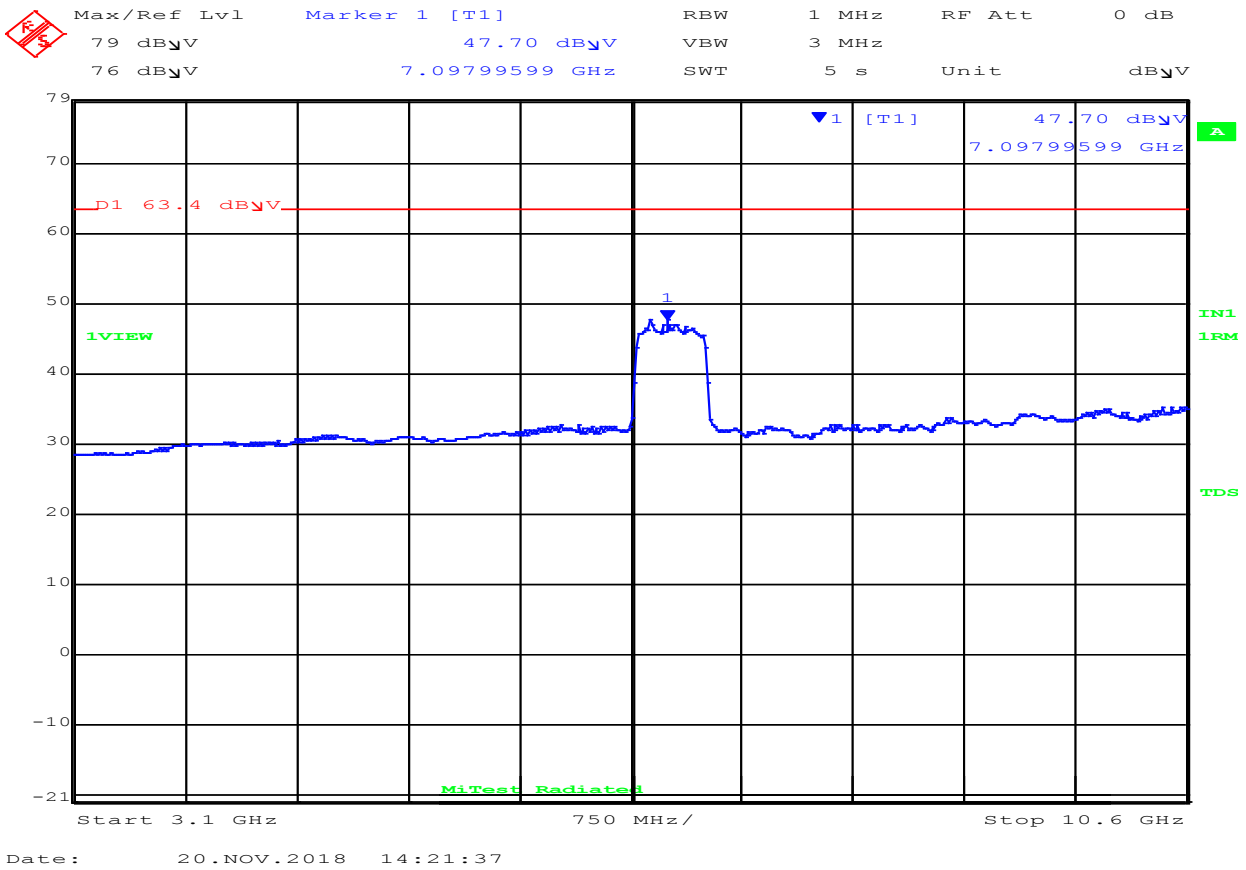
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

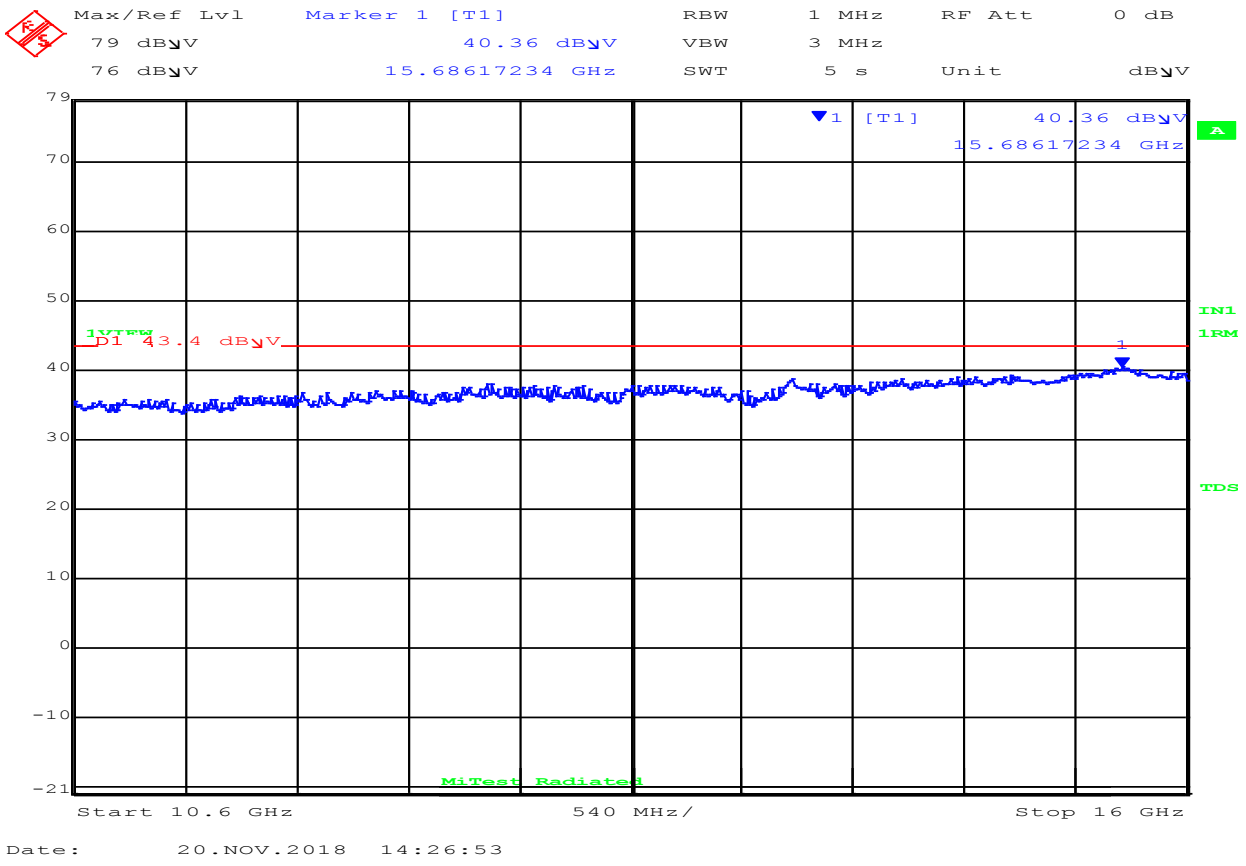
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.4	Average	Horizontal	150	0	43.4	-4.0	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

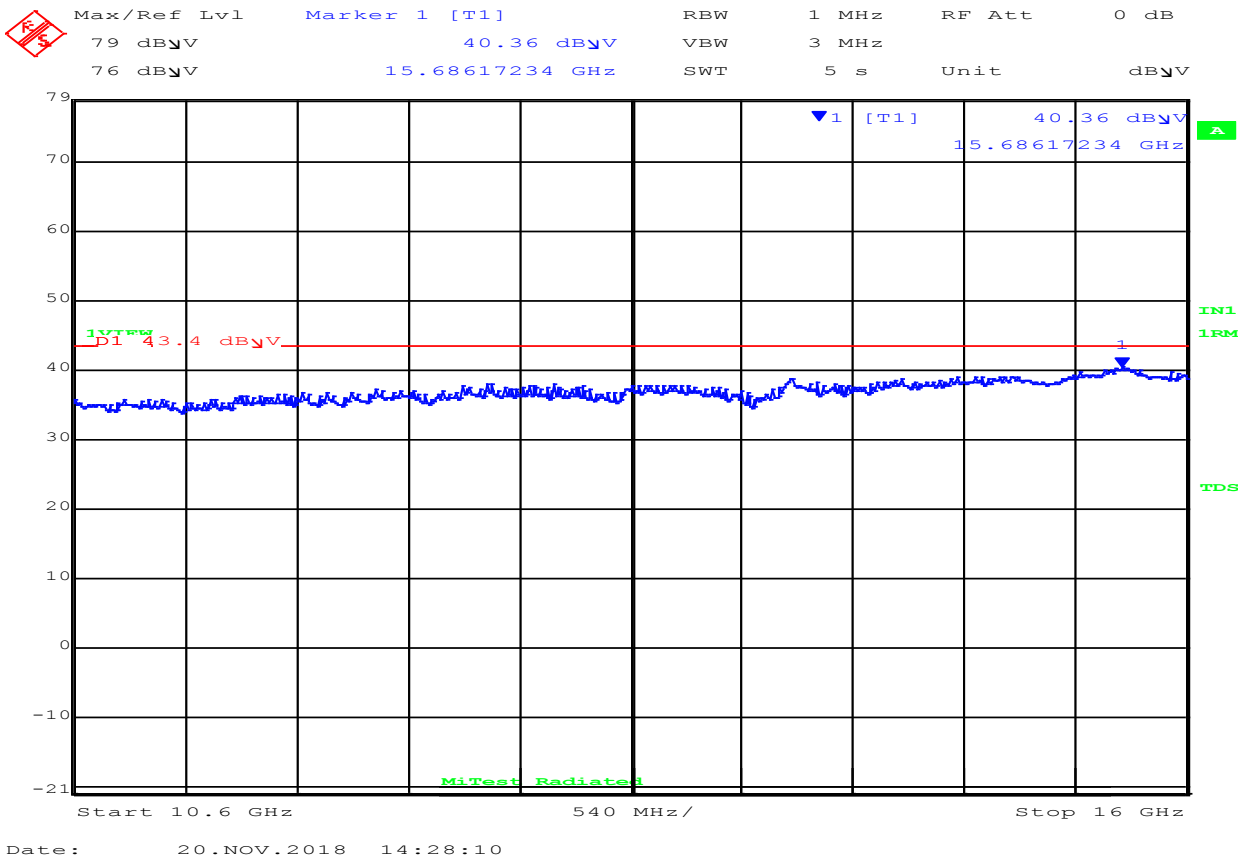
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.3	Average	Vertical	150	0	43.4	-4.1	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

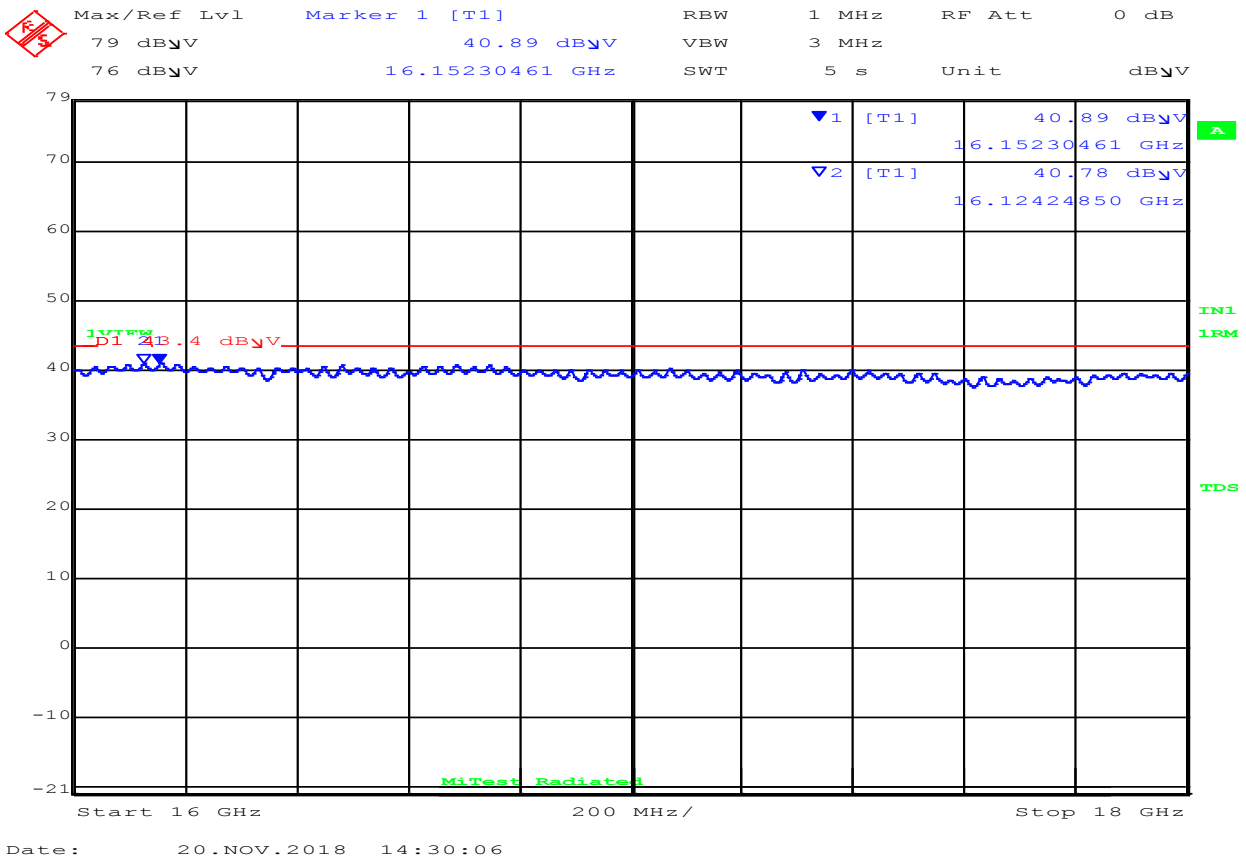
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	39.9	Average	Horizontal	150	0	43.4	-3.5	Pass
2	16124.2	39.8	Average	Horizontal	150	0	43.4	-3.6	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

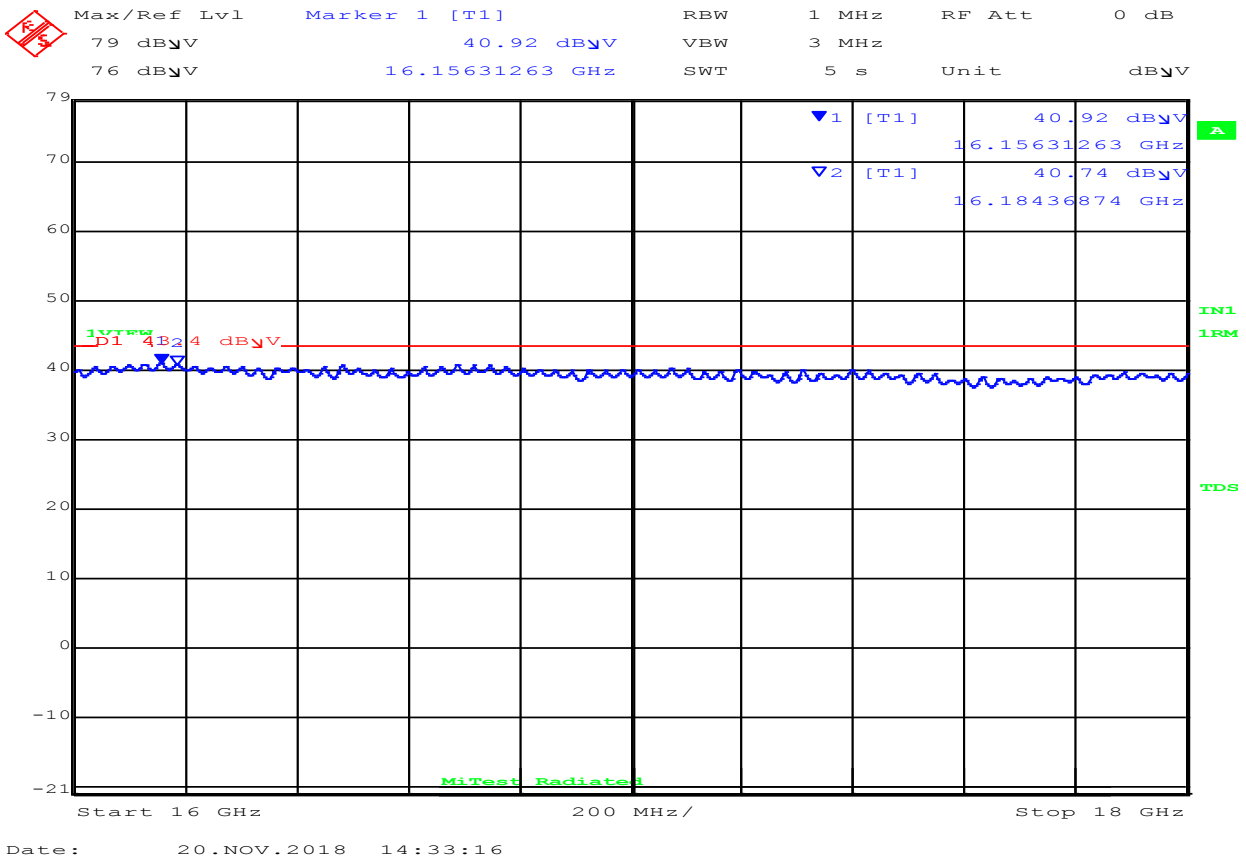
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16156.3	39.9	Average	Vertical	150	0	43.4	-3.5	Pass
2	16184.4	39.8	Average	Vertical	150	0	43.4	-3.6	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

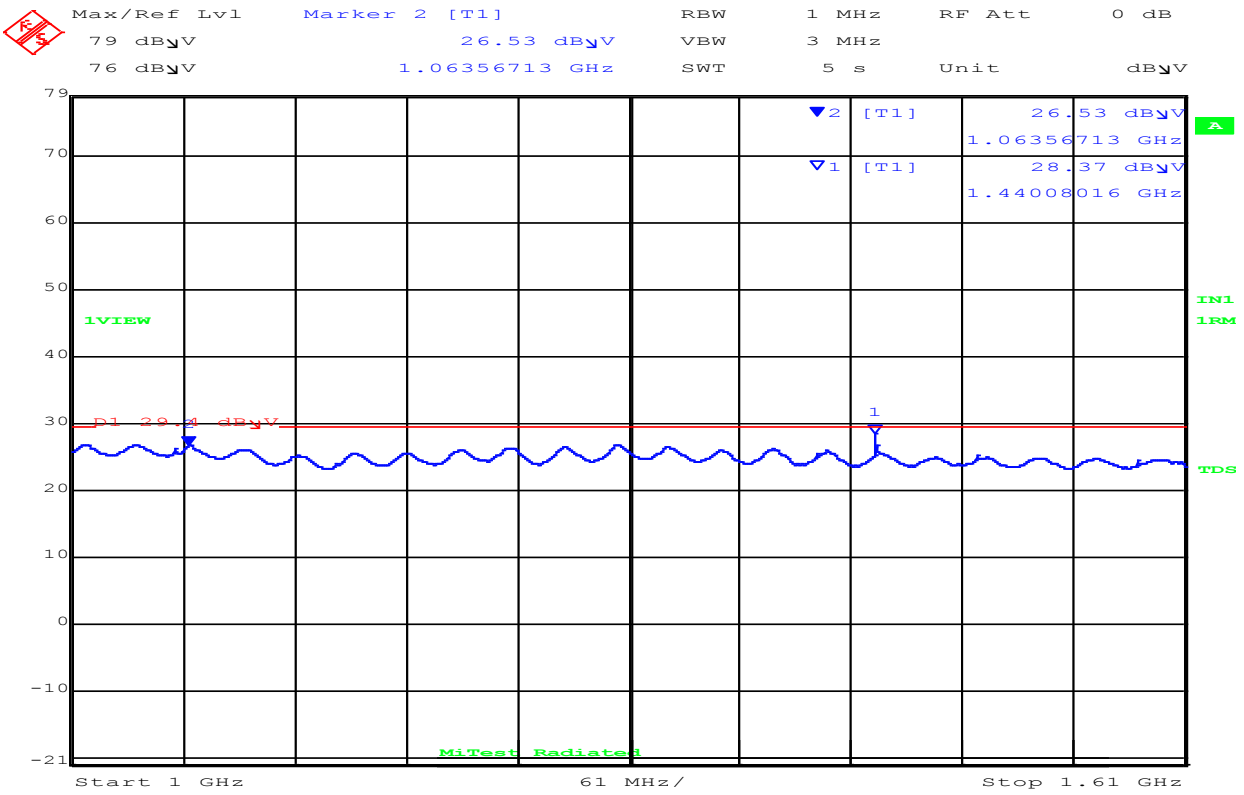
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	28.2	Average	Horizontal	150	0	29.4	-1.2	Pass
2	1063.6	24.5	Average	Horizontal	150	0	29.4	-4.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

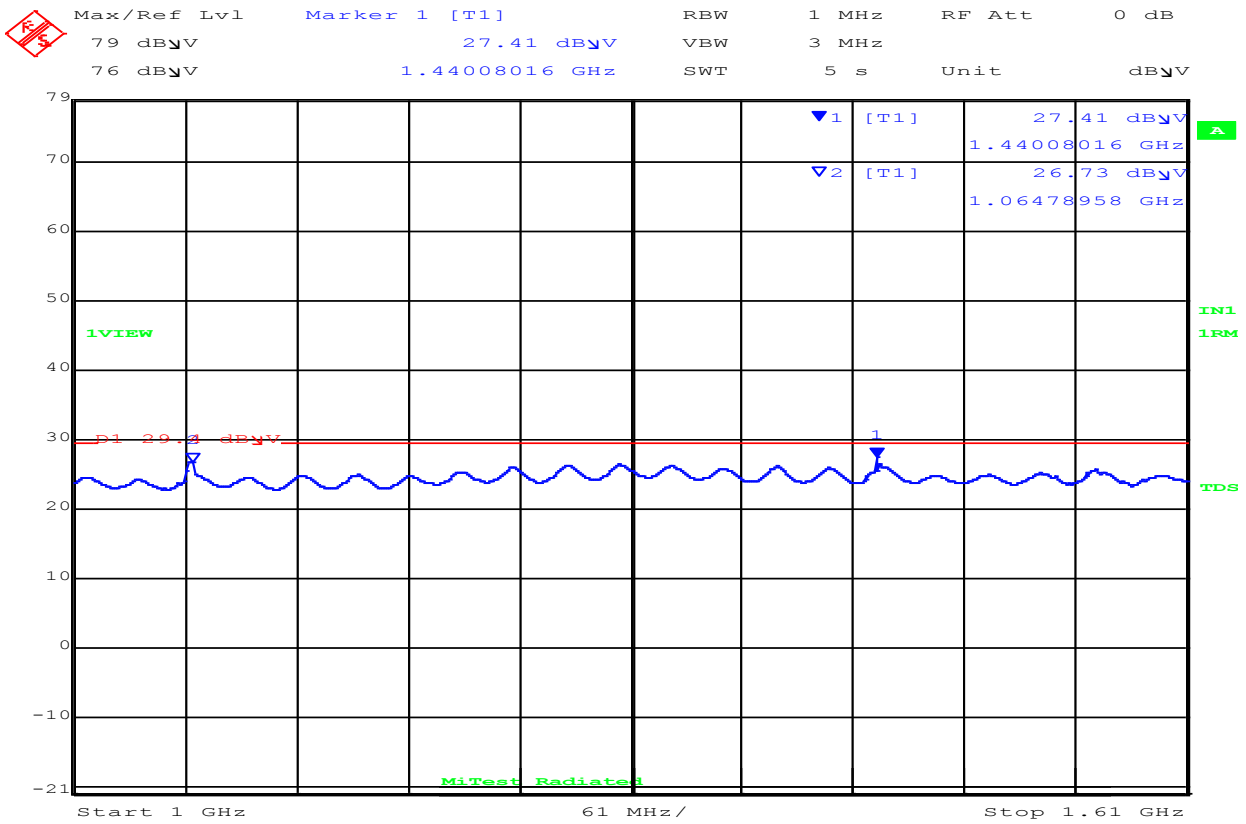
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	26.4	Average	Vertical	150	0	29.4	-3.0	Pass
2	1064.8	24.5	Average	Vertical	150	0	29.4	-4.9	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

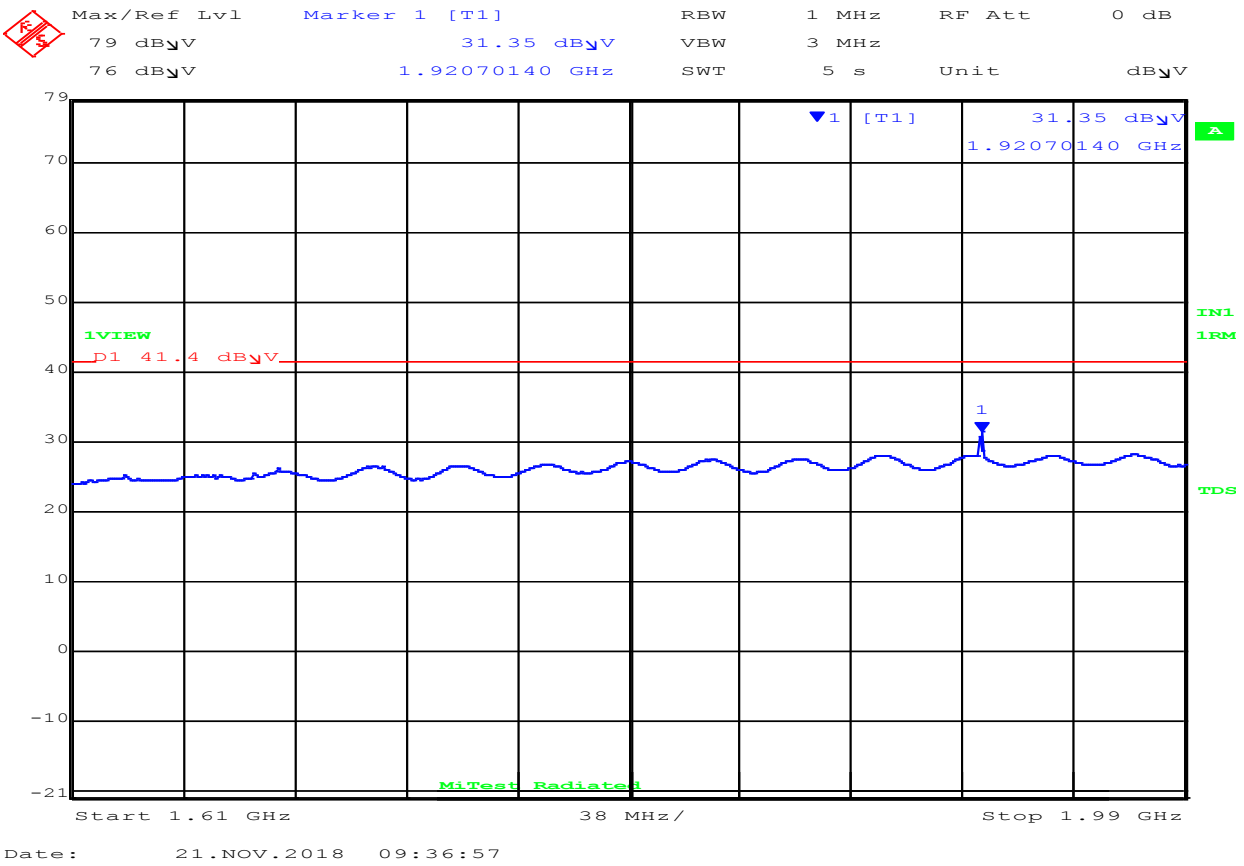
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

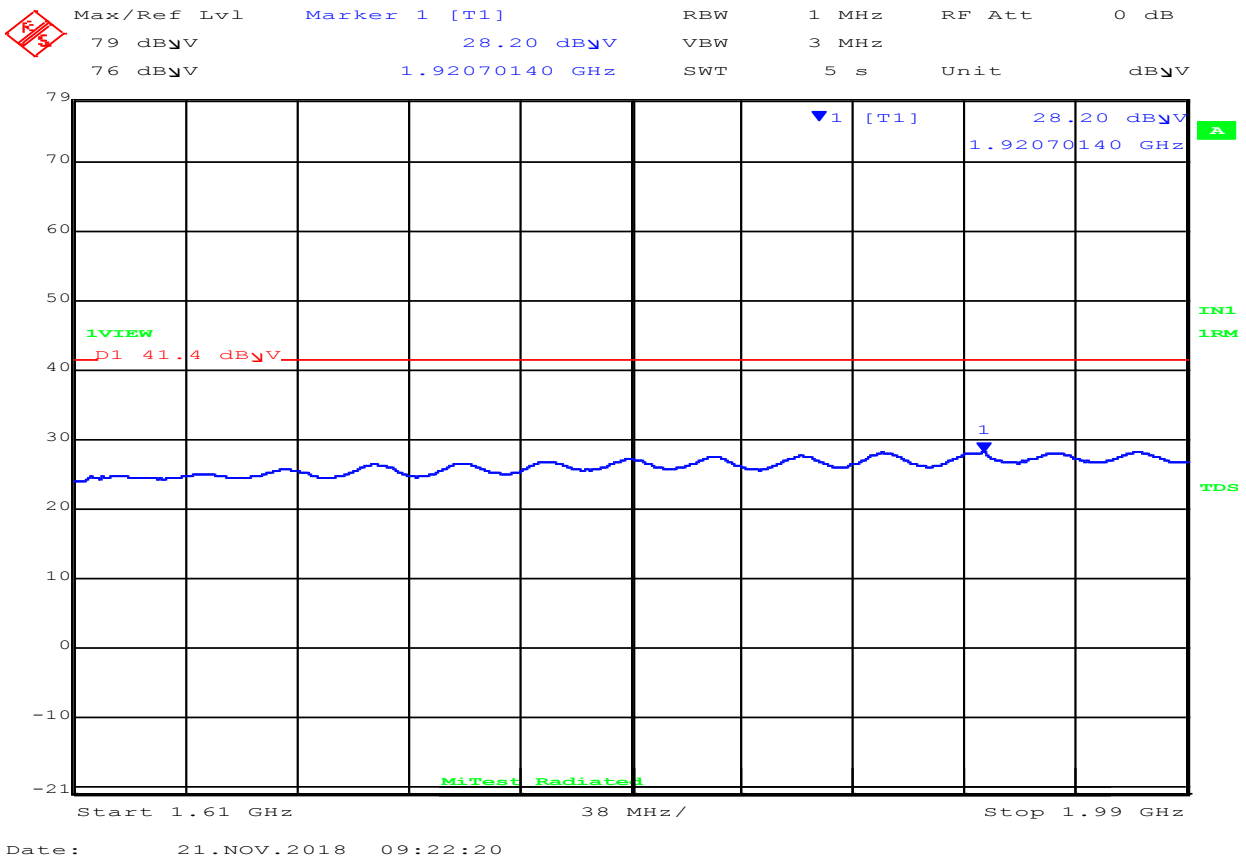
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



Date: 21.NOV.2018 09:22:20

1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

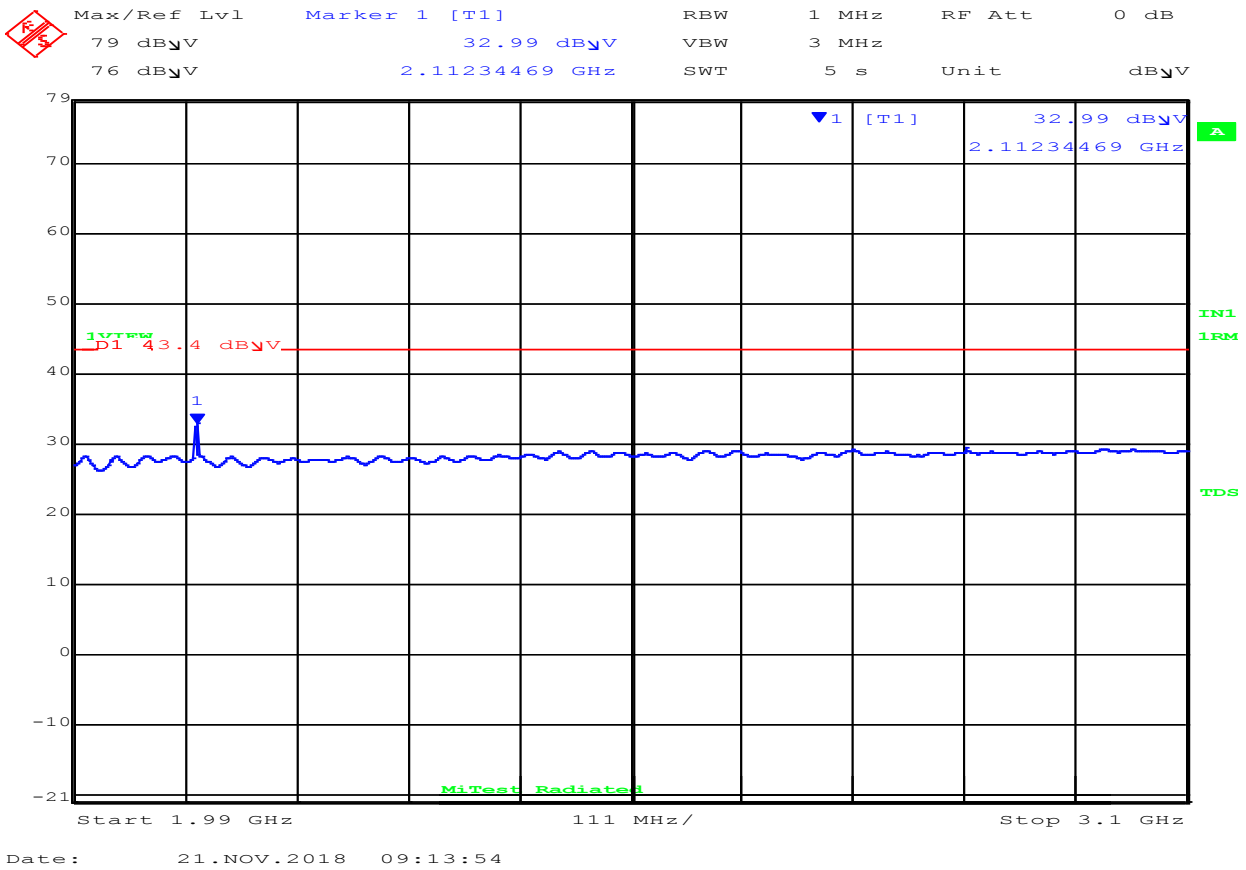
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

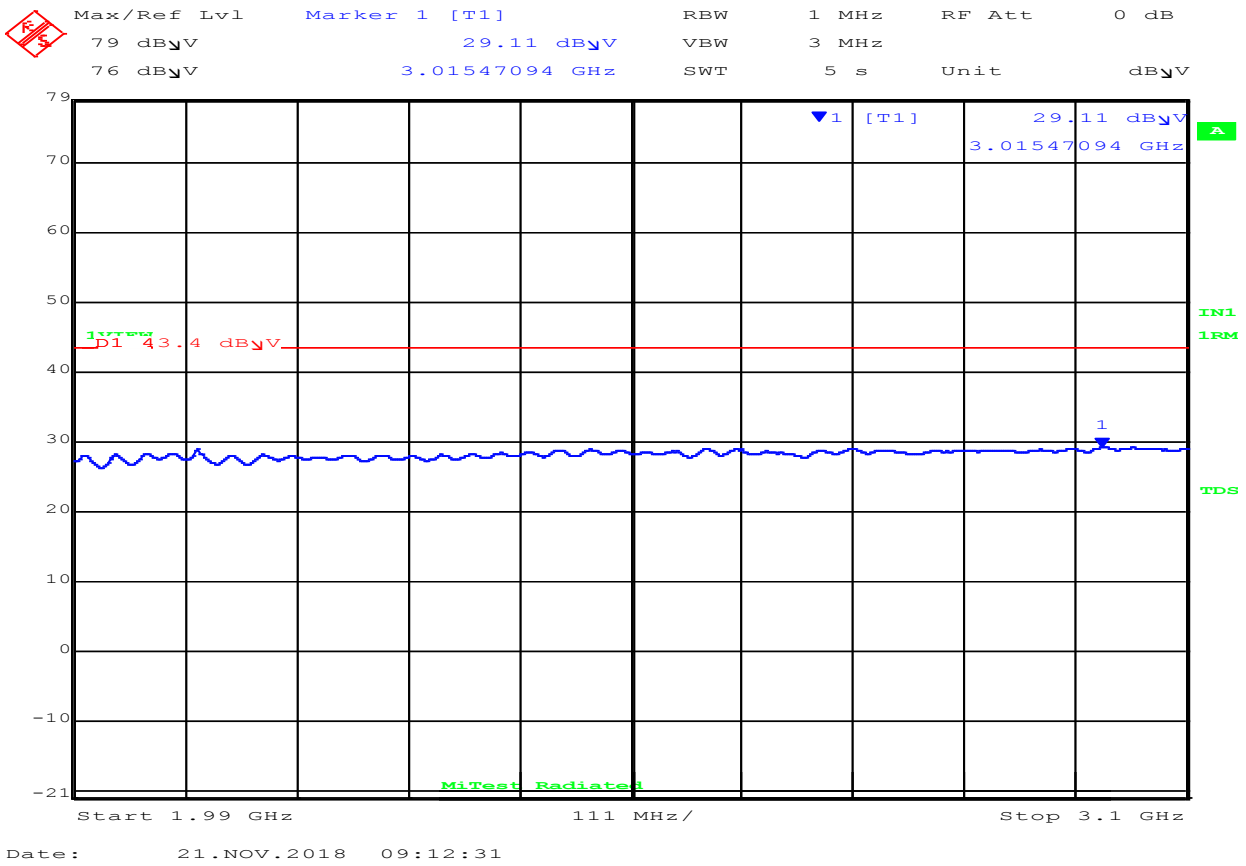
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

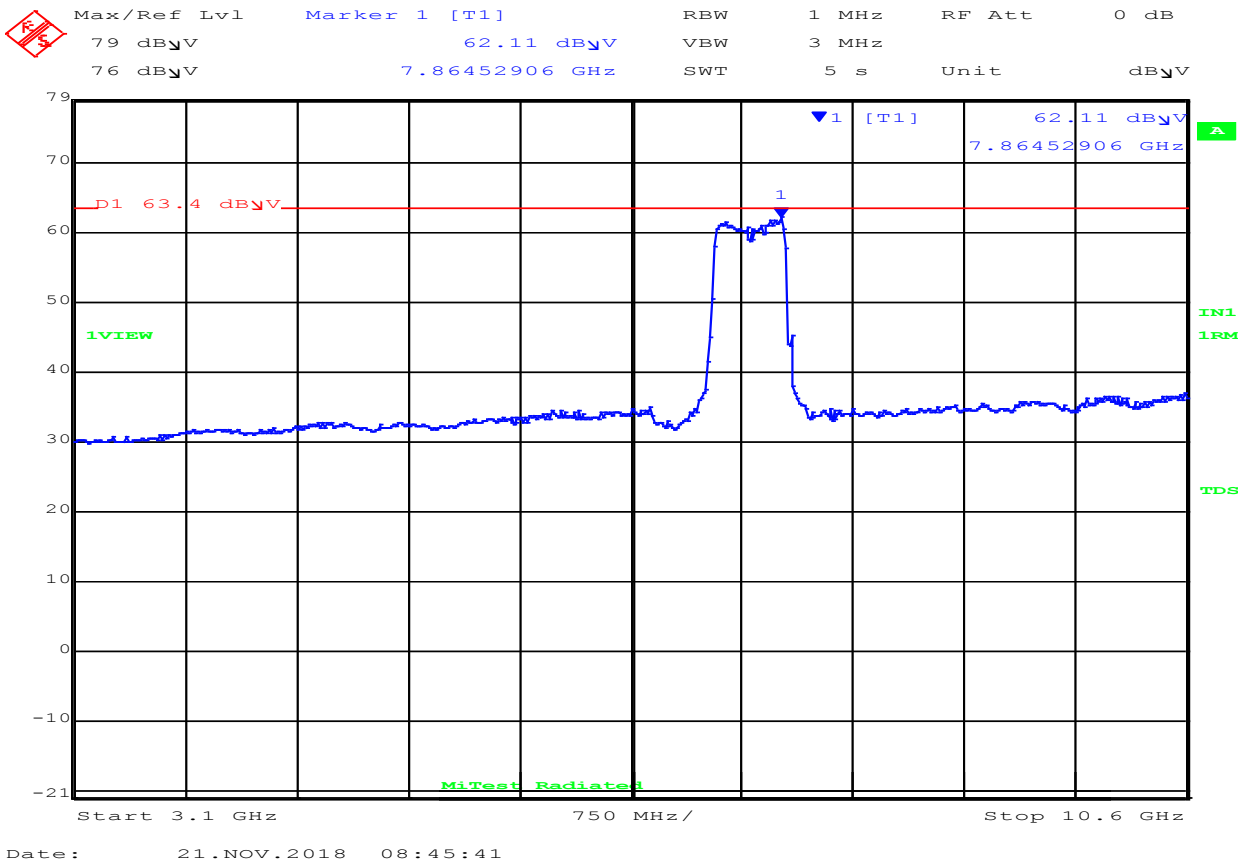
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	7864.5	60.5	Average	Horizontal	150	0	63.4	-2.9	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

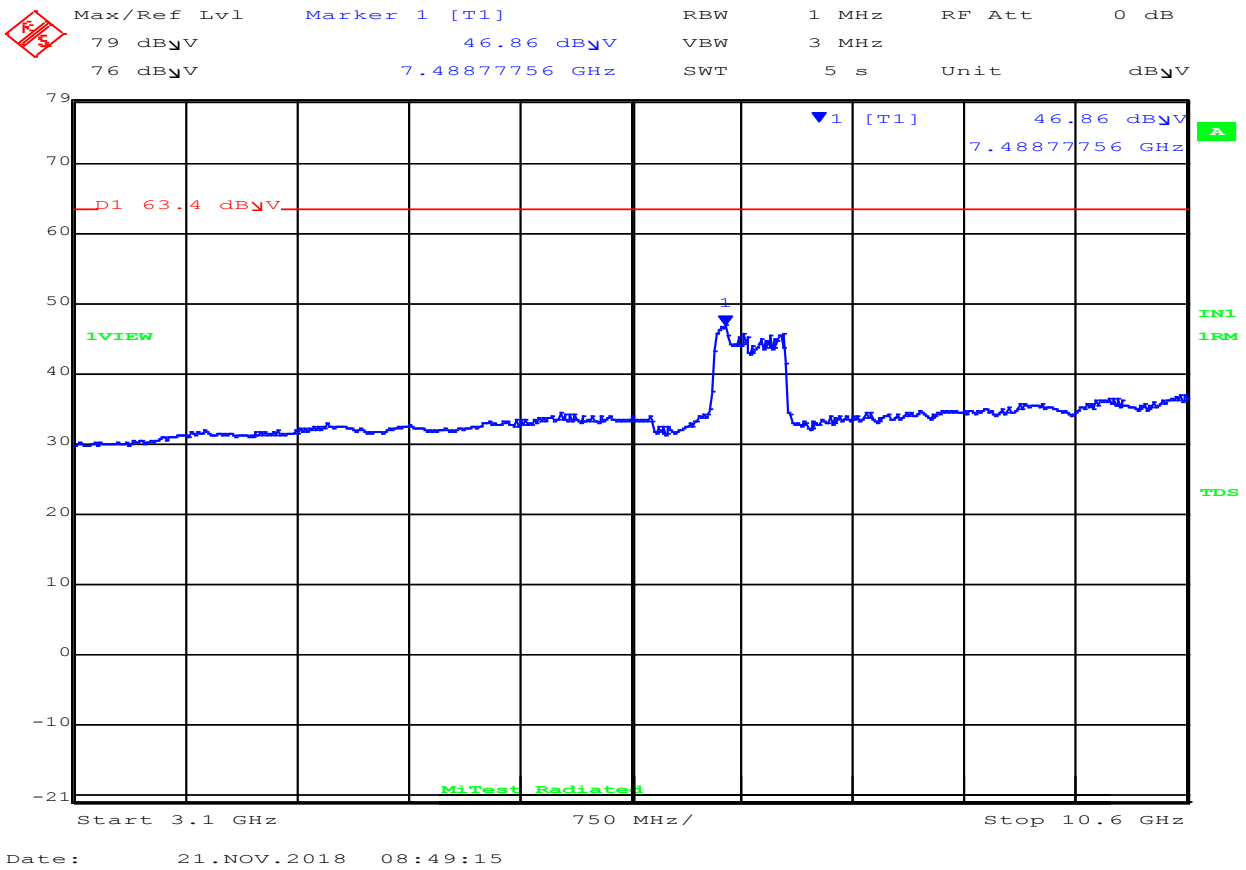
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

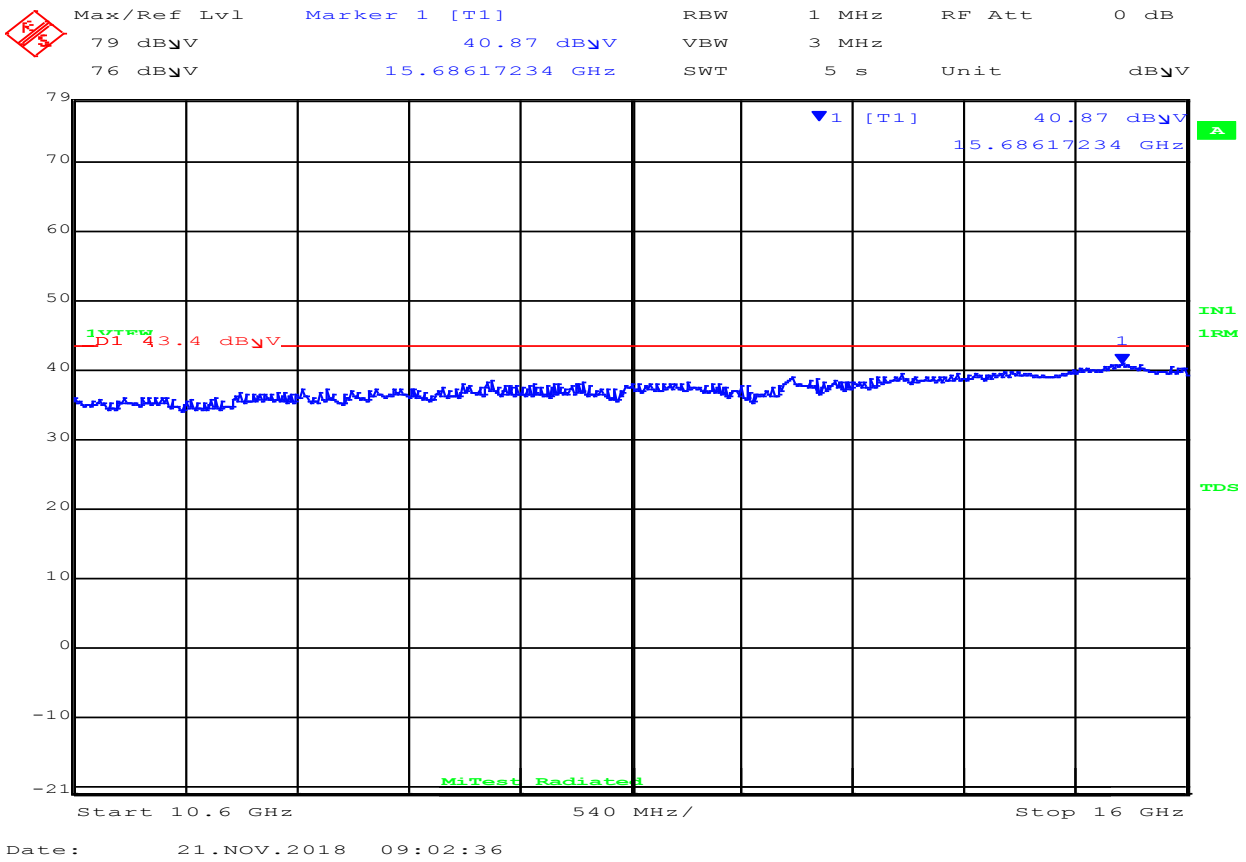
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.7	Average	Horizontal	150	0	43.4	-3.70	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

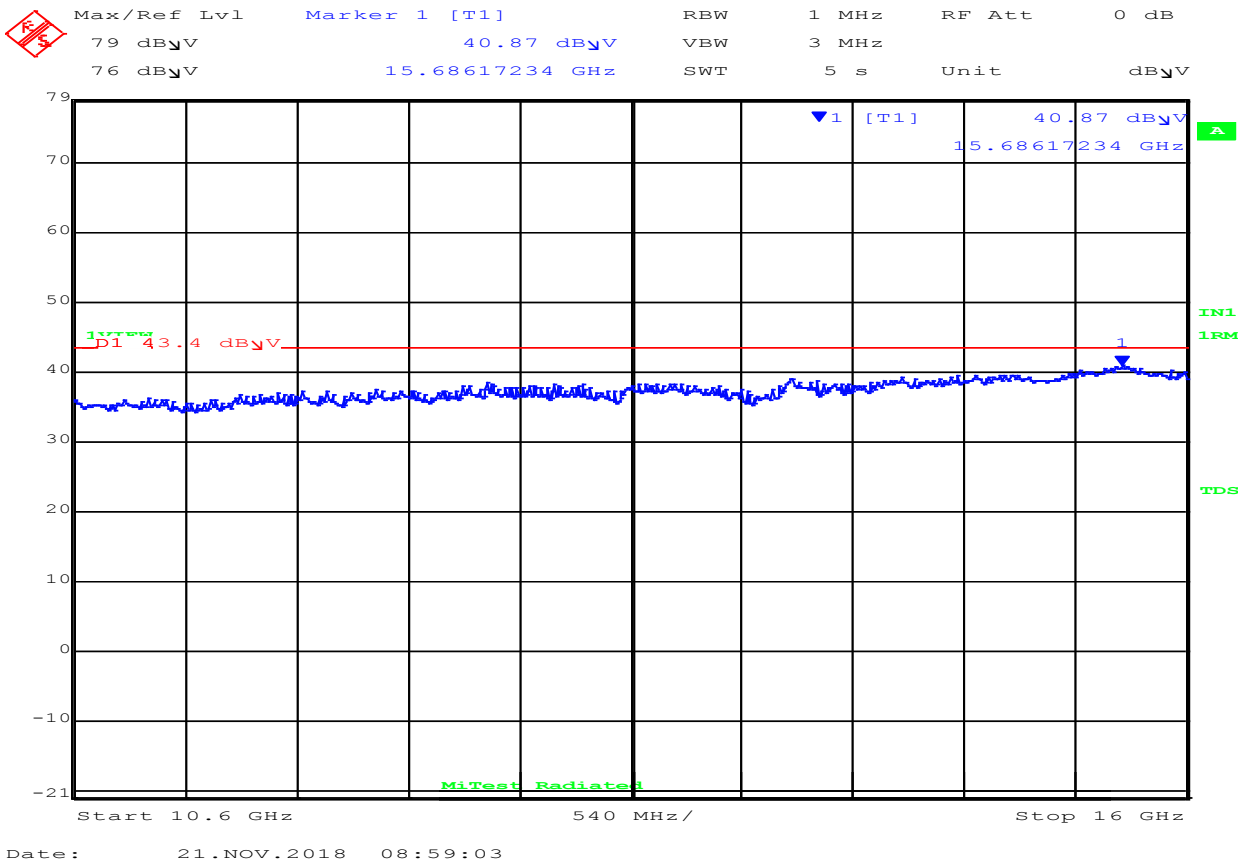
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.6	Average	Vertical	150	0	43.4	-3.8	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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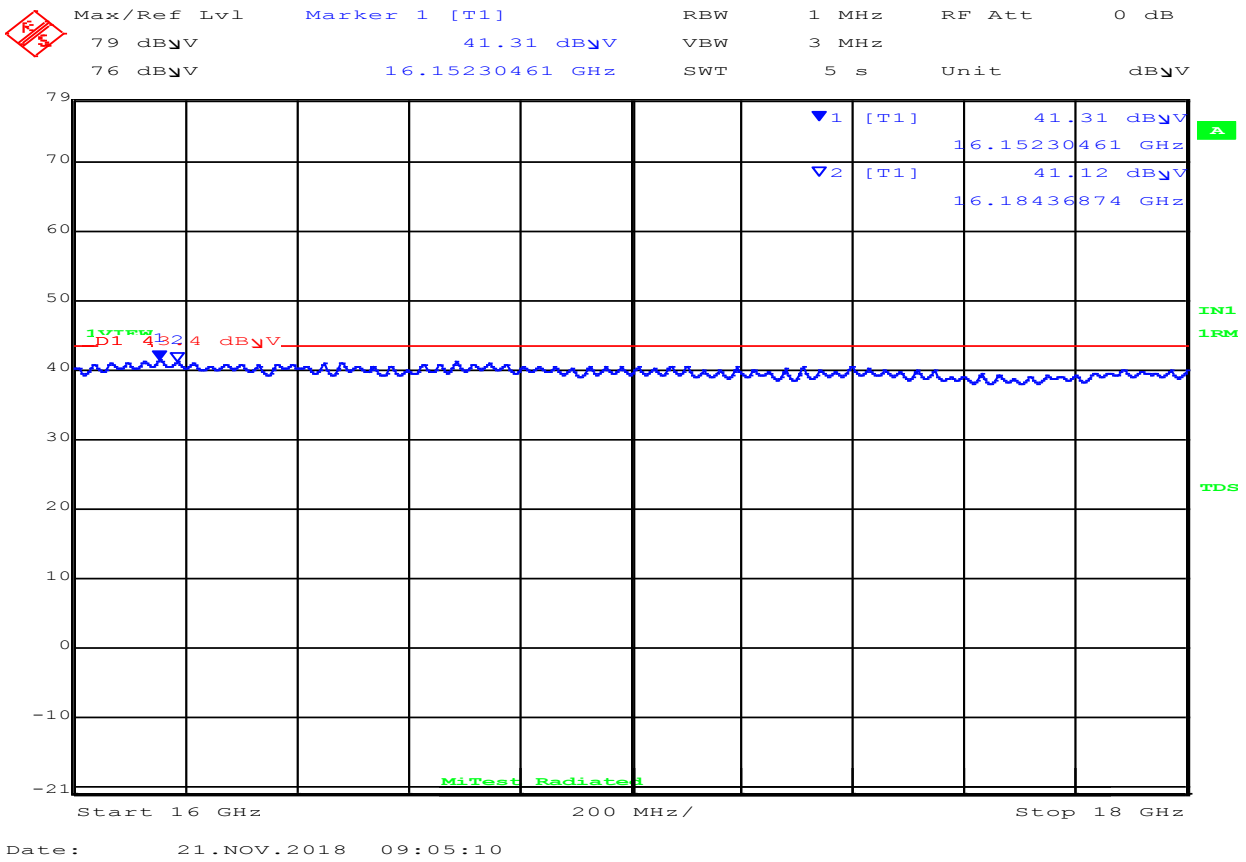
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.3	Average	Horizontal	150	0	43.4	-3.1	Pass
2	16184.4	40.2	Average	Horizontal	150	0	43.4	-3.2	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

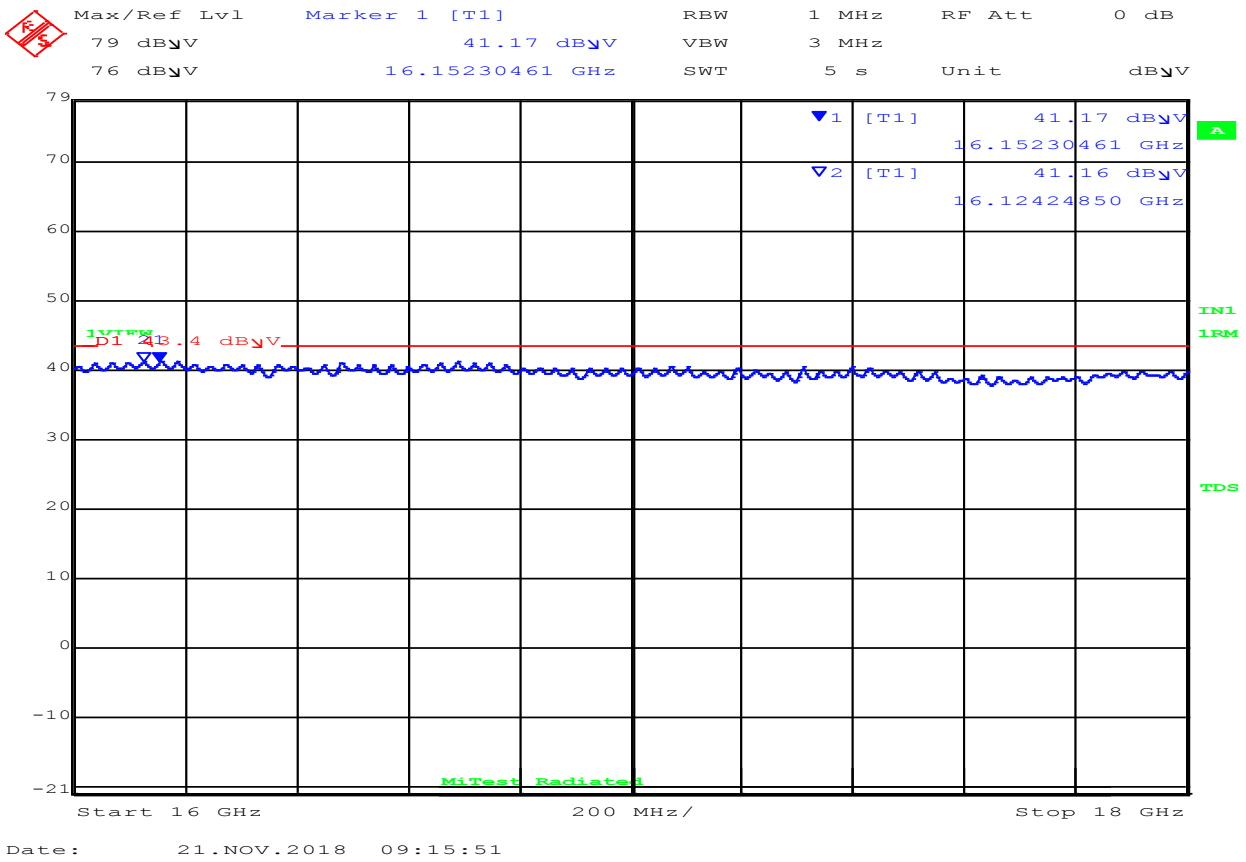
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.2	Average	Vertical	150	0	43.4	-3.2	Pass
2	16124.2	40.1	Average	Vertical	150	0	43.4	-3.3	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

8184 MHz

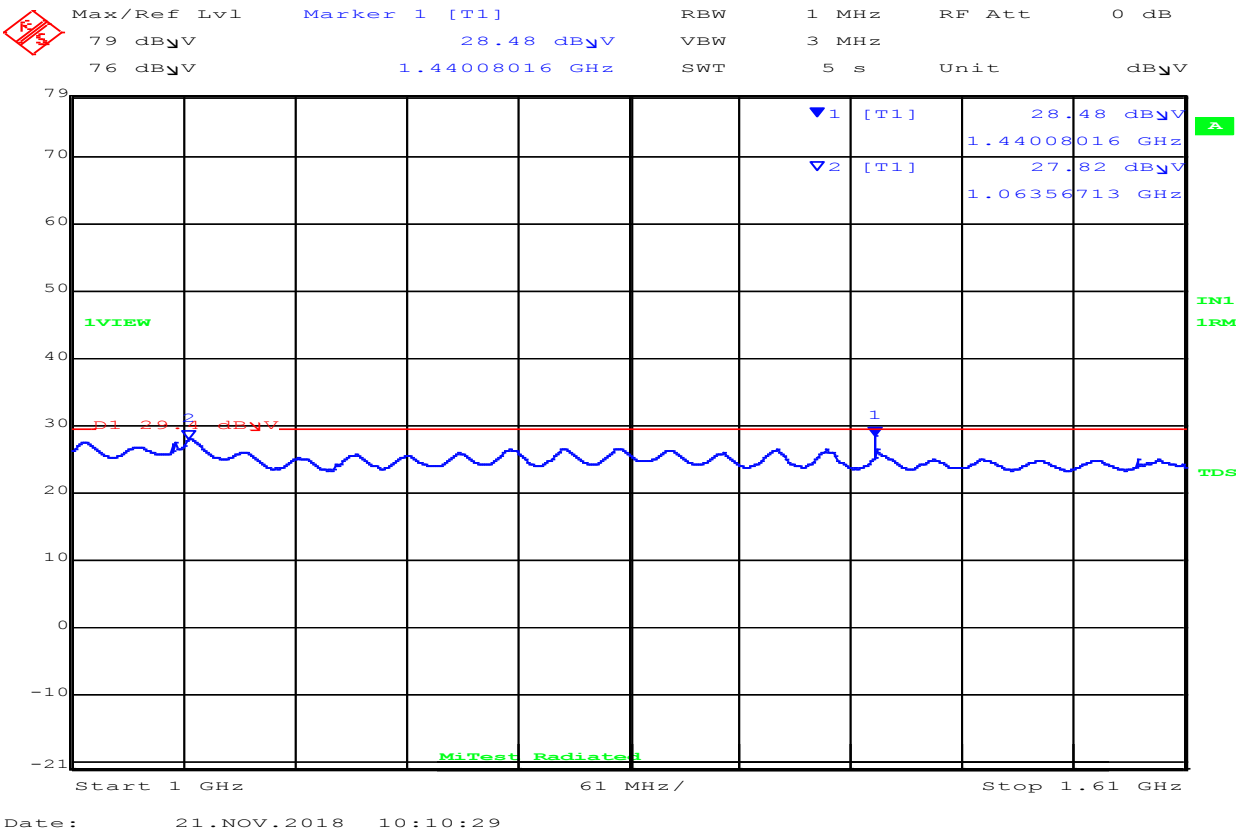
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	24.2	Average	Horizontal	150	0	29.4	-5.2	Pass
2	1063.6	25.4	Average	Horizontal	150	0	29.4	-4. 0	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

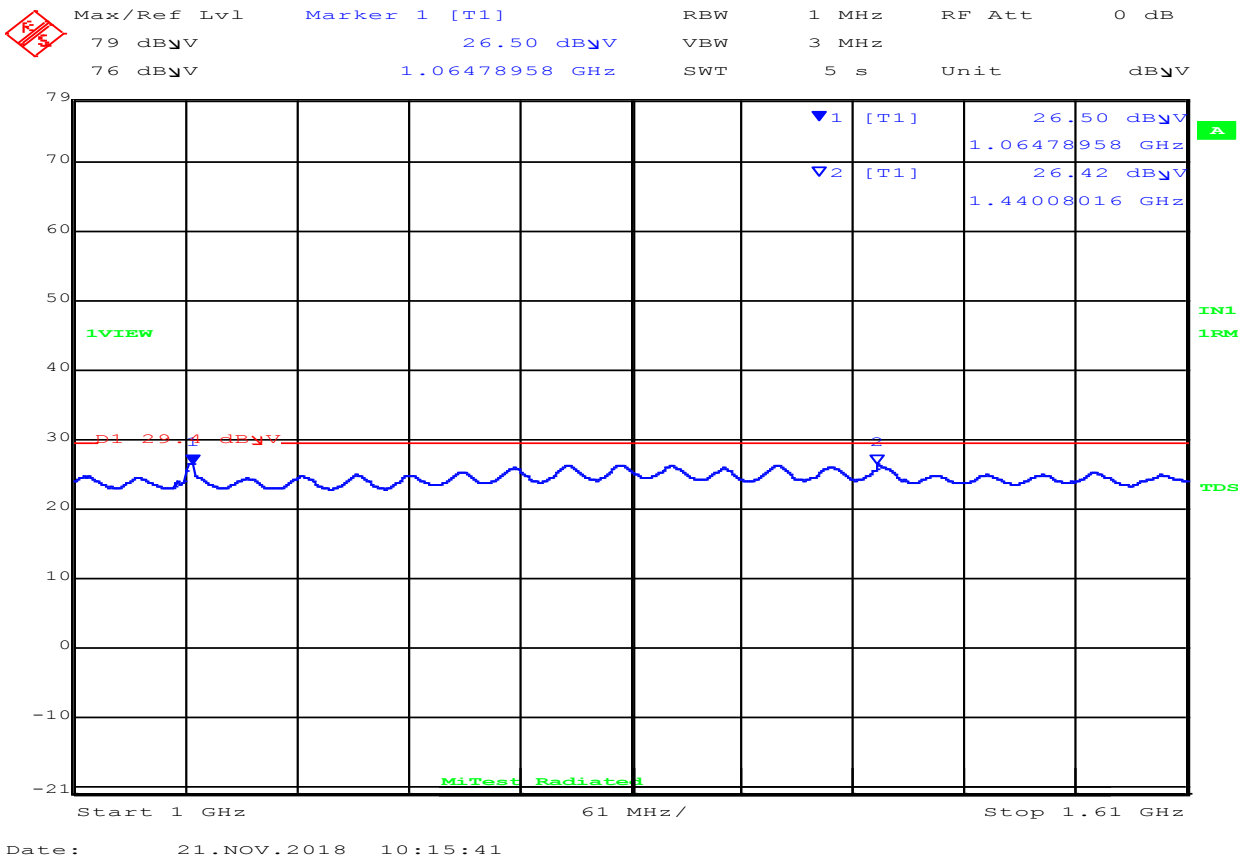
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1064.8	24.3	Average	Vertical	150	0	29.4	-5.1	Pass
2	1440.1	25.3	Average	Vertical	150	0	29.4	-4.1	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

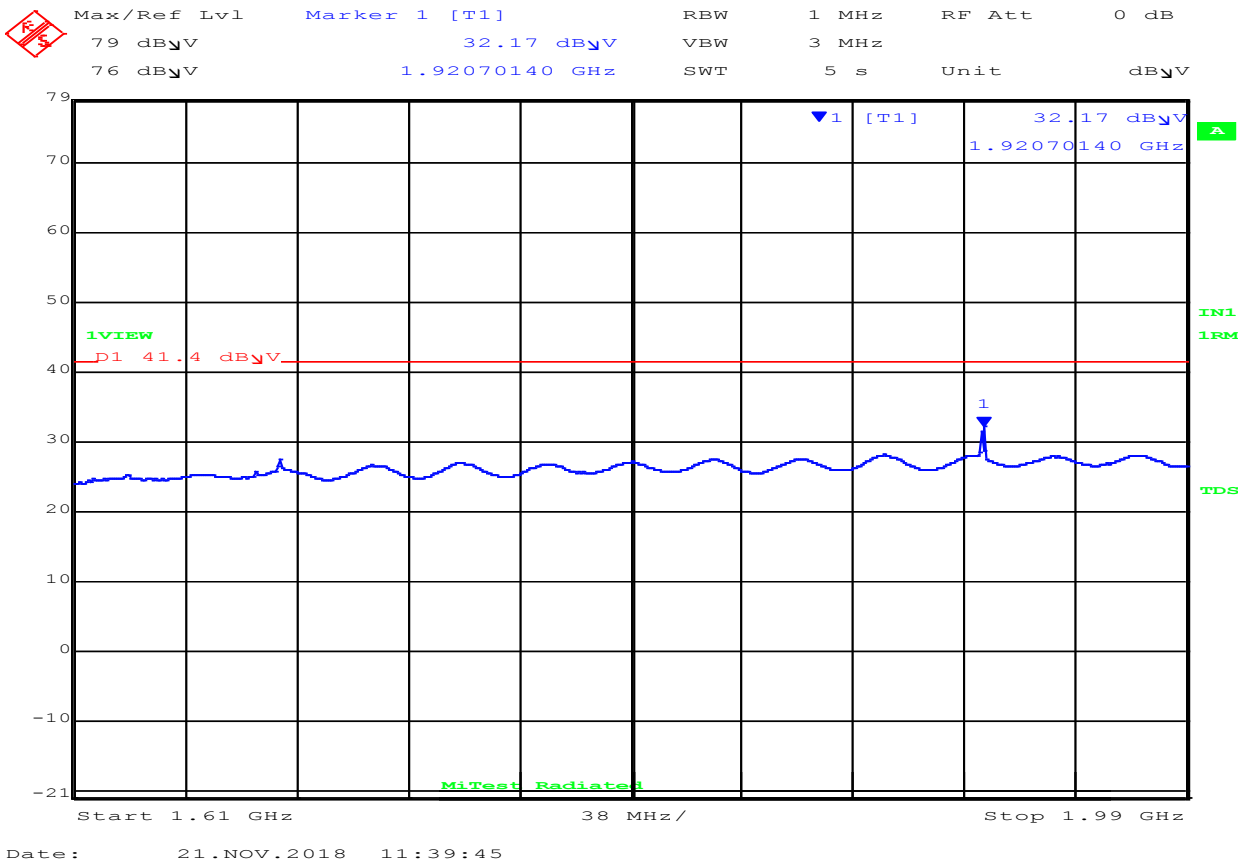
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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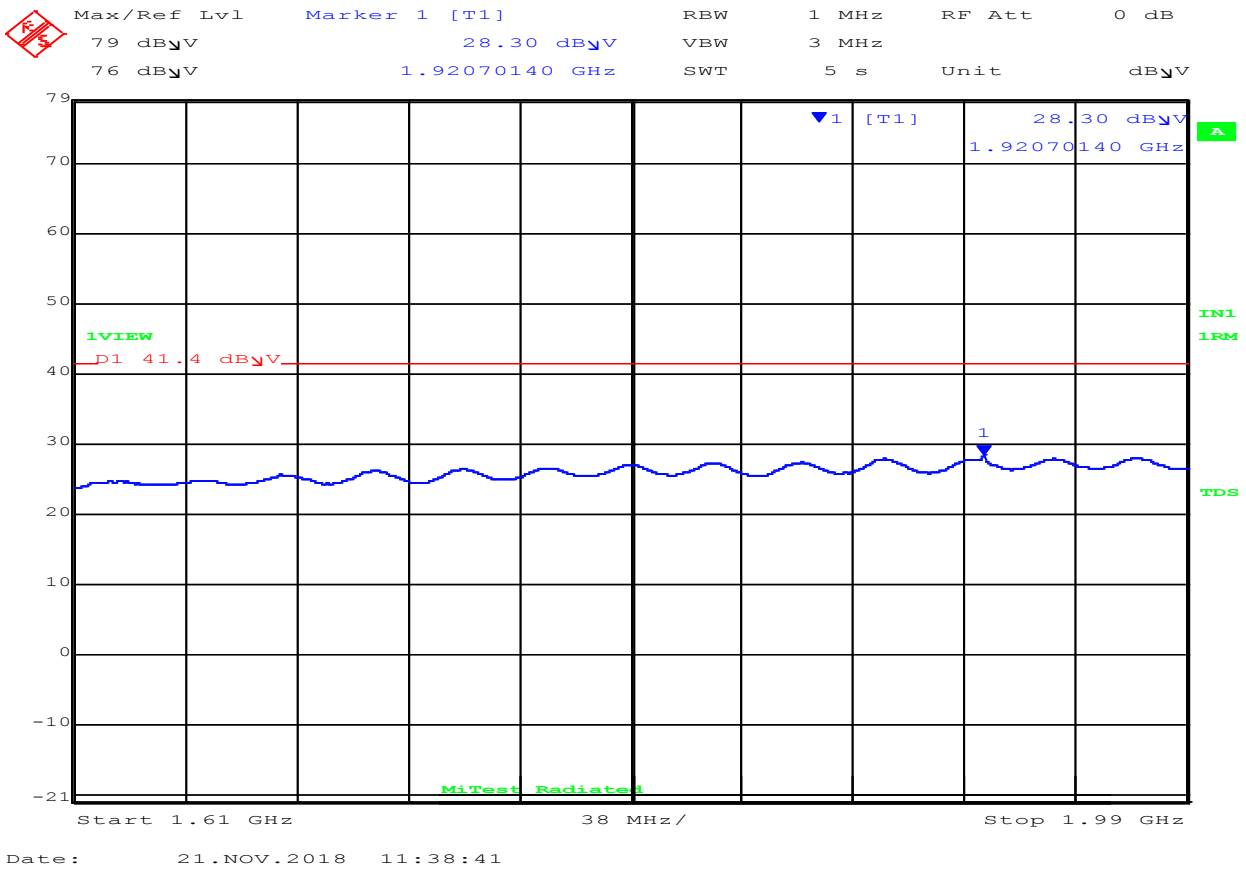
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

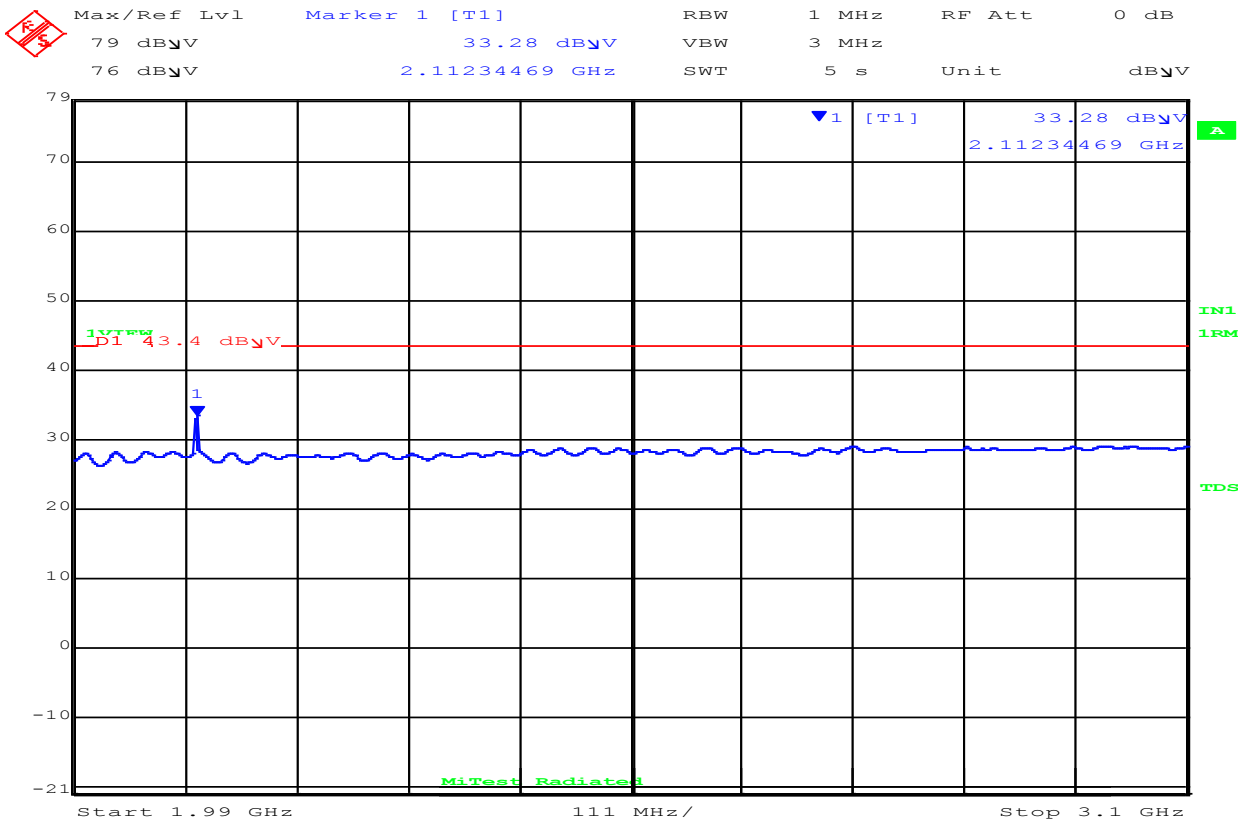
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

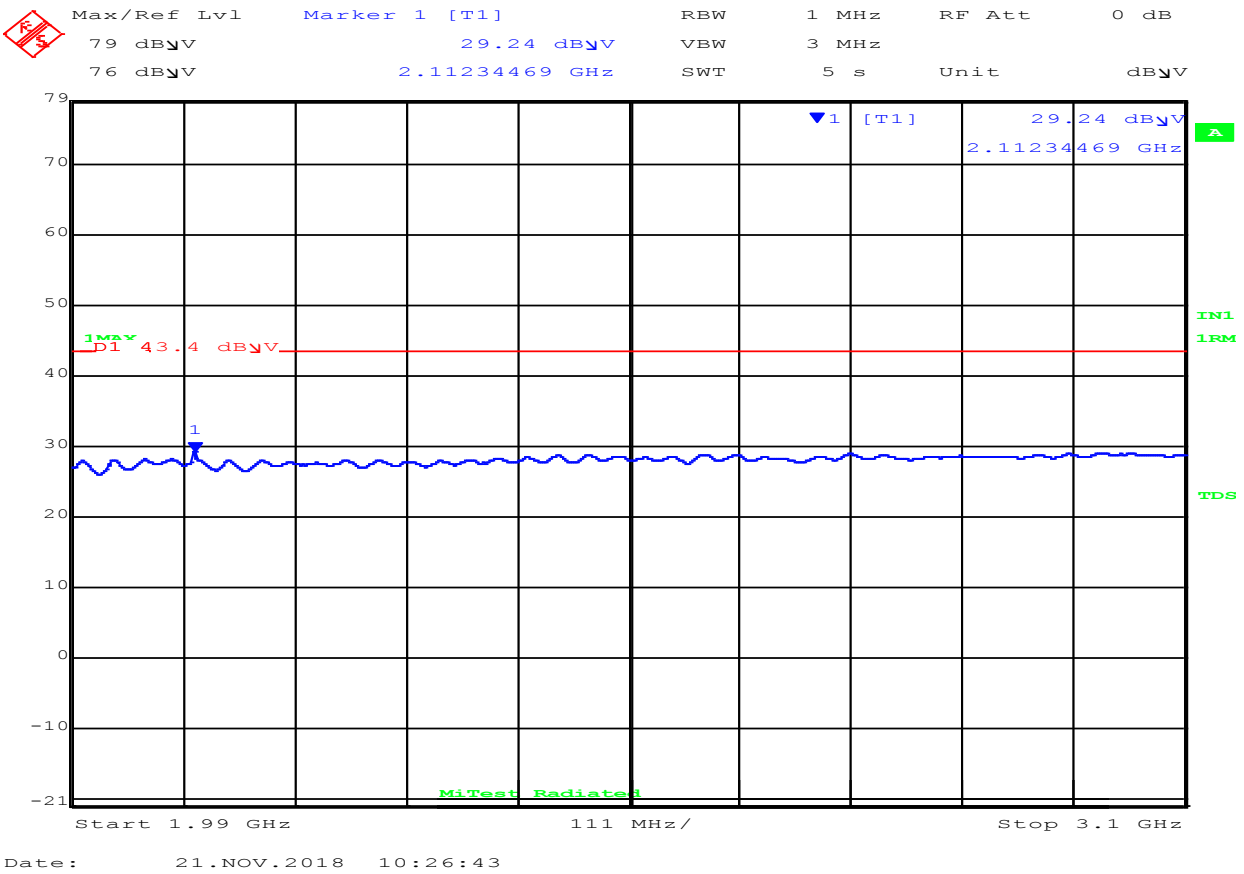
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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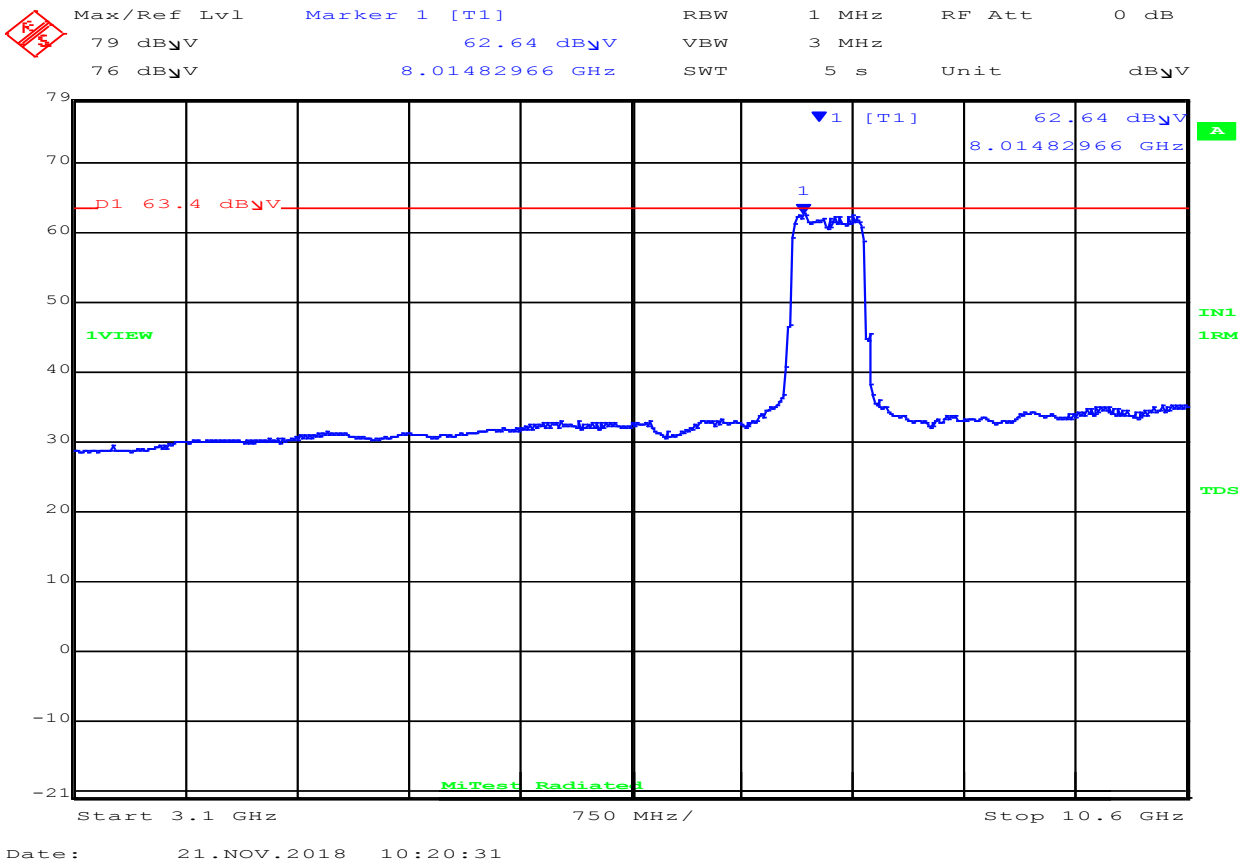
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	8014.8	62.2	Average	Horizontal	150	0	63.4	-1.2	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

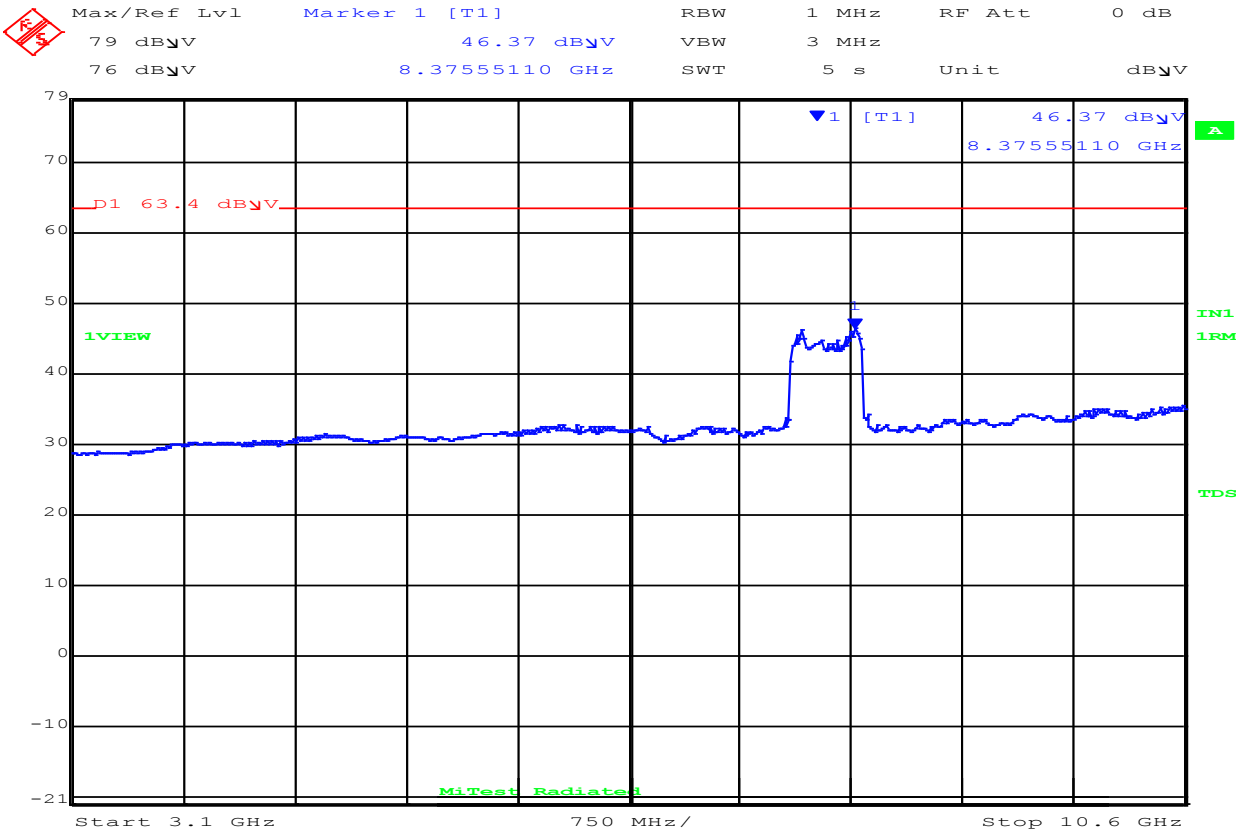
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 21.NOV.2018 10:23:16

3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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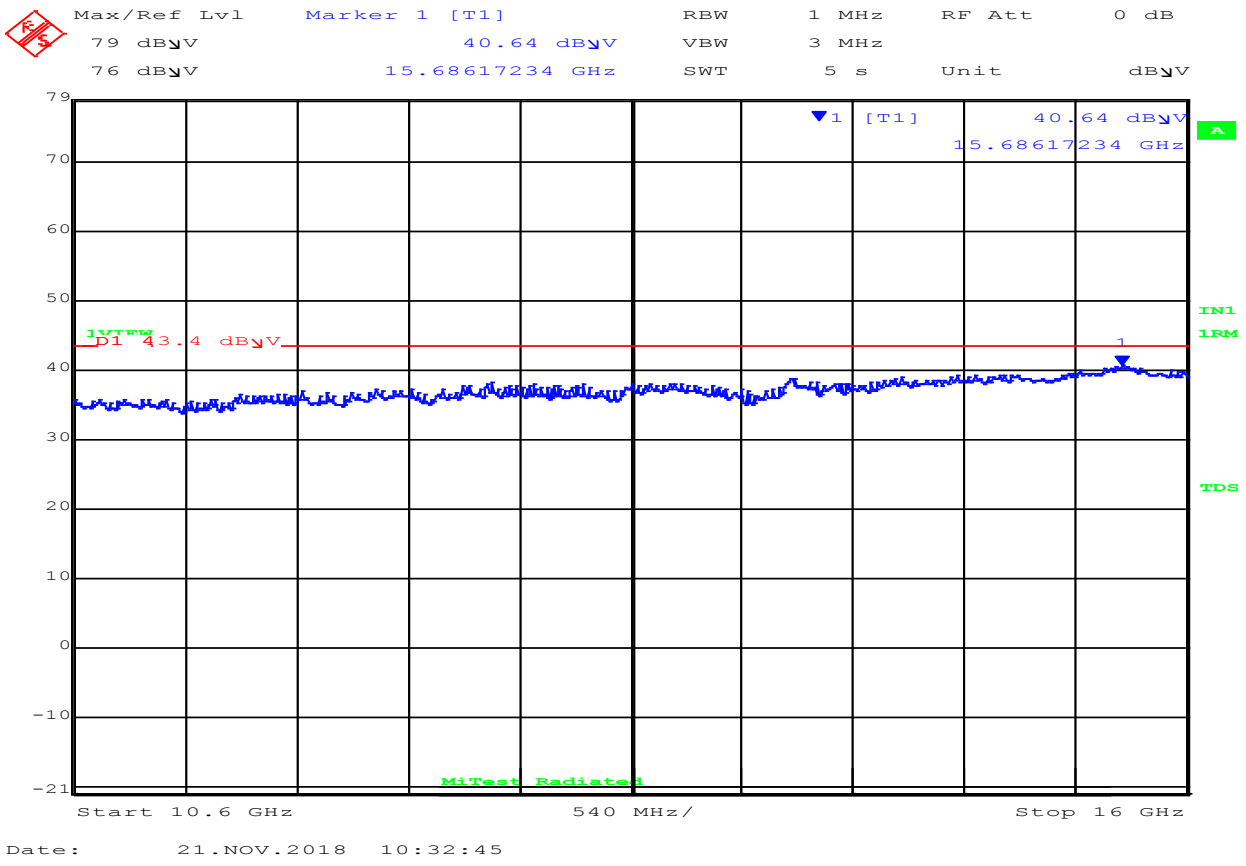
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.5	Average	Horizontal	150	0	43.4	-3.9	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

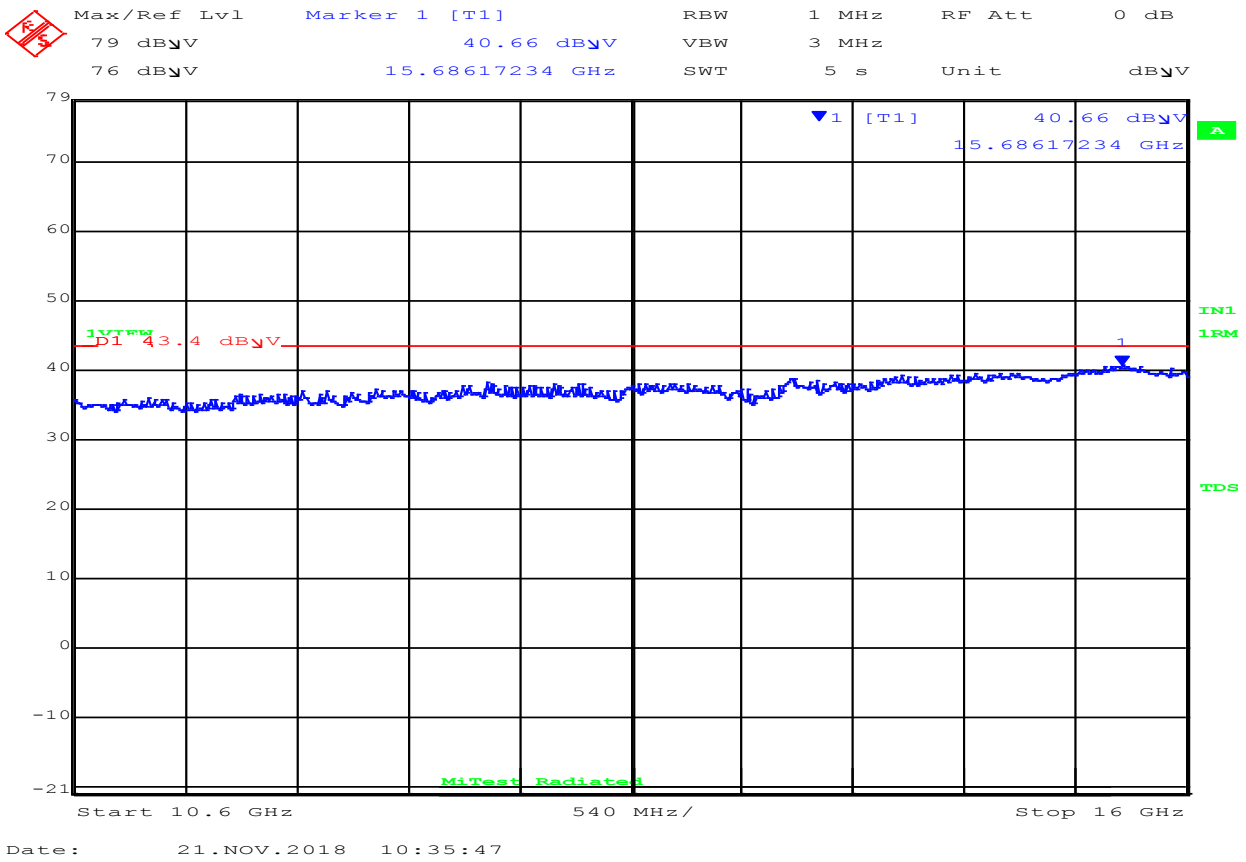
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.6	Average	Vertical	150	0	43.4	-3.8	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

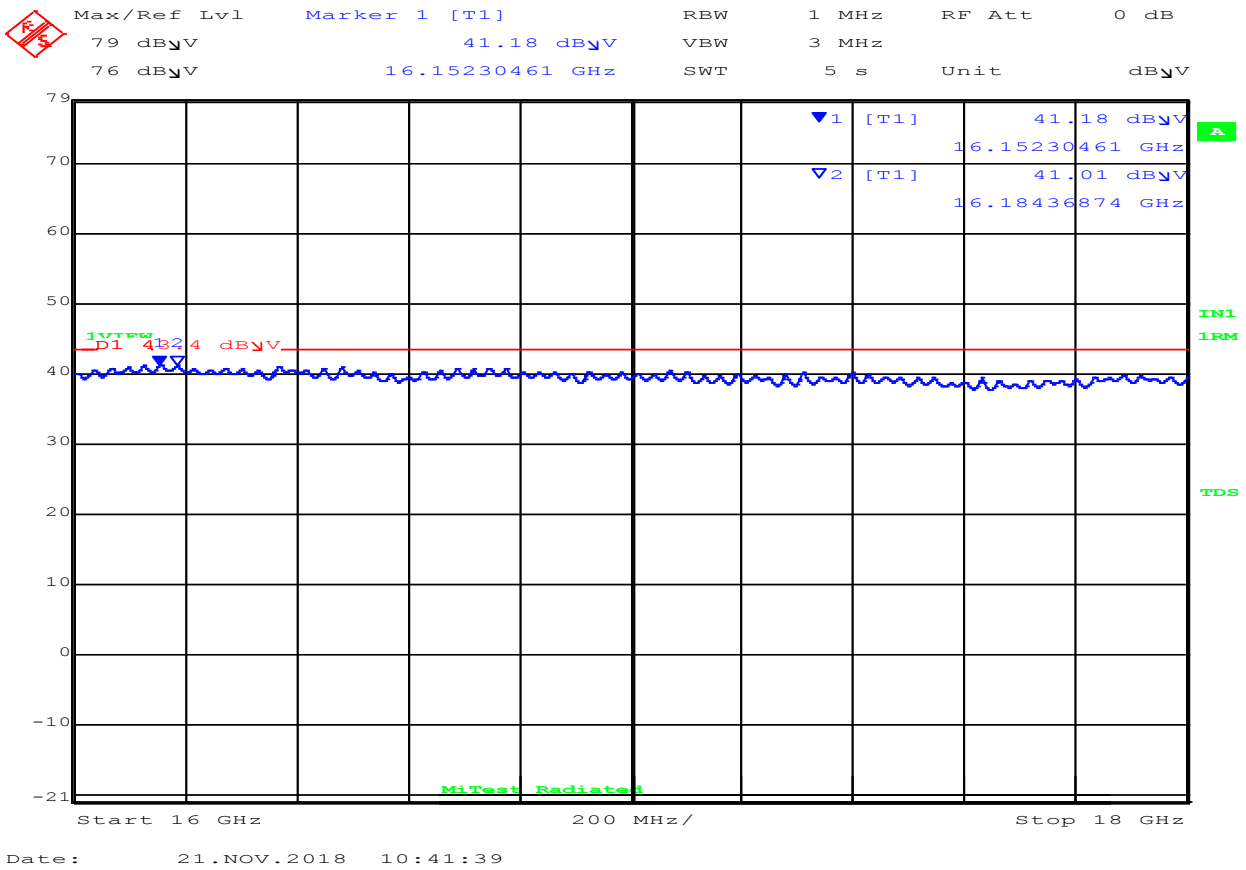
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.3	Average	Horizontal	150	0	43.4	-3.1	Pass
2	16184.4	40.1	Average	Horizontal	150	0	43.4	-3.3	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

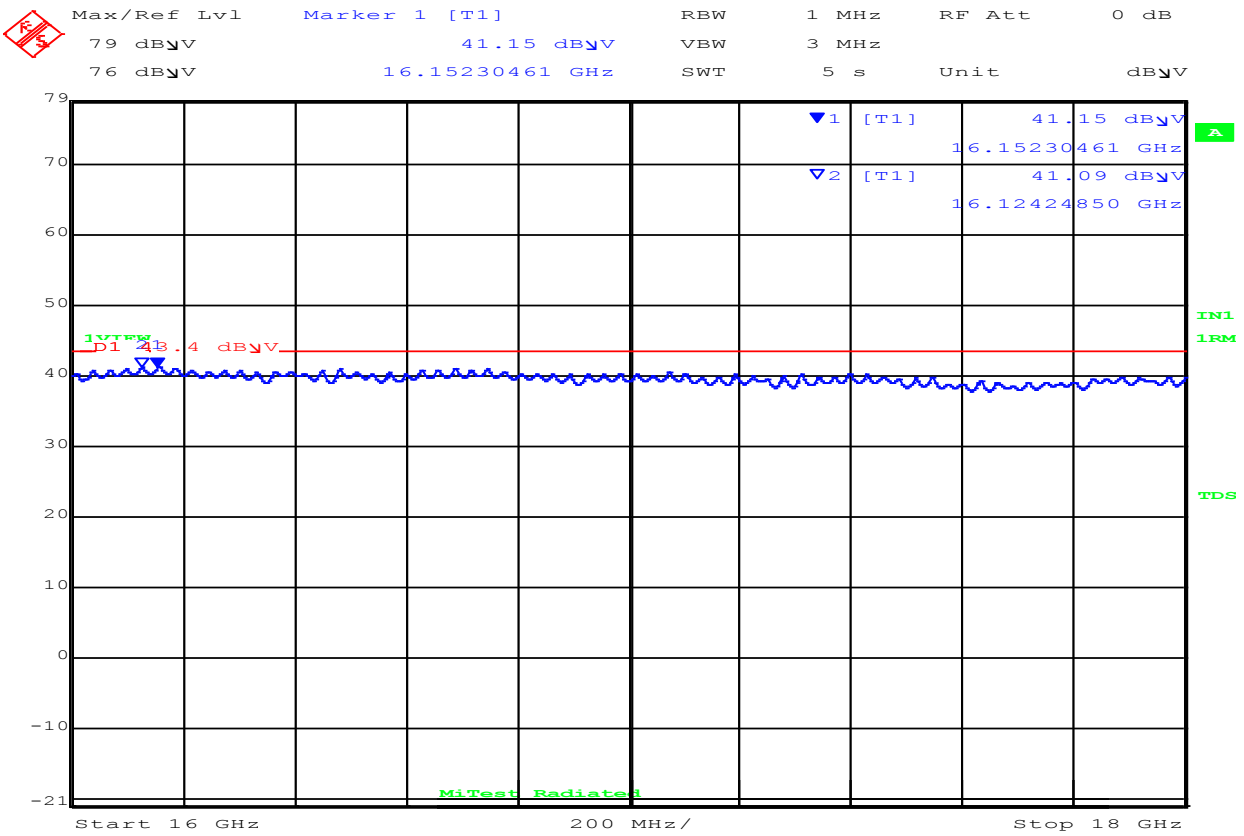
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 21.NOV.2018 10:36:53

16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.1	Average	Vertical	150	0	43.4	-3.3	Pass
2	16124.2	40.1	Average	Vertical	150	0	43.4	-3.3	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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8712 MHz

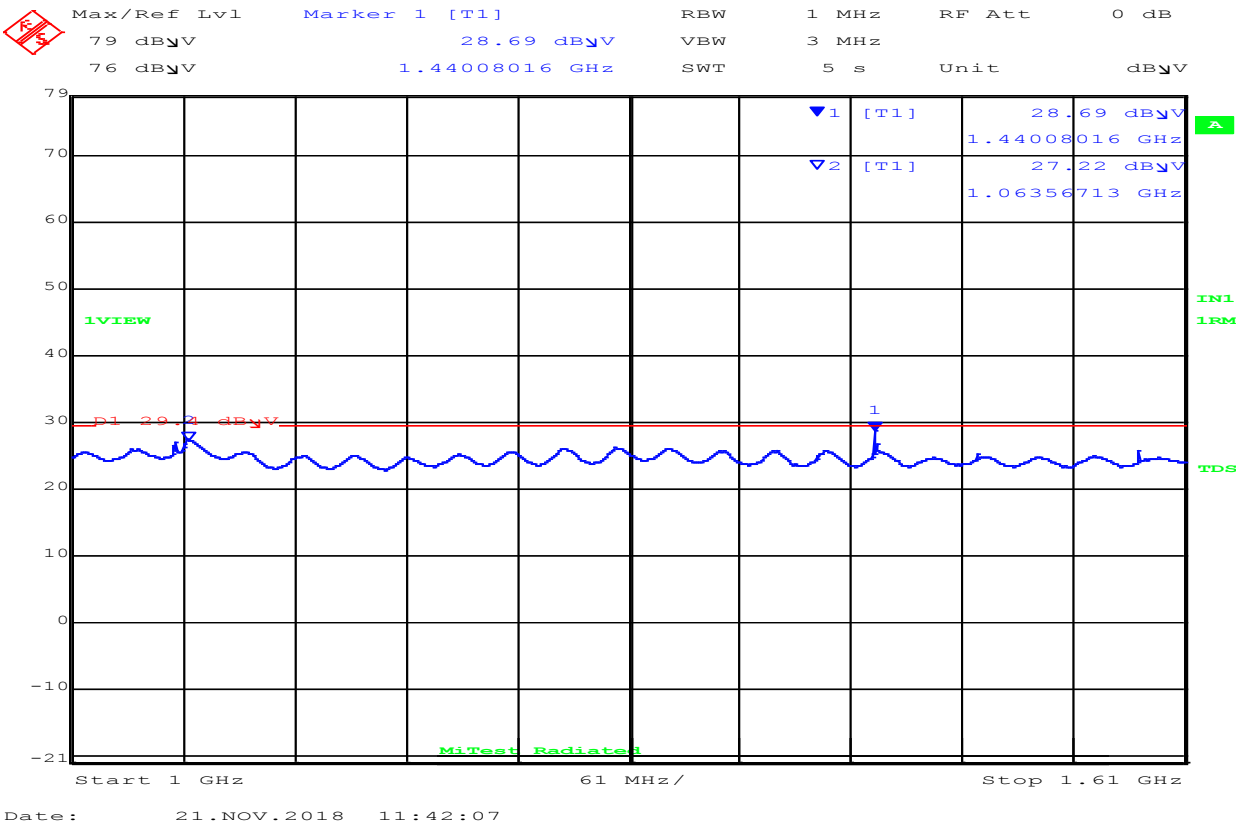
Equipment Configuration for Spurious Emissions 1-1.61 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	28.8	Average	Horizontal	150	0	29.4	-0.6	Pass
2	1063.6	25.6	Average	Horizontal	150	0	29.4	-3.8	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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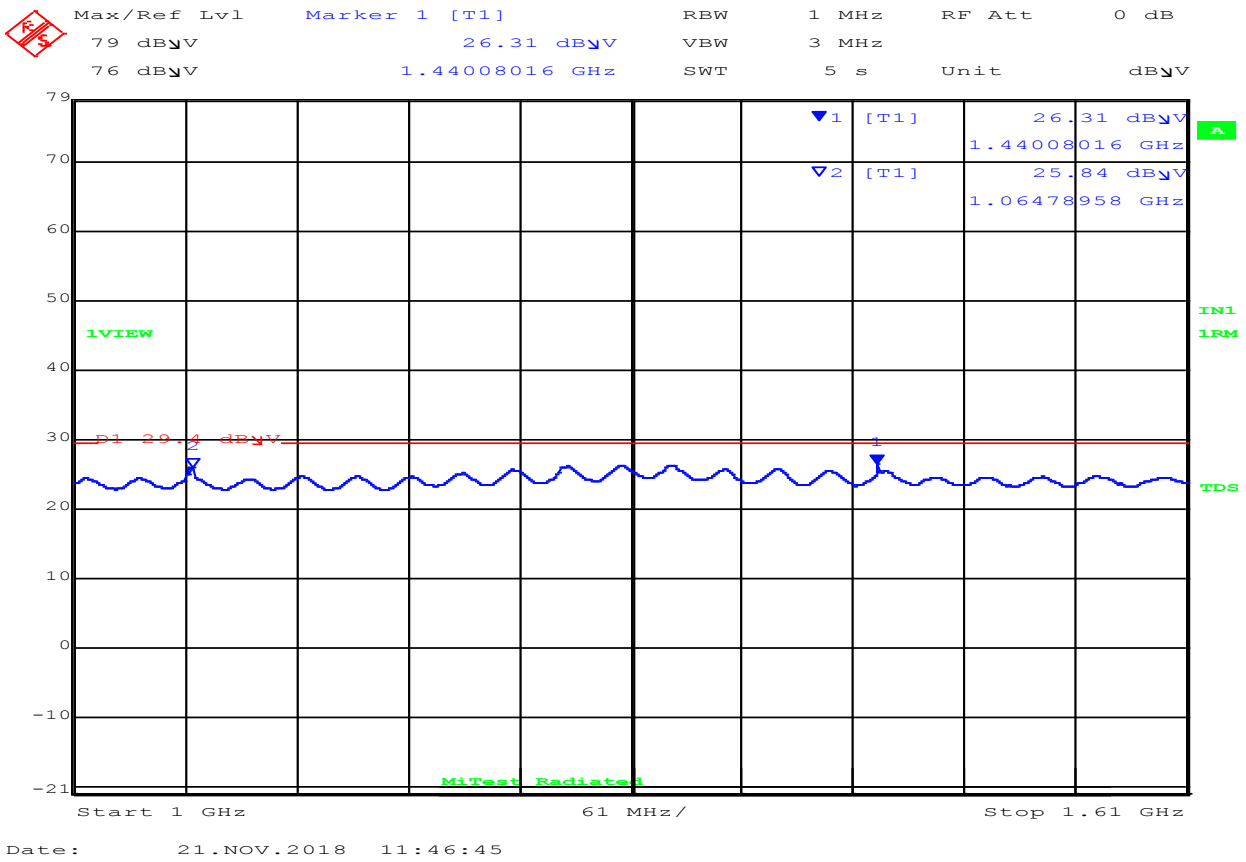
Equipment Configuration for Spurious Emissions 1-1.61 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.0-1.61GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1000.00– 1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1440.1	25.2	Average	Vertical	150	0	29.4	-4.2	Pass
2	1064.8	23.9	Average	Vertical	150	0	29.4	-5.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

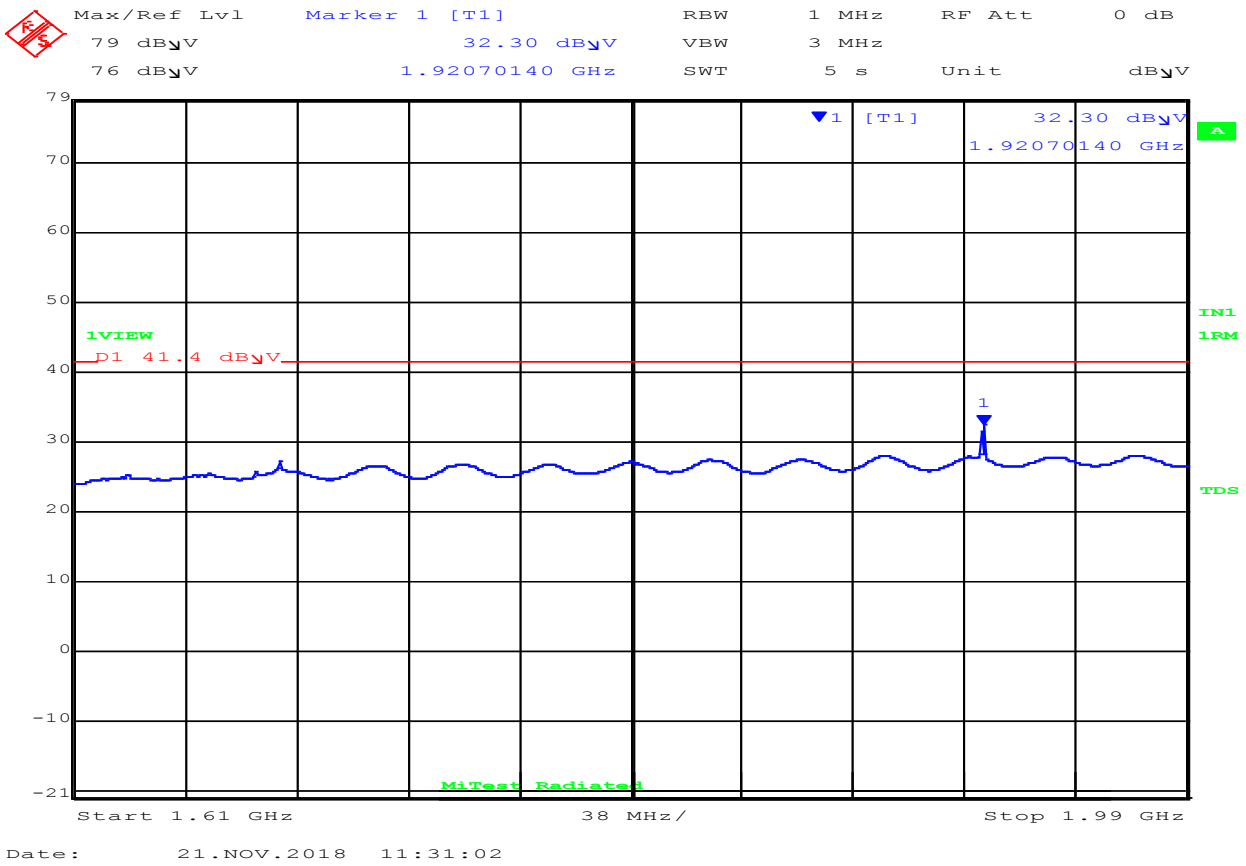
Equipment Configuration for Spurious Emissions 1.61 - 1.99 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

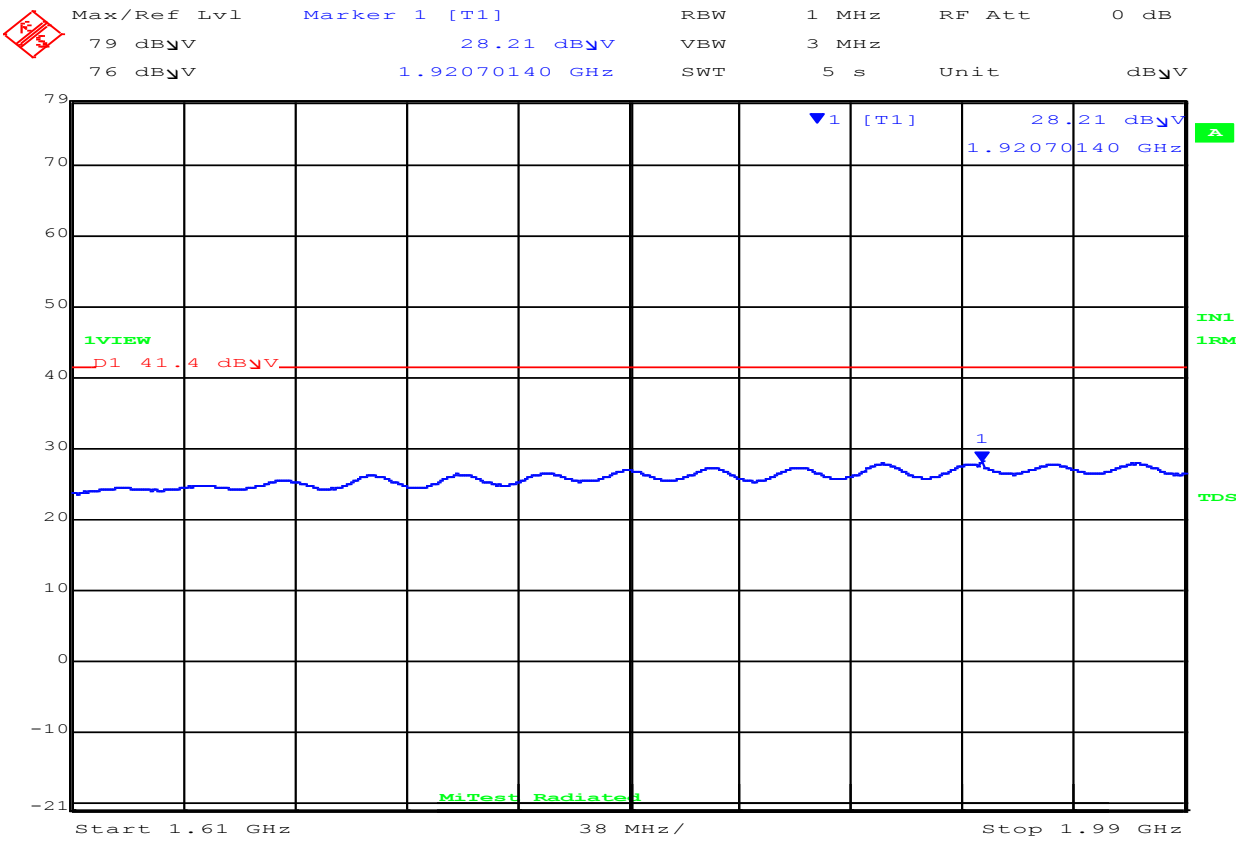
Equipment Configuration for Spurious Emissions 1.61 – 1.99 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.61-1.99GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1610.00 – 1990.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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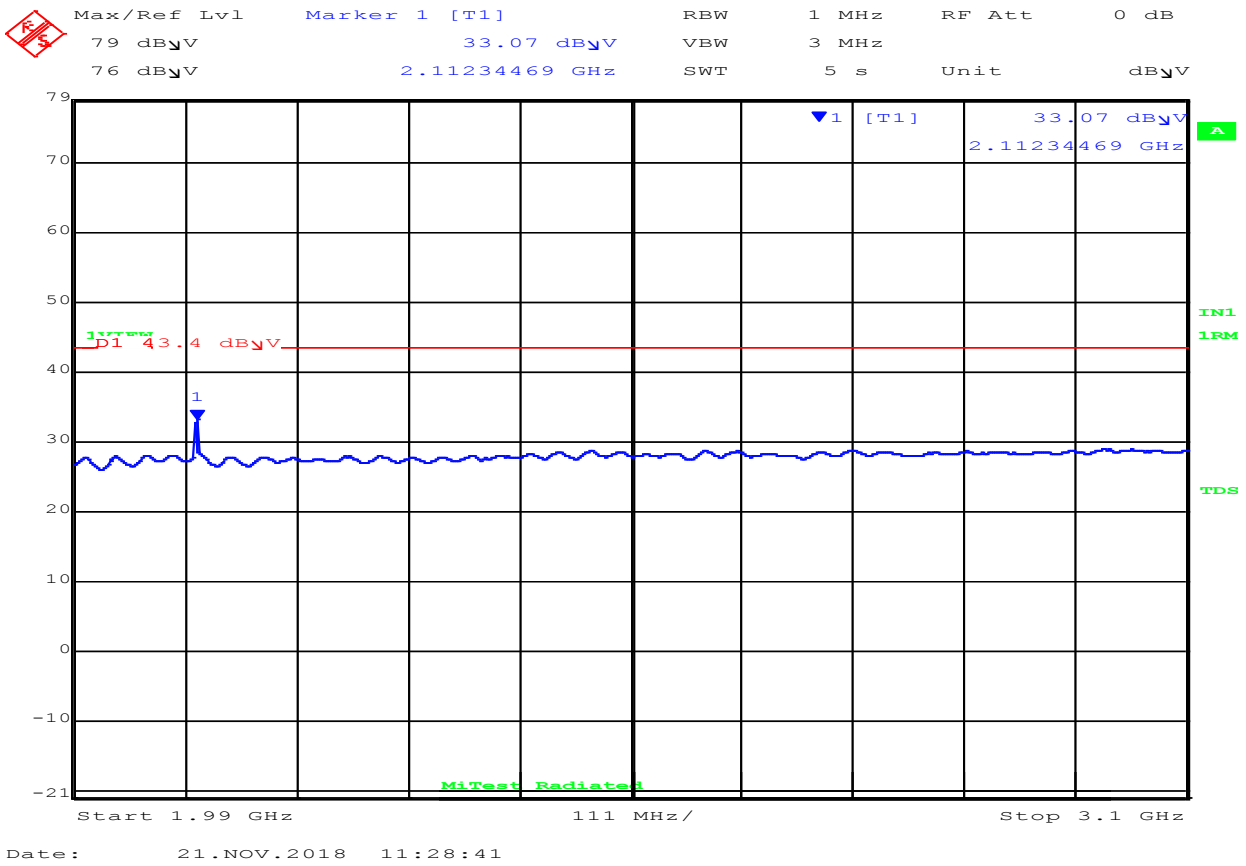
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

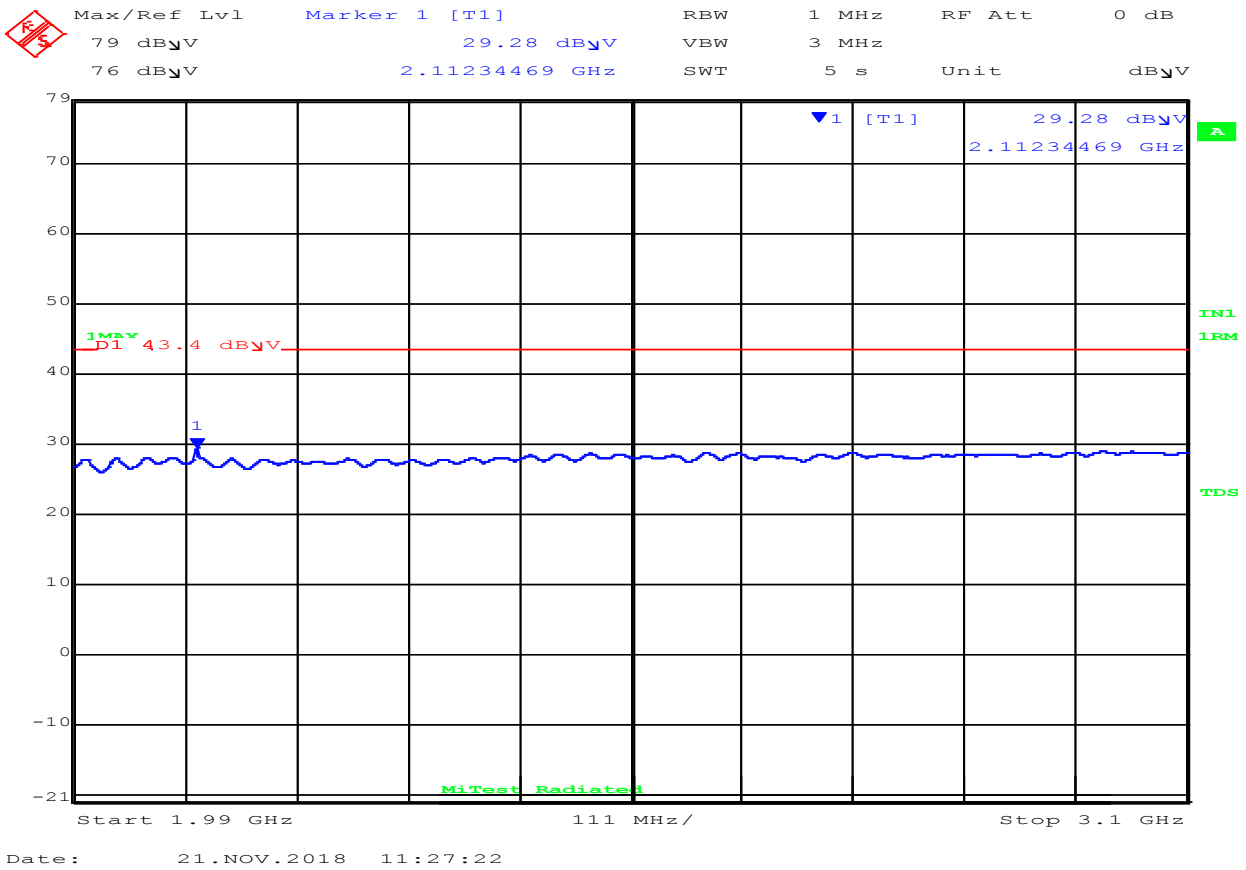
Equipment Configuration for Spurious Emissions 1.99 – 3.1 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 1.99-3.1GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1990.00 – 3100.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

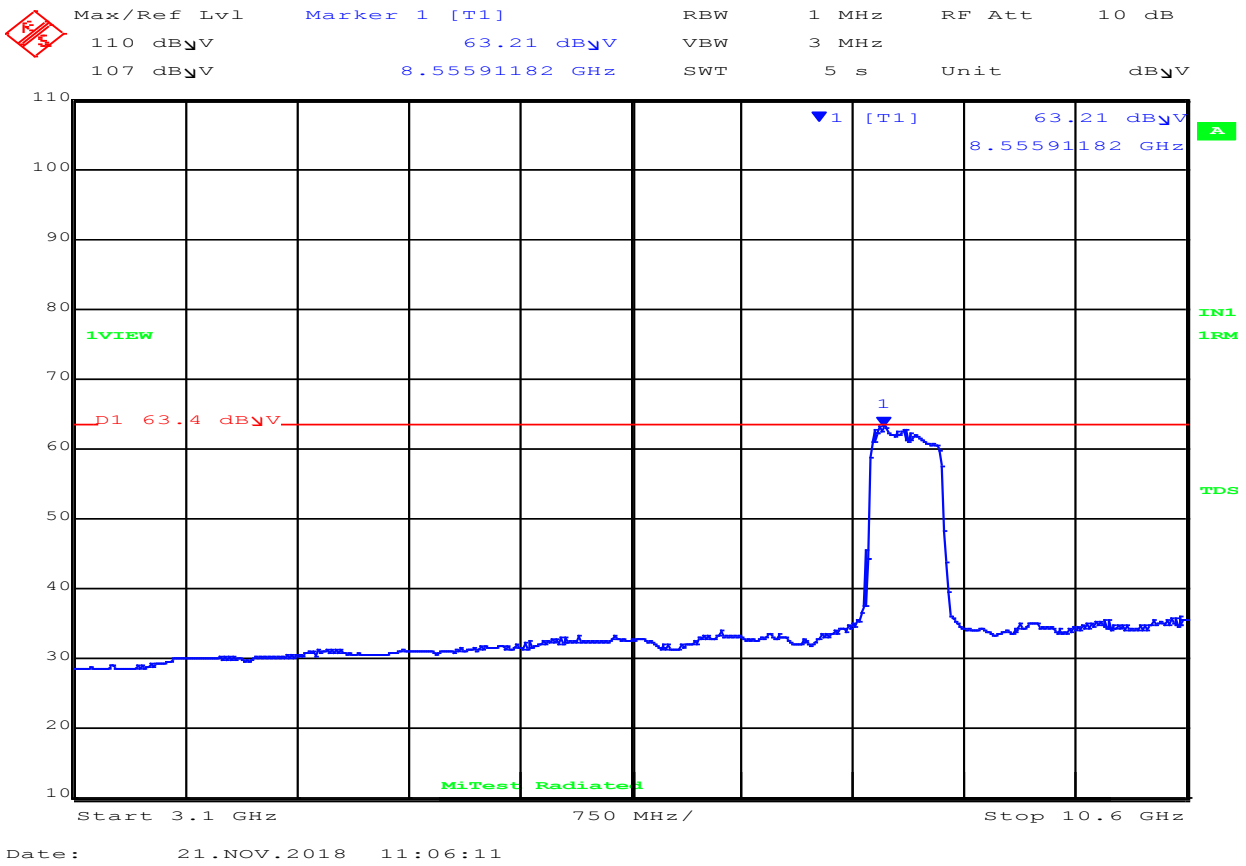
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 21.NOV.2018 11:06:11

3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	8555.9	62.9	Average	Horizontal	150	0	63.4	-0.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

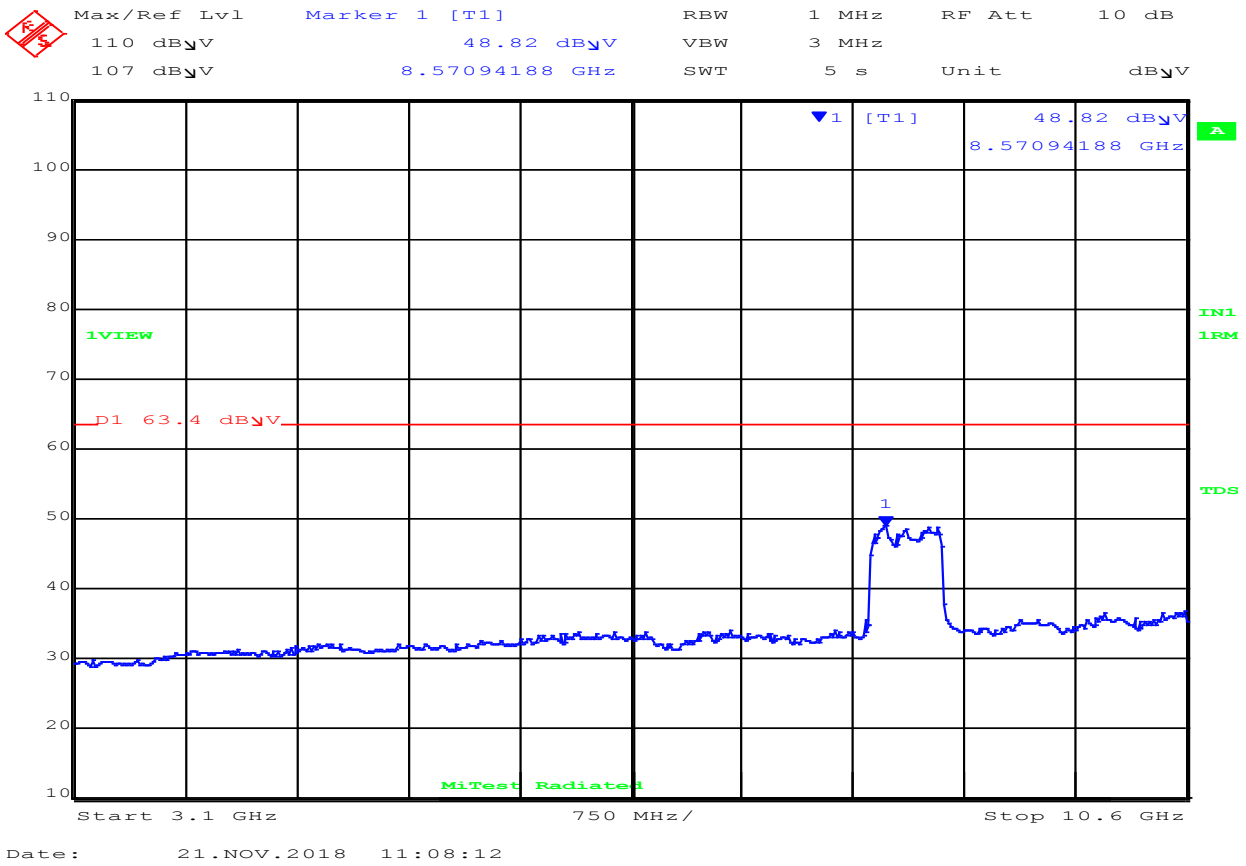
Equipment Configuration for Spurious Emissions 3.1 – 10.6 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 3.1-10.6GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



3100.00 - 10600.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

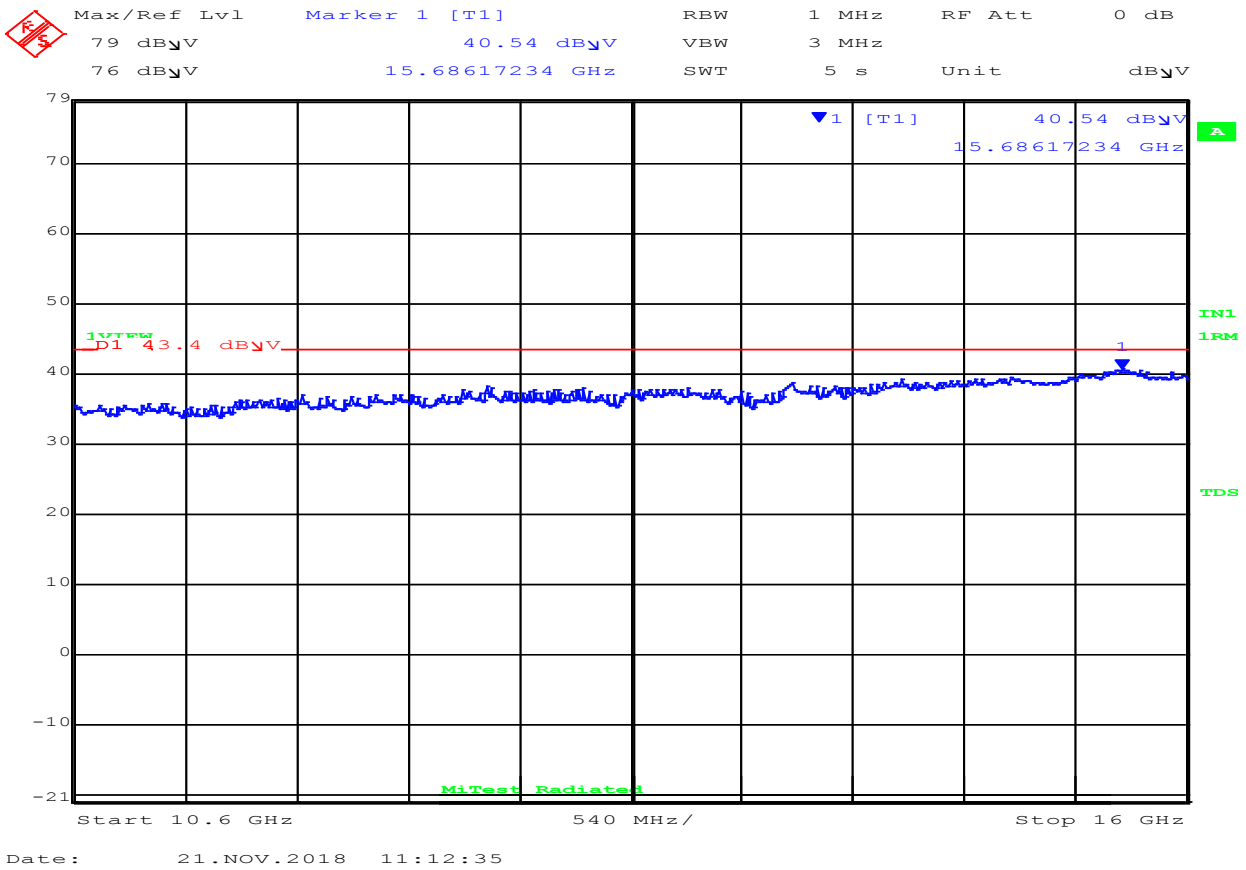
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.6	Average	Horizontal	150	0	43.4	-3.80	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

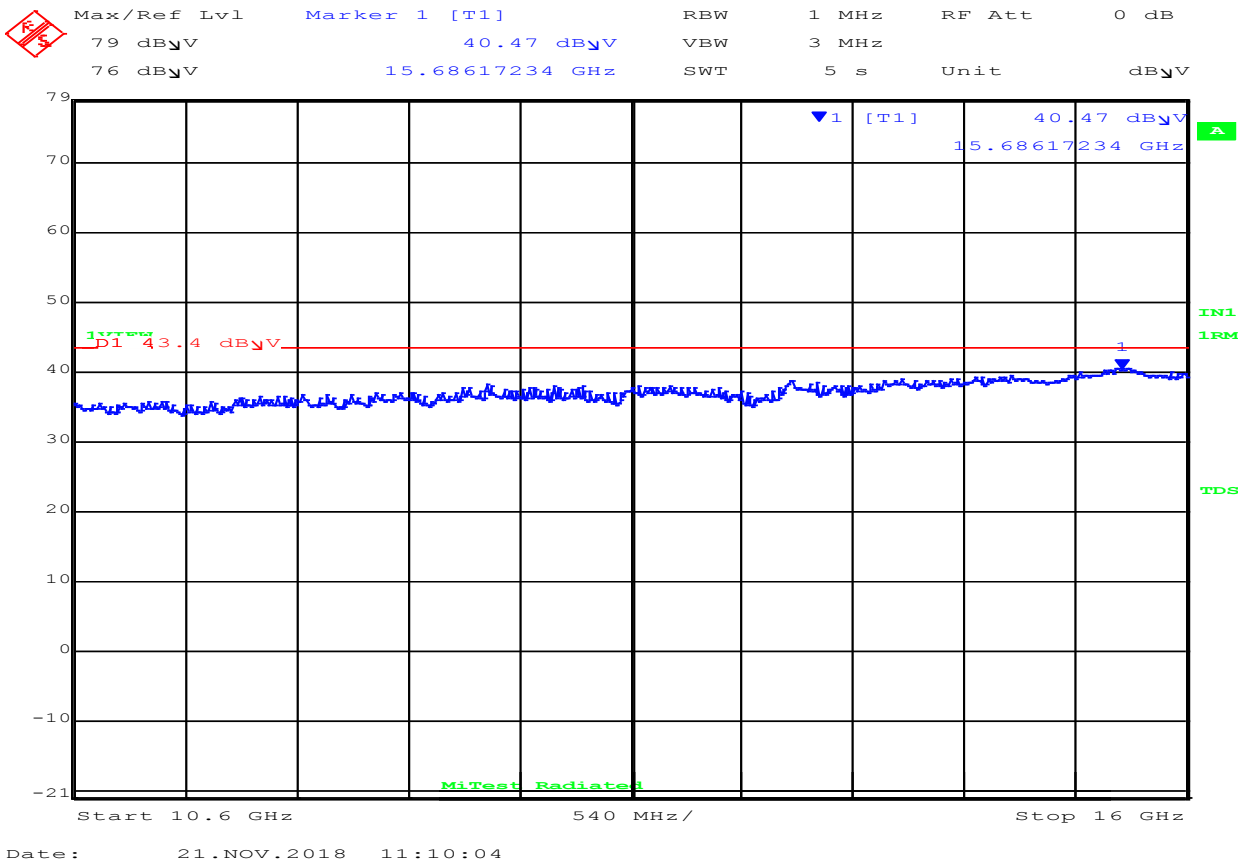
Equipment Configuration for Spurious Emissions 10.6 – 16.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 10.6-16GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 21.NOV.2018 11:10:04

10600.00 – 16000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	15686.2	39.6	Average	Vertical	150	0	43.4	-3.8	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

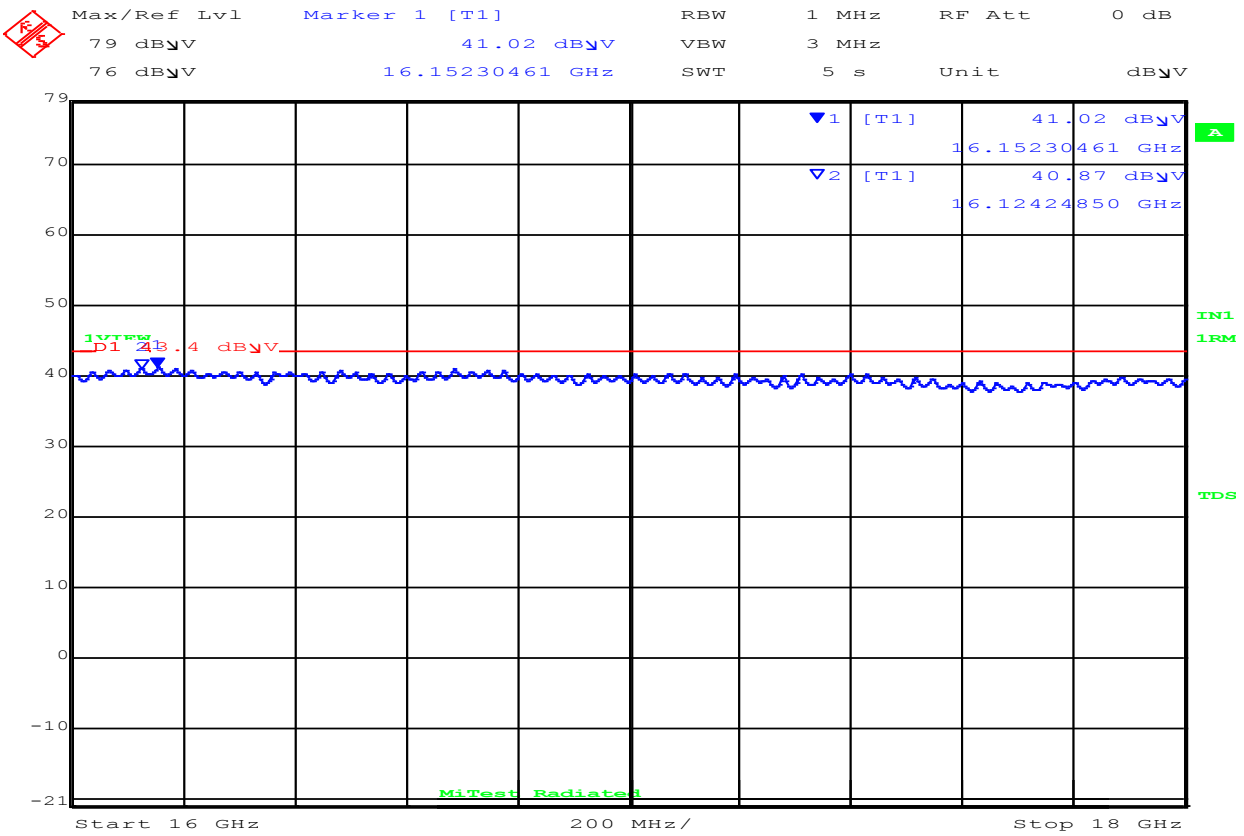
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 21.NOV.2018 11:14:09

16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.1	Average	Horizontal	150	0	43.4	-3.3	Pass
2	16124.2	39.9	Average	Horizontal	150	0	43.4	-3.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

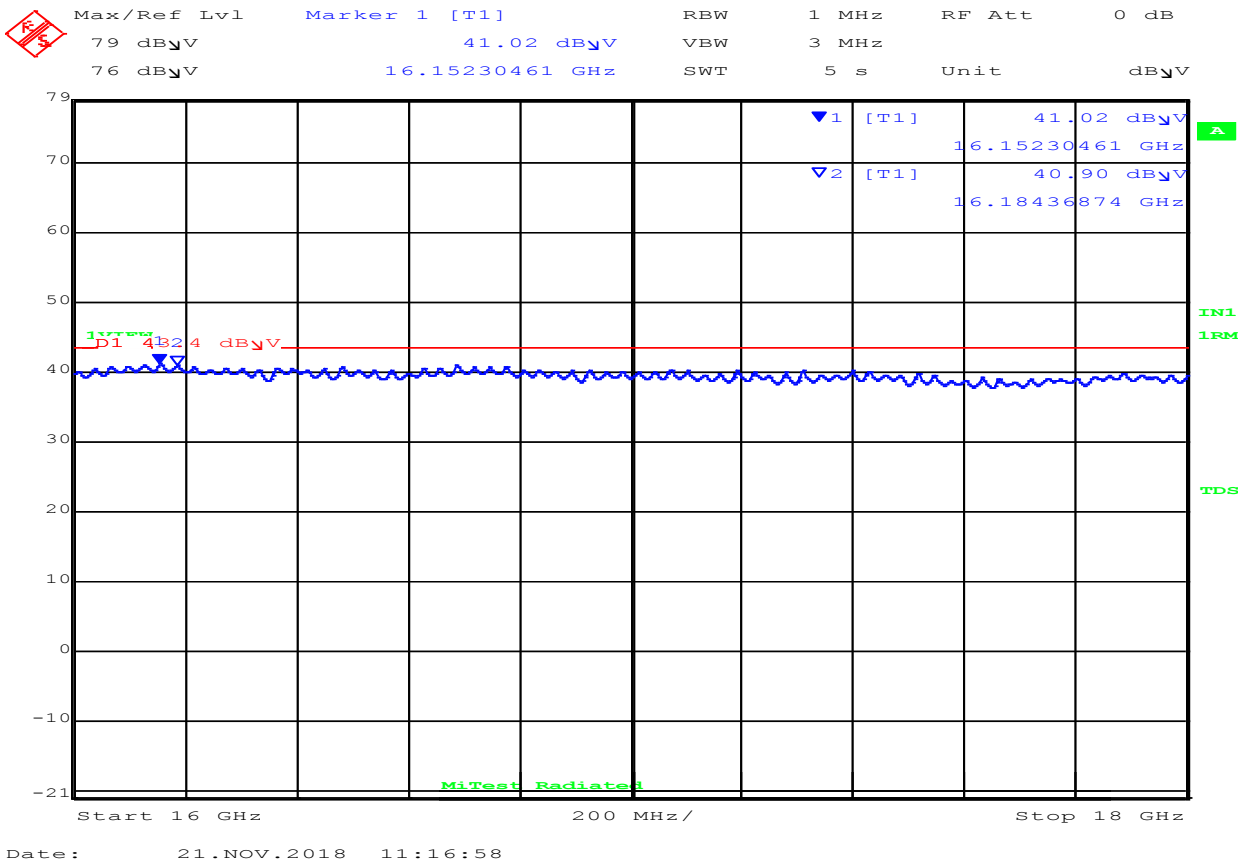
Equipment Configuration for Spurious Emissions 16.0 – 18.0 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS 16-18GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



16000.00 – 18000.00 GHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	16152.3	40.1	Average	Horizontal	150	0	43.4	-3.3	Pass
2	16184.4	39.9	Average	Horizontal	150	0	43.4	-3.5	Pass

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

9.4.2. GPS Band Emissions

9.4.2.1. Commander AL5930

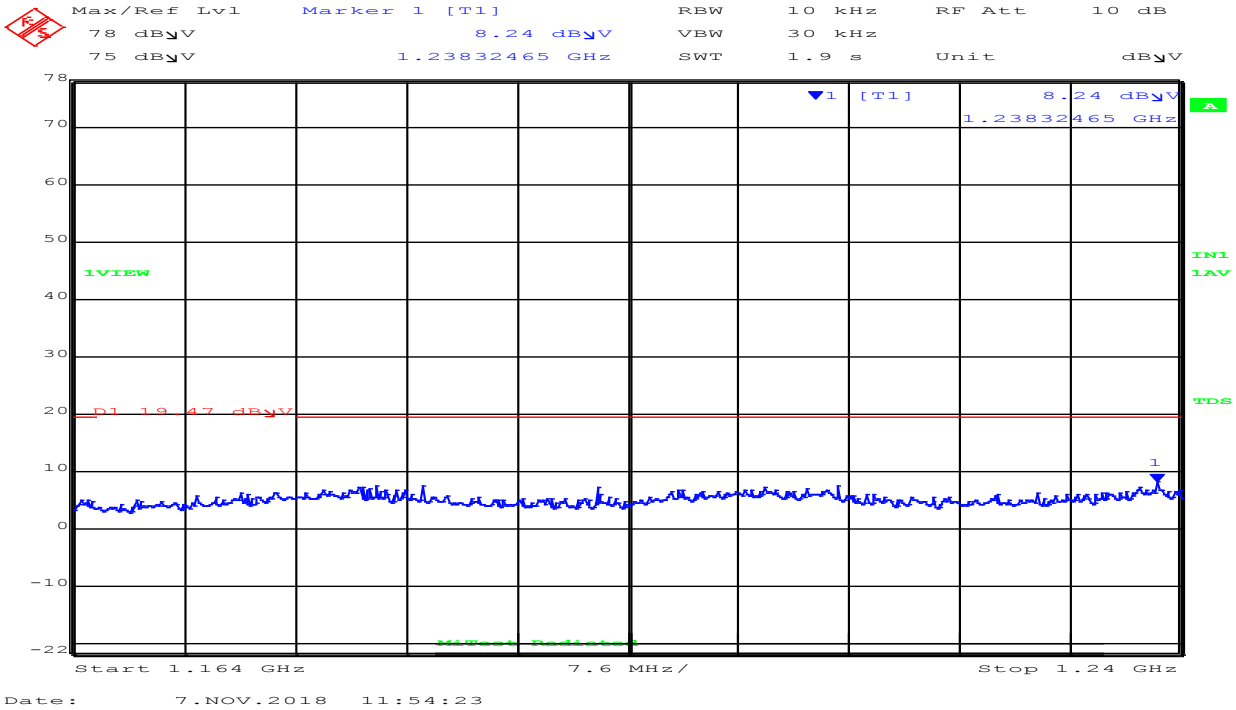
3432 MHz

Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

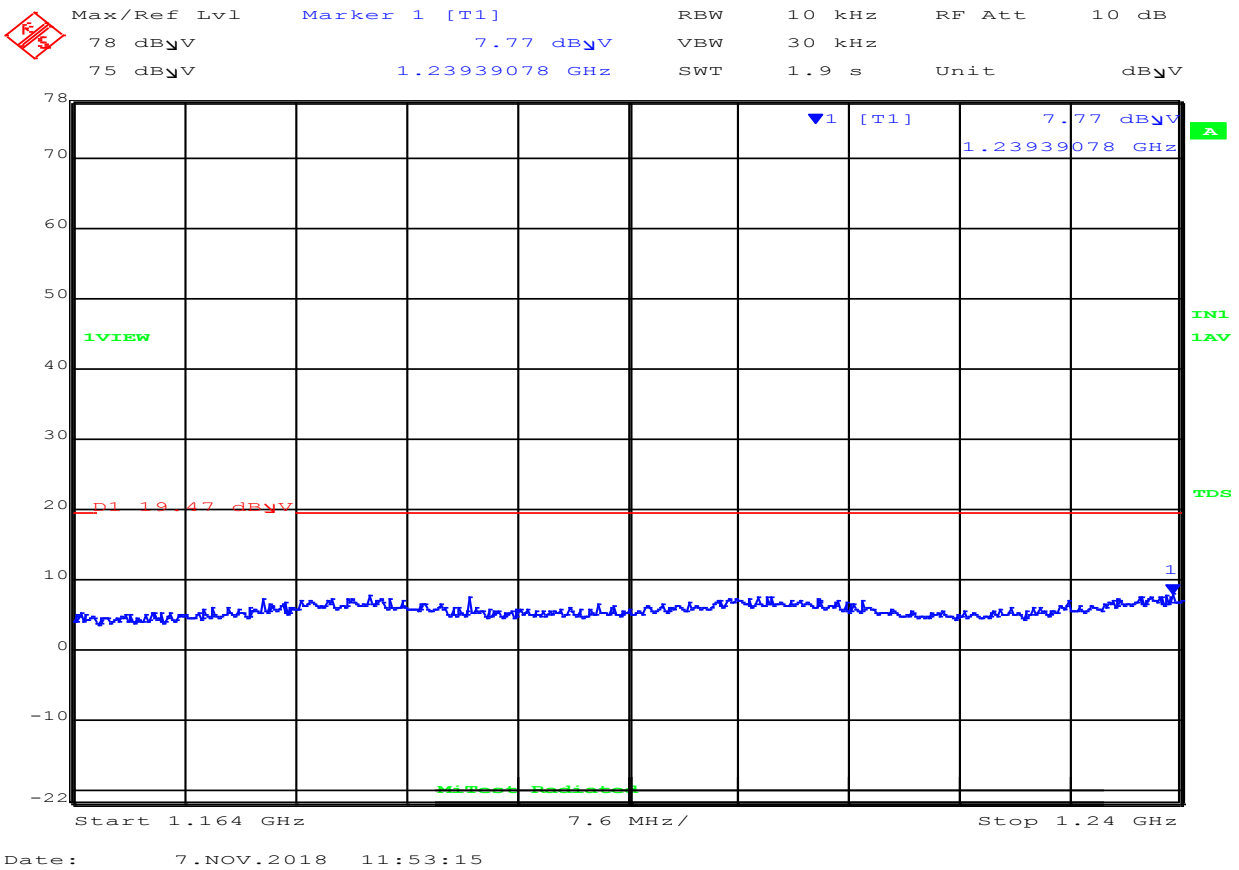
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

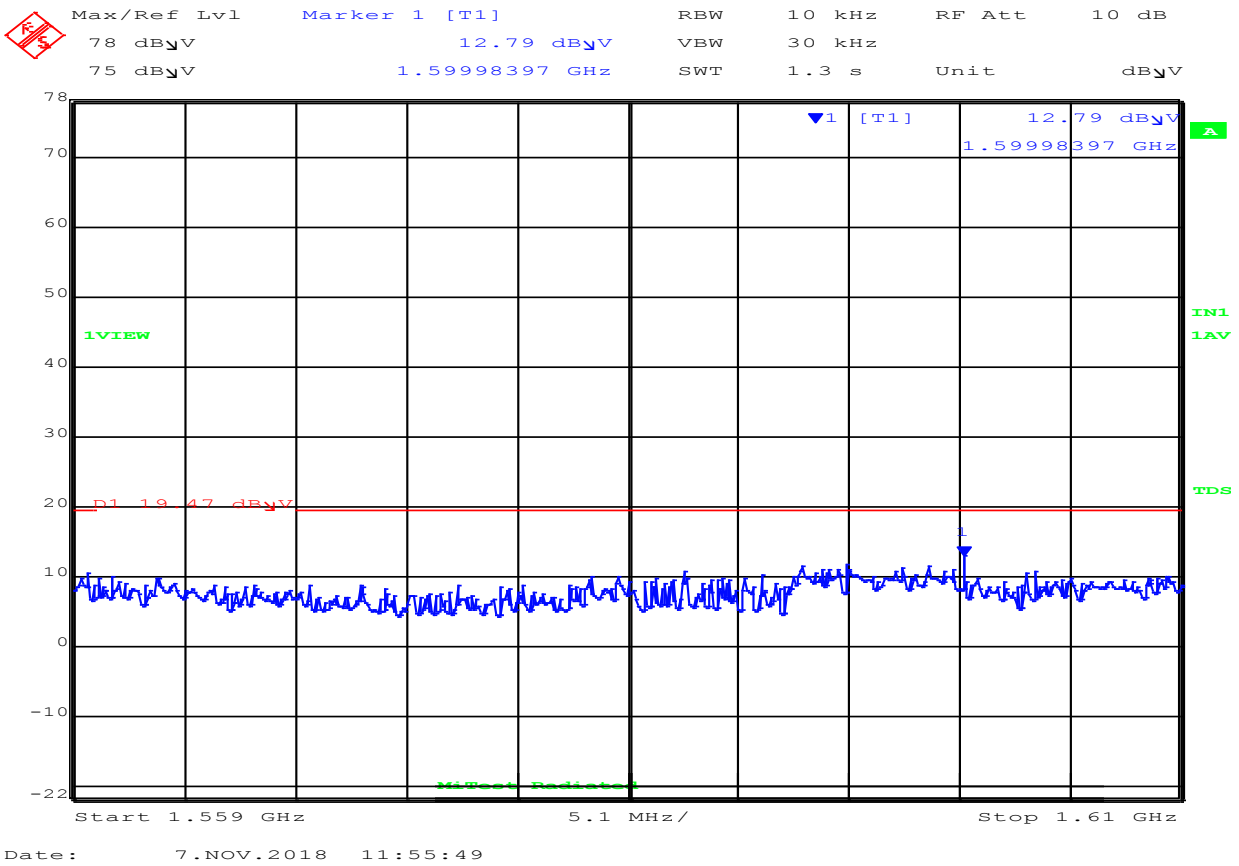
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 11:55:49

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

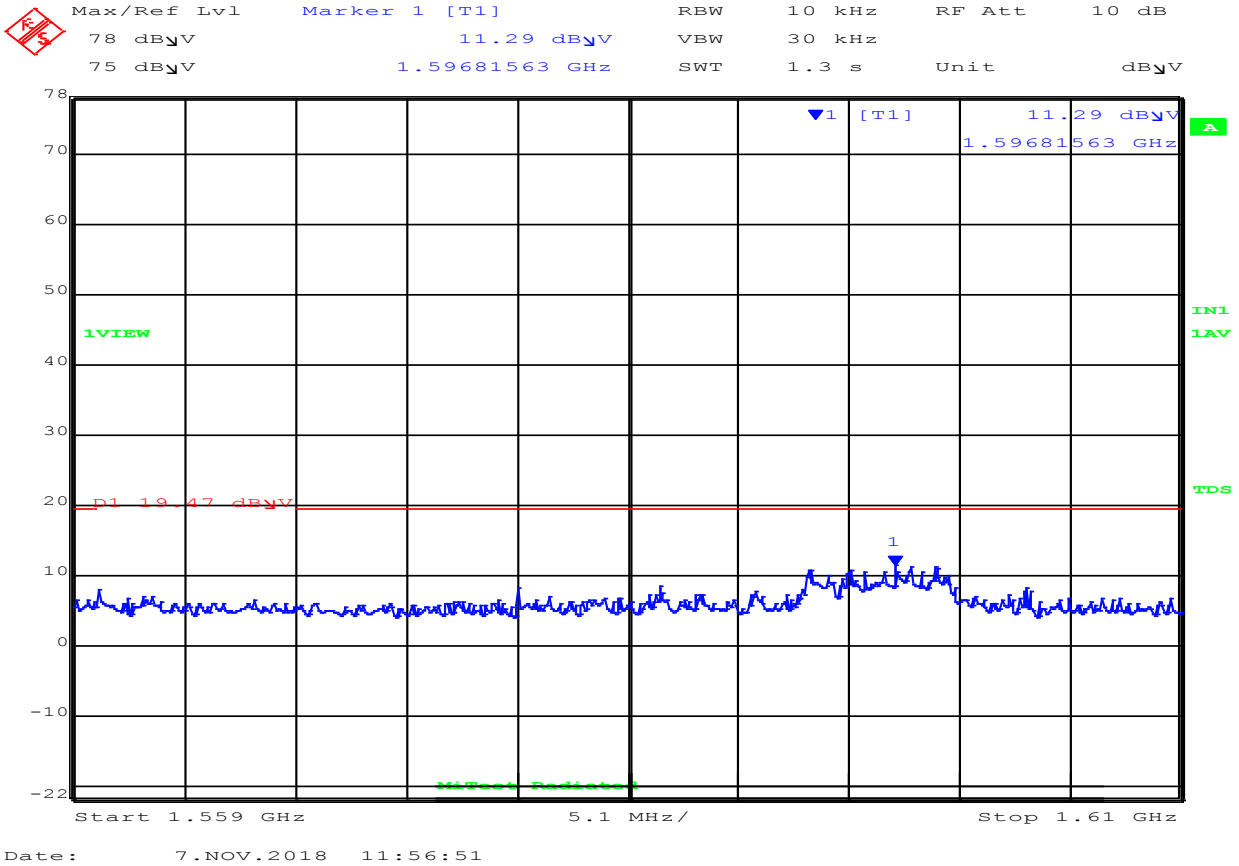
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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3960 MHz

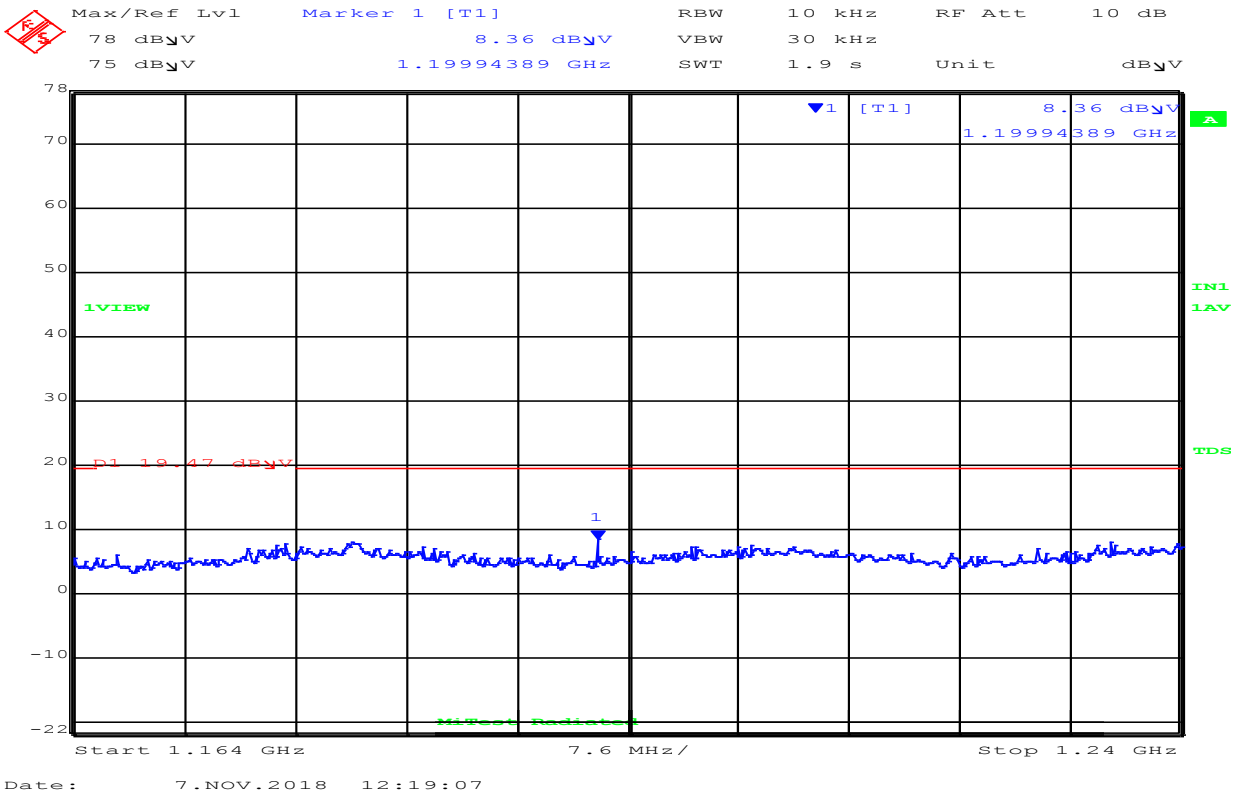
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

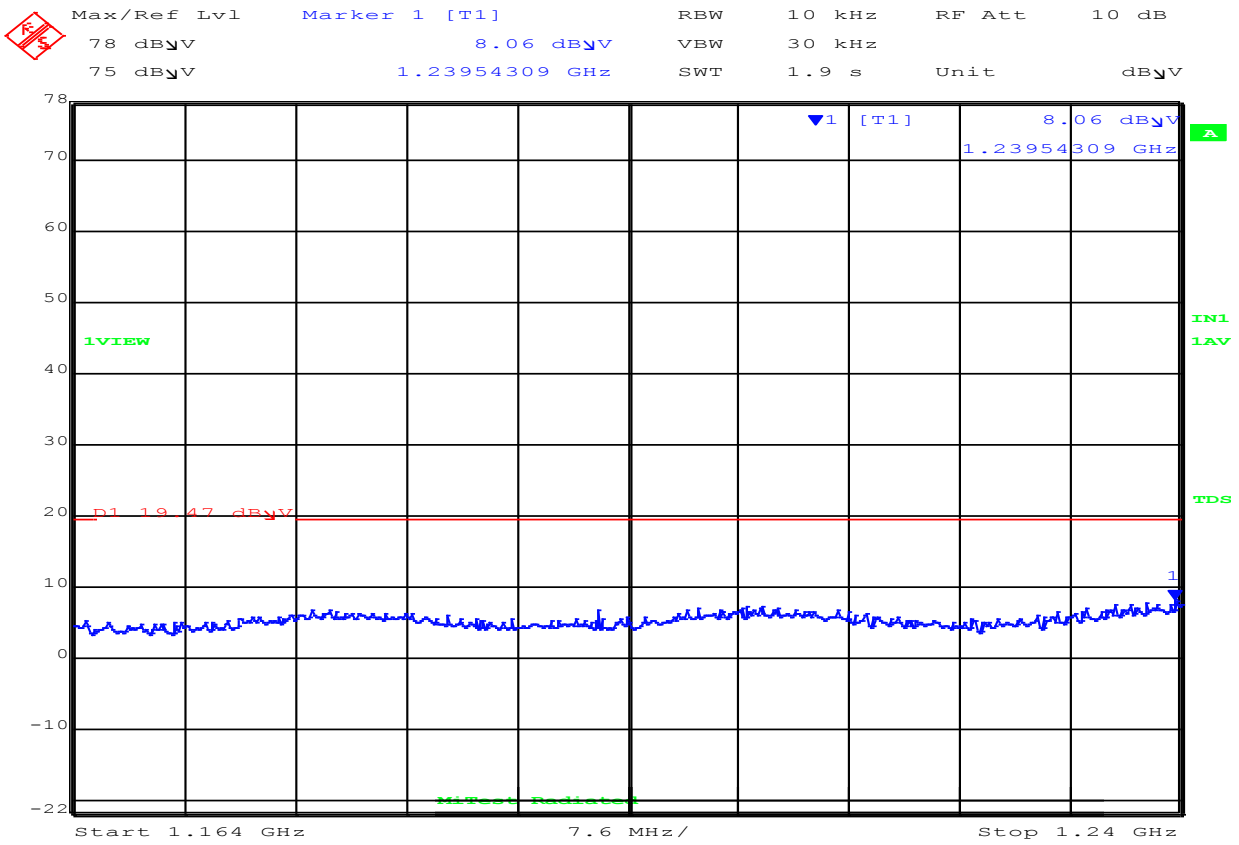
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 12:20:36

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

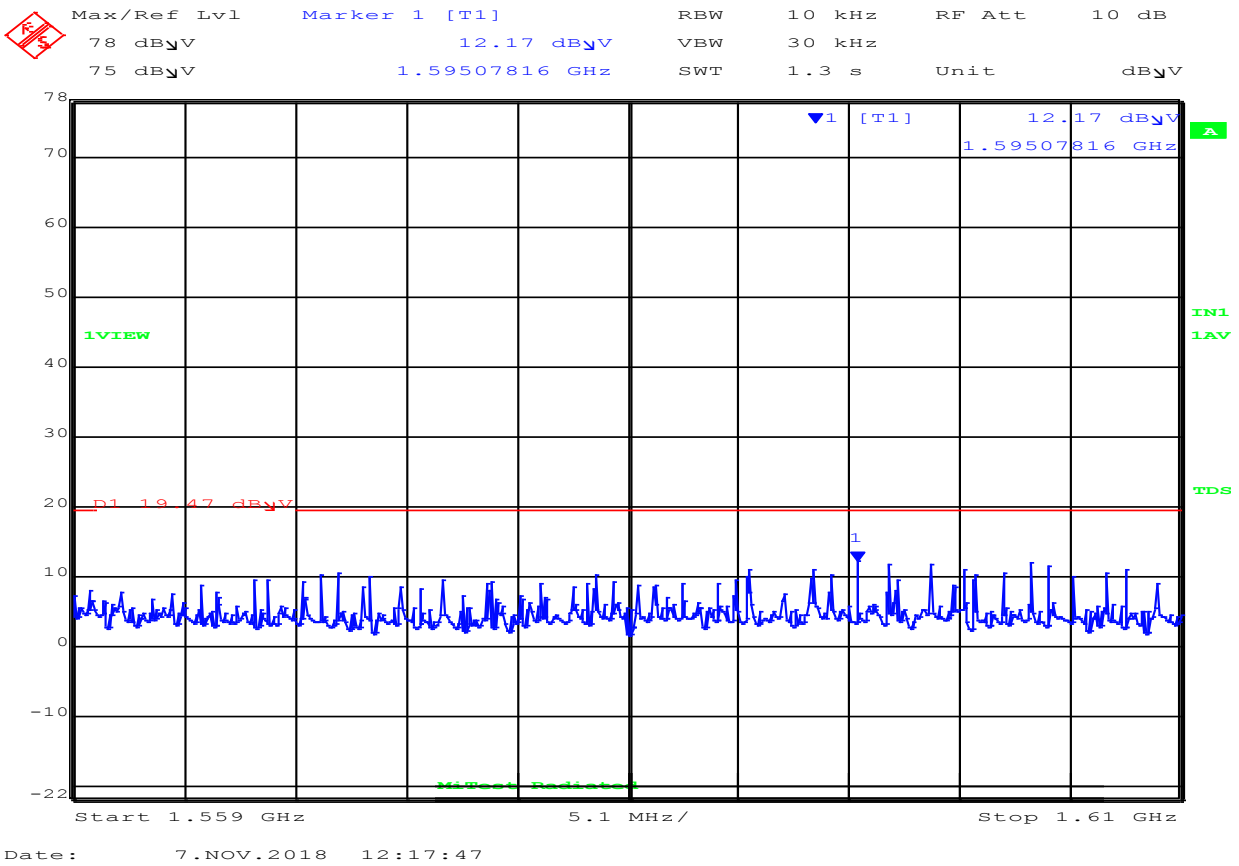
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

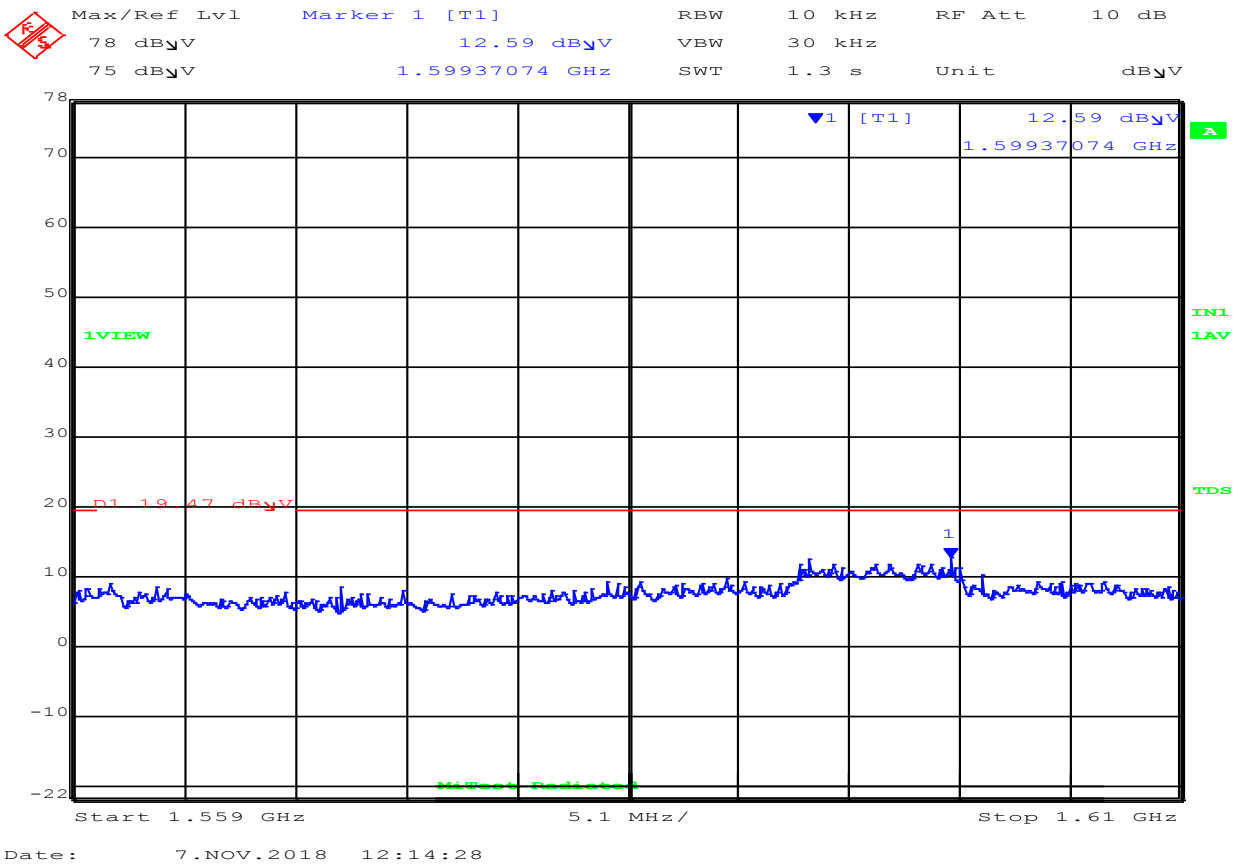
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 12:14:28

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

4488 MHz

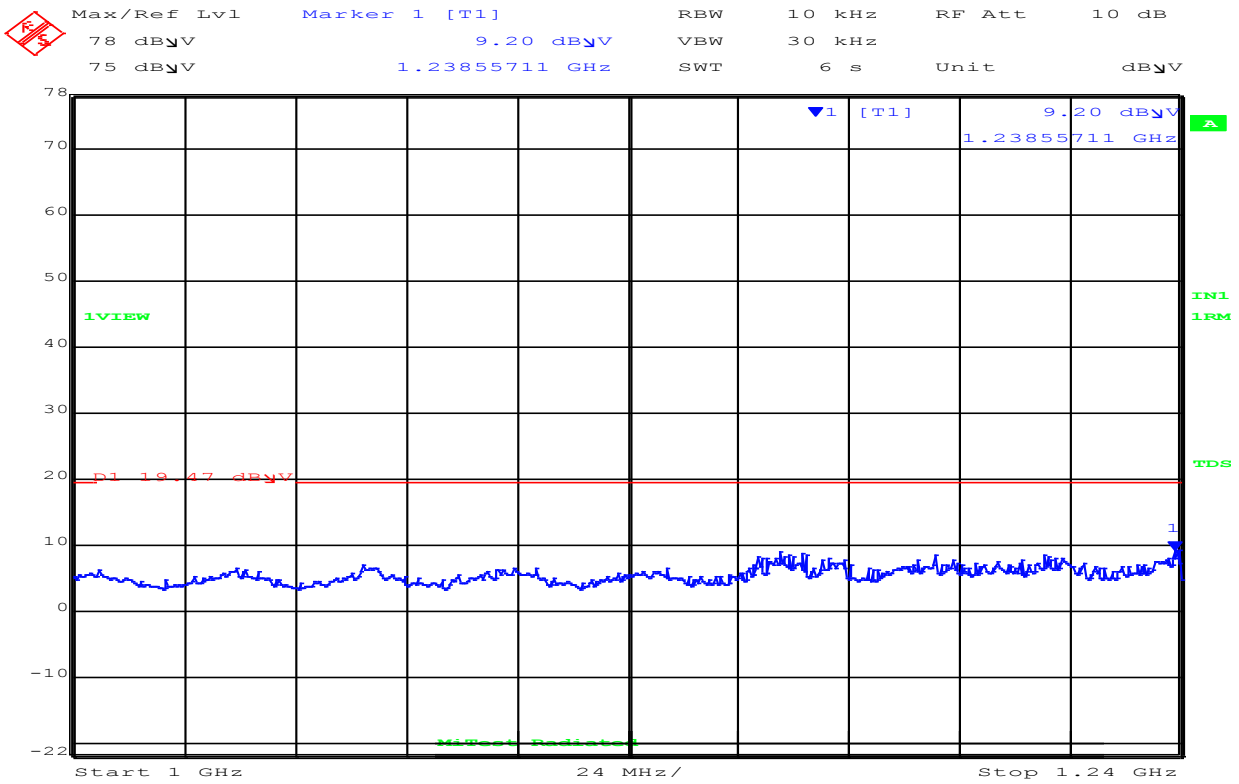
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 4448 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

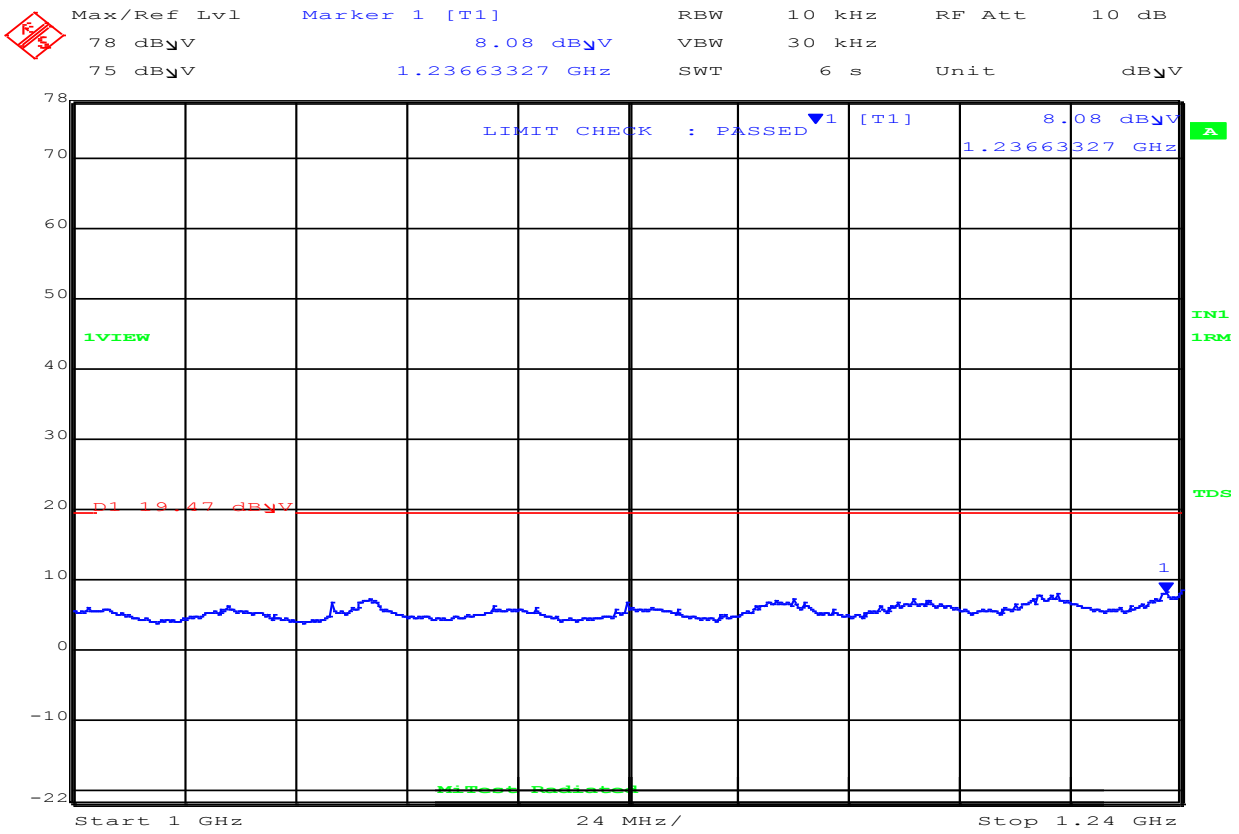
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 4448 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 13:35:29

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

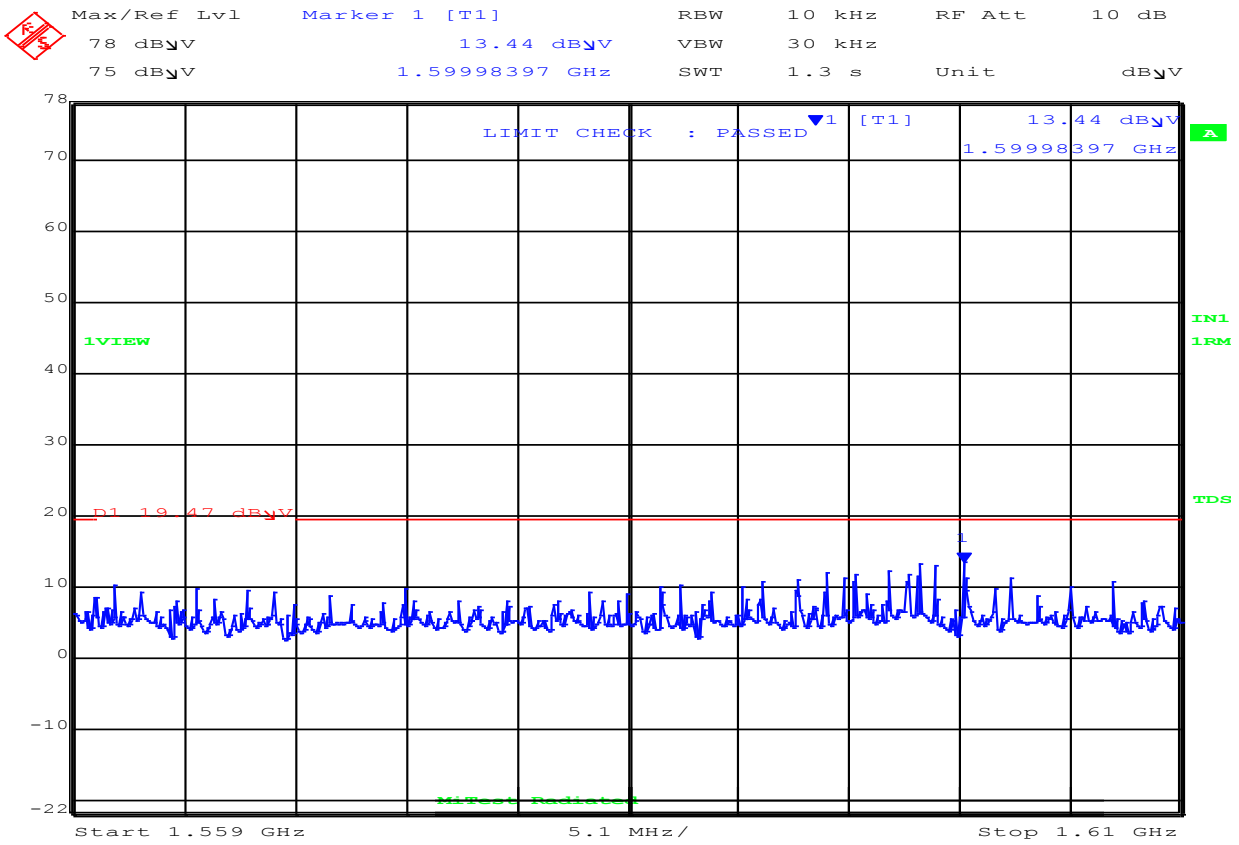
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 4448 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 13:40:11

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	1.9*	Average	Horizontal	150	0	19.47	-17.6	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

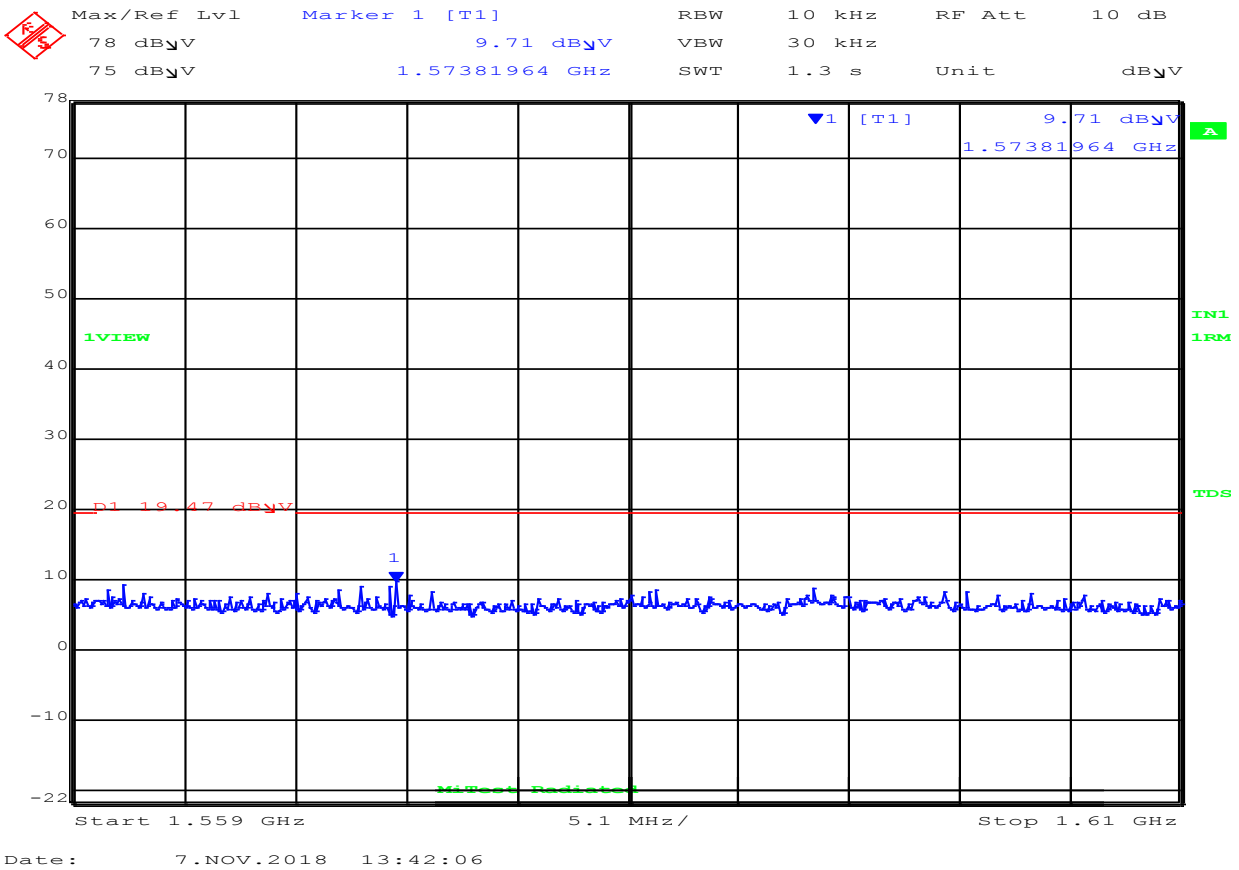
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 4448 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

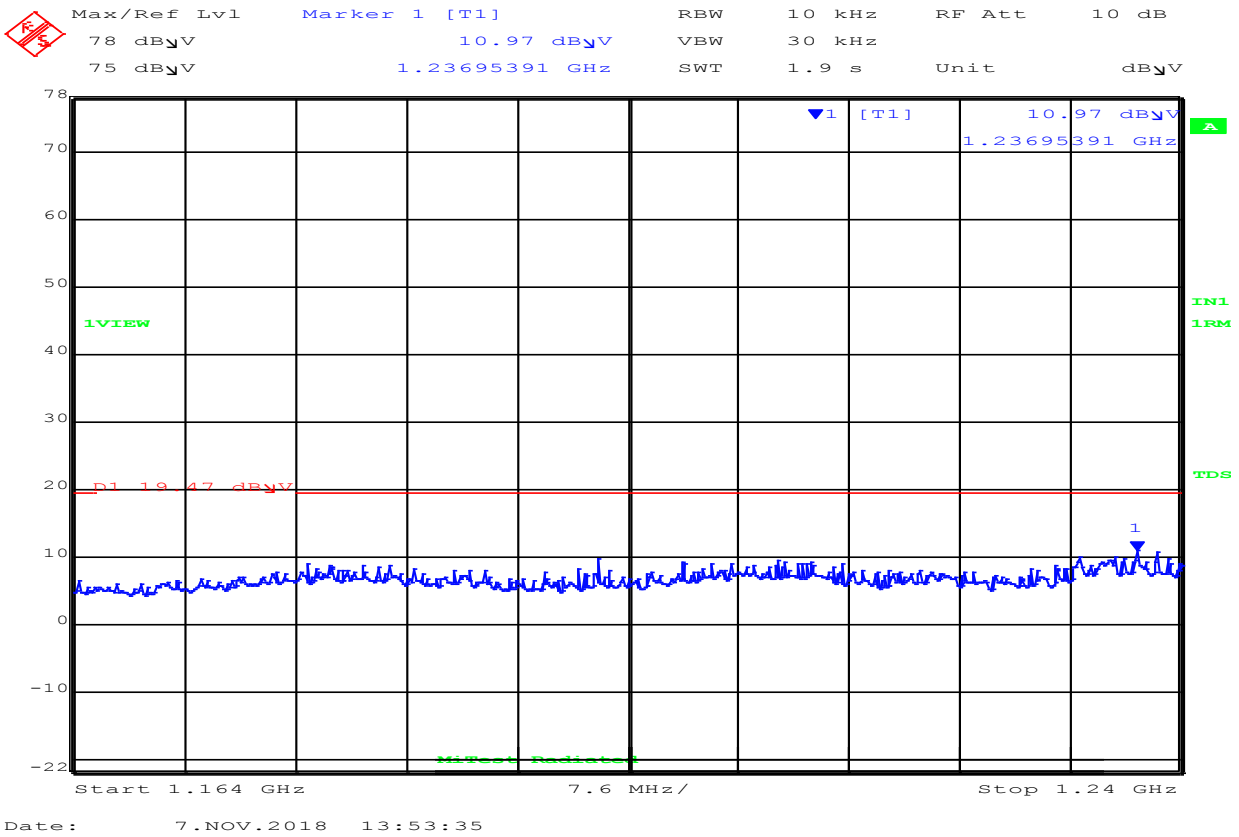
6600 MHz

Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

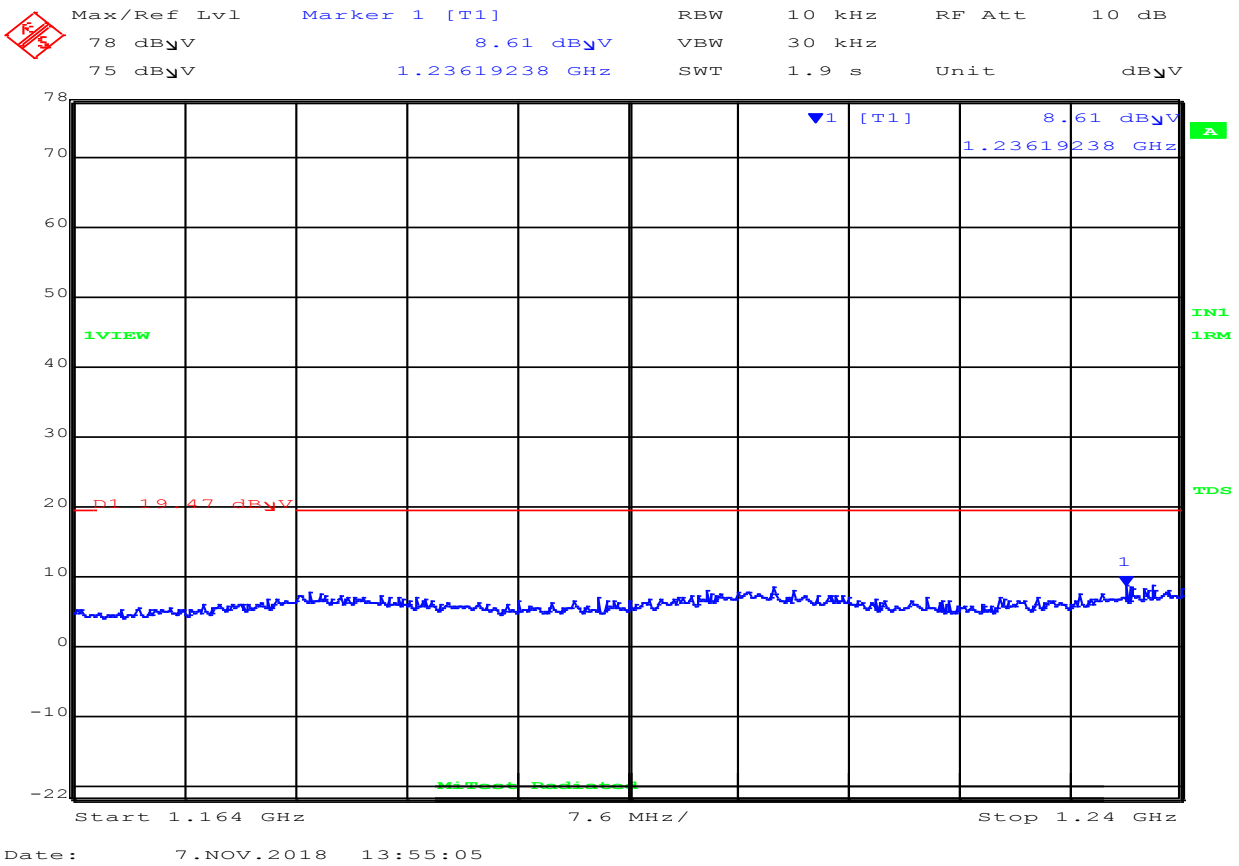
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

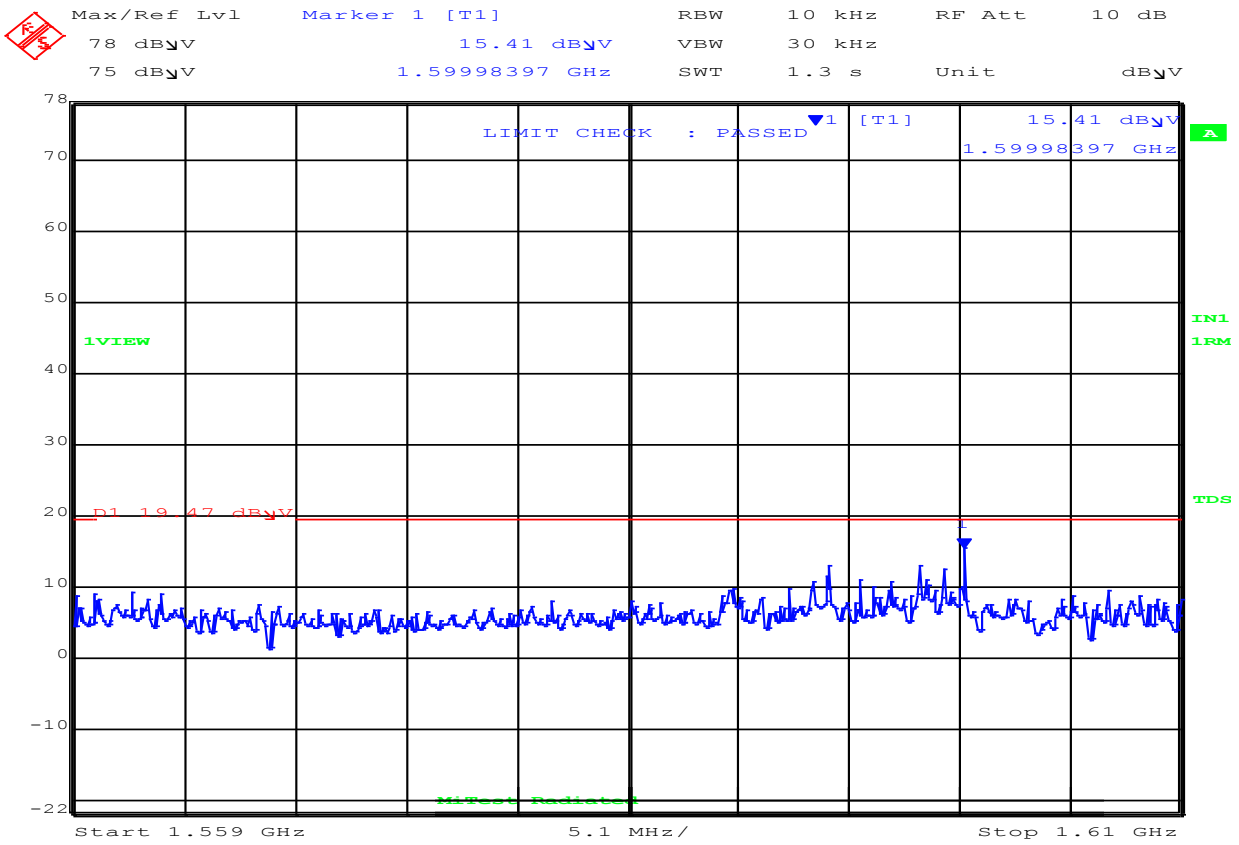
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 13:49:17

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	2.0*	Average	Horizontal	150	0	19.47	-17.5	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

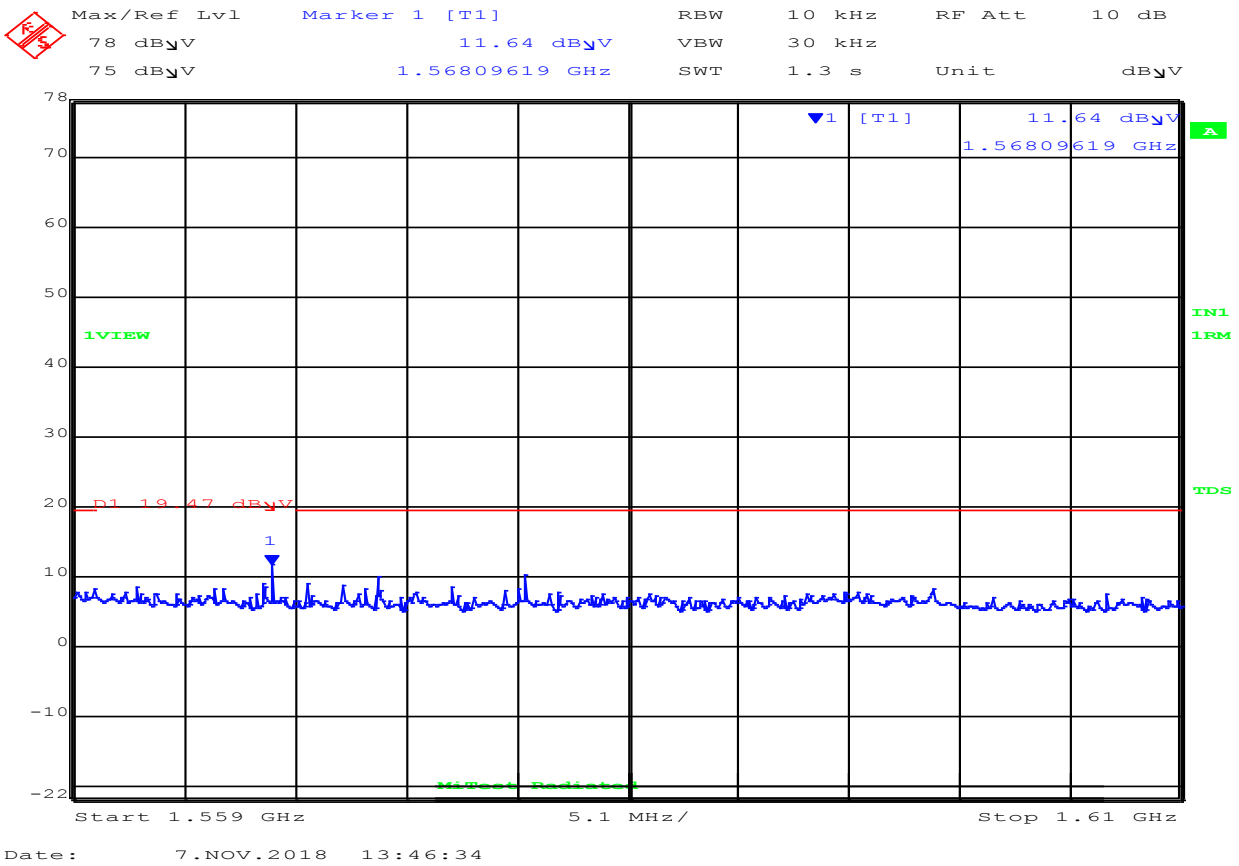
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

7128 MHz

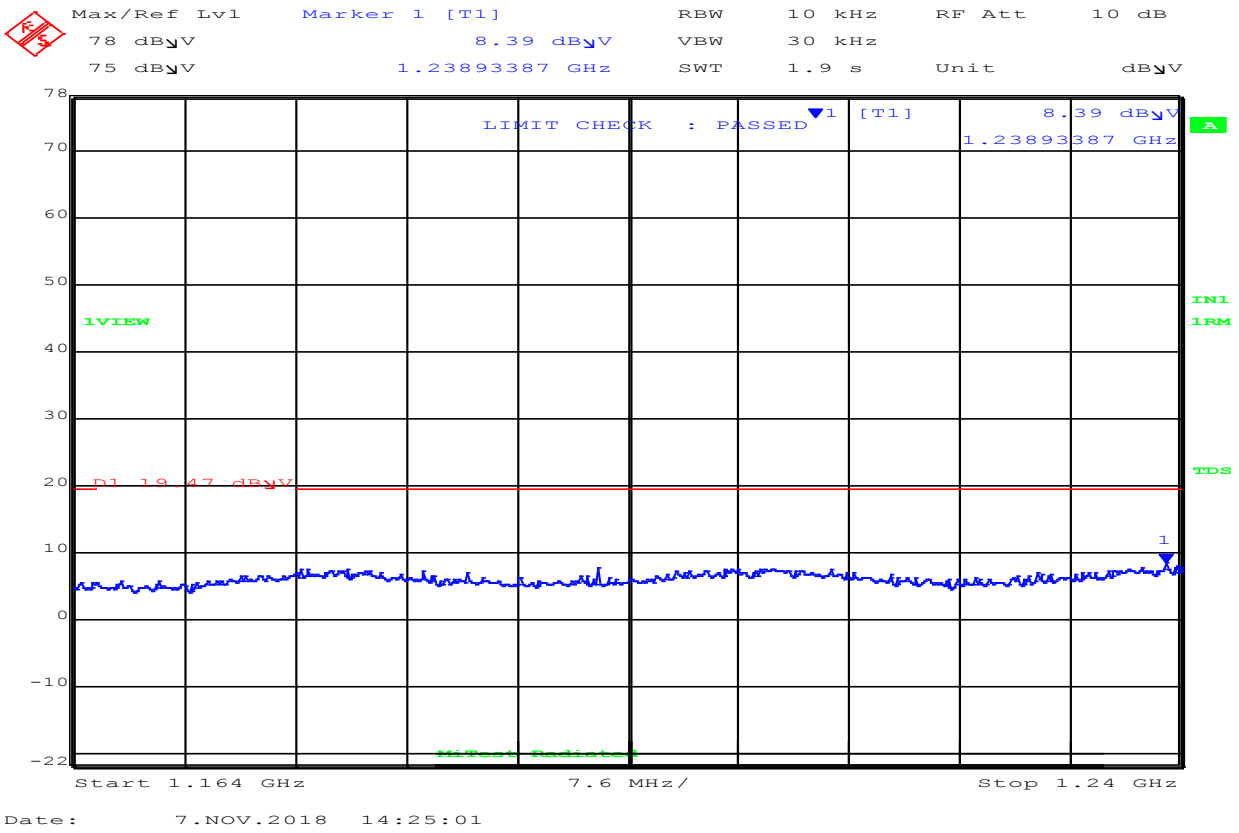
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

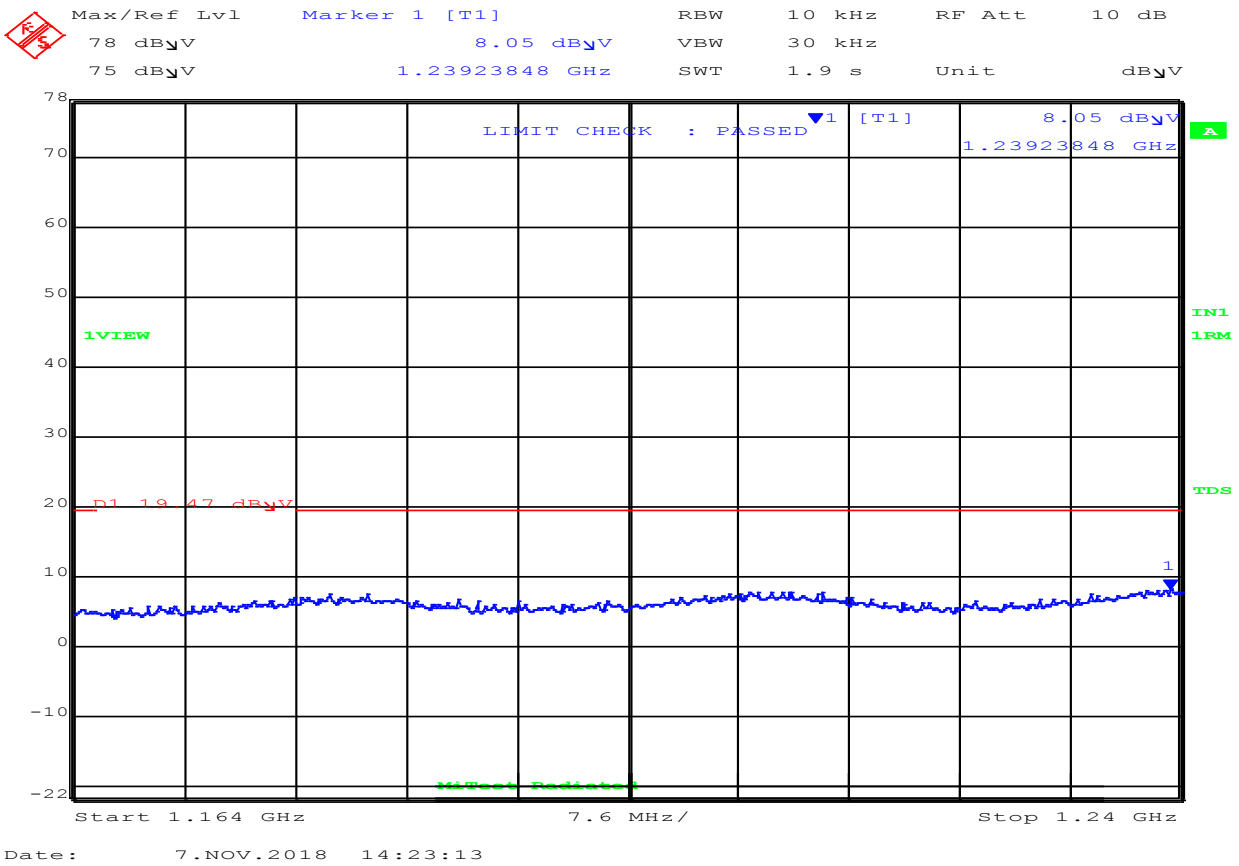
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 14:23:13

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

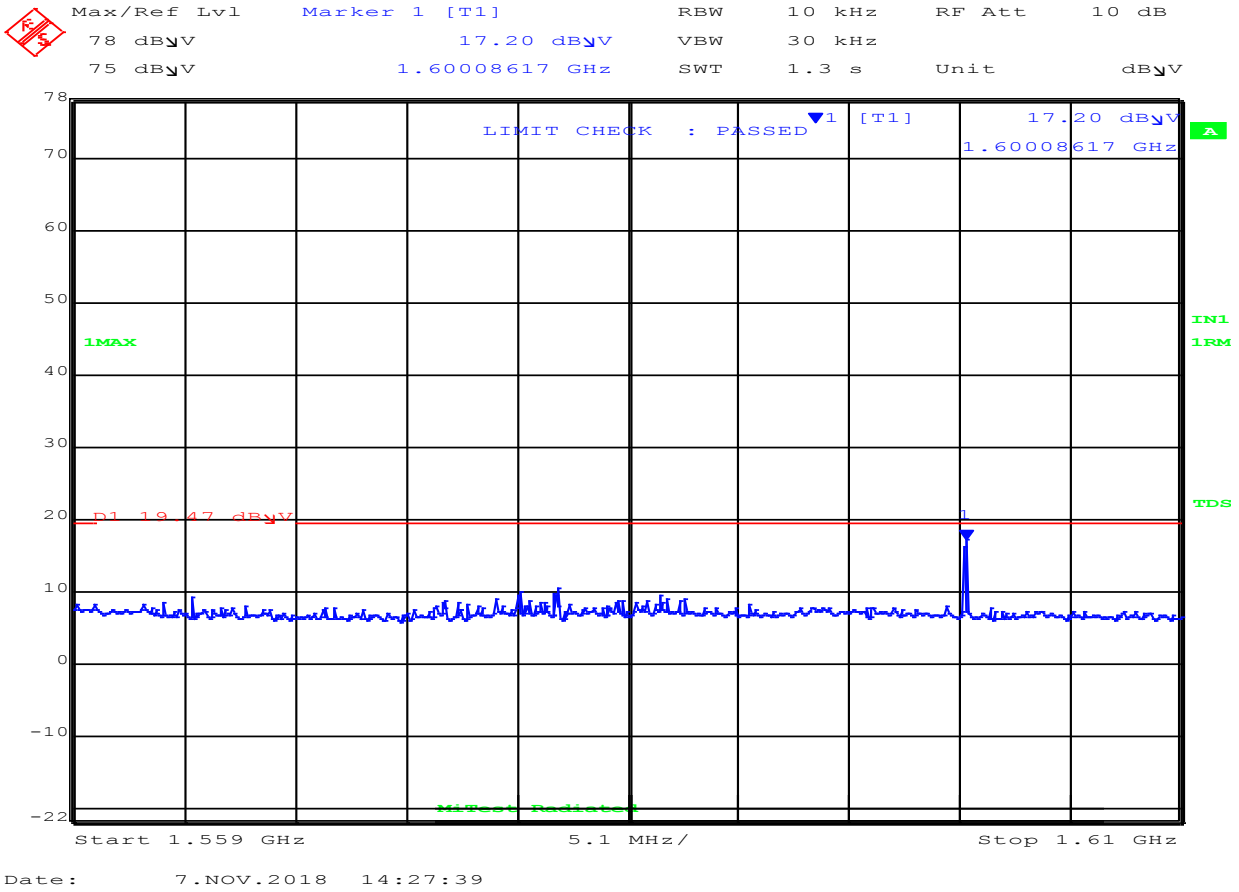
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 14:27:39

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1600.08	16.5	Average	Horizontal	150	0	19.47	-3.0	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

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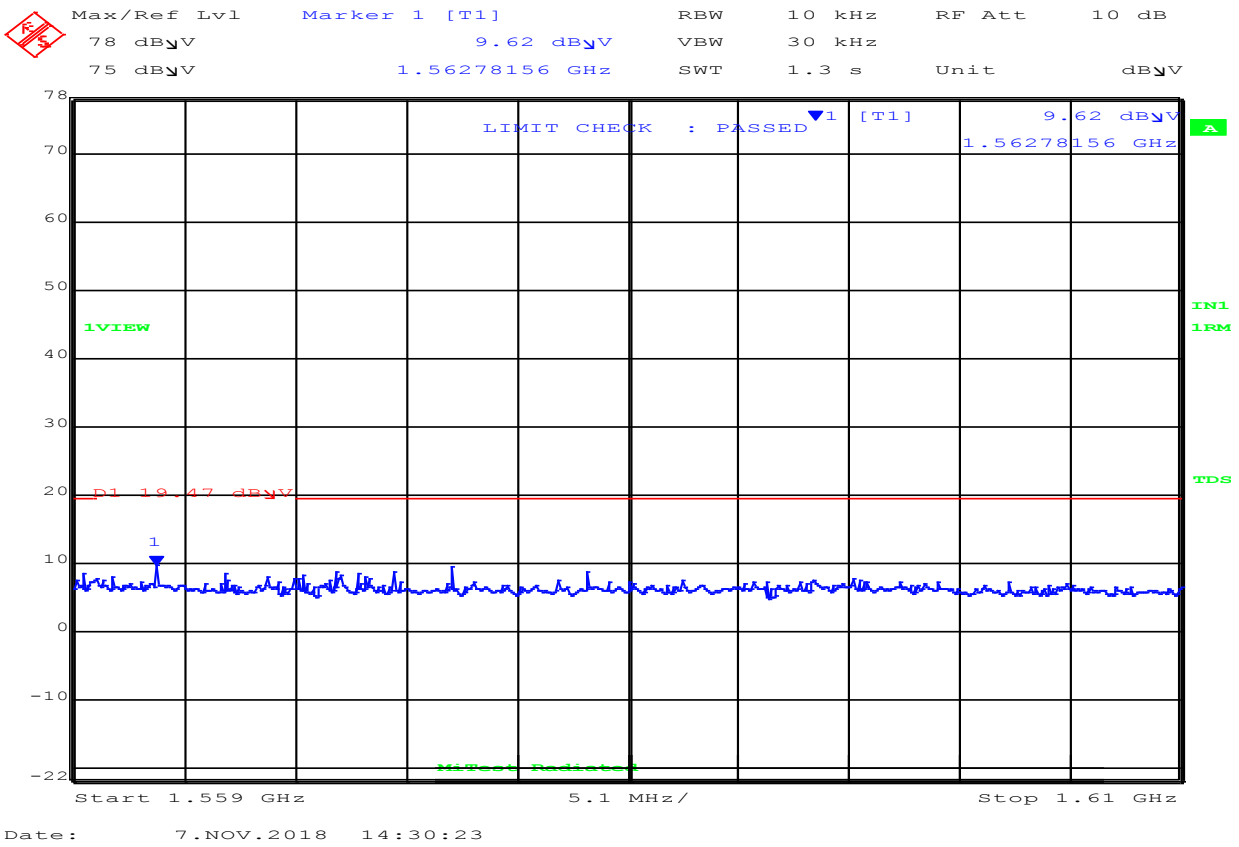
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 14:30:23

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

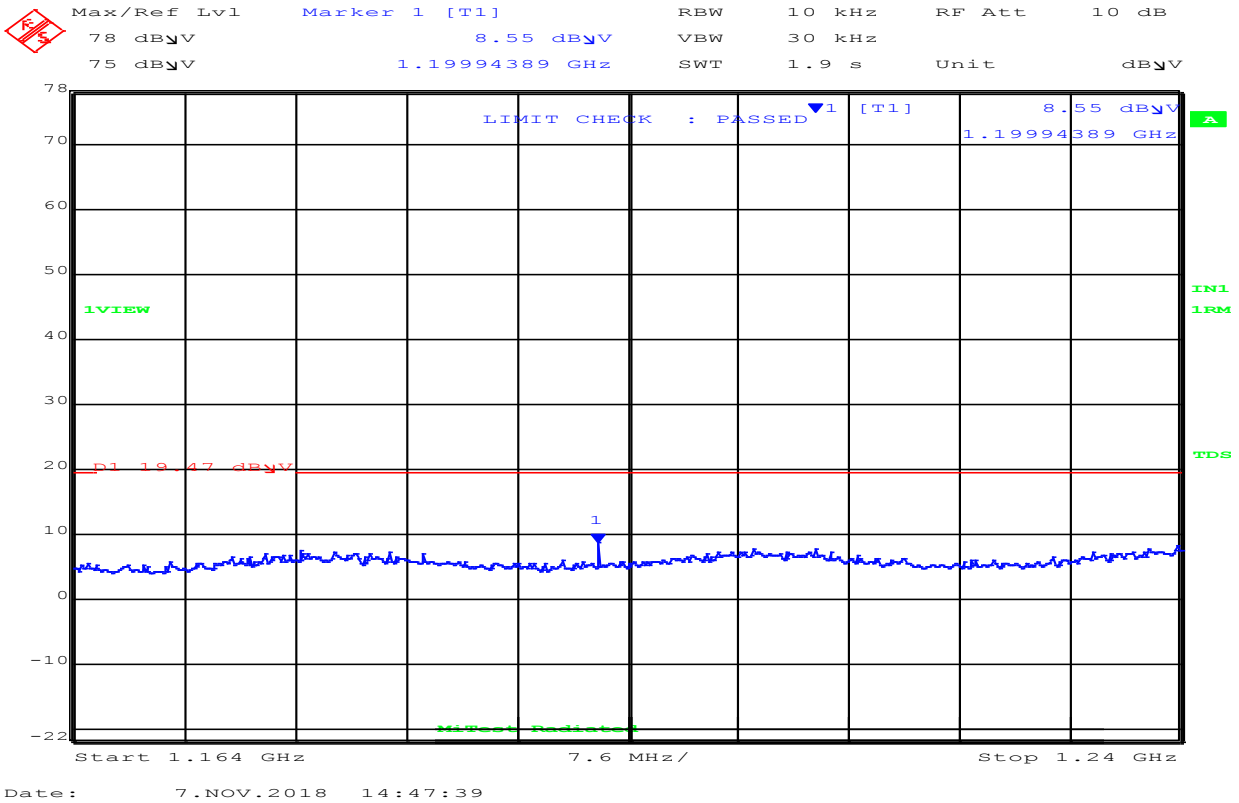
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

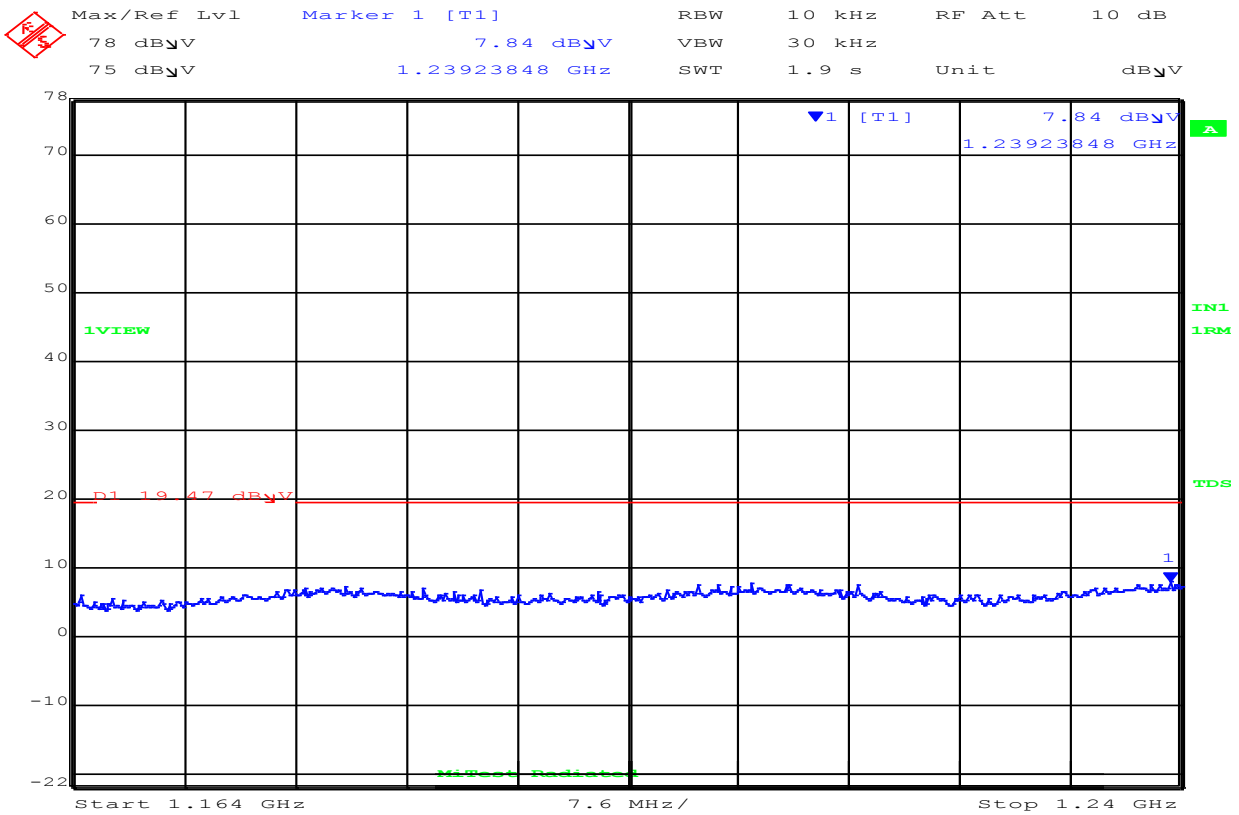
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



Date: 7.NOV.2018 14:49:00

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

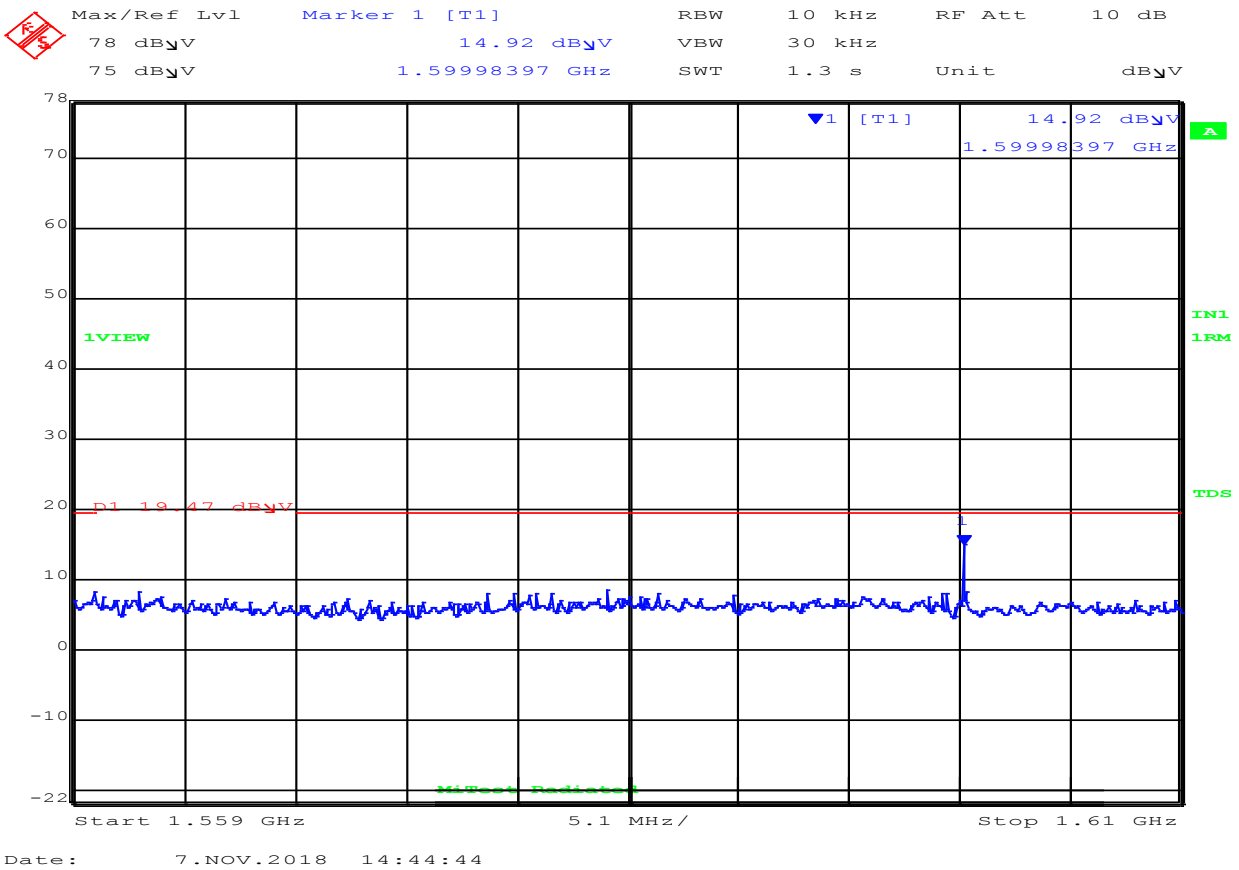
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	4.8	Average	Horizontal	150	0	19.47	-14.7	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

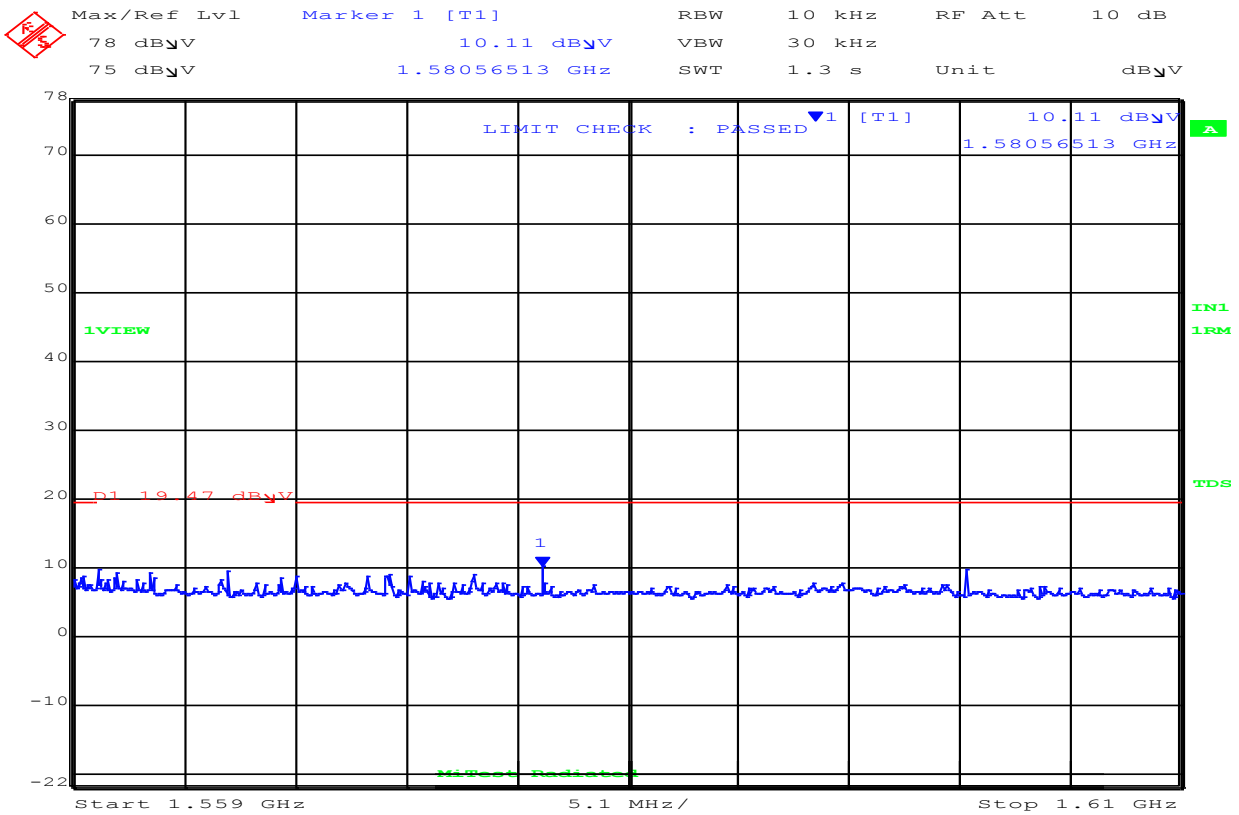
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



Date: 7.NOV.2018 14:39:06

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

8184 MHz

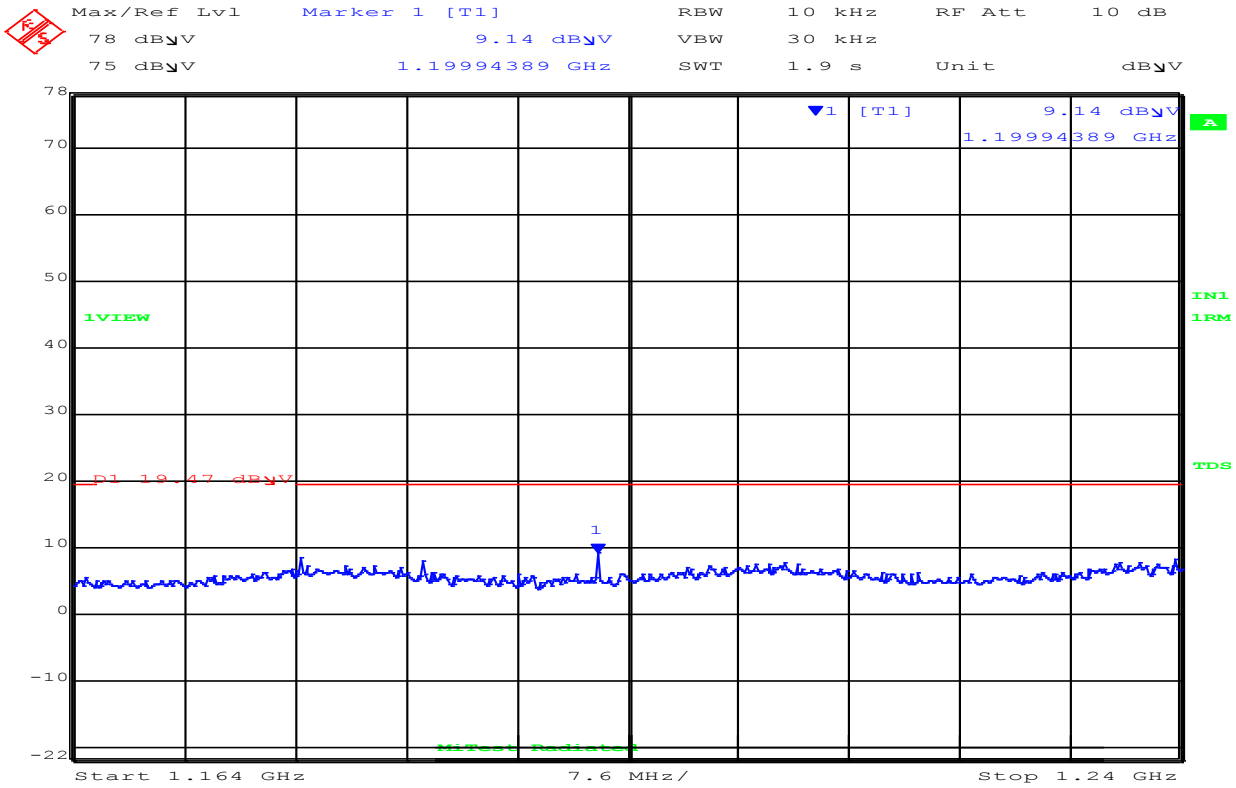
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

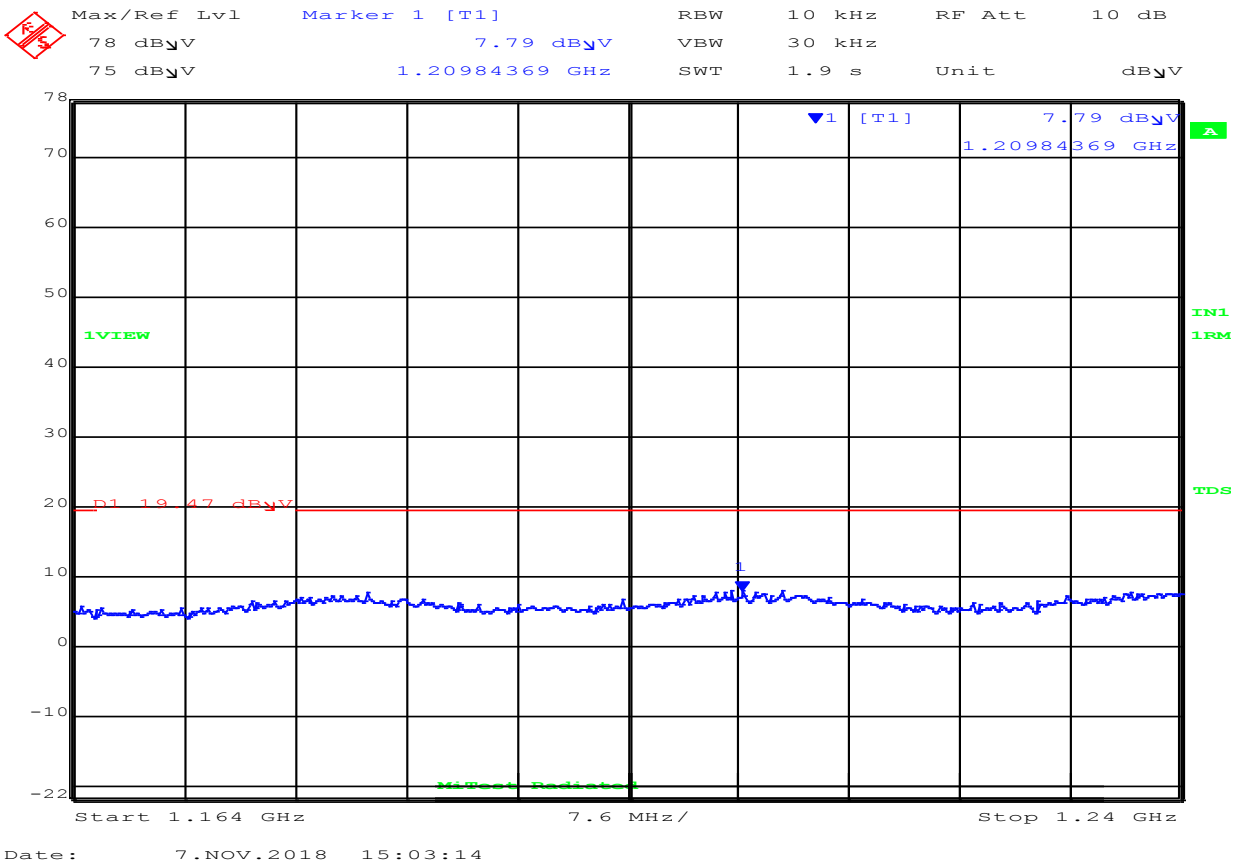
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 15:03:14

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

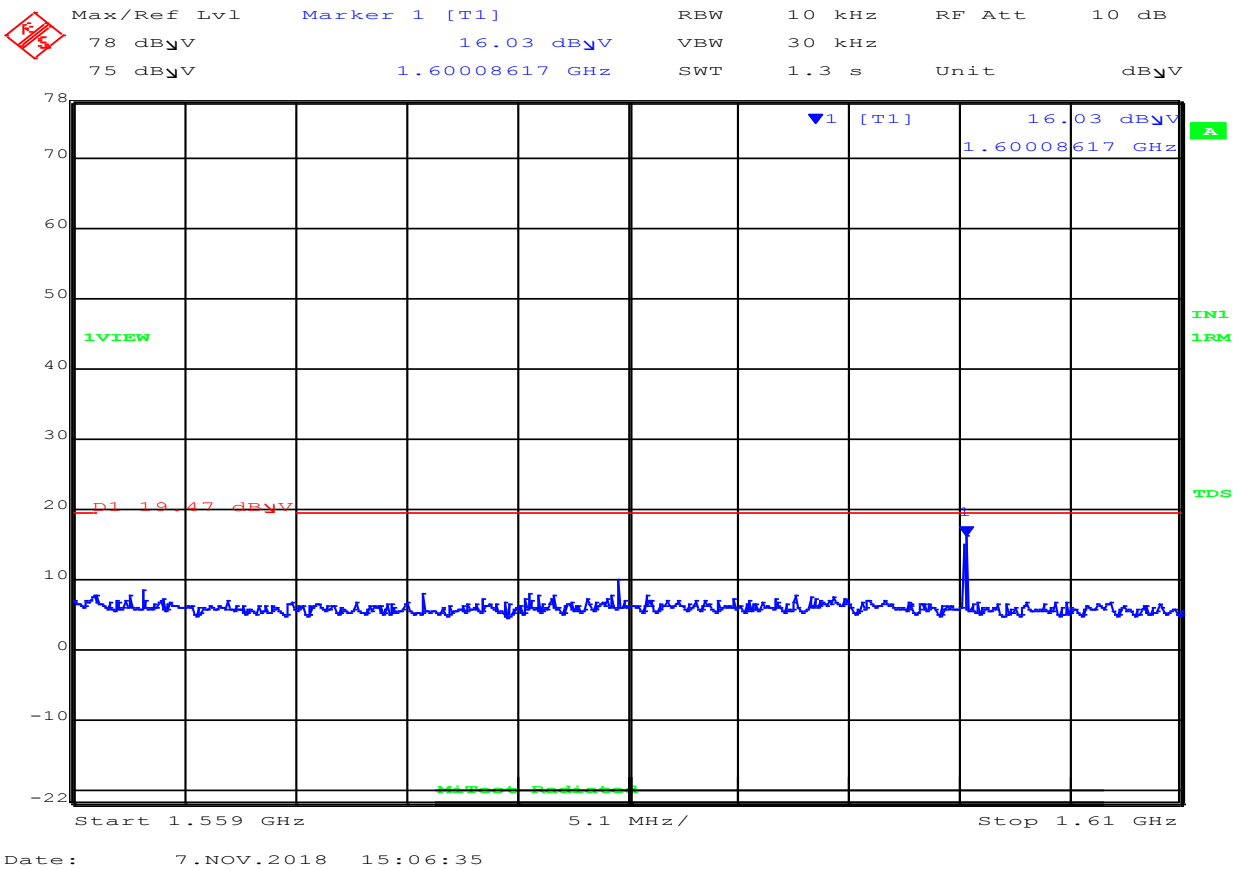
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1600.08	5.6*	Average	Horizontal	150	0	19.47	-13.9	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

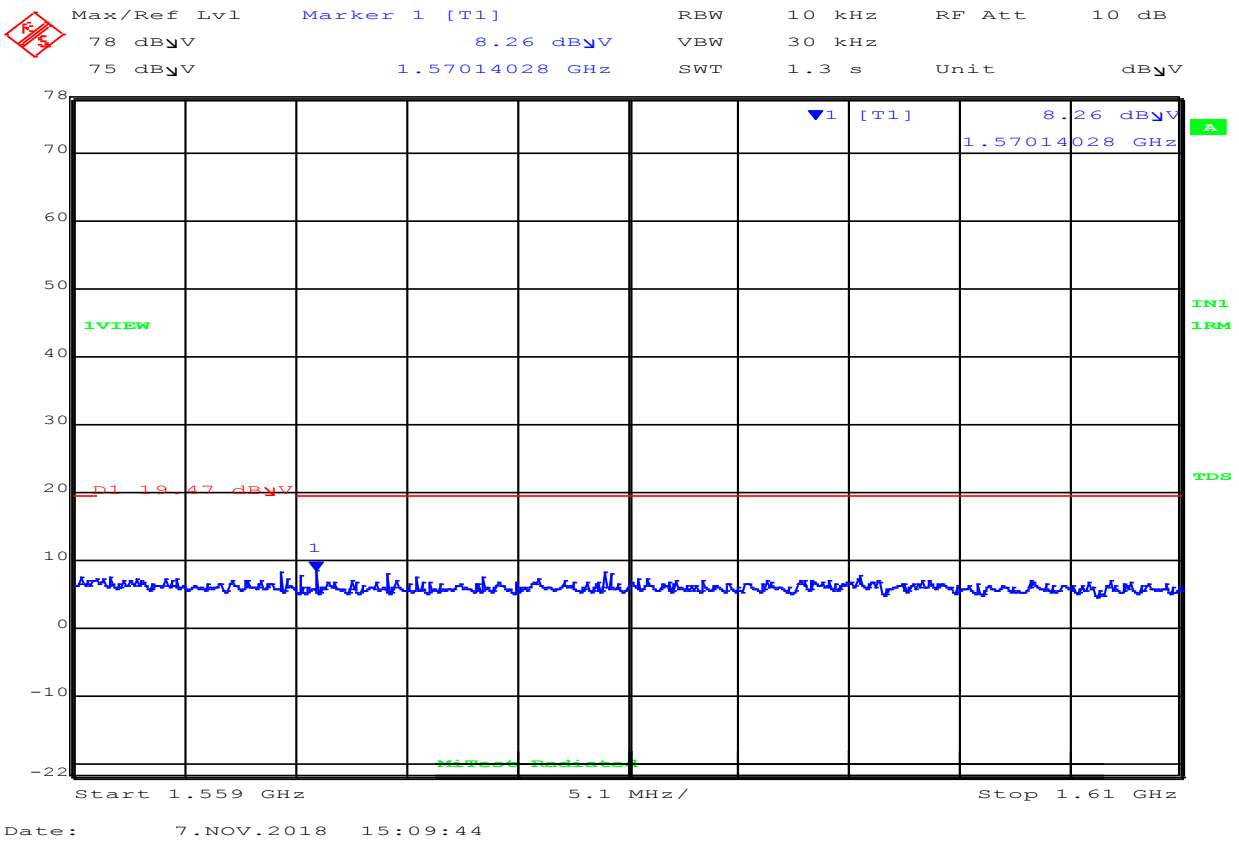
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

8712 MHz

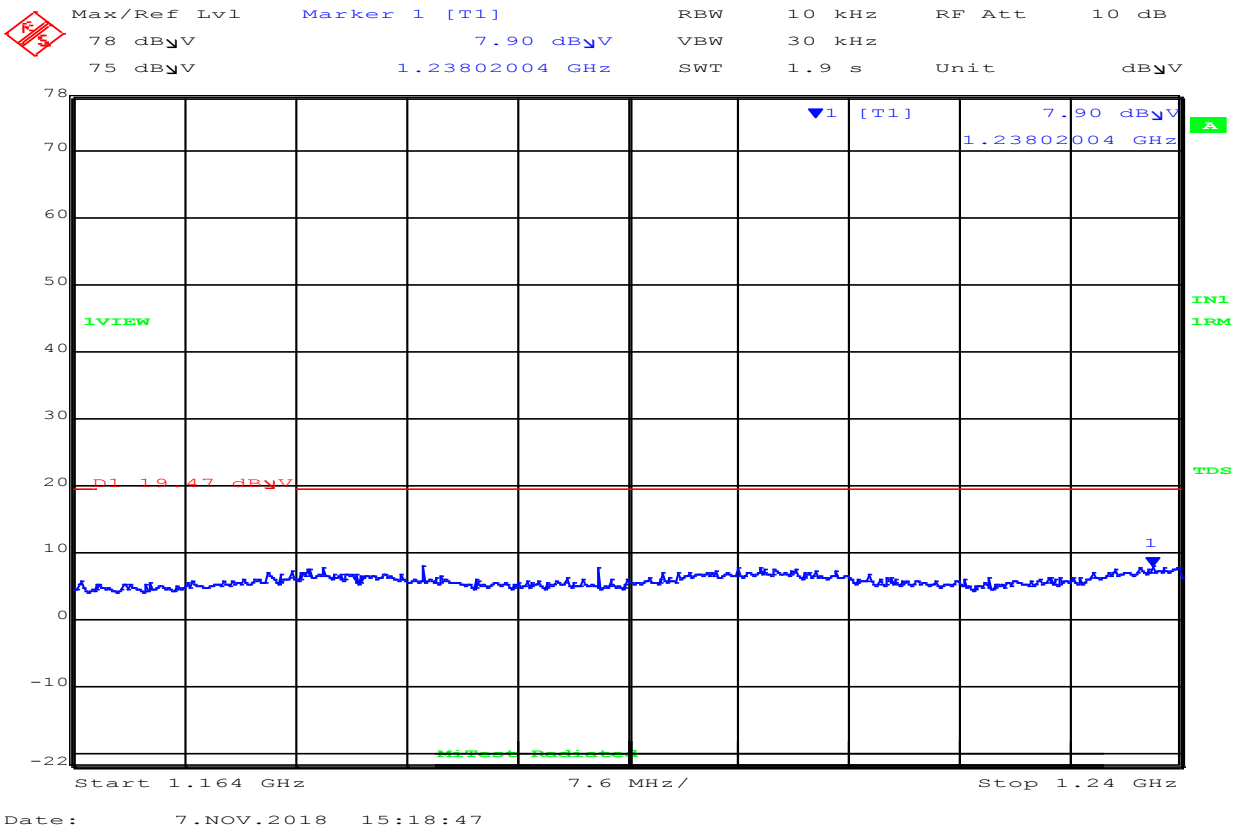
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

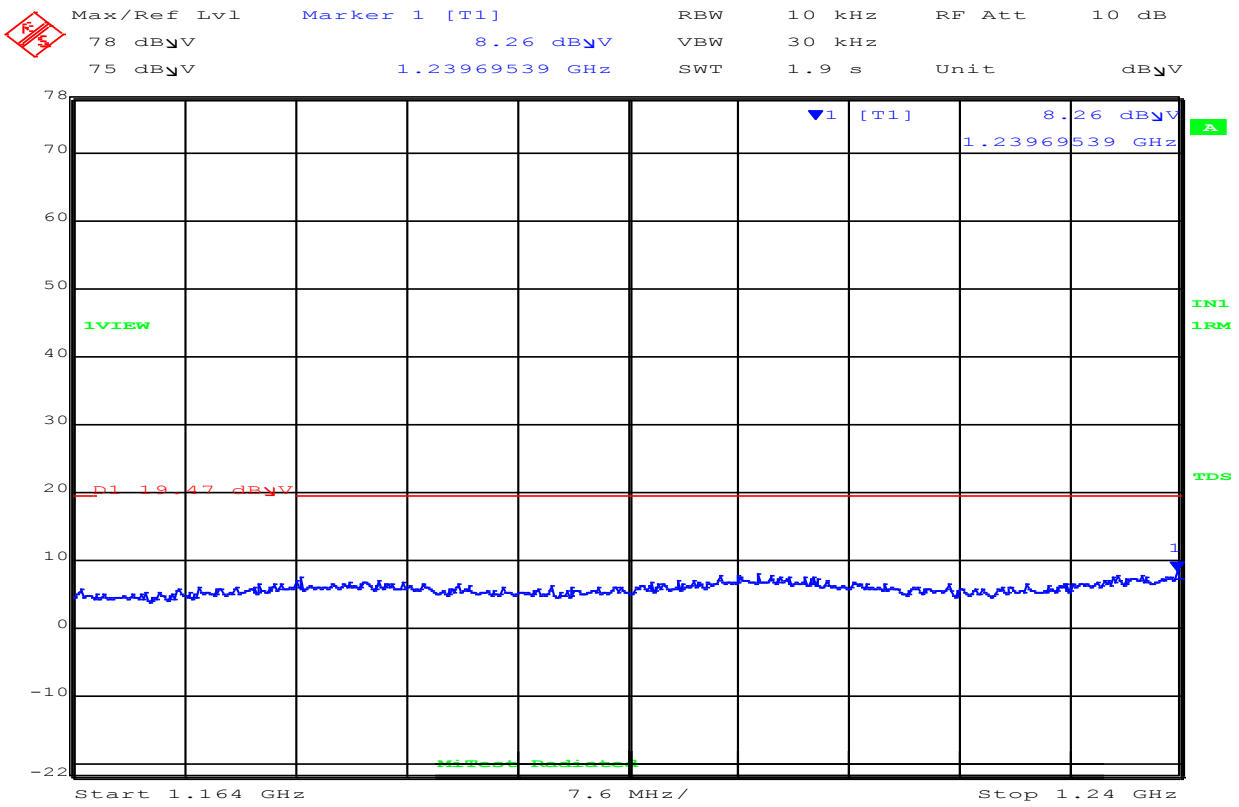
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 15:20:30

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

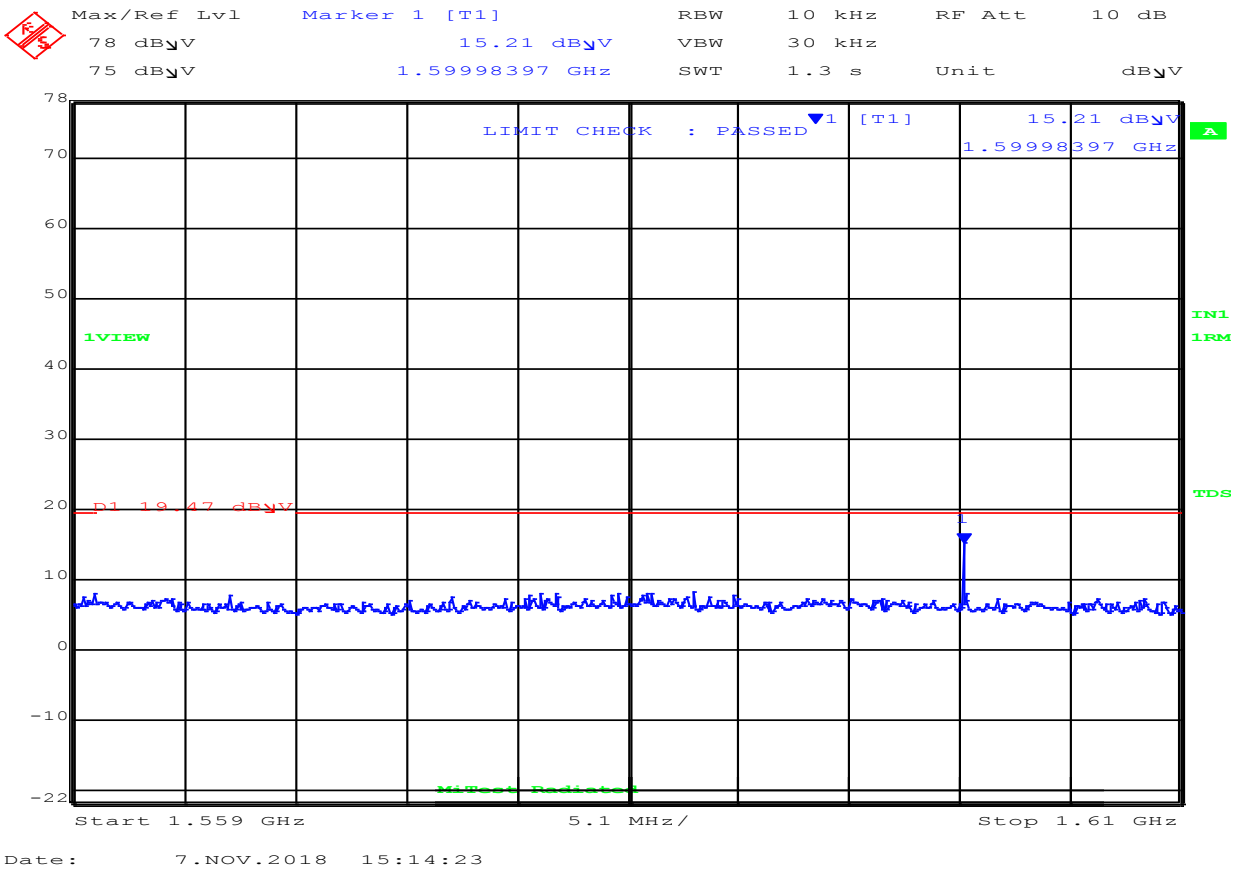
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	12.2*	Average	Horizontal	150	0	19.47	-7.3	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

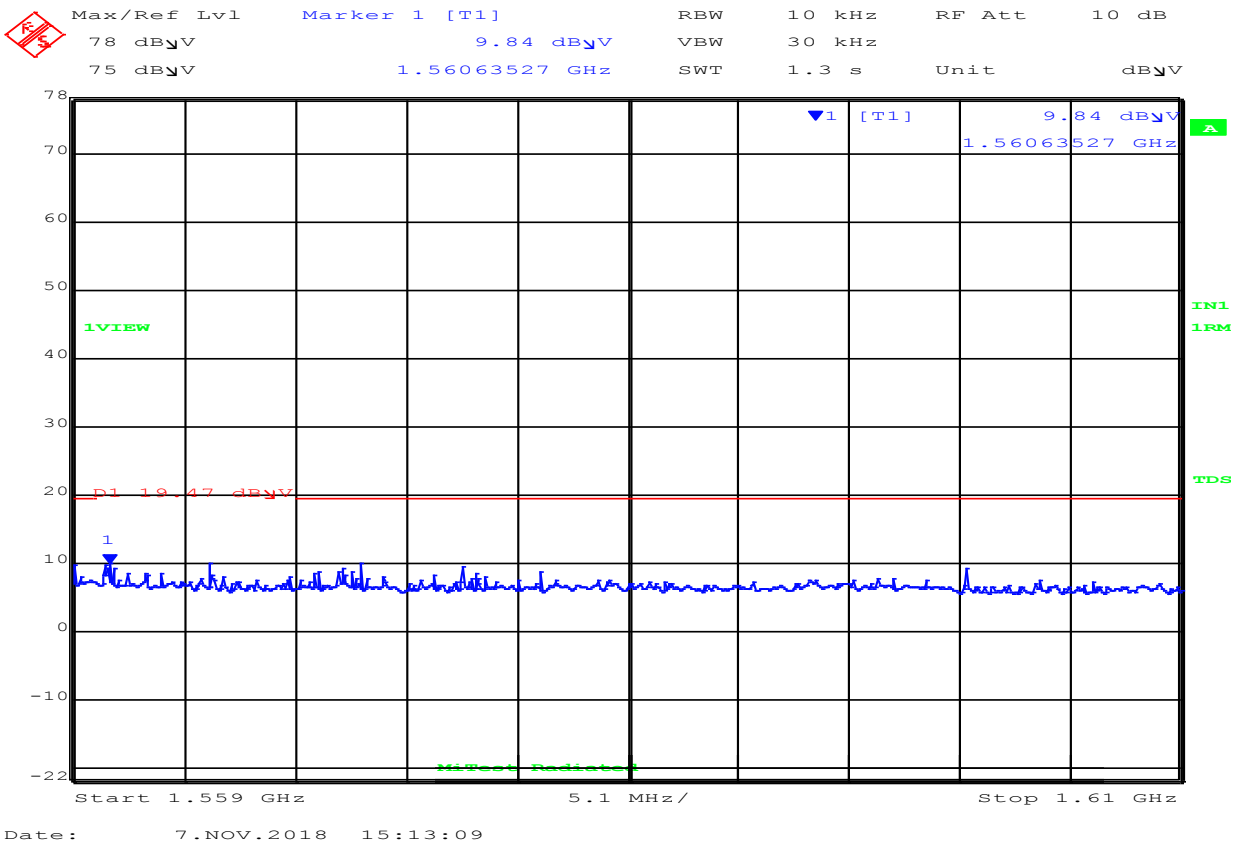
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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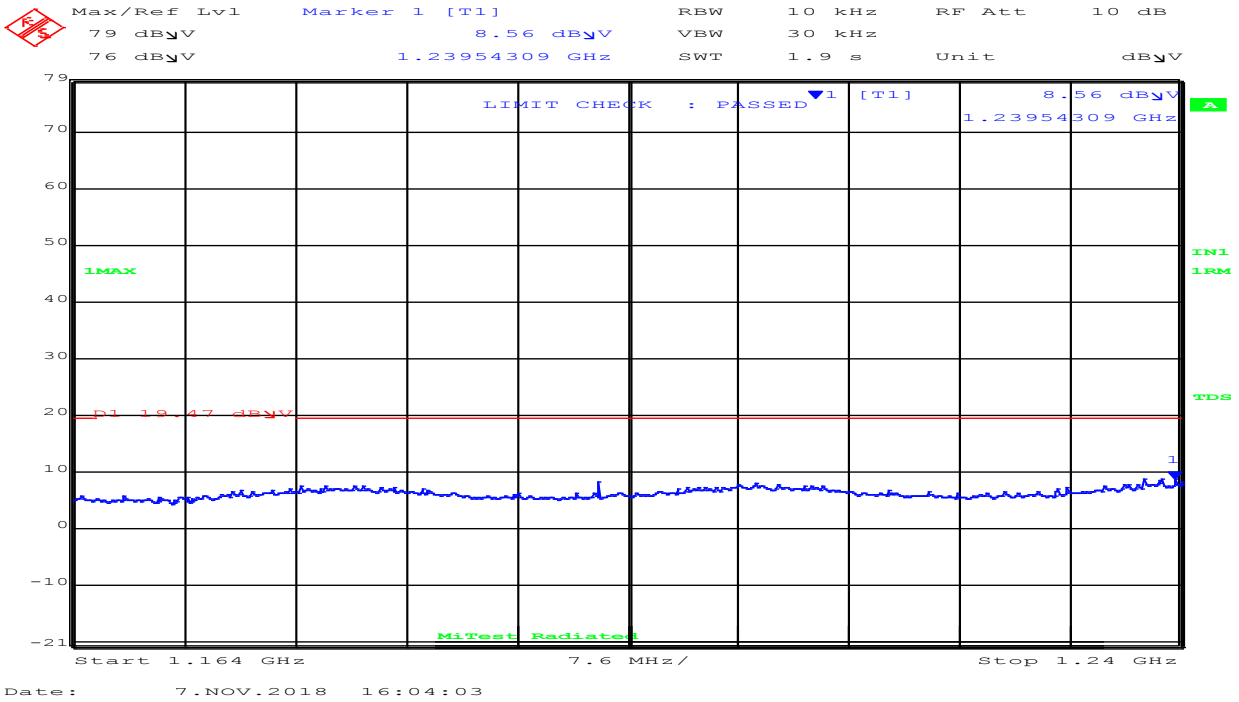
9.4.2.2. Camouflage AL5955

3432 MHz

Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Test Measurement Results

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

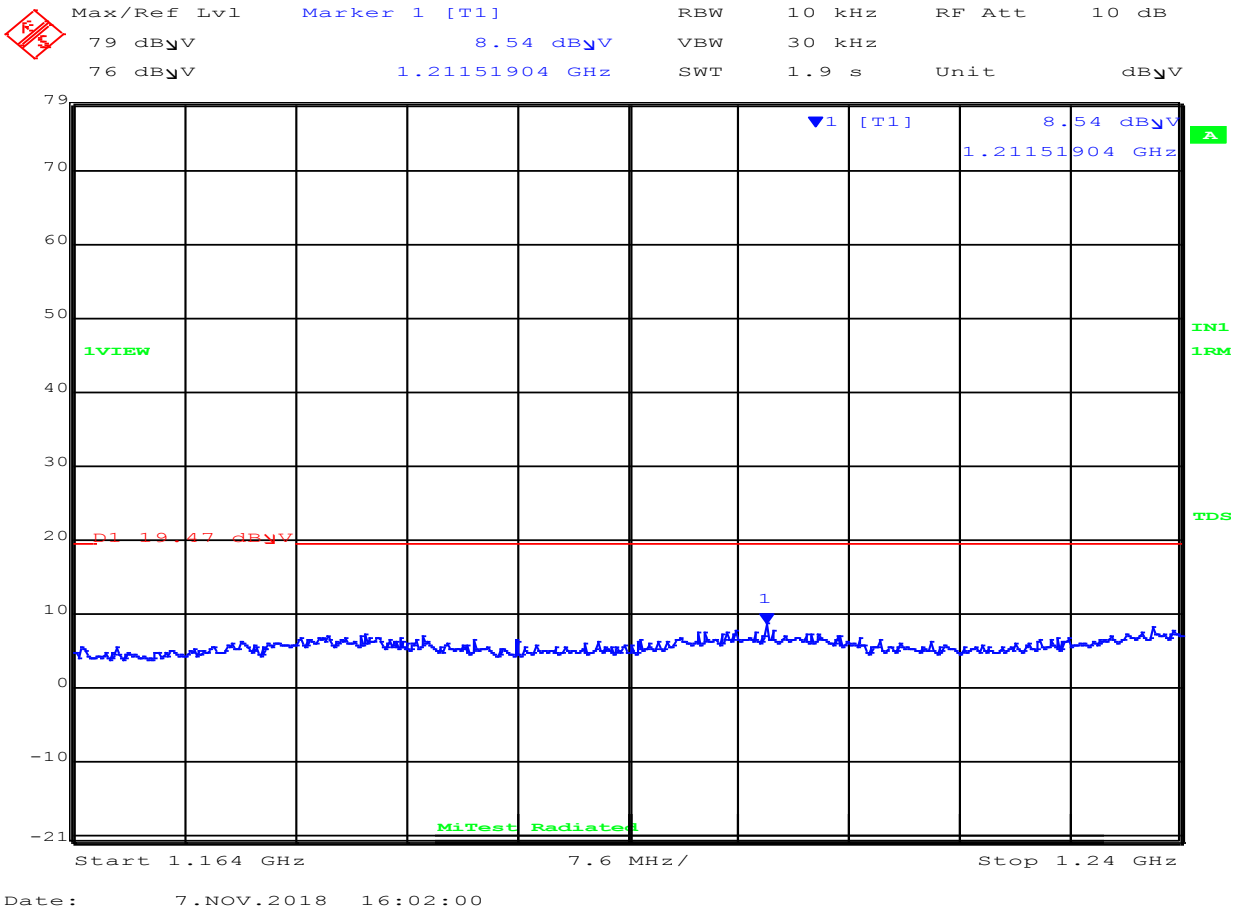
Test Notes:
Laptop Removed

Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:02:00

Test Measurement Results

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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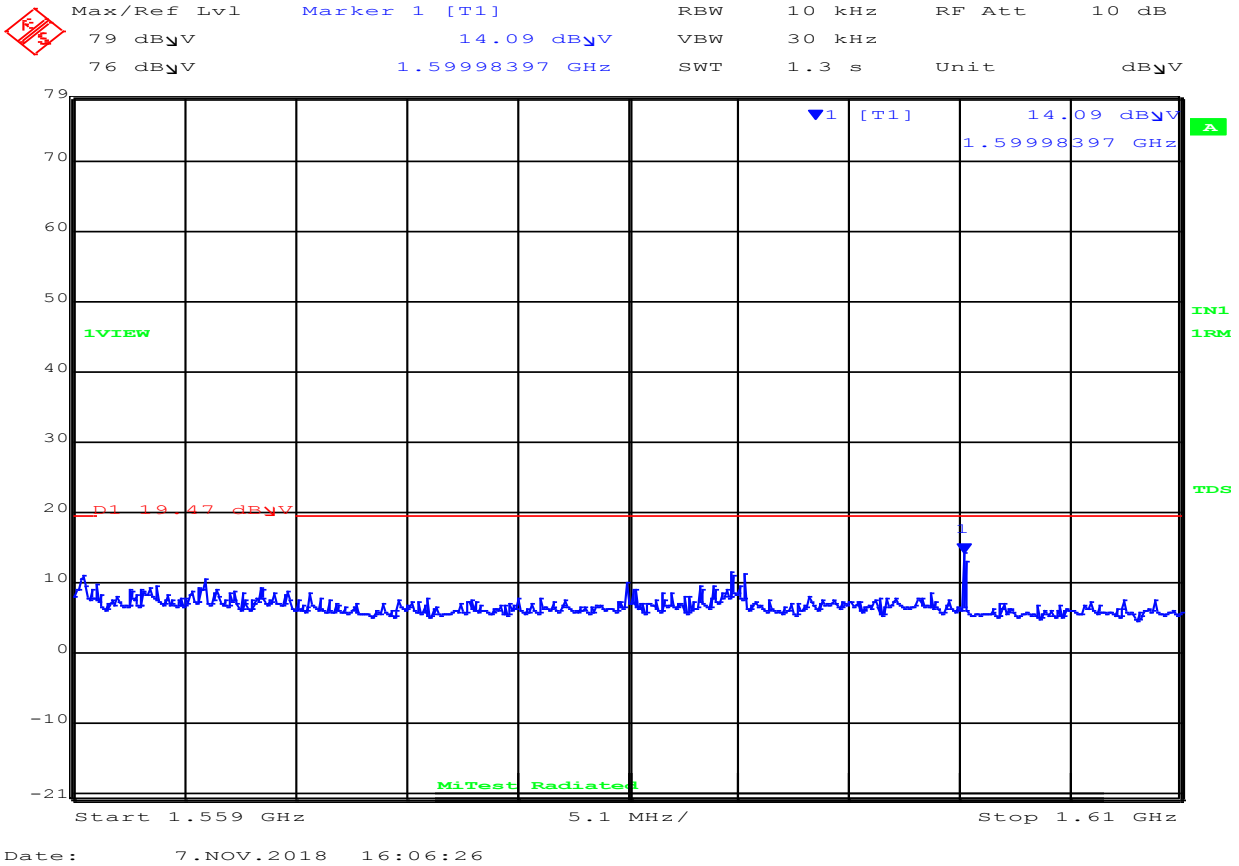
Equipment Configuration for Spurious Emissions1.559-1.610GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:06:26

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
1	1599.98	3.2*	Average	Horizontal	150	0	19.47	-16.27	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard.

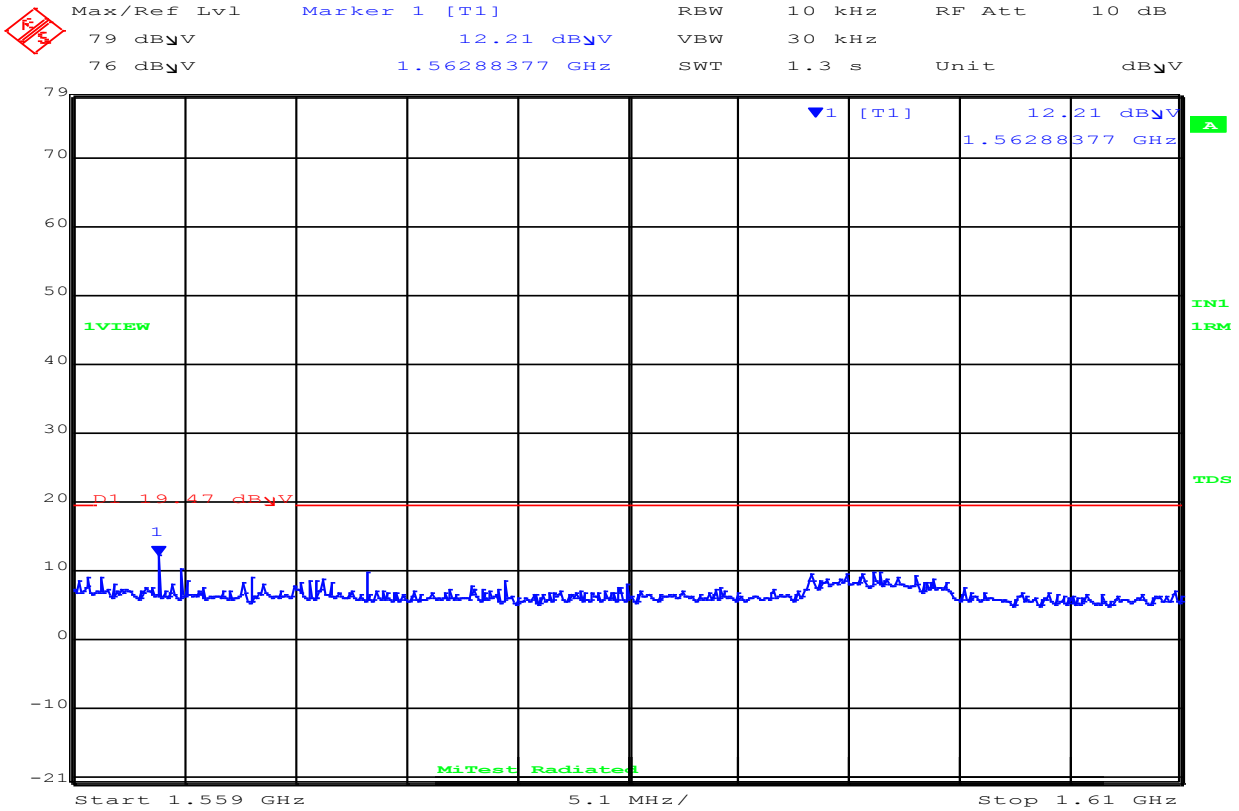
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:09:53

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

3960 MHz

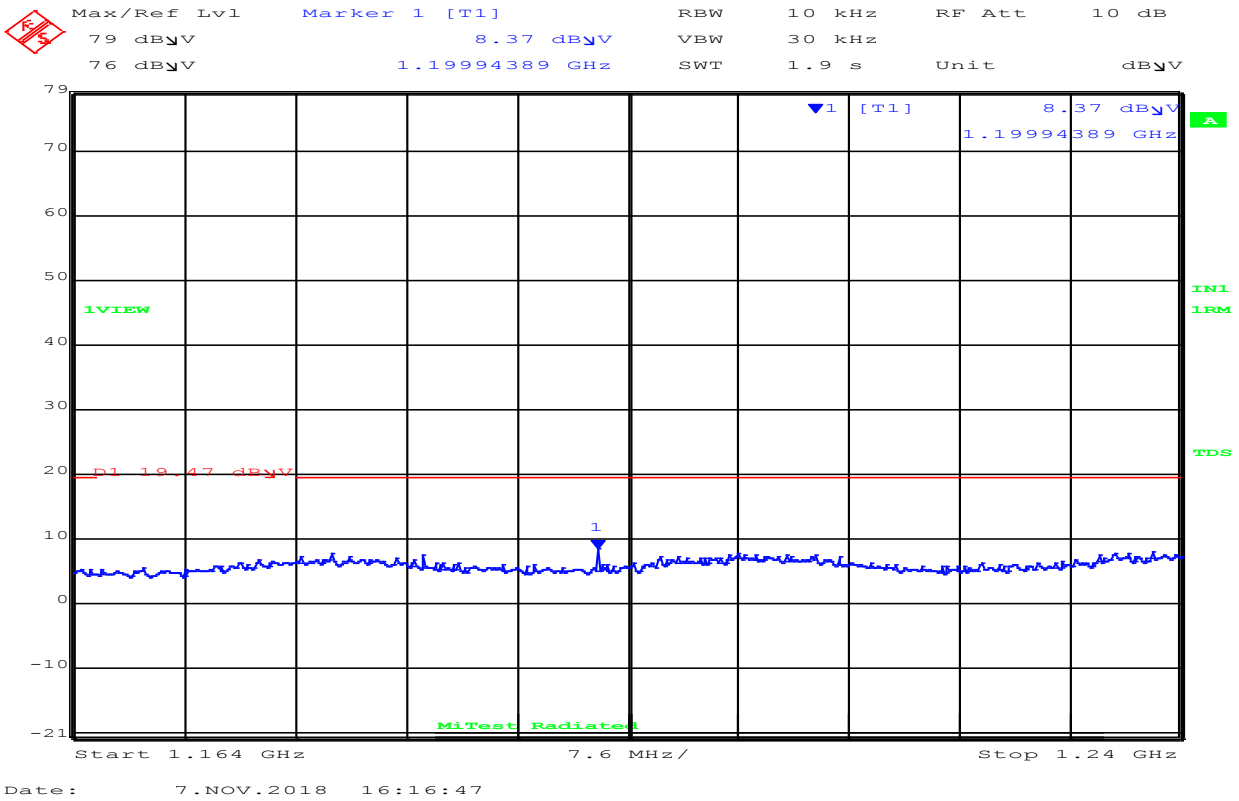
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

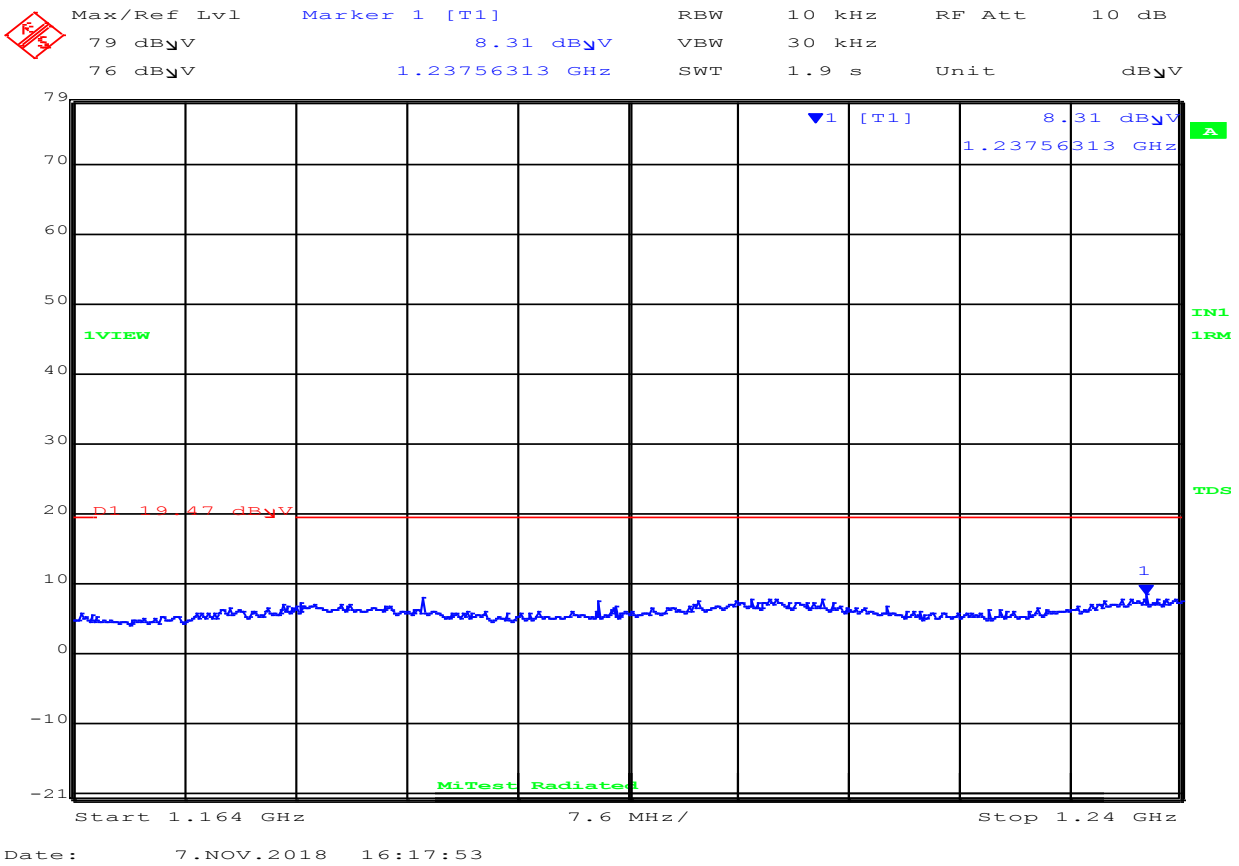
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

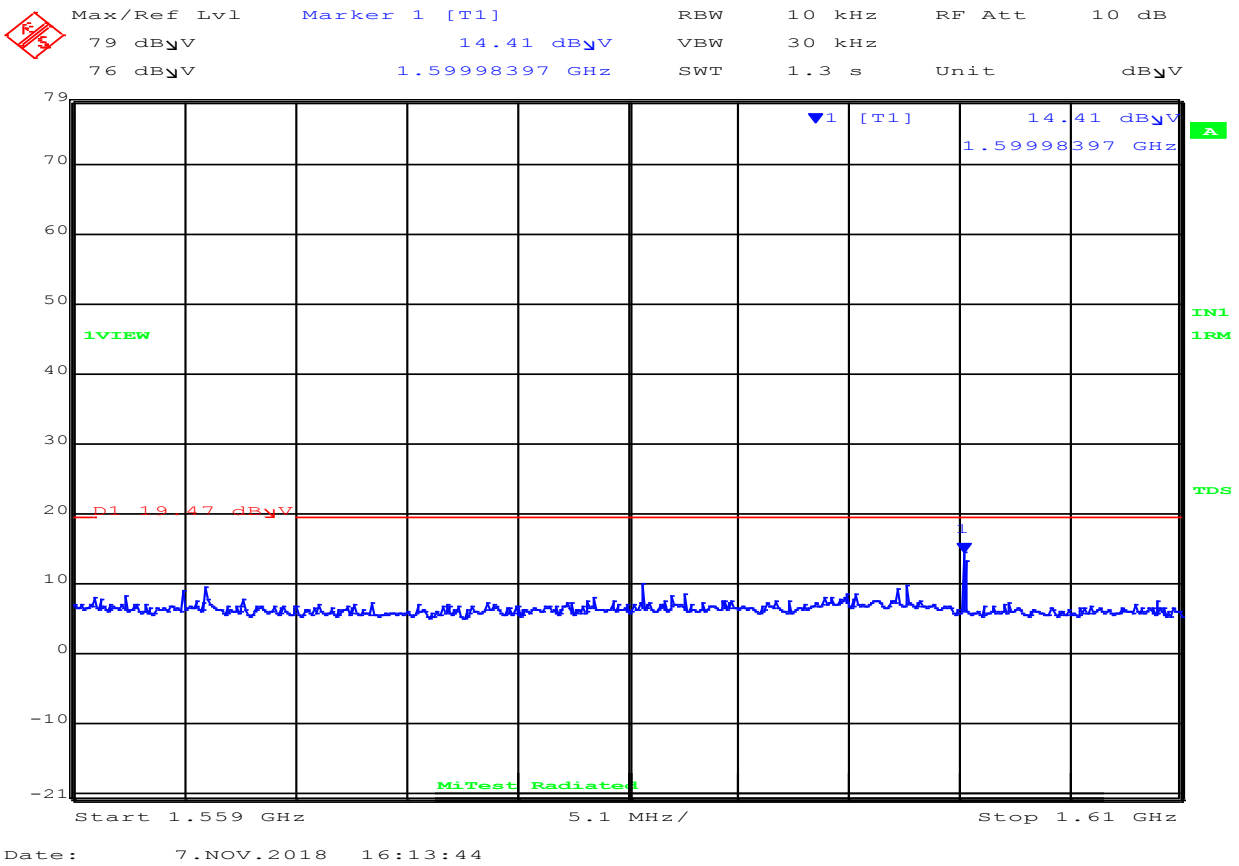
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:13:44

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.99	2.8*	Average	Horizontal	150	0	19.47	-16.67	Pass

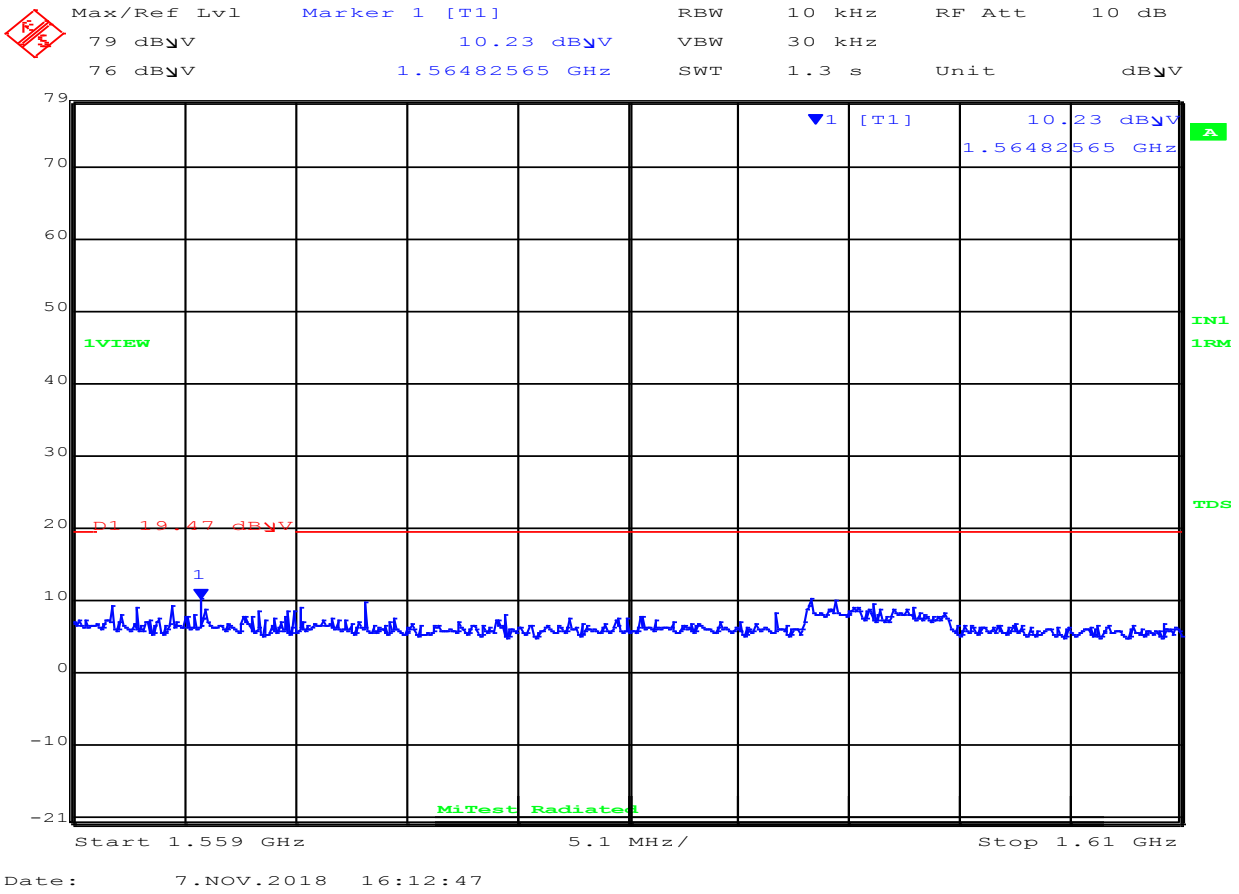
Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:12:47

Test Measurement Results

Num	Frequency MHz	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1559.00-1610.00 MHz									
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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4488 MHz

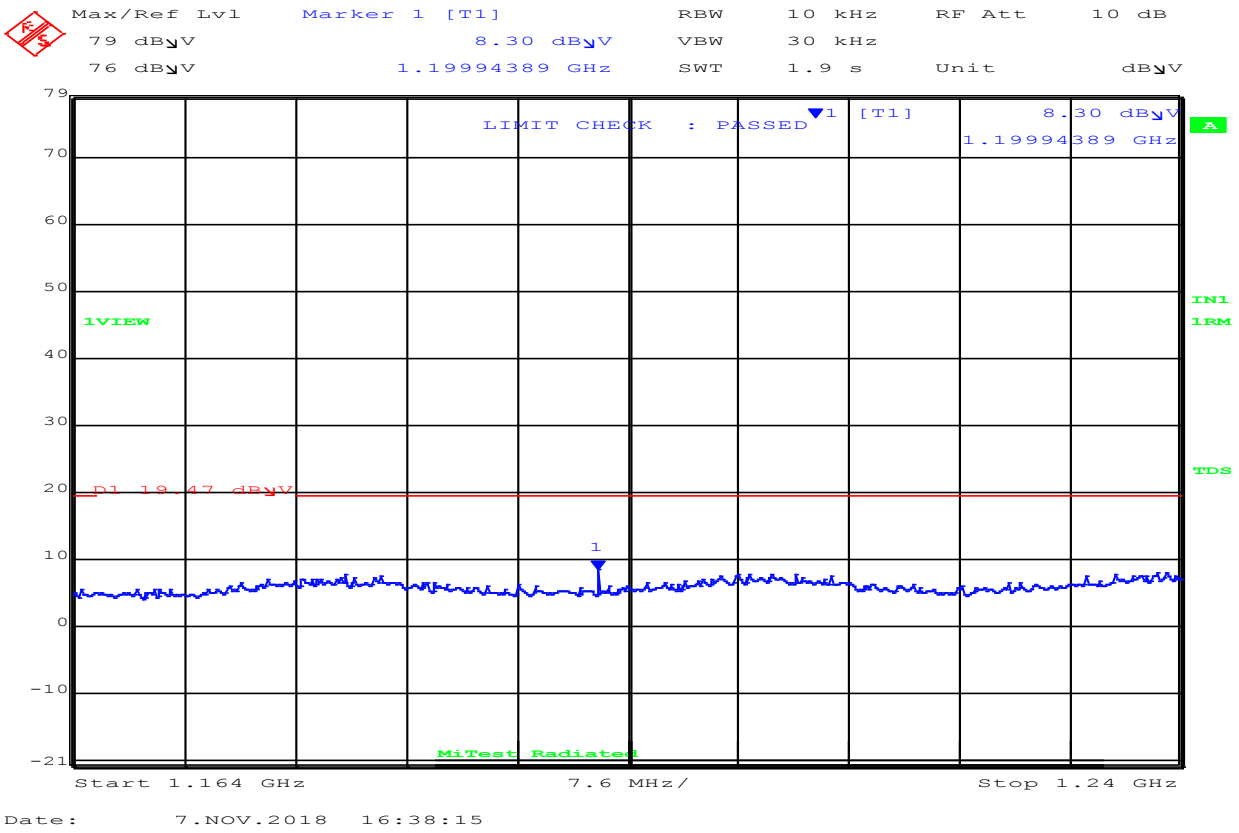
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

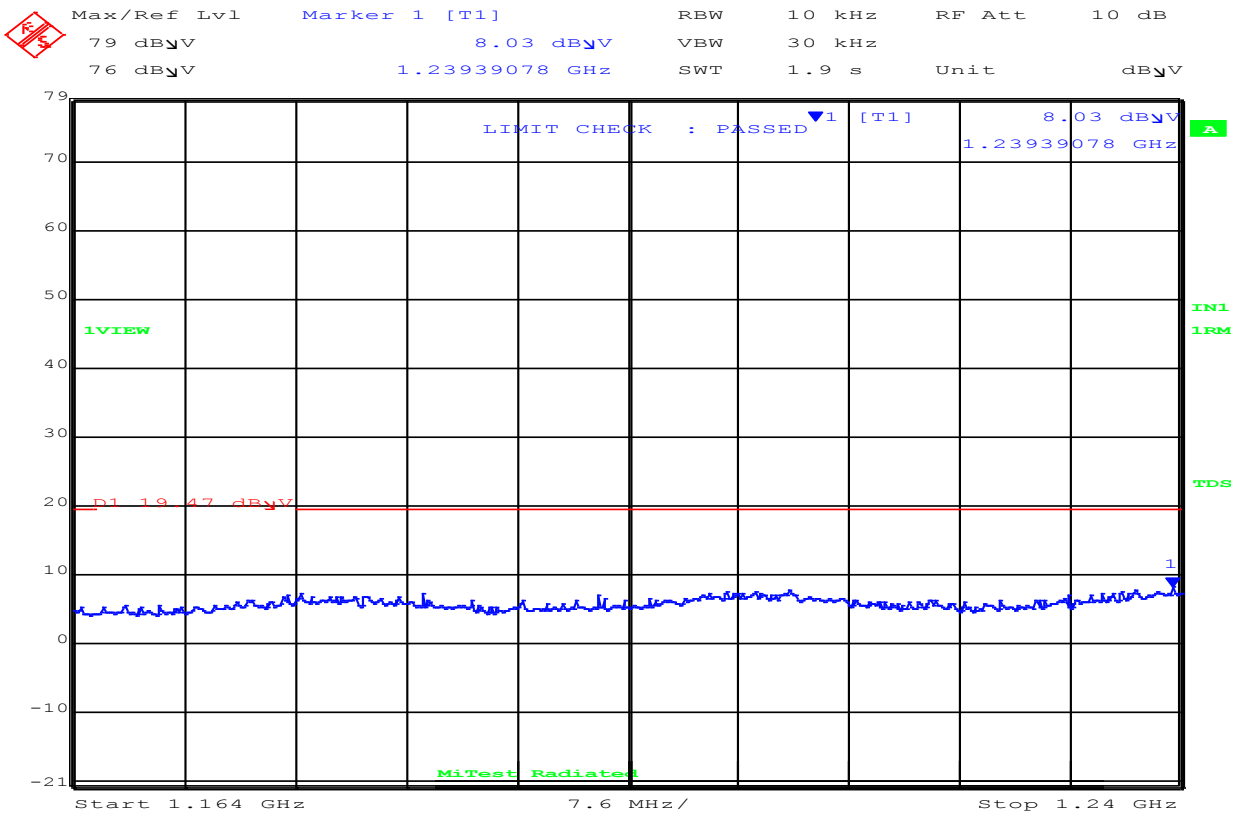
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:36:37

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

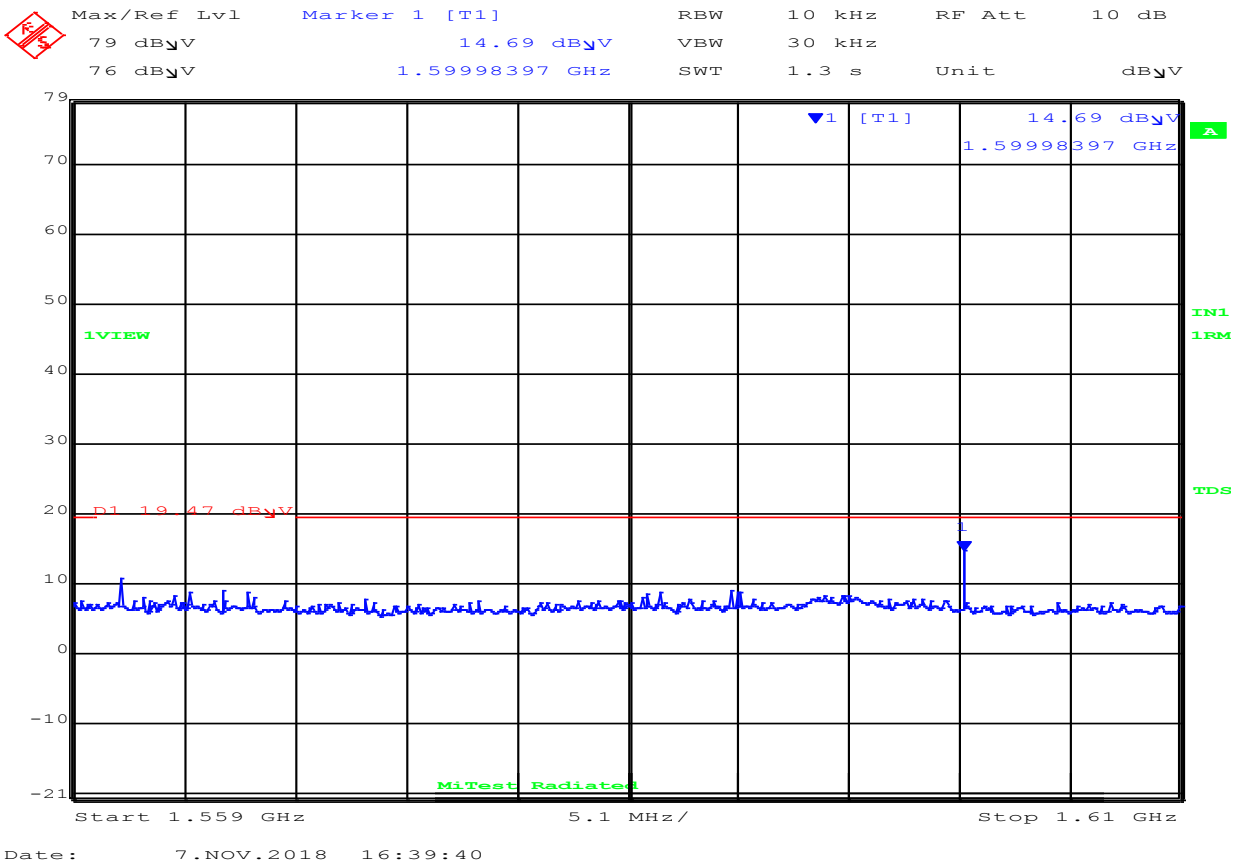
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	2.1*	Average	Horizontal	150	0	19.47	-17.4	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

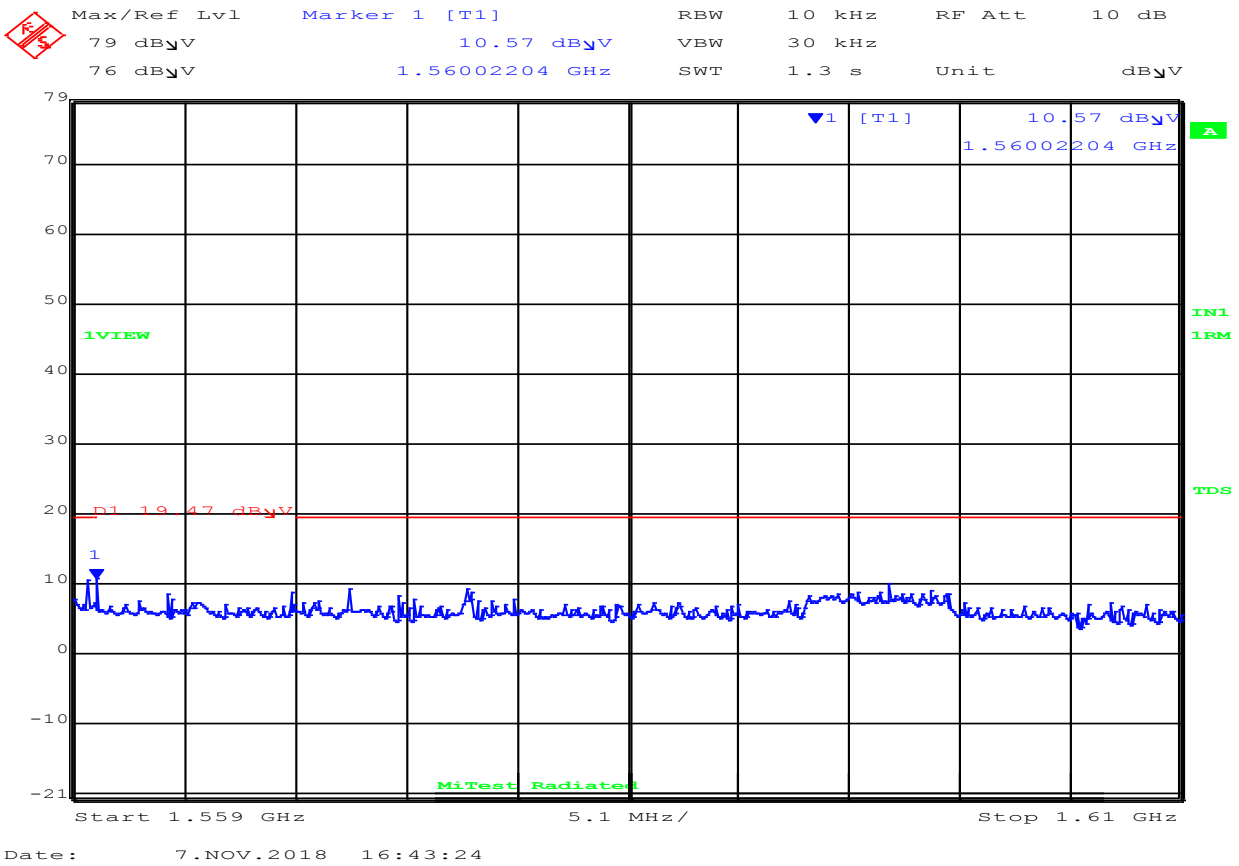
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:43:24

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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6600 MHz

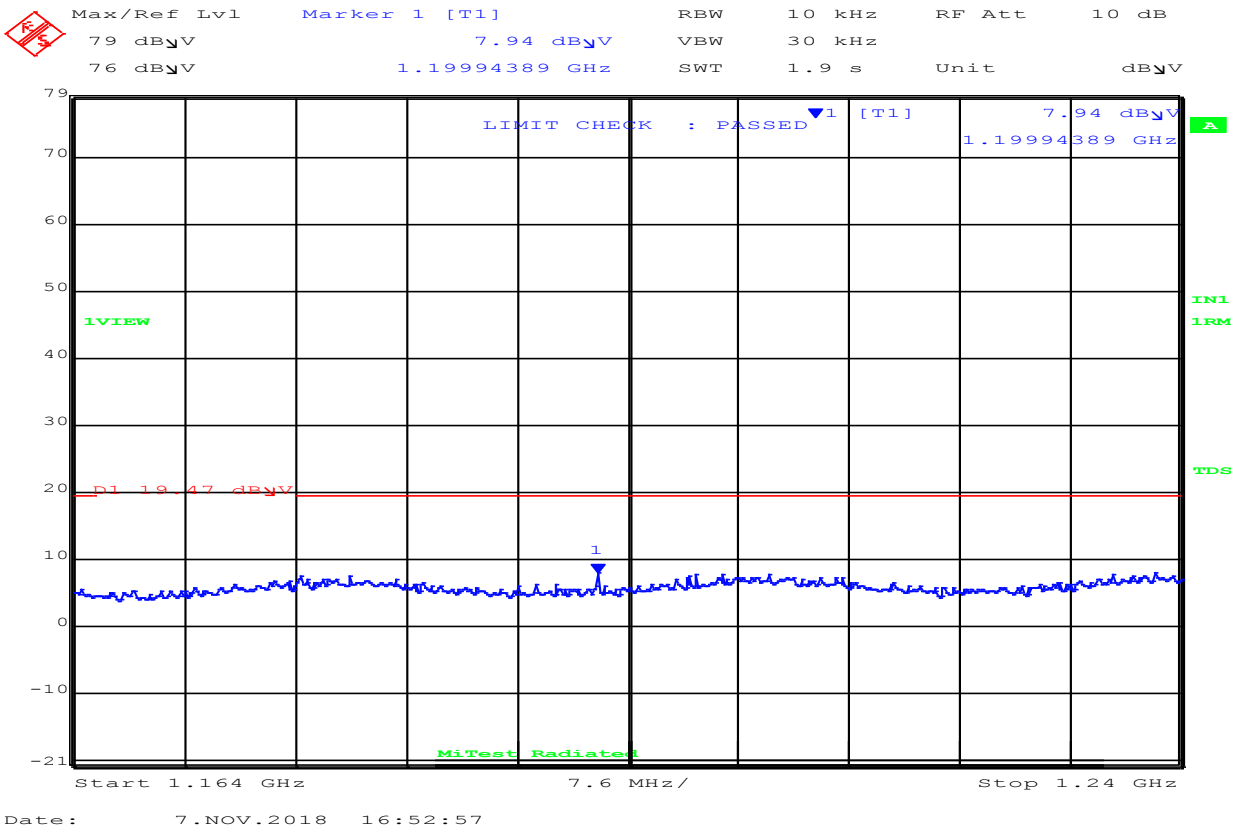
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:52:57

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

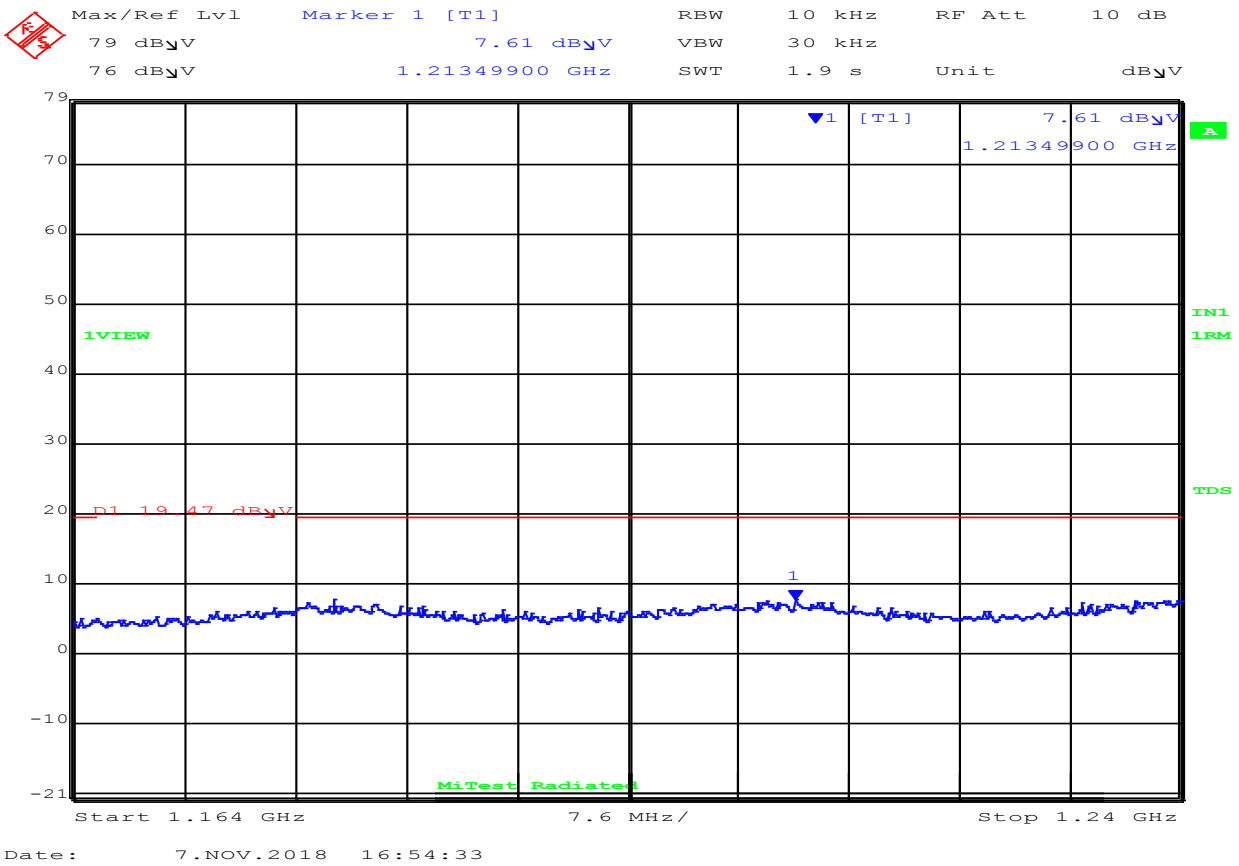
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:54:33

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

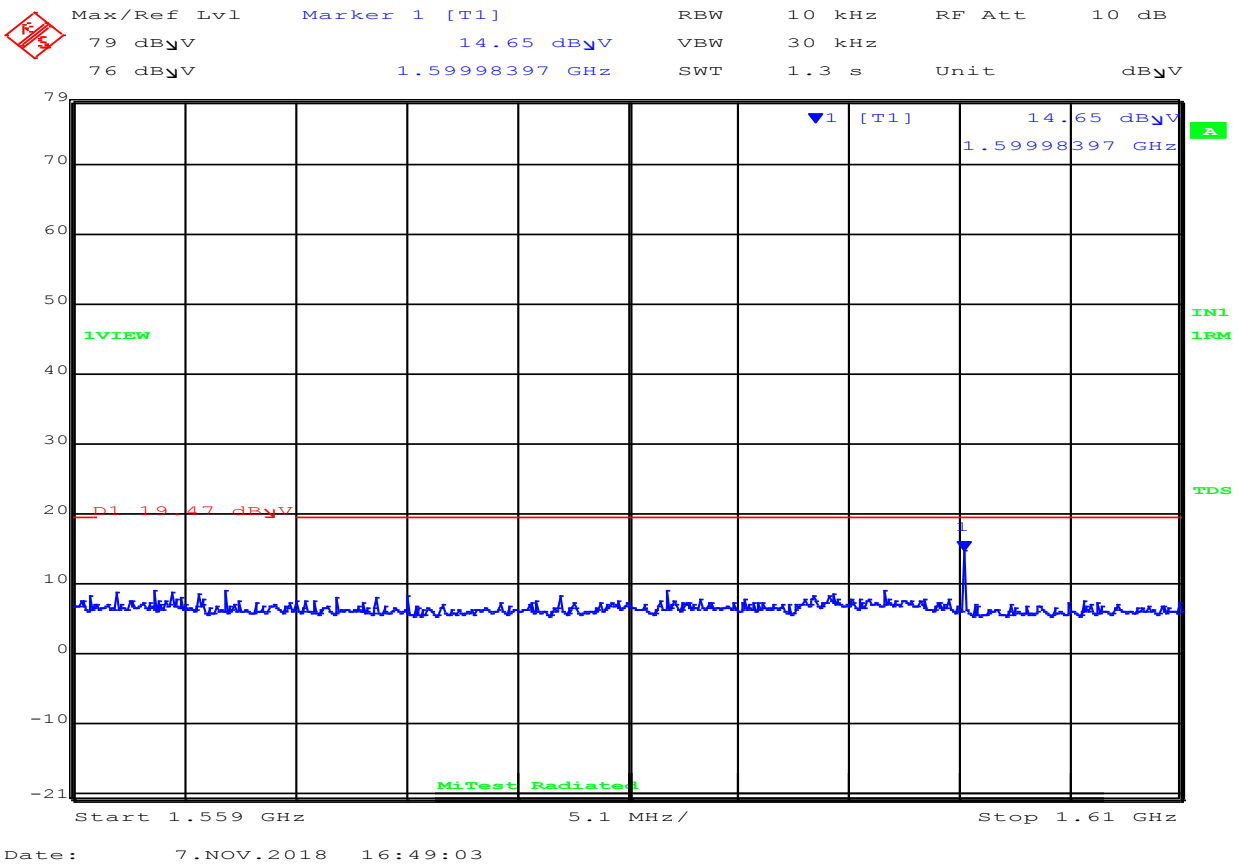
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	1.9*	Average	Horizontal	150	0	29.4	-3.8	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

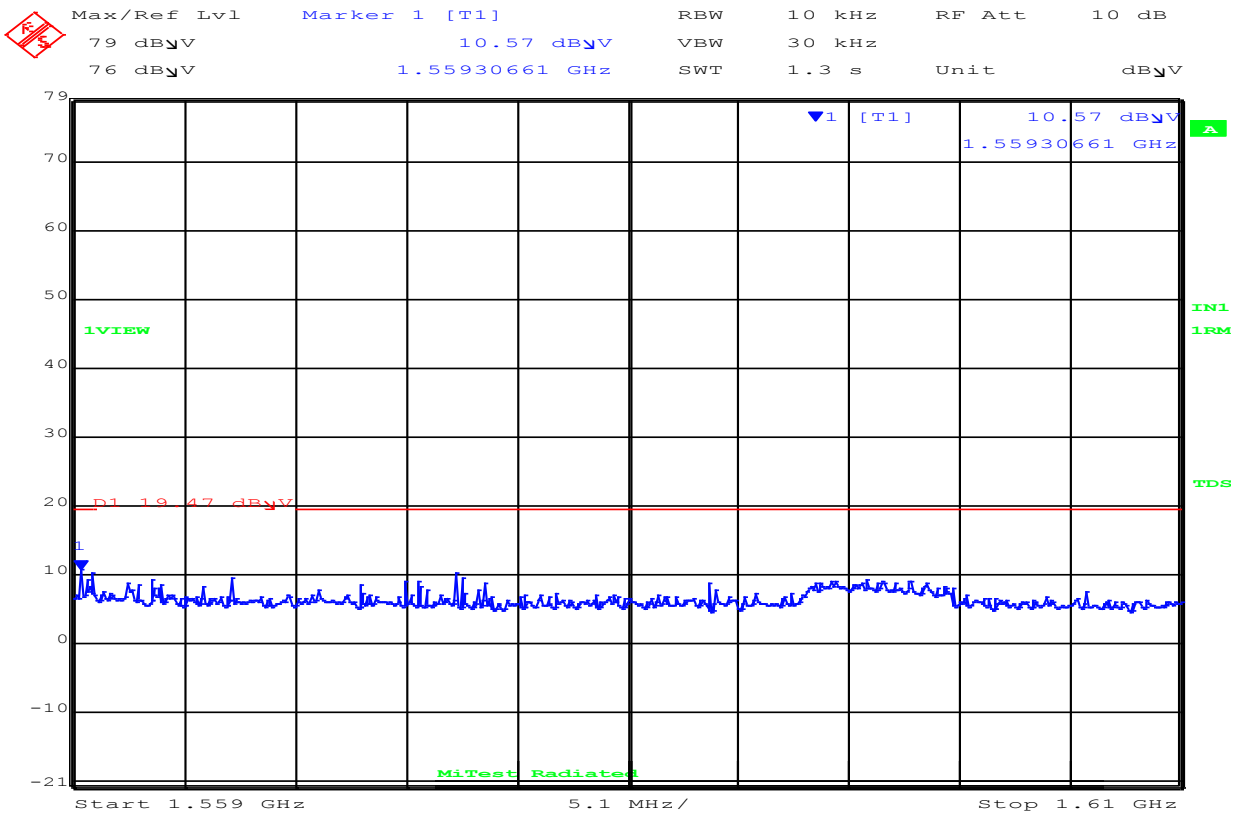
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 16:45:43

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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7128 MHz

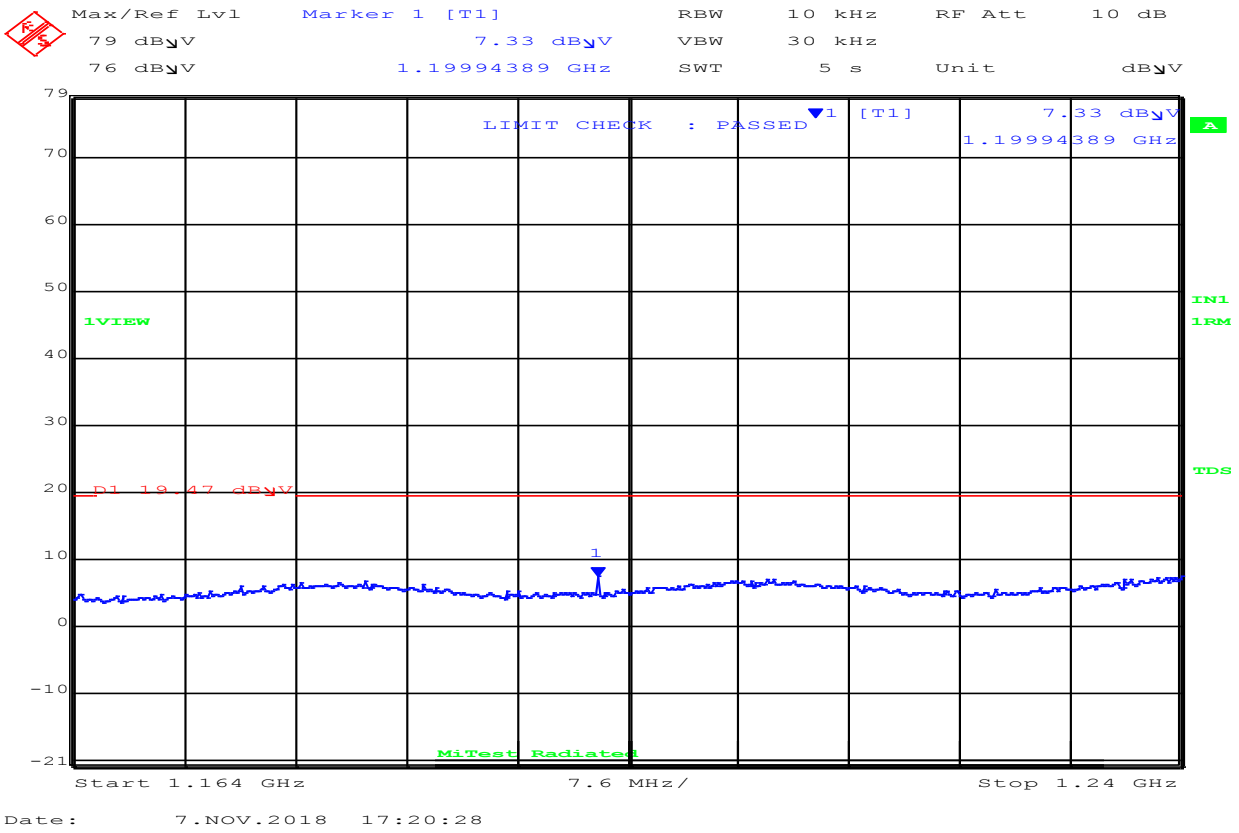
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

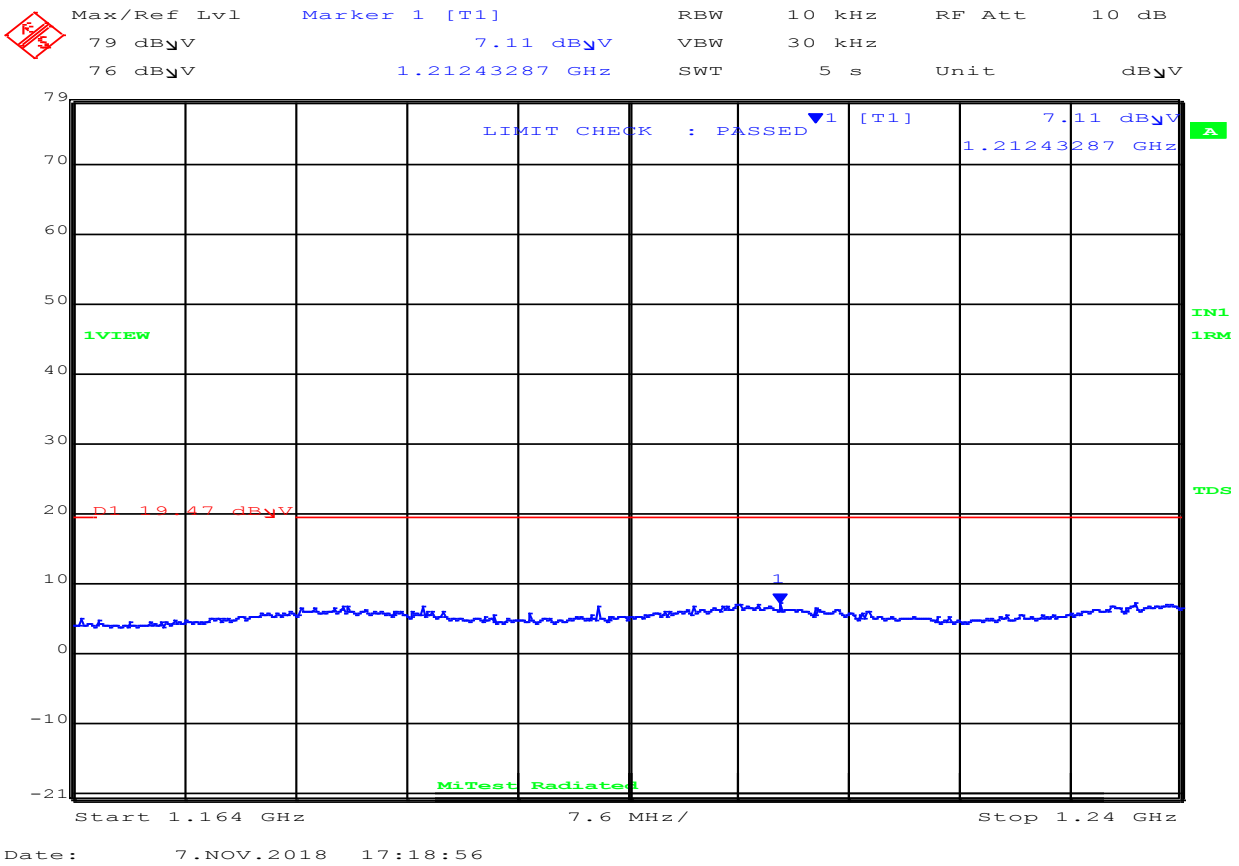
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:18:56

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

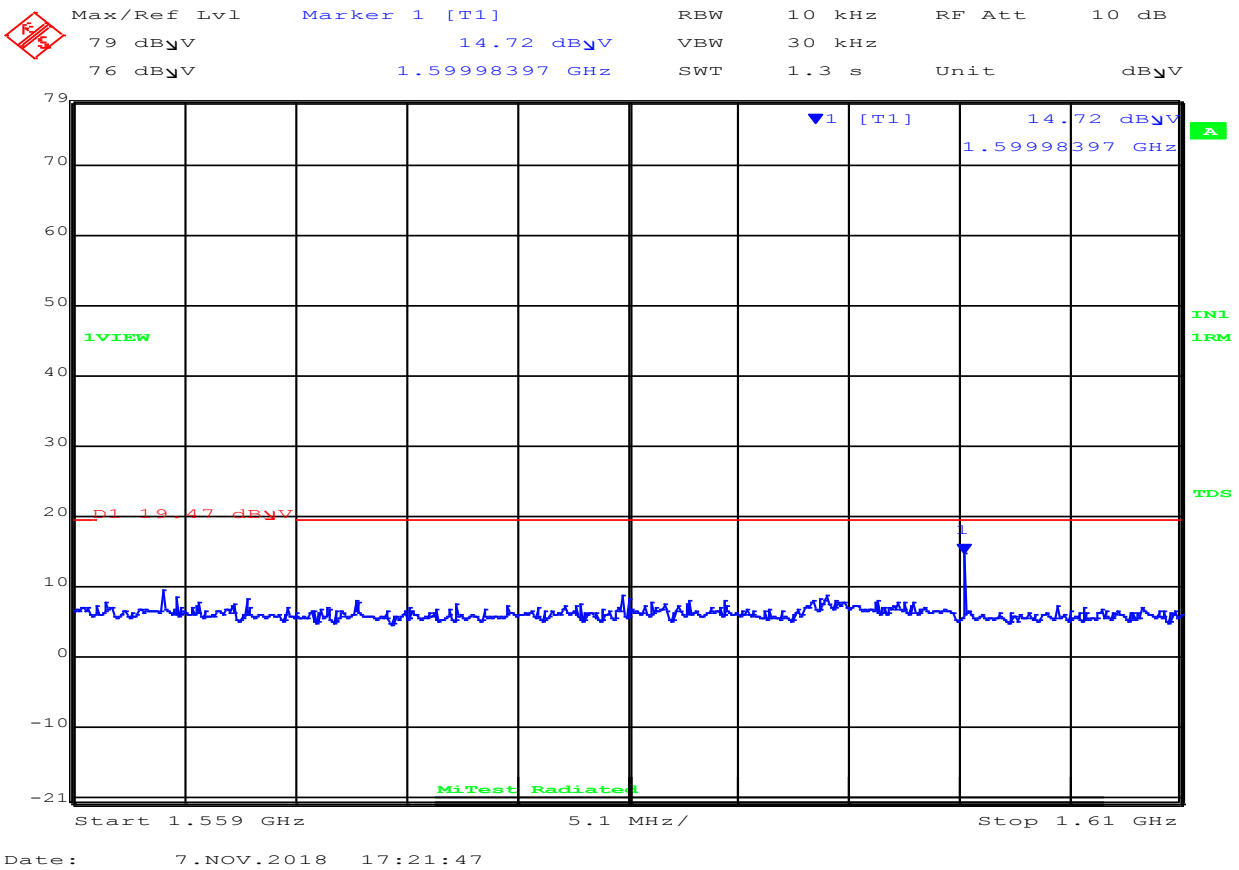
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	1.8*	Average	Horizontal	150	0	19.47	-3.8	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

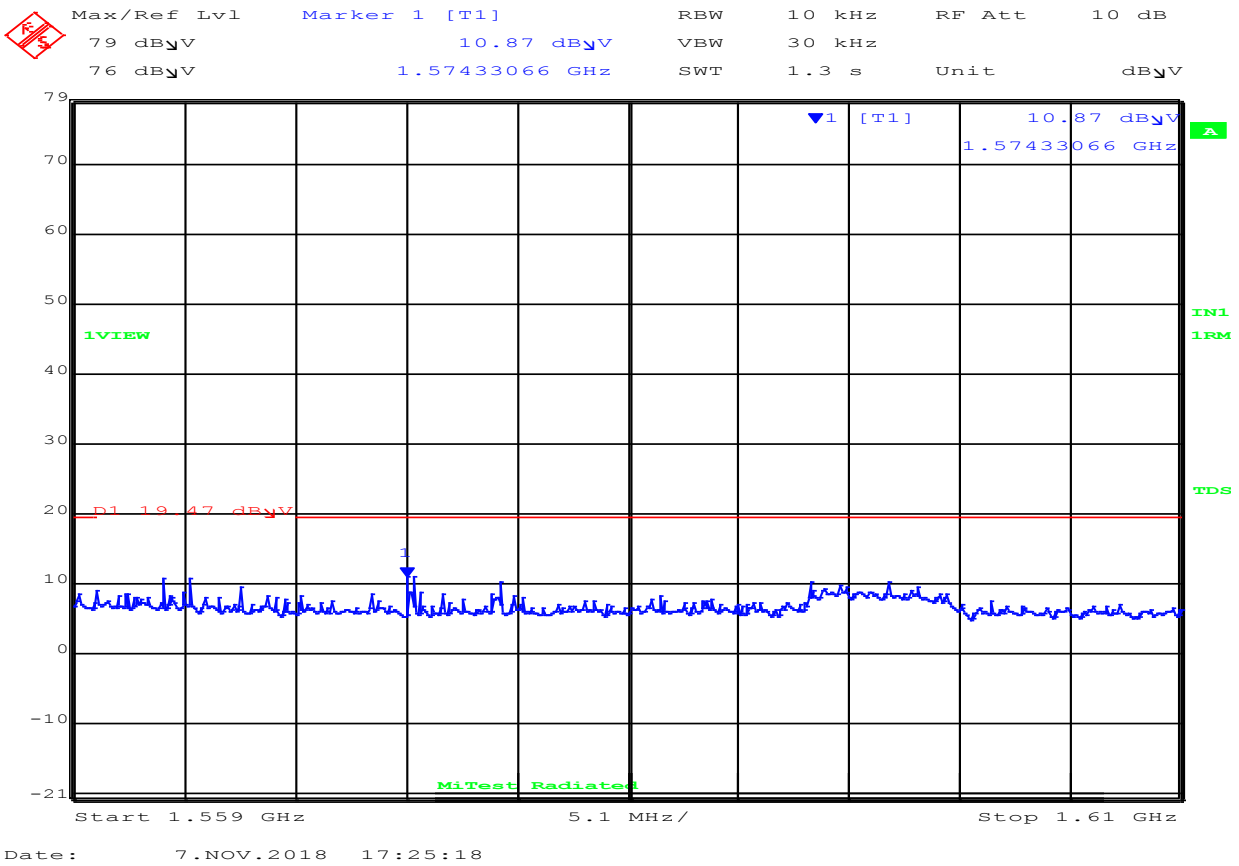
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:25:18

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

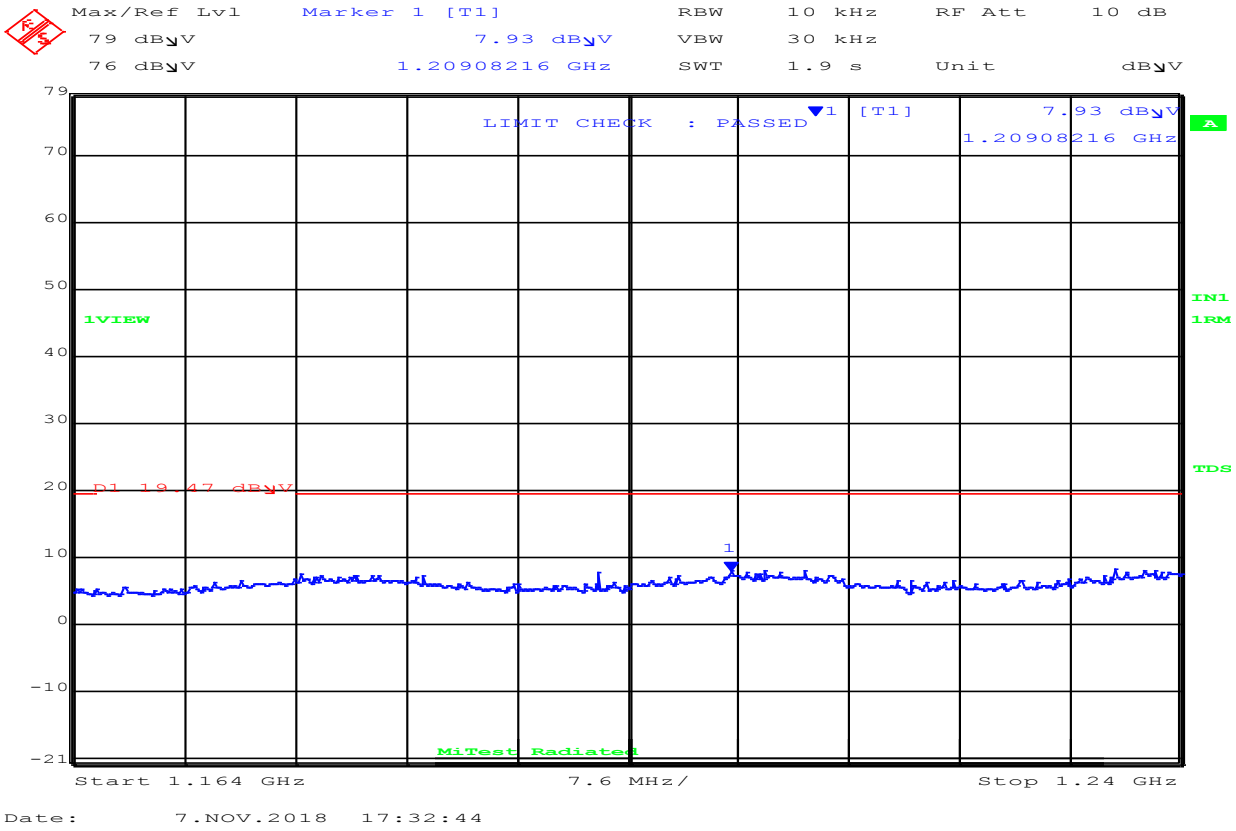
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

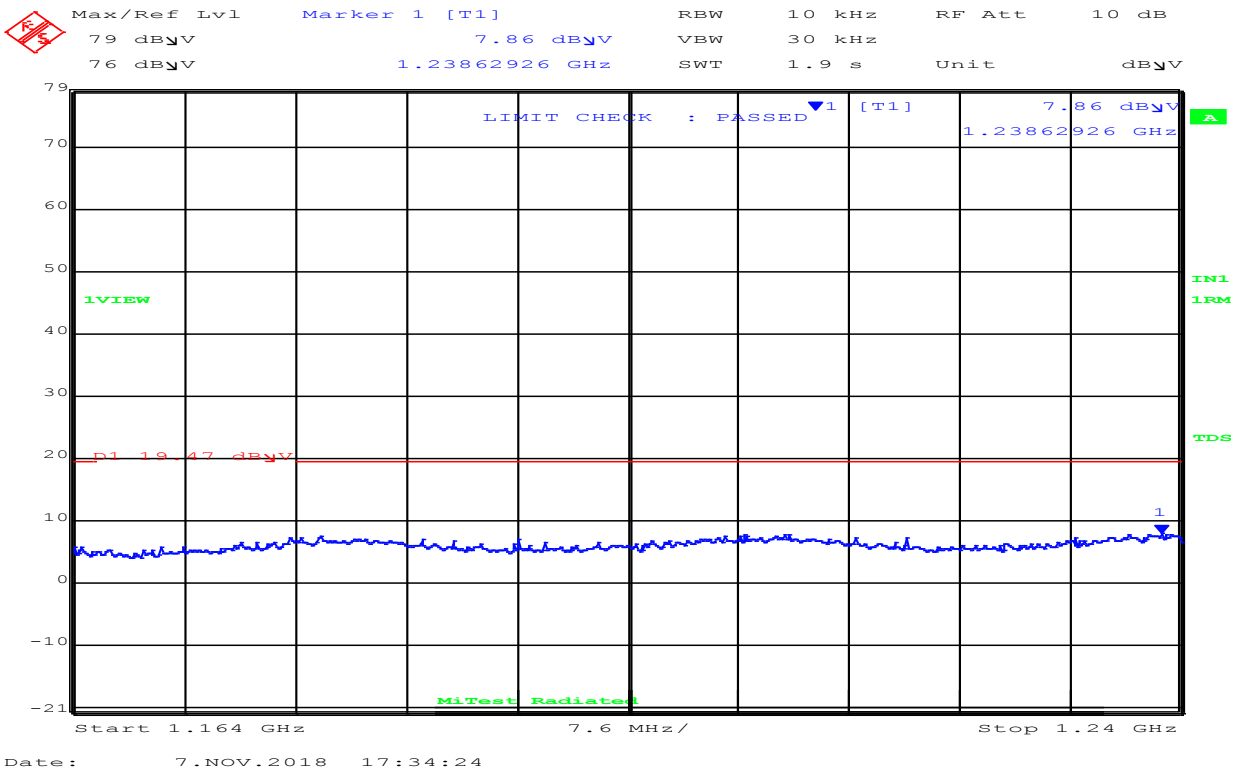
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

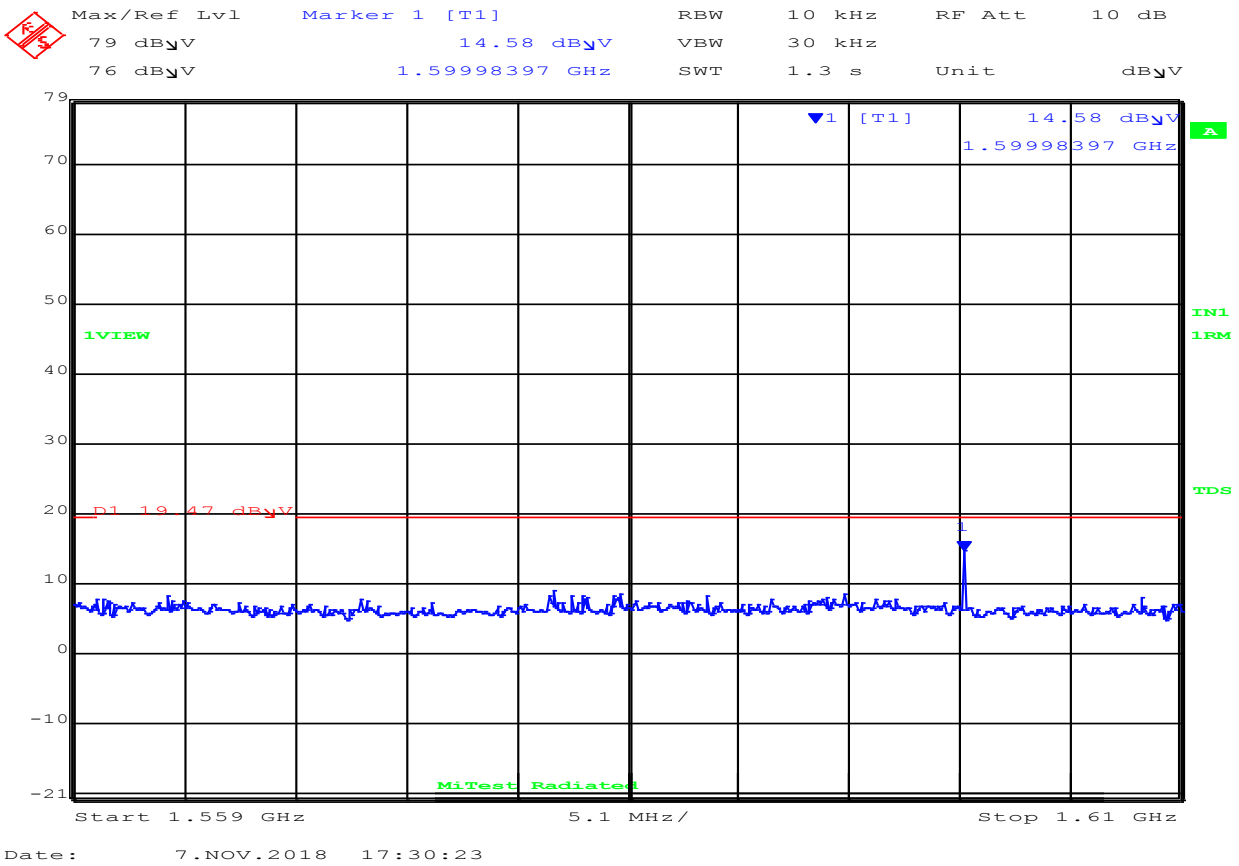
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:30:23

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	1.7*	Average	Horizontal	150	0	29.4	-3.8	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

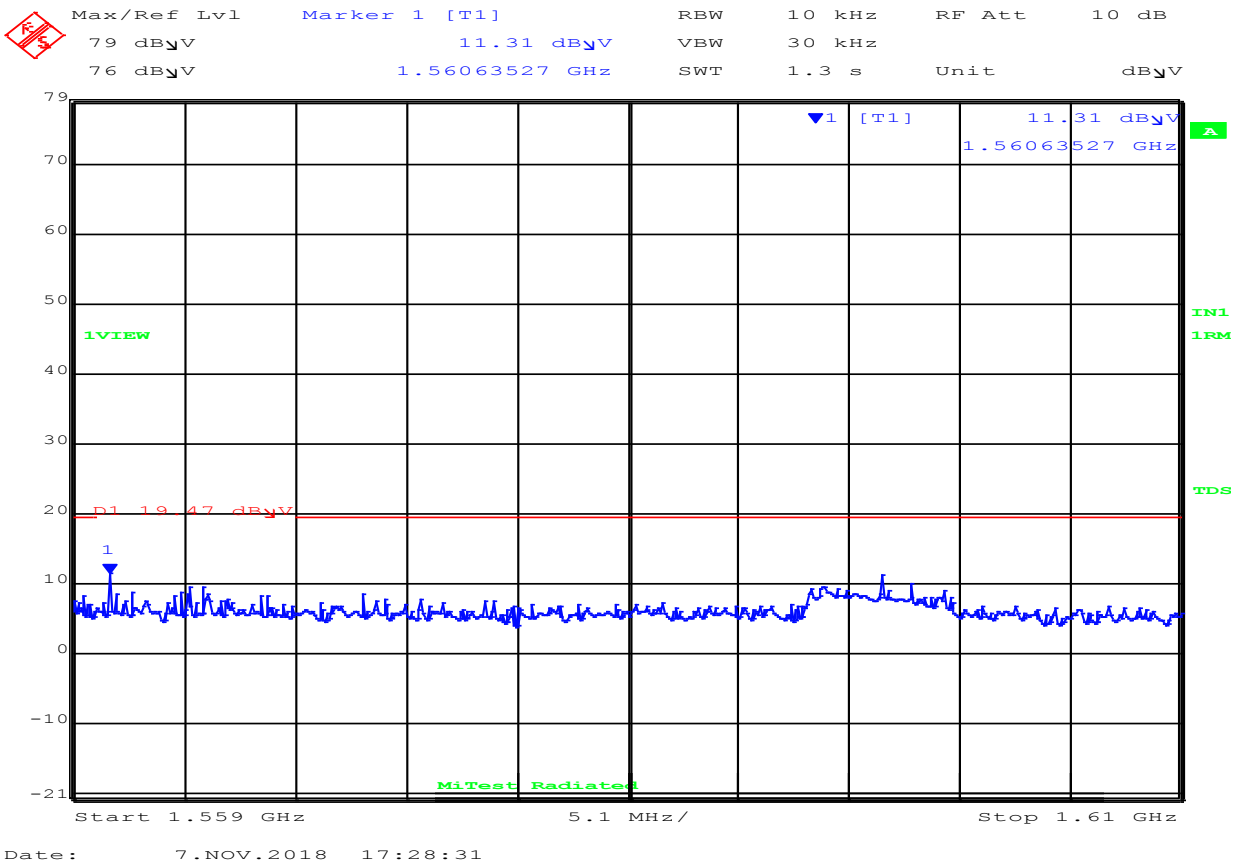
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:28:31

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

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8184 MHz

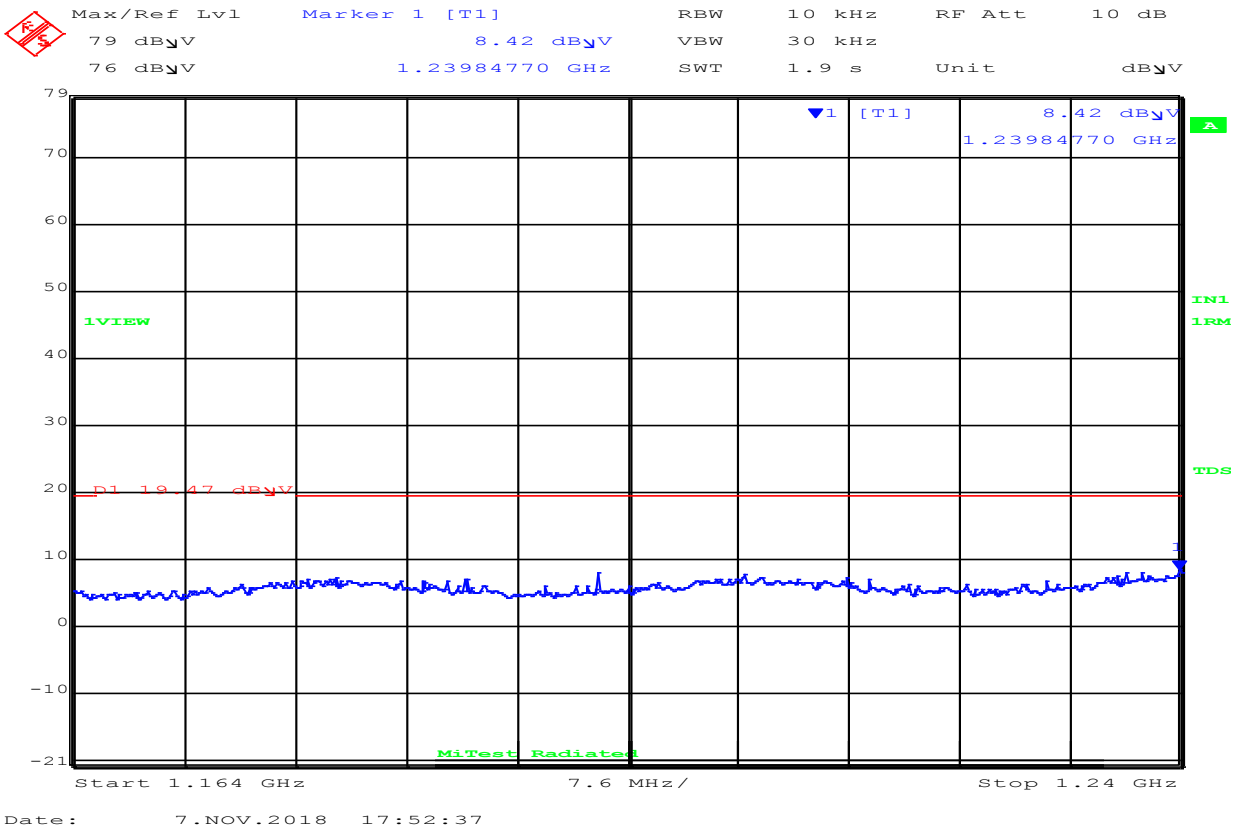
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

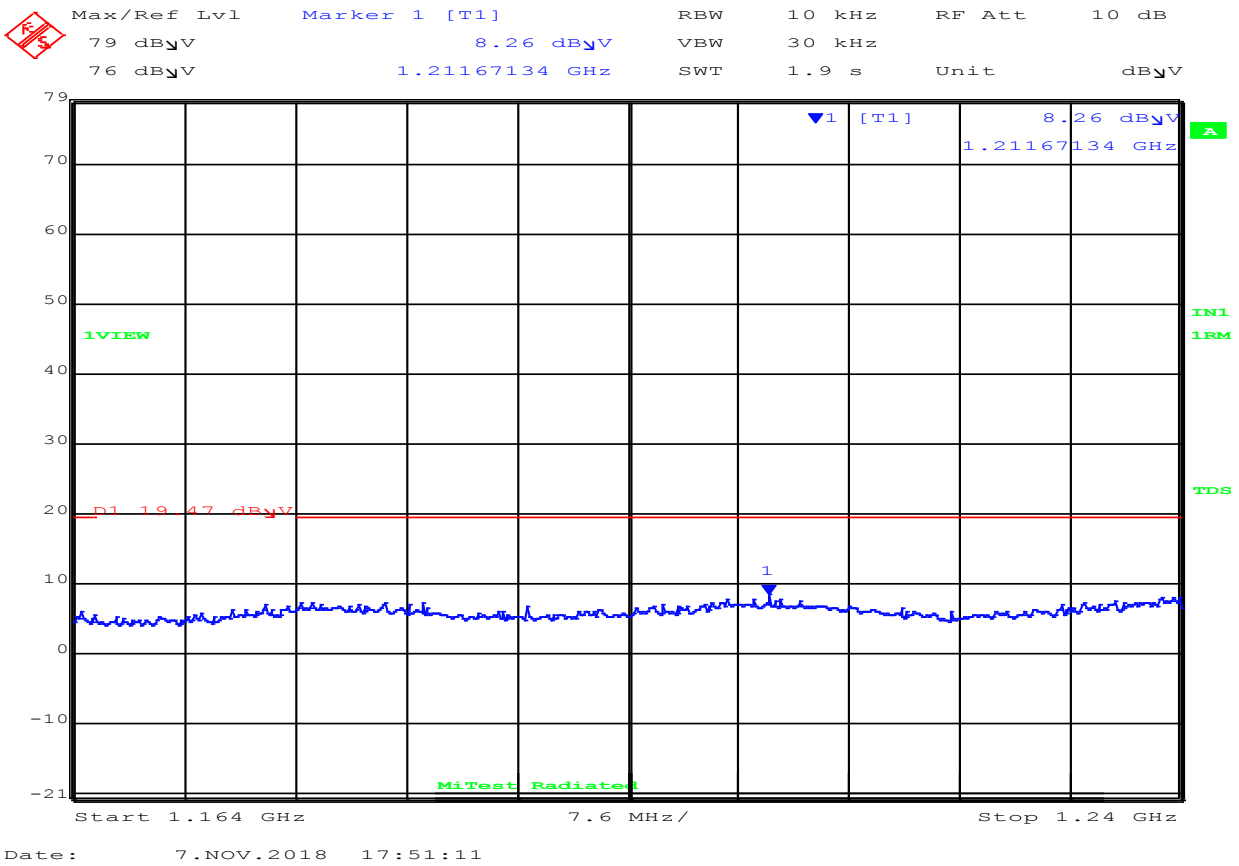
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:51:11

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

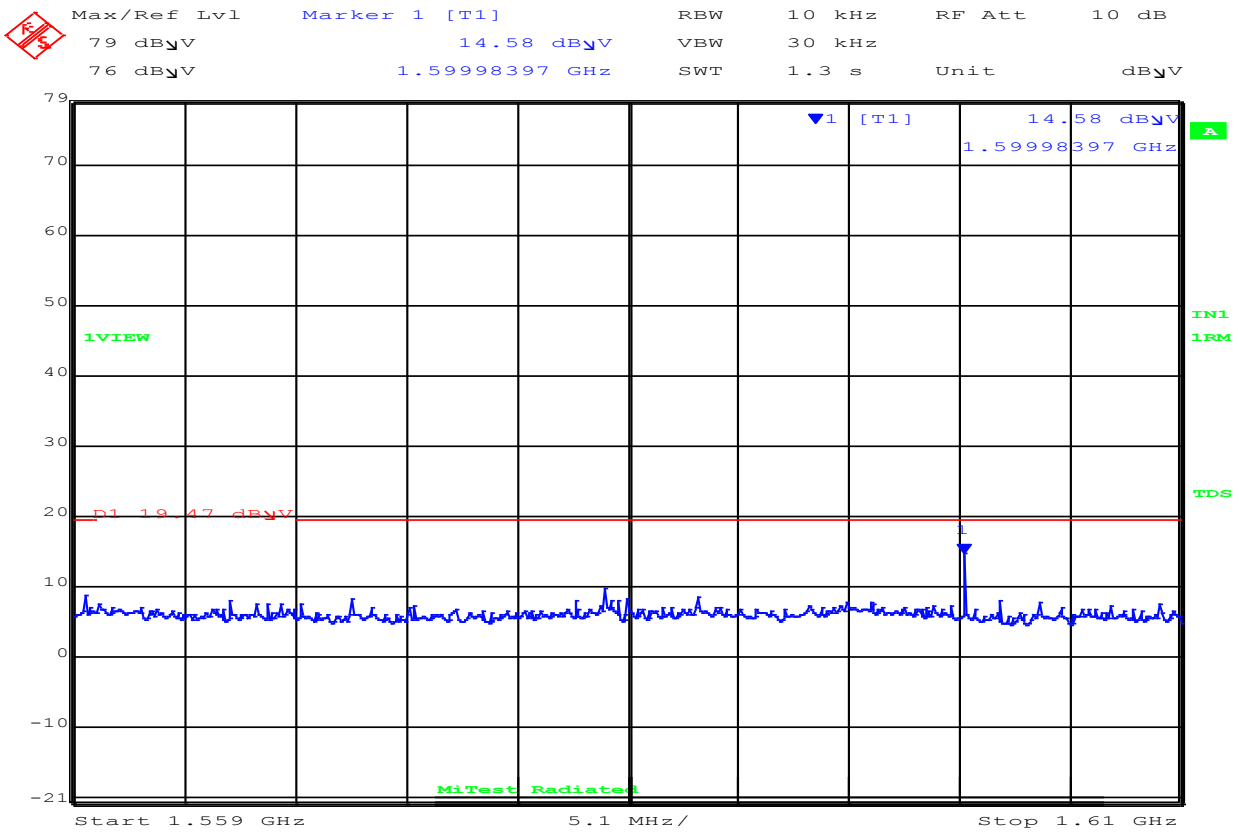
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	2.0*	Average	Horizontal	150	0	19.47	-17.5	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

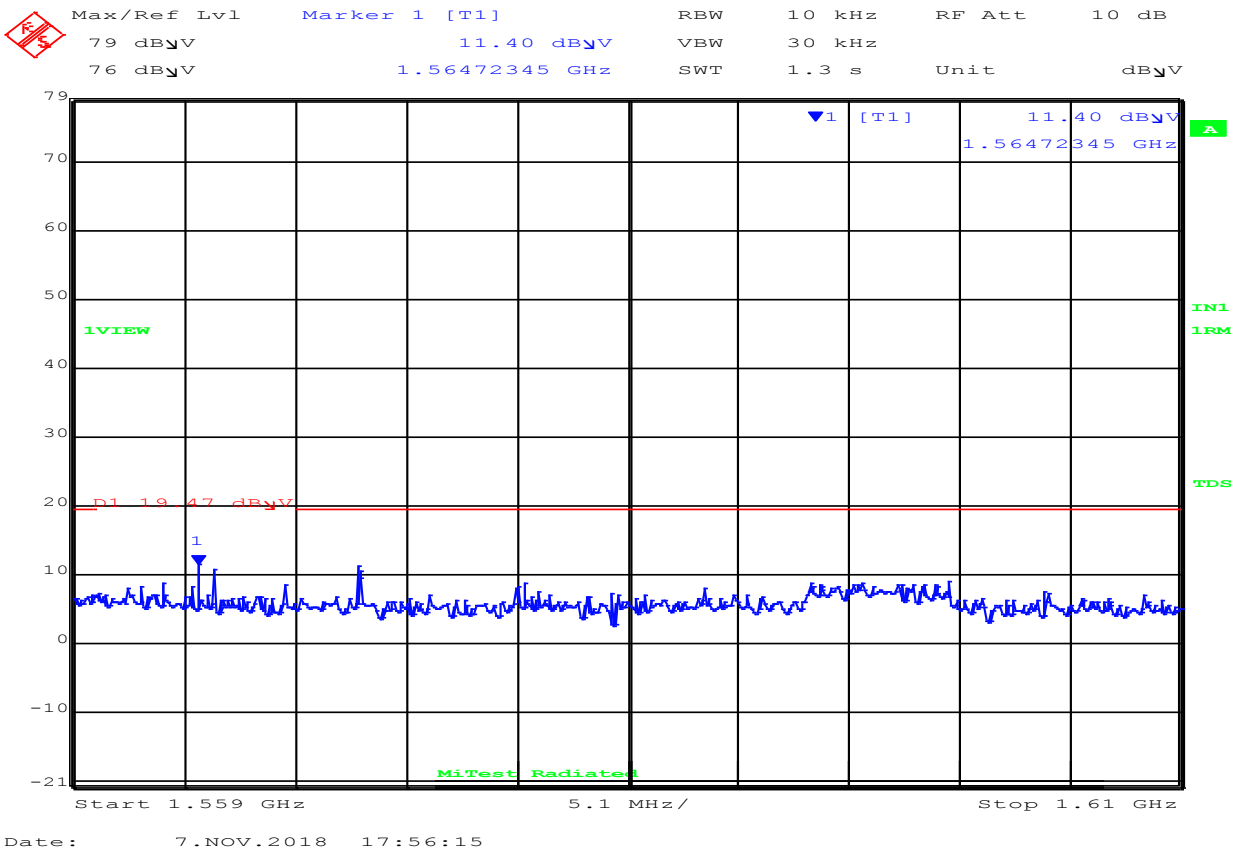
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

8712 MHz

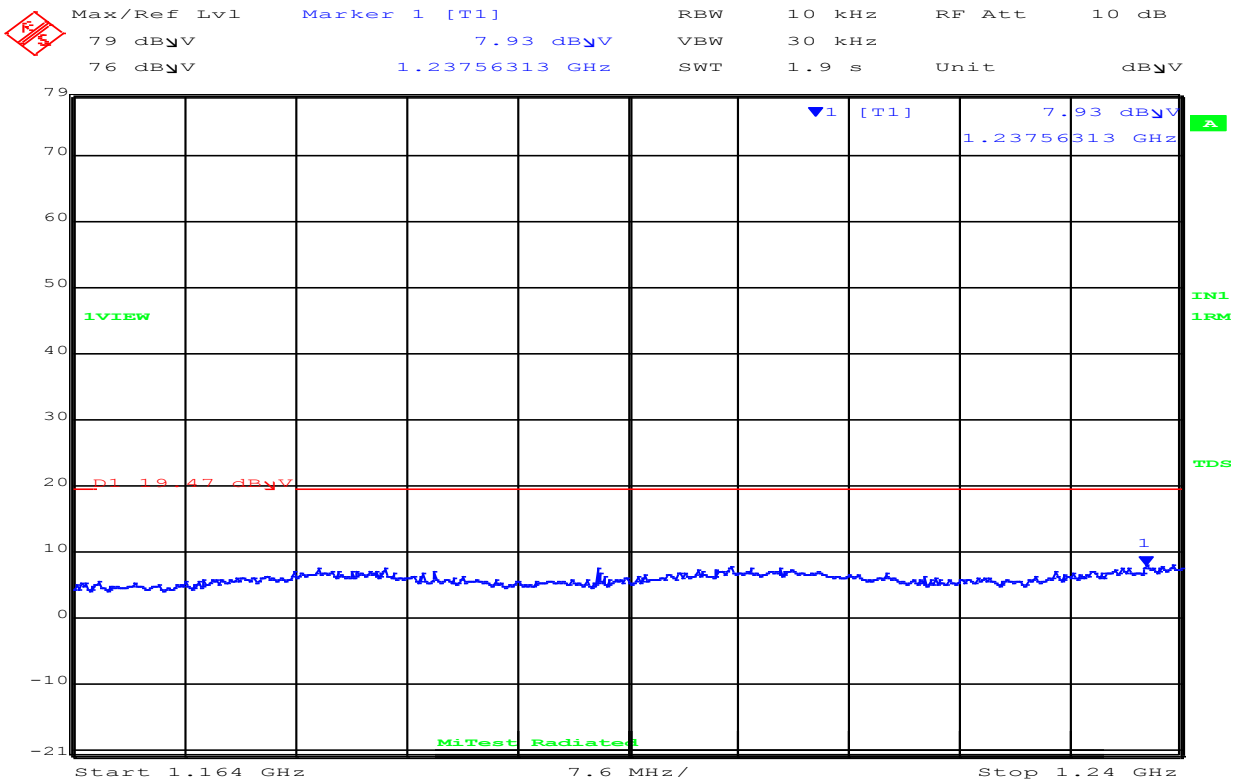
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 18:02:22

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

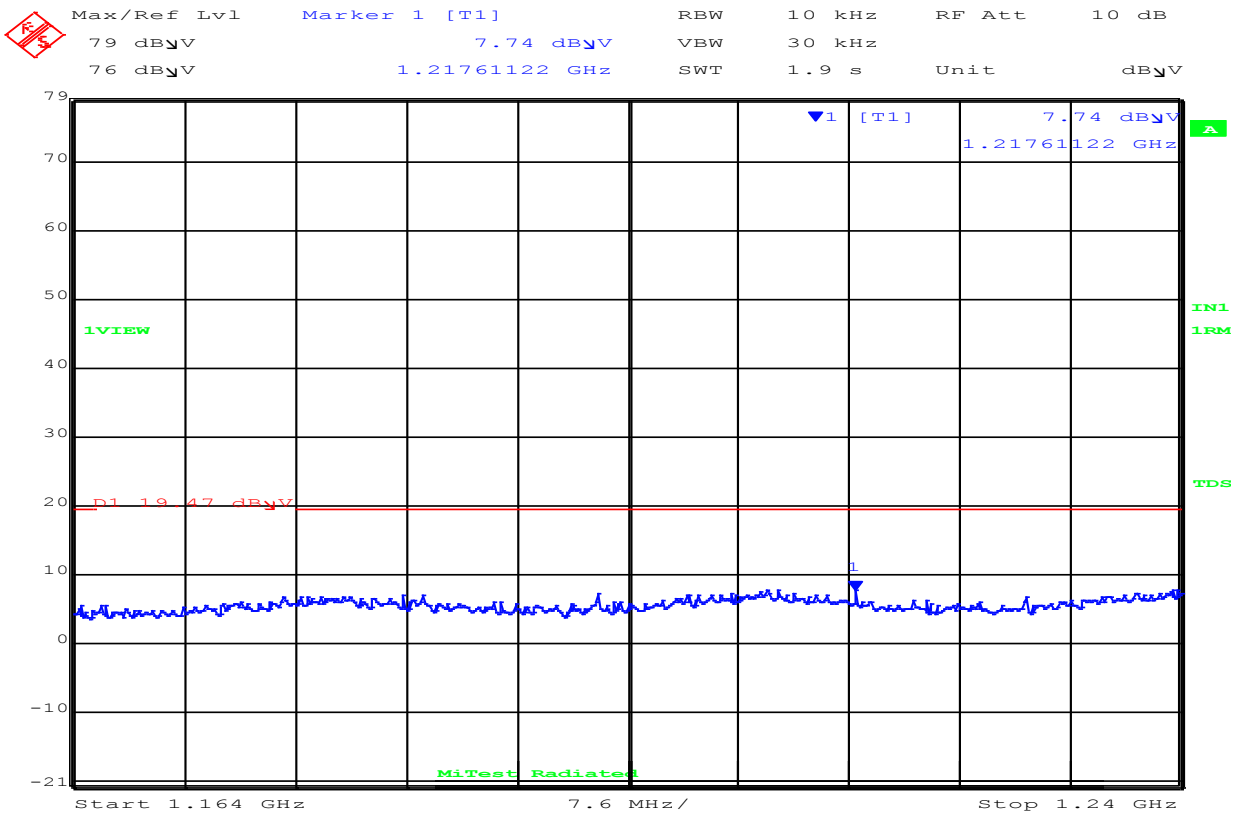
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 18:03:23

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

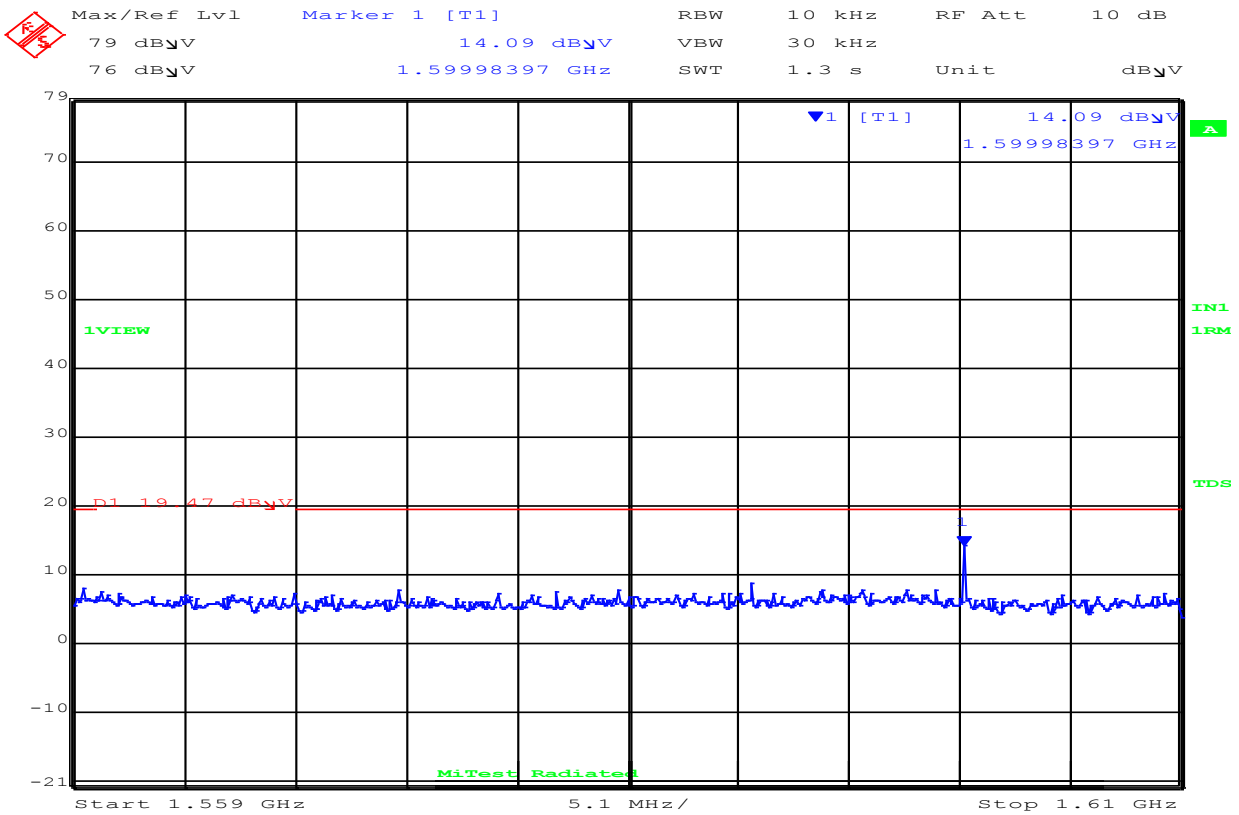
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:59:48

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
2	1599.98	2.1*	Average	Horizontal	150	0	19.47	-17.4	Pass

Test Notes:
Final Average measurements done with 1 KHz Receiver Bandwidth per standard

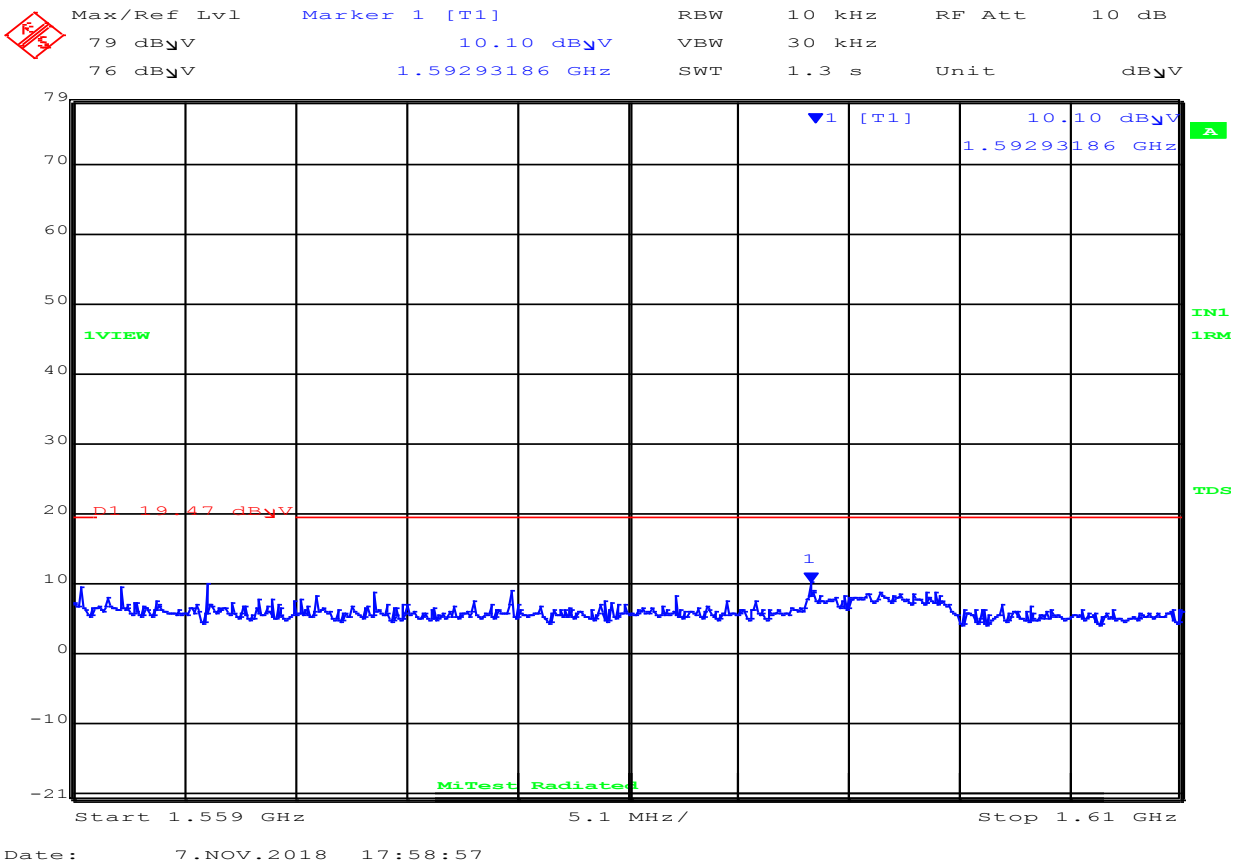
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 7.NOV.2018 17:58:57

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop Removed

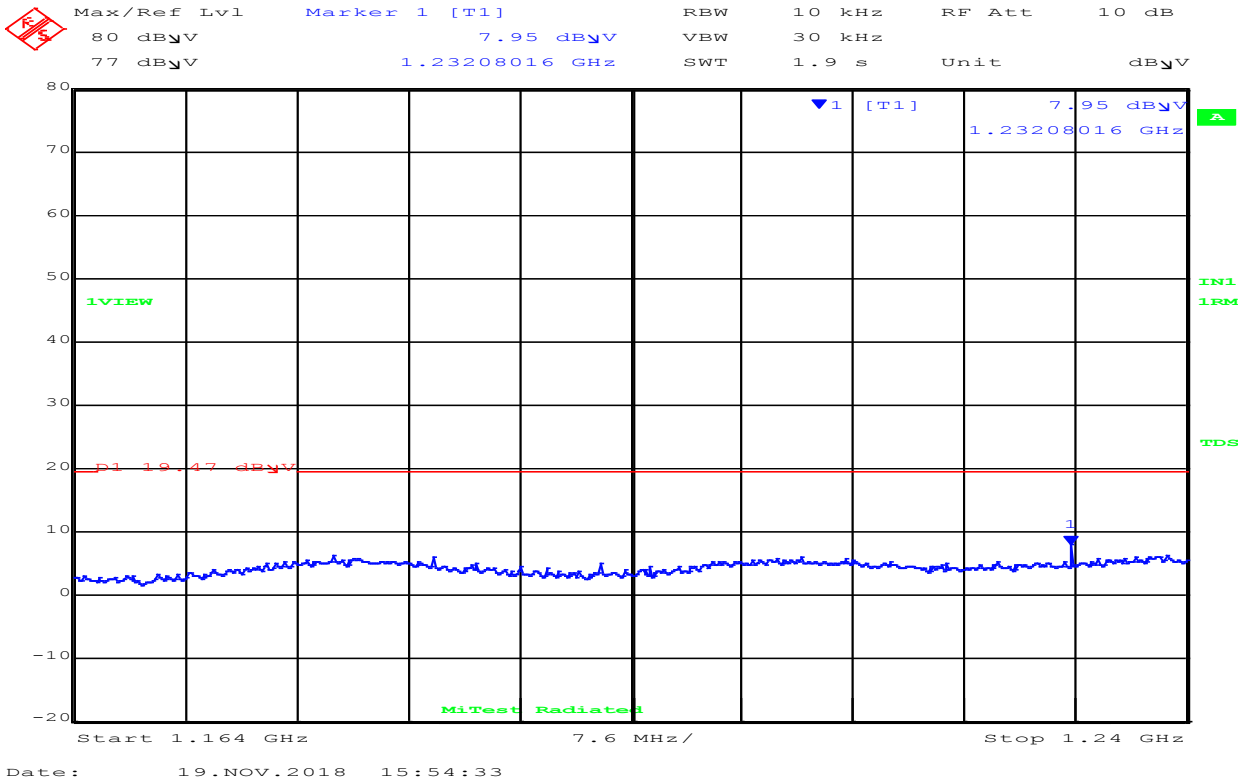
9.4.2.3. Combat AL5934

3432 MHz

Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Test Measurement Results

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

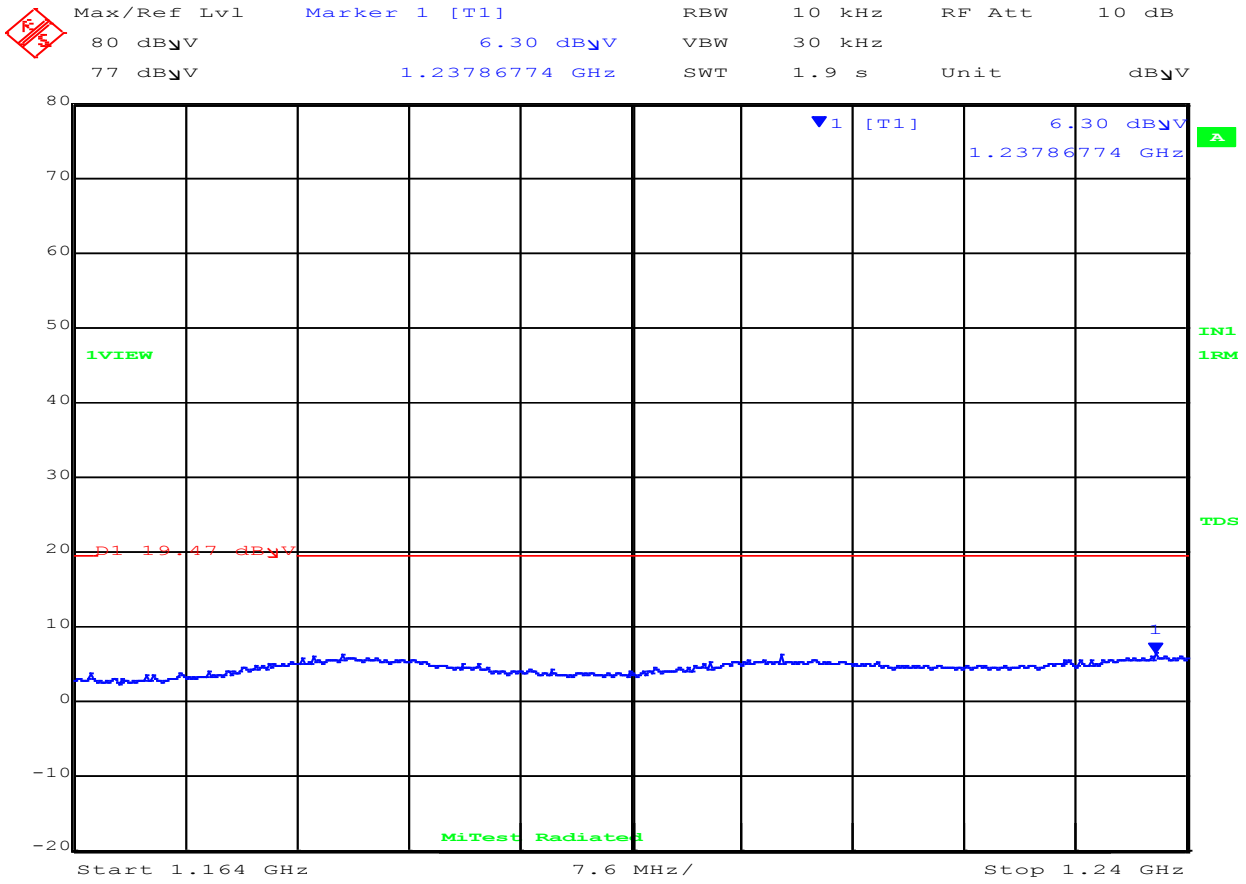
Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Test Measurement Results

Num	Frequency MHz	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1164.00-1240.00 MHz									
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

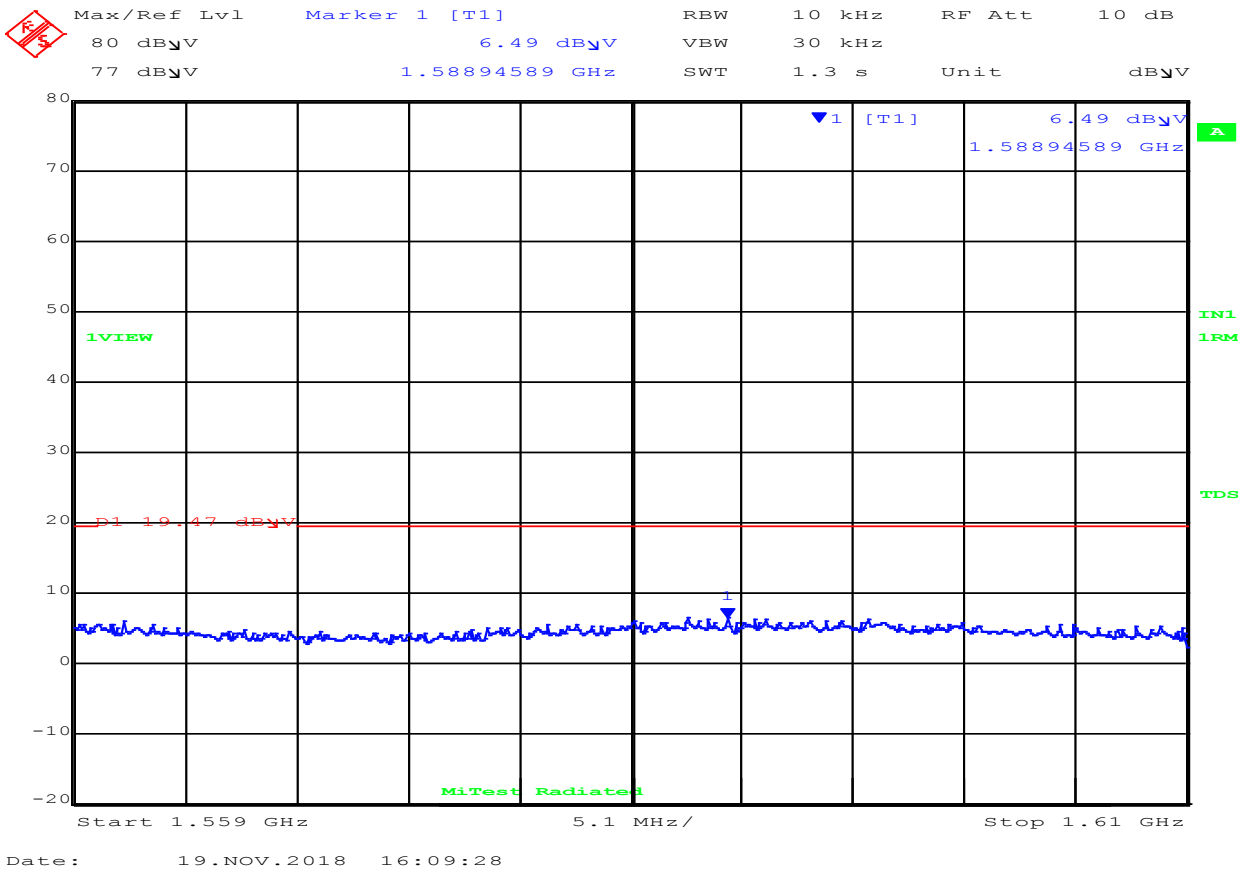
Equipment Configuration for Spurious Emissions1.559-1.610GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

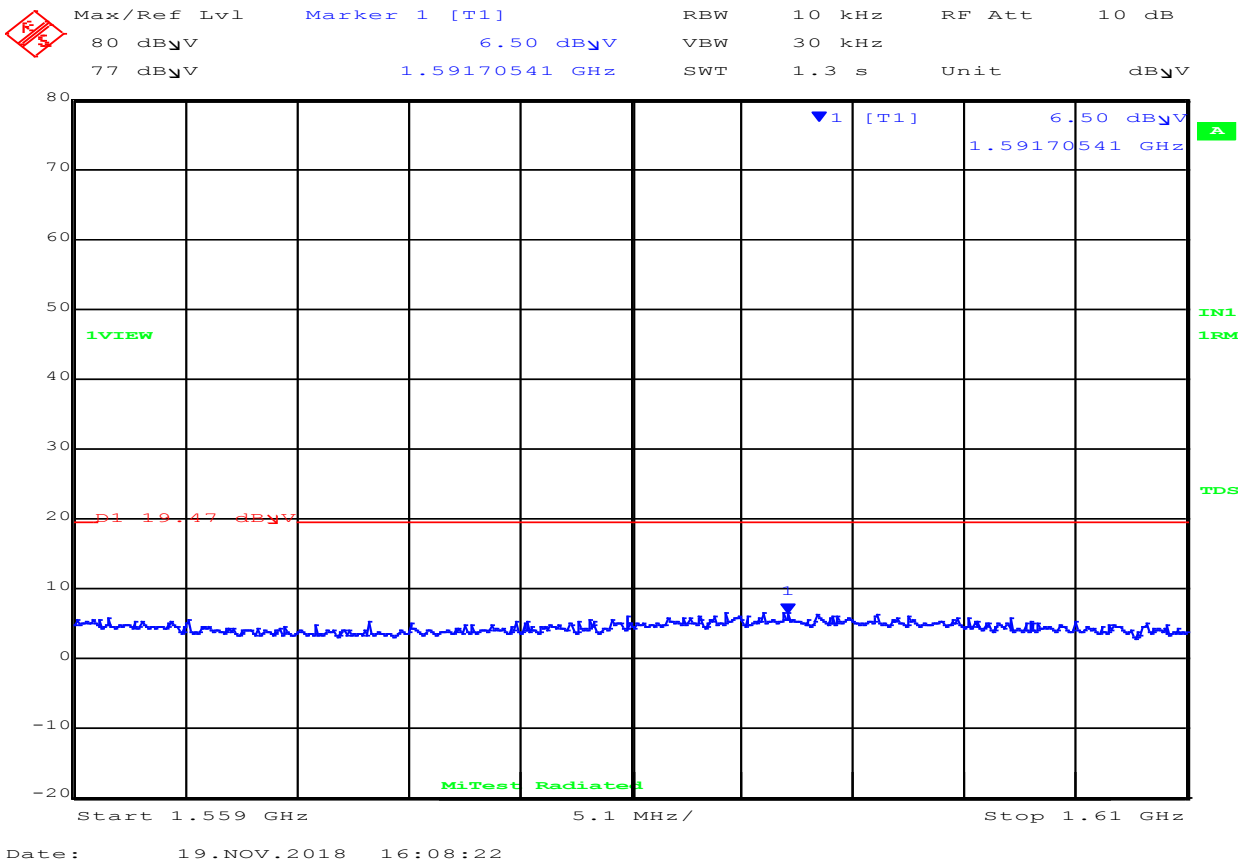
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

3960 MHz

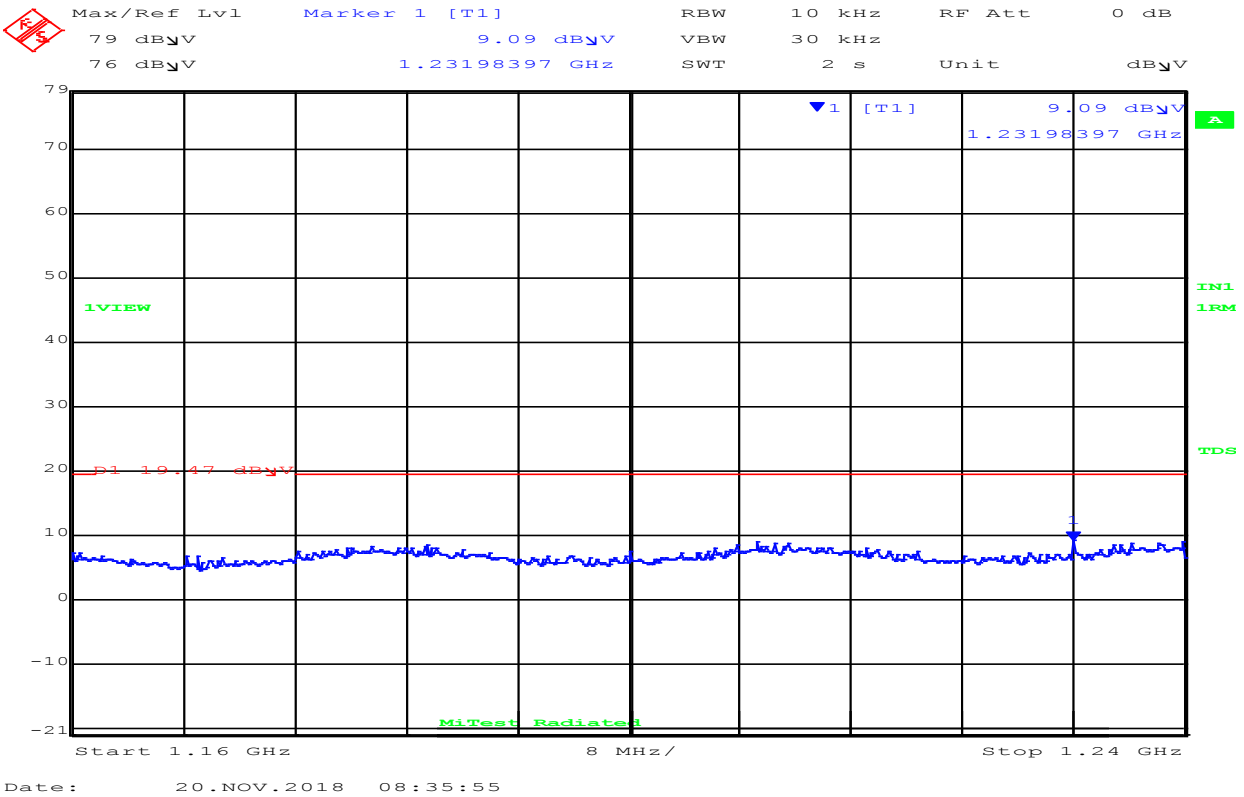
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

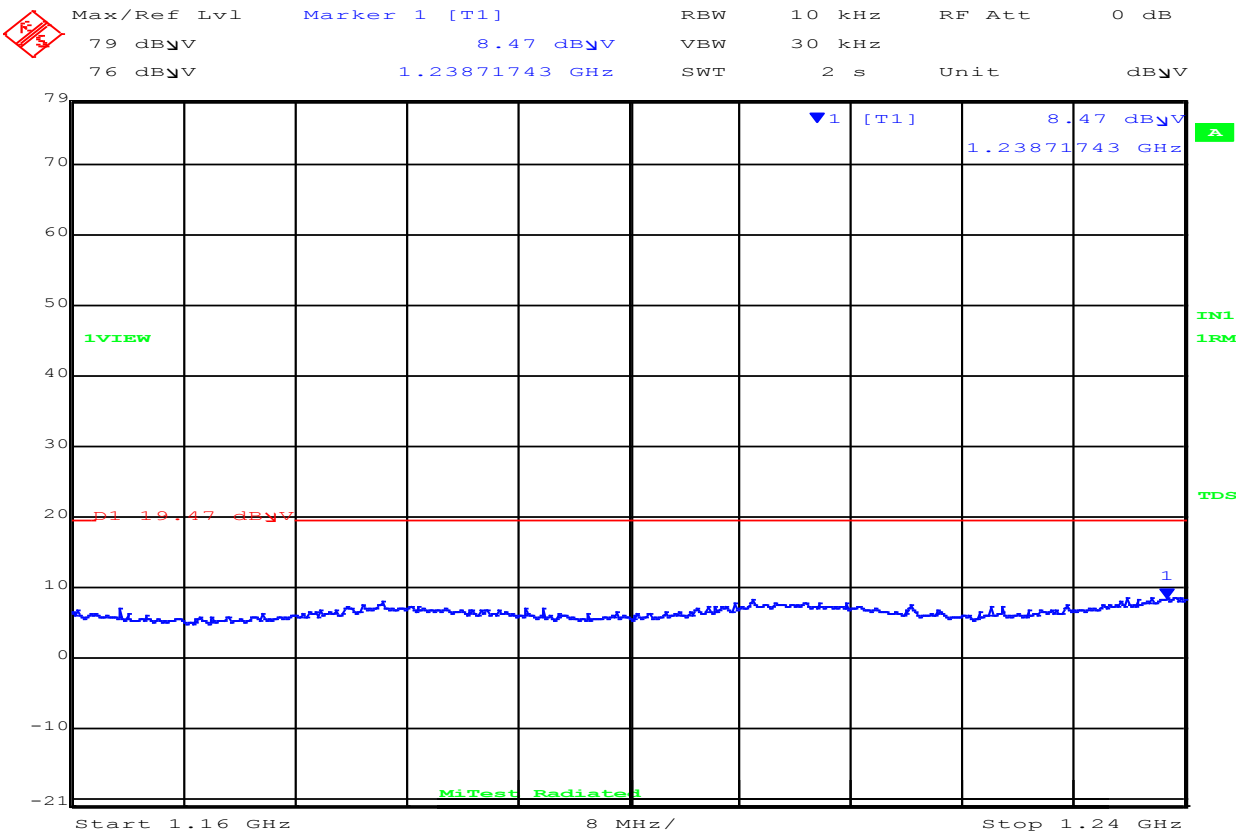
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 08:39:30

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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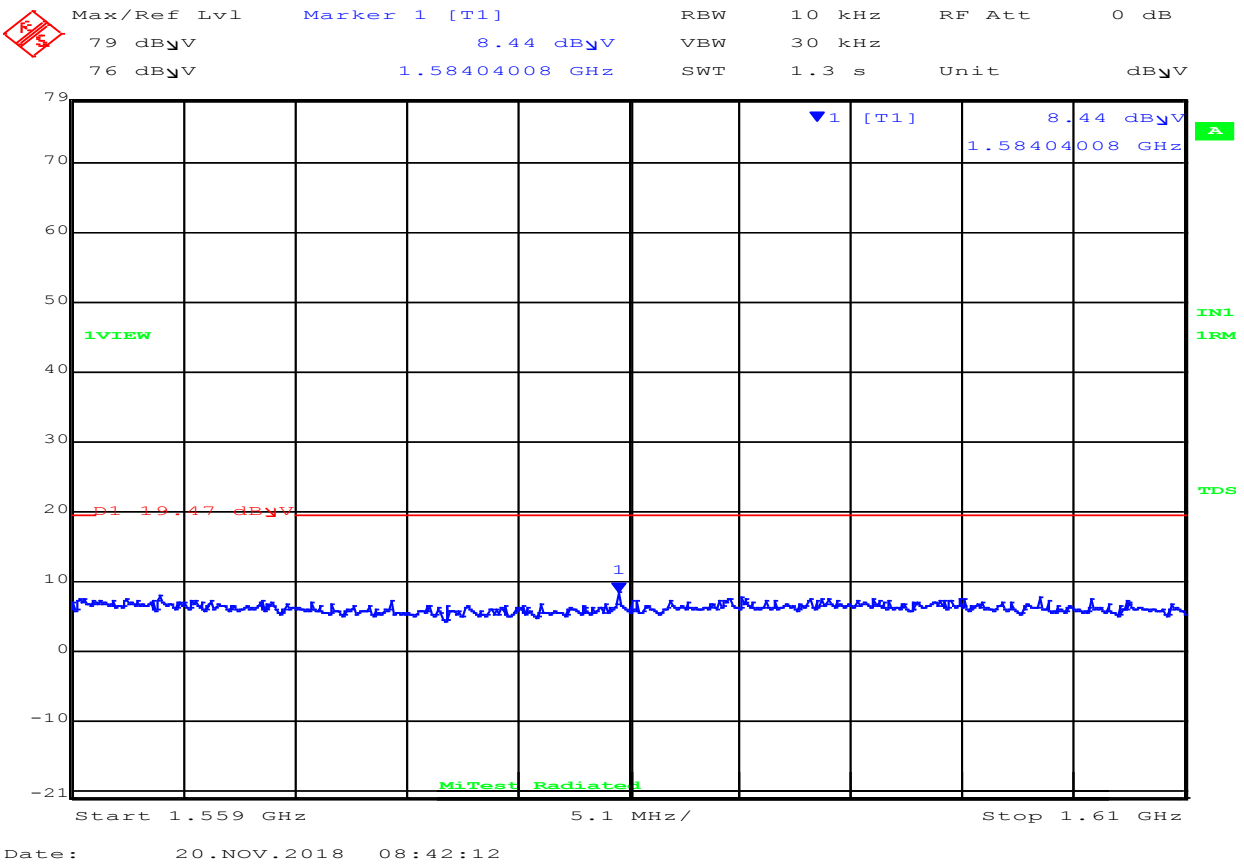
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

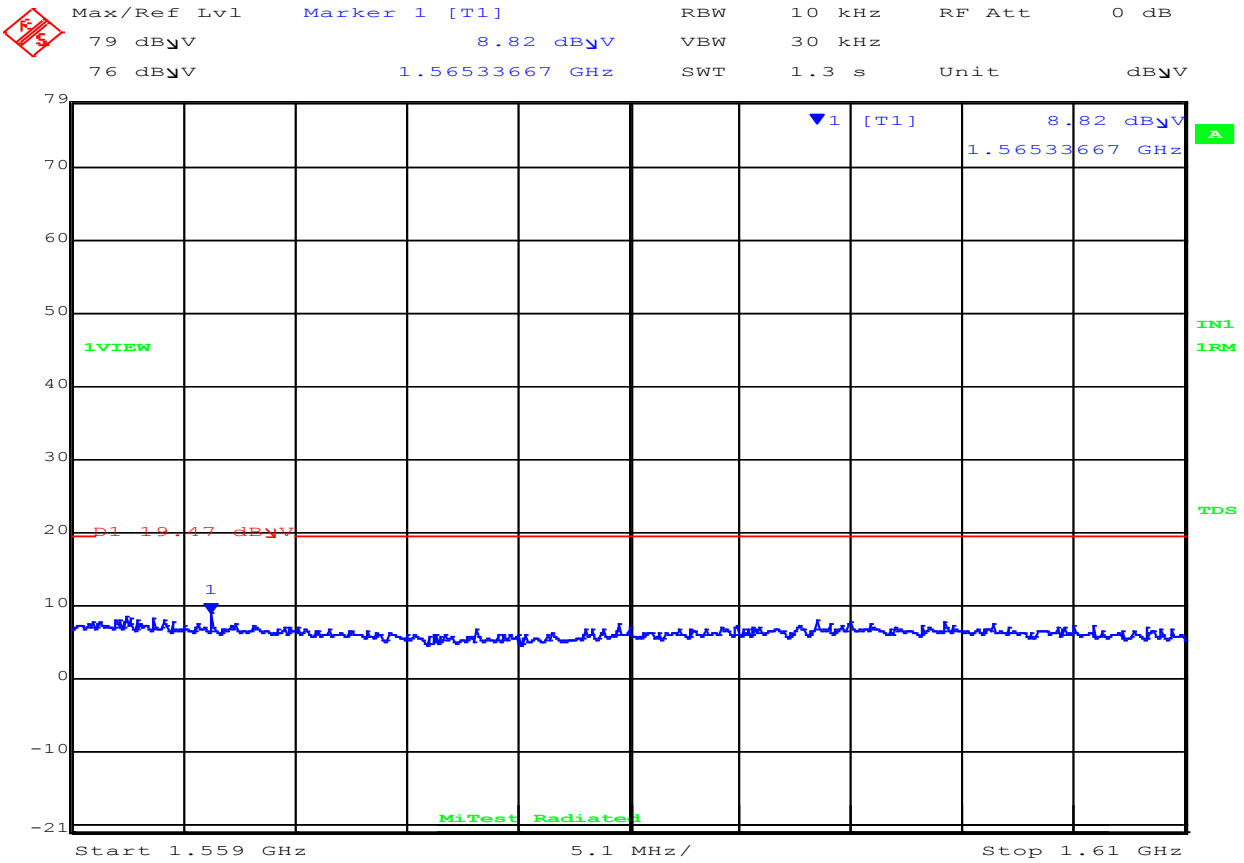
Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Test Measurement Results

Num	Frequency MHz	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1559.00-1610.00 MHz									
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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4488 MHz

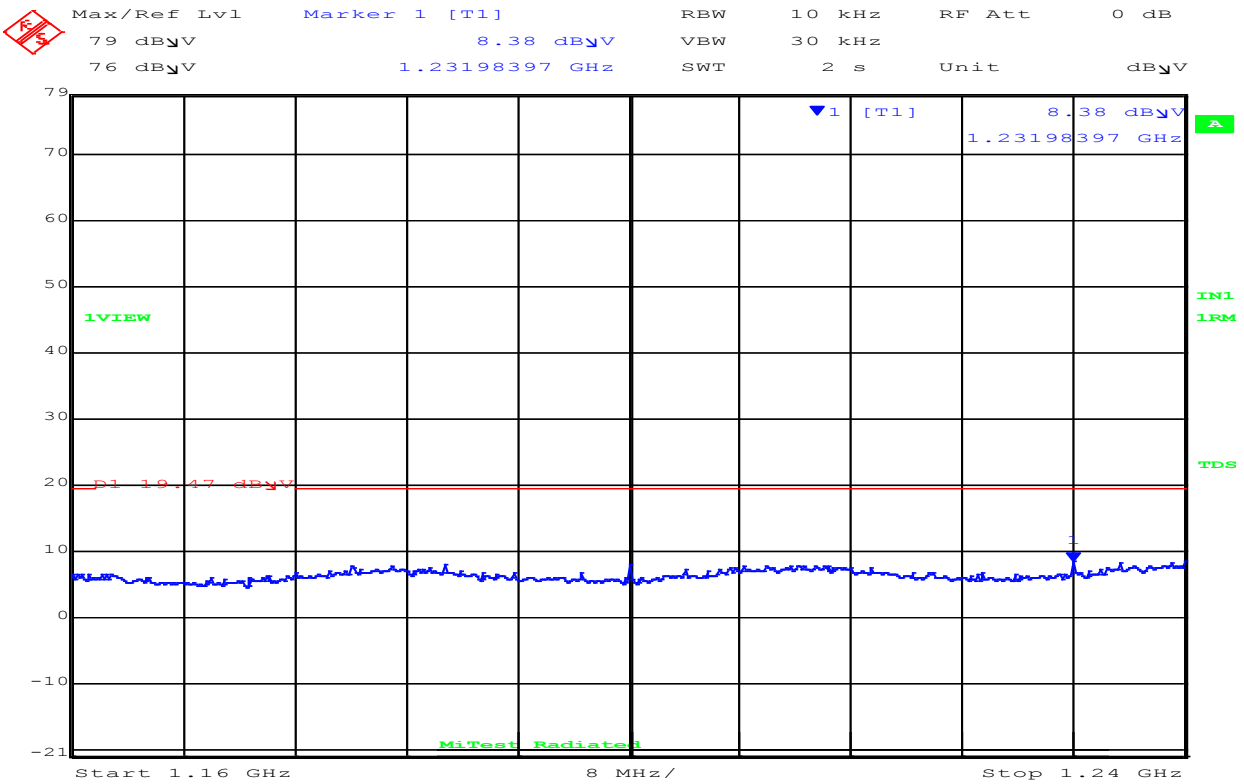
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 10:22:27

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

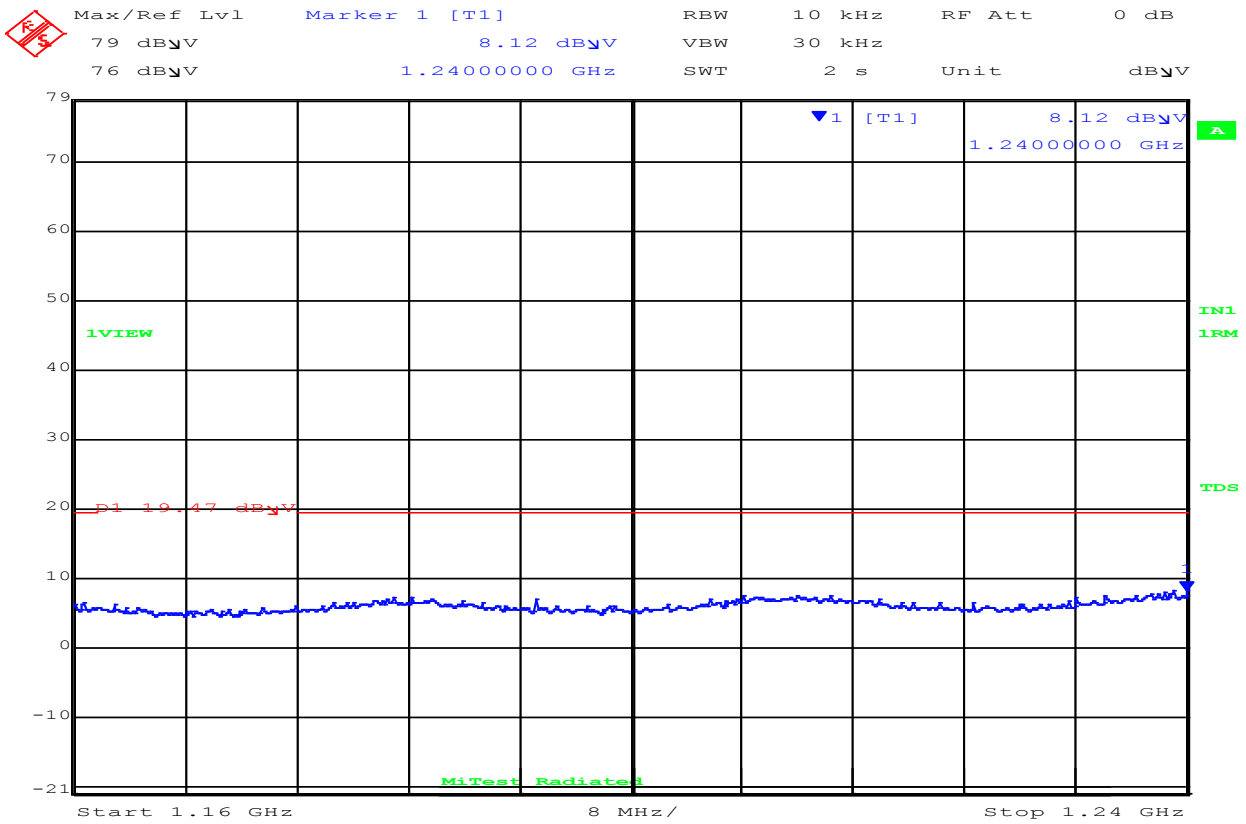
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

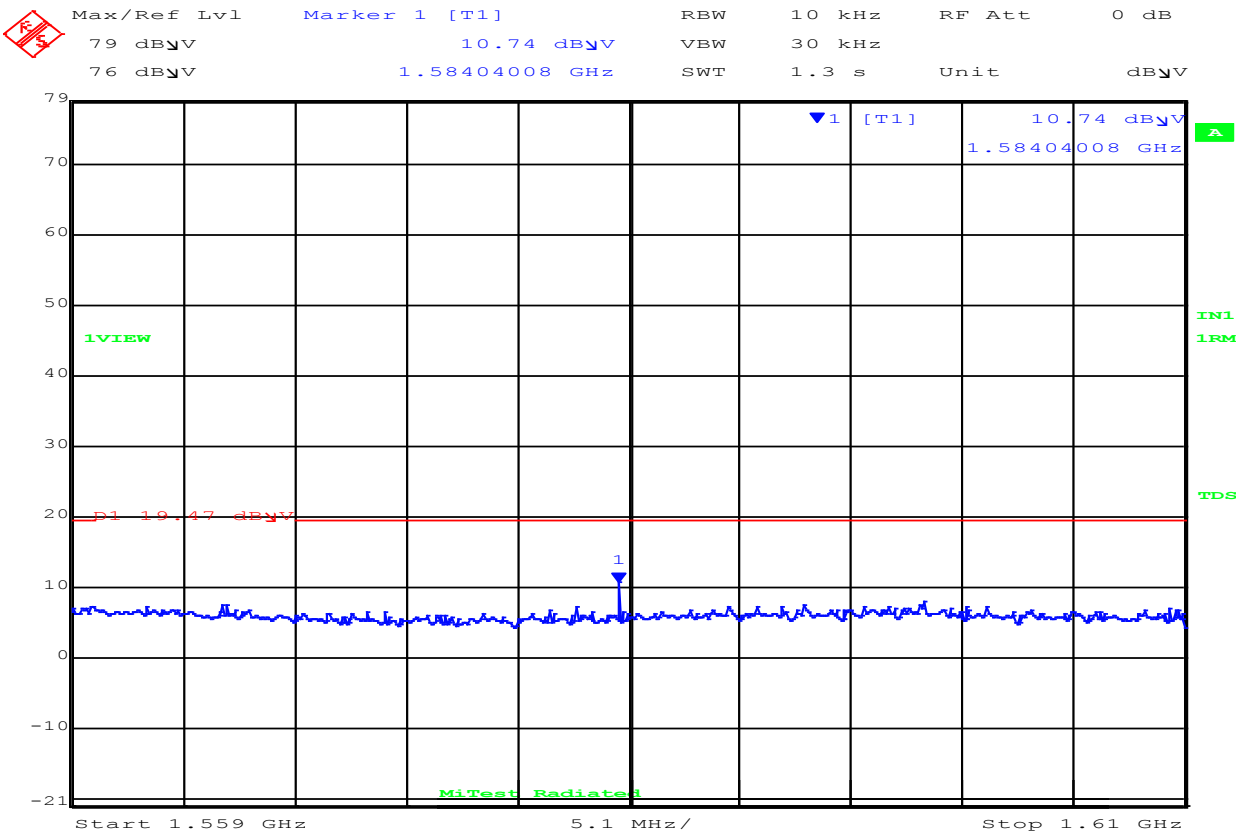
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



Date: 20.NOV.2018 10:25:41

1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

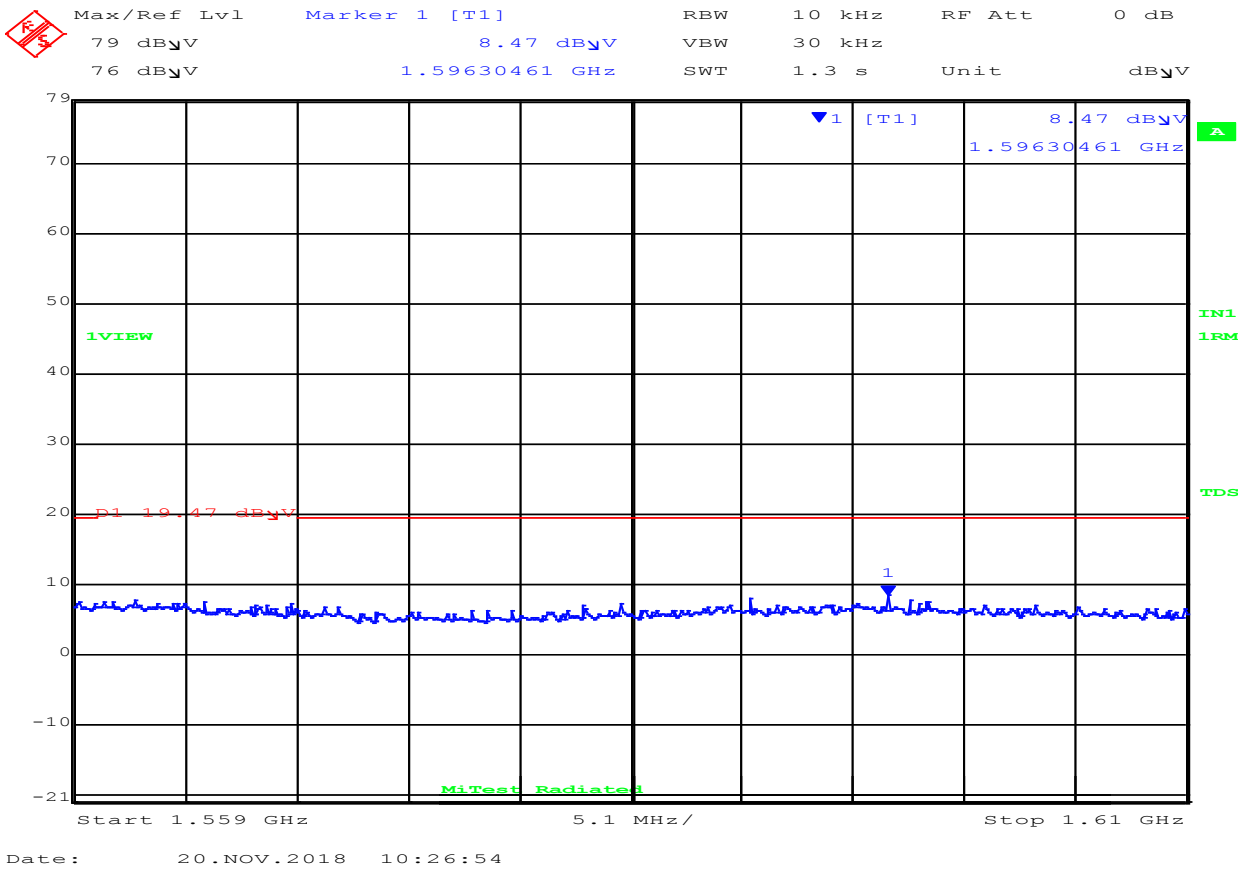
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

6600 MHz

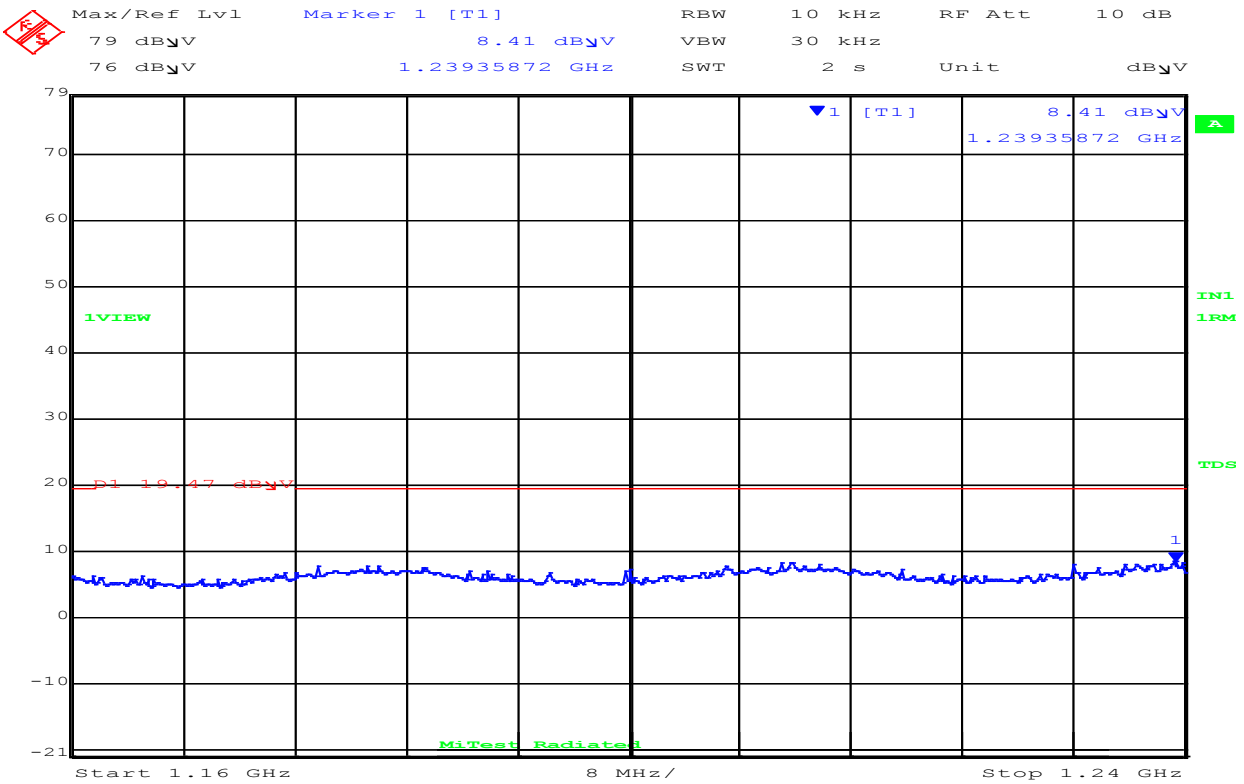
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 20.NOV.2018 11:37:20

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

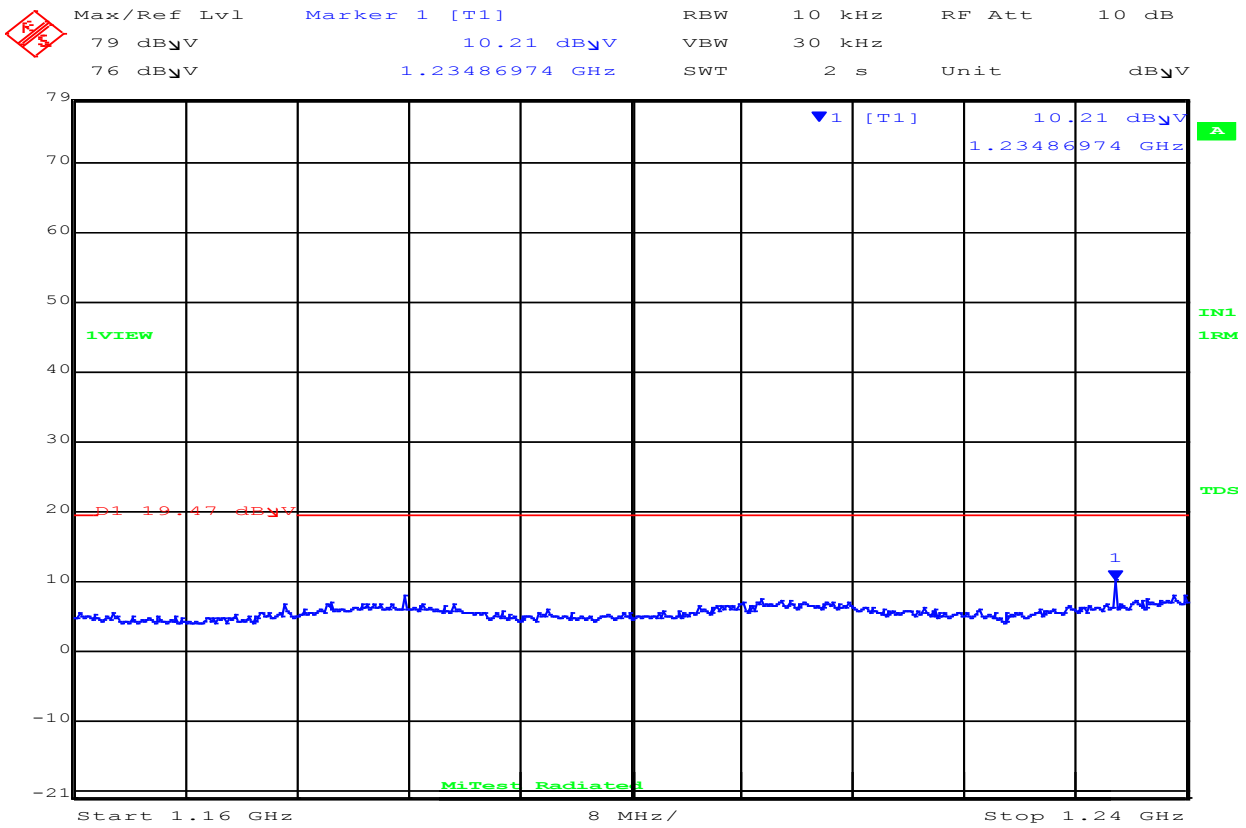
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

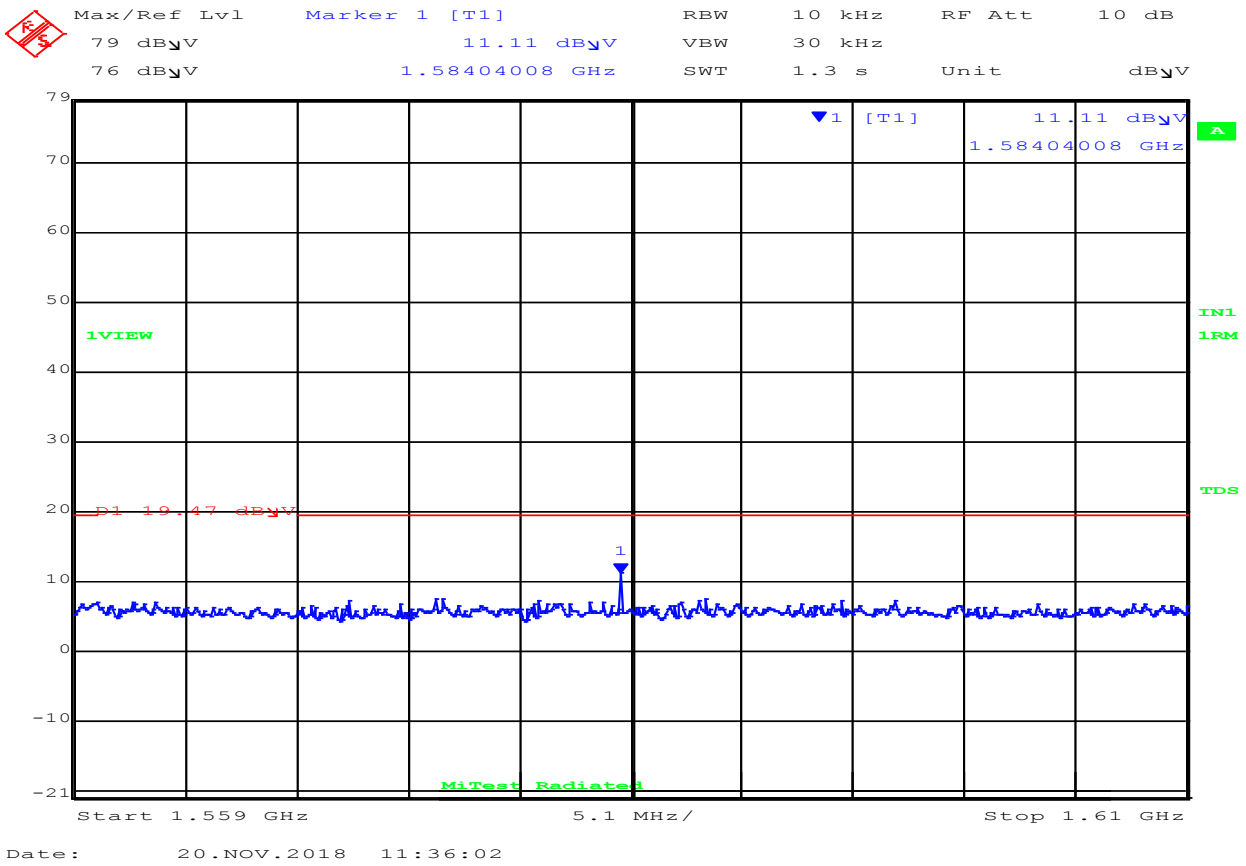
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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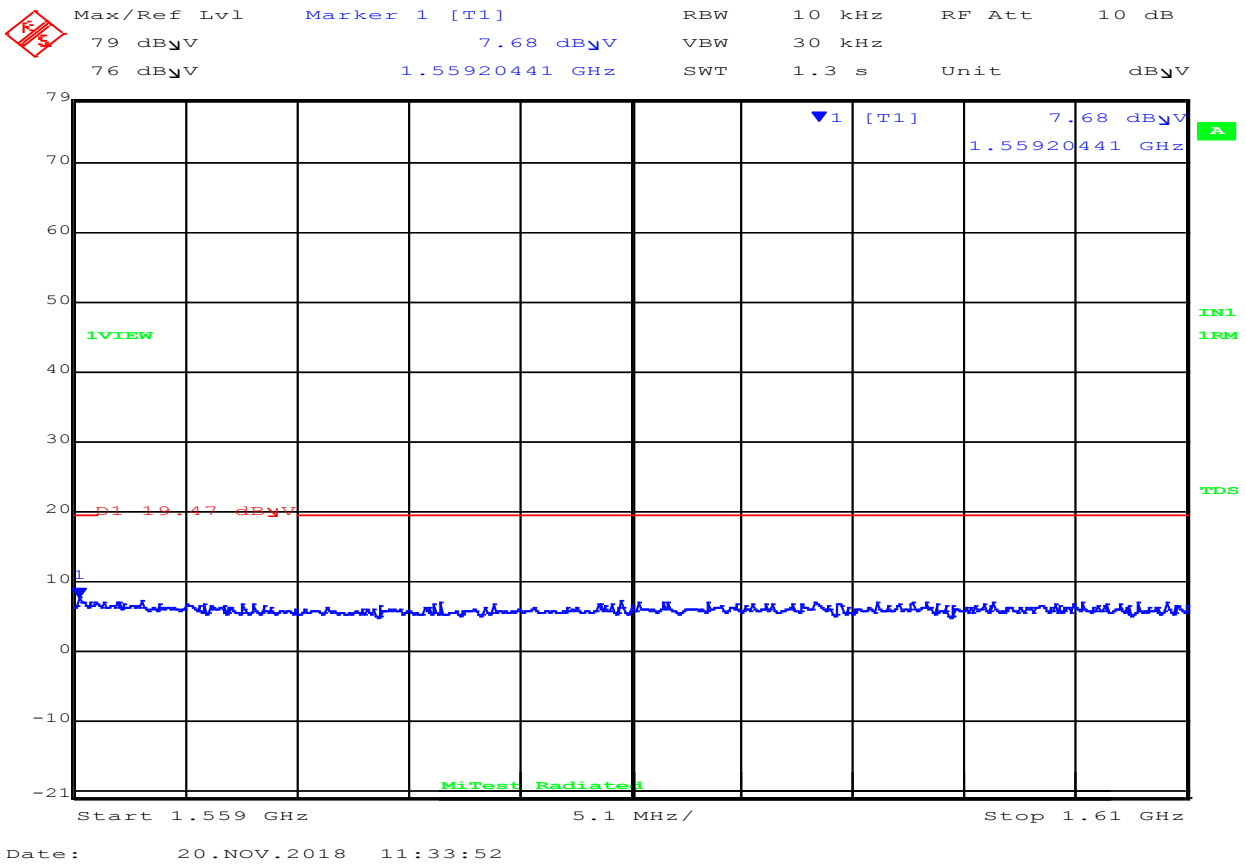
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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7128 MHz

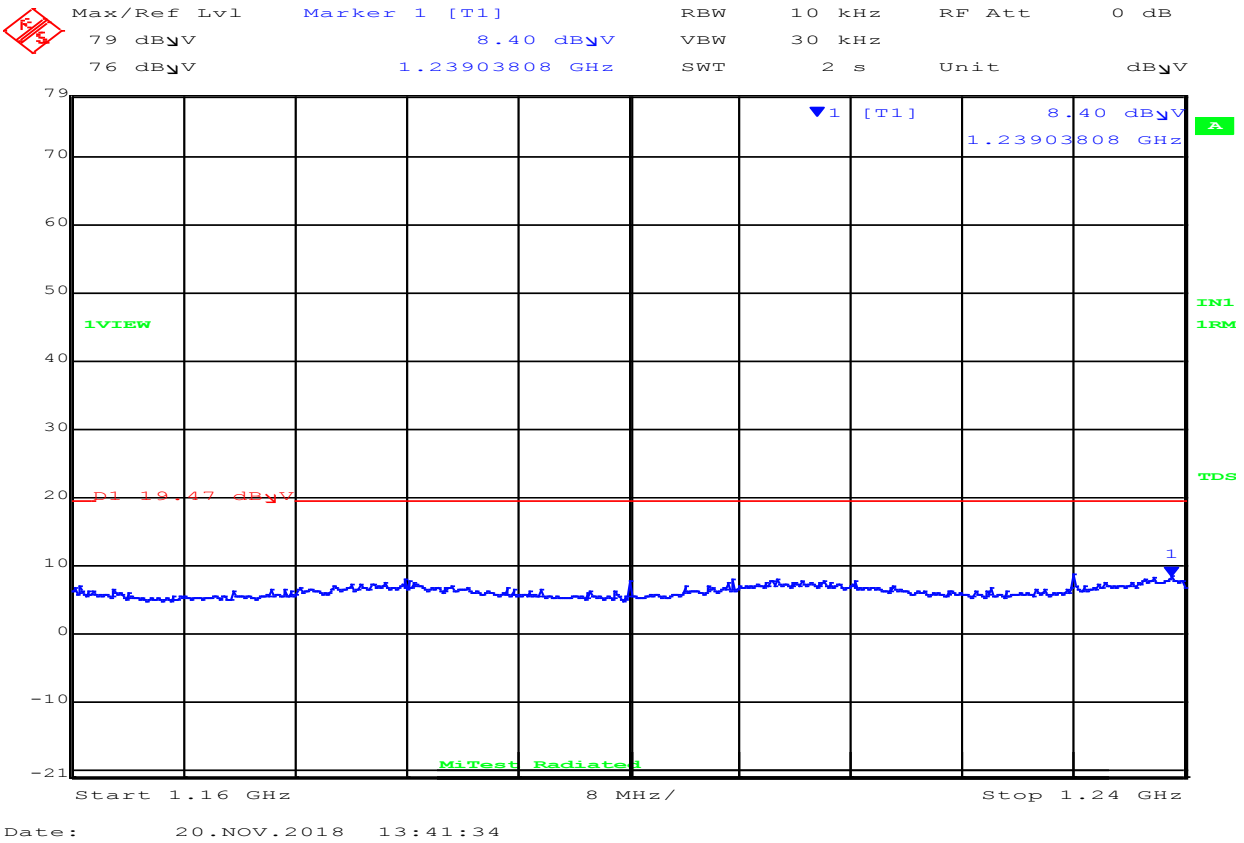
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

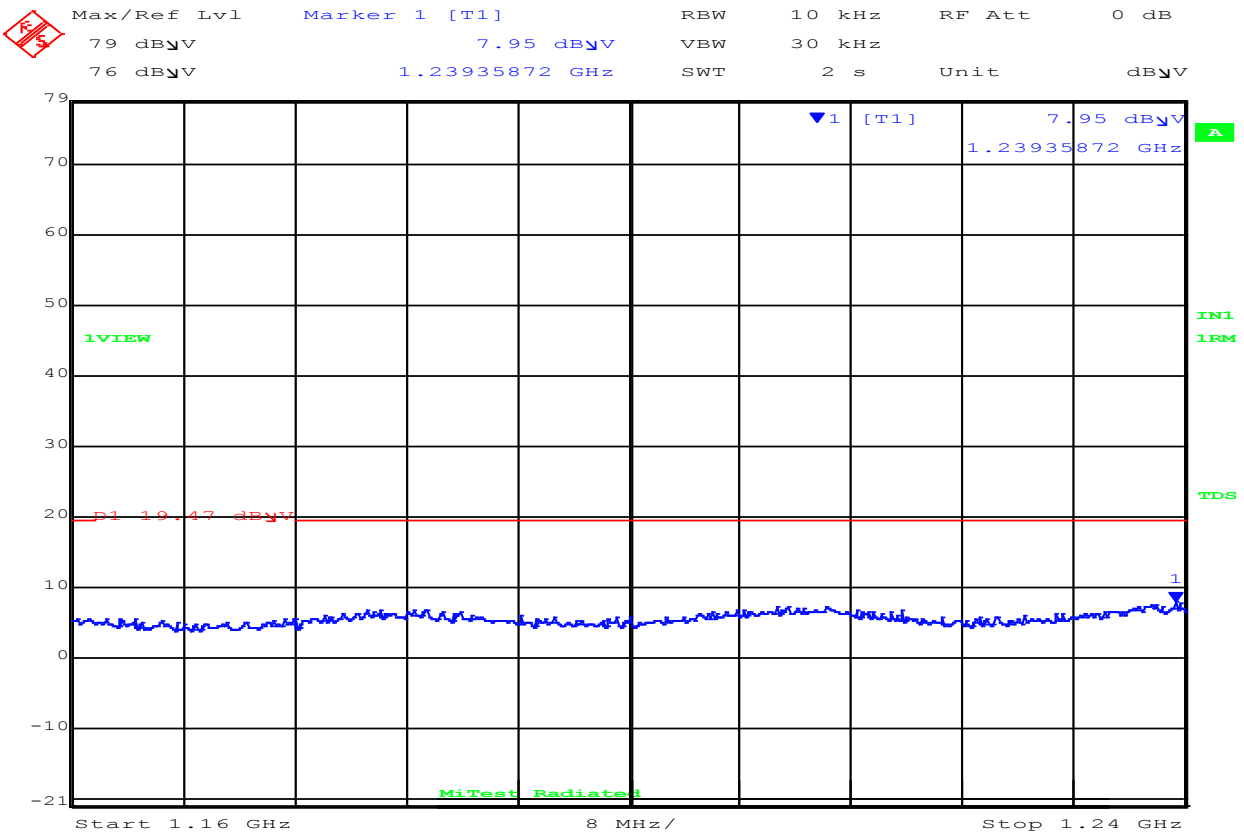
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 20.NOV.2018 13:39:48

1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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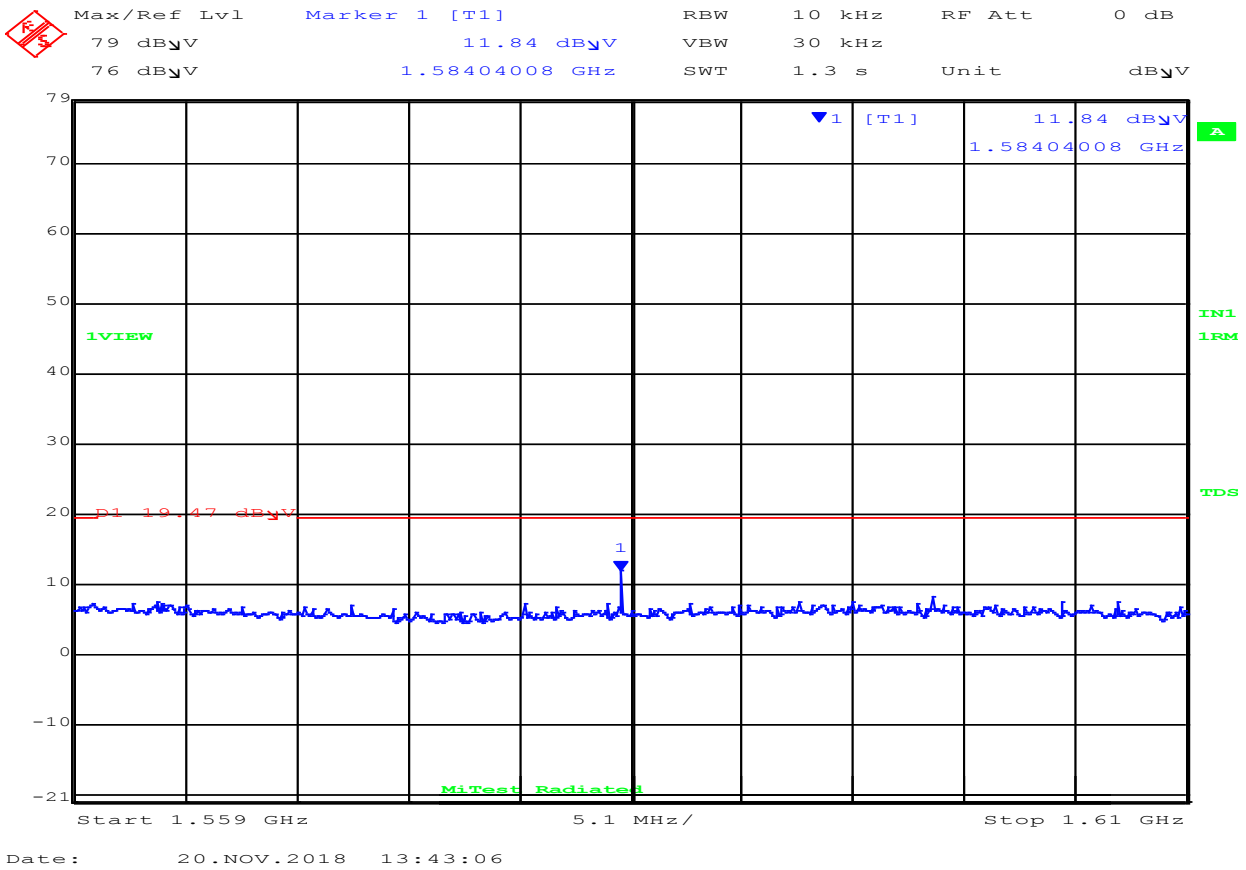
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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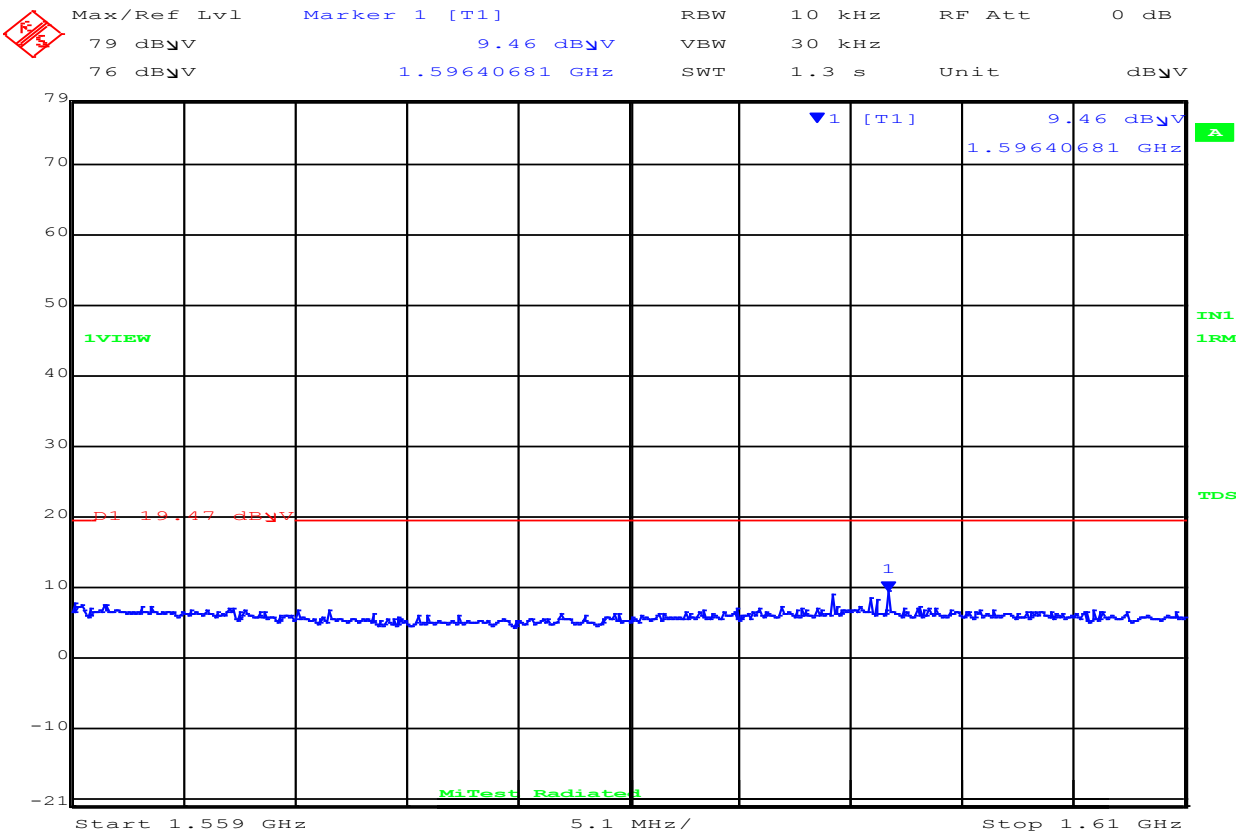
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

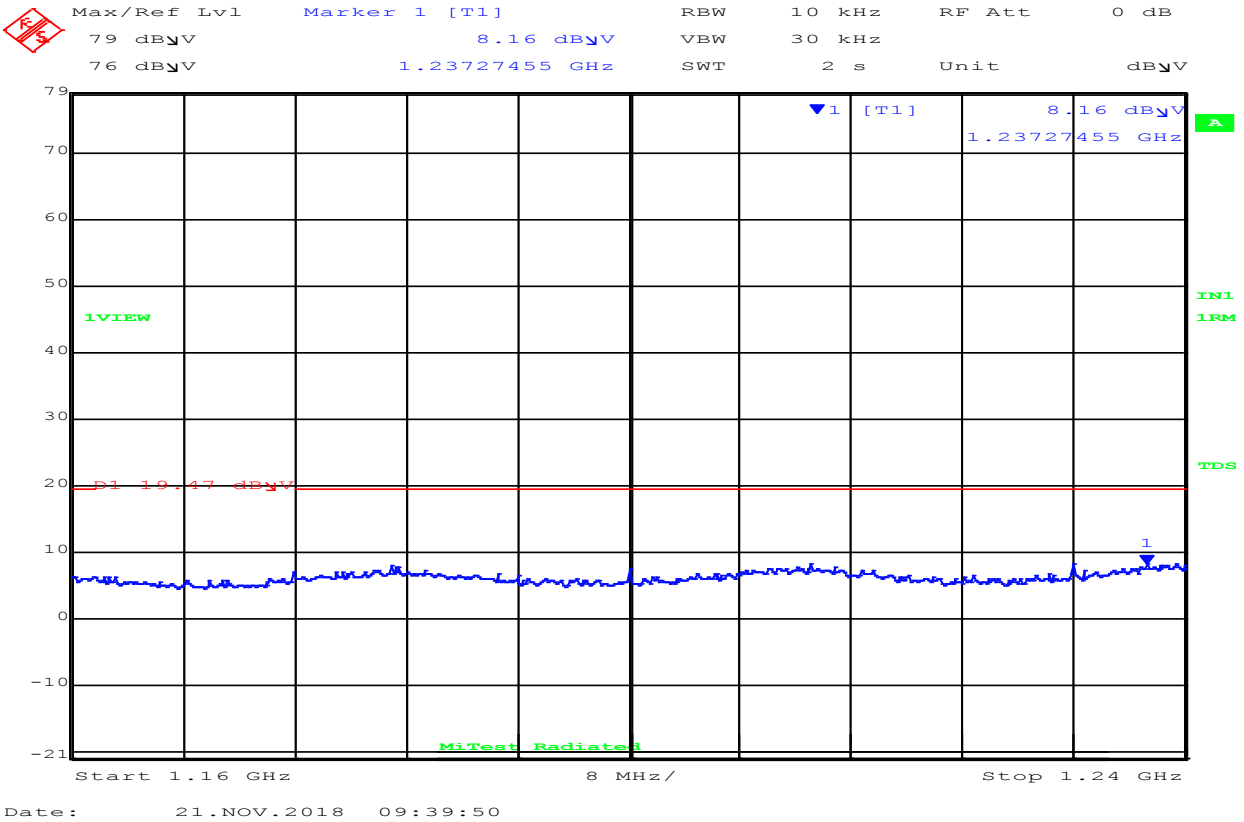
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

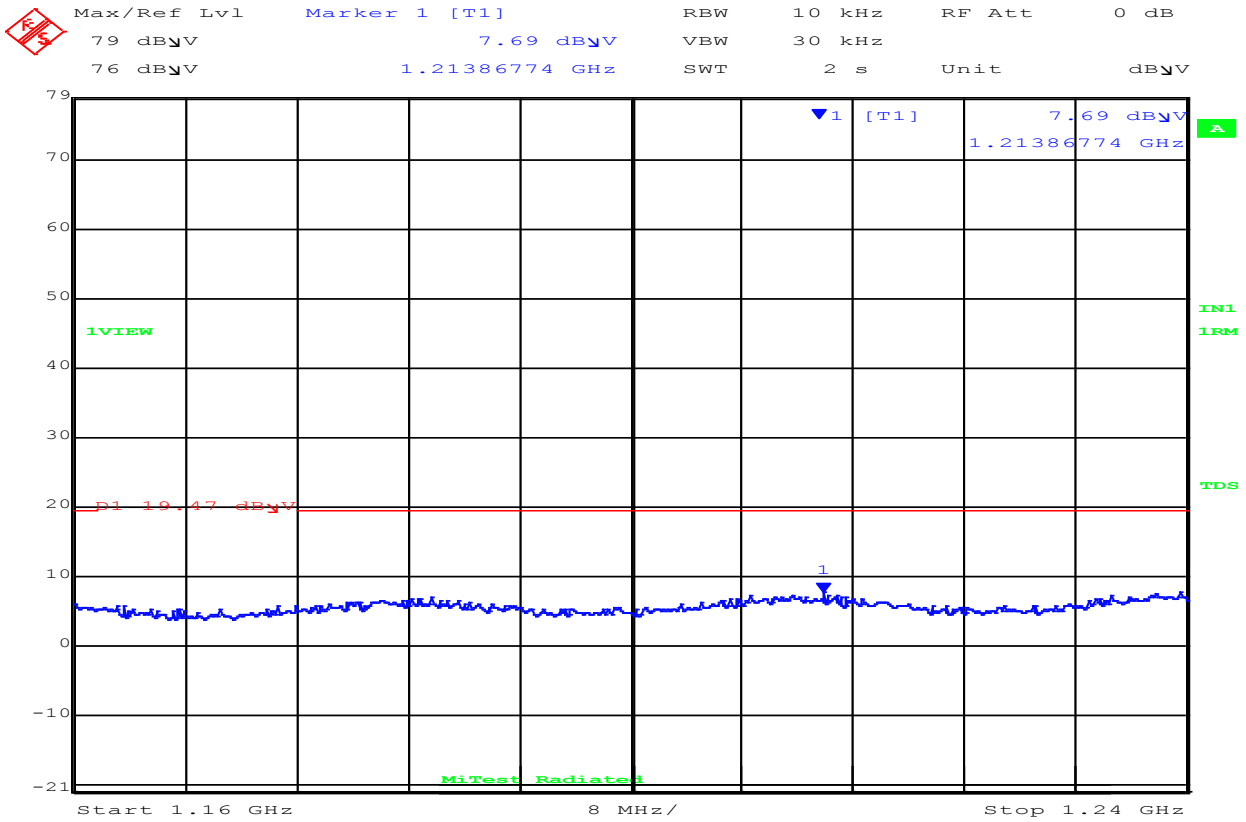
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

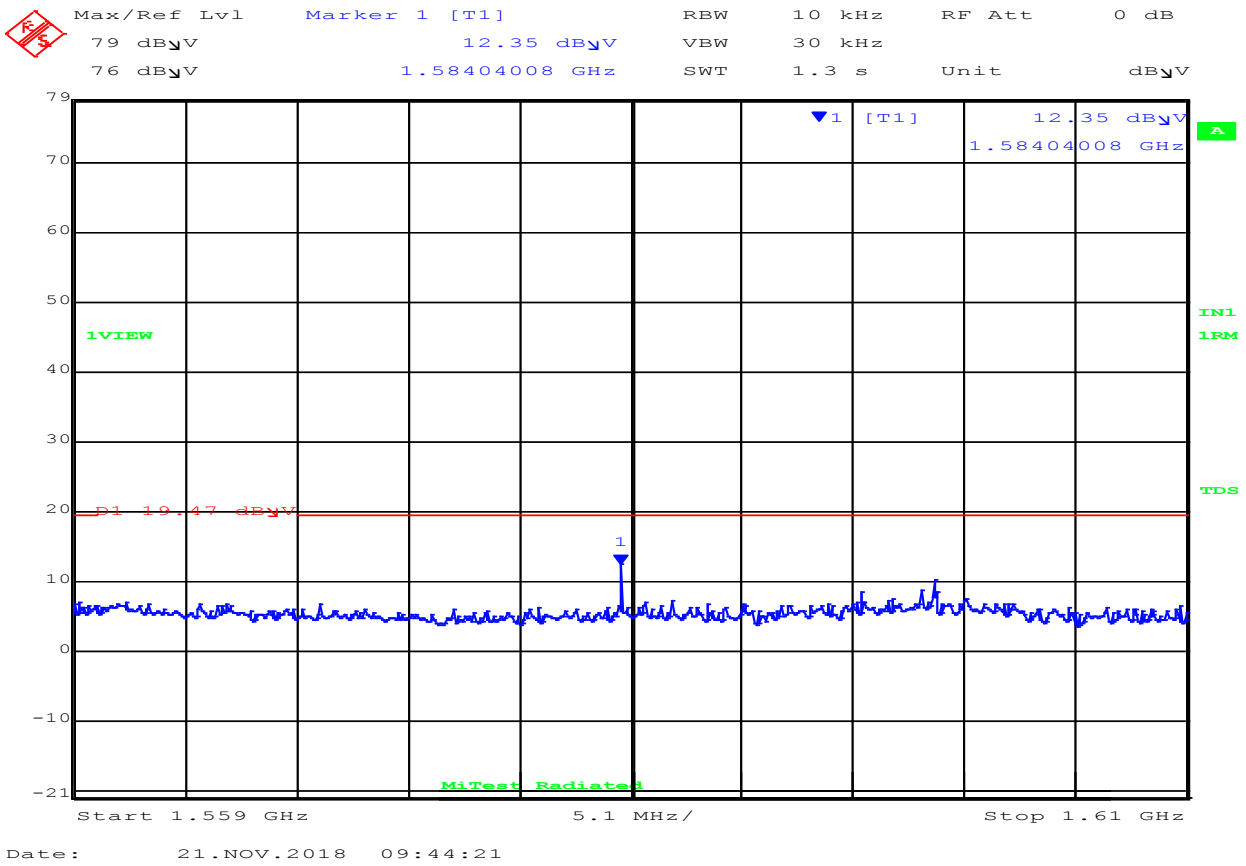
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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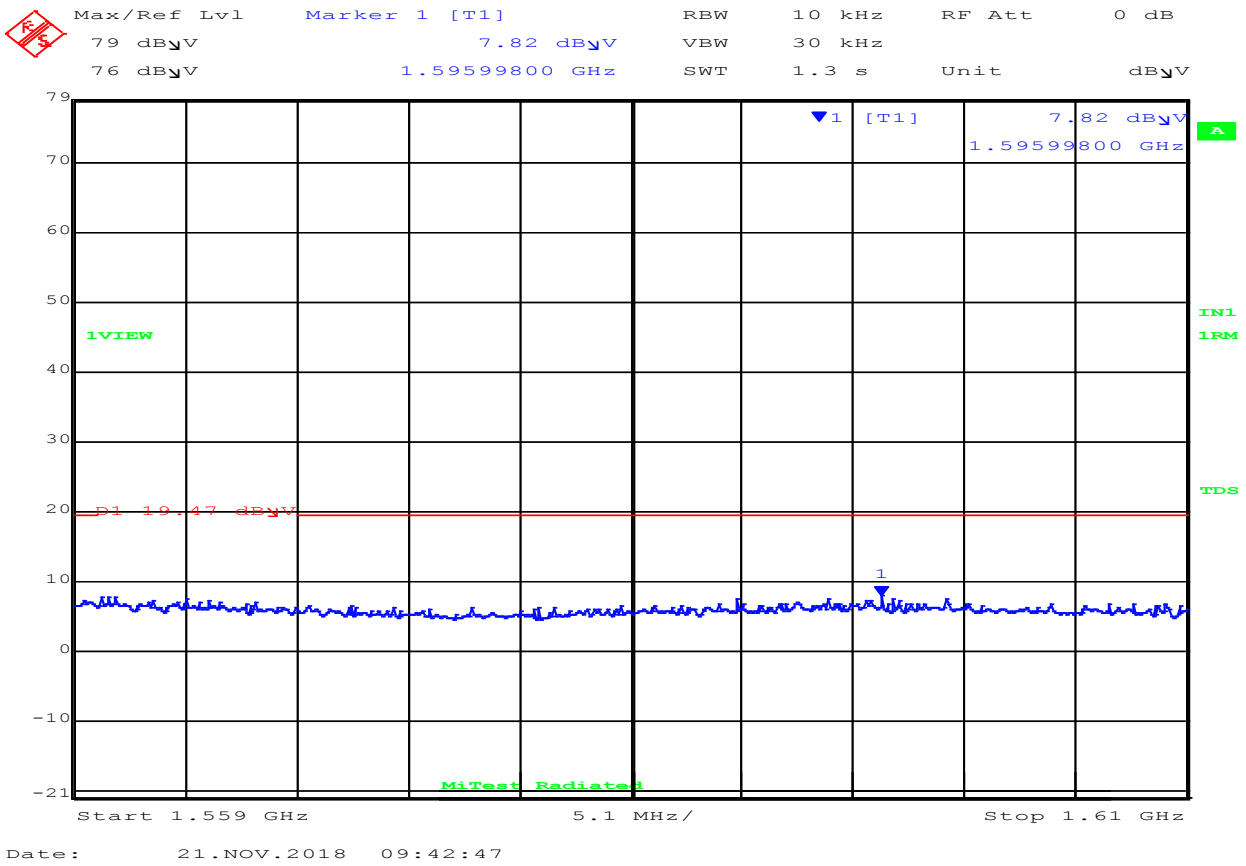
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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8184 MHz

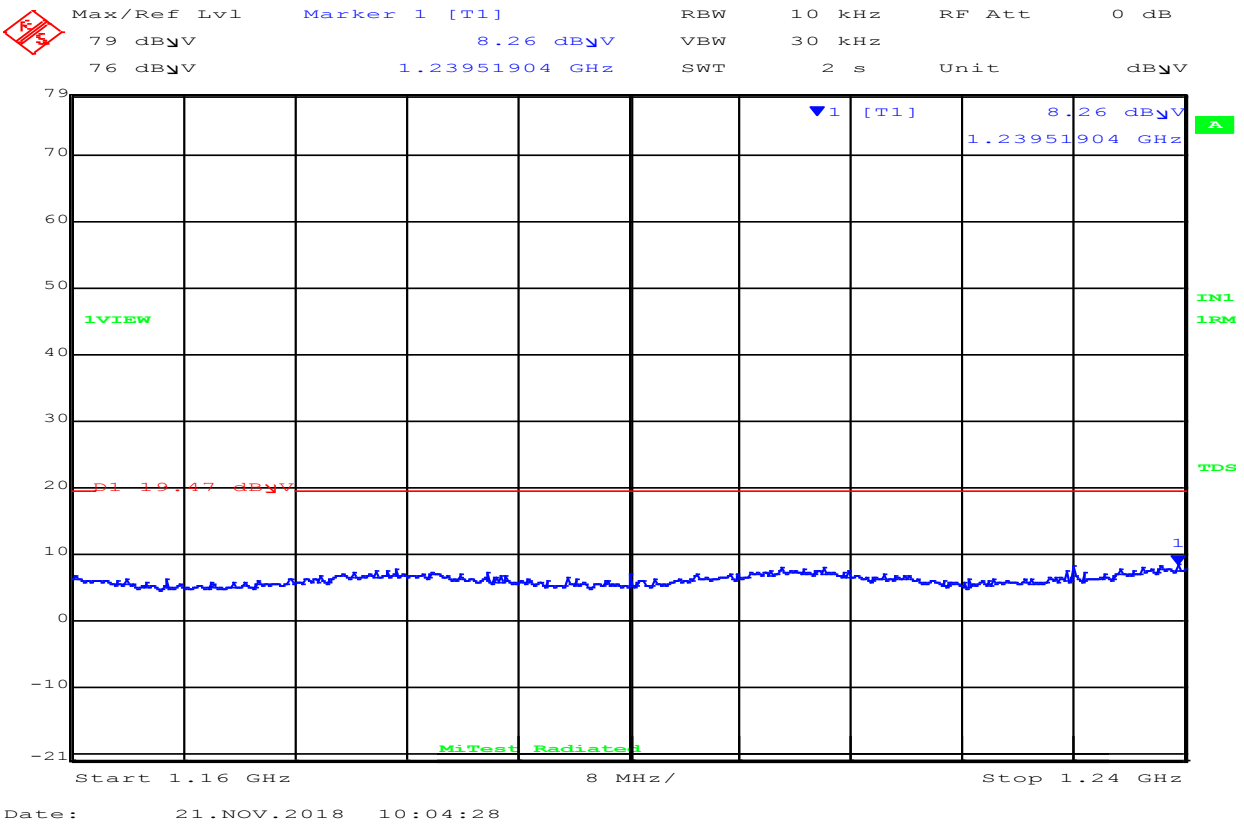
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

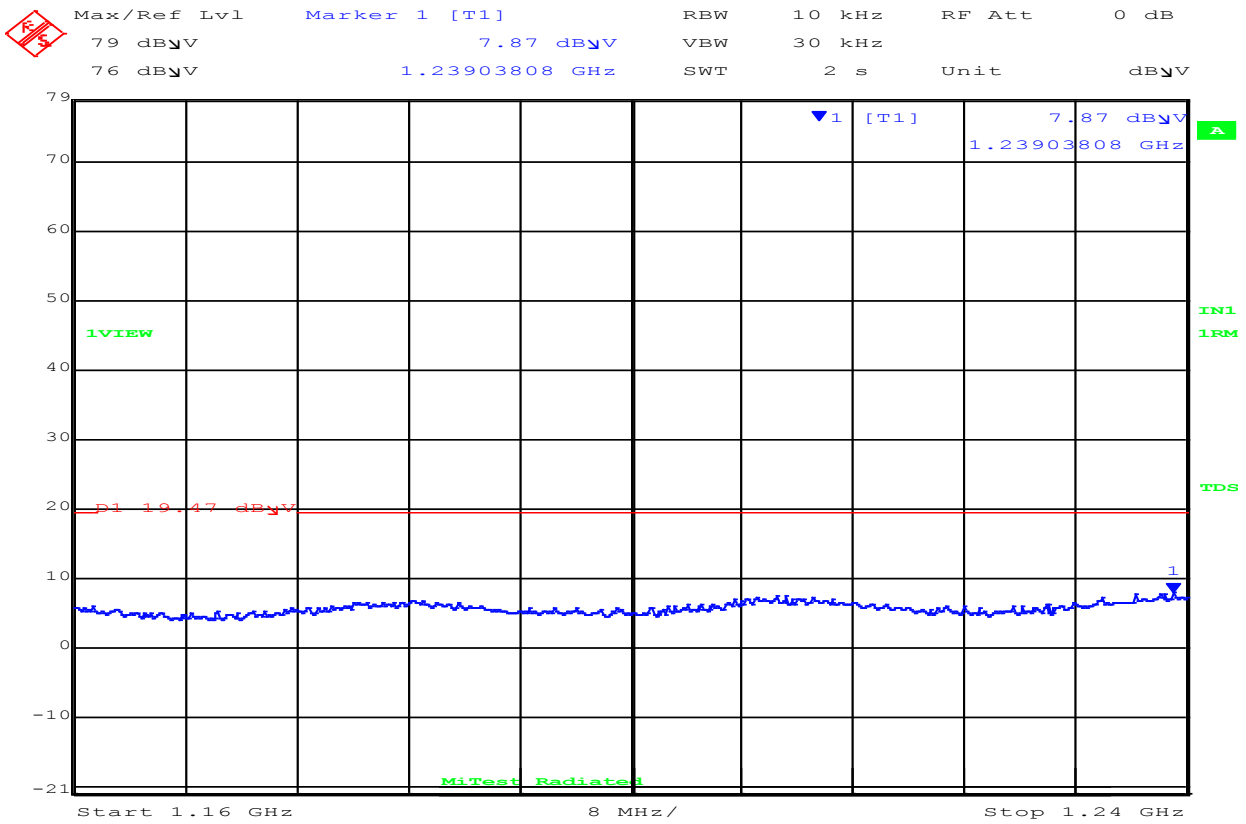
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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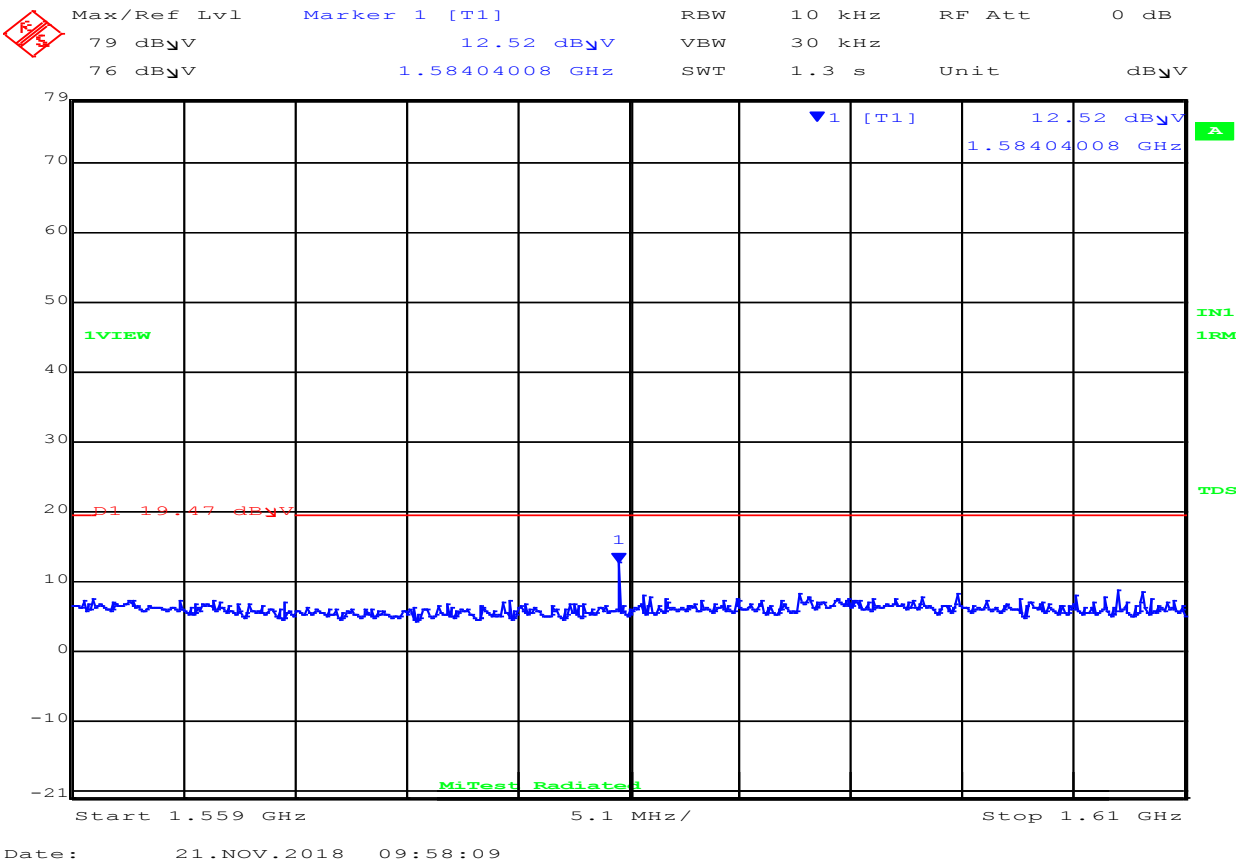
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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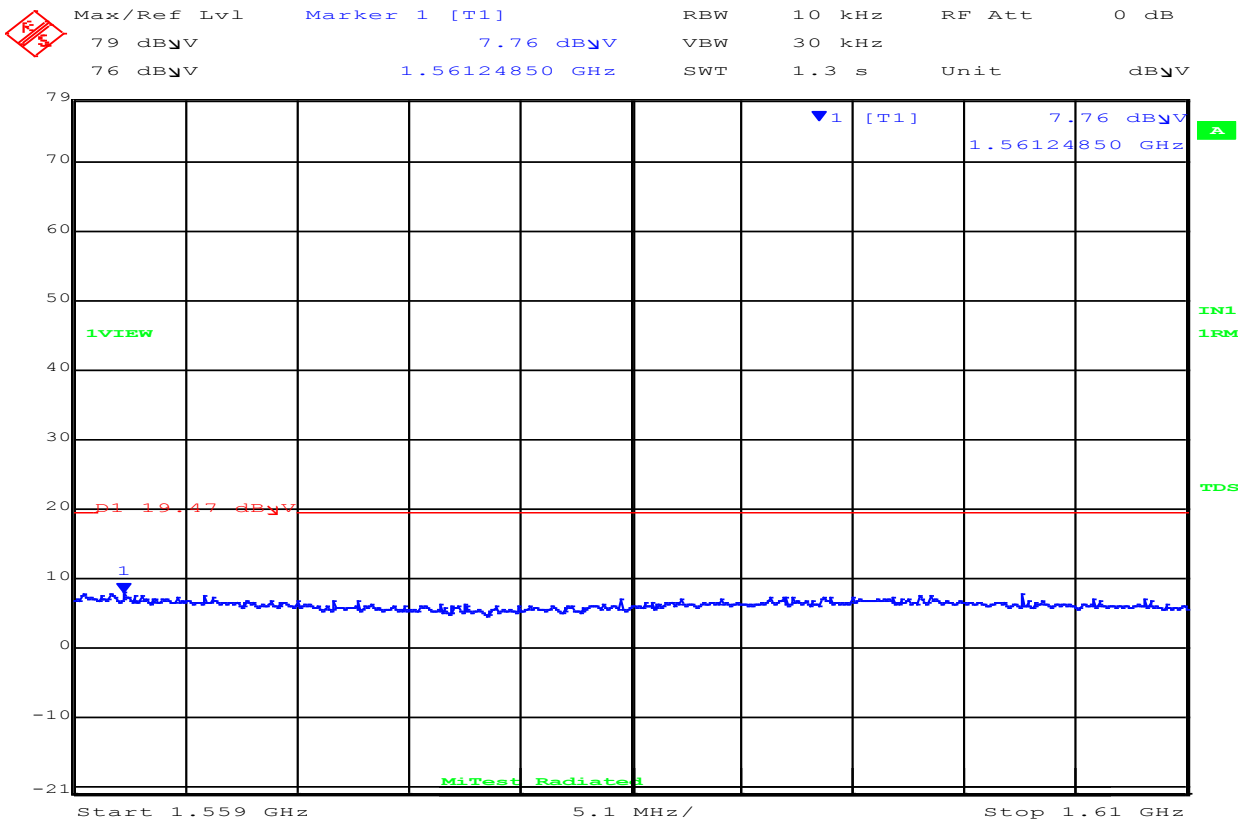
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

8712 MHz

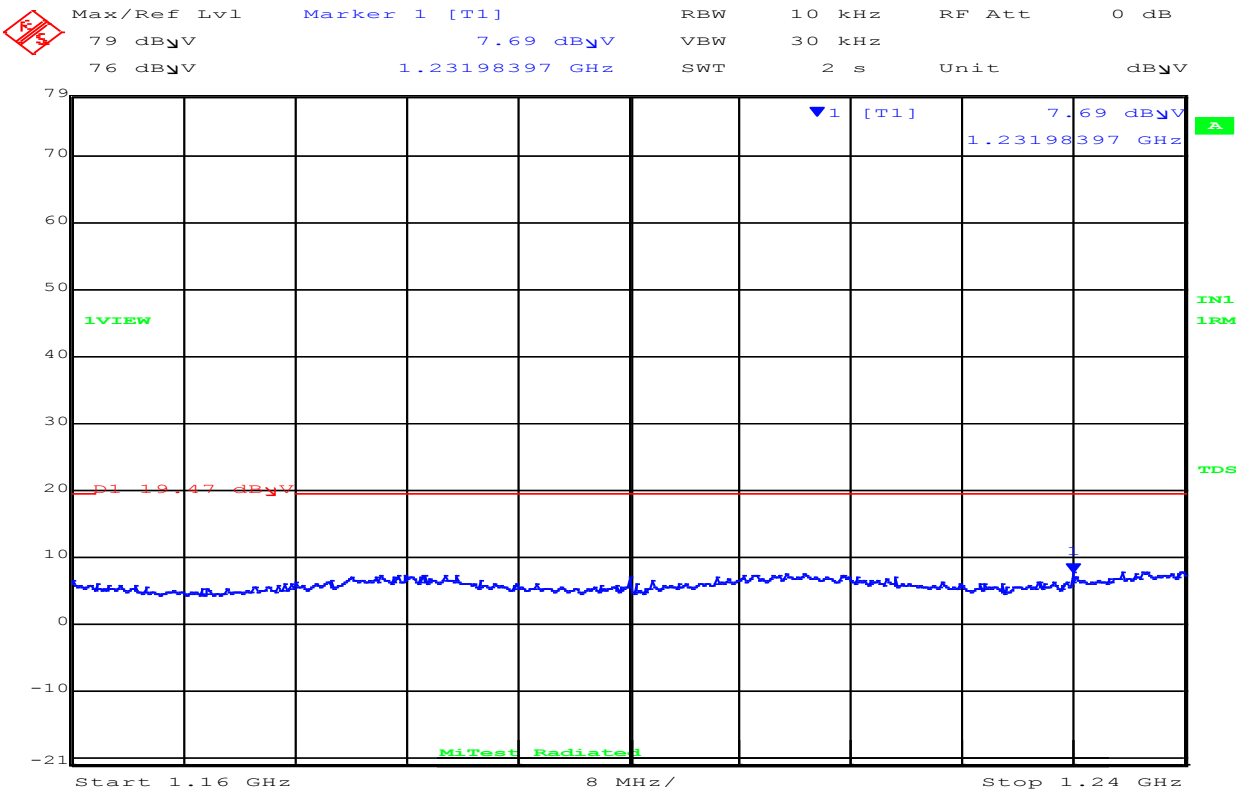
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

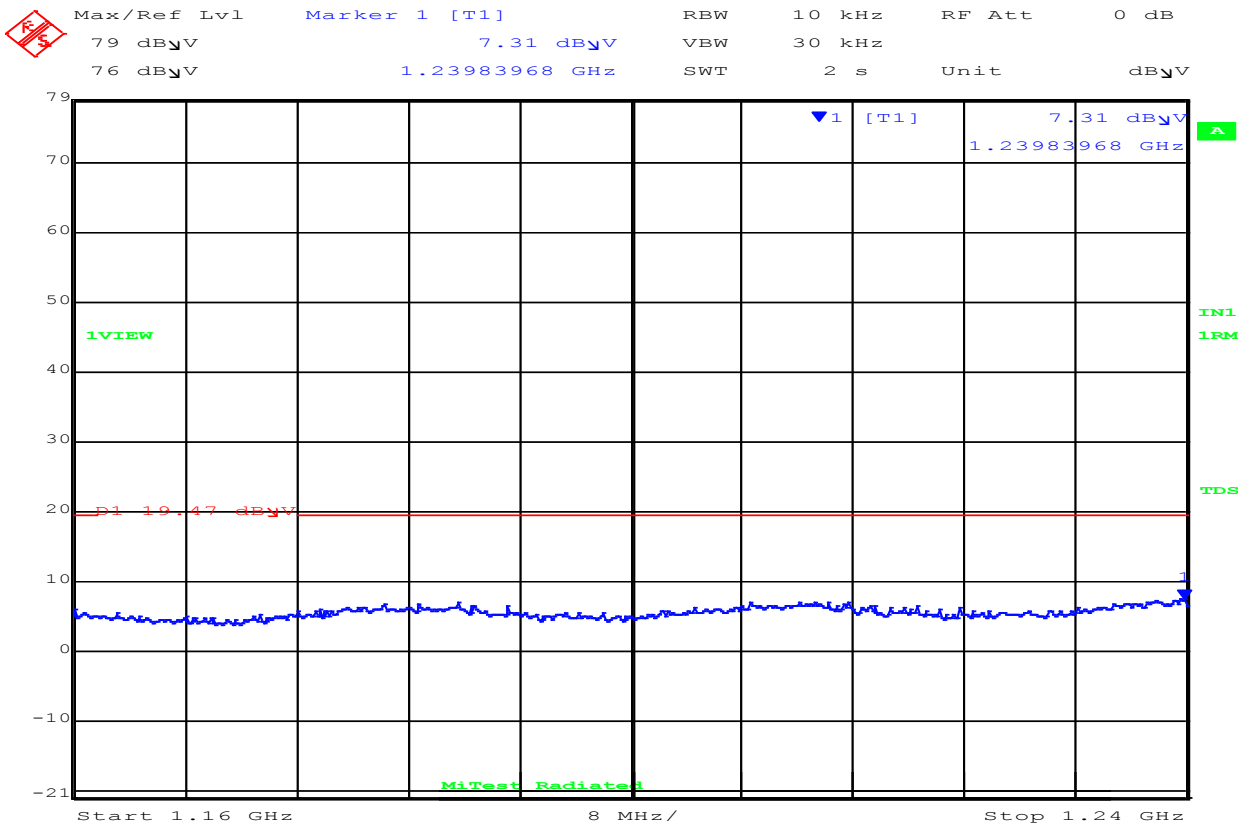
Equipment Configuration for Spurious Emissions 1.164-1.240 GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.164-1.240GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1164.00-1240.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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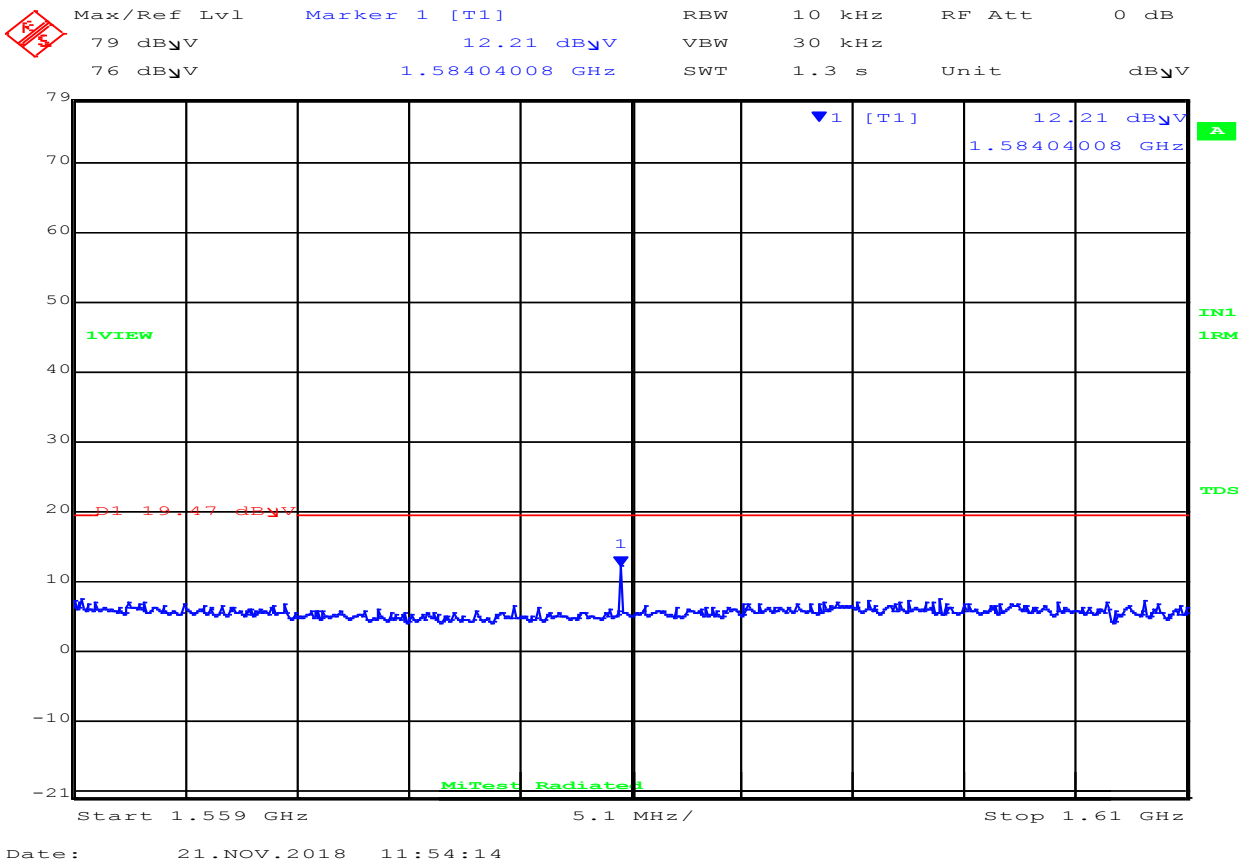
Equipment Configuration for Spurious Emissions1.559-1.610 GHz Horizontal

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Horizontal

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

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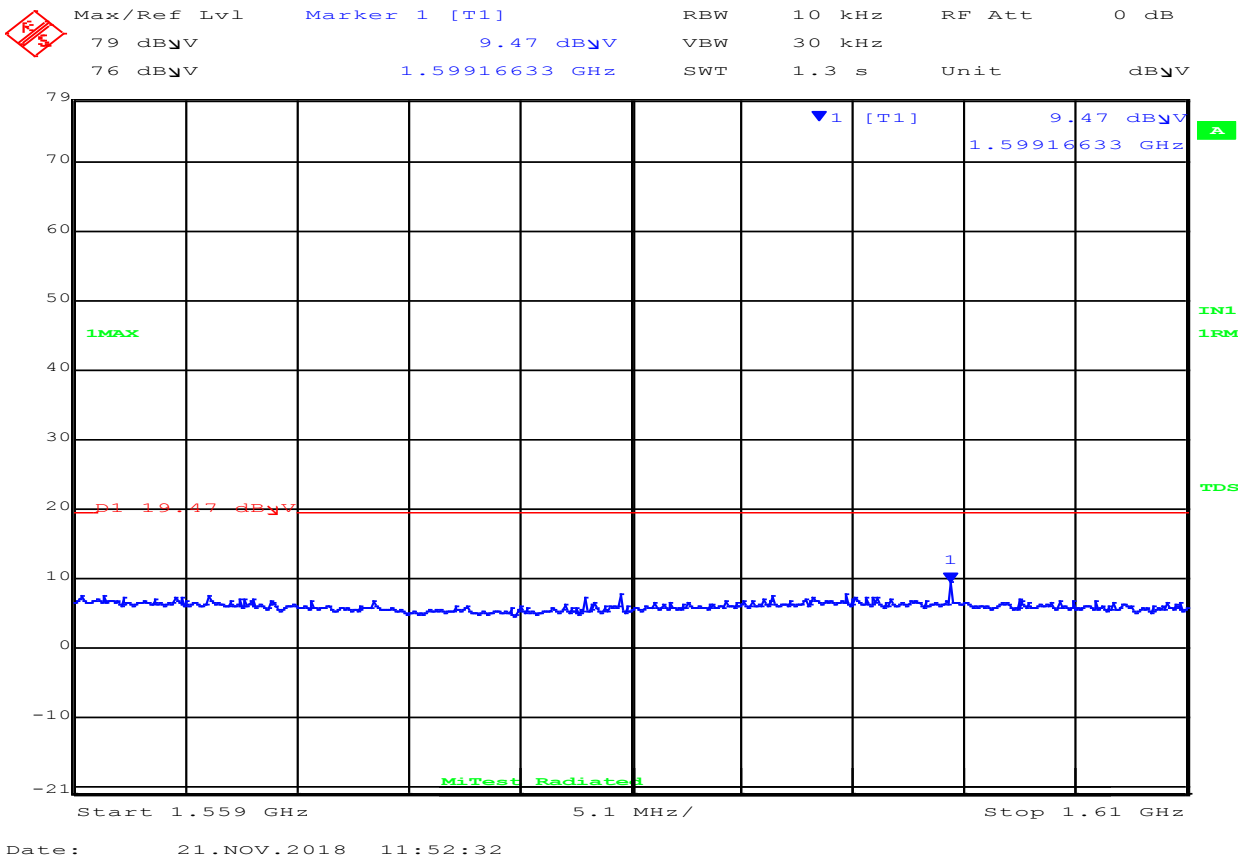
Equipment Configuration for Spurious Emissions1.559-1.610GHz Vertical

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

RADIATED SPURIOUS EMISSIONS GPS 1.559-1.610GHz Vertical

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



1559.00-1610.00 MHz									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:
Laptop connected via 10ft USB cable with Ferrites (TDK ZCAT-330-1236 and Fair-Rite Type 61 with one turn at each end)

9.4.3. 50 MHz Bandwidth Peak Emissions

9.4.3.1. Commander AL5930

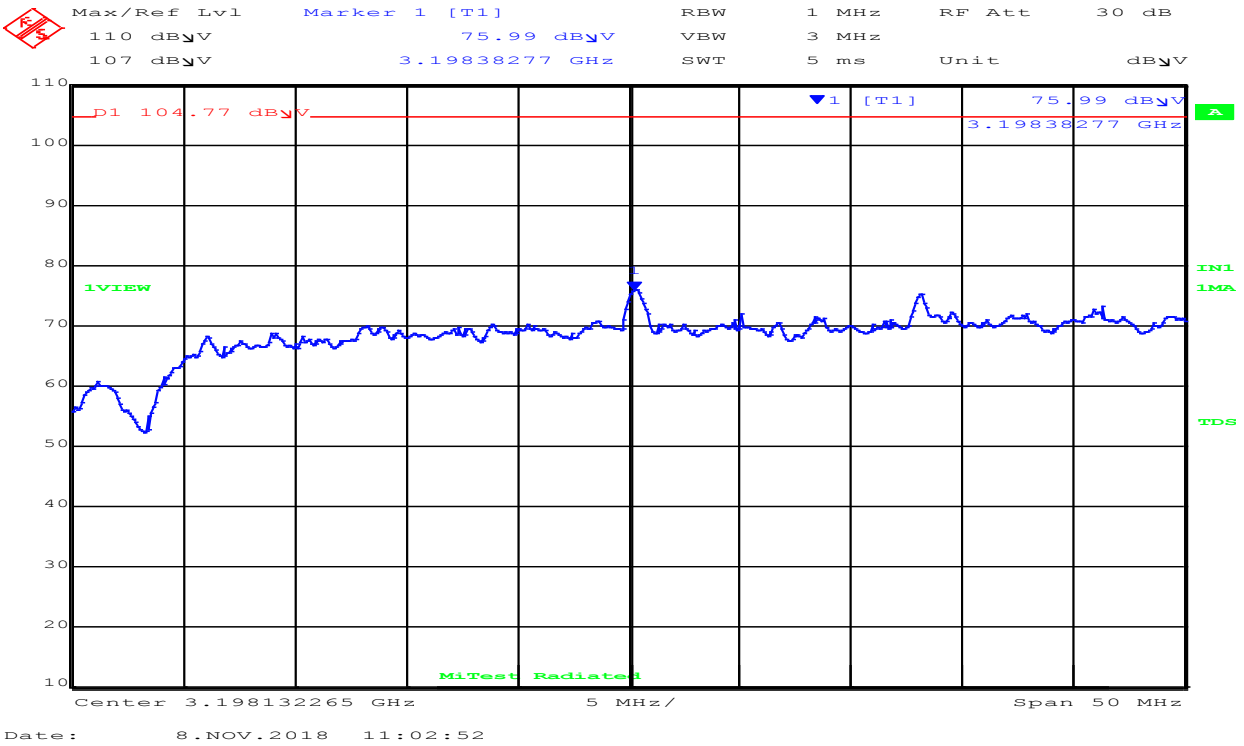
3432 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

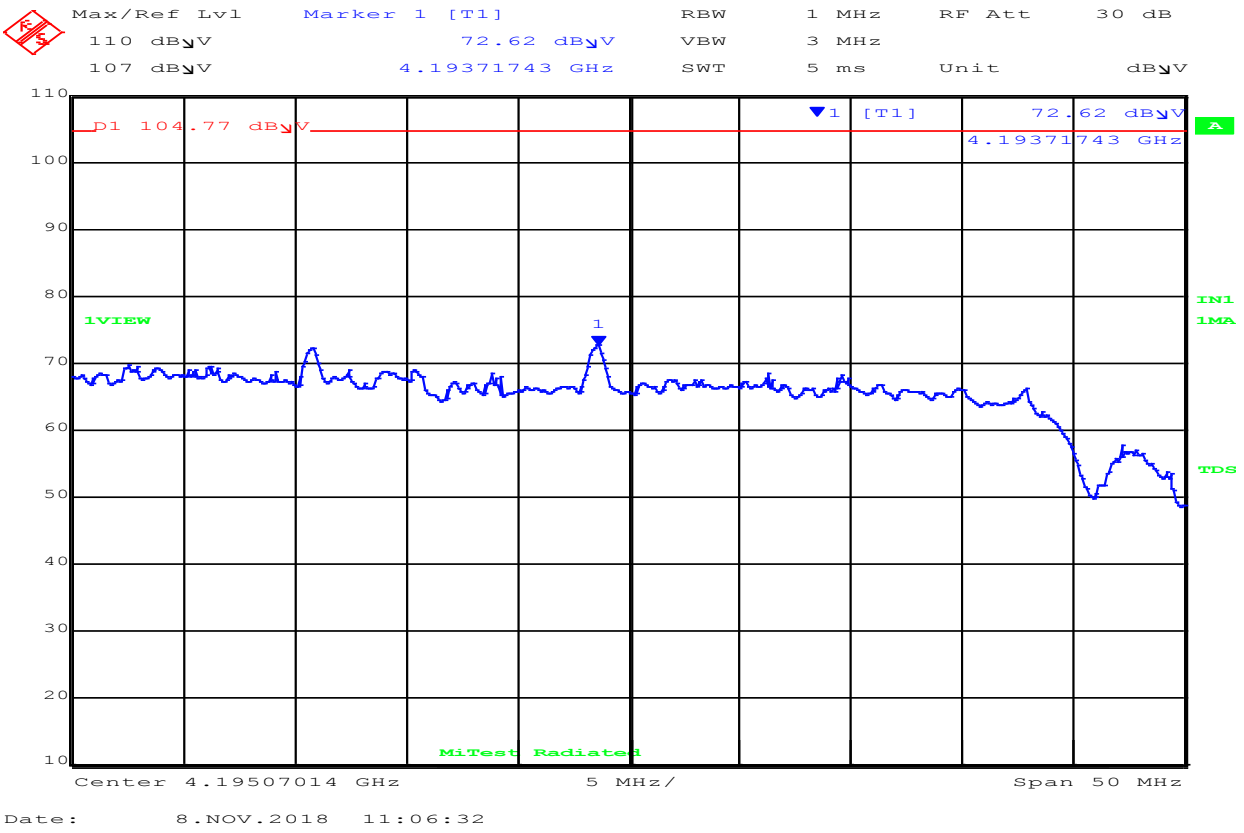
3960 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

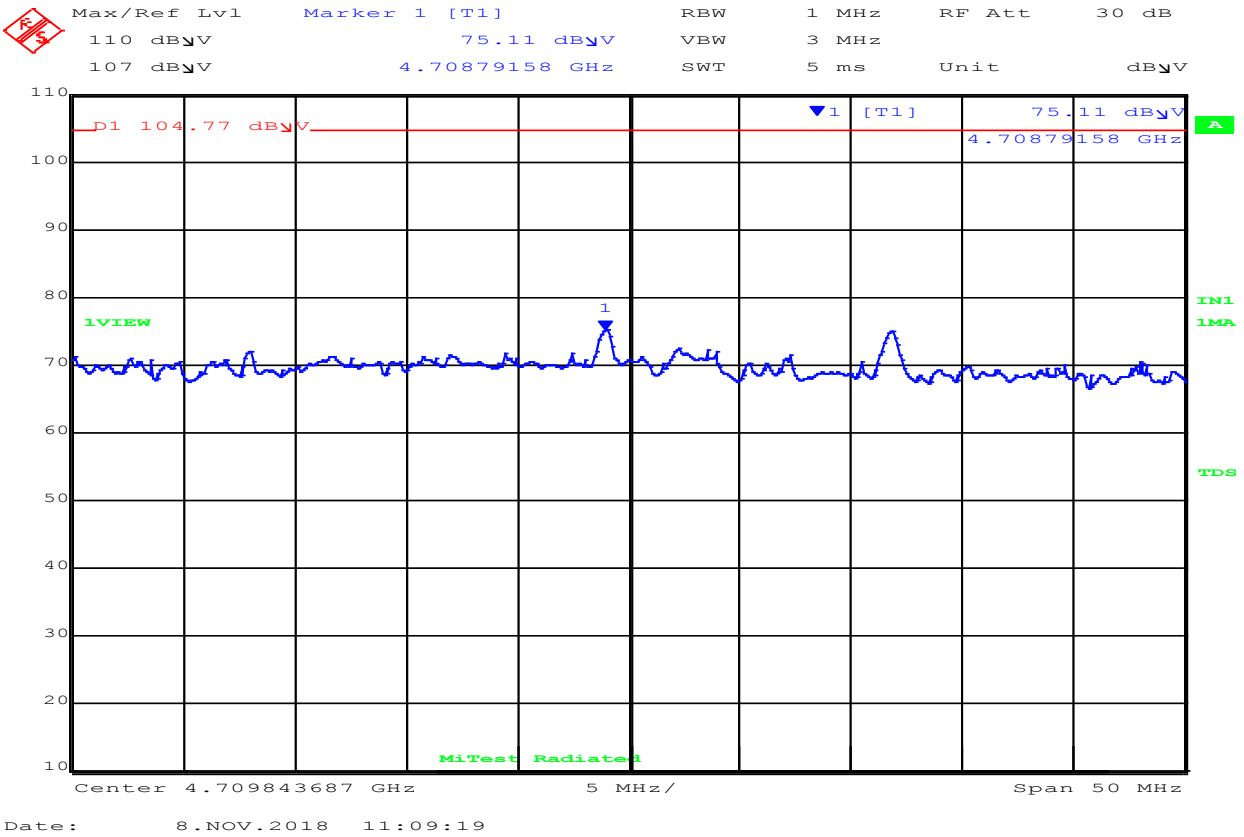
4488 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

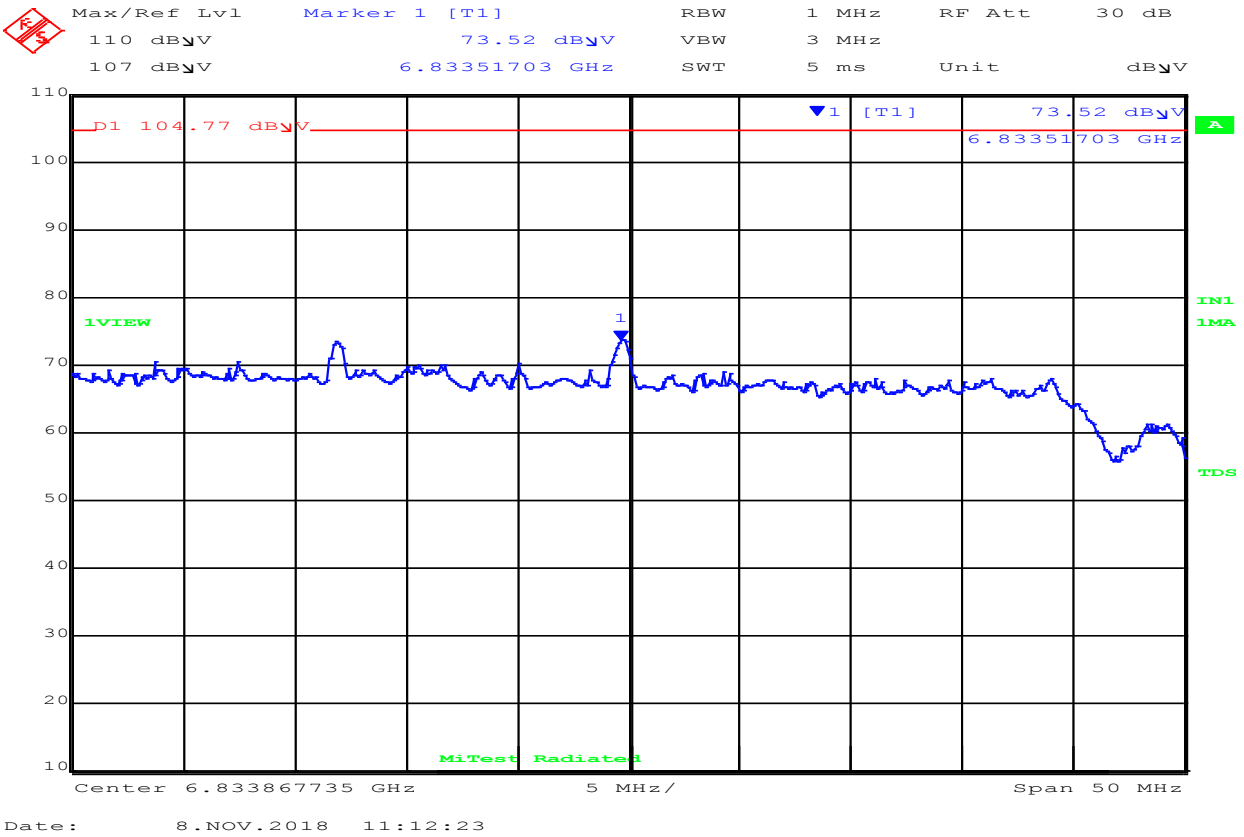
6600 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



Date: 8.NOV.2018 11:12:23

50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

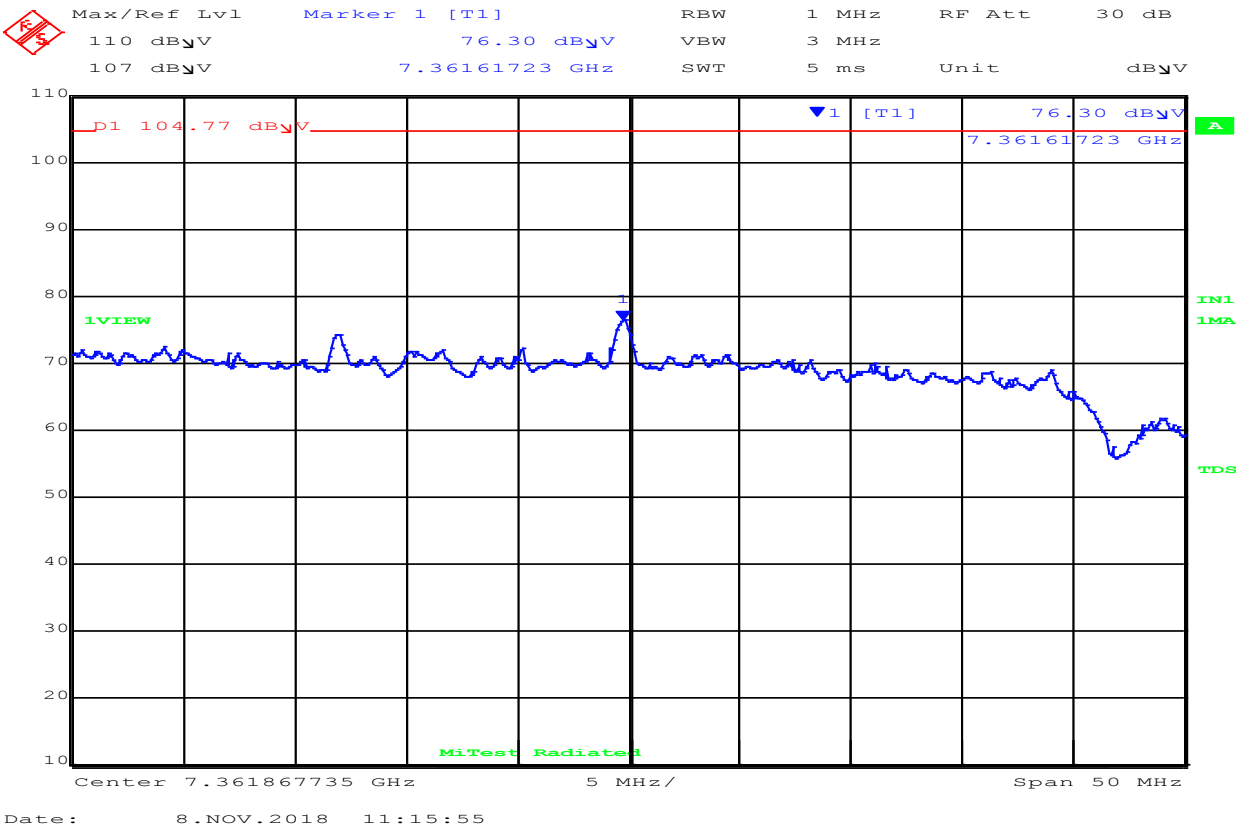
7128 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

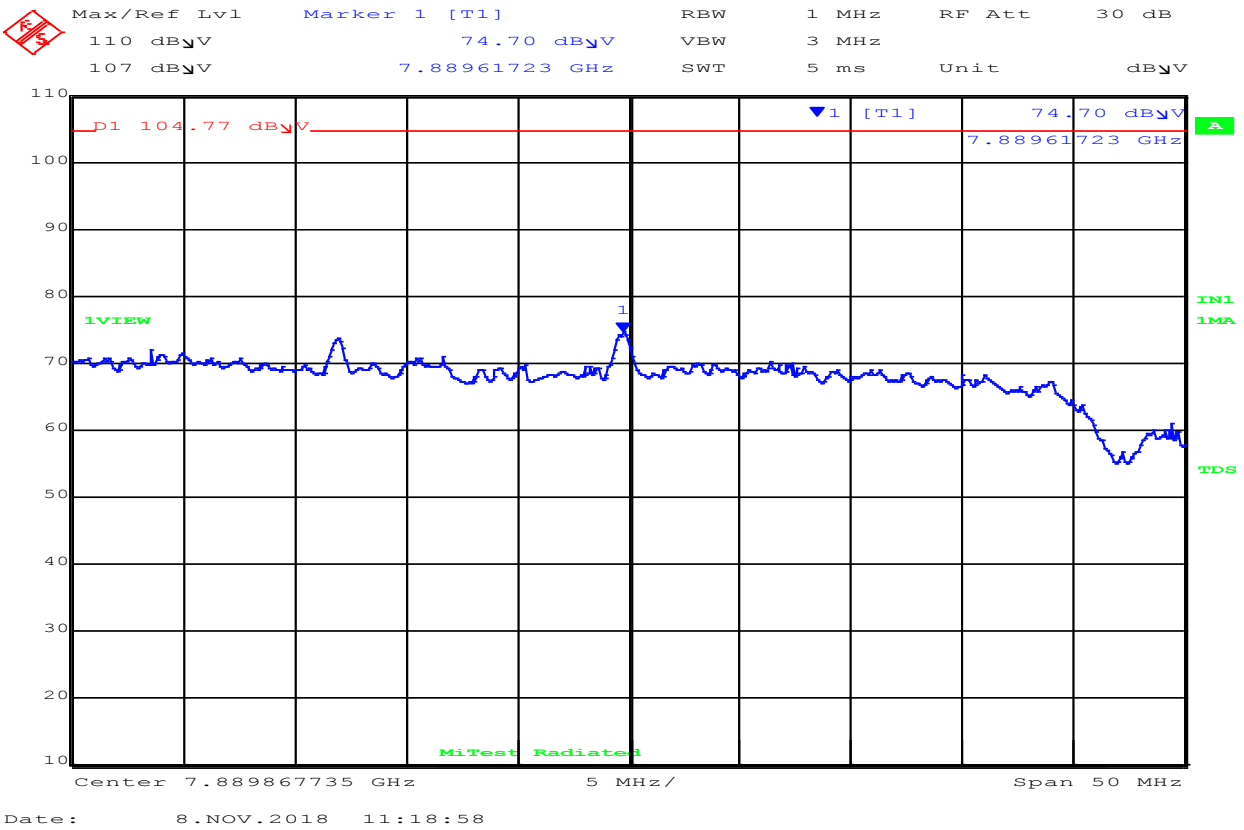
Equipment Configuration for 50 MHz Peak Emissions

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



50 MHz Peak Emissions

Num	Frequency MHz	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
No Signals Found within 6 dB of Limit									

Test Notes:

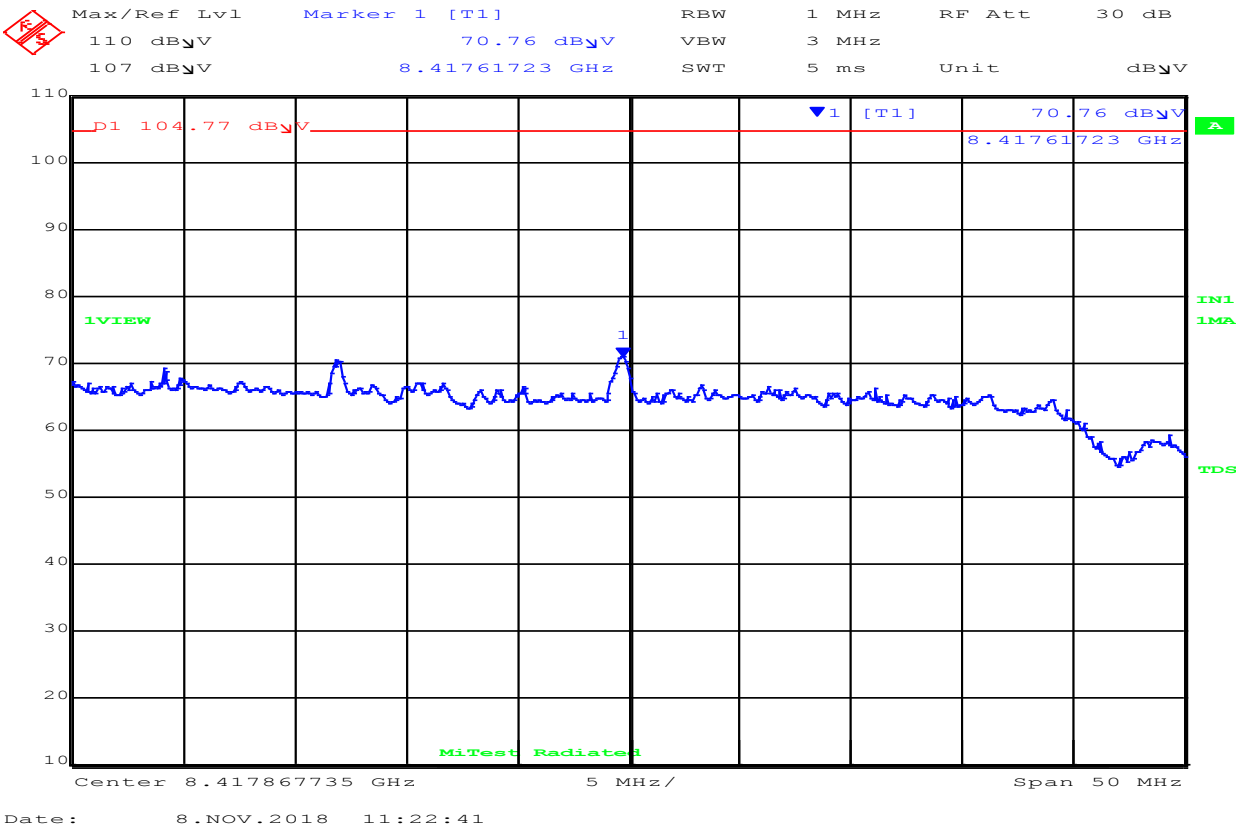
8184 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

8712 MHz

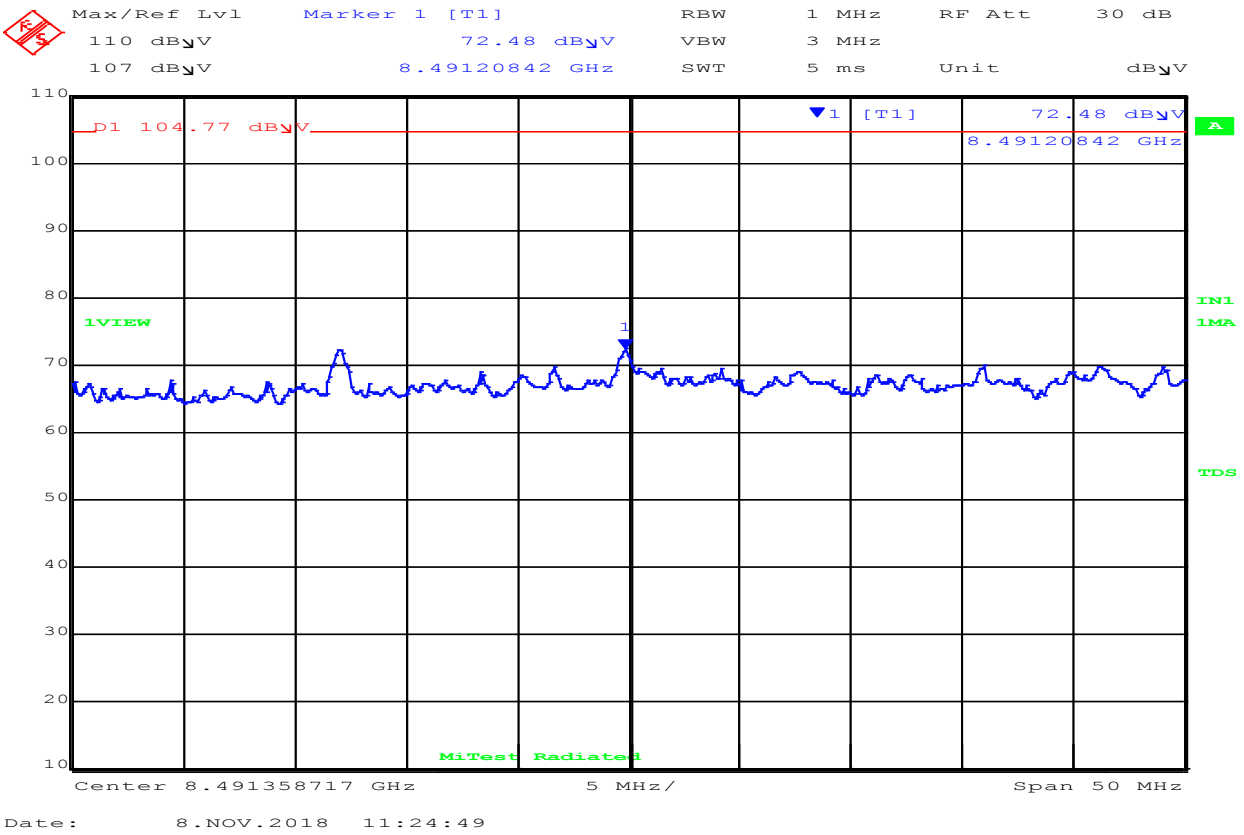
Equipment Configuration for 50 MHz Peak Emissions

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

9.4.3.2. Camouflage AL5955

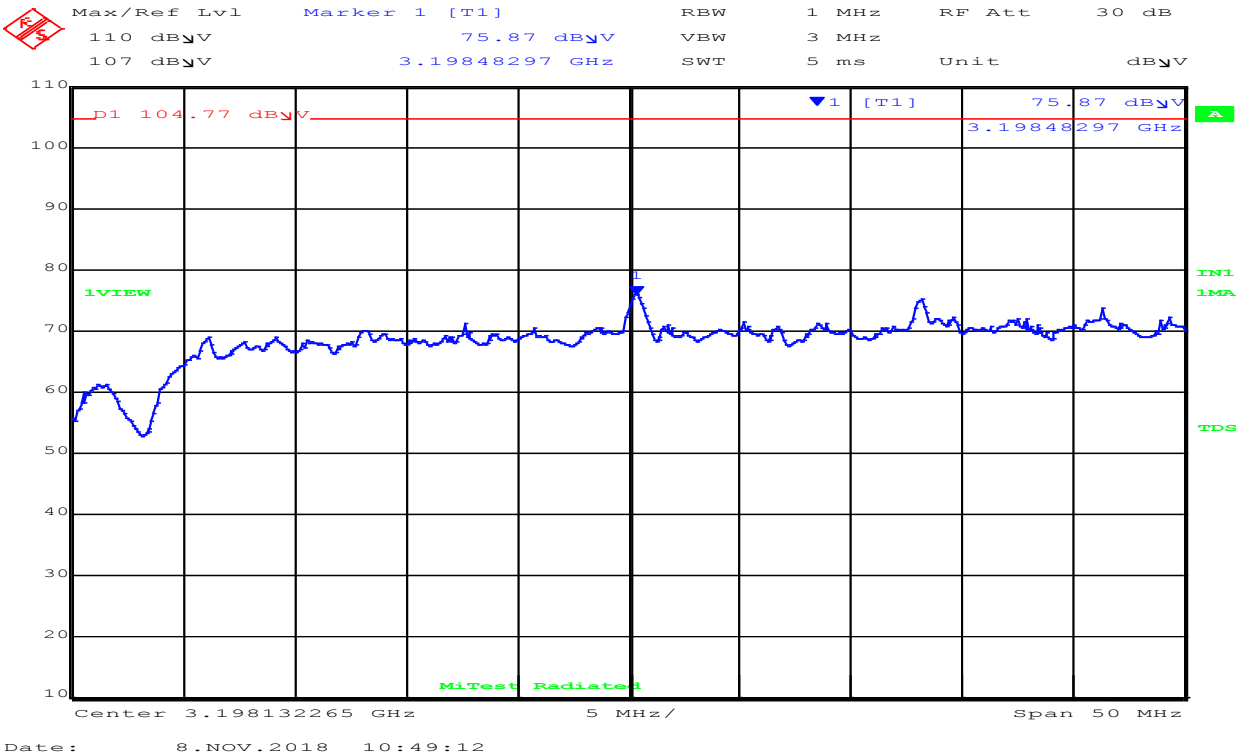
3432 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

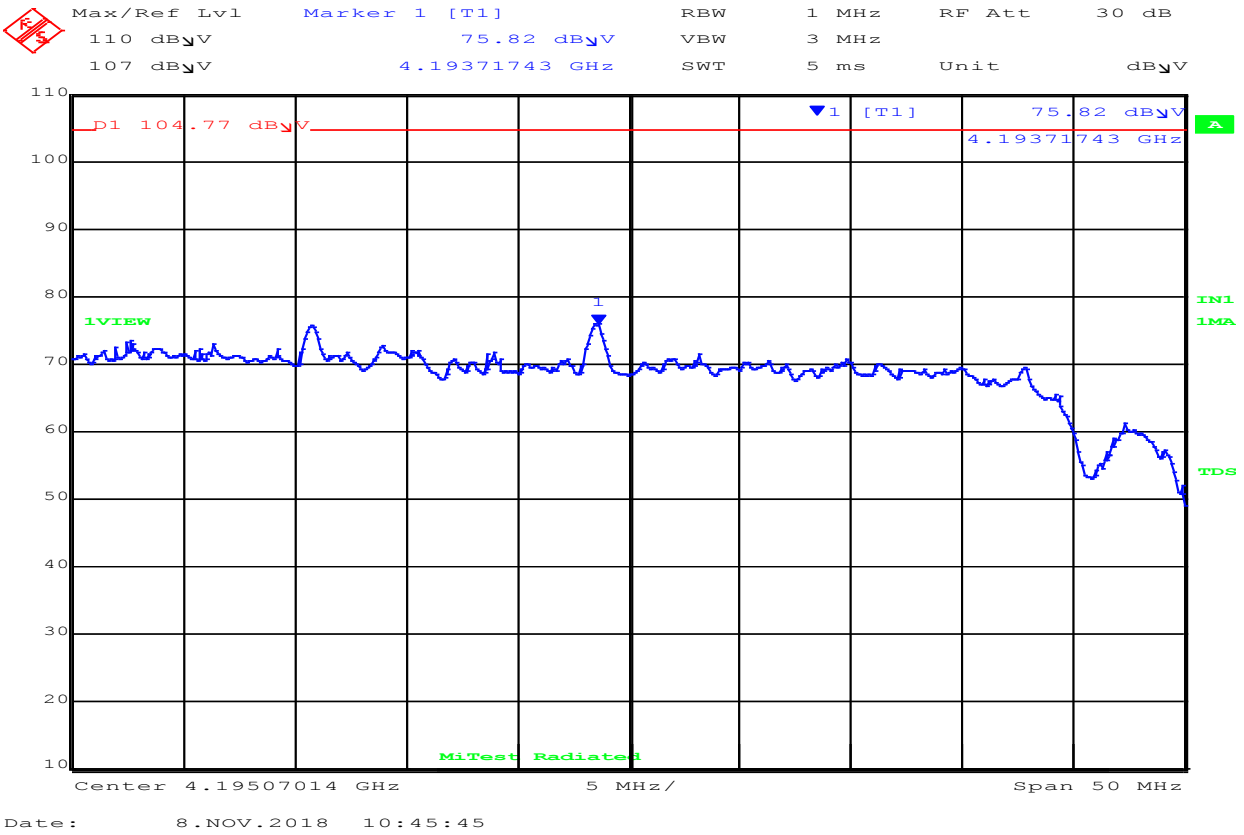
3960 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

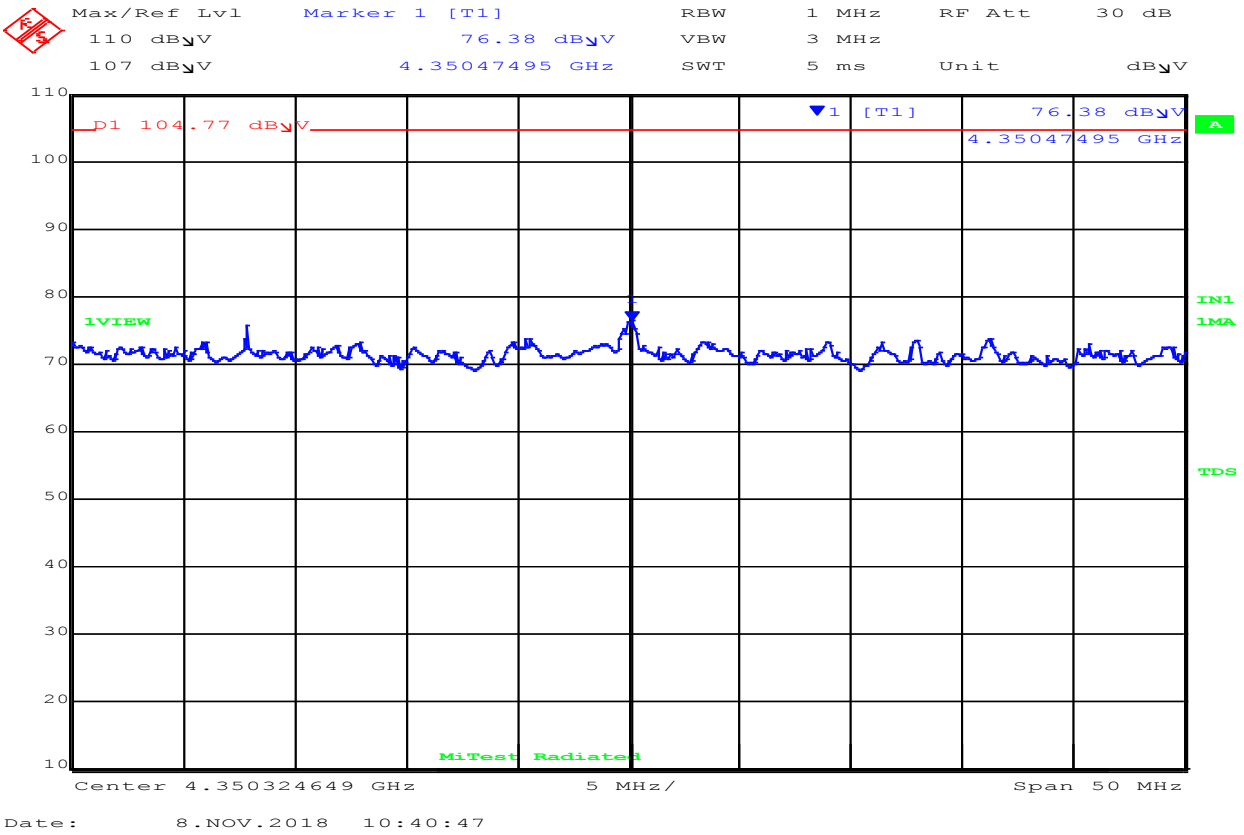
4488 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

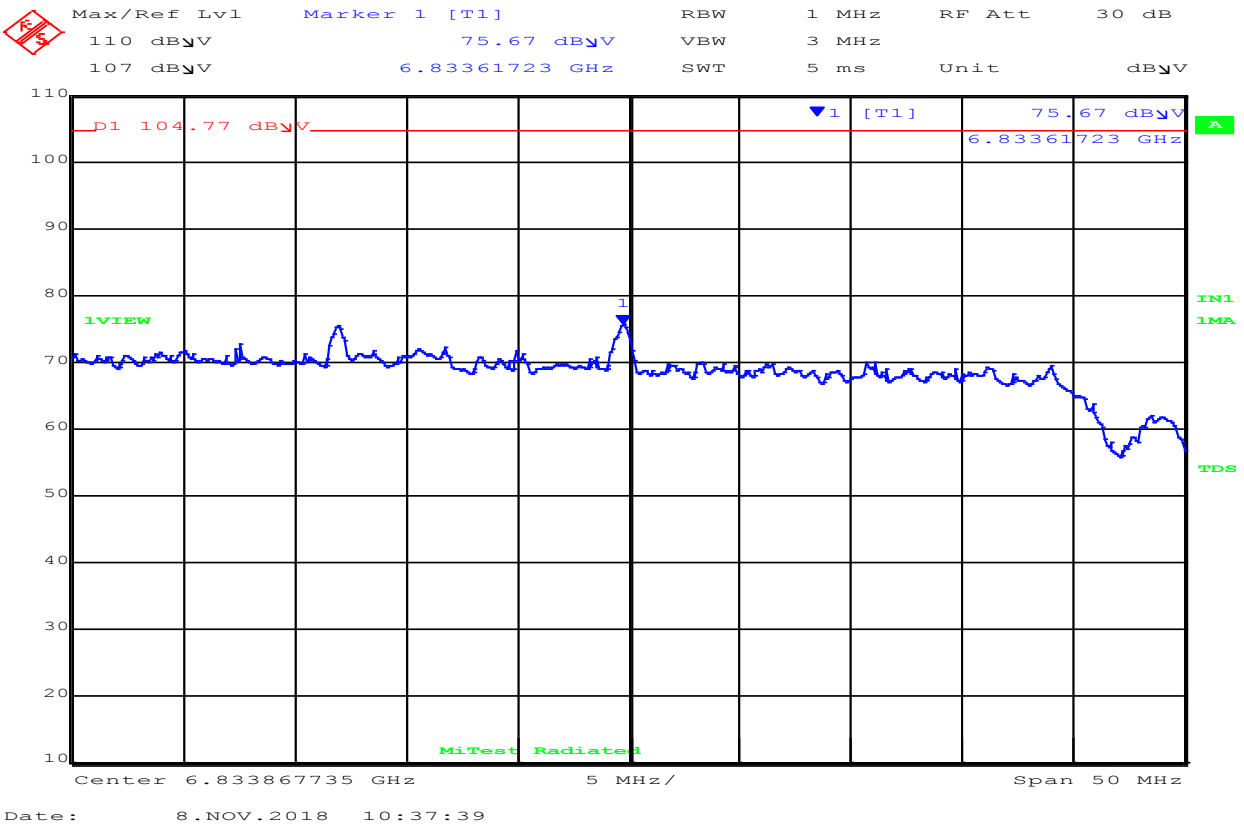
6600 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

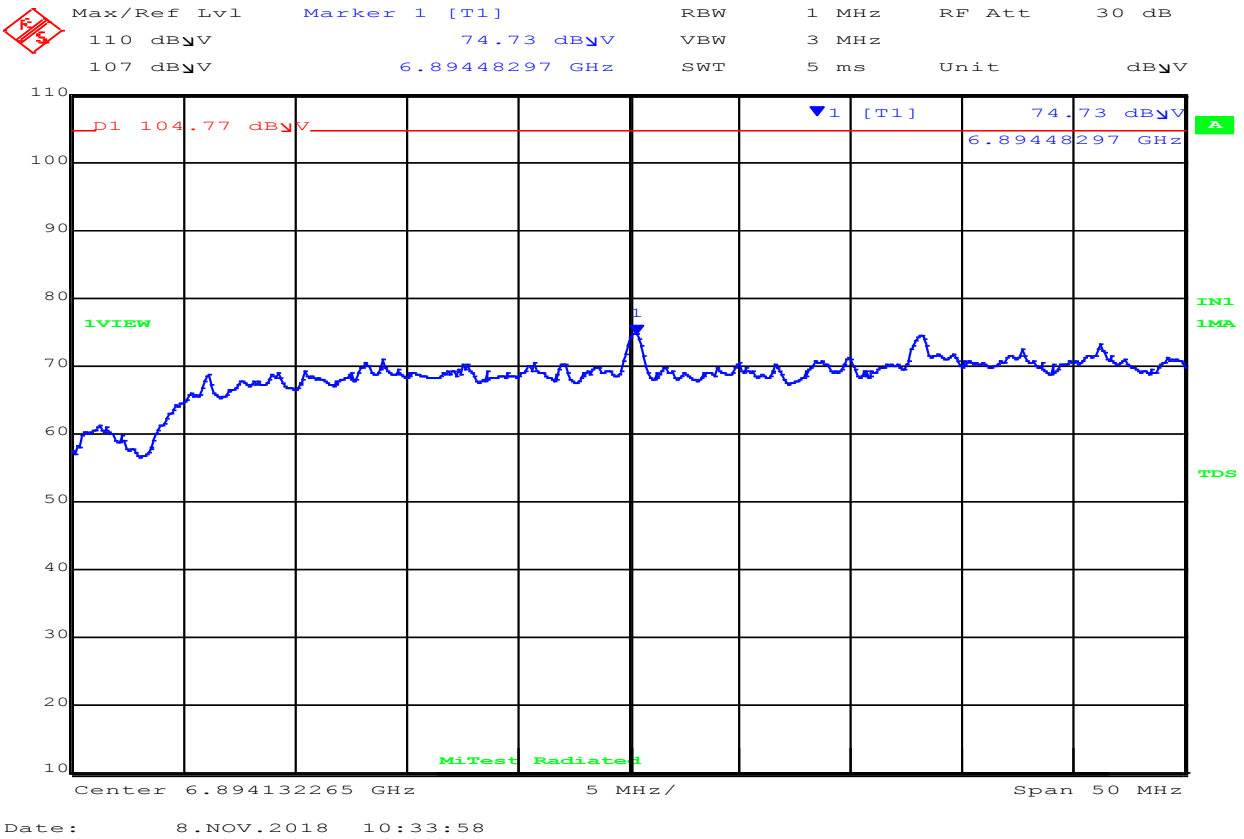
7128 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

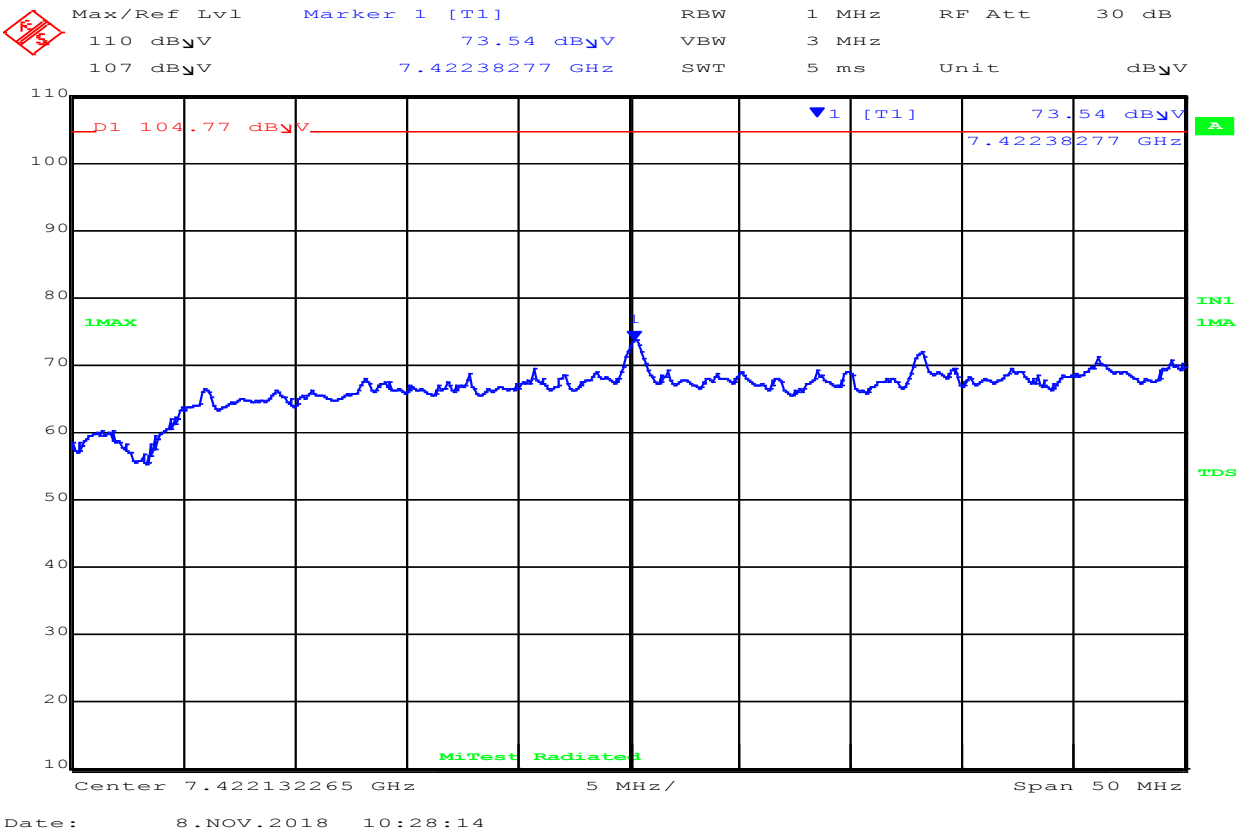
Equipment Configuration for 50 MHz Peak Emissions

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

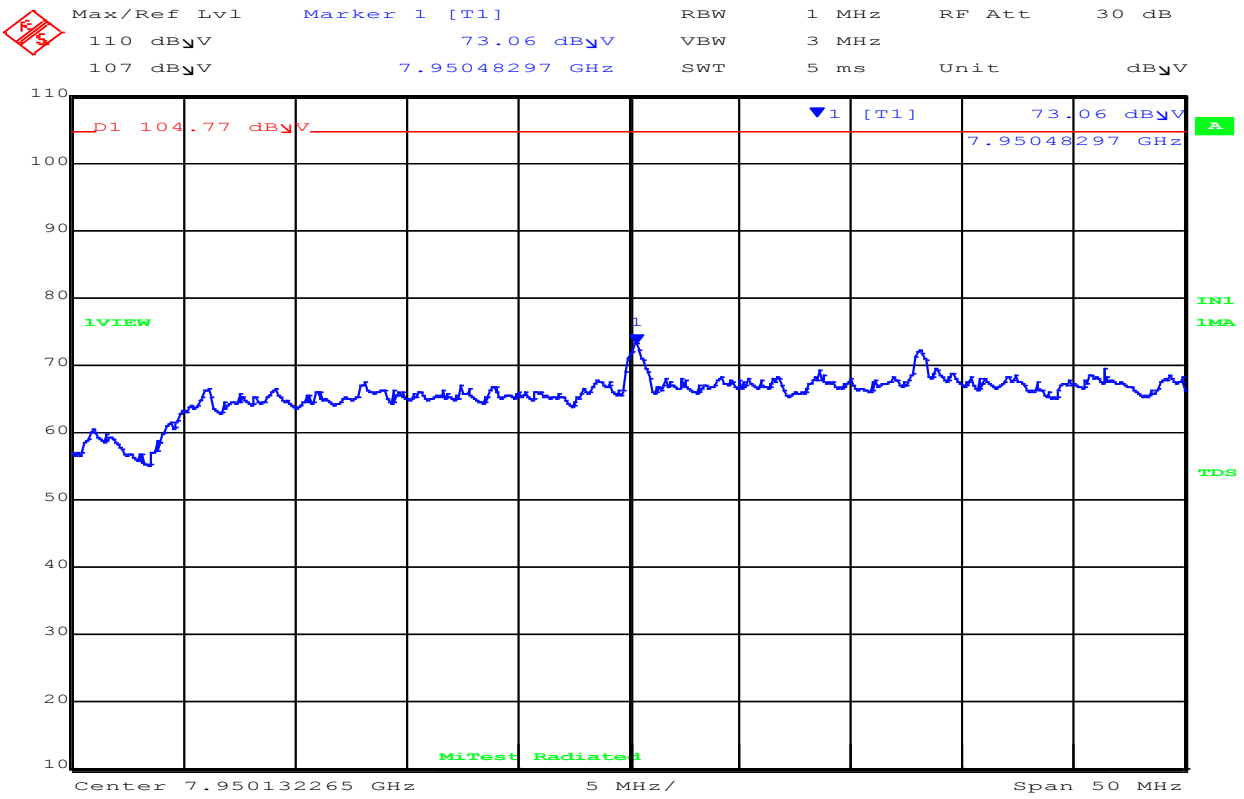
8184 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 8.NOV.2018 10:52:53

50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

8712 MHz

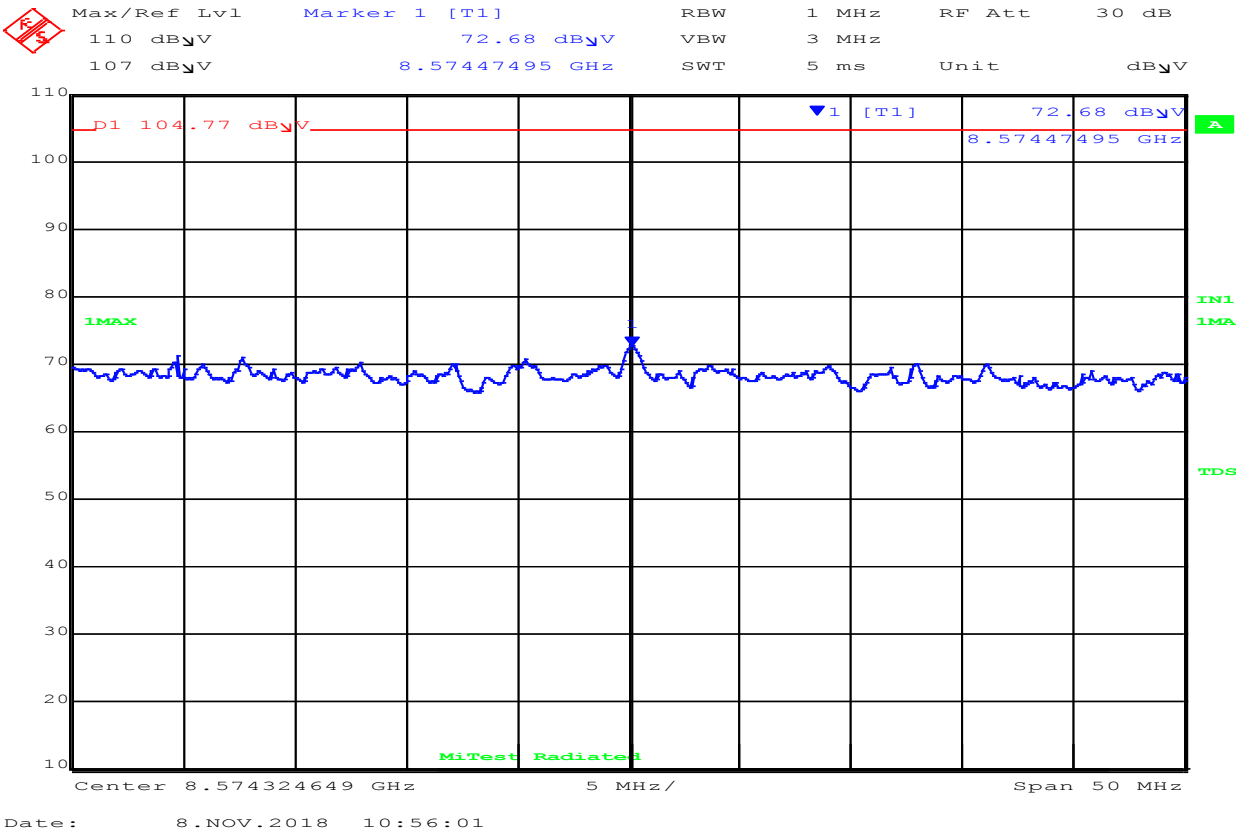
Equipment Configuration for 50 MHz Peak Emissions

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



50 MHz Peak Emissions

Num	Frequency MHz	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
No Signals Found within 6 dB of Limit									

Test Notes:

9.4.3.3. Combat AL5934

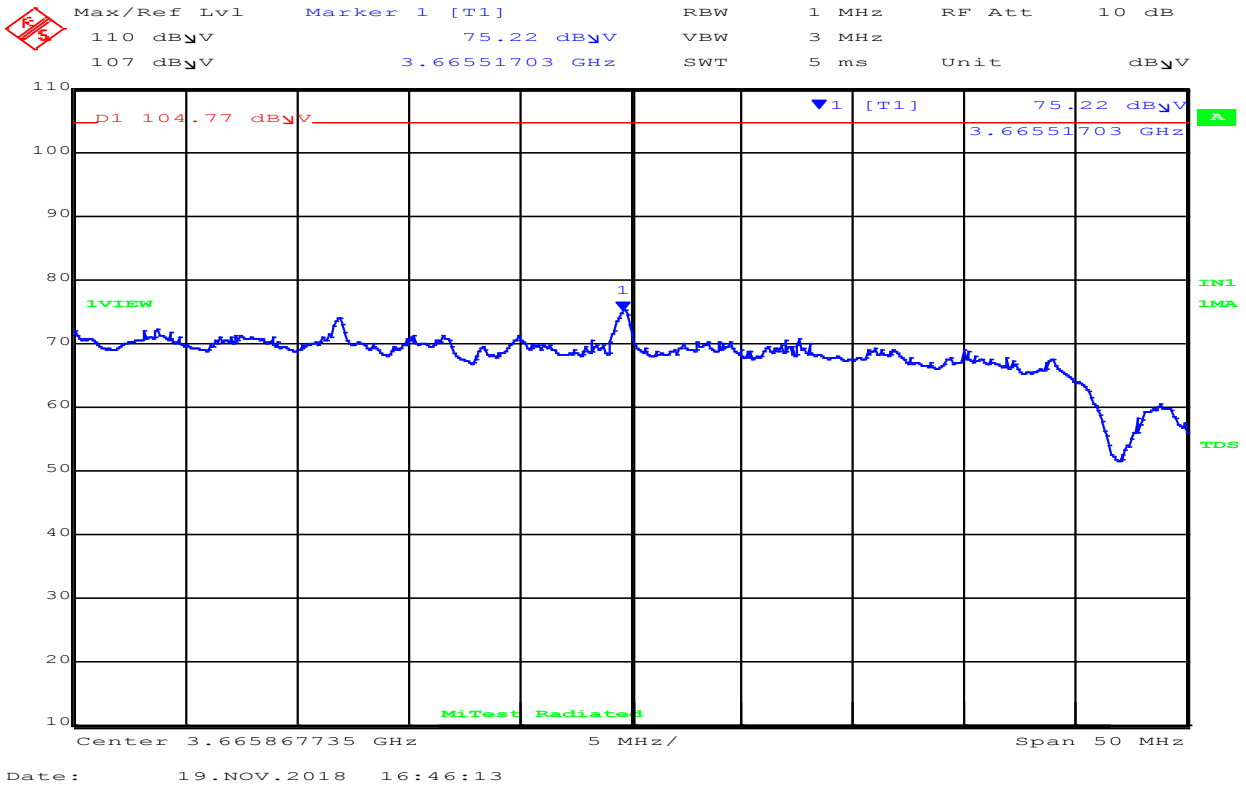
3432 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	1.0	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3432.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 3432 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

3960 MHz

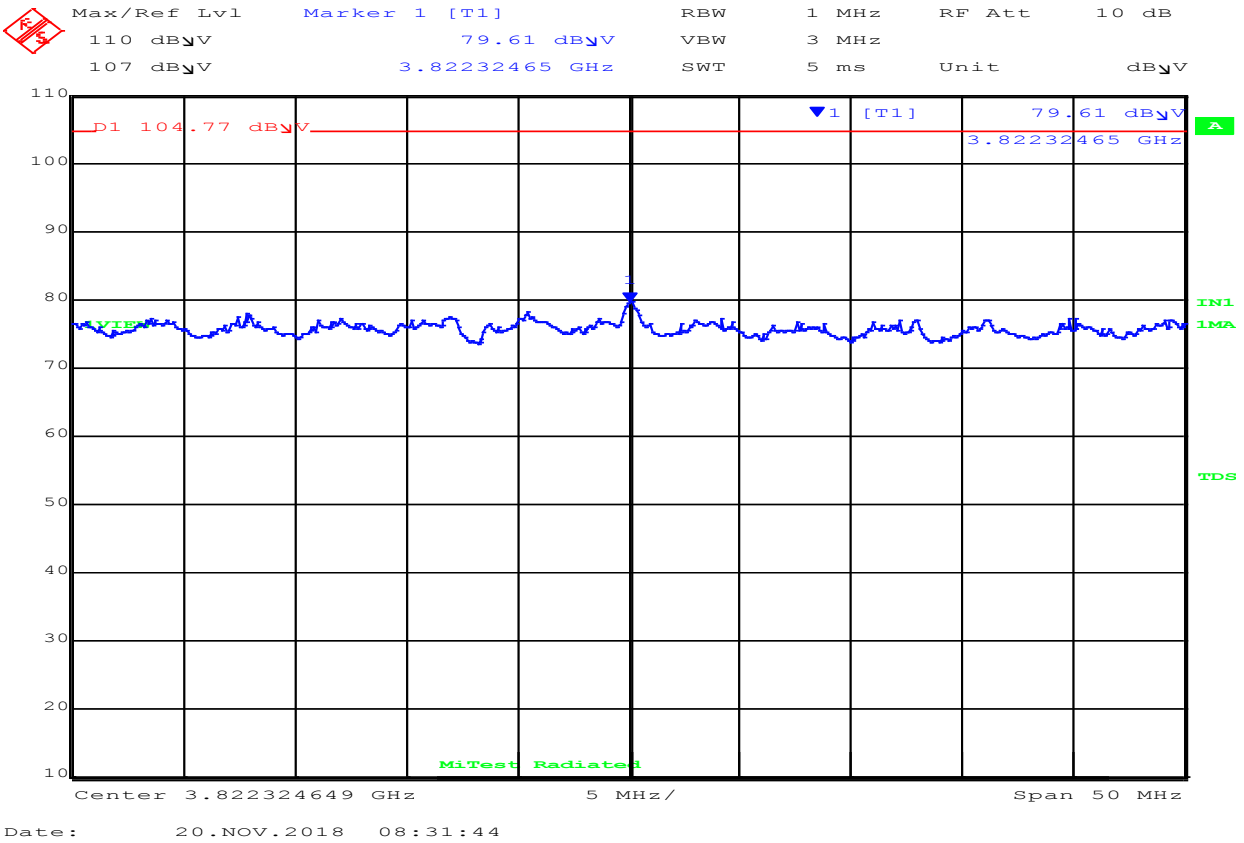
Equipment Configuration for 50 MHz Peak Emissions

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	3960.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 3960 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

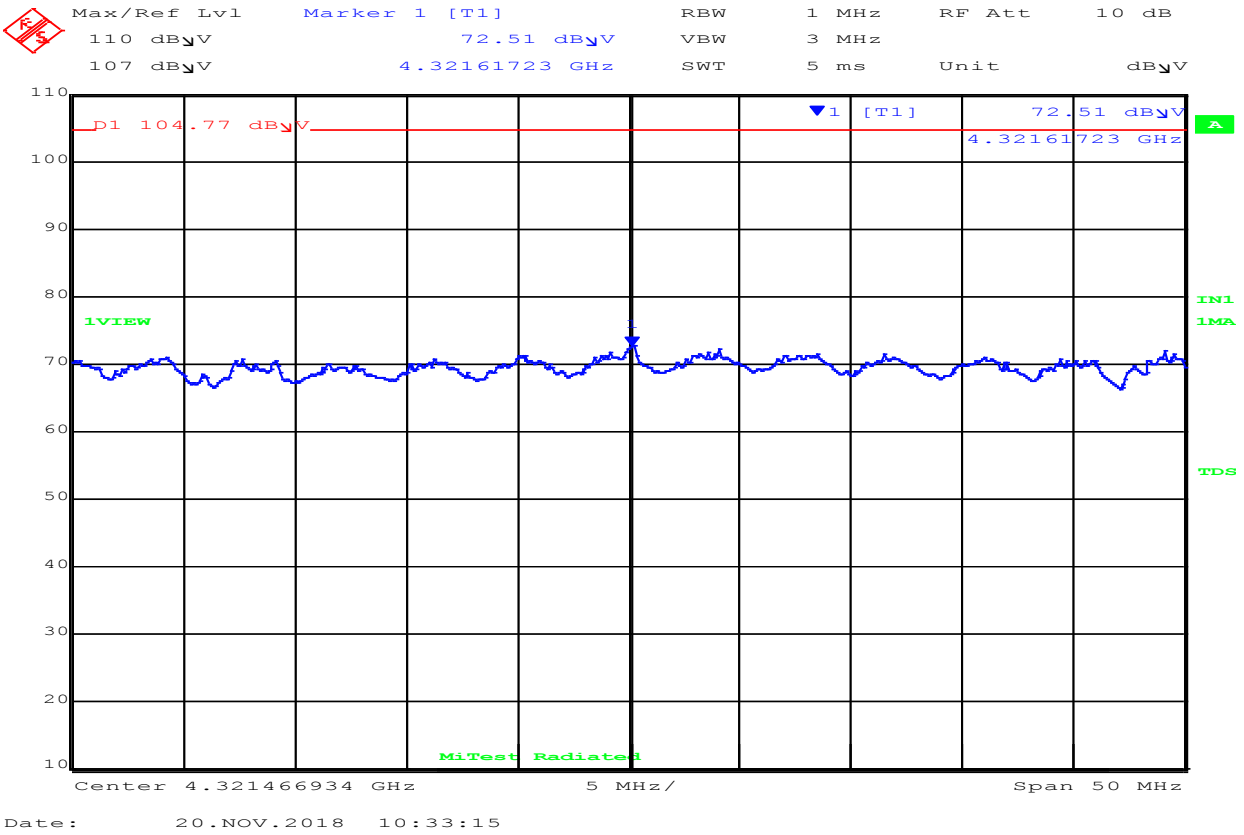
4488 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	4488.00	**Data Rate:**	
Power Setting:	Max	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 4488 MHz, Antenna: integral, Power Setting: 0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

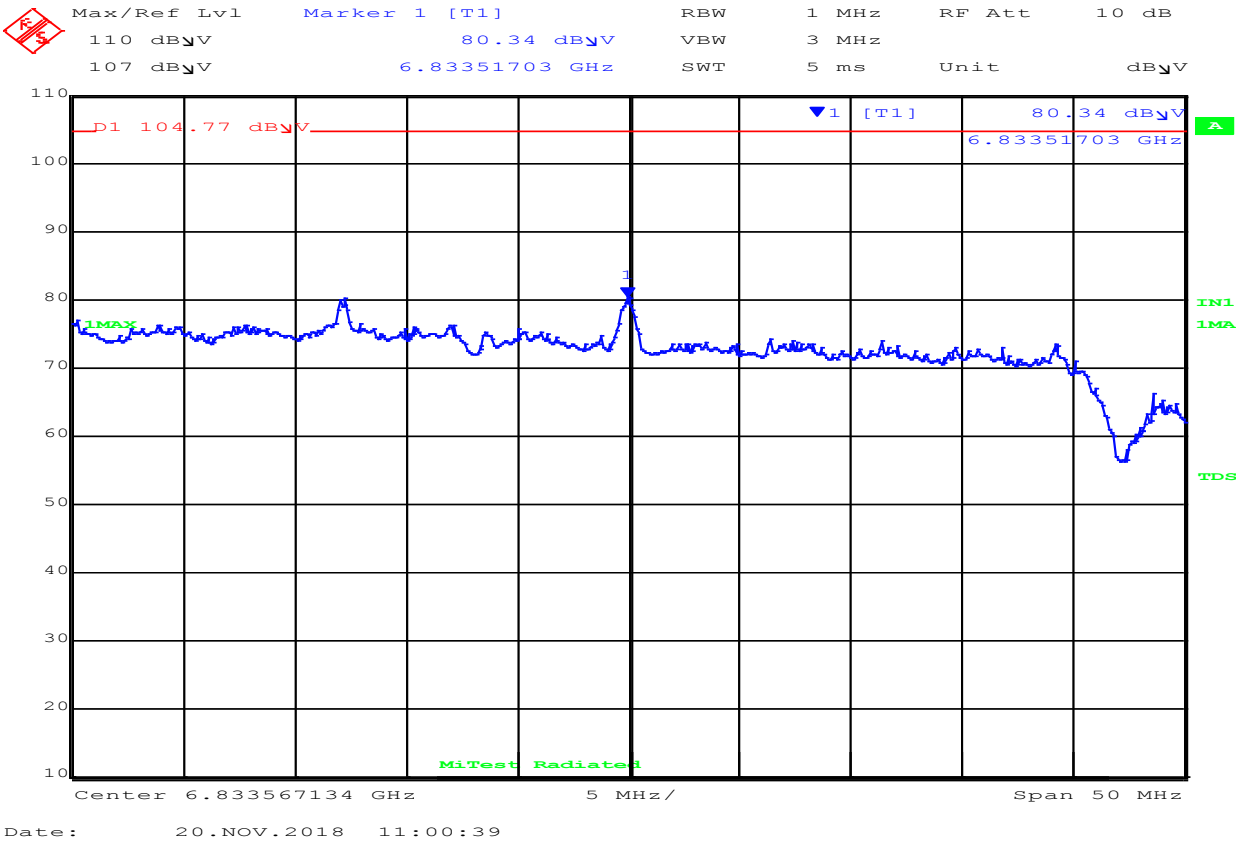
6600 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	6600.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 6600 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

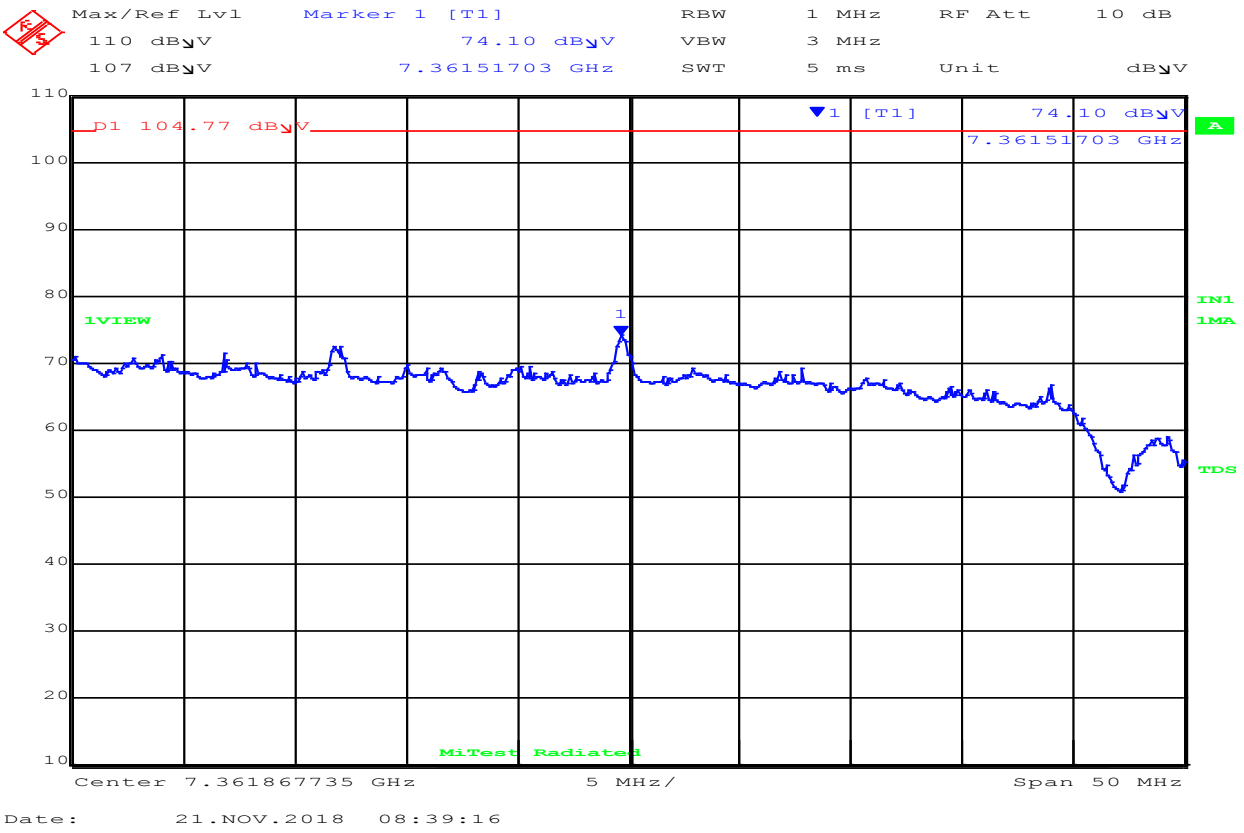
7128 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-0.2	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7128.00	**Data Rate:**	
Power Setting:	2.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 7128 MHz, Antenna: integral, Power Setting: 2.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

7656 MHz (Covers Band Group 3 TFC 7 and Band Group 6 TFC 5

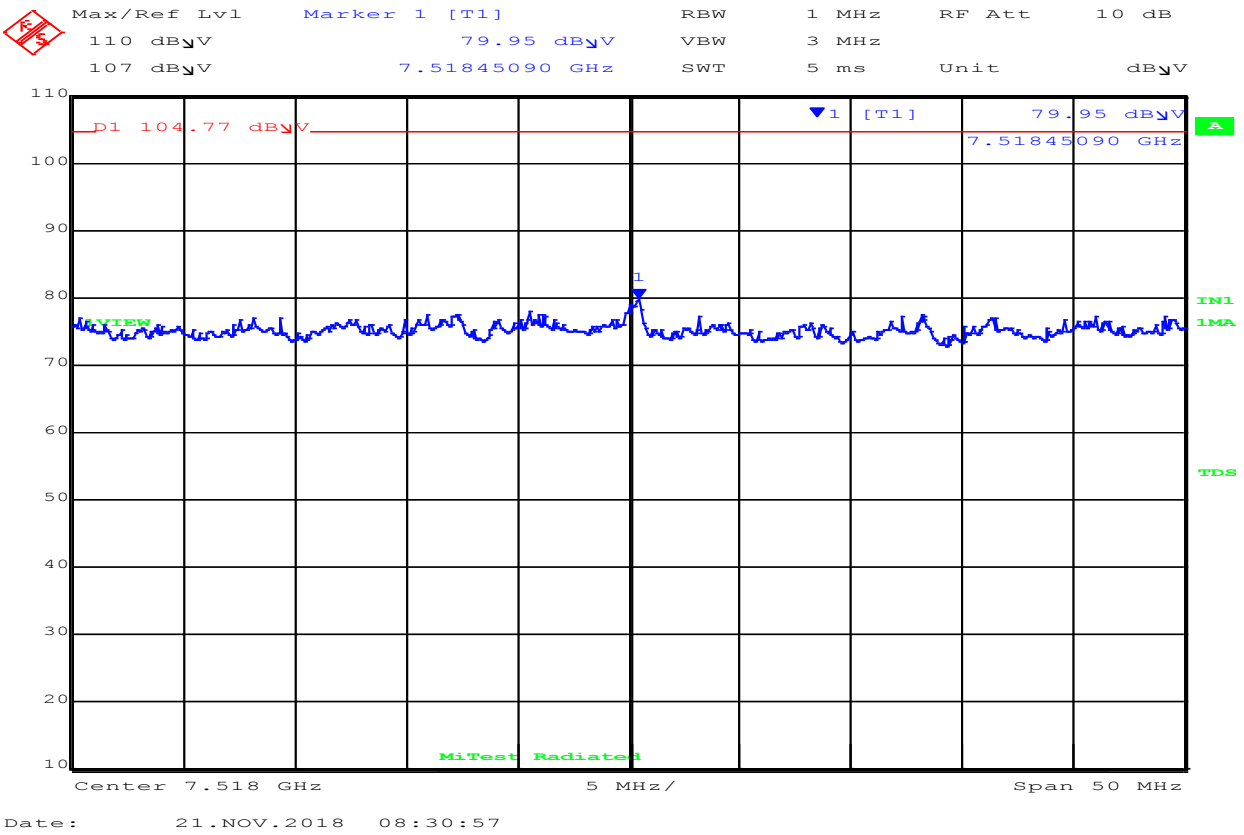
Equipment Configuration for 50 MHz Peak Emissions

Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	0.1	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	7656.00	**Data Rate:**	
Power Setting:	1.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 7656 MHz, Antenna: integral, Power Setting: 1.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

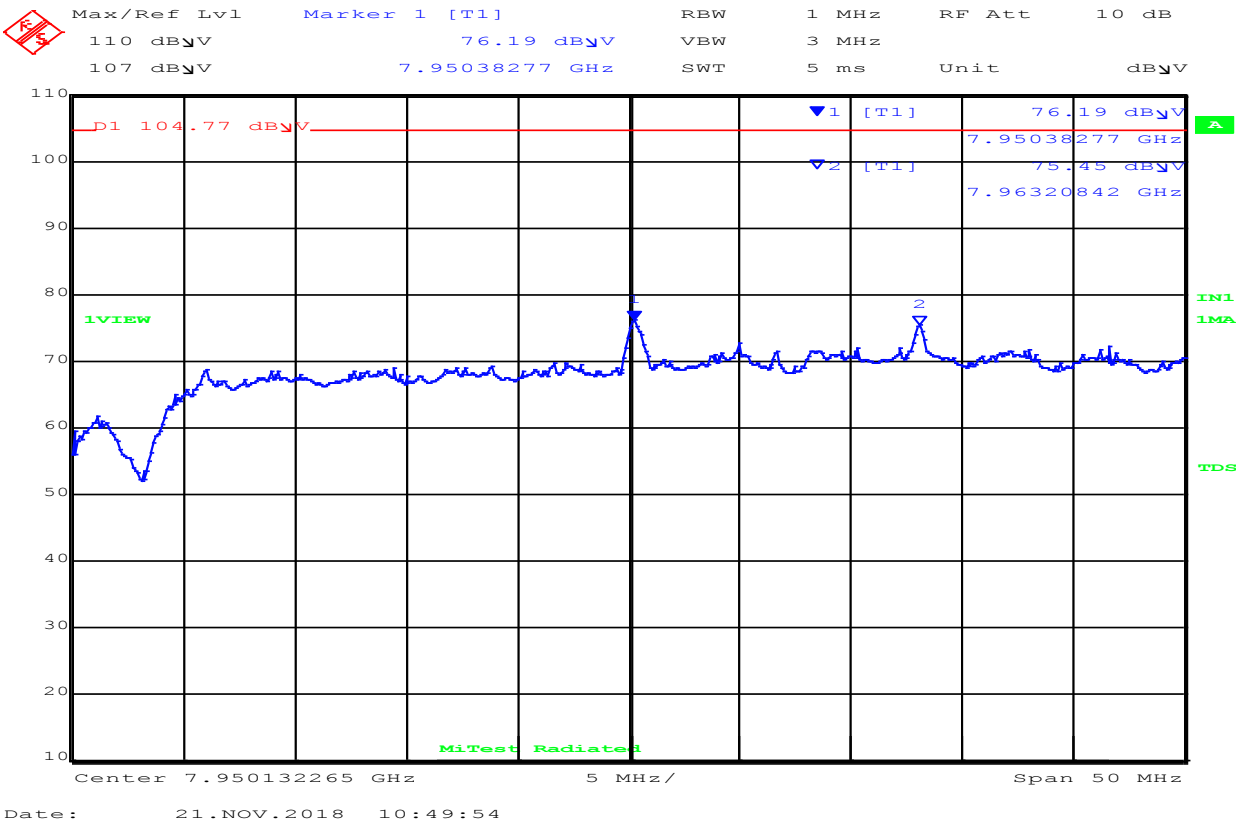
8184 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8184.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 8184 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									

Test Notes:

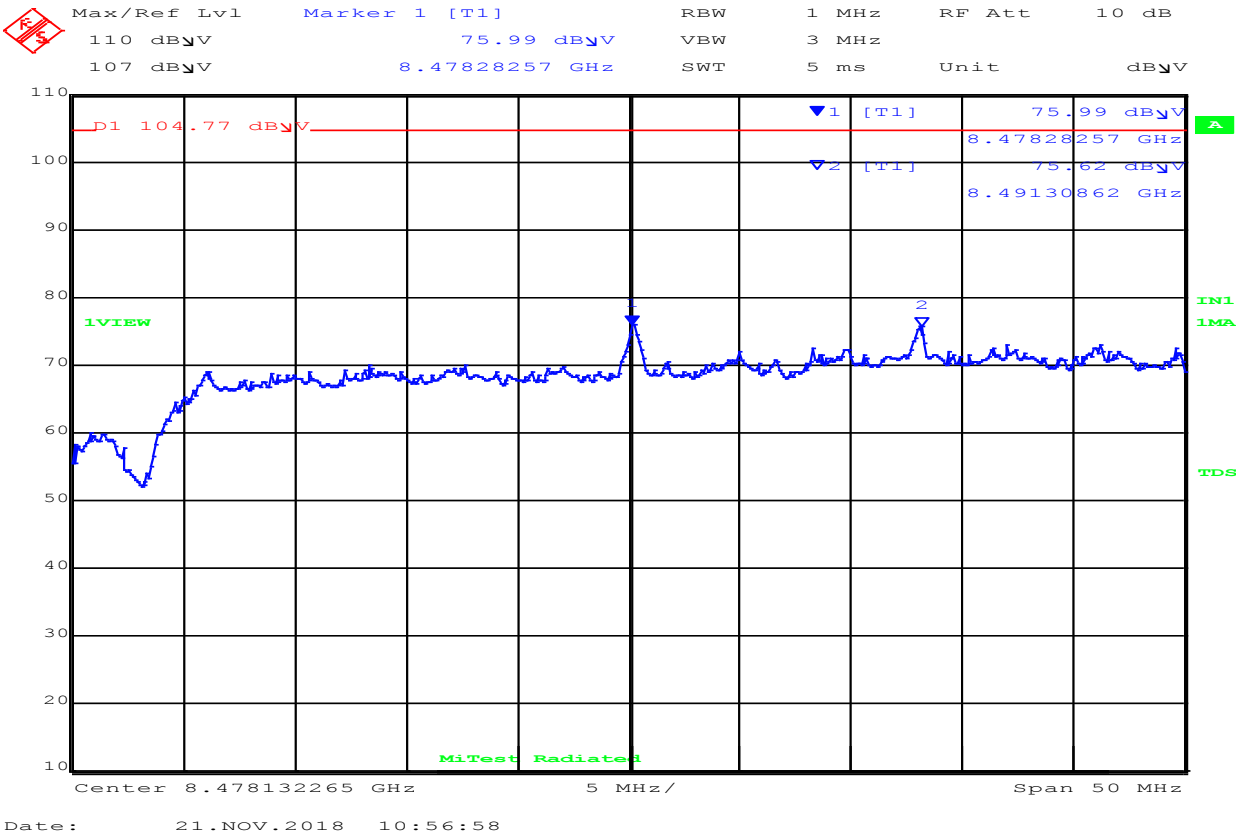
8712 MHz

Equipment Configuration for 50 MHz Peak Emissions			
Antenna:	Chip	**Variant:**	500 MHz Bandwidth
Antenna Gain (dBi):	-1.8	**Modulation:**	BPM/BPSK
Beam Forming Gain (Y):	Not Applicable	**Duty Cycle (%):**	99%
Channel Frequency (MHz):	8712.00	**Data Rate:**	
Power Setting:	0.0	**Tested By:**	JMH

Test Measurement Results

50 MHz Peak Emissions

Test Freq: 8712 MHz, Antenna: integral, Power Setting: 0.0, Duty Cycle (%): 99



Date: 21.NOV.2018 10:56:58

50 MHz Peak Emissions									
Num	**Frequency MHz**	**Level dBµV/m**	**Measurement Type**	**Pol**	**Hgt cm**	**Azt Deg**	**Limit dBµV/m**	**Margin dB**	**Pass /Fail**
No Signals Found within 6 dB of Limit									
Test Notes:									

9.5. Shutoff Timing Requirements

Radiated Test Conditions for Shutoff Timing Requirements			
Standard:	FCC CFR 47:15.519 (a)(1)	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	Shutoff Timing Requirements	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	ANSI C63.10 Section 10.3.6	**Pressure (mBars):**	999 - 1001
Reference Document(s):	None		

Test Procedure for UWB Transmission

Testing was performed under ambient conditions at nominal voltage.

Test configuration and setup used for the measurement was per the Radiated Test Set-up section specified in this document.

Operating Frequency Band:
3100-10600 MHz

Limits
The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received.

Equipment Configuration for Shutdown Timing Requirements

Variant:	Band Group 6	**Duty Cycle (%):**	99
Data Rate:	-	**Antenna Gain (dBi):**	Client Info Required
Modulation:	BPM/BPSK	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:	1. Timing behavior is identical in all 3 models. Testing performed on the USB variant and is representative of all 3 models.		

Test Measurement Results

Frequency (MHz)	Shutdown Time	Limit	Margin	EUT Power Setting
	(s)	(s)	(s)	Numeric
8712.00	2.120	10	-7.88	1

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Uncertainty:	±1.33 dB

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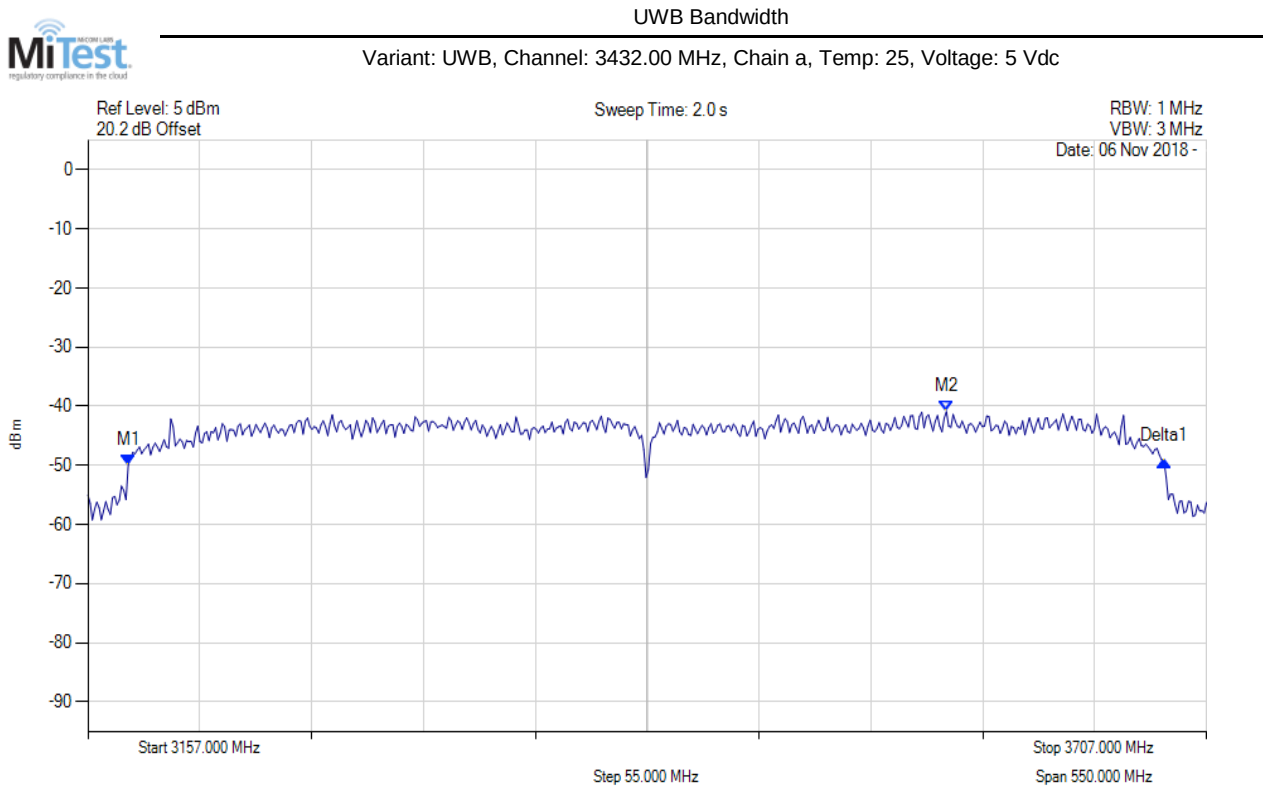
A. APPENDIX - GRAPHICAL IMAGES

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

A.1. UWB Bandwidth

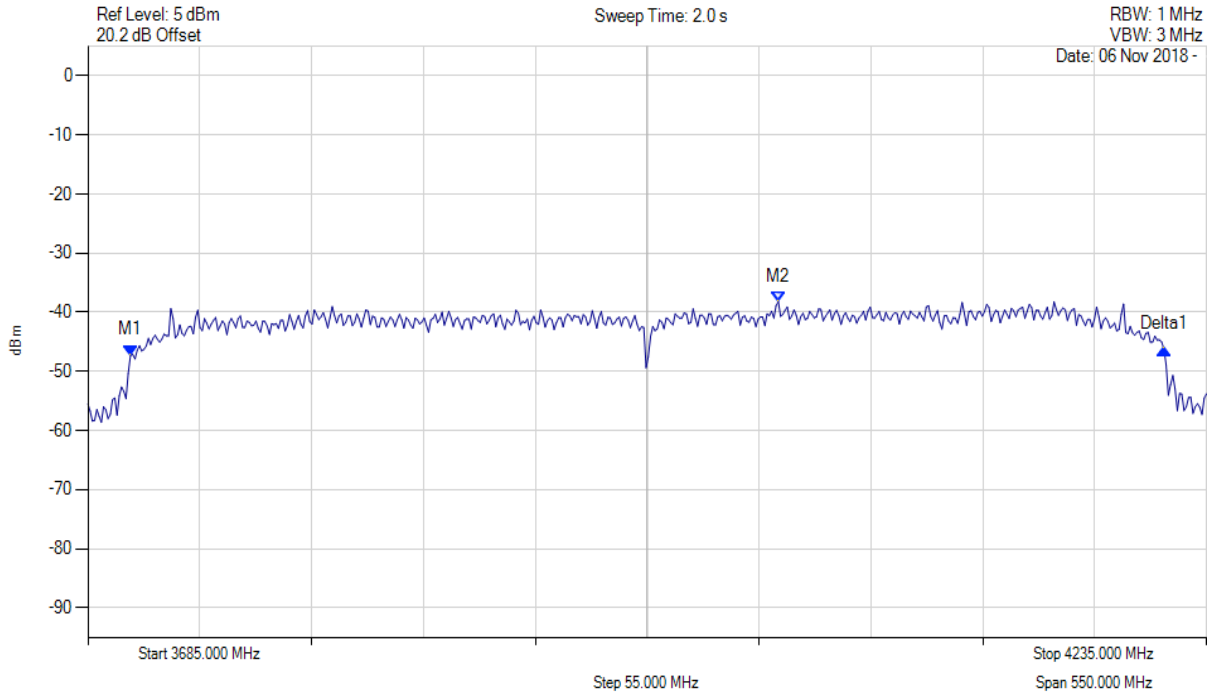


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 3176.884 MHz : -49.962 dBm M2 : 3579.144 MHz : -40.865 dBm Delta1 : 509.174 MHz : 0.787 dB	Channel Frequency: 3432.00 MHz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 3960.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

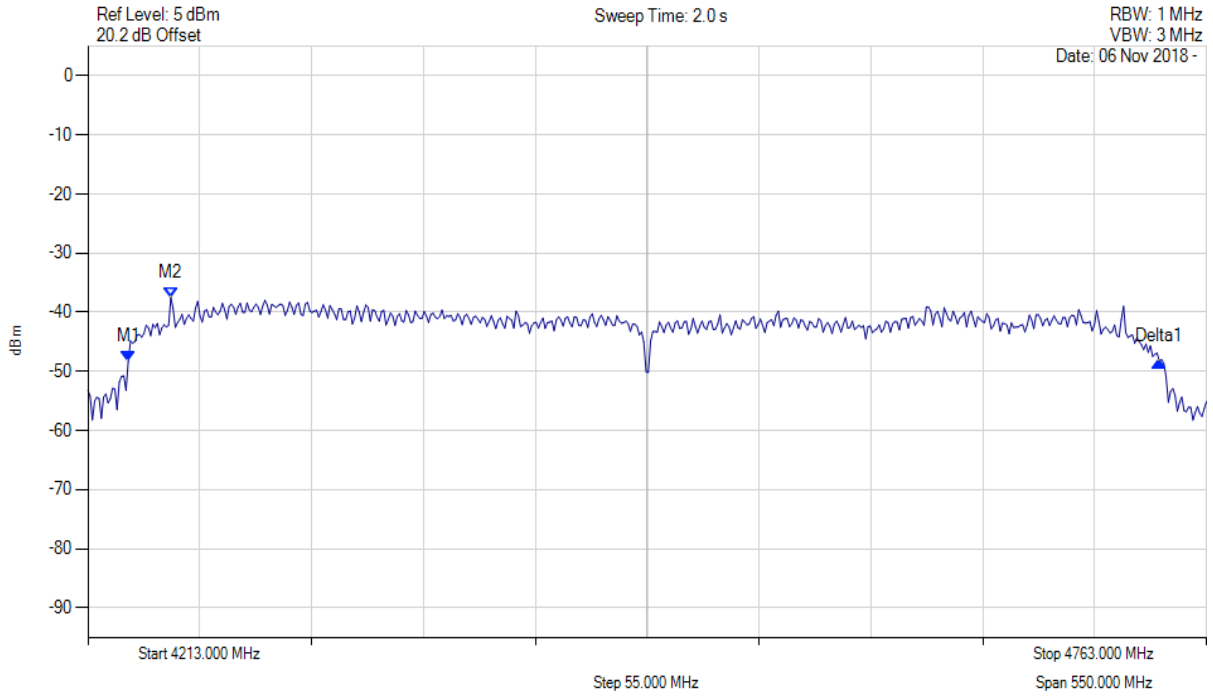


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 3705.942 MHz : -47.255 dBm M2 : 4024.479 MHz : -38.193 dBm Delta1 : 508.116 MHz : 1.092 dB	Channel Frequency: 3960.00 MHz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 4488.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

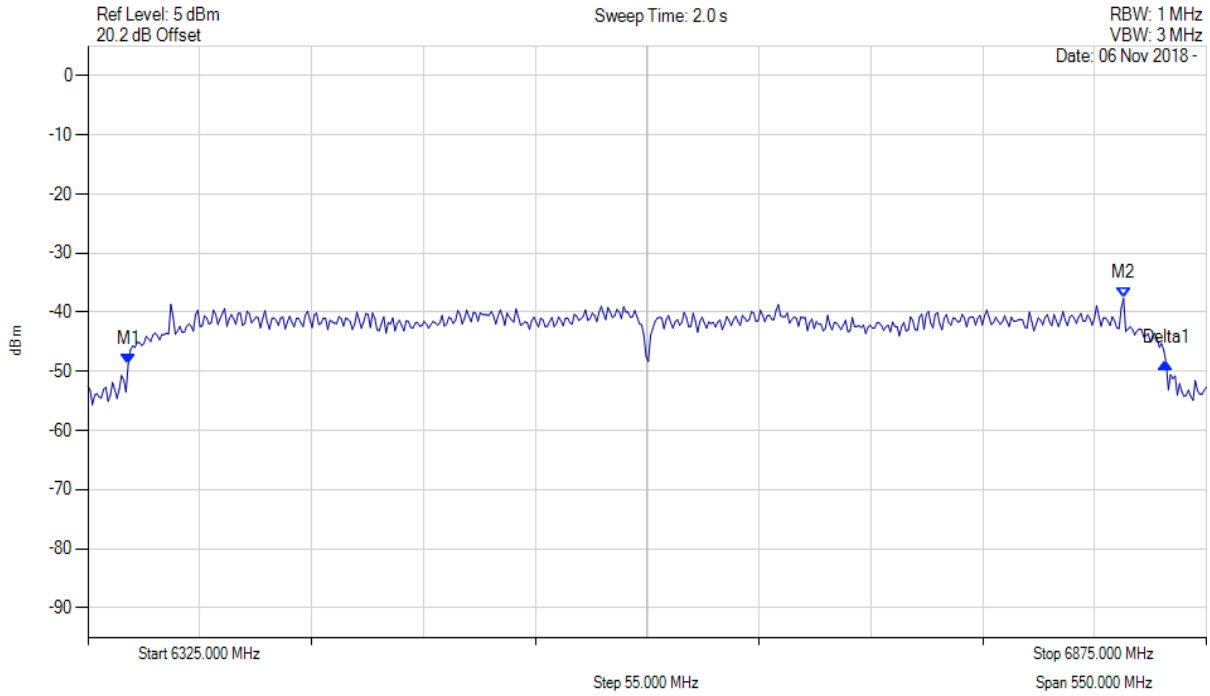


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 4232.840 MHz : -48.343 dBm M2 : 4253.782 MHz : -37.497 dBm Delta1 : 507.014 MHz : 0.014 dB	Channel Frequency: 4488.00 MHz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 6600.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 6344.840 MHz : -48.727 dBm M2 : 6834.218 MHz : -37.625 dBm Delta1 : 510.321 MHz : 0.205 dB	Channel Frequency: 6600.00 MHz

back to matrix

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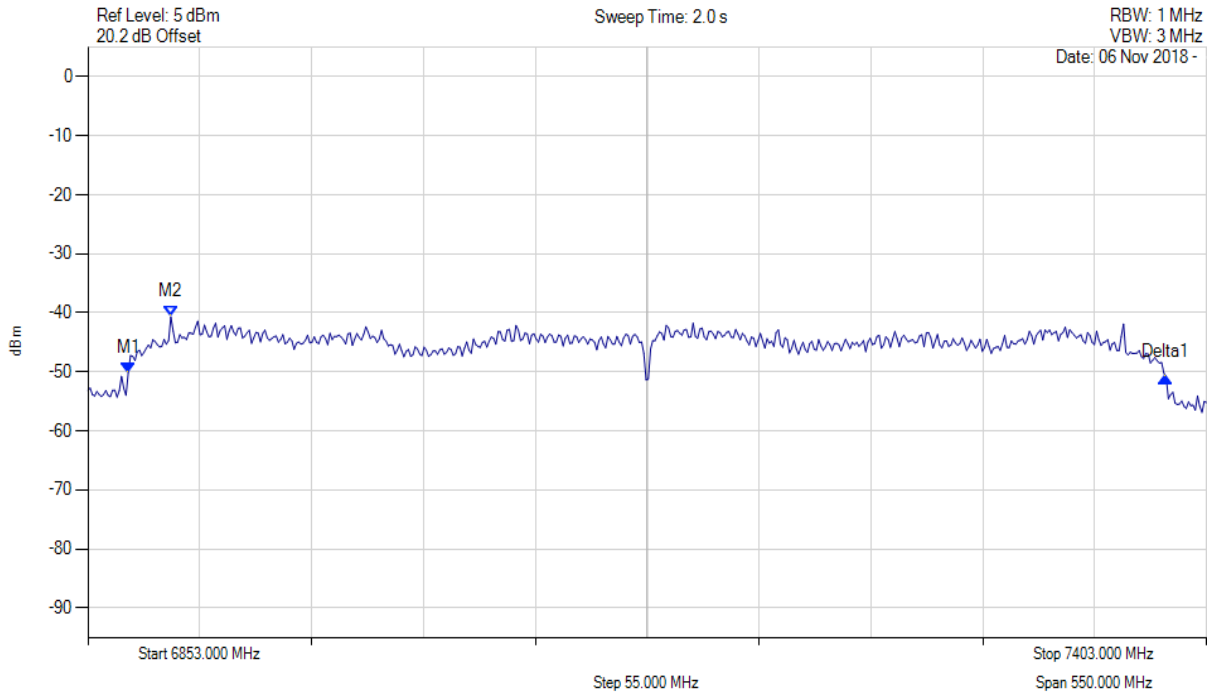
UWB Bandwidth

Variant: UWB, Channel: 7128.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

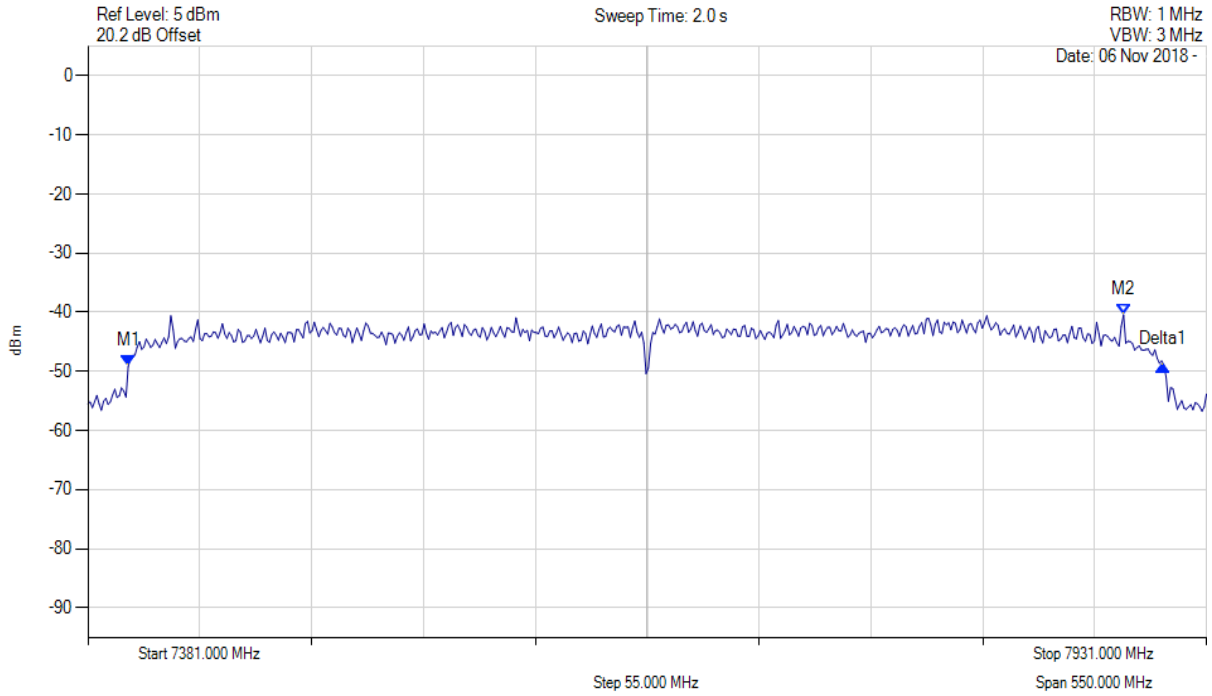


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 6872.840 MHz : -50.171 dBm M2 : 6893.782 MHz : -40.658 dBm Delta1 : 509.920 MHz : -0.687 dB	Channel Frequency: 7128.00 MHz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 7656.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

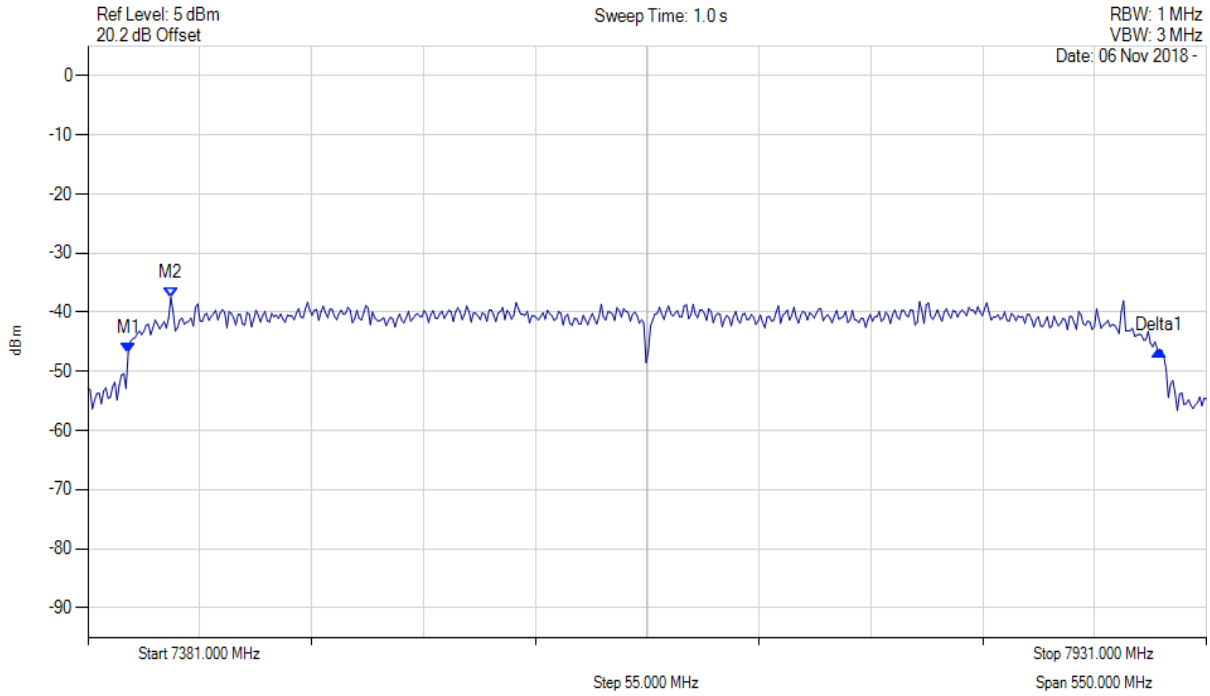


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 7400.840 MHz : -49.106 dBm M2 : 7890.218 MHz : -40.409 dBm Delta1 : 508.818 MHz : 0.214 dB	Channel Frequency: 7656.00 MHz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 7656.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

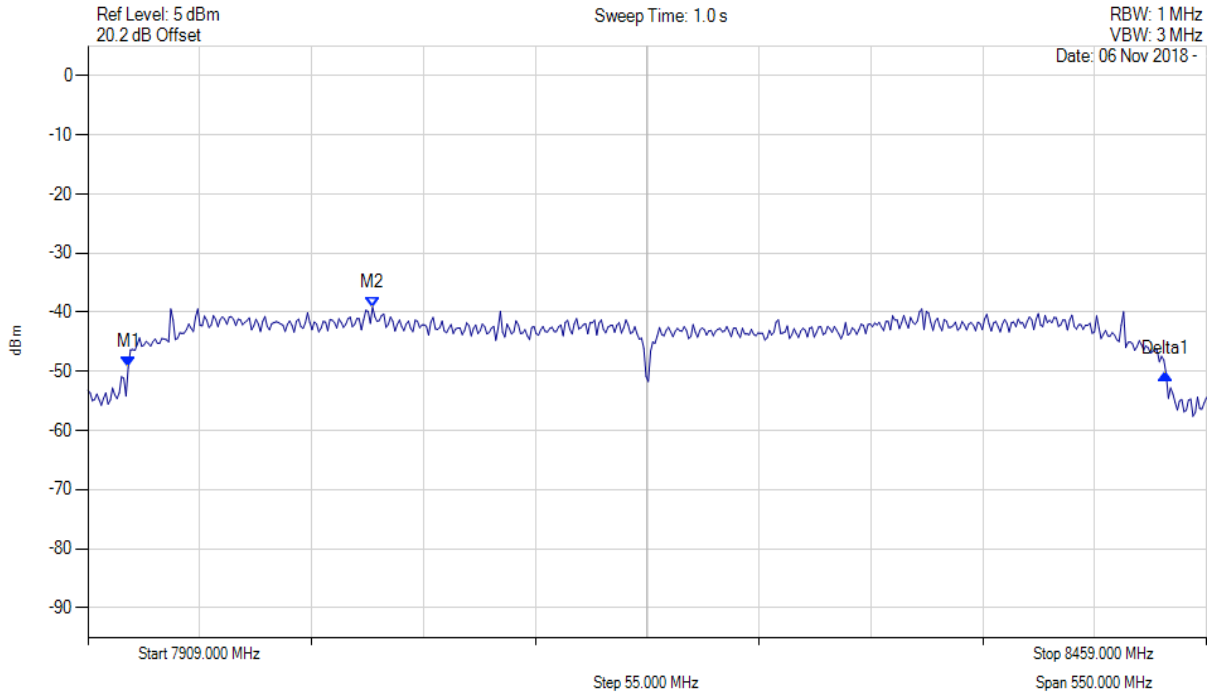


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 7400.840 MHz : -46.810 dBm M2 : 7421.782 MHz : -37.489 dBm Delta1 : 506.613 MHz : 0.307 dB	Channel Frequency: 0 Hz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 8184.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

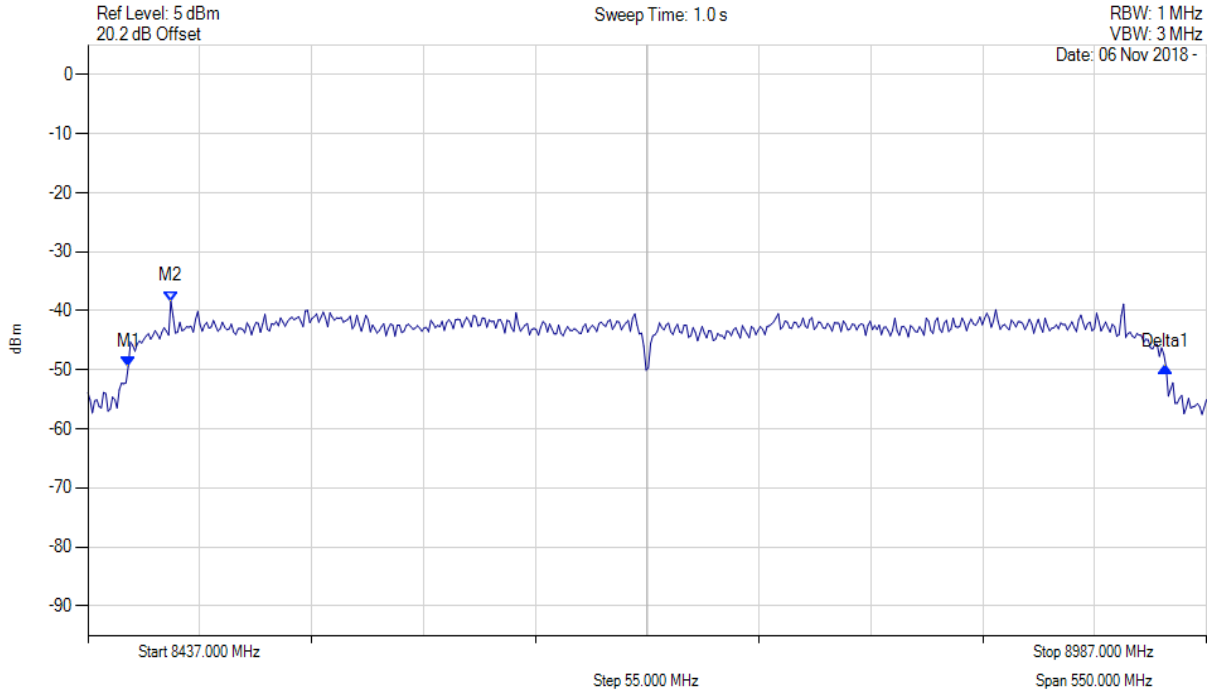


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 7928.840 MHz : -49.315 dBm M2 : 8048.980 MHz : -39.169 dBm Delta1 : 509.920 MHz : -1.074 dB	Channel Frequency: 8184.00 MHz

back to matrix

UWB Bandwidth

Variant: UWB, Channel: 8712.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 8456.840 MHz : -49.468 dBm M2 : 8477.782 MHz : -38.388 dBm Delta1 : 509.920 MHz : -0.057 dB	Channel Frequency: 8712.00 MHz

back to matrix

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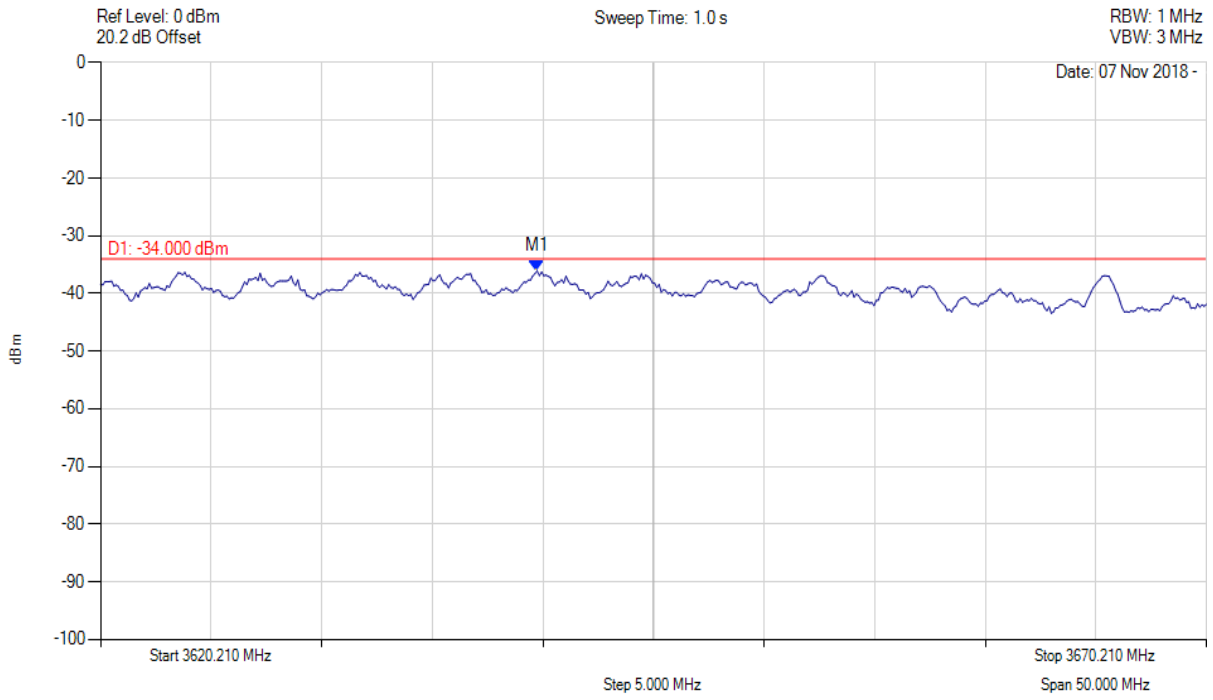
A.2. Peak Power Density

Peak Power Density

Variant: UWB, Channel: 3432.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

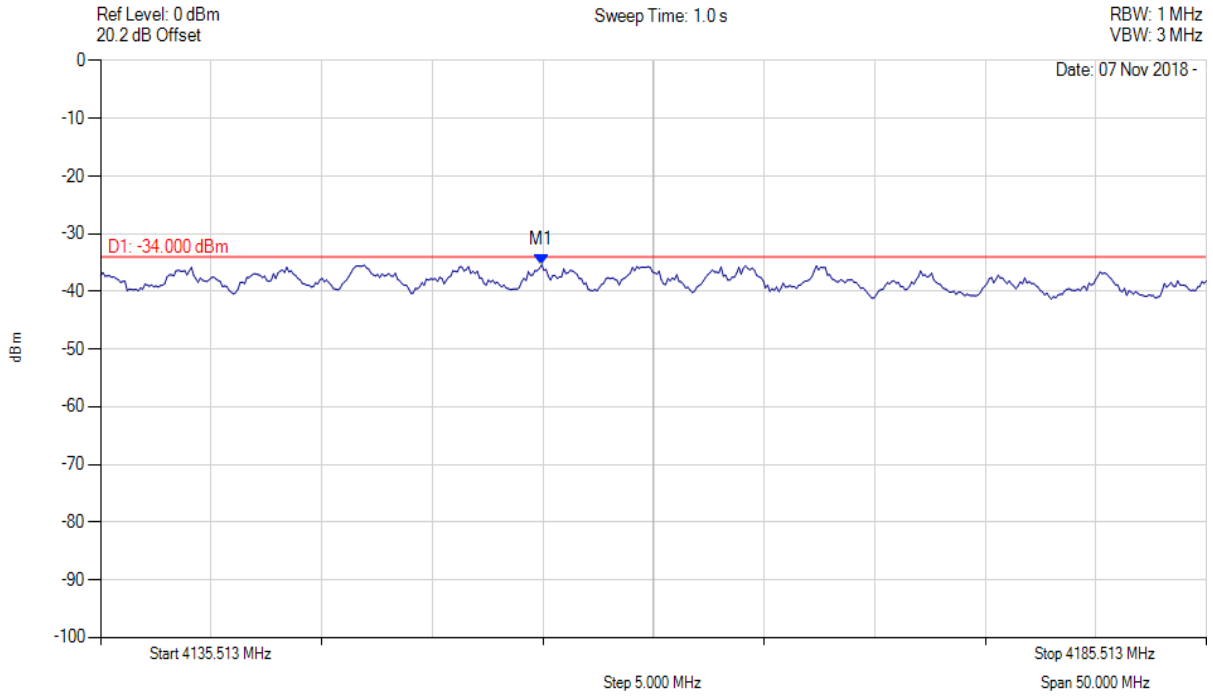


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 3639.950 MHz : -36.101 dBm	Channel Frequency: 3432.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 3690.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

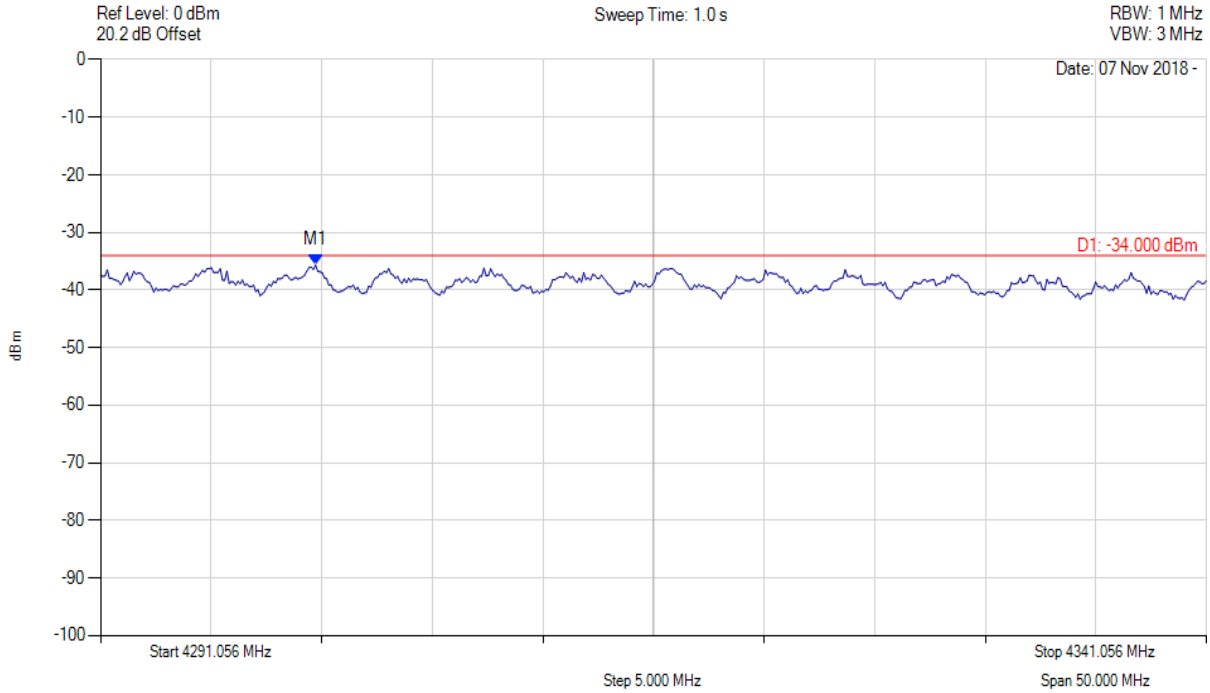


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 4155.453 MHz : -35.379 dBm	Channel Frequency: 3690.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 4488.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

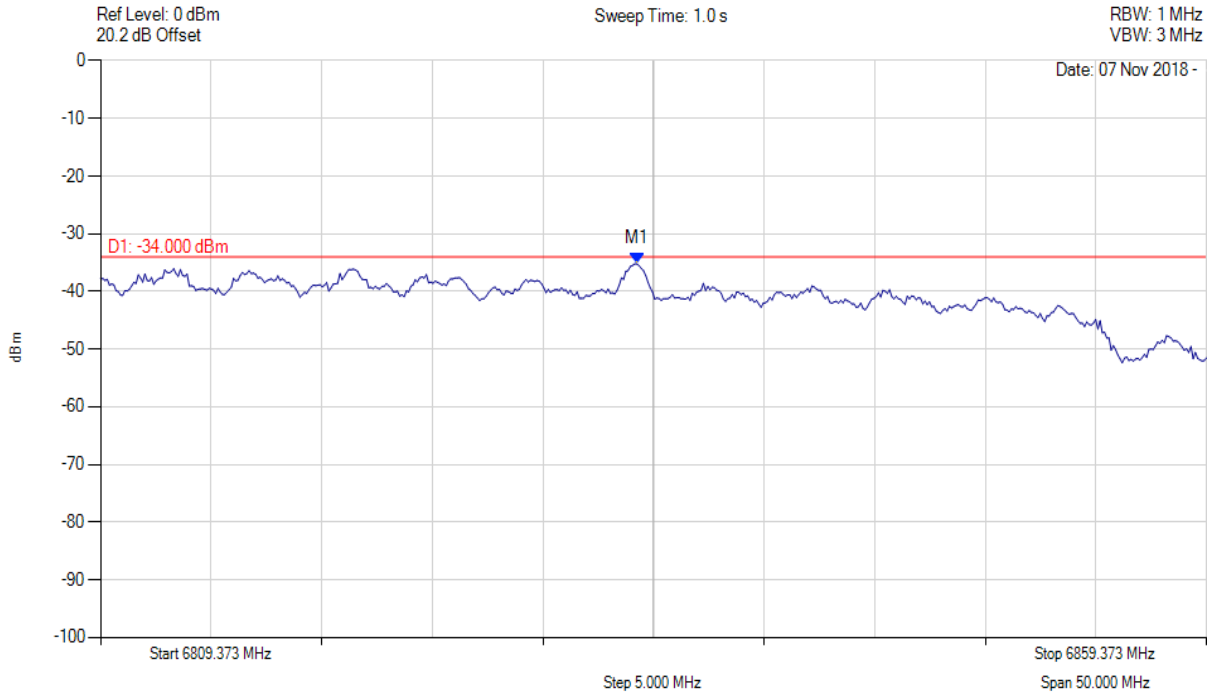


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 4300.776 MHz : -35.635 dBm	Channel Frequency: 4488.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 6600.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

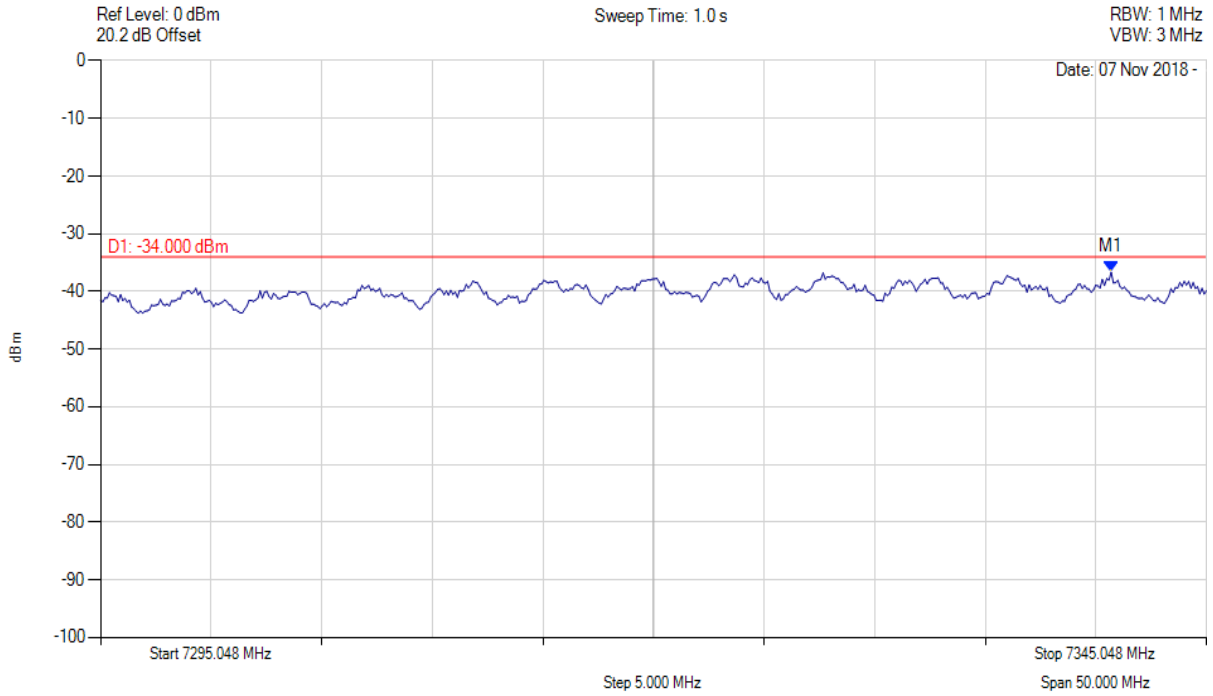


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 6833.621 MHz : -35.220 dBm	Channel Frequency: 6600.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 7128.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

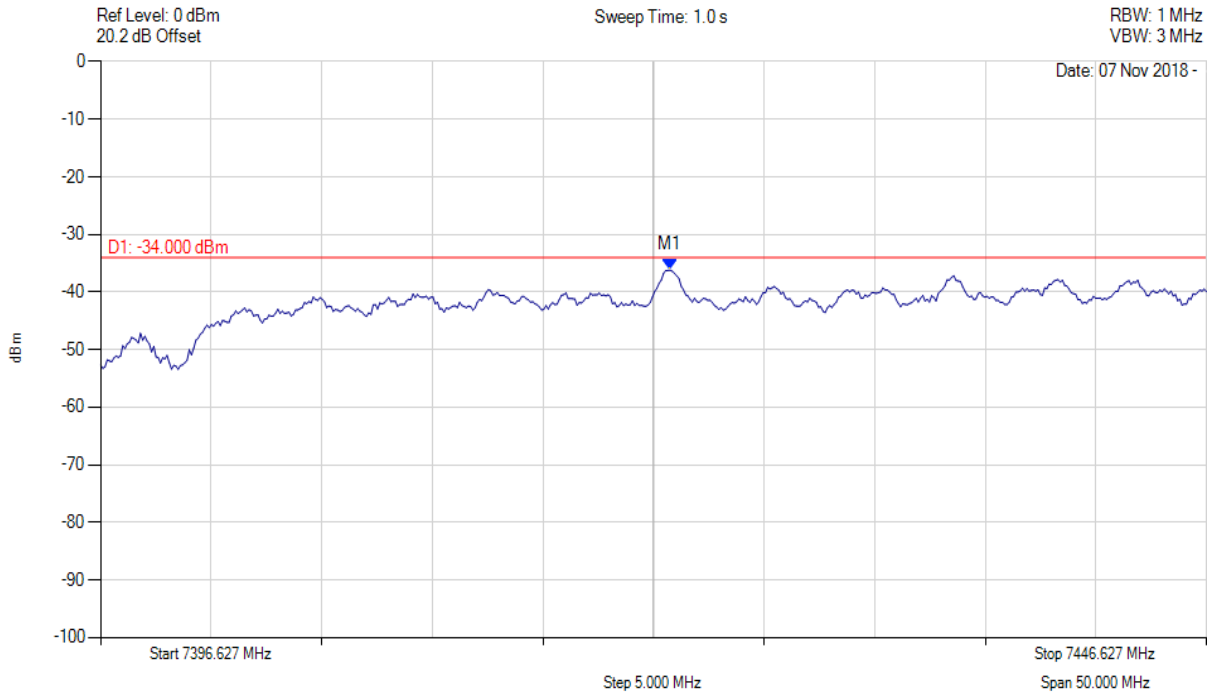


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 7340.739 MHz : -36.648 dBm	Channel Frequency: 7128.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 7656.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

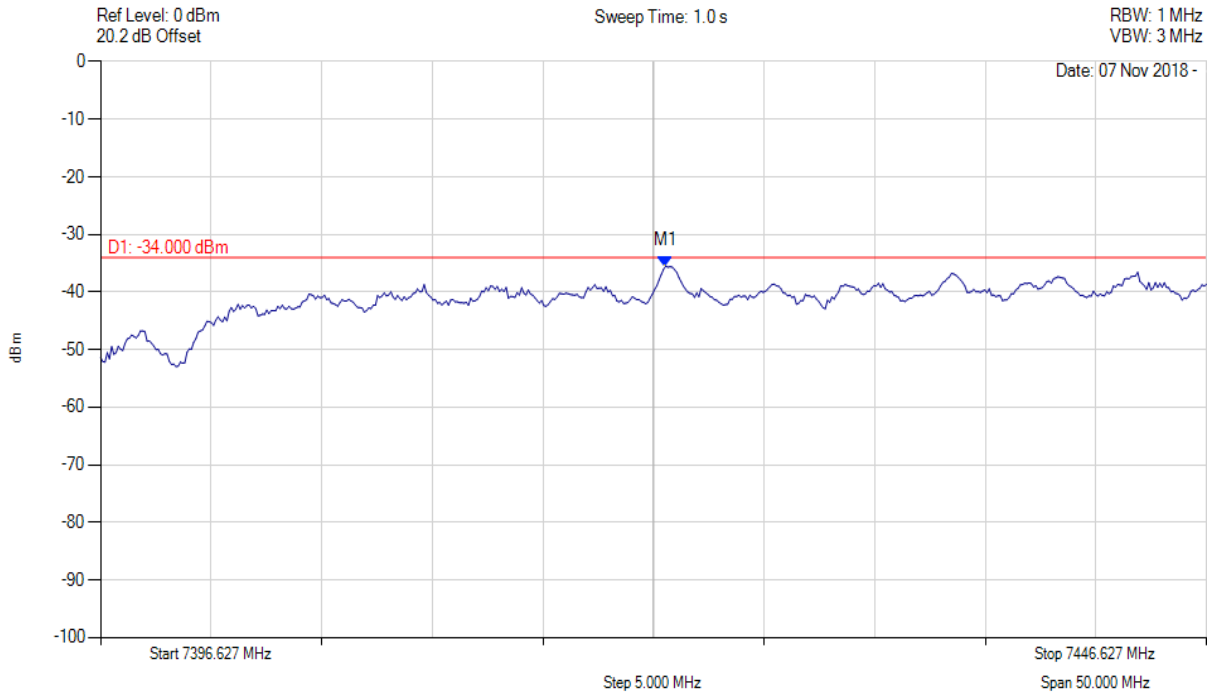


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 7422.379 MHz : -36.188 dBm	Channel Frequency: 7656.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 7656 Hz, Chain a, Temp: 25, Voltage: 5 Vdc

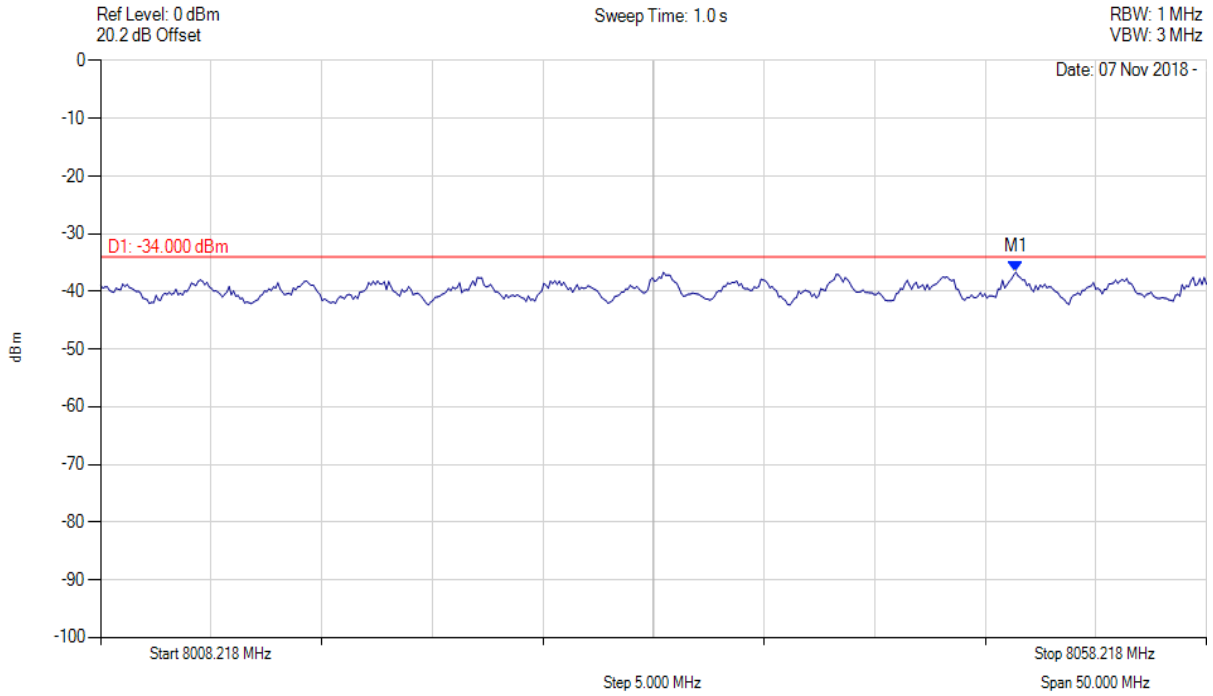


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 7422.178 MHz : -35.495 dBm	Channel Frequency: 0 Hz

back to matrix

Peak Power Density

Variant: UWB, Channel: 8184.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc

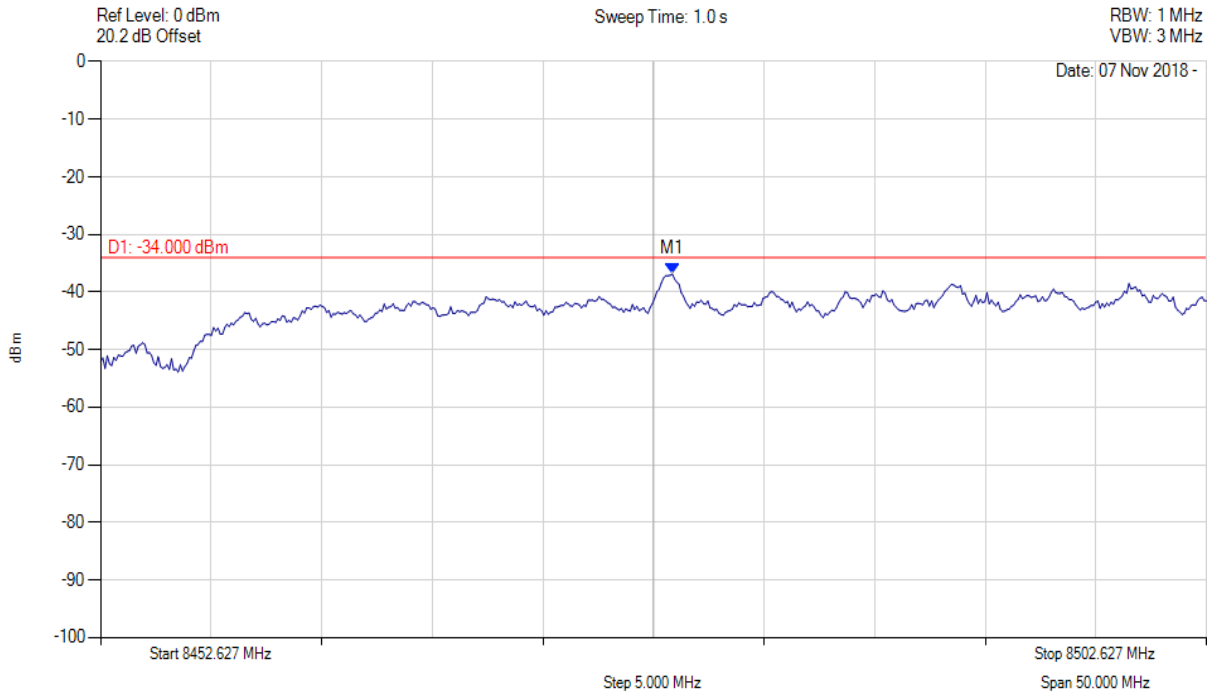


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 8049.601 MHz : -36.648 dBm	Channel Frequency: 8184.00 MHz

back to matrix

Peak Power Density

Variant: UWB, Channel: 8712.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc



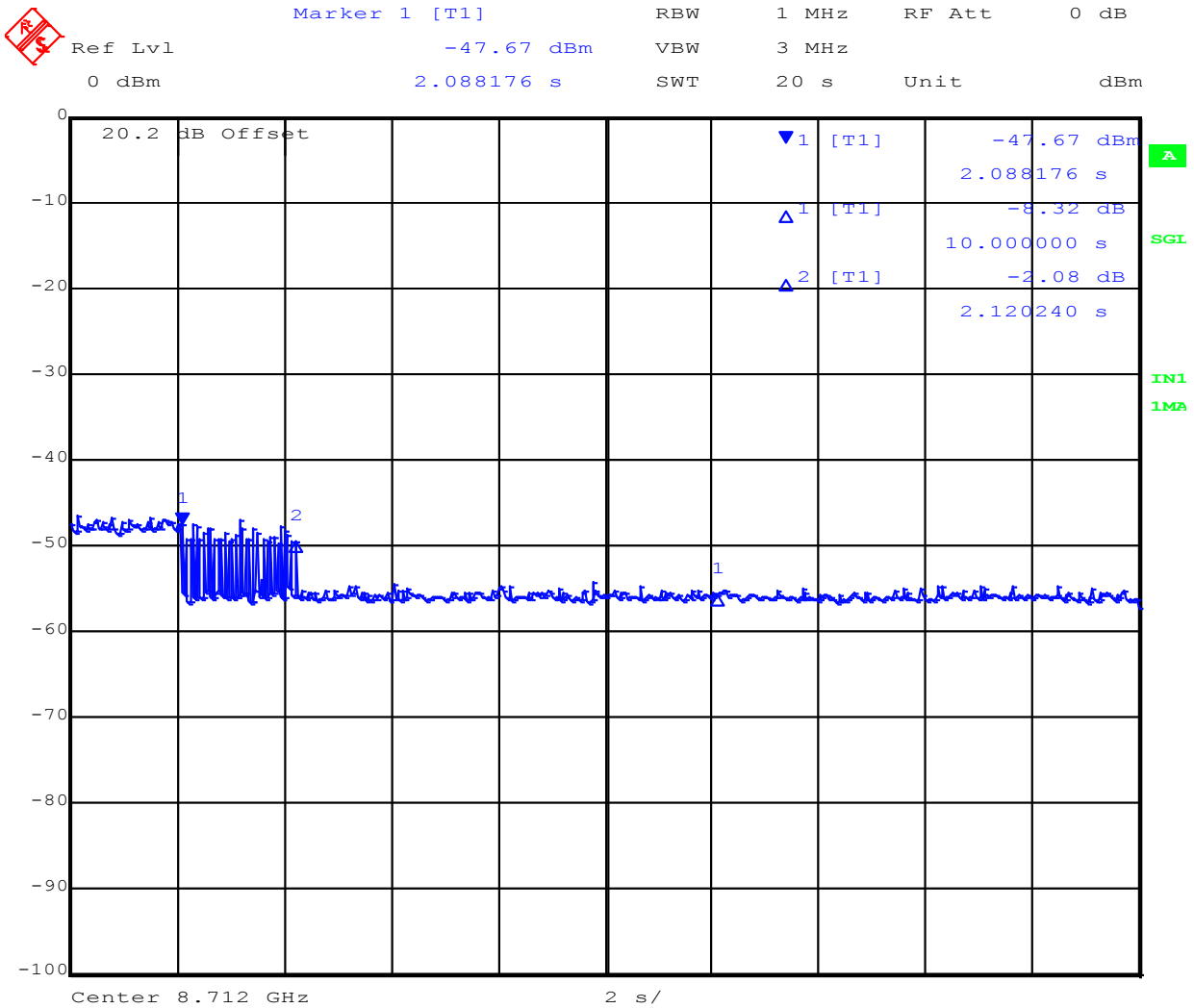
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 8478.479 MHz : -36.858 dBm	Channel Frequency: 8712.00 MHz

back to matrix

A.3. Shutoff Timing Requirements

Shutoff Timing Requirements

Variant: UWB, Channel: 8712.00 MHz, Chain a, Temp: 25, Voltage: 5 Vdc



Date: 7.NOV.2018 15:35:53

Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 0 Trace Mode = CLR/WRITE	M1 : 8712.00 MHz : 2.088 s Delta 1 : 8712.00 MHz : -10 s Delta 2 : 8712.00 MHz : 2.120 s	Channel Frequency: 8712.00 MHz

back to matrix

B. APPENDIX – Manufacturer Declaration on Similarity of Models

alereon

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To whom it may concern,

The AL5934 Combat, AL5930 Commander and the AL5955 Camouflage all use the exact same Alereon radio chipset (AL5100 and AL5350). The only difference between the boards is the interface connector, so for the conducted tests, testing just the AL5934 Combat should be adequate.

Thanks,

David Shoemaker
CEO
Alereon, Inc.

12/6/2018

12/6/2018 CONFIDENTIAL 1 of 1

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