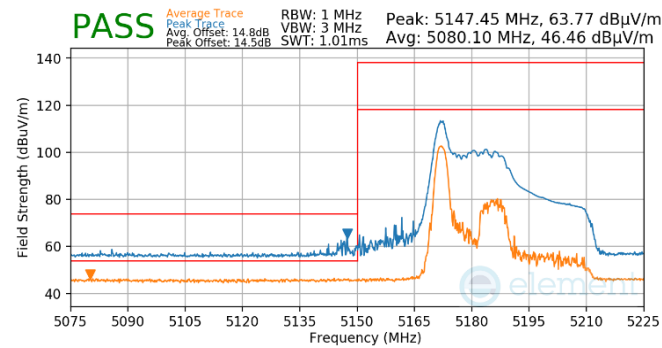


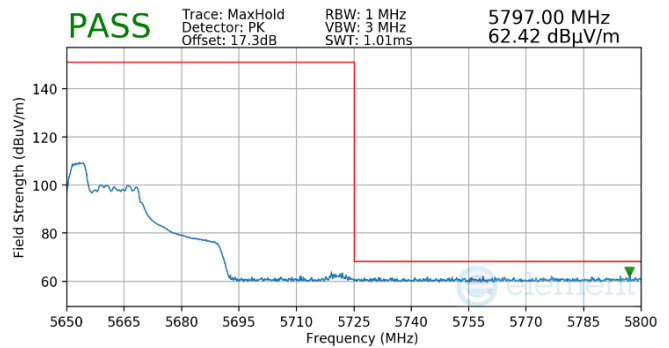
7.6.10 Antenna WF4a Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

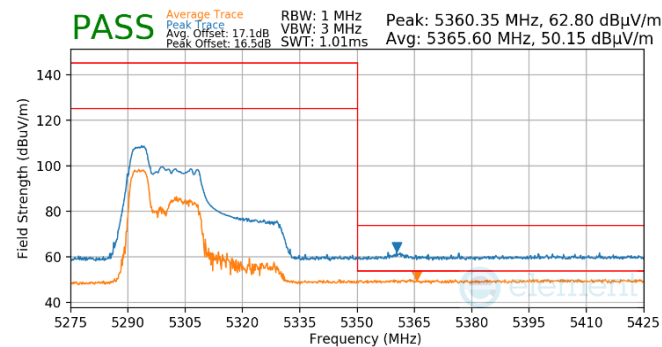
RU26/RU52



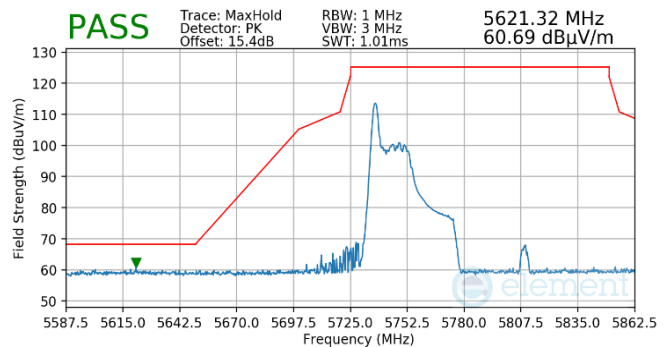
Plot 7-559. Antenna WF4a (Pk & Avg, RU26, Index 0, Ch.38, MCS11)



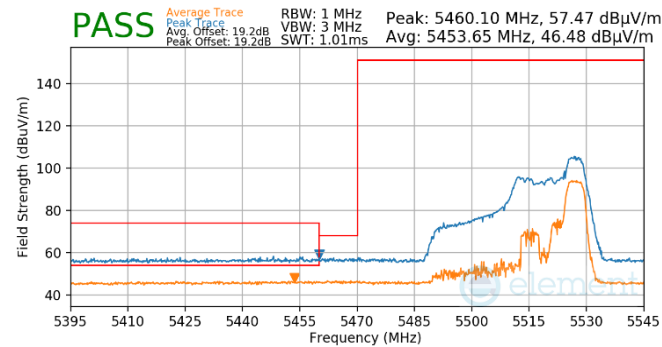
Plot 7-562. Antenna WF4a (Pk, RU52, Index 37, Ch.134, MCS11)



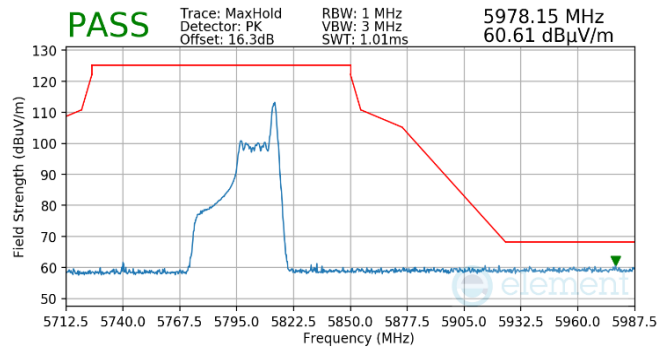
Plot 7-560. Antenna WF4a (Pk & Avg, RU52, Index 37, Ch.62, MCS11)



Plot 7-563. Antenna WF4a (Pk, RU26, Index 0, Ch.151, MCS11)



Plot 7-561. Antenna WF4a (Pk & Avg, RU52, Index 37, Ch.102, MCS11)



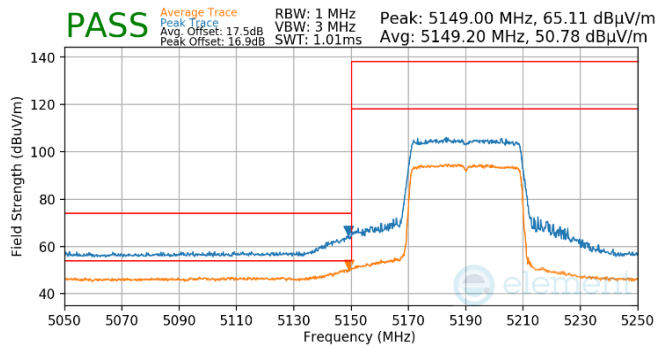
Plot 7-564. Antenna WF4a (Pk, RU26, Index 17, Ch.159, MCS11)

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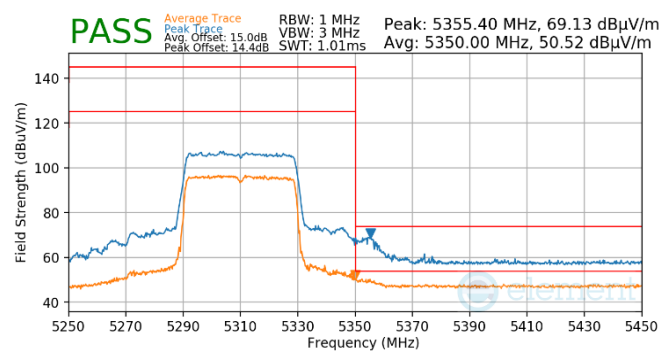
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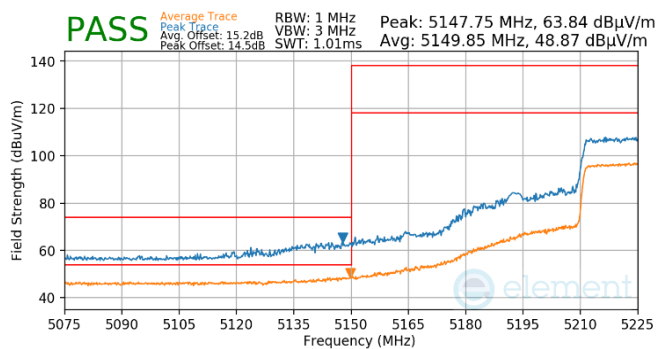
RU484



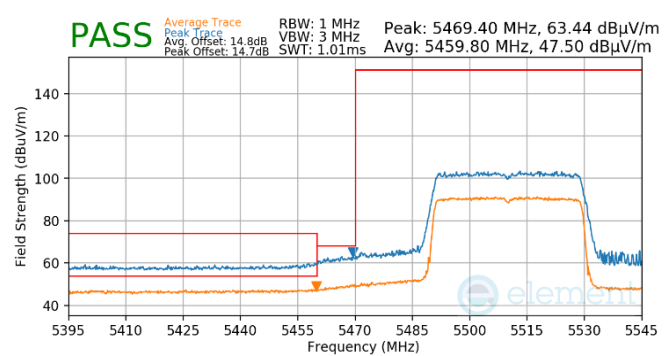
Plot 7-565. Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.38, MCS11)



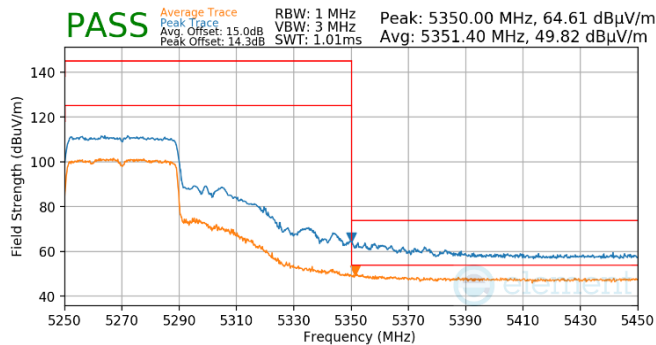
Plot 7-568. Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.62, MCS11)



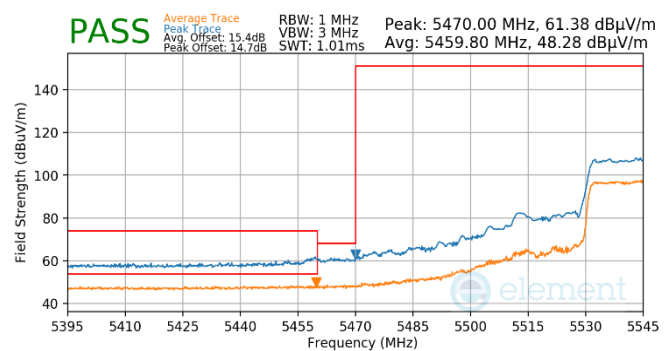
Plot 7-566. Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.46, MCS11)



Plot 7-569. Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.102, MCS11)



Plot 7-567. Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.54, MCS11)

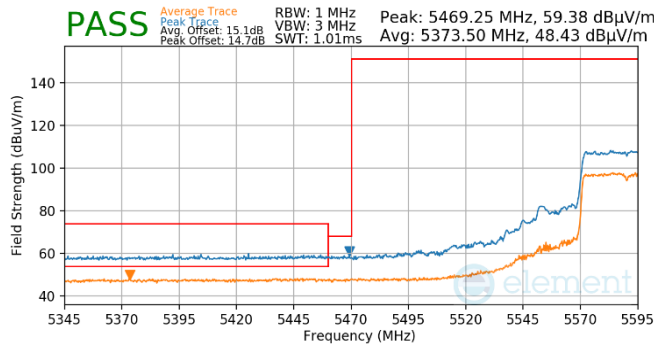


Plot 7-570. Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.110, MCS11)

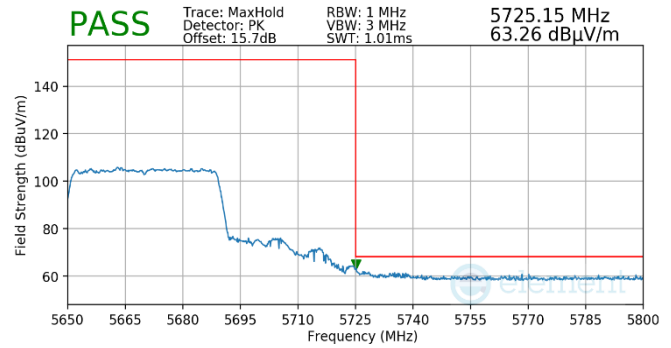
FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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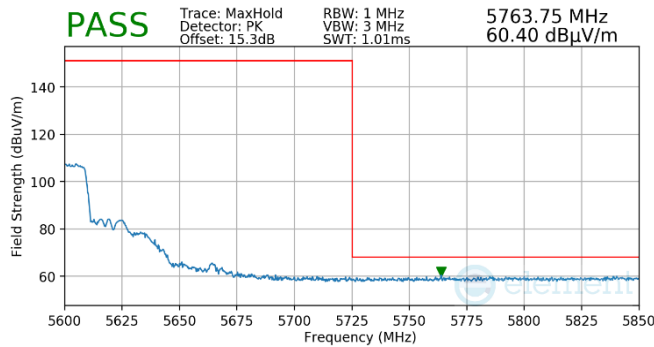
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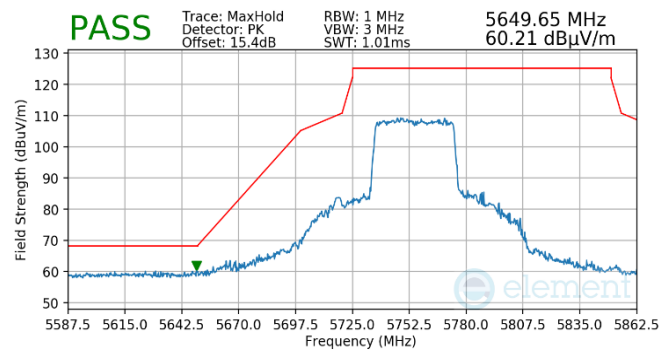
Plot 7-571. (FCC Only) Antenna WF4a (Pk & Avg, RU484, Index 65, Ch.118, MCS11)



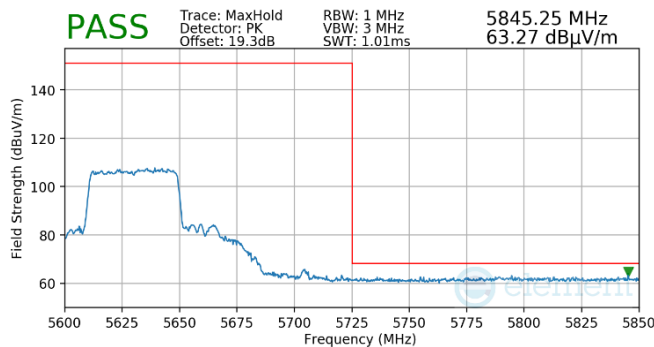
Plot 7-574. Antenna WF4a (Pk, RU484, Index 65, Ch.134, MCS11)



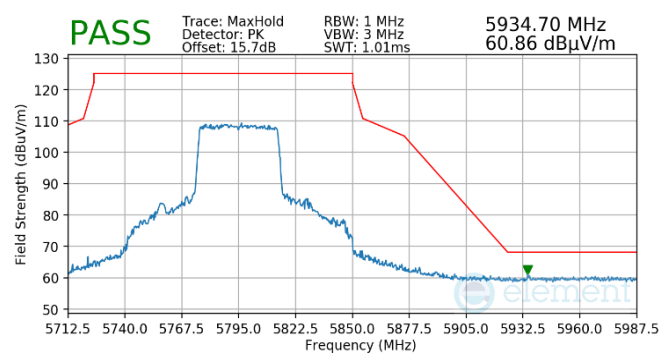
Plot 7-572. (FCC Only) Antenna WF4a (Pk, RU484, Index 65, Ch.118, MCS11)



Plot 7-575. Antenna WF4a (Pk, RU484, Index 65, Ch.151, MCS11)



Plot 7-573. (FCC Only) Antenna WF4a (Pk, RU484, Index 65, Ch.126, MCS11)



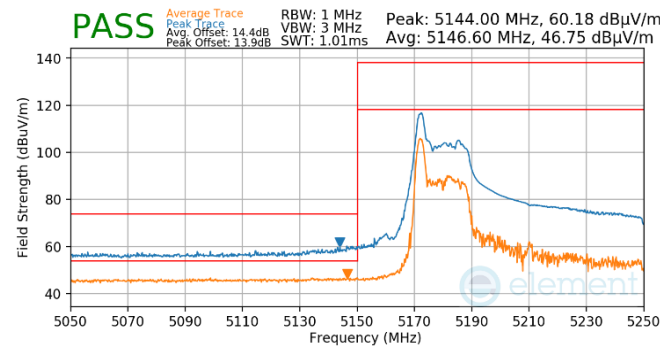
Plot 7-576. Antenna WF4a (Pk, RU484, Index 65, Ch.159, MCS11)

FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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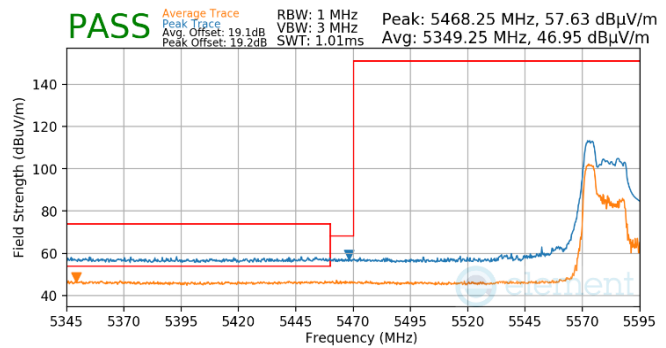
7.6.11 Antenna WF4a Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

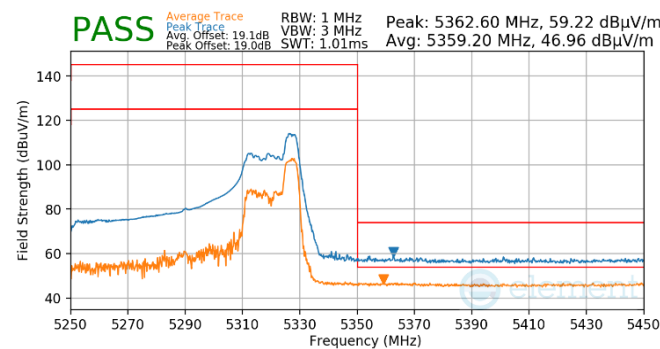
RU26/RU52



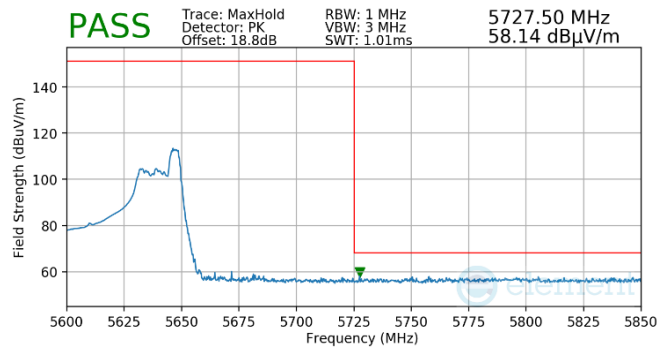
Plot 7-577. Antenna WF4a (Pk & Avg, RU26, Index 0, Ch.42, MCS11)



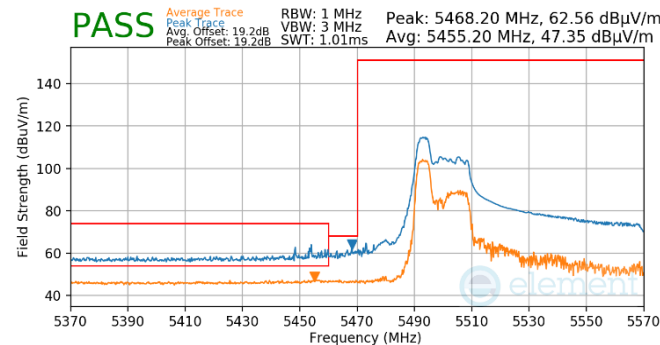
Plot 7-580. (FCC Only) Antenna WF4a (Pk & Avg, RU52, Index 37, Ch.122, MCS11)



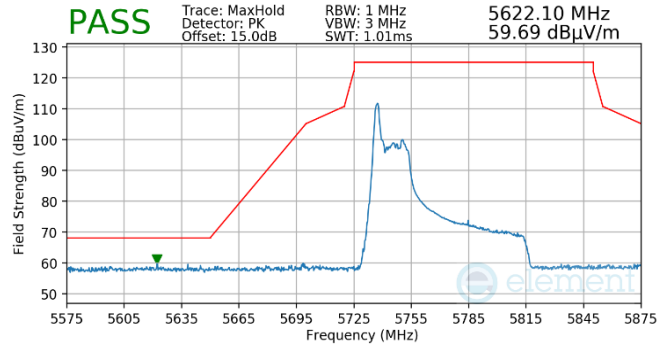
Plot 7-578. Antenna WF4a (Pk & Avg, RU52, Index 52, Ch.58, MCS11)



Plot 7-581. (FCC Only) Antenna WF4a (Pk, RU52, Index 52, Ch.122, MCS11)



Plot 7-579. Antenna WF4a (Pk & Avg, RU52, Index 37, Ch.106, MCS11)

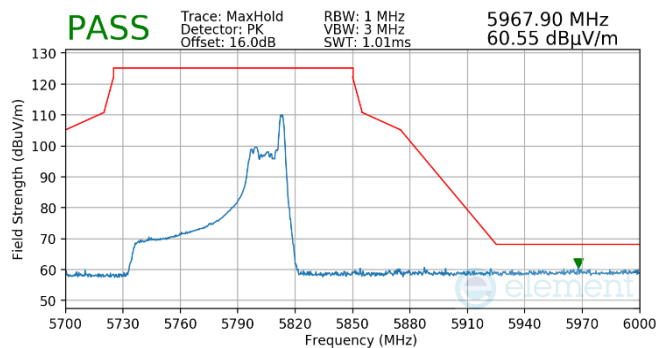


Plot 7-582. Antenna WF4a (Pk, RU26, Index 0, Ch.155, MCS11)

FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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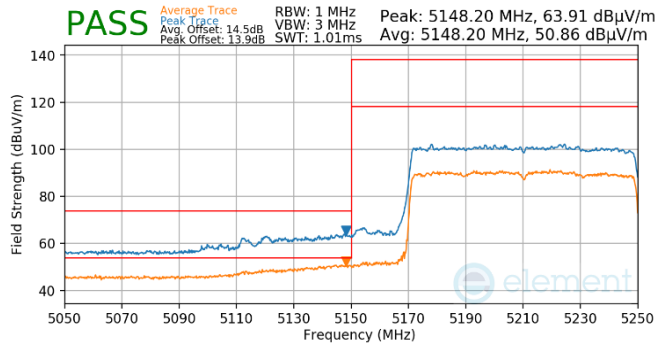


Plot 7-583. Antenna WF4a (Pk, RU26, Index 36, Ch.155, MCS11)

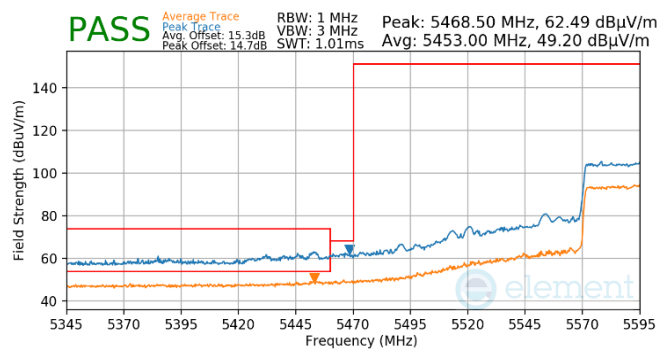
FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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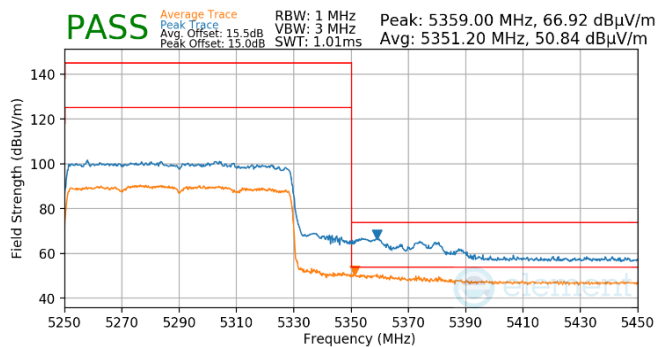
RU996



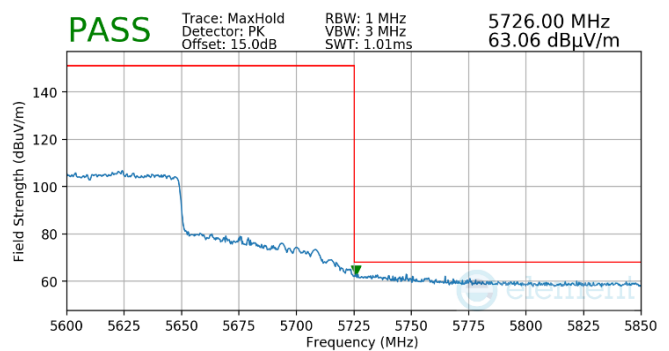
Plot 7-584. Antenna WF4a (Pk & Avg, RU996, Index 67, Ch.42, MCS11)



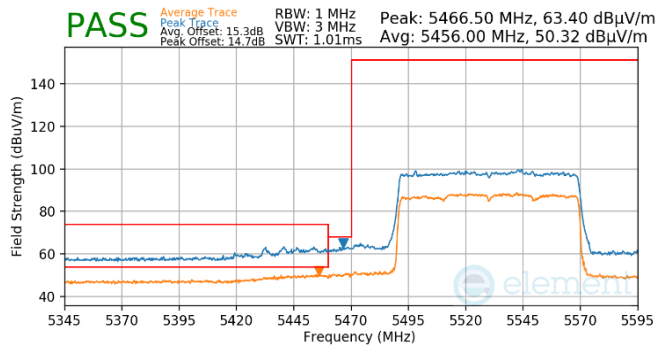
Plot 7-587. (FCC Only) Antenna WF4a (Pk & Avg, RU996, Index 67, Ch.122, MCS11)



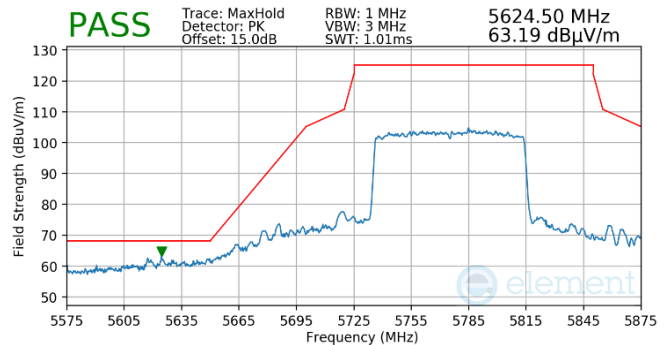
Plot 7-585. Antenna WF4a (Pk & Avg, RU996, Index 67, Ch.58, MCS11)



Plot 7-588. (FCC Only) Antenna WF4a (Pk, RU996, Index 67, Ch.122, MCS11)



Plot 7-586. Antenna WF4a (Pk & Avg, RU996, Index 67, Ch.106, MCS11)

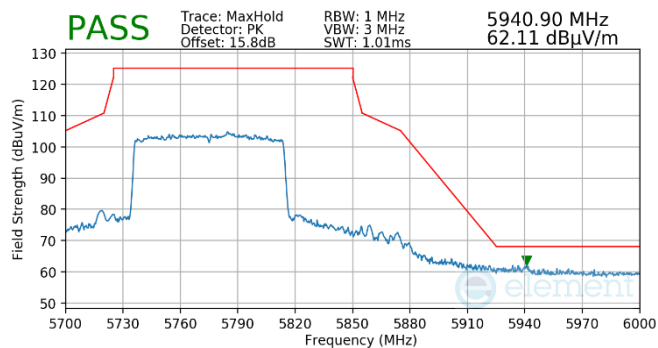


Plot 7-589. Antenna WF4a (Pk, RU996, Index 67, Ch.155, MCS11)

FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-590. Antenna WF4a (Pk, RU996, Index 67, Ch.155, MCS11)

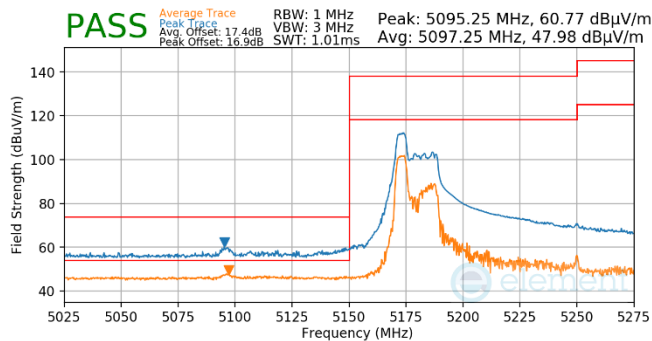
FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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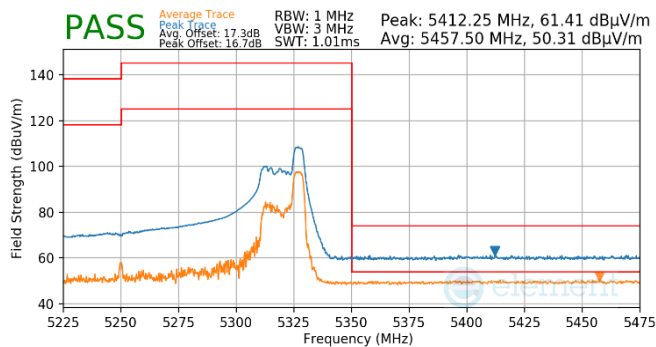
7.6.12 Antenna WF4a Radiated Band Edge Measurement (160MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

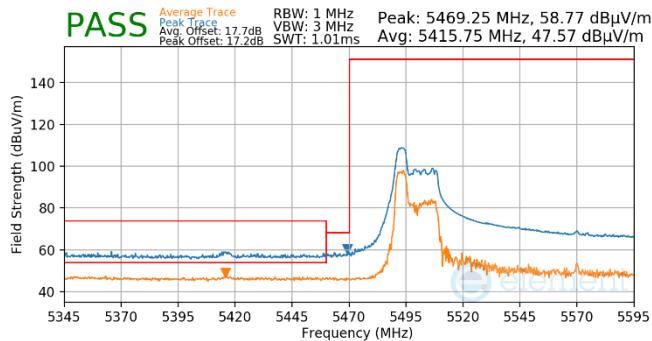
RU52



Plot 7-591. Antenna WF4a (Pk & Avg, RU52, Index 37, Ch.50, MCS11)



Plot 7-592. Antenna WF4a (Pk & Avg, RU52, Index 52, Ch.50, MCS11)

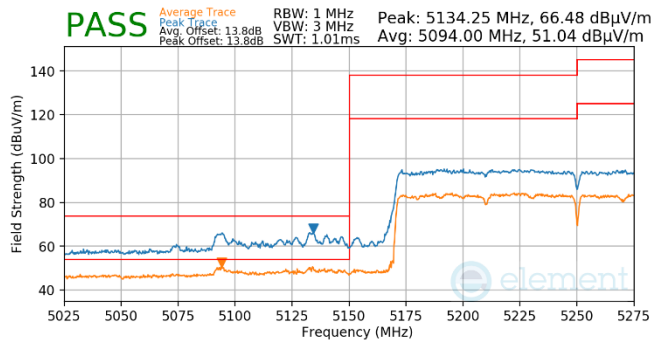


Plot 7-593. (FCC Only) Antenna WF4a (Pk & Avg, RU52, Index 37, Ch.114, MCS11)

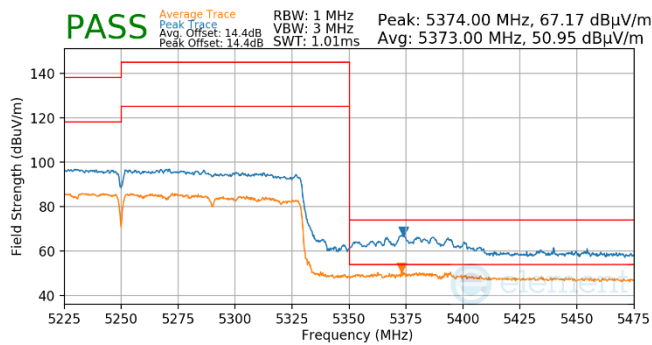
FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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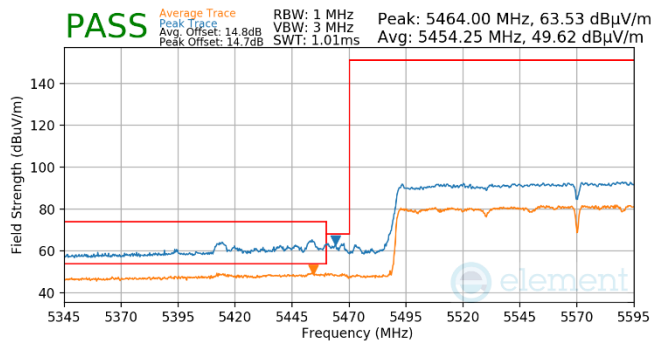
RU996x2



Plot 7-594. Antenna WF4a (Pk & Avg, RU996x2, Index 68, Ch.50, MCS11)



Plot 7-595. Antenna WF4a (Pk & Avg, RU996, Index 68, Ch.50, MCS11)



Plot 7-596. (FCC Only) Antenna WF4a (Pk & Avg, RU996x2, Index 68, Ch.114, MCS11)

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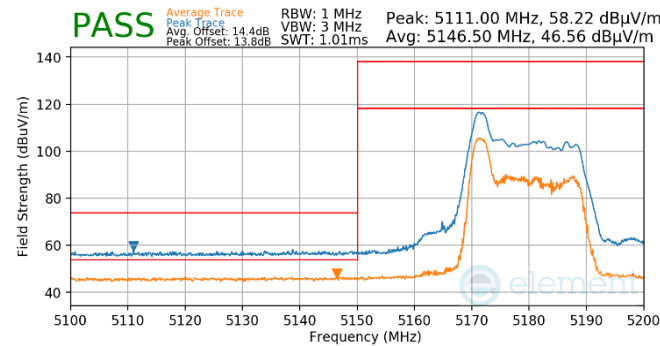
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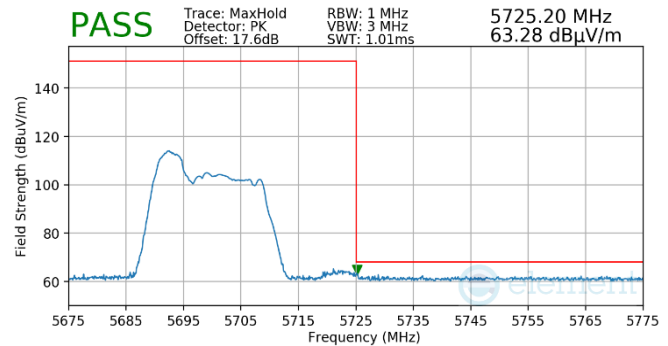
7.6.13 CDD Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

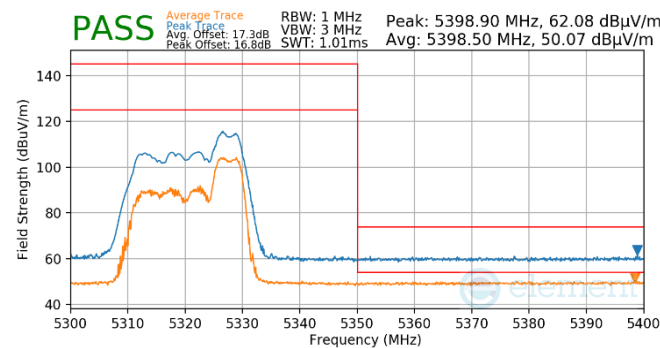
RU26/52



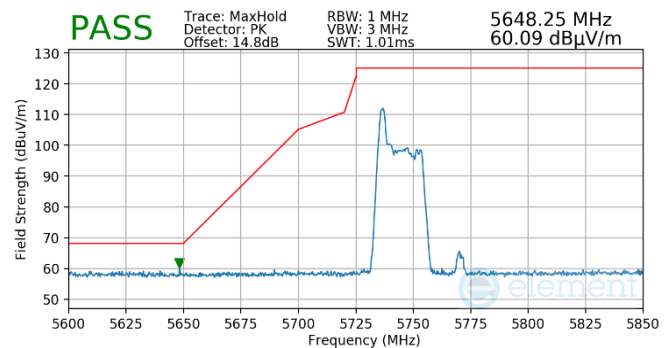
Plot 7-597. CDD (Pk & Avg, RU26, Index 0, Ch.36, MCS11)



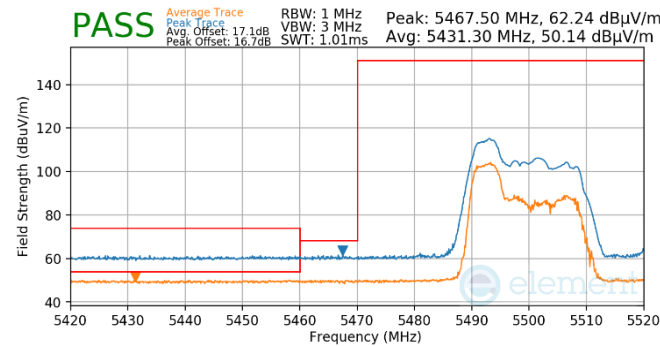
Plot 7-600. CDD (Pk, RU52, Index 37, Ch.140, MCS11)



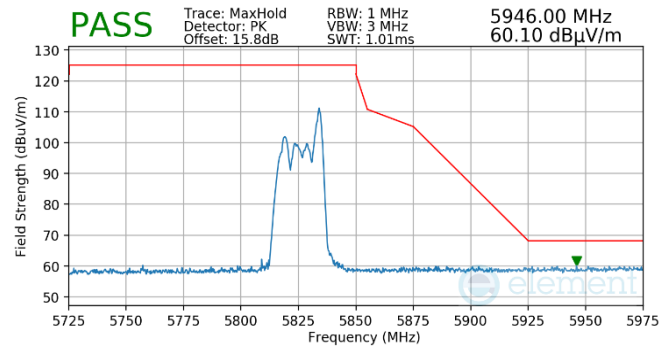
Plot 7-598. CDD (Pk & Avg, RU52, Index 40, Ch.64, MCS11)



Plot 7-601. CDD (Pk, RU26, Index 0, Ch.149, MCS11)



Plot 7-599. CDD (Pk & Avg, RU52, Index 37, Ch.100, MCS11)



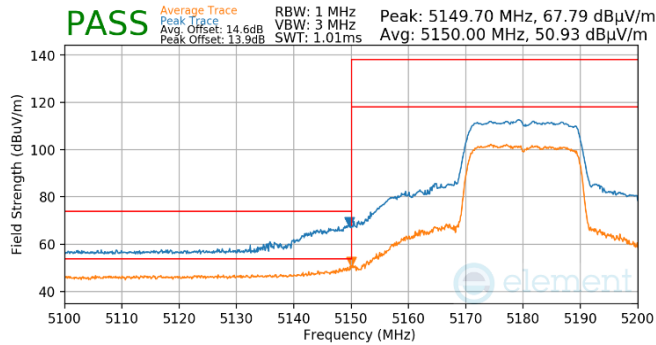
Plot 7-602. CDD (Pk, RU26, Index 8, Ch.165, MCS11)

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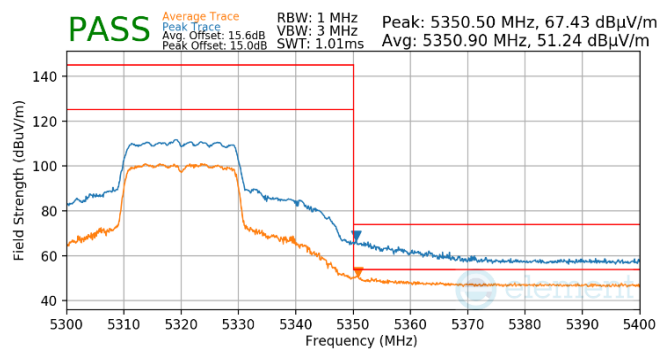
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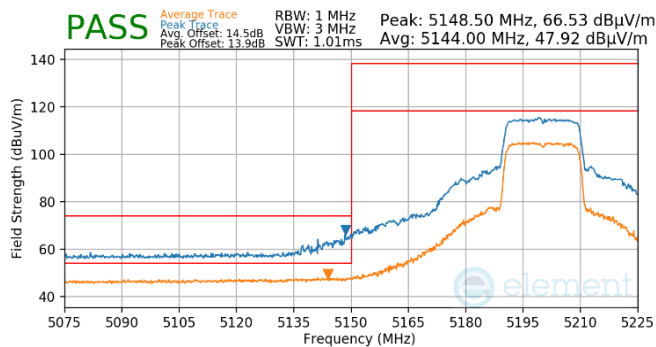
RU242



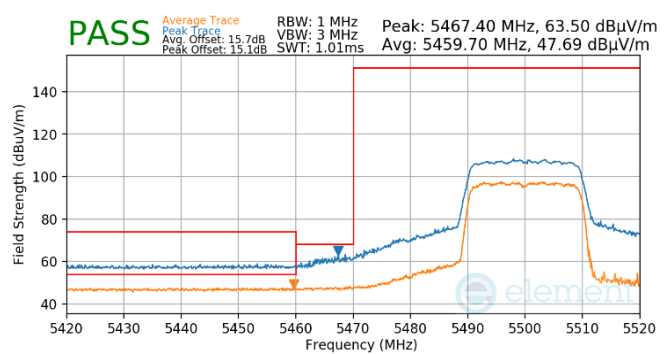
Plot 7-603. CDD (Pk & Avg, RU242, Index 61, Ch.36, MCS11)



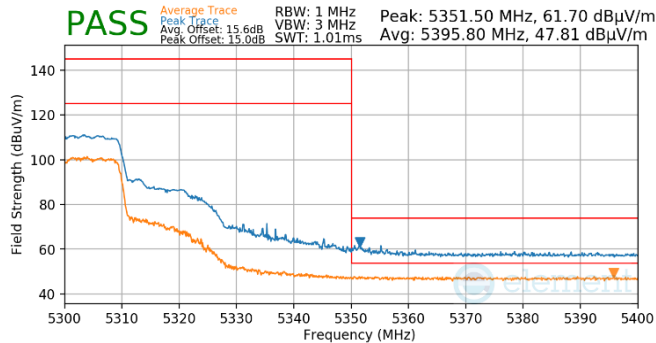
Plot 7-606. CDD (Pk & Avg, RU242, Index 61, Ch.64, MCS11)



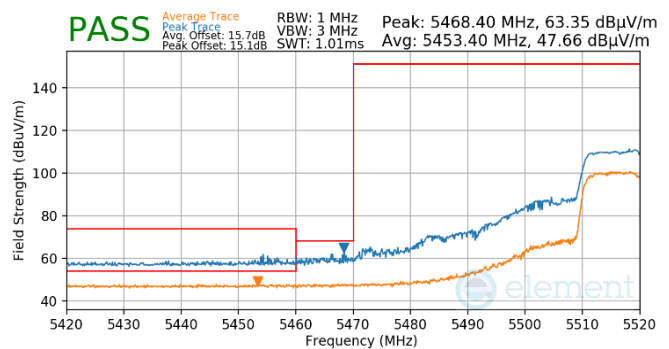
Plot 7-604. CDD (Pk & Avg, RU242, Index 61, Ch.40, MCS11)



Plot 7-607. CDD (Pk & Avg, RU242, Index 61, Ch.100, MCS11)



Plot 7-605. CDD (Pk & Avg, RU242, Index 61, Ch.60, MCS11)

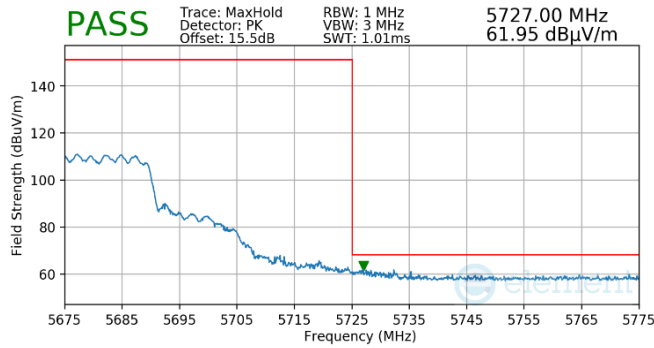


Plot 7-608. CDD (Pk & Avg, RU242, Index 61, Ch.104, MCS11)

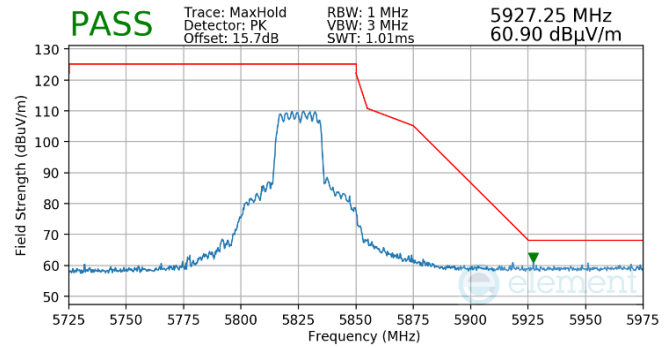
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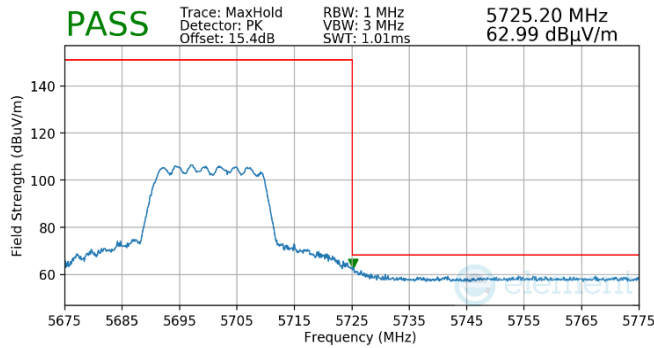
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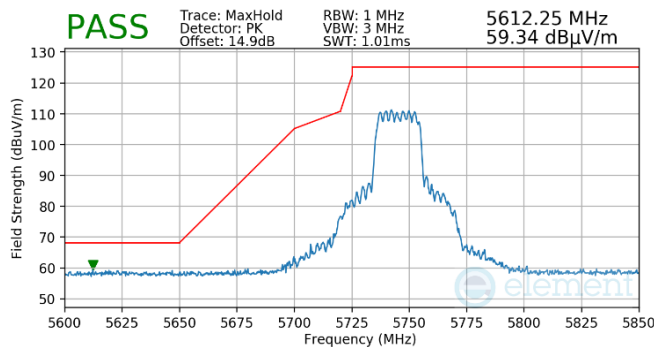
Plot 7-609. CDD (Pk, RU242, Index 61, Ch.136, MCS11)



Plot 7-612. CDD (Pk, RU242, Index 61, Ch.165, MCS11)



Plot 7-610. CDD (Pk, RU242, Index 61, Ch.140, MCS11)



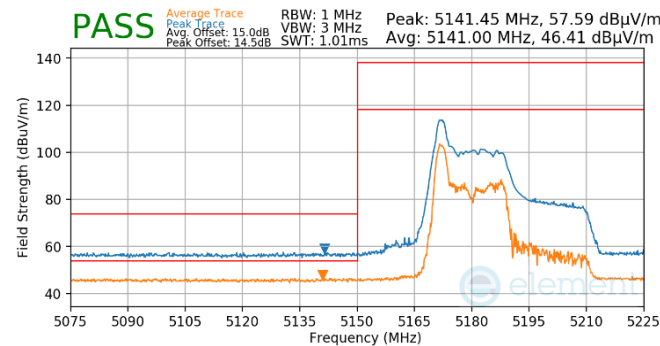
Plot 7-611. CDD (Pk, RU242, Index 61, Ch.149, MCS11)

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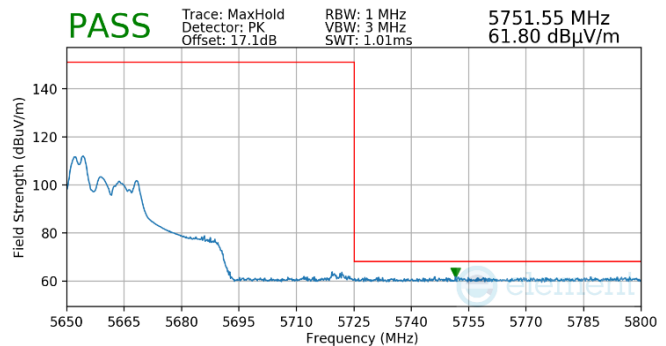
7.6.14 CDD Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

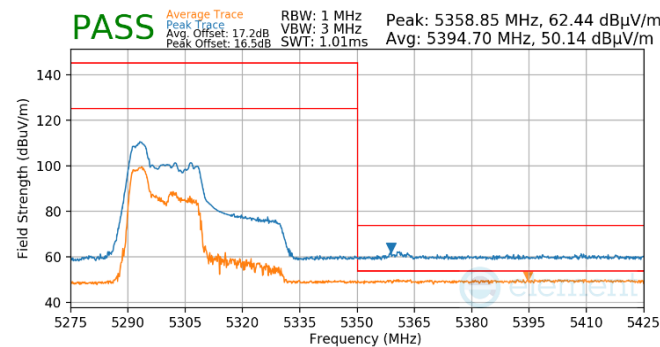
RU26/RU52



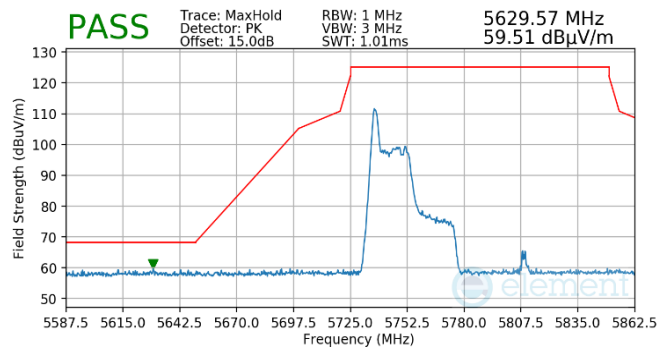
Plot 7-613. CDD (Pk & Avg, RU26, Index 0, Ch.38, MCS11)



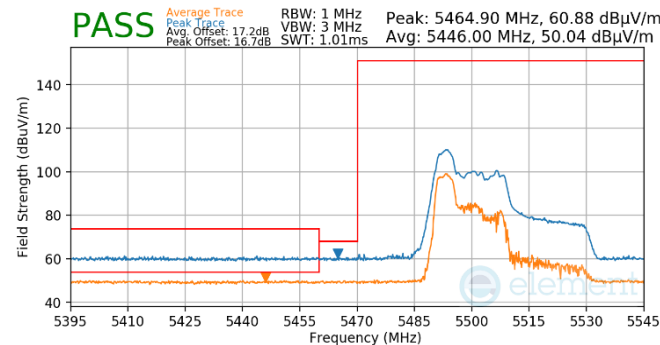
Plot 7-616. CDD (Pk, RU52, Index 37, Ch.134, MCS11)



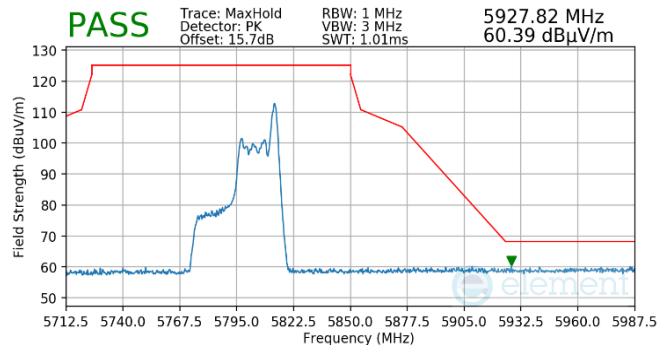
Plot 7-614. CDD (Pk & Avg, RU52, Index 37, Ch.62, MCS11)



Plot 7-617. CDD (Pk, RU26, Index 0, Ch.151, MCS11)



Plot 7-615. CDD (Pk & Avg, RU52, Index 37, Ch.102, MCS11)



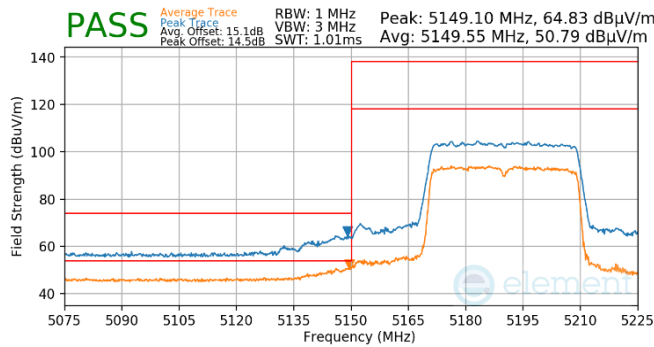
Plot 7-618. CDD (Pk, RU26, Index 17, Ch.159, MCS11)

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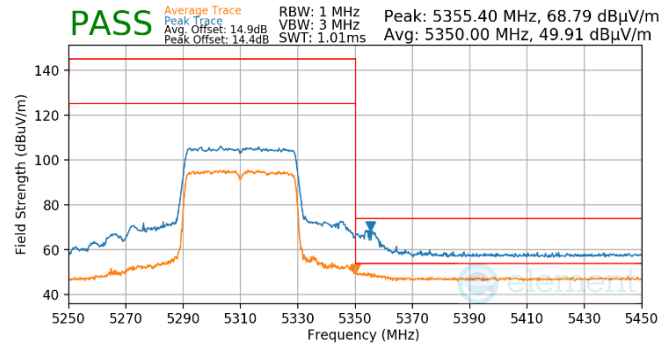
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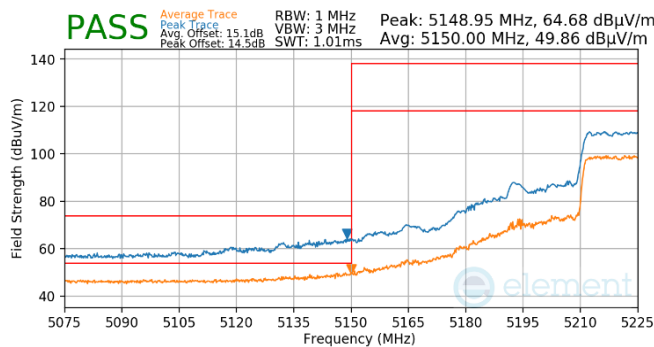
RU484



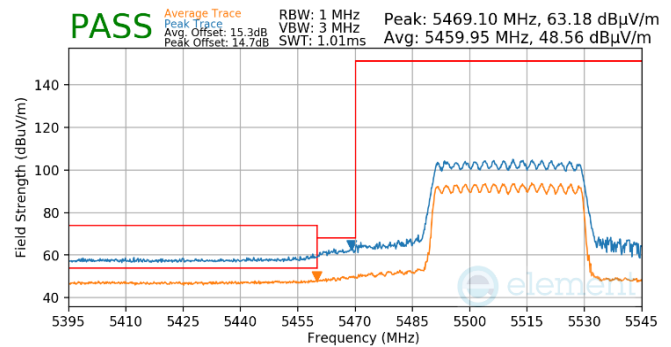
Plot 7-619. CDD (Pk & Avg, RU484, Index 65, Ch.38, MCS11)



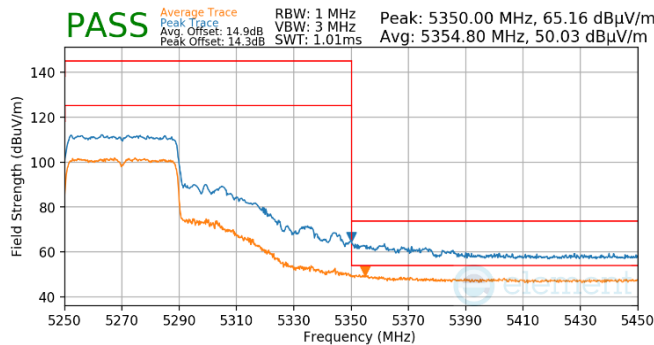
Plot 7-622. CDD (Pk & Avg, RU484, Index 65, Ch.62, MCS11)



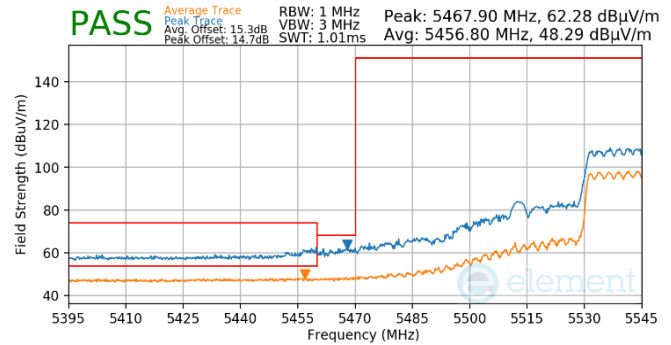
Plot 7-620. CDD (Pk & Avg, RU484, Index 65, Ch.46, MCS11)



Plot 7-623. CDD (Pk & Avg, RU484, Index 65, Ch.102, MCS11)



Plot 7-621. CDD (Pk & Avg, RU484, Index 65, Ch.54, MCS11)

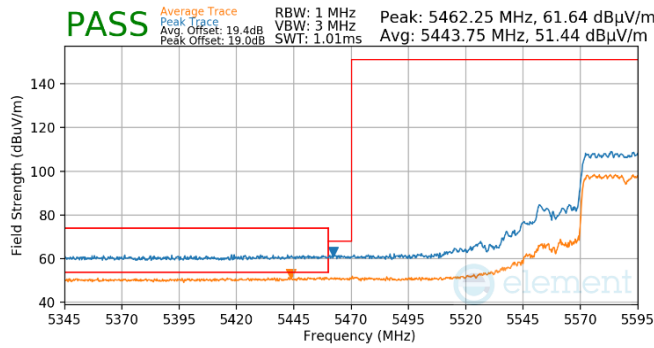


Plot 7-624. CDD (Pk & Avg, RU484, Index 65, Ch.110, MCS11)

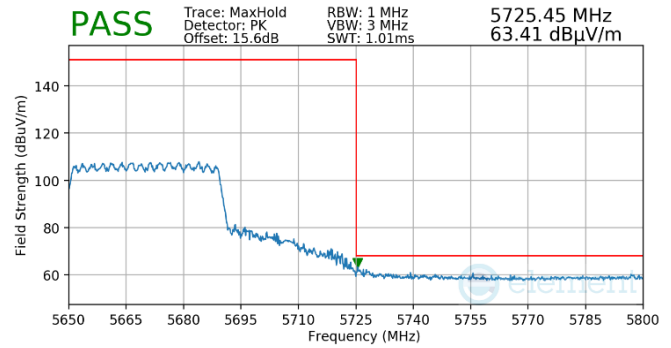
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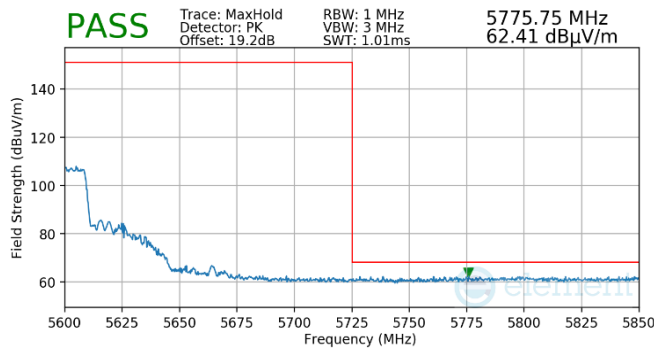
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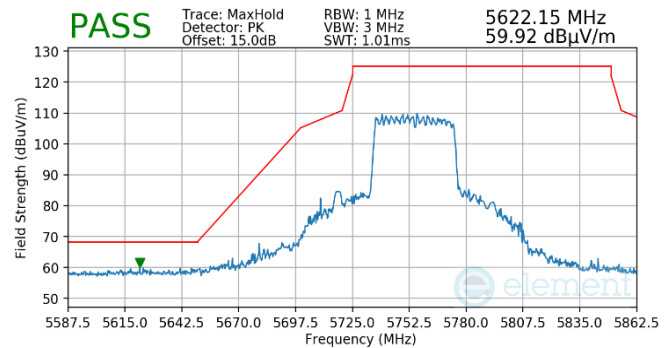
Plot 7-625. (FCC Only) CDD (Pk & Avg, RU484, Index 65, Ch.118, MCS11)



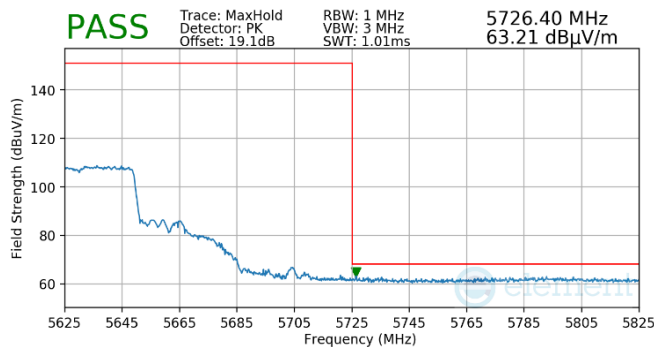
Plot 7-628. CDD (Pk, RU484, Index 65, Ch.134, MCS11)



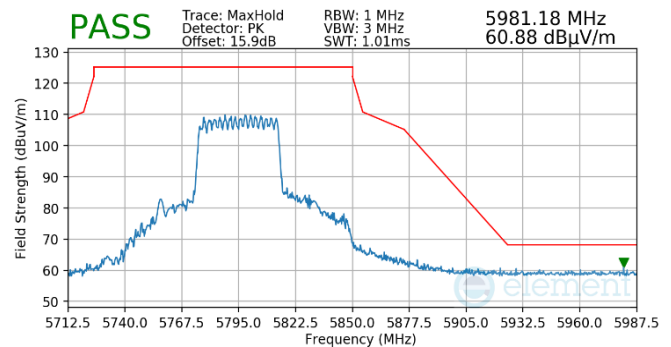
Plot 7-626. (FCC Only) CDD (Pk, RU484, Index 65, Ch.118, MCS11)



Plot 7-629. CDD (Pk, RU484, Index 65, Ch.151, MCS11)



Plot 7-627. (FCC Only) CDD (Pk, RU484, Index 65, Ch.126, MCS11)



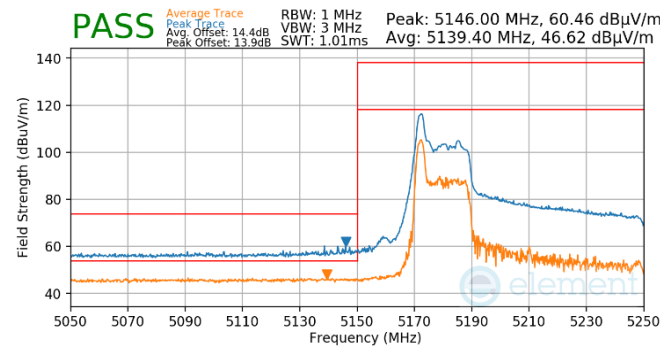
Plot 7-630. CDD (Pk, RU484, Index 65, Ch.159, MCS11)

FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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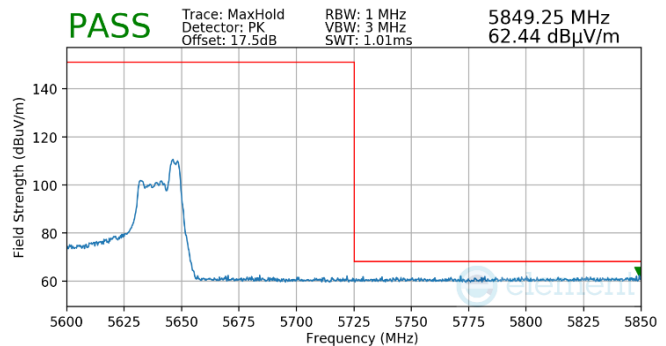
7.6.15 CDD Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

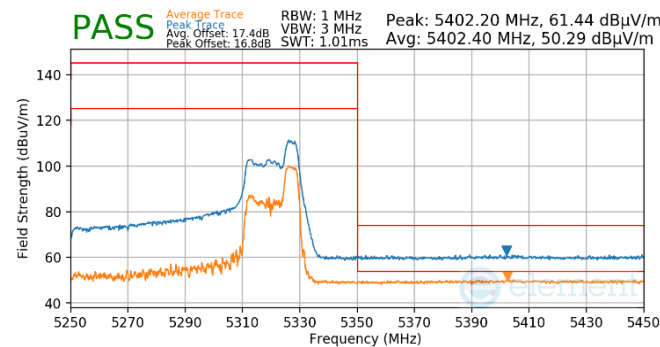
RU26



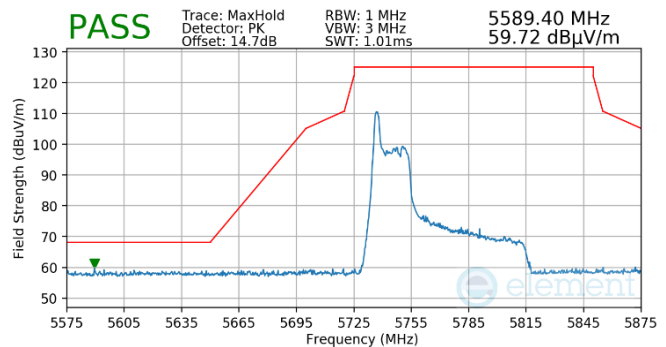
Plot 7-631. CDD (Pk & Avg, RU26, Index 0, Ch.42, MCS11)



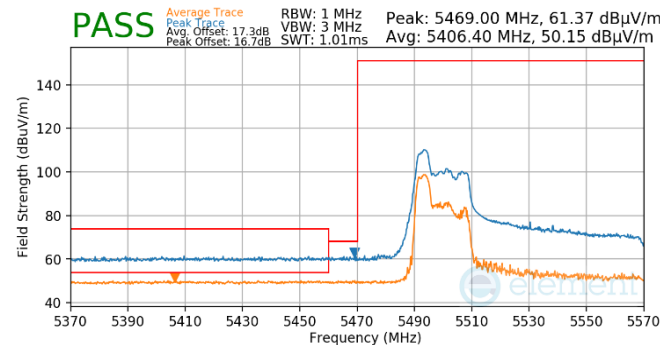
Plot 7-634. (FCC Only) CDD (Pk, RU52, Index 52, Ch.122, MCS11)



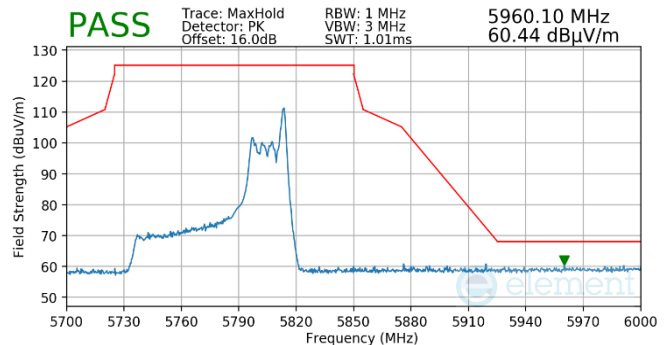
Plot 7-632. CDD (Pk & Avg, RU52, Index 52, Ch.58, MCS11)



Plot 7-635. CDD (Pk, RU26, Index 0, Ch.155, MCS11)



Plot 7-633. CDD (Pk & Avg, RU52, Index 37, Ch.106, MCS11)



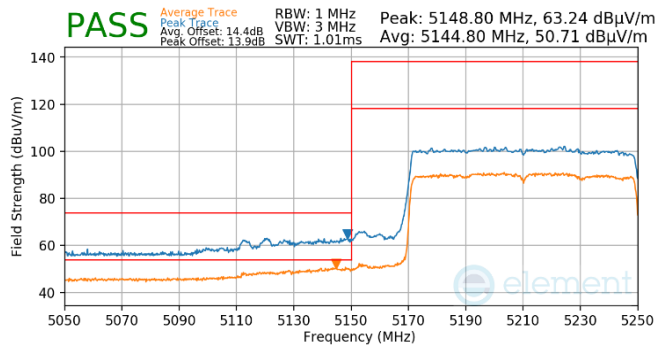
Plot 7-636. CDD (Pk, RU26, Index 36, Ch.155, MCS11)

FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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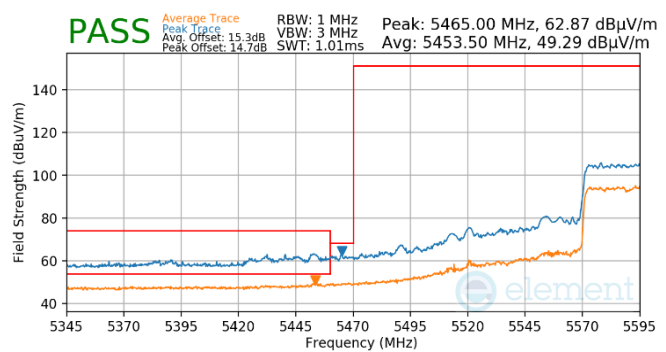
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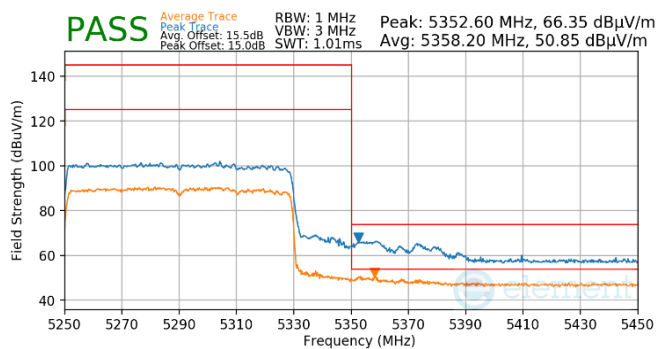
RU996



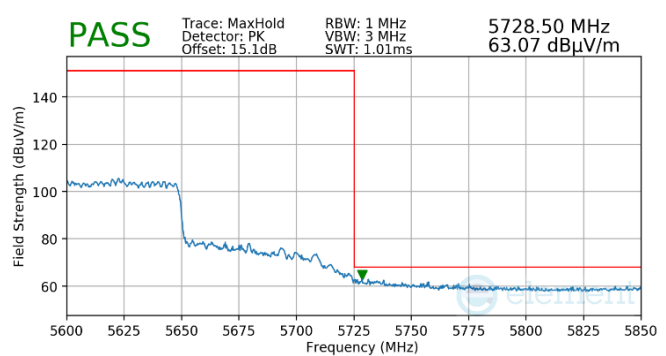
Plot 7-637. CDD (Pk & Avg, RU996, Index 67, Ch.42, MCS11)



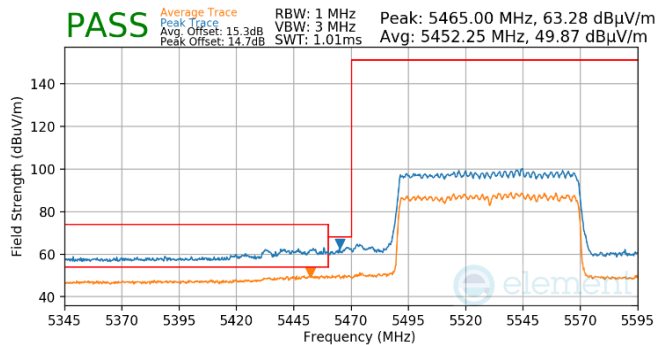
Plot 7-640. (FCC Only) CDD (Pk & Avg, RU996, Index 67, Ch.122, MCS11)



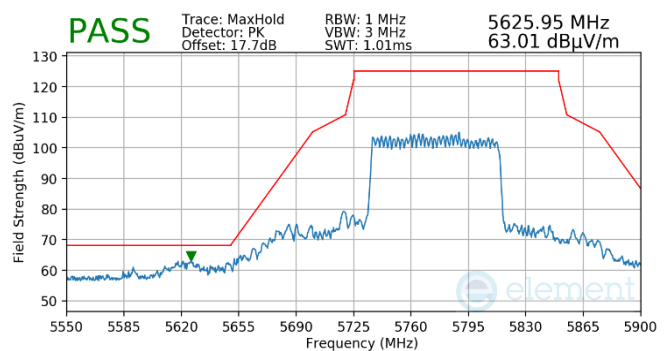
Plot 7-638. CDD (Pk & Avg, RU996, Index 67, Ch.58, MCS11)



Plot 7-641. (FCC Only) CDD (Pk, RU996, Index 67, Ch.122, MCS11)



Plot 7-639. CDD (Pk & Avg, RU996, Index 67, Ch.106, MCS11)

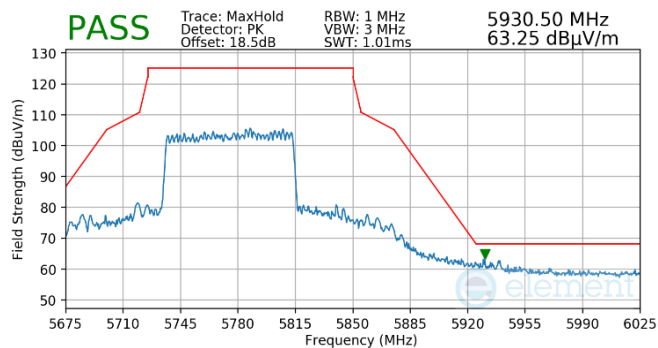


Plot 7-642. CDD (Pk, RU996, Index 67, Ch.155, MCS11)

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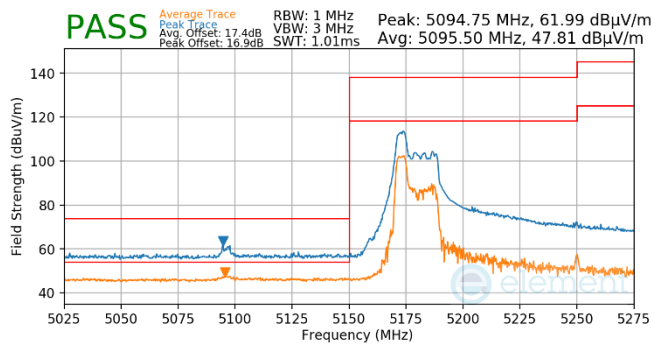
Plot 7-643. CDD (Pk, RU996, Index 67, Ch.155, MCS11)

FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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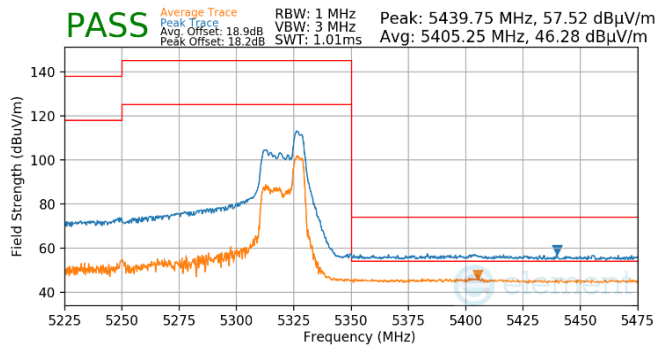
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7.6.16 CDD Radiated Band Edge Measurements (160MHz BW)

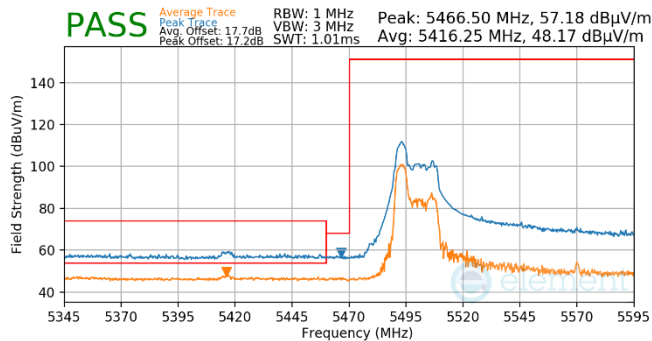
RU52



Plot 7-644. CDD (Pk & Avg, RU52, Index 37, Ch.50, MCS11)



Plot 7-645. CDD (Pk & Avg, RU52, Index 52, Ch.50, MCS11)

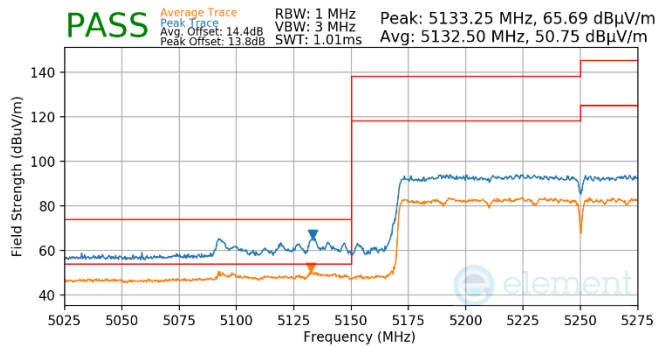


Plot 7-646. (FCC Only) CDD (Pk & Avg, RU52, Index 37, Ch.114, MCS11)

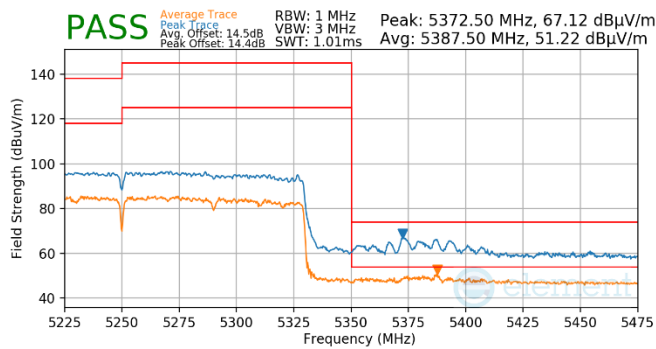
FCC ID: BCG2764 IC: 579C-A2764		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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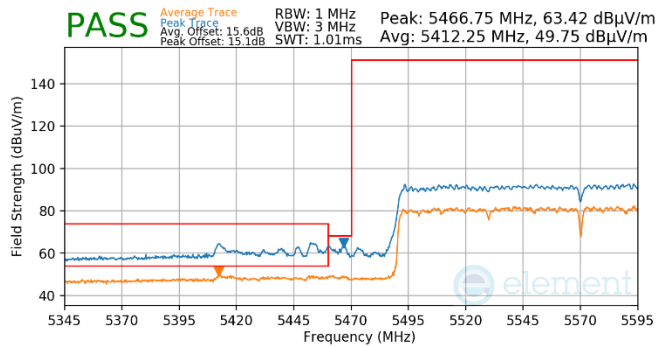
RU996x2



Plot 7-647. CDD (Pk & Avg, RU996x2, Index 68, Ch.50, MCS11)



Plot 7-648. CDD (Pk & Avg, RU996x2, Index 68, Ch.50, MCS11)



Plot 7-649. (FCC Only) CDD (Pk & Avg, RU996x2, Index 68, Ch.114, MCS11)

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7.7 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-191 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-191. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

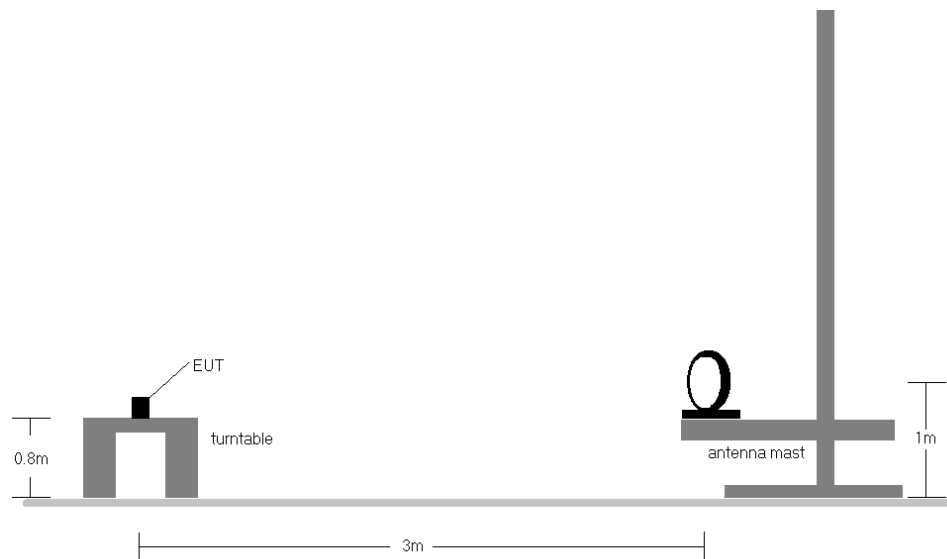


Figure 7-6. Radiated Test Setup < 30MHz

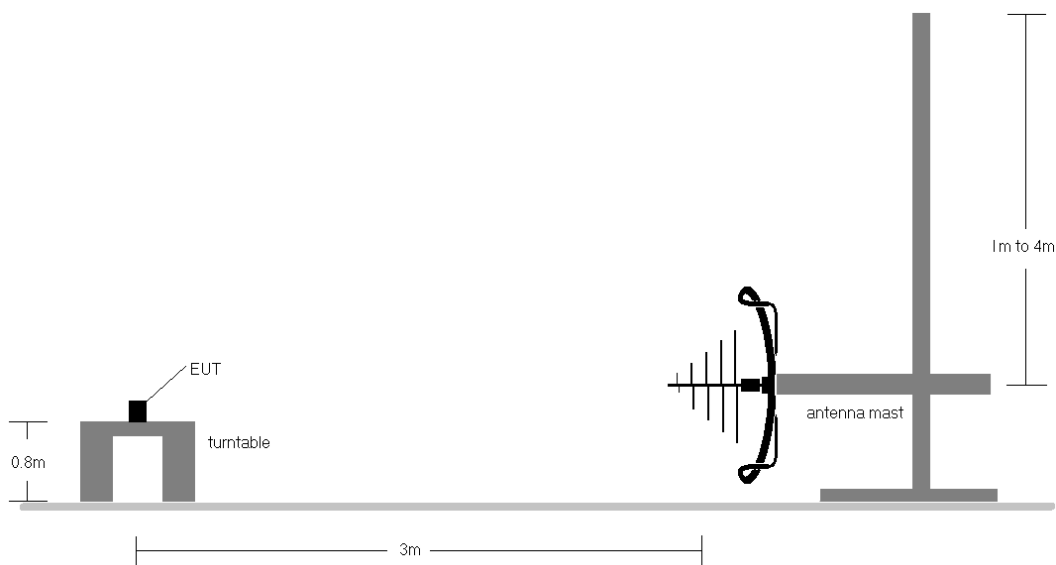


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-191.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All antenna configurations and data rates were investigated and only the worst case are reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

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