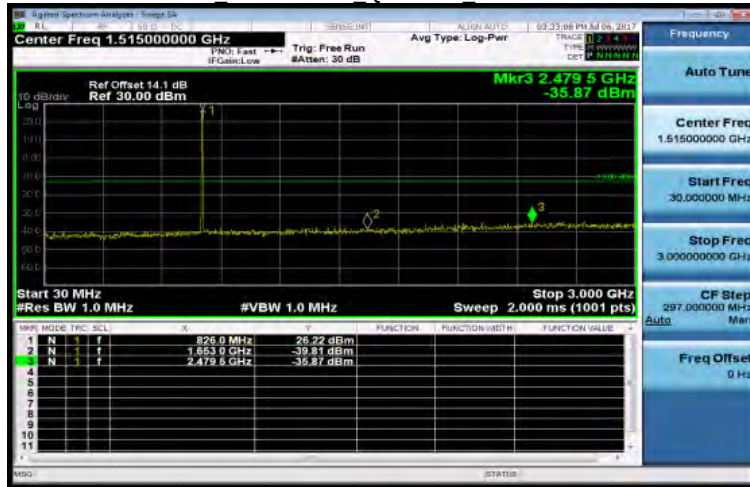
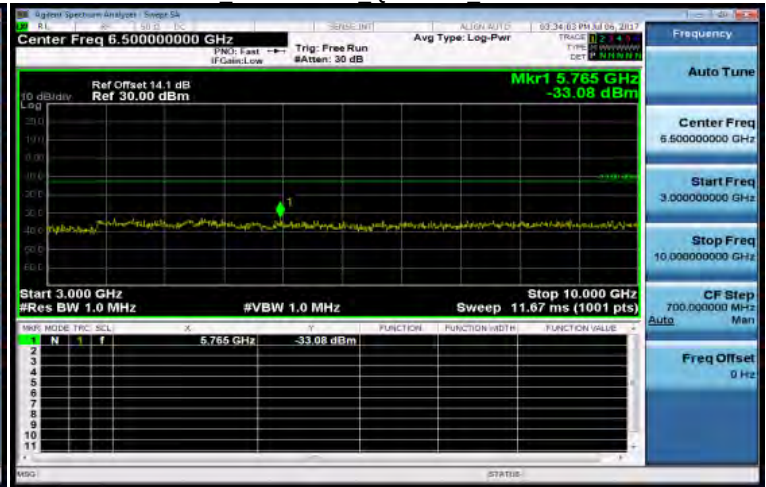


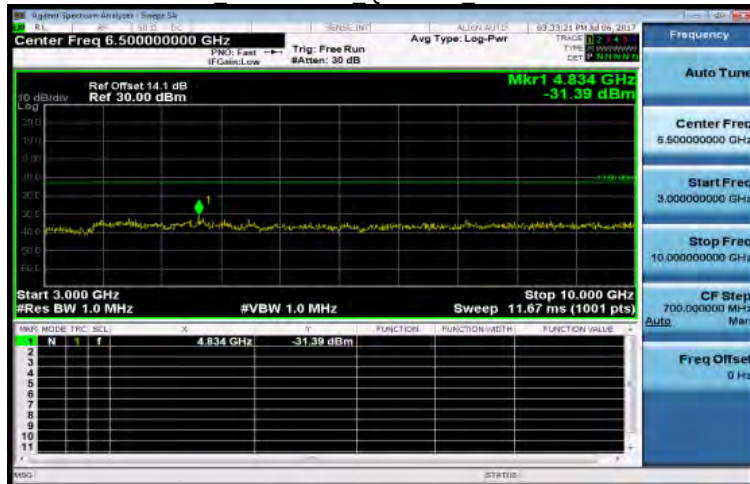
30MHz~3GHz Band5 5MHz QPSK 1.0 LowCH20425-826.5



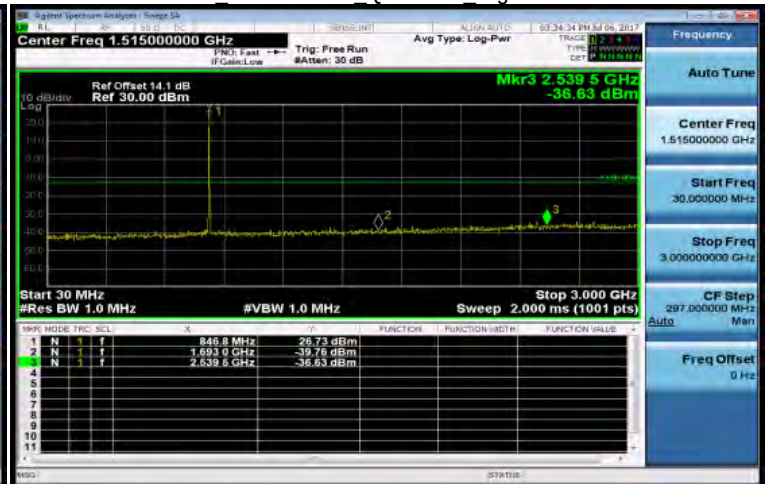
3GHz~10GHz Band5 5MHz QPSK 1.0 MidCH20525-836.5



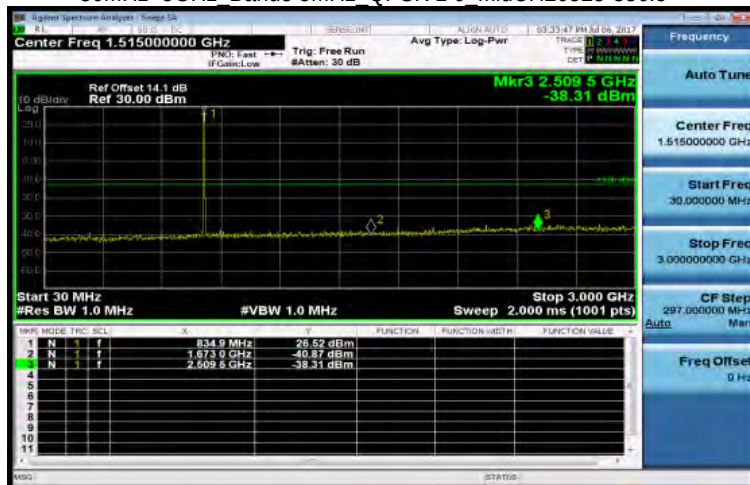
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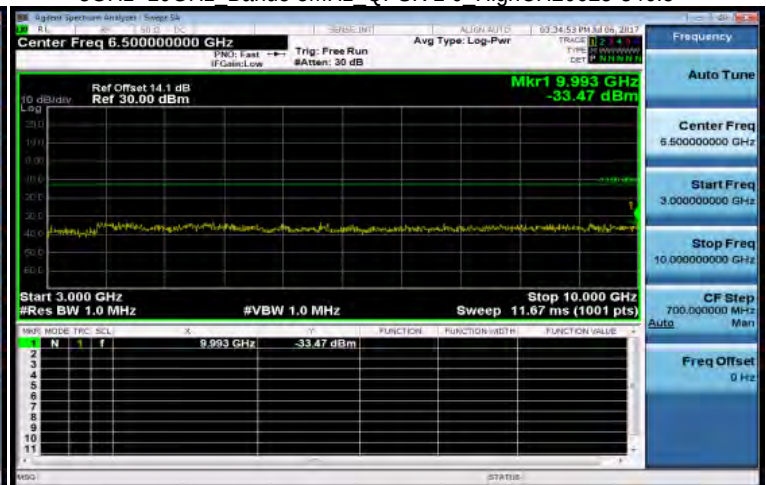
30MHz~3GHz Band5 5MHz QPSK 1.0 HighCH20625-846.5



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3GHz~10GHz Band5 5MHz QPSK 1.0 HighCH20625-846.5

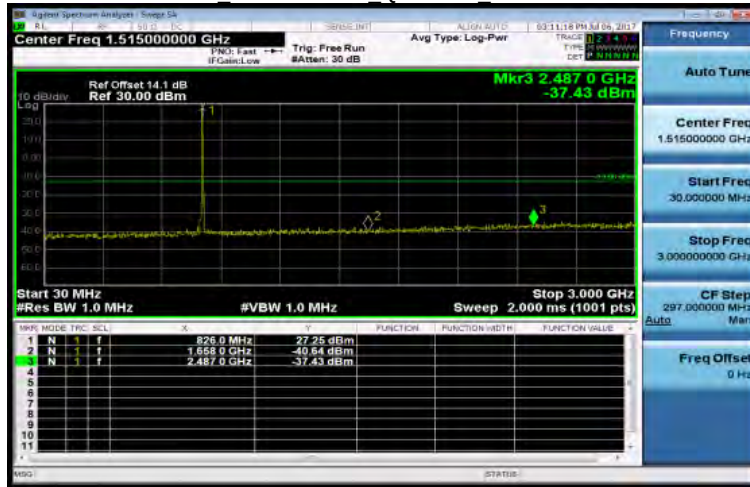


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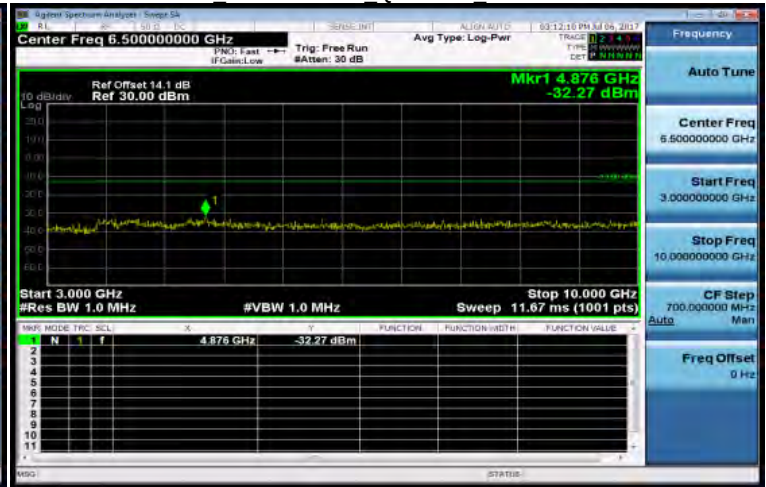
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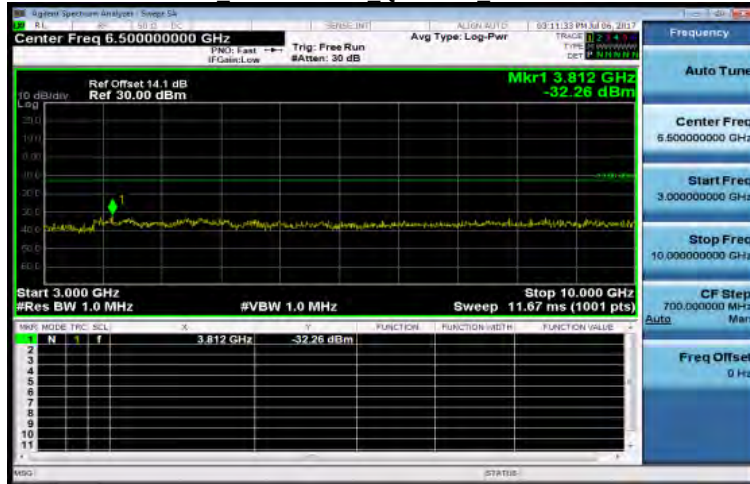
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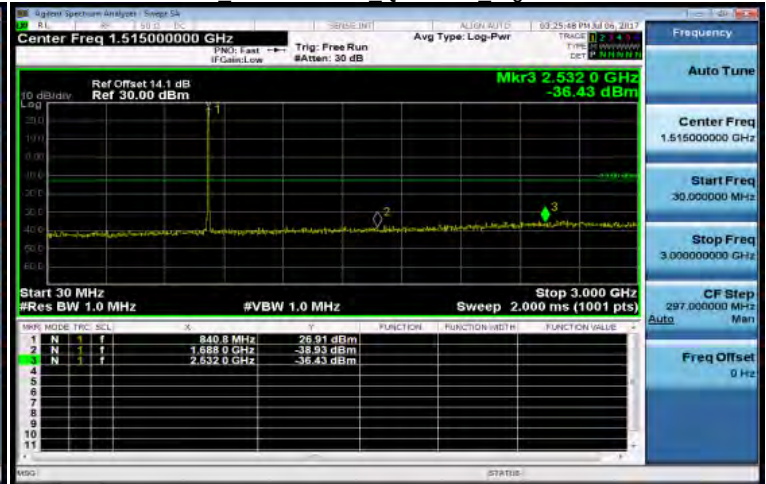
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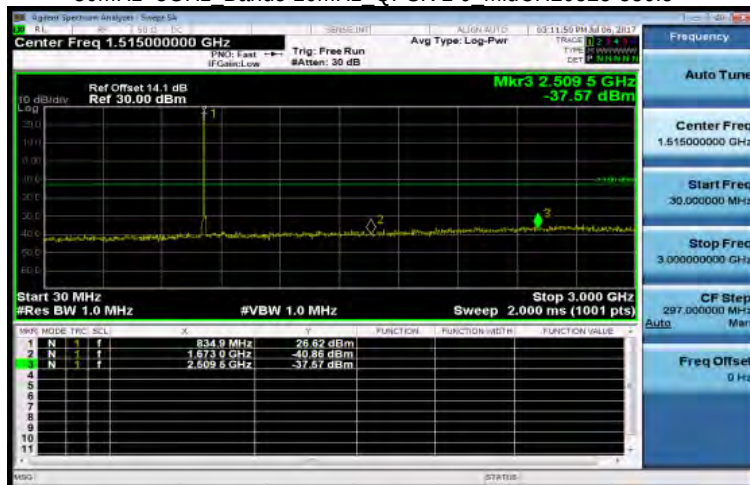
3GHz~10GHz Band5 10MHz QPSK 1 0 LowCH20450-829



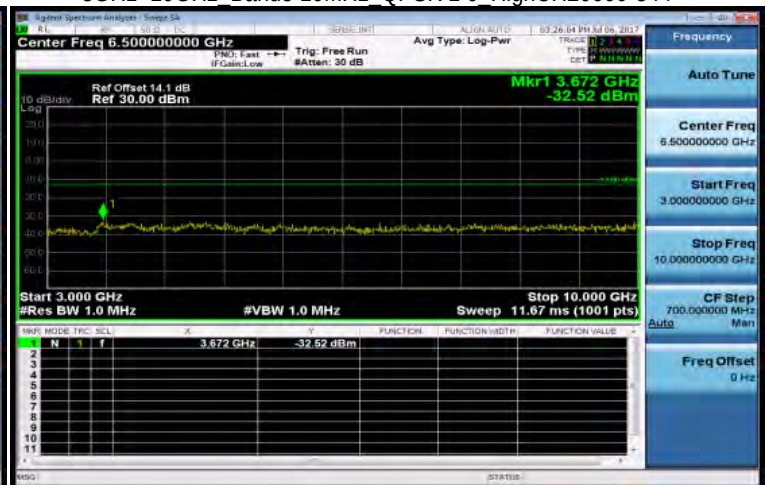
30MHz~3GHz Band5 10MHz QPSK 1 0 HighCH20600-844



30MHz~3GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 10MHz QPSK 1 0 HighCH20600-844



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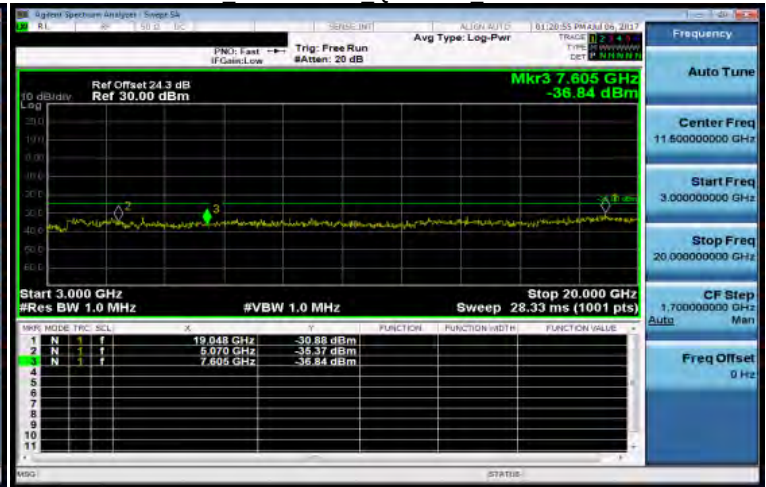
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30MHz~3GHz Band7 5MHz QPSK 1 0 LowCH20775-2502.5



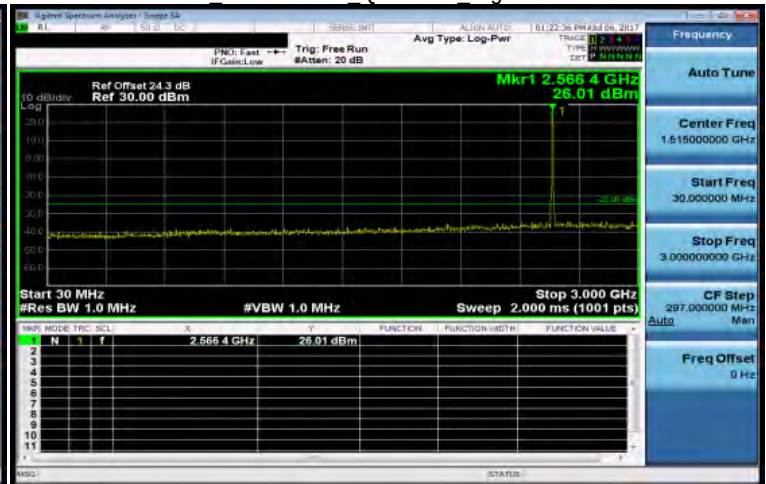
3GHz~10GHz Band7 5MHz QPSK 1 0 MidCH21100-2535



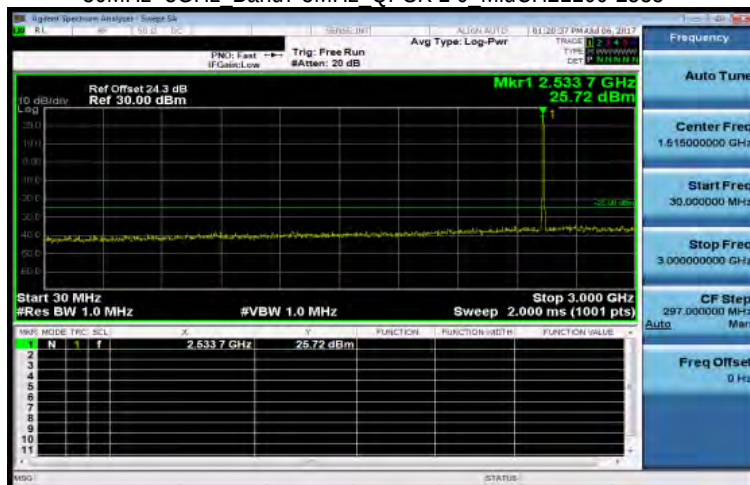
3GHz~10GHz Band7 5MHz QPSK 1 0 LowCH20775-2502.5



30MHz~3GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5



30MHz~3GHz Band7 5MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 5MHz QPSK 1 0 HighCH21425-2567.5

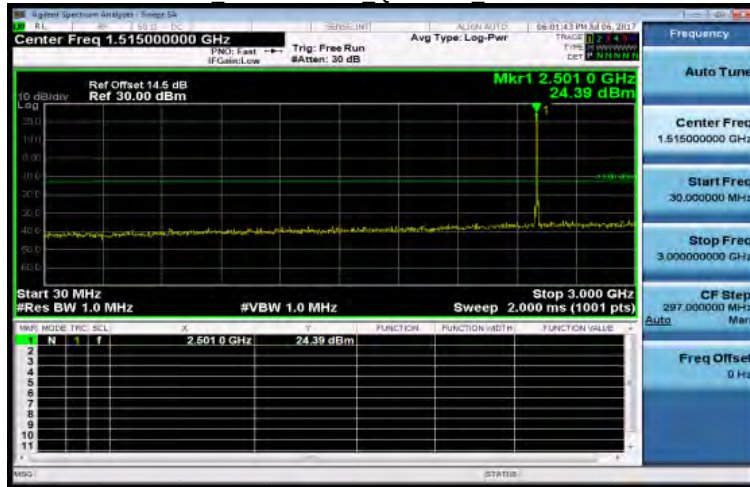


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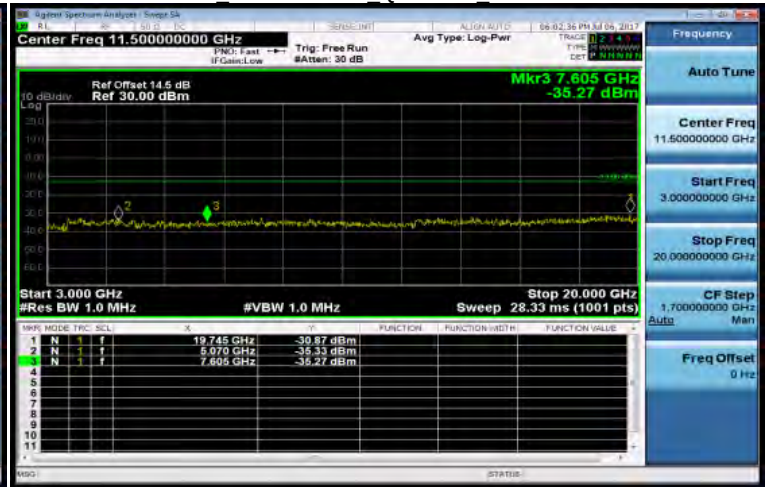
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30MHz~3GHz Band7 10MHz QPSK 1 0 LowCH20800-2505



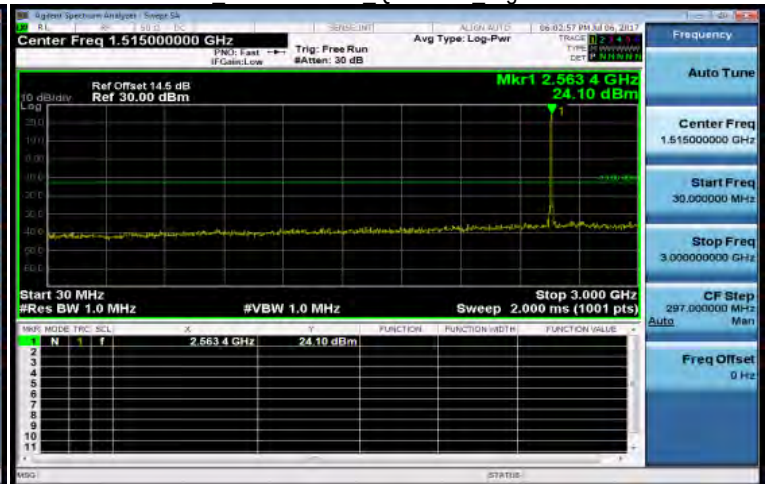
3GHz~10GHz Band7 10MHz QPSK 1 0 MidCH21100-2535



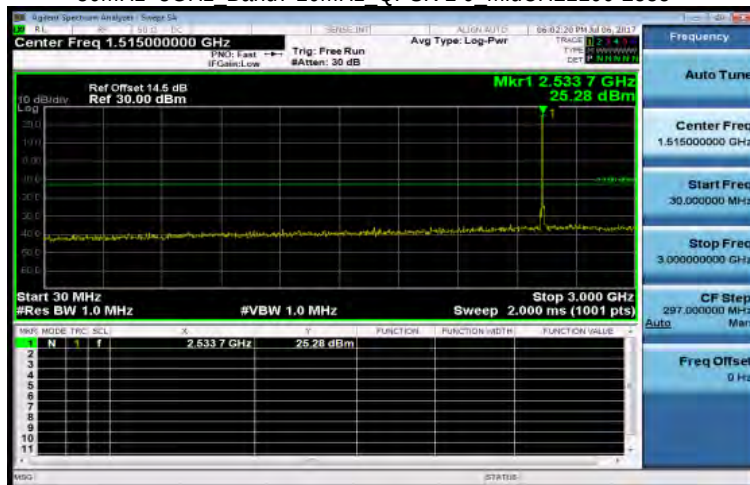
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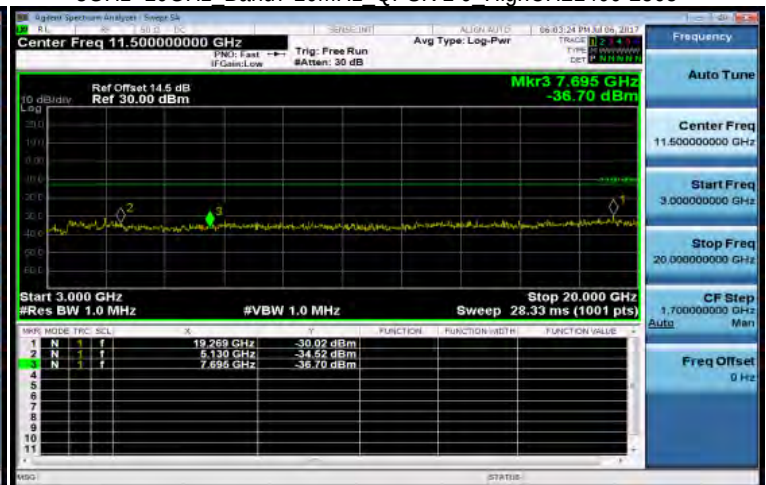
30MHz~3GHz Band7 10MHz QPSK 1 0 HighCH21400-2565



30MHz~3GHz Band7 10MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 10MHz QPSK 1 0 HighCH21400-2565

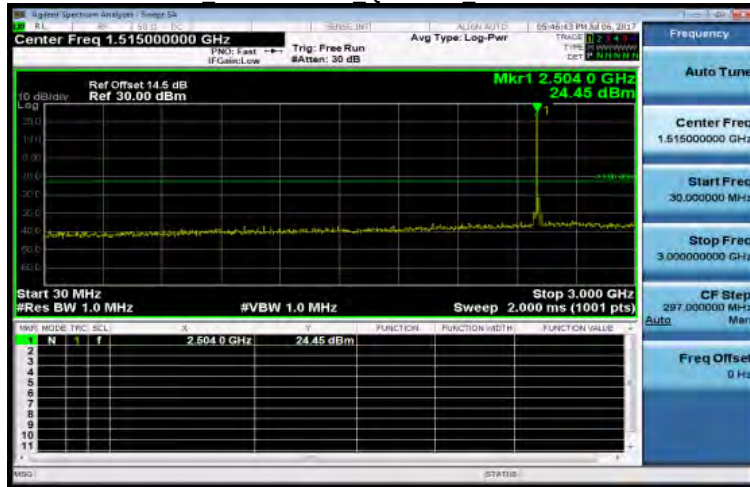


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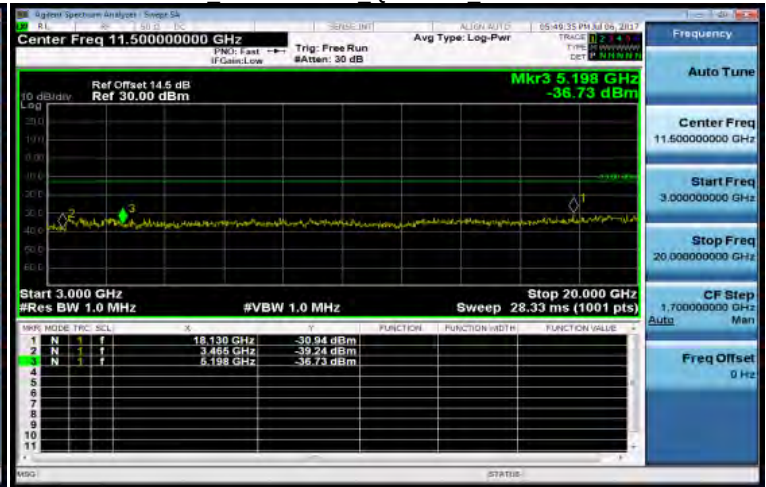
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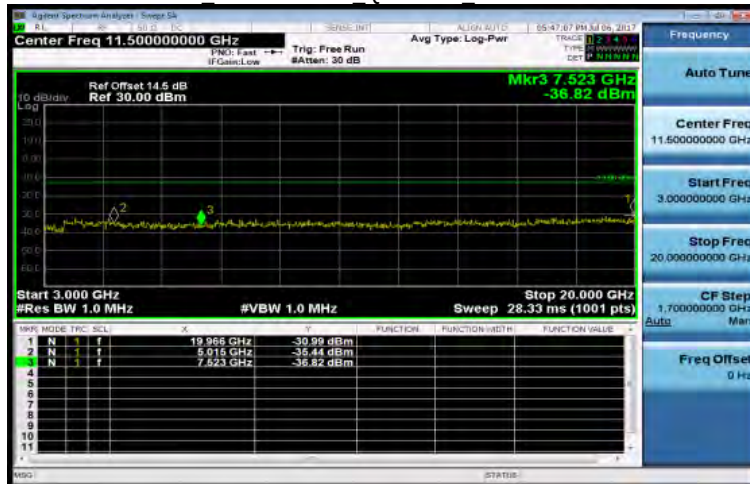
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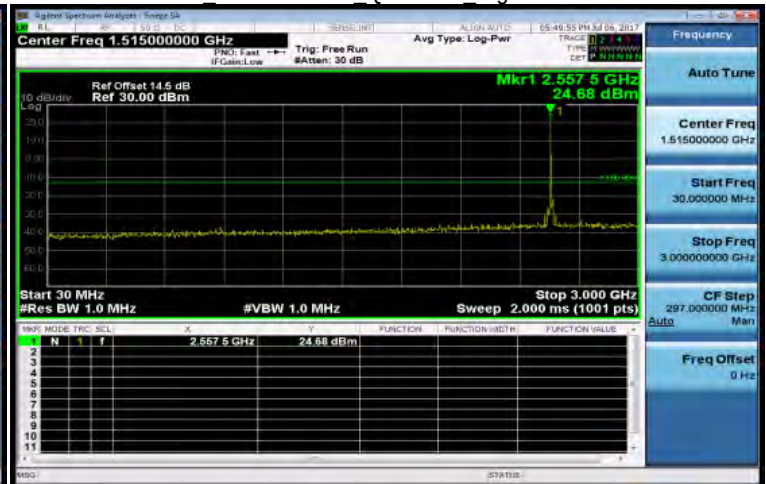
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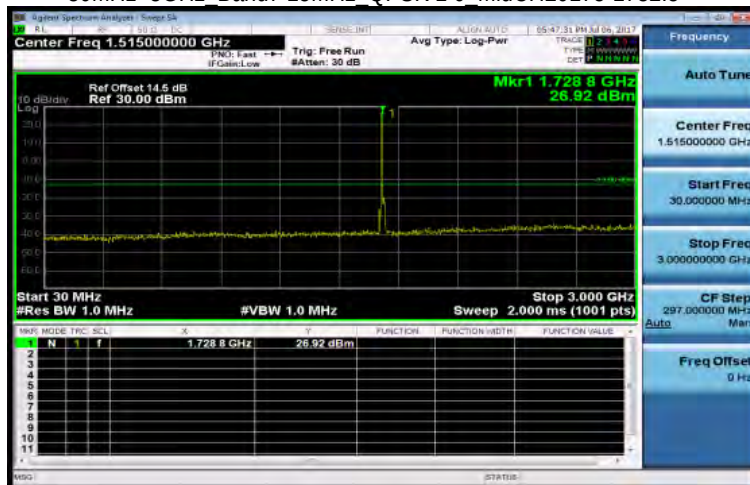
3GHz~10GHz Band7 15MHz QPSK 1.0 LowCH20825-2507.5



30MHz~3GHz Band7 15MHz QPSK 1.0 HighCH21375-2562.5



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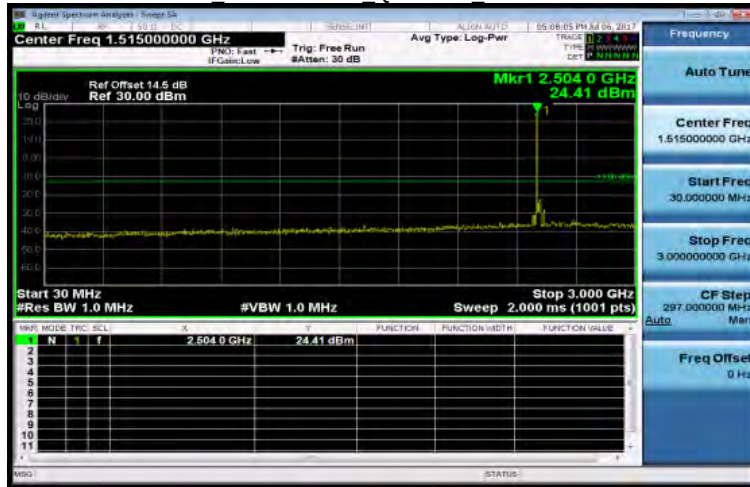


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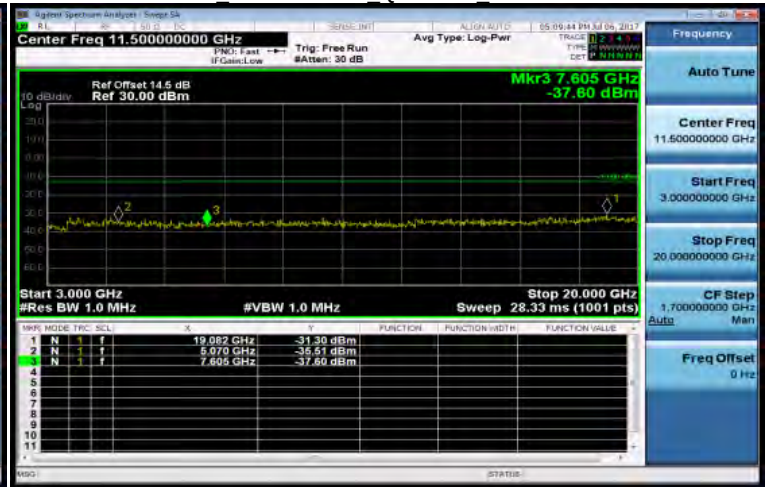
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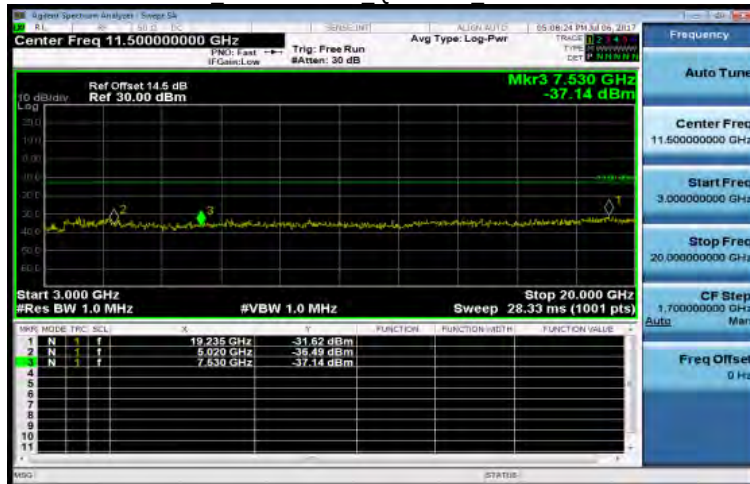
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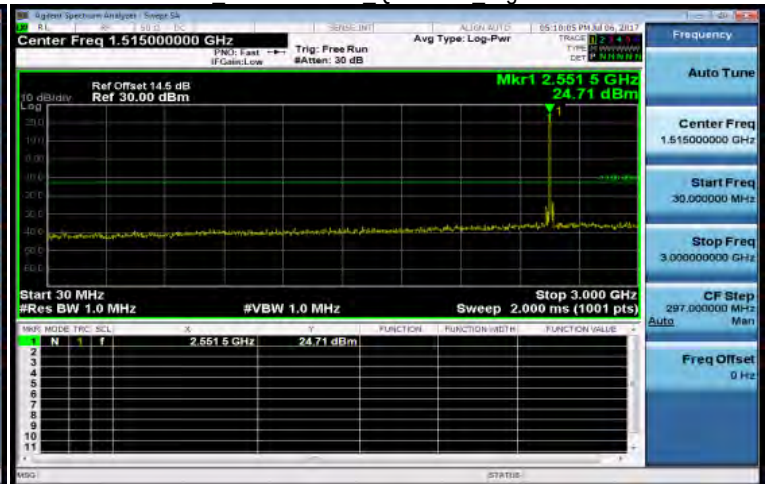
3GHz~10GHz Band7 20MHz QPSK 1 0 MidCH21100-2535



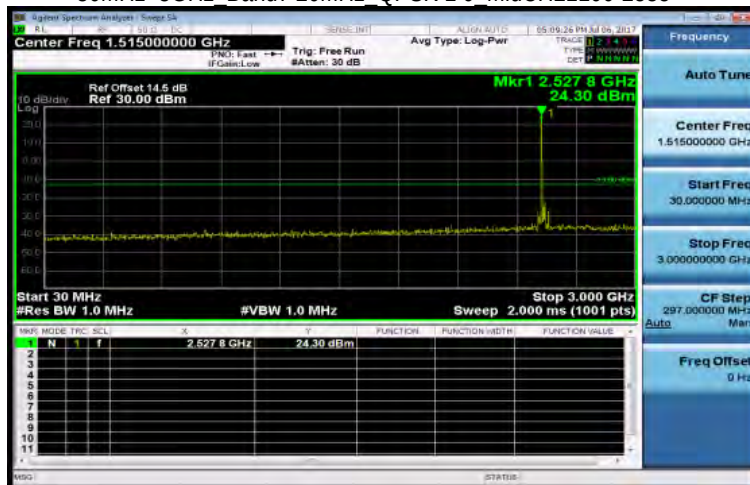
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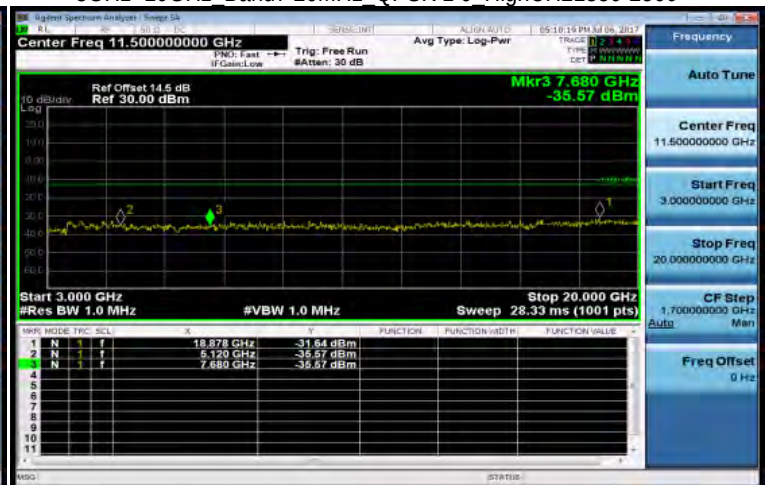
30MHz~3GHz Band7 20MHz QPSK 1 0 HighCH21350-2560



30MHz~3GHz Band7 20MHz QPSK 1 0 MidCH21100-2535



3GHz~10GHz Band7 20MHz QPSK 1 0 HighCH21350-2560

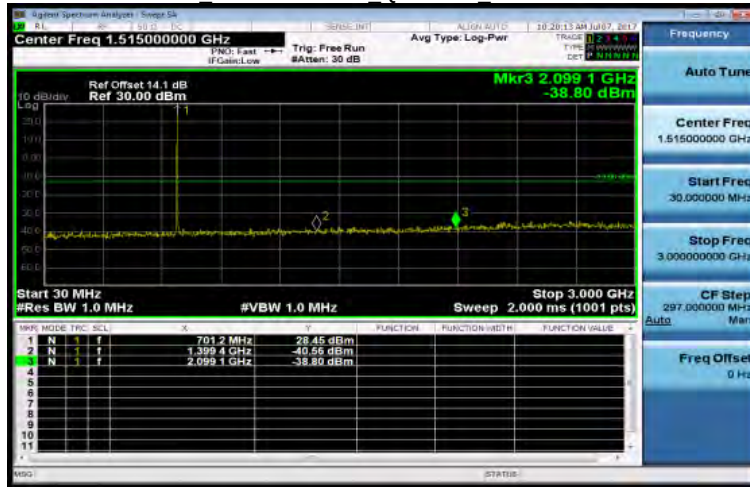


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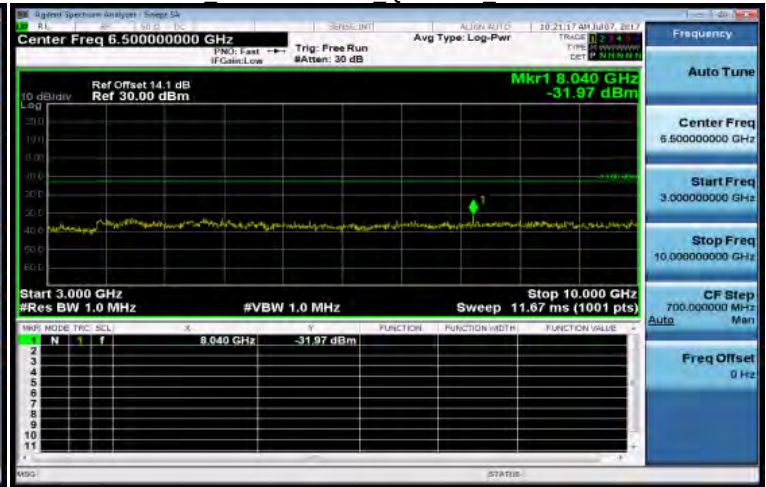
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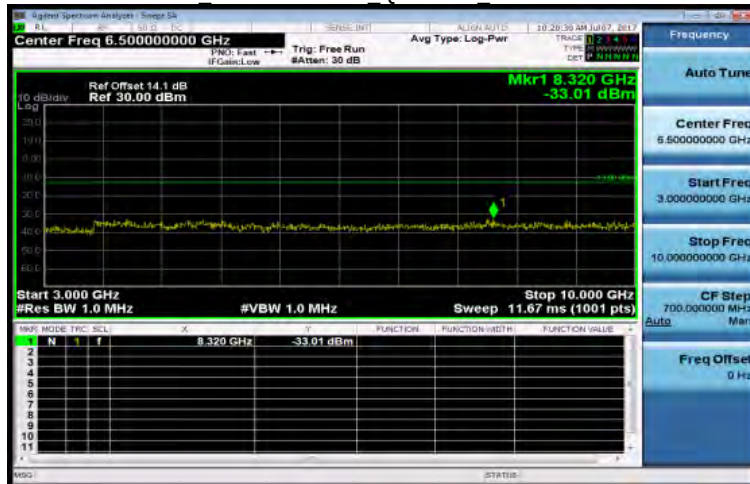
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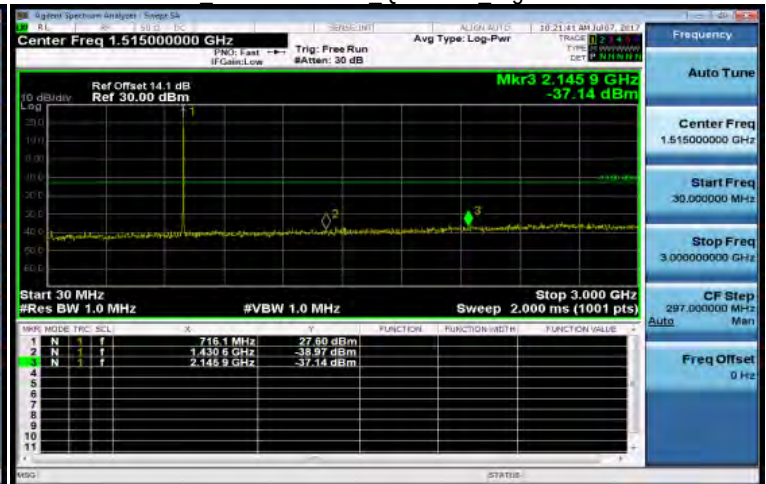
3GHz~10GHz Band12 1.4MHz QPSK 1 0 MidCH23095-707.5



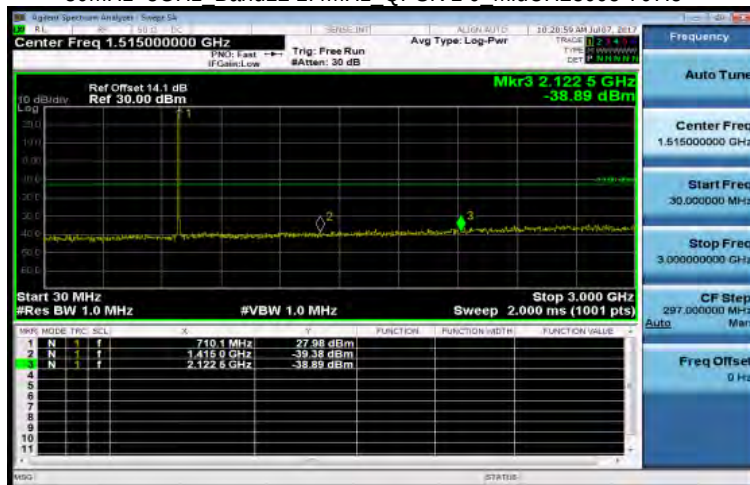
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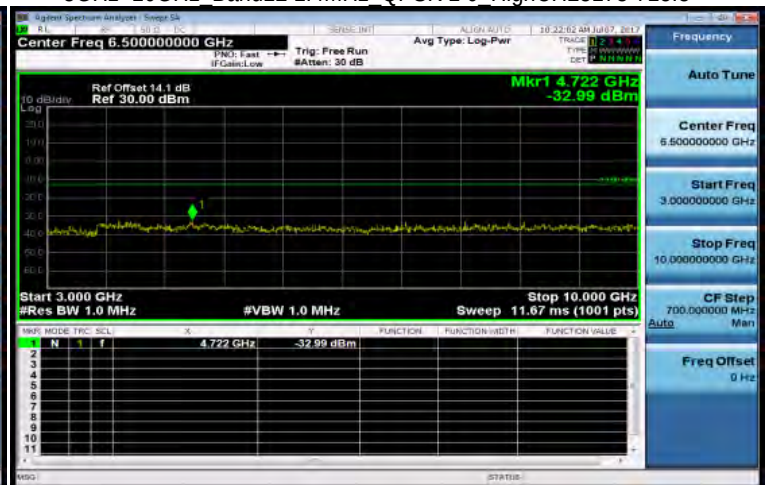
30MHz~3GHz Band12 1.4MHz QPSK 1 0 HighCH23173-715.3



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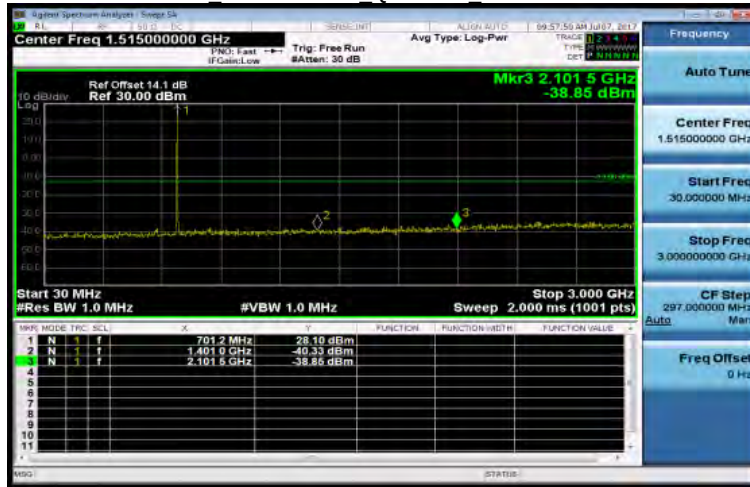


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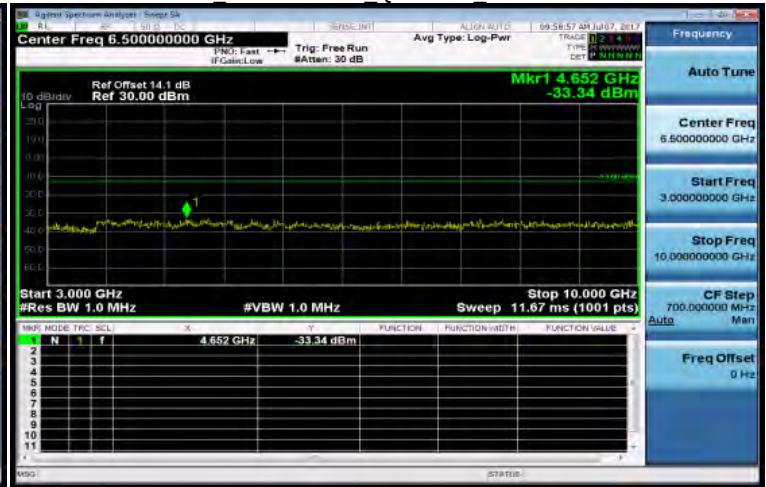
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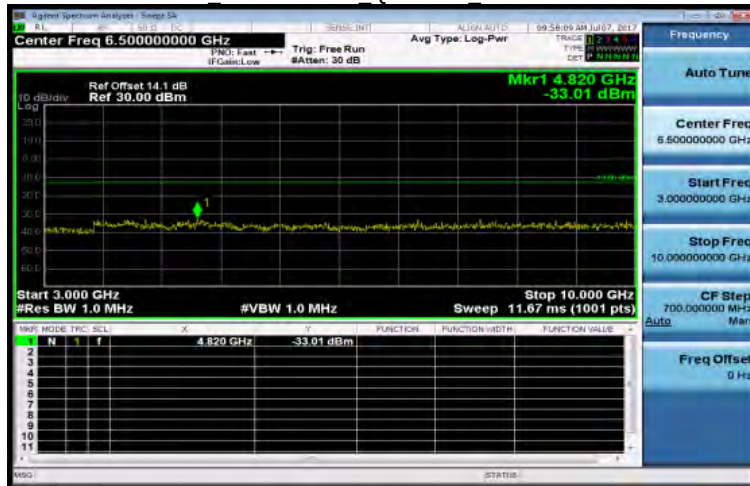
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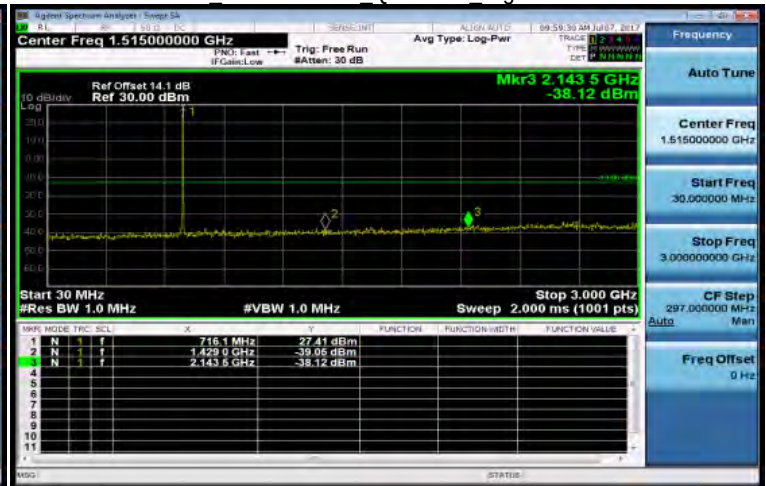
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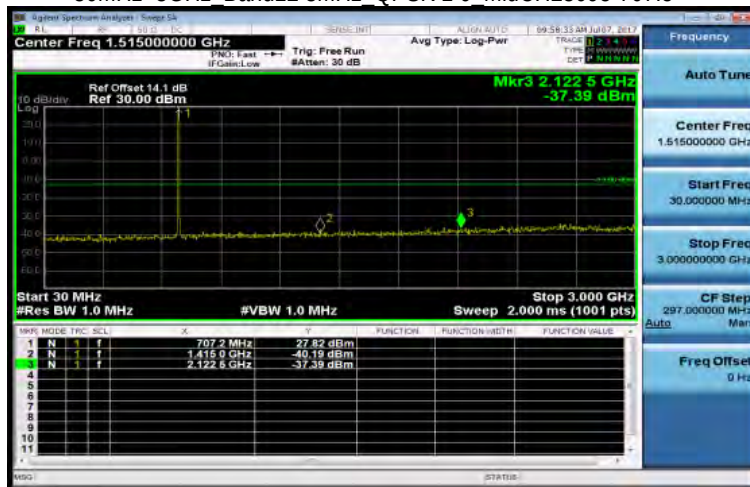
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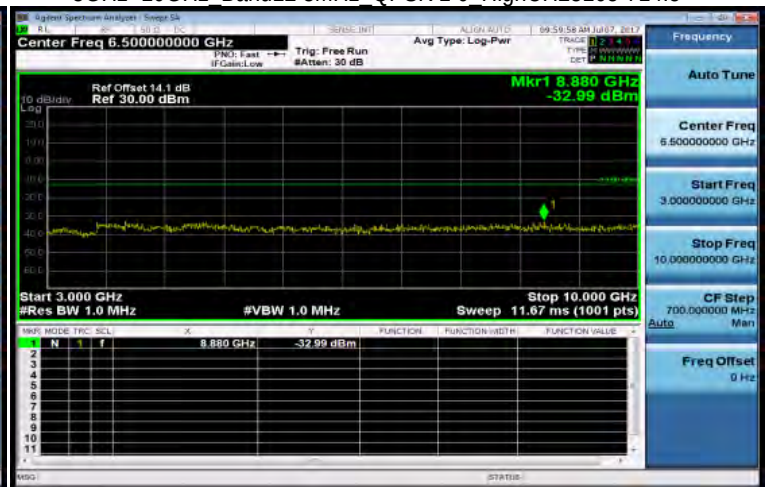
30MHz~3GHz Band12 3MHz QPSK 1 0 HighCH23165-714.5



30MHz~3GHz Band12 3MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 3MHz QPSK 1 0 HighCH23165-714.5

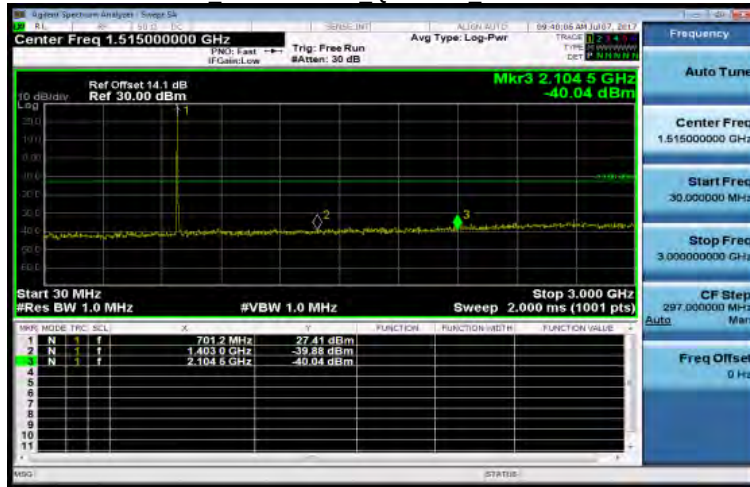


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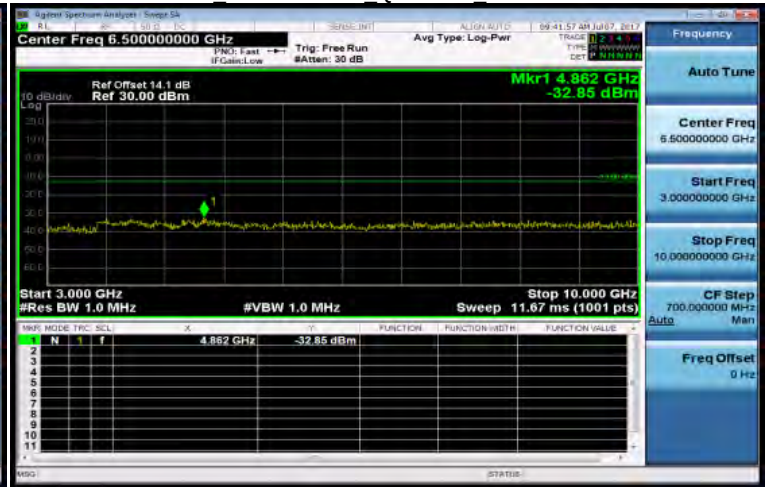
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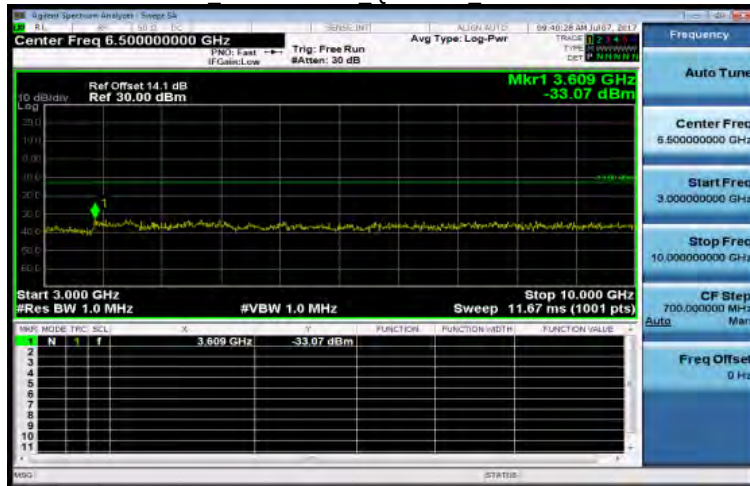
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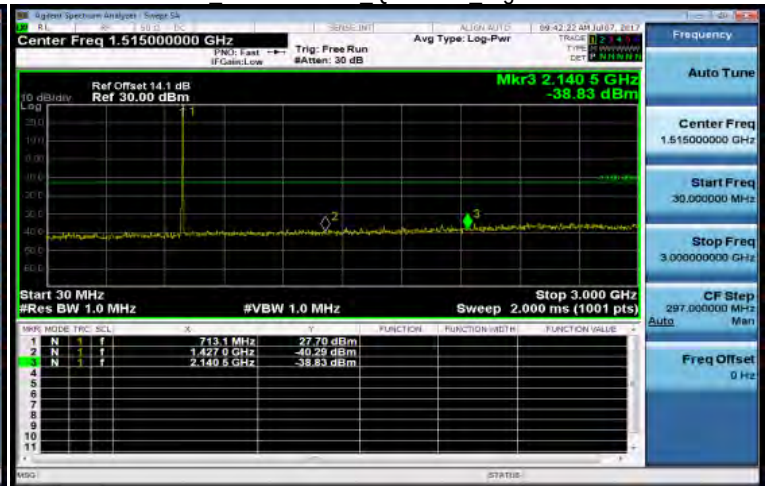
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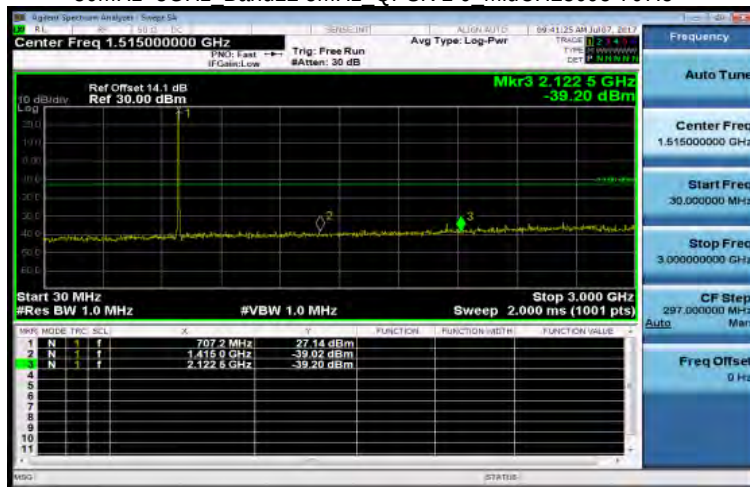
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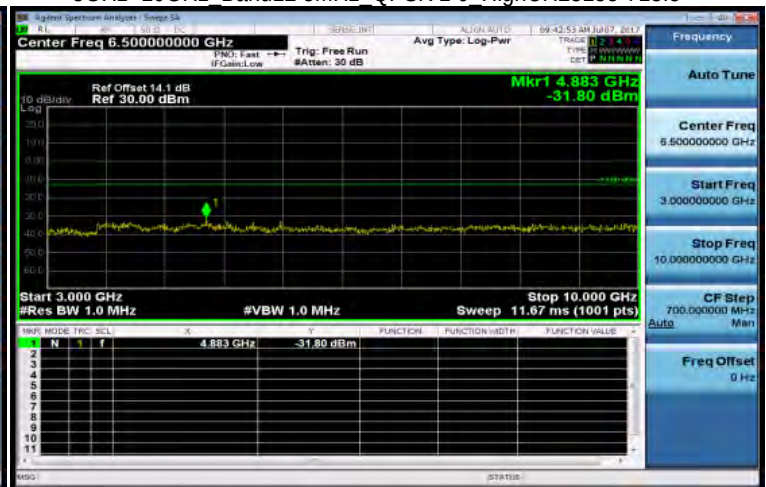
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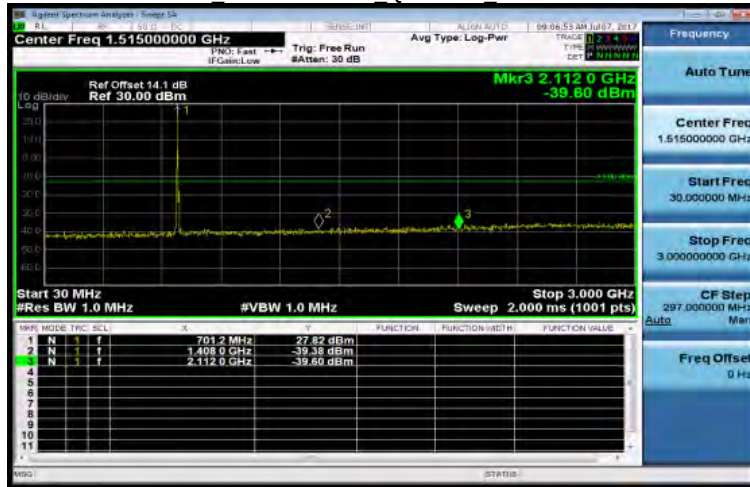


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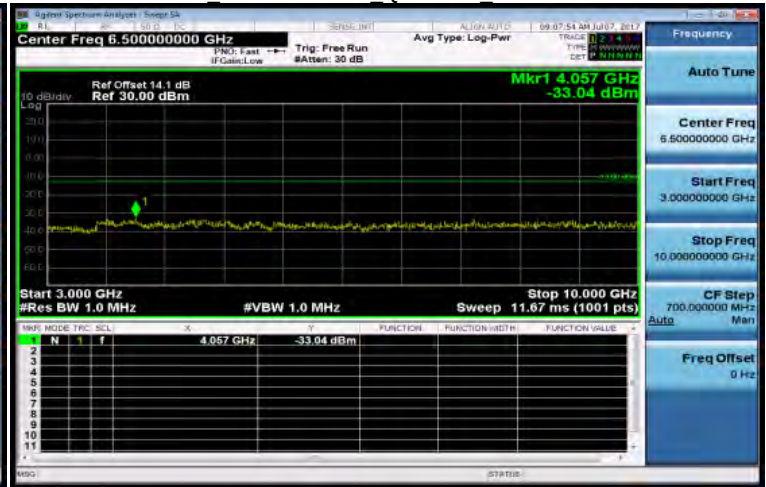
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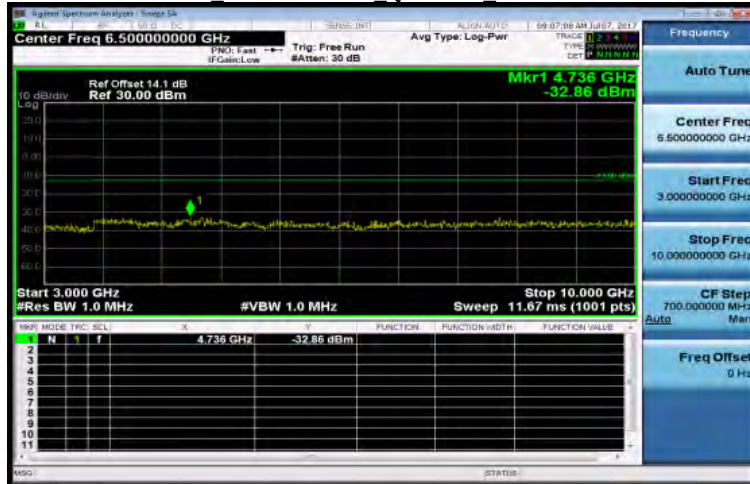
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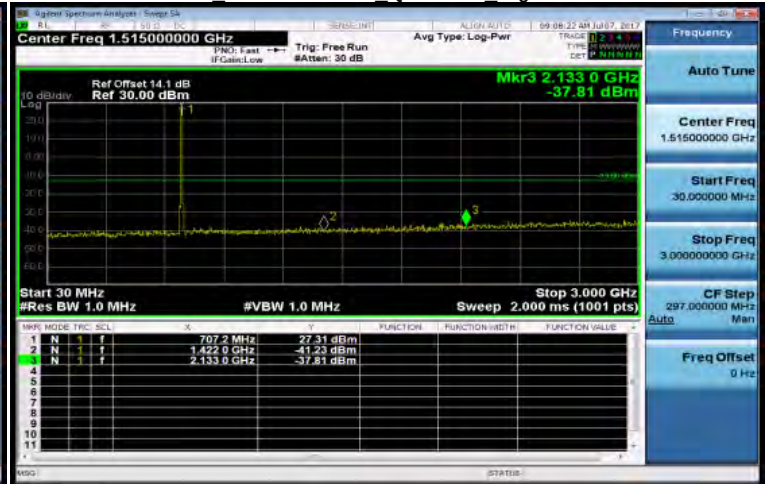
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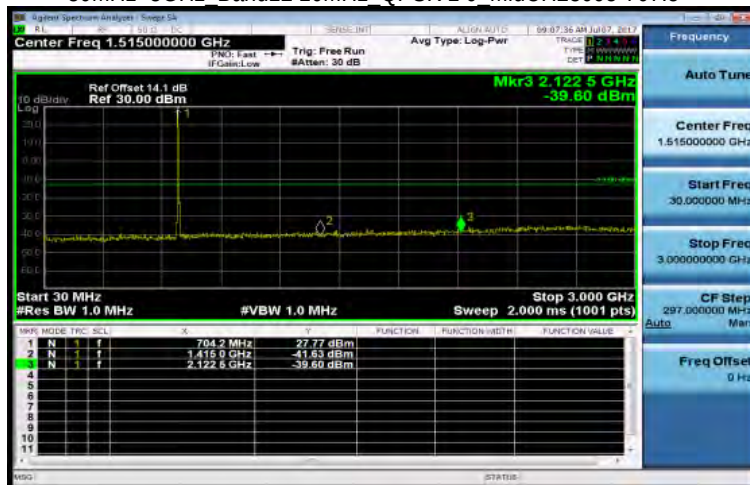
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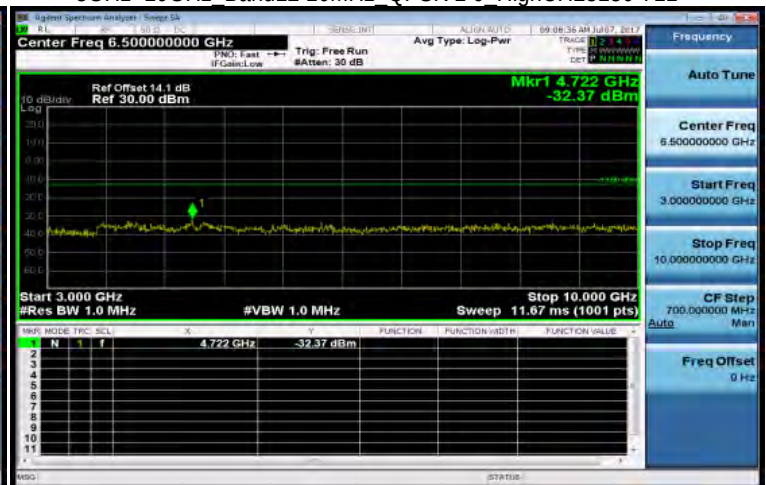
30MHz~3GHz Band12 10MHz QPSK 10 HighCH23130-711



30MHz~3GHz Band12 10MHz QPSK 10 MidCH23095-707.5



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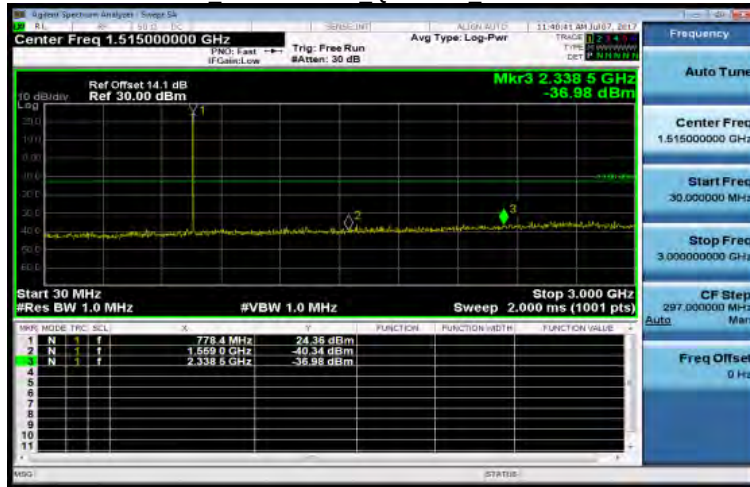


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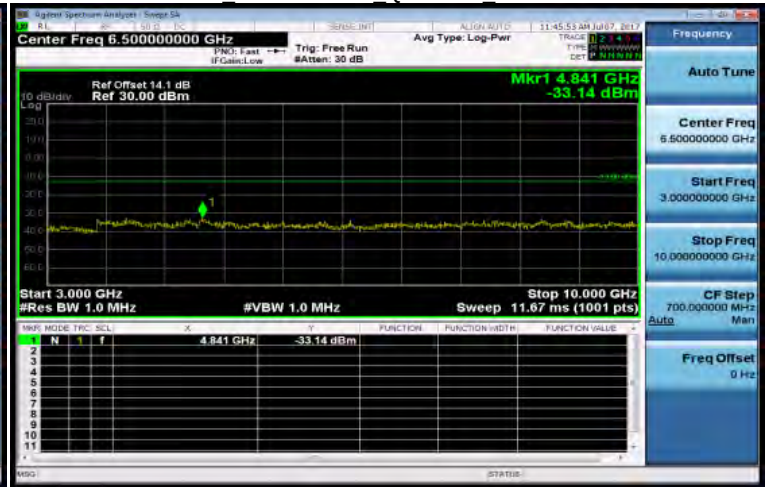
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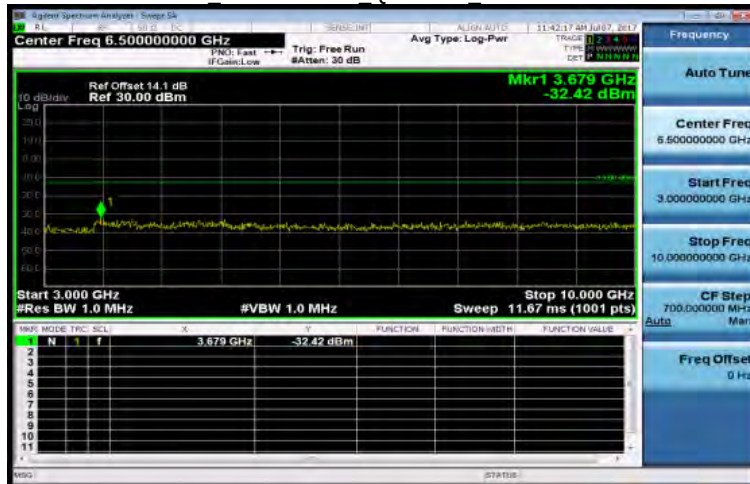
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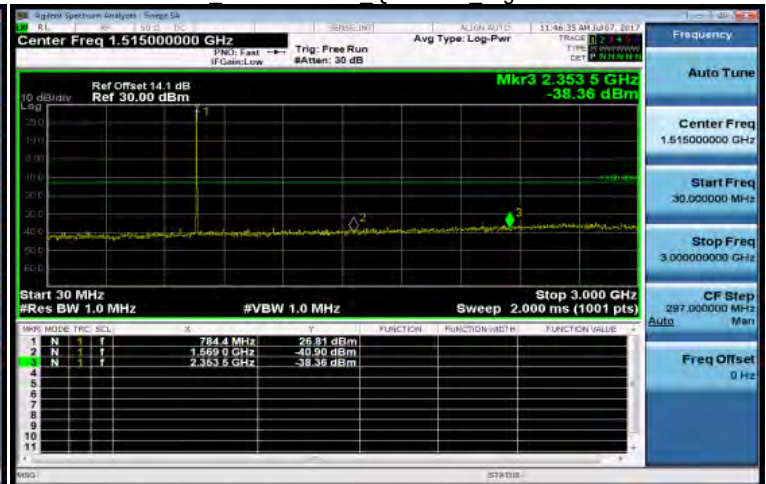
3GHz~10GHz Band13 5MHz QPSK 1 0 MidCH23230-782



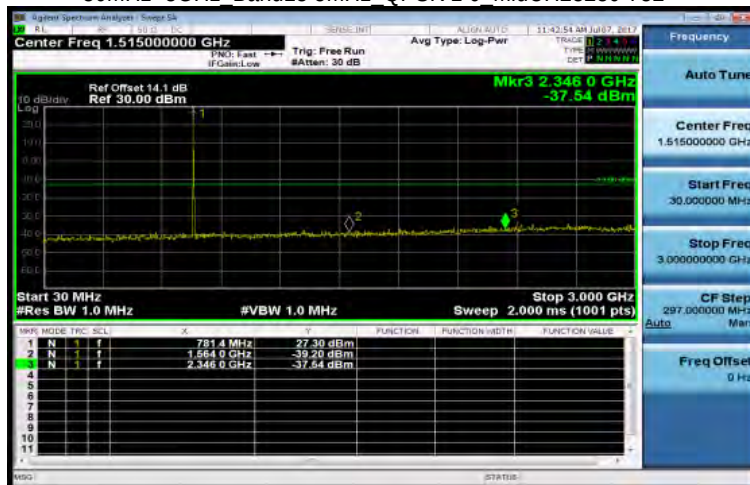
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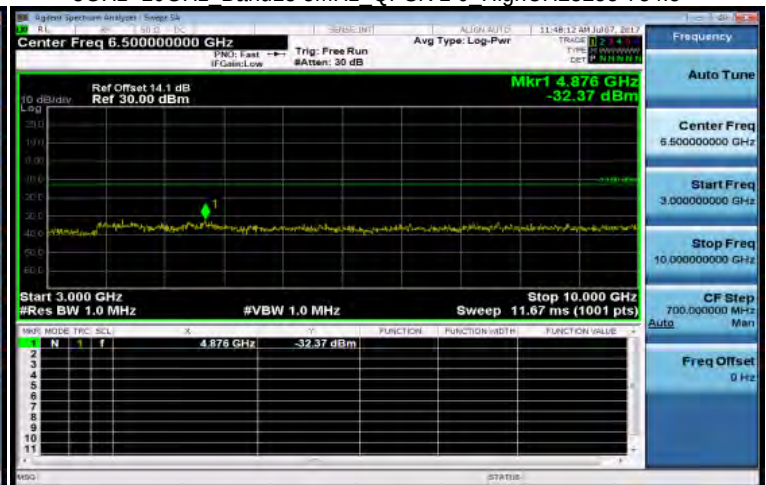
30MHz~3GHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



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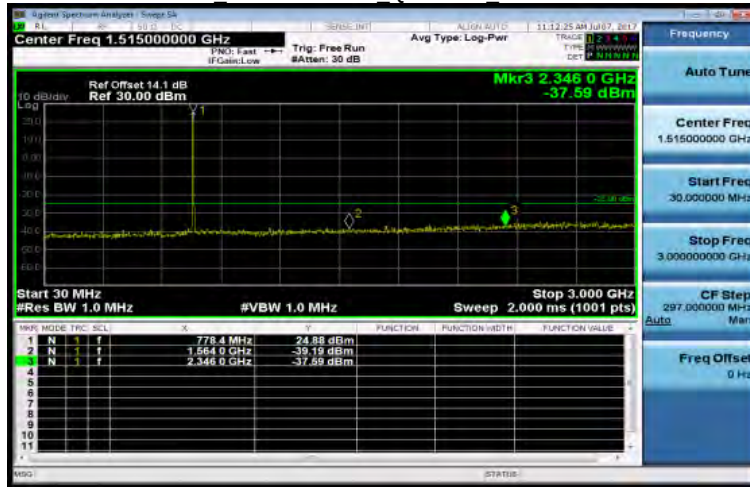


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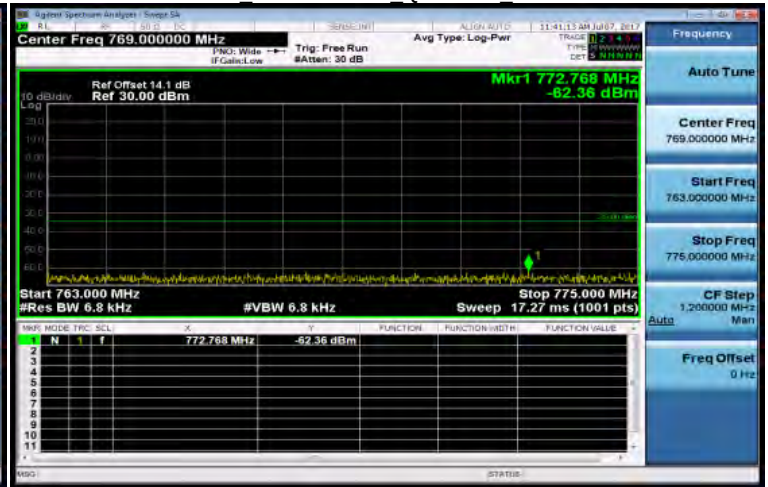
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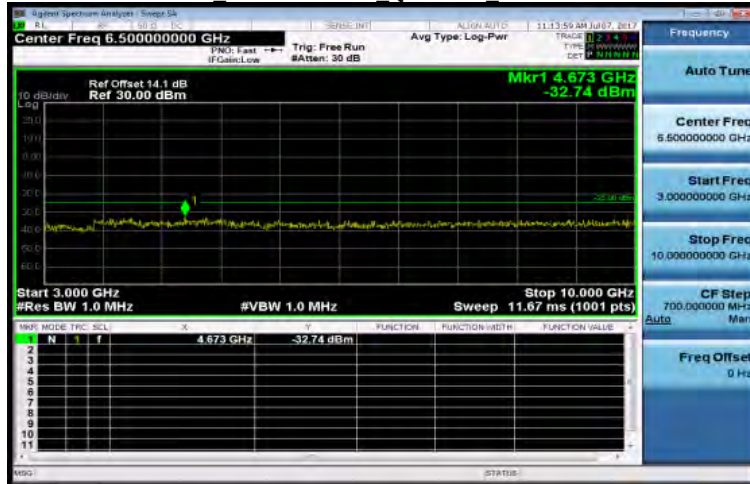
30MHz~3GHz Band13 10MHz QPSK 1 0 MidCH23230-782



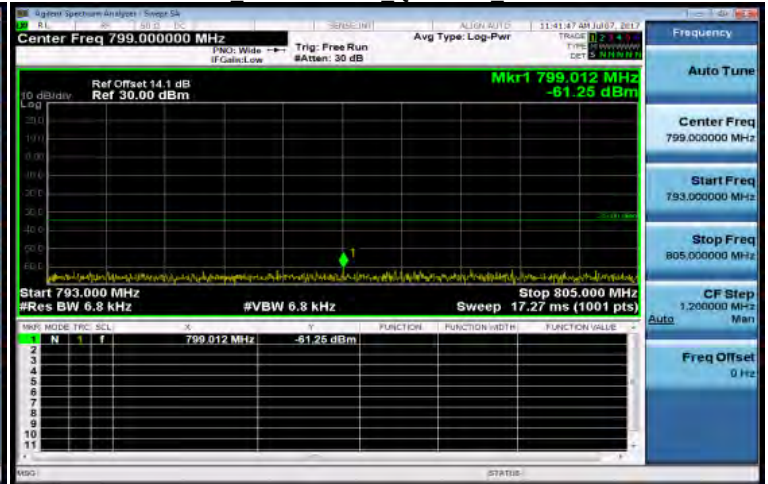
763.3MHz~775MHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



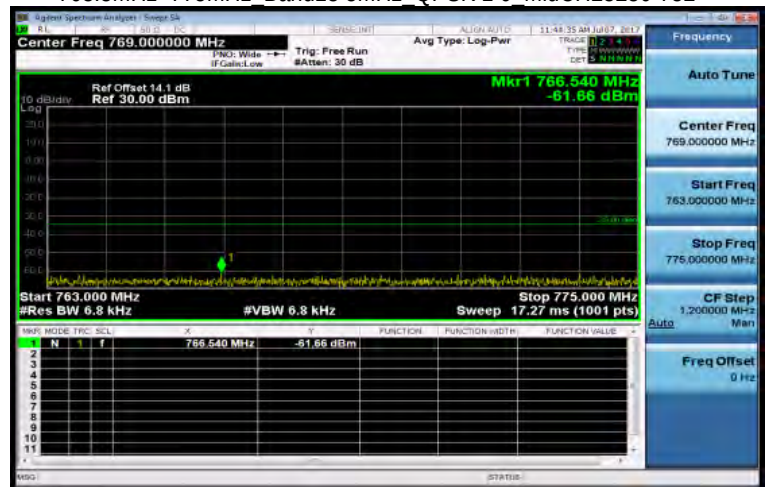
3GHz~10GHz Band13 10MHz QPSK 1 0 MidCH23230-782



793MHz~805MHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



763.3MHz~775MHz Band13 5MHz QPSK 1 0 MidCH23230-782

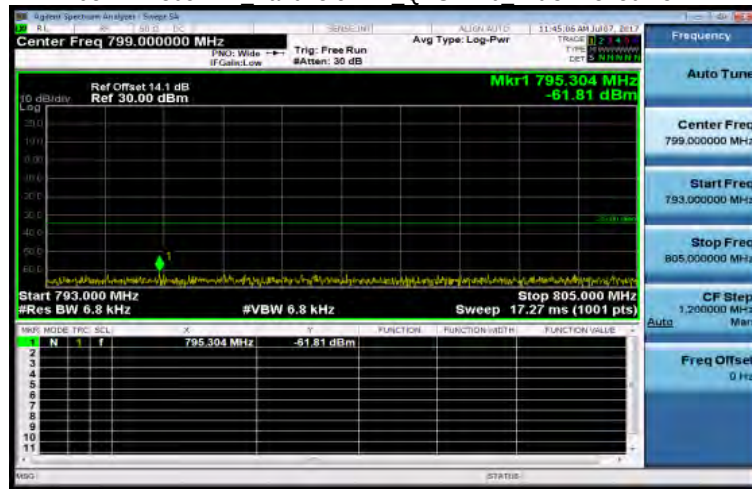


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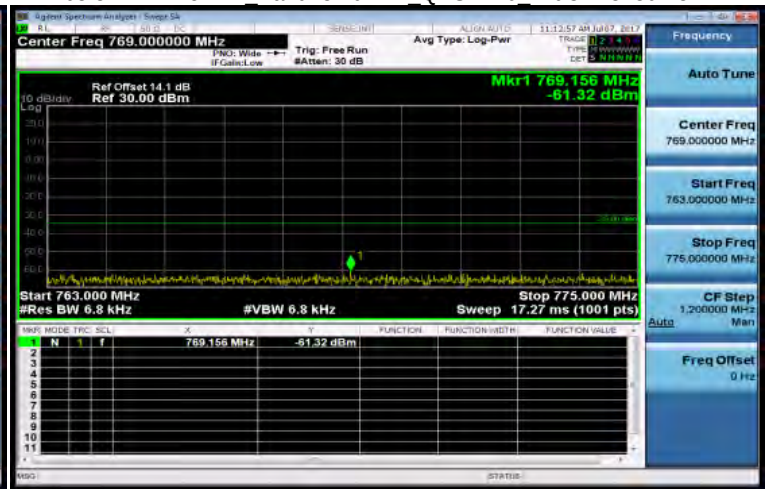
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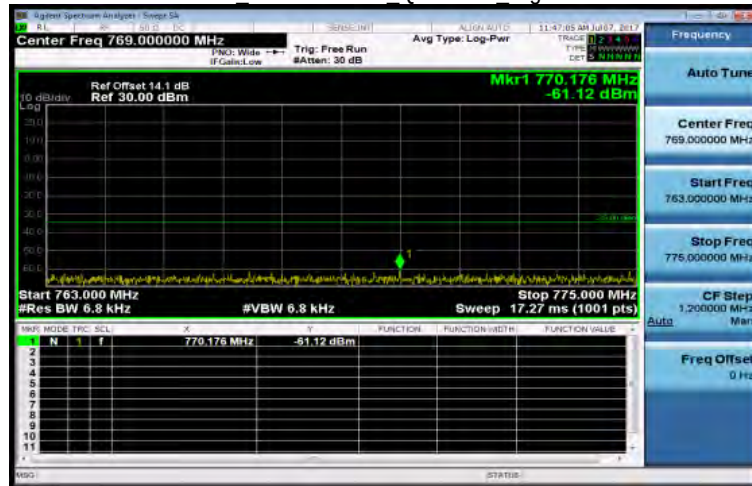
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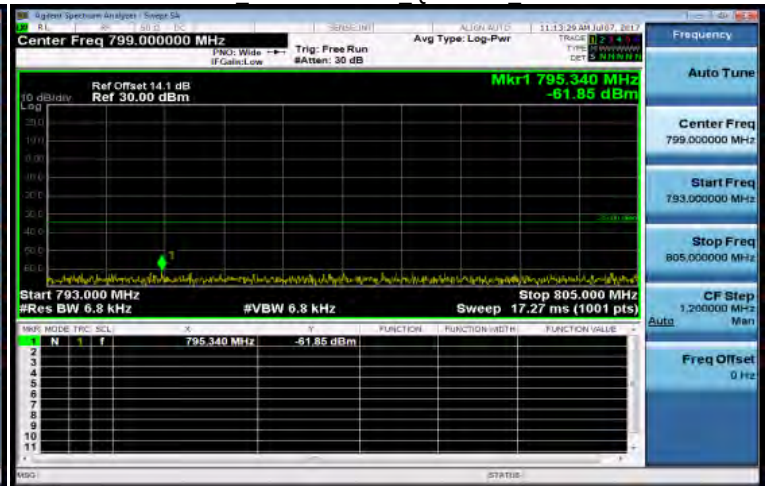
763.3MHz~775MHz Band13 10MHz QPSK 1 0 MidCH23230-782



763.3MHz~775MHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



793MHz~805MHz Band13 10MHz QPSK 1 0 MidCH23230-782



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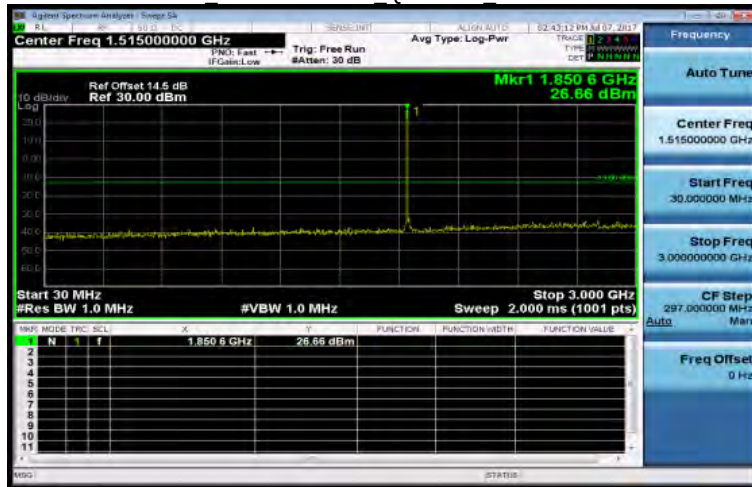


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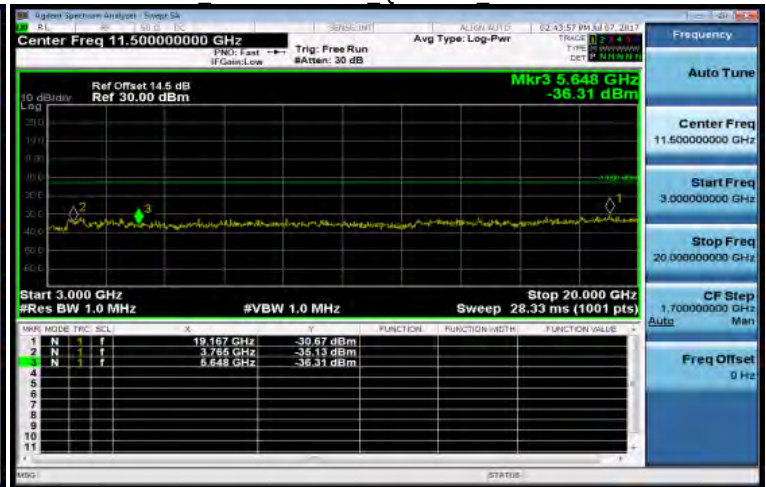
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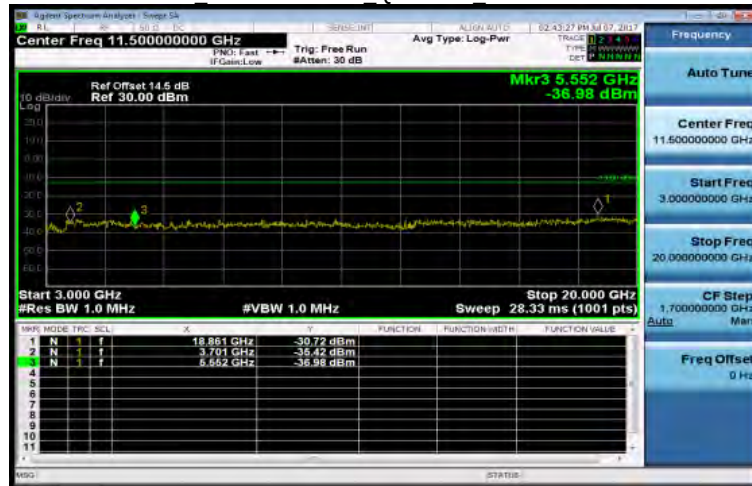
30MHz~3GHz Band25 1.4MHz QPSK 10 LowCH26047-1850.7



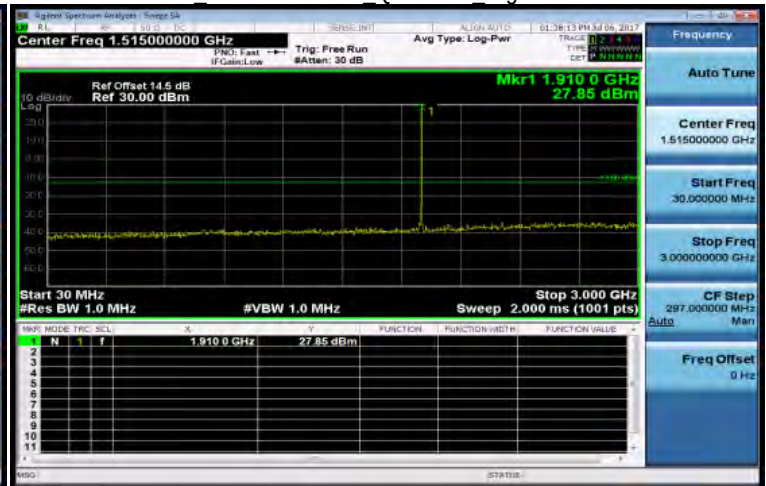
3GHz~10GHz Band25 1.4MHz QPSK 10 MidCH26365-1882.5



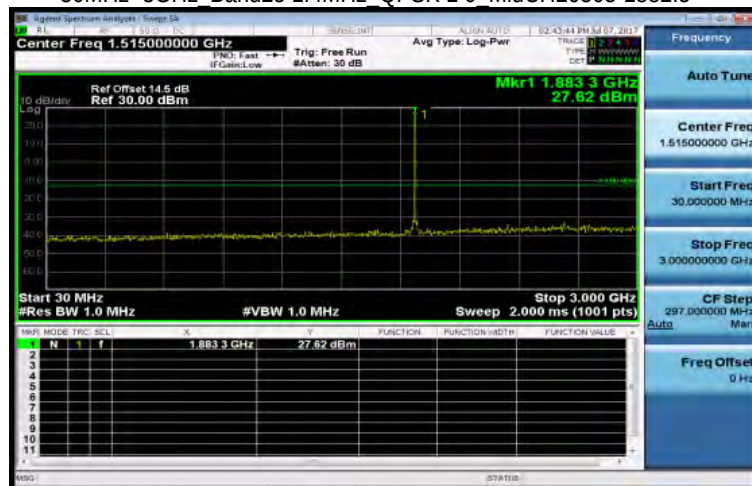
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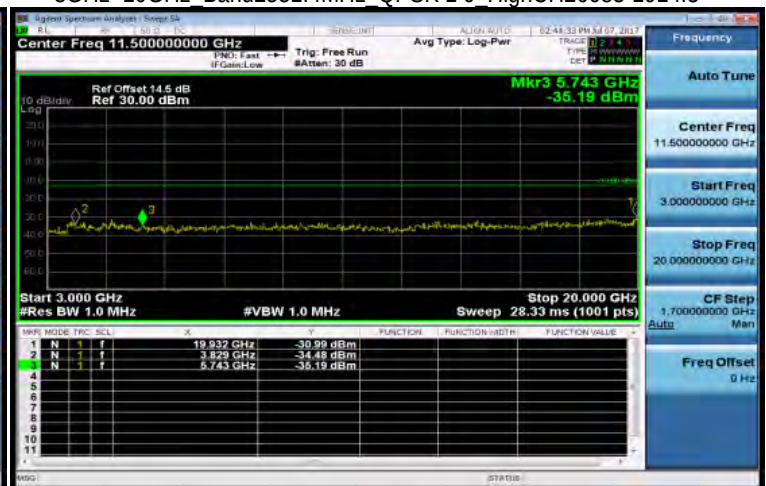
30MHz~3GHz Band25 1.4MHz QPSK 10 HighCH26683-1914.3



30MHz~3GHz Band25 1.4MHz QPSK 10 MidCH26365-1882.5



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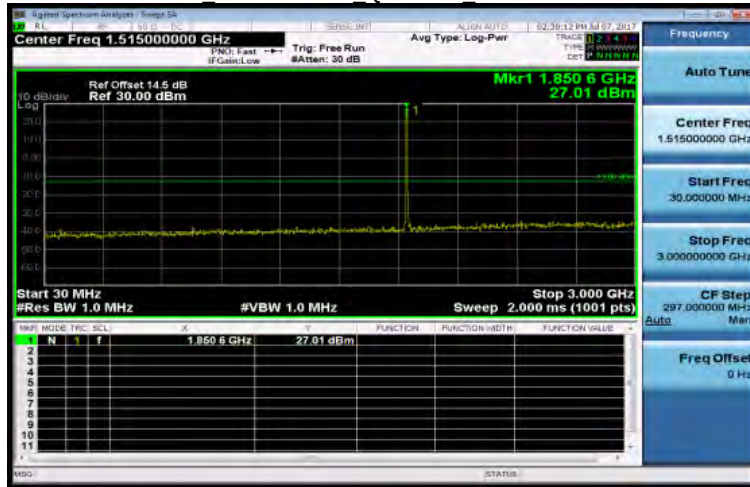


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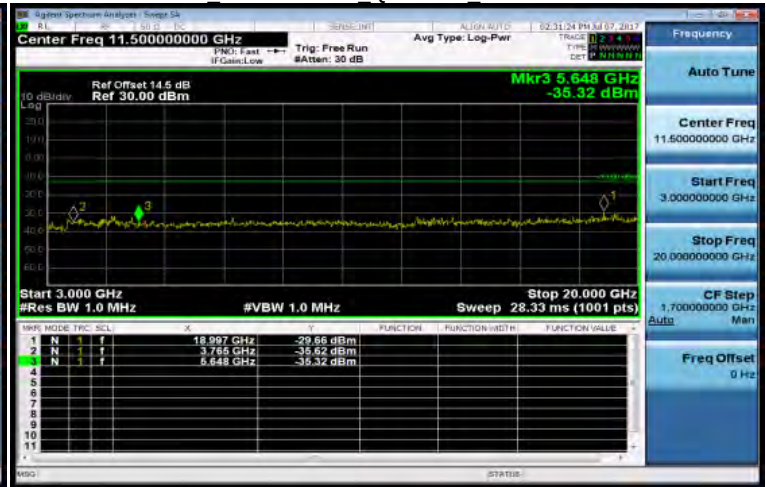
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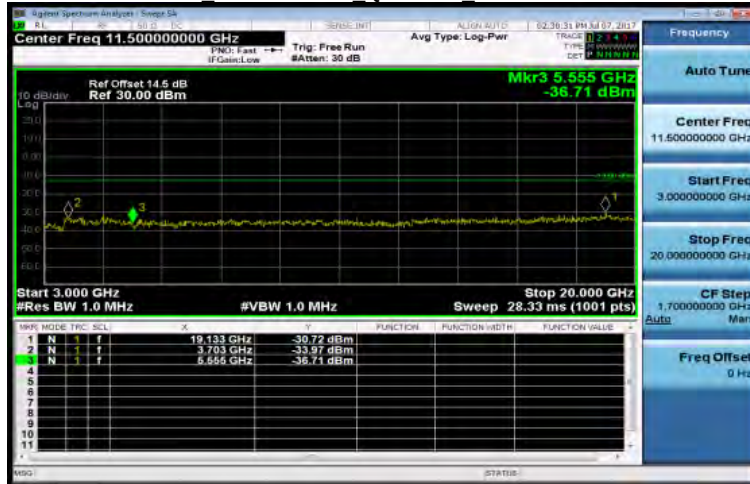
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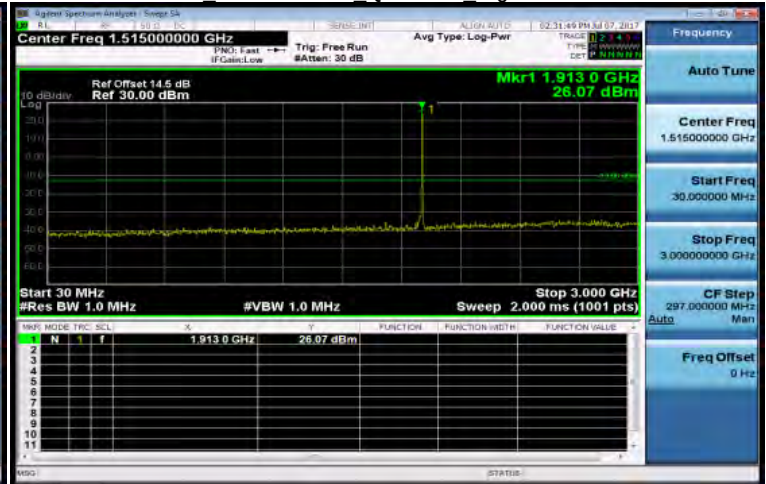
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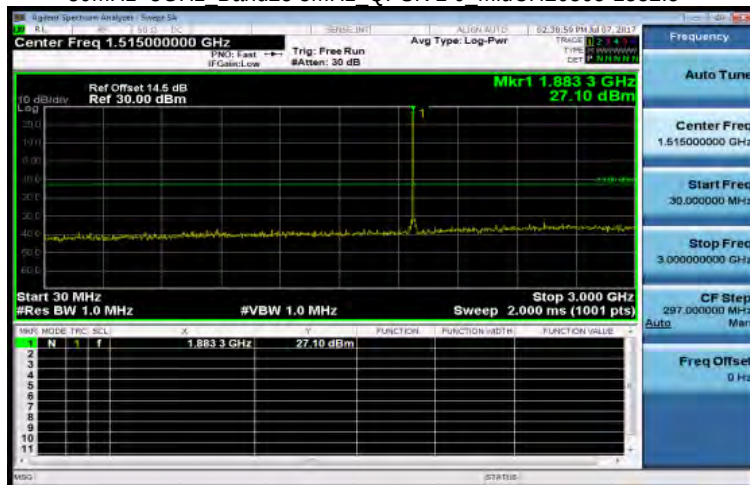
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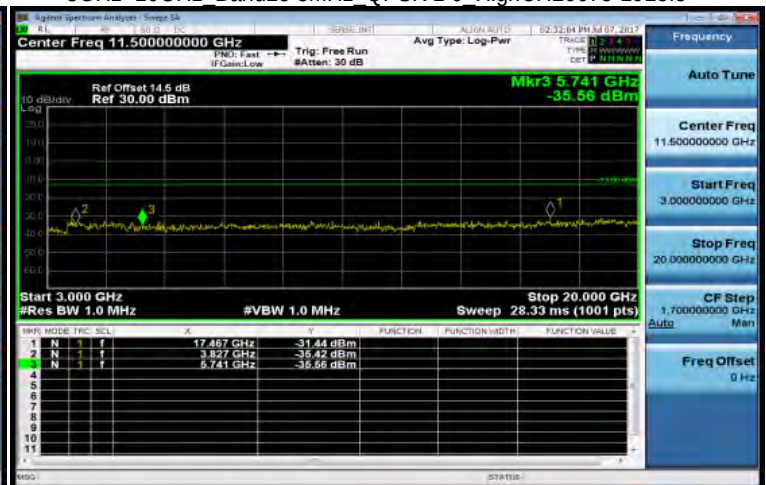
30MHz~3GHz Band25 3MHz QPSK 1 0 HighCH26675-1913.5



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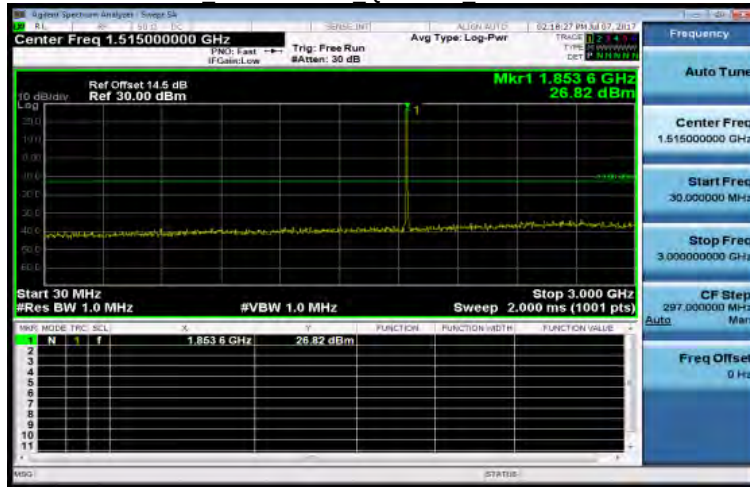


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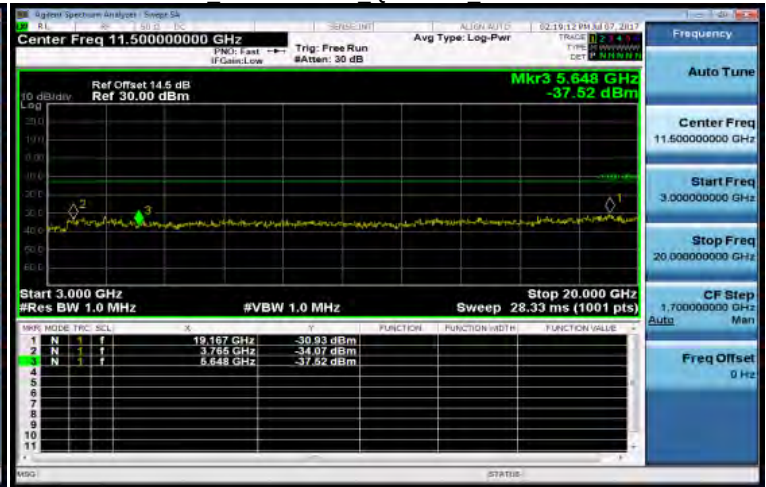
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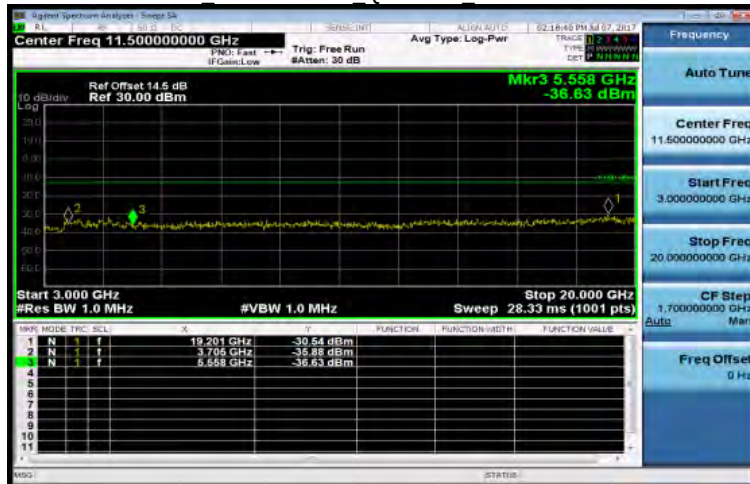
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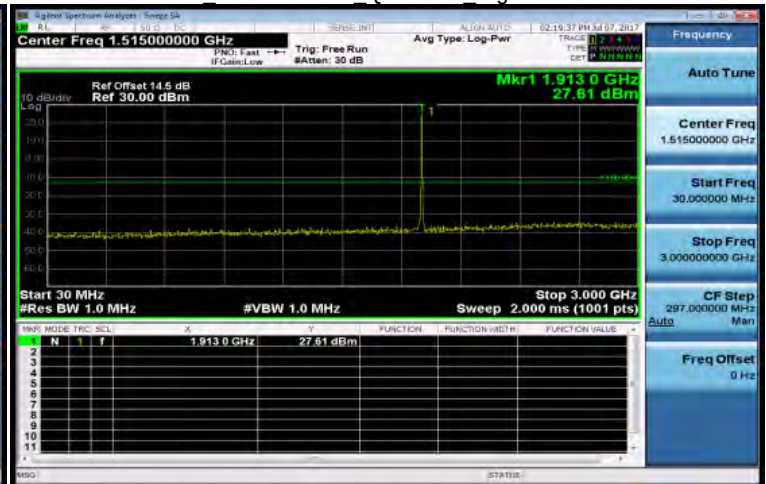
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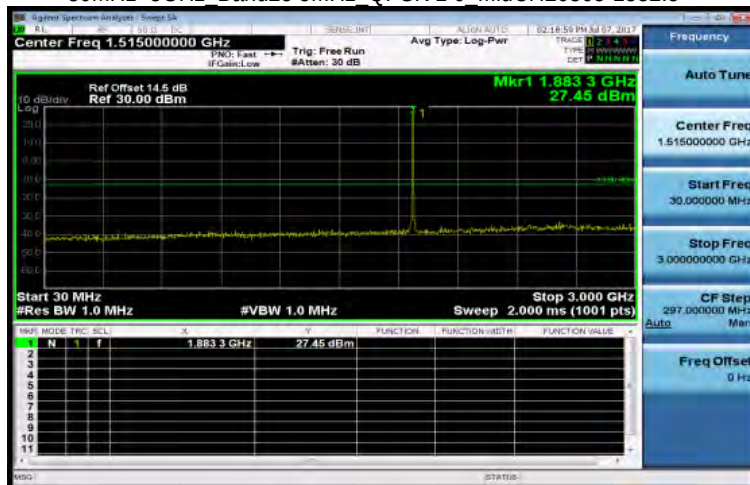
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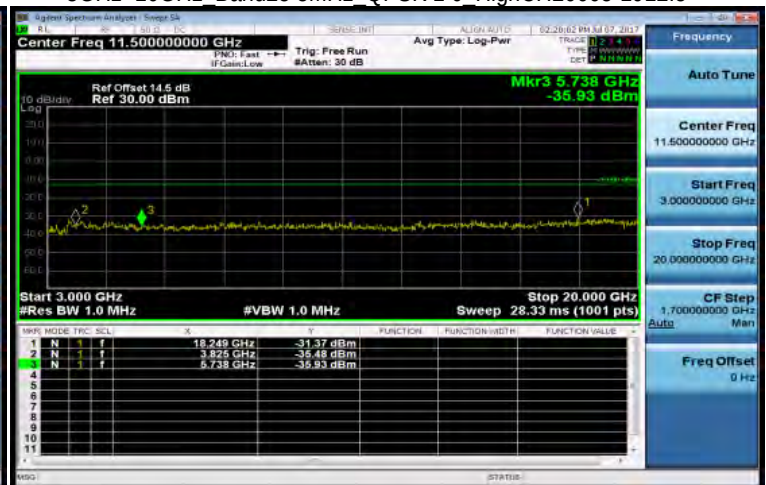
30MHz~3GHz Band25 5MHz QPSK 1 0 HighCH26665-1912.5



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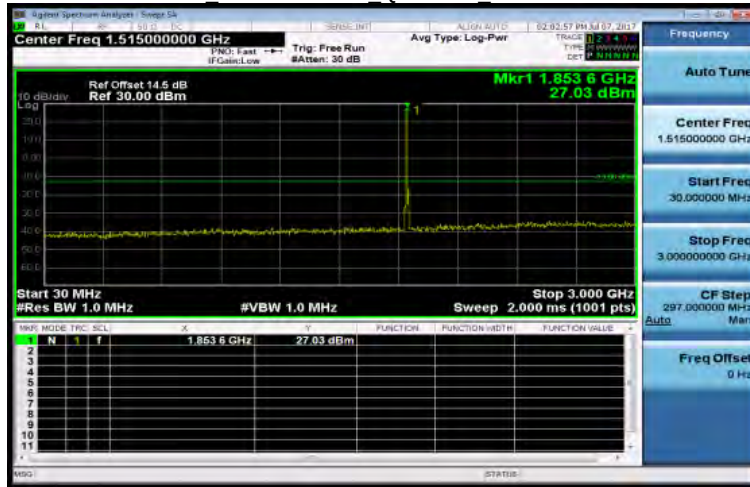


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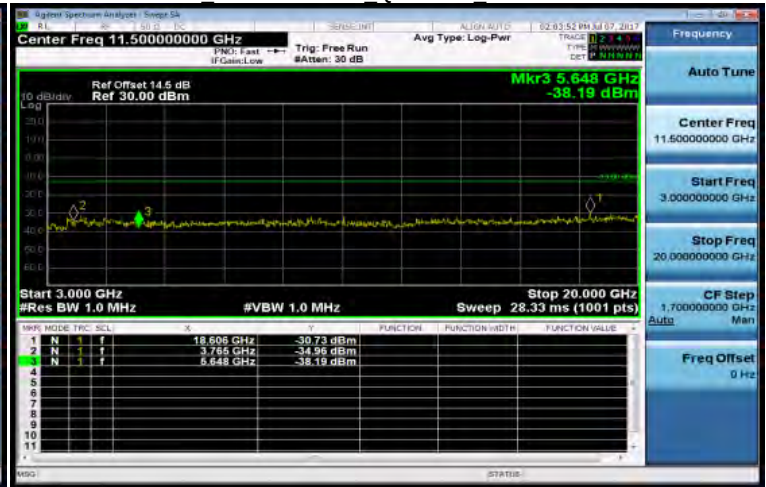
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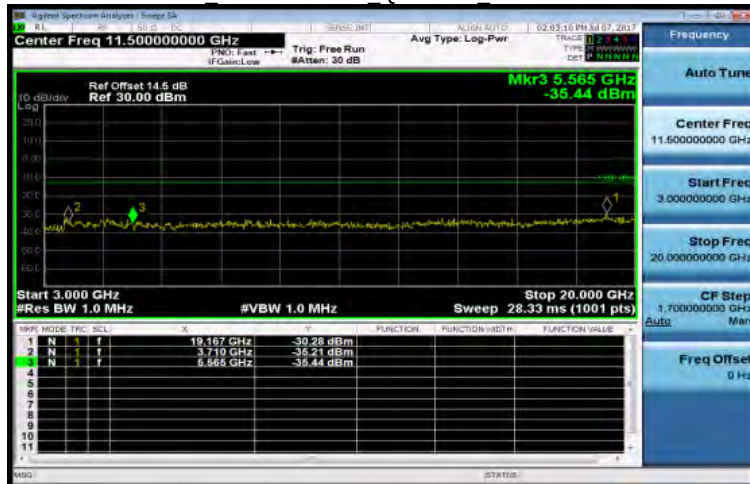
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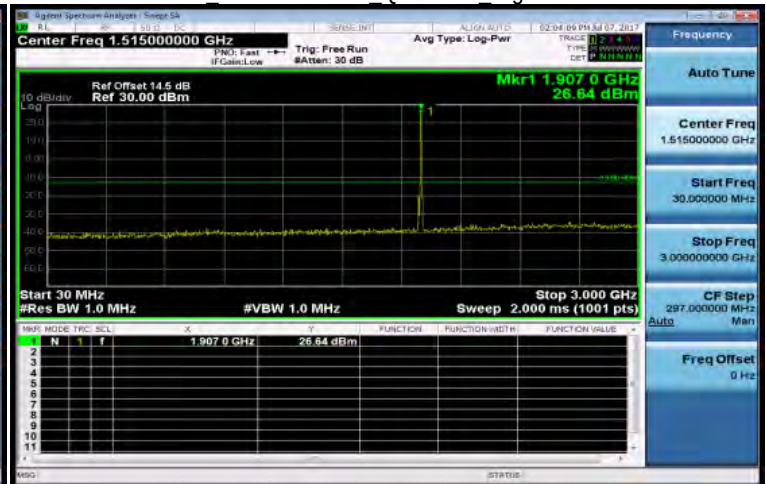
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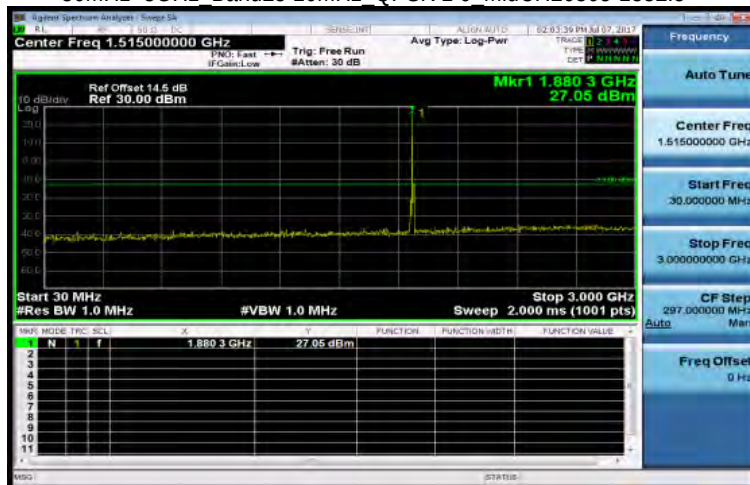
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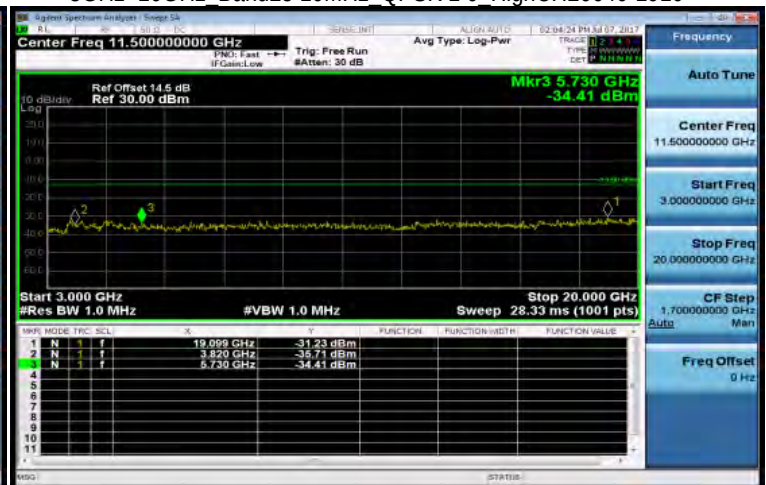
30MHz~3GHz Band25 10MHz QPSK 1 0 HighCH26640-1910



30MHz~3GHz Band25 10MHz QPSK 1 0 MidCH26365-1882.5



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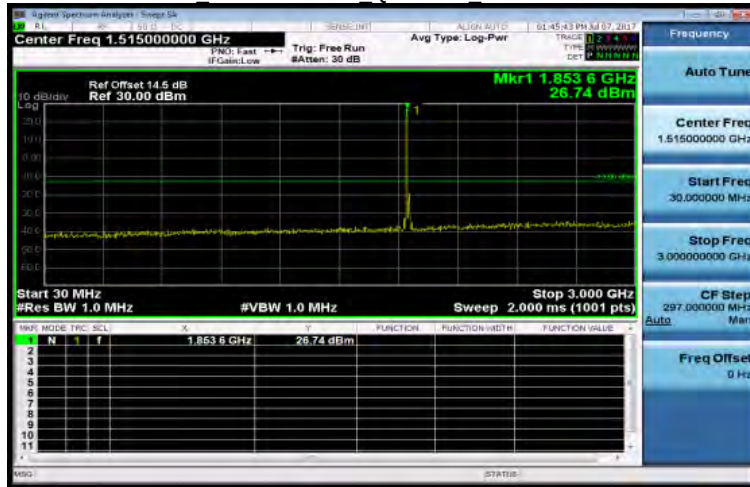


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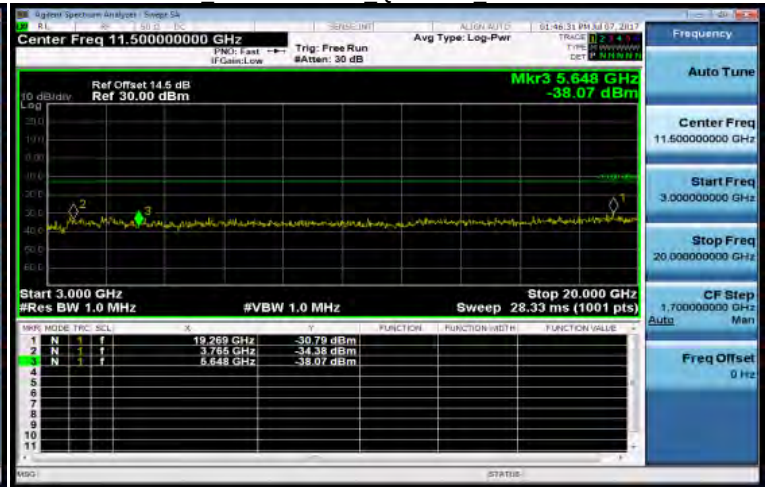
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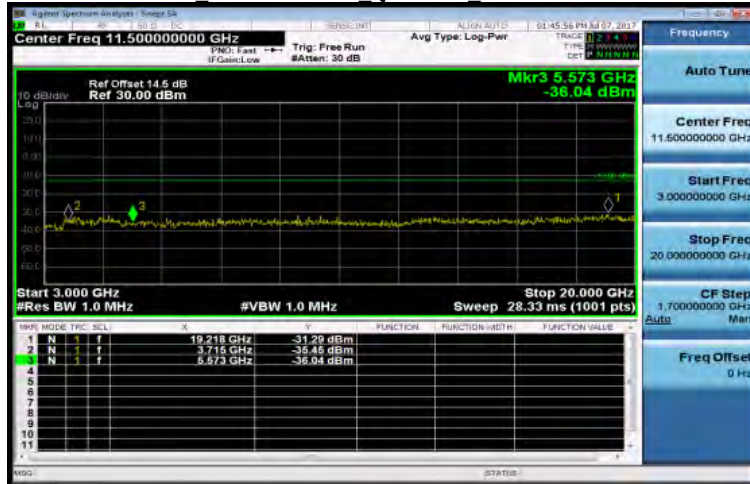
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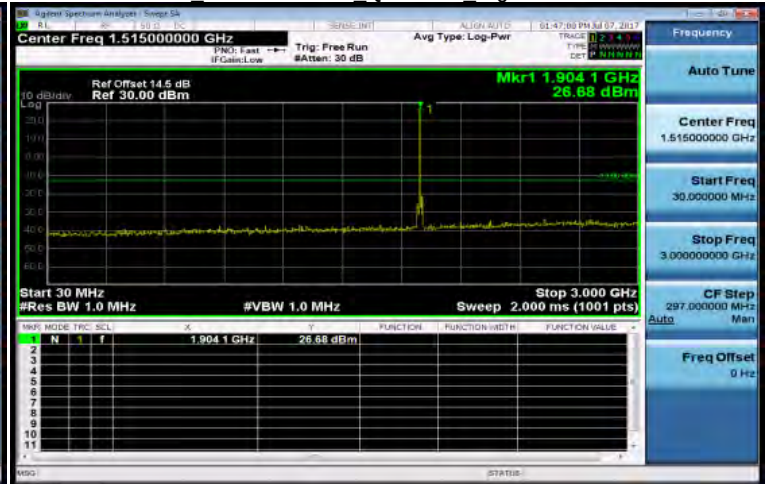
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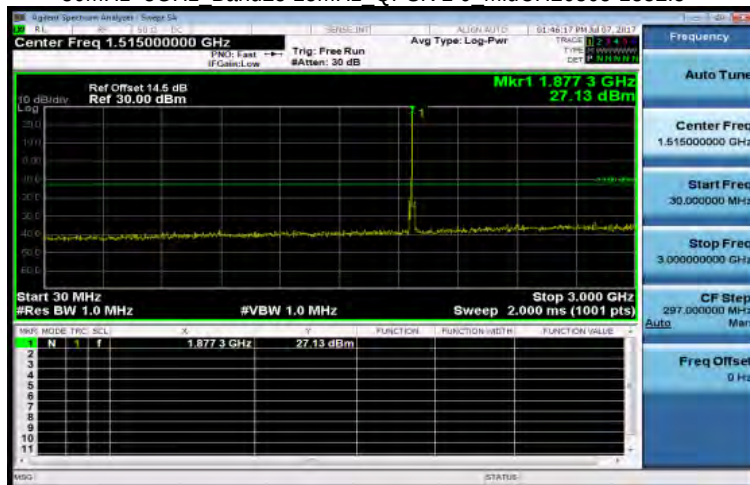
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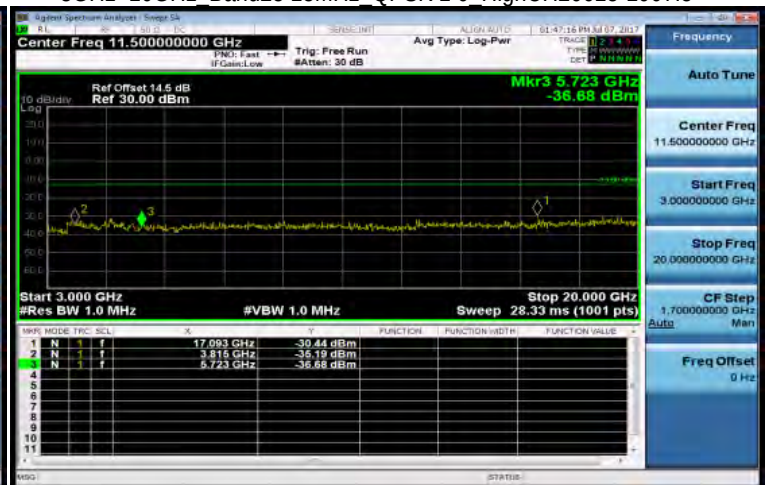
30MHz~3GHz Band25 15MHz QPSK 1 0 HighCH26615-1907.5



30MHz~3GHz Band25 15MHz QPSK 1 0 MidCH26365-1882.5



3GHz~10GHz Band25 15MHz QPSK 1 0 HighCH26615-1907.5

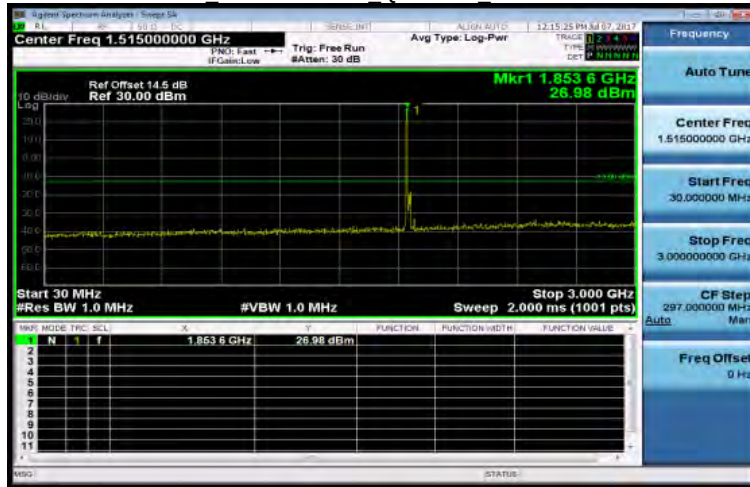


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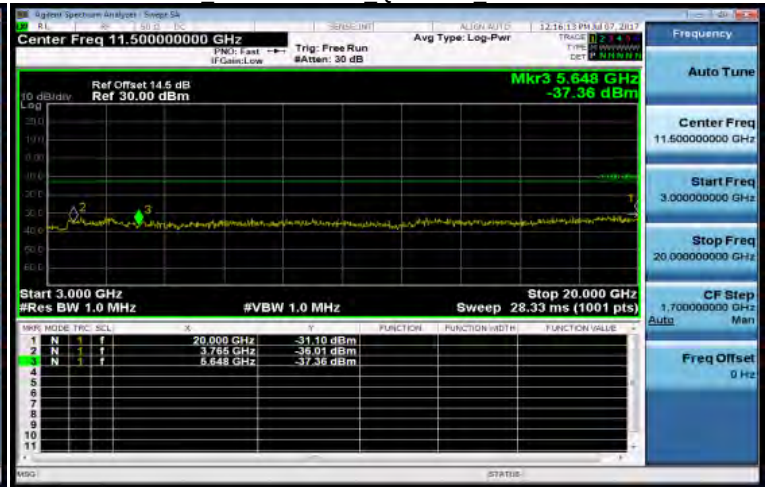
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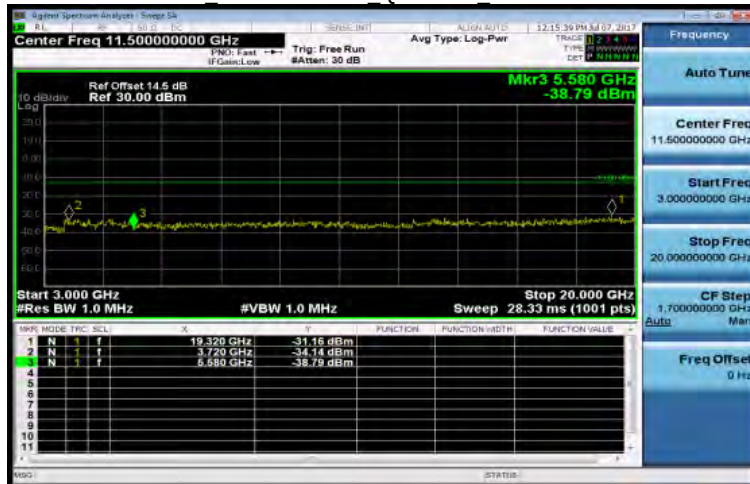
30MHz~3GHz Band25 20MHz QPSK 1 0 LowCH26140-1860



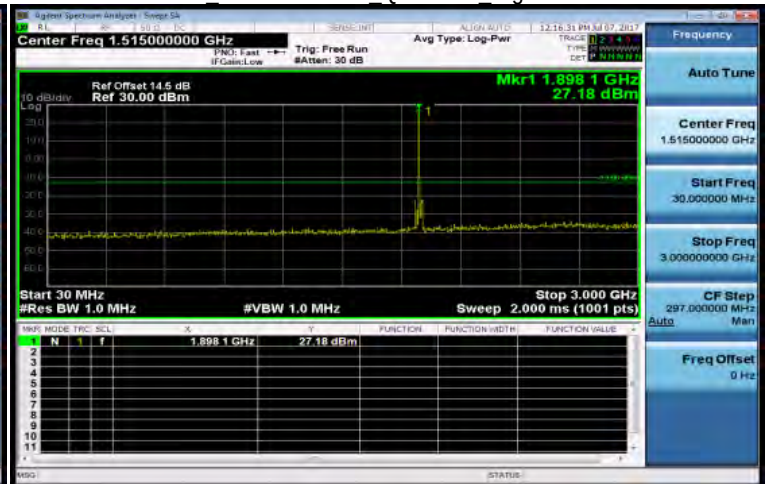
3GHz~10GHz Band25 20MHz QPSK 1 0 MidCH26365-1882.5



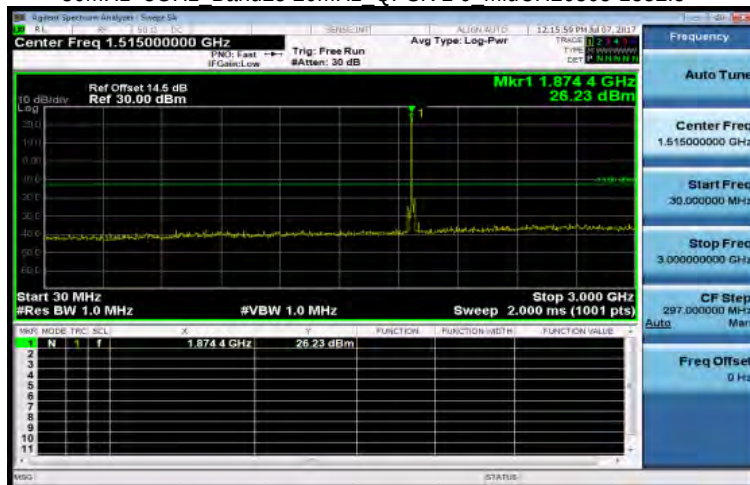
3GHz~10GHz Band25 20MHz QPSK 1 0 LowCH26140-1860



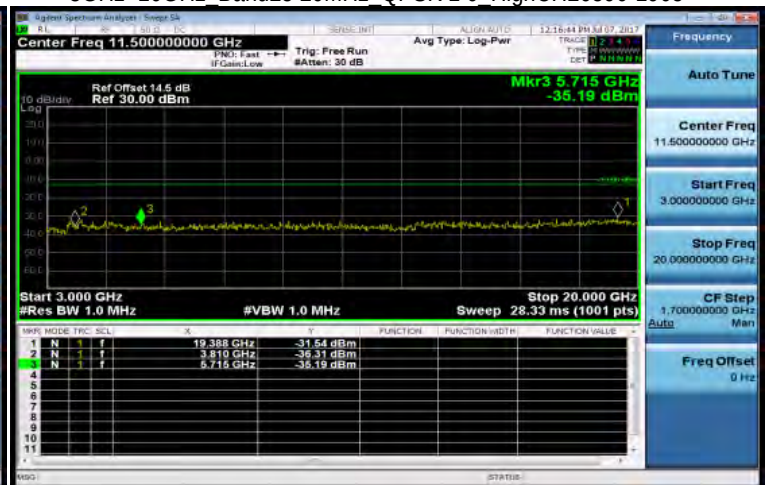
30MHz~3GHz Band25 20MHz QPSK 1 0 HighCH26590-1905



30MHz~3GHz Band25 20MHz QPSK 1 0 MidCH26365-1882.5



3GHz~10GHz Band25 20MHz QPSK 1 0 HighCH26590-1905

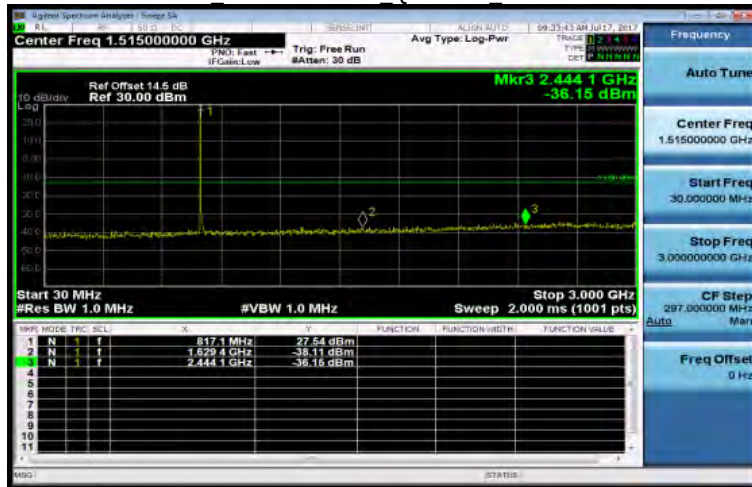


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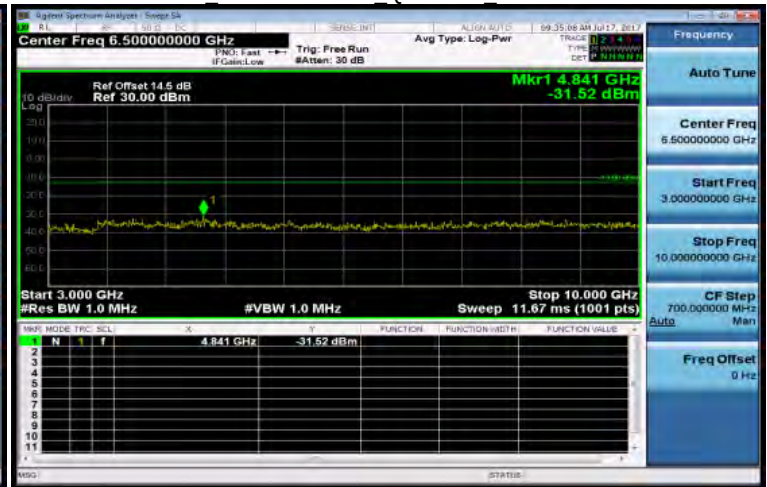
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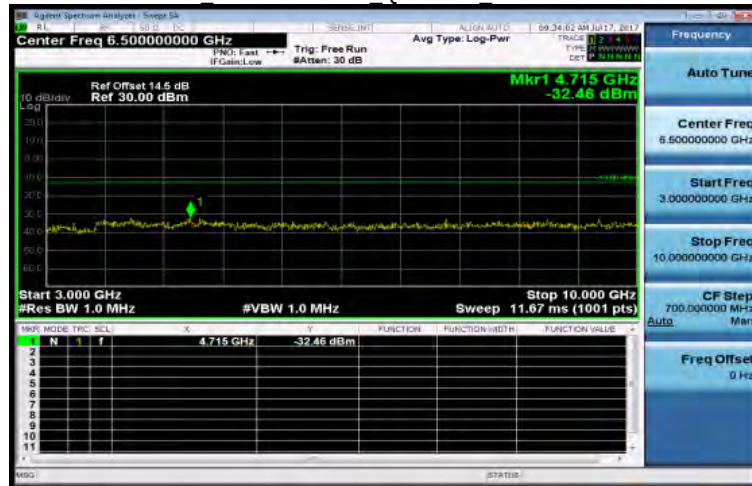
30MHz~3GHz Band26 1.4MHz QPSK 10 LowCH26697-814.7



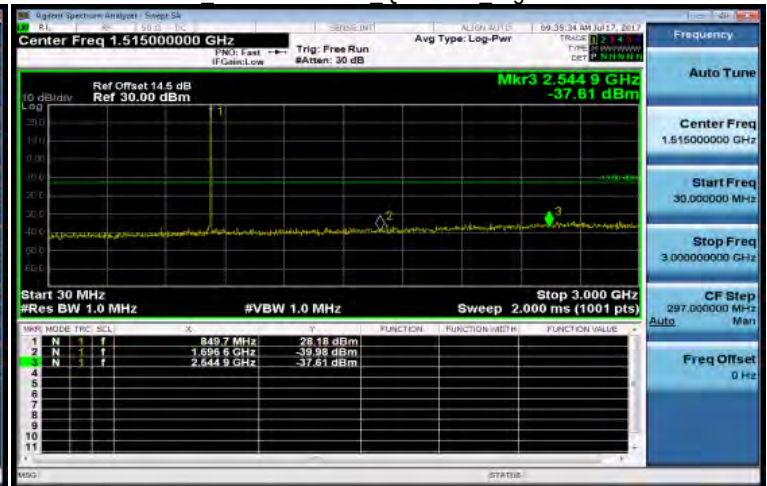
3GHz~10GHz Band26 1.4MHz QPSK 10 MidCH26865-831.5



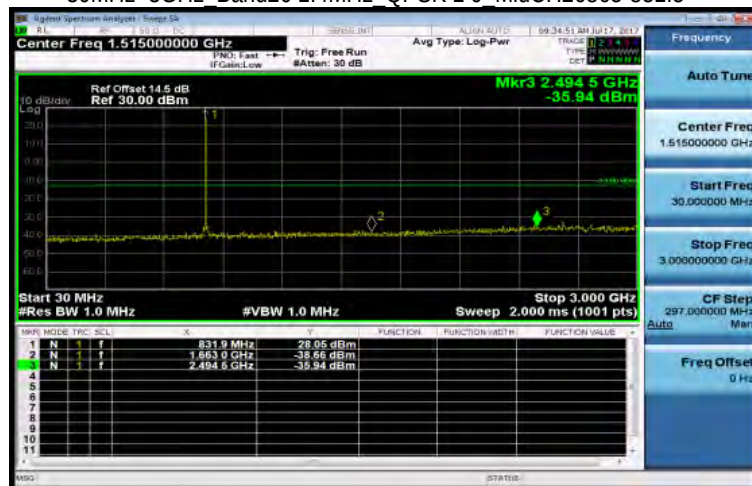
3GHz~10GHz Band26 1.4MHz QPSK 10 LowCH26697-814.7



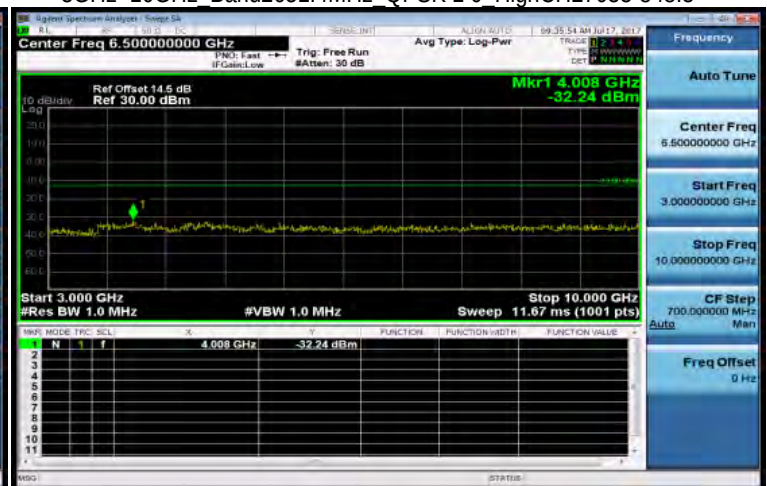
30MHz~3GHz Band26 1.4MHz QPSK 10 HighCH27033-848.3



30MHz~3GHz Band26 1.4MHz QPSK 10 MidCH26865-831.5



3GHz~10GHz Band26 1.4MHz QPSK 10 HighCH27033-848.3

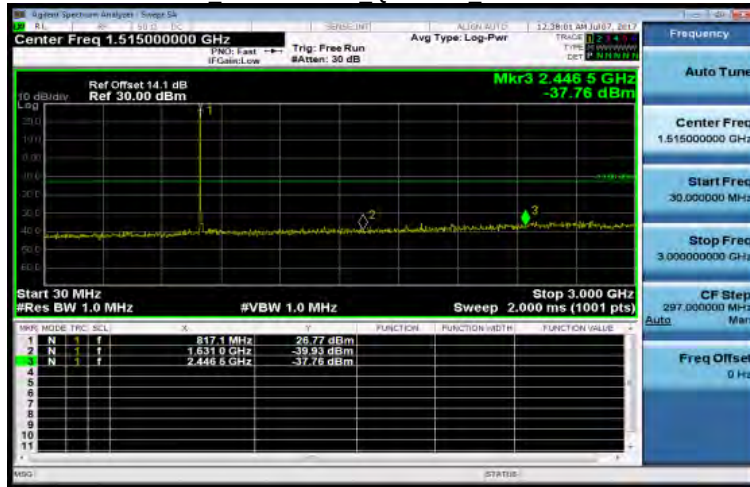


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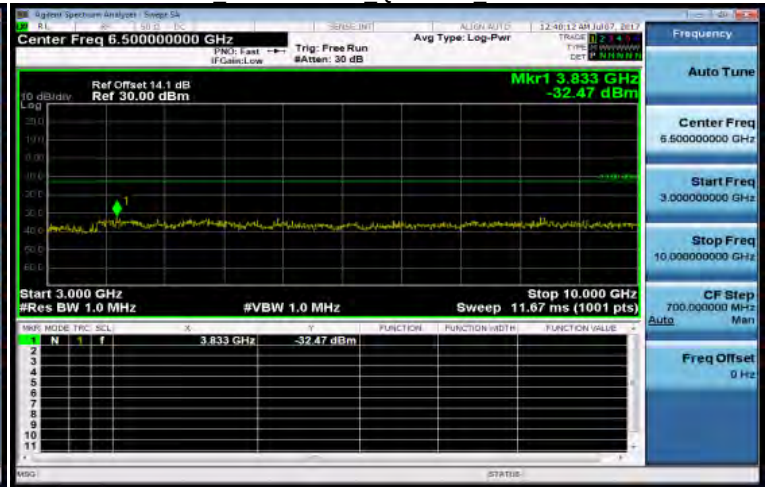
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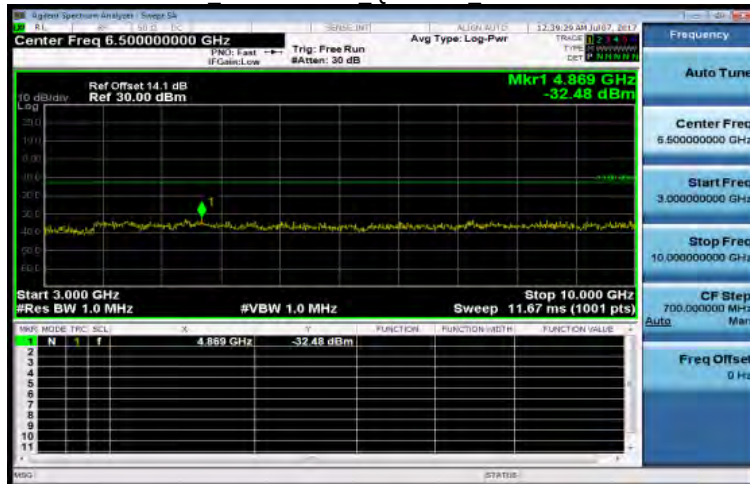
30MHz~3GHz Band26 3MHz QPSK 1 0 LowCH26705-815.5



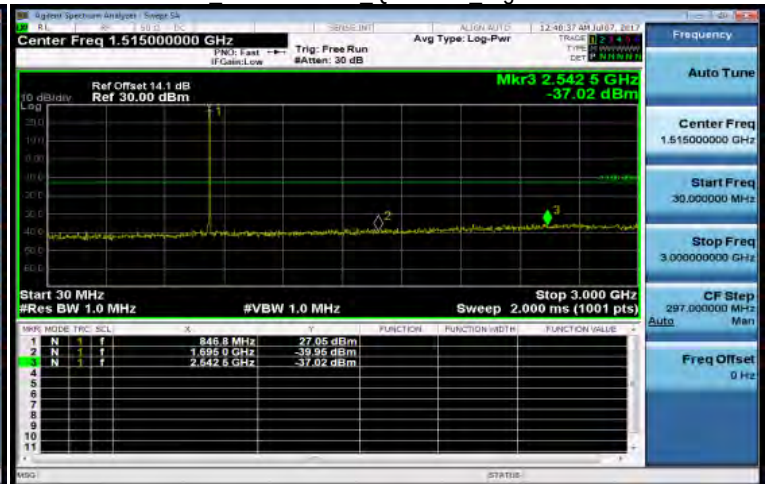
3GHz~10GHz Band26 3MHz QPSK 1 0 MidCH26865-831.5



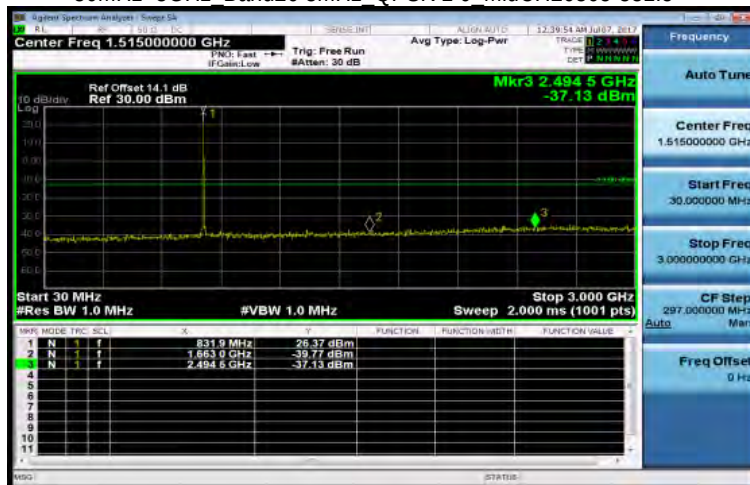
3GHz~10GHz Band26 3MHz QPSK 1 0 LowCH26705-815.5



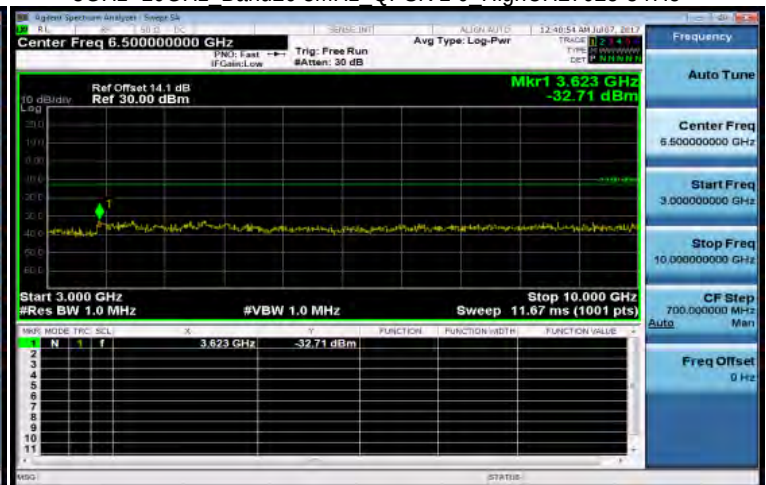
30MHz~3GHz Band26 3MHz QPSK 1 0 HighCH27025-847.5



30MHz~3GHz Band26 3MHz QPSK 1 0 MidCH26865-831.5



3GHz~10GHz Band26 3MHz QPSK 1 0 HighCH27025-847.5

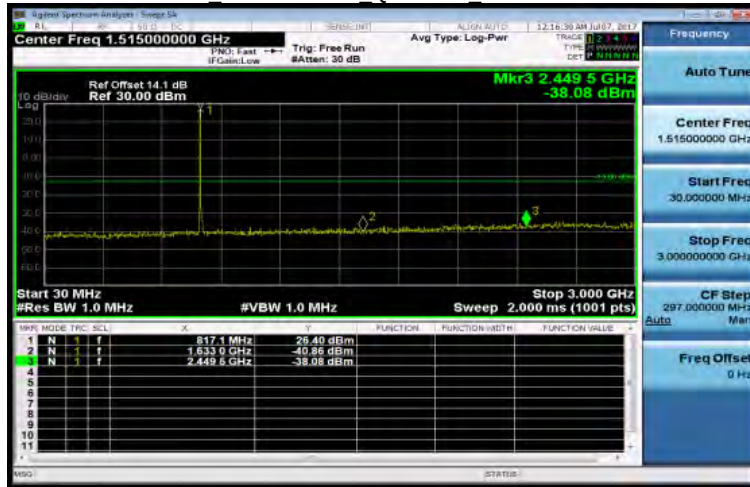


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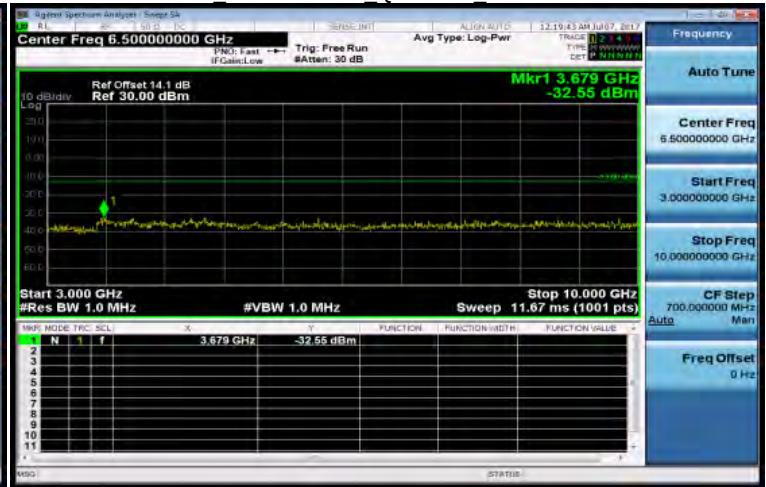
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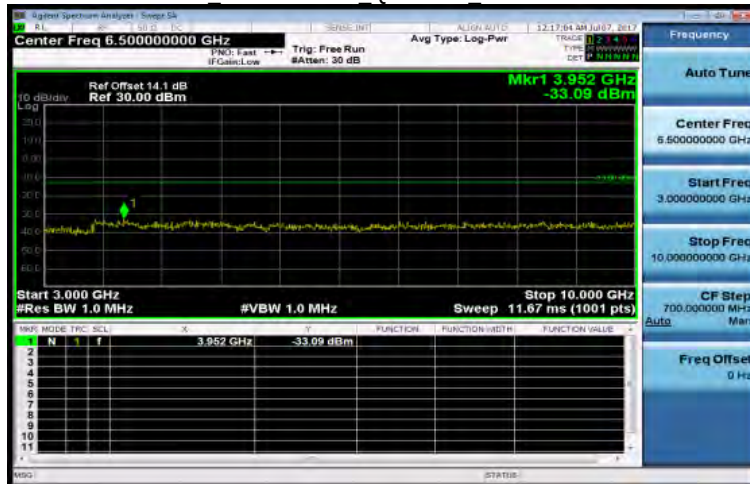
30MHz~3GHz Band26 5MHz QPSK 1 0 LowCH26715-816.5



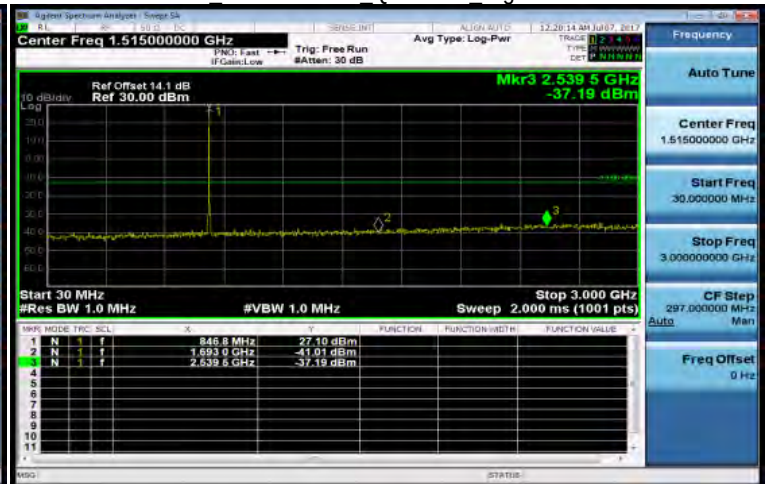
3GHz~10GHz Band26 5MHz QPSK 1 0 MidCH26865-831.5



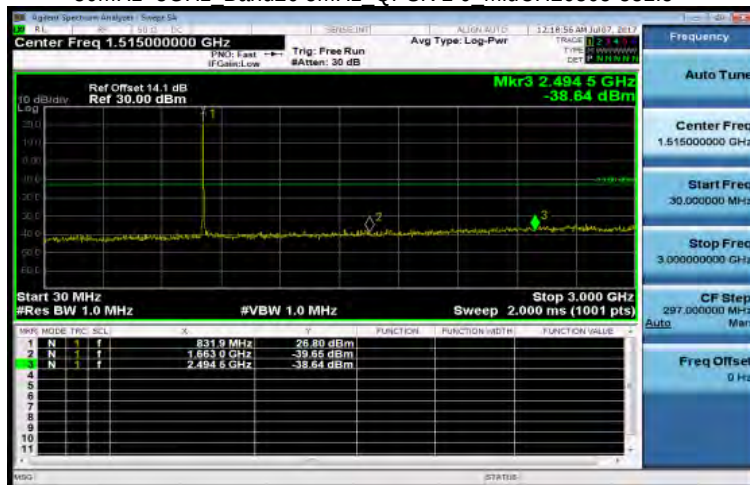
3GHz~10GHz Band26 5MHz QPSK 1 0 LowCH26715-816.5



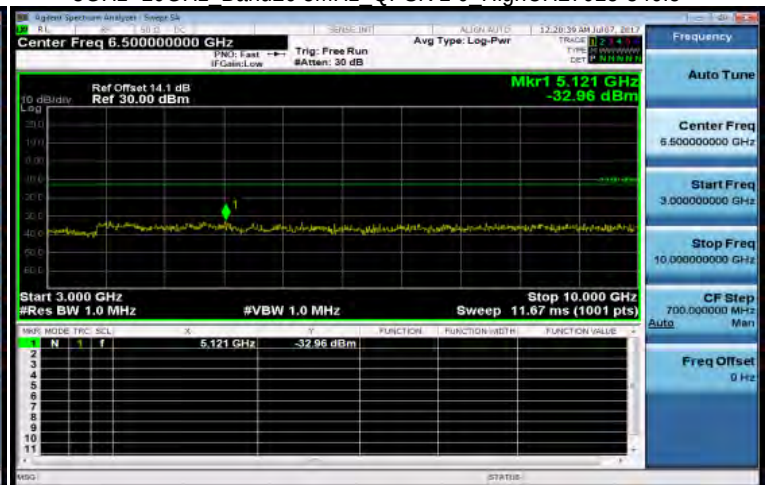
30MHz~3GHz Band26 5MHz QPSK 1 0 HighCH27015-846.5



30MHz~3GHz Band26 5MHz QPSK 1 0 MidCH26865-831.5



3GHz~10GHz Band26 5MHz QPSK 1 0 HighCH27015-846.5

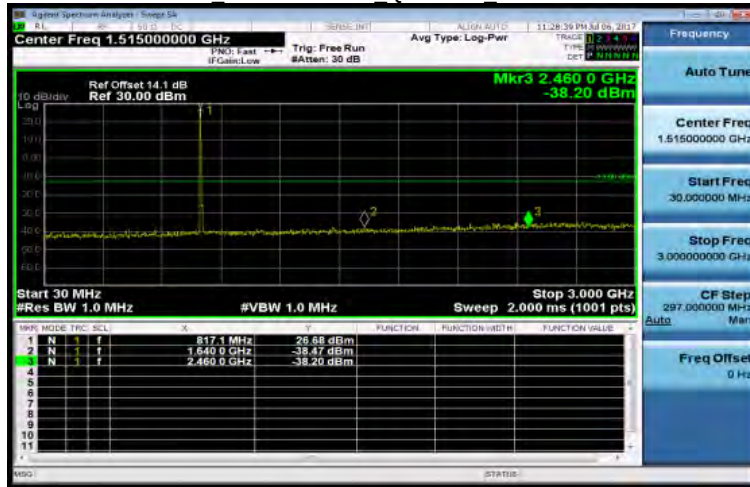


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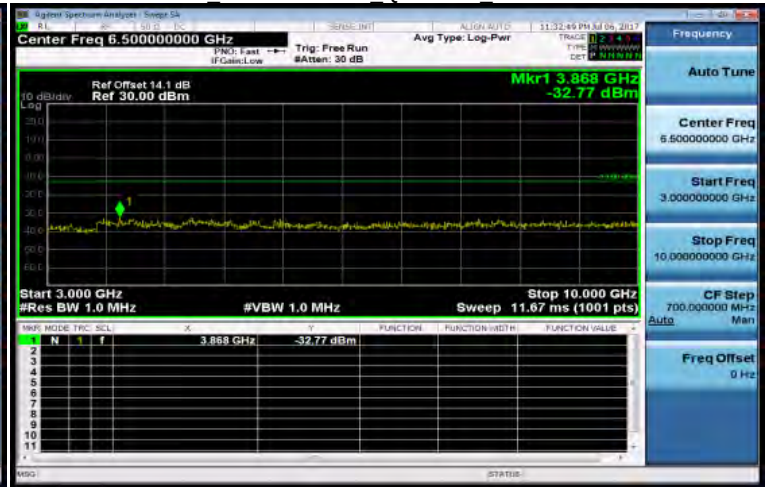
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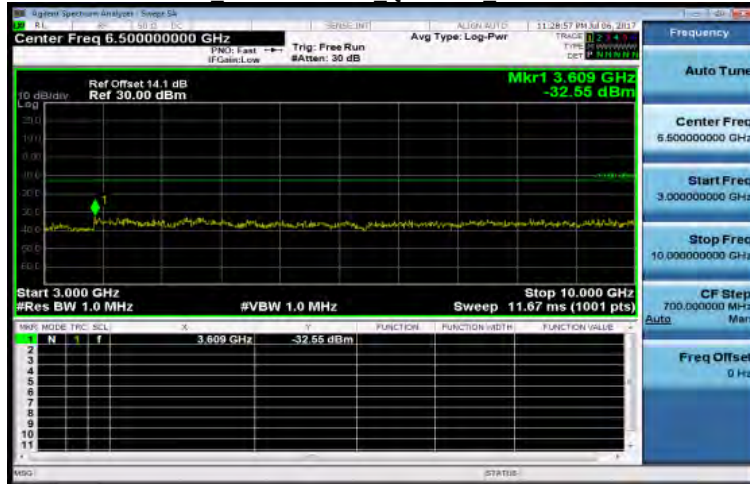
30MHz~3GHz Band26 10MHz QPSK 10 LowCH26750-820



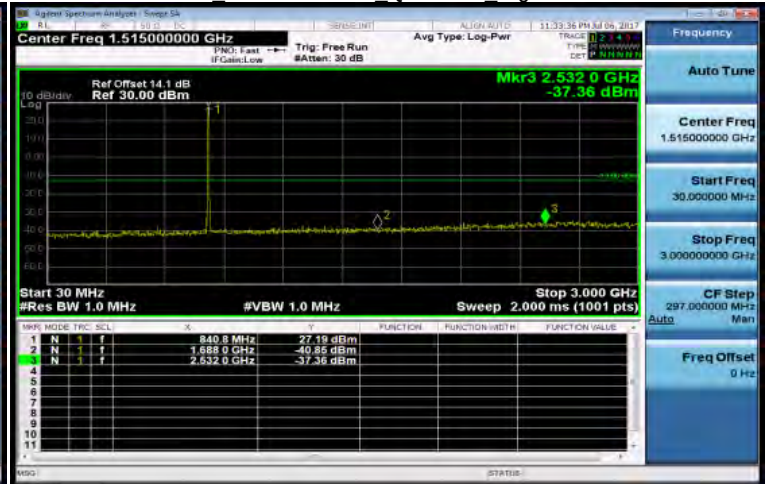
3GHz~10GHz Band26 10MHz QPSK 10 MidCH26865-831.5



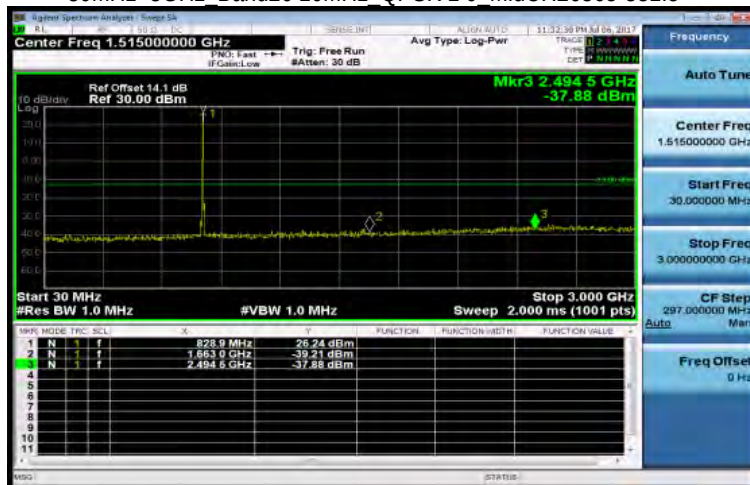
3GHz~10GHz Band26 10MHz QPSK 10 LowCH26750-820



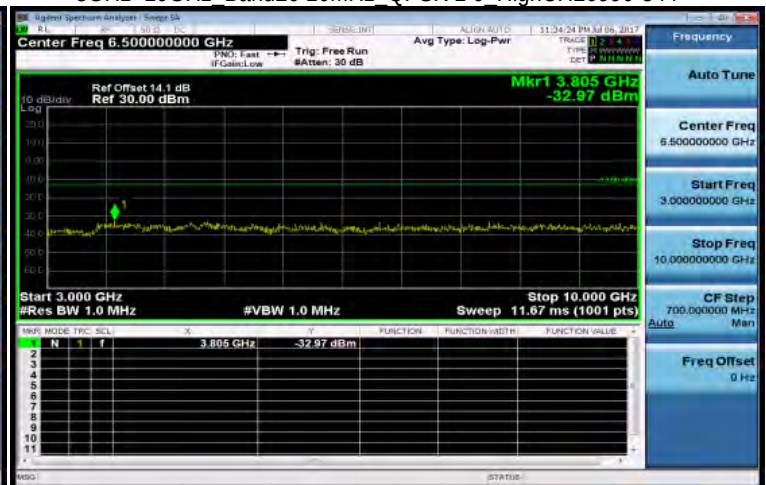
30MHz~3GHz Band26 10MHz QPSK 10 HighCH26990-844



30MHz~3GHz Band26 10MHz QPSK 10 MidCH26865-831.5



3GHz~10GHz Band26 10MHz QPSK 10 HighCH26990-844

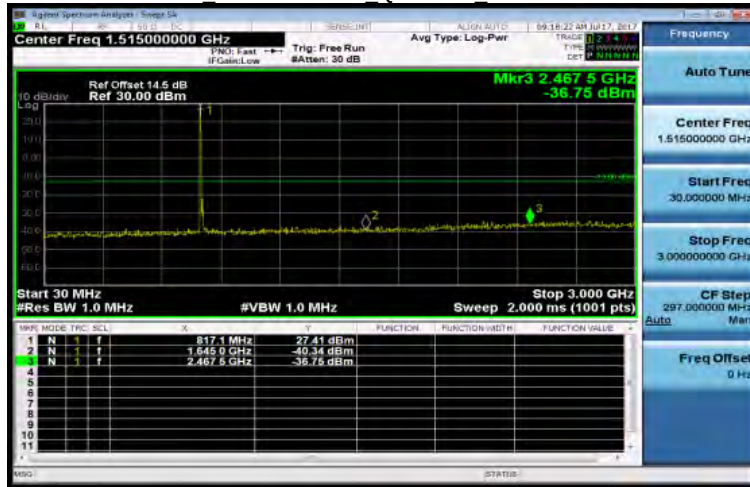


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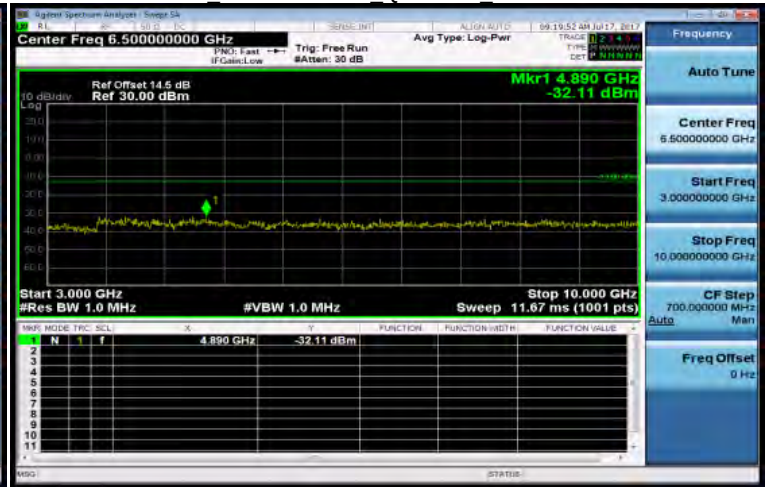
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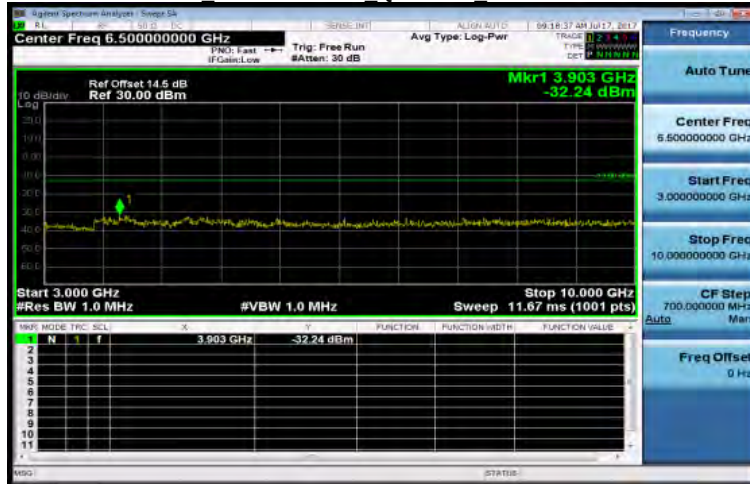
30MHz~3GHz Band26 15MHz QPSK 1 0 LowCH26825-822.5



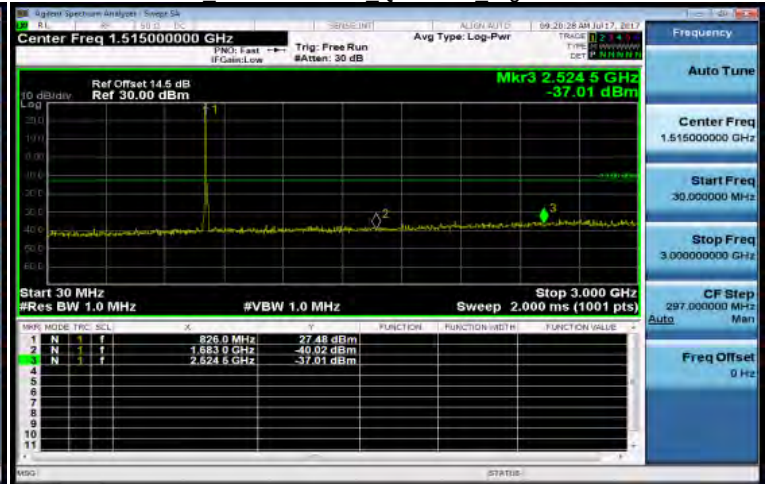
3GHz~10GHz Band26 15MHz QPSK 1 0 MidCH26865-831.5



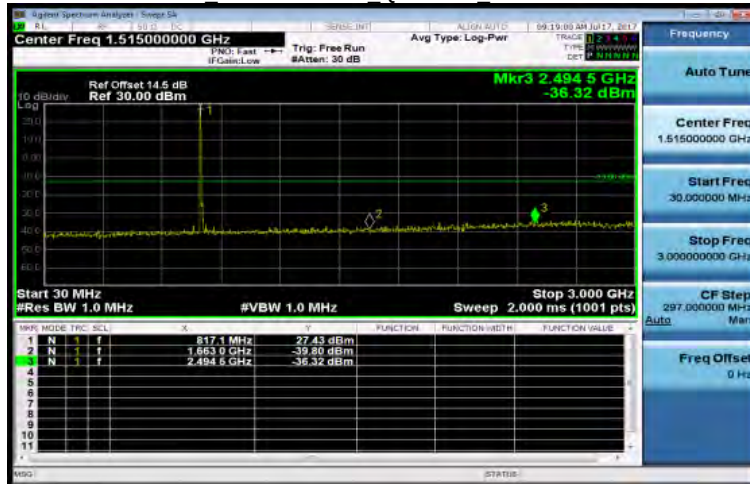
3GHz~10GHz Band26 15MHz QPSK 1 0 LowCH26825-822.5



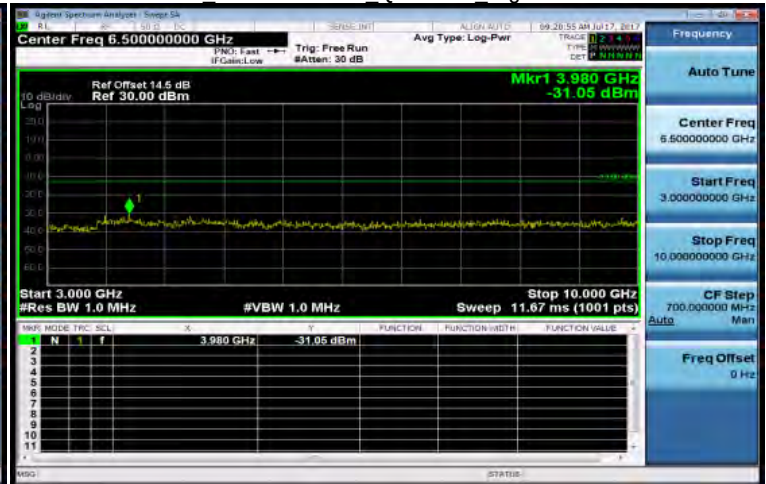
30MHz~3GHz Band26 15MHz QPSK 1 0 HighCH26965-841.5



30MHz~3GHz Band26 15MHz QPSK 1 0 MidCH26865-831.5



3GHz~10GHz Band26 15MHz QPSK 1 0 HighCH26965-841.5



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30MHz~3GHz Band26 for Part 90S 1.4MHz QPSK 1 0 LowCH26697



3GHz~10GHz Band26 for Part 90S 1.4MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 for Part 90S 1.4MHz QPSK 1 0 LowCH26697



30MHz~3GHz Band26 for Part 90S 1.4MHz QPSK 1 0 HighCH26783



30MHz~3GHz Band26 1.4MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 for Part 90S 1.4MHz QPSK 1 0 HighCH26783



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30MHz~3GHz Band26 for Part 90S 3MHz_QPSK 1.0_LowCH26705



3GHz~10GHz Band26 for Part 90S 3MHz_QPSK 1.0_MidCH24740



3GHz~10GHz Band26 for Part 90S 3MHz_QPSK 1.0_LowCH26705



30MHz~3GHz Band26 for Part 90S 3MHz_QPSK 1.0_HighCH26775



30MHz~3GHz Band26 for Part 90S 3MHz_QPSK 1.0_MidCH24740



3GHz~10GHz Band26 for Part 90S 3MHz_QPSK 1.0_HighCH26775



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30MHz~3GHz Band26 for Part 90S 5MHz QPSK 1.0 LowCH26715



3GHz~10GHz Band26 for Part 90S 5MHz QPSK 1.0 MidCH26740



3GHz~10GHz Band26 for Part 90S 5MHz QPSK 1.0 LowCH26715



30MHz~3GHz Band26 for Part 90S 5MHz QPSK 1.0 HighCH26765



30MHz~3GHz Band26 for Part 90S 5MHz QPSK 1.0 MidCH26740



3GHz~10GHz Band26 for Part 90S 5MHz QPSK 1.0 HighCH26765



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30MHz~3GHz Band26 for Part 90S 10MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 for Part 90S 10MHz QPSK 1 0 MidCH26740



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30MHz~3GHz Band30 5MHz QPSK 1 0 LowCH27685-2307.5



3GHz~10GHz Band30 5MHz QPSK 1 0 MidCH27710-2310



3GHz~10GHz Band30 5MHz QPSK 1 0 LowCH27685-2307.5



30MHz~3GHz Band30 5MHz QPSK 1 0 HighCH27735-2312.5



30MHz~3GHz Band30 5MHz QPSK 1 0 MidCH27710-2310



3GHz~10GHz Band30 5MHz QPSK 1 0 HighCH27735-2312.5



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30MHz~3GHz Band30 10MHz QPSK 1 0 MidCH27710-2310



3GHz~10GHz Band30 10MHz QPSK 1 0 MidCH27710-2310



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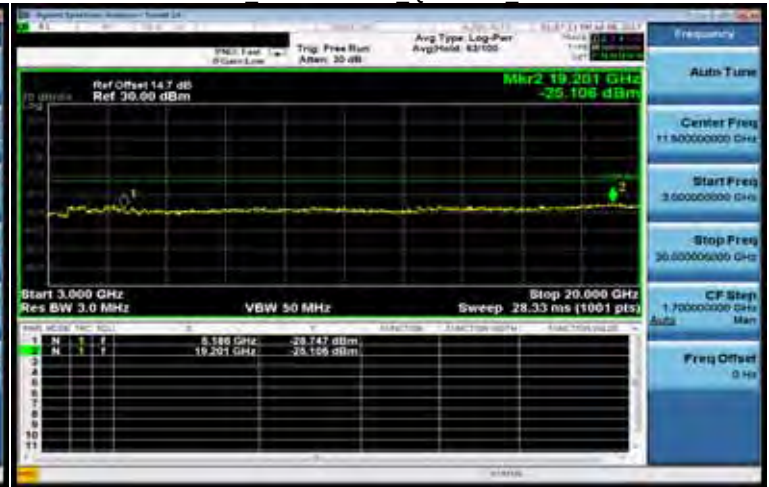
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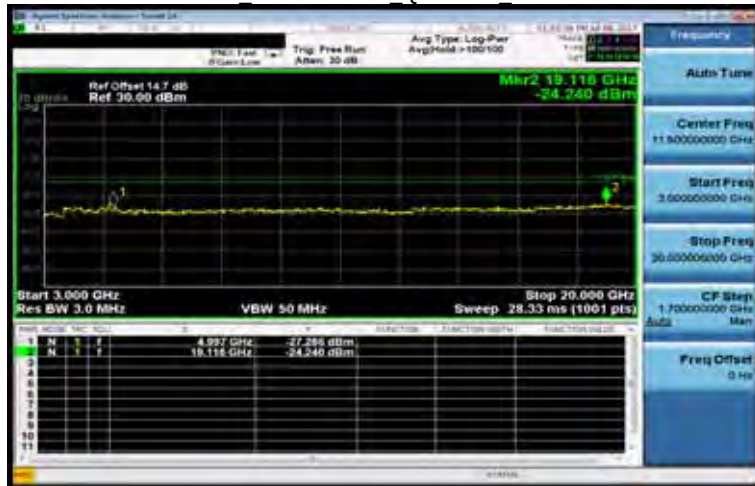
30MHz~3GHz Band41 5MHz QPSK 1 0 LowCH39675



3GHz~10GHz Band41 5MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 5MHz QPSK 1 0 LowCH39675



30MHz~3GHz Band41 5MHz QPSK 1 0 HighCH41565



30MHz~3GHz Band41 5MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 5MHz QPSK 1 0 HighCH41565



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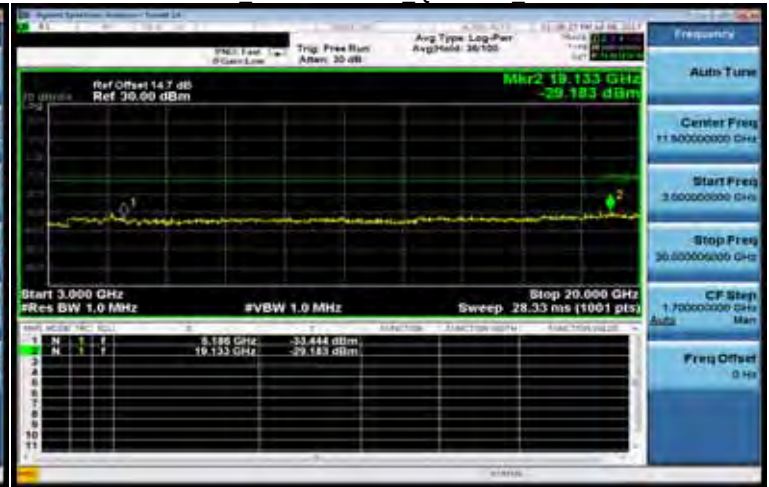
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30MHz~3GHz Band41 10MHz QPSK 1 0 LowCH39700



3GHz~10GHz Band41 10MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 10MHz QPSK 1 0 LowCH39700



30MHz~3GHz Band41 10MHz QPSK 1 0 HighCH41540



30MHz~3GHz Band41 10MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 10MHz QPSK 1 0 HighCH41540



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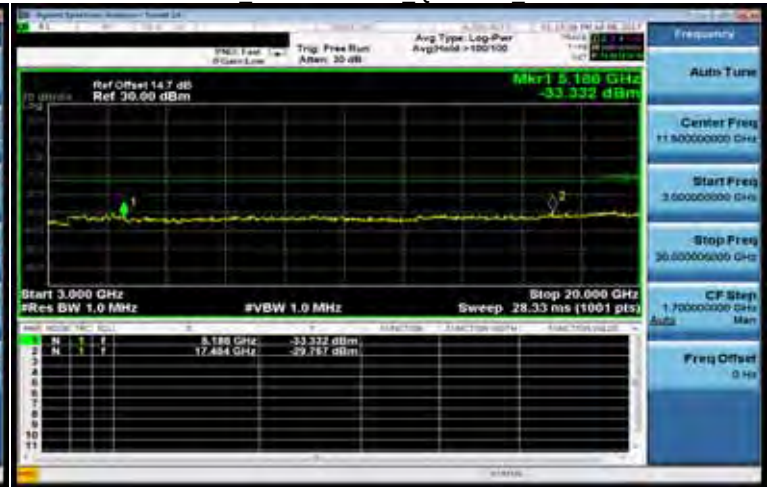
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30MHz~3GHz Band41 15MHz QPSK 1 0 LowCH39725



3GHz~10GHz Band41 15MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 15MHz QPSK 1 0 LowCH39725



30MHz~3GHz Band41 15MHz QPSK 1 0 HighCH41515



30MHz~3GHz Band41 15MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 15MHz QPSK 1 0 HighCH41515



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30MHz~3GHz Band41 20MHz QPSK 1 0 LowCH39750



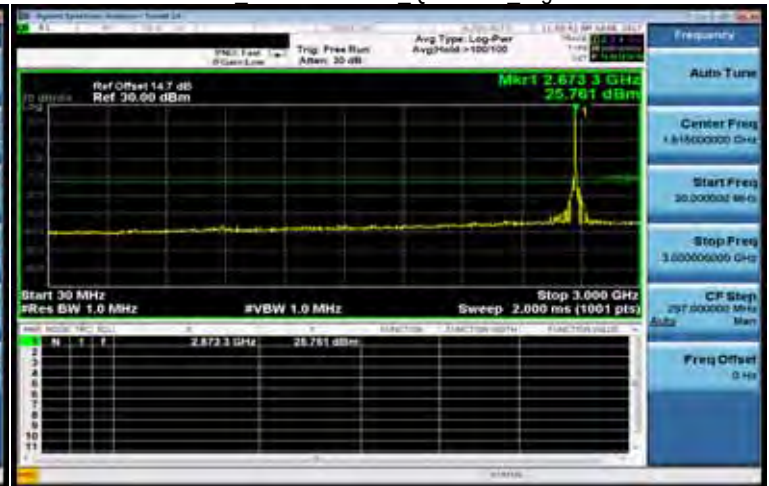
3GHz~10GHz Band41 20MHz QPSK 1 0 MidCH40620



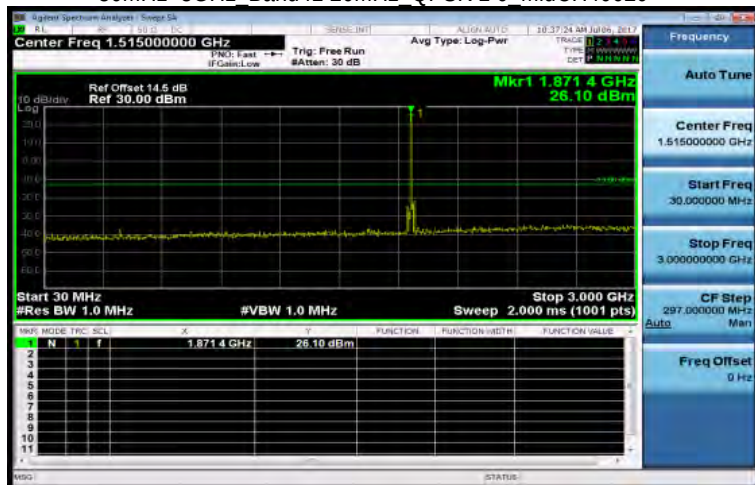
3GHz~10GHz Band41 20MHz QPSK 1 0 LowCH39750



30MHz~3GHz Band41 20MHz QPSK 1 0 HighCH41490



30MHz~3GHz Band41 20MHz QPSK 1 0 MidCH40620



3GHz~10GHz Band41 20MHz QPSK 1 0 HighCH41490



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53 (h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log$ (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log$ (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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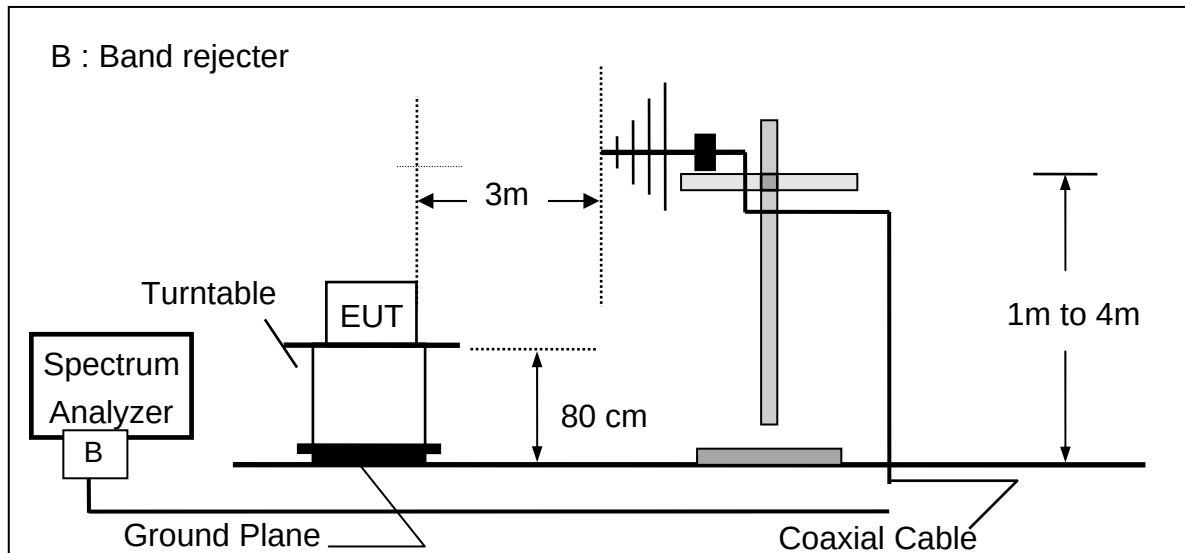
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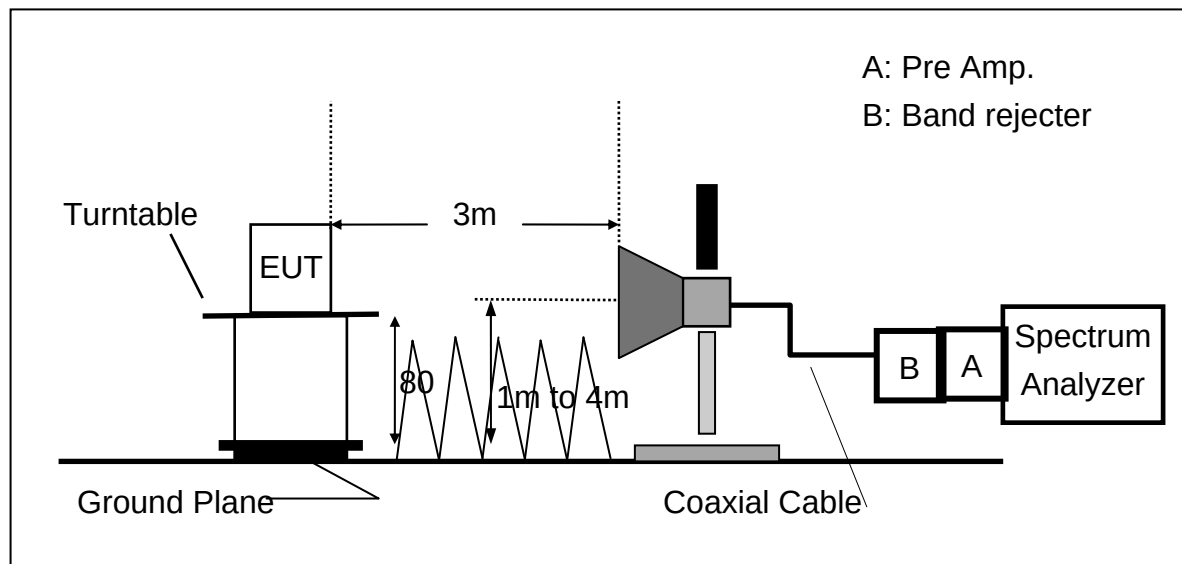
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$ERP\ (dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

$EIRP\ (dBm) = SG\ Level(dBm) + Antenna\ Gain(dBi) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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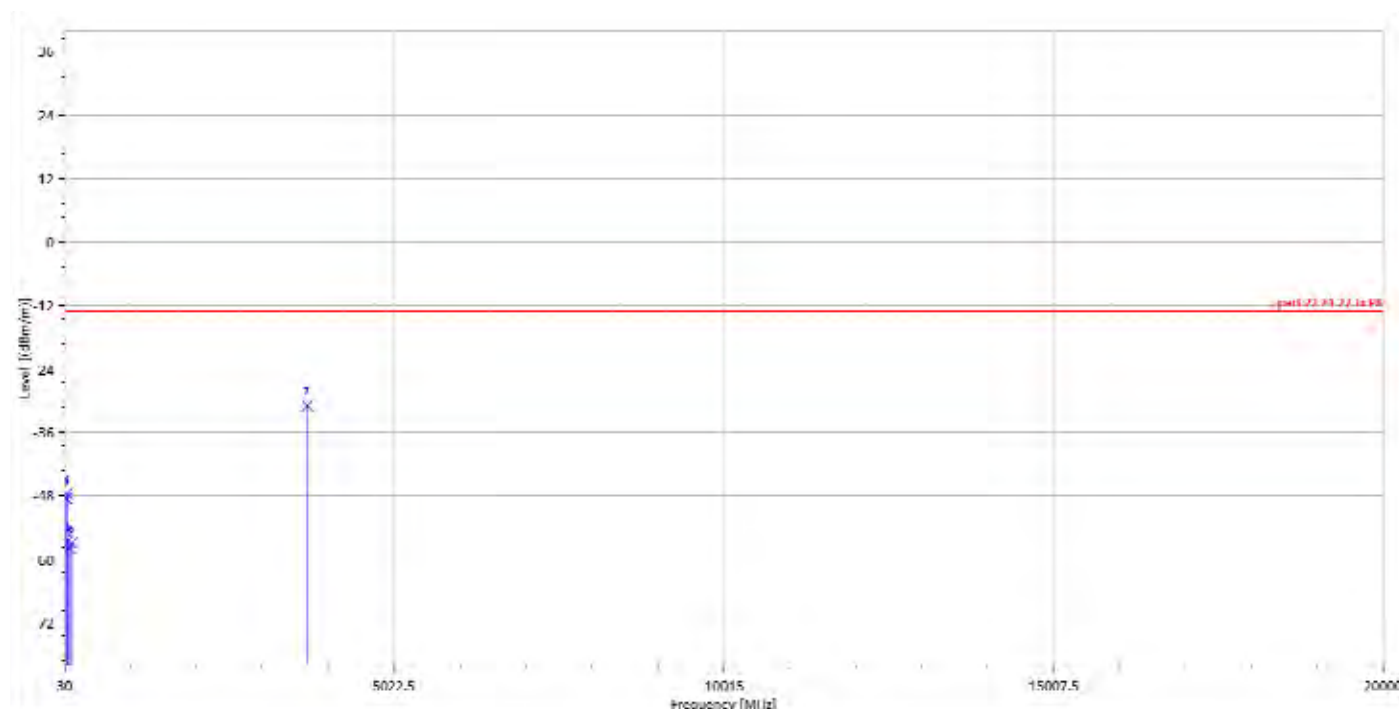
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode :	WCDMA B2	Test Date :	2017/7/5
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
35.82	S	-48.39	-32.42	-15.24	-0.73	-13.01	-35.38
60.07	S	-48.48	-46.68	-0.92	-0.89	-13.01	-35.47
63.95	S	-47.55	-46.22	-0.40	-0.93	-13.01	-34.54
72.68	S	-56.58	-56.06	0.48	-1.01	-13.01	-43.57
98.87	S	-57.80	-55.85	-0.79	-1.16	-13.01	-44.79
138.64	S	-56.87	-56.49	0.96	-1.34	-13.01	-43.86
3709.00	H	-30.92	-36.09	12.30	-7.13	-13.01	-17.91

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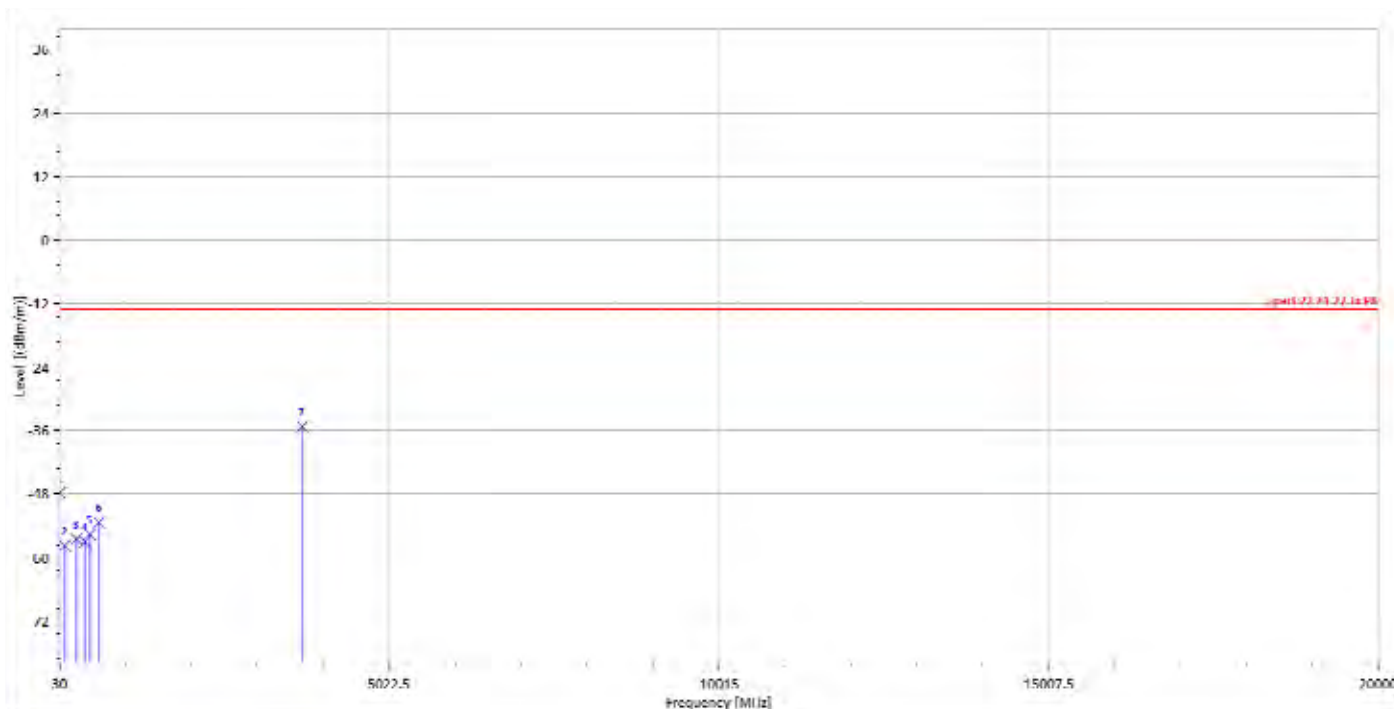
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Operation Mode : WCDMA B2 Test Date : 2017/7/5
Fundamental Frequency : 1852.4 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
32.91	S	-47.79	-29.40	-17.72	-0.67	-13.01	-34.78
112.45	S	-57.70	-55.32	-1.15	-1.23	-13.01	-44.69
288.99	S	-56.45	-60.30	5.85	-1.99	-13.01	-43.44
422.85	S	-57.04	-60.77	5.99	-2.26	-13.01	-44.03
496.57	S	-55.55	-59.42	6.38	-2.50	-13.01	-42.54
634.31	S	-53.29	-57.14	7.01	-3.16	-13.01	-40.28
3709.00	H	-35.29	-40.46	12.30	-7.13	-13.01	-22.28

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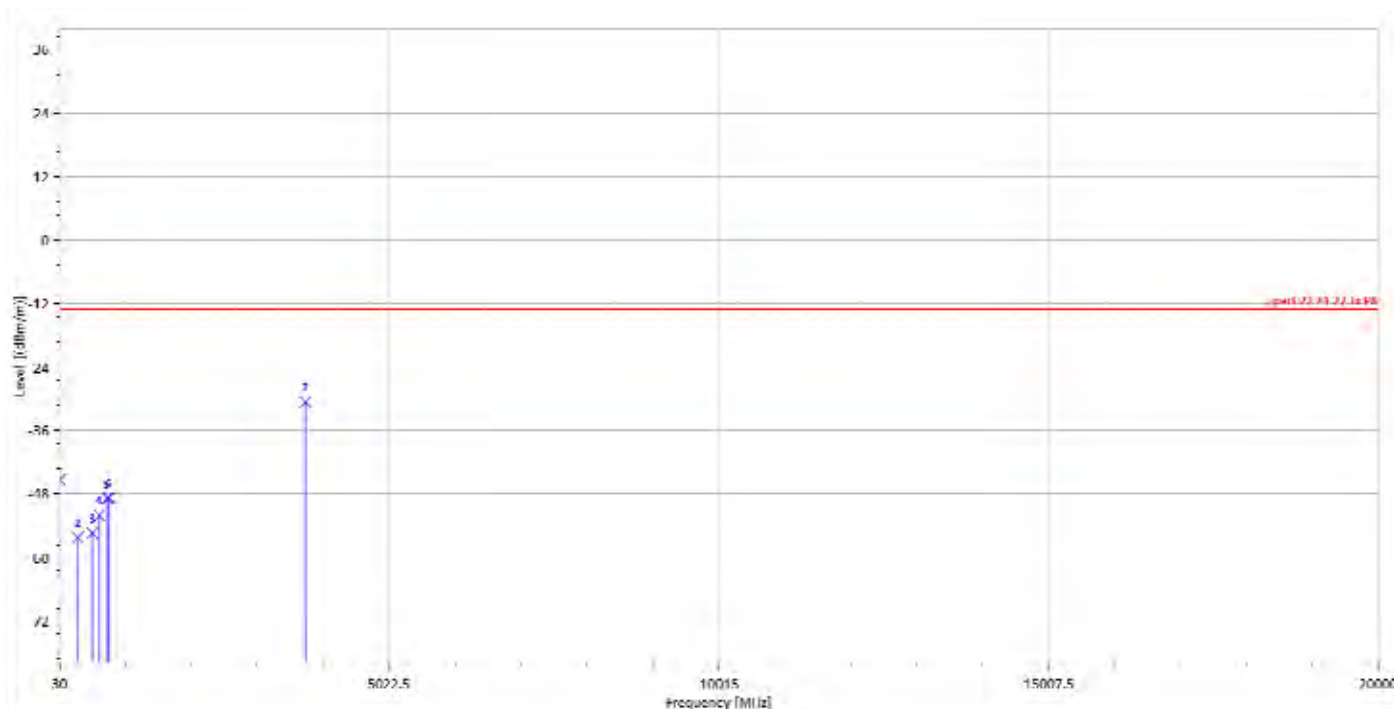
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Operation Mode : WCDMA B2 Test Date : 2017/7/5
Fundamental Frequency : 1880 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
35.82	S	-45.28	-29.31	-15.24	-0.73	-13.01	-32.27
310.33	S	-56.13	-60.11	5.94	-1.96	-13.01	-43.12
534.40	S	-55.32	-59.16	6.41	-2.57	-13.01	-42.31
641.10	S	-52.02	-56.47	7.03	-2.59	-13.01	-39.01
762.35	S	-48.85	-53.28	7.63	-3.21	-13.01	-35.84
788.54	S	-48.71	-53.12	7.66	-3.25	-13.01	-35.70
3758.00	H	-30.63	-35.73	12.30	-7.20	-13.01	-17.62

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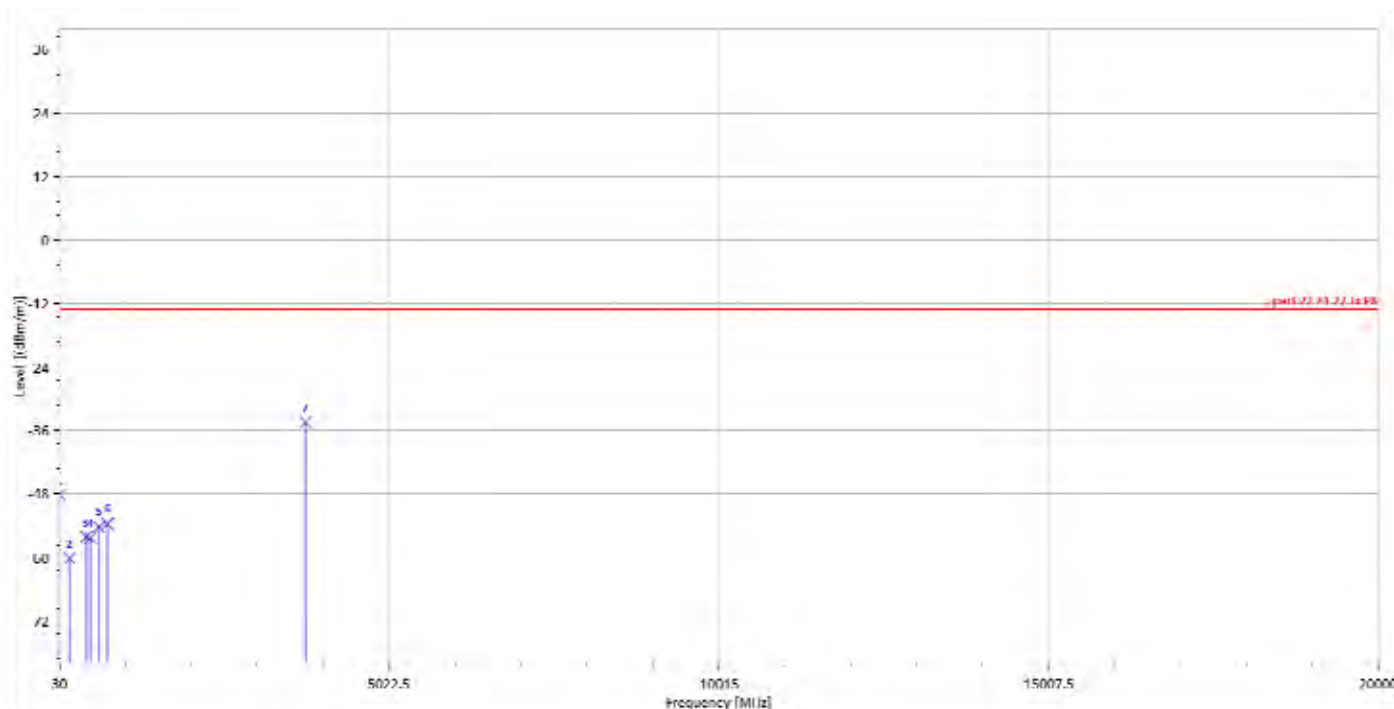
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Operation Mode : WCDMA B2 Test Date : 2017/7/5
Fundamental Frequency : 1880 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
33.88	S	-48.21	-30.65	-16.88	-0.68	-13.01	-35.20
185.20	S	-60.14	-64.46	5.96	-1.64	-13.01	-47.13
441.28	S	-56.04	-59.86	6.18	-2.37	-13.01	-43.03
504.33	S	-56.24	-60.04	6.39	-2.59	-13.01	-43.23
634.31	S	-54.14	-57.99	7.01	-3.16	-13.01	-41.13
766.23	S	-53.57	-58.18	7.63	-3.02	-13.01	-40.56
3758.00	H	-34.48	-39.58	12.30	-7.20	-13.01	-21.47

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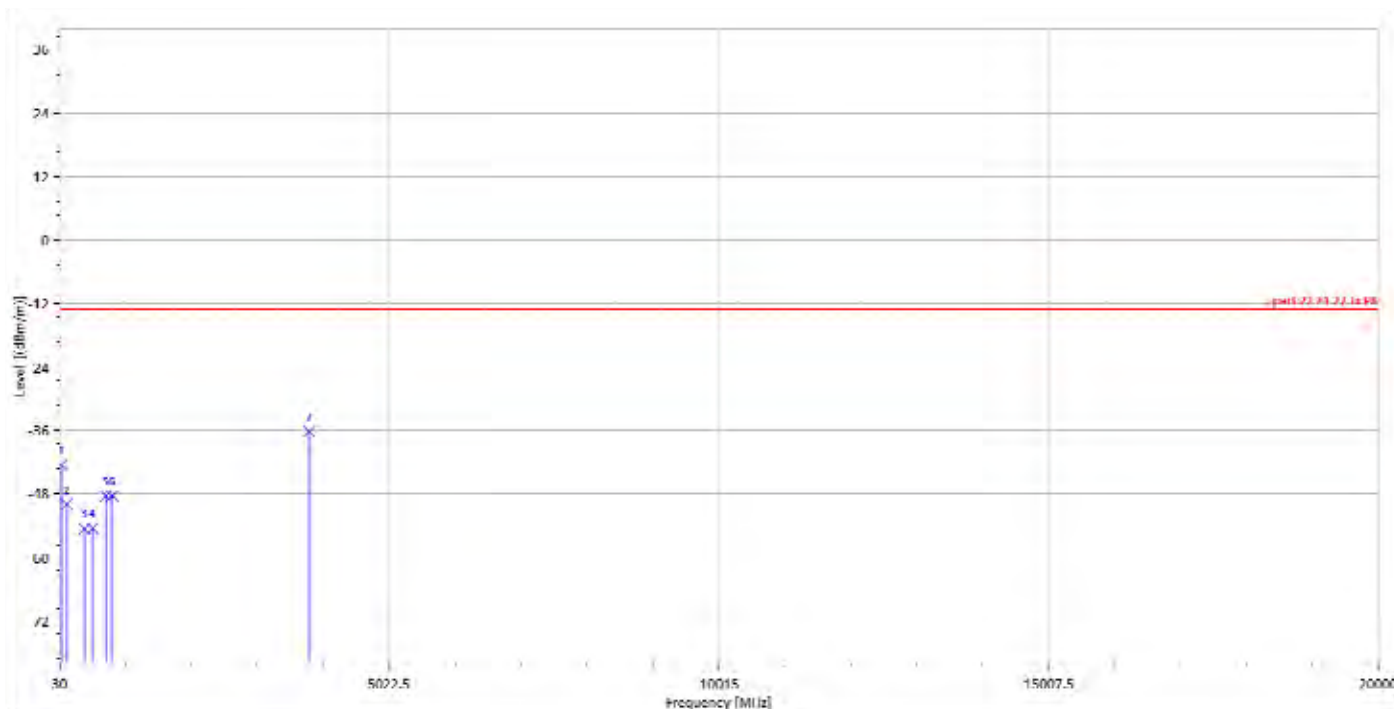
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Operation Mode : WCDMA B2 Test Date : 2017/7/5
Fundamental Frequency : 1907.6 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
61.04	S	-42.43	-40.69	-0.79	-0.95	-13.01	-29.42
141.55	S	-50.00	-49.99	1.35	-1.35	-13.01	-36.99
413.15	S	-54.51	-58.11	5.89	-2.29	-13.01	-41.50
538.28	S	-54.41	-58.25	6.41	-2.57	-13.01	-41.40
743.92	S	-48.38	-52.89	7.61	-3.11	-13.01	-35.37
829.28	S	-48.40	-52.86	7.63	-3.17	-13.01	-35.39
3814.00	H	-36.25	-41.30	12.30	-7.25	-13.01	-23.24

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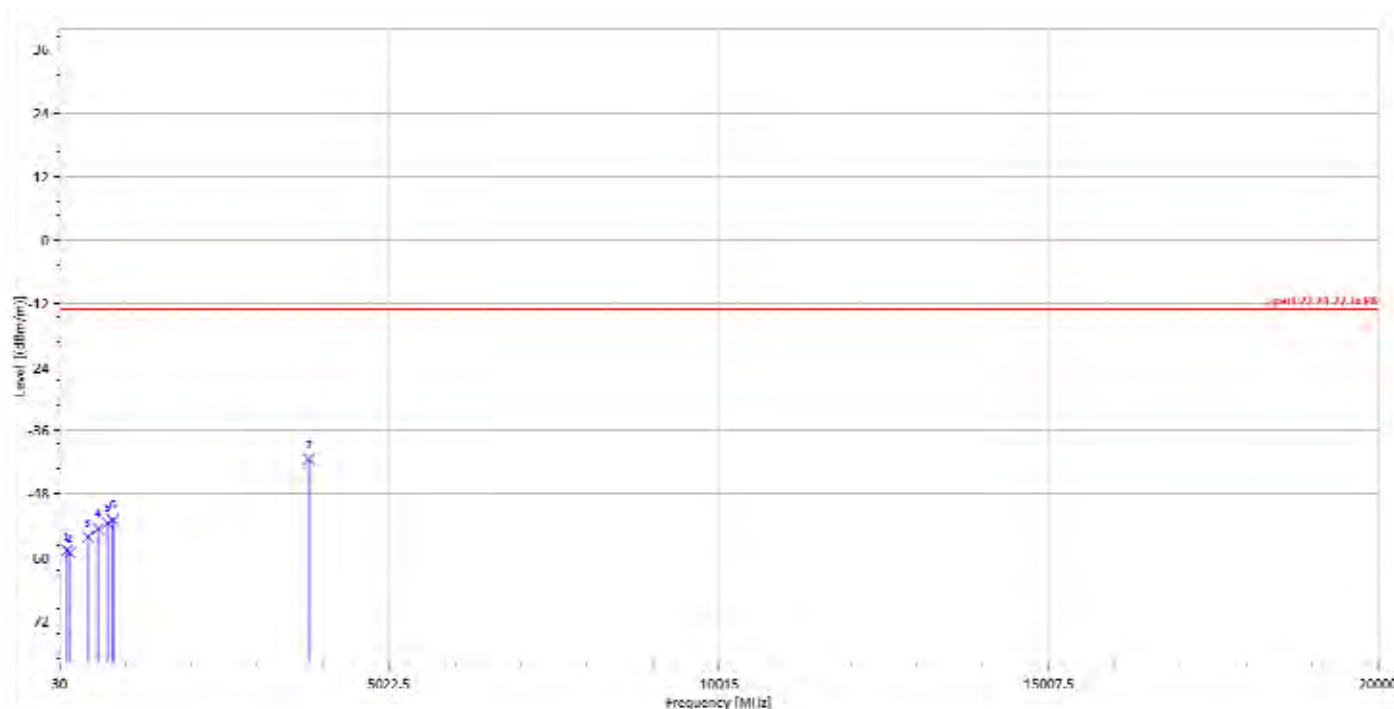
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Operation Mode : WCDMA B2 Test Date : 2017/7/5
Fundamental Frequency : 1907.6 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
144.46	S	-58.64	-58.90	1.76	-1.50	-13.01	-45.63
191.02	S	-59.06	-63.60	6.15	-1.62	-13.01	-46.05
468.44	S	-56.07	-59.73	6.32	-2.66	-13.01	-43.06
623.64	S	-54.42	-58.35	6.97	-3.04	-13.01	-41.41
767.20	S	-53.37	-57.80	7.63	-3.20	-13.01	-40.36
841.89	S	-52.86	-56.97	7.61	-3.50	-13.01	-39.85
3814.00	H	-41.34	-46.40	12.30	-7.25	-13.01	-28.33

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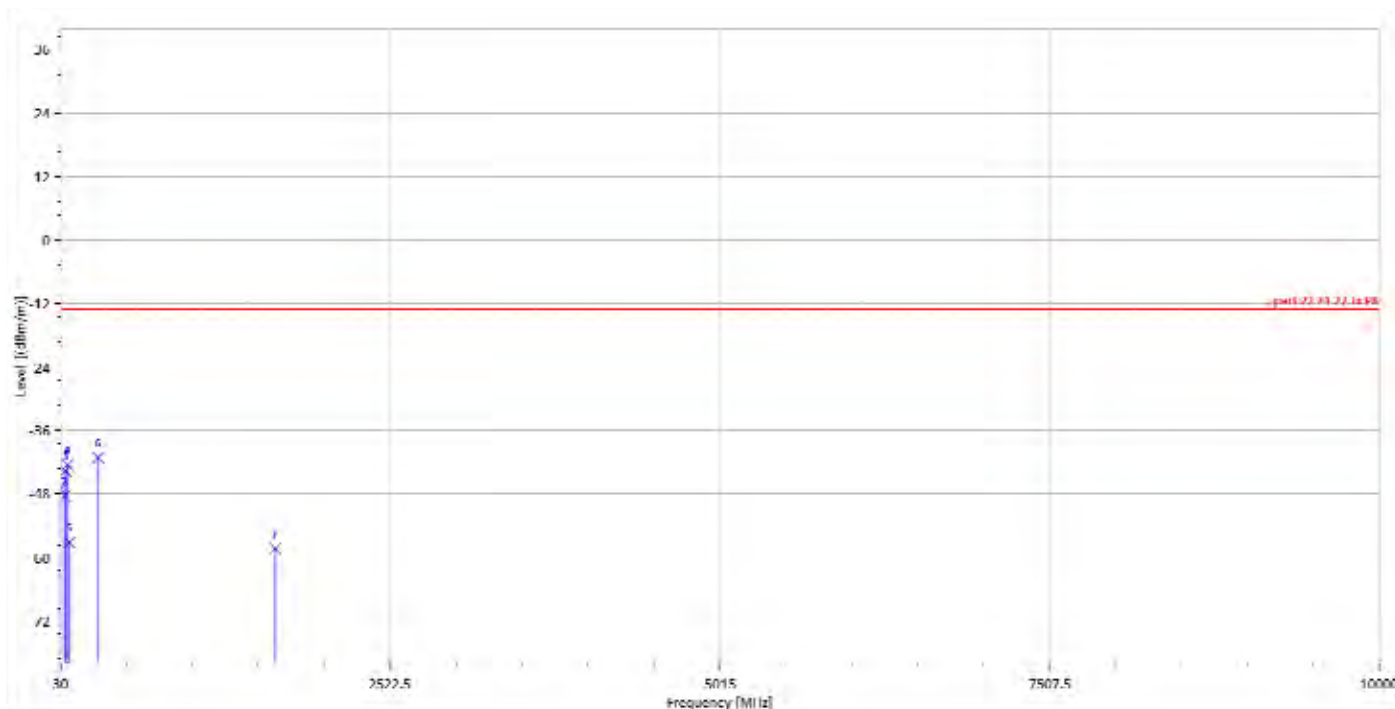
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode :	WCDMA B5	Test Date :	2017/7/5
Fundamental Frequency :	826.4 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-47.10	-25.72	-20.71	-0.67	-13.01	-34.09
61.04	S	-48.41	-44.52	-2.94	-0.95	-13.01	-35.40
67.83	S	-43.60	-40.64	-2.03	-0.93	-13.01	-30.59
84.32	S	-42.42	-39.56	-1.77	-1.09	-13.01	-29.41
97.90	S	-57.11	-53.10	-2.85	-1.16	-13.01	-44.10
317.12	S	-41.08	-42.75	3.78	-2.11	-13.01	-28.07
1652.80	H	-58.27	-60.31	6.77	-4.73	-13.01	-45.26

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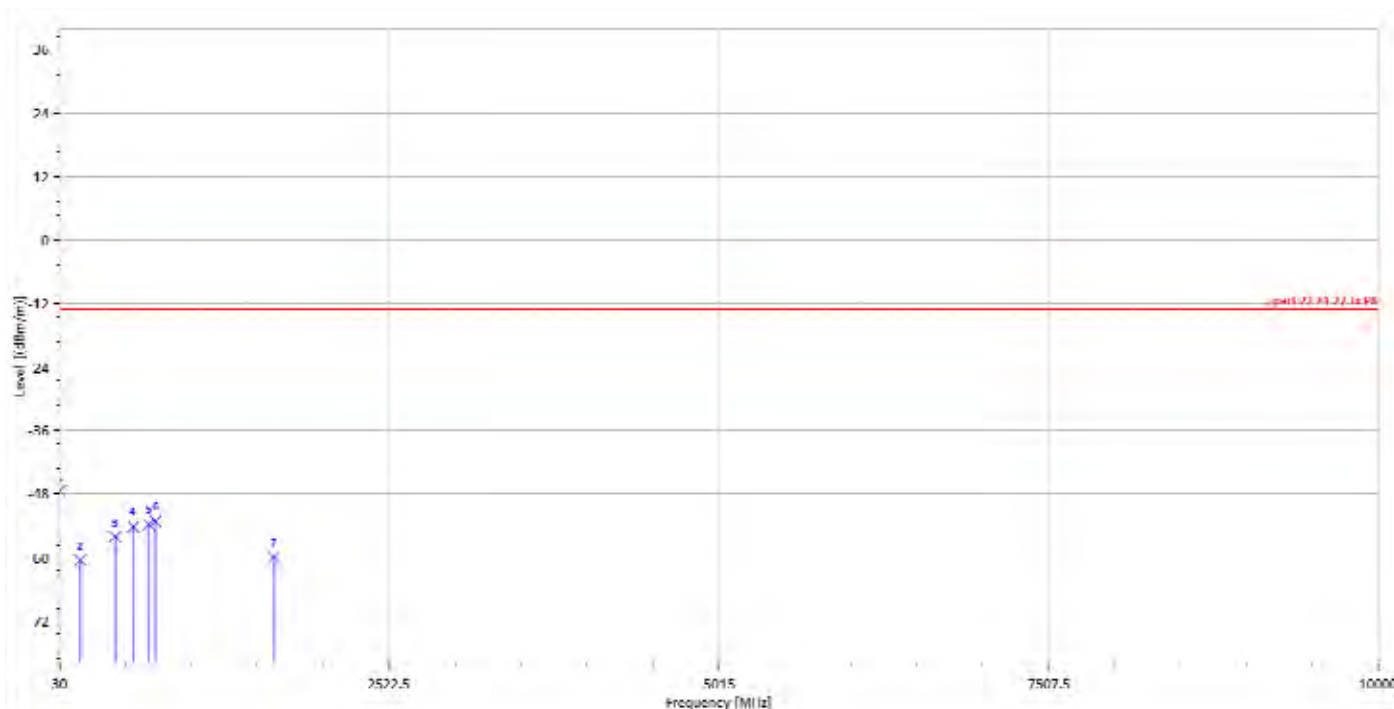
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Operation Mode : WCDMA B5 Test Date : 2017/7/5
Fundamental Frequency : 826.4 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
32.91	S	-47.45	-26.91	-19.87	-0.67	-13.01	-34.44
188.11	S	-60.51	-62.90	3.95	-1.56	-13.01	-47.50
451.95	S	-56.03	-57.81	4.13	-2.35	-13.01	-43.02
587.75	S	-54.09	-55.96	4.61	-2.74	-13.01	-41.08
706.09	S	-53.68	-56.03	5.46	-3.11	-13.01	-40.67
757.50	S	-53.09	-55.37	5.47	-3.19	-13.01	-40.08
1652.80	H	-59.92	-61.97	6.77	-4.73	-13.01	-46.91

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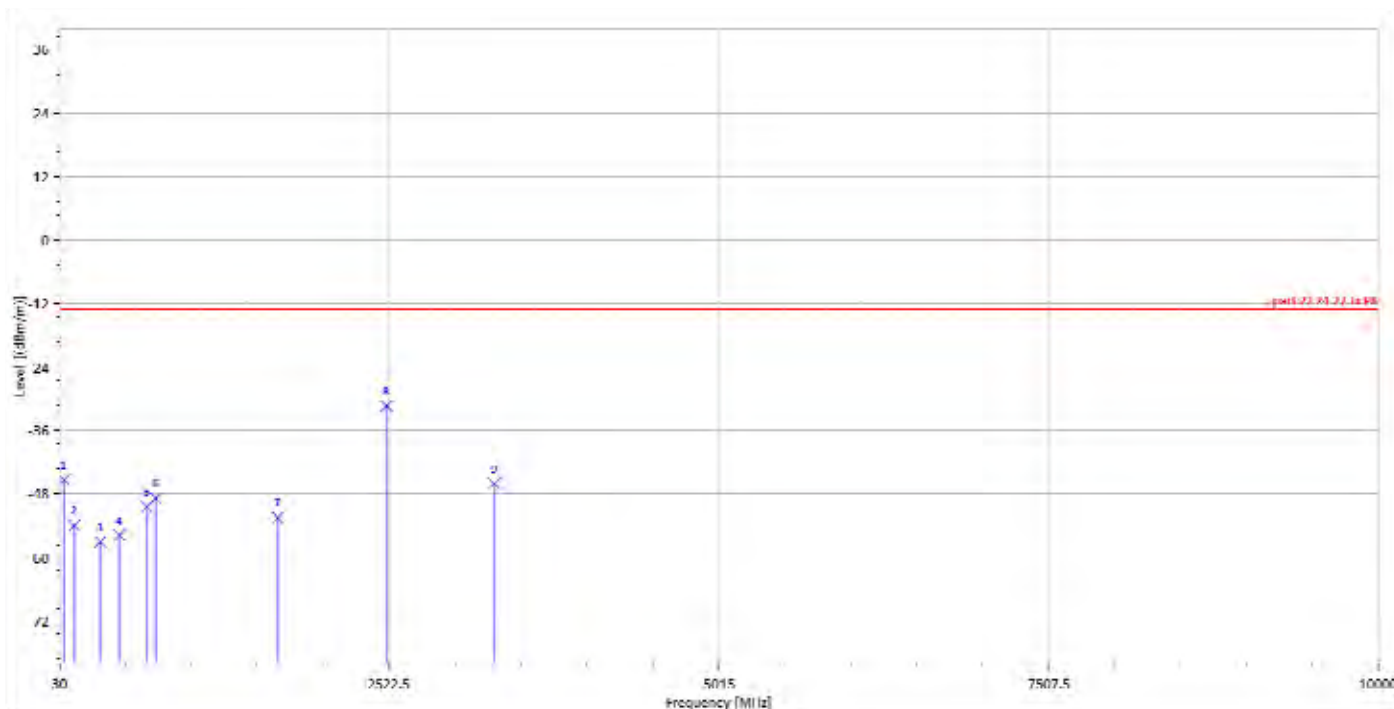
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Operation Mode : WCDMA B5 Test Date : 2017/7/5
Fundamental Frequency : 836.6 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
64.92	S	-45.31	-41.97	-2.42	-0.92	-13.01	-32.30
143.49	S	-53.89	-51.99	-0.53	-1.37	-13.01	-40.88
342.34	S	-57.01	-58.55	3.75	-2.22	-13.01	-44.00
481.05	S	-55.72	-57.27	4.20	-2.64	-13.01	-42.71
692.51	S	-50.40	-52.86	5.38	-2.92	-13.01	-37.39
759.44	S	-48.82	-50.96	5.47	-3.33	-13.01	-35.81
1679.00	H	-52.43	-54.49	6.86	-4.79	-13.01	-39.42
2505.00	H	-31.34	-33.71	8.26	-5.89	-13.01	-18.33
3317.00	H	-46.02	-48.94	9.78	-6.86	-13.01	-33.01

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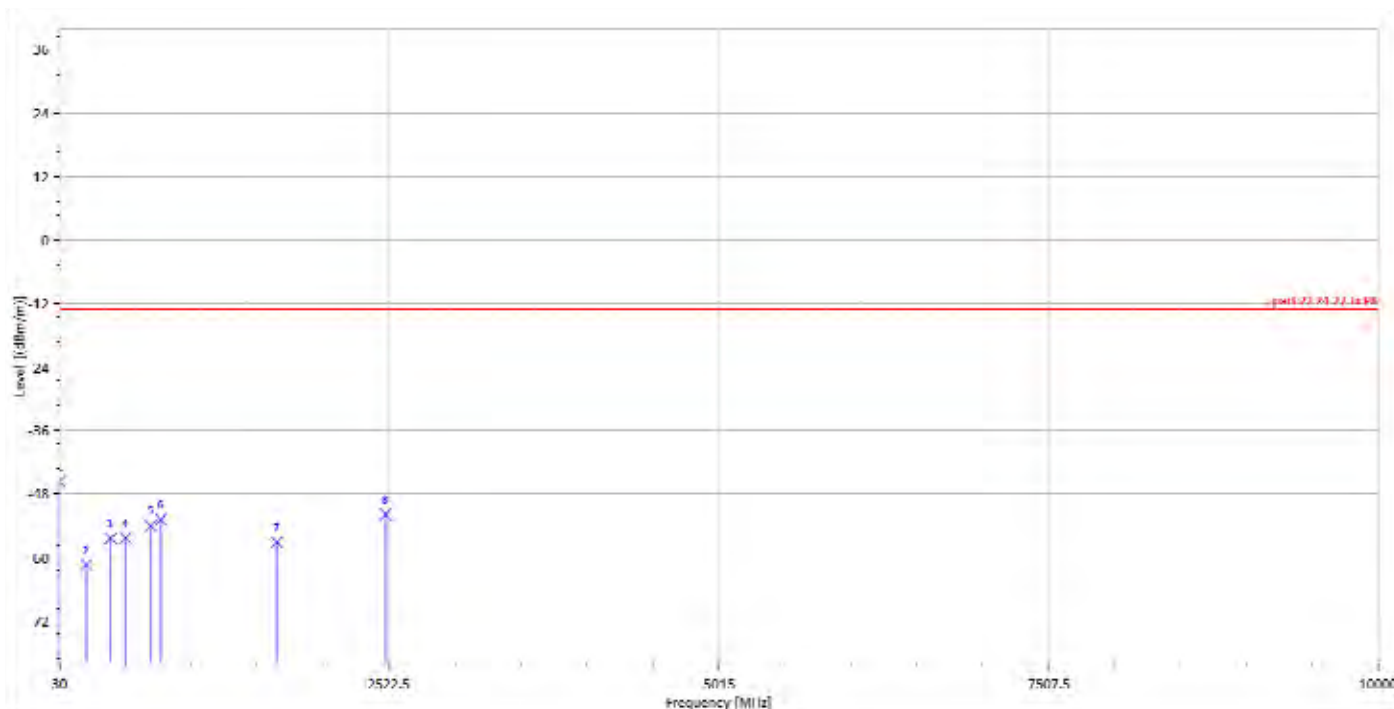
t (886-2) 2299-3279

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Operation Mode : WCDMA B5 Test Date : 2017/7/5
Fundamental Frequency : 836.6 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
30.97	S	-45.67	-23.46	-21.56	-0.65	-13.01	-32.66
235.64	S	-61.35	-63.40	3.80	-1.74	-13.01	-48.34
418.97	S	-56.35	-57.69	3.80	-2.45	-13.01	-43.34
528.58	S	-56.25	-57.82	4.26	-2.68	-13.01	-43.24
722.58	S	-53.92	-56.43	5.46	-2.95	-13.01	-40.91
799.21	S	-52.77	-54.91	5.52	-3.38	-13.01	-39.76
1672.00	H	-57.09	-59.14	6.83	-4.78	-13.01	-44.08
2498.00	H	-51.83	-54.20	8.25	-5.88	-13.01	-38.82

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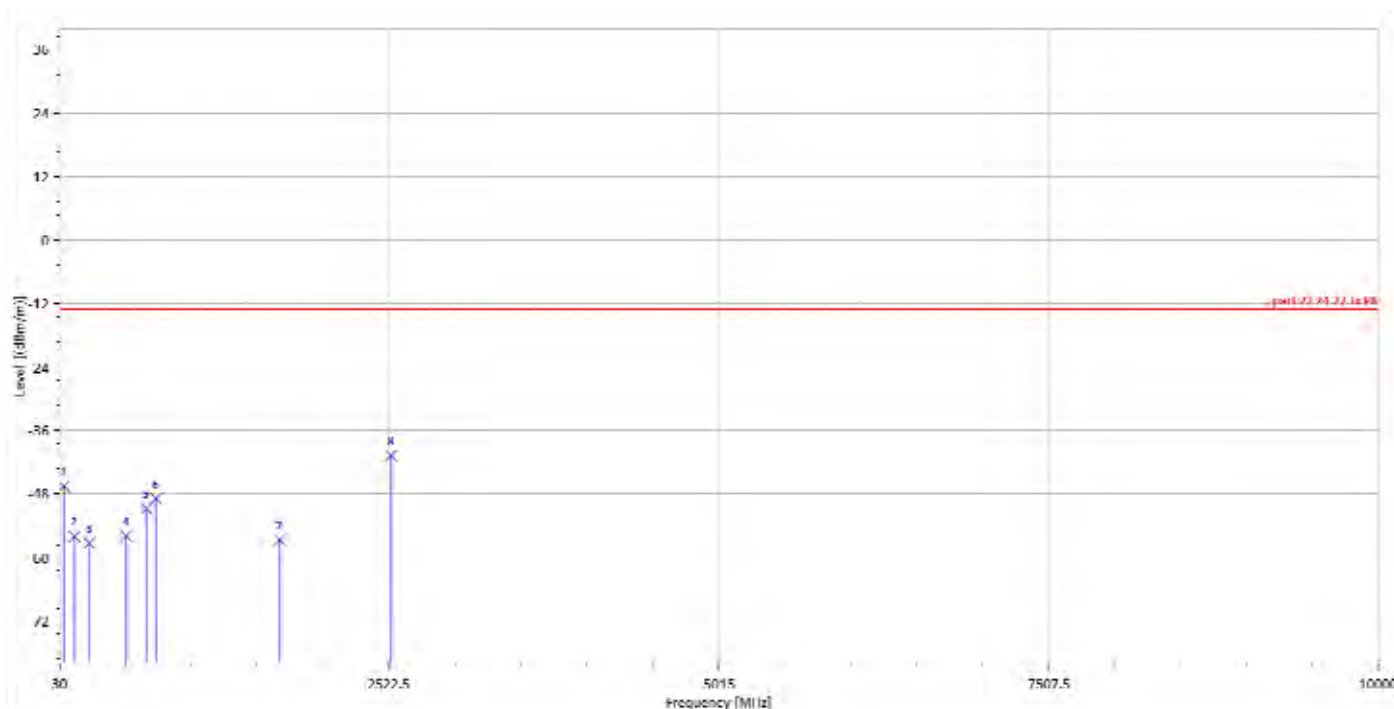
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f (886-2) 2298-0488

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Operation Mode : WCDMA B5 Test Date : 2017/7/5
Fundamental Frequency : 846.6 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
63.95	S	-46.56	-43.08	-2.55	-0.93	-13.01	-33.55
144.46	S	-55.96	-54.07	-0.39	-1.50	-13.01	-42.95
257.95	S	-57.26	-57.96	2.59	-1.89	-13.01	-44.25
533.43	S	-55.86	-57.31	4.26	-2.81	-13.01	-42.85
688.63	S	-50.83	-52.99	5.34	-3.17	-13.01	-37.82
761.38	S	-48.89	-51.13	5.48	-3.24	-13.01	-35.88
1693.00	H	-56.63	-58.74	6.91	-4.80	-13.01	-43.62
2540.00	H	-40.62	-43.04	8.32	-5.91	-13.01	-27.61

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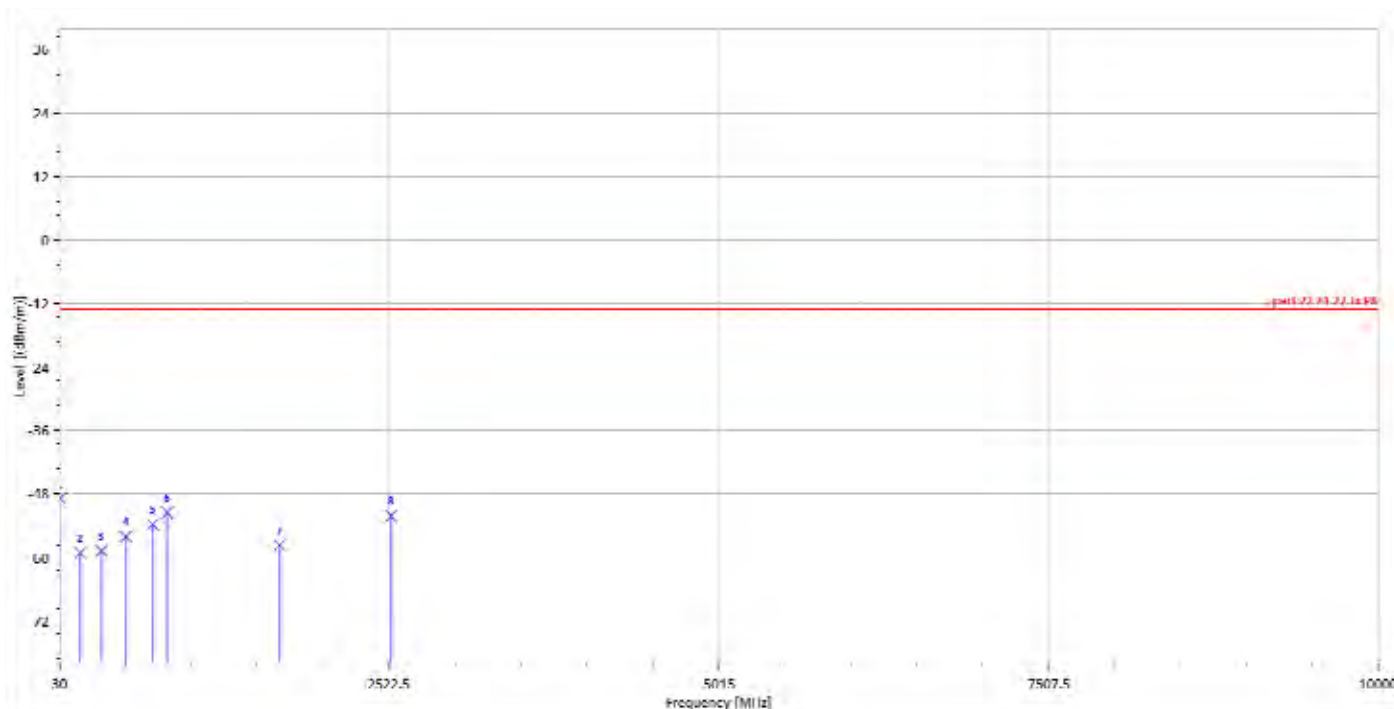
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : WCDMA B5 Test Date : 2017/7/5
Fundamental Frequency : 846.6 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
34.85	S	-48.88	-29.98	-18.19	-0.71	-13.01	-35.87
188.11	S	-59.10	-61.48	3.95	-1.56	-13.01	-46.09
352.04	S	-58.73	-60.20	3.74	-2.26	-13.01	-45.72
531.49	S	-56.02	-57.38	4.26	-2.89	-13.01	-43.01
737.13	S	-53.63	-56.01	5.46	-3.09	-13.01	-40.62
846.74	S	-51.54	-53.76	5.45	-3.24	-13.01	-38.53
1693.00	H	-57.61	-59.72	6.91	-4.80	-13.01	-44.60
2540.00	H	-52.12	-54.53	8.32	-5.91	-13.01	-39.11

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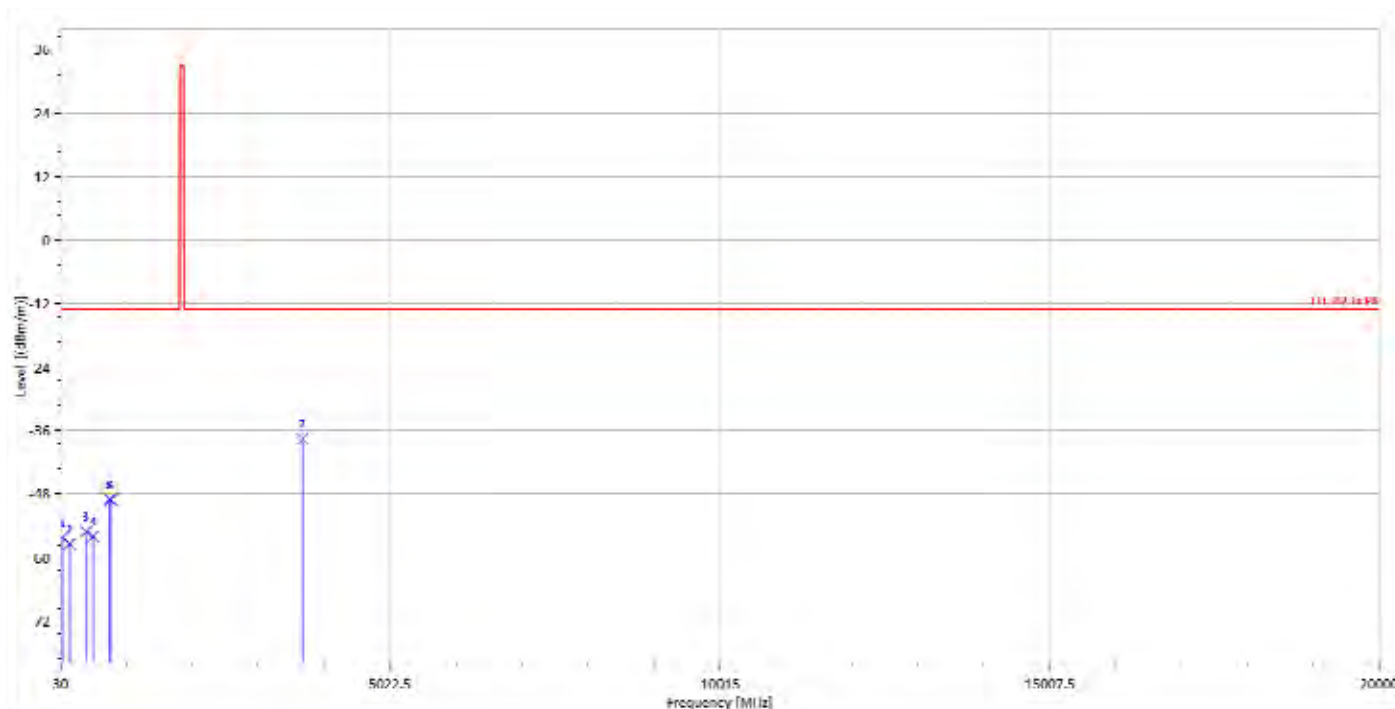
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode :	LTEB2 3M QPSK 1.14	Test Date :	2017/7/5
Fundamental Frequency :	1851.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
61.04	S	-56.13	-54.40	-0.79	-0.95	-13	-43.13
174.53	S	-57.38	-60.96	5.17	-1.58	-13	-44.38
422.85	S	-55.04	-58.78	5.99	-2.26	-13	-42.04
531.49	S	-55.93	-59.45	6.41	-2.89	-13	-42.93
779.81	S	-49.01	-53.31	7.65	-3.35	-13	-36.01
799.21	S	-49.16	-53.45	7.67	-3.38	-13	-36.16
3702.00	H	-37.55	-42.70	12.30	-7.15	-13	-24.55

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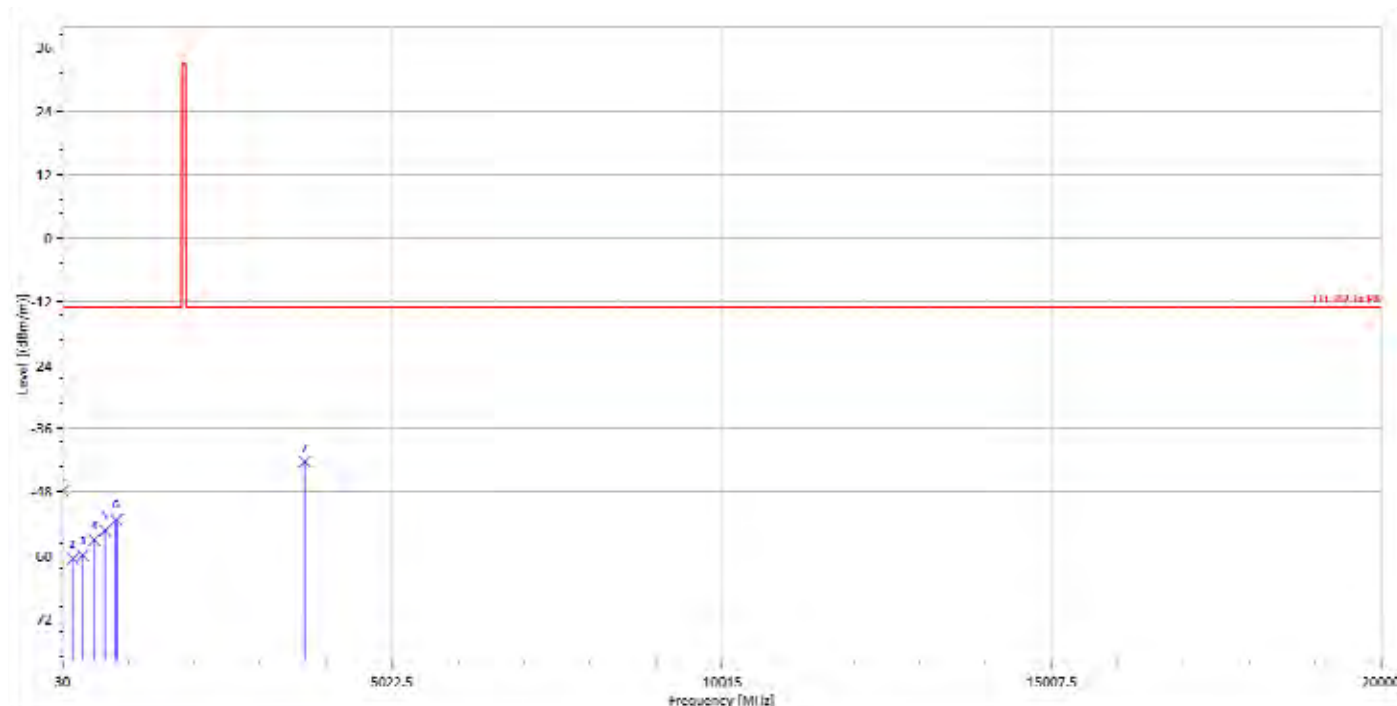
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Operation Mode :	LTEB2 3M QPSK 1.14	Test Date :	2017/7/5
Fundamental Frequency :	1851.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
34.85	S	-47.80	-31.05	-16.04	-0.71	-13	-34.80
189.08	S	-60.59	-65.14	6.14	-1.59	-13	-47.59
339.43	S	-59.94	-63.77	5.90	-2.08	-13	-46.94
516.94	S	-57.02	-61.03	6.40	-2.39	-13	-44.02
681.84	S	-55.19	-59.91	7.41	-2.70	-13	-42.19
846.74	S	-53.19	-57.56	7.60	-3.24	-13	-40.19
3702.00	H	-42.24	-47.40	12.30	-7.15	-13	-29.24

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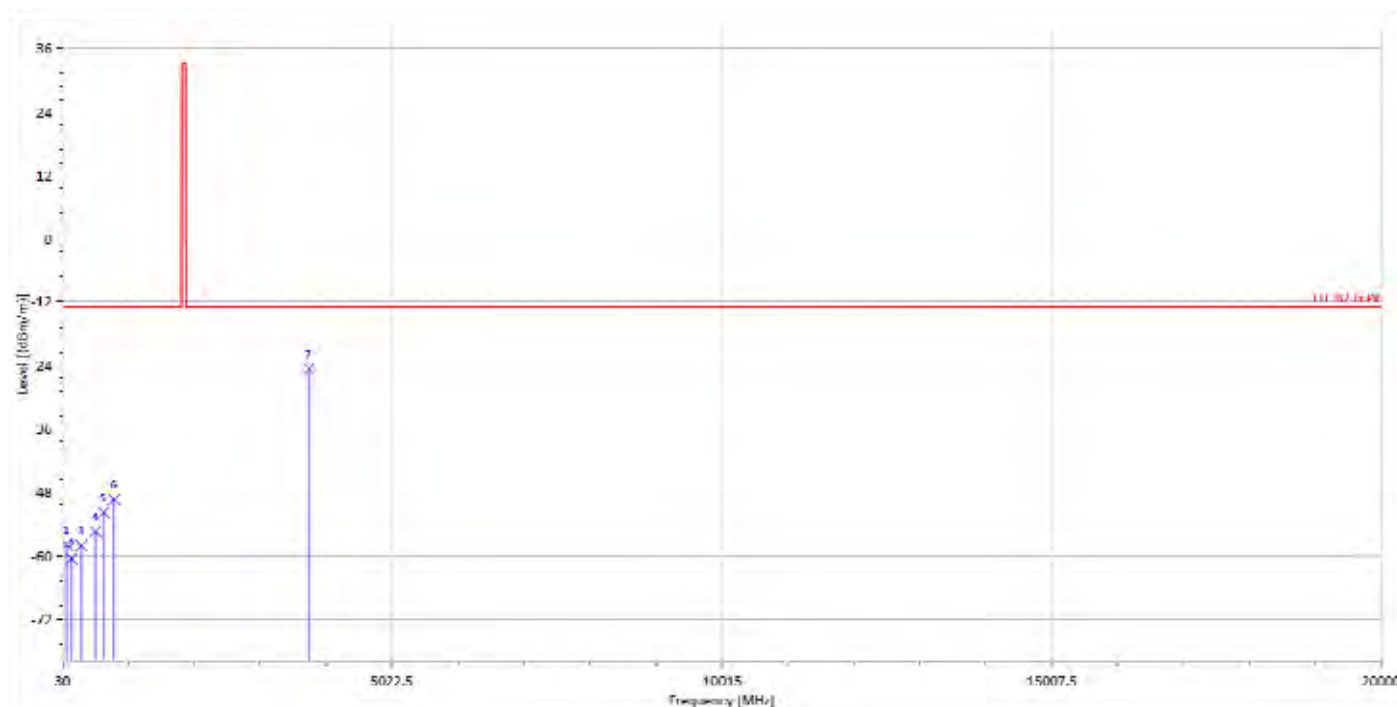
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Operation Mode : LTEB2 3M QPSK 1.14 Test Date : 2017/7/5
Fundamental Frequency : 1880.0 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
91.11	S	-57.88	-56.65	-0.10	-1.12	-13	-44.88
169.68	S	-60.55	-63.83	4.68	-1.40	-13	-47.55
318.09	S	-58.07	-61.98	5.93	-2.02	-13	-45.07
535.37	S	-55.51	-59.43	6.41	-2.49	-13	-42.51
660.50	S	-51.85	-56.26	7.18	-2.77	-13	-38.85
815.70	S	-49.36	-53.79	7.65	-3.21	-13	-36.36
3765.00	H	-24.66	-29.74	12.30	-7.21	-13	-11.66

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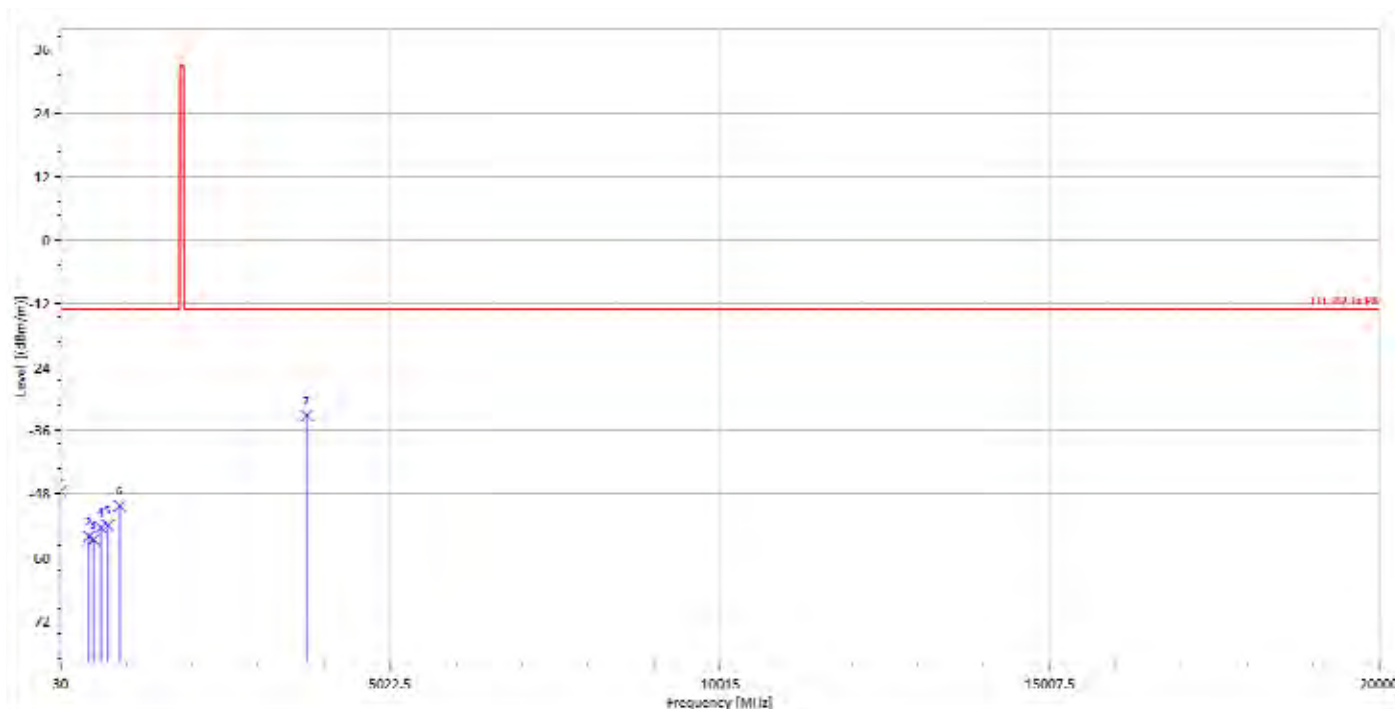
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Operation Mode :	LTEB2 3M QPSK 1.14	Test Date :	2017/7/5
Fundamental Frequency :	1880.0 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
33.88	S	-47.51	-29.95	-16.88	-0.68	-13	-34.51
464.56	S	-56.01	-59.91	6.31	-2.41	-13	-43.01
539.25	S	-56.55	-60.40	6.41	-2.56	-13	-43.55
649.83	S	-54.28	-58.68	7.07	-2.68	-13	-41.28
756.53	S	-53.87	-58.53	7.62	-2.96	-13	-40.87
925.31	S	-50.29	-54.59	7.83	-3.53	-13	-37.29
3765.00	H	-33.19	-38.27	12.30	-7.21	-13	-20.19

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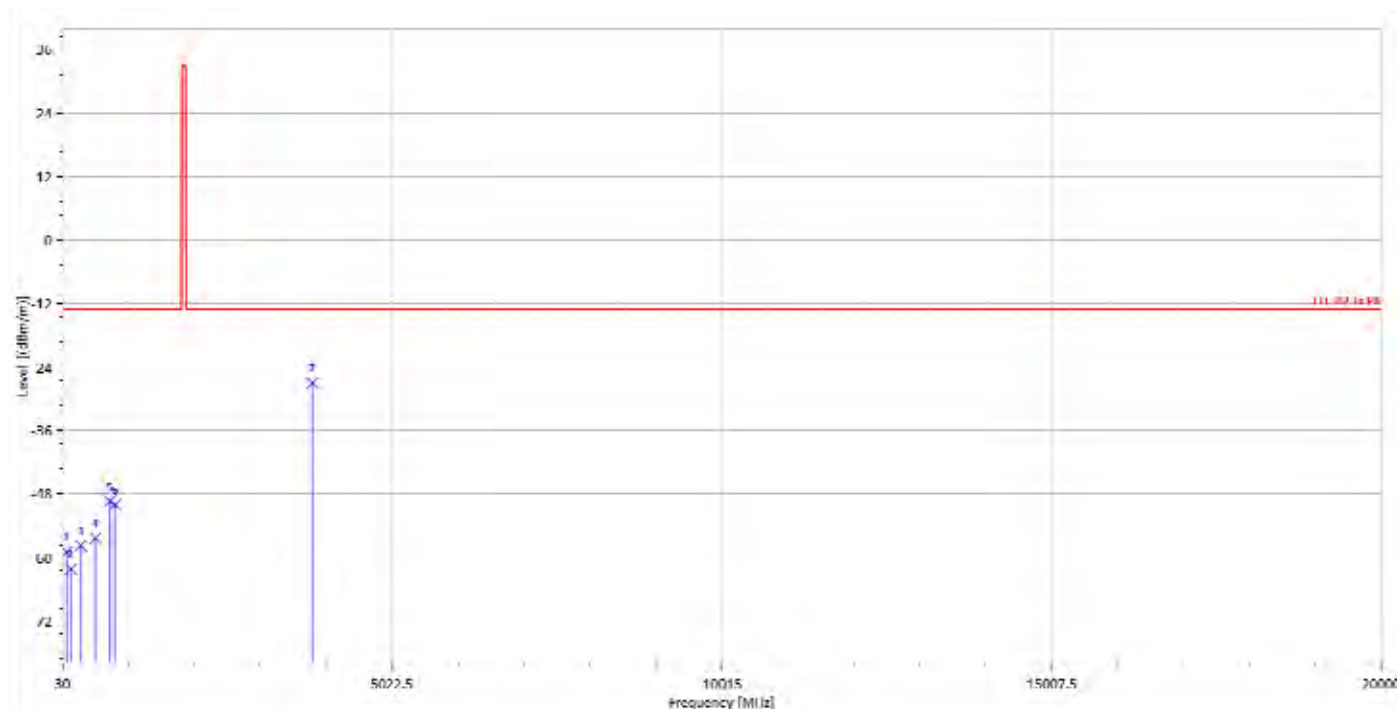
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Operation Mode : LTEB2 3M QPSK 1.14 Test Date : 2017/7/5
Fundamental Frequency : 1908.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-58.94	-57.08	-0.70	-1.16	-13	-45.94
160.95	S	-62.18	-64.52	3.70	-1.36	-13	-49.18
310.33	S	-57.71	-61.68	5.94	-1.96	-13	-44.71
534.40	S	-56.23	-60.08	6.41	-2.57	-13	-43.23
758.47	S	-49.42	-53.70	7.62	-3.34	-13	-36.42
830.25	S	-50.06	-54.39	7.63	-3.29	-13	-37.06
3821.00	H	-26.96	-31.98	12.30	-7.28	-13	-13.96

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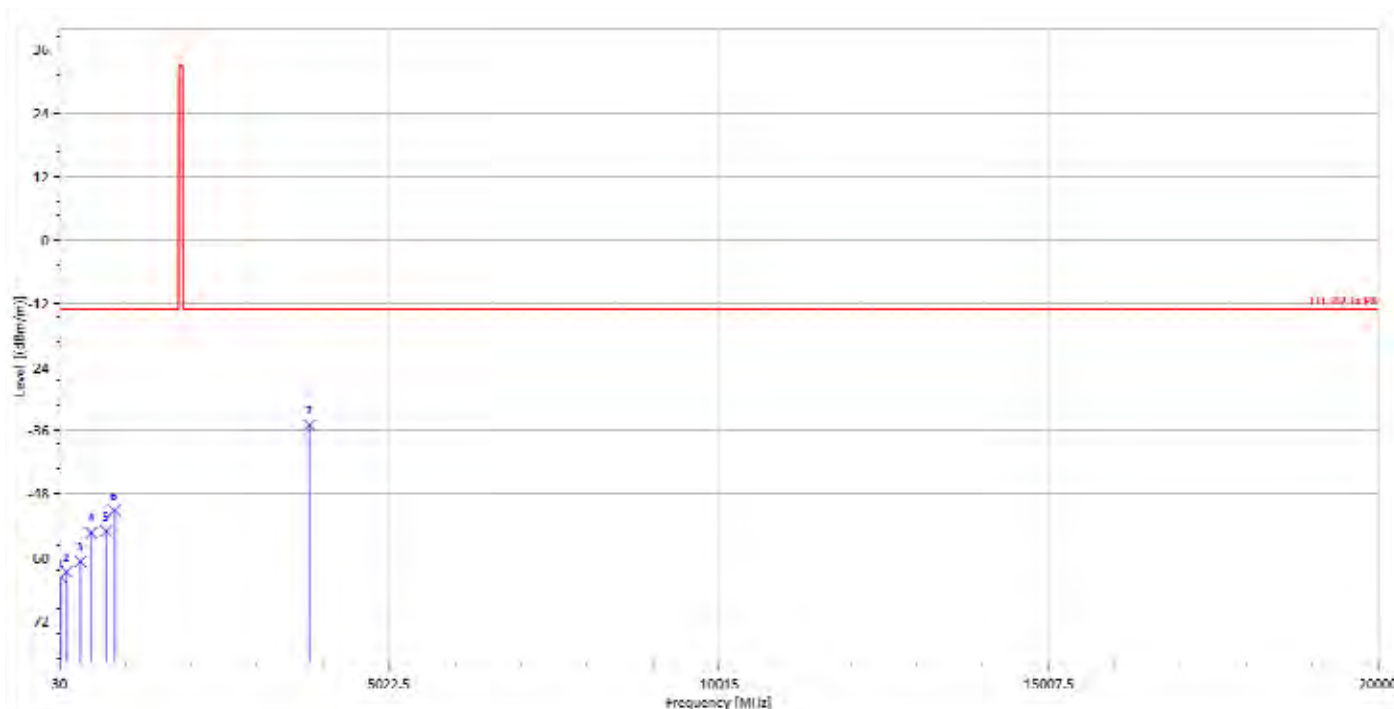
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Operation Mode :	LTEB2 3M QPSK 1.14	Test Date :	2017/7/5
Fundamental Frequency :	1908.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
51.34	S	-63.79	-58.58	-4.38	-0.83	-13	-50.79
139.61	S	-62.76	-62.47	1.08	-1.38	-13	-49.76
350.10	S	-60.76	-64.58	5.89	-2.08	-13	-47.76
515.97	S	-55.27	-59.32	6.40	-2.35	-13	-42.27
746.83	S	-54.94	-59.54	7.61	-3.01	-13	-41.94
863.23	S	-51.17	-55.18	7.65	-3.64	-13	-38.17
3821.00	H	-35.03	-40.05	12.30	-7.28	-13	-22.03

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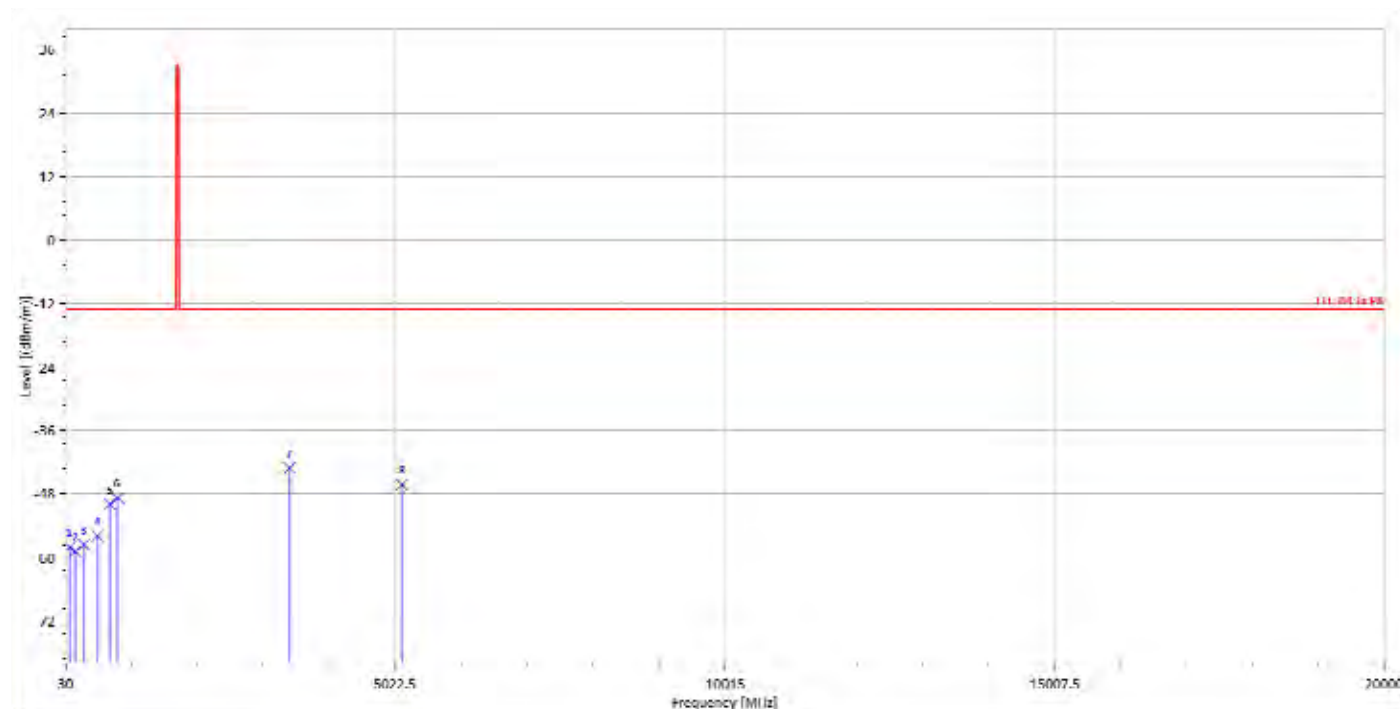
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode :	LTEB4 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1711.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
93.05	S	-58.01	-56.59	-0.28	-1.14	-13	-45.01
180.35	S	-58.82	-62.97	5.73	-1.58	-13	-45.82
313.24	S	-57.51	-61.34	5.94	-2.12	-13	-44.51
522.76	S	-55.84	-59.44	6.40	-2.80	-13	-42.84
712.88	S	-49.98	-54.61	7.61	-2.97	-13	-36.98
824.43	S	-48.79	-53.08	7.64	-3.34	-13	-35.79
3422.00	H	-43.06	-48.27	12.14	-6.93	-13	-30.06
5130.00	H	-46.25	-50.24	12.38	-8.39	-13	-33.25

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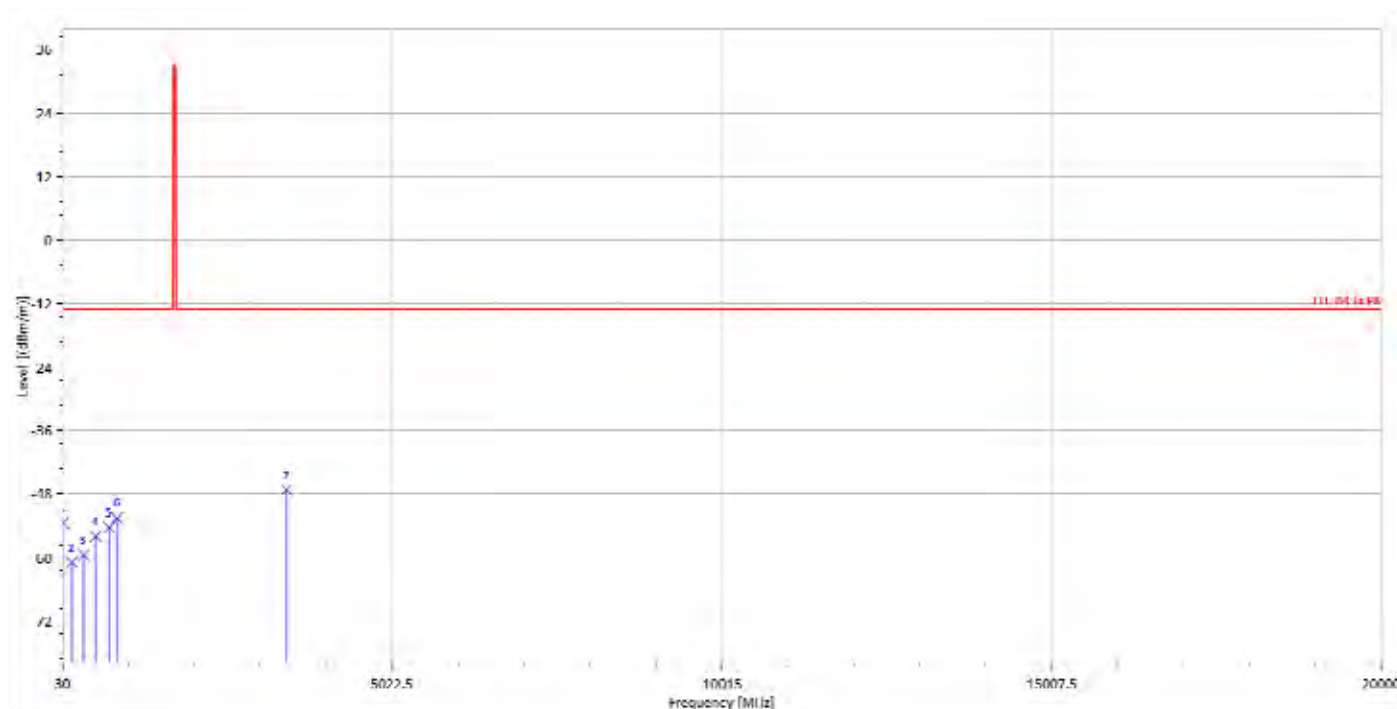
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Operation Mode : LTEB4 3M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 1711.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
40.67	S	-53.36	-41.27	-11.34	-0.75	-13	-40.36
175.50	S	-60.92	-64.56	5.27	-1.62	-13	-47.92
353.01	S	-59.50	-63.11	5.88	-2.28	-13	-46.50
539.25	S	-55.94	-59.79	6.41	-2.56	-13	-42.94
748.77	S	-54.25	-58.44	7.61	-3.42	-13	-41.25
858.38	S	-52.51	-56.98	7.63	-3.16	-13	-39.51
3422.00	S	-47.24	-52.45	12.14	-6.93	-13	-34.24

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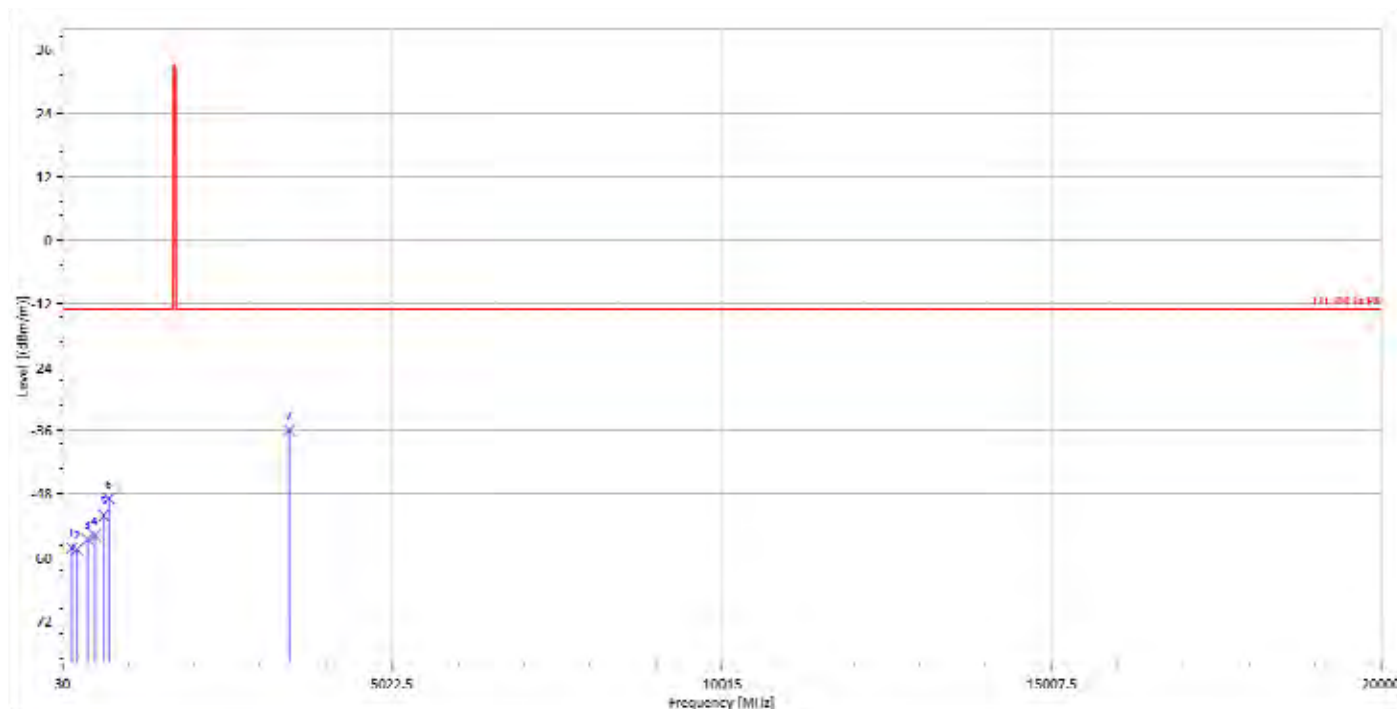
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Operation Mode : LTEB4 3M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 1732.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
175.50	S	-58.16	-61.81	5.27	-1.62	-13	-45.16
253.10	S	-58.43	-61.70	5.06	-1.80	-13	-45.43
415.09	S	-56.52	-60.20	5.91	-2.23	-13	-43.52
528.58	S	-55.78	-59.50	6.41	-2.68	-13	-42.78
663.41	S	-52.03	-56.52	7.21	-2.73	-13	-39.03
742.95	S	-48.86	-53.44	7.61	-3.03	-13	-35.86
3464.00	H	-35.98	-41.35	12.23	-6.86	-13	-22.98

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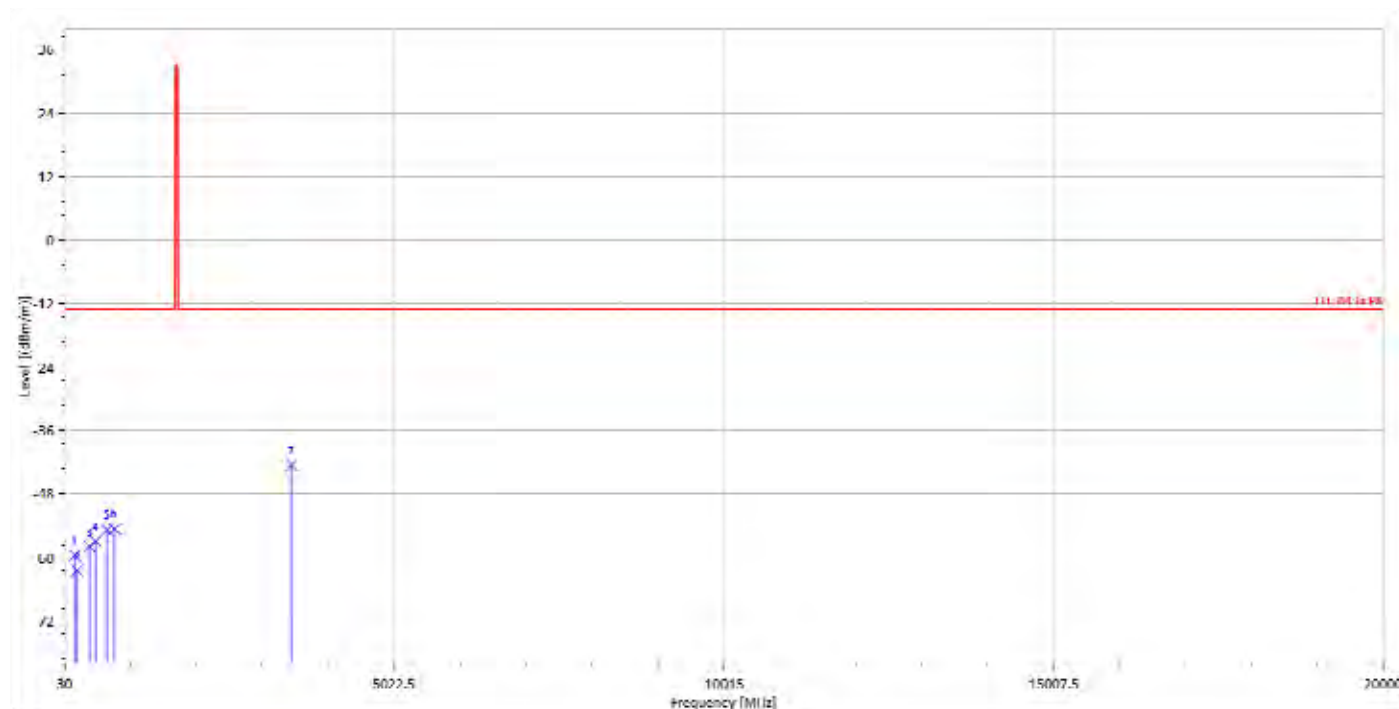
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Operation Mode : LTEB4 3M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 1732.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
190.05	S	-59.55	-64.13	6.18	-1.61	-13	-46.55
223.03	S	-62.45	-67.17	6.46	-1.75	-13	-49.45
416.06	S	-57.91	-61.43	5.92	-2.40	-13	-44.91
508.21	S	-56.89	-60.69	6.39	-2.60	-13	-43.89
682.81	S	-54.71	-59.34	7.43	-2.80	-13	-41.71
793.39	S	-54.54	-58.97	7.66	-3.23	-13	-41.54
3464.00	S	-42.45	-47.81	12.23	-6.86	-13	-29.45

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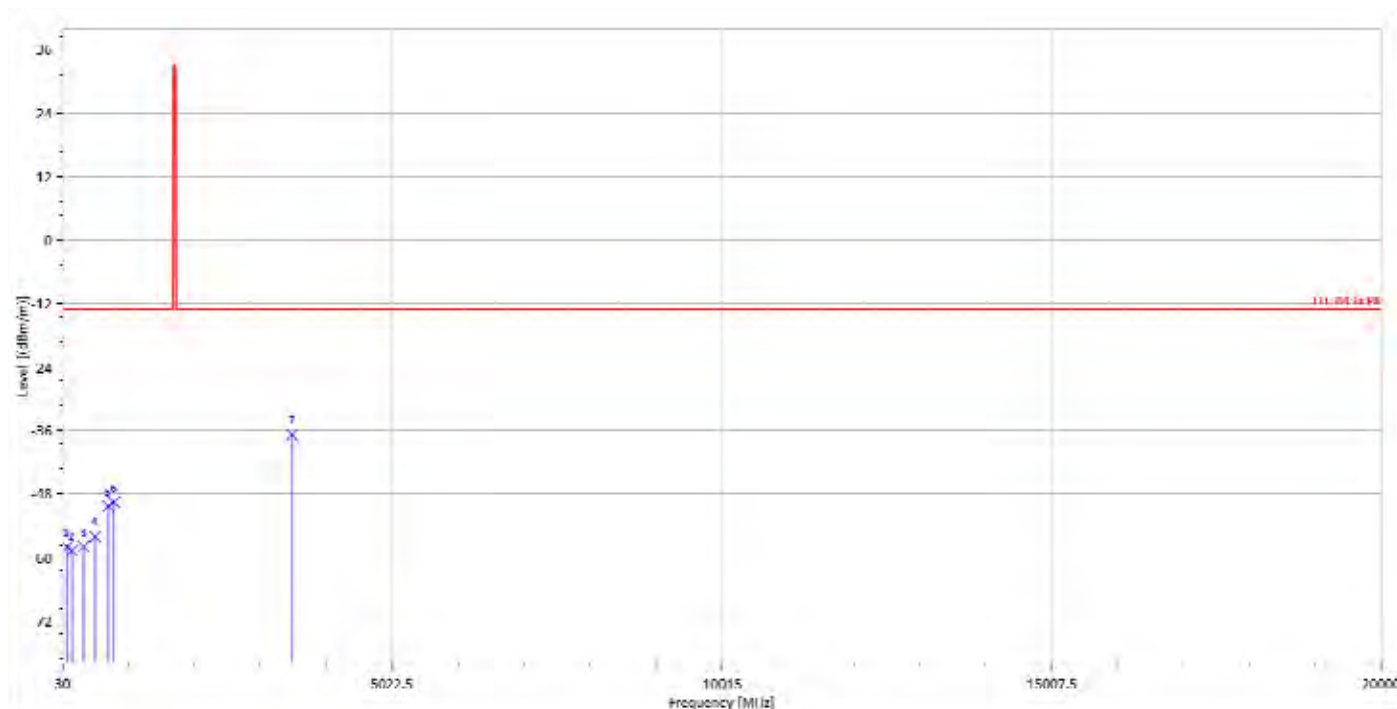
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Operation Mode : LTEB4 3M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 1753.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-57.98	-56.12	-0.70	-1.16	-13	-44.98
176.47	S	-58.69	-62.46	5.36	-1.59	-13	-45.69
353.98	S	-57.94	-61.59	5.88	-2.23	-13	-44.94
529.55	S	-56.01	-59.77	6.41	-2.65	-13	-43.01
732.28	S	-50.35	-55.01	7.61	-2.94	-13	-37.35
811.82	S	-49.60	-53.81	7.65	-3.45	-13	-36.60
3506.00	H	-36.84	-42.11	12.30	-7.03	-13	-23.84

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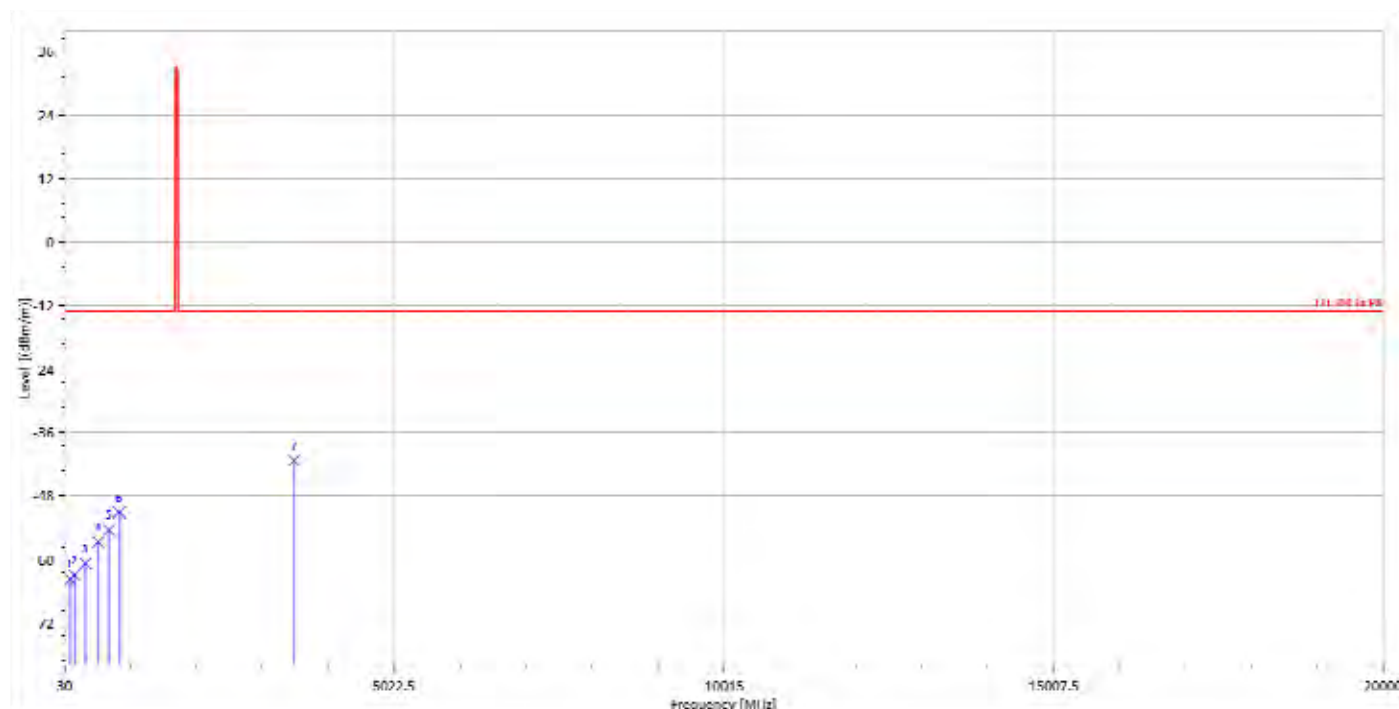
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Operation Mode : LTEB4 3M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 1753.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
116.33	S	-63.73	-61.49	-0.97	-1.26	-13	-50.73
184.23	S	-62.96	-67.23	5.91	-1.64	-13	-49.96
351.07	S	-60.73	-64.45	5.89	-2.16	-13	-47.73
547.01	S	-56.63	-60.48	6.42	-2.57	-13	-43.63
712.88	S	-54.35	-58.98	7.61	-2.97	-13	-41.35
862.26	S	-51.12	-55.32	7.65	-3.45	-13	-38.12
3506.00	H	-41.23	-46.50	12.30	-7.03	-13	-28.23

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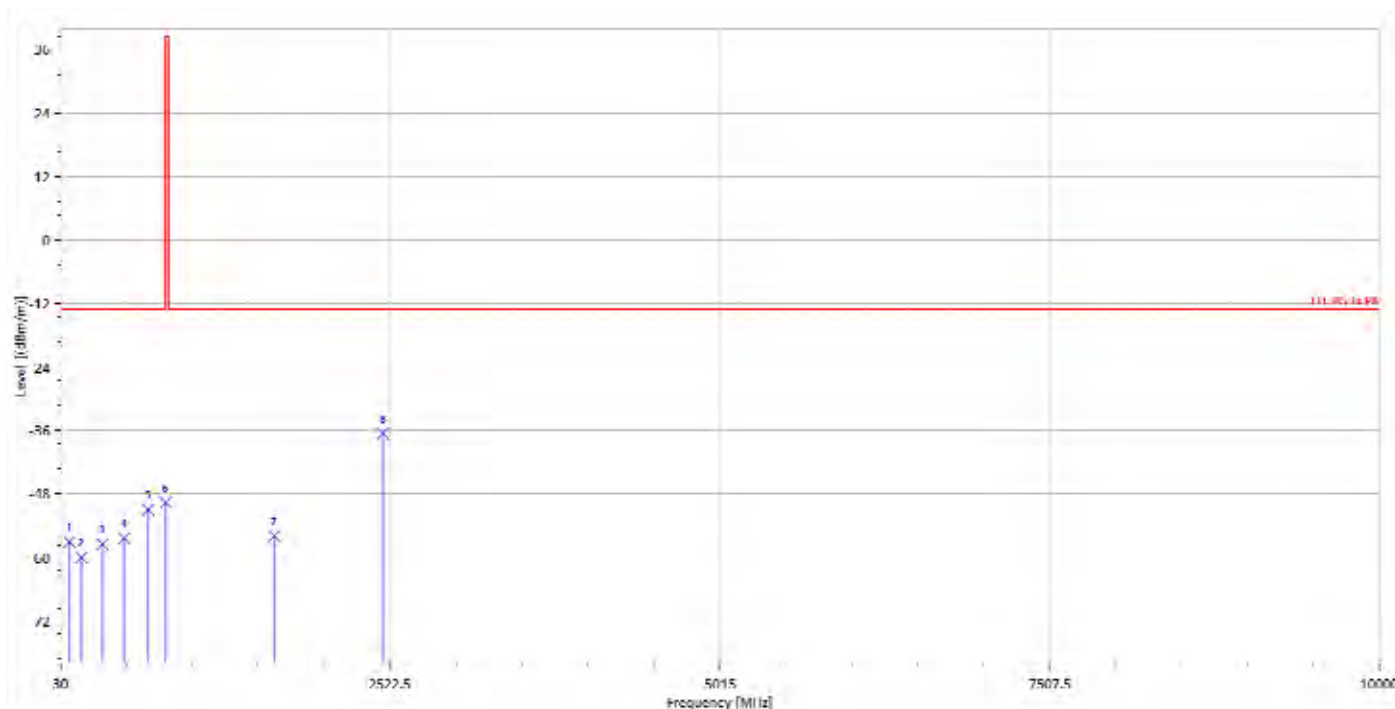
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode :	LTEB5 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	824.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	
		dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-57.01	-53.00	-2.85	-1.16	-13	-44.01
190.05	S	-60.00	-62.42	4.03	-1.61	-13	-47.00
352.04	S	-57.43	-58.91	3.74	-2.26	-13	-44.43
509.18	S	-56.28	-57.69	4.24	-2.83	-13	-43.28
693.48	S	-51.01	-53.40	5.39	-3.01	-13	-38.01
827.34	S	-49.68	-51.96	5.48	-3.20	-13	-36.68
1644.00	H	-55.88	-57.91	6.74	-4.71	-13	-42.88
2470.00	H	-36.60	-39.00	8.23	-5.84	-13	-23.60

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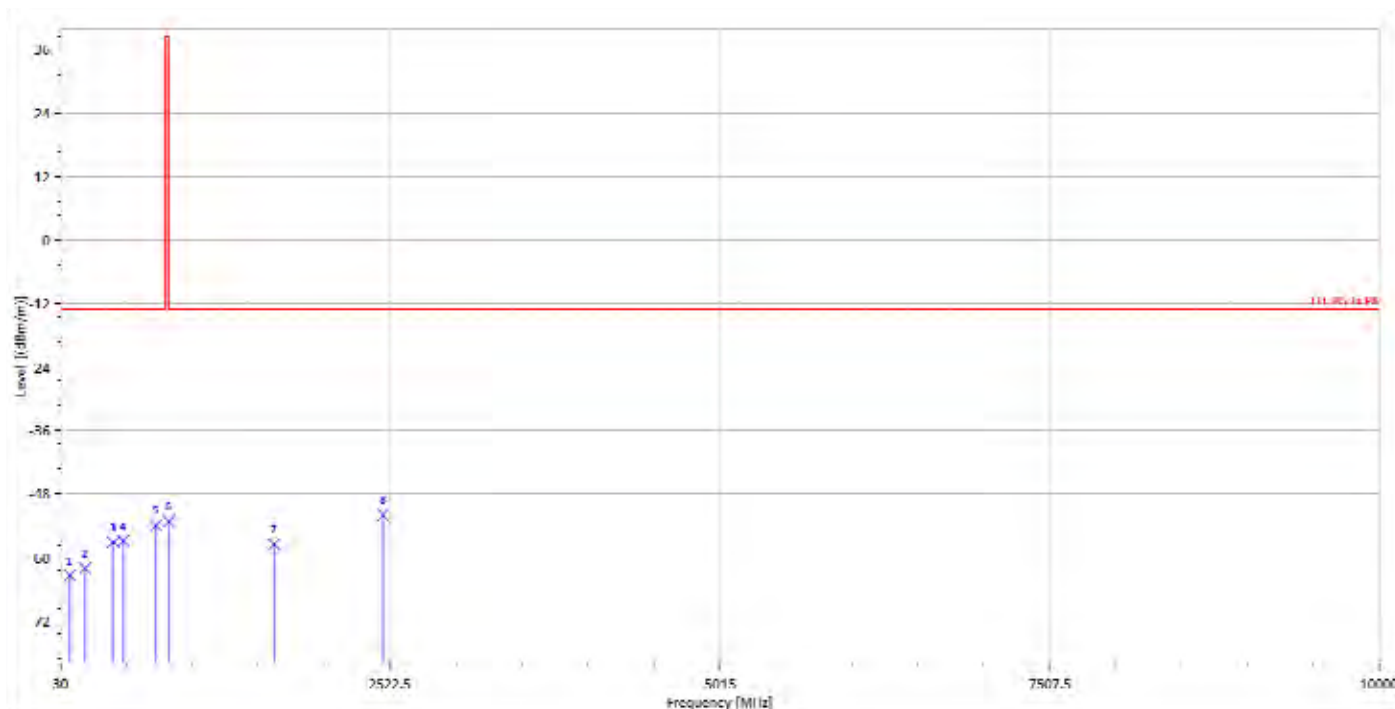
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Operation Mode :	LTEB5 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	824.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
100.81	S	-63.39	-59.14	-3.07	-1.17	-13	-50.39
218.18	S	-62.04	-64.64	4.32	-1.71	-13	-49.04
430.61	S	-57.09	-58.60	3.92	-2.41	-13	-44.09
503.36	S	-56.80	-58.48	4.24	-2.55	-13	-43.80
752.65	S	-53.85	-56.20	5.46	-3.11	-13	-40.85
852.56	S	-53.09	-55.12	5.46	-3.43	-13	-40.09
1644.00	H	-57.46	-59.49	6.74	-4.71	-13	-44.46
2470.00	H	-51.93	-54.33	8.23	-5.84	-13	-38.93

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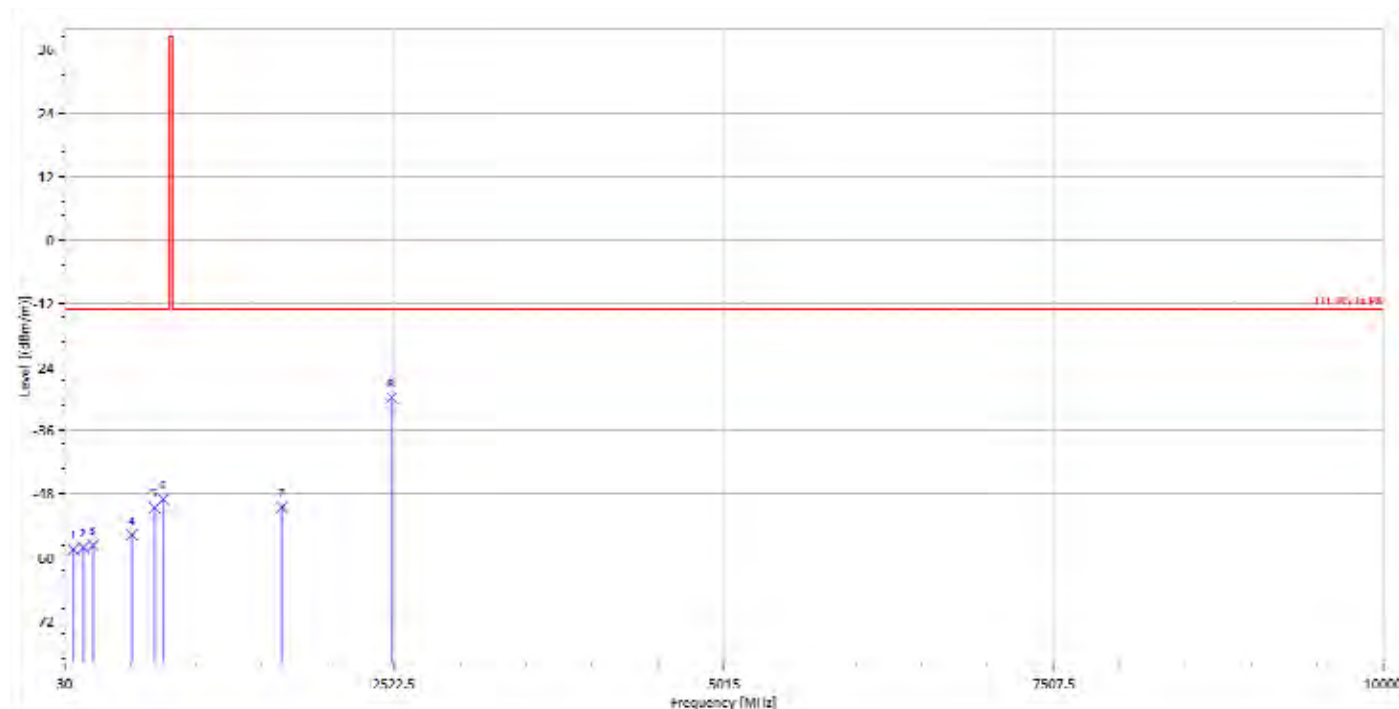
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Operation Mode :	LTEB5 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-58.47	-54.46	-2.85	-1.16	-13	-45.47
175.50	S	-58.06	-59.56	3.12	-1.62	-13	-45.06
250.19	S	-57.61	-58.80	3.11	-1.92	-13	-44.61
539.25	S	-55.68	-57.38	4.26	-2.56	-13	-42.68
711.91	S	-50.66	-53.05	5.46	-3.07	-13	-37.66
778.84	S	-49.04	-51.36	5.50	-3.17	-13	-36.04
1672.00	H	-50.62	-52.68	6.83	-4.78	-13	-37.62
2505.00	H	-29.78	-32.15	8.26	-5.89	-13	-16.78

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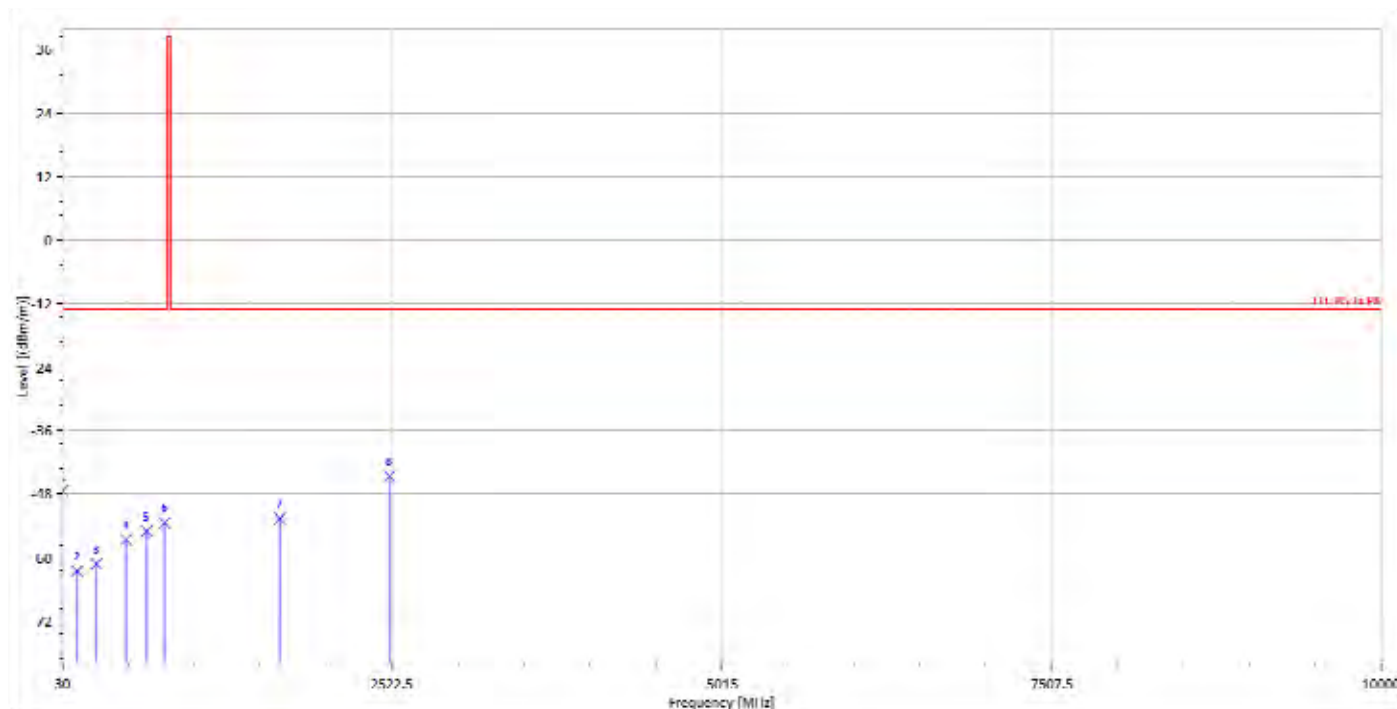
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Operation Mode :	LTEB5 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	836.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-47.41	-26.03	-20.71	-0.67	-13	-34.41
141.55	S	-62.60	-60.45	-0.80	-1.35	-13	-49.60
288.99	S	-61.19	-62.90	3.70	-1.99	-13	-48.19
509.18	S	-56.59	-58.00	4.24	-2.83	-13	-43.59
667.29	S	-54.96	-56.89	5.11	-3.18	-13	-41.96
803.09	S	-53.37	-55.54	5.52	-3.34	-13	-40.37
1672.00	H	-52.62	-54.68	6.83	-4.78	-13	-39.62
2505.00	H	-44.61	-46.99	8.26	-5.89	-13	-31.61

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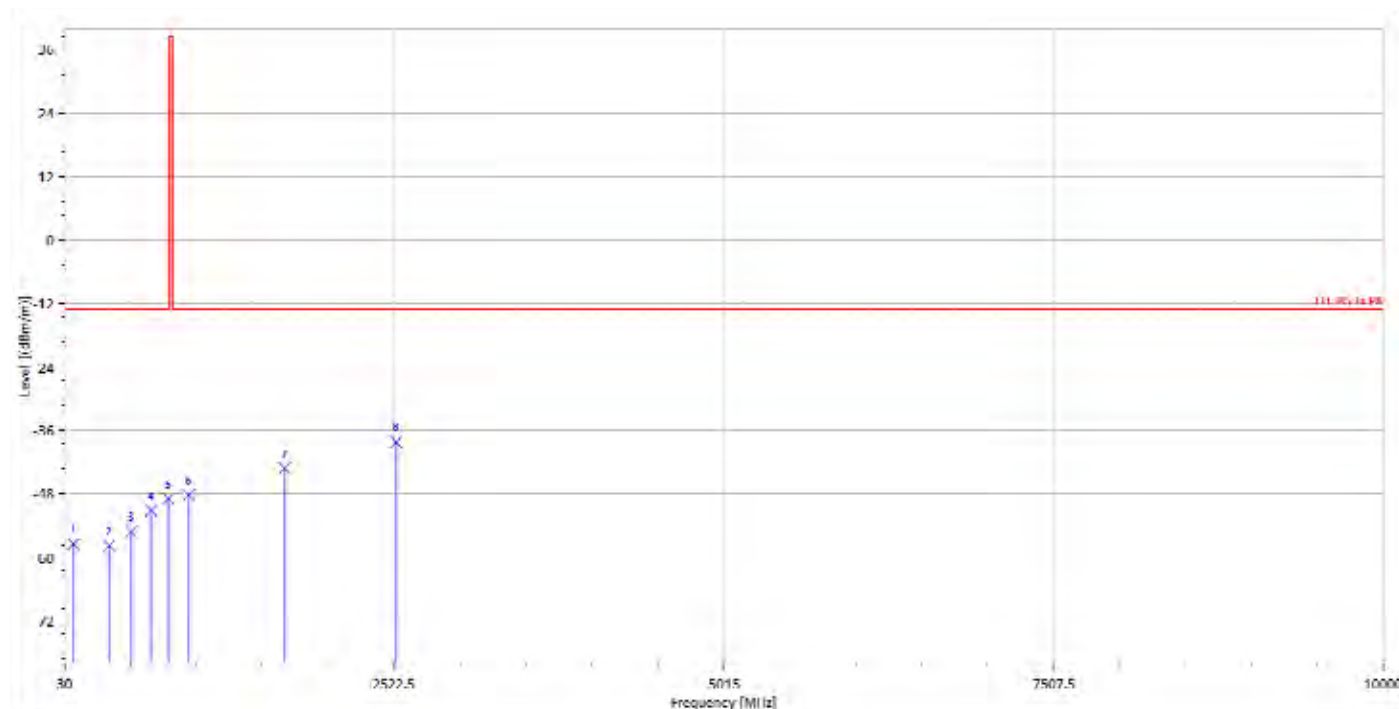
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Operation Mode :	LTEB5 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	848.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-57.41	-53.40	-2.85	-1.16	-13	-44.41
372.41	S	-57.75	-59.18	3.68	-2.24	-13	-44.75
534.40	S	-55.05	-56.74	4.26	-2.57	-13	-42.05
684.75	S	-51.18	-53.39	5.30	-3.09	-13	-38.18
817.64	S	-48.92	-51.18	5.50	-3.23	-13	-35.92
972.84	S	-48.23	-50.54	5.74	-3.42	-13	-35.23
1693.00	H	-43.07	-45.18	6.91	-4.80	-13	-30.07
2540.00	H	-38.15	-40.57	8.32	-5.91	-13	-25.15

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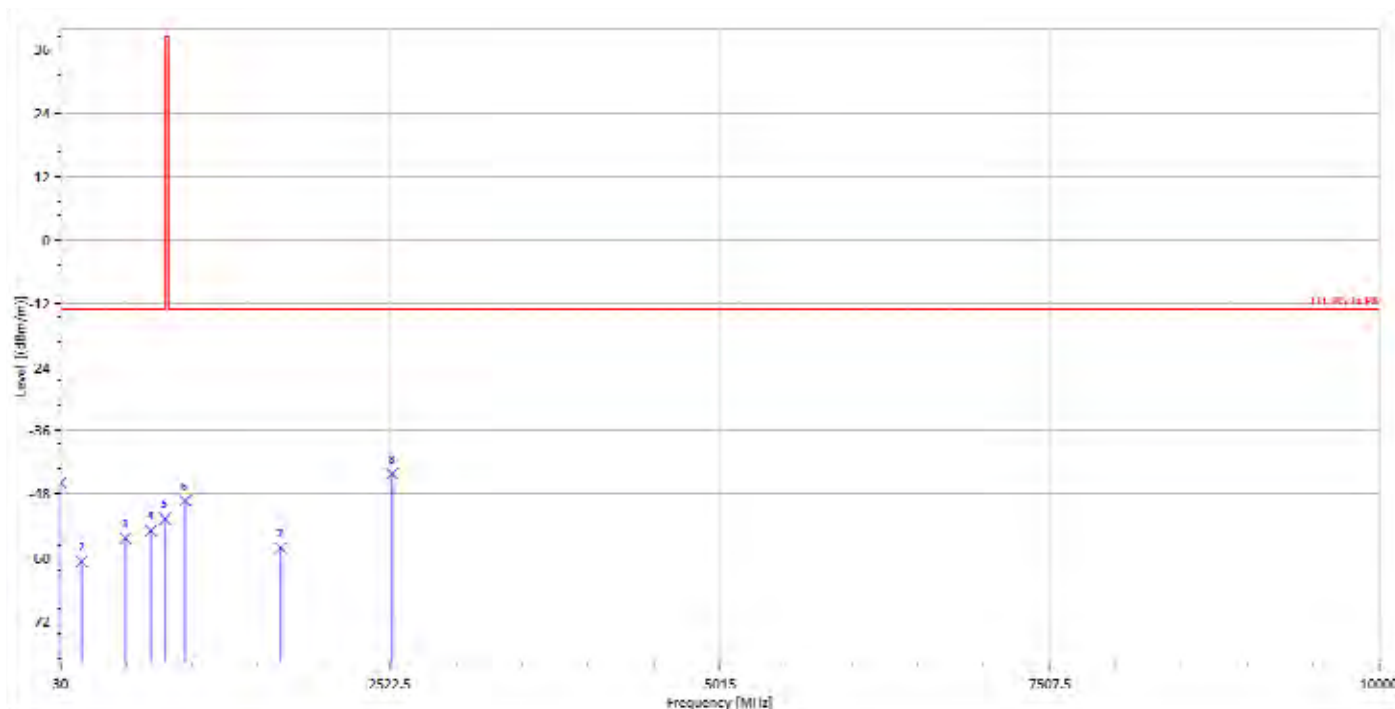
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Operation Mode :	LTEB5 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	848.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
30.97	S	-45.88	-23.68	-21.56	-0.65	-13	-32.88
191.99	S	-60.76	-63.10	3.96	-1.62	-13	-47.76
519.85	S	-56.30	-57.78	4.25	-2.78	-13	-43.30
714.82	S	-54.85	-57.37	5.46	-2.94	-13	-41.85
823.46	S	-52.66	-54.65	5.49	-3.49	-13	-39.66
976.72	S	-49.32	-51.39	5.74	-3.67	-13	-36.32
1693.00	H	-58.19	-60.30	6.91	-4.80	-13	-45.19
2540.00	H	-44.16	-46.58	8.32	-5.91	-13	-31.16

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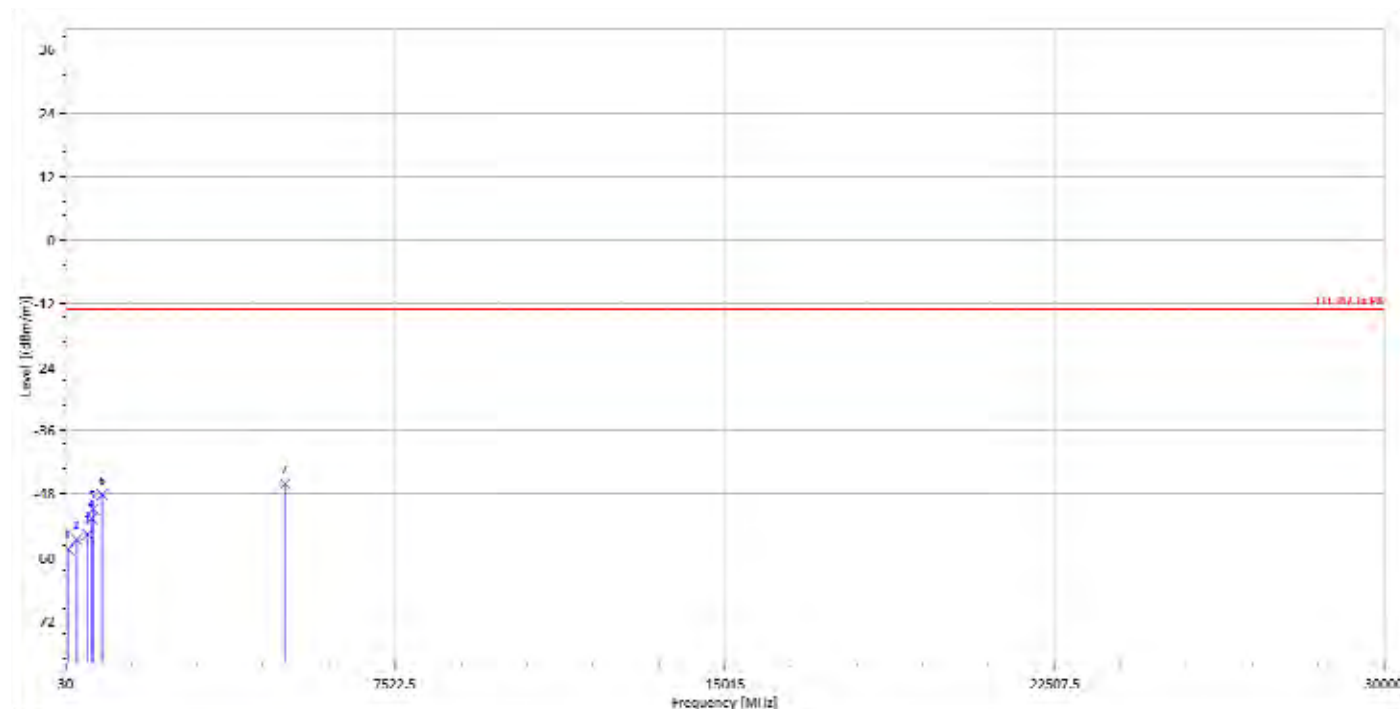
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode :	LTEB7 10M QPSK 1.49	Test Date :	2017/7/5
Fundamental Frequency :	2505.0 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
93.05	S	-58.43	-56.56	-0.28	-1.60	-13.01	-45.42
286.08	S	-56.55	-59.42	5.82	-2.95	-13.01	-43.54
537.31	S	-55.59	-57.76	6.41	-4.24	-13.01	-42.58
639.16	S	-52.54	-55.03	7.03	-4.54	-13.01	-39.53
662.44	S	-50.91	-53.65	7.20	-4.47	-13.01	-37.90
874.87	S	-48.17	-50.40	7.70	-5.46	-13.01	-35.16
5018.00	H	-46.09	-50.11	12.31	-8.30	-13.01	-33.08

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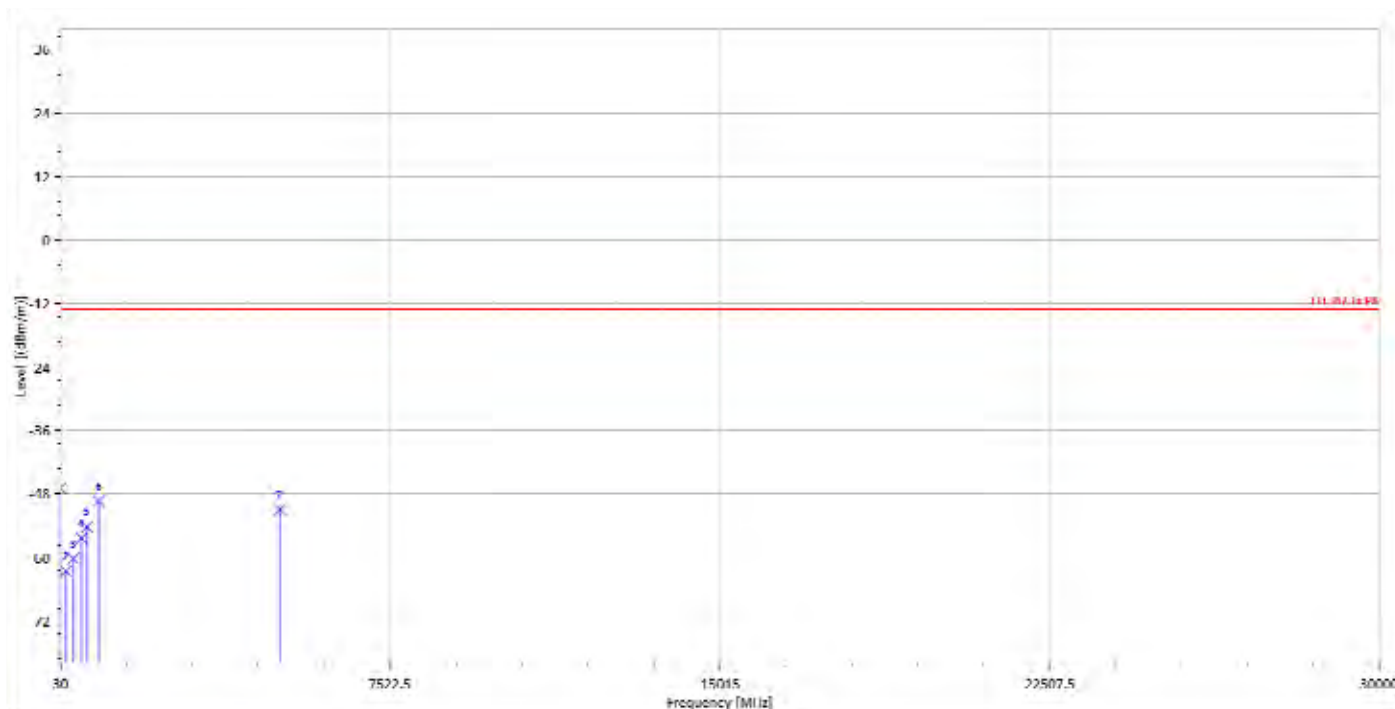
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f (886-2) 2298-0488

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Operation Mode :	LTEB7 10M QPSK 1.49	Test Date :	2017/7/5
Fundamental Frequency :	2505.0 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-46.91	-27.45	-18.56	-0.90	-13.01	-33.90
155.13	S	-62.56	-63.50	3.08	-2.14	-13.01	-49.55
328.76	S	-60.21	-62.98	5.92	-3.14	-13.01	-47.20
513.06	S	-56.27	-58.61	6.40	-4.06	-13.01	-43.26
640.13	S	-54.14	-56.77	7.03	-4.40	-13.01	-41.13
915.61	S	-49.38	-51.58	7.82	-5.61	-13.01	-36.37
5018.00	H	-51.02	-55.03	12.31	-8.30	-13.01	-38.01

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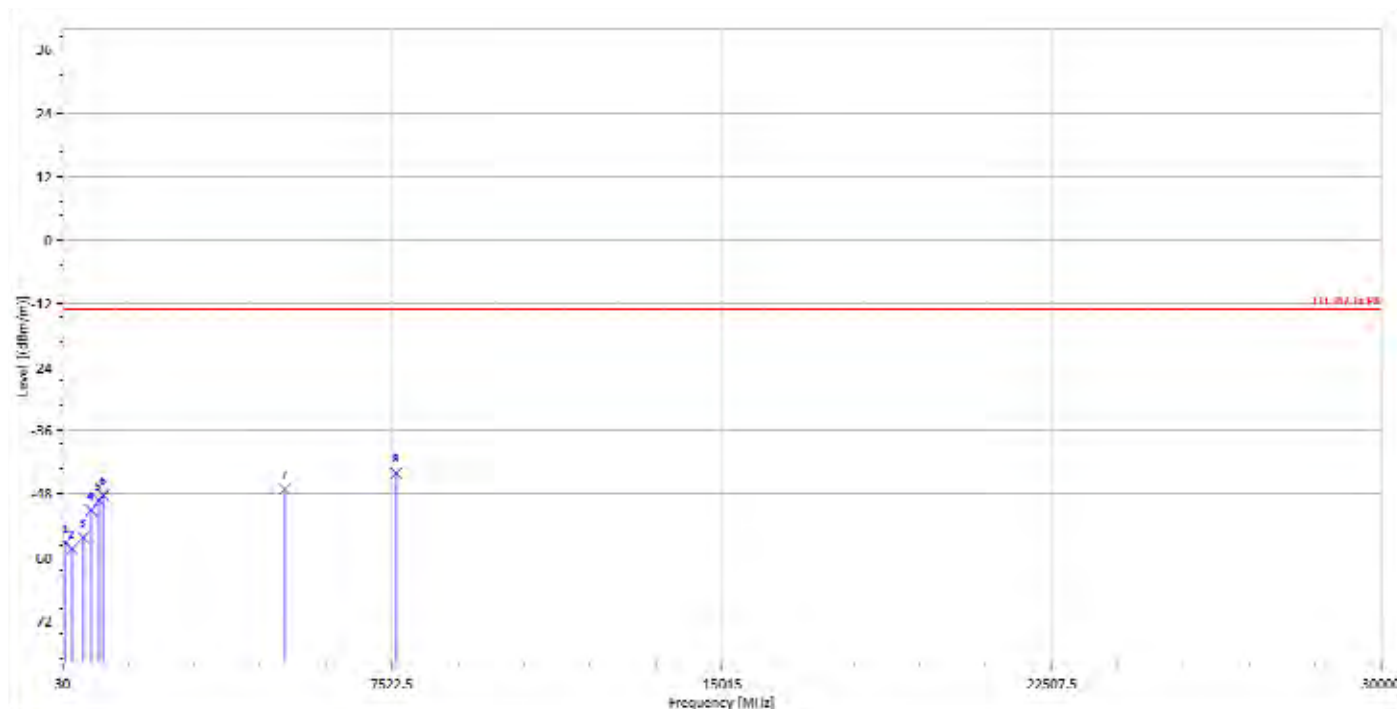
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Operation Mode :	LTEB7 10M QPSK 1.49	Test Date :	2017/7/5
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-57.17	-54.82	-0.70	-1.64	-13.01	-44.16
249.22	S	-58.31	-60.86	5.30	-2.76	-13.01	-45.30
507.24	S	-56.15	-58.68	6.39	-3.86	-13.01	-43.14
688.63	S	-51.14	-53.85	7.49	-4.77	-13.01	-38.13
868.08	S	-49.27	-51.75	7.67	-5.18	-13.01	-36.26
966.05	S	-48.29	-50.15	7.88	-6.01	-13.01	-35.28
5081.00	H	-47.11	-51.06	12.35	-8.40	-13.01	-34.10
7622.00	H	-44.04	-44.45	10.68	-10.27	-13.01	-31.03

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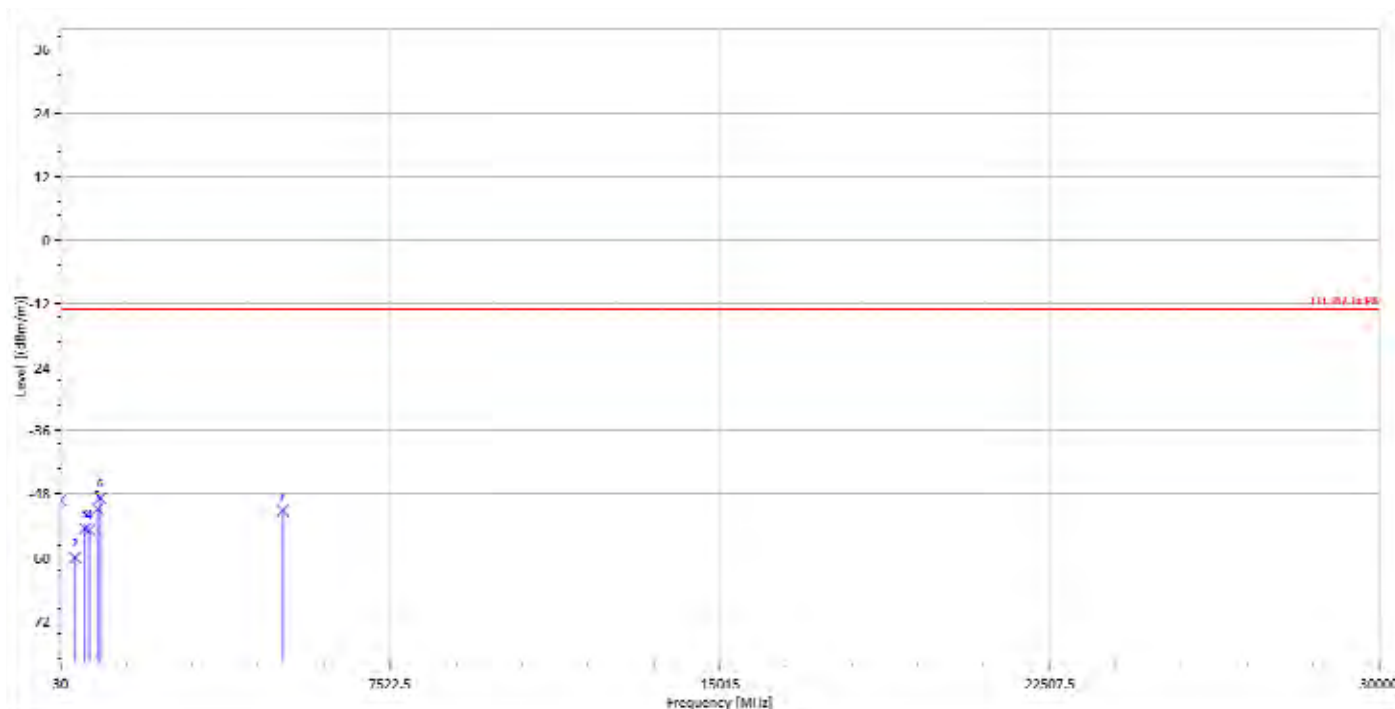
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Operation Mode :	LTEB7 10M QPSK 1.49	Test Date :	2017/7/5
Fundamental Frequency :	2535 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
34.85	S	-49.16	-32.16	-16.04	-0.96	-13.01	-36.15
362.71	S	-60.02	-62.48	5.86	-3.40	-13.01	-47.01
593.57	S	-54.48	-56.49	6.81	-4.80	-13.01	-41.47
694.45	S	-54.70	-57.47	7.55	-4.78	-13.01	-41.69
886.51	S	-50.88	-53.10	7.74	-5.52	-13.01	-37.87
948.59	S	-48.79	-50.66	7.86	-6.00	-13.01	-35.78
5081.00	H	-51.17	-55.12	12.35	-8.40	-13.01	-38.16

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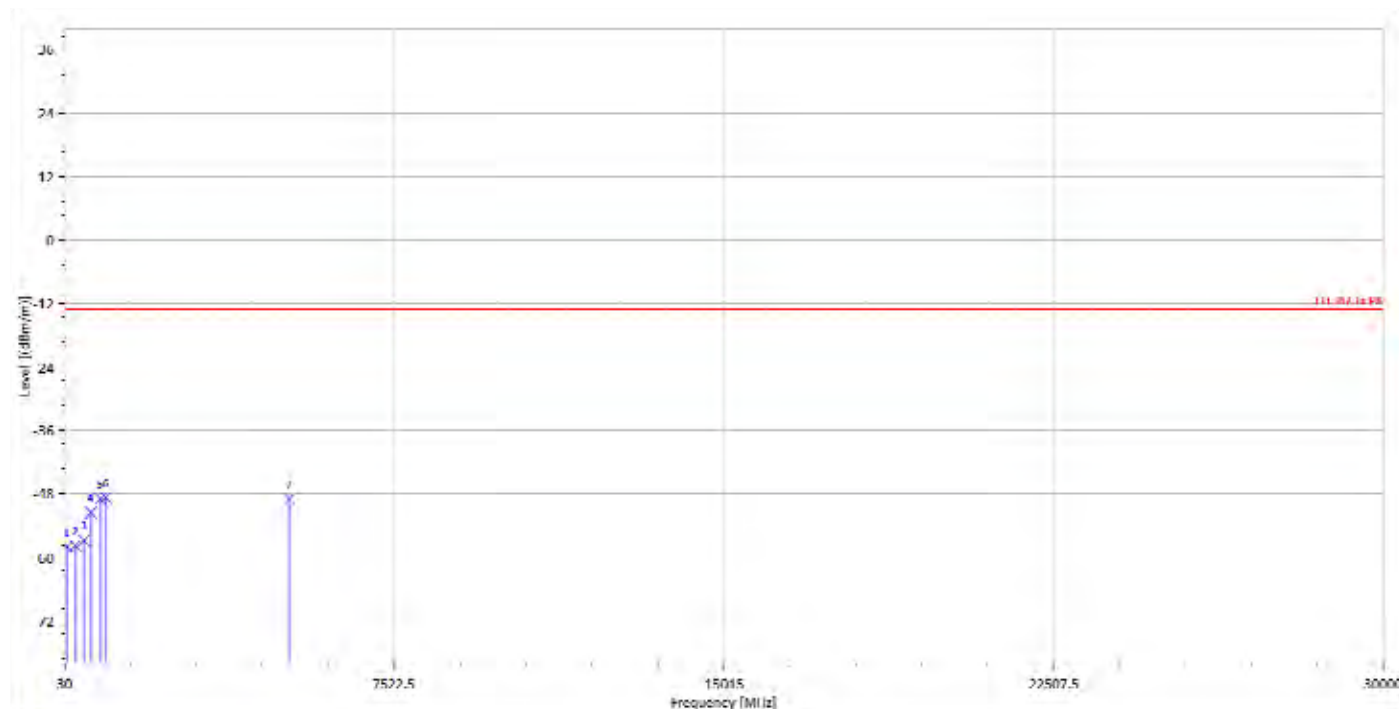
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Operation Mode :	LTEB7 10M QPSK 1.49	Test Date :	2017/7/5
Fundamental Frequency :	2565 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
91.11	S	-57.91	-56.21	-0.10	-1.60	-13.01	-44.90
280.26	S	-57.71	-60.53	5.76	-2.94	-13.01	-44.70
479.11	S	-56.74	-59.01	6.34	-4.08	-13.01	-43.73
640.13	S	-51.51	-54.14	7.03	-4.40	-13.01	-38.50
859.35	S	-48.91	-51.45	7.64	-5.10	-13.01	-35.90
981.57	S	-48.71	-50.89	7.89	-5.72	-13.01	-35.70
5137.00	H	-48.96	-52.92	12.38	-8.41	-13.01	-35.95

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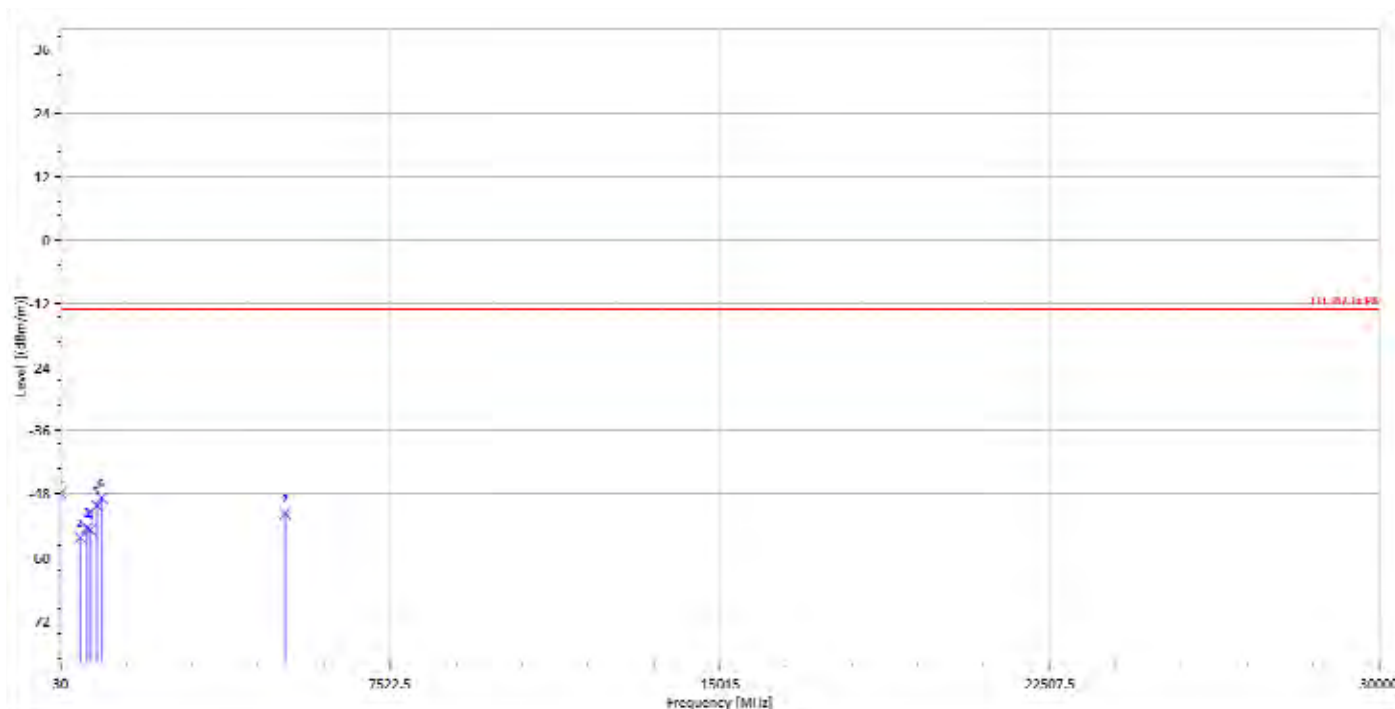
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Operation Mode :	LTEB7 10M QPSK 1.49	Test Date :	2017/7/5
Fundamental Frequency :	2565 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
33.88	S	-47.89	-30.07	-16.88	-0.93	-13.01	-34.88
482.99	S	-56.18	-58.60	6.35	-3.93	-13.01	-43.17
641.10	S	-54.36	-56.84	7.03	-4.56	-13.01	-41.35
720.64	S	-54.72	-57.13	7.61	-5.20	-13.01	-41.71
869.05	S	-50.24	-52.64	7.67	-5.27	-13.01	-37.23
977.69	S	-48.78	-50.73	7.89	-5.94	-13.01	-35.77
5137.00	H	-51.62	-55.59	12.38	-8.41	-13.01	-38.61

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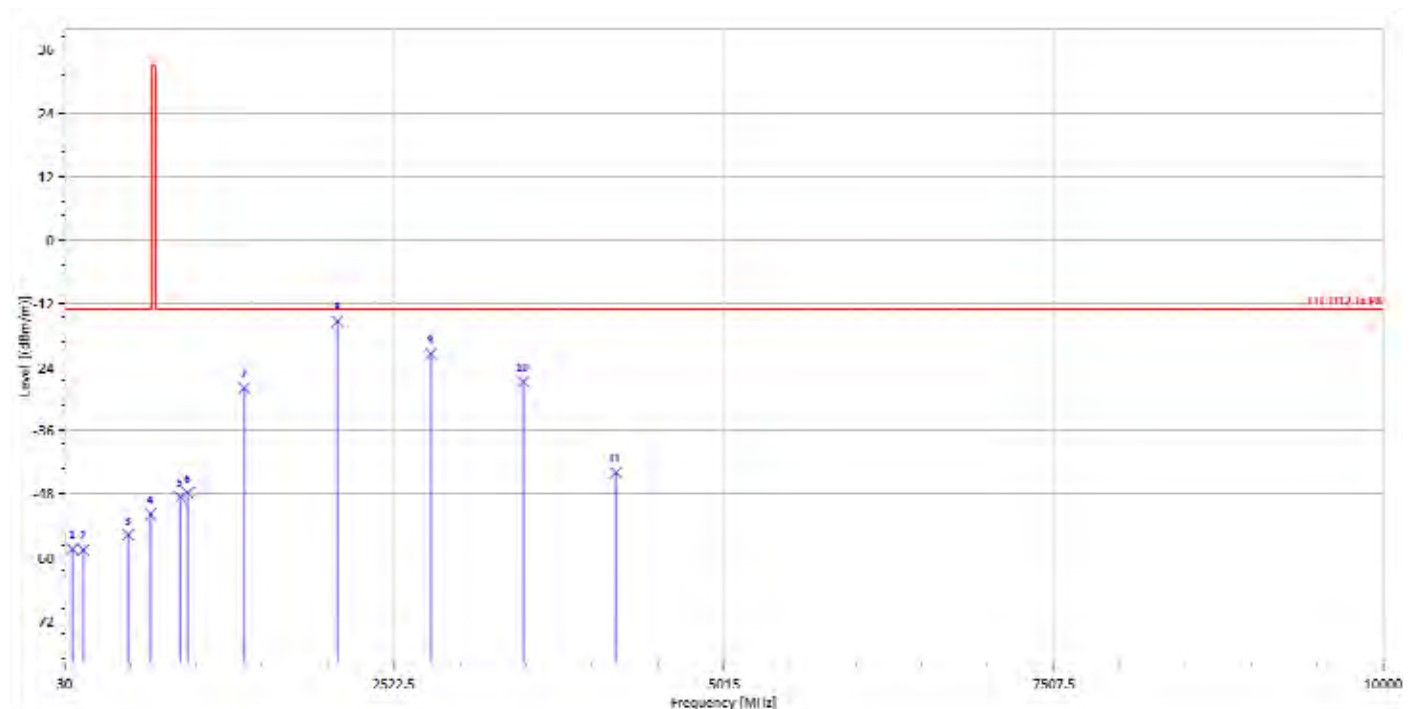
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode :	LTEB12 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	699.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
91.11	S	-58.38	-55.01	-2.25	-1.12	-13	-45.38
174.53	S	-58.57	-60.00	3.02	-1.58	-13	-45.57
511.12	S	-55.67	-57.15	4.25	-2.77	-13	-42.67
681.84	S	-51.81	-54.38	5.26	-2.70	-13	-38.81
908.82	S	-48.61	-50.86	5.66	-3.41	-13	-35.61
966.05	S	-47.83	-49.92	5.73	-3.64	-13	-34.83
1392.00	H	-27.90	-29.40	5.84	-4.34	-13	-14.90
2099.00	H	-15.33	-17.97	8.01	-5.37	-13	-2.33
2799.00	H	-21.56	-24.11	8.79	-6.23	-13	-8.56
3499.00	H	-26.74	-29.81	10.15	-7.07	-13	-13.74
4199.00	H	-43.91	-46.53	10.23	-7.61	-13	-30.91

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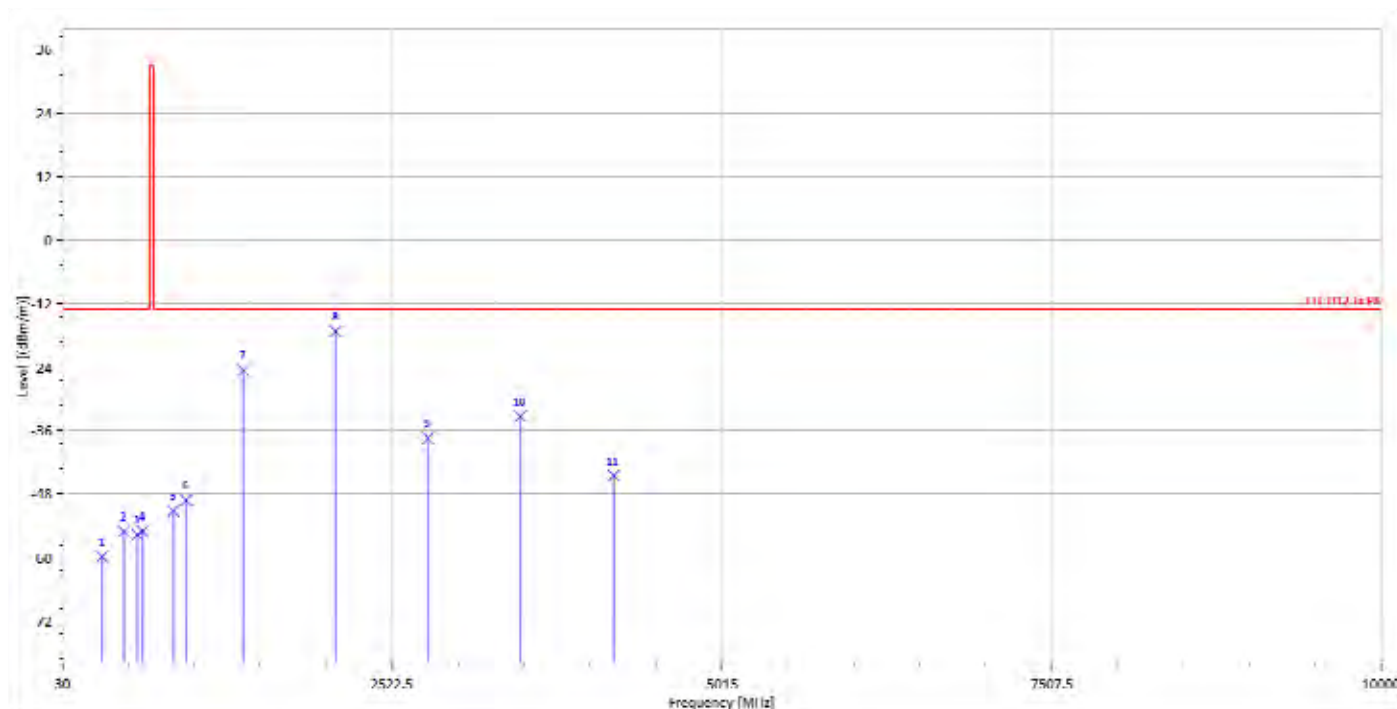
t (886-2) 2299-3279

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Operation Mode :	LTEB12 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	699.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
332.64	S	-59.83	-61.46	3.76	-2.13	-13	-46.83
492.69	S	-55.02	-56.75	4.22	-2.49	-13	-42.02
595.51	S	-55.62	-57.40	4.68	-2.90	-13	-42.62
636.25	S	-54.99	-56.87	4.86	-2.99	-13	-41.99
872.93	S	-51.23	-53.21	5.54	-3.56	-13	-38.23
968.96	S	-49.21	-51.29	5.73	-3.66	-13	-36.21
1399.00	H	-24.57	-26.08	5.87	-4.35	-13	-11.57
2099.00	H	-17.23	-19.87	8.01	-5.37	-13	-4.23
2792.00	H	-37.42	-39.94	8.78	-6.25	-13	-24.42
3492.00	H	-33.33	-36.49	10.13	-6.98	-13	-20.33
4199.00	H	-44.47	-47.09	10.23	-7.61	-13	-31.47

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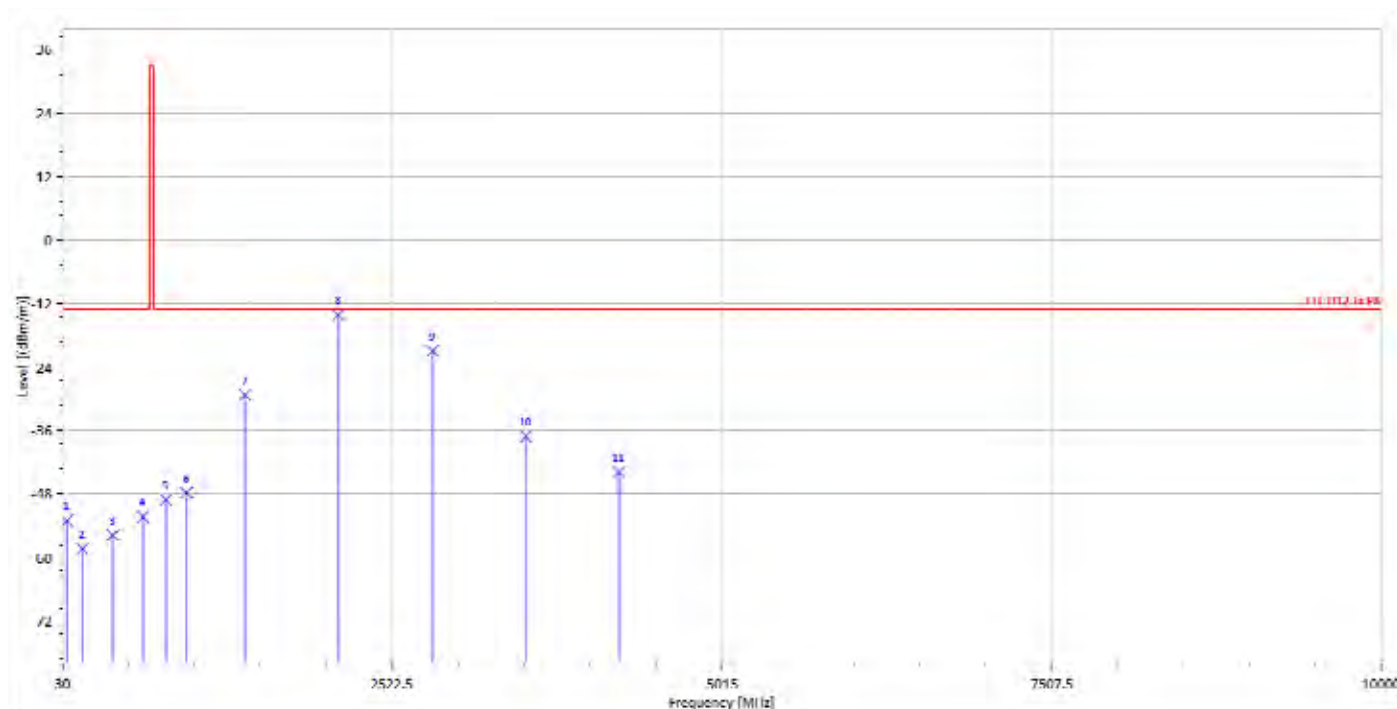
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Operation Mode :	LTEB12 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
63.95	S	-52.97	-49.48	-2.55	-0.93	-13	-39.97
183.26	S	-58.34	-60.45	3.72	-1.60	-13	-45.34
413.15	S	-55.73	-57.18	3.74	-2.29	-13	-42.73
639.16	S	-52.28	-54.26	4.88	-2.89	-13	-39.28
815.70	S	-49.11	-51.40	5.50	-3.21	-13	-36.11
970.90	S	-47.77	-50.12	5.73	-3.38	-13	-34.77
1413.00	H	-29.29	-30.83	5.92	-4.37	-13	-16.29
2120.00	H	-14.08	-16.69	8.02	-5.42	-13	-1.08
2827.00	H	-20.99	-23.59	8.84	-6.24	-13	-7.99
3534.00	H	-37.09	-40.24	10.15	-7.00	-13	-24.09
4241.00	H	-43.85	-46.47	10.25	-7.63	-13	-30.85

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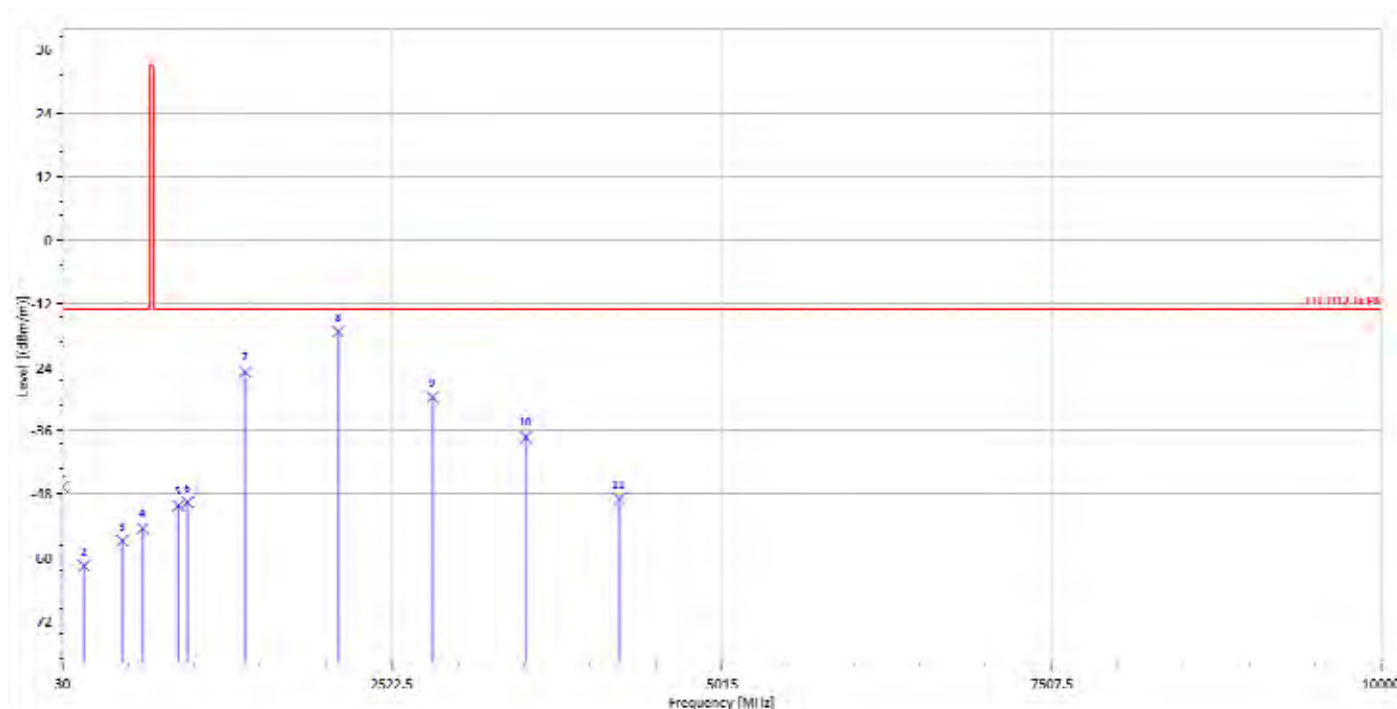
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Operation Mode :	LTEB12 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	707.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-46.69	-25.32	-20.71	-0.67	-13	-33.69
194.90	S	-61.61	-63.83	3.86	-1.64	-13	-48.61
482.02	S	-56.80	-58.38	4.20	-2.62	-13	-43.80
637.22	S	-54.44	-56.31	4.87	-3.00	-13	-41.44
909.79	S	-50.26	-52.50	5.66	-3.42	-13	-37.26
978.66	S	-49.60	-51.59	5.74	-3.76	-13	-36.60
1413.00	H	-24.88	-26.43	5.92	-4.37	-13	-11.88
2120.00	H	-17.29	-19.90	8.02	-5.42	-13	-4.29
2827.00	H	-29.71	-32.31	8.84	-6.24	-13	-16.71
3534.00	H	-37.26	-40.40	10.15	-7.00	-13	-24.26
4241.00	H	-48.99	-51.61	10.25	-7.63	-13	-35.99

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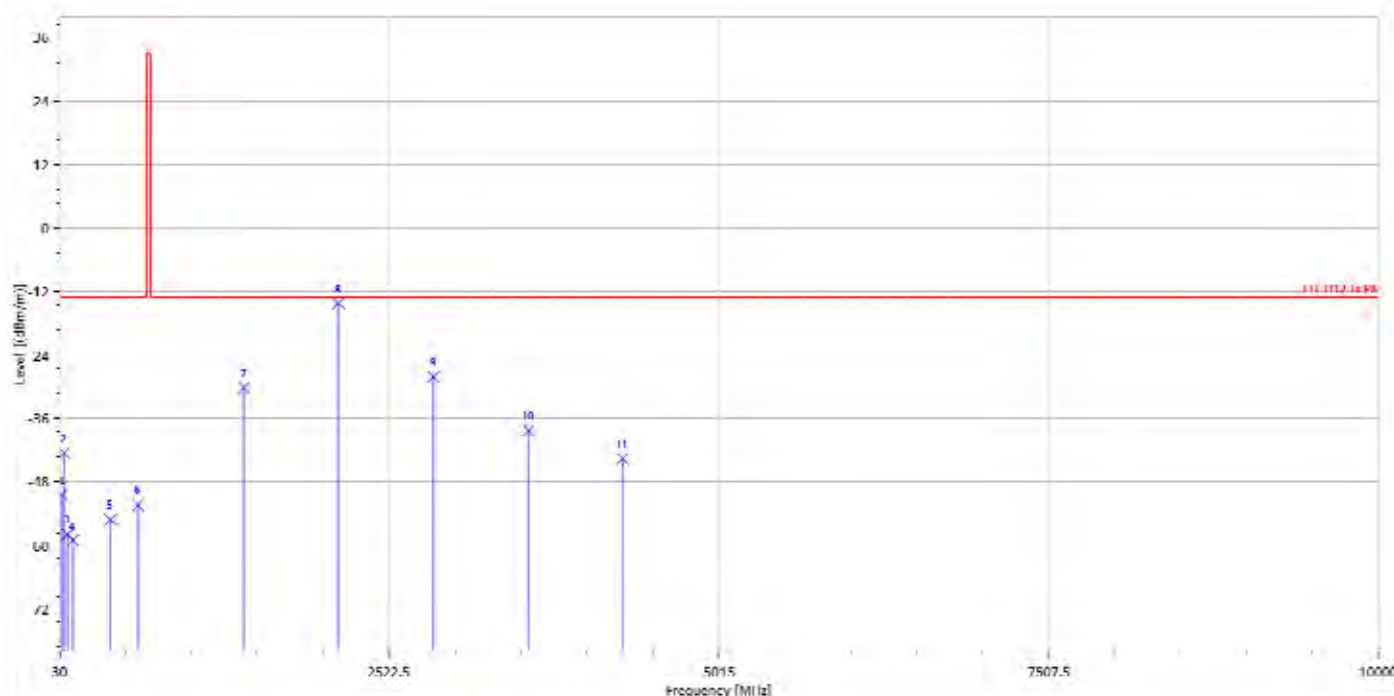
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Operation Mode :	LTEB12 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	715.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
47.46	S	-50.46	-41.04	-8.64	-0.77	-13	-37.46
65.89	S	-42.47	-39.24	-2.29	-0.94	-13	-29.47
91.11	S	-57.82	-54.44	-2.25	-1.12	-13	-44.82
132.82	S	-58.98	-55.75	-1.91	-1.32	-13	-45.98
418.00	S	-55.05	-56.21	3.79	-2.63	-13	-42.05
624.61	S	-52.33	-53.99	4.82	-3.16	-13	-39.33
1427.00	H	-30.14	-31.72	5.97	-4.39	-13	-17.14
2141.00	H	-14.16	-16.74	8.03	-5.46	-13	-1.16
2855.00	H	-28.07	-30.67	8.89	-6.30	-13	-15.07
3576.00	H	-38.21	-41.35	10.15	-7.01	-13	-25.21
4290.00	H	-43.54	-46.15	10.27	-7.66	-13	-30.54

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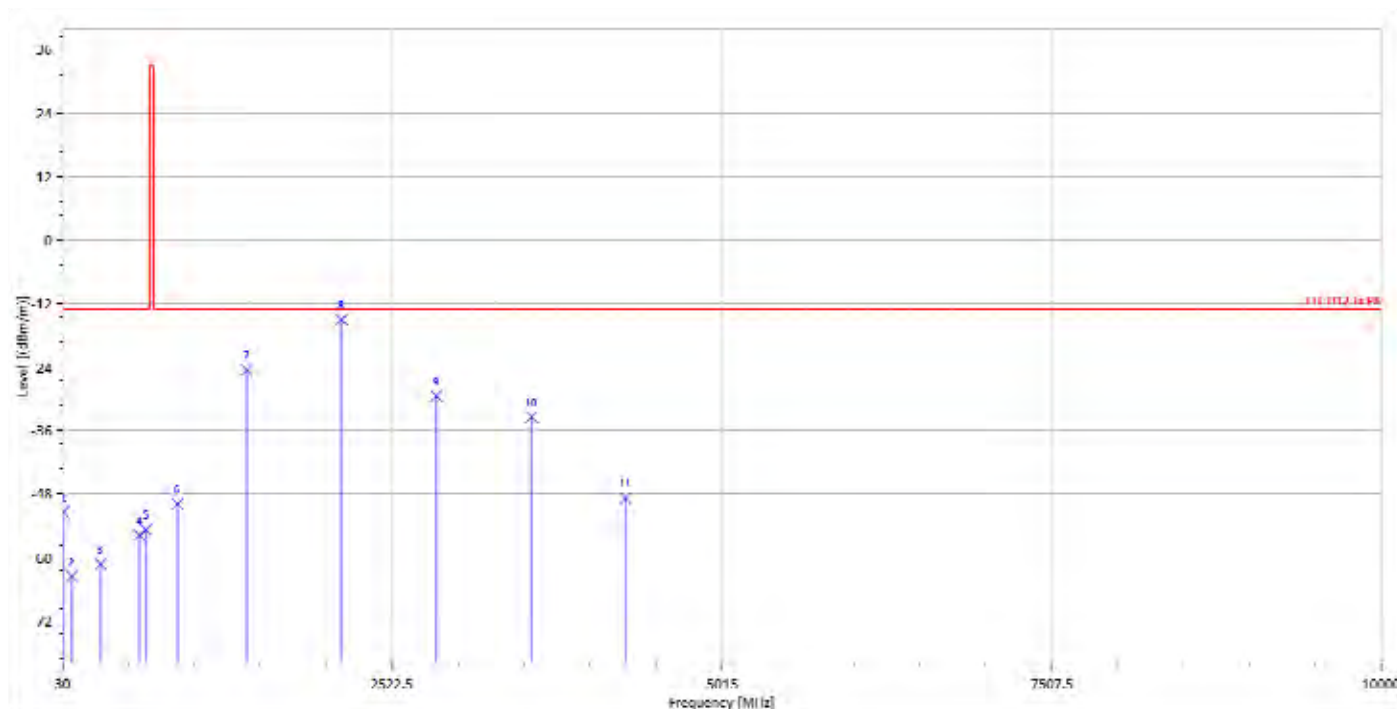
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Operation Mode :	LTEB12 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	715.3 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
37.76	S	-51.43	-34.91	-15.82	-0.70	-13	-38.43
101.78	S	-63.58	-59.29	-3.11	-1.18	-13	-50.58
322.94	S	-61.27	-62.95	3.77	-2.10	-13	-48.27
611.03	S	-55.78	-57.68	4.77	-2.86	-13	-42.78
662.44	S	-54.71	-56.99	5.05	-2.78	-13	-41.71
903.97	S	-49.93	-52.02	5.65	-3.56	-13	-36.93
1427.00	H	-24.53	-26.11	5.97	-4.39	-13	-11.53
2141.00	H	-15.03	-17.61	8.03	-5.46	-13	-2.03
2855.00	H	-29.42	-32.01	8.89	-6.30	-13	-16.42
3576.00	H	-33.47	-36.61	10.15	-7.01	-13	-20.47
4290.00	H	-48.83	-51.44	10.27	-7.66	-13	-35.83

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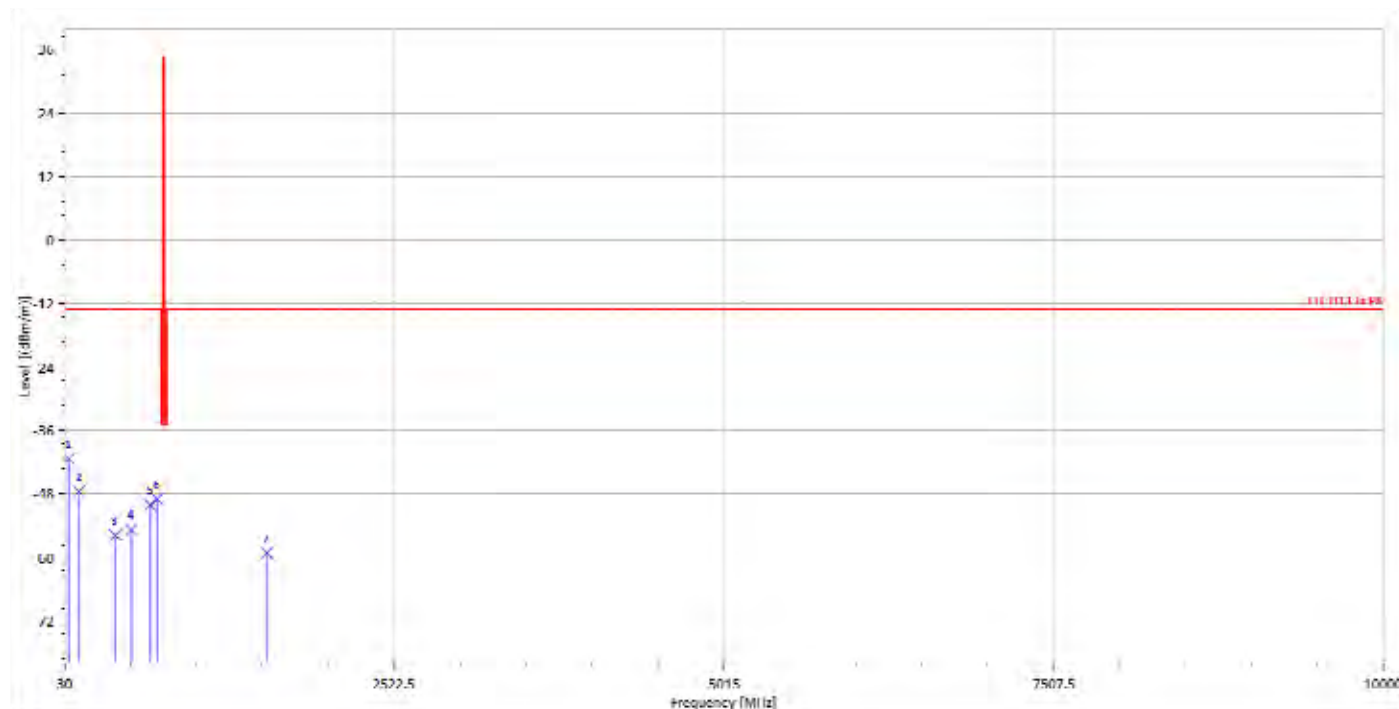
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode :	LTEB13 10M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
62.98	S	-41.25	-37.60	-2.68	-0.98	-13	-28.25
140.58	S	-47.54	-45.21	-0.94	-1.40	-13	-34.54
418.00	S	-55.76	-56.92	3.79	-2.63	-13	-42.76
535.37	S	-54.72	-56.49	4.26	-2.49	-13	-41.72
679.90	S	-50.11	-52.34	5.24	-3.01	-13	-37.11
732.28	S	-49.01	-51.53	5.46	-2.94	-13	-36.01
1564.00	H	-59.13	-61.00	6.47	-4.60	-13	-46.13

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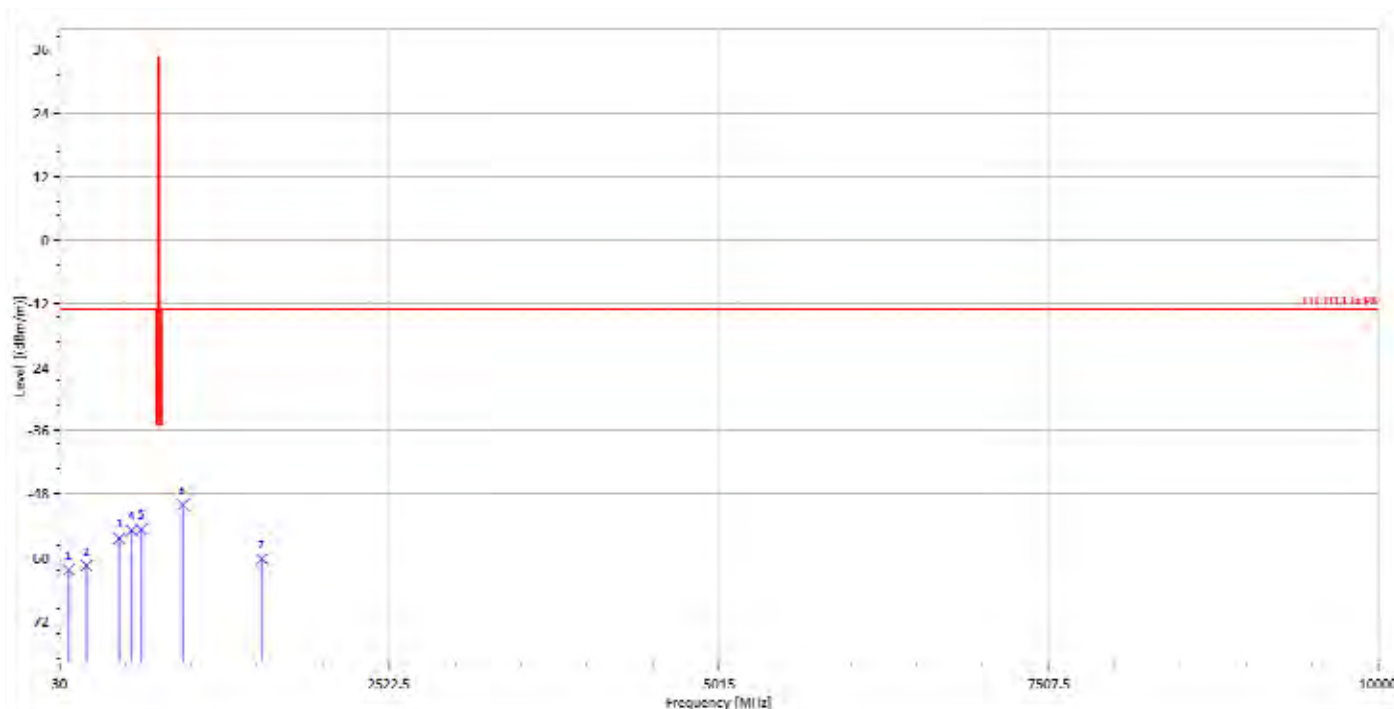
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Operation Mode :	LTEB13 10M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dB	dB	dBm/m	dB
100.81	S	-62.36	-58.12	-3.07	-1.17	-13	-49.36
236.61	S	-61.54	-63.49	3.74	-1.80	-13	-48.54
480.08	S	-56.35	-57.95	4.19	-2.60	-13	-43.35
574.17	S	-54.84	-56.28	4.49	-3.04	-13	-41.84
649.83	S	-54.63	-56.87	4.92	-2.68	-13	-41.63
967.02	S	-50.09	-52.19	5.73	-3.63	-13	-37.09
1564.00	H	-60.27	-62.13	6.47	-4.60	-13	-47.27

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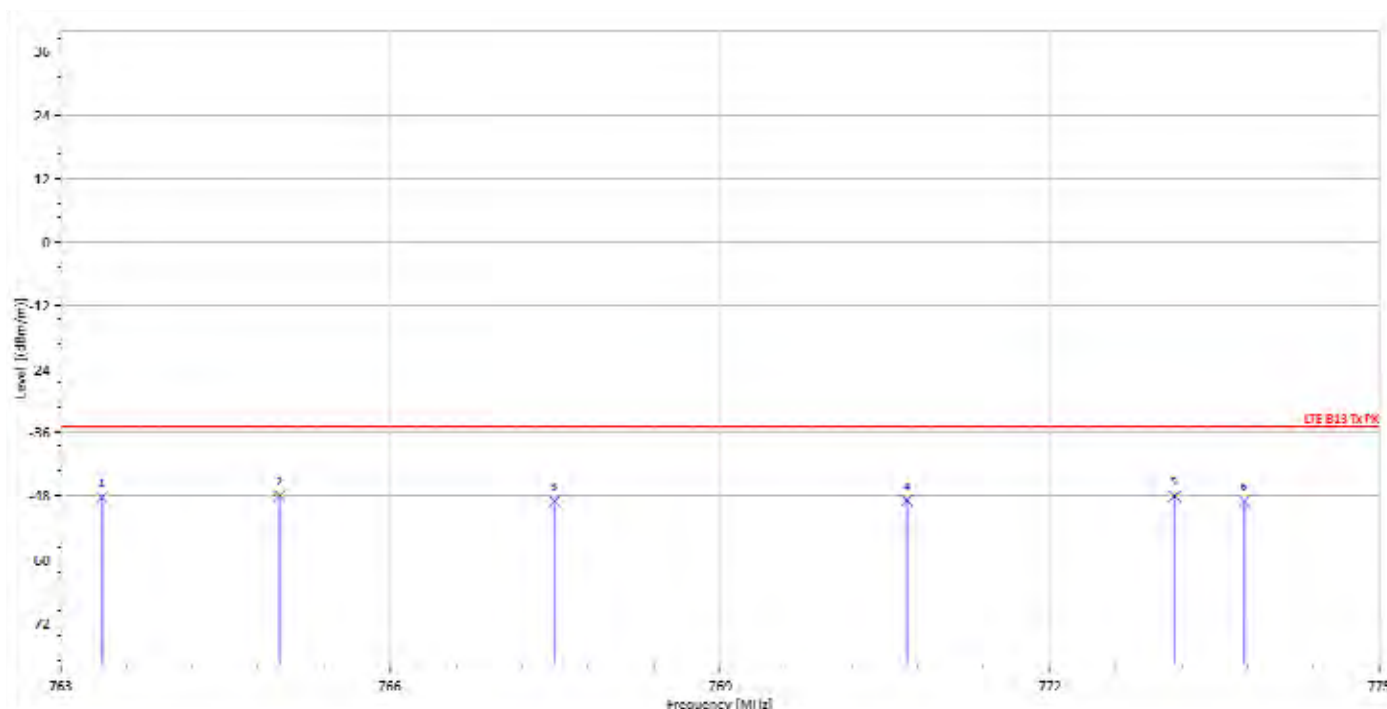
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case) (763~775)

Operation Mode :	LTEB13 10M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
763.38	S	-48.29	-50.72	5.48	-3.05	-35	-13.29
764.99	S	-47.95	-50.57	5.48	-2.86	-35	-12.95
767.50	S	-49.01	-51.28	5.48	-3.21	-35	-14.01
770.70	S	-48.86	-51.00	5.49	-3.35	-35	-13.86
773.14	S	-48.06	-50.45	5.49	-3.09	-35	-13.06
773.78	S	-49.02	-51.54	5.49	-2.97	-35	-14.02

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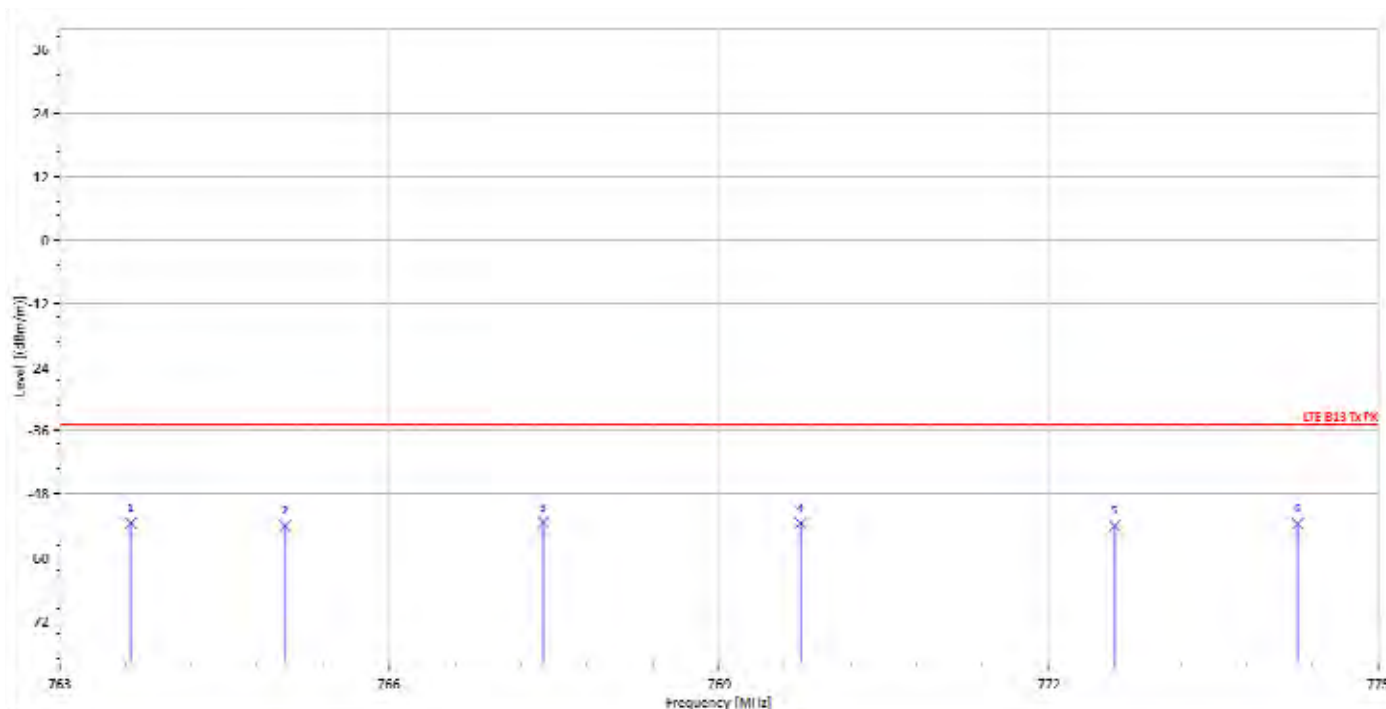
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Operation Mode :	LTEB13 10M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
763.65	S	-53.41	-55.89	5.48	-3.00	-35	-18.41
765.05	S	-53.88	-56.50	5.48	-2.86	-35	-18.88
767.40	S	-53.27	-55.54	5.48	-3.21	-35	-18.27
769.74	S	-53.45	-55.66	5.49	-3.27	-35	-18.45
772.60	S	-53.95	-56.23	5.49	-3.21	-35	-18.95
774.27	S	-53.56	-56.12	5.49	-2.93	-35	-18.56

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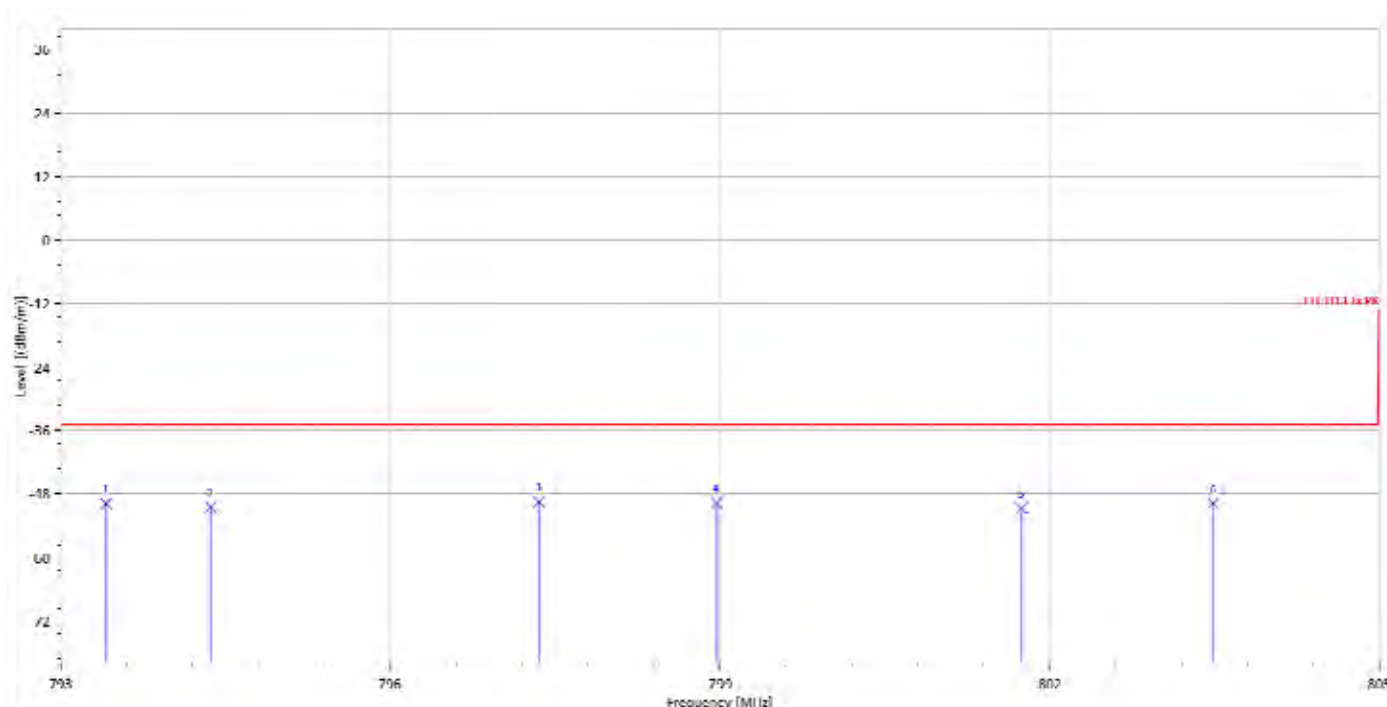
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case) (793-805)

Operation Mode :	LTEB13 10M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
793.42	S	-49.87	-52.16	5.51	-3.23	-35	-14.87
794.37	S	-50.54	-52.84	5.51	-3.22	-35	-15.54
797.36	S	-49.55	-51.94	5.52	-3.13	-35	-14.55
798.98	S	-49.74	-51.91	5.52	-3.35	-35	-14.74
801.75	S	-50.76	-52.94	5.52	-3.34	-35	-15.76
803.49	S	-49.84	-52.02	5.52	-3.33	-35	-14.84

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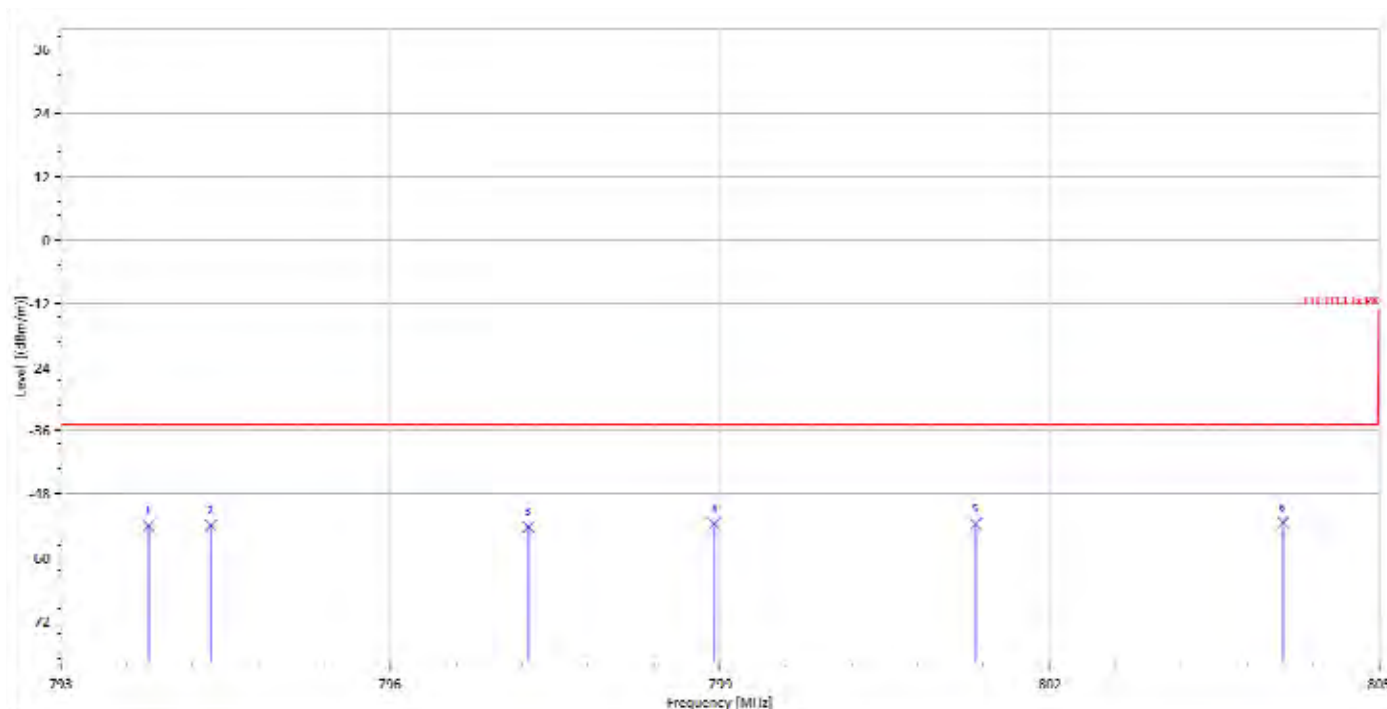
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Operation Mode :	LTEB13 10M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	782 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
793.80	S	-53.94	-56.23	5.51	-3.23	-35	-18.94
794.37	S	-53.87	-56.17	5.51	-3.22	-35	-18.87
797.26	S	-54.13	-56.53	5.52	-3.12	-35	-19.13
798.95	S	-53.53	-55.70	5.52	-3.35	-35	-18.53
801.33	S	-53.60	-55.77	5.52	-3.35	-35	-18.60
804.12	S	-53.31	-55.52	5.52	-3.31	-35	-18.31

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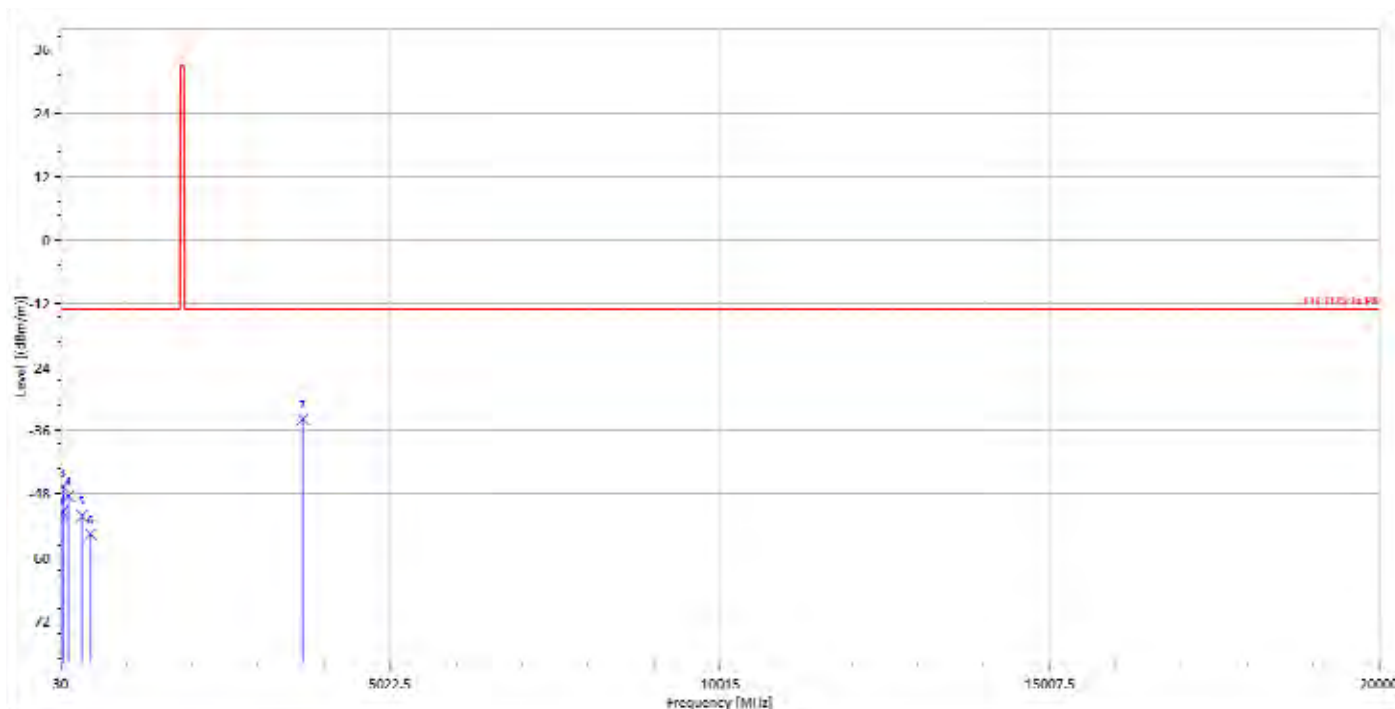
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Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Operation Mode :	LTEB25 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1851.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
35.82	S	-51.88	-35.91	-15.24	-0.73	-13	-38.88
60.07	S	-51.43	-49.63	-0.92	-0.89	-13	-38.43
70.74	S	-46.66	-46.05	0.43	-1.03	-13	-33.66
151.25	S	-48.40	-49.76	2.66	-1.31	-13	-35.40
358.83	S	-52.15	-55.92	5.87	-2.10	-13	-39.15
490.75	S	-55.51	-59.12	6.37	-2.76	-13	-42.51
3702.00	H	-33.88	-39.03	12.30	-7.15	-13	-20.88

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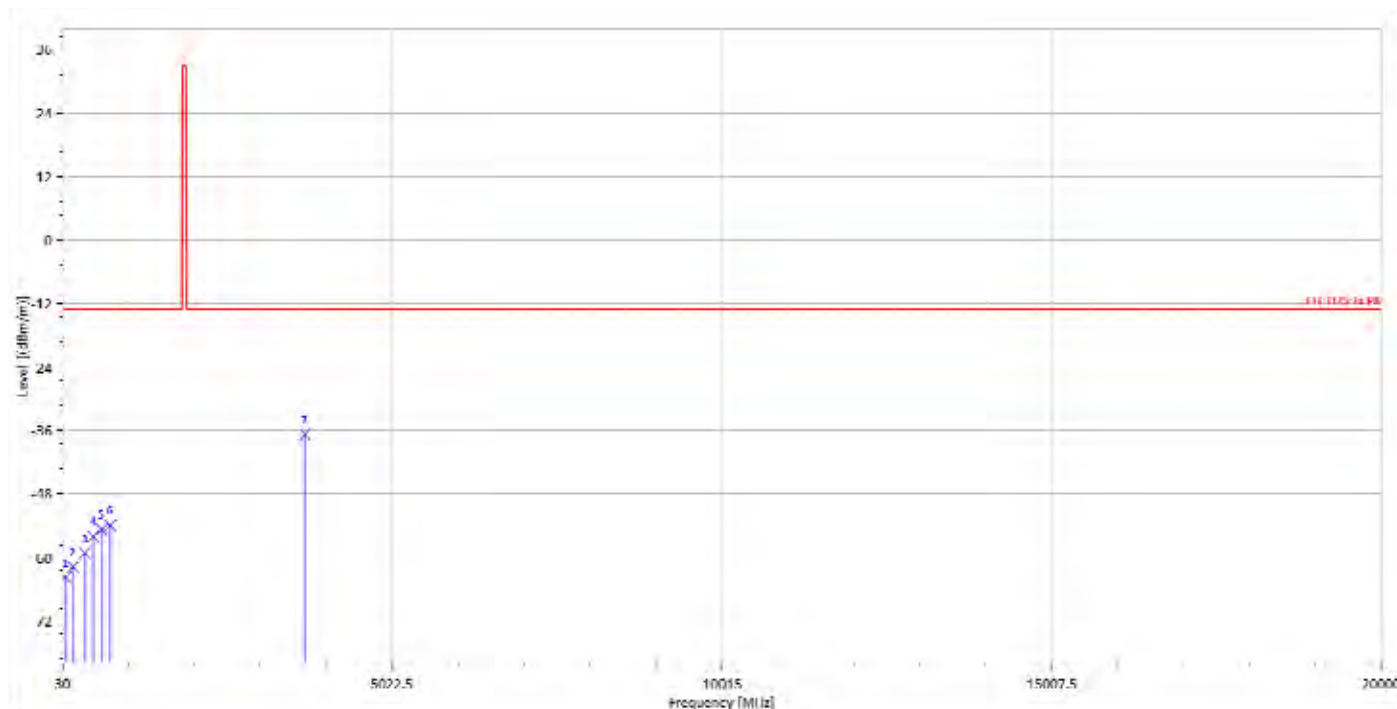
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Operation Mode :	LTEB25 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1851.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
78.50	S	-63.79	-63.39	0.63	-1.03	-13	-50.79
191.02	S	-61.79	-66.32	6.15	-1.62	-13	-48.79
376.29	S	-59.16	-62.71	5.82	-2.27	-13	-46.16
501.42	S	-55.98	-59.66	6.39	-2.70	-13	-42.98
632.37	S	-54.63	-58.85	7.00	-2.78	-13	-41.63
760.41	S	-53.83	-58.20	7.62	-3.26	-13	-40.83
3702.00	H	-36.76	-41.91	12.30	-7.15	-13	-23.76

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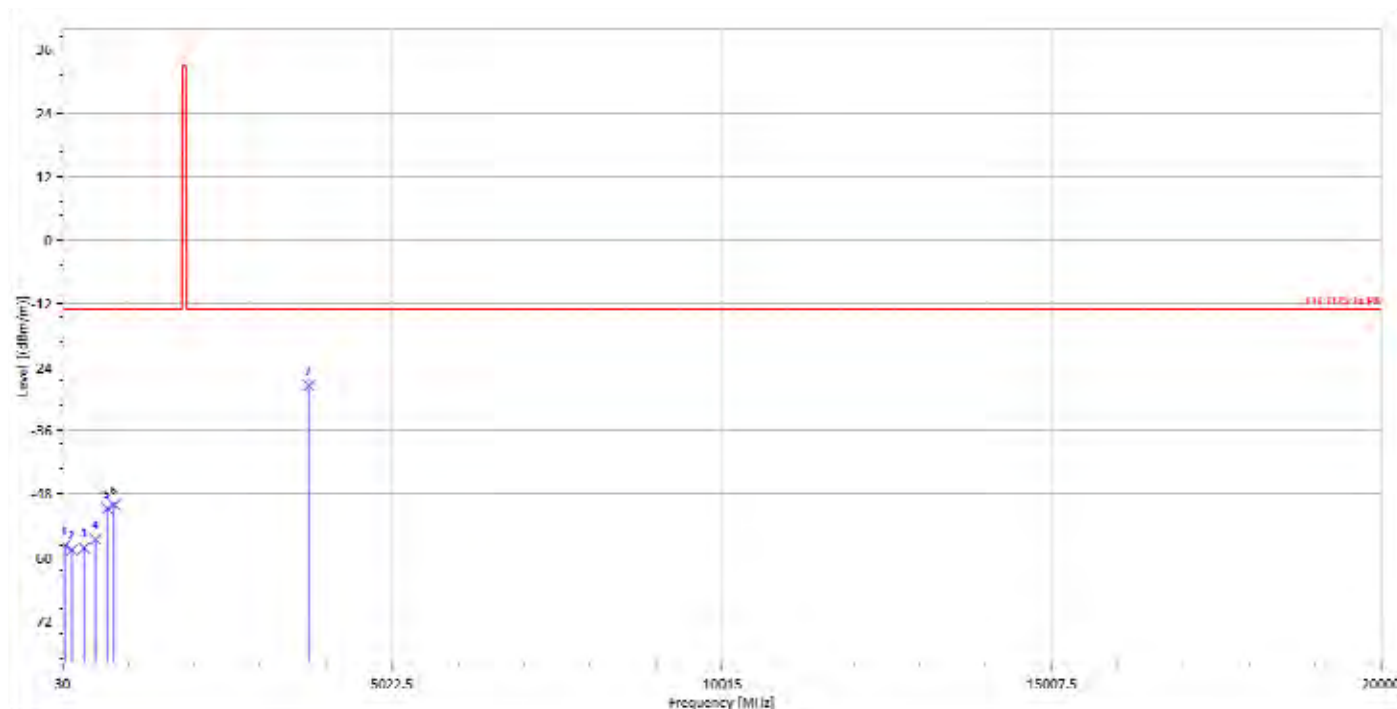
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Operation Mode :	LTEB25 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1882.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
71.71	S	-57.68	-57.10	0.46	-1.03	-13	-44.68
174.53	S	-58.52	-62.11	5.17	-1.58	-13	-45.52
362.71	S	-58.16	-61.78	5.86	-2.24	-13	-45.16
536.34	S	-56.53	-60.37	6.41	-2.57	-13	-43.53
717.73	S	-50.81	-55.19	7.61	-3.24	-13	-37.81
817.64	S	-50.09	-54.50	7.65	-3.23	-13	-37.09
3765.00	H	-27.41	-32.49	12.30	-7.21	-13	-14.41

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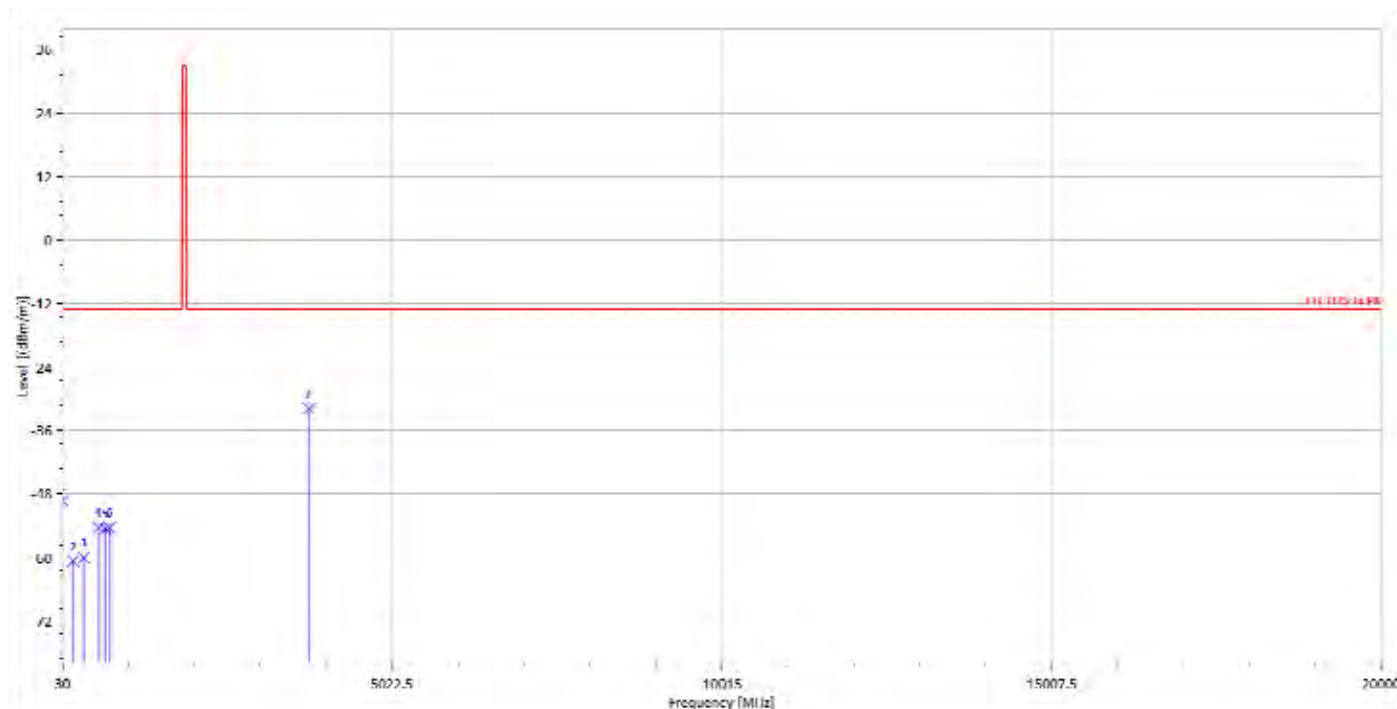
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Operation Mode :	LTEB25 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1882.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
34.85	S	-49.31	-32.56	-16.04	-0.71	-13	-36.31
191.99	S	-60.70	-65.19	6.11	-1.62	-13	-47.70
355.92	S	-60.06	-63.69	5.87	-2.25	-13	-47.06
586.78	S	-54.30	-58.29	6.75	-2.77	-13	-41.30
686.69	S	-54.46	-58.82	7.47	-3.11	-13	-41.46
753.62	S	-54.31	-58.84	7.62	-3.08	-13	-41.31
3765.00	H	-31.81	-36.89	12.30	-7.21	-13	-18.81

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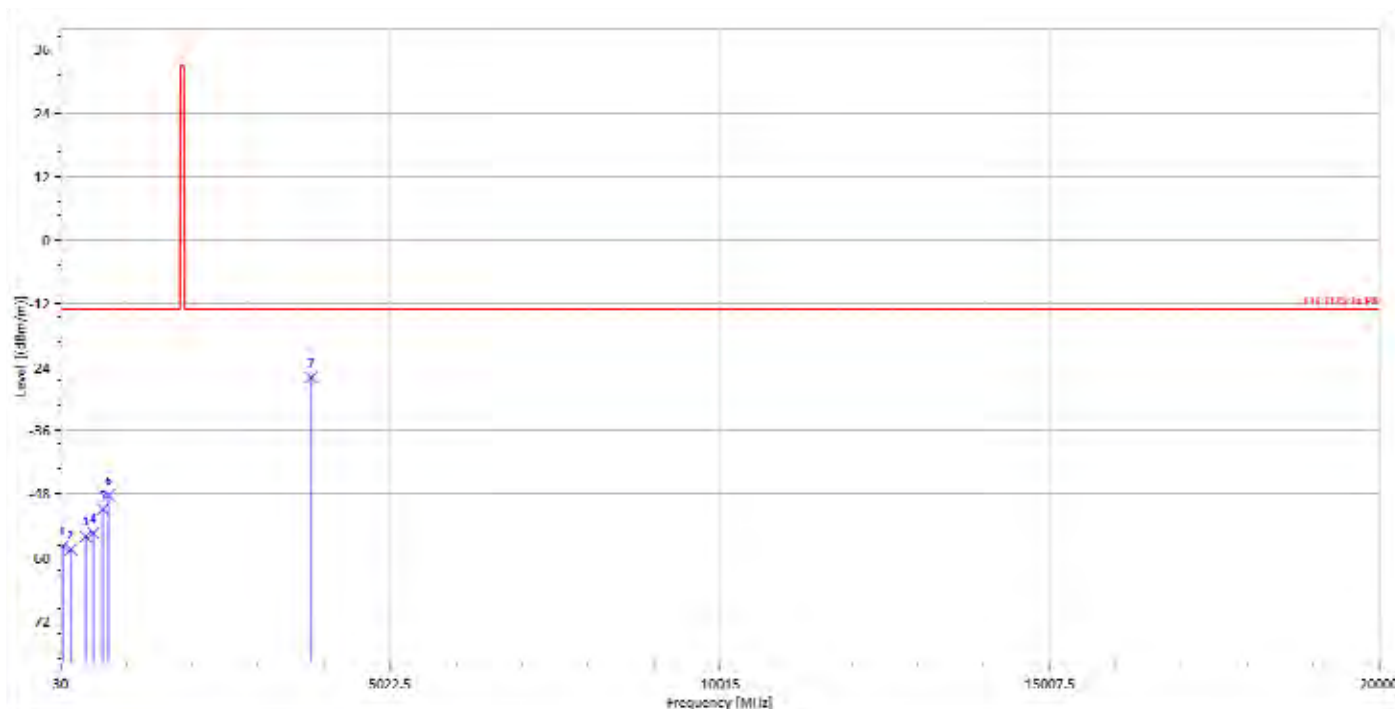
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Operation Mode :	LTEB25 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1913.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
70.74	S	-57.78	-57.18	0.43	-1.03	-13	-44.78
190.05	S	-58.50	-63.07	6.18	-1.61	-13	-45.50
417.03	S	-56.00	-59.32	5.93	-2.61	-13	-43.00
534.40	S	-55.33	-59.17	6.41	-2.57	-13	-42.33
678.93	S	-50.90	-55.18	7.38	-3.11	-13	-37.90
766.23	S	-48.29	-52.90	7.63	-3.02	-13	-35.29
3828.00	H	-25.88	-30.92	12.30	-7.27	-13	-12.88

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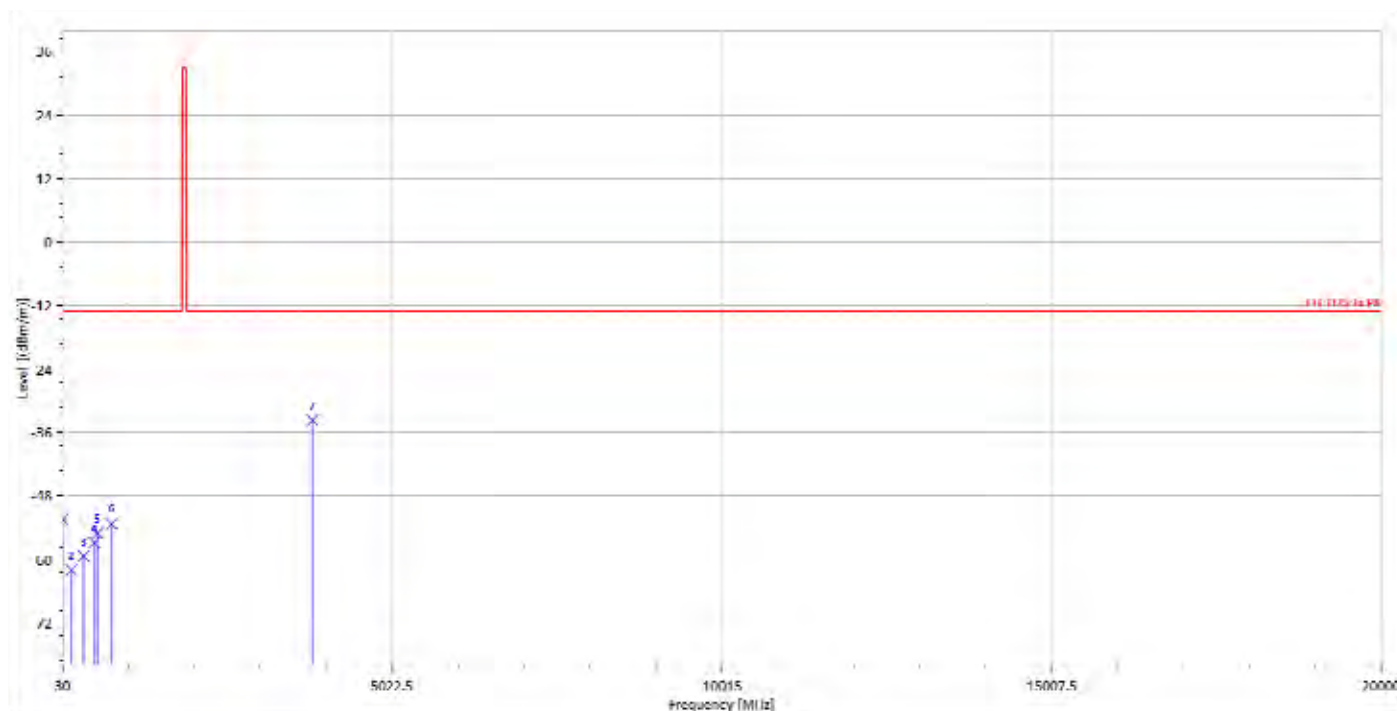
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Operation Mode :	LTEB25 3M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	1913.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
39.70	S	-52.38	-39.55	-12.09	-0.73	-13	-39.38
165.80	S	-62.00	-64.71	4.25	-1.54	-13	-49.00
353.98	S	-59.34	-62.99	5.88	-2.23	-13	-46.34
516.94	S	-56.77	-60.78	6.40	-2.39	-13	-43.77
566.41	S	-54.97	-58.90	6.57	-2.64	-13	-41.97
783.69	S	-53.18	-57.75	7.65	-3.08	-13	-40.18
3821.00	H	-33.72	-38.74	12.30	-7.28	-13	-20.72

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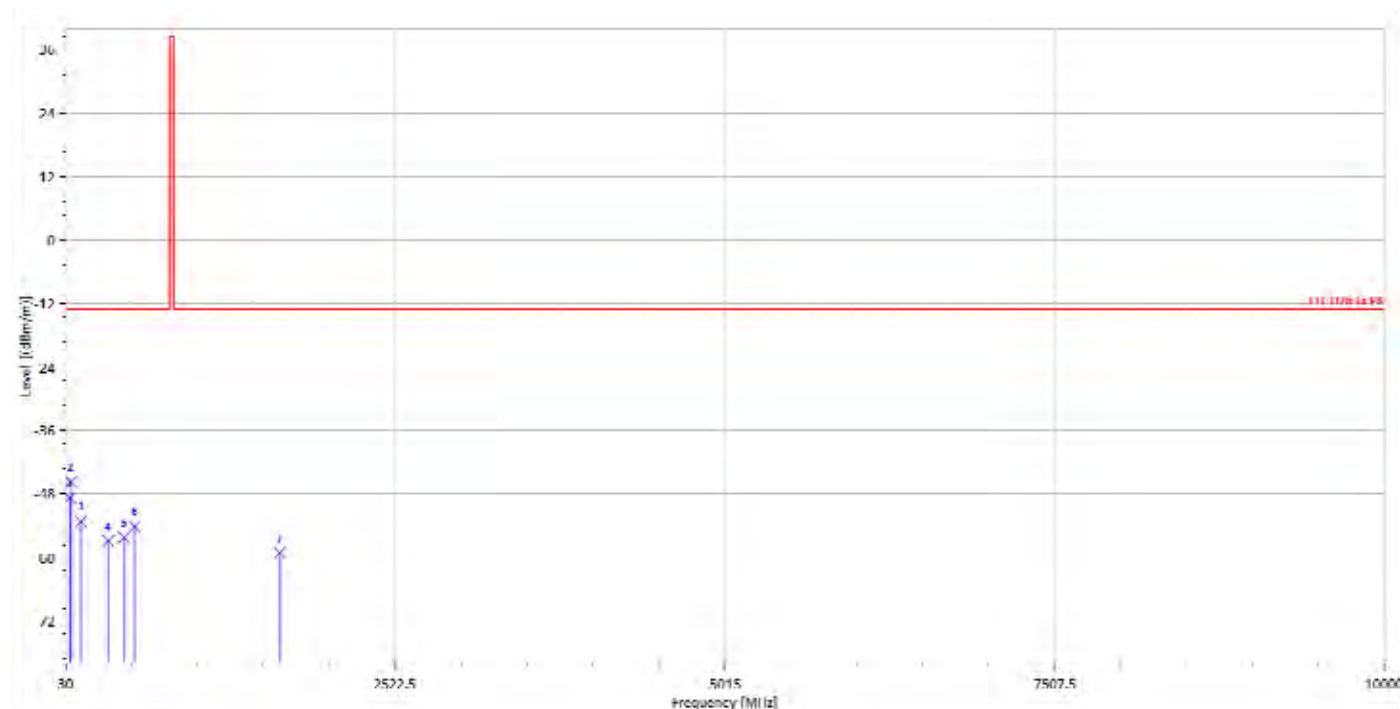
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 824.7 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
62.98	S	-48.74	-45.08	-2.68	-0.98	-13	-35.74
72.68	S	-45.70	-43.02	-1.67	-1.01	-13	-32.70
148.34	S	-53.12	-51.86	0.15	-1.41	-13	-40.12
357.86	S	-56.83	-58.38	3.72	-2.17	-13	-43.83
472.32	S	-56.16	-57.76	4.18	-2.58	-13	-43.16
551.86	S	-54.09	-55.45	4.28	-2.93	-13	-41.09
1649.40	H	-59.10	-61.13	6.76	-4.72	-13	-46.10

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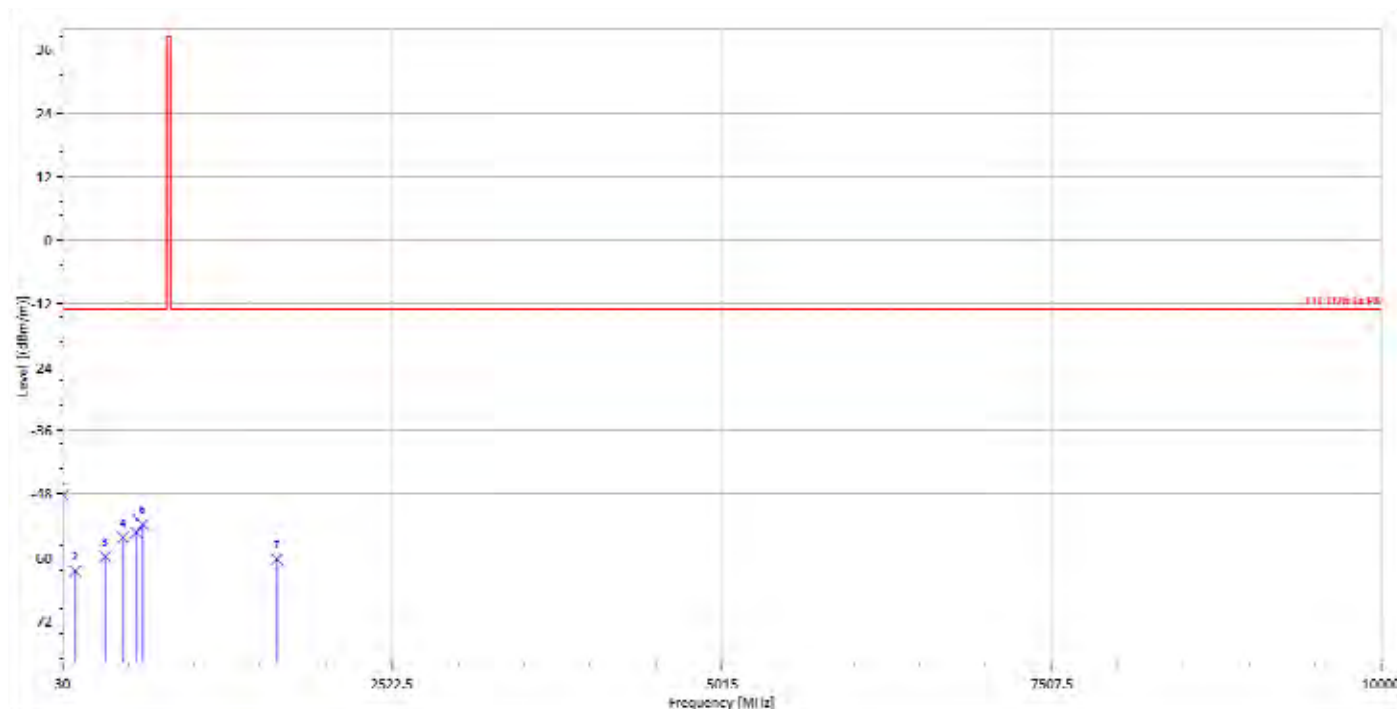
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 824.7 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
34.85	S	-48.24	-29.34	-18.19	-0.71	-13	-35.24
127.97	S	-62.60	-58.83	-2.40	-1.37	-13	-49.60
358.83	S	-59.82	-61.43	3.72	-2.10	-13	-46.82
486.87	S	-56.12	-57.78	4.21	-2.55	-13	-43.12
587.75	S	-55.23	-57.10	4.61	-2.74	-13	-42.23
637.22	S	-53.65	-55.52	4.87	-3.00	-13	-40.65
1649.40	H	-60.33	-62.36	6.76	-4.72	-13	-47.33

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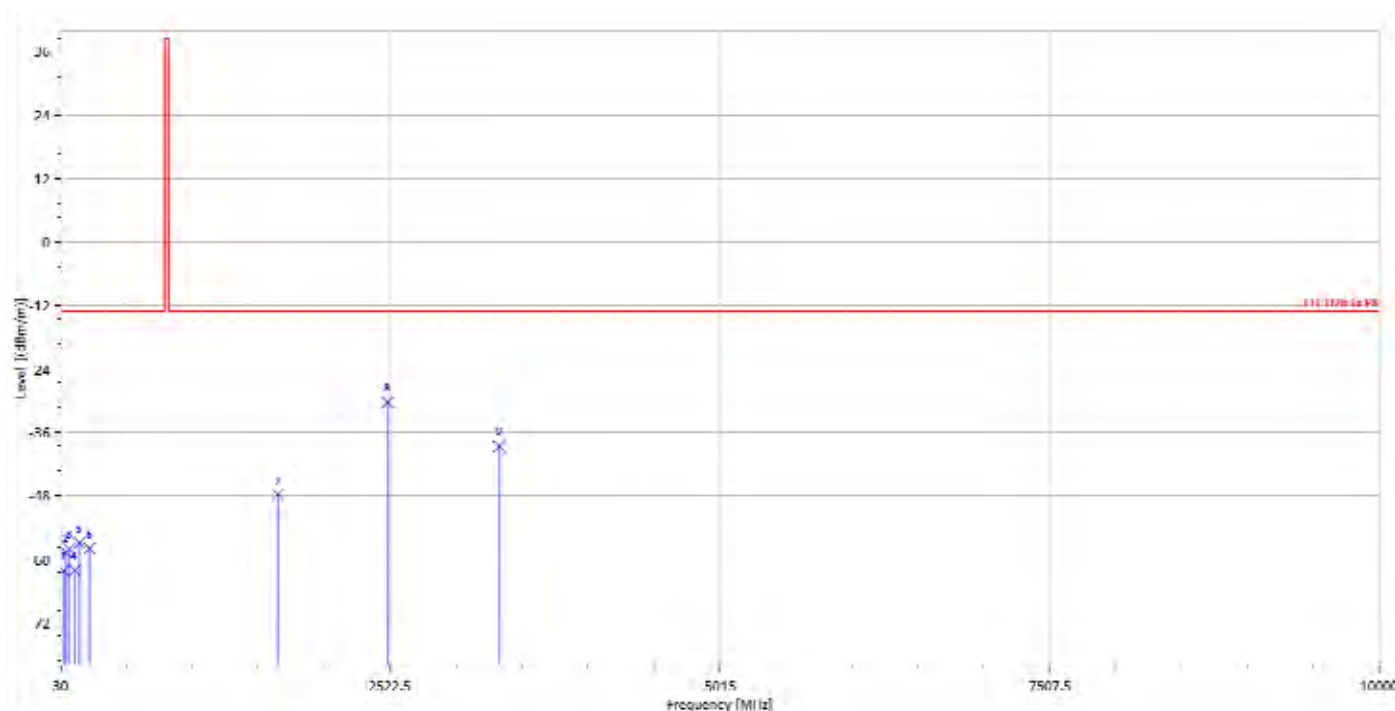
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 836.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
56.19	S	-62.16	-56.72	-4.59	-0.85	-13	-49.16
71.71	S	-58.62	-55.89	-1.69	-1.03	-13	-45.62
96.93	S	-58.01	-54.09	-2.77	-1.15	-13	-45.01
139.61	S	-62.03	-59.58	-1.07	-1.38	-13	-49.03
175.50	S	-56.80	-58.30	3.12	-1.62	-13	-43.80
251.16	S	-57.90	-59.07	3.04	-1.88	-13	-44.90
1672.00	H	-47.75	-49.81	6.83	-4.78	-13	-34.75
2505.00	H	-30.27	-32.64	8.26	-5.89	-13	-17.27
3345.00	H	-38.56	-41.46	9.84	-6.94	-13	-25.56

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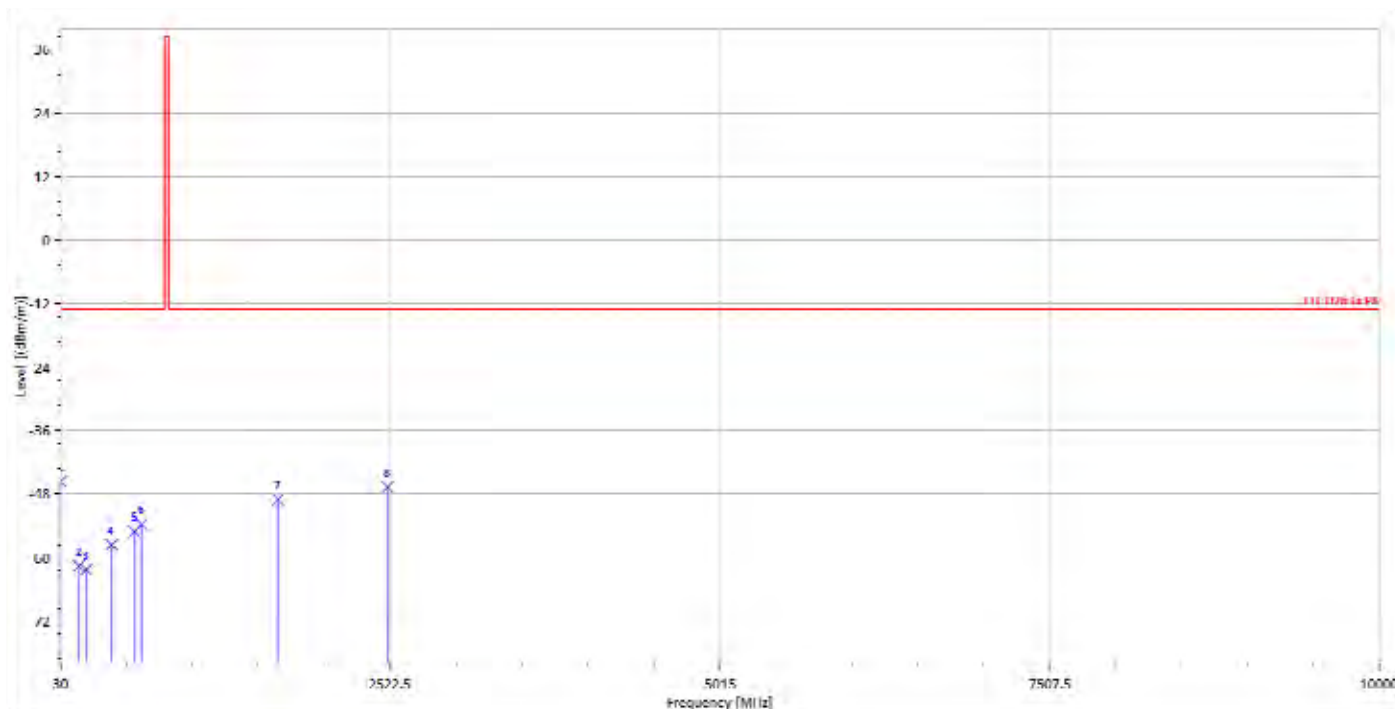
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 836.5 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
30.97	S	-45.63	-23.43	-21.56	-0.65	-13	-32.63
170.65	S	-61.61	-62.76	2.63	-1.49	-13	-48.61
227.88	S	-62.29	-64.67	4.16	-1.78	-13	-49.29
418.97	S	-57.56	-58.90	3.80	-2.45	-13	-44.56
589.69	S	-55.04	-57.11	4.63	-2.57	-13	-42.04
642.07	S	-53.64	-55.79	4.89	-2.74	-13	-40.64
1672.00	H	-49.09	-51.15	6.83	-4.78	-13	-36.09
2505.00	H	-46.71	-49.08	8.26	-5.89	-13	-33.71

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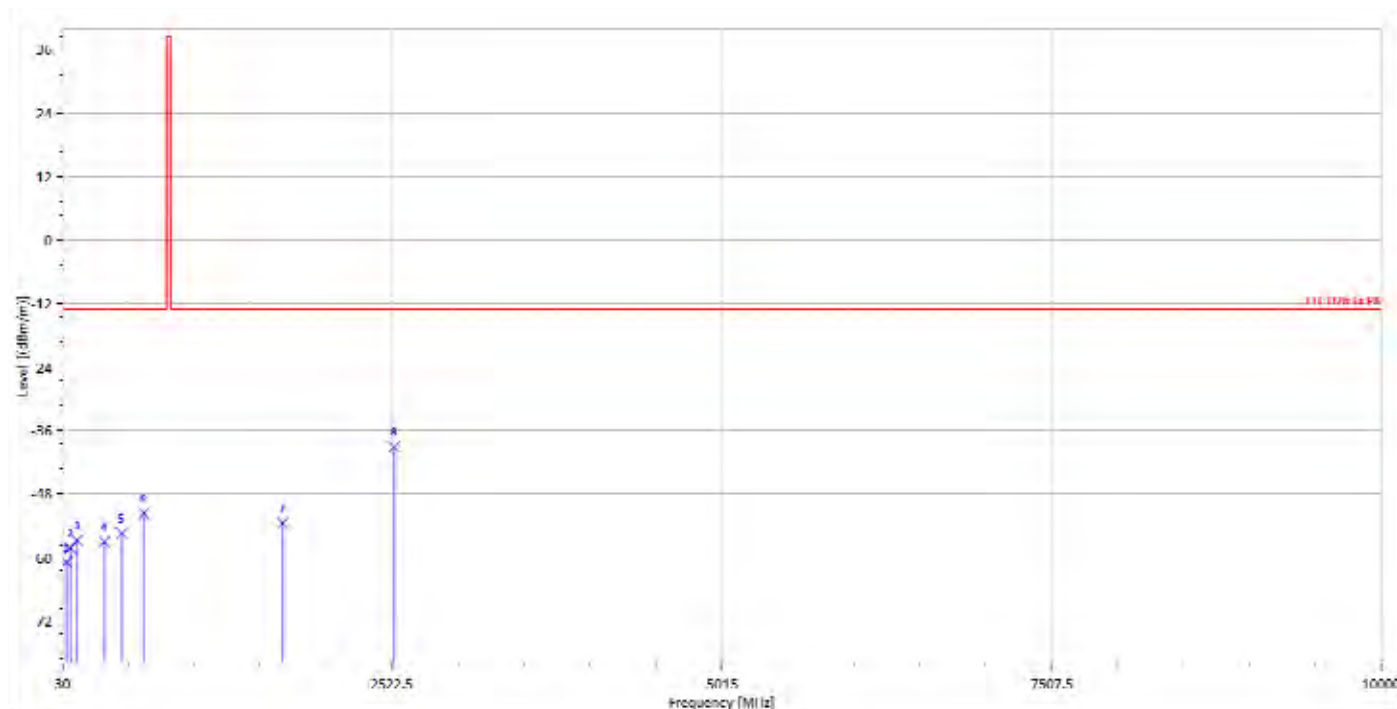
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 848.3 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
61.04	S	-60.86	-56.98	-2.94	-0.95	-13	-47.86
91.11	S	-58.18	-54.81	-2.25	-1.12	-13	-45.18
140.58	S	-56.70	-54.37	-0.94	-1.40	-13	-43.70
352.04	S	-56.97	-58.45	3.74	-2.26	-13	-43.97
477.17	S	-55.36	-57.00	4.19	-2.56	-13	-42.36
645.95	S	-51.67	-53.52	4.90	-3.06	-13	-38.67
1693.00	H	-53.43	-55.54	6.91	-4.80	-13	-40.43
2540.00	H	-39.04	-41.46	8.32	-5.91	-13	-26.04

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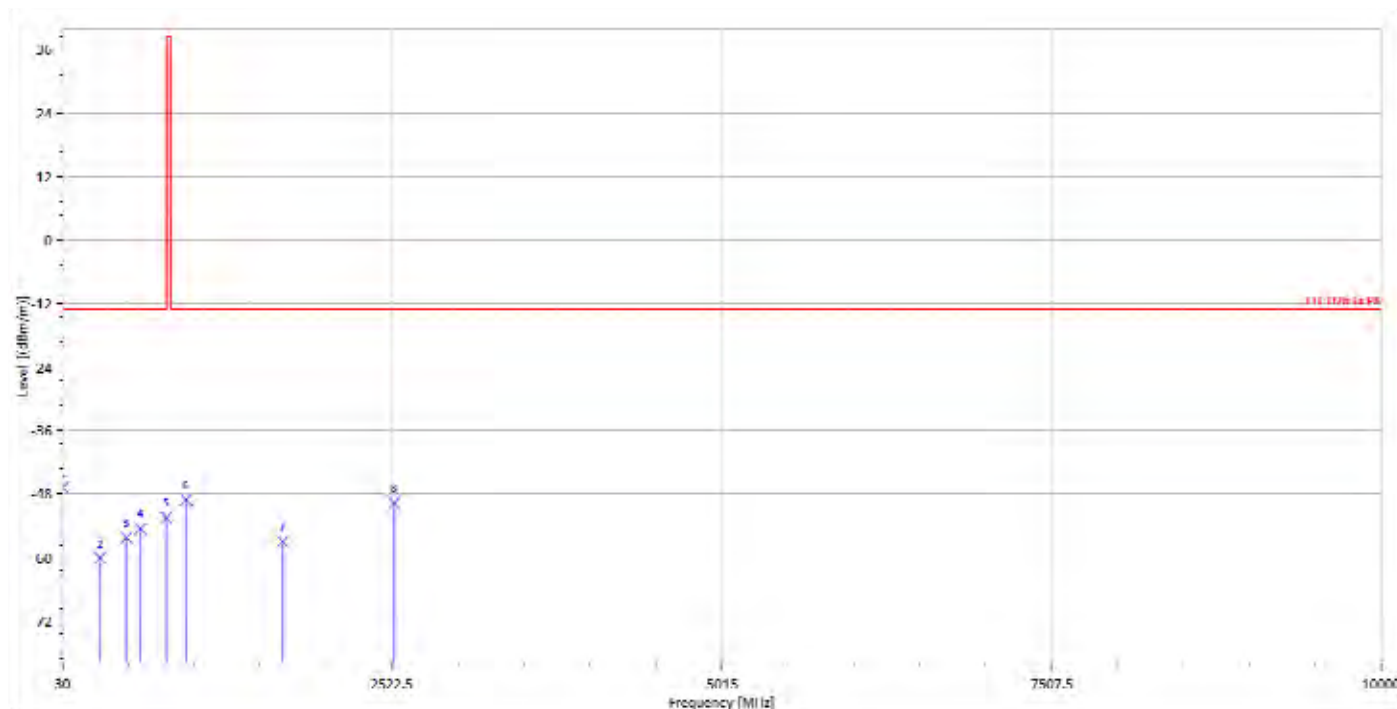
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 848.3 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
32.91	S	-46.78	-26.24	-19.87	-0.67	-13	-33.78
317.12	S	-60.07	-61.74	3.78	-2.11	-13	-47.07
511.12	S	-56.20	-57.68	4.25	-2.77	-13	-43.20
618.79	S	-54.49	-56.50	4.80	-2.78	-13	-41.49
817.64	S	-52.45	-54.71	5.50	-3.23	-13	-39.45
968.96	S	-49.15	-51.22	5.73	-3.66	-13	-36.15
1693.00	H	-56.92	-59.03	6.91	-4.80	-13	-43.92
2540.00	H	-49.77	-52.18	8.32	-5.91	-13	-36.77

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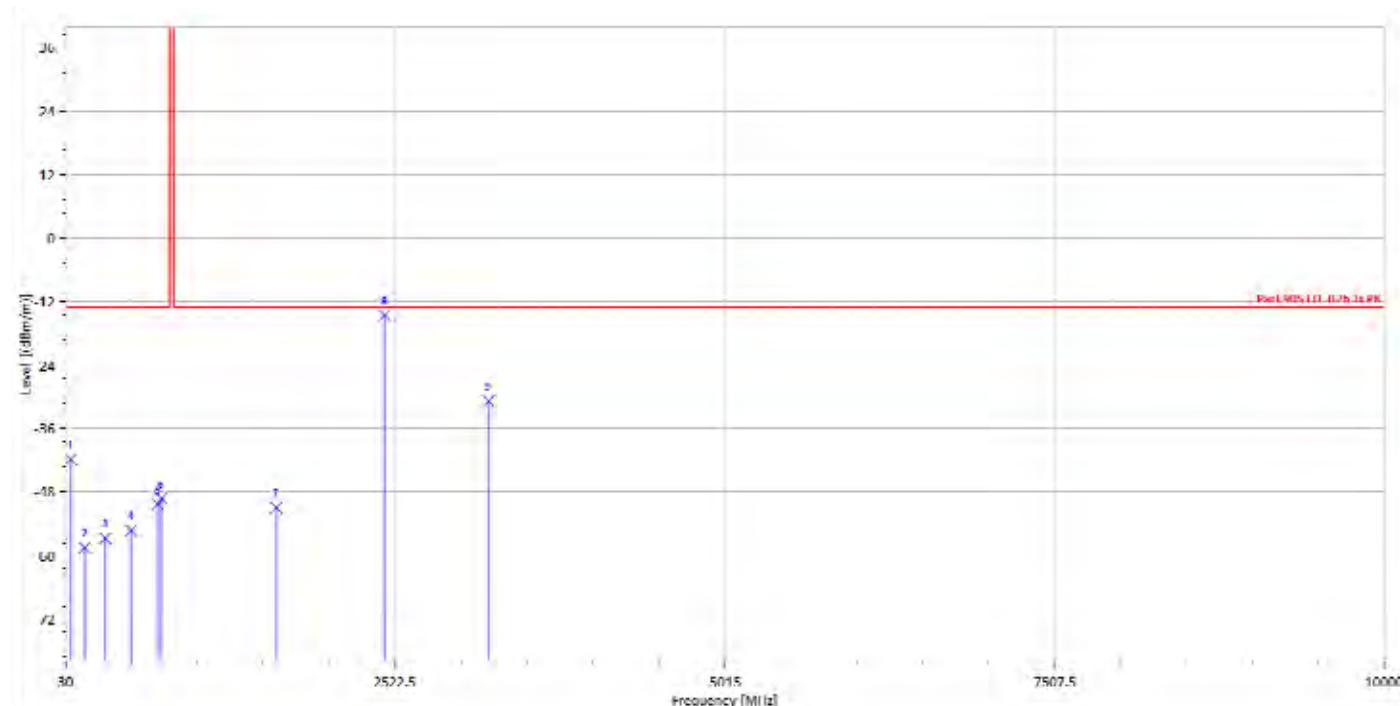
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode :	LTEB26 1.4M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	814.7 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
70.74	S	-41.77	-39.02	-1.72	-1.03	-13	-28.77
177.44	S	-58.49	-60.29	3.31	-1.51	-13	-45.49
333.61	S	-56.71	-58.23	3.76	-2.24	-13	-43.71
524.70	S	-55.15	-56.92	4.25	-2.48	-13	-42.15
729.37	S	-50.35	-52.52	5.46	-3.29	-13	-37.35
756.53	S	-49.28	-51.79	5.47	-2.96	-13	-36.28
1623.00	H	-51.01	-52.98	6.67	-4.70	-13	-38.01
2442.00	H	-14.51	-16.92	8.22	-5.81	-13	-1.51
3233.00	H	-30.80	-33.67	9.62	-6.75	-13	-17.80

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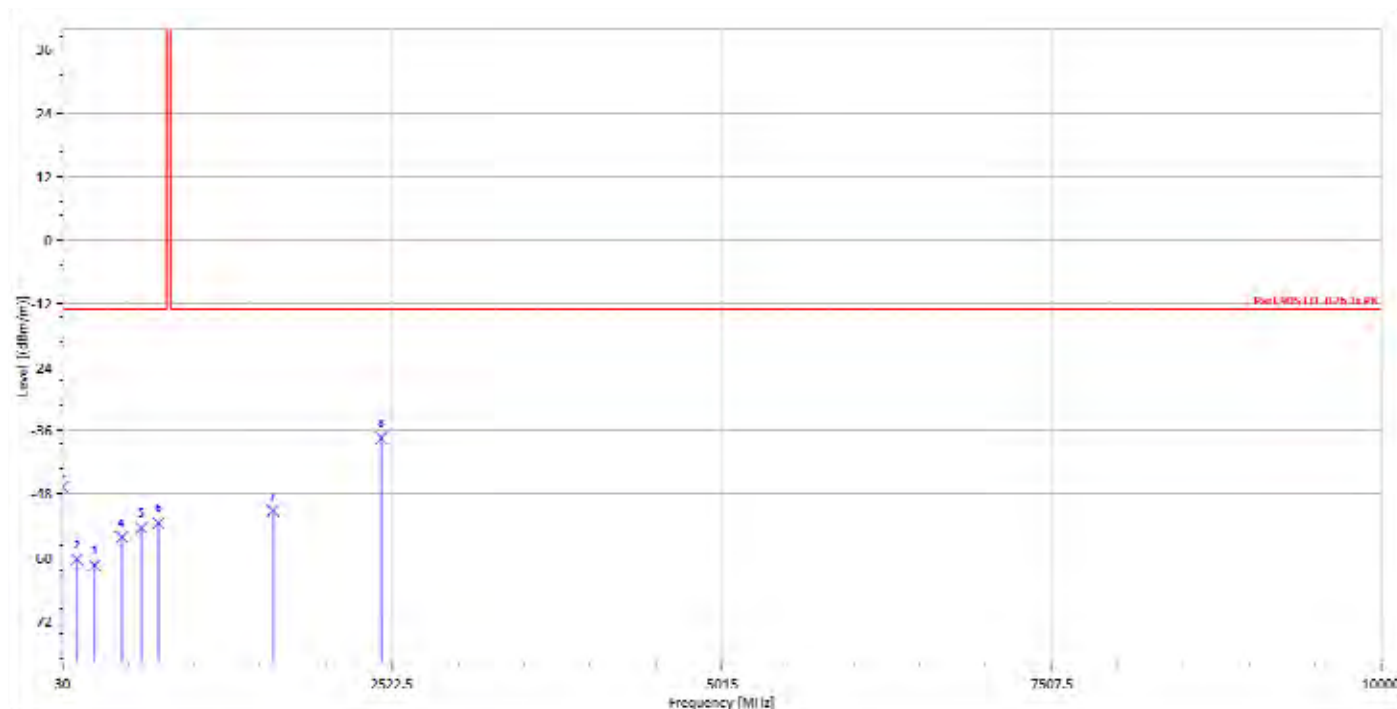
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f (886-2) 2298-0488

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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 814.7 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-46.71	-25.33	-20.71	-0.67	-13	-33.71
140.58	S	-60.34	-58.01	-0.94	-1.40	-13	-47.34
275.41	S	-61.51	-63.05	3.46	-1.92	-13	-48.51
478.14	S	-56.08	-57.68	4.19	-2.59	-13	-43.08
627.52	S	-54.33	-56.26	4.83	-2.89	-13	-41.33
757.50	S	-53.42	-55.70	5.47	-3.19	-13	-40.42
1623.00	H	-51.21	-53.18	6.67	-4.70	-13	-38.21
2442.00	H	-37.39	-39.80	8.22	-5.81	-13	-24.39

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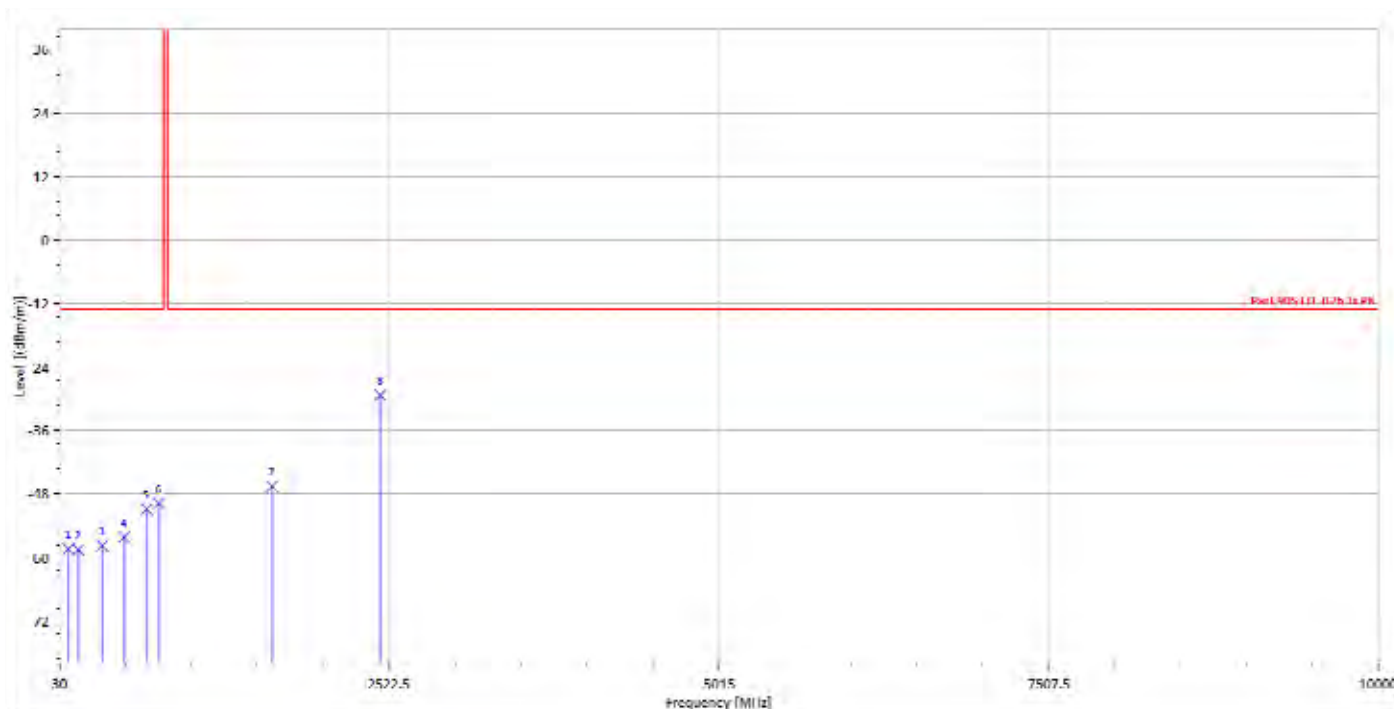
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 819.0 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
97.90	S	-58.35	-54.34	-2.85	-1.16	-13	-45.35
174.53	S	-58.50	-59.94	3.02	-1.58	-13	-45.50
357.86	S	-57.72	-59.27	3.72	-2.17	-13	-44.72
517.91	S	-56.06	-57.69	4.25	-2.61	-13	-43.06
690.57	S	-50.91	-53.41	5.36	-2.86	-13	-37.91
785.63	S	-49.77	-52.19	5.50	-3.09	-13	-36.77
1637.00	H	-46.52	-48.52	6.72	-4.72	-13	-33.52
2456.00	H	-29.30	-31.70	8.22	-5.83	-13	-16.30

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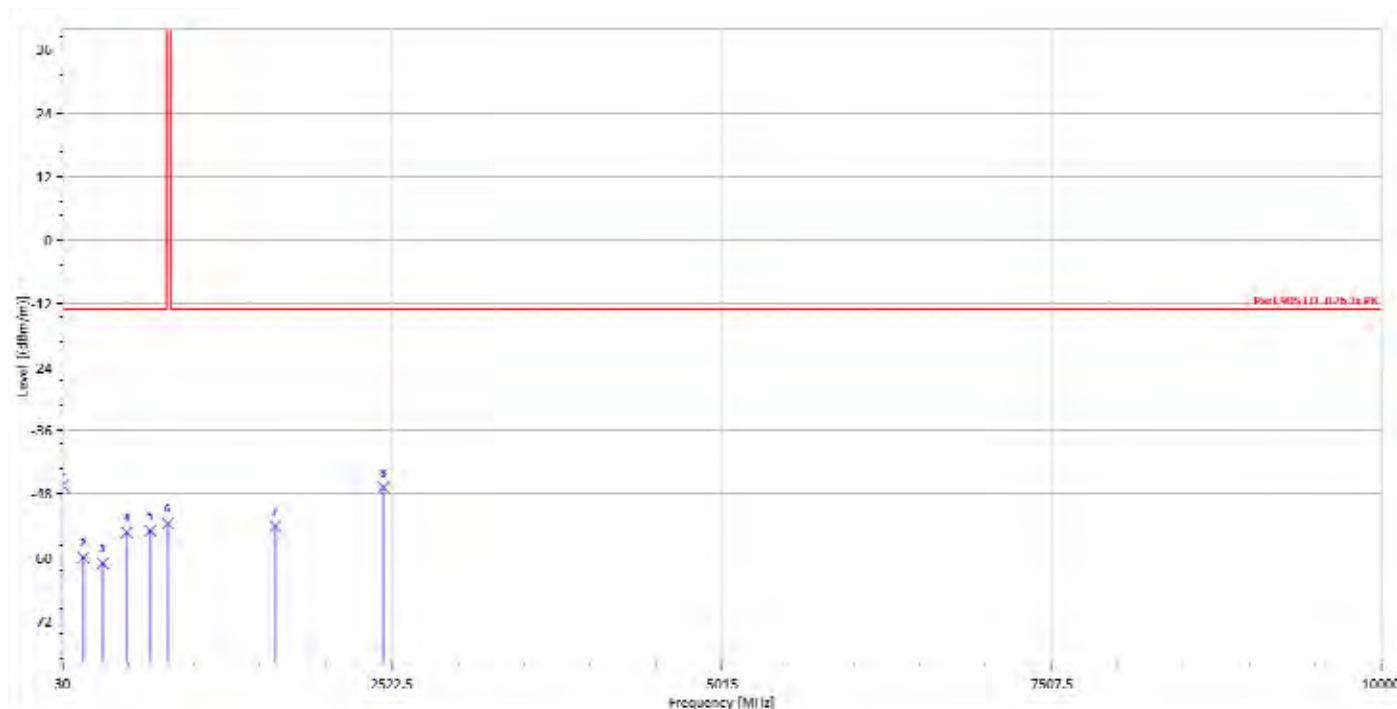
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 819.0 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-46.40	-25.02	-20.71	-0.67	-13	-33.40
189.08	S	-60.02	-62.42	3.99	-1.59	-13	-47.02
338.46	S	-61.10	-62.77	3.76	-2.08	-13	-48.10
515.00	S	-55.18	-56.90	4.25	-2.53	-13	-42.18
694.45	S	-54.89	-57.27	5.40	-3.03	-13	-41.89
830.25	S	-53.52	-55.71	5.48	-3.29	-13	-40.52
1637.00	H	-54.00	-56.00	6.72	-4.72	-13	-41.00
2456.00	H	-46.76	-49.16	8.22	-5.83	-13	-33.76

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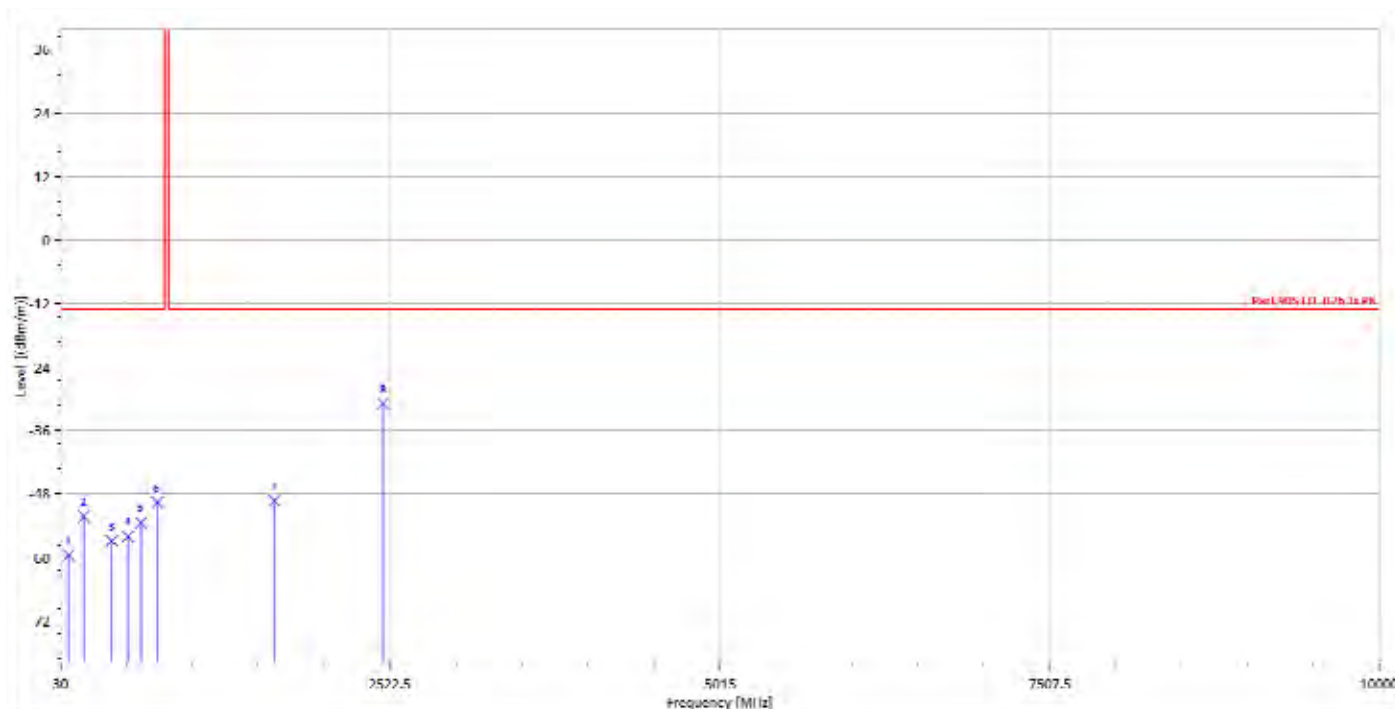
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 823.3 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
91.11	S	-59.54	-56.16	-2.25	-1.12	-13	-46.54
208.48	S	-52.21	-54.40	3.87	-1.68	-13	-39.21
419.94	S	-56.82	-58.33	3.81	-2.30	-13	-43.82
539.25	S	-55.96	-57.66	4.26	-2.56	-13	-42.96
639.16	S	-53.34	-55.32	4.88	-2.89	-13	-40.34
764.29	S	-49.63	-52.22	5.48	-2.88	-13	-36.63
1644.00	H	-49.29	-51.32	6.74	-4.71	-13	-36.29
2470.00	H	-30.88	-33.28	8.23	-5.84	-13	-17.88

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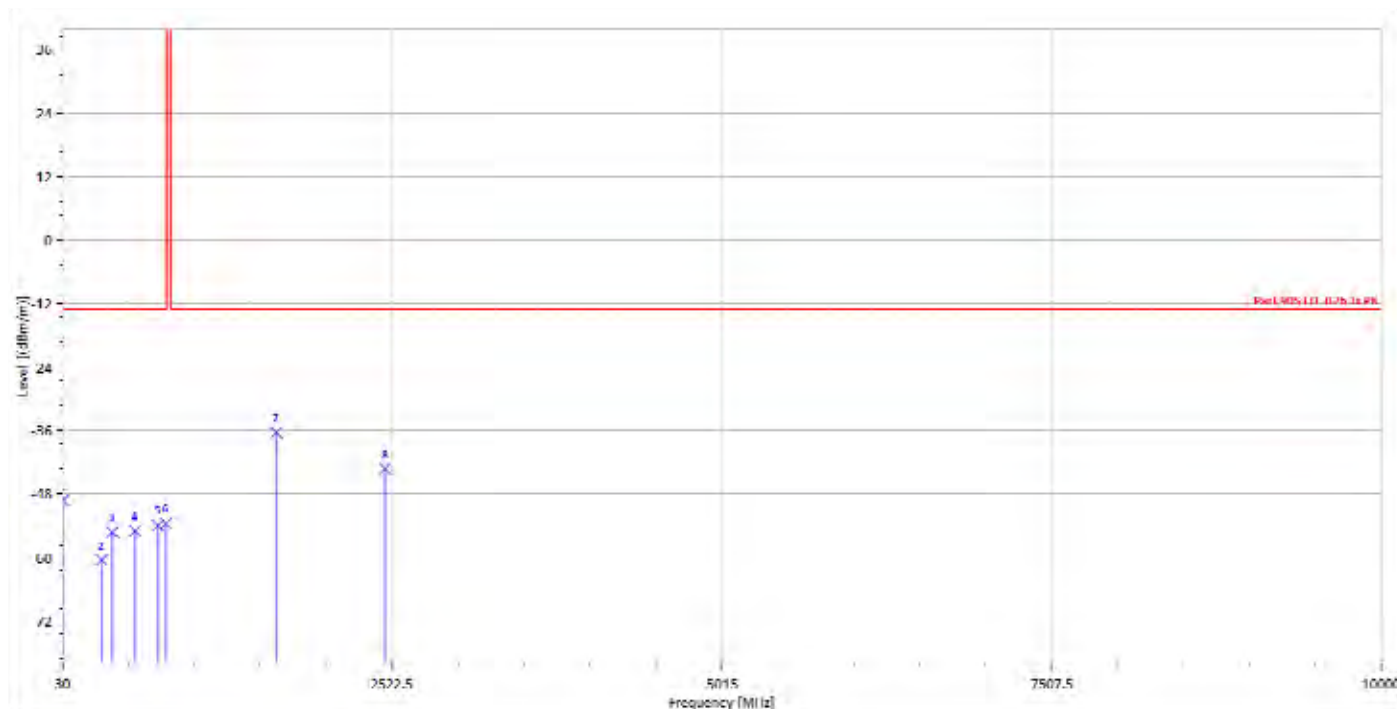
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Operation Mode : LTEB26 1.4M QPSK 1.0 Test Date : 2017/7/5
Fundamental Frequency : 823.3 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
35.82	S	-49.23	-31.11	-17.39	-0.73	-13	-36.23
329.73	S	-60.47	-62.16	3.77	-2.07	-13	-47.47
410.24	S	-55.14	-56.57	3.71	-2.28	-13	-42.14
578.05	S	-54.92	-56.77	4.52	-2.67	-13	-41.92
753.62	S	-53.89	-56.27	5.47	-3.08	-13	-40.89
814.73	S	-53.52	-55.67	5.50	-3.35	-13	-40.52
1644.00	H	-36.42	-38.45	6.74	-4.71	-13	-23.42
2470.00	H	-43.16	-45.56	8.23	-5.84	-13	-30.16

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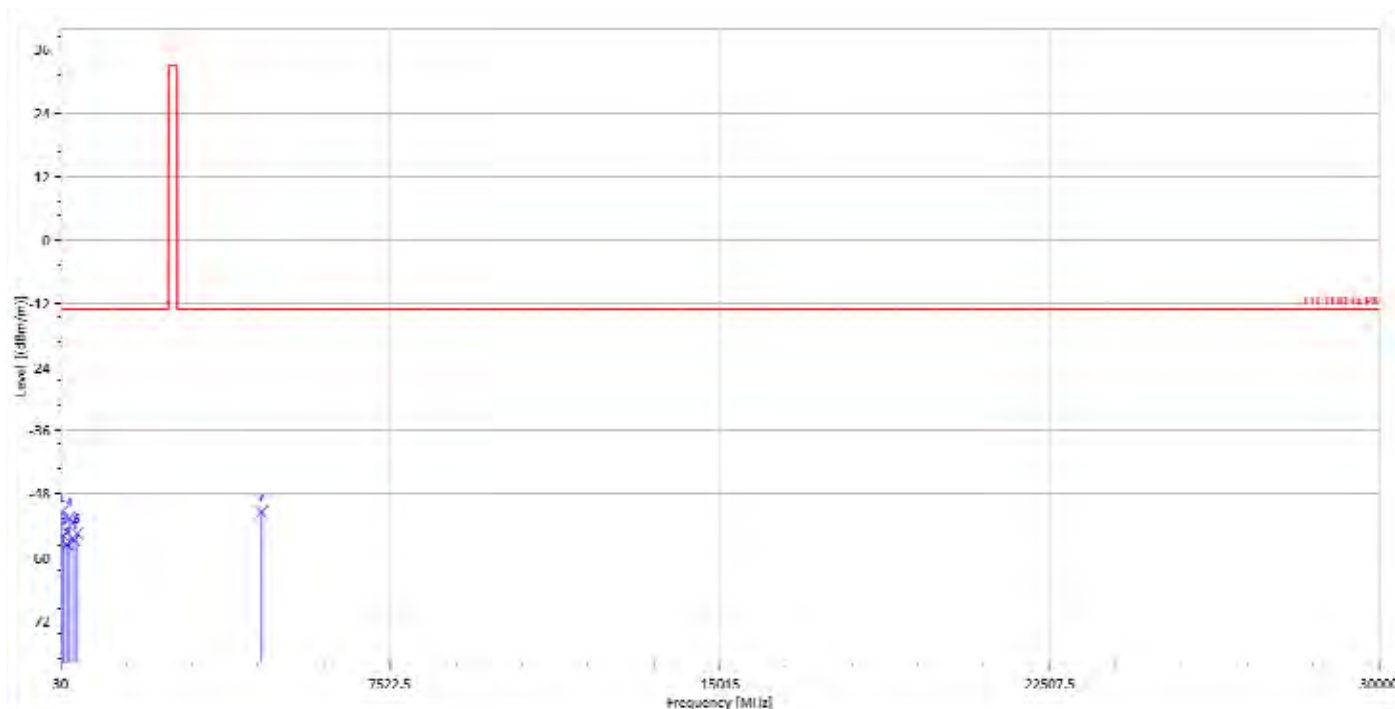
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Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Mode : LTEB30 10M 16QAM 1.0 Test Date : 2017/7/25
Fundamental Frequency : 2310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
57.16	S	-51.49	-48.55	-2.06	-0.87	-13	-38.49
97.90	S	-55.84	-53.98	-0.70	-1.16	-13	-42.84
174.53	S	-57.50	-61.09	5.17	-1.58	-13	-44.50
242.43	S	-52.51	-56.31	5.61	-1.81	-13	-39.51
339.43	S	-56.63	-60.46	5.90	-2.08	-13	-43.63
412.18	S	-55.41	-59.04	5.88	-2.24	-13	-42.41
4612.00	H	-51.44	-55.90	12.46	-8.00	-13	-38.44

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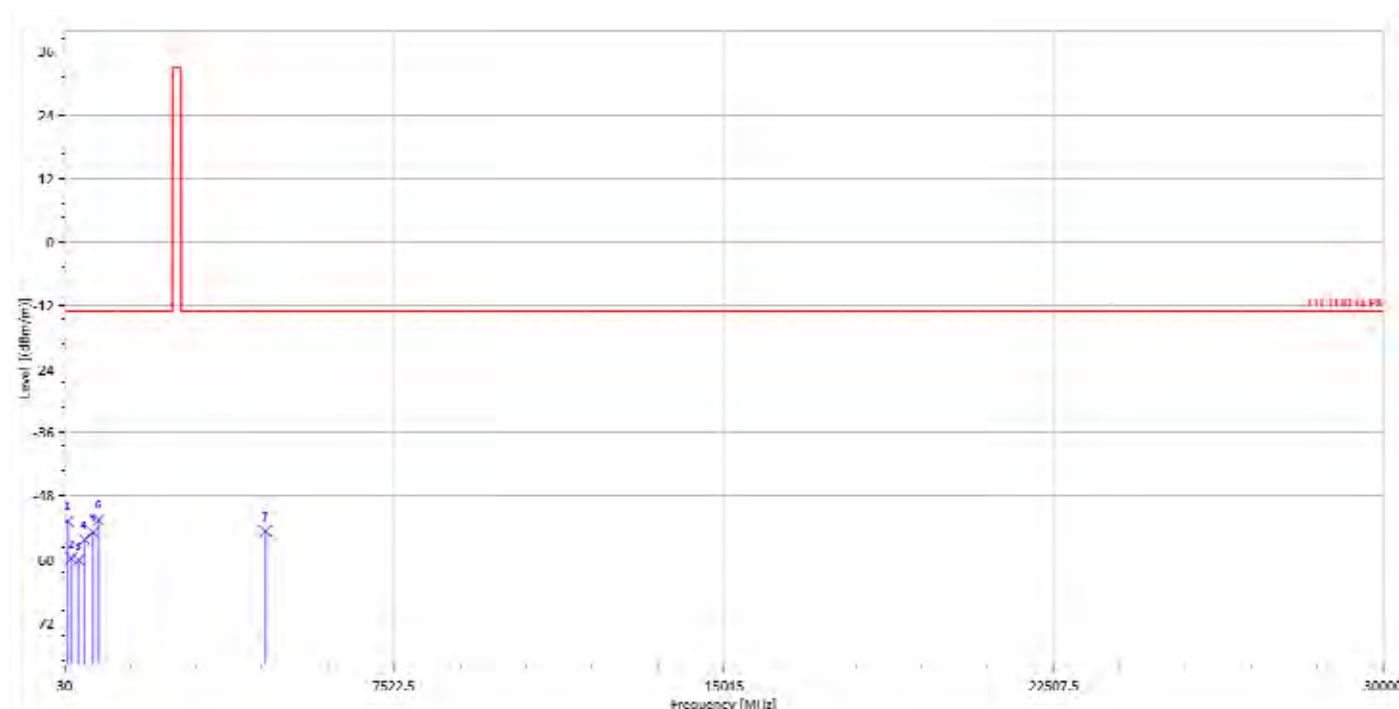
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f (886-2) 2298-0488

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Operation Mode : LTEB30 10M 16QAM 1.0 Test Date : 2017/7/25
Fundamental Frequency : 2310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
105.66	S	-52.71	-50.40	-1.10	-1.20	-13	-39.71
190.05	S	-59.78	-64.35	6.18	-1.61	-13	-46.78
354.95	S	-60.12	-63.77	5.88	-2.22	-13	-47.12
491.72	S	-56.18	-59.88	6.37	-2.67	-13	-43.18
684.75	S	-54.77	-59.13	7.45	-3.09	-13	-41.77
814.73	S	-52.46	-56.76	7.65	-3.35	-13	-39.46
4612.00	H	-54.59	-59.04	12.46	-8.00	-13	-41.59

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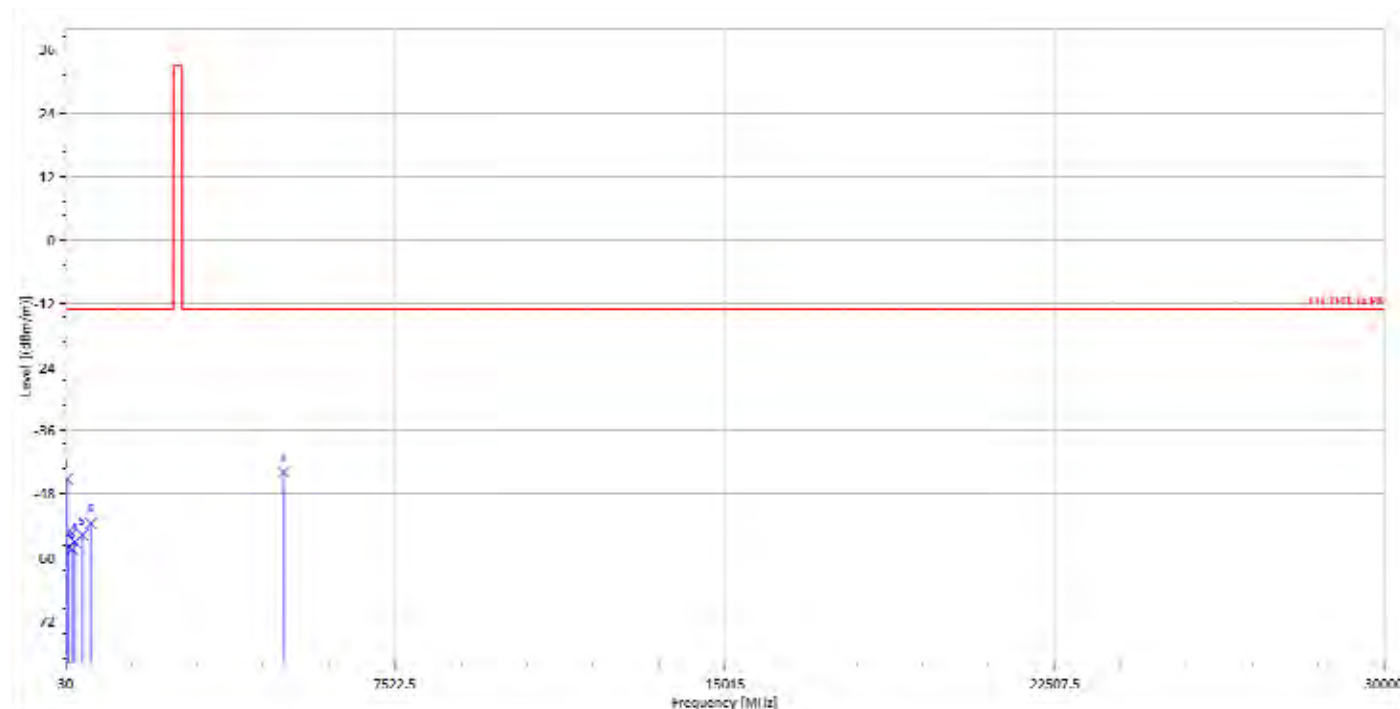
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Radiated Spurious Emission Measurement Result: LTE-Band 41(The Worst Case)

Operation Mode :	LTEB41 5M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	2498.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
64.92	S	-45.15	-43.96	-0.27	-0.92	-13	-32.15
97.90	S	-57.91	-56.05	-0.70	-1.16	-13	-44.91
187.14	S	-58.38	-62.87	6.05	-1.55	-13	-45.38
242.43	S	-57.02	-60.81	5.61	-1.81	-13	-44.02
420.91	S	-55.69	-59.36	5.97	-2.31	-13	-42.69
615.88	S	-53.47	-57.35	6.94	-3.05	-13	-40.47
5095.00	H	-43.84	-47.78	12.30	-8.36	-13	-30.84

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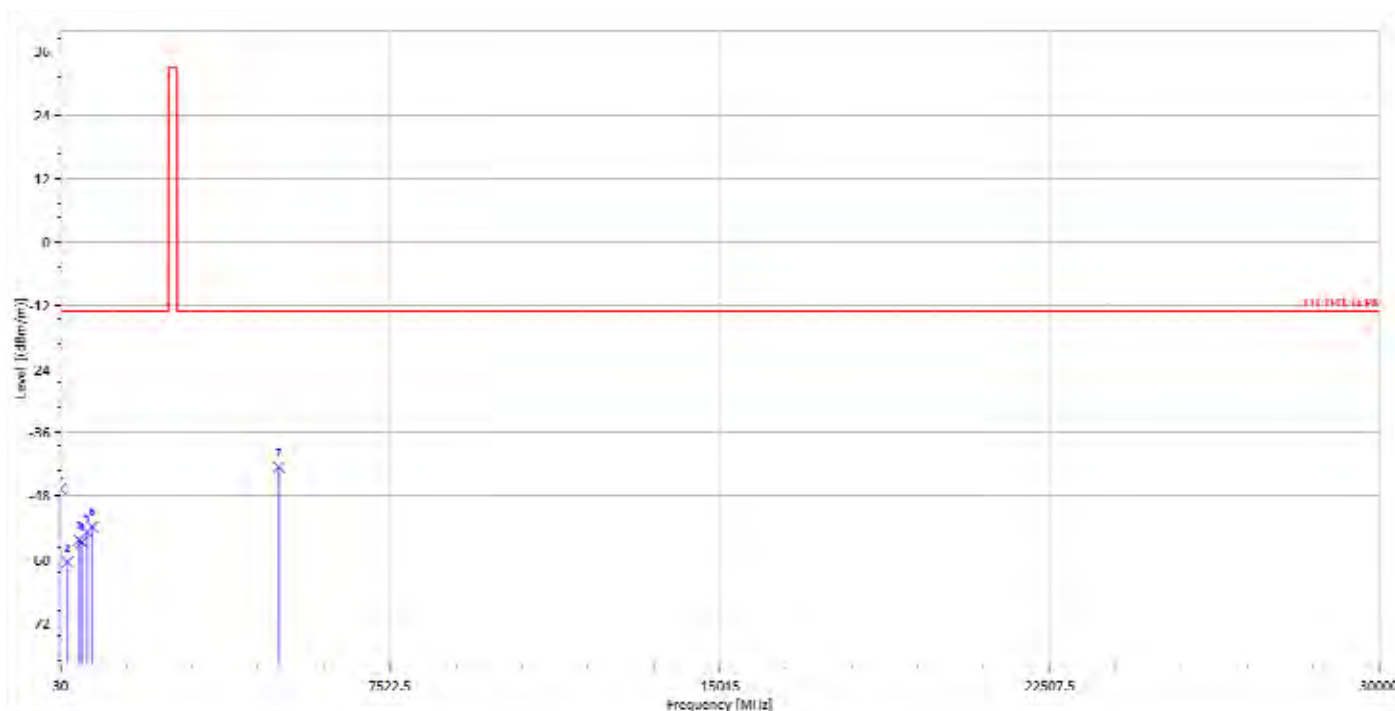
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Operation Mode :	LTEB41 5M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	2498.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
31.94	S	-46.65	-27.42	-18.56	-0.67	-13	-33.65
188.11	S	-60.46	-64.99	6.10	-1.56	-13	-47.46
462.62	S	-56.29	-60.12	6.30	-2.47	-13	-43.29
520.82	S	-56.65	-60.34	6.40	-2.71	-13	-43.65
641.10	S	-54.74	-59.18	7.03	-2.59	-13	-41.74
759.44	S	-53.77	-58.06	7.62	-3.33	-13	-40.77
5095.00	H	-42.48	-46.42	12.30	-8.36	-13	-29.48

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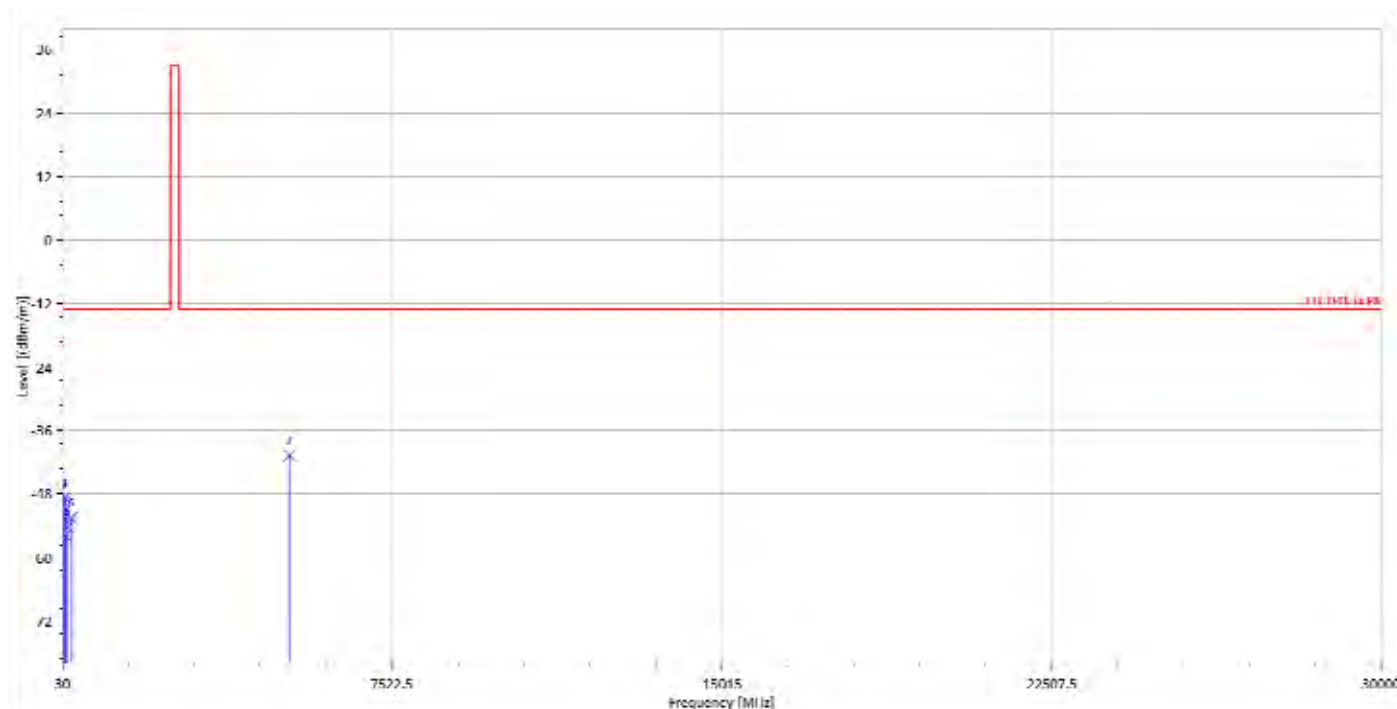
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Operation Mode :	LTEB41 5M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
57.16	S	-51.49	-48.55	-2.06	-0.87	-13	-38.49
63.95	S	-49.55	-48.22	-0.40	-0.93	-13	-36.55
76.56	S	-48.71	-48.28	0.58	-1.00	-13	-35.71
97.90	S	-55.84	-53.98	-0.70	-1.16	-13	-42.84
141.55	S	-54.15	-54.15	1.35	-1.35	-13	-41.15
242.43	S	-52.51	-56.31	5.61	-1.81	-13	-39.51
5200.00	H	-40.62	-44.60	12.41	-8.43	-13	-27.62

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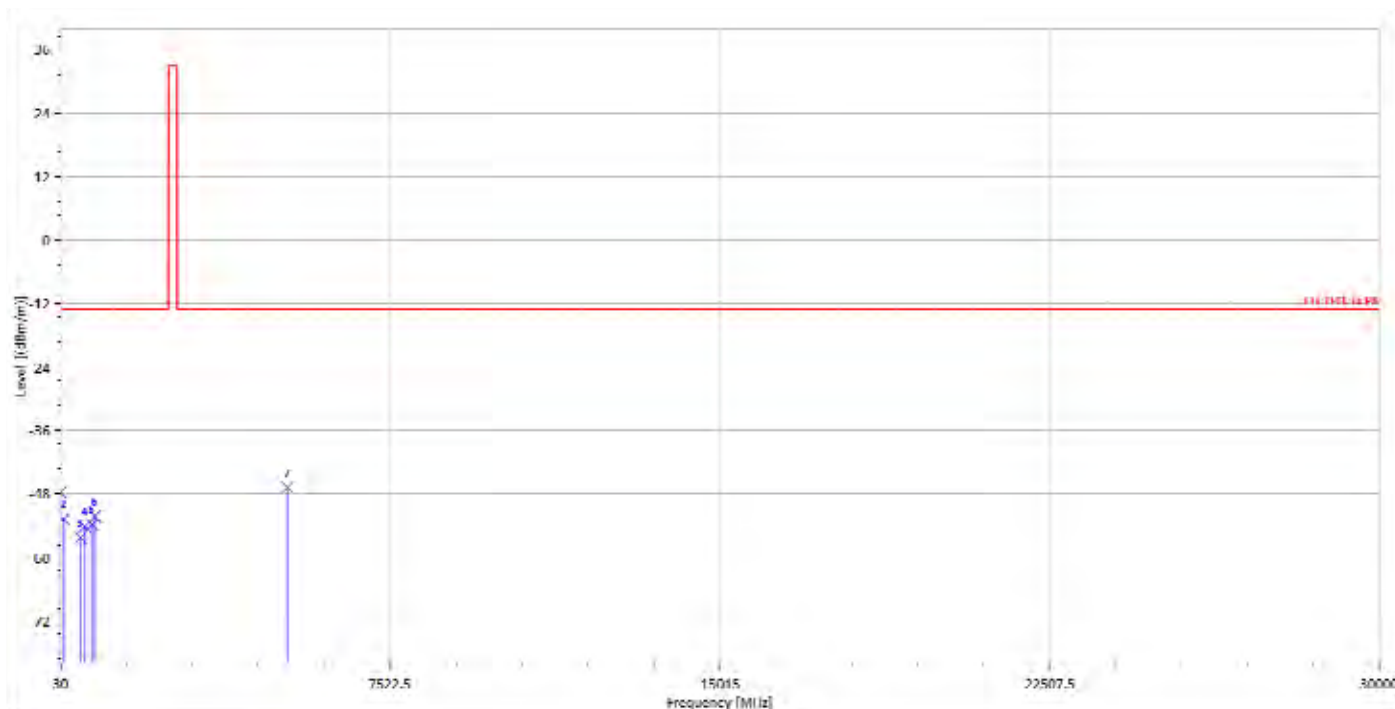
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Operation Mode :	LTEB41 5M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	2593 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
33.88	S	-47.70	-30.14	-16.88	-0.68	-13	-34.70
105.66	S	-52.71	-50.40	-1.10	-1.20	-13	-39.71
491.72	S	-56.18	-59.88	6.37	-2.67	-13	-43.18
589.69	S	-54.06	-58.27	6.78	-2.57	-13	-41.06
753.62	S	-53.69	-58.22	7.62	-3.08	-13	-40.69
822.49	S	-52.22	-56.31	7.64	-3.55	-13	-39.22
5200.00	H	-46.78	-50.76	12.41	-8.43	-13	-33.78

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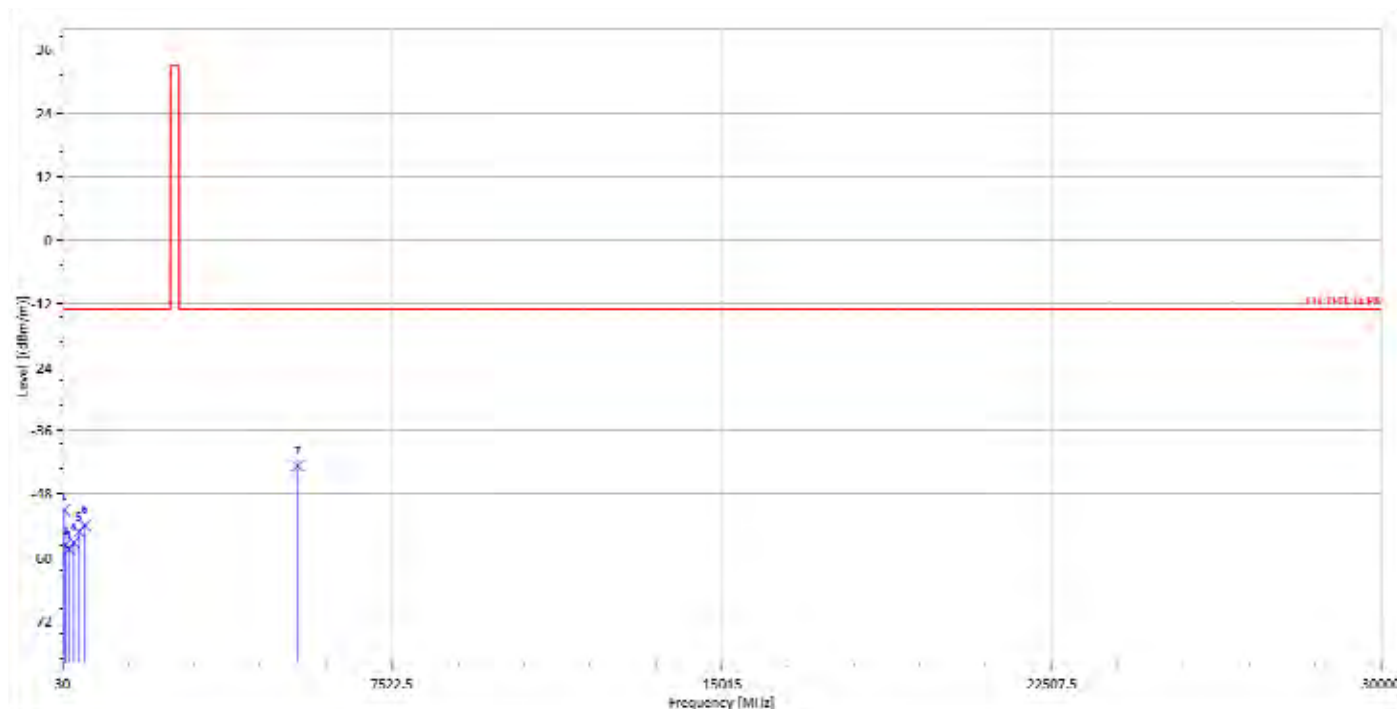
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Operation Mode :	LTEB41 5M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	2687.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
67.83	S	-51.09	-50.28	0.12	-0.93	-13	-38.09
96.93	S	-57.55	-55.78	-0.62	-1.15	-13	-44.55
174.53	S	-58.43	-62.02	5.17	-1.58	-13	-45.43
288.02	S	-57.12	-60.95	5.84	-2.00	-13	-44.12
414.12	S	-55.04	-58.70	5.90	-2.24	-13	-42.04
543.13	S	-53.81	-57.39	6.41	-2.84	-13	-40.81
5305.00	H	-42.60	-46.56	12.53	-8.57	-13	-29.60

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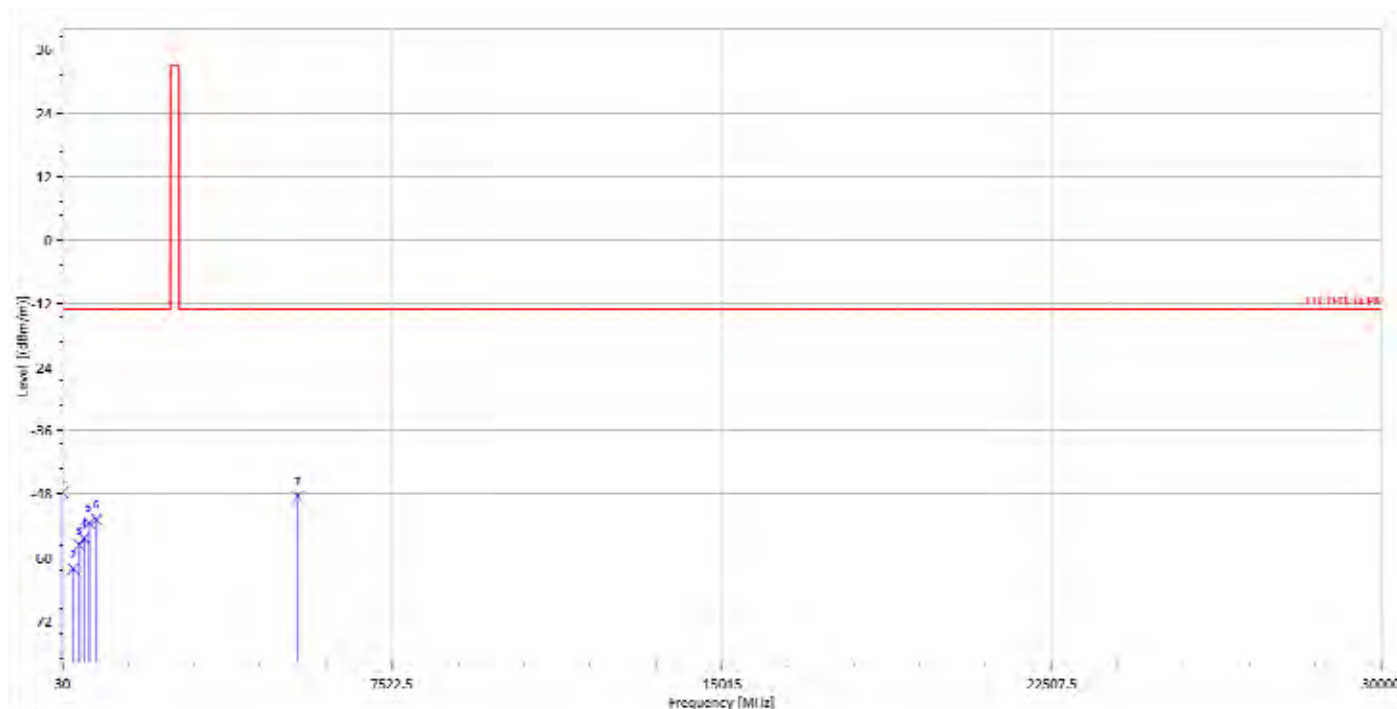
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Operation Mode :	LTEB41 5M QPSK 1.0	Test Date :	2017/7/5
Fundamental Frequency :	2687.5 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit @3m	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm/m	dB
32.91	S	-47.76	-29.36	-17.72	-0.67	-13	-34.76
281.23	S	-62.18	-65.99	5.77	-1.96	-13	-49.18
418.97	S	-57.62	-61.11	5.95	-2.45	-13	-44.62
531.49	S	-56.32	-59.83	6.41	-2.89	-13	-43.32
644.01	S	-53.41	-57.45	7.04	-3.00	-13	-40.41
808.91	S	-52.75	-57.12	7.66	-3.29	-13	-39.75
5305.00	H	-48.45	-52.40	12.53	-8.57	-13	-35.45

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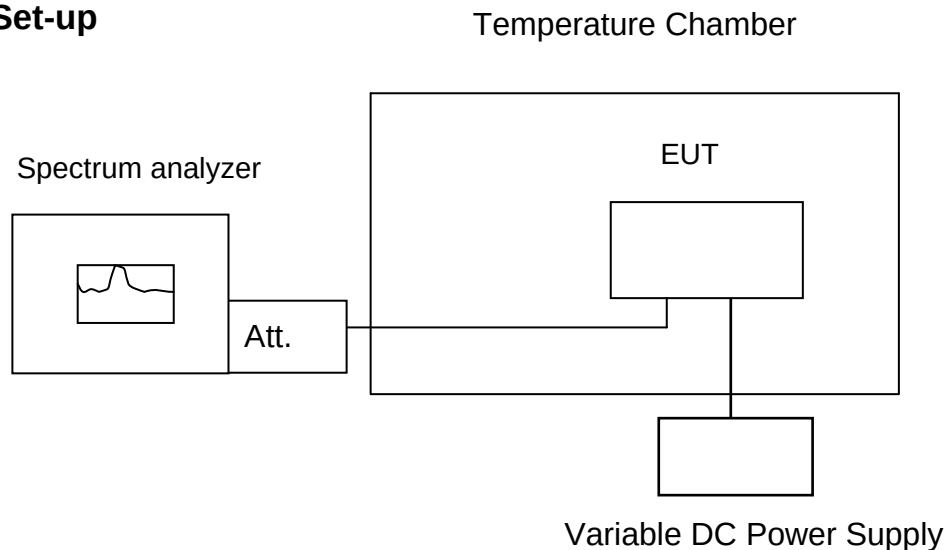
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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11.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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11.5. Measurement Result

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	1879999998	-4	4700
12	20	1880000002	6	4700
10.2	20	1879999996	-19	4700
9.5 (End point)	20	1880000015	-2	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
12	50	1880999999	2	4700
12	40	1880999997	16	4700
12	30	1880999981	-10	4700
12	20	1880999991	7	4700
12	10	1880999984	5	4700
12	0	1880999979	-10	4700
12	-10	1880999989	-4	4700
12	-20	1880999993	14	4700
12	-30	1880999979	4	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	836599998	-9	4700
12	20	836600007	2	4700
10.2	20	836600005	21	4700
9.5 (End point)	20	836599984	-4	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
12	50	836599985	-32	4700
12	40	836600017	18	4700
12	30	836599989	-10	4700
12	20	836599999	-13	4700
12	10	836600012	20	4700
12	0	836599992	-12	4700
12	-10	836600004	3	4700
12	-20	836600001	-11	4700
12	-30	836600012	11	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	1879.999995	7	4700	
12	25	1879.999988	0	4700	
10.2	25	1879.999986	-2	4700	
9.5 (End Point)	25	1880.000007	19	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	1880.000014	10	4700	
12	-20	1879.999997	-7	4700	
12	-10	1880.000002	-2	4700	
12	0	1880.000005	1	4700	
12	10	1880.000006	2	4700	
12	20	1880.000004	0	4700	
12	30	1880.000005	1	4700	
12	40	1880.000004	0	4700	
12	50	1880.000003	-1	4700	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	1732.5	7	4331	
12	25	1732.5	0	4331	
10.2	25	1732.5	-2	4331	
9.5 (End Point)	25	1732.5	16	4331	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	1732.5	8	4331	
12	-20	1732.5	-11	4331	
12	-10	1732.5	-5	4331	
12	0	1732.5	1	4331	
12	10	1732.5	-2	4331	
12	20	1732.5	0	4331	
12	30	1732.5	-3	4331	
12	40	1732.5	-2	4331	
12	50	1732.5	-5	4331	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	836.500014	18	2091	
12	25	836.499996	0	2091	
10.2	25	836.500001	5	2091	
9.5 (End Point)	25	836.500005	9	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	836.500012	10	2091	
12	-20	836.499999	-3	2091	
12	-10	836.500005	3	2091	
12	0	836.500004	2	2091	
12	10	836.500002	0	2091	
12	20	836.500002	0	2091	
12	30	836.499999	-3	2091	
12	40	836.500003	1	2091	
12	50	836.499996	-6	2091	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	2535	17	6338	
12	25	2535	0	6338	
10.2	25	2535	10	6338	
9.5 (End Point)	25	2535	9	6338	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	2535	8	6338	
12	-20	2535	0	6338	
12	-10	2535	6	6338	
12	0	2535	1	6338	
12	10	2535	-1	6338	
12	20	2535	0	6338	
12	30	2535	-1	6338	
12	40	2535	-1	6338	
12	50	2535	-5	6338	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	707.500013	16	1769	
12	25	707.499997	0	1769	
10.2	25	707.500004	7	1769	
9.5 (End Point)	25	707.500003	6	1769	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	707.500001	9	1769	
12	-20	707.499997	-4	1769	
12	-10	707.500005	4	1769	
12	0	707.500004	3	1769	
12	10	707.500005	4	1769	
12	20	707.500001	0	1769	
12	30	707.500006	5	1769	
12	40	707.500002	1	1769	
12	50	707.500005	4	1769	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	782.000012	11	1955	
12	25	782.000001	0	1955	
10.2	25	782.000011	10	1955	
9.5 (End Point)	25	782	-1	1955	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	782.000005	7	1955	
12	-20	782.000004	6	1955	
12	-10	782.000004	6	1955	
12	0	782.000002	4	1955	
12	10	781.999999	1	1955	
12	20	781.999998	0	1955	
12	30	781.999996	-2	1955	
12	40	781.999995	-3	1955	
12	50	781.999992	-6	1955	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B25 Mid Channel	1882.5	MHz	20M QPSK CH 26365
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	1882.500014	19	4700	
12	25	1882.499995	0	4700	
10.2	25	1882.500006	11	4700	
9.5 (End Point)	25	1882.500002	7	4700	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	1882.500003	5	4700	
12	-20	1882.500004	6	4700	
12	-10	1882.500007	9	4700	
12	0	1882.500001	3	4700	
12	10	1882.499997	-1	4700	
12	20	1882.499998	0	4700	
12	30	1882.499999	1	4700	
12	40	1882.499994	-4	4700	
12	50	1882.499995	-3	4700	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	15M QPSK CH 26915
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	836.500011	12	2091	
12	25	836.499999	0	2091	
10.2	25	836.500003	4	2091	
9.5 (End Point)	25	836.500002	3	2091	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B26 Mid Channel	836.5	MHz	15M QPSK CH 26915
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	836.500008	3	2091	
12	-20	836.499994	-11	2091	
12	-10	836.500004	-1	2091	
12	0	836.500003	-2	2091	
12	10	836.500001	-4	2091	
12	20	836.500005	0	2091	
12	30	836.500006	1	2091	
12	40	836.500003	-2	2091	
12	50	836.500004	-1	2091	

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FREQUENCY ERROR vs. VOLTAGE (LTE B26 for Part 90S)

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	819.000001	13	2048	
12	25	818.999997	0	2048	
10.2	25	819.000003	6	2048	
9.5 (End Point)	25	819.000004	7	2048	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B26 Mid Channel	819.0	MHz	1.4M QPSK CH 26740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	819.000007	4	2048	
12	-20	818.999996	-7	2048	
12	-10	818.999999	-4	2048	
12	0	818.999997	-6	2048	
12	10	818.999998	-5	2048	
12	20	819.000003	0	2048	
12	30	819.000004	1	2048	
12	40	818.999999	-4	2048	
12	50	819.000003	0	2048	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B30 Mid Channel	782.0	MHz	10M QPSK CH 27710
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	2310.000008	11	1955	
12	25	2309.999997	0	1955	
10.2	25	2310.000008	11	1955	
9.5 (End Point)	25	2309.999998	1	1955	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B13 Mid Channel	782.0	MHz	10M QPSK CH 23230
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	2310.000004	0	1955	
12	-20	2310.000002	-2	1955	
12	-10	2310.000003	-1	1955	
12	0	2309.999999	-5	1955	
12	10	2309.999995	-9	1955	
12	20	2310.000004	0	1955	
12	30	2309.999997	-7	1955	
12	40	2309.999992	-12	1955	
12	50	2309.999996	-8	1955	

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:		LTE B41 Mid Channel	2605.0	MHz	10M QPSK CH 40740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
13.8	25	2605.000015	11	6488	
12	25	2605.000004	0	6488	
10.2	25	2605.000012	8	6488	
9.5 (End Point)	25	2605.000002	-2	6488	

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:		LTE B41 Mid Channel	2605.0	MHz	10M QPSK CH 40740
Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
12	-30	2605.000007	12	6488	
12	-20	2605.000005	10	6488	
12	-10	2605.000006	11	6488	
12	0	2605.000007	12	6488	
12	10	2605.000002	7	6488	
12	20	2604.999995	0	6488	
12	30	2604.999996	1	6488	
12	40	2604.999996	1	6488	
12	50	2604.999995	0	6488	

Note: The battery is rated 12V dc.

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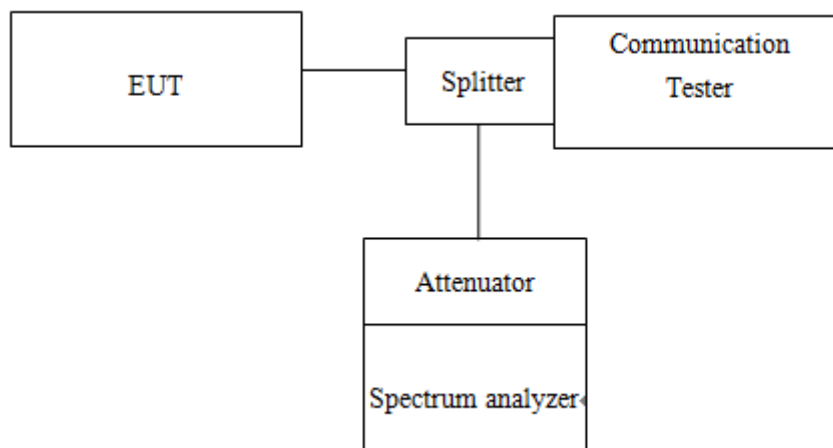
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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12.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average		
		WCDMA II	HSDPA II	HSUPA II
1850.2	9262	2.86	4.01	3.68
1880.0	9400	3.14	3.97	3.65
1909.8	9538	2.76	3.77	3.83

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	6.26	13	1851.5	18615	6.30	13
1880.0	18900	6.41	13	1880.0	18900	6.40	13
1909.3	19193	6.48	13	1908.5	19185	6.32	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	6.18	13	1855.0	18650	6.17	13
1880.0	18900	6.24	13	1880.0	18900	6.10	13
1907.5	19175	6.26	13	1905.0	19150	6.13	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.82	13	1860.0	18700	7.32	13
1880.0	18900	6.65	13	1880.0	18900	6.99	13
1902.5	19125	6.64	13	1900.0	19100	7.10	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.39	13	1711.5	19965	6.28	13
1732.5	20175	6.28	13	1732.5	20175	6.24	13
1754.3	20393	6.45	13	1753.5	20385	6.39	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	6.16	13	1715.0	20000	6.21	13
1732.5	20175	6.18	13	1732.5	20175	6.05	13
1752.5	20375	6.20	13	1750.0	20350	6.09	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.78	13	1720.0	20050	7.13	13
1732.5	20175	6.61	13	1732.5	20175	6.90	13
1747.5	20325	6.75	13	1745.0	20300	7.09	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq.	CH	Peak-to-Average Ratio (dB)		Freq.	CH	Peak-to-Average Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
824.7	20407	6.49	13	825.5	20415	6.29	13
836.5	20525	6.38	13	836.5	20525	6.32	13
848.3	20643	6.48	13	847.5	20635	6.33	13
LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq.	CH	Peak-to-Average Ratio (dB)		Freq.	CH	Peak-to-Average Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
826.5	20425	6.15	13	829.0	20450	5.04	13
836.5	20525	6.20	13	836.5	20525	6.09	13
846.5	20625	6.20	13	844.0	20600	6.19	13
LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq.	CH	Peak-to-Average Ratio (dB)		Freq.	CH	Peak-to-Average Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
2502.5	20775	6.09	13	2505.0	20800	5.95	13
2535.0	21100	5.66	13	2535.0	21100	5.86	13
2567.5	21425	5.64	13	2565.0	21400	5.87	13
LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq.	CH	Peak-to-Average Ratio (dB)		Freq.	CH	Peak-to-Average Ratio (dB)	
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT
2507.5	20425	6.75	13	2510.0	20850	7.06	13
2535.0	20525	6.55	13	2535.0	21100	7.00	13
2562.5	20625	6.70	13	2560.0	21350	6.98	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
699.7	23017	6.31	13	700.5	23025	6.31	13
707.5	23095	6.12	13	707.5	23095	6.18	13
715.3	23173	6.28	13	714.5	23165	6.25	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
701.5	23035	6.20	13	704.0	23060	6.13	13
707.5	23095	6.05	13	707.5	23095	6.09	13
713.5	23155	6.19	13	711.0	23130	6.26	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	6.18	13	782.0	23230	6.16	13
782.0	23230	6.30	13				13
784.5	23255	6.23	13				13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	26047	5.49	13	26055.0	1851.5	6.14	13
1882.5	26365	5.48	13	26365.0	1882.5	5.70	13
1914.3	26683	5.68	13	26675.0	1913.5	5.91	13
LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	26065	5.73	13	1855.0	26090	5.93	13
1882.5	26365	5.64	13	1882.5	26365	5.81	13
1912.5	26665	5.81	13	1910.0	26640	5.90	13
LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	26115	6.73	13	1860.0	26140	7.17	13
1882.5	26365	6.55	13	1882.5	26365	6.87	13
1907.5	16615	6.57	13	1905.0	26590	6.79	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	26797	6.31	13	825.5	26805	6.21	13
836.5	26915	6.31	13	836.5	26915	6.19	13
848.3	27033	6.29	13	847.5	27025	6.31	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	26815	6.12	13	829.0	26840	6.11	13
836.5	26915	6.09	13	836.5	26915	6.19	13
846.5	27015	6.17	13	844.0	26990	6.11	13

LTE BAND 26			
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT
831.5	26865	6.74	13
836.5	26915	6.67	13
841.5	26965	6.74	13

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LTE BAND 26 for Part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio		Freq. (MHz)	CH	Peak-to-Average Ratio	
		16QAM	Limit			16QAM	Limit
814.7	26697	6.32	13	815.5	26705	6.28	13
819	26740	6.31	13	819	26740	6.29	13
823.3	26783	6.37	13	822.5	26775	6.30	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio		Freq. (MHz)	CH	Peak-to-Average Ratio	
		16QAM	Limit			16QAM	Limit
816.5	26715	10.08	13	819.0	26740	6.69	13
819	26740	6.09	13				
821.5	26765	6.14	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio		Freq. (MHz)	CH	Peak-to-Average Ratio	
		16QAM	Limit			16QAM	Limit
2307.5	27685	5.48	13	2310.0	27710	6.73	13
2310	27710	5.54	13				
2312.5	27735	5.48	13				

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2547.5	40165	10.37	13	2550.0	40190	10.33	13
2600.0	40690	8.82	13	2600.0	40690	10.13	13
2652.5	41215	9.37	13	2650.0	41190	10.03	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
2552.5	40215	9.73	13	2555.0	40240	9.61	13
2600.0	40690	9.90	13	2600.0	40690	10.18	13
2647.5	41165	9.22	13	2645.0	41140	9.42	13

Measurement Results:

Please refer to next page.

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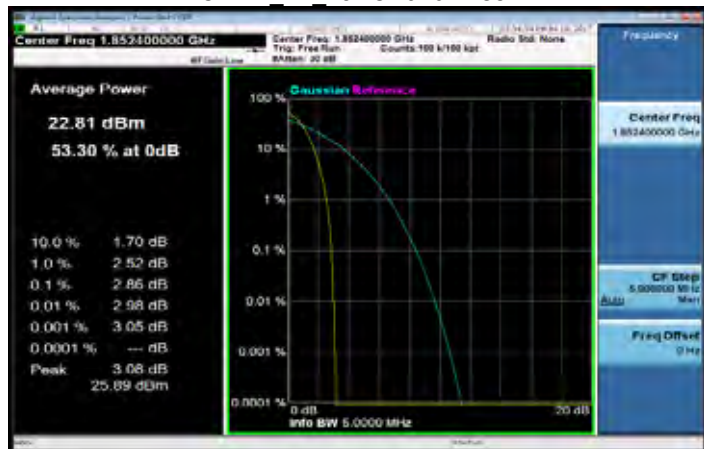
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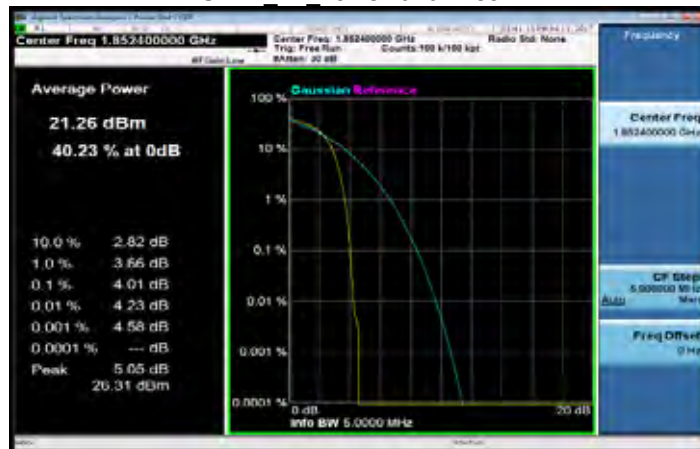
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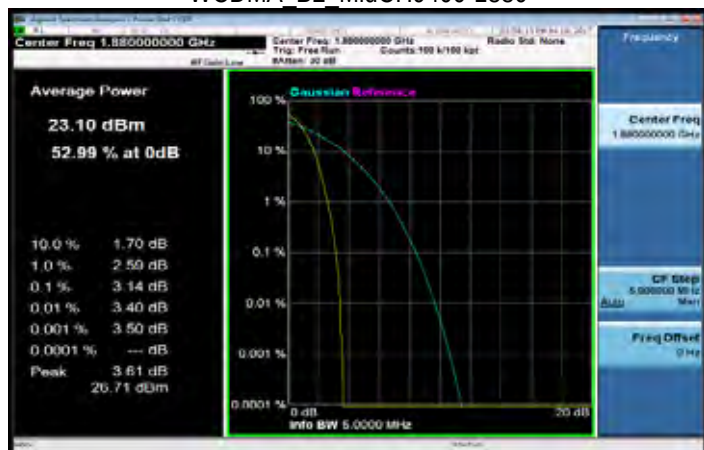
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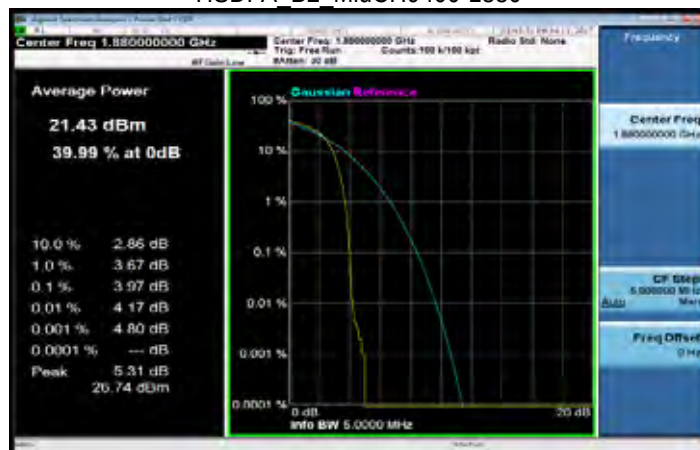
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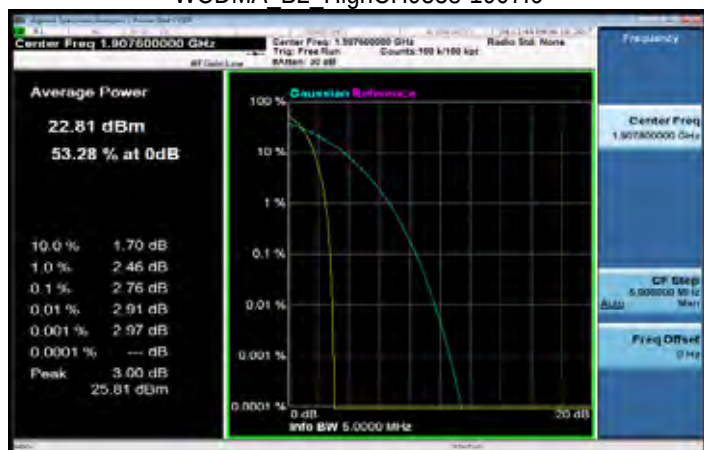
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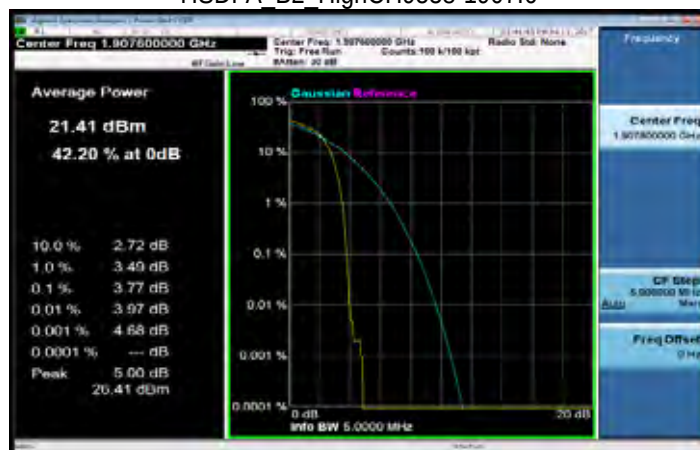
HSDPA B2 MidCH9400-1880



WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6



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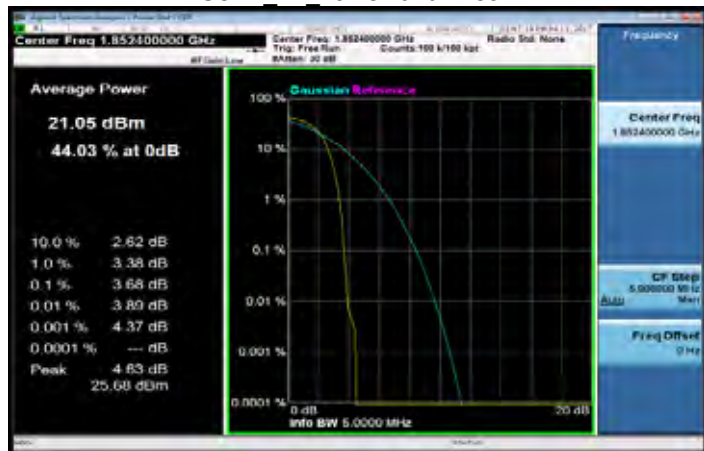
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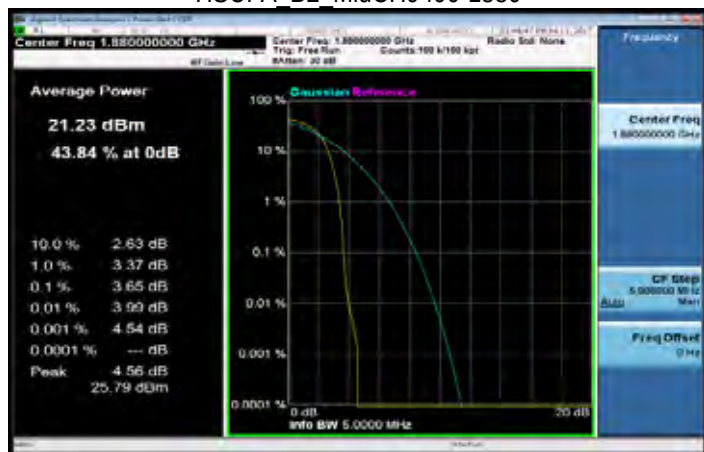
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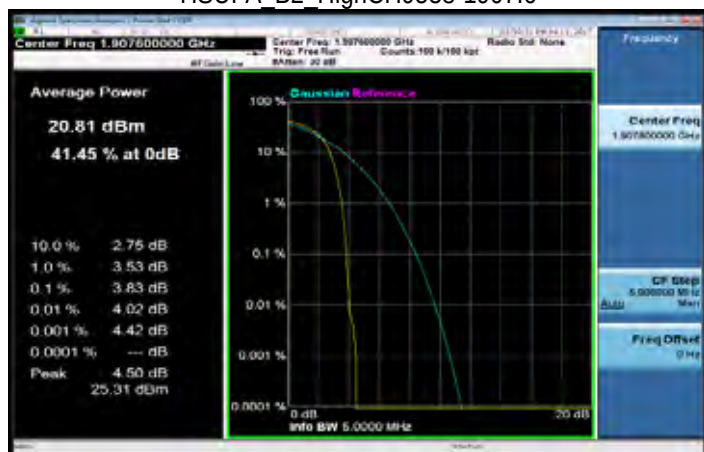
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HSUPA_B2_MidCH9400-1880



HSUPA_B2_HighCH9538-1907.6



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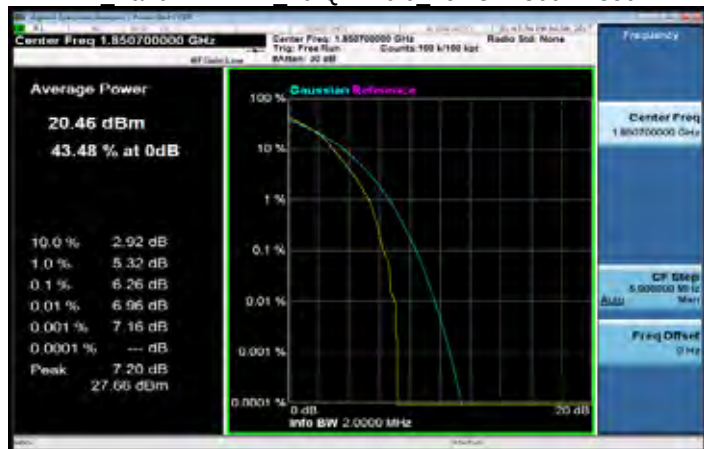
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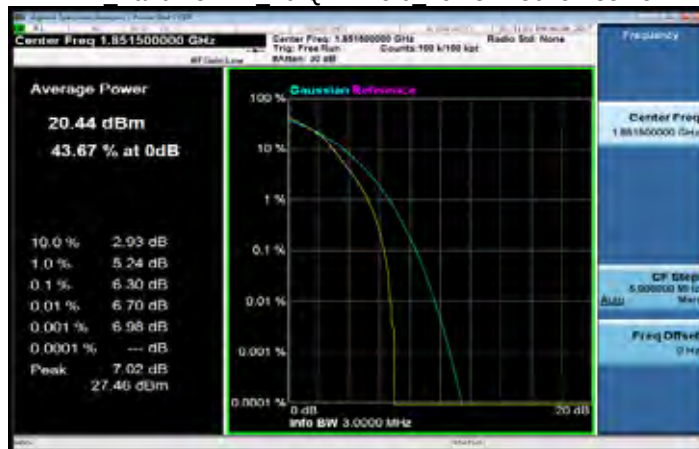
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LTE_Band2 3MHz 16-QAM 15 0_LowCH18615-1851.5



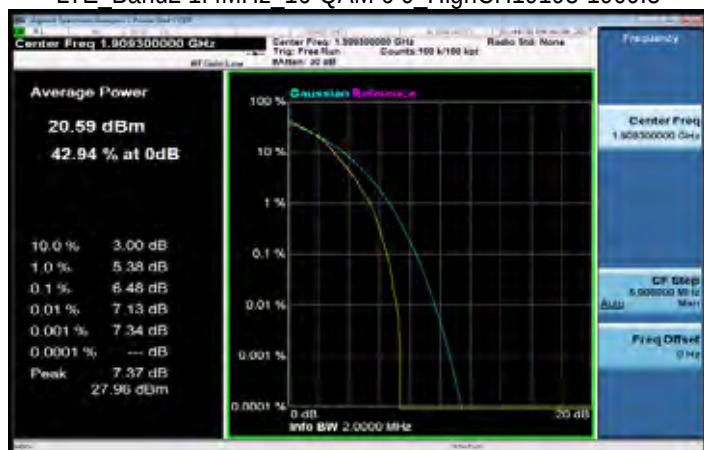
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LTE_Band2 3MHz 16-QAM 15 0_MidCH18900-1880



LTE_Band2 1.4MHz 16-QAM 6 0_HighCH19193-1909.3



LTE_Band2 3MHz 16-QAM 15 0_HighCH19185-1908.5



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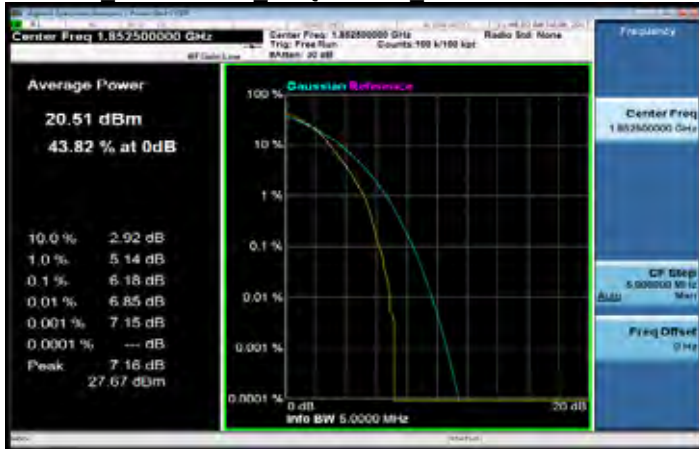
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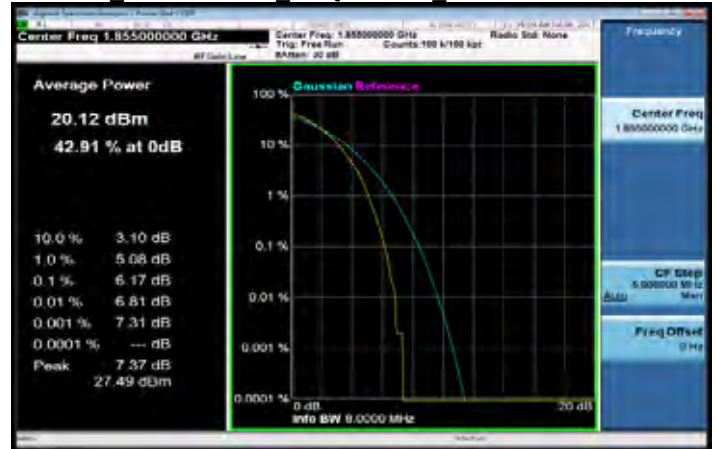
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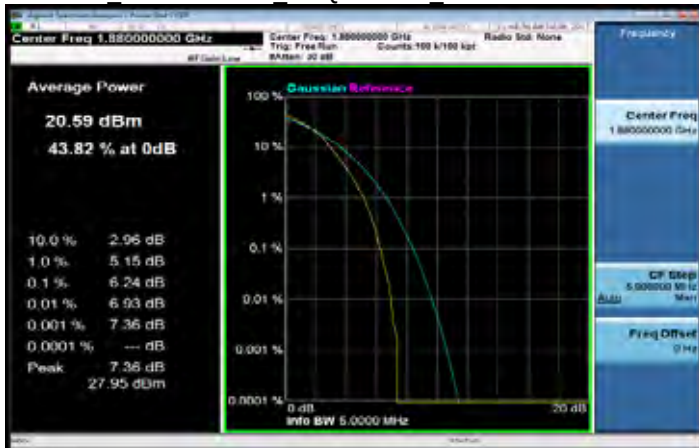
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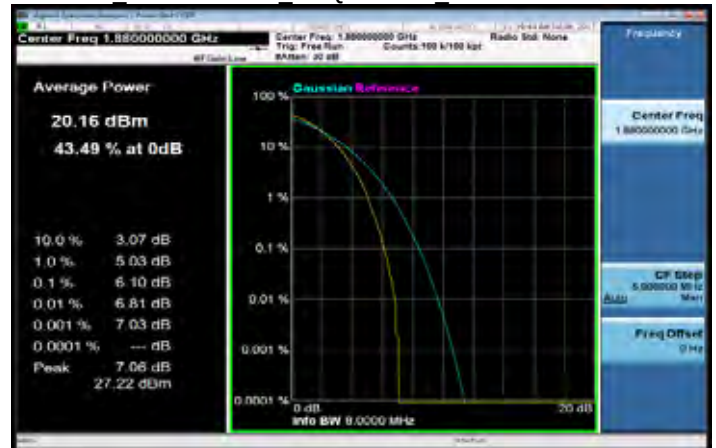
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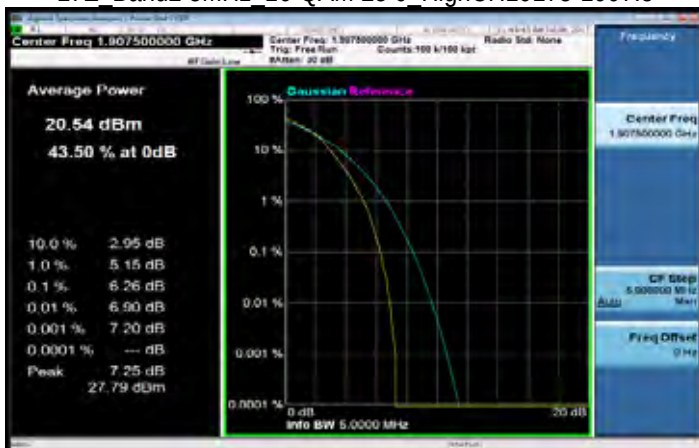
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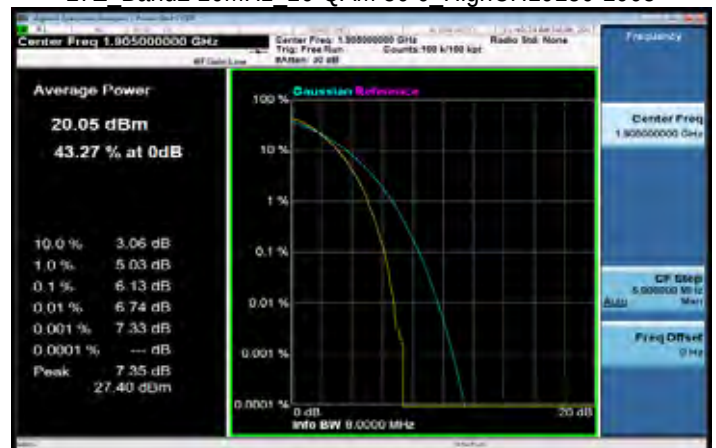
LTE_Band2 10MHz 16-QAM 50 0_MidCH18900-1880



LTE_Band2 5MHz 16-QAM 25 0_HighCH19175-1907.5



LTE_Band2 10MHz 16-QAM 50 0_HighCH19150-1905



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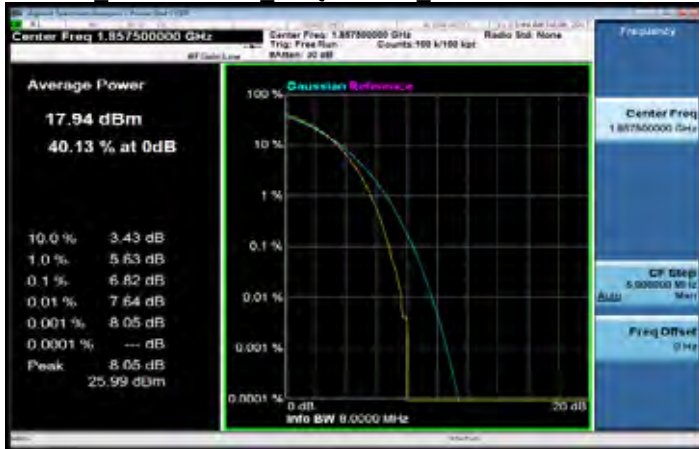
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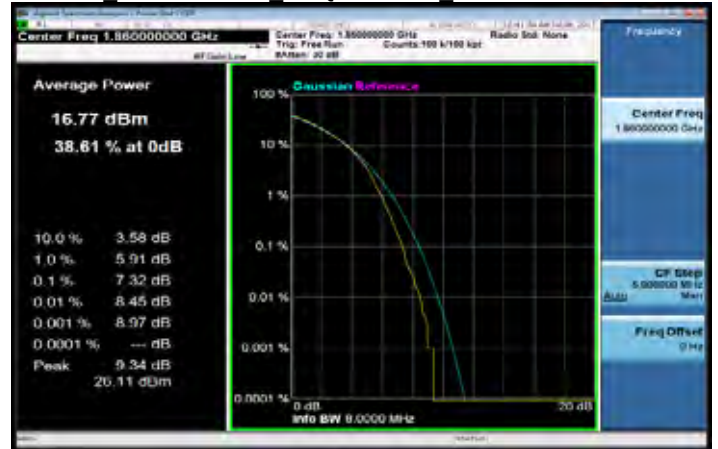
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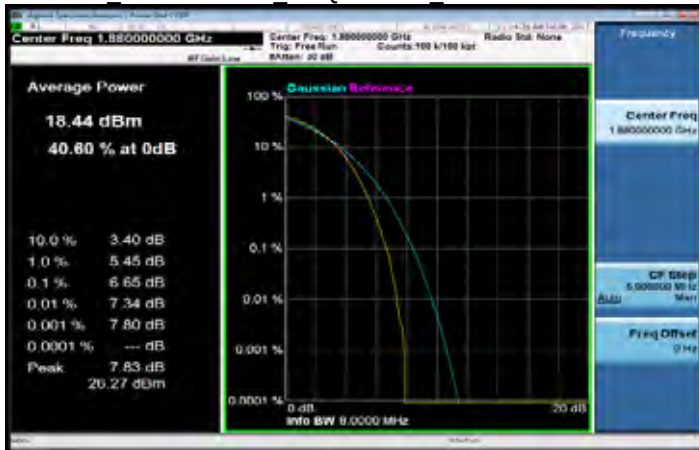
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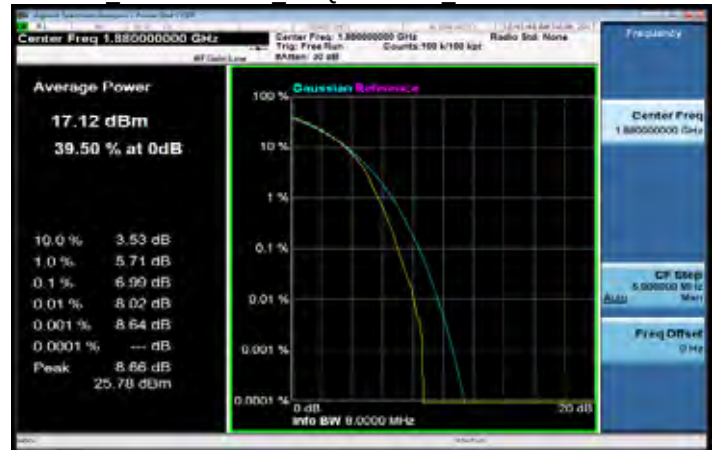
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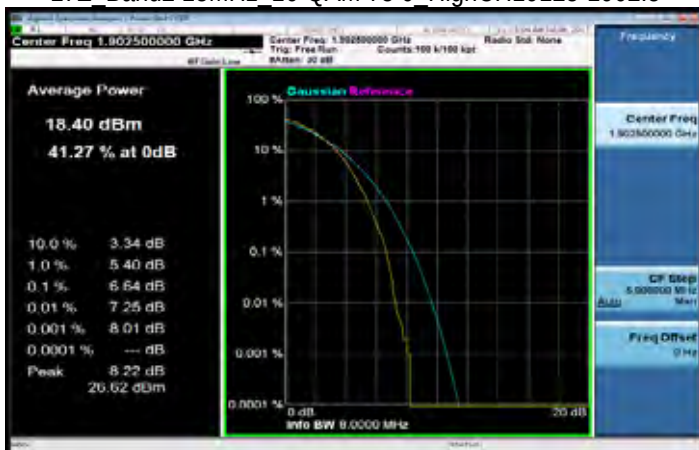
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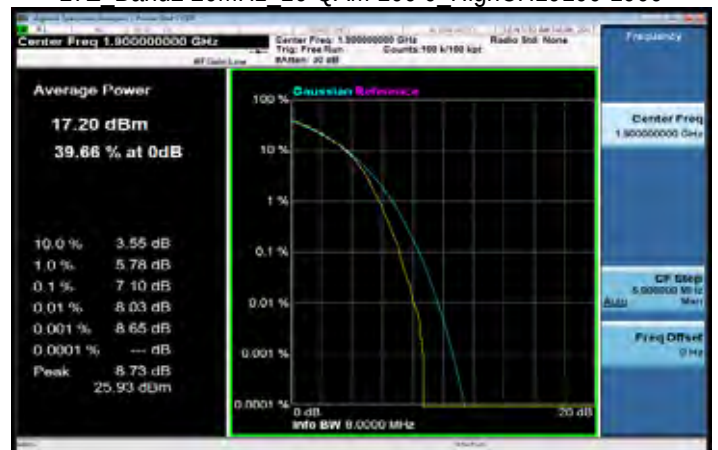
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LTE Band2 20MHz 16-QAM 100 0 HighCH19100-1900



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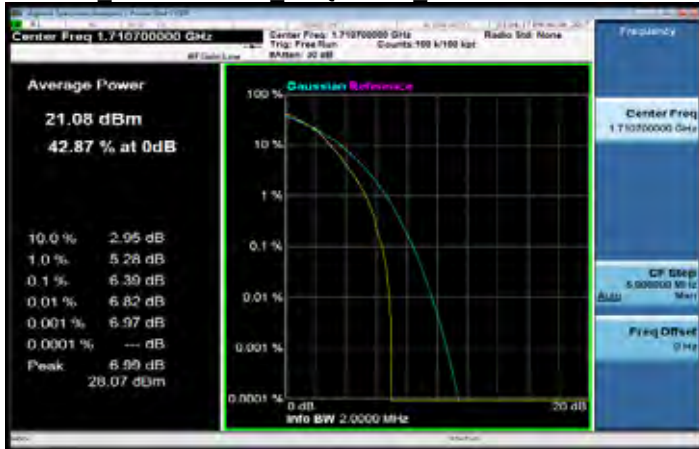
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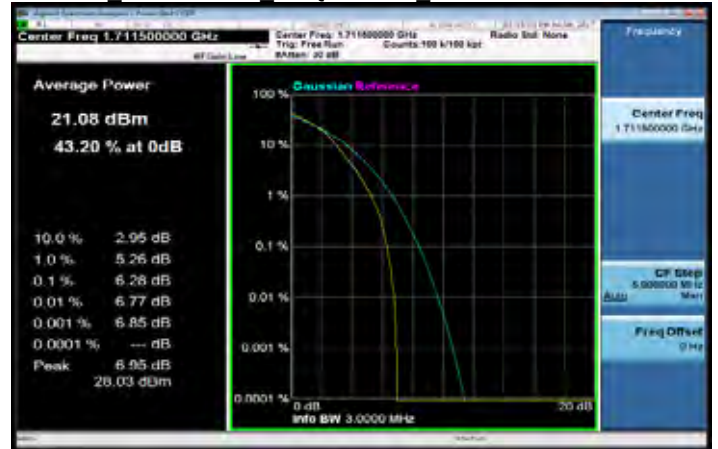
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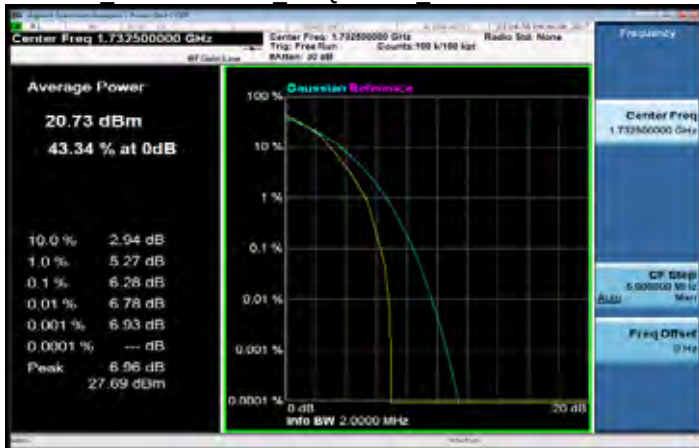
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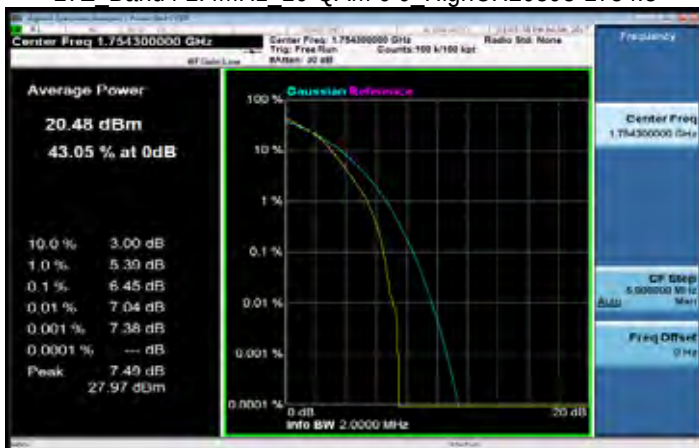
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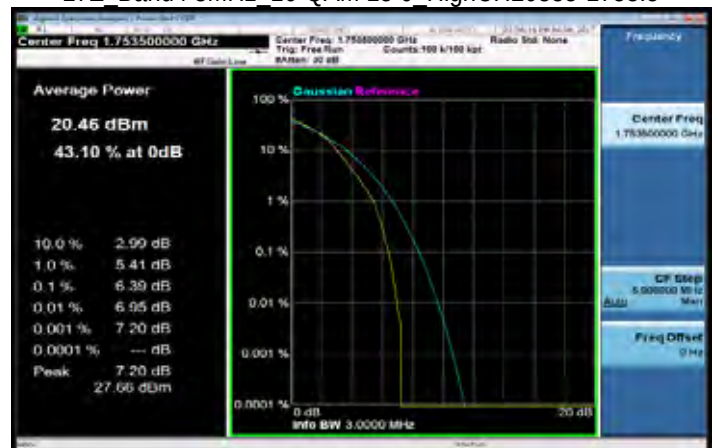
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LTE Band4 1.4MHz 16-QAM 6 0 HighCH20393-1754.3



LTE Band4 3MHz 16-QAM 15 0 HighCH20385-1753.5



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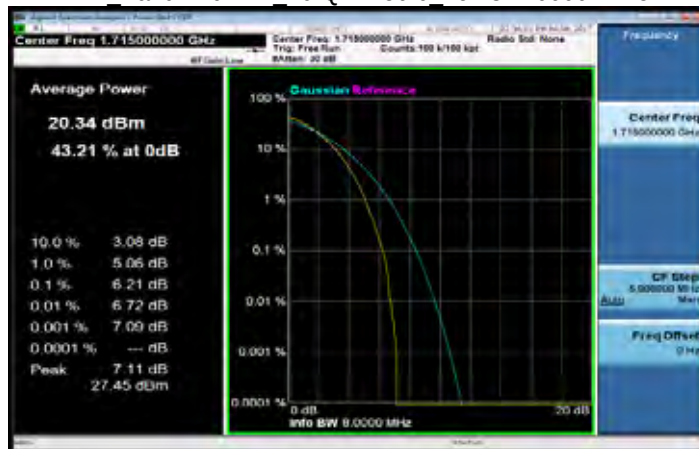
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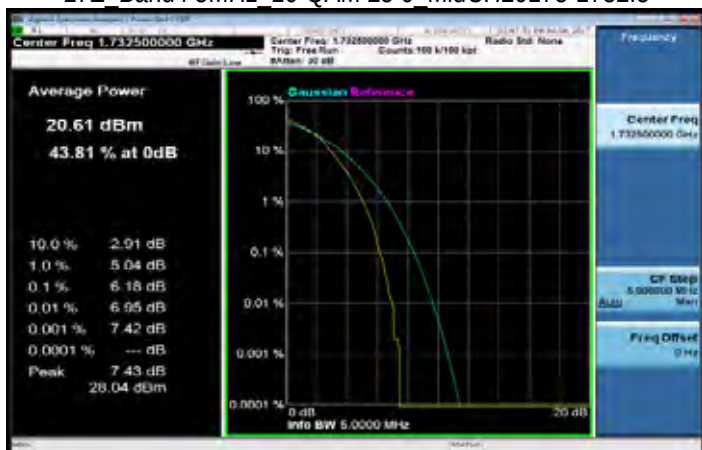
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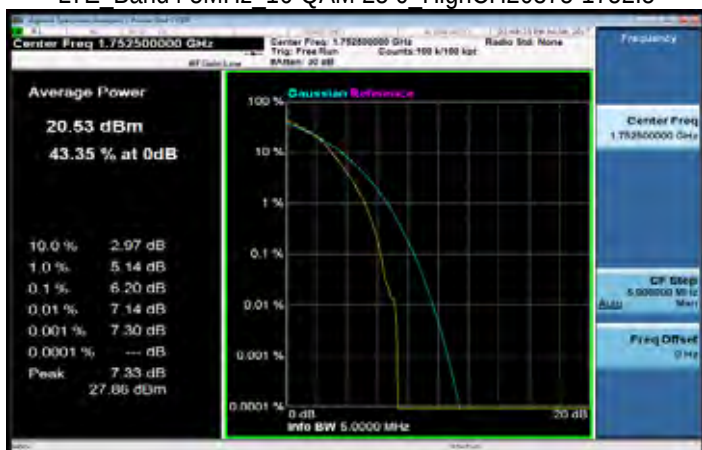
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LTE_Band4 10MHz 16-QAM 50 0_HighCH20350-1750



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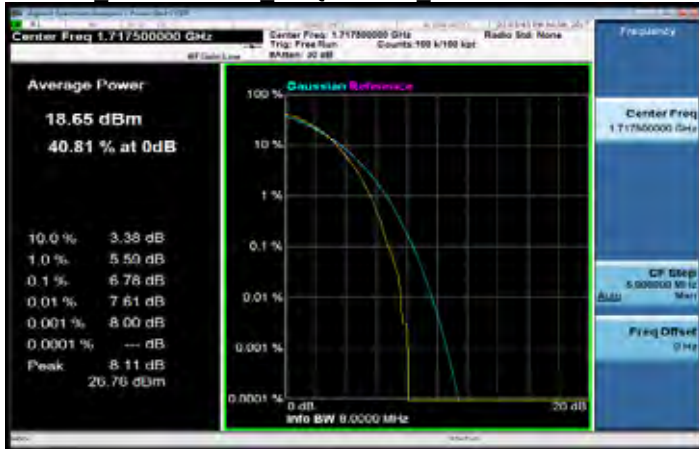
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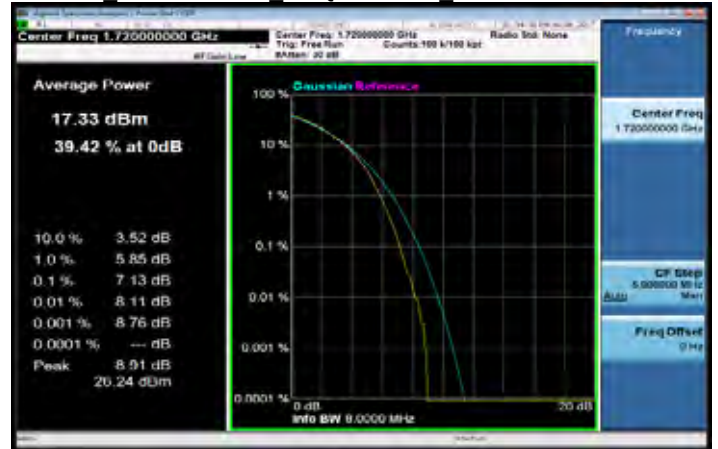
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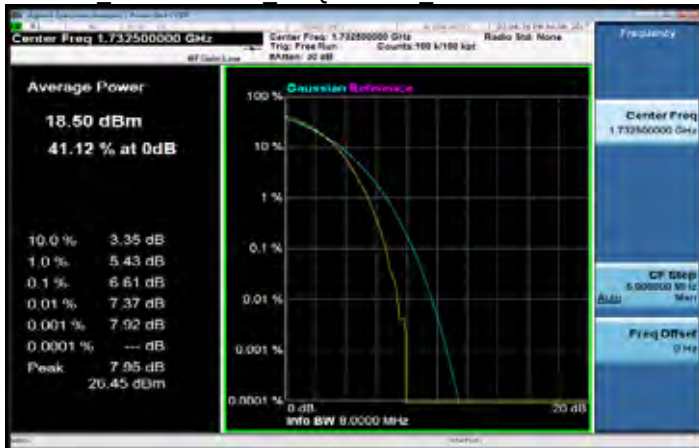
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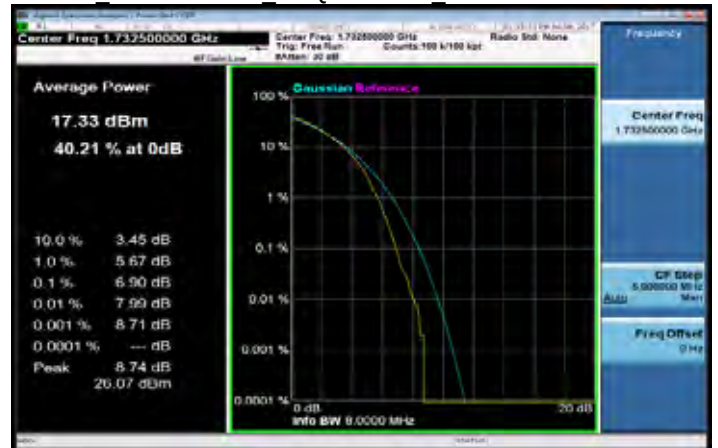
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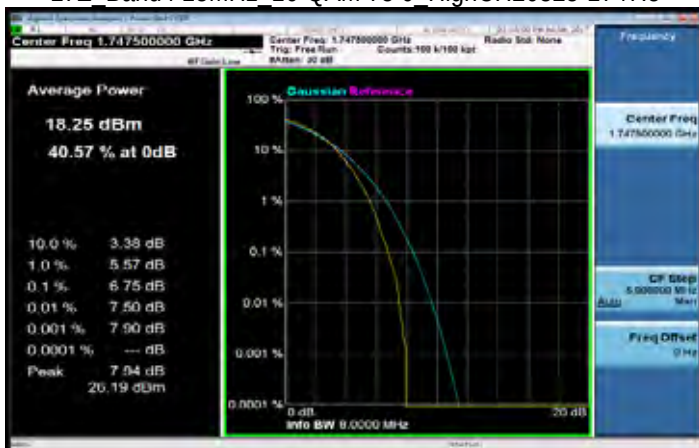
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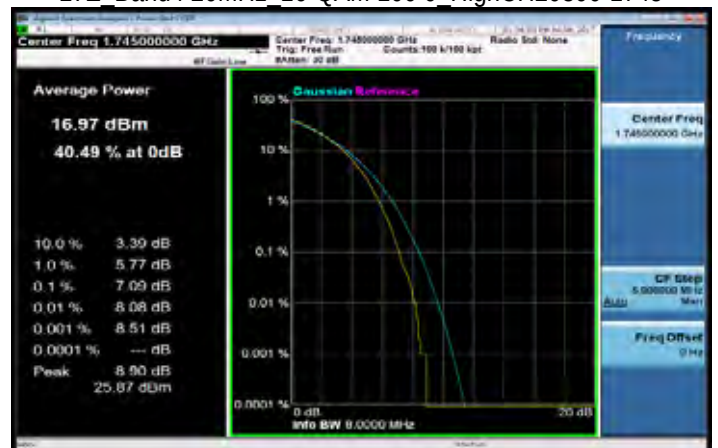
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LTE Band4 20MHz 16-QAM 100 0 HighCH20300-1745



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