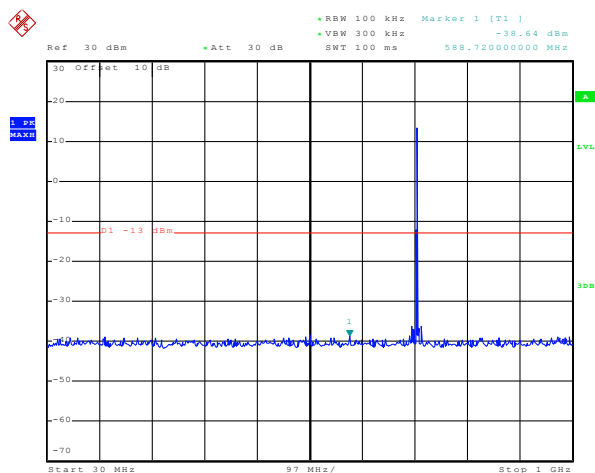
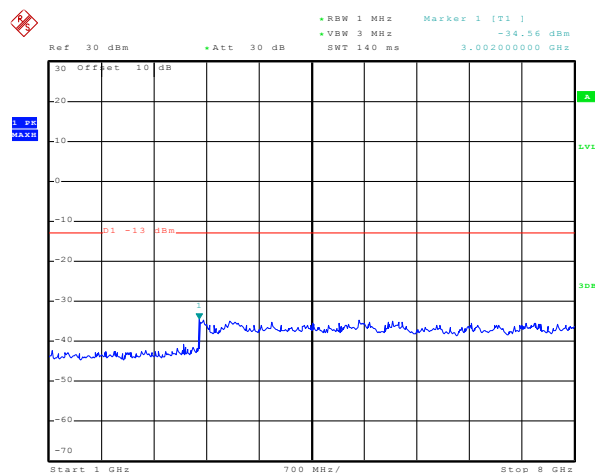


Test Mode:	LTE band 17(5MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:20:48

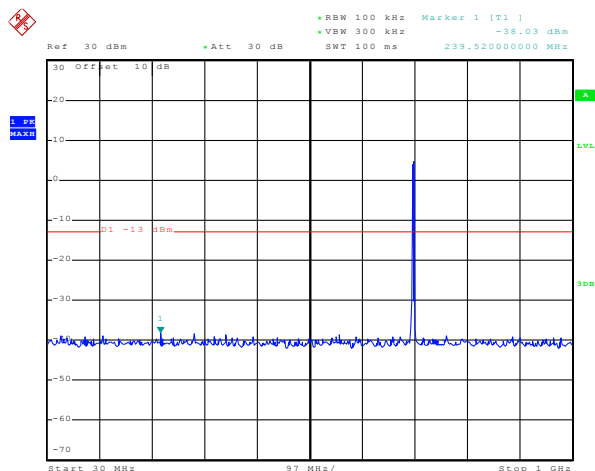
30MHz~1GHz



Date: 19.MAY.2015 10:18:58

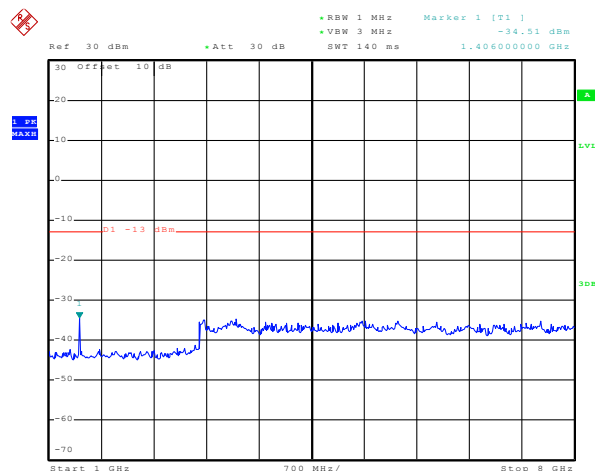
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:25:18

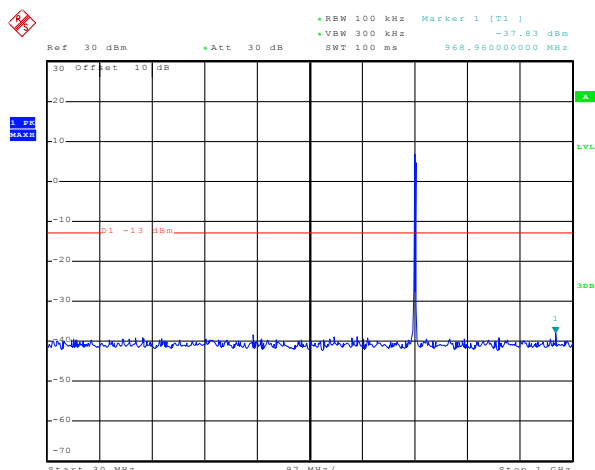
30MHz~1GHz



Date: 19.MAY.2015 10:16:00

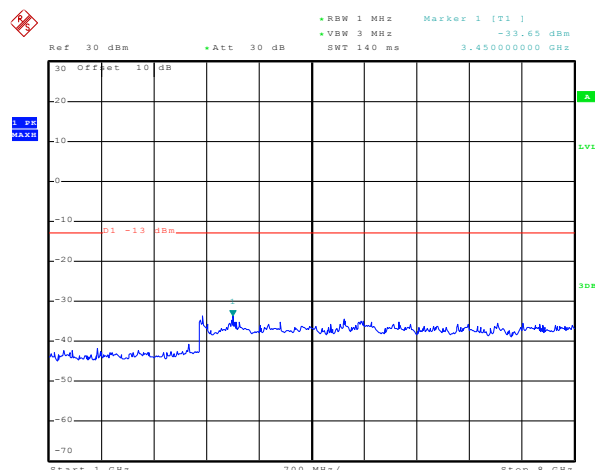
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:24:00

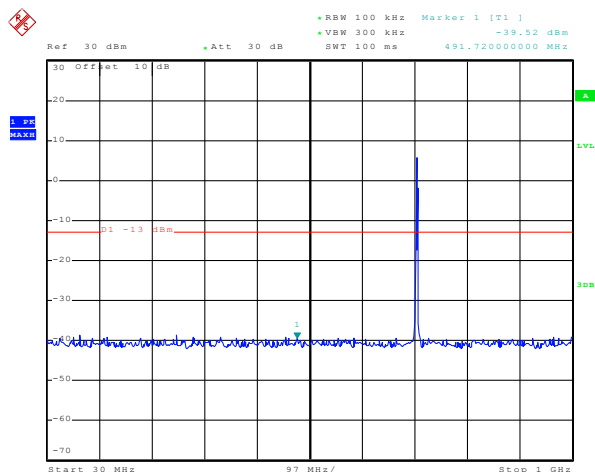
30MHz~1GHz



Date: 19.MAY.2015 10:17:07

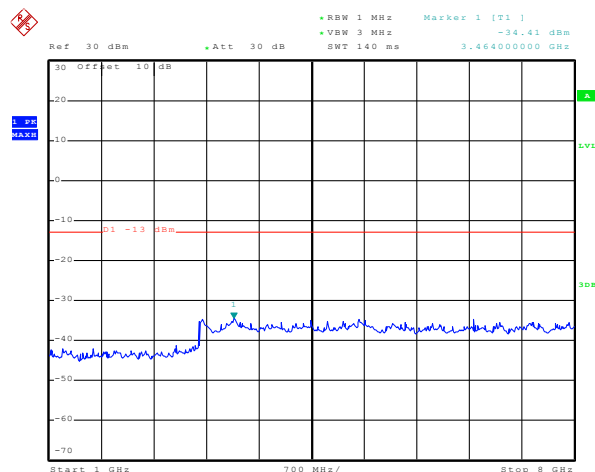
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:21:09

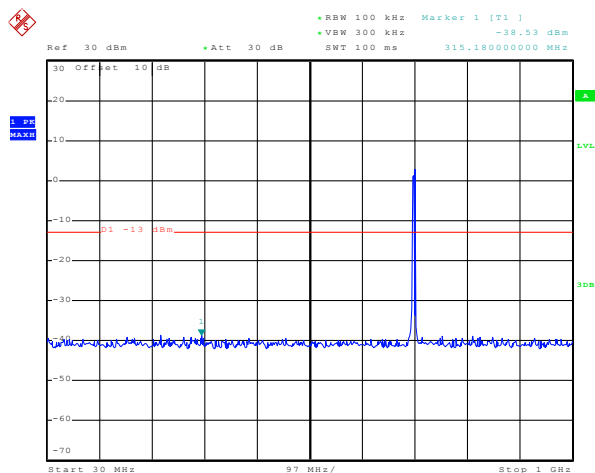
30MHz~1GHz



Date: 19.MAY.2015 10:19:11

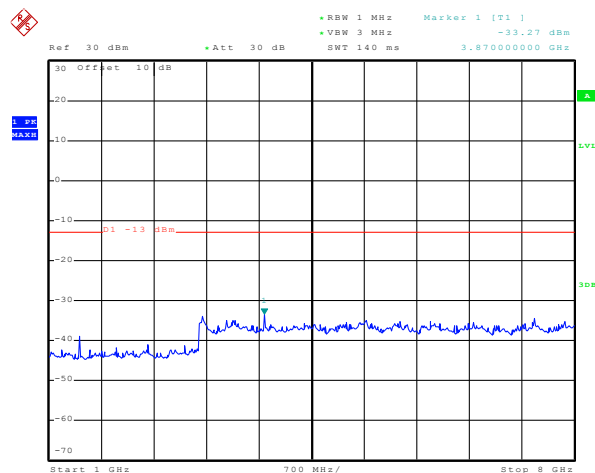
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:24:43

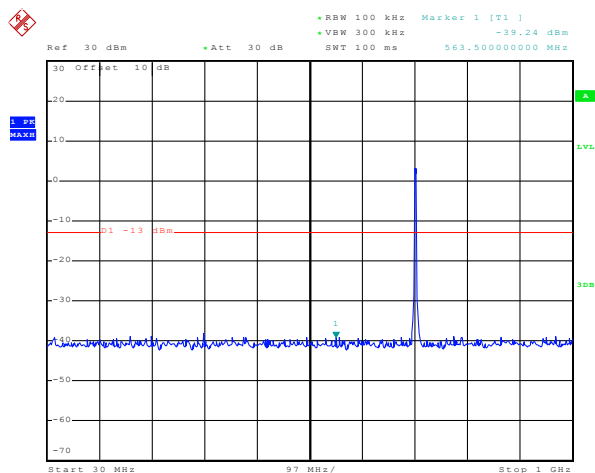
30MHz~1GHz



Date: 19.MAY.2015 10:16:16

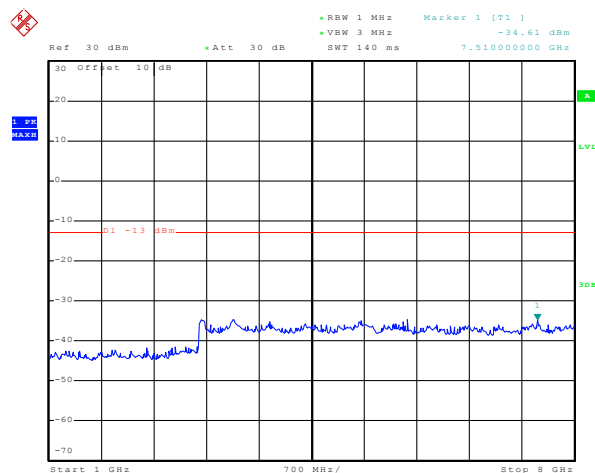
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:24:17

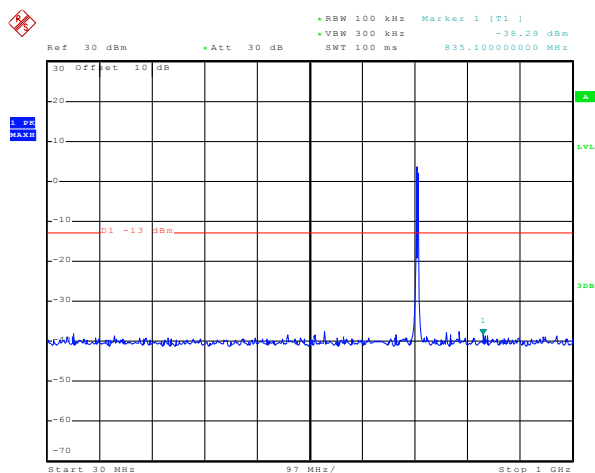
30MHz~1GHz



Date: 19.MAY.2015 10:16:41

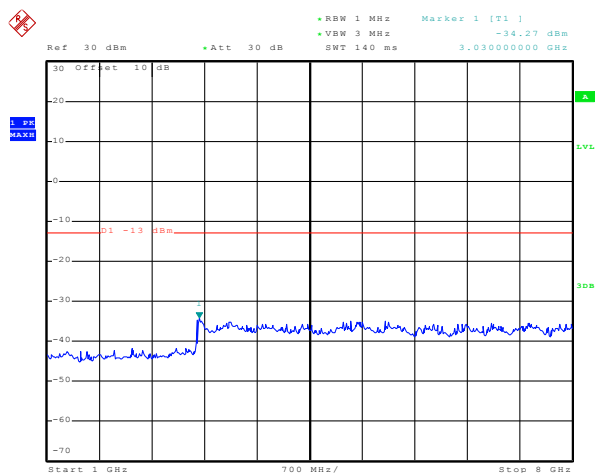
1GHz~8GHz

Test Mode:	LTE band 17(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:20:20

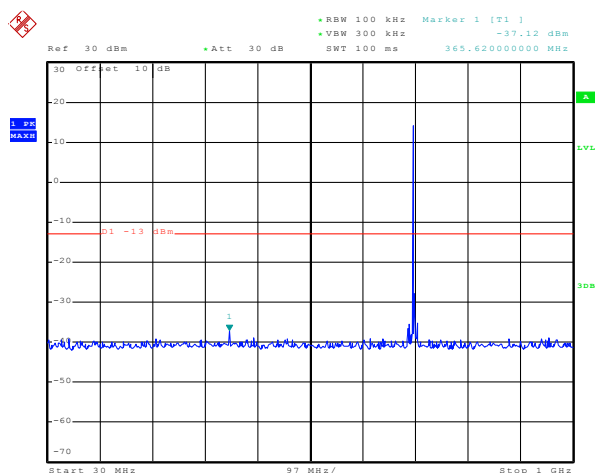
30MHz~1GHz



Date: 19.MAY.2015 10:19:22

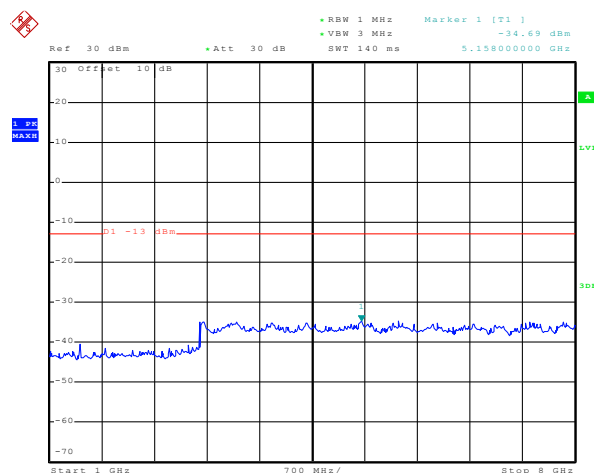
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:25:36

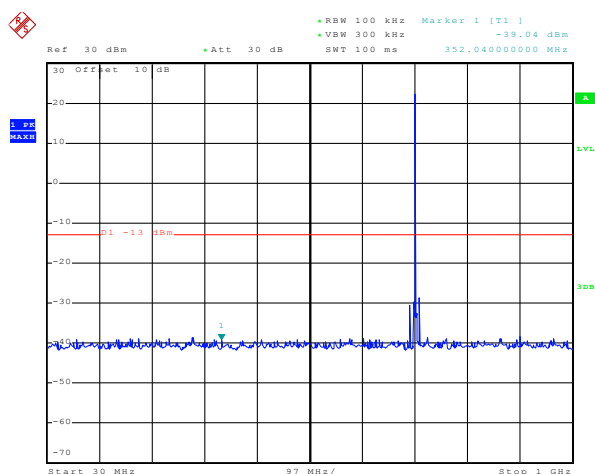
30MHz~1GHz



Date: 19.MAY.2015 10:15:04

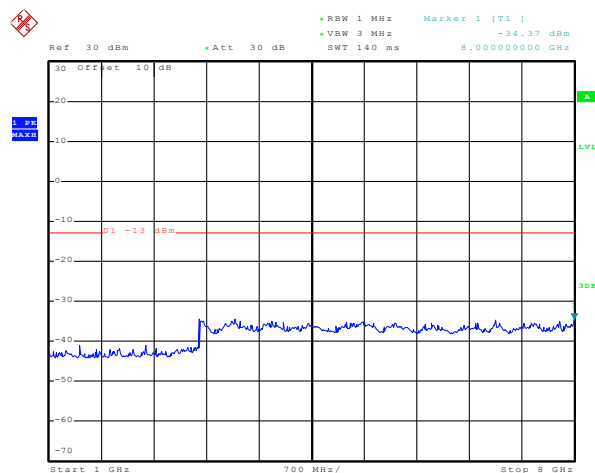
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:23:03

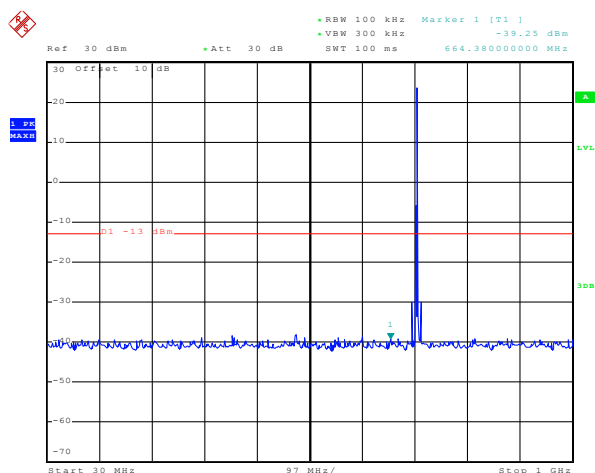
30MHz~1GHz



Date: 19.MAY.2015 10:17:27

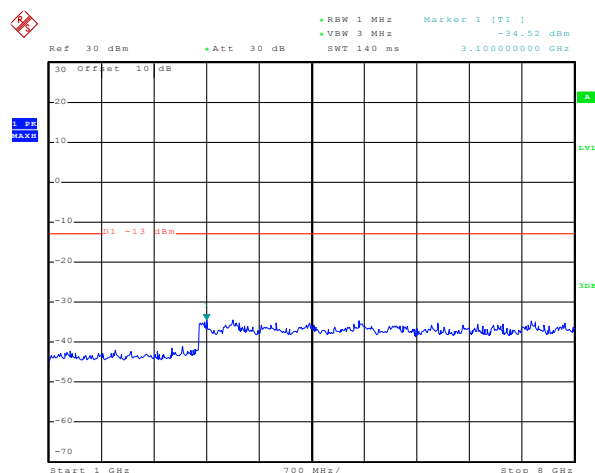
+
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:21:26

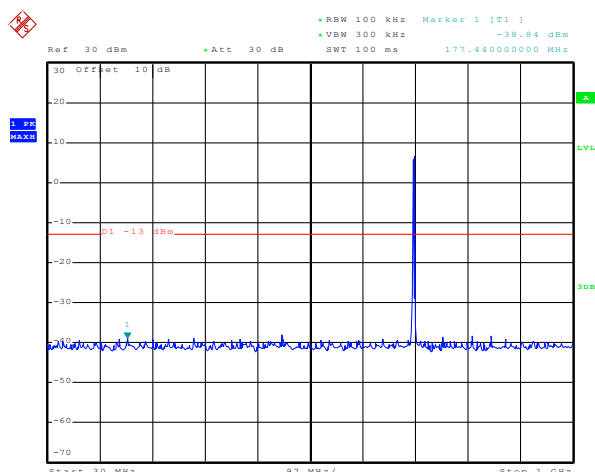
30MHz~1GHz



Date: 19.MAY.2015 10:18:31

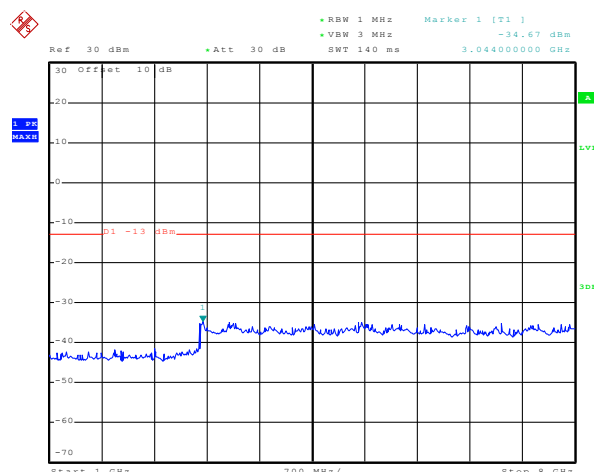
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:25:53

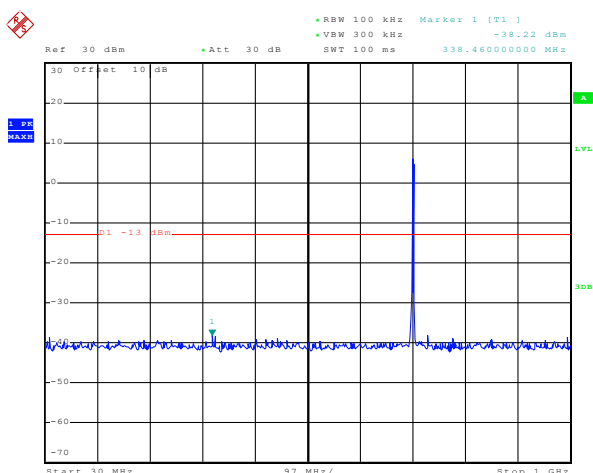
30MHz~1GHz



Date: 19.MAY.2015 10:15:18

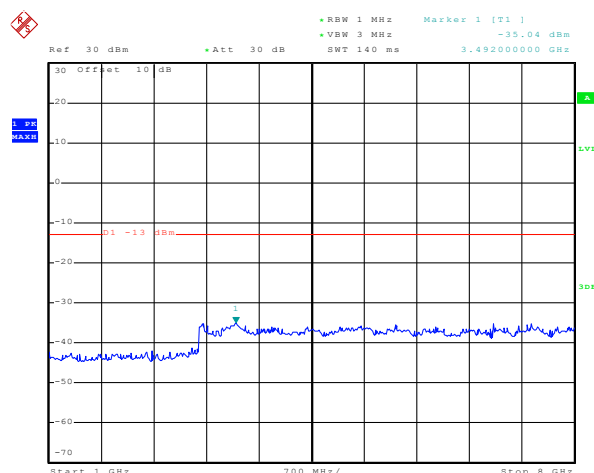
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:23:19

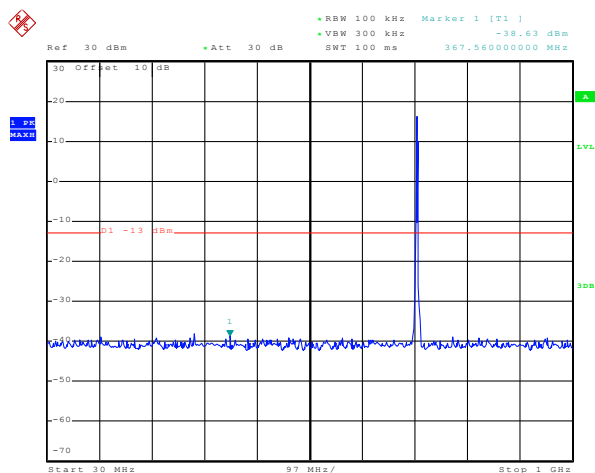
30MHz~1GHz



Date: 19.MAY.2015 10:17:40

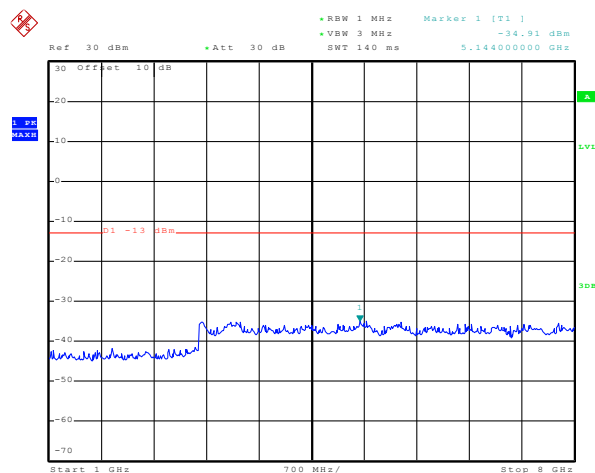
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:21:55

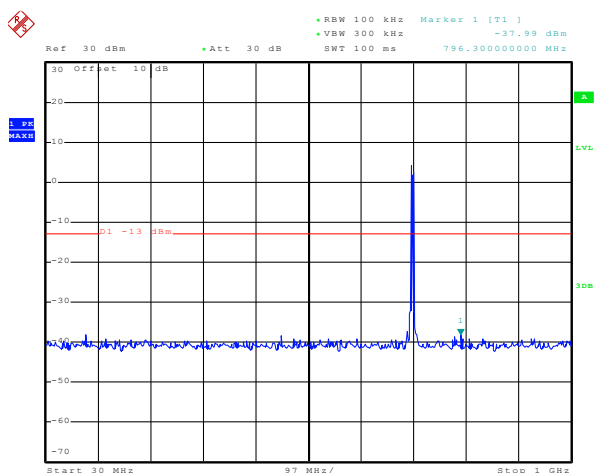
30MHz~1GHz



Date: 19.MAY.2015 10:18:43

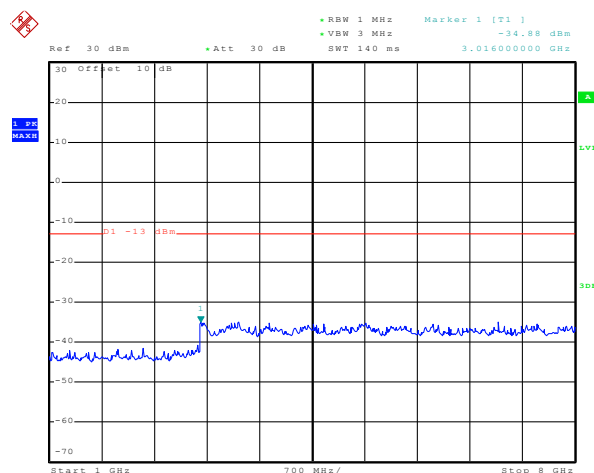
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:26:10

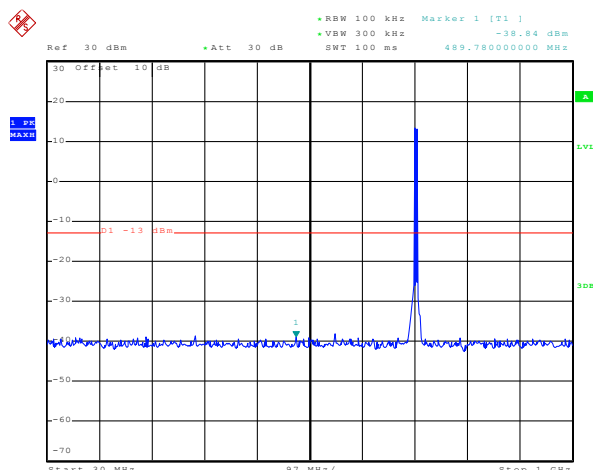
30MHz~1GHz



Date: 19.MAY.2015 10:15:29

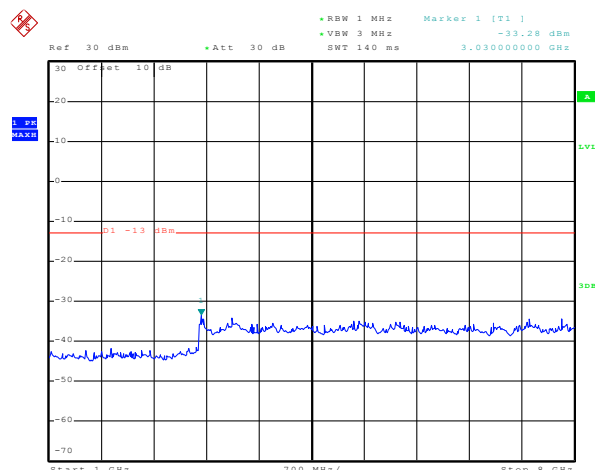
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:22:41

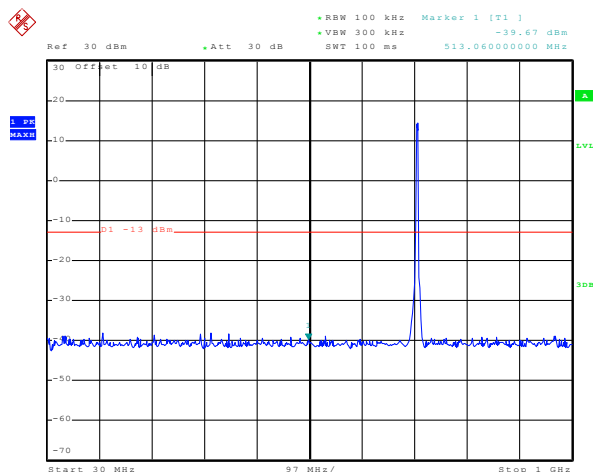
30MHz~1GHz



Date: 19.MAY.2015 10:17:55

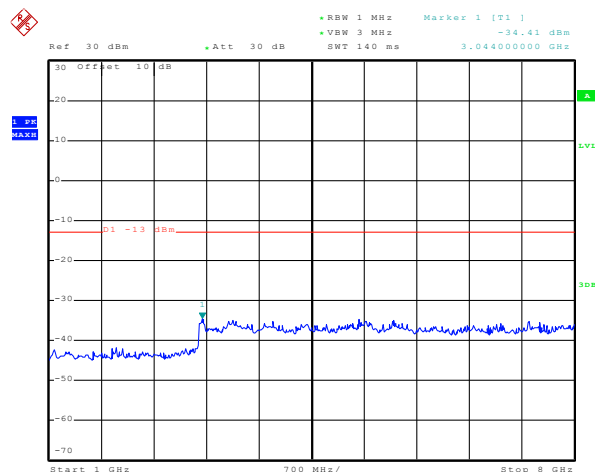
1GHz~8GHz

Test Mode:	LTE band 17(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:22:13

30MHz~1GHz

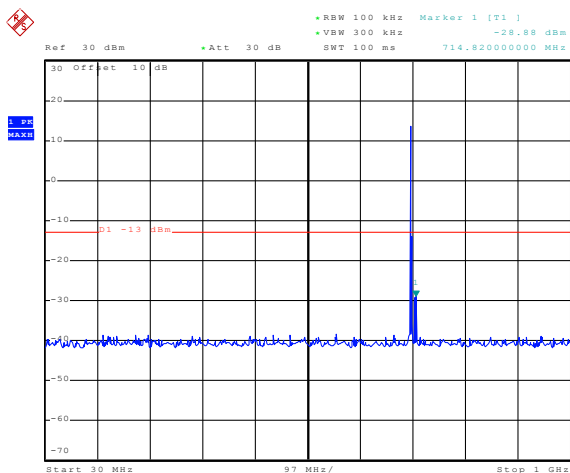


Date: 19.MAY.2015 10:18:18

1GHz~8GHz

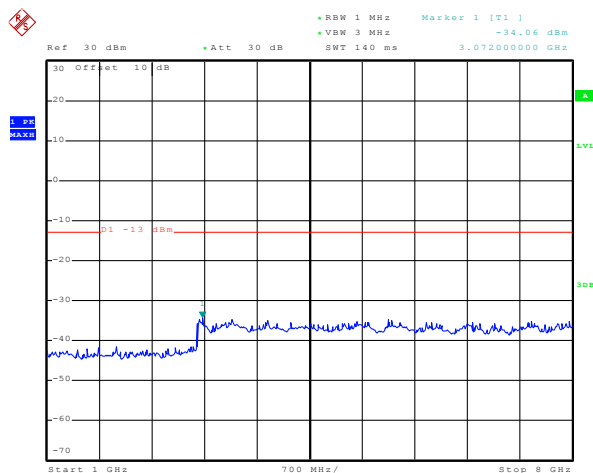
10MHz:

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:30:25

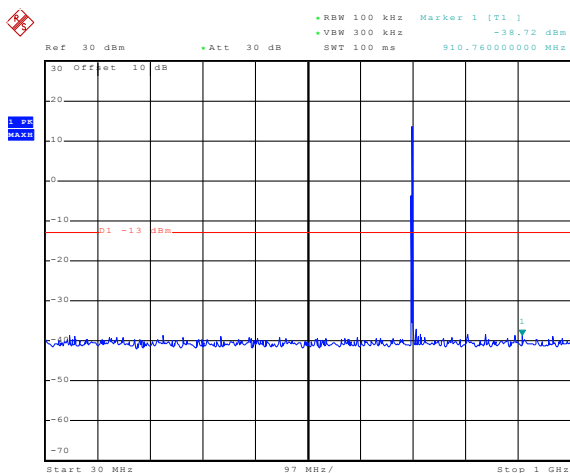
30MHz~1GHz



Date: 19.MAY.2015 10:44:31

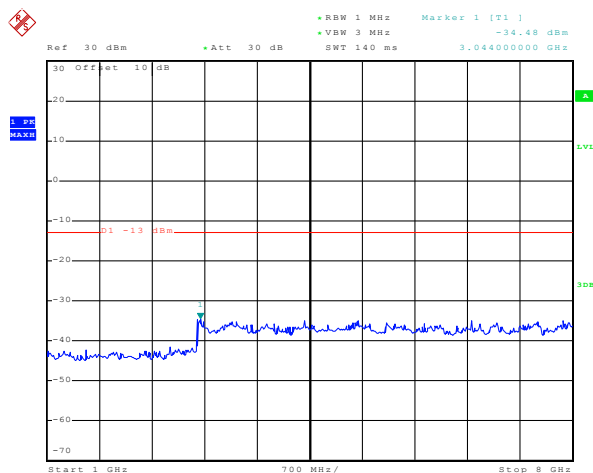
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:31:42

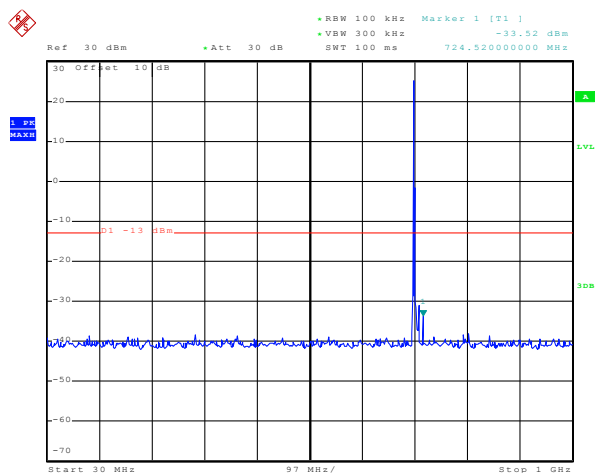
30MHz~1GHz



Date: 19.MAY.2015 10:38:19

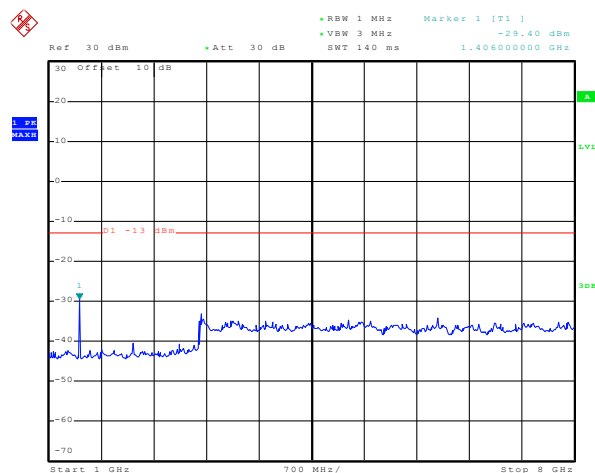
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:34:34

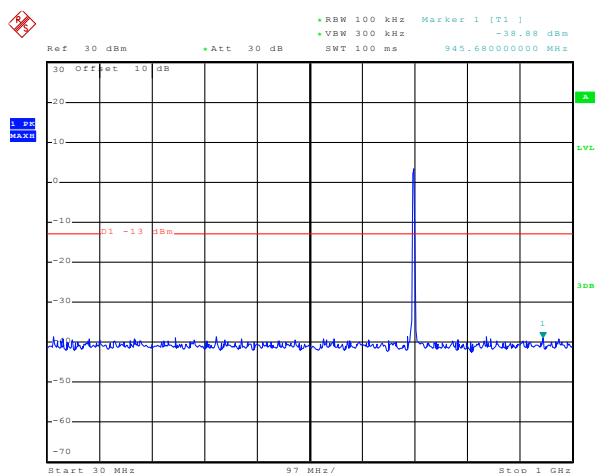
30MHz~1GHz



Date: 19.MAY.2015 10:36:04

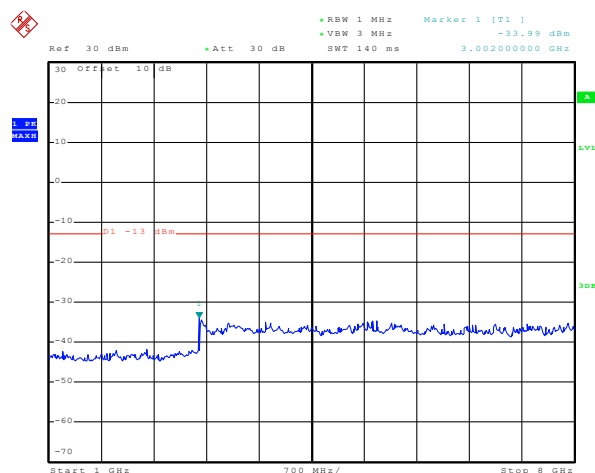
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:30:41

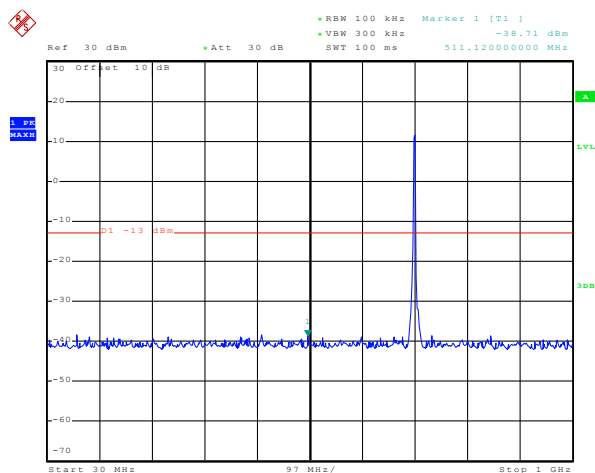
30MHz~1GHz



Date: 19.MAY.2015 10:44:42

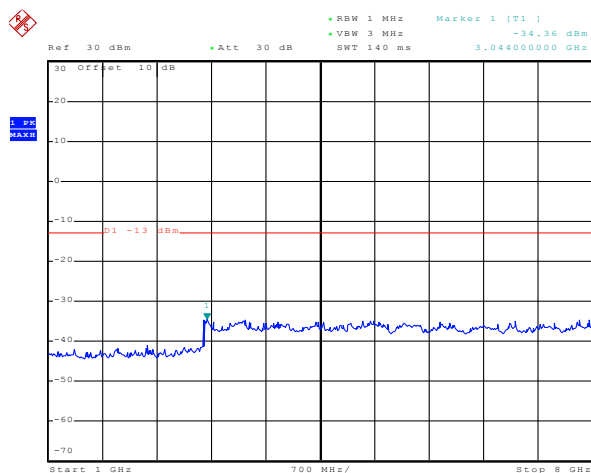
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:31:59

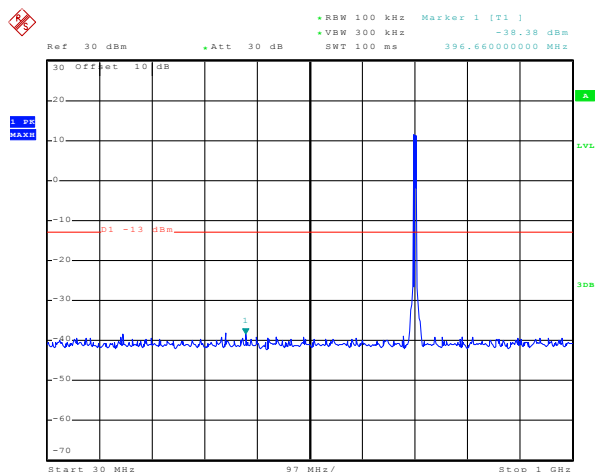
30MHz~1GHz



Date: 19.MAY.2015 10:38:08

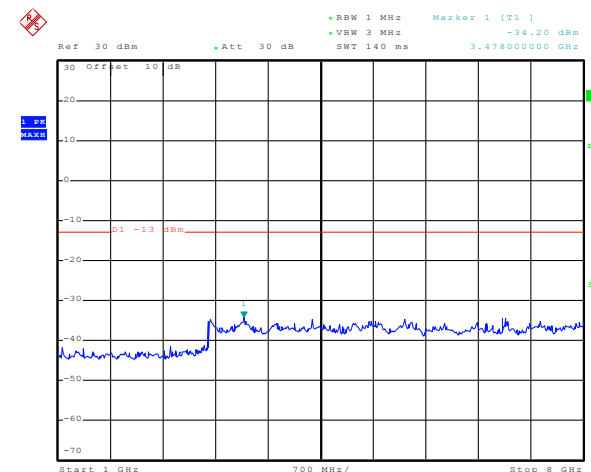
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:34:50

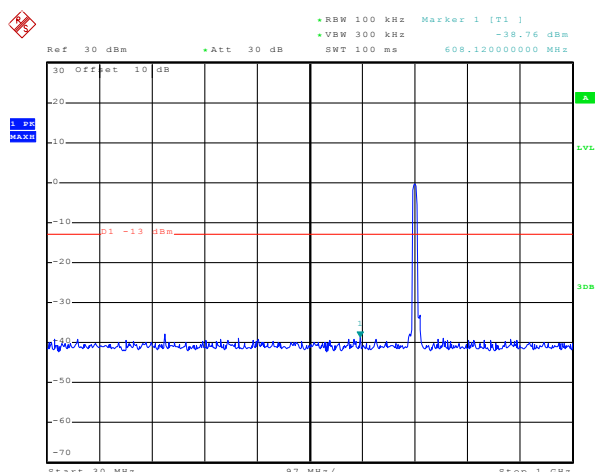
30MHz~1GHz



Date: 19.MAY.2015 10:36:15

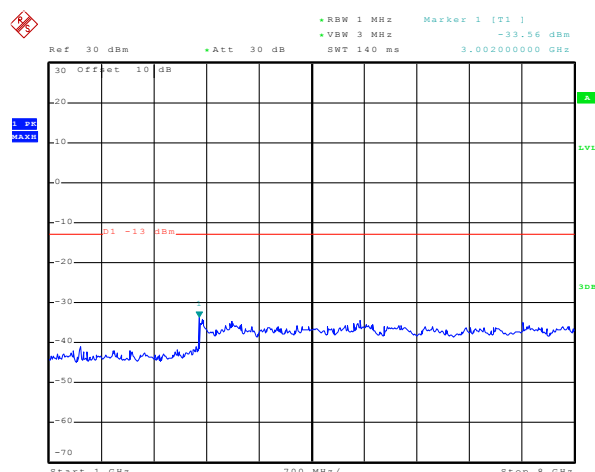
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:30:56

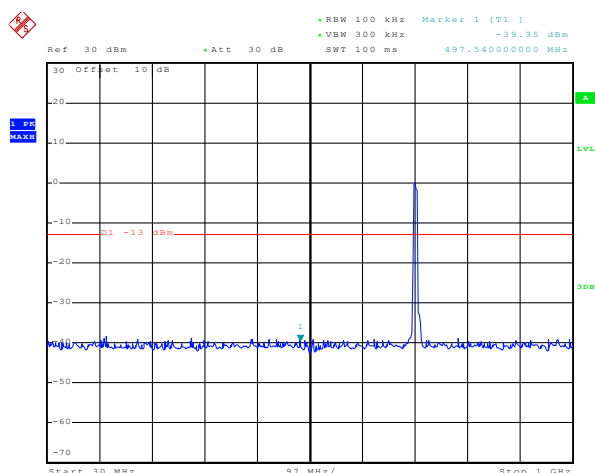
30MHz~1GHz



Date: 19.MAY.2015 10:44:53

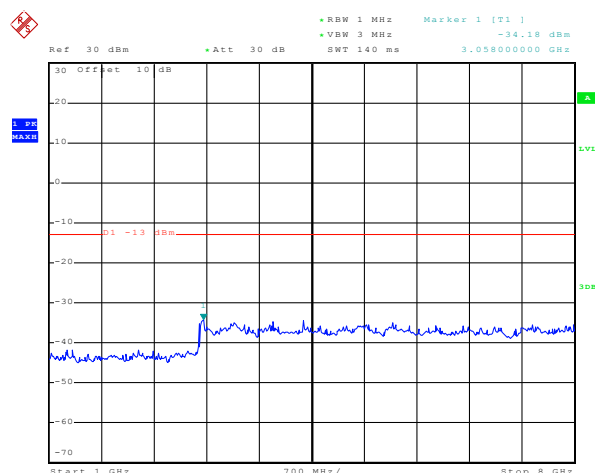
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:31:20

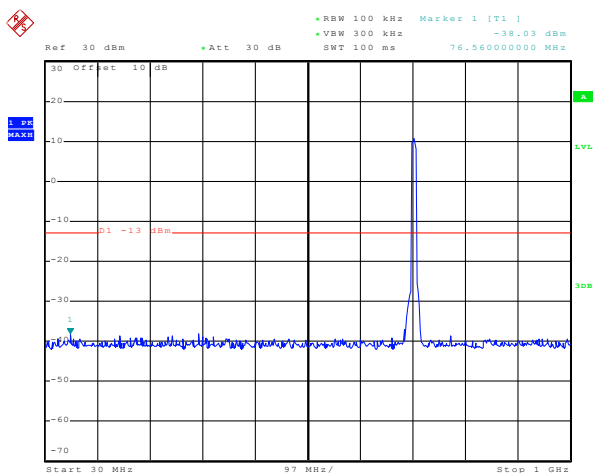
30MHz~1GHz



Date: 19.MAY.2015 10:38:30

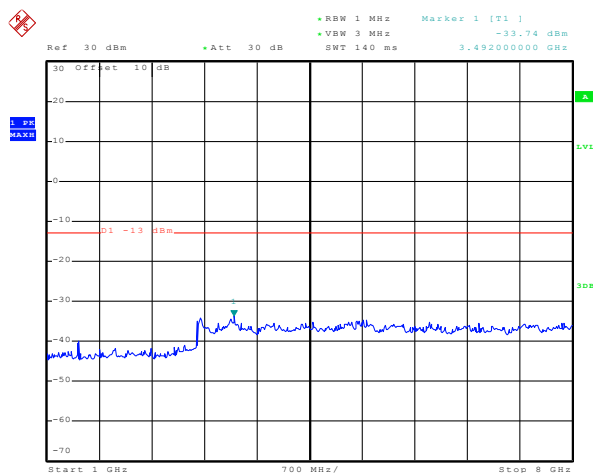
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:35:14

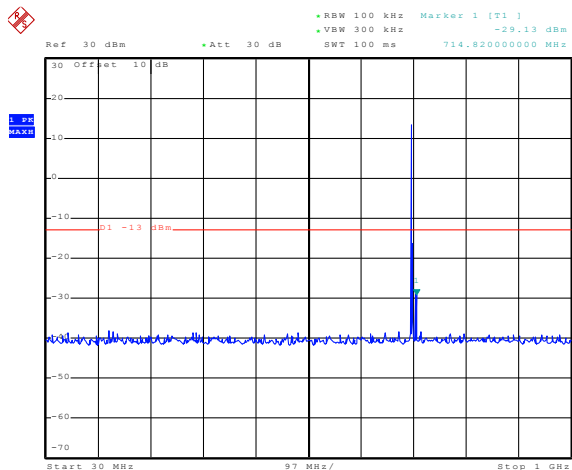
30MHz~1GHz



Date: 19.MAY.2015 10:35:43

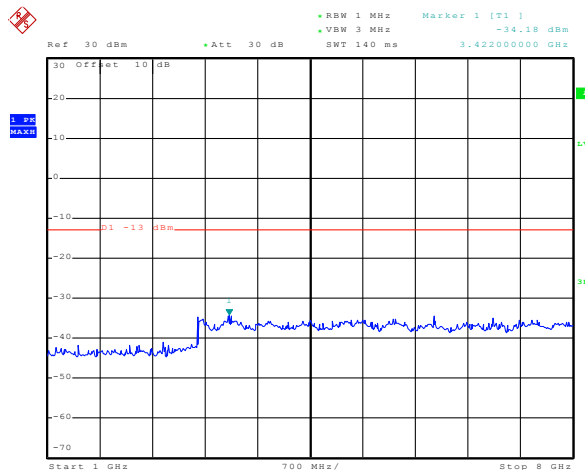
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:29:30

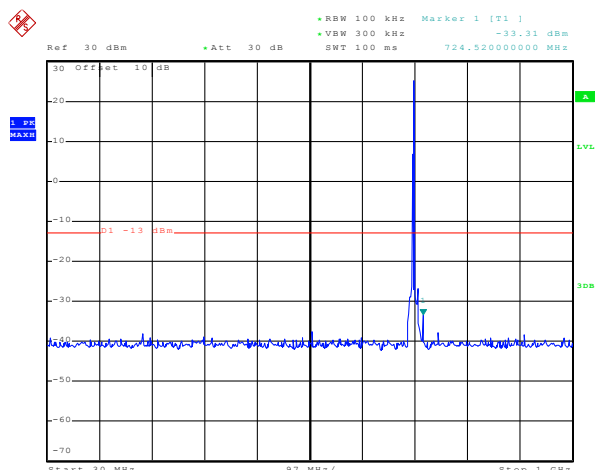
30MHz~1GHz



Date: 19.MAY.2015 10:43:53

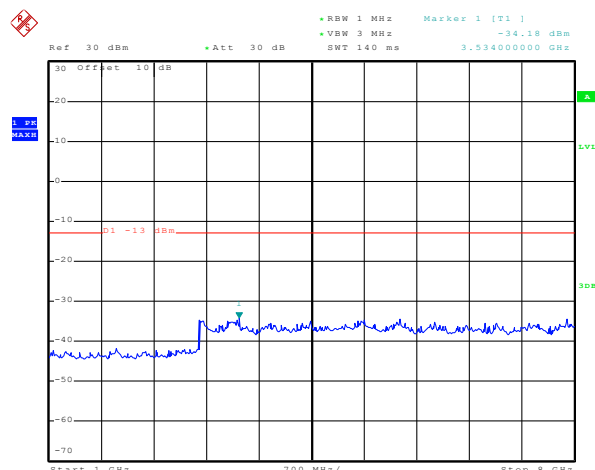
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:32:17

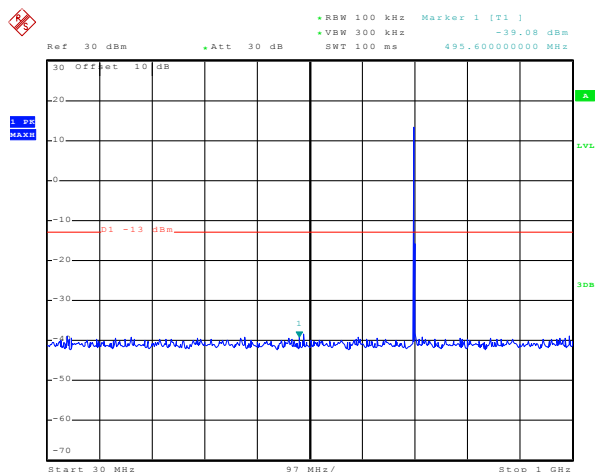
30MHz~1GHz



Date: 19.MAY.2015 10:38:44

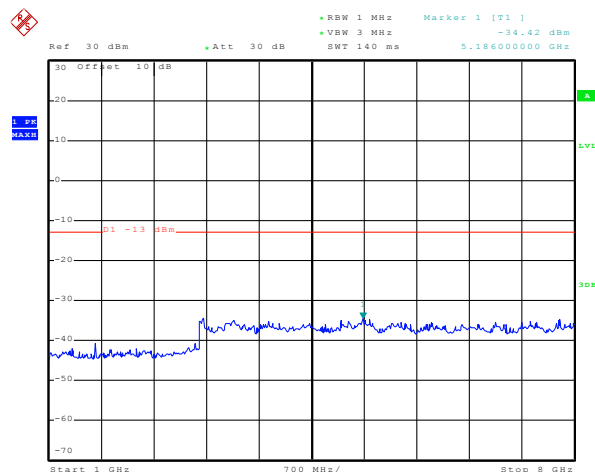
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:33:23

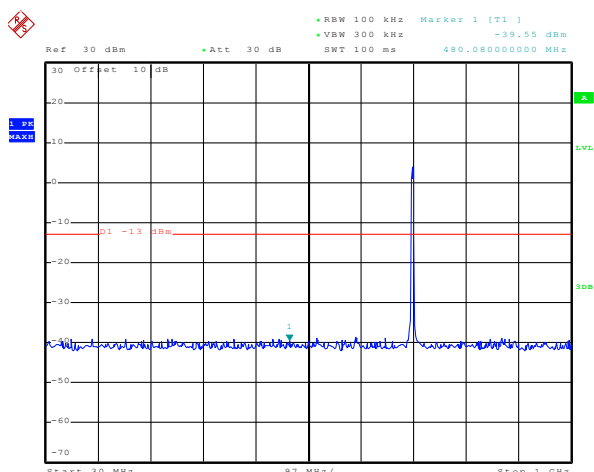
30MHz~1GHz



Date: 19.MAY.2015 10:36:29

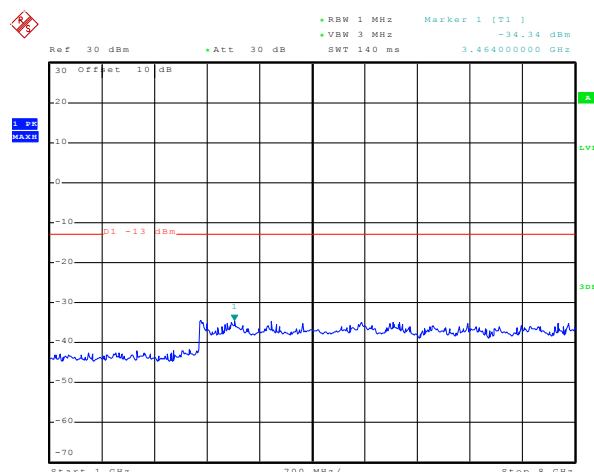
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:29:48

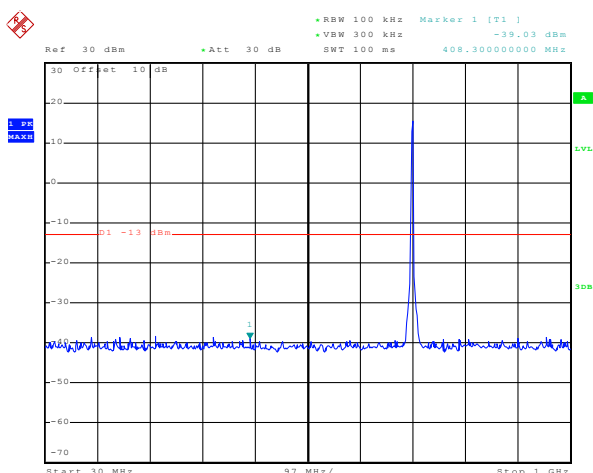
30MHz~1GHz



Date: 19.MAY.2015 10:44:05

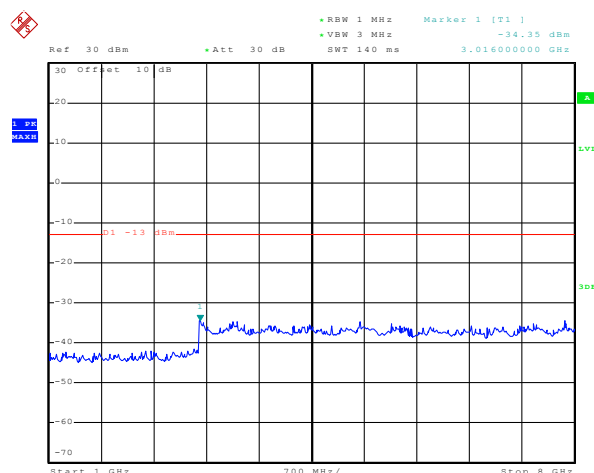
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:32:33

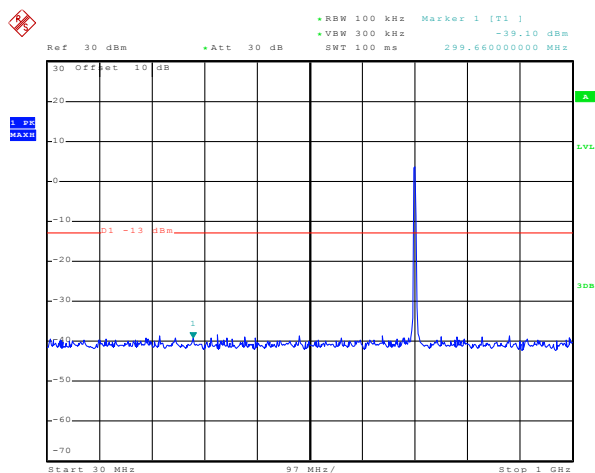
30MHz~1GHz



Date: 19.MAY.2015 10:37:33

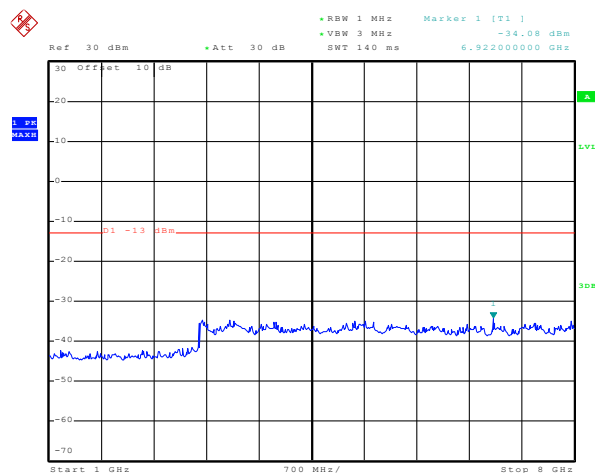
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:33:42

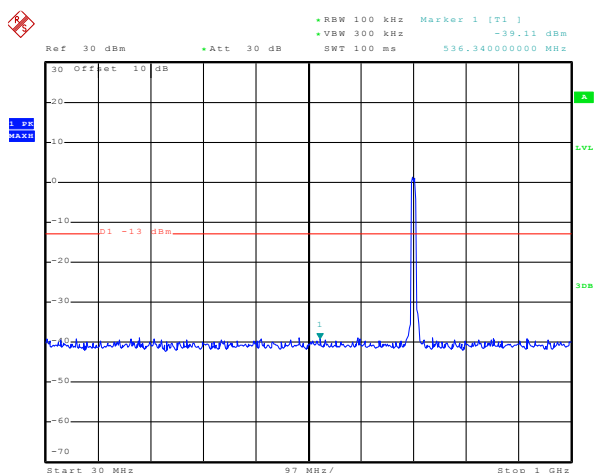
30MHz~1GHz



Date: 19.MAY.2015 10:36:41

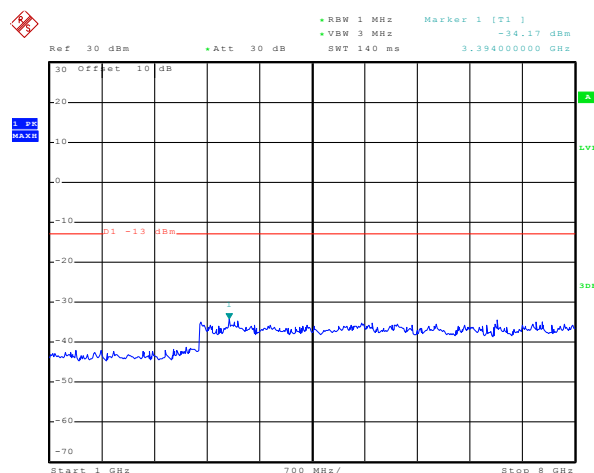
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 19.MAY.2015 10:30:04

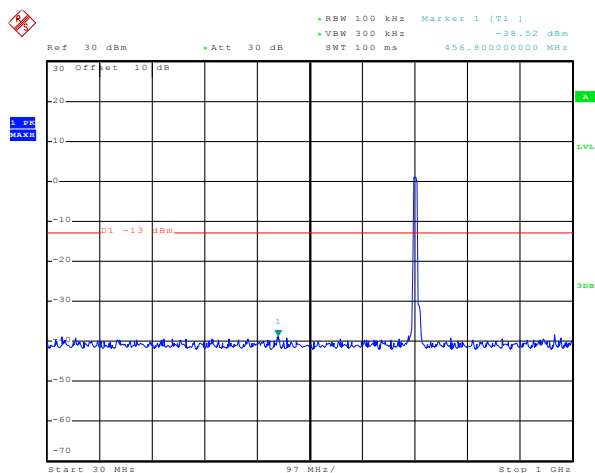
30MHz~1GHz



Date: 19.MAY.2015 10:44:18

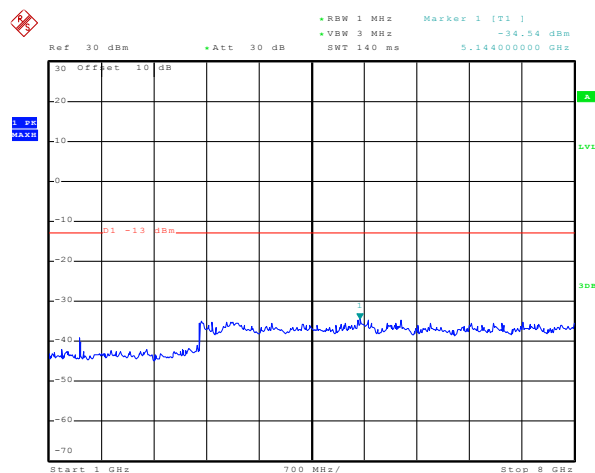
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 19.MAY.2015 10:32:47

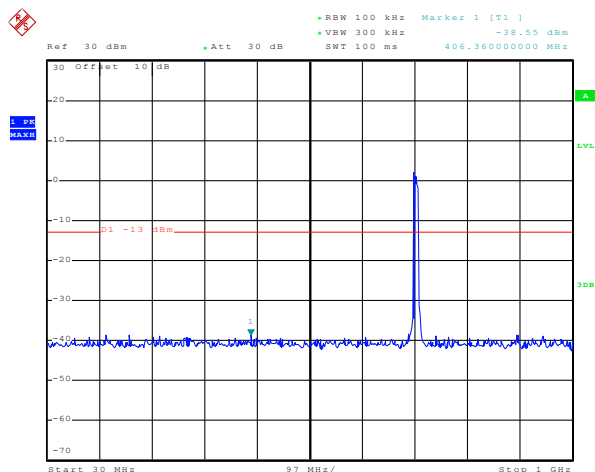
30MHz~1GHz



Date: 19.MAY.2015 10:37:13

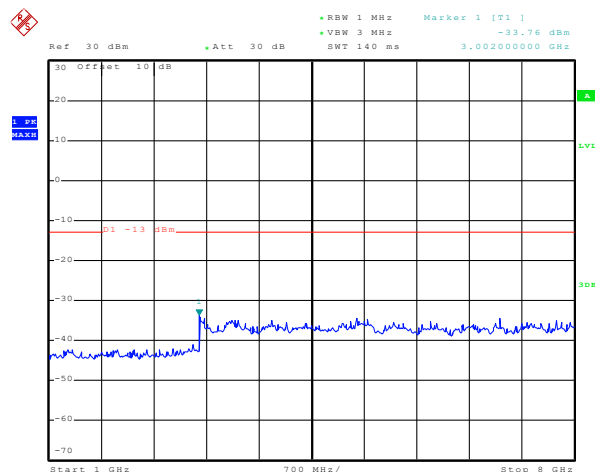
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 19.MAY.2015 10:33:09

30MHz~1GHz



Date: 19.MAY.2015 10:36:53

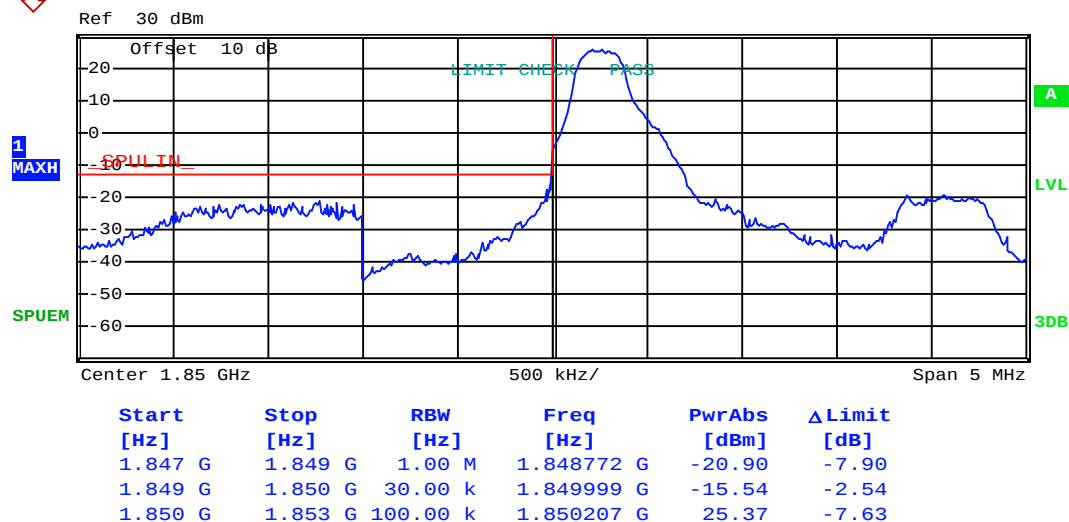
1GHz~8GHz

Band edge emission:

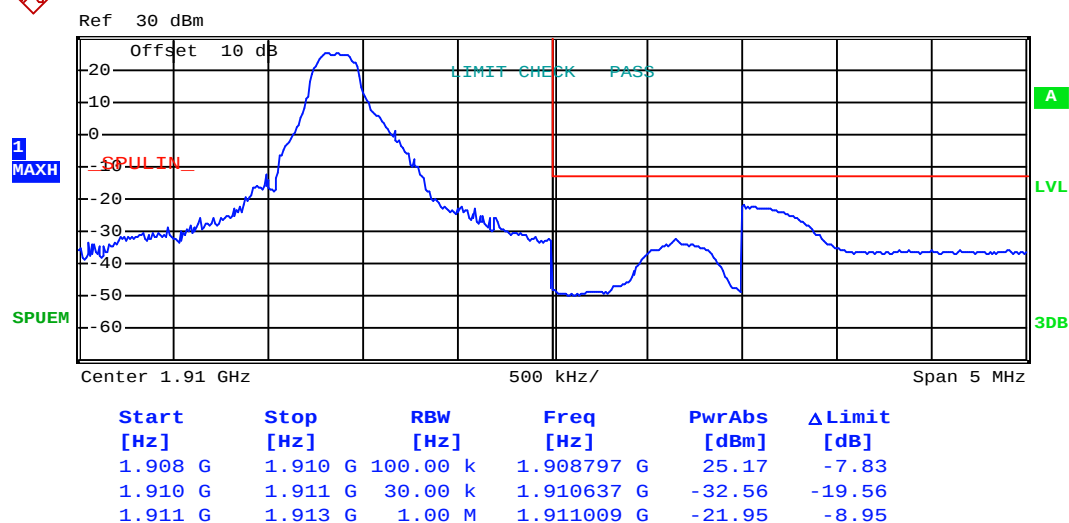
LTE band 2 part:

1.4MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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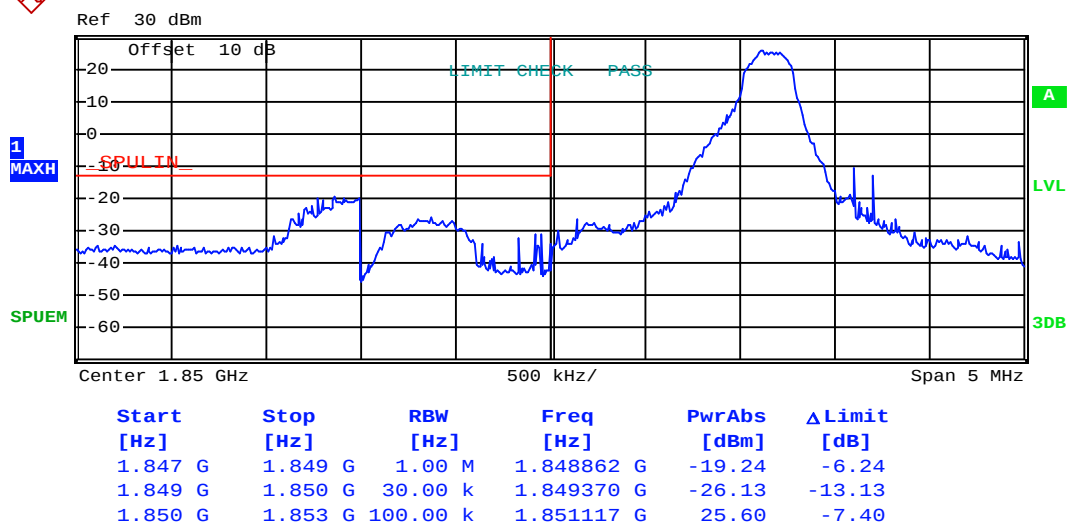
Lowest channel



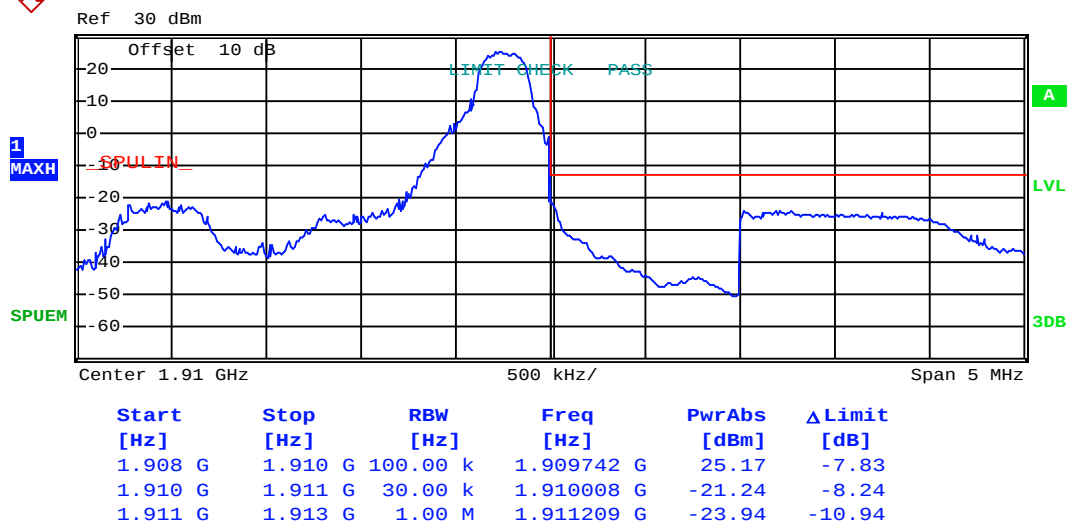
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 5)



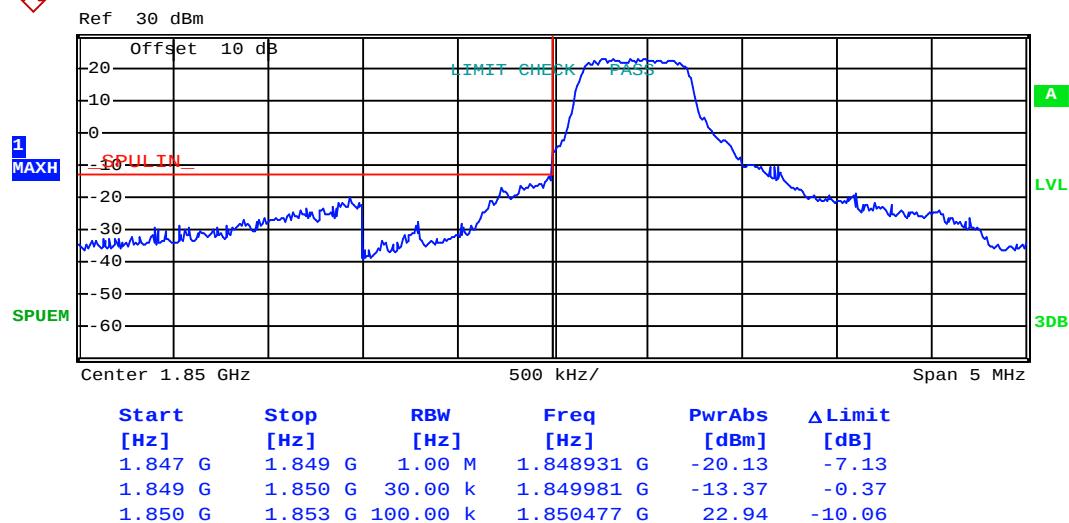
Lowest channel



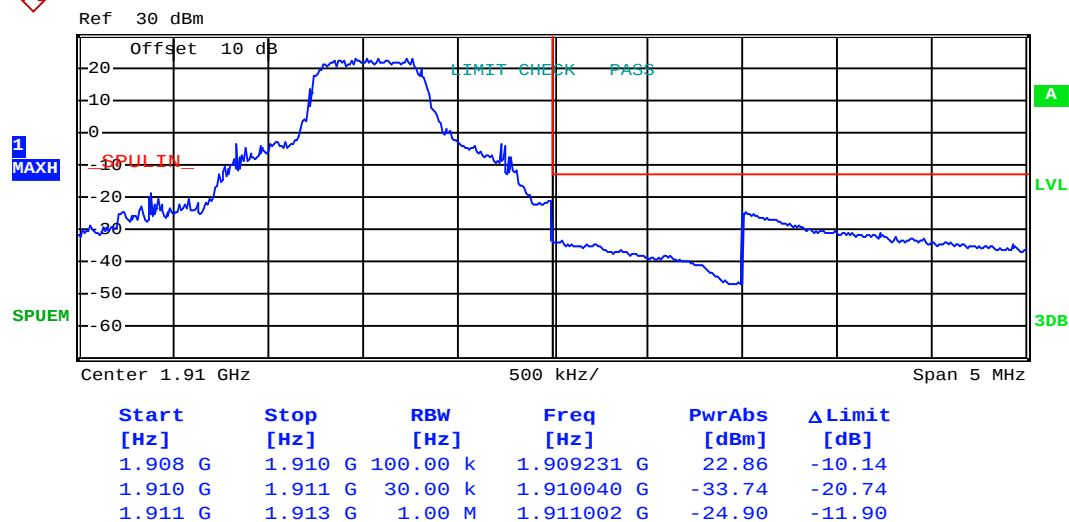
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 3 & RB Offset 0)



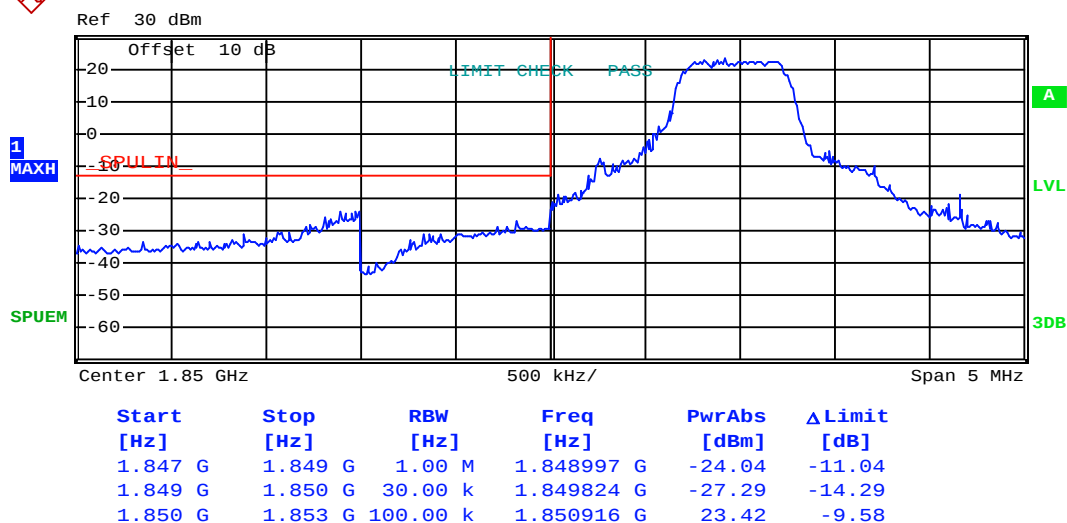
Lowest channel



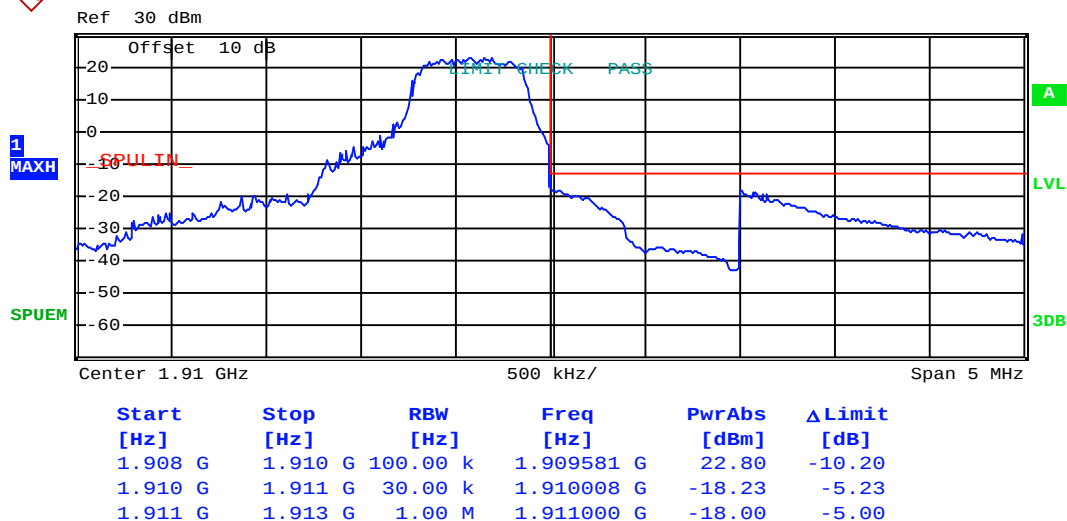
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 3 & RB Offset 2)



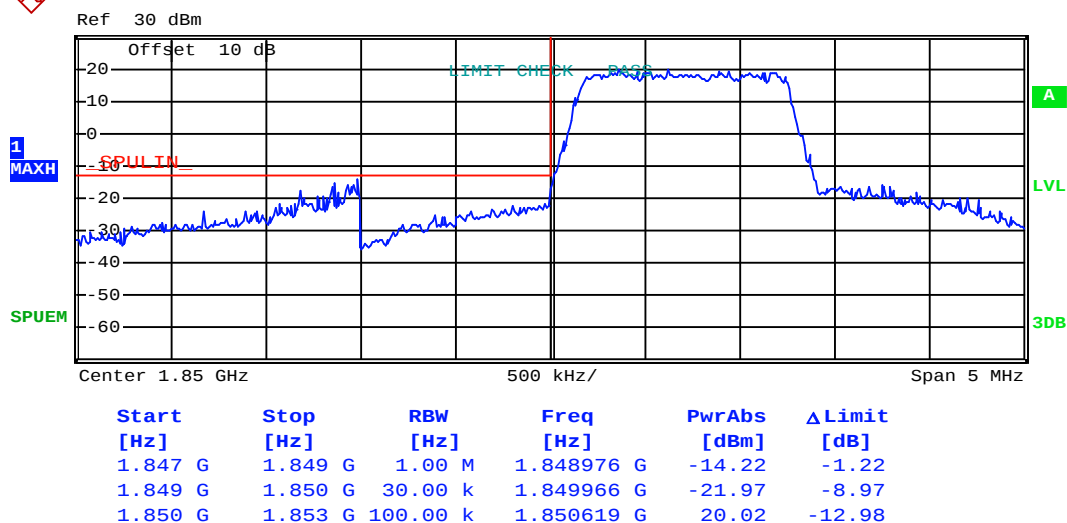
Lowest channel



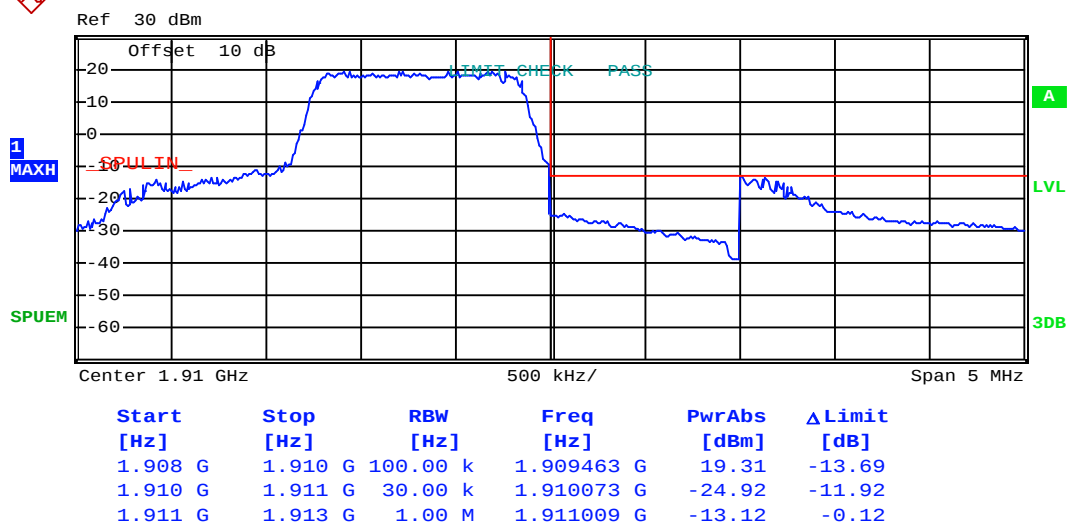
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 6 & RB Offset 0)



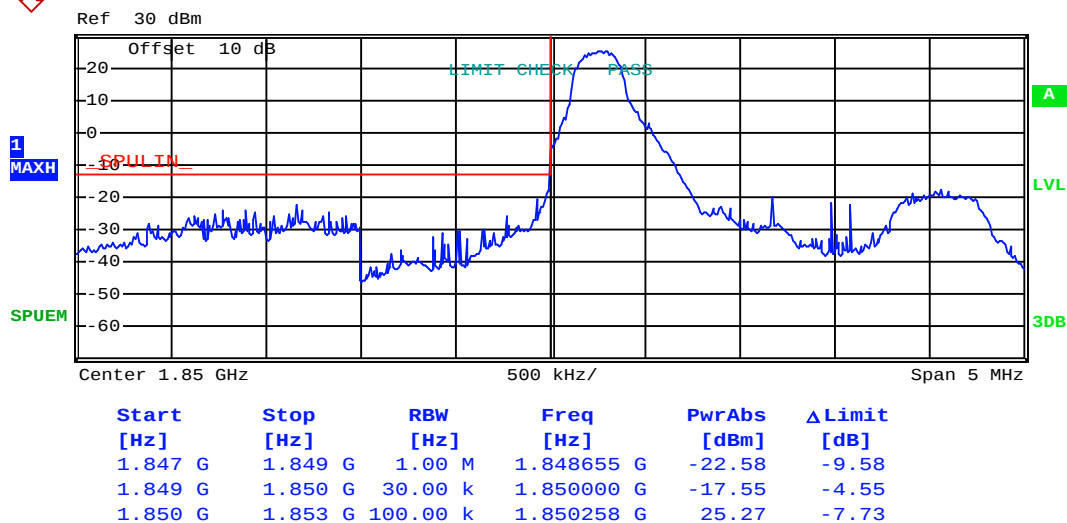
Lowest channel



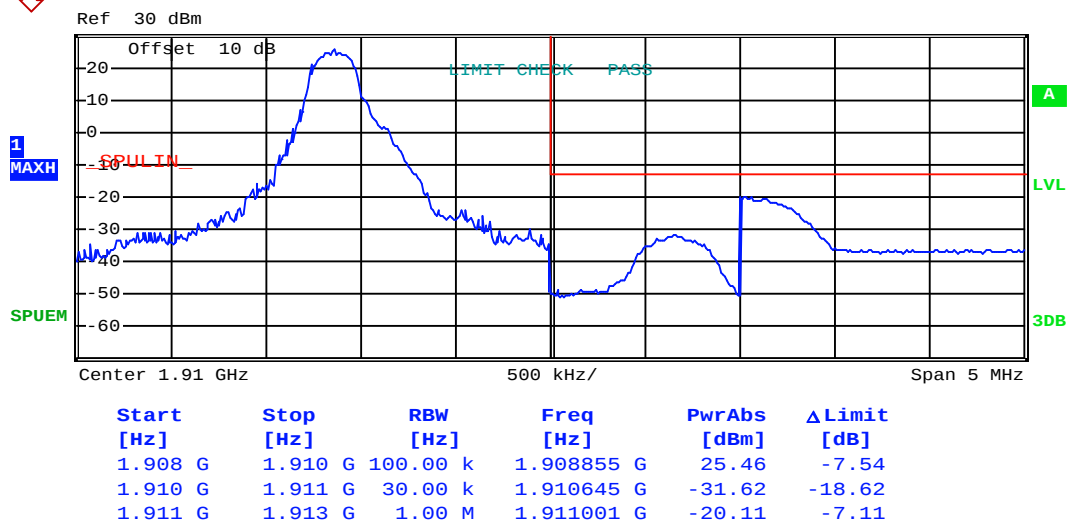
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



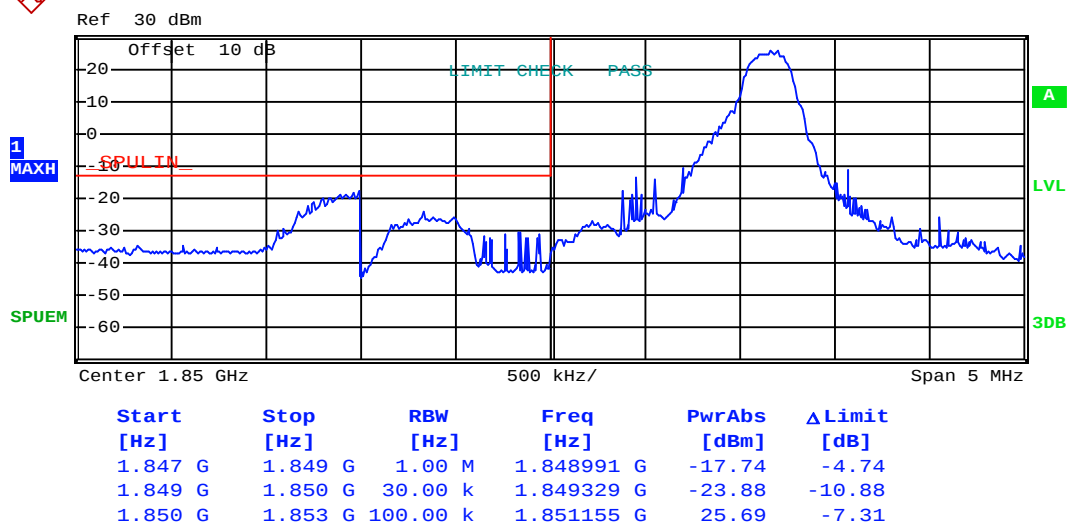
Lowest channel



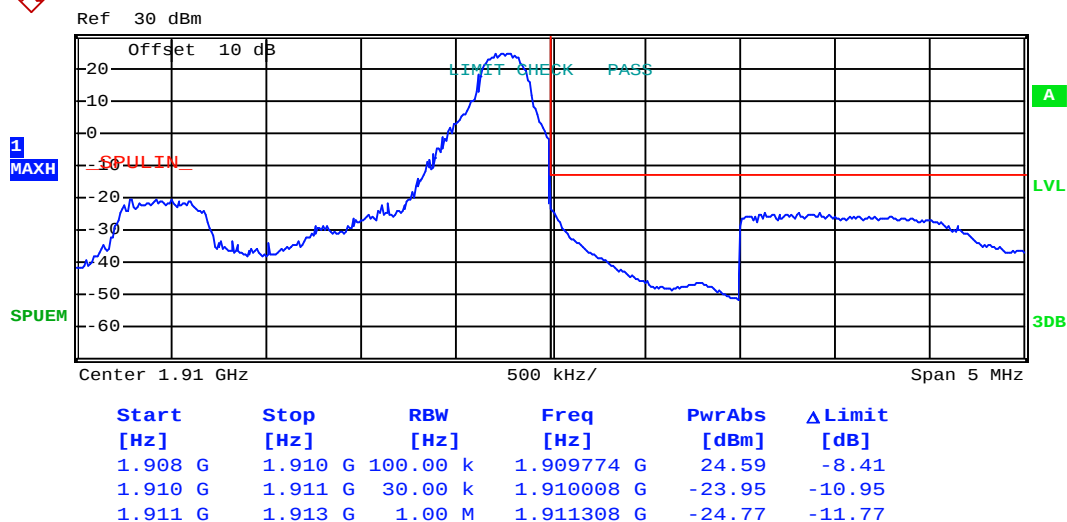
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 5)



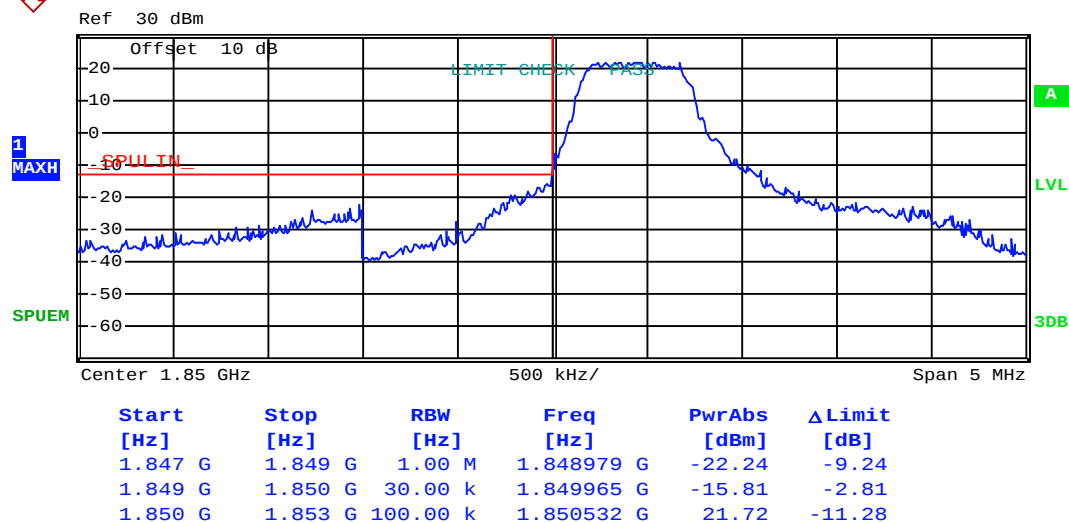
Lowest channel



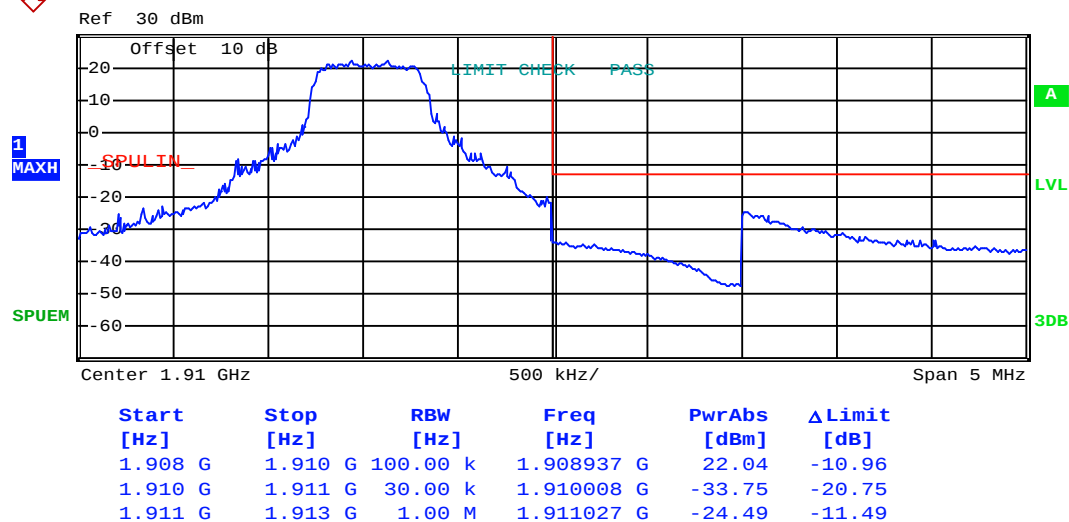
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 3 & RB Offset 0)

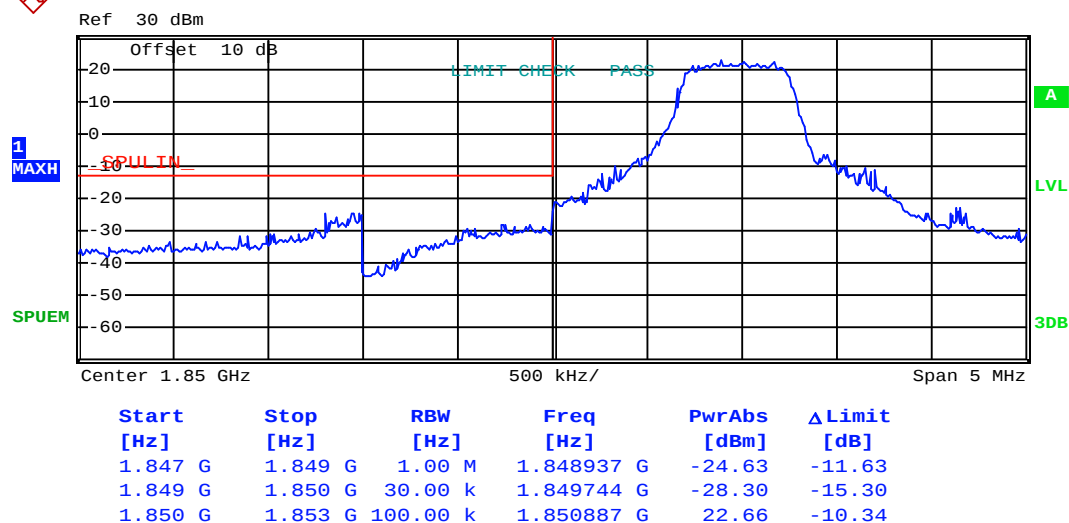


Lowest channel

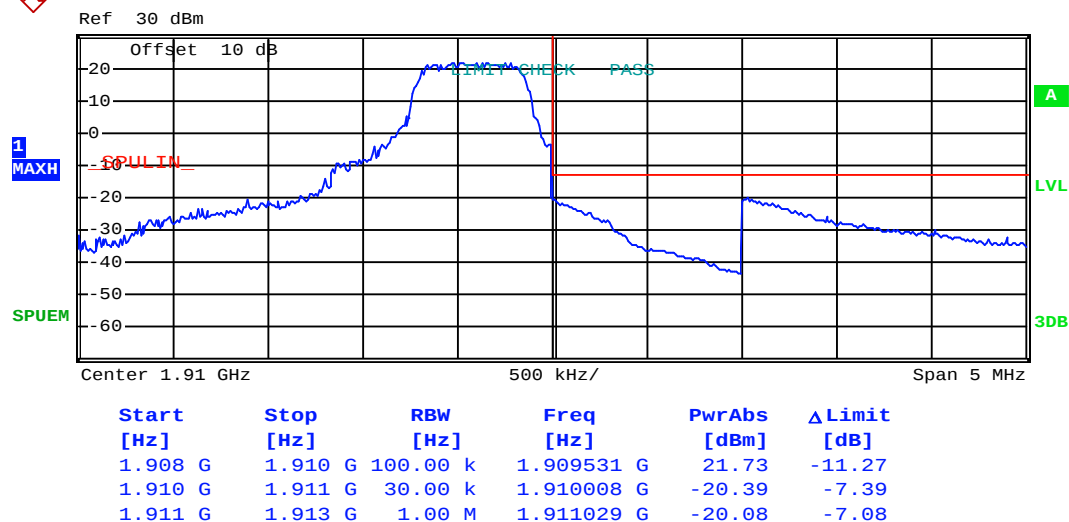


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 3 & RB Offset 2)
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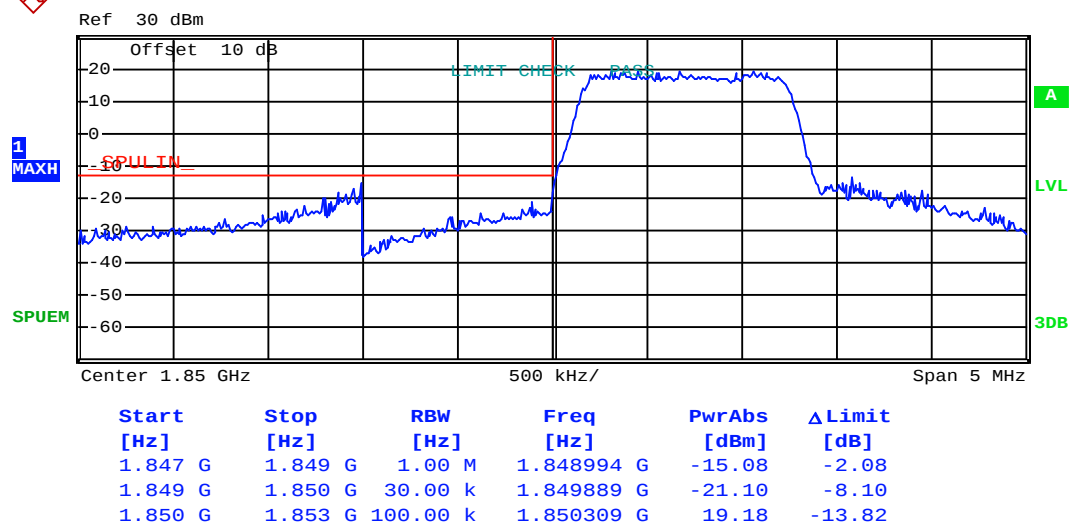
Lowest channel



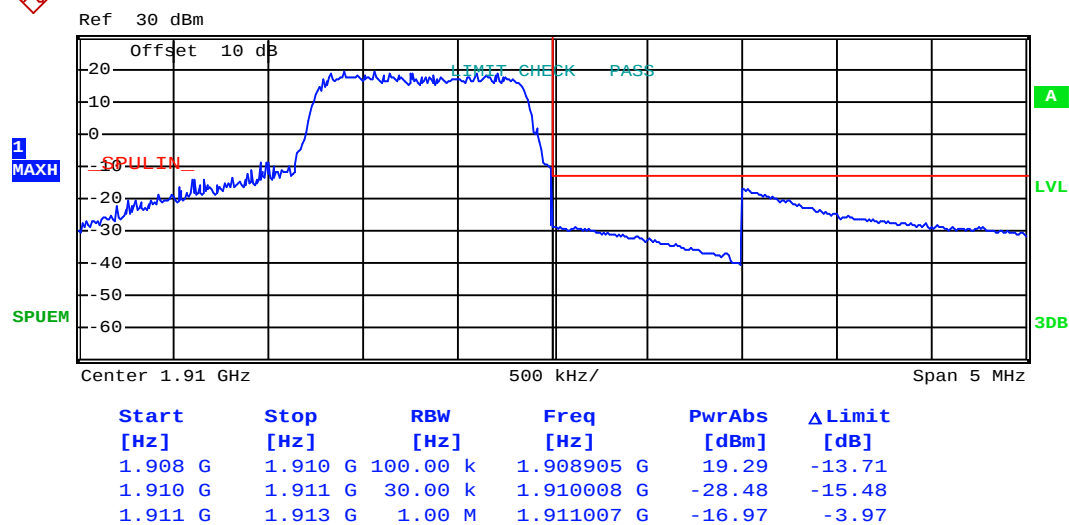
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 6 & RB Offset 0)



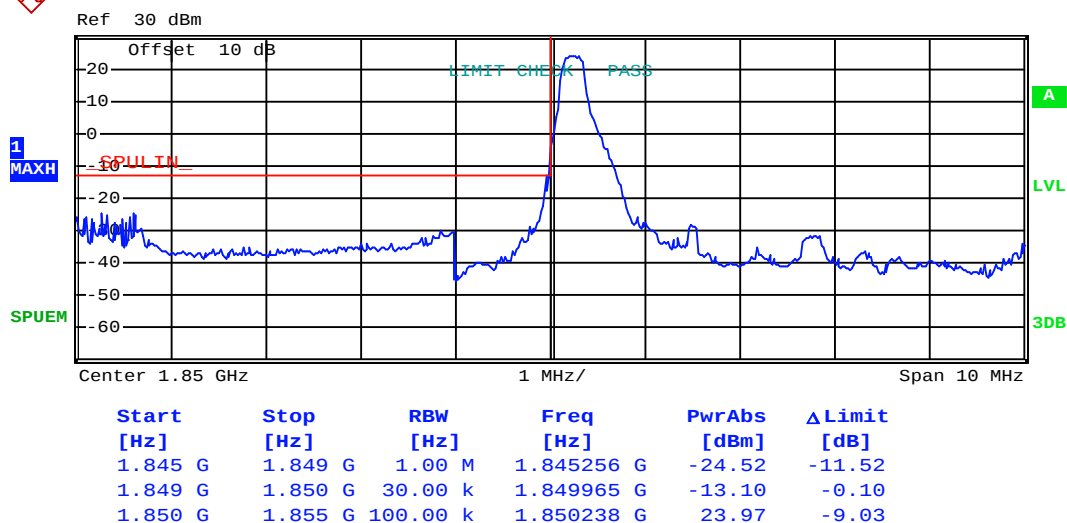
Lowest channel



Highest channel

3MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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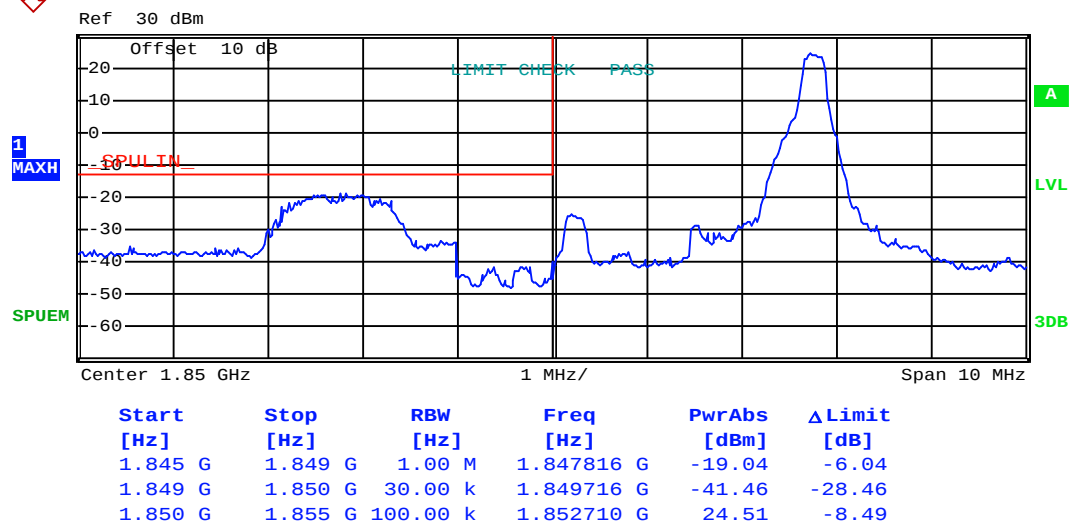
Lowest channel



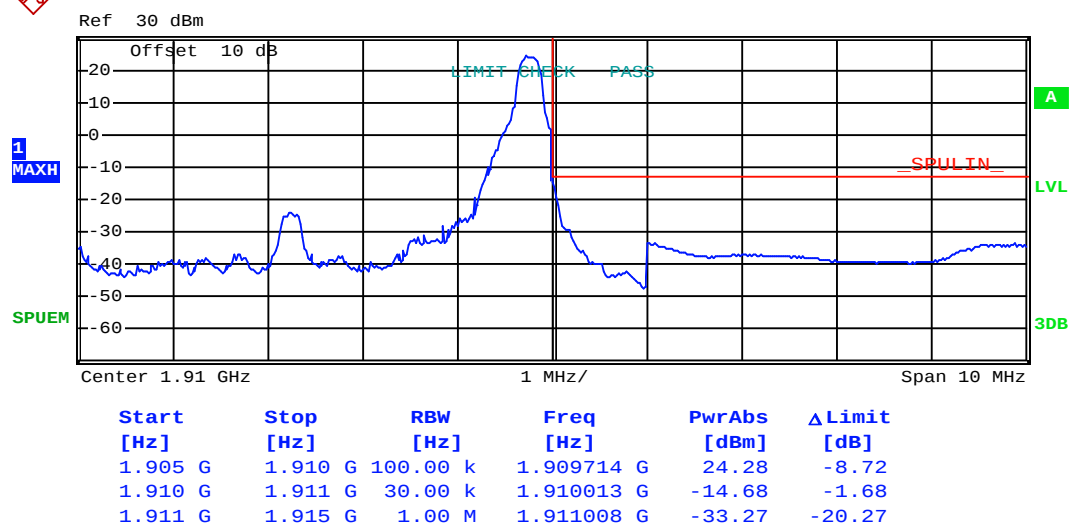
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 14)

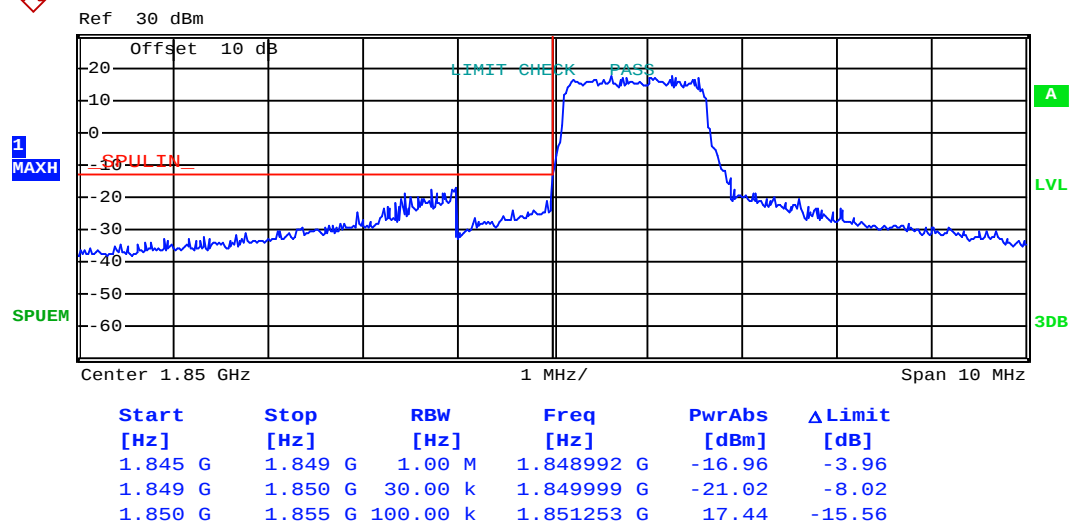


Lowest channel

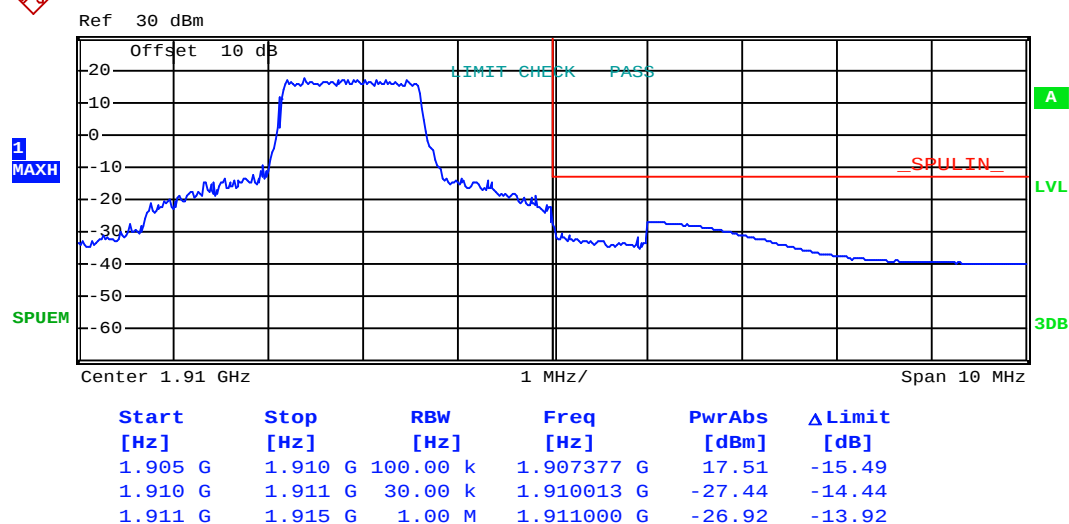


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 8 & RB Offset 0)
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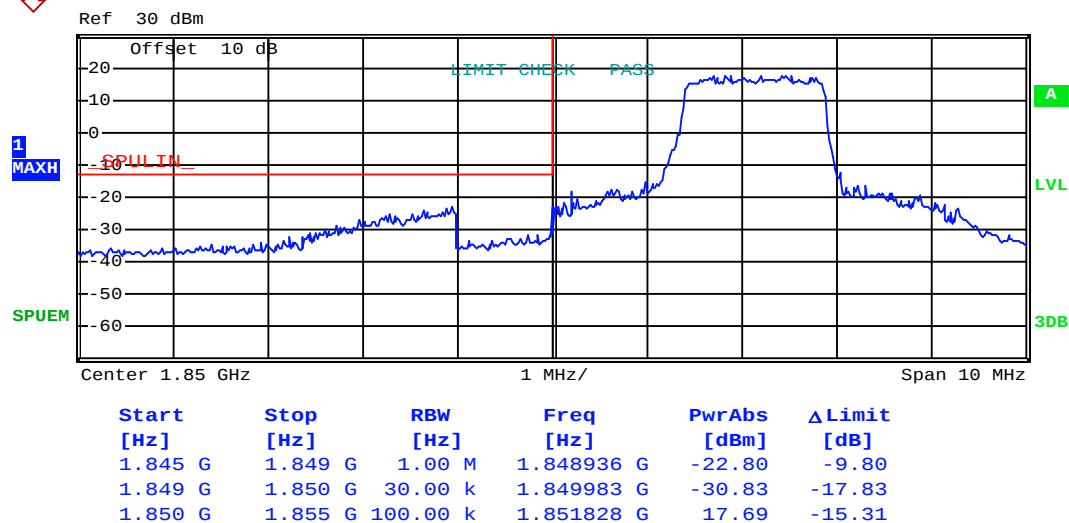


Lowest channel

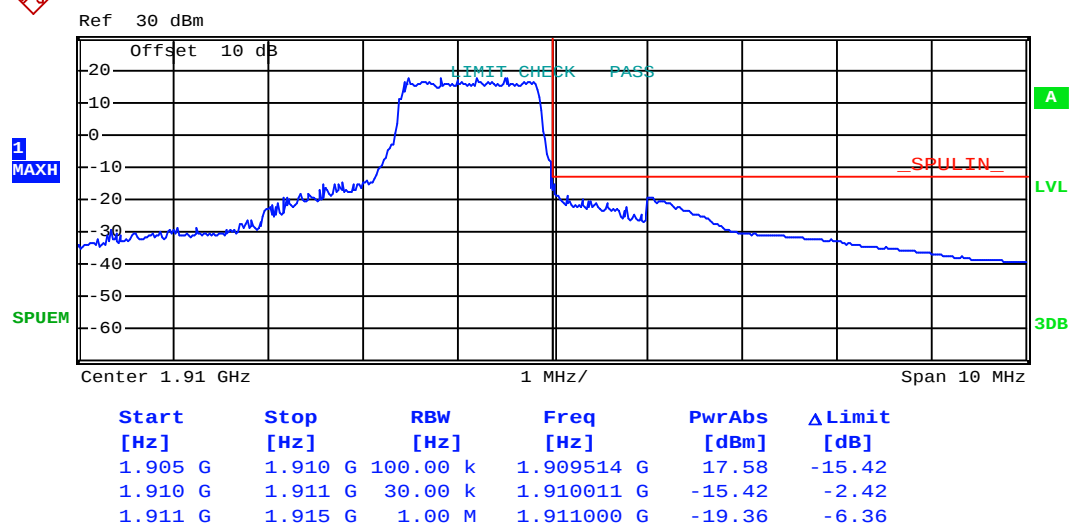


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 8 & RB Offset 7)
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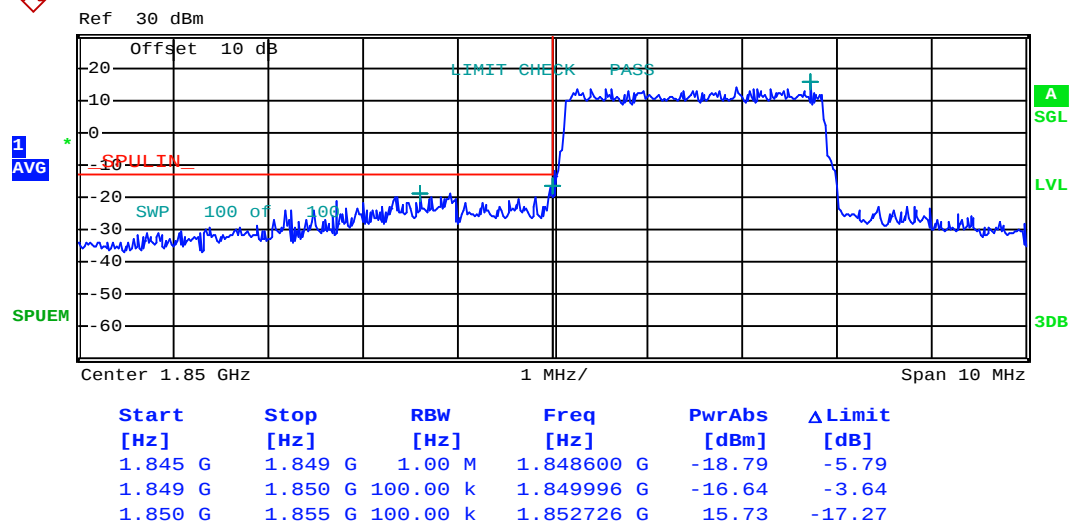
Lowest channel



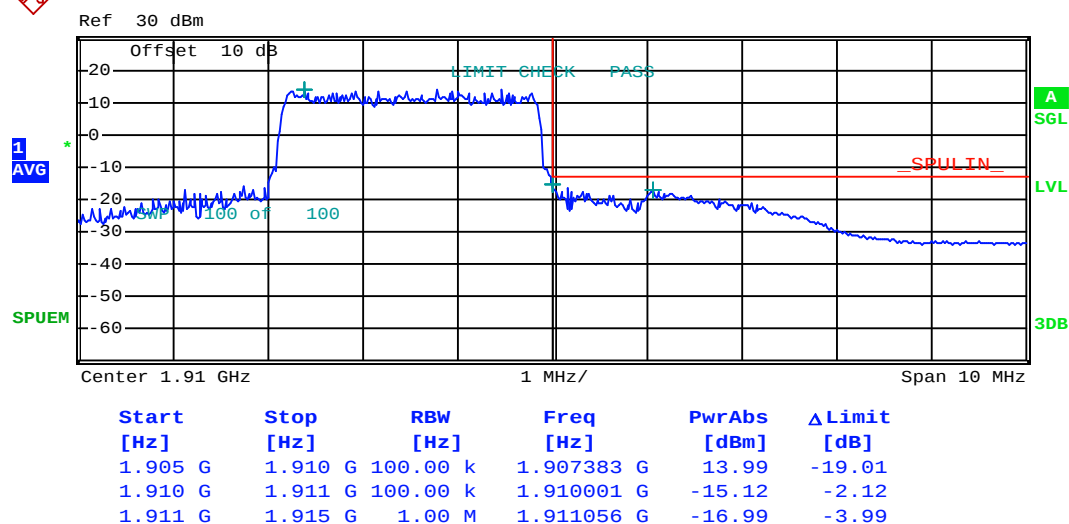
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 15 & RB Offset 0)



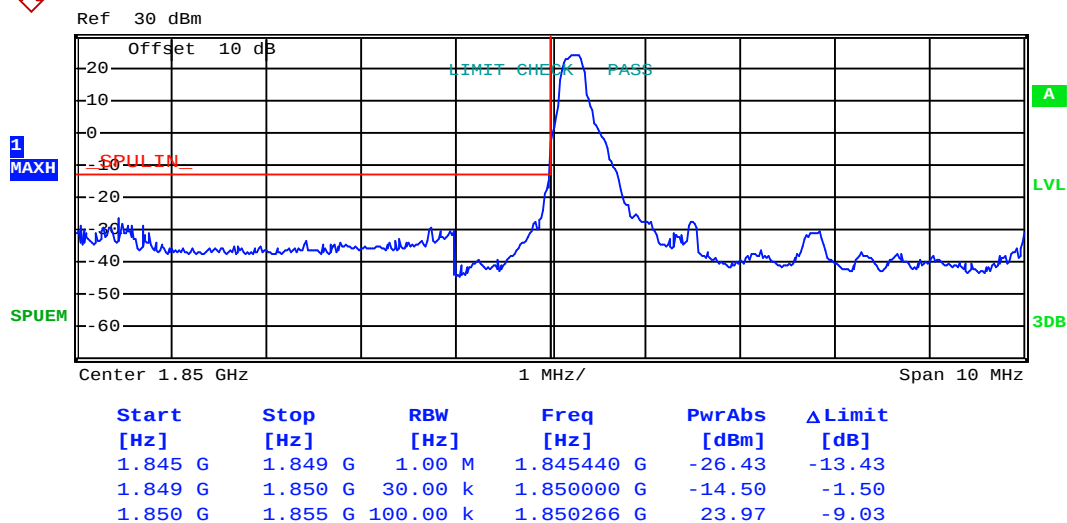
Lowest channel



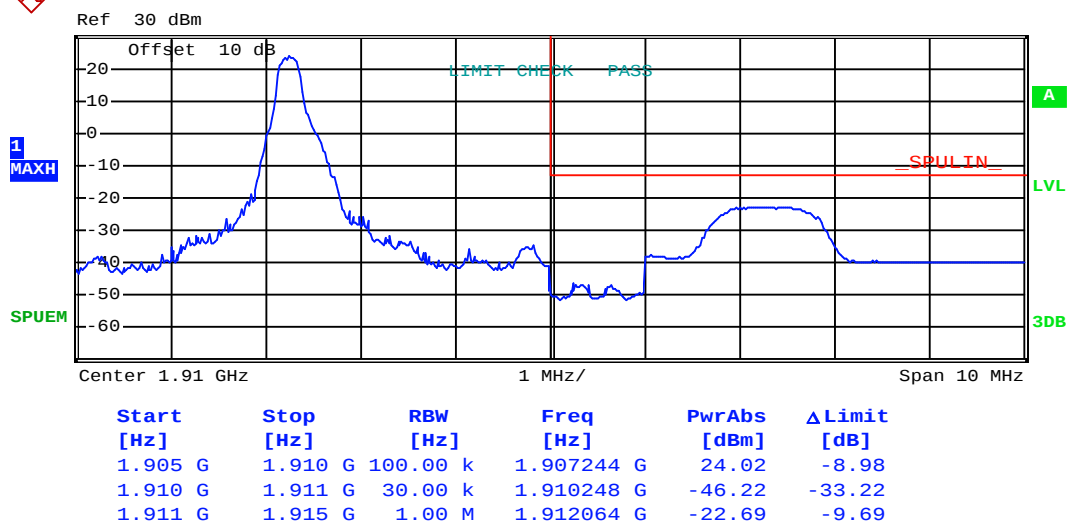
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 0)



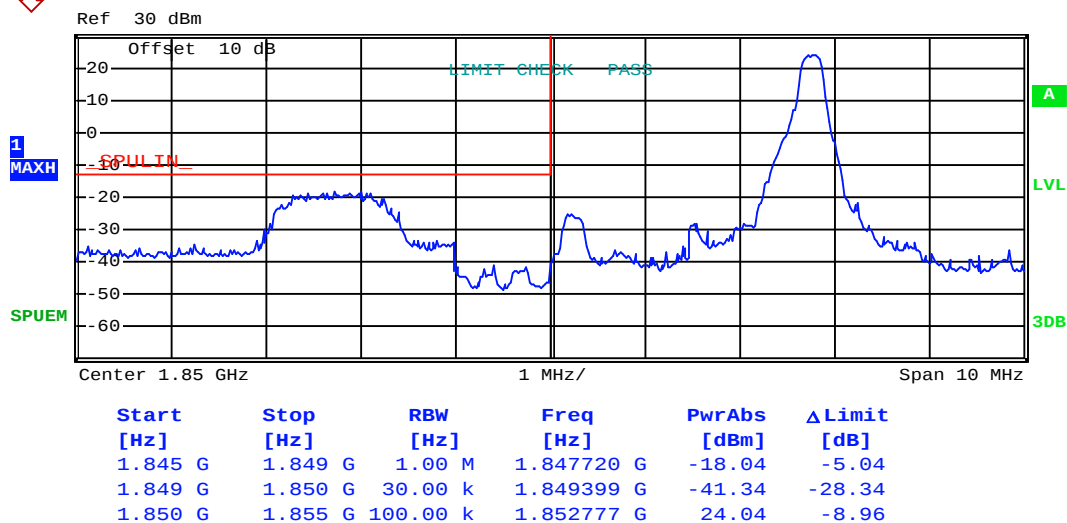
Lowest channel



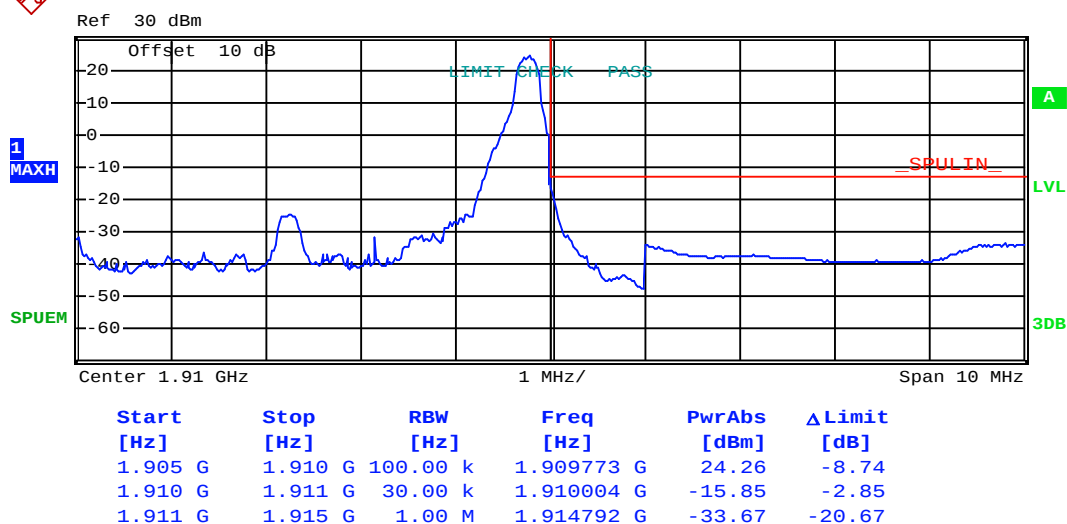
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 14)

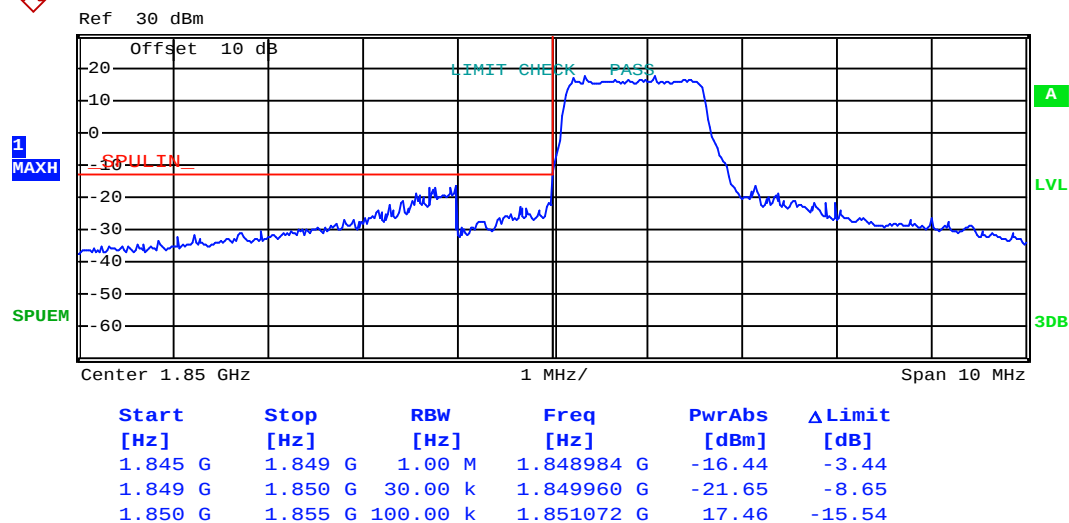


Lowest channel

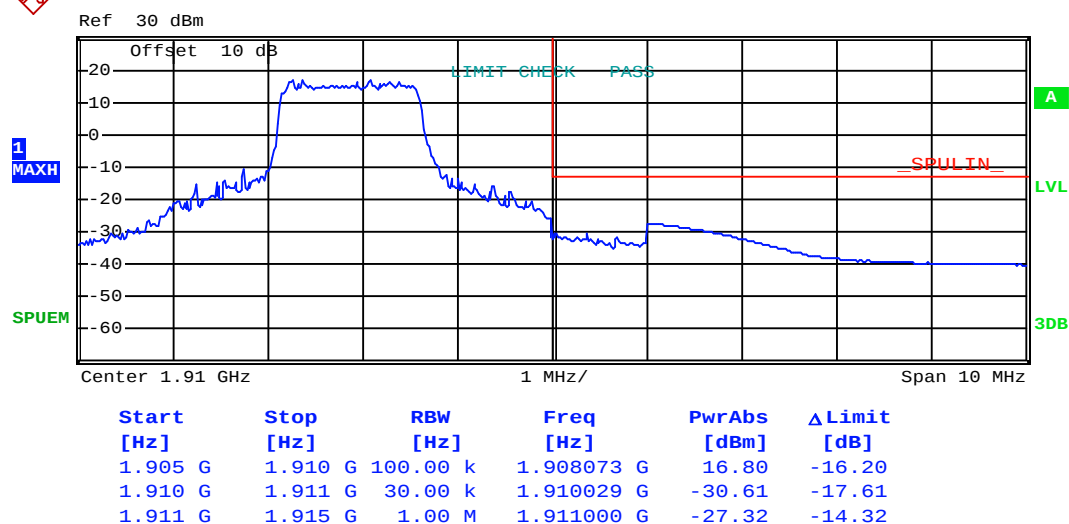


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 8 & RB Offset 0)
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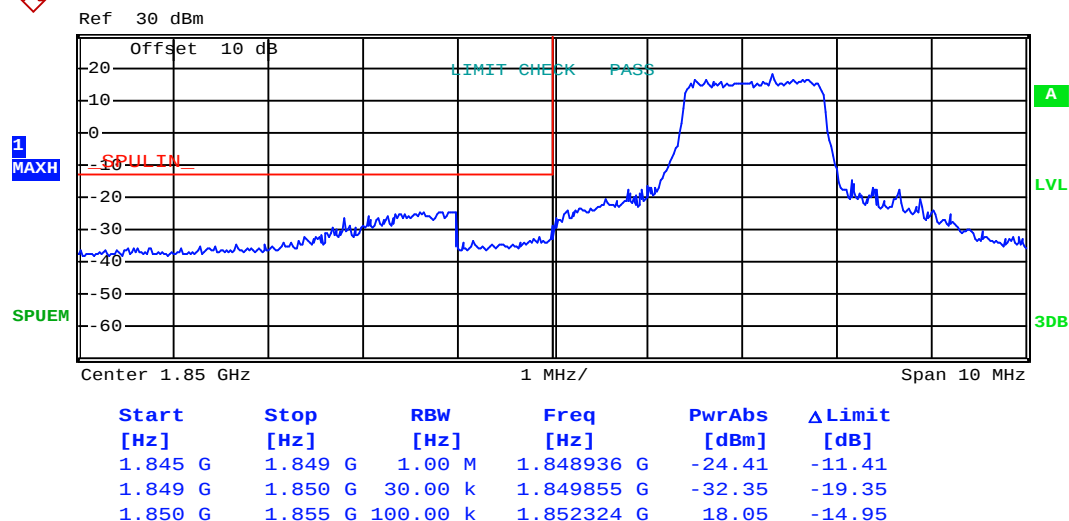


Lowest channel

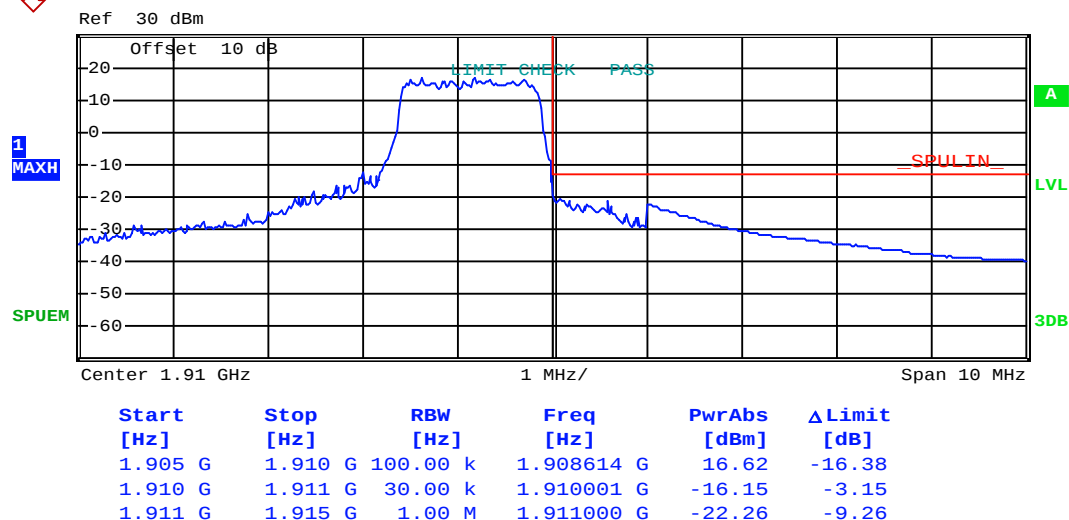


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 8 & RB Offset 7)
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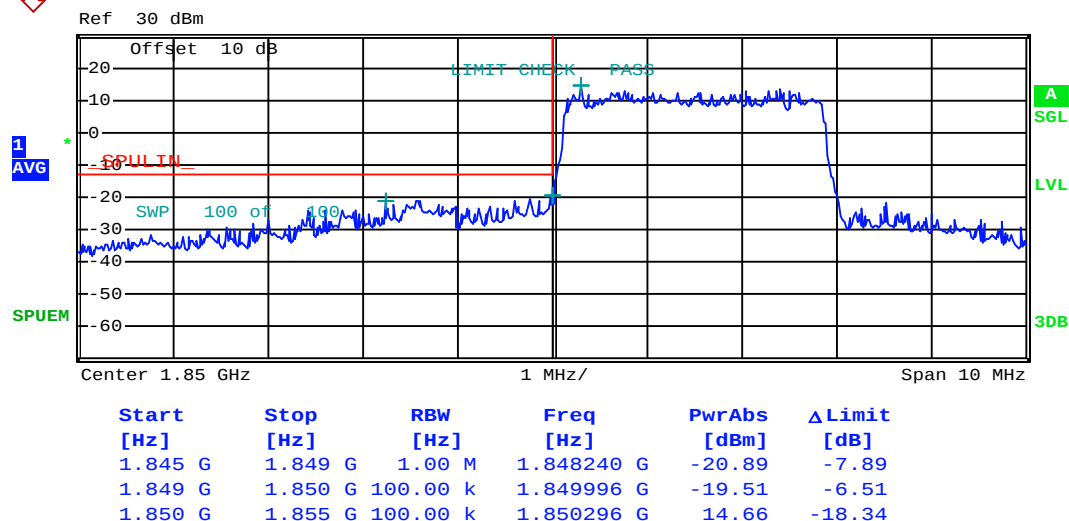
Lowest channel



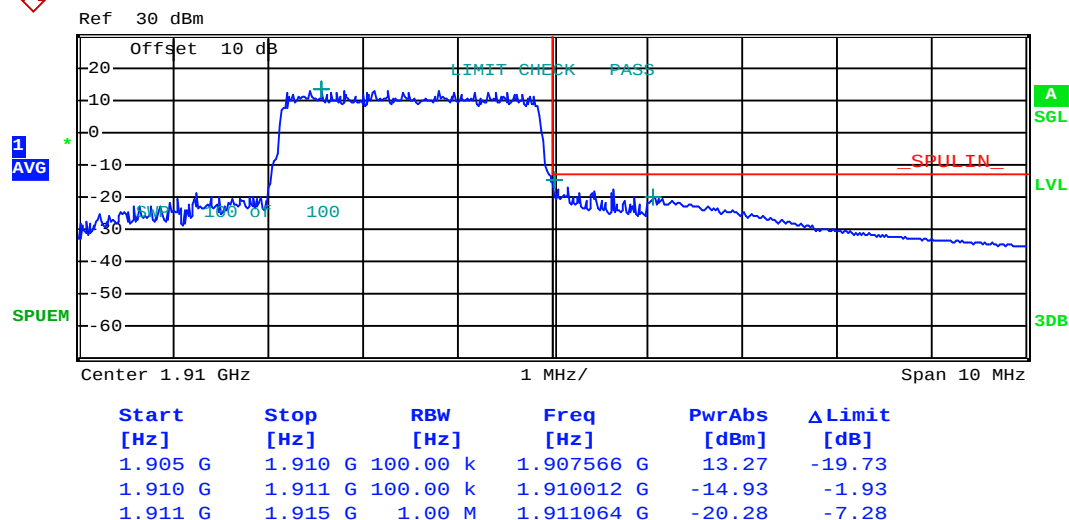
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 15 & RB Offset 0)



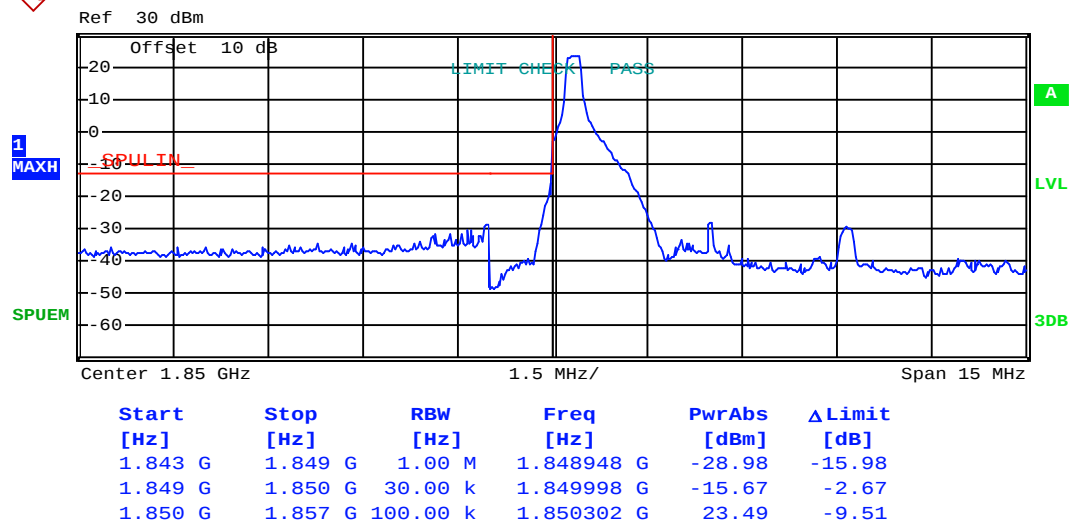
Lowest channel



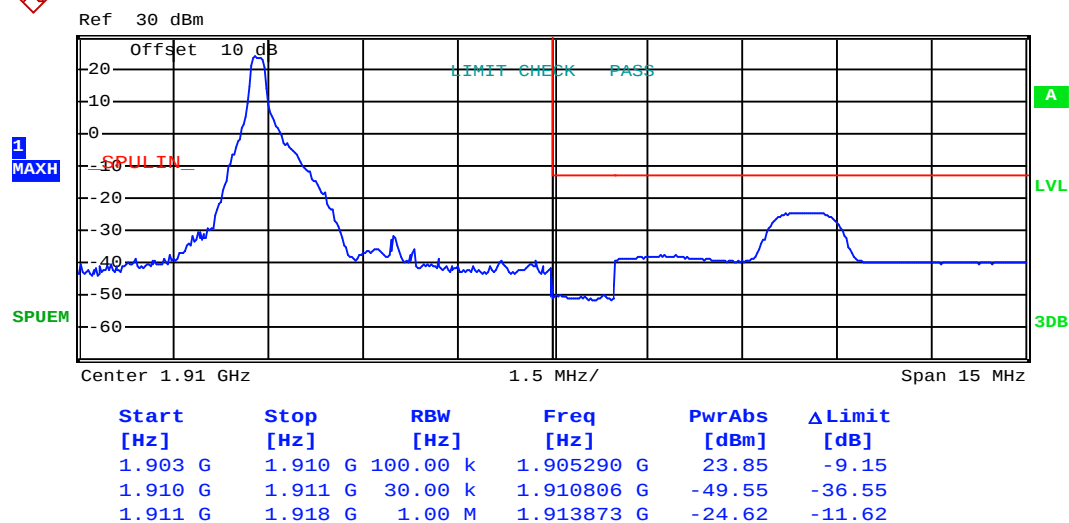
Highest channel

5MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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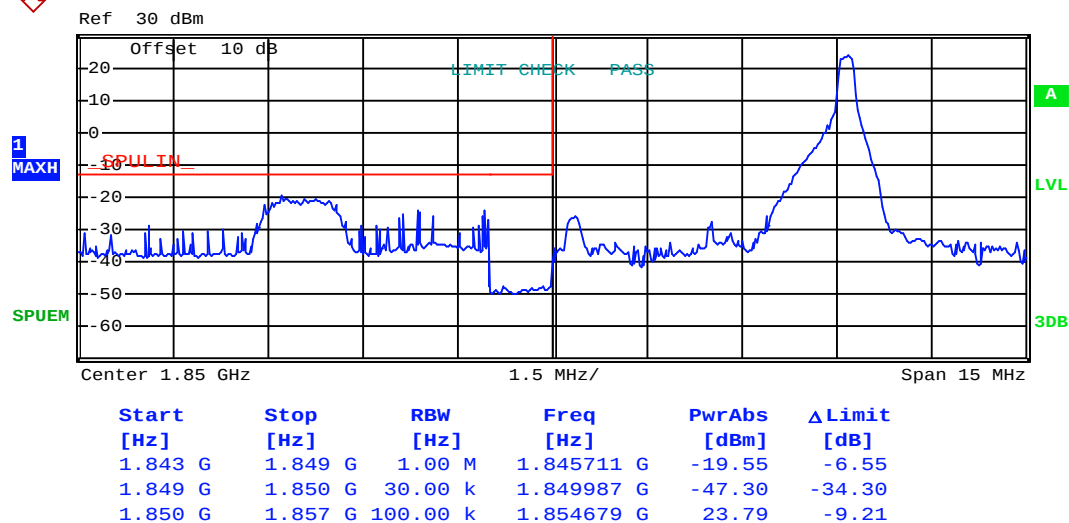
Lowest channel



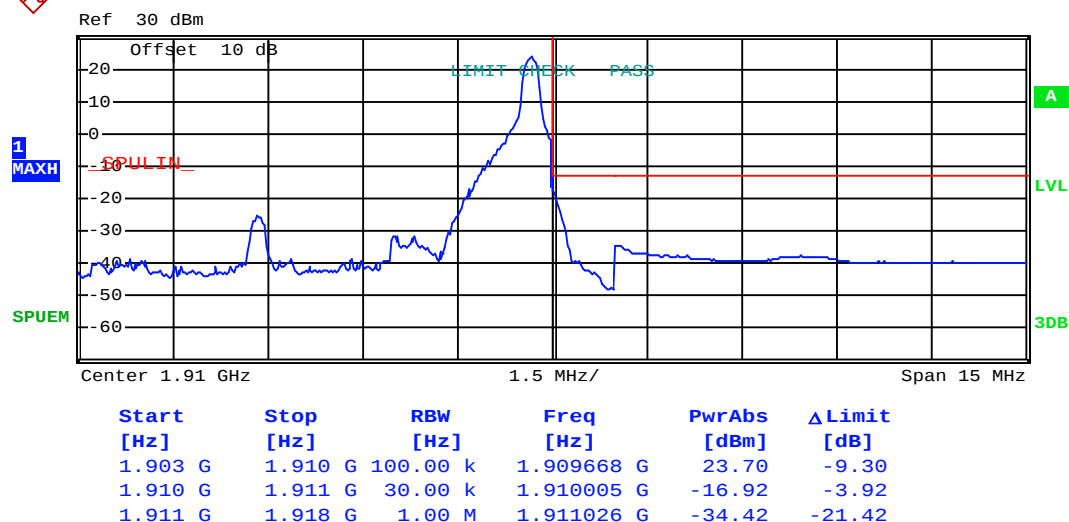
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 24)

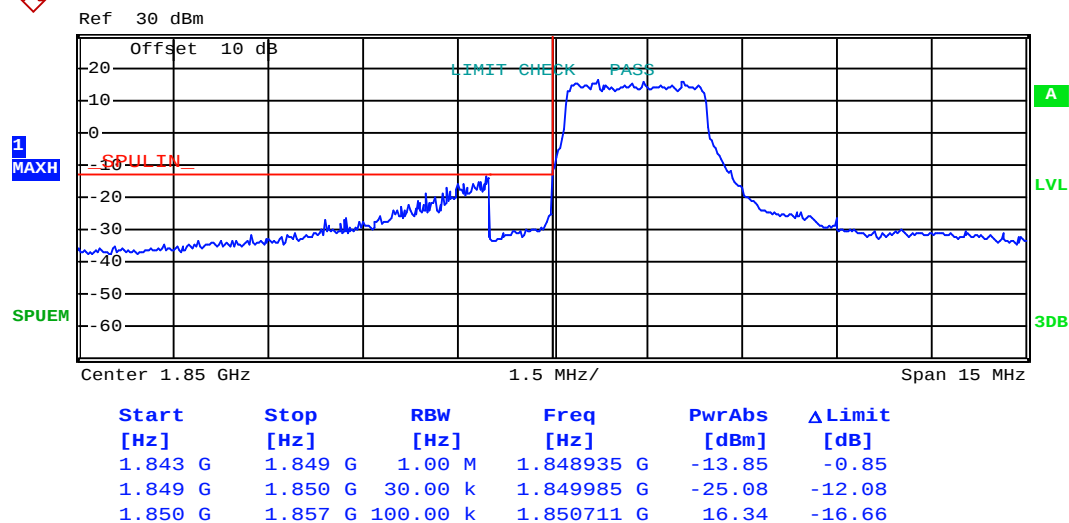


Lowest channel

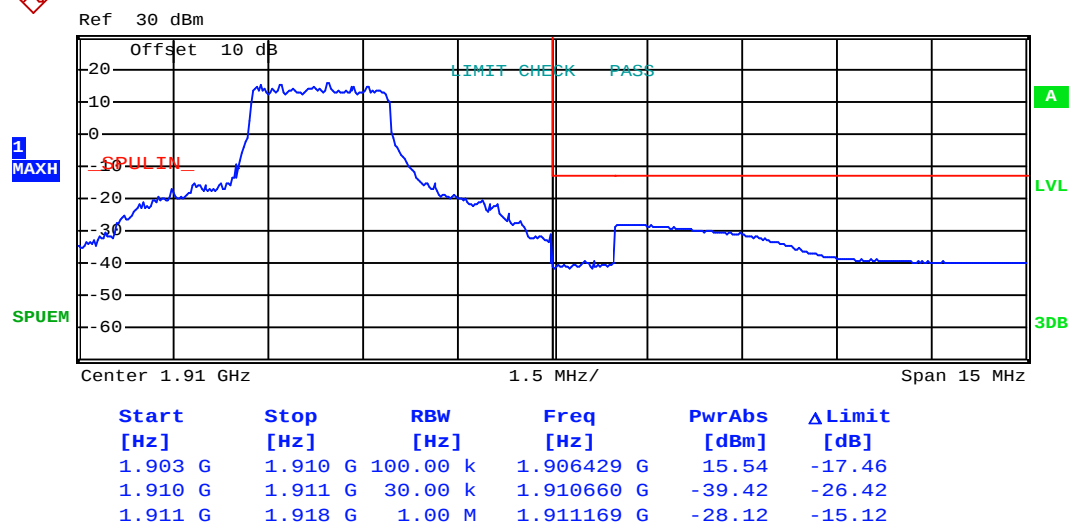


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 12 & RB Offset 0)
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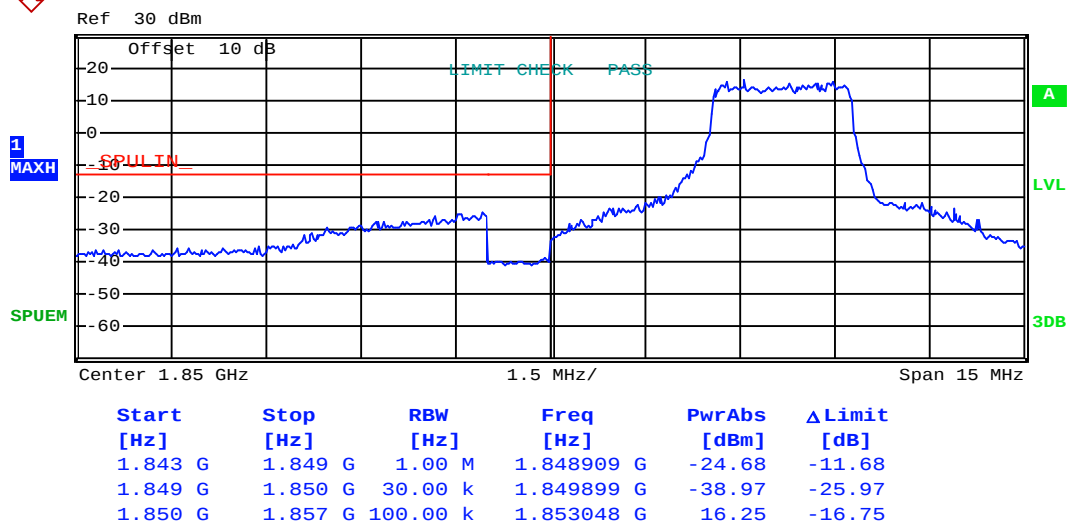
Lowest channel



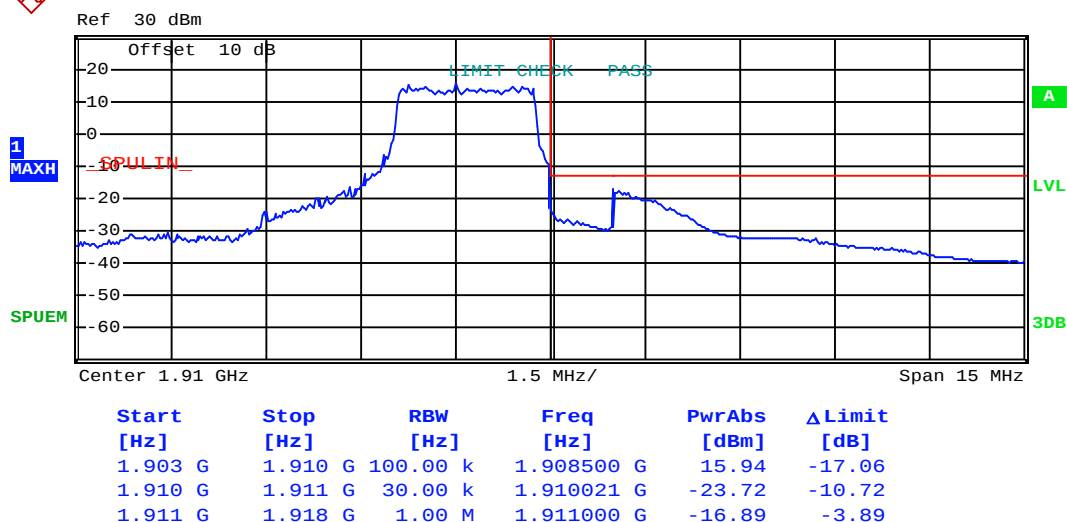
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 12 & RB Offset 11)

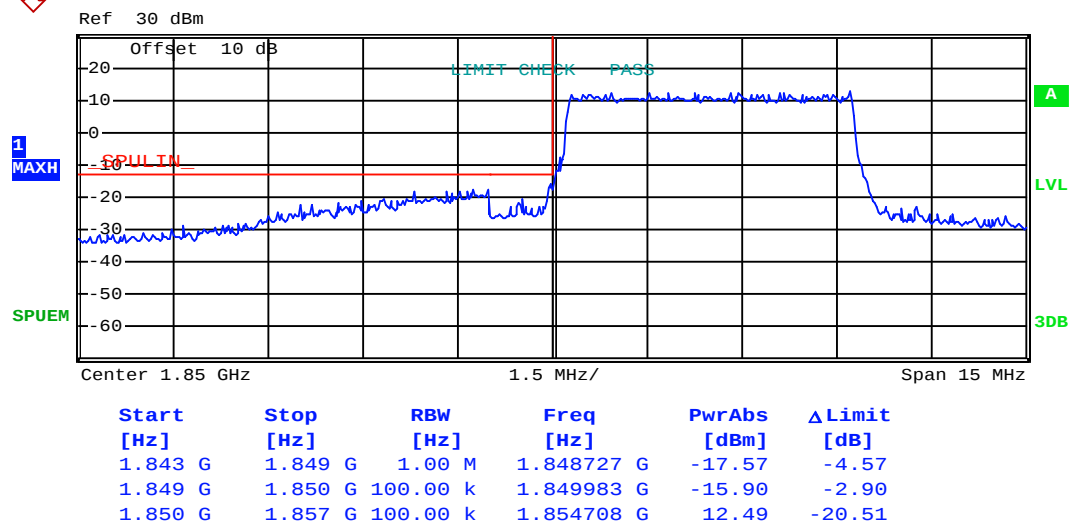


Lowest channel

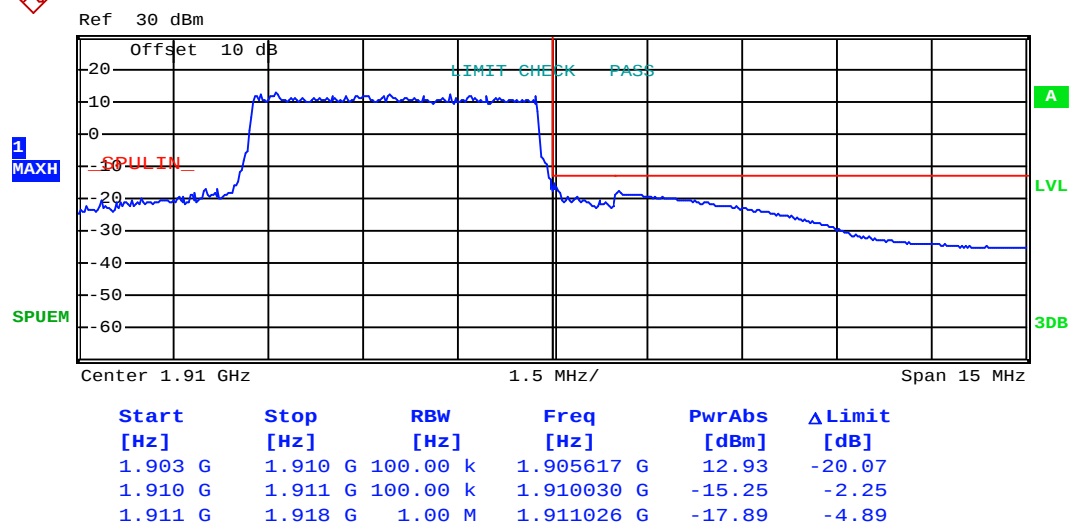


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 25 & RB Offset 0)
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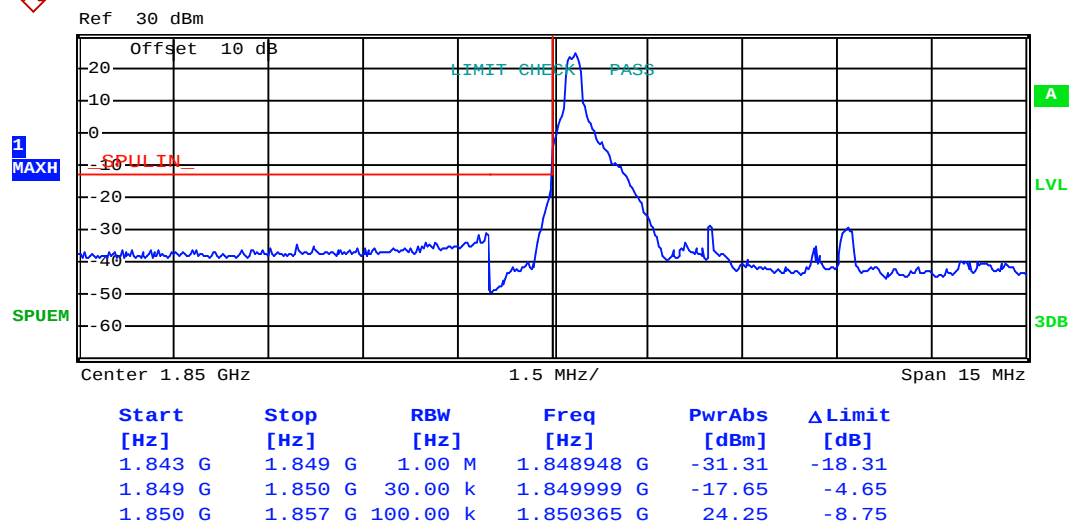


Lowest channel

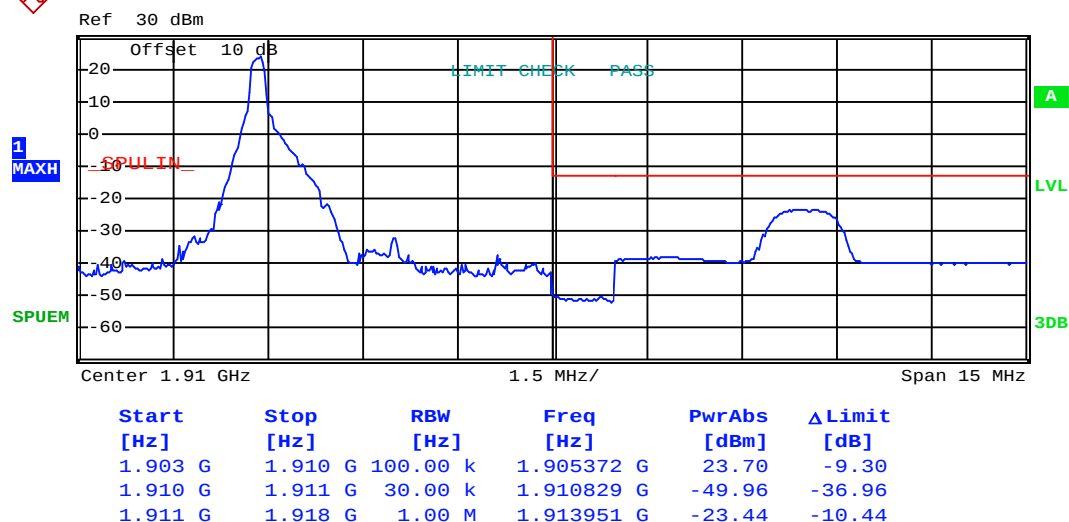


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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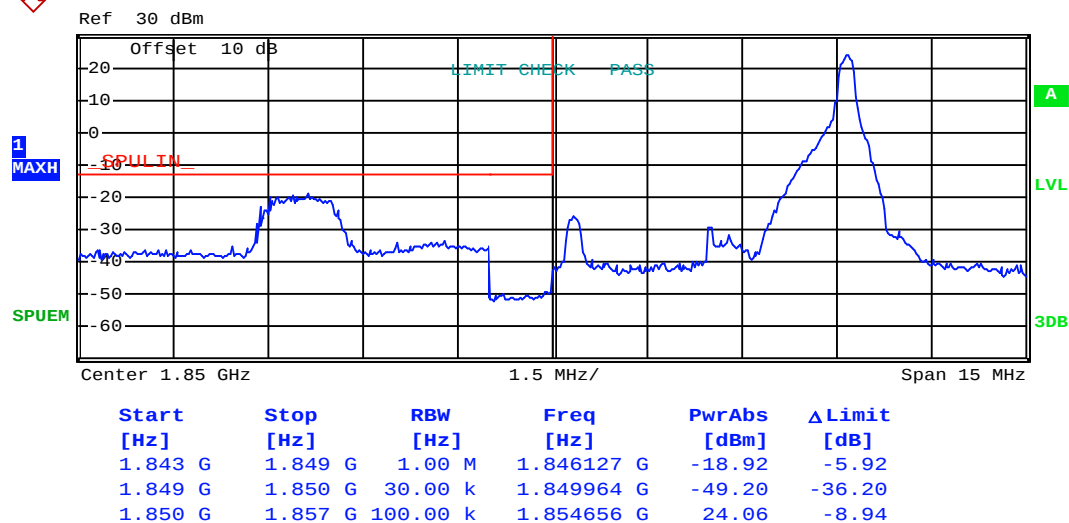
Lowest channel



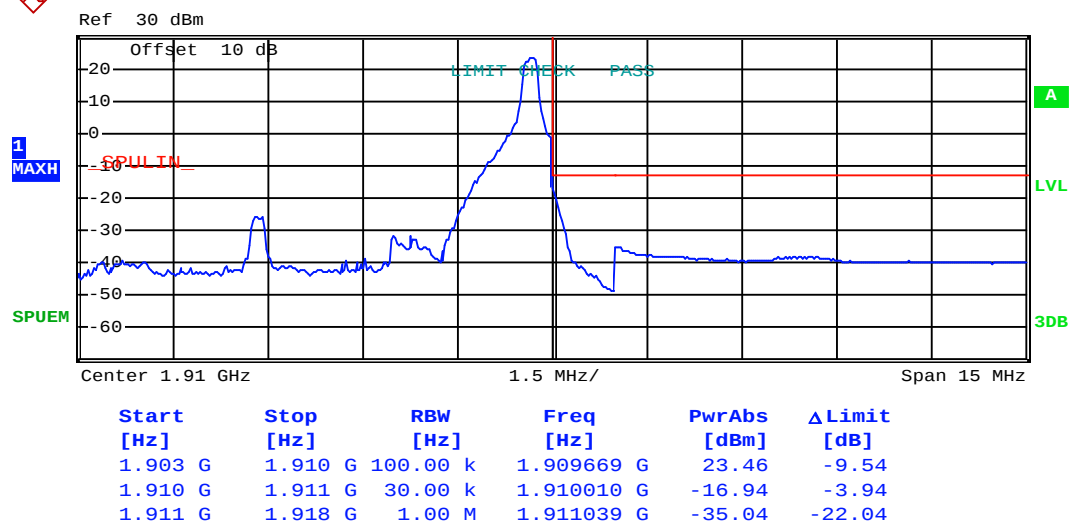
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 24)



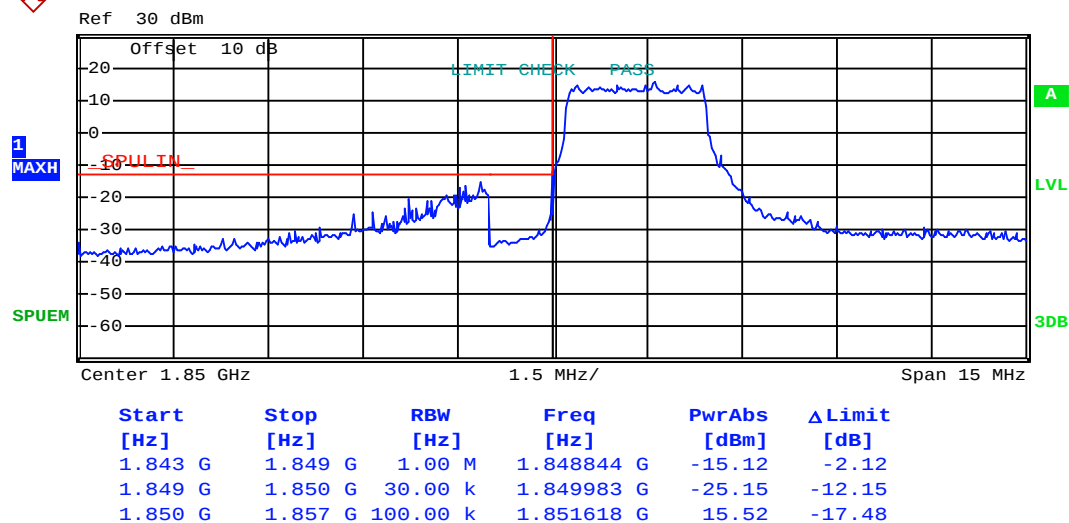
Lowest channel



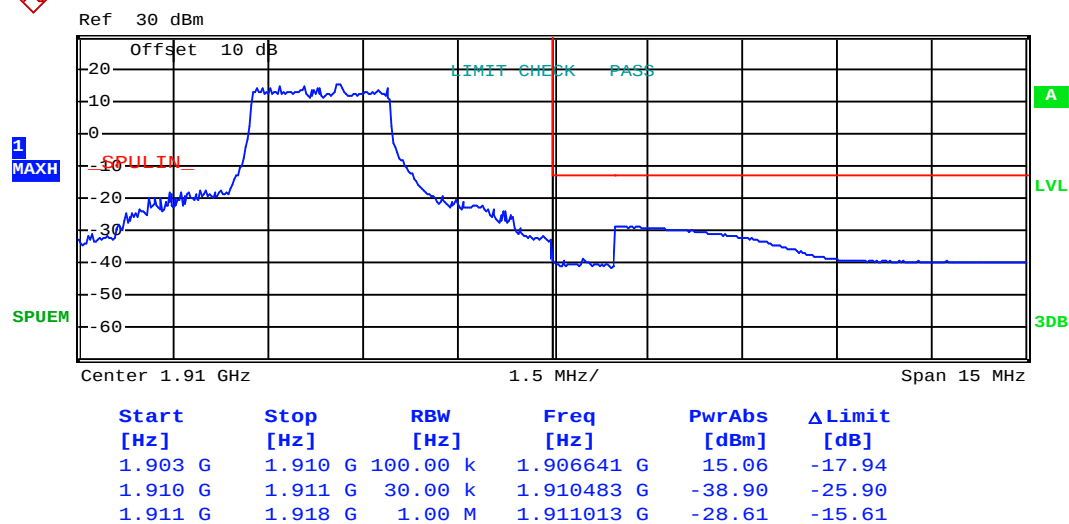
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 12 & RB Offset 0)



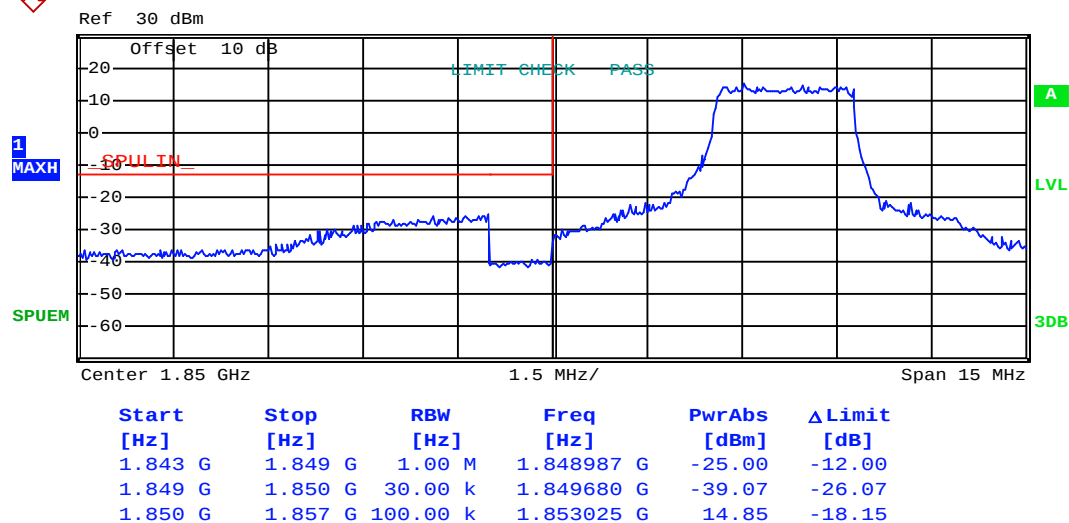
Lowest channel



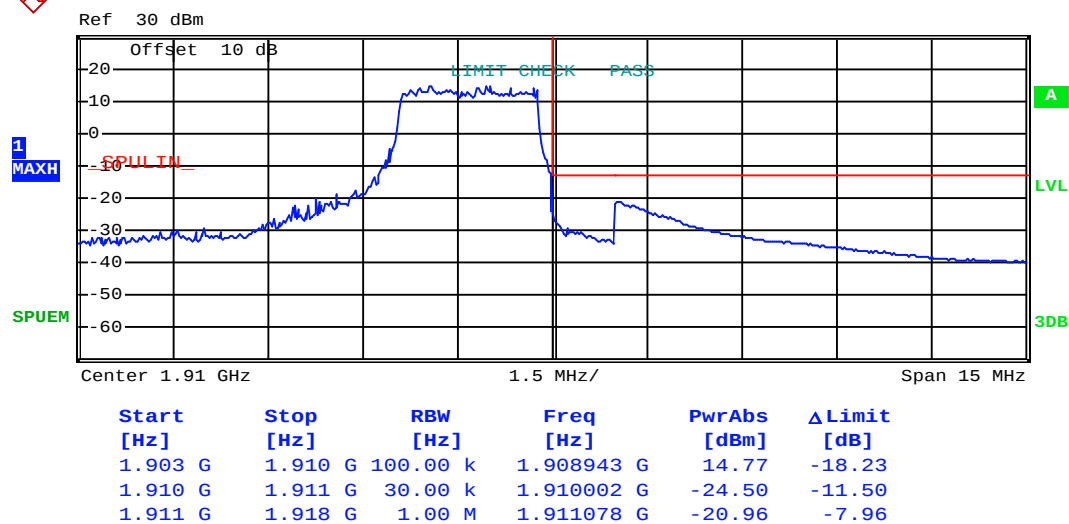
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 12 & RB Offset 11)



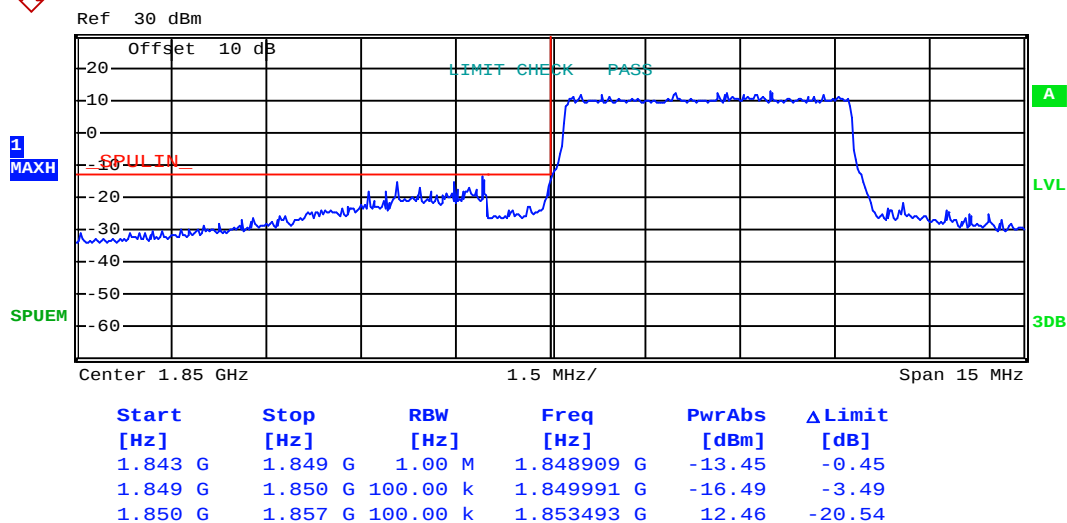
Lowest channel



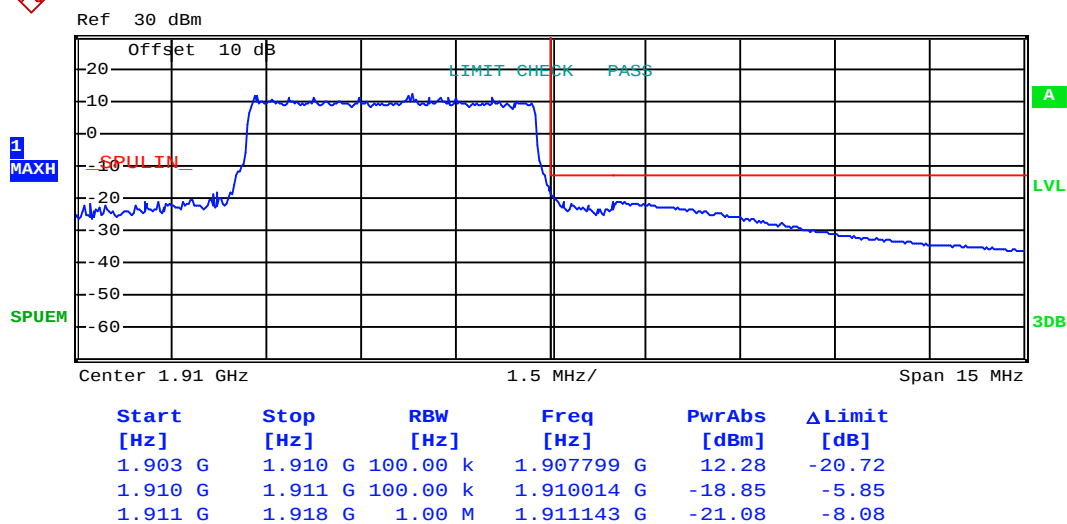
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 25 & RB Offset 0)



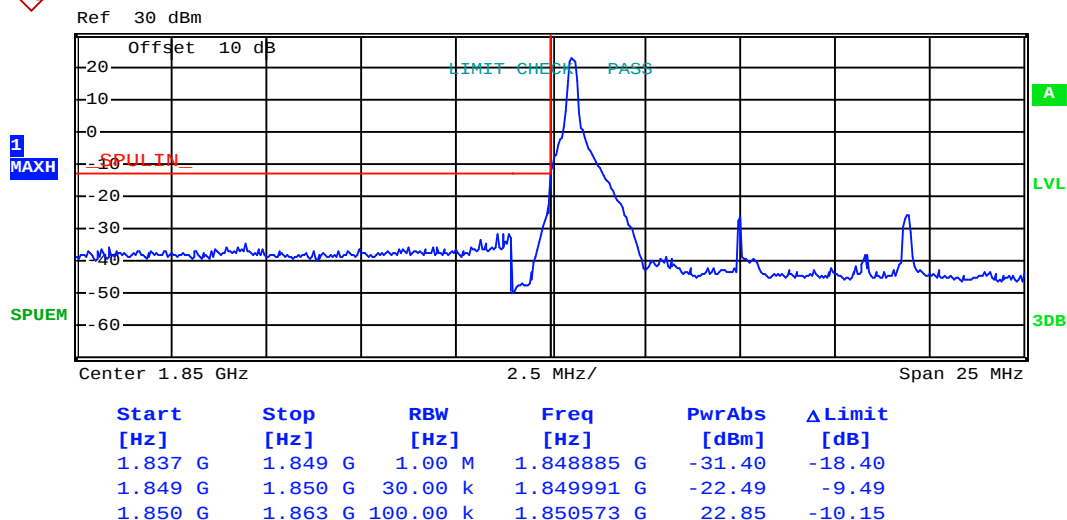
Lowest channel



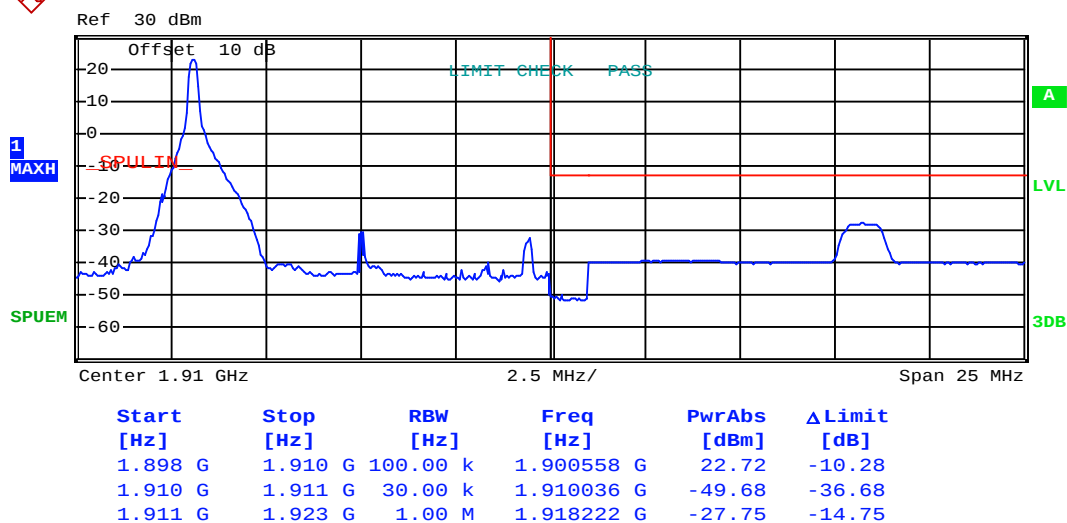
Highest channel

10MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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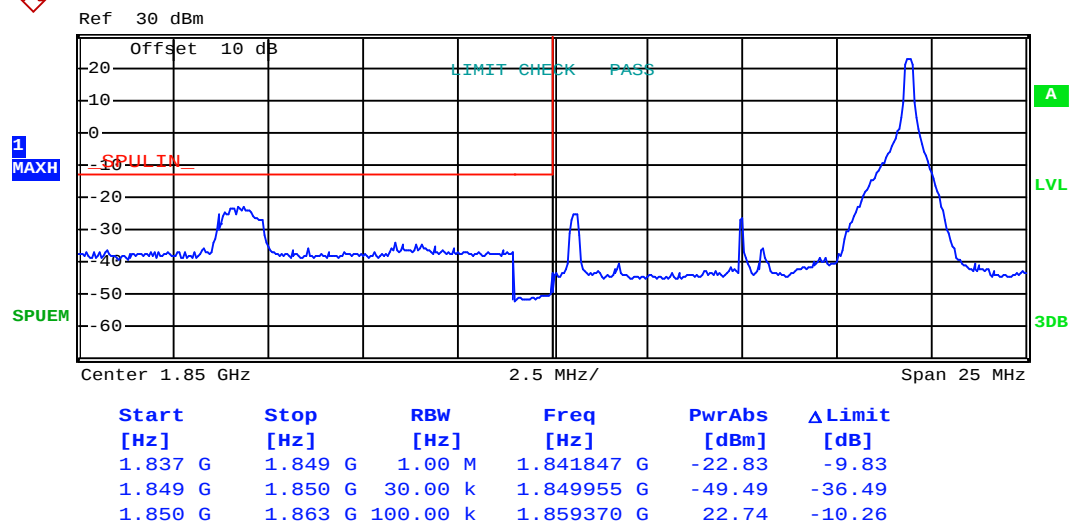
Lowest channel



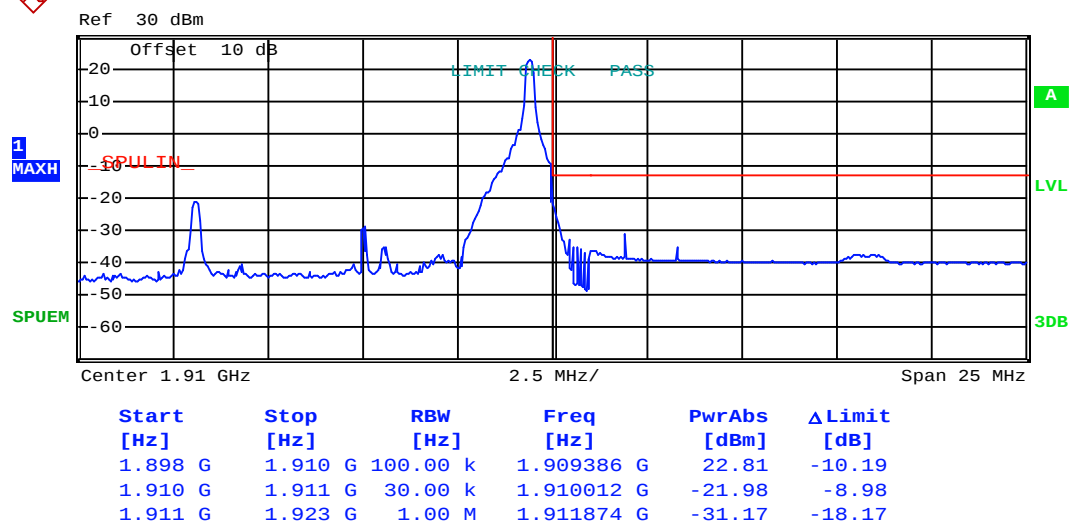
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 49)



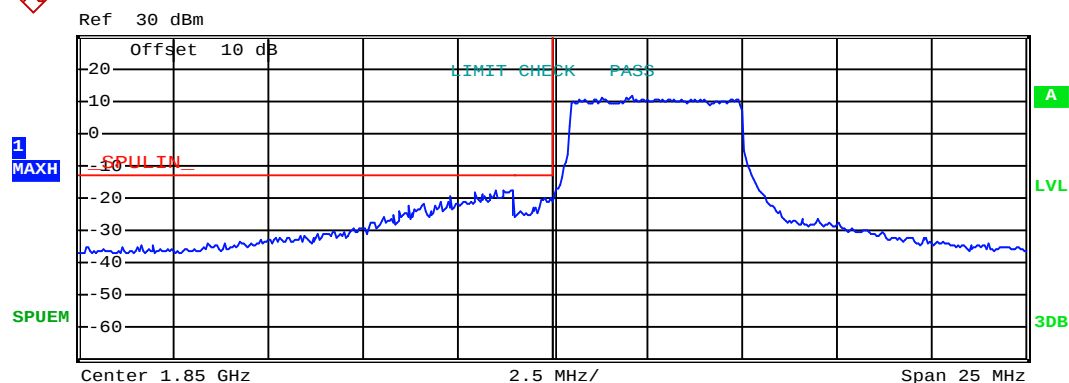
Lowest channel



Highest channel

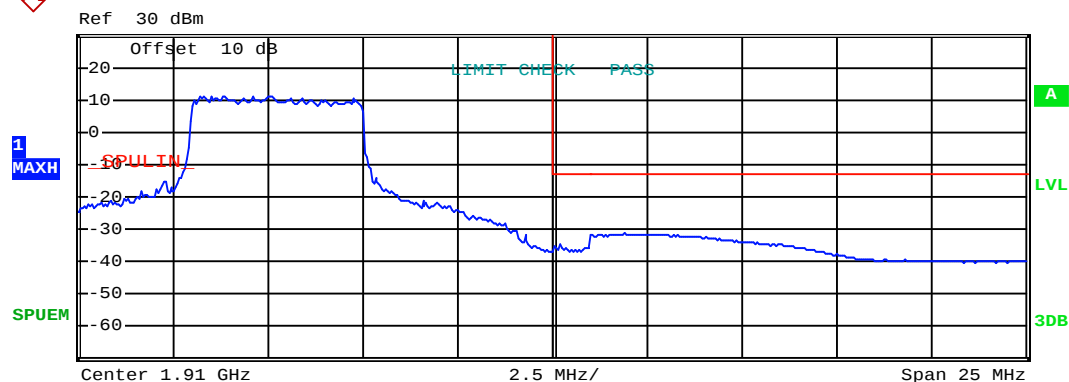
Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 0)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.837 G	1.849 G	1.00 M	1.848471 G	-17.60	-4.60
1.849 G	1.850 G	100.00 k	1.849997 G	-19.86	-6.86
1.850 G	1.863 G	100.00 k	1.852084 G	11.35	-21.65

Lowest channel

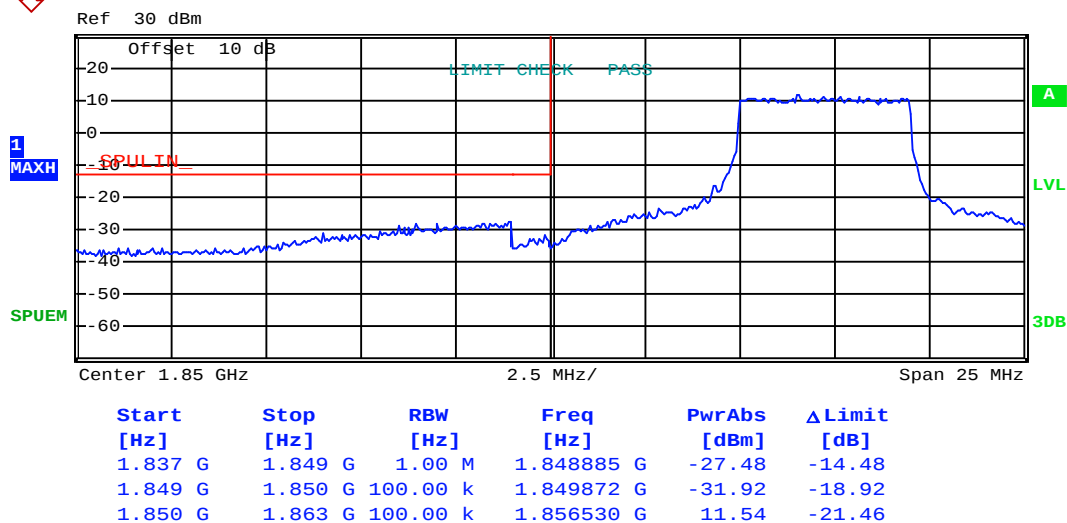


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.898 G	1.910 G	100.00 k	1.902103 G	11.18	-21.82
1.910 G	1.911 G	100.00 k	1.910204 G	-34.89	-21.89
1.911 G	1.923 G	1.00 M	1.911897 G	-31.36	-18.36

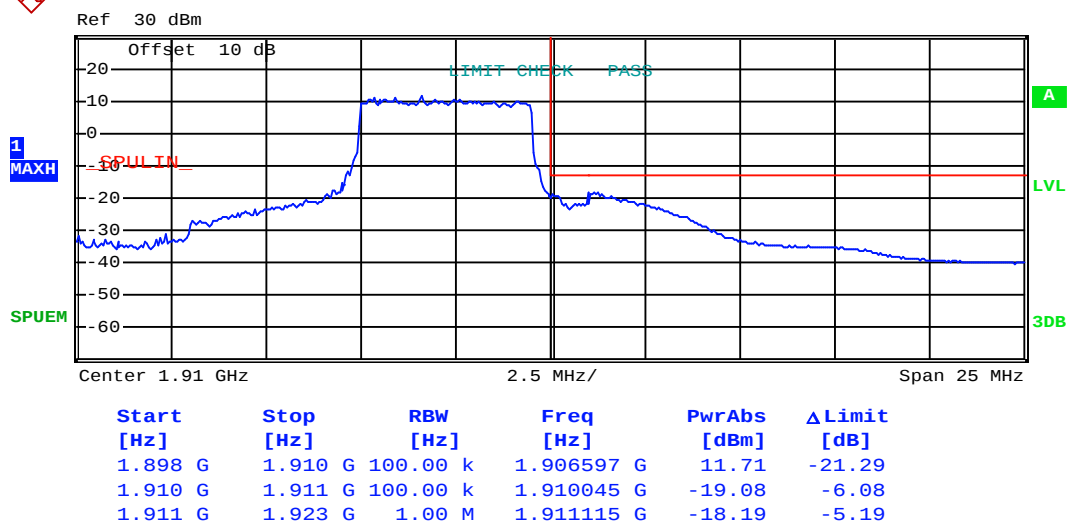
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 24)



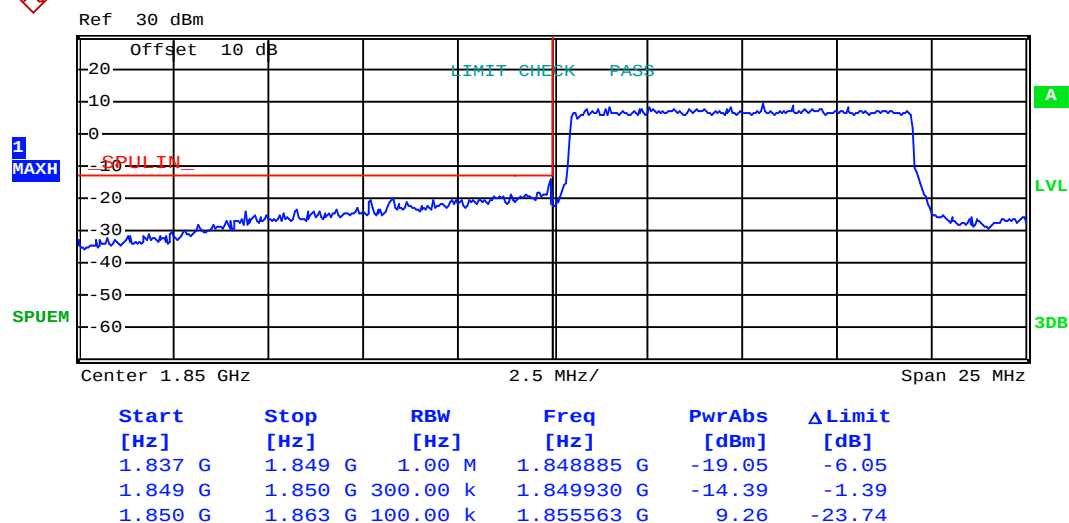
Lowest channel



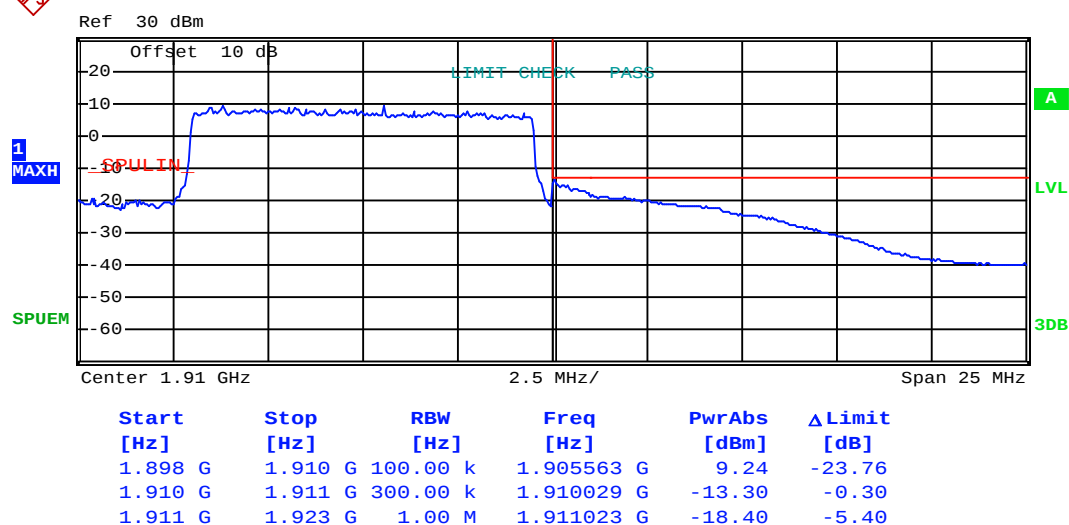
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 50 & RB Offset 0)

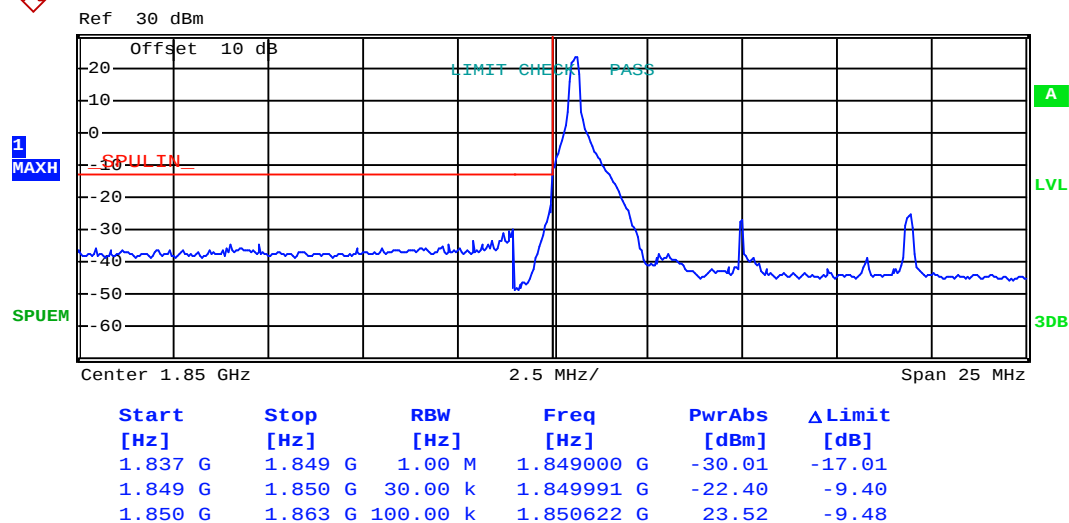


Lowest channel

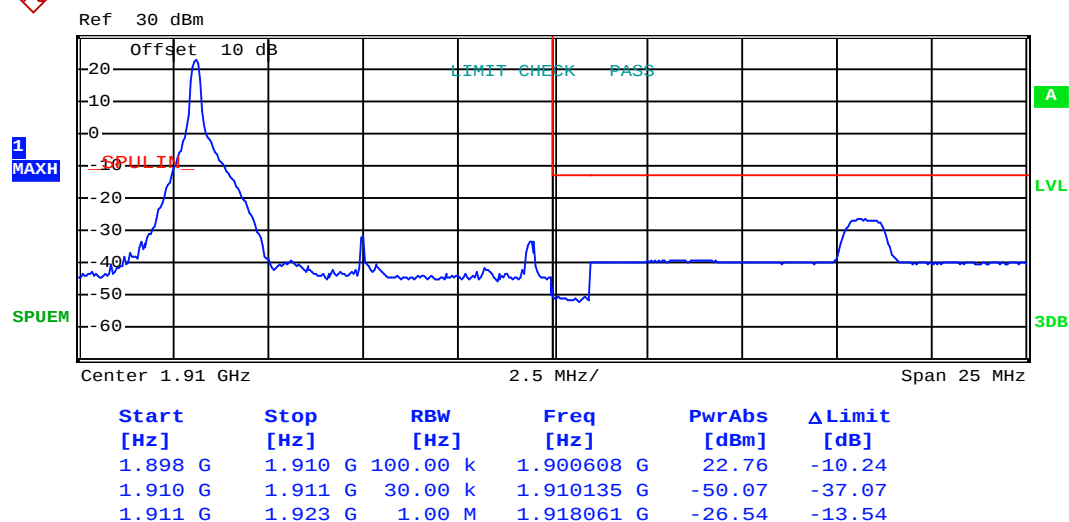


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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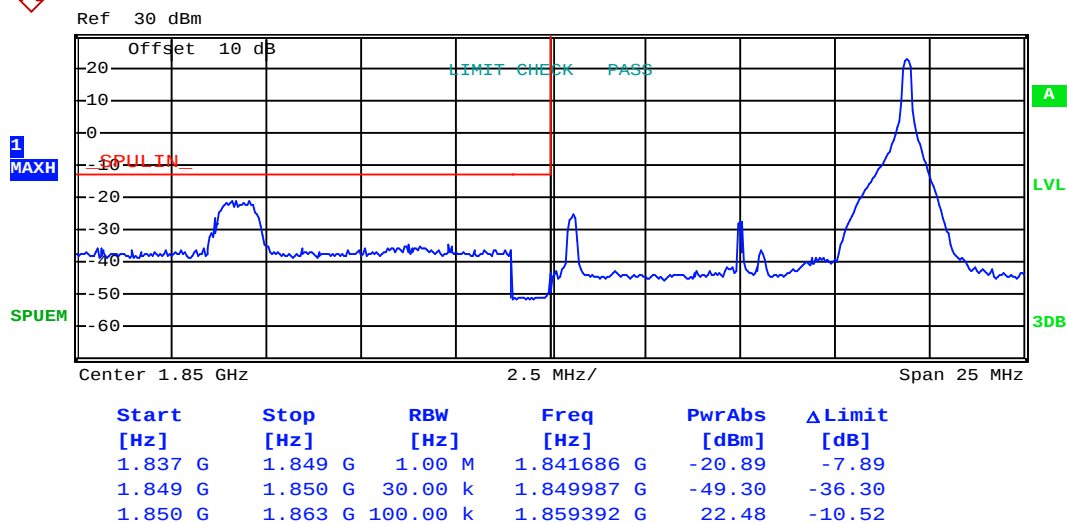
Lowest channel



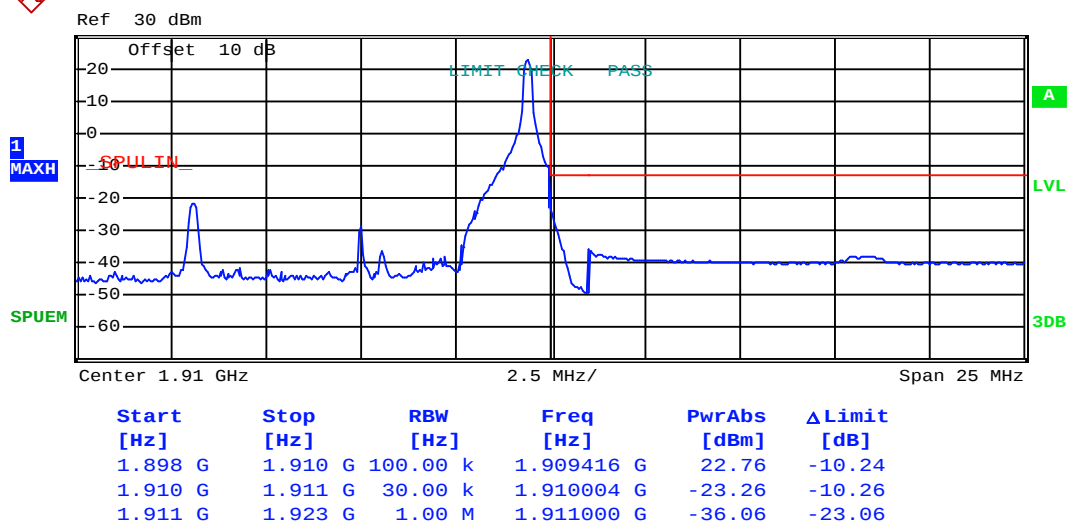
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 49)

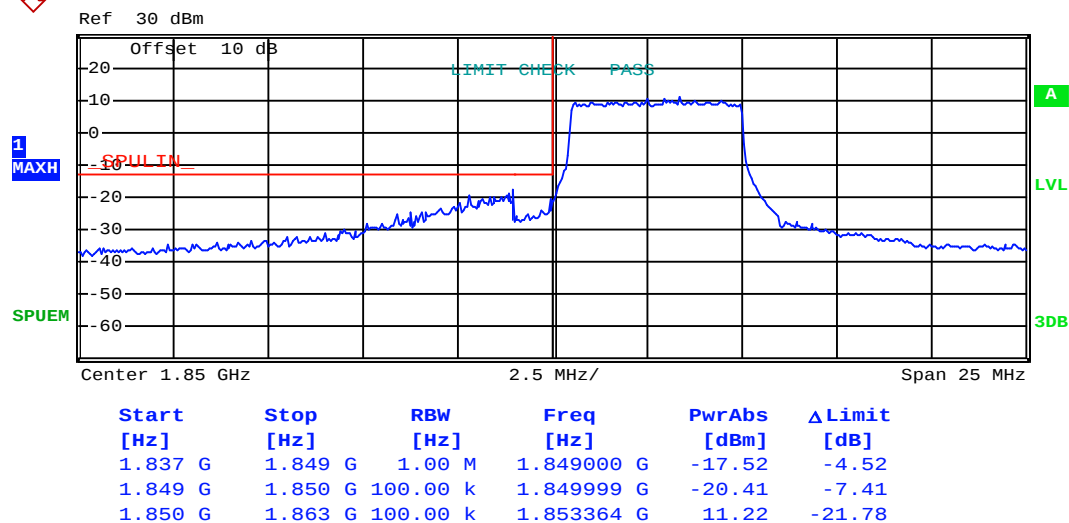


Lowest channel

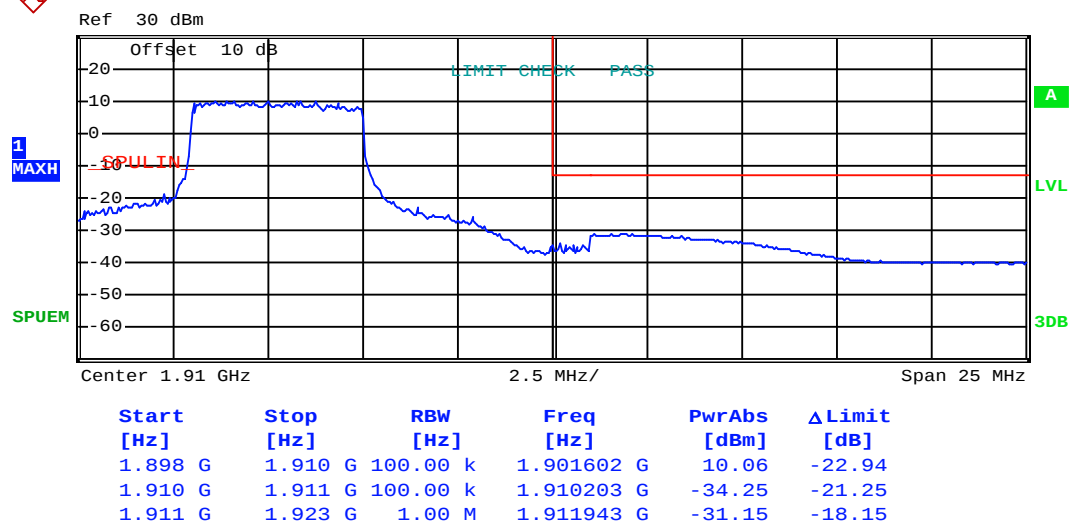


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 25 & RB Offset 0)
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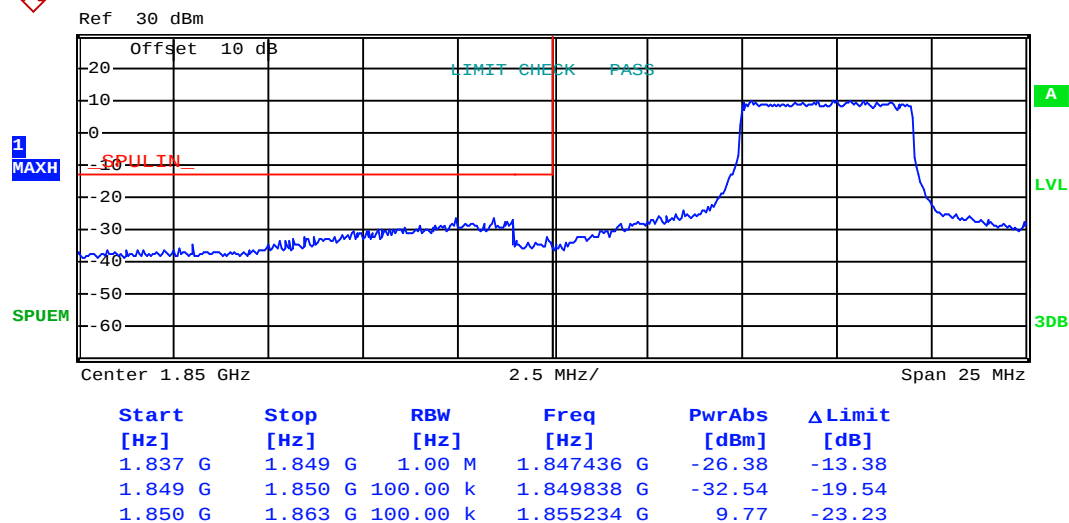


Lowest channel

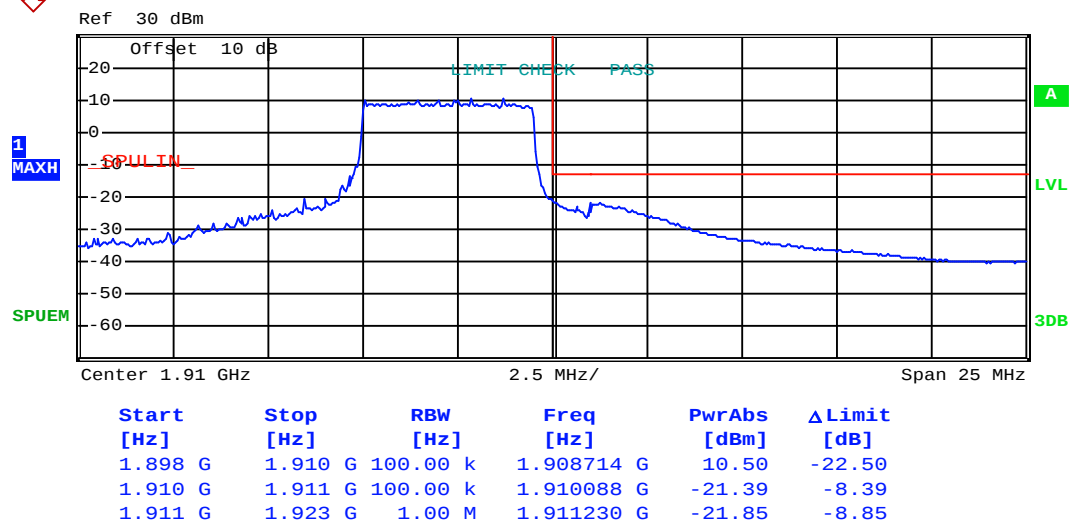


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 25 & RB Offset 24)
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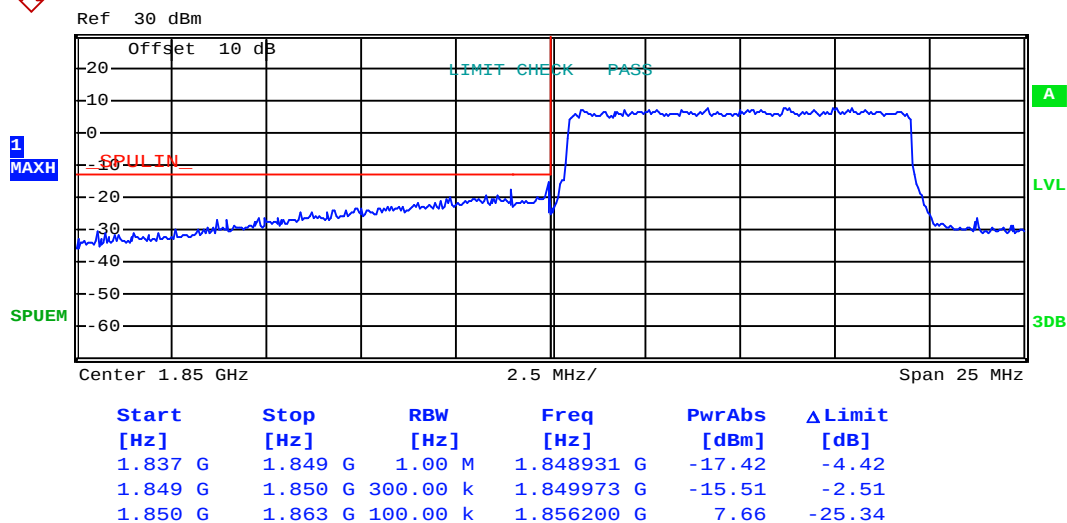
Lowest channel



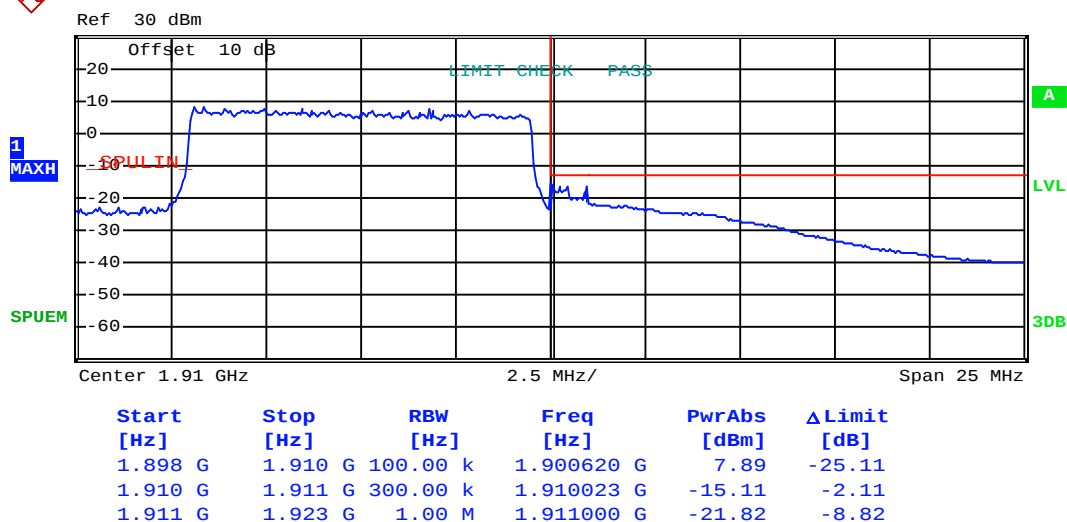
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 0)



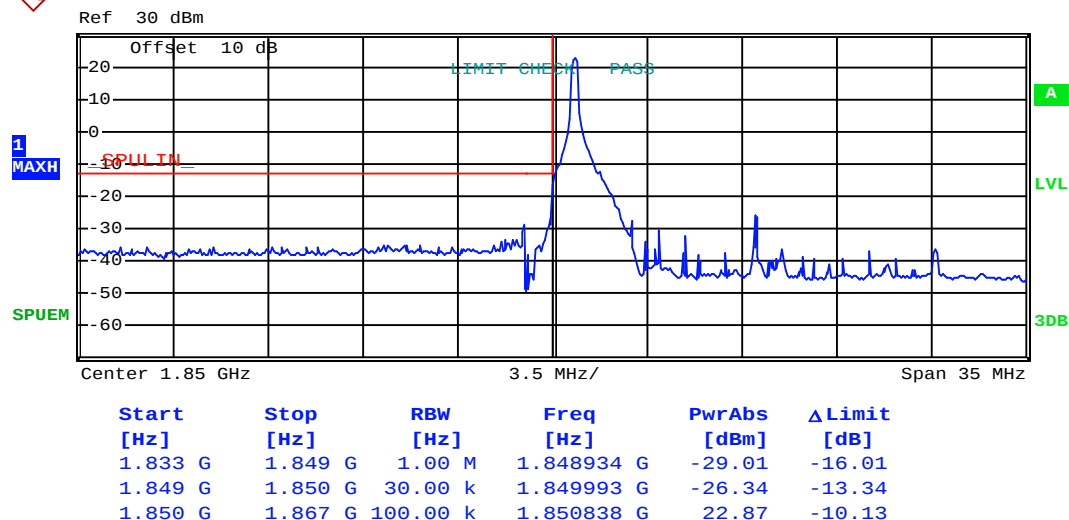
Lowest channel



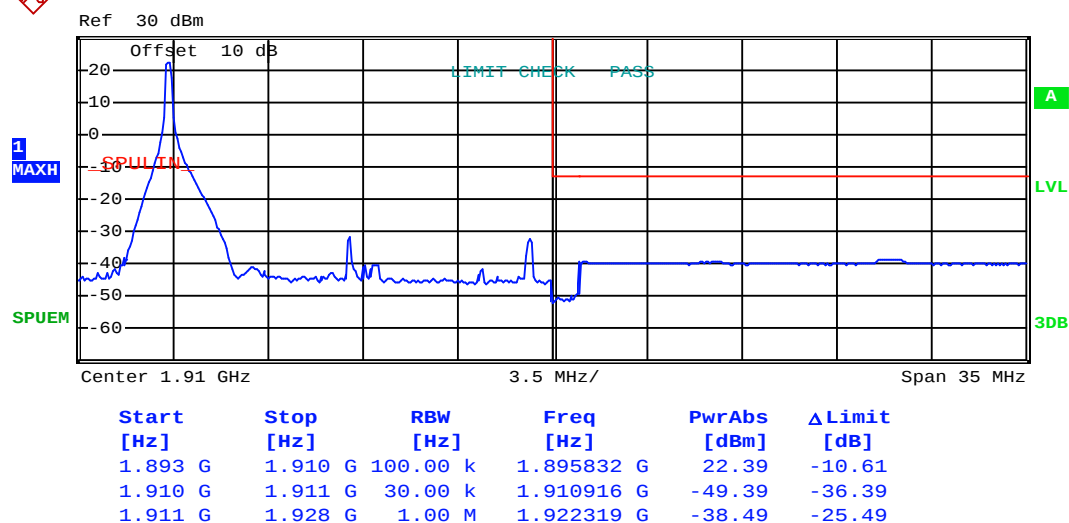
Highest channel

15MHz:

Test Mode:	LTE band 2(QPSKRB Size 1 & RB Offset 0)
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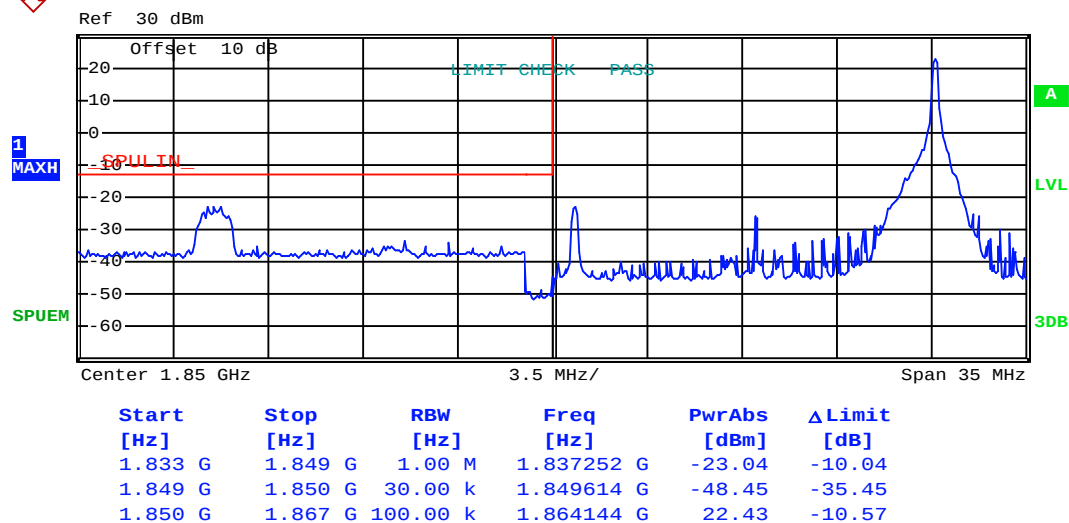


Lowest channel

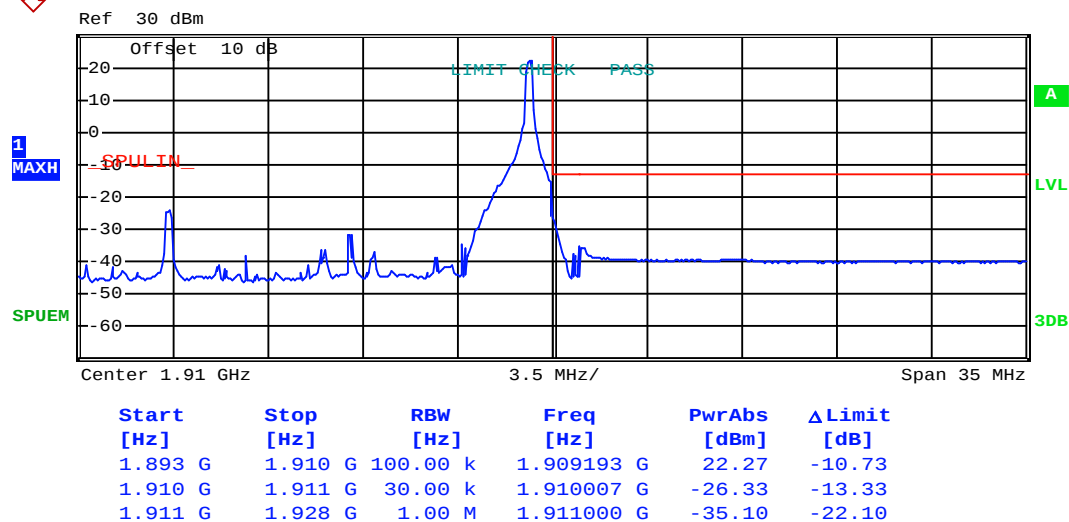


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 74)
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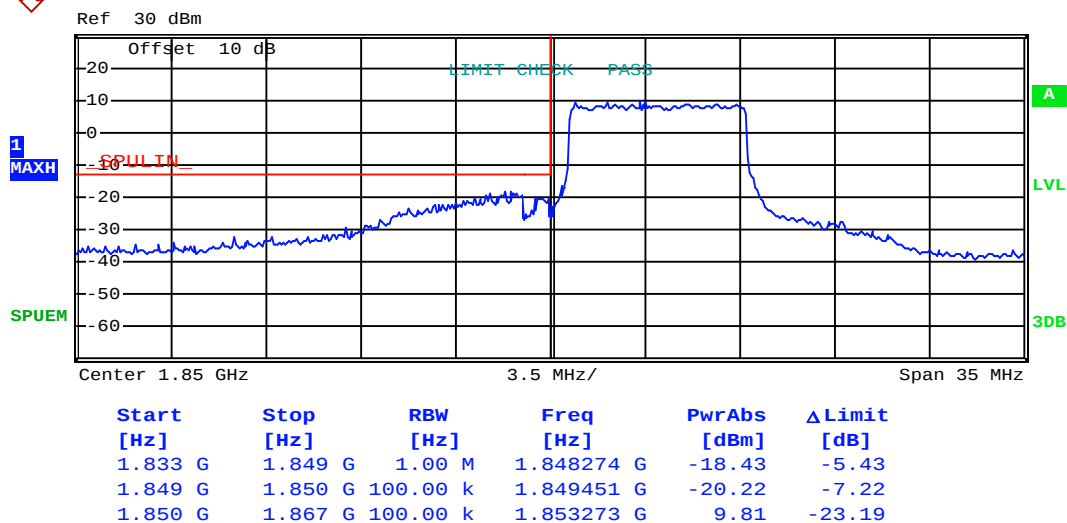
Lowest channel



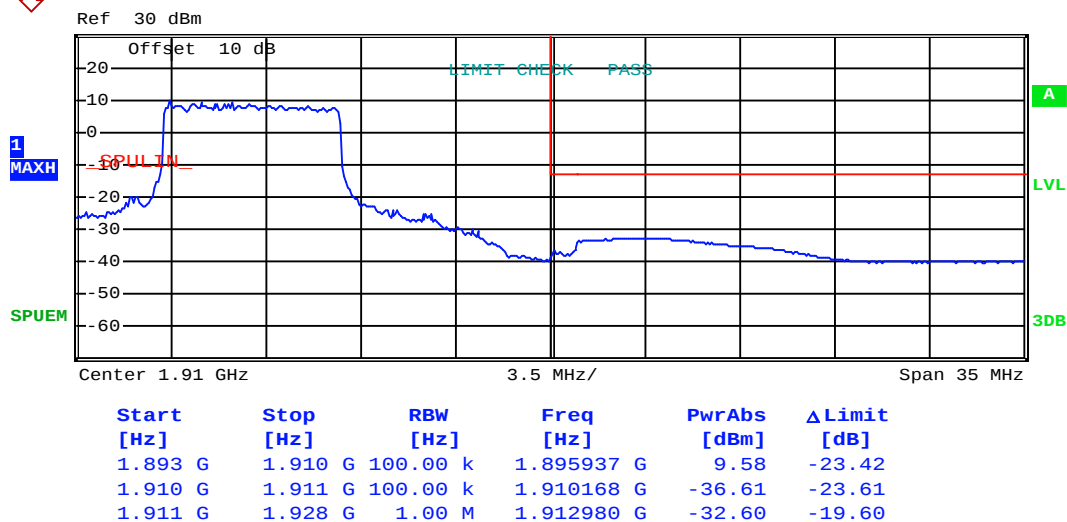
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 36 & RB Offset 0)

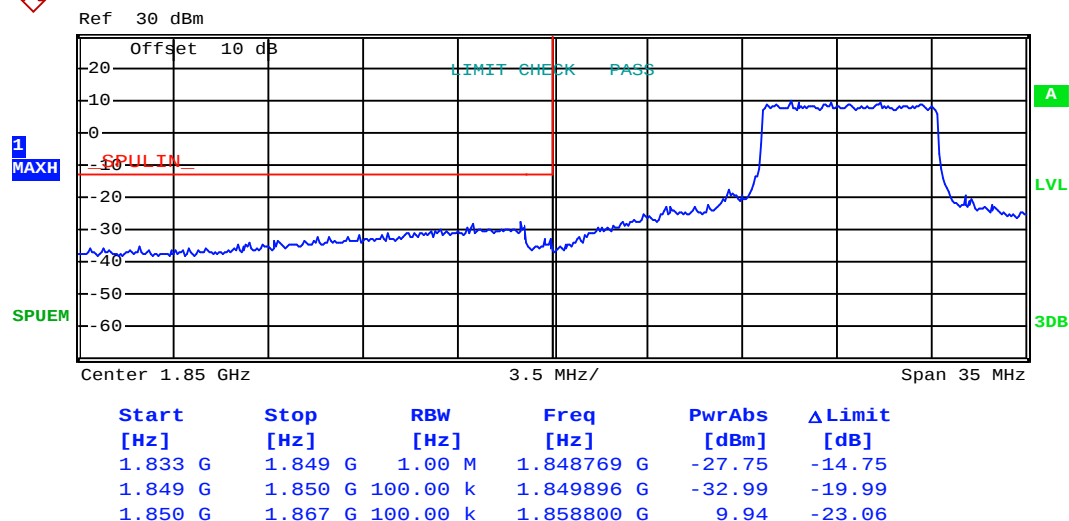


Lowest channel

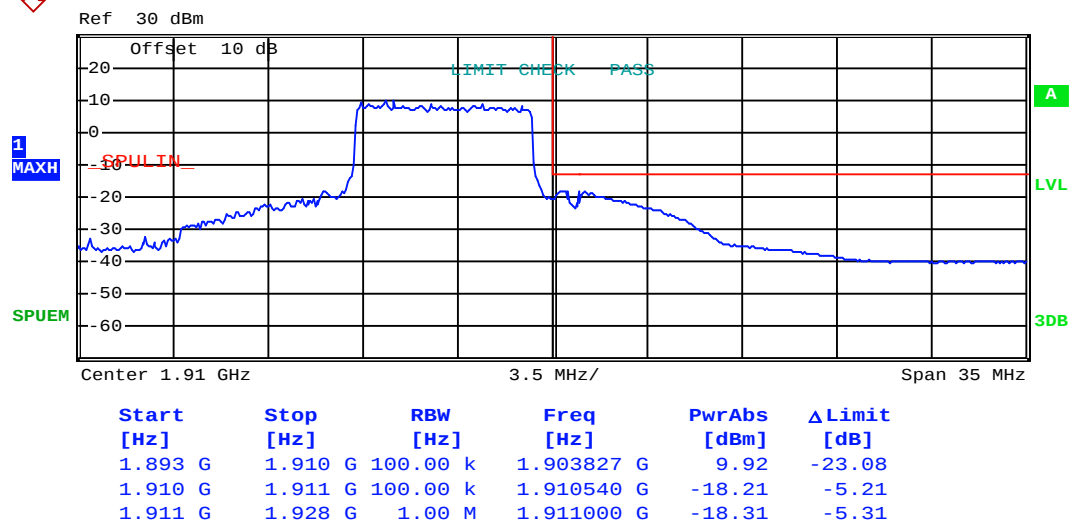


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 36 & RB Offset 35)
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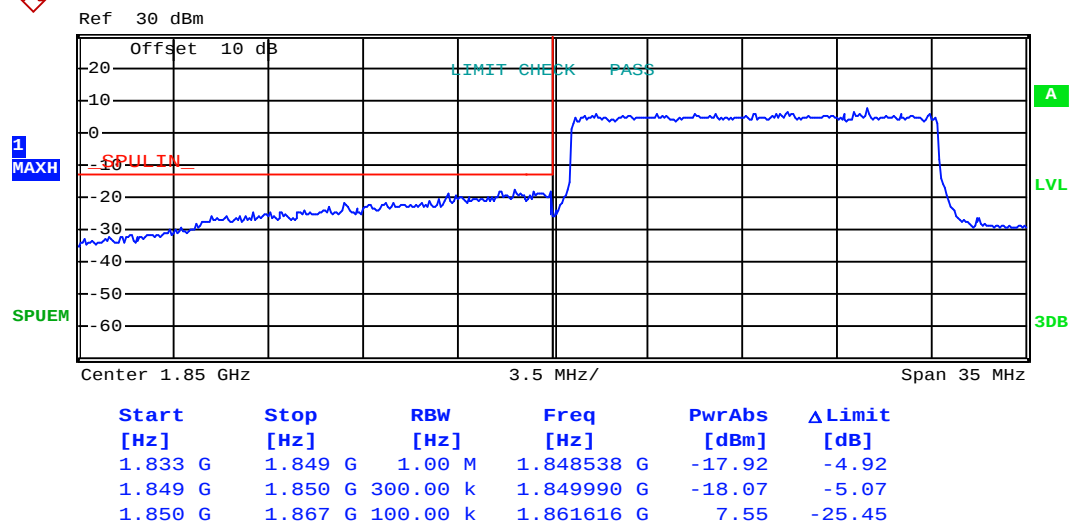


Lowest channel

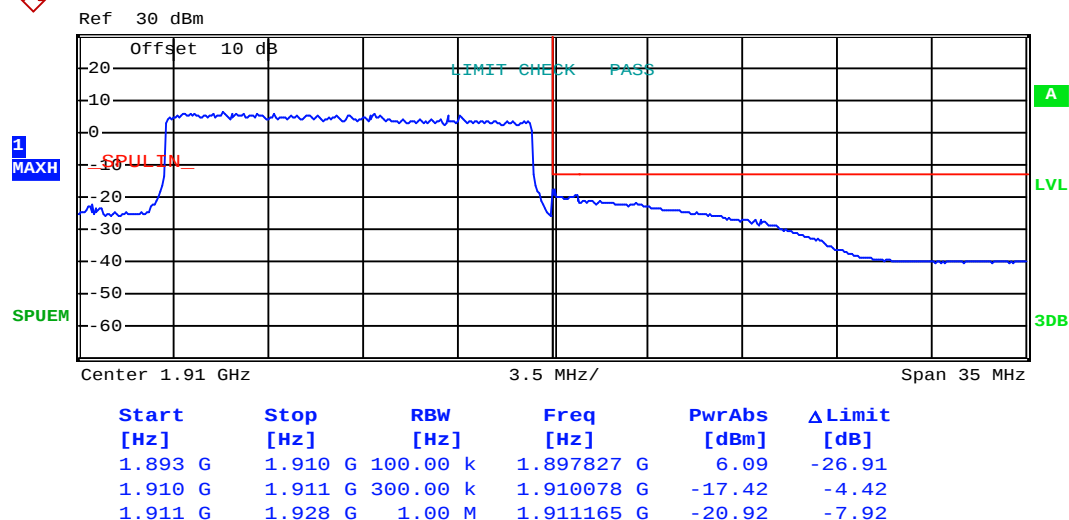


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 75 & RB Offset 0)
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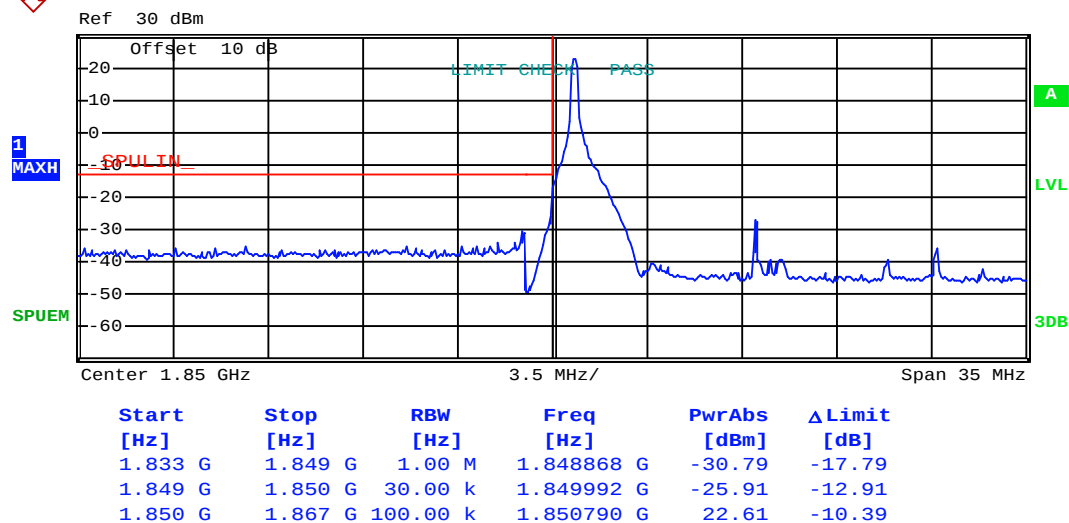


Lowest channel

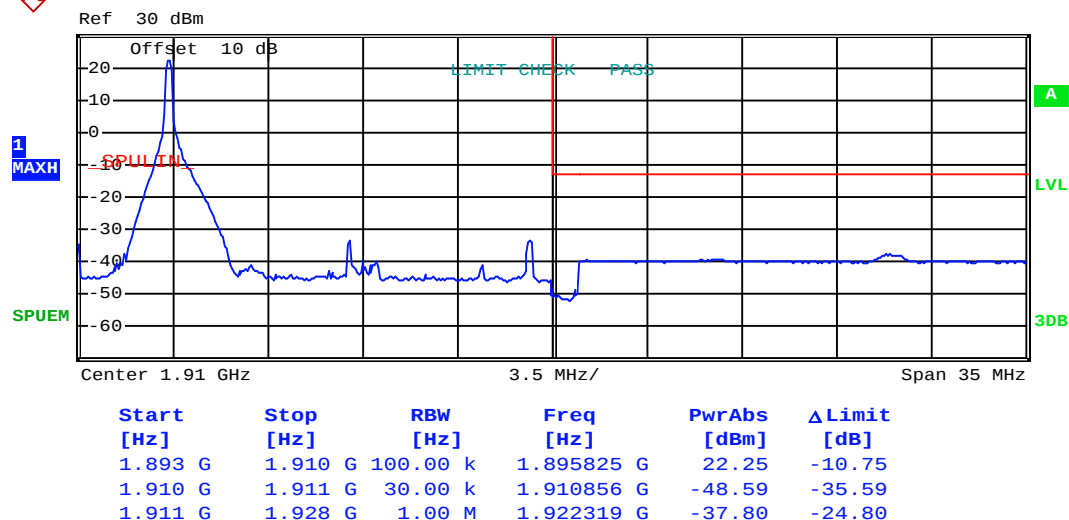


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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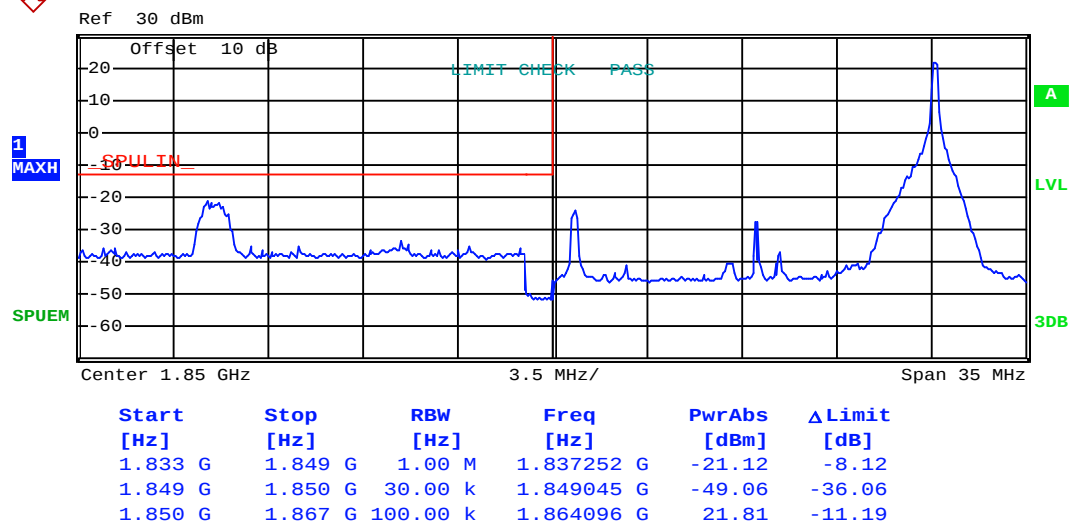


Lowest channel

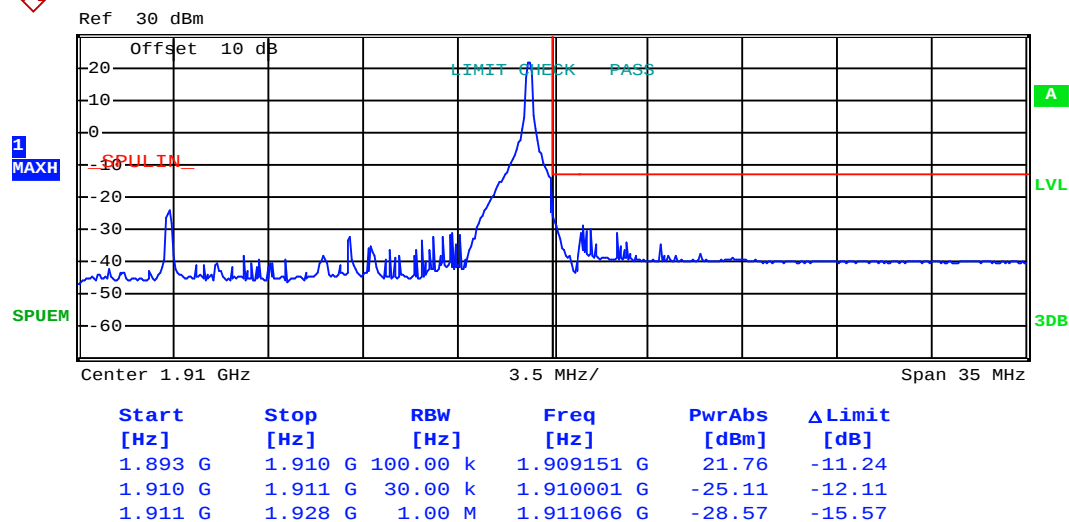


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 74)
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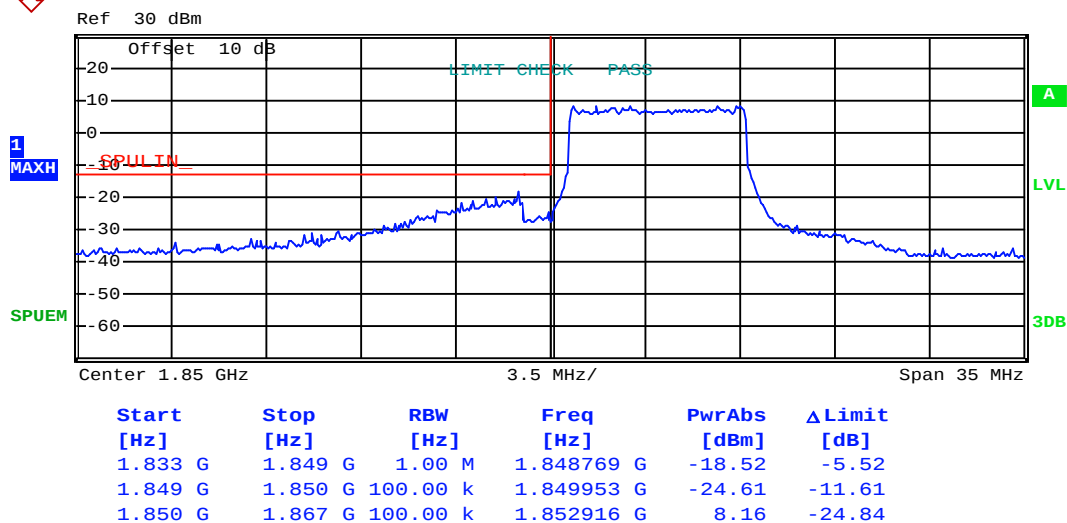
Lowest channel



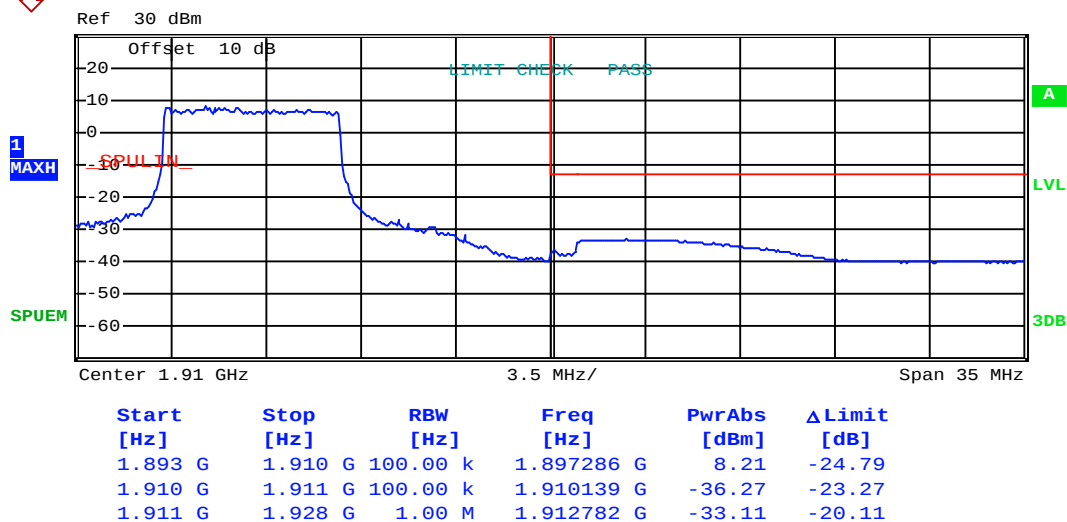
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 36 & RB Offset 0)

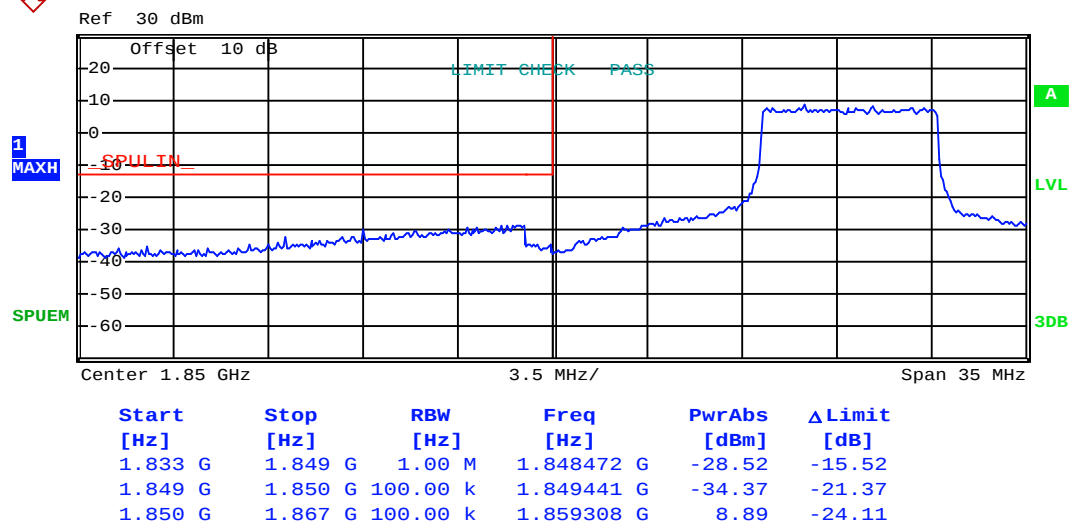


Lowest channel

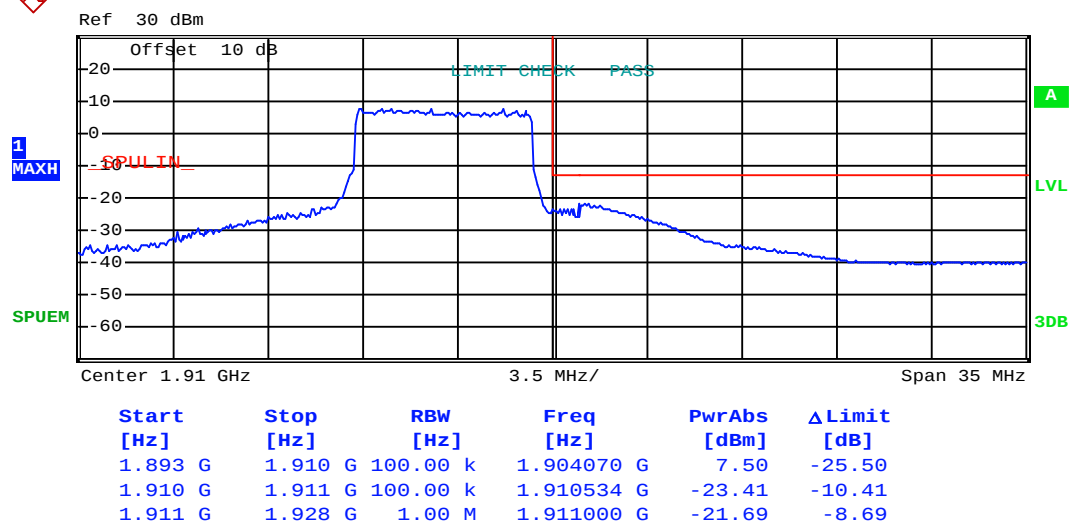


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 36 & RB Offset 35)
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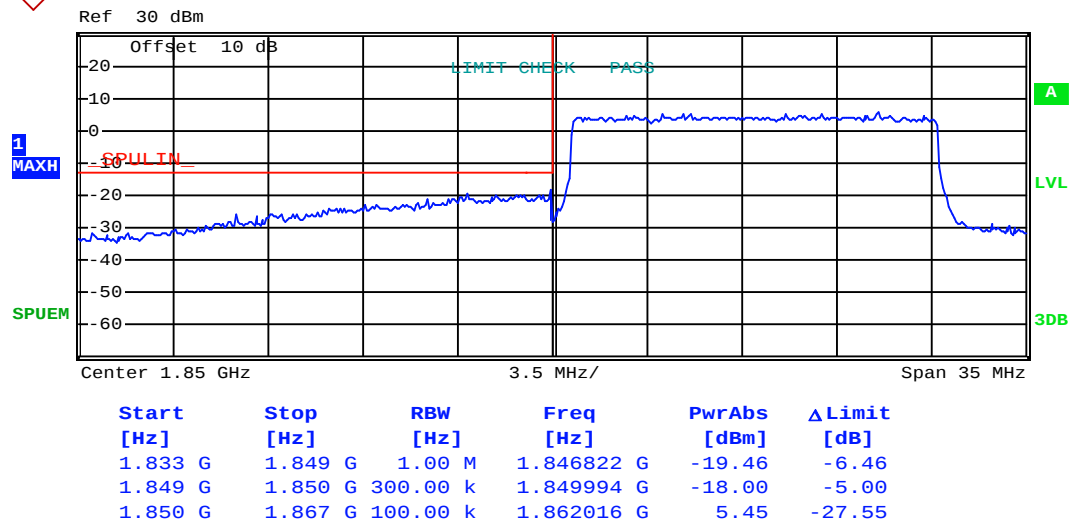
Lowest channel



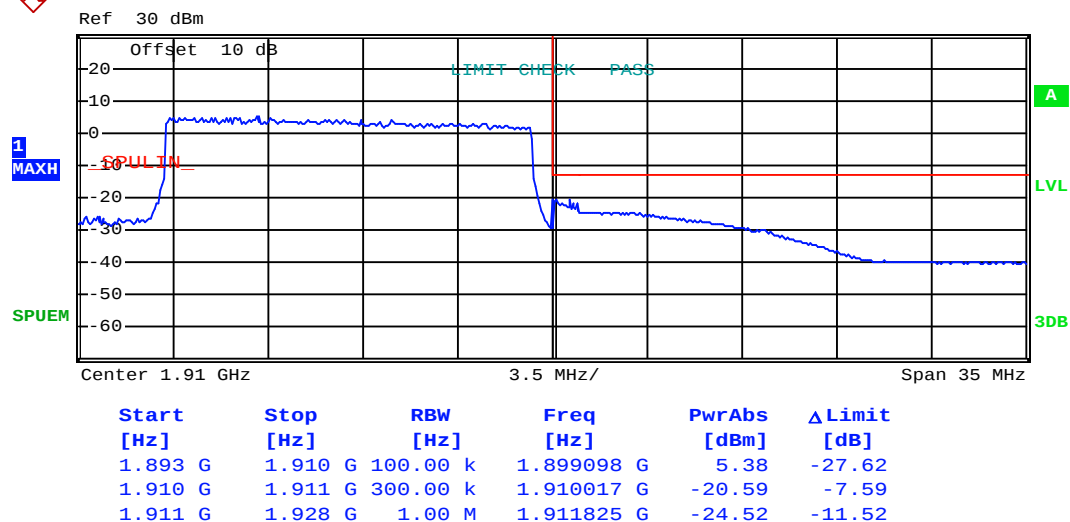
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 75 & RB Offset 0)



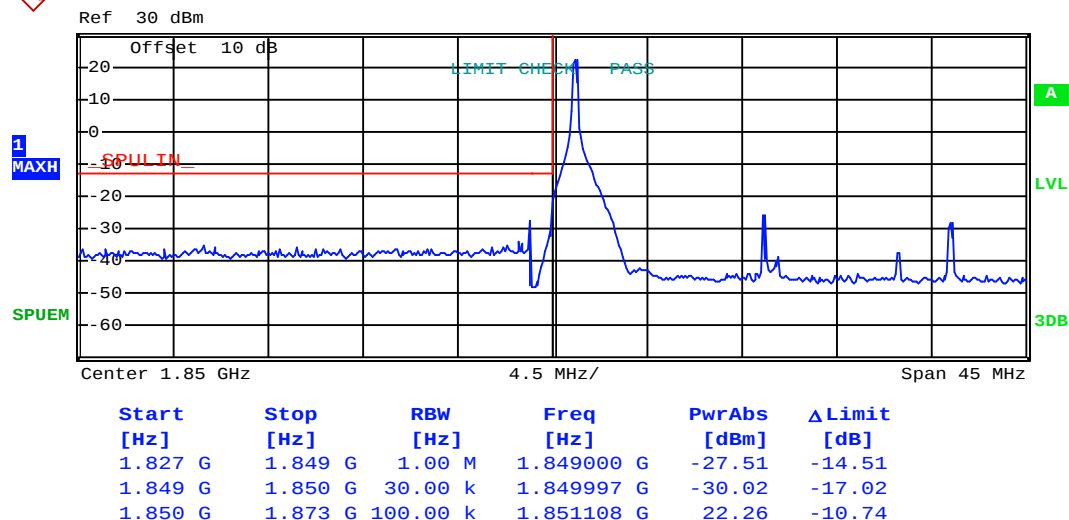
Lowest channel



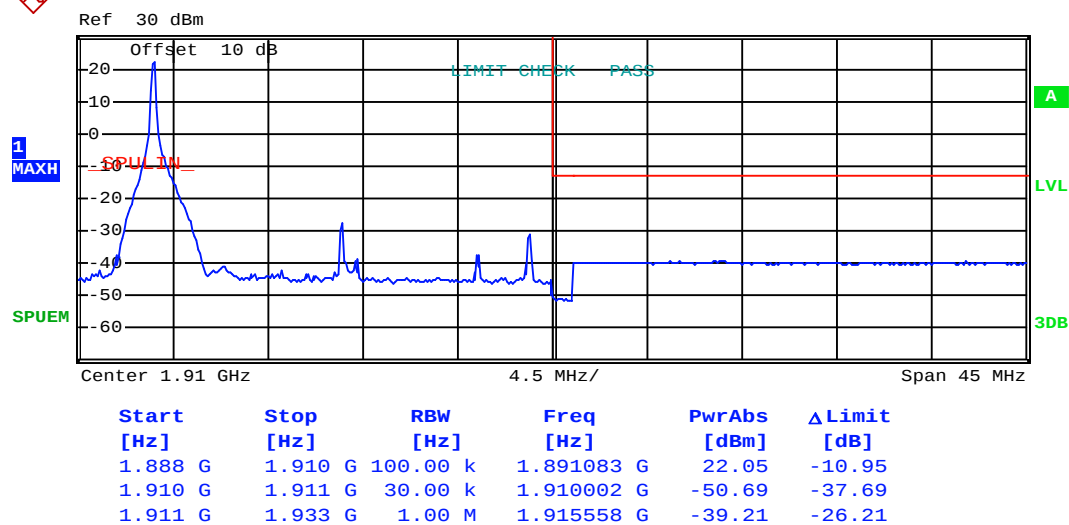
Highest channel

20MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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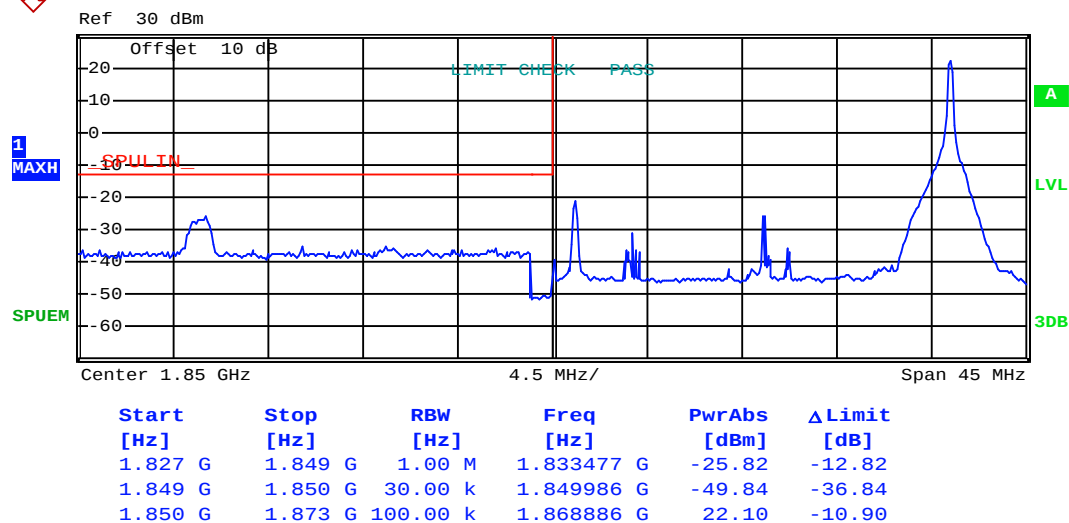


Lowest channel

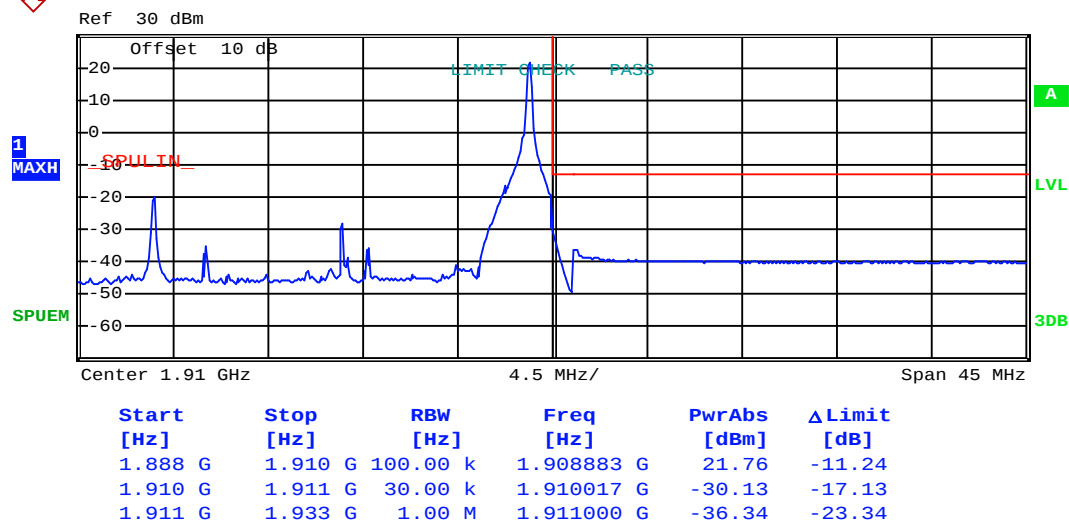


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 99)
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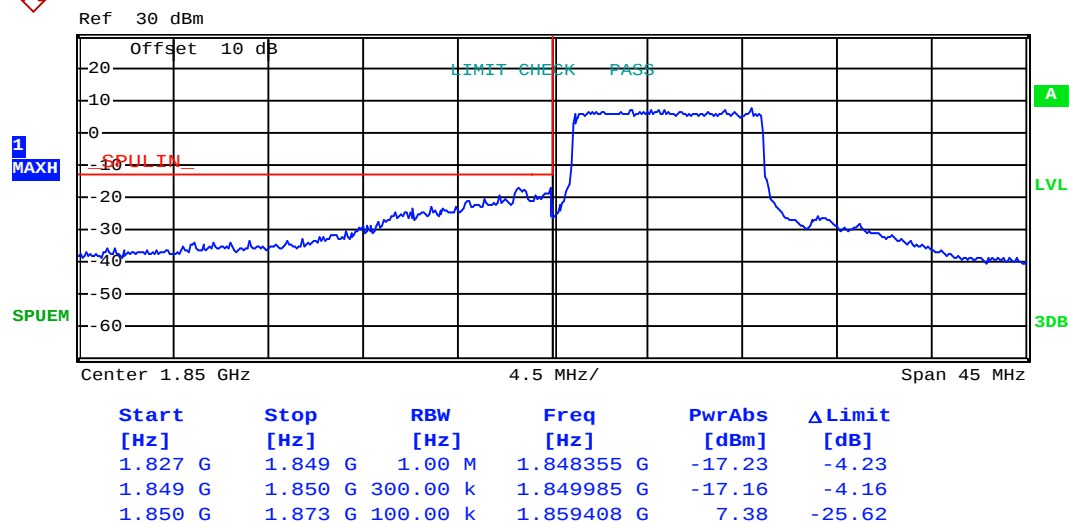


Lowest channel

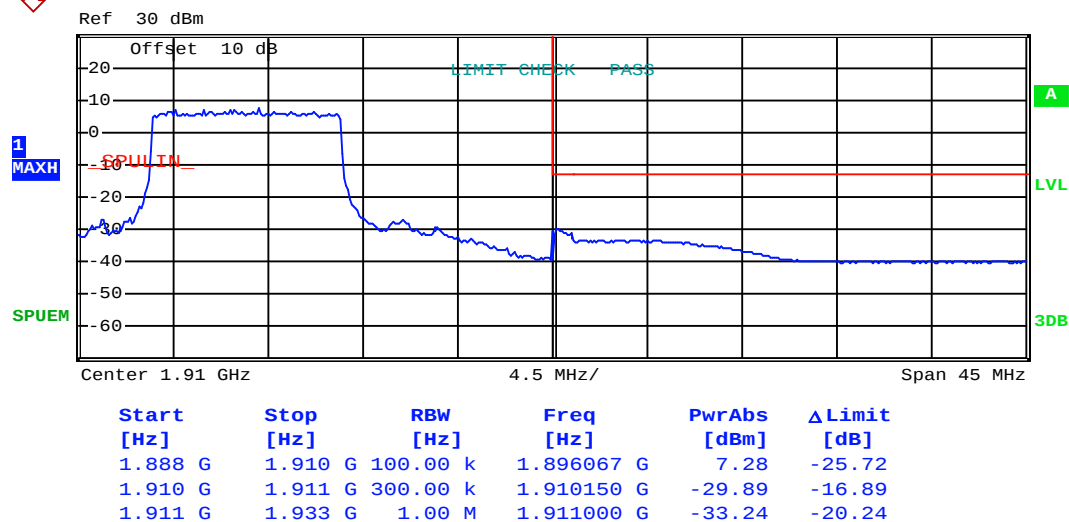


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 50 & RB Offset 0)
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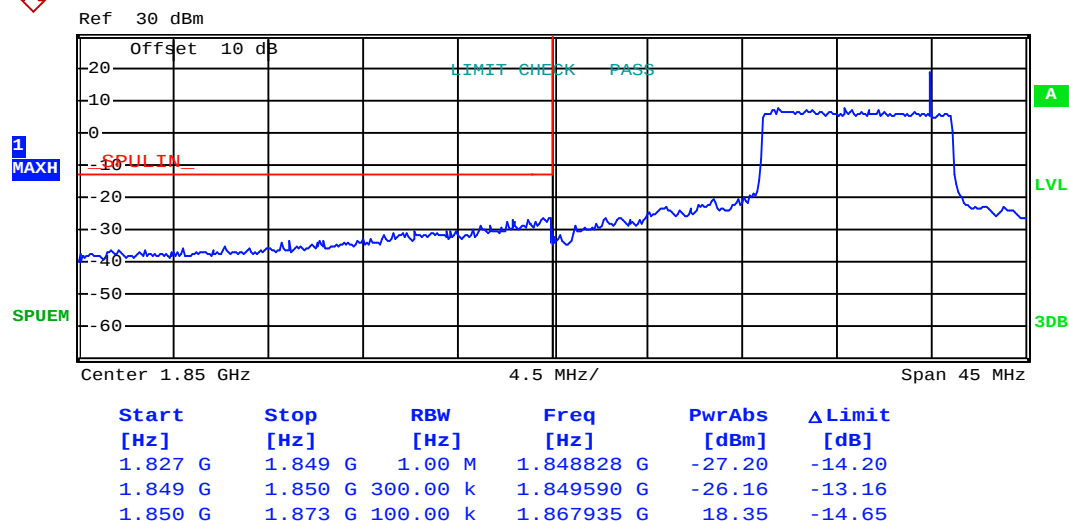


Lowest channel

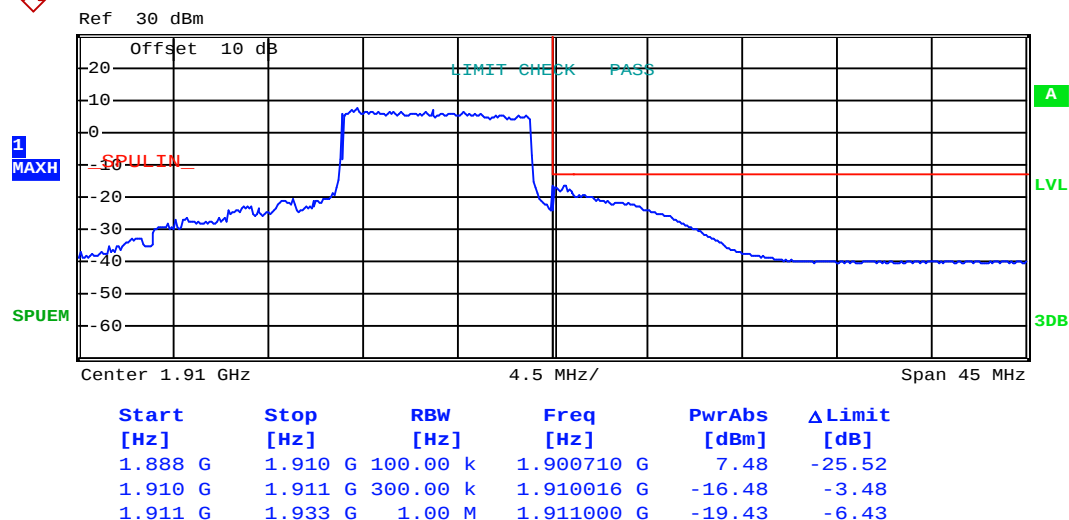


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 50 & RB Offset 49)
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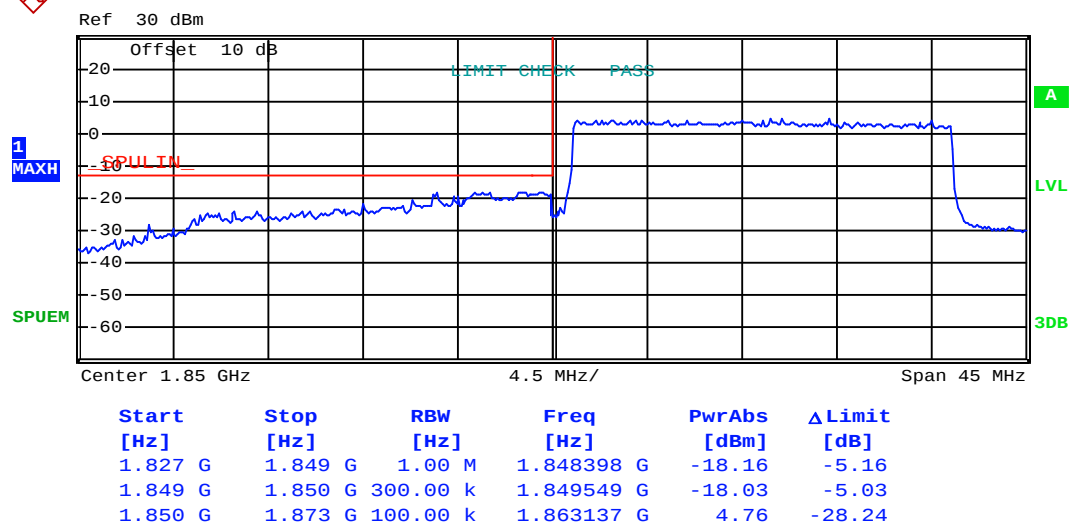
Lowest channel



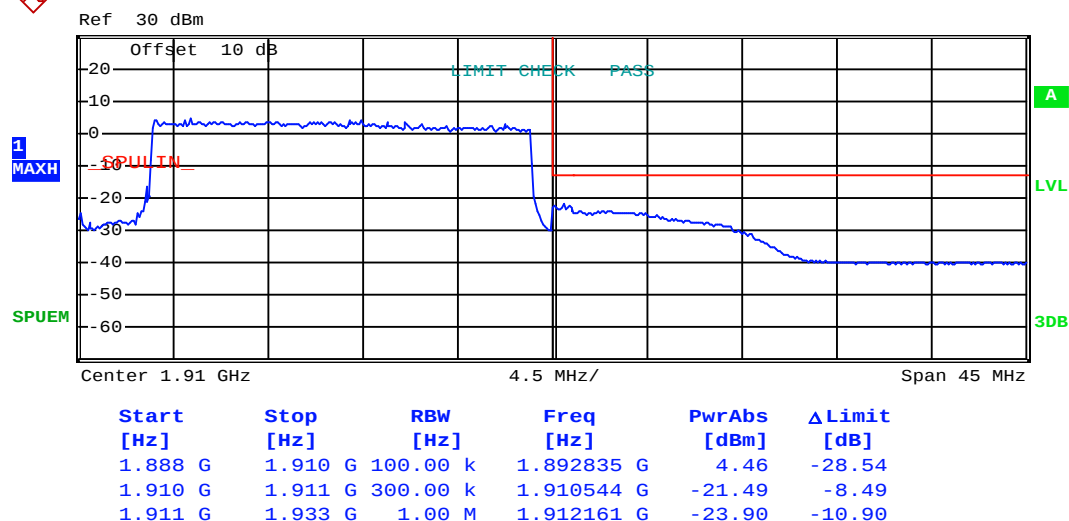
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 100 & RB Offset 0)

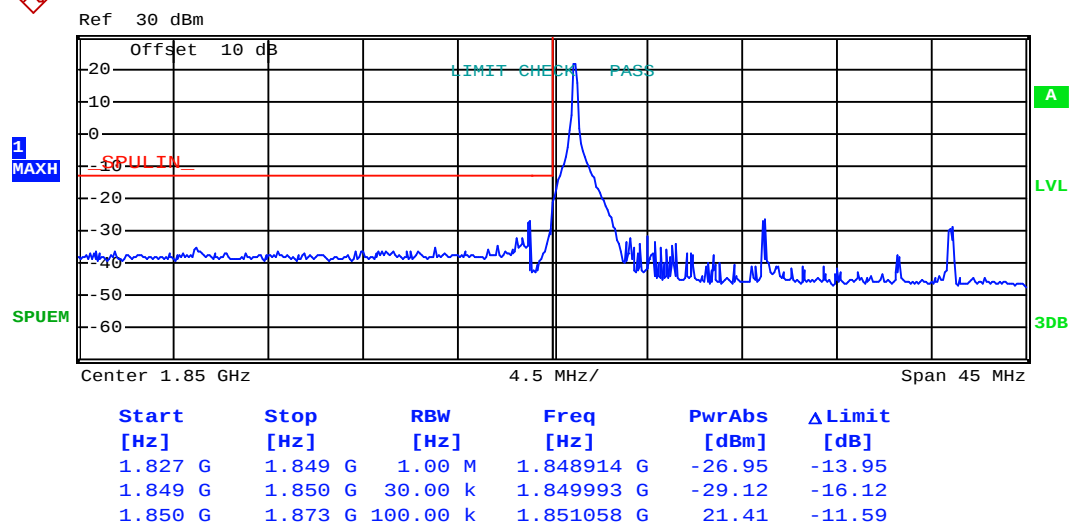


Lowest channel

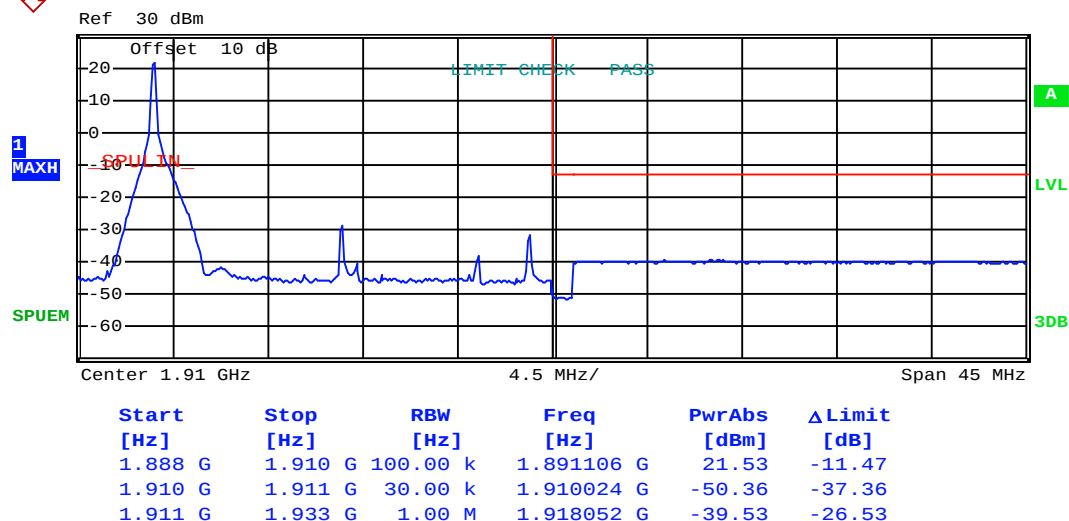


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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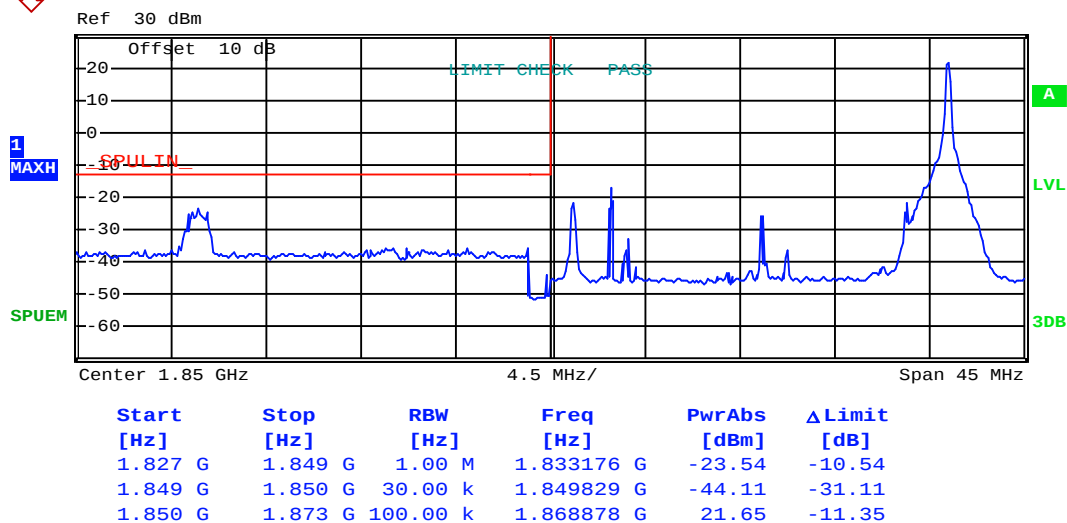
Lowest channel



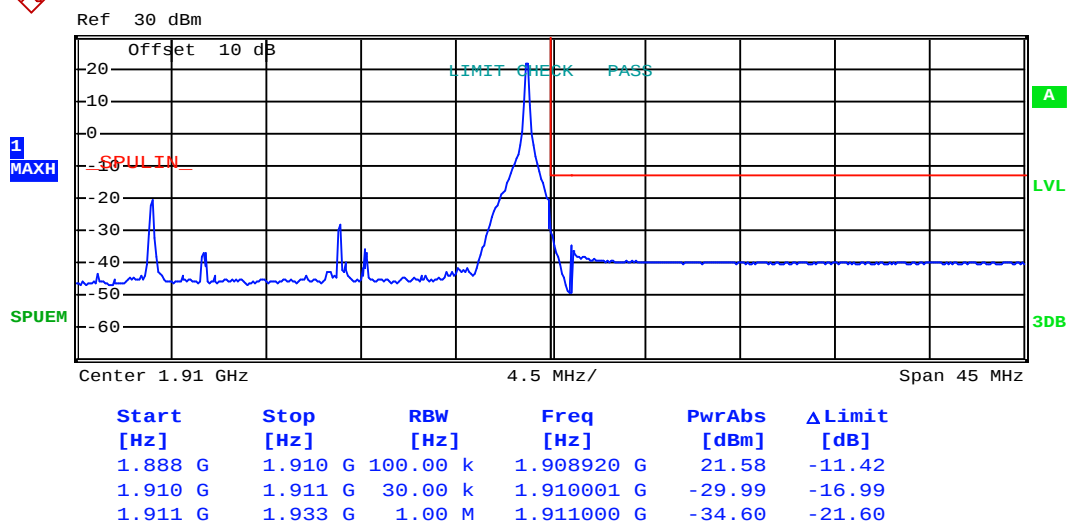
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 99)



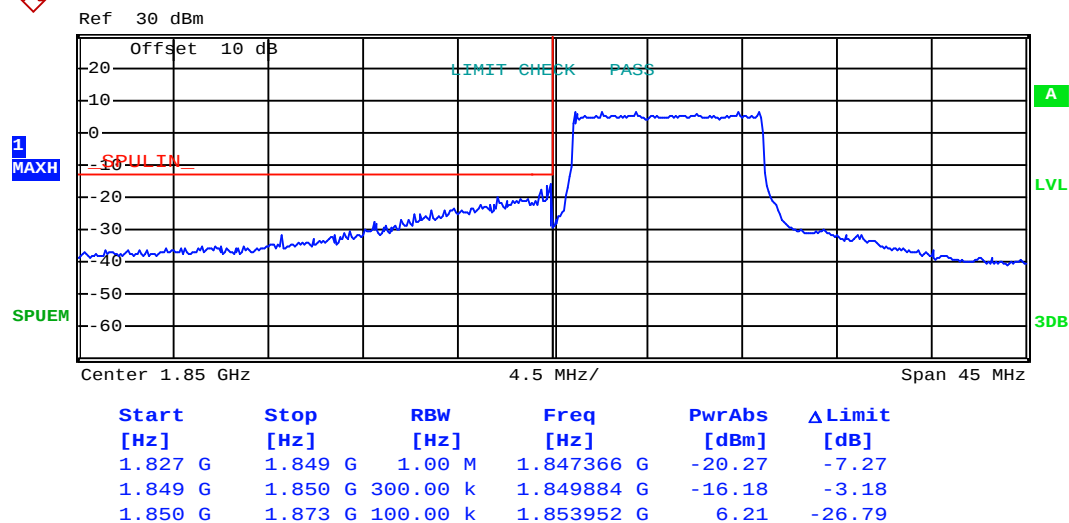
Lowest channel



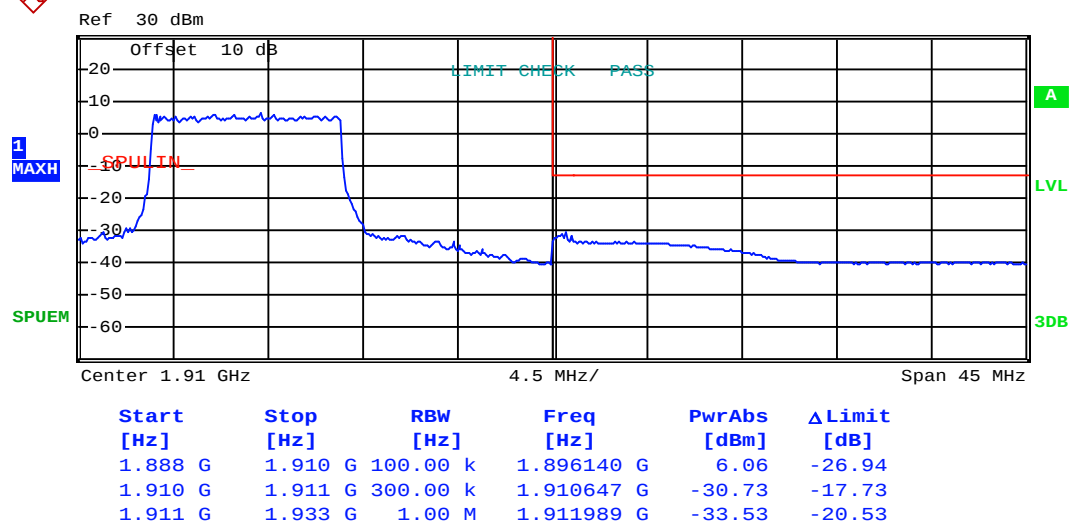
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 0)

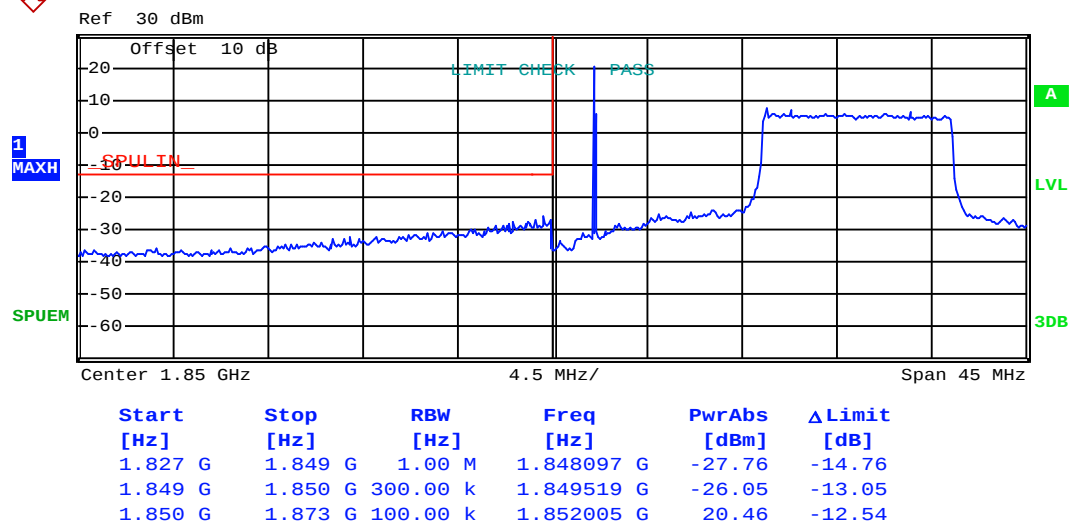


Lowest channel

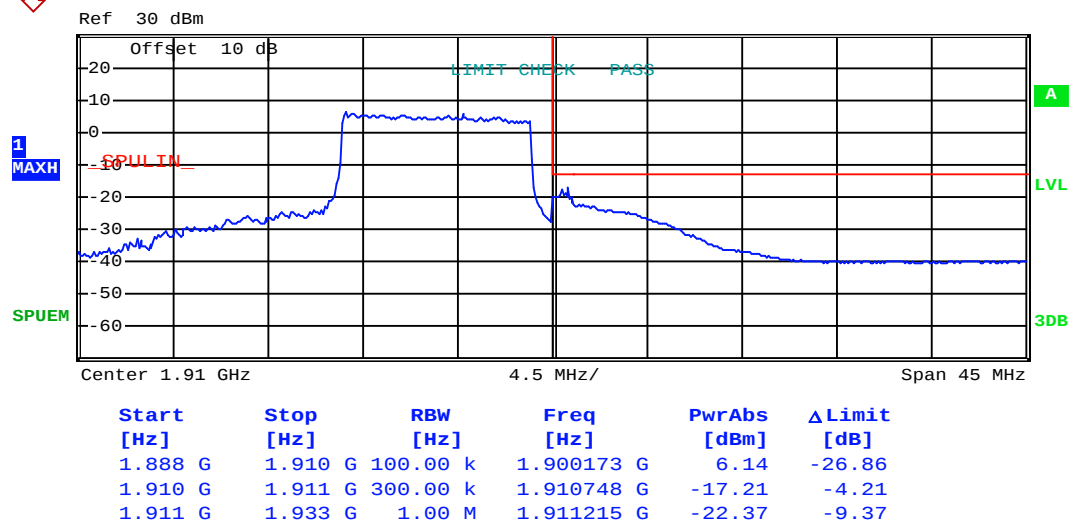


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 50 & RB Offset 49)
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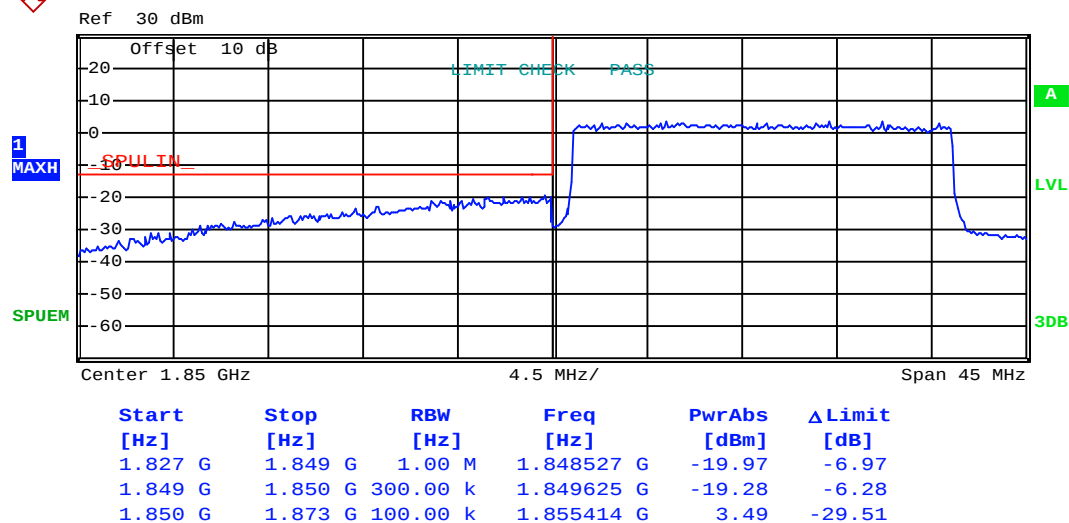


Lowest channel

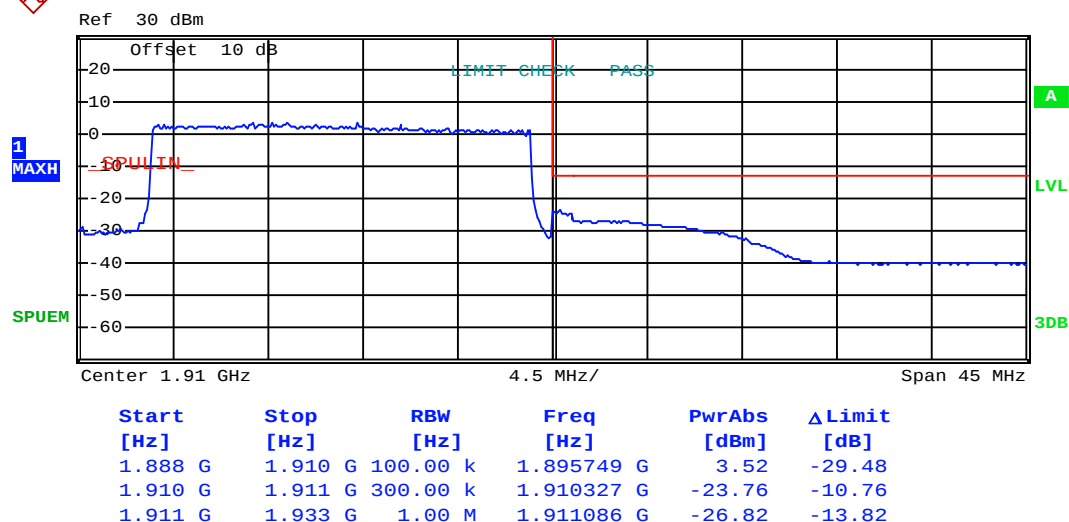


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 100 & RB Offset 0)
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Lowest channel

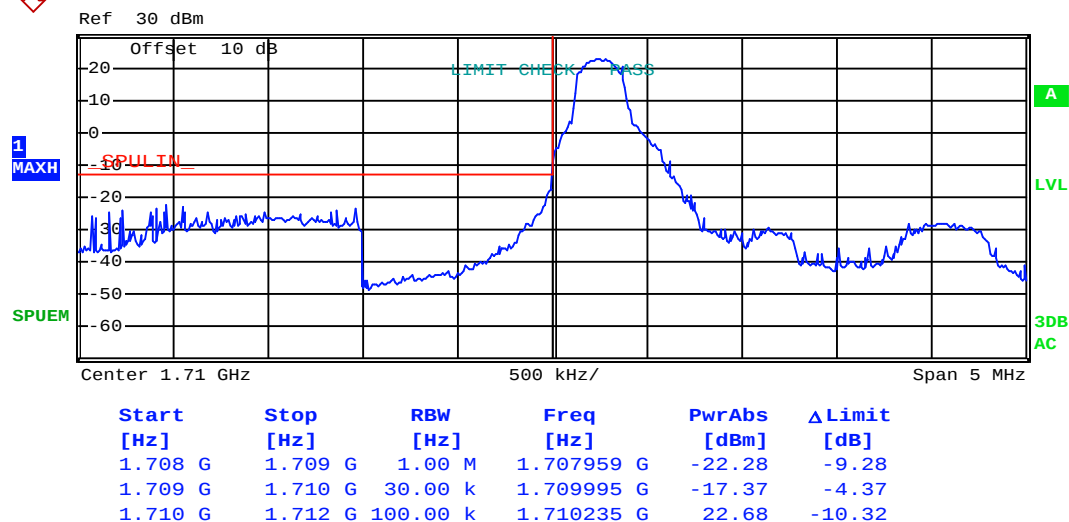


Highest channel

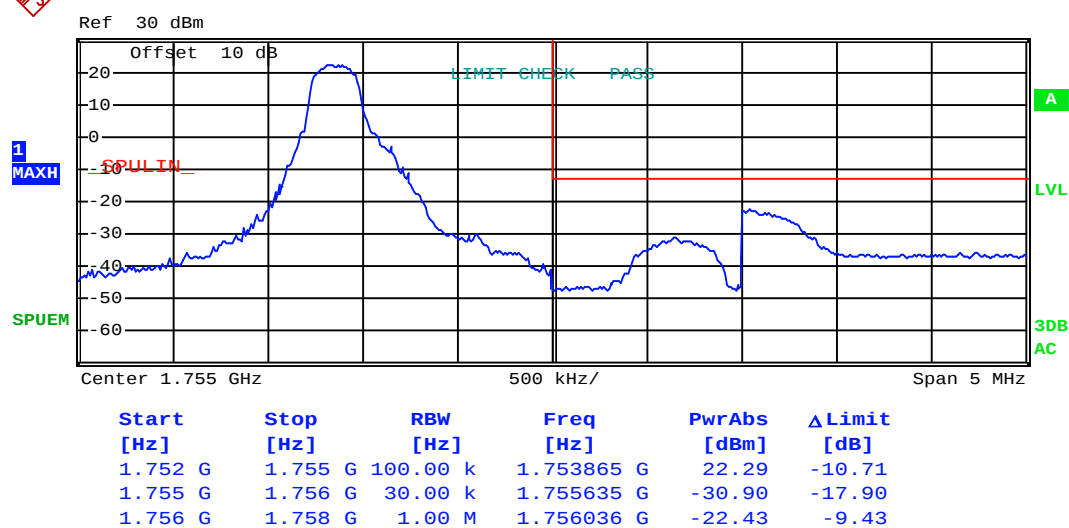
LTE band 4 part:

1.4MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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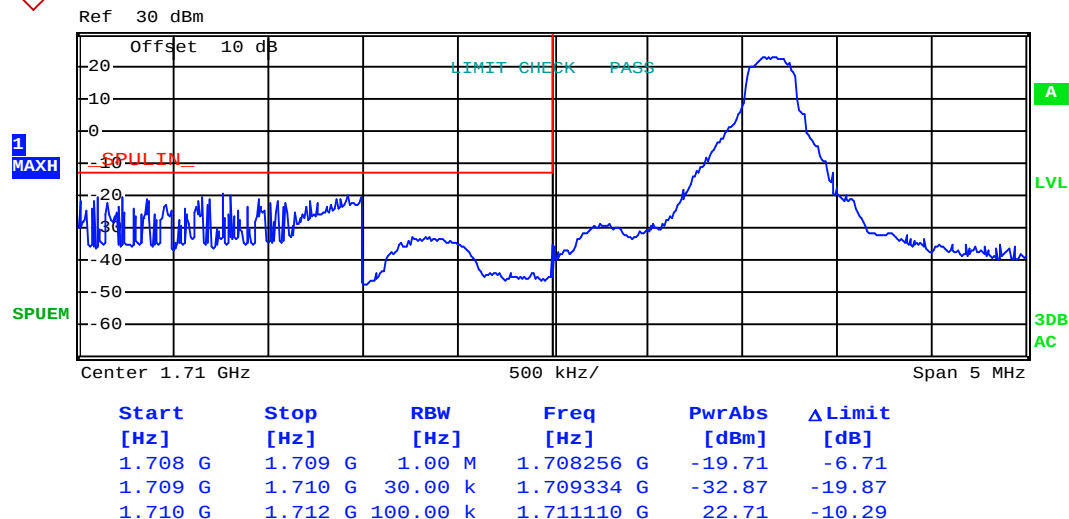
Lowest channel



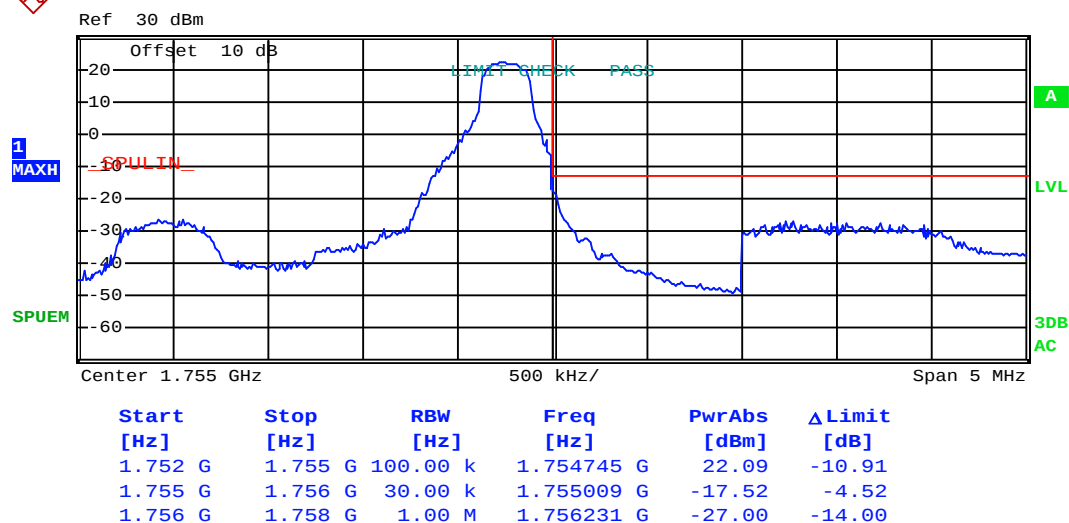
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 5)



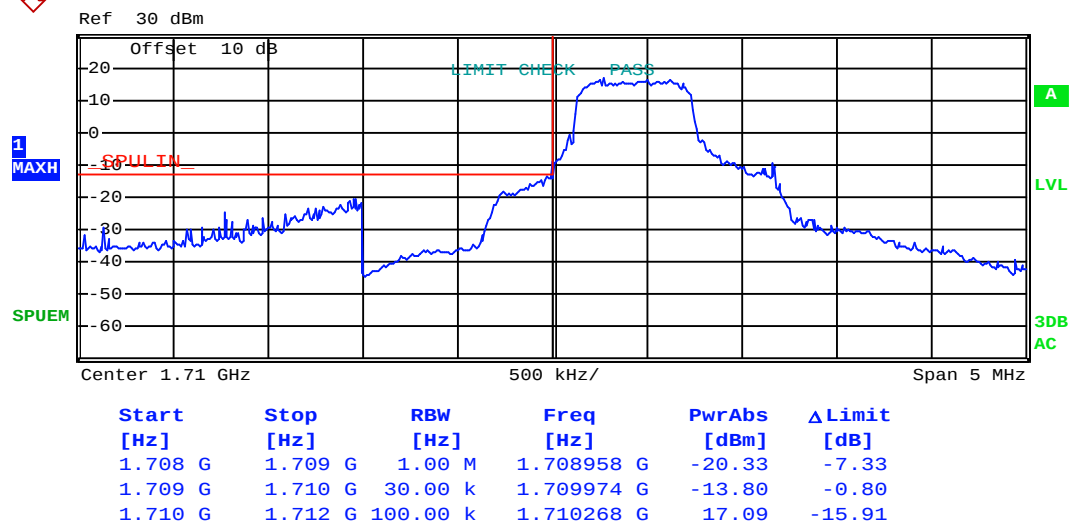
Lowest channel



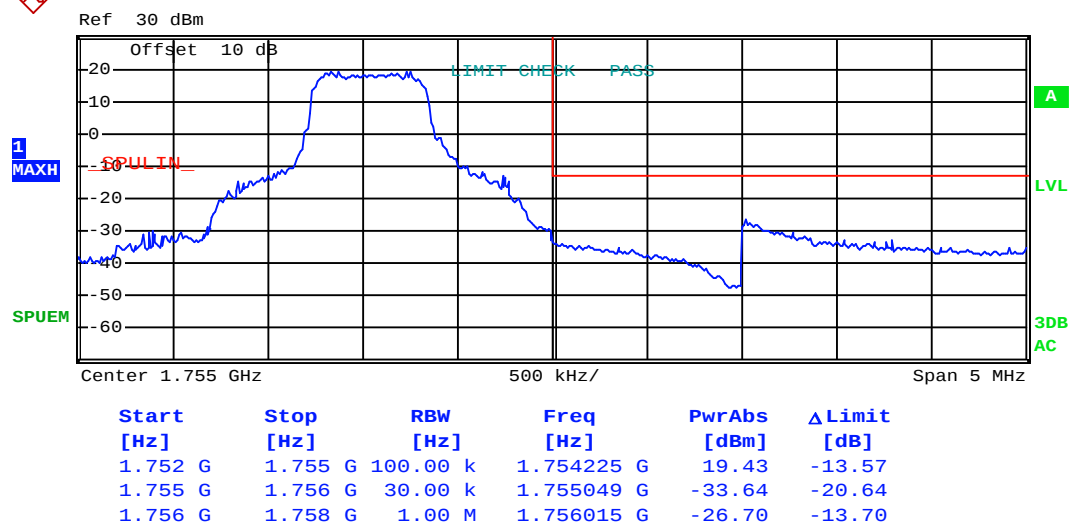
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 3 & RB Offset 0)



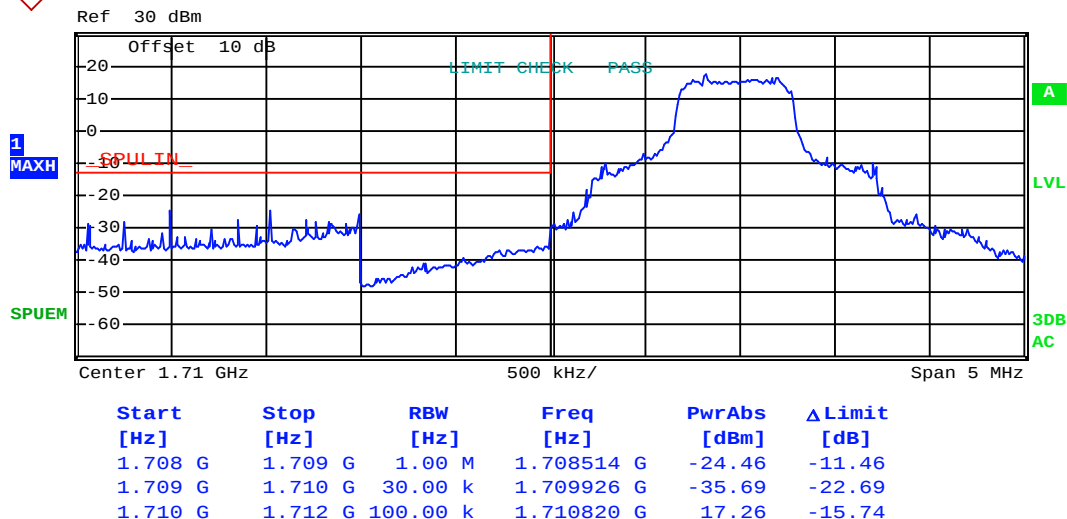
Lowest channel



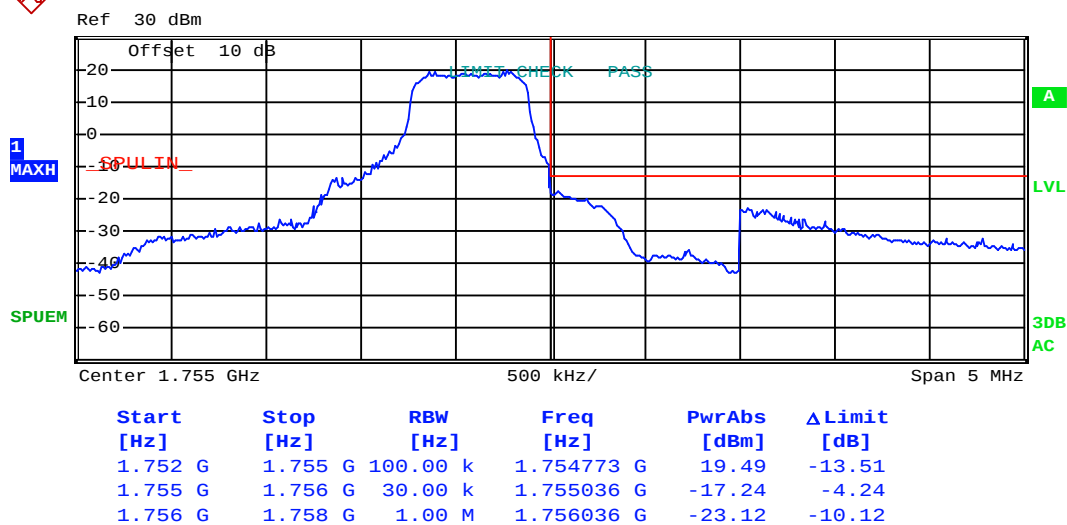
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 3 & RB Offset 2)



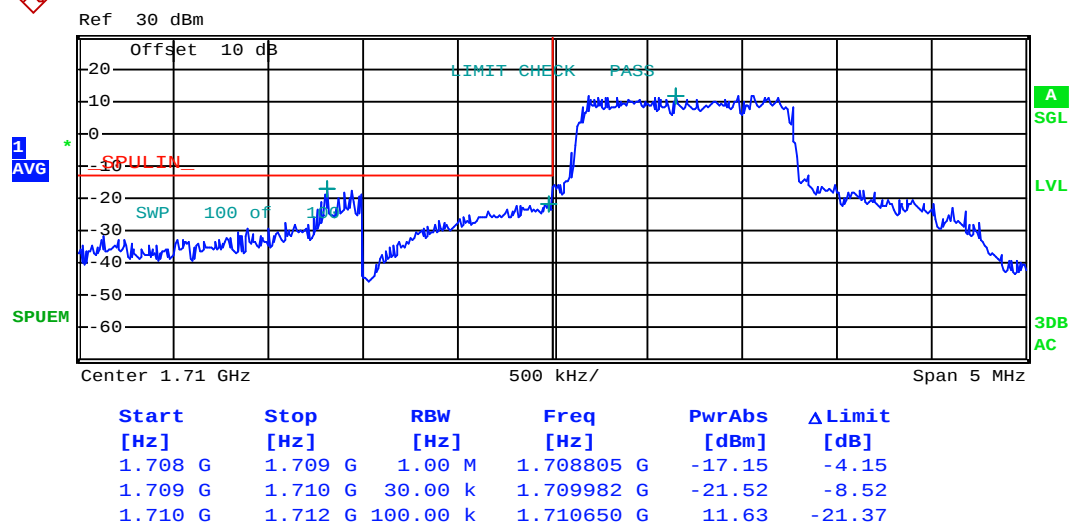
Lowest channel



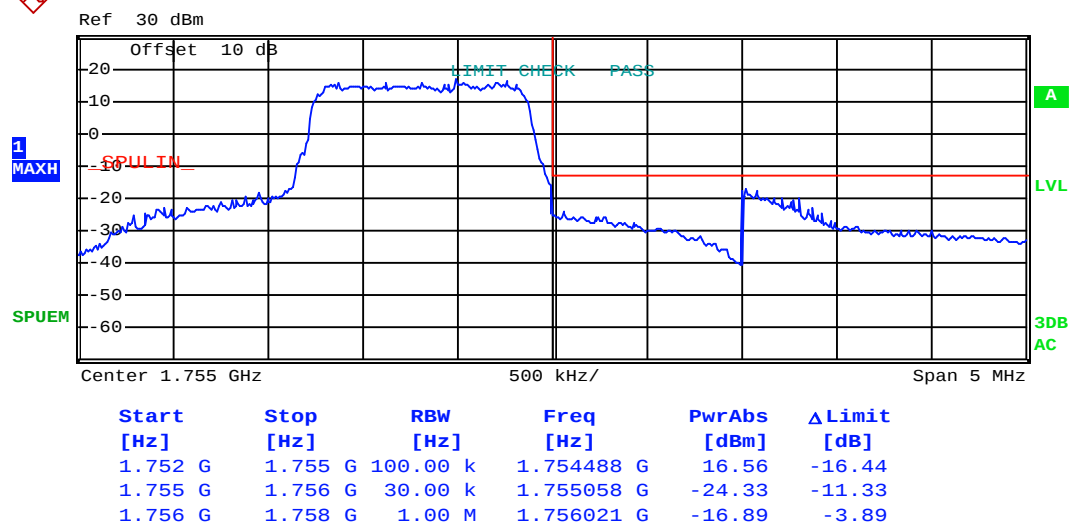
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 6 & RB Offset 0)



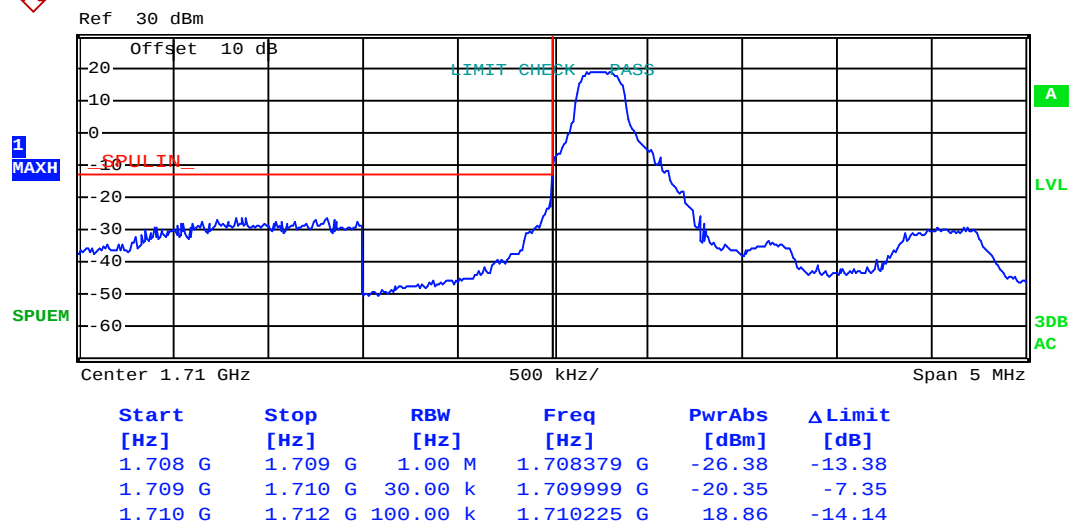
Lowest channel



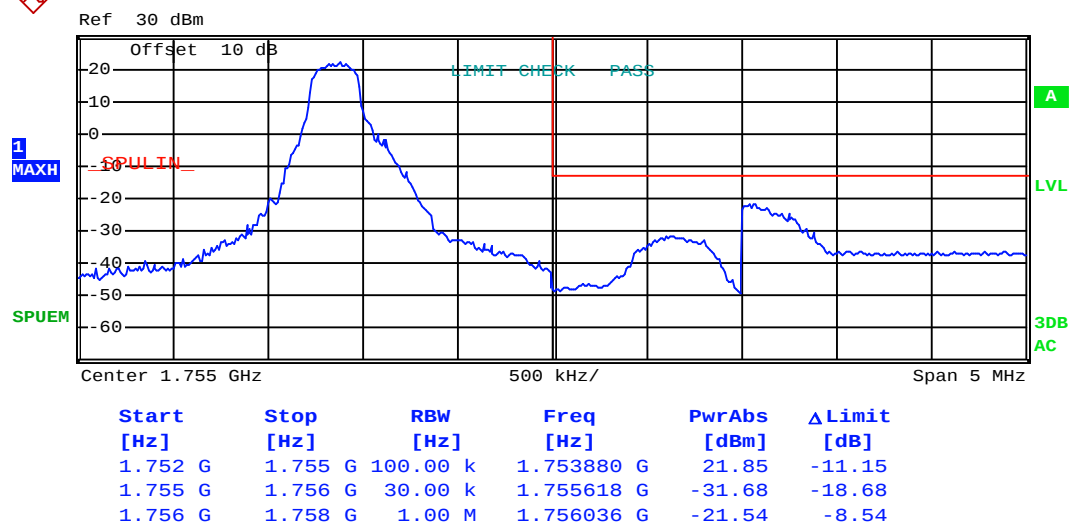
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 0)



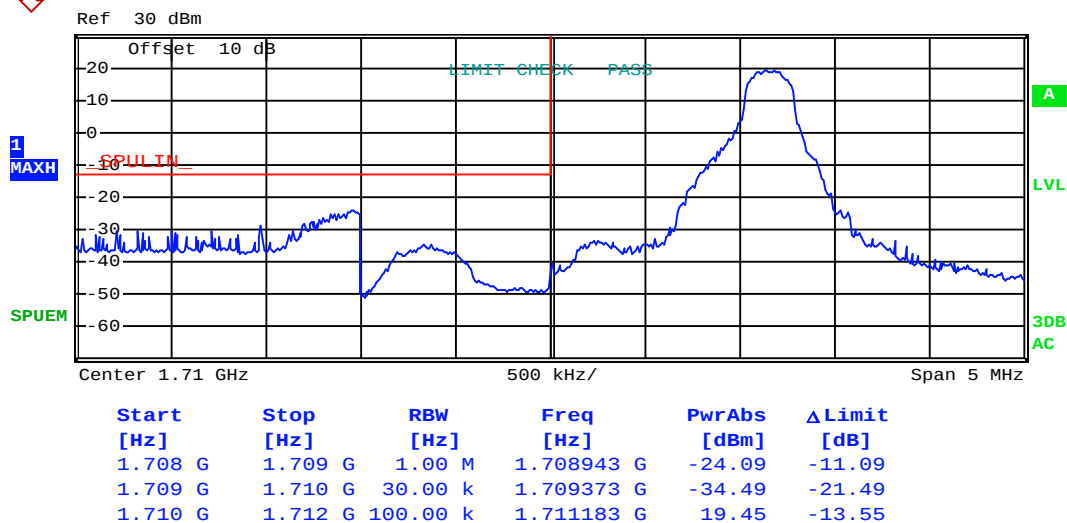
Lowest channel



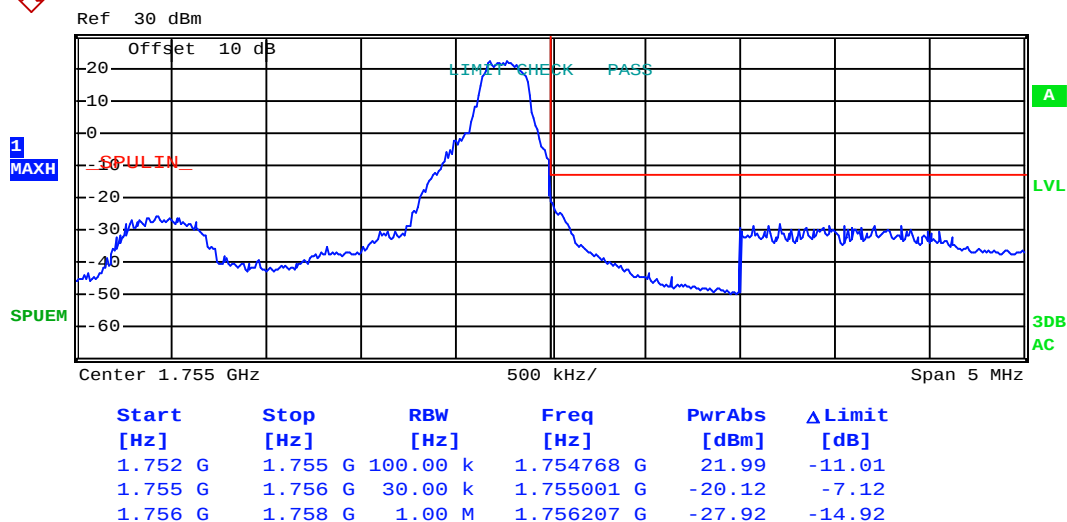
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 5)



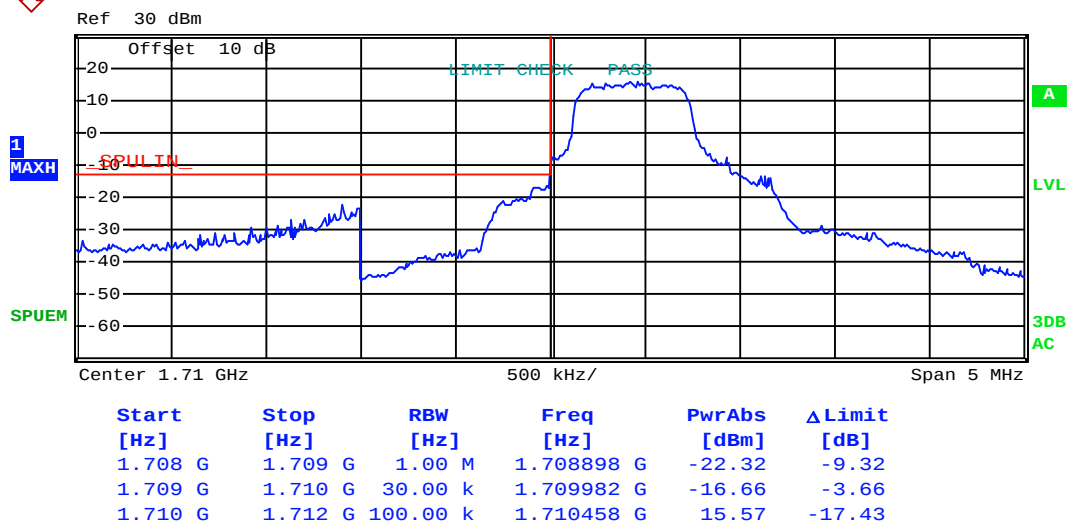
Lowest channel



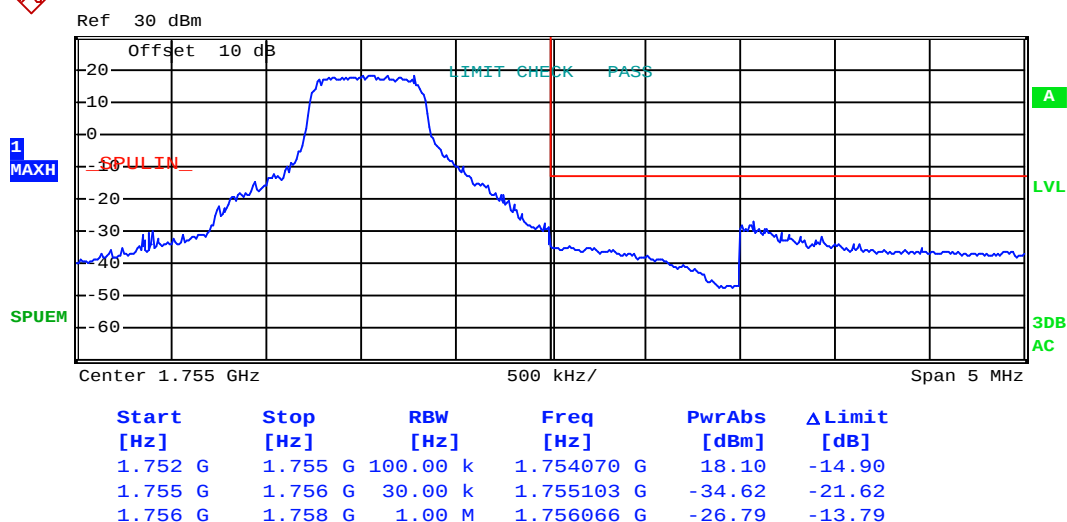
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 3 & RB Offset 0)



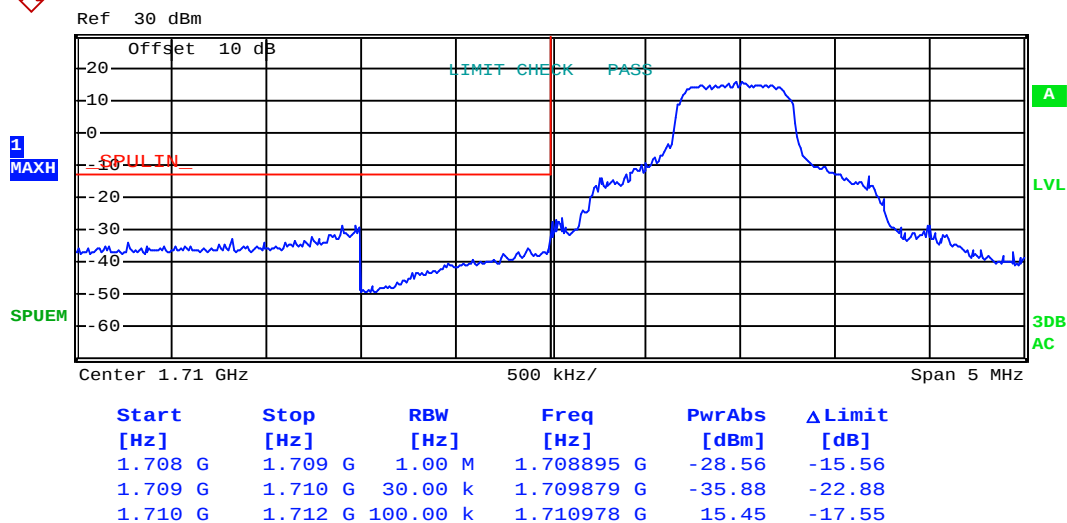
Lowest channel



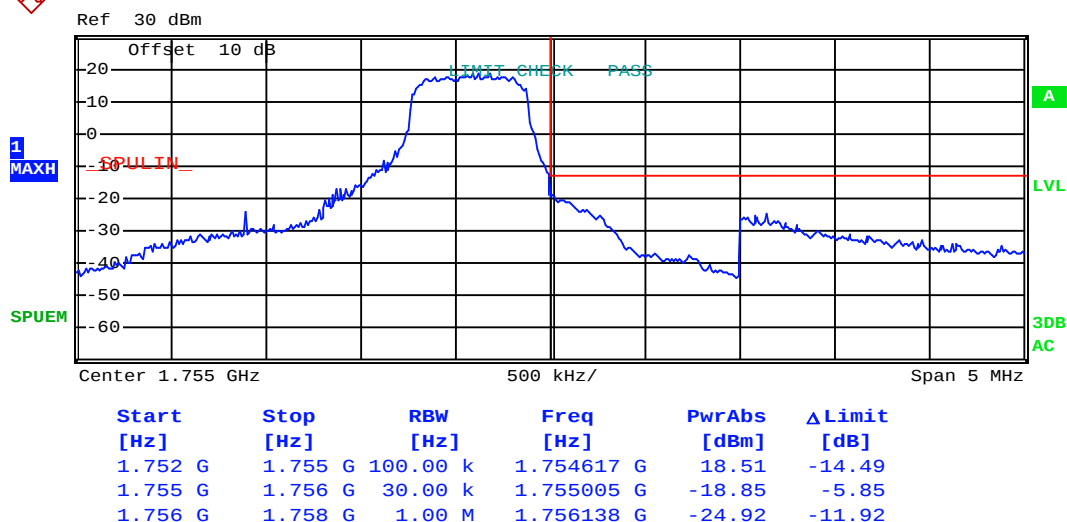
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 3 & RB Offset 2)



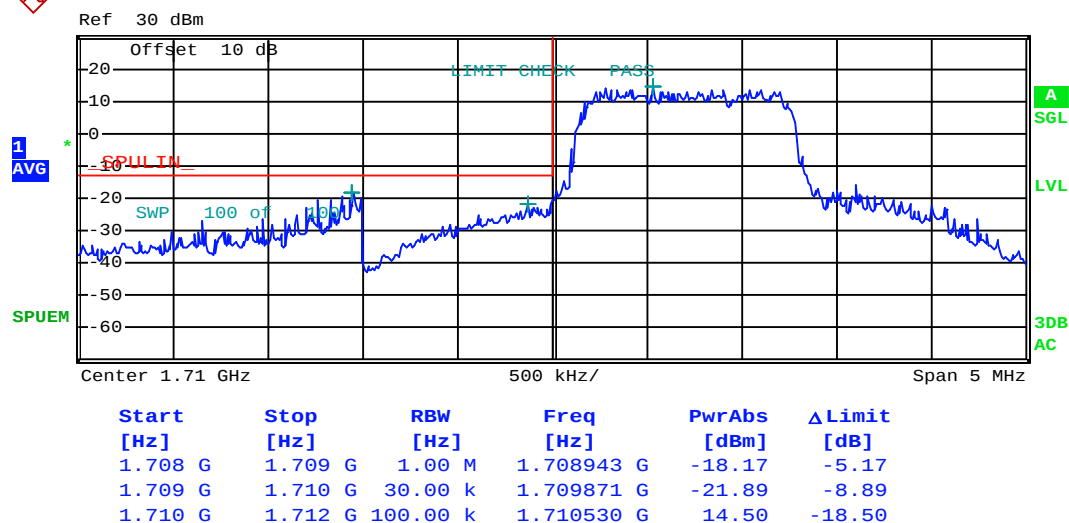
Lowest channel



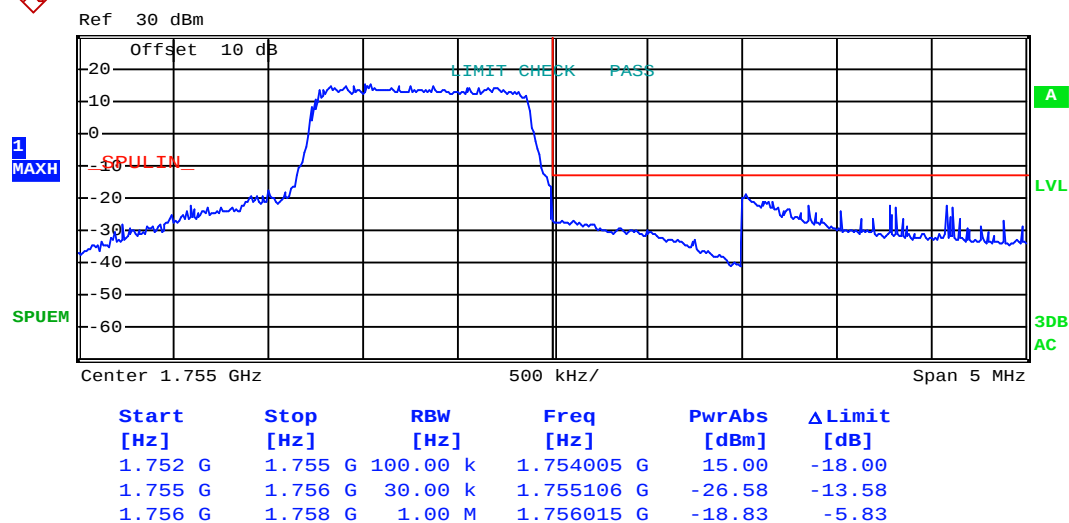
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 6 & RB Offset 0)



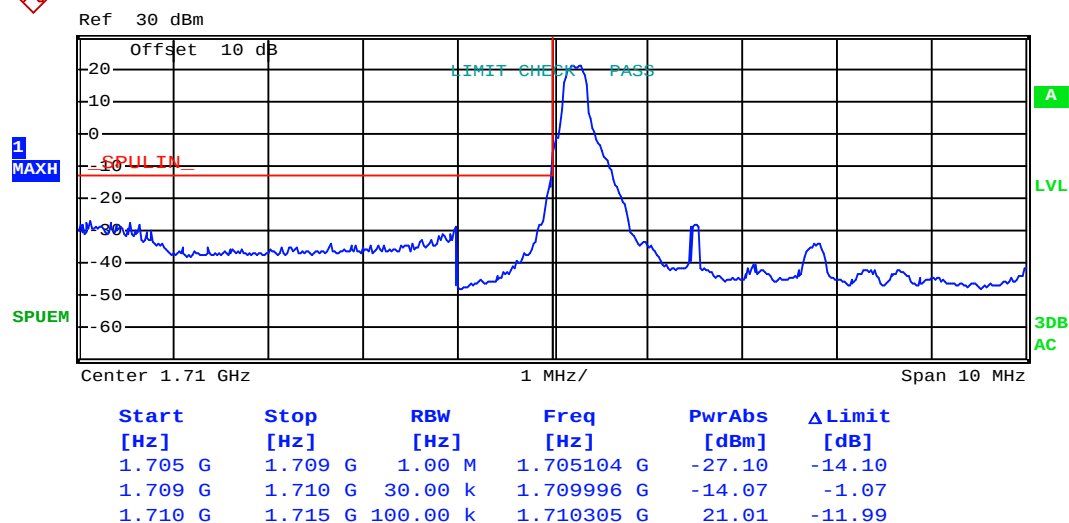
Lowest channel



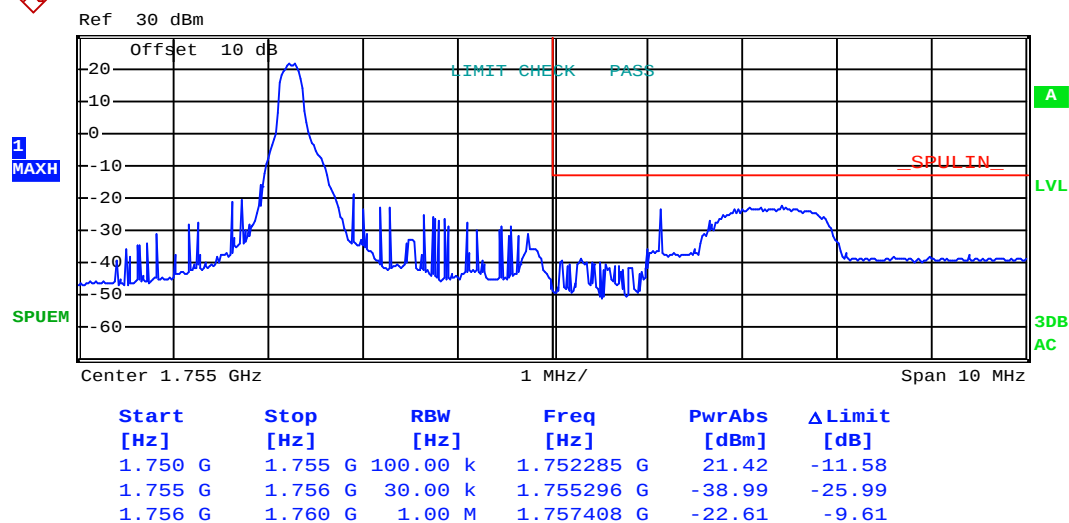
Highest channel

3MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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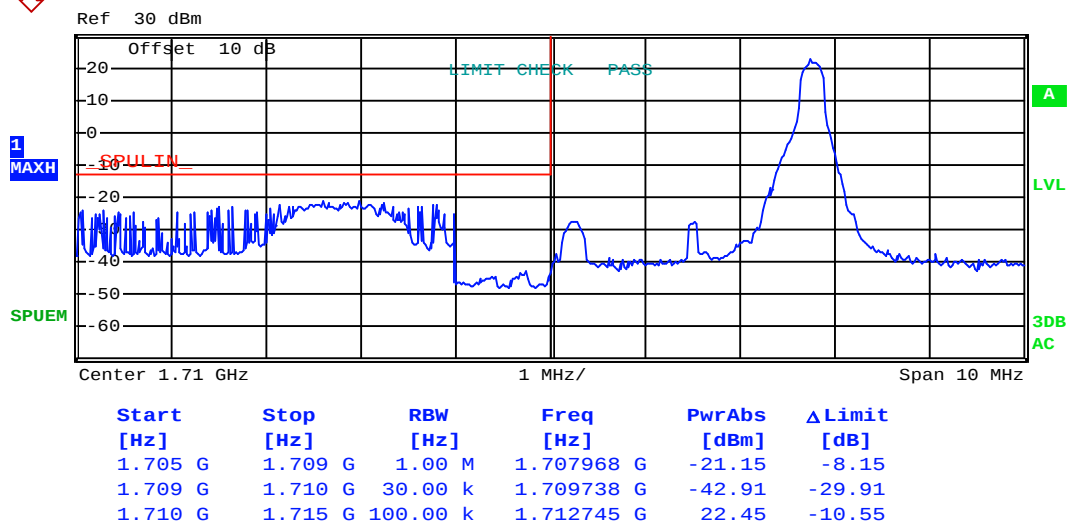
Lowest channel



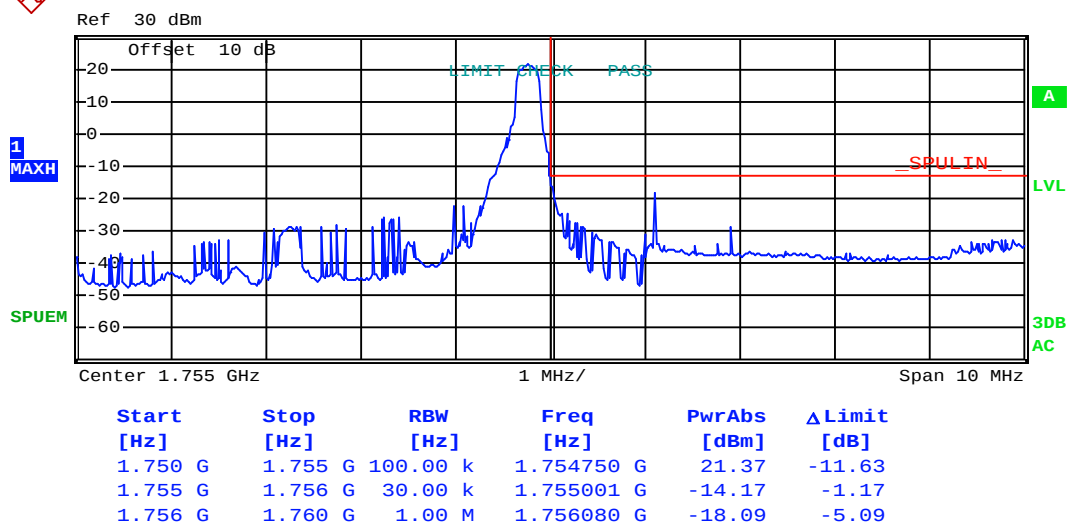
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 14)



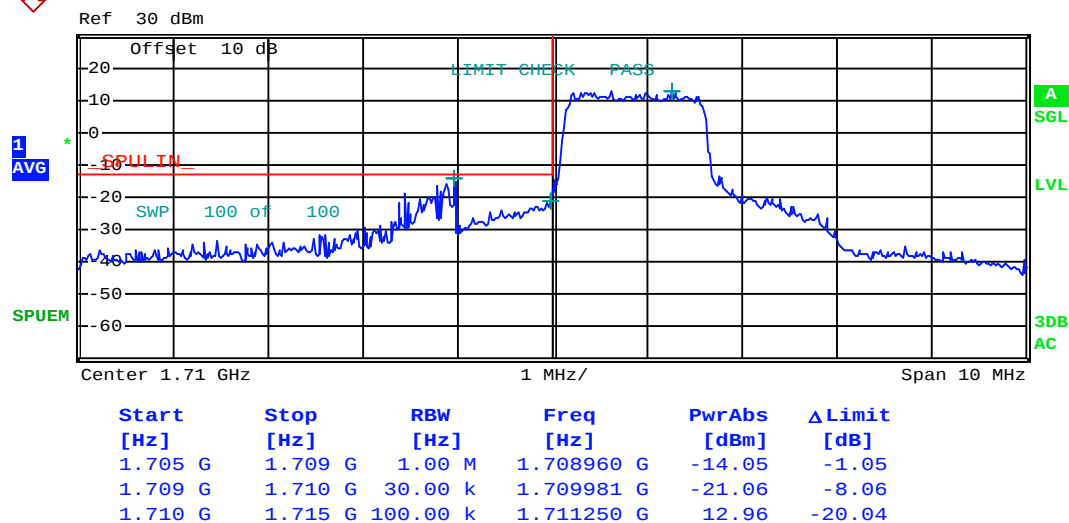
Lowest channel



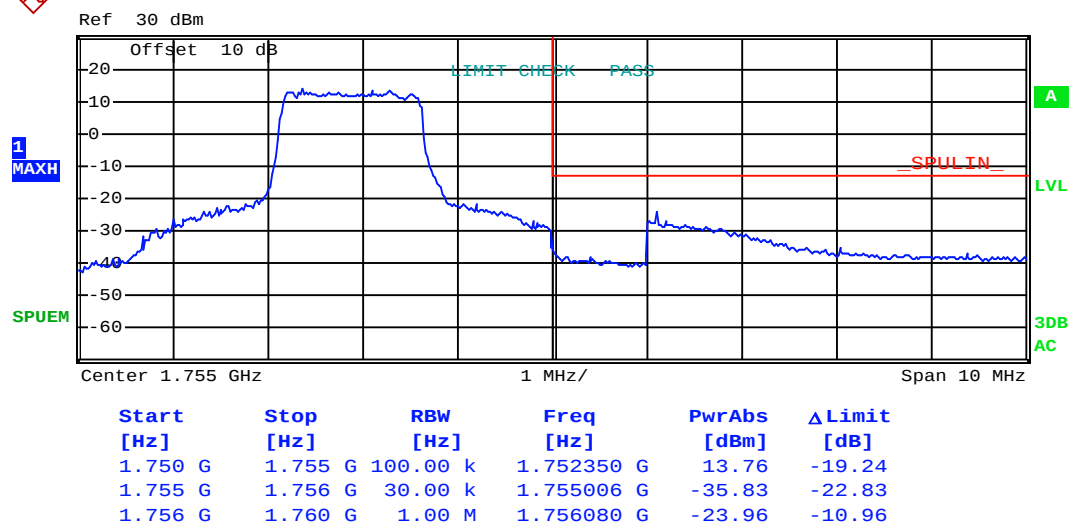
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 8 & RB Offset 0)

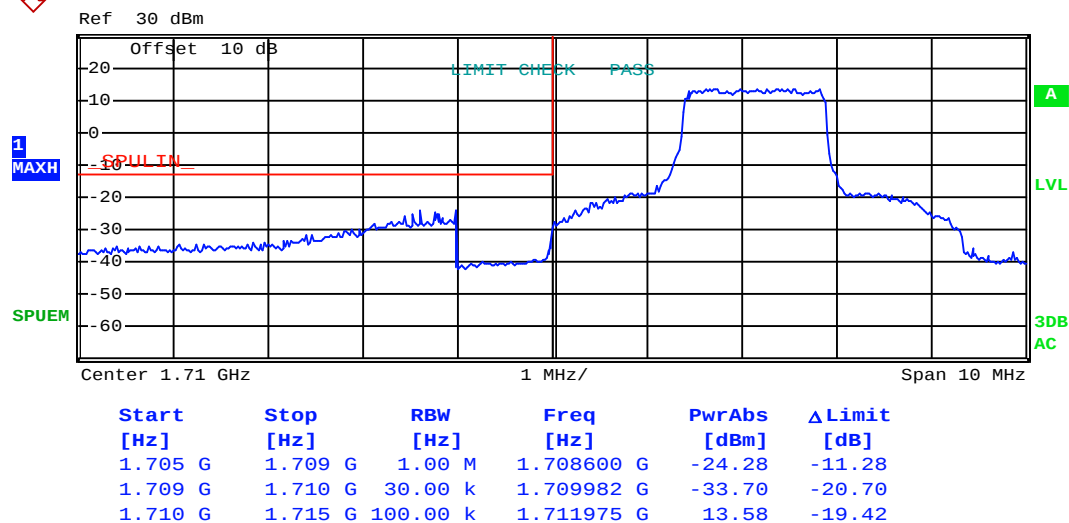


Lowest channel

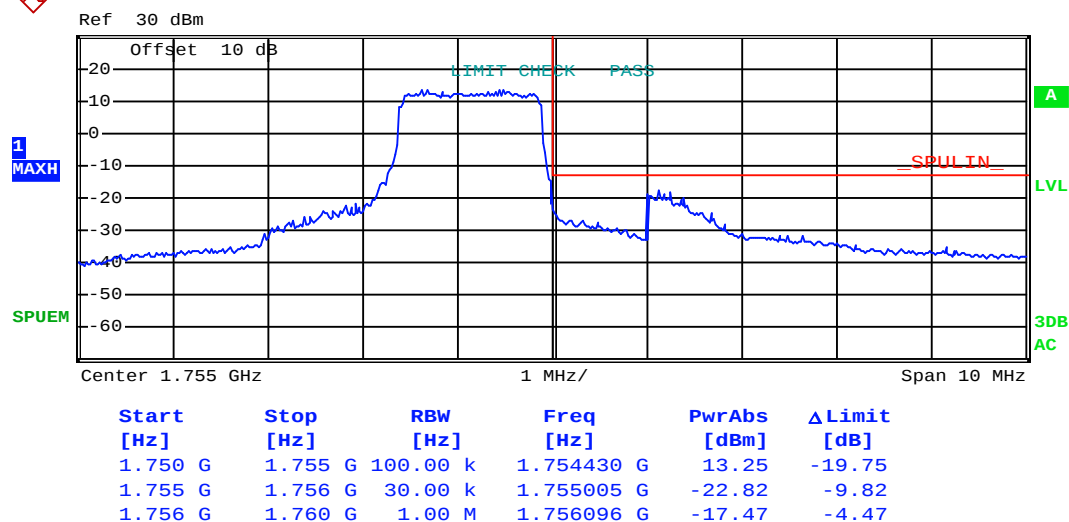


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 8 & RB Offset 7)
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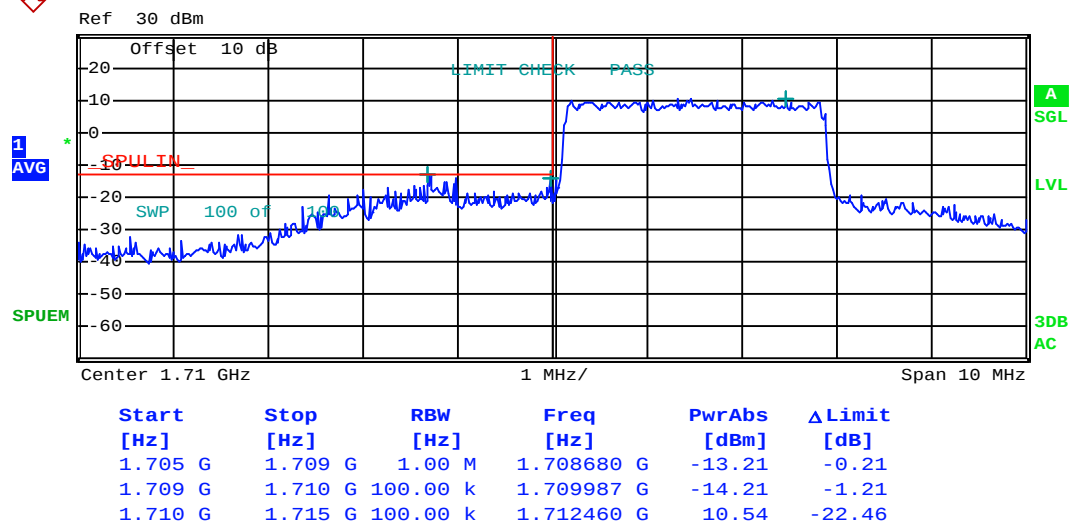


Lowest channel

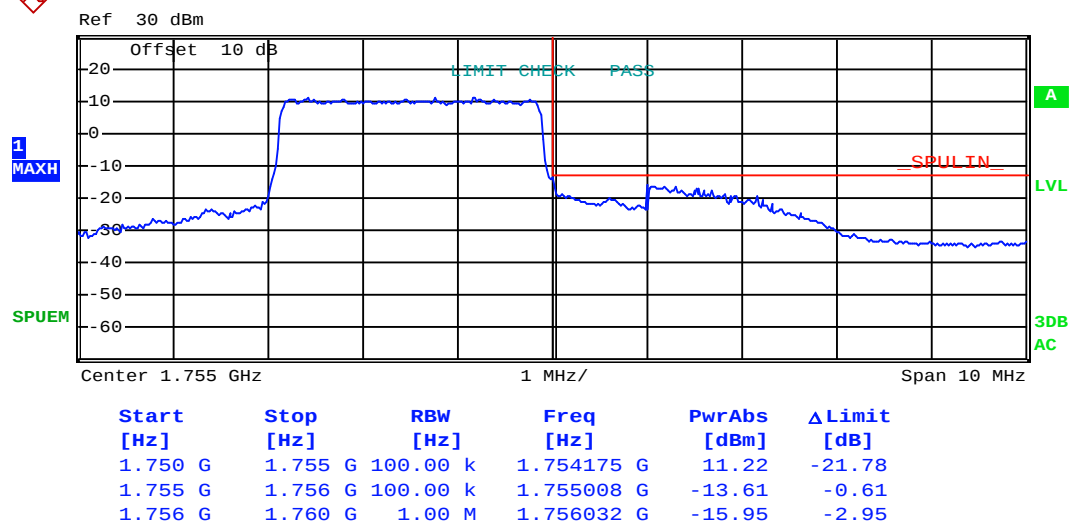


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 15 & RB Offset 0)
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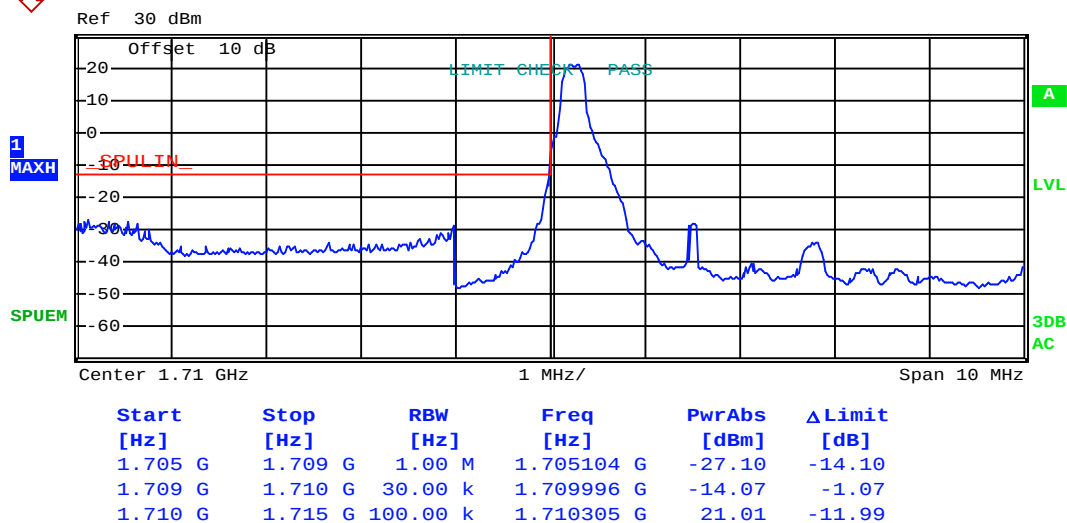
Lowest channel



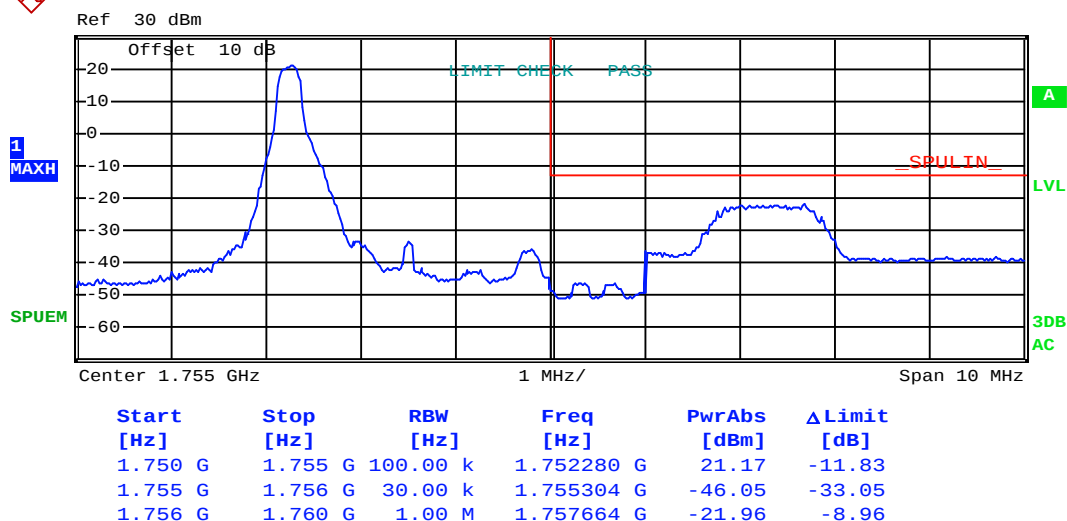
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 0)

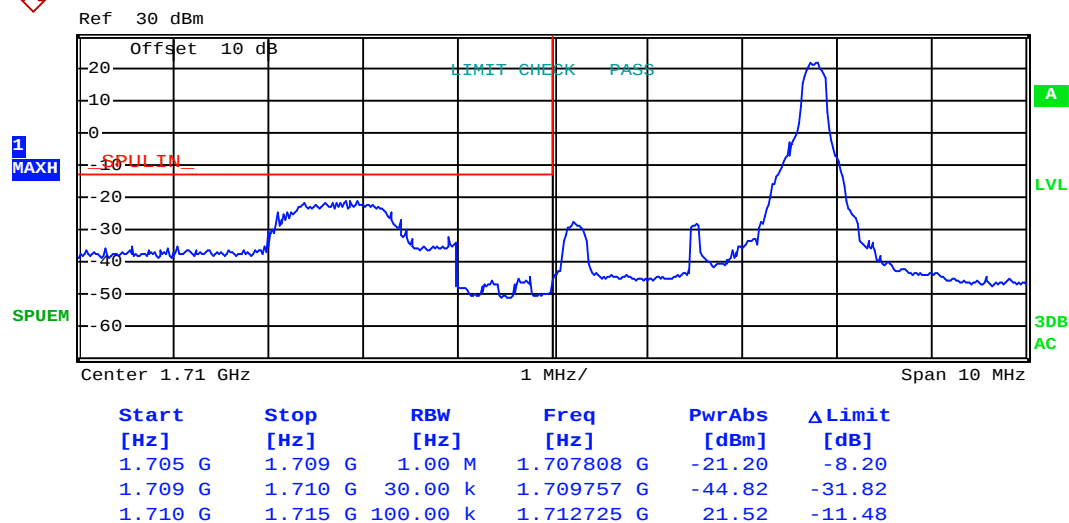


Lowest channel

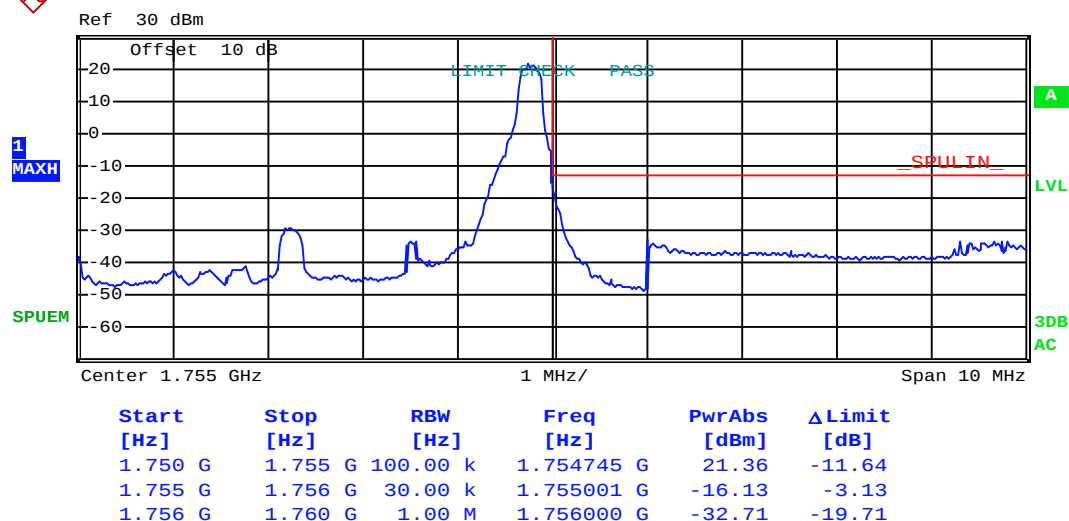


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 14)
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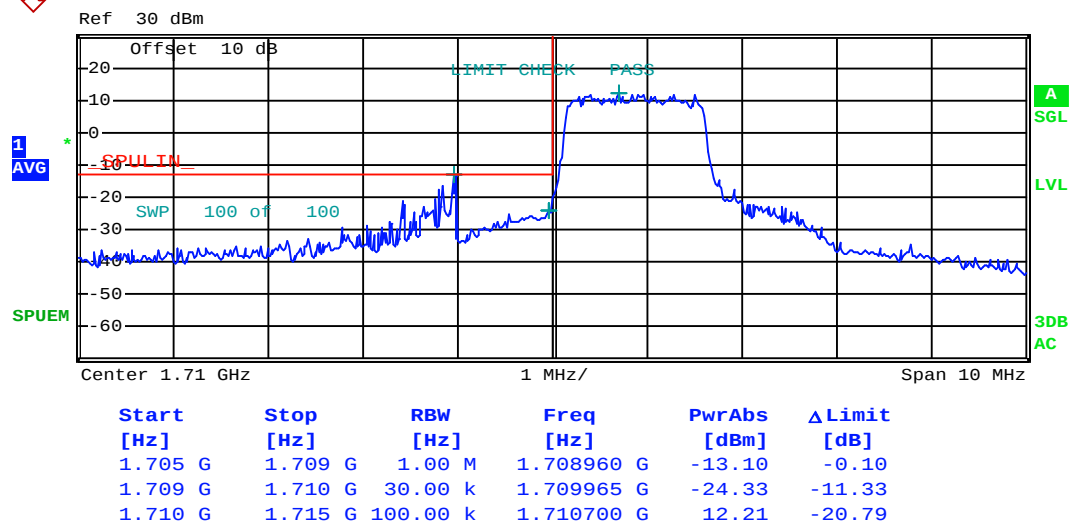
Lowest channel



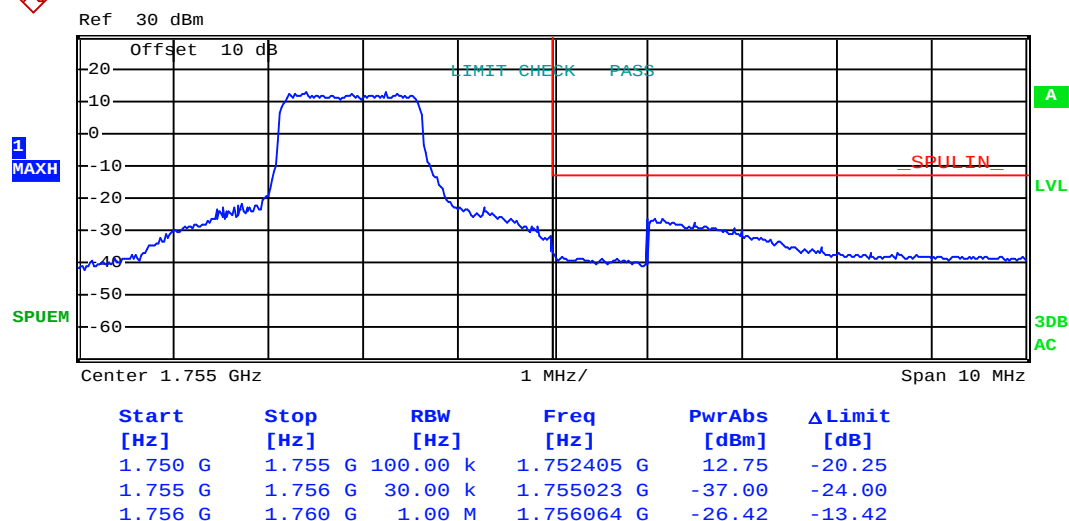
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 8 & RB Offset 0)



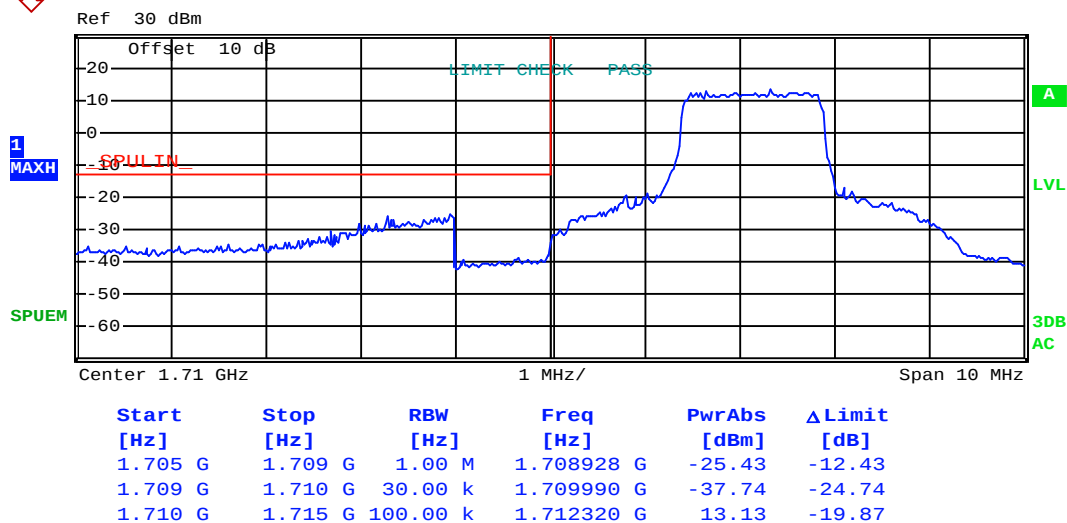
Lowest channel



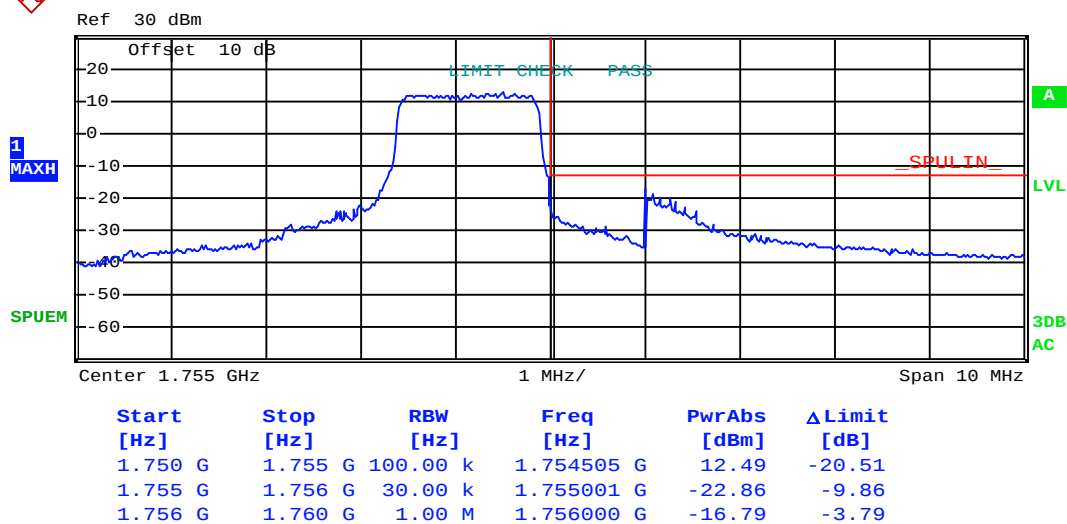
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 8 & RB Offset 7)

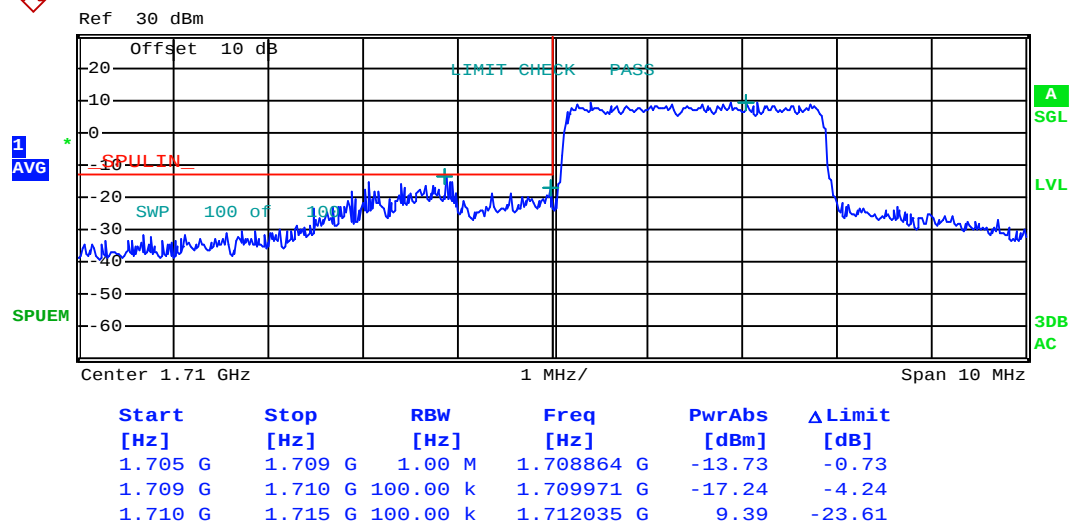


Lowest channel

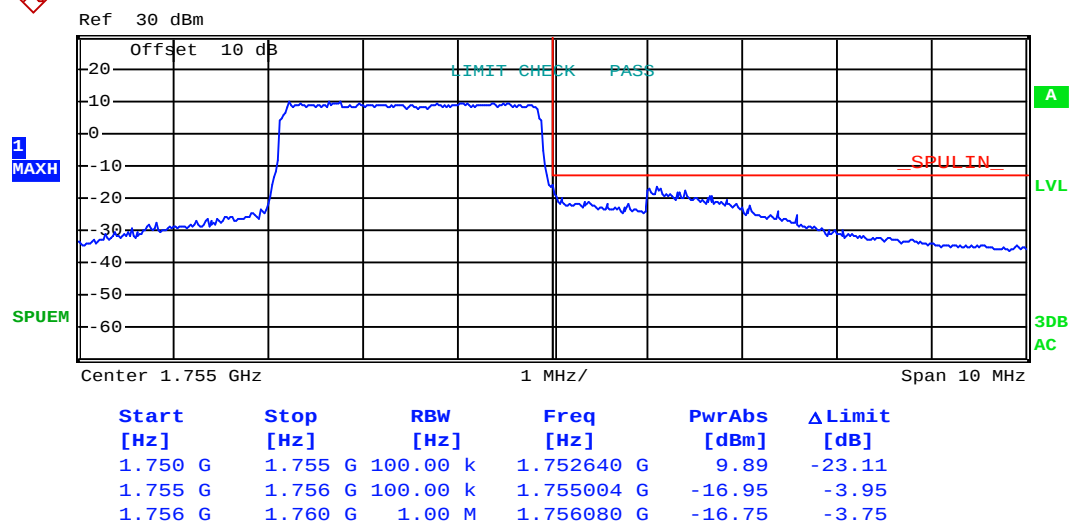


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 15 & RB Offset 0)
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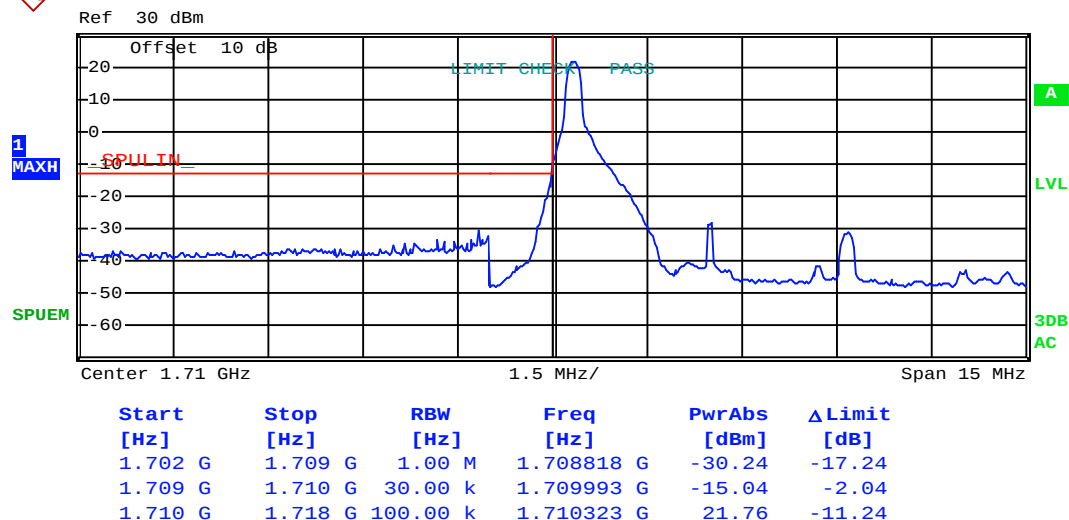
Lowest channel



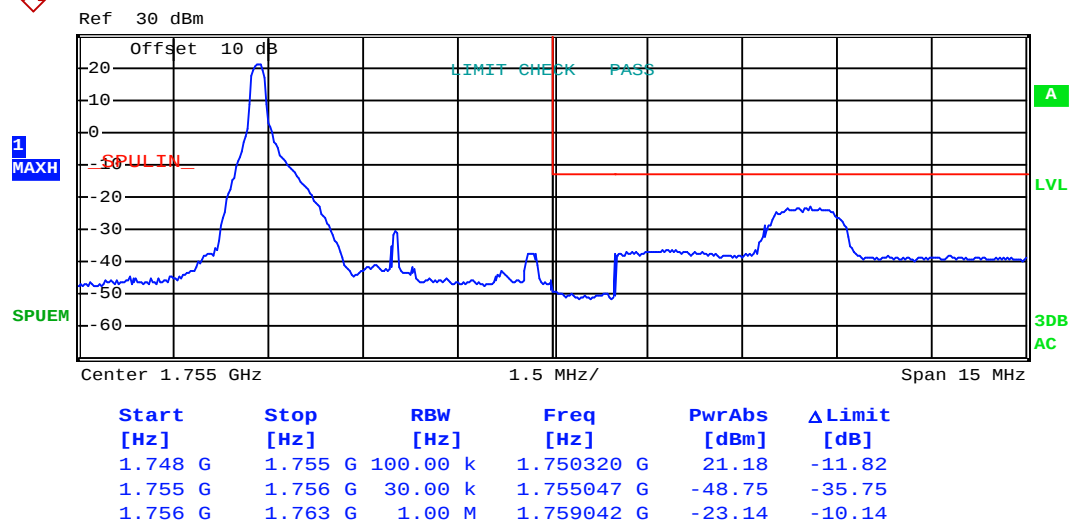
Highest channel

5MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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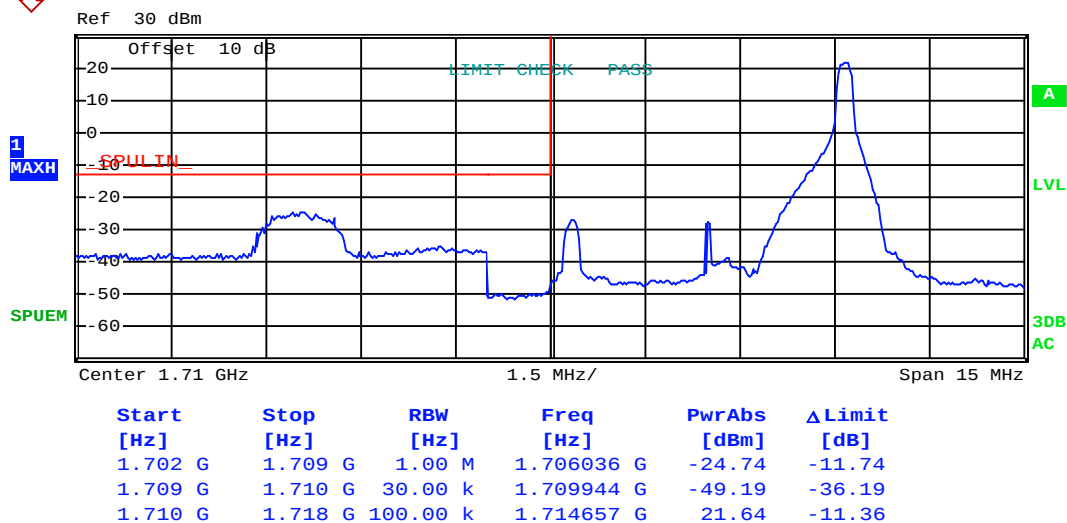
Lowest channel



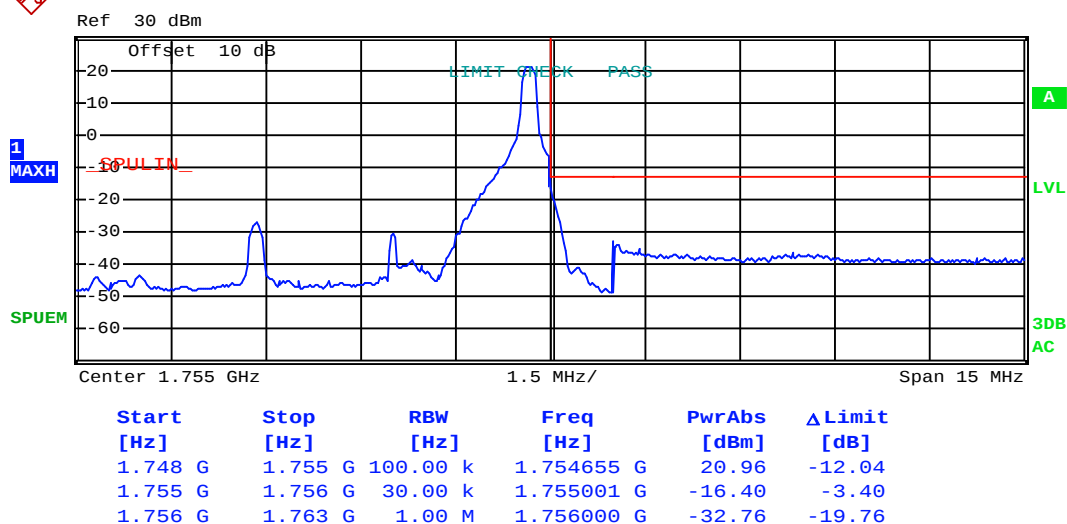
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 24)



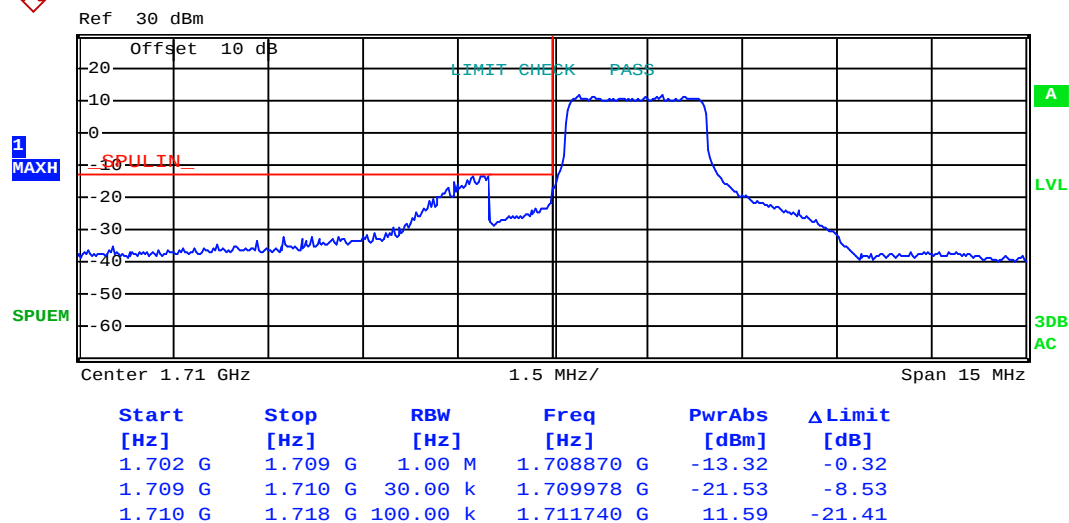
Lowest channel



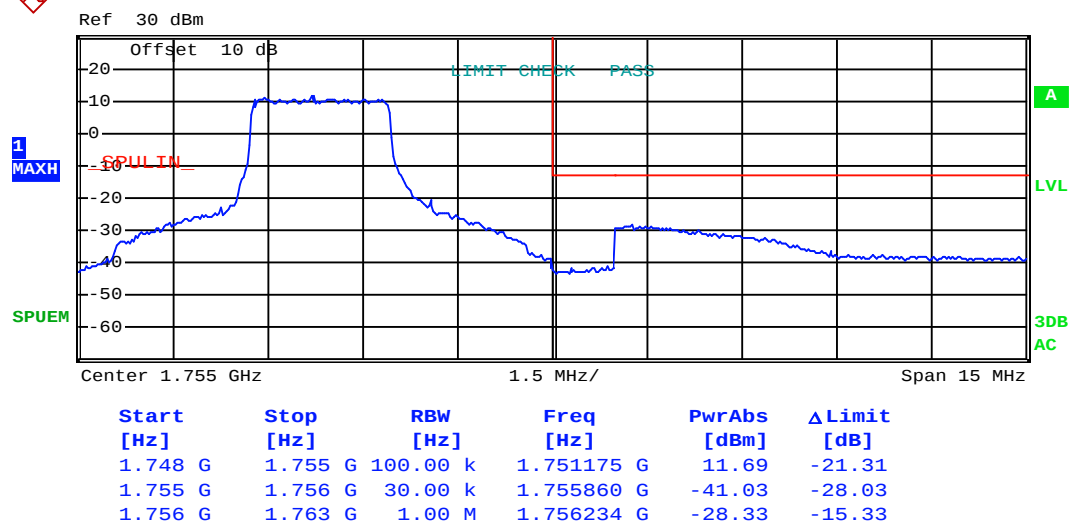
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 12 & RB Offset 0)



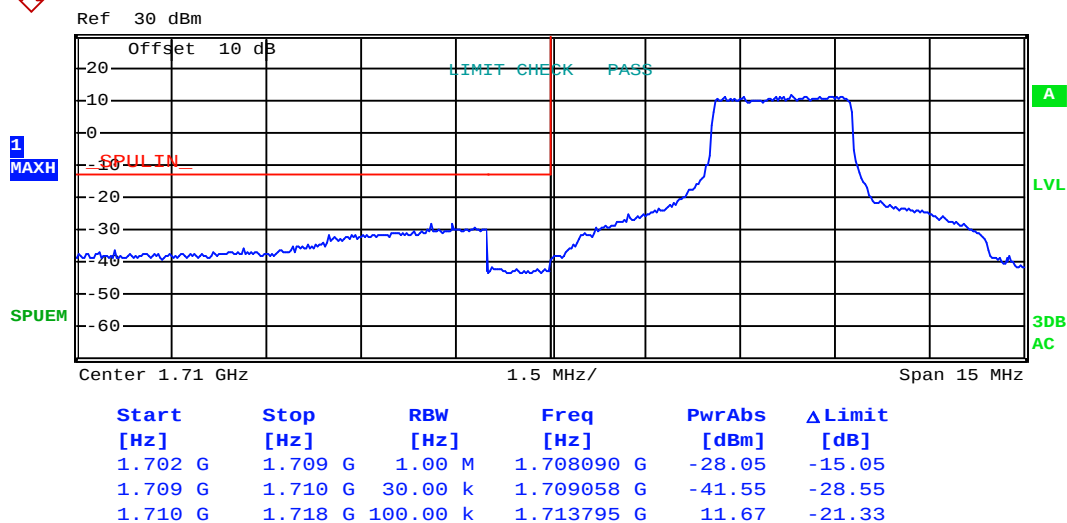
Lowest channel



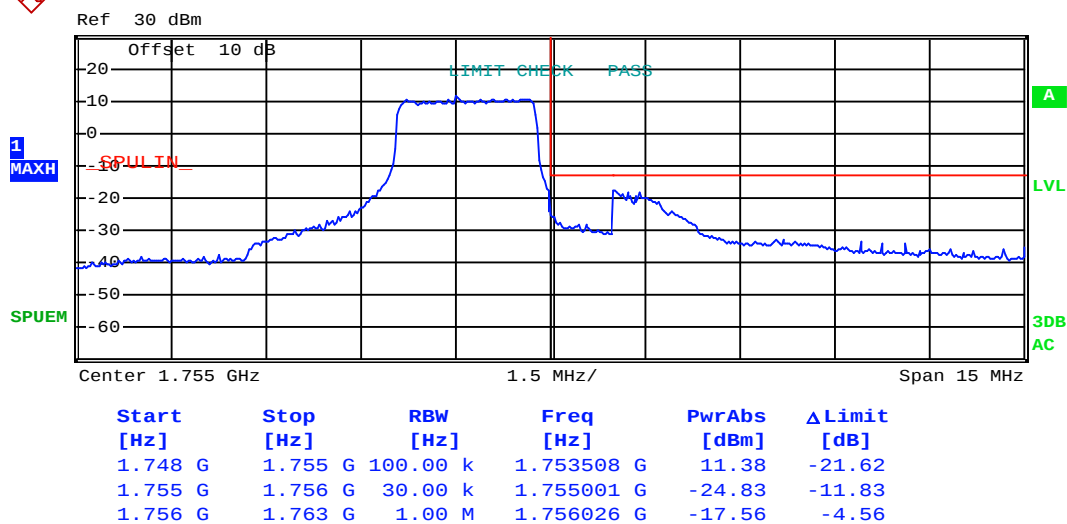
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 12 & RB Offset 11)



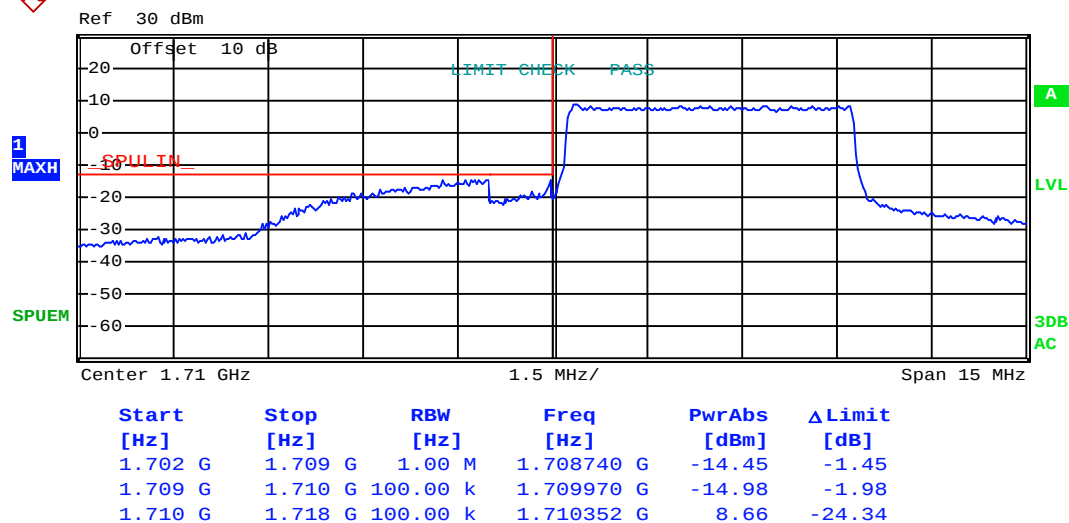
Lowest channel



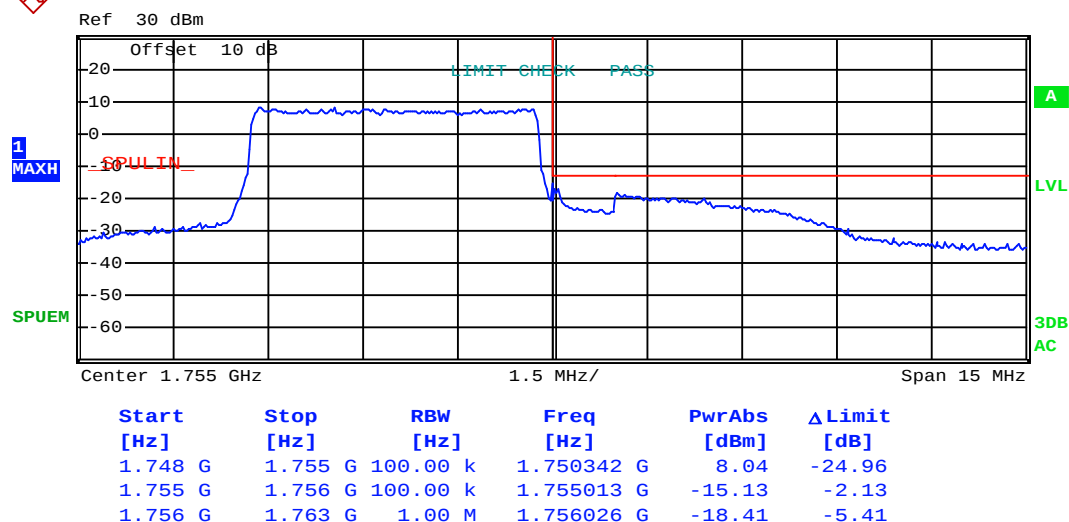
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 0)



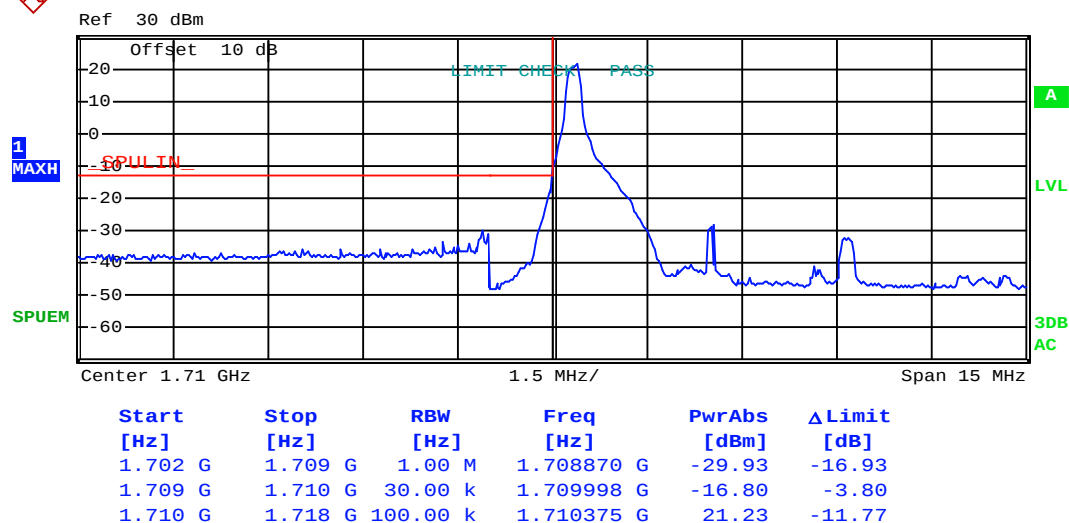
Lowest channel



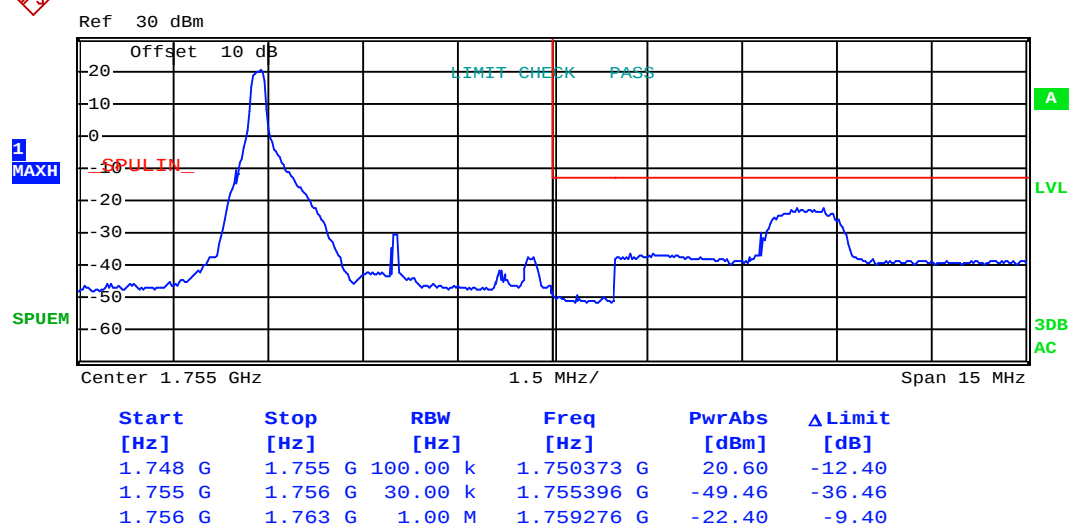
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 0)

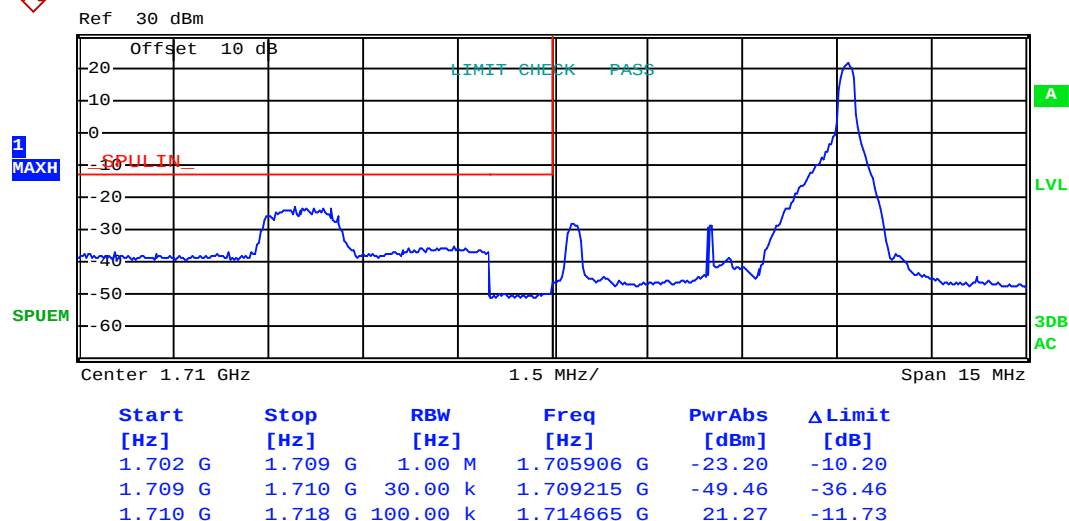


Lowest channel

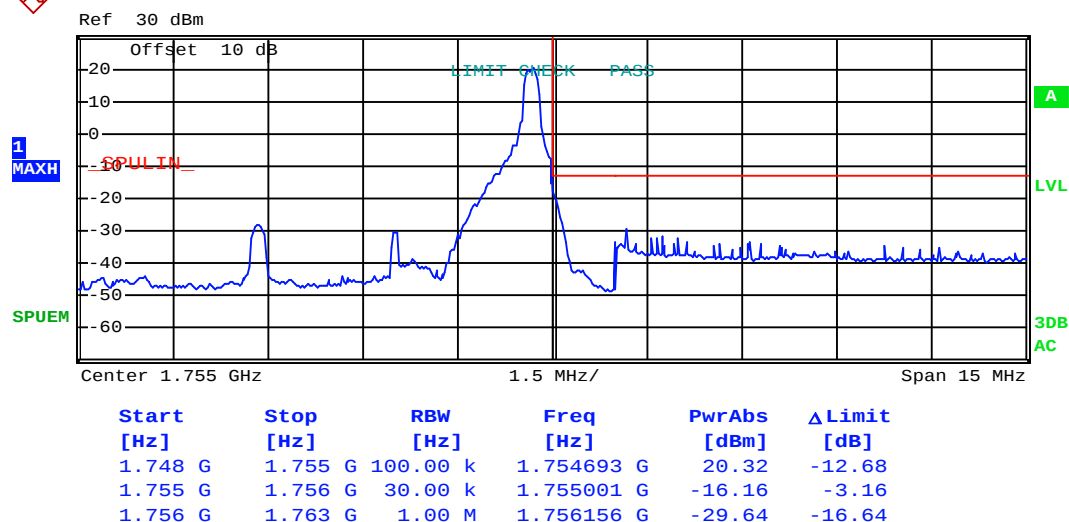


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 24)
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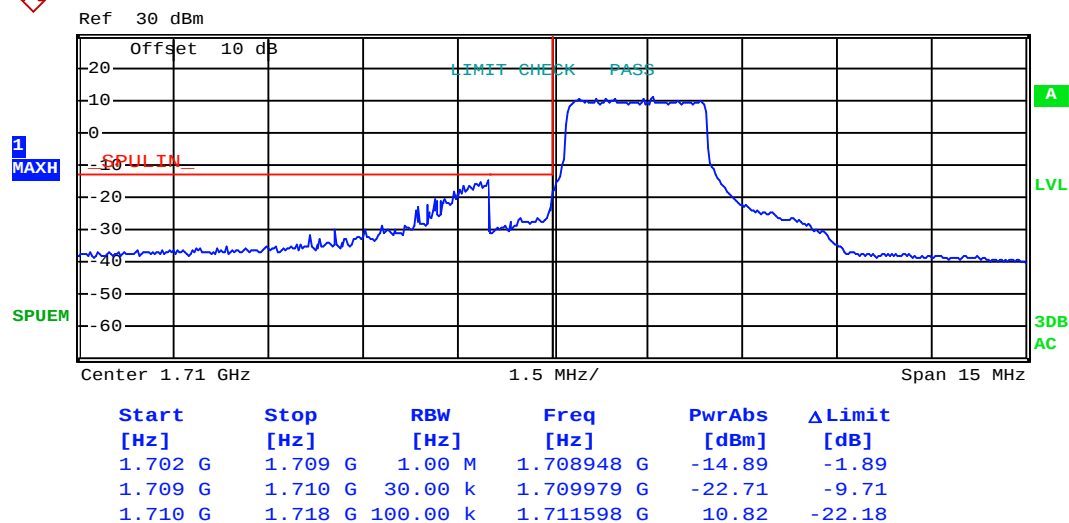
Lowest channel



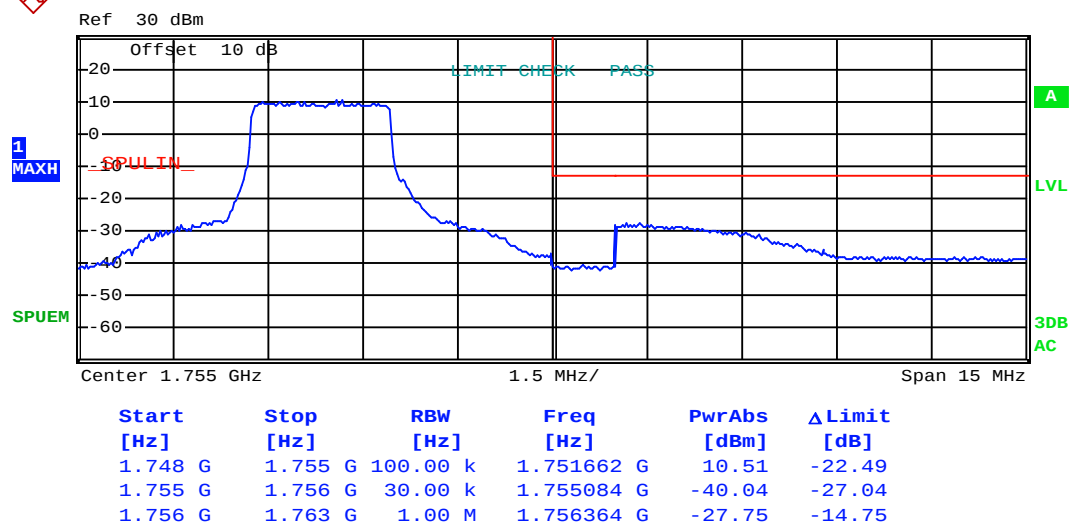
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 12 & RB Offset 0)

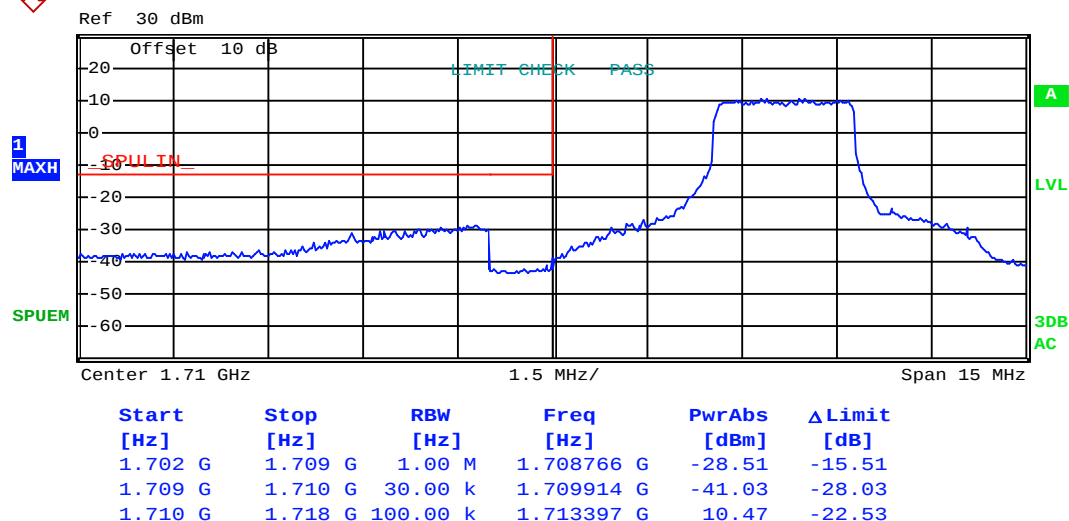


Lowest channel

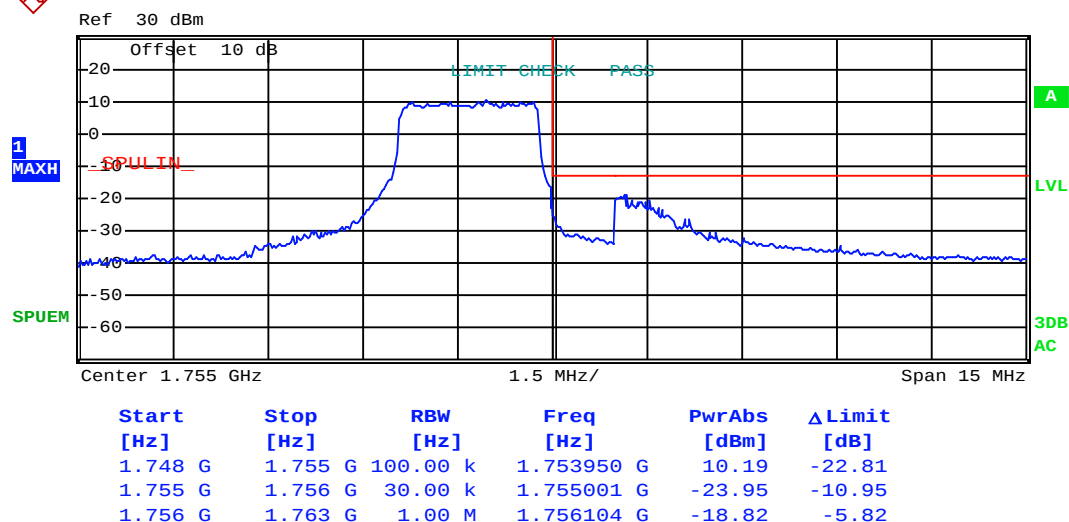


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 12 & RB Offset 11)
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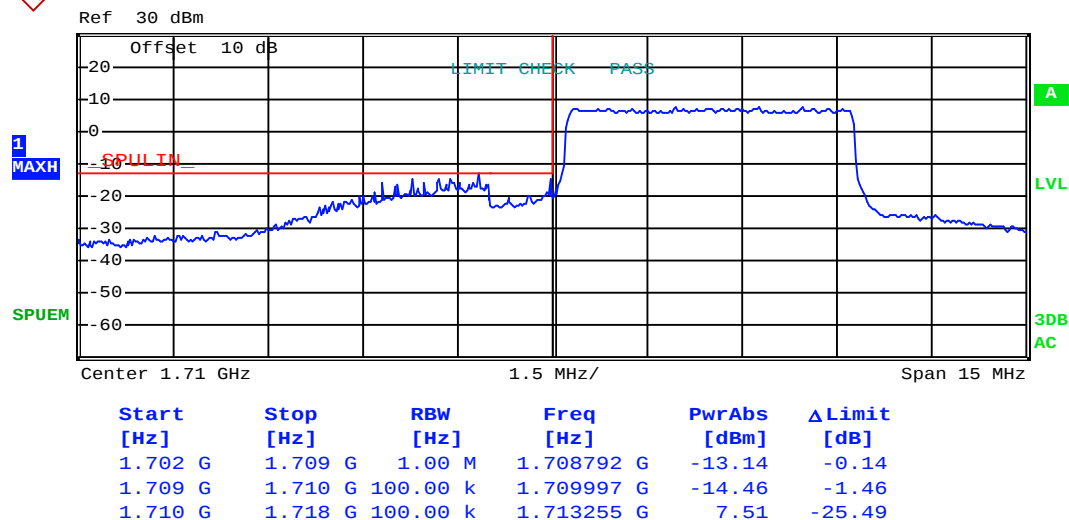
Lowest channel



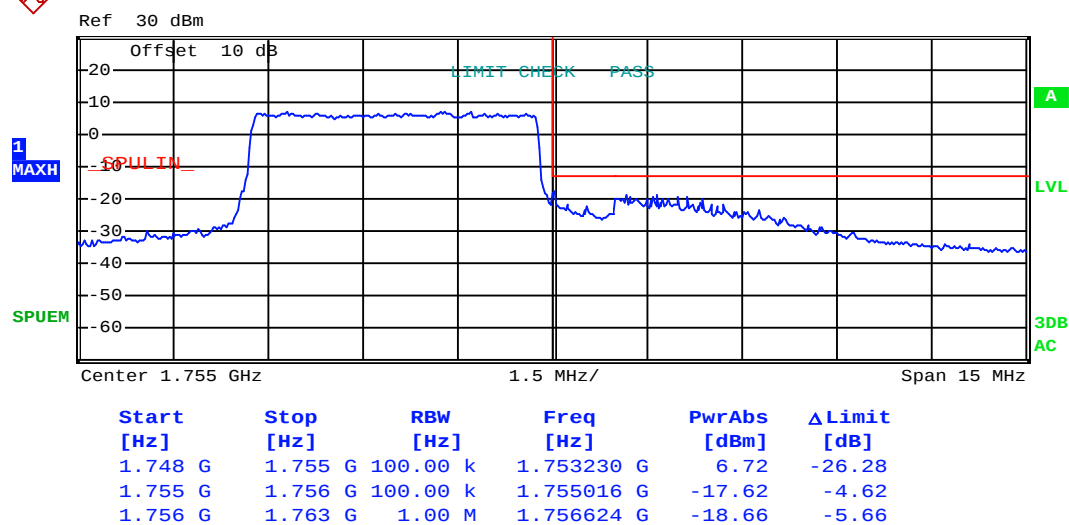
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 25 & RB Offset 0)



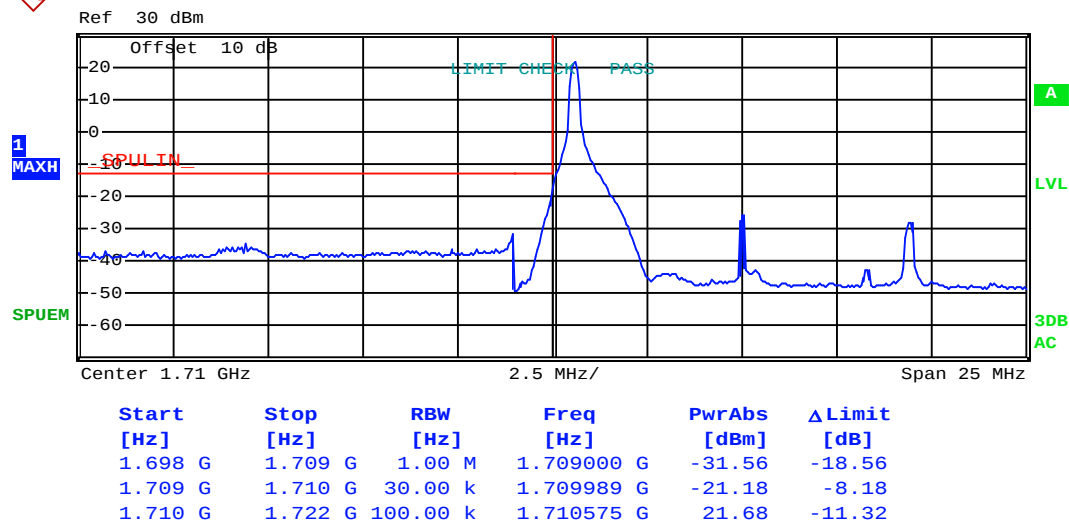
Lowest channel



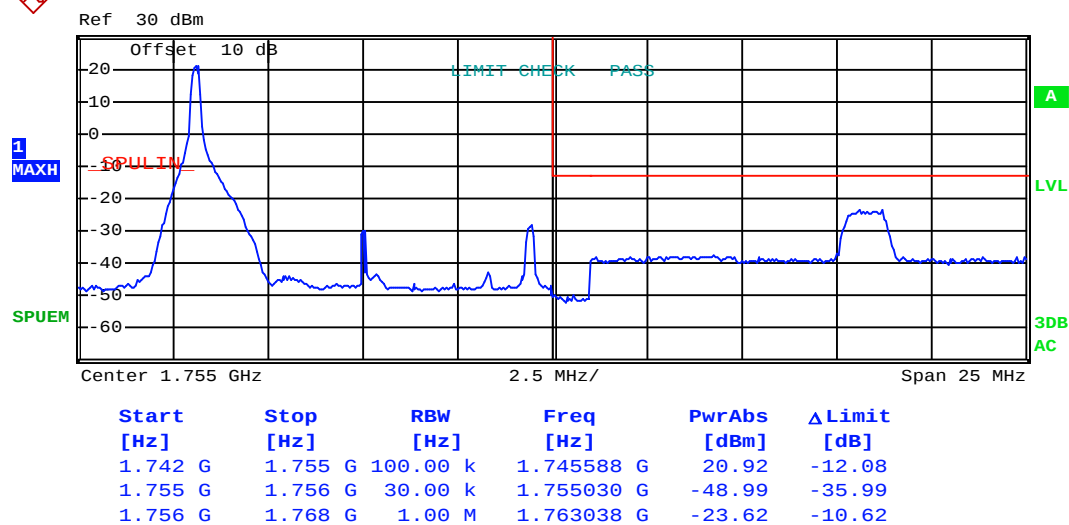
Highest channel

10MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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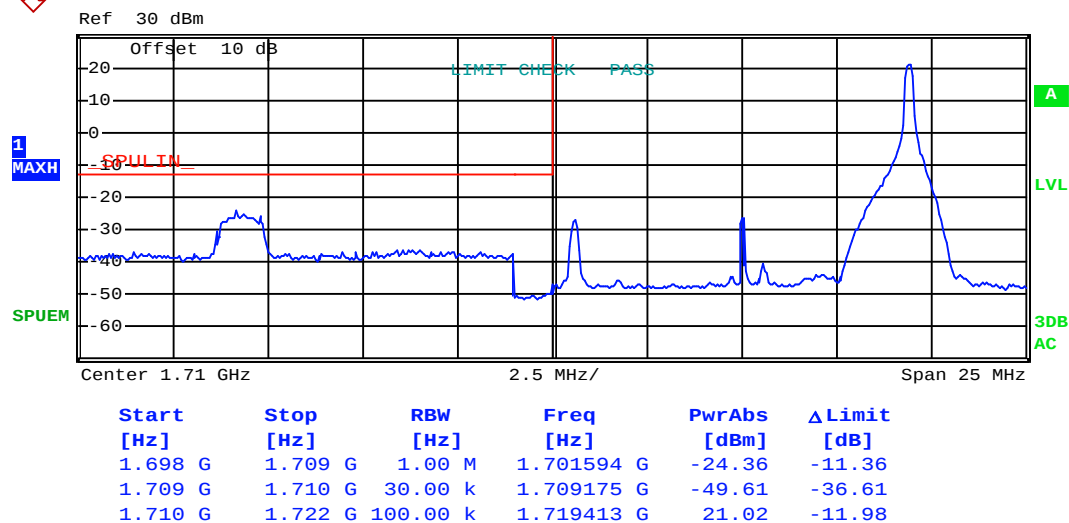


Lowest channel

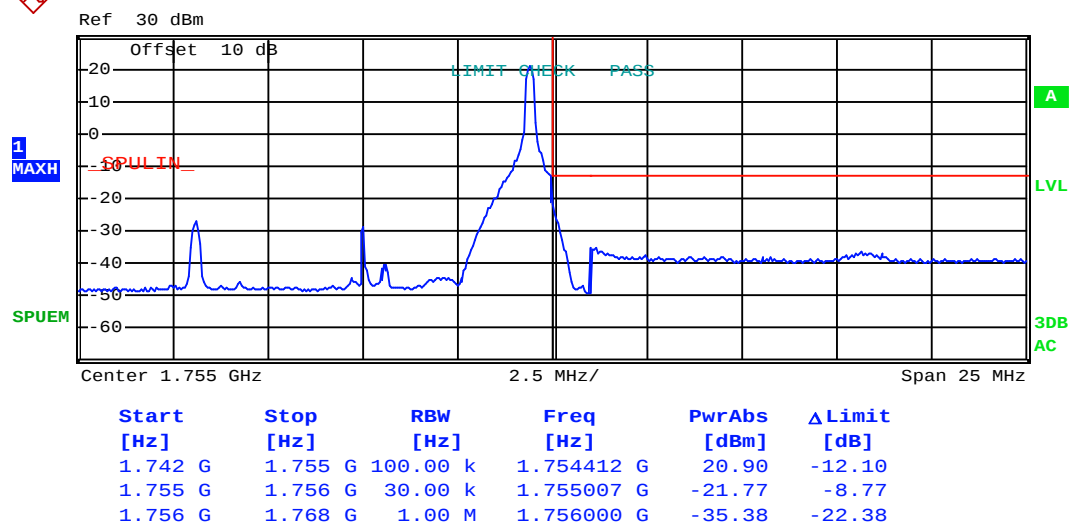


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 49)
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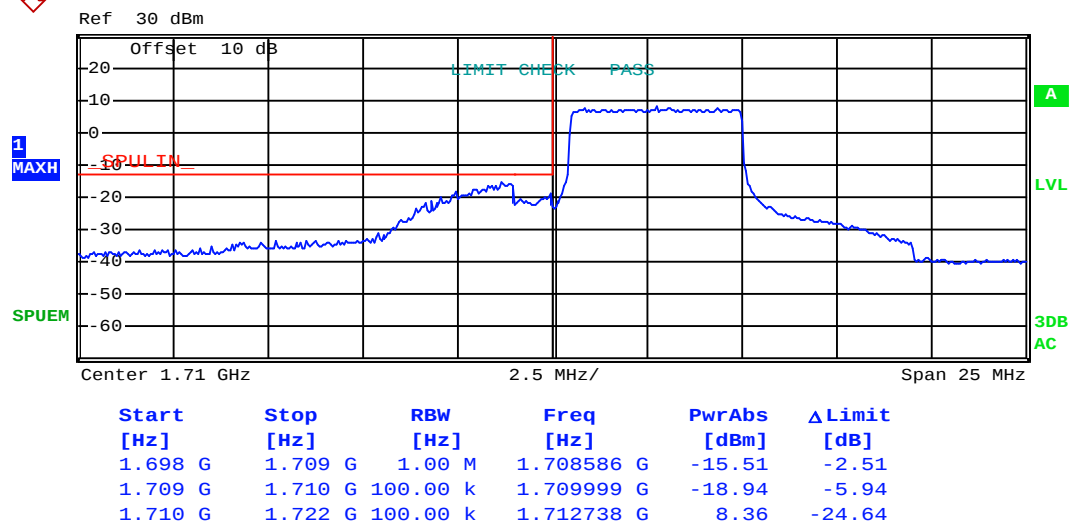


Lowest channel

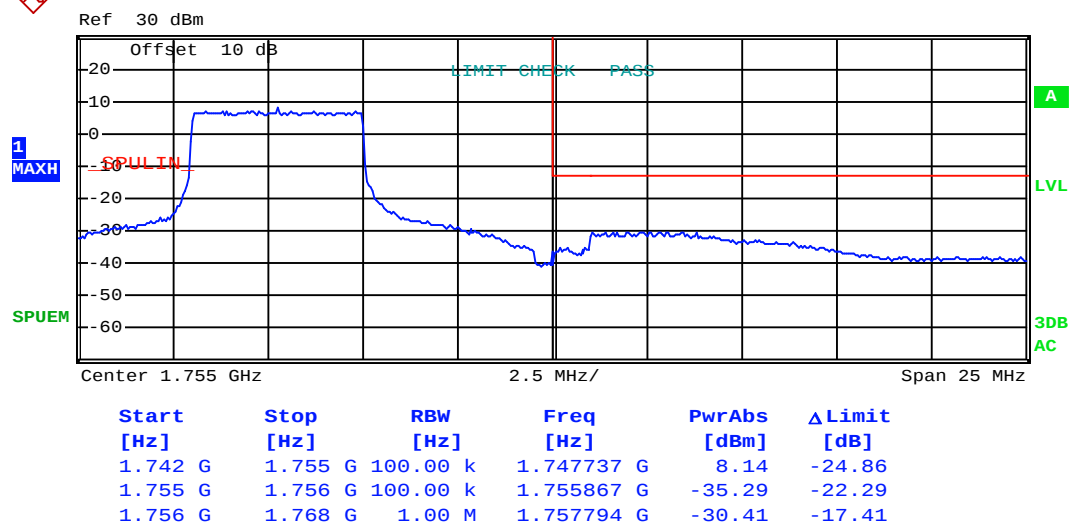


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 25 & RB Offset 0)
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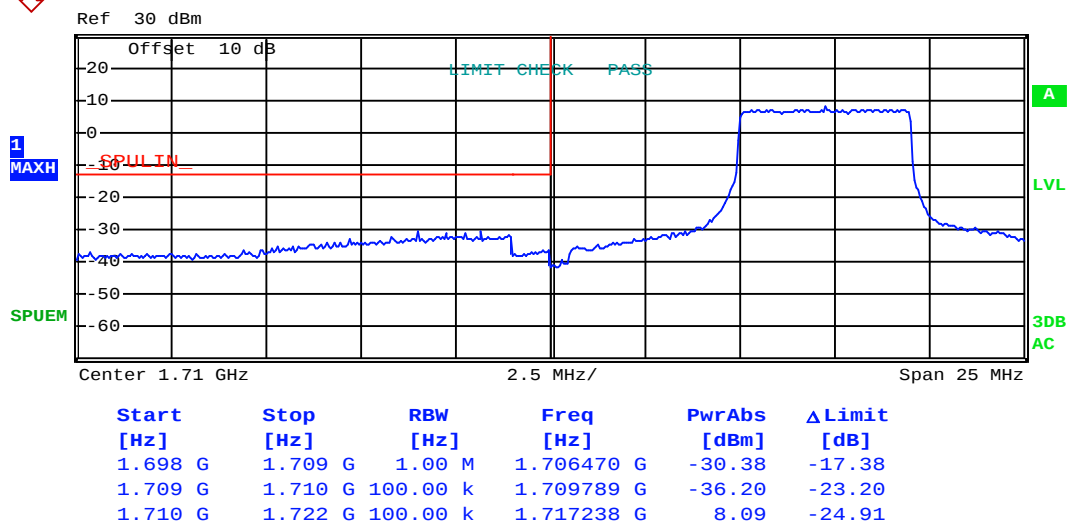
Lowest channel



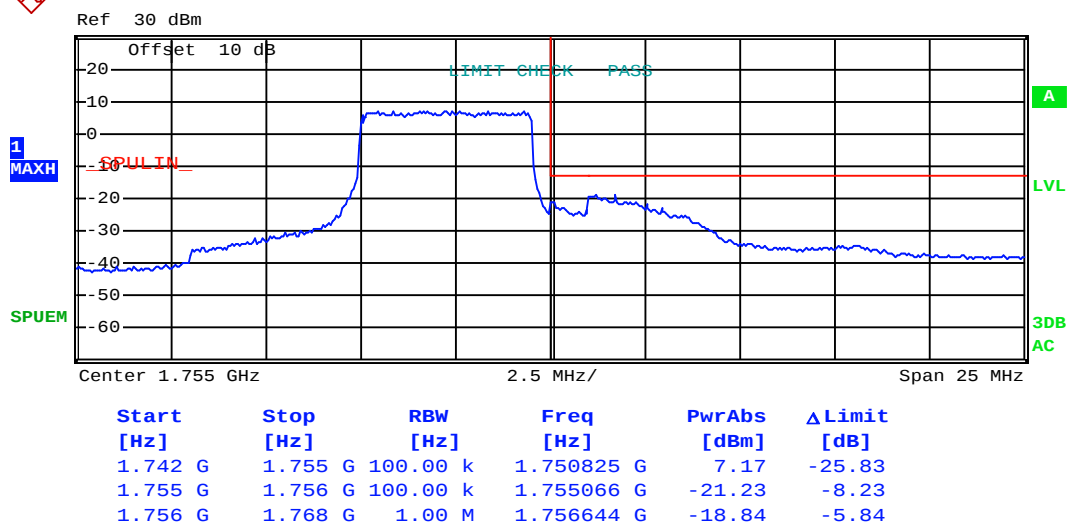
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 24)



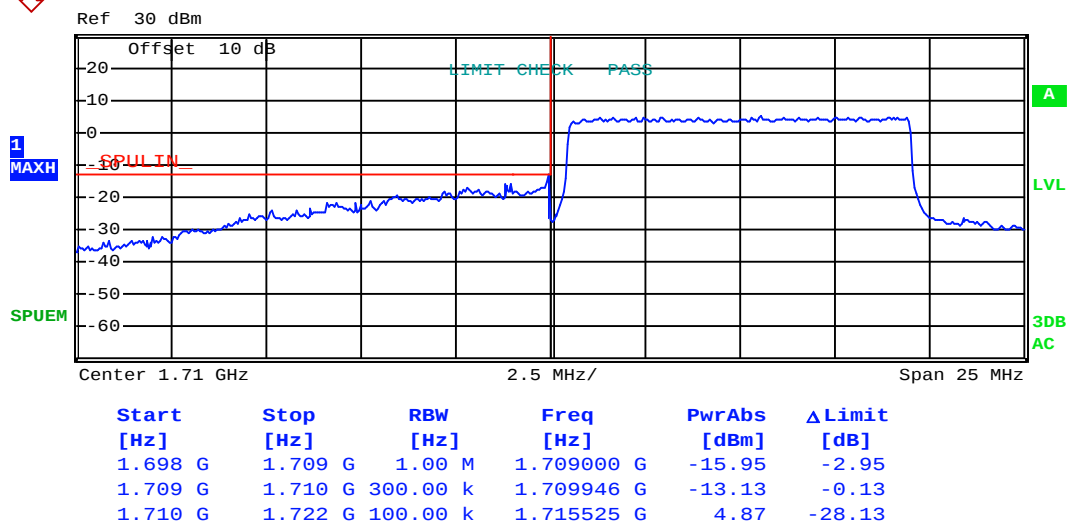
Lowest channel



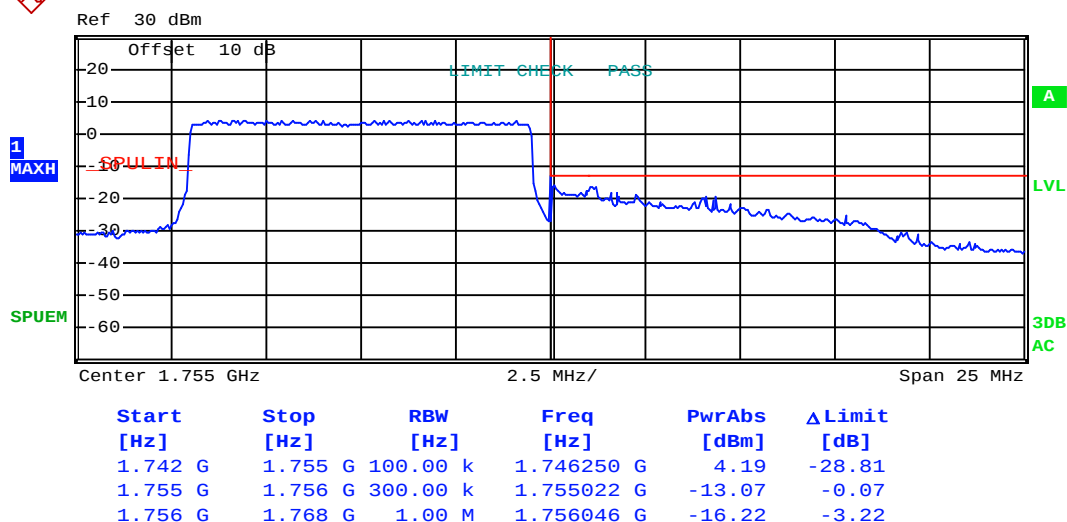
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 50 & RB Offset 0)

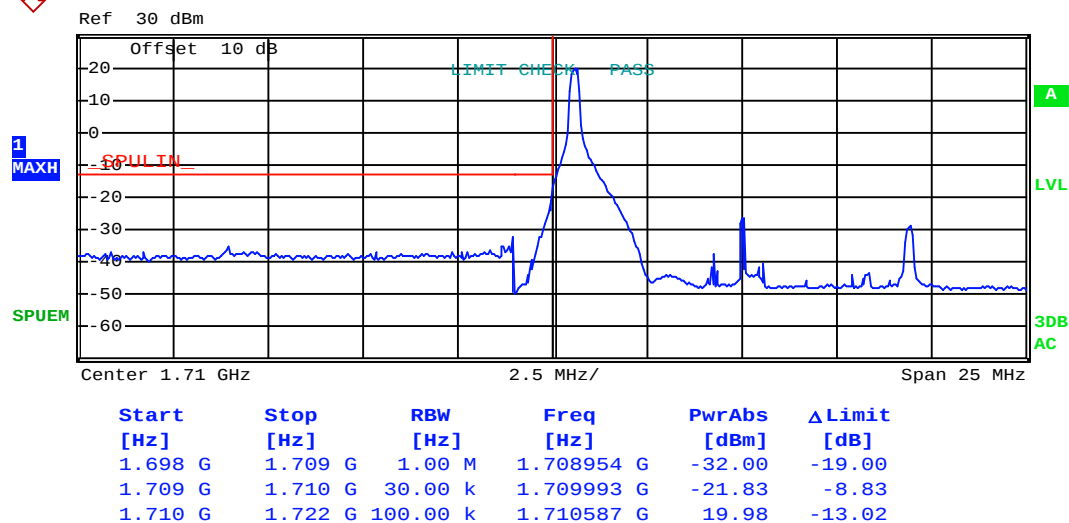


Lowest channel

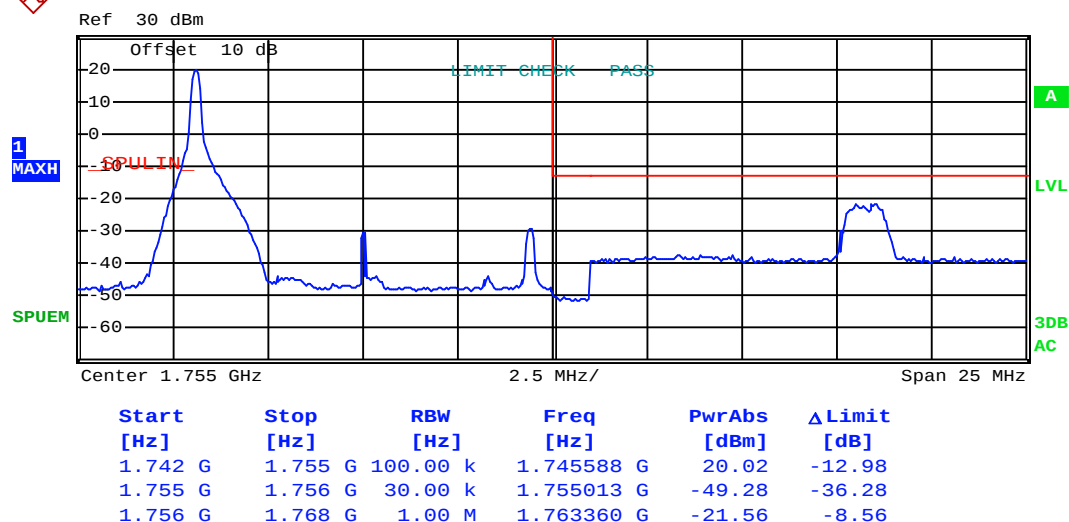


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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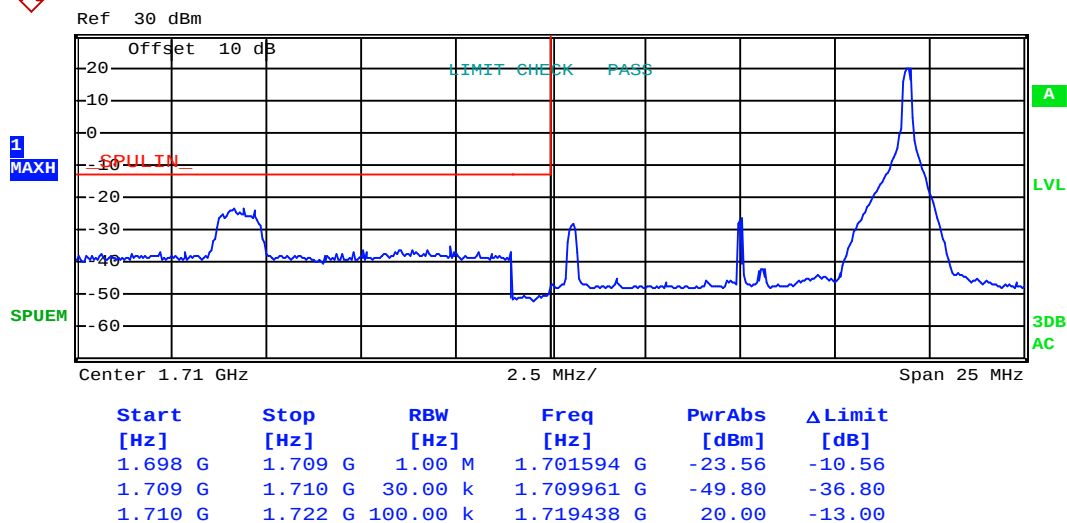
Lowest channel



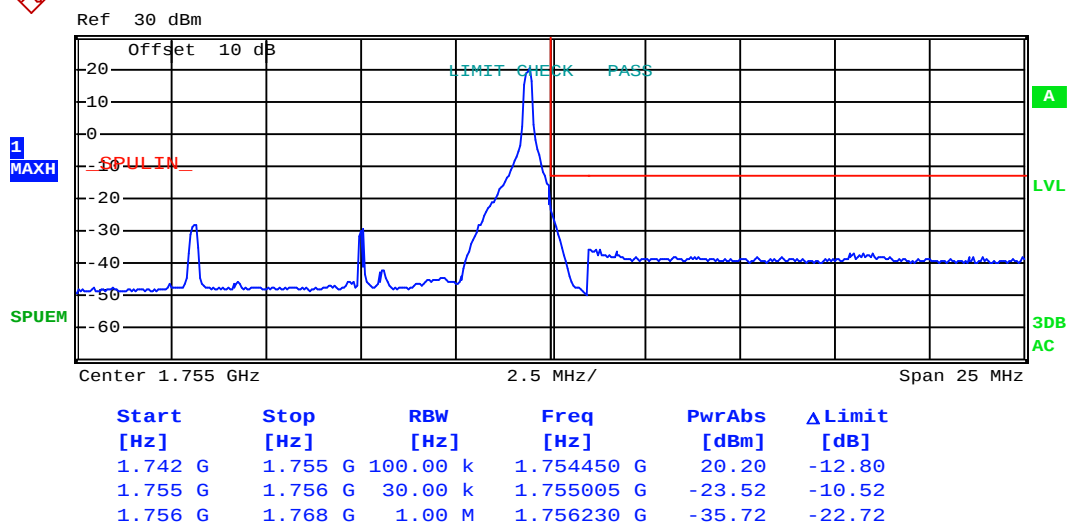
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 49)

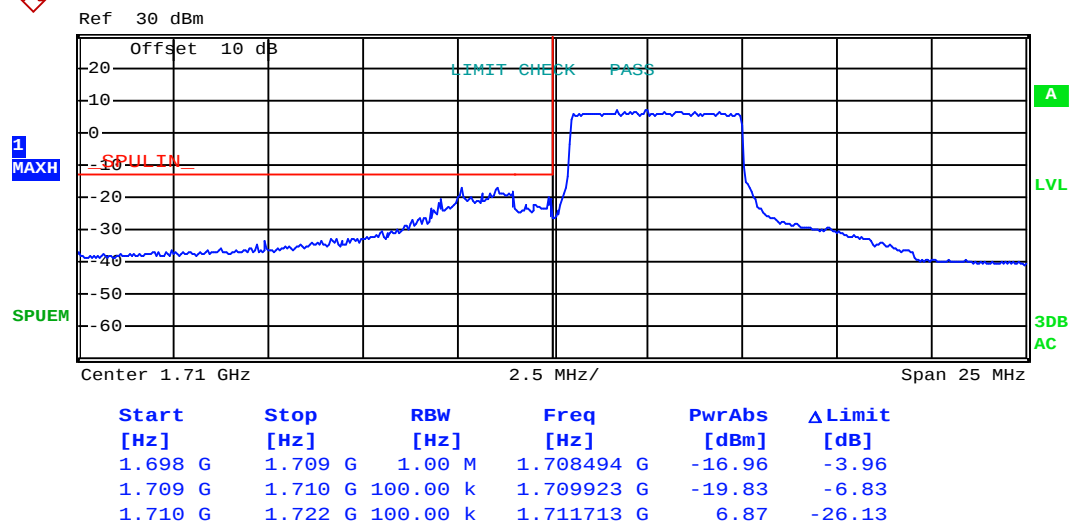


Lowest channel

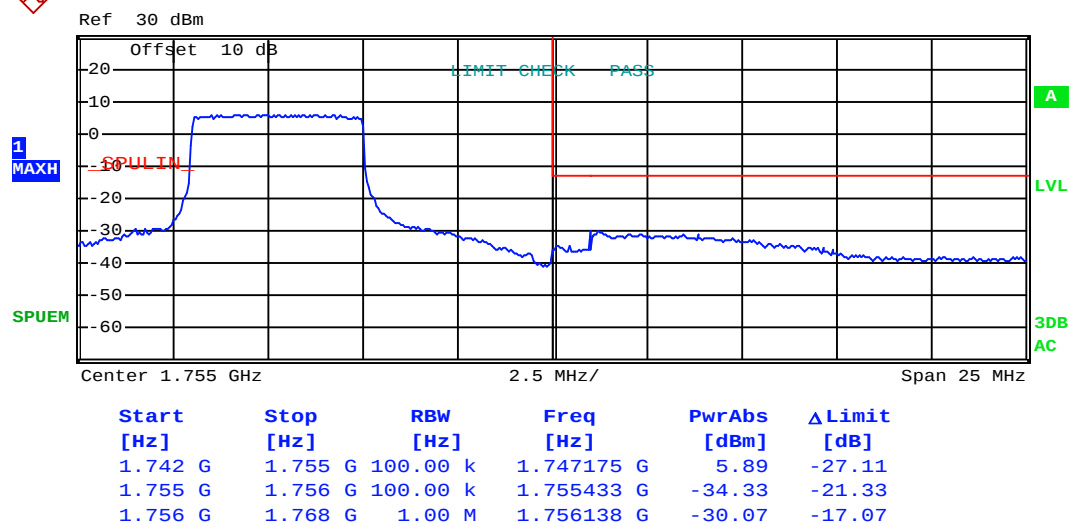


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 25 & RB Offset 0)
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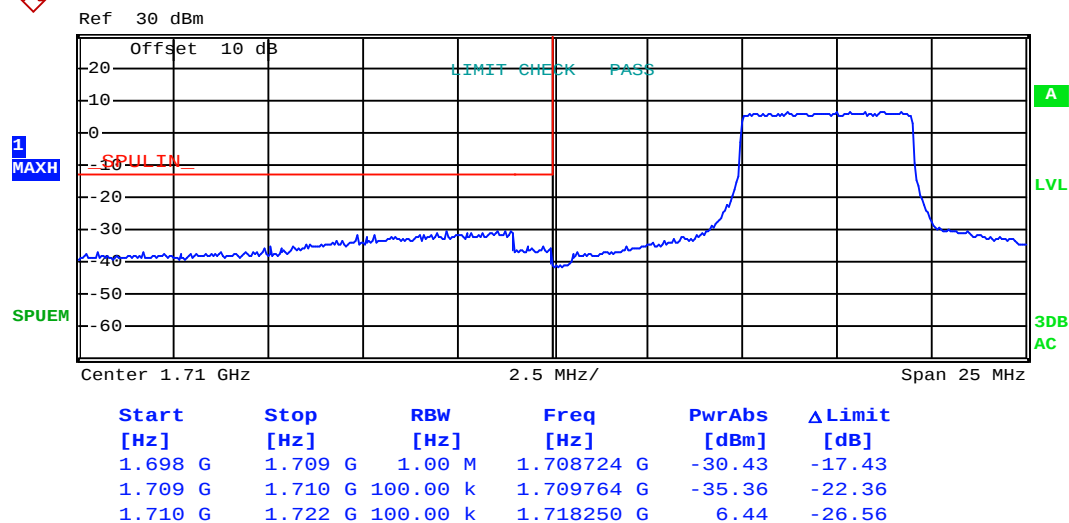


Lowest channel

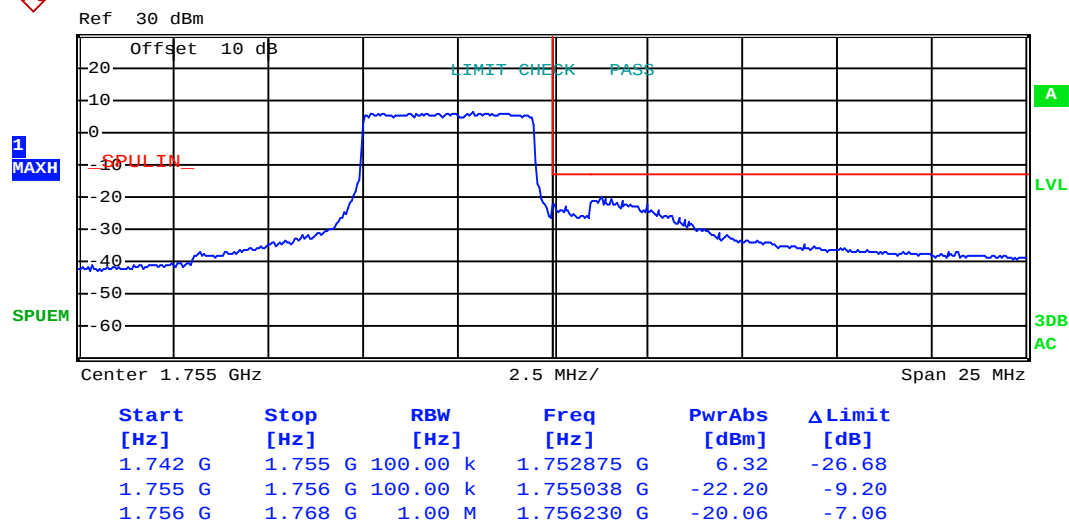


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 25 & RB Offset 24)
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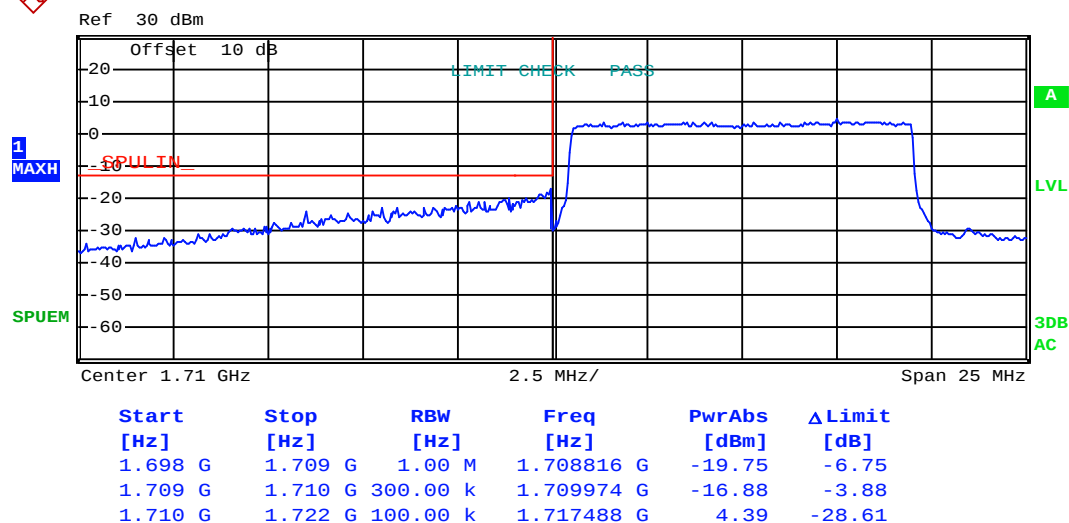
Lowest channel



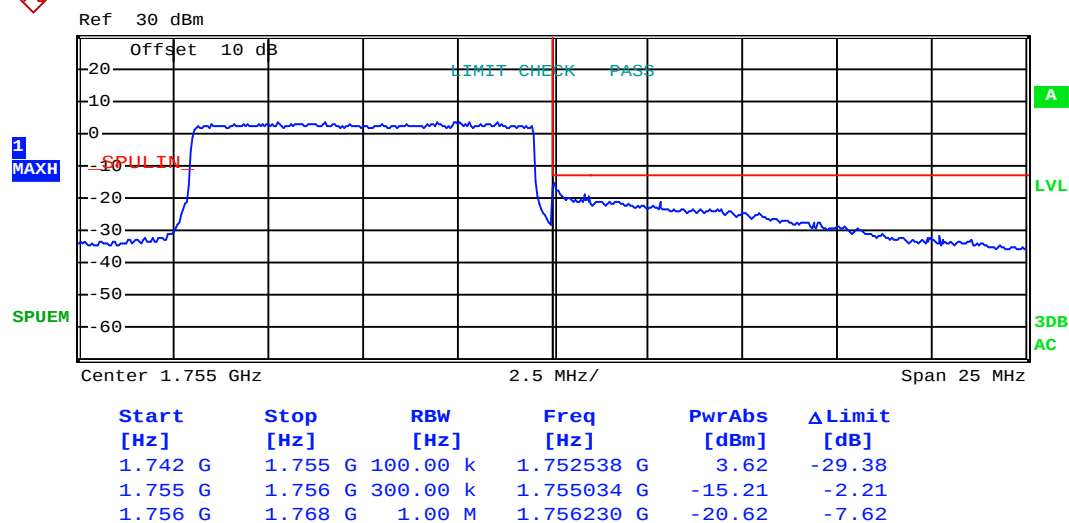
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 50 & RB Offset 0)



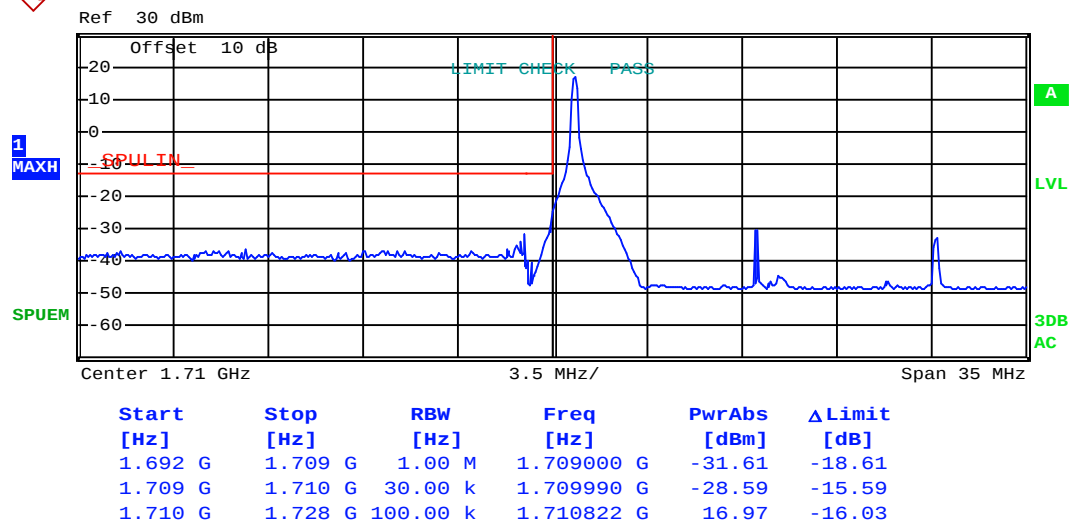
Lowest channel



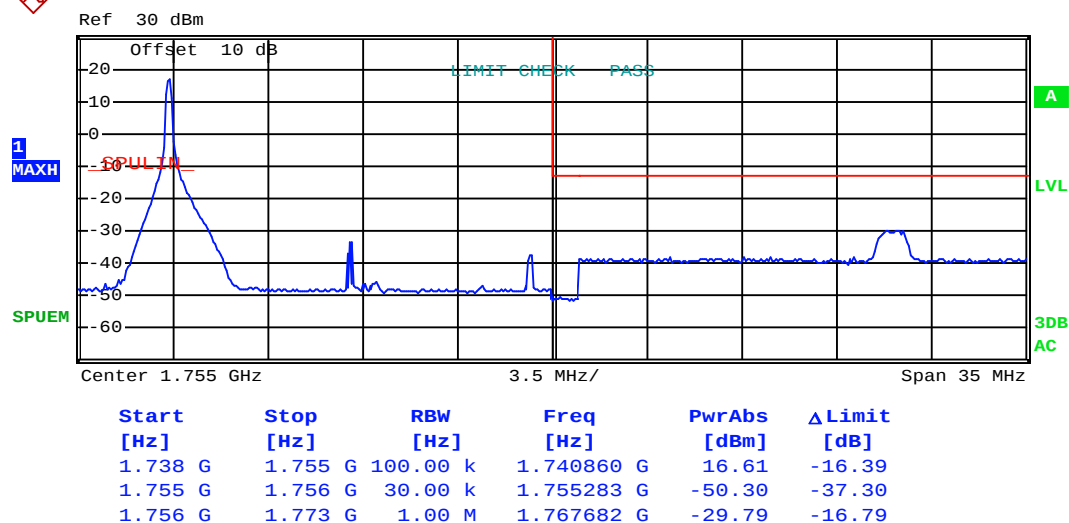
Highest channel

15MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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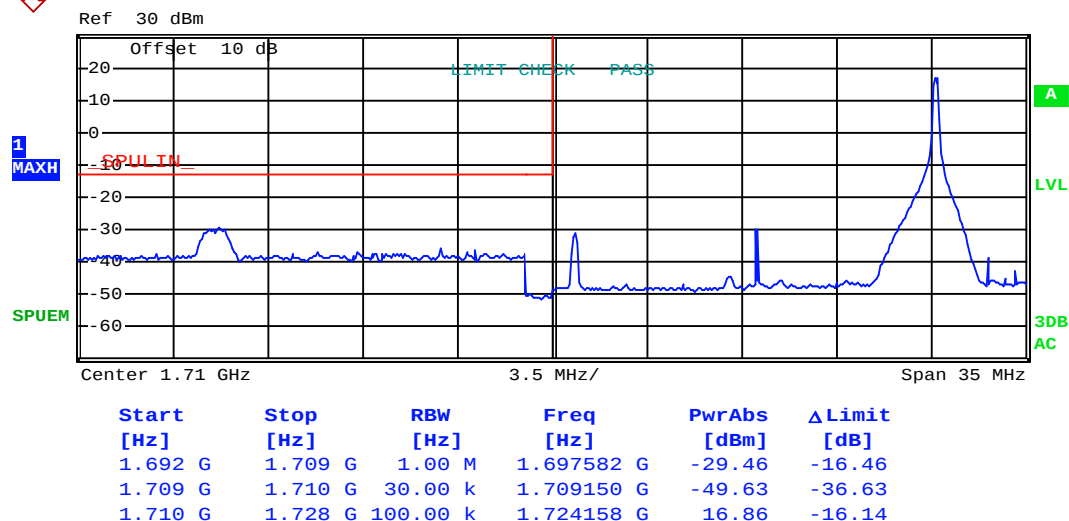


Lowest channel

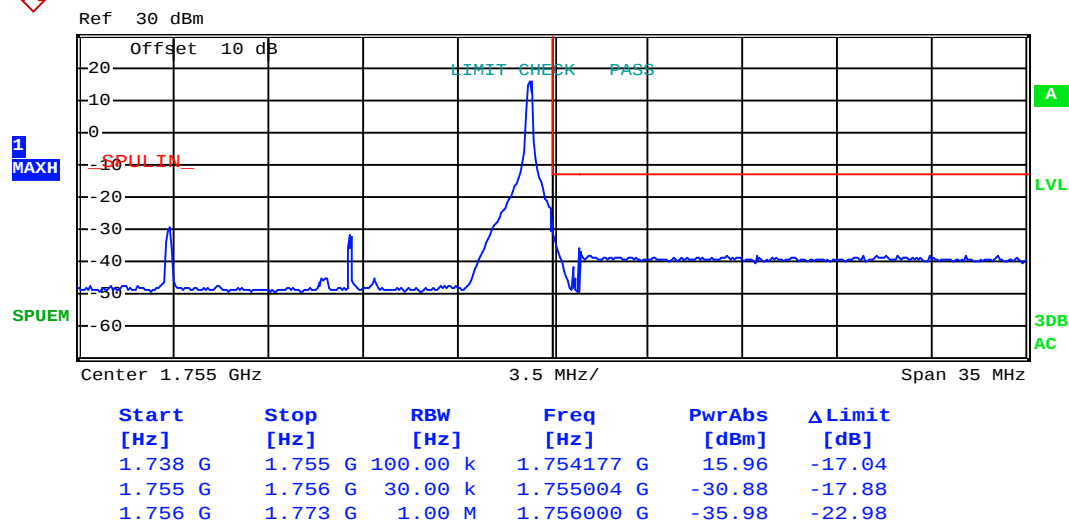


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 74)
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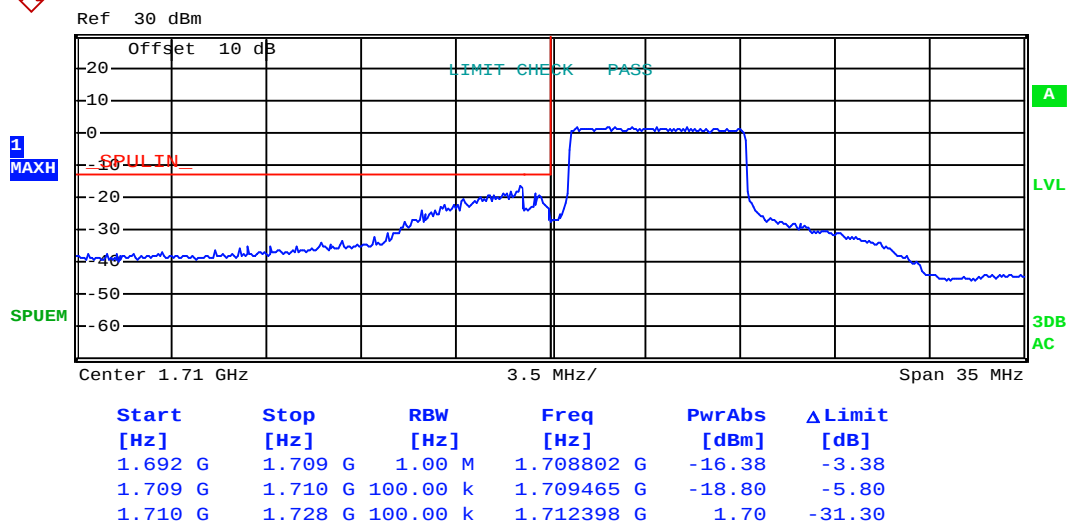
Lowest channel



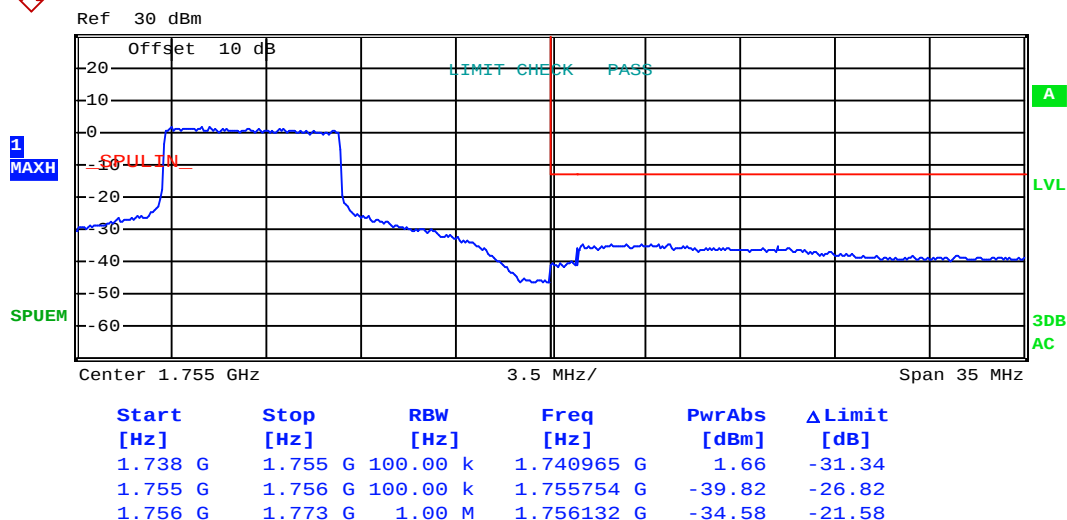
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 36 & RB Offset 0)

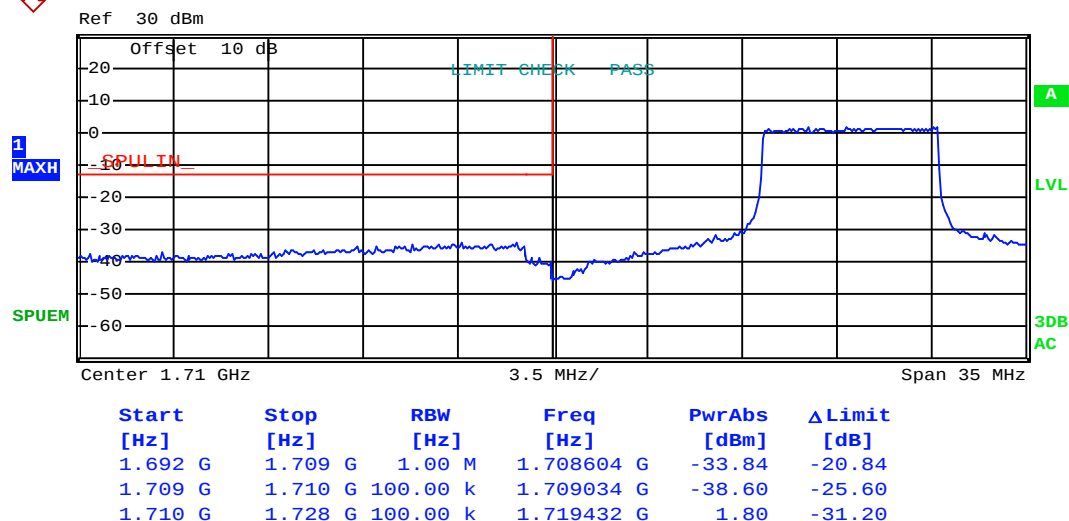


Lowest channel

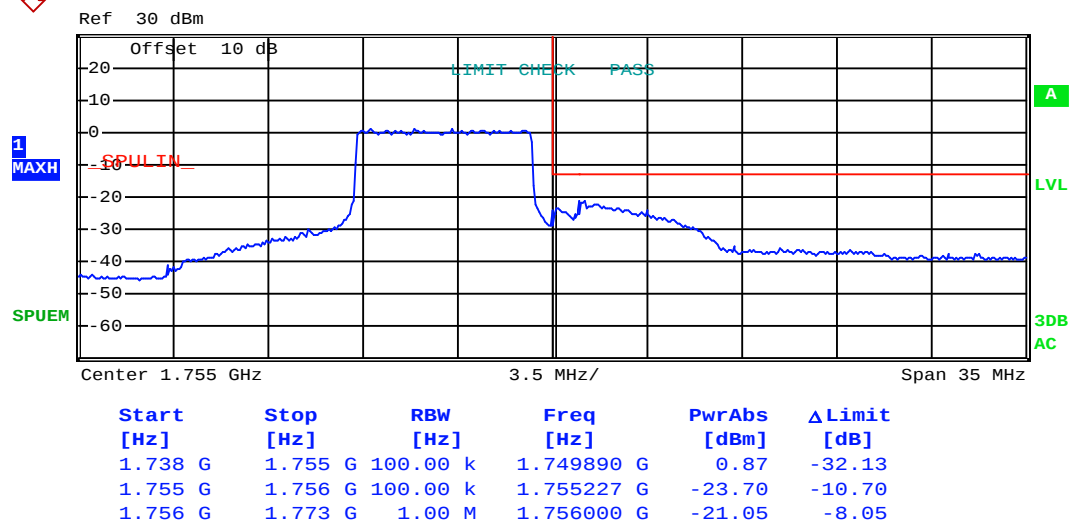


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 36 & RB Offset 35)
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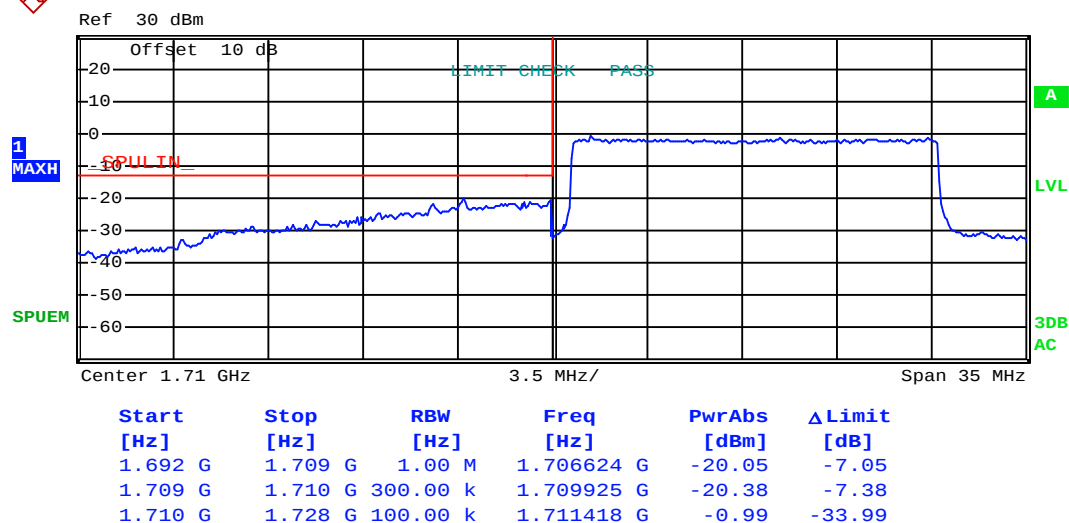
Lowest channel



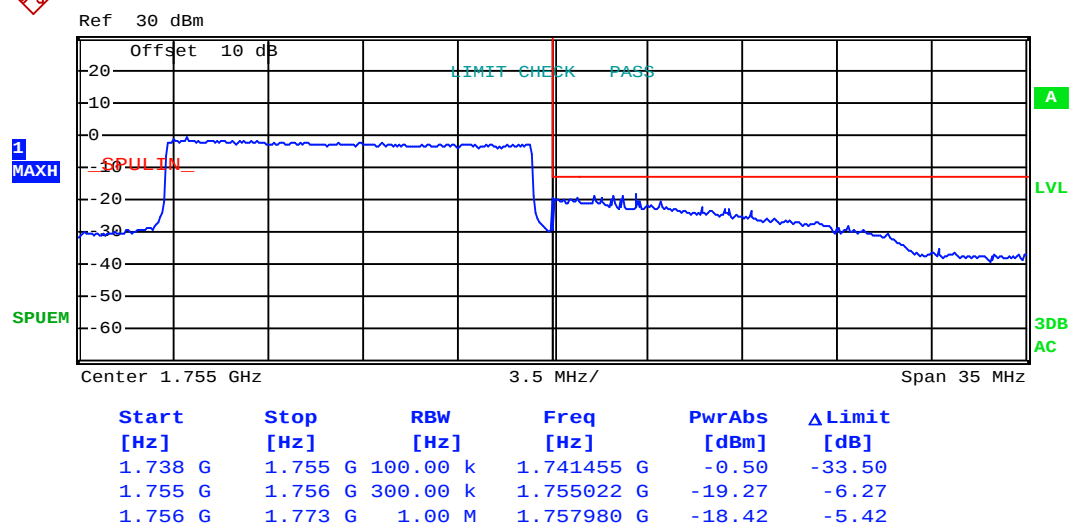
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 75 & RB Offset 0)



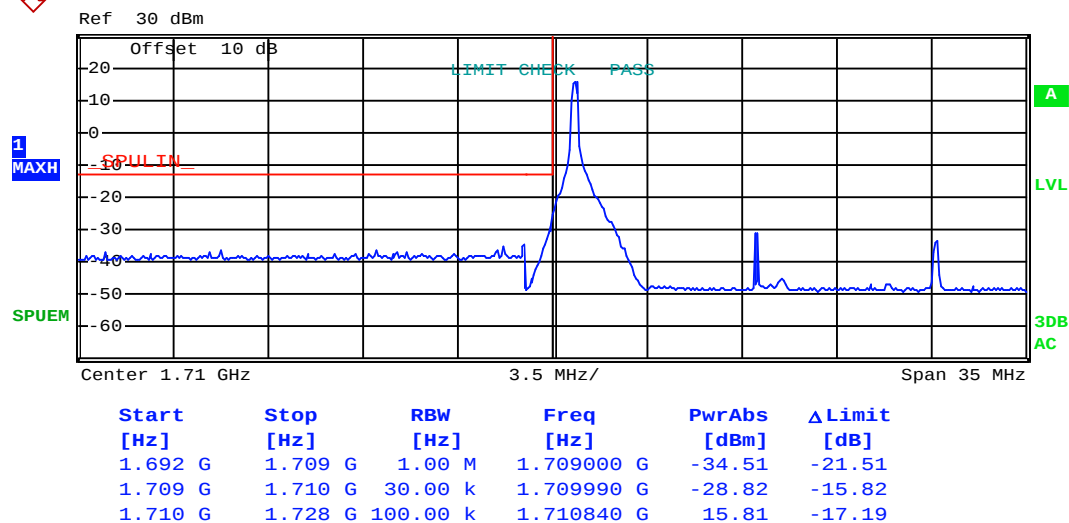
Lowest channel



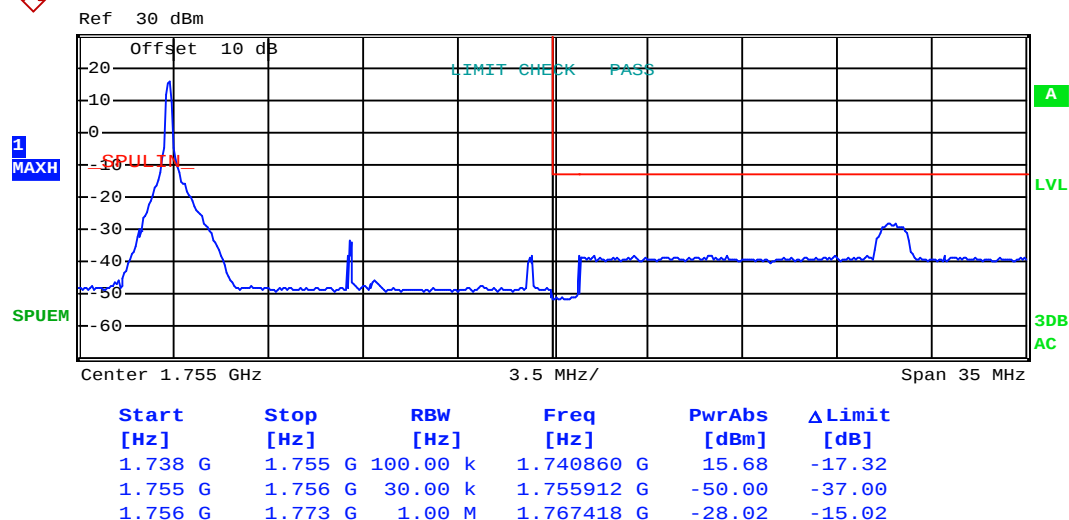
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 0)

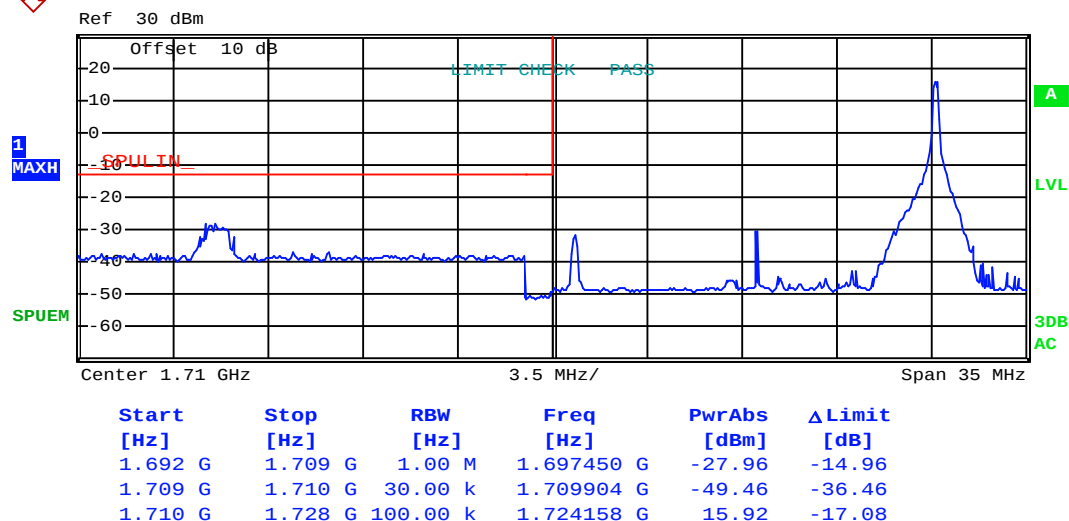


Lowest channel

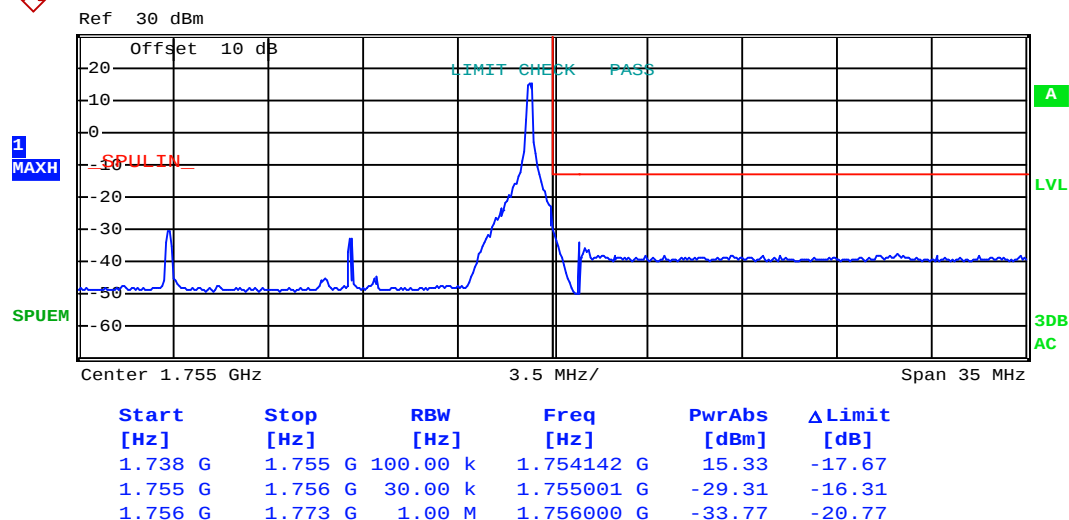


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 74)
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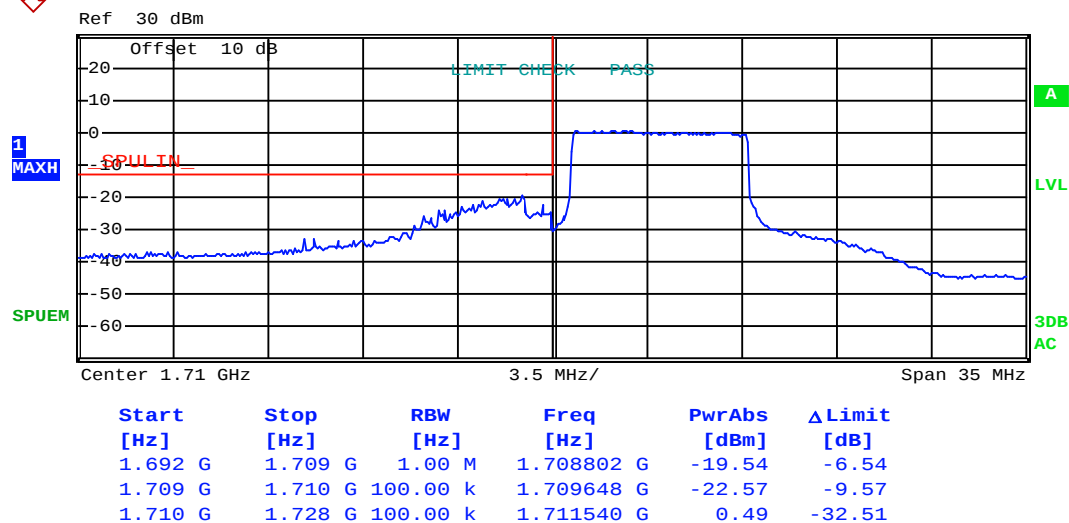


Lowest channel

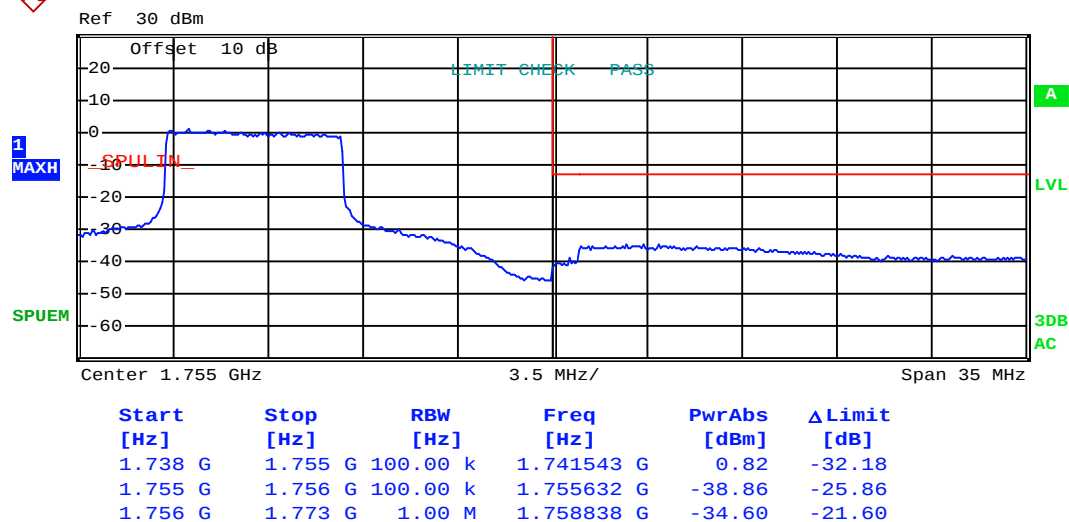


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 36 & RB Offset 0)
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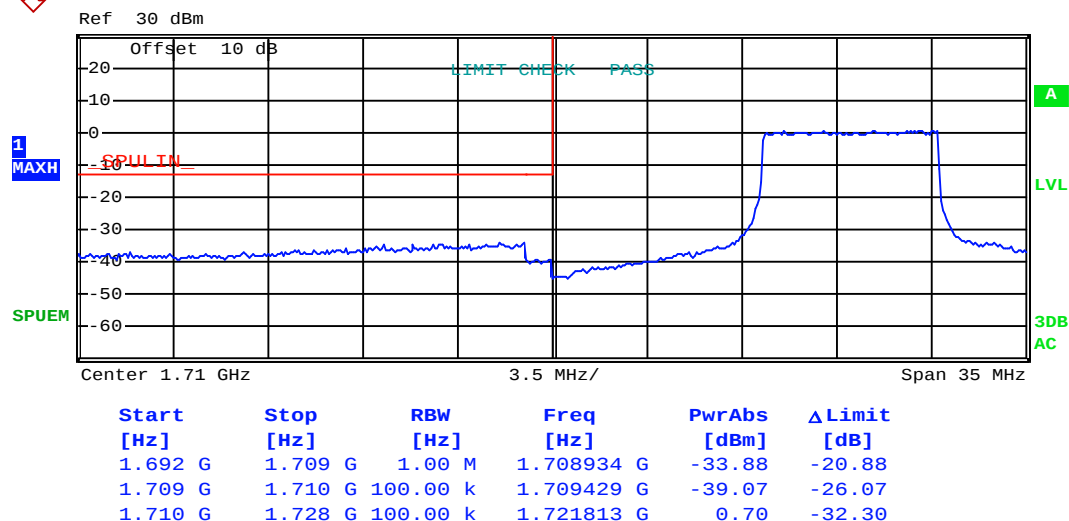


Lowest channel

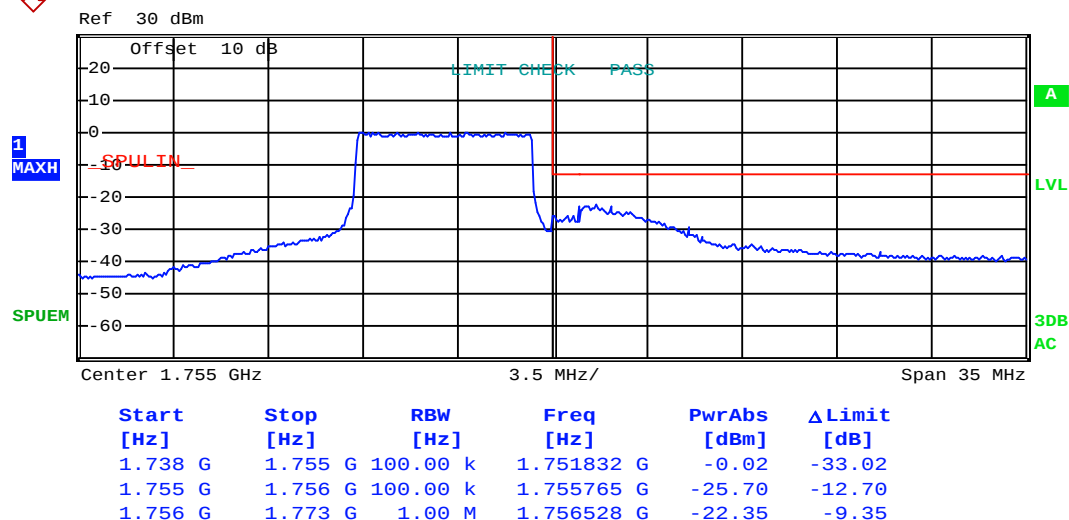


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 36 & RB Offset 35)
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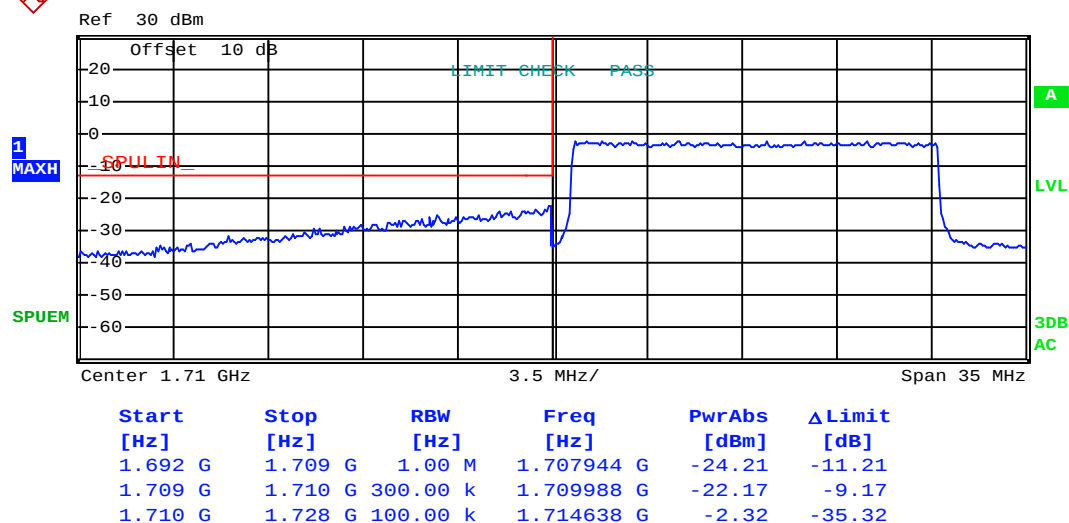
Lowest channel



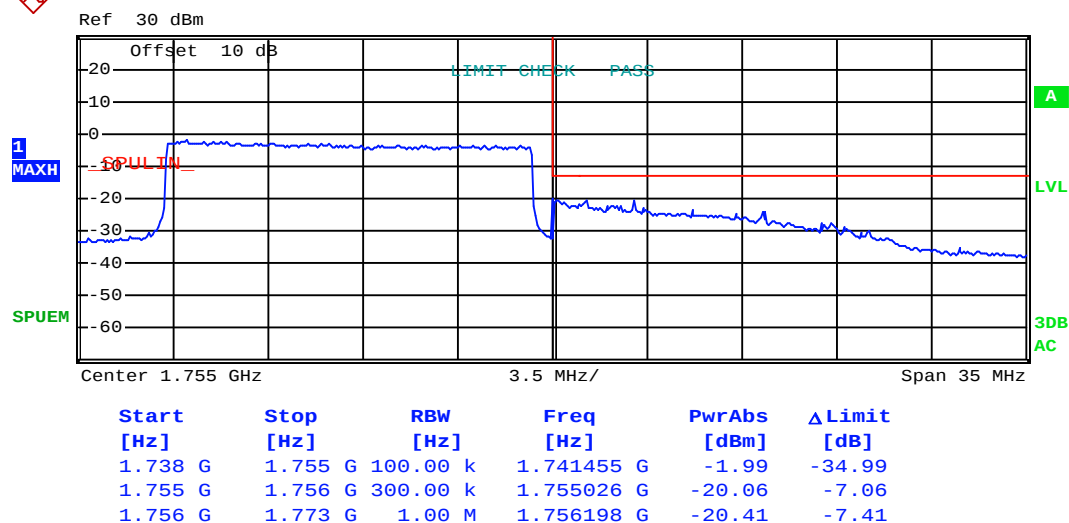
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 75 & RB Offset 0)



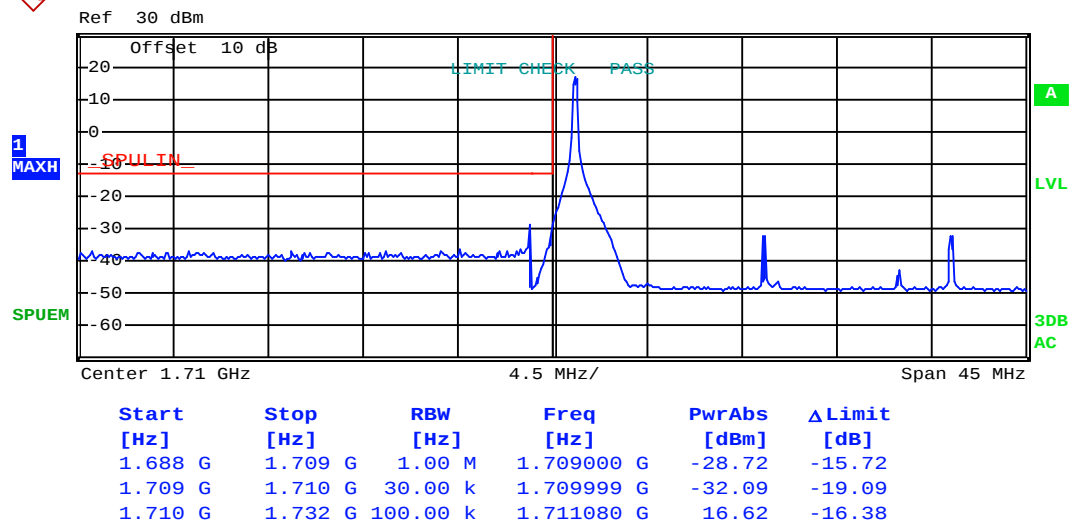
Lowest channel



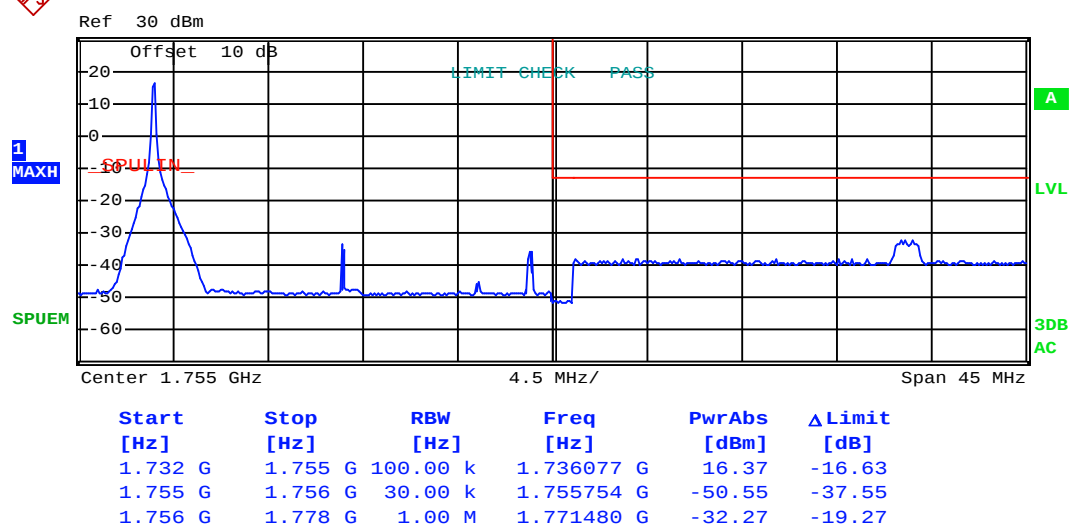
Highest channel

20MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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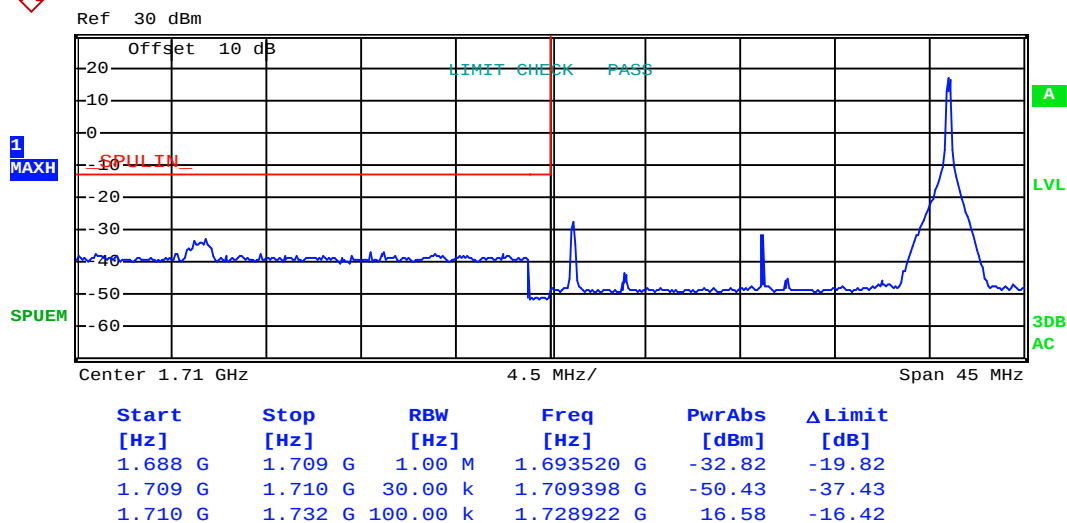
Lowest channel



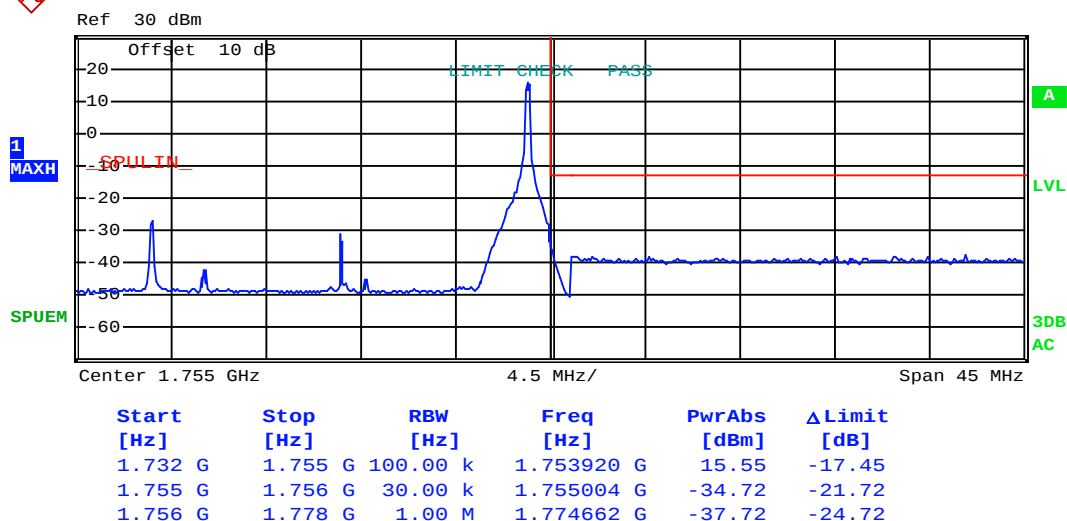
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 99)



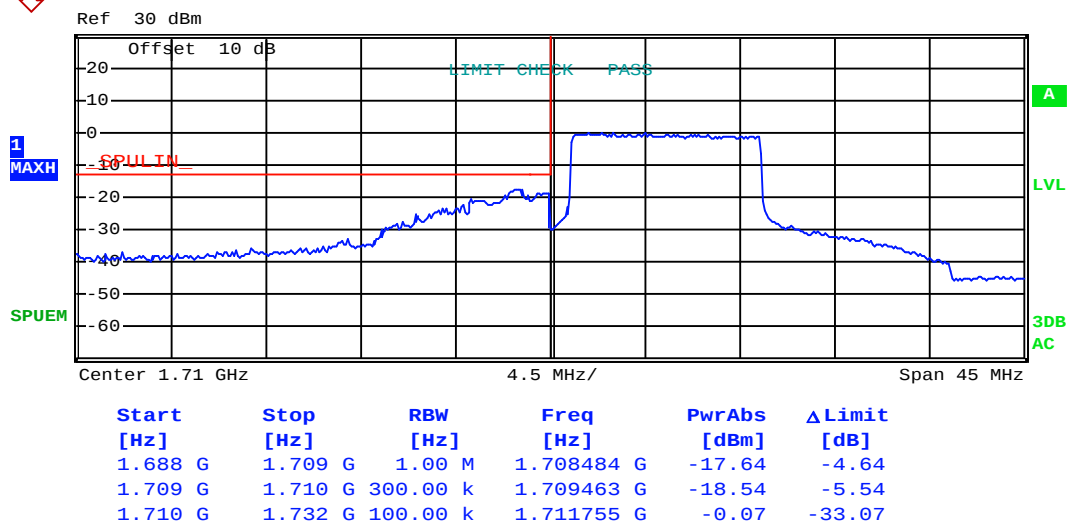
Lowest channel



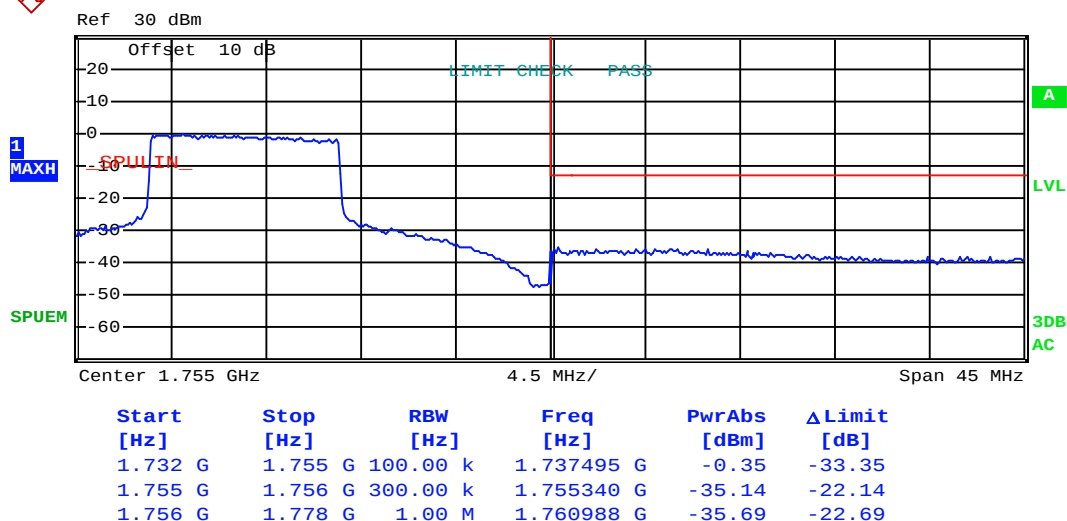
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 50 & RB Offset 0)



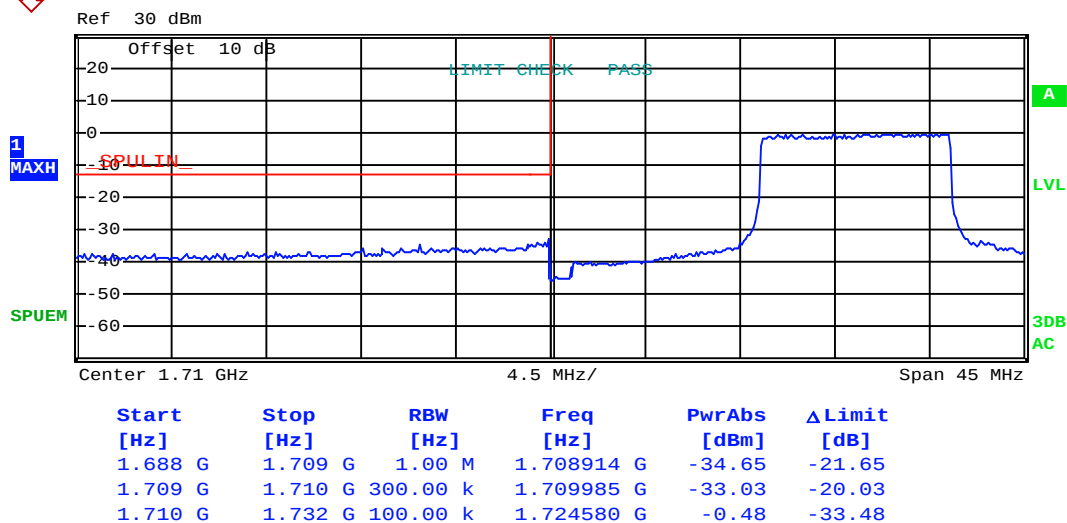
Lowest channel



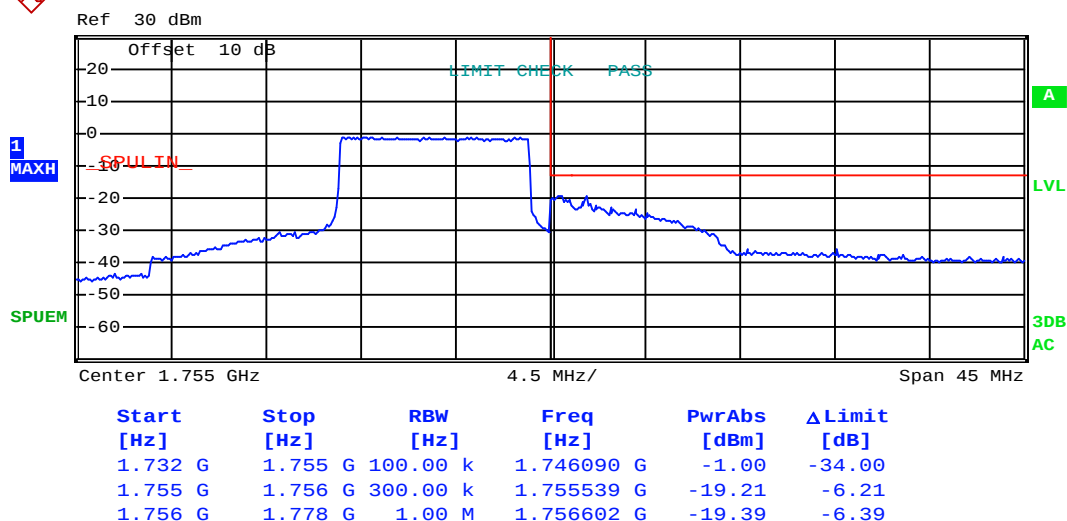
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 50 & RB Offset 49)



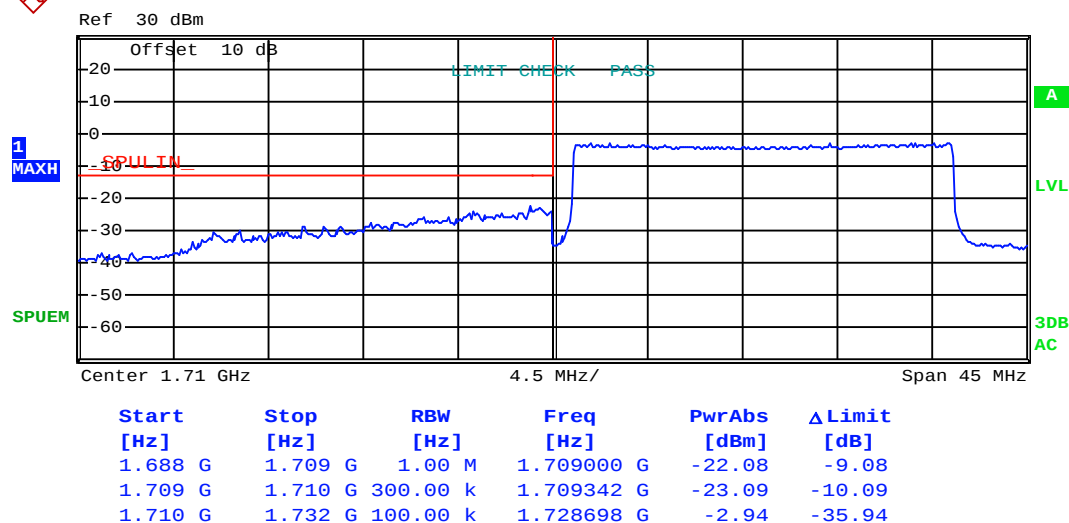
Lowest channel



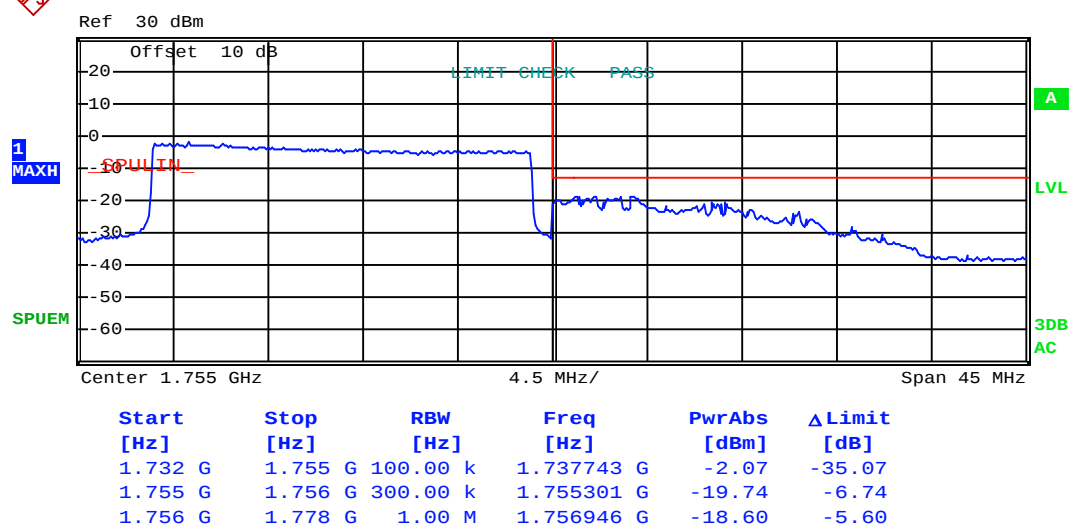
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 100 & RB Offset 0)

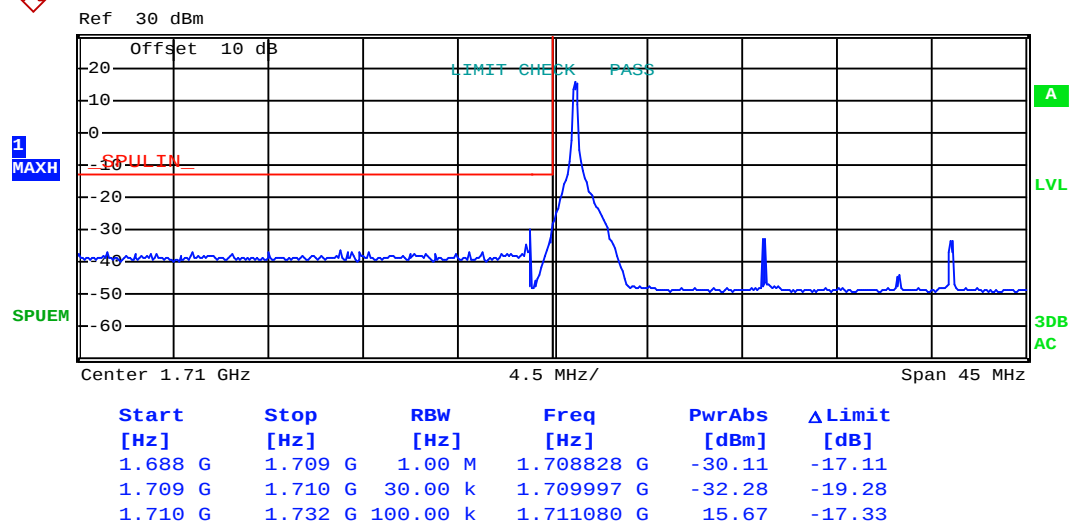


Lowest channel

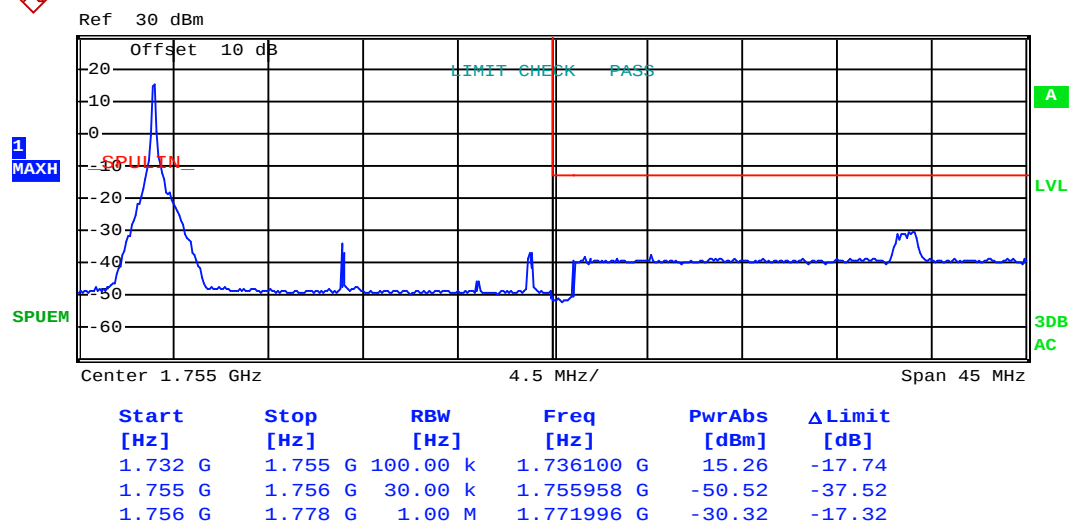


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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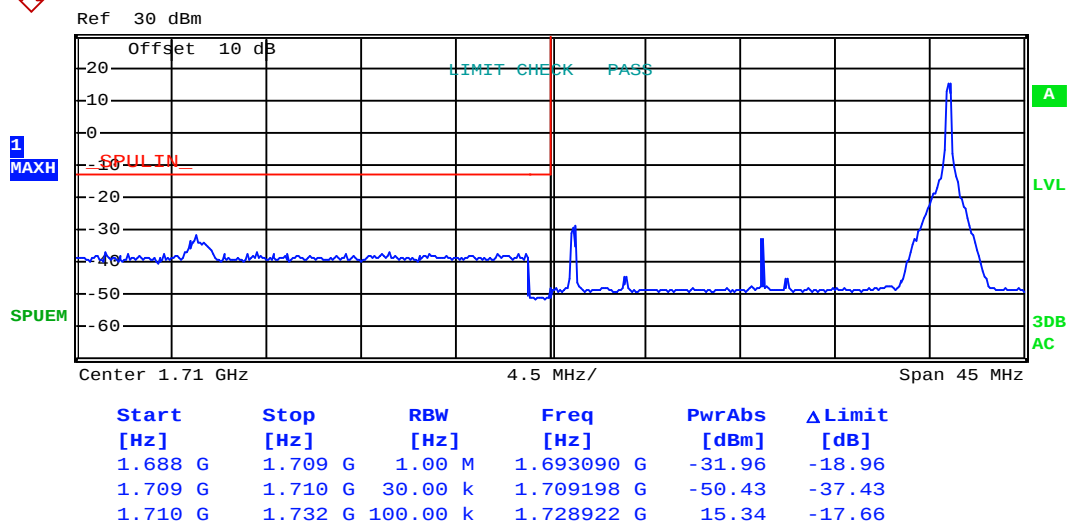
Lowest channel



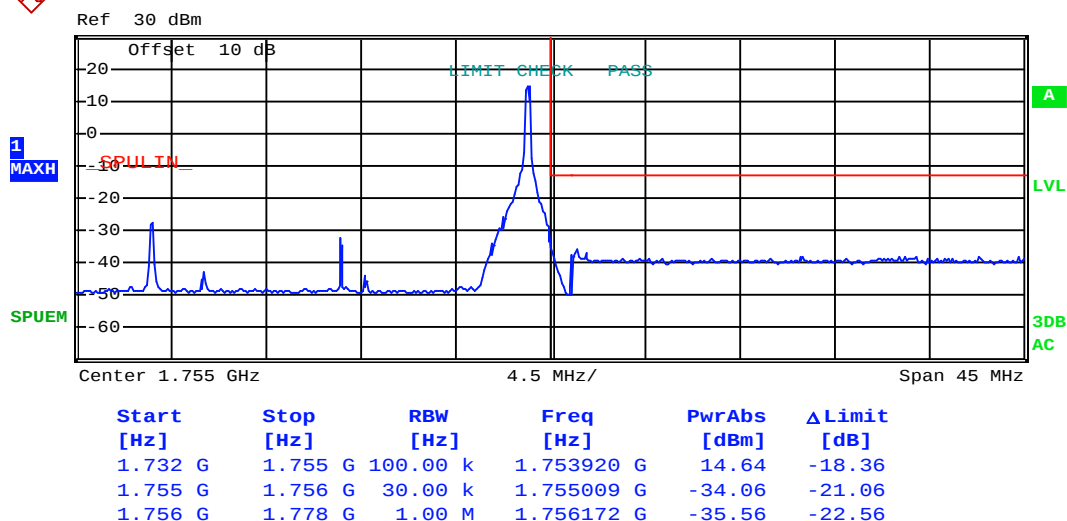
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 99)



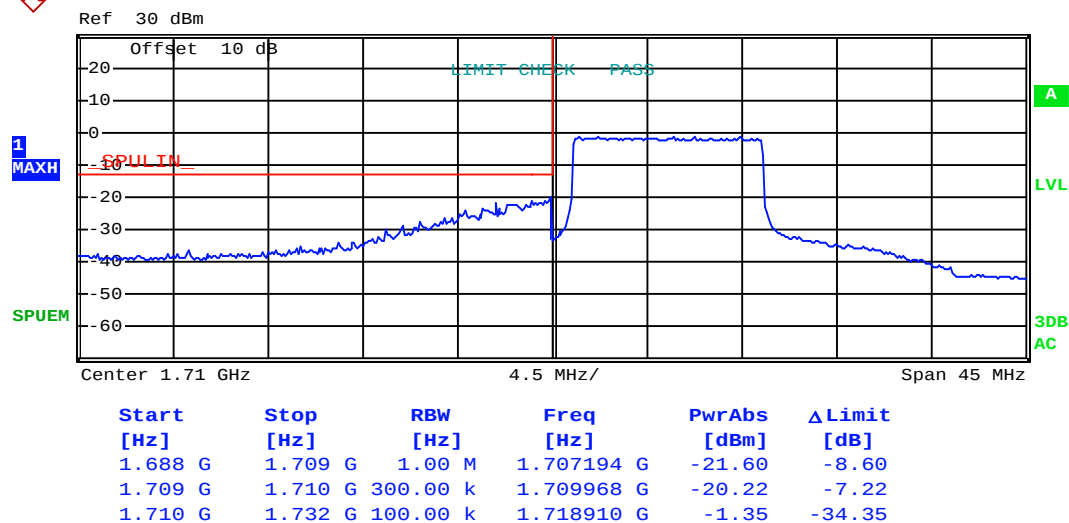
Lowest channel



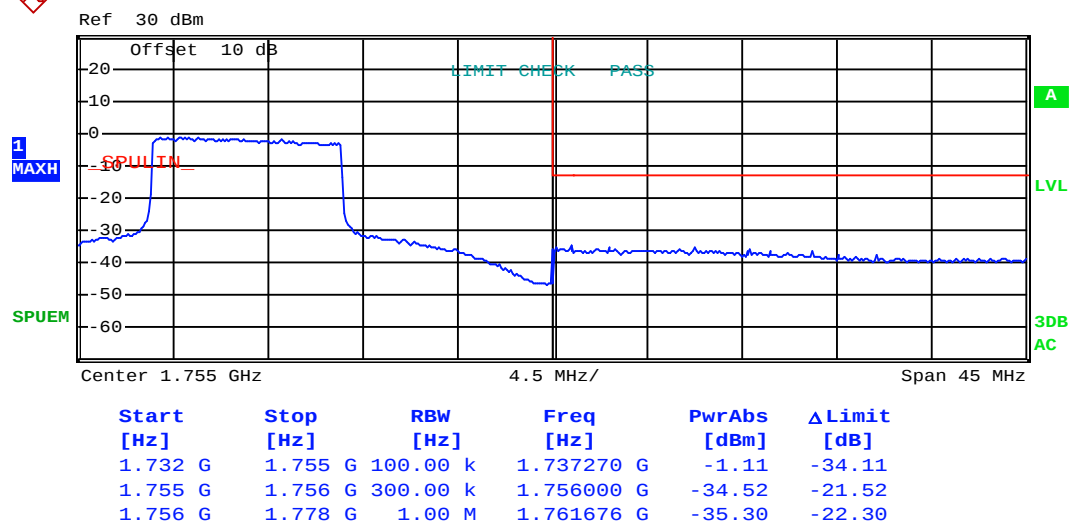
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 50 & RB Offset 0)



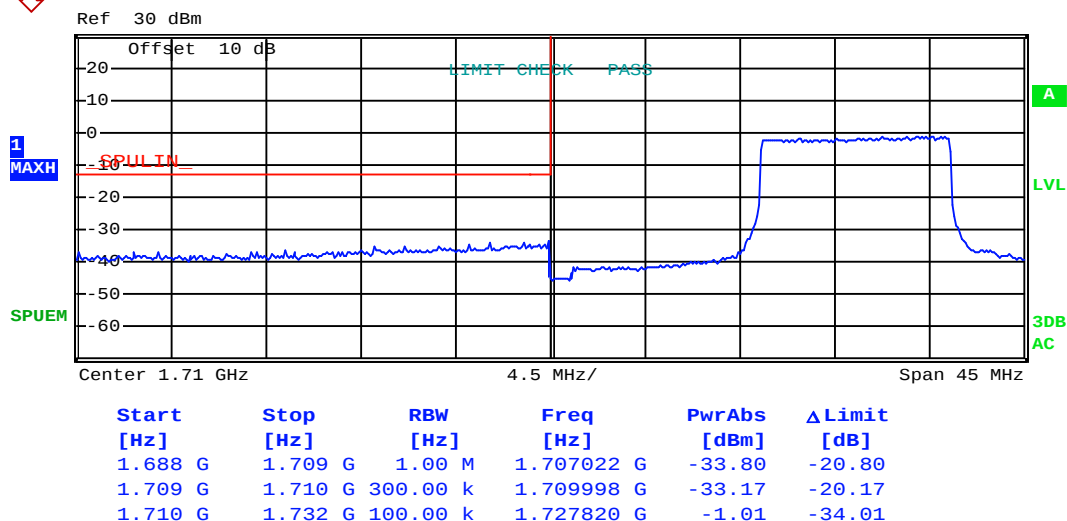
Lowest channel



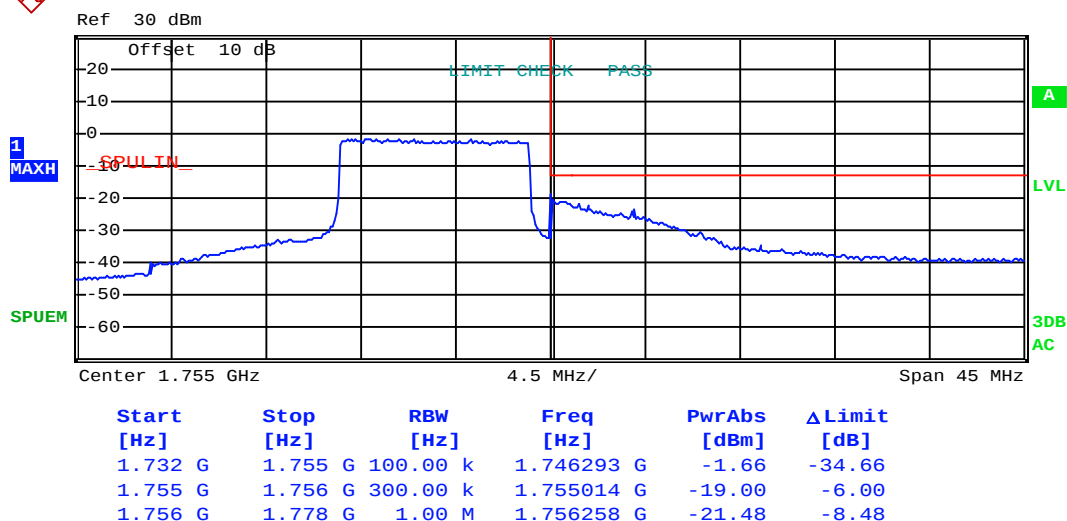
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 50 & RB Offset 49)



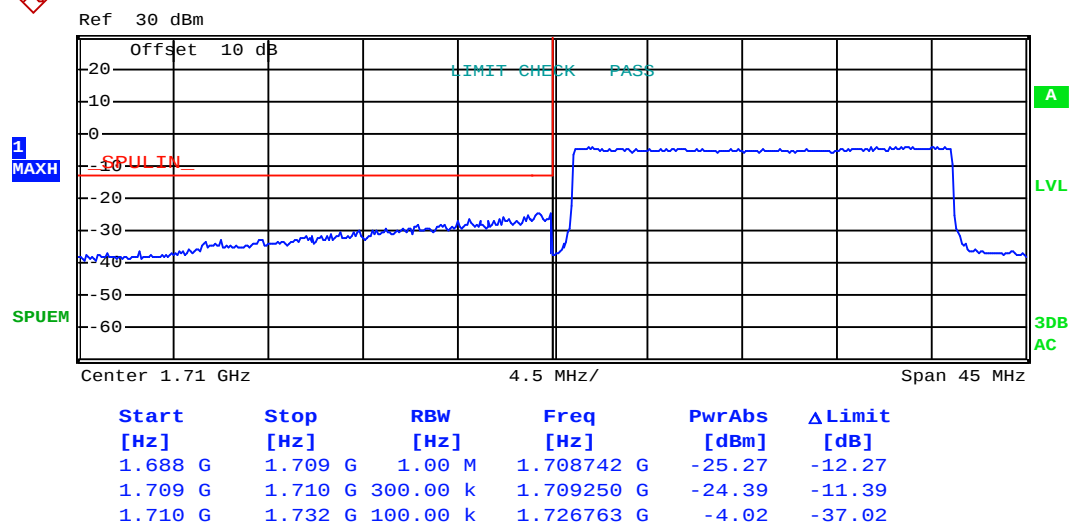
Lowest channel



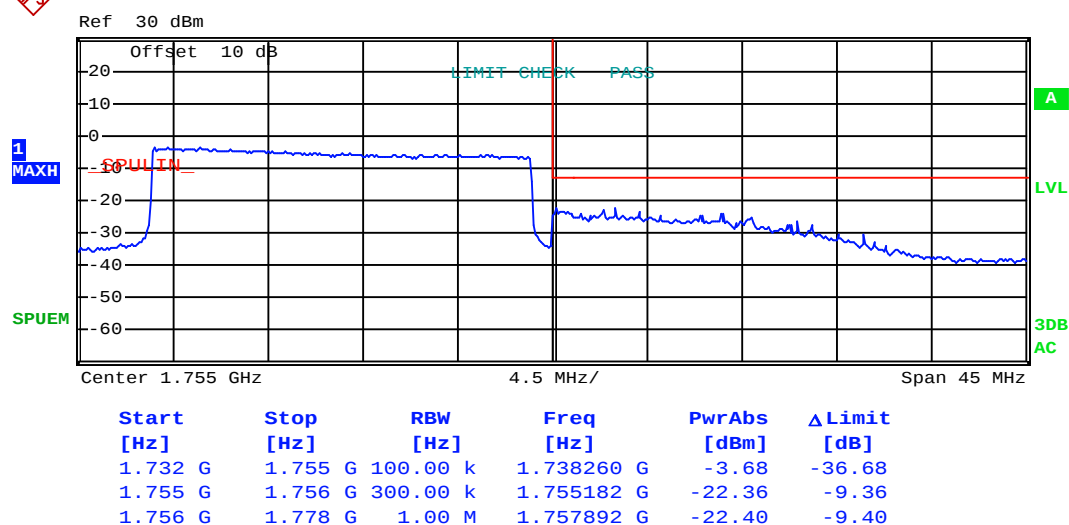
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 100 & RB Offset 0)



Lowest channel

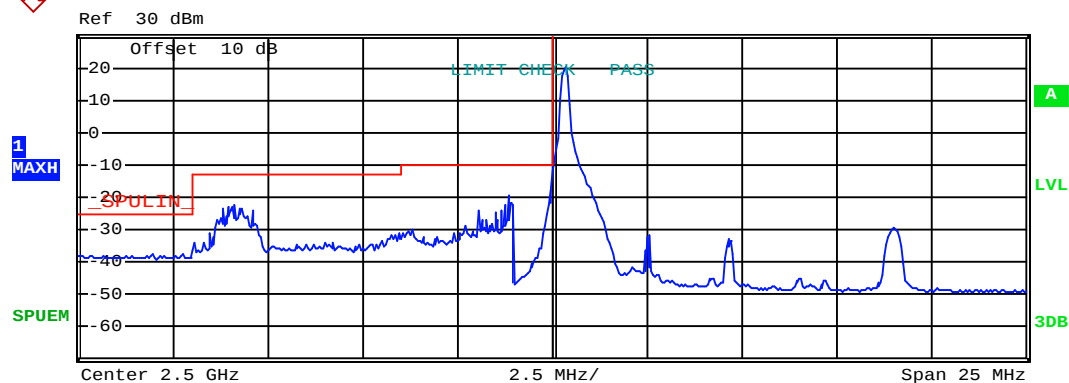


Highest channel

LTE band 7 part:

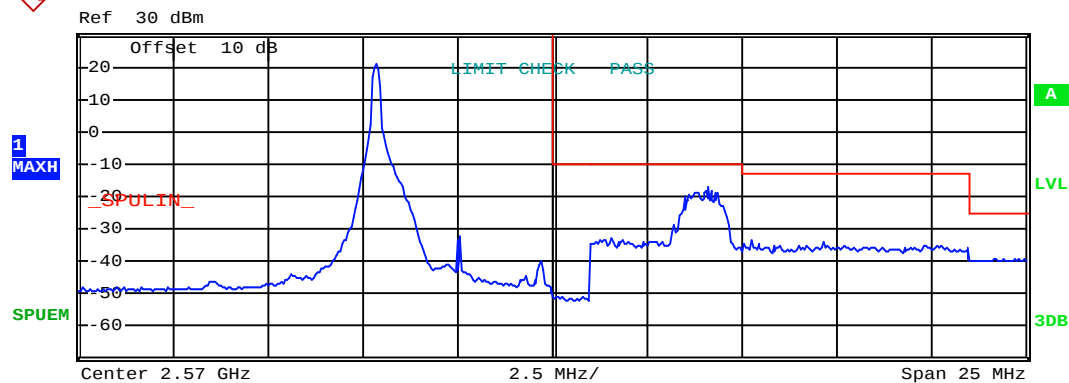
5MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
2.487 G	2.490 G	1.00 M	2.490248 G	-37.45	-12.45
2.490 G	2.496 G	1.00 M	2.491578 G	-22.58	-9.58
2.496 G	2.499 G	1.00 M	2.498868 G	-19.54	-9.54
2.499 G	2.500 G	30.00 k	2.499992 G	-17.37	-7.37
2.500 G	2.513 G	100.00 k	2.500325 G	20.12	-12.88

Lowest channel

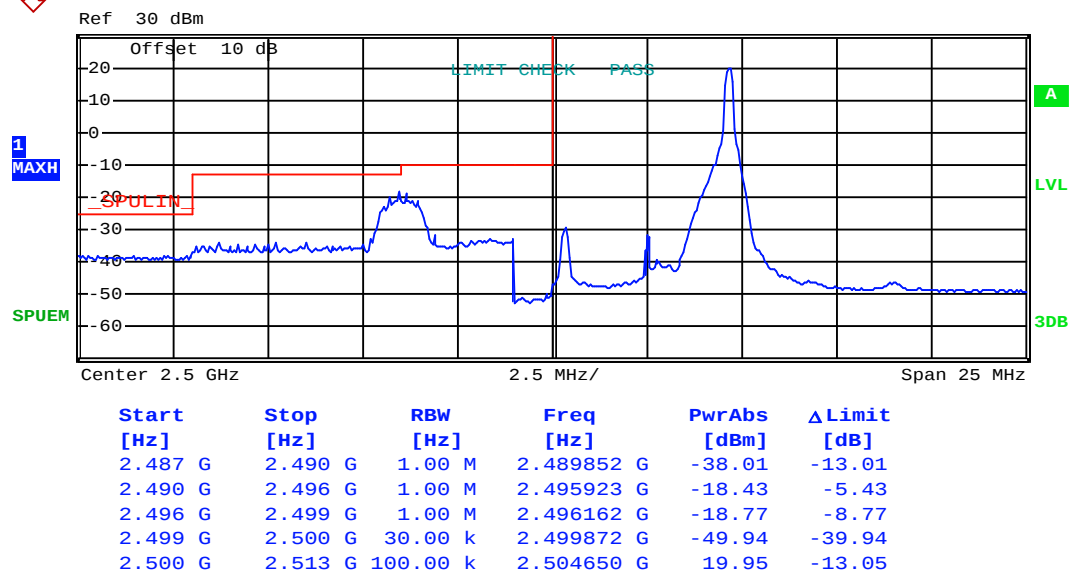


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
2.558 G	2.570 G	100.00 k	2.565350 G	20.67	-12.33
2.570 G	2.571 G	30.00 k	2.570158 G	-50.32	-40.32
2.571 G	2.575 G	1.00 M	2.574096 G	-16.98	-6.98
2.575 G	2.581 G	1.00 M	2.575216 G	-33.67	-20.67
2.581 G	2.583 G	1.00 M	2.581678 G	-39.38	-14.38

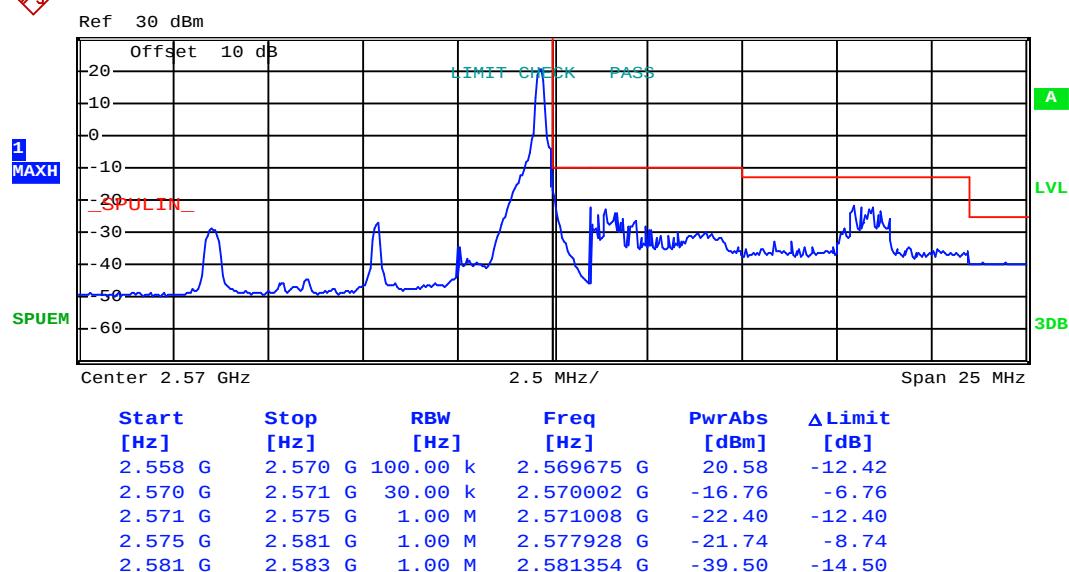
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 1 & RB Offset 24)



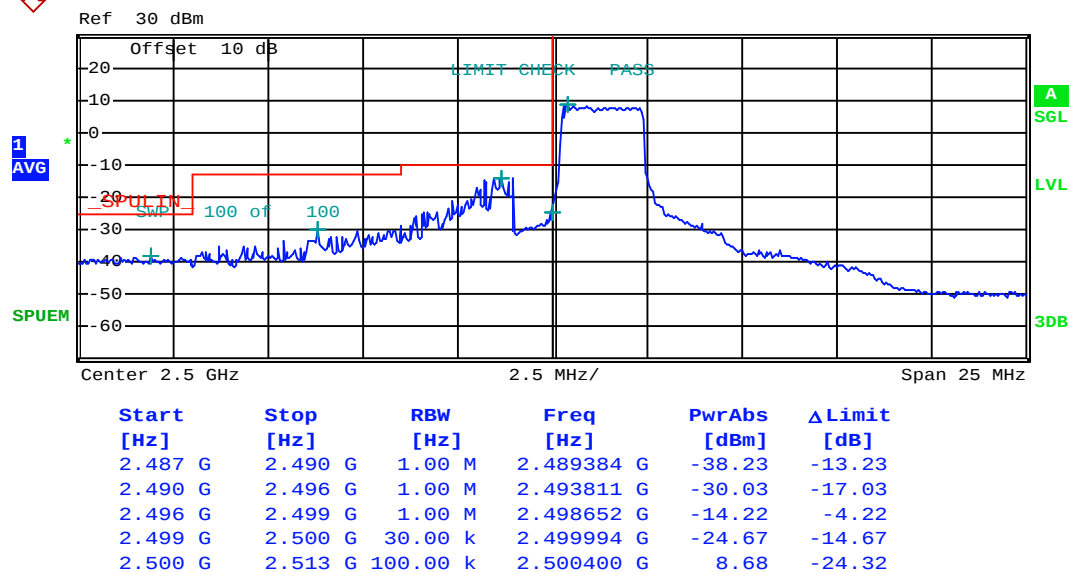
Lowest channel



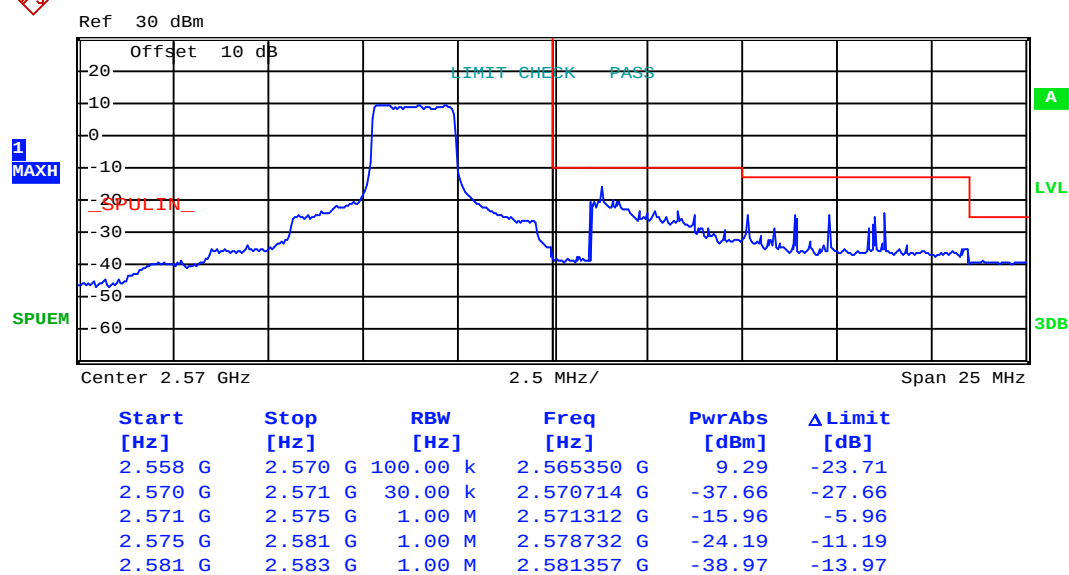
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 12 & RB Offset 0)



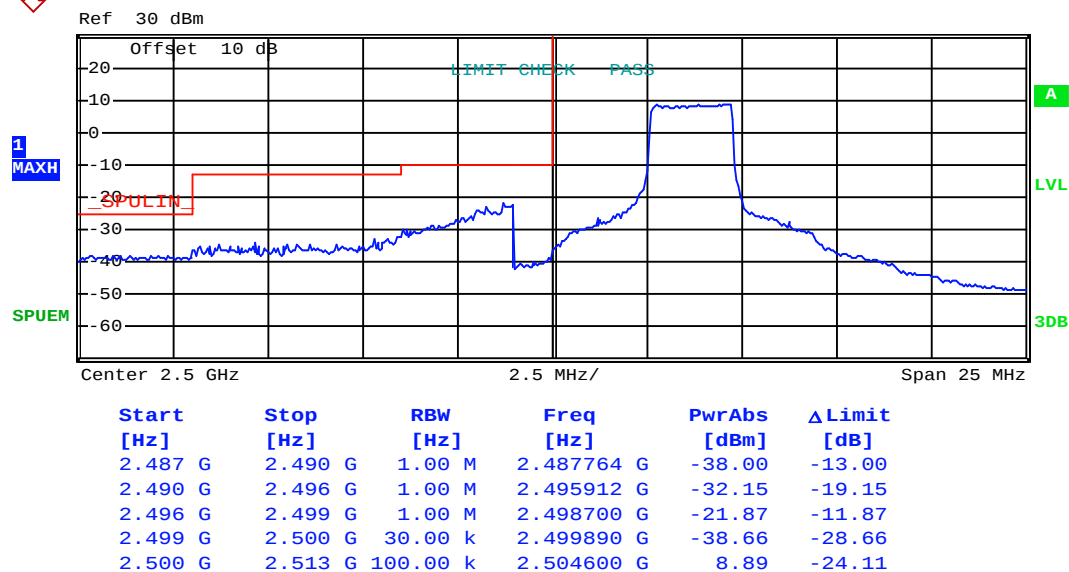
Lowest channel



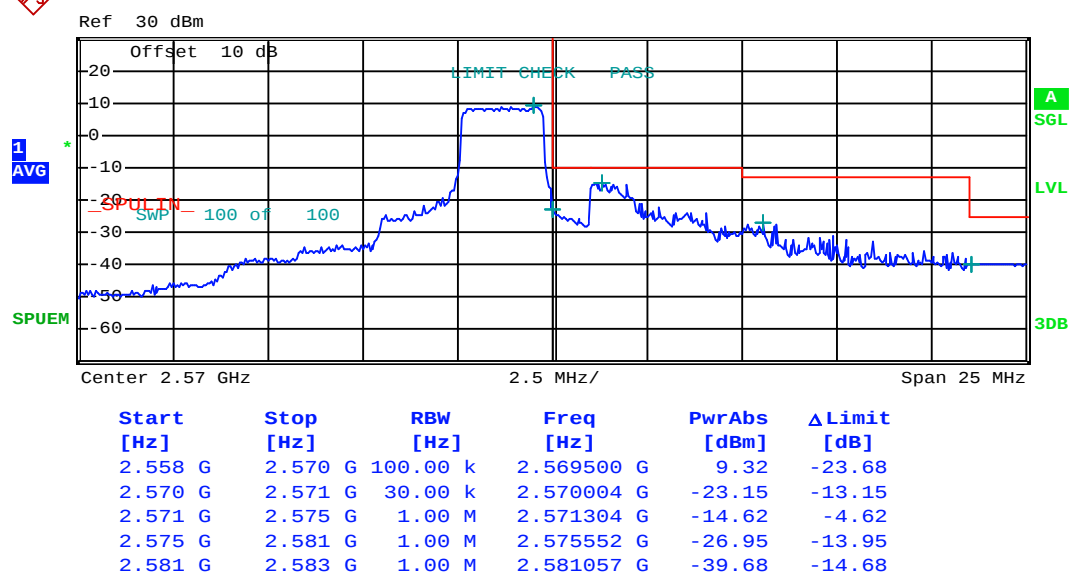
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 12 & RB Offset 11)



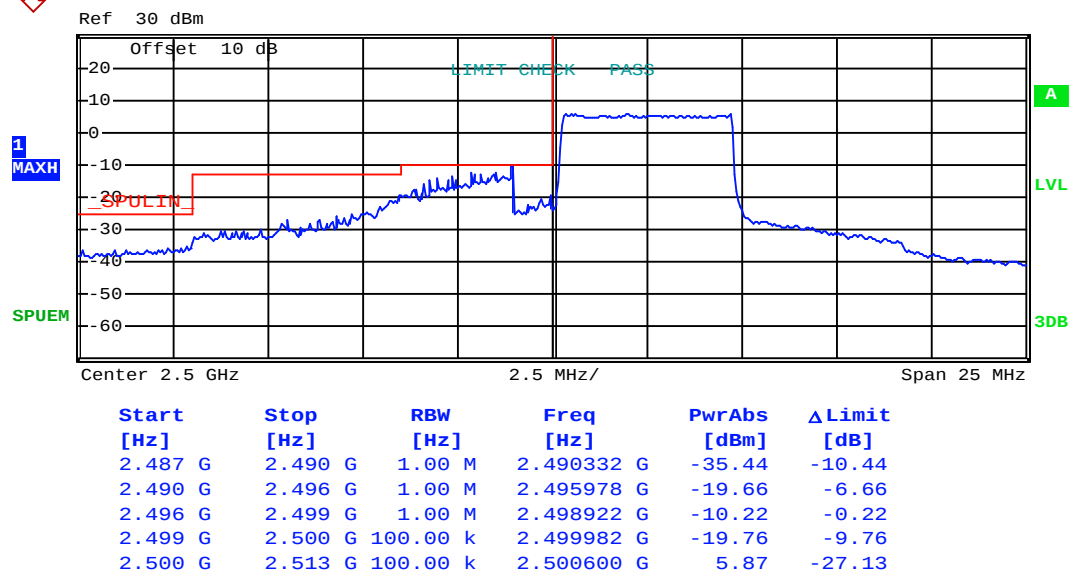
Lowest channel



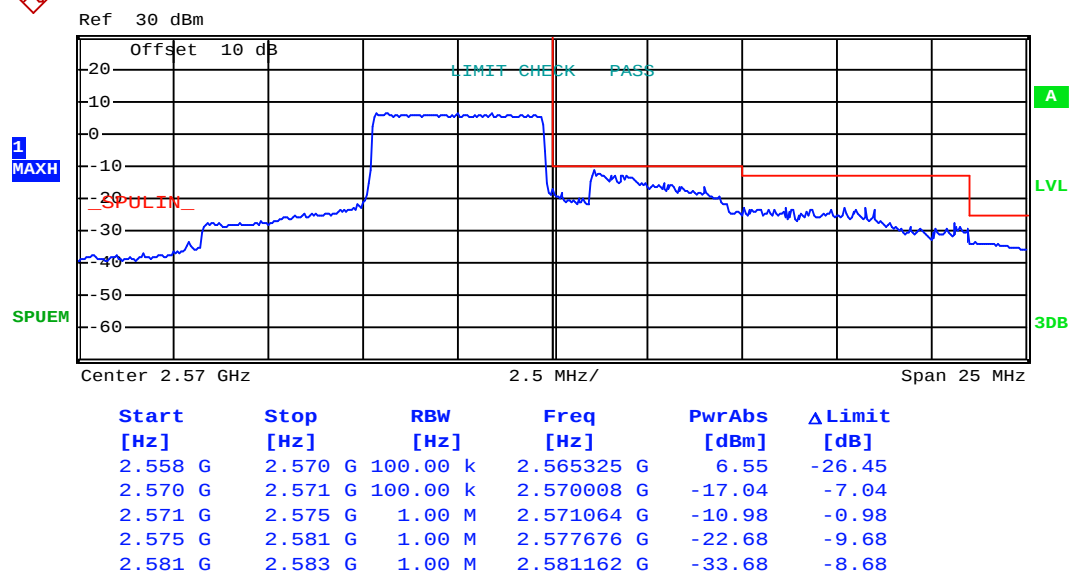
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 25 & RB Offset 0)



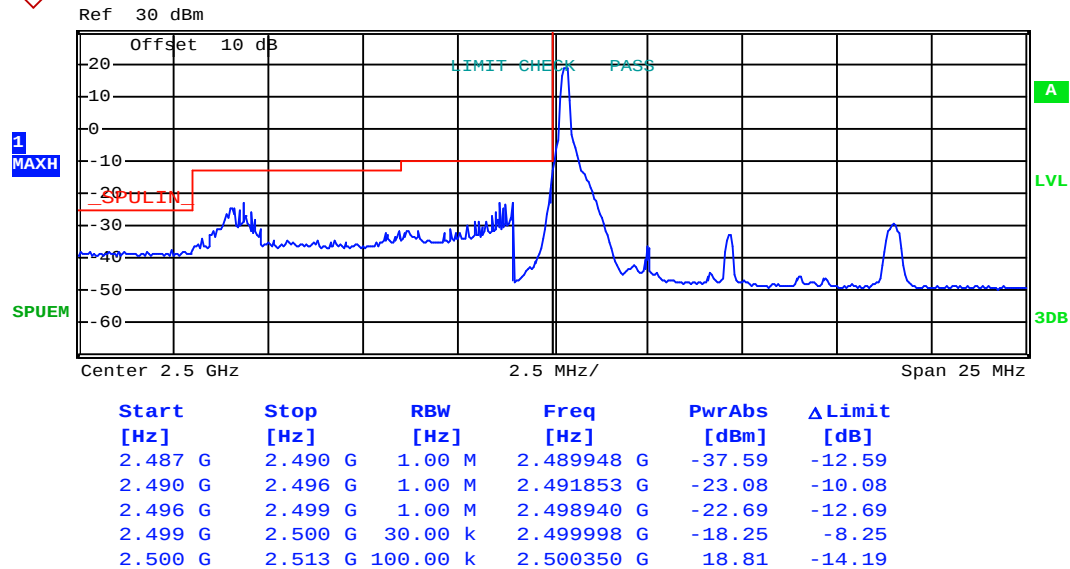
Lowest channel



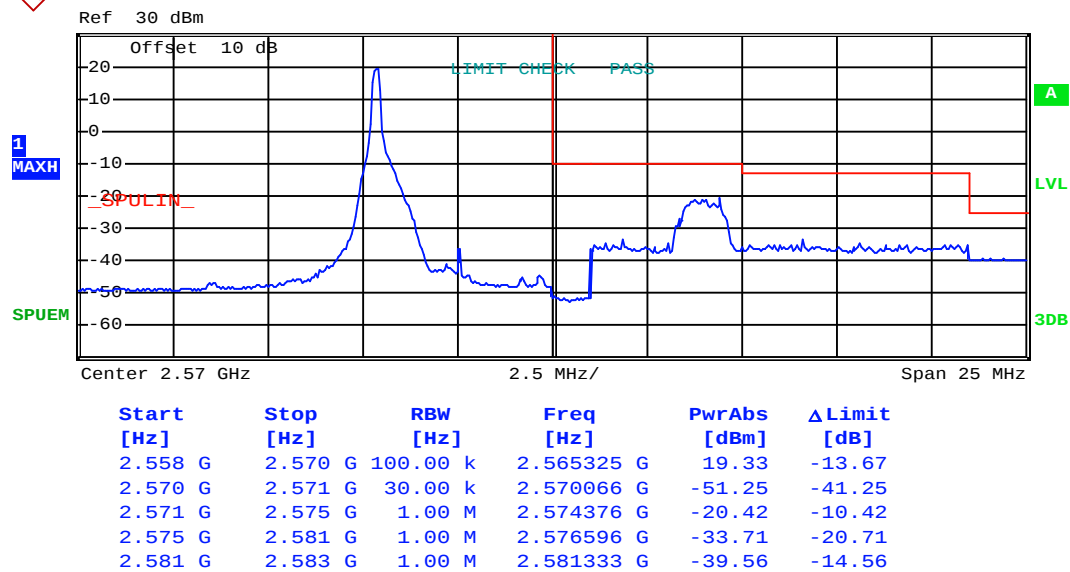
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 0)



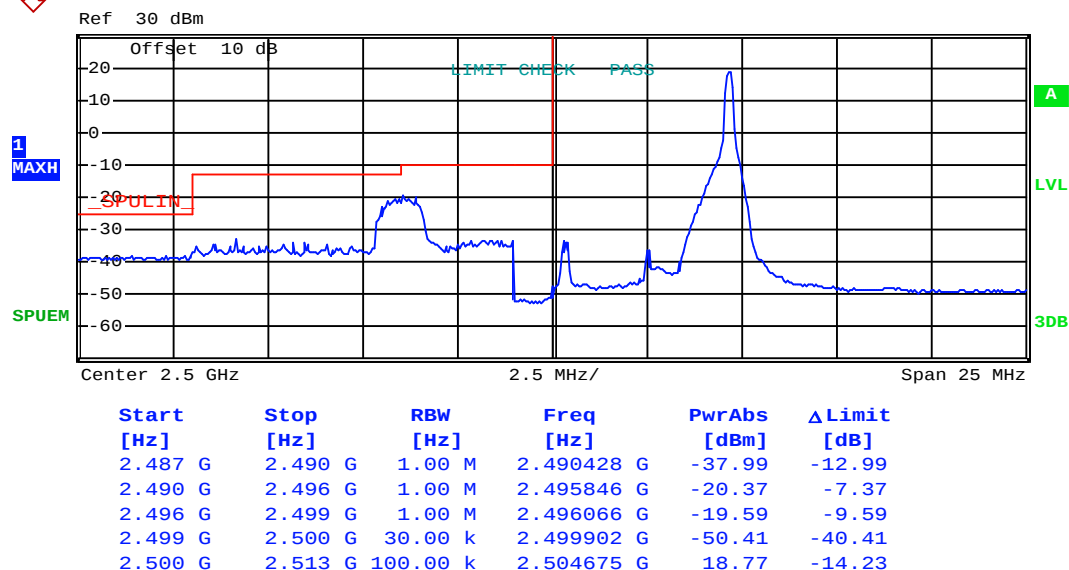
Lowest channel



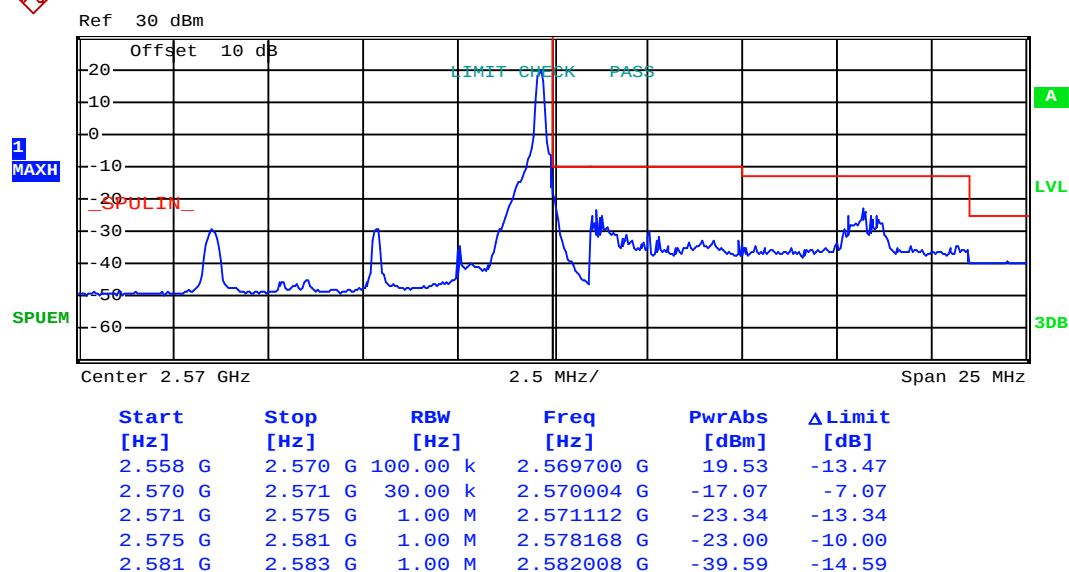
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 24)



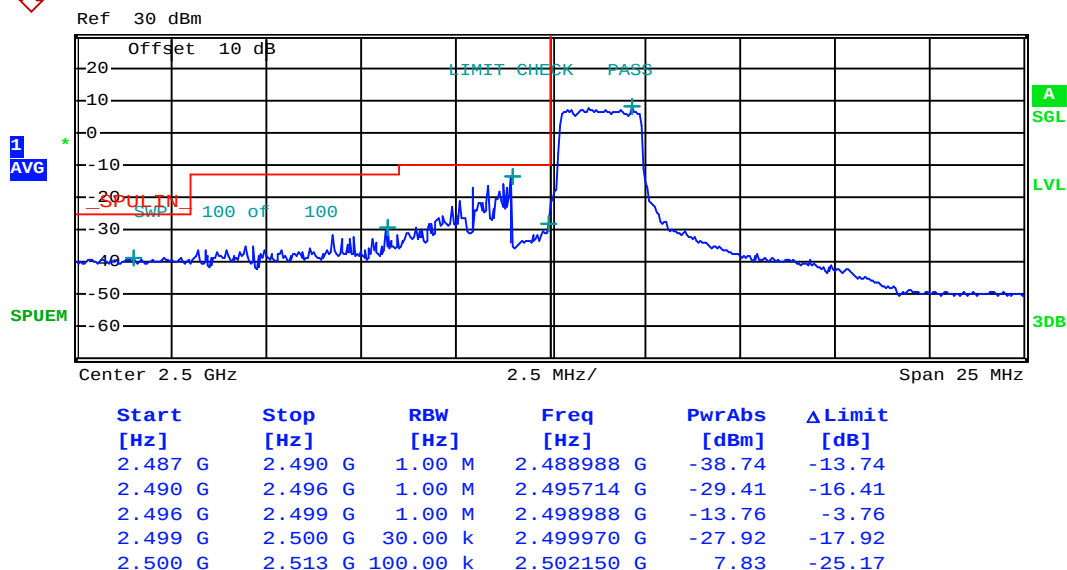
Lowest channel



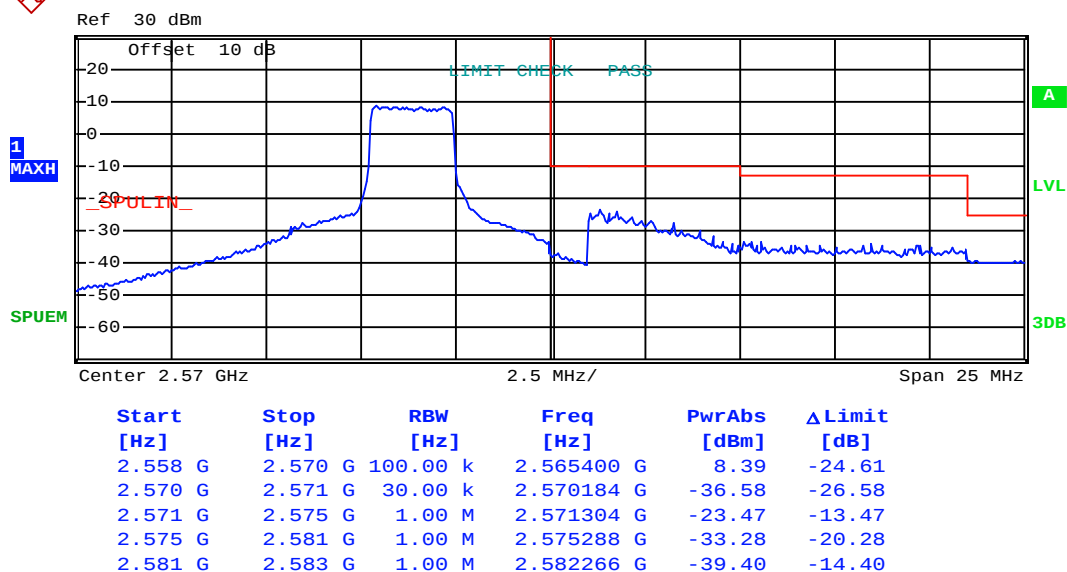
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 12 & RB Offset 0)

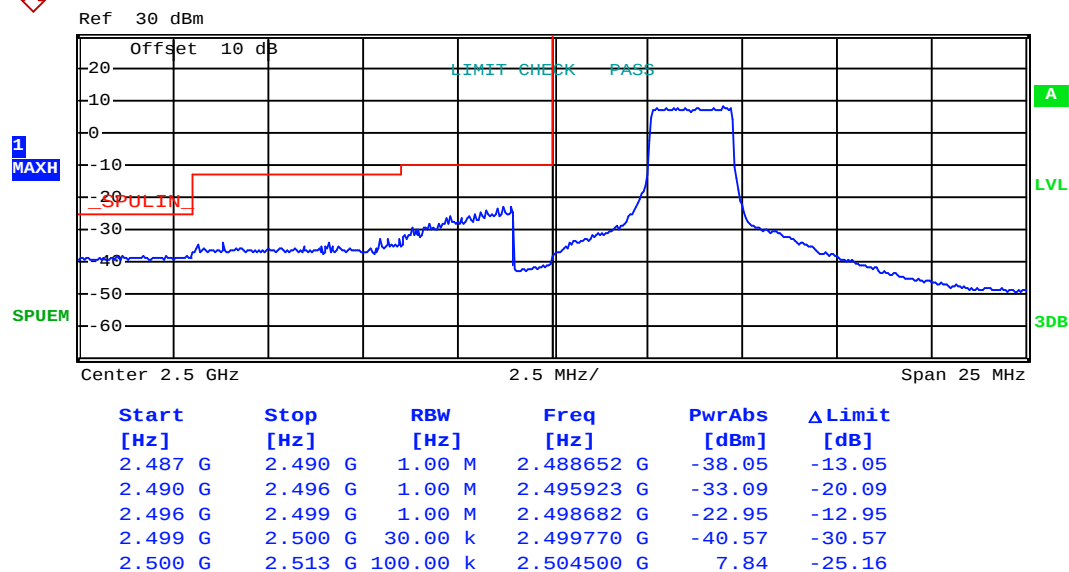


Lowest channel

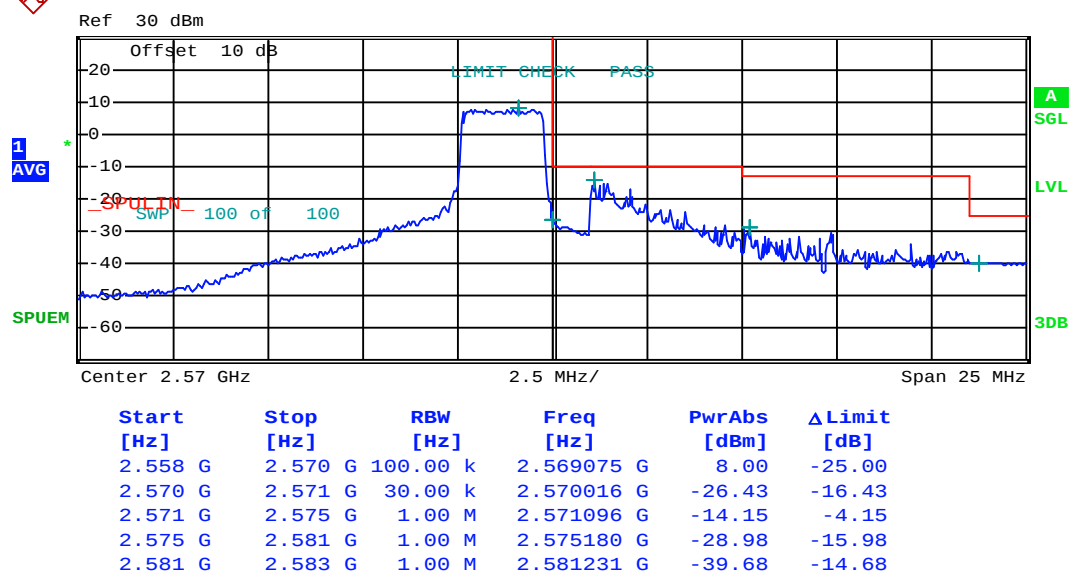


Highest channel

Test Mode:	LTE band 7(16QAM RB Size 12 & RB Offset 11)
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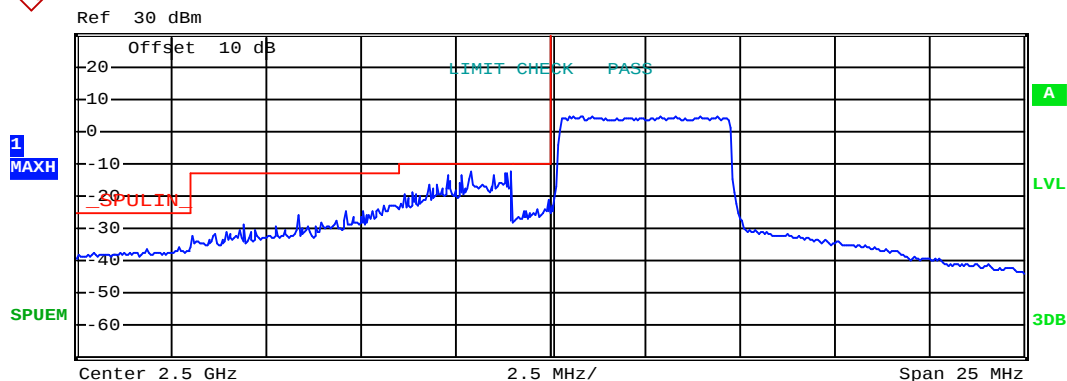
Lowest channel



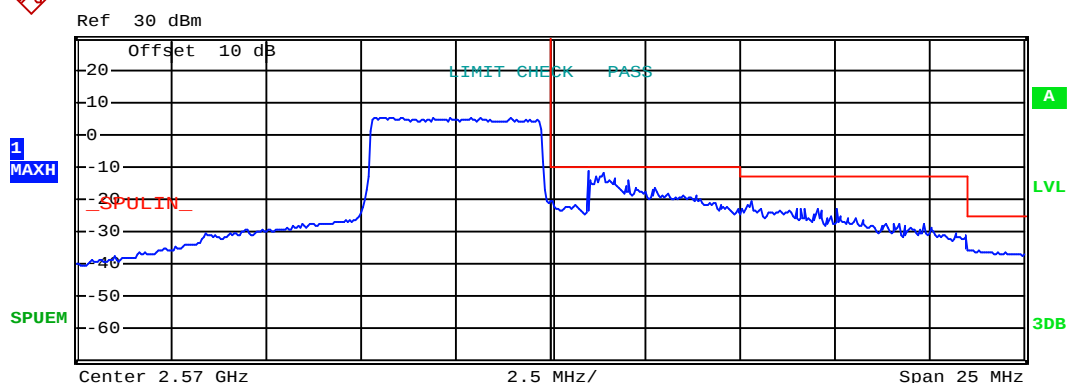
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 25 & RB Offset 0)



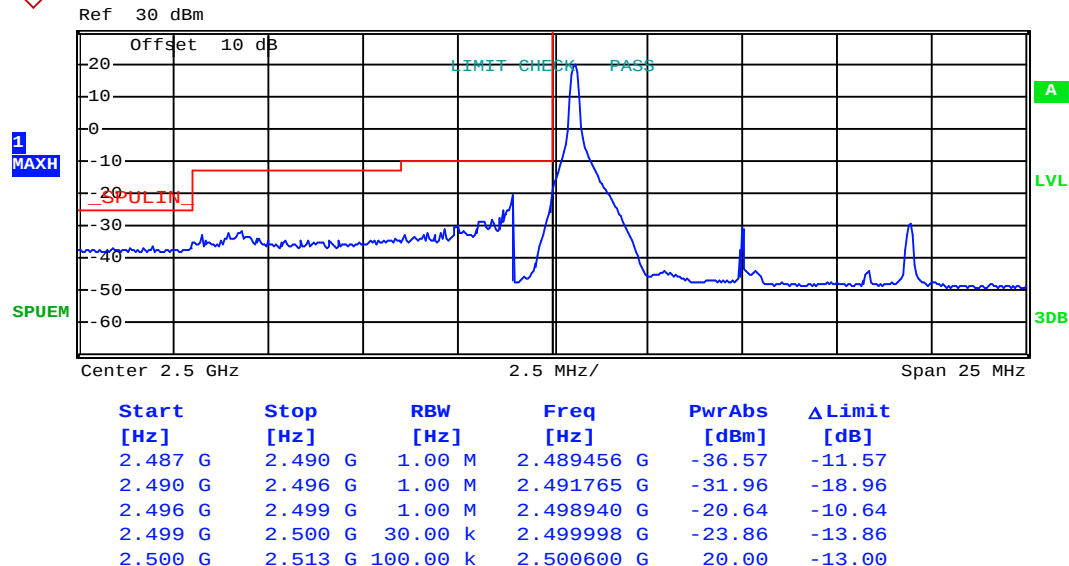
Lowest channel



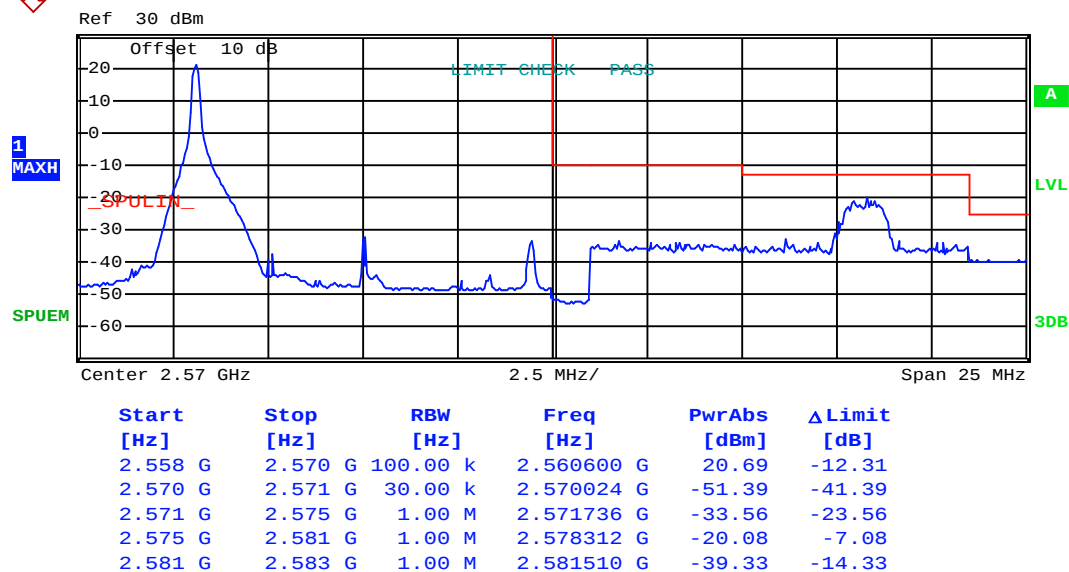
Highest channel

10MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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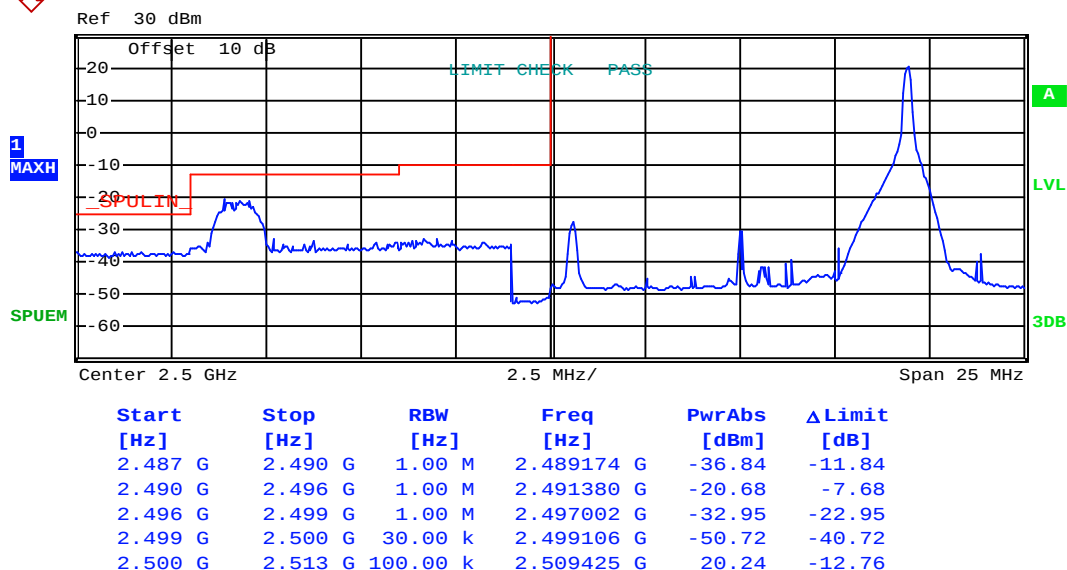
Lowest channel



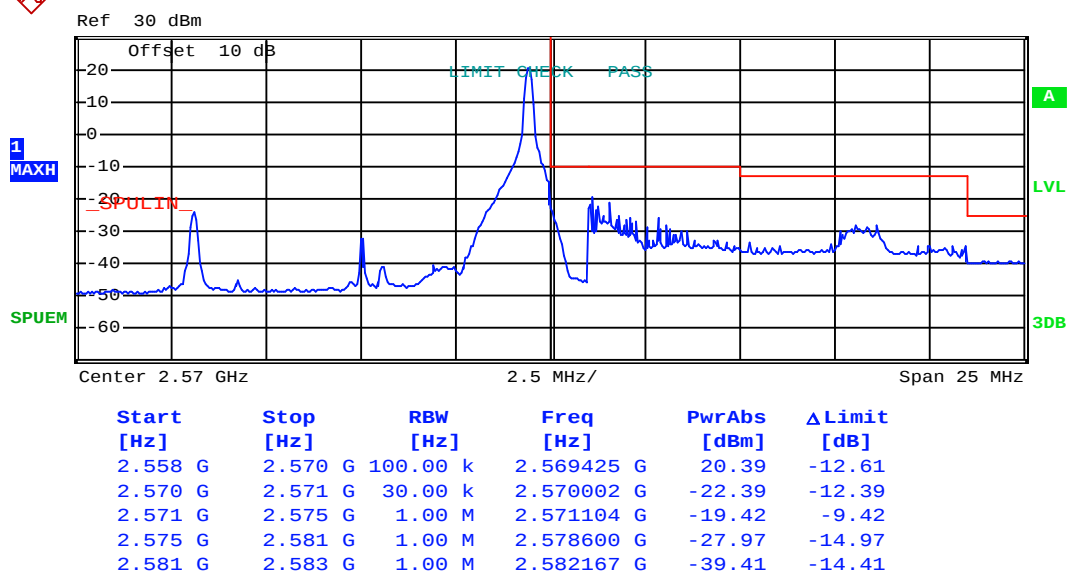
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 1 & RB Offset 49)



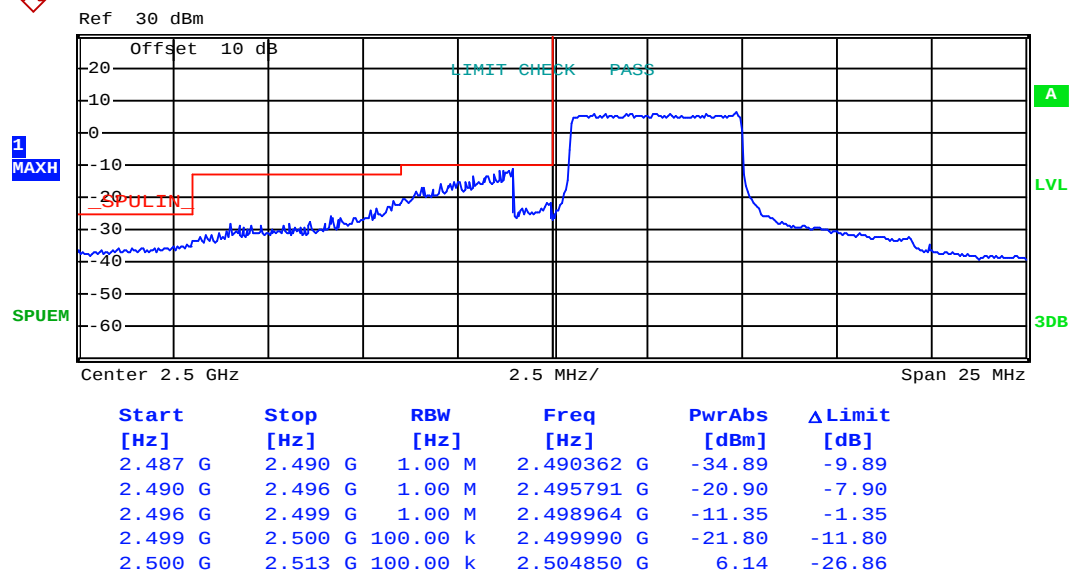
Lowest channel



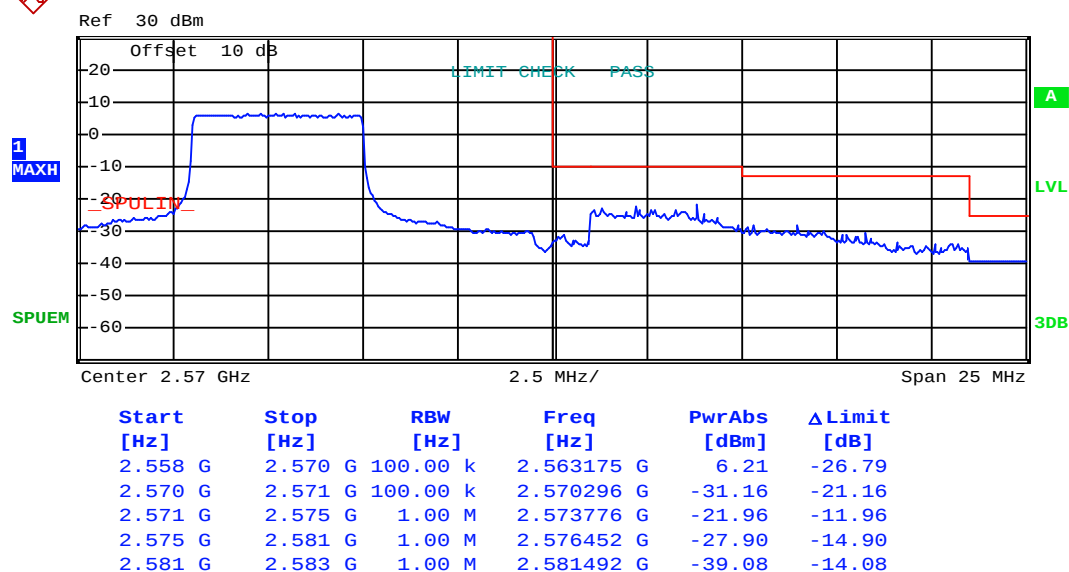
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 25 & RB Offset 0)



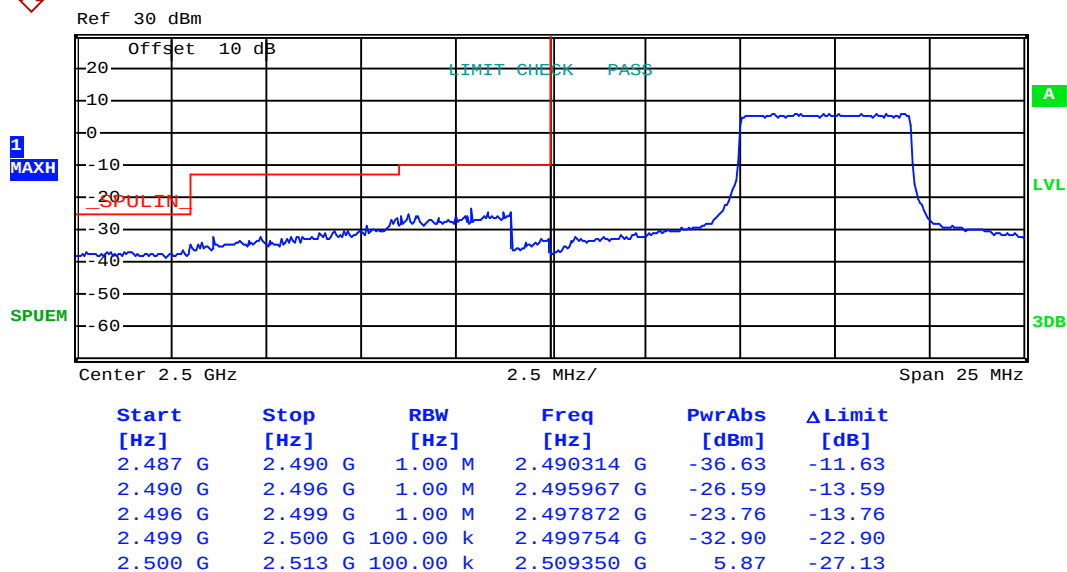
Lowest channel



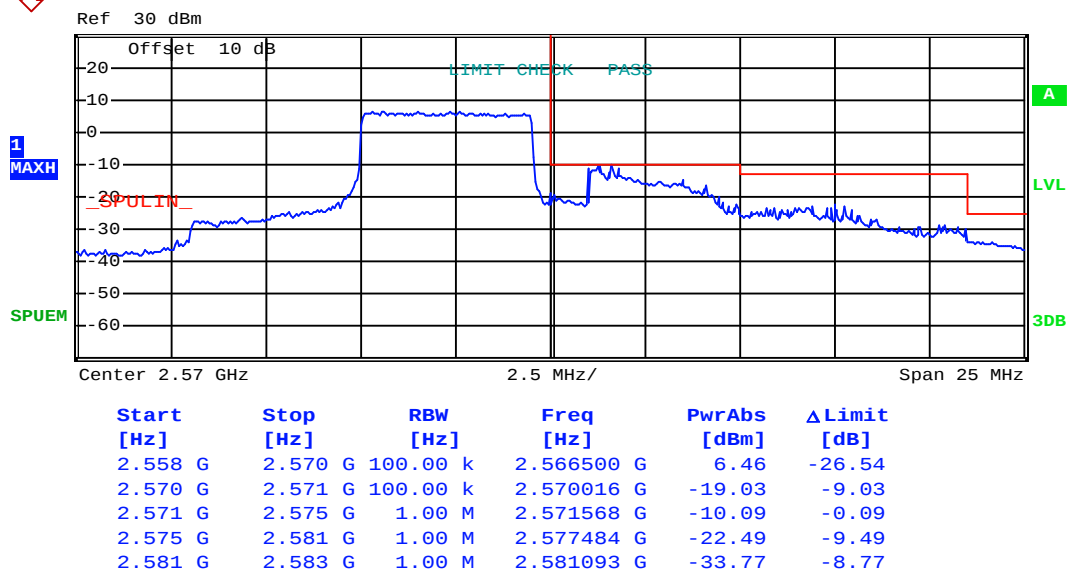
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 25 & RB Offset 24)



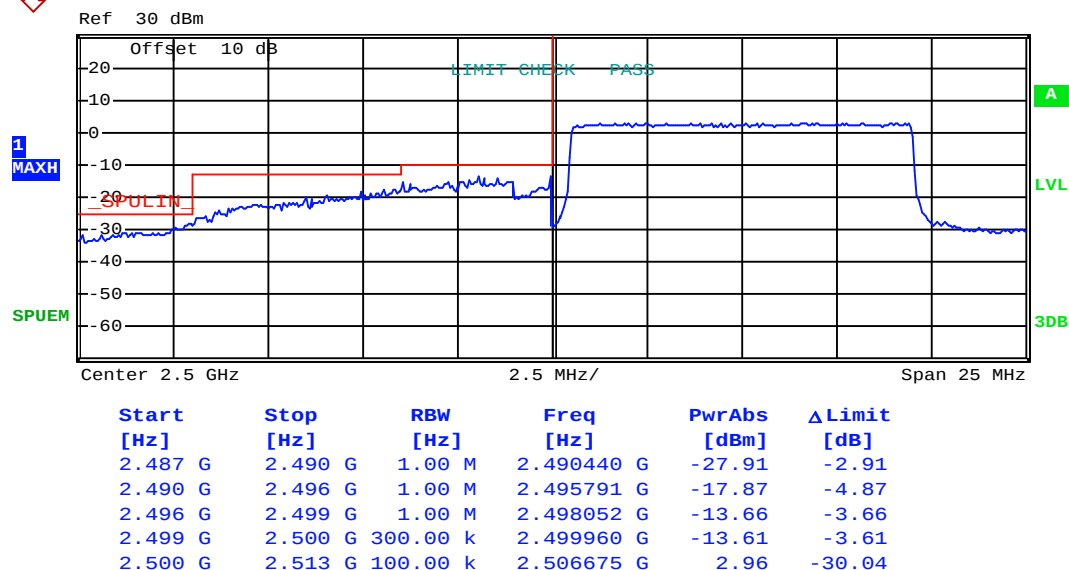
Lowest channel



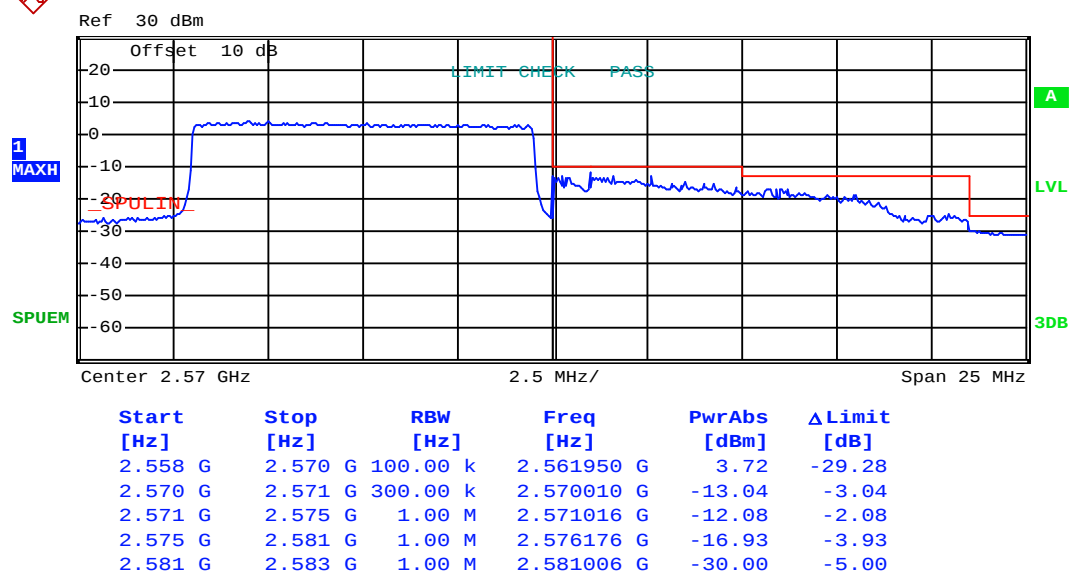
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 50 & RB Offset 0)



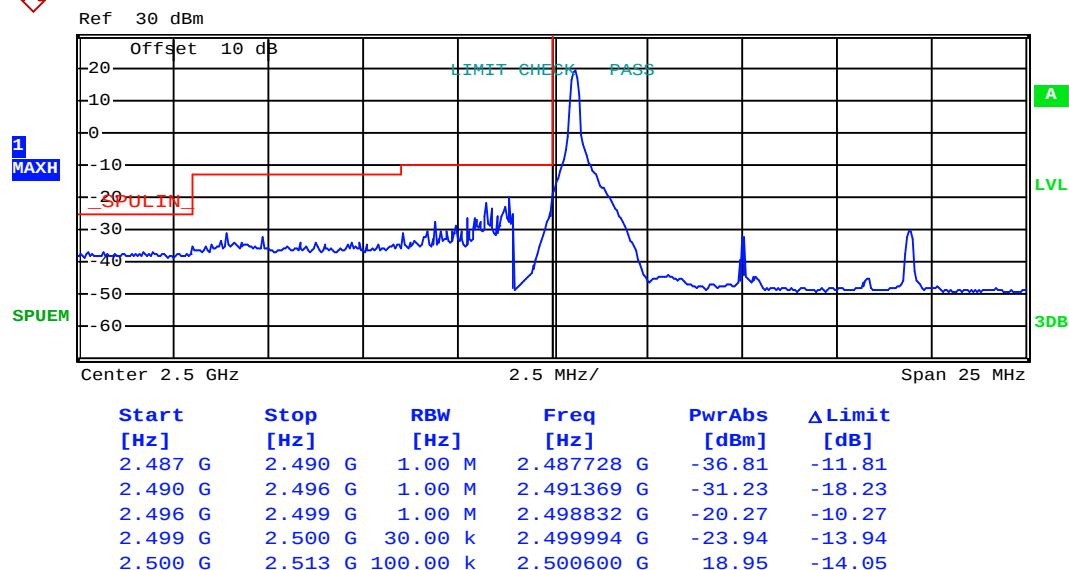
Lowest channel



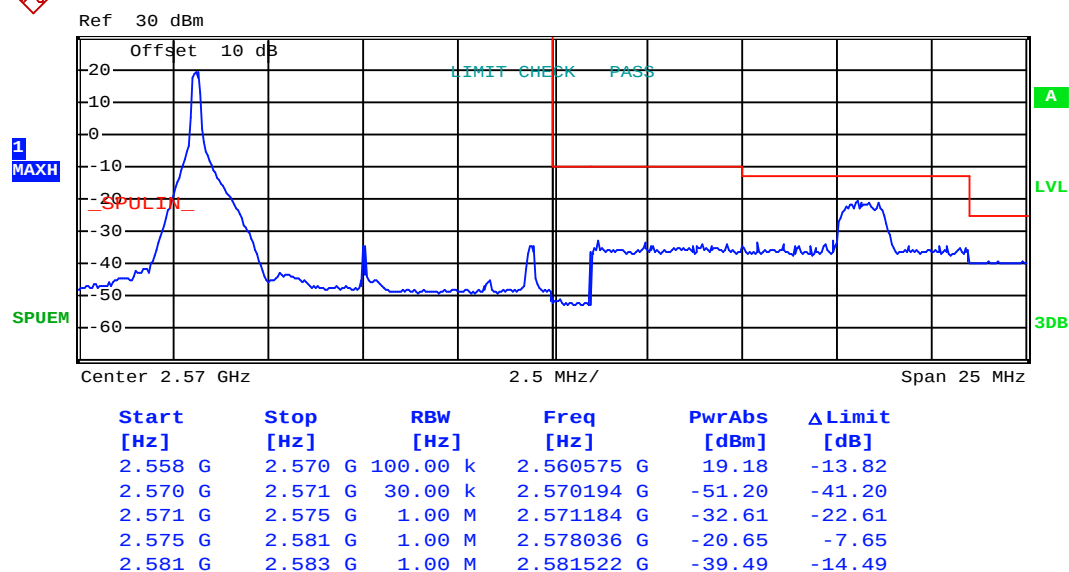
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 0)



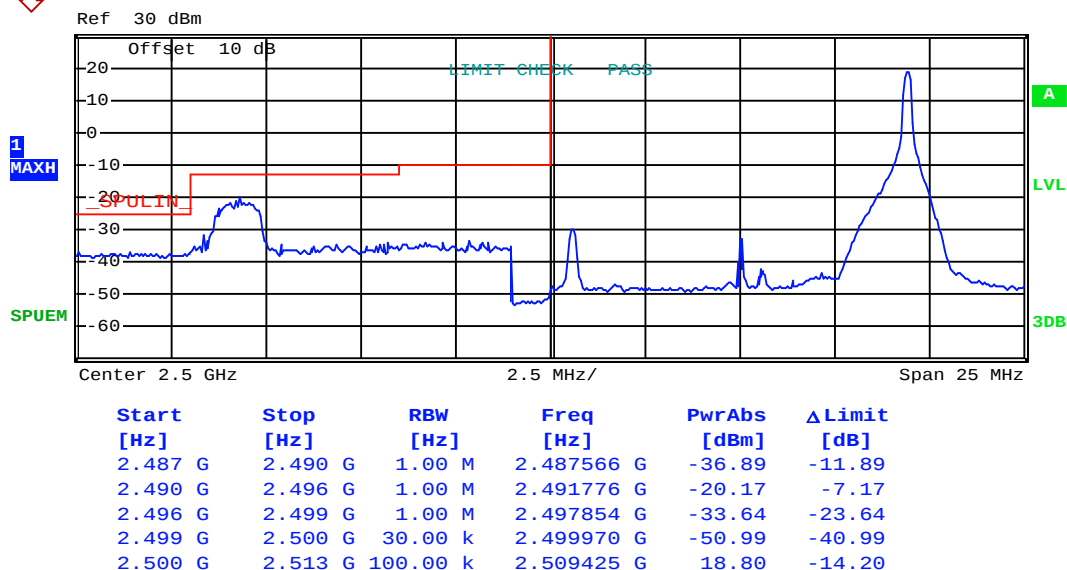
Lowest channel



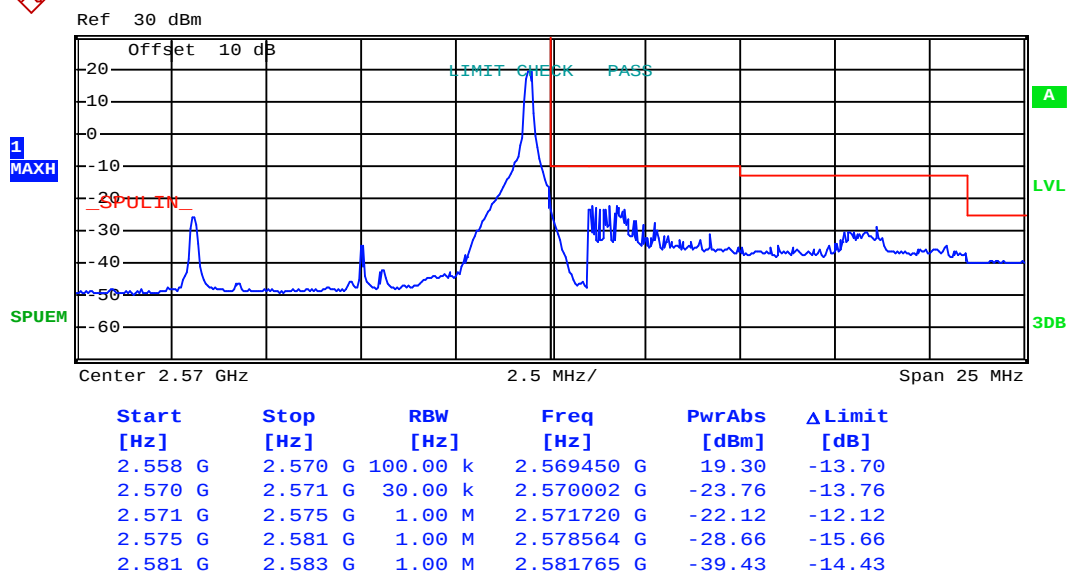
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 49)



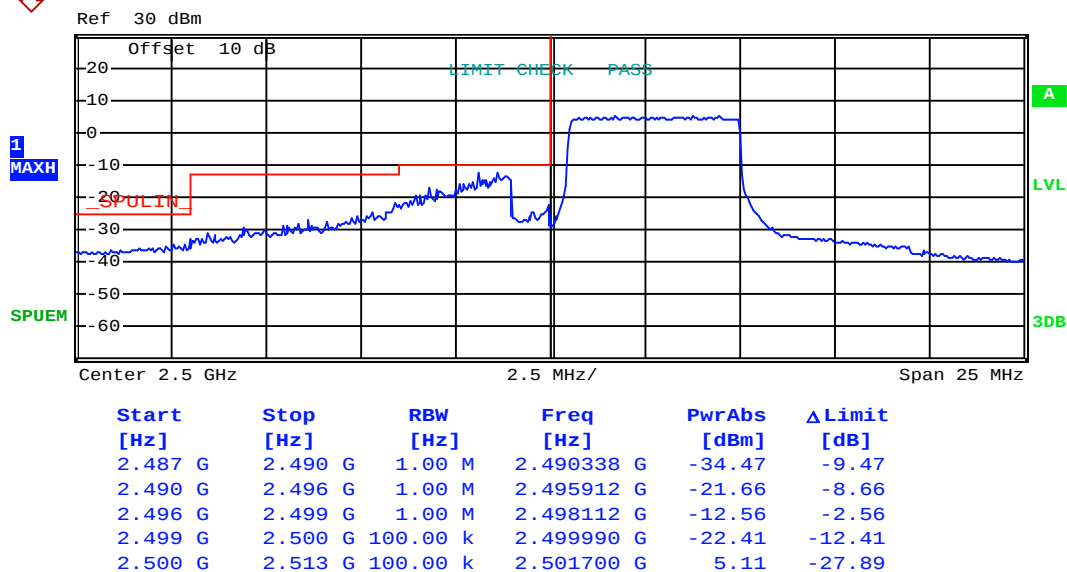
Lowest channel



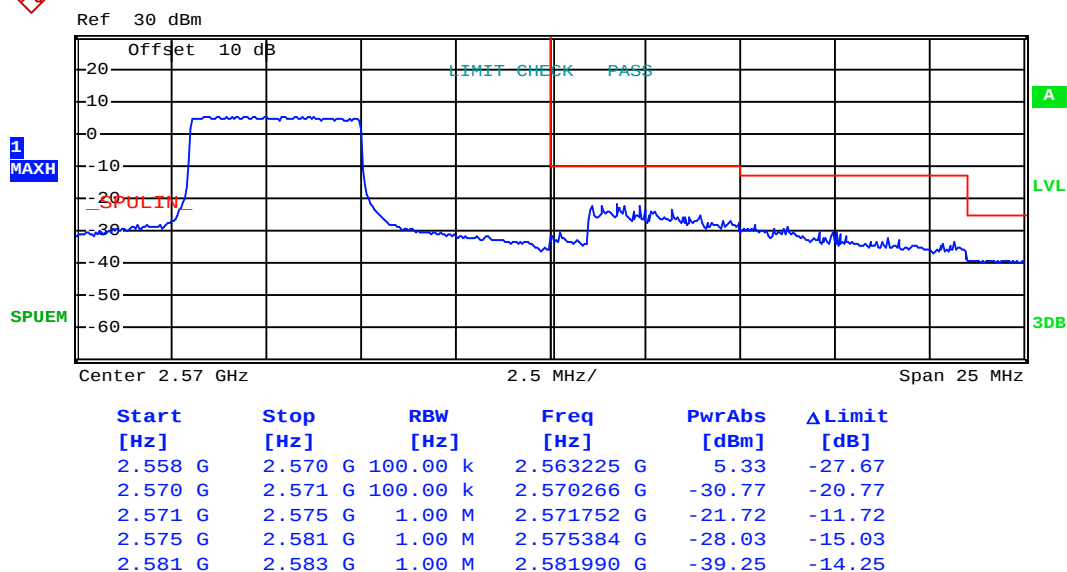
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 25 & RB Offset 0)



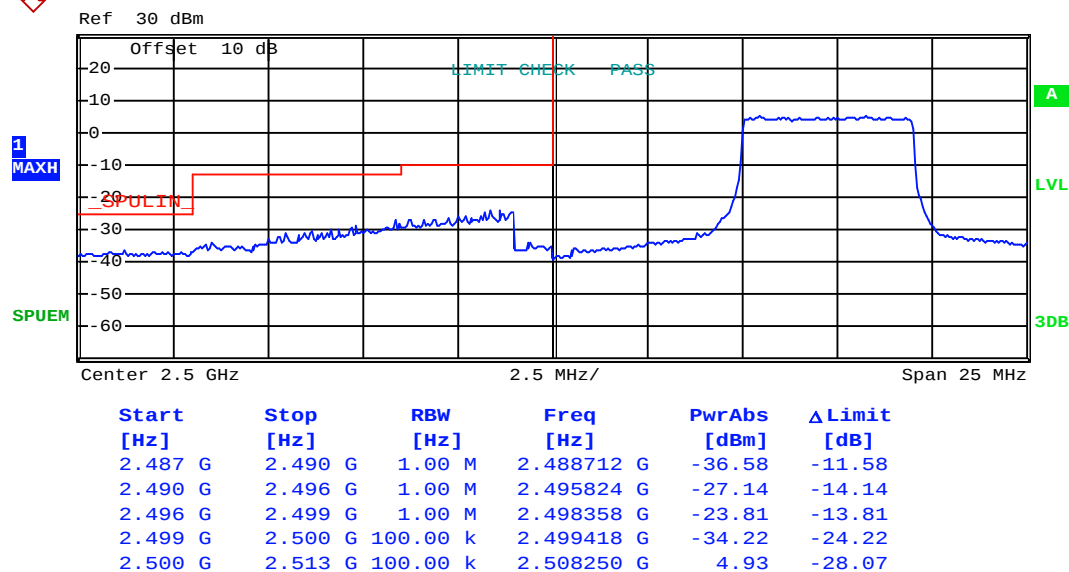
Lowest channel



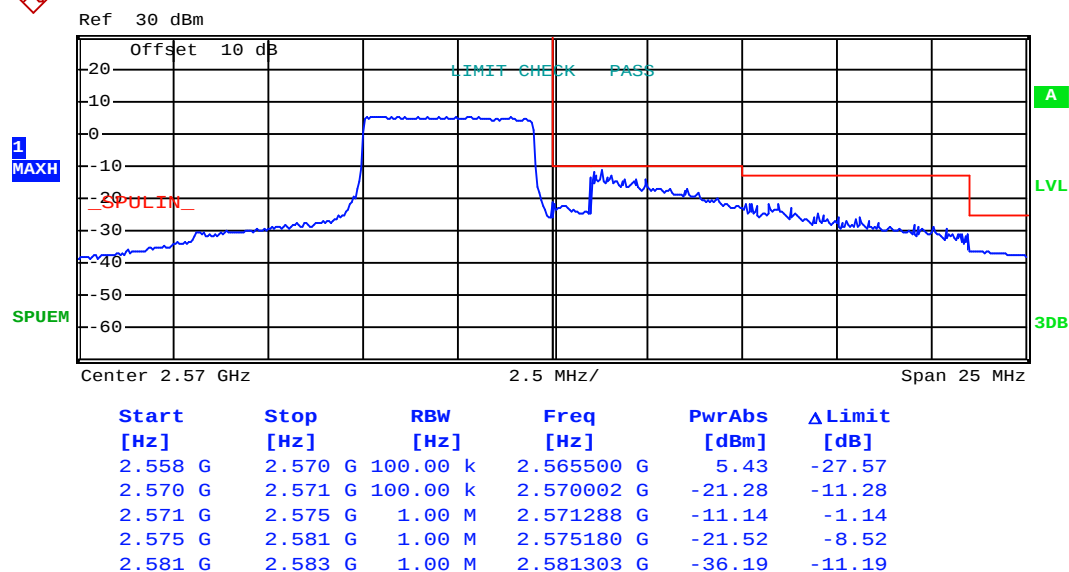
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 25 & RB Offset 24)



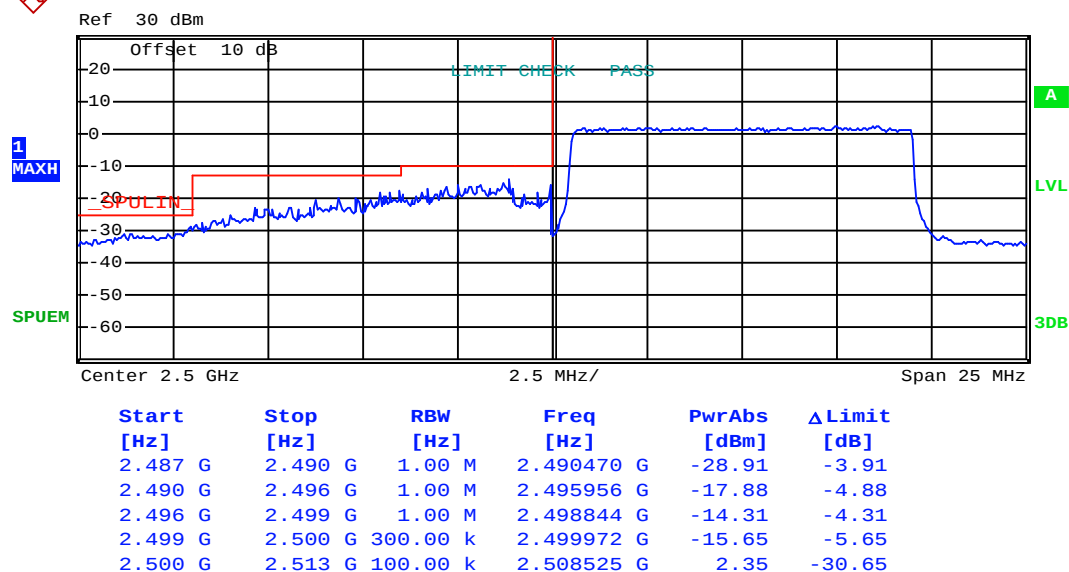
Lowest channel



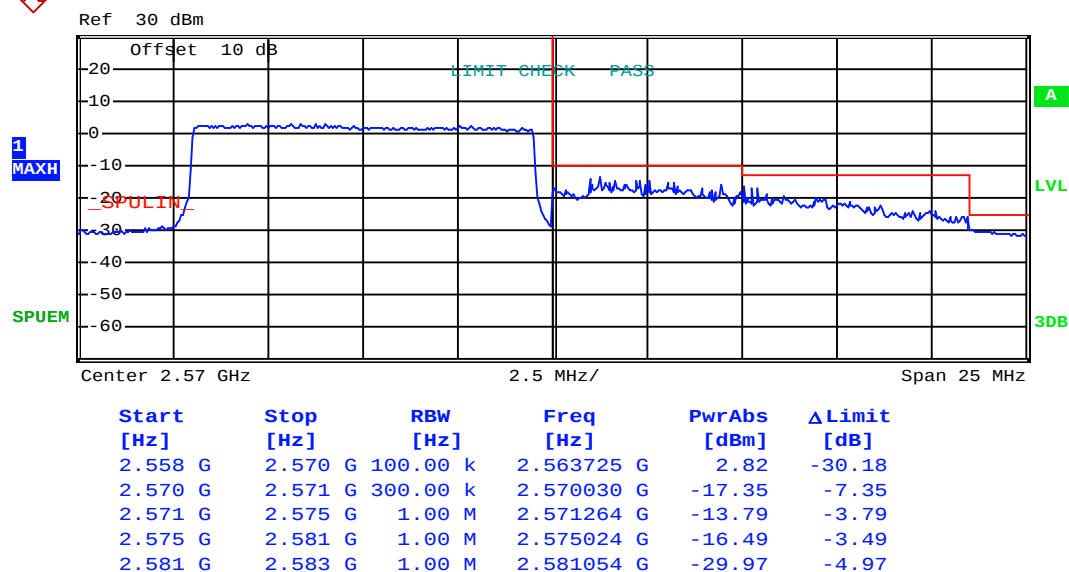
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 50 & RB Offset 0)



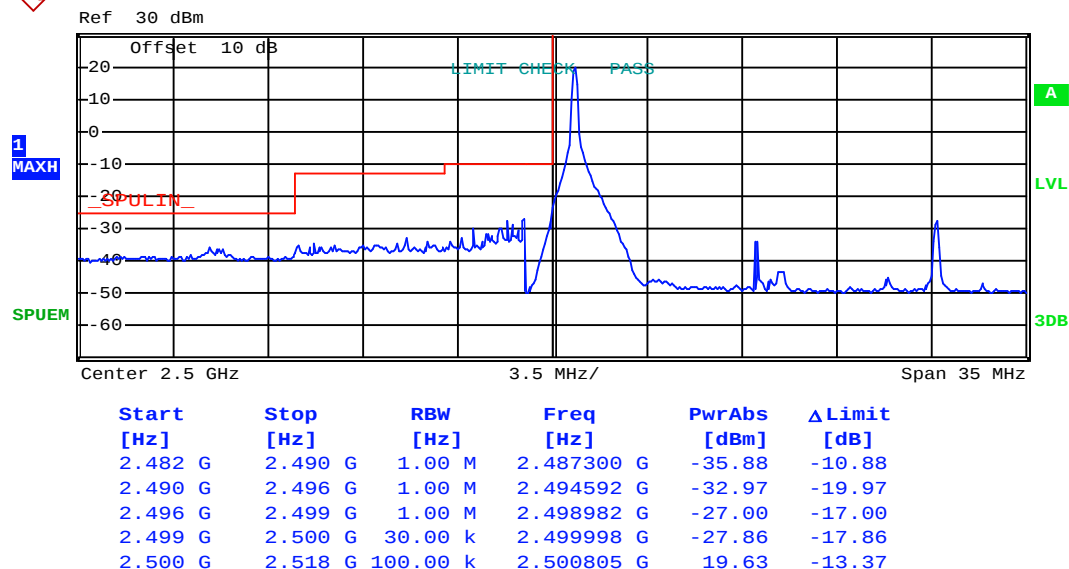
Lowest channel



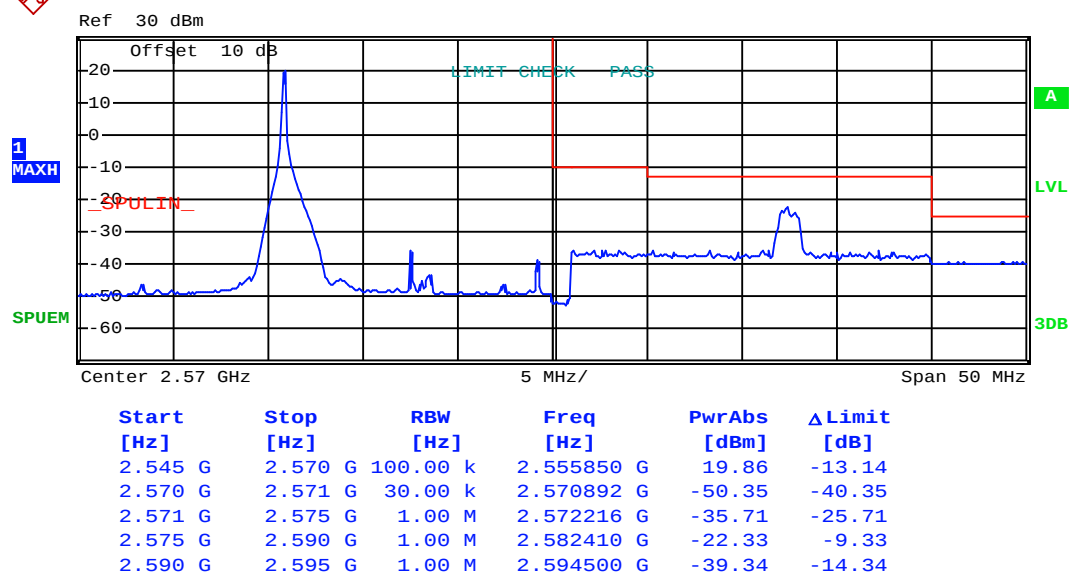
Highest channel

15MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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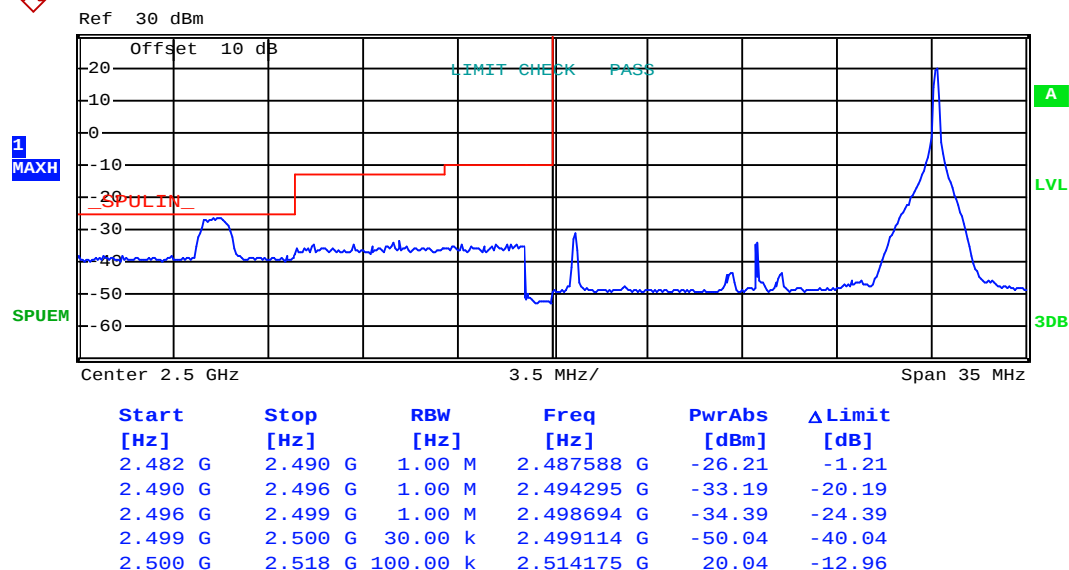
Lowest channel



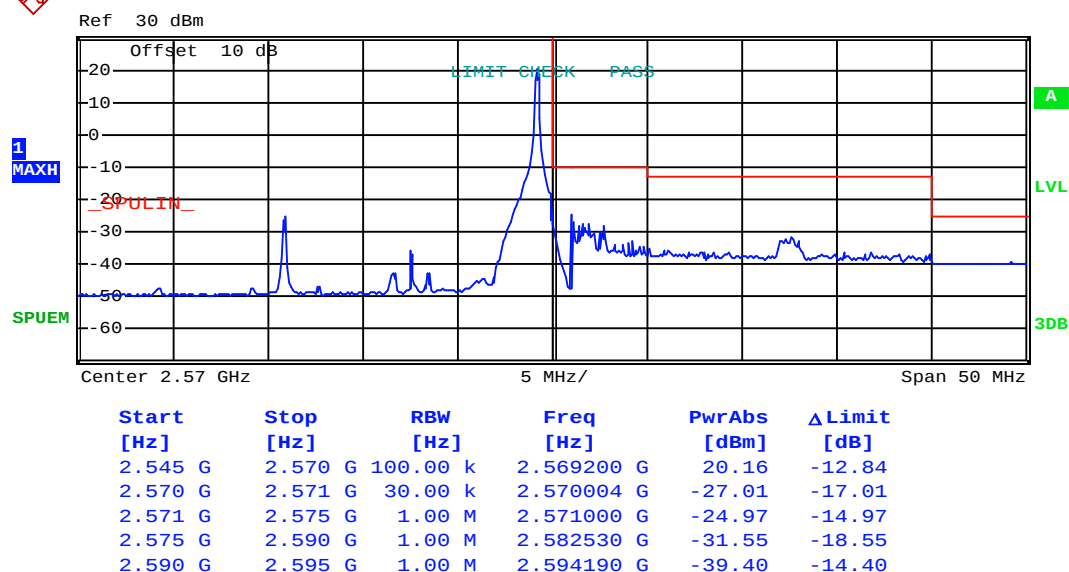
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 1 & RB Offset 74)



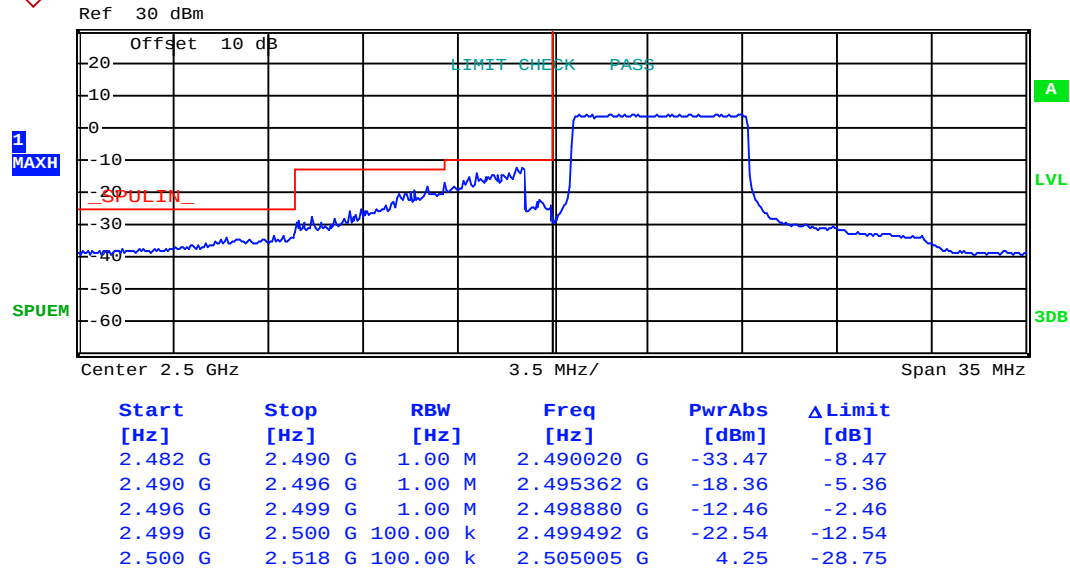
Lowest channel



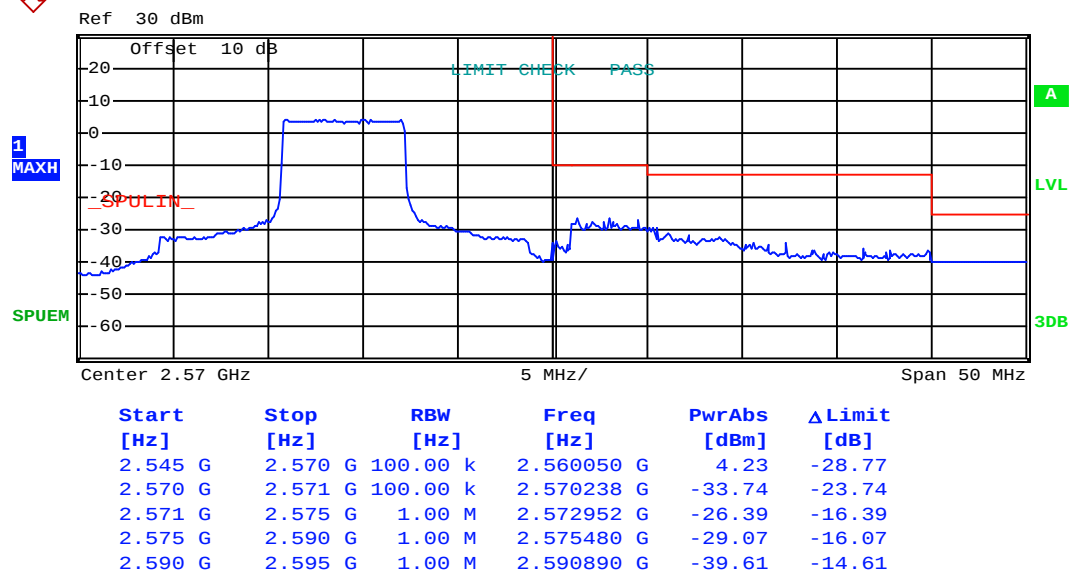
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 36 & RB Offset 0)

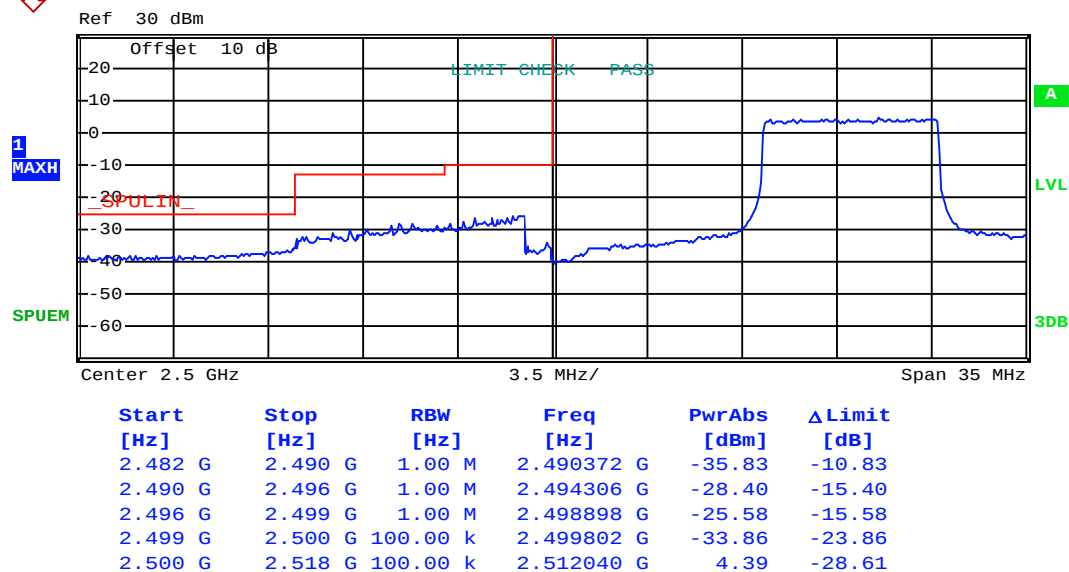


Lowest channel

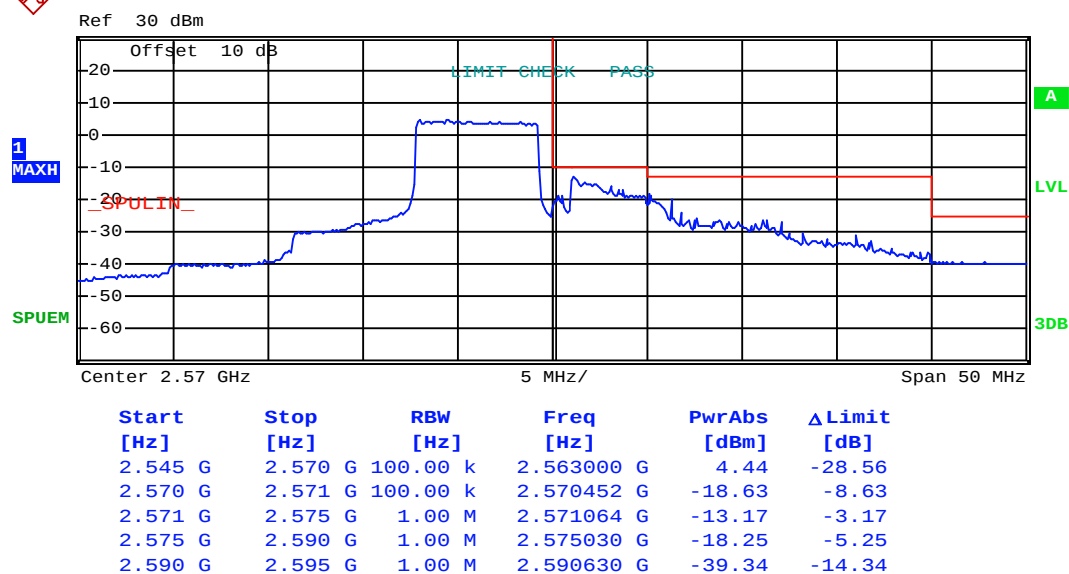


Highest channel

Test Mode:	LTE band 7(QPSK RB Size 36 & RB Offset 37)
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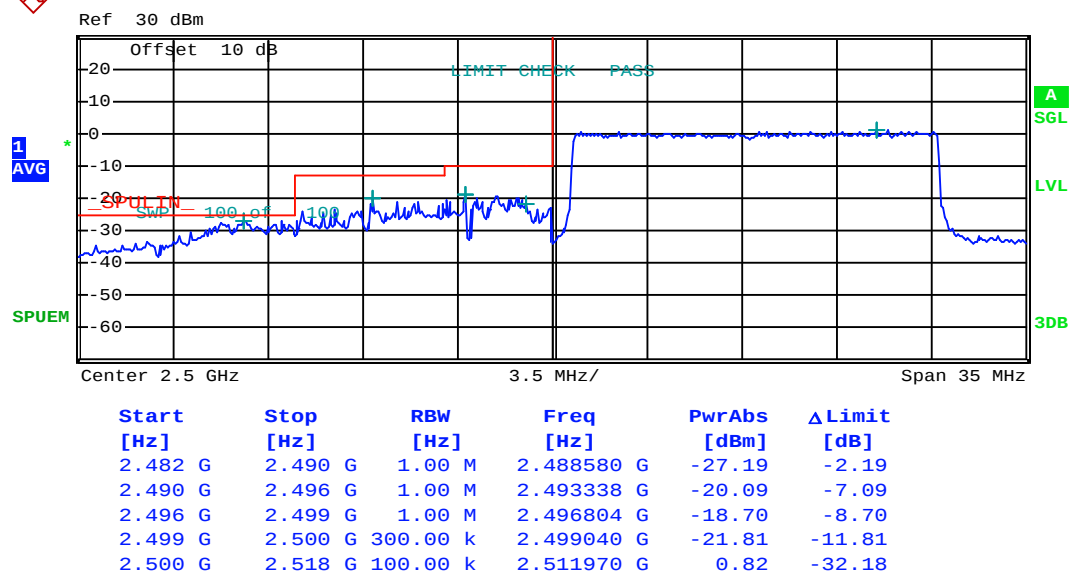
Lowest channel



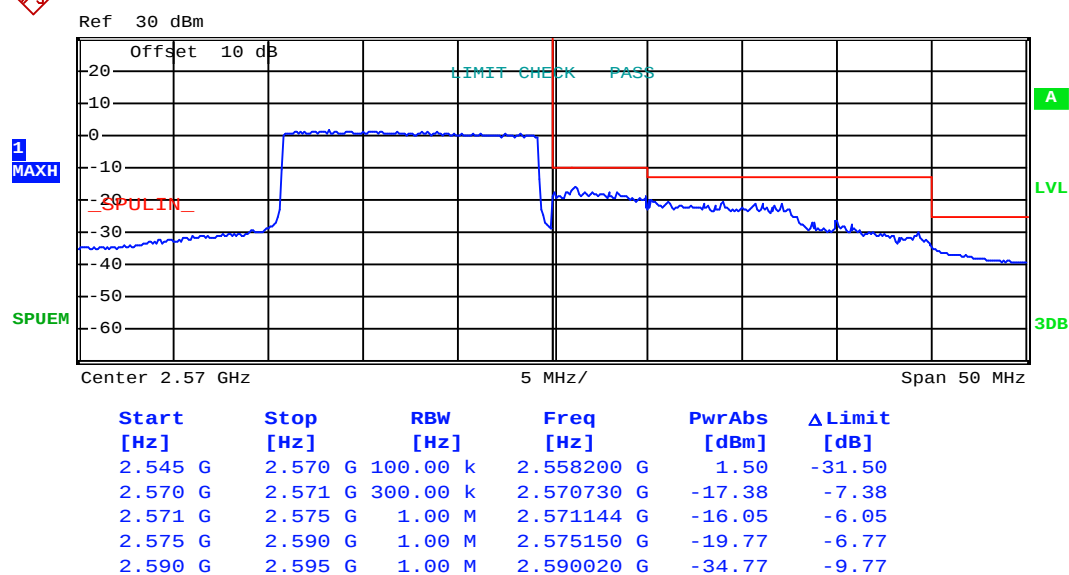
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 75 & RB Offset 0)



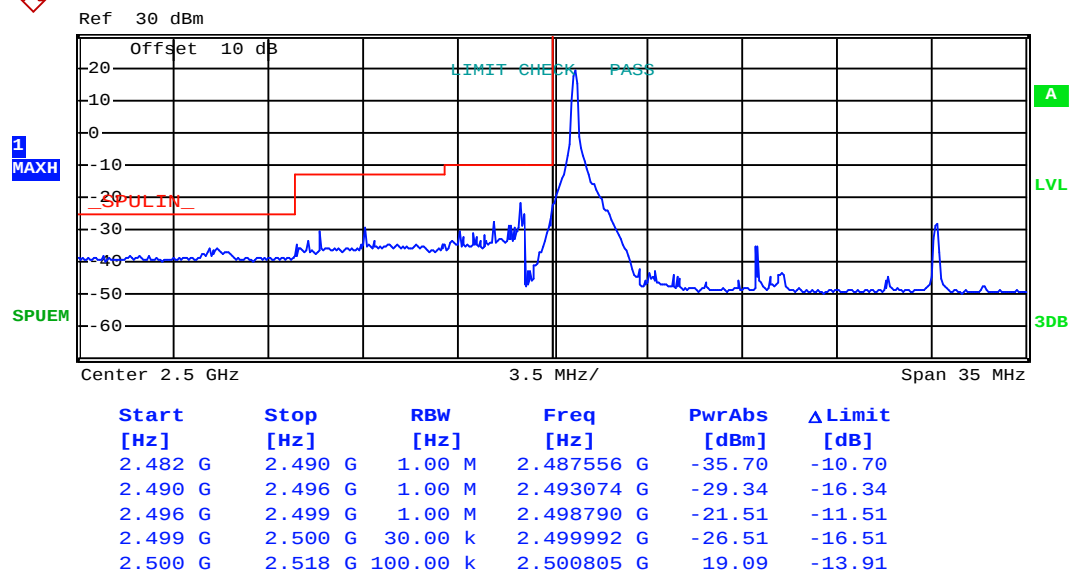
Lowest channel



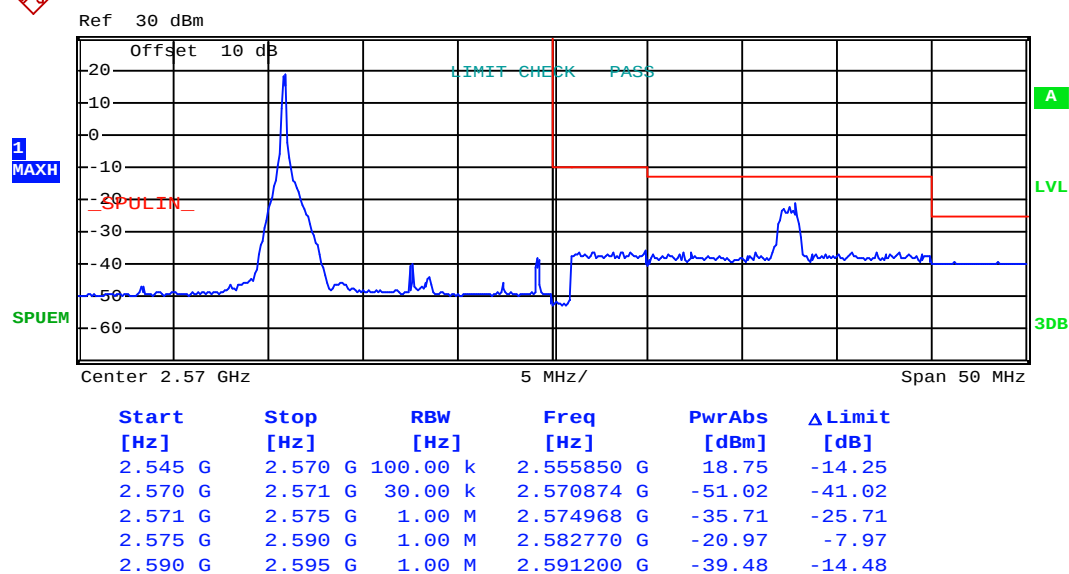
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 0)



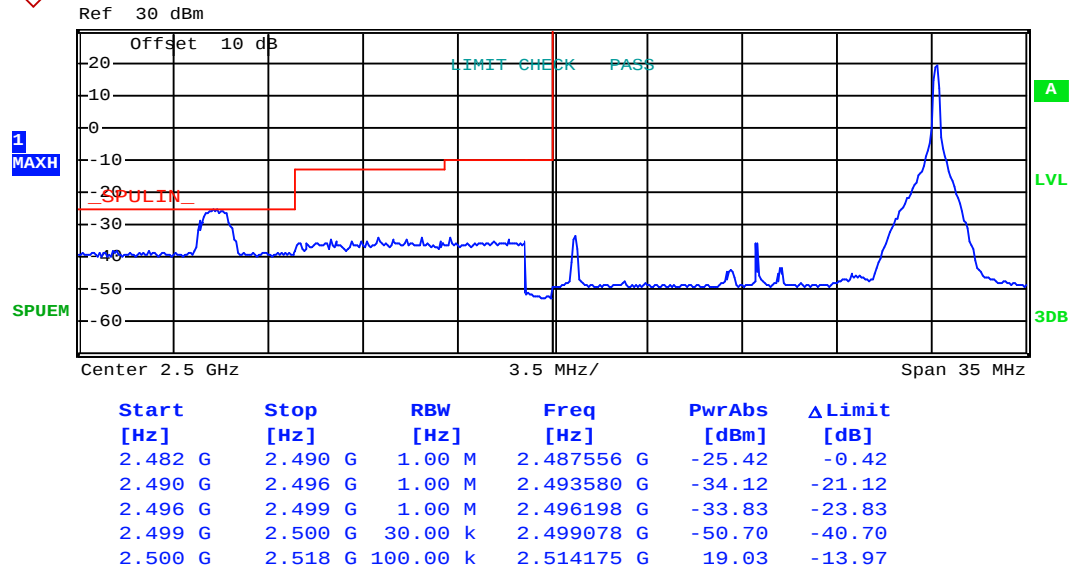
Lowest channel



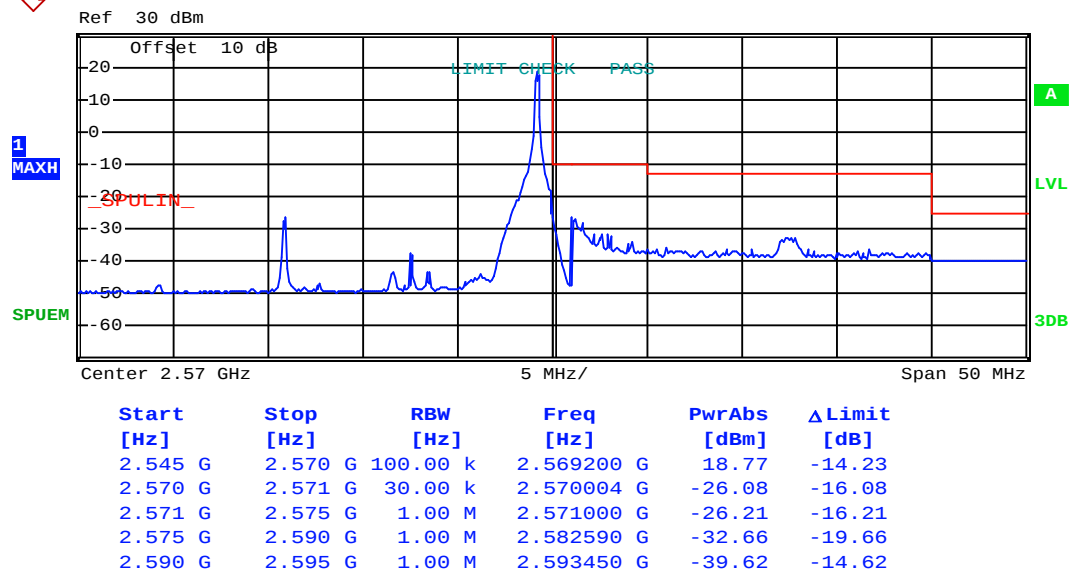
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 74)



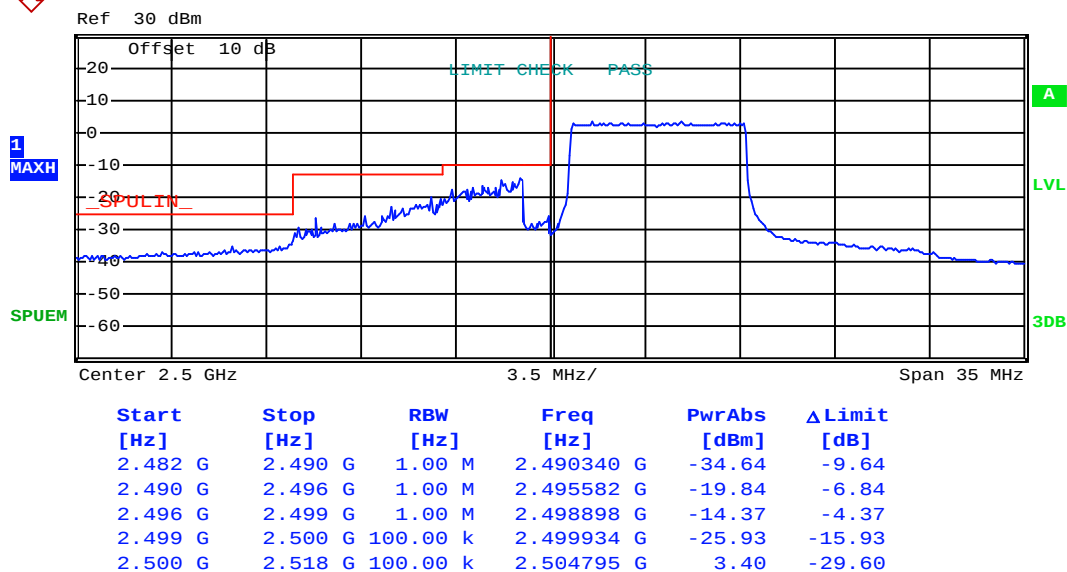
Lowest channel



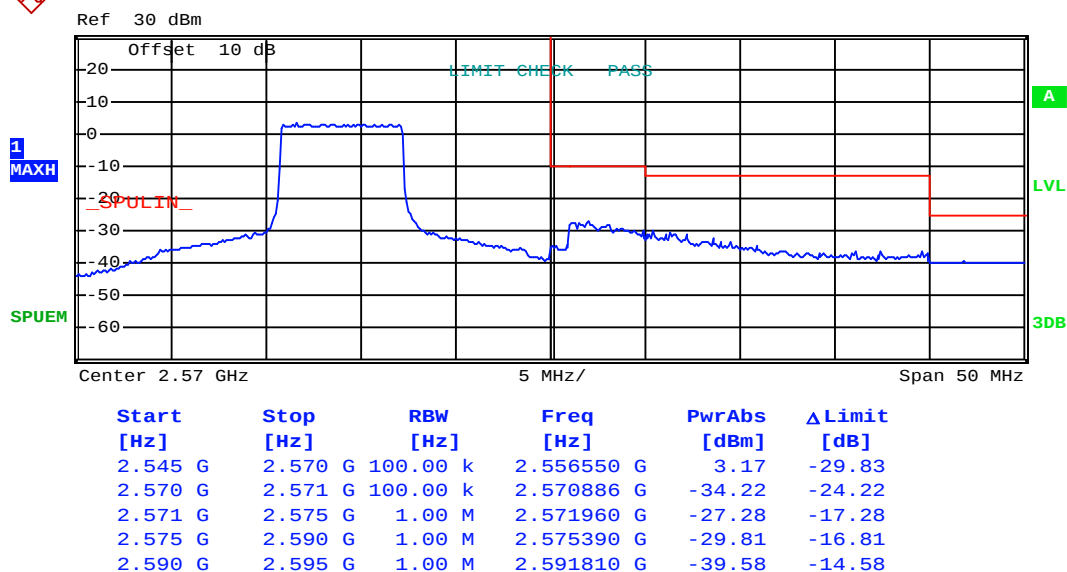
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 36 & RB Offset 0)



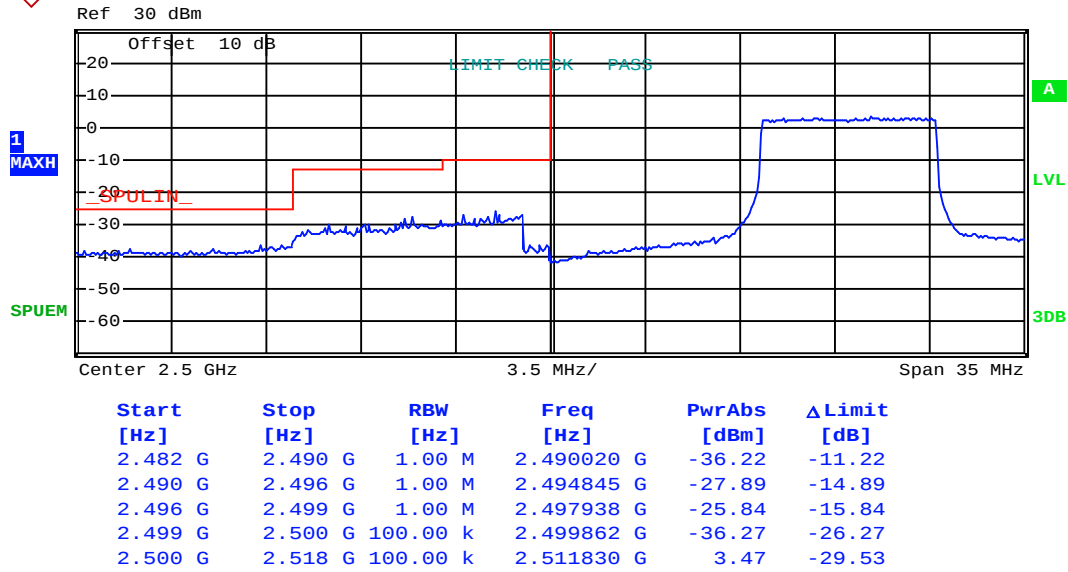
Lowest channel



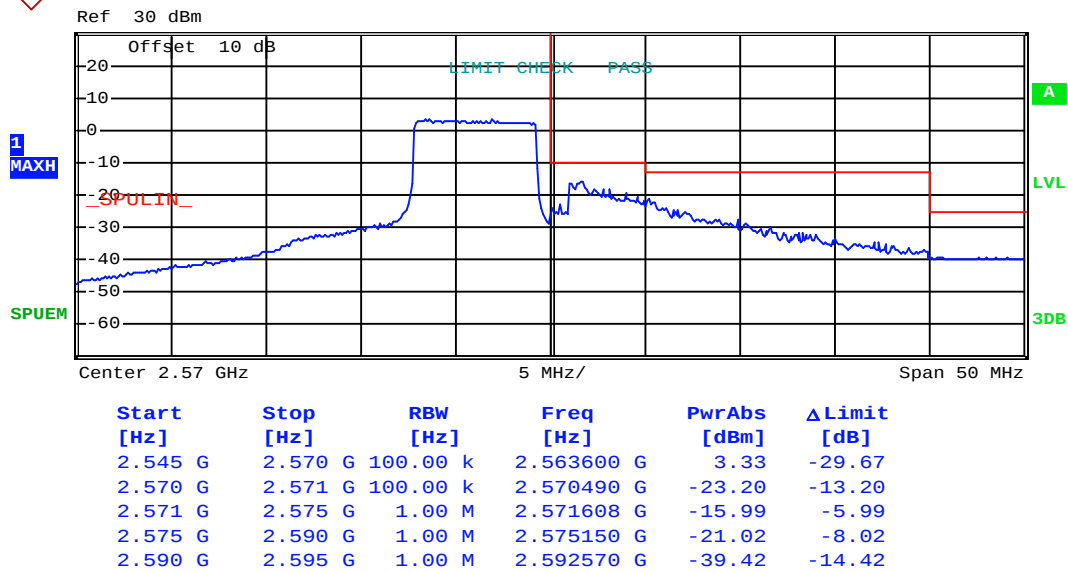
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 36 & RB Offset 37)



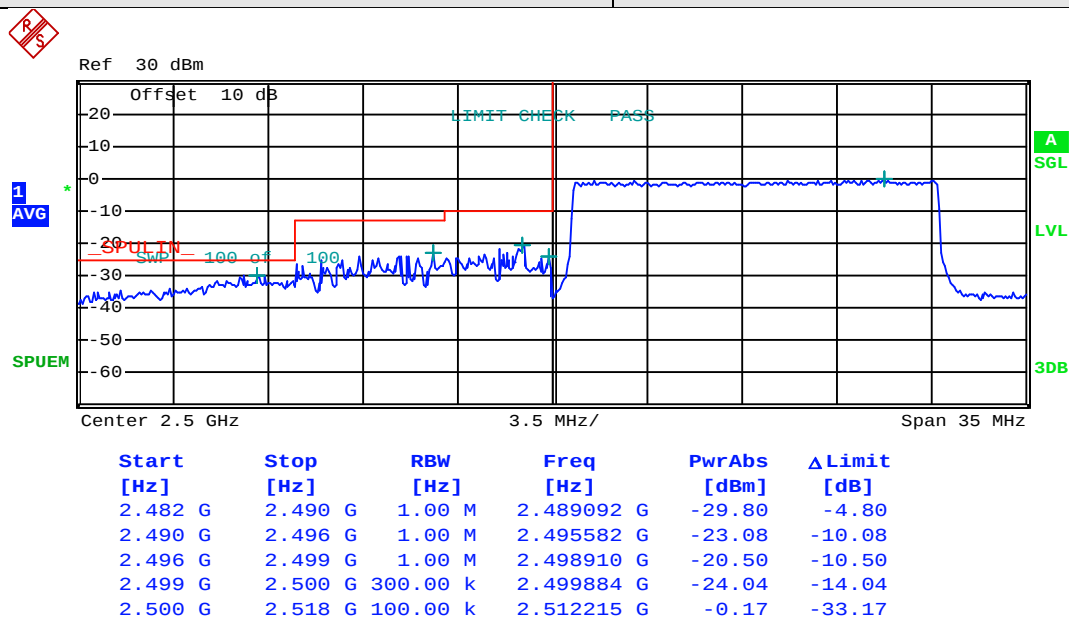
Lowest channel



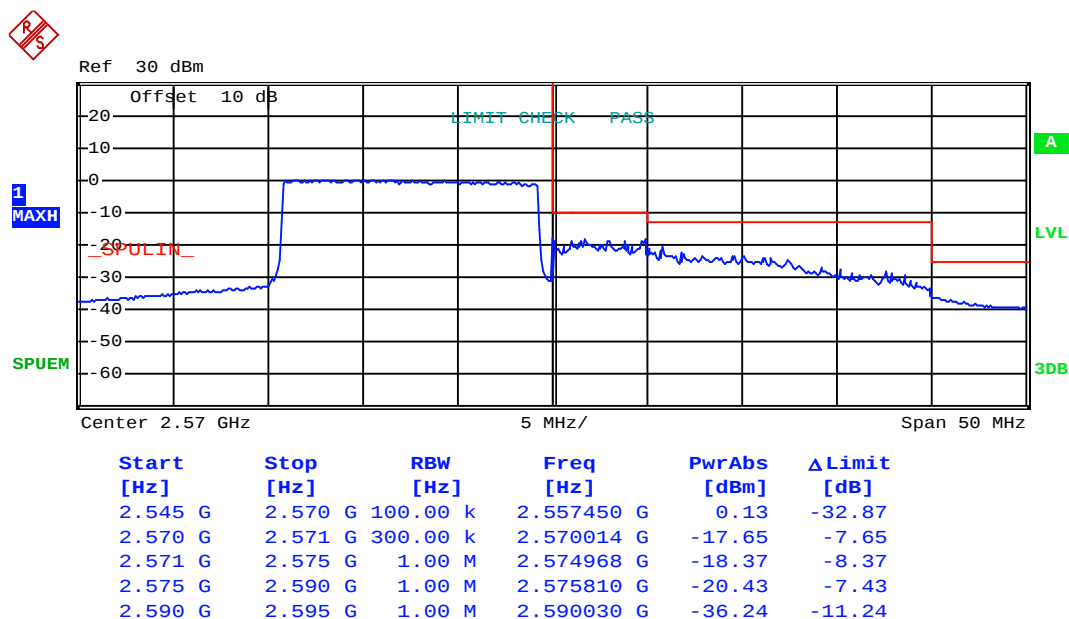
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 75 & RB Offset 0)



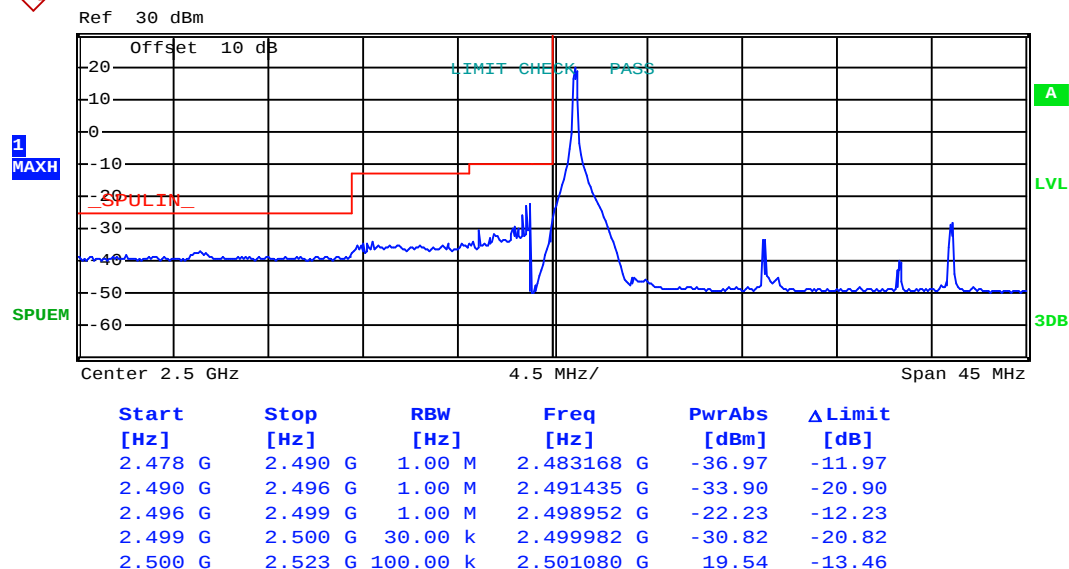
Lowest channel



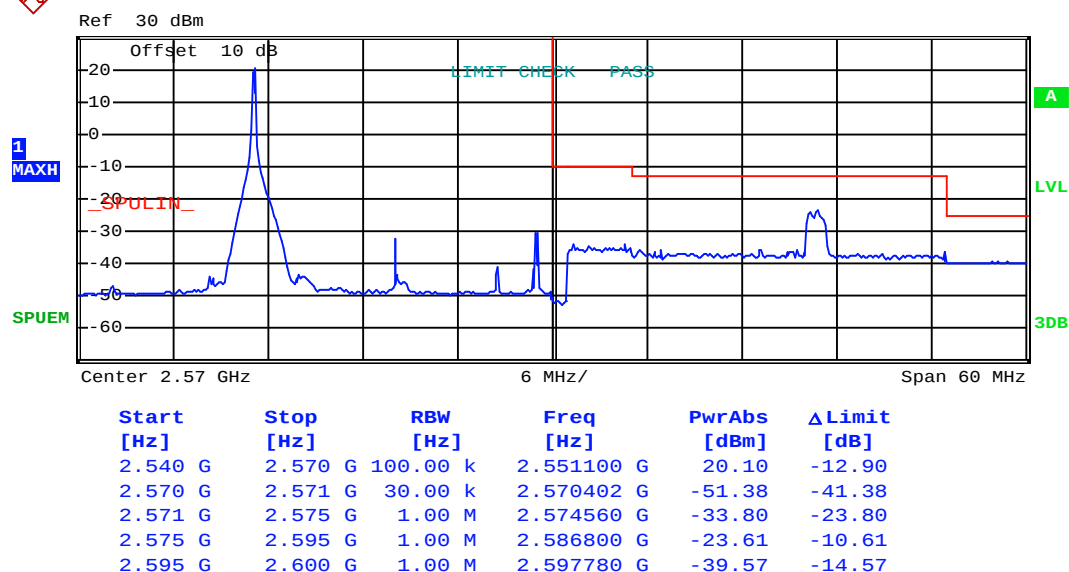
Highest channel

20MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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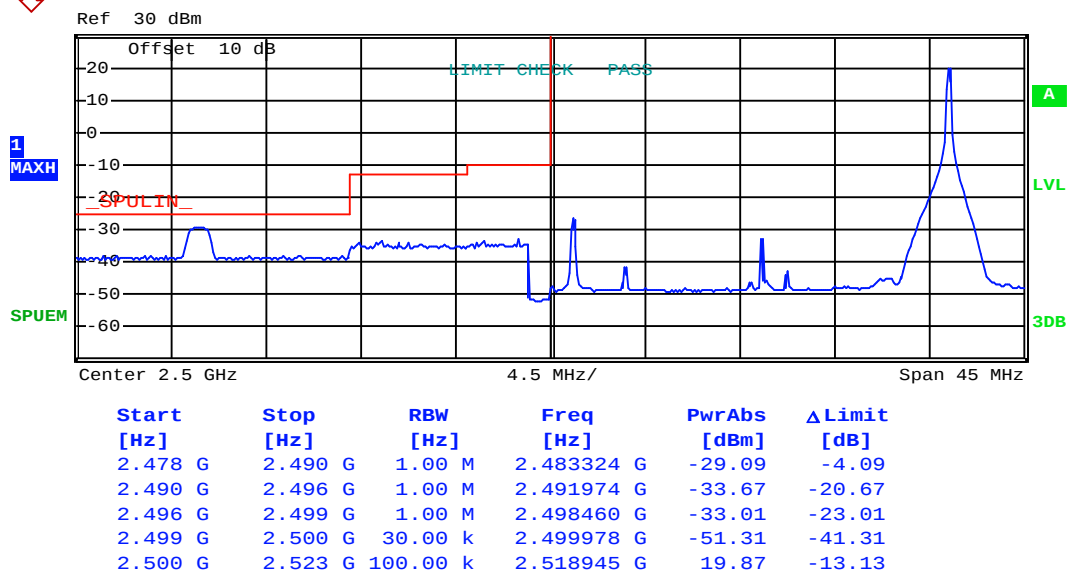
Lowest channel



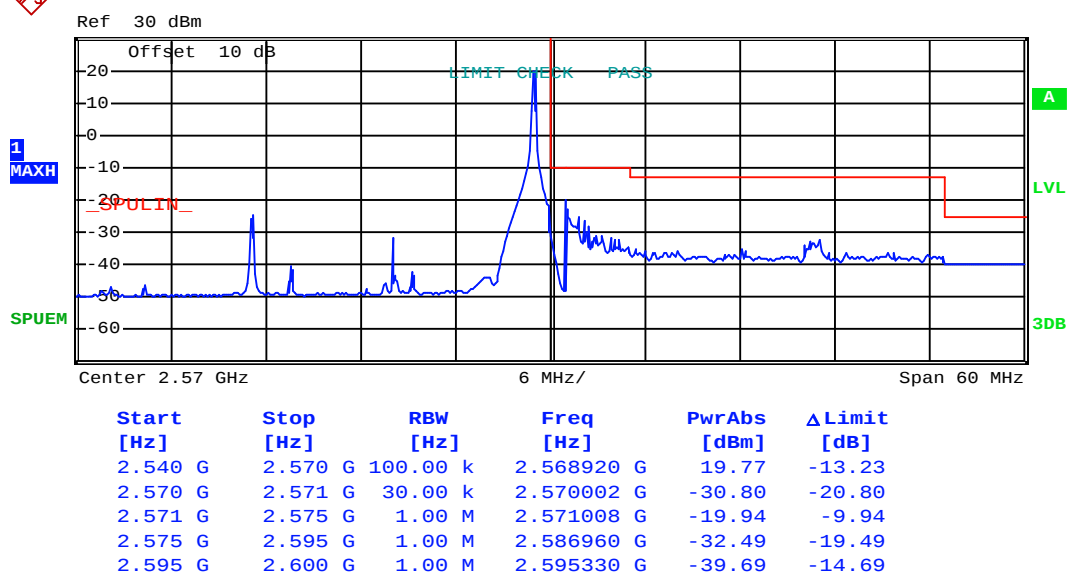
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 1 & RB Offset 99)



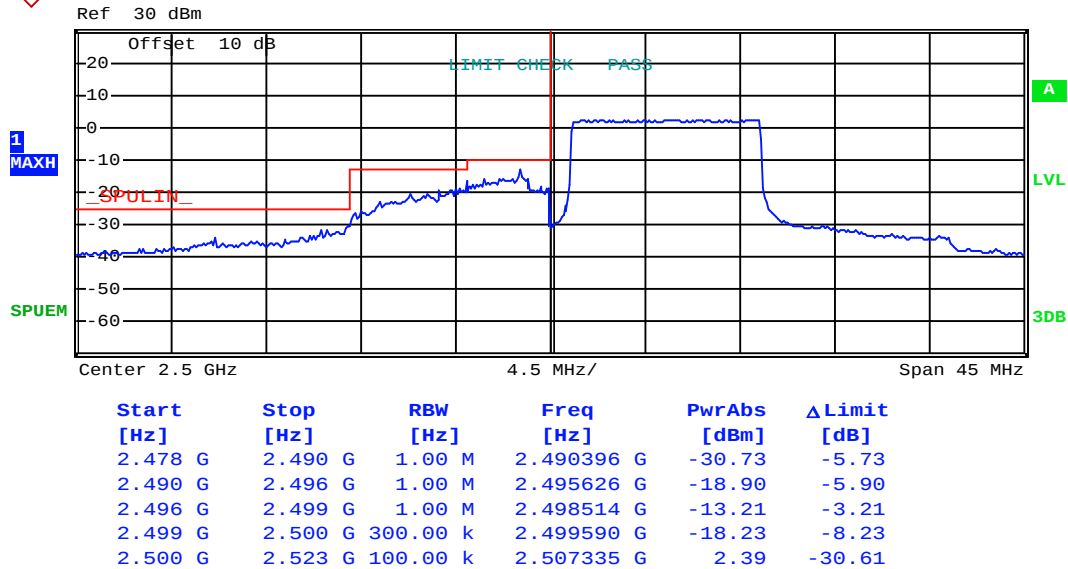
Lowest channel



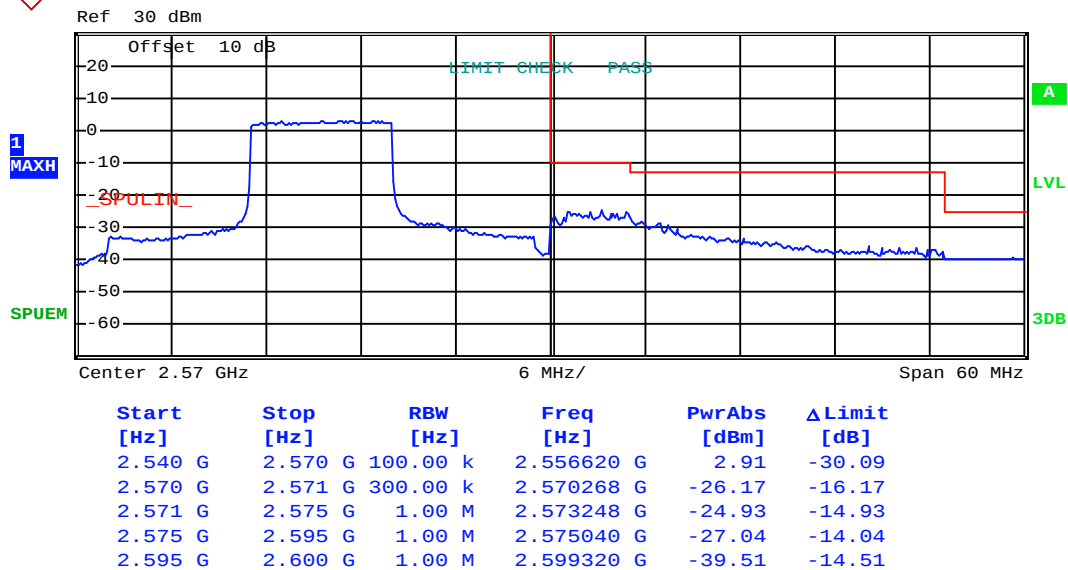
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 50 & RB Offset 0)



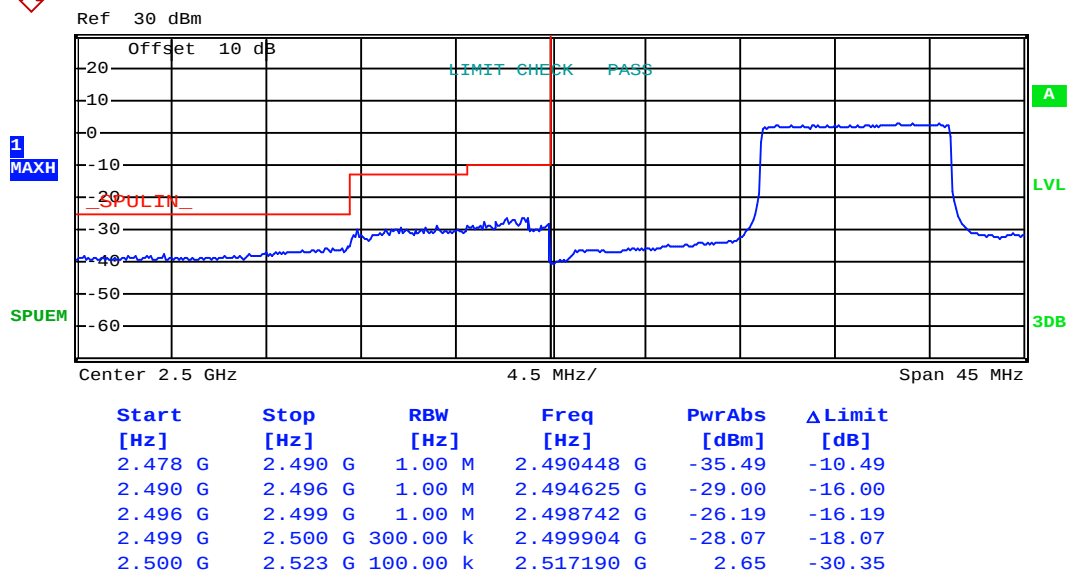
Lowest channel



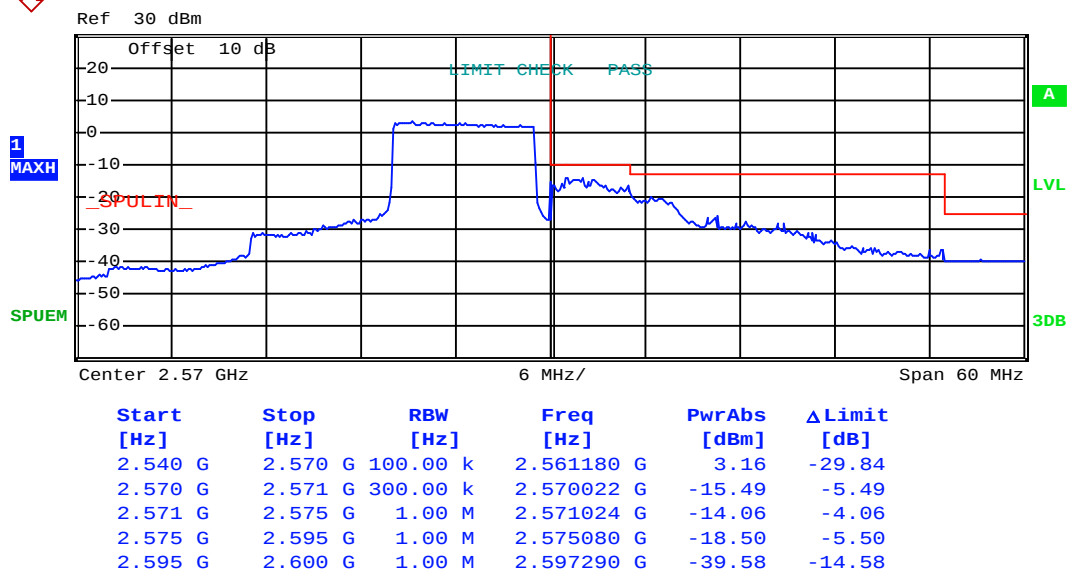
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 50 & RB Offset 49)



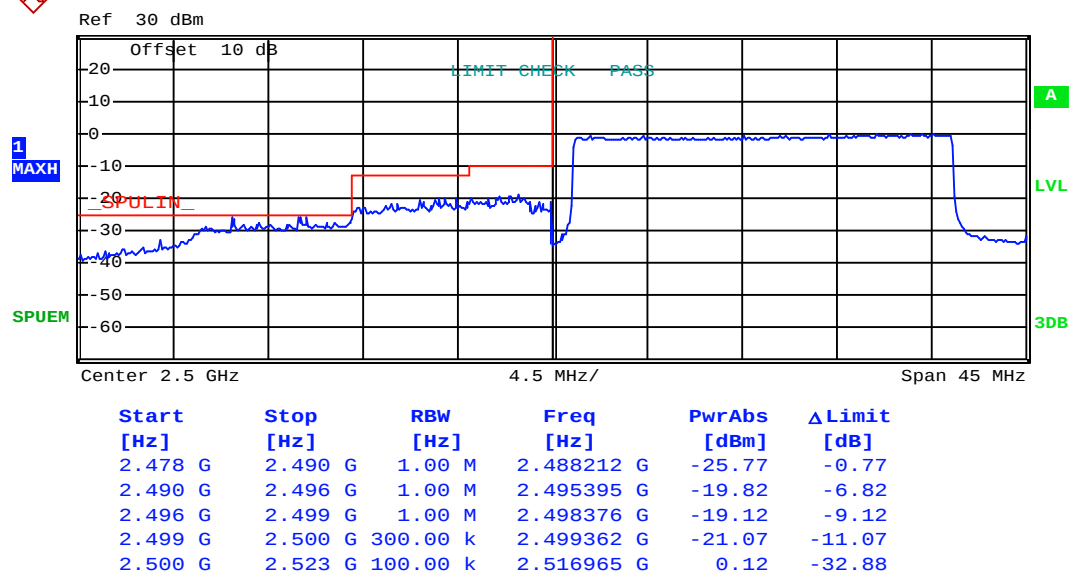
Lowest channel



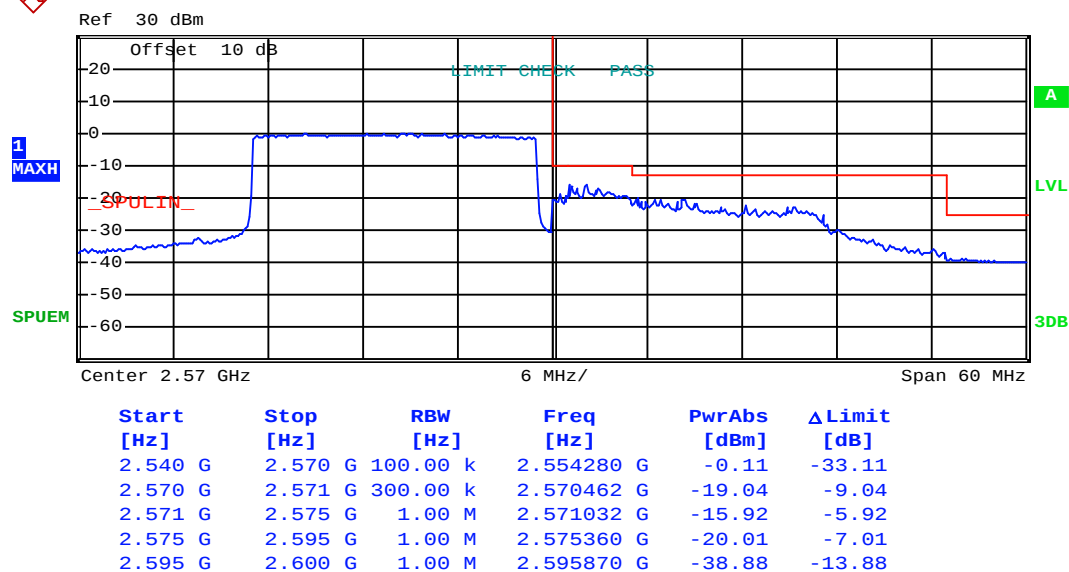
Highest channel

Test Mode:

LTE band 7(QPSK RB Size 100 & RB Offset 0)



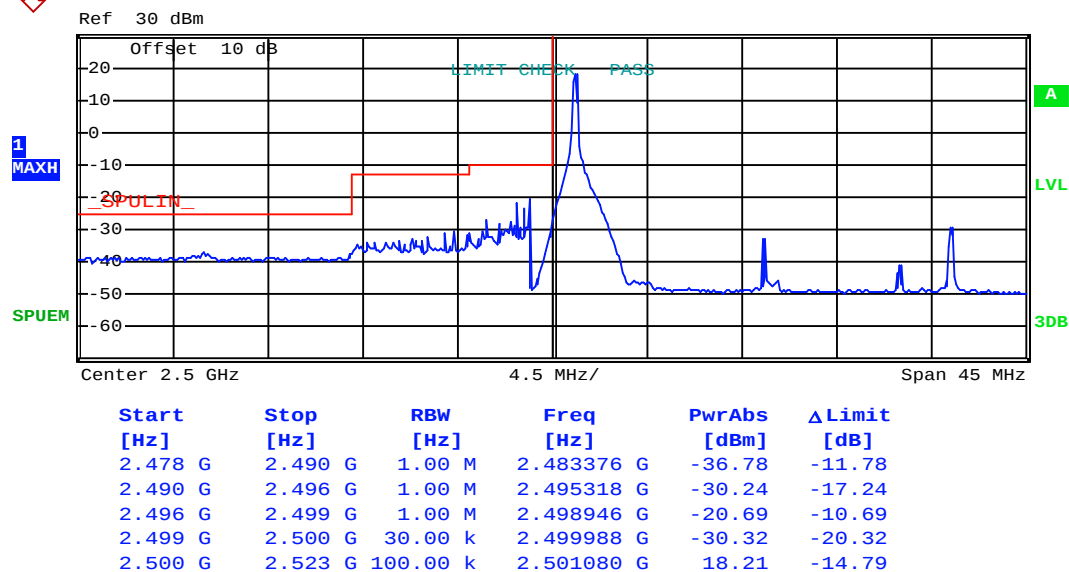
Lowest channel



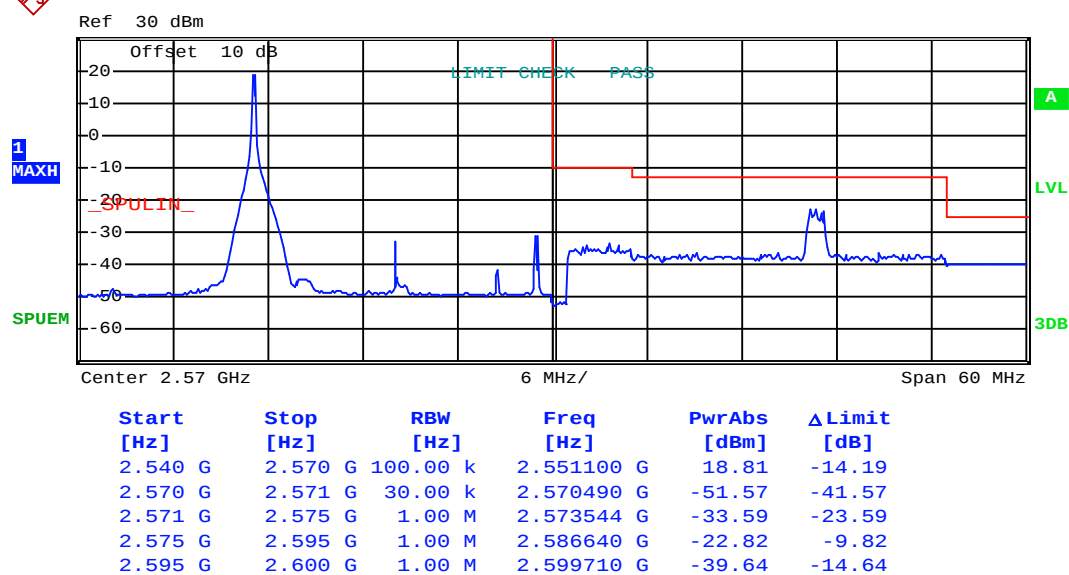
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 0)



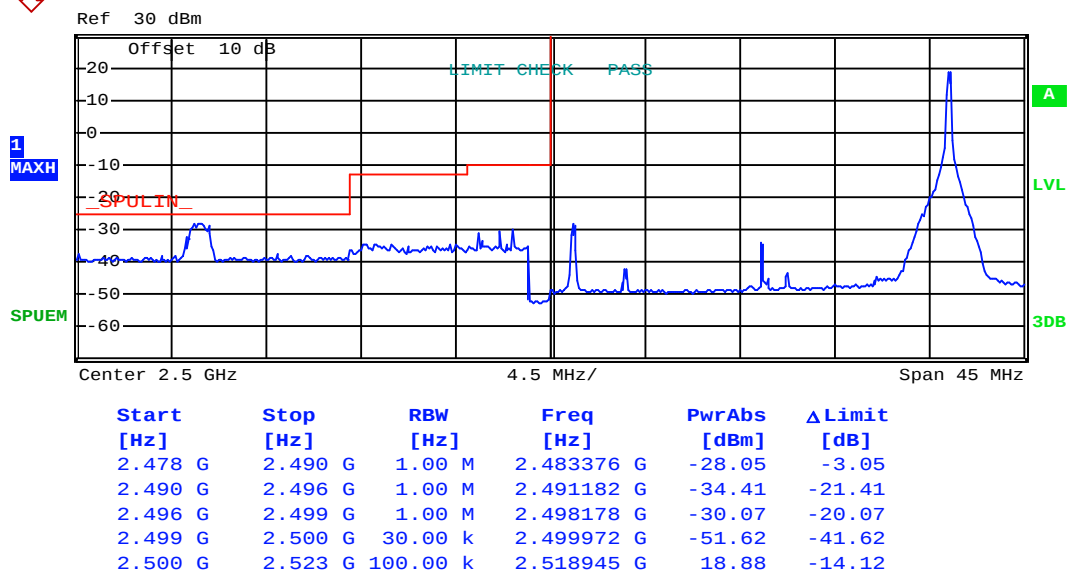
Lowest channel



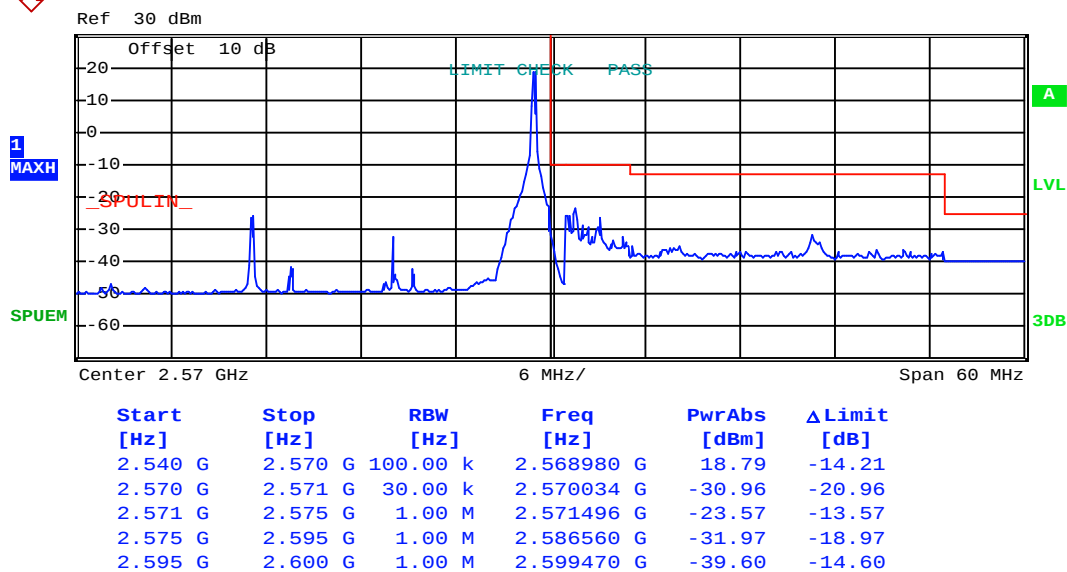
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 1 & RB Offset 99)



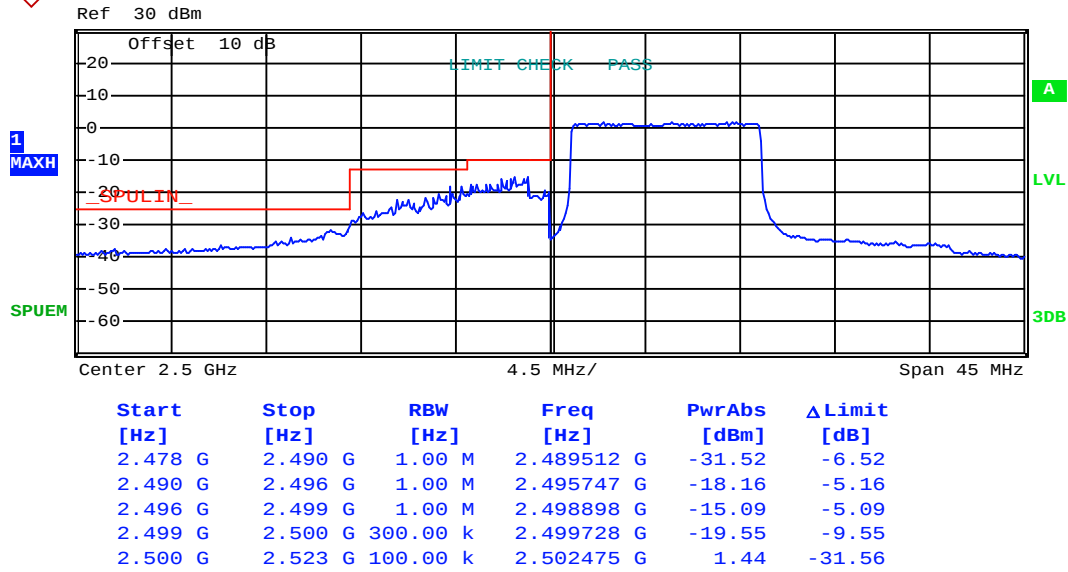
Lowest channel



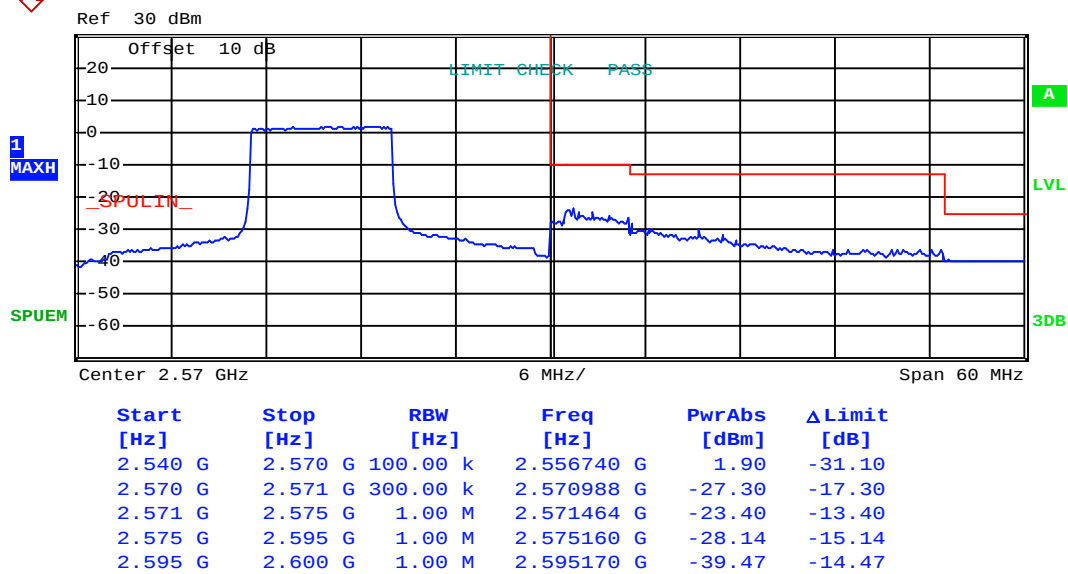
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 50 & RB Offset 0)



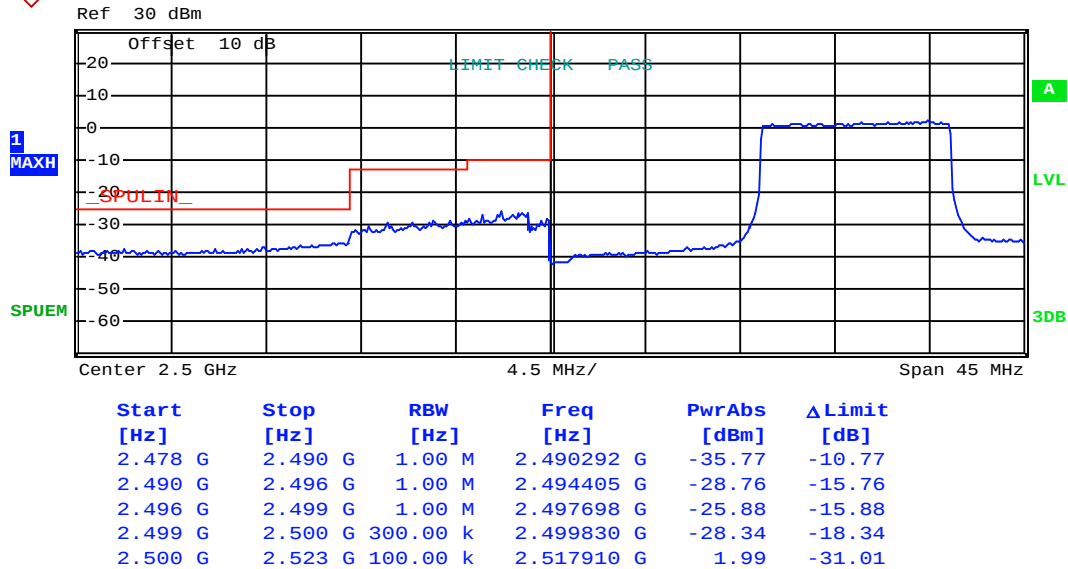
Lowest channel



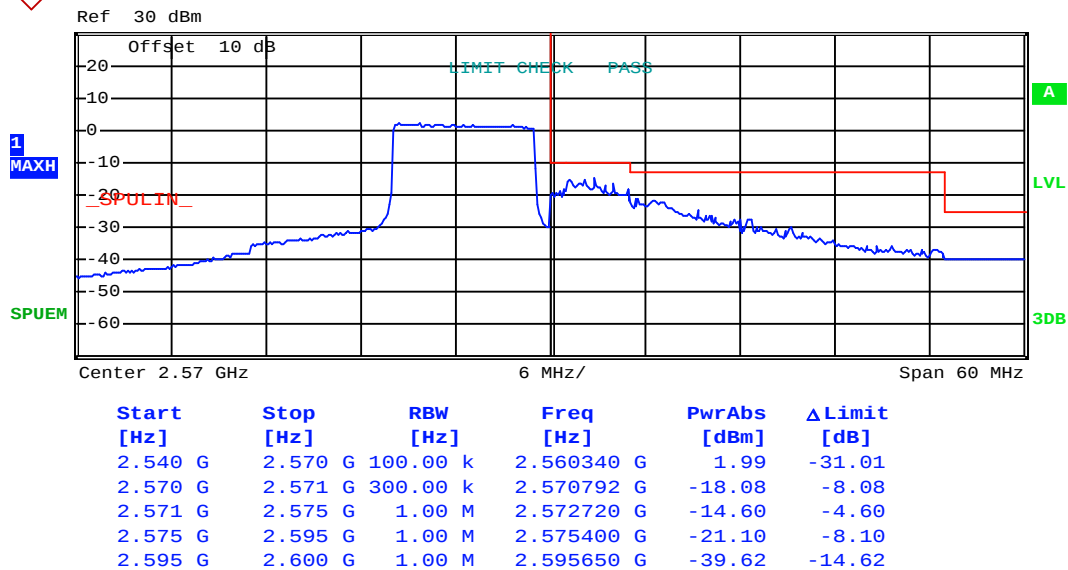
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 50 & RB Offset 49)



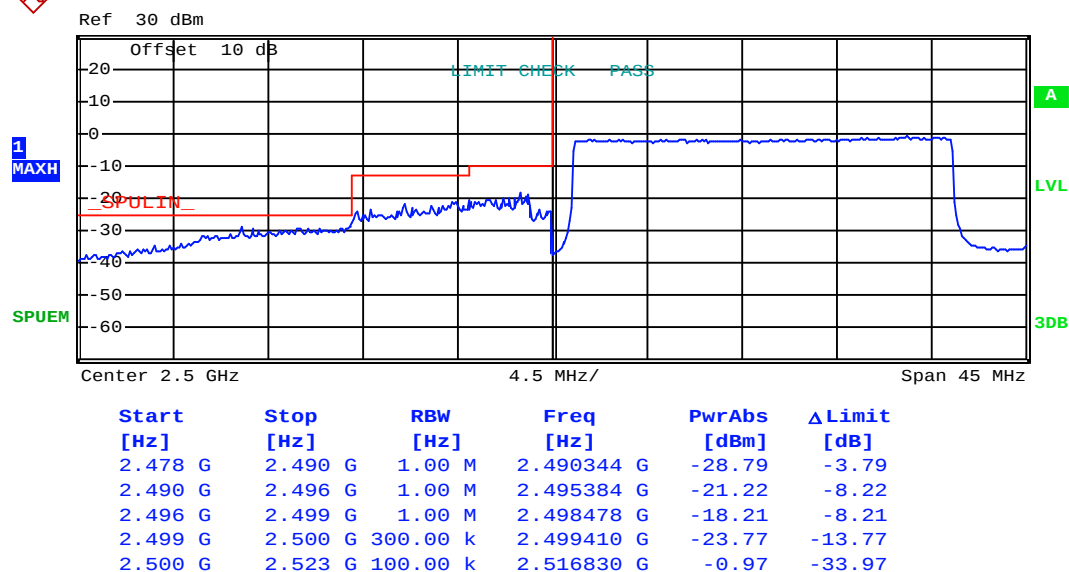
Lowest channel



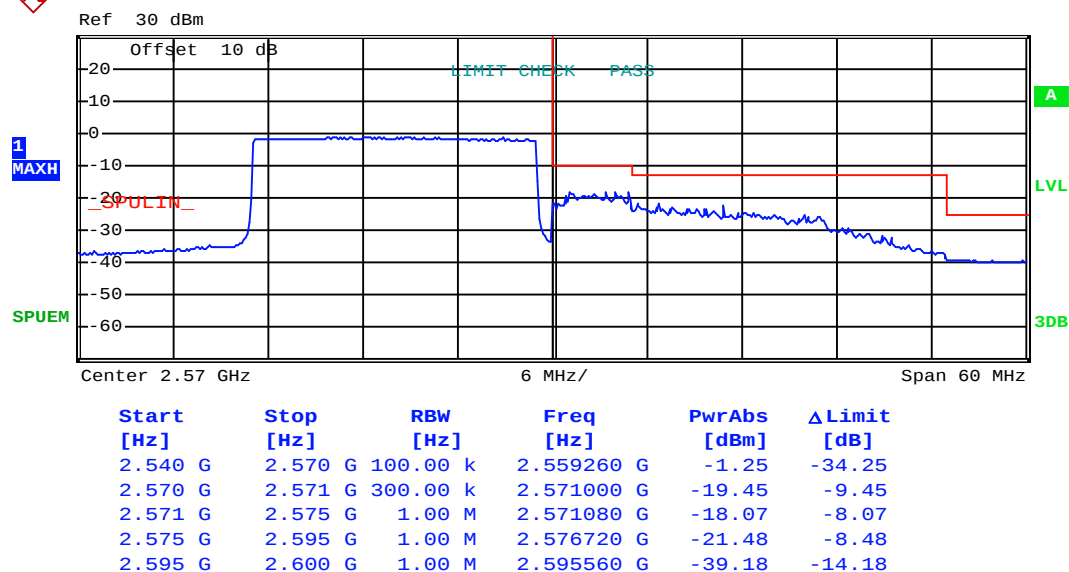
Highest channel

Test Mode:

LTE band 7(16QAM RB Size 100 & RB Offset 0)



Lowest channel

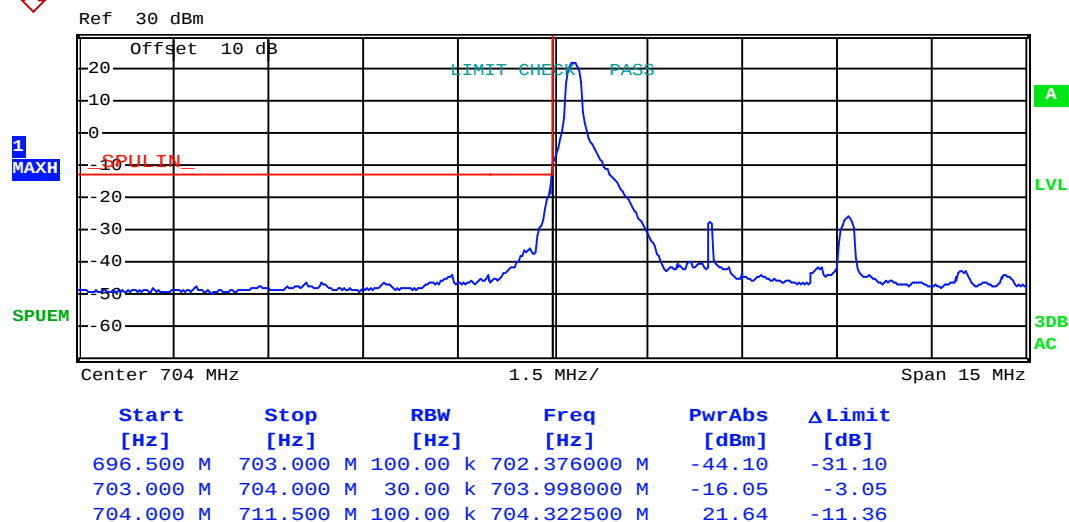


Highest channel

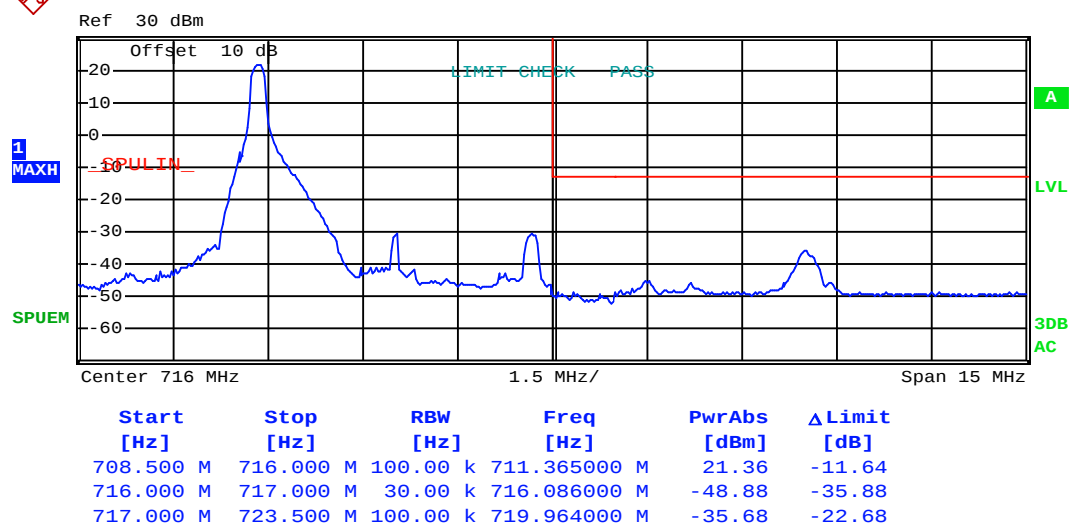
LTE band 17 part:

5MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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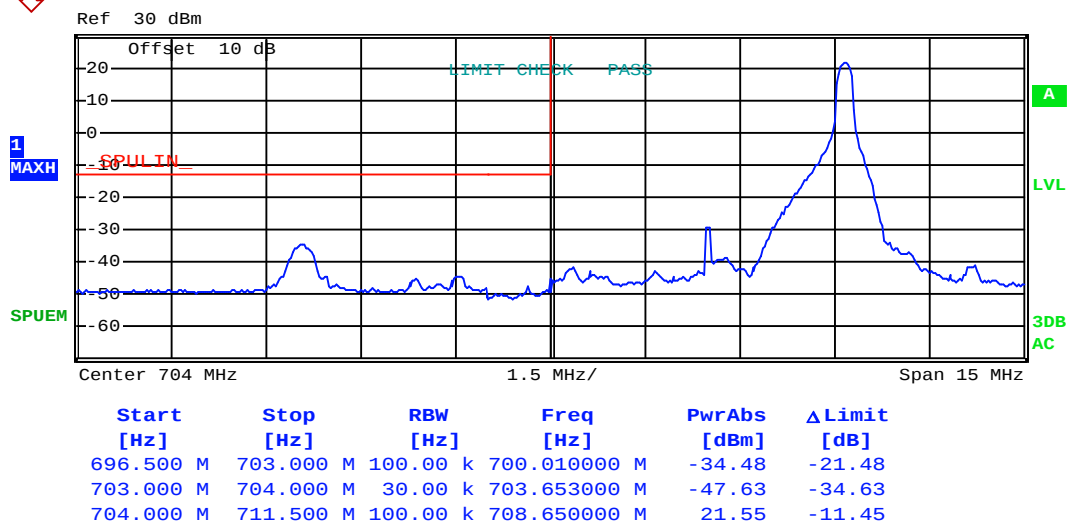
Lowest channel



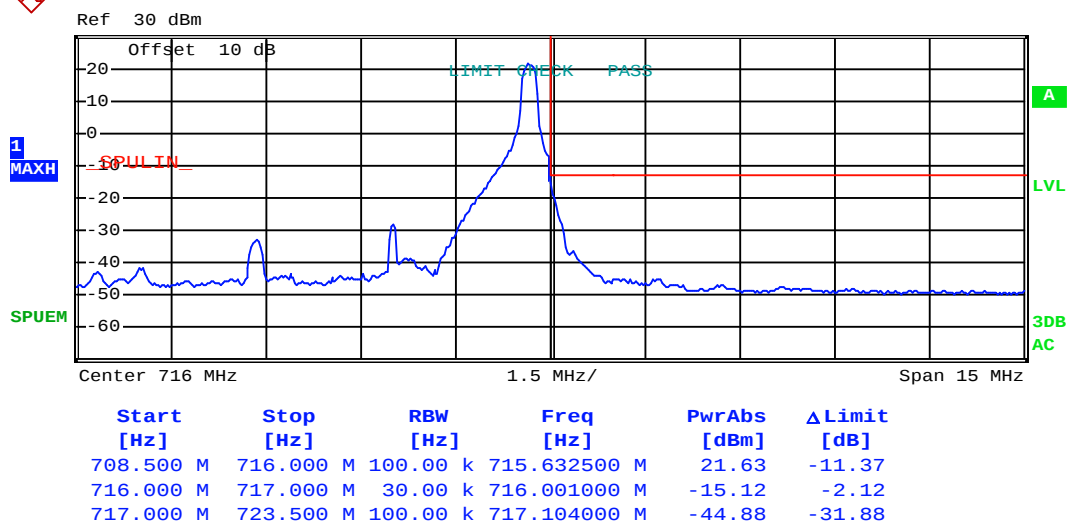
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 1 & RB Offset 24)



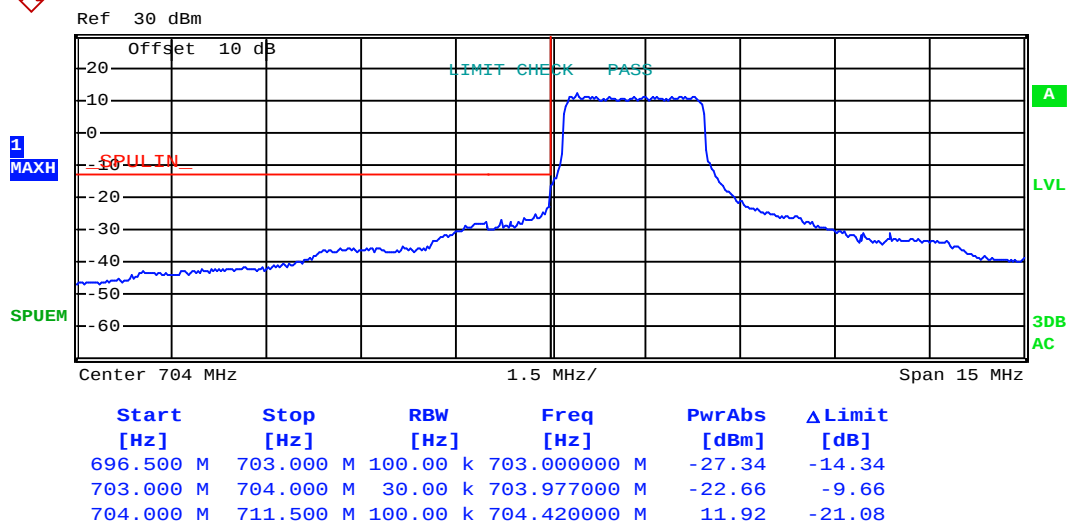
Lowest channel



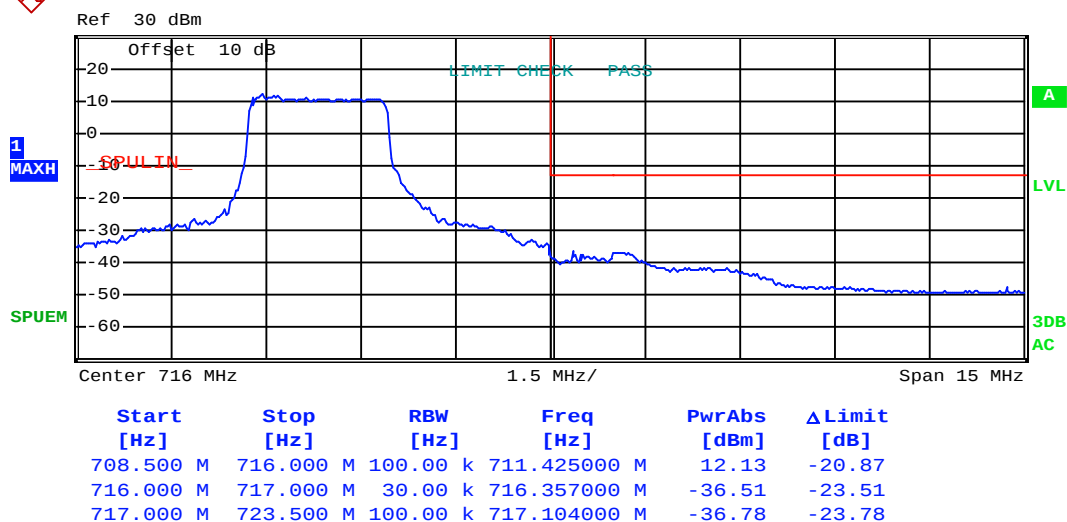
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 12 & RB Offset 0)

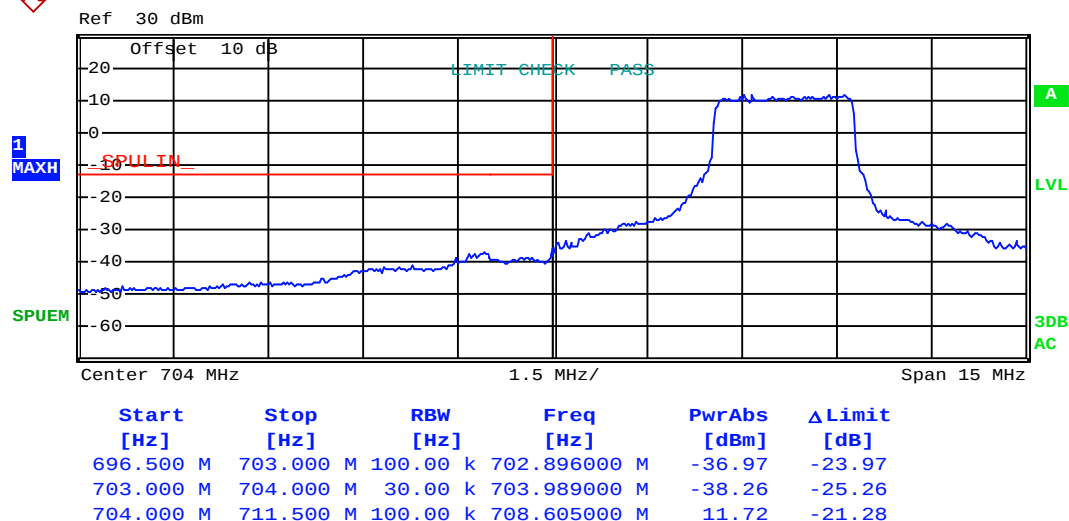


Lowest channel

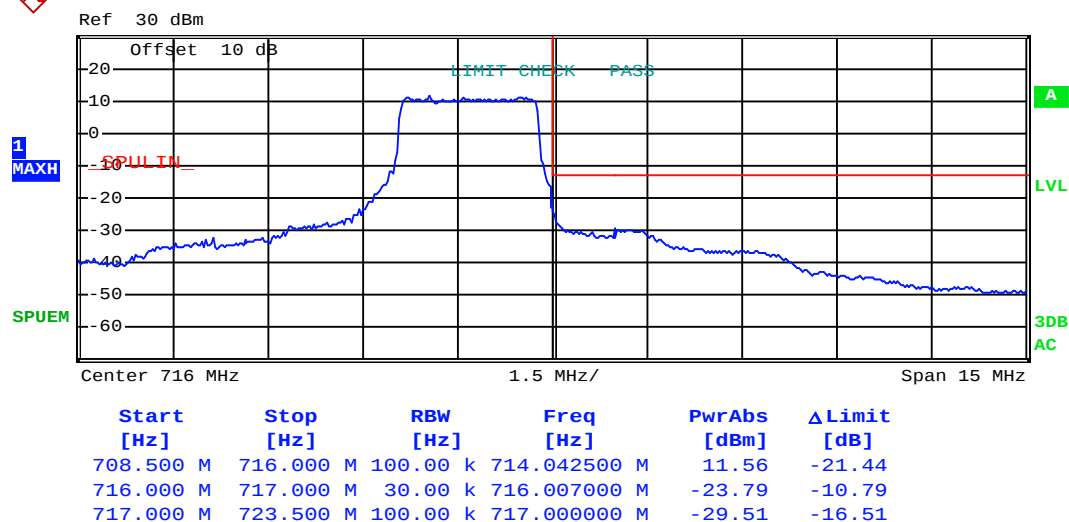


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 12 & RB Offset 11)
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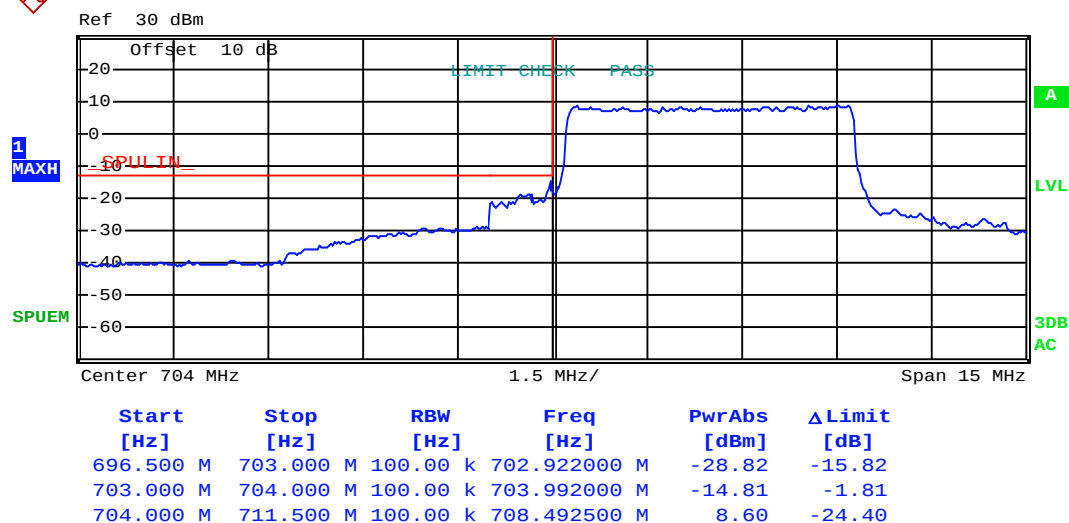
Lowest channel



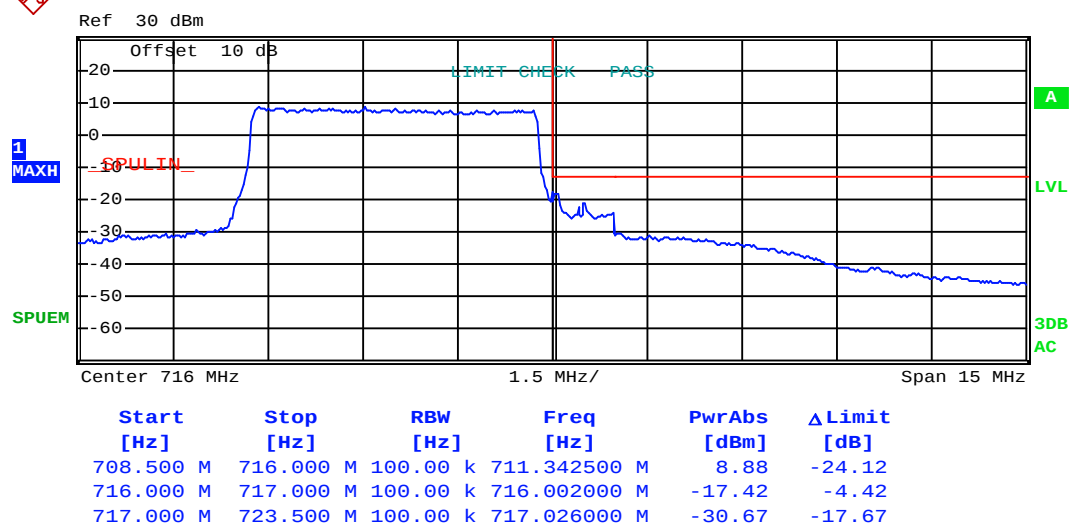
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 25 & RB Offset 0)

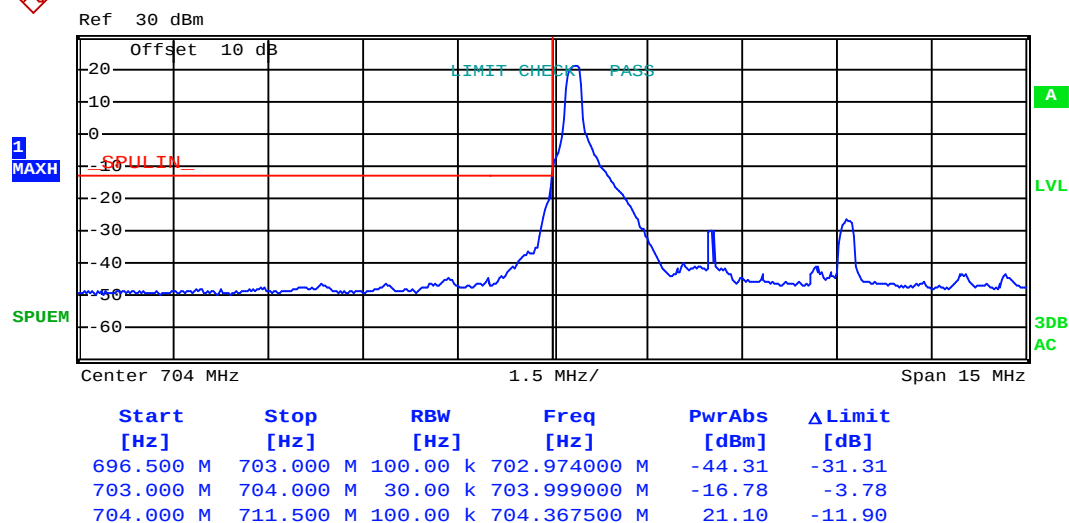


Lowest channel

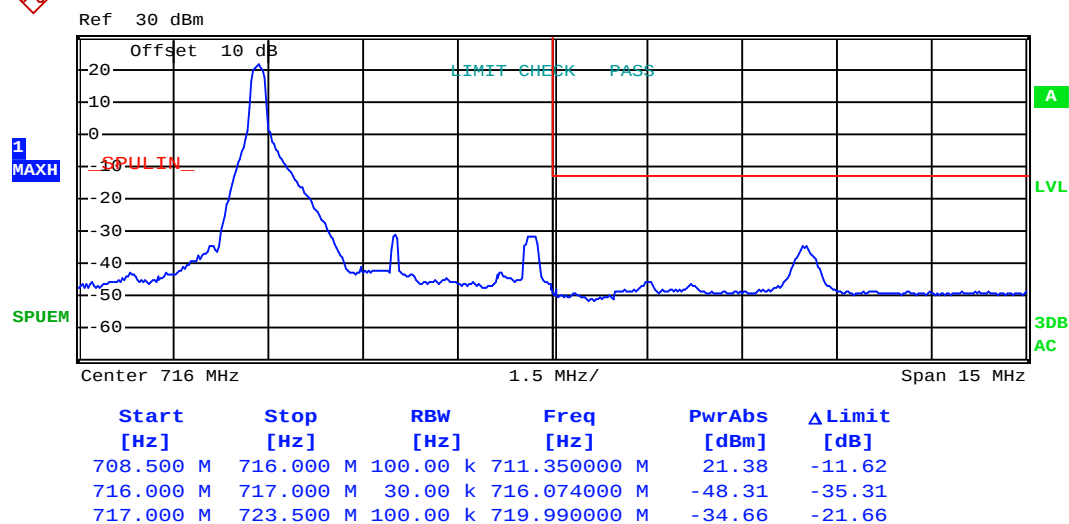


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 0)
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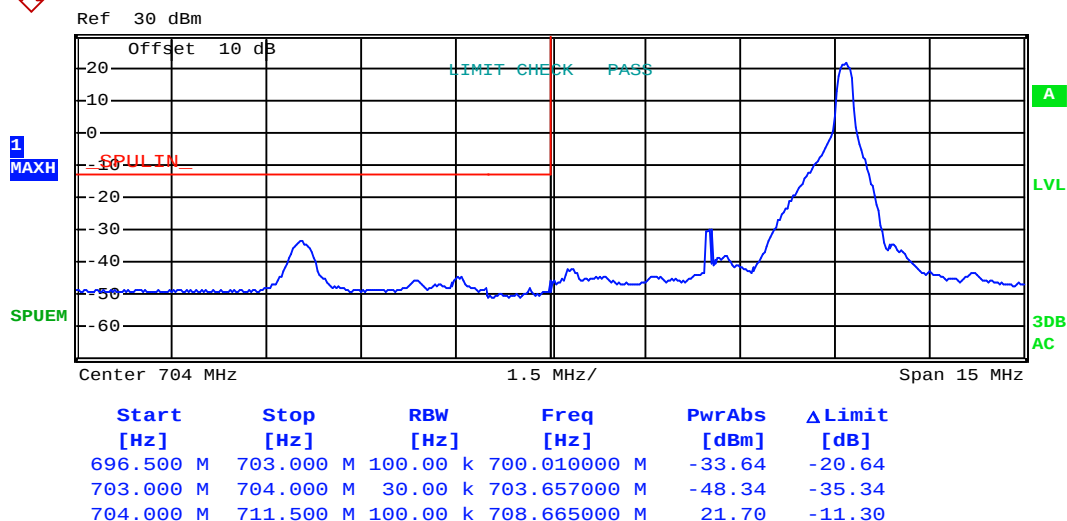
Lowest channel



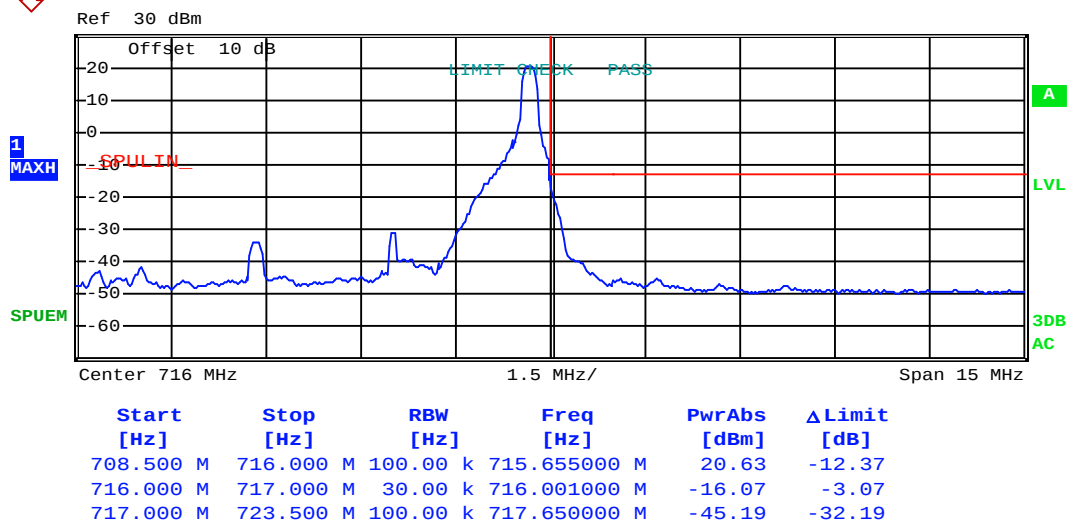
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 1 & RB Offset 24)



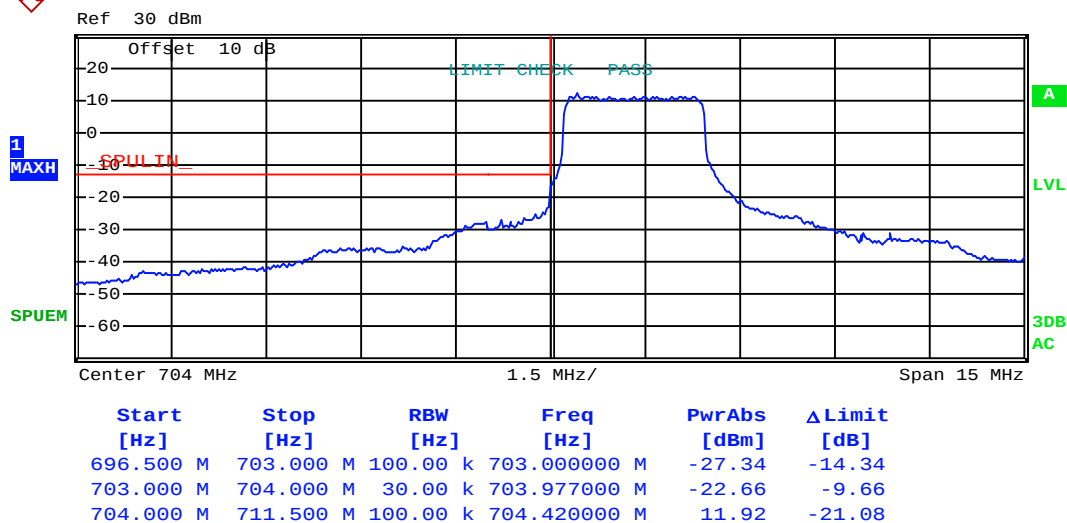
Lowest channel



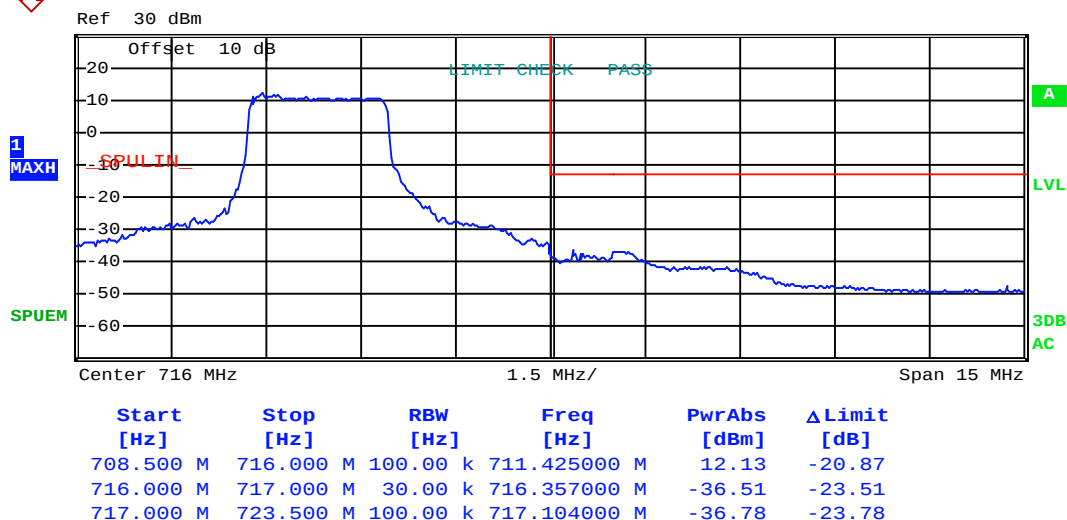
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 12 & RB Offset 0)

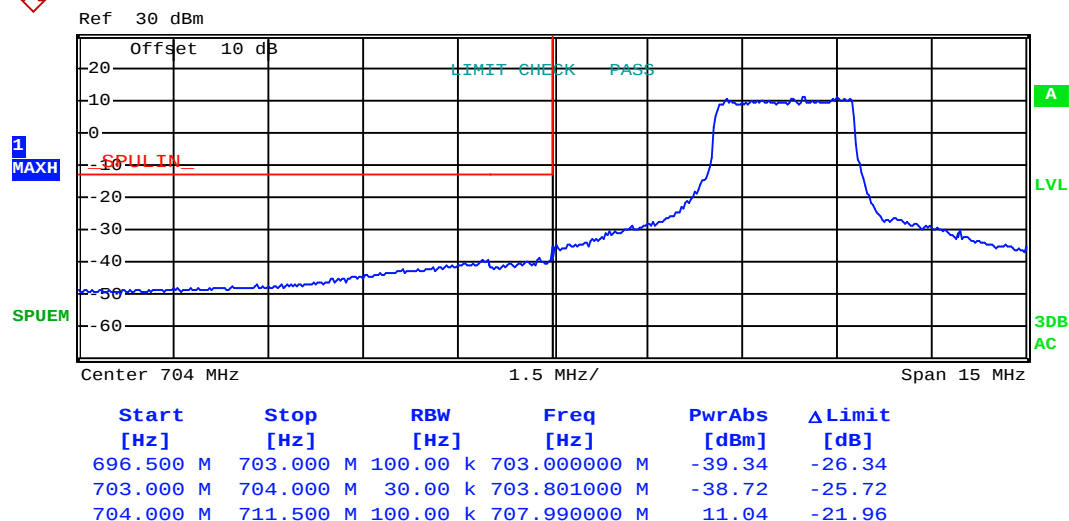


Lowest channel

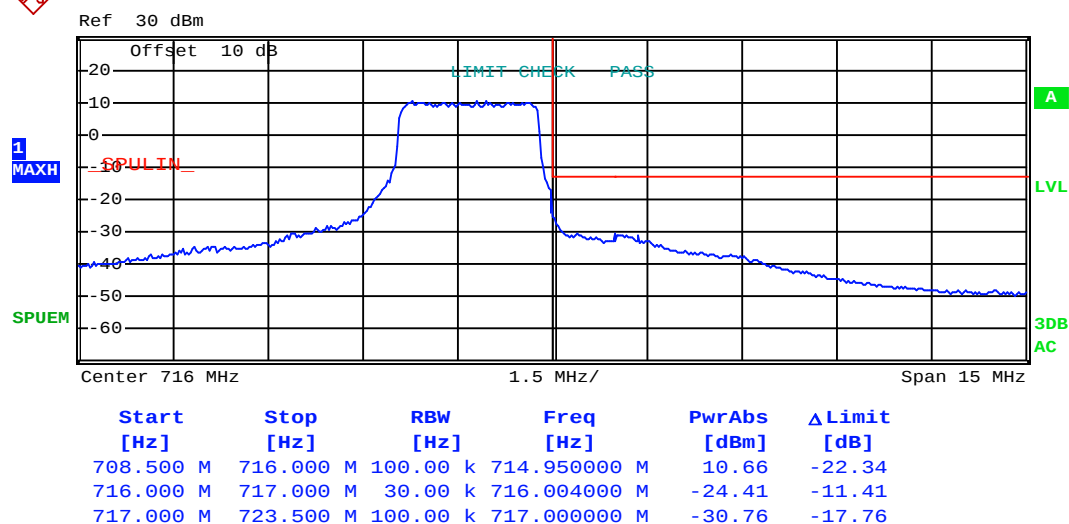


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 12 & RB Offset 11)
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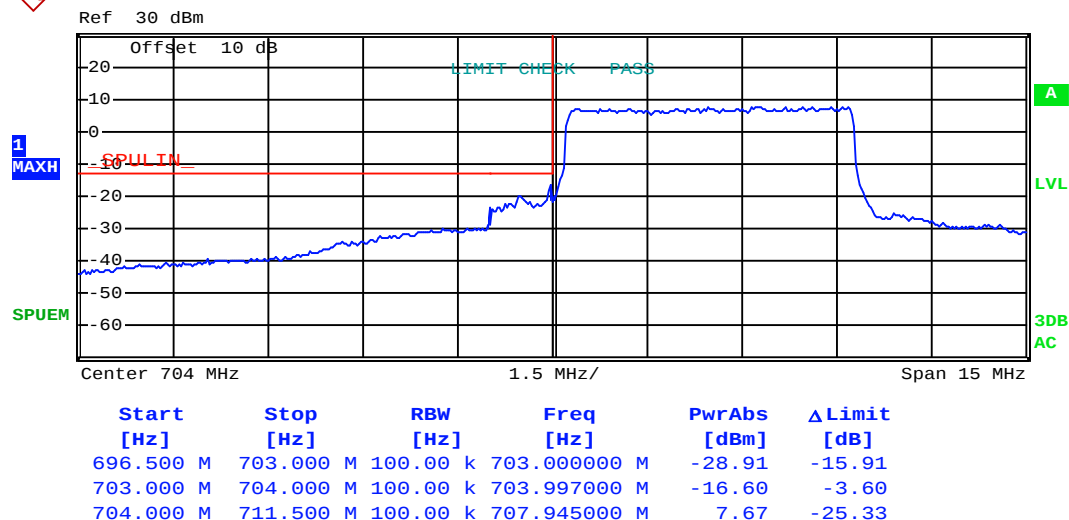


Lowest channel

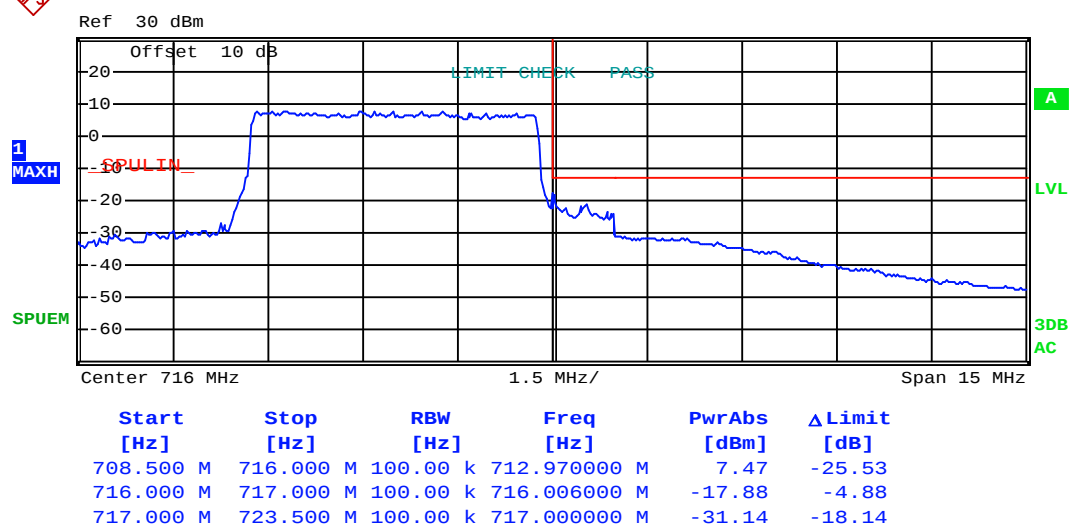


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 0)
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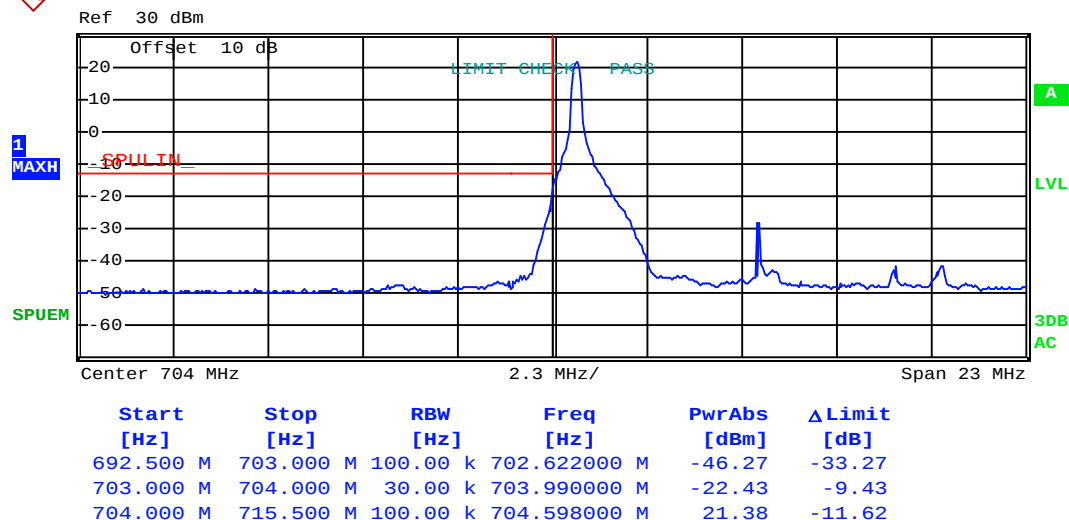
Lowest channel



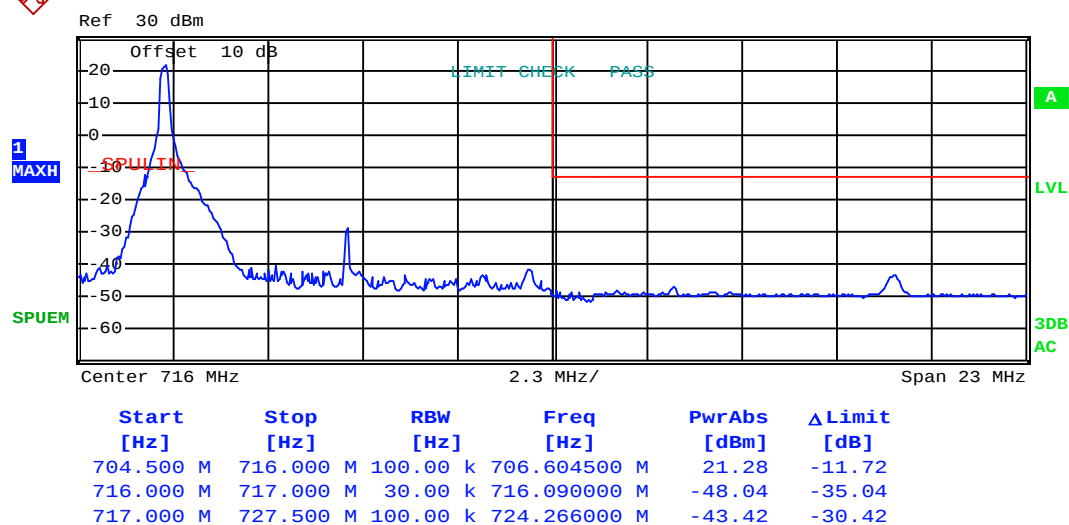
Highest channel

10MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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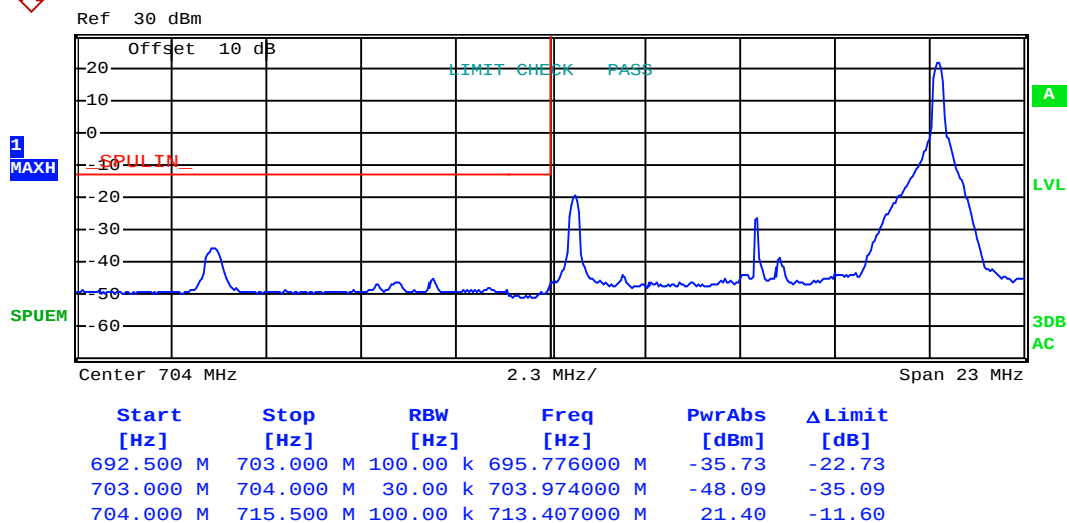
Lowest channel



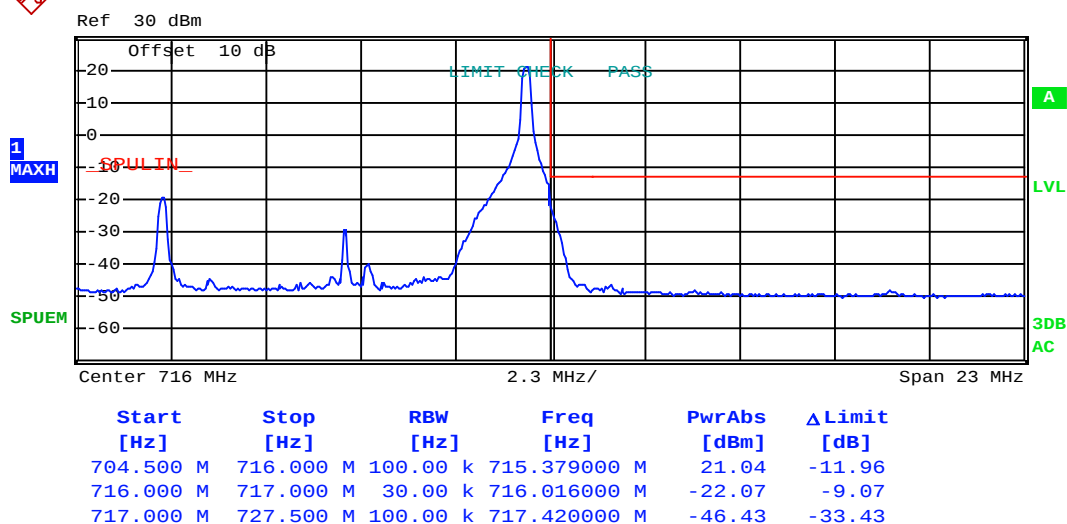
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 1 & RB Offset 49)

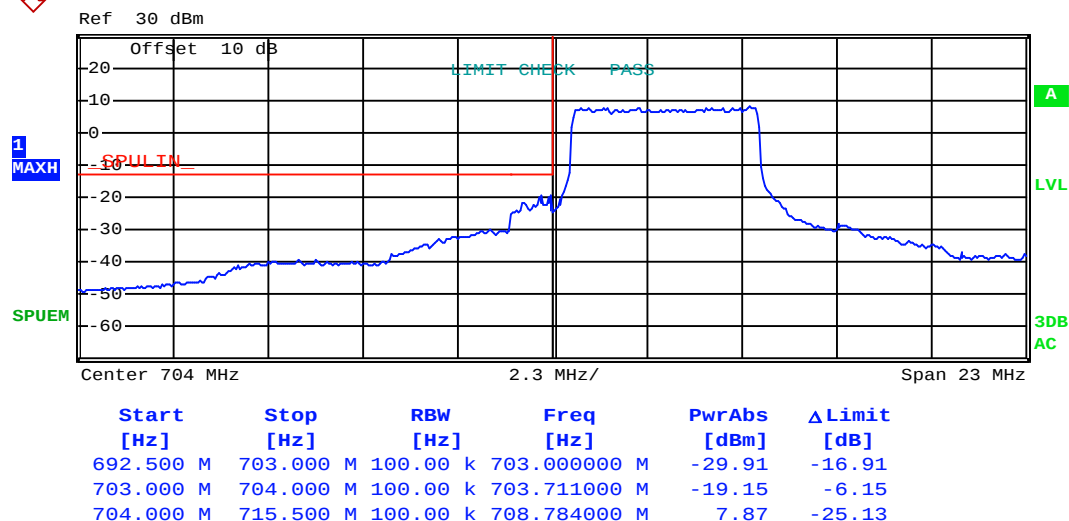


Lowest channel

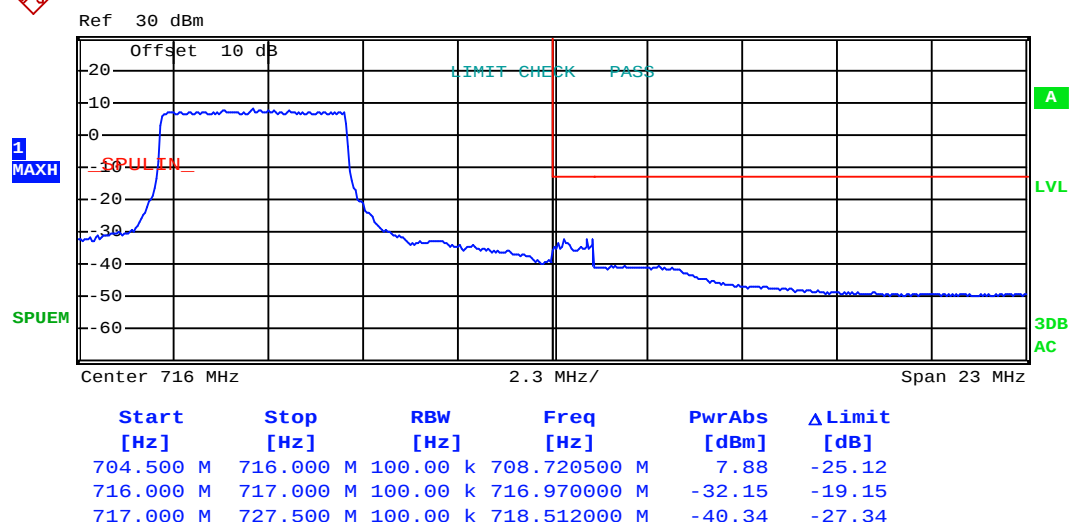


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 25 & RB Offset 0)
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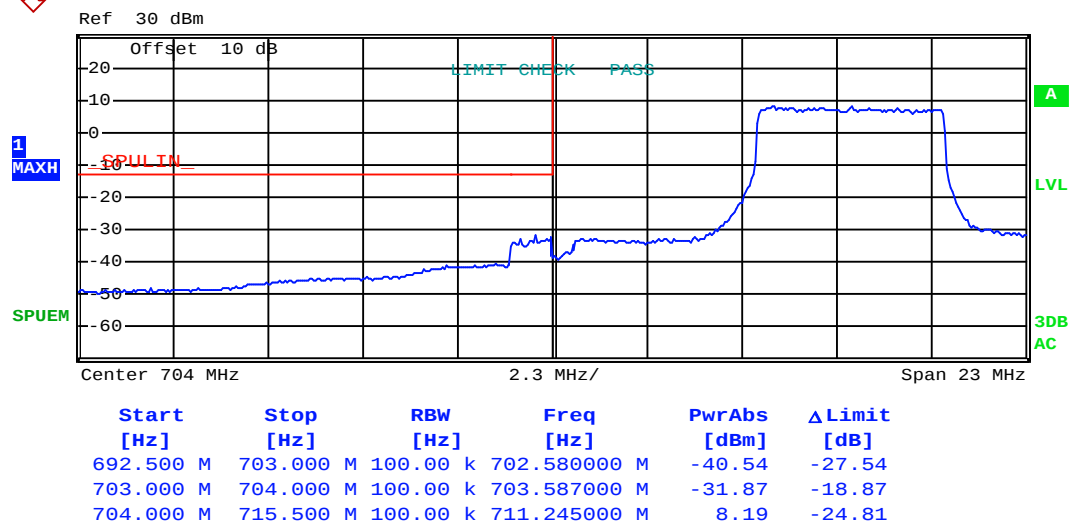


Lowest channel

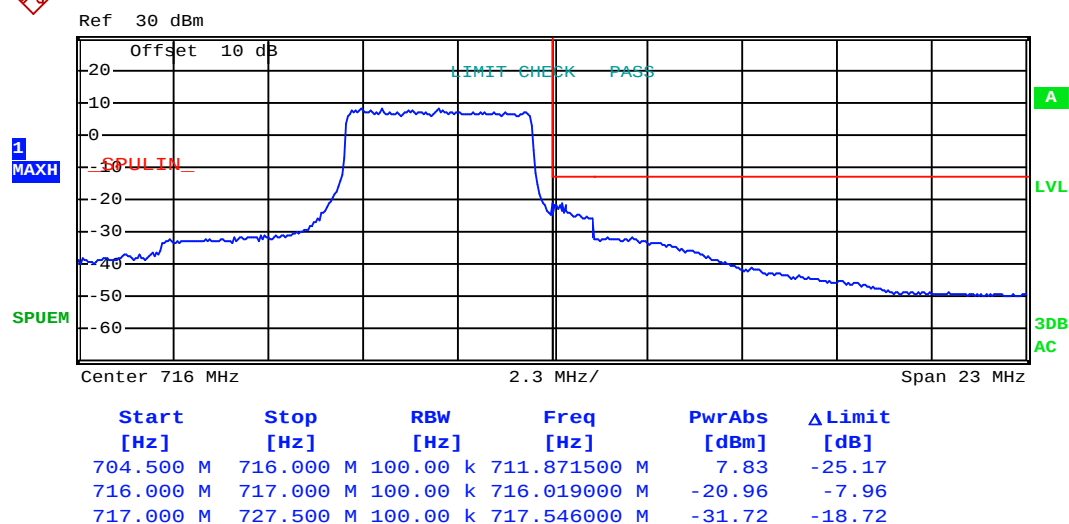


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 25 & RB Offset 24)
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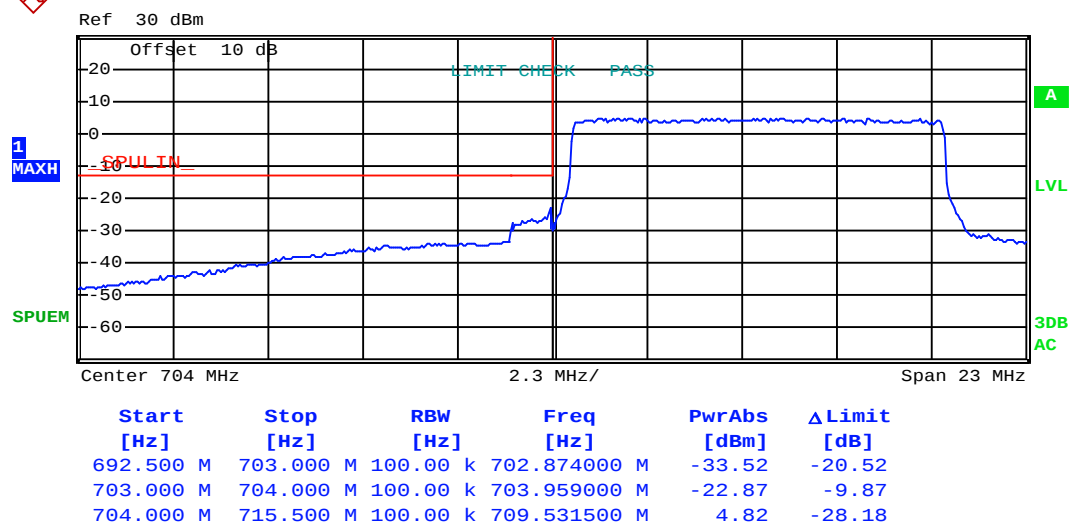
Lowest channel



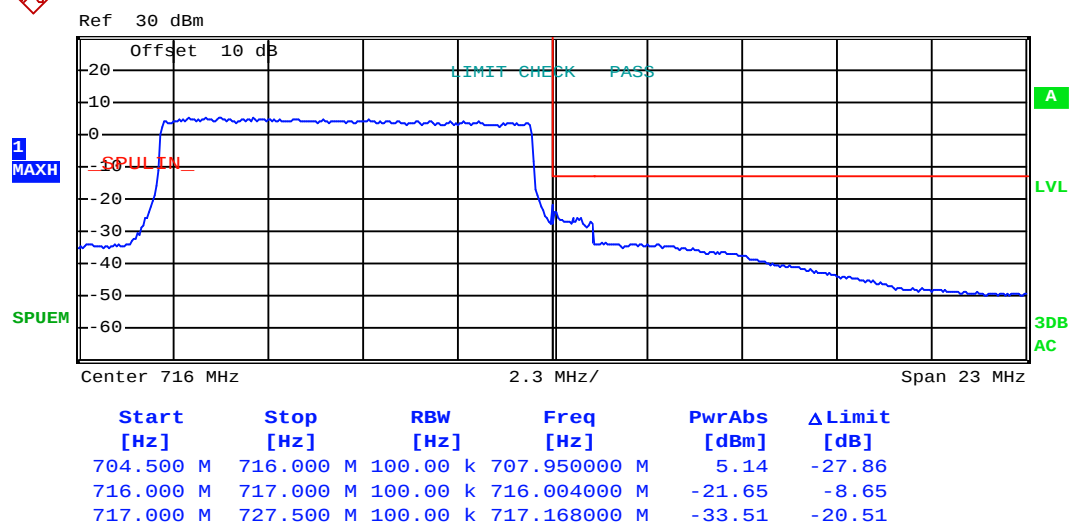
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 50 & RB Offset 0)

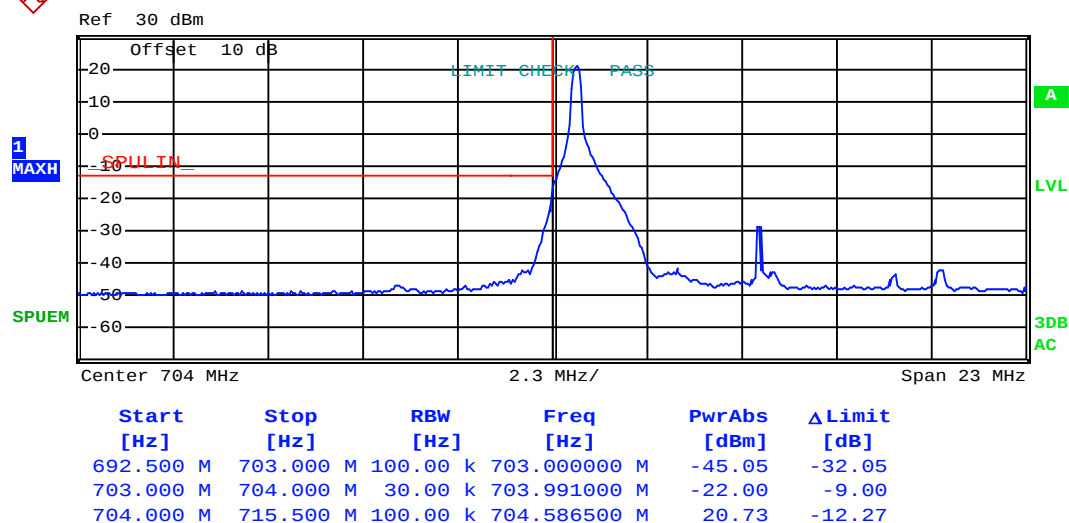


Lowest channel

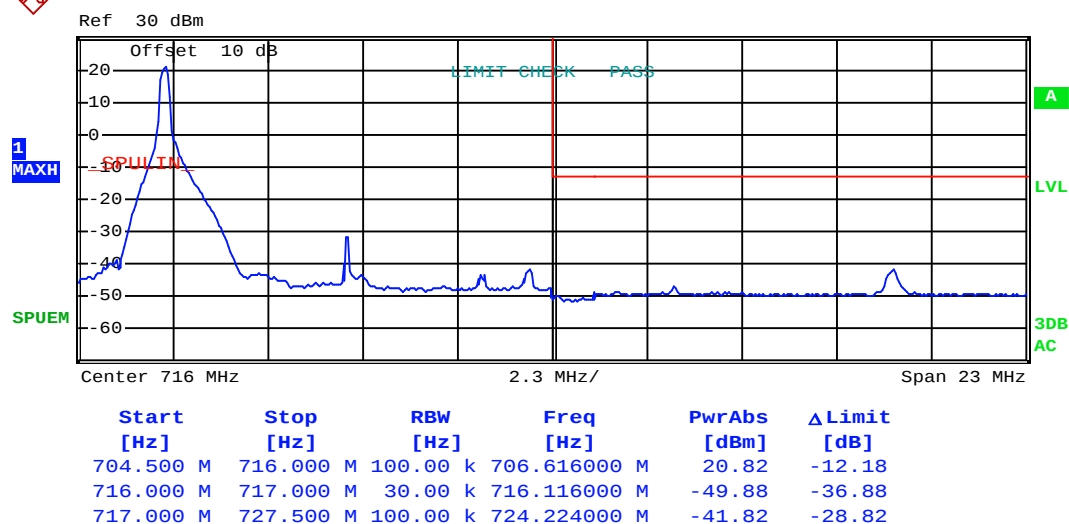


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 0)
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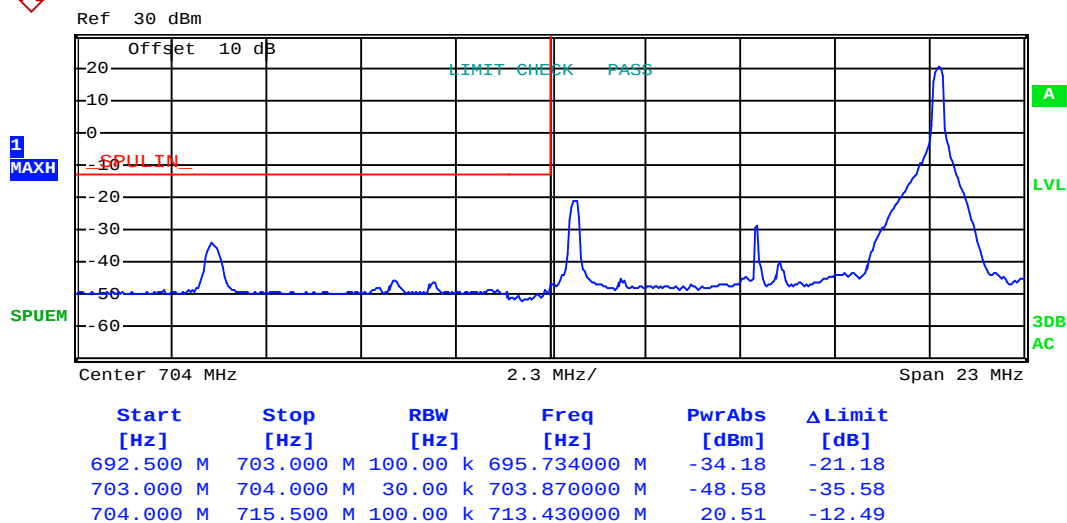
Lowest channel



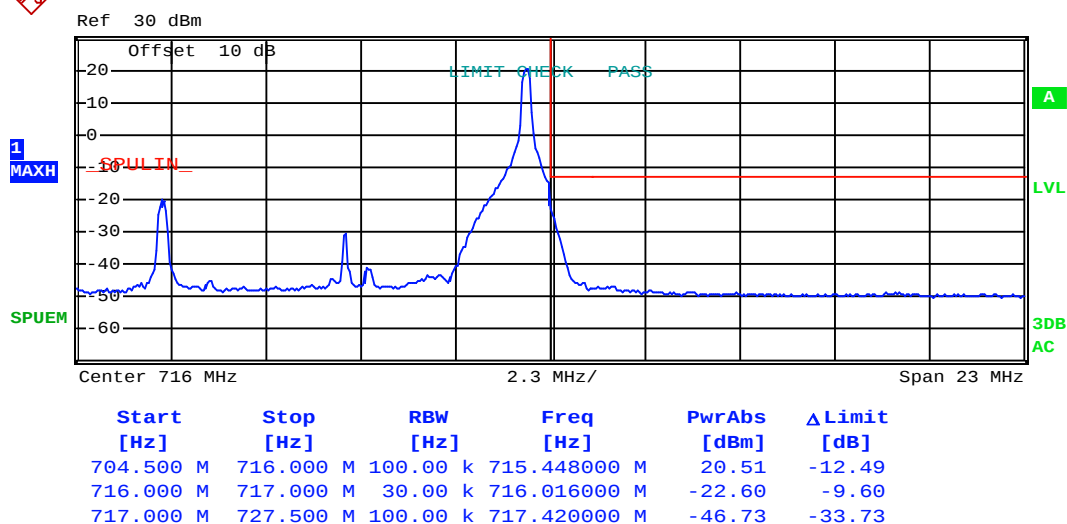
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 1 & RB Offset 49)

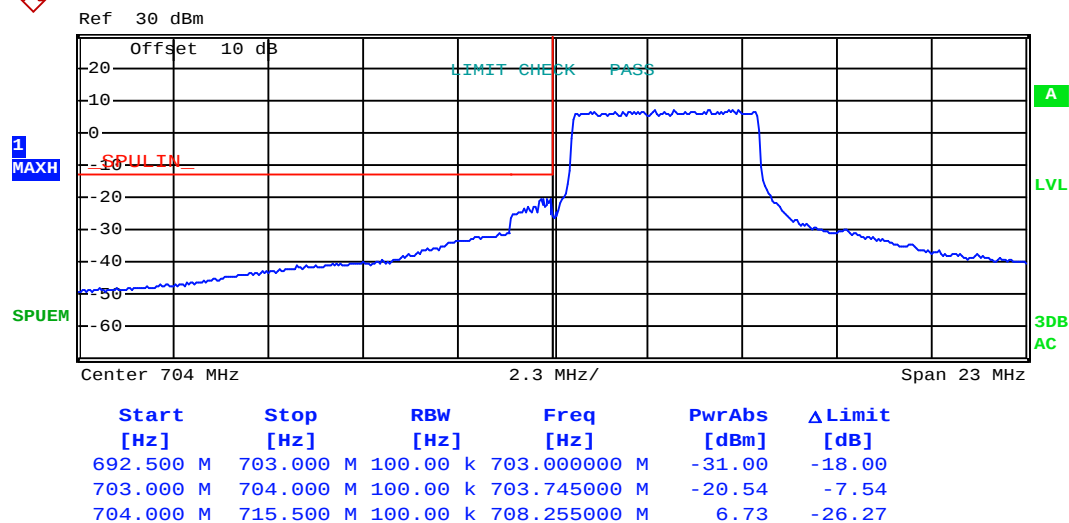


Lowest channel

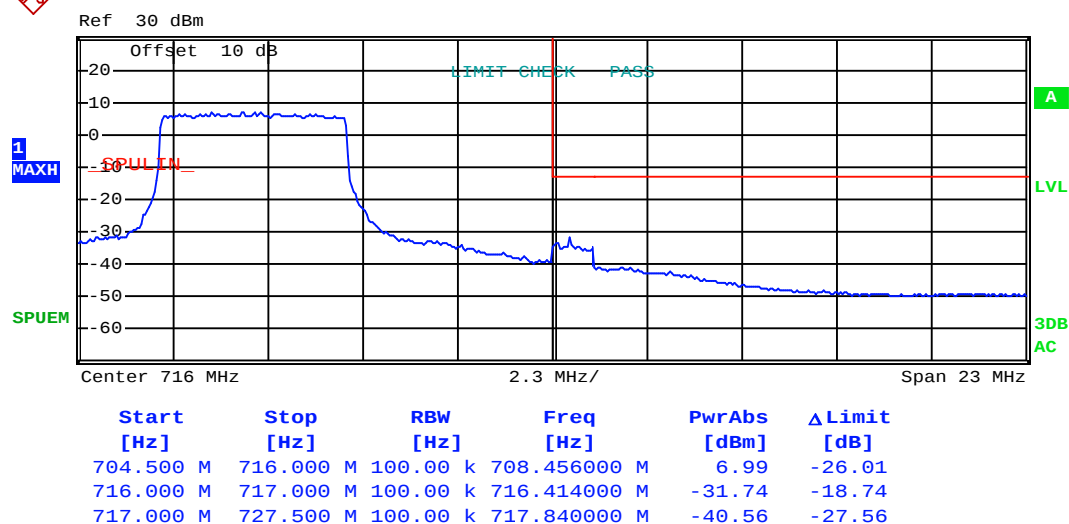


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 0)
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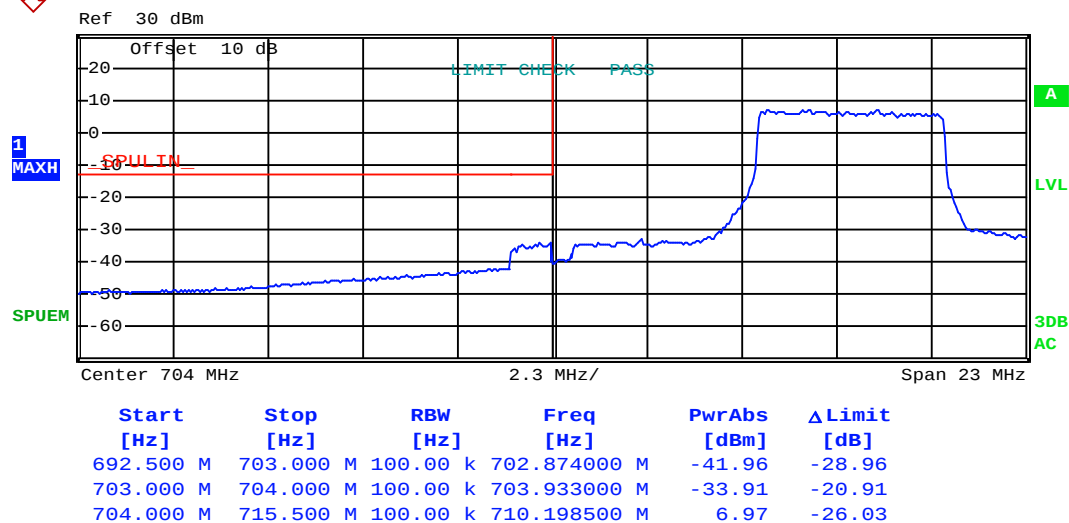


Lowest channel

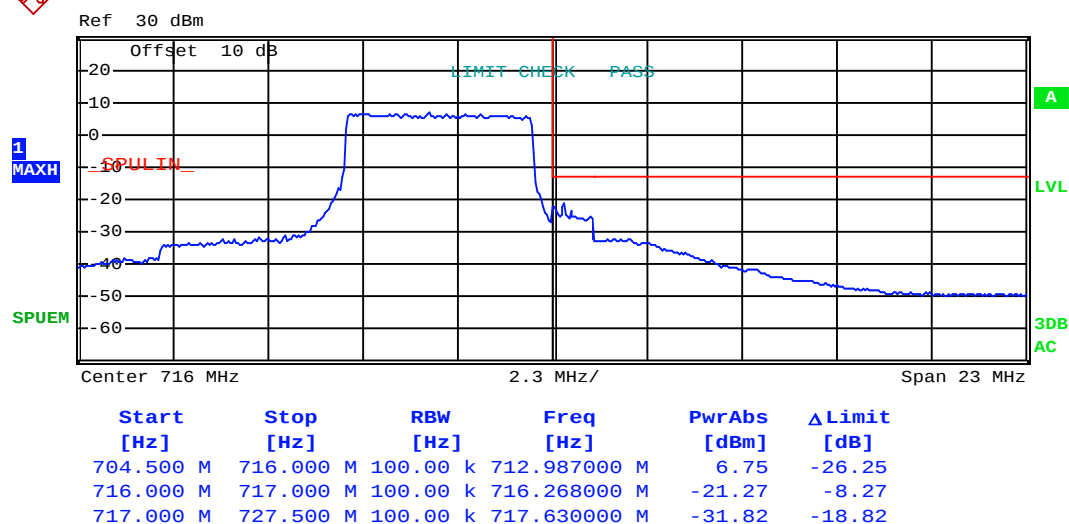


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 24)
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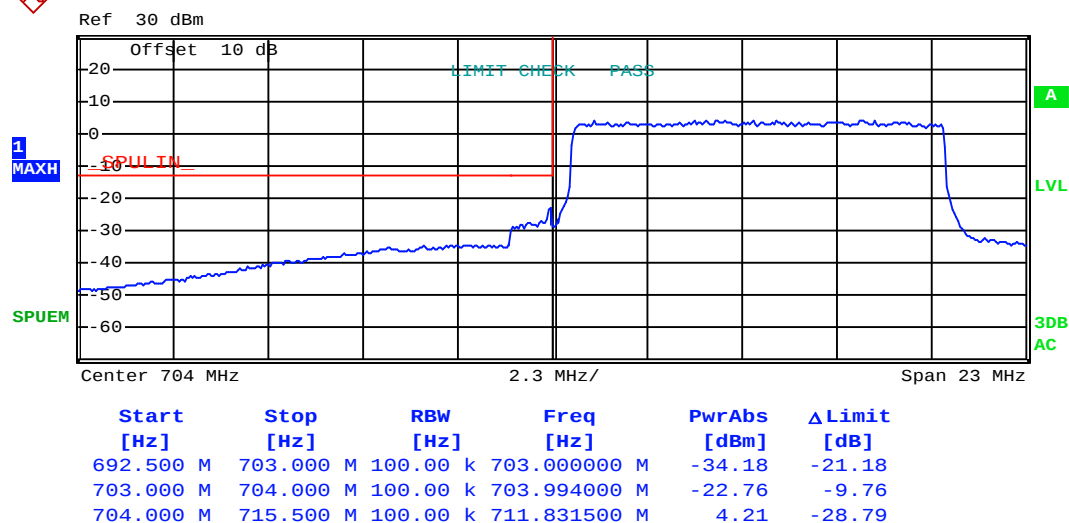
Lowest channel



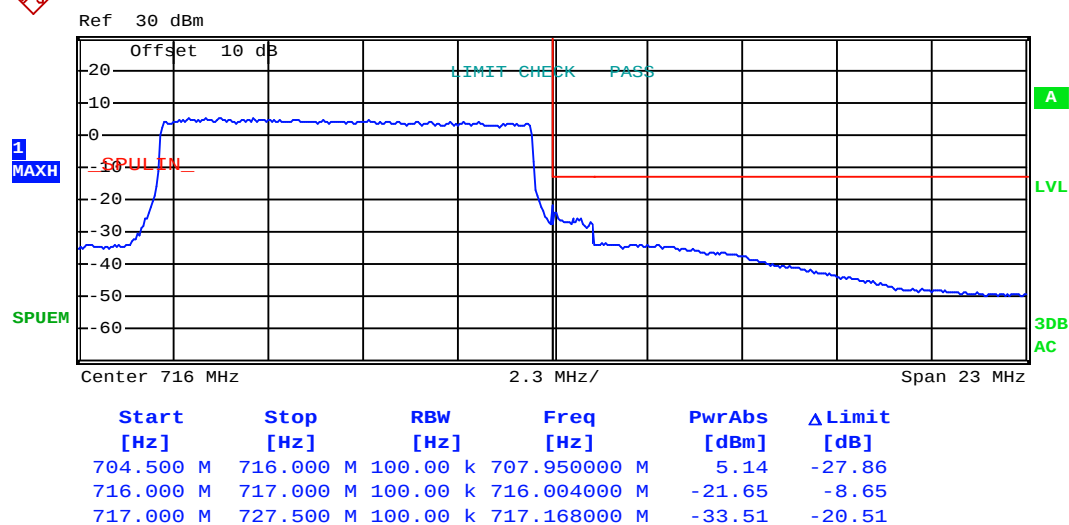
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 50 & RB Offset 0)

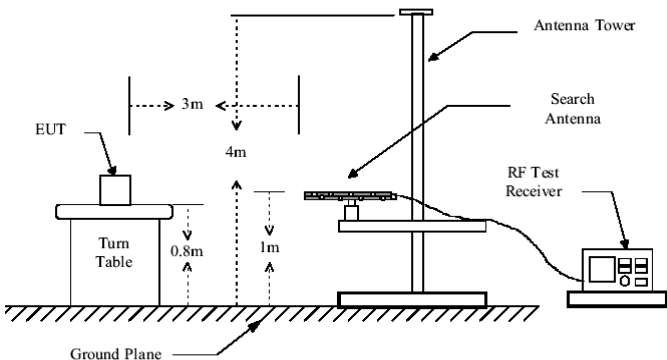
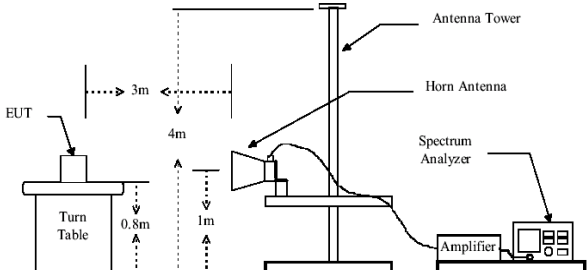
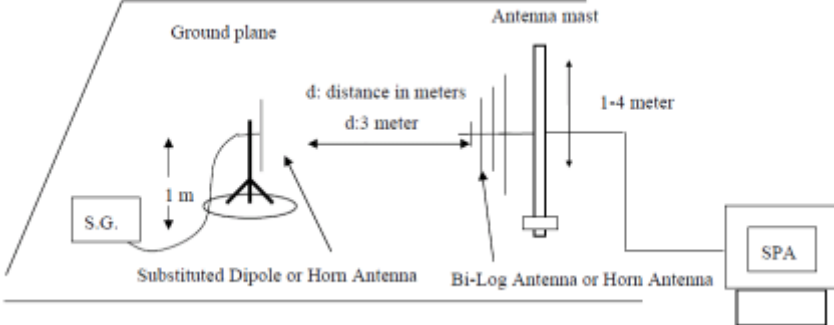


Lowest channel



Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 24.232 (c), part 27.50(c), part 27.50(d) and part 27.50(h)
Test Method:	FCC part 2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 17: 3W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. EIRP in frequency band 1850.7-1909.3MHz, 1710.7-1754.3 MHz and 706.5-713.5 MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 4. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case)

LTE band 2 part

Lowest channel

Lowest channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	22.42	33.00	Pass
					H	17.99		
1850.70	18607	16QAM	1.4	H	V	22.03		
					H	17.70		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	22.27	33.00	Pass
					H	17.66		
1850.70	18607	16QAM	1.4	H	V	22.46		
					H	17.61		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.79	33.00	Pass
					H	17.17		
1850.70	18607	16QAM	1.4	H	V	21.57		
					H	16.97		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	22.70	33.00	Pass
					H	17.73		
1880.00	18900	16QAM	1.4	H	V	22.82		
					H	17.77		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	22.60	33.00	Pass
					H	17.48		
1880.00	18900	16QAM	1.4	H	V	22.76		
					H	17.53		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	22.33	33.00	Pass
					H	17.25		
1880.00	18900	16QAM	1.40	H	V	22.17		
					H	17.55		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.76	33.00	Pass
					H	16.63		
1909.30	19193	16QAM	1.4	H	V	21.87		
					H	16.37		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.63	33.00	Pass
					H	16.44		
1909.30	19193	16QAM	1.4	H	V	21.61		
					H	15.80		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.26	33.00	Pass
					H	16.24		
1909.30	19193	16QAM	1.4	H	V	20.98		
					H	15.65		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	22.20	33.00	Pass
					H	18.25		
1860.00	18700	16QAM	20	H	V	22.61		
					H	18.08		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	22.06	33.00	Pass
					H	18.03		
1860.00	18700	16QAM	20	H	V	22.35		
					H	17.99		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	20.41	33.00	Pass
					H	16.69		
1860.00	18700	16QAM	20	H	V	20.81		
					H	17.06		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	23.07	33.00	Pass
					H	18.76		
1880.00	18900	16QAM	20	H	V	23.17		
					H	18.84		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	22.70	33.00	Pass
					H	17.89		
1880.00	18900	16QAM	20	H	V	22.91		
					H	17.89		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	20.85	33.00	Pass
					H	16.40		
1880.00	18900	16QAM	20	H	V	21.22		
					H	16.62		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	22.58	33.00	Pass
					H	17.56		
1900.00	19100	16QAM	20	H	V	23.24		
					H	17.89		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	20.43	33.00	Pass
					H	15.32		
1900.00	19100	16QAM	20	H	V	21.07		
					H	15.75		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	22.35	33.00	Pass
					H	17.01		
1900.00	19100	16QAM	20	H	V	22.53		
					H	17.20		

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.09	30.00	Pass
					H	16.56		
1710.70	19957	16QAM	1.4	H	V	22.12		
					H	15.89		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.87	30.00	Pass
					H	16.45		
1710.70	19957	16QAM	1.4	H	V	22.06		
					H	16.28		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.12	30.00	Pass
					H	16.32		
1710.70	19957	16QAM	1.4	H	V	21.34		
					H	15.47		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.26	30.00	Pass
					H	16.85		
1710.70	19957	16QAM	1.4	H	V	22.22		
					H	16.19		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.01	30.00	Pass
					H	16.63		
1710.70	19957	16QAM	1.4	H	V	21.82		
					H	16.40		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.17	30.00	Pass
					H	16.07		
1710.70	19957	16QAM	1.4	H	V	21.68		
					H	14.53		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.76	30.00	Pass
					H	23.00		
1710.70	19957	16QAM	1.4	H	V	21.86		
					H	22.48		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.02	30.00	Pass
					H	23.05		
1710.70	19957	16QAM	1.4	H	V	22.16		
					H	22.79		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.73	30.00	Pass
					H	22.84		
1710.70	19957	16QAM	1.4	H	V	21.35		
					H	22.05		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.72	30.00	Pass
					H	22.70		
1720.00	20050	16QAM	20	H	V	22.12		
					H	22.89		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.57	30.00	Pass
					H	22.54		
1720.00	20050	16QAM	20	H	V	21.81		
					H	22.48		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	19.69	30.00	Pass
					H	20.65		
1720.00	20050	16QAM	20	H	V	20.17		
					H	20.98		

Middle channel

Mid-band channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.68	30.00	Pass
					H	22.34		
1732.50	20175	16QAM	20	H	V	21.96		
					H	22.13		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.73	30.00	Pass
					H	22.30		
1732.50	20175	16QAM	20	H	V	21.99		
					H	22.32		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	19.61	30.00	Pass
					H	21.15		
1732.50	20175	16QAM	20	H	V	20.34		
					H	21.24		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	22.40	30.00	Pass
					H	23.72		
1745.00	20300	16QAM	20	H	V	22.39		
					H	23.08		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.99	30.00	Pass
					H	23.09		
1745.00	20300	16QAM	20	H	V	22.07		
					H	22.67		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	19.49	30.00	Pass
					H	20.65		
1745.00	20300	16QAM	20	H	V	19.71		
					H	20.63		

LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	15.78	33.00	Pass
					H	22.64		
2502.50	20775	16QAM	5	H	V	15.36		
					H	22.88		
5MHz(RB size 12 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	15.42	33.00	Pass
					H	22.33		
2502.50	20775	16QAM	5	H	V	14.53		
					H	22.58		
5MHz(RB size 25 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	15.77	33.00	Pass
					H	22.38		
2502.50	20775	16QAM	5	H	V	15.89		
					H	23.05		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	16.04	33.00	Pass
					H	21.25		
2535.00	21100	16QAM	5	H	V	15.81		
					H	20.80		
5MHz(RB size 12 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	16.00	33.00	Pass
					H	19.91		
2535.00	21100	16QAM	5	H	V	16.81		
					H	20.25		
5MHz(RB size 25 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	16.07	33.00	Pass
					H	20.54		
2535.00	21100	16QAM	5	H	V	16.24		
					H	21.22		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	15.56	33.00	Pass
					H	18.87		
2567.50	21425	16QAM	5	H	V	14.99		
					H	18.82		
5MHz(RB size 12 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	15.20	33.00	Pass
					H	18.60		
2567.50	21425	16QAM	5	H	V	15.79		
					H	18.61		
5MHz(RB size 25 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	15.33	33.00	Pass
					H	18.54		
2567.50	21425	16QAM	5	H	V	15.27		
					H	19.00		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	15.37	33.00	Pass
					H	22.39		
2510.00	20850	16QAM	20	H	V	15.29		
					H	22.87		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	15.91	33.00	Pass
					H	22.26		
2510.00	20850	16QAM	20	H	V	16.09		
					H	22.89		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	15.71	33.00	Pass
					H	20.95		
2510.00	20850	16QAM	20	H	V	15.83		
					H	21.71		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	17.31	33.00	Pass
					H	22.02		
2535.00	21100	16QAM	20	H	V	16.76		
					H	21.95		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	16.58	33.00	Pass
					H	21.18		
2535.00	21100	16QAM	20	H	V	16.70		
					H	21.85		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	15.15	33.00	Pass
					H	19.81		
2535.00	21100	16QAM	20	H	V	15.37		
					H	20.40		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	15.93	33.00	Pass
					H	18.74		
2560.00	21350	16QAM	20	H	V	15.80		
					H	20.48		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	16.18	33.00	Pass
					H	19.68		
2560.00	21350	16QAM	20	H	V	17.52		
					H	19.81		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	15.38	33.00	Pass
					H	18.98		
2560.00	21350	16QAM	20	H	V	15.45		
					H	19.98		

**LTE band 17 part
Lowest channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	12.99	34.77	Pass
					H	10.86		
706.50	23755	16QAM	5	H	V	12.69		
					H	10.75		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	11.59	34.77	Pass
					H	10.10		
706.50	23755	16QAM	5	H	V	11.19		
					H	10.06		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	13.02	34.77	Pass
					H	10.90		
706.50	23755	16QAM	5	H	V	13.73		
					H	11.59		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	14.57	34.77	Pass
					H	12.84		
710.00	23790	16QAM	5	H	V	14.93		
					H	12.62		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	13.20	34.77	Pass
					H	11.58		
710.00	23790	16QAM	5	H	V	12.40		
					H	10.32		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	12.72	34.77	Pass
					H	10.69		
710.00	23790	16QAM	5	H	V	13.45		
					H	11.36		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	13.34	34.77	Pass
					H	11.01		
713.50	23825	16QAM	5	H	V	13.06		
					H	11.00		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	11.57	34.77	Pass
					H	9.56		
713.50	23825	16QAM	5	H	V	11.67		
					H	8.89		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	12.07	34.77	Pass
					H	9.86		
713.50	23825	16QAM	5	H	V	12.21		
					H	9.90		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	13.11	34.77	Pass
					H	10.80		
709.00	23780	16QAM	10	H	V	13.39		
					H	10.47		
10MHz(RB size 25 & RB offset 0)								
709.00	23780	QPSK	10	H	V	13.53	34.77	Pass
					H	11.28		
709.00	23780	16QAM	10	H	V	13.63		
					H	11.35		
10MHz(RB size 50 & RB offset 0)								
709.00	23780	QPSK	10	H	V	12.66	34.77	Pass
					H	10.32		
709.00	23780	16QAM	10	H	V	13.08		
					H	10.78		

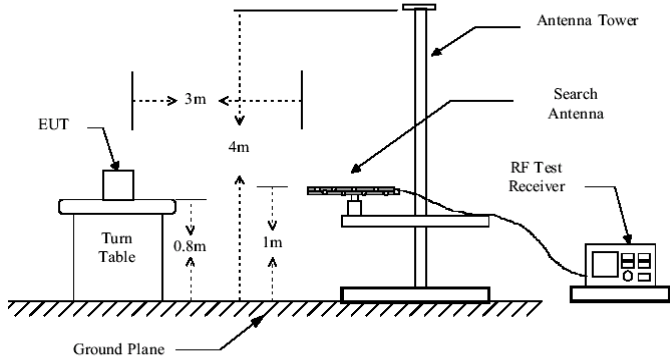
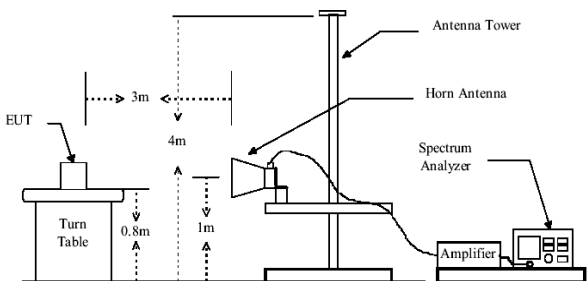
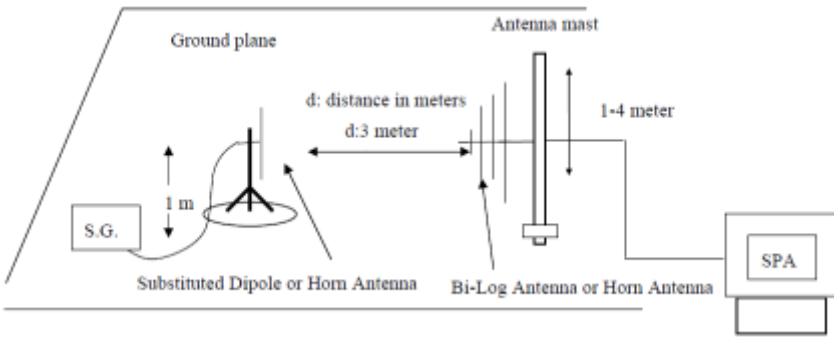
Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	13.78	34.77	Pass
					H	6.64		
710.00	23790	16QAM	10	H	V	13.45		
					H	6.16		
10MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	10	H	V	15.16	34.77	Pass
					H	6.57		
710.00	23790	16QAM	10	H	V	14.06		
					H	6.75		
10MHz(RB size 50 & RB offset 0)								
710.00	23790	QPSK	10	H	V	12.77	34.77	Pass
					H	5.49		
710.00	23790	16QAM	10	H	V	13.15		
					H	5.96		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	14.27	34.77	Pass
					H	7.09		
711.00	23800	16QAM	10	H	V	14.32		
					H	7.33		
10MHz(RB size 25 & RB offset 0)								
711.00	23800	QPSK	10	H	V	13.64	34.77	Pass
					H	6.64		
711.00	23800	16QAM	10	H	V	13.77		
					H	6.71		
10MHz(RB size 50 & RB offset 0)								
711.00	23800	QPSK	10	H	V	13.01	34.77	Pass
					H	5.94		
711.00	23800	16QAM	10	H	V	13.30		
					H	6.27		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 24.238 (a), part 27.53(g), part 27.53(h) and part 27.53(m)
Test Method:	FCC part 2.1053
Limit:	LTE Band 2, LTE Band 4 and LTE Band 7: -13dBm LTE Band 7: -25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. 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. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case)**Below 1GHz:**

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

Above 1GHz

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE band 2 part:

LTE band 2 part 1

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-46.21	-13.00	Pass
5552.10	V	-23.67		
7402.00	V	-29.48		
3701.40	Horizontal	-44.88		
5552.10	H	-21.72		
7402.00	H	-25.81		
Middle				
3760.00	Vertical	-48.45	-13.00	Pass
5640.00	V	-23.54		
7520.00	V	-29.50		
3760.00	Horizontal	-45.16		
5640.00	H	-21.60		
7520.00	H	-25.67		
Highest				
3816.60	Vertical	-48.38	-13.00	Pass
5724.90	V	-22.49		
7633.20	V	-27.55		
3816.60	Horizontal	-45.35		
5724.90	H	-20.37		
7633.20	H	-24.30		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-48.86	-13.00	Pass
5554.50	V	-23.90		
7406.00	V	-27.90		
3703.00	Horizontal	-44.09		
5554.50	H	-21.39		
7406.00	H	-25.72		
Middle				
3760.00	Vertical	-47.49	-13.00	Pass
5640.00	V	-23.80		
7520.00	V	-29.12		
3760.00	Horizontal	-42.71		
5640.00	H	-21.24		
7520.00	H	-26.25		

Highest				
3817.00	Vertical	-47.47	-13.00	Pass
5725.50	V	-22.18		
7634.00	V	-29.70		
3817.00	Horizontal	-42.18		
5725.50	H	-20.17		
7634.00	H	-24.62		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-47.35	-13.00	Pass
5557.50	V	-24.51		
7410.00	V	-28.52		
3705.00	Horizontal	-46.90		
5557.50	H	-21.11		
7410.00	H	-27.40		
Middle				
3760.00	Vertical	-46.15	-13.00	Pass
5640.00	V	-24.37		
7520.00	V	-29.82		
3760.00	Horizontal	-41.09		
5640.00	H	-21.27		
7520.00	H	-25.77		
Highest				
3815.00	Vertical	-47.10	-13.00	Pass
5722.50	V	-22.48		
7630.00	V	-30.81		
3815.00	Horizontal	-44.21		
5722.50	H	-20.69		
7630.00	H	-26.58		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-45.67	-13.00	Pass
5565.00	V	-19.79		
7420.00	V	-28.06		
3710.00	Horizontal	-41.15		
5565.00	H	-18.87		
7420.00	H	-25.45		

Middle				
3760.00	Vertical	-43.82	-13.00	Pass
5640.00	V	-20.87		
7520.00	V	-27.44		
3760.00	Horizontal	-41.68		
5640.00	H	-20.33		
7520.00	H	-26.25		
Highest				
3810.00	Vertical	-46.68	-13.00	Pass
5715.00	V	-22.69		
7620.00	V	-29.15		
3810.00	Horizontal	-46.03		
5715.00	H	-20.02		
7620.00	H	-28.64		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-46.66	-13.00	Pass
5572.50	V	-22.22		
7430.00	V	-27.79		
3715.00	Horizontal	-39.92		
5572.50	H	-21.90		
7430.00	H	-29.91		
Middle				
3760.00	Vertical	-45.63	-13.00	Pass
5640.00	V	-21.32		
7520.00	V	-28.01		
3760.00	Horizontal	-40.37		
5640.00	H	-22.07		
7520.00	H	-26.26		
Highest				
3805.00	Vertical	-46.02	-13.00	Pass
5707.50	V	-22.01		
7610.00	V	-30.31		
3805.00	Horizontal	-40.36		
5707.50	H	-21.72		
7610.00	H	-29.87		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-45.51	-13.00	Pass
5580.00	V	-22.40		
7440.00	V	-28.46		
3720.00	Horizontal	-41.76		
5580.00	H	-22.72		
7440.00	H	-29.46		
Middle				
3760.00	Vertical	-46.00	-13.00	Pass
5640.00	V	-21.67		
7520.00	V	-29.06		
3760.00	Horizontal	-43.01		
5640.00	H	-23.01		
7520.00	H	-27.89		
Highest				
3800.00	Vertical	-45.39	-13.00	Pass
5700.00	V	-21.32		
7600.00	V	-29.95		
3800.00	Horizontal	-43.12		
5700.00	H	-20.78		
7600.00	H	-30.68		

LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-37.30	-13.00	Pass
5132.10	V	-32.59		
6842.80	V	-24.43		
3421.40	Horizontal	-37.87		
5132.10	H	-25.62		
6842.80	H	-22.39		
Middle				
3465.00	Vertical	-37.52	-13.00	Pass
5197.50	V	-33.86		
6930.00	V	-28.83		
3465.00	Horizontal	-38.97		
5197.50	H	-27.47		
6930.00	H	-26.25		
Highest				
3508.60	Vertical	-37.60	-13.00	Pass
5262.90	V	-29.84		
7017.20	V	-17.37		
3508.60	Horizontal	-38.07		
5262.90	H	-24.74		
7017.20	H	-18.86		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-34.79	-13.00	Pass
5134.50	V	-33.11		
6846.00	V	-23.84		
3423.00	Horizontal	-33.90		
5134.50	H	-26.12		
6846.00	H	-22.14		
Middle				
3465.00	Vertical	-34.99	-13.00	Pass
5197.50	V	-33.21		
6930.00	V	-22.94		
3465.00	Horizontal	-38.50		
5197.50	H	-27.46		
6930.00	H	-22.17		

Highest				
3507.00	Vertical	-39.15	-13.00	Pass
5260.50	V	-31.13		
7014.00	V	-18.17		
3507.00	Horizontal	-36.63		
5260.50	H	-25.69		
7014.00	H	-19.73		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-35.38	-13.00	Pass
5137.50	V	-28.90		
6850.00	V	-23.95		
3425.00	Horizontal	-41.28		
5137.50	H	-29.53		
6850.00	H	-22.38		
Middle				
3465.00	Vertical	-39.32	-13.00	Pass
5197.50	V	-31.43		
6930.00	V	-23.64		
3465.00	Horizontal	-36.47		
5197.50	H	-31.92		
6930.00	H	-22.17		
Highest				
3505.00	Vertical	-37.60	-13.00	Pass
5257.50	V	-30.93		
7010.00	V	-19.87		
3505.00	Horizontal	-39.02		
5257.50	H	-30.29		
7010.00	H	-20.11		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-42.24	-13.00	Pass
5145.00	V	-32.78		
6860.00	V	-24.74		
3430.00	Horizontal	-40.86		
5145.00	H	-31.65		
6860.00	H	-22.98		

Middle				
3465.00	Vertical	-40.64	-13.00	Pass
5197.50	V	-34.42		
6930.00	V	-26.69		
3465.00	Horizontal	-41.32		
5197.50	H	-33.49		
6930.00	H	-20.94		
Highest				
3500.00	Vertical	-41.96	-13.00	Pass
5250.00	V	-31.16		
7000.00	V	-21.49		
3500.00	Horizontal	-41.57		
5250.00	H	-28.27		
7000.00	H	-21.49		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-37.60	-13.00	Pass
5152.50	V	-33.03		
6870.00	V	-24.44		
3435.00	Horizontal	-41.33		
5152.50	H	-32.18		
6870.00	H	-23.25		
Middle				
3465.00	Vertical	-42.69	-13.00	Pass
5197.50	V	-32.75		
6930.00	V	-24.78		
3465.00	Horizontal	-41.16		
5197.50	H	-31.10		
6930.00	H	-23.73		
Highest				
3495.00	Vertical	-42.78	-13.00	Pass
5242.50	V	-33.33		
6990.00	V	-23.06		
3495.00	Horizontal	-43.03		
5242.50	H	-27.78		
6990.00	H	-22.63		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-43.29	-13.00	Pass
5160.00	V	-34.56		
6880.00	V	-24.11		
3440.00	Horizontal	-42.19		
5160.00	H	-28.72		
6880.00	H	-22.36		
Middle				
3465.00	Vertical	-43.11	-13.00	Pass
5197.50	V	-32.74		
6930.00	V	-24.73		
3465.00	Horizontal	-41.29		
5197.50	H	-33.29		
6930.00	H	-22.19		
Highest				
3490.00	Vertical	-41.29	-13.00	Pass
5235.00	V	-33.79		
6980.00	V	-22.61		
3490.00	Horizontal	-42.13		
5235.00	H	-30.60		
6980.00	H	-21.89		

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-41.36	-25.00	Pass
7507.50	V	-31.77		
10010.00	V	-35.15		
5005.00	Horizontal	-42.35		
7507.50	H	-33.71		
10010.00	H	-35.94		
Middle				
5070.00	Vertical	-39.93	-25.00	Pass
7605.00	V	-30.15		
10140.00	V	-33.60		
5070.00	Horizontal	-39.28		
7605.00	H	-34.52		
10140.00	H	-34.34		
Highest				
5135.00	Vertical	-39.65	-25.00	Pass
7702.50	V	-29.46		
10270.00	V	-33.19		
5135.00	Horizontal	-38.18		
7702.50	H	-32.34		
10270.00	H	-33.71		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-39.33	-25.00	Pass
7515.00	V	-33.15		
10020.00	V	-33.91		
5010.00	Horizontal	-37.16		
7515.00	H	-33.02		
10020.00	H	-34.58		

Middle				
5070.00	Vertical	-37.26	-25.00	Pass
7605.00	V	-29.77		
10140.00	V	-33.08		
5070.00	Horizontal	-37.22		
7605.00	H	-33.90		
10140.00	H	-32.97		
Highest				
5130.00	Vertical	-38.19	-25.00	Pass
7695.00	V	-31.85		
10260.00	V	-32.31		
5130.00	Horizontal	-36.08		
7695.00	H	-33.07		
10260.00	H	-34.08		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-40.40	-25.00	Pass
7522.50	V	-32.58		
10030.00	V	-34.56		
5015.00	Horizontal	-38.57		
7522.50	H	-33.11		
10030.00	H	-34.97		
Middle				
5070.00	Vertical	-39.91	-25.00	Pass
7605.00	V	-29.80		
10140.00	V	-33.73		
5070.00	Horizontal	-39.96		
7605.00	H	-33.88		
10140.00	H	-34.05		
Highest				
5125.00	Vertical	-40.05	-25.00	Pass
7687.50	V	-30.03		
10250.00	V	-32.61		
5125.00	Horizontal	-37.48		
7687.50	H	-34.46		
10250.00	H	-33.18		

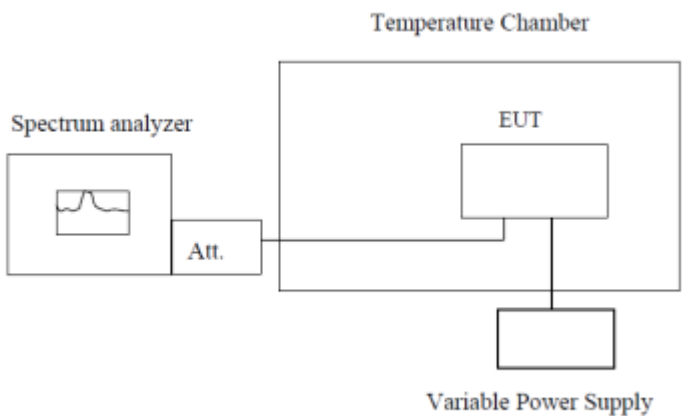
20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-39.34	-25.00	Pass
7530.00	V	-33.10		
10040.00	V	-35.14		
5020.00	Horizontal	-37.39		
7530.00	H	-33.47		
10040.00	H	-34.49		
Middle				
5070.00	Vertical	-41.69	-25.00	Pass
7605.00	V	-30.87		
10140.00	V	-33.58		
5070.00	Horizontal	-38.85		
7605.00	H	-34.07		
10140.00	H	-34.74		
Highest				
5120.00	Vertical	-40.99	-25.00	Pass
7680.00	V	-29.85		
10240.00	V	-32.73		
5120.00	Horizontal	-41.39		
7680.00	H	-32.97		
10240.00	H	-32.57		

LTE Band 17 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1413.00	Vertical	-47.84	-13.00	Pass
2119.50	V	-48.59		
2826.00	V	-51.19		
1413.00	Horizontal	-52.16		
2119.50	H	-54.87		
2826.00	H	-52.17		
Middle				
1420.00	Vertical	-50.09	-13.00	Pass
2130.00	V	-44.26		
2840.00	V	-52.35		
1420.00	Horizontal	-52.61		
2130.00	H	-54.44		
2840.00	H	-55.25		
Highest				
1427.00	Vertical	-48.89	-13.00	Pass
2140.50	V	-49.11		
2854.00	V	-51.41		
1427.00	Horizontal	-49.64		
2140.50	H	-56.72		
2854.00	H	-52.61		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-53.53	-13.00	Pass
2127.00	V	-48.77		
2836.00	V	-52.62		
1418.00	Horizontal	-53.53		
2127.00	H	-57.24		
2836.00	H	-52.22		
Middle				
1420.00	Vertical	-53.86	-13.00	Pass
2130.00	V	-50.39		
2840.00	V	-51.40		
1420.00	Horizontal	-56.00		
2130.00	H	-55.29		
2840.00	H	-52.45		
Highest				
1422.00	Vertical	-53.15	-13.00	Pass
2133.00	V	-47.20		
2844.00	V	-52.19		
1422.00	Horizontal	-54.38		
2133.00	H	-56.69		
2844.00	H	-53.22		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	±2.5 ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	170	0.090426	±2.5	Pass
	-20	120	0.063830		
	-10	121	0.064362		
	0	155	0.082447		
	10	80	0.042553		
	20	124	0.065957		
	30	123	0.065426		
	40	141	0.075000		
	50	86	0.045745		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	123	0.065426	±2.5	Pass
	-20	160	0.085106		
	-10	142	0.075532		
	0	101	0.053723		
	10	118	0.062766		
	20	101	0.053723		
	30	133	0.070745		
	40	122	0.064894		
	50	150	0.079787		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	110	0.058511	±2.5	Pass
	-20	101	0.053723		
	-10	78	0.041489		
	0	57	0.030319		
	10	61	0.032447		
	20	70	0.037234		
	30	59	0.031383		
	40	93	0.049468		
	50	100	0.053191		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	80	0.042553	±2.5	Pass
	-20	102	0.054255		
	-10	67	0.035638		
	0	91	0.048404		
	10	122	0.064894		
	20	105	0.055851		
	30	83	0.044149		
	40	139	0.073936		
	50	81	0.043085		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	92	0.048936	±2.5	Pass
	-20	88	0.046809		
	-10	73	0.038830		
	0	101	0.053723		
	10	55	0.029255		
	20	122	0.064894		
	30	93	0.049468		
	40	107	0.056915		
	50	92	0.048936		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	130	0.069149	±2.5	Pass
	-20	141	0.075000		
	-10	117	0.062234		
	0	92	0.048936		
	10	41	0.021809		
	20	93	0.049468		
	30	78	0.041489		
	40	102	0.054255		
	50	100	0.053191		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	110	0.058511	±2.5	Pass
	-20	104	0.055319		
	-10	123	0.065426		
	0	141	0.075000		
	10	98	0.052128		
	20	136	0.072340		
	30	129	0.068617		
	40	121	0.064362		
	50	102	0.054255		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	112	0.059574	±2.5	Pass
	-20	130	0.069149		
	-10	127	0.067553		
	0	93	0.049468		
	10	102	0.054255		
	20	128	0.068085		
	30	141	0.075000		
	40	106	0.056383		
	50	122	0.064894		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	137	0.072872	±2.5	Pass
	-20	83	0.044149		
	-10	99	0.052660		
	0	105	0.055851		
	10	111	0.059043		
	20	118	0.062766		
	30	129	0.068617		
	40	132	0.070213		
	50	114	0.060638		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	98	0.052128	±2.5	Pass
	-20	123	0.065426		
	-10	72	0.038298		
	0	97	0.051596		
	10	113	0.060106		
	20	102	0.054255		
	30	95	0.050532		
	40	129	0.068617		
	50	92	0.048936		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	108	0.057447	±2.5	Pass
	-20	93	0.049468		
	-10	82	0.043617		
	0	128	0.068085		
	10	136	0.072340		
	20	109	0.057979		
	30	82	0.043617		
	40	124	0.065957		
	50	89	0.047340		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	128	0.068085	±2.5	Pass
	-20	152	0.080851		
	-10	123	0.065426		
	0	101	0.053723		
	10	78	0.041489		
	20	81	0.043085		
	30	92	0.048936		
	40	116	0.061702		
	50	91	0.048404		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	175	0.101010	±2.5	Pass
	-20	122	0.070418		
	-10	121	0.069841		
	0	157	0.090620		
	10	83	0.047908		
	20	129	0.074459		
	30	127	0.073304		
	40	145	0.083694		
	50	89	0.051371		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	121	0.069841	±2.5	Pass
	-20	162	0.093506		
	-10	145	0.083694		
	0	107	0.061760		
	10	116	0.066955		
	20	106	0.061183		
	30	132	0.076190		
	40	121	0.069841		
	50	156	0.090043		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	116	0.066955	±2.5	Pass
	-20	103	0.059452		
	-10	72	0.041558		
	0	55	0.031746		
	10	67	0.038672		
	20	71	0.040981		
	30	58	0.033478		
	40	90	0.051948		
	50	104	0.060029		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	80	0.046176	±2.5	Pass
	-20	107	0.061760		
	-10	64	0.036941		
	0	93	0.053680		
	10	124	0.071573		
	20	103	0.059452		
	30	89	0.051371		
	40	135	0.077922		
	50	82	0.047330		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	97	0.055988	±2.5	Pass
	-20	88	0.050794		
	-10	72	0.041558		
	0	104	0.060029		
	10	52	0.030014		
	20	123	0.070996		
	30	92	0.053102		
	40	108	0.062338		
	50	93	0.053680		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	137	0.079076	±2.5	Pass
	-20	143	0.082540		
	-10	115	0.066378		
	0	93	0.053680		
	10	41	0.023665		
	20	95	0.054834		
	30	77	0.044444		
	40	103	0.059452		
	50	108	0.062338		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	147	0.084848	±2.5	Pass
	-20	101	0.058297		
	-10	123	0.070996		
	0	142	0.081962		
	10	98	0.056566		
	20	133	0.076768		
	30	129	0.074459		
	40	122	0.070418		
	50	105	0.060606		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	119	0.068687	±2.5	Pass
	-20	133	0.076768		
	-10	125	0.072150		
	0	96	0.055411		
	10	108	0.062338		
	20	129	0.074459		
	30	141	0.081385		
	40	107	0.061760		
	50	126	0.072727		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	136	0.078499	±2.5	Pass
	-20	83	0.047908		
	-10	97	0.055988		
	0	101	0.058297		
	10	113	0.065224		
	20	119	0.068687		
	30	125	0.072150		
	40	132	0.076190		
	50	111	0.064069		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	98	0.056566	±2.5	Pass
	-20	123	0.070996		
	-10	79	0.045599		
	0	95	0.054834		
	10	114	0.065801		
	20	108	0.062338		
	30	92	0.053102		
	40	127	0.073304		
	50	95	0.054834		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	102	0.058874	±2.5	Pass
	-20	93	0.053680		
	-10	88	0.050794		
	0	121	0.069841		
	10	139	0.080231		
	20	102	0.058874		
	30	83	0.047908		
	40	126	0.072727		
	50	88	0.050794		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.072727	±2.5	Pass
	-20	156	0.090043		
	-10	122	0.070418		
	0	101	0.058297		
	10	79	0.045599		
	20	85	0.049062		
	30	93	0.053680		
	40	118	0.068110		
	50	91	0.052525		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	178	0.070217	±2.5	Pass
	-20	162	0.063905		
	-10	125	0.049310		
	0	73	0.028797		
	10	97	0.038264		
	20	101	0.039842		
	30	109	0.042998		
	40	82	0.032347		
	50	73	0.028797		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	92	0.036292	±2.5	Pass
	-20	125	0.049310		
	-10	121	0.047732		
	0	138	0.054438		
	10	99	0.039053		
	20	82	0.032347		
	30	83	0.032742		
	40	115	0.045365		
	50	126	0.049704		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	140	0.055227	±2.5	Pass
	-20	120	0.047337		
	-10	85	0.033531		
	0	87	0.034320		
	10	125	0.049310		
	20	141	0.055621		
	30	96	0.037870		
	40	86	0.033925		
	50	92	0.036292		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	132	0.052071	±2.5	Pass
	-20	36	0.014201		
	-10	82	0.032347		
	0	60	0.023669		
	10	101	0.039842		
	20	108	0.042604		
	30	92	0.036292		
	40	91	0.035897		
	50	88	0.034714		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	90	0.035503	±2.5	Pass
	-20	76	0.029980		
	-10	102	0.040237		
	0	168	0.066272		
	10	171	0.067456		
	20	92	0.036292		
	30	88	0.034714		
	40	167	0.065878		
	50	169	0.066667		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	82	0.032347	±2.5	Pass
	-20	75	0.029586		
	-10	91	0.035897		
	0	136	0.053649		
	10	68	0.026824		
	20	83	0.032742		
	30	79	0.031164		
	40	107	0.042209		
	50	121	0.047732		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	165	0.065089	2.5	Pass
	-20	142	0.056016		
	-10	93	0.036686		
	0	105	0.041420		
	10	79	0.031164		
	20	91	0.035897		
	30	84	0.033136		
	40	77	0.030375		
	50	73	0.028797		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	158	0.062327	2.5	Pass
	-20	95	0.037475		
	-10	102	0.040237		
	0	146	0.057594		
	10	91	0.035897		
	20	85	0.033531		
	30	64	0.025247		
	40	76	0.029980		
	50	93	0.036686		

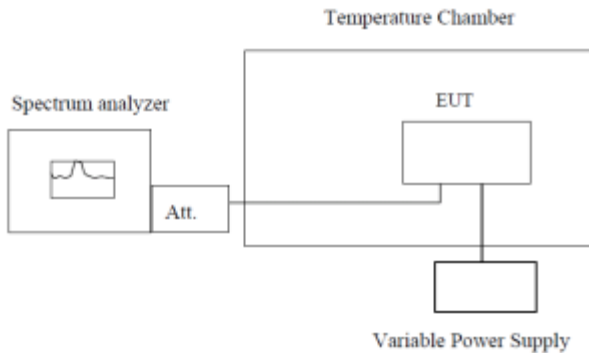
LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	177	0.249296	±2.5	Pass
	-20	125	0.176056		
	-10	95	0.133803		
	0	71	0.100000		
	10	92	0.129577		
	20	83	0.116901		
	30	65	0.091549		
	40	80	0.112676		
50	119	0.167606			
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	95	0.133803	±2.5	Pass
	-20	155	0.218310		
	-10	121	0.170423		
	0	137	0.192958		
	10	91	0.128169		
	20	83	0.116901		
	30	96	0.135211		
	40	109	0.153521		
	50	97	0.136620		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	141	0.198592	±2.5	Pass
	-20	99	0.139437		
	-10	82	0.115493		
	0	63	0.088732		
	10	78	0.109859		
	20	81	0.114085		
	30	106	0.149296		
	40	132	0.185915		
	50	86	0.121127		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	116	0.163380	±2.5	Pass
	-20	93	0.130986		
	-10	87	0.122535		
	0	79	0.111268		
	10	158	0.222535		
	20	101	0.142254		
	30	92	0.129577		
	40	135	0.190141		
	50	99	0.139437		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)
Test Method:	FCC Part 2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	145	0.077128	±2.5	Pass
	3.70	82	0.043617		
	3.40	51	0.027128		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	79	0.042021	±2.5	Pass
	3.70	92	0.048936		
	3.40	83	0.044149		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	63	0.033511	±2.5	Pass
	3.70	58	0.030851		
	3.40	102	0.054255		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	91	0.048404	±2.5	Pass
	3.70	82	0.043617		
	3.40	69	0.036702		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.032447	±2.5	Pass
	3.70	78	0.041489		
	3.40	96	0.051064		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.032447	±2.5	Pass
	3.70	82	0.043617		
	3.40	73	0.038830		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	109	0.057979	±2.5	Pass
	3.70	75	0.039894		
	3.40	91	0.048404		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.046809	±2.5	Pass
	3.70	104	0.055319		
	3.40	76	0.040426		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.045213	±2.5	Pass
	3.70	78	0.041489		
	3.40	81	0.043085		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.051064	±2.5	Pass
	3.70	93	0.049468		
	3.40	82	0.043617		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	58	0.030851	±2.5	Pass
	3.70	71	0.037766		
	3.40	82	0.043617		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	87	0.046277	±2.5	Pass
	3.70	104	0.055319		
	3.40	113	0.060106		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	154	0.088889	±2.5	Pass
	3.70	81	0.046753		
	3.40	52	0.030014		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	73	0.042136	±2.5	Pass
	3.70	95	0.054834		
	3.40	86	0.049639		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	68	0.039250	±2.5	Pass
	3.70	55	0.031746		
	3.40	104	0.060029		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.054834	±2.5	Pass
	3.70	82	0.047330		
	3.40	63	0.036364		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	68	0.039250	±2.5	Pass
	3.70	72	0.041558		
	3.40	96	0.055411		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	69	0.039827	±2.5	Pass
	3.70	82	0.047330		
	3.40	72	0.041558		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	105	0.060606	±2.5	Pass
	3.70	73	0.042136		
	3.40	91	0.052525		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	86	0.049639	±2.5	Pass
	3.70	105	0.060606		
	3.40	76	0.043867		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	81	0.046753	±2.5	Pass
	3.70	78	0.045022		
	3.40	85	0.049062		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	97	0.055988	±2.5	Pass
	3.70	92	0.053102		
	3.40	85	0.049062		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	53	0.030592	±2.5	Pass
	3.70	75	0.043290		
	3.40	81	0.046753		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	84	0.048485	±2.5	Pass
	3.70	107	0.061760		
	3.40	113	0.065224		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	152	0.059961	±2.5	Pass
	3.70	63	0.024852		
	3.40	32	0.012623		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	98	0.038659	±2.5	Pass
	3.70	54	0.021302		
	3.40	46	0.018146		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	83	0.032742	±2.5	Pass
	3.70	72	0.028402		
	3.40	55	0.021696		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.024063	±2.5	Pass
	3.70	72	0.028402		
	3.40	98	0.038659		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	89	0.035108	±2.5	Pass
	3.70	82	0.032347		
	3.40	68	0.026824		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	33	0.013018	±2.5	Pass
	3.70	85	0.033531		
	3.40	106	0.041815		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	60	0.023669	±2.5	Pass
	3.70	42	0.016568		
	3.40	83	0.032742		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.037870	±2.5	Pass
	3.70	95	0.037475		
	3.40	52	0.020513		

LTE Band 17(QPSK):

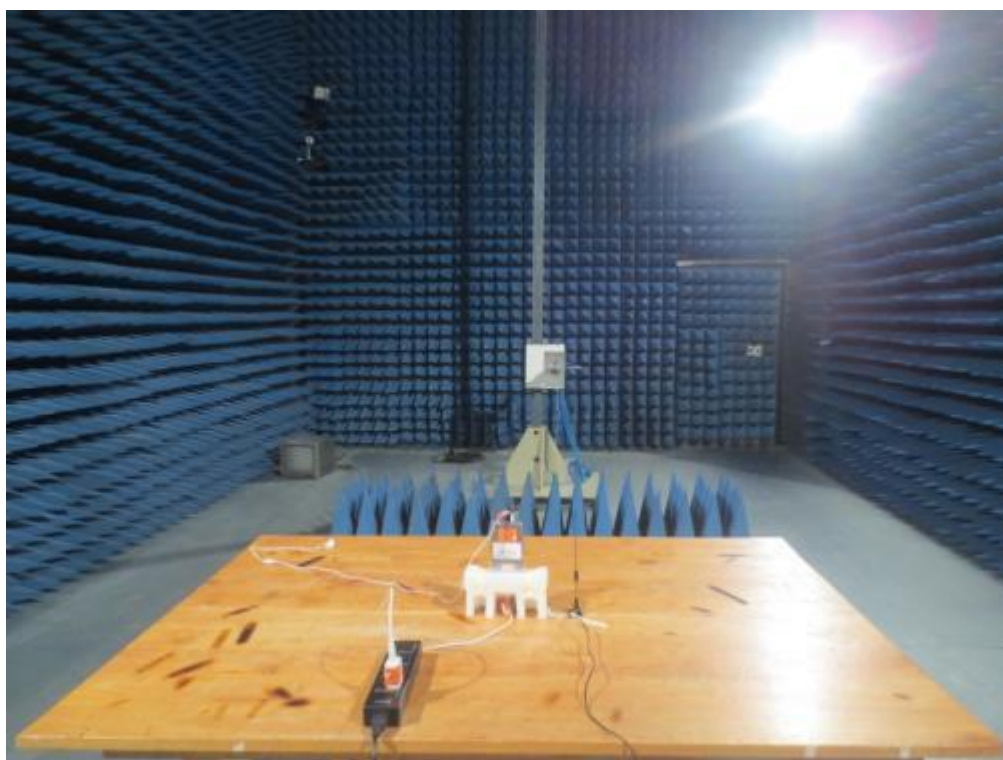
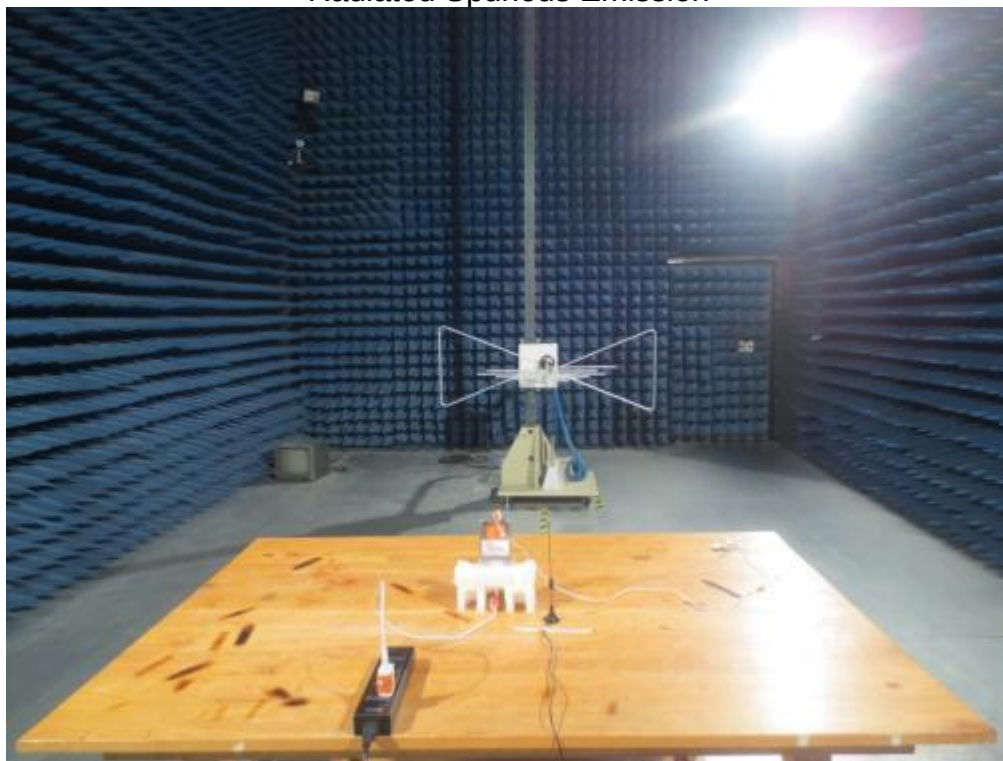
Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	152	0.214085	±2.5	Pass
	3.70	82	0.115493		
	3.40	48	0.067606		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.085915	±2.5	Pass
	3.70	87	0.122535		
	3.40	81	0.114085		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.133803	±2.5	Pass
	3.70	82	0.115493		
	3.40	53	0.074648		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	79	0.111268	±2.5	Pass
	3.70	96	0.135211		
	3.40	103	0.145070		

7 Test Setup Photo

Radiated Spurious Emission



8 EUT Constructional Details

Reference to the test report No. CCIS15040026801.

-----End of report-----