

CTC20192260E02 Appendix for WCDMA

BAND2

FCC ID: 2AC88-GLMU19A02

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AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

WCDMA:

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	22.77	33	PASS
Band II	9400	22.72	33	PASS
Band II	9538	22.63	33	PASS

HSDPA:

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	21.77	33	PASS
Band II	9262	HSDPA_Sub2	21.30	33	PASS
Band II	9262	HSDPA_Sub3	21.33	33	PASS
Band II	9262	HSDPA_Sub4	21.27	33	PASS
Band II	9400	HSDPA_Sub1	21.79	33	PASS
Band II	9400	HSDPA_Sub2	21.30	33	PASS
Band II	9400	HSDPA_Sub3	21.33	33	PASS
Band II	9400	HSDPA_Sub4	21.34	33	PASS
Band II	9538	HSDPA_Sub1	21.66	33	PASS
Band II	9538	HSDPA_Sub2	21.17	33	PASS
Band II	9538	HSDPA_Sub3	19.17	33	PASS
Band II	9538	HSDPA_Sub4	19.34	33	PASS

HSUPA:

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	21.71	33	PASS
Band II	9262	HSUPA_Sub2	20.54	33	PASS
Band II	9262	HSUPA_Sub3	20.64	33	PASS
Band II	9262	HSUPA_Sub4	21.39	33	PASS
Band II	9262	HSUPA_Sub5	21.89	33	PASS
Band II	9400	HSUPA_Sub1	21.87	33	PASS
Band II	9400	HSUPA_Sub2	20.73	33	PASS
Band II	9400	HSUPA_Sub3	20.83	33	PASS
Band II	9400	HSUPA_Sub4	21.37	33	PASS
Band II	9400	HSUPA_Sub5	21.80	33	PASS

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Band II	9538	HSUPA_Sub1	21.79	33	PASS
Band II	9538	HSUPA_Sub2	20.41	33	PASS
Band II	9538	HSUPA_Sub3	20.01	33	PASS
Band II	9538	HSUPA_Sub4	21.25	33	PASS
Band II	9538	HSUPA_Sub5	21.29	33	PASS

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AppendixB:Peak-to-Average Ratio

Test Result

WCDMA:

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	3.13	13	PASS
Band II	9538	3.13	13	PASS

HSUPA:

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	HSUPA_Sub1	4.32	13	PASS
Band II	9262	HSUPA_Sub2	4.93	13	PASS
Band II	9262	HSUPA_Sub3	5.33	13	PASS
Band II	9262	HSUPA_Sub4	5.36	13	PASS
Band II	9262	HSUPA_Sub5	3.42	13	PASS
Band II	9400	HSUPA_Sub1	4.32	13	PASS
Band II	9400	HSUPA_Sub2	4.96	13	PASS
Band II	9400	HSUPA_Sub3	5.22	13	PASS
Band II	9400	HSUPA_Sub4	4.78	13	PASS
Band II	9400	HSUPA_Sub5	3.48	13	PASS
Band II	9538	HSUPA_Sub1	4.67	13	PASS
Band II	9538	HSUPA_Sub2	5.25	13	PASS
Band II	9538	HSUPA_Sub3	5.39	13	PASS
Band II	9538	HSUPA_Sub4	4.90	13	PASS
Band II	9538	HSUPA_Sub5	3.62	13	PASS

HSDPA:

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	HSDPA_Sub1	3.45	13	PASS
Band II	9262	HSDPA_Sub2	5.57	13	PASS
Band II	9262	HSDPA_Sub3	3.25	13	PASS
Band II	9262	HSDPA_Sub4	5.62	13	PASS
Band II	9400	HSDPA_Sub1	3.42	13	PASS

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Band II	9400	HSDPA_Sub2	5.16	13	PASS
Band II	9400	HSDPA_Sub3	6.23	13	PASS
Band II	9400	HSDPA_Sub4	7.51	13	PASS
Band II	9538	HSDPA_Sub1	3.54	13	PASS
Band II	9538	HSDPA_Sub2	3.48	13	PASS
Band II	9538	HSDPA_Sub3	6.29	13	PASS
Band II	9538	HSDPA_Sub4	9.97	13	PASS

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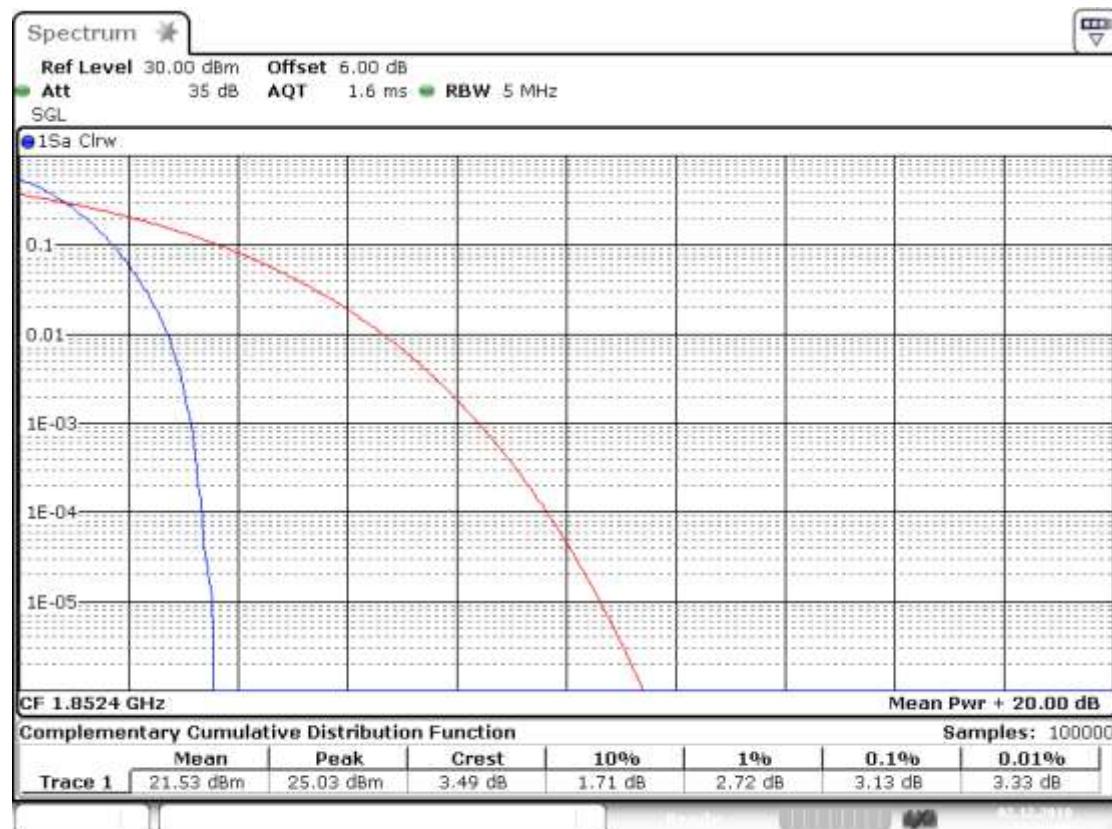


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Test Graphs

WCDMA:

Test Case: (WCDMA)Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:CCDF:3.13
Result: PASS	Voltage: VN	Temperature: TN



Date: 2.DEC.2019 10:21:04

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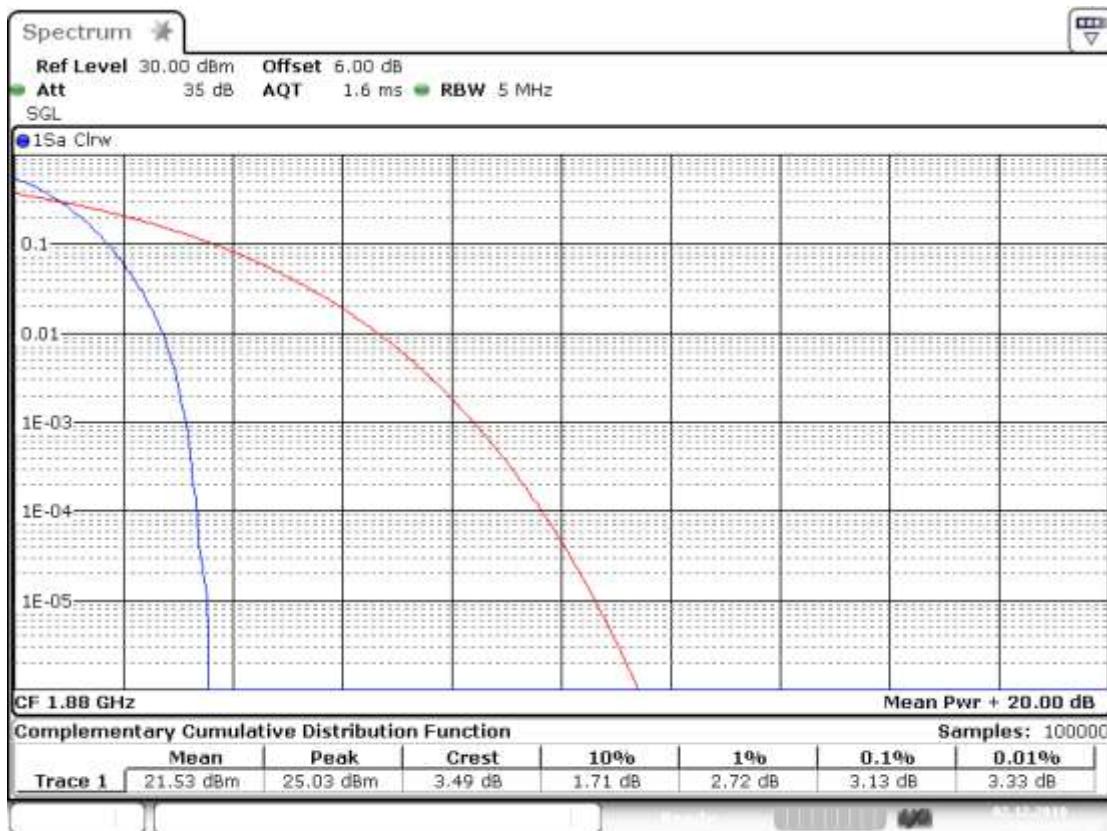
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Test Case: (WCDMA)Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:CCDF:3.13
Result: PASS	Voltage: VN	Temperature: TN



Date: 2.DEC.2019 10:21:14

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Test Case: (WCDMA)Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:CCDF:3.13
Result: PASS	Voltage: VN	Temperature: TN



Date: 2.DEC.2019 10:21:23

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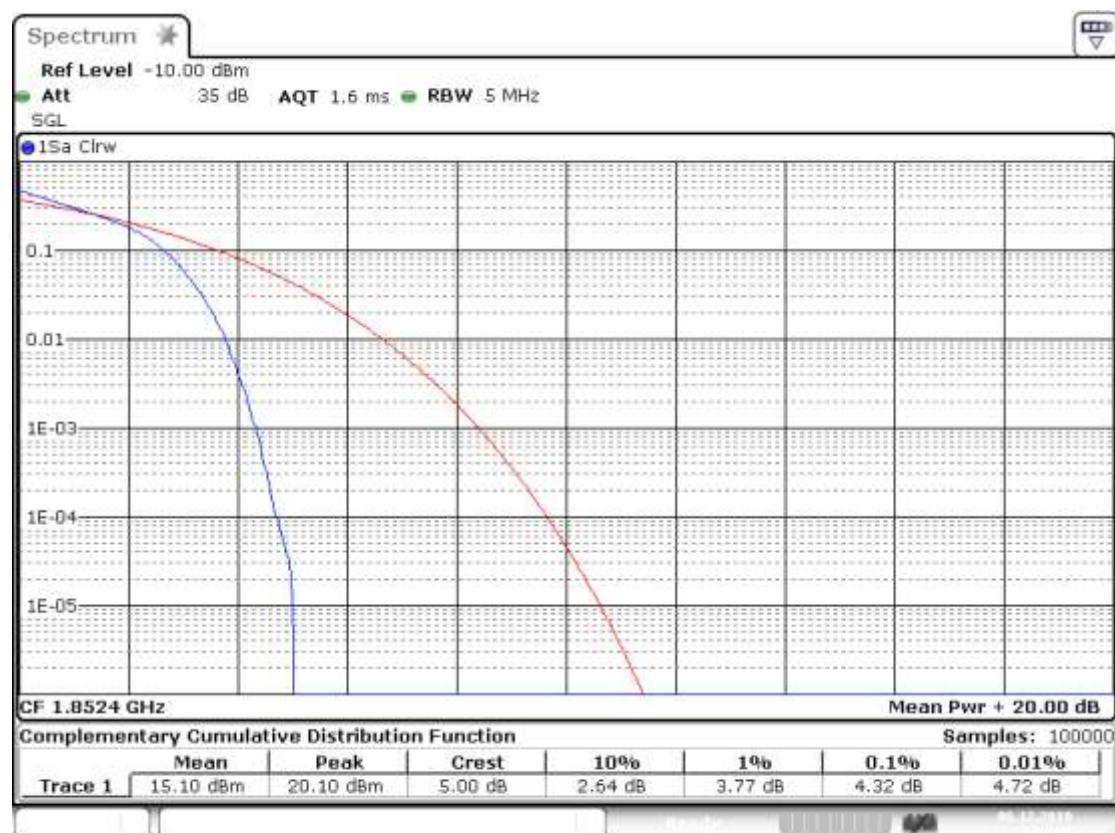
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HSUPA:

Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:SubTest1: CCDF:4.32
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:27:29

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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:SubTest2: CCDF:4.93
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:28:23

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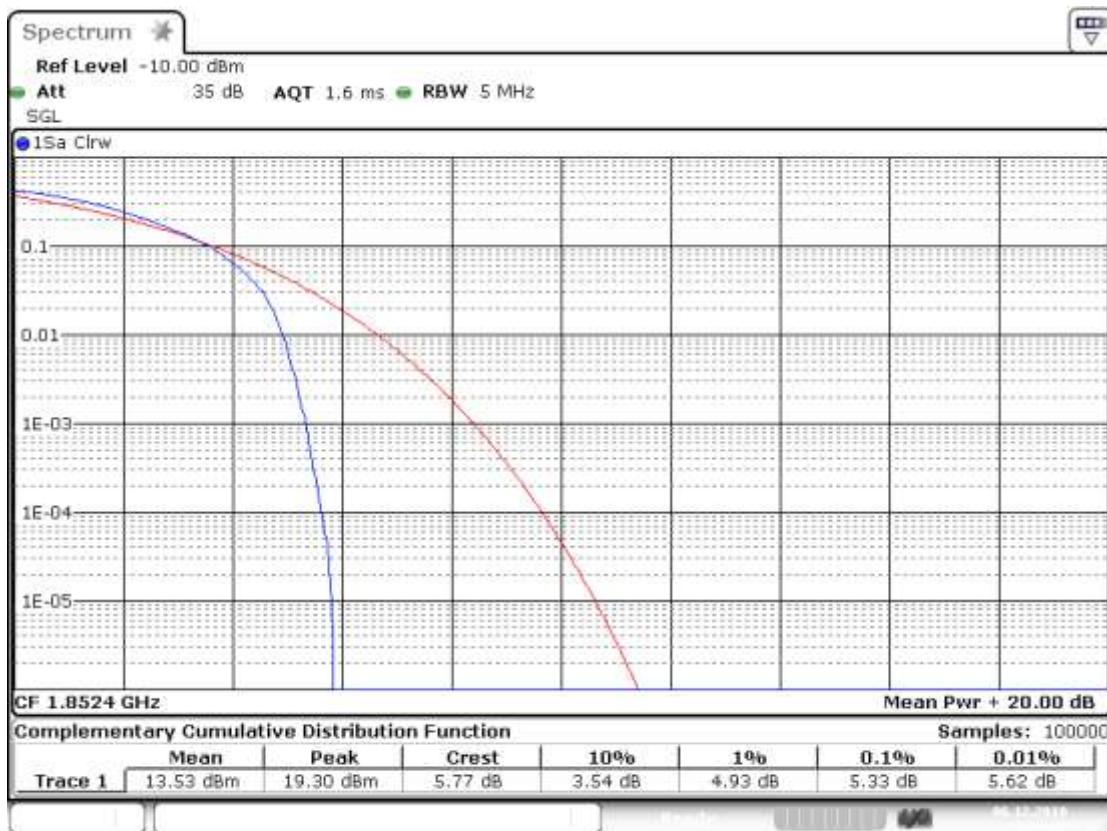
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:SubTest3: CCDF:5.33
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:29:18

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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:SubTest4: CCDF:5.36
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:30:53

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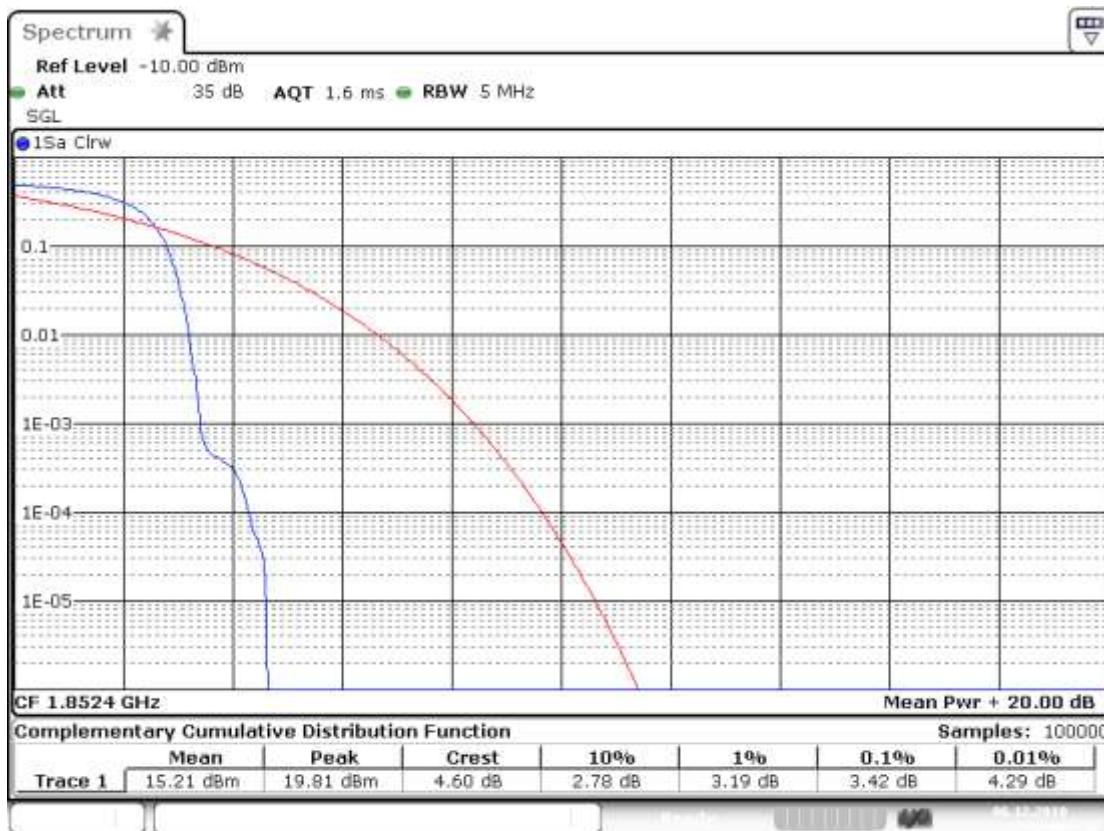
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:SubTest5: CCDF:3.42
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:31:15

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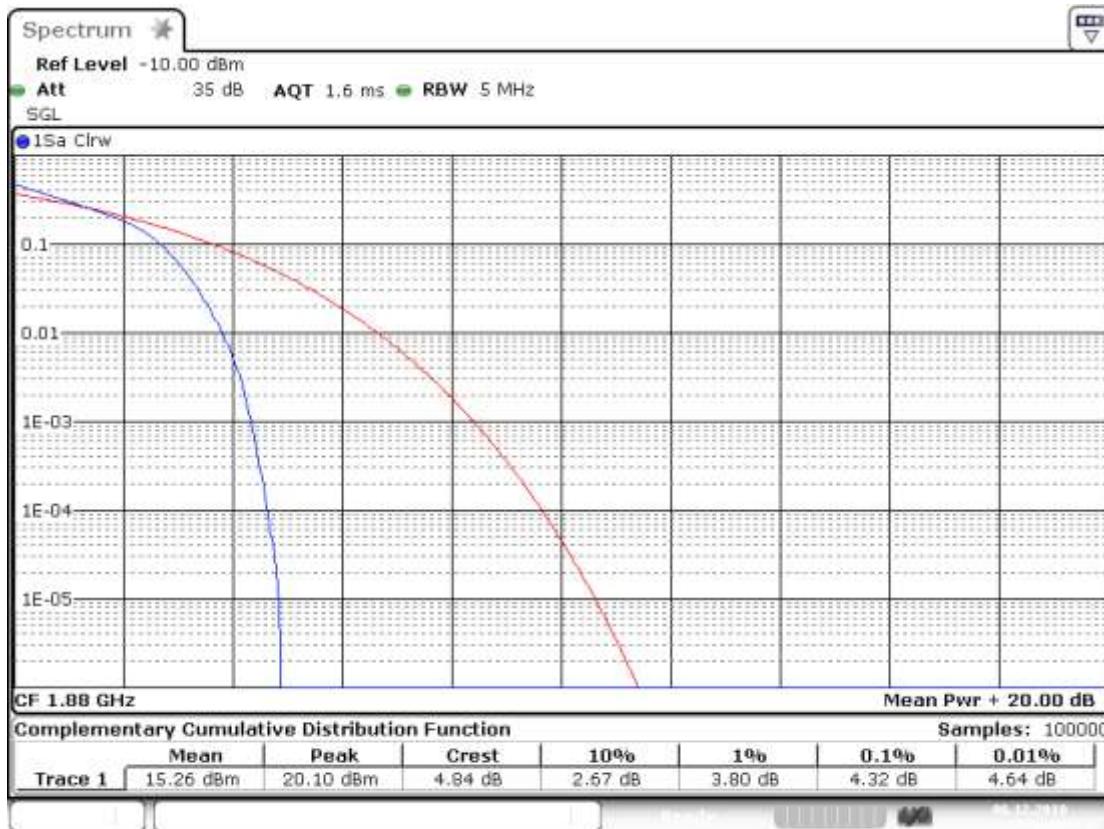
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:SubTest1: CCDF:4.32
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:32:12

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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:SubTest2: CCDF:4.96
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:33:05

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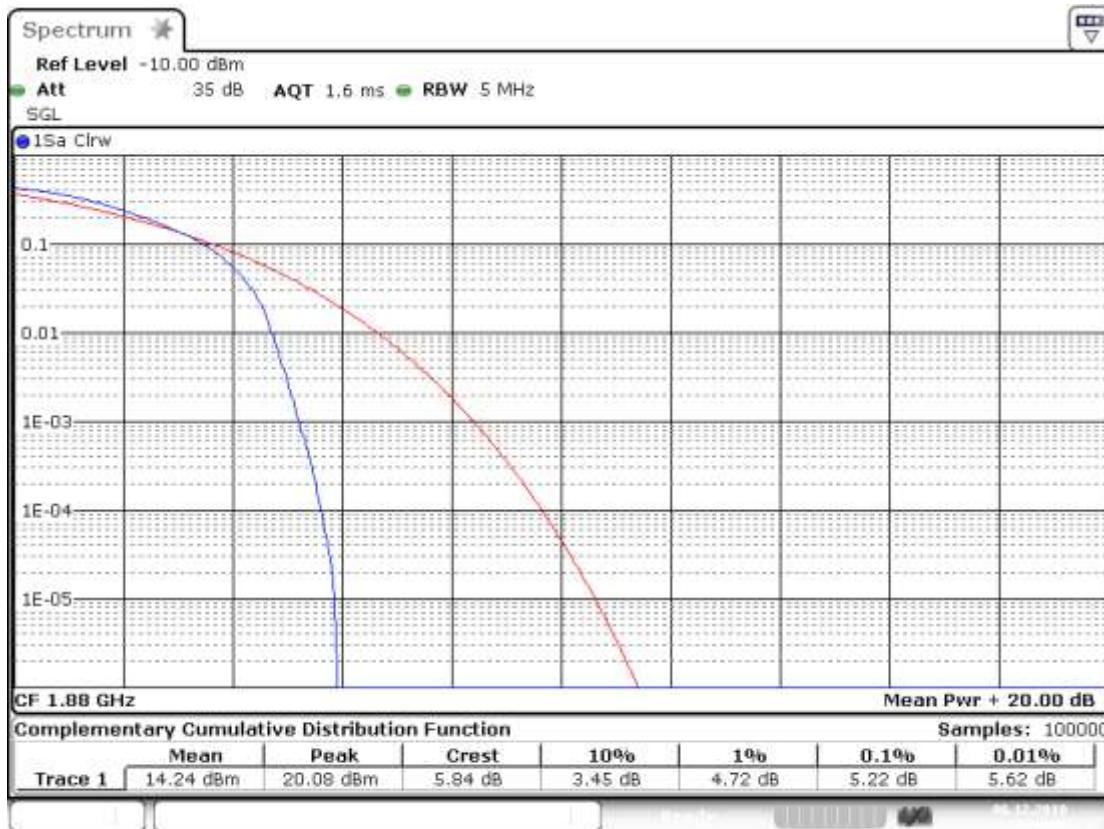
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:SubTest3: CCDF:5.22
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:34:01

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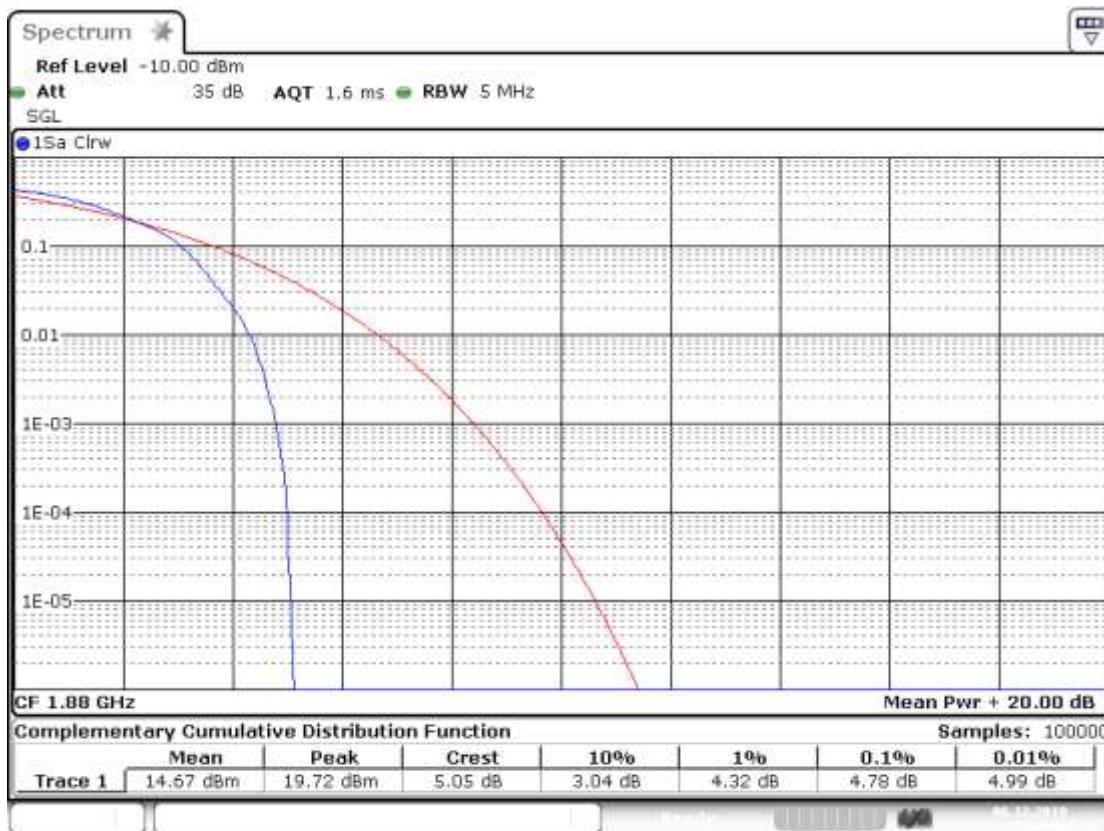
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:SubTest4: CCDF:4.78
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:35:36

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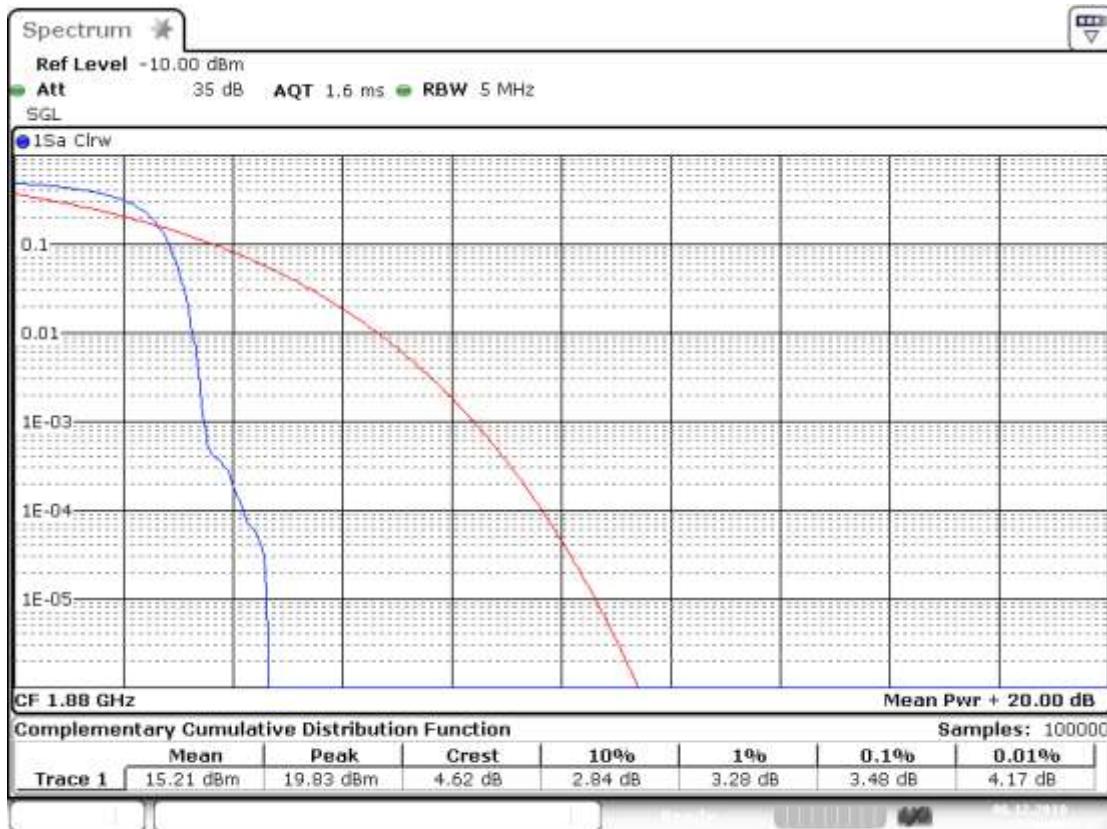
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:SubTest5: CCDF:3.48
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:35:58

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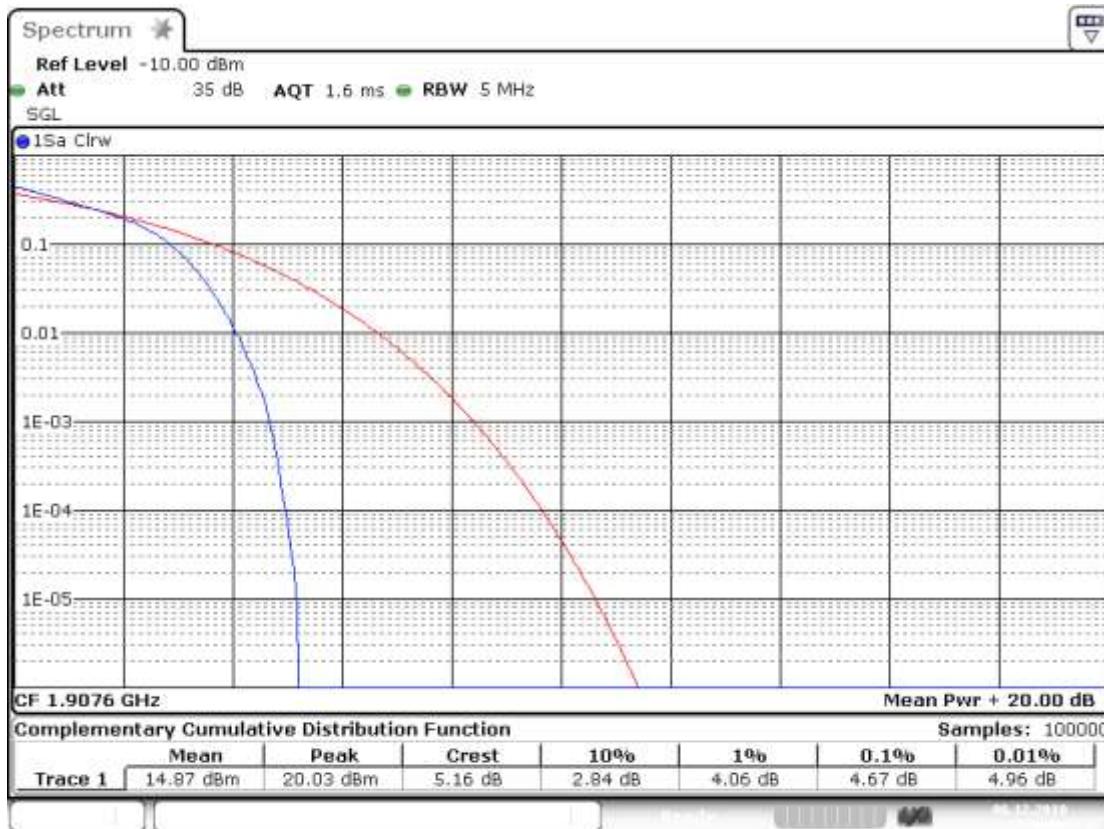
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value: SubTest1: CCDF:4.67
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:36:55

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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:SubTest2: CCDF:5.25
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:37:44

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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:SubTest3: CCDF:5.39
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:38:39

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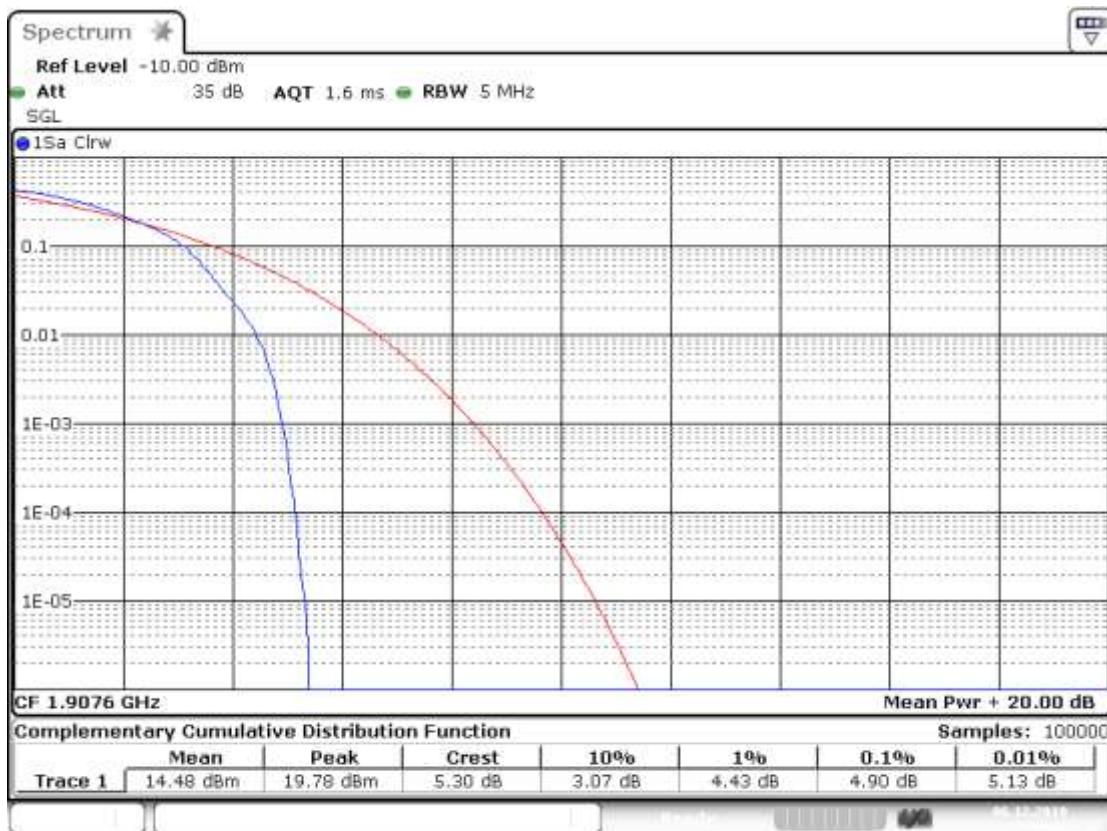
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value: SubTest4: CCDF:4.90
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:40:11

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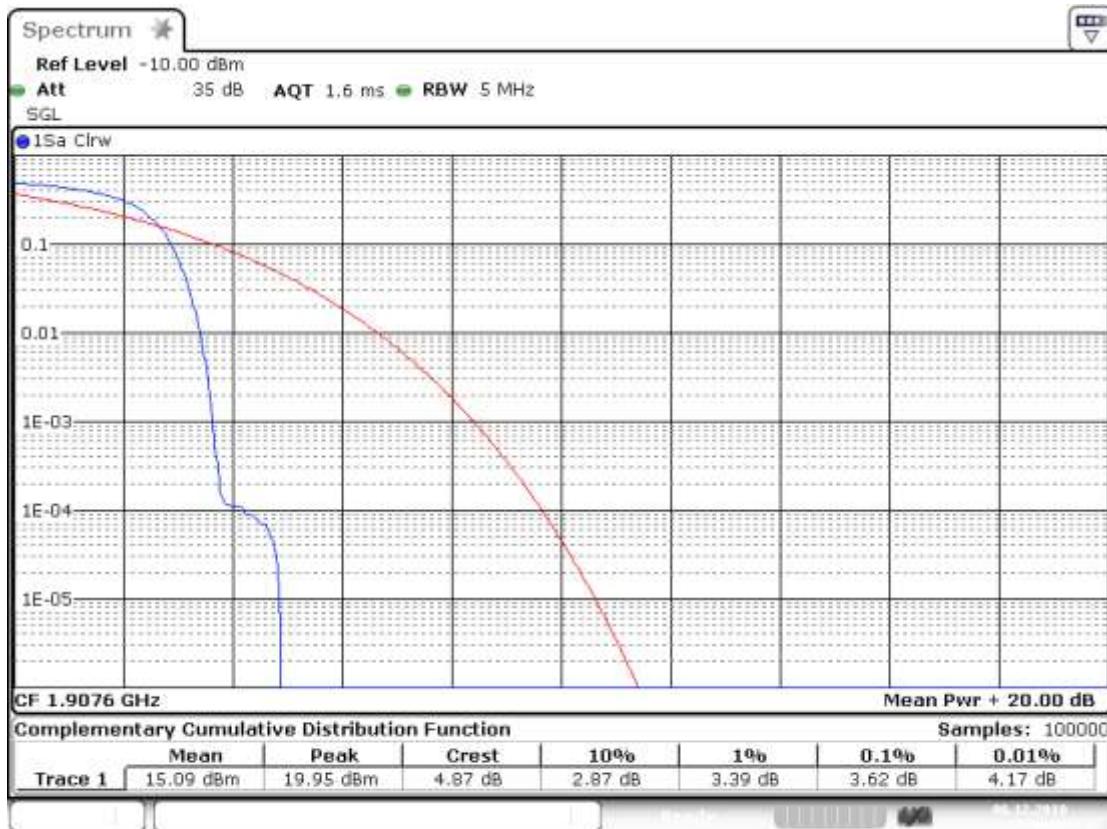
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Test Case: HSUPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:SubTest5: CCDF:3.62
Result: PASS	Voltage: VN	Temperature: TN



Date: 6.DEC.2019 17:40:33

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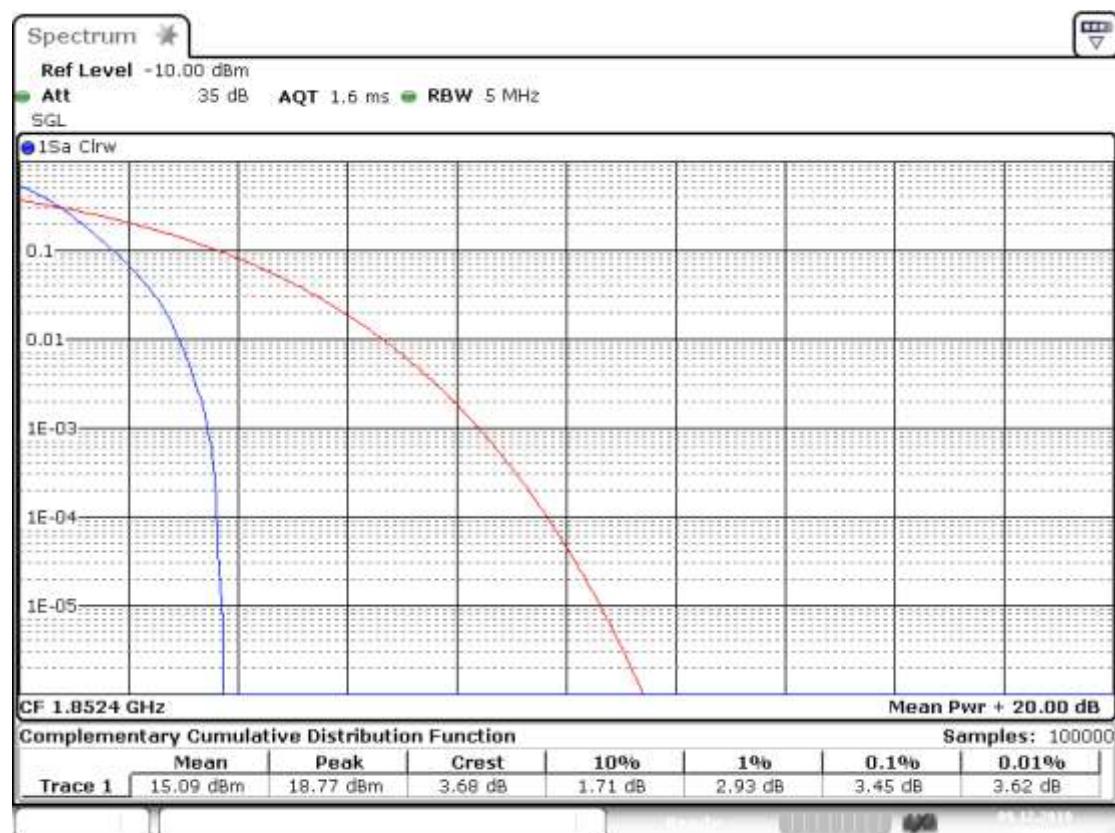
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HSDPA:

Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:Bc/Bd:2/15 CCDF:3.45
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:47:47

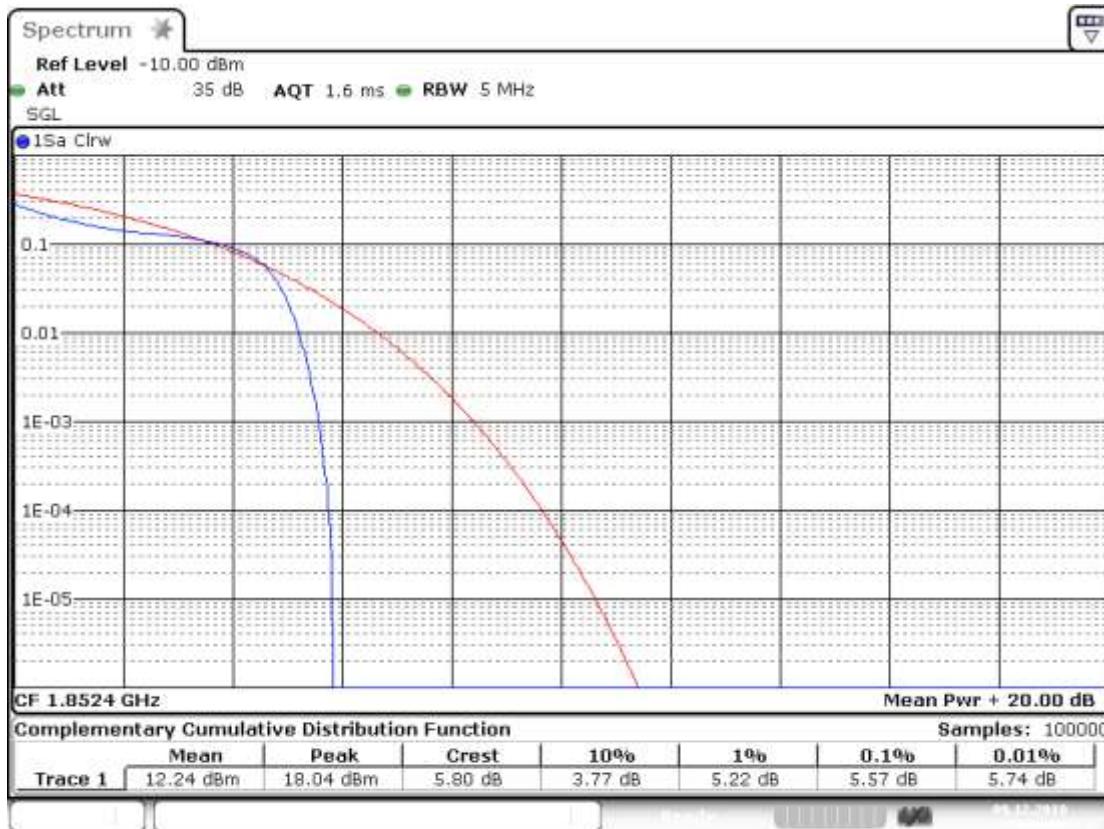
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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:Bc/Bd:12/15 CCDF:5.57
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:48:03

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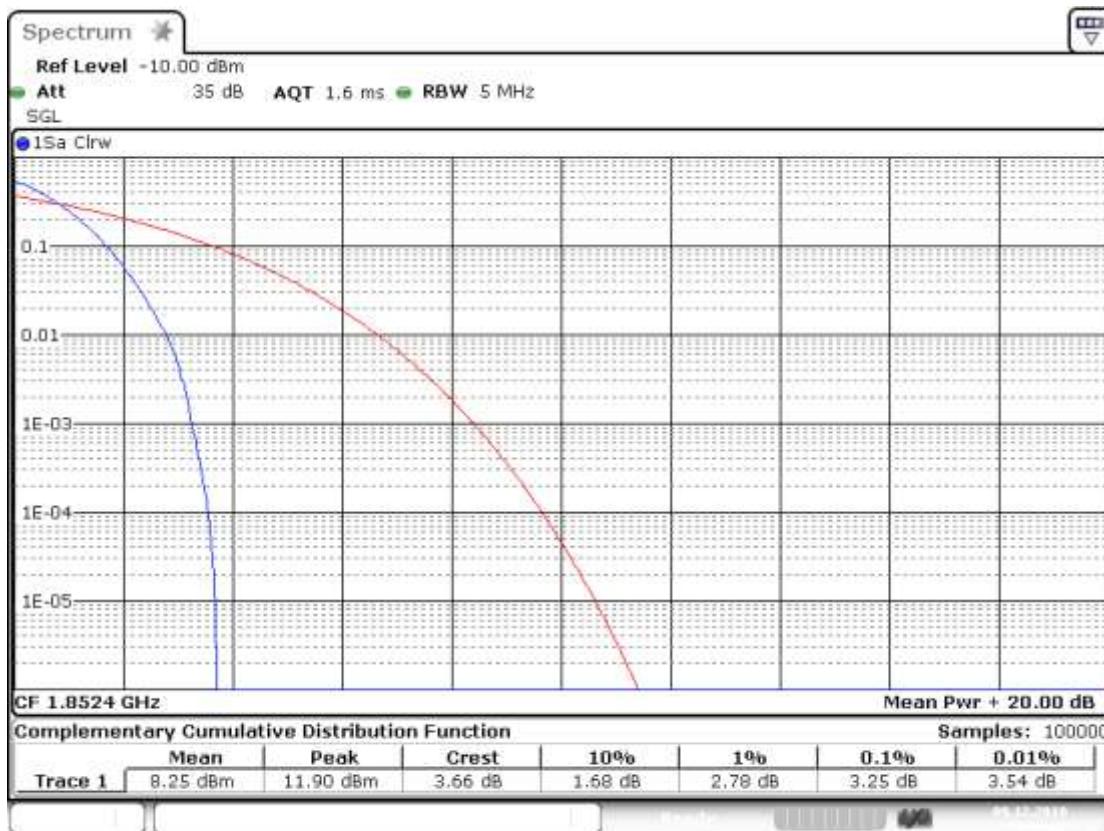
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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:Bc/Bd:15/8 CCDF:3.25
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:48:20

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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9262	Value:Bc/Bd:15/4 CCDF:5.62
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:48:36

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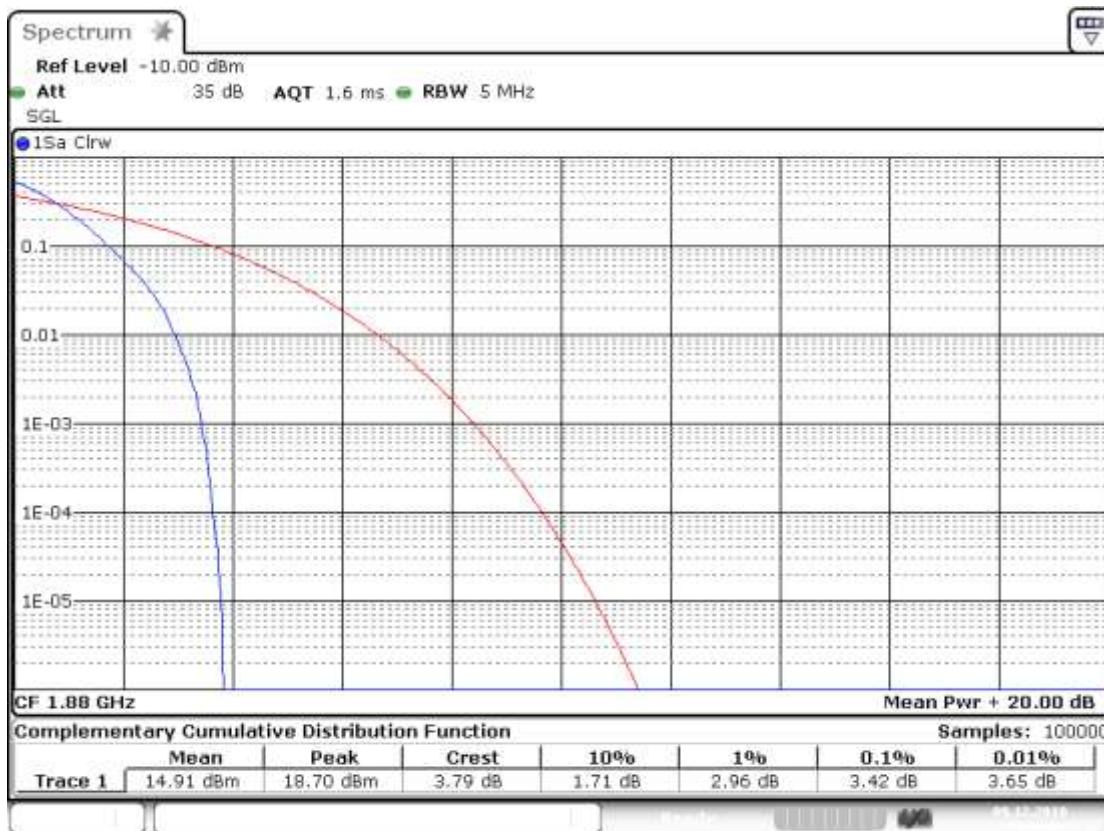
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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:Bc/Bd:2/15 CCDF:3.42
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:48:54

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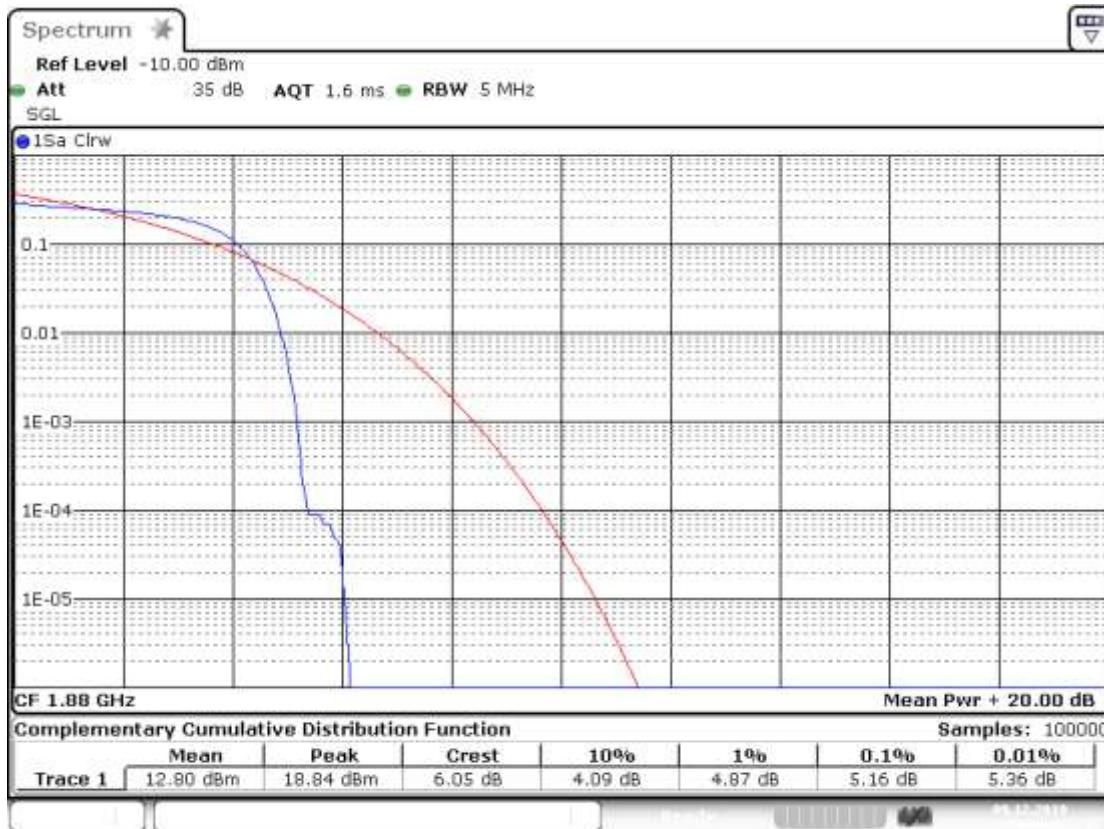
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:Bc/Bd:12/15 CCDF:5.16
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:49:10

CTC Laboratories, Inc.

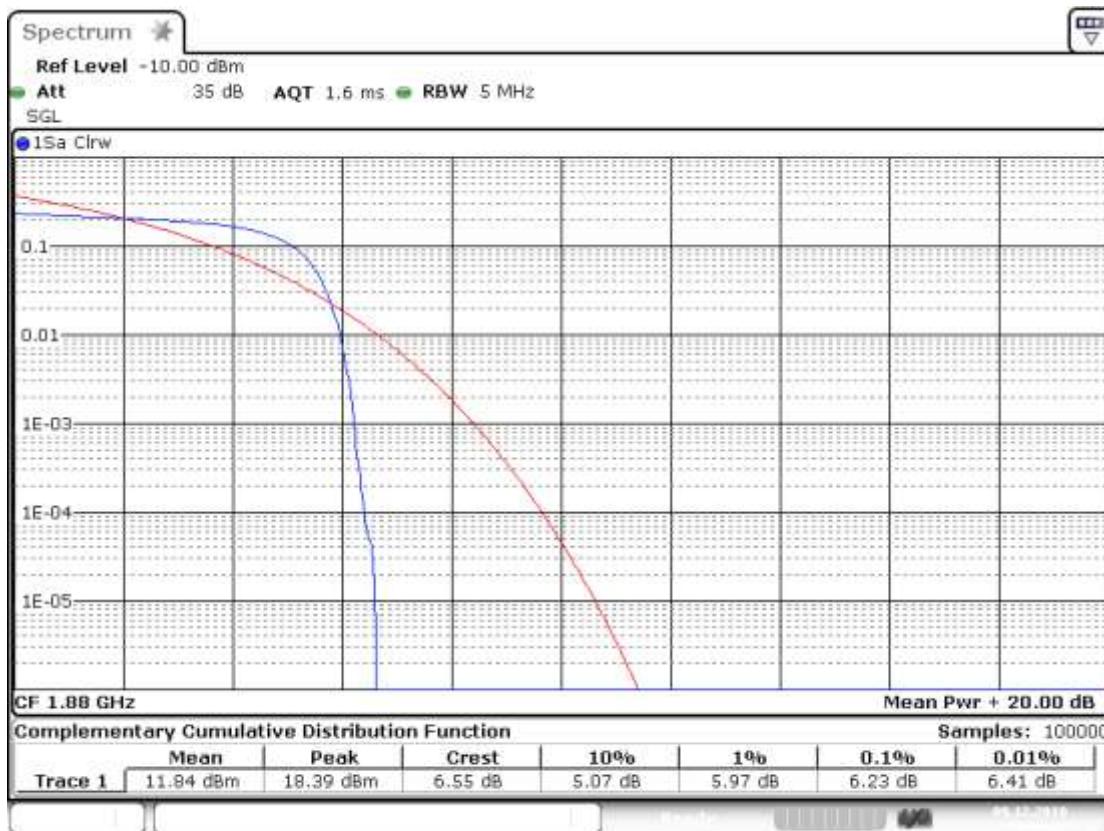
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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:Bc/Bd:15/8 CCDF:6.23
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:49:27

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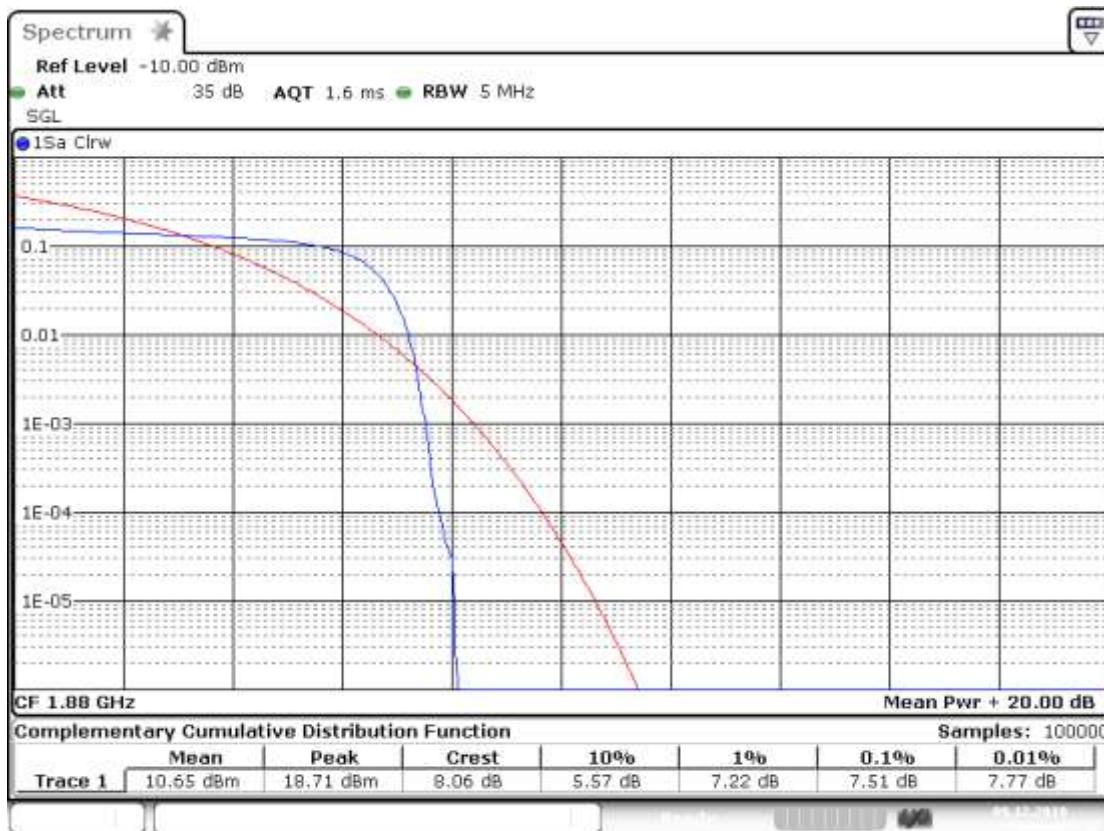
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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9400	Value:Bc/Bd:15/4 CCDF:7.51
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:49:44

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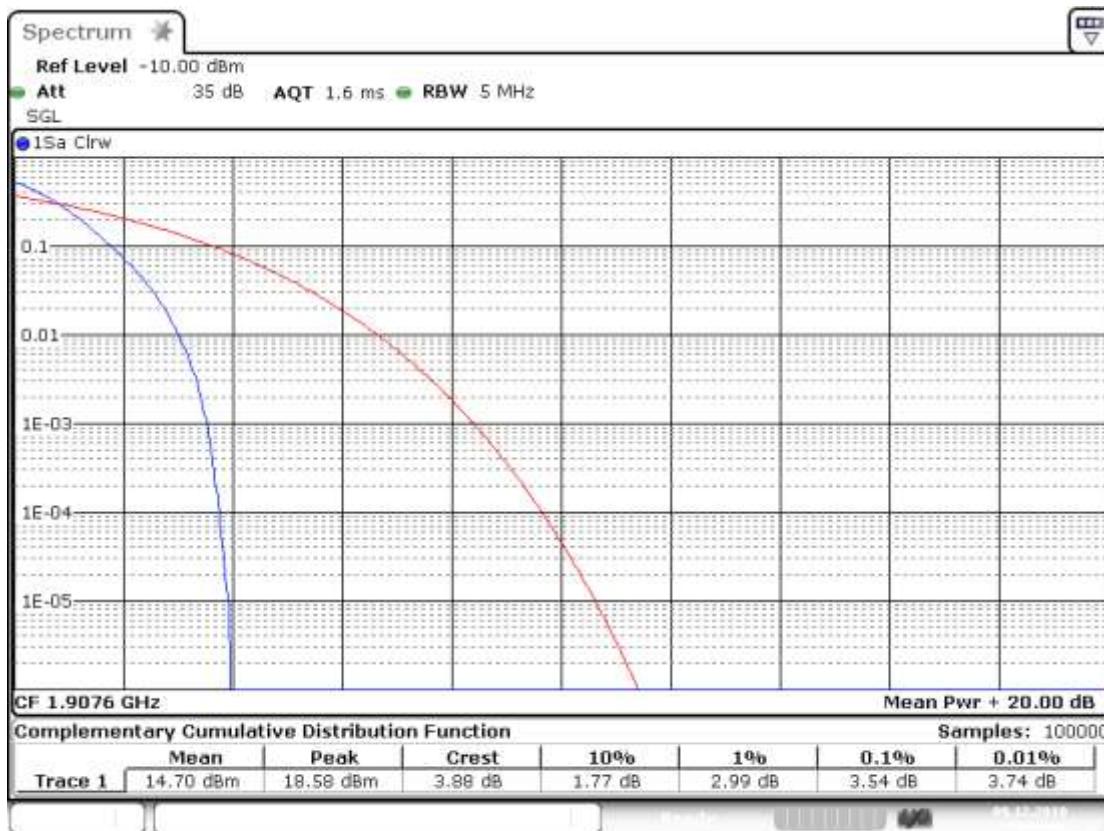
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:Bc/Bd:2/15 CCDF:3.54
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:50:01

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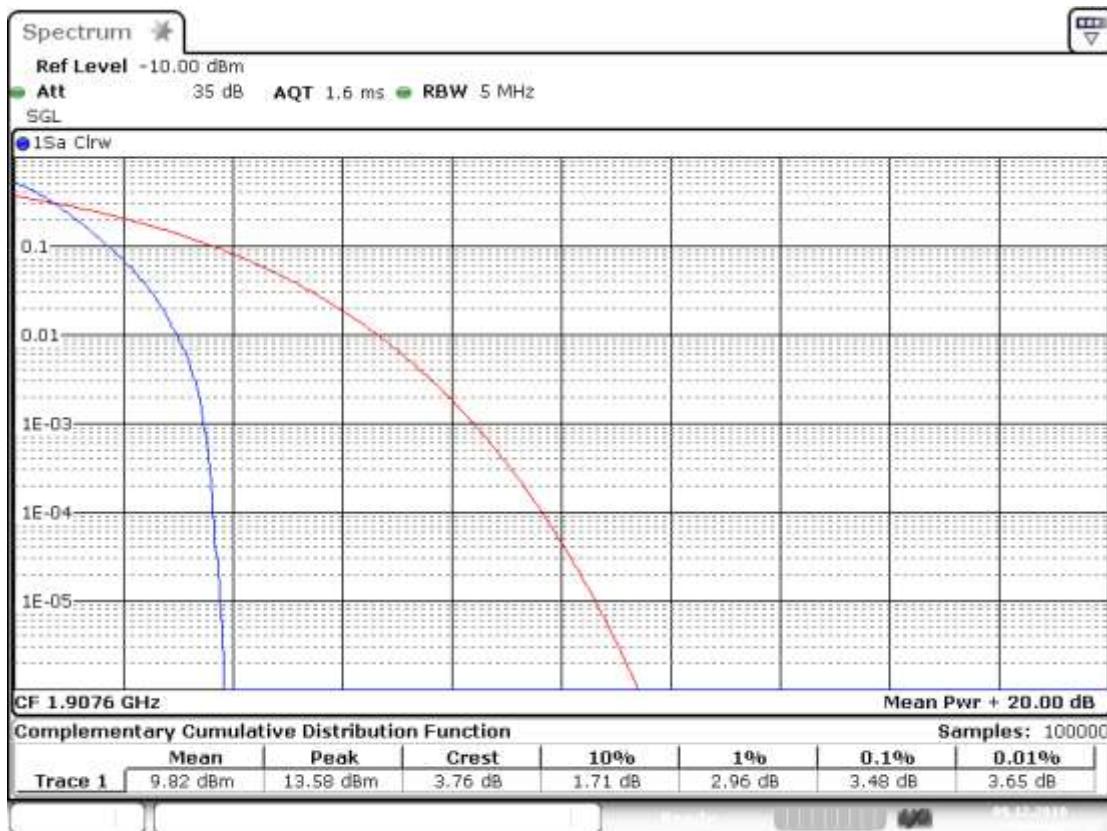
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:Bc/Bd:12/15 CCDF:3.48
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:50:18

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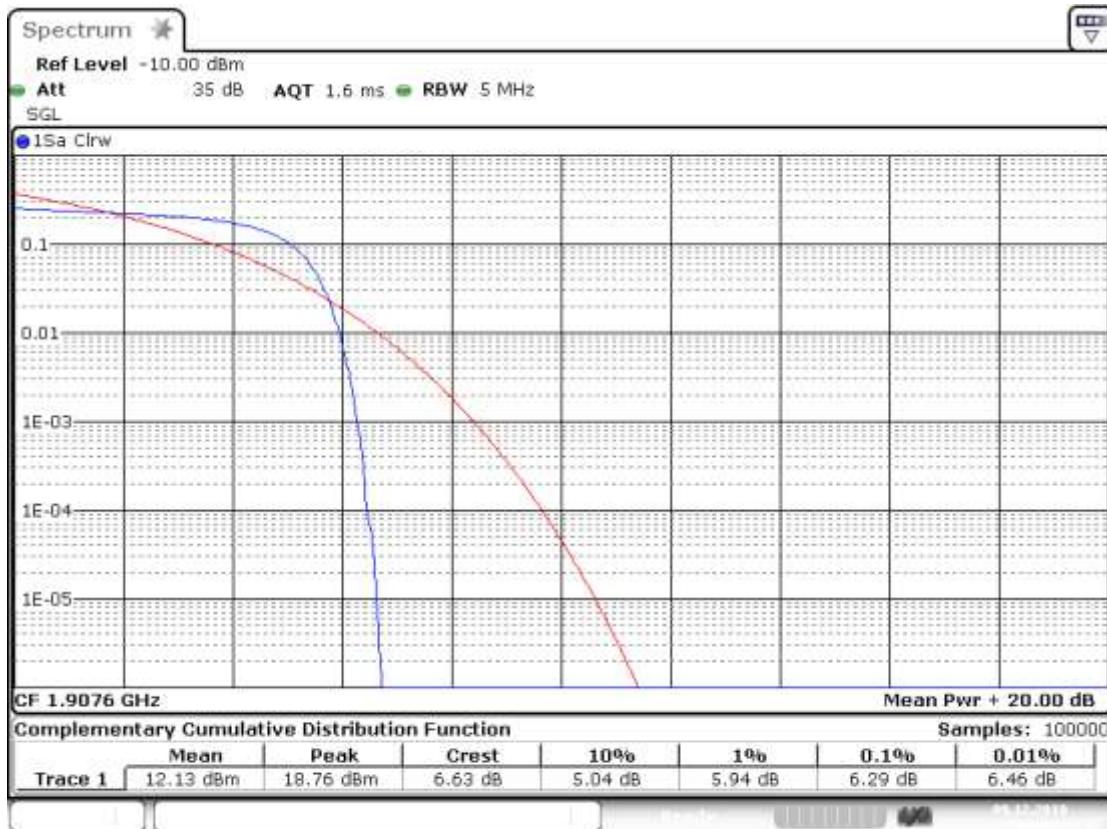
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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:Bc/Bd:15/8 CCDF:6.29
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:50:34

CTC Laboratories, Inc.

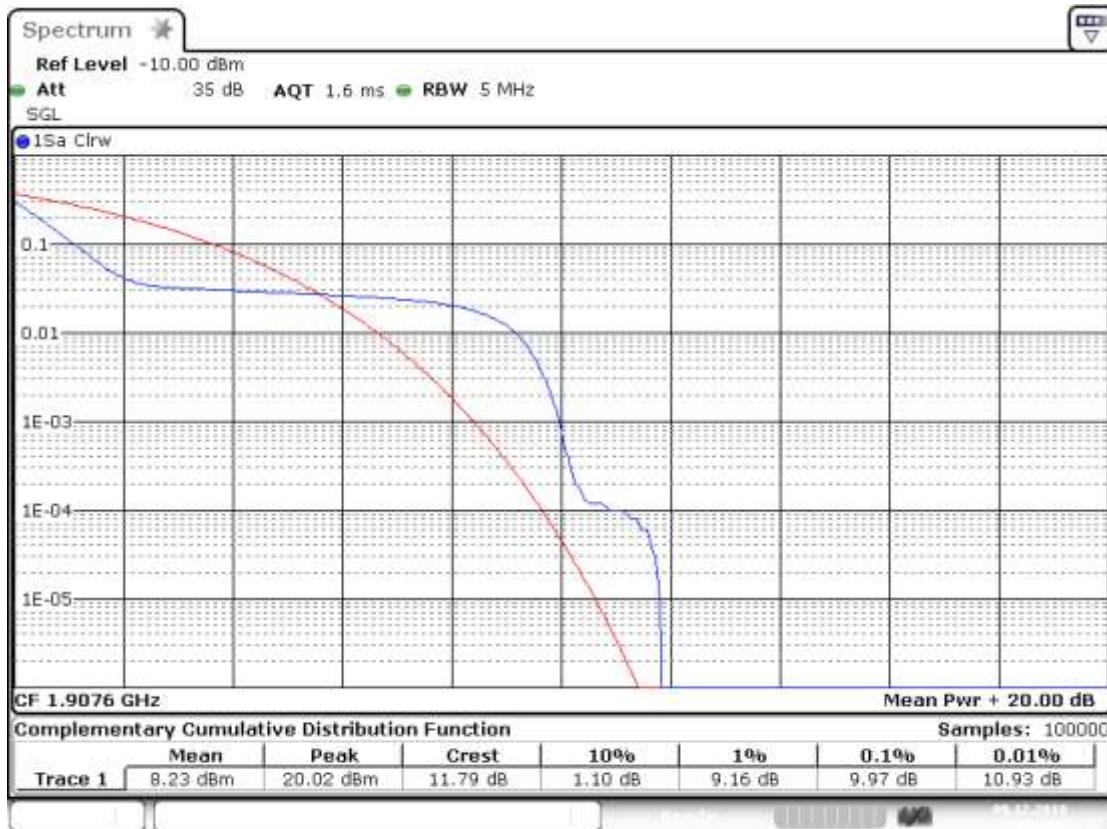
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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Test Case: HSDPA Peak-to-Average Ratio		
Band: II	Channel: 9538	Value:Bc/Bd:15/4 CCDF:9.97
Result: PASS	Voltage: VN	Temperature: TN



Date: 9.DEC.2019 09:50:51

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AppendixC:26dB Bandwidth and Occupied Bandwidth

Test Result

WCDMA:

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4110.0	4725	---	PASS
Band II	9400	4124.5	4739	---	PASS
Band II	9538	4124.5	4710	---	PASS

HSDPA:

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	HSDPA_Sub1	4124.5	4725	---	PASS
Band II	9262	HSDPA_Sub2	4110.0	4754	---	PASS
Band II	9262	HSDPA_Sub3	4124.5	4754	---	PASS
Band II	9262	HSDPA_Sub4	4124.5	4754	---	PASS
Band II	9400	HSDPA_Sub1	4124.5	4725	---	PASS
Band II	9400	HSDPA_Sub2	4138.9	4739	---	PASS
Band II	9400	HSDPA_Sub3	4124.5	4768	---	PASS
Band II	9400	HSDPA_Sub4	4124.5	4739	---	PASS
Band II	9538	HSDPA_Sub1	4124.5	4710	---	PASS
Band II	9538	HSDPA_Sub2	4138.9	4725	---	PASS
Band II	9538	HSDPA_Sub3	4138.9	4754	---	PASS
Band II	9538	HSDPA_Sub4	4124.5	4783	---	PASS

HSUPA:

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	HSUPA_Sub1	4138.9	4725	---	PASS
Band II	9262	HSUPA_Sub2	4138.9	4754	---	PASS
Band II	9262	HSUPA_Sub3	4138.9	4739	---	PASS
Band II	9262	HSUPA_Sub4	4124.5	4754	---	PASS
Band II	9262	HSUPA_Sub5	4110.0	4754	---	PASS
Band II	9400	HSUPA_Sub1	4124.5	4739	---	PASS
Band II	9400	HSUPA_Sub2	4124.5	4725	---	PASS
Band II	9400	HSUPA_Sub3	4124.5	4739	---	PASS
Band II	9400	HSUPA_Sub4	4124.5	4710	---	PASS
Band II	9400	HSUPA_Sub5	4124.5	4739	---	PASS
Band II	9538	HSUPA_Sub1	4124.5	4725	---	PASS

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Band II	9538	HSUPA_Sub2	4124.5	4725	---	PASS
Band II	9538	HSUPA_Sub3	4124.5	4754	---	PASS
Band II	9538	HSUPA_Sub4	4124.5	4725	---	PASS
Band II	9538	HSUPA_Sub5	4124.5	4739	---	PASS

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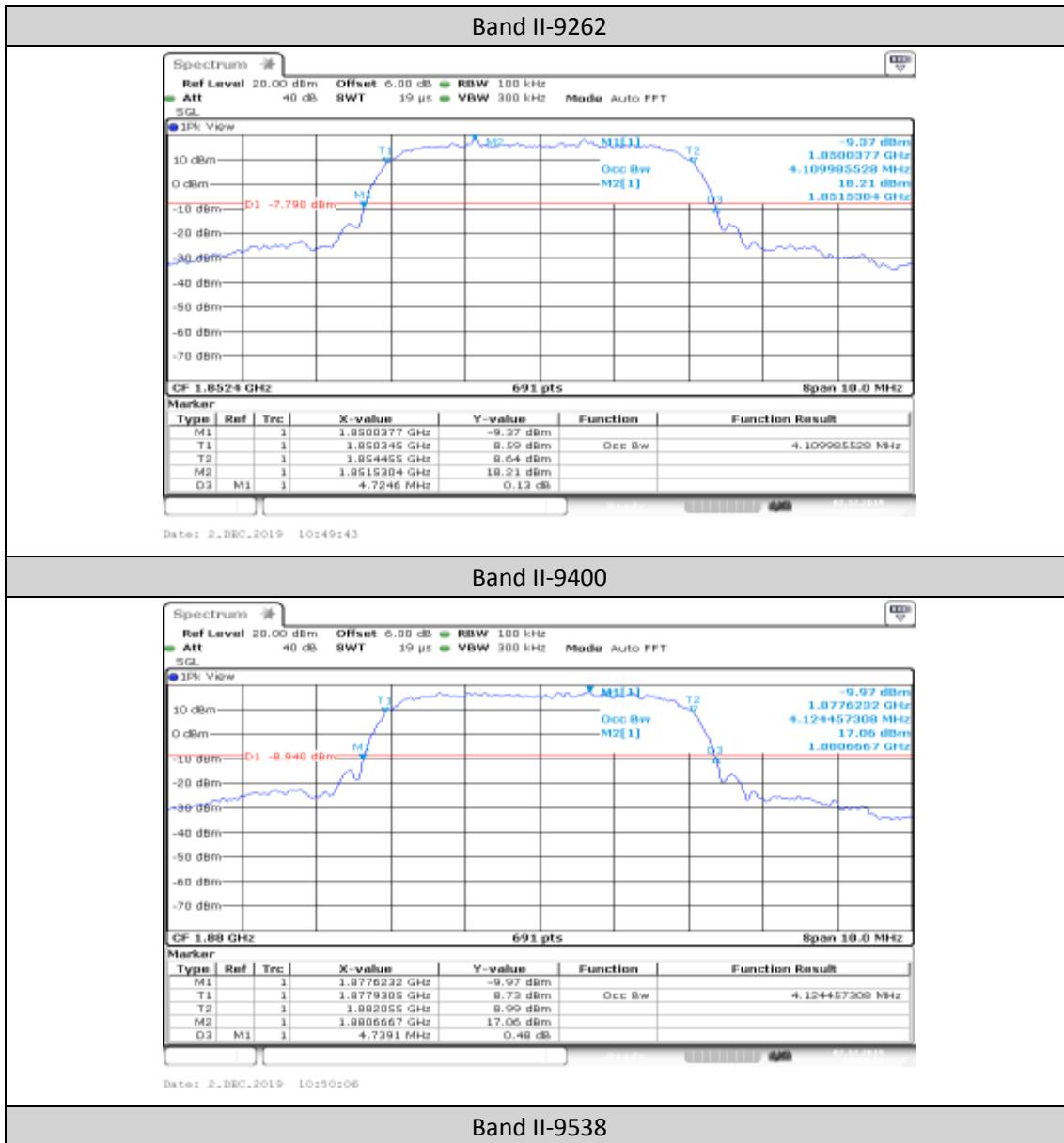
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Test Graphs

WCDMA:



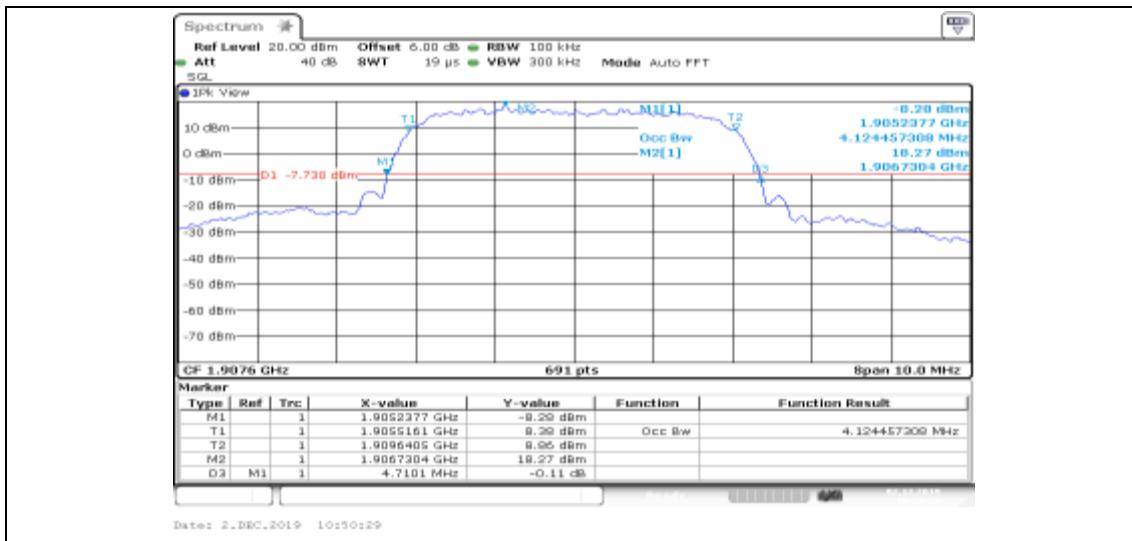
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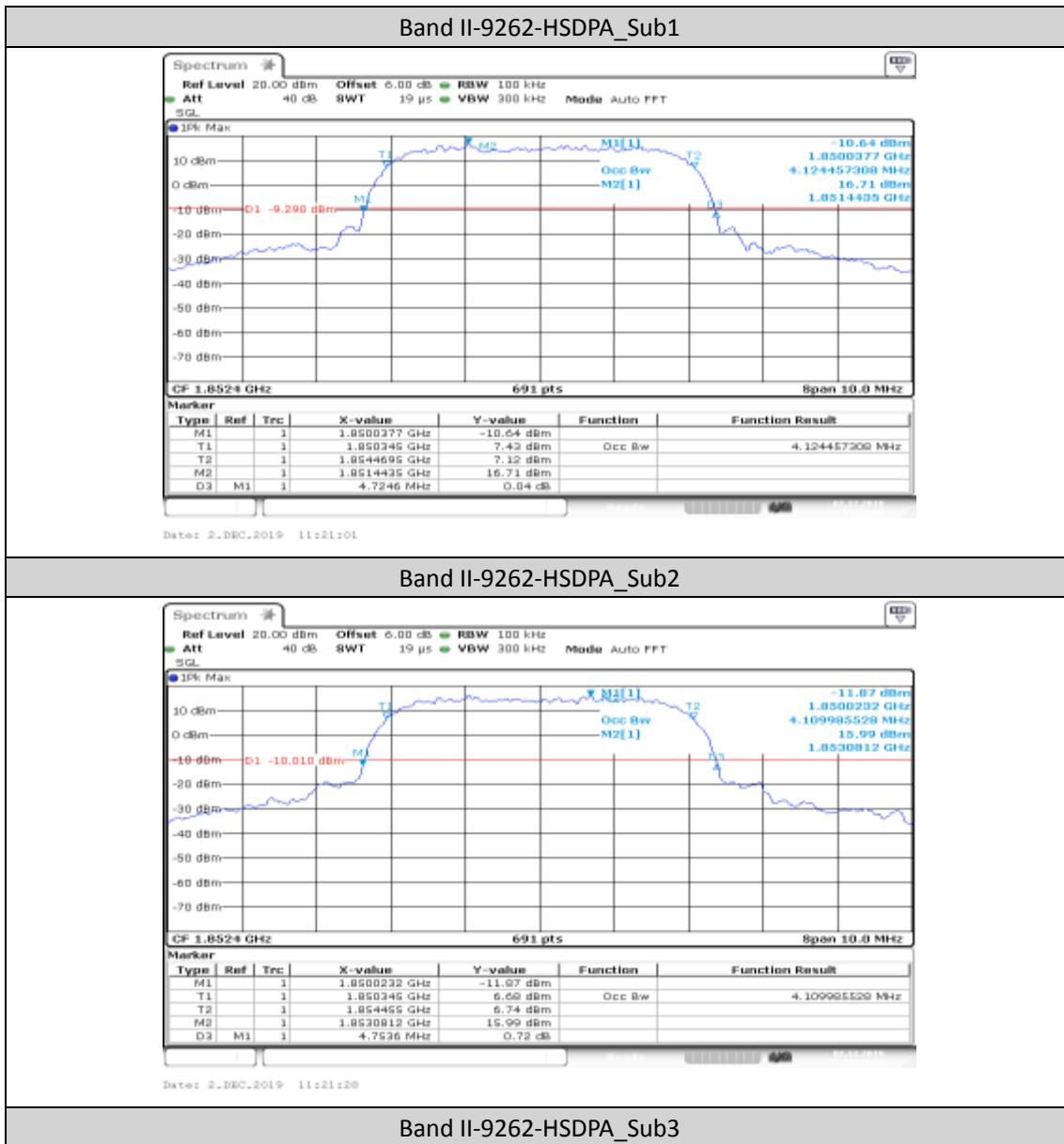


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HSDPA:


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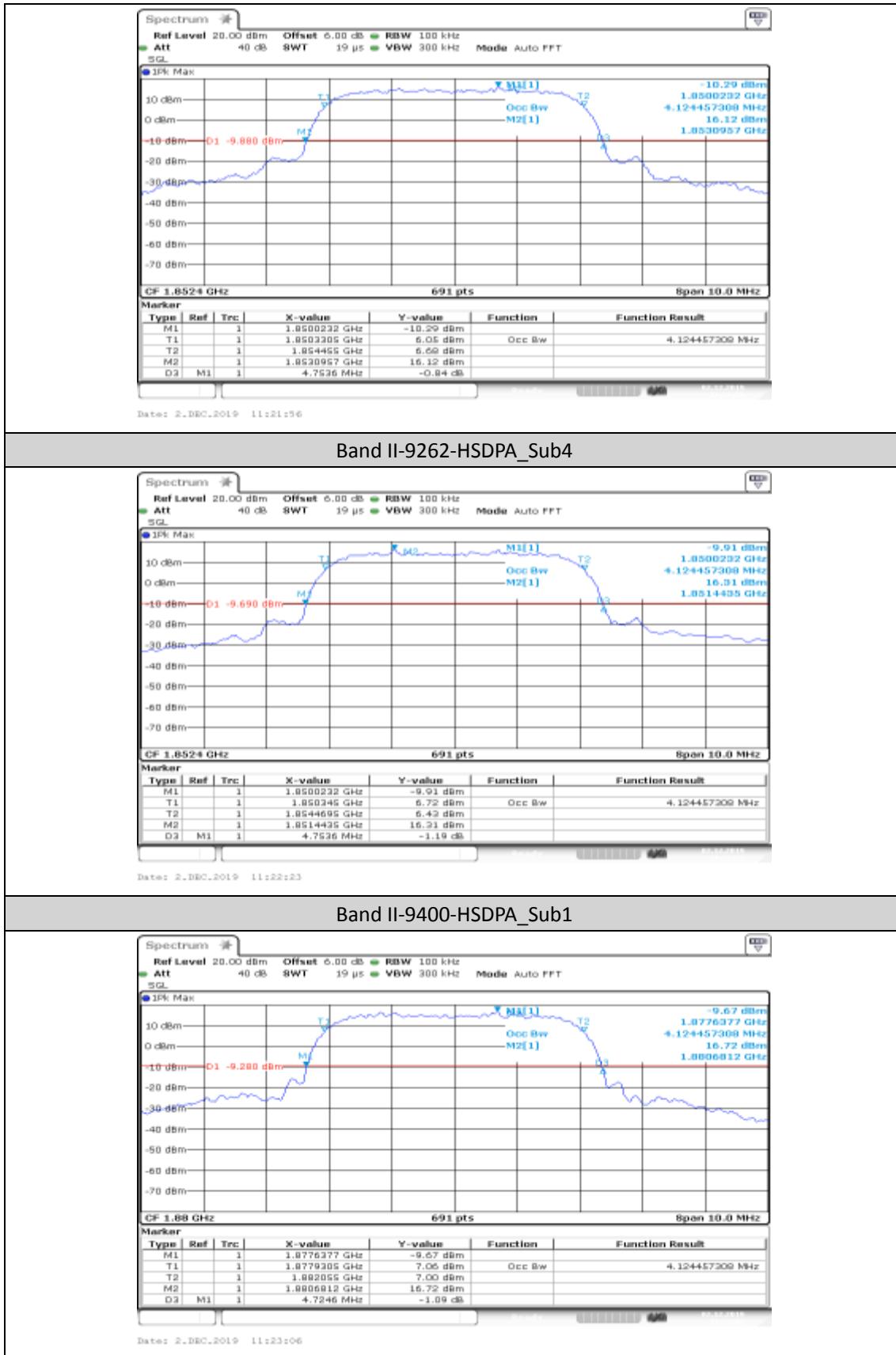
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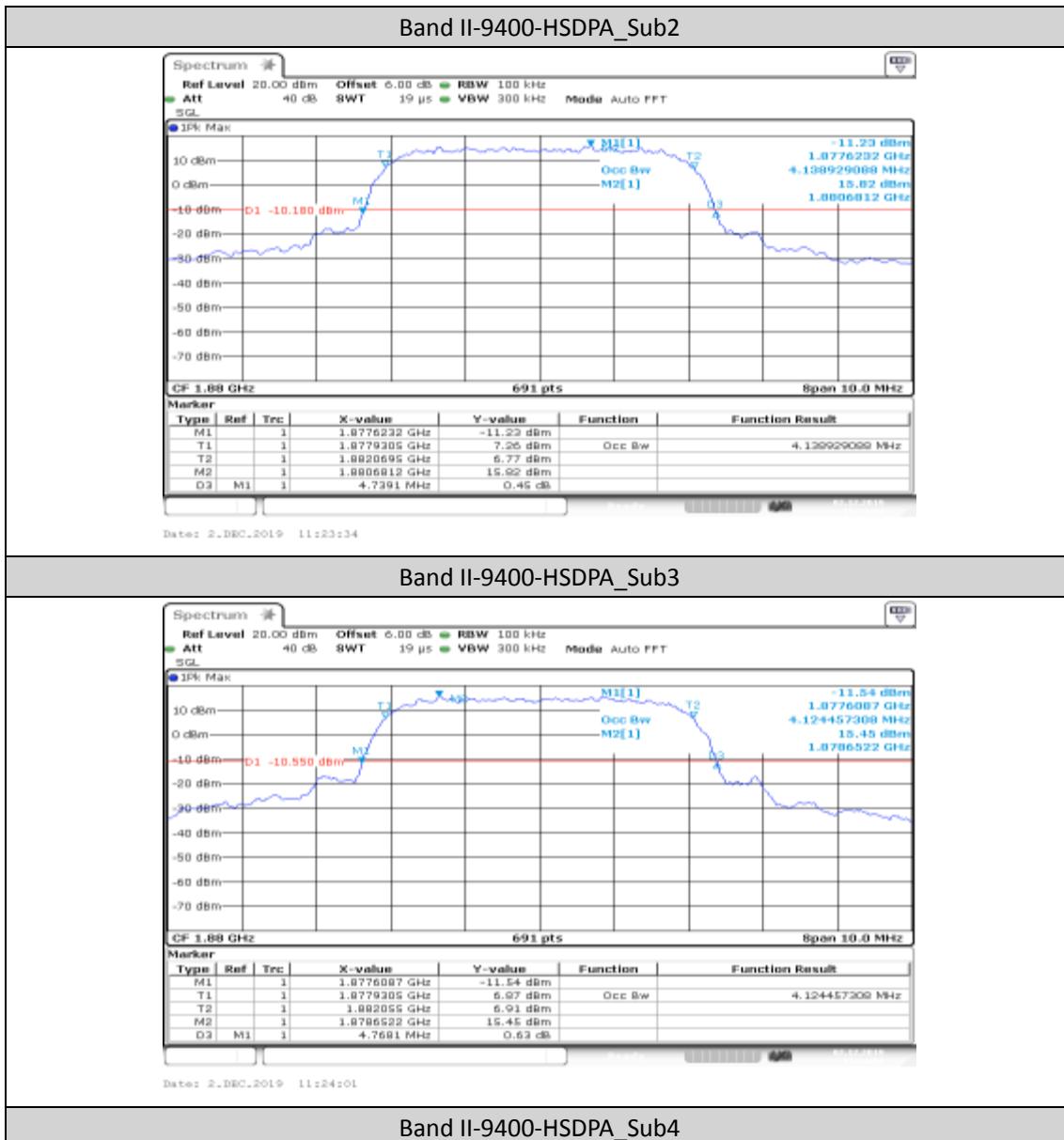


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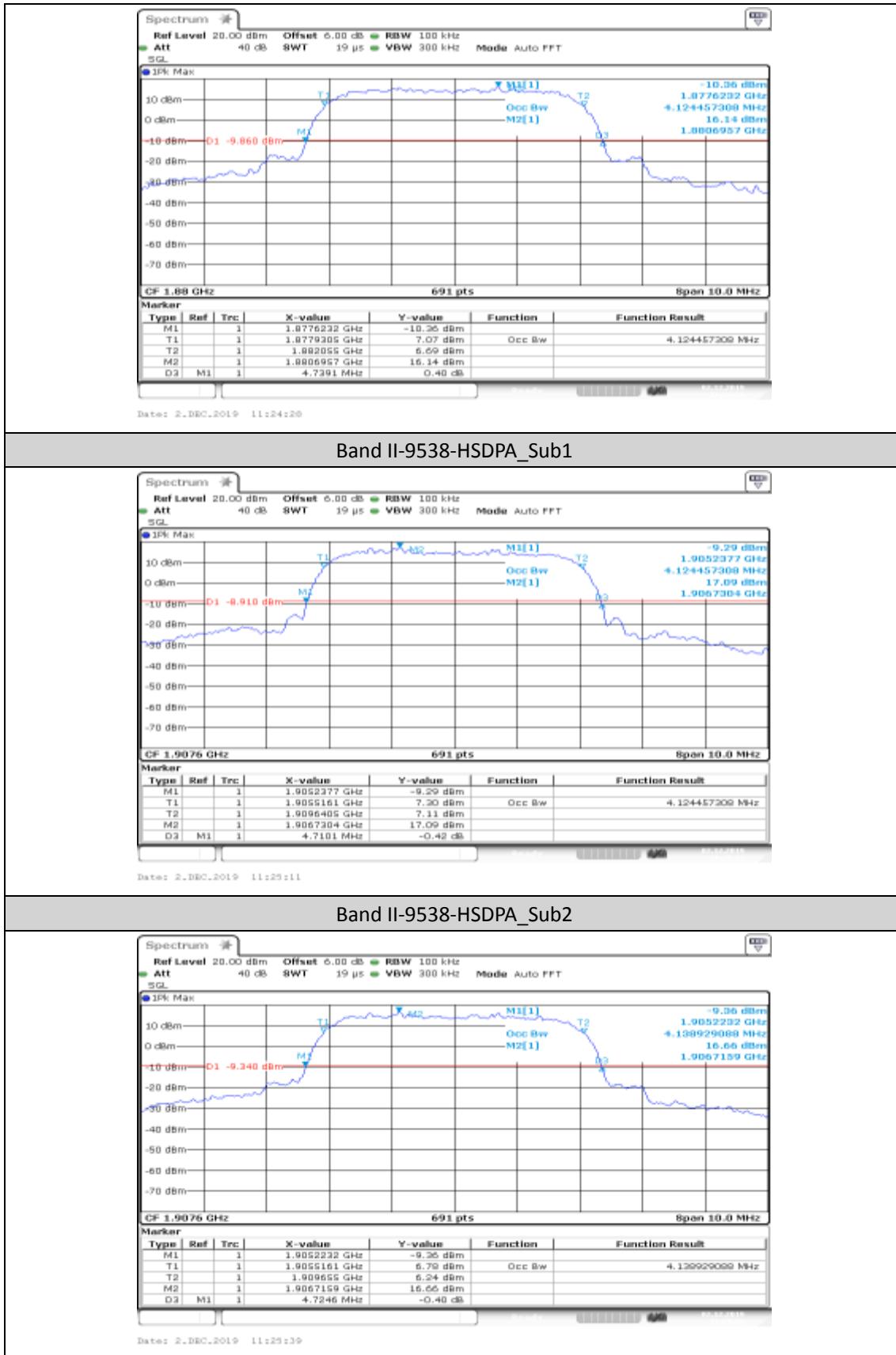
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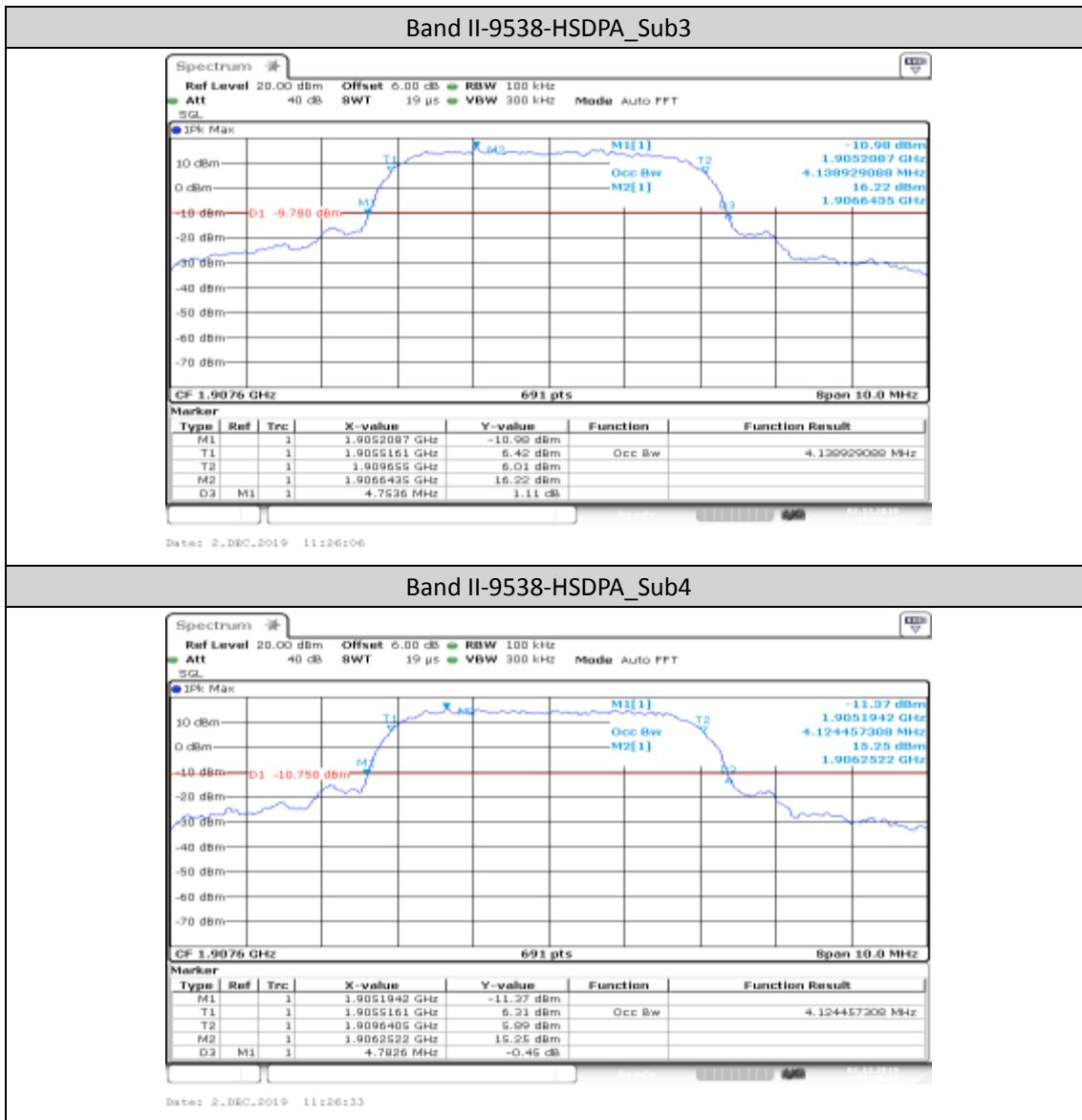


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**HSUPA:****Band II-9262-HSUPA_Sub1**

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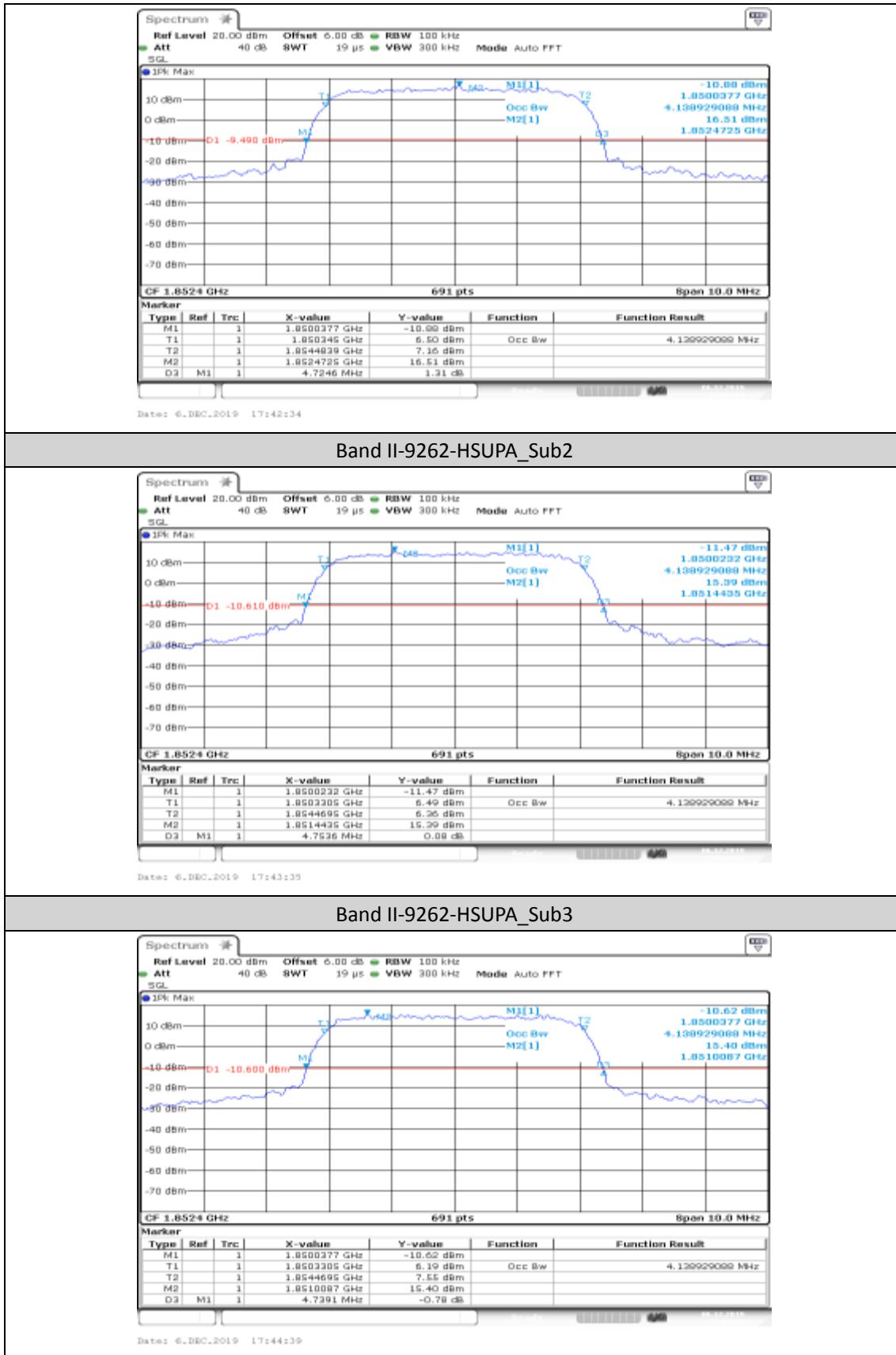
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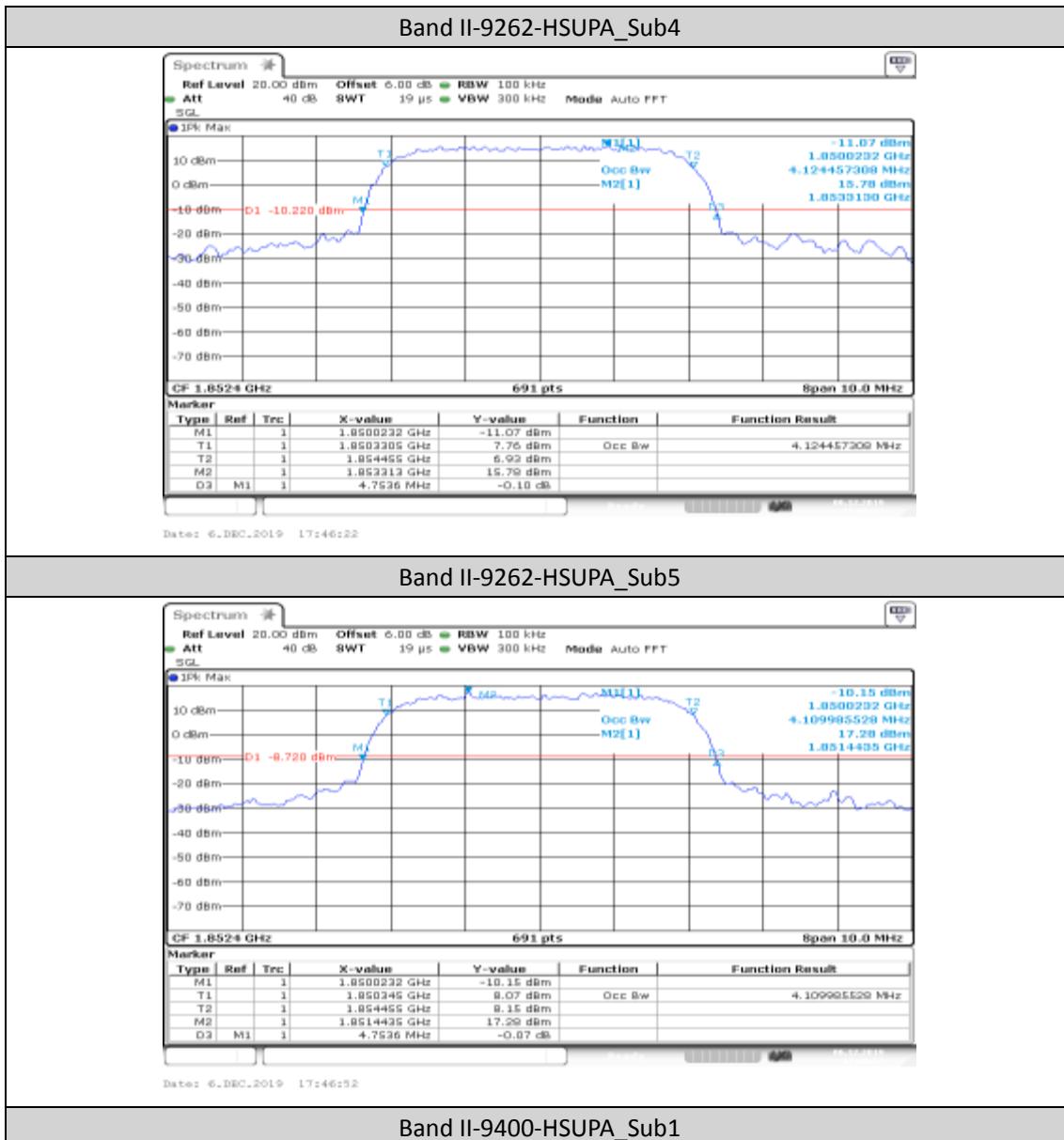
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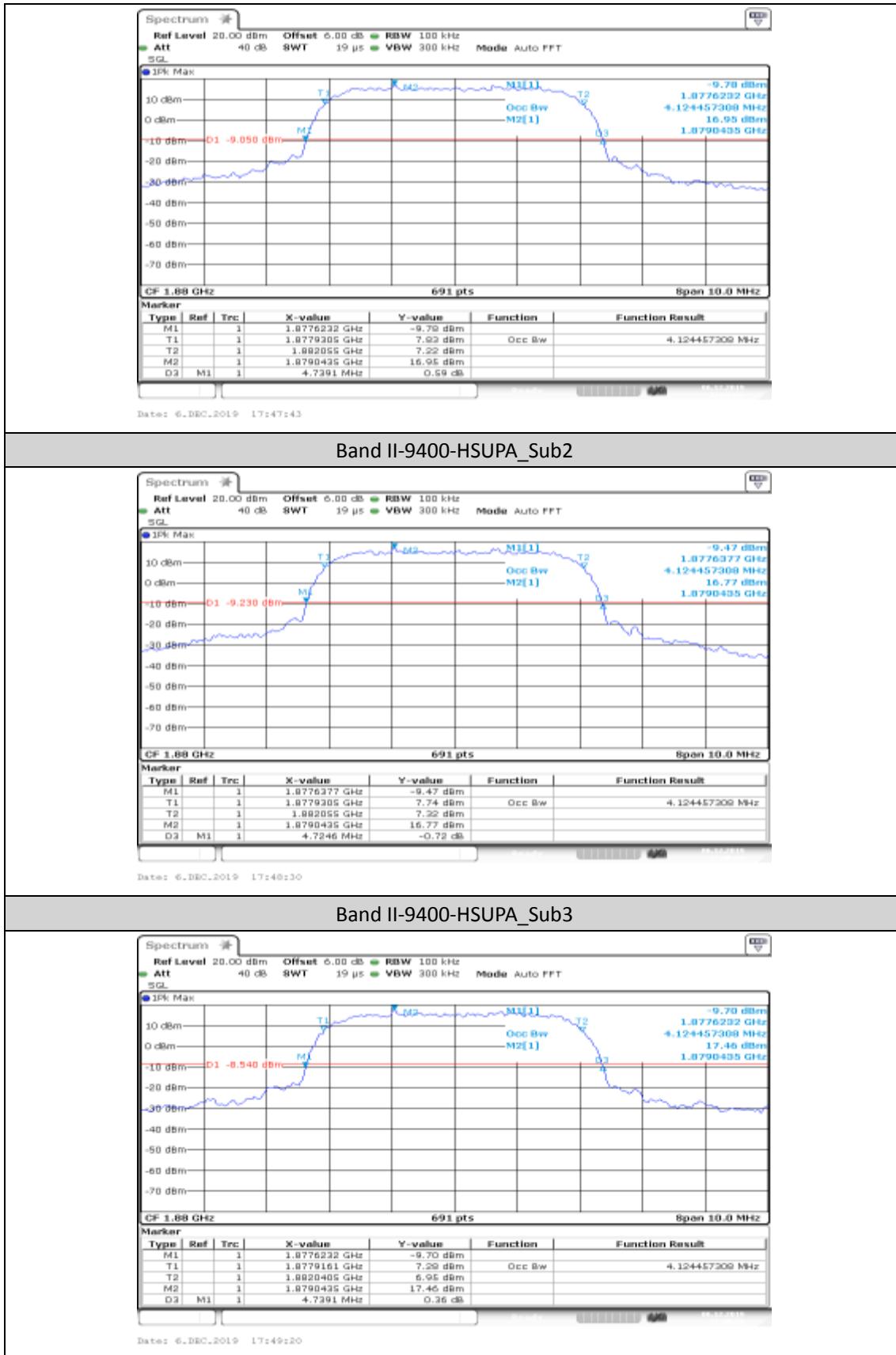
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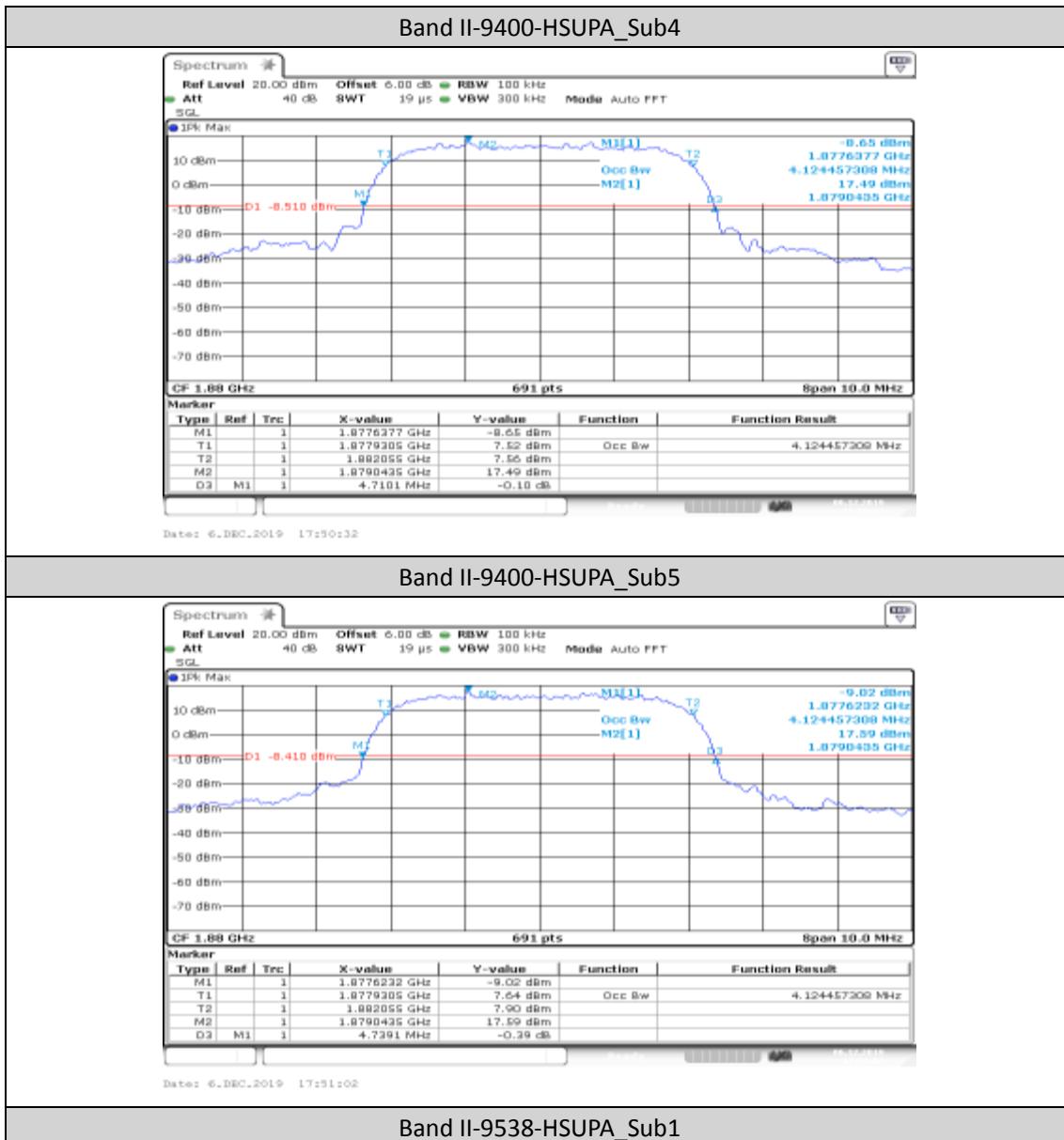


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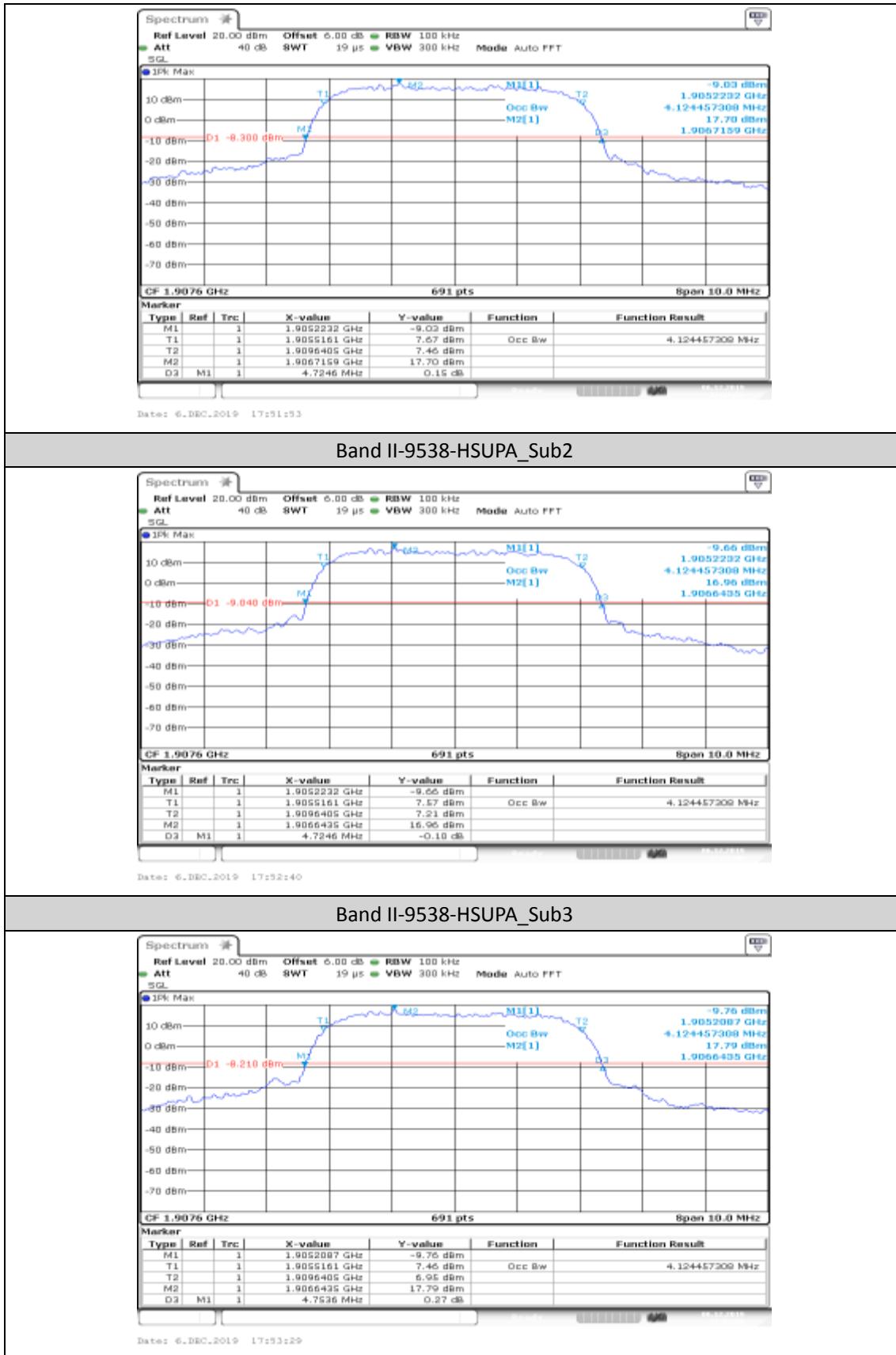
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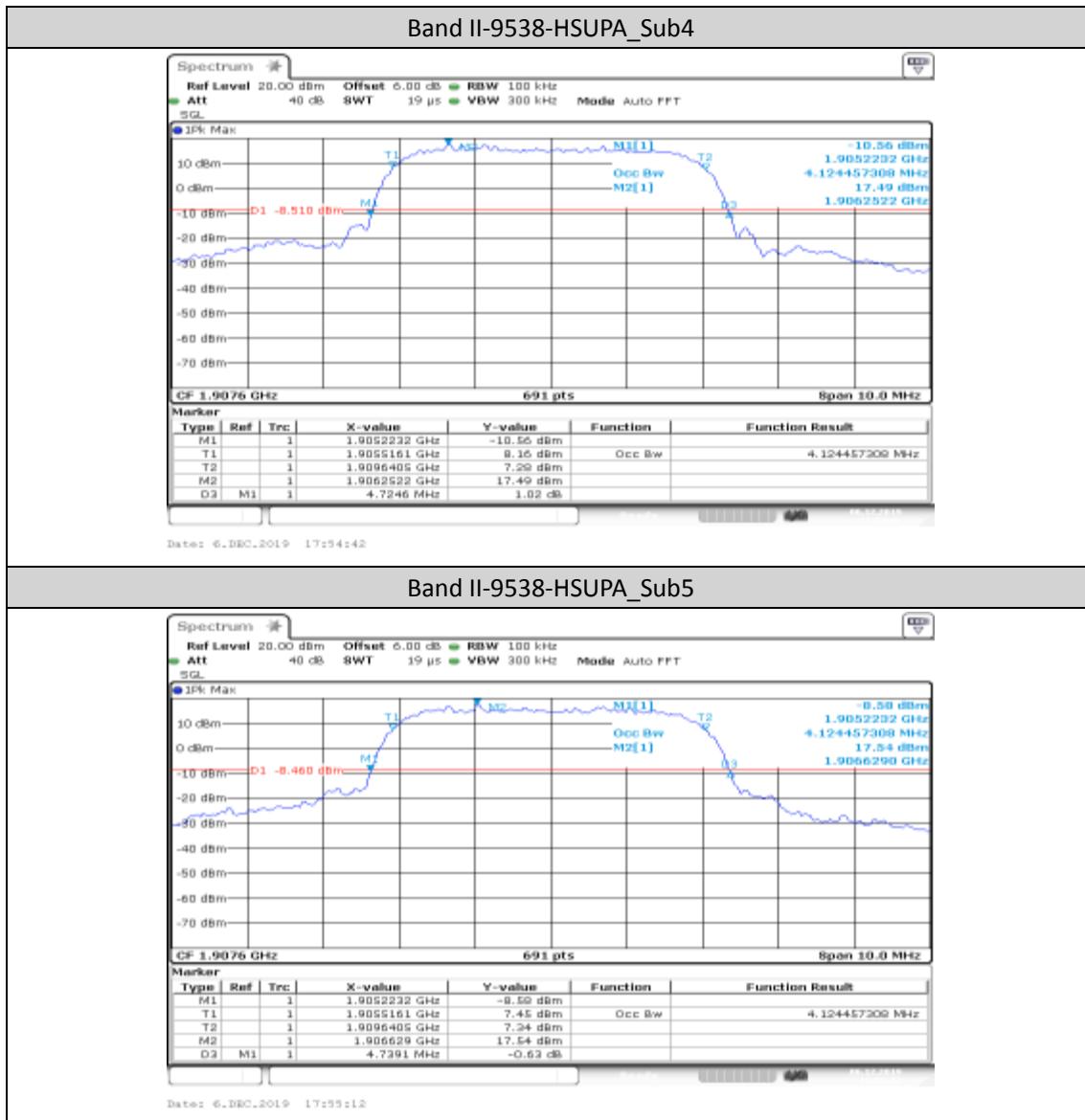
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AppendixD:Band Edge

Test Result

WCDMA:

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-18.63	-13	PASS
Band II	9538	-19.03	-13	PASS

HSDPA:

Band	Channel	SubTest	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub0	-19.23	-13	PASS
Band II	9262	HSDPA_Sub1	-18.37	-13	PASS
Band II	9262	HSDPA_Sub2	-18.22	-13	PASS
Band II	9262	HSDPA_Sub3	-17.71	-13	PASS
Band II	9538	HSDPA_Sub0	-19.71	-13	PASS
Band II	9538	HSDPA_Sub1	-18.99	-13	PASS
Band II	9538	HSDPA_Sub2	-17.78	-13	PASS
Band II	9538	HSDPA_Sub3	-17.02	-13	PASS

HSUPA:

Band	Channel	SubTest	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	-18.50	-13	PASS
Band II	9262	HSUPA_Sub2	-15.62	-13	PASS
Band II	9262	HSUPA_Sub3	-20.15	-13	PASS
Band II	9262	HSUPA_Sub4	-19.10	-13	PASS
Band II	9262	HSUPA_Sub5	-18.05	-13	PASS
Band II	9538	HSUPA_Sub1	-20.12	-13	PASS
Band II	9538	HSUPA_Sub2	-20.63	-13	PASS
Band II	9538	HSUPA_Sub3	-20.05	-13	PASS
Band II	9538	HSUPA_Sub4	-20.43	-13	PASS
Band II	9538	HSUPA_Sub5	-20.57	-13	PASS

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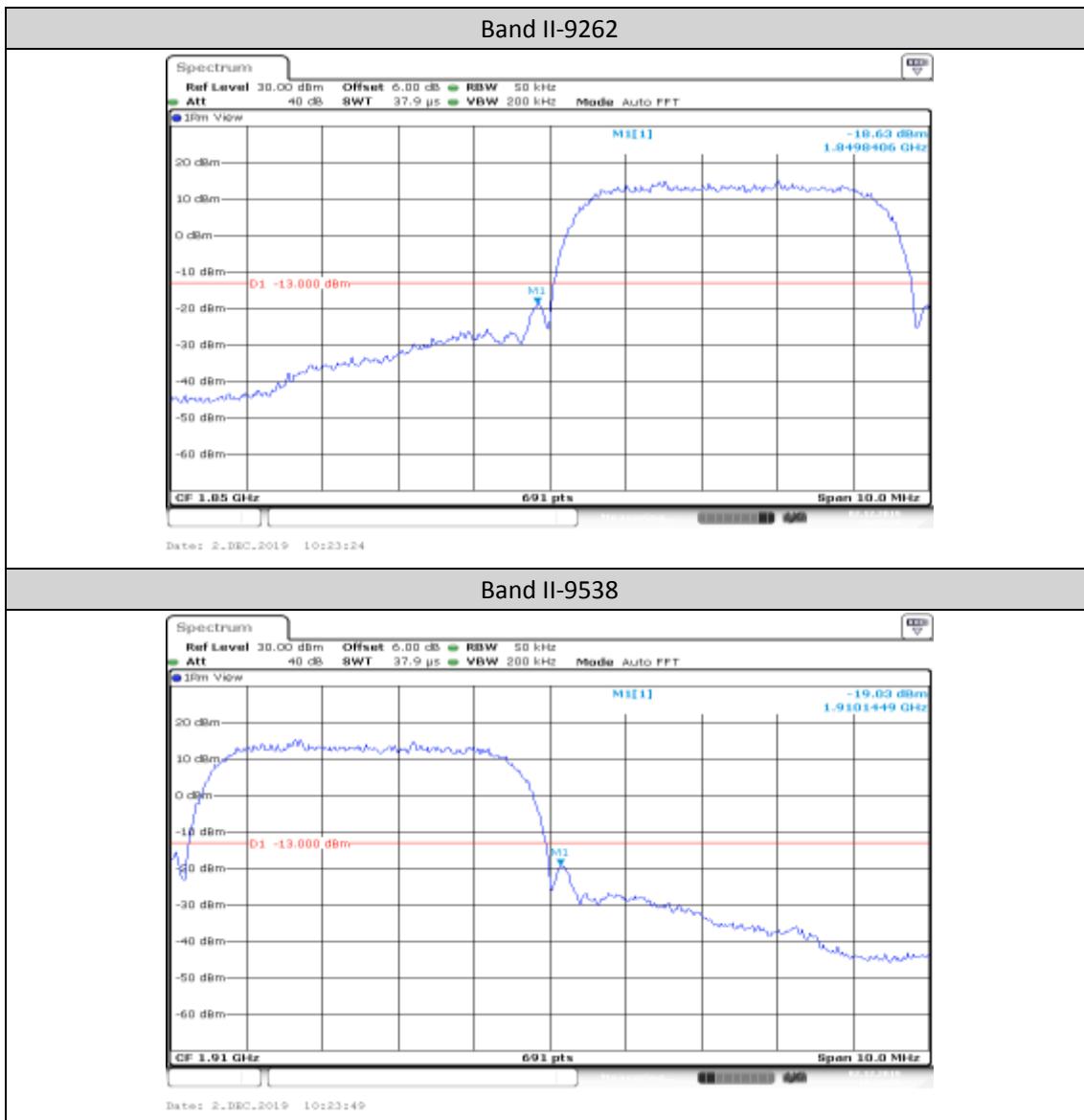
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Test Graphs

WCDMA:



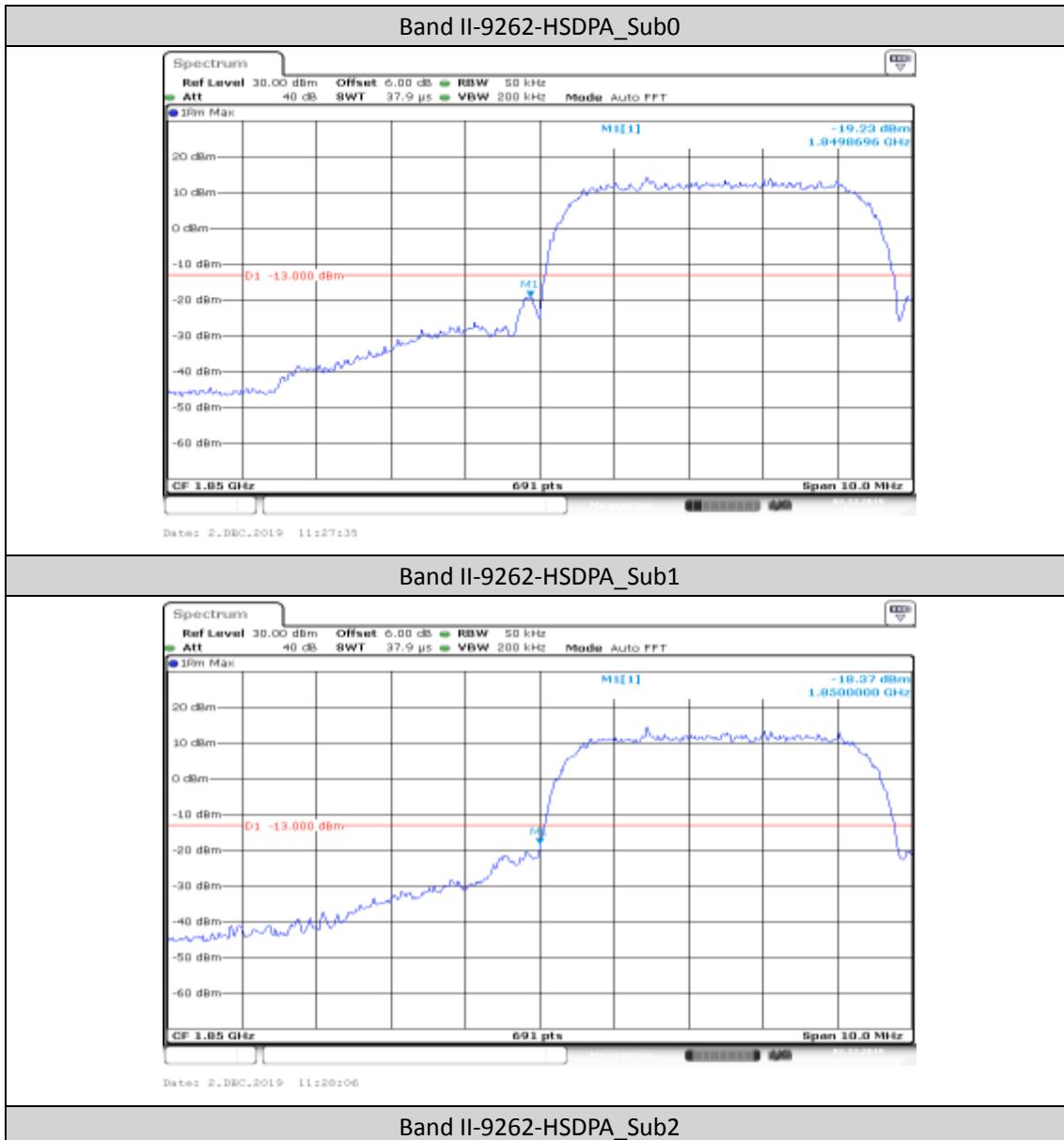
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HSDPA:

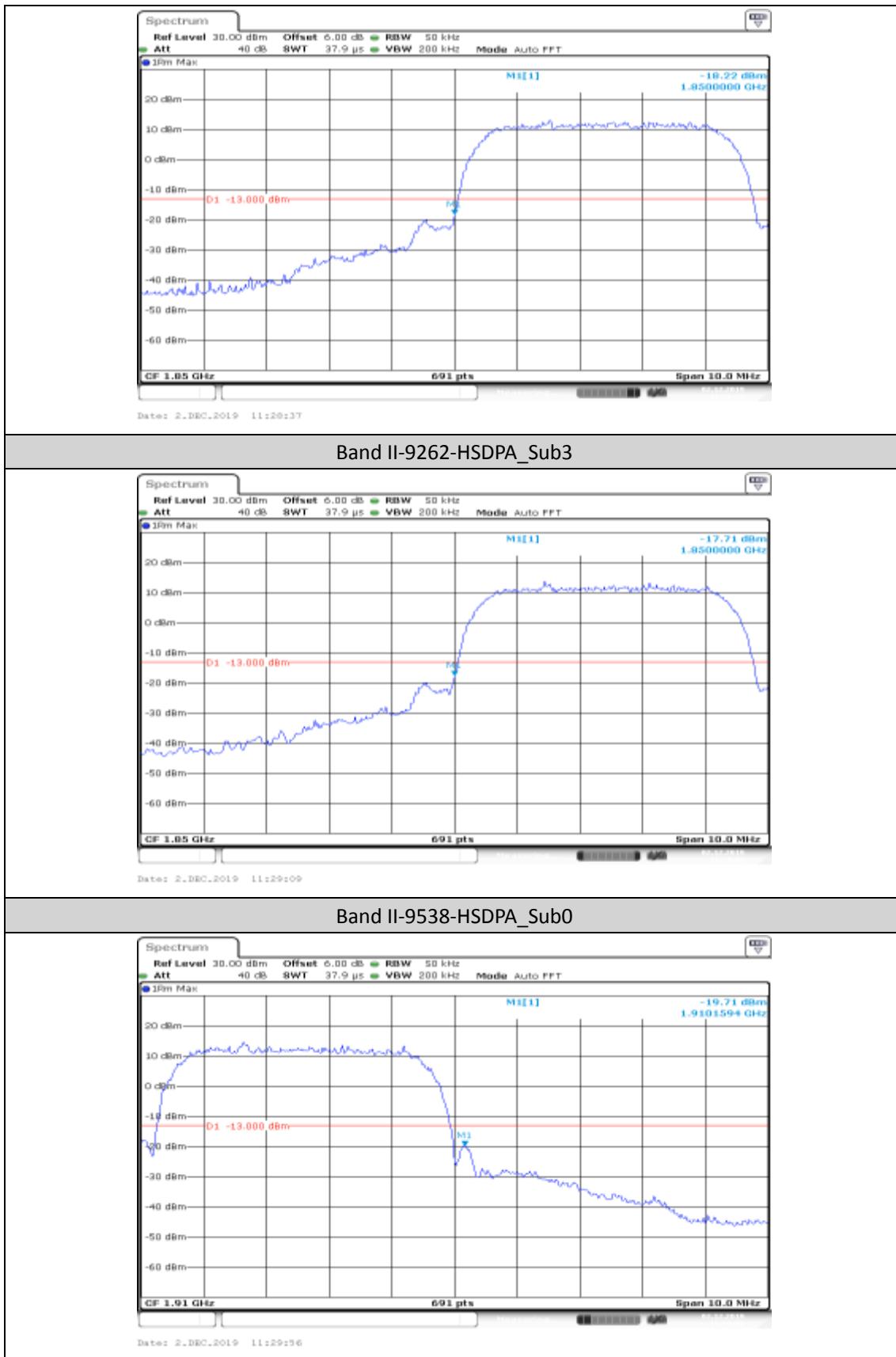
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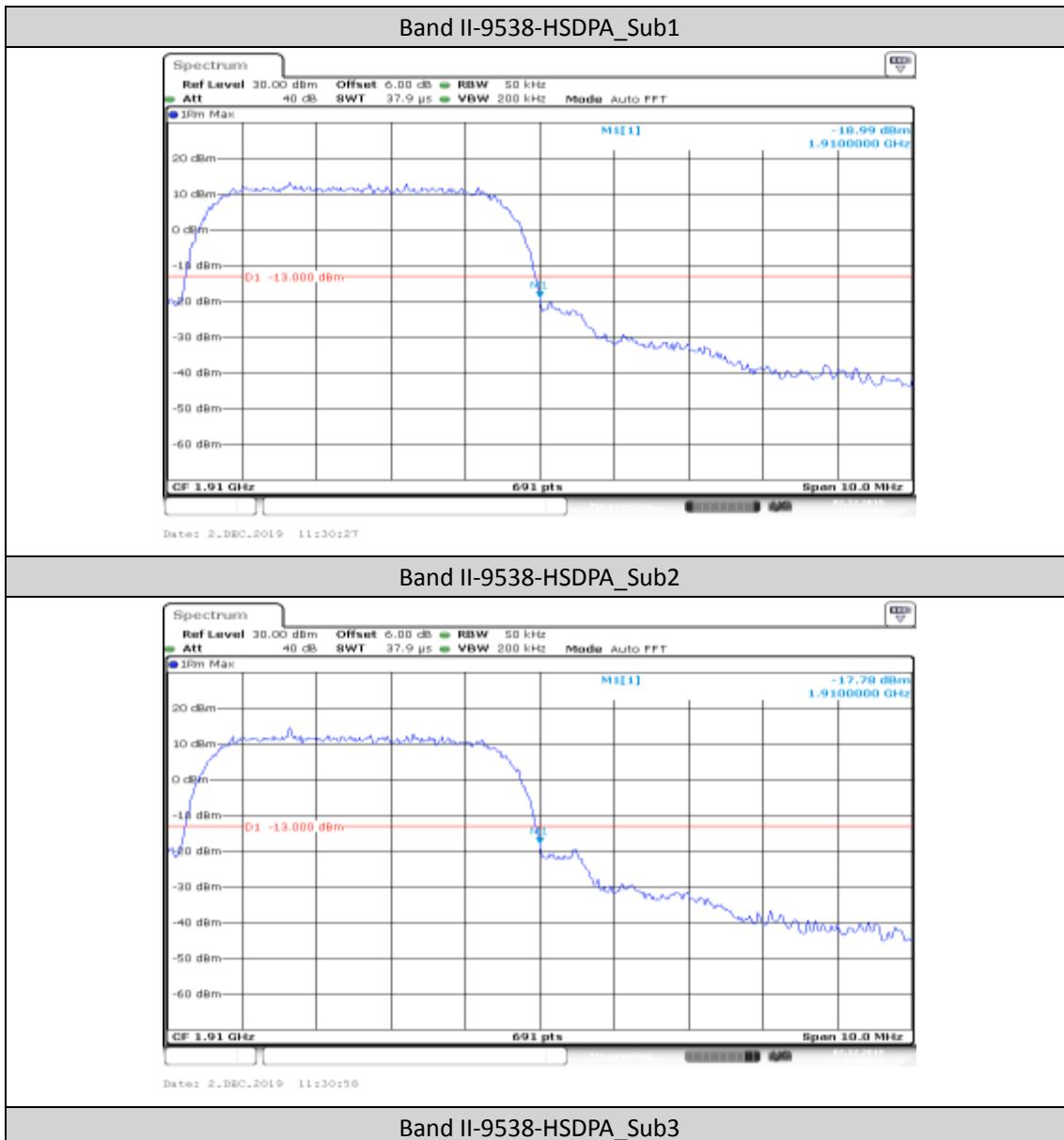
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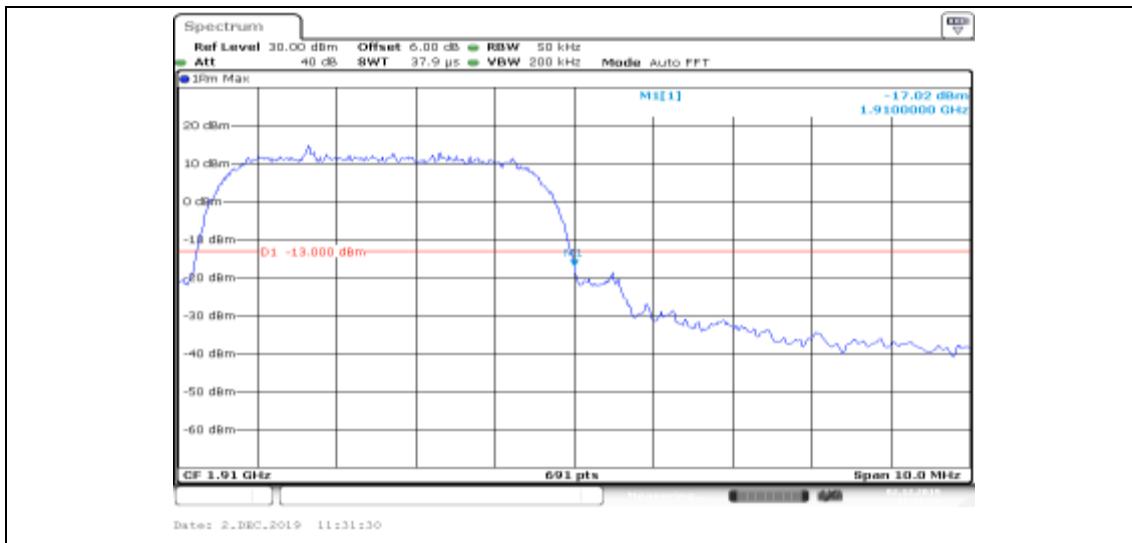
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**HSUPA:**

Band II-9262-HSUPA_Sub1

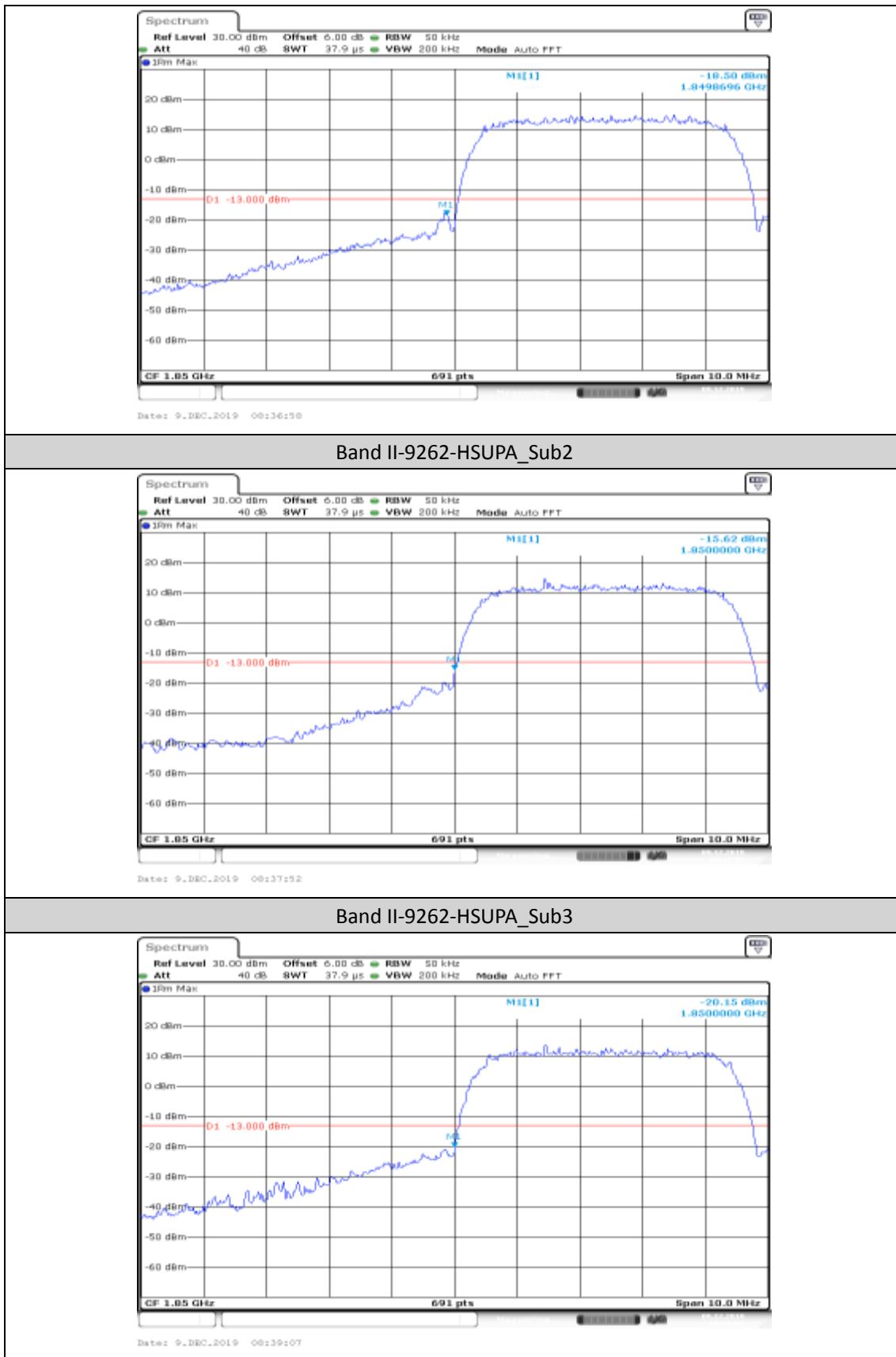
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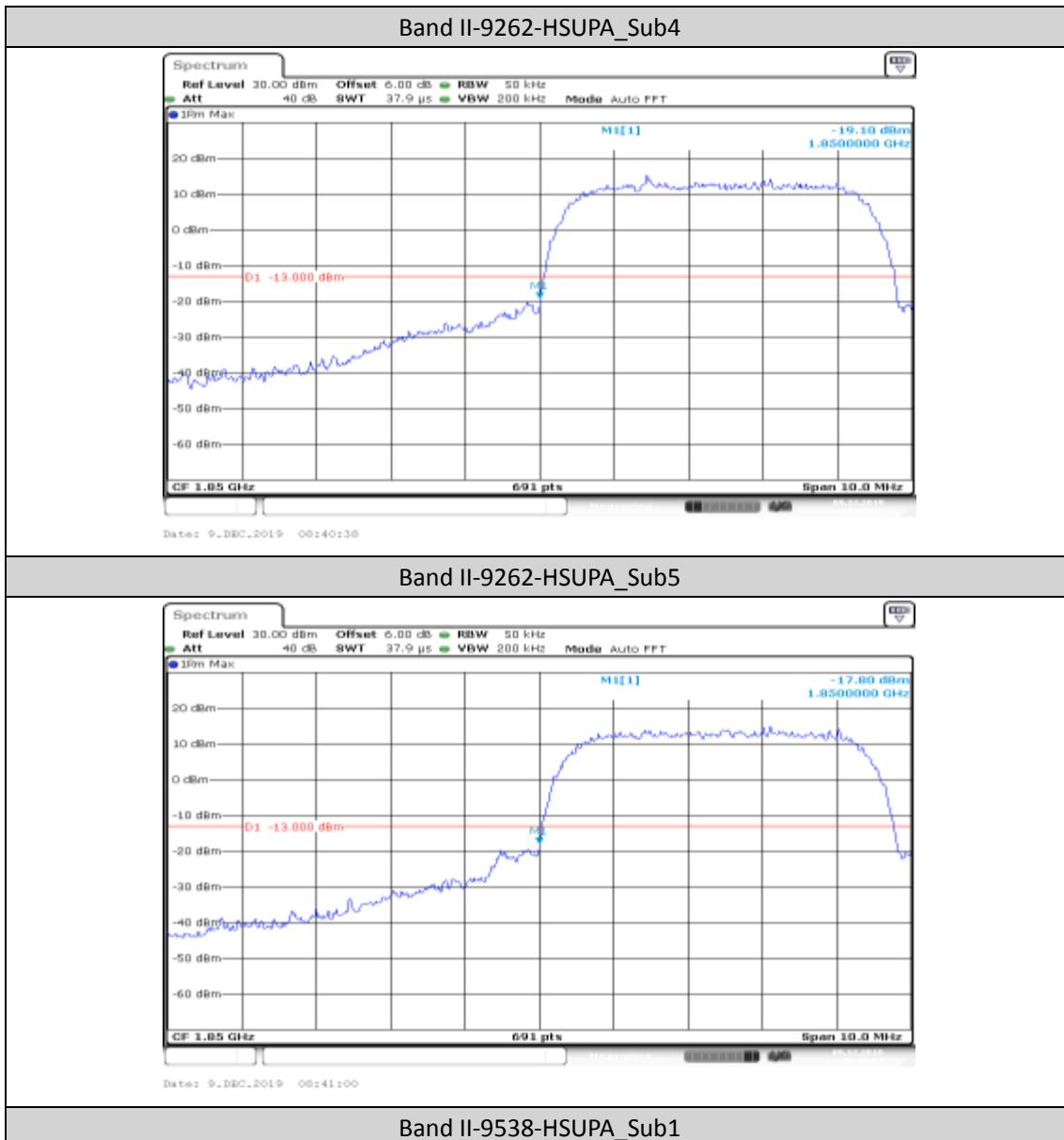
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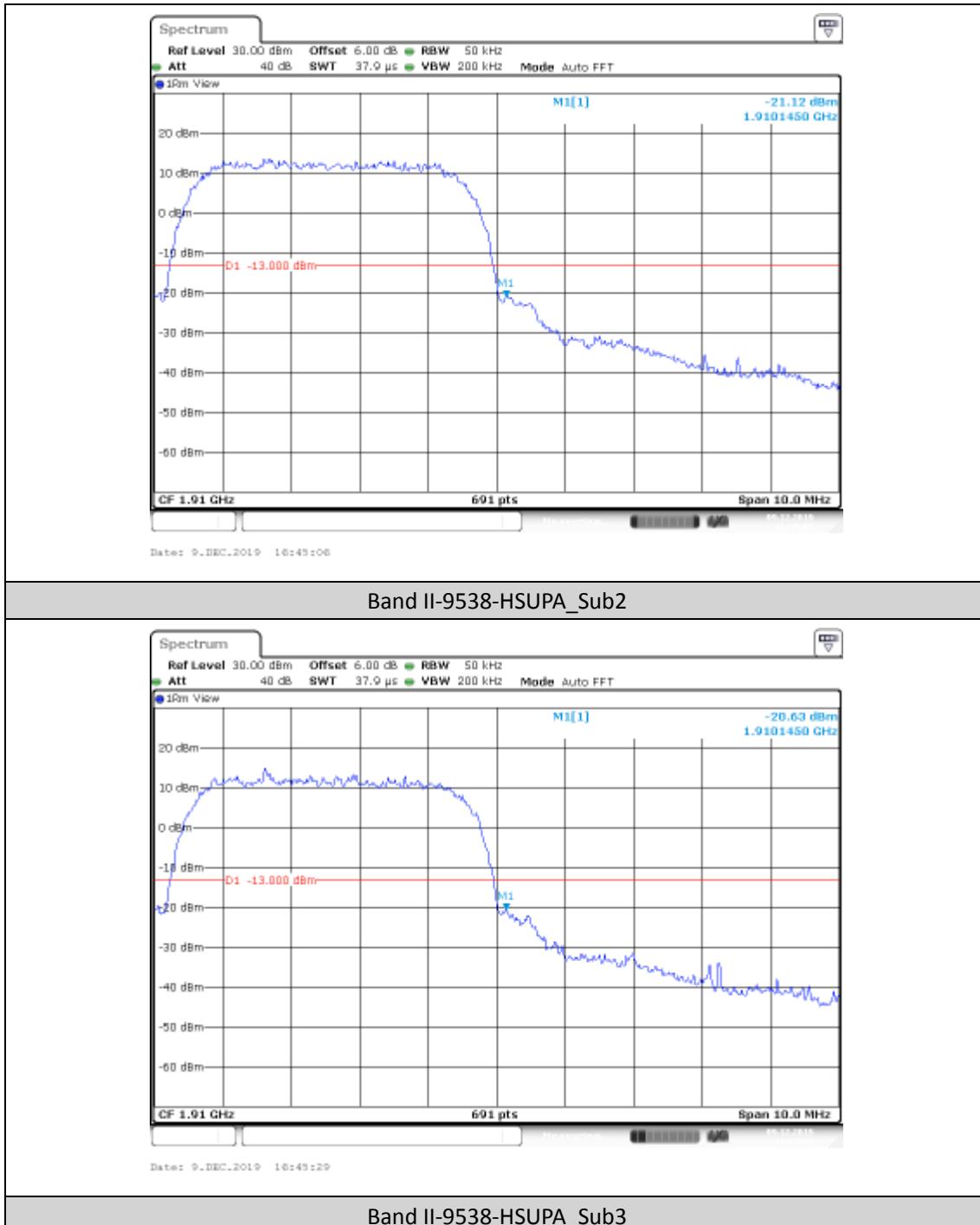
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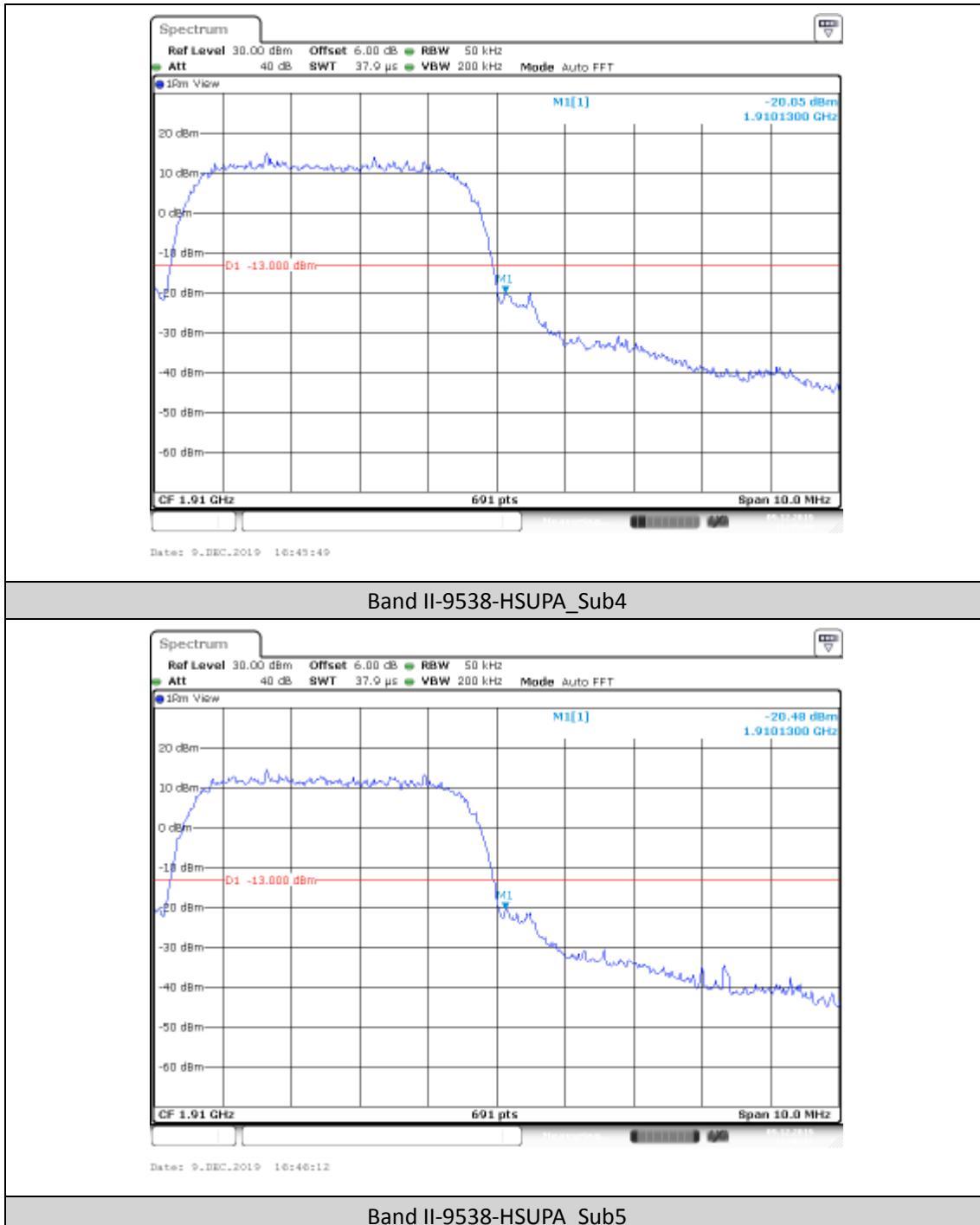
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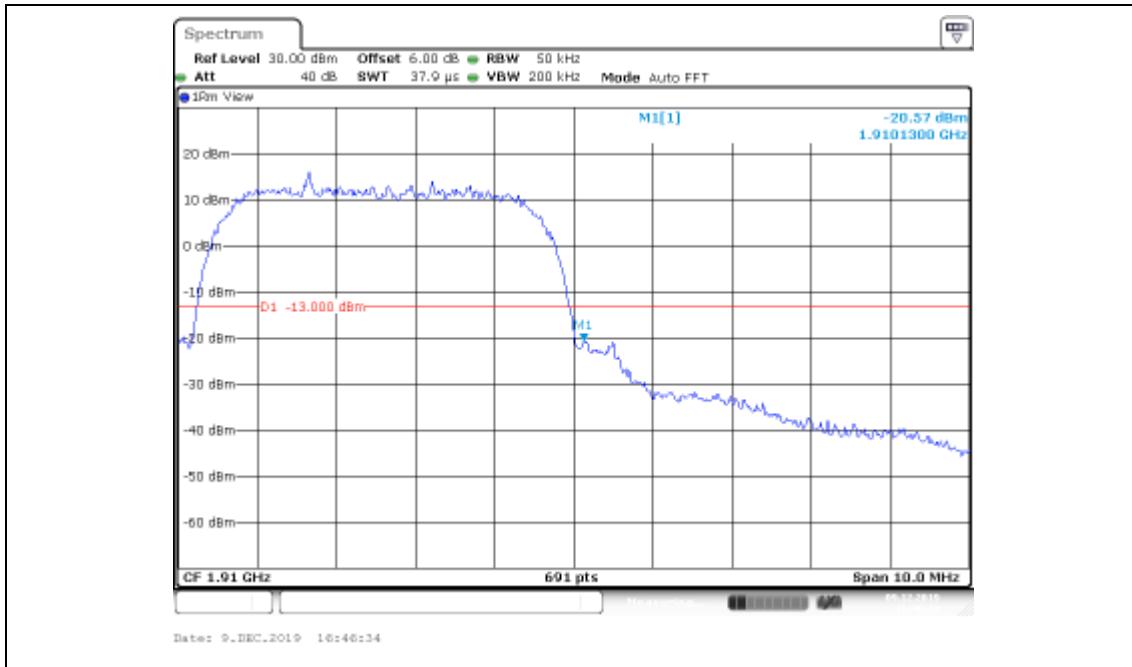
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Appendix E: Conducted Spurious Emission

Test Result

WCDMA:

Band	Channel	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	0.009~0.15	-73.66	-43	PASS
Band II	9262	0.15~30	-52.51	-23	PASS
Band II	9262	30~1000	-39.35	-13	PASS
Band II	9262	1000~3000	-45.99	-13	PASS
Band II	9262	3000~10000	-36.13	-13	PASS
Band II	9262	10000~20000	-53.64	-13	PASS
Band II	9400	0.009~0.15	-75.05	-43	PASS
Band II	9400	0.15~30	-52.11	-23	PASS
Band II	9400	30~1000	-40.40	-13	PASS
Band II	9400	1000~3000	-45.98	-13	PASS
Band II	9400	3000~10000	-36.15	-13	PASS
Band II	9400	10000~20000	-53.58	-13	PASS
Band II	9538	0.009~0.15	-73.66	-43	PASS
Band II	9538	0.15~30	-51.46	-23	PASS
Band II	9538	30~1000	-39.01	-13	PASS
Band II	9538	1000~3000	-45.96	-13	PASS
Band II	9538	3000~10000	-35.49	-13	PASS
Band II	9538	10000~20000	-53.47	-13	PASS

HSDPA:

Band	Channel	SubTest	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	0.009~0.15	-67.80	-43	PASS
Band II	9262	HSDPA_Sub2	0.009~0.15	-75.03	-43	PASS
Band II	9262	HSDPA_Sub3	0.009~0.15	-73.82	-43	PASS
Band II	9262	HSDPA_Sub4	0.009~0.15	-68.60	-43	PASS
Band II	9262	HSDPA_Sub1	0.15~30	-53.69	-23	PASS
Band II	9262	HSDPA_Sub2	0.15~30	-44.59	-23	PASS
Band II	9262	HSDPA_Sub3	0.15~30	-45.82	-23	PASS
Band II	9262	HSDPA_Sub4	0.15~30	-45.24	-23	PASS
Band II	9262	HSDPA_Sub1	30~1000	-40.24	-13	PASS
Band II	9262	HSDPA_Sub2	30~1000	-40.35	-13	PASS
Band II	9262	HSDPA_Sub3	30~1000	-39.24	-13	PASS
Band II	9262	HSDPA_Sub4	30~1000	-38.66	-13	PASS
Band II	9262	HSDPA_Sub1	1000~3000	-46.04	-13	PASS

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Band II	9262	HSDPA_Sub2	1000~3000	-46.02	-13	PASS
Band II	9262	HSDPA_Sub3	1000~3000	-45.81	-13	PASS
Band II	9262	HSDPA_Sub4	1000~3000	-46.07	-13	PASS
Band II	9262	HSDPA_Sub1	3000~10000	-37.34	-13	PASS
Band II	9262	HSDPA_Sub2	3000~10000	-38.15	-13	PASS
Band II	9262	HSDPA_Sub3	3000~10000	-37.65	-13	PASS
Band II	9262	HSDPA_Sub4	3000~10000	-37.98	-13	PASS
Band II	9262	HSDPA_Sub1	10000~20000	-53.45	-13	PASS
Band II	9262	HSDPA_Sub2	10000~20000	-53.50	-13	PASS
Band II	9262	HSDPA_Sub3	10000~20000	-53.53	-13	PASS
Band II	9262	HSDPA_Sub4	10000~20000	-53.45	-13	PASS
Band II	9400	HSDPA_Sub1	0.009~0.15	-70.36	-43	PASS
Band II	9400	HSDPA_Sub2	0.009~0.15	-75.13	-43	PASS
Band II	9400	HSDPA_Sub3	0.009~0.15	-69.29	-43	PASS
Band II	9400	HSDPA_Sub4	0.009~0.15	-74.49	-43	PASS
Band II	9400	HSDPA_Sub1	0.15~30	-44.99	-23	PASS
Band II	9400	HSDPA_Sub2	0.15~30	-52.39	-23	PASS
Band II	9400	HSDPA_Sub3	0.15~30	-44.79	-23	PASS
Band II	9400	HSDPA_Sub4	0.15~30	-45.42	-23	PASS
Band II	9400	HSDPA_Sub1	30~1000	-38.67	-13	PASS
Band II	9400	HSDPA_Sub2	30~1000	-40.05	-13	PASS
Band II	9400	HSDPA_Sub3	30~1000	-38.71	-13	PASS
Band II	9400	HSDPA_Sub4	30~1000	-40.07	-13	PASS
Band II	9400	HSDPA_Sub1	1000~3000	-46.06	-13	PASS
Band II	9400	HSDPA_Sub2	1000~3000	-46.08	-13	PASS
Band II	9400	HSDPA_Sub3	1000~3000	-45.88	-13	PASS
Band II	9400	HSDPA_Sub4	1000~3000	-46.00	-13	PASS
Band II	9400	HSDPA_Sub1	3000~10000	-37.76	-13	PASS
Band II	9400	HSDPA_Sub2	3000~10000	-37.68	-13	PASS
Band II	9400	HSDPA_Sub3	3000~10000	-37.91	-13	PASS
Band II	9400	HSDPA_Sub4	3000~10000	-37.25	-13	PASS
Band II	9400	HSDPA_Sub1	10000~20000	-53.43	-13	PASS
Band II	9400	HSDPA_Sub2	10000~20000	-53.50	-13	PASS
Band II	9400	HSDPA_Sub3	10000~20000	-53.61	-13	PASS
Band II	9400	HSDPA_Sub4	10000~20000	-53.45	-13	PASS
Band II	9538	HSDPA_Sub1	0.009~0.15	-70.44	-43	PASS
Band II	9538	HSDPA_Sub2	0.009~0.15	-69.45	-43	PASS
Band II	9538	HSDPA_Sub3	0.009~0.15	-75.87	-43	PASS
Band II	9538	HSDPA_Sub4	0.009~0.15	-70.24	-43	PASS
Band II	9538	HSDPA_Sub1	0.15~30	-44.38	-23	PASS

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Band II	9538	HSDPA_Sub2	0.15~30	-45.83	-23	PASS
Band II	9538	HSDPA_Sub3	0.15~30	-44.59	-23	PASS
Band II	9538	HSDPA_Sub4	0.15~30	-52.02	-23	PASS
Band II	9538	HSDPA_Sub1	30~1000	-40.03	-13	PASS
Band II	9538	HSDPA_Sub2	30~1000	-39.89	-13	PASS
Band II	9538	HSDPA_Sub3	30~1000	-40.16	-13	PASS
Band II	9538	HSDPA_Sub4	30~1000	-39.44	-13	PASS
Band II	9538	HSDPA_Sub1	1000~3000	-45.90	-13	PASS
Band II	9538	HSDPA_Sub2	1000~3000	-45.95	-13	PASS
Band II	9538	HSDPA_Sub3	1000~3000	-46.14	-13	PASS
Band II	9538	HSDPA_Sub4	1000~3000	-46.06	-13	PASS
Band II	9538	HSDPA_Sub1	3000~10000	-37.33	-13	PASS
Band II	9538	HSDPA_Sub2	3000~10000	-36.73	-13	PASS
Band II	9538	HSDPA_Sub3	3000~10000	-36.68	-13	PASS
Band II	9538	HSDPA_Sub4	3000~10000	-36.76	-13	PASS
Band II	9538	HSDPA_Sub1	10000~20000	-53.54	-13	PASS
Band II	9538	HSDPA_Sub2	10000~20000	-53.56	-13	PASS
Band II	9538	HSDPA_Sub3	10000~20000	-53.54	-13	PASS
Band II	9538	HSDPA_Sub4	10000~20000	-53.50	-13	PASS

HSUPA:

Band	Channel	SubTest	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	0.009~0.15	-69.84	-43	PASS
Band II	9262	HSUPA_Sub2	0.009~0.15	-69.81	-43	PASS
Band II	9262	HSUPA_Sub3	0.009~0.15	-75.03	-43	PASS
Band II	9262	HSUPA_Sub4	0.009~0.15	-74.77	-43	PASS
Band II	9262	HSUPA_Sub5	0.009~0.15	-75.61	-43	PASS
Band II	9262	HSUPA_Sub1	0.15~30	-48.84	-23	PASS
Band II	9262	HSUPA_Sub2	0.15~30	-52.57	-23	PASS
Band II	9262	HSUPA_Sub3	0.15~30	-44.07	-23	PASS
Band II	9262	HSUPA_Sub4	0.15~30	-44.02	-23	PASS
Band II	9262	HSUPA_Sub5	0.15~30	-45.13	-23	PASS
Band II	9262	HSUPA_Sub1	30~1000	-39.86	-13	PASS
Band II	9262	HSUPA_Sub2	30~1000	-40.78	-13	PASS
Band II	9262	HSUPA_Sub3	30~1000	-39.78	-13	PASS
Band II	9262	HSUPA_Sub4	30~1000	-39.38	-13	PASS
Band II	9262	HSUPA_Sub5	30~1000	-39.50	-13	PASS
Band II	9262	HSUPA_Sub1	1000~3000	-45.86	-13	PASS
Band II	9262	HSUPA_Sub2	1000~3000	-45.77	-13	PASS
Band II	9262	HSUPA_Sub3	1000~3000	-45.65	-13	PASS

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Band II	9262	HSUPA_Sub4	1000~3000	-45.04	-13	PASS
Band II	9262	HSUPA_Sub5	1000~3000	-42.36	-13	PASS
Band II	9262	HSUPA_Sub1	3000~10000	-37.03	-13	PASS
Band II	9262	HSUPA_Sub2	3000~10000	-35.60	-13	PASS
Band II	9262	HSUPA_Sub3	3000~10000	-35.75	-13	PASS
Band II	9262	HSUPA_Sub4	3000~10000	-37.44	-13	PASS
Band II	9262	HSUPA_Sub5	3000~10000	-35.71	-13	PASS
Band II	9262	HSUPA_Sub1	10000~20000	-53.48	-13	PASS
Band II	9262	HSUPA_Sub2	10000~20000	-53.39	-13	PASS
Band II	9262	HSUPA_Sub3	10000~20000	-53.47	-13	PASS
Band II	9262	HSUPA_Sub4	10000~20000	-53.55	-13	PASS
Band II	9262	HSUPA_Sub5	10000~20000	-53.39	-13	PASS
Band II	9400	HSUPA_Sub1	0.009~0.15	-69.62	-43	PASS
Band II	9400	HSUPA_Sub2	0.009~0.15	-75.29	-43	PASS
Band II	9400	HSUPA_Sub3	0.009~0.15	-68.72	-43	PASS
Band II	9400	HSUPA_Sub4	0.009~0.15	-76.03	-43	PASS
Band II	9400	HSUPA_Sub5	0.009~0.15	-76.40	-43	PASS
Band II	9400	HSUPA_Sub1	0.15~30	-44.17	-23	PASS
Band II	9400	HSUPA_Sub2	0.15~30	-48.32	-23	PASS
Band II	9400	HSUPA_Sub3	0.15~30	-52.65	-23	PASS
Band II	9400	HSUPA_Sub4	0.15~30	-43.85	-23	PASS
Band II	9400	HSUPA_Sub5	0.15~30	-44.55	-23	PASS
Band II	9400	HSUPA_Sub1	30~1000	-39.98	-13	PASS
Band II	9400	HSUPA_Sub2	30~1000	-40.15	-13	PASS
Band II	9400	HSUPA_Sub3	30~1000	-39.80	-13	PASS
Band II	9400	HSUPA_Sub4	30~1000	-39.66	-13	PASS
Band II	9400	HSUPA_Sub5	30~1000	-38.71	-13	PASS
Band II	9400	HSUPA_Sub1	1000~3000	-45.97	-13	PASS
Band II	9400	HSUPA_Sub2	1000~3000	-45.98	-13	PASS
Band II	9400	HSUPA_Sub3	1000~3000	-45.85	-13	PASS
Band II	9400	HSUPA_Sub4	1000~3000	-45.87	-13	PASS
Band II	9400	HSUPA_Sub5	1000~3000	-45.88	-13	PASS
Band II	9400	HSUPA_Sub1	3000~10000	-35.60	-13	PASS
Band II	9400	HSUPA_Sub2	3000~10000	-35.86	-13	PASS
Band II	9400	HSUPA_Sub3	3000~10000	-36.30	-13	PASS
Band II	9400	HSUPA_Sub4	3000~10000	-37.29	-13	PASS
Band II	9400	HSUPA_Sub5	3000~10000	-37.70	-13	PASS
Band II	9400	HSUPA_Sub1	10000~20000	-53.47	-13	PASS
Band II	9400	HSUPA_Sub2	10000~20000	-53.43	-13	PASS
Band II	9400	HSUPA_Sub3	10000~20000	-53.42	-13	PASS

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Band II	9400	HSUPA_Sub4	10000~20000	-53.56	-13	PASS
Band II	9400	HSUPA_Sub5	10000~20000	-53.41	-13	PASS
Band II	9538	HSUPA_Sub1	0.009~0.15	-74.16	-43	PASS
Band II	9538	HSUPA_Sub2	0.009~0.15	-73.64	-43	PASS
Band II	9538	HSUPA_Sub3	0.009~0.15	-75.54	-43	PASS
Band II	9538	HSUPA_Sub4	0.009~0.15	-76.10	-43	PASS
Band II	9538	HSUPA_Sub5	0.009~0.15	-69.78	-43	PASS
Band II	9538	HSUPA_Sub1	0.15~30	-52.56	-23	PASS
Band II	9538	HSUPA_Sub2	0.15~30	-43.27	-23	PASS
Band II	9538	HSUPA_Sub3	0.15~30	-44.93	-23	PASS
Band II	9538	HSUPA_Sub4	0.15~30	-45.72	-23	PASS
Band II	9538	HSUPA_Sub5	0.15~30	-48.36	-23	PASS
Band II	9538	HSUPA_Sub1	30~1000	-39.47	-13	PASS
Band II	9538	HSUPA_Sub2	30~1000	-39.56	-13	PASS
Band II	9538	HSUPA_Sub3	30~1000	-39.98	-13	PASS
Band II	9538	HSUPA_Sub4	30~1000	-39.72	-13	PASS
Band II	9538	HSUPA_Sub5	30~1000	-39.60	-13	PASS
Band II	9538	HSUPA_Sub1	1000~3000	-45.84	-13	PASS
Band II	9538	HSUPA_Sub2	1000~3000	-45.91	-13	PASS
Band II	9538	HSUPA_Sub3	1000~3000	-45.71	-13	PASS
Band II	9538	HSUPA_Sub4	1000~3000	-45.97	-13	PASS
Band II	9538	HSUPA_Sub5	1000~3000	-45.95	-13	PASS
Band II	9538	HSUPA_Sub1	3000~10000	-36.14	-13	PASS
Band II	9538	HSUPA_Sub2	3000~10000	-37.49	-13	PASS
Band II	9538	HSUPA_Sub3	3000~10000	-37.21	-13	PASS
Band II	9538	HSUPA_Sub4	3000~10000	-35.79	-13	PASS
Band II	9538	HSUPA_Sub5	3000~10000	-35.34	-13	PASS
Band II	9538	HSUPA_Sub1	10000~20000	-53.28	-13	PASS
Band II	9538	HSUPA_Sub2	10000~20000	-53.46	-13	PASS
Band II	9538	HSUPA_Sub3	10000~20000	-53.28	-13	PASS
Band II	9538	HSUPA_Sub4	10000~20000	-53.56	-13	PASS
Band II	9538	HSUPA_Sub5	10000~20000	-53.49	-13	PASS

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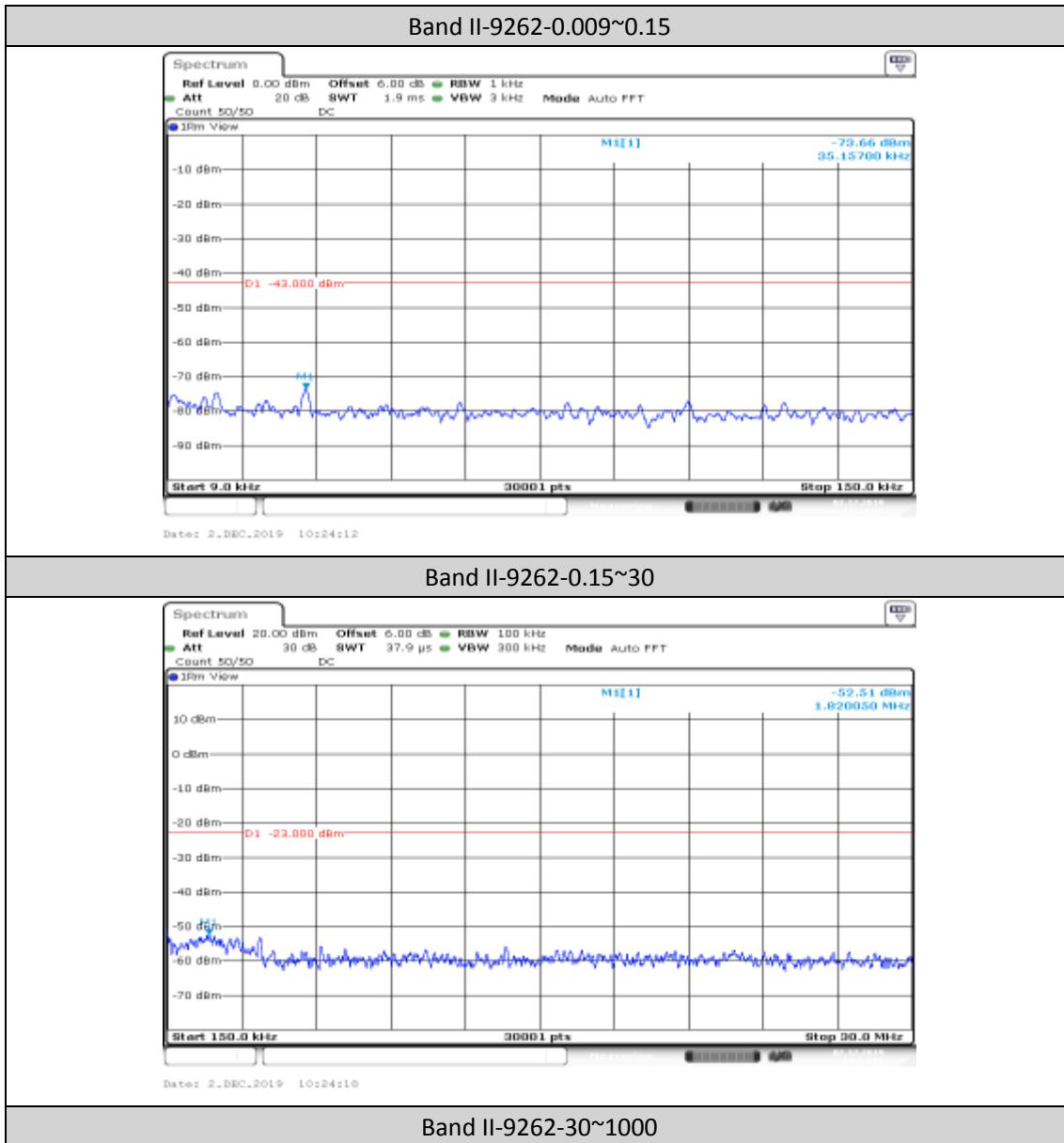
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Test Graphs

WCDMA:



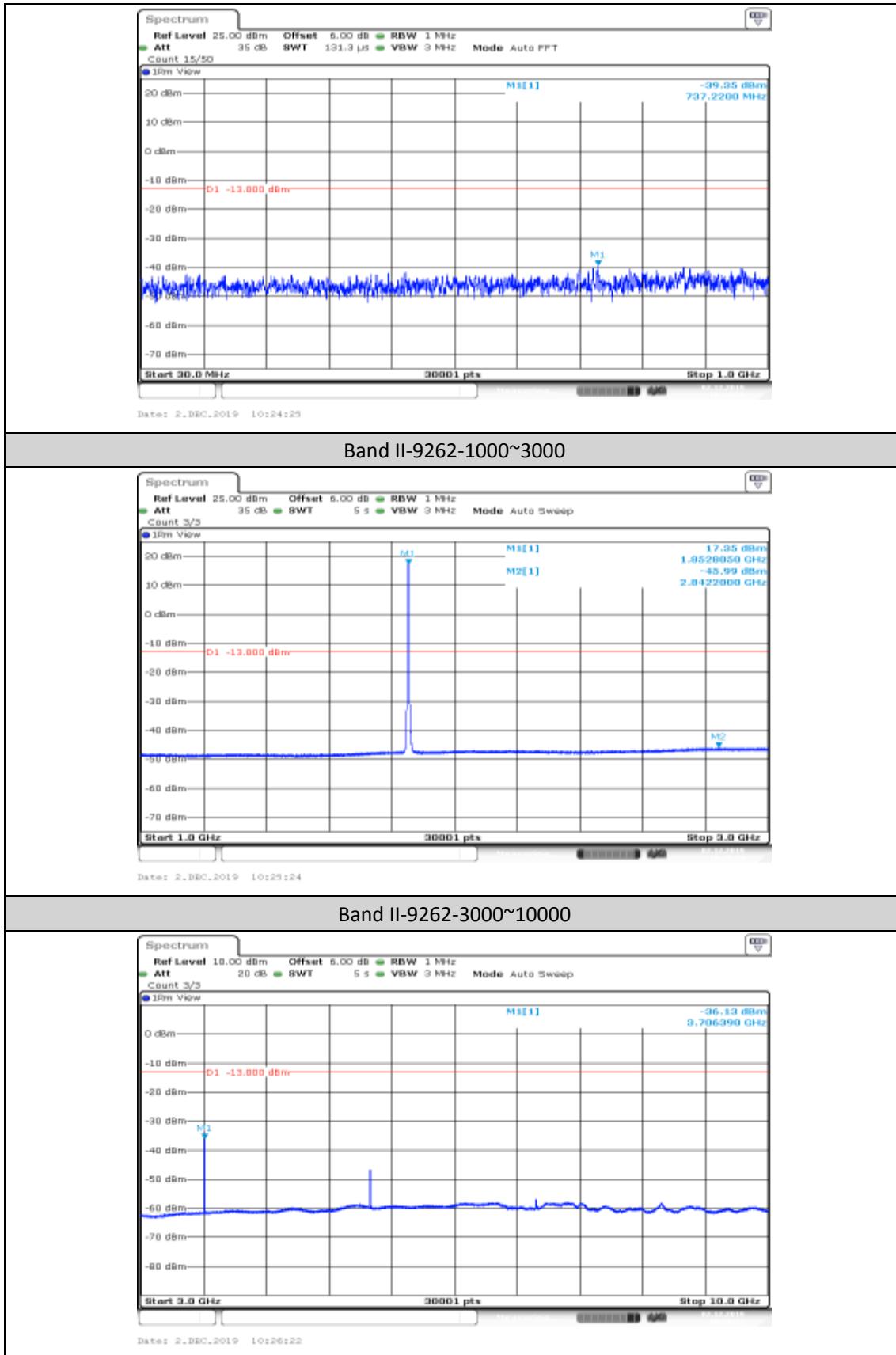
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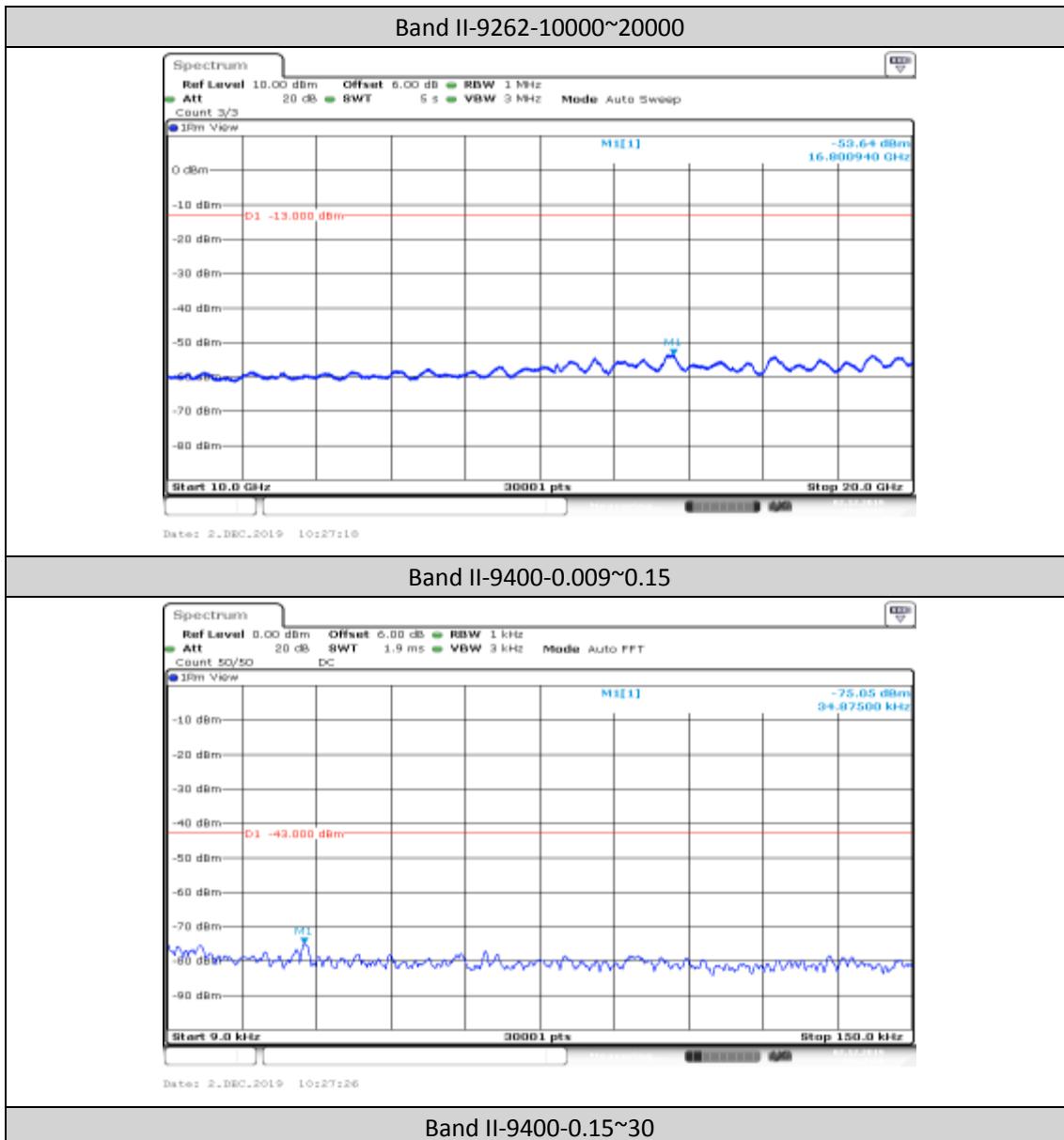
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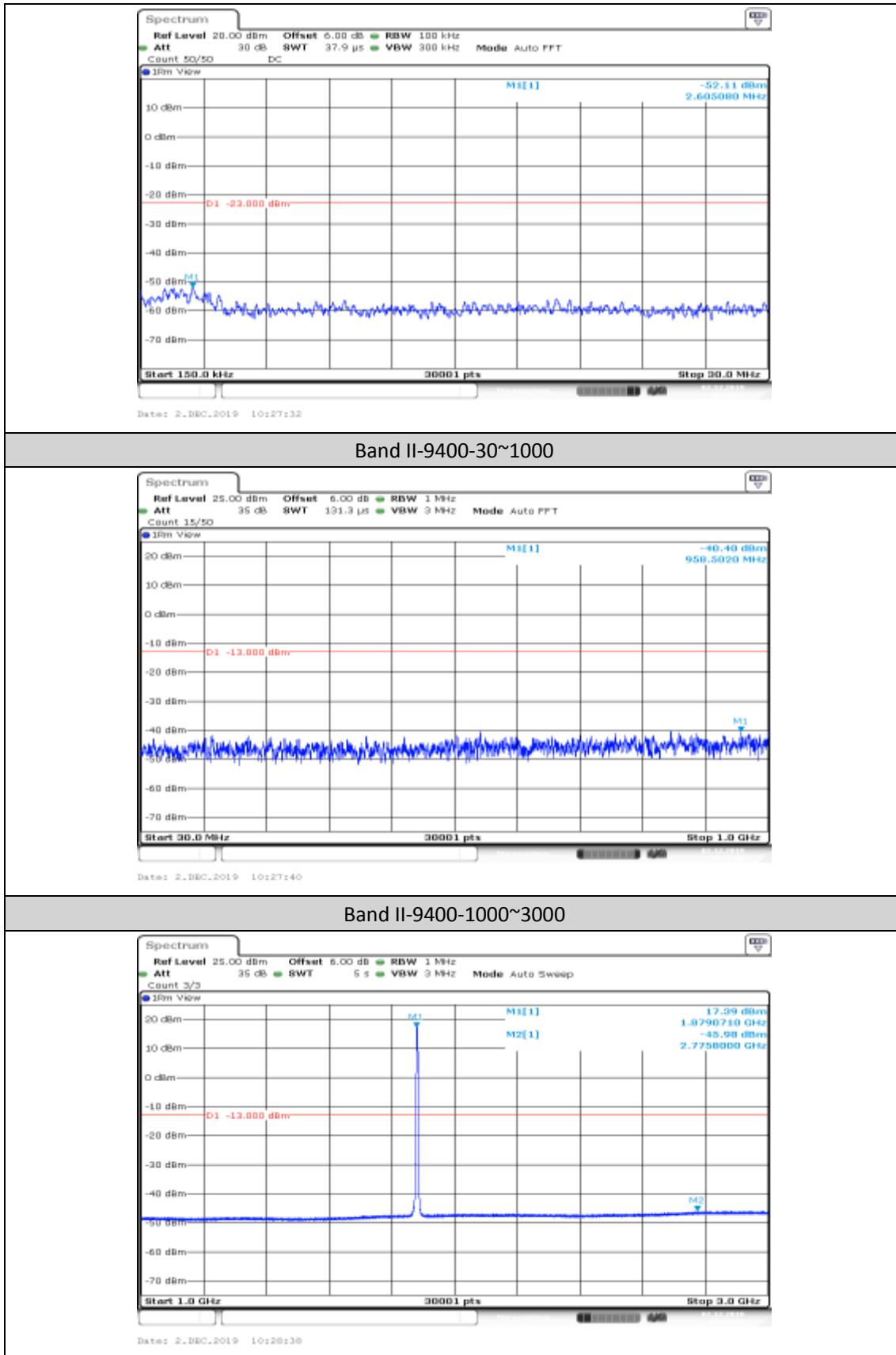
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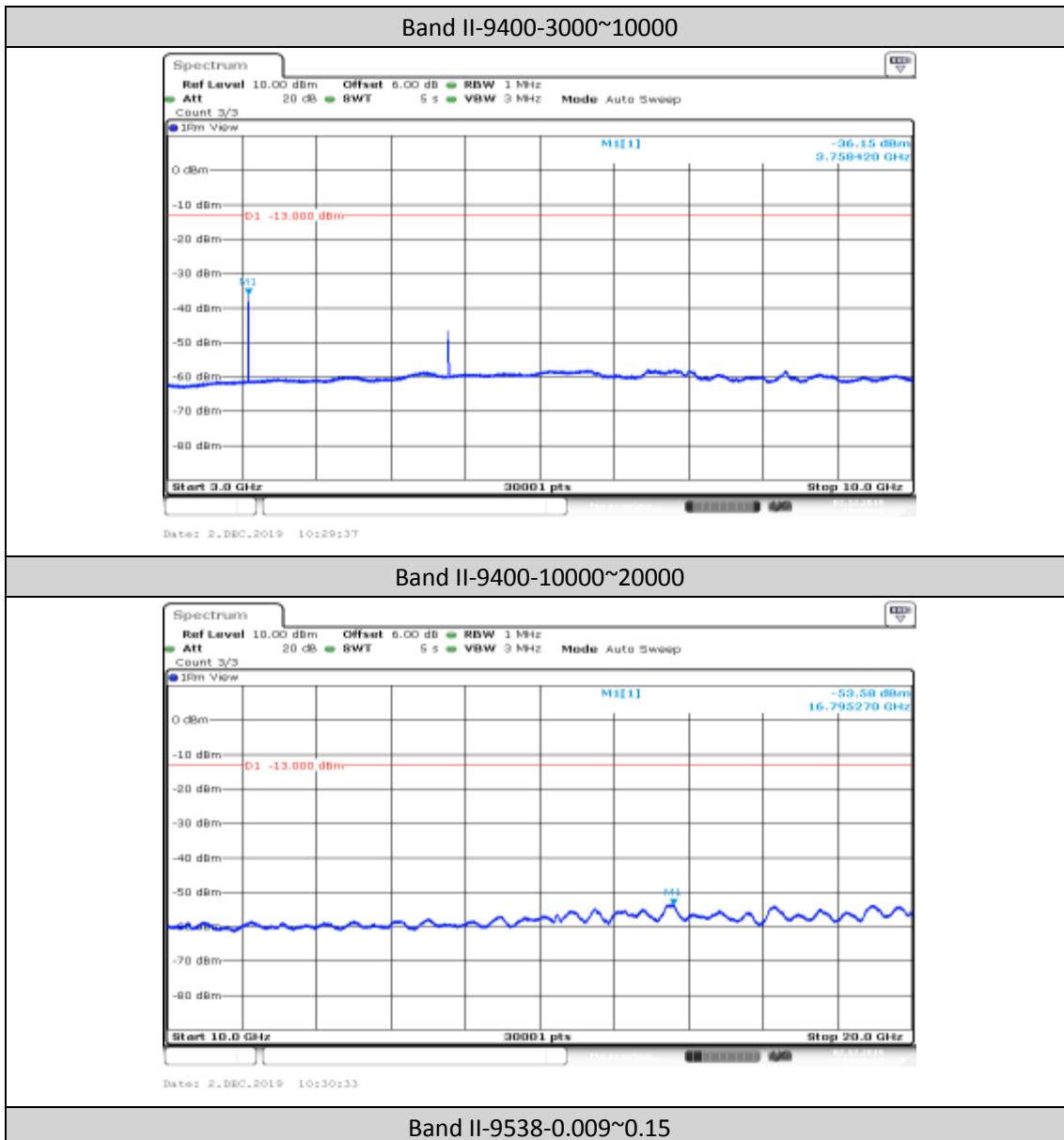
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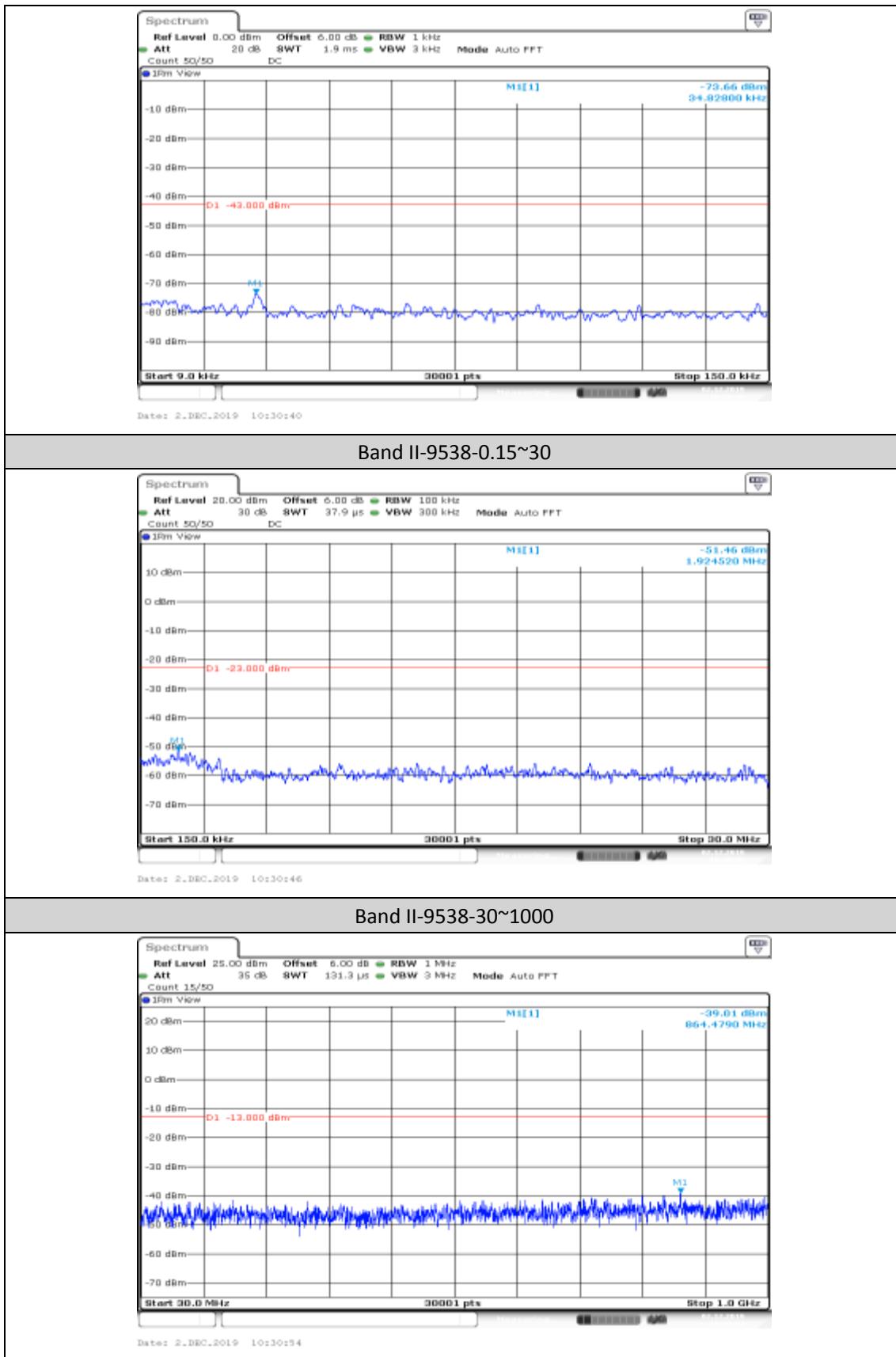
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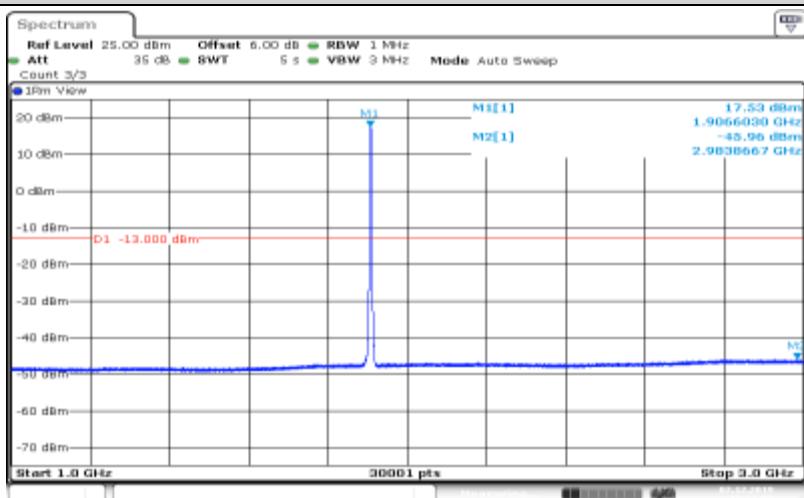
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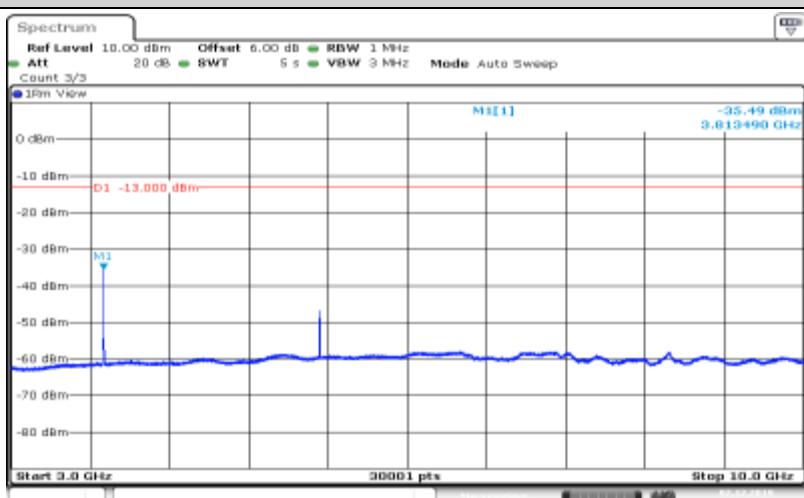


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Band II-9538-1000~3000



Band II-9538-3000~10000



Band II-9538-10000~20000

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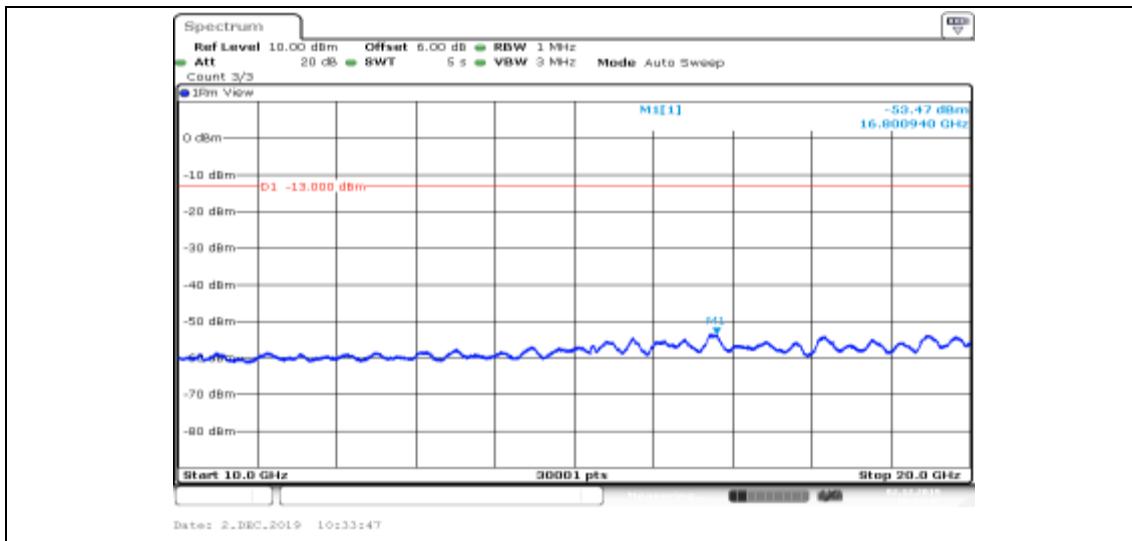
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

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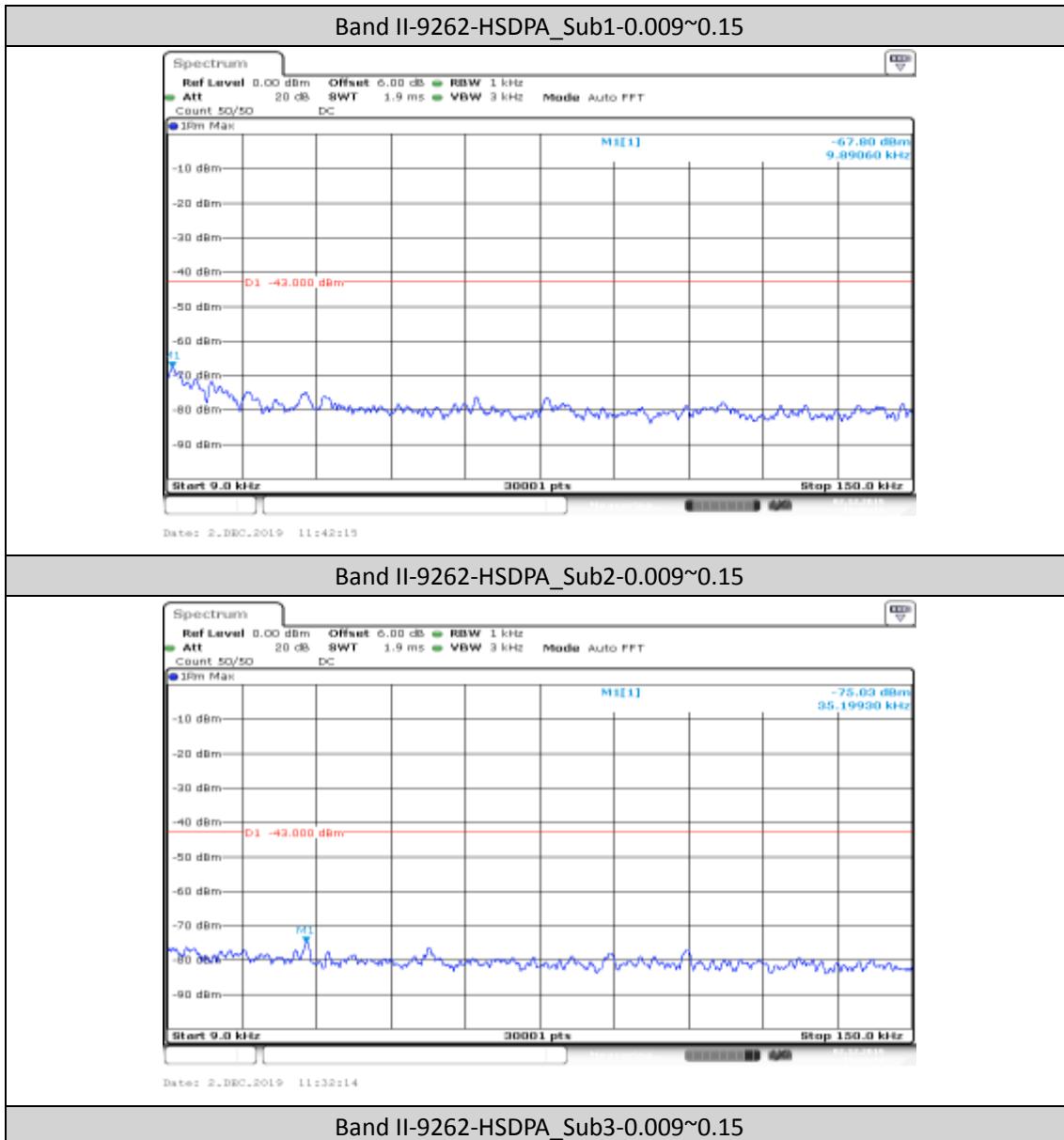
CTC Laboratories, Inc.

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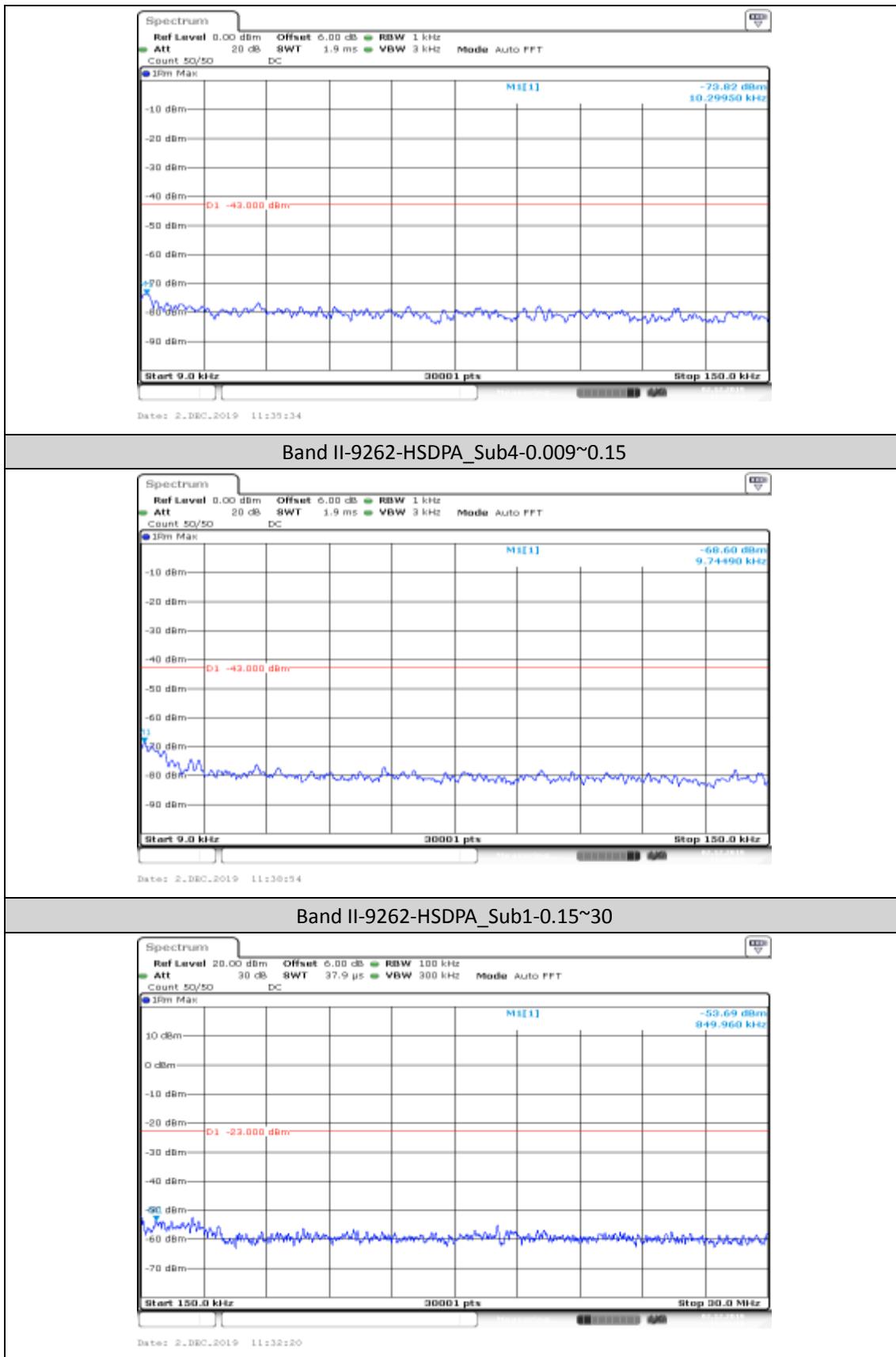
HSDPA:

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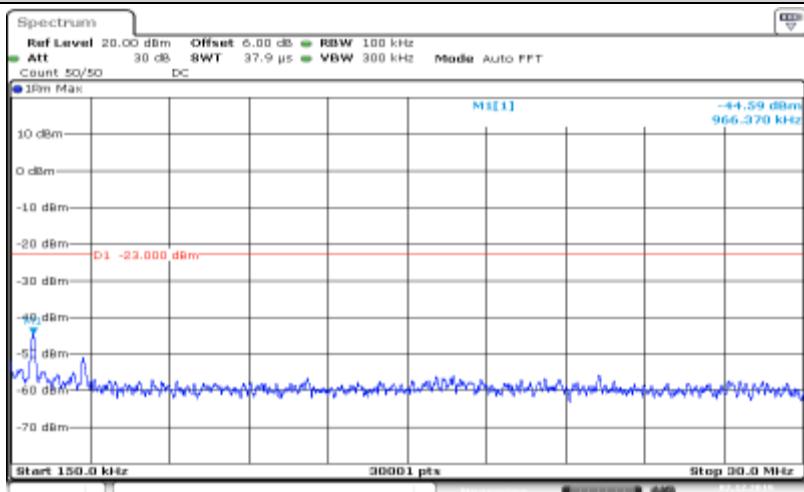
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

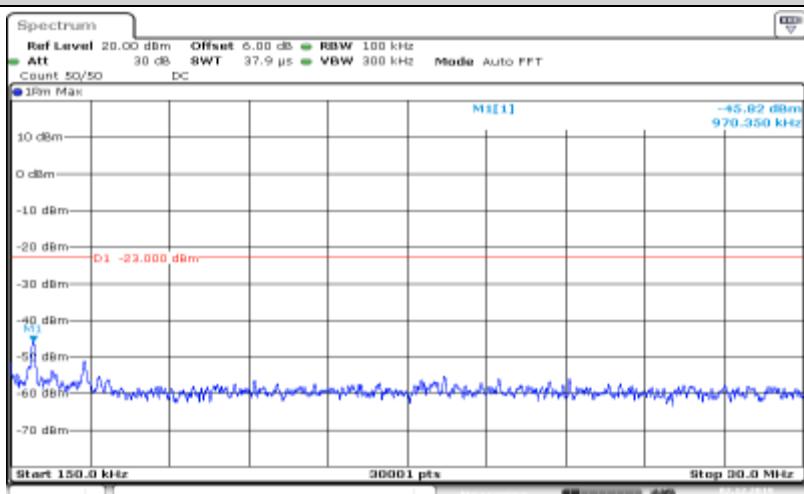
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Band II-9262-HSDPA_Sub2-0.15~30



Band II-9262-HSDPA_Sub3-0.15~30



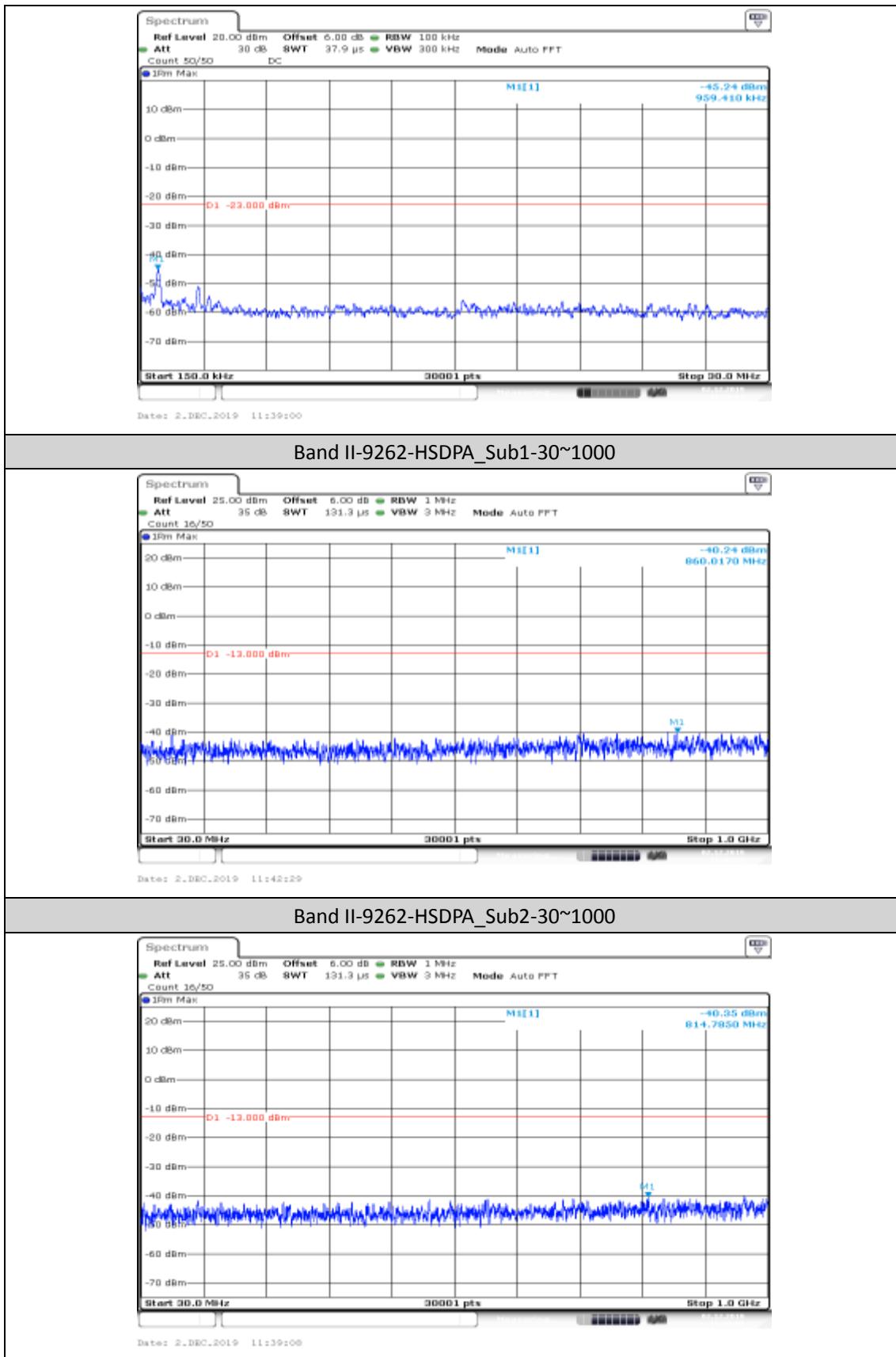
Band II-9262-HSDPA_Sub4-0.15~30

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2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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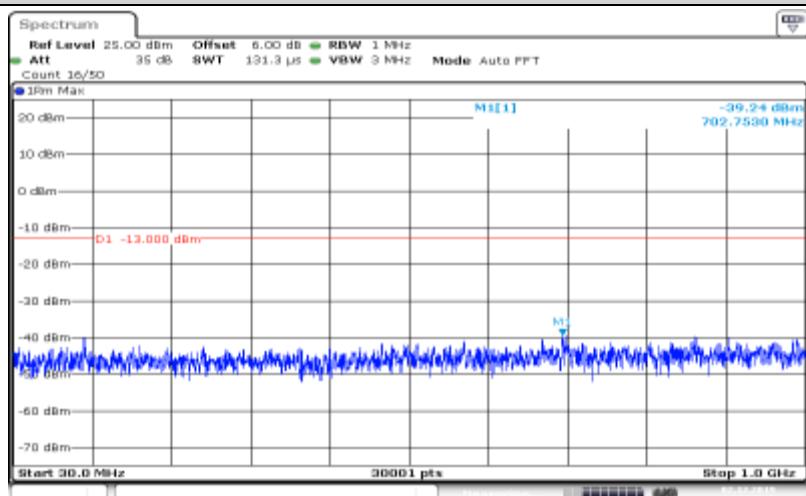
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059 Fax: (86)755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)

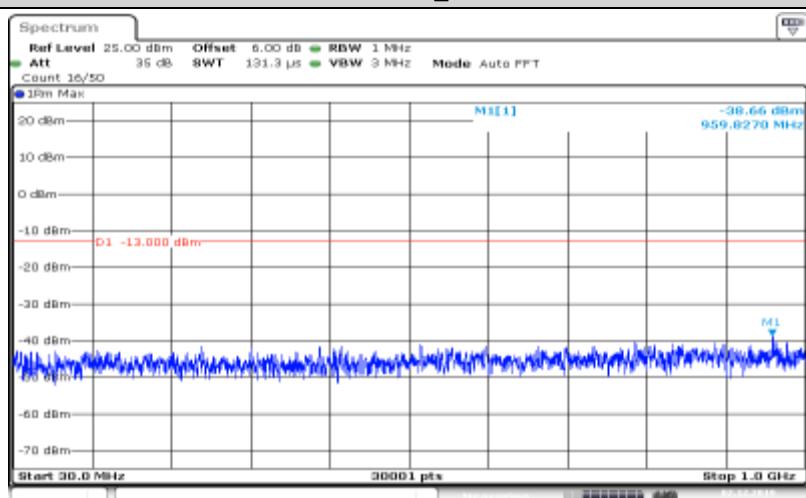


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Band II-9262-HSDPA_Sub3-30~1000



Band II-9262-HSDPA_Sub4-30~1000



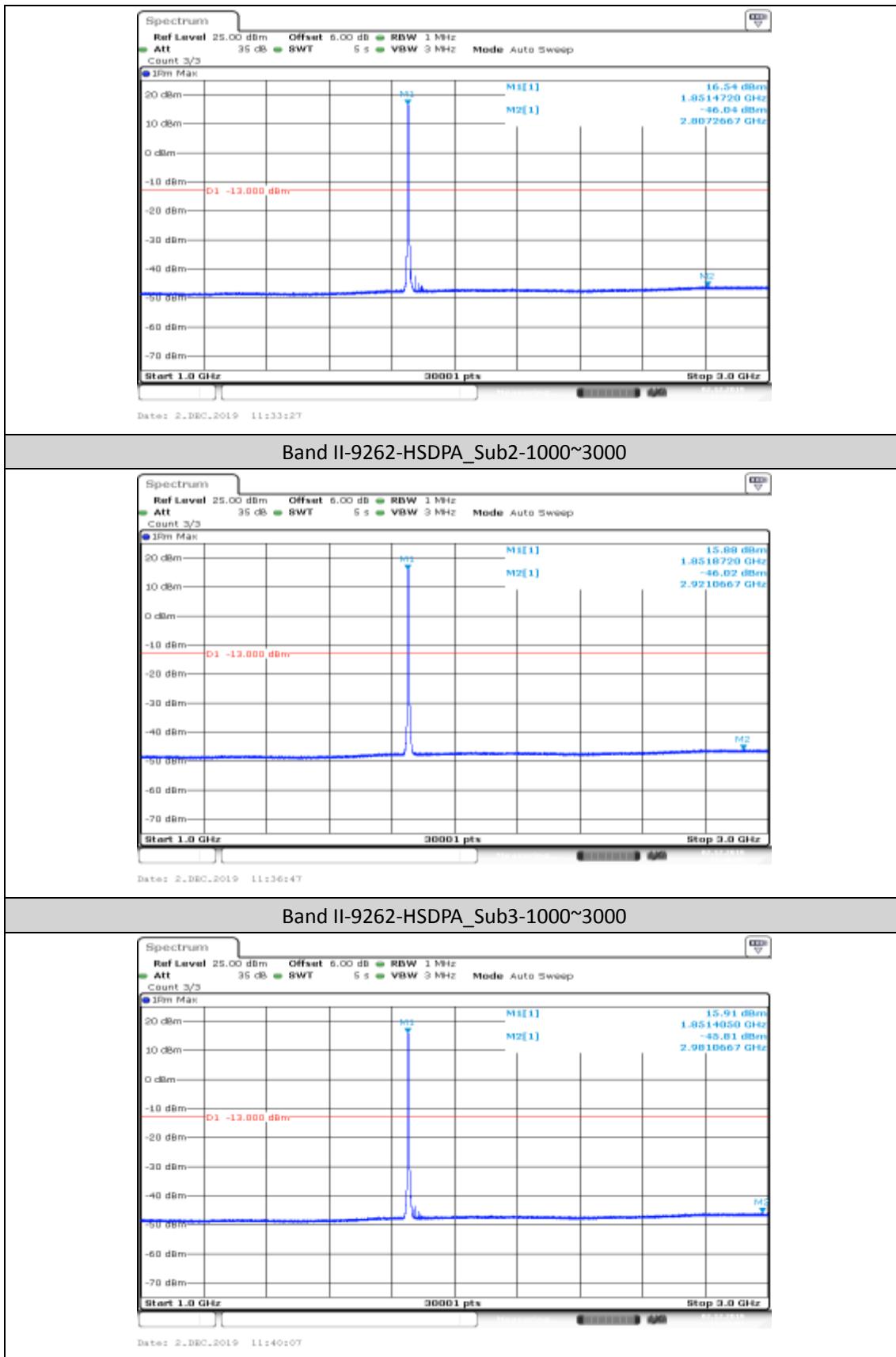
Band II-9262-HSDPA_Sub1-1000~3000

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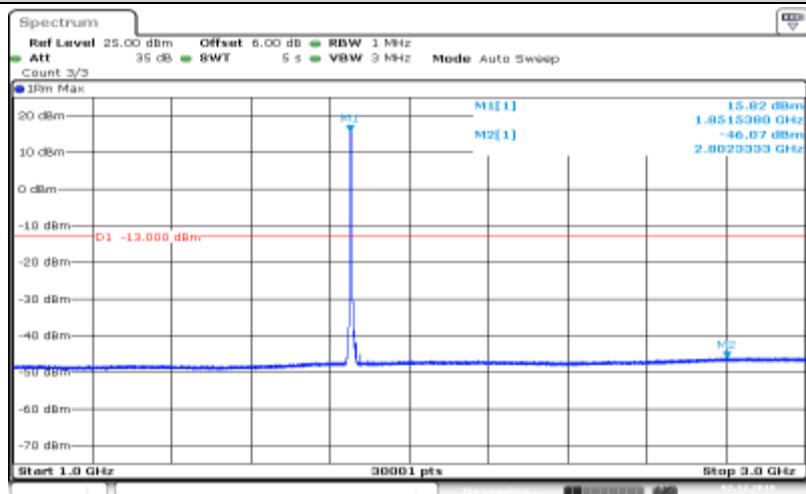
Tel.: (86)755-27521059

Fax: (86)755-27521011

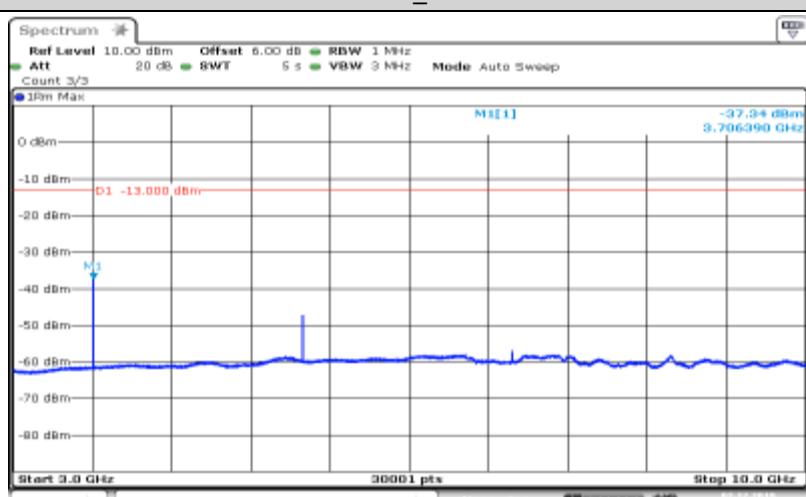
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Band II-9262-HSDPA_Sub4-1000~3000



Band II-9262-HSDPA_Sub1-3000~10000



Band II-9262-HSDPA_Sub2-3000~10000

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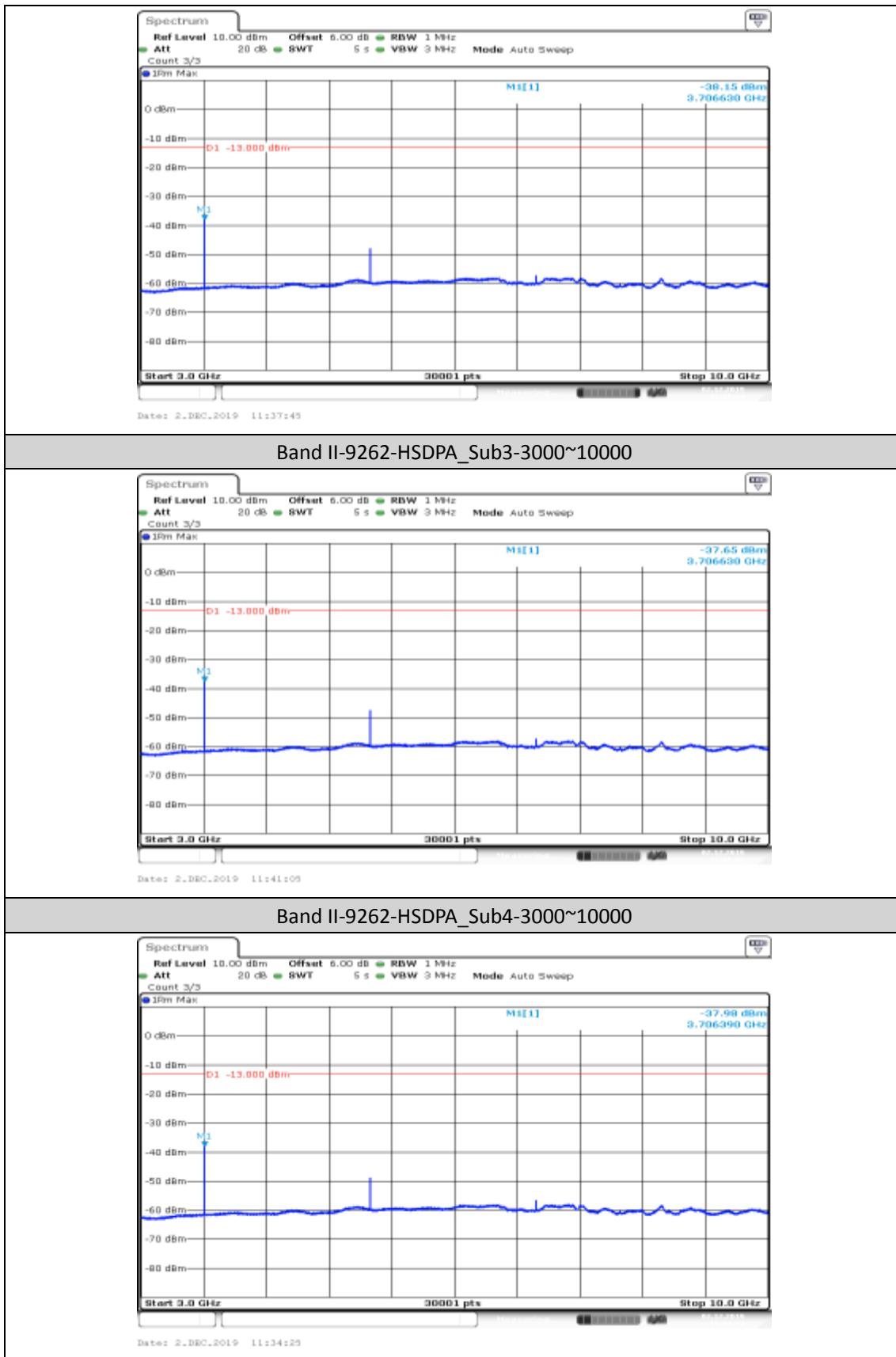
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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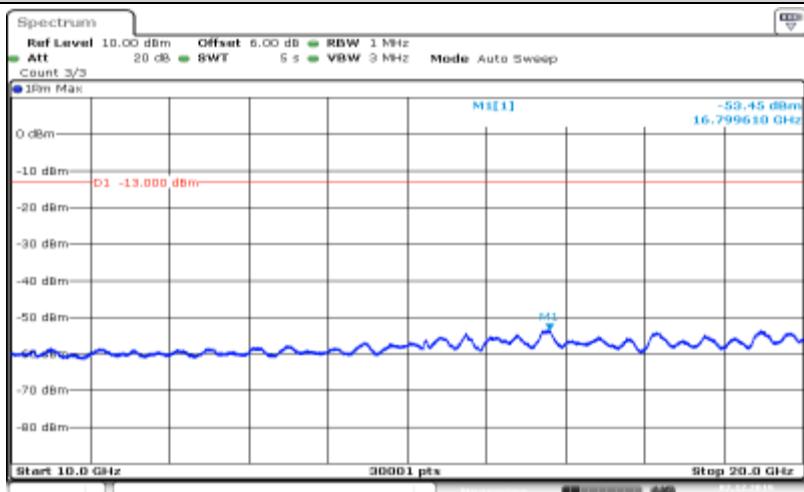
Tel.: (86)755-27521059

Fax: (86)755-27521011

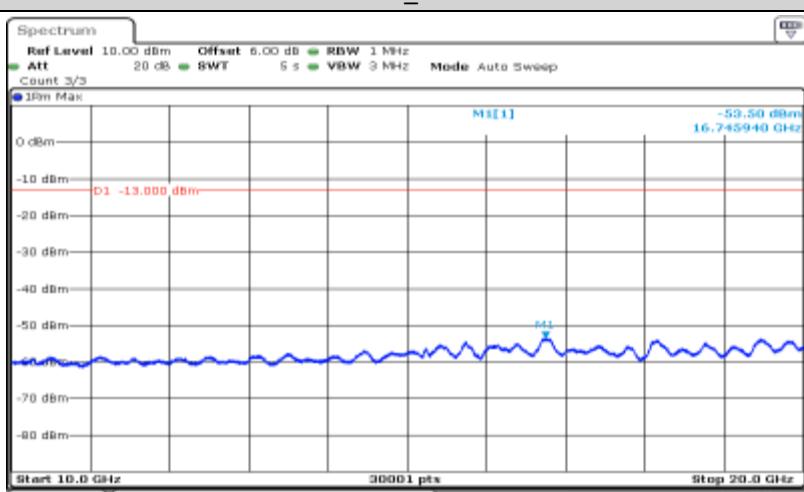
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Band II-9262-HSDPA_Sub1-10000~20000



Band II-9262-HSDPA_Sub2-10000~20000



Band II-9262-HSDPA_Sub3-10000~20000

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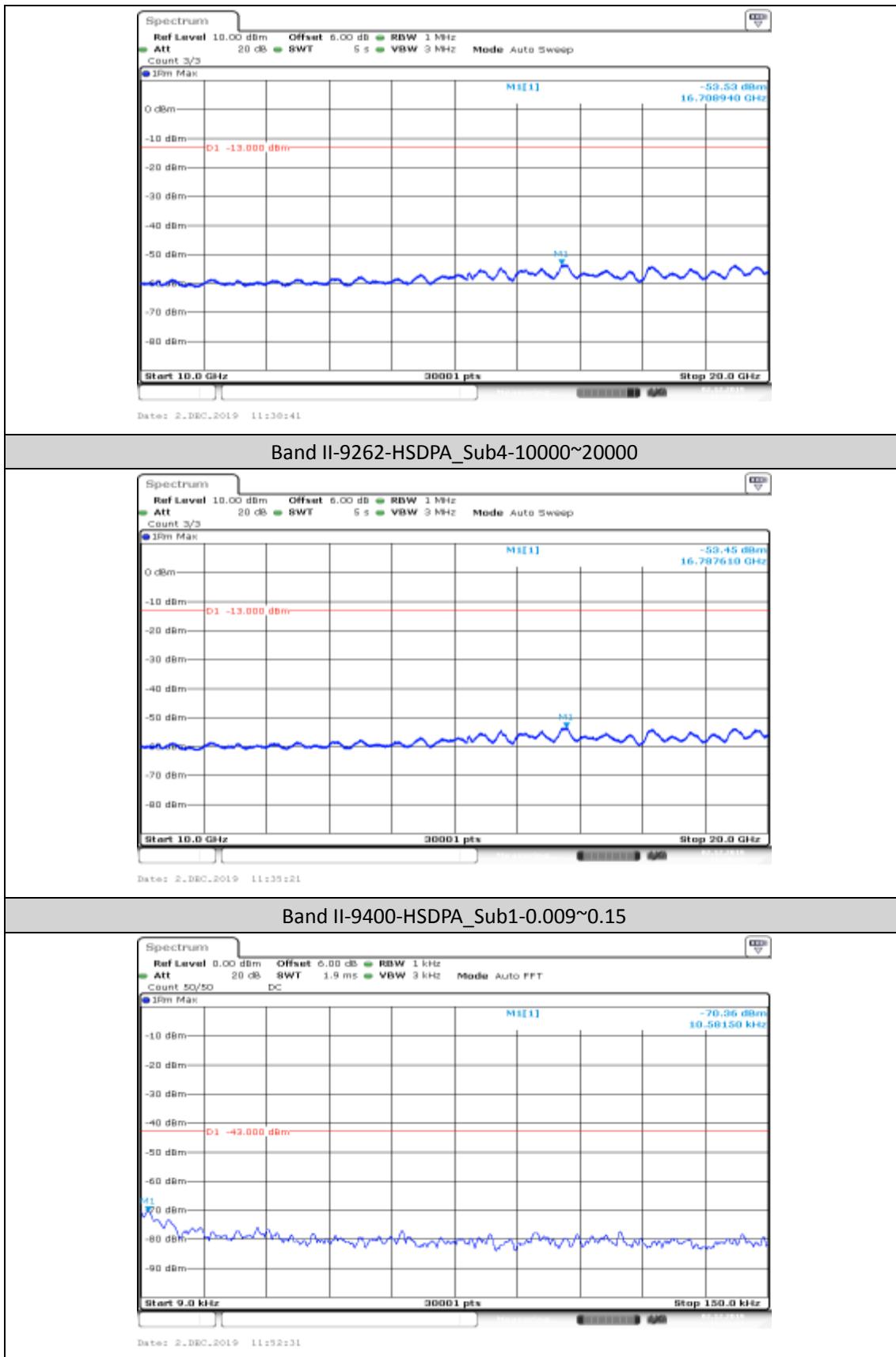
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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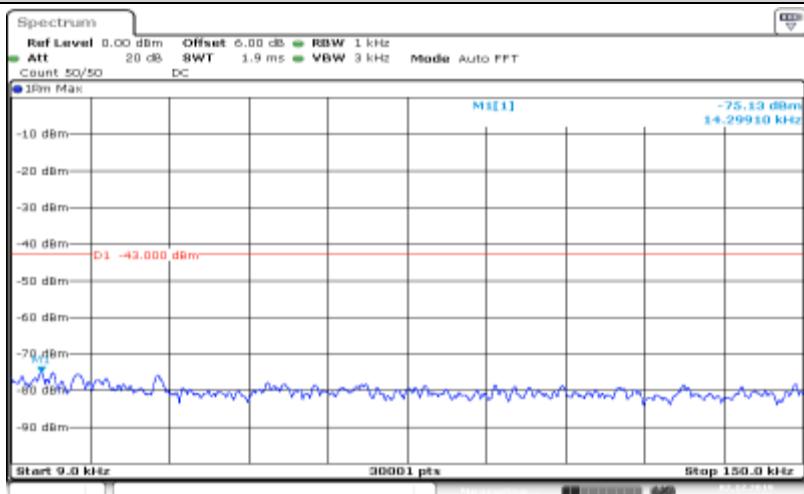
Tel.: (86)755-27521059

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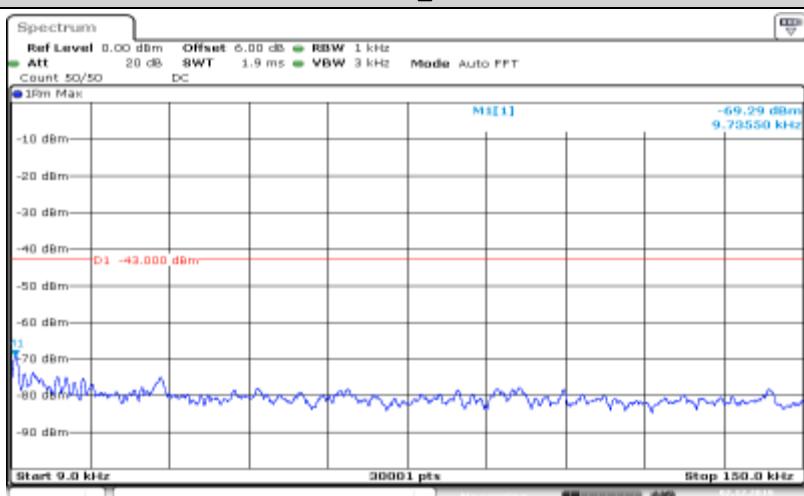
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Band II-9400-HSDPA_Sub2-0.009~0.15



Band II-9400-HSDPA_Sub3-0.009~0.15



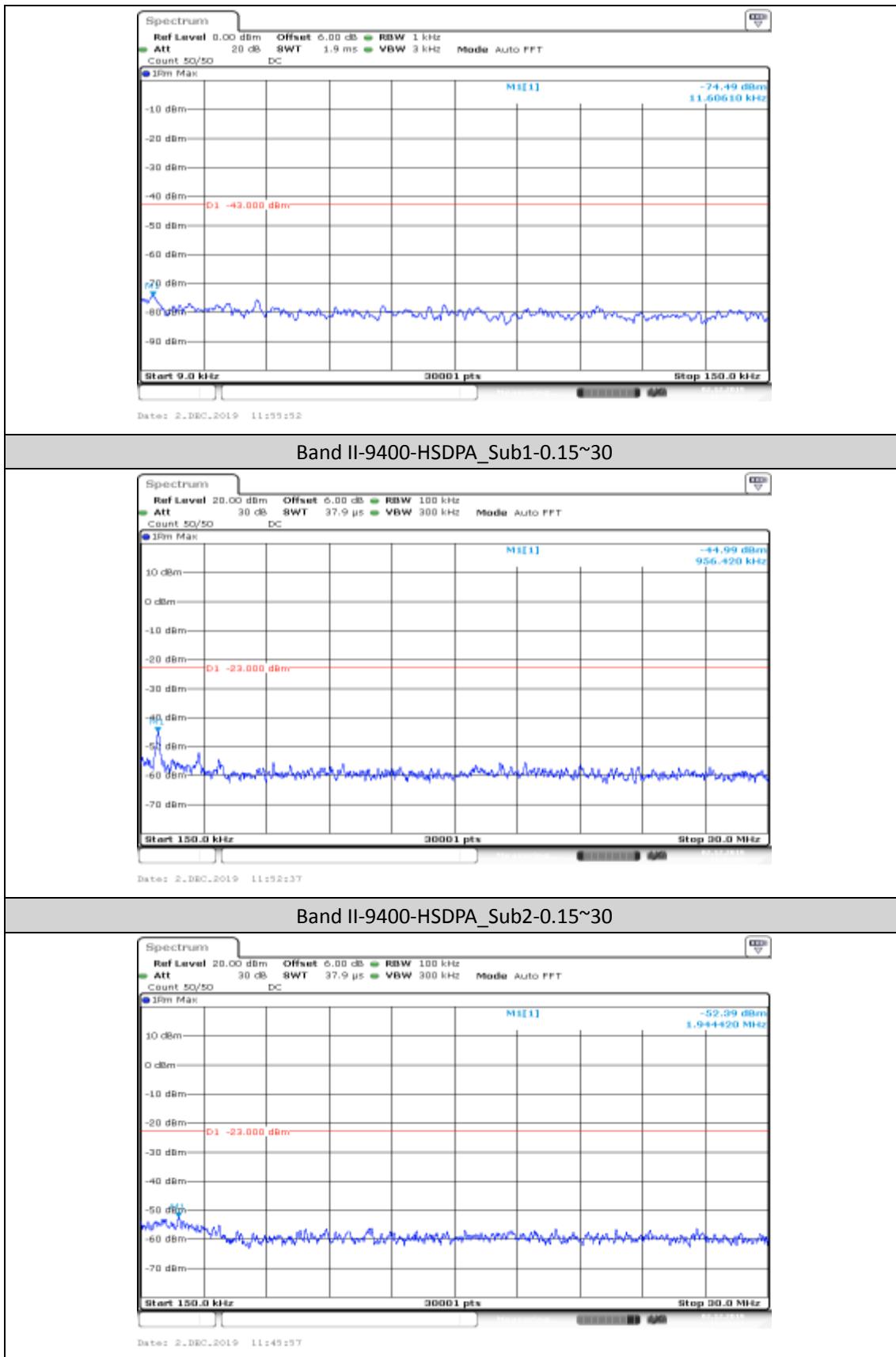
Band II-9400-HSDPA_Sub4-0.009~0.15

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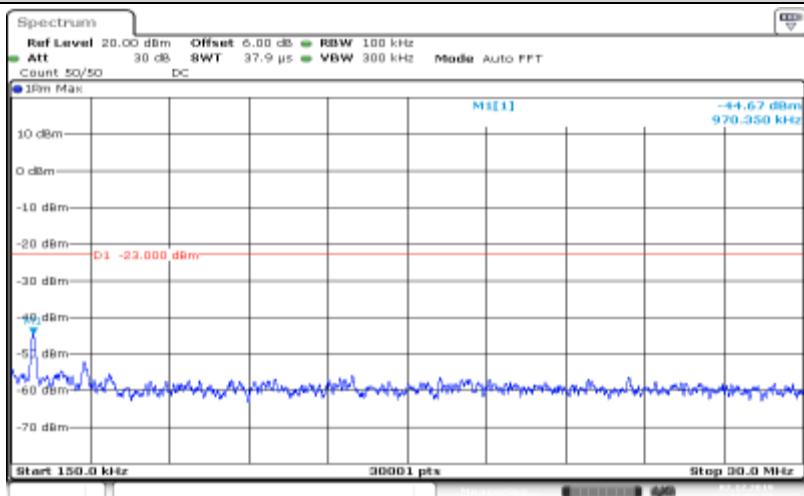
Tel.: (86)755-27521059

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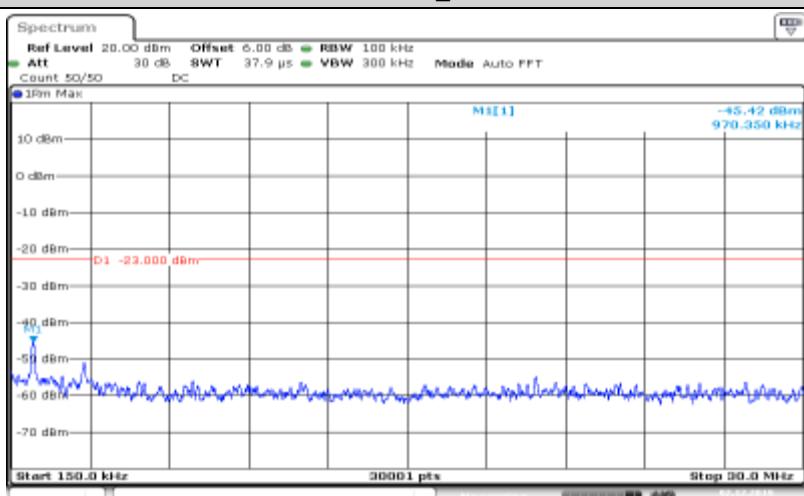
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Band II-9400-HSDPA_Sub3-0.15~30



Band II-9400-HSDPA_Sub4-0.15~30



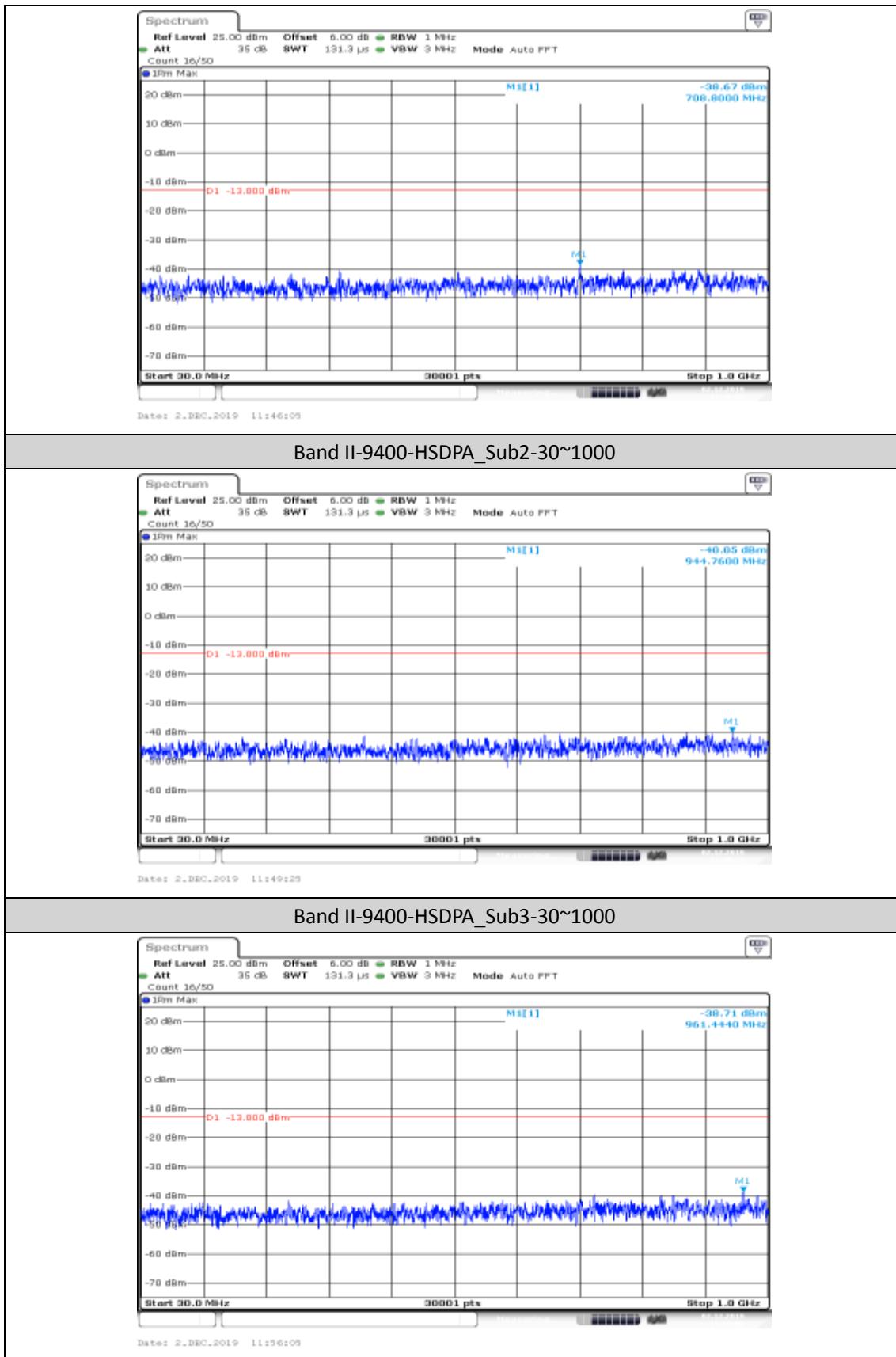
Band II-9400-HSDPA_Sub1-30~1000

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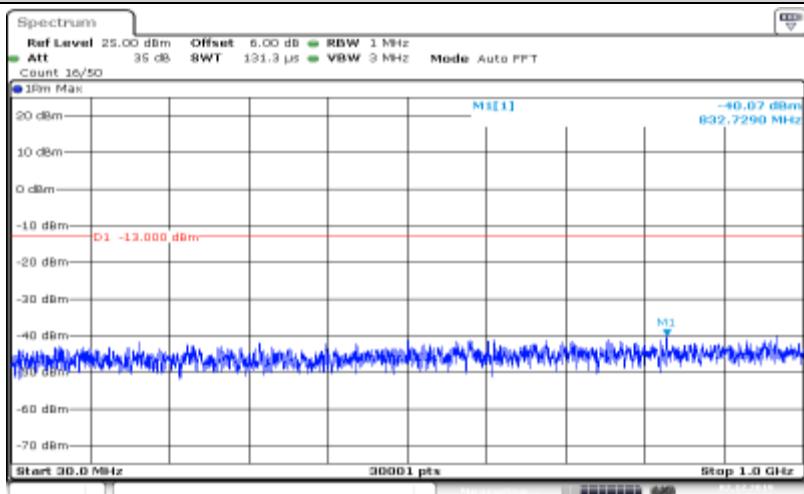
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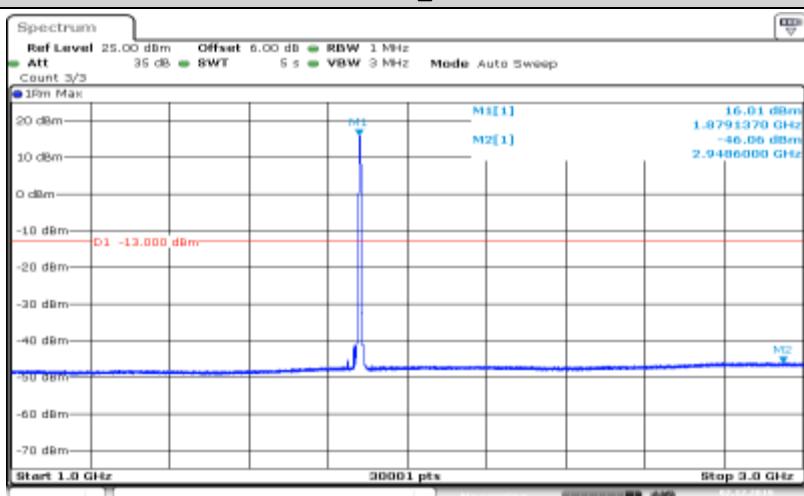
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Band II-9400-HSDPA_Sub4-30~1000



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Band II-9400-HSDPA_Sub1-1000~3000



Date: 2.DEC.2019 11:53:44

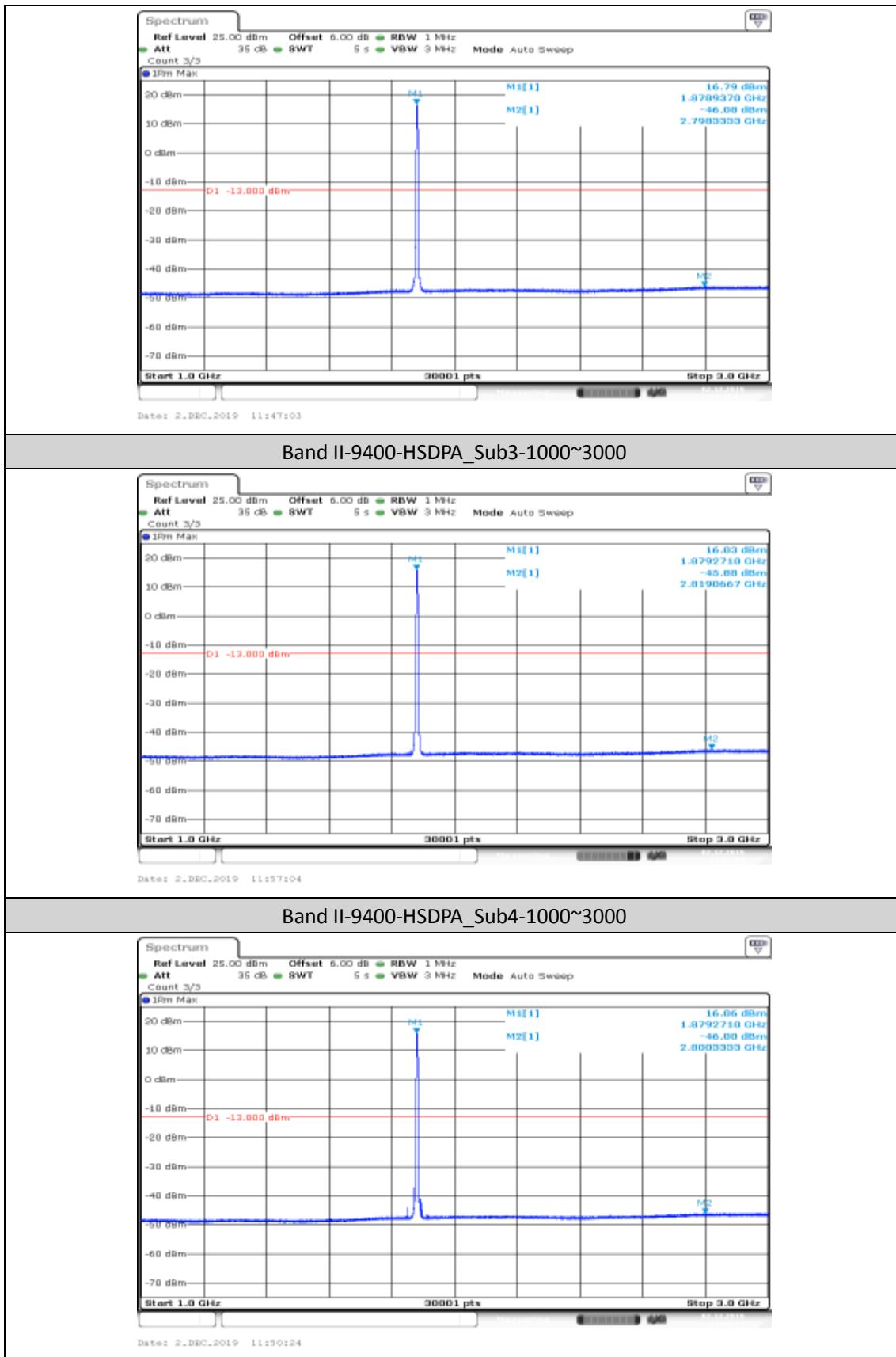
Band II-9400-HSDPA_Sub2-1000~3000

CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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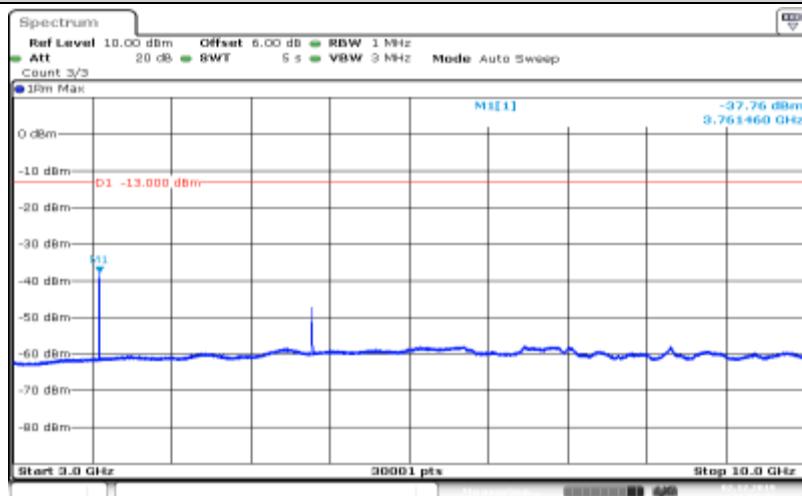
Tel.: (86)755-27521059

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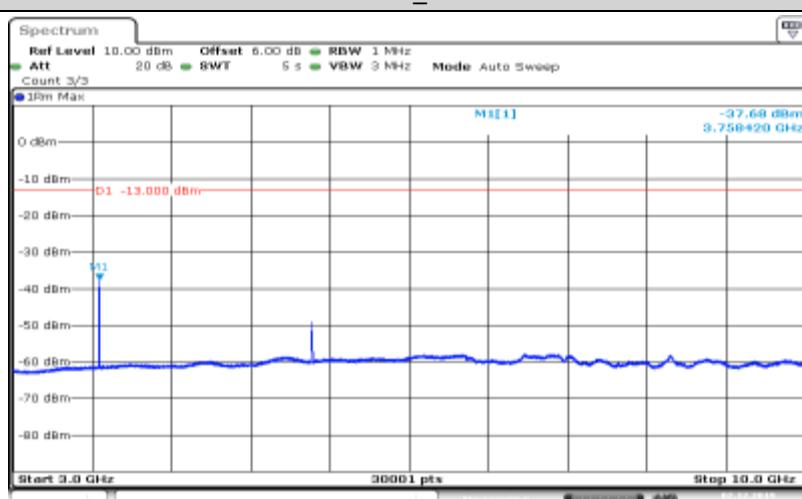
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Band II-9400-HSDPA_Sub1-3000~10000



Band II-9400-HSDPA_Sub2-3000~10000



Band II-9400-HSDPA_Sub3-3000~10000

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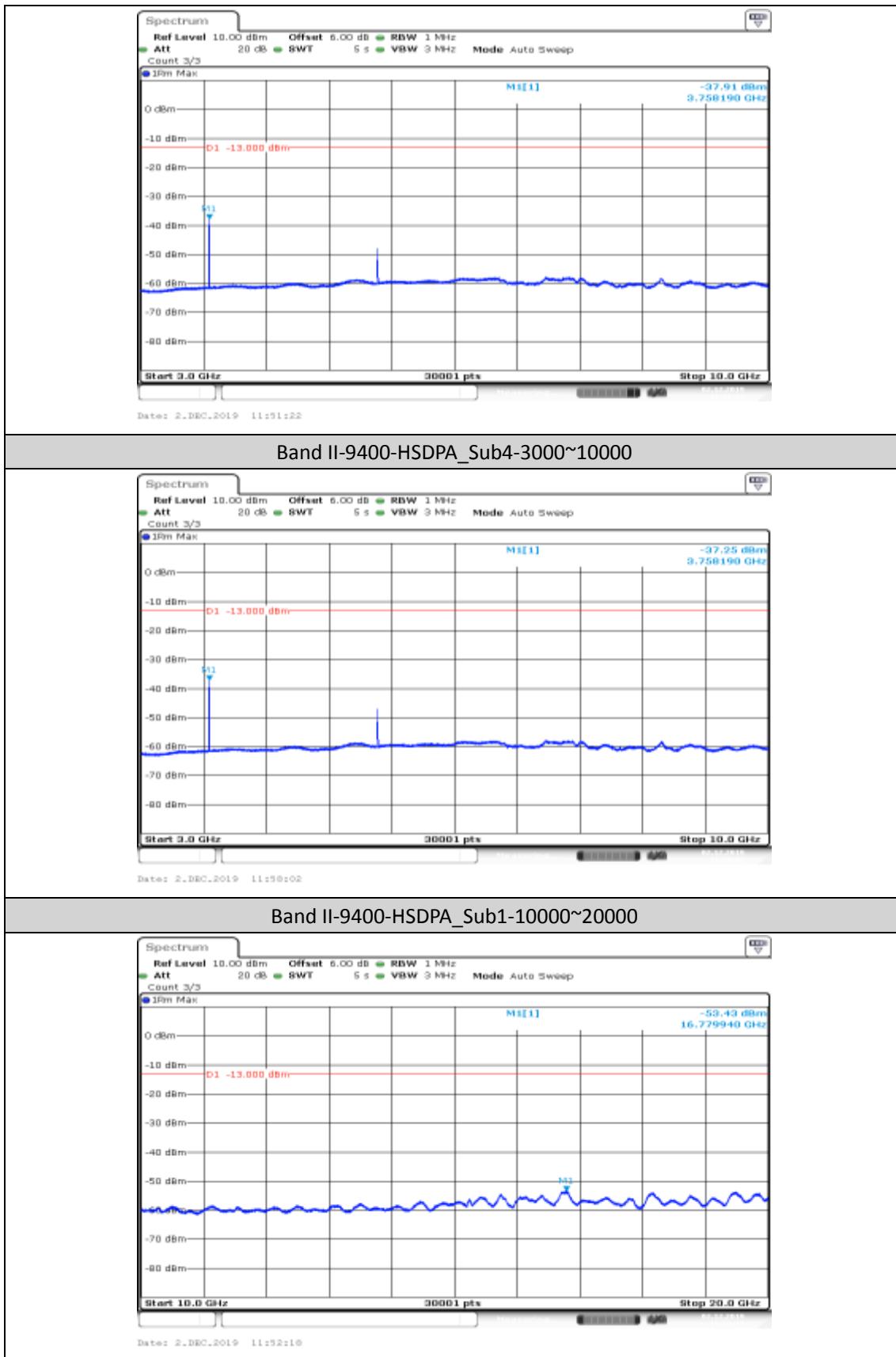
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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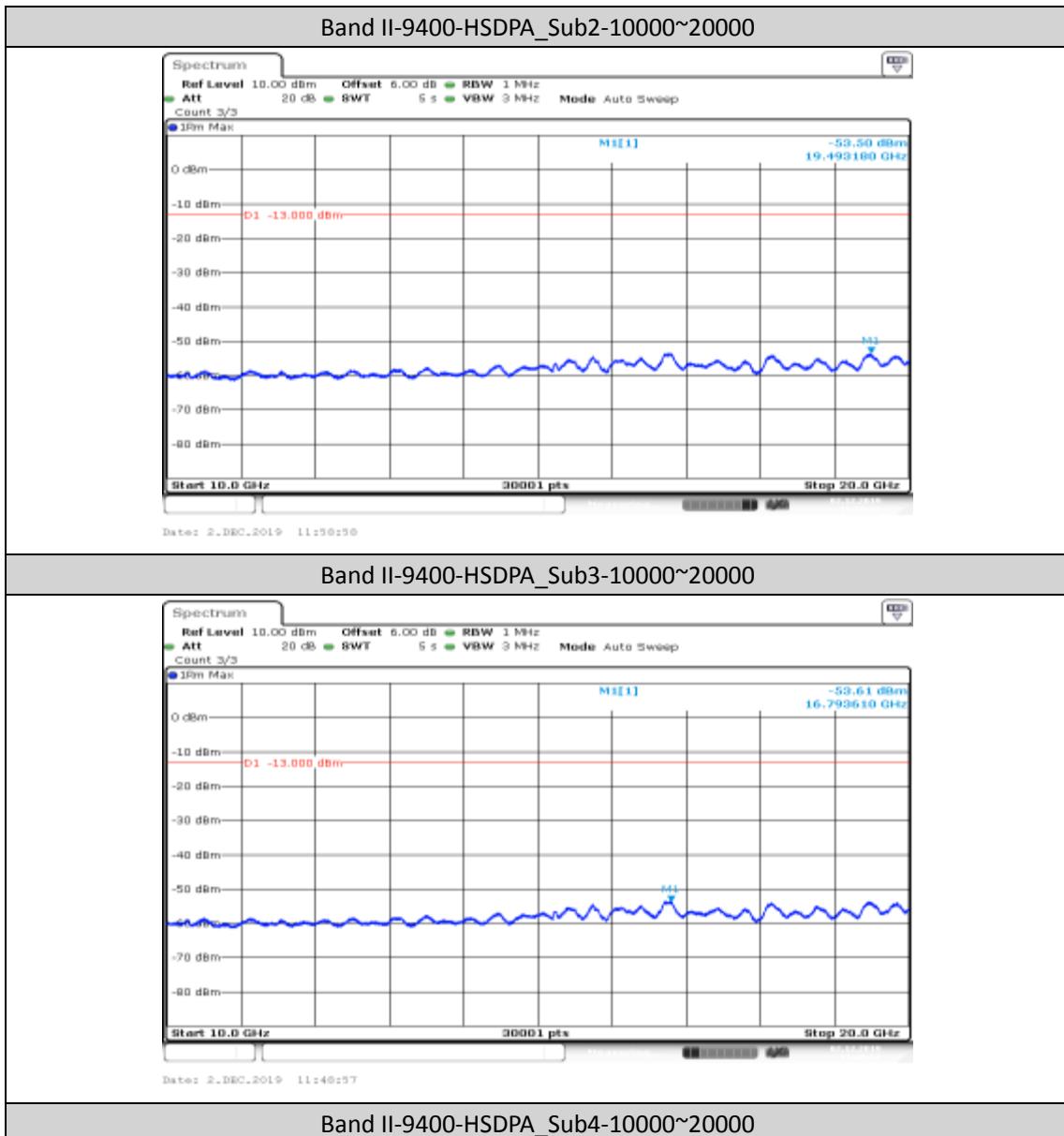
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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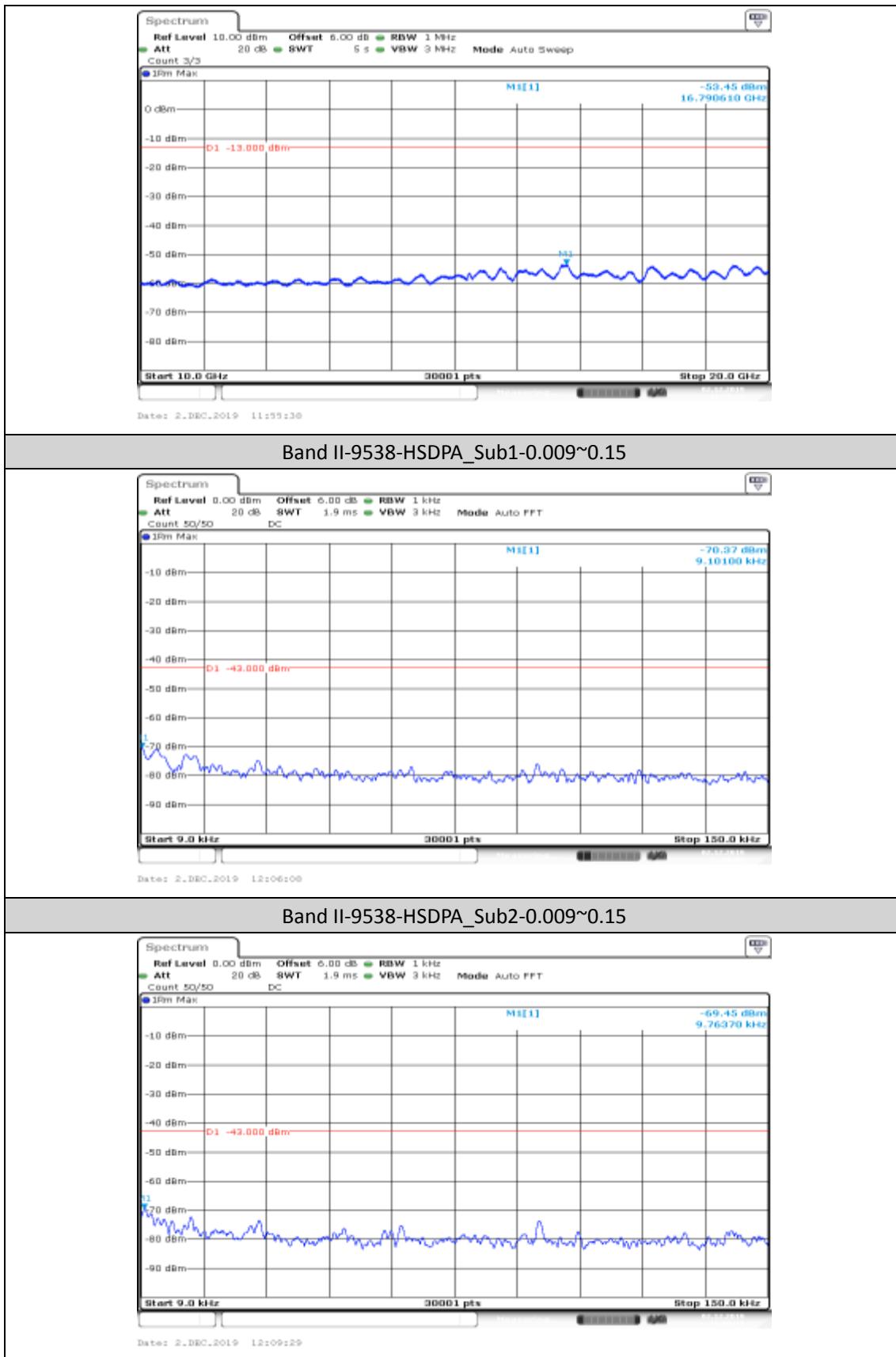
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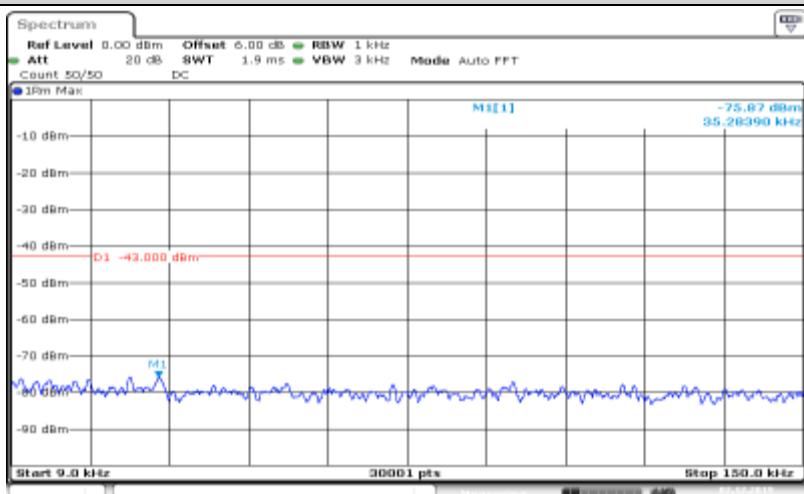
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2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

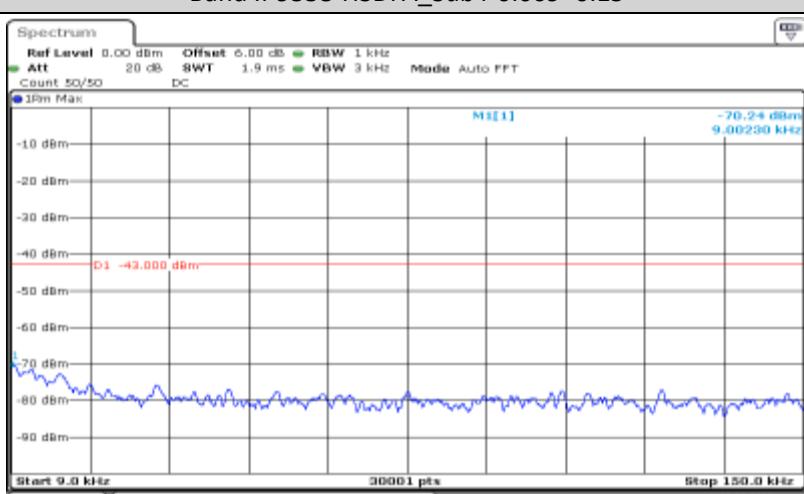
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Band II-9538-HSDPA_Sub3-0.009~0.15



Band II-9538-HSDPA_Sub4-0.009~0.15



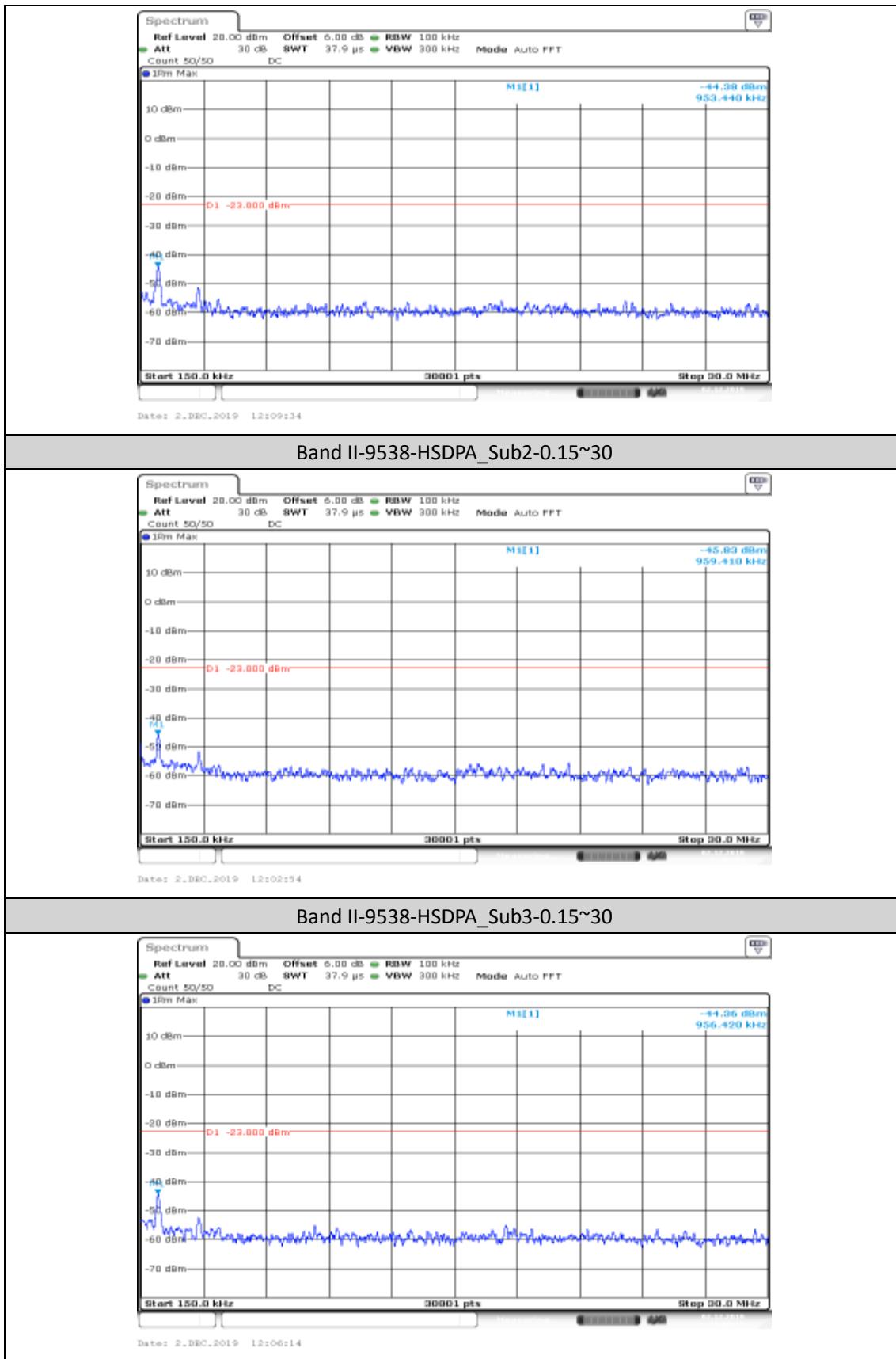
Band II-9538-HSDPA_Sub1-0.15~30

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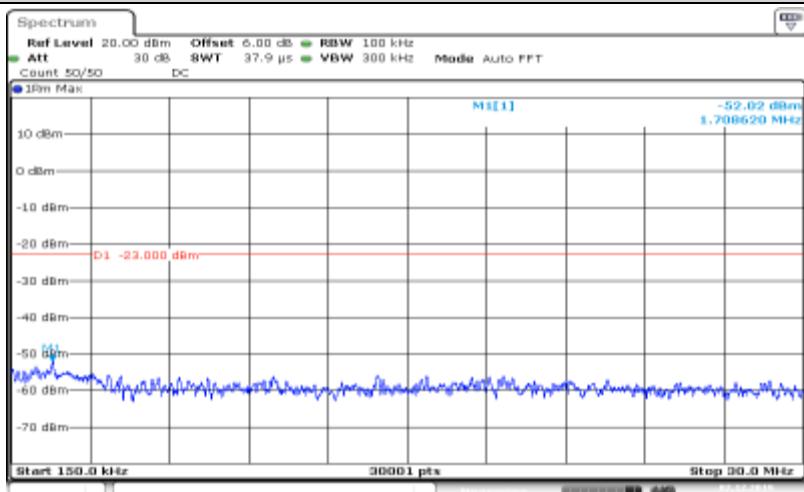
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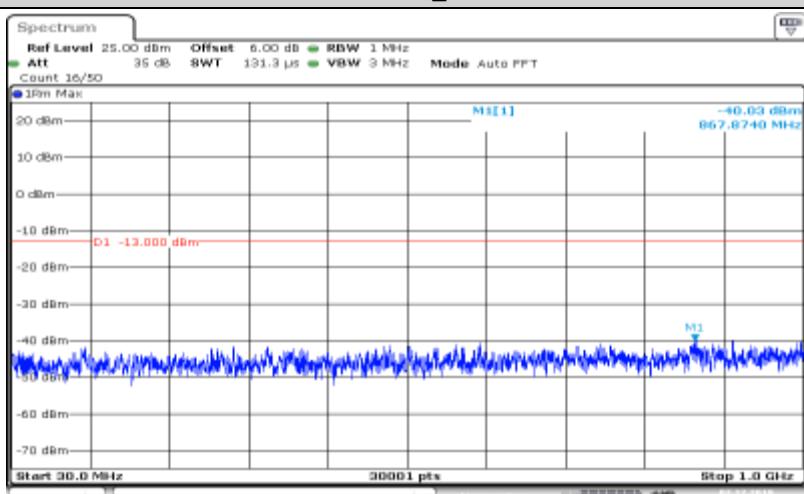
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Band II-9538-HSDPA_Sub4-0.15~30



Band II-9538-HSDPA_Sub1-30~1000



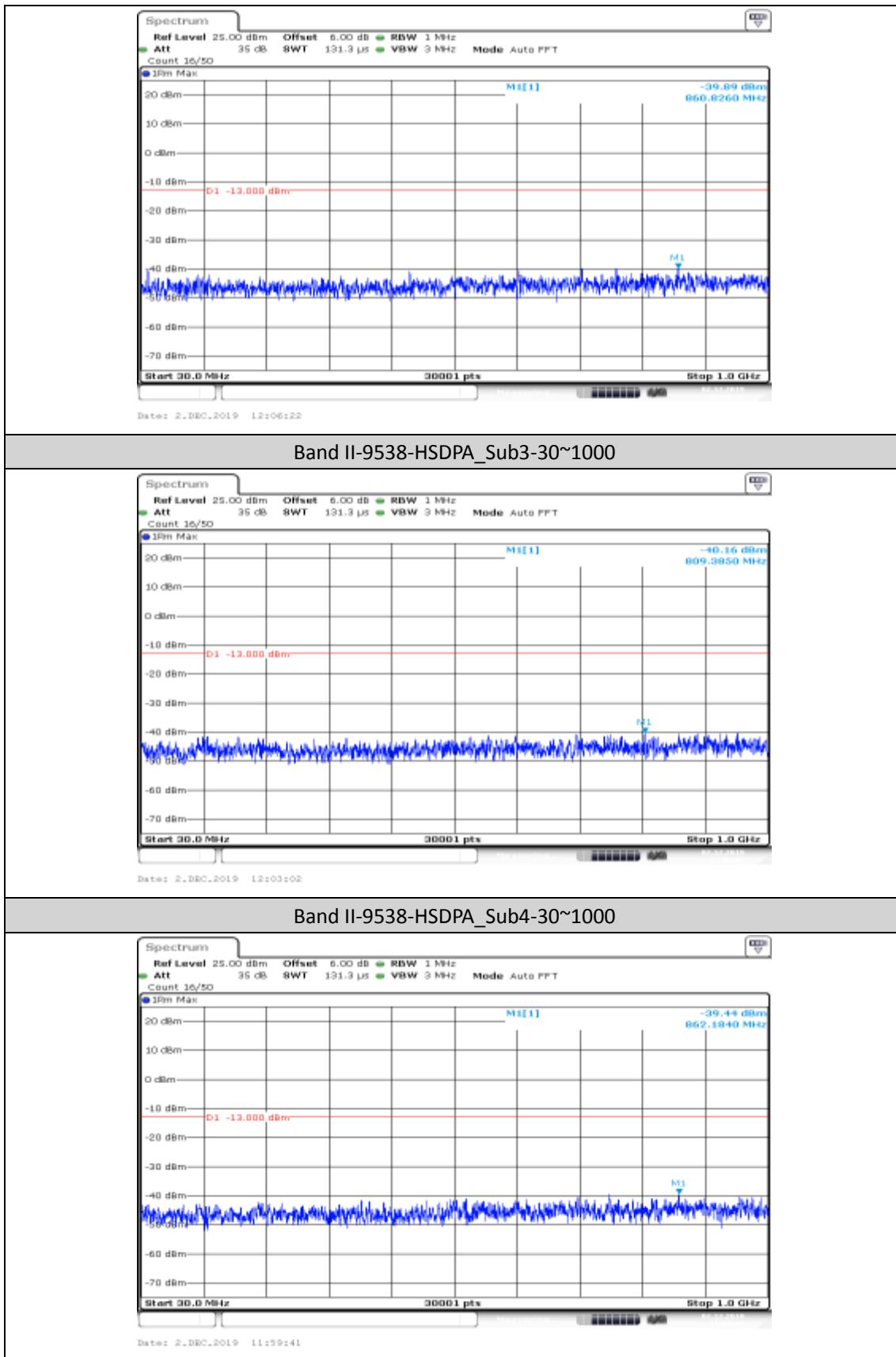
Band II-9538-HSDPA_Sub2-30~1000

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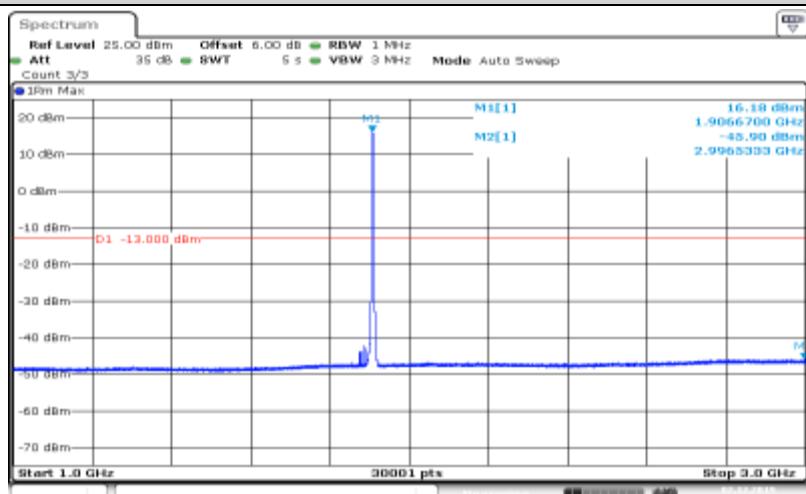
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

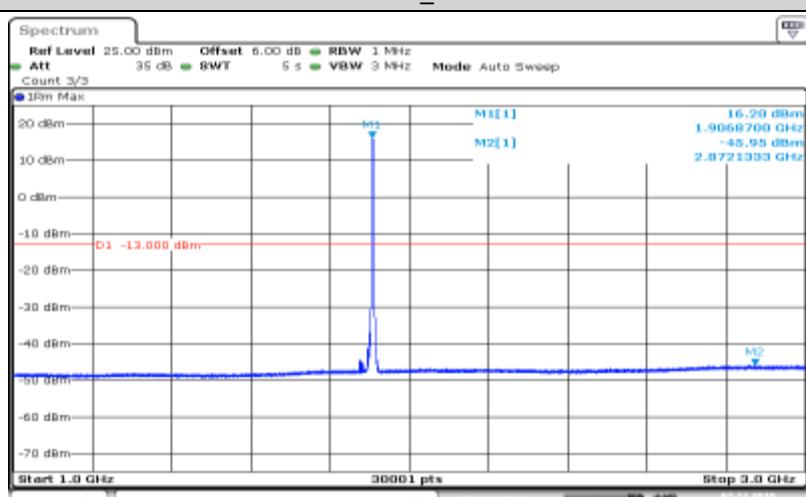


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Band II-9538-HSDPA_Sub1-1000~3000



Band II-9538-HSDPA_Sub2-1000~3000



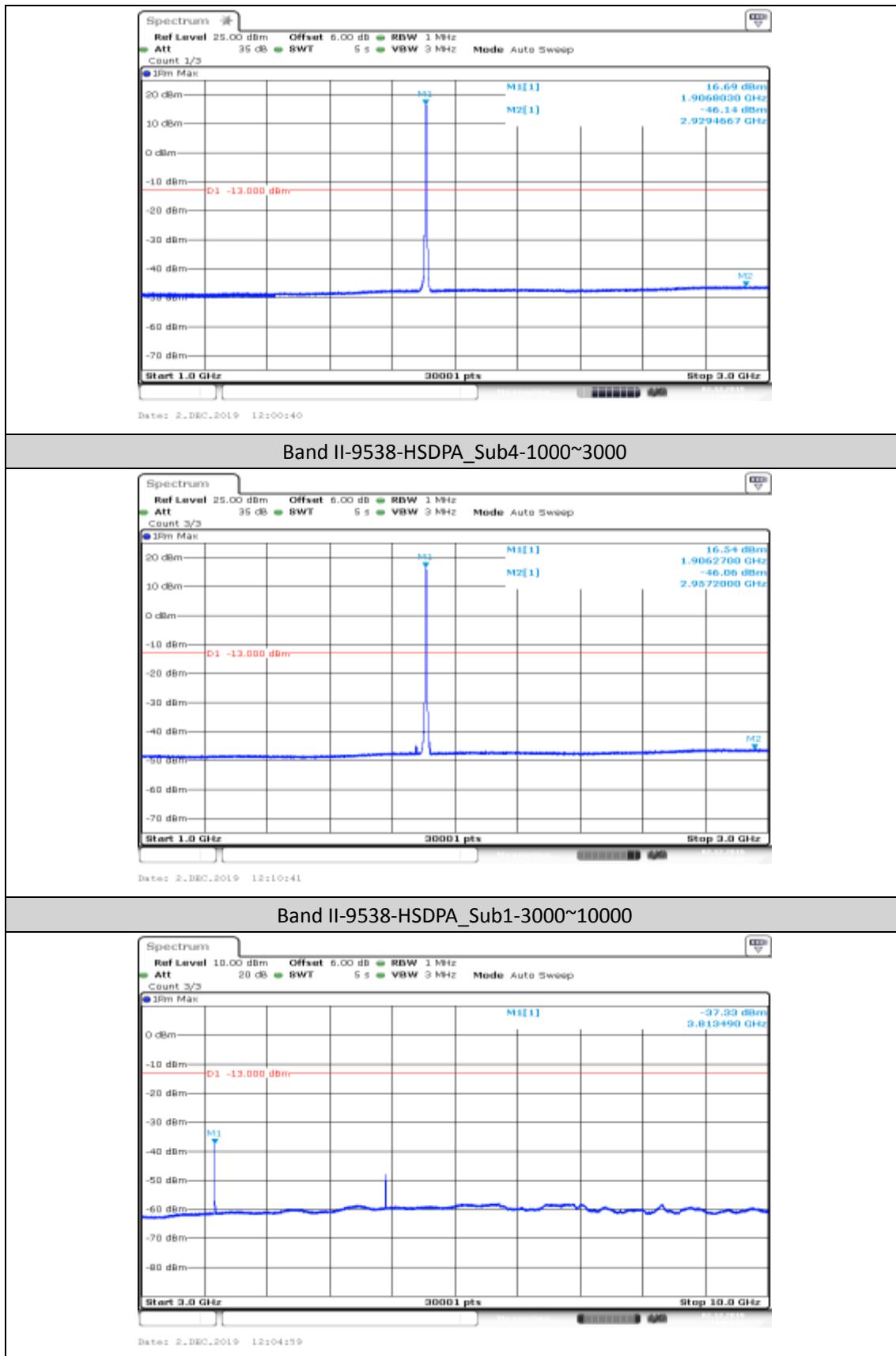
Band II-9538-HSDPA_Sub3-1000~3000

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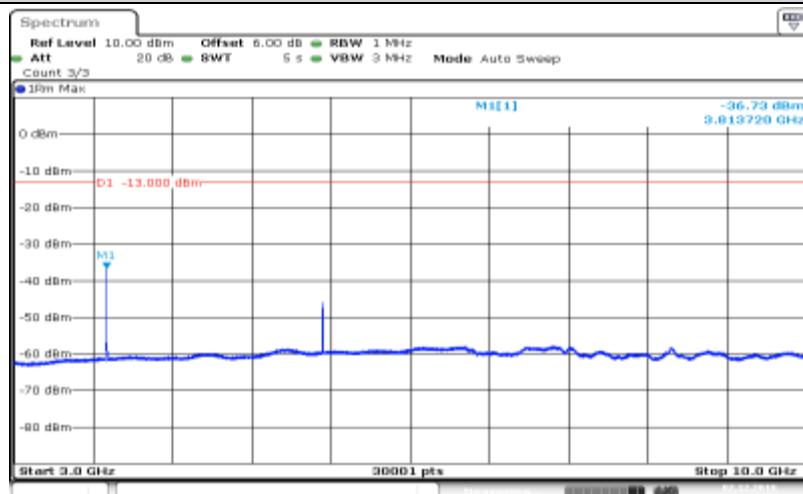
Tel.: (86)755-27521059

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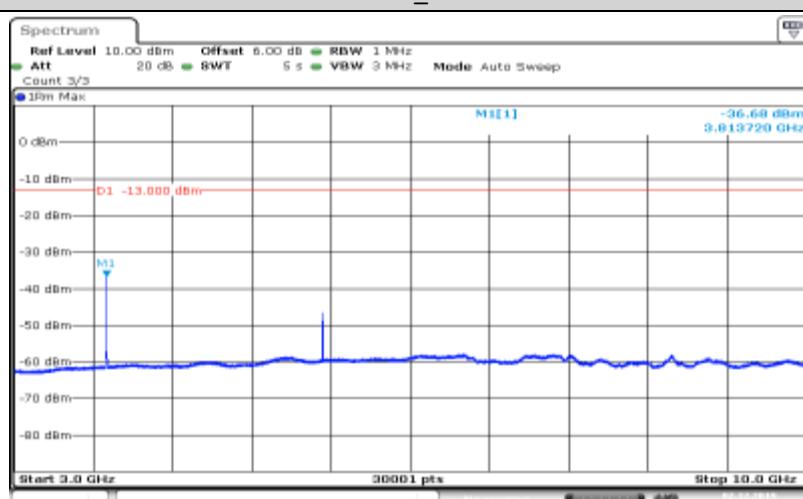
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Band II-9538-HSDPA_Sub2-3000~10000



Band II-9538-HSDPA_Sub3-3000~10000



Band II-9538-HSDPA_Sub4-3000~10000

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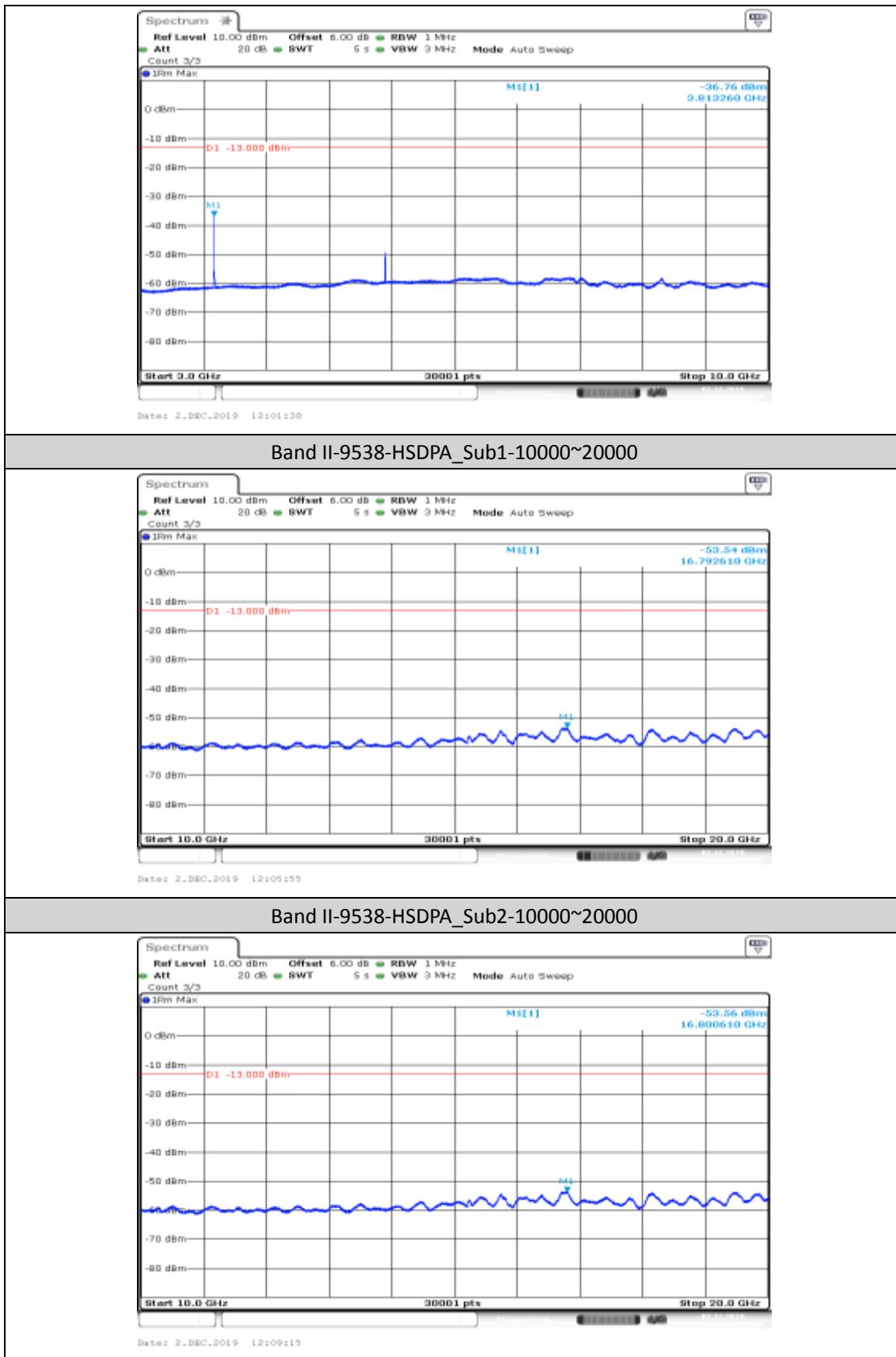
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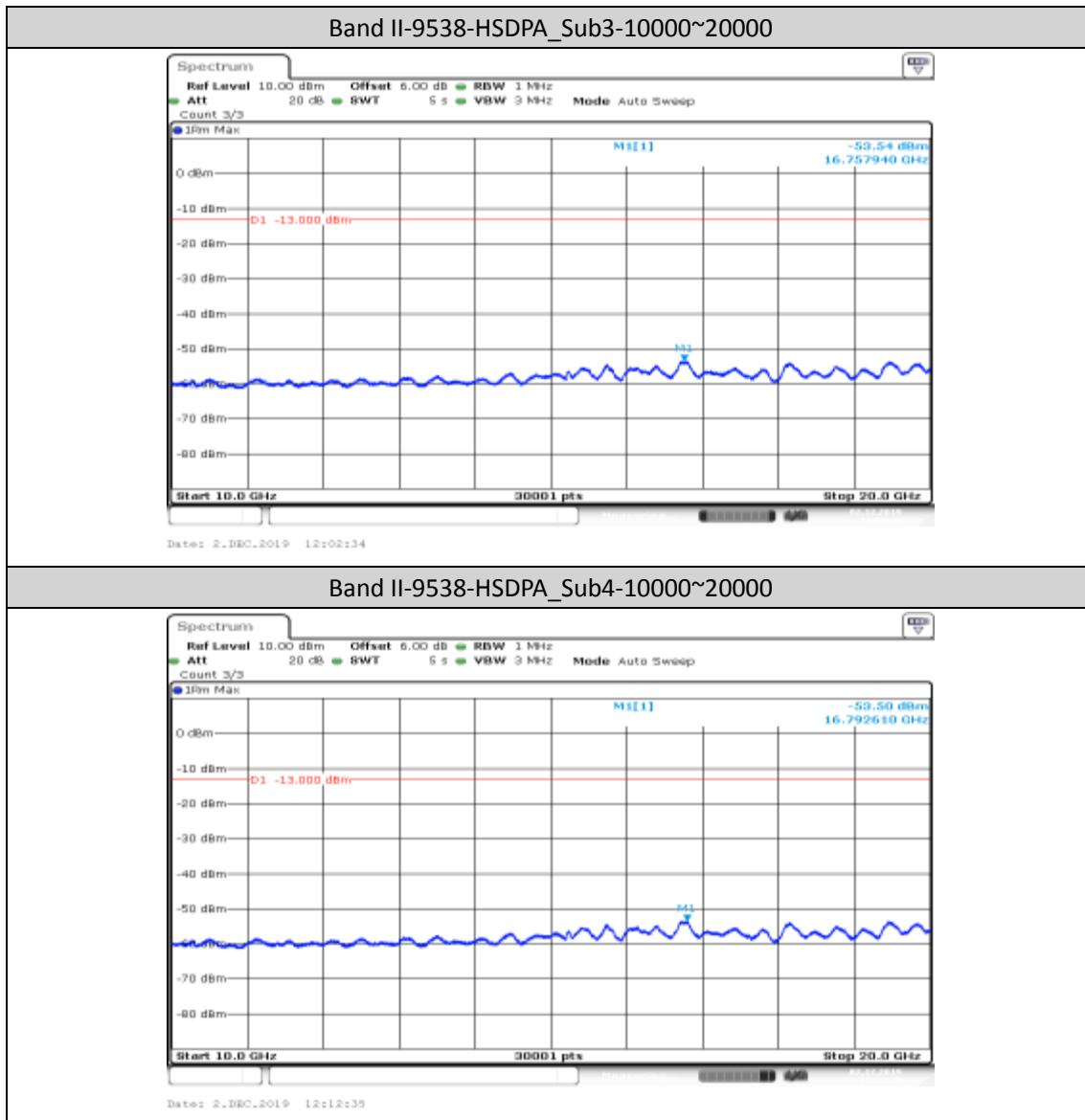
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**HSUPA:**

Band II-9262-HSUPA_Sub1-0.009~0.15

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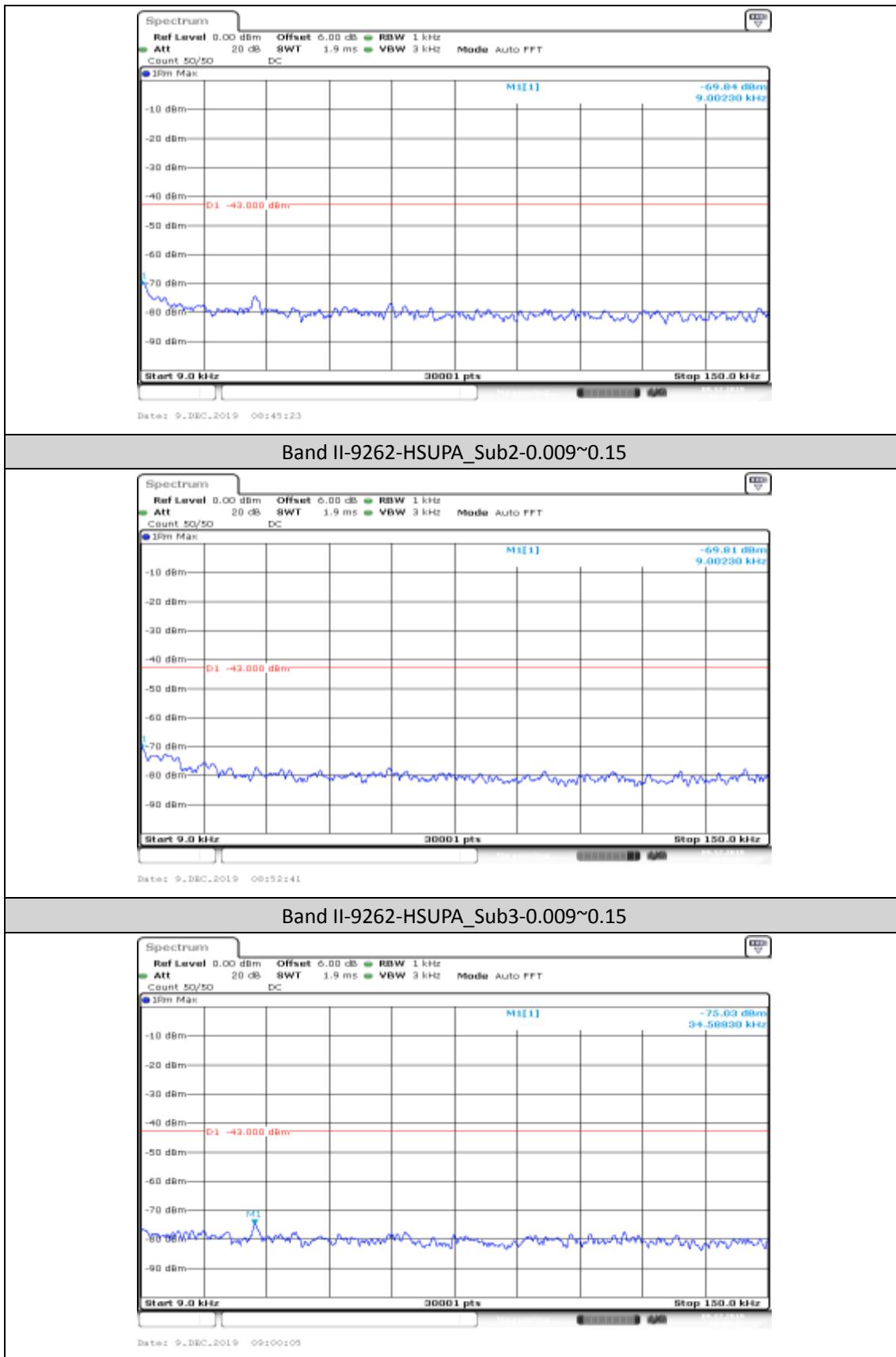
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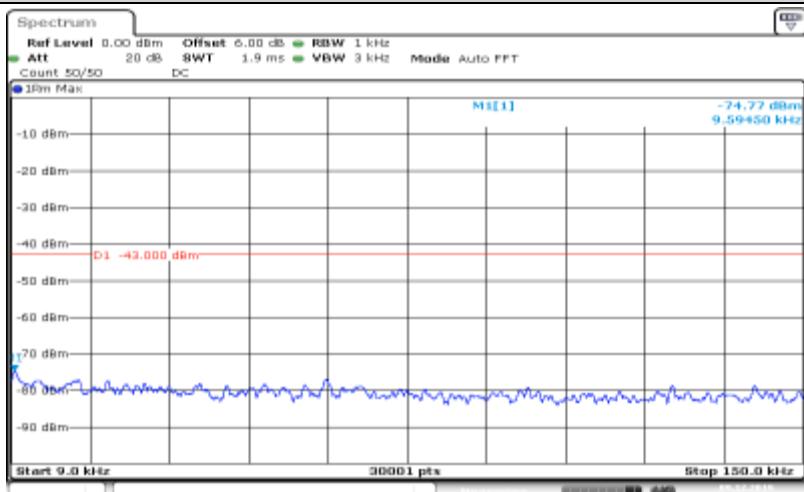
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

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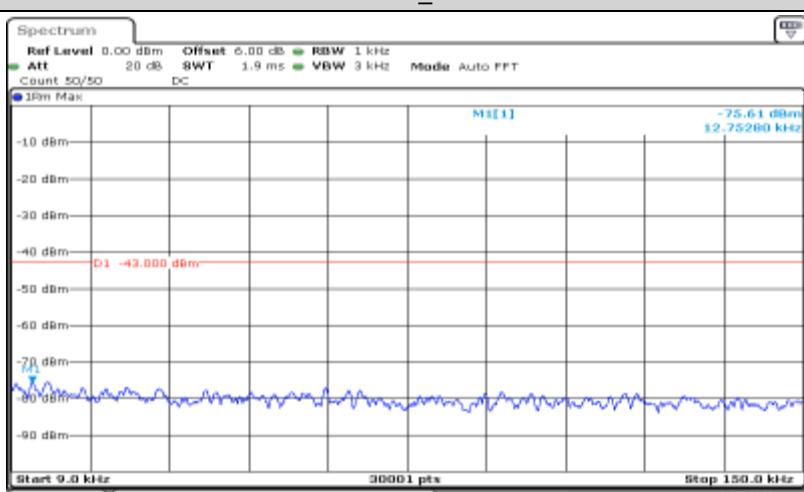


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Band II-9262-HSUPA_Sub4-0.009~0.15



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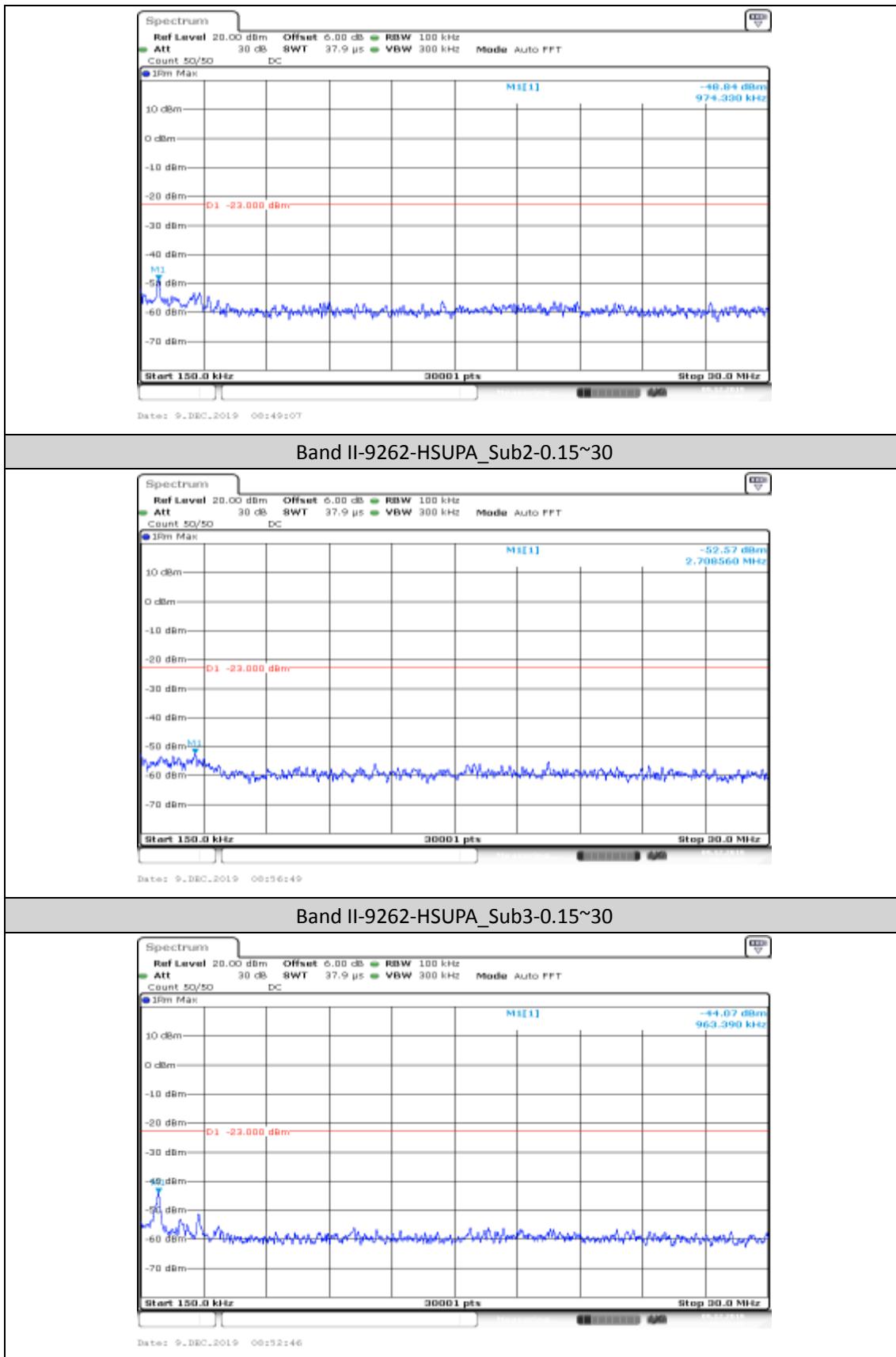
Band II-9262-HSUPA_Sub1-0.15~30

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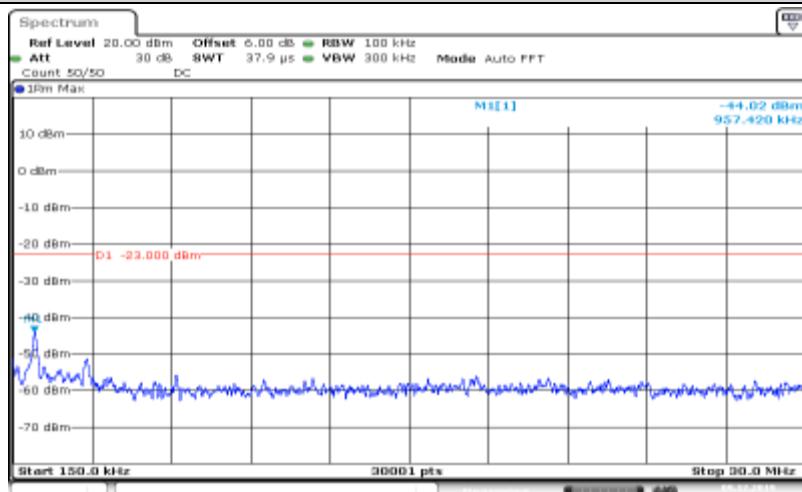
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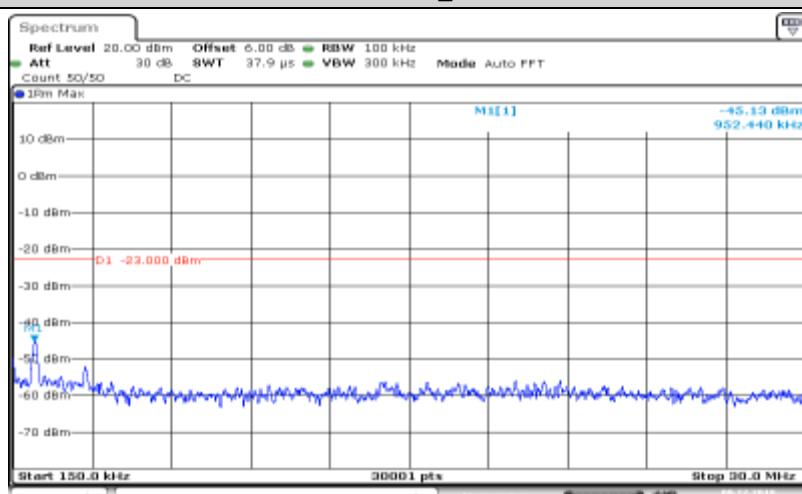


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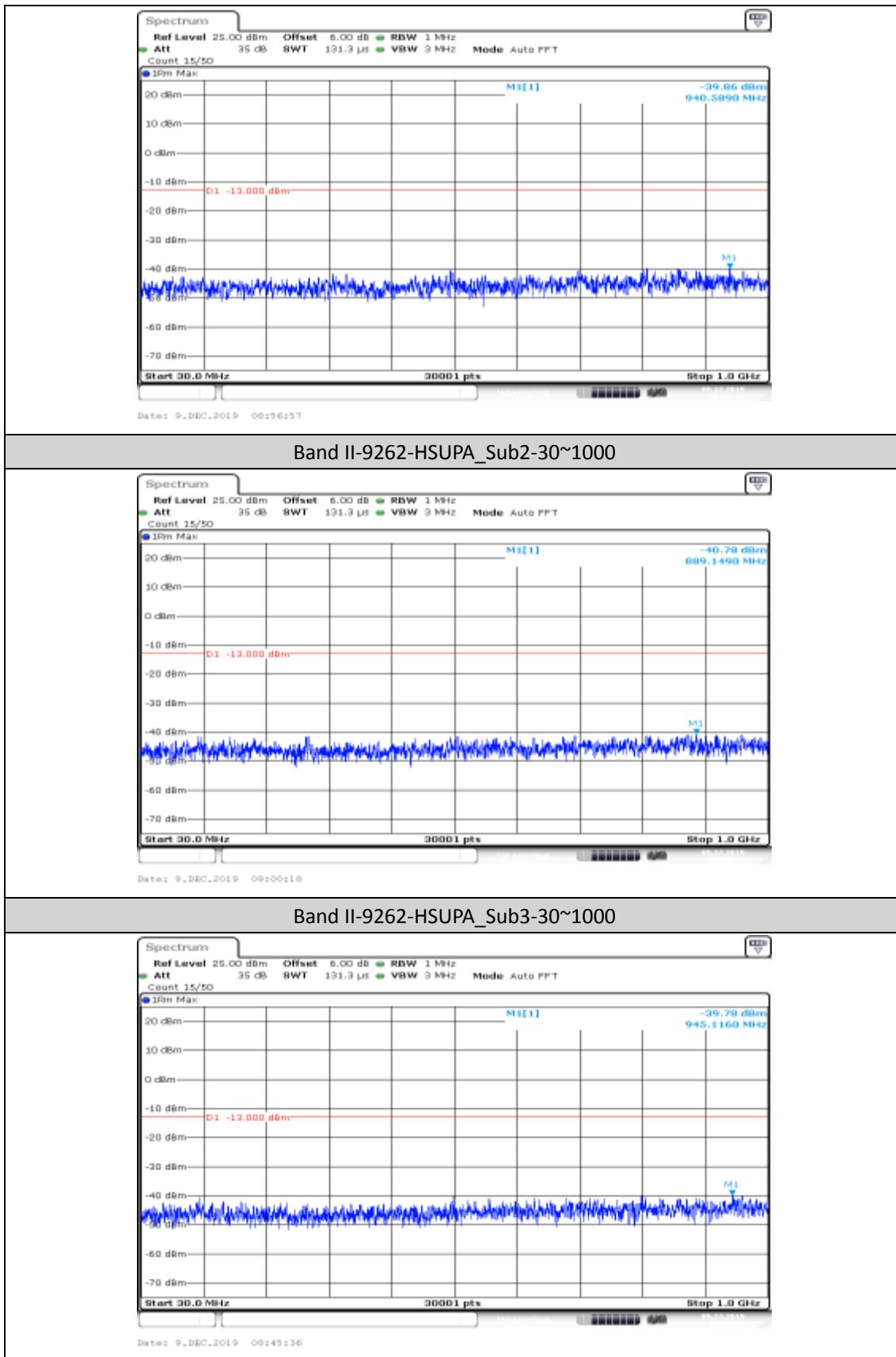
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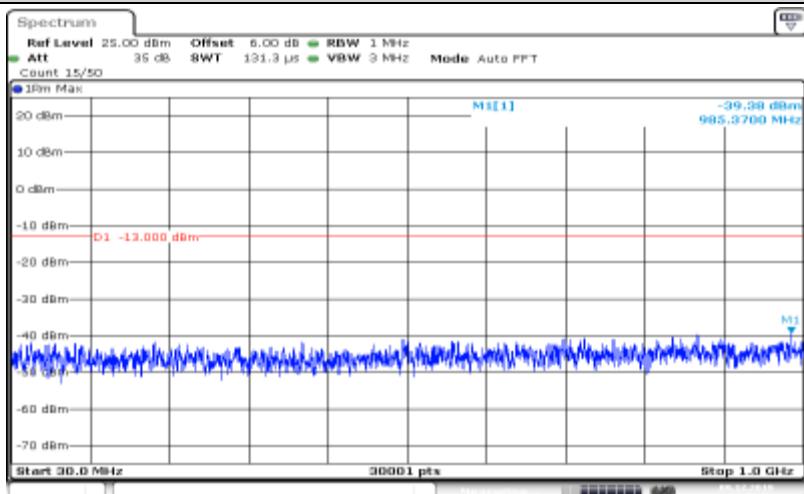
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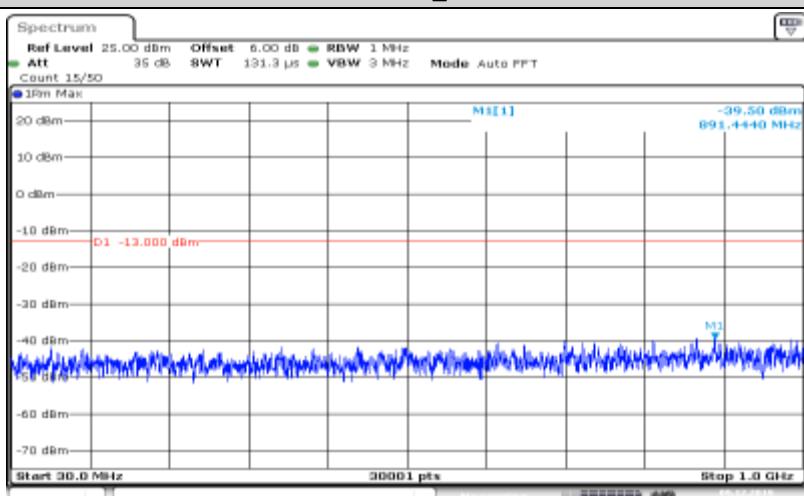
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Band II-9262-HSUPA_Sub4-30~1000



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Band II-9262-HSUPA_Sub5-30~1000



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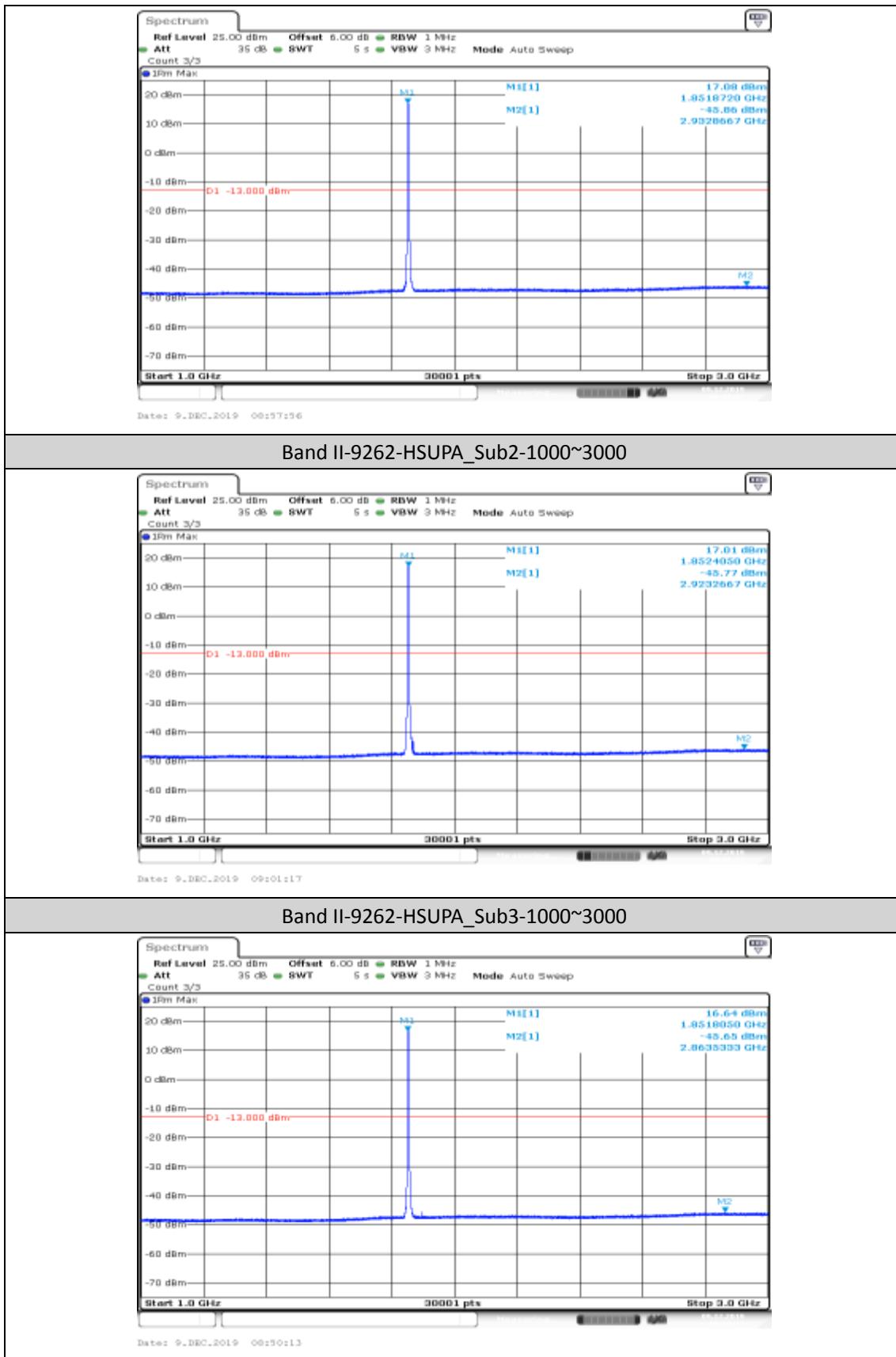
Band II-9262-HSUPA_Sub1-1000~3000

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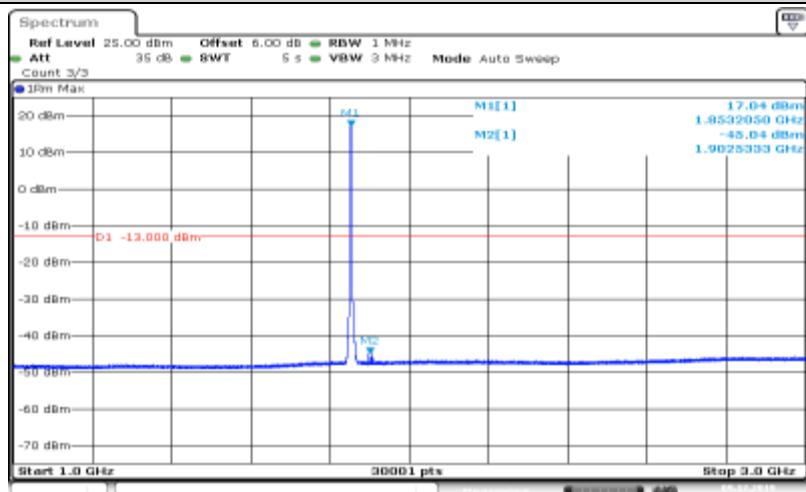
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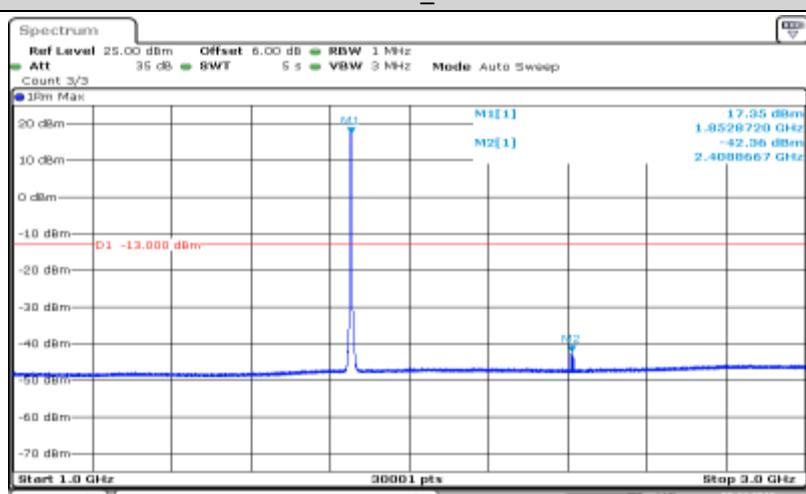
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Band II-9262-HSUPA_Sub4-1000~3000



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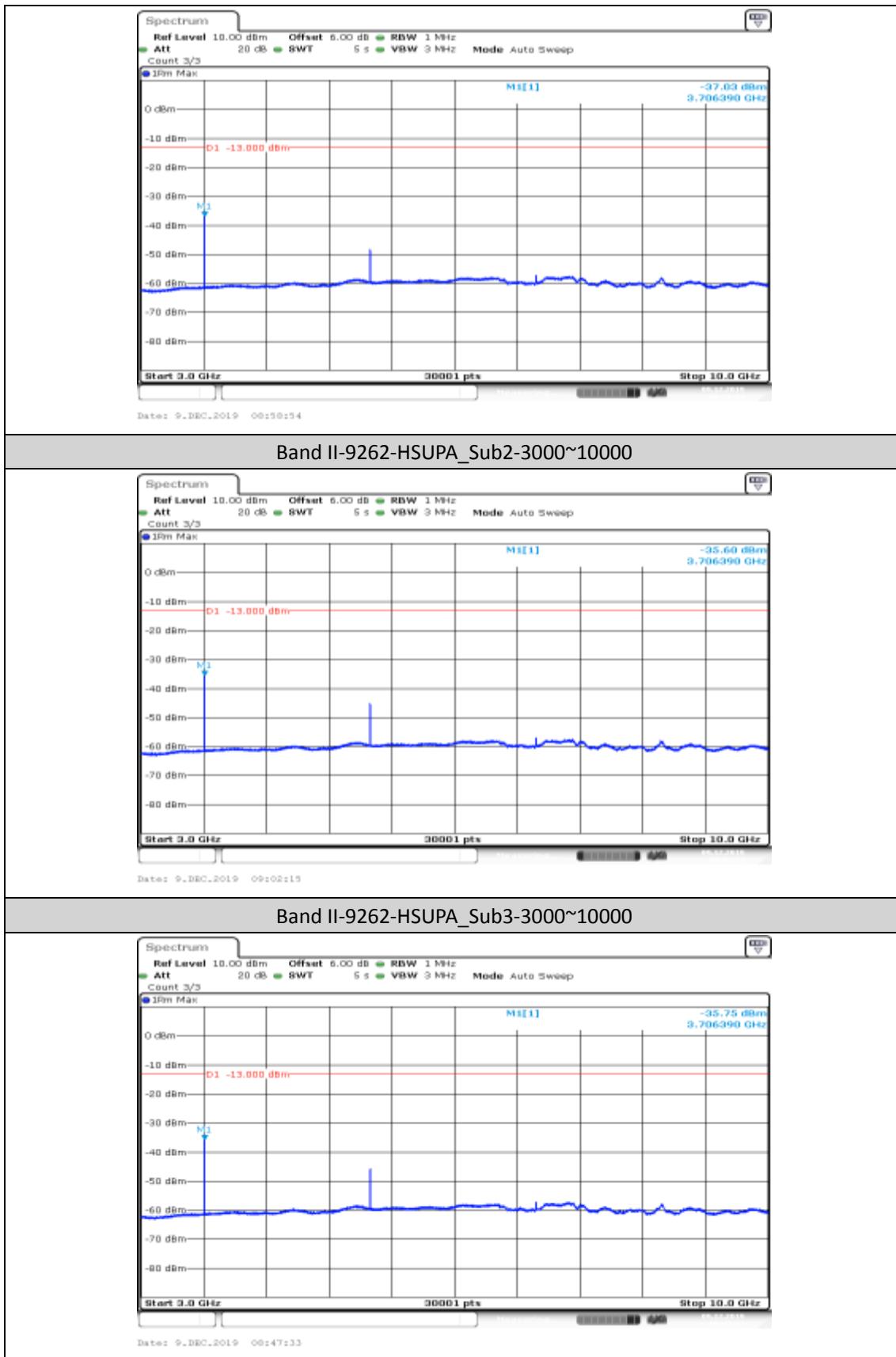
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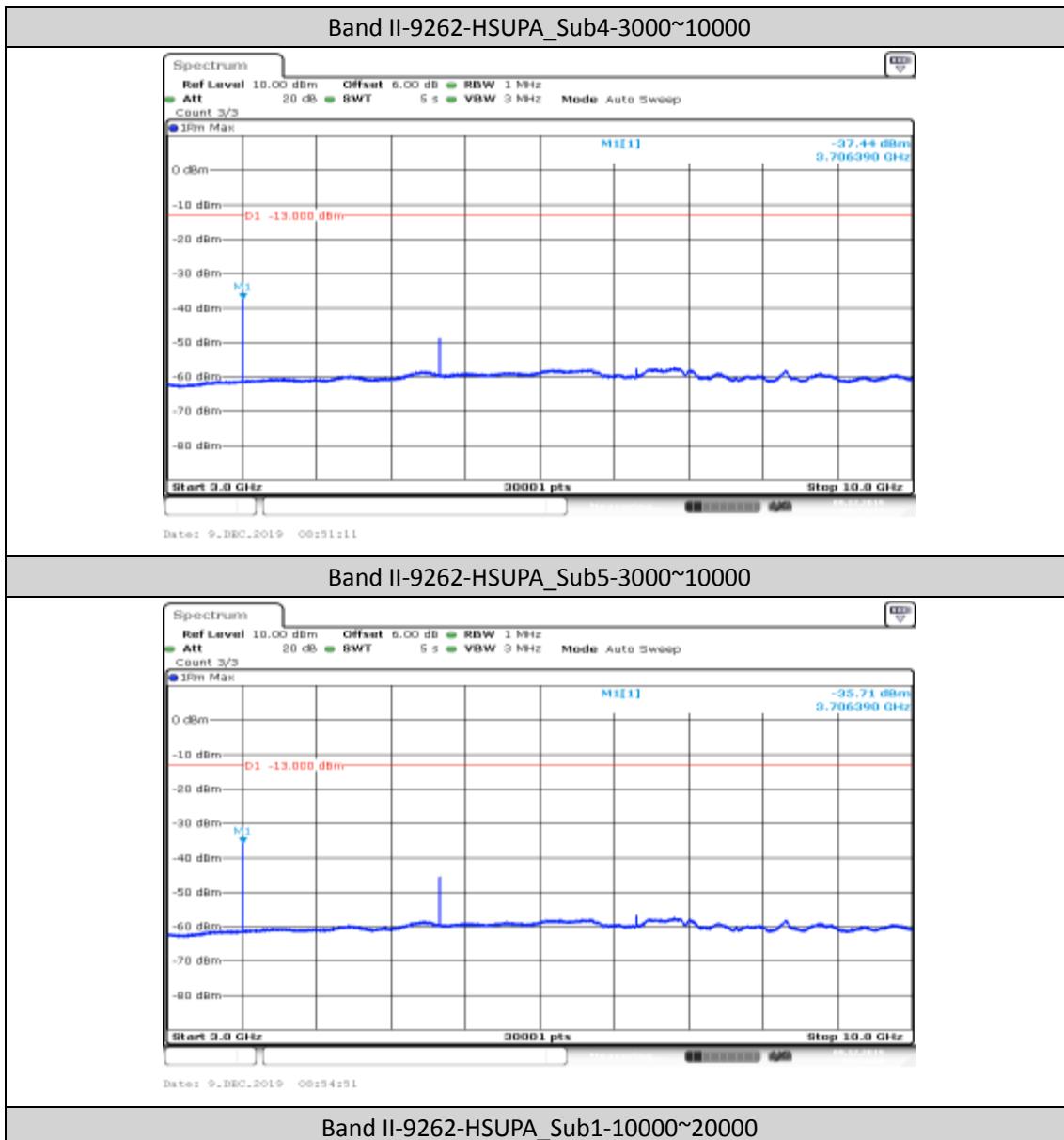


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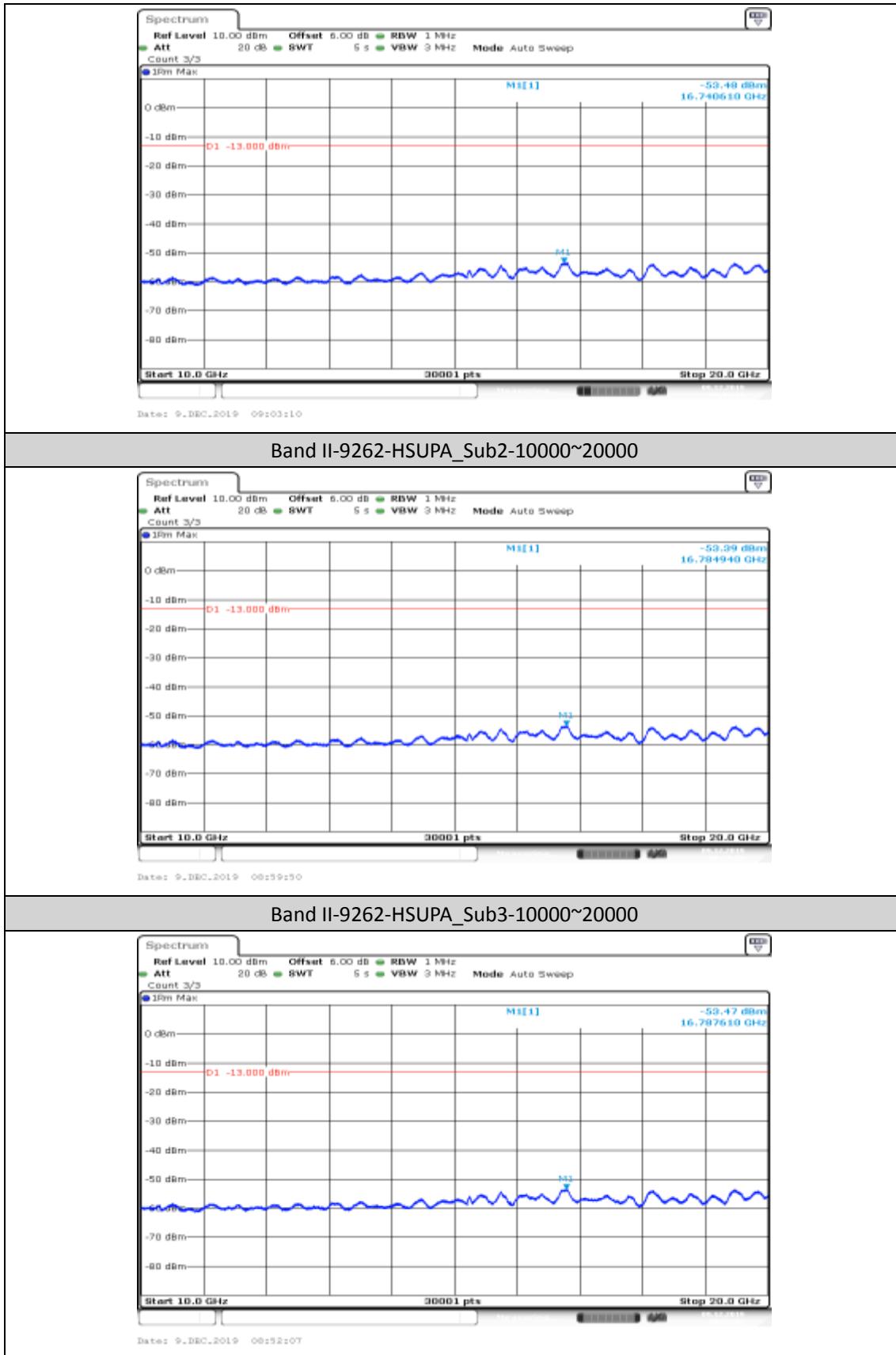
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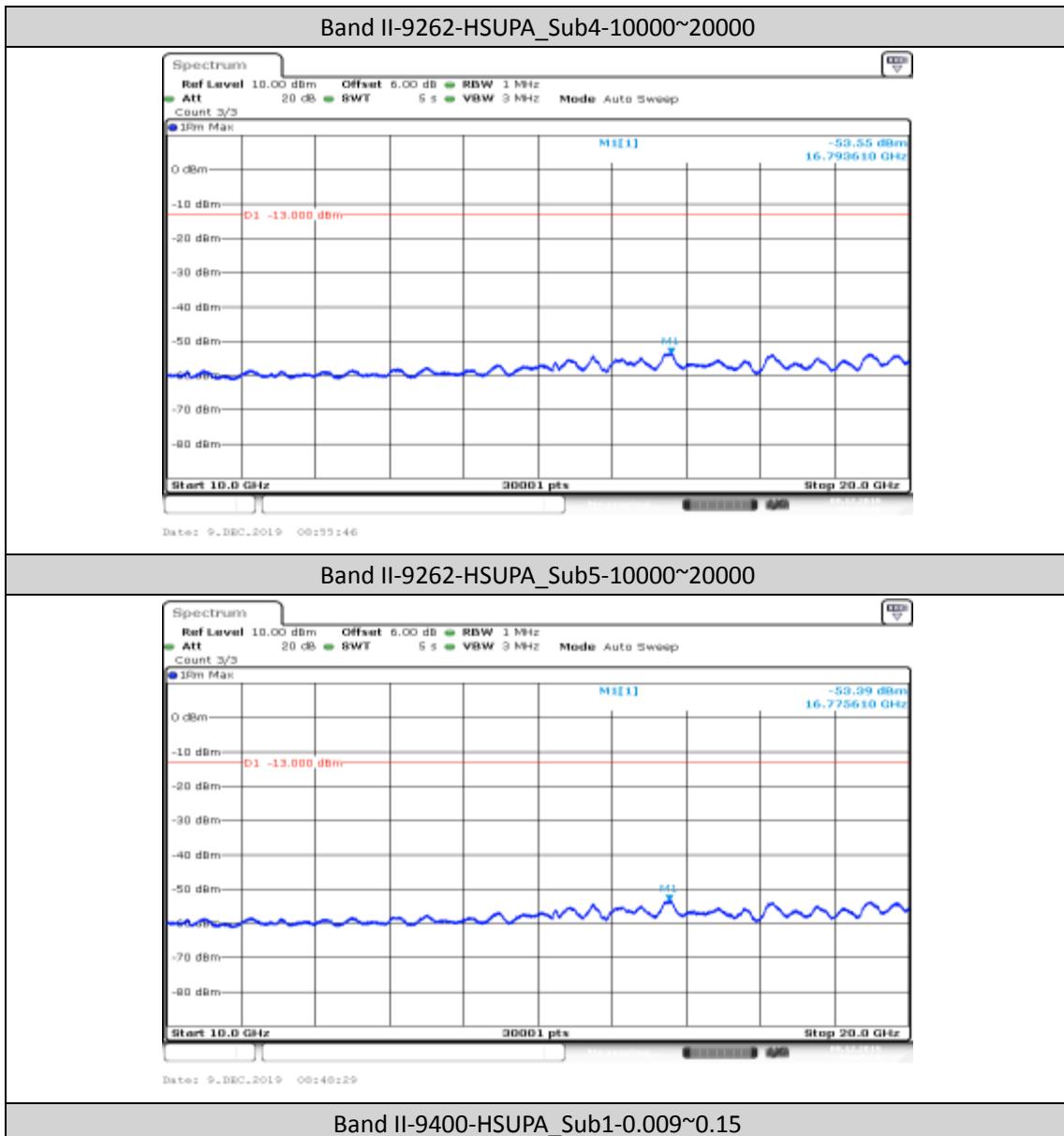
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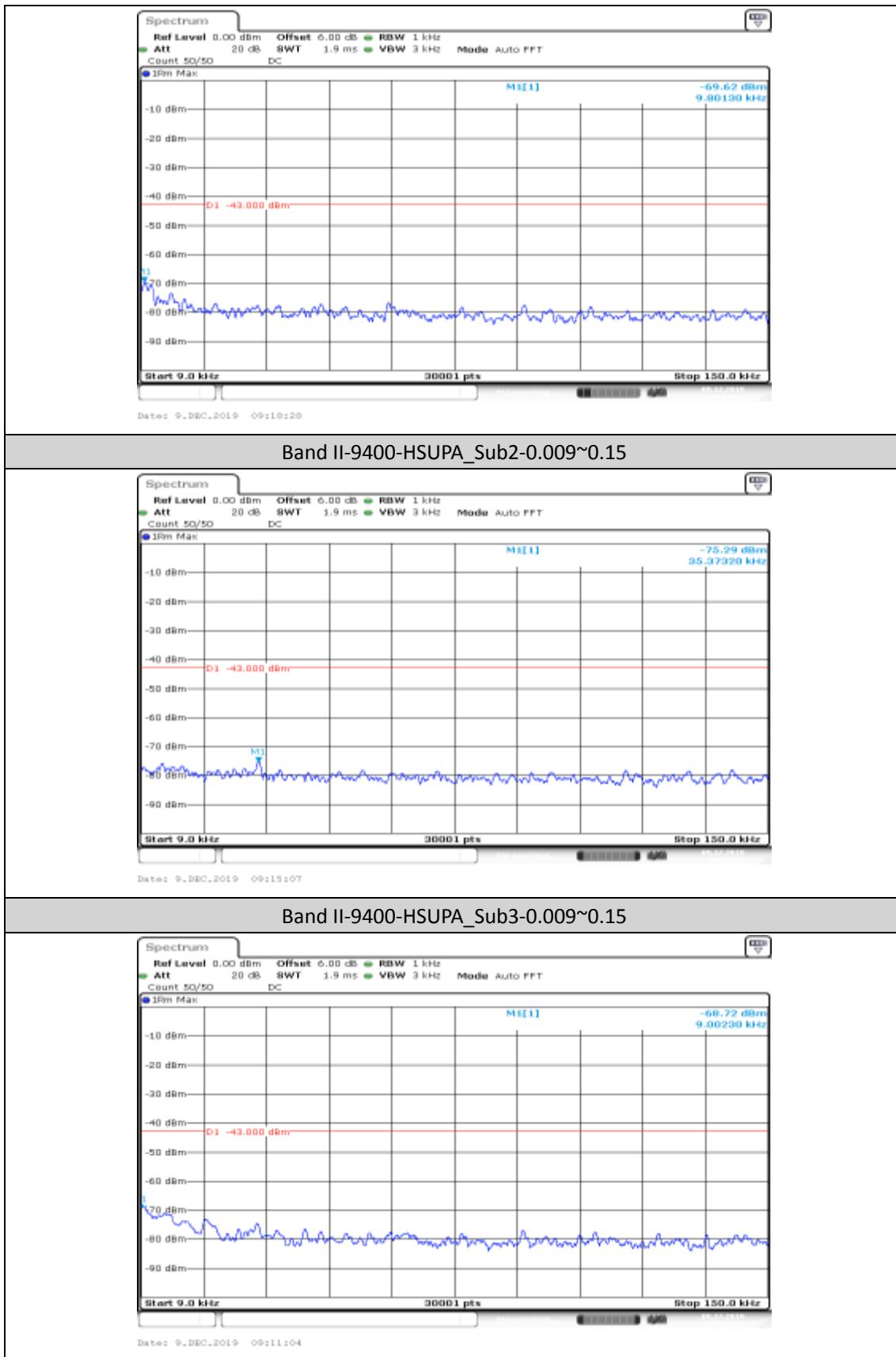
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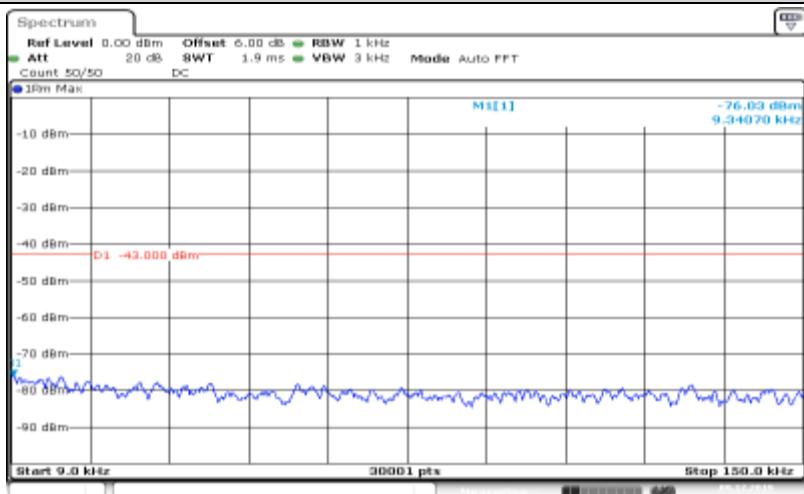
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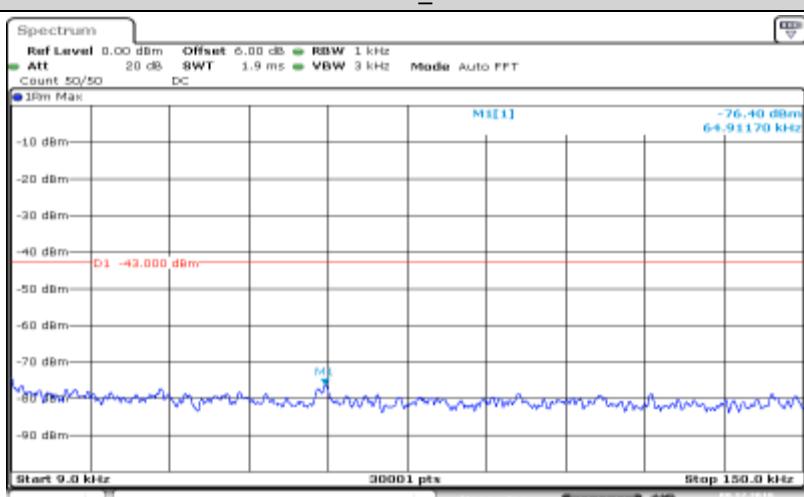
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Band II-9400-HSUPA_Sub5-0.009~0.15



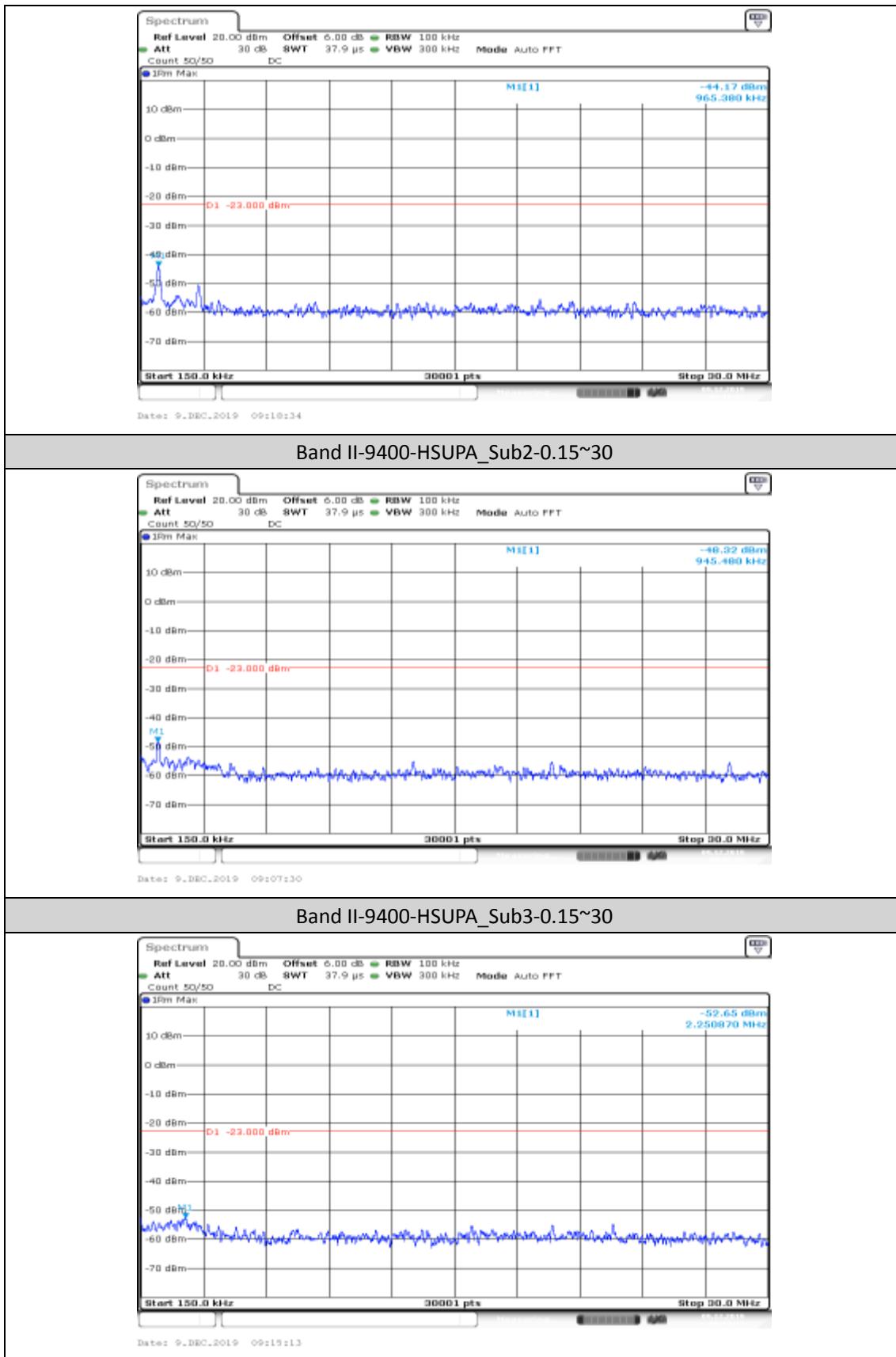
Band II-9400-HSUPA_Sub1-0.15~30

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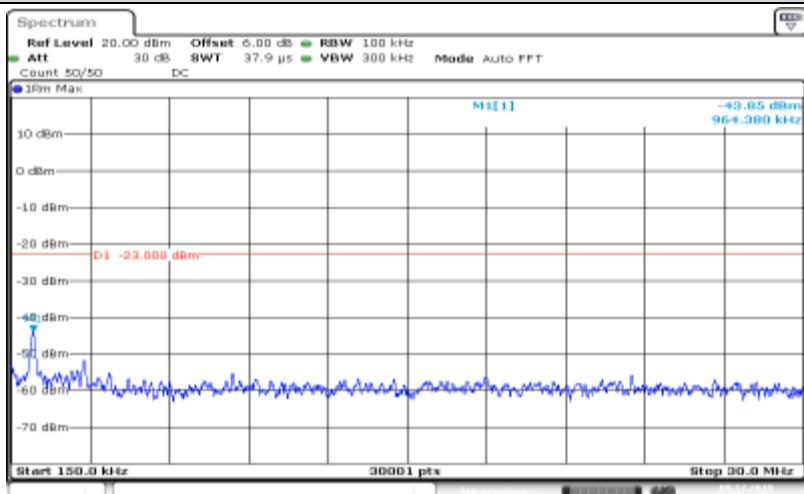
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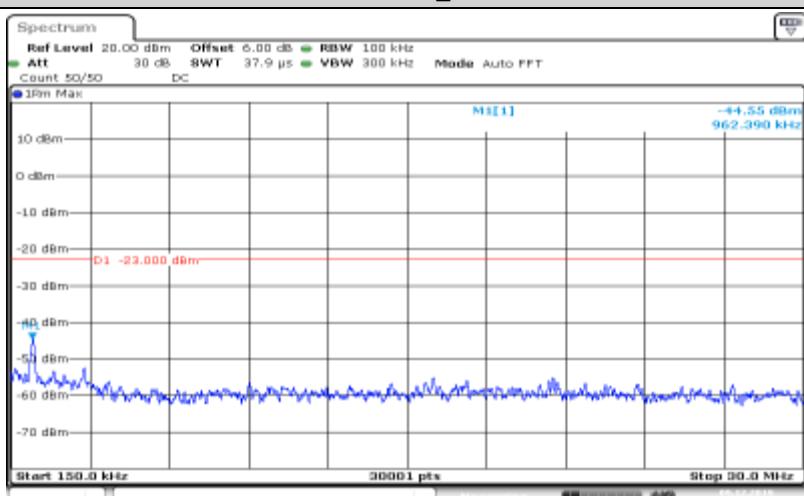
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Band II-9400-HSUPA_Sub5-0.15~30



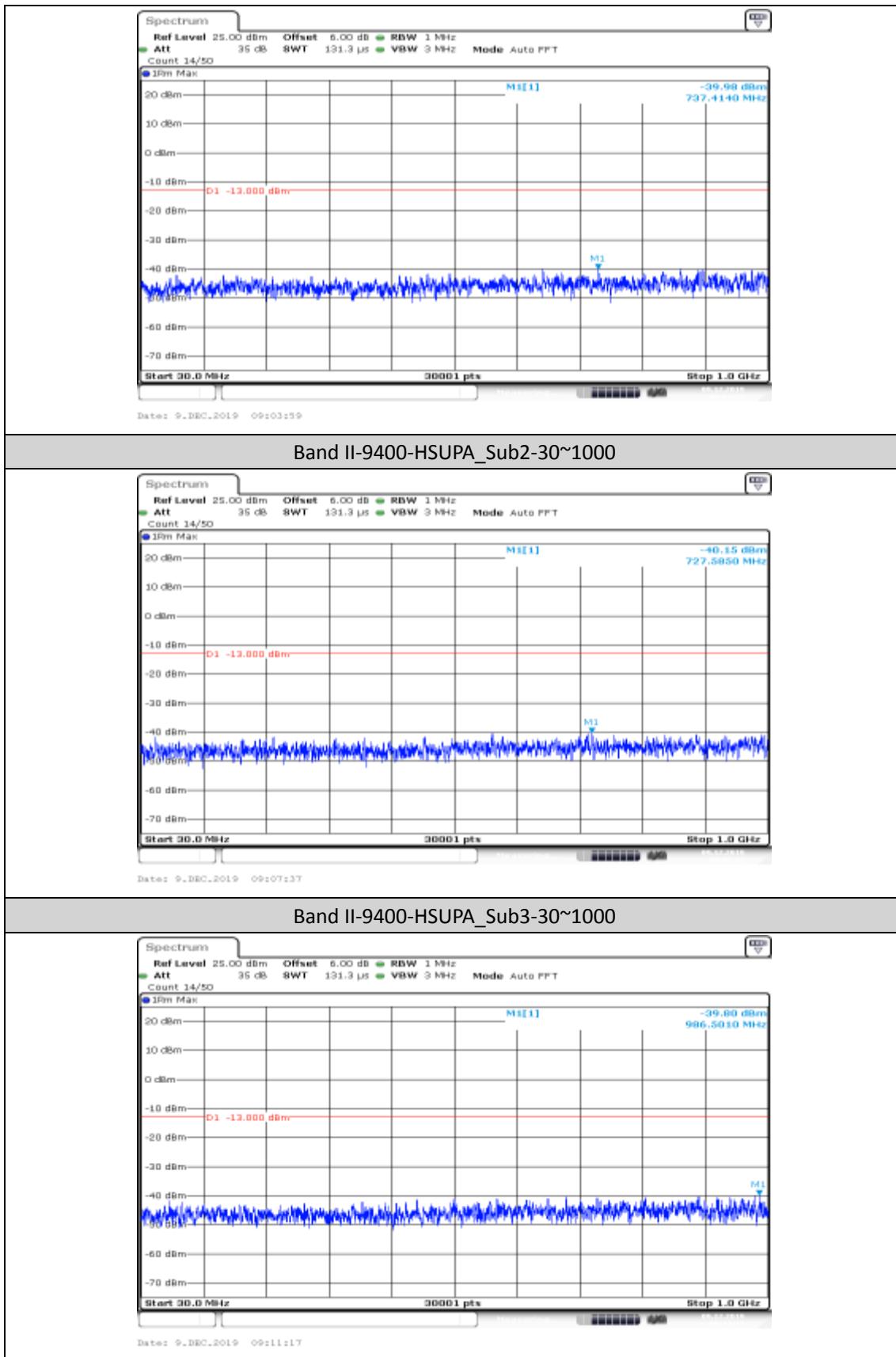
Band II-9400-HSUPA_Sub1-30~1000

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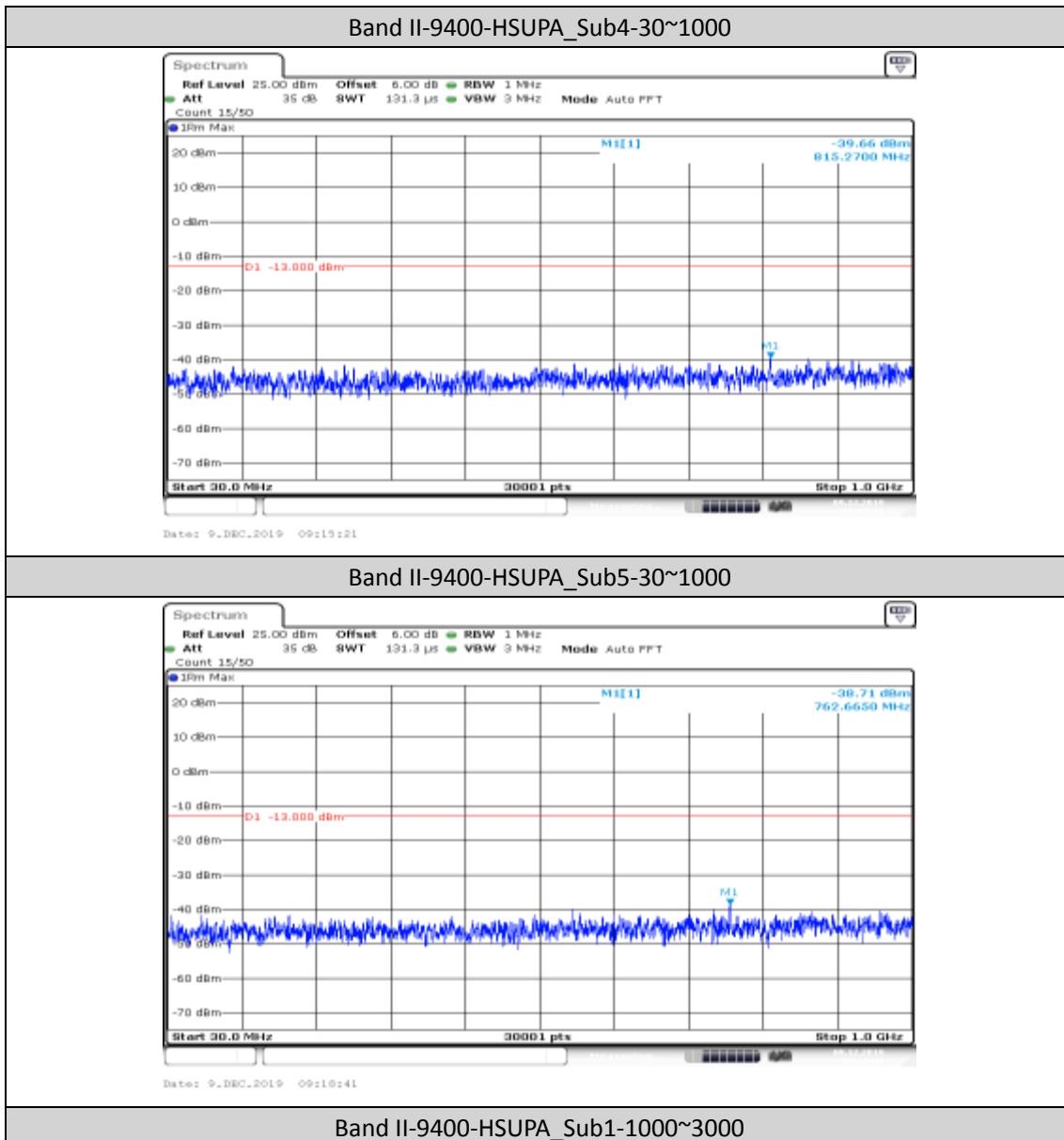


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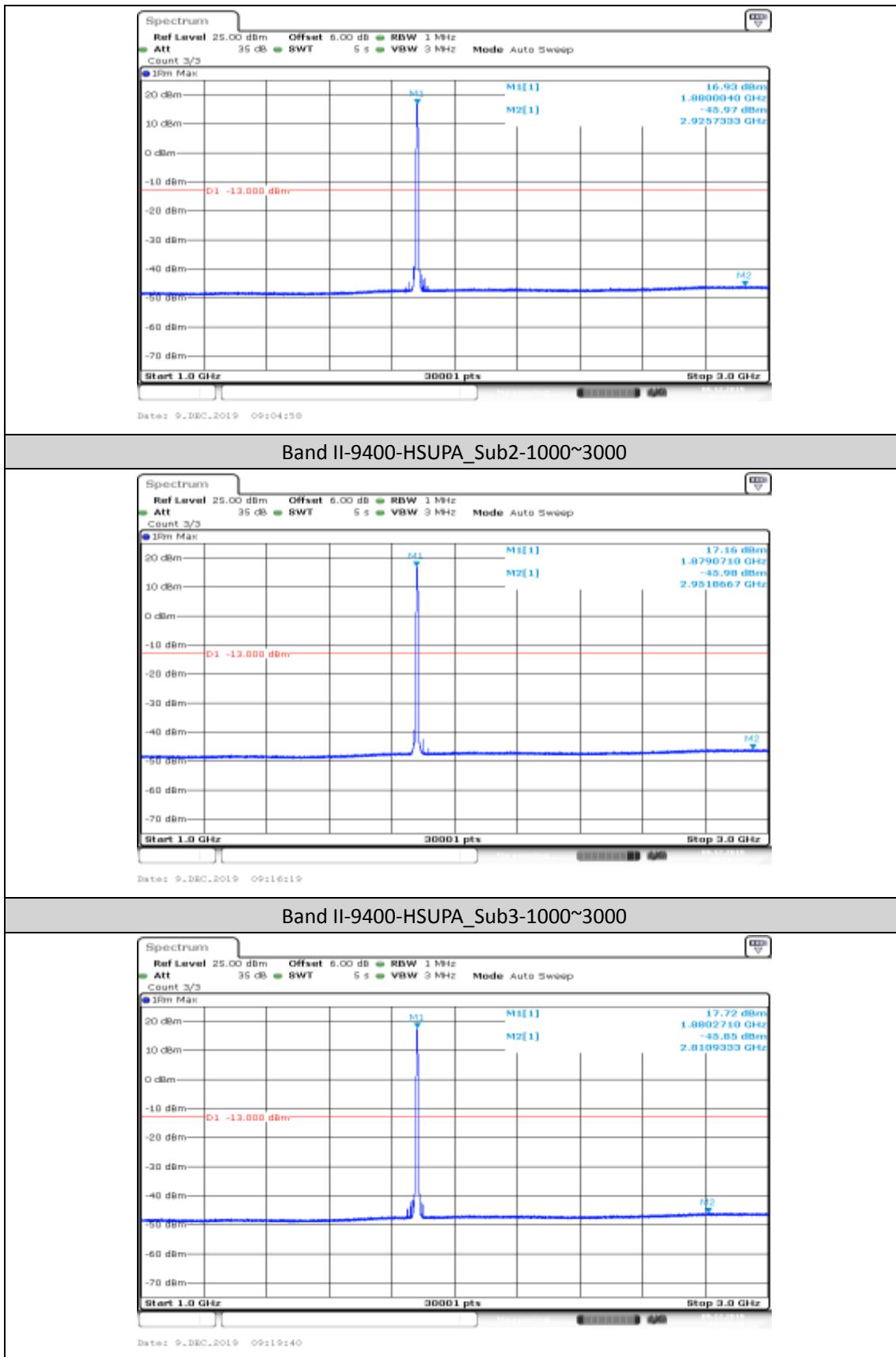
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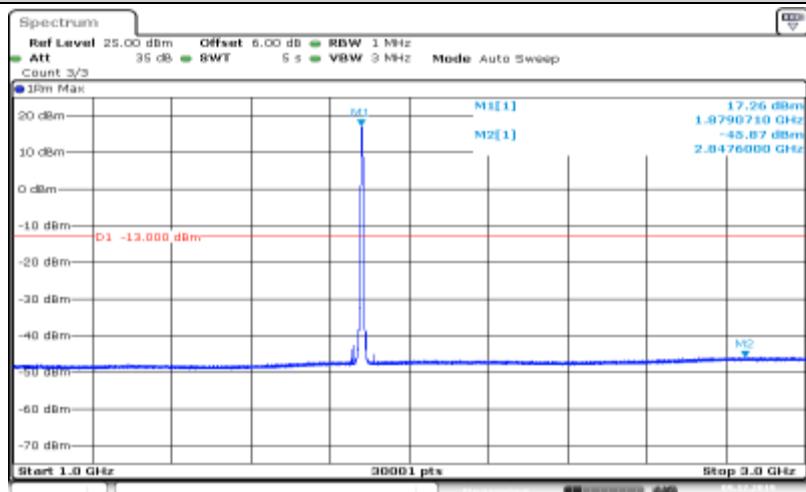
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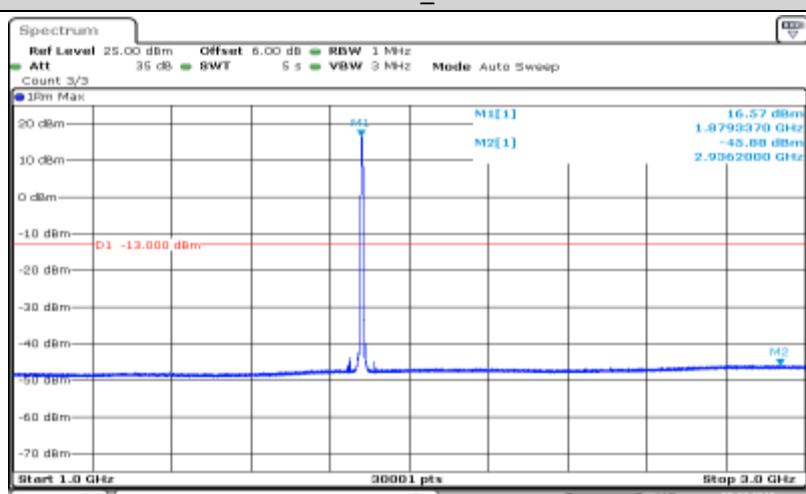
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Band II-9400-HSUPA_Sub4-1000~3000



Date: 9-DEC-2019 09:12:16

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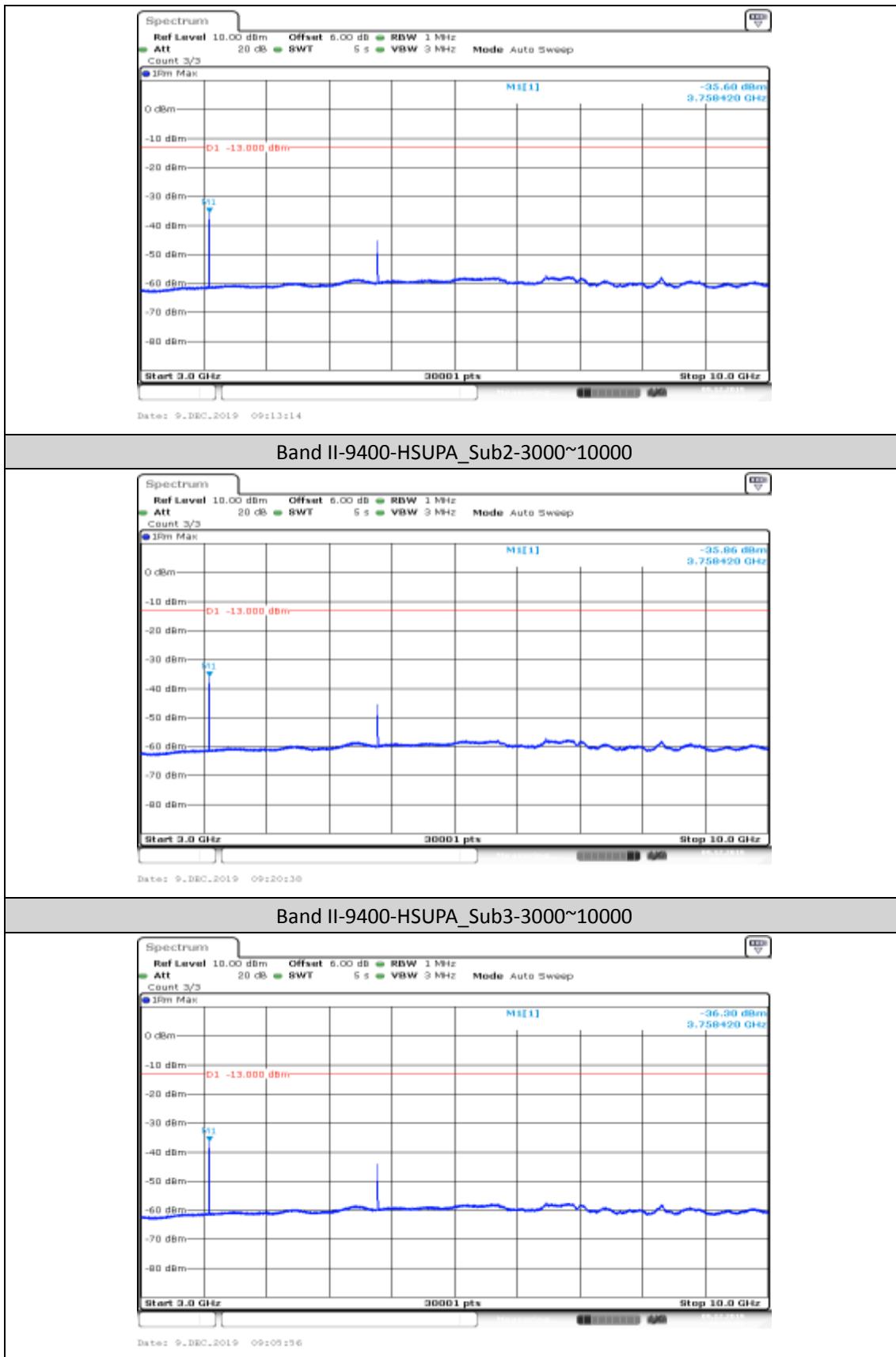
Band II-9400-HSUPA_Sub1-3000~10000

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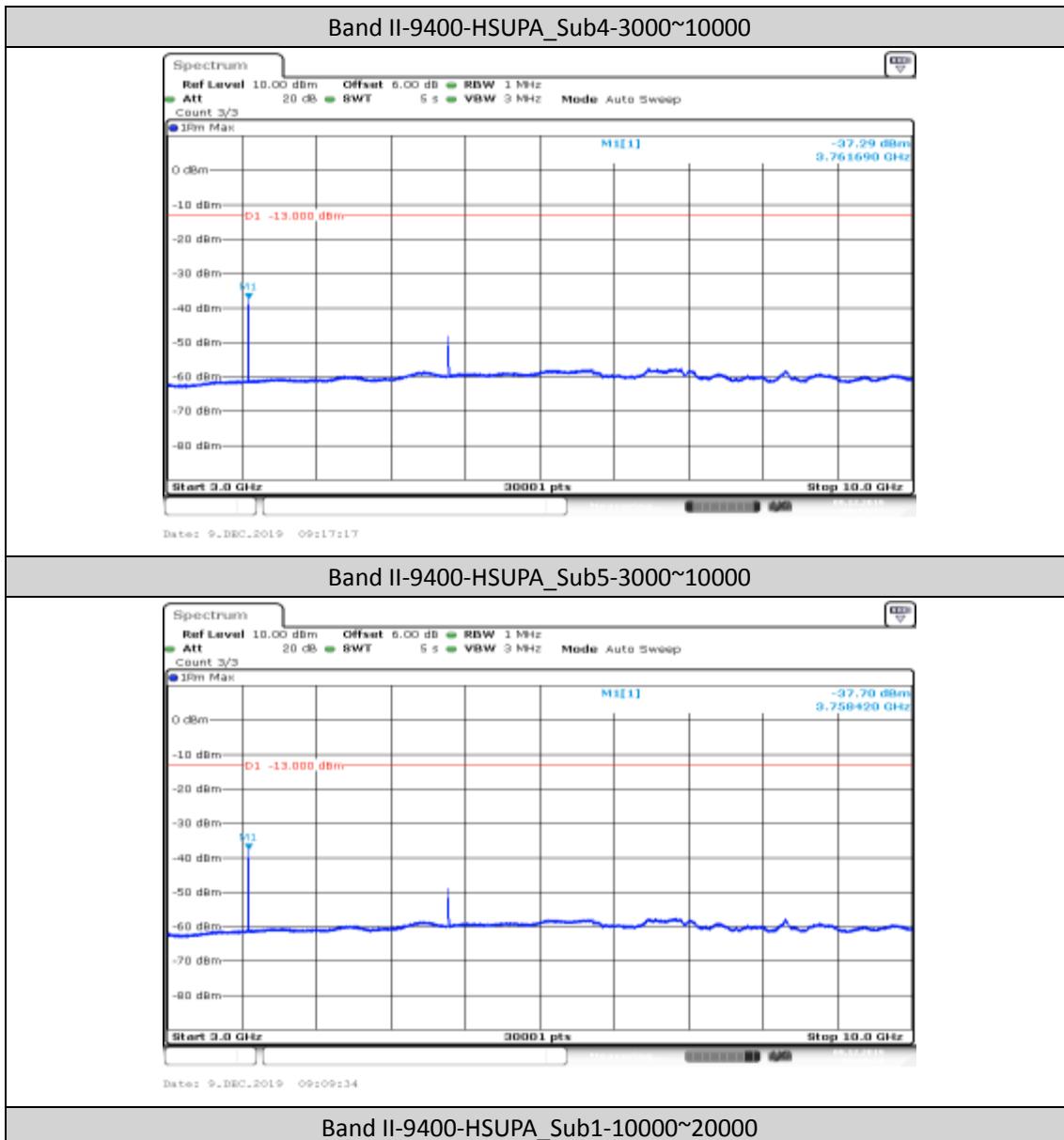
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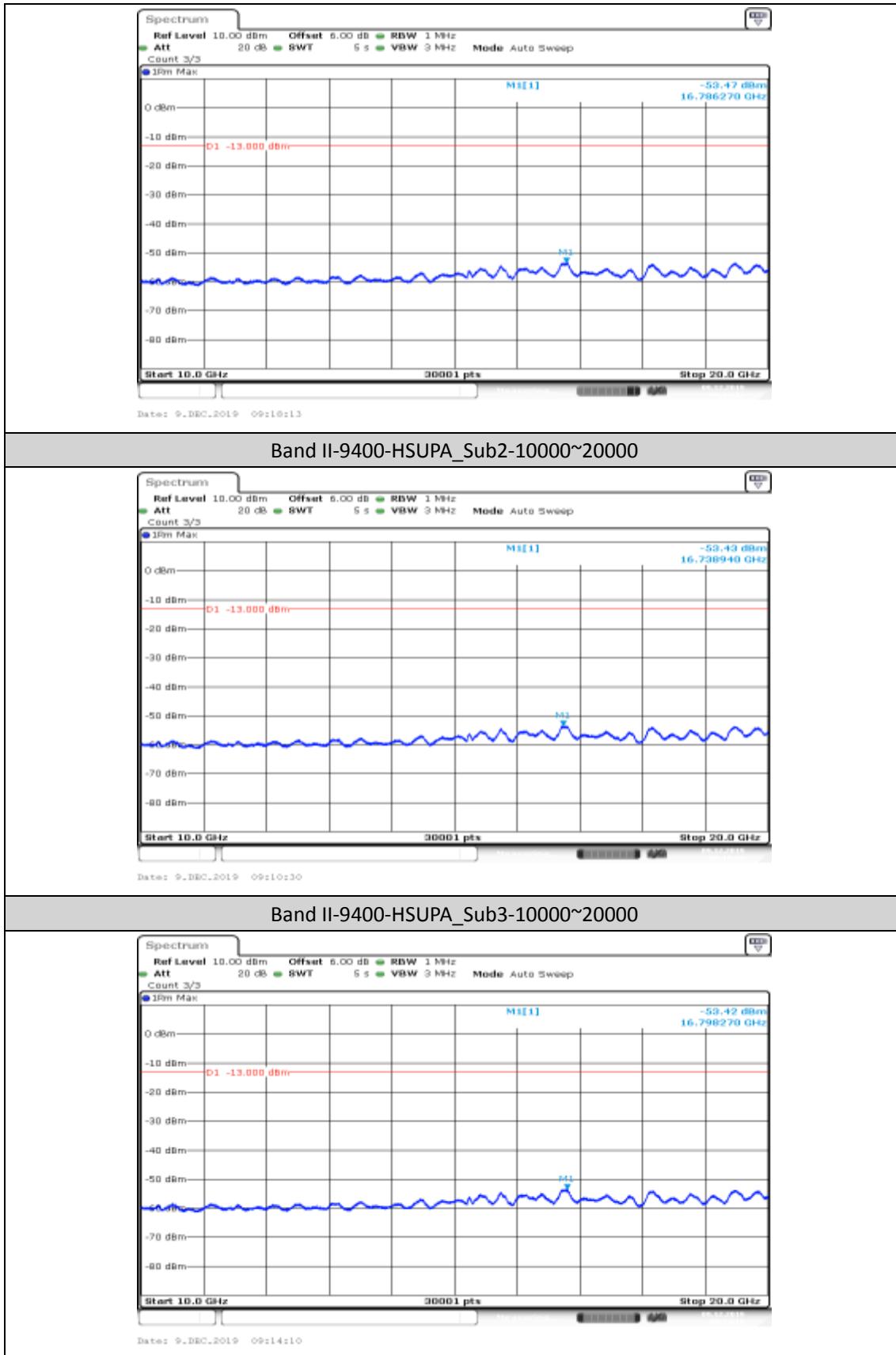
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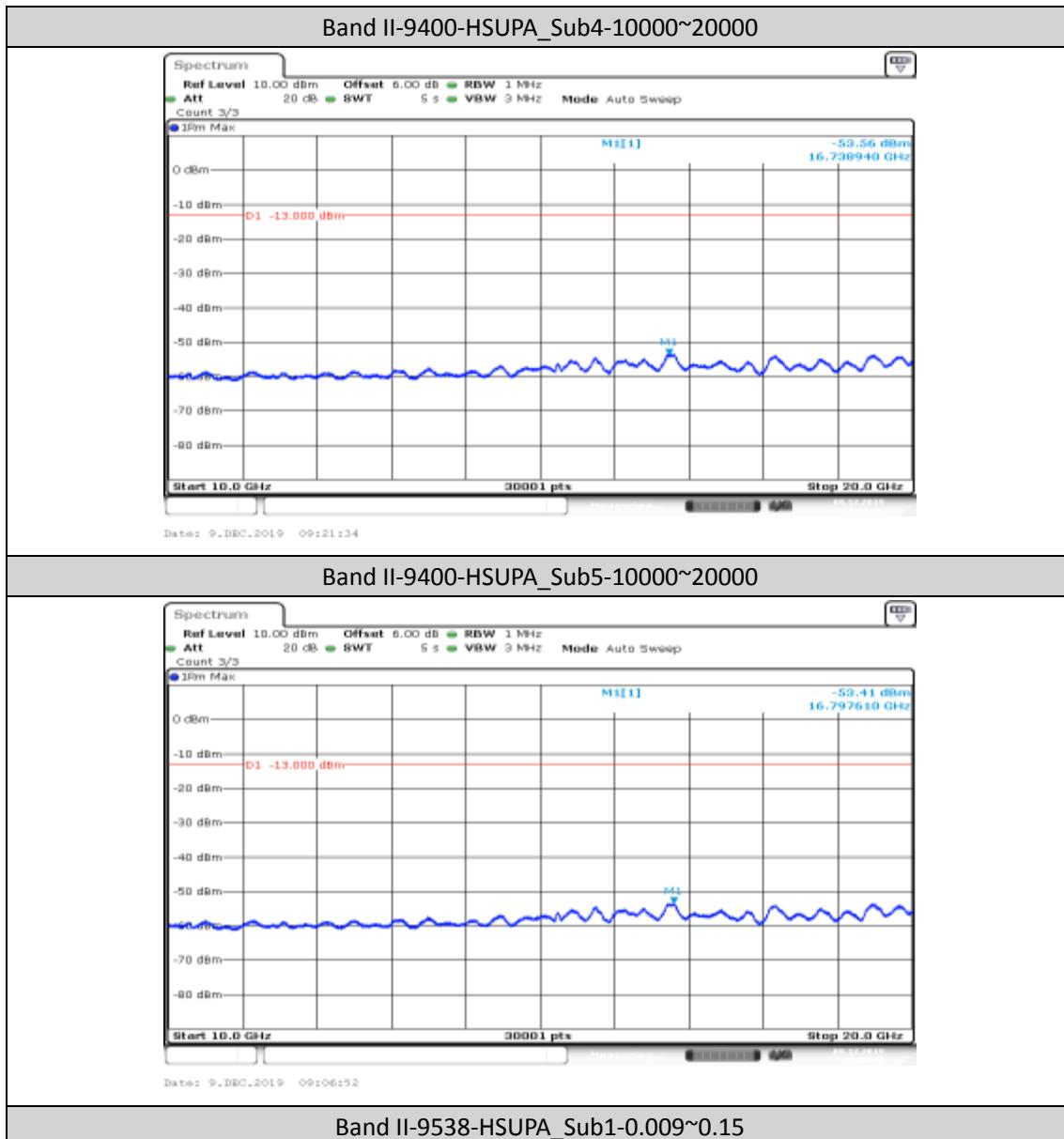
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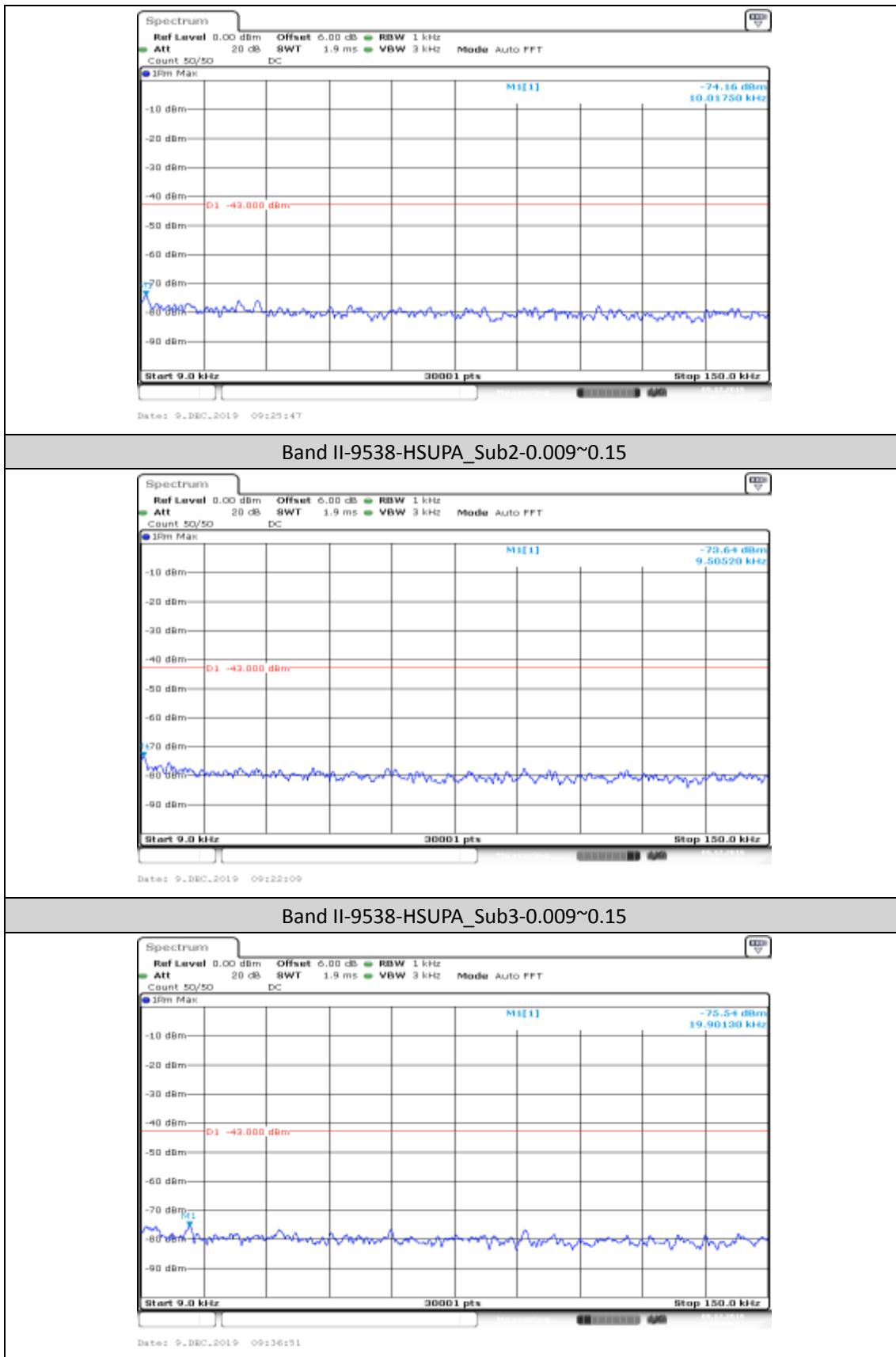
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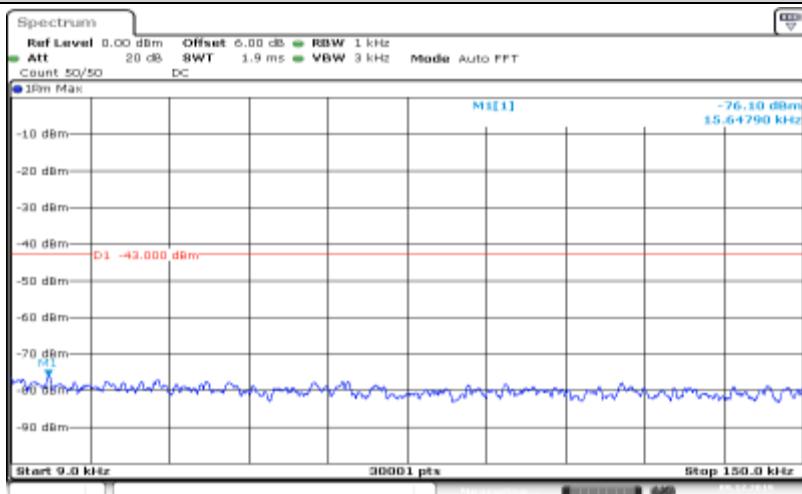
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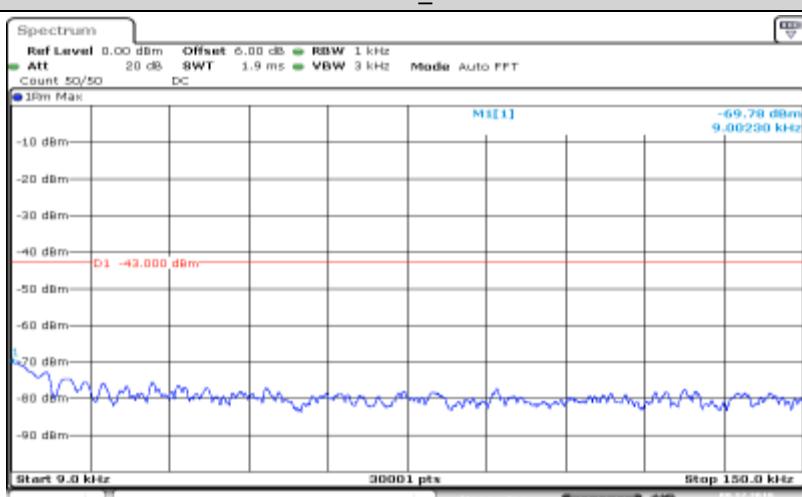
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Band II-9538-HSUPA_Sub4-0.009~0.15



Band II-9538-HSUPA_Sub5-0.009~0.15



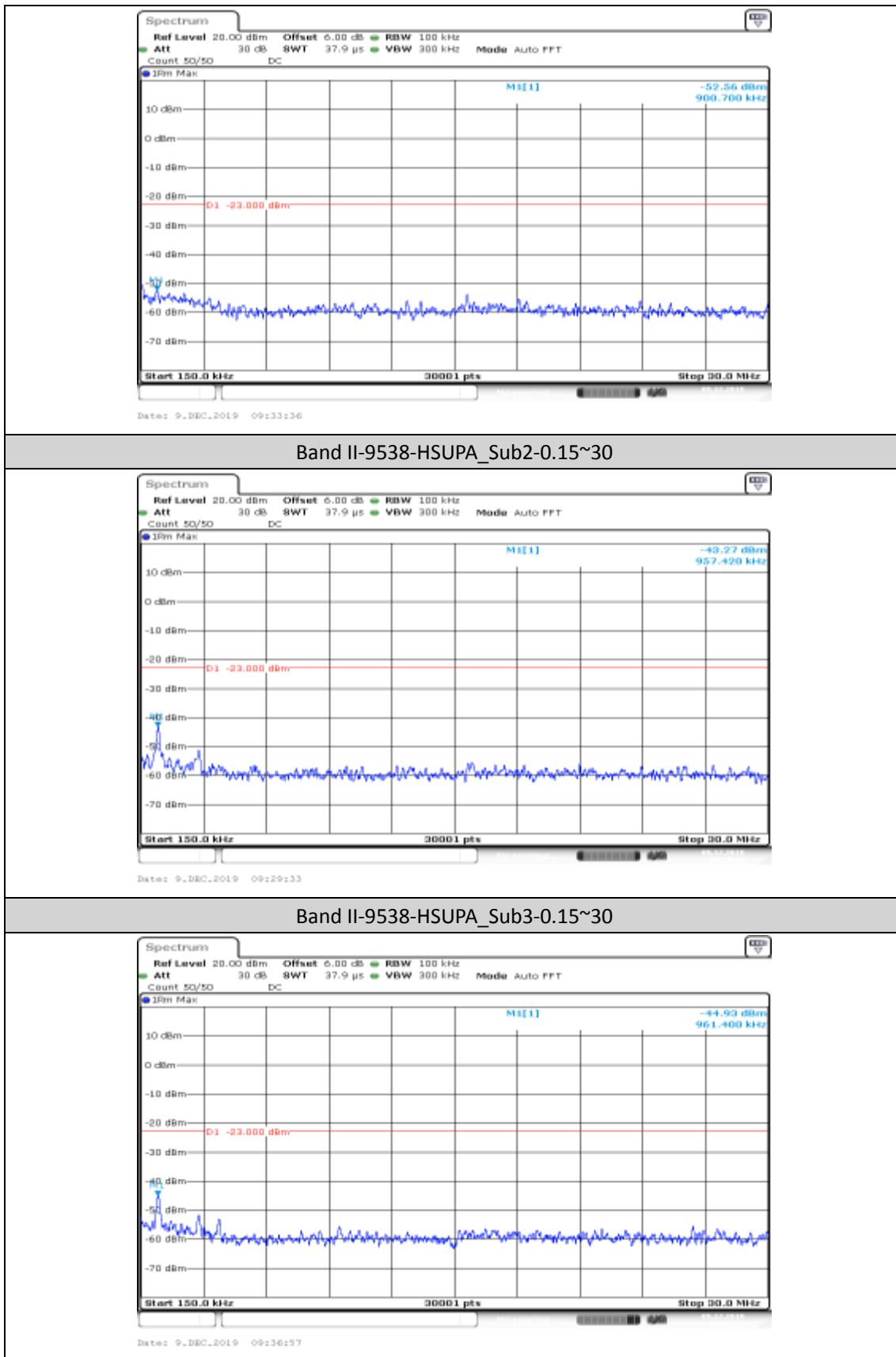
Band II-9538-HSUPA_Sub1-0.15~30

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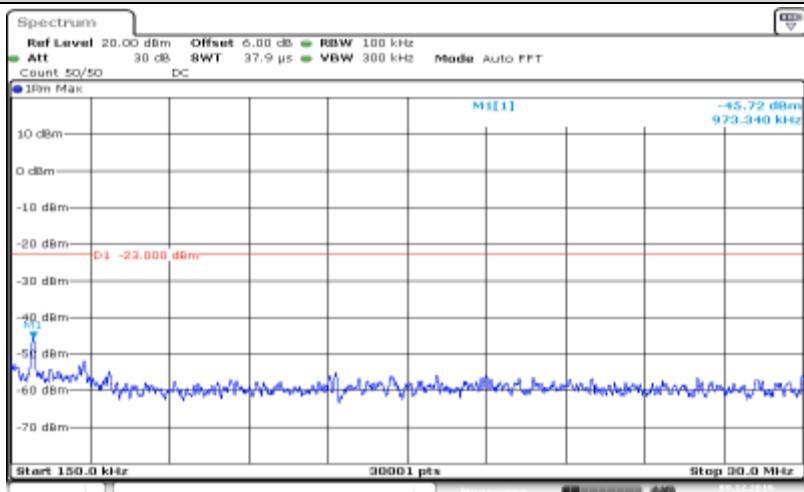
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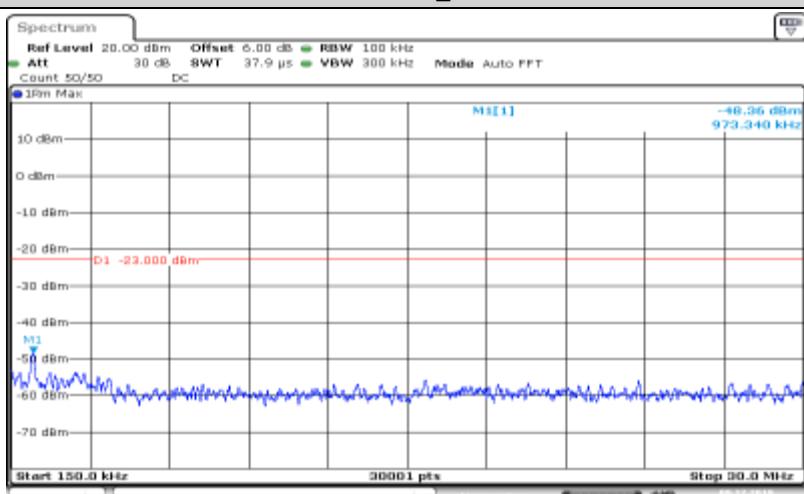


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Band II-9538-HSUPA_Sub4-0.15~30



Band II-9538-HSUPA_Sub5-0.15~30



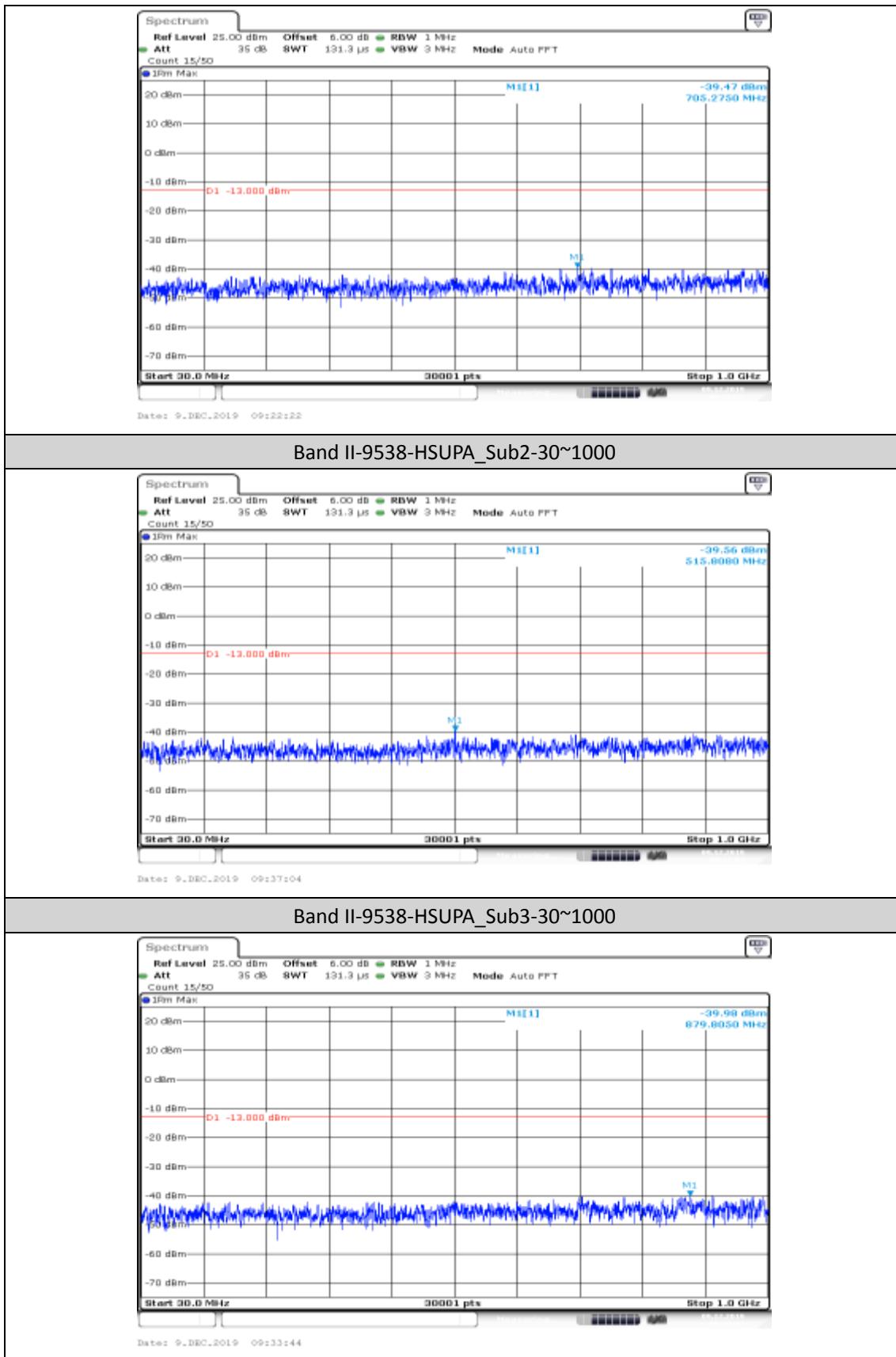
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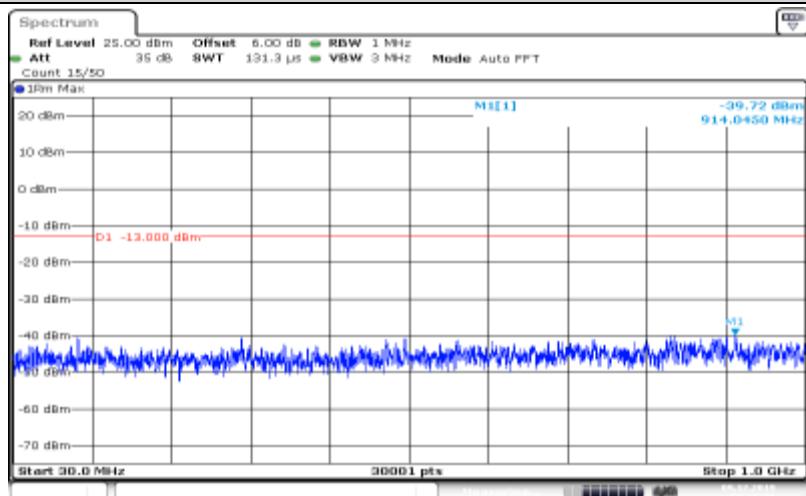


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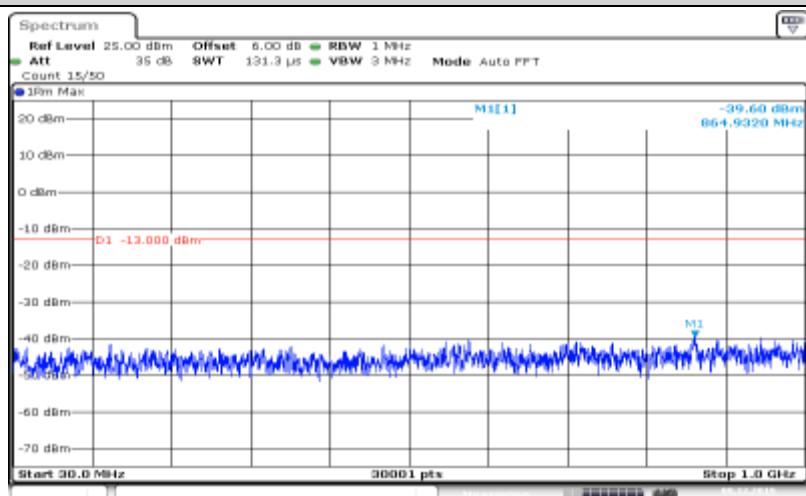
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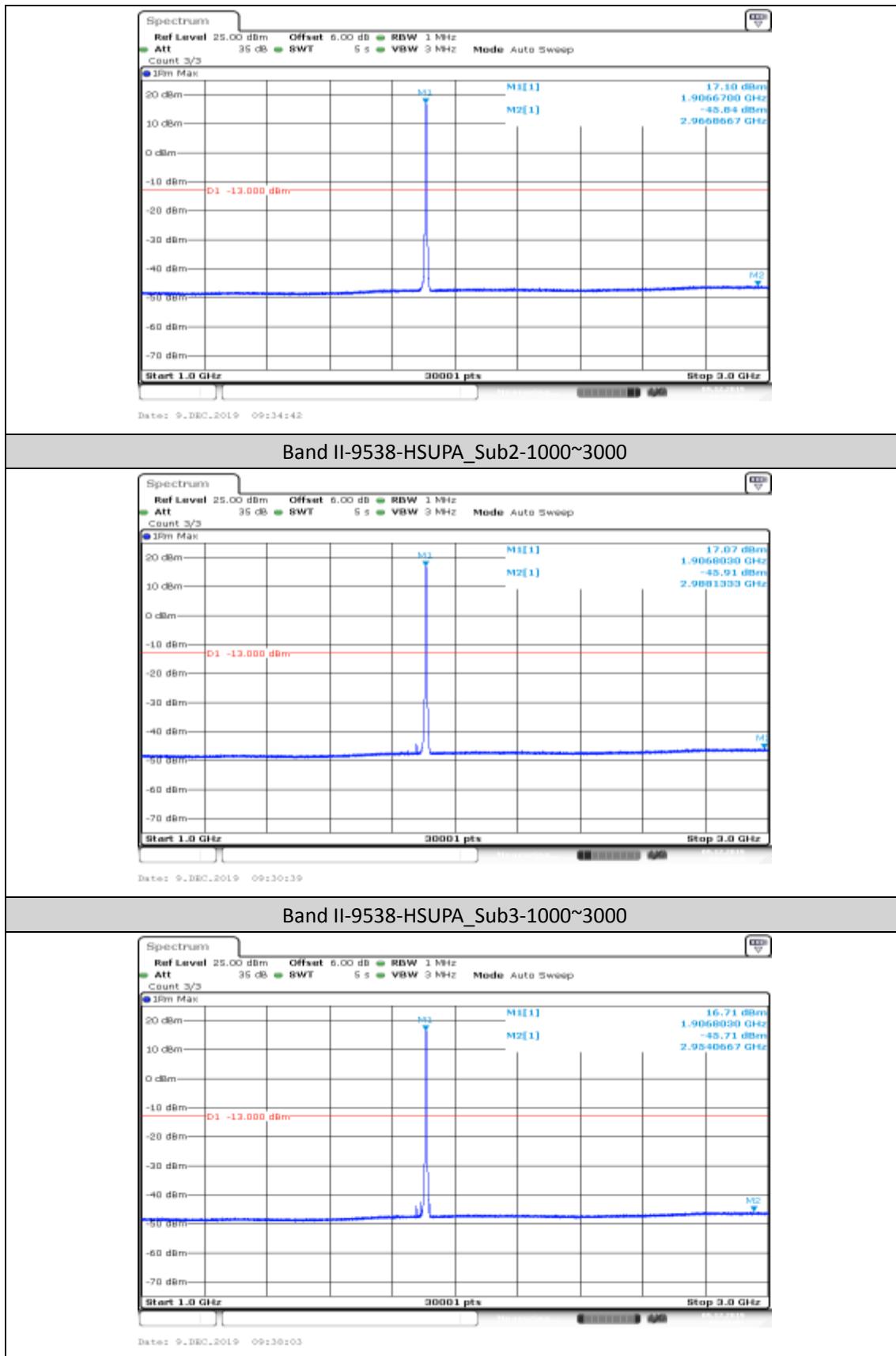
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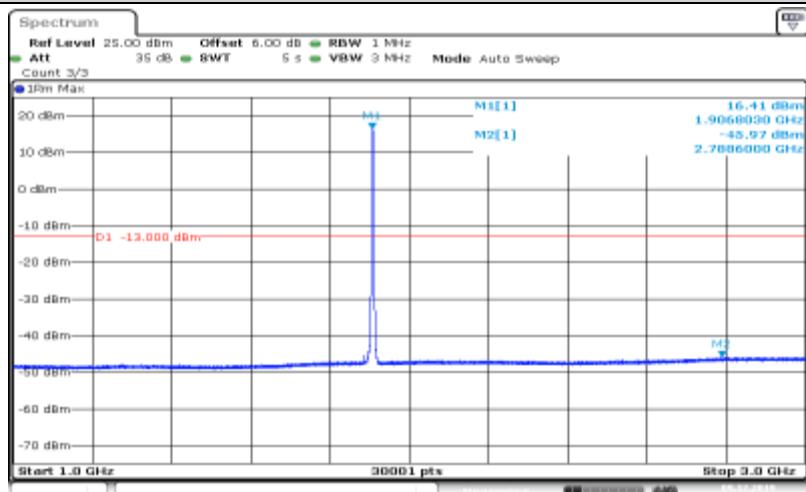
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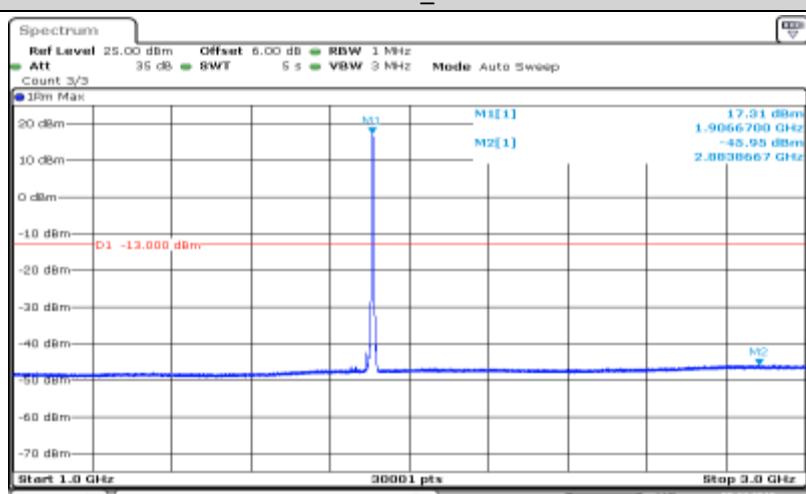
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Band II-9538-HSUPA_Sub4-1000~3000



Date: 9-DEC-2019 09:26:59

Band II-9538-HSUPA_Sub5-1000~3000



Date: 9-DEC-2019 09:23:21

Band II-9538-HSUPA_Sub1-3000~10000

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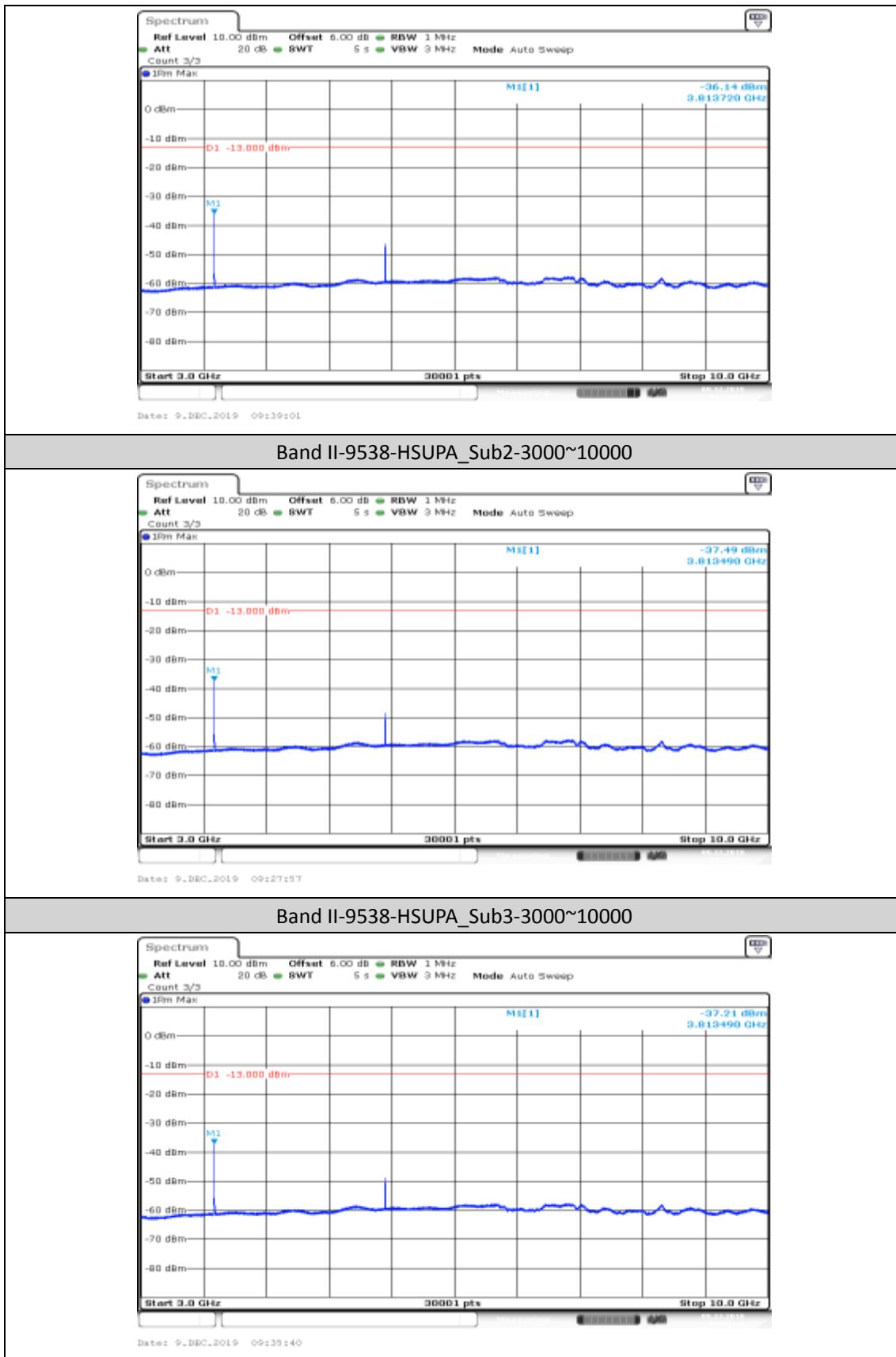
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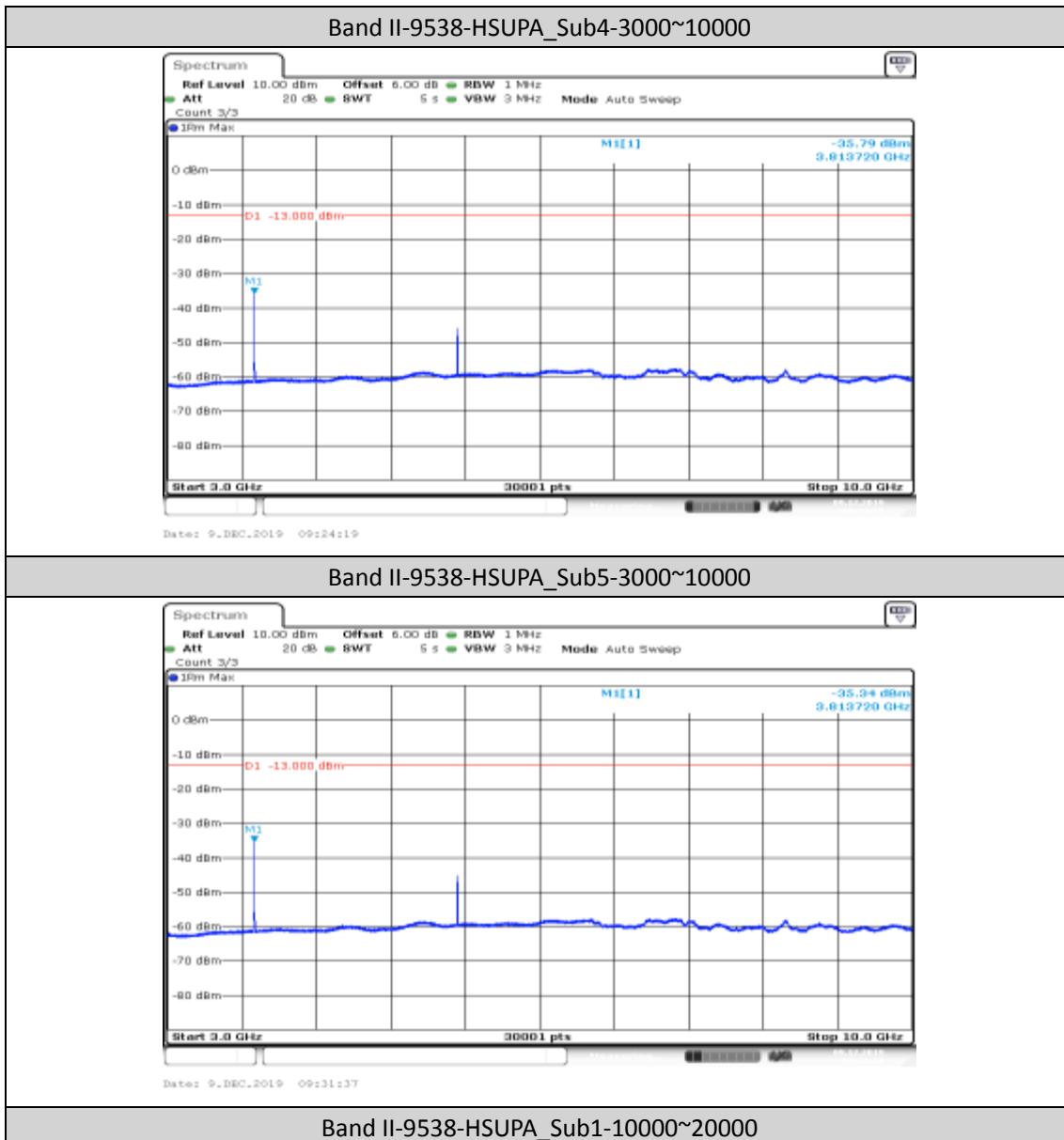
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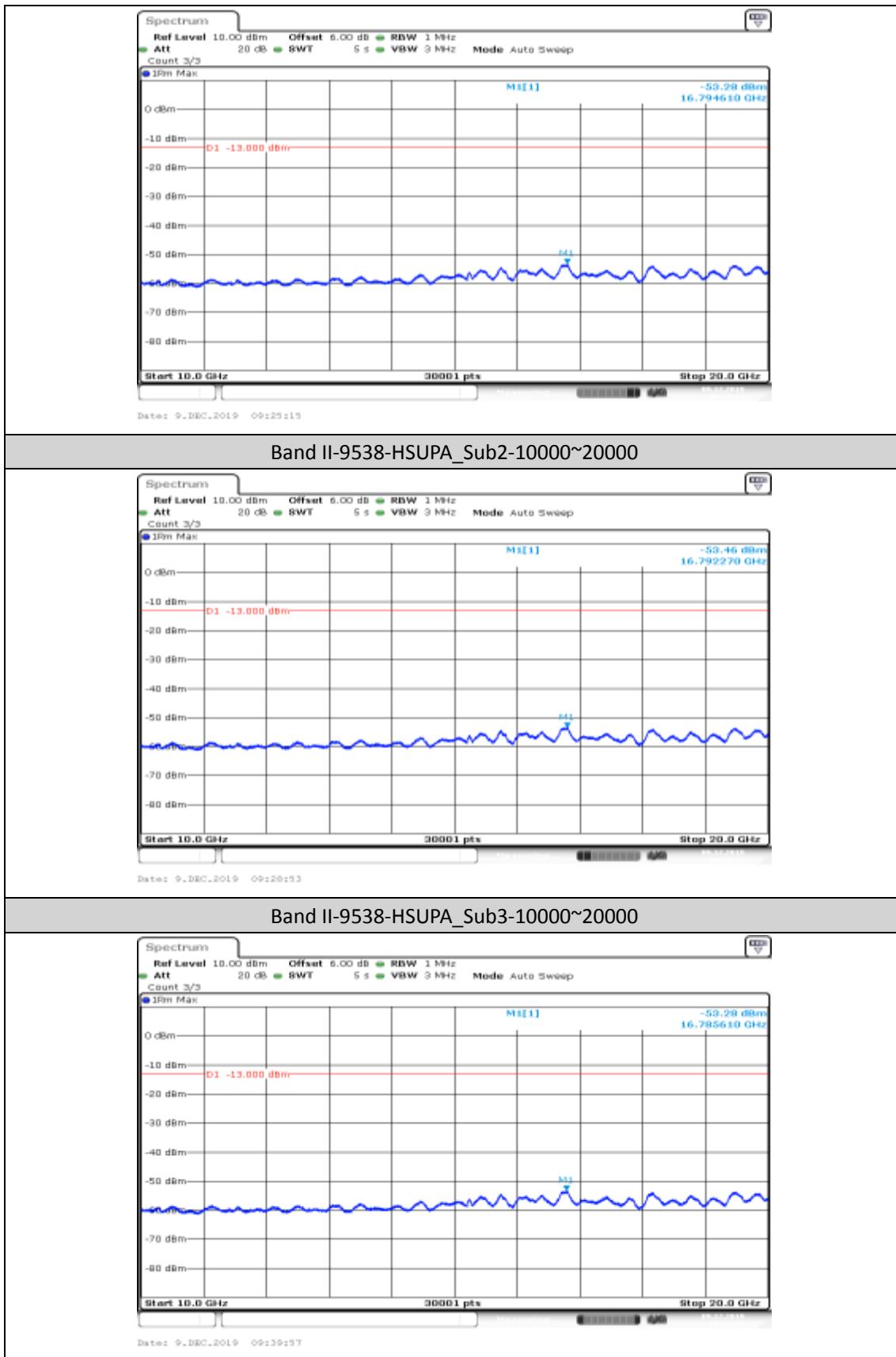
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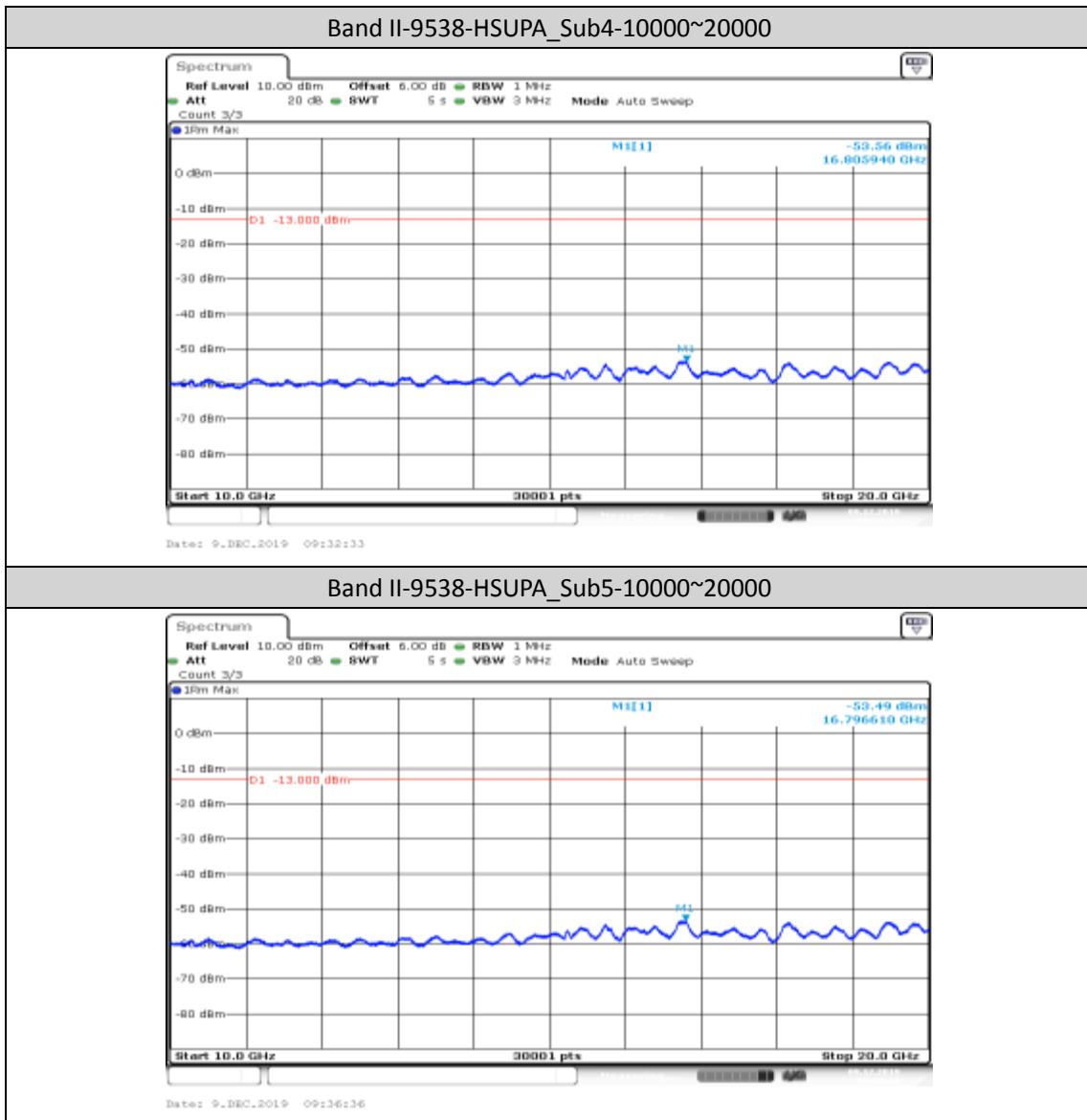
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Appendix F: Frequency Stability

Test Result

WCDMA:

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	3.48	0.001877	2.5	PASS
Band II	9262	VN	TN	3.60	0.001942	2.5	PASS
Band II	9262	VH	TN	3.69	0.001992	2.5	PASS
Band II	9400	VL	TN	-1.62	-0.000860	2.5	PASS
Band II	9400	VN	TN	-1.59	-0.000845	2.5	PASS
Band II	9400	VH	TN	-1.10	-0.000586	2.5	PASS
Band II	9538	VL	TN	-4.95	-0.002595	2.5	PASS
Band II	9538	VN	TN	-5.18	-0.002715	2.5	PASS
Band II	9538	VH	TN	-5.45	-0.002857	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperatur e (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	5.87	0.003166	2.5	PASS
Band II	9262	VN	-20	3.71	0.002000	2.5	PASS
Band II	9262	VN	-10	3.87	0.002089	2.5	PASS
Band II	9262	VN	0	3.89	0.002101	2.5	PASS
Band II	9262	VN	10	3.20	0.001726	2.5	PASS
Band II	9262	VN	20	1.24	0.000668	2.5	PASS
Band II	9400	VN	-30	-0.12	-0.000065	2.5	PASS
Band II	9400	VN	-20	-1.44	-0.000769	2.5	PASS
Band II	9400	VN	-10	-1.62	-0.000860	2.5	PASS
Band II	9400	VN	0	0.27	0.000145	2.5	PASS
Band II	9400	VN	10	-1.19	-0.000632	2.5	PASS
Band II	9400	VN	20	-2.07	-0.001100	2.5	PASS
Band II	9538	VN	-30	-4.90	-0.002568	2.5	PASS
Band II	9538	VN	-20	-4.92	-0.002580	2.5	PASS
Band II	9538	VN	-10	-5.91	-0.003097	2.5	PASS
Band II	9538	VN	0	-5.79	-0.003033	2.5	PASS
Band II	9538	VN	10	-5.65	-0.002962	2.5	PASS
Band II	9538	VN	20	-5.59	-0.002928	2.5	PASS

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HSDPA:

Voltage									
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band II	9262	HSDPA_Sub1	VL	TN	28.34	0.015297	2.5	PASS	
Band II	9262	HSDPA_Sub1	VN	TN	-73.38	-0.039613	2.5	PASS	
Band II	9262	HSDPA_Sub1	VH	TN	-79.42	-0.042875	2.5	PASS	
Band II	9262	HSDPA_Sub2	VL	TN	75.71	0.040874	2.5	PASS	
Band II	9262	HSDPA_Sub2	VN	TN	54.57	0.029457	2.5	PASS	
Band II	9262	HSDPA_Sub2	VH	TN	24.90	0.013443	2.5	PASS	
Band II	9262	HSDPA_Sub3	VL	TN	75.72	0.040877	2.5	PASS	
Band II	9262	HSDPA_Sub3	VN	TN	54.59	0.029459	2.5	PASS	
Band II	9262	HSDPA_Sub3	VH	TN	24.92	0.013445	2.5	PASS	
Band II	9262	HSDPA_Sub4	VL	TN	75.73	0.040876	2.5	PASS	
Band II	9262	HSDPA_Sub4	VN	TN	54.59	0.029459	2.5	PASS	
Band II	9262	HSDPA_Sub4	VH	TN	24.91	0.013445	2.5	PASS	
Band II	9400	HSDPA_Sub1	VL	TN	-52.09	-0.027709	2.5	PASS	
Band II	9400	HSDPA_Sub1	VN	TN	-22.80	-0.012126	2.5	PASS	
Band II	9400	HSDPA_Sub1	VH	TN	-33.11	-0.017613	2.5	PASS	
Band II	9400	HSDPA_Sub2	VL	TN	119.72	0.063681	2.5	PASS	
Band II	9400	HSDPA_Sub2	VN	TN	90.96	0.048382	2.5	PASS	
Band II	9400	HSDPA_Sub2	VH	TN	156.83	0.083420	2.5	PASS	
Band II	9400	HSDPA_Sub3	VL	TN	-52.11	-0.027711	2.5	PASS	
Band II	9400	HSDPA_Sub3	VN	TN	-22.82	-0.012129	2.5	PASS	
Band II	9400	HSDPA_Sub3	VH	TN	-33.13	-0.017618	2.5	PASS	
Band II	9400	HSDPA_Sub4	VL	TN	119.75	0.063685	2.5	PASS	
Band II	9400	HSDPA_Sub4	VN	TN	90.98	0.048387	2.5	PASS	
Band II	9400	HSDPA_Sub4	VH	TN	156.85	0.083425	2.5	PASS	
Band II	9538	HSDPA_Sub1	VL	TN	157.00	0.082301	2.5	PASS	
Band II	9538	HSDPA_Sub1	VN	TN	-55.95	-0.029332	2.5	PASS	
Band II	9538	HSDPA_Sub1	VH	TN	103.20	0.054097	2.5	PASS	
Band II	9538	HSDPA_Sub2	VL	TN	151.34	0.079334	2.5	PASS	
Band II	9538	HSDPA_Sub2	VN	TN	253.57	0.132927	2.5	PASS	
Band II	9538	HSDPA_Sub2	VH	TN	191.77	0.100531	2.5	PASS	
Band II	9538	HSDPA_Sub3	VL	TN	157.05	0.082304	2.5	PASS	
Band II	9538	HSDPA_Sub3	VN	TN	-55.97	-0.029337	2.5	PASS	
Band II	9538	HSDPA_Sub3	VH	TN	103.25	0.054099	2.5	PASS	
Band II	9538	HSDPA_Sub4	VL	TN	151.39	0.079337	2.5	PASS	
Band II	9538	HSDPA_Sub4	VN	TN	253.59	0.132929	2.5	PASS	

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Band II	9538	HSDPA_Sub4	VH	TN	191.78	0.100534	2.5	PASS
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Temperature								
Band	Chann el	SubTest	Voltag e (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	HSDPA_Sub1	VN	-30	97.27	0.052513	2.5	PASS
Band II	9262	HSDPA_Sub1	VN	-20	70.31	0.037958	2.5	PASS
Band II	9262	HSDPA_Sub1	VN	-10	58.59	0.031631	2.5	PASS
Band II	9262	HSDPA_Sub1	VN	0	44.49	0.024020	2.5	PASS
Band II	9262	HSDPA_Sub1	VN	10	-102.42	-0.055289	2.5	PASS
Band II	9262	HSDPA_Sub1	VN	20	12.77	0.006895	2.5	PASS
Band II	9262	HSDPA_Sub2	VN	-30	61.74	0.033328	2.5	PASS
Band II	9262	HSDPA_Sub2	VN	-20	21.01	0.011343	2.5	PASS
Band II	9262	HSDPA_Sub2	VN	-10	102.22	0.055182	2.5	PASS
Band II	9262	HSDPA_Sub2	VN	0	-25.13	-0.013567	2.5	PASS
Band II	9262	HSDPA_Sub2	VN	10	43.14	0.023287	2.5	PASS
Band II	9262	HSDPA_Sub2	VN	20	-256.13	-0.138271	2.5	PASS
Band II	9262	HSDPA_Sub3	VN	-30	5.80	0.003131	2.5	PASS
Band II	9262	HSDPA_Sub3	VN	-20	4.47	0.002413	2.5	PASS
Band II	9262	HSDPA_Sub3	VN	-10	4.27	0.002305	2.5	PASS
Band II	9262	HSDPA_Sub3	VN	0	3.18	0.001718	2.5	PASS
Band II	9262	HSDPA_Sub3	VN	10	1.73	0.000934	2.5	PASS
Band II	9262	HSDPA_Sub3	VN	20	5.33	0.002877	2.5	PASS
Band II	9262	HSDPA_Sub4	VN	-30	1.98	0.001070	2.5	PASS
Band II	9262	HSDPA_Sub4	VN	-20	4.34	0.002344	2.5	PASS
Band II	9262	HSDPA_Sub4	VN	-10	1.80	0.000973	2.5	PASS
Band II	9262	HSDPA_Sub4	VN	0	5.62	0.003035	2.5	PASS
Band II	9262	HSDPA_Sub4	VN	10	5.09	0.002745	2.5	PASS
Band II	9262	HSDPA_Sub4	VN	20	4.33	0.002340	2.5	PASS
Band II	9400	HSDPA_Sub1	VN	-30	107.16	0.057001	2.5	PASS
Band II	9400	HSDPA_Sub1	VN	-20	92.86	0.049396	2.5	PASS
Band II	9400	HSDPA_Sub1	VN	-10	146.87	0.078120	2.5	PASS
Band II	9400	HSDPA_Sub1	VN	0	28.85	0.015348	2.5	PASS
Band II	9400	HSDPA_Sub1	VN	10	27.19	0.014463	2.5	PASS
Band II	9400	HSDPA_Sub1	VN	20	2.32	0.001234	2.5	PASS
Band II	9400	HSDPA_Sub2	VN	-30	130.05	0.069176	2.5	PASS
Band II	9400	HSDPA_Sub2	VN	-20	167.89	0.089305	2.5	PASS

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Band II	9400	HSDPA_Sub2	VN	-10	284.09	0.151111	2.5	PASS
Band II	9400	HSDPA_Sub2	VN	0	101.18	0.053820	2.5	PASS
Band II	9400	HSDPA_Sub2	VN	10	171.52	0.091236	2.5	PASS
Band II	9400	HSDPA_Sub2	VN	20	247.88	0.131851	2.5	PASS
Band II	9400	HSDPA_Sub3	VN	-30	-0.76	-0.000403	2.5	PASS
Band II	9400	HSDPA_Sub3	VN	-20	-0.37	-0.000198	2.5	PASS
Band II	9400	HSDPA_Sub3	VN	-10	0.67	0.000354	2.5	PASS
Band II	9400	HSDPA_Sub3	VN	0	-3.15	-0.001678	2.5	PASS
Band II	9400	HSDPA_Sub3	VN	10	-3.45	-0.001838	2.5	PASS
Band II	9400	HSDPA_Sub3	VN	20	0.89	0.000476	2.5	PASS
Band II	9400	HSDPA_Sub4	VN	-30	-2.07	-0.001100	2.5	PASS
Band II	9400	HSDPA_Sub4	VN	-20	-2.25	-0.001195	2.5	PASS
Band II	9400	HSDPA_Sub4	VN	-10	-2.94	-0.001564	2.5	PASS
Band II	9400	HSDPA_Sub4	VN	0	-2.95	-0.001571	2.5	PASS
Band II	9400	HSDPA_Sub4	VN	10	0.00	0.000000	2.5	PASS
Band II	9400	HSDPA_Sub4	VN	20	-1.50	-0.000799	2.5	PASS
Band II	9538	HSDPA_Sub1	VN	-30	-117.51	-0.061600	2.5	PASS
Band II	9538	HSDPA_Sub1	VN	-20	-34.67	-0.018174	2.5	PASS
Band II	9538	HSDPA_Sub1	VN	-10	25.54	0.013390	2.5	PASS
Band II	9538	HSDPA_Sub1	VN	0	-52.51	-0.027524	2.5	PASS
Band II	9538	HSDPA_Sub1	VN	10	46.60	0.024429	2.5	PASS
Band II	9538	HSDPA_Sub1	VN	20	-100.89	-0.052889	2.5	PASS
Band II	9538	HSDPA_Sub2	VN	-30	224.01	0.117433	2.5	PASS
Band II	9538	HSDPA_Sub2	VN	-20	104.97	0.055025	2.5	PASS
Band II	9538	HSDPA_Sub2	VN	-10	164.70	0.086341	2.5	PASS
Band II	9538	HSDPA_Sub2	VN	0	169.13	0.088660	2.5	PASS
Band II	9538	HSDPA_Sub2	VN	10	221.19	0.115953	2.5	PASS
Band II	9538	HSDPA_Sub2	VN	20	28.67	0.015030	2.5	PASS
Band II	9538	HSDPA_Sub3	VN	-30	-5.34	-0.002801	2.5	PASS
Band II	9538	HSDPA_Sub3	VN	-20	-3.88	-0.002036	2.5	PASS
Band II	9538	HSDPA_Sub3	VN	-10	-3.00	-0.001575	2.5	PASS
Band II	9538	HSDPA_Sub3	VN	0	-5.74	-0.003007	2.5	PASS
Band II	9538	HSDPA_Sub3	VN	10	-2.27	-0.001189	2.5	PASS
Band II	9538	HSDPA_Sub3	VN	20	-2.20	-0.001151	2.5	PASS
Band II	9538	HSDPA_Sub4	VN	-30	-5.54	-0.002906	2.5	PASS
Band II	9538	HSDPA_Sub4	VN	-20	-2.52	-0.001320	2.5	PASS
Band II	9538	HSDPA_Sub4	VN	-10	-1.80	-0.000941	2.5	PASS
Band II	9538	HSDPA_Sub4	VN	0	-5.79	-0.003033	2.5	PASS
Band II	9538	HSDPA_Sub4	VN	10	-4.35	-0.002280	2.5	PASS

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Band II	9538	HSDPA_Sub4	VN	20	-2.98	-0.001560	2.5	PASS
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HSUPA:

Voltage									
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band II	9262	HSUPA_Sub1	VL	TN	-10.80	-0.005832	2.5	PASS	
Band II	9262	HSUPA_Sub1	VN	TN	63.72	0.034399	2.5	PASS	
Band II	9262	HSUPA_Sub1	VH	TN	-33.16	-0.017900	2.5	PASS	
Band II	9262	HSUPA_Sub2	VL	TN	1442.28	0.778599	2.5	PASS	
Band II	9262	HSUPA_Sub2	VN	TN	62.27	0.033616	2.5	PASS	
Band II	9262	HSUPA_Sub2	VH	TN	-66.19	-0.035733	2.5	PASS	
Band II	9262	HSUPA_Sub3	VL	TN	68.66	0.037068	2.5	PASS	
Band II	9262	HSUPA_Sub3	VN	TN	279.83	0.151064	2.5	PASS	
Band II	9262	HSUPA_Sub3	VH	TN	4.00	0.002158	2.5	PASS	
Band II	9262	HSUPA_Sub4	VL	TN	-137.19	-0.074062	2.5	PASS	
Band II	9262	HSUPA_Sub4	VN	TN	-97.27	-0.052513	2.5	PASS	
Band II	9262	HSUPA_Sub4	VH	TN	-62.10	-0.033526	2.5	PASS	
Band II	9262	HSUPA_Sub5	VL	TN	138.55	0.074795	2.5	PASS	
Band II	9262	HSUPA_Sub5	VN	TN	-194.50	-0.105001	2.5	PASS	
Band II	9262	HSUPA_Sub5	VH	TN	179.26	0.096772	2.5	PASS	
Band II	9400	HSUPA_Sub1	VL	TN	-18.05	-0.009602	2.5	PASS	
Band II	9400	HSUPA_Sub1	VN	TN	-28.11	-0.014950	2.5	PASS	
Band II	9400	HSUPA_Sub1	VH	TN	-8.93	-0.004748	2.5	PASS	
Band II	9400	HSUPA_Sub2	VL	TN	45.56	0.024236	2.5	PASS	
Band II	9400	HSUPA_Sub2	VN	TN	-0.60	-0.000317	2.5	PASS	
Band II	9400	HSUPA_Sub2	VH	TN	-30.81	-0.016387	2.5	PASS	
Band II	9400	HSUPA_Sub3	VL	TN	-6.21	-0.003303	2.5	PASS	
Band II	9400	HSUPA_Sub3	VN	TN	53.01	0.028196	2.5	PASS	
Band II	9400	HSUPA_Sub3	VH	TN	-939.00	-0.499466	2.5	PASS	
Band II	9400	HSUPA_Sub4	VL	TN	12.13	0.006453	2.5	PASS	
Band II	9400	HSUPA_Sub4	VN	TN	3.11	0.001656	2.5	PASS	
Band II	9400	HSUPA_Sub4	VH	TN	-29.19	-0.015527	2.5	PASS	
Band II	9400	HSUPA_Sub5	VL	TN	-5.16	-0.002743	2.5	PASS	
Band II	9400	HSUPA_Sub5	VN	TN	94.91	0.050484	2.5	PASS	
Band II	9400	HSUPA_Sub5	VH	TN	-70.51	-0.037506	2.5	PASS	
Band II	9538	HSUPA_Sub1	VL	TN	-81.21	-0.042570	2.5	PASS	
Band II	9538	HSUPA_Sub1	VN	TN	-118.24	-0.061984	2.5	PASS	
Band II	9538	HSUPA_Sub1	VH	TN	-11.67	-0.006119	2.5	PASS	
Band II	9538	HSUPA_Sub2	VL	TN	-1607.30	-0.842577	2.5	PASS	
Band II	9538	HSUPA_Sub2	VN	TN	29.79	0.015614	2.5	PASS	

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Band II	9538	HSUPA_Sub2	VH	TN	25.54	0.013390	2.5	PASS
Band II	9538	HSUPA_Sub3	VL	TN	-1605.01	-0.841377	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	TN	-2293.05	-1.202058	2.5	PASS
Band II	9538	HSUPA_Sub3	VH	TN	-2022.16	-1.060052	2.5	PASS
Band II	9538	HSUPA_Sub4	VL	TN	79.61	0.041730	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	TN	-21.67	-0.011359	2.5	PASS
Band II	9538	HSUPA_Sub4	VH	TN	82.03	0.043002	2.5	PASS
Band II	9538	HSUPA_Sub5	VL	TN	135.73	0.071151	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	TN	-71.14	-0.037291	2.5	PASS
Band II	9538	HSUPA_Sub5	VH	TN	164.06	0.086005	2.5	PASS

Temperature								
Band	Chann el	SubTest	Voltag e (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	HSUPA_Sub1	VN	-30	-81.62	-0.044061	2.5	PASS
Band II	9262	HSUPA_Sub1	VN	-20	48.45	0.026153	2.5	PASS
Band II	9262	HSUPA_Sub1	VN	-10	61.29	0.033089	2.5	PASS
Band II	9262	HSUPA_Sub1	VN	0	-20.80	-0.011227	2.5	PASS
Band II	9262	HSUPA_Sub1	VN	10	28.20	0.015223	2.5	PASS
Band II	9262	HSUPA_Sub1	VN	20	28.88	0.015593	2.5	PASS
Band II	9262	HSUPA_Sub2	VN	-30	-14.14	-0.007636	2.5	PASS
Band II	9262	HSUPA_Sub2	VN	-20	-19.68	-0.010626	2.5	PASS
Band II	9262	HSUPA_Sub2	VN	-10	-23.57	-0.012727	2.5	PASS
Band II	9262	HSUPA_Sub2	VN	0	15.96	0.008616	2.5	PASS
Band II	9262	HSUPA_Sub2	VN	10	-13.82	-0.007463	2.5	PASS
Band II	9262	HSUPA_Sub2	VN	20	-3.19	-0.001722	2.5	PASS
Band II	9262	HSUPA_Sub3	VN	-30	446.21	0.240884	2.5	PASS
Band II	9262	HSUPA_Sub3	VN	-20	-146.96	-0.079334	2.5	PASS
Band II	9262	HSUPA_Sub3	VN	-10	318.34	0.171855	2.5	PASS
Band II	9262	HSUPA_Sub3	VN	0	-95.83	-0.051730	2.5	PASS
Band II	9262	HSUPA_Sub3	VN	10	-19.73	-0.010651	2.5	PASS
Band II	9262	HSUPA_Sub3	VN	20	-36.03	-0.019448	2.5	PASS
Band II	9262	HSUPA_Sub4	VN	-30	6.76	0.003649	2.5	PASS
Band II	9262	HSUPA_Sub4	VN	-20	43.14	0.023287	2.5	PASS
Band II	9262	HSUPA_Sub4	VN	-10	74.72	0.040338	2.5	PASS
Band II	9262	HSUPA_Sub4	VN	0	-121.81	-0.065758	2.5	PASS
Band II	9262	HSUPA_Sub4	VN	10	190.29	0.102727	2.5	PASS
Band II	9262	HSUPA_Sub4	VN	20	113.43	0.061236	2.5	PASS
Band II	9262	HSUPA_Sub5	VN	-30	-10.03	-0.005412	2.5	PASS

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Band II	9262	HSUPA_Sub5	VN	-20	138.90	0.074984	2.5	PASS
Band II	9262	HSUPA_Sub5	VN	-10	121.49	0.065585	2.5	PASS
Band II	9262	HSUPA_Sub5	VN	0	-175.83	-0.094918	2.5	PASS
Band II	9262	HSUPA_Sub5	VN	10	51.97	0.028056	2.5	PASS
Band II	9262	HSUPA_Sub5	VN	20	-49.80	-0.026887	2.5	PASS
Band II	9400	HSUPA_Sub1	VN	-30	73.09	0.038877	2.5	PASS
Band II	9400	HSUPA_Sub1	VN	-20	-5.97	-0.003174	2.5	PASS
Band II	9400	HSUPA_Sub1	VN	-10	40.44	0.021508	2.5	PASS
Band II	9400	HSUPA_Sub1	VN	0	-2.38	-0.001266	2.5	PASS
Band II	9400	HSUPA_Sub1	VN	10	0.69	0.000365	2.5	PASS
Band II	9400	HSUPA_Sub1	VN	20	-31.13	-0.016557	2.5	PASS
Band II	9400	HSUPA_Sub2	VN	-30	-17.81	-0.009472	2.5	PASS
Band II	9400	HSUPA_Sub2	VN	-20	-8.15	-0.004334	2.5	PASS
Band II	9400	HSUPA_Sub2	VN	-10	-21.38	-0.011371	2.5	PASS
Band II	9400	HSUPA_Sub2	VN	0	-40.24	-0.021403	2.5	PASS
Band II	9400	HSUPA_Sub2	VN	10	32.27	0.017166	2.5	PASS
Band II	9400	HSUPA_Sub2	VN	20	19.87	0.010568	2.5	PASS
Band II	9400	HSUPA_Sub3	VN	-30	-141.86	-0.075458	2.5	PASS
Band II	9400	HSUPA_Sub3	VN	-20	-455.98	-0.242542	2.5	PASS
Band II	9400	HSUPA_Sub3	VN	-10	-127.90	-0.068031	2.5	PASS
Band II	9400	HSUPA_Sub3	VN	0	101.85	0.054177	2.5	PASS
Band II	9400	HSUPA_Sub3	VN	10	-841.08	-0.447383	2.5	PASS
Band II	9400	HSUPA_Sub3	VN	20	-18.36	-0.009764	2.5	PASS
Band II	9400	HSUPA_Sub4	VN	-30	25.22	0.013416	2.5	PASS
Band II	9400	HSUPA_Sub4	VN	-20	-97.90	-0.052075	2.5	PASS
Band II	9400	HSUPA_Sub4	VN	-10	-196.58	-0.104563	2.5	PASS
Band II	9400	HSUPA_Sub4	VN	0	-54.93	-0.029219	2.5	PASS
Band II	9400	HSUPA_Sub4	VN	10	-146.58	-0.077966	2.5	PASS
Band II	9400	HSUPA_Sub4	VN	20	1.56	0.000828	2.5	PASS
Band II	9400	HSUPA_Sub5	VN	-30	145.11	0.077187	2.5	PASS
Band II	9400	HSUPA_Sub5	VN	-20	183.01	0.097348	2.5	PASS
Band II	9400	HSUPA_Sub5	VN	-10	12.65	0.006728	2.5	PASS
Band II	9400	HSUPA_Sub5	VN	0	73.43	0.039056	2.5	PASS
Band II	9400	HSUPA_Sub5	VN	10	-39.35	-0.020932	2.5	PASS
Band II	9400	HSUPA_Sub5	VN	20	122.18	0.064988	2.5	PASS
Band II	9538	HSUPA_Sub1	VN	-30	-30.32	-0.015894	2.5	PASS
Band II	9538	HSUPA_Sub1	VN	-20	-10.62	-0.005567	2.5	PASS
Band II	9538	HSUPA_Sub1	VN	-10	73.27	0.038411	2.5	PASS
Band II	9538	HSUPA_Sub1	VN	0	14.86	0.007791	2.5	PASS

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Band II	9538	HSUPA_Sub1	VN	10	-56.50	-0.029620	2.5	PASS
Band II	9538	HSUPA_Sub1	VN	20	60.78	0.031860	2.5	PASS
Band II	9538	HSUPA_Sub2	VN	-30	55.13	0.028900	2.5	PASS
Band II	9538	HSUPA_Sub2	VN	-20	12.05	0.006319	2.5	PASS
Band II	9538	HSUPA_Sub2	VN	-10	-86.52	-0.045354	2.5	PASS
Band II	9538	HSUPA_Sub2	VN	0	1620.67	0.849584	2.5	PASS
Band II	9538	HSUPA_Sub2	VN	10	-10.35	-0.005423	2.5	PASS
Band II	9538	HSUPA_Sub2	VN	20	24.09	0.012630	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	-30	-1499.65	-0.786144	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	-20	-1692.54	-0.887259	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	-10	-1726.75	-0.905193	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	0	-1738.46	-0.911336	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	10	-1665.89	-0.873293	2.5	PASS
Band II	9538	HSUPA_Sub3	VN	20	-1786.97	-0.936765	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	-30	-95.67	-0.050153	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	-20	-8.42	-0.004415	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	-10	7.10	0.003720	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	0	60.17	0.031540	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	10	-6.16	-0.003232	2.5	PASS
Band II	9538	HSUPA_Sub4	VN	20	-45.52	-0.023861	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	-30	-17.12	-0.008975	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	-20	84.15	0.044114	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	-10	3.80	0.001992	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	0	48.86	0.025613	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	10	50.03	0.026229	2.5	PASS
Band II	9538	HSUPA_Sub5	VN	20	-22.66	-0.011878	2.5	PASS

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