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6.2 Maximum Conducted Output Power

Result

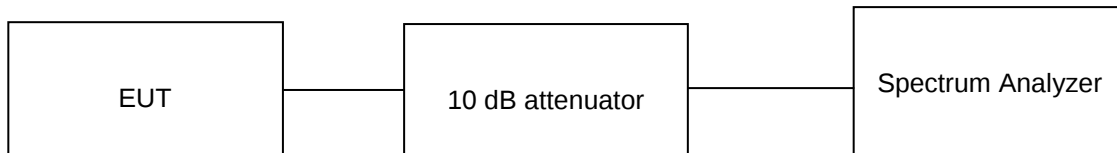
Pass

Test Specification FCC Part 15 Subpart E

Measurement Bandwidth (RBW) 1 MHz

Requirement For the 5.25-5.35 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

Test Method:



Environmental and Test conditions:

Normal Temperature = +25 °C

Voltage (V norm) = 12 V DC

RH = 63.2 %

Test results:

Note : Test was performed on both the transmit chains (Chain 1 and Chain 2) and worst case results have been reported.

10 dB attenuator + 1 dB Cable loss = 11 dB offset is considered in below results

Modulation: 802.11a

Data Rate (Mbps)	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)
6	5180	16.85	24
	5240	16.75	24
	5745	14.01	24
	5825	12.94	24
24	5180	16.76	24
	5240	16.74	24
	5745	13.99	24
	5825	12.82	24
54	5180	15.79	24
	5240	15.71	24
	5745	12.96	24
	5825	11.81	24

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Modulation: 802.11ac mode SISO_VHT20

Modes	Data Rate(Mbps)	Frequency (MHz)	Measured Power(dBm)	Limit (dBm)
VHT20	MCS0	5180	15.00	24
		5240	14.90	24
		5745	10.94	24
		5825	11.90	24
	MCS5	5180	14.98	24
		5240	14.83	24
		5745	10.87	24
		5825	11.83	24
	MCS8	5180	12.12	24
		5240	14.92	24
		5745	10.97	24
		5825	11.91	24

Modulation: 802.11ac mode SISO_VHT40

Modes	Data Rate(Mbps)	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)
VHT40	MCS0	5190	11.85	24
		5230	13.66	24
		5755	11.73	24
		5795	11.70	24
	MCS5	5190	13.90	24
		5230	13.78	24
		5755	11.86	24
		5795	11.83	24
	MCS9	5190	14.59	24
		5230	14.48	24
		5755	12.55	24
		5795	12.55	24

Modulation: 802.11ac mode SISO_VHT80

Modes	Data Rate (Mbps)	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)
VHT80	MCS0	5210	11.78	24
		5775	12.63	24
	MCS5	5210	12.12	24
		5775	12.93	24
	MCS9	5210	11.84	24
		5775	12.67	24

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Modulation: 802.11ac mode MIMO_VHT20

Mode	Data rate(Mbps)	Channel frequency (MHz)	Chain1 power (dBm)	Chain2 Power (dBm)	Total Measured Power (dBm)	Limit (dBm)
VHT20	MCS0	5180	14.87	16.22	19.33	24
		5240	14.71	15.89	19.07	24
		5745	10.39	12.23	15.14	24
		5825	11.35	13.17	16.09	24
	MCS5	5180	13.59	14.78	20.38	24
		5240	13.40	14.44	20.11	24
		5745	9.05	10.87	16.21	24
		5825	9.96	11.92	17.21	24
	MCS8	5180	13.40	14.37	20.94	24
		5240	12.94	14.17	20.62	24
		5745	8.85	10.44	16.74	24
		5825	9.84	11.44	17.74	24

Modulation: 802.11ac mode MIMO_VHT40

Mode	Data rate(Mbps)	Channel frequency (MHz)	Chain1 power(dBm)	Chain2 power(dBm)	Total Measured Power (dBm)	Limit (dBm)
VHT40	MCS0	5190	11.53	12.88	16.48	24
		5230	13.06	14.76	18.21	24
		5755	11.07	12.87	16.28	24
		5795	10.97	12.91	16.27	24
	MCS5	5190	9.66	11.01	17.83	24
		5230	11.49	12.87	19.68	24
		5755	9.25	11.06	17.70	24
		5795	9.20	11.06	17.68	24
	MCS9	5190	11.43	12.58	19.94	24
		5230	11.08	12.56	19.78	24
		5755	9.12	10.61	17.82	24
		5795	9.07	10.68	17.84	24

Modulation: 802.11ac mode MIMO_VHT80

Mode	Data rate(Mbps)	Channel frequency (MHz)	Chain1 power(dBm)	Chain2 power(dBm)	Total Measured Power (dBm)	Limit (dBm)
VHT80	MCS0	5210	11.01	12.26	16.56	24
		5775	11.38	13.12	17.22	24
	MCS5	5210	9.02	10.37	20.13	24
		5775	9.44	11.24	20.81	24
	MCS9	5210	8.31	9.99	18.96	24
		5775	9.07	10.83	19.77	24

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Modulation: 802.11n mode SISO_HT20

Modes	Data Rate(Mbps)	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)
HT20	MCS0	5180	15.14	24
		5240	15.12	24
		5745	13.20	24
		5825	13.01	24
	MCS4	5180	15.10	24
		5240	15.09	24
		5745	13.18	24
		5825	12.96	24
	MCS7	5180	15.06	24
		5240	14.95	24
		5745	13.01	24
		5825	12.96	24

Modulation: 802.11n mode SISO_HT40

Modes	Data Rate(Mbps)	Frequency (MHz)	Measured Power (dBm)	Limit (dBm)
HT40	MCS0	5190	13.94	24
		5230	14.85	24
		5755	12.95	24
		5795	12.89	24
	MCS4	5190	11.55	24
		5230	11.45	24
		5755	7.35	24
		5795	7.33	24
	MCS7	5190	11.58	24
		5230	11.54	24
		5755	9.35	24
		5795	9.36	24

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Modulation: 802.11n mode MIMO_HT20

Mode	Data rate(Mbps)	Channel frequency (MHz)	Chain1 power(dBm)	Chain2 power(dBm)	Total Measured Power (dBm)	Limit (dBm)
HT20	MCS8	5180	14.49	16.09	19.16	24
		5240	14.62	15.82	19.06	24
		5745	12.37	14.11	17.13	24
		5825	12.77	14.16	17.32	24
	MCS11	5180	13.75	15.51	19.47	24
		5240	13.97	15.18	19.37	24
		5745	11.69	13.43	17.40	24
		5825	12.01	13.42	17.53	24
	MCS15	5180	12.85	14.48	19.40	24
		5240	13.09	14.32	19.41	24
		5745	10.83	12.54	17.43	24
		5825	11.17	12.52	17.56	24

Modulation: 802.11n mode MIMO_HT40

Mode	Data rate(Mbps)	Channel frequency (MHz)	Chain1 power(dBm)	Chain2 power(dBm)	Total Measured Power (dBm)	Limit (dBm)
HT40	MCS8	5190	11.42	12.85	16.41	24
		5230	13.07	14.64	18.14	24
		5755	11.00	12.93	16.29	24
		5795	11.03	12.89	16.28	24
	MCS11	5190	9.89	11.70	17.23	24
		5230	11.96	13.62	19.21	24
		5755	9.89	11.69	17.22	24
		5795	9.87	11.74	17.24	24
	MCS15	5190	9.36	10.79	18.60	24
		5230	10.95	12.67	20.37	24
		5755	8.95	10.81	18.45	24
		5795	9.00	10.80	18.46	24

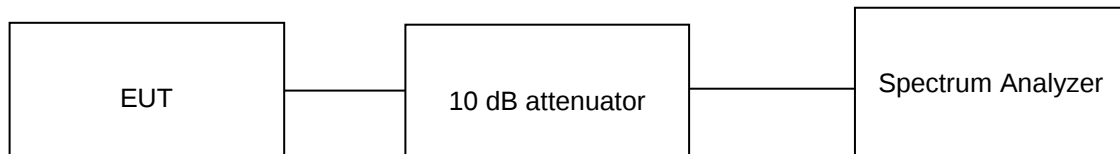
6.3 Maximum power spectral density

Result

Pass

Test Specification FCC Part 15 Section 15.407 (a)
Requirement The peak power spectral density shall not exceed 11 dBm in any 1-MHz band

Test Method:



Environmental and Test conditions:

Normal Temperature = +25 °C Voltage (V norm) = 12 V DC RH = 63.2 %

Test results:

Note : Test was performed on both the transmit chains (Chain 1 and Chain 2) and worst case results have been reported.

10 dB attenuator + 1 dB Cable loss = 11 dB offset is considered in below result

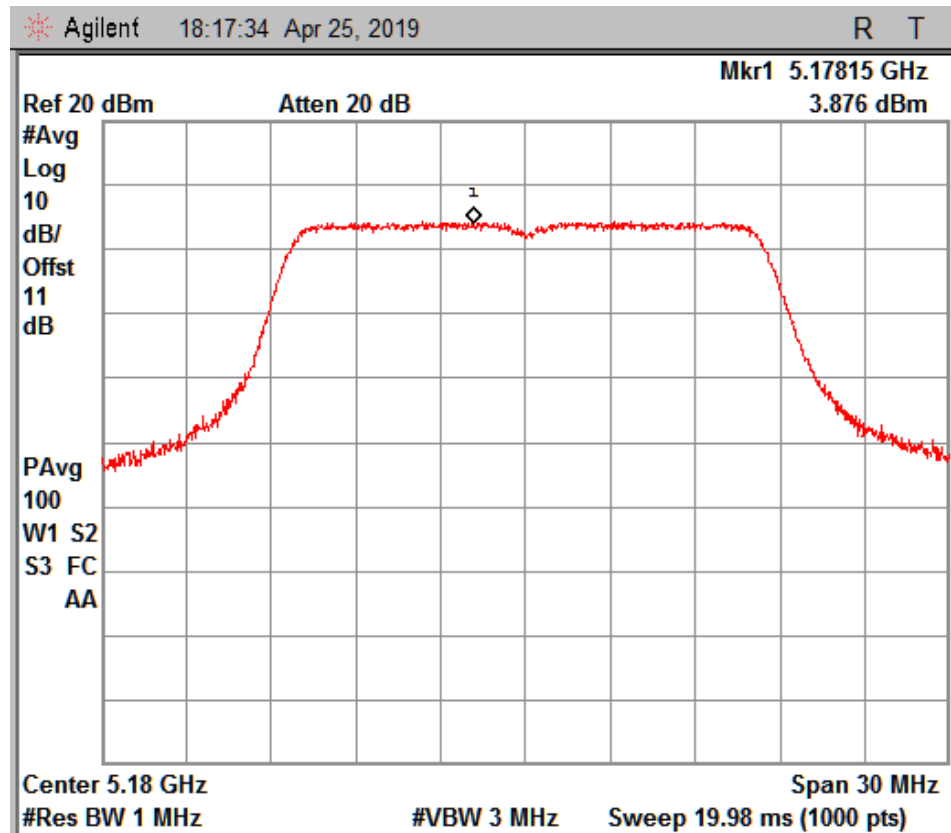
Modulation: 802.11a

Data Rate (Mbps)	Frequency (MHz)	PSD (dBm)	Limit (dBm)
6	5180	3.87	11
	5240	3.42	11
	5745	-1.29	11
	5825	-2.15	11
24	5180	4.09	11
	5240	3.15	11
	5745	-1.44	11
	5825	-2.31	11
54	5180	3.65	11
	5240	2.77	11
	5745	-2.08	11
	5825	-2.89	11

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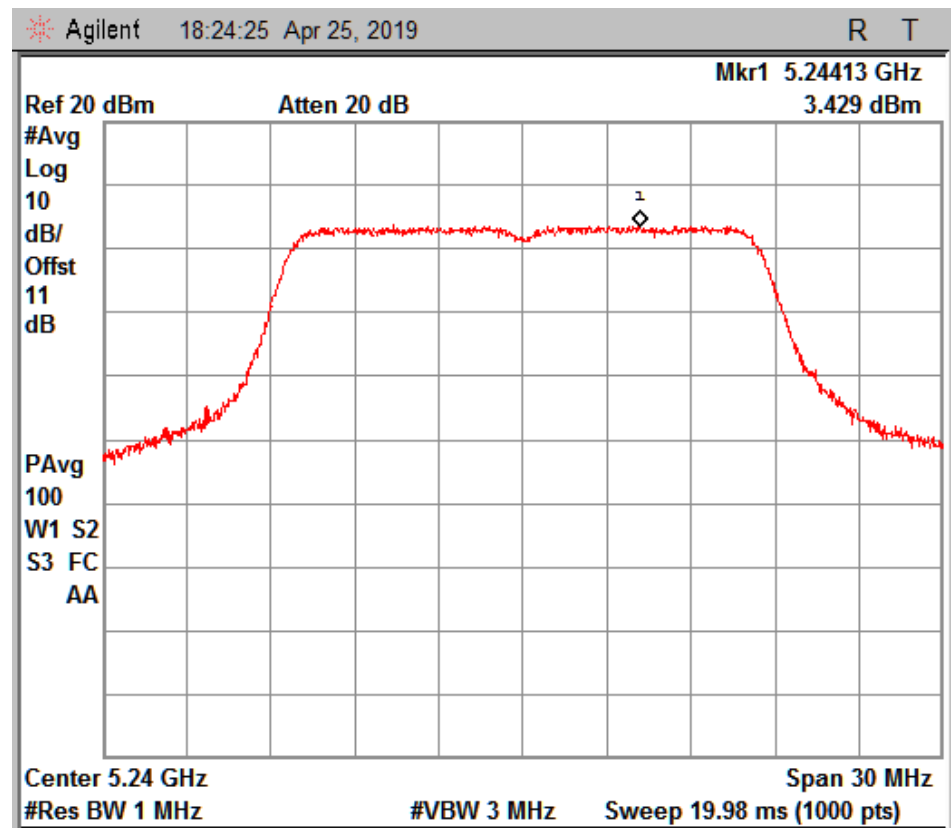
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Data rate: 6Mbps

Channel Frequency : 5.180 GHz



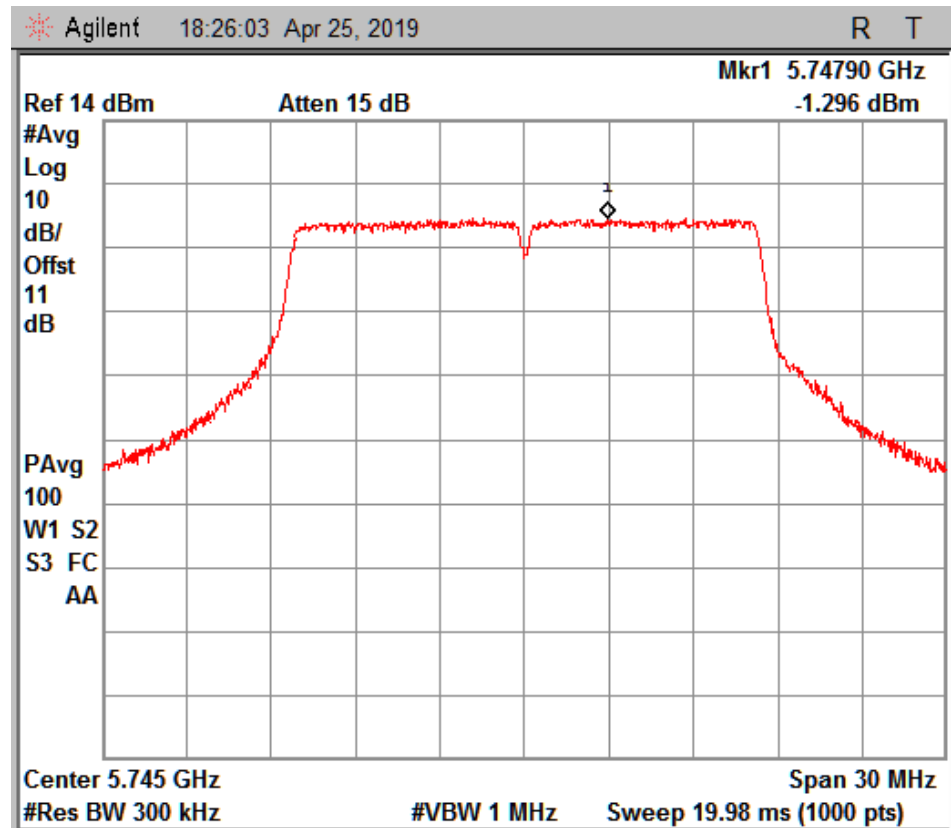
Data rate: 6Mbps

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
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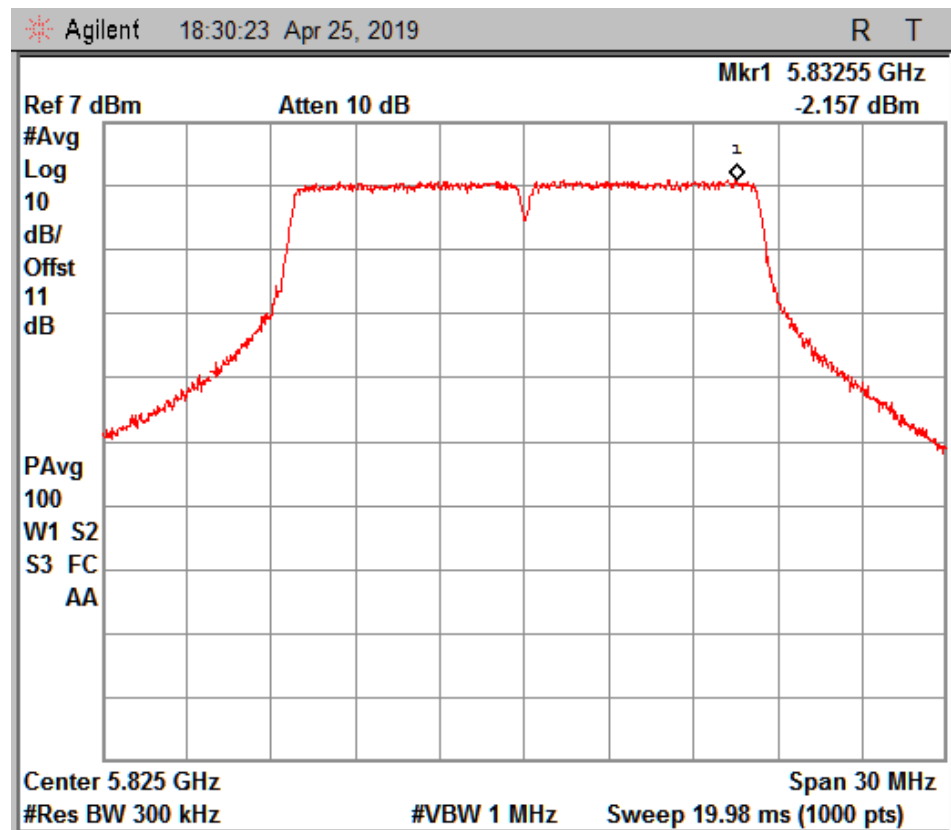
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Data rate: 6Mbps

Channel Frequency : 5.745 GHz



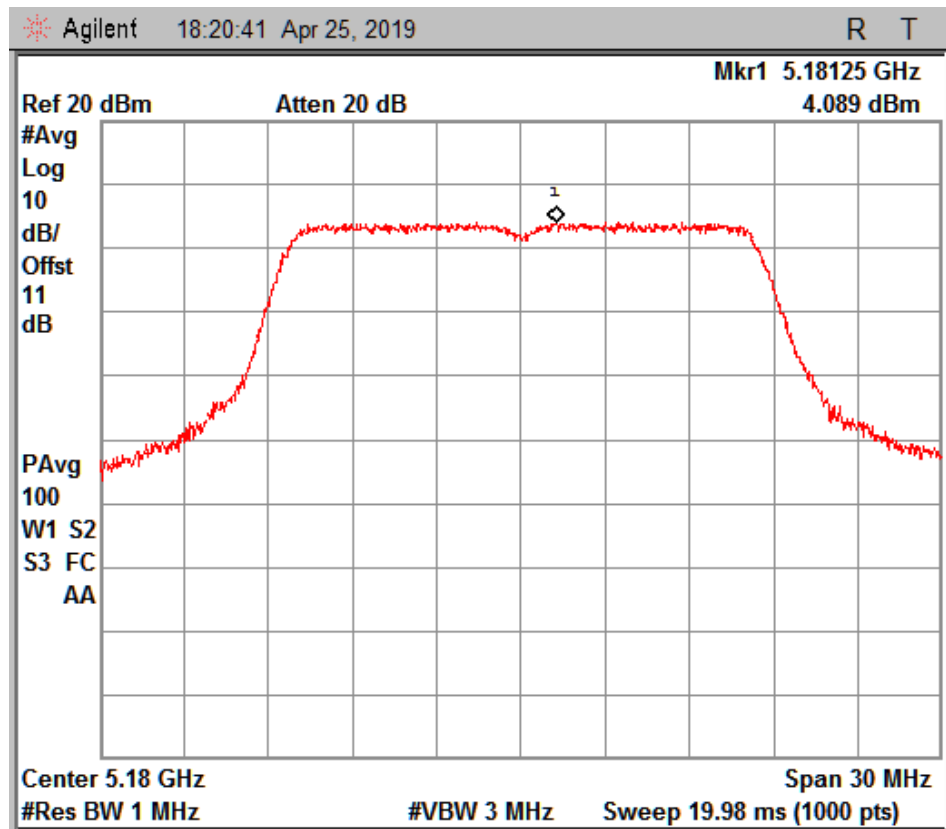
Data rate: 6Mbps

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
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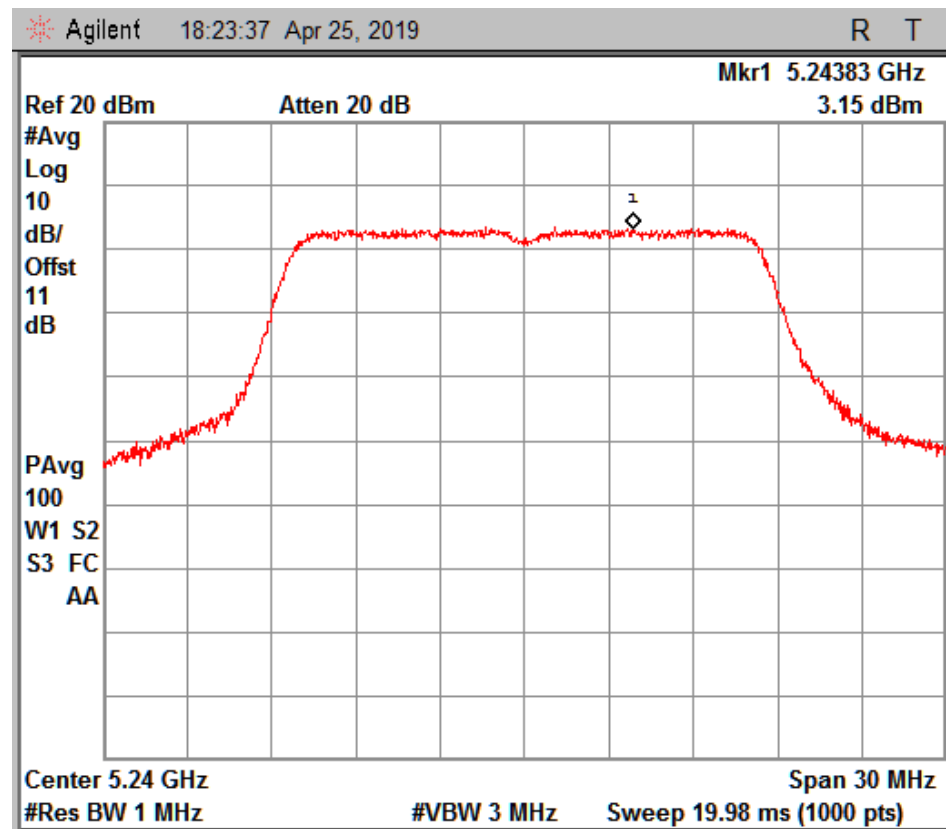
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Data rate: 24Mbps

Channel Frequency : 5.180 GHz



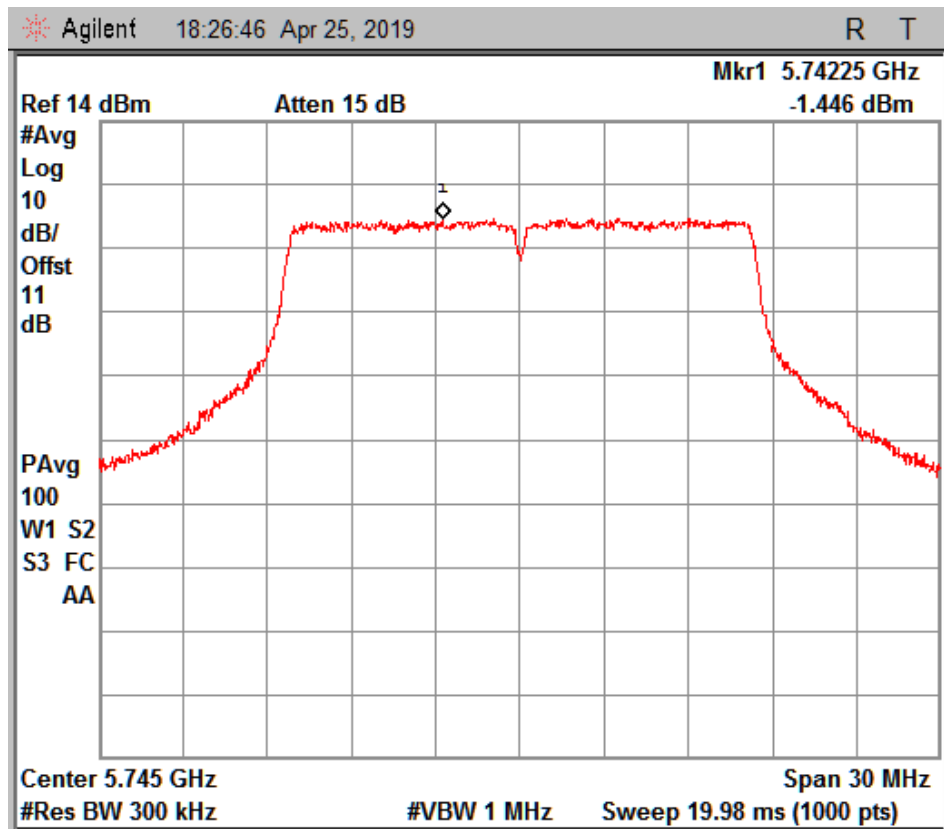
Data rate: 24Mbps

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
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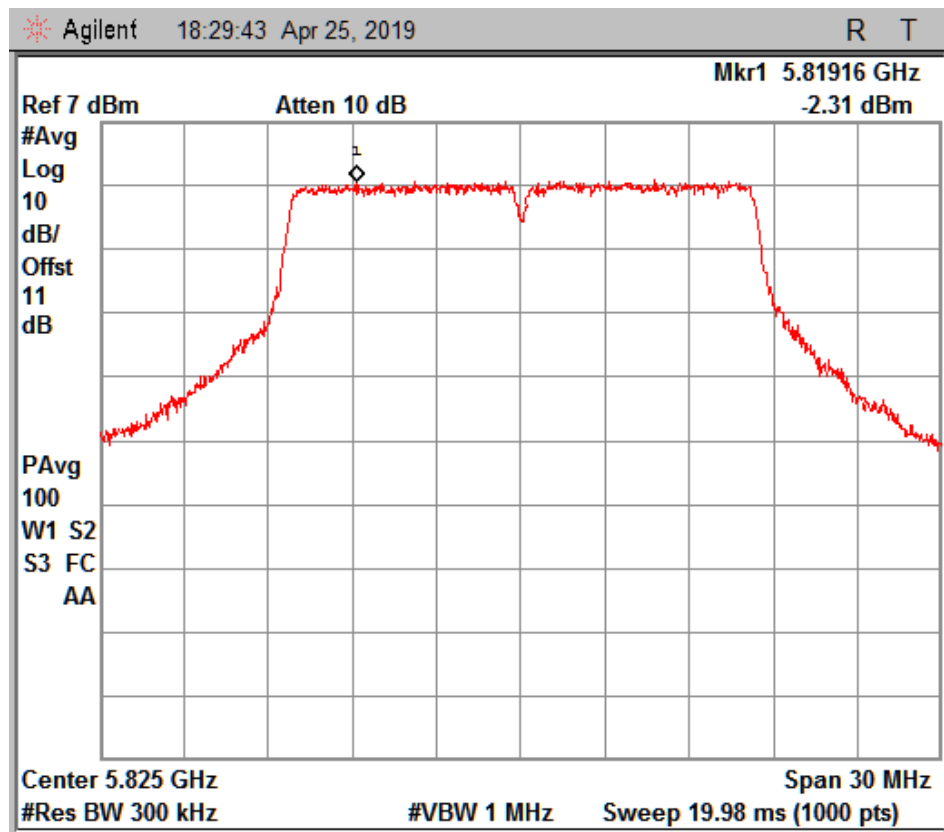
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Data rate: 24Mbps

Channel Frequency : 5.745 GHz



Data rate: 24Mbps

Channel Frequency : 5.825 GHz

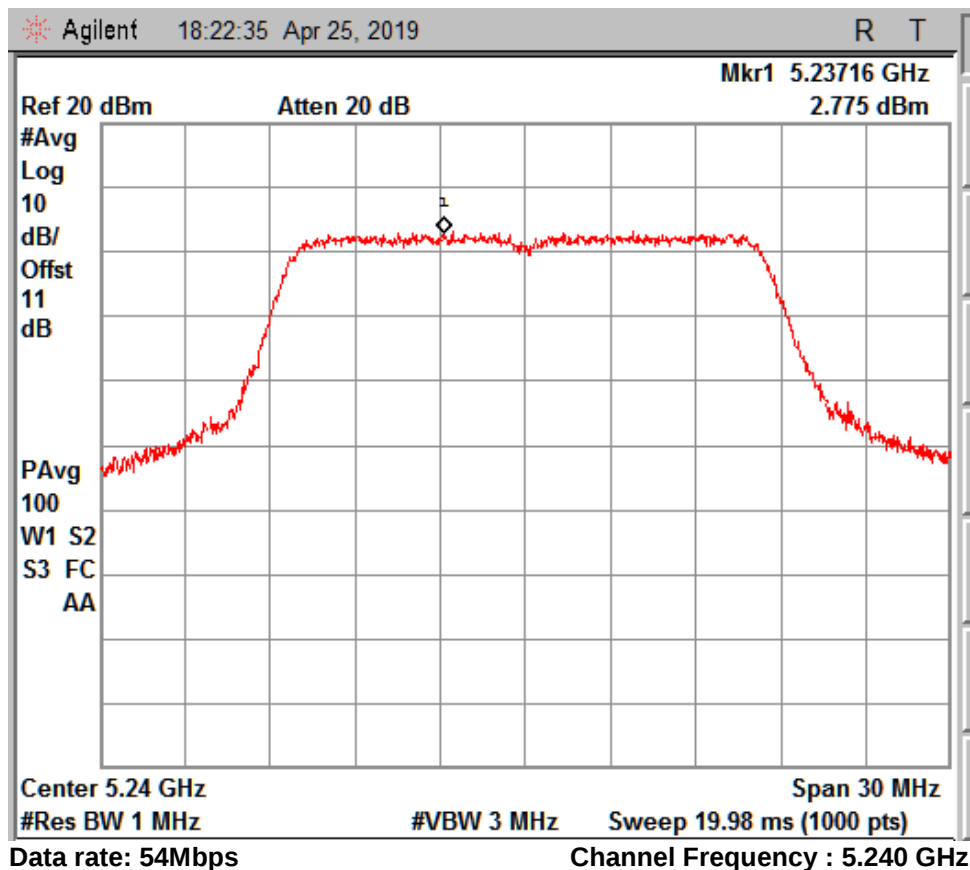
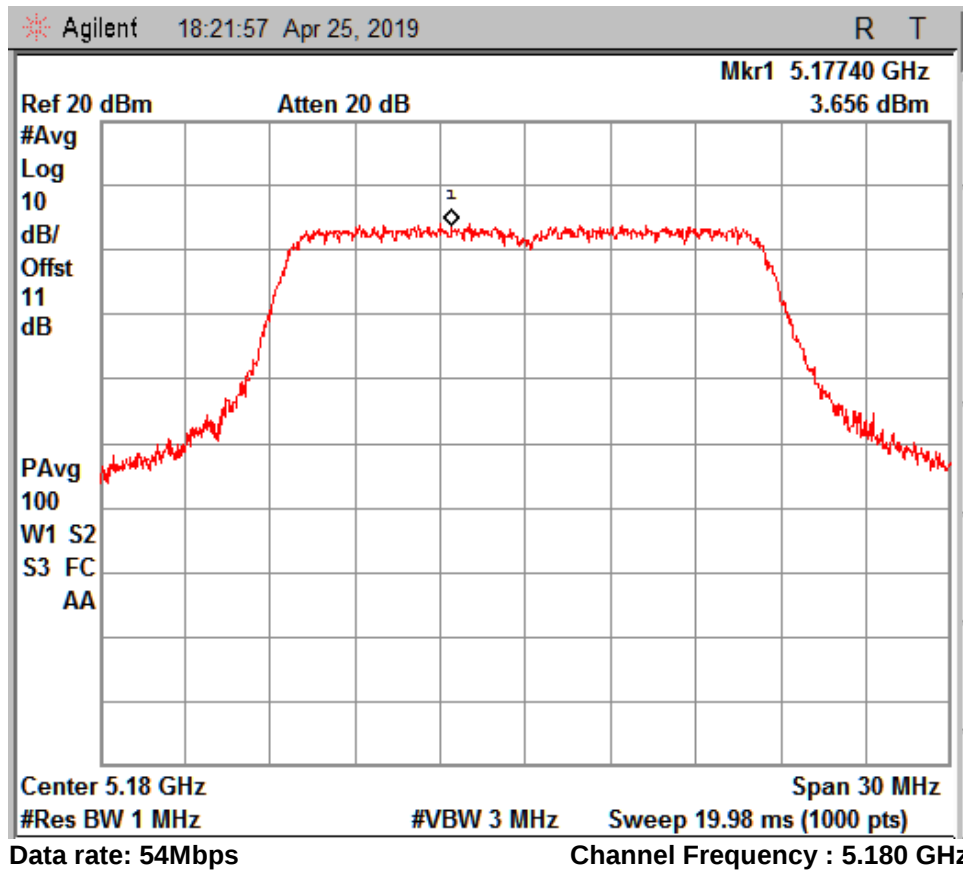
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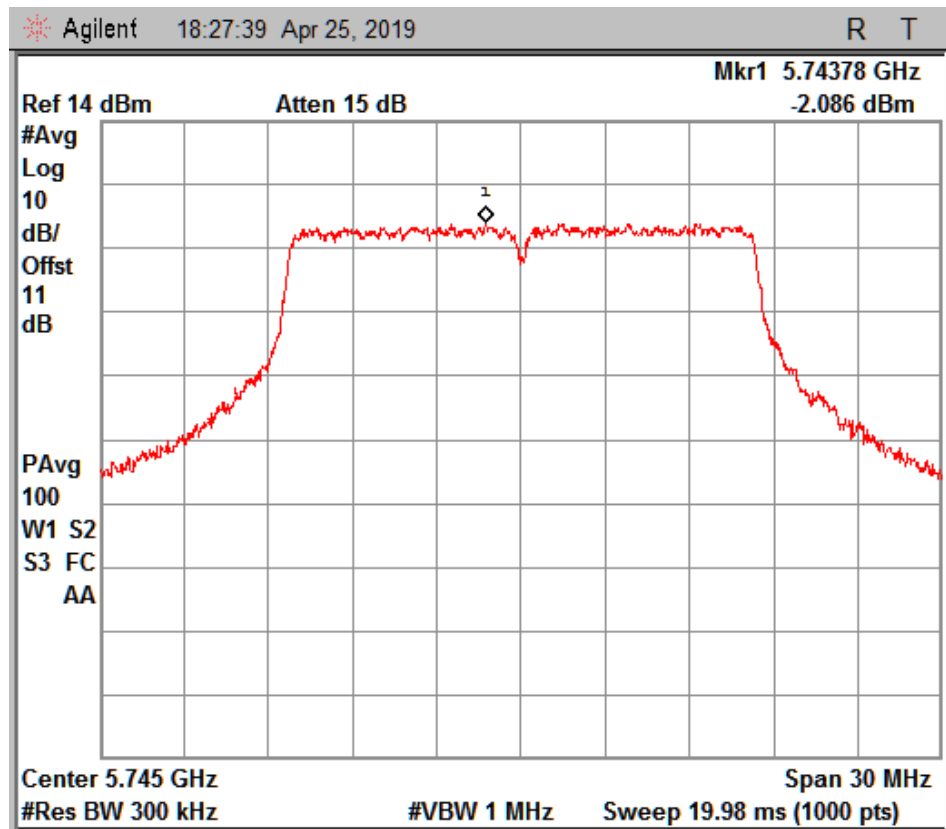
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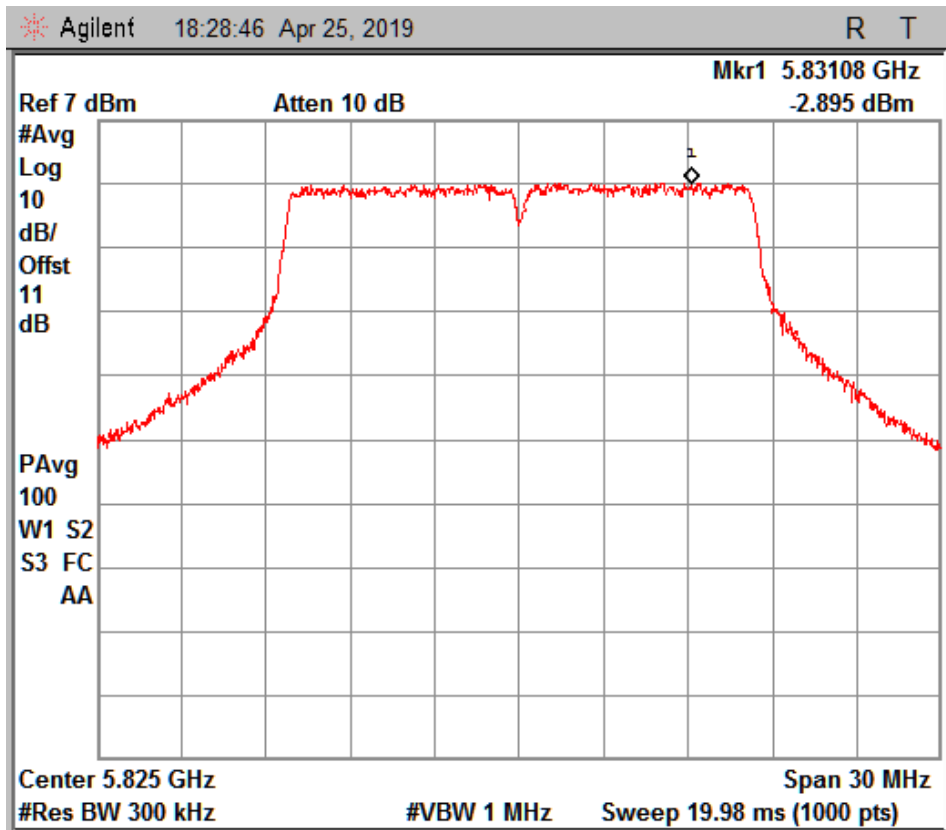
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Data rate: 54Mbps

Channel Frequency : 5.745 GHz



Data rate: 54Mbps

Channel Frequency : 5.825 GHz

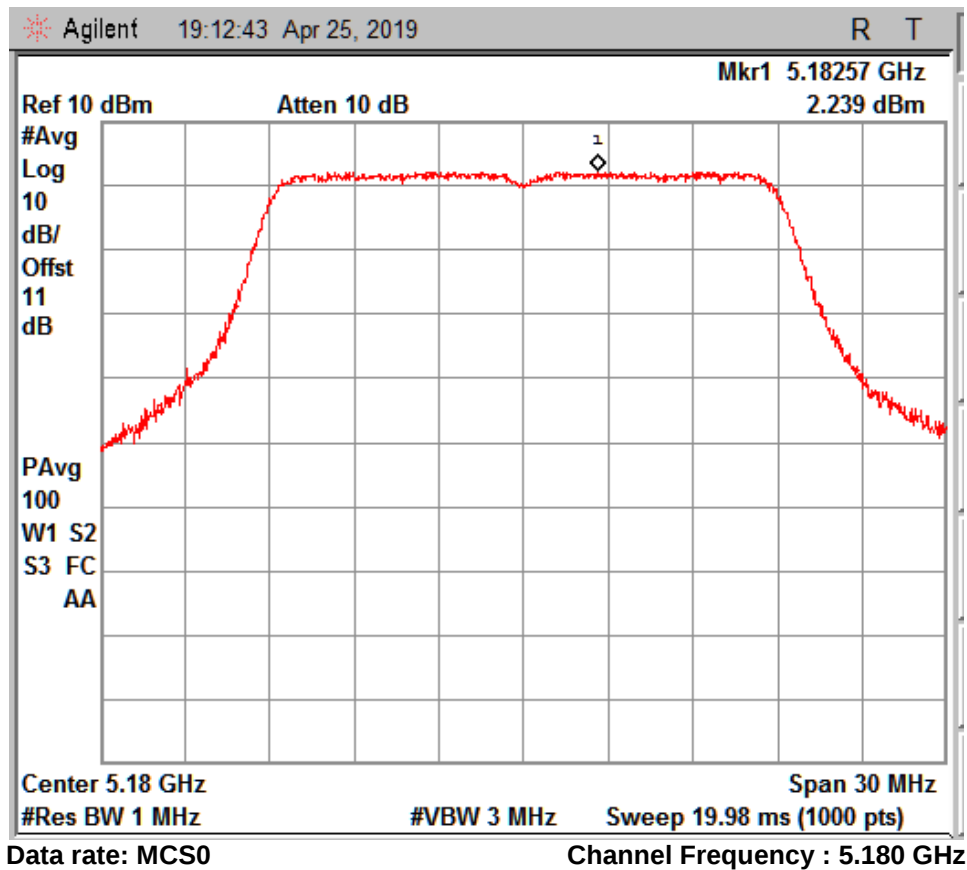
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Modulation: 802.11ac mode SISO_VHT20

Data Rate	Frequency (MHz)	PSD (dBm)	Limit (dBm)
MCS0	5180	2.23	11
	5240	1.49	11
	5745	-5.23	11
	5825	-3.41	11
MCS5	5180	1.82	11
	5240	1.02	11
	5745	-5.30	11
	5825	-4.02	11
MCS8	5180	1.49	11
	5240	1.24	11
	5745	-5.64	11
	5825	-6.27	11



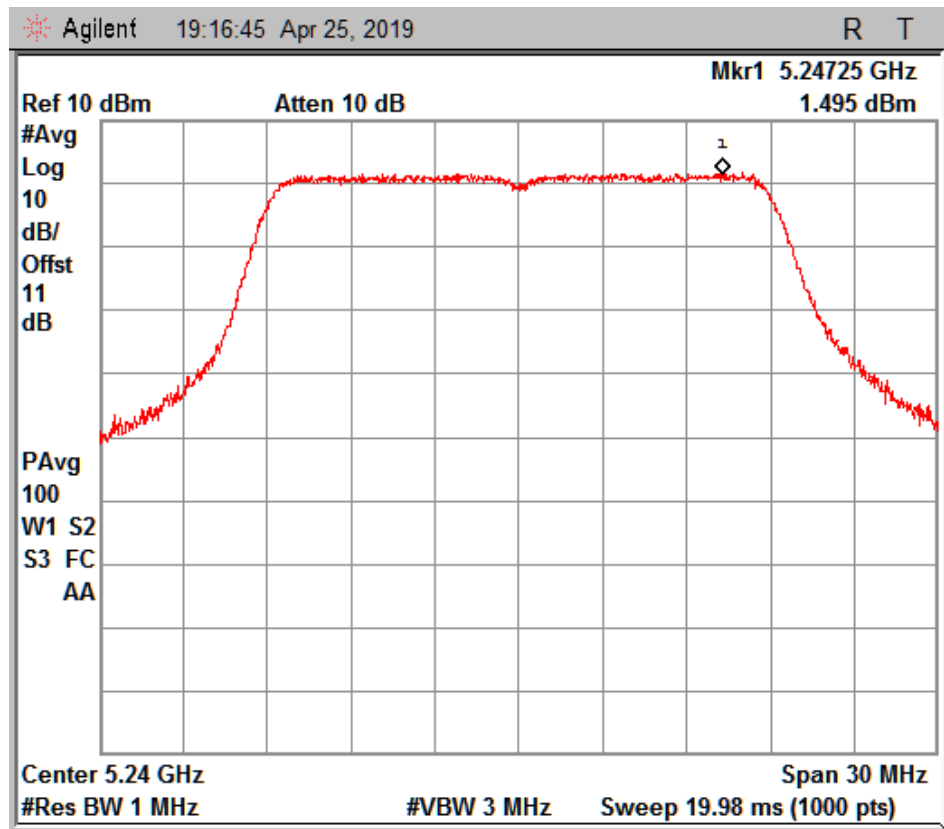
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Test Report No.:

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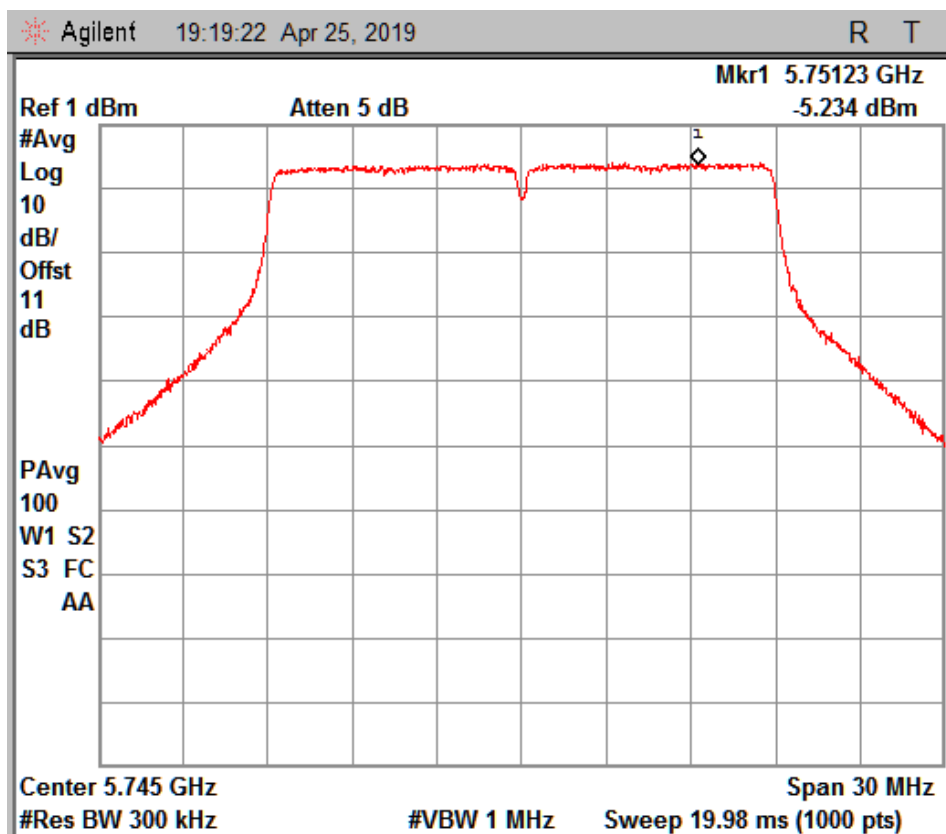
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Data rate: MCS0

Channel Frequency : 5.240 GHz



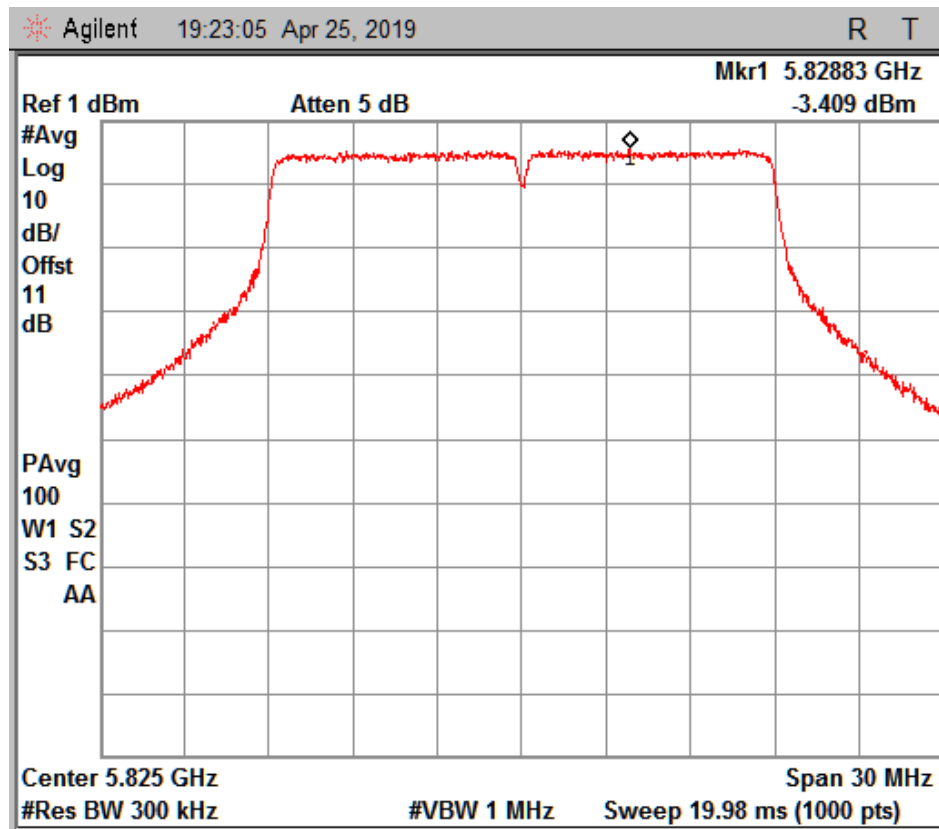
Data rate: MCS0

Channel Frequency : 5.745 GHz

Prüfbericht - Nr.:
Test Report No.:

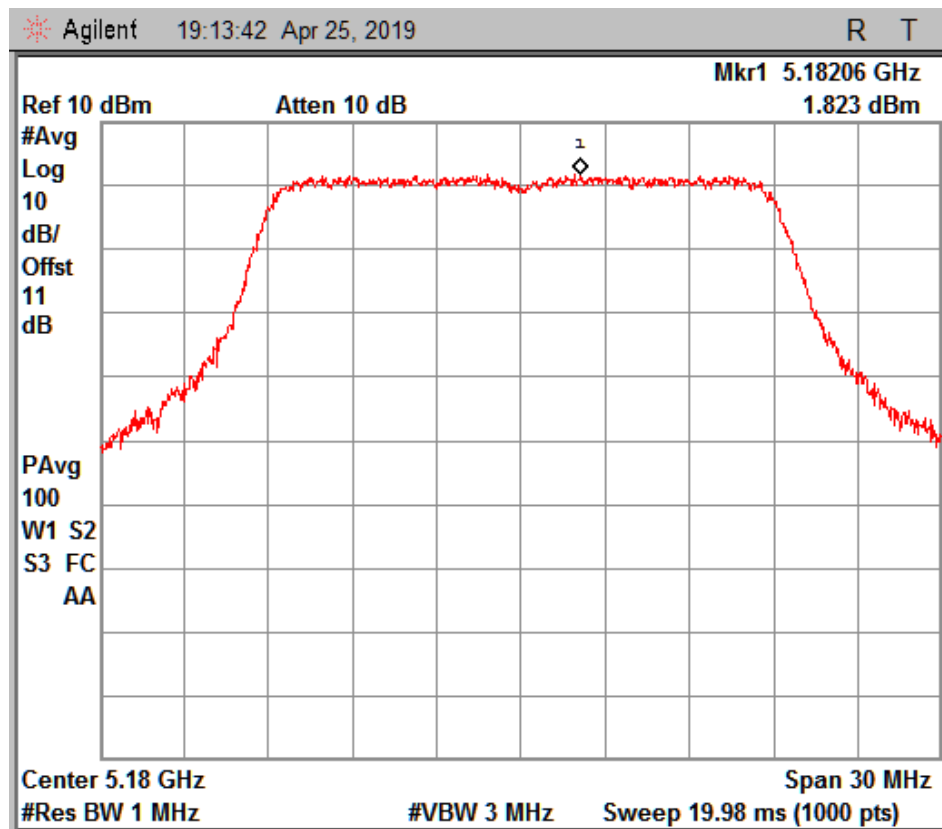
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Data rate: MCS0

Channel Frequency : 5.825 GHz



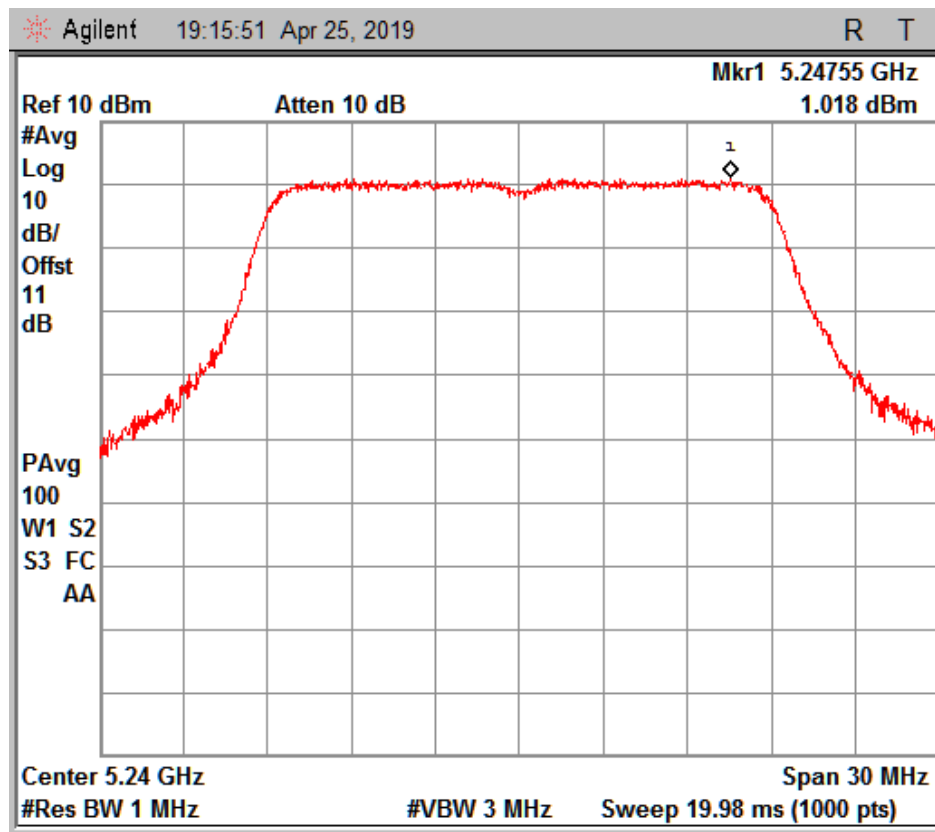
Data rate: MCS5

Channel Frequency : 5.180 GHz

Prüfbericht - Nr.:
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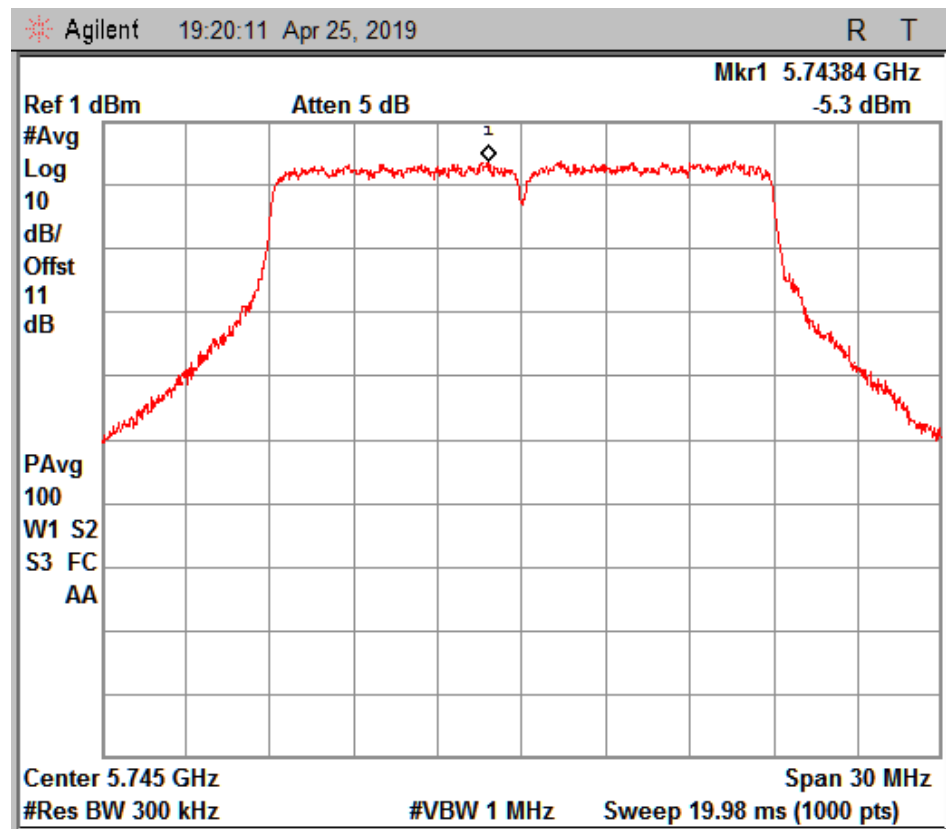
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Data rate: MCS5

Channel Frequency : 5.240 GHz



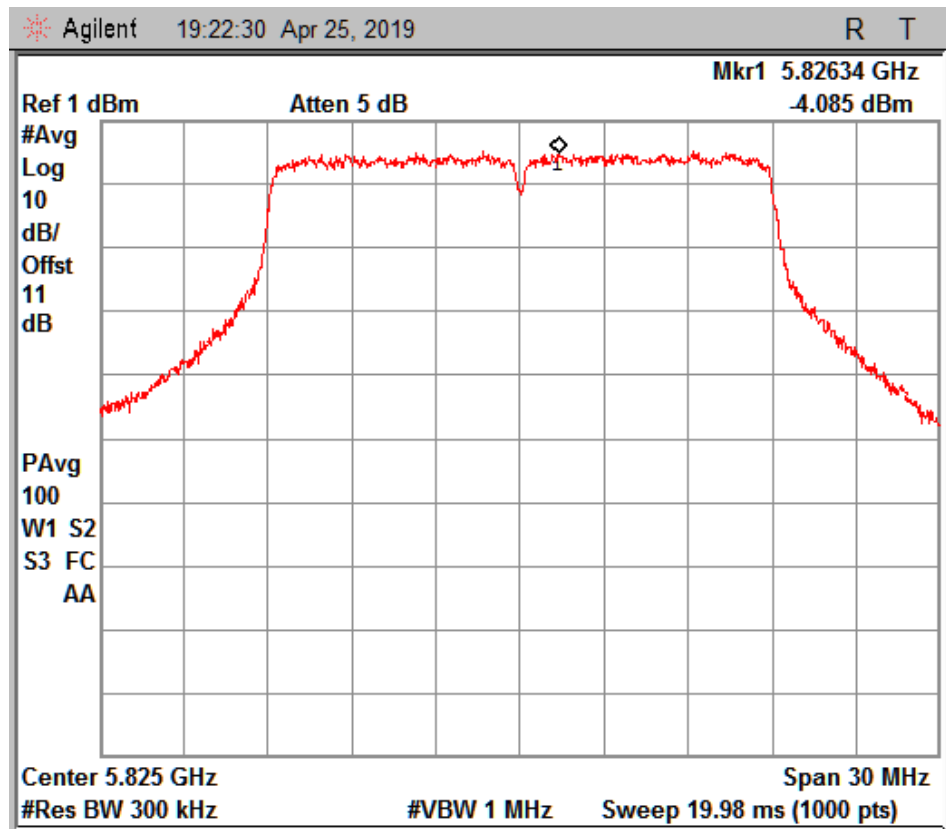
Data rate: MCS5

Channel Frequency : 5.745 GHz

Prüfbericht - Nr.:
Test Report No.:

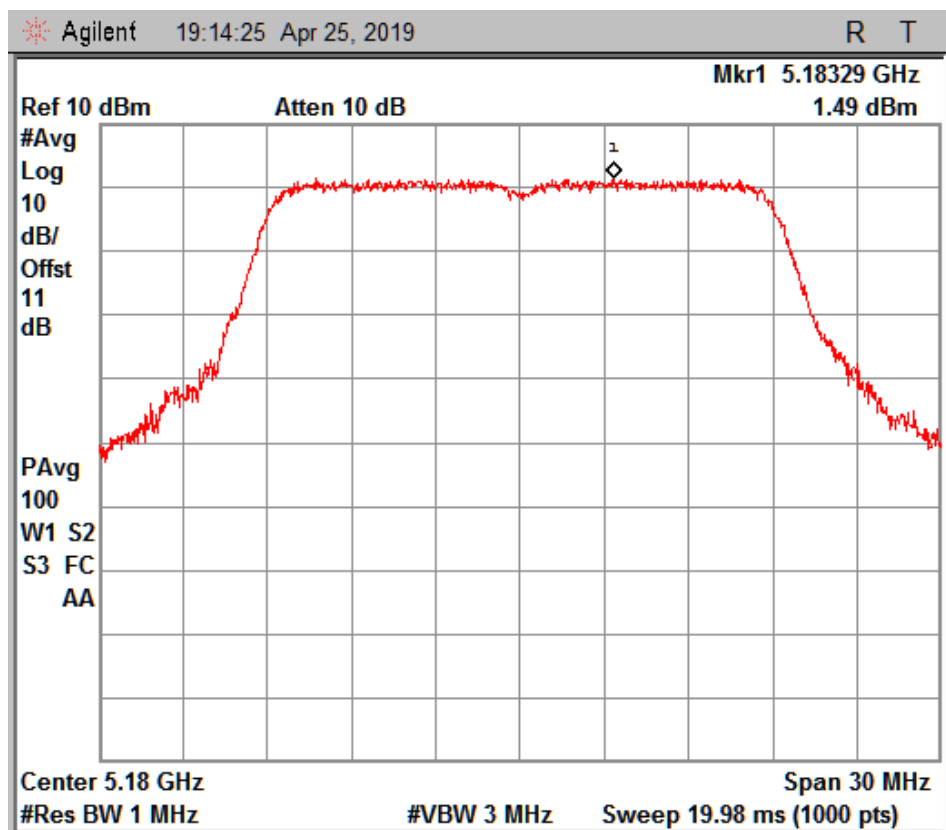
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Data rate: MCS5

Channel Frequency : 5.825 GHz



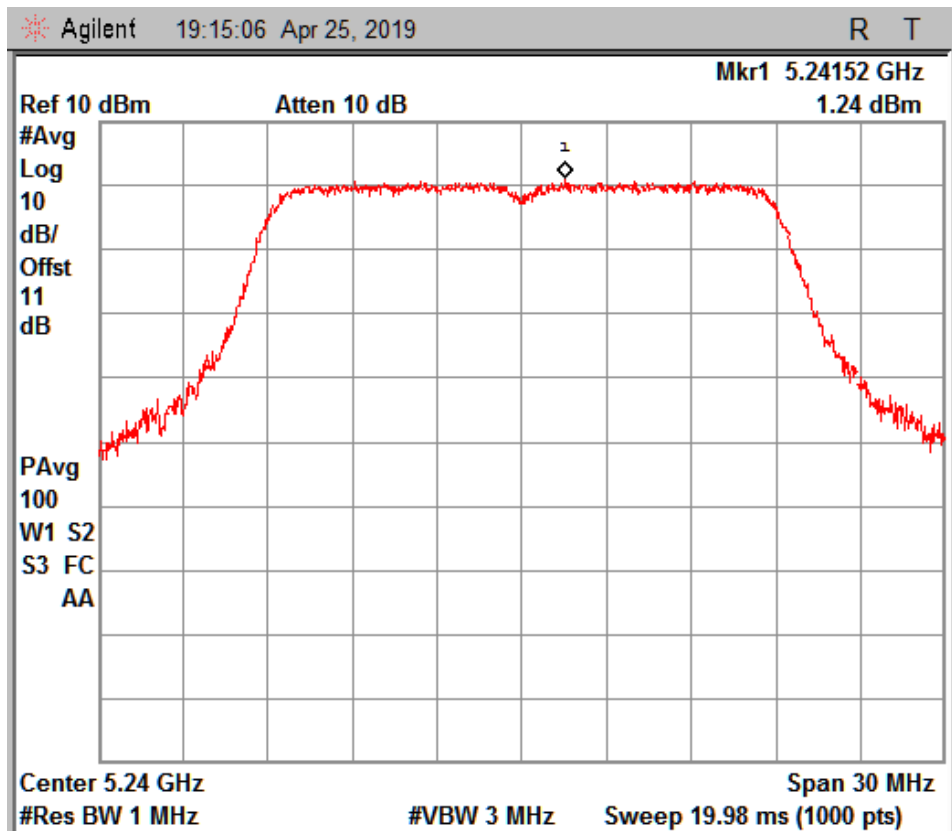
Data rate: MCS8

Channel Frequency : 5.180 GHz

Prüfbericht - Nr.:
Test Report No.:

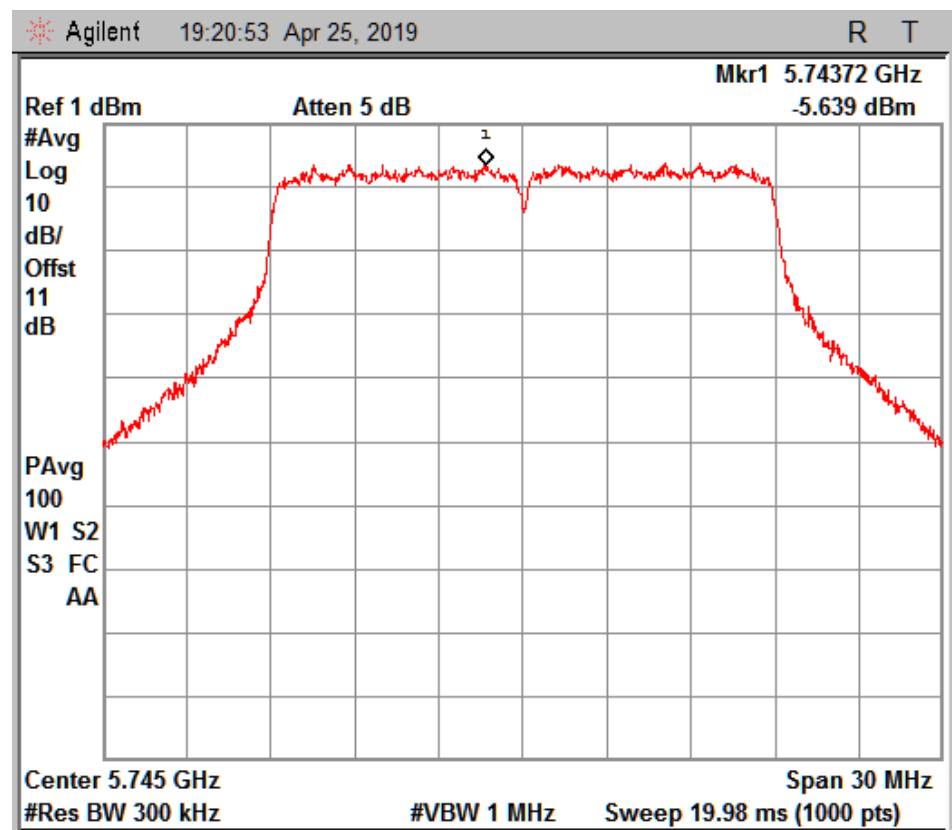
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Data rate: MCS8

Channel Frequency : 5.240 GHz



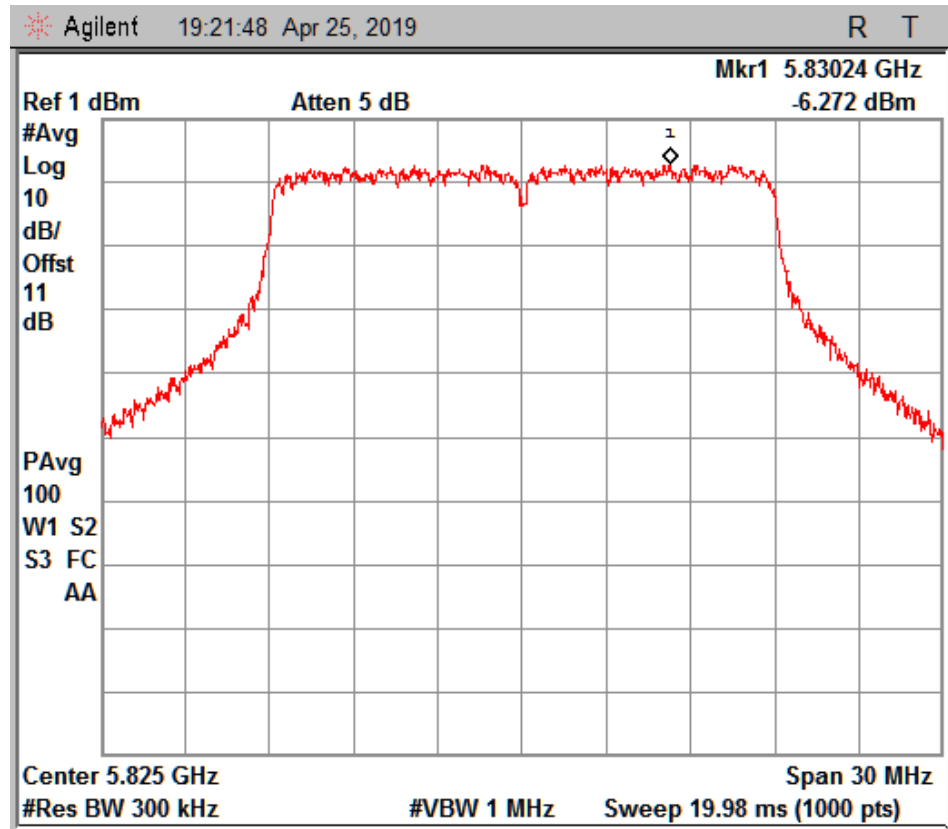
Data rate: MCS8

Channel Frequency : 5.745 GHz

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Data rate: MCS8

Channel Frequency : 5.825 GHz

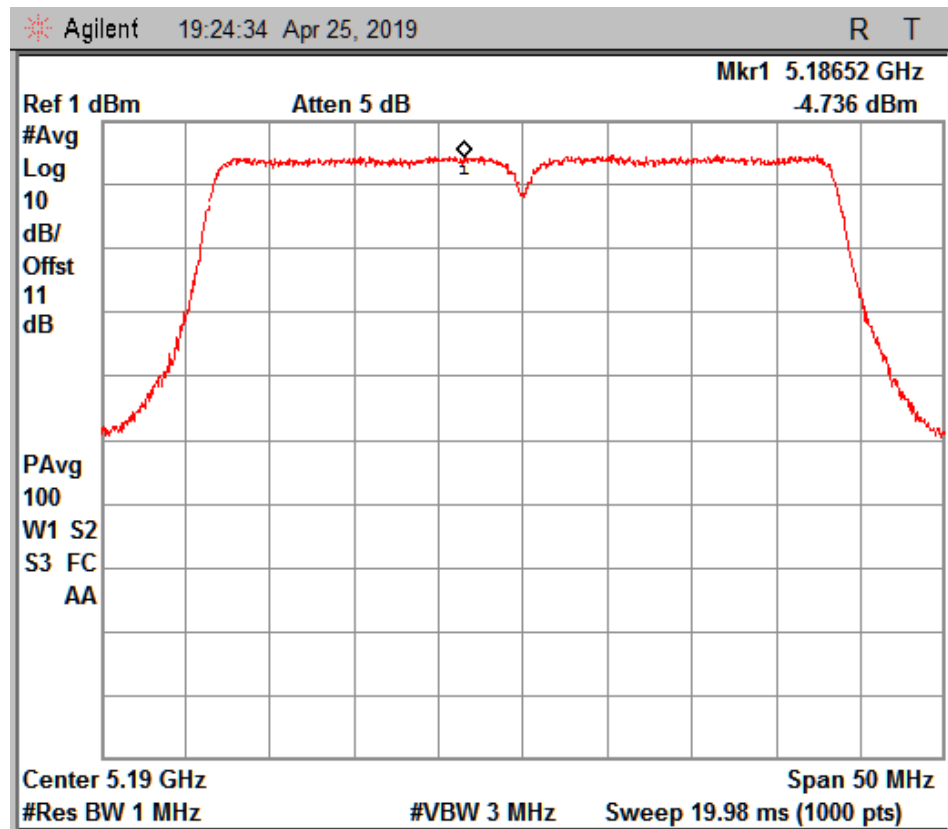
Modulation: 802.11ac mode SISO_VHT40

Data Rate	Frequency (MHz)	PSD (dBm)	Limit (dBm)
MCS0	5190	-4.736	11
	5230	-2.91	11
	5755	-6.43	11
	5795	-6.70	11
MCS5	5190	-3.32	11
	5230	-4.09	11
	5755	-7.07	11
	5795	-6.84	11
MCS9	5190	-3.81	11
	5230	-4.42	11
	5755	-7.20	11
	5795	-7.84	11

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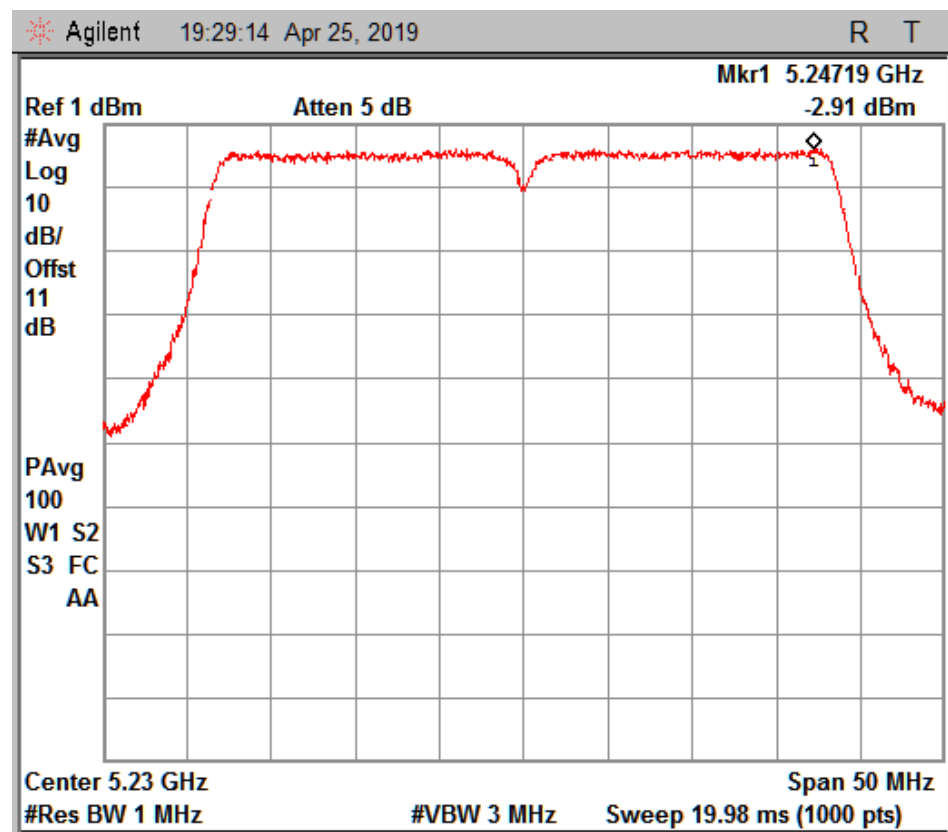
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Data rate: MCS0

Channel Frequency : 5.190 GHz



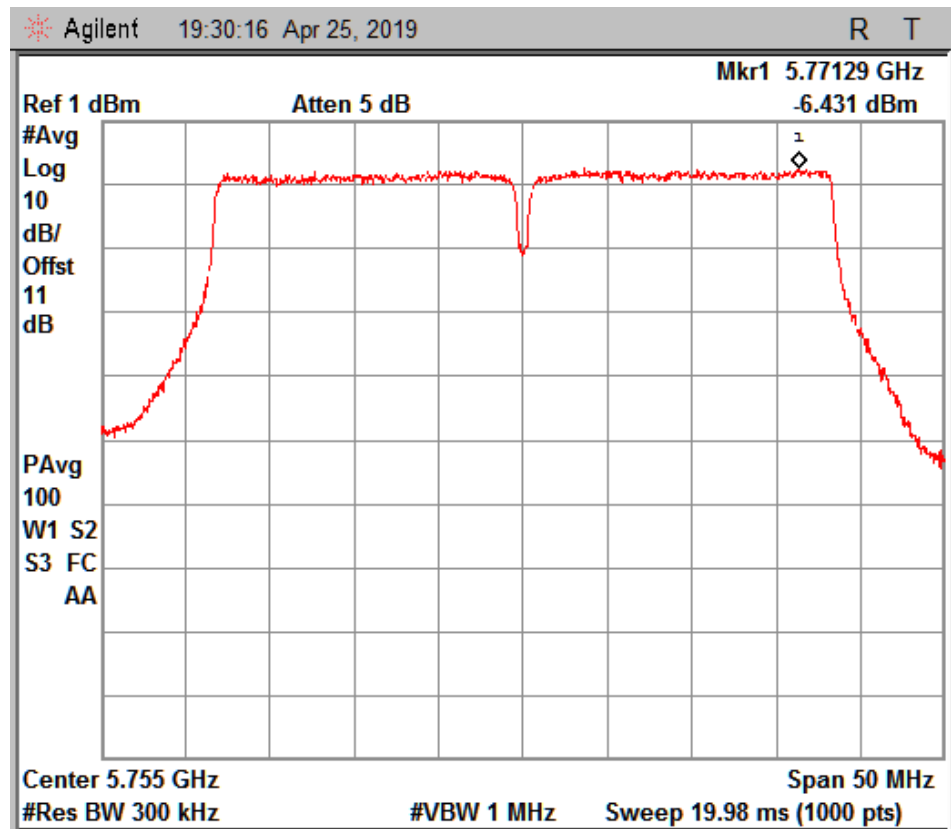
Data rate: MCS0

Channel Frequency : 5.230 GHz

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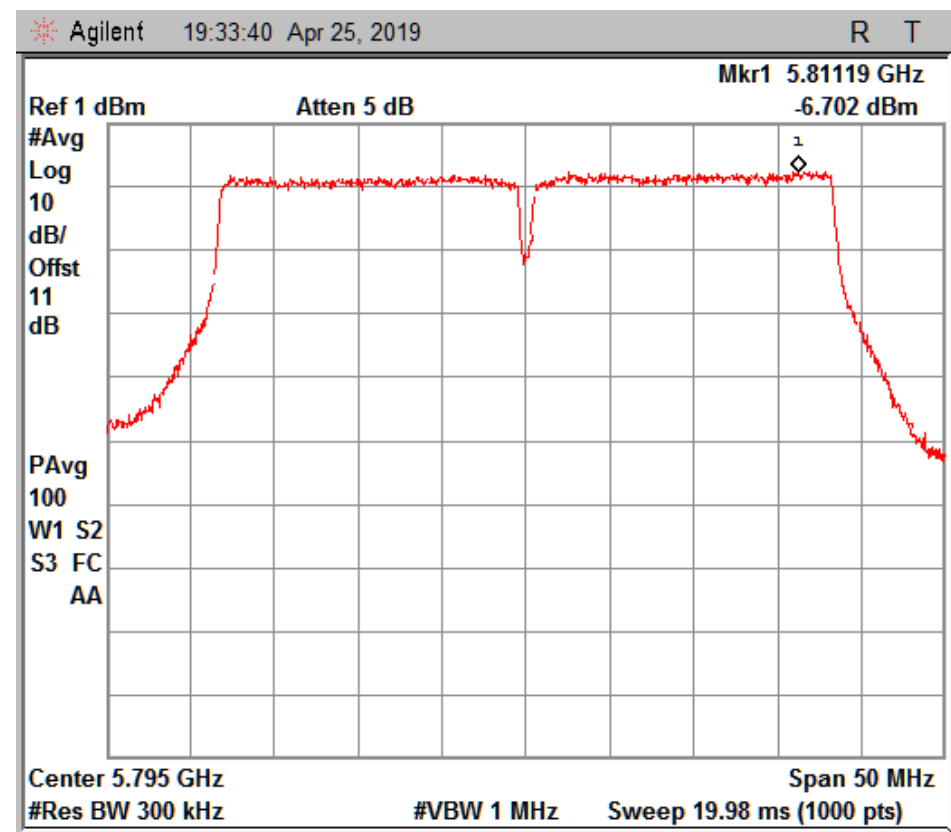
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Data rate: MCS0

Channel Frequency : 5.755 GHz



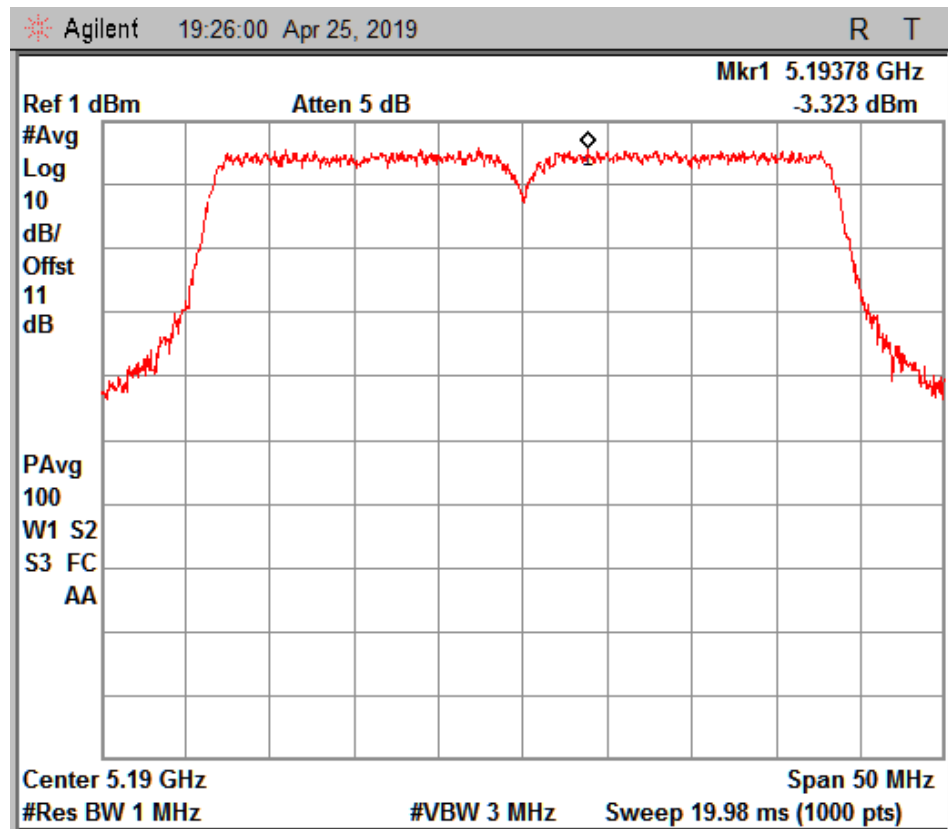
Data rate: MCS0

Channel Frequency : 5.795 GHz

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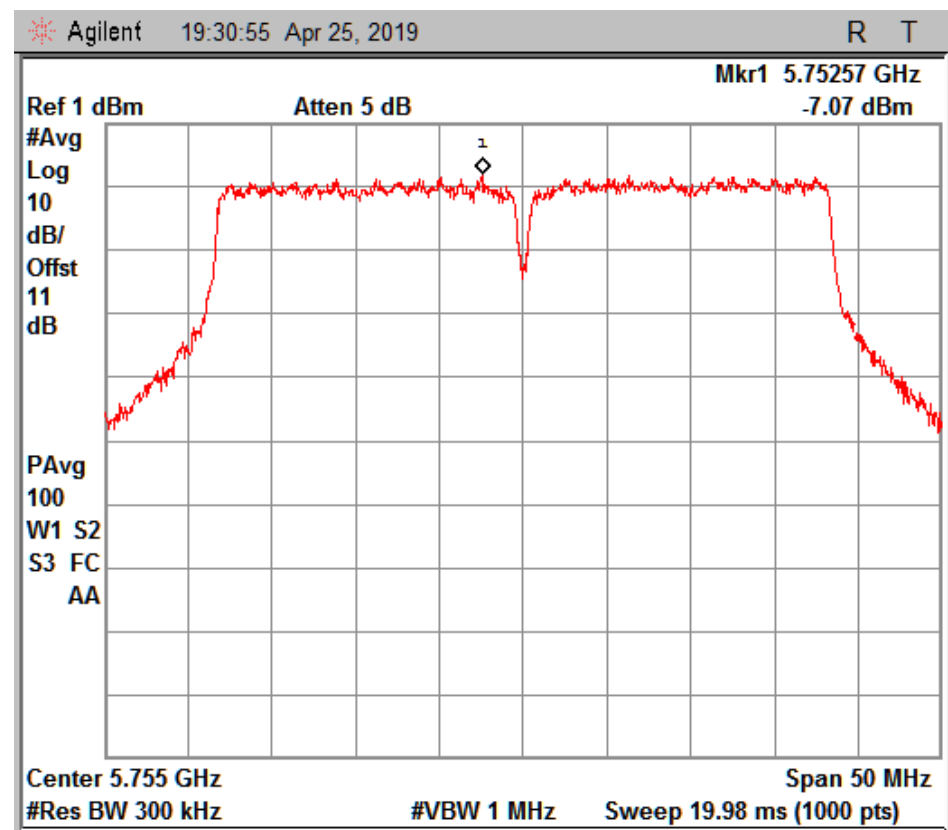
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Data rate: MCS5

Channel Frequency : 5.190 GHz



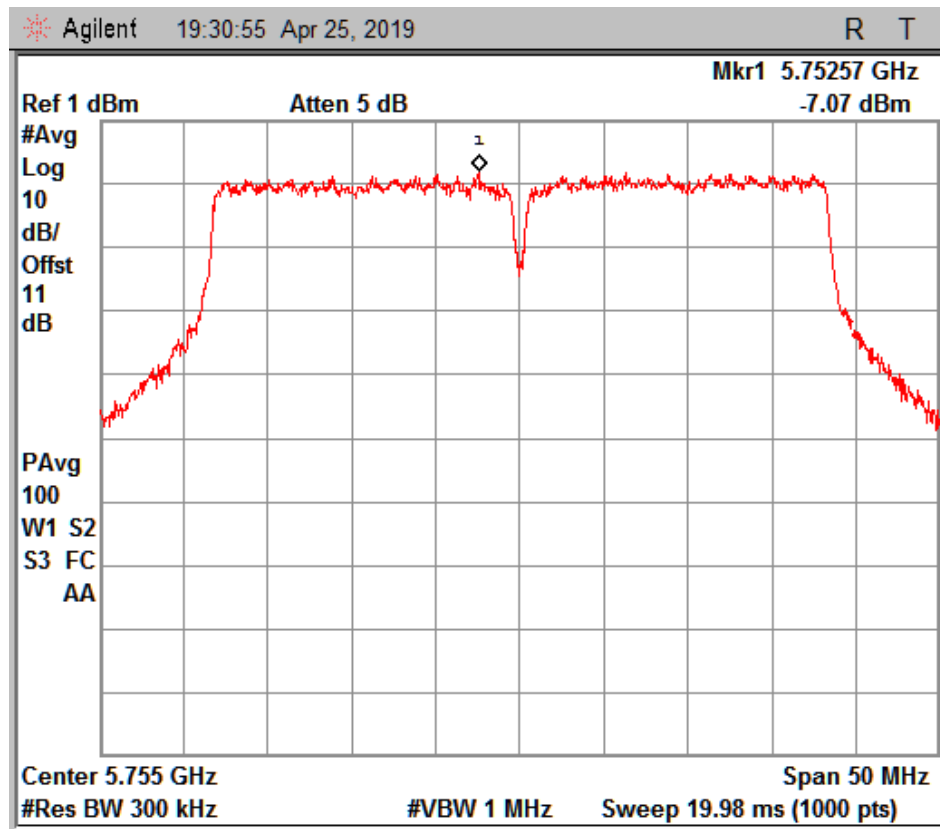
Data rate: MCS5

Channel Frequency : 5.230 GHz

Prüfbericht - Nr.:
Test Report No.:

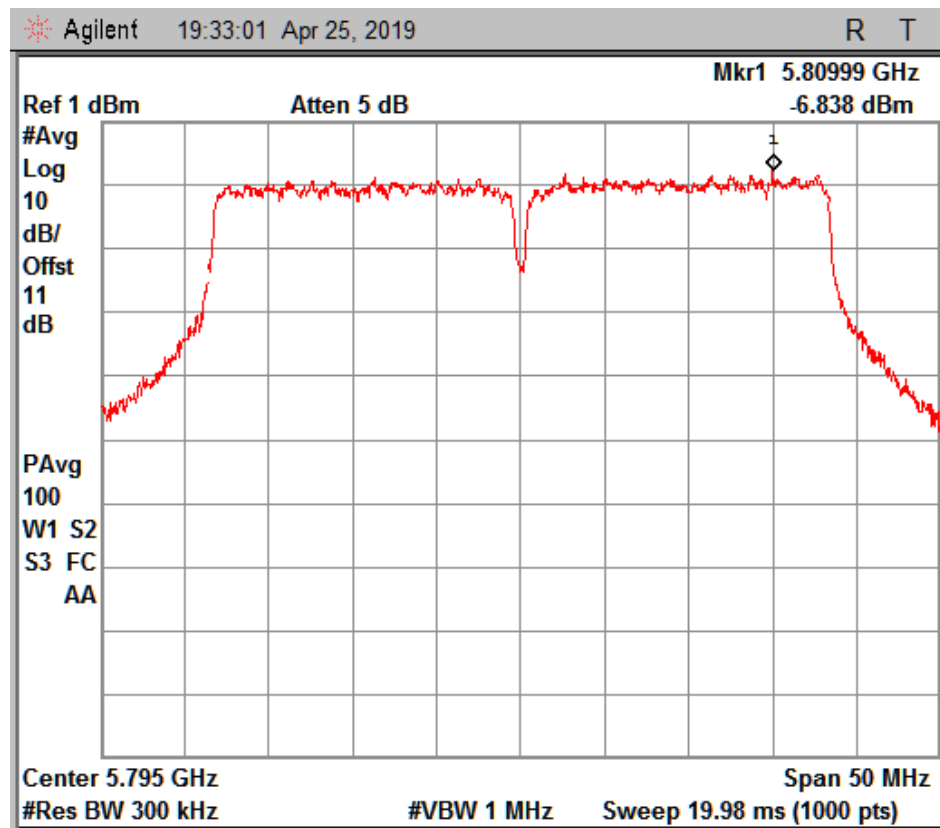
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Data rate: MCS5

Channel Frequency : 5.755 GHz



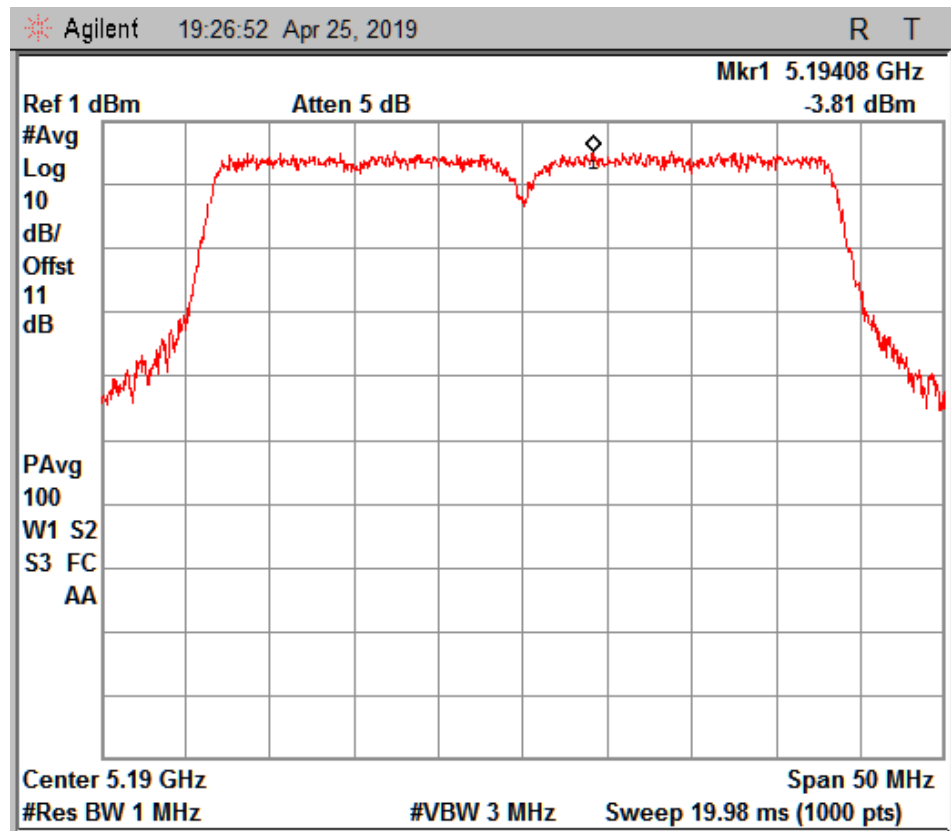
Data rate: MCS5

Channel Frequency : 5.795 GHz

Prüfbericht - Nr.:
Test Report No.:

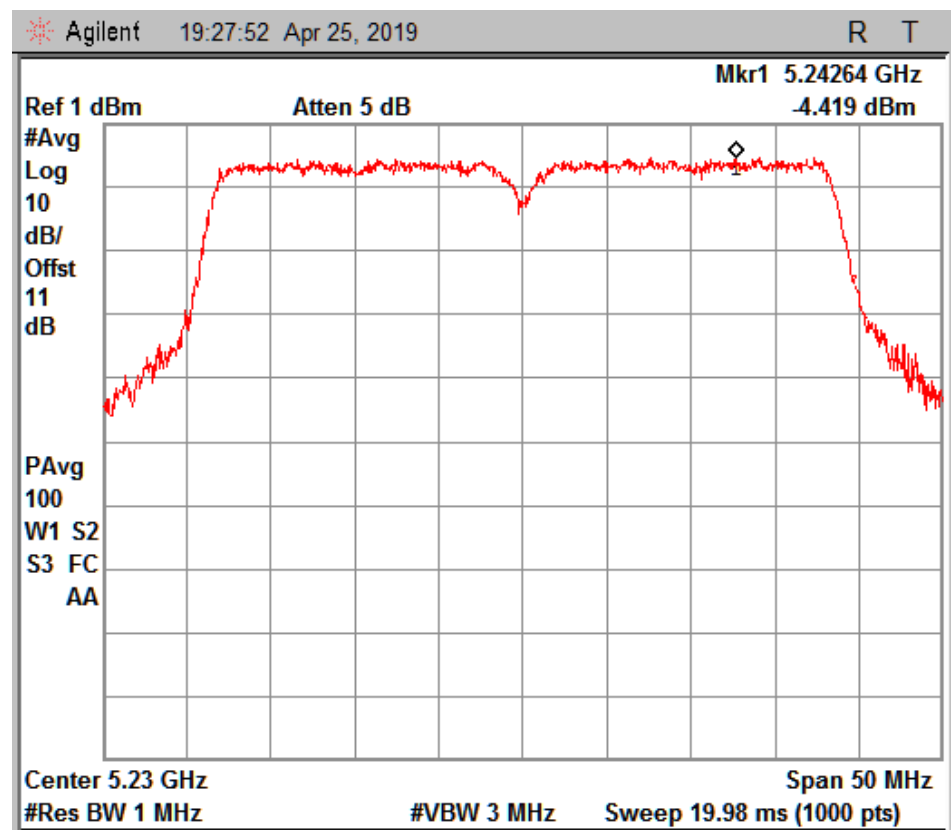
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Data rate: MCS9

Channel Frequency : 5.190GHz



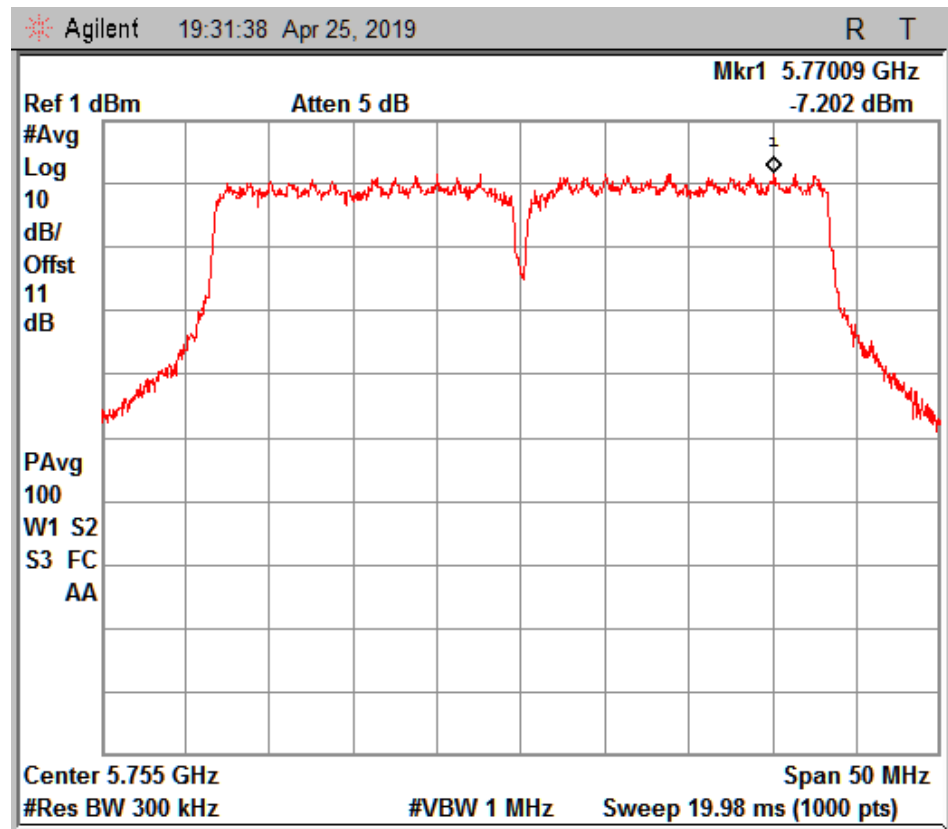
Data rate: MCS9

Channel Frequency : 5.230 GHz

Prüfbericht - Nr.:
Test Report No.:

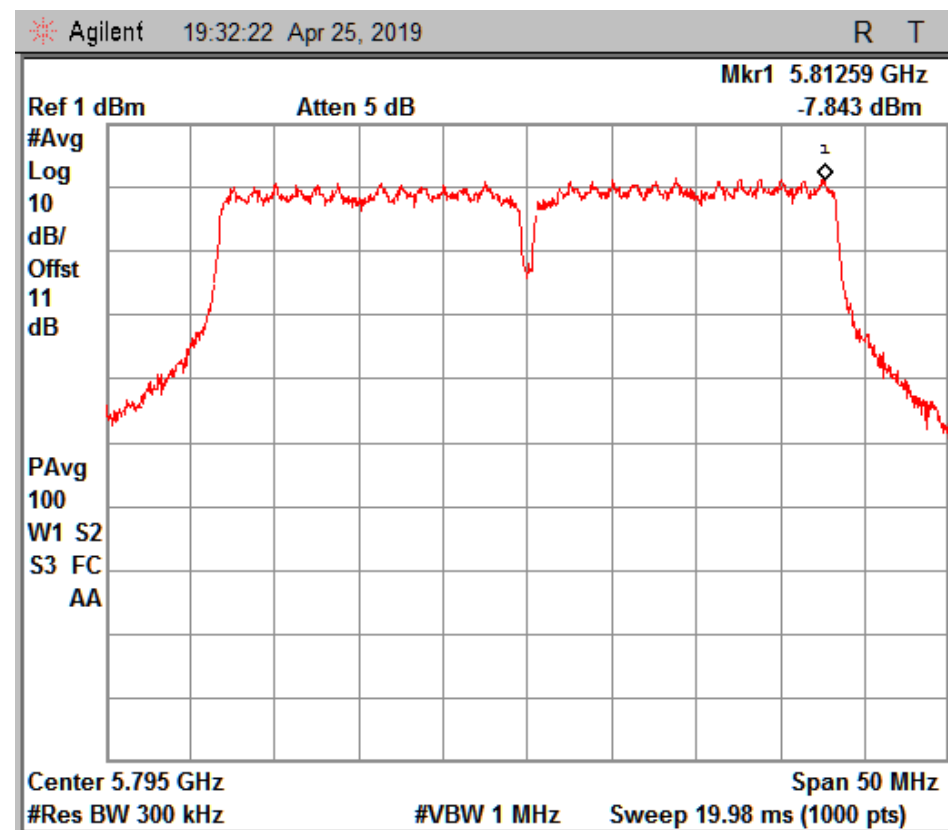
ULR-TC568819300000023F 001

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Data rate: MCS9

Channel Frequency : 5.755 GHz



Data rate: MCS9

Channel Frequency : 5.795 GHz

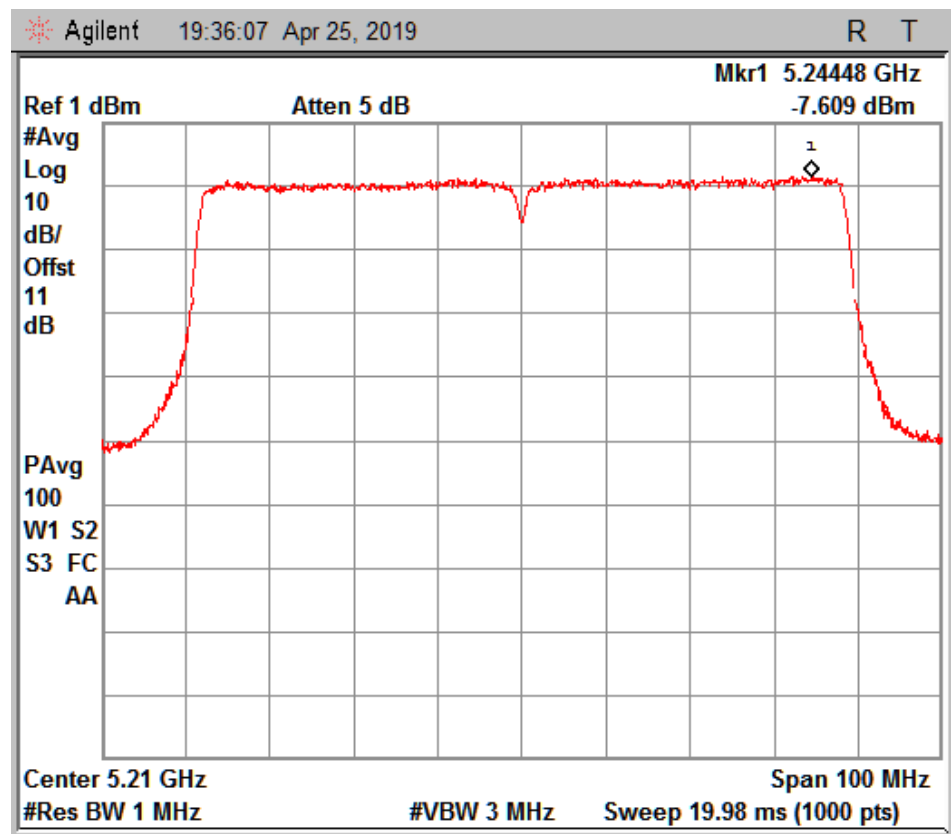
Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

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Modulation: 802.11ac mode SISO_VHT80

Data Rate (Mbps)	Frequency (MHz)	PSD (dBm)	Limit (dBm)
MCS0	5210	-7.60	11
	5775	-8.66	11
MCS5	5210	-8.71	11
	5775	-8.93	11
MCS9	5210	-8.85	11
	5775	-9.63	11



Data rate: MCS0

Channel Frequency : 5.210 GHz

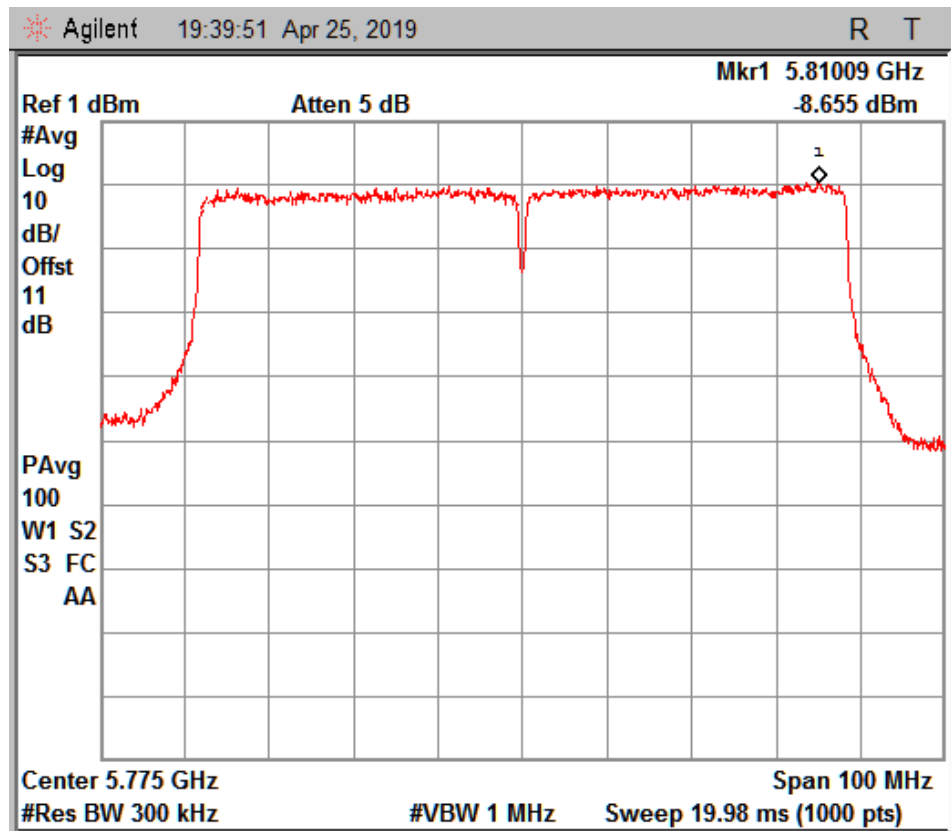
Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

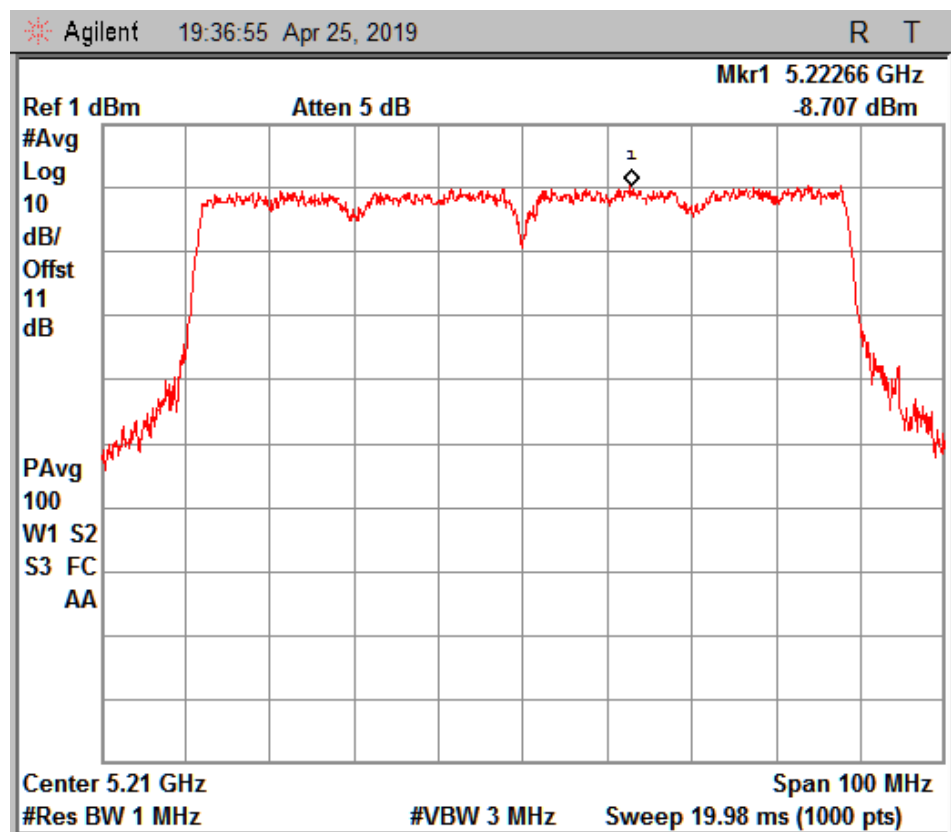
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Data rate: MCS0

Channel Frequency : 5.775 GHz



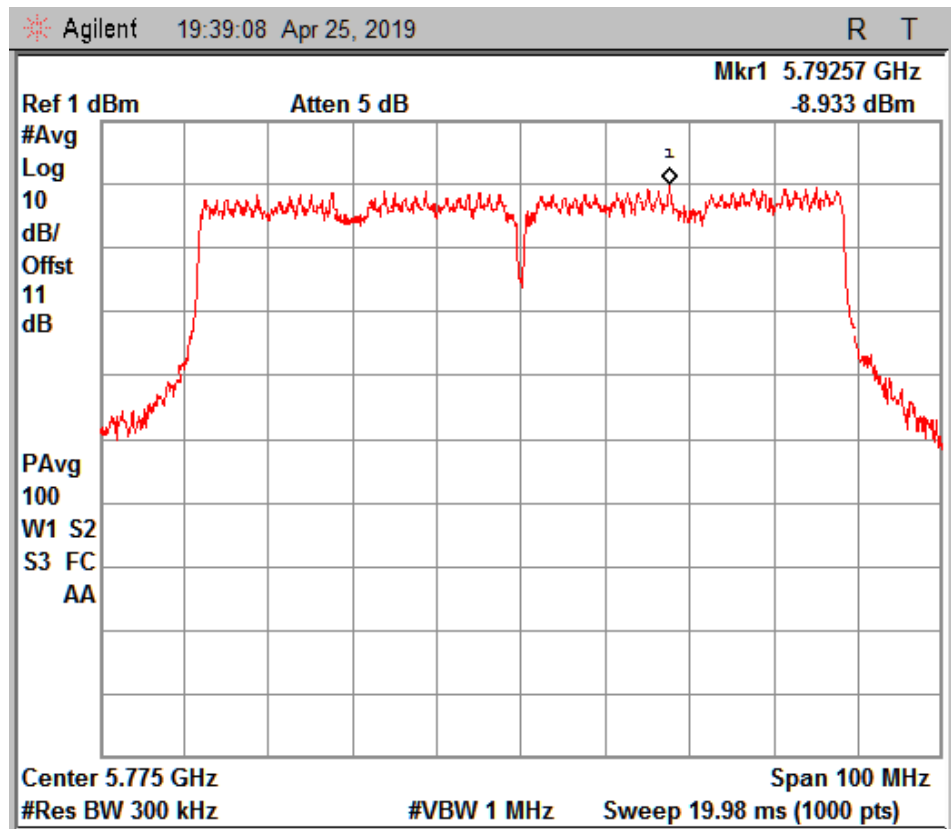
Data rate: MCS5

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

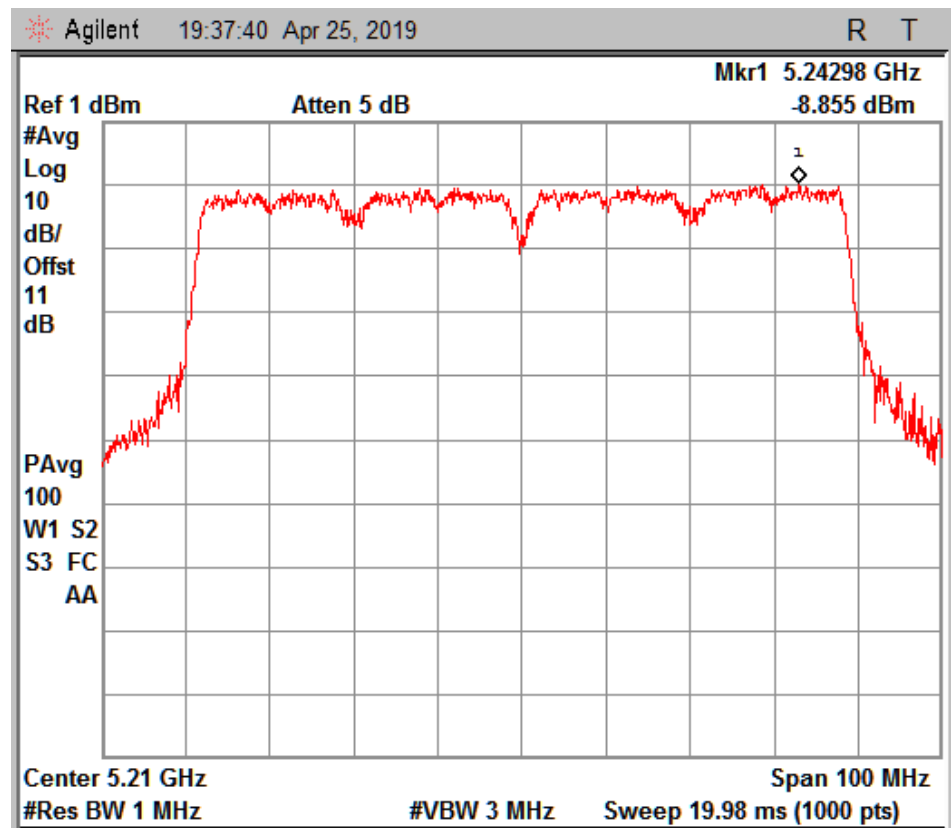
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Data rate: MCS5

Channel Frequency : 5.775 GHz



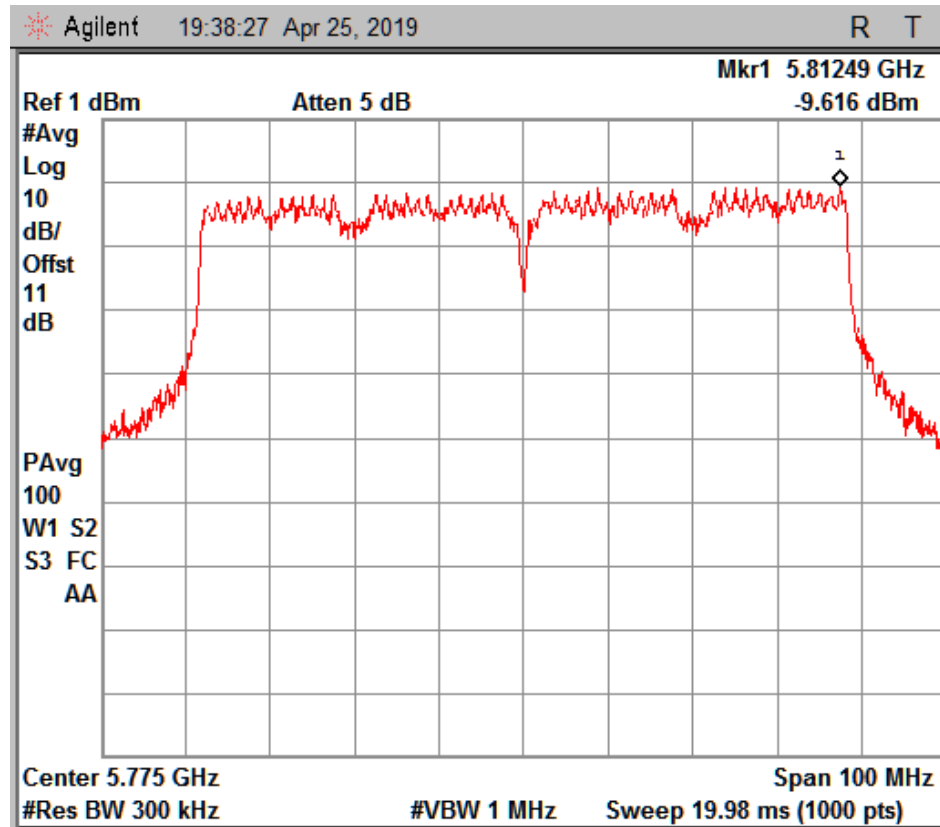
Data rate: MCS9

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

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Data rate: MCS9

Channel Frequency : 5.775 GHz

Modulation: 802.11ac mode MIMO_VHT20

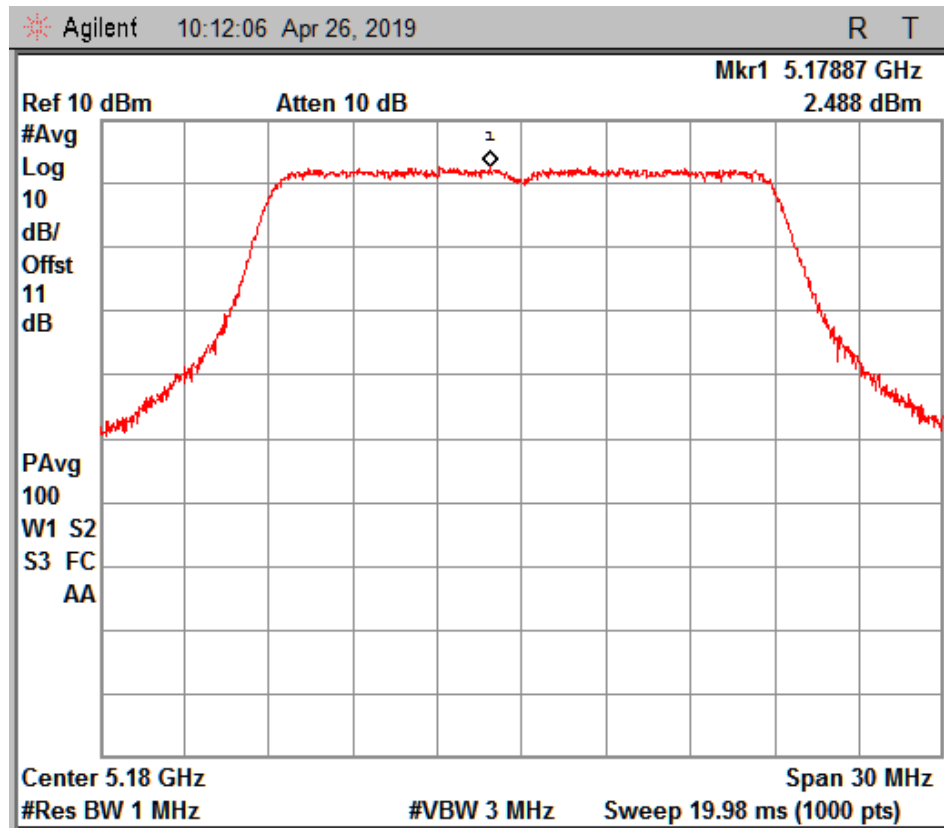
Data Rate(Mbps)	Frequency (MHz)	Chain 2 PSD (dBm)	Chain 2 PSD (dBm)	Add 10log(Nant)	Total PSD for Chain 2 (dBm)	Total PSD for Chain 2 (dBm)	Limit (dBm)
MCS0	5180	2.49	2.99	3.01	5.50	6.01	11
	5240	1.44	3.11	3.01	4.45	6.12	11
	5745	-4.49	-3.08	3.01	-1.48	-0.07	11
	5825	-3.49	-2.19	3.01	-0.48	0.82	11
MCS5	5180	1.71	3.02	3.01	4.72	6.03	11
	5240	0.75	1.70	3.01	3.76	4.71	11
	5745	-5.19	-3.09	3.01	-2.18	-0.08	11
	5825	-2.59	-1.28	3.01	0.42	1.73	11
MCS9	5180	1.04	2.41	3.01	4.05	5.42	11
	5240	0.82	1.51	3.01	3.83	4.52	11
	5745	-5.05	-3.63	3.01	-2.04	-0.62	11
	5825	-3.33	-2.80	3.01	-0.32	0.21	11

Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

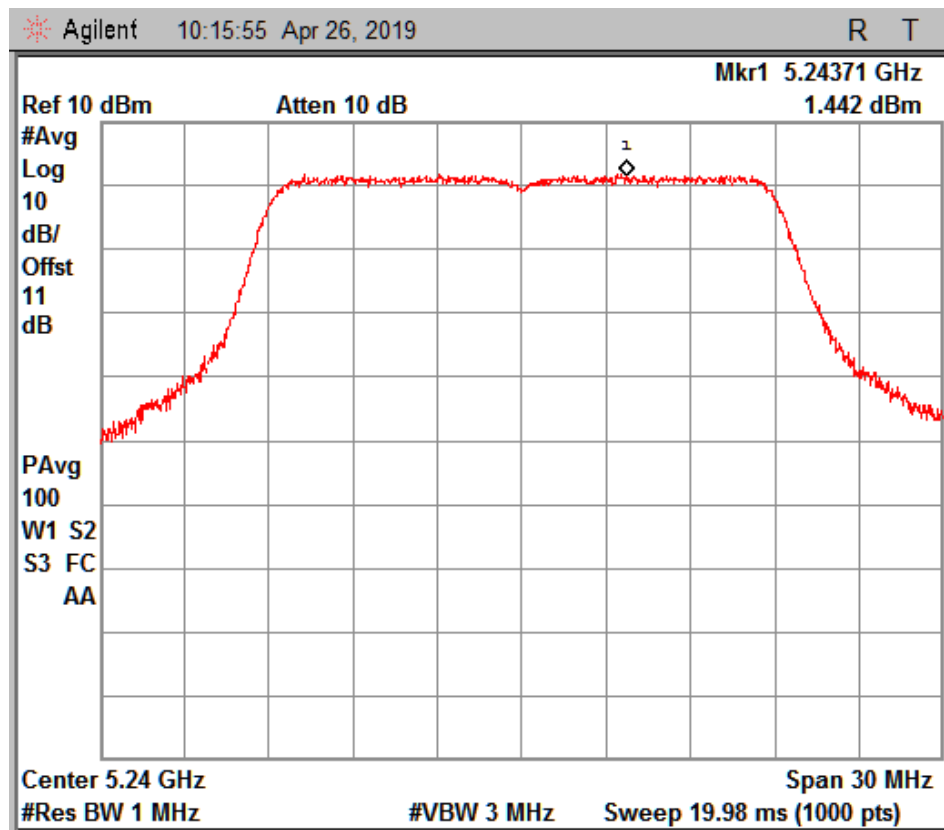
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Chain 2



Data rate: MCS0

Channel Frequency : 5.180 GHz



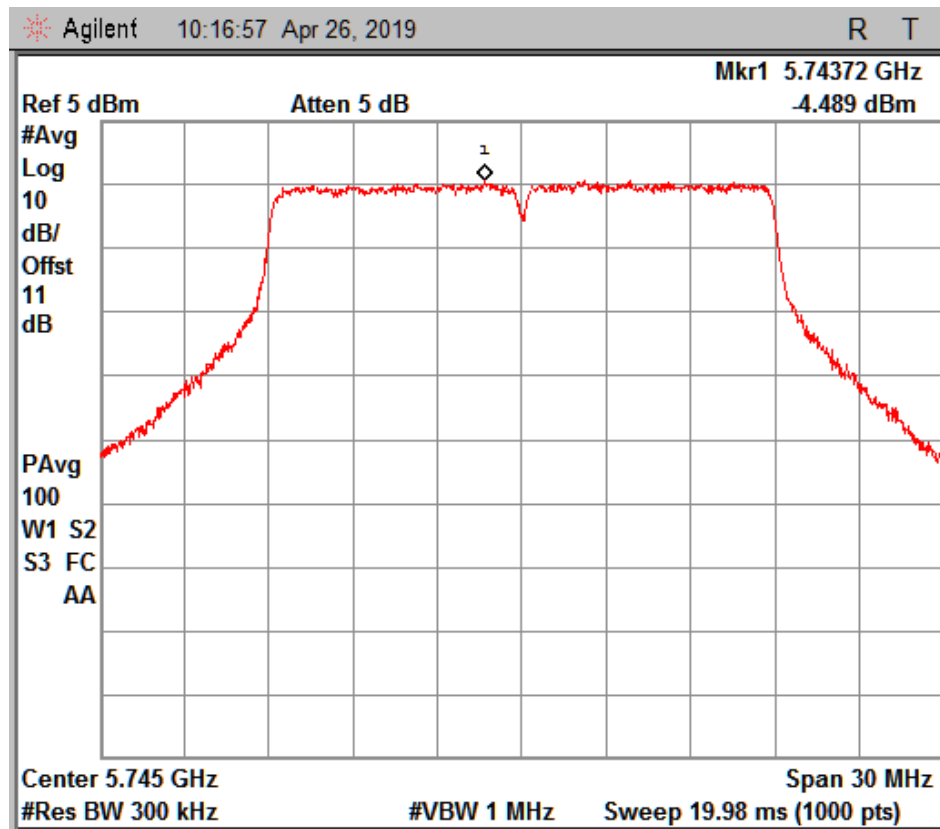
Data rate: MCS0

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

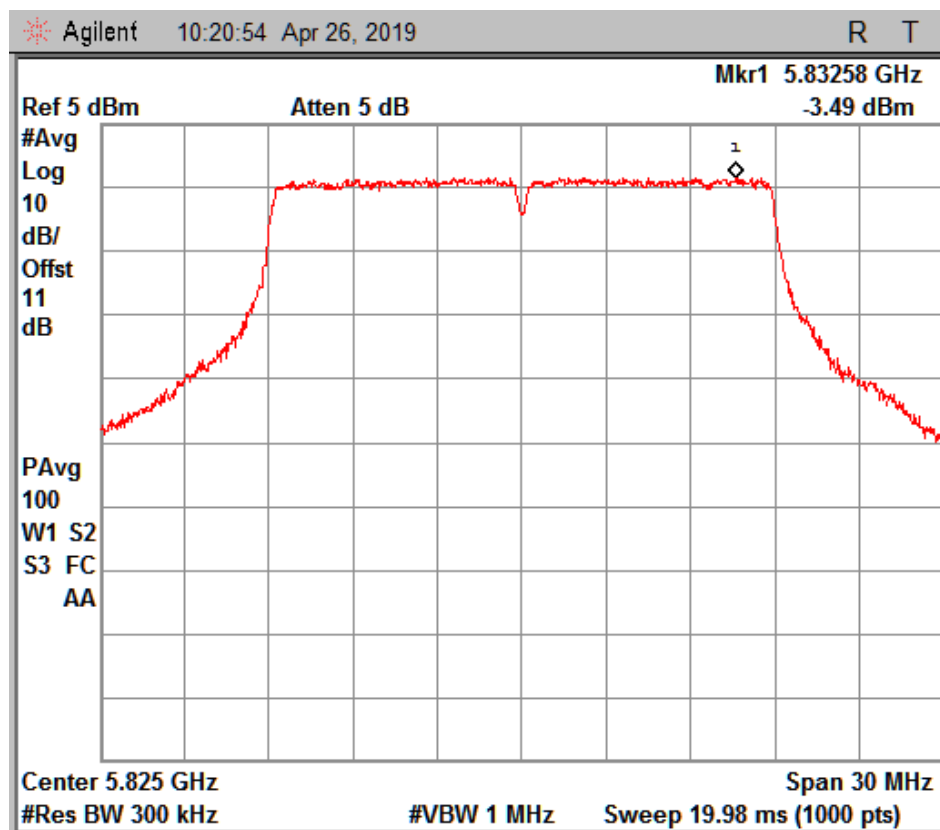
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.745 GHz



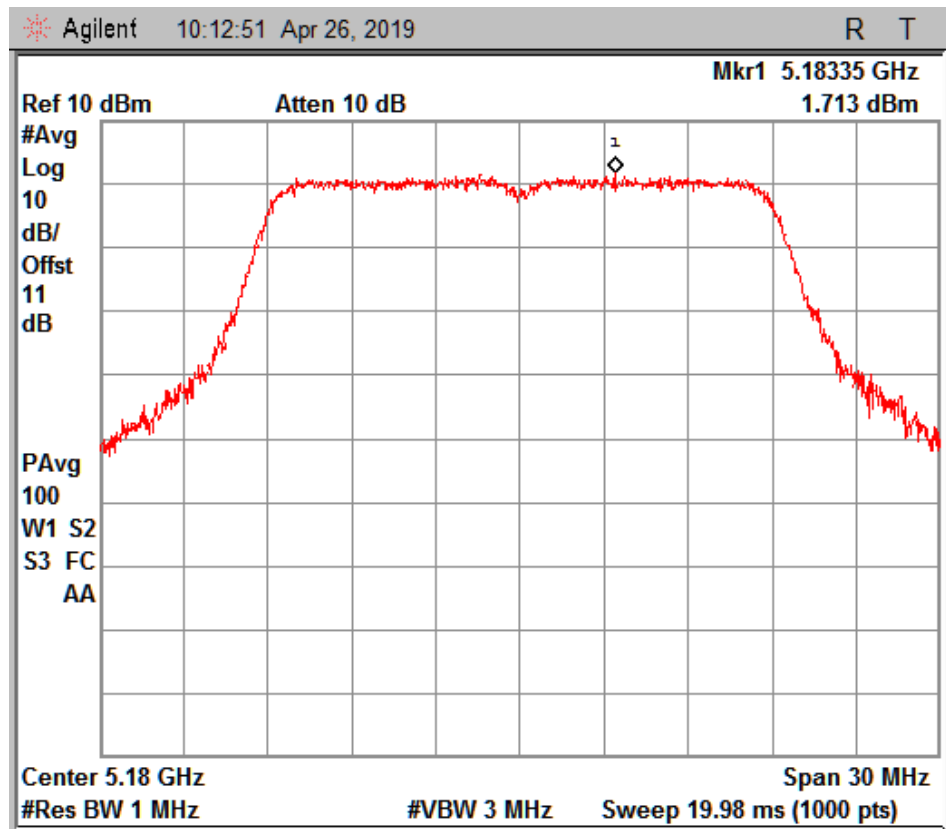
Data rate: MCS0

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

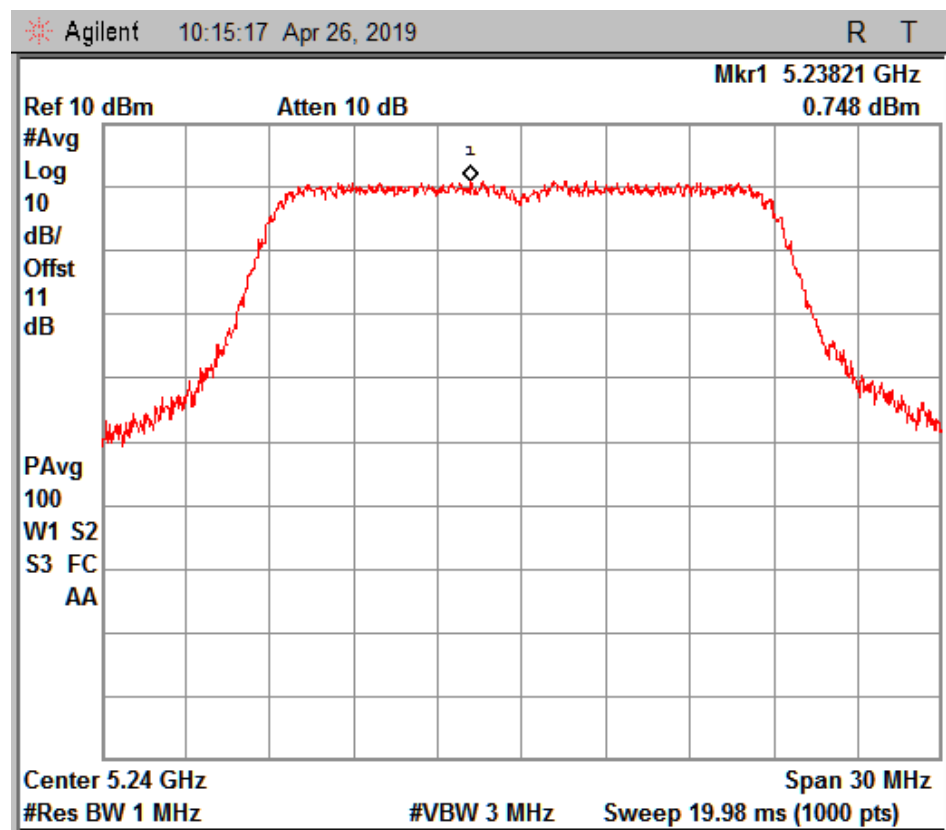
ULR-TC568819300000023F 001

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Data rate: MCS5

Channel Frequency : 5.180 GHz



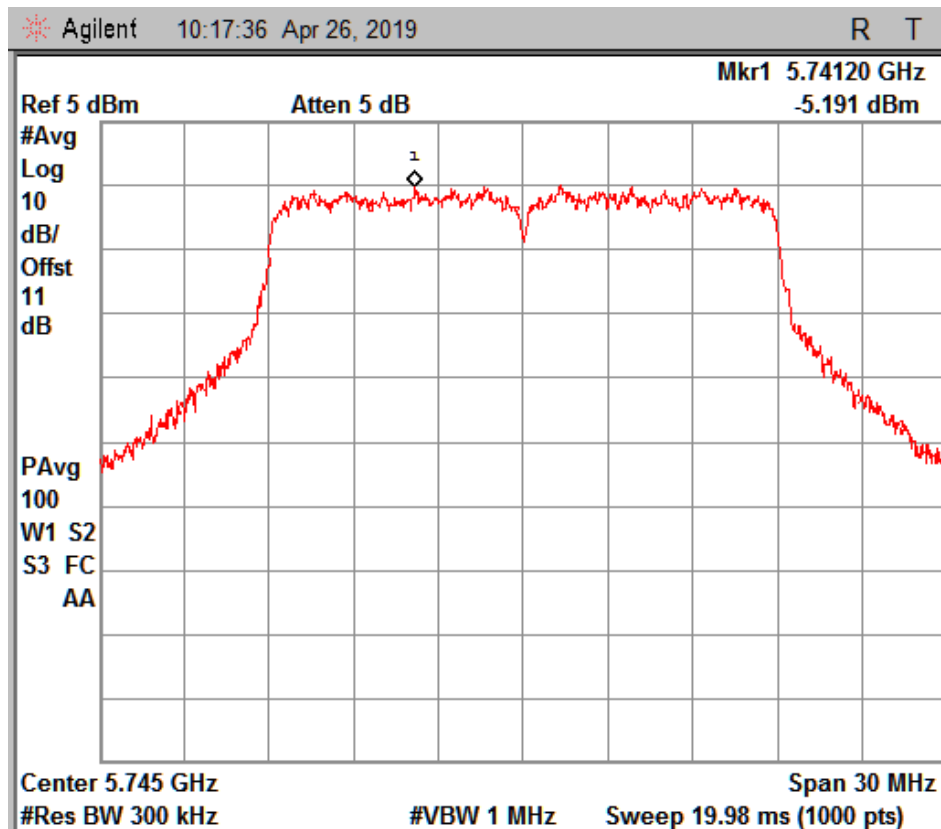
Data rate: MCS5

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

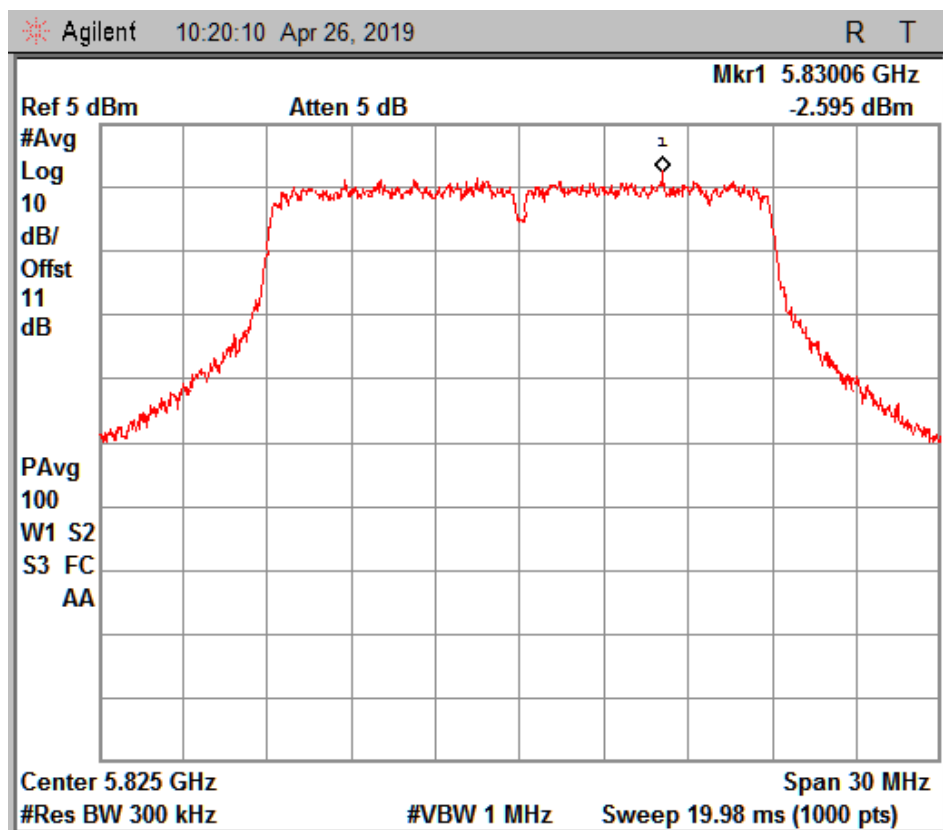
ULR-TC568819300000023F 001

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Data rate: MCS5

Channel Frequency : 5.745 GHz



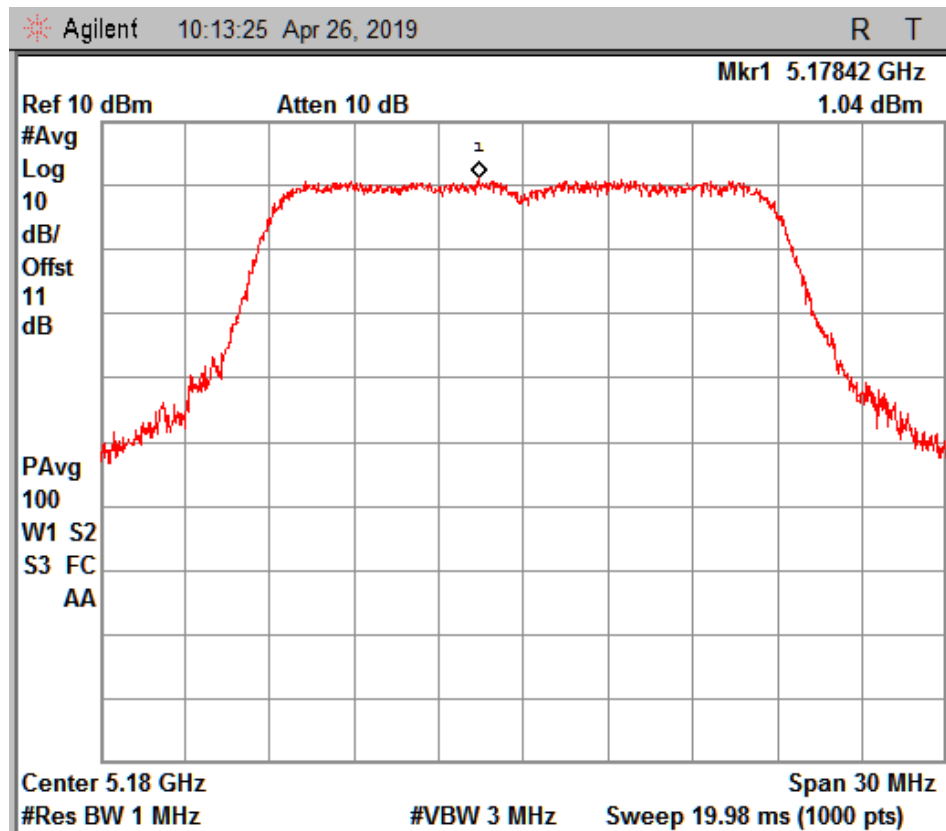
Data rate: MCS5

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

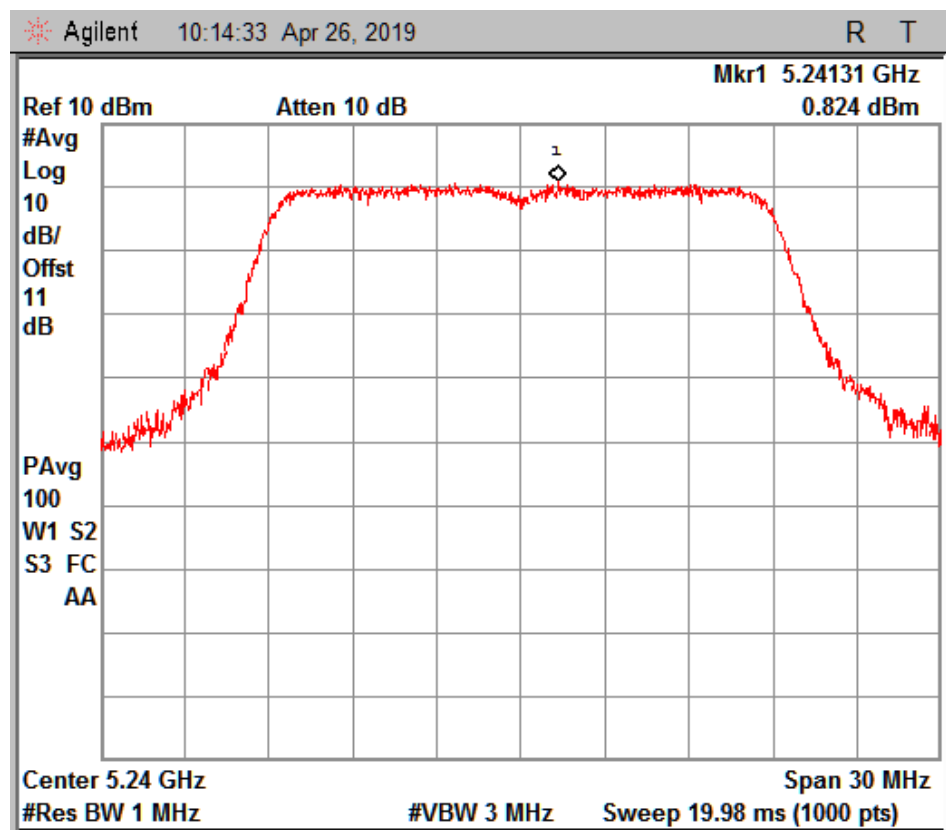
ULR-TC568819300000023F 001

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Data rate: MCS8

Channel Frequency : 5.180 GHz



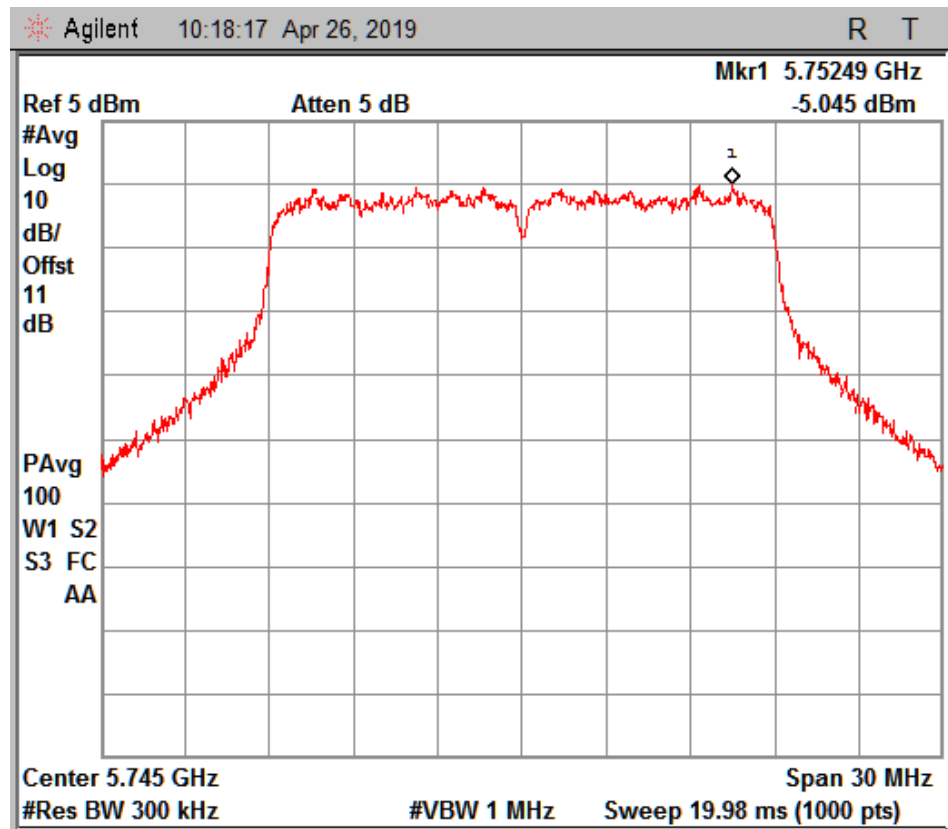
Data rate: MCS8

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

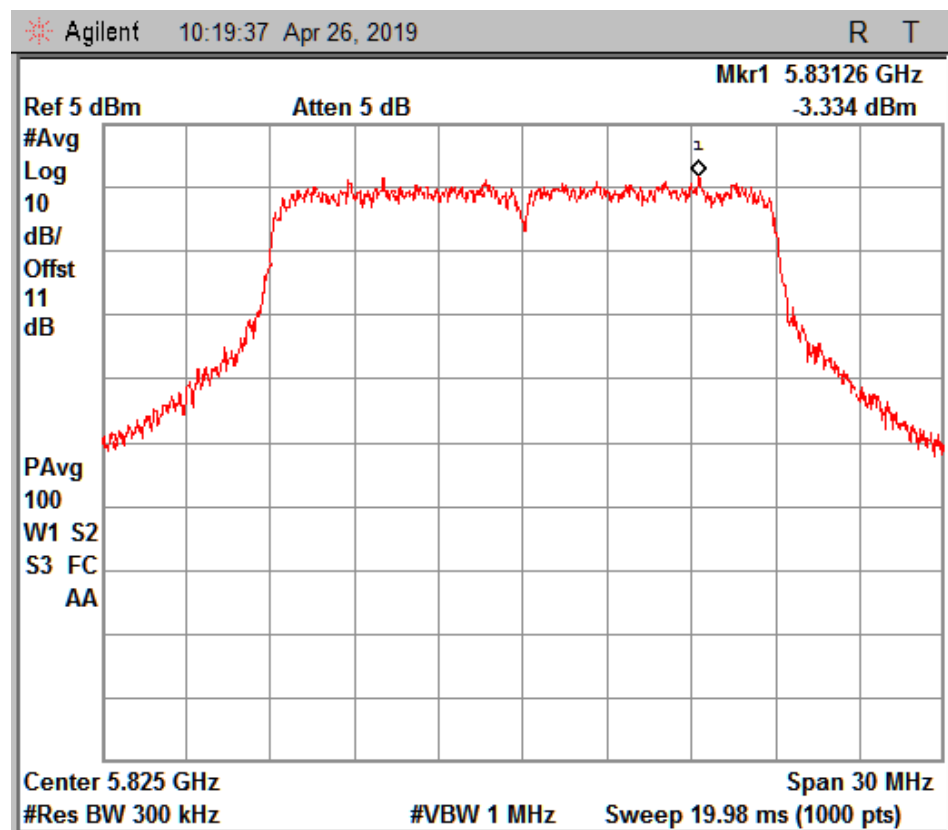
ULR-TC568819300000023F 001

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Data rate: MCS8

Channel Frequency : 5.745 GHz



Data rate: MCS8

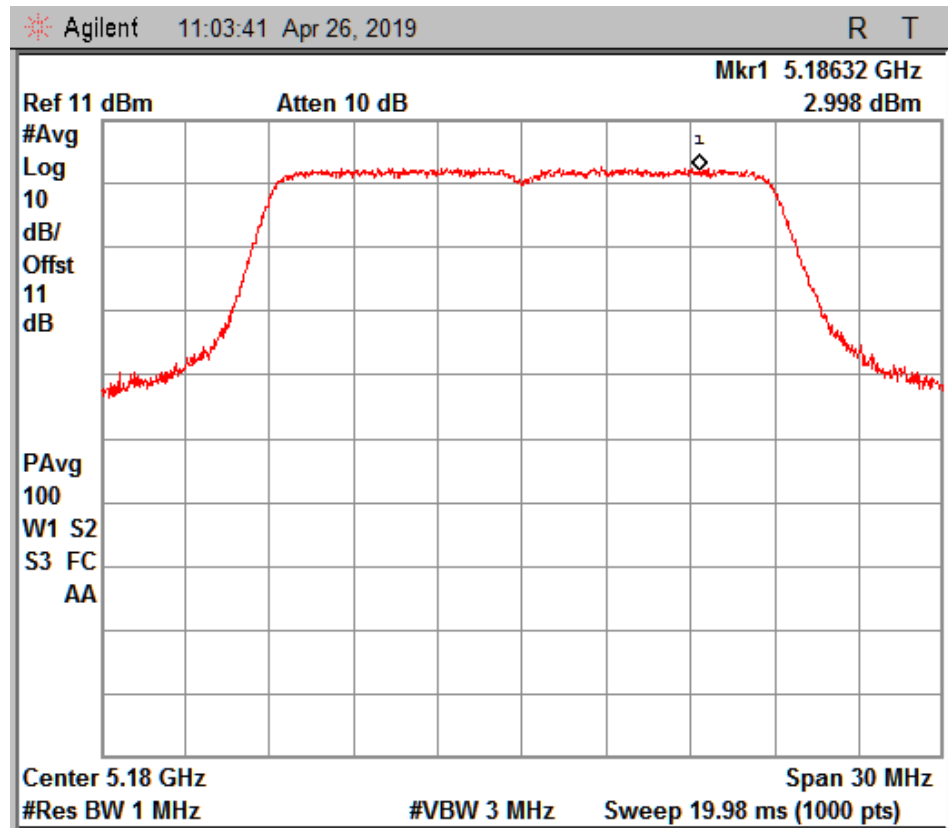
Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

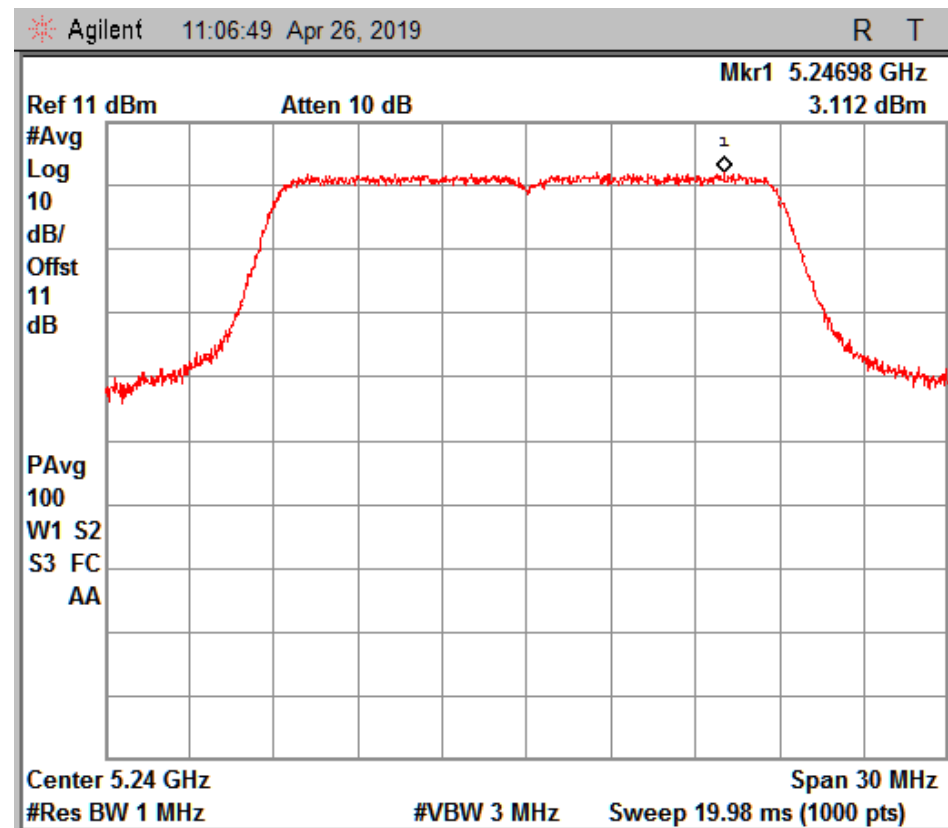
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Chain 2



Data rate: MCS0

Channel Frequency : 5.180 GHz



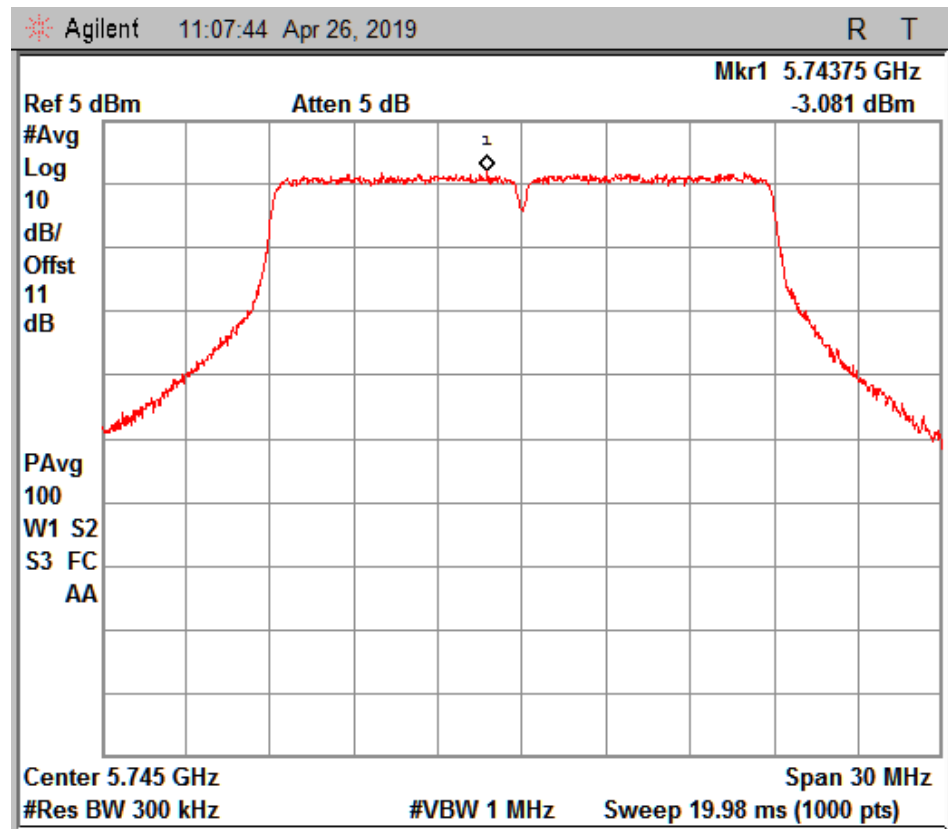
Data rate: MCS0

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

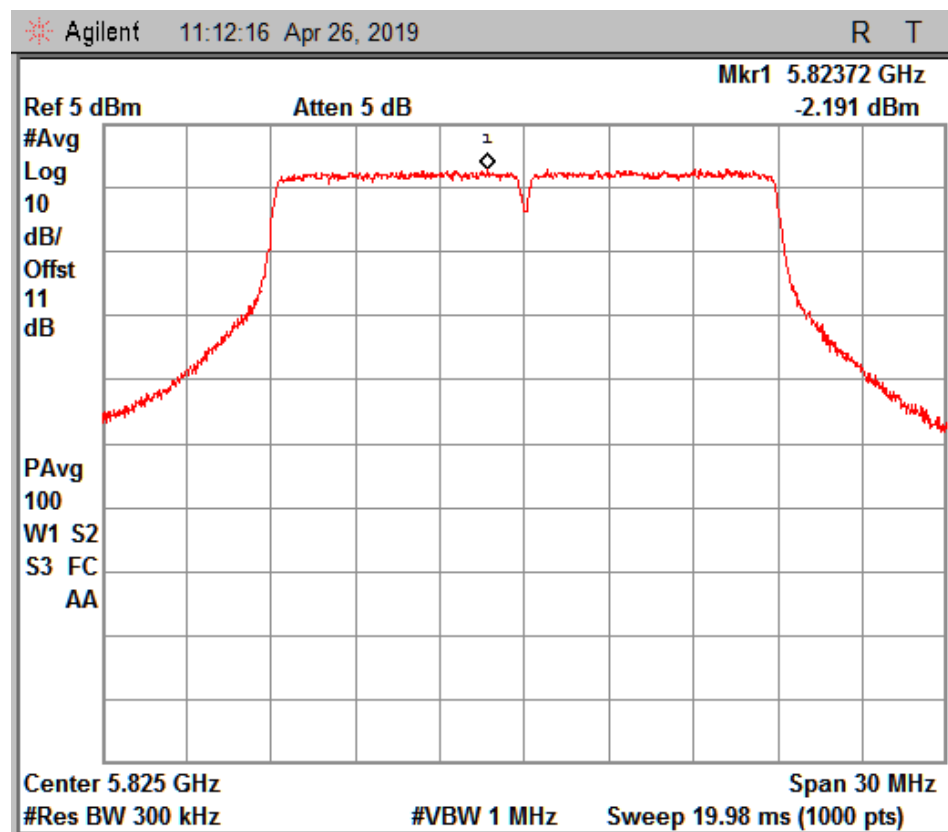
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.745 GHz



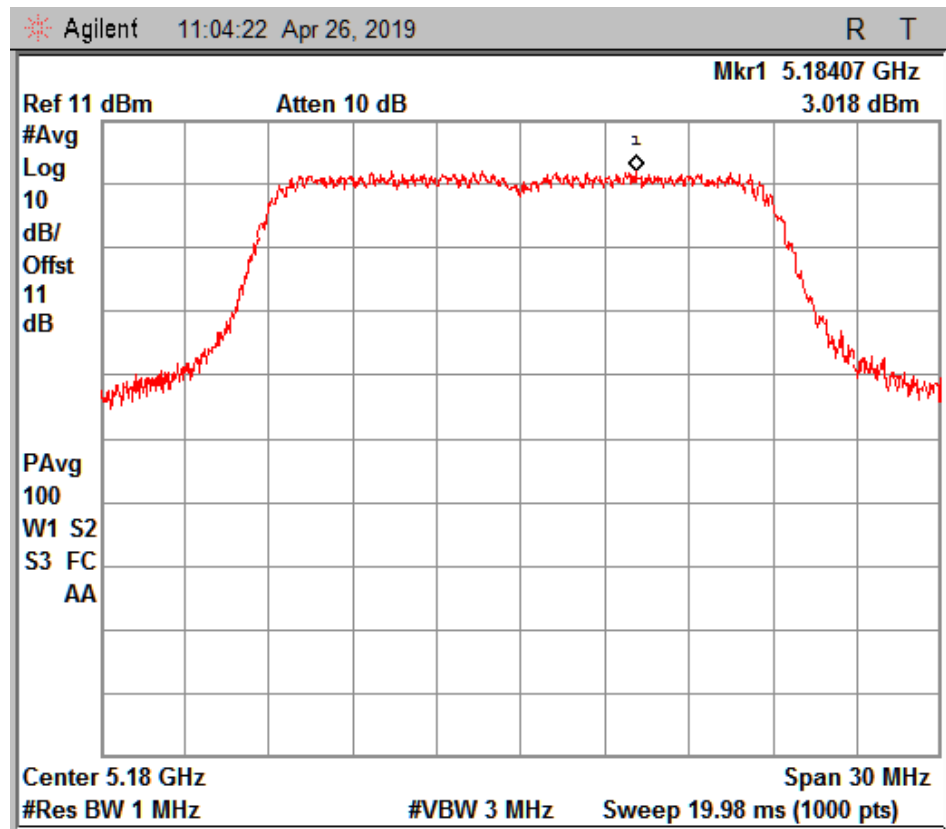
Data rate: MCS0

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

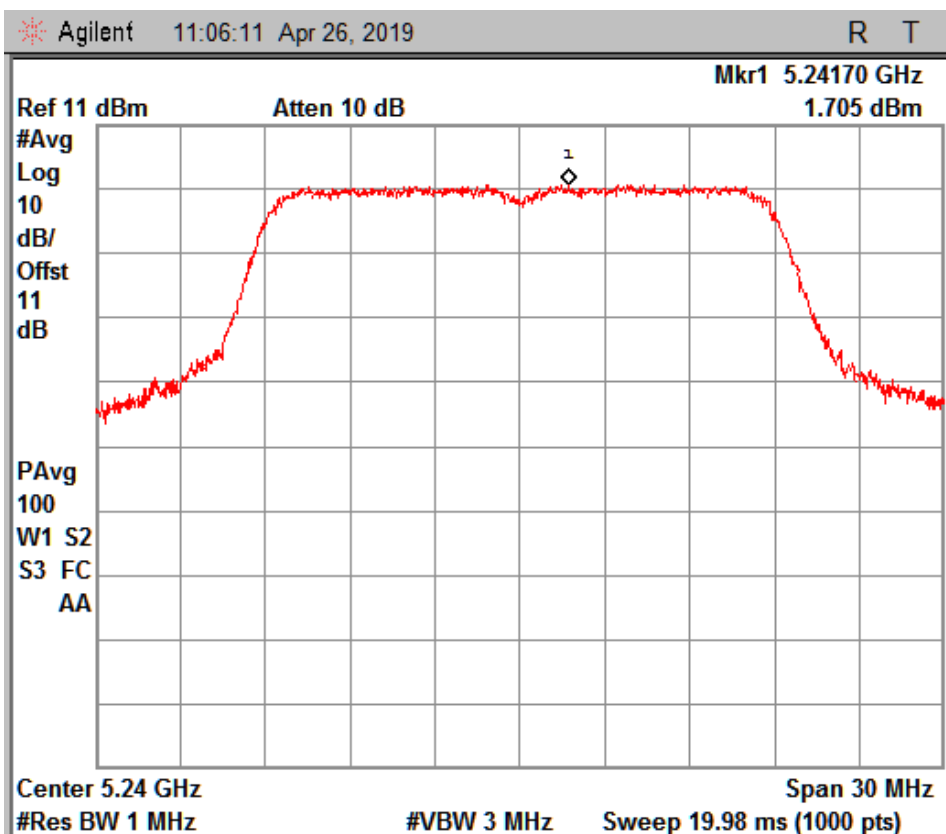
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Data rate: MCS5

Channel Frequency : 5.180 GHz



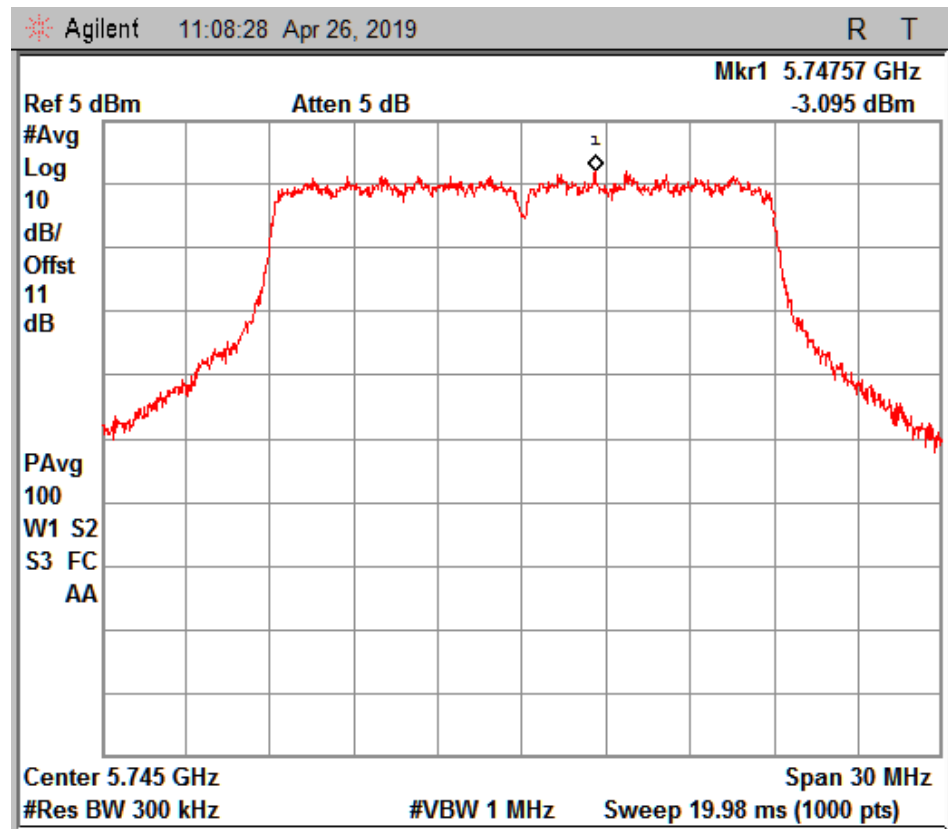
Data rate: MCS5

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

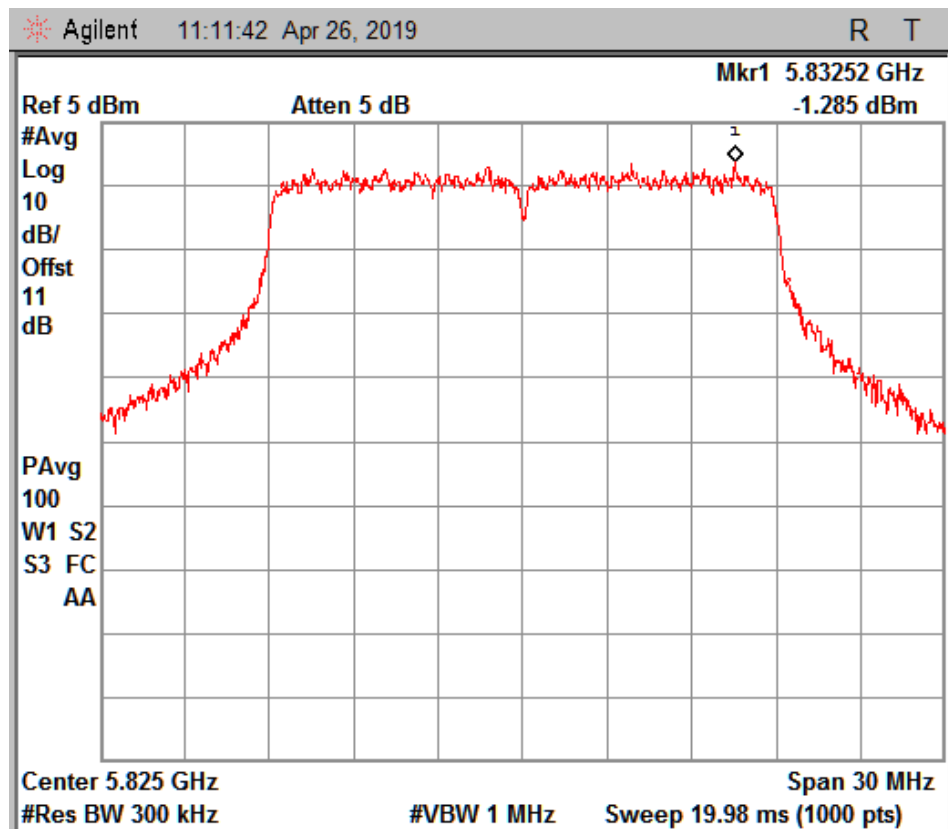
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Data rate: MCS5

Channel Frequency : 5.745 GHz



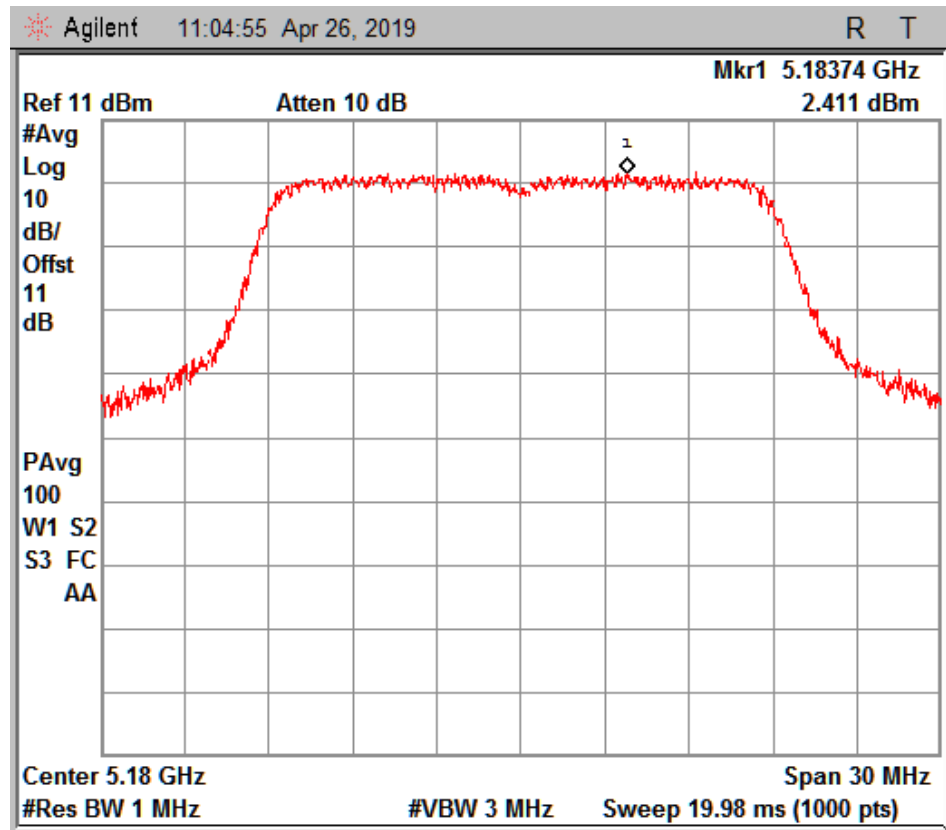
Data rate: MCS5

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

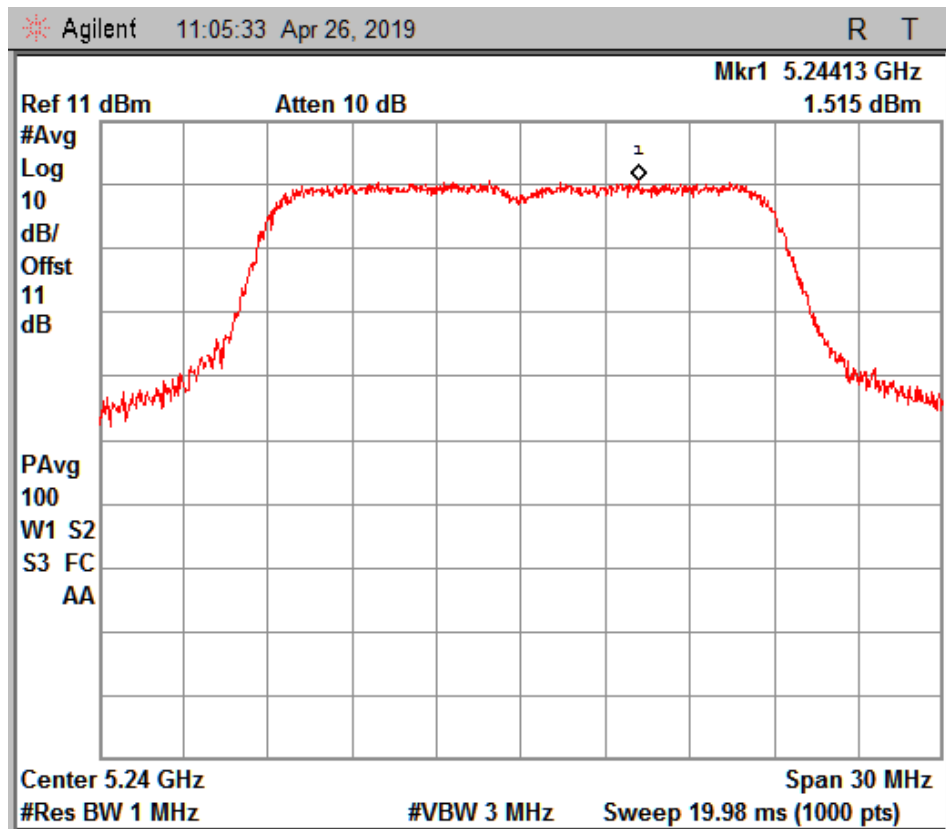
ULR-TC568819300000023F 001

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Data rate: MCS8

Channel Frequency : 5.180 GHz



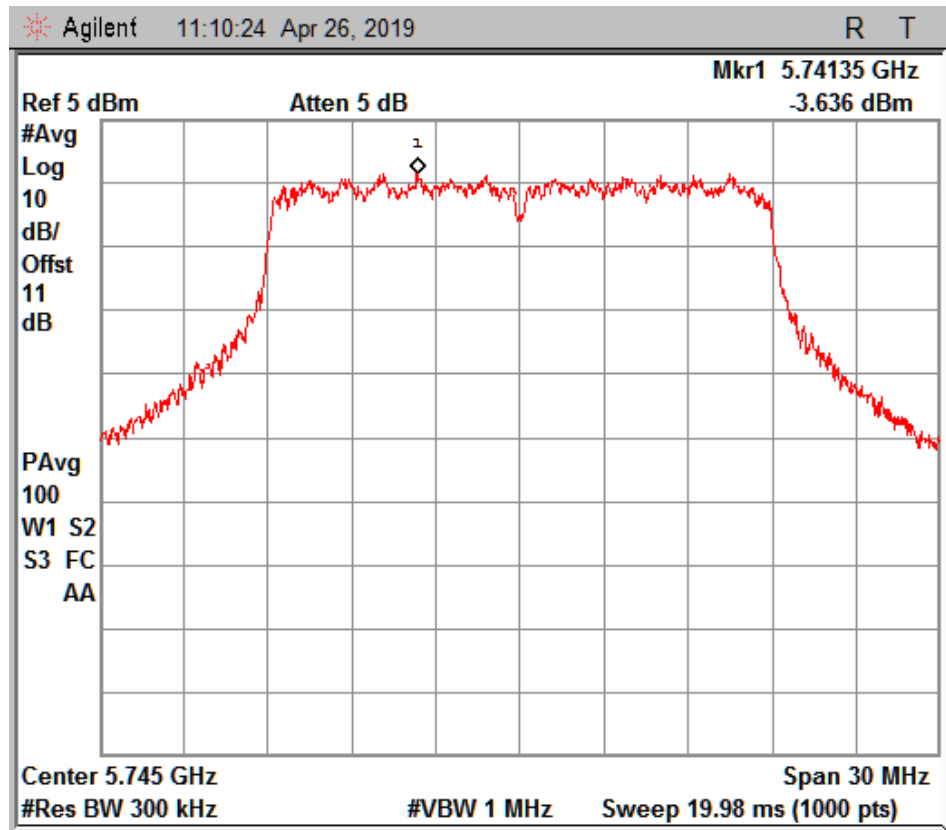
Data rate: MCS8

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

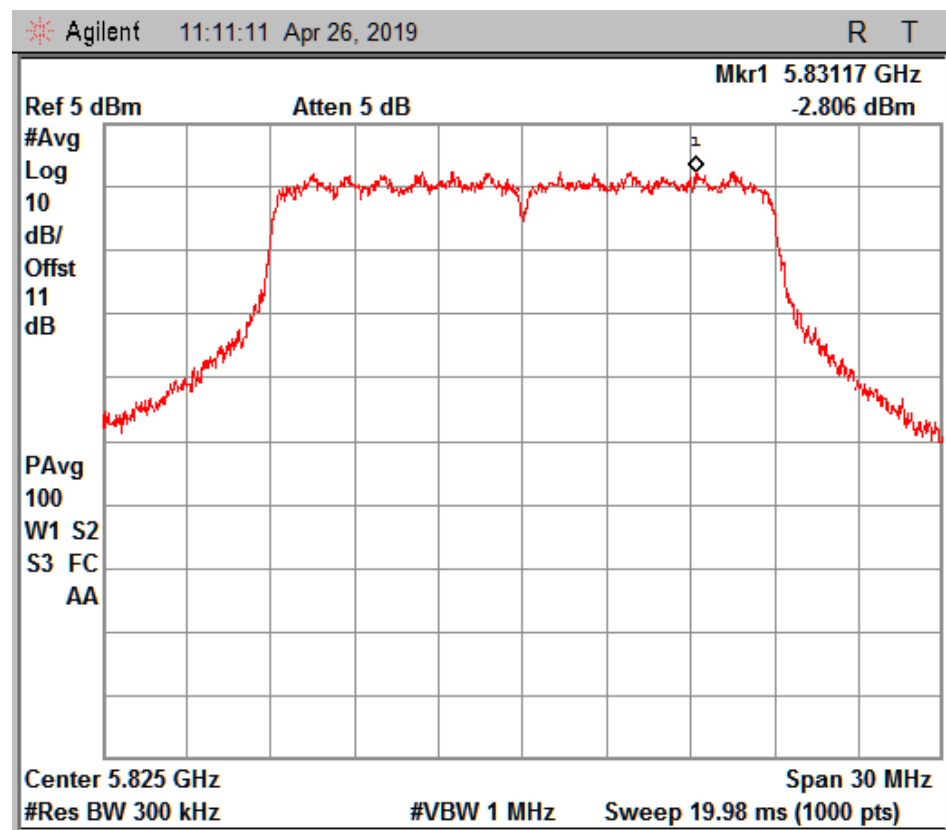
ULR-TC568819300000023F 001

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Data rate: MCS8

Channel Frequency : 5.745 GHz



Data rate: MCS8

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:

Test Report No.:

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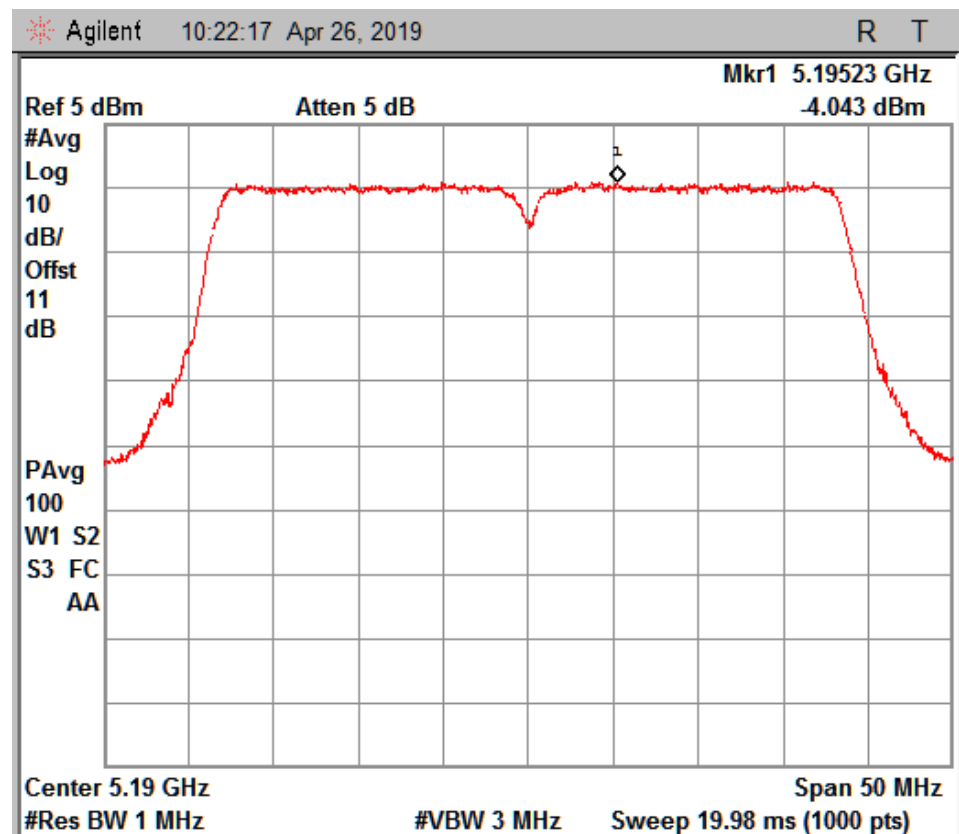
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Modulation: 802.11ac mode MIMO_VHT40

Data Rate(Mbps)	Frequency (MHz)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	Add 10log(Nant)	Total PSD for Chain 1 (dBm)	Total PSD for Chain 2 (dBm)	Limit (dBm)
MCS0	5190	-4.04	-3.06	3.01	-1.03	-0.05	11
	5230	-2.75	-1.02	3.01	0.26	1.99	11
	5755	-6.78	-5.37	3.01	-3.77	-2.36	11
	5795	-6.97	-5.49	3.01	-3.96	-2.48	11
MCS5	5190	-5.34	-4.21	3.01	-2.33	-1.20	11
	5230	-3.95	-2.75	3.01	-0.94	0.26	11
	5755	-7.10	-5.45	3.01	-4.09	-2.44	11
	5795	-7.12	-5.42	3.01	-4.11	-2.41	11
MCS9	5190	-4.20	-2.41	3.01	-1.19	0.60	11
	5230	-5.52	-2.41	3.01	-2.51	0.60	11
	5755	-6.92	-4.89	3.01	-3.91	-1.88	11
	5795	-6.85	-5.61	3.01	-3.84	-2.60	11

Chain 1



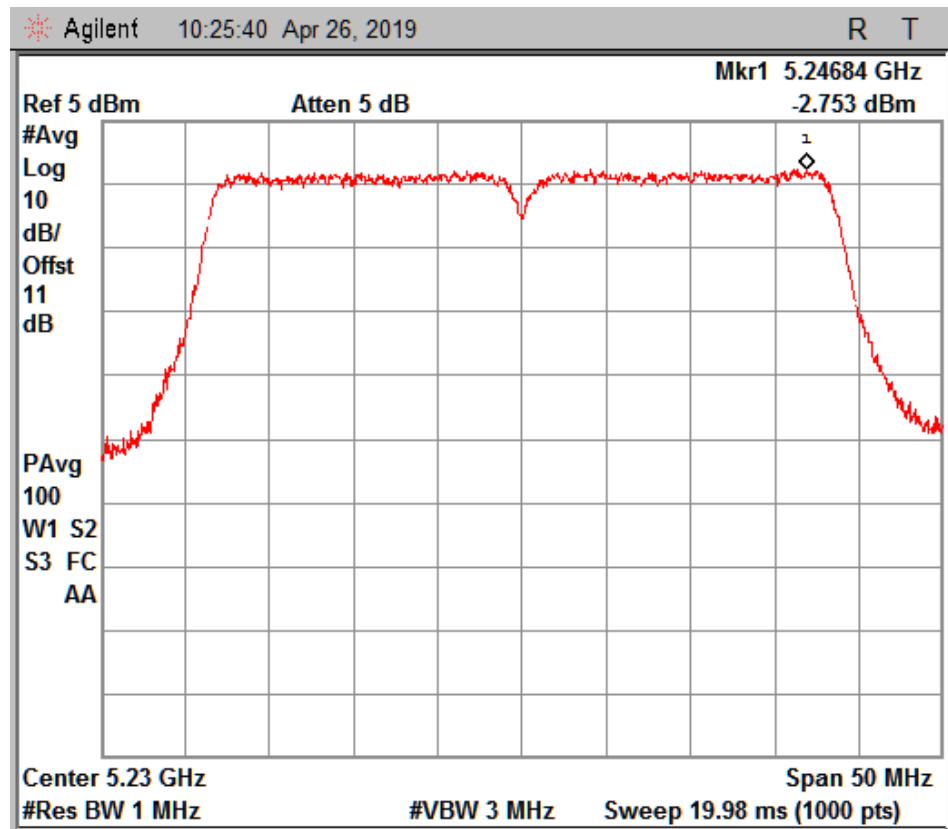
Data rate: MCS0

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

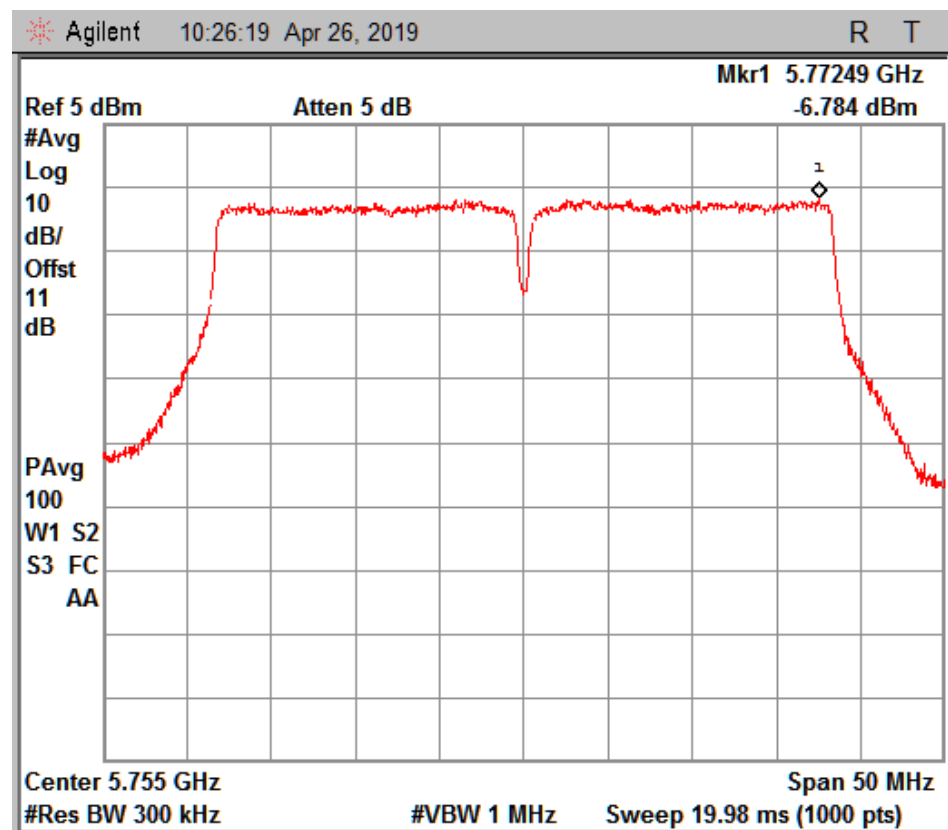
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.230 GHz



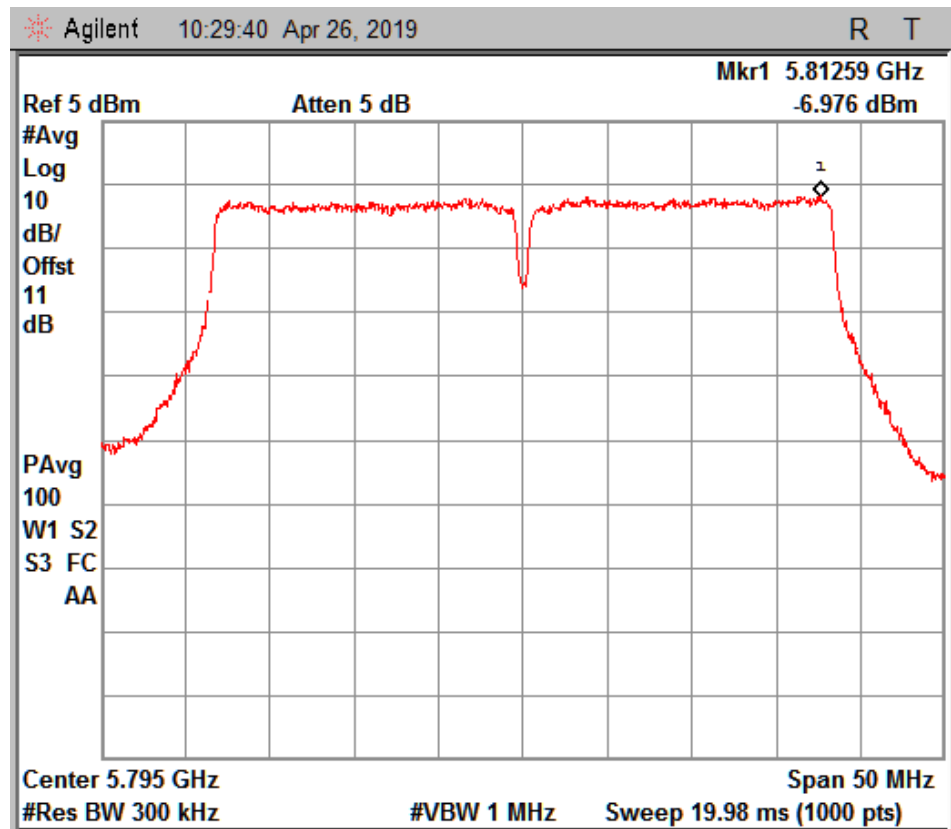
Data rate: MCS0

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

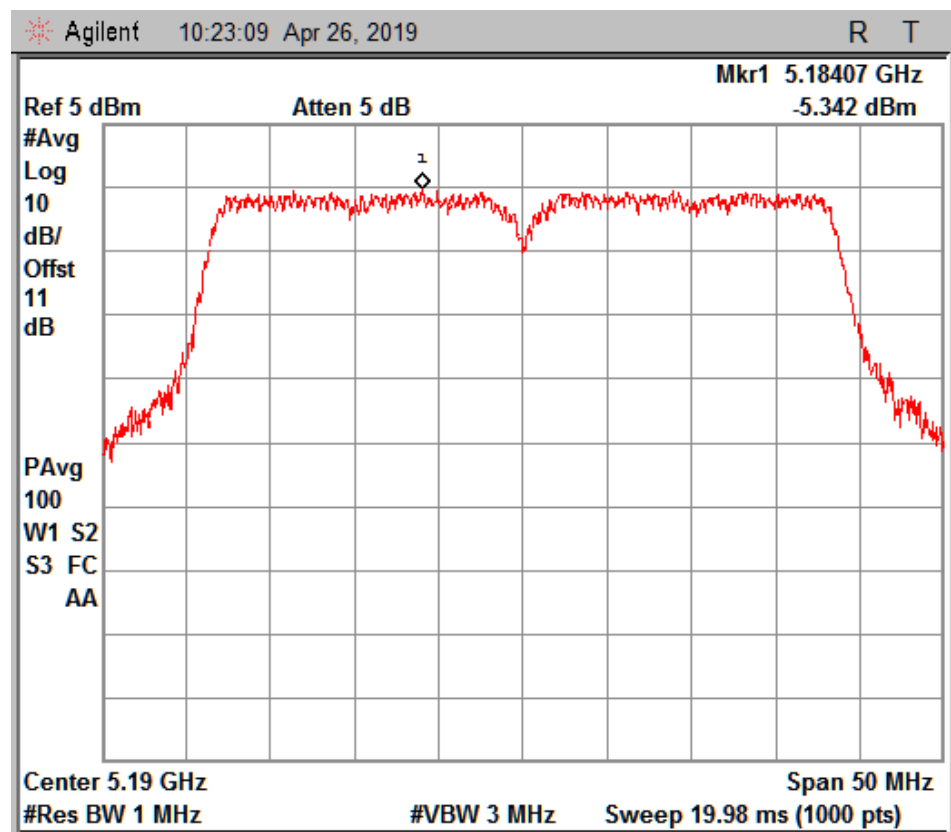
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.795 GHz



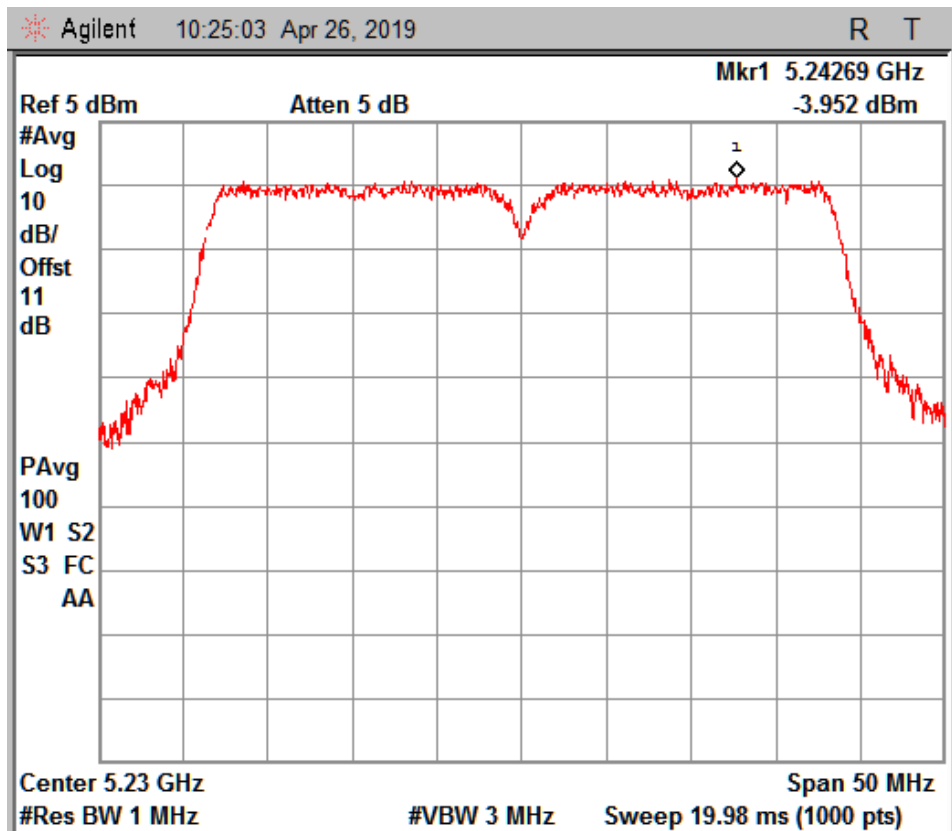
Data rate: MCS5

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

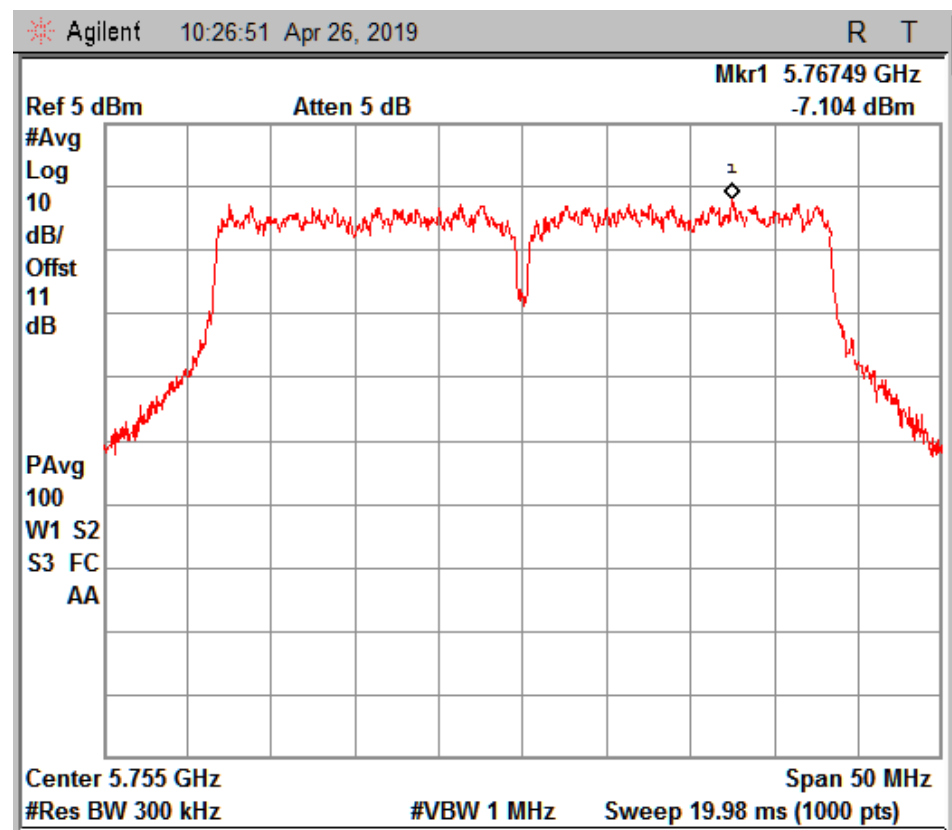
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Data rate: MCS5

Channel Frequency : 5.230 GHz



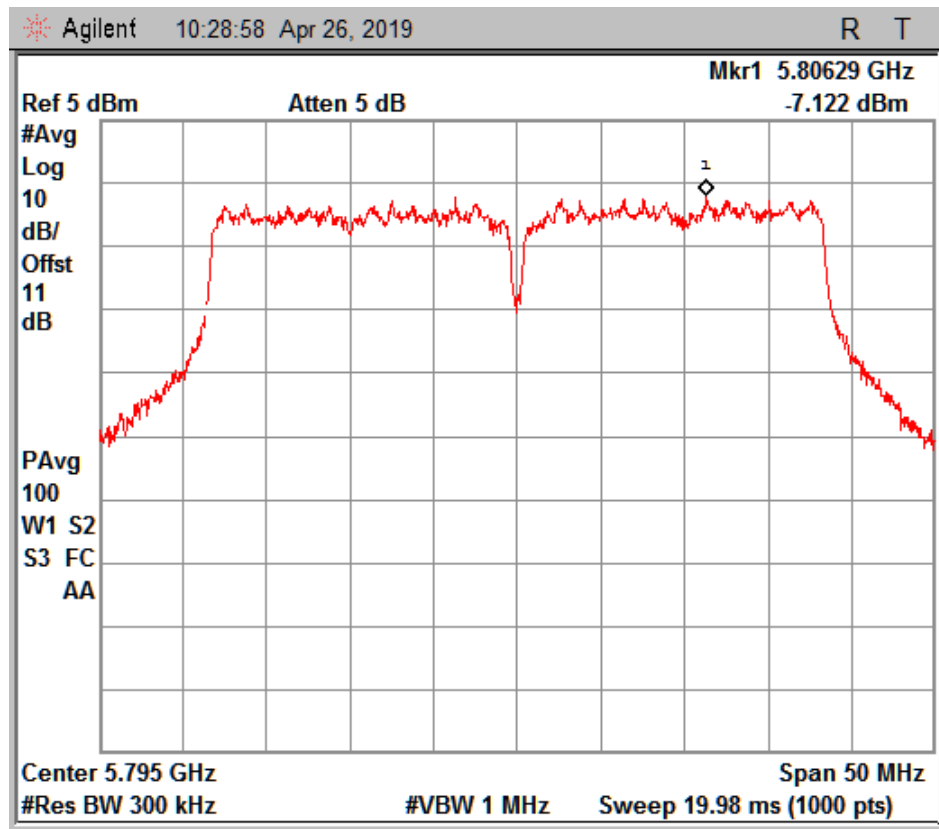
Data rate: MCS5

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

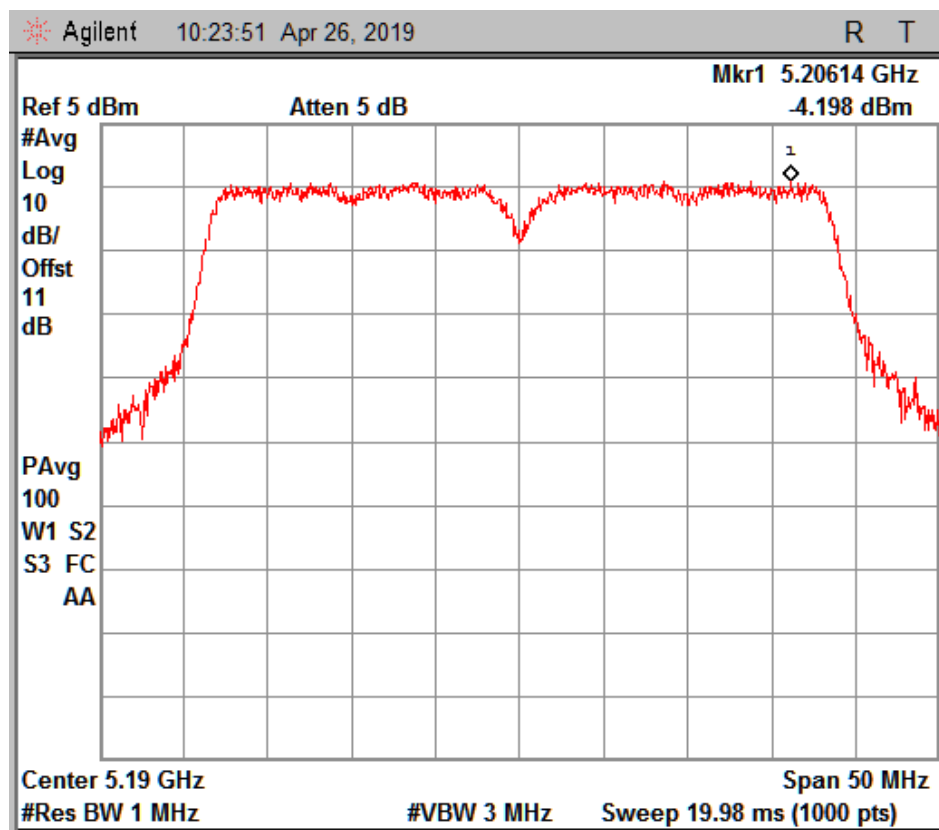
ULR-TC568819300000023F 001

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Data rate: MCS5

Channel Frequency : 5.795 GHz



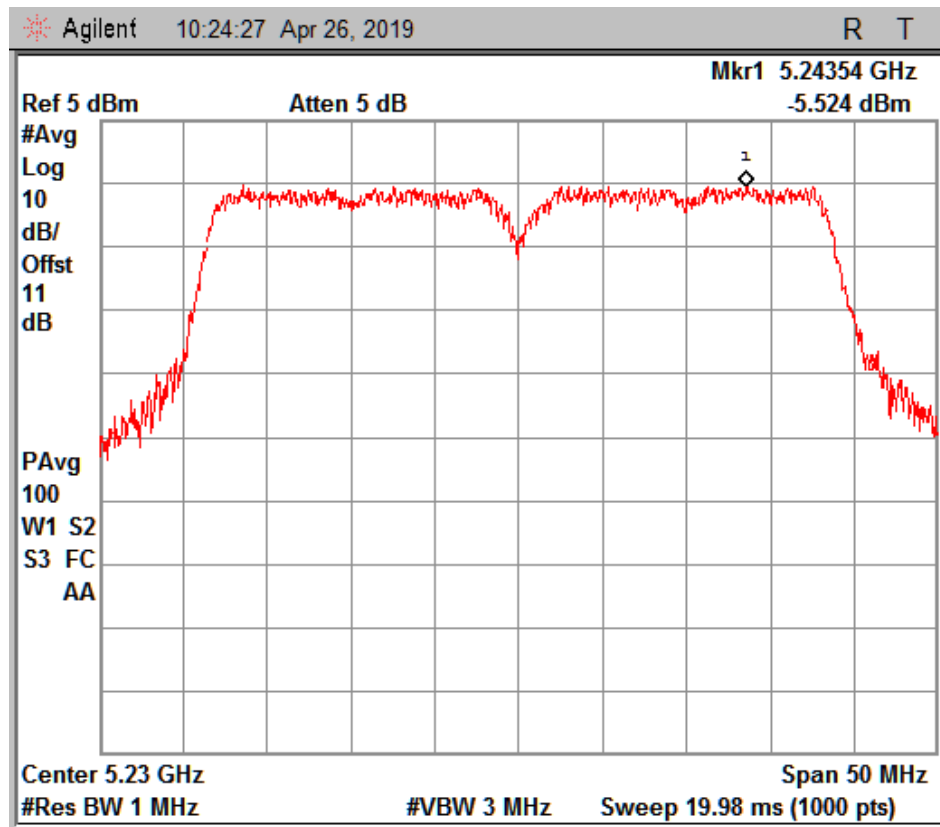
Data rate: MCS9

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

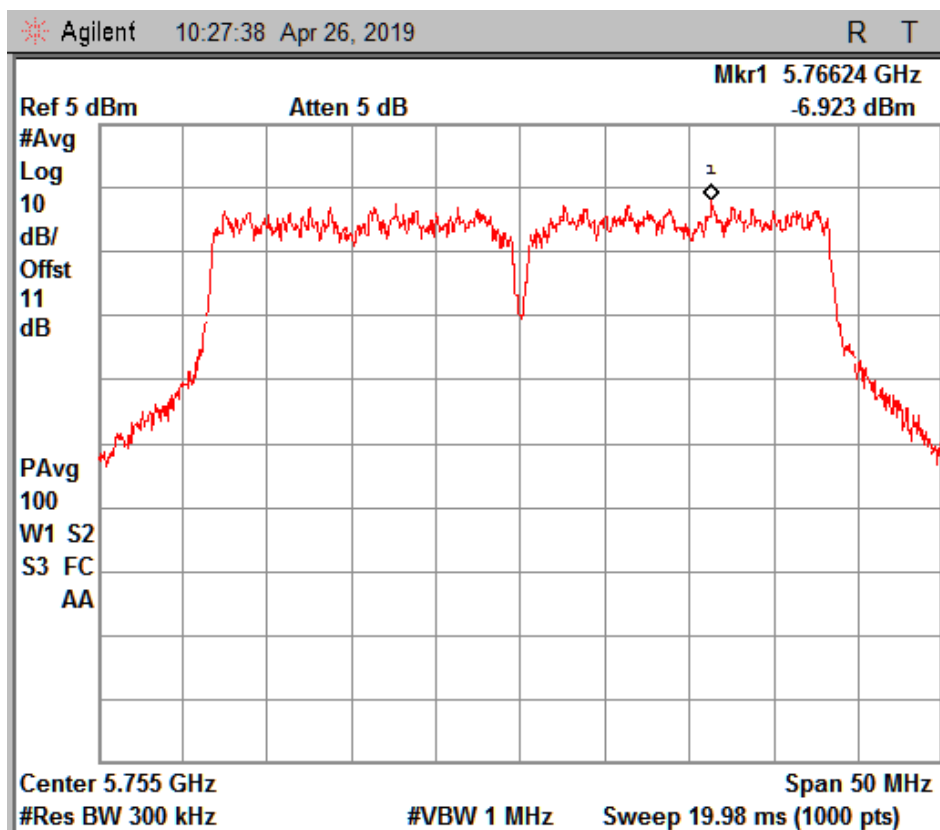
ULR-TC568819300000023F 001

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Data rate: MCS9

Channel Frequency : 5.230 GHz



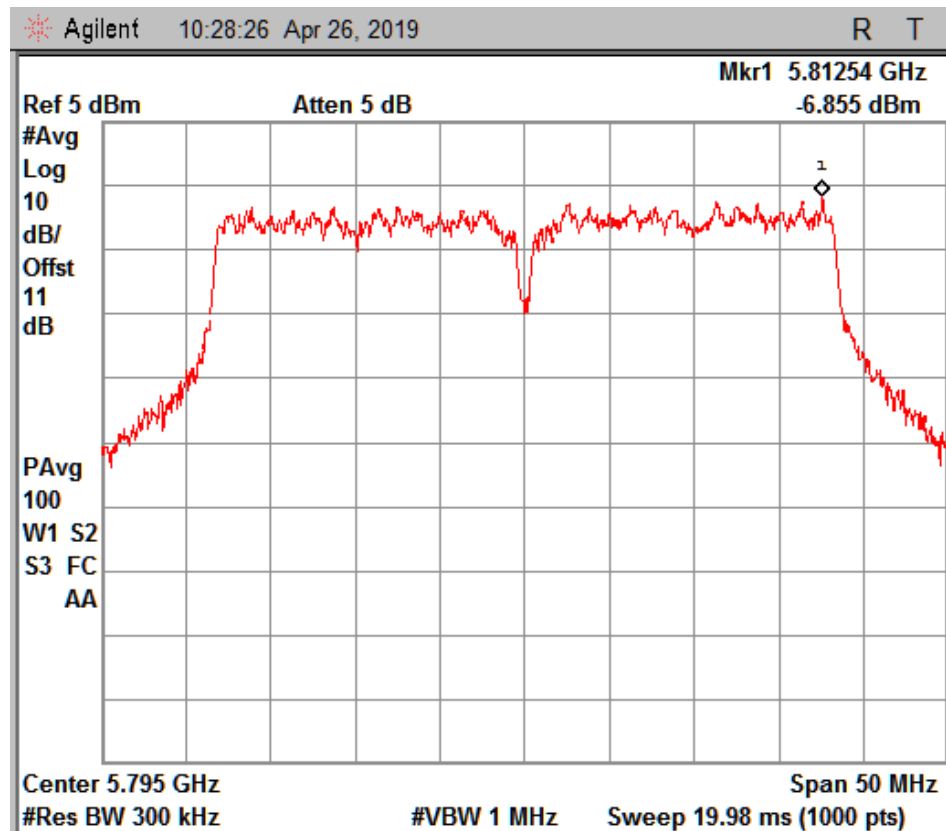
Data rate: MCS9

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

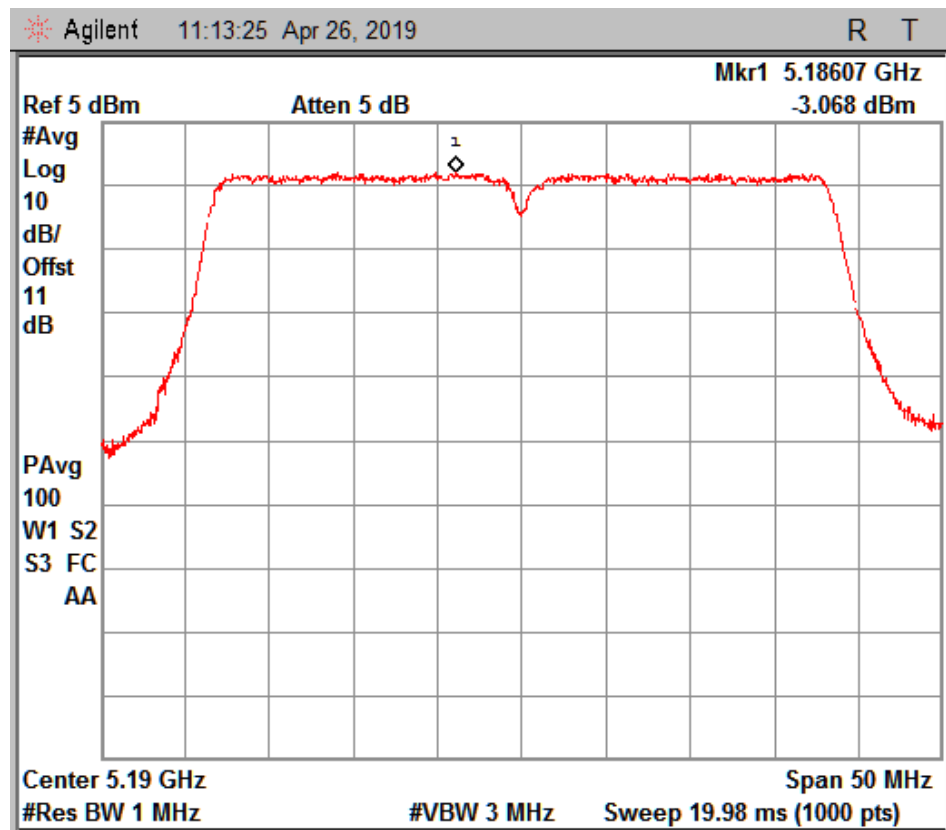
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Data rate: MCS9

Channel Frequency : 5.795 GHz

Chain 2



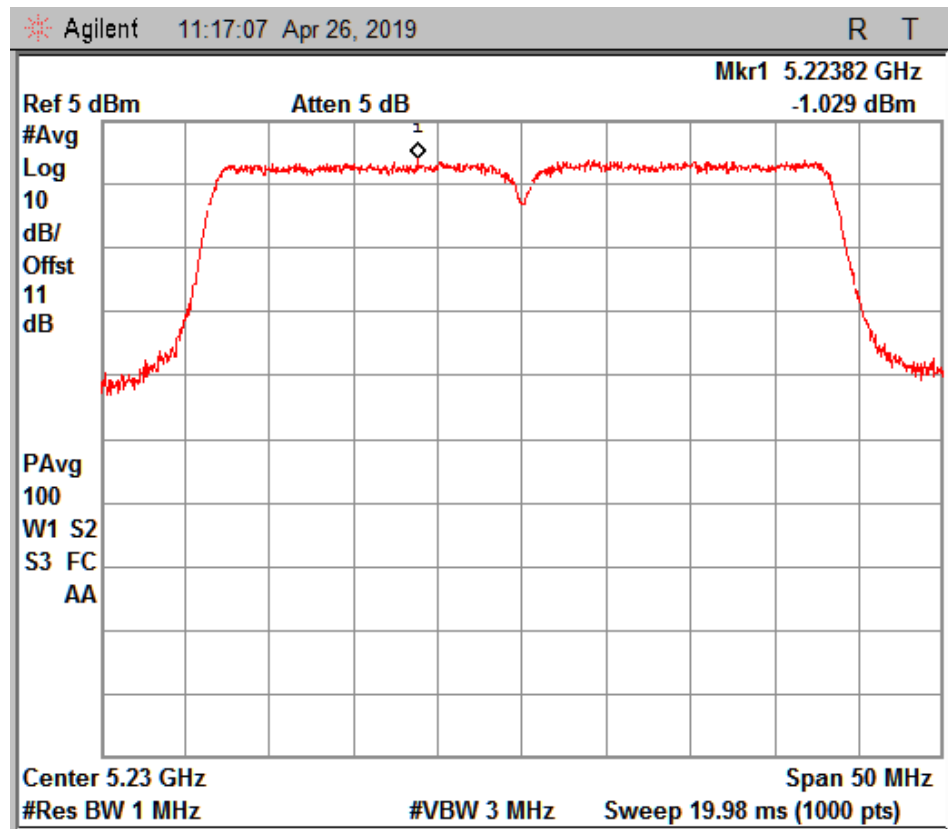
Data rate: MCS0

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

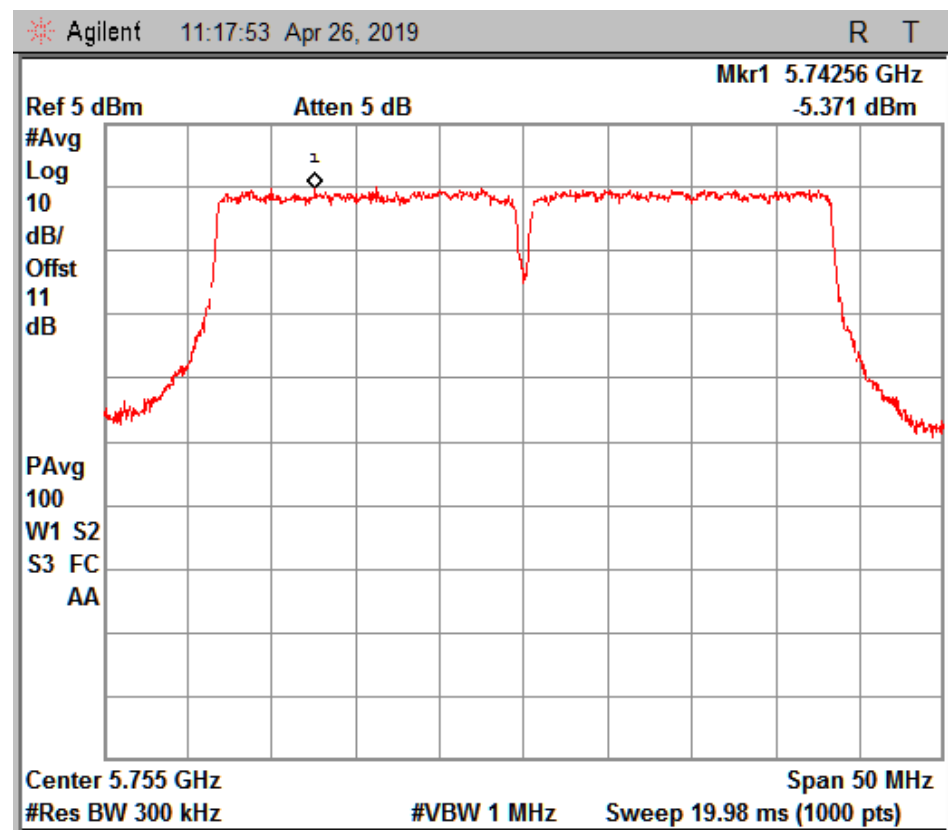
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.230 GHz



Data rate: MCS0

Channel Frequency : 5.755 GHz

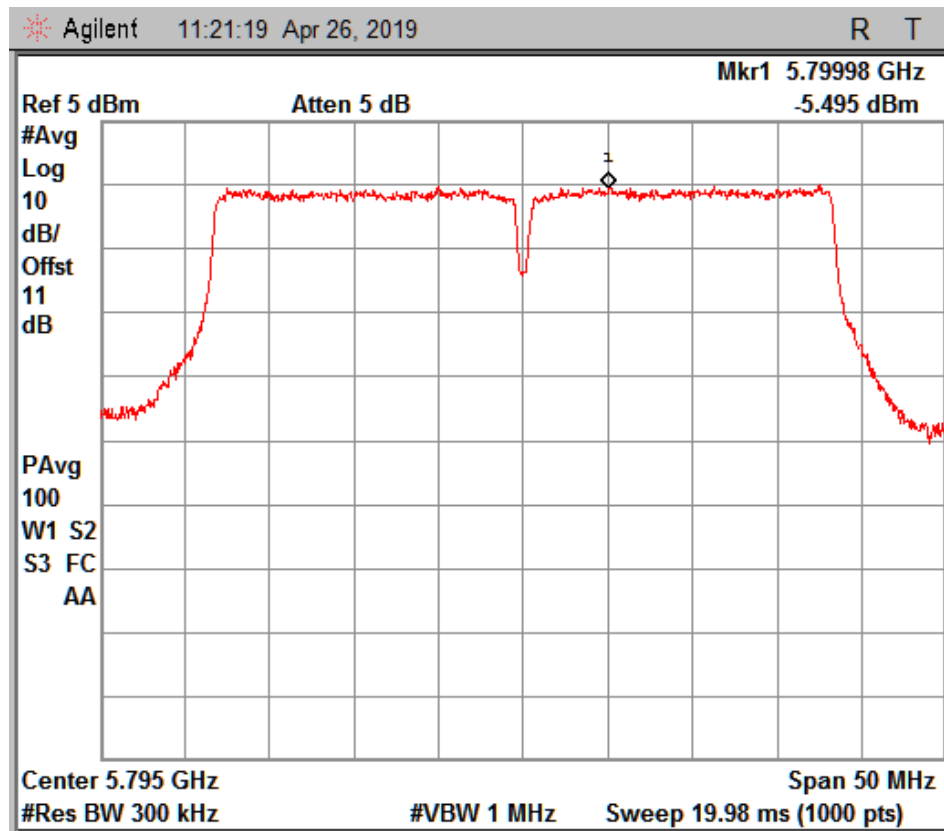
Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

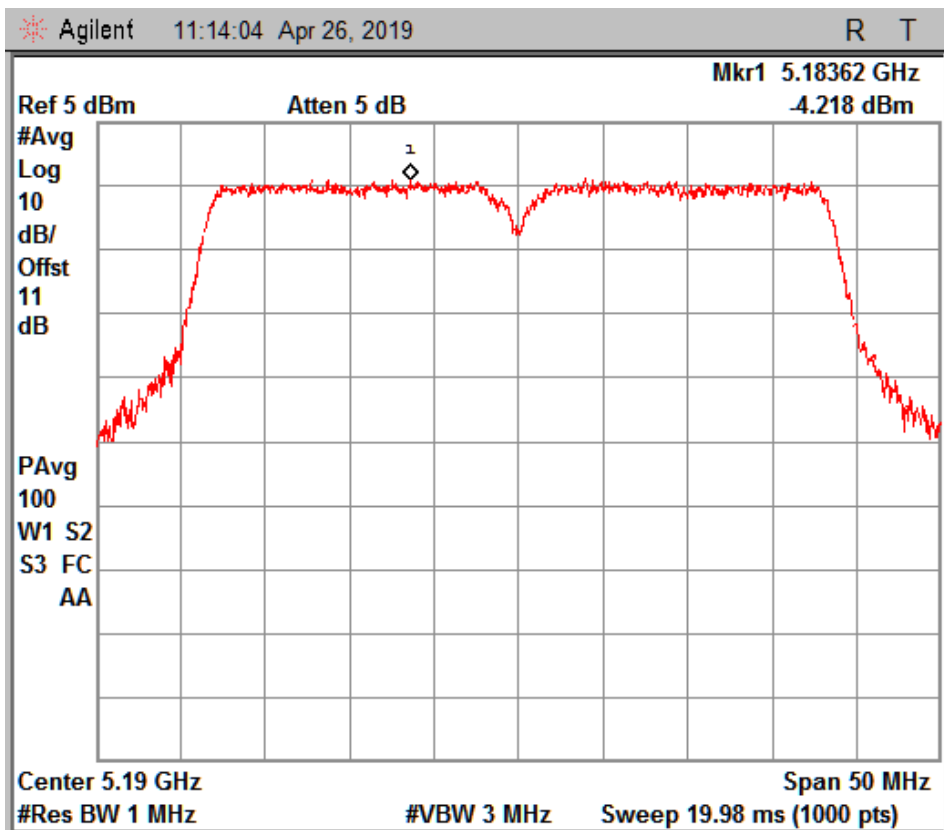
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Data rate: MCS0

Channel Frequency : 5.795 GHz



Data rate: MCS5

Channel Frequency : 5.190 GHz

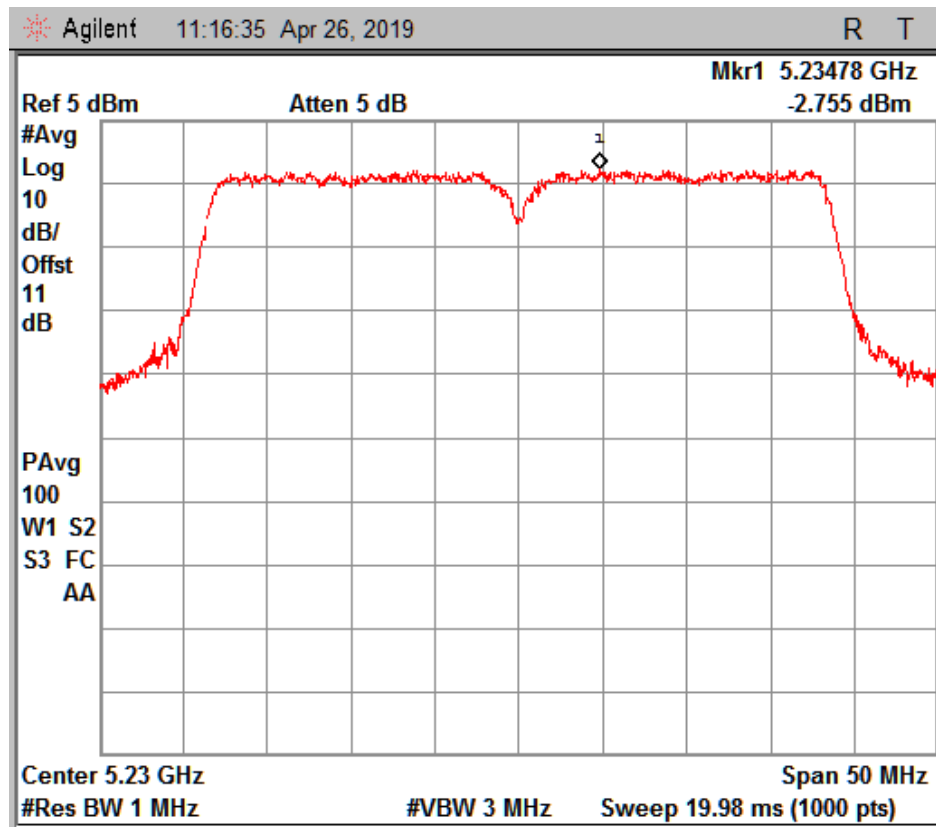
Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

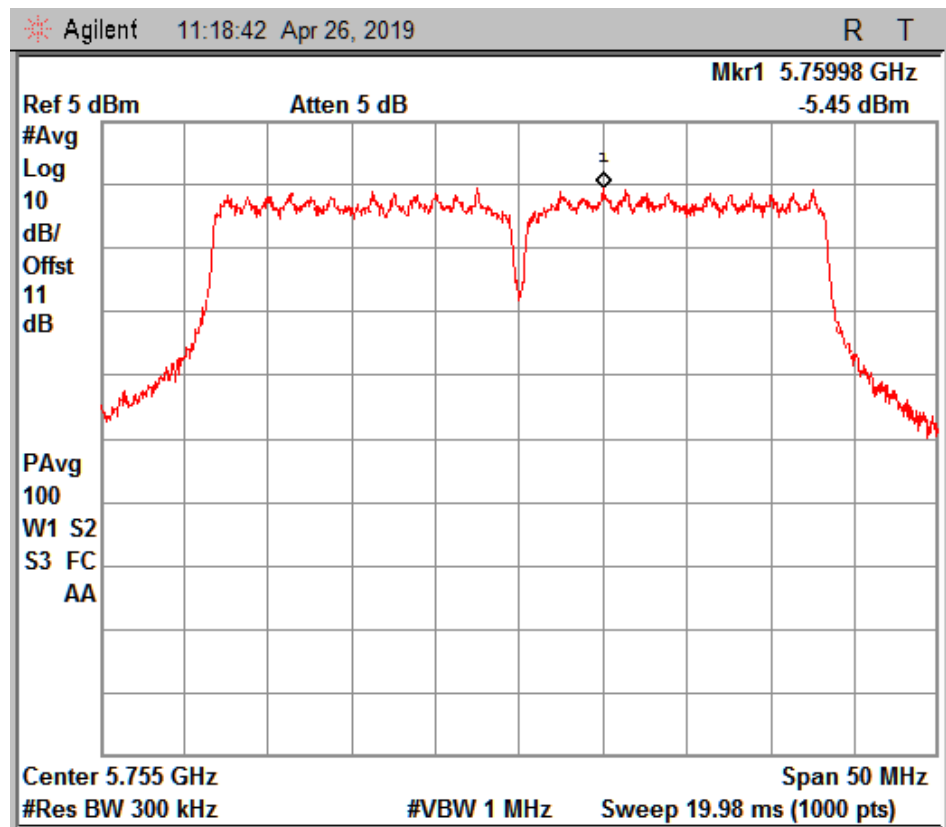
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Data rate: MCS5

Channel Frequency : 5.230 GHz



Data rate: MCS5

Channel Frequency : 5.755 GHz

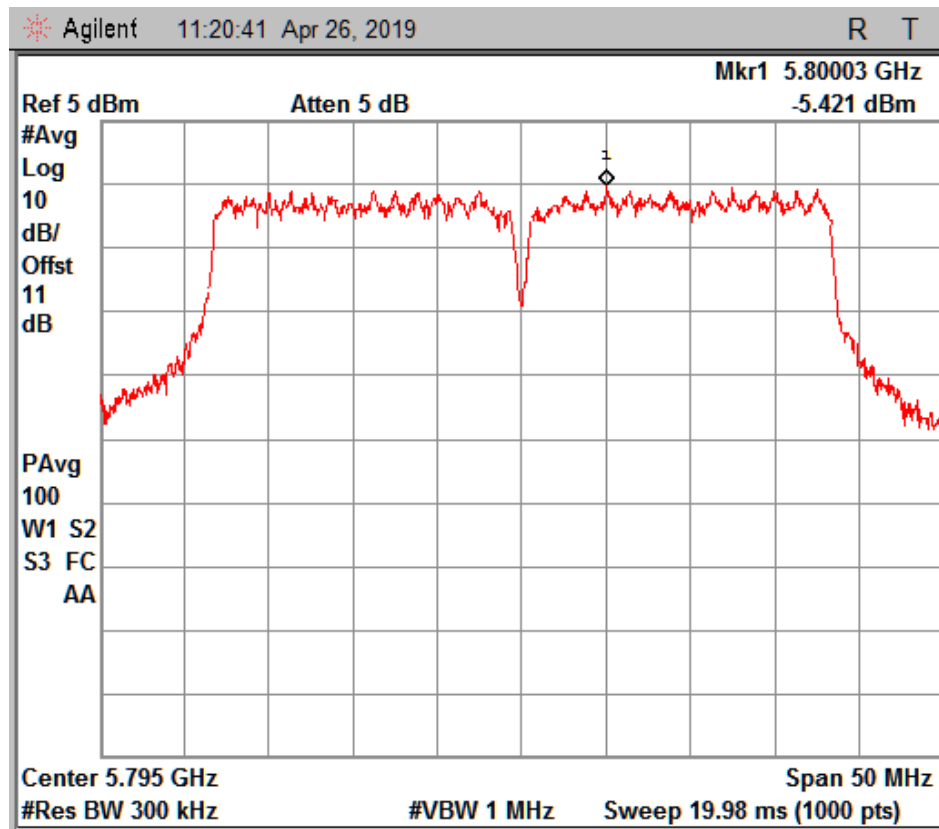
Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

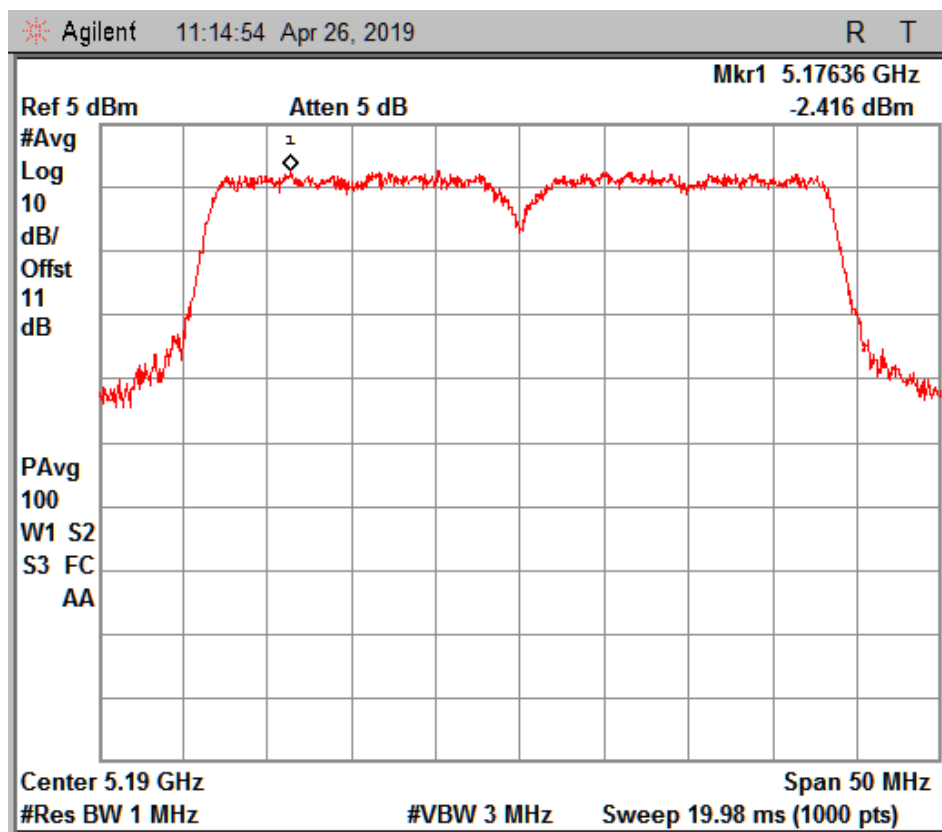
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Data rate: MCS5

Channel Frequency : 5.795 GHz



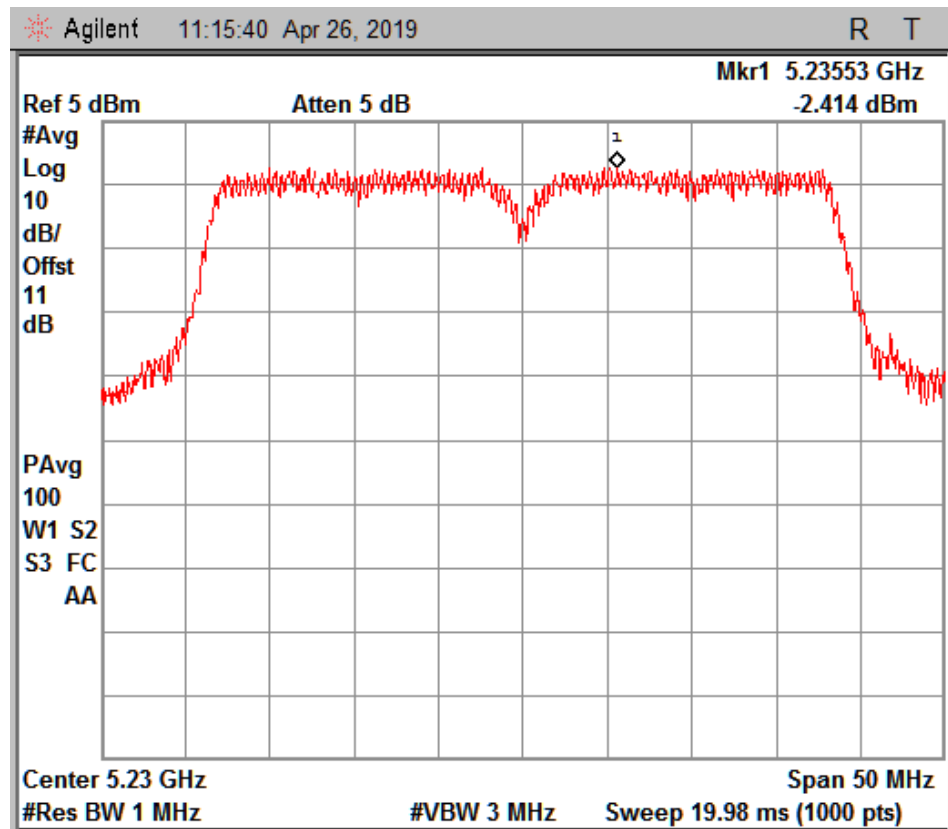
Data rate: MCS9

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

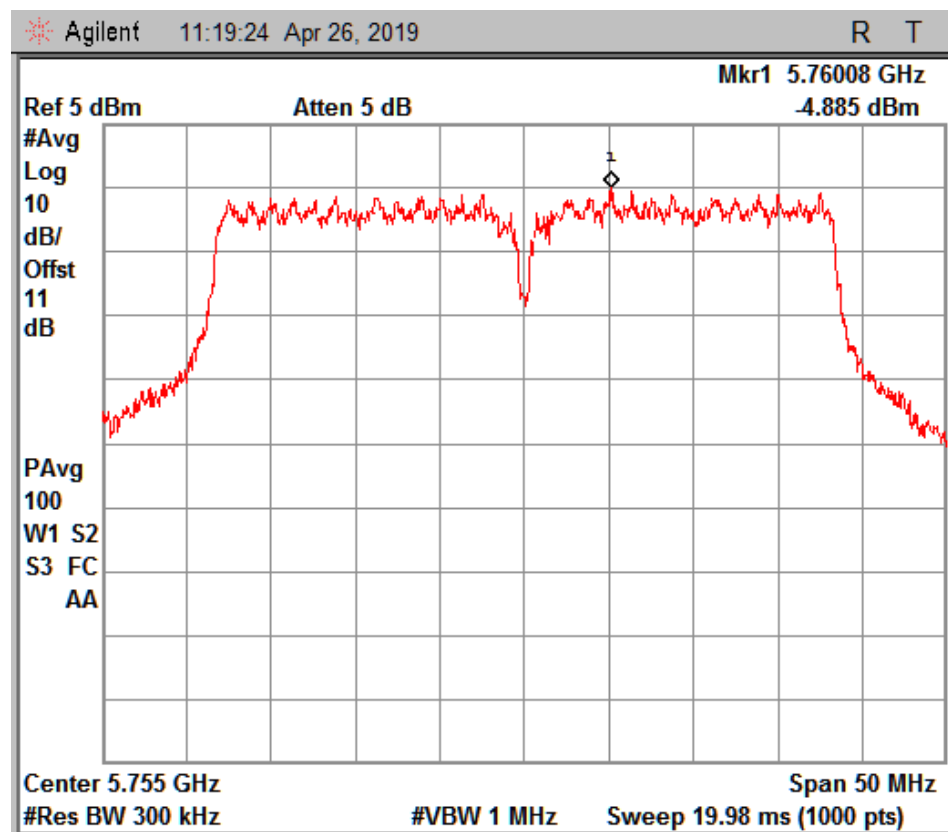
ULR-TC568819300000023F 001

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Data rate: MCS9

Channel Frequency : 5.230 GHz



Data rate: MCS9

Channel Frequency : 5.755 GHz

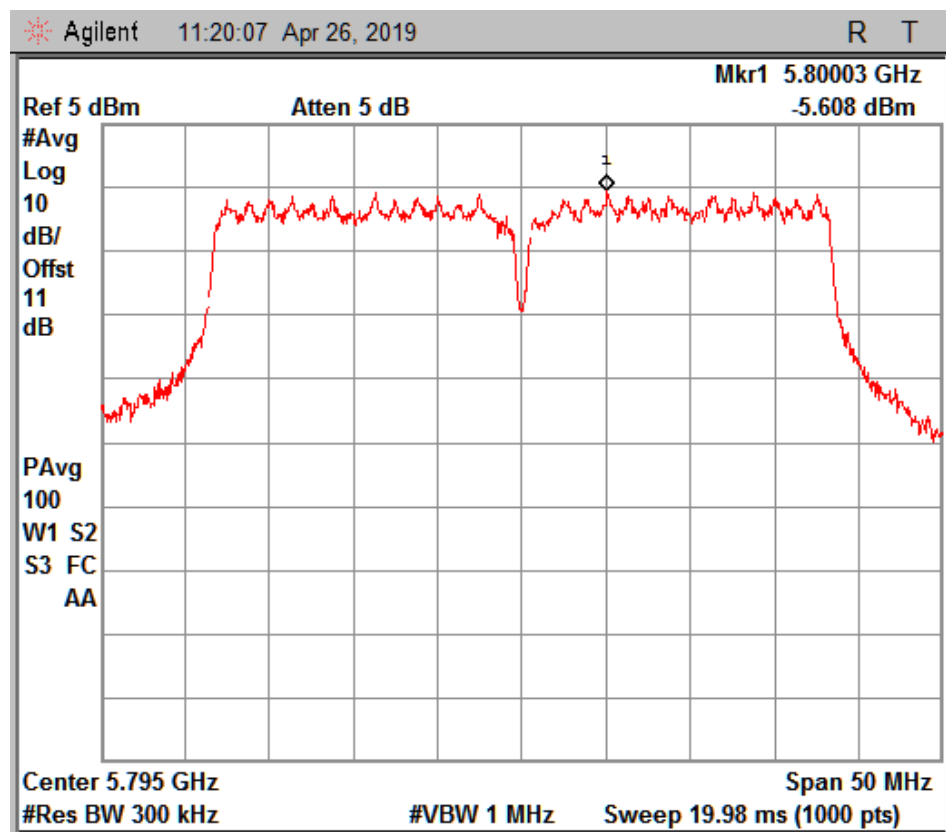
Prüfbericht - Nr.:

Test Report No.:

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Data rate: MCS9

Channel Frequency : 5.795 GHz

Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

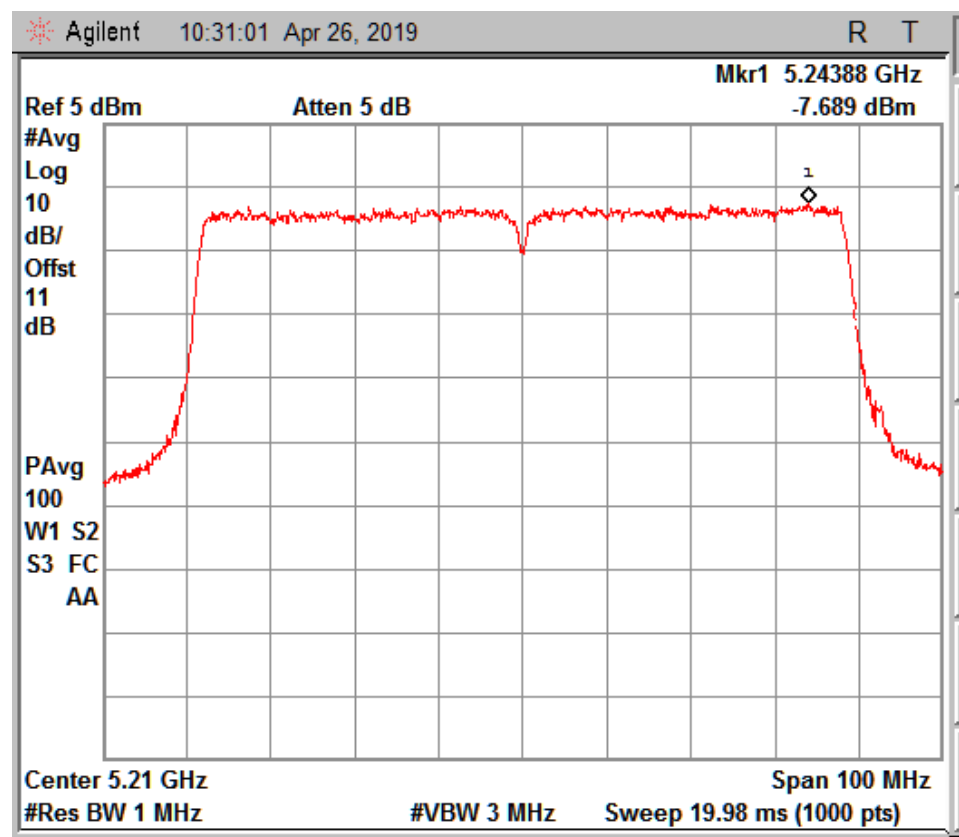
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Modulation: 802.11ac mode MIMO_VHT80

Data Rate (Mbps)	Frequency (MHz)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	Add 10log(Nant)	Total PSD for Chain 1 (dBm)	Total PSD for Chain 2 (dBm)	Limit (dBm)
MCS0	5210	-7.68	-5.26	3.01	-4.67	-2.25	11
	5775	-9.05	-8.52	3.01	-6.04	-5.51	11
MCS5	5210	-9.23	-7.98	3.01	-6.22	-4.97	11
	5775	-9.77	-7.84	3.01	-6.76	-4.83	11
MCS9	5210	-9.50	-7.64	3.01	-6.49	-4.63	11
	5775	-9.37	-7.11	3.01	-6.36	-4.10	11

Chain 1



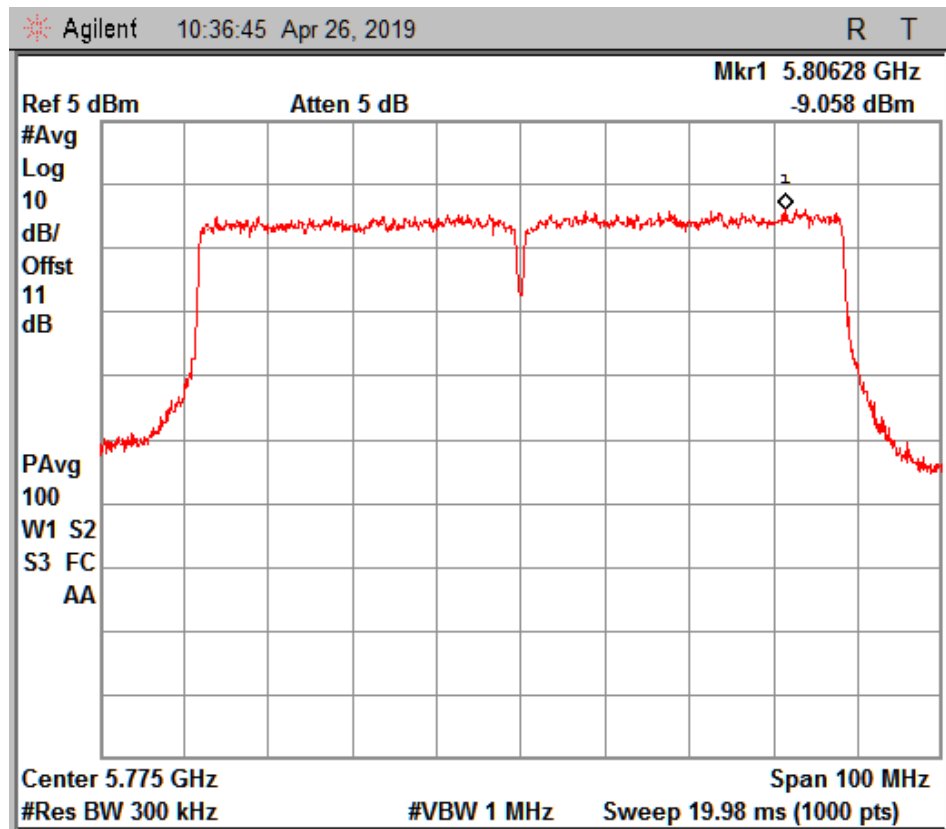
Data rate: MCS0

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

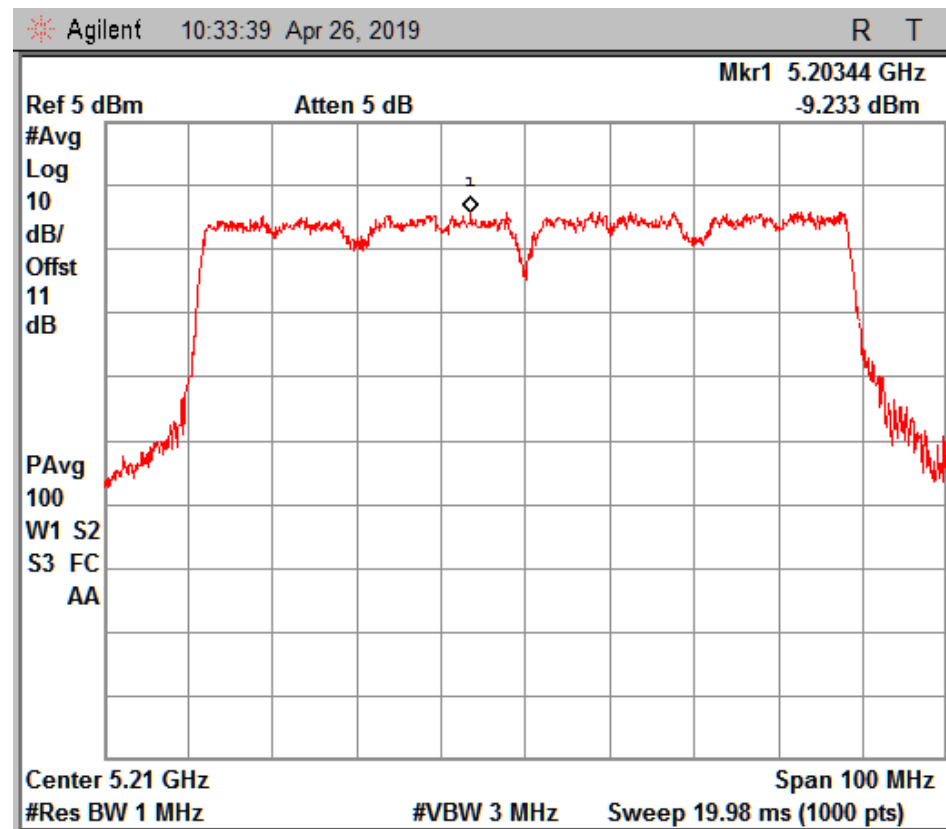
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.795 GHz



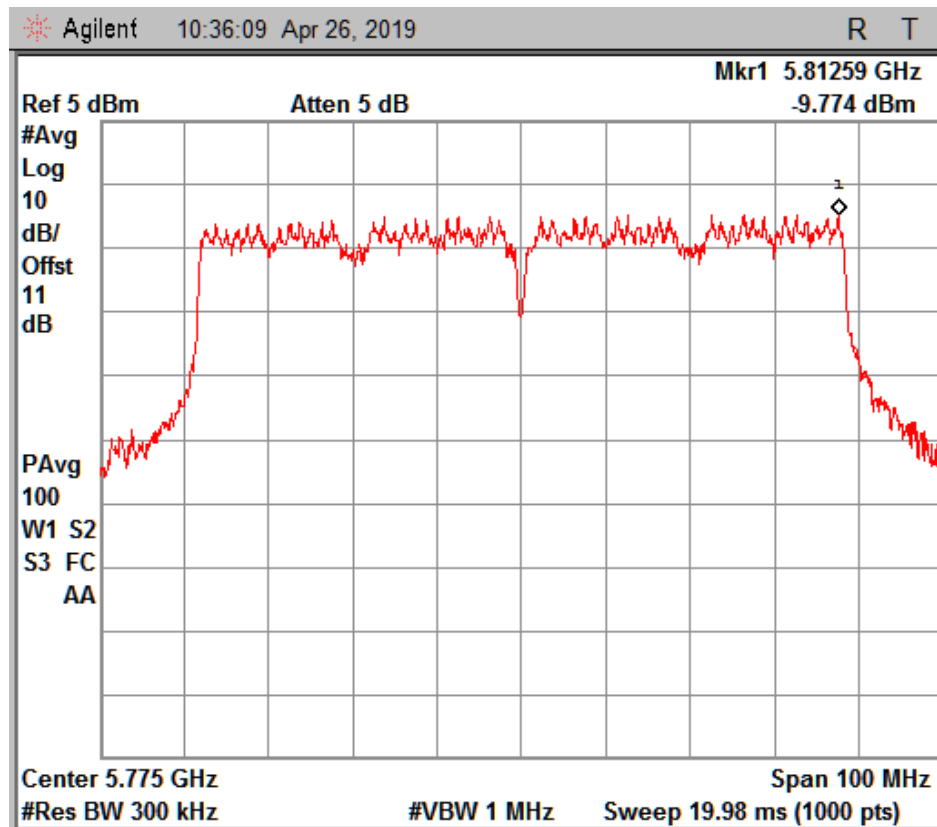
Data rate: MCS5

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

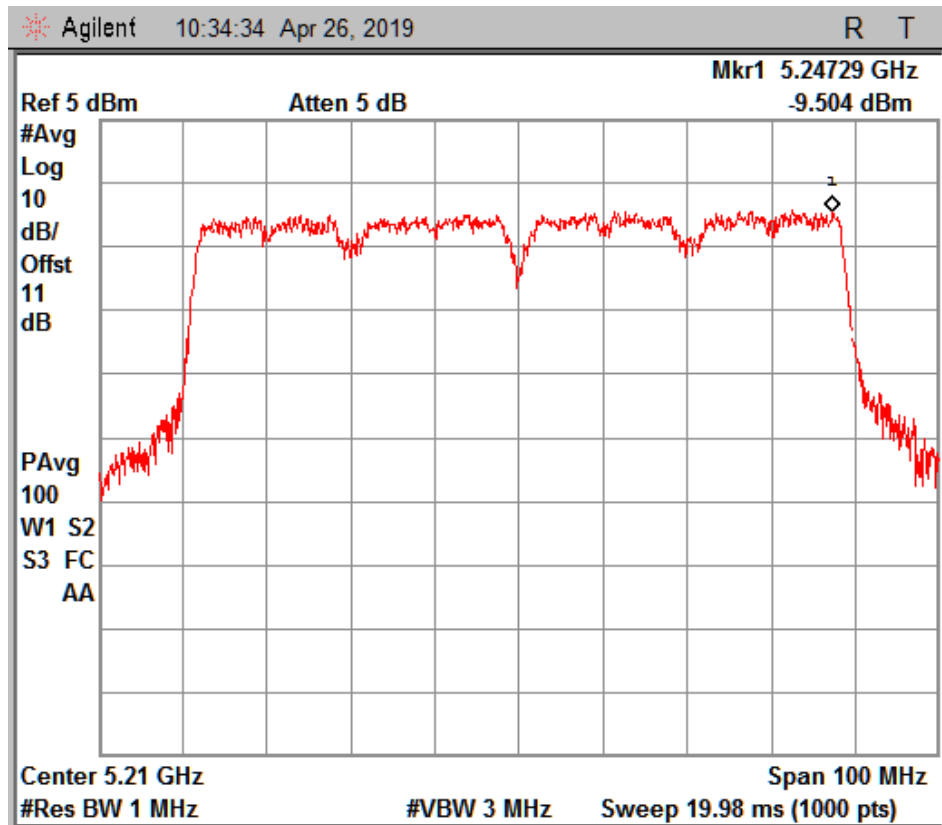
ULR-TC568819300000023F 001

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Data rate: MCS5

Channel Frequency : 5.795 GHz



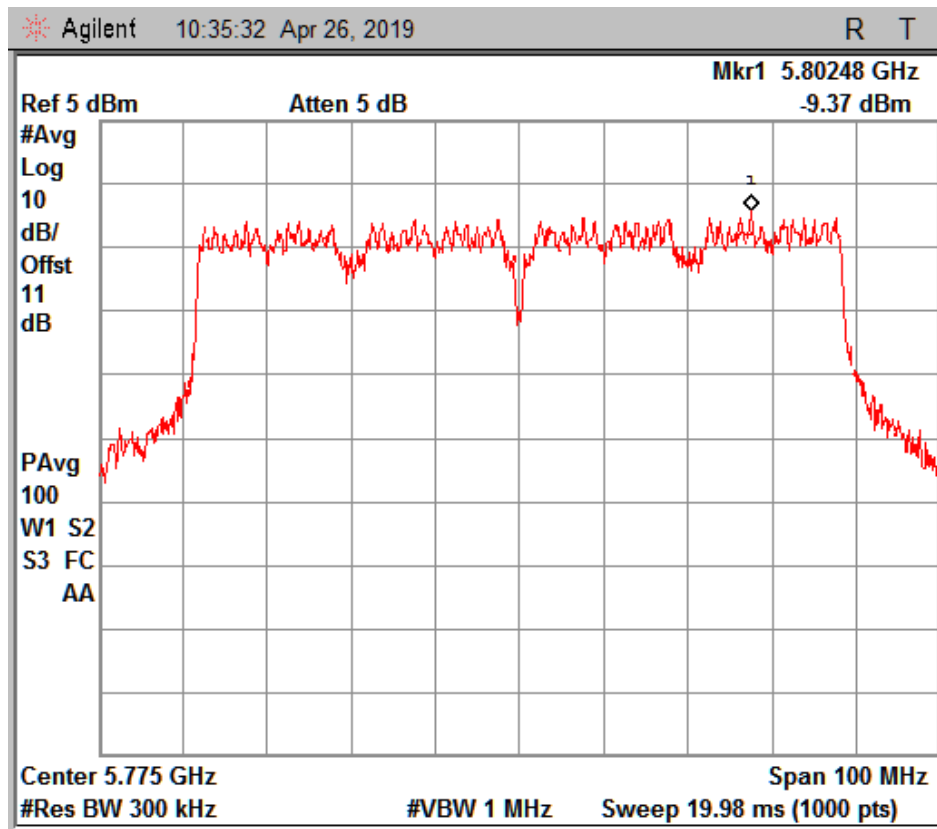
Data rate: MCS9

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

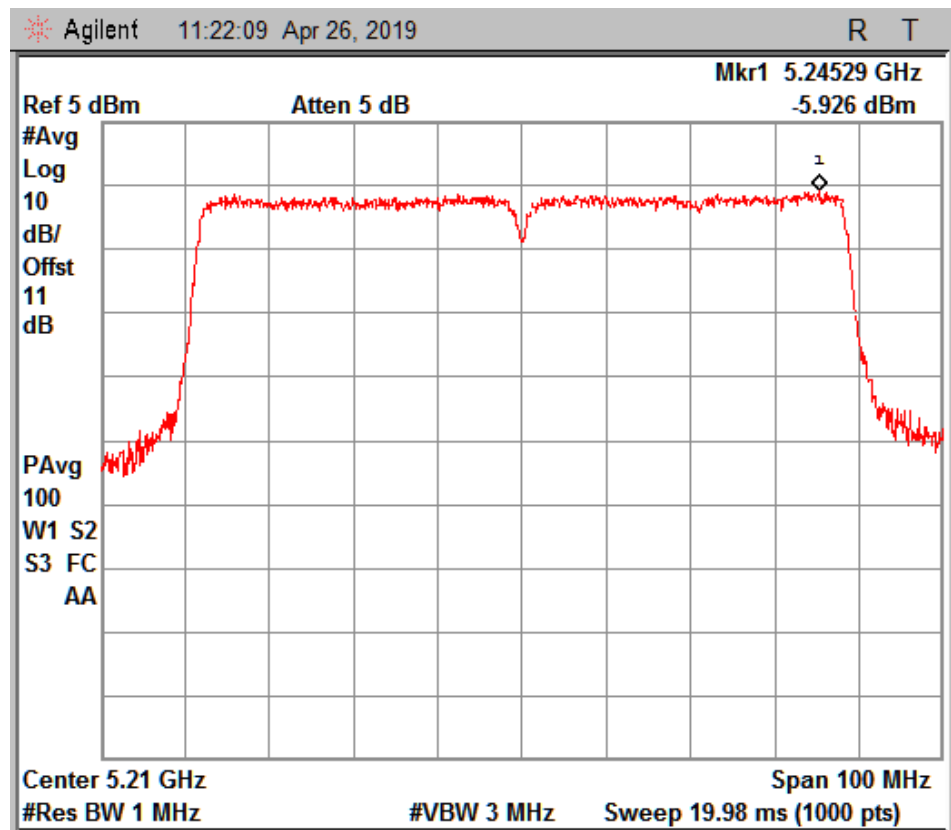
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Data rate: MCS9

Channel Frequency : 5.795 GHz

Chain 2



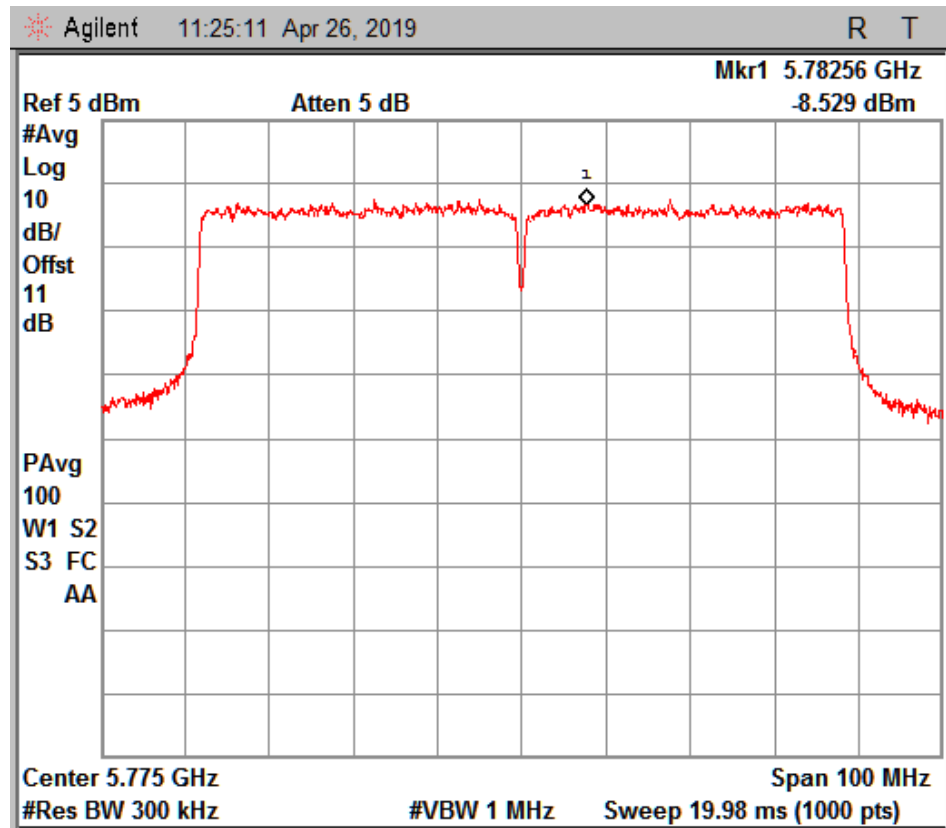
Data rate: MCS0

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

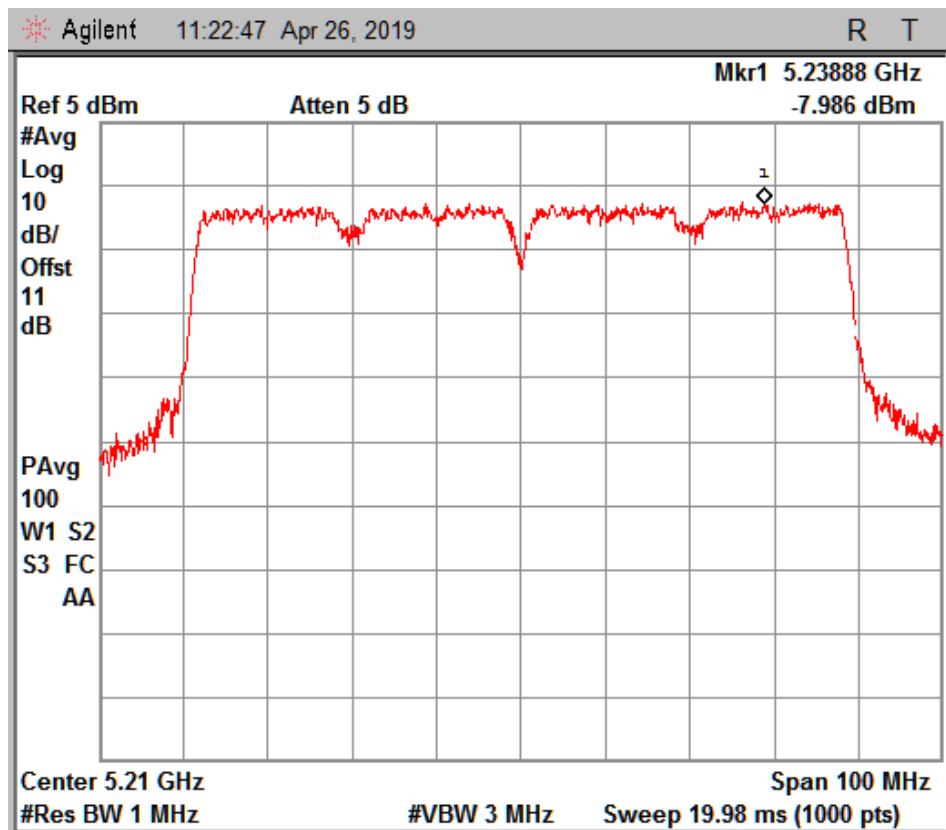
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.795 GHz



Data rate: MCS5

Channel Frequency : 5.210 GHz

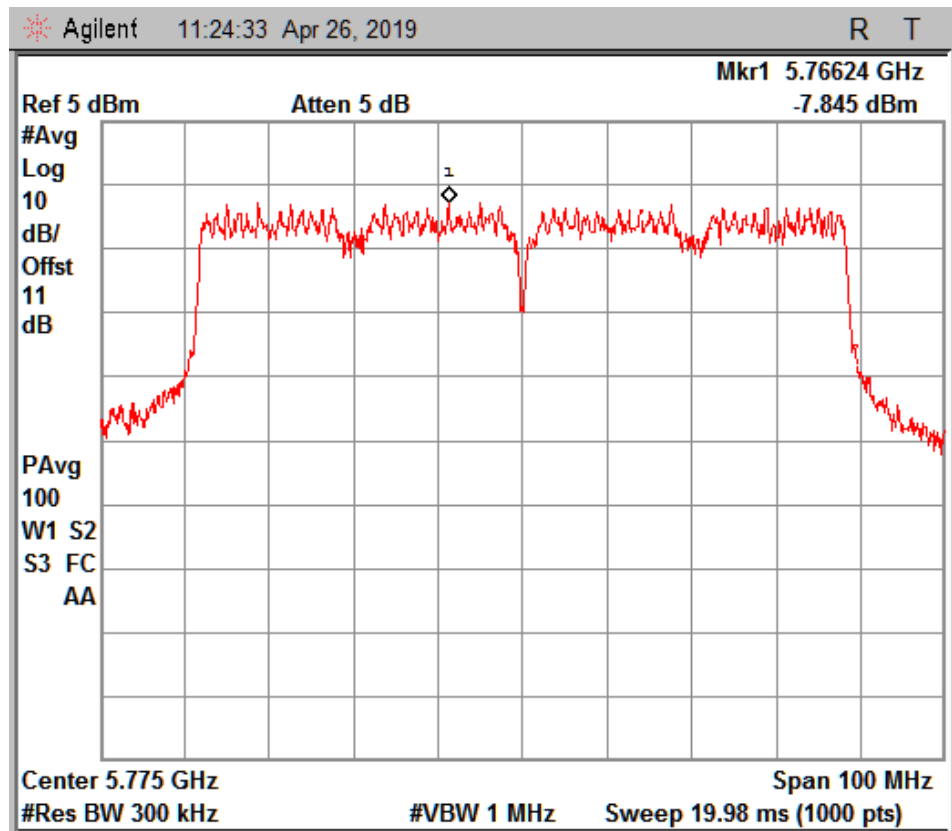
Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

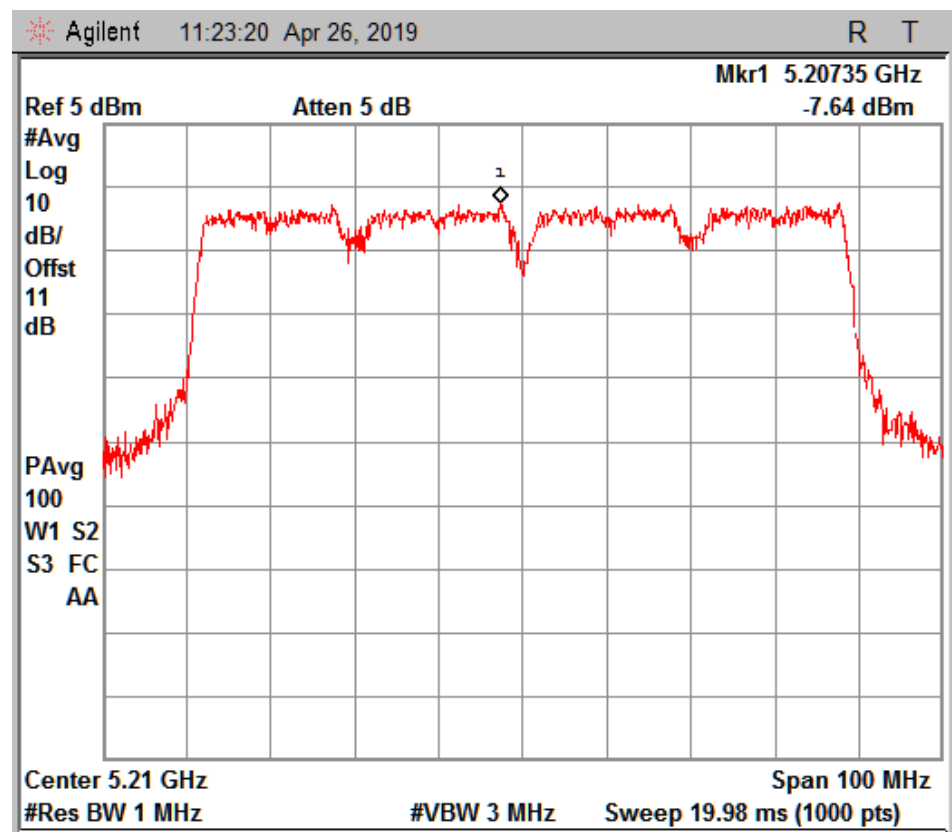
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Data rate: MCS5

Channel Frequency : 5.795 GHz



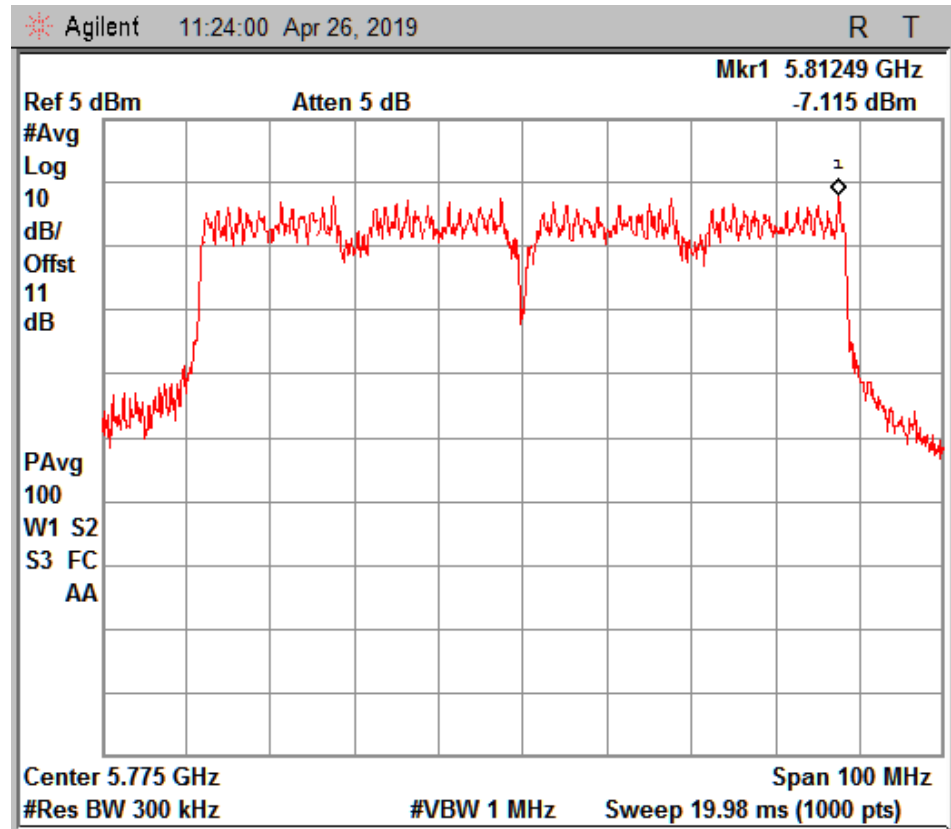
Data rate: MCS9

Channel Frequency : 5.210 GHz

Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

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Data rate: MCS9

Channel Frequency : 5.795 GHz

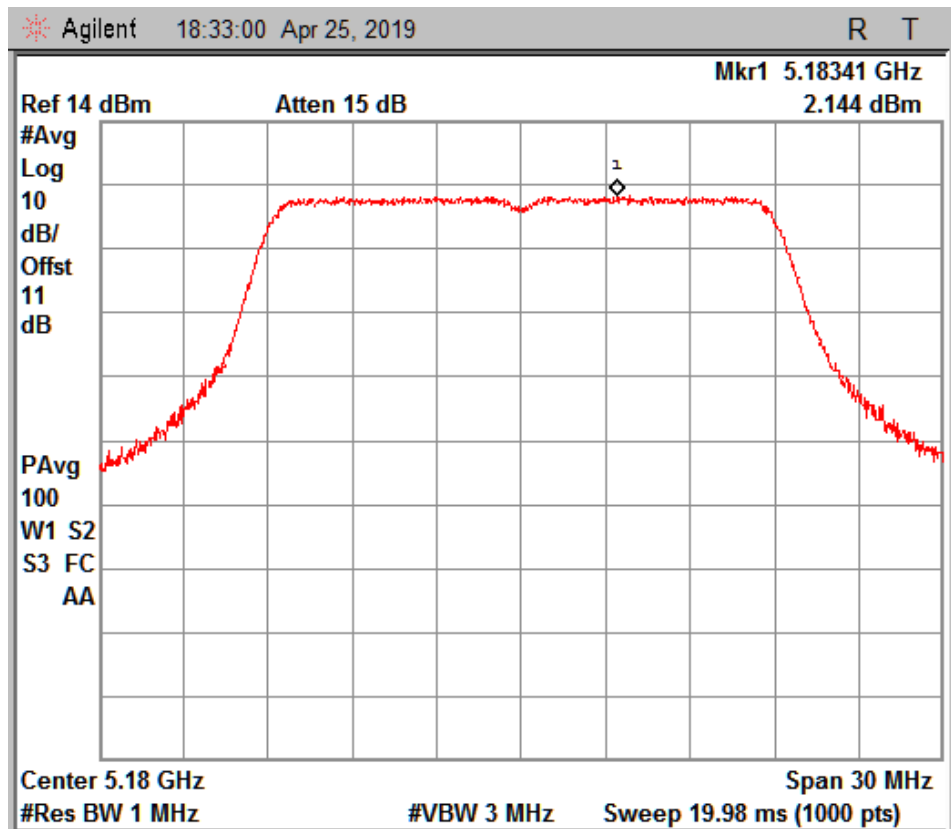
Modulation: 802.11n mode SISO_HT20

Data Rate(Mbps)	Frequency (MHz)	PSD (dBm)	Limit (dBm)
MCS0	5180	2.14	11
	5240	1.79	11
	5745	-4.08	11
	5825	-2.27	11
MCS4	5180	1.84	11
	5240	1.20	11
	5745	-2.89	11
	5825	-2.74	11
MCS7	5180	1.14	11
	5240	1.13	11
	5745	-3.21	11
	5825	-3.16	11

Prüfbericht - Nr.:
Test Report No.:

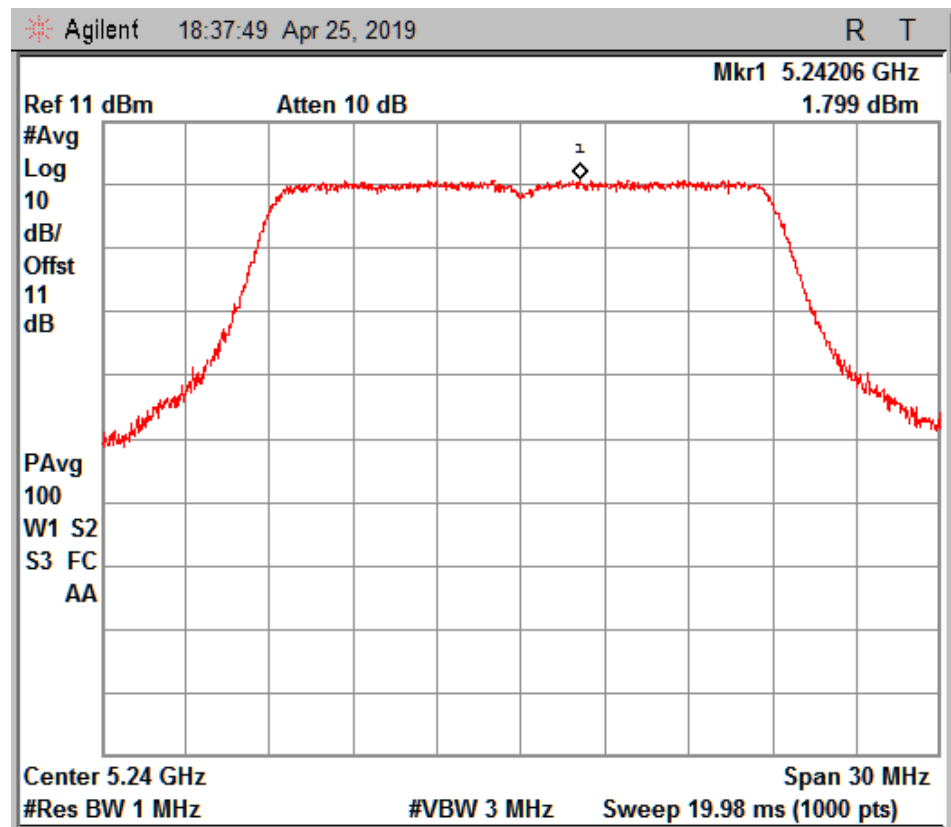
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.180 GHz



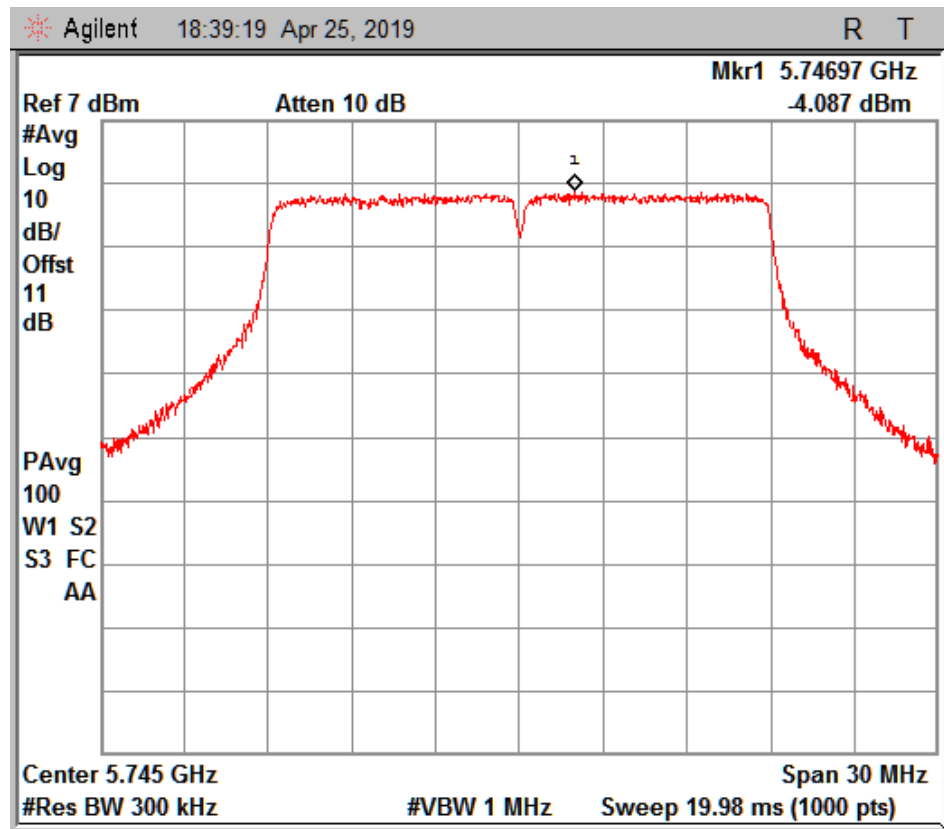
Data rate: MCS0

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

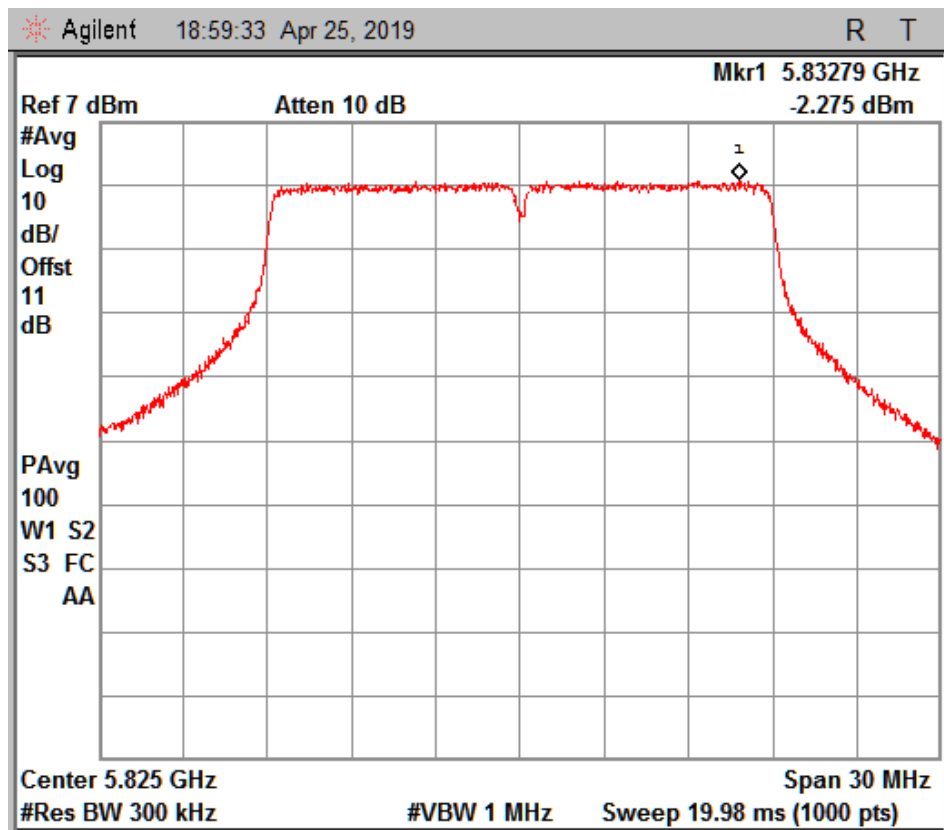
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.745 GHz



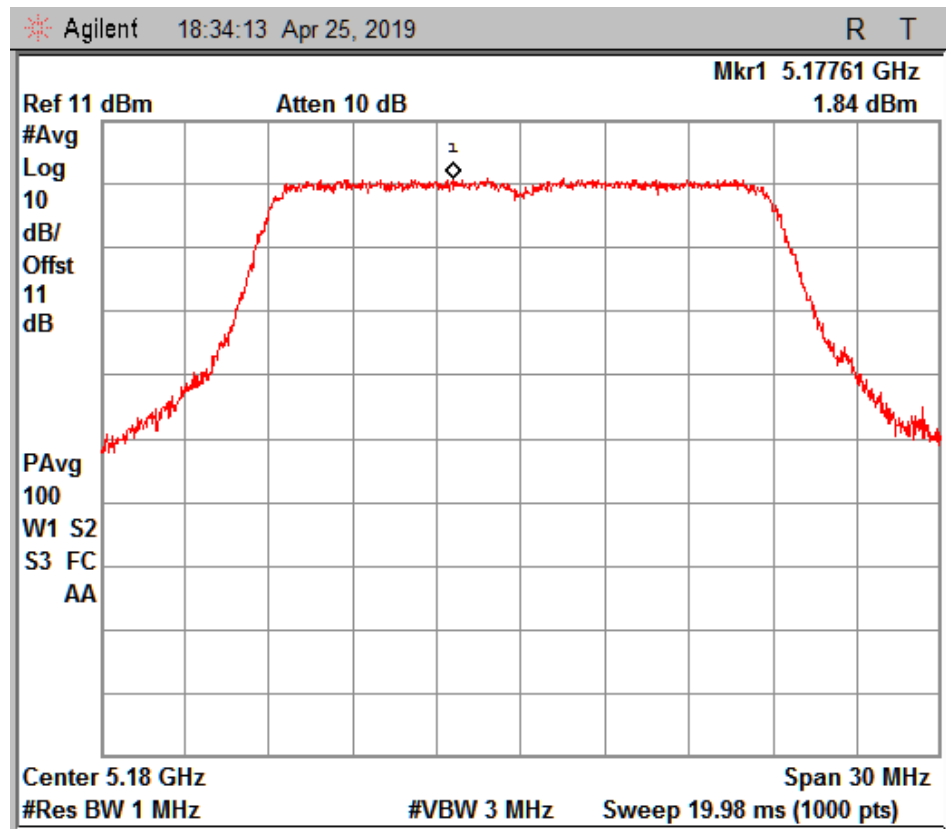
Data rate: MCS0

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

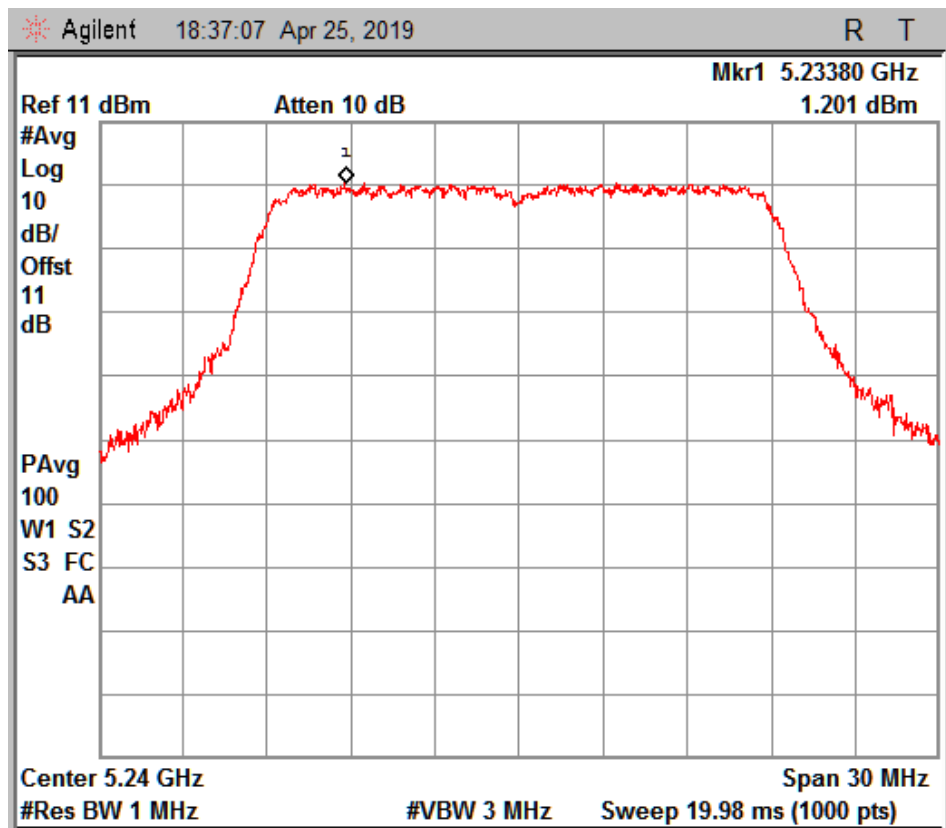
ULR-TC568819300000023F 001

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Data rate: MCS4

Channel Frequency : 5.180 GHz



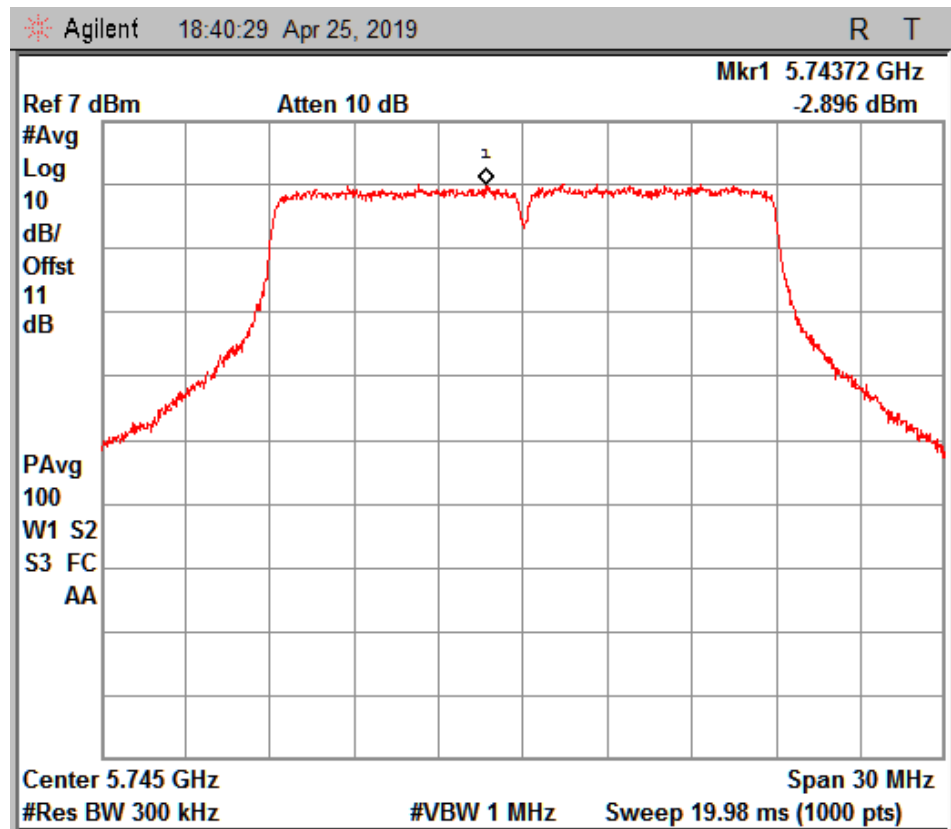
Data rate: MCS4

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

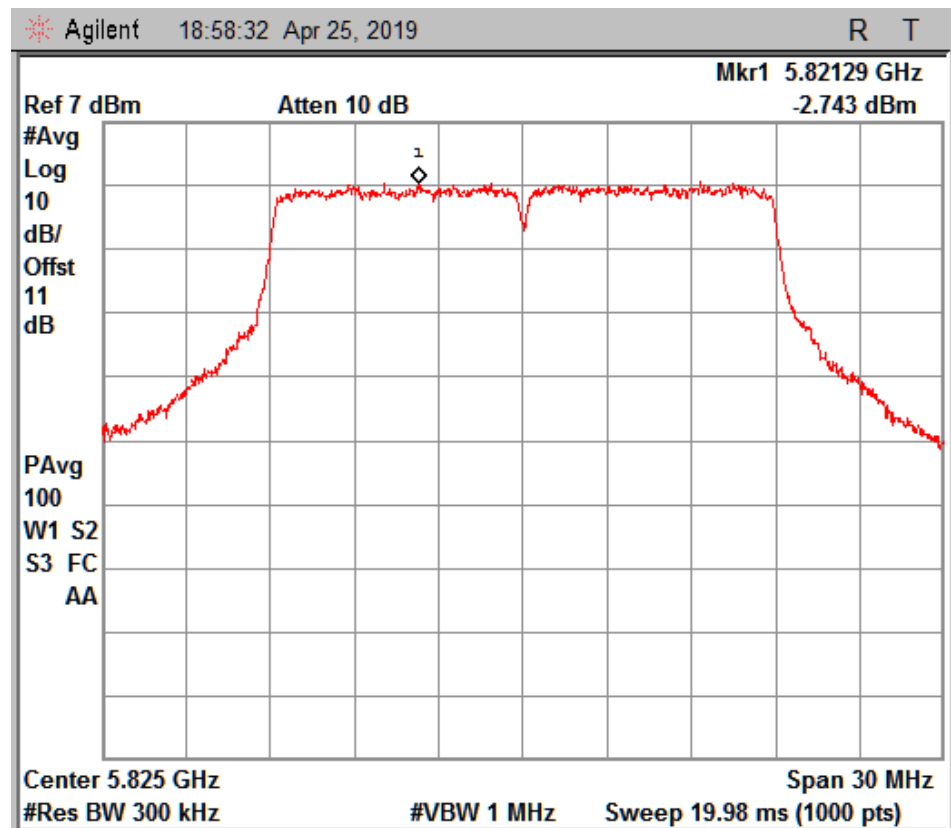
ULR-TC568819300000023F 001

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Data rate: MCS4

Channel Frequency : 5.745 GHz



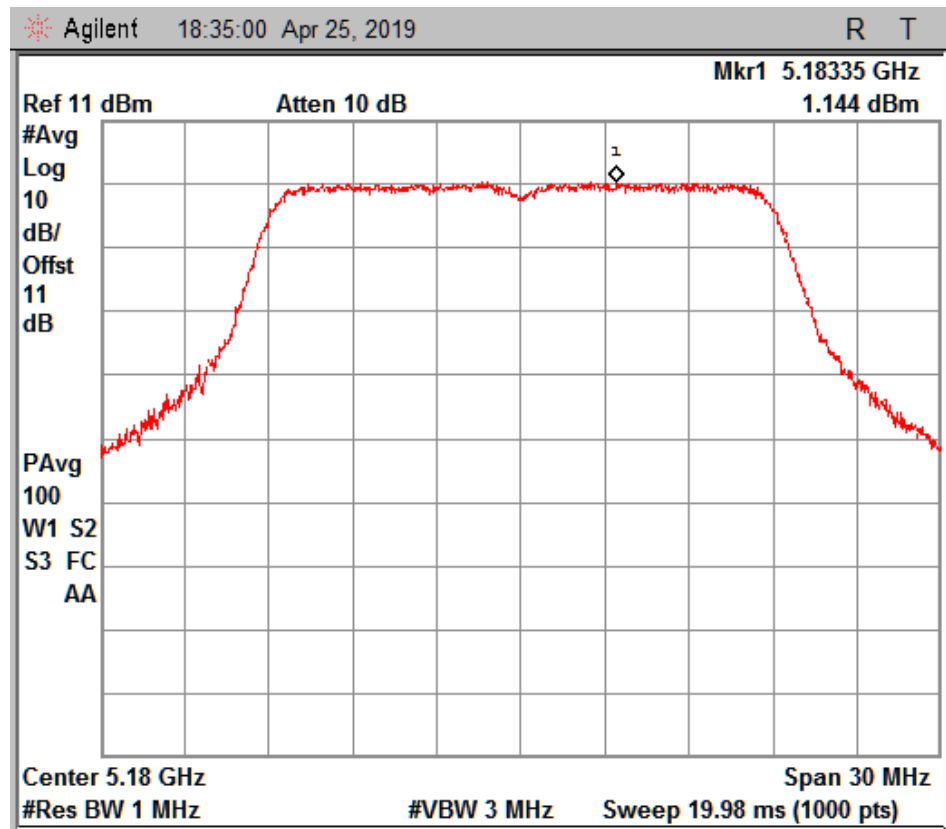
Data rate: MCS4

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

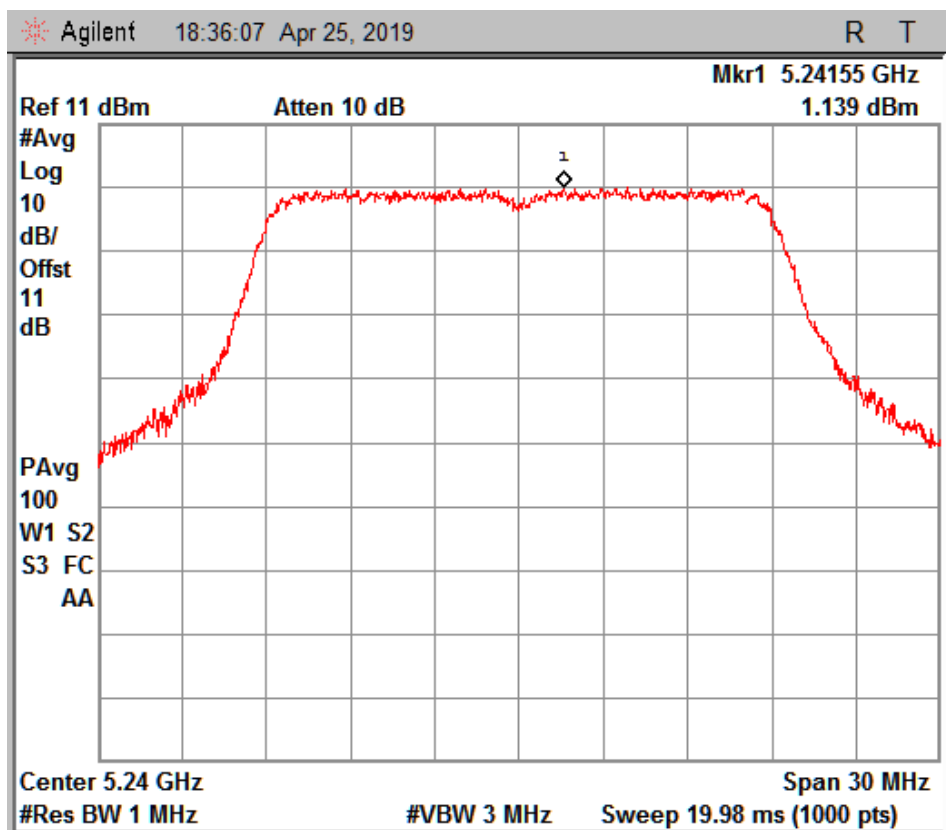
ULR-TC568819300000023F 001

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Data rate: MCS7

Channel Frequency : 5.180 GHz



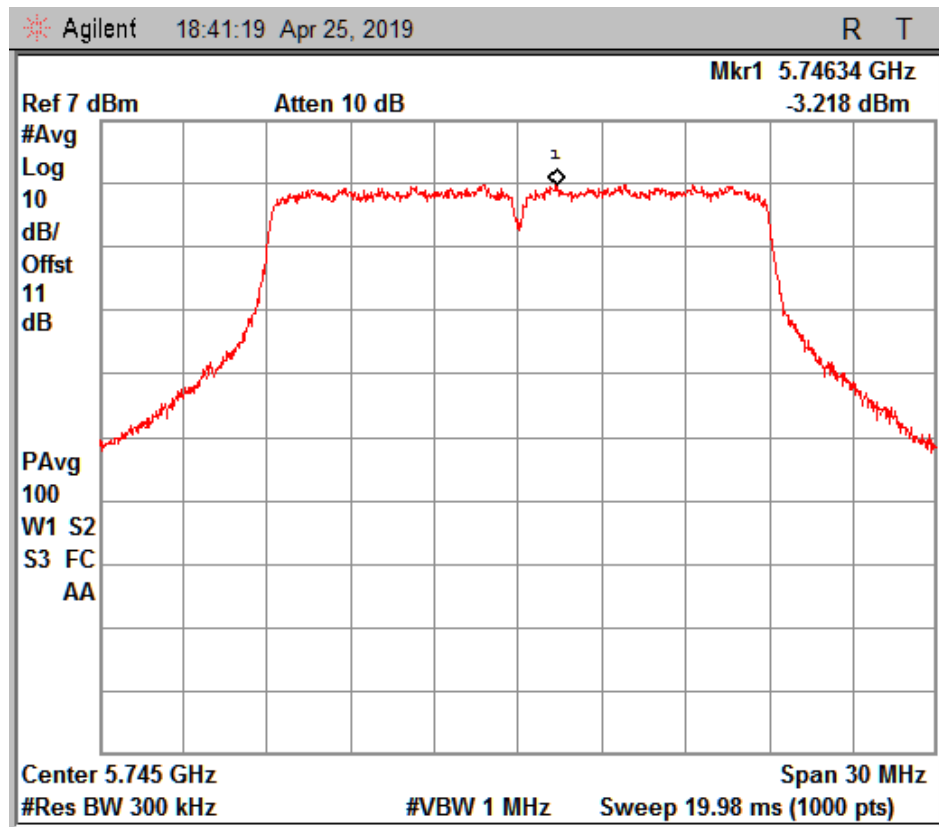
Data rate: MCS7

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

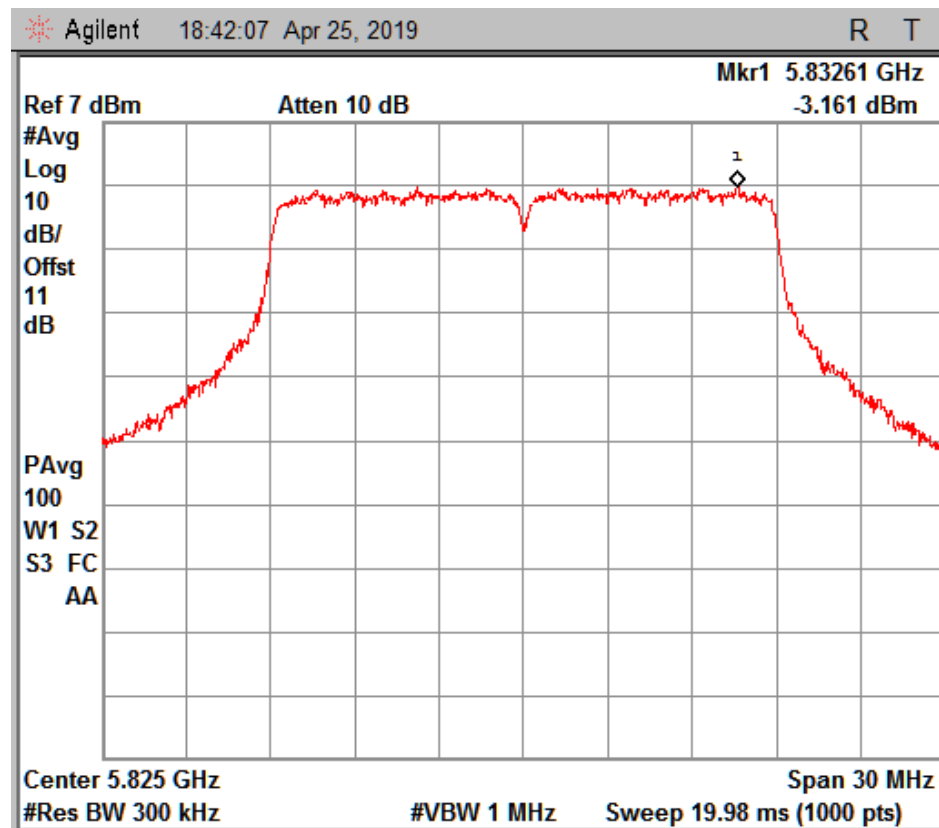
ULR-TC568819300000023F 001

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Data rate: MCS7

Channel Frequency : 5.745 GHz



Data rate: MCS7

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:

Test Report No.:

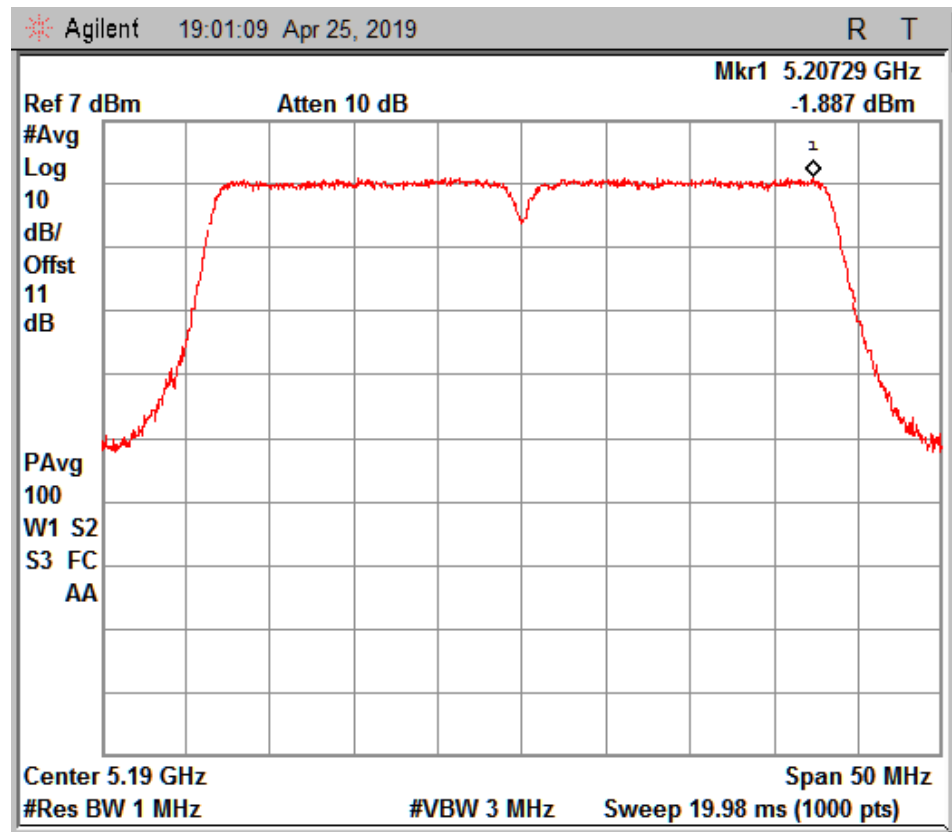
ULR-TC568819300000023F 001

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Modulation: 802.11n mode SISO_HT40

Data Rate (Mbps)	Frequency (MHz)	PSD (dBm)	Limit (dBm)
MCS0	5190	-1.88	11
	5230	-0.95	11
	5755	-5.76	11
	5795	-5.50	11
MCS4	5190	-1.47	11
	5230	-1.77	11
	5755	-6.67	11
	5795	-5.68	11
MCS7	5190	-1.83	11
	5230	-2.93	11
	5755	-6.01	11
	5795	-6.37	11



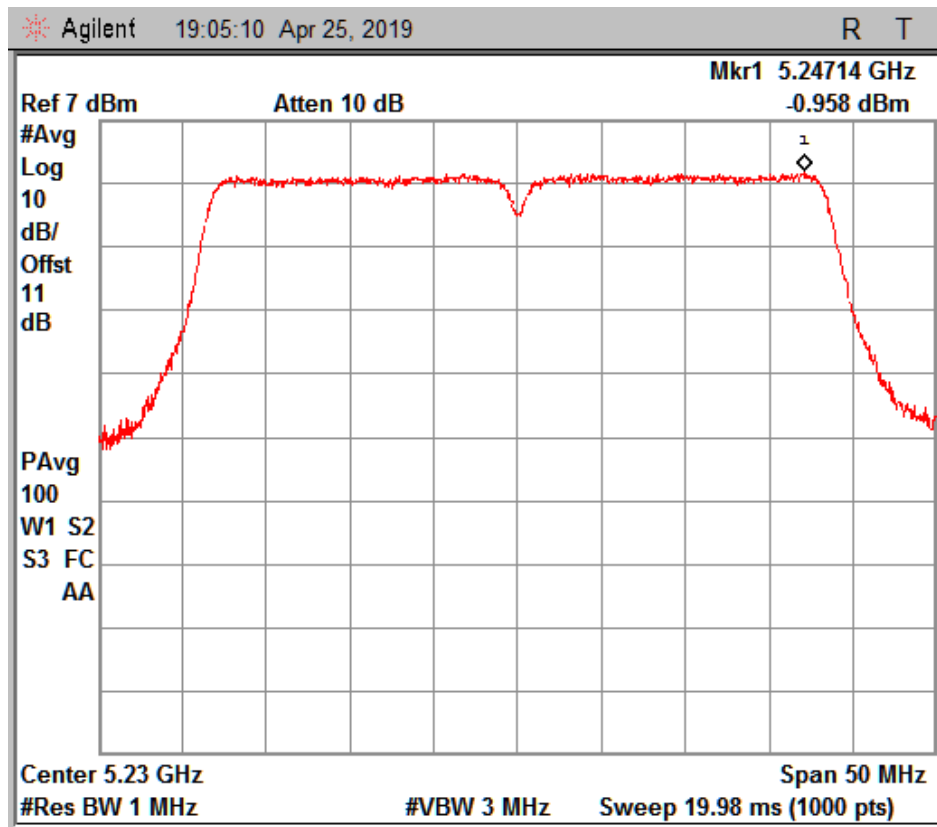
Data rate: MCS0

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

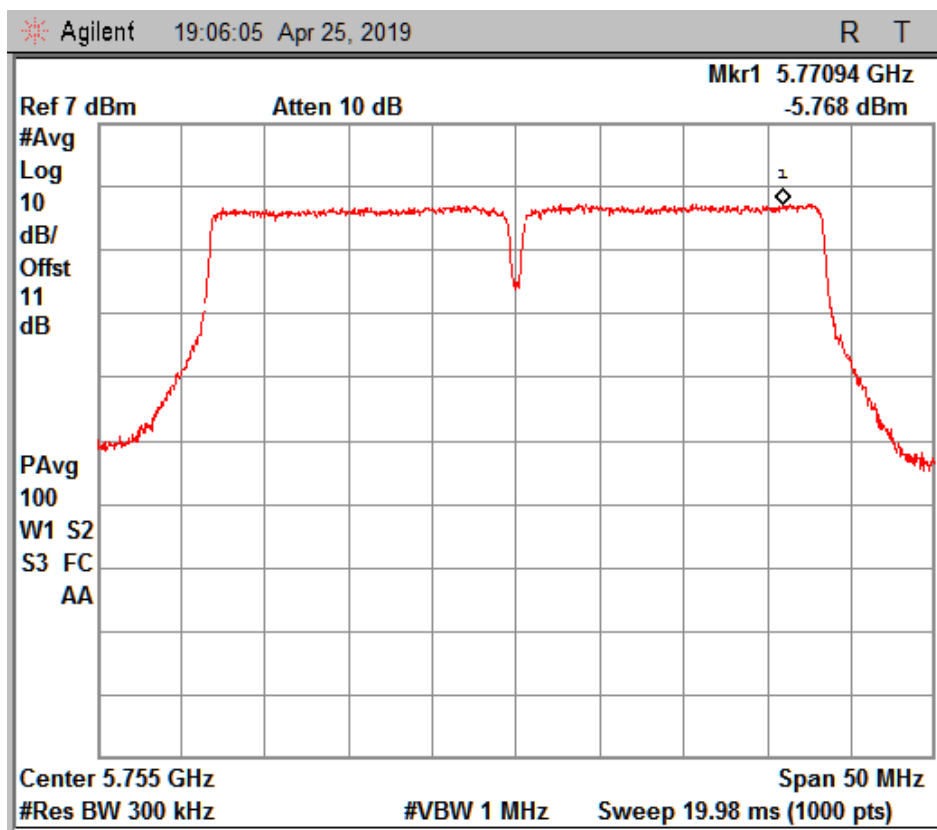
ULR-TC568819300000023F 001

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Data rate: MCS0

Channel Frequency : 5.230 GHz



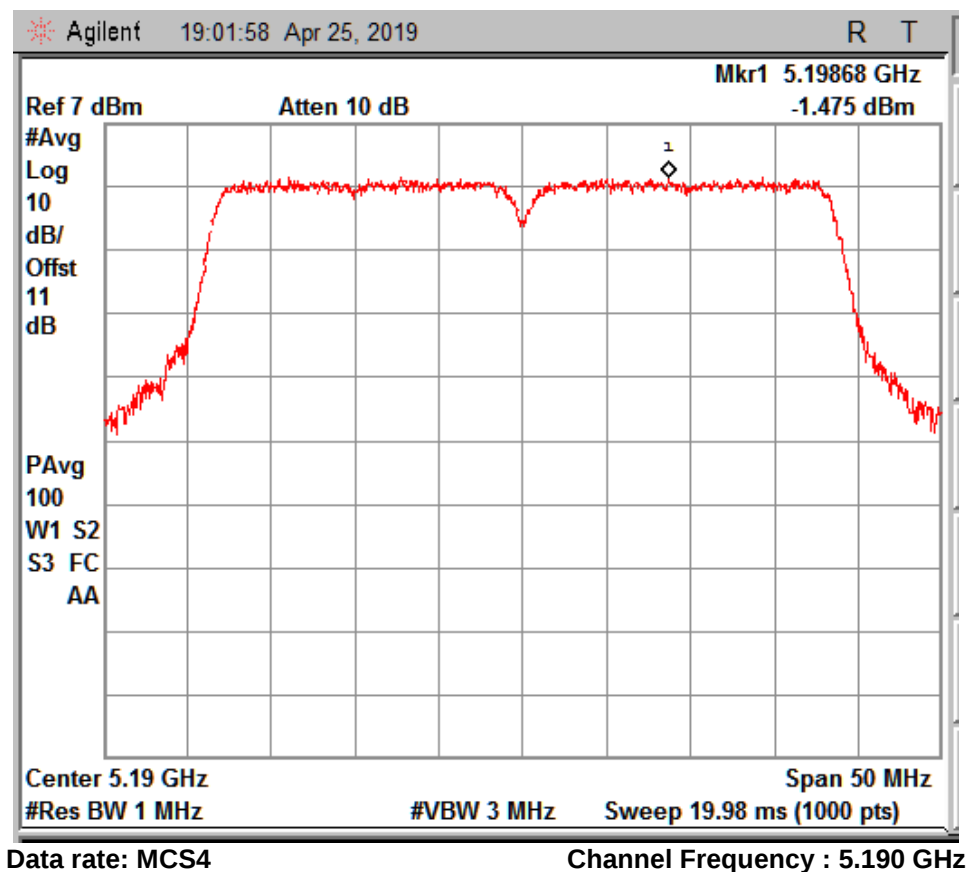
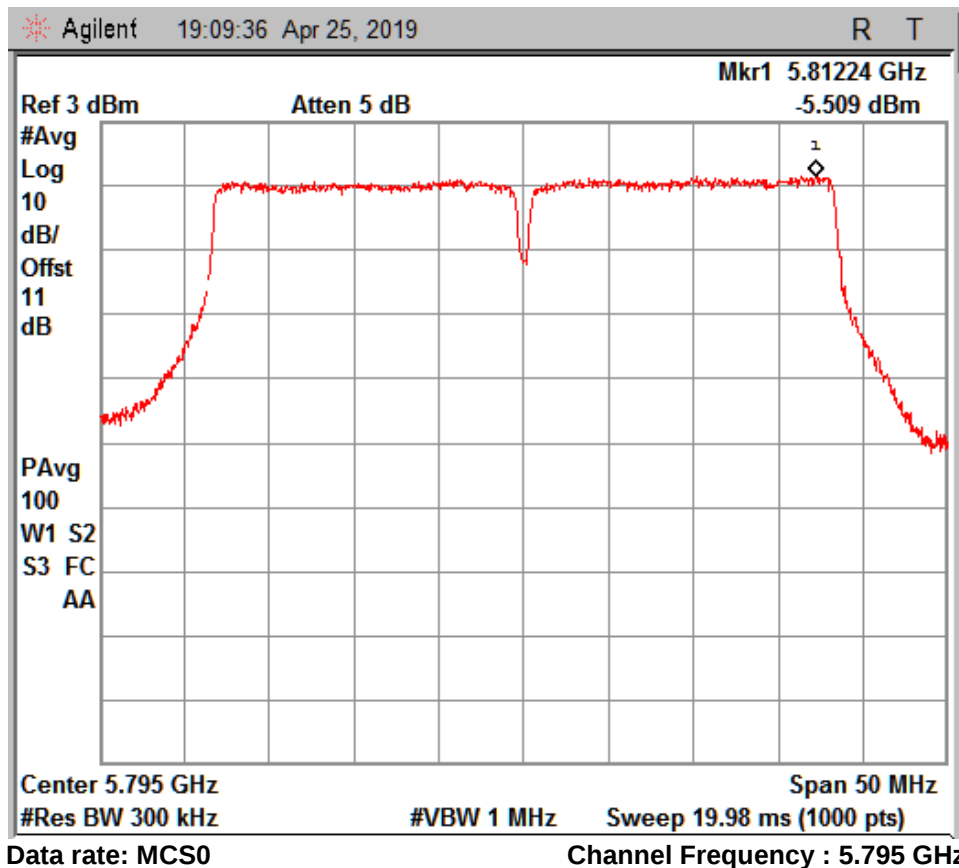
Data rate: MCS0

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

ULR-TC568819300000023F 001

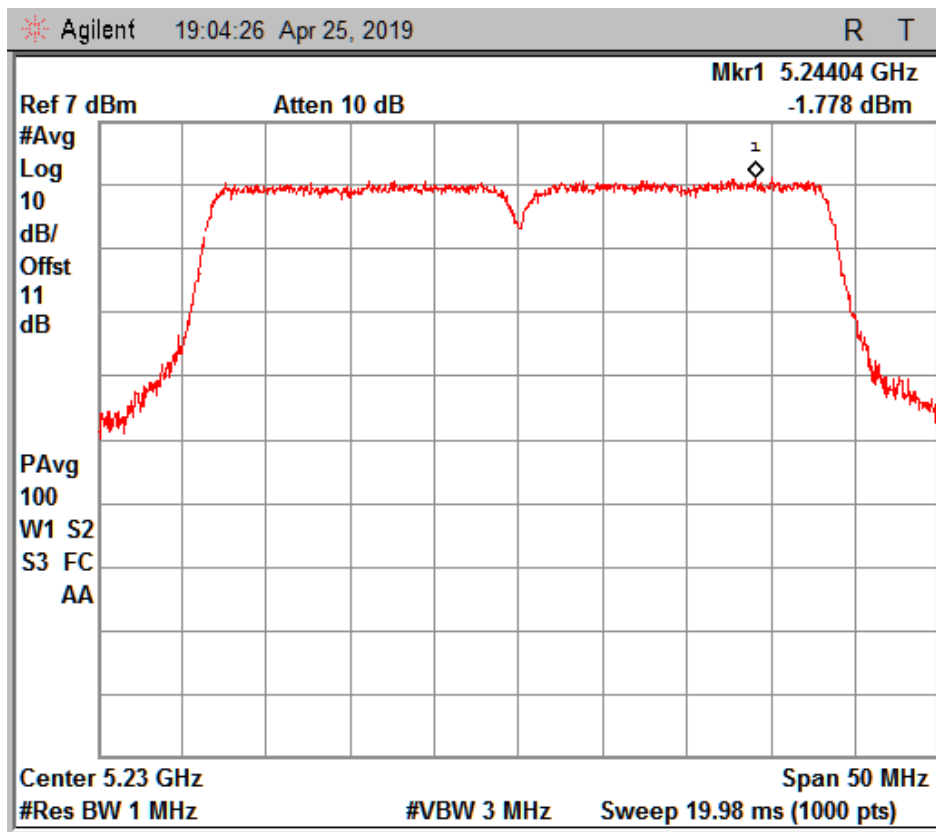
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Prüfbericht - Nr.:
Test Report No.:

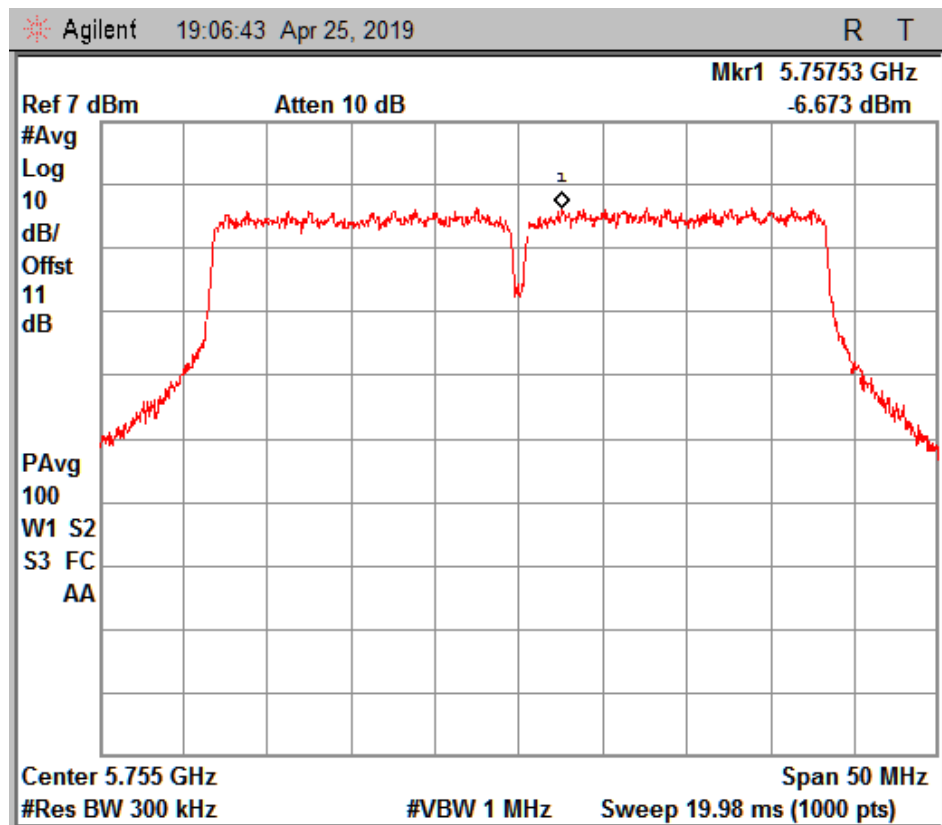
ULR-TC568819300000023F 001

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Data rate: MCS4

Channel Frequency : 5.230 GHz



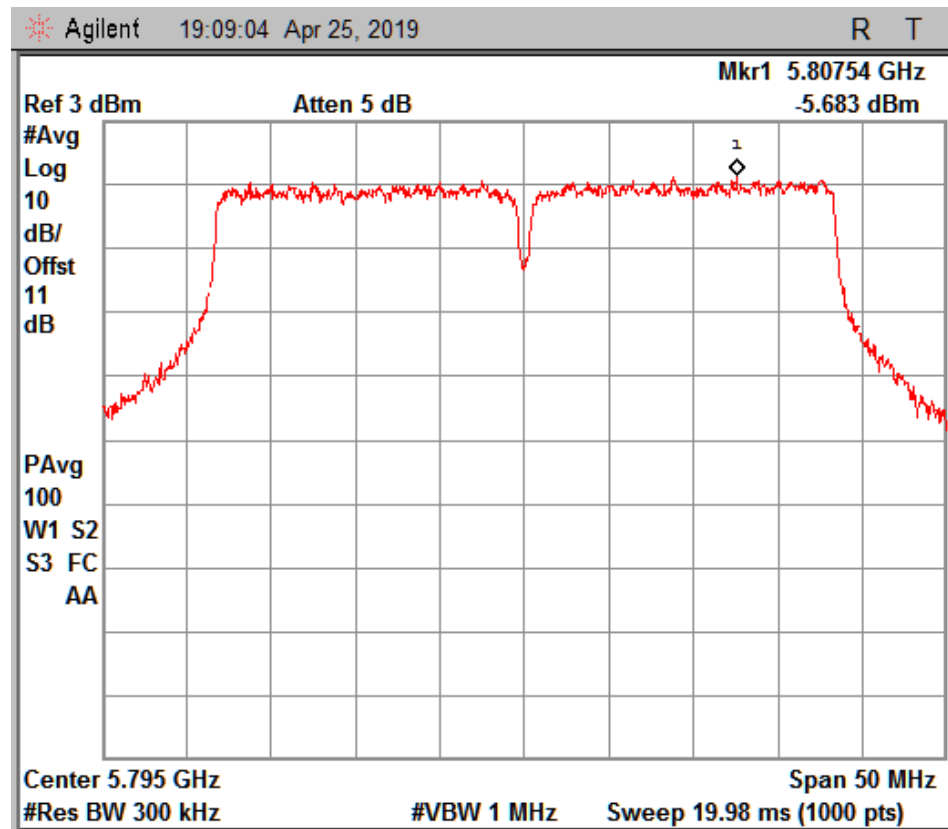
Data rate: MCS4

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

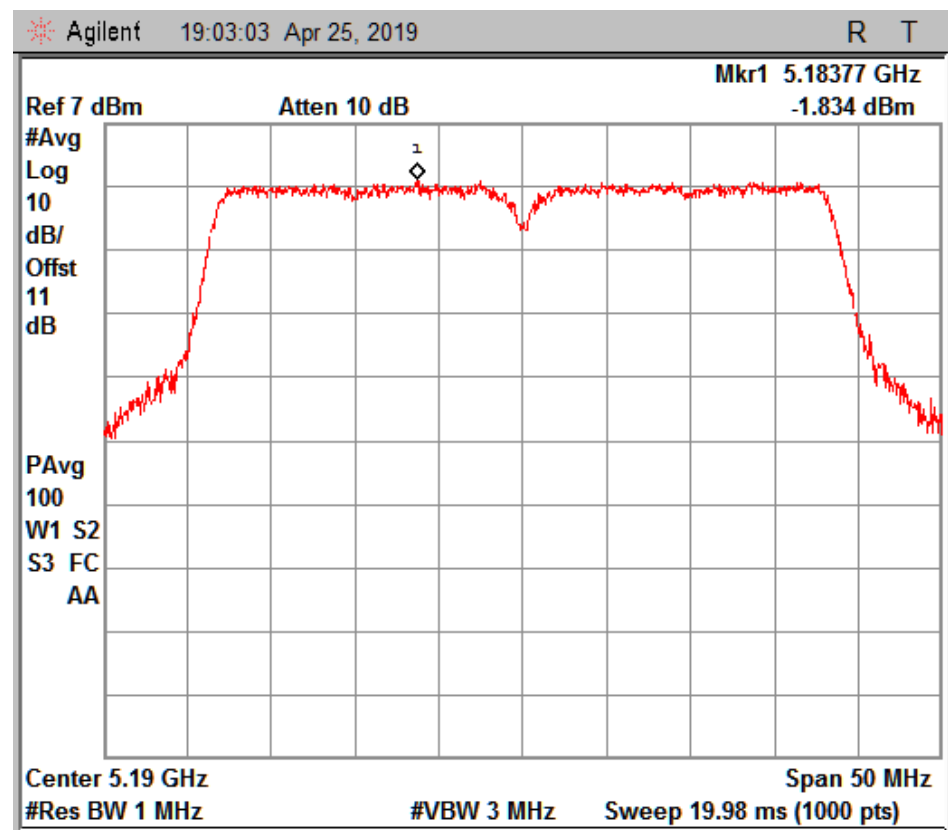
ULR-TC568819300000023F 001

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Data rate: MCS4

Channel Frequency : 5.795 GHz



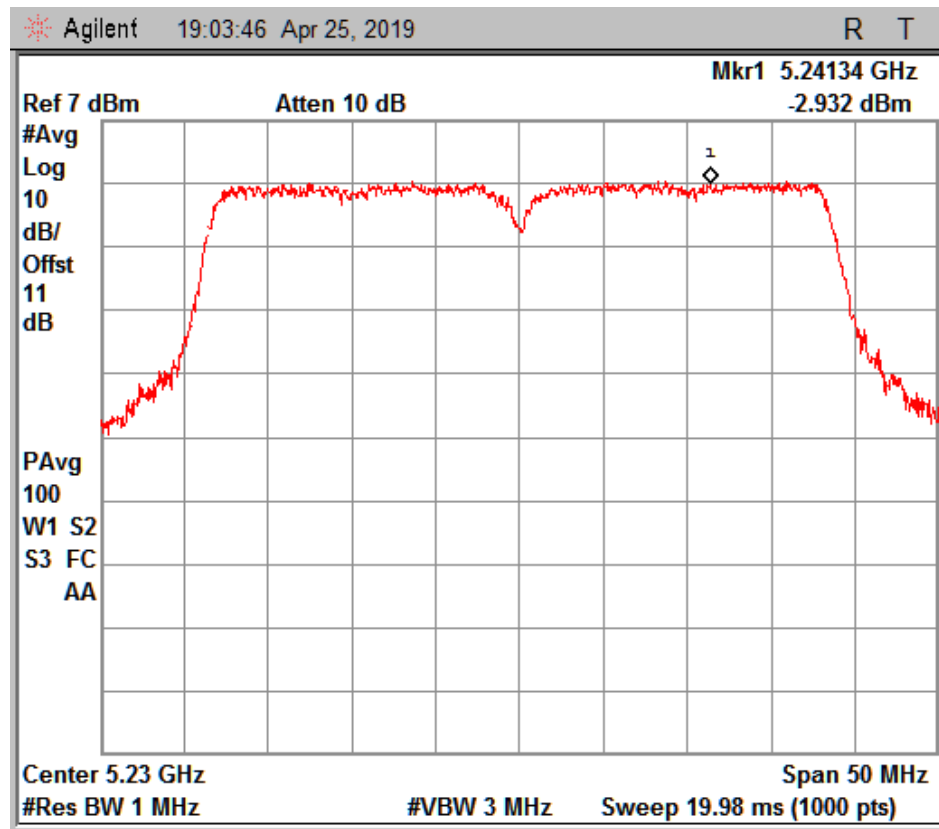
Data rate: MCS7

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

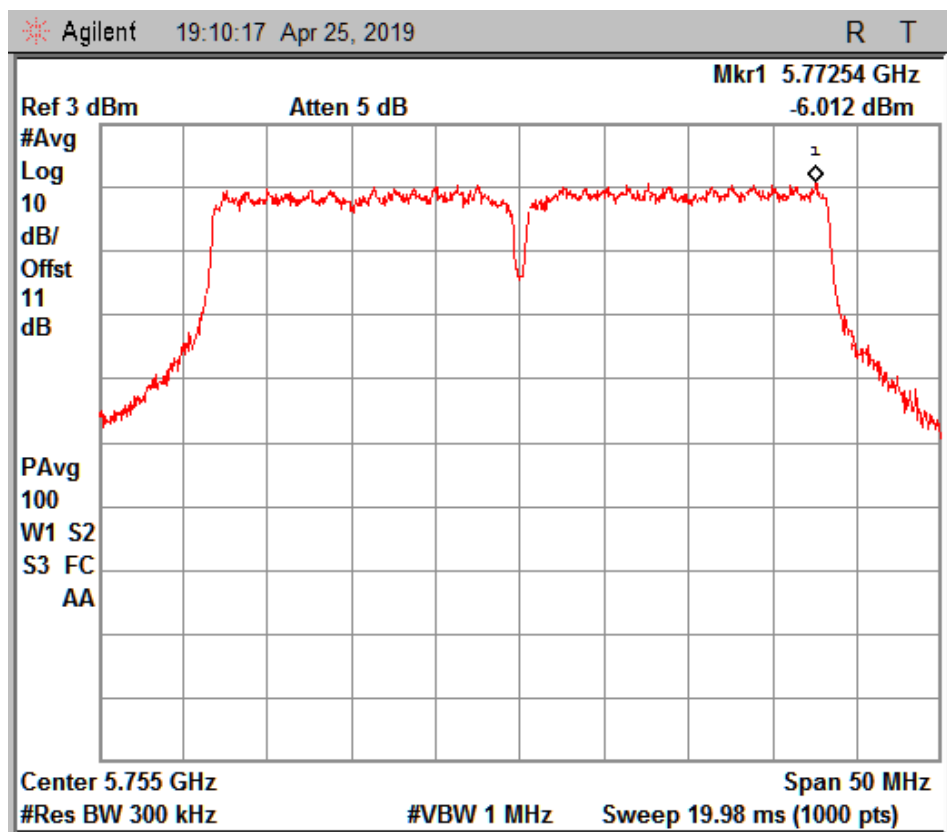
ULR-TC568819300000023F 001

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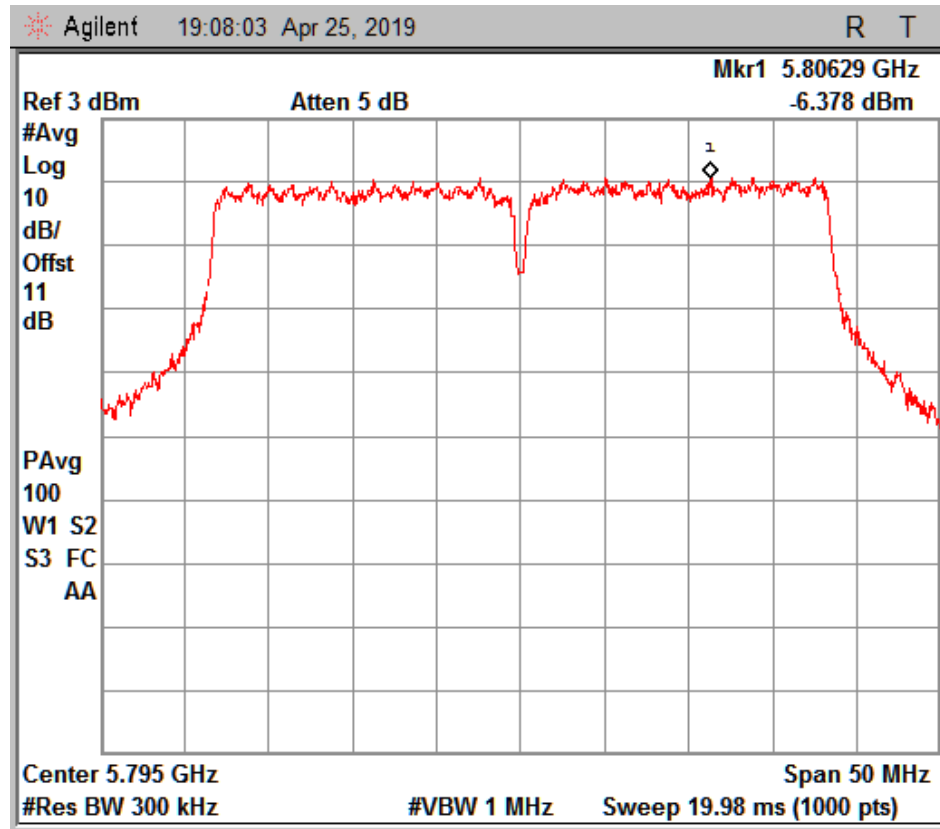
Data rate: MCS7

Channel Frequency : 5.230 GHz



Data rate: MCS7

Channel Frequency : 5.755 GHz



Data rate: MCS7

Channel Frequency : 5.795 GHz

Modulation: 802.11n mode MIMO_HT20

Data Rate (Mbps)	Frequency (MHz)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	Add 10log(Nant)	Total PSD for Chain 1 (dBm)	Total PSD for Chain 2 (dBm)	Limit (dBm)
MCS8	5180	2.05	3.52	3.01	5.06	6.53	11
	5240	1.91	2.75	3.01	4.92	5.76	11
	5745	-3.39	-1.47	3.01	-0.38	1.54	11
	5825	-3.21	-1.07	3.01	-0.20	1.94	11
MCS11	5180	1.99	3.37	3.01	5.00	6.38	11
	5240	1.67	2.44	3.01	4.68	5.45	11
	5745	-3.24	-1.59	3.01	-0.23	1.42	11
	5825	-3.26	-1.72	3.01	-0.25	1.29	11
MCS15	5180	0.94	2.84	3.01	3.95	5.85	11
	5240	1.01	1.72	3.01	4.02	4.73	11
	5745	-3.87	-1.86	3.01	-0.86	1.15	11
	5825	-2.56	-0.26	3.01	0.45	2.75	11

Prüfbericht - Nr.:

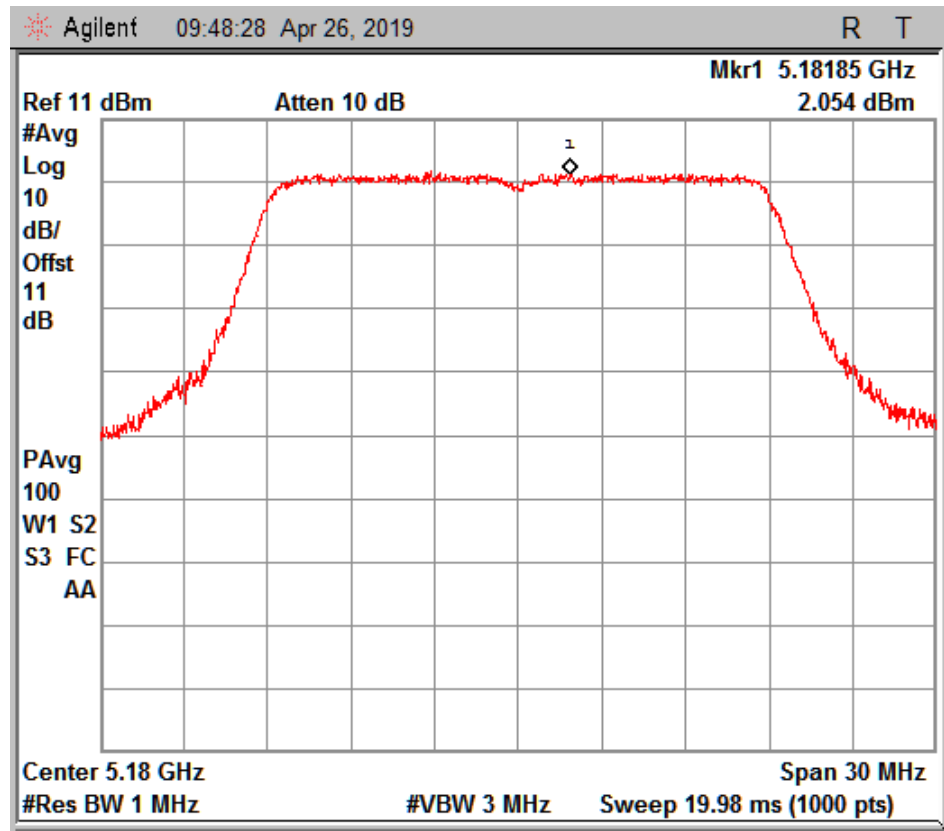
Test Report No.:

ULR-TC568819300000023F 001

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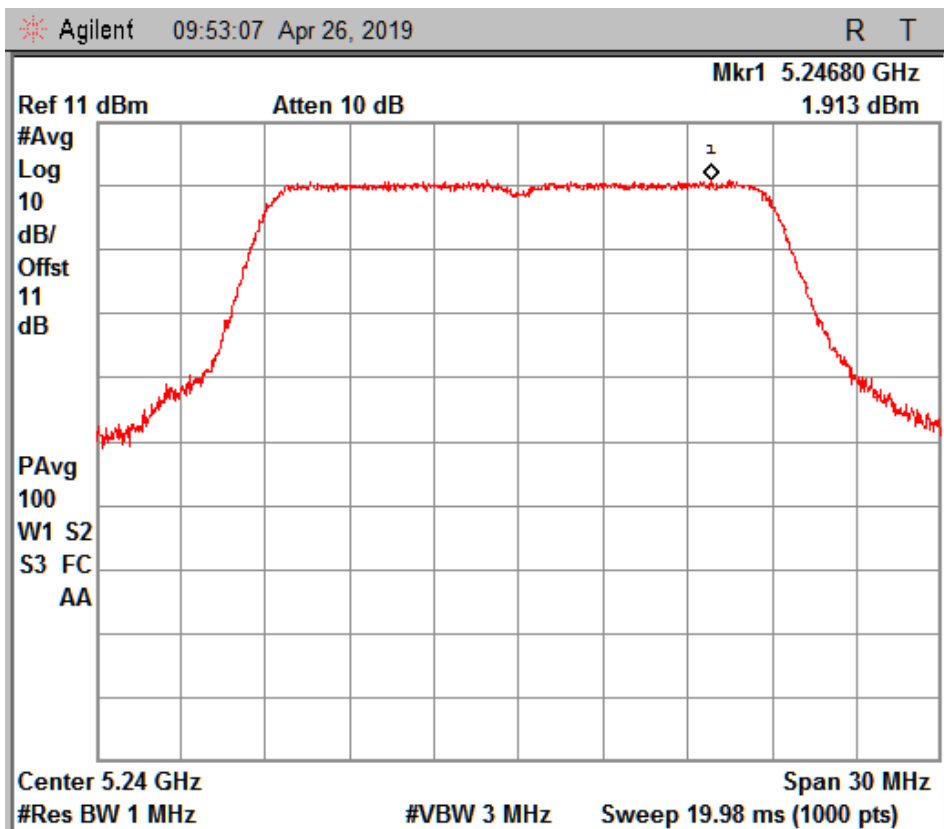
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Chain 1



Data rate: MCS8

Channel Frequency : 5.180 GHz



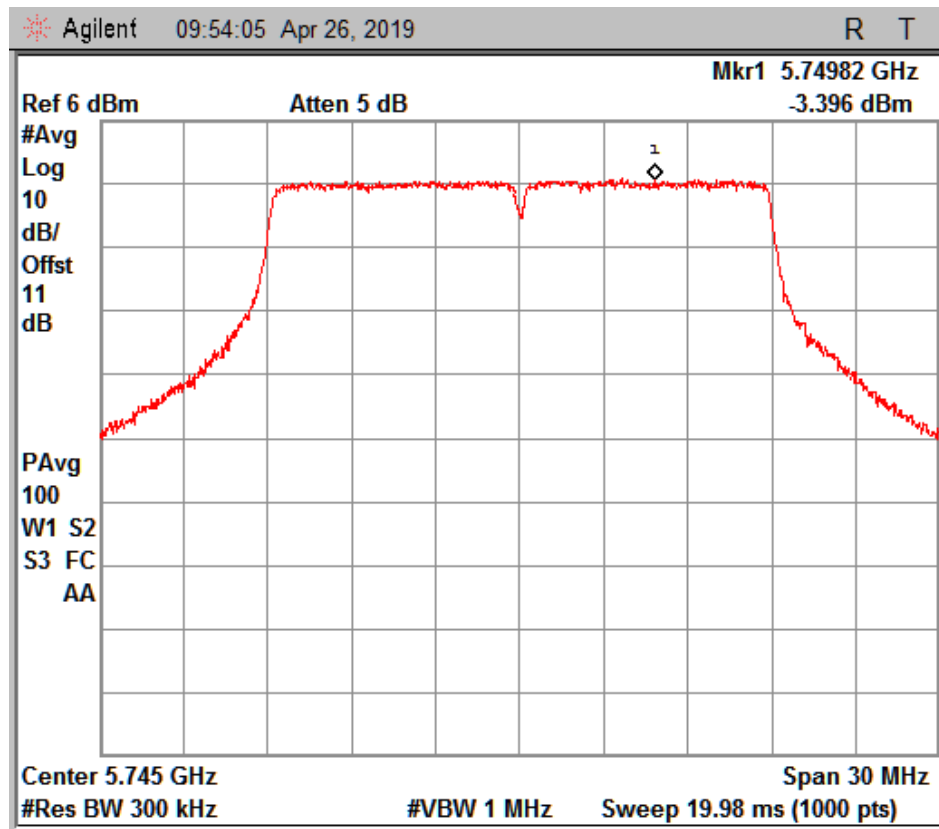
Data rate: MCS8

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

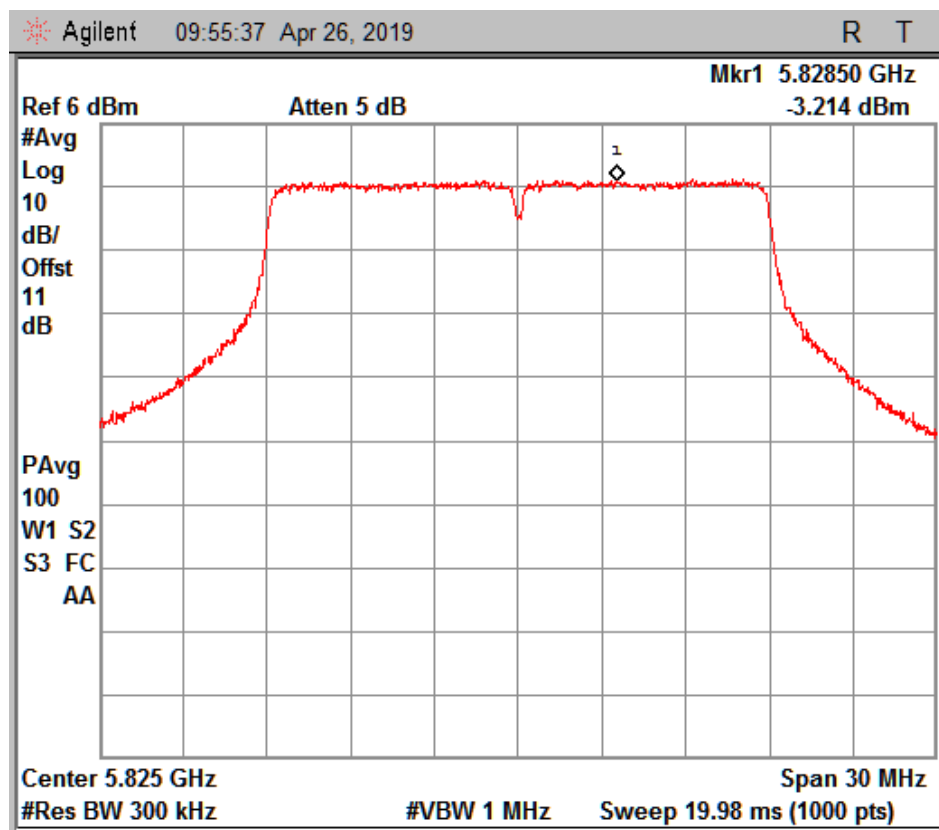
ULR-TC568819300000023F 001

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Data rate: MCS8

Channel Frequency : 5.745 GHz



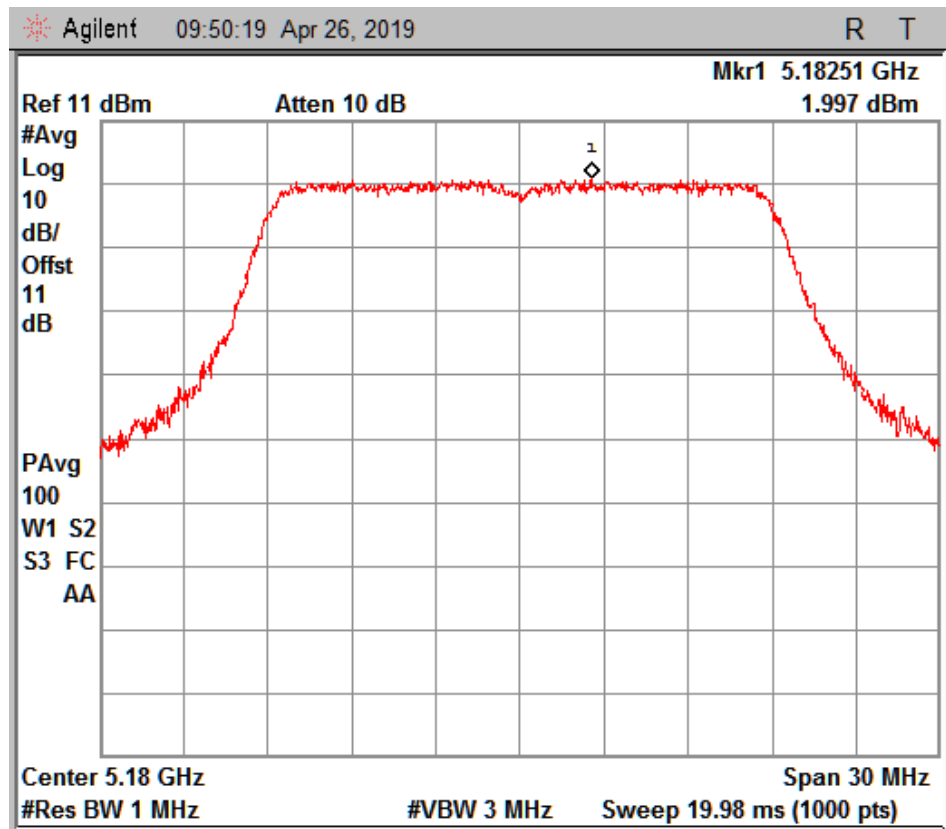
Data rate: MCS8

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

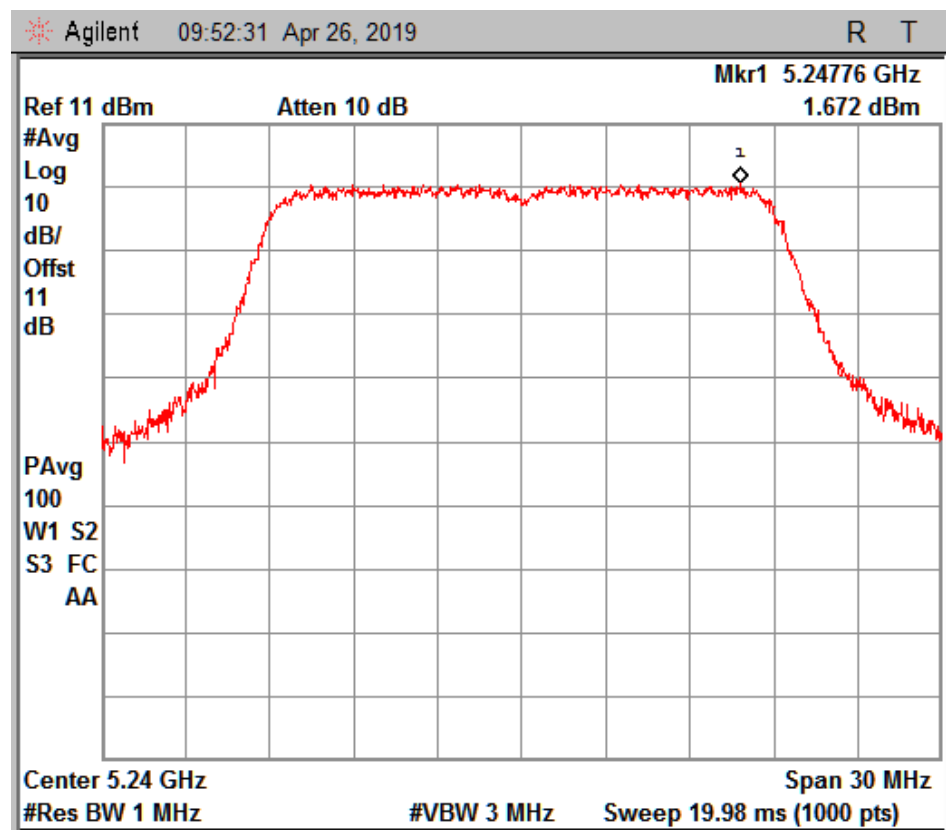
ULR-TC568819300000023F 001

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Data rate: MCS11

Channel Frequency : 5.180 GHz



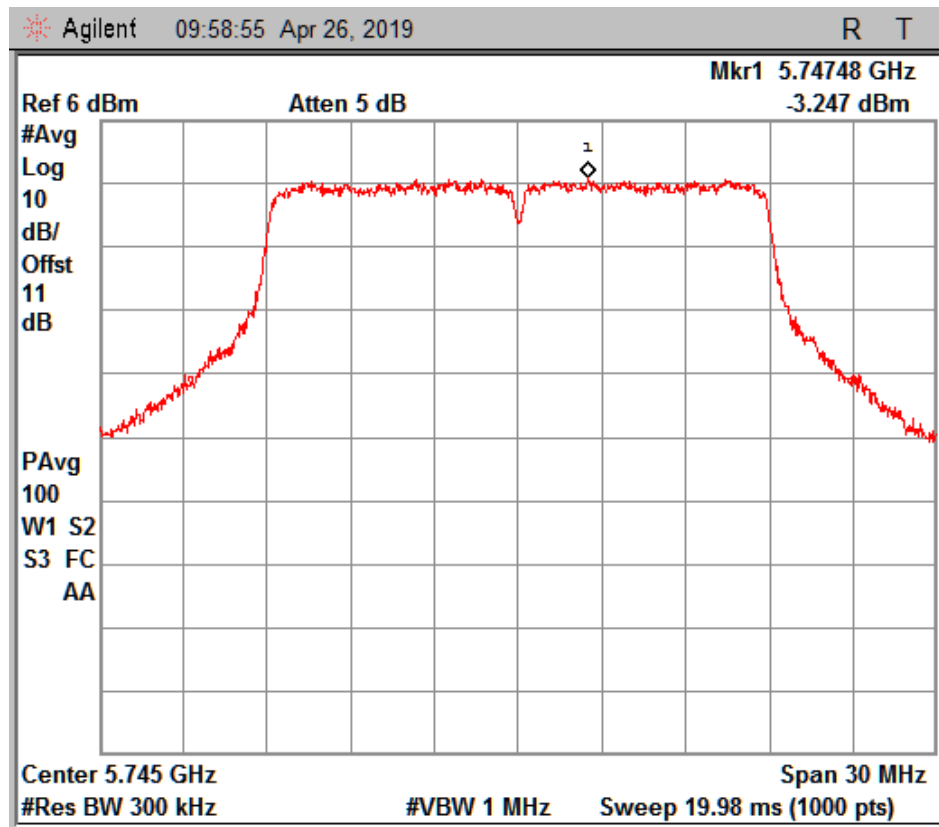
Data rate: MCS11

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

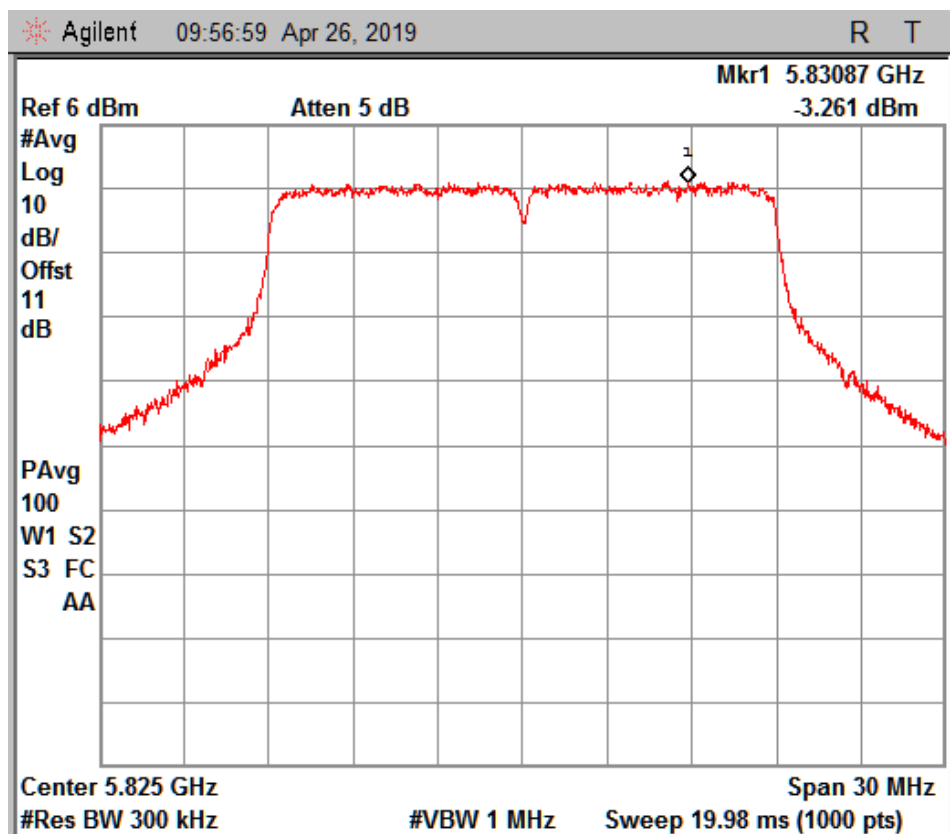
ULR-TC568819300000023F 001

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Data rate: MCS11

Channel Frequency : 5.745 GHz



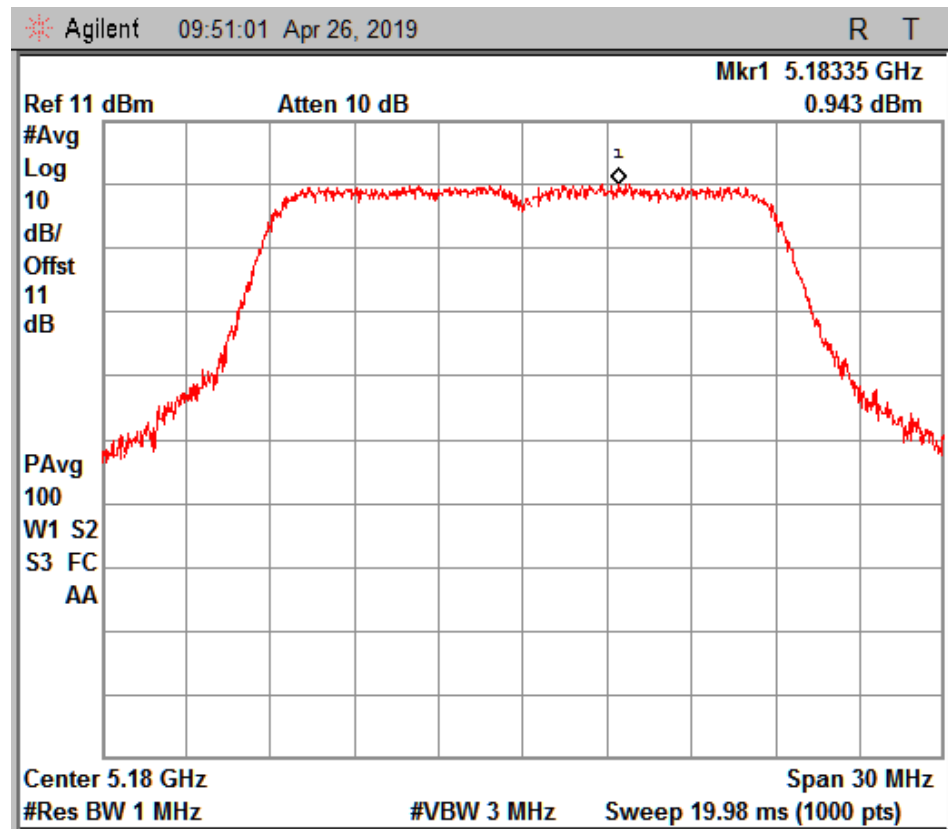
Data rate: MCS11

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

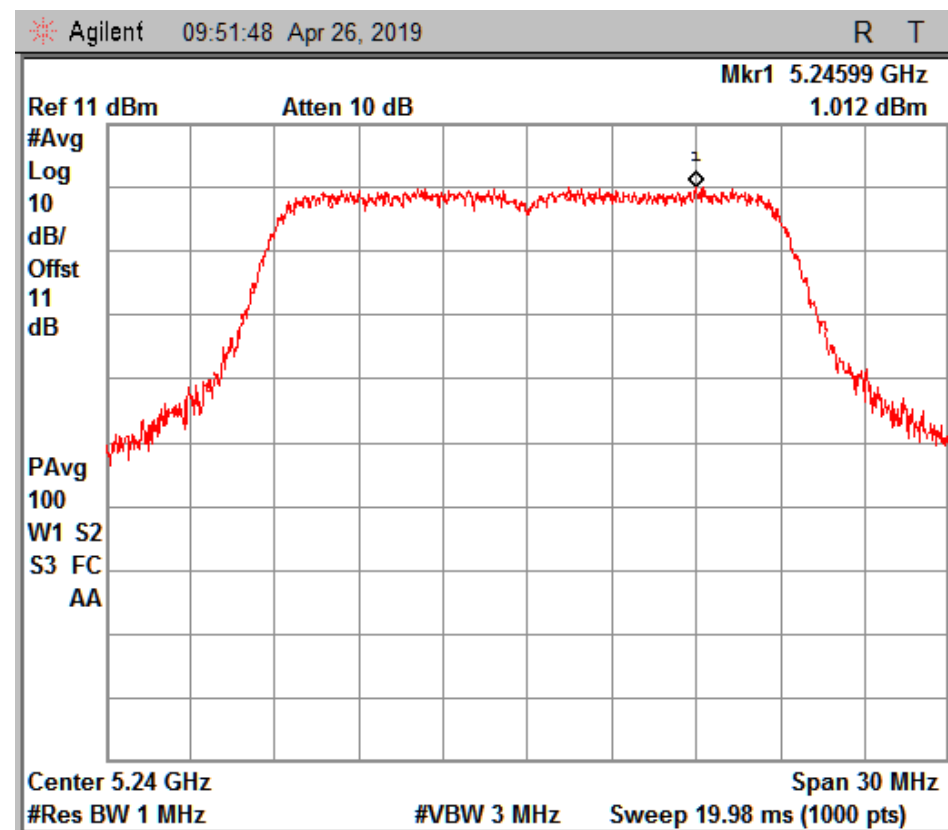
ULR-TC568819300000023F 001

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Data rate: MCS15

Channel Frequency : 5.180 GHz



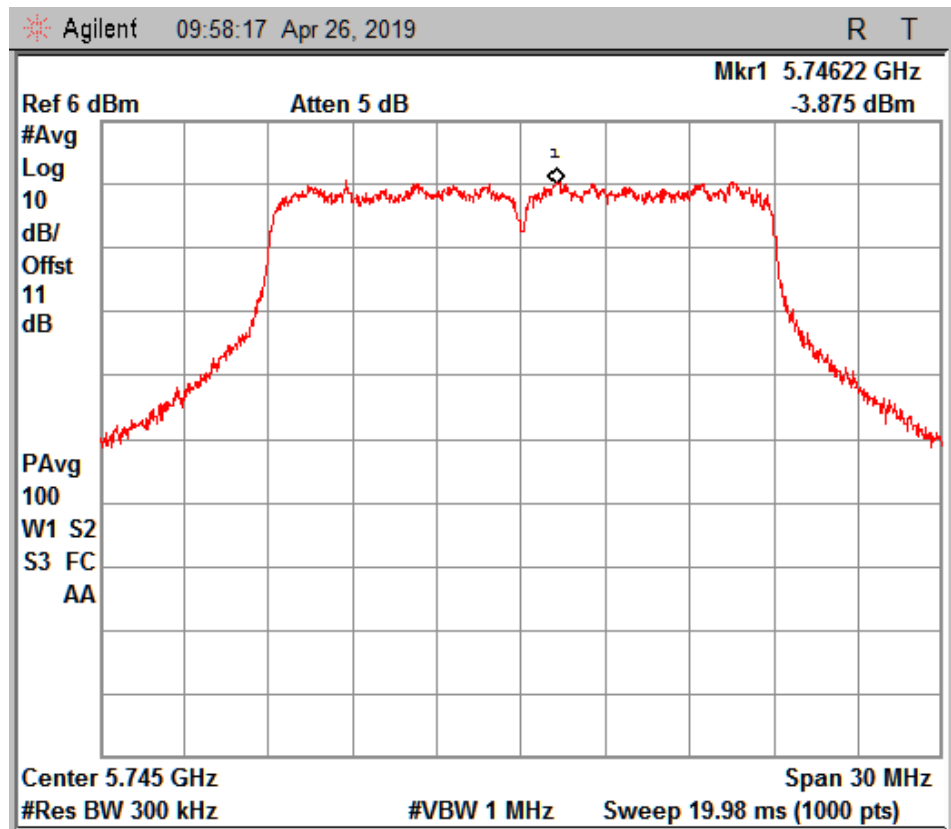
Data rate: MCS15

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

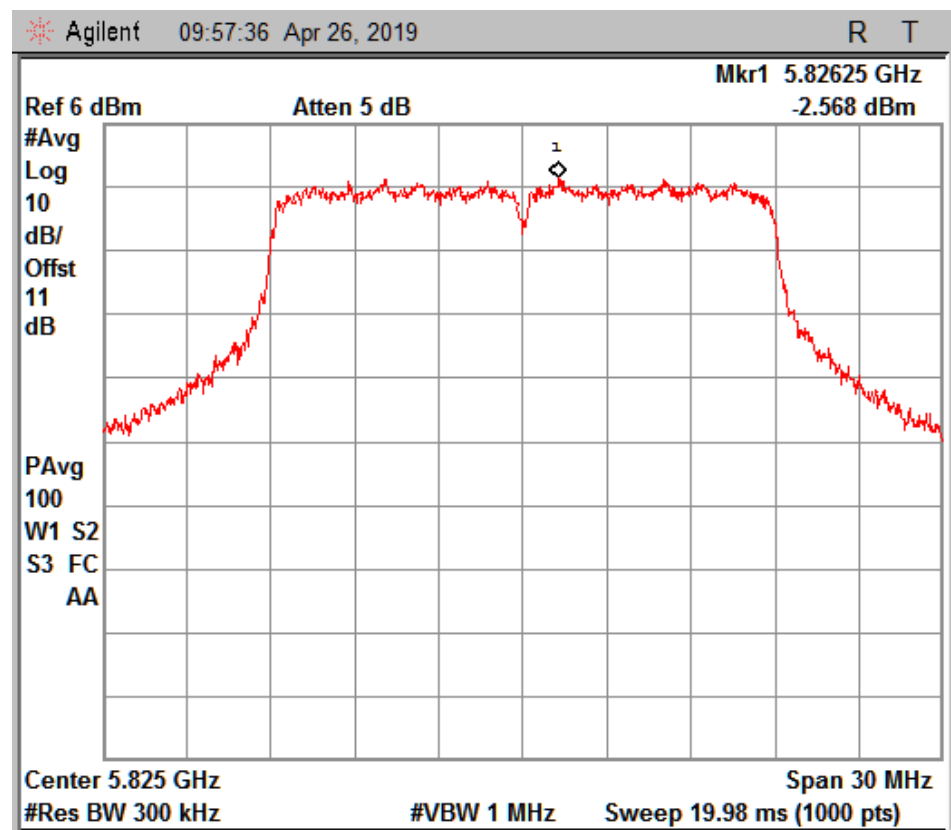
ULR-TC568819300000023F 001

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Data rate: MCS15

Channel Frequency : 5.745 GHz



Data rate: MCS15

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:

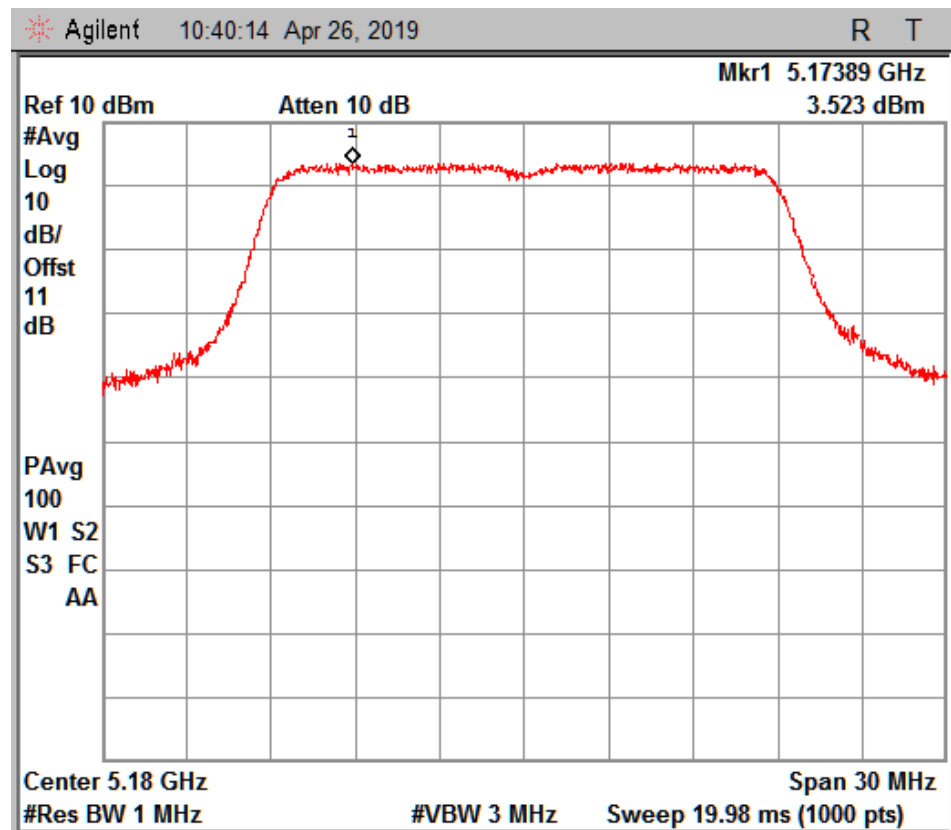
Test Report No.:

ULR-TC568819300000023F 001

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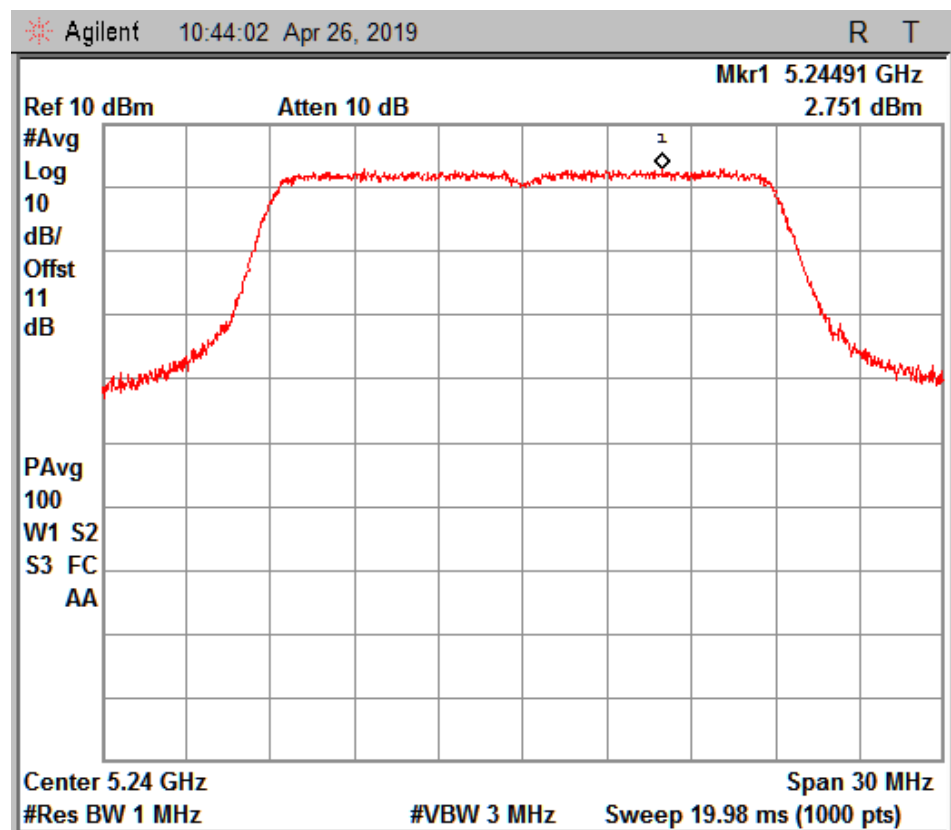
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Chain 2



Data rate: MCS8

Channel Frequency : 5.180 GHz



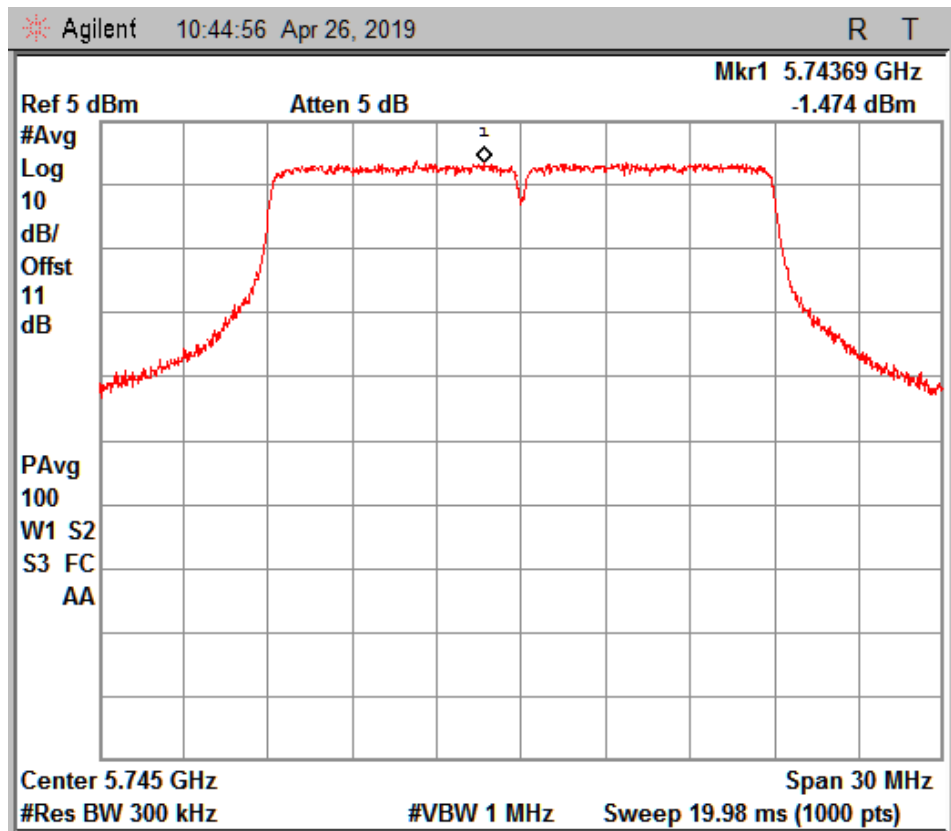
Data rate: MCS8

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

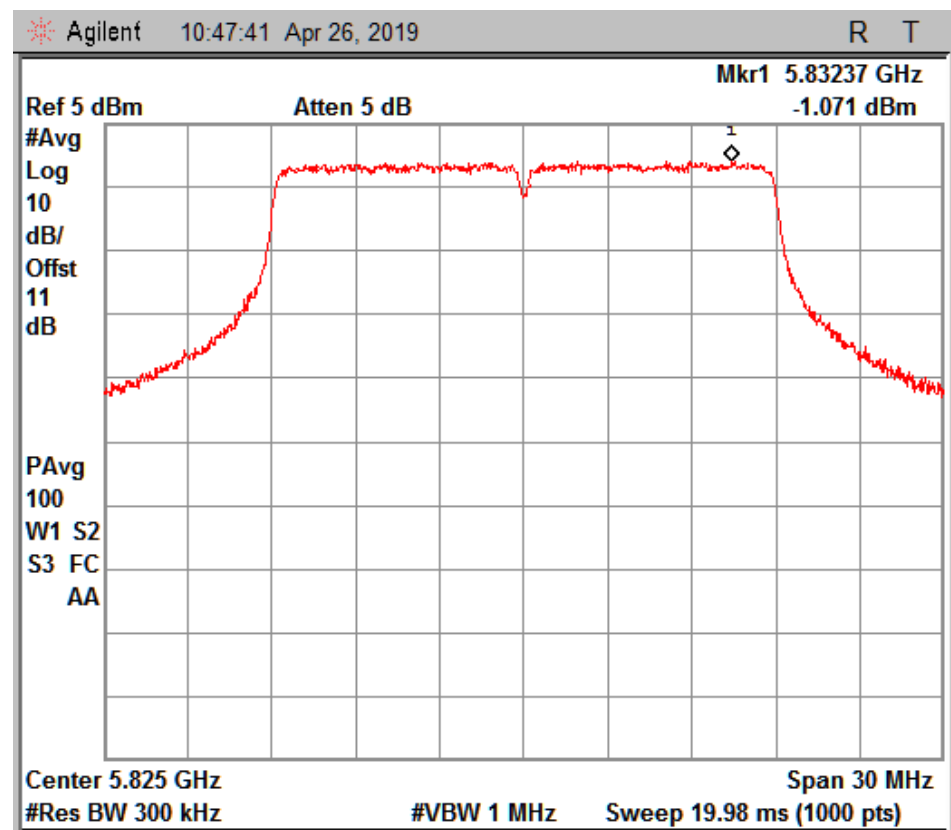
ULR-TC568819300000023F 001

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Data rate: MCS8

Channel Frequency : 5.745 GHz



Data rate: MCS8

Channel Frequency : 5.825 GHz

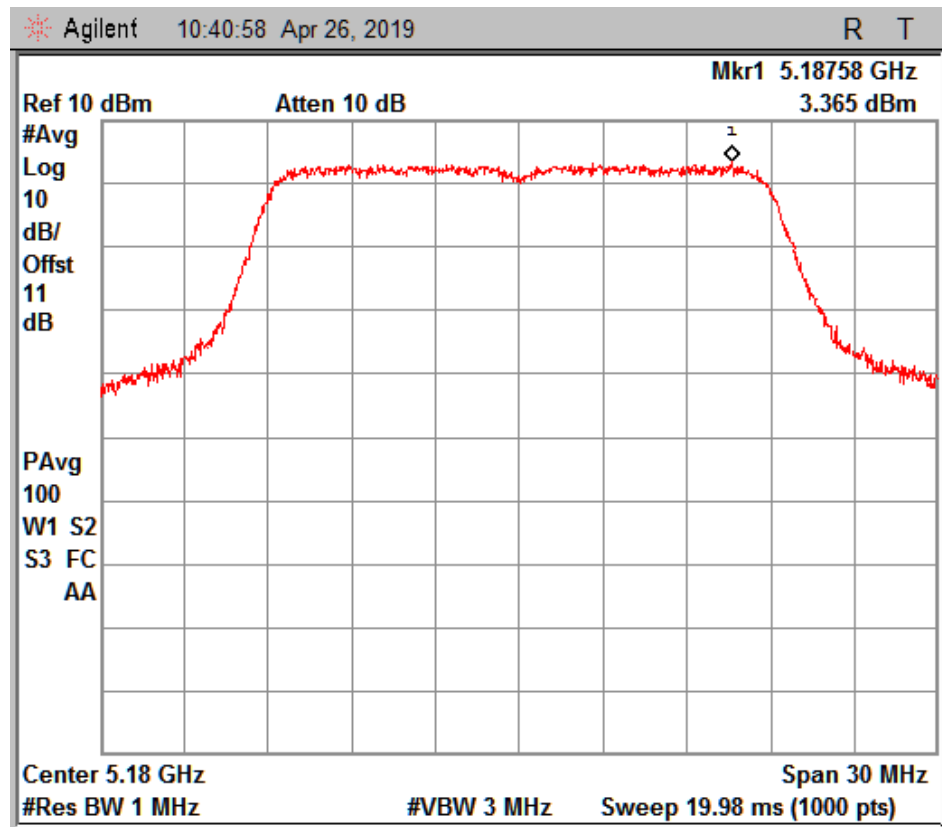
Prüfbericht - Nr.:

Test Report No.:

ULR-TC568819300000023F 001

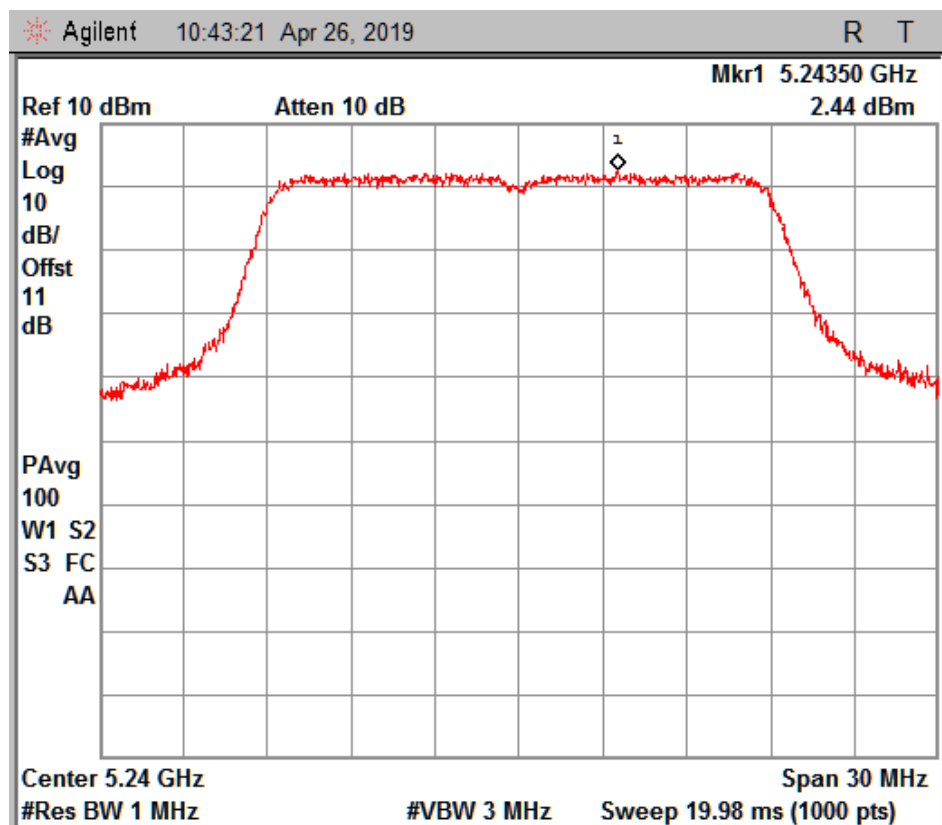
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Data rate: MCS11

Channel Frequency : 5.180 GHz



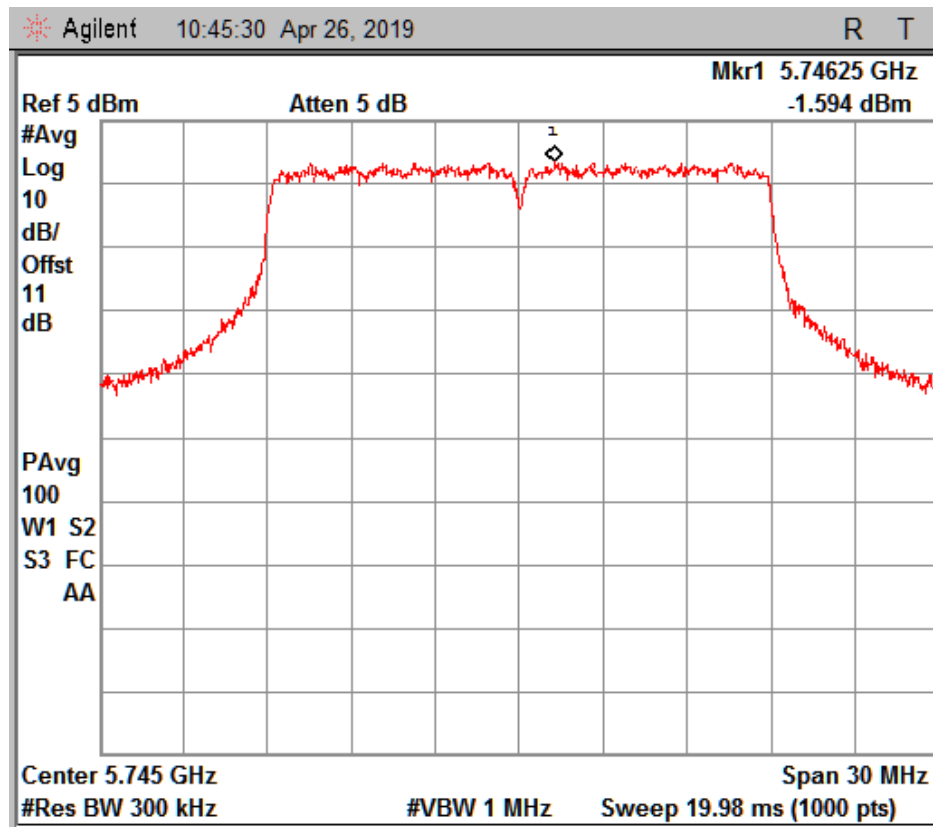
Data rate: MCS11

Channel Frequency : 5.240 GHz

Prüfbericht - Nr.:
Test Report No.:

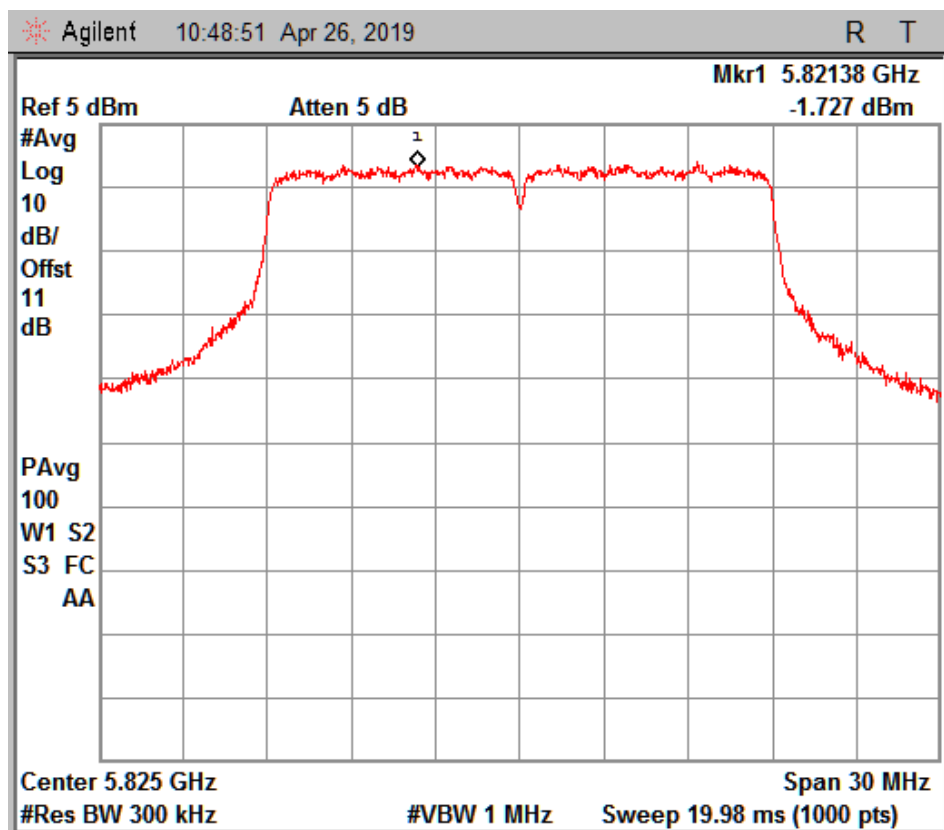
ULR-TC568819300000023F 001

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Data rate: MCS11

Channel Frequency : 5.745 GHz



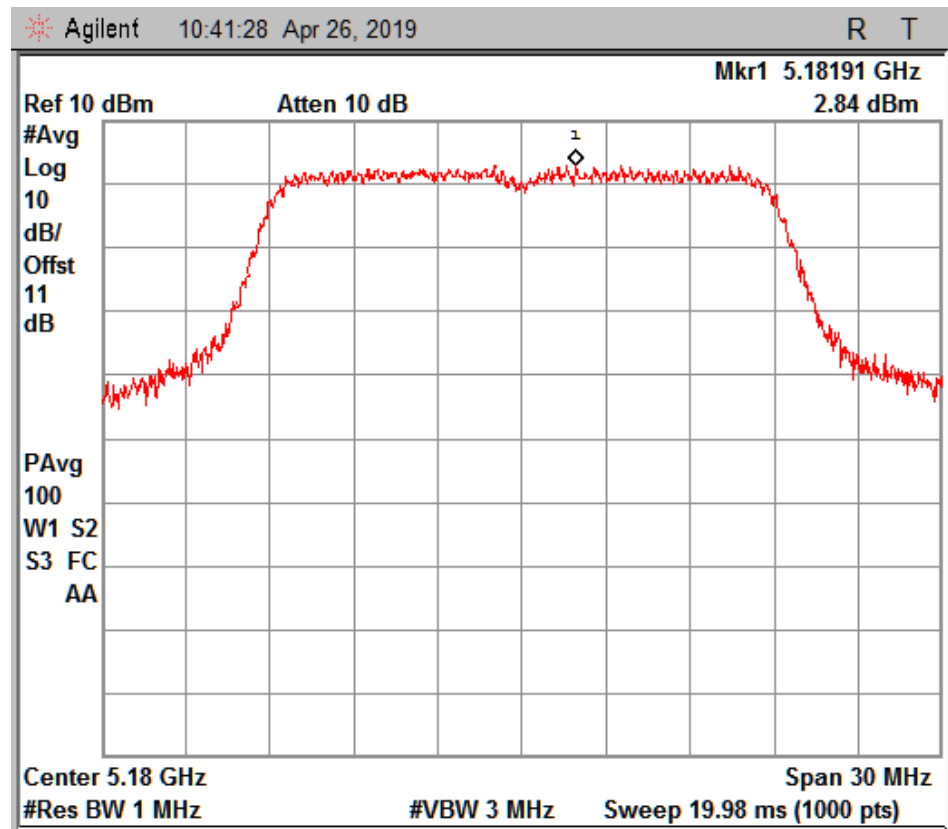
Data rate: MCS11

Channel Frequency : 5.825 GHz

Prüfbericht - Nr.:
Test Report No.:

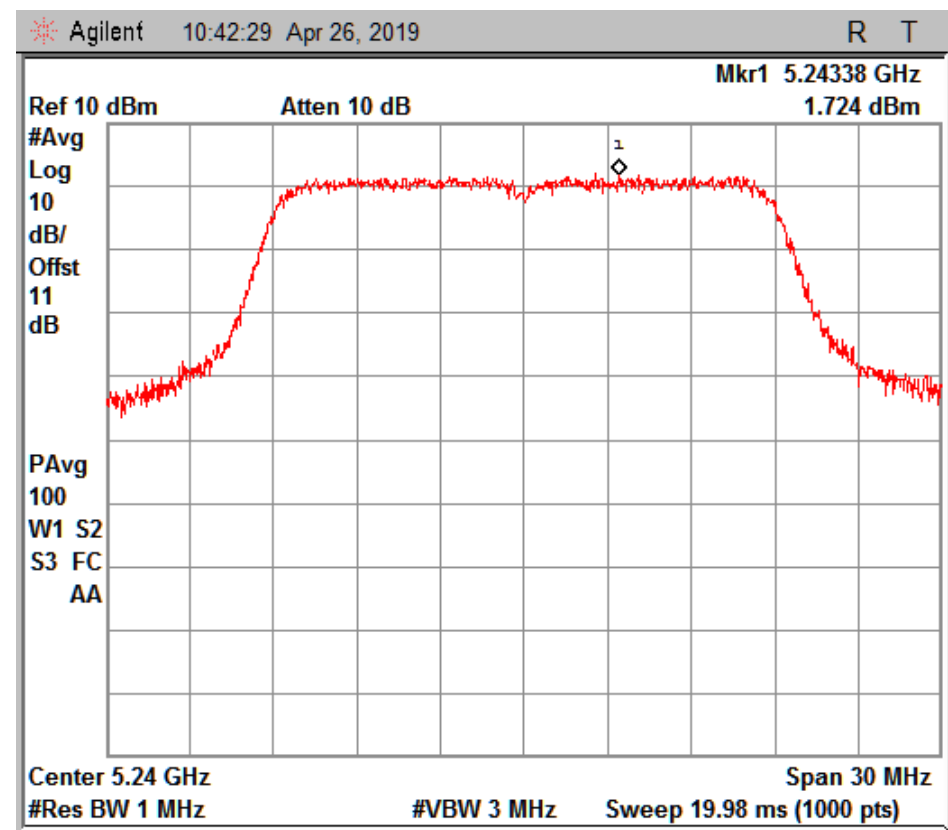
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Data rate: MCS15

Channel Frequency : 5.180 GHz



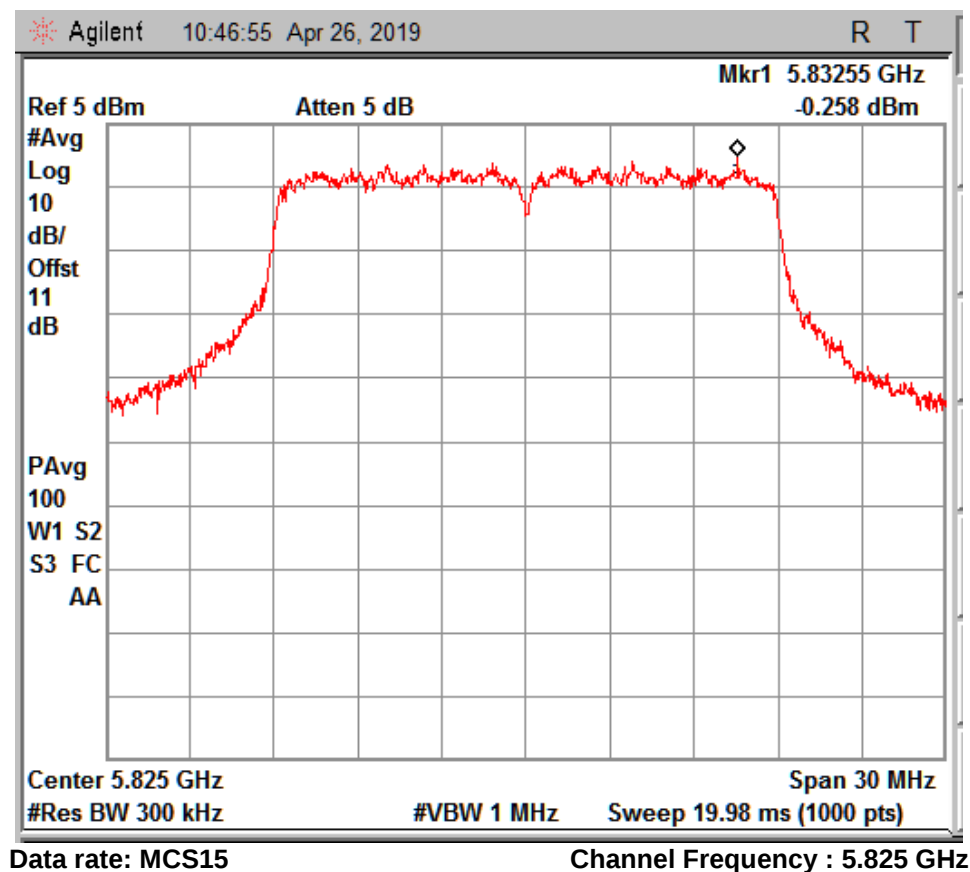
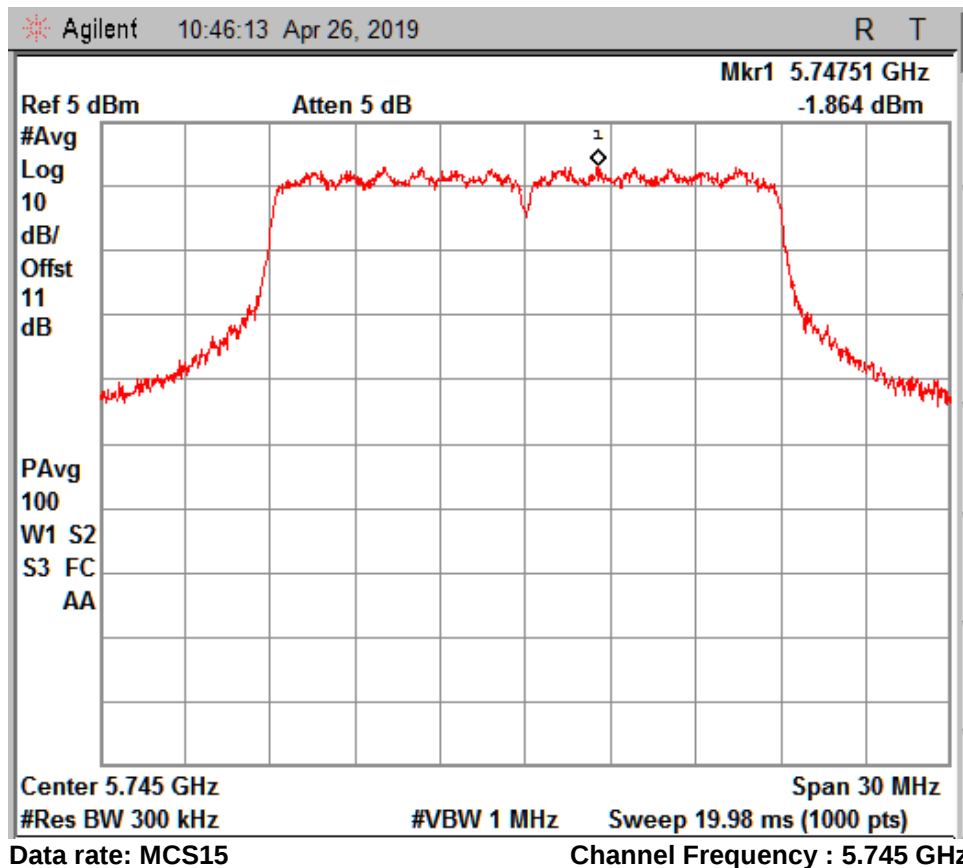
Data rate: MCS15

Channel Frequency : 5.240 GHz

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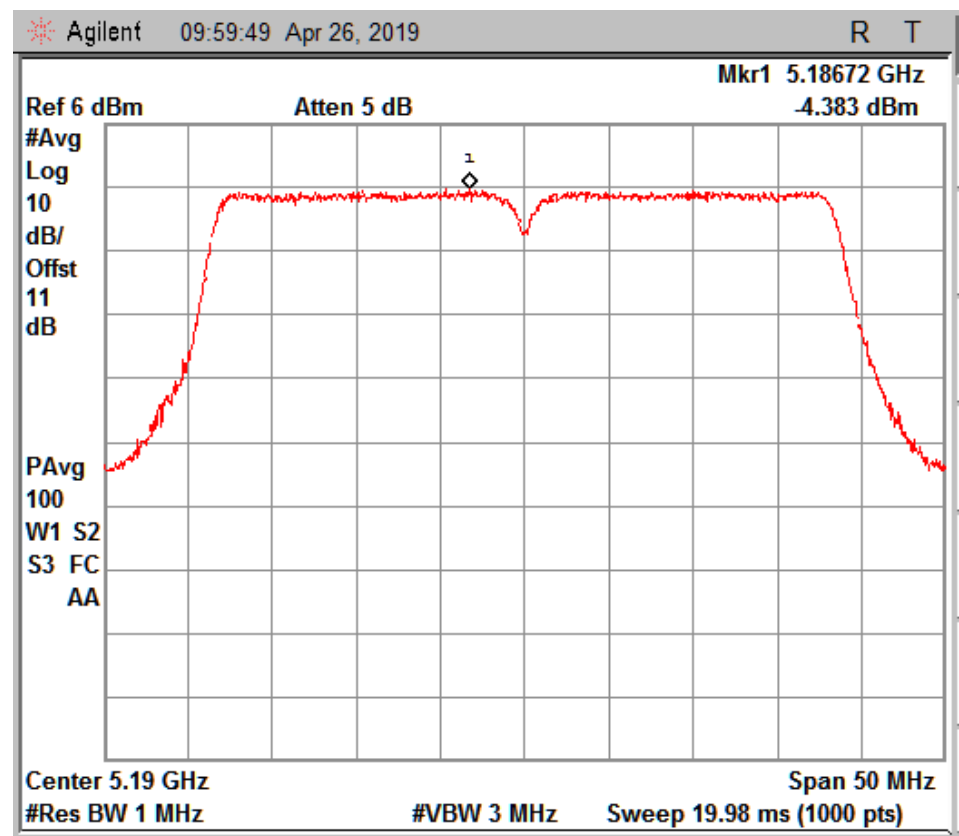
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Modulation: 802.11n mode MIMO_HT40

Data Rate (Mbps)	Frequency (MHz)	Chain 1 PSD (dBm)	Chain 2 PSD (dBm)	Add 10log(Nant)	Total PSD for Chain 1 (dBm)	Total PSD for Chain 2 (dBm)	Limit (dBm)
MCS8	5190	-4.38	-2.9	3.01	-1.37	0.11	11
	5230	-2.81	-1.35	3.01	0.20	1.66	11
	5755	-6.50	-5.22	3.01	-3.49	-2.21	11
	5795	-6.63	-5.66	3.01	-3.62	-2.65	11
MCS11	5190	-5.08	-3.21	3.01	-2.07	-0.20	11
	5230	-3.97	-2.06	3.01	-0.96	0.95	11
	5755	-7.16	-5.92	3.01	-4.15	-2.91	11
	5795	-7.12	-5.69	3.01	-4.11	-2.68	11
MCS15	5190	-5.82	-4.09	3.01	-2.81	-1.08	11
	5230	-4.46	-2.88	3.01	-1.45	0.13	11
	5755	-6.86	-5.67	3.01	-3.85	-2.66	11
	5795	-6.44	-5.71	3.01	-3.43	-2.70	11

Chain 1



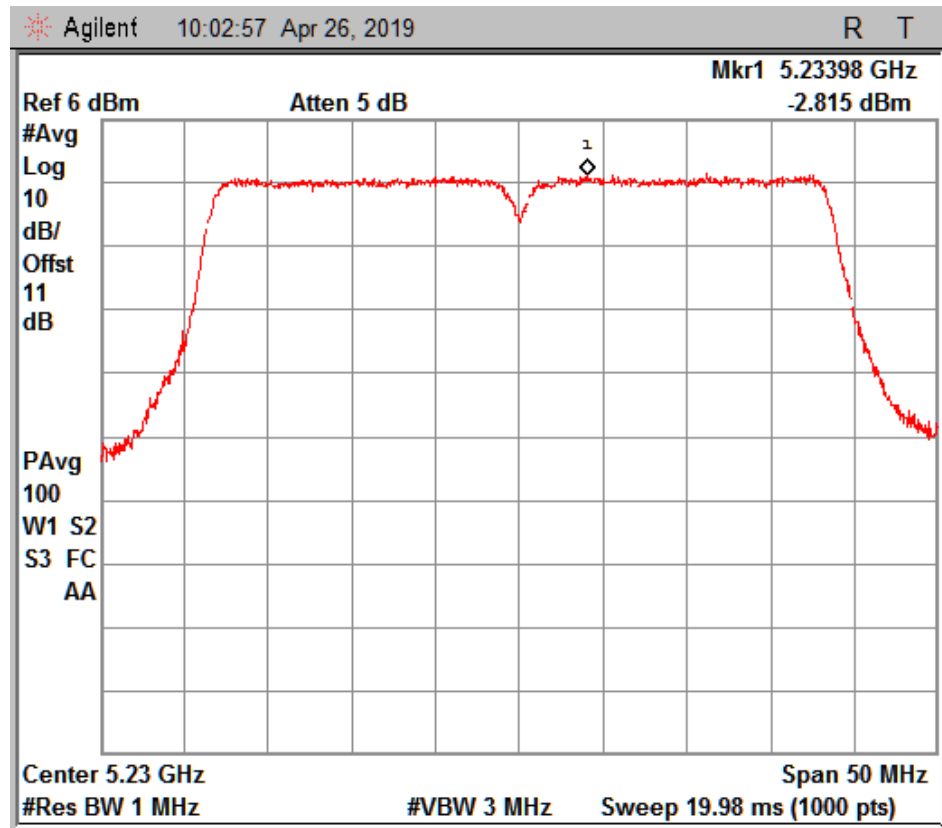
Data rate: MCS8

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
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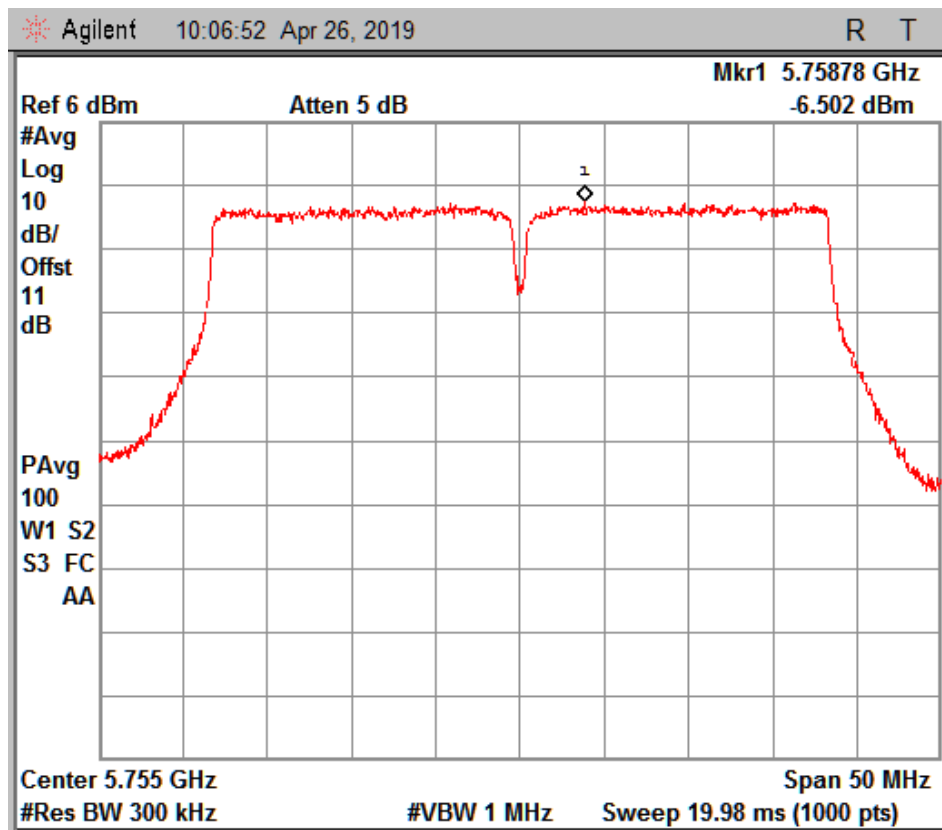
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Data rate: MCS8

Channel Frequency : 5.230 GHz



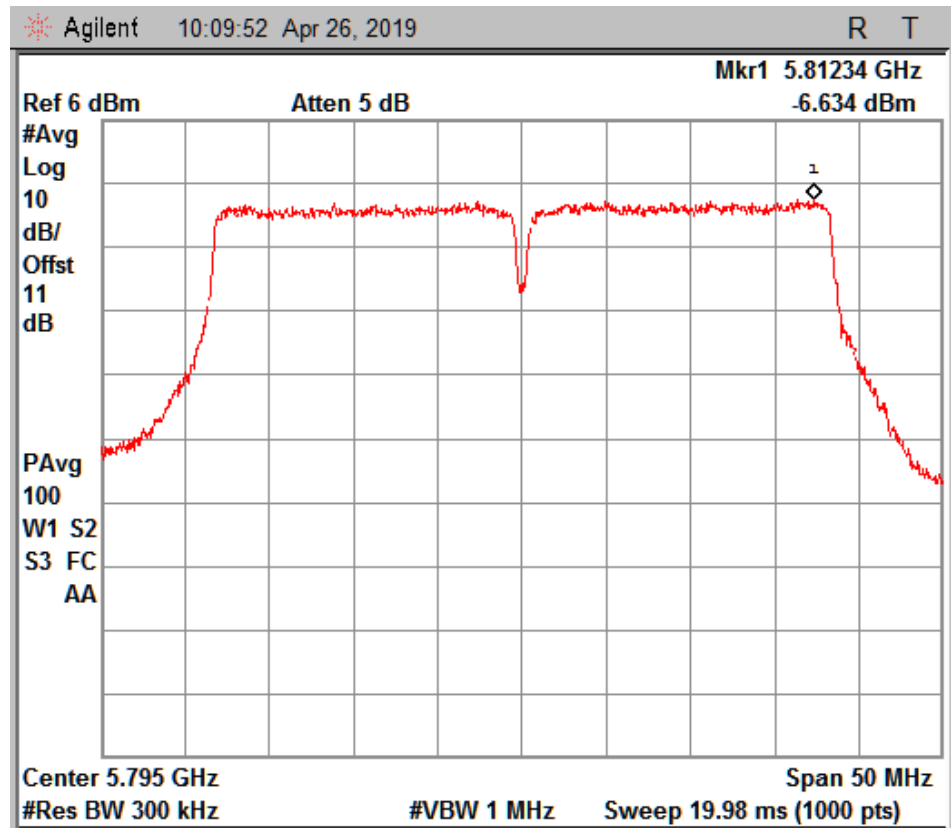
Data rate: MCS8

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

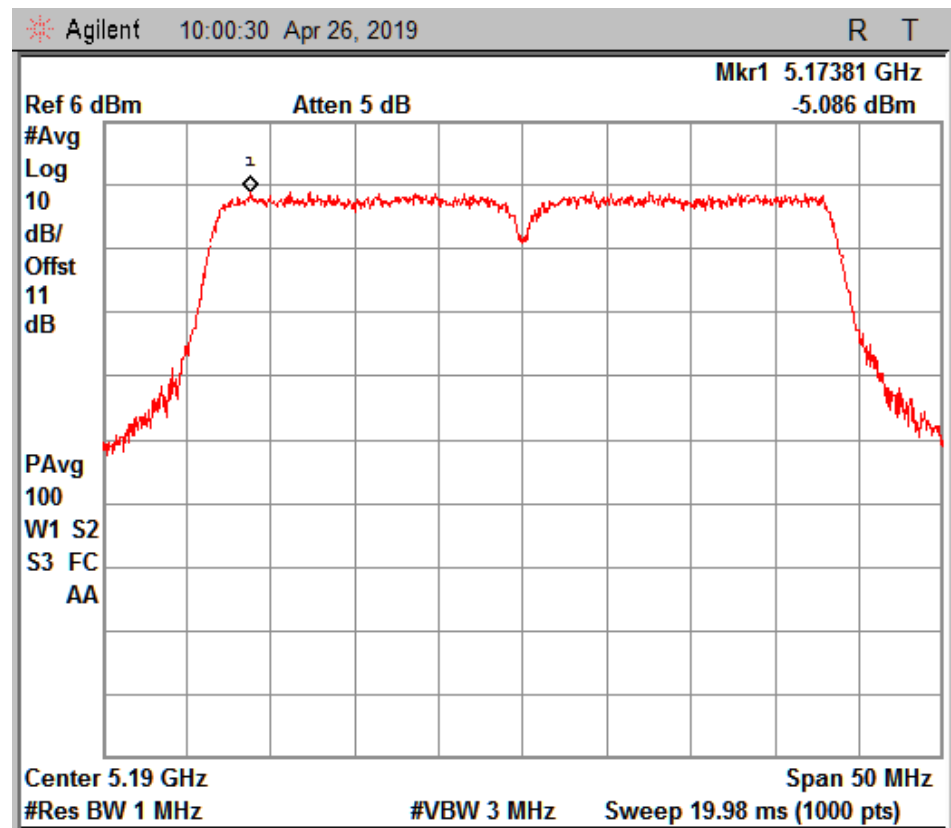
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Data rate: MCS8

Channel Frequency : 5.795 GHz



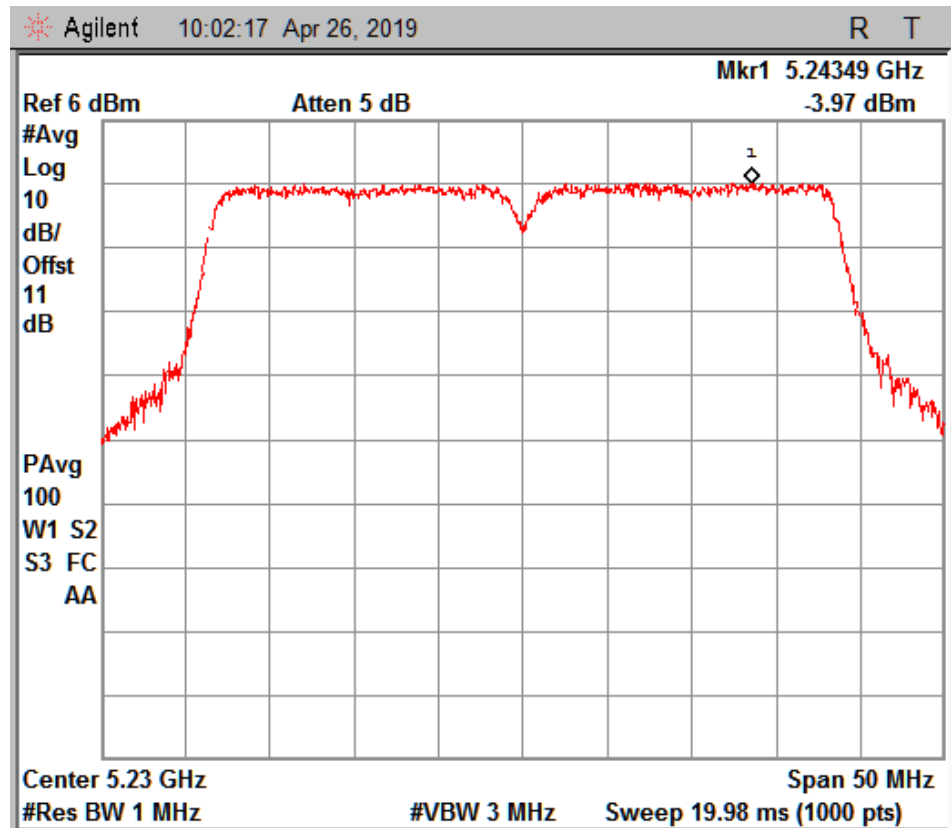
Data rate: MCS11

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

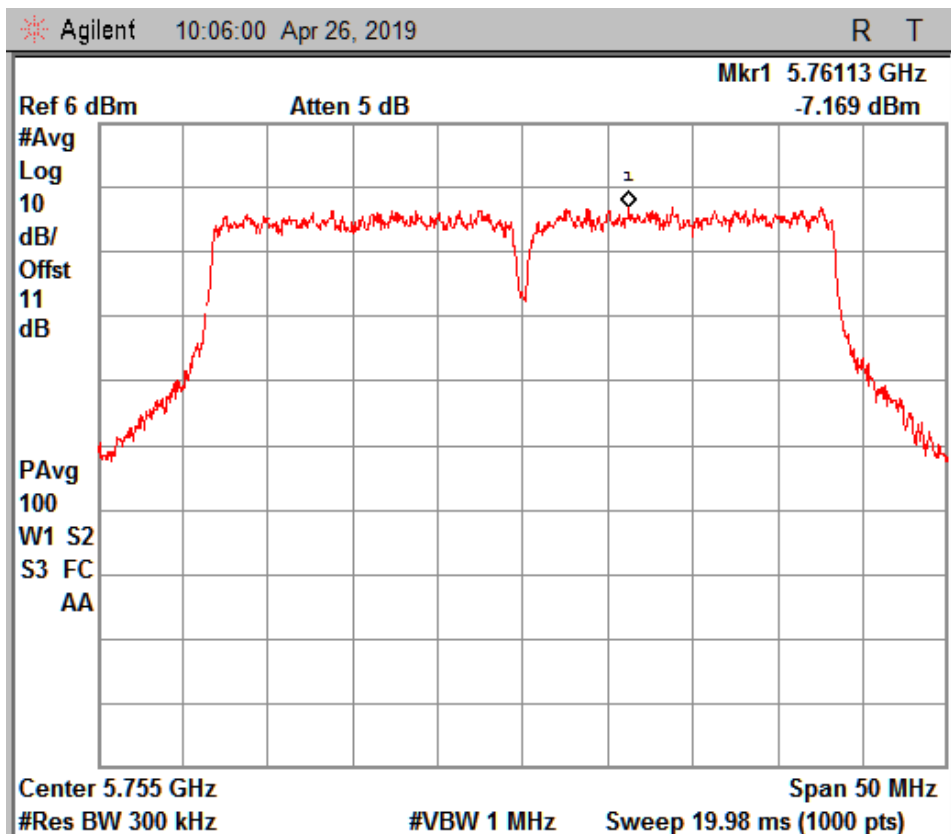
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Data rate: MCS11

Channel Frequency : 5.230 GHz



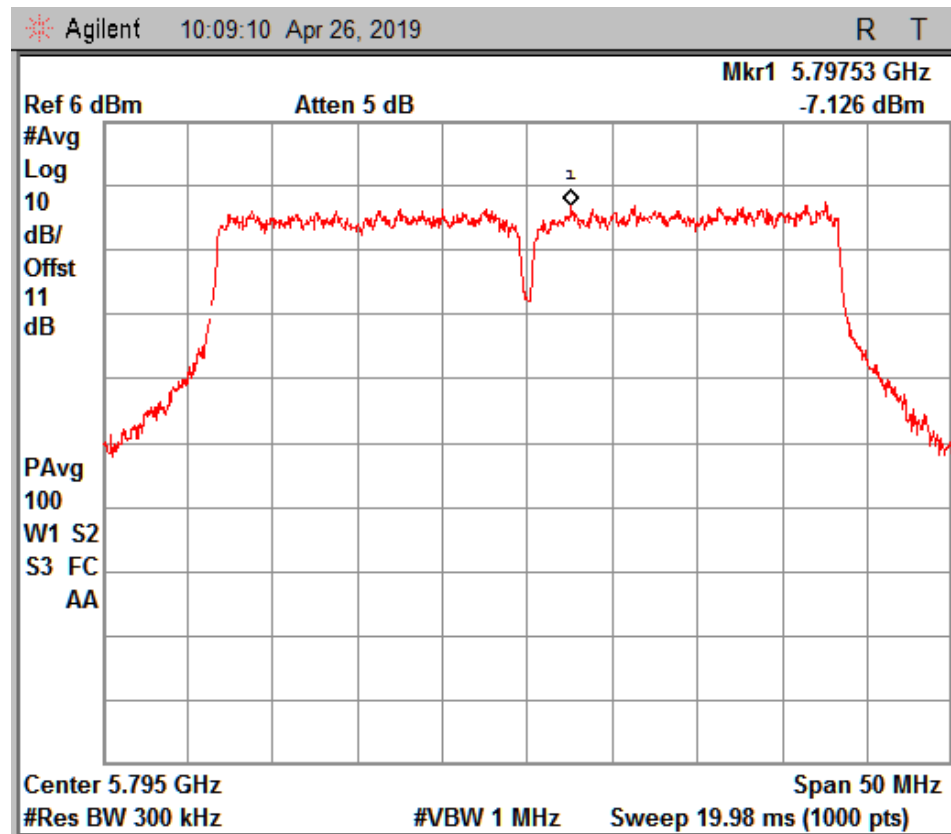
Data rate: MCS11

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

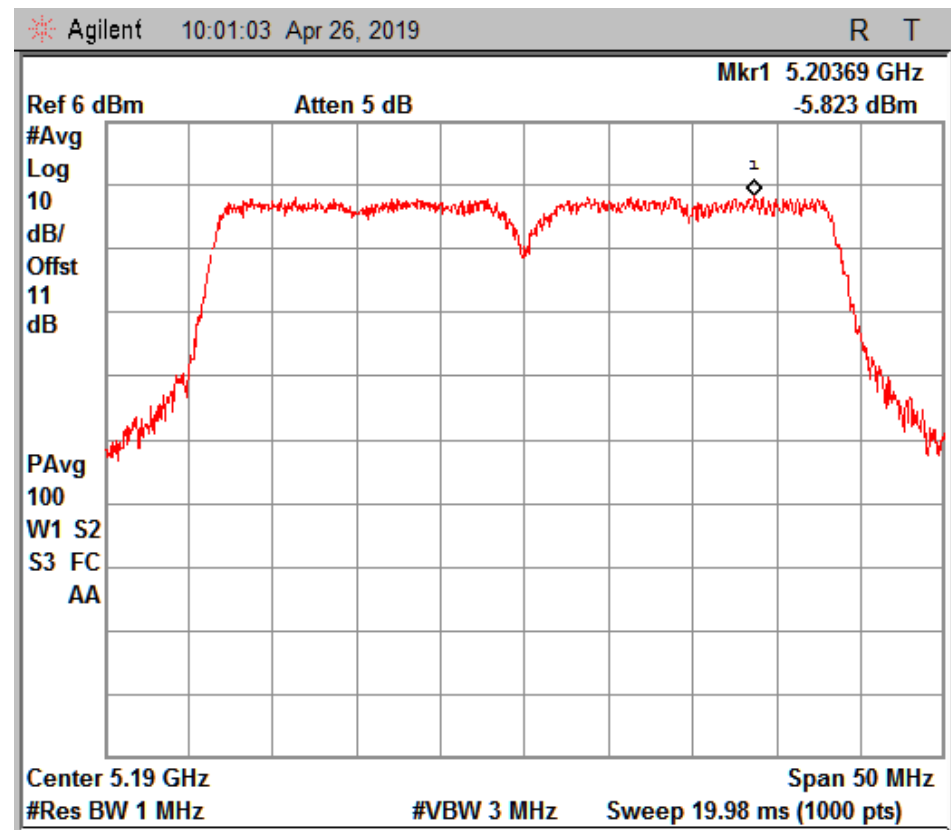
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Data rate: MCS11

Channel Frequency : 5.795 GHz



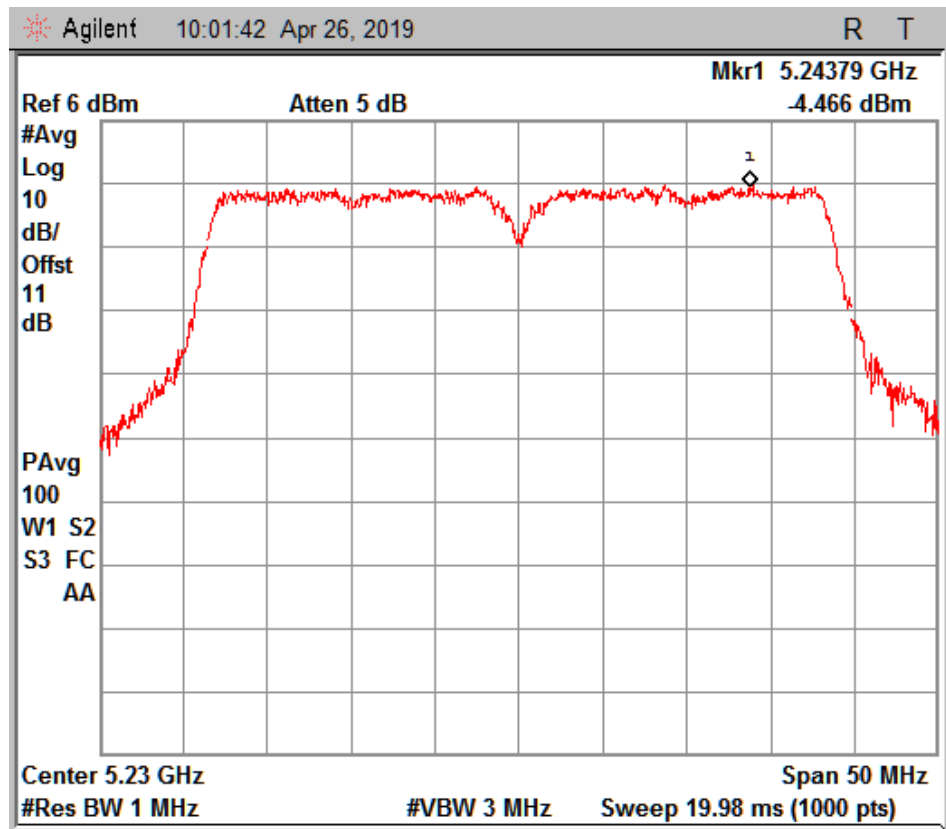
Data rate: MCS15

Channel Frequency : 5.190 GHz

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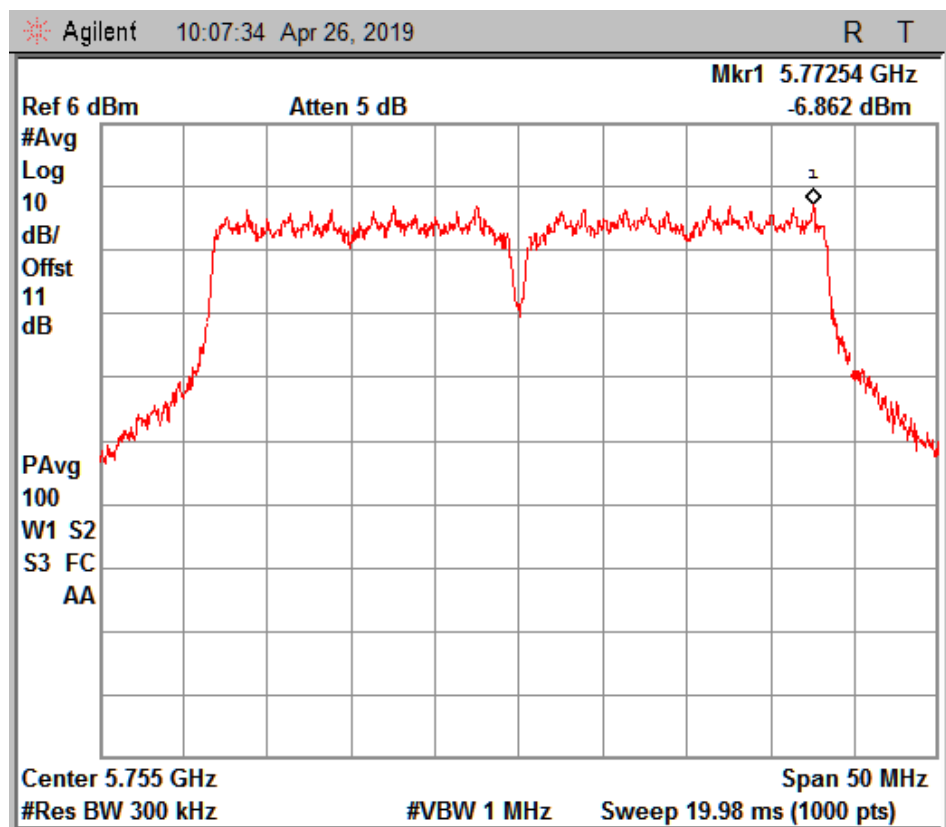
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Data rate: MCS15

Channel Frequency : 5.230 GHz



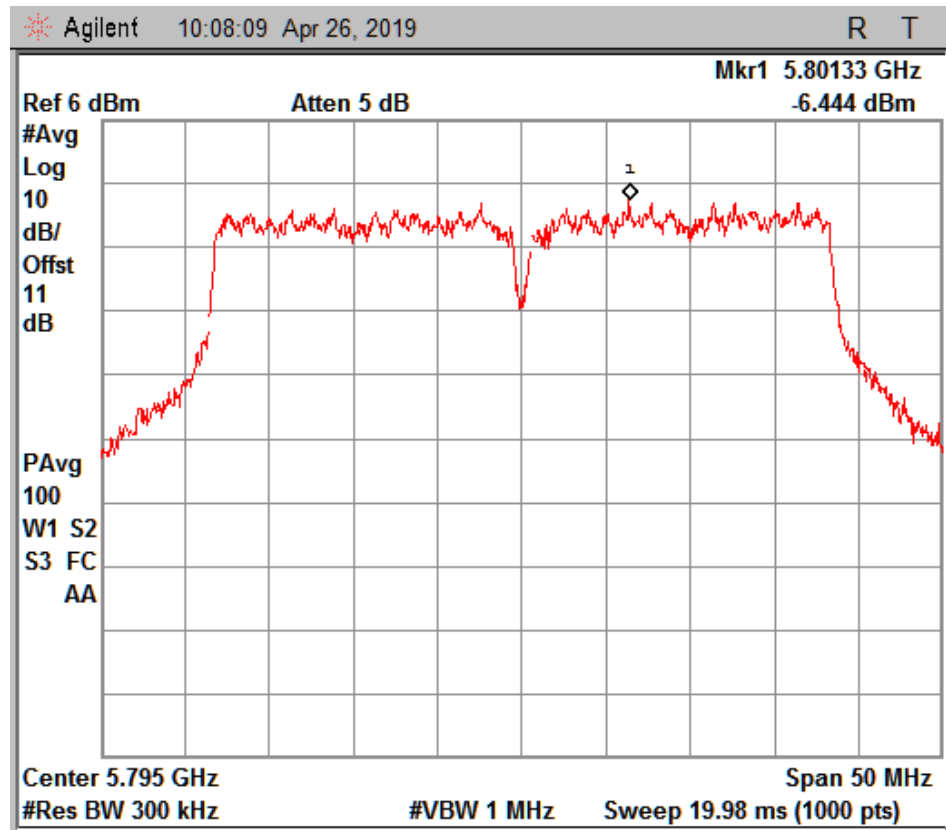
Data rate: MCS15

Channel Frequency : 5.755 GHz

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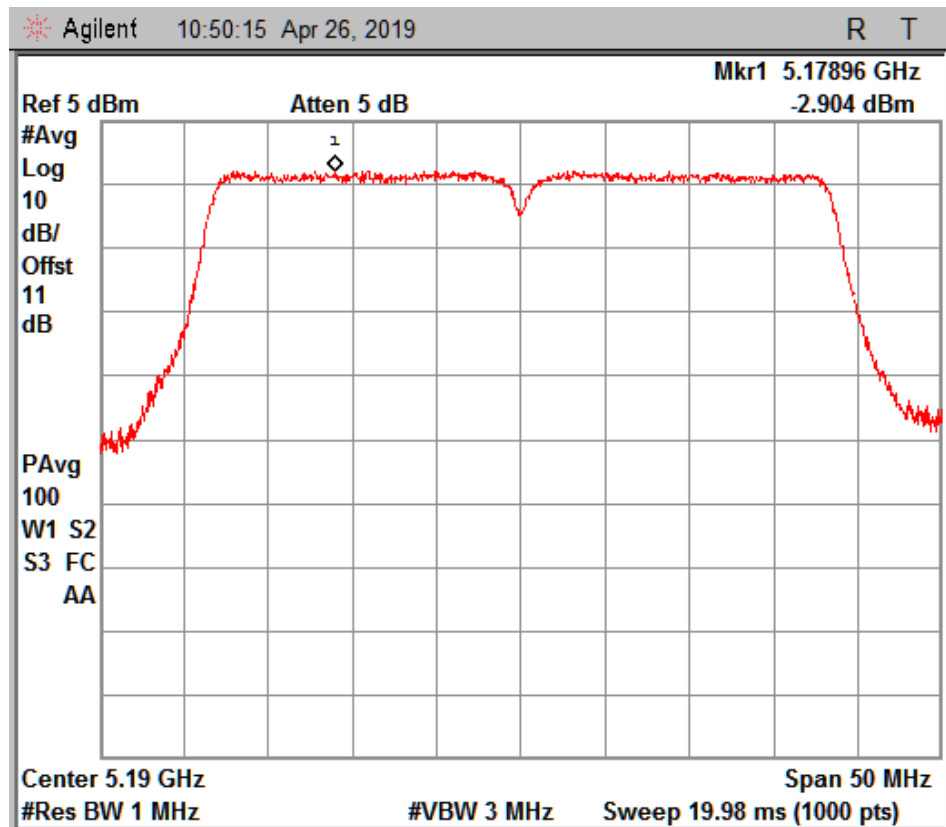
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Data rate: MCS15

Channel Frequency : 5.795 GHz

Chain 2



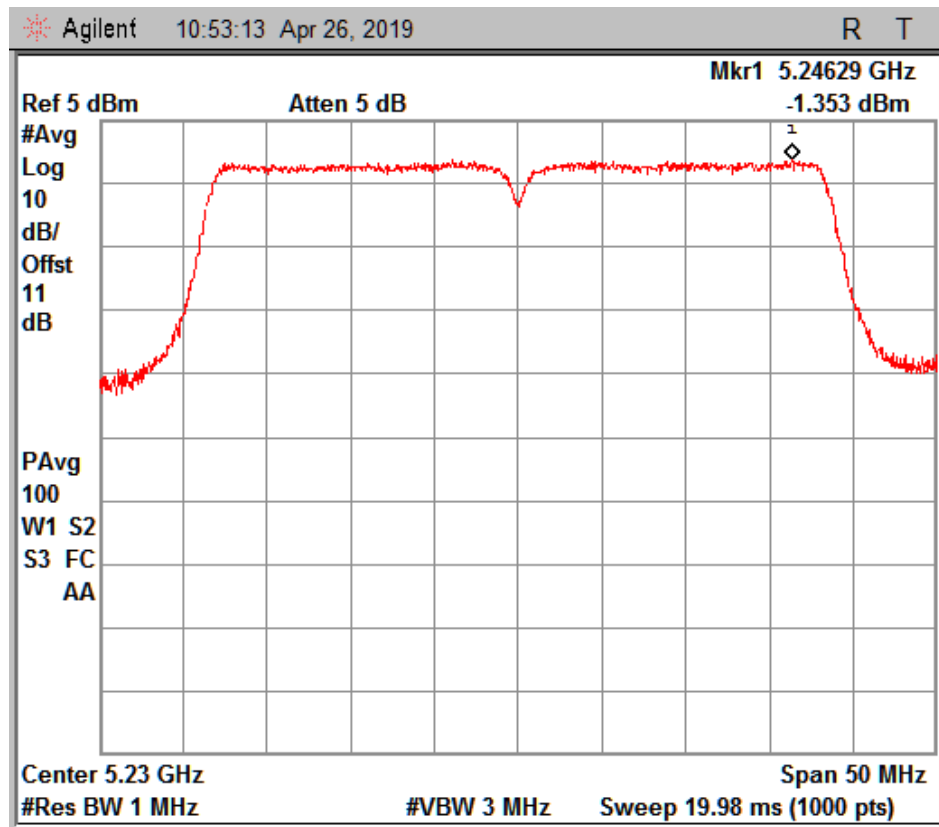
Data rate: MCS8

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

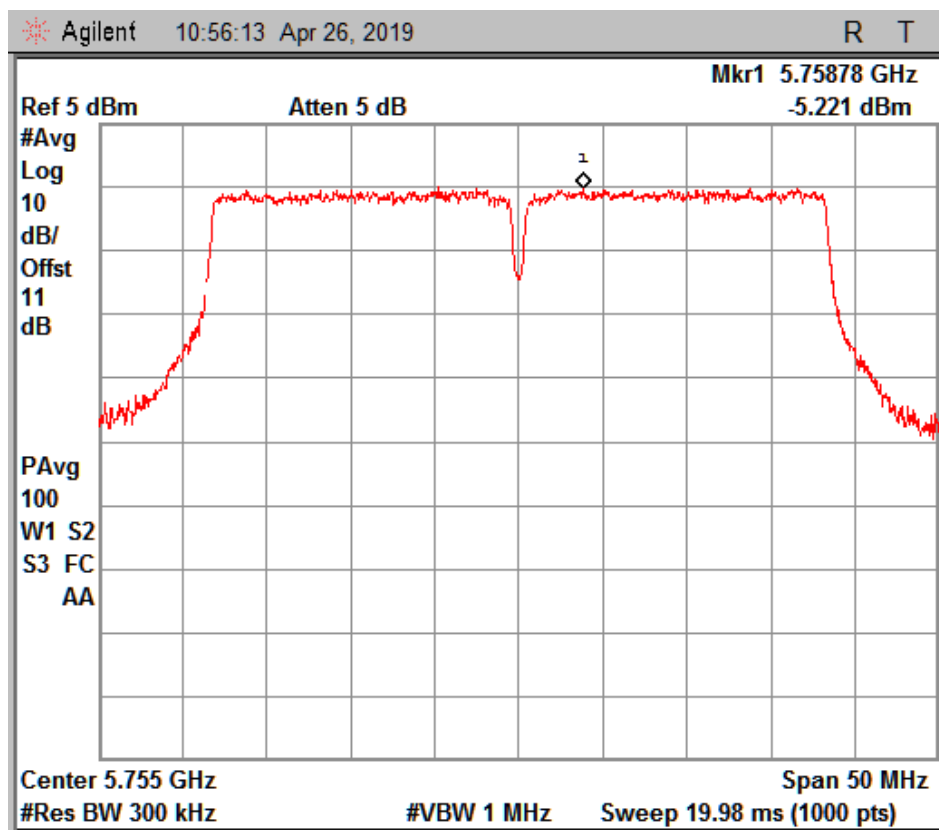
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Data rate: MCS8

Channel Frequency : 5.230 GHz



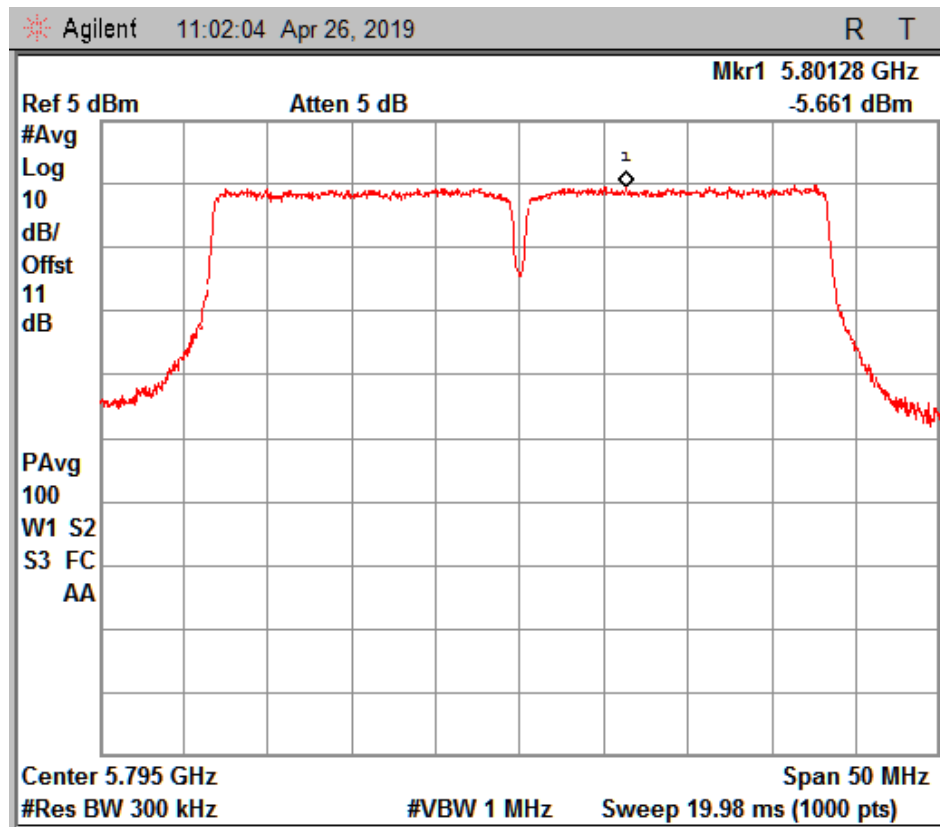
Data rate: MCS8

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

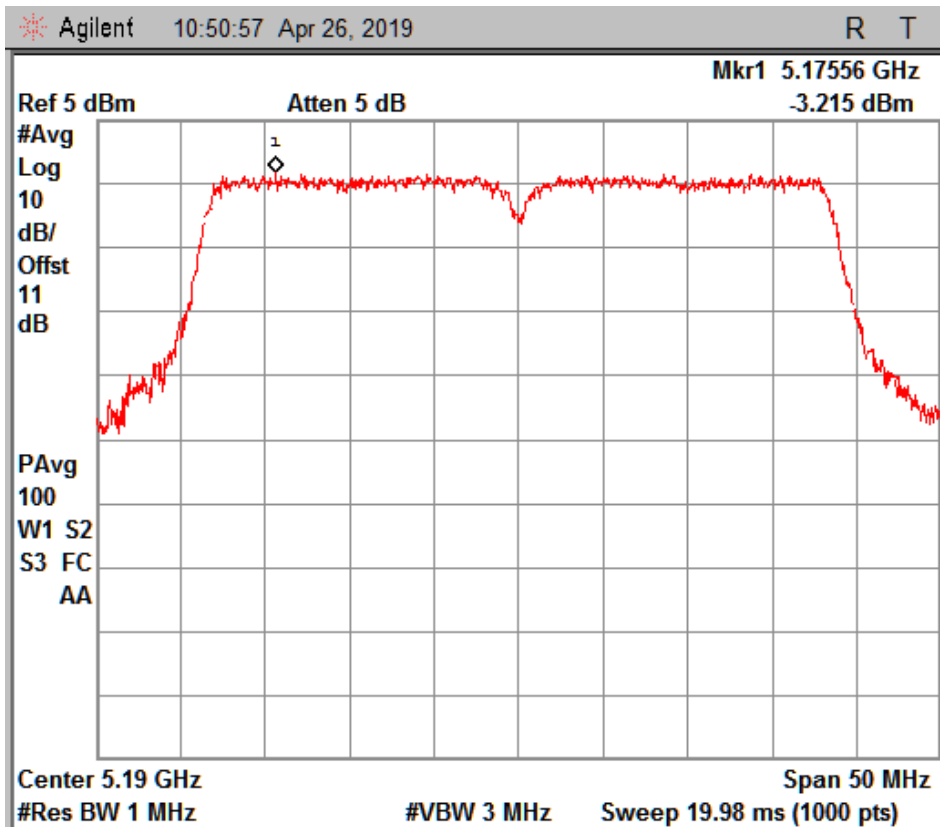
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Data rate: MCS8

Channel Frequency : 5.795 GHz



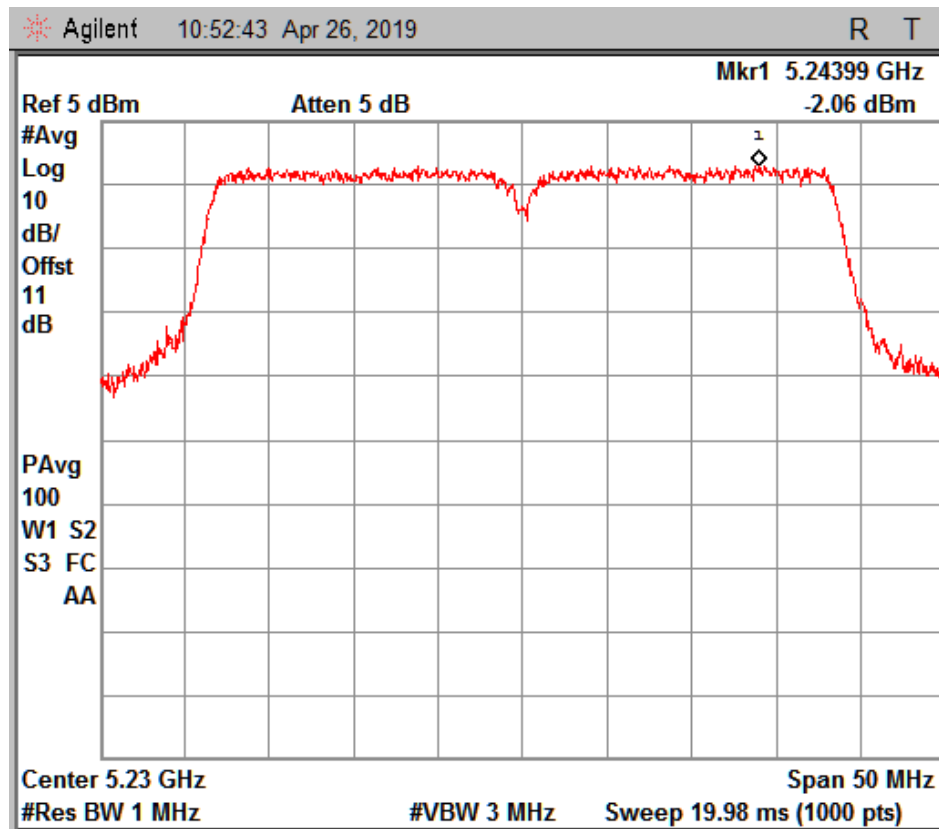
Data rate: MCS11

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

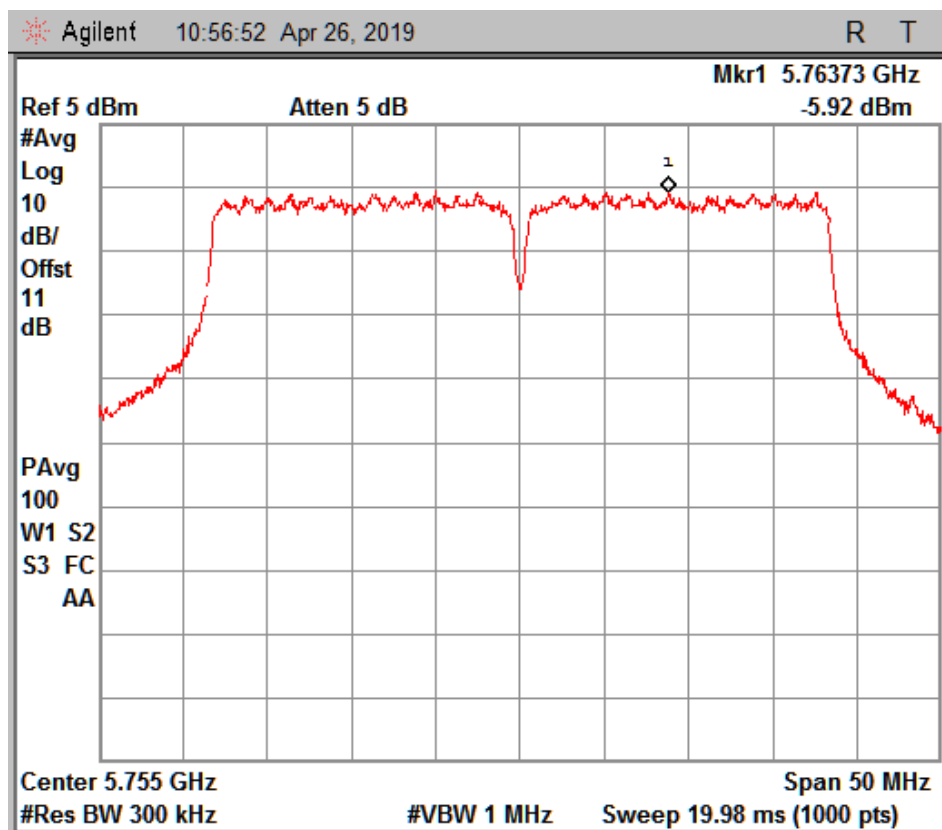
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Data rate: MCS11

Channel Frequency : 5.230 GHz



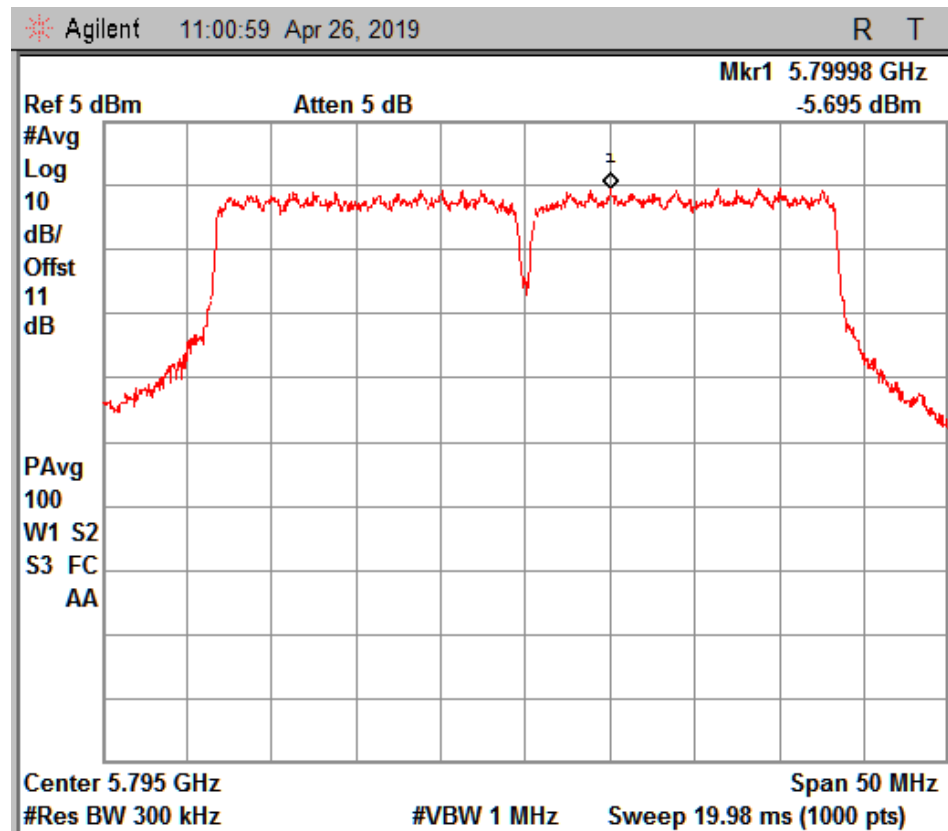
Data rate: MCS11

Channel Frequency : 5.755 GHz

Prüfbericht - Nr.:
Test Report No.:

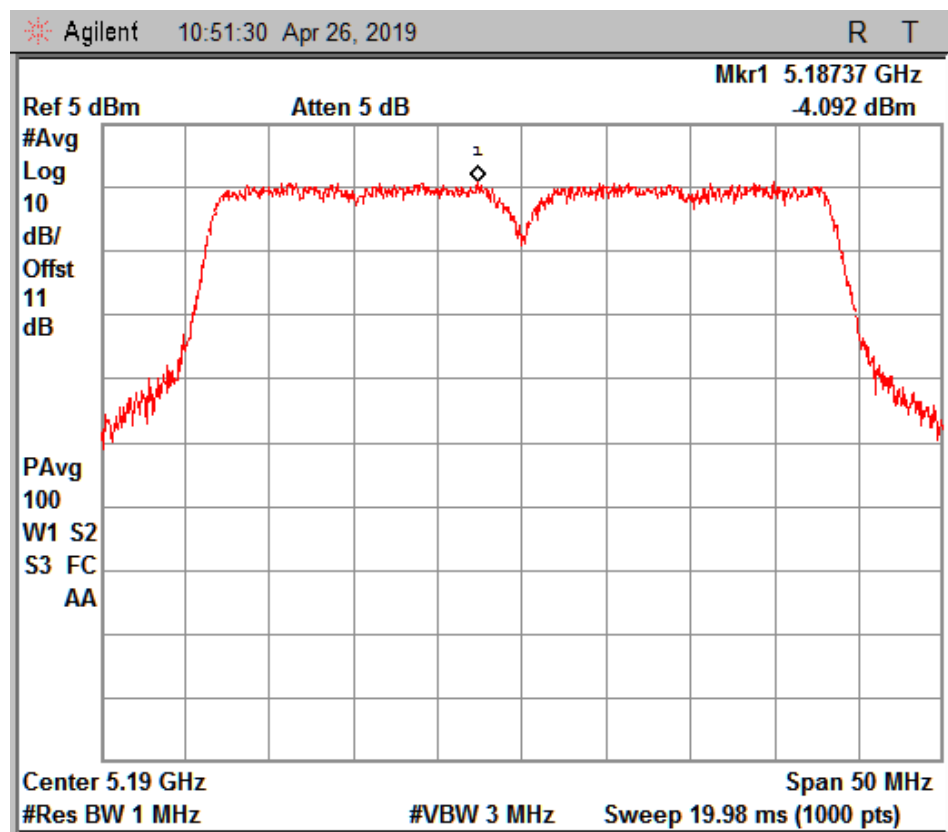
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Data rate: MCS11

Channel Frequency : 5.795 GHz



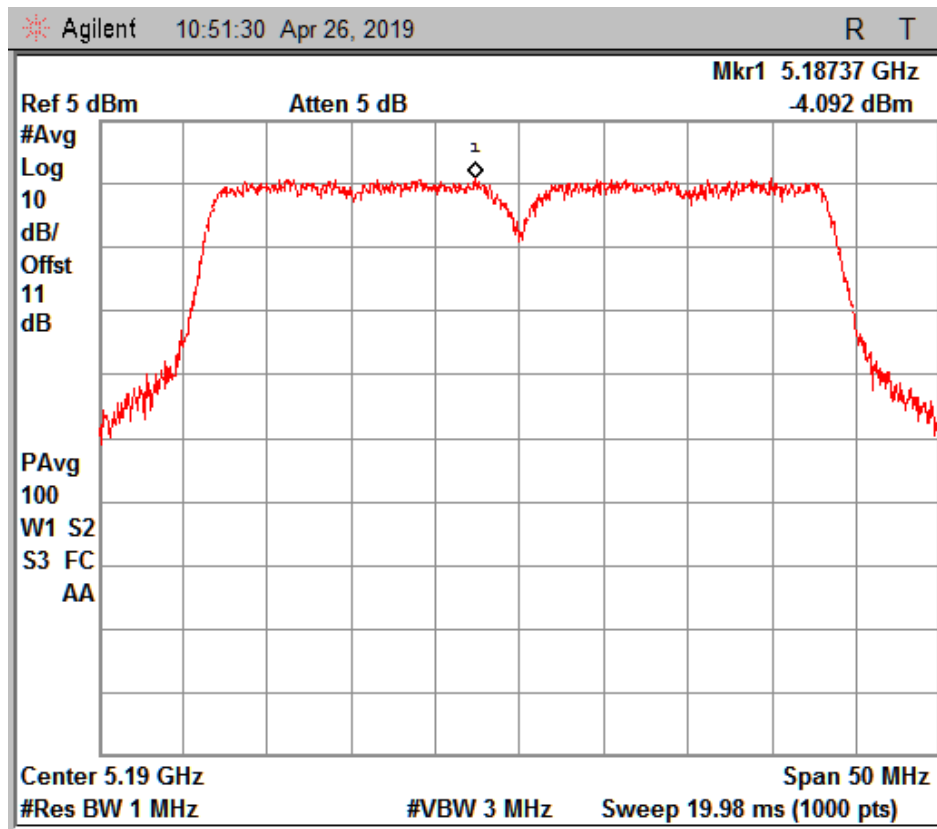
Data rate: MCS15

Channel Frequency : 5.190 GHz

Prüfbericht - Nr.:
Test Report No.:

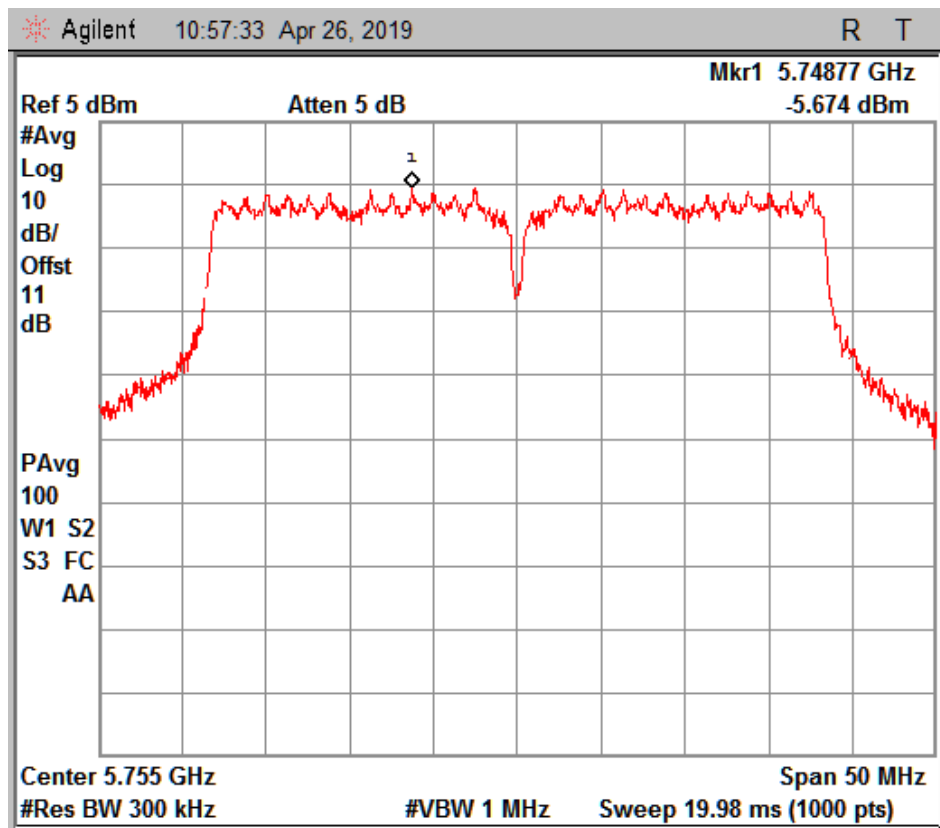
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Data rate: MCS15

Channel Frequency : 5.230 GHz



Data rate: MCS15

Channel Frequency : 5.755 GHz

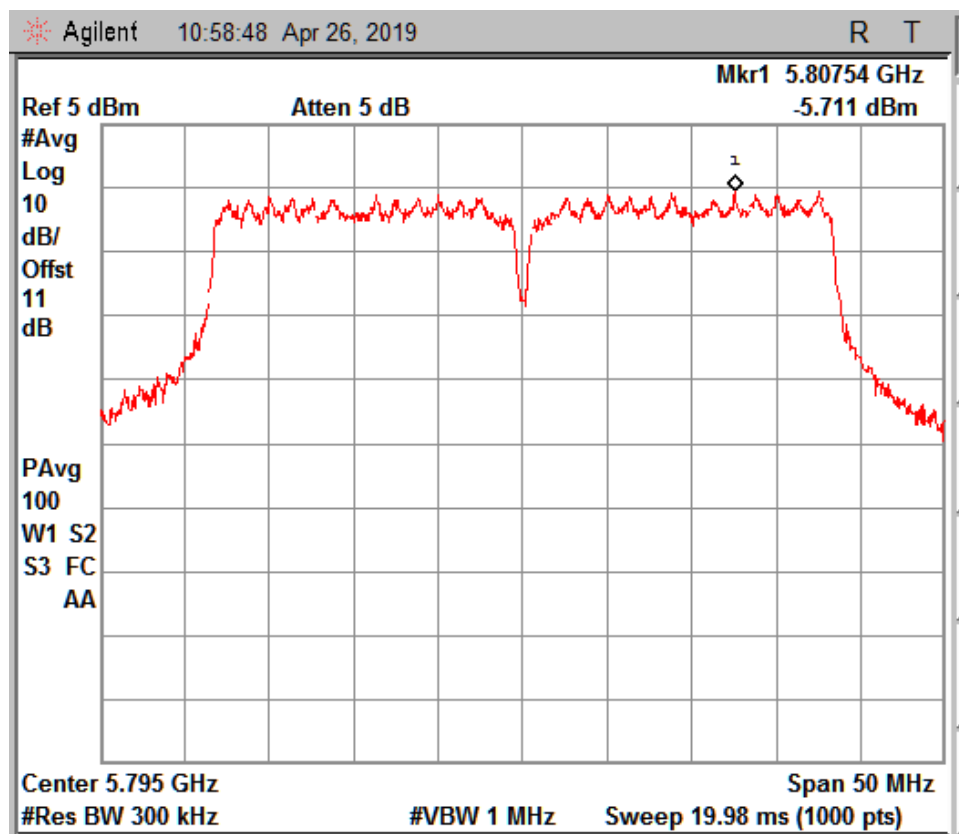
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Data rate: MCS15

Channel Frequency : 5.795 GHz

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6.4 Radiated Spurious Emissions and Emissions in Restricted bands of operation

Result

Pass

Test Specification FCC Part 15 Section 15.209

Test Method ANSI C63.10-2013

Measurement Location Semi Anechoic Chamber

Measuring Distance 3m
Requirement Should Comply with the limits stated in the below table.

Limit for Radiated Emission of Section 15.209:

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds To 88,50 – 53.80, 53.80 – 43.00 and 49.5dBμV/m at 3m range by extrapolation calculation and The measurement of loop antenna

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Environmental and Test conditions:

Normal Temperature = +25 °C

Voltage (V norm) = 12 V DC

RH = 63.2 %

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Test results:

No emissions found in frequency 9 kHz to 30 MHz

Module with accessories

Test results for frequencies in the range 30 MHz – 1 GHz

Polarization	Frequency (MHz)	Measured value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	216	25.74	43.5	-17.76
Horizontal	61.11	16.61	40	-23.39
	216	34.76	43.5	-8.74
	434.53	37.57	46	-8.43
	869.04	40.51	46	-5.49

Module without accessories

Test results for frequencies in the range 30 MHz – 1 GHz

Polarization	Frequency (MHz)	Measured value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	167.99	38.04	43.5	-5.46
	215.97	28.77	43.5	-14.73
	360.02	25.85	46	-20.15
Horizontal	60.583	16.42	40	-23.58
	168.01	32.85	43.5	-10.65
	215.97	38.09	43.5	-5.41
	360	35.74	46	-10.26

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For Frequencies above 1 GHz for module without accessories

Antenna: Antennova

a mode : 54Mbps

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	56.74	74	-17.26
5150(Av)		36.64	54	-17.36
5180 (Pk)		104.22	-	*
5180 (Av)		91.07	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5150(Pk)	Horizontal	55.41	74	-18.59
5150(Av)		32.74	54	-21.26
5180 (Pk)		97.76	-	*
5180 (Av)		84.17	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5240 (Pk)	Vertical	103.06	-	*
5240 (Av)		89.76	-	*
5350(Pk)		45.32	74	-28.68
5350(Av)		33.13	54	-20.87
10480 (Pk)		No Harmonics found		
10480 (Av)				
5240 (Pk)	Horizontal	98.97	-	*
5240 (Av)		85.31	-	*
5350(Pk)		42.99	74	-31.01
5350(Av)		31.07	54	-22.93
10480 (Pk)		No Harmonics found		
10480 (Av)				
5745 (Pk)	Vertical	99.66	-	*
5745(Av)		86.35	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5745 (Pk)	Horizontal	96.65	-	*
5745(Av)		83.2	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5825 (Pk)	Vertical	102.19	-	*
5825(Av)		88.59	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				
5825 (Pk)	Horizontal	98.45	-	*
5825(Av)		85.03	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				

* - -> Fundamental Frequency
P-->Peak detector
AV-->Average Detector

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ac mode: VHT20_SISO
MCS8:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	57.12	74	-16.88
5150(Av)		37.36	54	-16.64
5180 (Pk)		102.33	-	*
5180 (Av)		92.19	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	51.14	74	-22.86
5150(Av)		33.11	54	-20.89
5180 (Pk)		96.06	-	*
5180 (Av)		85.8	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	101.47	-	*
5240 (Av)		91.49	-	*
5350(Pk)		45.50	74	-28.50
5350(Av)		31.58	54	-22.42
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	97.46	-	*
5240 (Av)		87.54	-	*
5350(Pk)		43.10	74	-30.90
5350(Av)		31.39	54	-22.61
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	96.53	-	*
5745(Av)		86.46	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	94.26	-	*
5745(Av)		83.72	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	96.39	-	*
5825(Av)		86.00	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	95.42	-	*
5825(Av)		85.01	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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ac mode: VHT40_SISO
MCS5:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	55.16	74	-18.84
5150(Av)		38.37	54	-15.63
5190 (Pk)		102.12	-	*
5190 (Av)		86.89	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5150(Pk)	Horizontal	53.90	74	-20.10
5150(Av)		34.30	54	-19.70
5190 (Pk)		95.89	-	*
5190 (Av)		80.62	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5230 (Pk)	Vertical	100.95	-	*
5230 (Av)		86.13	-	*
5350(Pk)		47.51	74	-26.49
5350(Av)		32.87	54	-21.13
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5230 (Pk)	Horizontal	96.52	-	*
5230 (Av)		82.11	-	*
5350(Pk)		45.02	74	-28.98
5350(Av)		31.06	54	-22.94
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5755 (Pk)	Vertical	95.57	-	*
5755(Av)		80.35	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5755 (Pk)	Horizontal	93.66	-	*
5755(Av)		78.13	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5795 (Pk)	Vertical	95.78	-	*
5795(Av)		80.34	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		
5795 (Pk)	Horizontal	93.31	-	*
5795(Av)		78.56	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		

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ac mode: VHT80_SISO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350(Pk)	Vertical	49.02	74	-24.98
5350(Av)		33.24	54	-20.76
5210 (Pk)		93.30	-	*
5210 (Av)		78.36	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5350(Pk)	Horizontal	49.04	74	-24.96
5350(Av)		32.94	54	-21.06
5210 (Pk)		92.97	-	*
5210 (Av)		78.14	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5775 (Pk)	Vertical	93.80	-	*
5775 (Av)		78.57	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				
5775 (Pk)	Horizontal	91.25	-	*
5775 (Av)		76.01	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				

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ac mode: VHT20_MIMO
MCS8:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	56.68	74	-17.32
5150(Av)		37.57	54	-16.43
5180 (Pk)		104.79	-	*
5180 (Av)		92.79	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	52.79	74	-21.21
5150(Av)		38.85	54	-15.15
5180 (Pk)		99.53	-	*
5180 (Av)		87.83	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	106.31	-	*
5240 (Av)		94.52	-	*
5350(Pk)		44.81	74	-29.19
5350(Av)		31.94	54	-22.06
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	97.81	-	*
5240 (Av)		86.63	-	*
5350(Pk)		43.26	74	-30.74
5350(Av)		30.03	54	-23.97
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	100.35	-	*
5745(Av)		89	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	98.44	-	*
5745(Av)		87.4	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	101.12	-	*
5825(Av)		89.51	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	98.56	-	*
5825(Av)		86.23	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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ac mode: VHT40_MIMO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	62.54	74	-11.46
5150(Av)		39.57	54	-14.43
5190 (Pk)		100.73	-	*
5190 (Av)		88.27	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5150(Pk)	Horizontal	53.91	74	-20.09
5150(Av)		34.72	54	-19.28
5190 (Pk)		95.31	-	*
5190 (Av)		88.20	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5230 (Pk)	Vertical	102.06	-	*
5230 (Av)		89.87	-	*
5350(Pk)		47.47	74	-26.53
5350(Av)		32.49	54	-21.51
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5230 (Pk)	Horizontal	97.26	-	*
5230 (Av)		83.83	-	*
5350(Pk)		49.90	74	-24.10
5350(Av)		31.72	54	-22.28
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5755 (Pk)	Vertical	98.41	-	*
5755(Av)		84.82	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5755 (Pk)	Horizontal	96.17	-	*
5755(Av)		83.11	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5795 (Pk)	Vertical	96.95	-	*
5795(Av)		83.70	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		
5795 (Pk)	Horizontal	96.16	-	*
5795(Av)		43.46	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		

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ac mode: VHT80_MIMO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350(Pk)	Vertical	45.43	74	-28.57
5350(Av)		32.44	54	-21.56
5210 (Pk)		100.57	-	*
5210 (Av)		84.52	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5350(Pk)	Horizontal	42.87	74	-31.13
5350(Av)		30.26	54	-23.74
5210 (Pk)		95.28	-	*
5210 (Av)		79.18	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5775 (Pk)	Vertical	99.63	-	*
5775 (Av)		82.52	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				
5775 (Pk)	Horizontal	96.77	-	*
5775 (Av)		79.73	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				

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n mode: HT20_SISO

MCS7:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	61.67	74	-12.33
5150(Av)		36.12	54	-17.88
5180 (Pk)		102.56	-	*
5180 (Av)		88.57	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	51.24	74	-22.76
5150(Av)		32.78	54	-21.22
5180 (Pk)		97.59	-	*
5180 (Av)		83.71	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	102.62	-	*
5240 (Av)		88.68	-	*
5350(Pk)		44.79	74	-29.21
5350(Av)		32.14	54	-21.86
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	98.46	-	*
5240 (Av)		84.88	-	*
5350(Pk)		49.12	74	-24.88
5350(Av)		30.59	54	-23.41
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	98.41	-	*
5745(Av)		84.58	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	95.79	-	*
5745(Av)		81.78	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	96.82	-	*
5825(Av)		84.47	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	97.71	-	*
5825(Av)		83.62	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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n mode: HT40_SISO
MCS7:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	59.48	74	-14.52
5150(Av)		38.75	54	-15.25
5190 (Pk)		101.57	-	*
5190 (Av)		87.47	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5150(Pk)	Horizontal	53.62	74	-20.38
5150(Av)		34.53	54	-19.47
5190 (Pk)		95.66	-	*
5190 (Av)		81.31	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5230 (Pk)	Vertical	101.53	-	*
5230 (Av)		87.16	-	*
5350(Pk)		49.56	74	-24.44
5350(Av)		32.72	54	-21.28
10460 (Pk)		No Harmonics found		
10460 (Av)				
5230 (Pk)	Horizontal	96.79	-	*
5230 (Av)		82.87	-	*
5350(Pk)		44.44	74	-29.56
5350(Av)		31.37	54	-22.63
10460 (Pk)		No Harmonics found		
10460 (Av)				
5755 (Pk)	Vertical	98.3	-	*
5755(Av)		83.95	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5755 (Pk)	Horizontal	96.19	-	*
5755(Av)		81.81	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5795 (Pk)	Vertical	98.72	-	*
5795(Av)		84.37	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				
5795 (Pk)	Horizontal	97.61	-	*
5795(Av)		83.15	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				

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n mode: HT20_MIMO

MCS11:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	58.04	74	-15.96
5150(Av)		36.21	54	-17.79
5180 (Pk)		104.5	-	*
5180 (Av)		91.04	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	51.28	74	-22.72
5150(Av)		32.36	54	-21.64
5180 (Pk)		97.91	-	*
5180 (Av)		84.46	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	105.52	-	*
5240 (Av)		92.48	-	*
5350(Pk)		49.87	74	-24.13
5350(Av)		33.6	54	-20.4
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	98.4	-	*
5240 (Av)		84.79	-	*
5350(Pk)		43.26	74	-30.74
5350(Av)		30.46	54	-23.54
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	99.48	-	*
5745(Av)		85.74	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	97.39	-	*
5745(Av)		83.07	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	98.45	-	*
5825(Av)		85.12	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	97.36	-	*
5825(Av)		83.95	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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n mode: HT40_MIMO

MCS11:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	63.86	74	-10.14
5150(Av)		38.67	54	-15.33
5190 (Pk)		101.55	-	*
5190 (Av)		87.87	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5150(Pk)	Horizontal	53.18	74	-20.82
5150(Av)		33.67	54	-20.33
5190 (Pk)		95.11	-	*
5190 (Av)		80.72	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5230 (Pk)	Vertical	102.33	-	*
5230 (Av)		88.57	-	*
5350(Pk)		57.10	74	-16.90
5350(Av)		31.87	54	-22.13
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5230 (Pk)	Horizontal	102.89	-	*
5230 (Av)		89.00	-	*
5350(Pk)		47.58	74	-26.42
5350(Av)		33.14	54	-20.86
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5755 (Pk)	Vertical	96.24	-	*
5755(Av)		88.31	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5755 (Pk)	Horizontal	93.40	-	*
5755(Av)		79.38	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5795 (Pk)	Vertical	95.61	-	*
5795(Av)		81.36	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		
5795 (Pk)	Horizontal	95.23	-	*
5795(Av)		81.09	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		

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**Antenna: Molex
a mode: 54 Mbps**

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	53.34	74	-20.66
5150(Av)		34.12	54	-19.88
5180 (Pk)		106.77	-	*
5180 (Av)		93.07	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	51.02	74	-22.98
5150(Av)		35.42	54	-18.58
5180 (Pk)		102.13	-	*
5180 (Av)		89.02	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	105.4	-	*
5240 (Av)		92.72	-	*
5350(Pk)		43.41	74	-30.59
5350(Av)		37.80	54	-16.20
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	101.93	-	*
5240 (Av)		89.41	-	*
5350(Pk)		42.49	74	-31.51
5350(Av)		29.27	54	-24.73
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	103.94	-	*
5745(Av)		90.46	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	99.94	-	*
5745(Av)		86.41	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)		No Harmonics found		
5825 (Pk)	Vertical	103.87	-	*
5825(Av)		91.06	-	*
11650 (Pk)	Horizontal	No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)		98.37	-	*
5825(Av)		85.33	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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ac mode: VHT20_SISO
MCS8:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	60.63	74	-13.37
5150(Av)		38.49	54	-15.51
5180 (Pk)		105.84	-	*
5180 (Av)		92.20	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	54.00	74	-20.00
5150(Av)		34.20	54	-19.80
5180 (Pk)		100.77	-	*
5180 (Av)		86.94	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	105.87	-	*
5240 (Av)		92.73	-	*
5350(Pk)		46.70	74	-27.30
5350(Av)		34.11	54	-19.89
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	100.14	-	*
5240 (Av)		87.78	-	*
5350(Pk)		45.02	74	-28.98
5350(Av)		31.9	54	-22.10
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	101.67	-	*
5745(Av)		88.96	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	96.69	-	*
5745(Av)		83.38	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	102.41	-	*
5825(Av)		89.8	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	96.45	-	*
5825(Av)		83.97	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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ac mode: VHT40_SISO
MCS5:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	59.56	74	-14.44
5150(Av)		42.47	54	-11.53
5190 (Pk)		104.02	-	*
5190 (Av)		89.68	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5150(Pk)	Horizontal	53.95	74	-20.05
5150(Av)		37.18	54	-16.82
5190 (Pk)		98.41	-	*
5190 (Av)		83.52	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5230 (Pk)	Vertical	103.14	-	*
5230 (Av)		89.39	-	*
5350(Pk)		49.86	74	-24.14
5350(Av)		34.88	54	-19.12
10460 (Pk)		No Harmonics found		
10460 (Av)				
5230 (Pk)	Horizontal	97.33	-	*
5230 (Av)		82.88	-	*
5350(Pk)		46.97	74	-27.03
5350(Av)		32.47	54	-21.53
10460 (Pk)		No Harmonics found		
10460 (Av)				
5755 (Pk)	Vertical	100.42	-	*
5755(Av)		85.51	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5755 (Pk)	Horizontal	95.05	-	*
5755(Av)		80.06	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5795 (Pk)	Vertical	99.71	-	*
5795(Av)		85.28	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				
5795 (Pk)	Horizontal	94.19	-	*
5795(Av)		80.17	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				

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ac mode: VHT80_SISO
MCS5:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350(Pk)	Vertical	46.58	74	-27.42
5350(Av)		33.97	54	-20.03
5210 (Pk)		100.45	-	*
5210 (Av)		85.63	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5350(Pk)	Horizontal	45.96	74	-28.04
5350(Av)		32.04	54	-21.96
5210 (Pk)		94.64	-	*
5210 (Av)		80.08	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5775 (Pk)	Vertical	83.61	-	*
5775 (Av)		96.03	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				
5775 (Pk)	Horizontal	93.09	-	*
5775 (Av)		78.00	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				

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ac mode: VHT20_MIMO
MCS8:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	63.26	74	-10.74
5150(Av)		40.61	54	-13.39
5180 (Pk)		105.75	-	*
5180 (Av)		96.21	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5150(Pk)	Horizontal	53.48	74	-20.52
5150(Av)		35.67	54	-18.33
5180 (Pk)		102.3	-	*
5180 (Av)		89.10	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5240 (Pk)	Vertical	110.223	-	*
5240 (Av)		96.14	-	*
5350(Pk)		47.68	74	-26.32
5350(Av)		35.54	54	-18.46
10480 (Pk)		No Harmonics found		
10480 (Av)				
5240 (Pk)	Horizontal	103.31	-	*
5240 (Av)		90.18	-	*
5350(Pk)		44.22	74	-29.78
5350(Av)		32.60	54	-21.40
10480 (Pk)		No Harmonics found		
10480 (Av)				
5745 (Pk)	Vertical	101.63	-	*
5745(Av)		89.73	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5745 (Pk)	Horizontal	96.32	-	*
5745(Av)		85.20	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5825 (Pk)	Vertical	101.24	-	*
5825(Av)		89.35	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				
5825 (Pk)	Horizontal	95.27	-	*
5825(Av)		84.30	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				

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MCS9:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	63.57	74	-10.43
5150(Av)		41.25	54	-12.75
5190 (Pk)		101.26	-	*
5190 (Av)		88.03	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5150(Pk)	Horizontal	60.23	74	-13.77
5150(Av)		37.81	54	-16.19
5190 (Pk)		97.26	-	*
5190 (Av)		83.94	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5230 (Pk)	Vertical	101.34	-	*
5230 (Av)		88.24	-	*
5350(Pk)		47.48	74	-26.52
5350(Av)		32.35	54	-21.65
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5230 (Pk)	Horizontal	97.34	-	*
5230 (Av)		84.31	-	*
5350(Pk)		45.00	74	-29.00
5350(Av)		30.17	54	-23.83
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5755 (Pk)	Vertical	97.96	-	*
5755(Av)		85.31	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5755 (Pk)	Horizontal	95.22	-	*
5755(Av)		81.25	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5795 (Pk)	Vertical	98.71	-	*
5795(Av)		85.06	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		
5795 (Pk)	Horizontal	94.45	-	*
5795(Av)		80.55	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		

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ac mode: VHT80_MIMO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350(Pk)	Vertical	59.13	74	-14.87
5350(Av)		38.50	54	-15.50
5210 (Pk)		99.71	-	*
5210 (Av)		83.41	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5350(Pk)	Horizontal	52.44	74	-21.56
5350(Av)		34.26	54	-19.74
5210 (Pk)		94.97	-	*
5210 (Av)		78.58	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5775 (Pk)	Vertical	98.62	-	*
5775 (Av)		81.61	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				
5775 (Pk)	Horizontal	94.27	-	*
5775 (Av)		77.90	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				

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n mode: VHT20_SISO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	57.65	74	-16.35
5150(Av)		38.11	54	-15.89
5180 (Pk)		105.54	-	*
5180 (Av)		91.92	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5150(Pk)	Horizontal	51.15	74	-22.85
5150(Av)		33.48	54	-20.52
5180 (Pk)		99.87	-	*
5180 (Av)		86.17	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5240 (Pk)	Vertical	105.01	-	*
5240 (Av)		91.62	-	*
5350(Pk)		46.12	74	-27.88
5350(Av)		33.91	54	-20.09
10480 (Pk)		No Harmonics found		
10480 (Av)				
5240 (Pk)	Horizontal	99.51	-	*
5240 (Av)		86.50	-	*
5350(Pk)		43.44	74	-30.56
5350(Av)		31.45	54	-22.55
10480 (Pk)		No Harmonics found		
10480 (Av)				
5745 (Pk)	Vertical	102.42	-	*
5745(Av)		89.41	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5745 (Pk)	Horizontal	96.60	-	*
5745(Av)		82.80	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5825 (Pk)	Vertical	103.40	-	*
5825(Av)		90.05	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				
5825 (Pk)	Horizontal	96.22	-	*
5825(Av)		82.39	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				

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n mode: VHT40_SISO
MCS0:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	60.17	74	-13.83
5150(Av)		41.88	54	-12.12
5190 (Pk)		100.99	-	*
5190 (Av)		90.30	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5150(Pk)	Horizontal	54.83	74	-19.17
5150(Av)		36.44	54	-17.56
5190 (Pk)		94.67	-	*
5190 (Av)		84.28	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5230 (Pk)	Vertical	100.48	-	*
5230 (Av)		90.46	-	*
5350(Pk)		49.47	74	-24.53
5350(Av)		34.15	54	-19.85
10460 (Pk)		No Harmonics found		
10460 (Av)				
5230 (Pk)	Horizontal	95.14	-	*
5230 (Av)		85.41	-	*
5350(Pk)		41.46	74	-32.54
5350(Av)		30.91	54	-23.09
10460 (Pk)		No Harmonics found		
10460 (Av)				
5755 (Pk)	Vertical	98.79	-	*
5755(Av)		88.22	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5755 (Pk)	Horizontal	92.51	-	*
5755(Av)		81.78	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5795 (Pk)	Vertical	99.56	-	*
5795(Av)		88.48	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				
5795 (Pk)	Horizontal	91.72	-	*
5795(Av)		81.41	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				

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A mode: 54 Mbps

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	57.52	74	-16.48
5150(Av)		36.51	54	-17.49
5180 (Pk)		105.08	-	*
5180 (Av)		91.42	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5150(Pk)	Horizontal	61.86	74	-12.14
5150(Av)		33.52	54	-20.48
5180 (Pk)		100.12	-	*
5180 (Av)		86.47	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)				
5240 (Pk)	Vertical	104.52	-	*
5240 (Av)		91.02	-	*
5350(Pk)		46.63	74	-27.37
5350(Av)		33.06	54	-20.94
10480 (Pk)		No Harmonics found		
10480 (Av)				
5240 (Pk)	Horizontal	99.29	-	*
5240 (Av)		85.86	-	*
5350(Pk)		42.35	74	-31.65
5350(Av)		30.38	54	-23.62
10480 (Pk)		No Harmonics found		
10480 (Av)				
5745 (Pk)	Vertical	101.07	-	*
5745(Av)		87.35	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5745 (Pk)	Horizontal	99.10	-	*
5745(Av)		85.42	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)				
5825 (Pk)	Vertical	100.87	-	*
5825(Av)		87.14	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				
5825 (Pk)	Horizontal	99.33	-	*
5825(Av)		85.55	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)				

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ac mode: VHT20_MIMO
MCS8:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	62.37	74	-11.63
5150(Av)		40.75	54	-13.25
5180 (Pk)		108.76	-	*
5180 (Av)		94.07	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	54.96	74	-19.04
5150(Av)		34.98	54	-19.02
5180 (Pk)		100.62	-	*
5180 (Av)		85.87	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	102.76	-	*
5240 (Av)		87.91	-	*
5350(Pk)		45.20	74	-28.80
5350(Av)		31.18	54	-22.82
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	99.65	-	*
5240 (Av)		85.92	-	*
5350(Pk)		42.85	74	-31.15
5350(Av)		30.49	54	-23.51
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	103.80	-	*
5745(Av)		88.78	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	96.87	-	*
5745(Av)		82.56	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	102.49	-	*
5825(Av)		87.75	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	97.63	-	*
5825(Av)		83.50	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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ac mode: VHT40_MIMO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	63.42	74	-10.58
5150(Av)		42.60	54	-11.40
5190 (Pk)		106.85	-	*
5190 (Av)		90.06	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5150(Pk)	Horizontal	59.07	74	-14.93
5150(Av)		36.75	54	-17.25
5190 (Pk)		97.39	-	*
5190 (Av)		82.08	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)				
5230 (Pk)	Vertical	104.91	-	*
5230 (Av)		88.39	-	*
5350(Pk)		57.04	74	-16.96
5350(Av)		35.34	54	-18.66
10460 (Pk)		No Harmonics found		
10460 (Av)				
5230 (Pk)	Horizontal	96.29	-	*
5230 (Av)		80.47	-	*
5350(Pk)		50.75	74	-23.25
5350(Av)		31.85	54	-22.15
10460 (Pk)		No Harmonics found		
10460 (Av)				
5755 (Pk)	Vertical	100.84	-	*
5755(Av)		84.69	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5755 (Pk)	Horizontal	94.23	-	*
5755(Av)		78.69	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)				
5795 (Pk)	Vertical	100.3	-	*
5795(Av)		84.18	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				
5795 (Pk)	Horizontal	95.79	-	*
5795(Av)		79.54	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)				

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ac mode: VHT80_MIMO
MCS9:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350(Pk)	Vertical	62.81	74	-11.19
5350(Av)		42.76	54	-11.24
5210 (Pk)		101.39	-	*
5210 (Av)		85.35	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5350(Pk)	Horizontal	54.36	74	-19.64
5350(Av)		35.45	54	-18.55
5210 (Pk)		93.28	-	*
5210 (Av)		77.84	-	*
10420 (Pk)		No Harmonics found		
10420 (Av)				
5775 (Pk)	Vertical	98.91	-	*
5775 (Av)		82.87	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				
5775 (Pk)	Horizontal	93.54	-	*
5775 (Av)		77.58	-	*
11550 (Pk)		No Harmonics found		
11550 (Av)				

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n mode: HT20_MIMO

MCS11:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	61.48	74	-12.52
5150(Av)		40.63	54	-13.37
5180 (Pk)		108.84	-	*
5180 (Av)		95.09	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5150(Pk)	Horizontal	55.61	74	-18.39
5150(Av)		33.20	54	-20.80
5180 (Pk)		99.45	-	*
5180 (Av)		85.72	-	*
10360 (Pk)		No Harmonics found		
10360 (Av)		No Harmonics found		
5240 (Pk)	Vertical	106.57	-	*
5240 (Av)		93.19	-	*
5350(Pk)		45.40	74	-28.60
5350(Av)		32.95	54	-21.05
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5240 (Pk)	Horizontal	99.28	-	*
5240 (Av)		85.98	-	*
5350(Pk)		51.98	74	-22.02
5350(Av)		30.70	54	-23.30
10480 (Pk)		No Harmonics found		
10480 (Av)		No Harmonics found		
5745 (Pk)	Vertical	104.36	-	*
5745(Av)		90.68	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5745 (Pk)	Horizontal	97.72	-	*
5745(Av)		84.57	-	*
11490 (Pk)		No Harmonics found		
11490 (Av)		No Harmonics found		
5825 (Pk)	Vertical	103.4	-	*
5825(Av)		89.64	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		
5825 (Pk)	Horizontal	98.31	-	*
5825(Av)		84.78	-	*
11650 (Pk)		No Harmonics found		
11650 (Av)		No Harmonics found		

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n mode: HT40_MIMO

MCS11:

Frequency (MHz)	Polarization	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150(Pk)	Vertical	62.75	74	-11.25
5150(Av)		43.96	54	-10.04
5190 (Pk)		104.72	-	*
5190 (Av)		91.11	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5150(Pk)	Horizontal	54.02	74	-19.98
5150(Av)		36.65	54	-17.35
5190 (Pk)		97.41	-	*
5190 (Av)		83.50	-	*
10380 (Pk)		No Harmonics found		
10380 (Av)		No Harmonics found		
5230 (Pk)	Vertical	104.27	-	*
5230 (Av)		90.49	-	*
5350(Pk)		55.62	74	-18.38
5350(Av)		34.60	54	-19.40
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5230 (Pk)	Horizontal	96.23	-	*
5230 (Av)		82.11	-	*
5350(Pk)		50.72	74	-23.28
5350(Av)		31.13	54	-22.87
10460 (Pk)		No Harmonics found		
10460 (Av)		No Harmonics found		
5755 (Pk)	Vertical	100.24	-	*
5755(Av)		86.45	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5755 (Pk)	Horizontal	95.20	-	*
5755(Av)		80.87	-	*
11510 (Pk)		No Harmonics found		
11510 (Av)		No Harmonics found		
5795 (Pk)	Vertical	99.8	-	*
5795(Av)		86.2	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		
5795 (Pk)	Horizontal	95.95	-	*
5795(Av)		80.91	-	*
11590 (Pk)		No Harmonics found		
11590 (Av)		No Harmonics found		

* - -> Fundamental Frequency

P-->Peak detector

AV-->Average Detector

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Conducted Emission Test on A.C. Power Line

Result

Pass

Test Specification : FCC Part 15 Section 15.207
Test Method : ANSI C63.10-2013
Testing Location : Screened room
Measurement Bandwidth : 9kHz
Frequency Range : 150kHz – 30MHz
Supply Voltage : 110VAC,60Hz

Limit of section 15.207

Frequency of emission	QP Limit	AV Limit
(MHz)	(dB μ V)	(dB μ V/m)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency

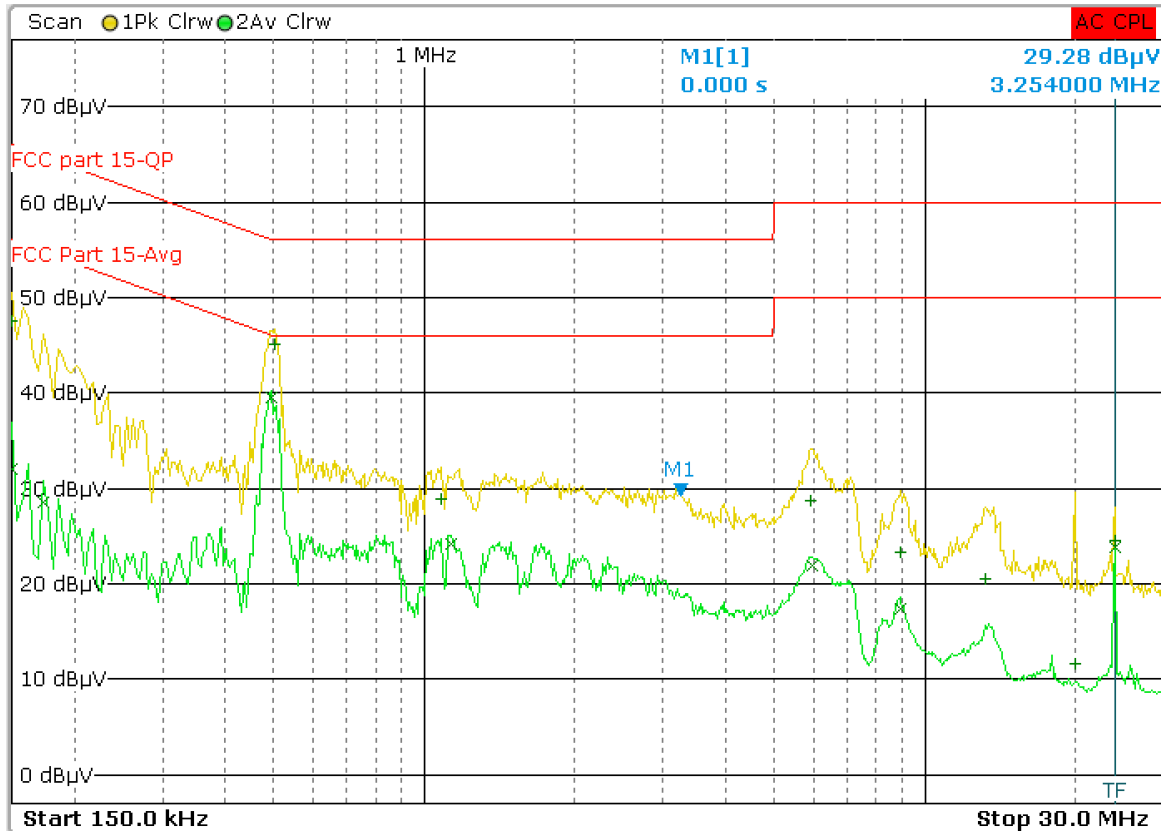
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Test Result: LINE Graphs and Tables

110v AC , 60Hz



Line Graph

Trace	Frequency	Level (dBμV)	Phase Detector	Delta Limit/dB
2	494.000000000 kHz	39.59	Average	-6.51
1	502.000000000 kHz	45.03	Quasi Peak	-10.97
1	150.000000000 kHz	47.51	Quasi Peak	-18.49
2	1.134000000 MHz	24.19	Average	-21.81
2	150.000000000 kHz	31.97	Average	-24.03
2	24.026000000 MHz	23.82	Average	-26.18
2	174.000000000 kHz	28.57	Average	-26.20
1	1.082000000 MHz	28.93	Quasi Peak	-27.07
2	5.982000000 MHz	22.00	Average	-28.00
1	5.930000000 MHz	28.67	Quasi Peak	-31.33
2	8.922000000 MHz	17.32	Average	-32.68
1	24.026000000 MHz	24.57	Quasi Peak	-35.43
1	8.958000000 MHz	23.30	Quasi Peak	-36.70
1	13.226000000 MHz	20.53	Quasi Peak	-39.47
1	20.038000000 MHz	11.62	Quasi Peak	-48.38

Line Table

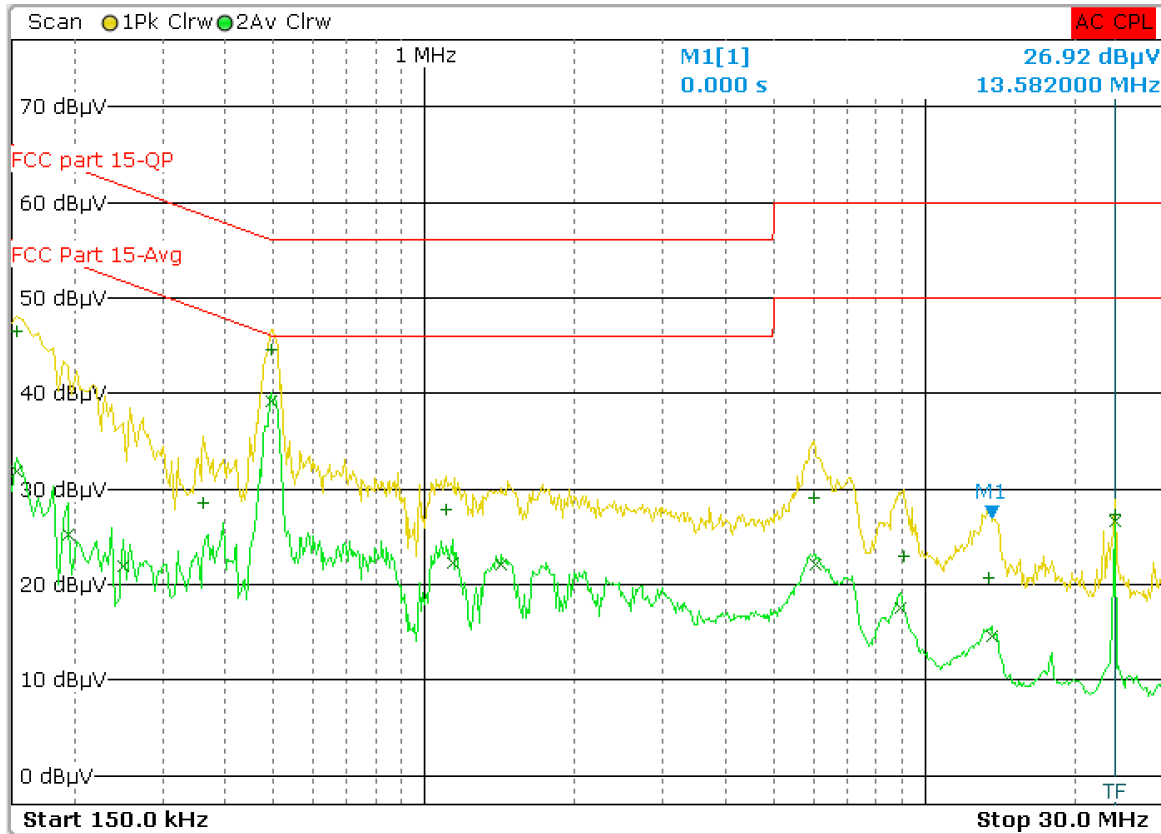
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Test Result: Neutral Graphs and Tables

110v AC , 60Hz



Neutral Graph

Trace	Frequency	Level (dBµV)	Phase Detector	Delta Limit/dB
2	494.000000000 kHz	39.1	Average	-7
1	494.000000000 kHz	44.65	Quasi Peak	-11.45
1	154.000000000 kHz	46.55	Quasi Peak	-19.23
2	24.026000000 MHz	26.59	Average	-23.41
2	1.138000000 MHz	22.28	Average	-23.72
2	1.430000000 MHz	22.17	Average	-23.83
2	154.000000000 kHz	31.84	Average	-23.94
2	6.046000000 MHz	22.17	Average	-27.83
1	1.110000000 MHz	27.78	Quasi Peak	-28.22
2	194.000000000 kHz	25.25	Average	-28.61
2	250.000000000 kHz	21.91	Average	-29.85
1	362.000000000 kHz	28.54	Quasi Peak	-30.14
1	5.990000000 MHz	29.07	Quasi Peak	-30.93
2	8.950000000 MHz	17.57	Average	-32.43
1	24.026000000 MHz	27.26	Quasi Peak	-32.74
2	13.582000000 MHz	14.54	Average	-35.46
1	9.062000000 MHz	23.05	Quasi Peak	-36.95
1	13.398000000 MHz	20.73	Quasi Peak	-39.27

Neutral Table

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Power level settings in QRTC tool for the testing:

Band : UNII 1		Channels	
Mode	Data Rate(Mbps)	Low	High
802.11 a	6	15	15
	24	15	15
	54	15	15
802.11 ac_VHT20_SISO	MCS0	15	15
	MCS5	15	15
	MCS9	15	15
802.11 ac_VHT40_SISO	MCS0	15	15
	MCS5	15	15
	MCS9	15	15
802.11 ac_VHT80_SISO	MCS0	15	15
	MCS5	15	15
	MCS9	15	15
802.11 ac_VHT20_MIMO	MCS0	15	15
	MCS5	15	15
	MCS9	15	15
802.11 ac_VHT40_MIMO	MCS0	14	14
	MCS5	14	14
	MCS9	14	14
802.11 ac_VHT80_MIMO	MCS0	14	14
	MCS5	14	14
	MCS9	14	14
802.11 n_HT20_SISO	MCS0	14	14
	MCS4	14	14
	MCS7	14	14
802.11 n_HT40_SISO	MCS0	14	14
	MCS4	16	16
	MCS7	16	16
802.11 n_HT20_MIMO	MCS8	14	14
	MCS11	14	14
	MCS15	14	14
802.11 n_HT40_MIMO	MCS8	14	14
	MCS11	14	14
	MCS15	14	14

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Band UNII 3		Channels	
Mode	Data Rate(Mbps)	Low	High
802.11 a	6	13	13
	24	13	13
	54	13	13
802.11 ac_VHT20_SISO	MCS0	12	12
	MCS5	12	12
	MCS9	12	12
802.11 ac_VHT40_SISO	MCS0	12	12
	MCS5	12	12
	MCS9	12	12
802.11 ac_VHT80_SISO	MCS0	14	14
	MCS5	14	14
	MCS9	14	14
802.11 ac_VHT20_MIMO	MCS0	12	12
	MCS5	12	12
	MCS9	12	12
802.11 ac_VHT40_MIMO	MCS0	12	12
	MCS5	12	12
	MCS9	12	12
802.11 ac_VHT80_MIMO	MCS0	14	14
	MCS5	14	14
	MCS9	14	14
802.11 n_HT20_SISO	MCS0	14	12
	MCS4	12	12
	MCS7	12	12
802.11 n_HT40_SISO	MCS0	12	12
	MCS4	14	14
	MCS7	16	16
802.11 n_HT20_MIMO	MCS8	14	14
	MCS11	12	12
	MCS15	12	12
802.11 n_HT40_MIMO	MCS8	12	12
	MCS11	12	12
	MCS15	12	12

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Channel Bandwidth_20MHz

Band	Channel	Centre Frequency(MHz)
UNII-1	low	5180
	High	5240
UNII-3	low	5745
	High	5825

Channel Bandwidth_40MHz

Band	Channel	Centre Frequency(MHz)
UNII-1	low	5190
	High	5230
UNII-3	low	5755
	High	5795

Channel Bandwidth_80MHz

Band	Centre Frequency (MHz)
UNII-1	5210
UNII-3	5775

*****END OF TEST REPORT*****