

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013804.D
 Acq On : 26 Nov 2019 22:27
 Operator : SY/MD
 Sample : K6056-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 27 03:13:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 27 03:09:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	329164	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	331346	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	144122	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	78423	3.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.00%
7) Chloroethane-d5	1.58	69	78172	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.14	63	441046	12.86	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	257.20%#
20) 2-Butanone-d5	3.92	46	254420	60.07	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.14%
24) Chloroform-d	4.40	84	172523	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
26) 1,2-Dichloroethane-d4	5.08	65	98435	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.10	84	362264	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.11	67	119995	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.36	98	292056	3.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.80%
43) trans-1,3-Dichloropropene-	7.66	79	37474	3.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.60%
46) 2-Hexanone-d5	8.13	63	186449	50.98	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.96%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	90851	5.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	130320	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

					Ovalue
8) Chloroethane	1.60	64	1095	0.092 ug/L #	66
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	15796	0.871 ug/L	88
12) 1,1-Dichloroethene	2.14	96	652253	41.214 ug/L #	69
17) Methyl tert-butyl Ether	2.80	73	24382	0.563 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	4540	0.254 ug/L	98
19) 1,1-Dichloroethane	3.23	63	339225	9.508 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	1037797	49.521 ug/L #	99
25) Chloroform	4.43	83	78091	2.065 ug/L	98
27) 1,2-Dichloroethane	5.18	62	7064	0.326 ug/L #	91
29) 1,1,1-Trichloroethane	4.66	97	138617	4.090 ug/L	99
31) Carbon tetrachloride	4.87	117	6744	0.226 ug/L	91
34) Trichloroethene	5.96	95	2677319	119.409 ug/L	98
35) Methylcyclohexane	6.11	83	29156	0.975 ug/L #	20
37) 1,2-Dichloropropane	6.11	63	13423	0.643 ug/L #	86
39) cis-1,3-Dichloropropene	7.03	75	2835	0.096 ug/L #	51
44) trans-1,3-Dichloropropene	7.66	75	1909	0.082 ug/L #	67
45) 1,1,2-Trichloroethane	7.88	97	4426	0.297 ug/L	87

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Response via : Initial Calibration

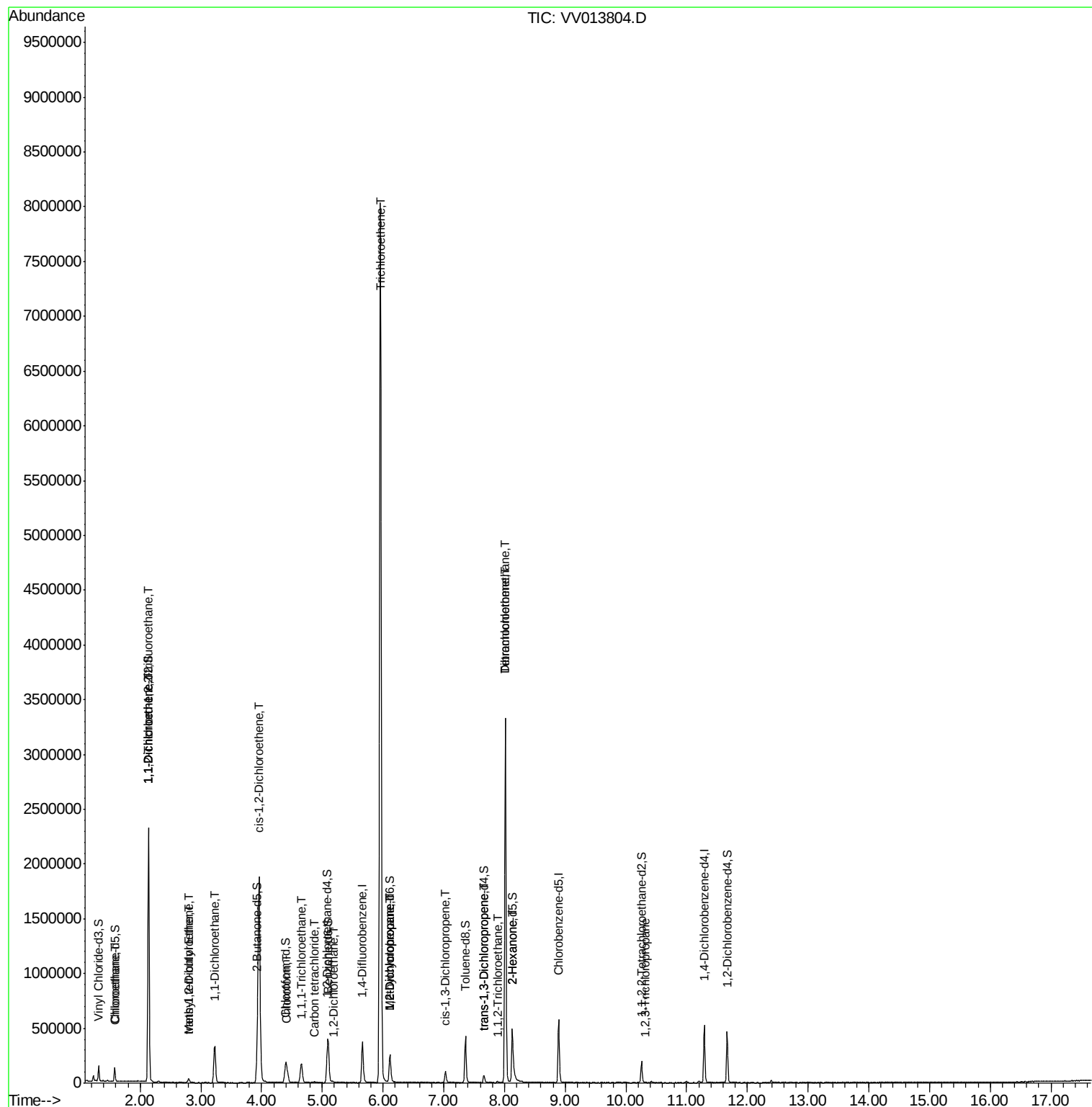
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.02	164	789478	40.550	ug/L	98
48) 2-Hexanone	8.13	43	21561	2.478	ug/L #	76
49) Dibromochloromethane	8.02	129	659384	34.534	ug/L #	10
59) 1,2,3-Trichloropropane	10.32	75	2289	0.179	ug/L #	70

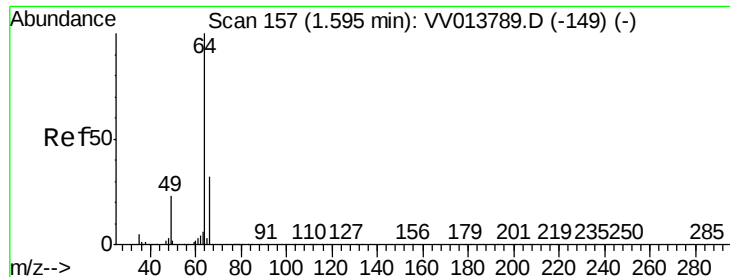
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.092 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV013804.D

Acq: 26 Nov 2019 22:27

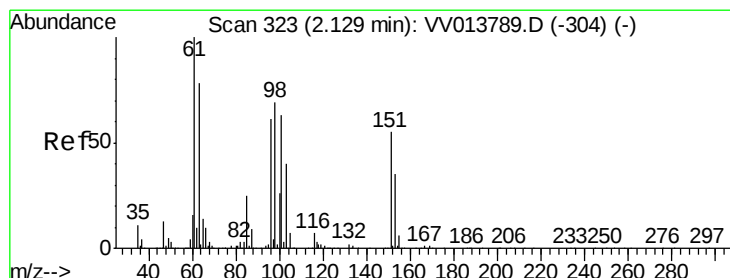
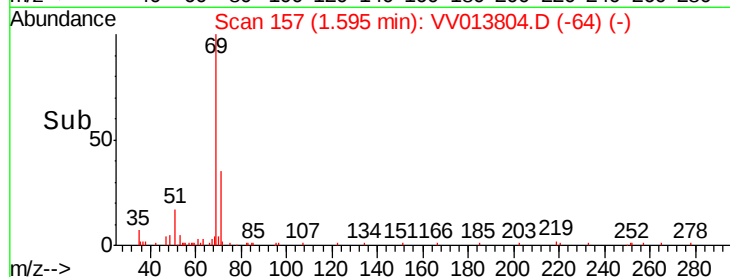
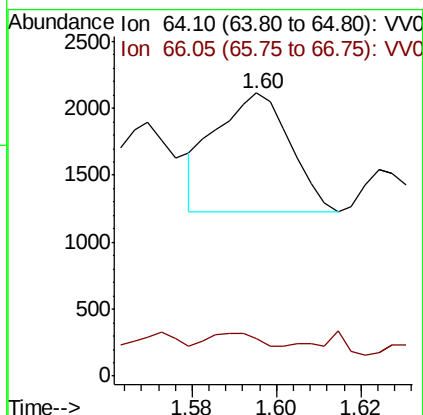
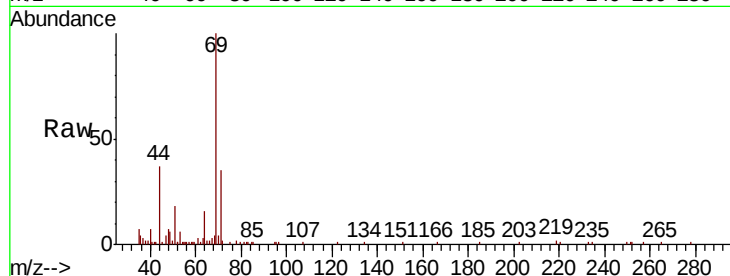
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 1095

Ion Ratio Lower Upper

64 100

66 13.2 22.6 42.0#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.871 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013804.D

Acq: 26 Nov 2019 22:27

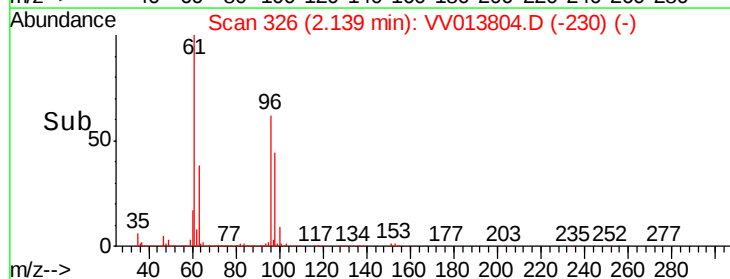
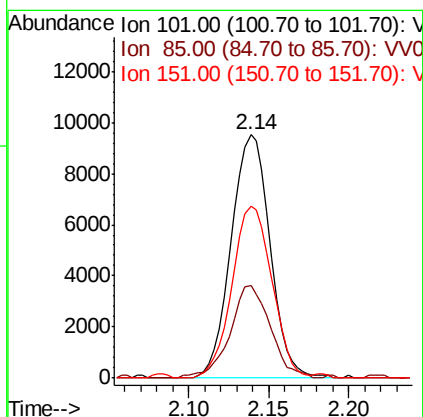
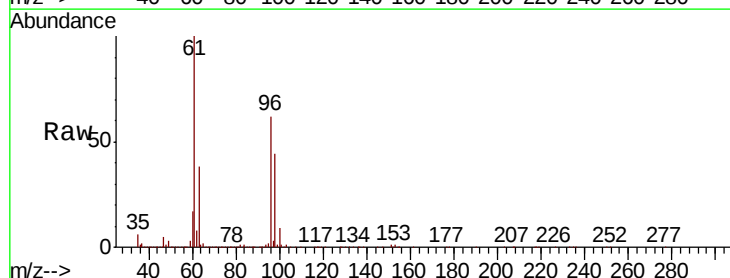
Tgt Ion: 101 Resp: 15796

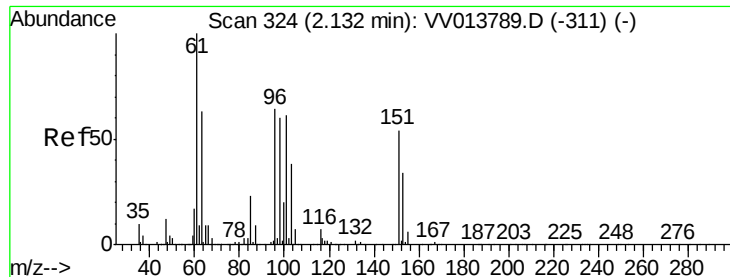
Ion Ratio Lower Upper

101 100

85 39.1 33.4 50.0

151 72.3 69.4 104.0

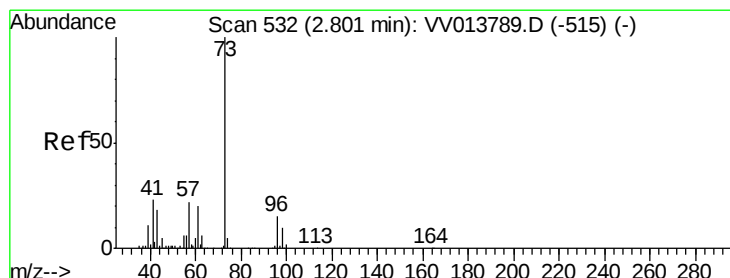
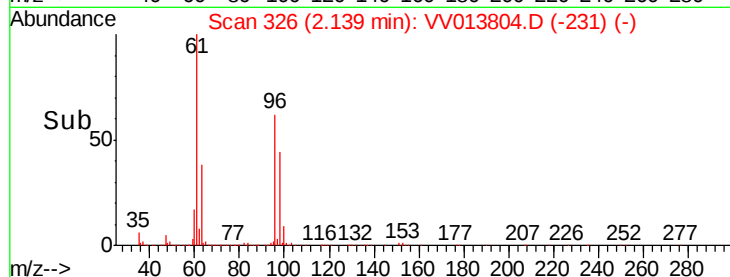
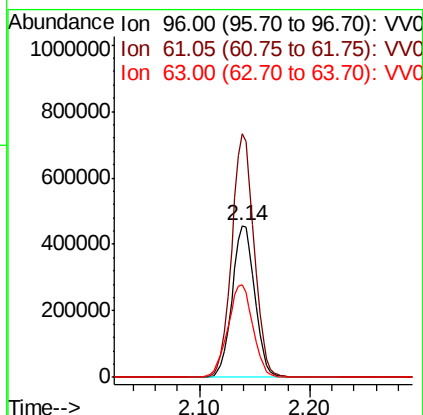
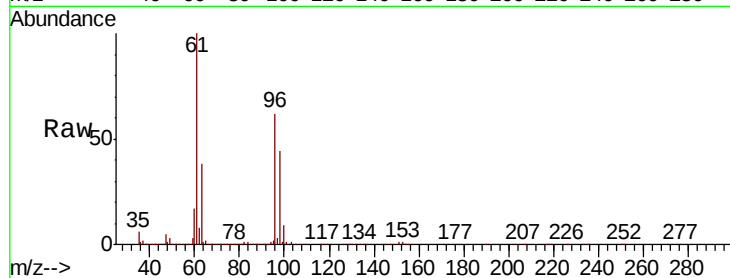




#12
 1,1-Dichloroethene
 Concen: 41.214 ug/L
 RT: 2.14 min Scan# 326
 Delta R.T. 0.01 min
 Lab File: VV013804.D
 Acq: 26 Nov 2019 22:27

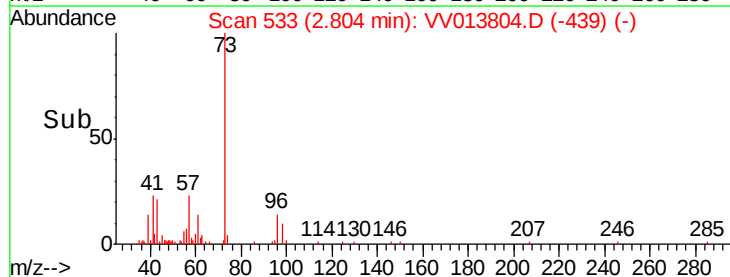
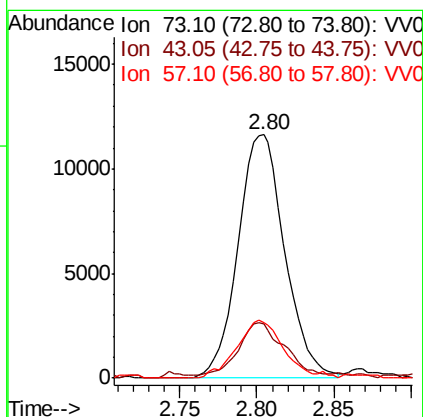
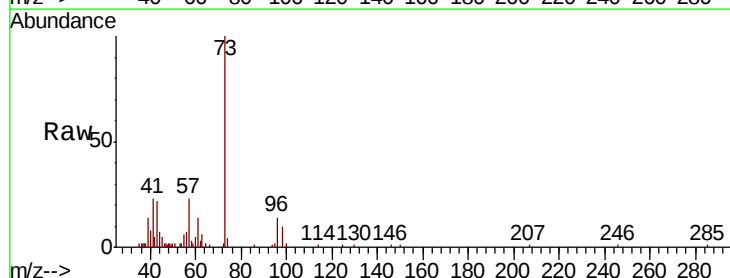
Instrument :
 MSVOA_V
 ClientSampleId :

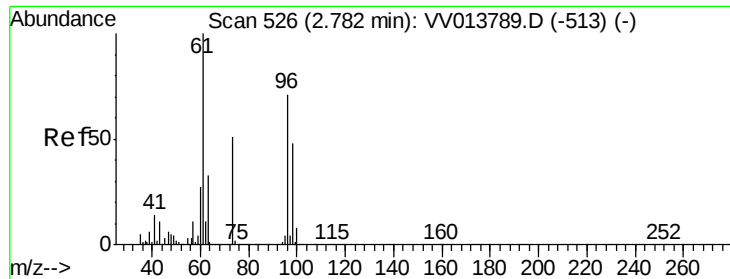
Tot Ion	Ratio	Lower	Upper
96	100		
61	160.1	116.3	215.9
63	61.0	96.7	179.7#



#17
 Methyl tert-butyl Ether
 Concen: 0.563 ug/L
 RT: 2.80 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VV013804.D
 Acq: 26 Nov 2019 22:27

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.7	15.5	23.3
57	23.4	17.5	26.3

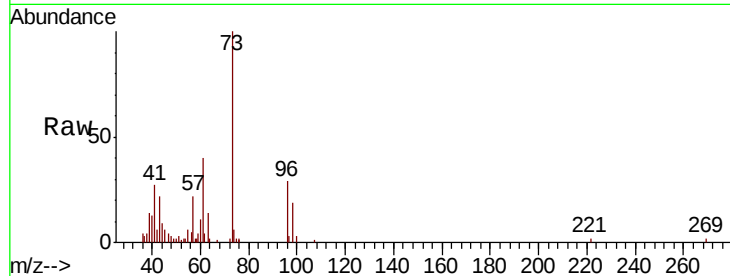




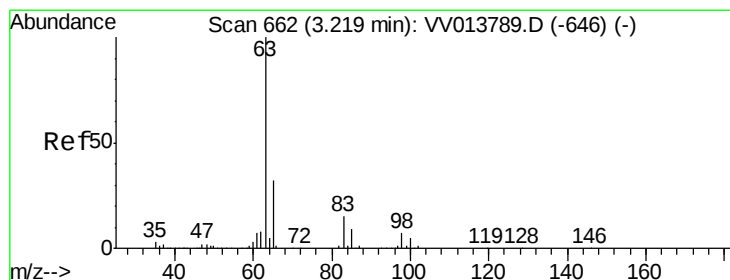
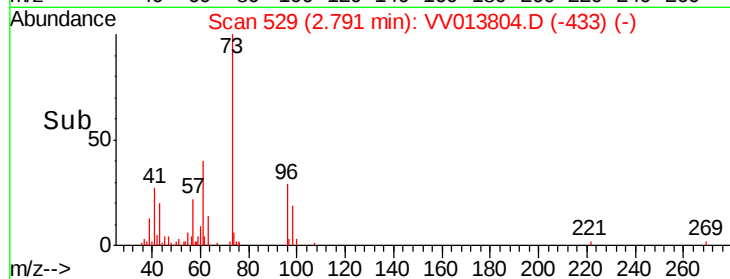
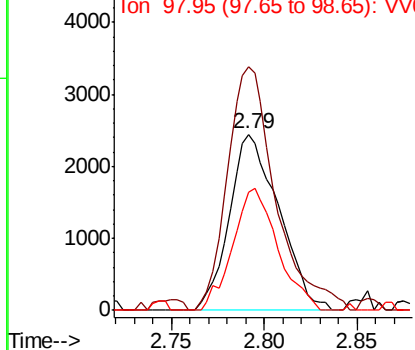
#18
trans-1,2-Dichloroethene
Concen: 0.254 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 4540
Ion Ratio Lower Upper
96 100
61 138.2 95.1 176.7
98 67.3 46.5 86.3

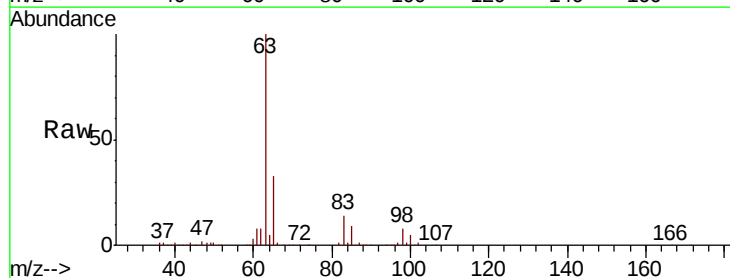


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

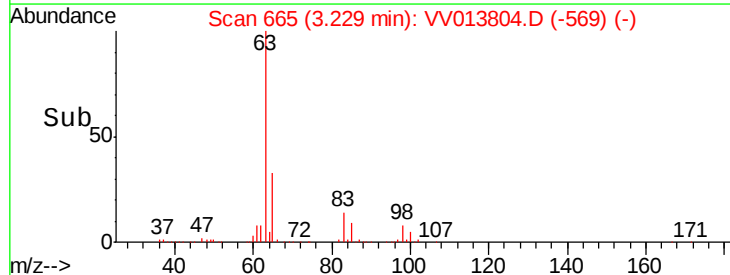
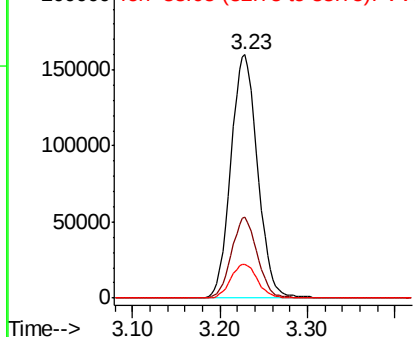


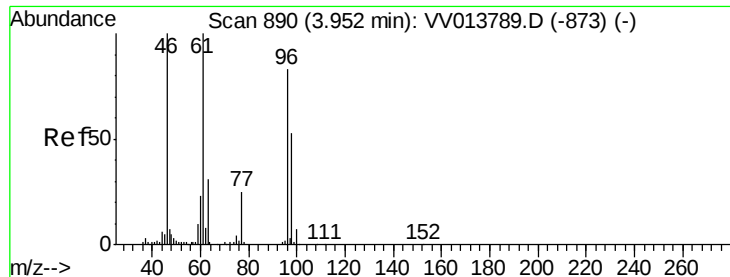
#19
1,1-Dichloroethane
Concen: 9.508 ug/L
RT: 3.23 min Scan# 665
Delta R.T. 0.01 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Tgt Ion: 63 Resp: 339225
Ion Ratio Lower Upper
63 100
65 33.1 22.7 42.1
83 13.9 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



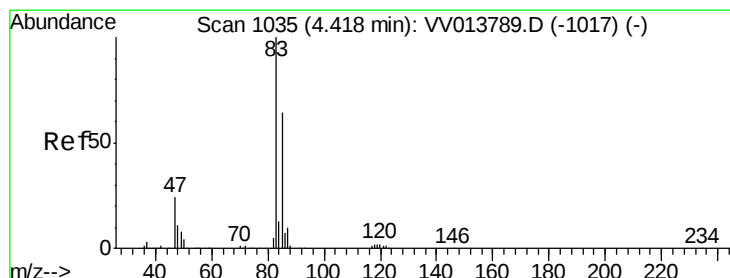
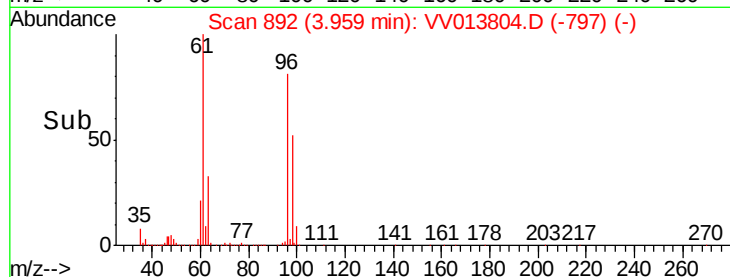
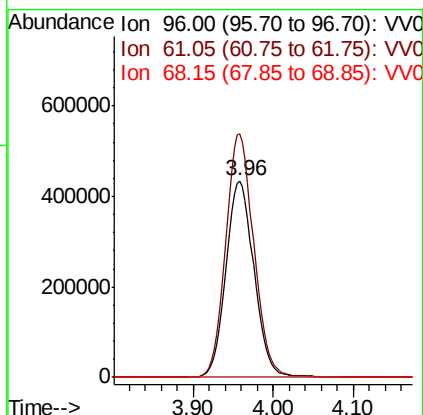
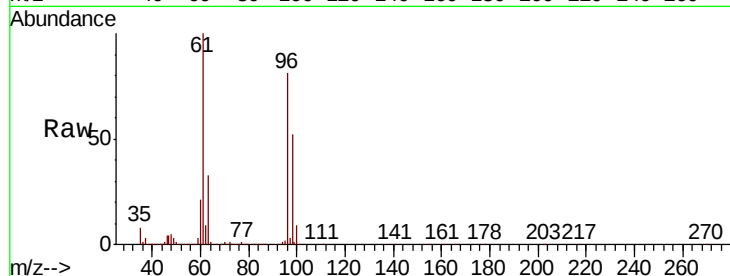


#22

cis-1,2-Dichloroethene
Concen: 49.521 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.01 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Instrument :
MSVOA_V
ClientSampleId :

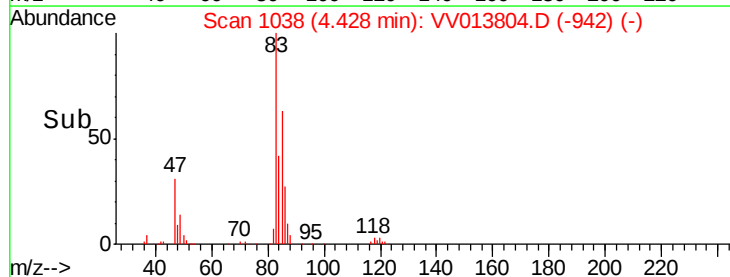
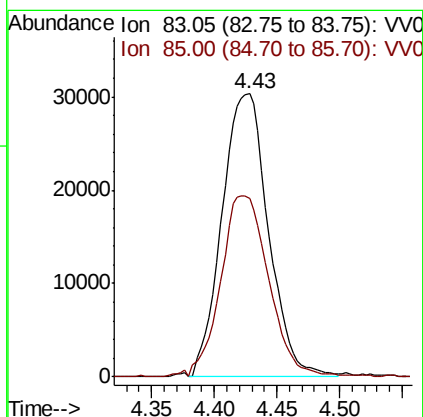
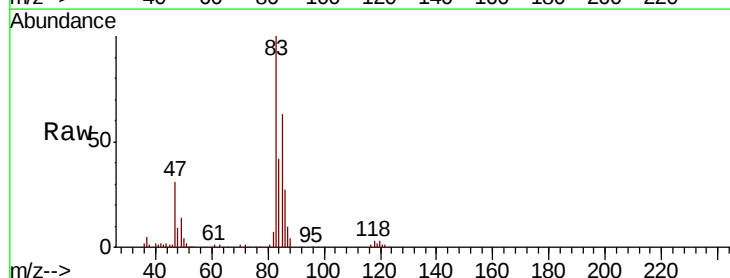
Tot Ion: 96 Resp: 1037797
Ion Ratio Lower Upper
96 100
61 123.9 86.1 159.9
68 0.0 0.0 0.0#

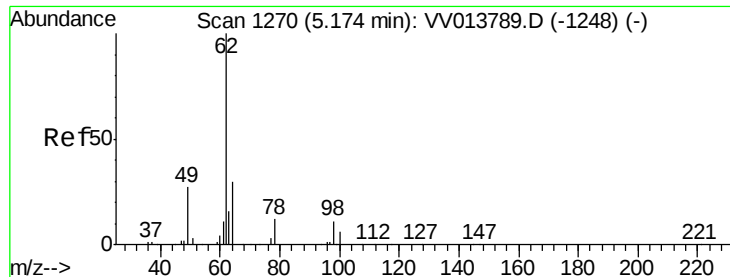


#25

Chloroform
Concen: 2.065 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Tgt Ion: 83 Resp: 78091
Ion Ratio Lower Upper
83 100
85 62.9 45.1 83.7

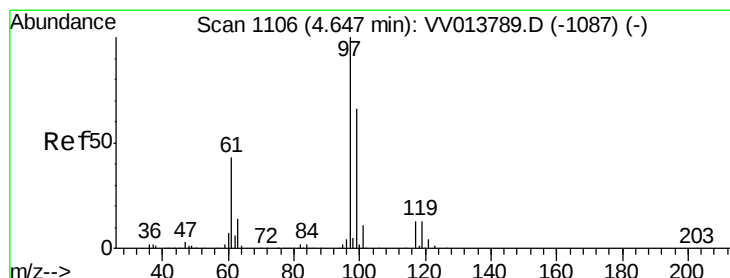
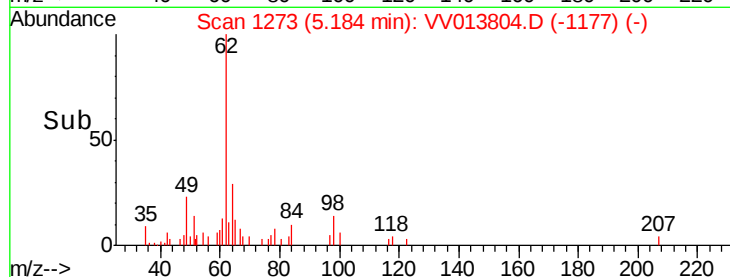
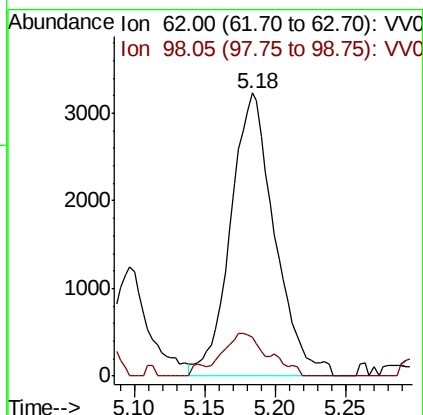
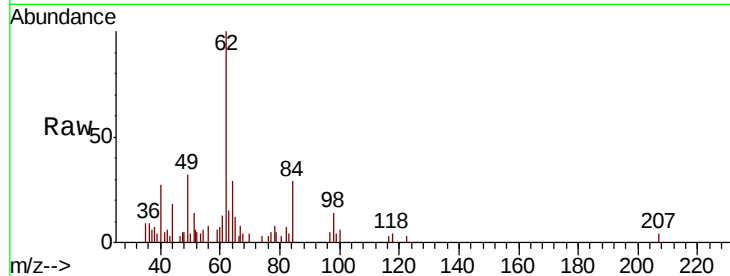




#27
 1,2-Dichloroethane
 Concen: 0.326 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VV013804.D
 Acq: 26 Nov 2019 22:27

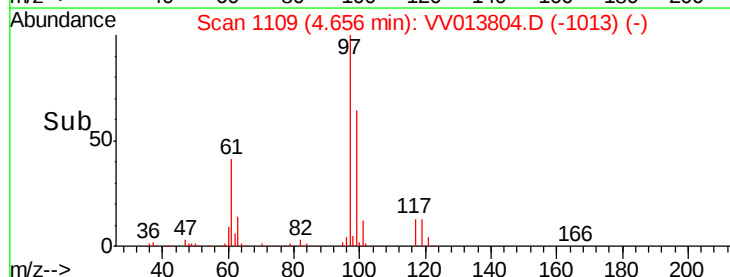
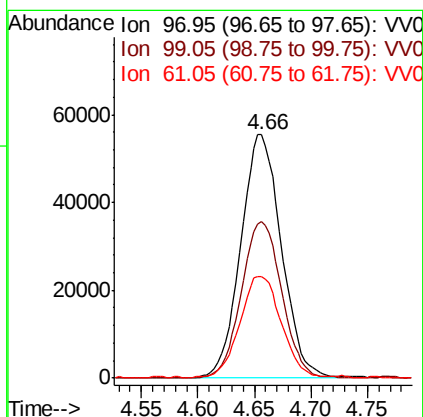
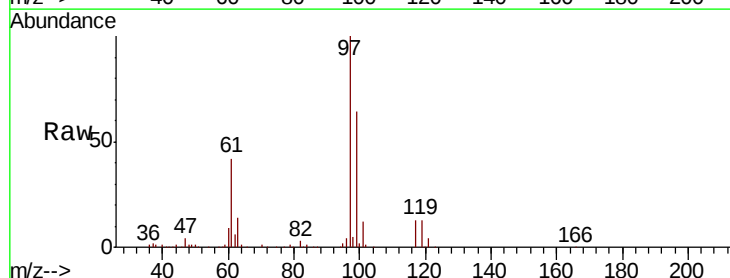
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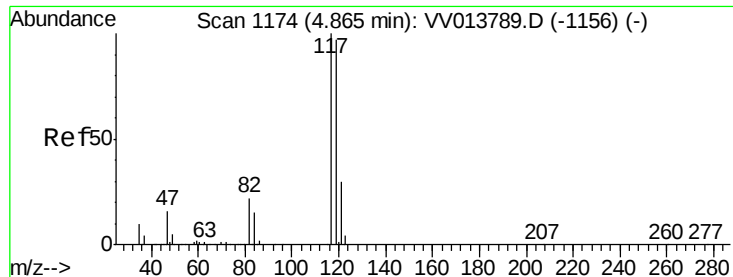
Tot Ion: 62 Resp: 7064
 Ion Ratio Lower Upper
 62 100
 98 13.7 8.2 12.2#



#29
 1,1,1-Trichloroethane
 Concen: 4.090 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VV013804.D
 Acq: 26 Nov 2019 22:27

Tgt Ion: 97 Resp: 138617
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.7 77.5
 61 42.7 35.0 52.6

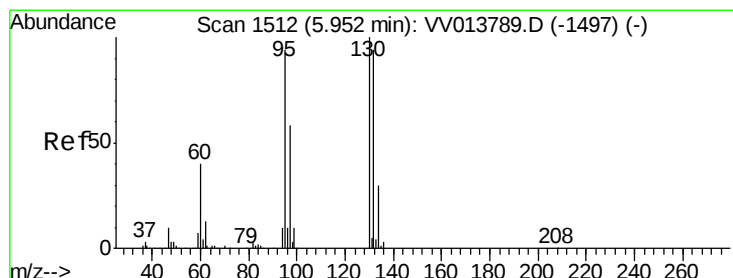
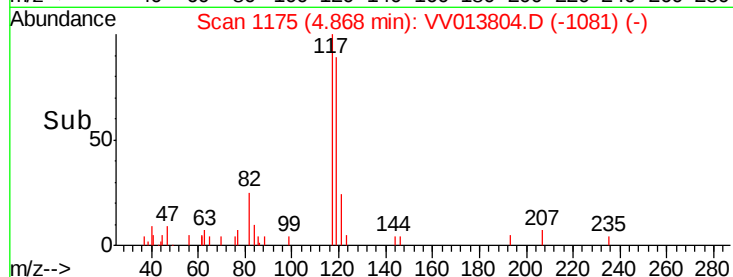
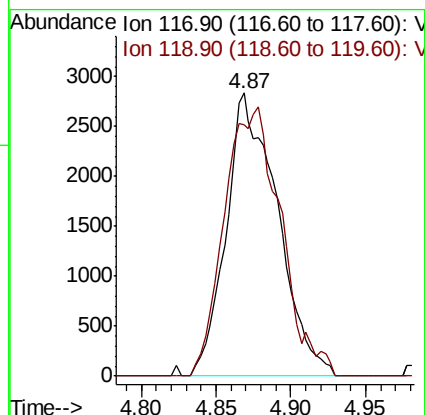
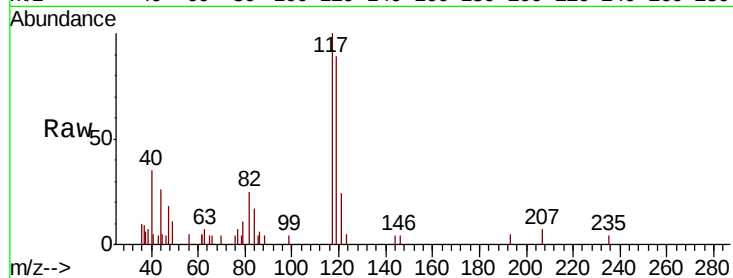




#31
Carbon tetrachloride
Concen: 0.226 ug/L
RT: 4.87 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

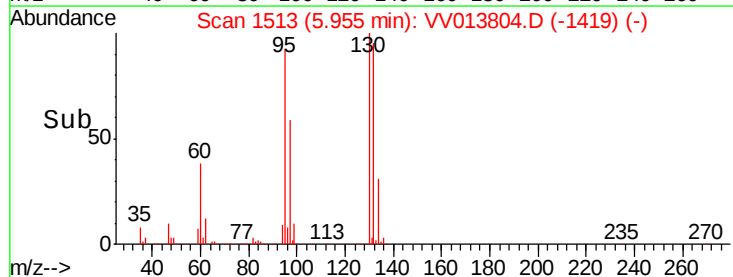
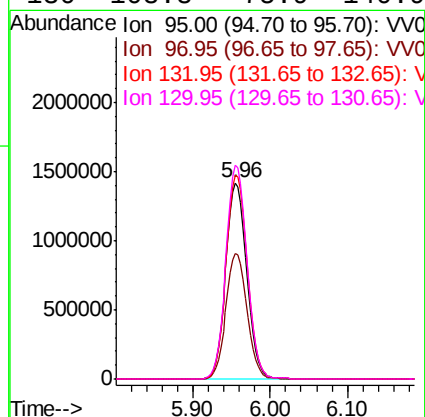
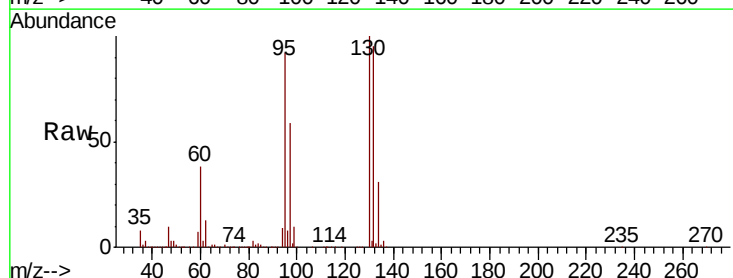
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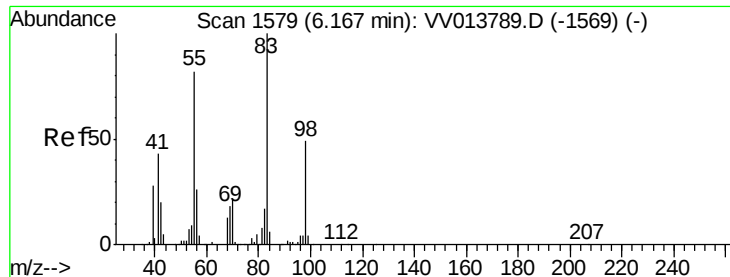
Tot Ion:117 Resp: 6744
Ion Ratio Lower Upper
117 100
119 105.1 76.8 115.2



#34
Trichloroethene
Concen: 119.409 ug/L
RT: 5.96 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Tgt Ion: 95 Resp: 2677319
Ion Ratio Lower Upper
95 100
97 64.2 45.6 84.8
132 103.8 70.5 130.9
130 108.8 75.9 140.9





#35

Methvlcvclohexane

Concen: 0.975 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.05 min

Lab File: VV013804.D

Acq: 26 Nov 2019 22:27

Instrument :
MSVOA_V
ClientSampleId :

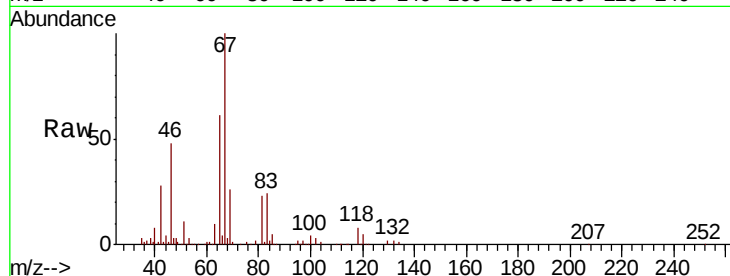
Tot Ion: 83 Resp: 29156

Ion Ratio Lower Upper

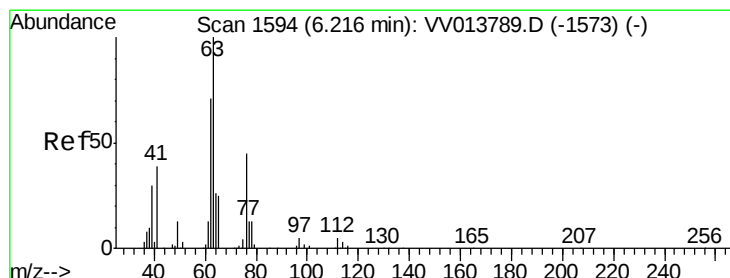
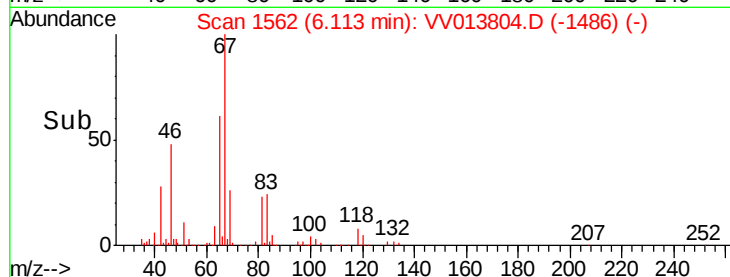
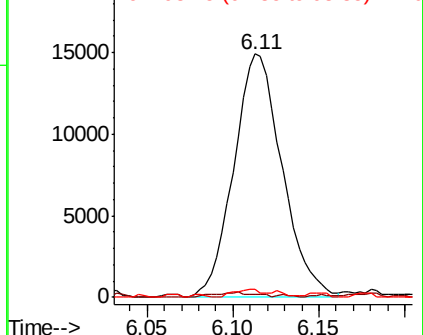
83 100

55 1.7 60.3 90.5#

98 0.0 38.1 57.1#



Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0



#37

1,2-Dichloropropane

Concen: 0.643 ug/L

RT: 6.11 min Scan# 1561

Delta R.T. -0.11 min

Lab File: VV013804.D

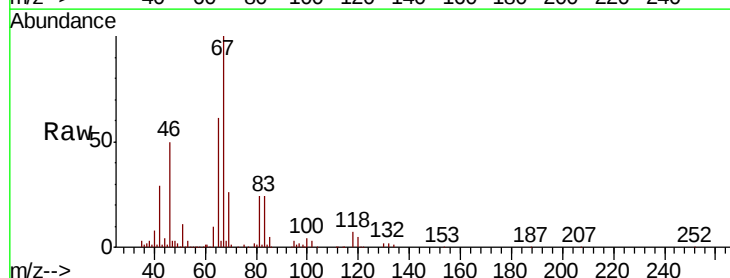
Acq: 26 Nov 2019 22:27

Tgt Ion: 63 Resp: 13423

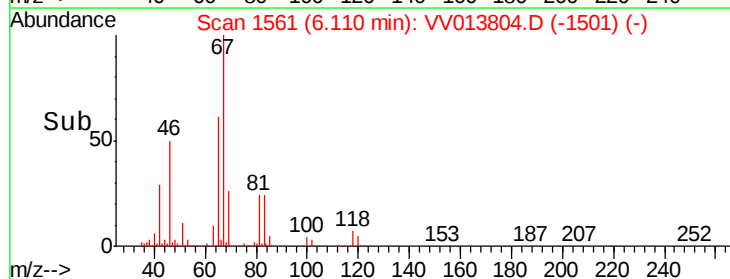
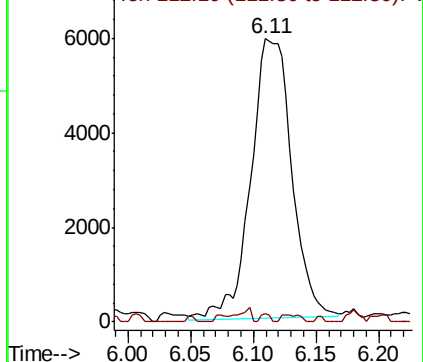
Ion Ratio Lower Upper

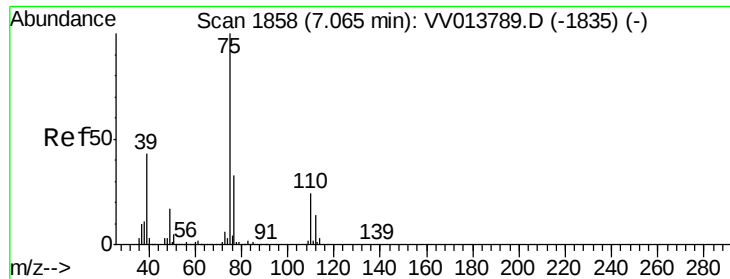
63 100

112 0.7 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V



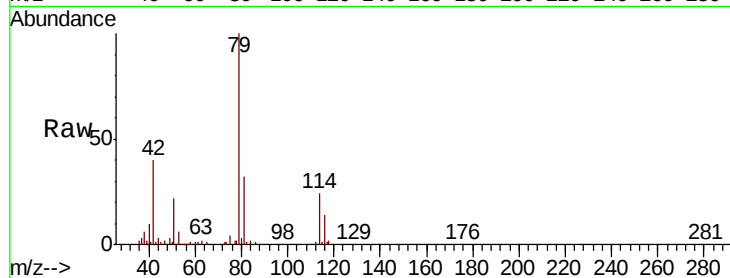


#39

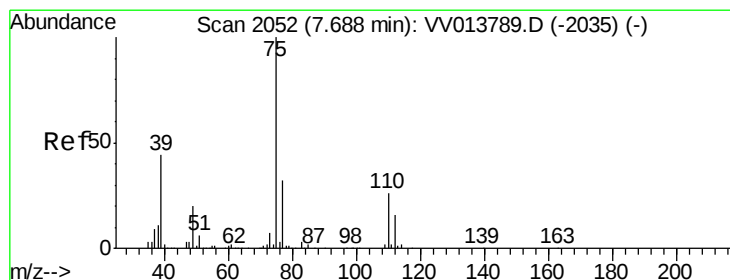
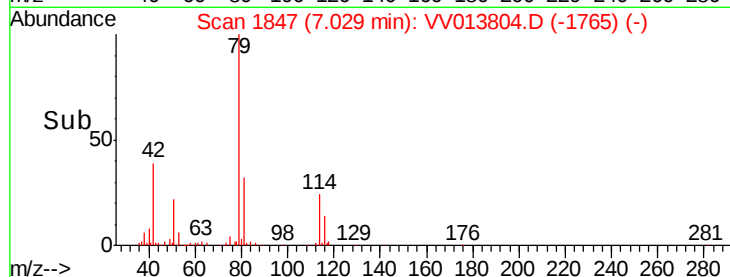
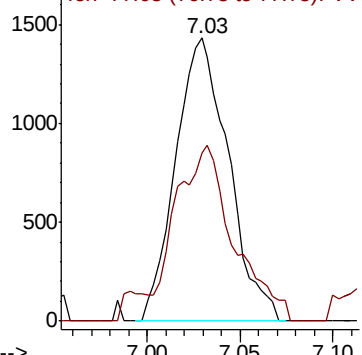
cis-1,3-Dichloropropene
Concen: 0.096 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 2835
Ion Ratio Lower Upper
75 100
77 59.6 22.5 41.9#



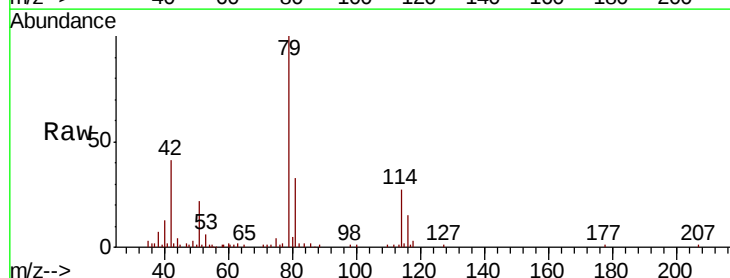
Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0



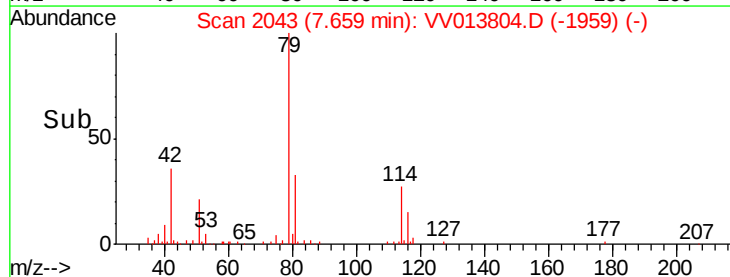
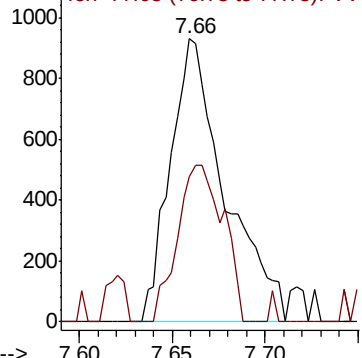
#44

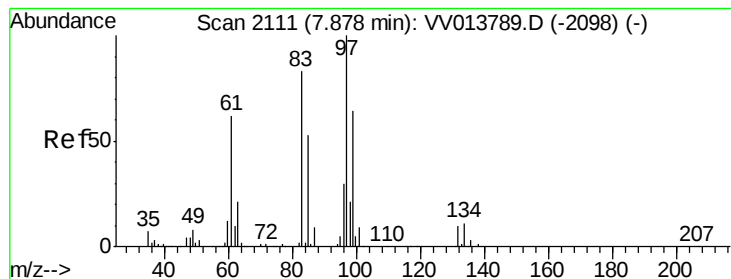
trans-1,3-Dichloropropene
Concen: 0.082 ug/L
RT: 7.66 min Scan# 2043
Delta R.T. -0.03 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Tgt Ion: 75 Resp: 1909
Ion Ratio Lower Upper
75 100
77 51.4 23.0 42.8#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0





#45

1,1,2-Trichloroethane

Concen: 0.297 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VV013804.D

Acq: 26 Nov 2019 22:27

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 97 Resp: 4426

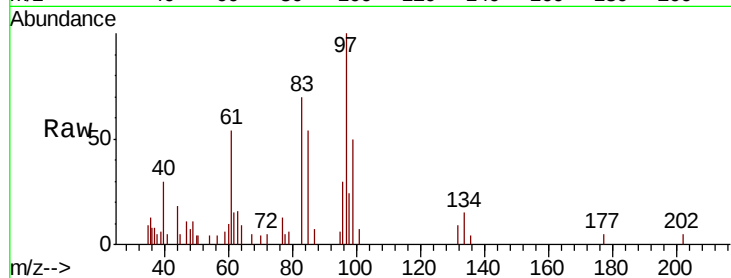
Ion Ratio Lower Upper

97 100

99 49.7 44.2 82.0

83 69.8 59.7 110.9

85 53.7 38.3 71.1

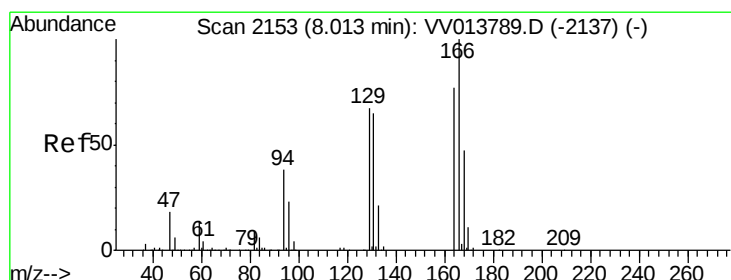
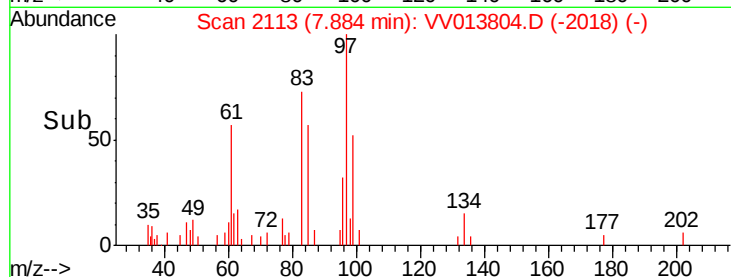
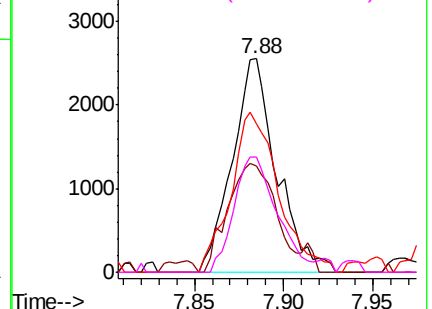


Abundance Ion 96.95 (96.65 to 97.65): VV013789.D (-2098) (-)

Ion 99.05 (98.75 to 99.75): VV013789.D (-2098) (-)

Ion 82.95 (82.65 to 83.65): VV013789.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV013789.D (-2098) (-)



#47

Tetrachloroethene

Concen: 40.550 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013804.D

Acq: 26 Nov 2019 22:27

Tgt Ion: 164 Resp: 789478

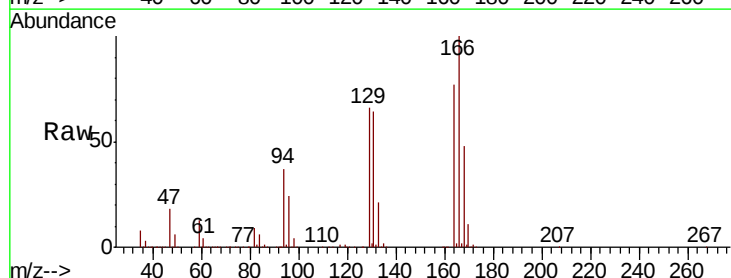
Ion Ratio Lower Upper

164 100

129 85.2 60.3 112.1

131 83.0 59.9 111.3

166 129.8 89.1 165.5

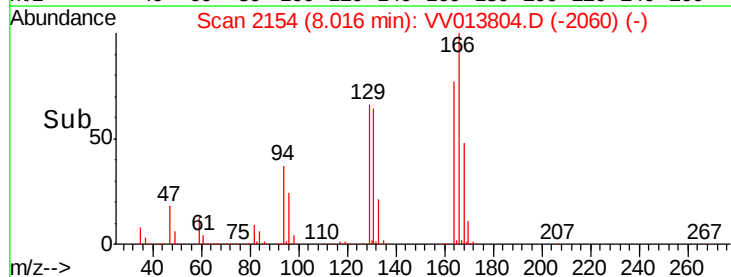
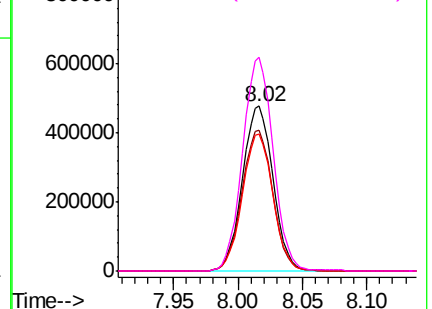


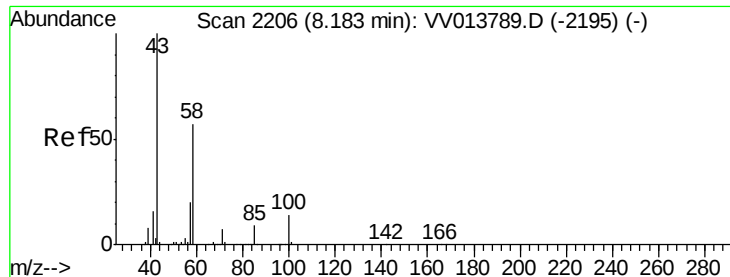
Abundance Ion 163.90 (163.60 to 164.60): VV013789.D (-2137) (-)

Ion 128.95 (128.65 to 129.65): VV013789.D (-2137) (-)

Ion 130.95 (130.65 to 131.65): VV013789.D (-2137) (-)

Ion 165.90 (165.60 to 166.60): VV013789.D (-2137) (-)

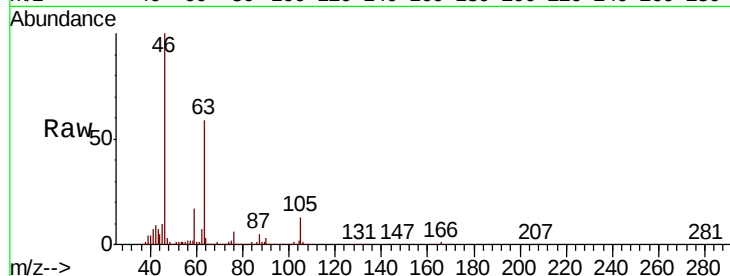




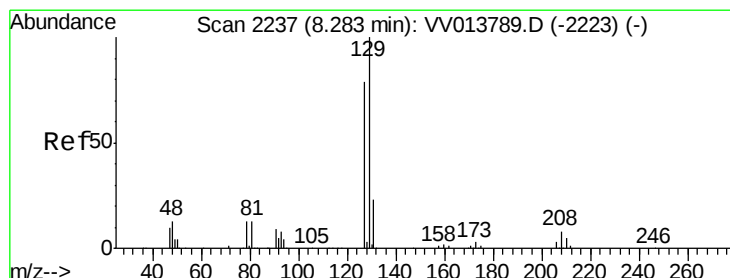
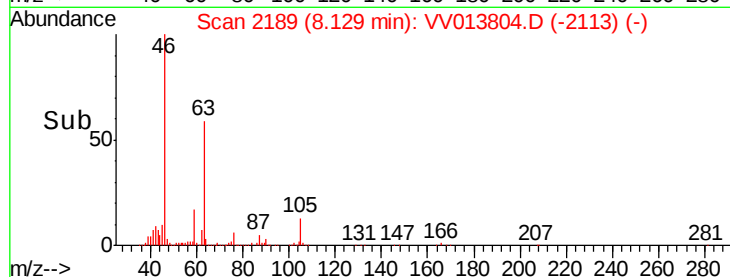
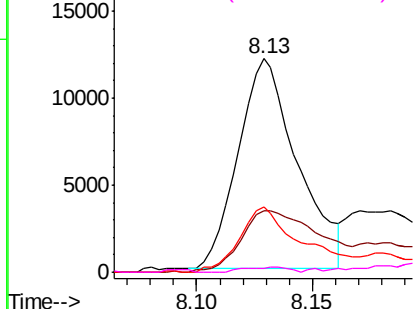
#48
2-Hexanone
Concen: 2.478 ug/L
RT: 8.13 min Scan# 2189
Delta R.T. -0.05 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.5	43.2	64.8#
57	33.3	15.4	23.2#
100	1.8	10.4	15.6#

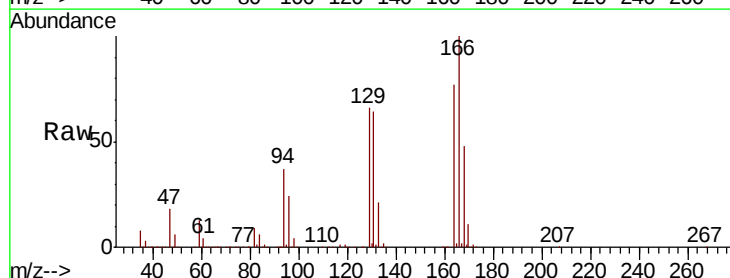


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

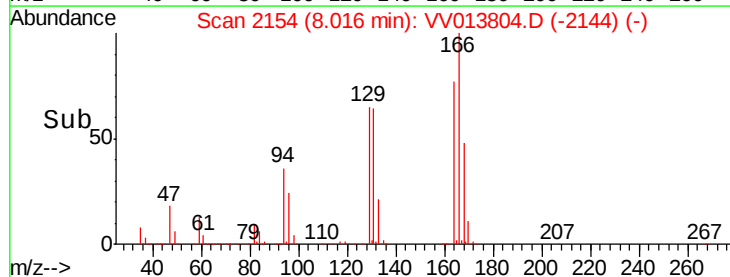
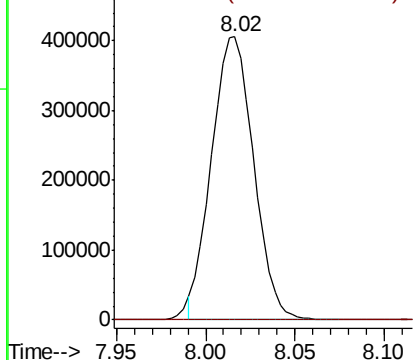


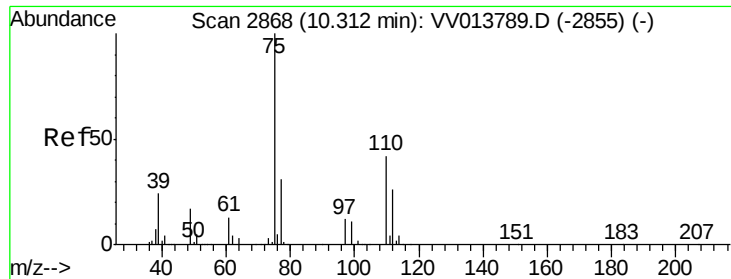
#49
Dibromochloromethane
Concen: 34.534 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV013804.D
Acq: 26 Nov 2019 22:27

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.7	103.5#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.179 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013804.D

Acq: 26 Nov 2019 22:27

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 75 Resp: 2289

Ion Ratio Lower Upper

75 100

77 48.8 25.7 38.5#

