

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102320\
 Data File : VV019089.D
 Acq On : 23 Oct 2020 13:52
 Operator : SY/MD
 Sample : L4425-06 2X
 Misc : 5.00µL/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 24 03:32:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 24 03:31:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.63	114	279935	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	272839	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	148296	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	100782	39.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.26%
7) Chloroethane-d5	1.58	69	80648	39.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.80%
11) 1,1-Dichloroethene-d2	2.11	63	157415	33.05	ug/L	-0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.10%
21) 2-Butanone-d5	3.92	46	130117	76.08	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.08%
24) Chloroform-d	4.37	84	195305	43.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.82%
26) 1,2-Dichloroethane-d4	5.05	65	140549	47.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.00%
32) Benzene-d6	5.07	84	371587	44.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.06%
36) 1,2-Dichloropropane-d6	6.09	67	118912	43.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.96%
41) Toluene-d8	7.33	98	345490	46.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.58%
43) trans-1,3-Dichloropropene-	7.64	79	64314	46.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.86%
47) 2-Hexanone-d5	8.13	63	110356	93.89	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.89%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	162574	45.19	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.38%
64) 1,2-Dichlorobenzene-d4	11.65	152	146399	47.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.14%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.11	101	1344	0.719	ug/L #	22
13) Acetone	2.20	43	163030	140.640	ug/L	98
16) Methylene chloride	2.51	84	181013	83.062	ug/L	99
19) 1,1-Dichloroethane	3.20	63	262101	65.703	ug/L	98
20) cis-1,2-Dichloroethene	3.93	96	54203	25.655	ug/L	95
23) Bromochloromethane	4.27	128	78980	73.436	ug/L	97
25) Chloroform	4.40	83	51702	13.156	ug/L	100
27) 1,2-Dichloroethane	5.15	62	185643	56.922	ug/L	100
30) 1,1,1-Trichloroethane	4.63	97	108950	32.072	ug/L	98
31) Carbon tetrachloride	4.85	117	111885	37.781	ug/L	99
34) Trichloroethene	5.93	95	65809	31.180	ug/L	95
37) 1,2-Dichloropropane	6.19	63	68799	29.920	ug/L	100
39) cis-1,3-Dichloropropene	7.01	75	4000	1.177	ug/L #	62
40) 4-Methyl-2-pentanone	7.25	43	368398	118.754	ug/L	98
44) trans-1,3-Dichloropropene	7.64	75	3176	0.942	ug/L	88
45) 1,1,2-Trichloroethane	7.86	97	131423	64.712	ug/L	98
46) Tetrachloroethene	7.99	164	108511	66.995	ug/L	100

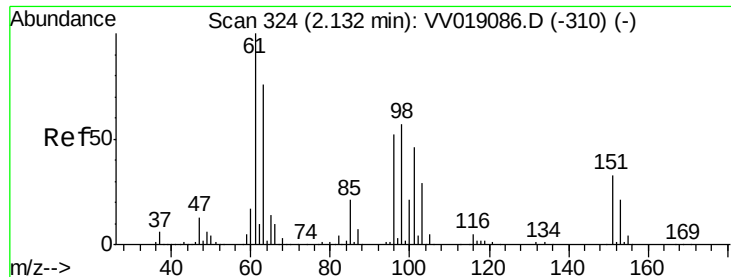
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102320\
Data File : VV019089.D
Acq On : 23 Oct 2020 13:52
Operator : SY/MD
Sample : L4425-06 2X
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
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Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Oct 24 03:32:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Oct 24 03:31:32 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.13	43	14624	6.109	ug/L #	40
49) Dibromochloromethane	8.27	129	168788	76.036	ug/L	99
50) 1,2-Dibromoethane	8.37	107	98339	46.660	ug/L	98
55) Styrene	9.58	104	144534	24.935	ug/L	96
56) Isopropylbenzene	9.95	105	188492	21.937	ug/L	100
62) 1,3-Dichlorobenzene	11.21	146	87939	19.761	ug/L	99
63) 1,4-Dichlorobenzene	11.30	146	160483	34.511	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	28993	36.573	ug/L	95
67) 1,3,5-Trichlorobenzene	12.67	180	172262	56.687	ug/L	100
68) 1,2,4-trichlorobenzene	13.29	180	73102	25.511	ug/L	98

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



#10

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

Concen: 0.719 ug/L

RT: 2.11 min Scan# 316

Delta R.T. -0.03 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Instrument :

MSVOA_V

ClientSampled :

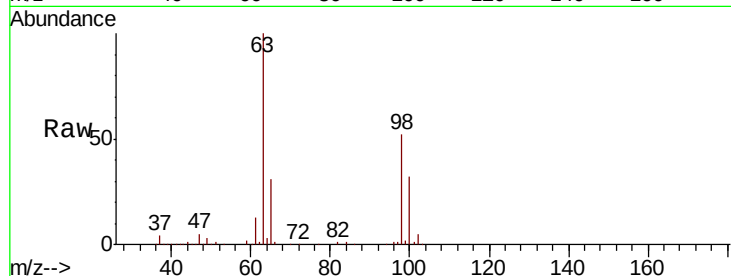
Tot Ion:101 Resp: 1344

Ion Ratio Lower Upper

101 100

85 3.0 36.9 55.3#

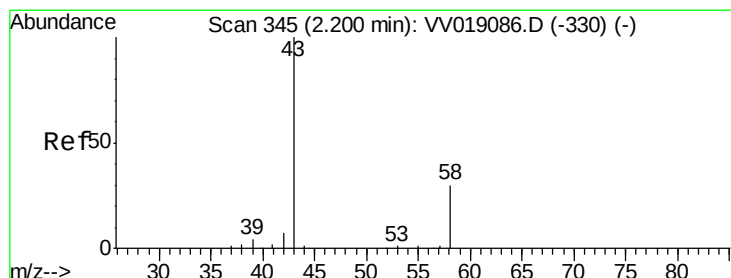
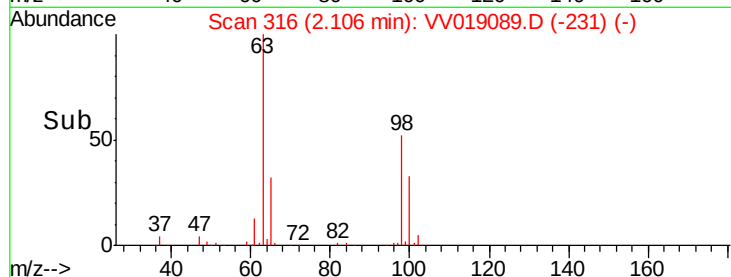
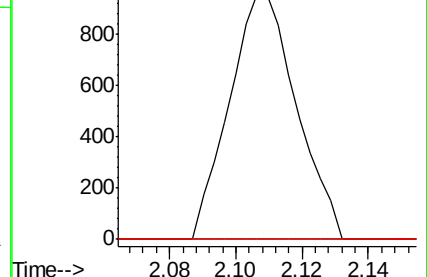
151 0.0 58.2 87.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 140.640 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.00 min

Lab File: VV019089.D

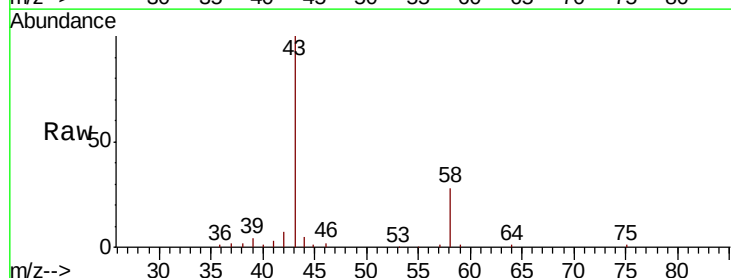
Acq: 23 Oct 2020 13:52

Tgt Ion: 43 Resp: 163030

Ion Ratio Lower Upper

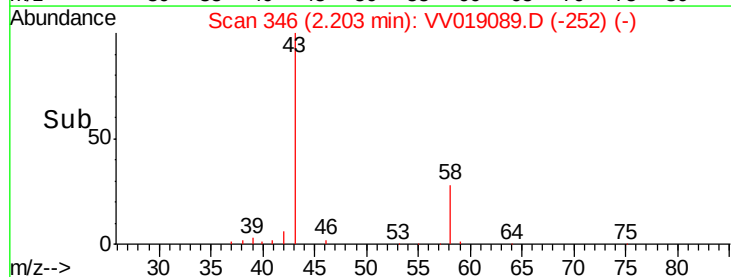
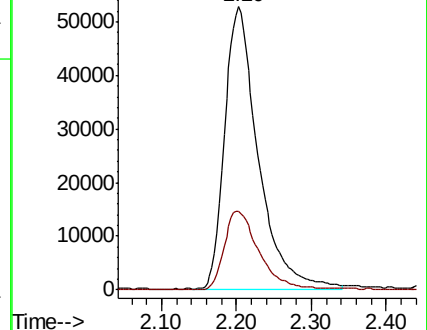
43 100

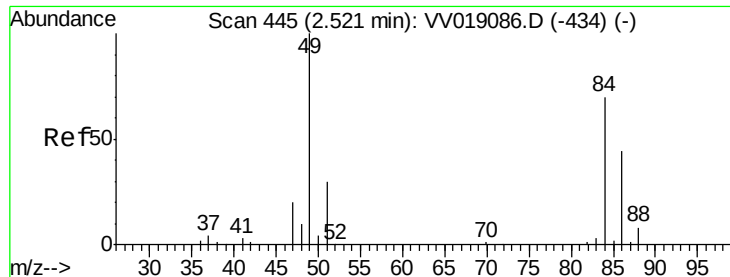
58 29.1 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

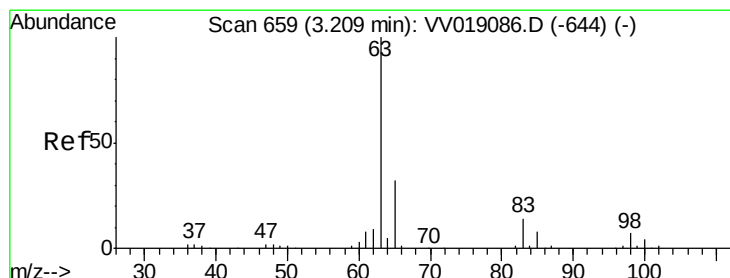
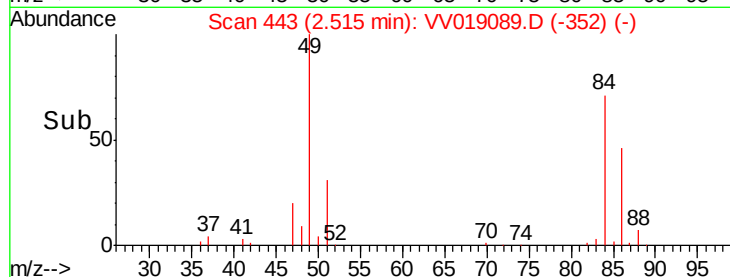
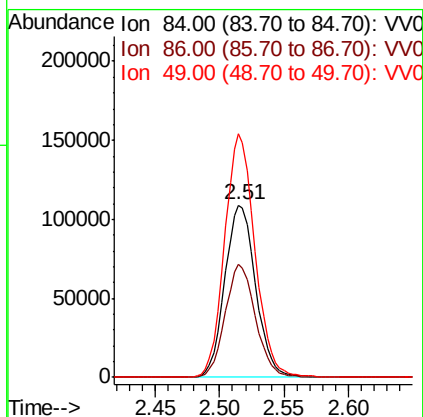
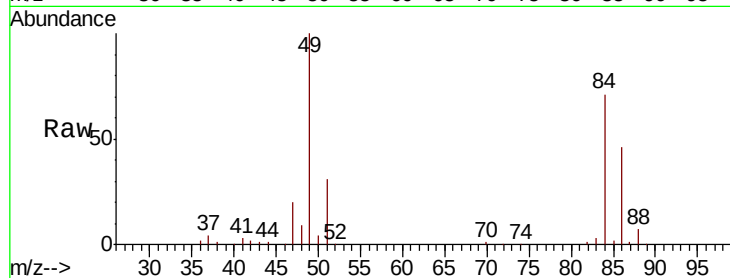




#16
Methylene chloride
Concen: 83.062 ug/L
RT: 2.51 min Scan# 443
Delta R.T. -0.01 min
Lab File: VV019089.D
Acq: 23 Oct 2020 13:52

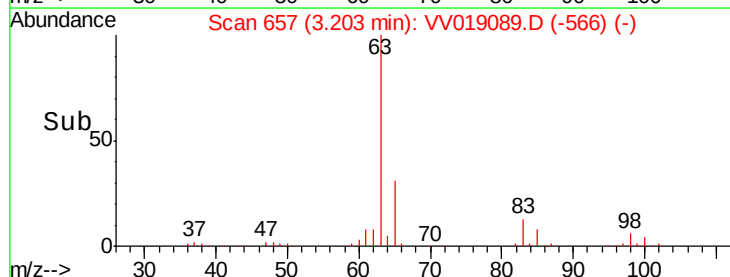
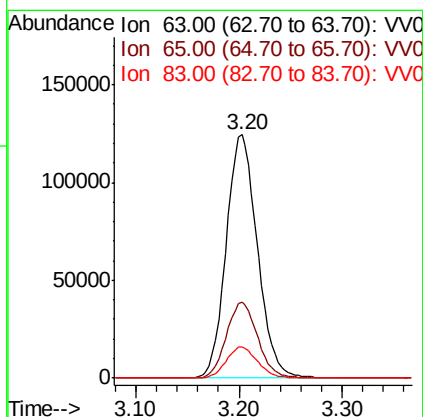
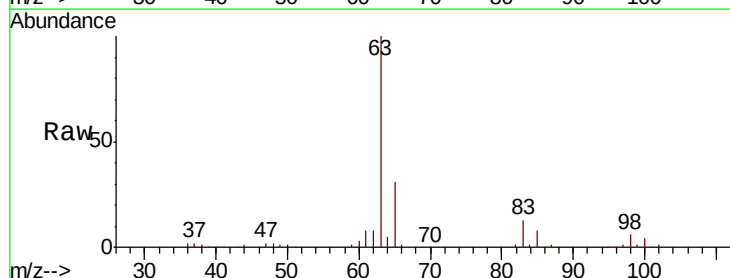
Instrument :
MSVOA_V
ClientSampleId :

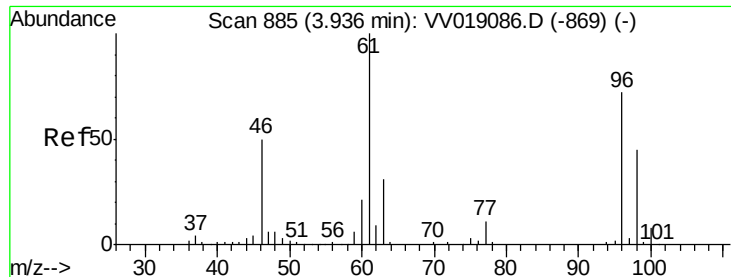
Tot Ion: 84 Resp: 181013
Ion Ratio Lower Upper
84 100
86 65.4 44.2 82.2
49 141.1 98.0 182.0



#19
1,1-Dichloroethane
Concen: 65.703 ug/L
RT: 3.20 min Scan# 657
Delta R.T. -0.01 min
Lab File: VV019089.D
Acq: 23 Oct 2020 13:52

Tgt Ion: 63 Resp: 262101
Ion Ratio Lower Upper
63 100
65 31.1 22.7 42.1
83 12.9 9.0 16.8



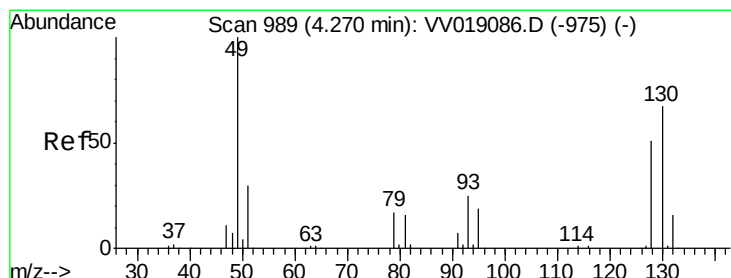
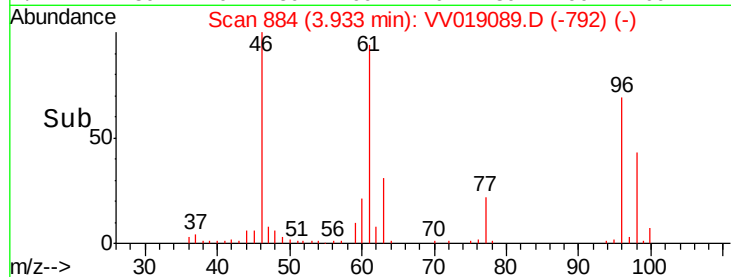
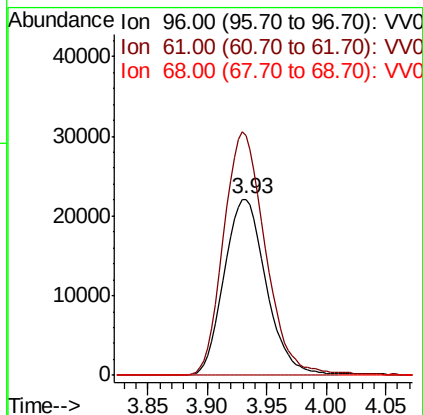
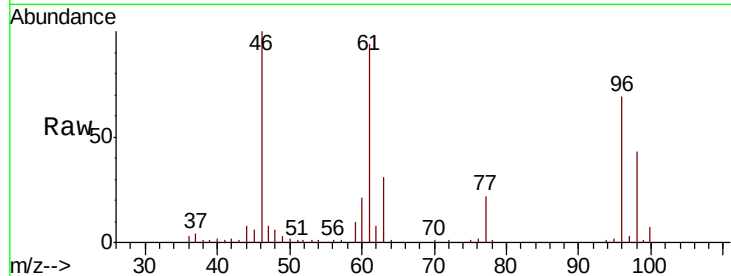


#20

cis-1,2-Dichloroethene
 Concen: 25.655 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

Instrument :
 MSVOA_V
 ClientSampleId :

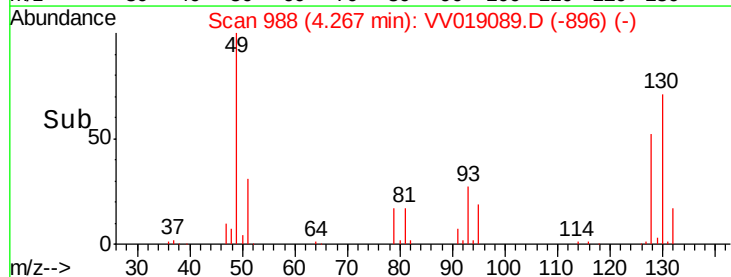
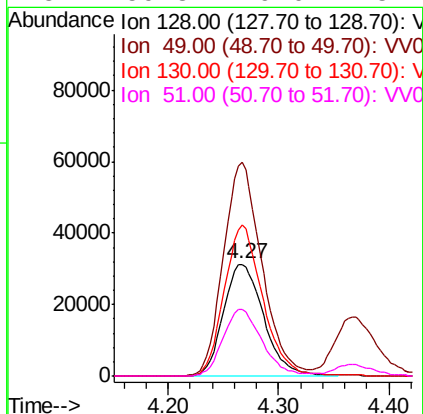
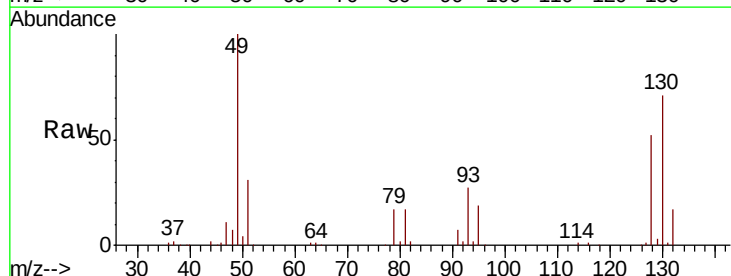
Tot Ion: 96 Resp: 54203
 Ion Ratio Lower Upper
 96 100
 61 136.1 99.4 184.6
 68 0.0 0.0 0.0

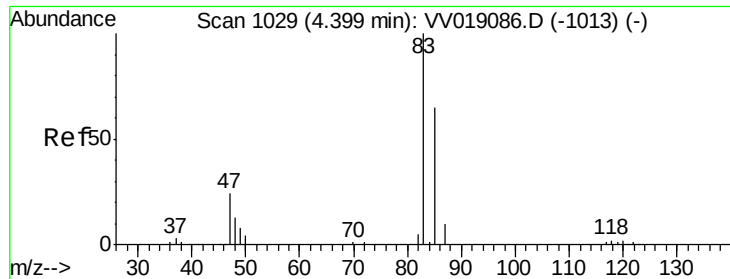


#23

Bromochloromethane
 Concen: 73.436 ug/L
 RT: 4.27 min Scan# 988
 Delta R.T. -0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

Tgt Ion:128 Resp: 78980
 Ion Ratio Lower Upper
 128 100
 49 191.5 137.1 254.5
 130 135.1 92.0 170.9
 51 59.8 49.0 73.4

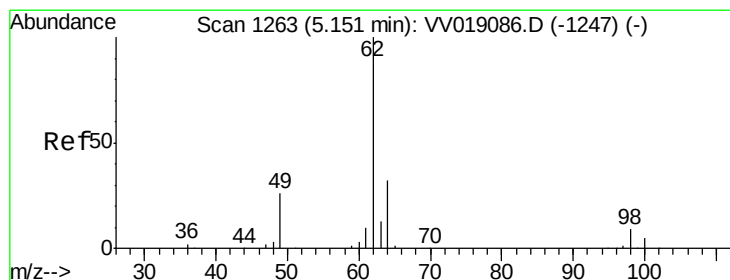
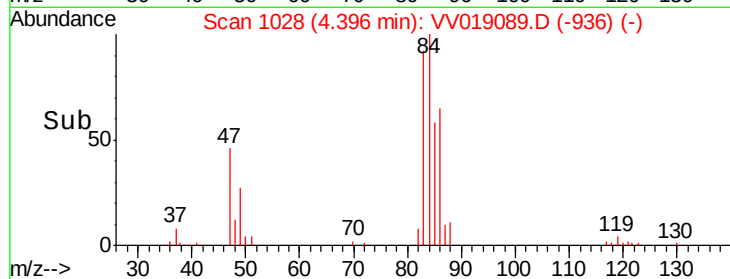
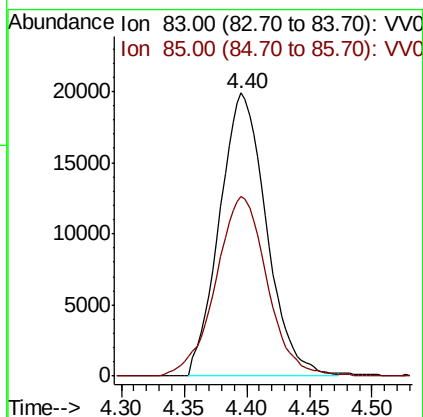
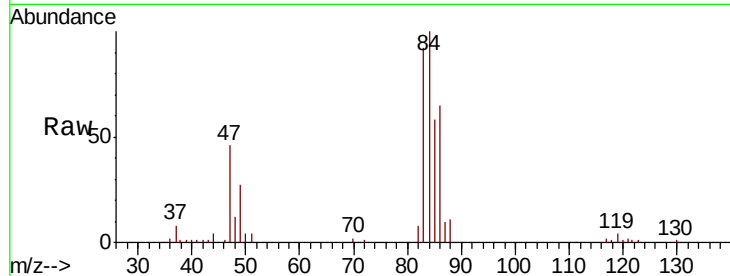




#25
Chloroform
Concen: 13.156 ug/L
RT: 4.40 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VV019089.D
Acq: 23 Oct 2020 13:52

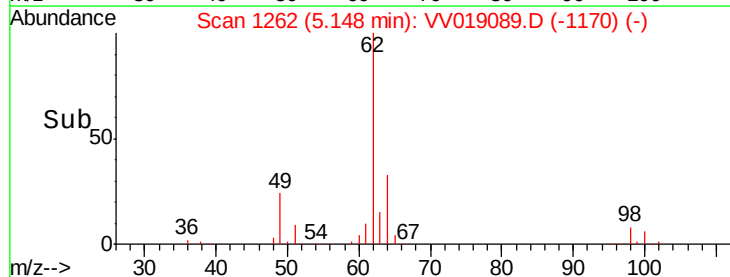
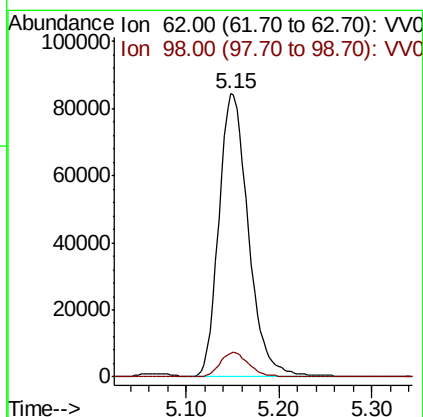
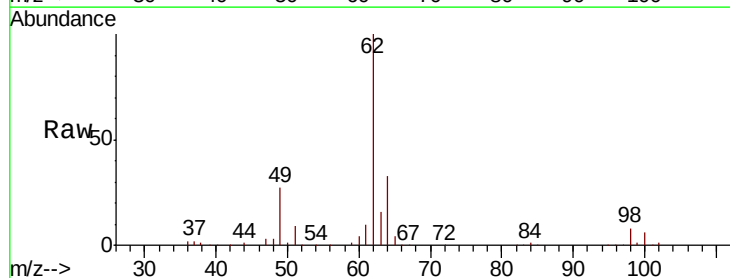
Instrument :
MSVOA_V
ClientSampleId :

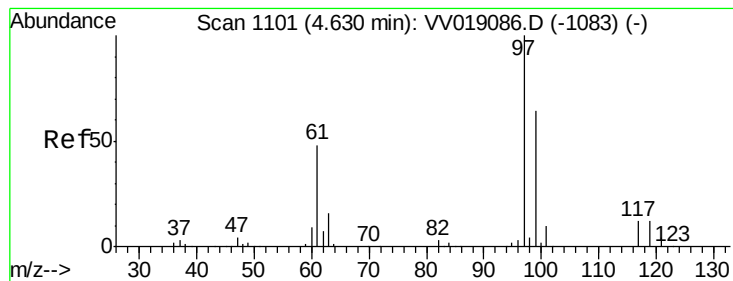
Tot Ion: 83 Resp: 51702
Ion Ratio Lower Upper
83 100
85 63.3 44.5 82.7



#27
1,2-Dichloroethane
Concen: 56.922 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VV019089.D
Acq: 23 Oct 2020 13:52

Tgt Ion: 62 Resp: 185643
Ion Ratio Lower Upper
62 100
98 8.5 6.9 10.3





#30

1,1,1-Trichloroethane

Concen: 32.072 ug/L

RT: 4.63 min Scan# 1100

Delta R.T. -0.00 min

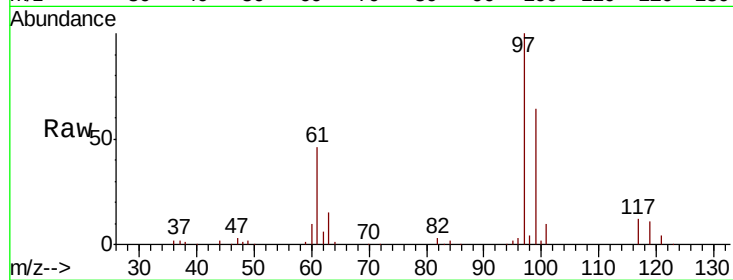
Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 97 Resp: 108950

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.5	75.7
61	46.3	38.1	57.1

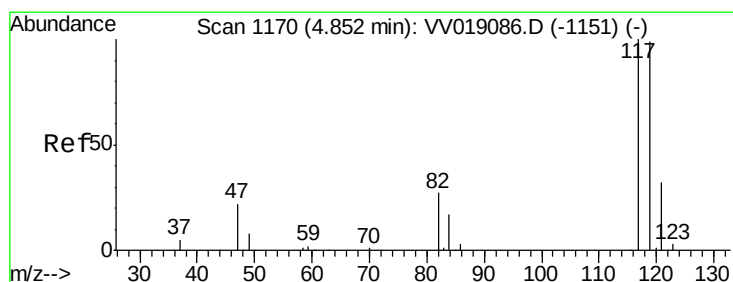
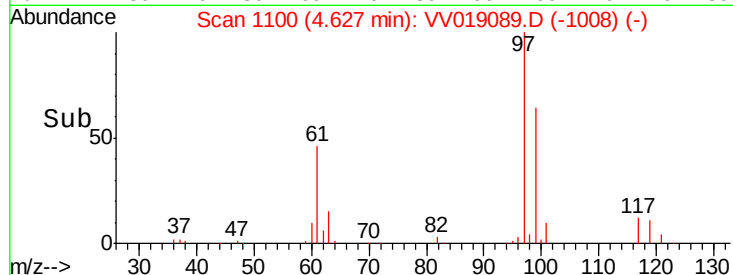
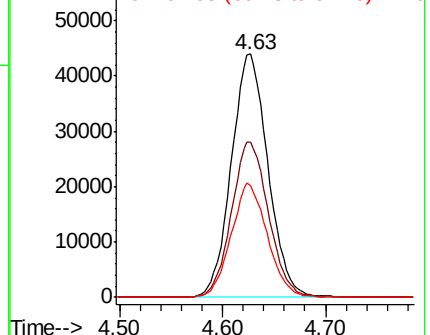


Abundance

Ion 97.00 (96.70 to 97.70): VV019086.D (-1083) (-)

Ion 99.00 (98.70 to 99.70): VV019086.D (-1083) (-)

Ion 61.05 (60.75 to 61.75): VV019086.D (-1083) (-)



#31

Carbon tetrachloride

Concen: 37.781 ug/L

RT: 4.85 min Scan# 1168

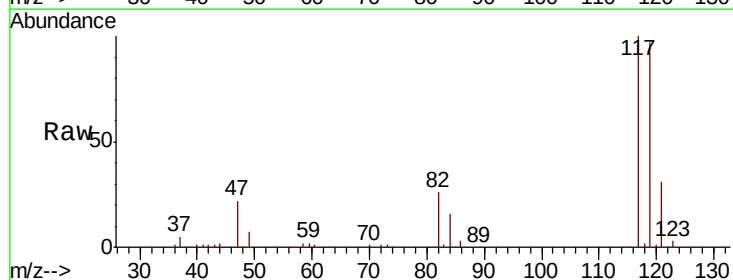
Delta R.T. -0.01 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Tgt Ion: 117 Resp: 111885

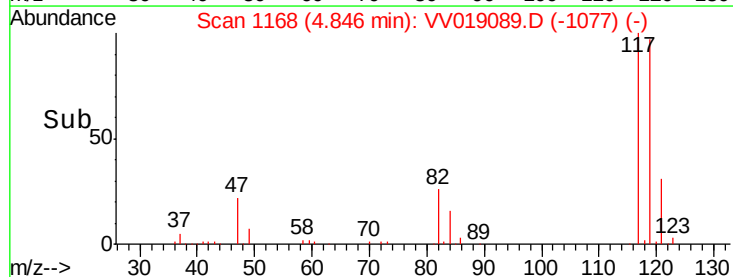
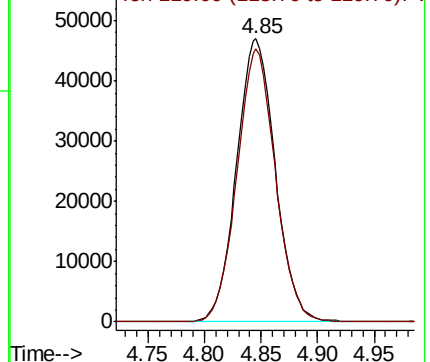
Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.2	115.8

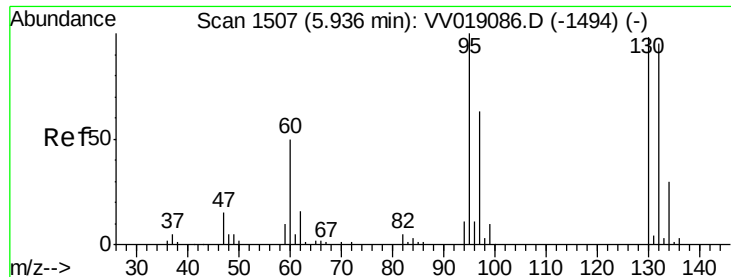


Abundance

Ion 117.00 (116.70 to 117.70): VV019086.D (-1151) (-)

Ion 119.00 (118.70 to 119.70): VV019086.D (-1151) (-)





#34

Trichloroethene

Concen: 31.180 ug/L

RT: 5.93 min Scan# 1506

Delta R.T. -0.00 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 65809

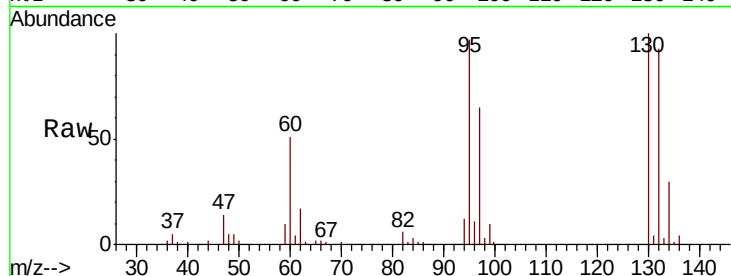
Ion Ratio Lower Upper

95 100

97 67.4 44.6 82.8

132 96.6 66.0 122.6

130 103.5 67.6 125.6

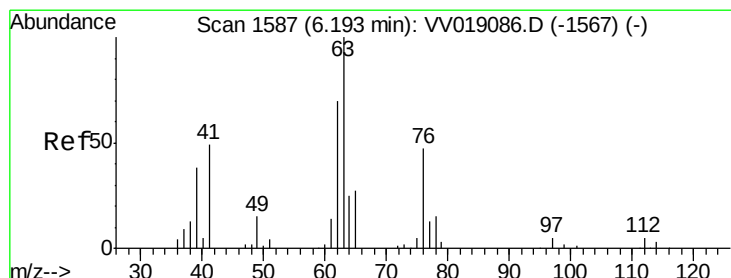
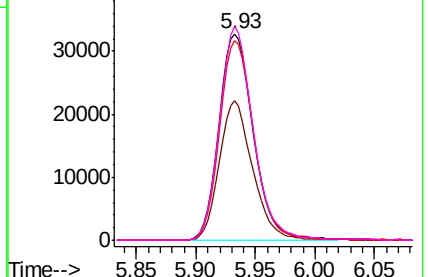
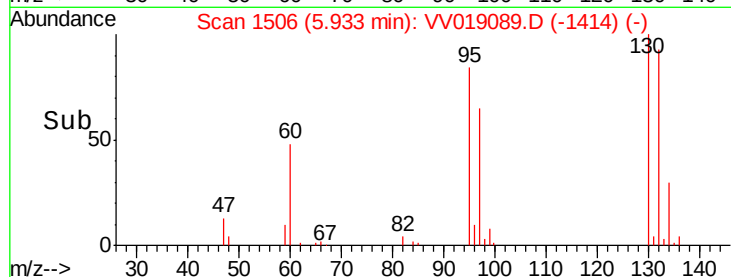


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#37

1,2-Dichloropropane

Concen: 29.920 ug/L

RT: 6.19 min Scan# 1587

Delta R.T. -0.00 min

Lab File: VV019089.D

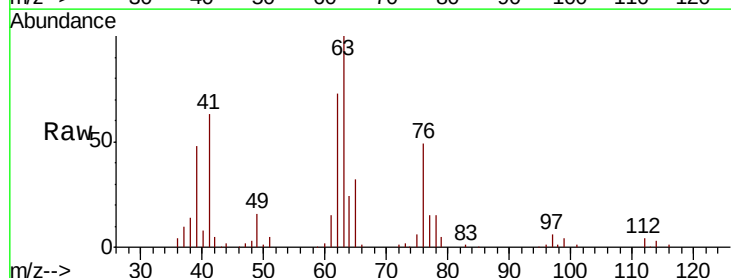
Acq: 23 Oct 2020 13:52

Tgt Ion: 63 Resp: 68799

Ion Ratio Lower Upper

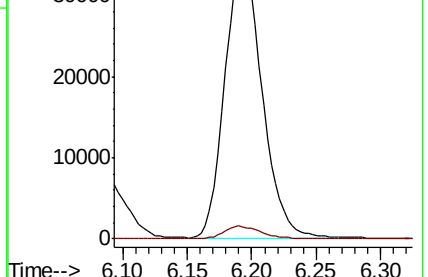
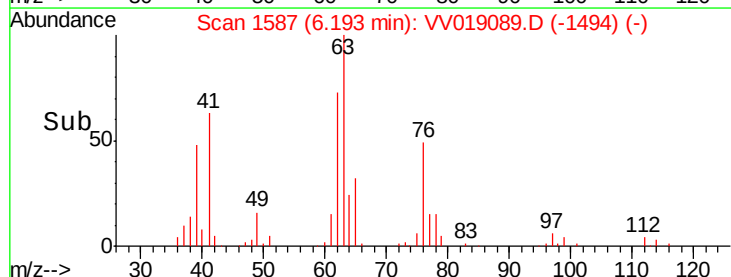
63 100

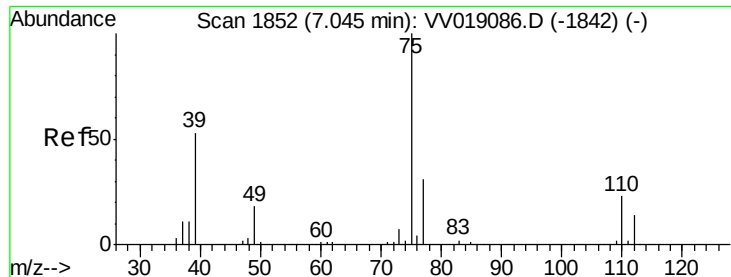
112 4.5 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): VV0

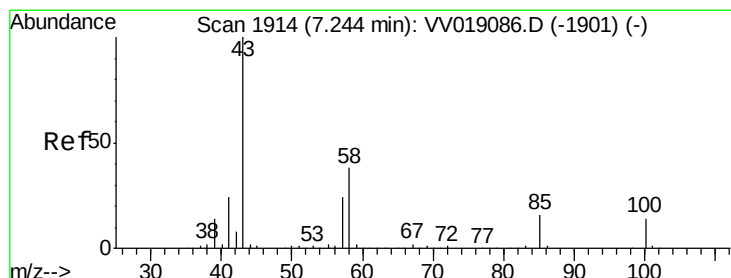
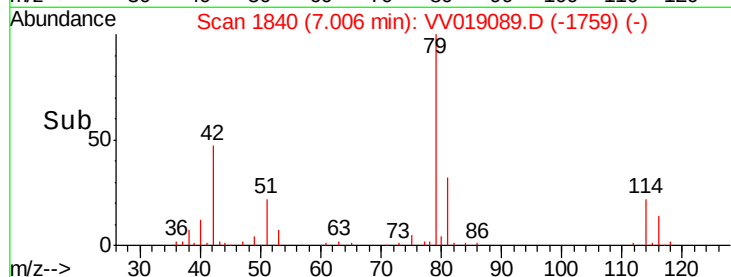
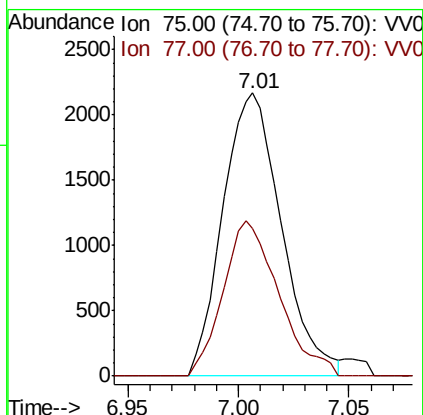
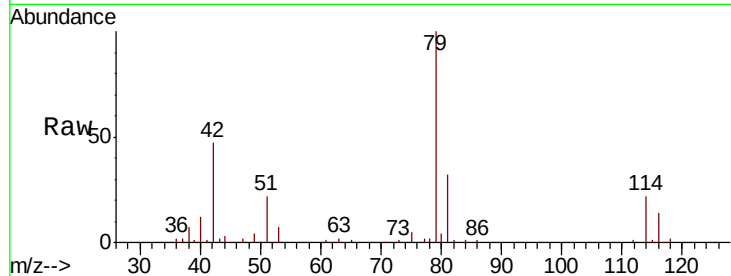




#39
 cis-1,3-Dichloropropene
 Concen: 1.177 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

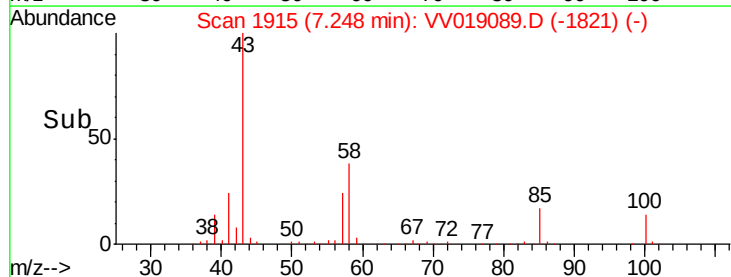
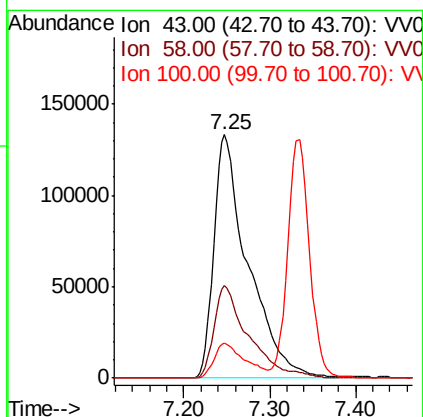
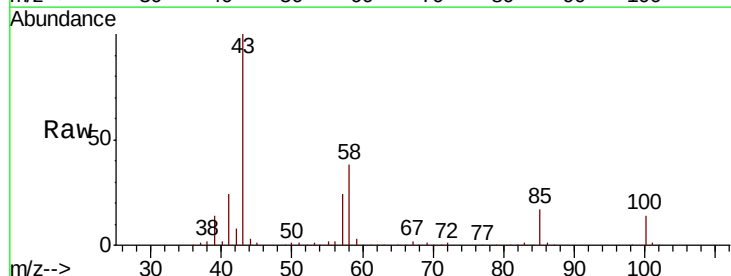
Instrument :
 MSVOA_V
 ClientSampled :

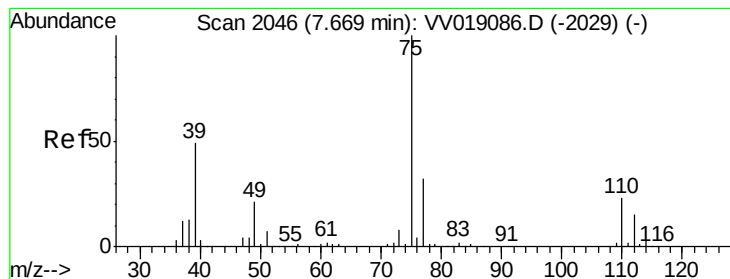
Tot Ion: 75 Resp: 4000
 Ion Ratio Lower Upper
 75 100
 77 52.4 22.1 41.1#



#40
 4-Methyl-2-pentanone
 Concen: 118.754 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

Tgt Ion: 43 Resp: 368398
 Ion Ratio Lower Upper
 43 100
 58 38.3 29.6 44.4
 100 13.3 10.9 16.3





#44

trans-1,3-Dichloropropene

Concen: 0.942 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Instrument :

MSVOA_V

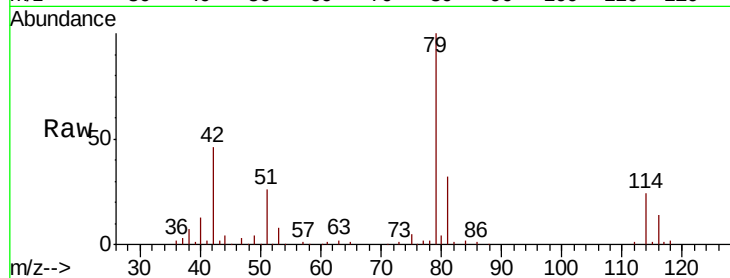
ClientSampleId :

Tot Ion: 75 Resp: 3176

Ion Ratio Lower Upper

75 100

77 37.3 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV019086.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019086.D (-2029) (-)

7.64

1500

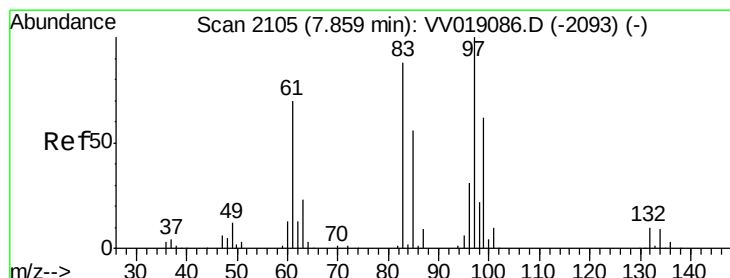
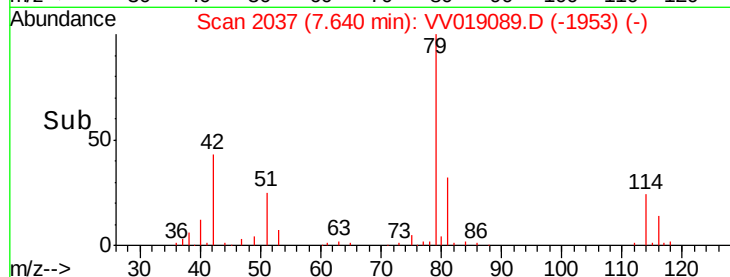
1000

500

0

7.60 7.65 7.70

Time-->



#45

1,1,2-Trichloroethane

Concen: 64.712 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Tgt Ion: 97 Resp: 131423

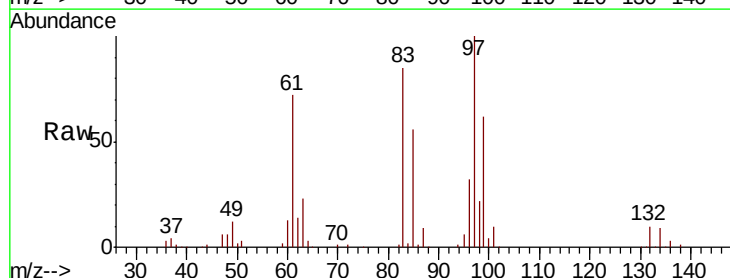
Ion Ratio Lower Upper

97 100

99 62.1 43.5 80.9

83 85.3 62.2 115.4

85 55.7 39.9 74.1



Abundance Ion 97.00 (96.70 to 97.70): VV019086.D (-2093) (-)

Ion 99.00 (98.70 to 99.70): VV019086.D (-2093) (-)

Ion 83.00 (82.70 to 83.70): VV019086.D (-2093) (-)

Ion 85.00 (84.70 to 85.70): VV019086.D (-2093) (-)

7.86

100000

80000

60000

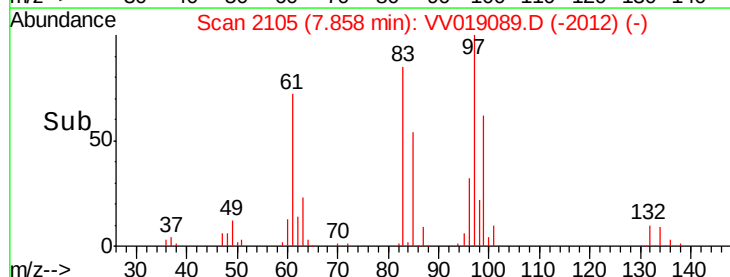
40000

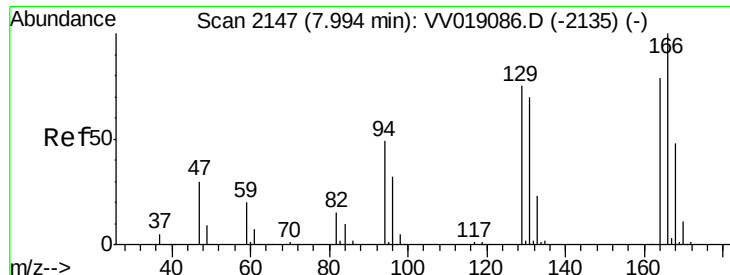
20000

0

7.80 7.85 7.90 7.95

Time-->

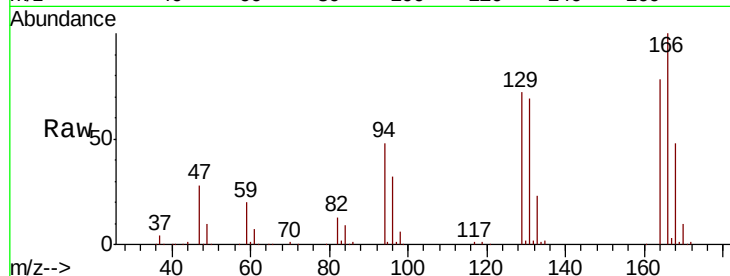




#46
Tetrachloroethene
Concen: 66.995 ug/L
RT: 7.99 min Scan# 2147
Delta R.T. -0.00 min
Lab File: VV019089.D
Acq: 23 Oct 2020 13:52

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	164	Resp:	108511
Ion	Ratio	Lower	Upper
164	100		
129	92.9	65.5	121.6
131	88.9	62.4	115.8
166	128.5	90.0	167.2



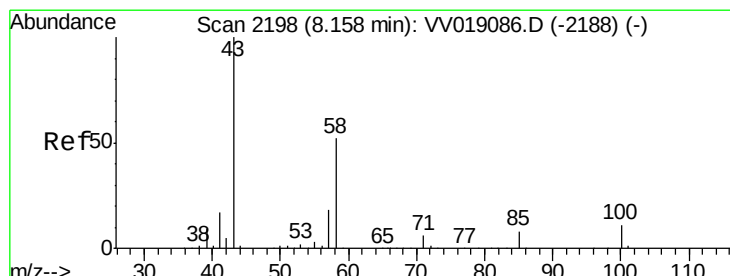
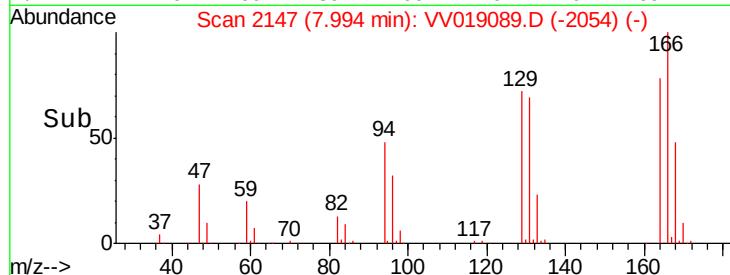
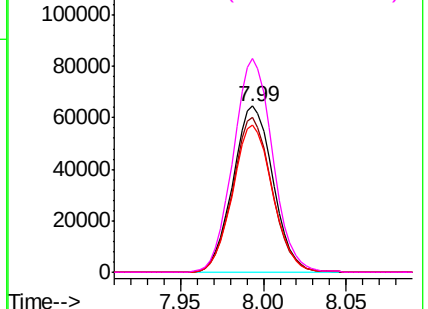
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

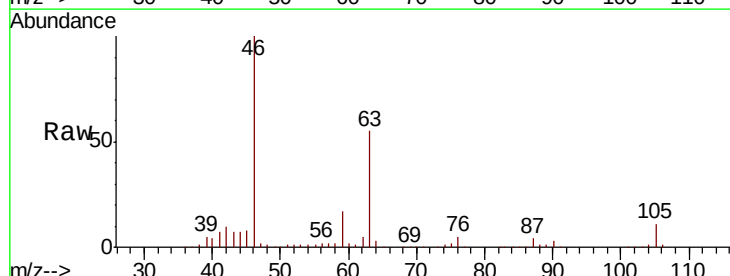
Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48
2-Hexanone
Concen: 6.109 ug/L
RT: 8.13 min Scan# 2188
Delta R.T. -0.03 min
Lab File: VV019089.D
Acq: 23 Oct 2020 13:52

Tgt Ion:	43	Resp:	14624
Ion	Ratio	Lower	Upper
43	100		
58	0.5	41.1	61.7#
57	0.0	14.7	22.1#
100	0.3	8.6	12.8#



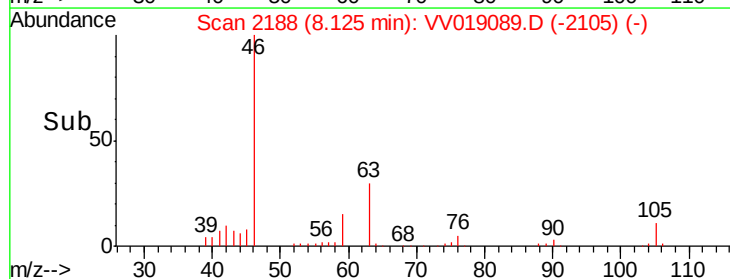
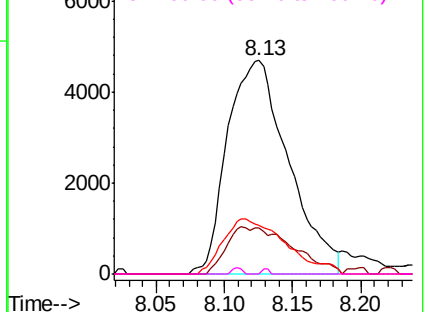
Abundance

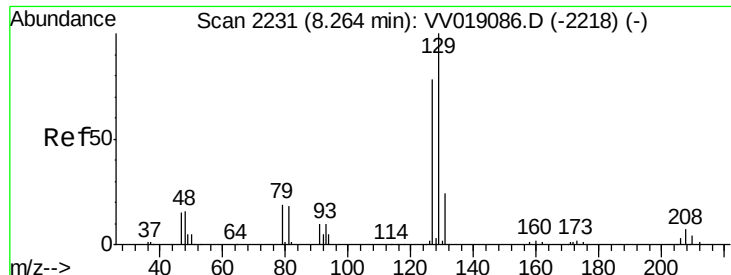
Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 76.036 ug/L

RT: 8.27 min Scan# 2232

Delta R.T. 0.00 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

Instrument :

MSVOA_V

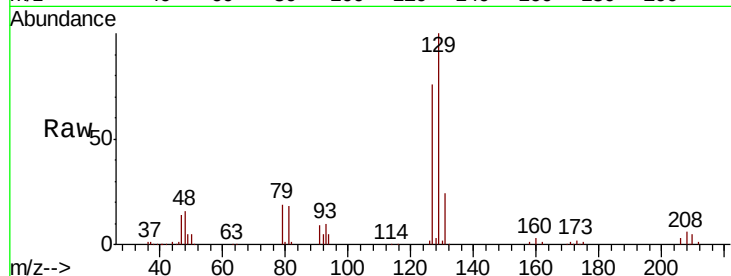
ClientSampleId :

Tot Ion:129 Resp: 168788

Ion Ratio Lower Upper

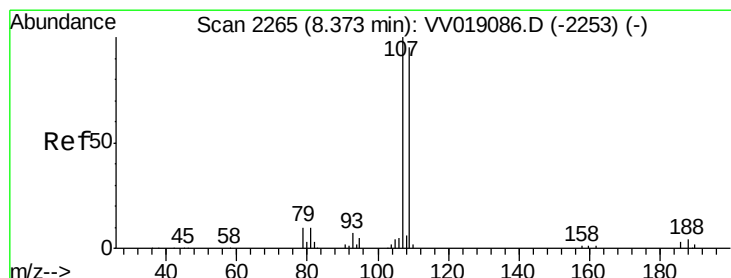
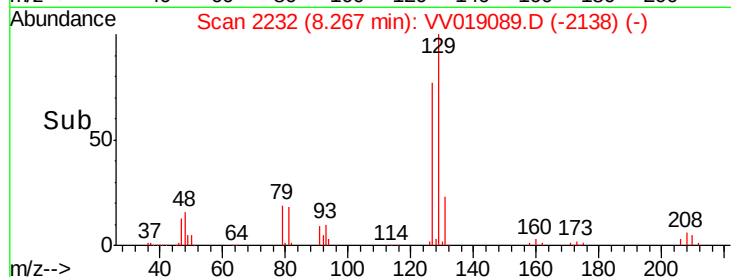
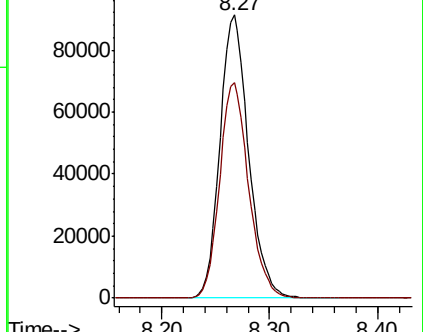
129 100

127 76.1 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 46.660 ug/L

RT: 8.37 min Scan# 2264

Delta R.T. -0.00 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

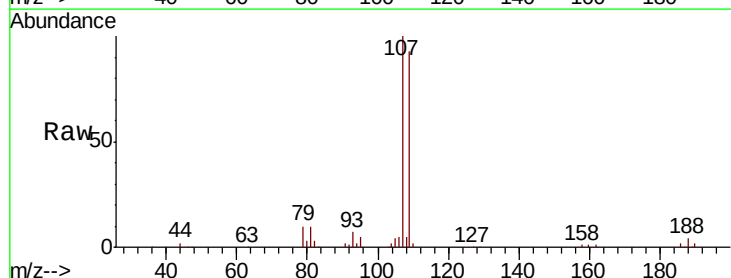
Tgt Ion:107 Resp: 98339

Ion Ratio Lower Upper

107 100

109 92.6 66.1 122.7

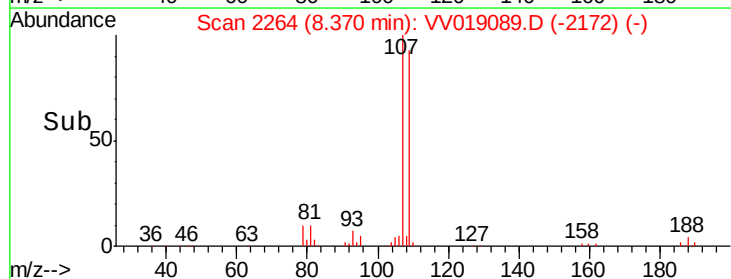
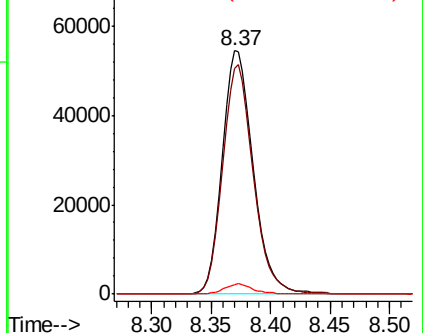
188 4.0 3.2 4.8

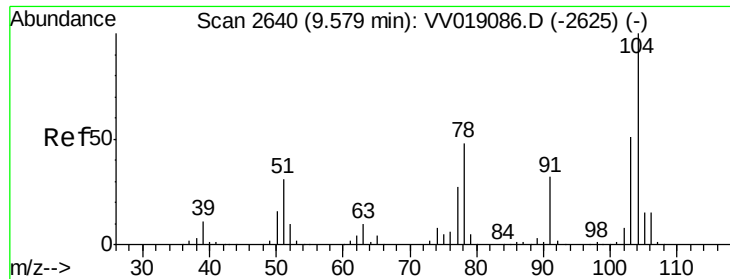


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#55

Stvrene

Concen: 24.935 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

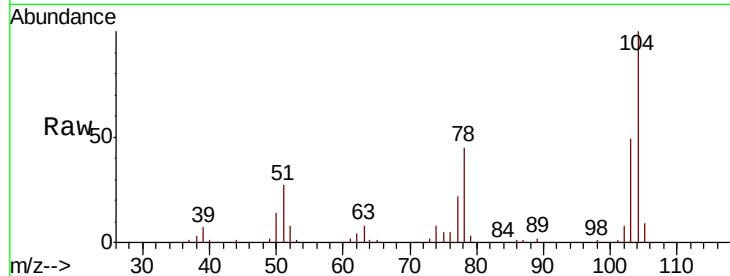
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 144534

Ion Ratio Lower Upper

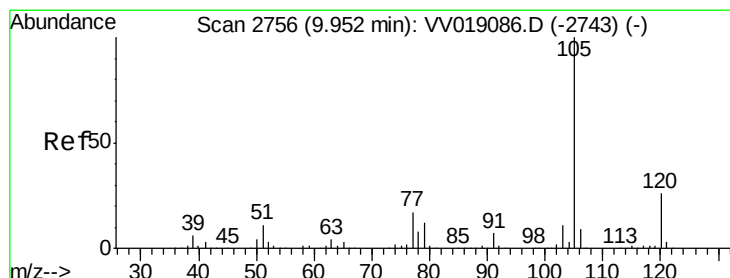
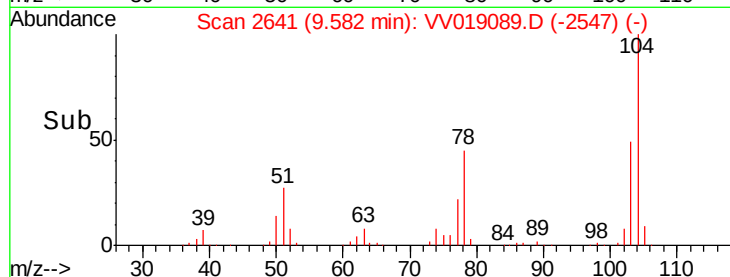
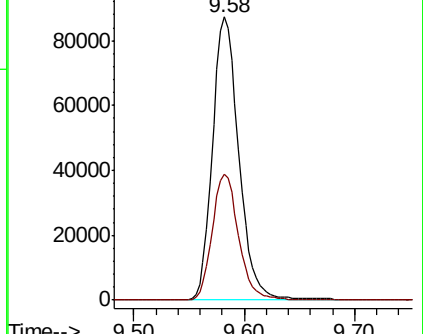
104 100

78 44.6 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 21.937 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019089.D

Acq: 23 Oct 2020 13:52

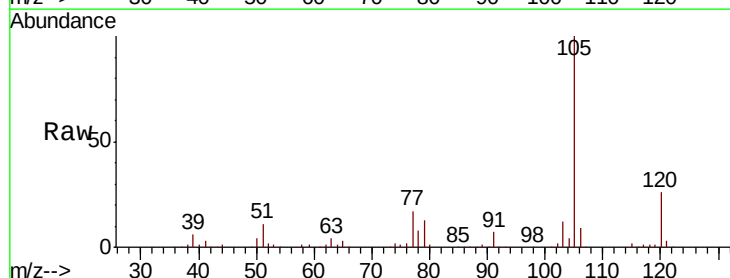
Tgt Ion:105 Resp: 188492

Ion Ratio Lower Upper

105 100

120 26.0 20.6 31.0

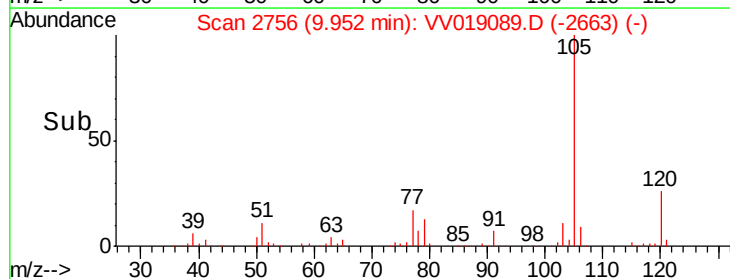
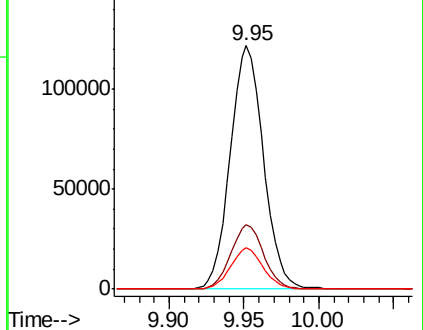
77 16.6 13.4 20.0

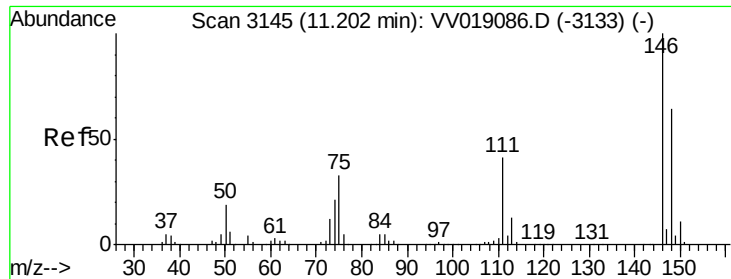


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0

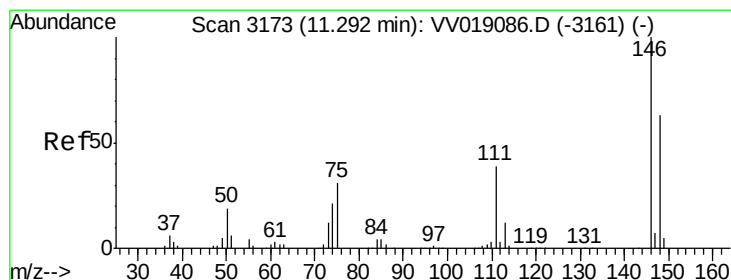
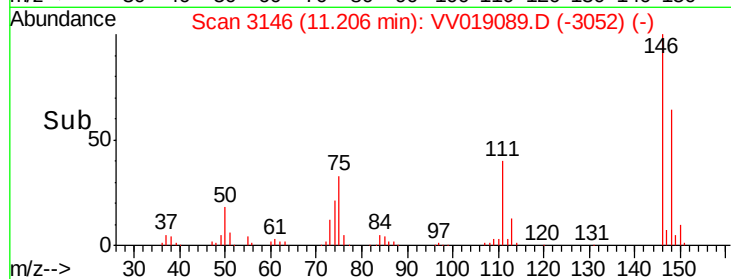
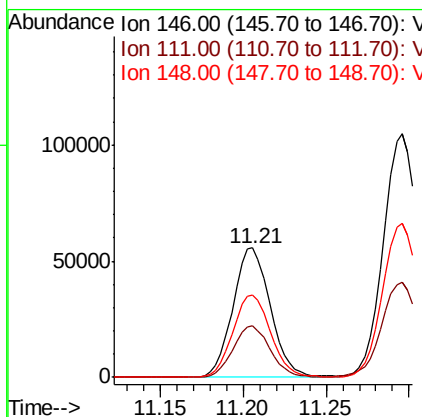
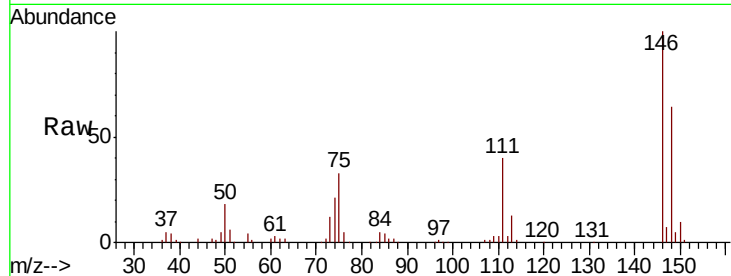




#62
 1,3-Dichlorobenzene
 Concen: 19.761 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

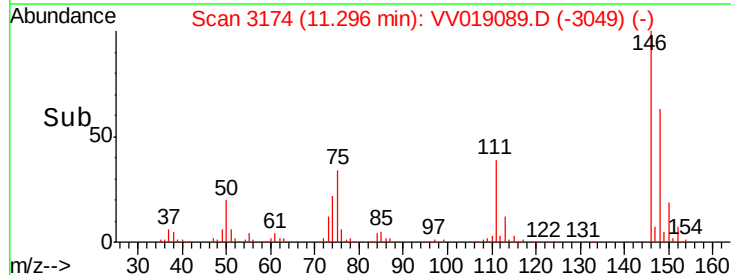
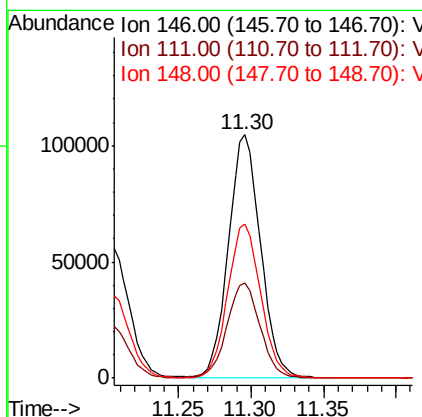
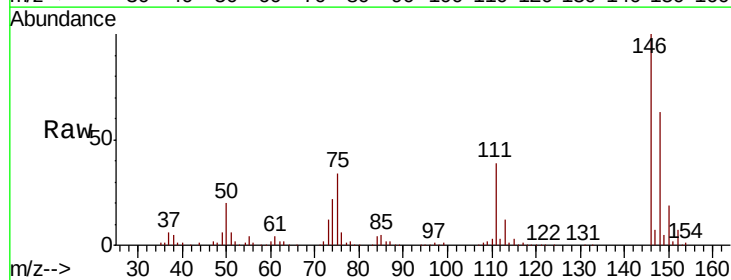
Instrument :
 MSVOA_V
 ClientSampleId :

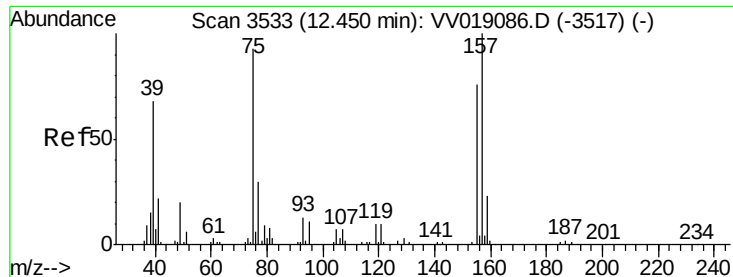
Tot Ion:146 Resp: 87939
 Ion Ratio Lower Upper
 146 100
 111 39.6 28.8 53.4
 148 64.0 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 34.511 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

Tgt Ion:146 Resp: 160483
 Ion Ratio Lower Upper
 146 100
 111 38.9 27.8 51.6
 148 63.2 45.1 83.9

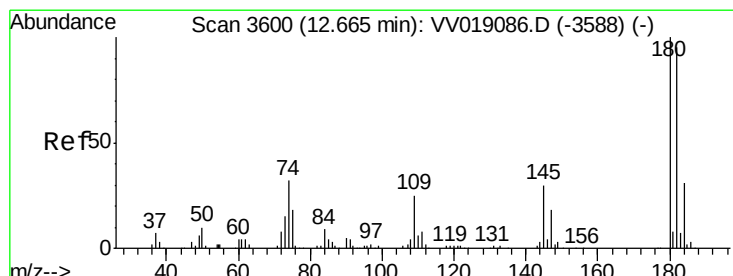
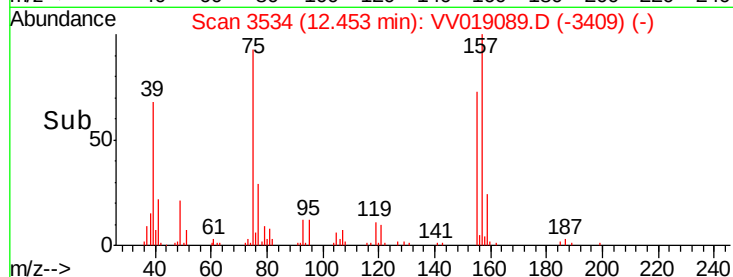
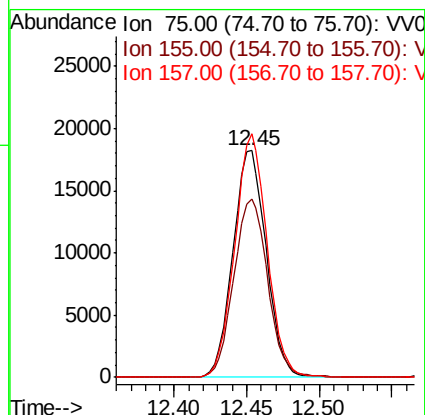
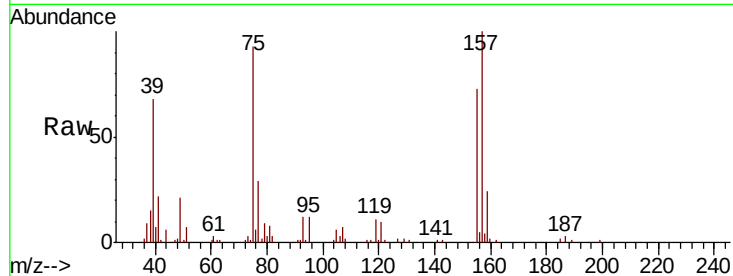




#66
 1,2-Dibromo-3-chloropropane
 Concen: 36.573 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

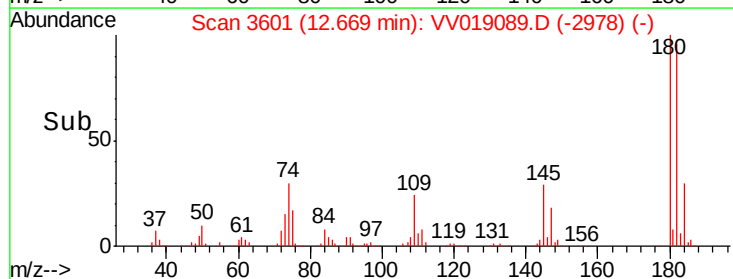
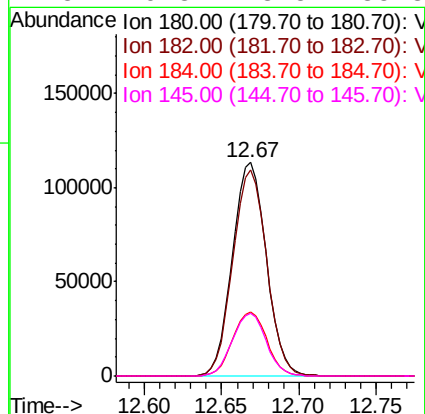
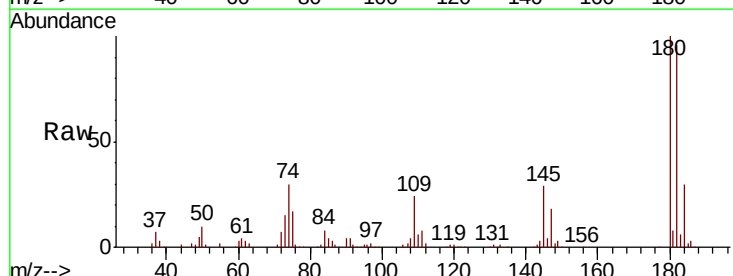
Instrument :
 MSVOA_V
 ClientSampleId :

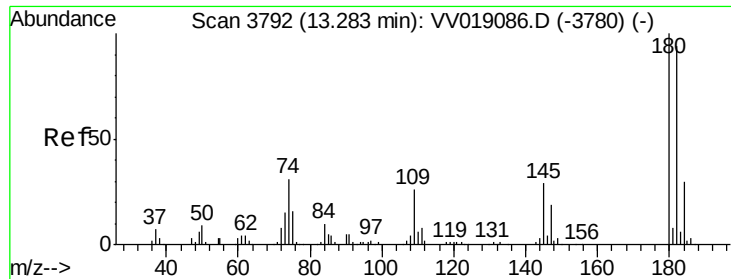
Tot Ion: 75 Resp: 28993
 Ion Ratio Lower Upper
 75 100
 155 78.9 62.2 93.4
 157 107.6 79.9 119.9



#67
 1,3,5-Trichlorobenzene
 Concen: 56.687 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

Tgt Ion: 180 Resp: 172262
 Ion Ratio Lower Upper
 180 100
 182 96.5 77.4 116.0
 184 30.3 24.7 37.1
 145 29.3 23.5 35.3

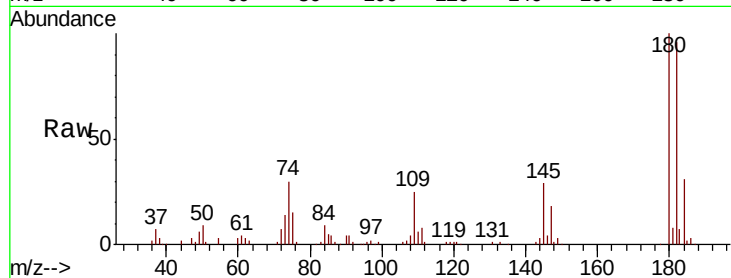




#68
 1,2,4-trichlorobenzene
 Concen: 25.511 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019089.D
 Acq: 23 Oct 2020 13:52

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 73102
 Ion Ratio Lower Upper
 180 100
 182 95.1 77.4 116.2
 145 29.0 23.7 35.5



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

