

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\
 Data File : VV015534.D
 Acq On : 16 Apr 2020 14:14
 Operator : SY/MD
 Sample : L2320-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 17 00:49:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 00:46:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	105946	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	100532	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	50118	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	27641	5.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.60%
7) Chloroethane-d5	1.58	69	26111	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.20%
11) 1,1-Dichloroethene-d2	2.12	63	44693	3.86	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.20%
20) 2-Butanone-d5	3.95	46	80460	52.13	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.26%
24) Chloroform-d	4.38	84	58635	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.06	65	33778	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.00%
32) Benzene-d6	5.07	84	115611	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.60%
36) 1,2-Dichloropropane-d6	6.10	67	36783	5.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.00%
41) Toluene-d8	7.34	98	104694	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
43) trans-1,3-Dichloropropene-	7.65	79	14955	4.95	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.00%
46) 2-Hexanone-d5	8.12	63	64937	44.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.14%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	24326	4.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	11.65	152	38913	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	11861	1.131	ug/L 98
9) Trichlorofluoromethane	1.76	101	79419	6.455	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2407	0.346	ug/L 88
12) 1,1-Dichloroethene	2.13	96	7031	1.057	ug/L # 17
17) Methyl tert-butyl Ether	2.79	73	14311	0.805	ug/L # 93
18) trans-1,2-Dichloroethene	2.78	96	2371	0.316	ug/L 95
19) 1,1-Dichloroethane	3.22	63	5441	0.385	ug/L 93
22) cis-1,2-Dichloroethene	3.94	96	37980	4.881	ug/L 97
25) Chloroform	4.41	83	5550	0.384	ug/L 87
29) 1,1,1-Trichloroethane	4.63	97	2321	0.178	ug/L 99
31) Carbon tetrachloride	4.85	117	1562	0.138	ug/L 93
34) Trichloroethene	5.94	95	384013	47.417	ug/L 99
35) Methylcyclohexane	6.10	83	8889	0.651	ug/L # 15
37) 1,2-Dichloropropane	6.10	63	4337	0.581	ug/L # 86
39) cis-1,3-Dichloropropene	7.01	75	1063	0.093	ug/L # 77
44) trans-1,3-Dichloropropene	7.65	75	688	0.071	ug/L # 75
45) 1,1,2-Trichloroethane	7.99	97	2857	0.570	ug/L # 15

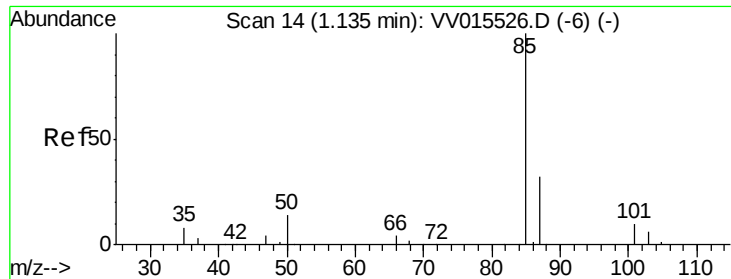
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\
Data File : VV015534.D
Acq On : 16 Apr 2020 14:14
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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 17 00:46:36 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.00	164	280701	46.781	ug/L	99
48) 2-Hexanone	8.11	43	10957	3.200	ug/L #	73
49) Dibromochloromethane	8.00	129	270296	44.981	ug/L #	10
63) 1,4-Dichlorobenzene	11.30	146	1244	0.076	ug/L	82

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



#2

Dichlorodifluoromethane

Concen: 1.131 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV015534.D

Acq: 16 Apr 2020 14:14

Instrument :

MSVOA_V

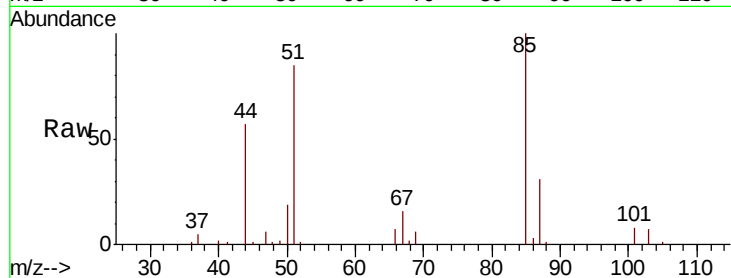
ClientSampleId :

Tot Ion: 85 Resp: 11861

Ion Ratio Lower Upper

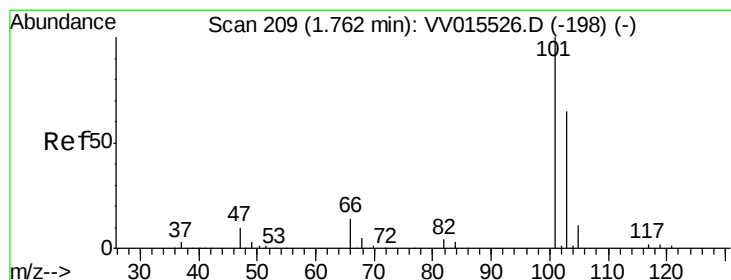
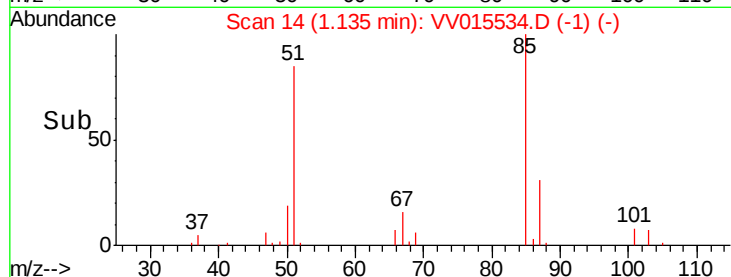
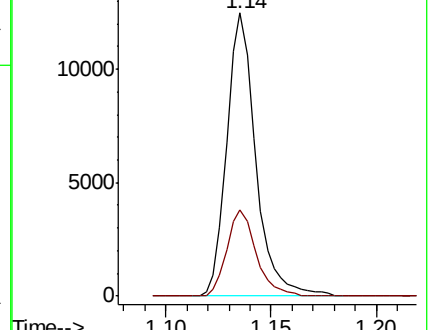
85 100

87 30.7 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV015526.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015526.D (-6) (-)



#9

Trichlorofluoromethane

Concen: 6.455 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV015534.D

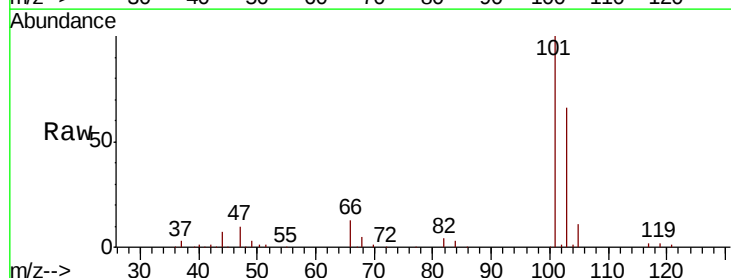
Acq: 16 Apr 2020 14:14

Tgt Ion:101 Resp: 79419

Ion Ratio Lower Upper

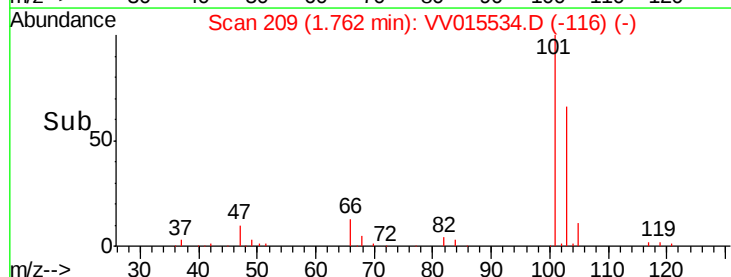
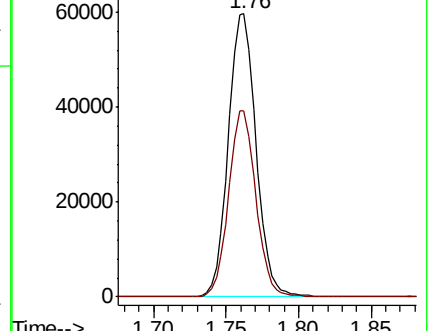
101 100

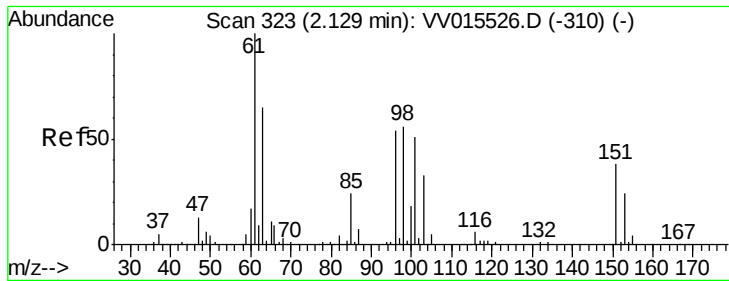
103 64.7 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV015526.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV015526.D (-198) (-)





#10

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

Concen: 0.346 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015534.D

Acq: 16 Apr 2020 14:14

Instrument :

MSVOA_V

ClientSampleId :

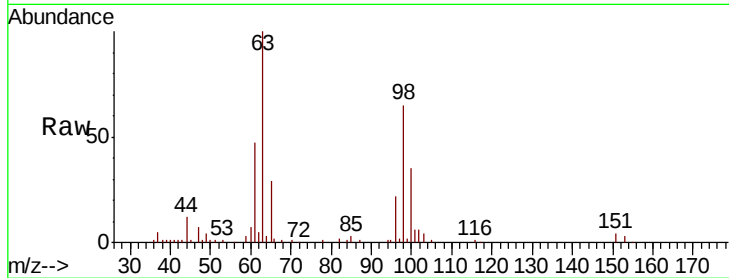
Tot Ion:101 Resp: 2407

Ion Ratio Lower Upper

101 100

85 39.1 36.3 54.5

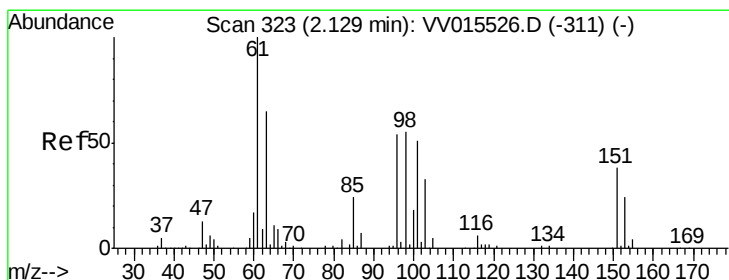
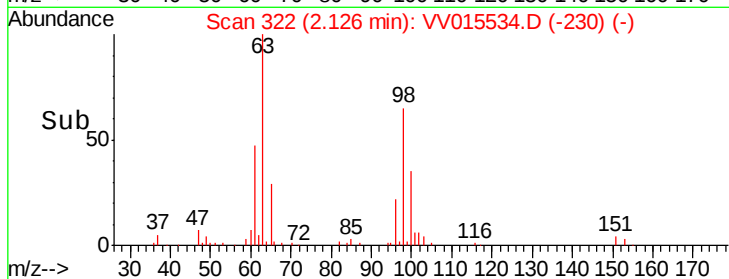
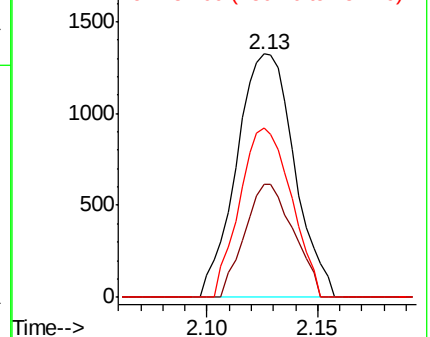
151 62.1 58.2 87.4



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



#12

1,1-Dichloroethene

Concen: 1.057 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV015534.D

Acq: 16 Apr 2020 14:14

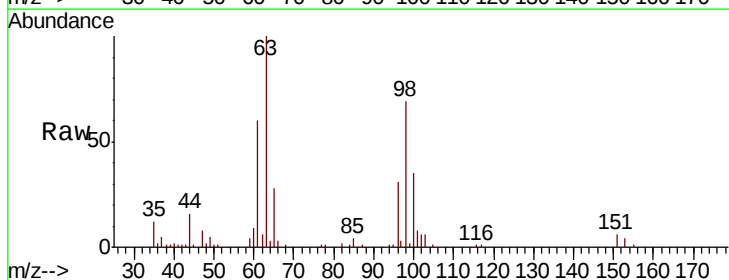
Tgt Ion: 96 Resp: 7031

Ion Ratio Lower Upper

96 100

61 195.5 127.7 237.1

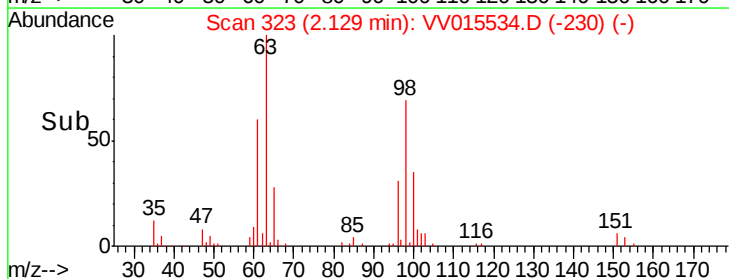
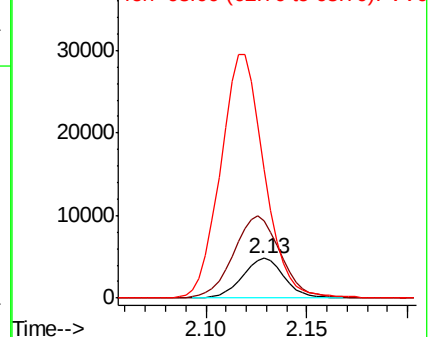
63 323.9 75.1 139.5#

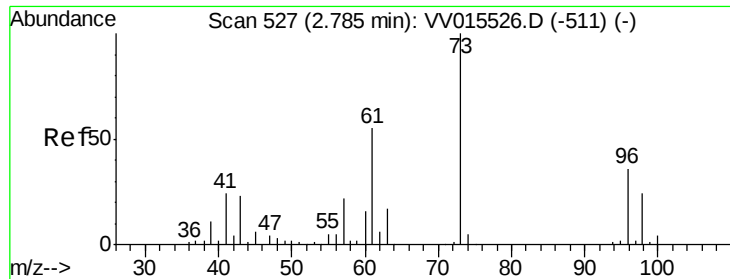


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

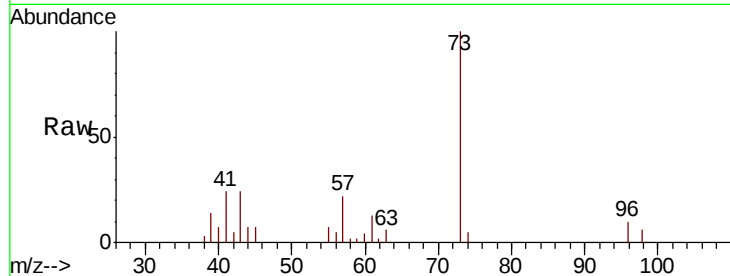




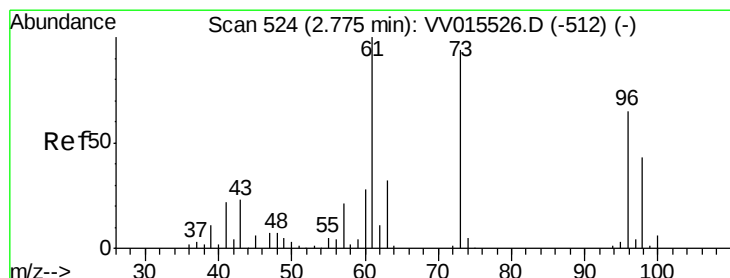
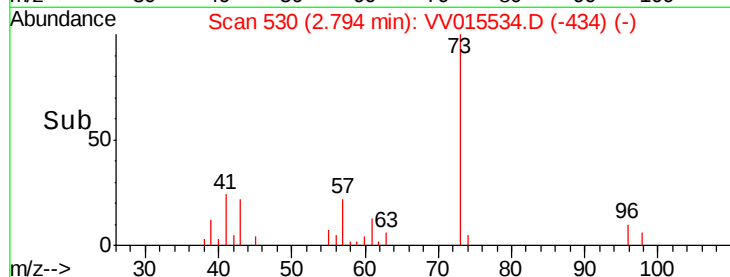
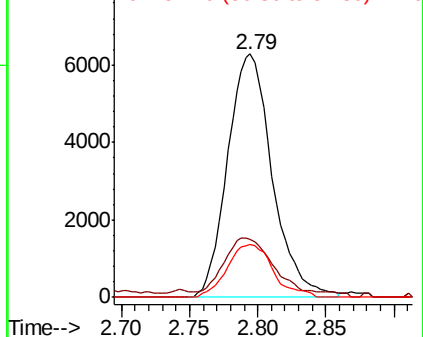
#17
Methvl tert-butvl Ether
Concen: 0.805 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 14311
Ion Ratio Lower Upper
73 100
43 29.4 18.3 27.5#
57 22.4 18.4 27.6

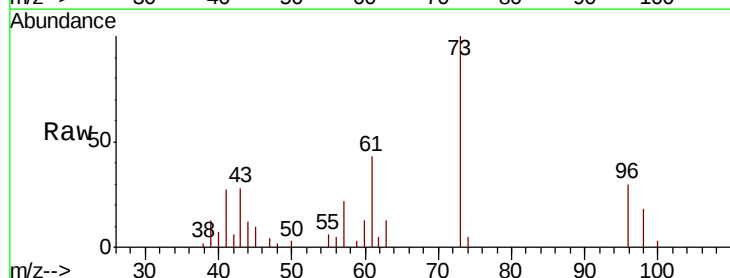


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

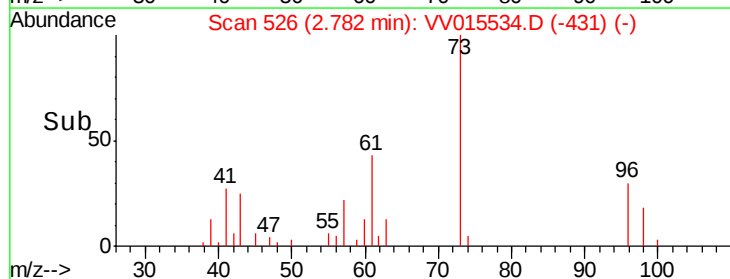
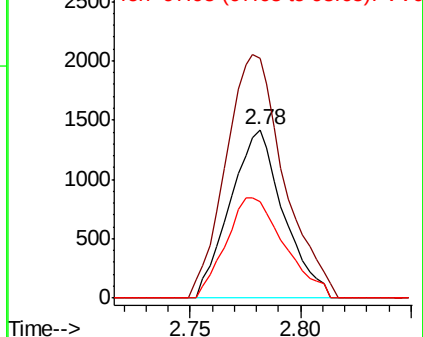


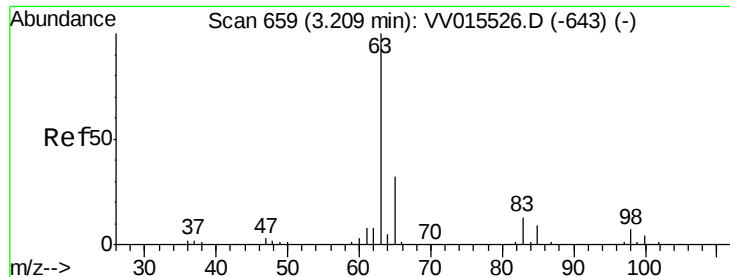
#18
trans-1,2-Dichloroethene
Concen: 0.316 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.01 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Tgt Ion: 96 Resp: 2371
Ion Ratio Lower Upper
96 100
61 142.3 104.4 194.0
98 57.5 42.8 79.4



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

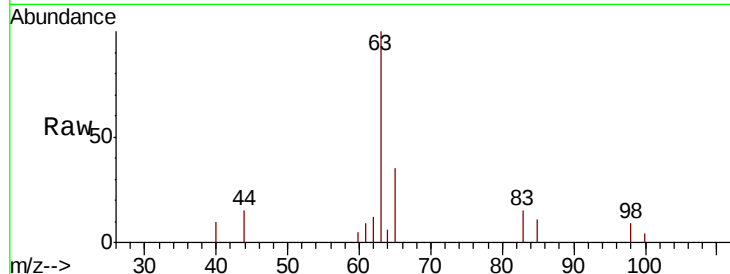




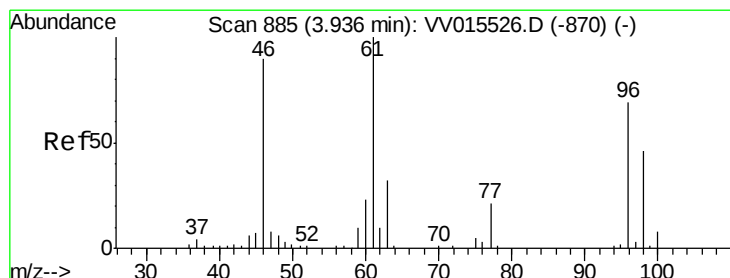
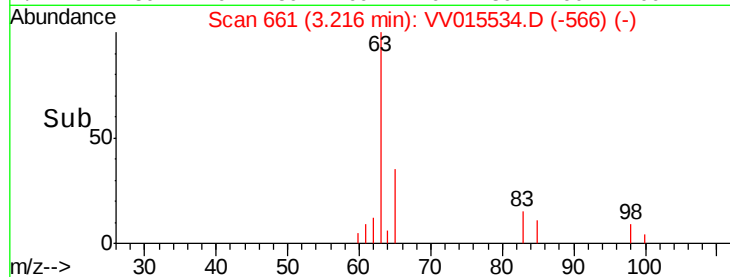
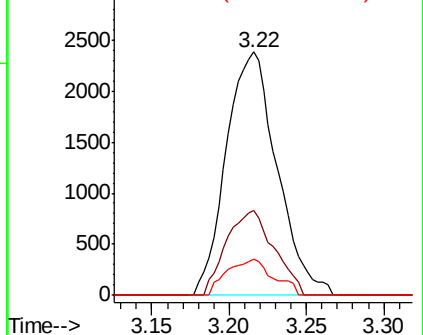
#19
 1,1-Dichloroethane
 Concen: 0.385 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV015534.D
 Acq: 16 Apr 2020 14:14

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 63 Resp: 5441
 Ion Ratio Lower Upper
 63 100
 65 34.8 21.3 39.6
 83 14.9 9.4 17.6

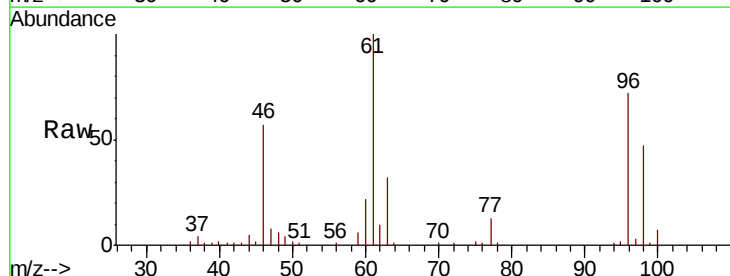


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

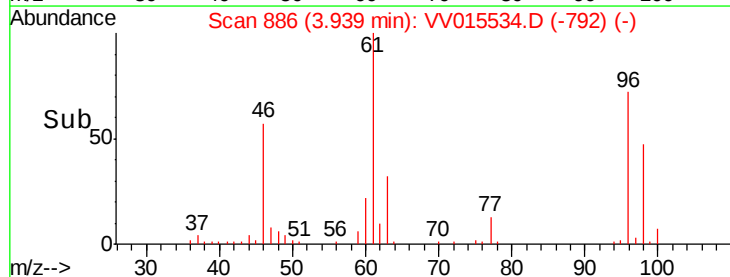
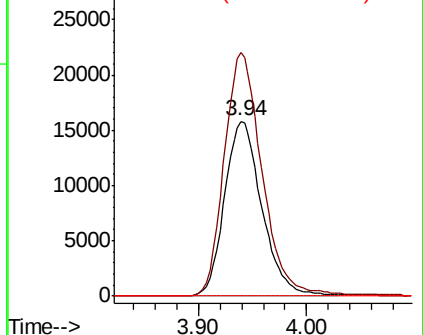


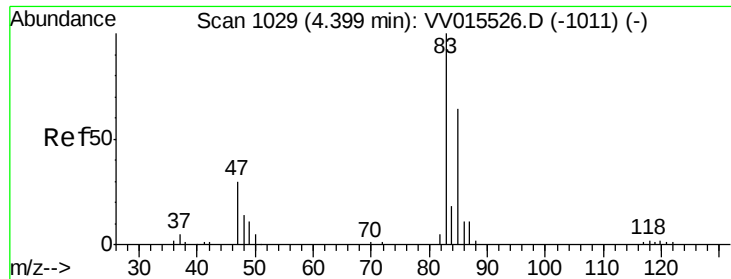
#22
 cis-1,2-Dichloroethene
 Concen: 4.881 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV015534.D
 Acq: 16 Apr 2020 14:14

Tgt Ion: 96 Resp: 37980
 Ion Ratio Lower Upper
 96 100
 61 139.3 100.0 185.8
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

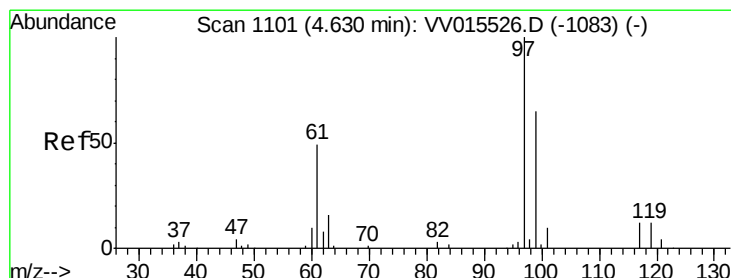
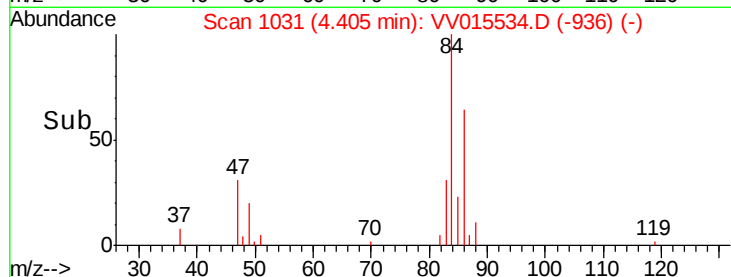
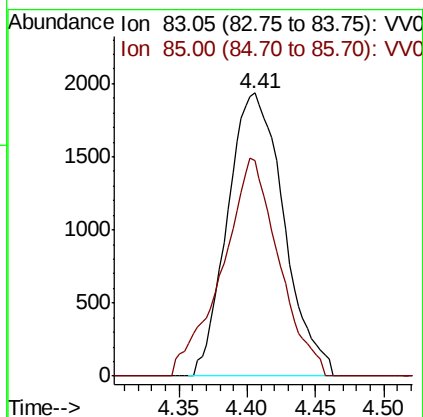
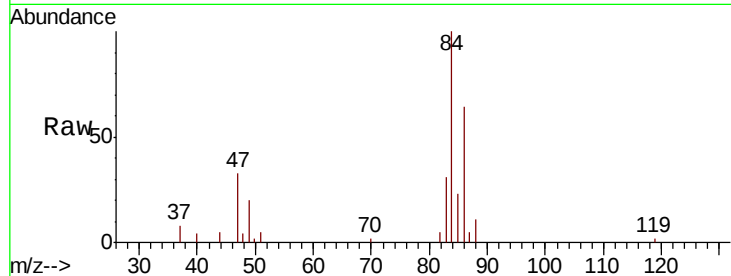




#25
Chloroform
Concen: 0.384 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

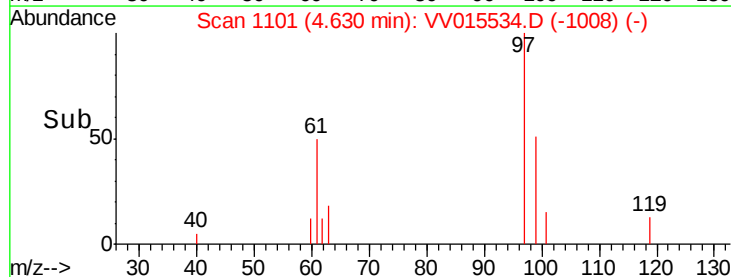
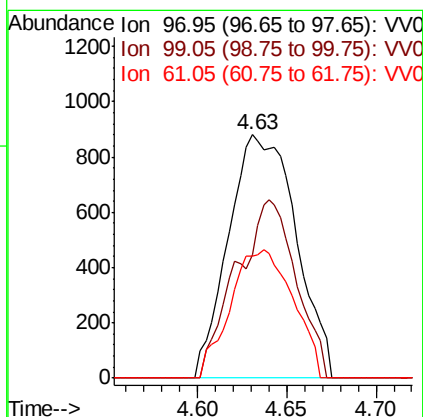
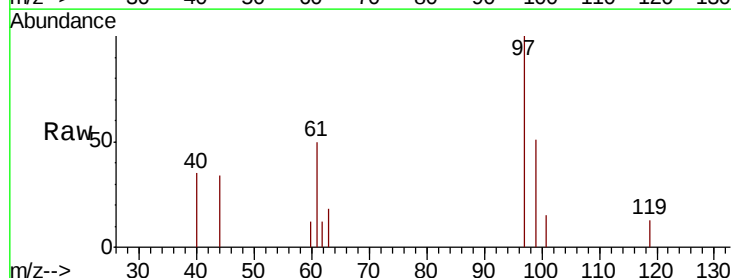
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MSVOA_V
ClientSampleId :

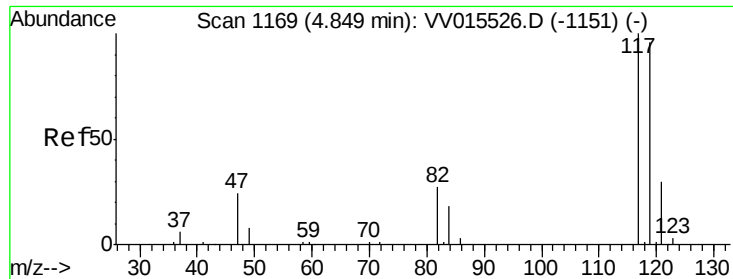
Tot Ion: 83 Resp: 5550
Ion Ratio Lower Upper
83 100
85 76.1 45.9 85.3



#29
1,1,1-Trichloroethane
Concen: 0.178 ug/L
RT: 4.63 min Scan# 1101
Delta R.T. 0.00 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Tgt Ion: 97 Resp: 2321
Ion Ratio Lower Upper
97 100
99 65.0 51.6 77.4
61 49.1 39.0 58.6



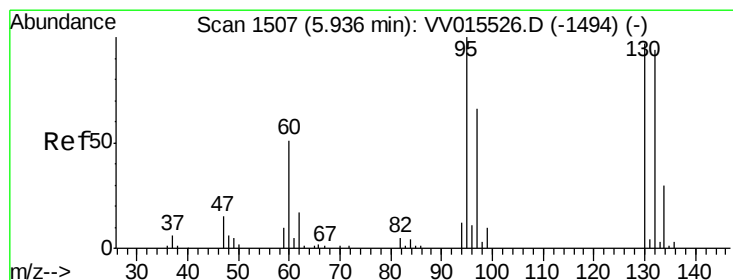
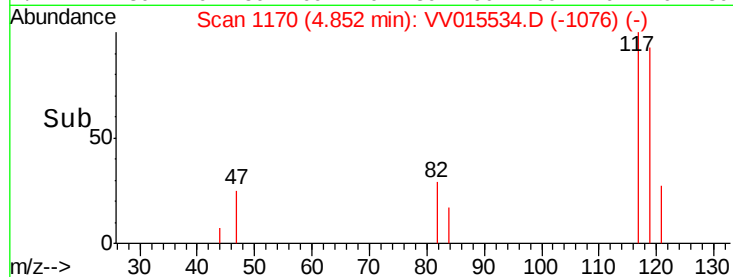
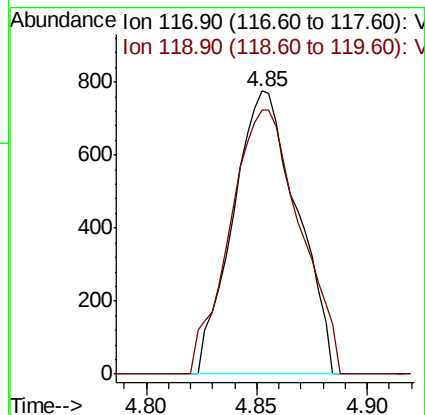
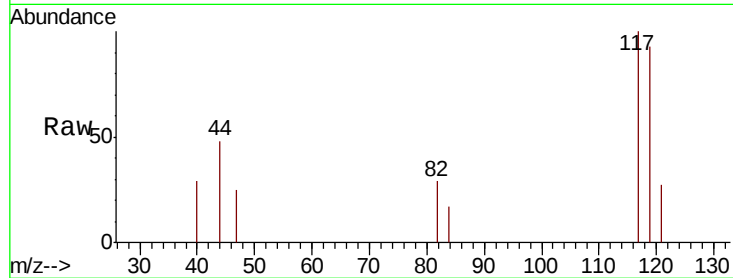


#31

Carbon tetrachloride
Concen: 0.138 ug/L
RT: 4.85 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Instrument :
MSVOA_V
ClientSampleId :

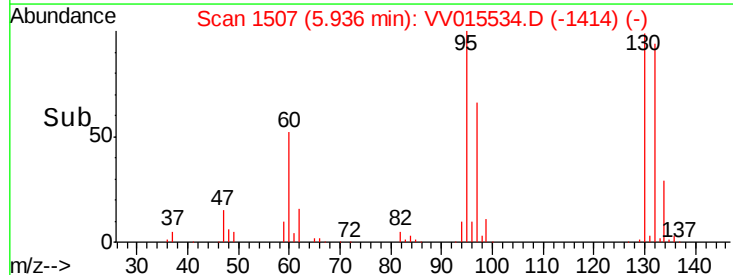
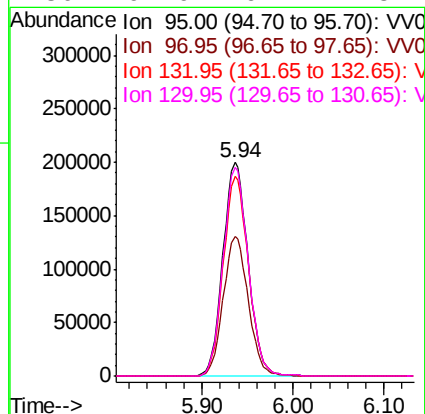
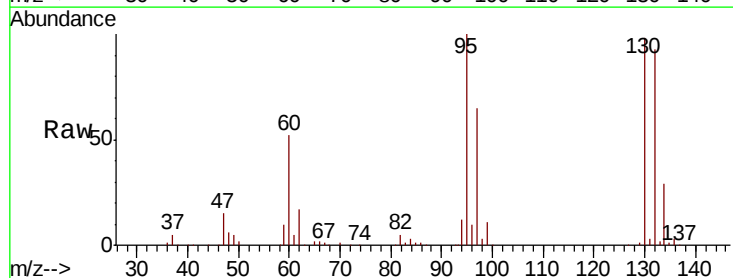
Tot Ion:117 Resp: 1562
Ion Ratio Lower Upper
117 100
119 102.3 76.6 115.0

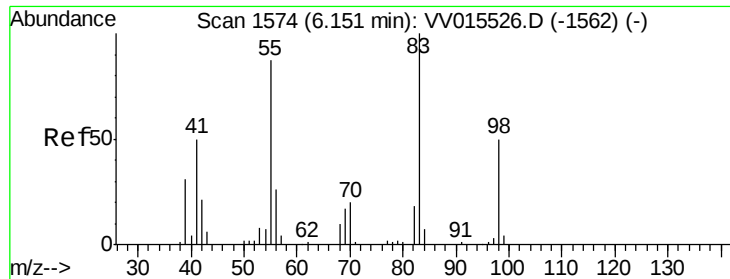


#34

Trichloroethene
Concen: 47.417 ug/L
RT: 5.94 min Scan# 1507
Delta R.T. 0.00 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Tgt Ion: 95 Resp: 384013
Ion Ratio Lower Upper
95 100
97 65.4 45.4 84.4
132 93.3 64.8 120.4
130 97.9 67.4 125.2

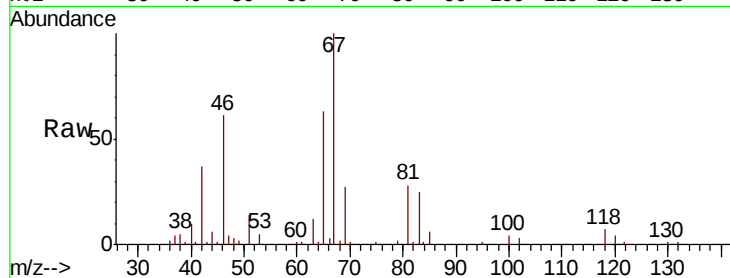




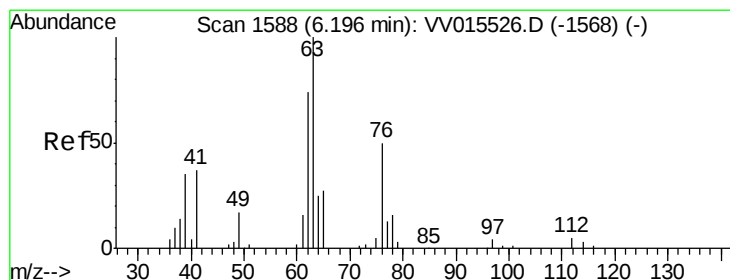
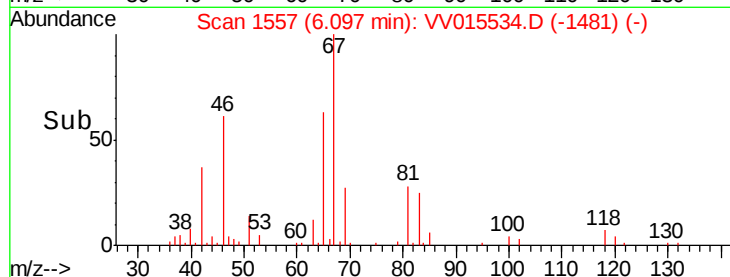
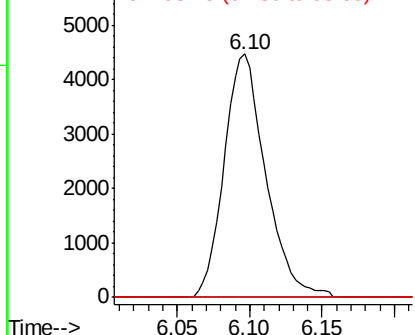
#35
Methvlcvclohexane
Concen: 0.651 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 8889
Ion Ratio Lower Upper
83 100
55 0.0 66.6 99.8#
98 0.0 38.7 58.1#

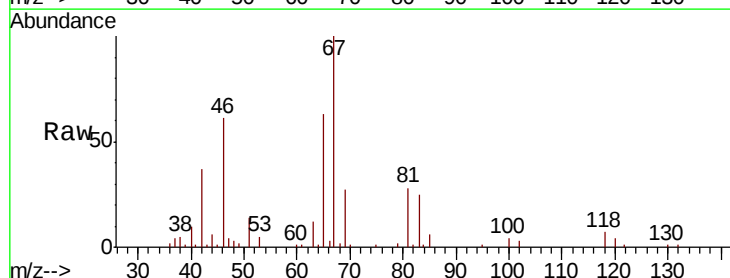


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

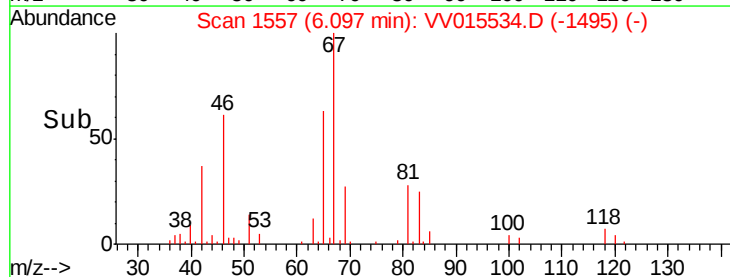
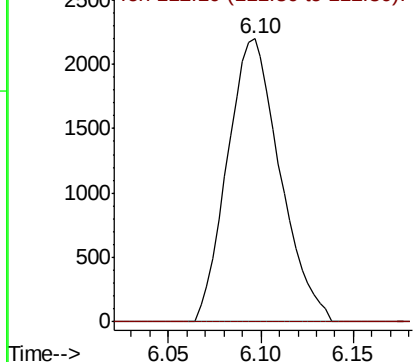


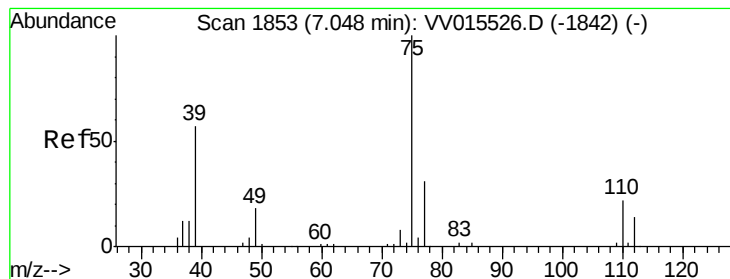
#37
1,2-Dichloropropane
Concen: 0.581 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Tgt Ion: 63 Resp: 4337
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



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



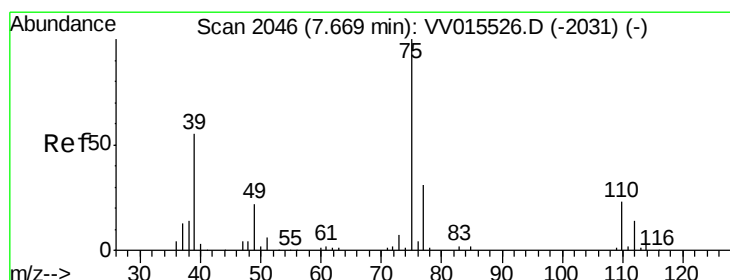
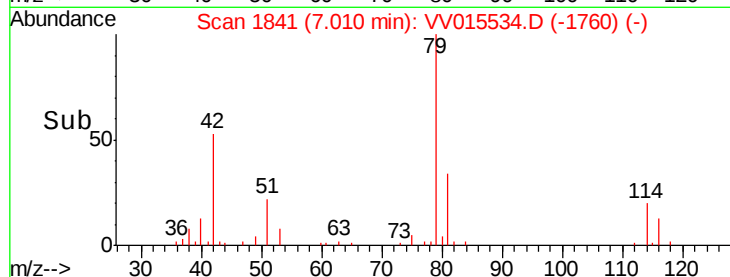
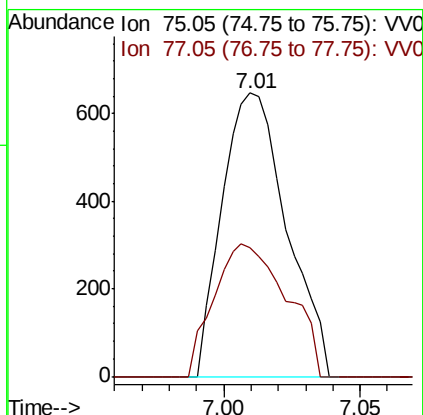
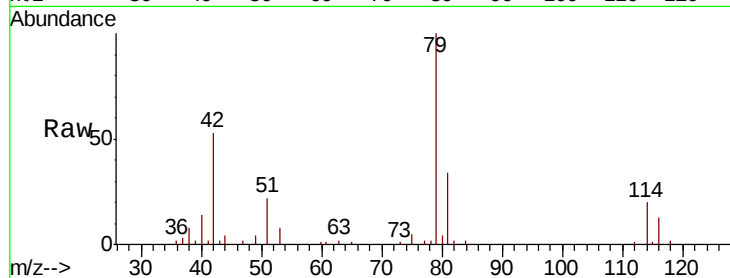


#39

cis-1,3-Dichloropropene
Concen: 0.093 ug/L
RT: 7.01 min Scan# 1841
Delta R.T. -0.04 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Instrument :
MSVOA_V
ClientSampleId :

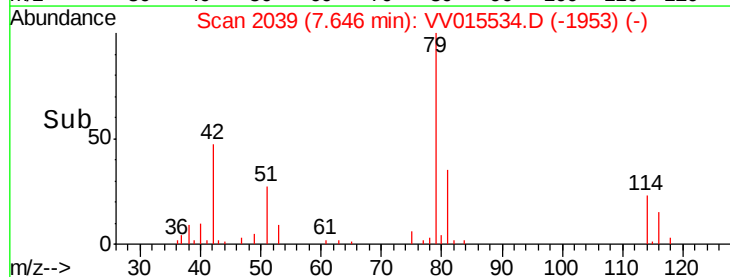
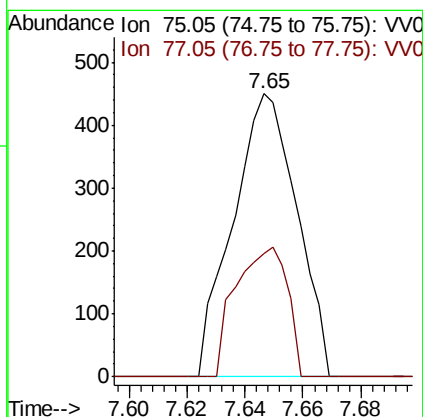
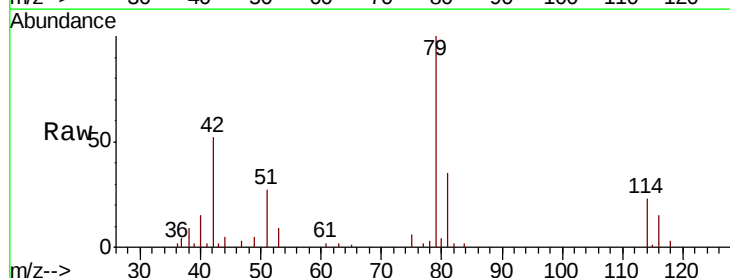
Tot Ion: 75 Resp: 1063
Ion Ratio Lower Upper
75 100
77 45.6 23.0 42.6#

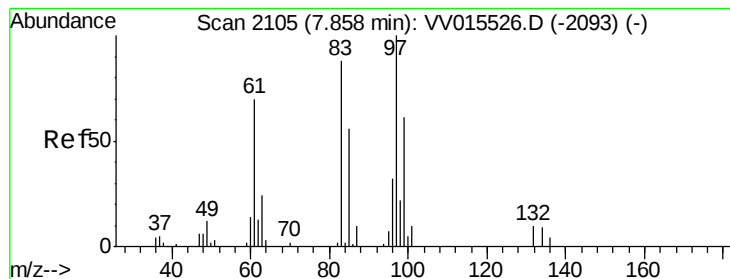


#44

trans-1,3-Dichloropropene
Concen: 0.071 ug/L
RT: 7.65 min Scan# 2039
Delta R.T. -0.02 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Tgt Ion: 75 Resp: 688
Ion Ratio Lower Upper
75 100
77 43.6 21.0 39.0#





#45

1,1,2-Trichloroethane

Concen: 0.570 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.14 min

Lab File: VV015534.D

Acq: 16 Apr 2020 14:14

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 97 Resp: 2857

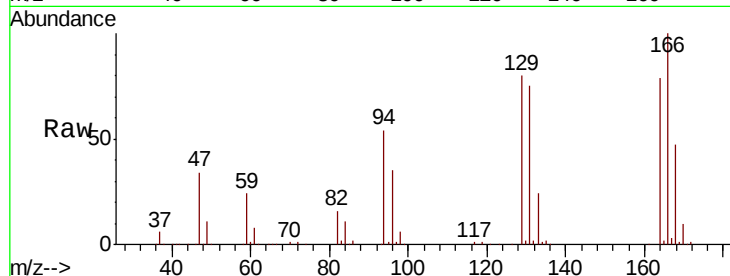
Ion Ratio Lower Upper

97 100

99 15.8 41.3 76.7#

83 216.8 60.5 112.3#

85 37.2 36.8 68.4

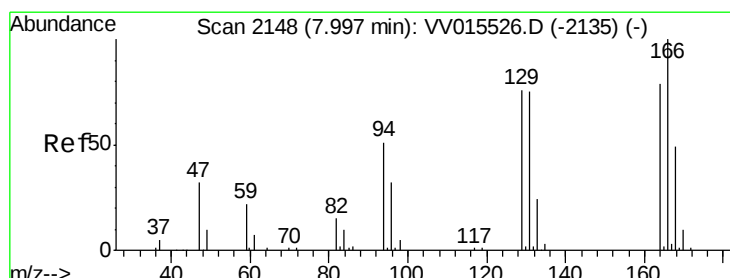
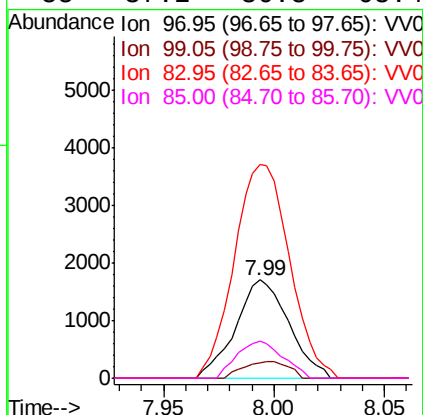
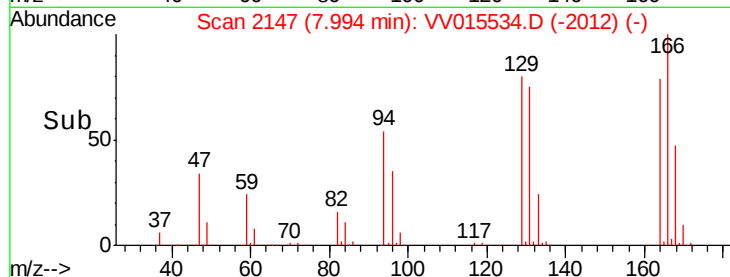


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 46.781 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015534.D

Acq: 16 Apr 2020 14:14

Tgt Ion: 164 Resp: 280701

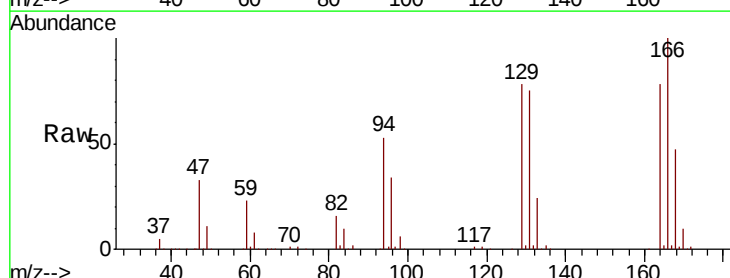
Ion Ratio Lower Upper

164 100

129 100.0 70.6 131.0

131 95.1 68.3 126.8

166 127.4 88.3 163.9

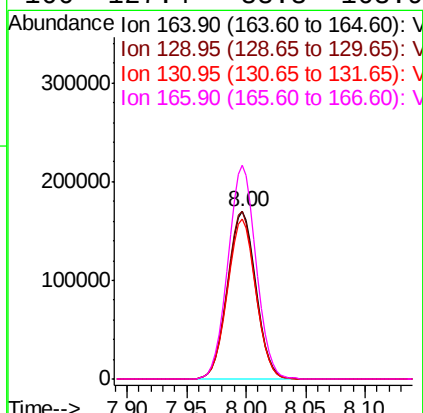
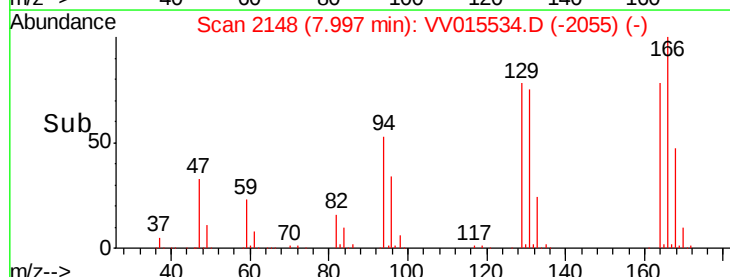


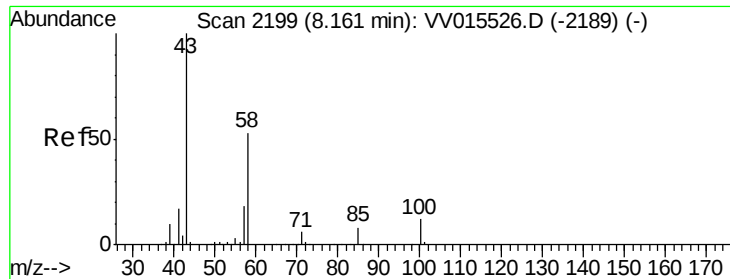
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

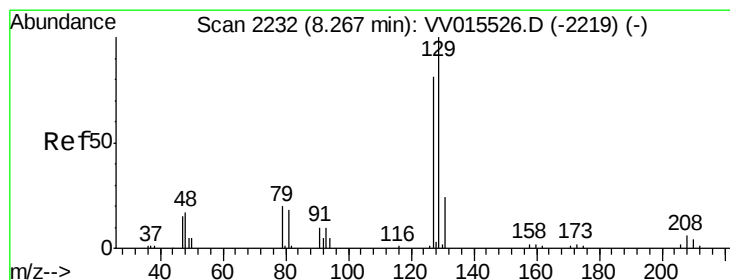
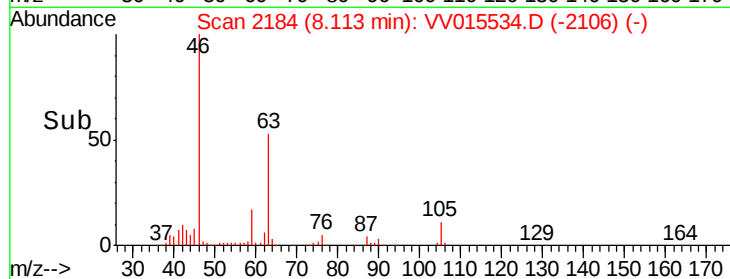
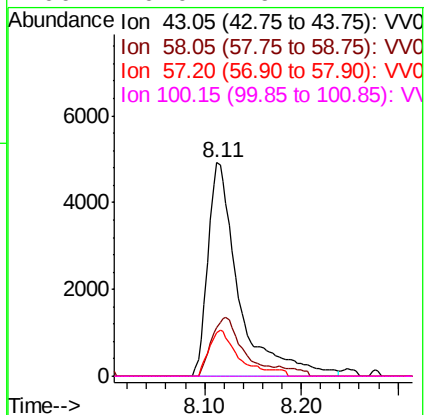
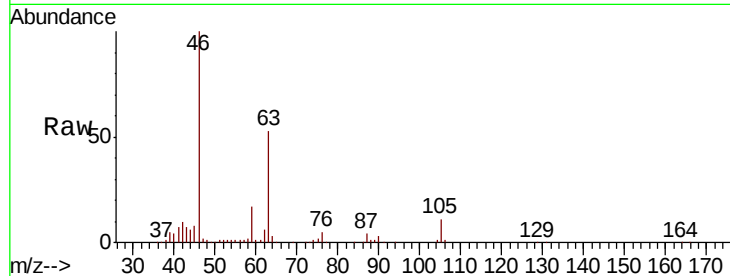




#48
2-Hexanone
Concen: 3.200 ug/L
RT: 8.11 min Scan# 2184
Delta R.T. -0.05 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

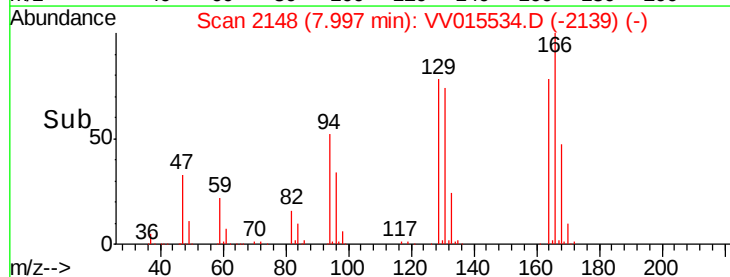
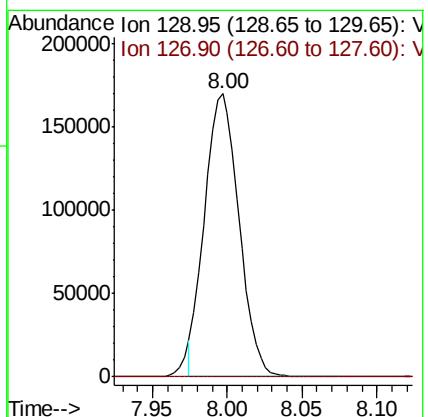
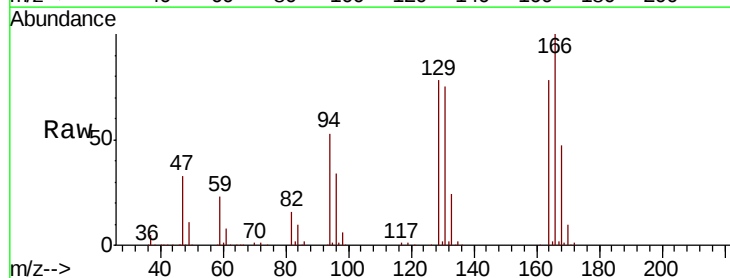
Instrument :
MSVOA_V
ClientSampleId :

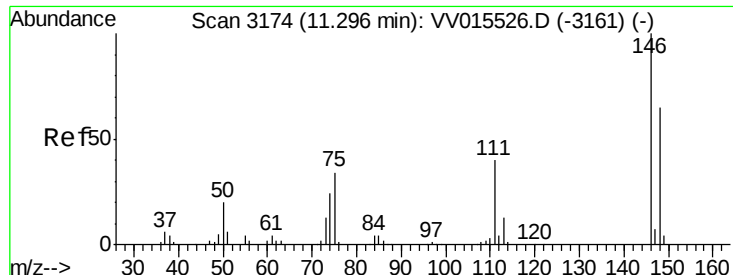
Tot Ion: 43 Resp: 10957
Ion Ratio Lower Upper
43 100
58 27.5 41.4 62.0#
57 19.7 15.0 22.4
100 0.0 9.4 14.2#



#49
Dibromochloromethane
Concen: 44.981 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV015534.D
Acq: 16 Apr 2020 14:14

Tgt Ion: 129 Resp: 270296
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.7#





#63

1,4-Dichlorobenzene

Concen: 0.076 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV015534.D

Acq: 16 Apr 2020 14:14

Instrument :

MSVOA_V

ClientSampleId :

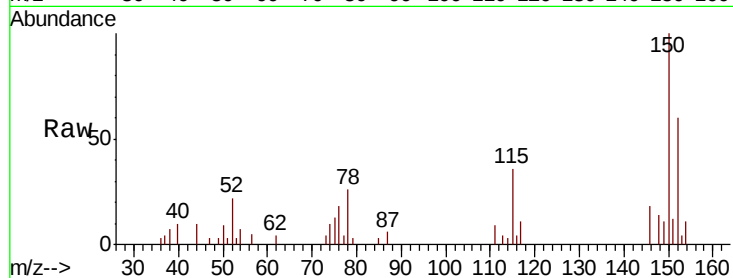
Tot Ion:146 Resp: 1244

Ion Ratio Lower Upper

146 100

111 51.3 29.4 54.6

148 79.5 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

