

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053120\
 Data File : VV016392.D
 Acq On : 31 May 2020 17:02
 Operator : SY/MD
 Sample : L2780-03
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 01 07:20:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR053020WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Jun 01 07:14:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	71910	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	70160	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	28331	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29543	4.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.80%
7) Chloroethane-d5	1.58	69	23638	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.80%
11) 1,1-Dichloroethene-d2	2.13	63	40670	3.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.80%
20) 2-Butanone-d5	3.95	46	71574	52.69	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.38%
24) Chloroform-d	4.38	84	51810	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.06	65	28747	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%
32) Benzene-d6	5.08	84	101966	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.20%
36) 1,2-Dichloropropane-d6	6.10	67	31382	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.34	98	85569	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
45) trans-1,3-Dichloropropene-	7.65	79	9504	4.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.60%
48) 2-Hexanone-d5	8.12	63	50573	48.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.90%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	21800	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	29827	5.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	541	0.092 ug/L	91
3) Chloromethane	1.25	50	1207	0.168 ug/L	90
9) Trichlorofluoromethane	1.77	101	1367	0.157 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3424	0.703 ug/L	98
12) 1,1-Dichloroethene	2.13	96	500	0.108 ug/L #	1
19) 1,1-Dichloroethane	3.22	63	1128	0.116 ug/L #	80
22) cis-1,2-Dichloroethene	3.94	96	3636	0.671 ug/L	97
25) Chloroform	4.40	83	2903	0.299 ug/L	84
27) 1,2-Dichloroethane	5.07	62	673	0.105 ug/L #	76
34) Trichloroethene	5.94	95	6861	1.260 ug/L	93
35) Methylcyclohexane	6.10	83	7737	0.882 ug/L #	15
37) 1,2-Dichloropropane	6.10	63	4005	0.762 ug/L #	87
39) cis-1,3-Dichloropropene	7.02	75	897	0.129 ug/L #	77
46) trans-1,3-Dichloropropene	7.65	75	507	0.088 ug/L	84
49) Tetrachloroethene	8.00	164	966	0.242 ug/L	94
50) 2-Hexanone	8.18	43	1113	0.503 ug/L #	43
51) Dibromochloromethane	8.00	129	1120	0.319 ug/L #	9

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR053020WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 01 07:14:30 2020
Response via : Initial Calibration

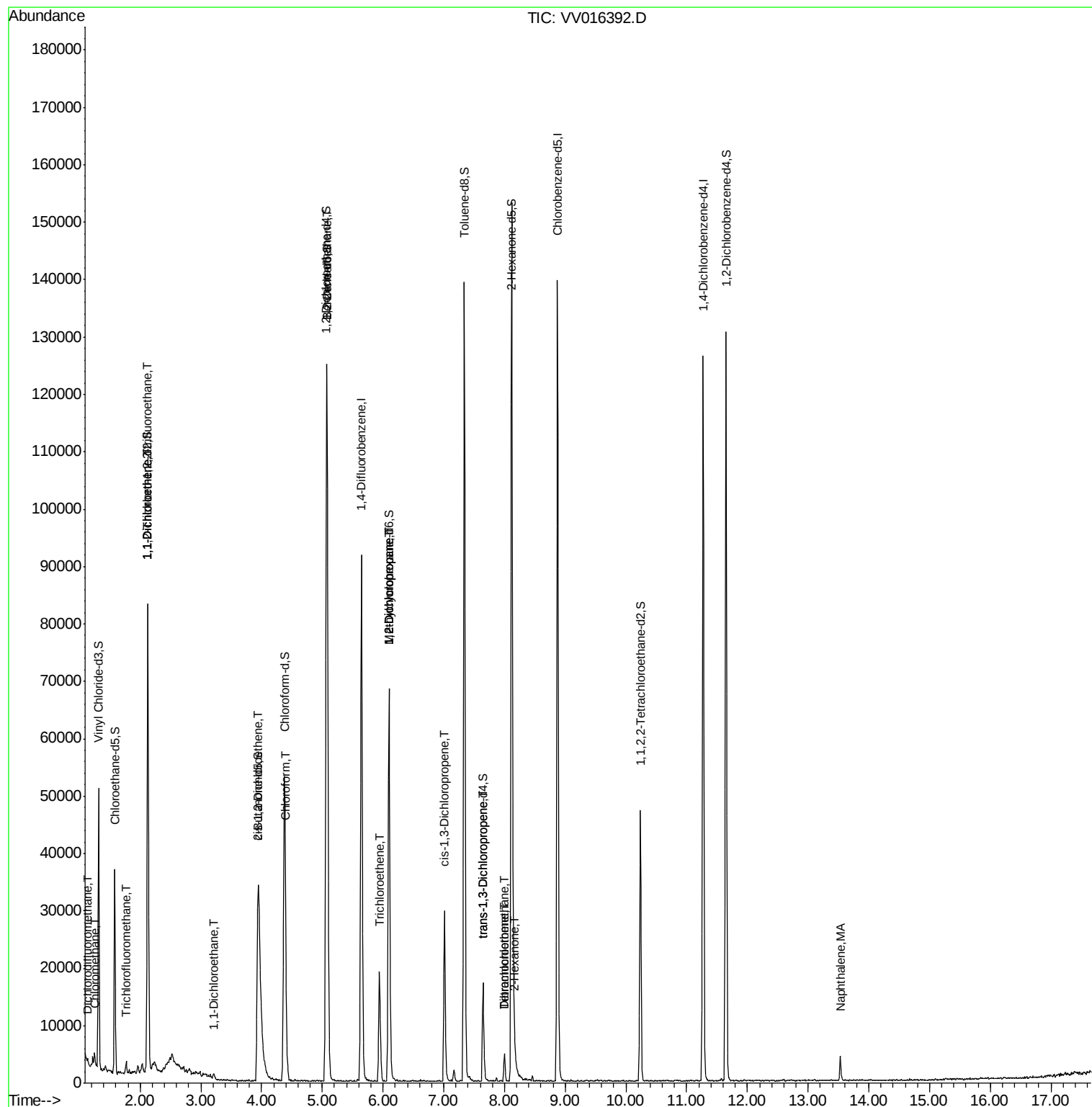
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Naphthalene	13.53	128	3489	0.270	ug/L #	93

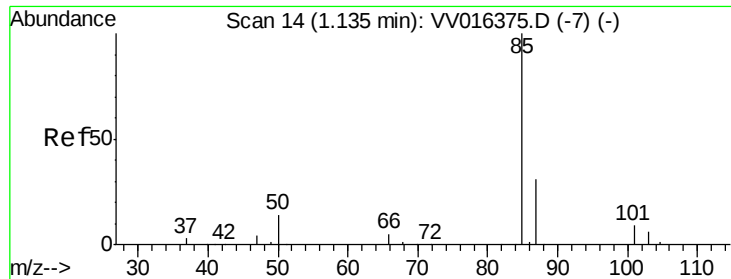
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV053120\
Data File : VV016392.D
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR053020WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 01 07:14:30 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.092 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

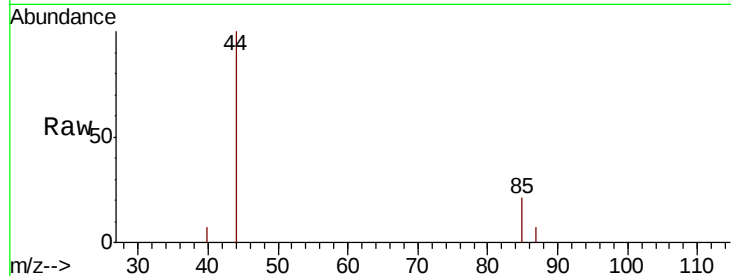
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 541

Ion Ratio Lower Upper

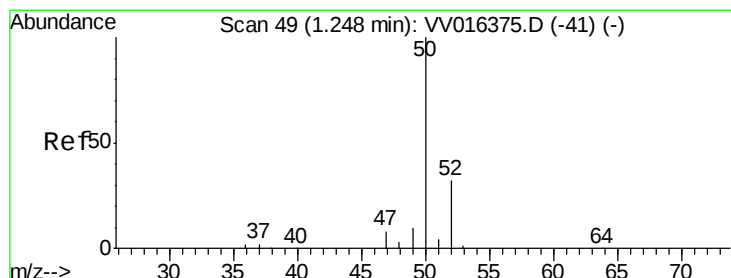
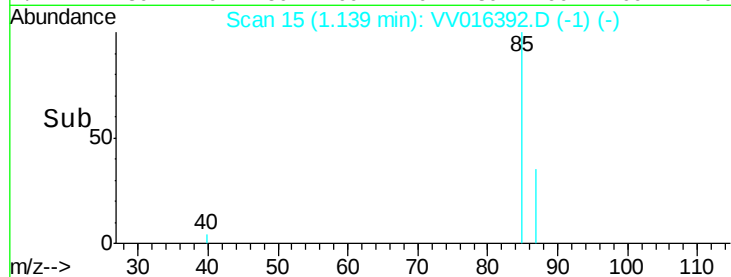
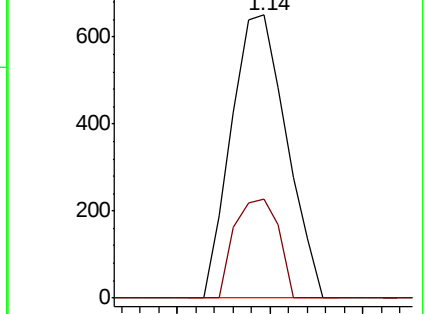
85 100

87 27.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.168 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016392.D

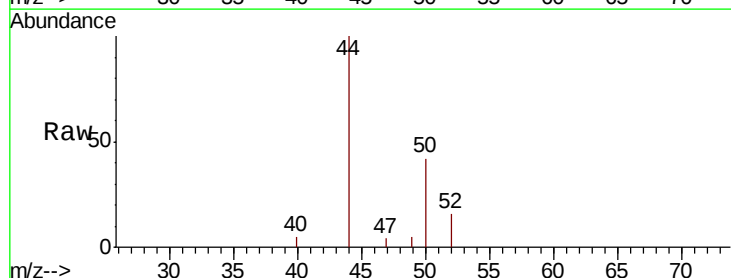
Acq: 31 May 2020 17:02

Tgt Ion: 50 Resp: 1207

Ion Ratio Lower Upper

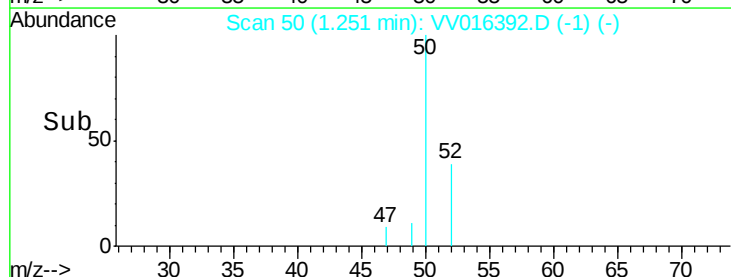
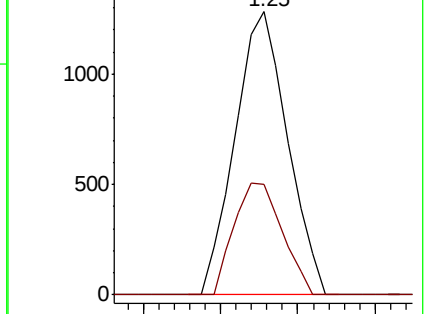
50 100

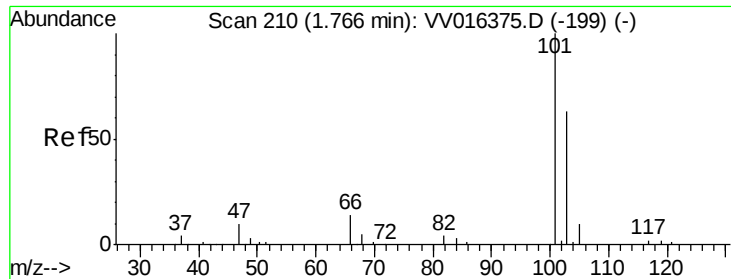
52 38.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



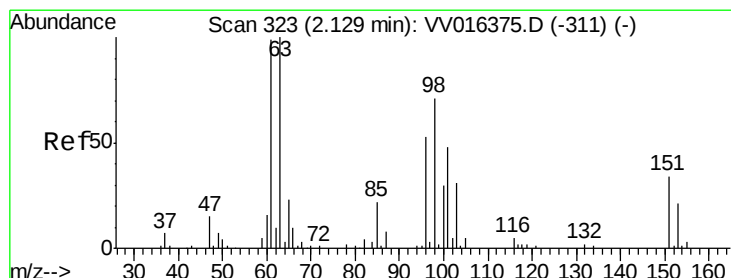
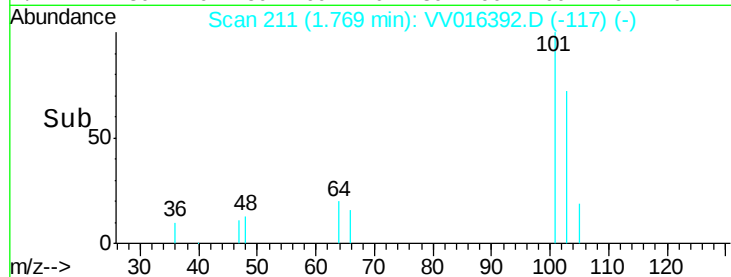
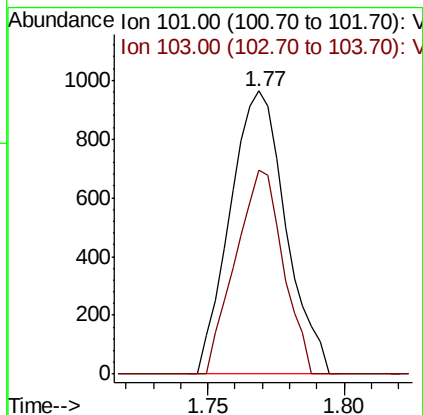
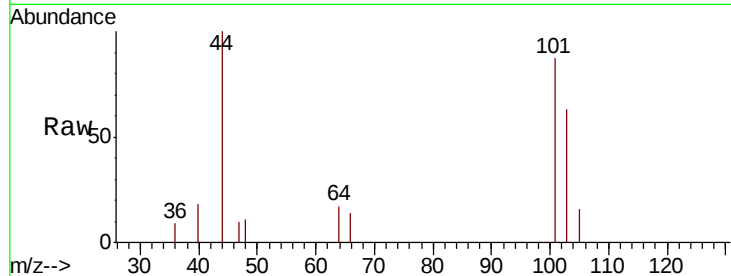


#9

Trichlorofluoromethane
 Concen: 0.157 ug/L
 RT: 1.77 min Scan# 211
 Delta R.T. 0.00 min
 Lab File: VV016392.D
 Acq: 31 May 2020 17:02

Instrument :
 MSVOA_V
 ClientSampled :

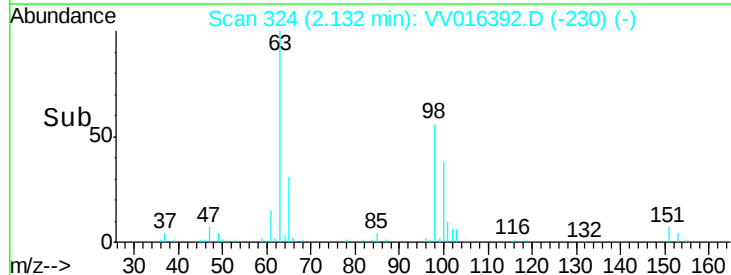
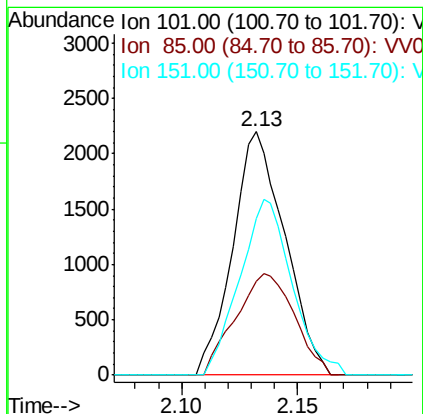
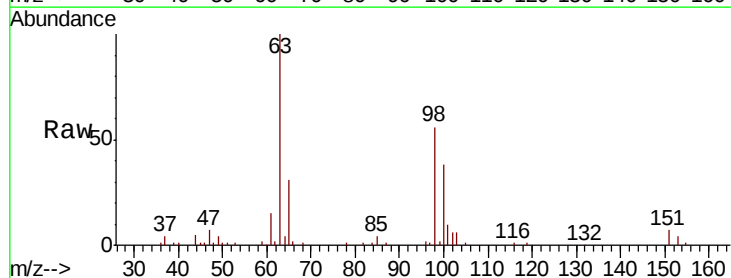
Tot Ion:101 Resp: 1367
 Ion Ratio Lower Upper
 101 100
 103 61.4 52.2 78.4

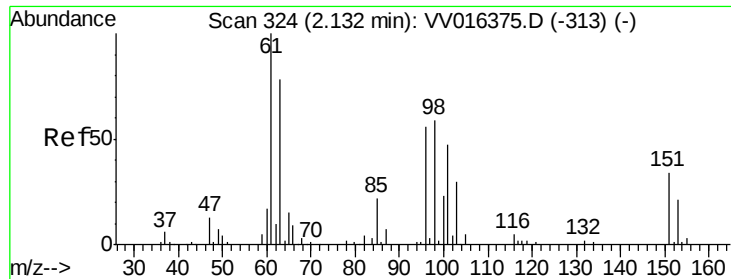


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.703 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. 0.00 min
 Lab File: VV016392.D
 Acq: 31 May 2020 17:02

Tgt Ion:101 Resp: 3424
 Ion Ratio Lower Upper
 101 100
 85 47.1 35.7 53.5
 151 72.8 57.2 85.8





#12

1,1-Dichloroethene

Concen: 0.108 ug/L

RT: 2.13 min Scan# 324

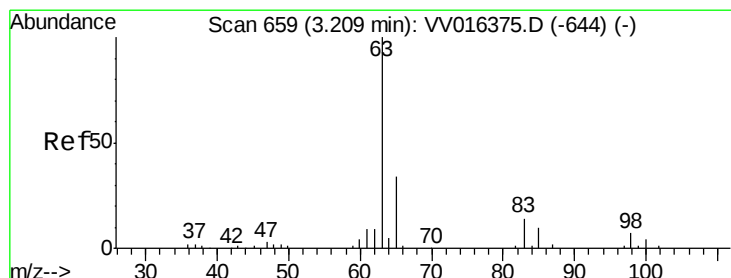
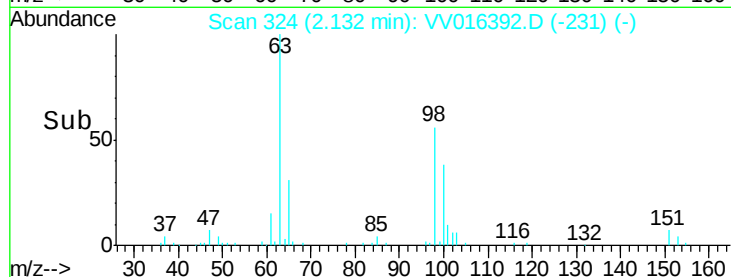
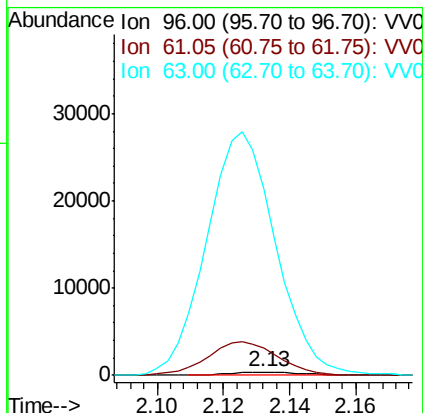
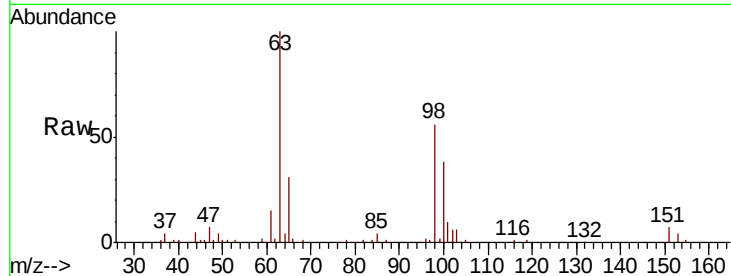
Delta R.T. -0.00 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 96 Resp: 500
Ion Ratio Lower Upper
96 100
61 887.9 125.4 233.0#
63 6040.7 88.2 163.8#



#19

1,1-Dichloroethane

Concen: 0.116 ug/L

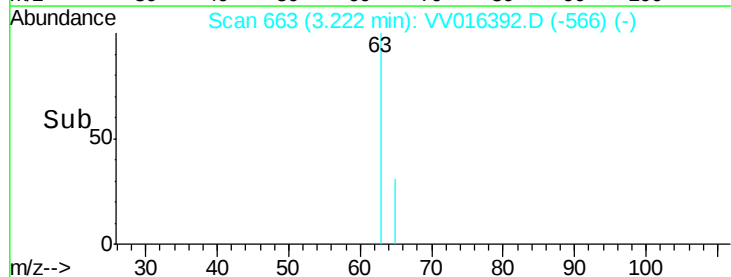
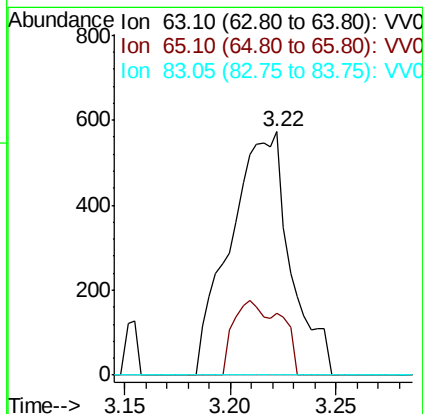
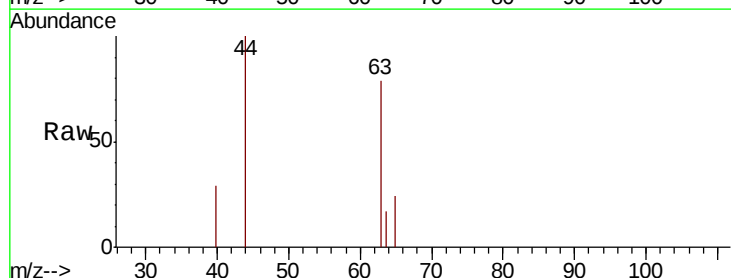
RT: 3.22 min Scan# 663

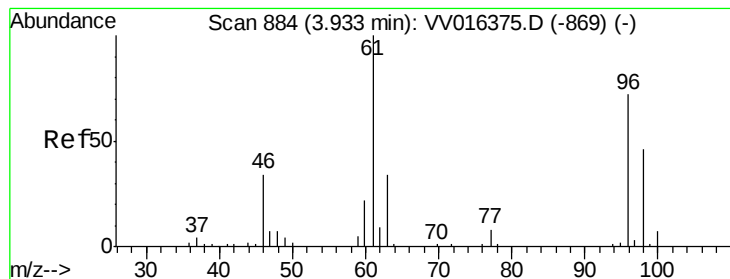
Delta R.T. 0.01 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Tgt Ion: 63 Resp: 1128
Ion Ratio Lower Upper
63 100
65 25.3 23.3 43.3
83 0.0 9.9 18.3#





#22

cis-1,2-Dichloroethene

Concen: 0.671 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

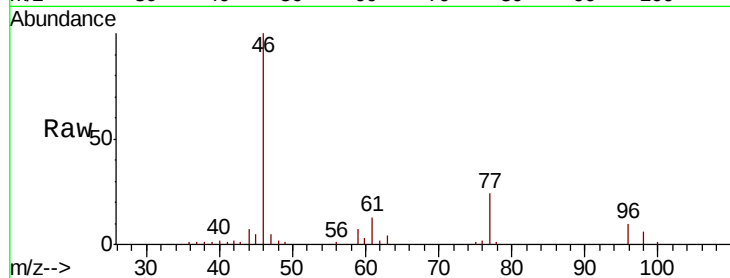
Lab File: VV016392.D

Acq: 31 May 2020 17:02

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 3636

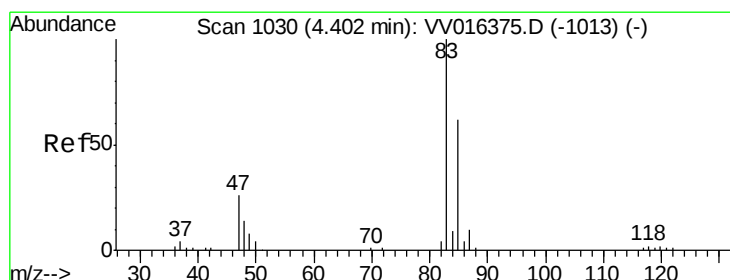
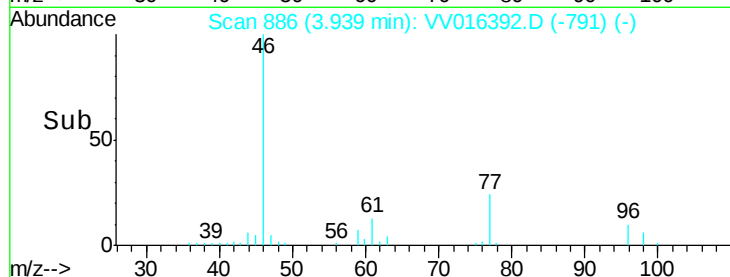
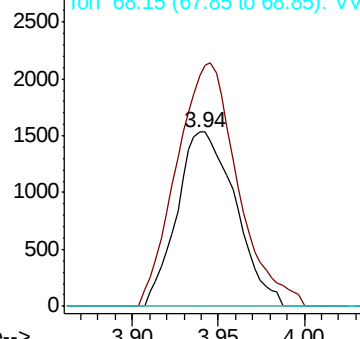
Ion	Ratio	Lower	Upper
96	100		
61	132.1	94.8	176.0
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VV016375.D (-869) (-)

Ion 61.05 (60.75 to 61.75): VV016375.D (-869) (-)

Ion 68.15 (67.85 to 68.85): VV016375.D (-869) (-)



#25

Chloroform

Concen: 0.299 ug/L

RT: 4.40 min Scan# 1030

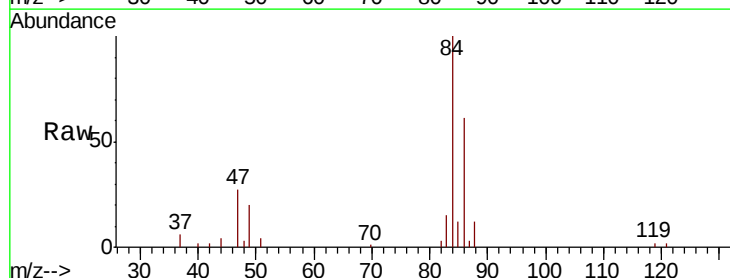
Delta R.T. -0.00 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

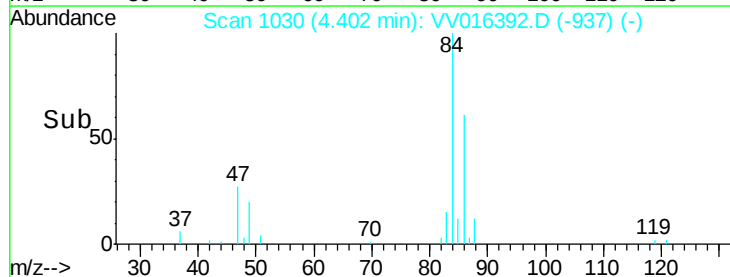
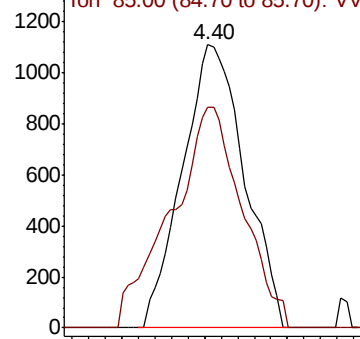
Tgt Ion: 83 Resp: 2903

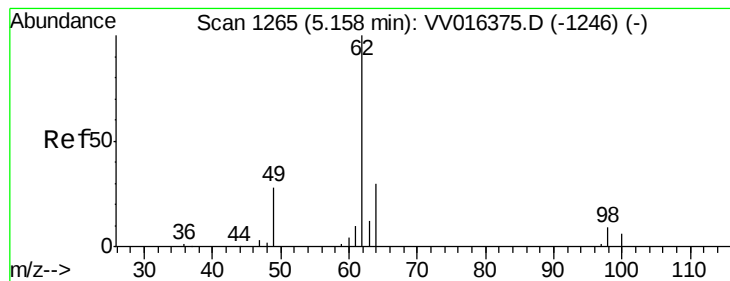
Ion	Ratio	Lower	Upper
83	100		
85	78.0	45.8	85.2



Abundance Ion 83.05 (82.75 to 83.75): VV016375.D (-1013) (-)

Ion 85.00 (84.70 to 85.70): VV016375.D (-1013) (-)





#27

1,2-Dichloroethane

Concen: 0.105 ug/L

RT: 5.07 min Scan# 1238

Delta R.T. -0.09 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Instrument :

MSVOA_V

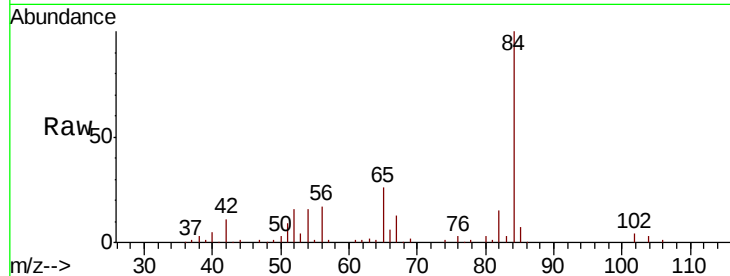
ClientSampleId :

Tot Ion: 62 Resp: 673

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#



Abundance Ion 62.00 (61.70 to 62.70): VV016392.D (-1172) (-)

Ion 98.05 (97.75 to 98.75): VV016392.D (-1172) (-)

5.07

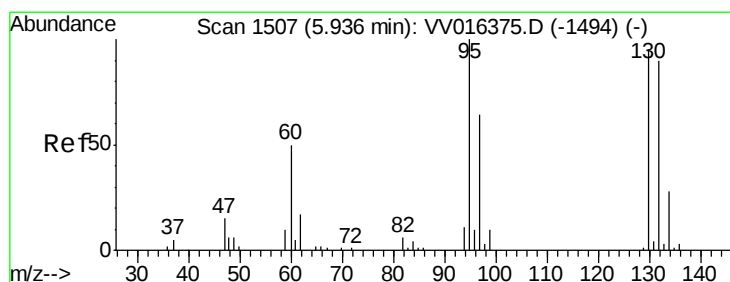
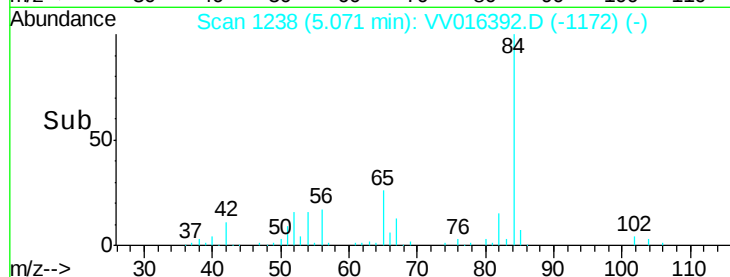
300

200

100

0

Time-->



#34

Trichloroethene

Concen: 1.260 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Tgt Ion: 95 Resp: 6861

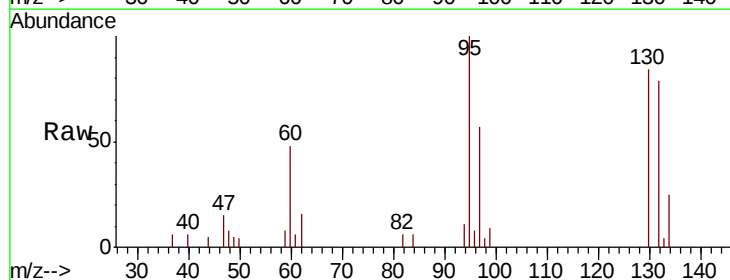
Ion Ratio Lower Upper

95 100

97 56.9 42.6 79.0

132 79.2 59.6 110.8

130 84.1 64.8 120.4



Abundance Ion 95.00 (94.70 to 95.70): VV016392.D (-1414) (-)

Ion 96.95 (96.65 to 97.65): VV016392.D (-1414) (-)

Ion 131.95 (131.65 to 132.65): VV016392.D (-1414) (-)

Ion 129.95 (129.65 to 130.65): VV016392.D (-1414) (-)

5000

4000

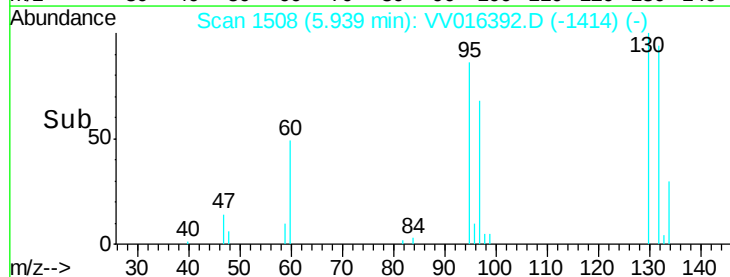
3000

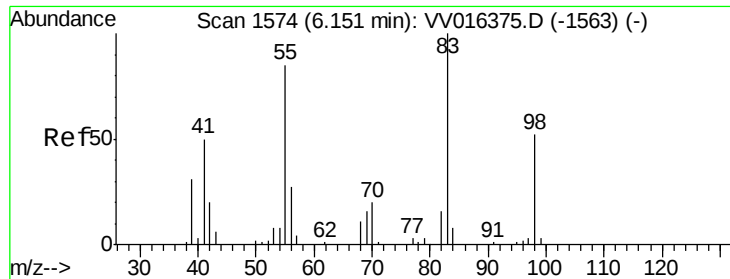
2000

1000

0

Time-->

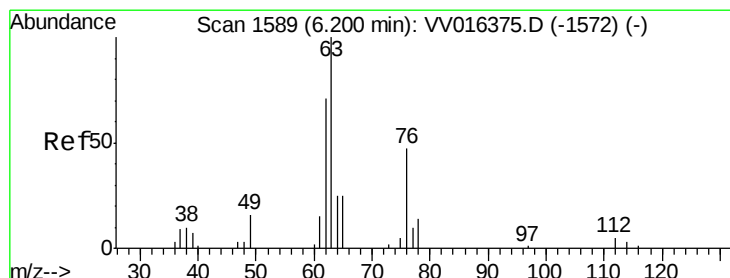
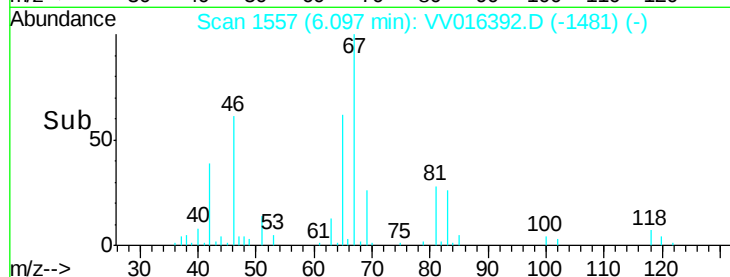
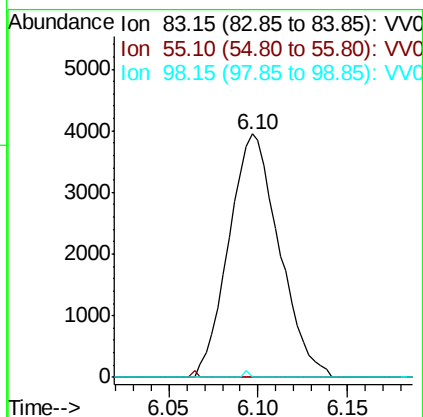
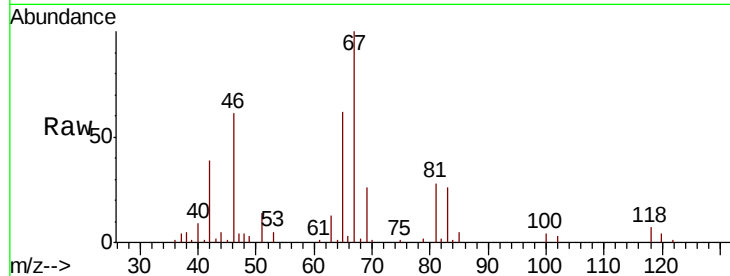




#35
Methvlcvclohexane
Concen: 0.882 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV016392.D
Acq: 31 May 2020 17:02

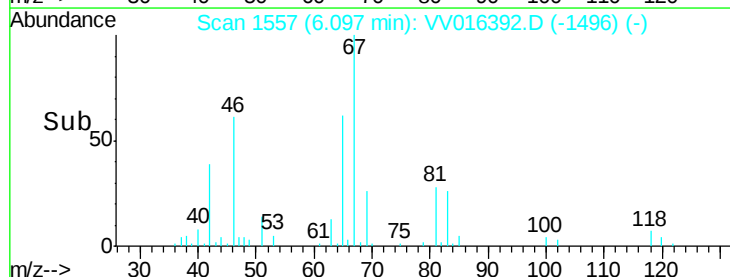
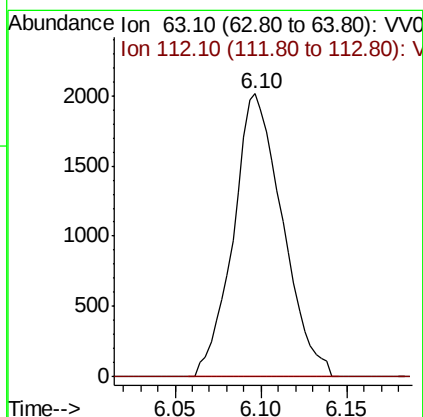
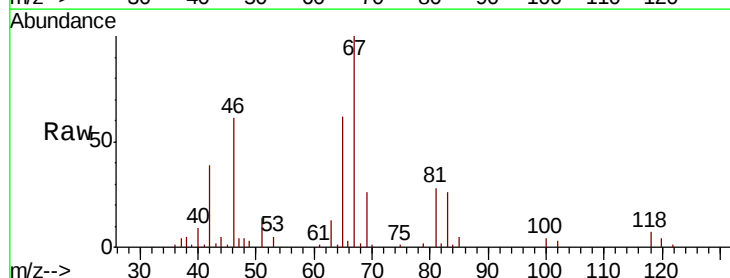
Instrument :
MSVOA_V
ClientSampleId :

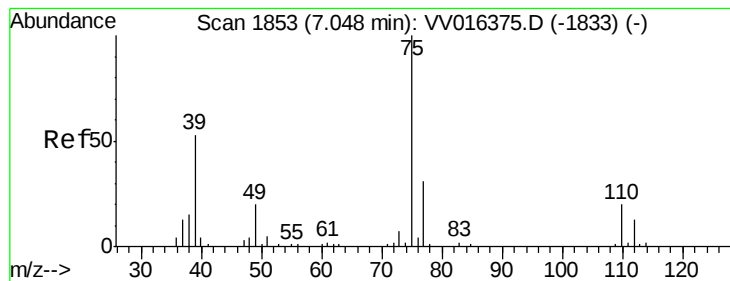
Tot Ion: 83 Resp: 7737
Ion Ratio Lower Upper
83 100
55 0.3 67.0 100.4#
98 0.3 39.0 58.4#



#37
1,2-Dichloropropane
Concen: 0.762 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV016392.D
Acq: 31 May 2020 17:02

Tgt Ion: 63 Resp: 4005
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



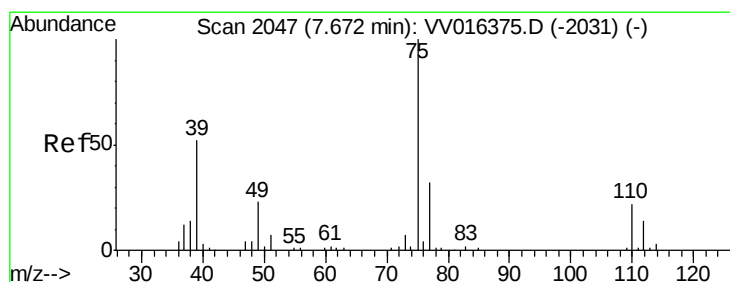
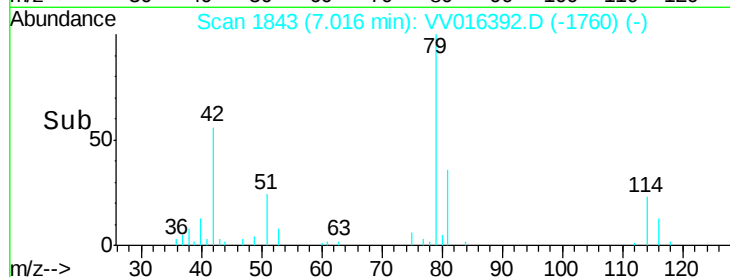
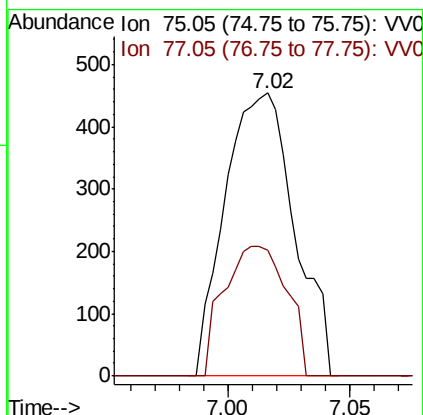
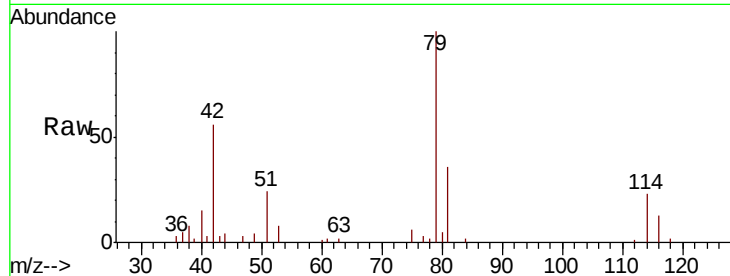


#39

cis-1,3-Dichloropropene
 Concen: 0.129 ug/L
 RT: 7.02 min Scan# 1843
 Delta R.T. -0.03 min
 Lab File: VV016392.D
 Acq: 31 May 2020 17:02

Instrument :
 MSVOA_V
 ClientSampled :

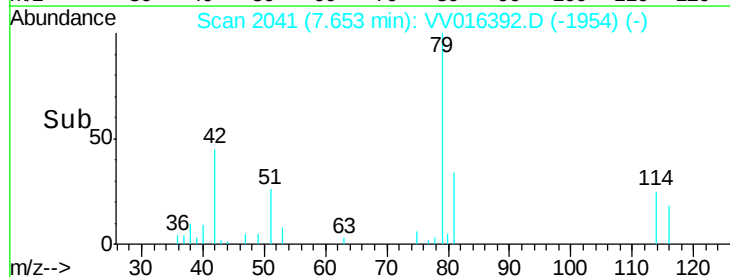
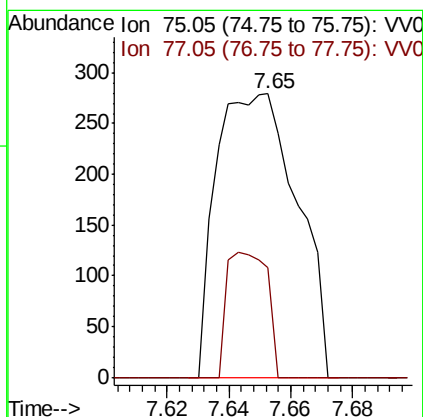
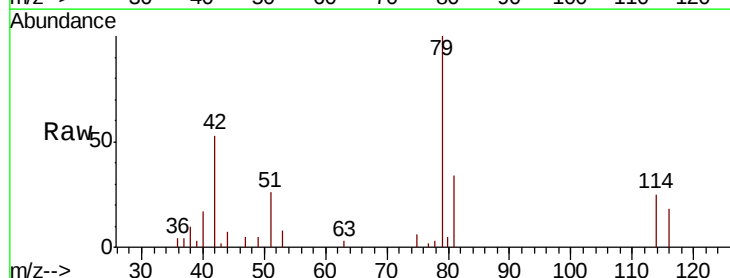
Tot Ion: 75 Resp: 897
 Ion Ratio Lower Upper
 75 100
 77 44.3 22.0 41.0#

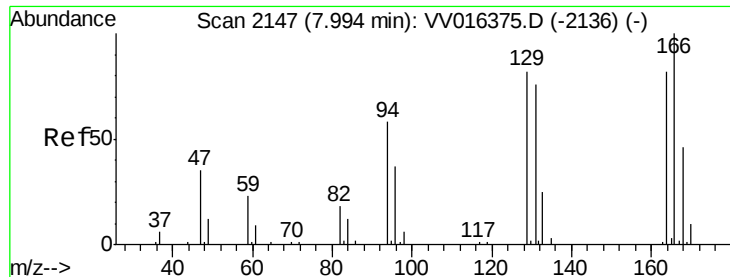


#46

trans-1,3-Dichloropropene
 Concen: 0.088 ug/L
 RT: 7.65 min Scan# 2041
 Delta R.T. -0.02 min
 Lab File: VV016392.D
 Acq: 31 May 2020 17:02

Tgt Ion: 75 Resp: 507
 Ion Ratio Lower Upper
 75 100
 77 38.7 21.1 39.3





#49

Tetrachloroethene

Concen: 0.242 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 966

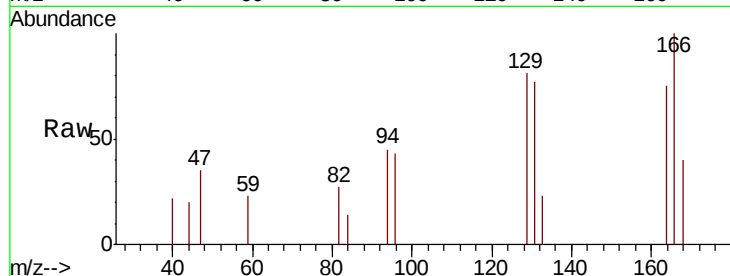
Ion Ratio Lower Upper

164 100

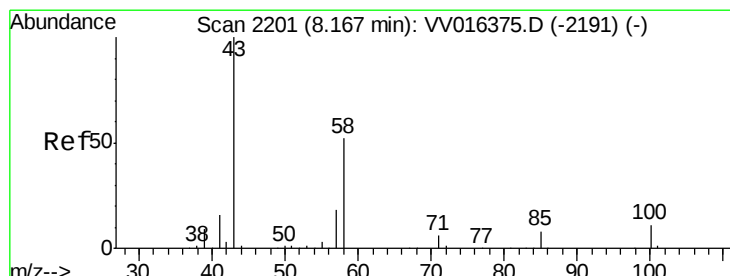
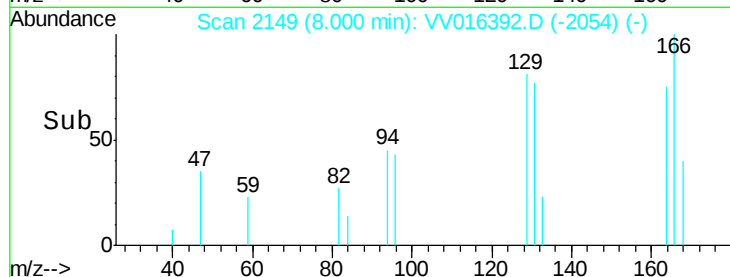
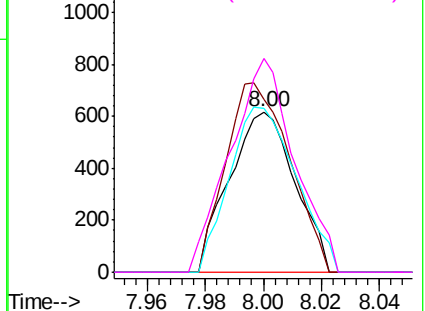
129 107.8 72.2 134.0

131 101.9 65.8 122.2

166 133.2 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



#50

2-Hexanone

Concen: 0.503 ug/L

RT: 8.18 min Scan# 2204

Delta R.T. 0.01 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Tgt Ion: 43 Resp: 1113

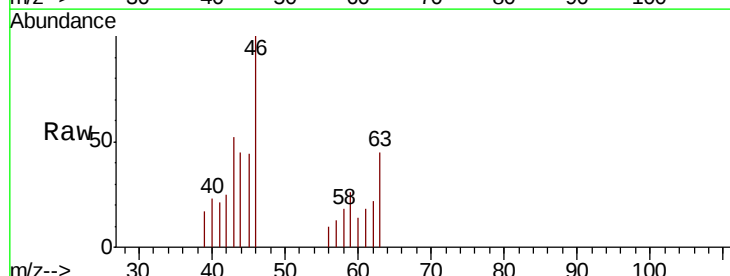
Ion Ratio Lower Upper

43 100

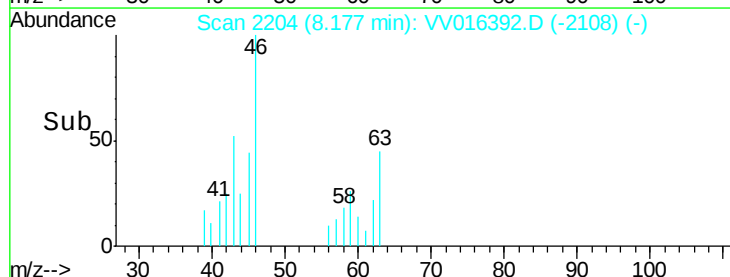
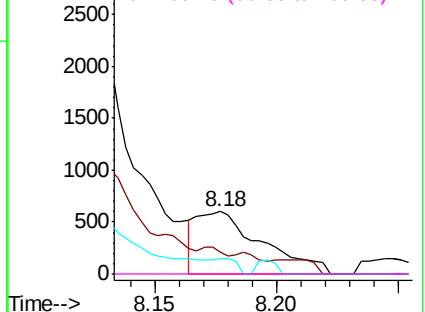
58 0.0 41.1 61.7#

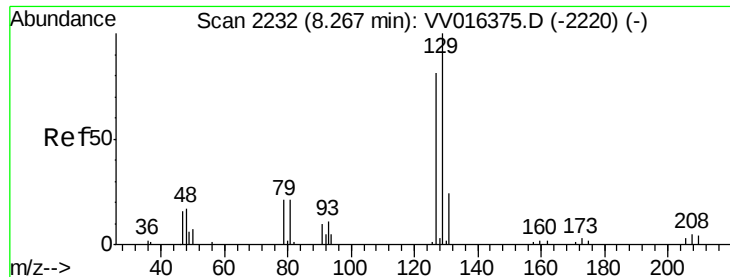
57 6.2 14.2 21.4#

100 0.0 8.8 13.2#



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





#51

Dibromochloromethane

Concen: 0.319 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

Instrument :

MSVOA_V

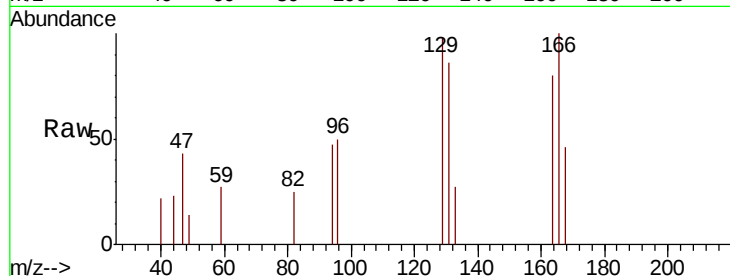
ClientSampled :

Tot Ion:129 Resp: 1120

Ion Ratio Lower Upper

129 100

127 0.0 57.0 105.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.00

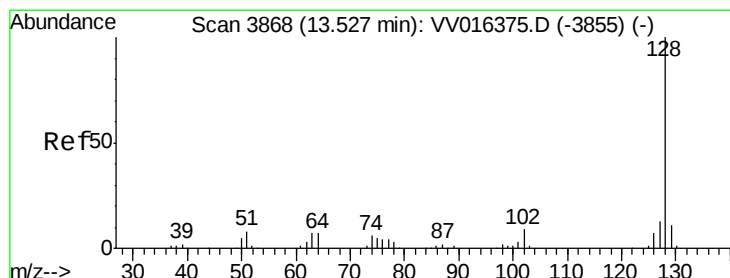
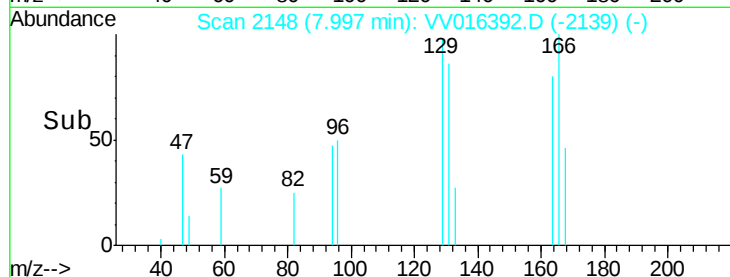
600

400

200

0

Time-->



#70

Naphthalene

Concen: 0.270 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV016392.D

Acq: 31 May 2020 17:02

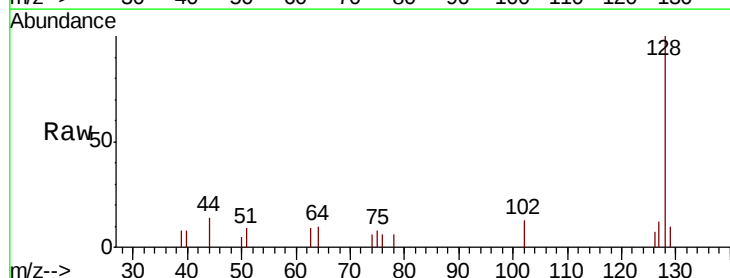
Tgt Ion:128 Resp: 3489

Ion Ratio Lower Upper

128 100

129 7.7 8.6 12.8#

127 10.7 10.7 16.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

13.53

2000

1500

1000

500

0

Time-->

