

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053120\
 Data File : VV016391.D
 Acq On : 31 May 2020 16:38
 Operator : SY/MD
 Sample : L2780-02
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 01 07:20:24 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	72367	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	70968	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	30610	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29333	4.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.60%
7) Chloroethane-d5	1.58	69	23493	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.60%
11) 1,1-Dichloroethene-d2	2.13	63	41657	3.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.20%
20) 2-Butanone-d5	3.95	46	69698	50.99	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.98%
24) Chloroform-d	4.38	84	51740	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.06	65	28874	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.08	84	101634	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
36) 1,2-Dichloropropane-d6	6.10	67	31396	5.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.80%
41) Toluene-d8	7.34	98	87262	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
45) trans-1,3-Dichloropropene-	7.65	79	9173	4.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.60%
48) 2-Hexanone-d5	8.12	63	50201	48.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.08%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	21991	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	29288	5.15	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.00%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	1178	0.163	ug/L 91
9) Trichlorofluoromethane	1.77	101	823	0.094	ug/L 85
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2694	0.550	ug/L 87
12) 1,1-Dichloroethene	2.12	96	476	0.102	ug/L # 1
13) Acetone	2.23	43	6790	7.384	ug/L 69
19) 1,1-Dichloroethane	3.22	63	1988	0.204	ug/L 94
22) cis-1,2-Dichloroethene	3.95	96	3787	0.694	ug/L 91
25) Chloroform	4.40	83	3074	0.315	ug/L 98
27) 1,2-Dichloroethane	5.08	62	685	0.106	ug/L # 76
34) Trichloroethene	5.94	95	8760	1.590	ug/L 98
35) Methylcyclohexane	6.10	83	7577	0.854	ug/L # 22
37) 1,2-Dichloropropane	6.10	63	3820	0.719	ug/L # 87
39) cis-1,3-Dichloropropene	7.01	75	712	0.101	ug/L # 66
46) trans-1,3-Dichloropropene	7.64	75	439	0.076	ug/L # 41
49) Tetrachloroethene	8.00	164	817	0.202	ug/L 94
50) 2-Hexanone	8.12	43	7423	3.317	ug/L # 86
51) Dibromochloromethane	8.00	129	1015	0.286	ug/L # 9

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 01 07:14:30 2020
Response via : Initial Calibration

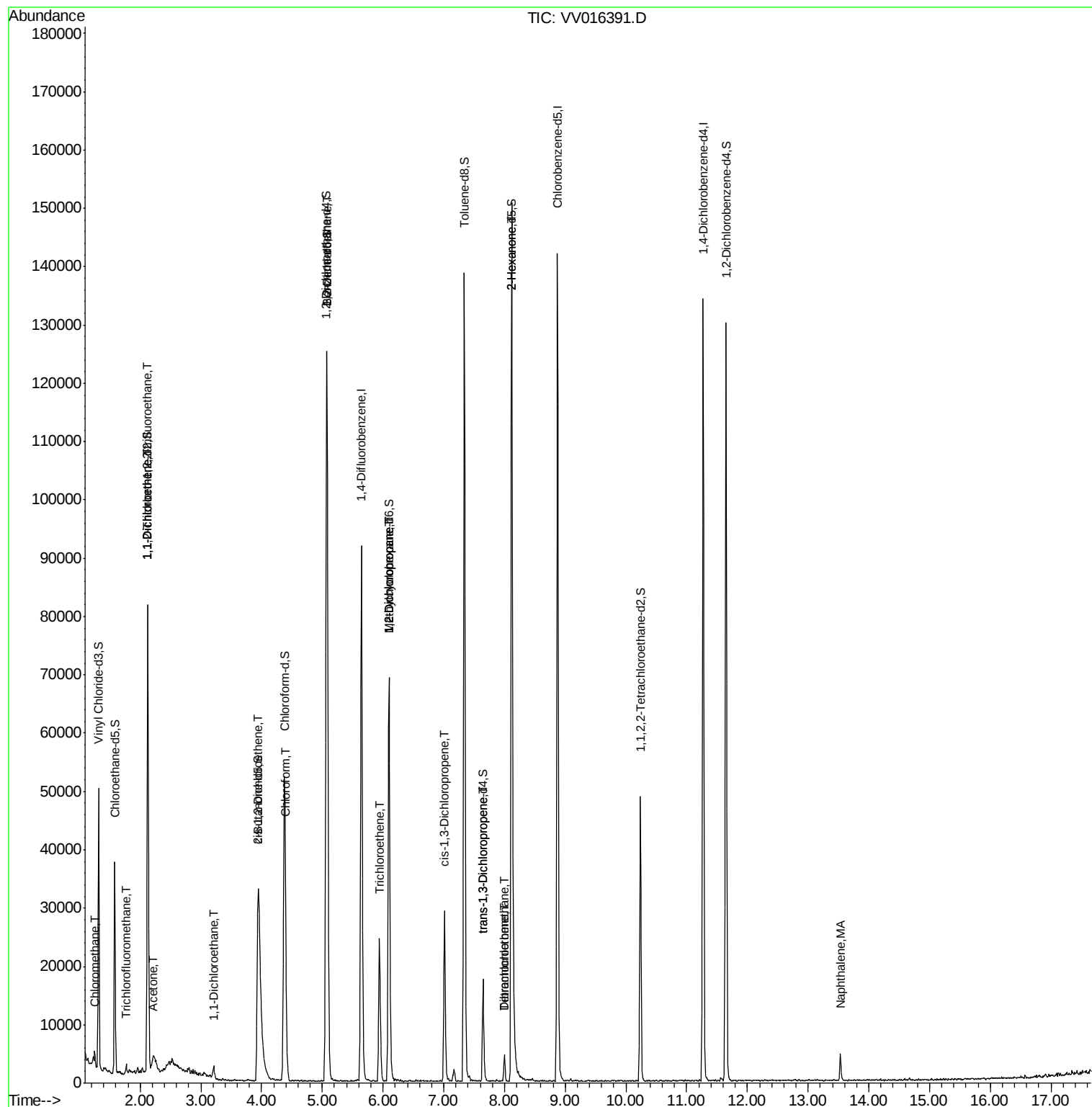
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Naphthalene	13.53	128	3773	0.270	ug/L	95

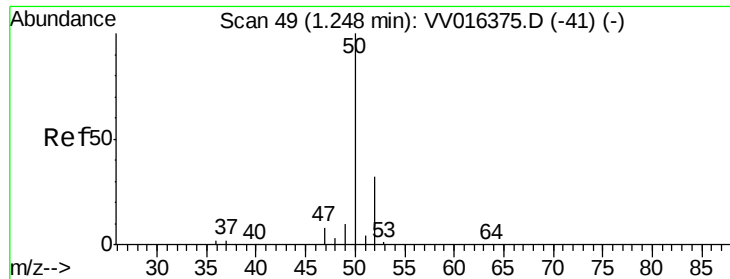
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.163 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

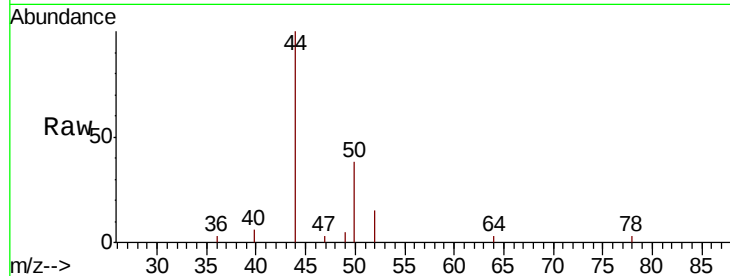
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 50 Resp: 1178

Ion Ratio Lower Upper

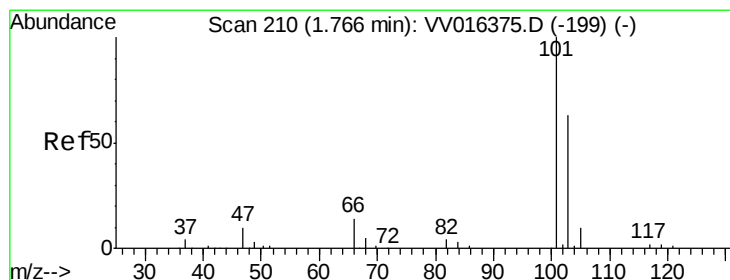
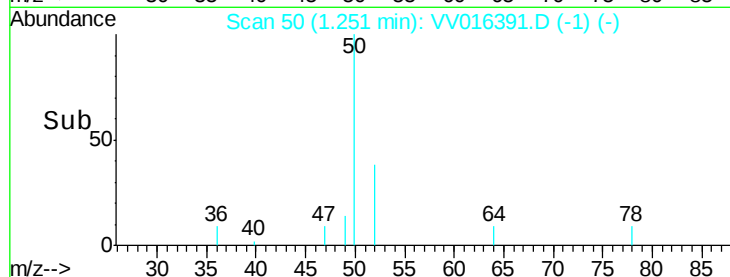
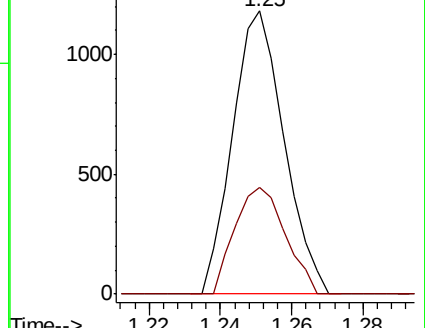
50 100

52 37.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV016391.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV016391.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.094 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV016391.D

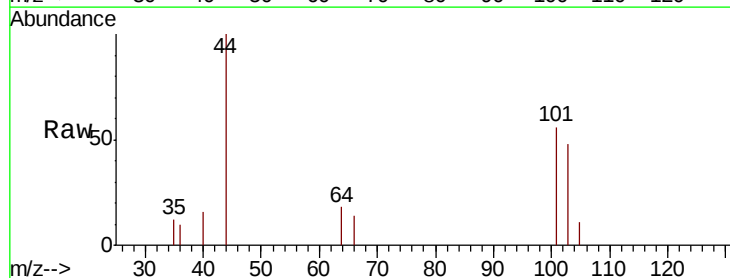
Acq: 31 May 2020 16:38

Tgt Ion: 101 Resp: 823

Ion Ratio Lower Upper

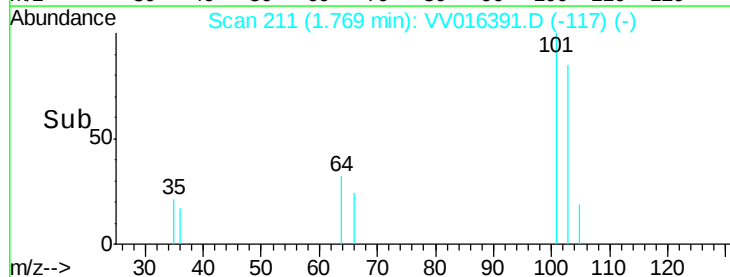
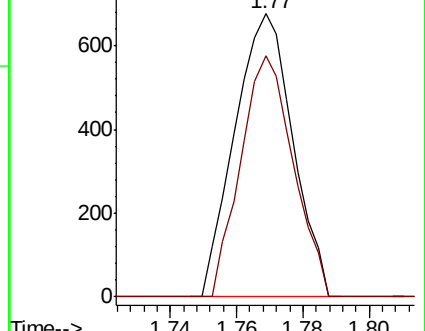
101 100

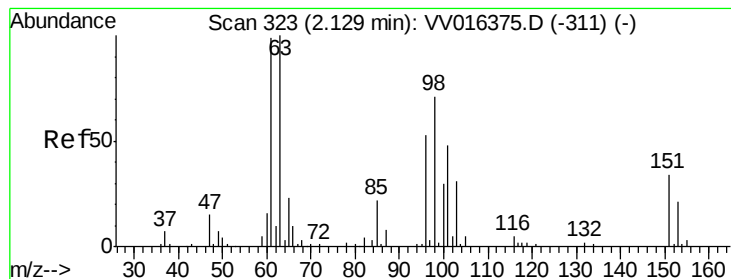
103 77.0 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VV016391.D (-117) (-)

Ion 103.00 (102.70 to 103.70): VV016391.D (-117) (-)





#10

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

Concen: 0.550 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

Instrument :

MSVOA_V

ClientSampleId :

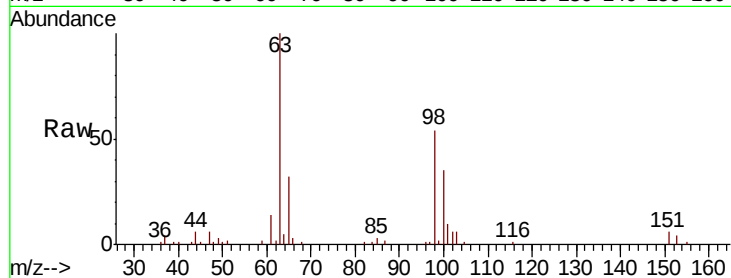
Tot Ion:101 Resp: 2694

Ion Ratio Lower Upper

101 100

85 36.5 35.7 53.5

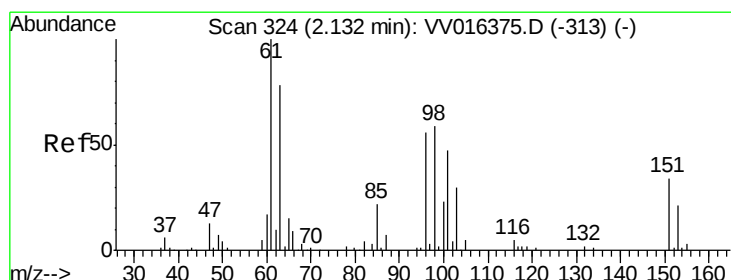
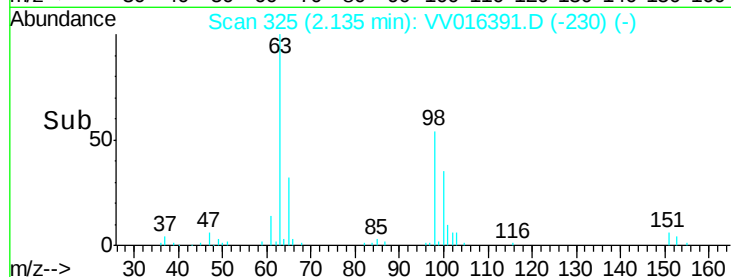
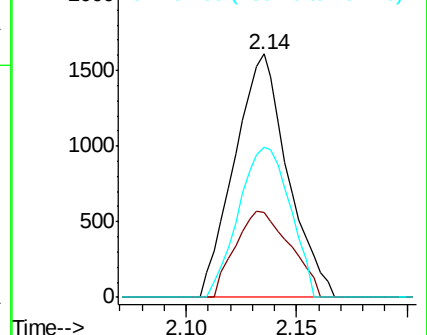
151 59.9 57.2 85.8



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: 0.102 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

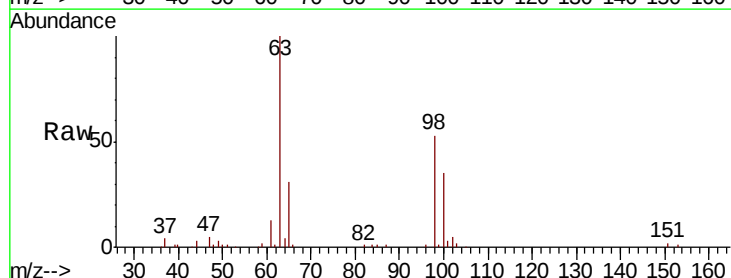
Tgt Ion: 96 Resp: 476

Ion Ratio Lower Upper

96 100

61 1247.8 125.4 233.0#

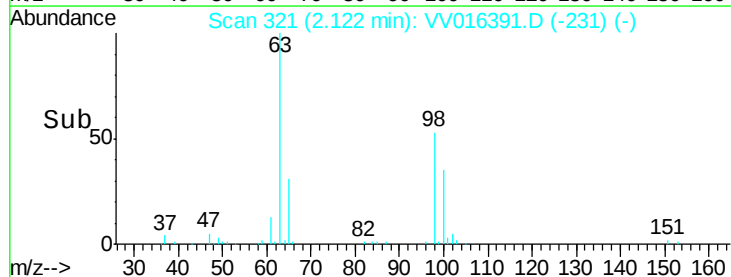
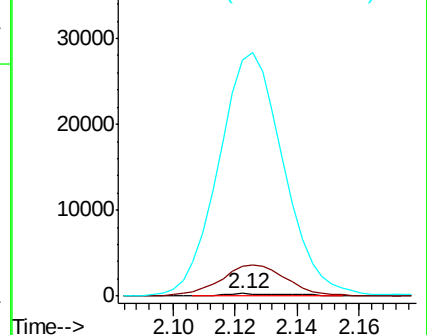
63 9936.2 88.2 163.8#

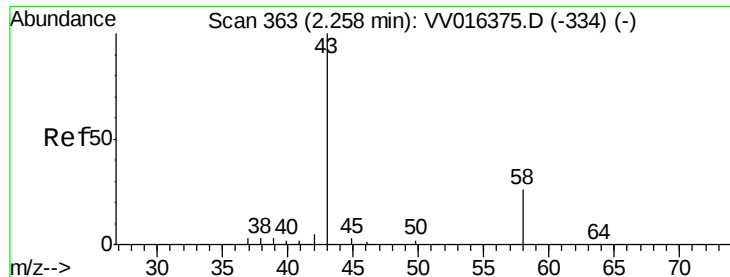


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 7.384 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.03 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

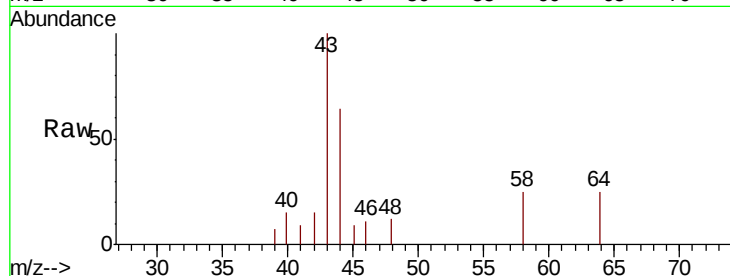
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 6790

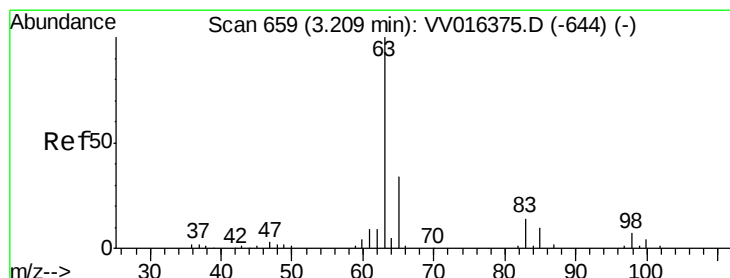
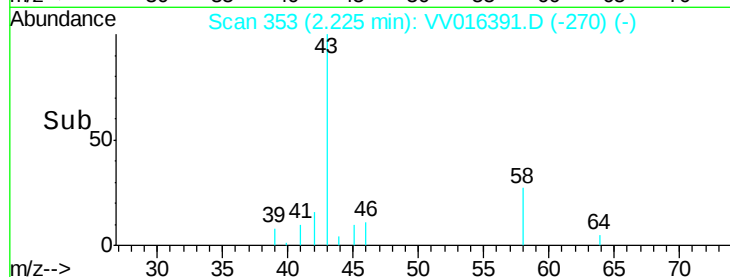
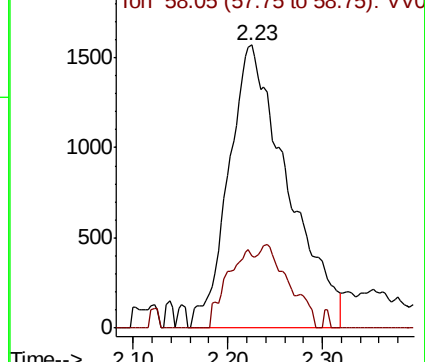
Ion Ratio Lower Upper

43 100

58 13.0 0.0 59.2



Abundance Ion 43.05 (42.75 to 43.75): VV016391.D (-270) (-)



#19

1,1-Dichloroethane

Concen: 0.204 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.01 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

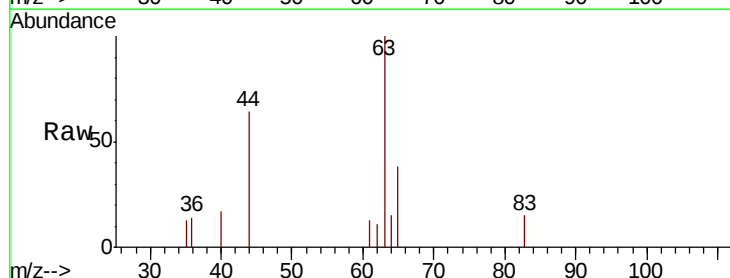
Tgt Ion: 63 Resp: 1988

Ion Ratio Lower Upper

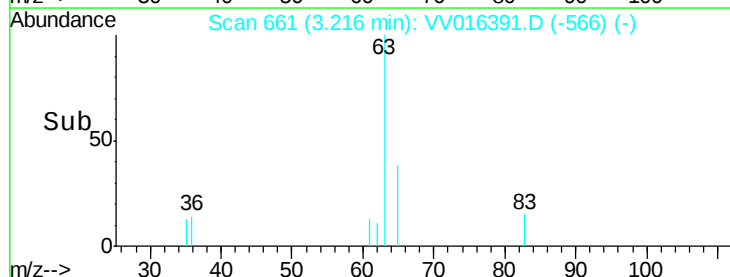
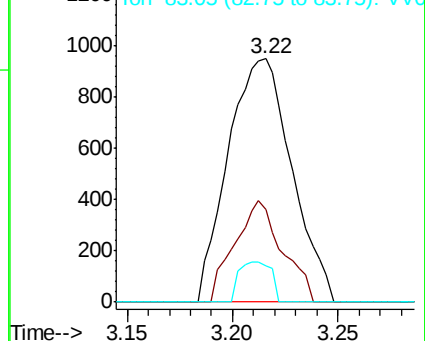
63 100

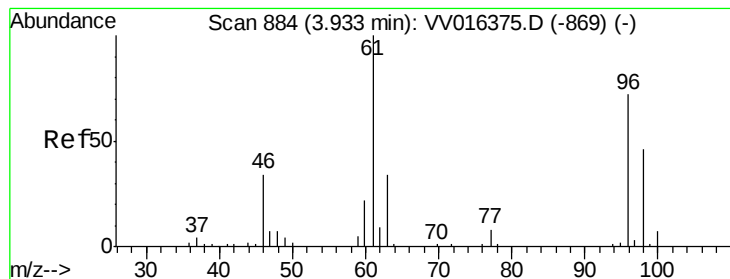
65 38.0 23.3 43.3

83 14.9 9.9 18.3



Abundance Ion 63.10 (62.80 to 63.80): VV016391.D (-566) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.694 ug/L

RT: 3.95 min Scan# 888

Delta R.T. 0.01 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

Instrument :
MSVOA_V
ClientSampleId :

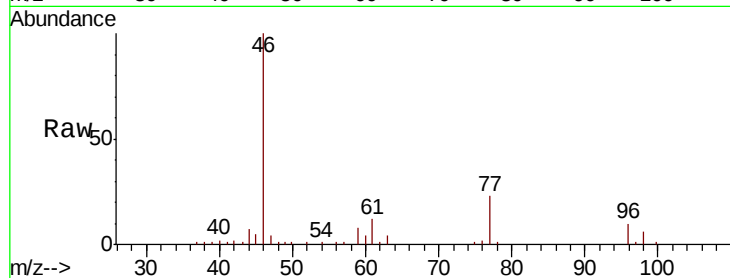
Tot Ion: 96 Resp: 3787

Ion Ratio Lower Upper

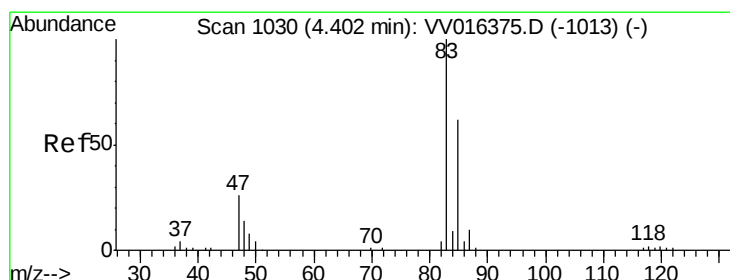
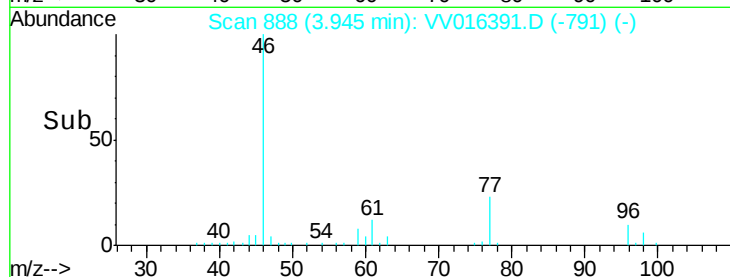
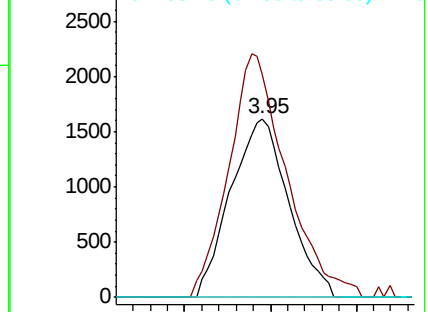
96 100

61 125.0 94.8 176.0

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: 0.315 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV016391.D

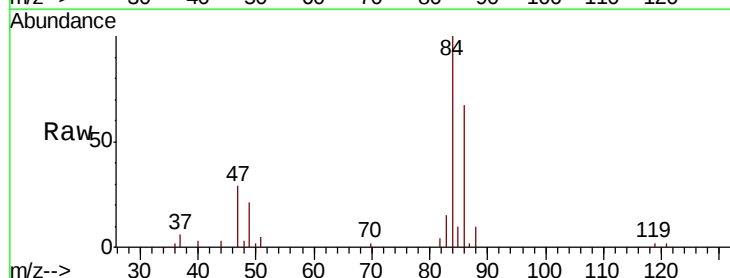
Acq: 31 May 2020 16:38

Tgt Ion: 83 Resp: 3074

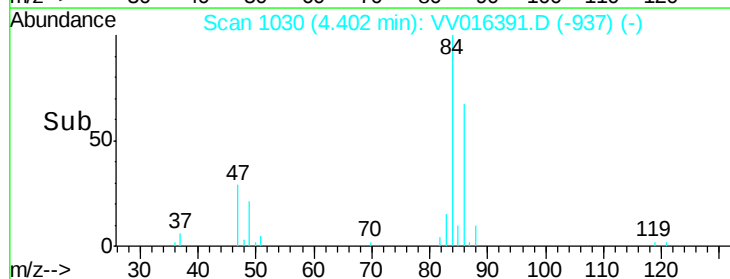
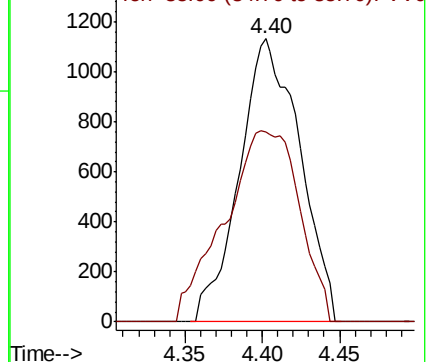
Ion Ratio Lower Upper

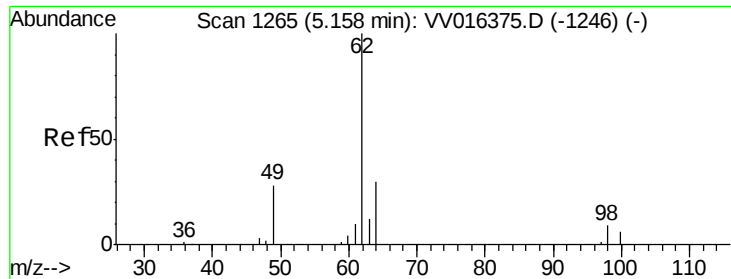
83 100

85 67.1 45.8 85.2



Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0

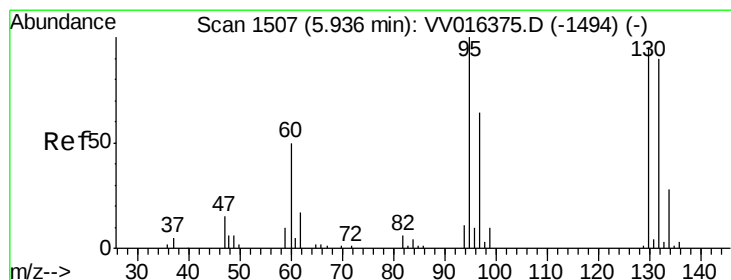
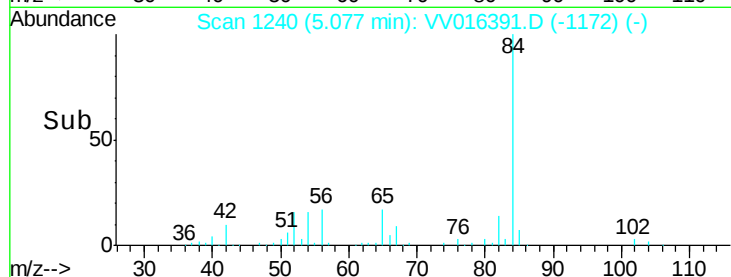
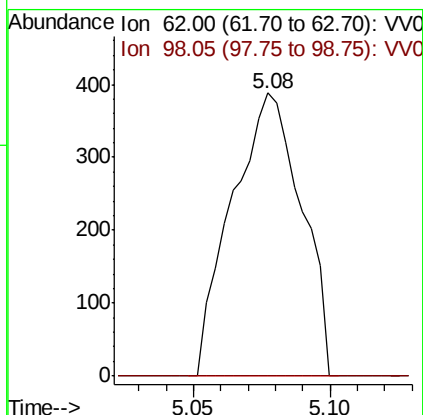
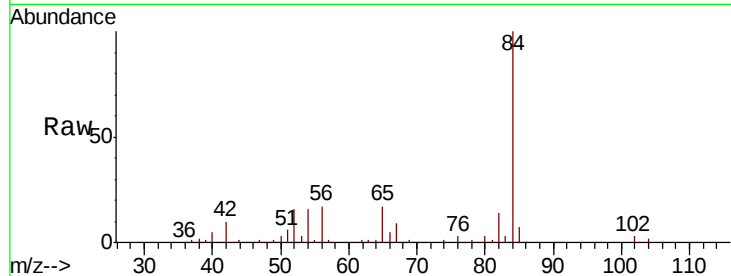




#27
 1,2-Dichloroethane
 Concen: 0.106 ug/L
 RT: 5.08 min Scan# 1240
 Delta R.T. -0.08 min
 Lab File: VV016391.D
 Acq: 31 May 2020 16:38

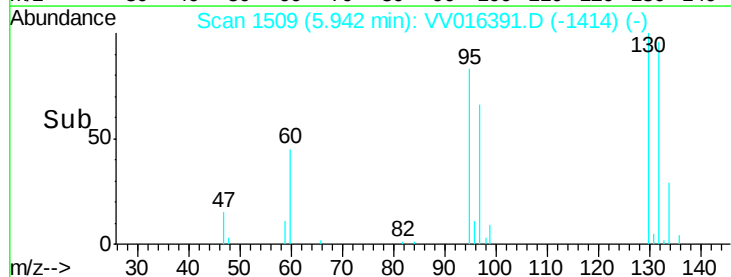
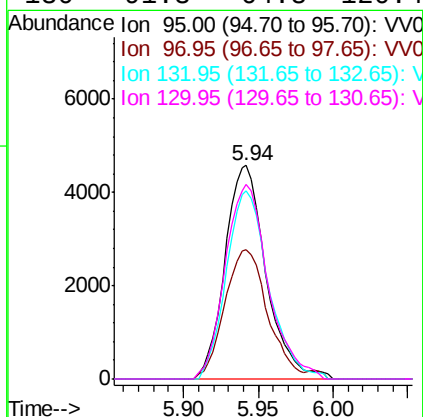
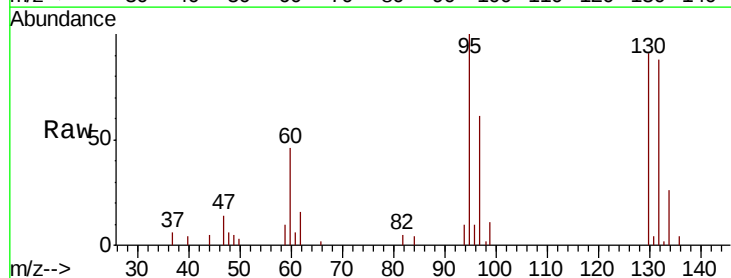
Instrument :
 MSVOA_V
 ClientSampleId :

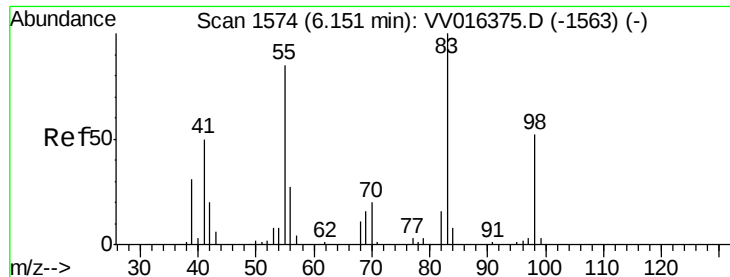
Tot Ion: 62 Resp: 685
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.0 10.4#



#34
 Trichloroethene
 Concen: 1.590 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV016391.D
 Acq: 31 May 2020 16:38

Tgt Ion: 95 Resp: 8760
 Ion Ratio Lower Upper
 95 100
 97 60.6 42.6 79.0
 132 87.8 59.6 110.8
 130 91.3 64.8 120.4

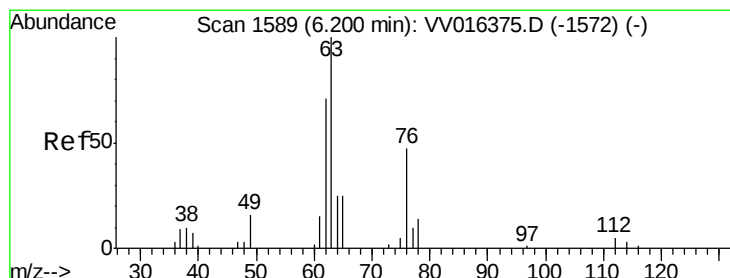
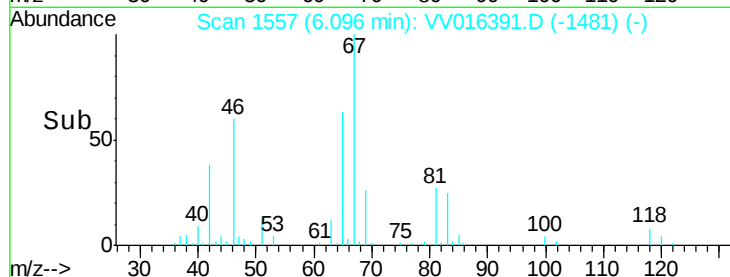
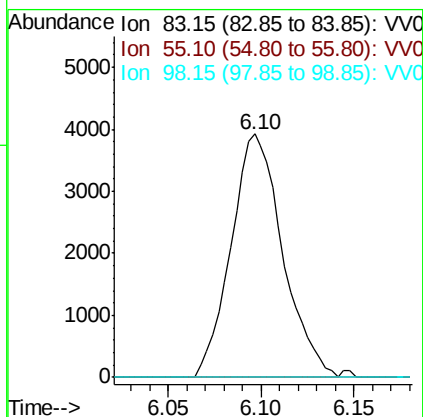
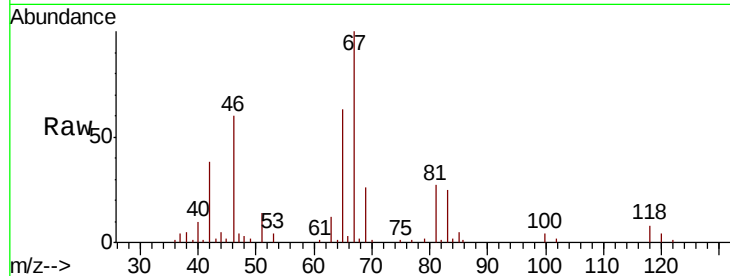




#35
Methvlcvclohexane
Concen: 0.854 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV016391.D
Acq: 31 May 2020 16:38

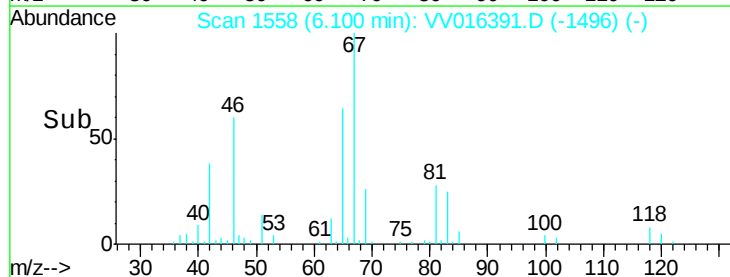
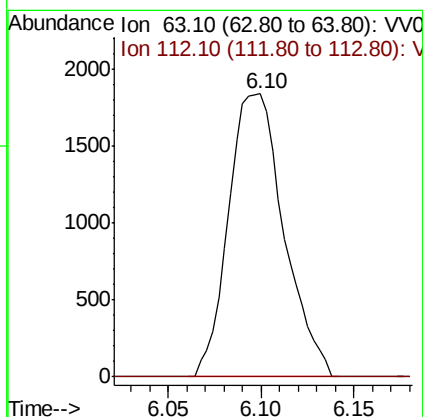
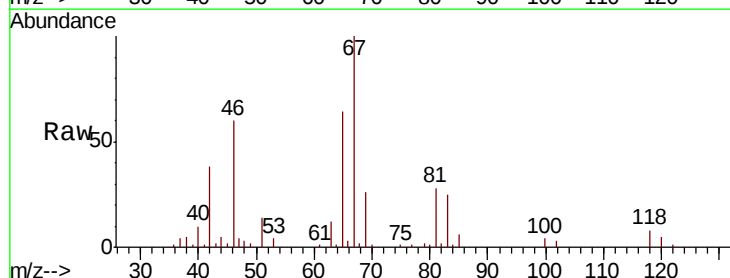
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ClientSampleId :

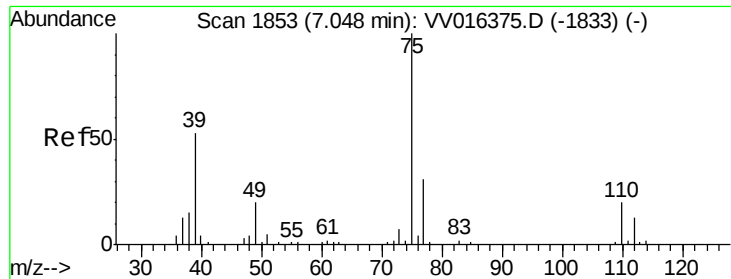
Tot Ion: 83 Resp: 7577
Ion Ratio Lower Upper
83 100
55 0.0 67.0 100.4#
98 13.2 39.0 58.4#



#37
1,2-Dichloropropane
Concen: 0.719 ug/L
RT: 6.10 min Scan# 1558
Delta R.T. -0.10 min
Lab File: VV016391.D
Acq: 31 May 2020 16:38

Tgt Ion: 63 Resp: 3820
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#

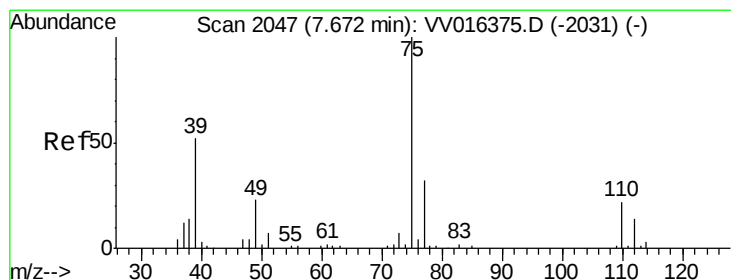
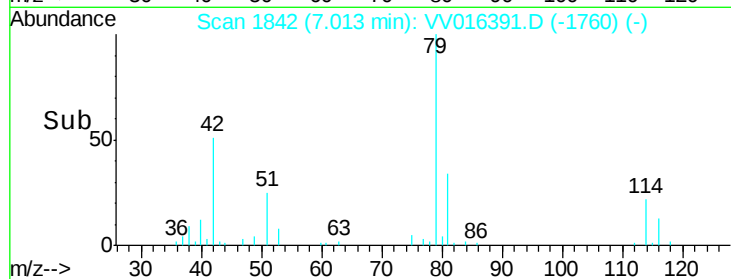
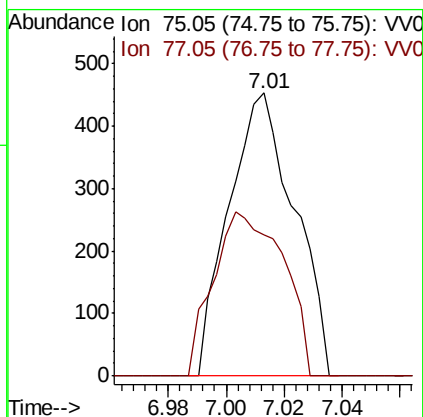
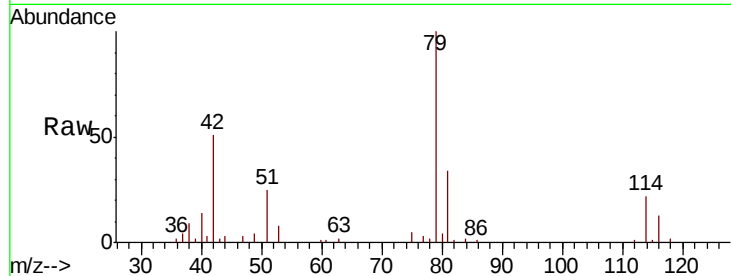




#39
 cis-1,3-Dichloropropene
 Concen: 0.101 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016391.D
 Acq: 31 May 2020 16:38

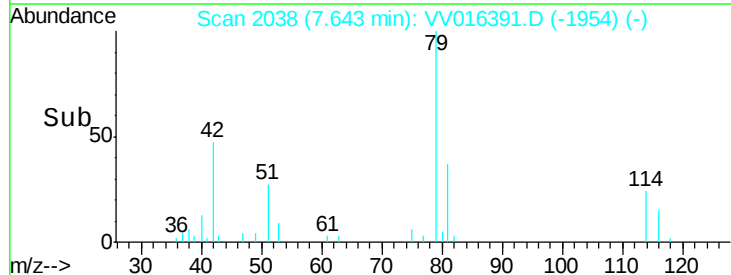
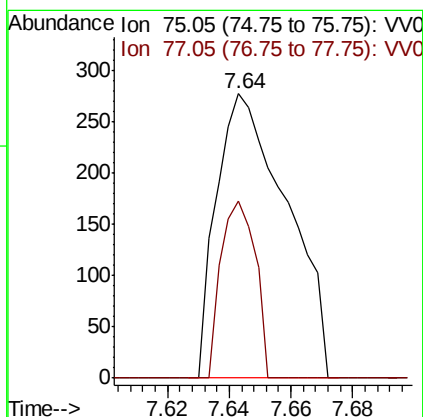
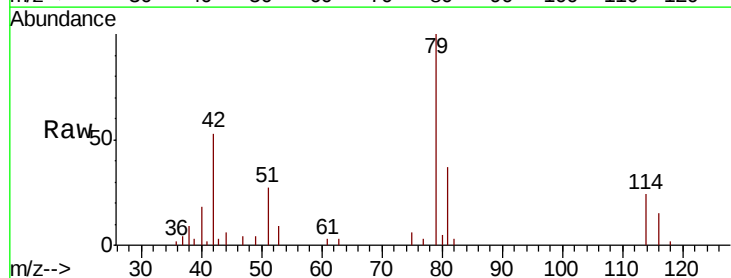
Instrument :
 MSVOA_V
 ClientSampled :

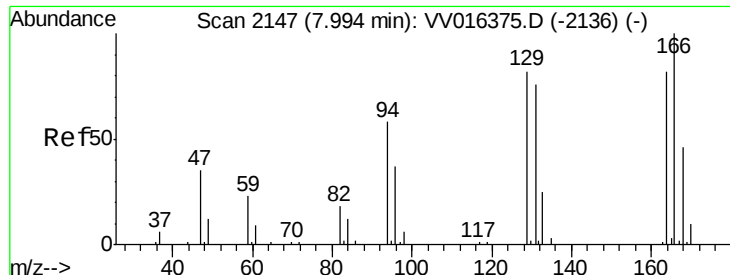
Tot Ion: 75 Resp: 712
 Ion Ratio Lower Upper
 75 100
 77 50.1 22.0 41.0#



#46
 trans-1,3-Dichloropropene
 Concen: 0.076 ug/L
 RT: 7.64 min Scan# 2038
 Delta R.T. -0.03 min
 Lab File: VV016391.D
 Acq: 31 May 2020 16:38

Tgt Ion: 75 Resp: 439
 Ion Ratio Lower Upper
 75 100
 77 62.1 21.1 39.3#





#49

Tetrachloroethene

Concen: 0.202 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 817

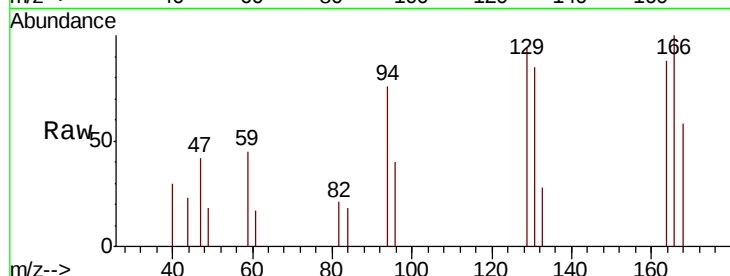
Ion Ratio Lower Upper

164 100

129 107.0 72.2 134.0

131 96.1 65.8 122.2

166 113.4 88.3 163.9

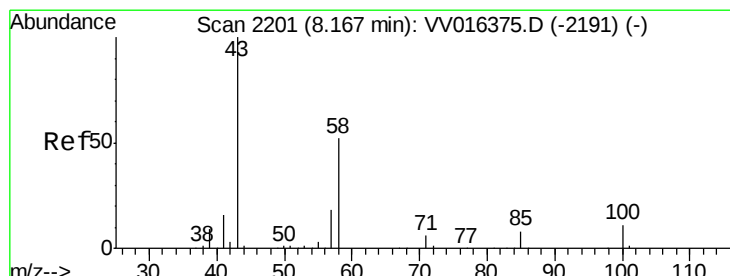
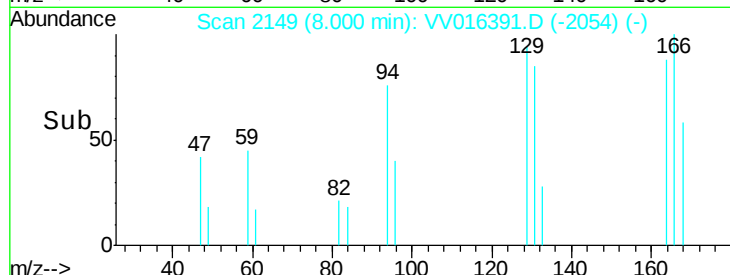
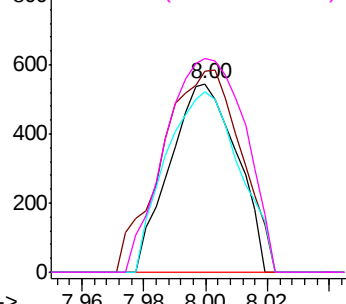


Abundance Ion 163.90 (163.60 to 164.60): V

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



#50

2-Hexanone

Concen: 3.317 ug/L

RT: 8.12 min Scan# 2185

Delta R.T. -0.05 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

Tgt Ion: 43 Resp: 7423

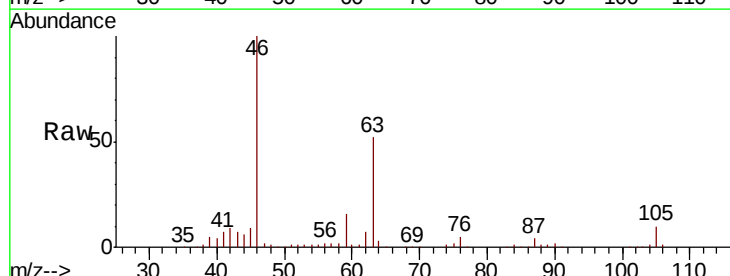
Ion Ratio Lower Upper

43 100

58 46.0 41.1 61.7

57 28.0 14.2 21.4#

100 1.2 8.8 13.2#

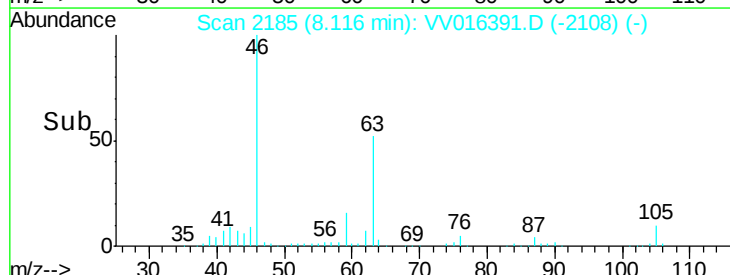
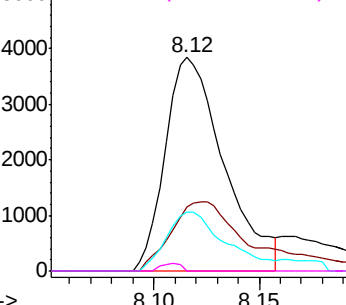


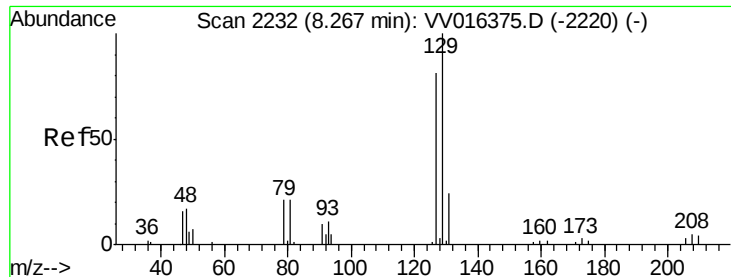
Abundance Ion 43.05 (42.75 to 43.75): VV0

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: 0.286 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. -0.26 min

Lab File: VV016391.D

Acq: 31 May 2020 16:38

Instrument :

MSVOA_V

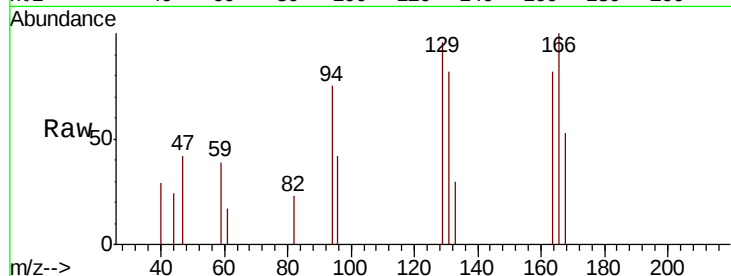
ClientSampleId :

Tot Ion:129 Resp: 1015

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

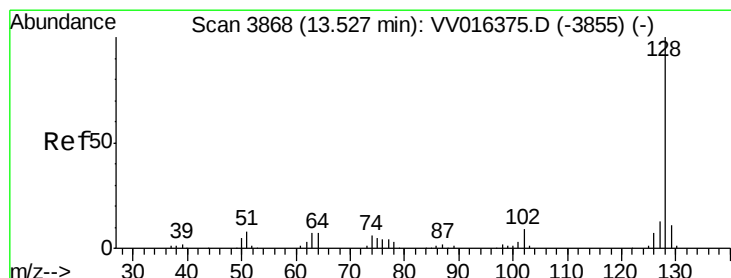
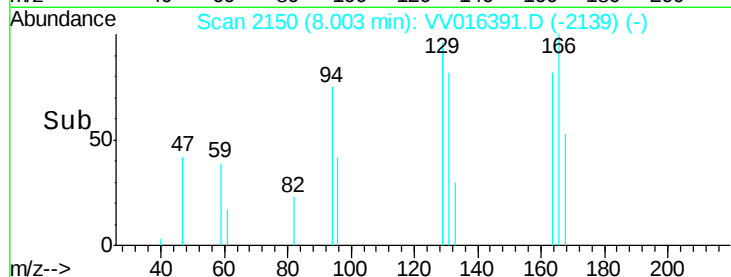
600

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: VV016391.D

Acq: 31 May 2020 16:38

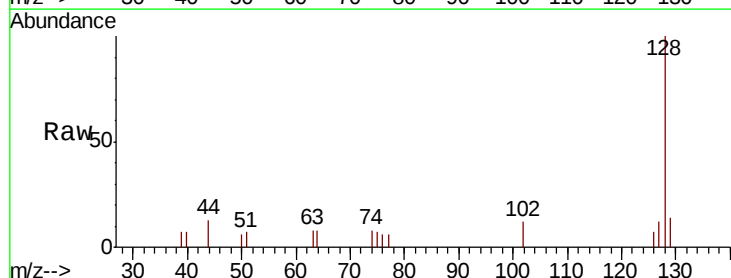
Tgt Ion:128 Resp: 3773

Ion Ratio Lower Upper

128 100

129 11.7 8.6 12.8

127 10.9 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

3000

2500

2000

1500

1000

500

0

Time-->

