

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042920\
 Data File : VV015802.D
 Acq On : 29 Apr 2020 19:00
 Operator : SY/MD
 Sample : L2421-06DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 30 01:42:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 30 01:35:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	130351	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	126464	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	59506	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38464	5.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	113.00%
7) Chloroethane-d5	1.58	69	34238	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.12	63	55726	3.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.80%
20) 2-Butanone-d5	3.91	46	93793	42.88	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.76%
24) Chloroform-d	4.38	84	69279	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
26) 1,2-Dichloroethane-d4	5.06	65	40956	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.08	84	140395	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.09	67	43119	4.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.40%
41) Toluene-d8	7.34	98	125331	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	7.64	79	14969	4.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.20%
46) 2-Hexanone-d5	8.11	63	63311	34.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	69.62%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	28619	3.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.60%
64) 1,2-Dichlorobenzene-d4	11.65	152	45645	4.51	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.20%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	901	0.093 ug/L	94
5) Vinyl chloride	1.32	62	1062	0.103 ug/L #	13
6) Bromomethane	1.53	94	507	0.114 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1185	0.145 ug/L #	64
12) 1,1-Dichloroethene	2.13	96	1186	0.156 ug/L #	1
14) Carbon disulfide	2.31	76	1419	0.066 ug/L #	89
16) Methylene chloride	2.53	84	1507	0.161 ug/L	94
17) Methyl tert-butyl Ether	2.79	73	3845	0.181 ug/L #	91
18) trans-1,2-Dichloroethene	2.78	96	1100	0.129 ug/L	92
19) 1,1-Dichloroethane	3.21	63	1219	0.073 ug/L #	82
22) cis-1,2-Dichloroethene	3.94	96	51019	5.432 ug/L	100
25) Chloroform	4.41	83	6178	0.349 ug/L	97
27) 1,2-Dichloroethane	5.17	62	841	0.072 ug/L #	78
29) 1,1,1-Trichloroethane	4.64	97	1235	0.077 ug/L	94
33) Benzene	5.13	78	2614	0.072 ug/L	100
34) Trichloroethene	5.94	95	97432	9.764 ug/L	98
38) Bromodichloromethane	6.54	83	605	0.052 ug/L #	78

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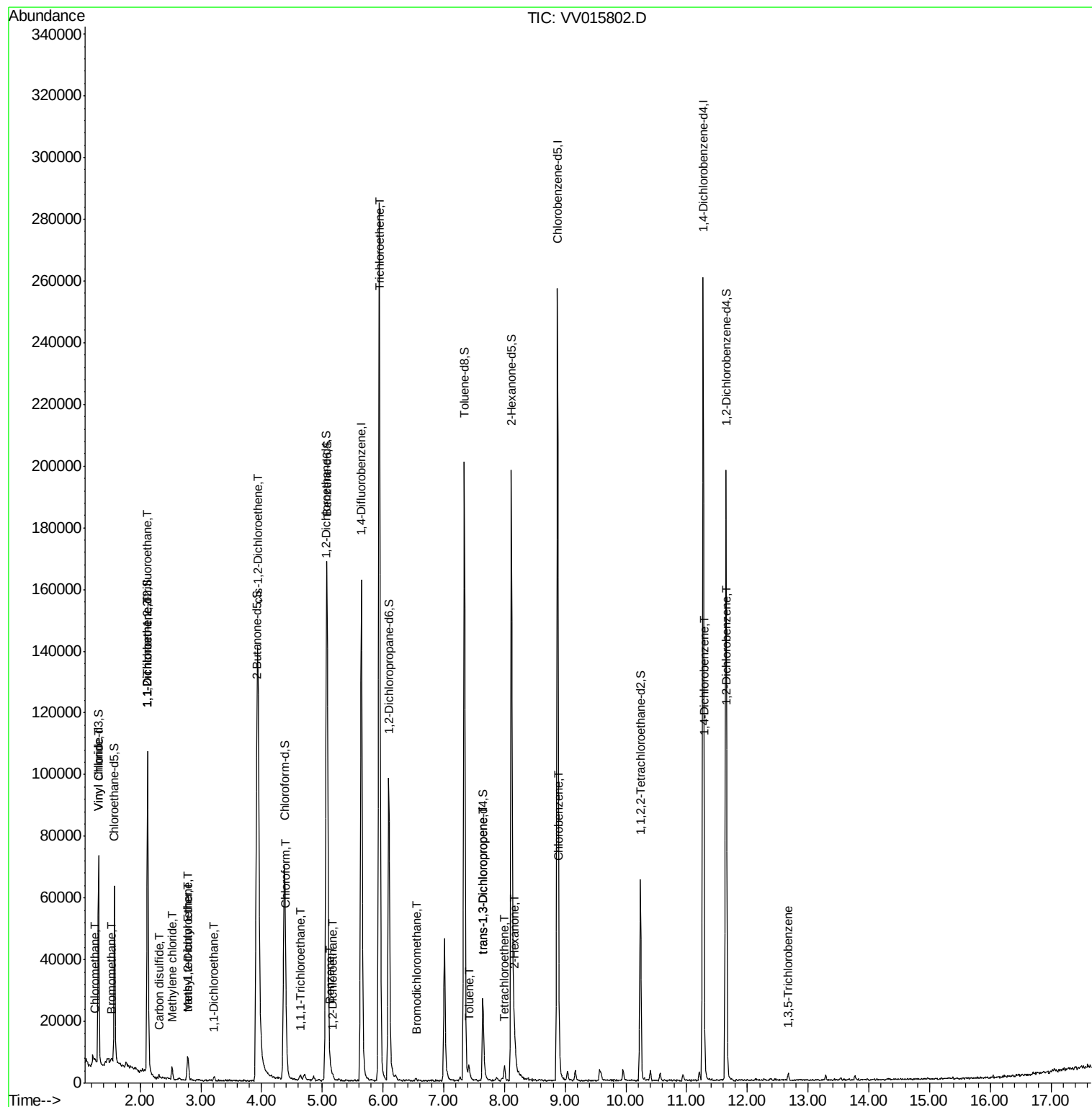
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.42	91	2832	0.073	ug/L	89
44) trans-1,3-Dichloropropene	7.65	75	660	0.061	ug/L #	80
47) Tetrachloroethene	8.01	164	941	0.131	ug/L	85
48) 2-Hexanone	8.17	43	6074	1.429	ug/L #	90
51) Chlorobenzene	8.90	112	2081	0.082	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	1366	0.072	ug/L	92
65) 1,2-Dichlorobenzene	11.67	146	1198	0.070	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.67	180	795	0.057	ug/L	95

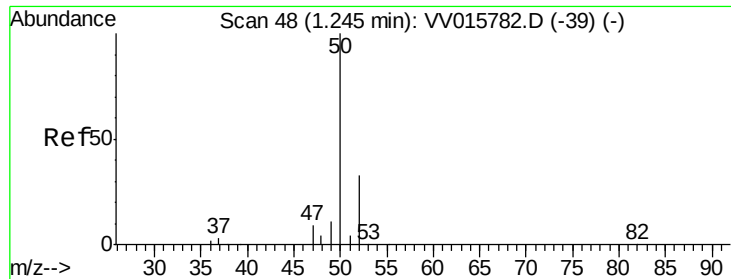
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.093 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Instrument :

MSVOA_V

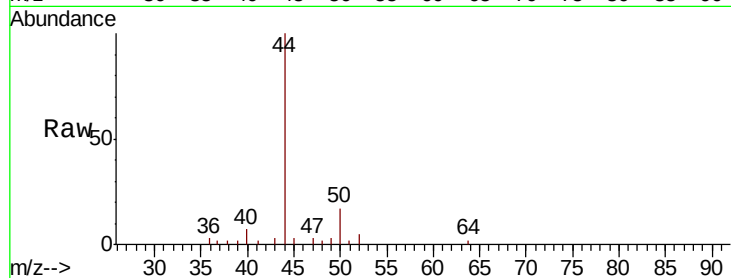
ClientSampleId :

Tot Ion: 50 Resp: 901

Ion Ratio Lower Upper

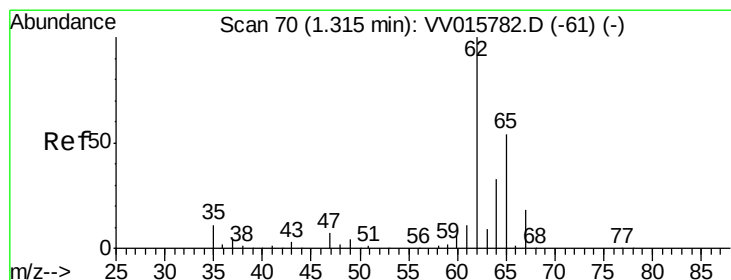
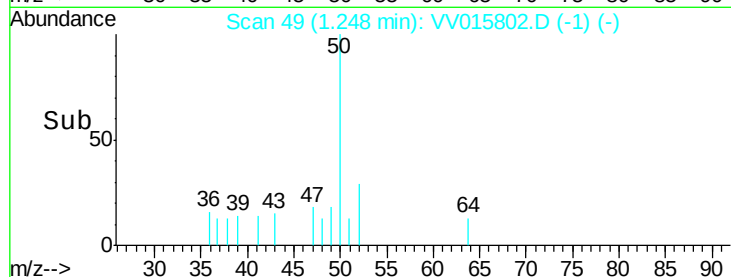
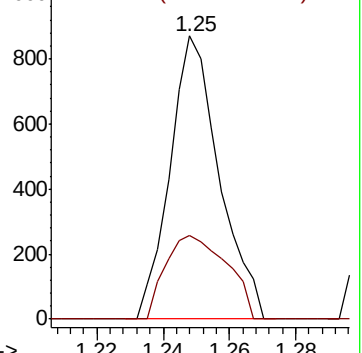
50 100

52 29.4 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 0.103 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015802.D

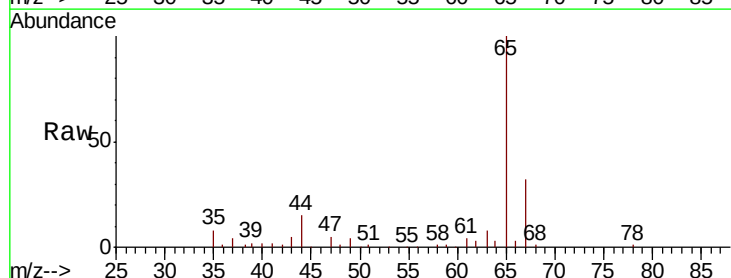
Acq: 29 Apr 2020 19:00

Tgt Ion: 62 Resp: 1062

Ion Ratio Lower Upper

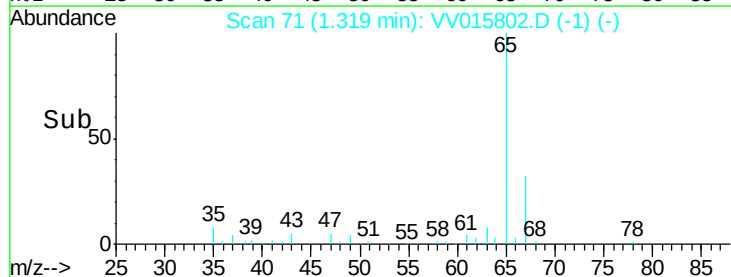
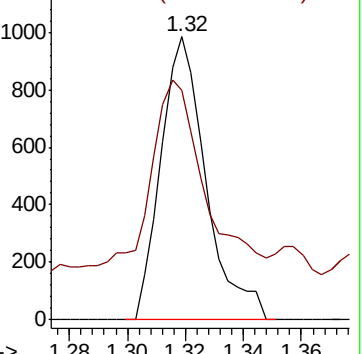
62 100

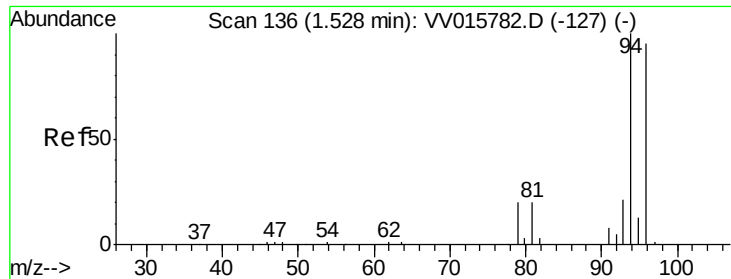
64 81.3 22.7 42.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#6

Bromomethane

Concen: 0.114 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Instrument :

MSVOA_V

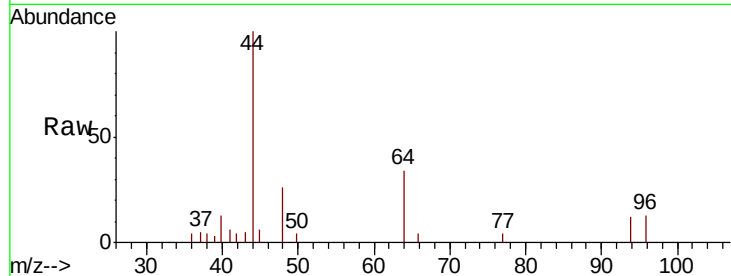
ClientSampleId :

Tot Ion: 94 Resp: 507

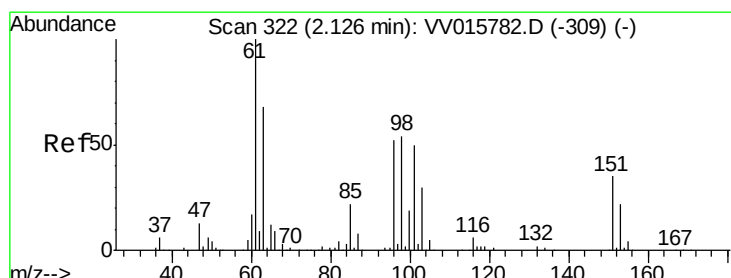
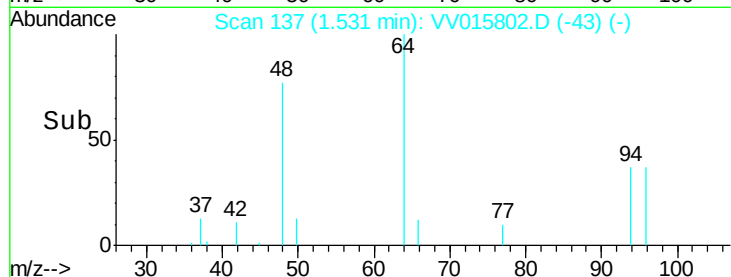
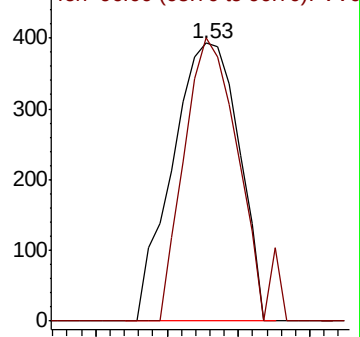
Ion Ratio Lower Upper

94 100

96 101.8 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV015802.D (-43) (-)



#10

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

Concen: 0.145 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

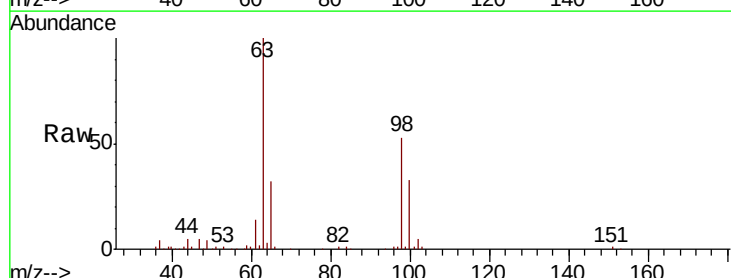
Tgt Ion:101 Resp: 1185

Ion Ratio Lower Upper

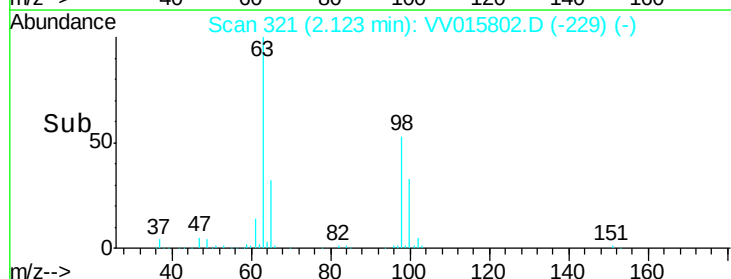
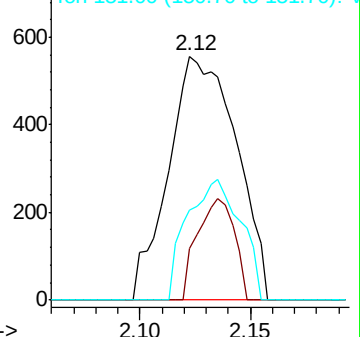
101 100

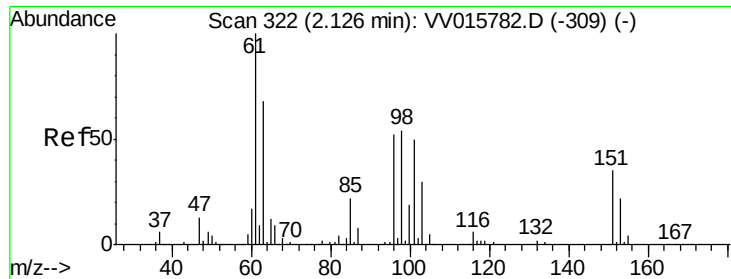
85 22.6 36.1 54.1#

151 38.9 55.2 82.8#



Abundance Ion 101.00 (100.70 to 101.70): VV015802.D (-229) (-)

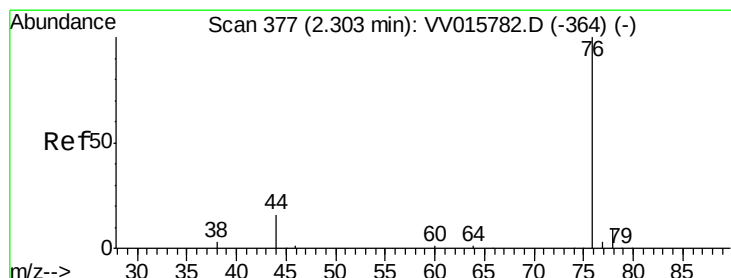
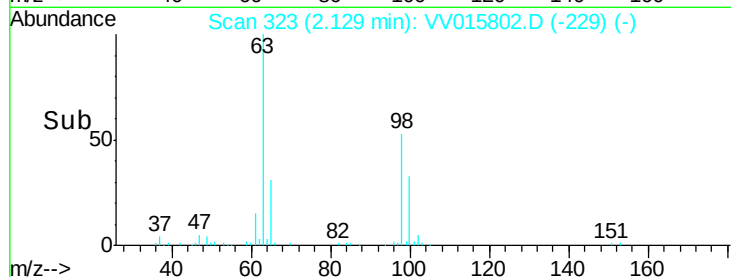
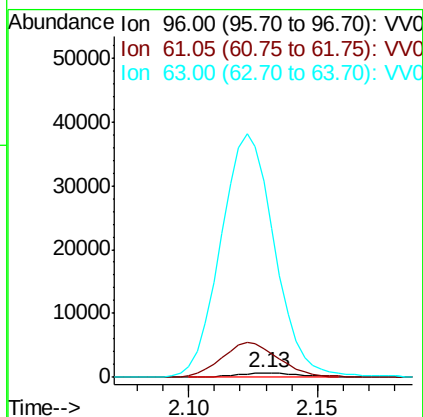
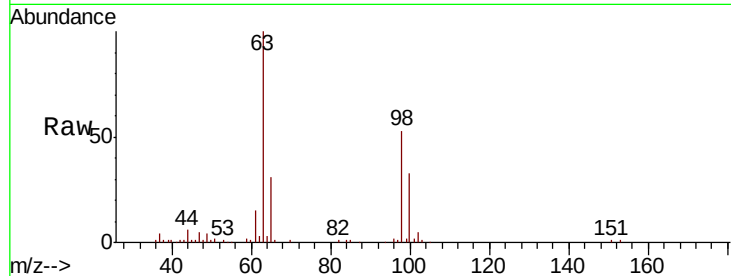




#12
 1,1-Dichloroethene
 Concen: 0.156 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. 0.00 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

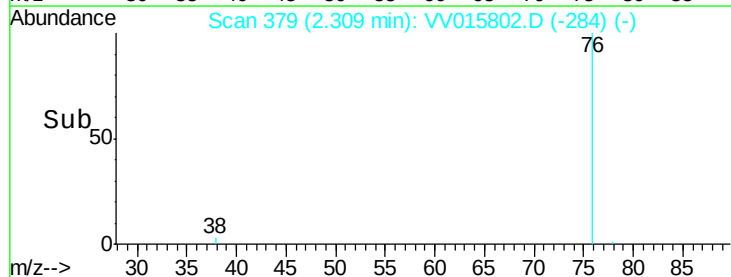
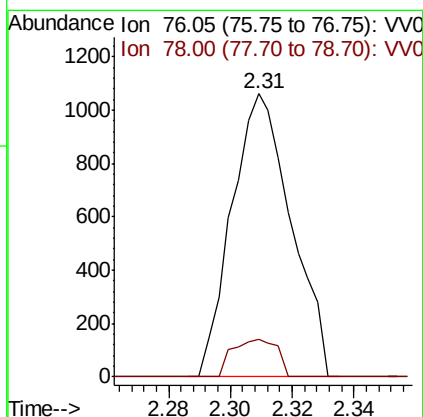
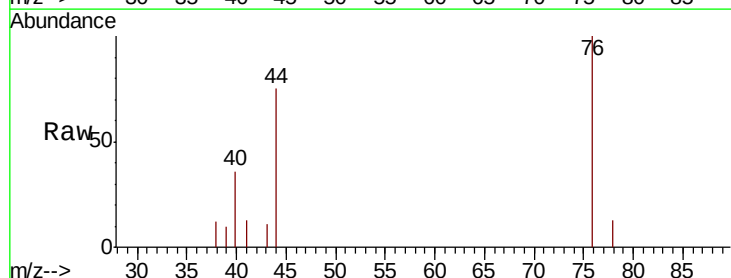
Instrument :
 MSVOA_V
 ClientSampleId :

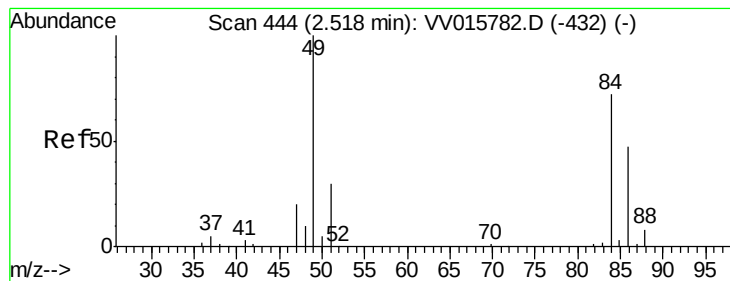
Tot Ion: 96 Resp: 1186
 Ion Ratio Lower Upper
 96 100
 61 628.8 130.1 241.7#
 63 4292.7 91.4 169.8#



#14
 Carbon disulfide
 Concen: 0.066 ug/L
 RT: 2.31 min Scan# 379
 Delta R.T. 0.01 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

Tgt Ion: 76 Resp: 1419
 Ion Ratio Lower Upper
 76 100
 78 13.3 7.4 11.0#





#16

Methylene chloride

Concen: 0.161 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.01 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Instrument :

MSVOA_V

ClientSampleId :

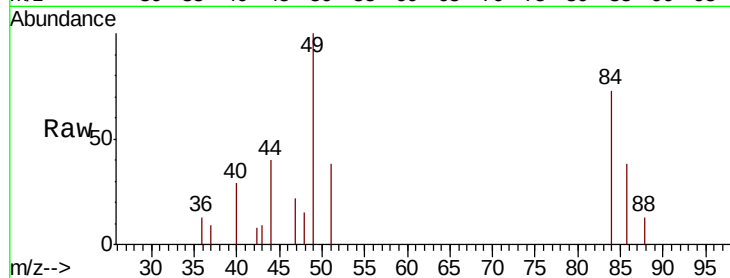
Tot Ion: 84 Resp: 1507

Ion Ratio Lower Upper

84 100

86 52.0 45.1 83.7

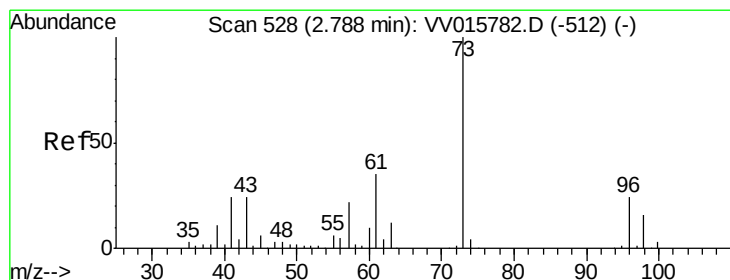
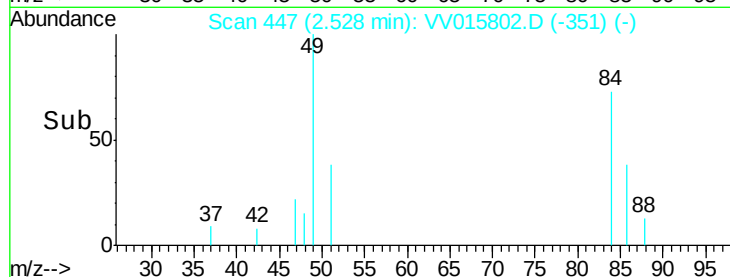
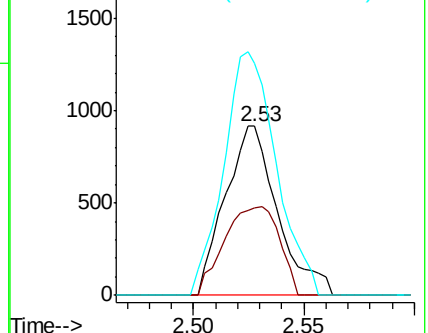
49 137.1 94.4 175.4



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



#17

Methyl tert-butyl Ether

Concen: 0.181 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

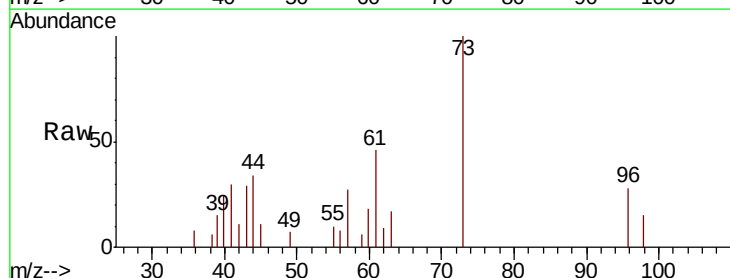
Tgt Ion: 73 Resp: 3845

Ion Ratio Lower Upper

73 100

43 30.6 20.1 30.1#

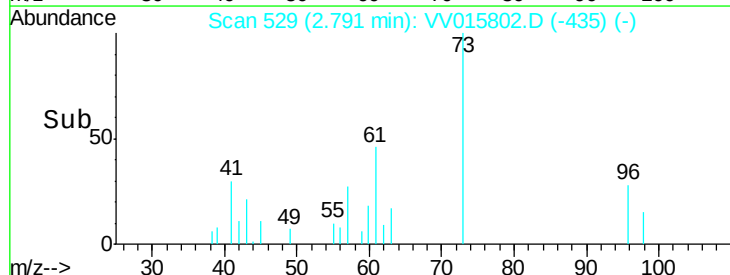
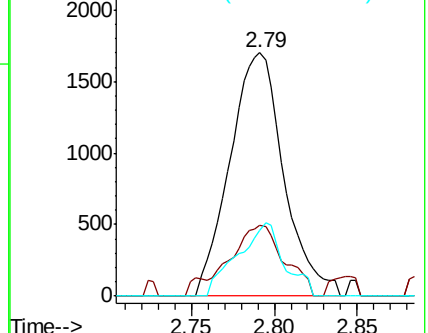
57 26.1 17.8 26.8

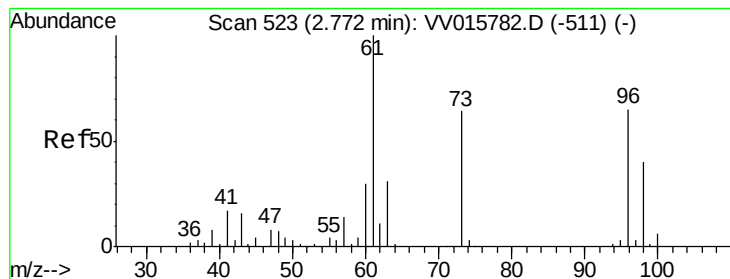


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0





#18

trans-1,2-Dichloroethene

Concen: 0.129 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.01 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Instrument :
MSVOA_V
ClientSampled :

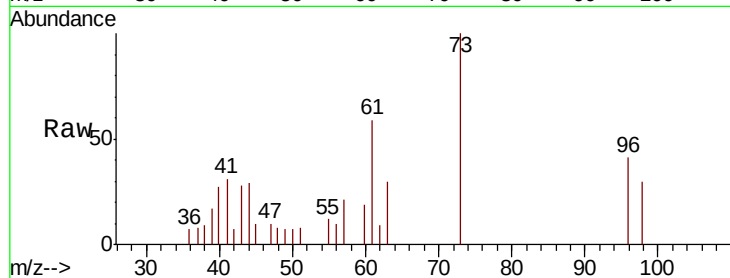
Tot Ion: 96 Resp: 1100

Ion Ratio Lower Upper

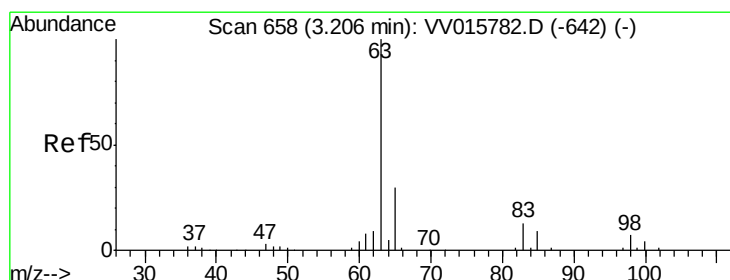
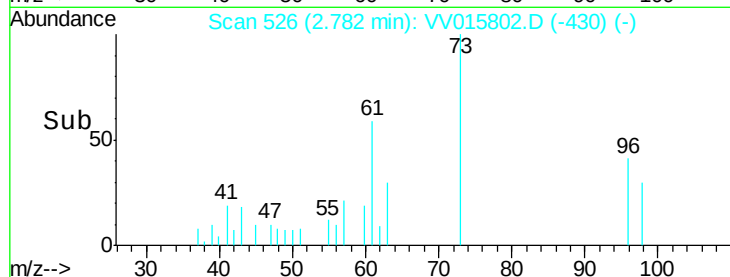
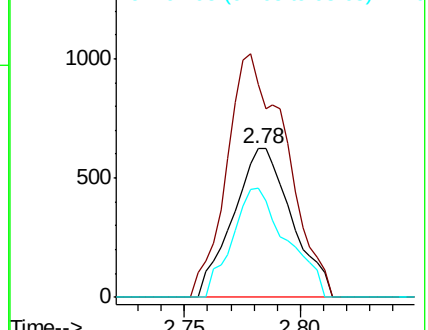
96 100

61 143.5 105.5 195.9

98 73.5 44.2 82.0



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: 0.073 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.01 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

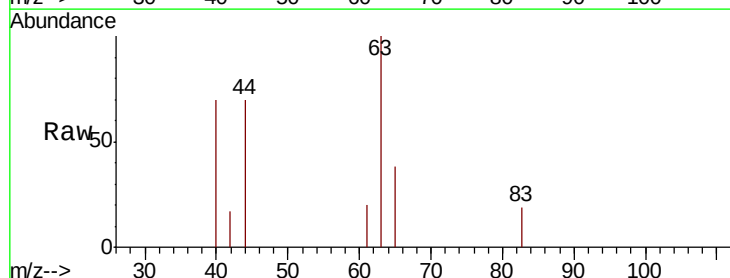
Tgt Ion: 63 Resp: 1219

Ion Ratio Lower Upper

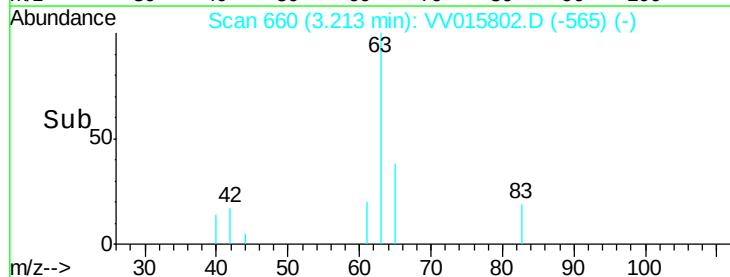
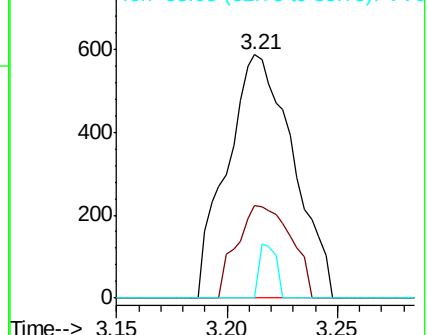
63 100

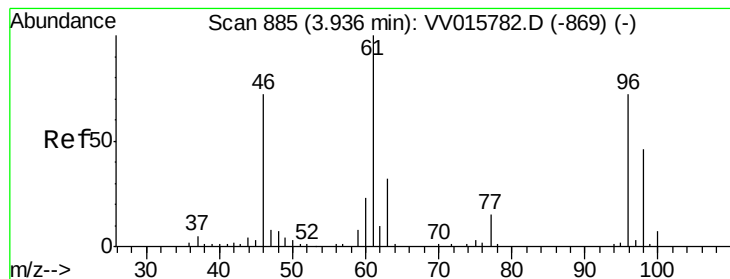
65 38.1 22.3 41.3

83 0.0 9.3 17.3#



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: 5.432 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Instrument :

MSVOA_V

ClientSampleId :

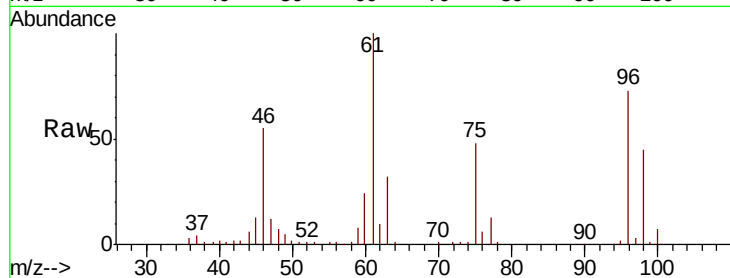
Tot Ion: 96 Resp: 51019

Ion Ratio Lower Upper

96 100

61 137.3 96.4 179.0

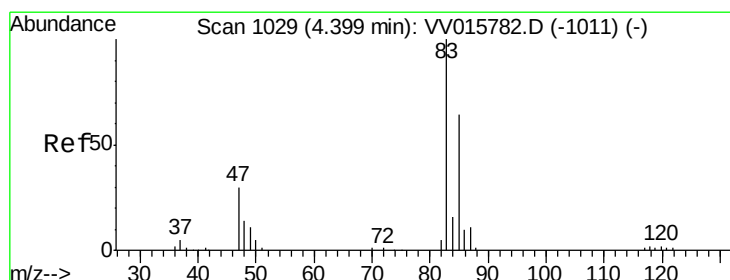
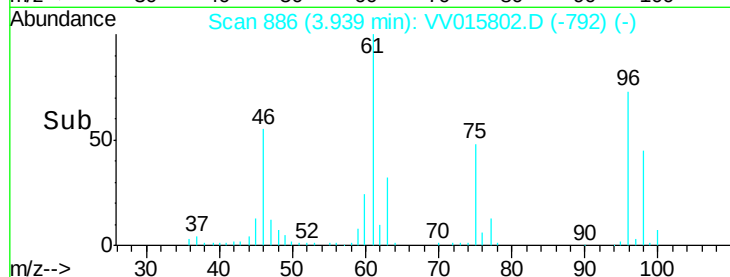
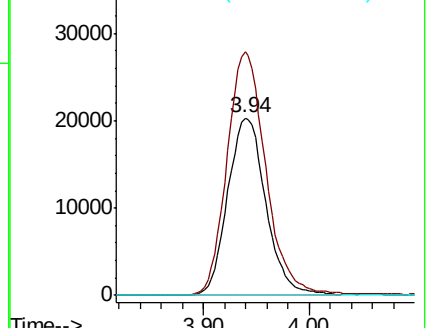
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV015802.D (-792) (-)

Ion 61.05 (60.75 to 61.75): VV015802.D (-792) (-)

Ion 68.15 (67.85 to 68.85): VV015802.D (-792) (-)



#25

Chloroform

Concen: 0.349 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV015802.D

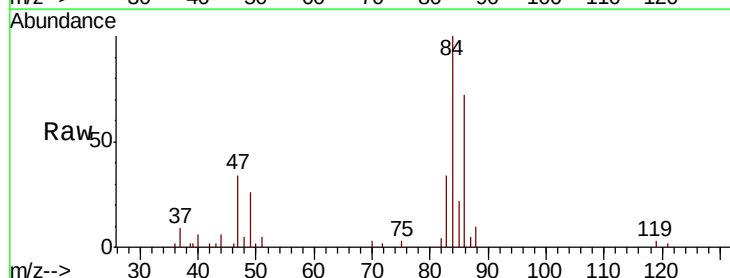
Acq: 29 Apr 2020 19:00

Tgt Ion: 83 Resp: 6178

Ion Ratio Lower Upper

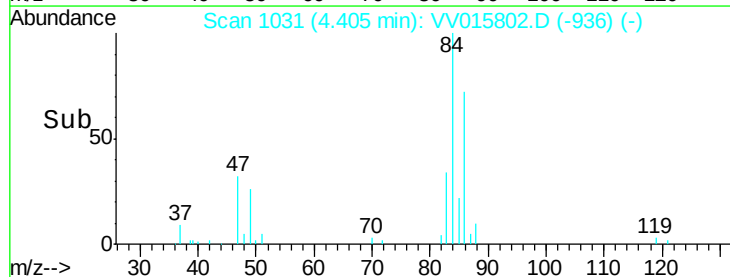
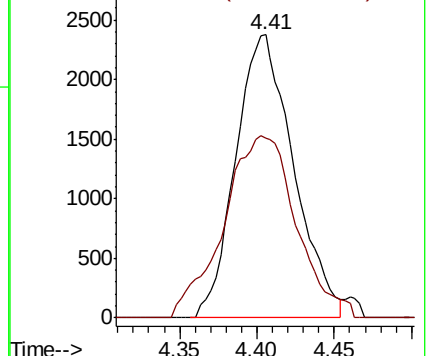
83 100

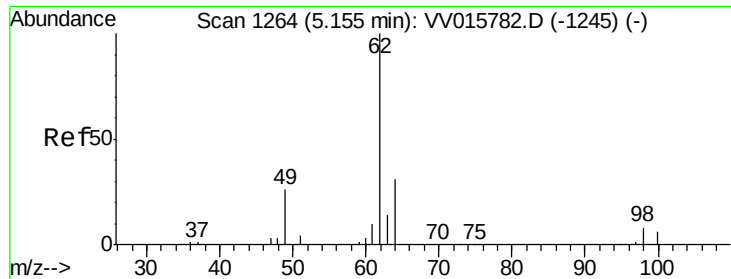
85 63.4 46.1 85.5



Abundance Ion 83.05 (82.75 to 83.75): VV015802.D (-936) (-)

Ion 85.00 (84.70 to 85.70): VV015802.D (-936) (-)

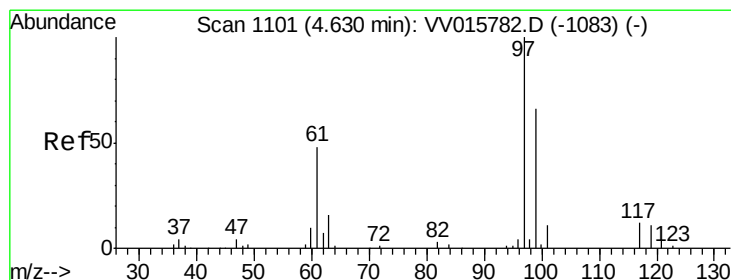
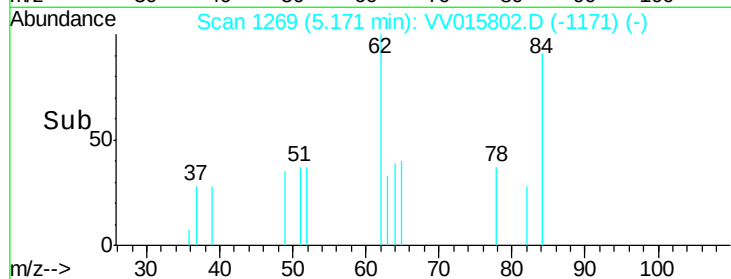
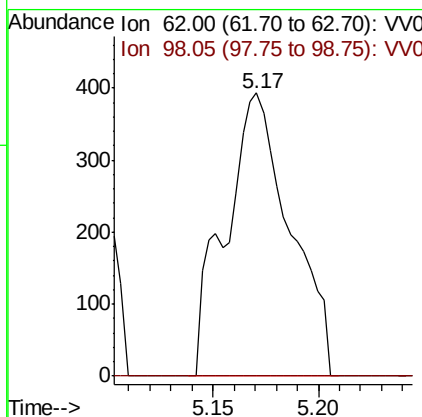
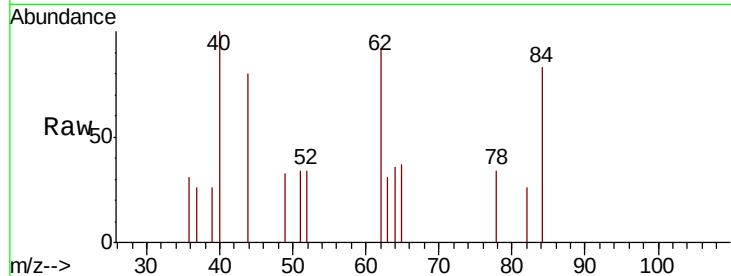




#27
 1,2-Dichloroethane
 Concen: 0.072 ug/L
 RT: 5.17 min Scan# 1269
 Delta R.T. 0.02 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

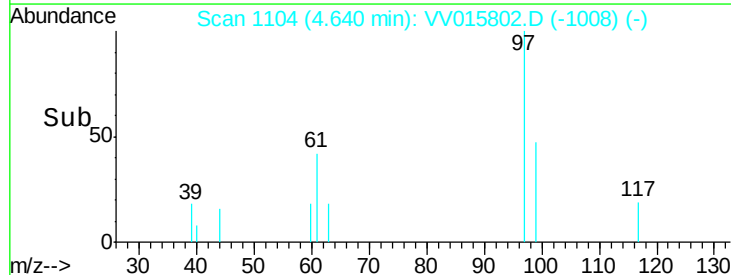
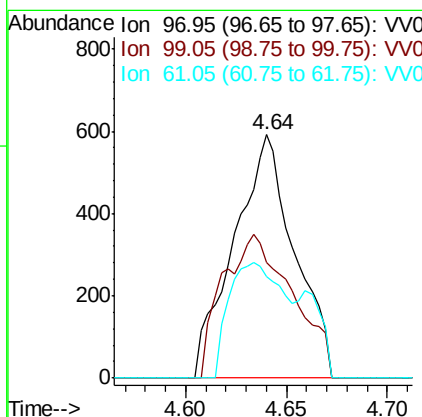
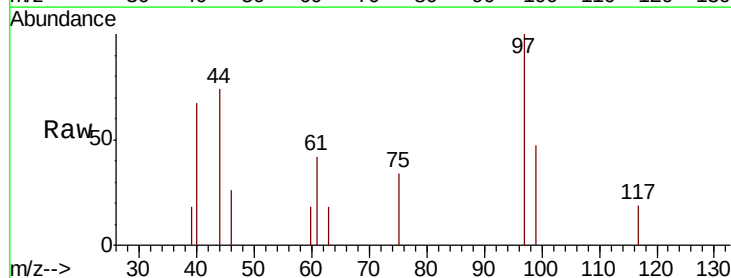
Instrument :
 MSVOA_V
 ClientSampled :

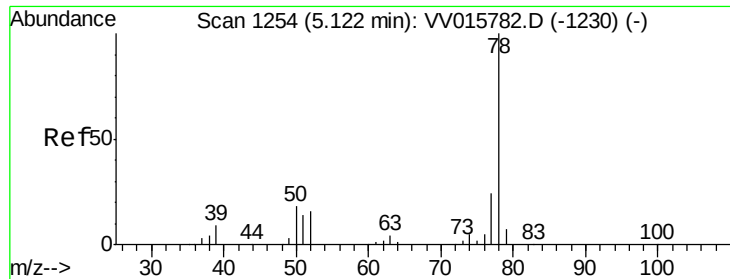
Tot Ion: 62 Resp: 841
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.3 9.5#



#29
 1,1,1-Trichloroethane
 Concen: 0.077 ug/L
 RT: 4.64 min Scan# 1104
 Delta R.T. 0.01 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

Tgt Ion: 97 Resp: 1235
 Ion Ratio Lower Upper
 97 100
 99 67.6 51.6 77.4
 61 42.8 38.6 57.8





#33

Benzene

Concen: 0.072 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV015802.D

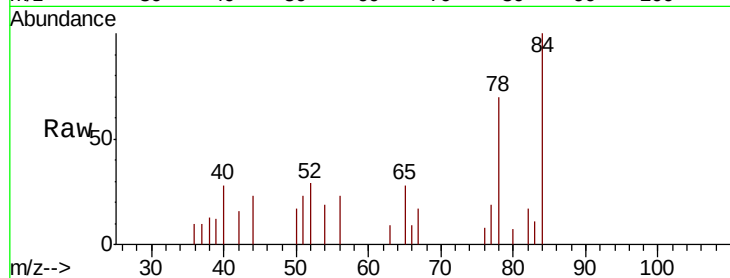
Acq: 29 Apr 2020 19:00

Instrument :

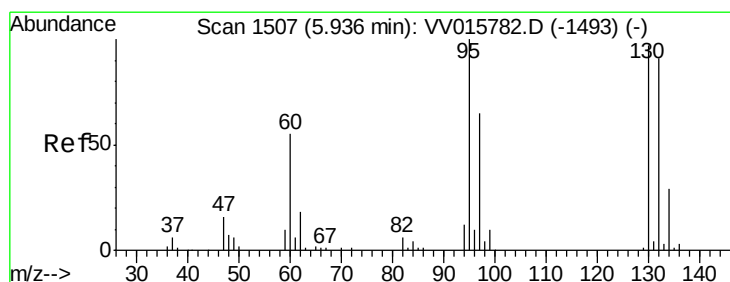
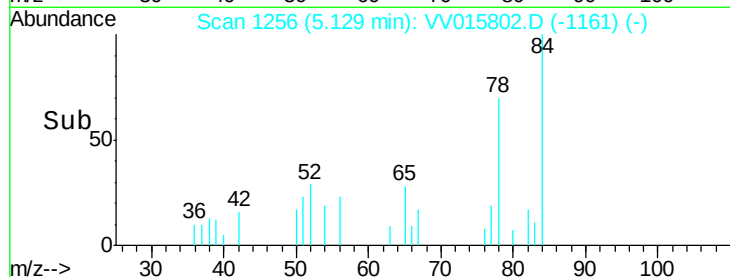
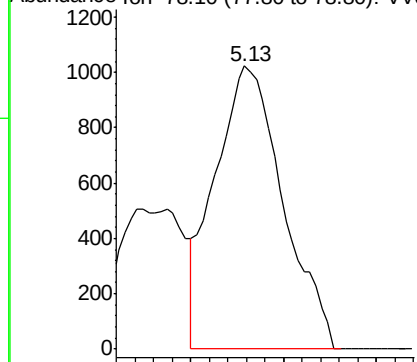
MSVOA_V

ClientSampled :

Tgt Ion: 78 Resp: 2614



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 9.764 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Tgt Ion: 95 Resp: 97432

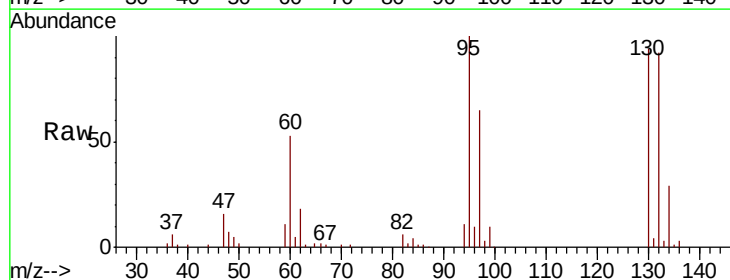
Ion Ratio Lower Upper

95 100

97 64.9 44.7 82.9

132 91.7 65.2 121.0

130 94.4 65.0 120.6

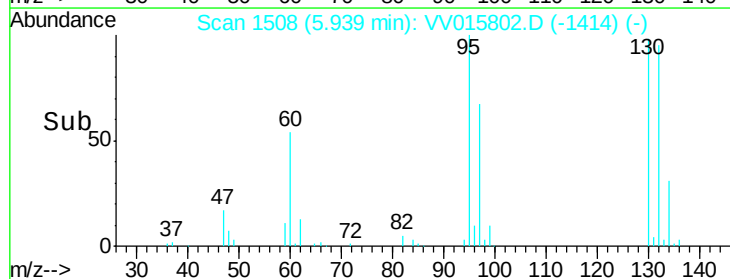
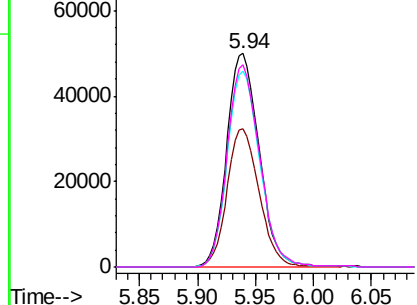


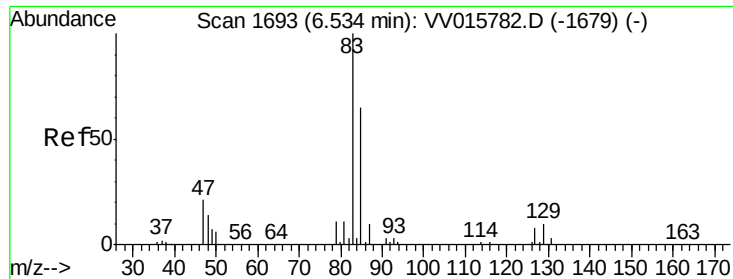
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

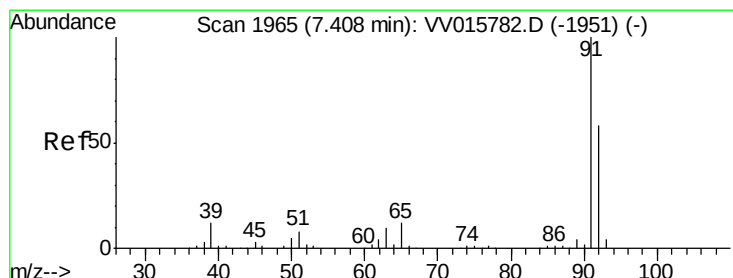
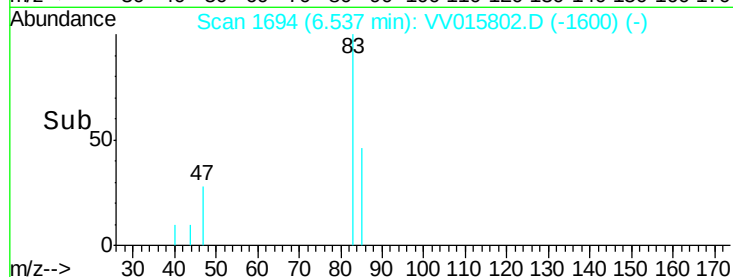
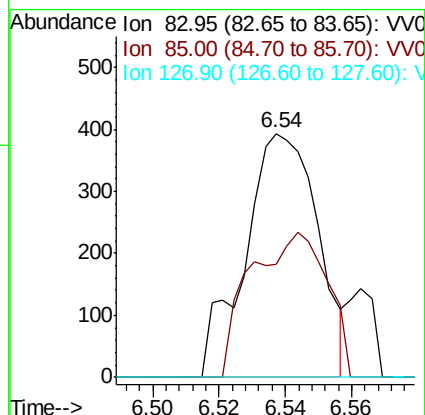
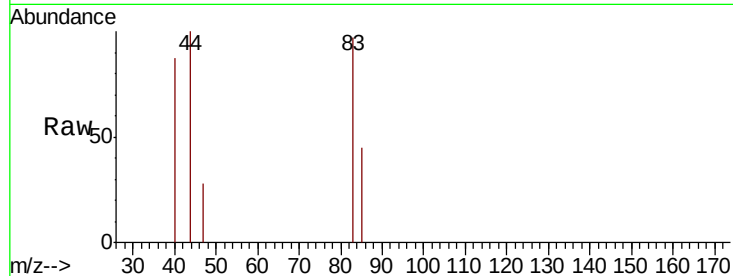




#38
 Bromodichloromethane
 Concen: 0.052 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.00 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

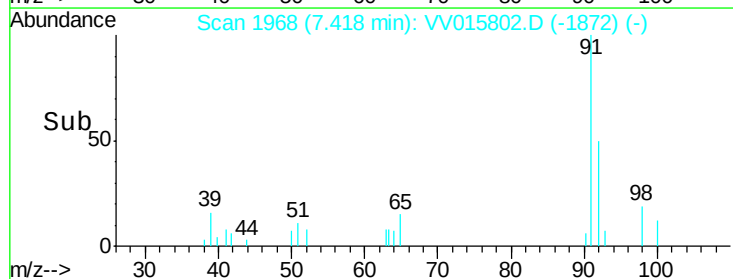
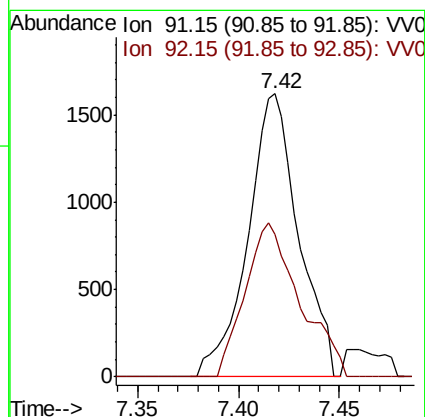
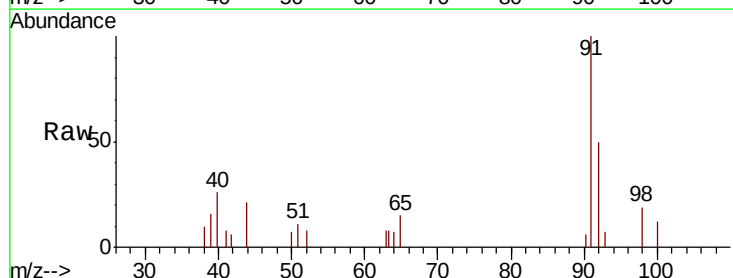
Instrument :
 MSVOA_V
 ClientSampled :

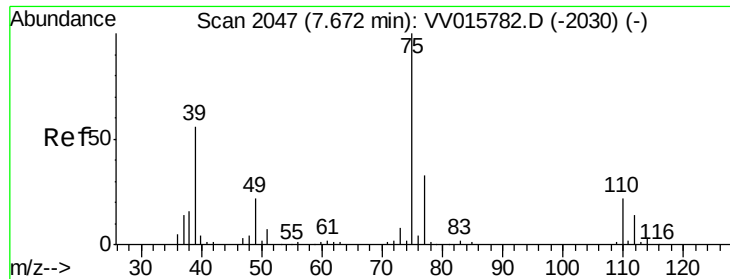
Tot Ion: 83 Resp: 605
 Ion Ratio Lower Upper
 83 100
 85 46.3 44.7 83.1
 127 0.0 5.8 8.6#



#42
 Toluene
 Concen: 0.073 ug/L
 RT: 7.42 min Scan# 1968
 Delta R.T. 0.01 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

Tgt Ion: 91 Resp: 2832
 Ion Ratio Lower Upper
 91 100
 92 50.2 40.7 75.7





#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

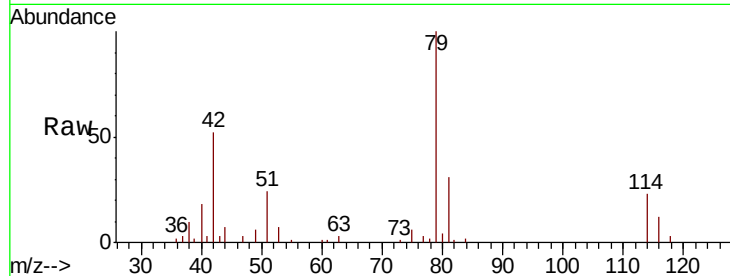
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 75 Resp: 660

Ion Ratio Lower Upper

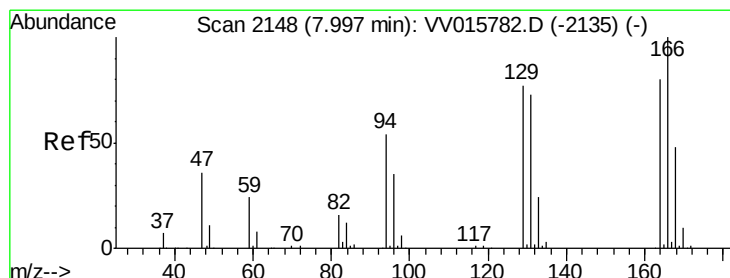
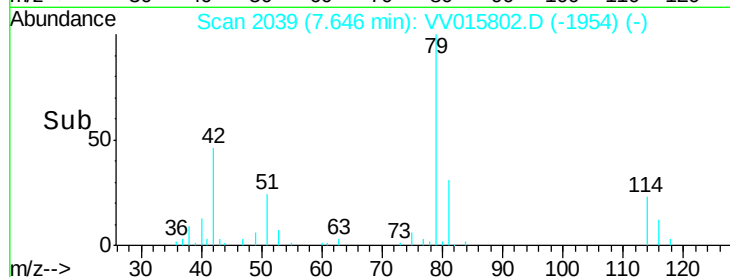
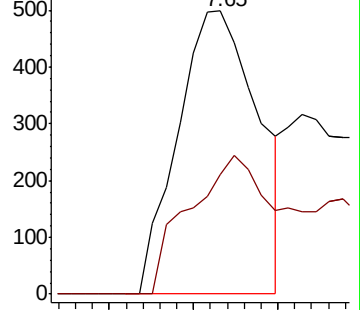
75 100

77 42.4 21.8 40.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#47

Tetrachloroethene

Concen: 0.131 ug/L

RT: 8.01 min Scan# 2151

Delta R.T. 0.01 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Tgt Ion:164 Resp: 941

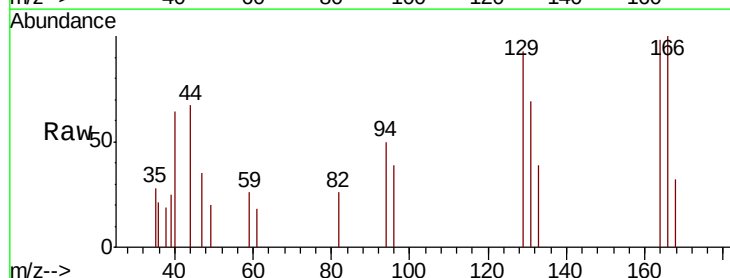
Ion Ratio Lower Upper

164 100

129 94.7 66.7 123.9

131 70.1 66.6 123.6

166 101.8 85.3 158.5

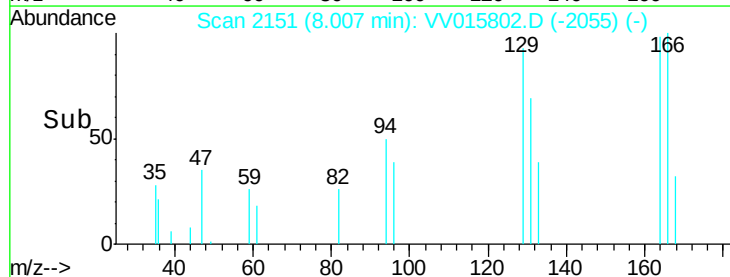
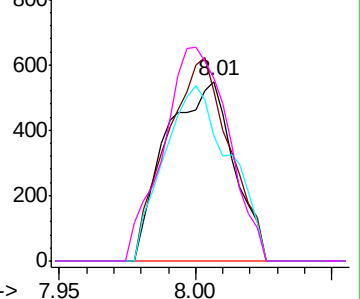


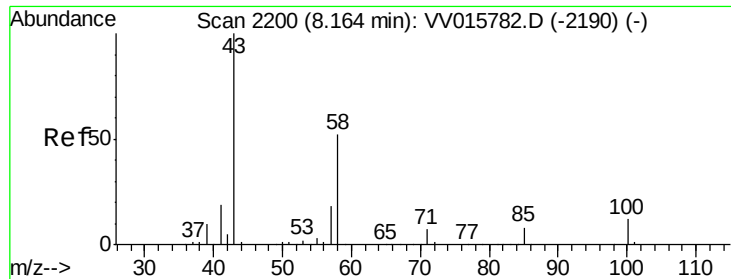
Abundance Ion 163.90 (163.60 to 164.60): V

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

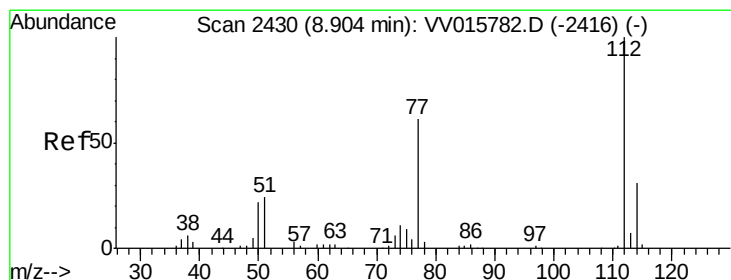
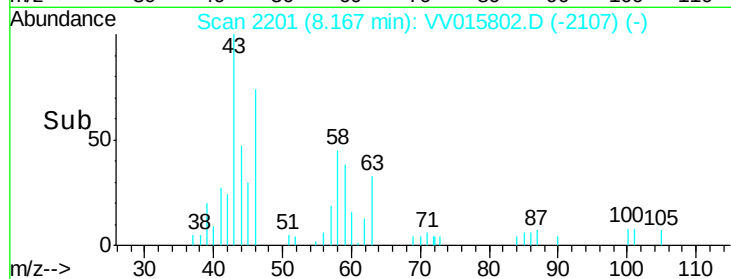
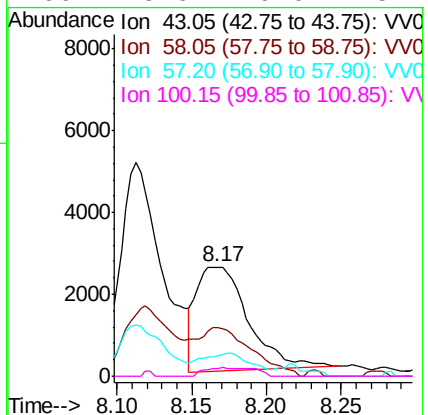
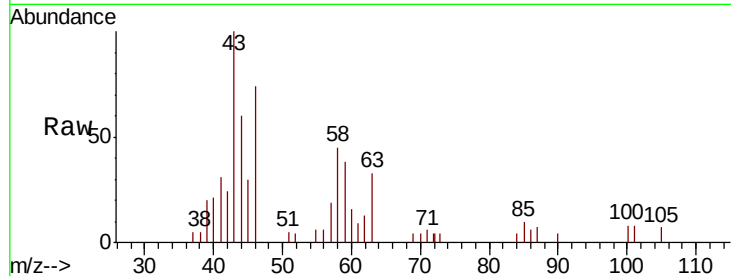




#48
2-Hexanone
Concen: 1.429 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV015802.D
Acq: 29 Apr 2020 19:00

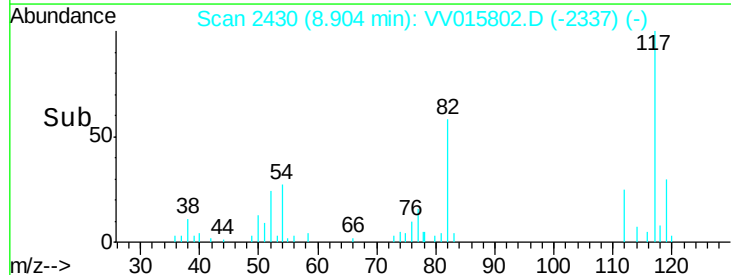
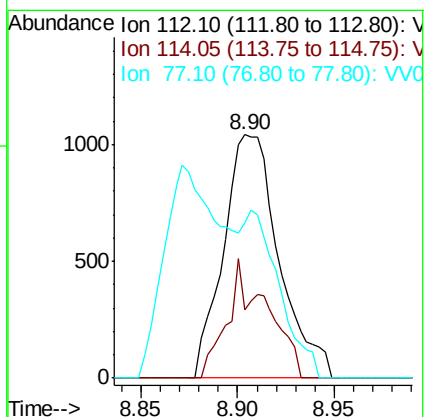
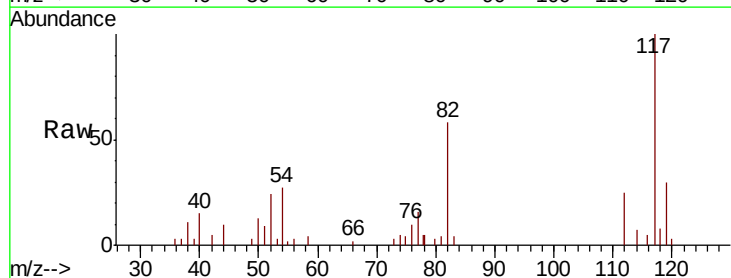
Instrument :
MSVOA_V
ClientSampleId :

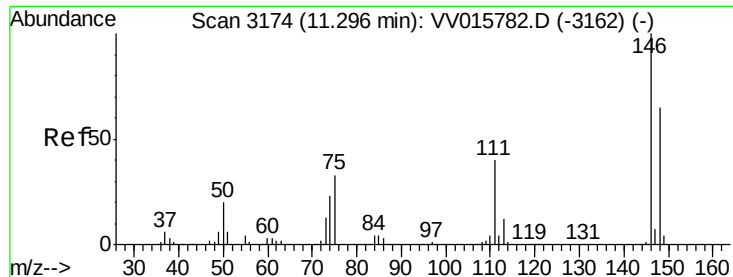
Tot Ion: 43 Resp: 6074
Ion Ratio Lower Upper
43 100
58 43.3 41.1 61.7
57 17.7 15.0 22.4
100 5.6 9.0 13.4#



#51
Chlorobenzene
Concen: 0.082 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV015802.D
Acq: 29 Apr 2020 19:00

Tgt Ion: 112 Resp: 2081
Ion Ratio Lower Upper
112 100
114 28.2 21.6 40.2
77 63.8 48.9 73.3





#63

1,4-Dichlorobenzene

Concen: 0.072 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

Instrument :

MSVOA_V

ClientSampled :

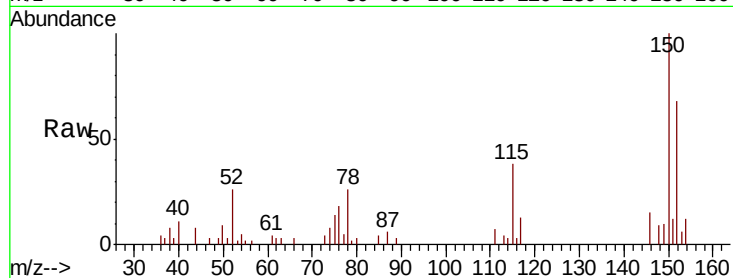
Tot Ion:146 Resp: 1366

Ion Ratio Lower Upper

146 100

111 47.0 28.2 52.4

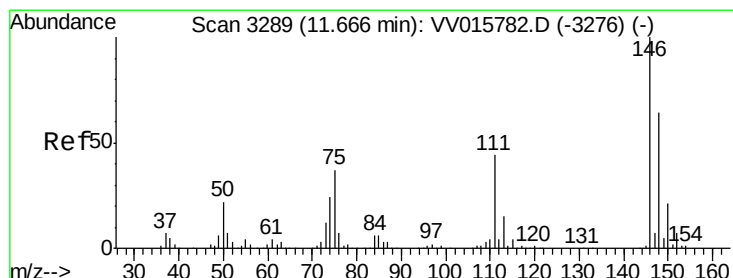
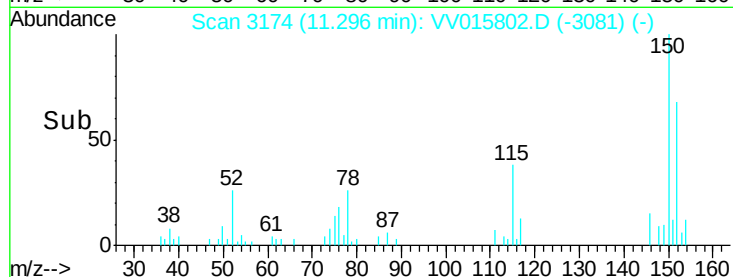
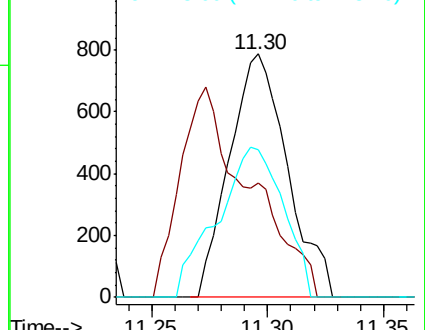
148 60.7 45.7 84.9



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



#65

1,2-Dichlorobenzene

Concen: 0.070 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV015802.D

Acq: 29 Apr 2020 19:00

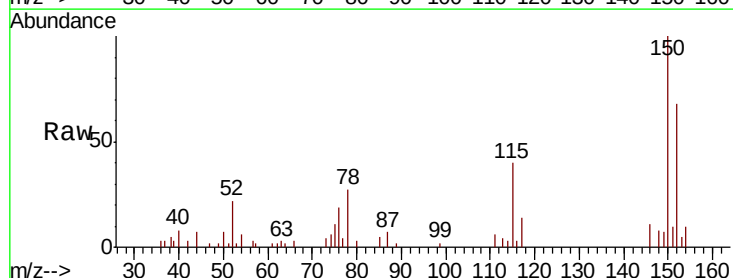
Tgt Ion:146 Resp: 1198

Ion Ratio Lower Upper

146 100

111 59.1 34.7 52.1#

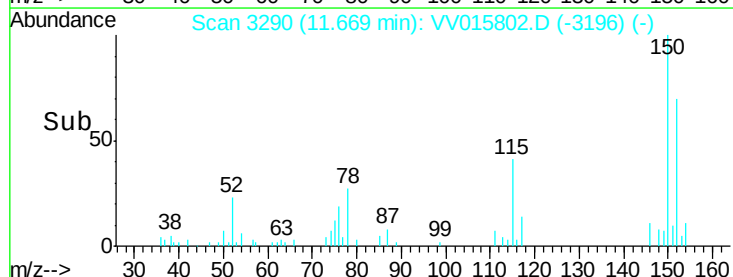
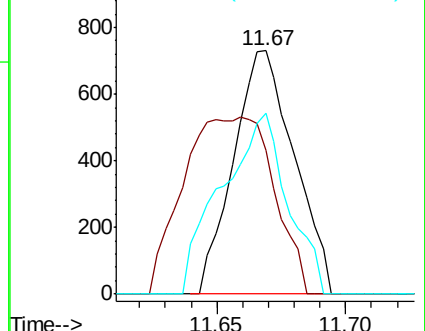
148 74.1 51.3 76.9

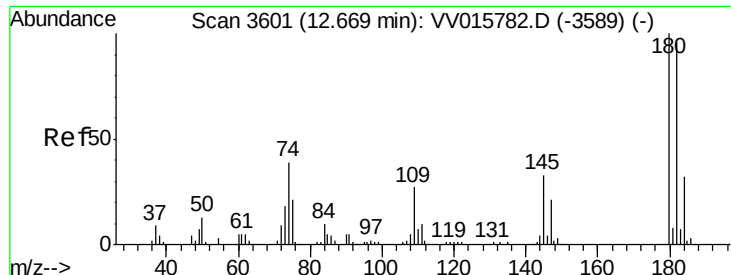


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

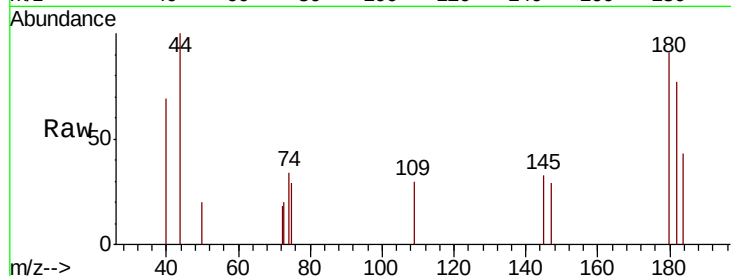




#67
 1,3,5-Trichlorobenzene
 Concen: 0.057 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VV015802.D
 Acq: 29 Apr 2020 19:00

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	795
Ion	Ratio	Lower	Upper
180	100		
182	101.8	78.2	117.4
184	29.7	25.0	37.4
145	26.5	26.4	39.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

