

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032720\
 Data File : VV015225.D
 Acq On : 28 Mar 2020 05:09
 Operator : SY/MD
 Sample : L2003-01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 28 07:00:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032720WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 28 05:21:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	675770	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.92	117	909576	50.00	ug/L	0.04
60) 1,4-Dichlorobenzene-d4	11.16	152	103	50.00	ug/L	-0.11

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	139194	50.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.52%
7) Chloroethane-d5	1.66	69	218	0.07	ug/L	0.08
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.14%#
11) 1,1-Dichloroethene-d2	2.12	63	227754	33.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.44%
21) 2-Butanone-d5	3.94	46	210769	64.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	64.89%
24) Chloroform-d	4.38	84	323065	45.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.34%
26) 1,2-Dichloroethane-d4	5.06	65	186191	39.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.90%
32) Benzene-d6	5.08	84	544020	33.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	67.94%#
36) 1,2-Dichloropropane-d6	6.10	67	183124	30.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	61.06%#
41) Toluene-d8	7.34	98	522758	37.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	74.08%#
43) trans-1,3-Dichloropropene-	7.64	79	91141	28.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.86%#
47) 2-Hexanone-d5	8.12	63	177769	51.34	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	51.34%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	303889	28.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	57.52%#
64) 1,2-Dichlorobenzene-d4	11.79	152	92	52.36	ug/L	0.15
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.72%

Target Compounds

					Ovalue
13) Acetone	2.21	43	15965	8.420	ug/L # 100
25) Chloroform	4.40	83	959428	110.629	ug/L 98
27) 1,2-Dichloroethane	5.14	62	884031	132.141	ug/L # 75
29) Cyclohexane	4.70	56	47347	4.752	ug/L 98
31) Carbon tetrachloride	4.86	117	397689	43.461	ug/L 99
34) Trichloroethene	5.95	95	6186	0.906	ug/L 84
35) Methylcyclohexane	6.15	83	19041	1.825	ug/L # 70
38) Bromodichloromethane	6.54	83	10341	1.100	ug/L 94
42) Toluene	7.41	91	27144	0.963	ug/L 97
46) Tetrachloroethene	8.00	164	6851	1.550	ug/L 97
48) 2-Hexanone	8.12	43	21843	3.038	ug/L # 76
61) Bromoform	9.76	173	1509	1389.832	ug/L # 95
65) 1,2-Dichlorobenzene	11.57	146	257	78.188	ug/L # 76
66) 1,2-Dibromo-3-chloropropan	12.42	75	118437	172861.010	ug/L # 8
67) 1,3,5-Trichlorobenzene	12.67	180	21291	10460.584	ug/L 98
68) 1,2,4-trichlorobenzene	13.40	180	460	243.005	ug/L # 1
69) Naphthalene	13.53	128	26185	3431.383	ug/L 98

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Quant Title : VOC Analysis
QLast Update : Sat Mar 28 05:21:13 2020
Response via : Initial Calibration

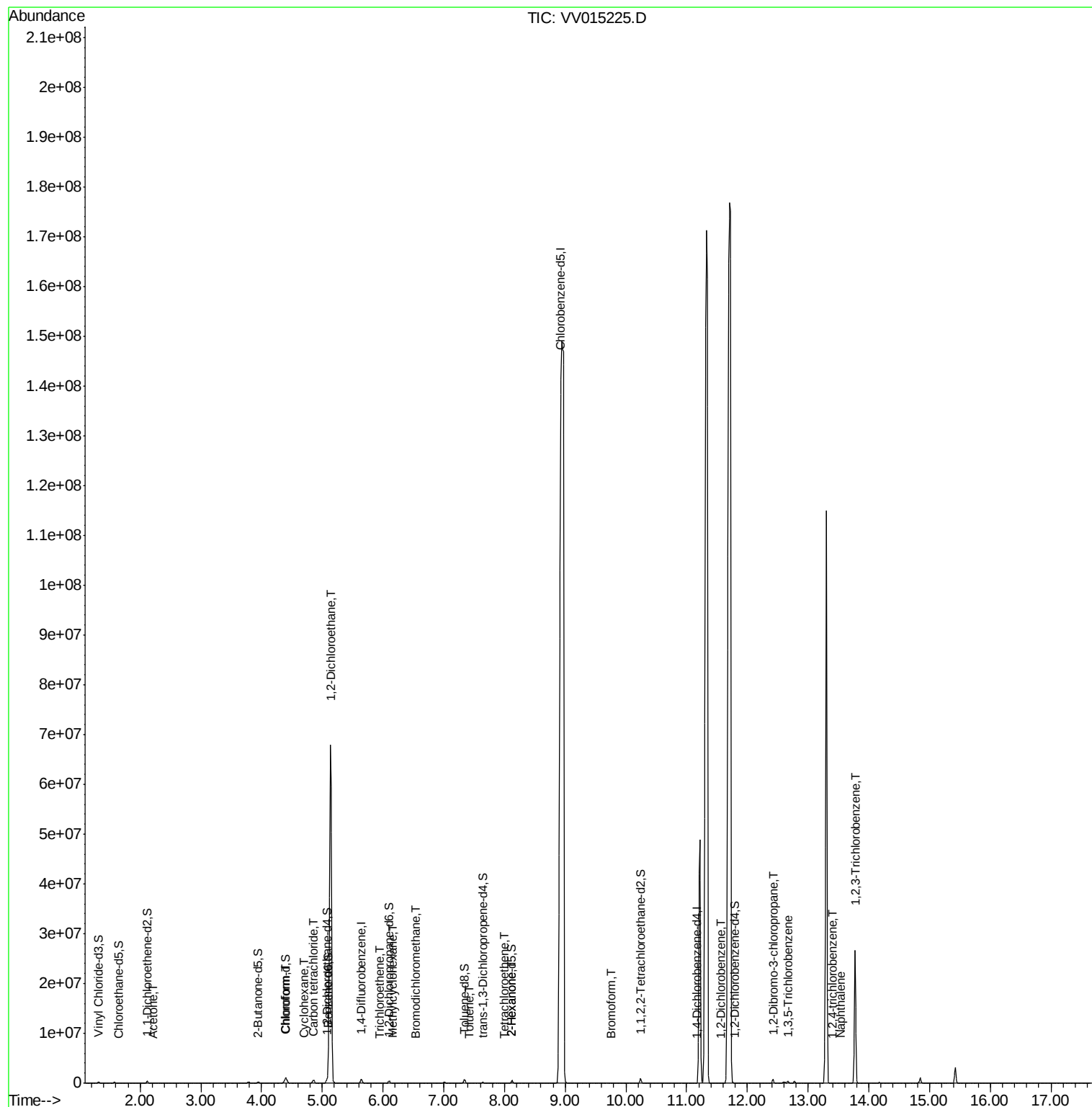
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 1,2,3-Trichlorobenzene	13.77	180	7233367	3726391.053	ug/L		99

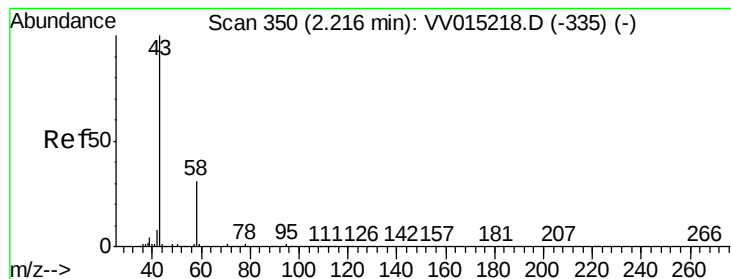
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032720WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Mar 28 05:21:13 2020
Response via : Initial Calibration





#13

Acetone

Concen: 8.420 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

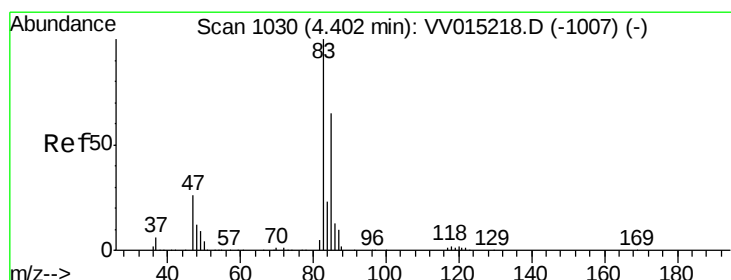
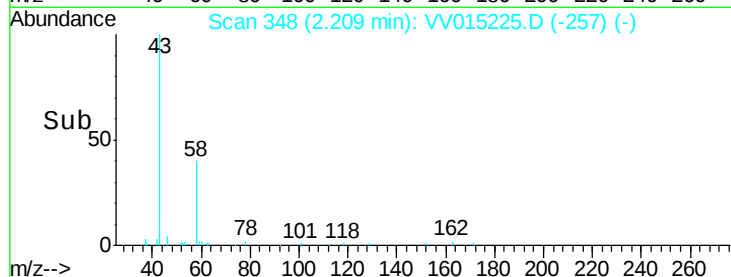
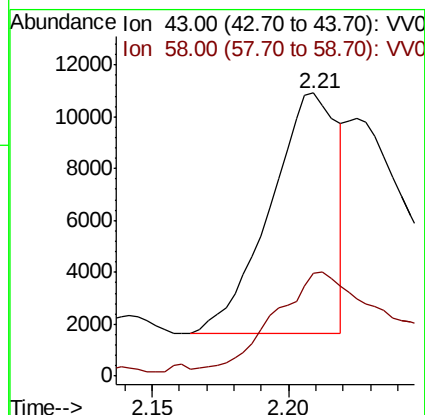
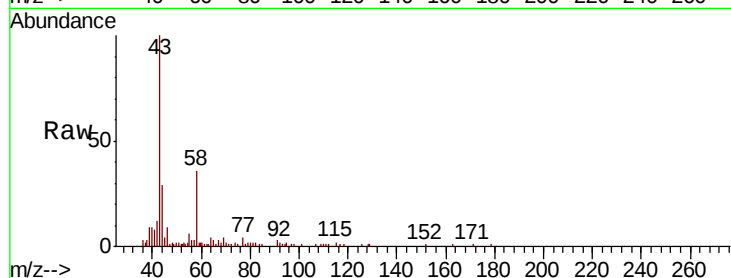
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 15965

Ion Ratio Lower Upper

43 100

58 74.0 0.0 0.0#



#25

Chloroform

Concen: 110.629 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV015225.D

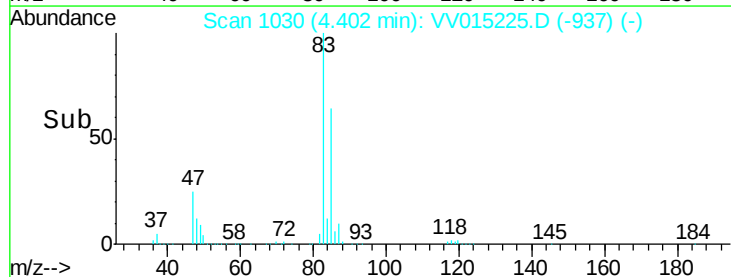
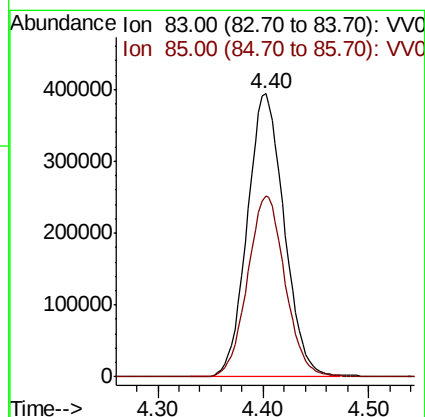
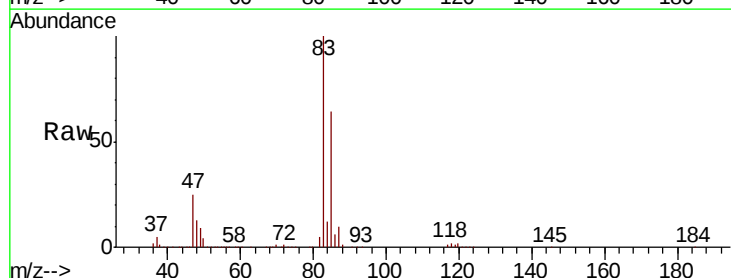
Acq: 28 Mar 2020 05:09

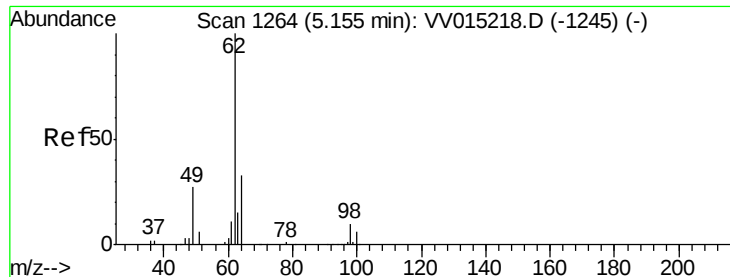
Tgt Ion: 83 Resp: 959428

Ion Ratio Lower Upper

83 100

85 64.0 46.2 85.8





#27

1,2-Dichloroethane

Concen: 132.141 ug/L

RT: 5.14 min Scan# 1259

Delta R.T. -0.02 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

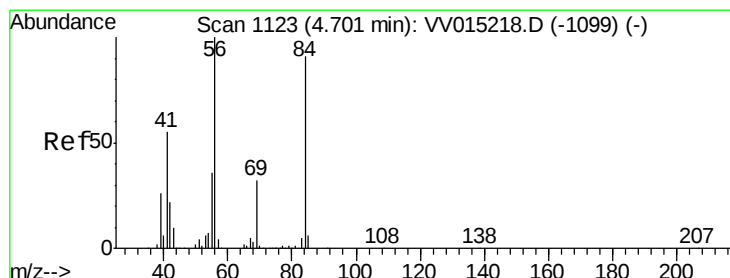
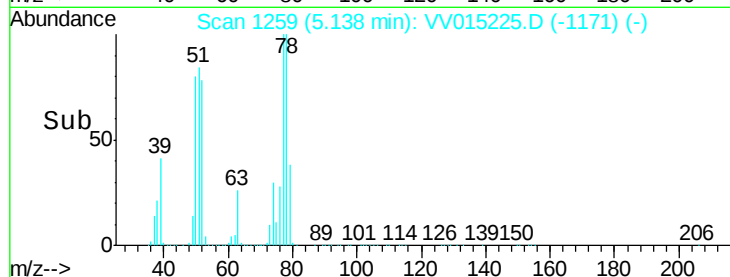
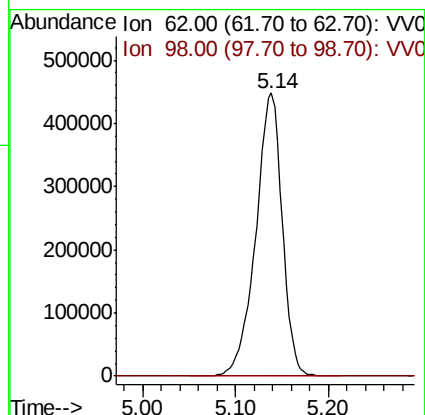
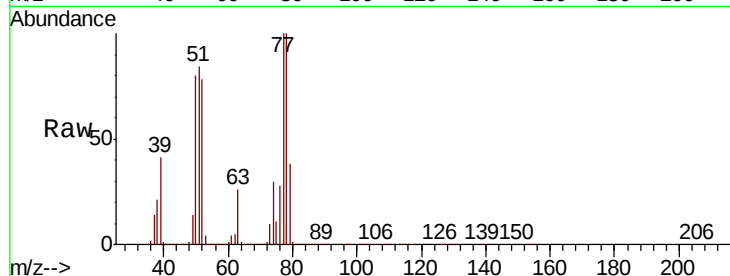
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 884031

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#29

Cyclohexane

Concen: 4.752 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

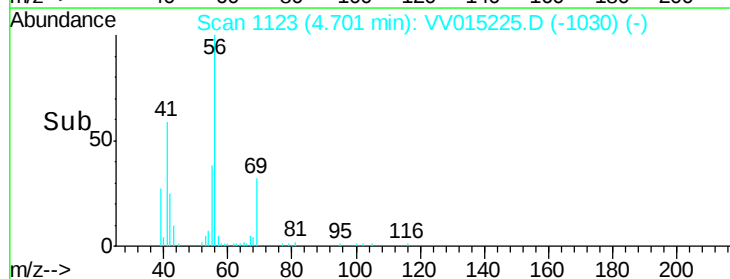
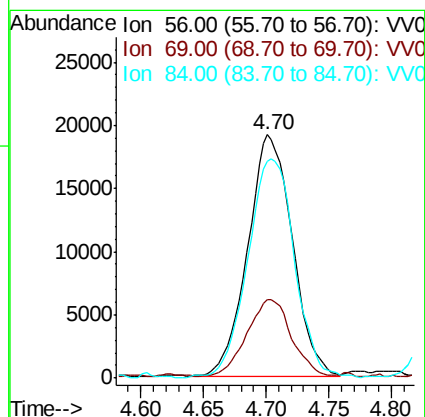
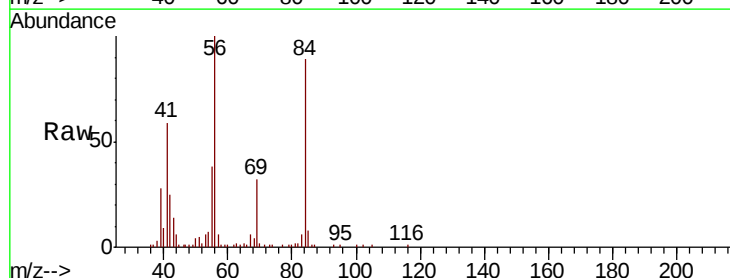
Tgt Ion: 56 Resp: 47347

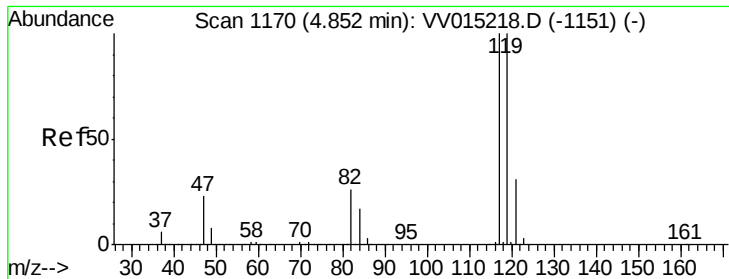
Ion Ratio Lower Upper

56 100

69 31.6 25.8 38.6

84 93.2 72.5 108.7





#31

Carbon tetrachloride

Concen: 43.461 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

Instrument :

MSVOA_V

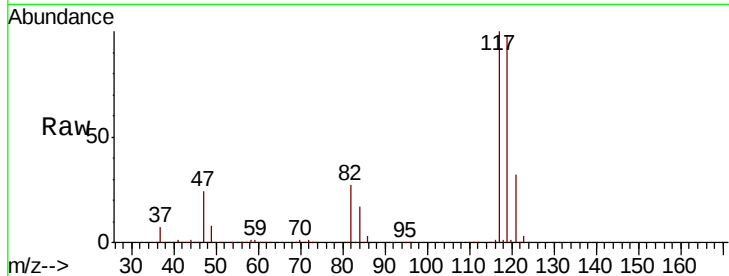
ClientSampleId :

Tot Ion:117 Resp: 397689

Ion Ratio Lower Upper

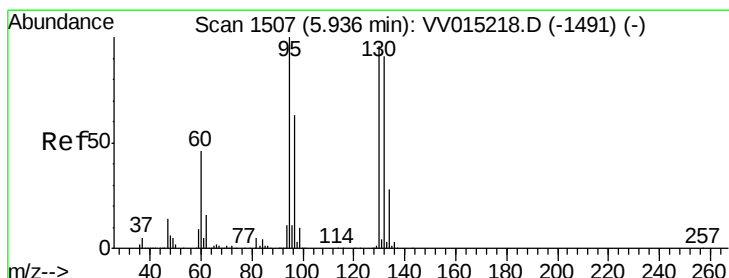
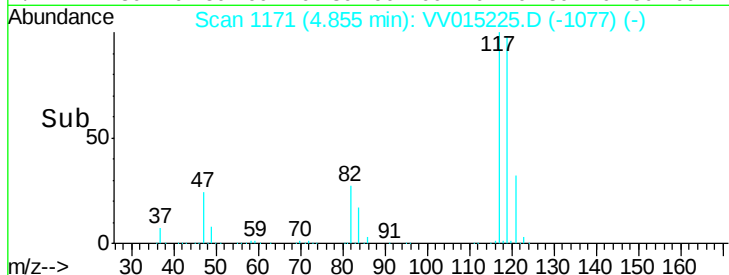
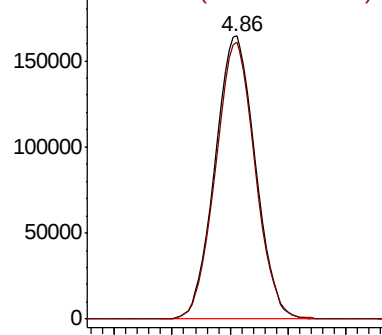
117 100

119 96.3 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Trichloroethene

Concen: 0.906 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

Tgt Ion: 95 Resp: 6186

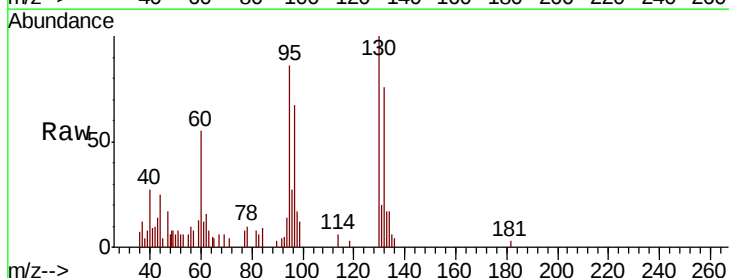
Ion Ratio Lower Upper

95 100

97 59.0 45.7 84.9

132 67.1 66.2 123.0

130 88.3 67.6 125.6

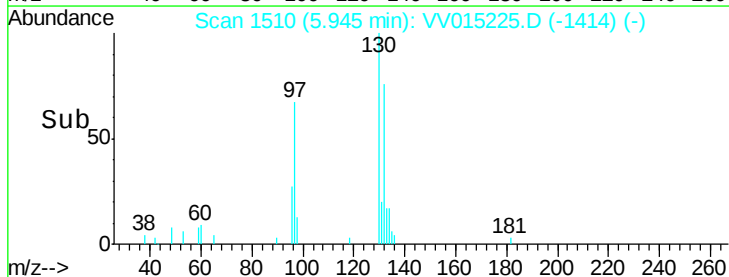
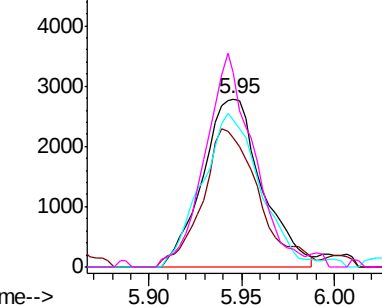


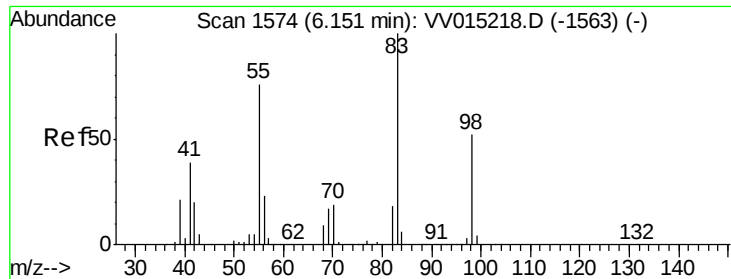
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

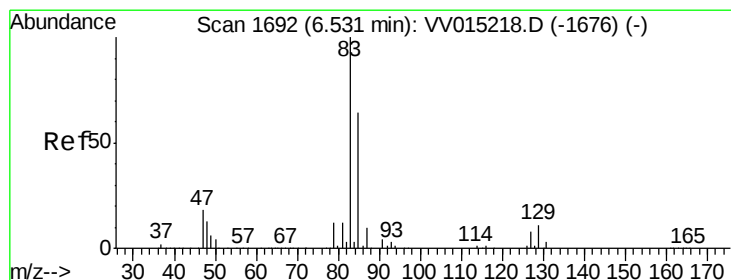
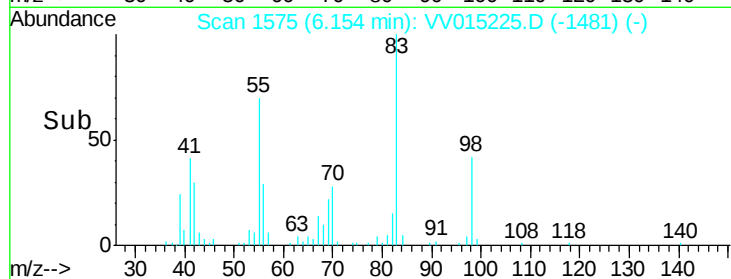
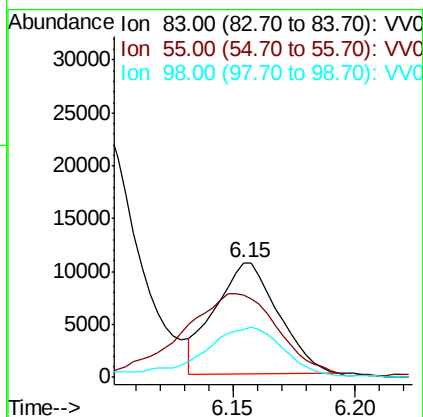
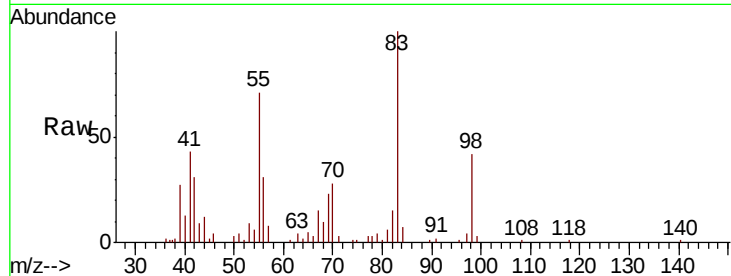




#35
Methylcyclohexane
Concen: 1.825 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VV015225.D
Acq: 28 Mar 2020 05:09

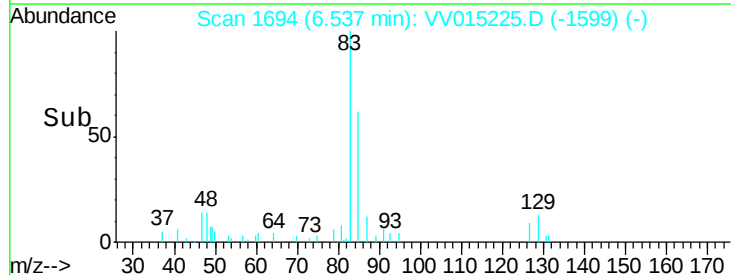
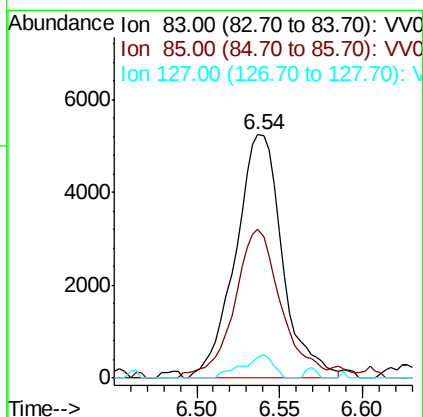
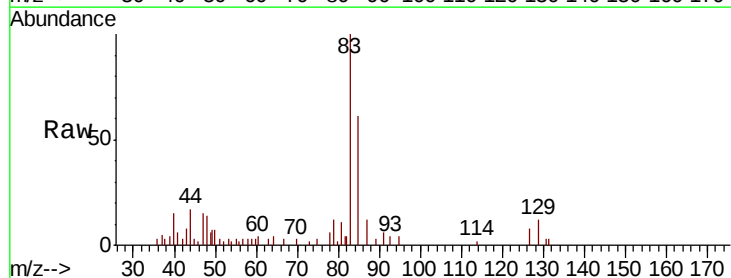
Instrument :
MSVOA_V
ClientSampled :

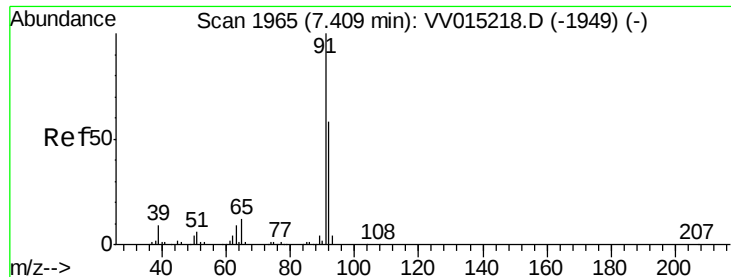
Tot Ion: 83 Resp: 19041
Ion Ratio Lower Upper
83 100
55 114.1 58.2 87.2#
98 50.3 41.0 61.4



#38
Bromodichloromethane
Concen: 1.100 ug/L
RT: 6.54 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VV015225.D
Acq: 28 Mar 2020 05:09

Tgt Ion: 83 Resp: 10341
Ion Ratio Lower Upper
83 100
85 61.0 46.3 85.9
127 8.4 6.5 9.7





#42

Toluene

Concen: 0.963 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

Instrument :

MSVOA_V

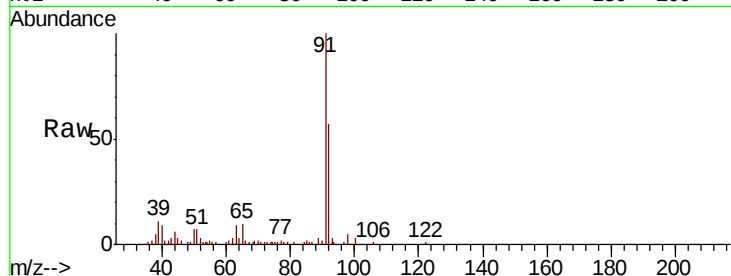
ClientSampleId :

Tot Ion: 91 Resp: 27144

Ion Ratio Lower Upper

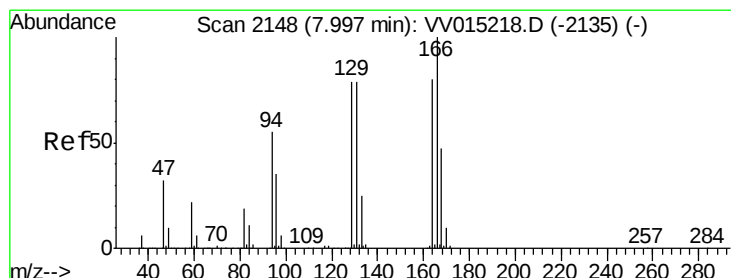
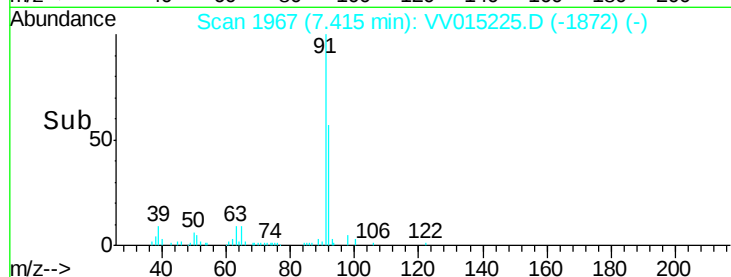
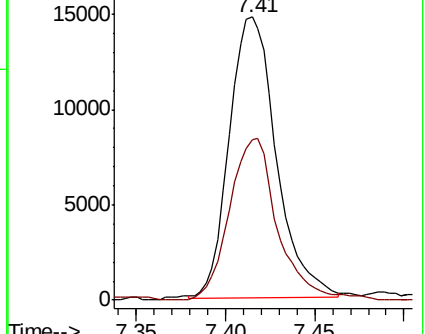
91 100

92 56.5 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV015218.D (-1949) (-)

Ion 92.00 (91.70 to 92.70): VV015218.D (-1949) (-)



#46

Tetrachloroethene

Concen: 1.550 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

Tgt Ion: 164 Resp: 6851

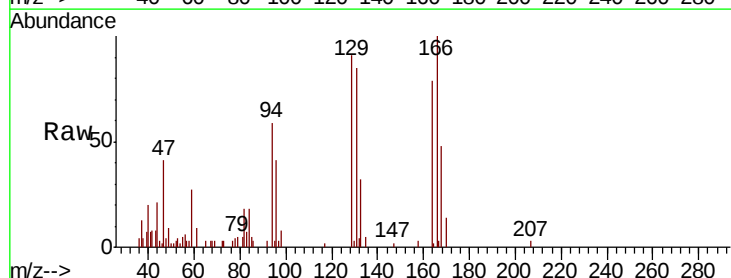
Ion Ratio Lower Upper

164 100

129 111.3 75.3 139.9

131 104.3 71.8 133.4

166 122.4 87.9 163.3

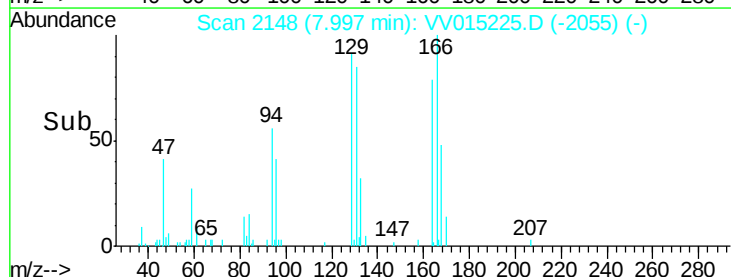
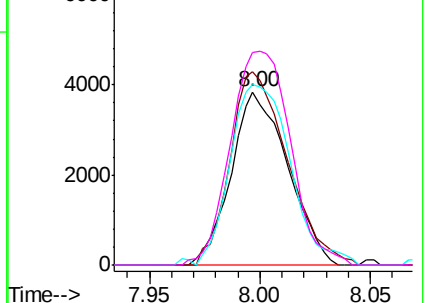


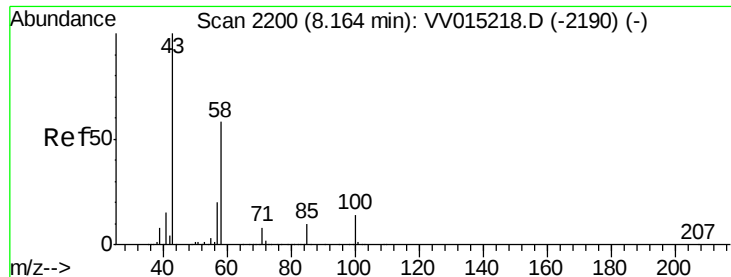
Abundance Ion 164.00 (163.70 to 164.70): VV015218.D (-2135) (-)

Ion 129.00 (128.70 to 129.70): VV015218.D (-2135) (-)

Ion 131.00 (130.70 to 131.70): VV015218.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV015218.D (-2135) (-)

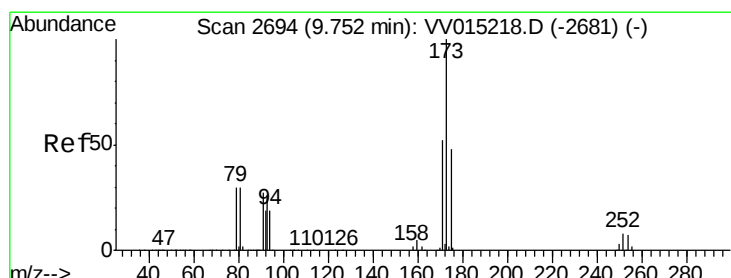
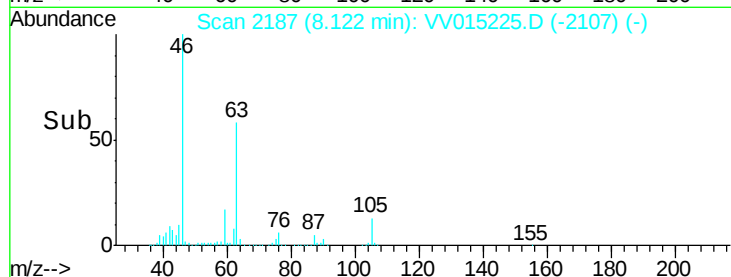
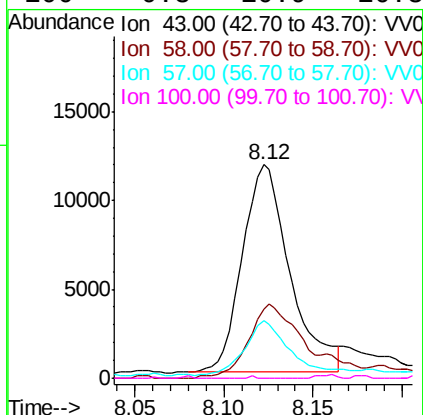
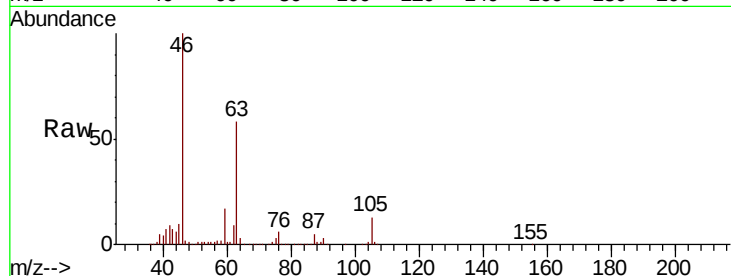




#48
2-Hexanone
Concen: 3.038 ug/L
RT: 8.12 min Scan# 2187
Delta R.T. -0.04 min
Lab File: VV015225.D
Acq: 28 Mar 2020 05:09

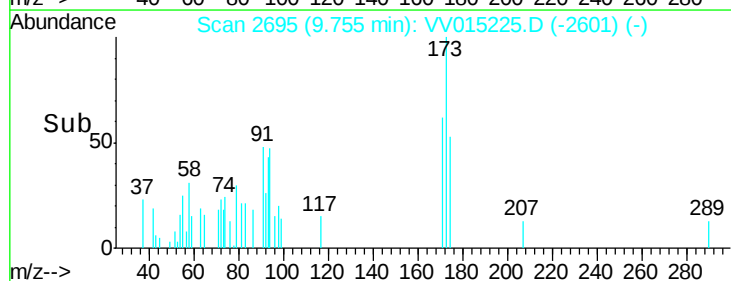
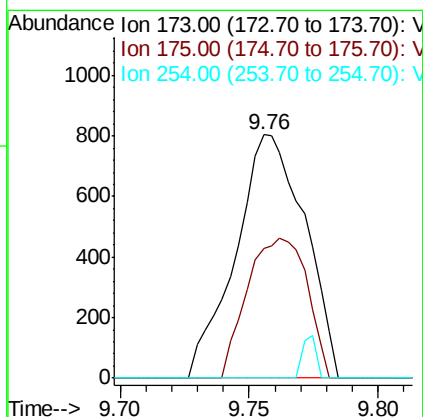
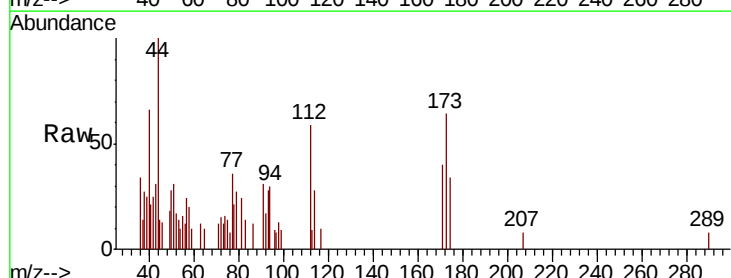
Instrument :
MSVOA_V
ClientSampleId :

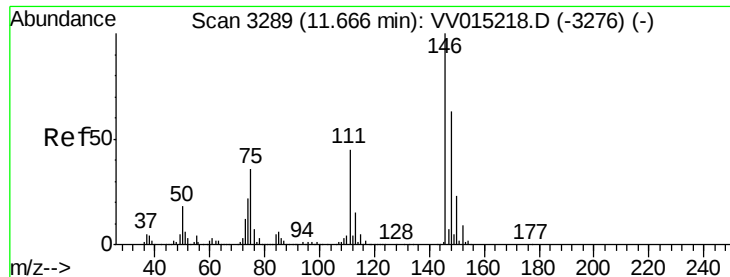
Tot Ion	Ratio	Lower	Upper
43	100		
58	37.2	45.5	68.3#
57	24.1	15.8	23.6#
100	0.3	10.9	16.3#



#61
Bromoform
Concen: 1389.832 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VV015225.D
Acq: 28 Mar 2020 05:09

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.7	37.6	56.4
254	3.4	5.5	8.3#





#65

1,2-Dichlorobenzene

Concen: 78.188 ug/L

RT: 11.57 min Scan# 3259

Delta R.T. -0.10 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

Instrument :

MSVOA_V

ClientSampleId :

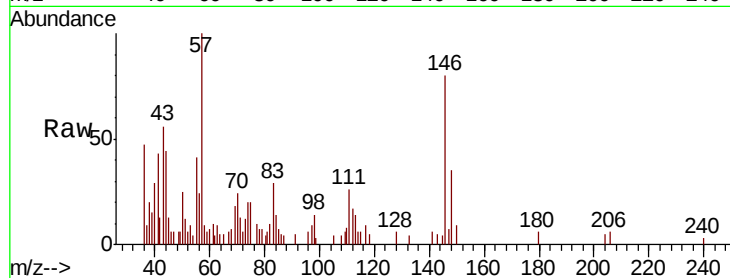
Tot Ion:146 Resp: 257

Ion Ratio Lower Upper

146 100

111 32.6 37.6 56.4#

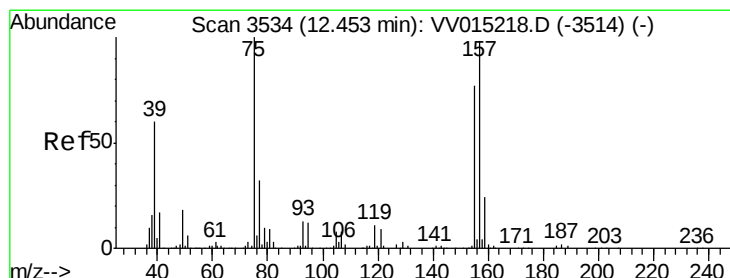
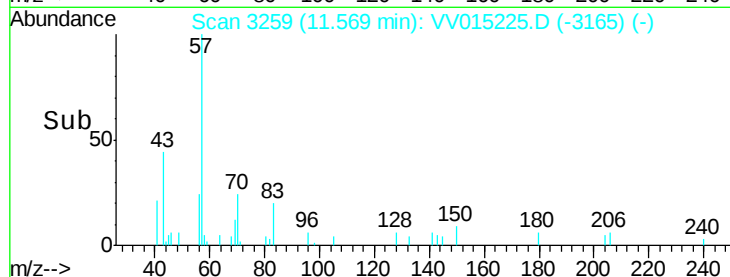
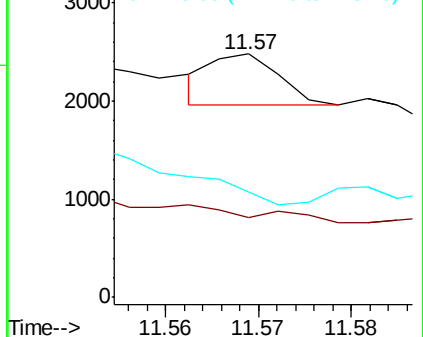
148 43.3 50.6 76.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 172861.010 ug/L

RT: 12.42 min Scan# 3524

Delta R.T. -0.03 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

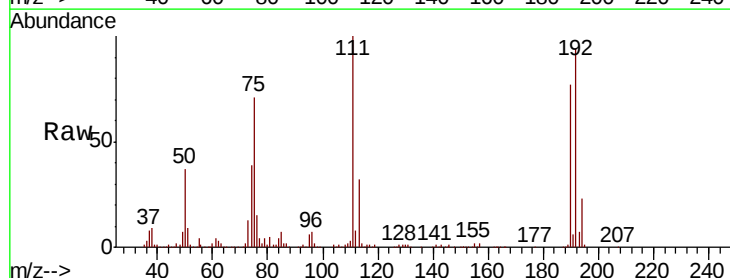
Tgt Ion: 75 Resp: 118437

Ion Ratio Lower Upper

75 100

155 2.6 59.1 88.7#

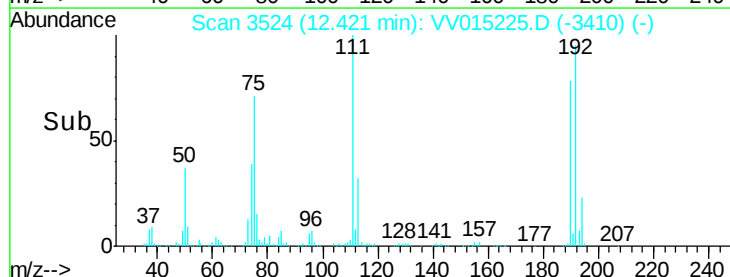
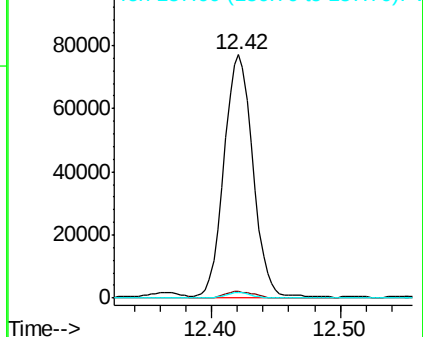
157 2.4 78.9 118.3#

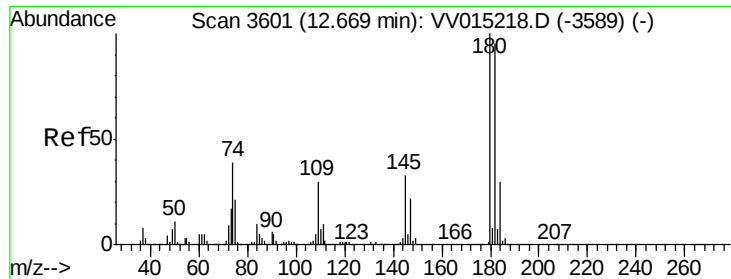


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

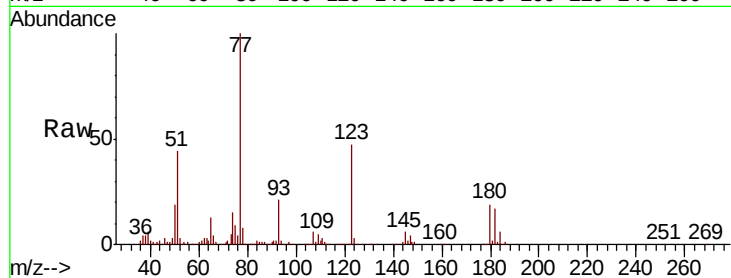




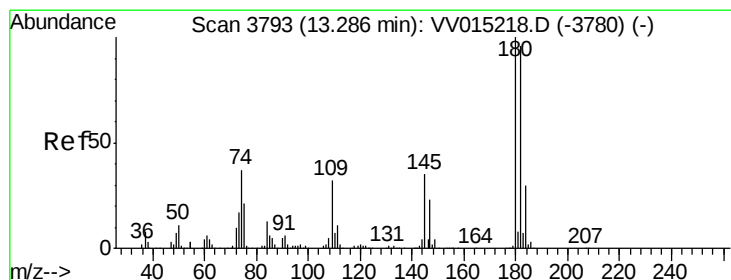
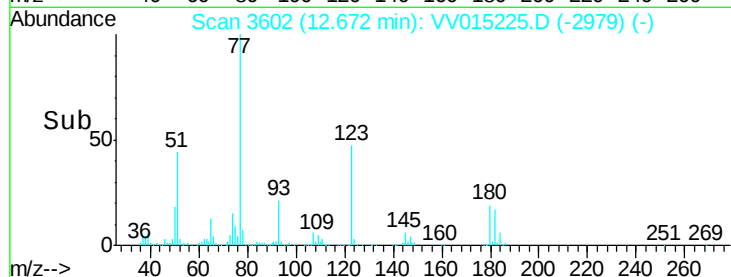
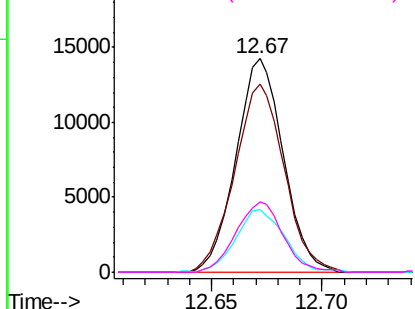
#67
 1,3,5-Trichlorobenzene
 Concen: 10460.584 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VV015225.D
 Acq: 28 Mar 2020 05:09

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:180 Resp: 21291
 Ion Ratio Lower Upper
 180 100
 182 92.1 75.4 113.0
 184 29.7 23.8 35.8
 145 32.7 26.9 40.3

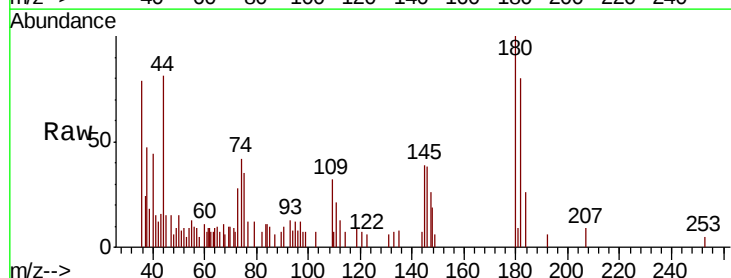


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

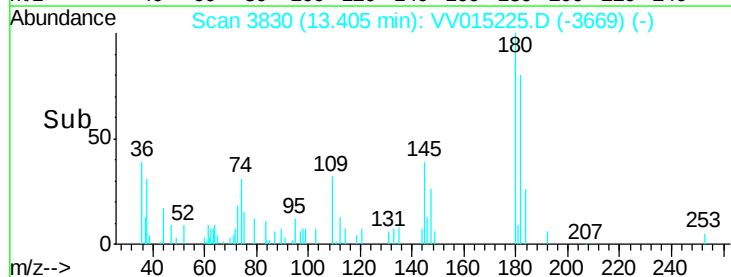
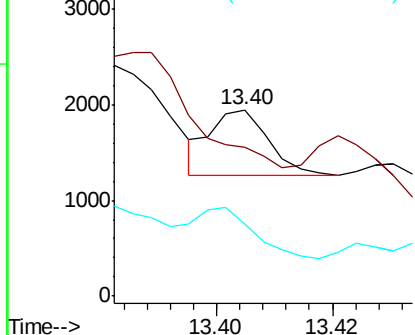


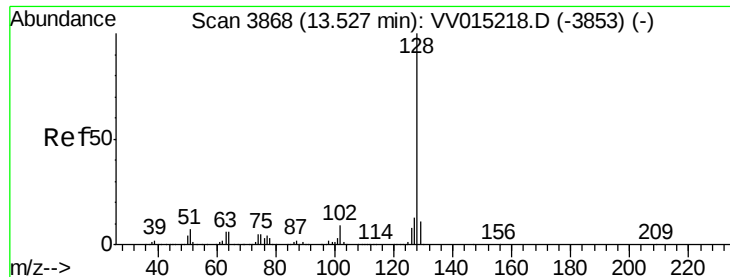
#68
 1,2,4-trichlorobenzene
 Concen: 243.005 ug/L
 RT: 13.40 min Scan# 3830
 Delta R.T. 0.12 min
 Lab File: VV015225.D
 Acq: 28 Mar 2020 05:09

Tgt Ion:180 Resp: 460
 Ion Ratio Lower Upper
 180 100
 182 0.0 75.5 113.3#
 145 205.7 28.5 42.7#



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





#69

Naphthalene

Concen: 3431.383 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

Instrument :

MSVOA_V

ClientSampleId :

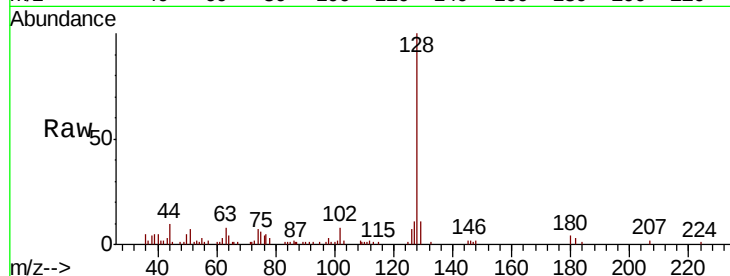
Tot Ion:128 Resp: 26185

Ion Ratio Lower Upper

128 100

127 12.3 10.6 15.8

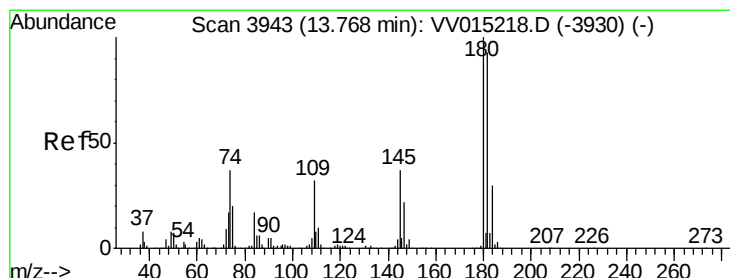
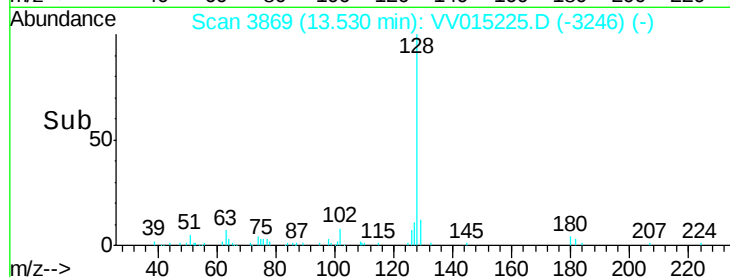
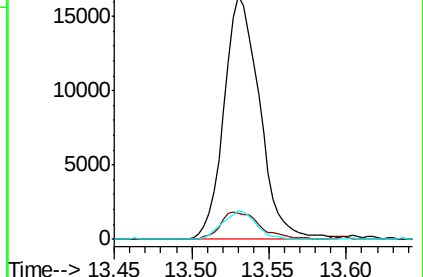
129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3726391.053 ug/L

RT: 13.77 min Scan# 3945

Delta R.T. 0.01 min

Lab File: VV015225.D

Acq: 28 Mar 2020 05:09

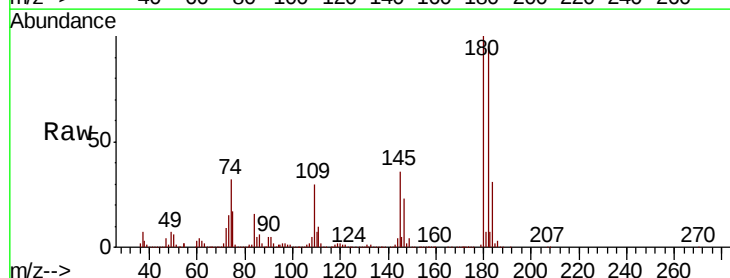
Tgt Ion:180 Resp: 7233367

Ion Ratio Lower Upper

180 100

182 94.3 75.9 113.9

145 35.7 29.0 43.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

