

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
 Data File : VV014952.D
 Acq On : 16 Mar 2020 17:43
 Operator : SY/MD
 Sample : L1890-17
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DH4

Quant Time: Mar 18 03:21:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Mar 18 03:17:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	374081	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	381089	50.00	ug/L	0.02
60) 1,4-Dichlorobenzene-d4	11.27	152	217422	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	106372	42.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.36%
7) Chloroethane-d5	1.58	69	80226	43.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.68%
11) 1,1-Dichloroethene-d2	2.12	63	130172	34.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.08%
21) 2-Butanone-d5	3.93	46	120874	79.55	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.55%
24) Chloroform-d	4.38	84	223318	43.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.02%
26) 1,2-Dichloroethane-d4	5.07	65	152671	46.41	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.82%
32) Benzene-d6	5.09	84	468868	44.66	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.32%
36) 1,2-Dichloropropane-d6	6.10	67	135564	43.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.72%
41) Toluene-d8	7.34	98	458513	44.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.32%
43) trans-1,3-Dichloropropene-	7.64	79	68285	41.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.16%
47) 2-Hexanone-d5	8.12	63	122046	86.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.49%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	193766	42.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.68%
64) 1,2-Dichlorobenzene-d4	11.76	152	48	0.01	ug/L	0.11
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.02%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1507	0.782	ug/L #	15
20) cis-1,2-Dichloroethene	3.94	96	6827	2.429	ug/L	97
27) 1,2-Dichloroethane	5.17	62	1177040	318.904	ug/L #	75
29) Cyclohexane	4.71	56	6671	1.695	ug/L #	90
34) Trichloroethene	5.95	95	2156	0.775	ug/L	88
39) cis-1,3-Dichloropropene	7.01	75	4251	0.995	ug/L #	67
42) Toluene	7.41	91	12353	1.059	ug/L	96
46) Tetrachloroethene	8.00	164	1347	0.518	ug/L	82
48) 2-Hexanone	8.12	43	14296	5.149	ug/L #	77
62) 1,3-Dichlorobenzene	11.20	146	717413	100.129	ug/L	99
63) 1,4-Dichlorobenzene	11.30	146	14513349	2010.884	ug/L	90
65) 1,2-Dichlorobenzene	11.67	146	7663995	1070.831	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.42	75	1173	1.090	ug/L #	1
67) 1,3,5-Trichlorobenzene	13.28	180	271666	48.361	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	271666	54.258	ug/L	100
70) 1,2,3-Trichlorobenzene	13.76	180	21372	4.312	ug/L	97

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QLast Update : Wed Mar 18 03:17:46 2020
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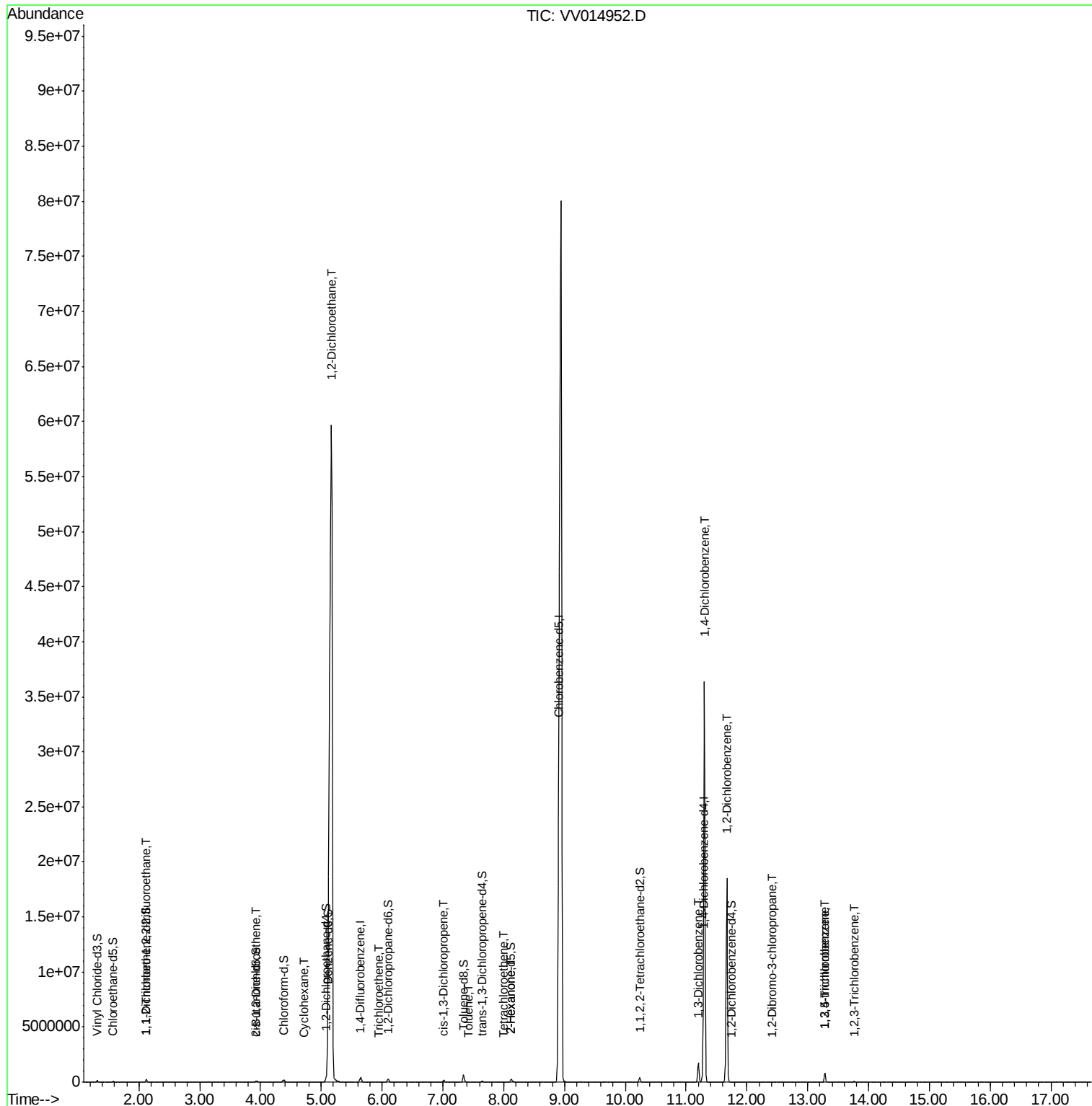
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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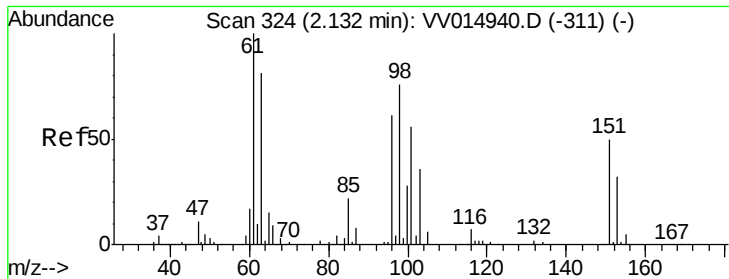
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.782 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV014952.D

Acq: 16 Mar 2020 17:43

Instrument :

MSVOA_V

ClientSampleId :

C0DH4

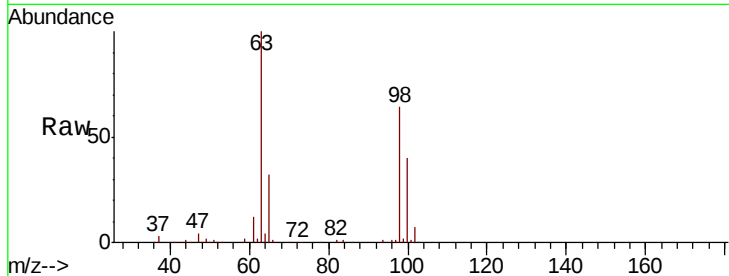
Tot Ion:101 Resp: 1507

Ion Ratio Lower Upper

101 100

85 0.0 33.9 50.9#

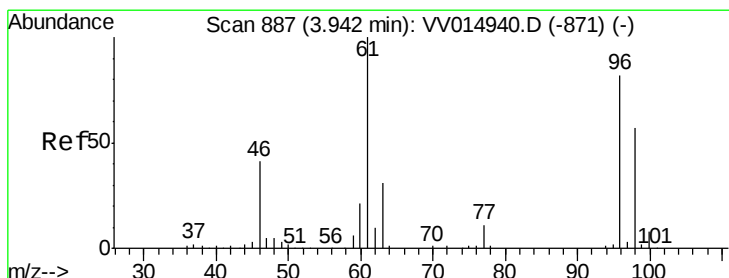
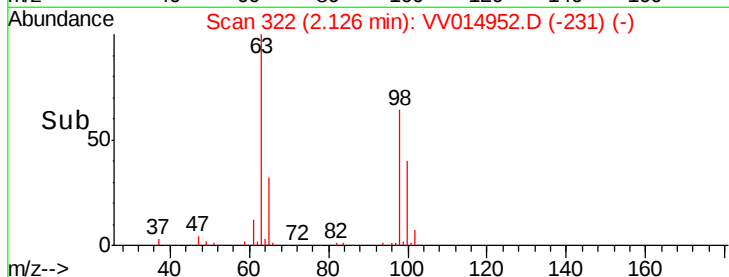
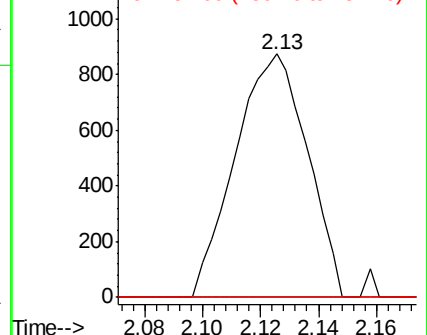
151 0.0 70.1 105.1#



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



#20

cis-1,2-Dichloroethene

Concen: 2.429 ug/L

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VV014952.D

Acq: 16 Mar 2020 17:43

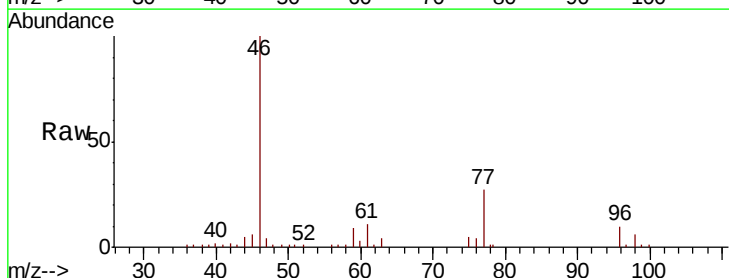
Tgt Ion: 96 Resp: 6827

Ion Ratio Lower Upper

96 100

61 111.5 80.2 149.0

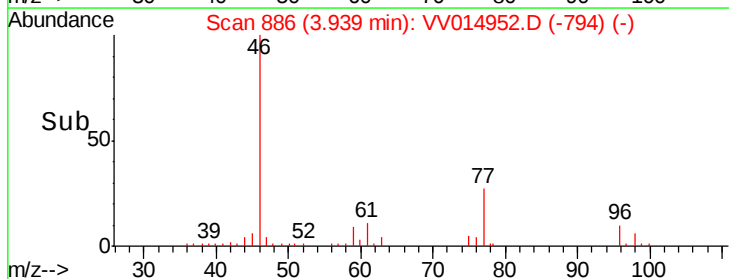
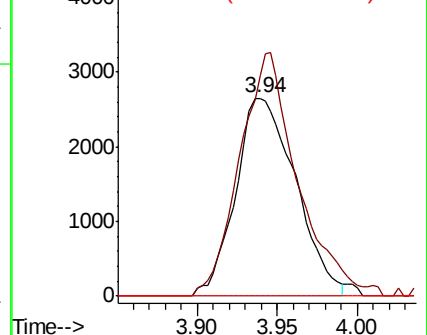
68 0.0 0.0 0.0

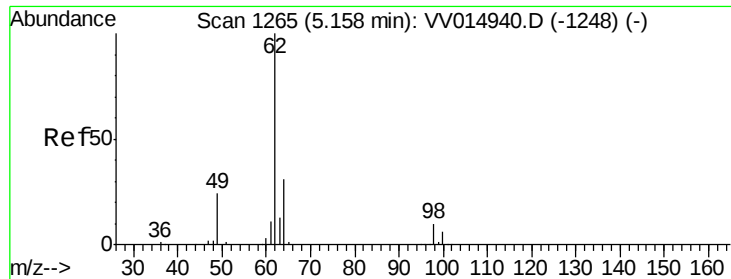


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

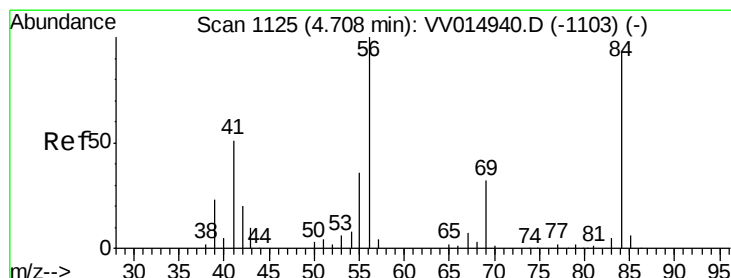
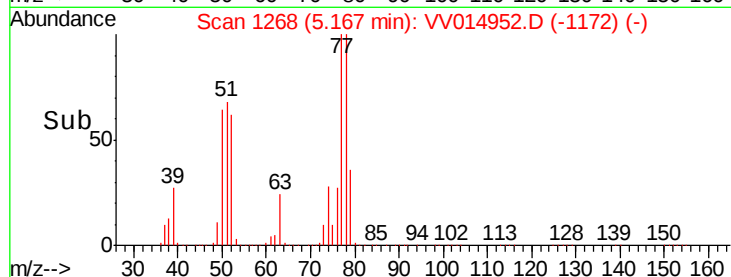
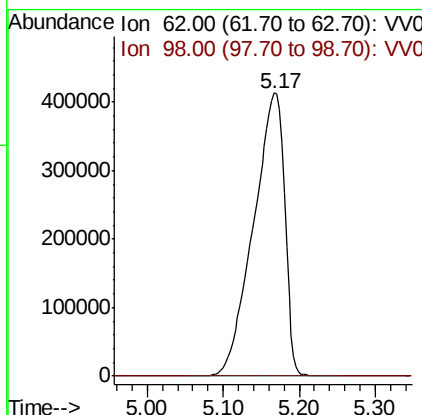
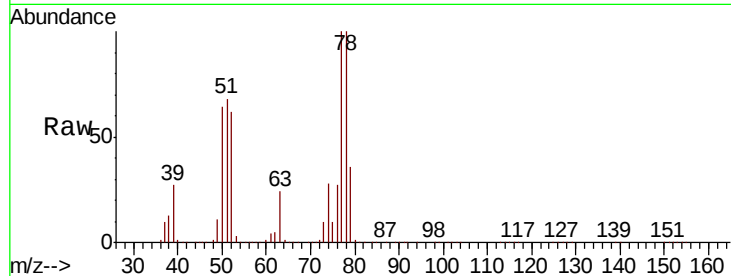




#27
 1,2-Dichloroethane
 Concen: 318.904 ug/L
 RT: 5.17 min Scan# 1268
 Delta R.T. 0.01 min
 Lab File: VV014952.D
 Acq: 16 Mar 2020 17:43

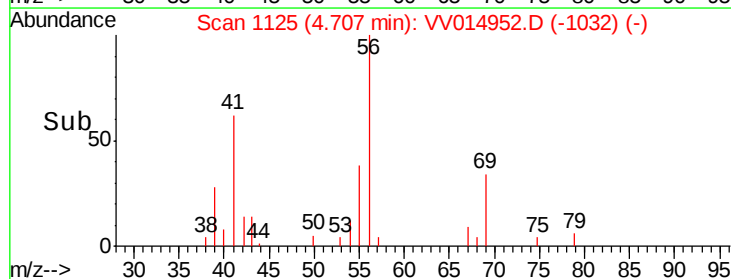
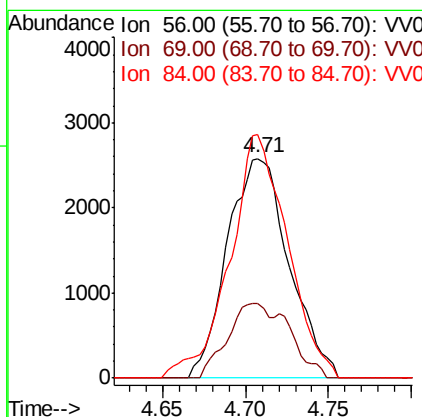
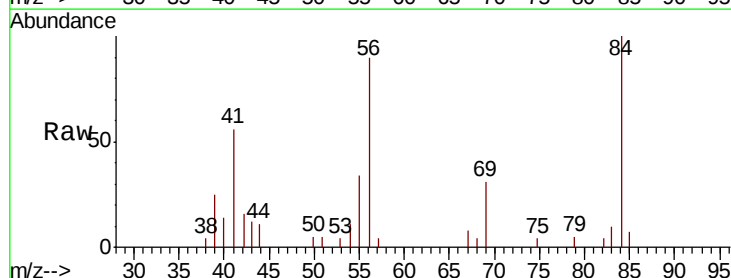
Instrument :
 MSVOA_V
 ClientSampleId :
 C0DH4

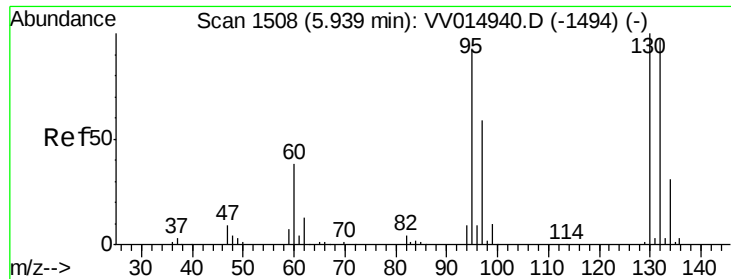
Tot Ion: 62 Resp: 1177040
 Ion Ratio Lower Upper
 62 100
 98 0.1 7.4 11.0#



#29
 Cyclohexane
 Concen: 1.695 ug/L
 RT: 4.71 min Scan# 1125
 Delta R.T. -0.00 min
 Lab File: VV014952.D
 Acq: 16 Mar 2020 17:43

Tgt Ion: 56 Resp: 6671
 Ion Ratio Lower Upper
 56 100
 69 22.1 25.2 37.8#
 84 103.3 76.4 114.6

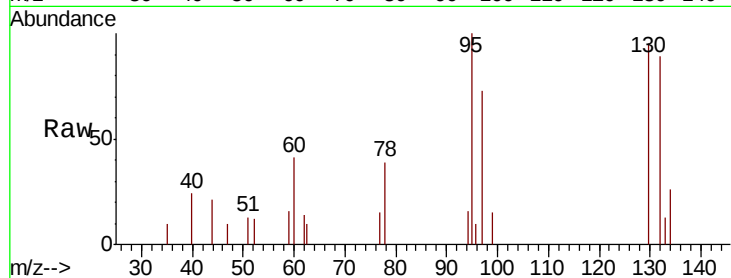




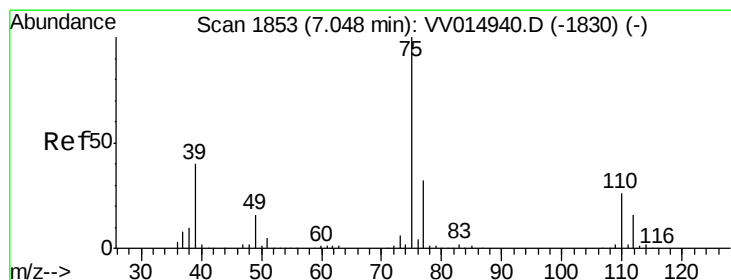
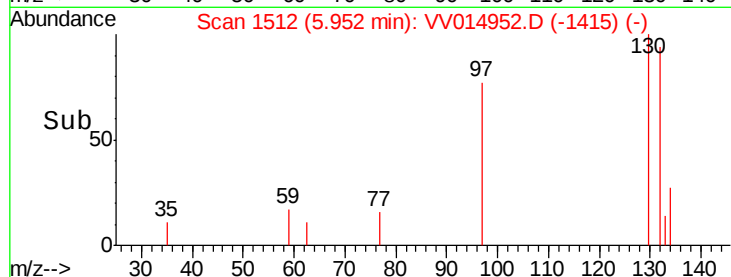
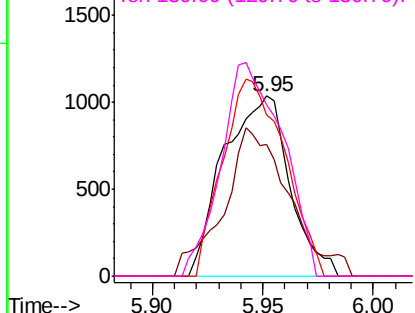
#34
 Trichloroethene
 Concen: 0.775 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. 0.01 min
 Lab File: VV014952.D
 Acq: 16 Mar 2020 17:43

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DH4

Tot Ion: 95 Resp: 2156
 Ion Ratio Lower Upper
 95 100
 97 72.8 44.4 82.4
 132 89.5 72.4 134.4
 130 94.9 74.1 137.5

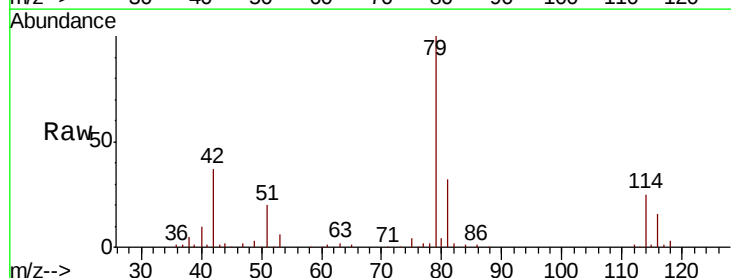


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

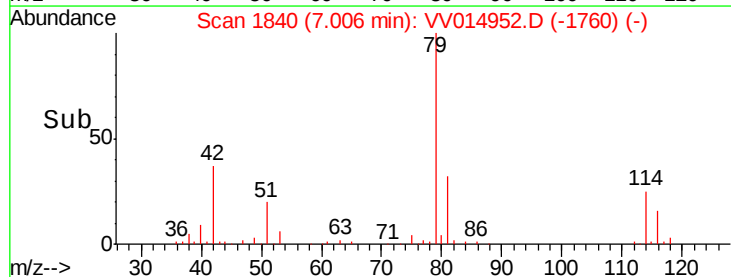
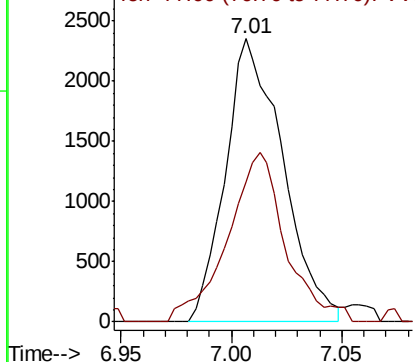


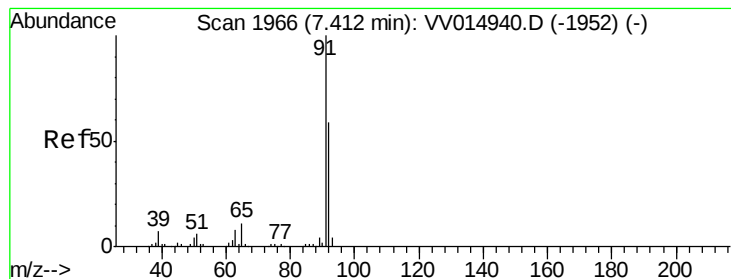
#39
 cis-1,3-Dichloropropene
 Concen: 0.995 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV014952.D
 Acq: 16 Mar 2020 17:43

Tgt Ion: 75 Resp: 4251
 Ion Ratio Lower Upper
 75 100
 77 49.4 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VV0
 Ion 77.00 (76.70 to 77.70): VV0





#42

Toluene

Concen: 1.059 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.00 min

Lab File: VV014952.D

Acq: 16 Mar 2020 17:43

Instrument :

MSVOA_V

ClientSampleId :

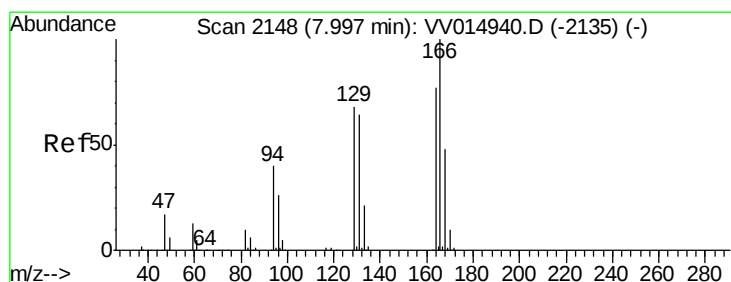
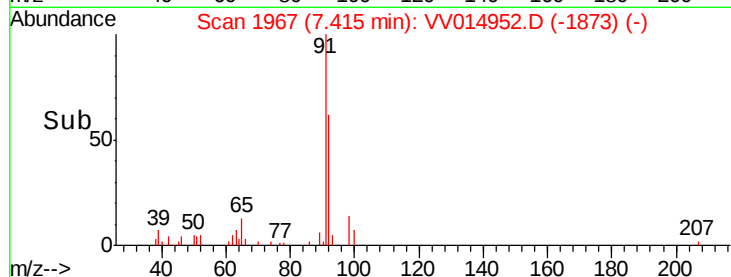
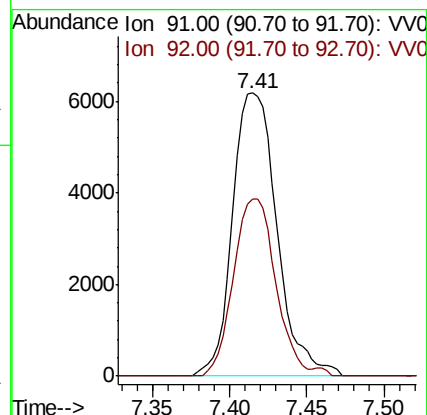
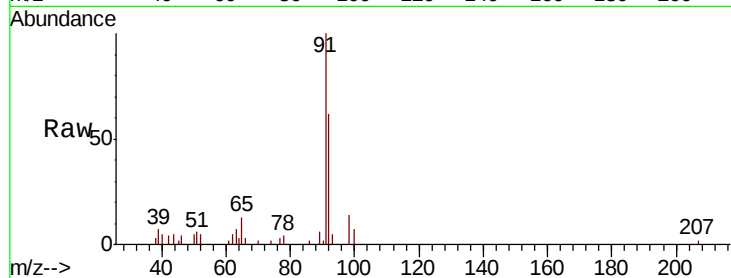
C0DH4

Tot Ion: 91 Resp: 12353

Ion Ratio Lower Upper

91 100

92 62.4 41.4 76.8



#46

Tetrachloroethene

Concen: 0.518 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV014952.D

Acq: 16 Mar 2020 17:43

Tgt Ion: 164 Resp: 1347

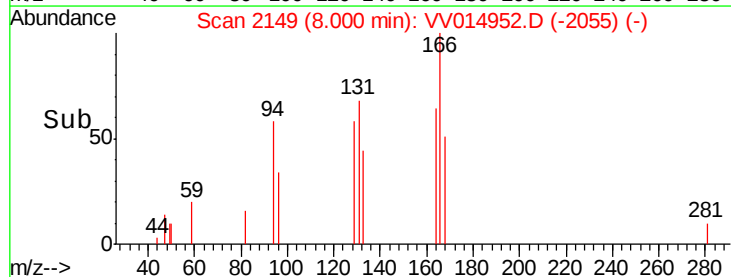
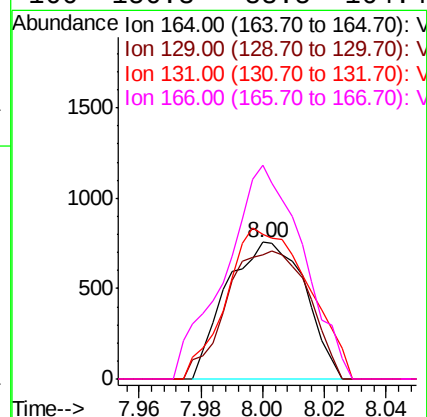
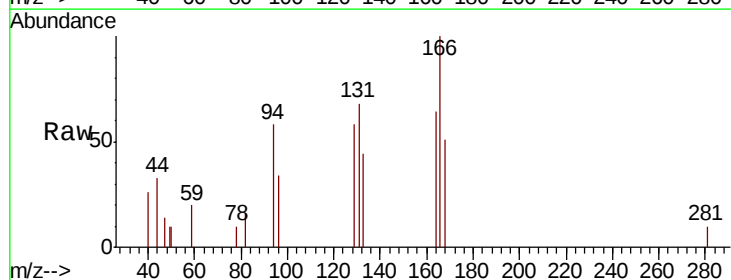
Ion Ratio Lower Upper

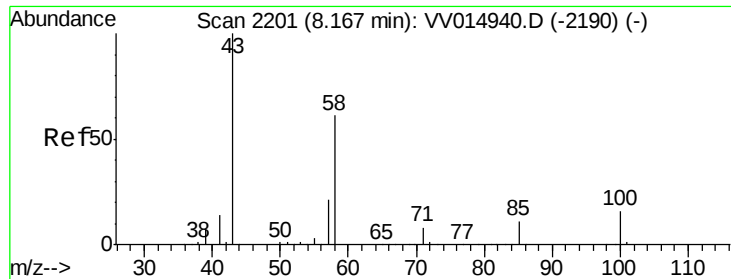
164 100

129 91.0 62.0 115.2

131 105.8 59.5 110.5

166 156.3 88.5 164.4

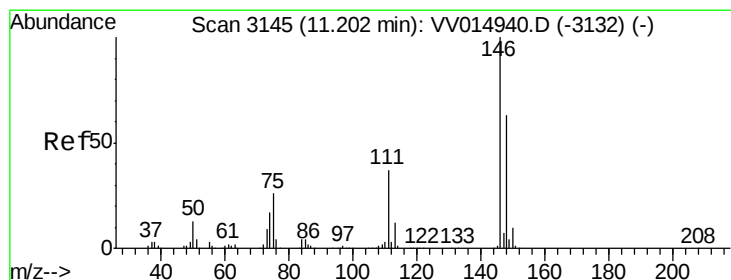
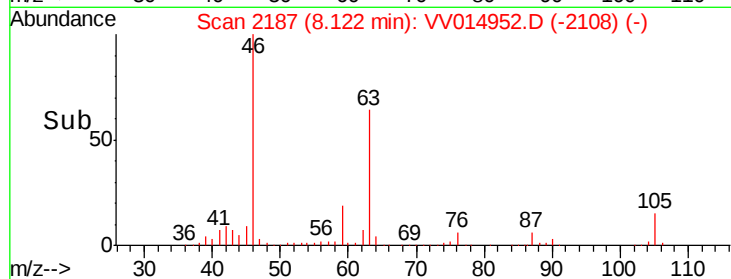
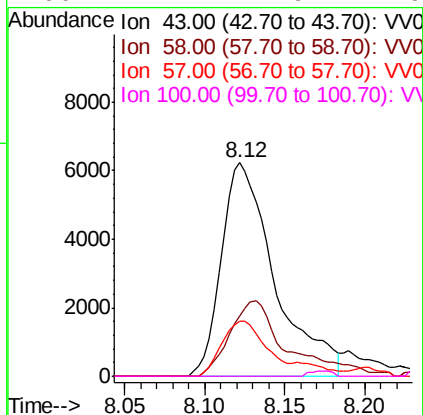
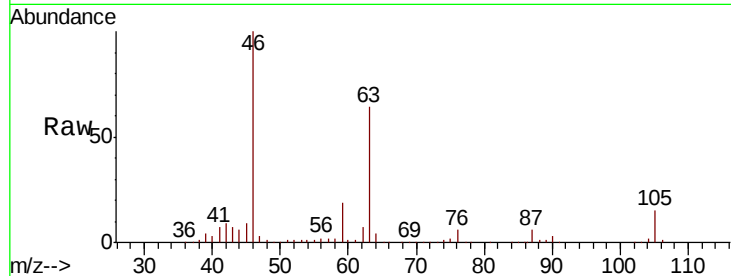




#48
2-Hexanone
Concen: 5.149 ug/L
RT: 8.12 min Scan# 2187
Delta R.T. -0.05 min
Lab File: VV014952.D
Acq: 16 Mar 2020 17:43

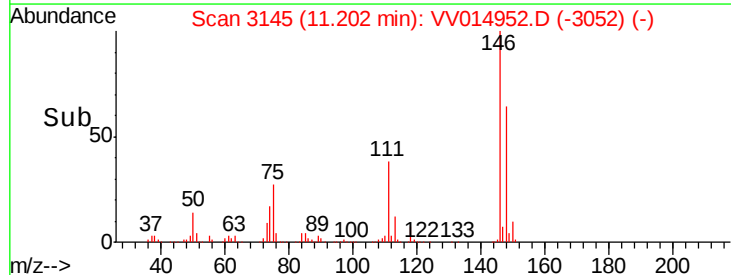
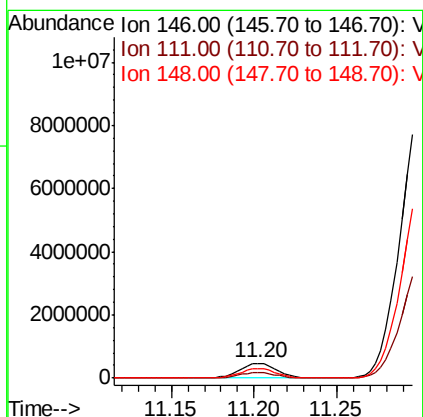
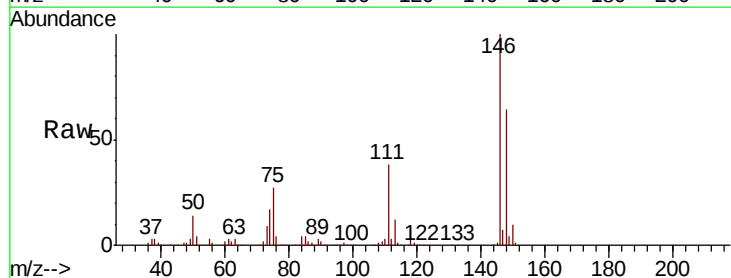
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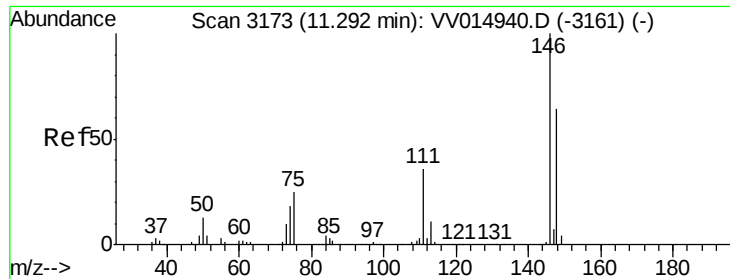
Tot Ion: 43 Resp: 14296
Ion Ratio Lower Upper
43 100
58 37.5 46.9 70.3#
57 21.1 16.2 24.4
100 1.1 11.9 17.9#



#62
1,3-Dichlorobenzene
Concen: 100.129 ug/L
RT: 11.20 min Scan# 3145
Delta R.T. -0.00 min
Lab File: VV014952.D
Acq: 16 Mar 2020 17:43

Tgt Ion: 146 Resp: 717413
Ion Ratio Lower Upper
146 100
111 37.7 26.5 49.3
148 63.6 45.4 84.2





#63

1,4-Dichlorobenzene

Concen: 2010.884 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VV014952.D

Acq: 16 Mar 2020 17:43

Instrument :

MSVOA_V

ClientSampleId :

C0DH4

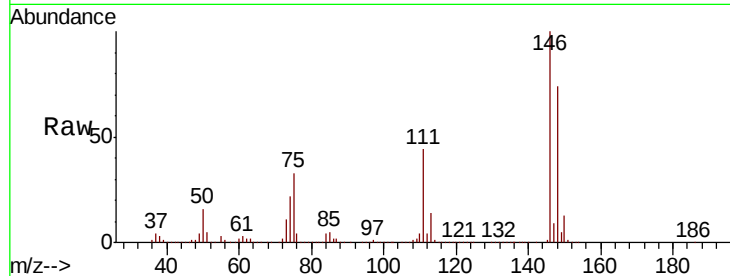
Tot Ion:146 Resp:14513349

Ion Ratio Lower Upper

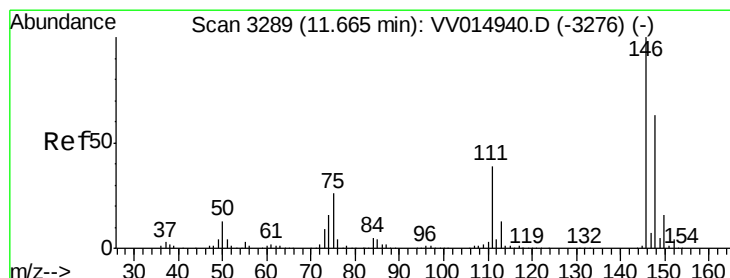
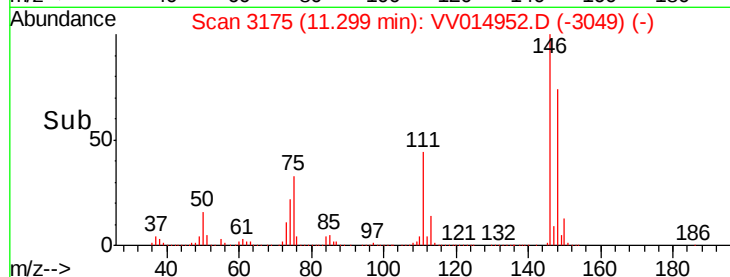
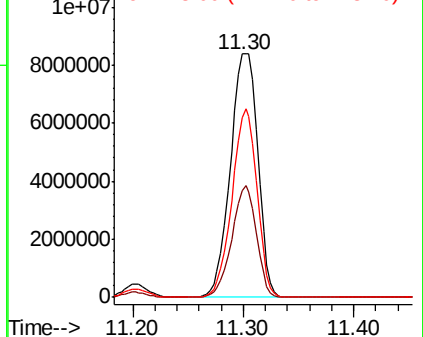
146 100

111 44.0 26.0 48.2

148 73.5 46.1 85.5



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



#65

1,2-Dichlorobenzene

Concen: 1070.831 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV014952.D

Acq: 16 Mar 2020 17:43

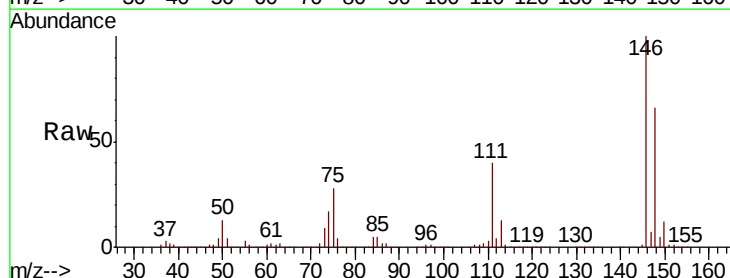
Tgt Ion:146 Resp: 7663995

Ion Ratio Lower Upper

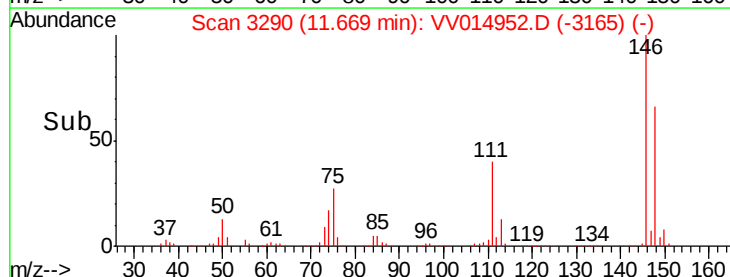
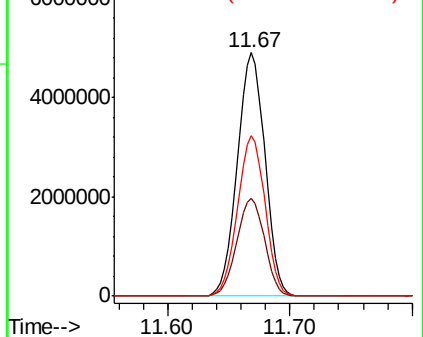
146 100

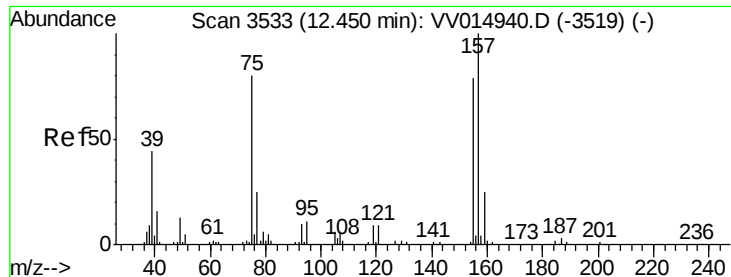
111 40.3 31.6 47.4

148 66.1 52.2 78.4



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

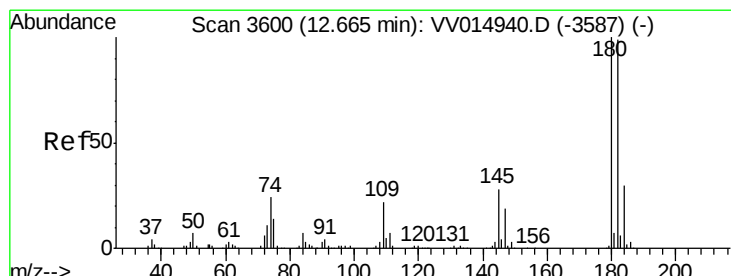
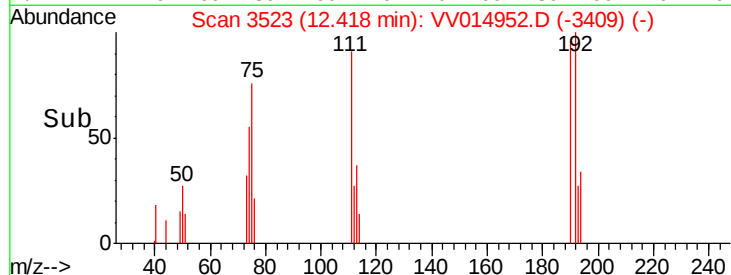
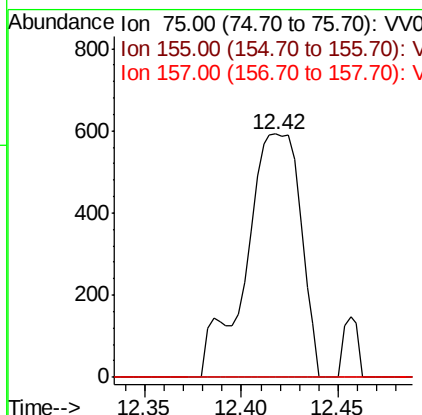
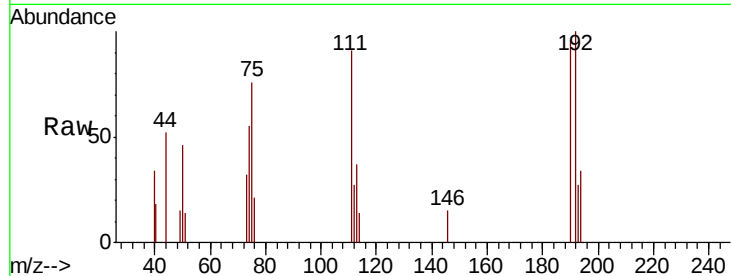




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.090 ug/L
 RT: 12.42 min Scan# 3523
 Delta R.T. -0.03 min
 Lab File: VV014952.D
 Acq: 16 Mar 2020 17:43

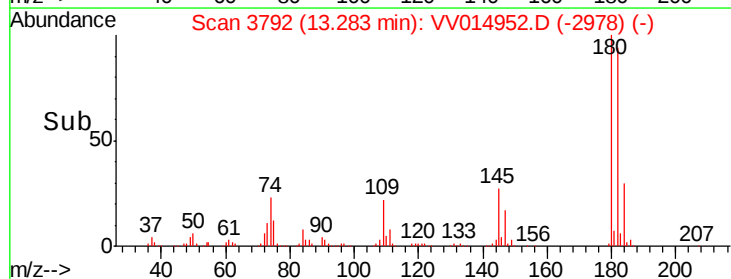
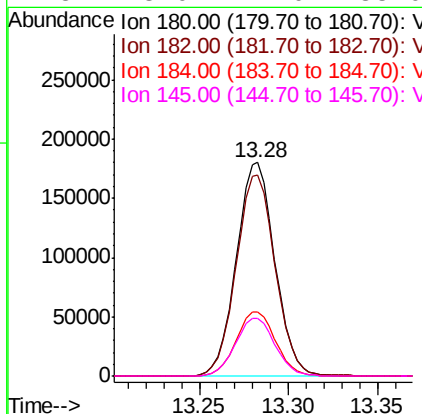
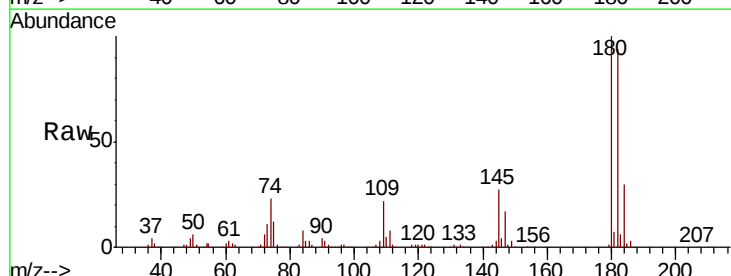
Instrument :
 MSVOA_V
 ClientSampleId :
 C0DH4

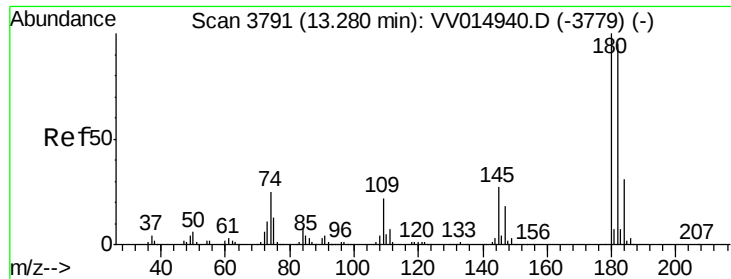
Tot Ion: 75 Resp: 1173
 Ion Ratio Lower Upper
 75 100
 155 0.0 77.7 116.5#
 157 0.0 97.2 145.8#



#67
 1,3,5-Trichlorobenzene
 Concen: 48.361 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.62 min
 Lab File: VV014952.D
 Acq: 16 Mar 2020 17:43

Tgt Ion: 180 Resp: 271666
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.7 113.5
 184 30.9 24.2 36.4
 145 28.0 22.0 33.0

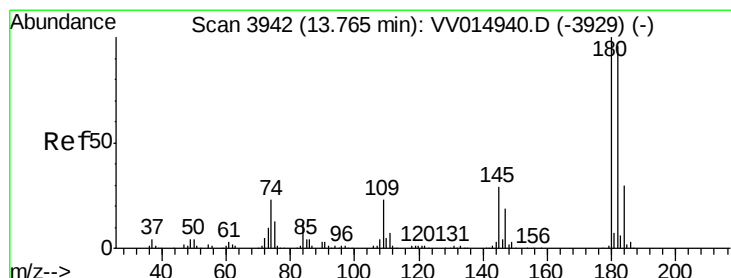
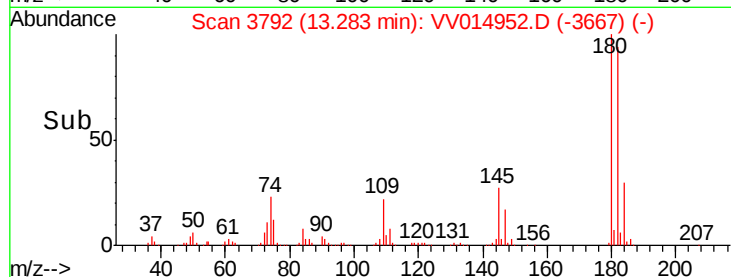
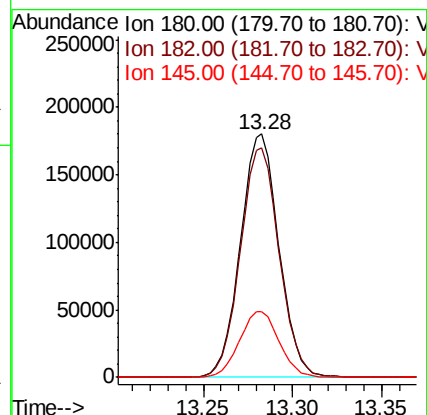
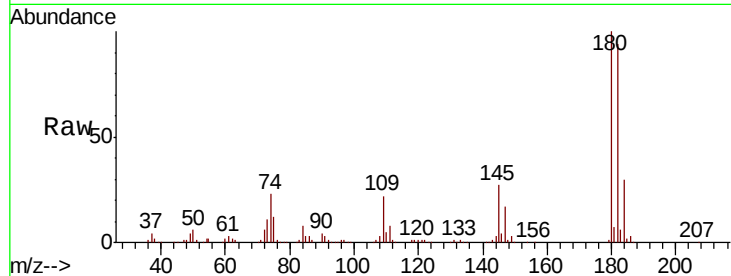




#68
1,2,4-trichlorobenzene
Concen: 54.258 ug/L
RT: 13.28 min Scan# 3792
Delta R.T. 0.00 min
Lab File: VV014952.D
Acq: 16 Mar 2020 17:43

Instrument :
MSVOA_V
ClientSampleId :
C0DH4

Tot Ion:180 Resp: 271666
Ion Ratio Lower Upper
180 100
182 95.5 76.3 114.5
145 28.0 23.1 34.7



#70
1,2,3-Trichlorobenzene
Concen: 4.312 ug/L
RT: 13.76 min Scan# 3942
Delta R.T. -0.00 min
Lab File: VV014952.D
Acq: 16 Mar 2020 17:43

Tgt Ion:180 Resp: 21372
Ion Ratio Lower Upper
180 100
182 91.8 76.2 114.4
145 30.8 24.1 36.1

