

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
 Data File : VV014953.D
 Acq On : 16 Mar 2020 18:07
 Operator : SY/MD
 Sample : L1890-18
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DH5

Quant Time: Mar 18 03:21:17 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	5.65	114	399071	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.94	117	416154	50.00	ug/L	0.06
60) 1,4-Dichlorobenzene-d4	11.30	152	274385	50.00	ug/L	0.03

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	131492	49.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.92%
7) Chloroethane-d5	1.58	69	90306	45.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.46%
11) 1,1-Dichloroethene-d2	2.12	63	136123	33.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.74%
21) 2-Butanone-d5	3.93	46	117823	72.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	72.68%
24) Chloroform-d	4.38	84	235320	42.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.96%
26) 1,2-Dichloroethane-d4	5.07	65	64156	18.28	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	36.56%#
32) Benzene-d6	5.11	84	469313	40.94	ug/L	0.04
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.88%
36) 1,2-Dichloropropane-d6	6.10	67	141650	41.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	82.98%
41) Toluene-d8	7.34	98	478098	42.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.34%
43) trans-1,3-Dichloropropene-	7.65	79	70161	38.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.32%
47) 2-Hexanone-d5	8.13	63	129746	84.20	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.20%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	215683	43.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.30%
64) 1,2-Dichlorobenzene-d4	11.67	152	252956	42.08	ug/L	0.03
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.16%

Target Compounds

					Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1385	0.674 ug/L #	15
12) 1,1-Dichloroethene	2.12	96	1359	0.725 ug/L #	1
14) Carbon disulfide	2.31	76	7540	1.225 ug/L #	92
16) Methylene chloride	2.52	84	9456	3.333 ug/L	84
20) cis-1,2-Dichloroethene	3.94	96	9239	3.081 ug/L	92
25) Chloroform	4.41	83	56670	10.846 ug/L	94
27) 1,2-Dichloroethane	5.21	62	2800950	711.360 ug/L #	75
29) Cyclohexane	4.70	56	30214	7.029 ug/L	97
34) Trichloroethene	5.94	95	8417	2.770 ug/L	98
35) Methylcyclohexane	6.16	83	6205	1.266 ug/L #	73
42) Toluene	7.41	91	51141	4.014 ug/L	97
46) Tetrachloroethene	8.00	164	10872	3.830 ug/L	92
49) Dibromochloromethane	8.00	129	9726	2.926 ug/L #	9
62) 1,3-Dichlorobenzene	11.21	146	4448085	491.936 ug/L	100
63) 1,4-Dichlorobenzene	11.21	146	4448085	488.355 ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.42	75	11792	8.685 ug/L #	1
67) 1,3,5-Trichlorobenzene	13.29	180	4629826	653.076 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
Data File : VV014953.D
Acq On : 16 Mar 2020 18:07
Operator : SY/MD
Sample : L1890-18
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0DH5

Quant Time: Mar 18 03:21:17 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

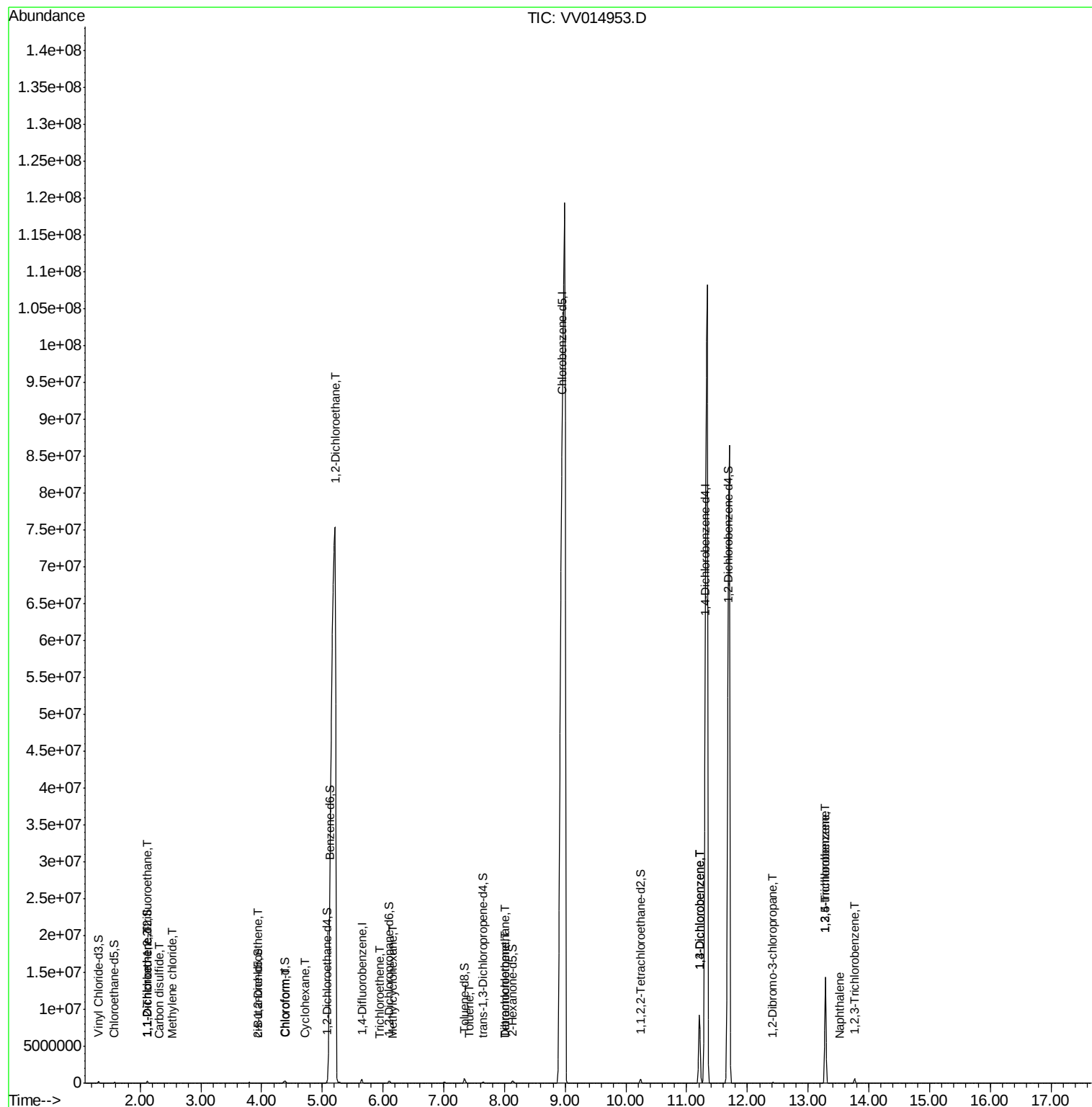
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.29	180	4629826	732.715	ug/L	99
69) Naphthalene	13.53	128	12224	1.506	ug/L	96
70) 1,2,3-Trichlorobenzene	13.77	180	205204	32.807	ug/L	99

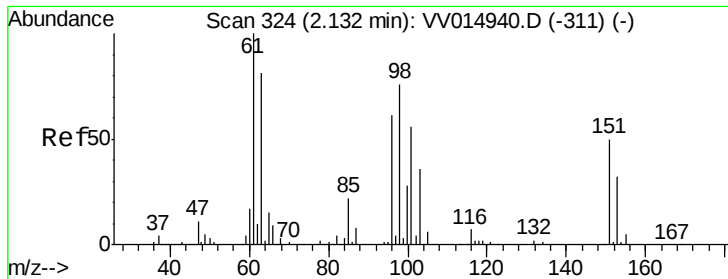
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\
Data File : VV014953.D
Acq On : 16 Mar 2020 18:07
Operator : SY/MD
Sample : L1890-18
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0DH5

Quant Time: Mar 18 03:21:17 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





#10

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

Concen: 0.674 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampleId :

C0DH5

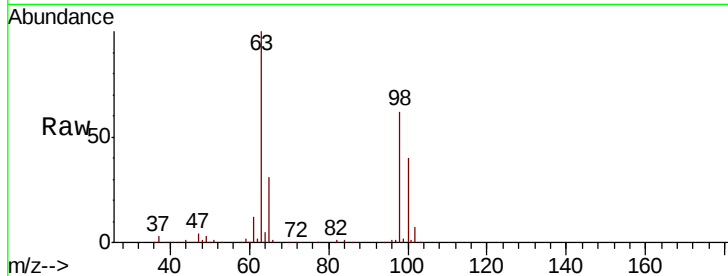
Tot Ion:101 Resp: 1385

Ion Ratio Lower Upper

101 100

85 0.0 33.9 50.9#

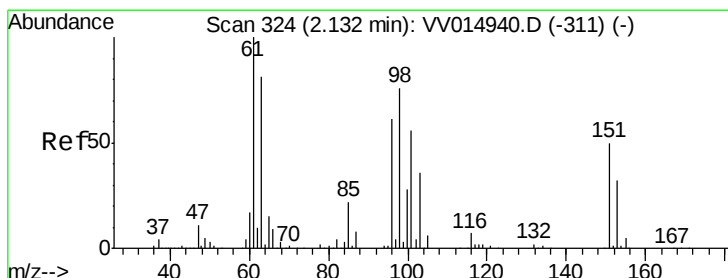
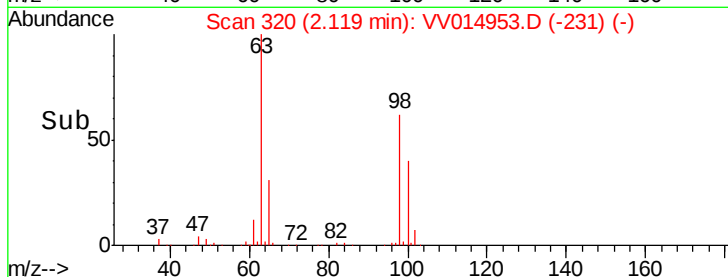
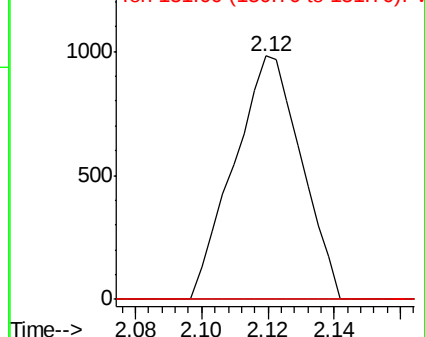
151 0.0 70.1 105.1#



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



#12

1,1-Dichloroethene

Concen: 0.725 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

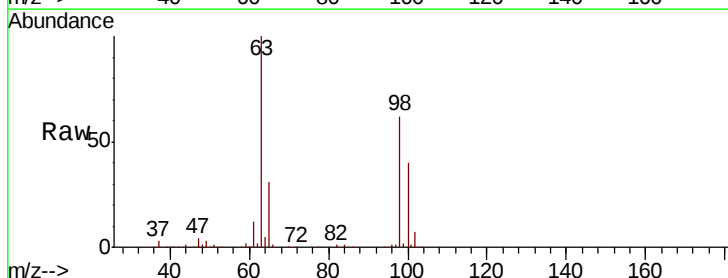
Tgt Ion: 96 Resp: 1359

Ion Ratio Lower Upper

96 100

61 1354.5 115.7 214.9#

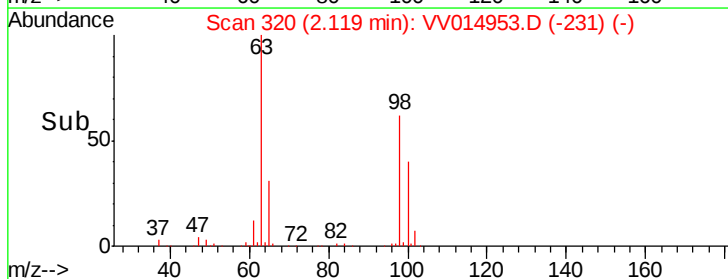
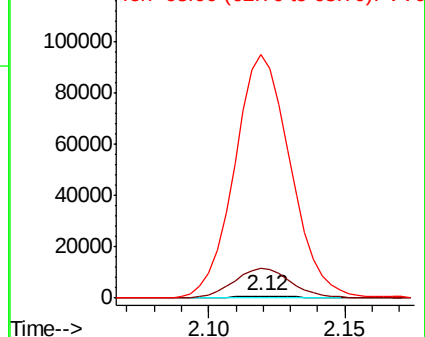
63 11187.7 99.2 184.2#

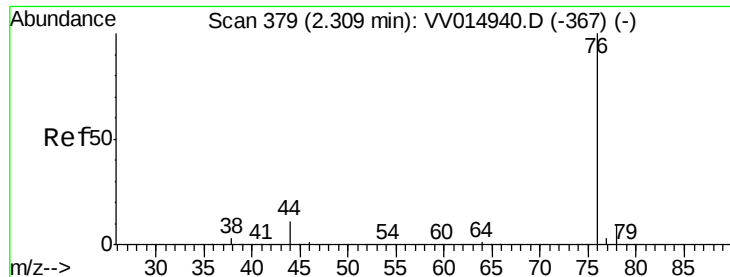


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 1.225 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampled :

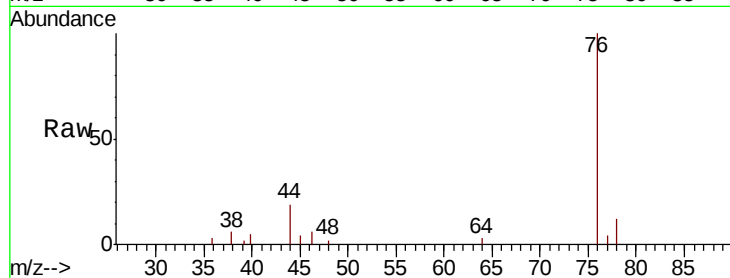
C0DH5

Tot Ion: 76 Resp: 7540

Ion Ratio Lower Upper

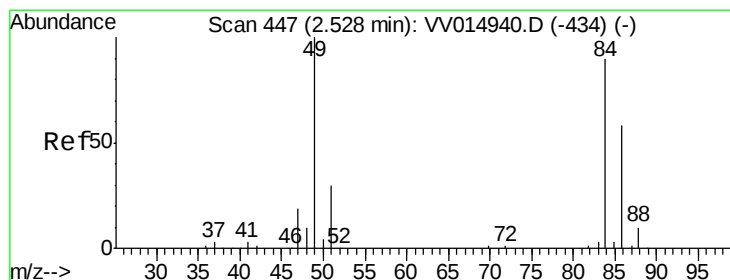
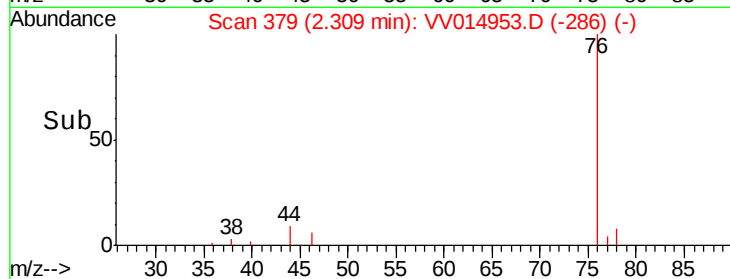
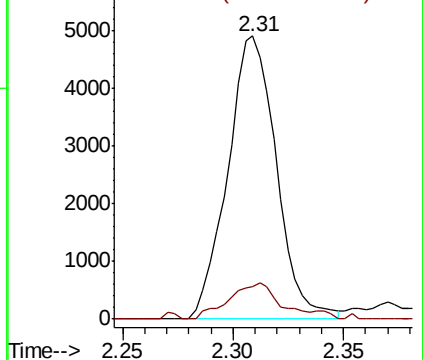
76 100

78 11.7 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 3.333 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

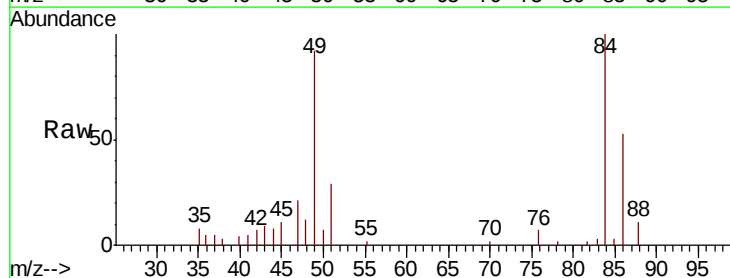
Tgt Ion: 84 Resp: 9456

Ion Ratio Lower Upper

84 100

86 52.8 44.6 82.8

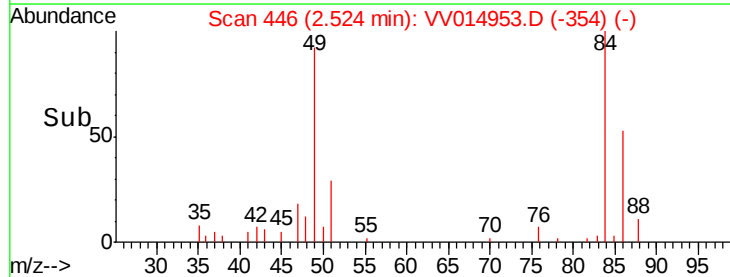
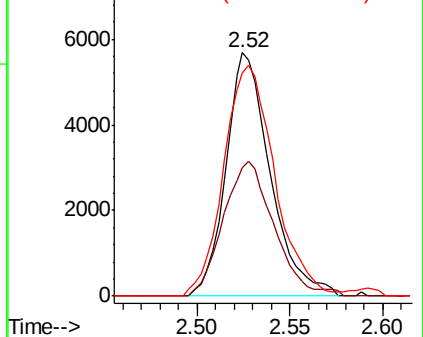
49 91.6 76.9 142.9

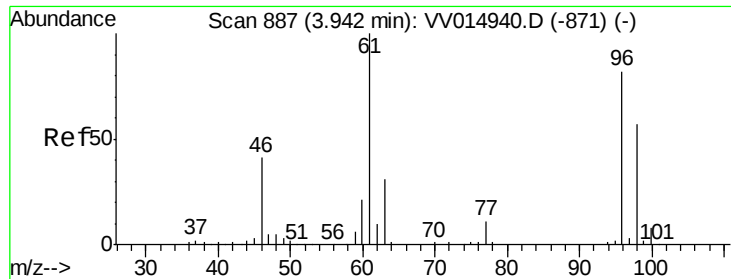


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

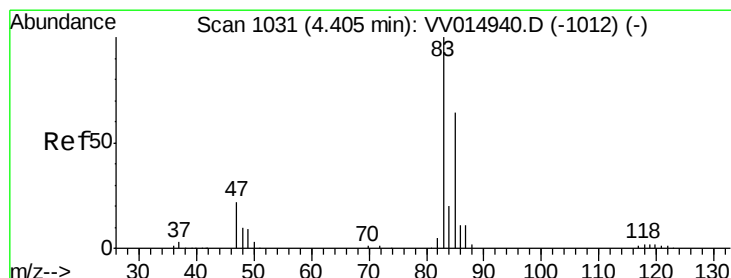
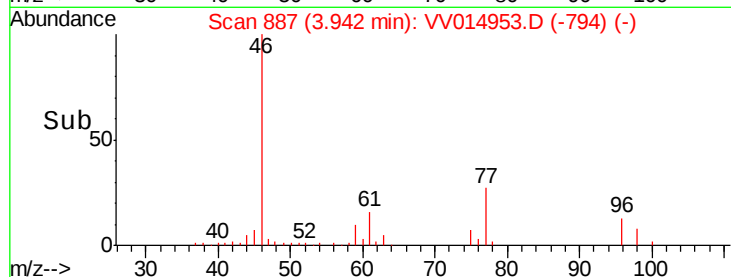
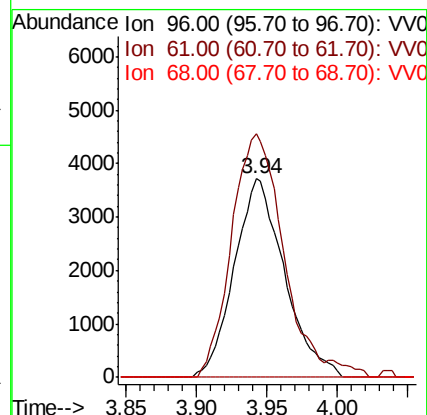
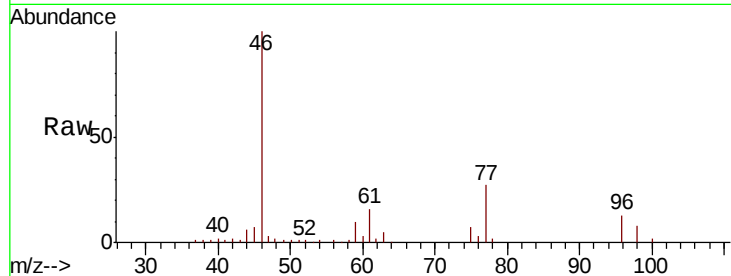




#20
 cis-1,2-Dichloroethene
 Concen: 3.081 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. -0.00 min
 Lab File: VV014953.D
 Acq: 16 Mar 2020 18:07

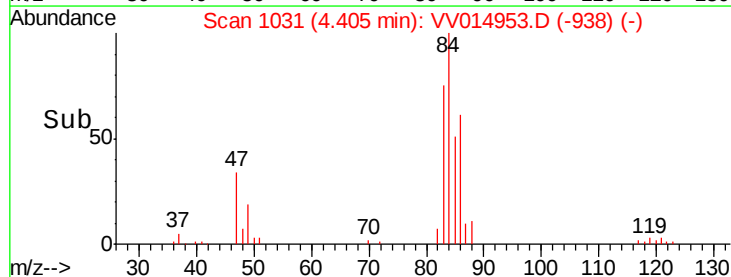
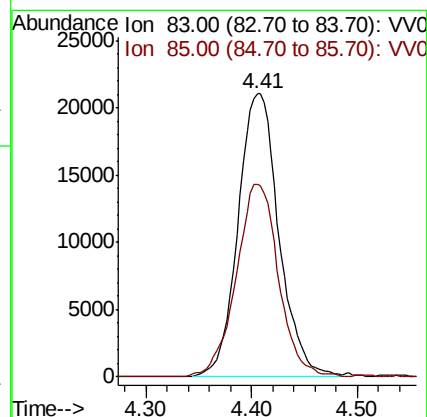
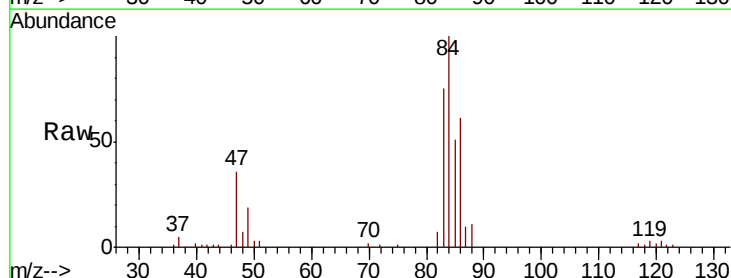
Instrument :
 MSVOA_V
 ClientSampleID :
 C0DH5

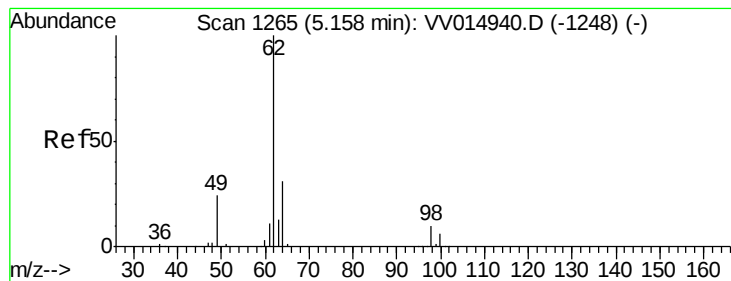
Tot Ion: 96 Resp: 9239
 Ion Ratio Lower Upper
 96 100
 61 122.8 80.2 149.0
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 10.846 ug/L
 RT: 4.41 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VV014953.D
 Acq: 16 Mar 2020 18:07

Tgt Ion: 83 Resp: 56670
 Ion Ratio Lower Upper
 83 100
 85 68.2 44.6 82.8





#27

1,2-Dichloroethane

Concen: 711.360 ug/L

RT: 5.21 min Scan# 1280

Delta R.T. 0.05 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampleId :

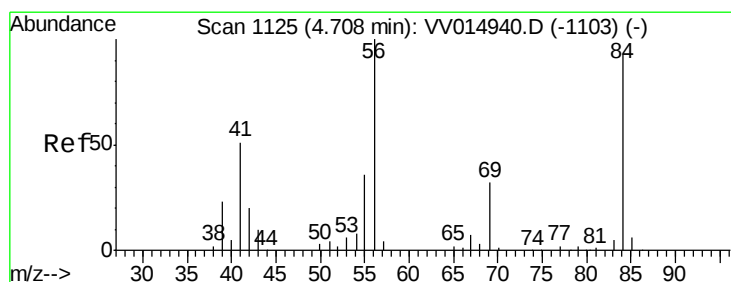
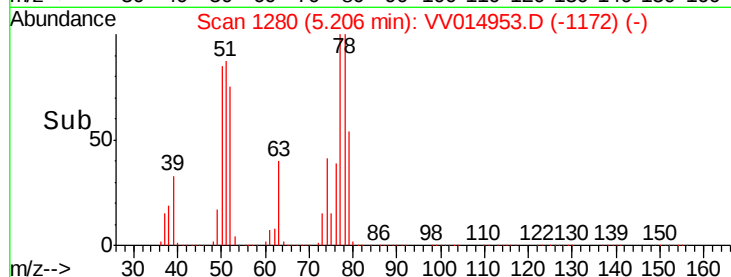
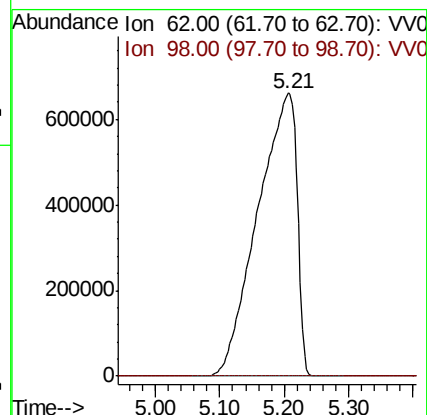
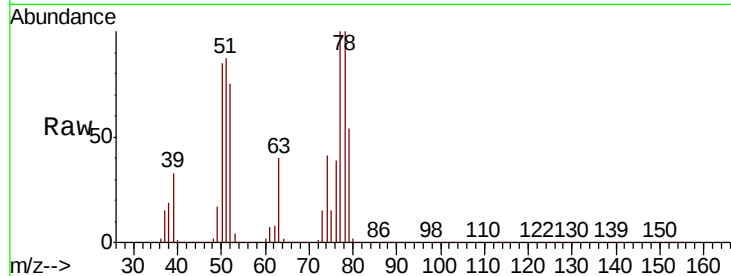
C0DH5

Tot Ion: 62 Resp: 2800950

Ion Ratio Lower Upper

62 100

98 0.1 7.4 11.0#



#29

Cyclohexane

Concen: 7.029 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

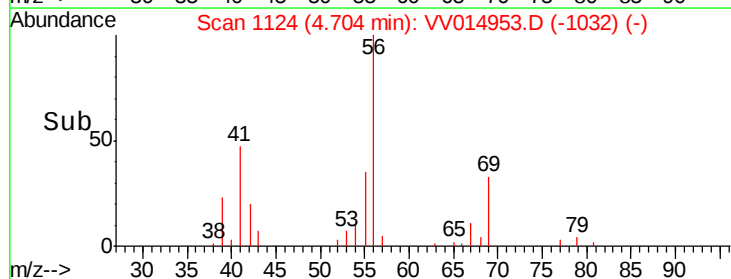
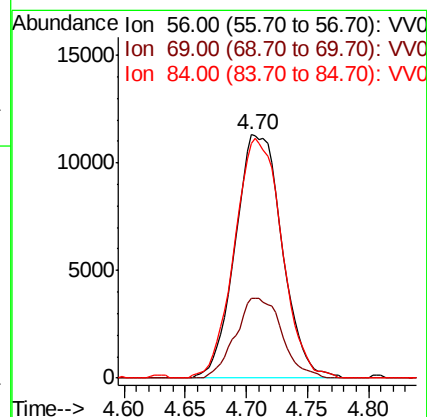
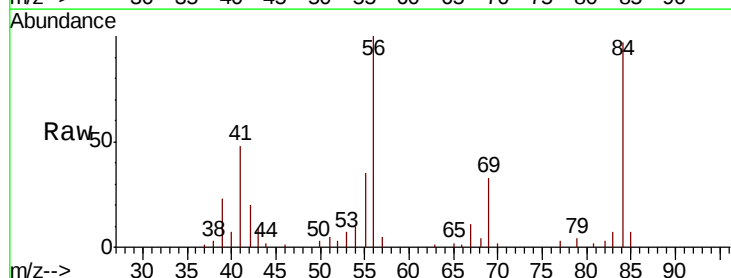
Tgt Ion: 56 Resp: 30214

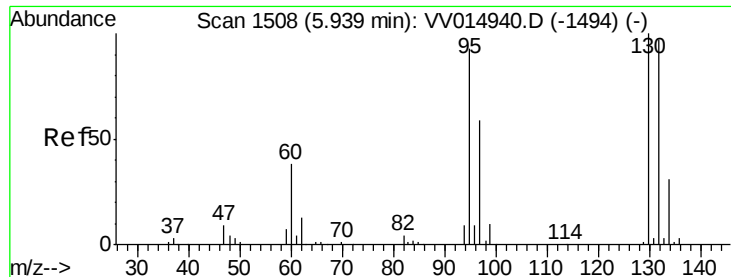
Ion Ratio Lower Upper

56 100

69 32.5 25.2 37.8

84 99.1 76.4 114.6





#34

Trichloroethene

Concen: 2.770 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampleId :

C0DH5

Tot Ion: 95 Resp: 8417

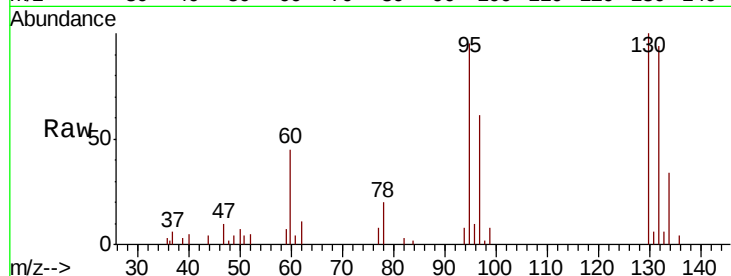
Ion Ratio Lower Upper

95 100

97 63.9 44.4 82.4

132 99.1 72.4 134.4

130 105.2 74.1 137.5

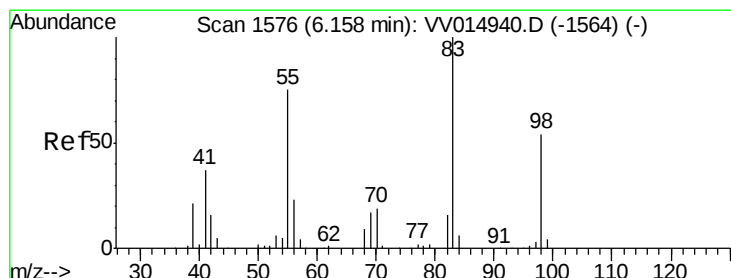
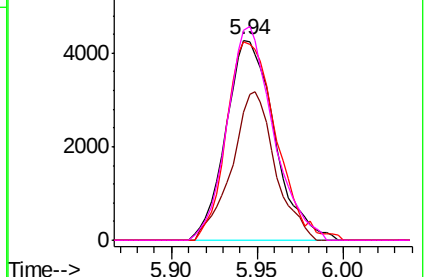
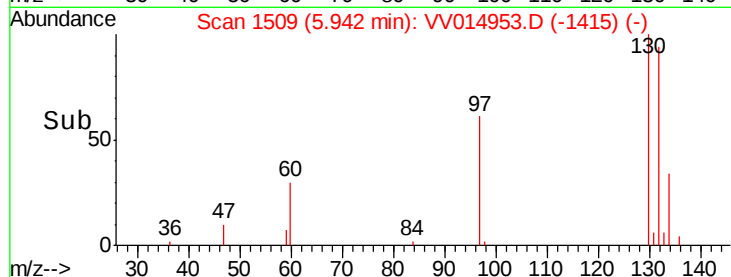


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#35

Methylcyclohexane

Concen: 1.266 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

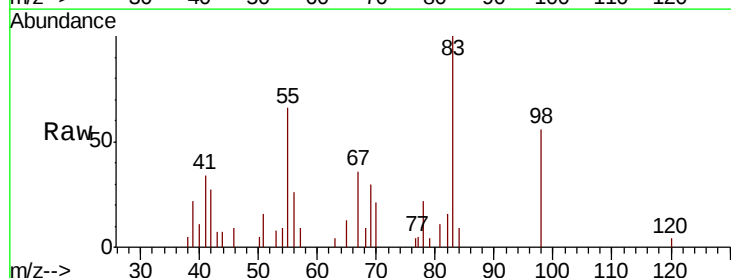
Tgt Ion: 83 Resp: 6205

Ion Ratio Lower Upper

83 100

55 103.6 57.5 86.3#

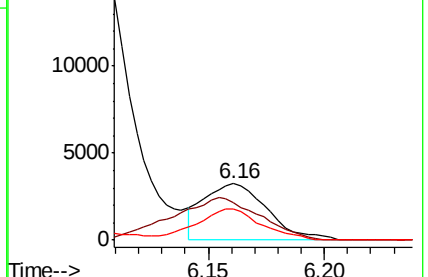
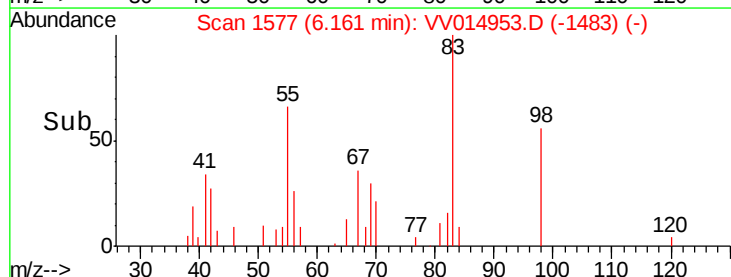
98 56.2 39.5 59.3

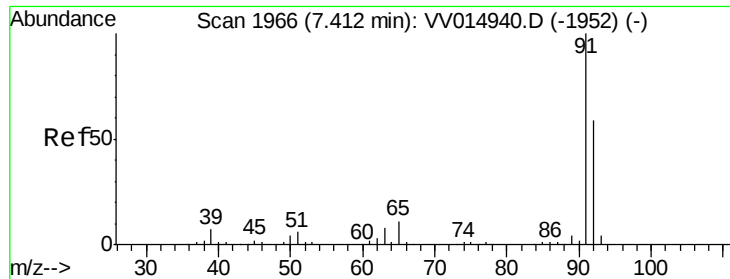


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#42

Toluene

Concen: 4.014 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampleId :

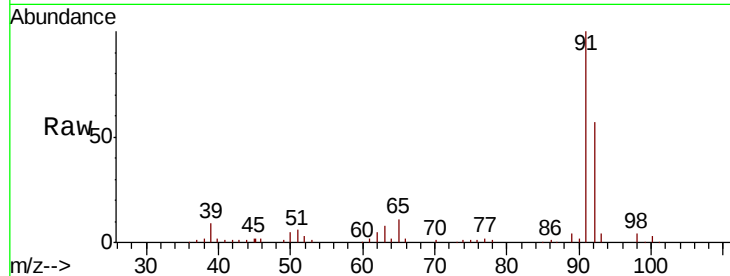
C0DH5

Tot Ion: 91 Resp: 51141

Ion Ratio Lower Upper

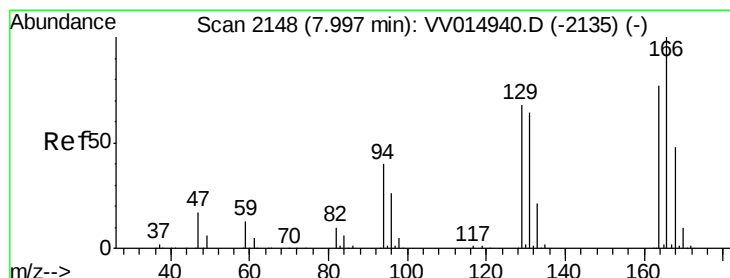
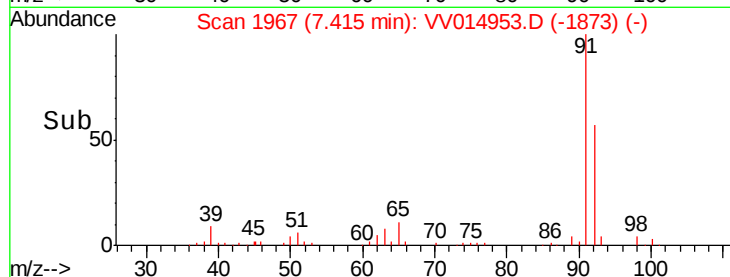
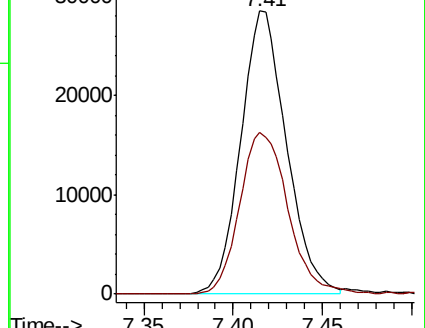
91 100

92 57.1 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV014940.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV014940.D (-1952) (-)



#46

Tetrachloroethene

Concen: 3.830 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Tgt Ion: 164 Resp: 10872

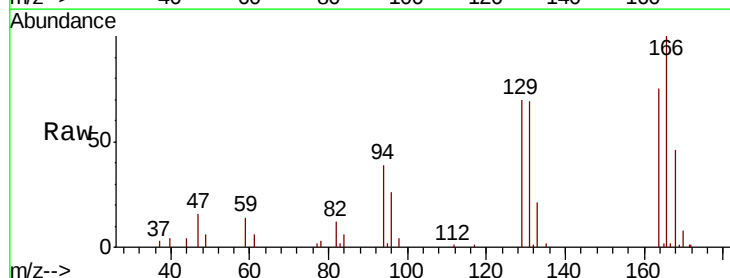
Ion Ratio Lower Upper

164 100

129 94.2 62.0 115.2

131 92.8 59.5 110.5

166 136.0 88.5 164.4

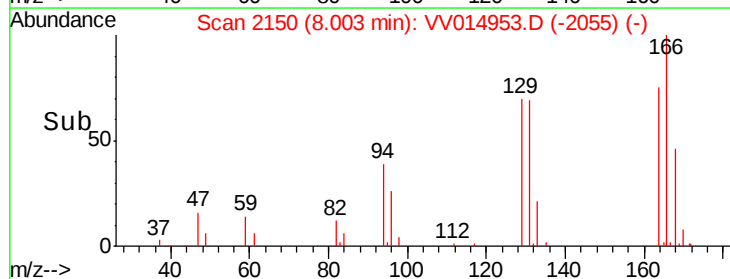
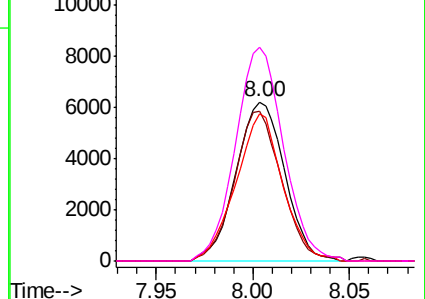


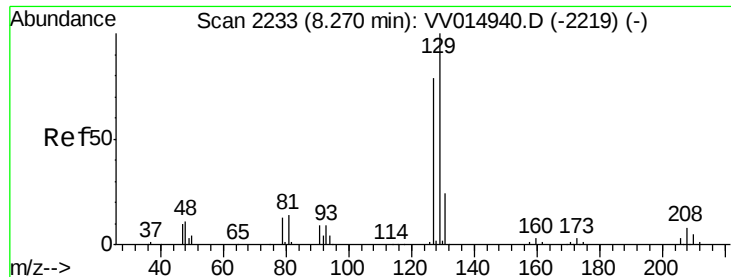
Abundance Ion 164.00 (163.70 to 164.70): VV014940.D (-2135) (-)

Ion 129.00 (128.70 to 129.70): VV014940.D (-2135) (-)

Ion 131.00 (130.70 to 131.70): VV014940.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV014940.D (-2135) (-)





#49

Dibromochloromethane

Concen: 2.926 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. -0.27 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampleId :

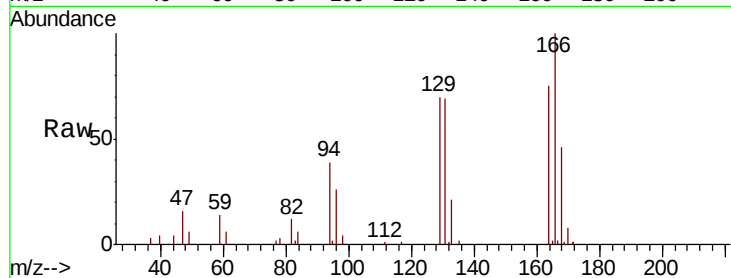
C0DH5

Tot Ion:129 Resp: 9726

Ion Ratio Lower Upper

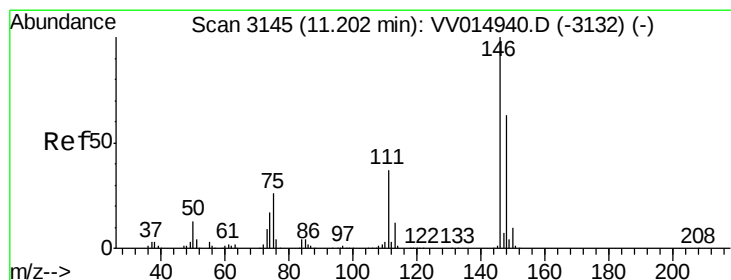
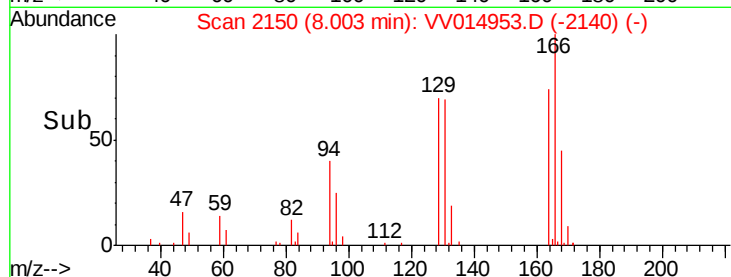
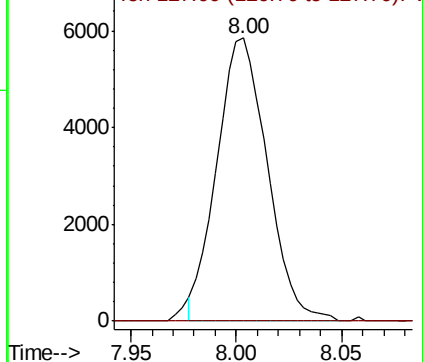
129 100

127 0.0 55.9 103.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#62

1,3-Dichlorobenzene

Concen: 491.936 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. 0.01 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

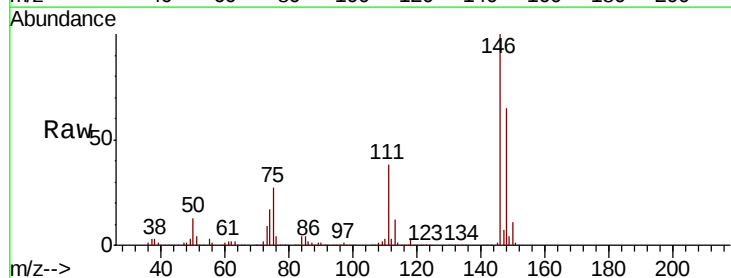
Tgt Ion:146 Resp: 4448085

Ion Ratio Lower Upper

146 100

111 38.0 26.5 49.3

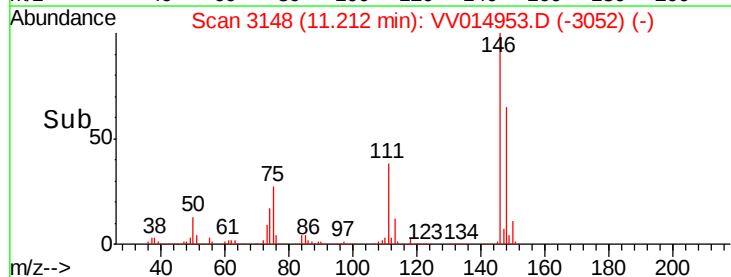
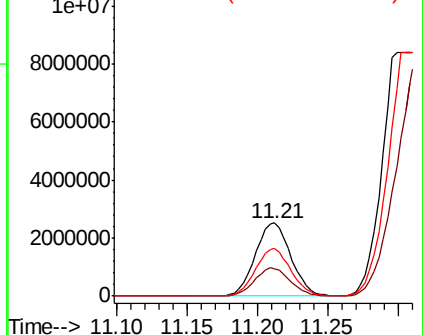
148 65.1 45.4 84.2

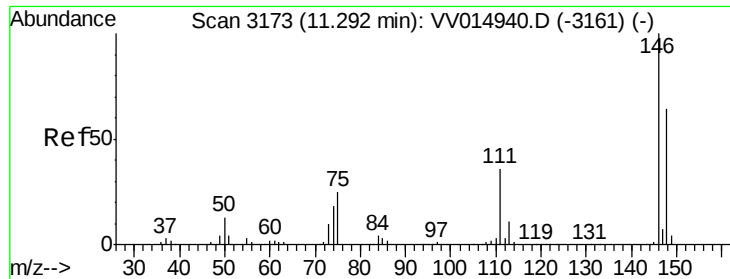


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

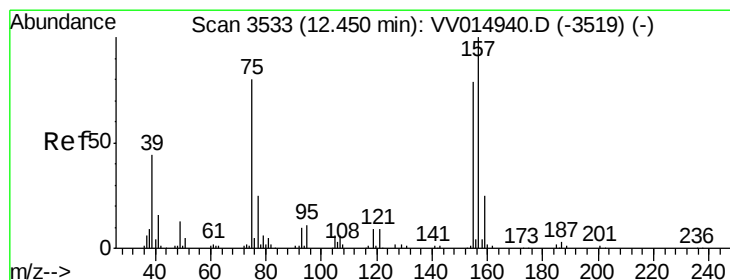
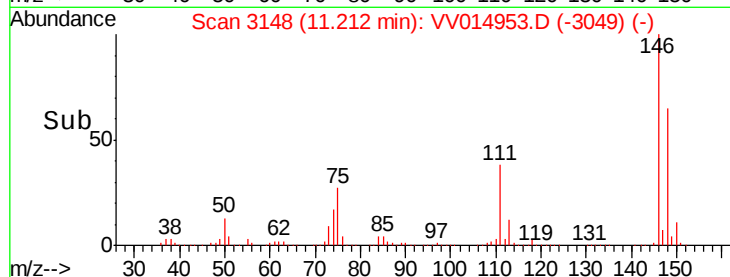
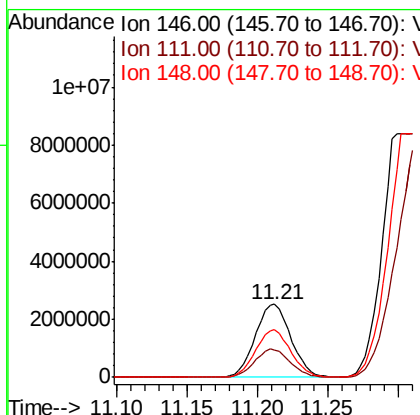
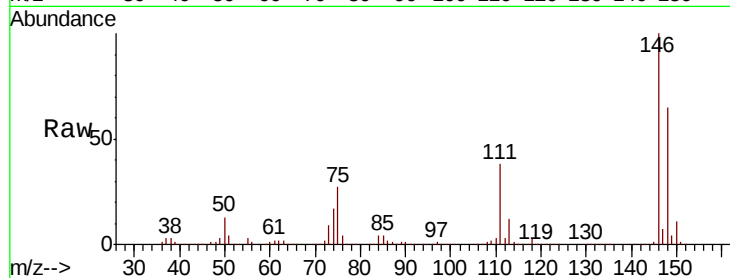




#63
 1,4-Dichlorobenzene
 Concen: 488.355 ug/L
 RT: 11.21 min Scan# 3148
 Delta R.T. -0.08 min
 Lab File: VV014953.D
 Acq: 16 Mar 2020 18:07

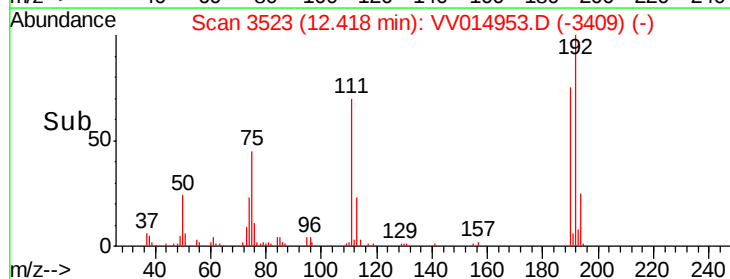
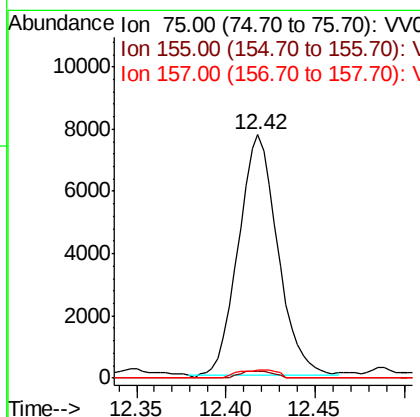
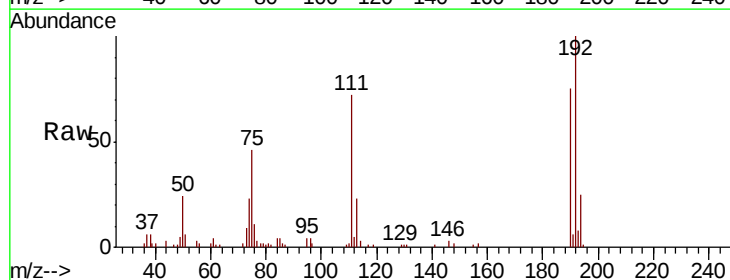
Instrument :
 MSVOA_V
 ClientSampled :
 C0DH5

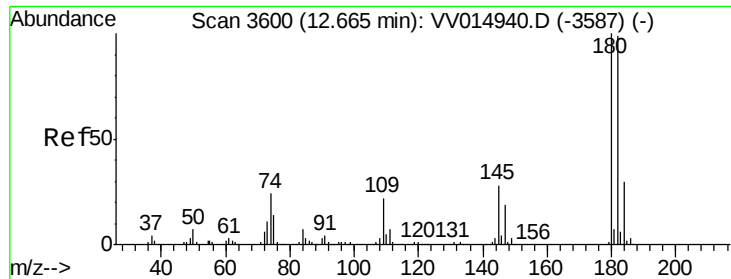
Tot Ion:146 Resp: 4448085
 Ion Ratio Lower Upper
 146 100
 111 38.0 26.0 48.2
 148 65.1 46.1 85.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 8.685 ug/L
 RT: 12.42 min Scan# 3523
 Delta R.T. -0.03 min
 Lab File: VV014953.D
 Acq: 16 Mar 2020 18:07

Tgt Ion: 75 Resp: 11792
 Ion Ratio Lower Upper
 75 100
 155 2.7 77.7 116.5#
 157 3.3 97.2 145.8#

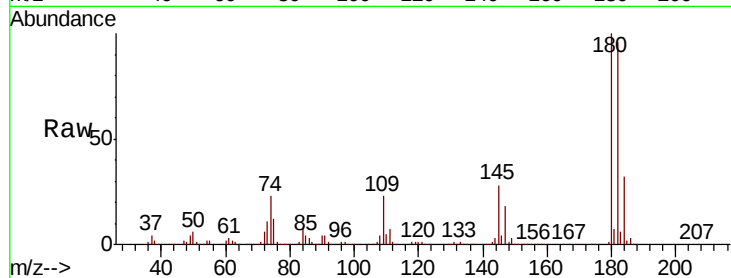




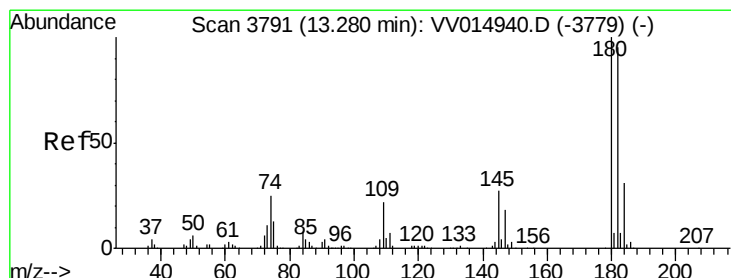
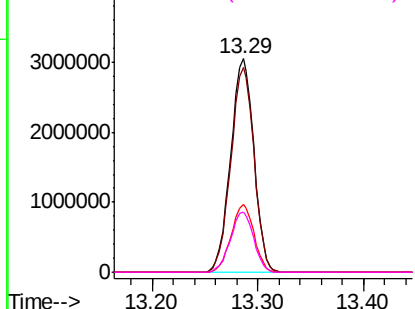
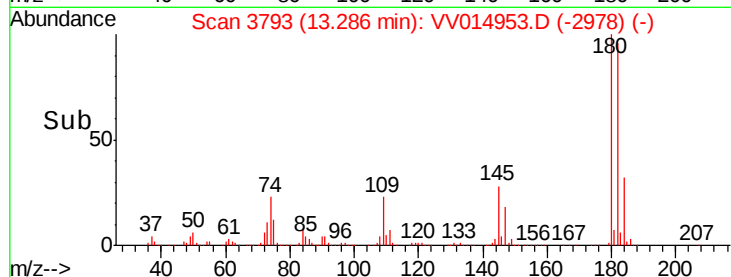
#67
 1,3,5-Trichlorobenzene
 Concen: 653.076 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.62 min
 Lab File: VV014953.D
 Acq: 16 Mar 2020 18:07

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DH5

Tot Ion:180 Resp: 4629826
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.7 113.5
 184 31.2 24.2 36.4
 145 28.3 22.0 33.0

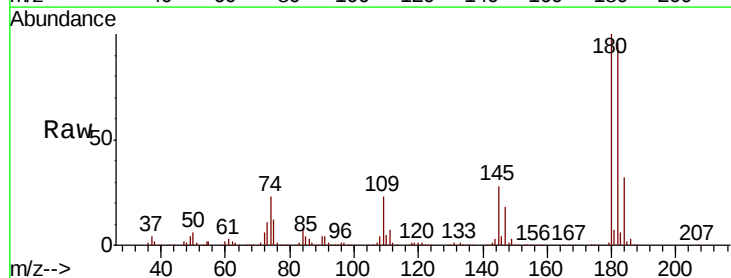


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

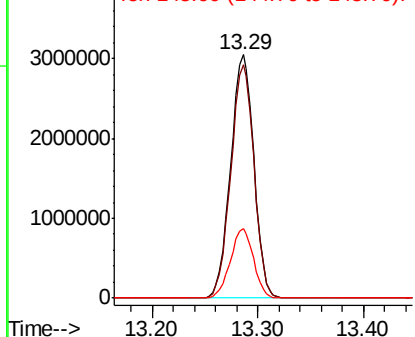
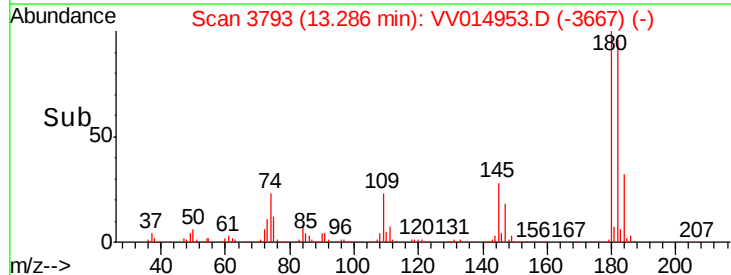


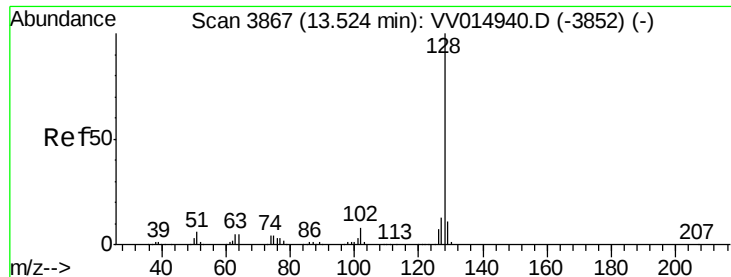
#68
 1,2,4-trichlorobenzene
 Concen: 732.715 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.01 min
 Lab File: VV014953.D
 Acq: 16 Mar 2020 18:07

Tgt Ion:180 Resp: 4629826
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.3 114.5
 145 28.3 23.1 34.7



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: 1.506 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

Instrument :

MSVOA_V

ClientSampled :

C0DH5

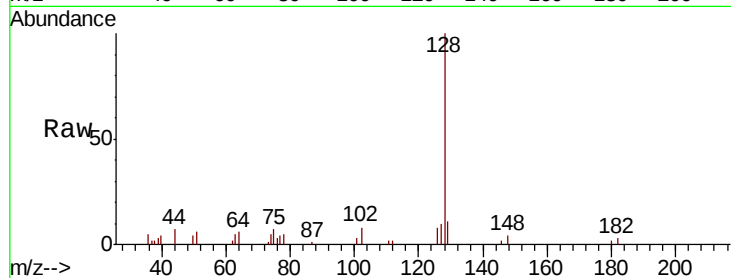
Tot Ion:128 Resp: 12224

Ion Ratio Lower Upper

128 100

127 10.3 10.2 15.4

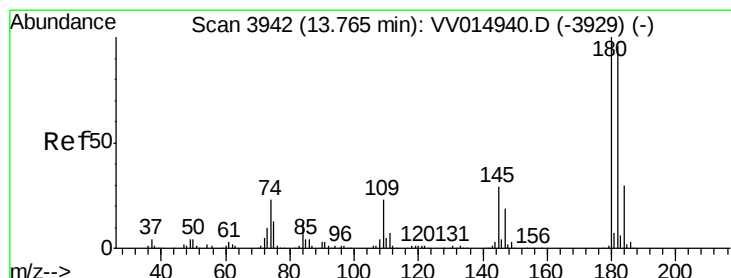
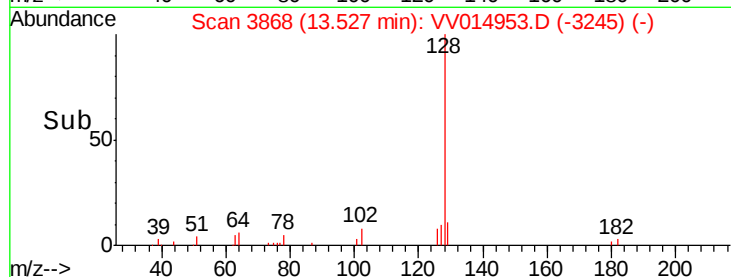
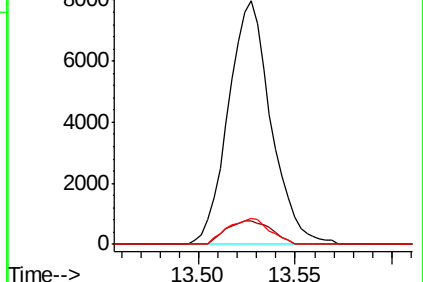
129 10.4 8.6 13.0



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: 32.807 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV014953.D

Acq: 16 Mar 2020 18:07

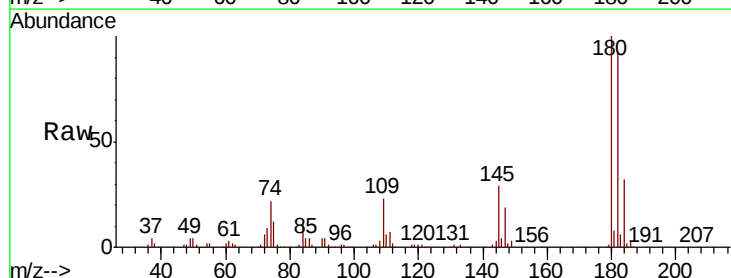
Tgt Ion:180 Resp: 205204

Ion Ratio Lower Upper

180 100

182 93.8 76.2 114.4

145 29.3 24.1 36.1



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

