

Data File : VV015039.D
Acq On : 19 Mar 2020 01:39
Operator : SY/MD
Sample : L1941-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0DL9

Quant Time: Mar 19 04:13:51 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031820WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 19 04:08:09 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	350153	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.92	117	350134	50.00	ug/L	0.04
60) 1,4-Dichlorobenzene-d4	11.30	152	238758	50.00	ug/L	0.03

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83324	50.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.86%
7) Chloroethane-d5	1.58	69	66391	51.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.50%
11) 1,1-Dichloroethene-d2	2.12	63	107497	38.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.88%
21) 2-Butanone-d5	3.93	46	97759	88.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.14%
24) Chloroform-d	4.38	84	264837	63.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	126.46%#
26) 1,2-Dichloroethane-d4	5.07	65	131127	49.73	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.46%
32) Benzene-d6	5.09	84	413081	49.72	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.44%
36) 1,2-Dichloropropane-d6	6.10	67	120162	49.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.86%
41) Toluene-d8	7.34	98	424341	50.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.46%
43) trans-1,3-Dichloropropene-	7.64	79	61387	47.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.48%
47) 2-Hexanone-d5	8.13	63	109570	97.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.81%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	186060	50.86	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.72%
64) 1,2-Dichlorobenzene-d4	11.68	152	237682	49.59	ug/L	0.04
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.18%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1123	0.746	ug/L #	13
12) 1,1-Dichloroethene	2.12	96	1214	0.852	ug/L #	1
13) Acetone	2.20	43	10715	11.616	ug/L	76
16) Methylene chloride	2.53	84	1816	0.804	ug/L	89
25) Chloroform	4.41	83	1583328	385.220	ug/L	99
27) 1,2-Dichloroethane	5.15	62	612242	199.472	ug/L #	73
29) Cyclohexane	4.71	56	21419	6.814	ug/L	96
31) Carbon tetrachloride	4.86	117	386428	113.841	ug/L	97
34) Trichloroethene	5.94	95	5905	2.543	ug/L	88
35) Methylcyclohexane	6.16	83	8167	2.217	ug/L #	62
38) Bromodichloromethane	6.53	83	14029	4.641	ug/L	95
39) cis-1,3-Dichloropropene	7.01	75	3775	1.088	ug/L #	78
42) Toluene	7.41	91	19638	2.027	ug/L	94
46) Tetrachloroethene	8.00	164	6271	2.844	ug/L	91
48) 2-Hexanone	8.13	43	14965	6.978	ug/L #	66
49) Dibromochloromethane	8.27	129	5962	2.270	ug/L	79
61) Bromoform	9.76	173	2275	0.964	ug/L #	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV031820\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Thu Mar 19 04:08:09 2020
Response via : Initial Calibration

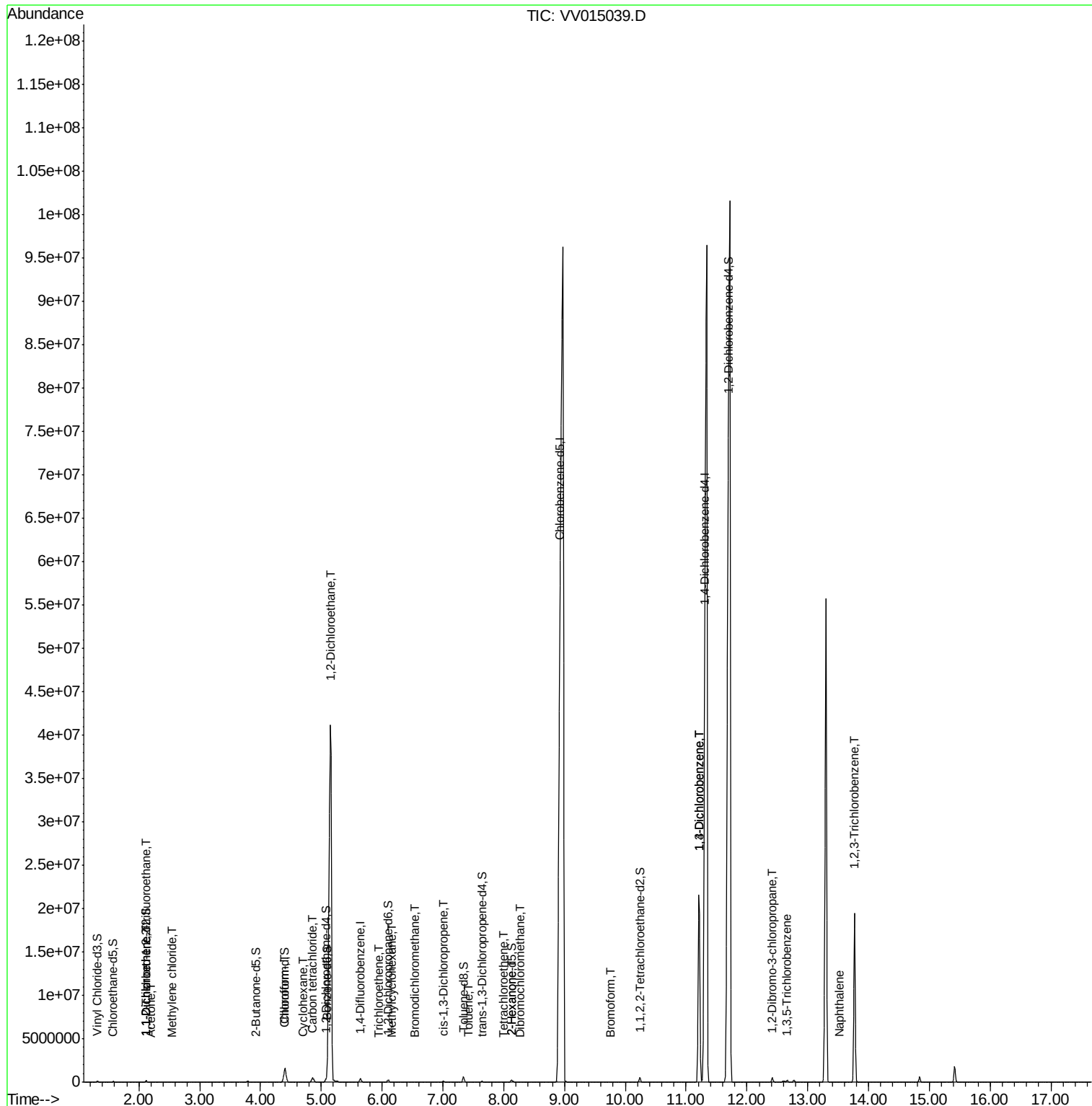
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.21	146	11208488	1559.626	ug/L	96
63) 1,4-Dichlorobenzene	11.21	146	11208488	1498.319	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.42	75	68050	63.790	ug/L #	1
67) 1,3,5-Trichlorobenzene	12.67	180	17546	3.086	ug/L	98
69) Naphthalene	13.53	128	19451	2.845	ug/L	98
70) 1,2,3-Trichlorobenzene	13.77	180	6420556	1248.045	ug/L	98

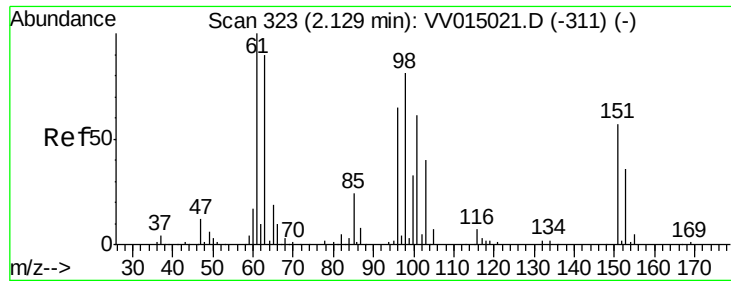
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.746 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

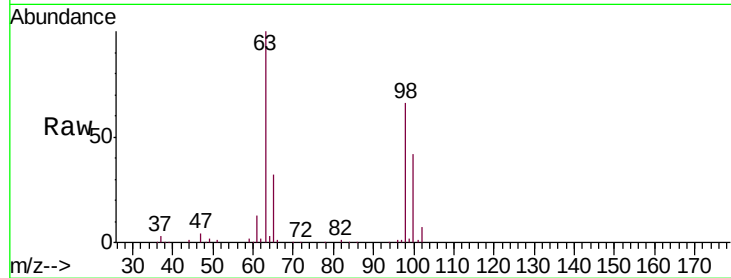
Tgt Ion:101 Resp: 1123

Ion Ratio Lower Upper

101 100

85 0.0 33.2 49.8#

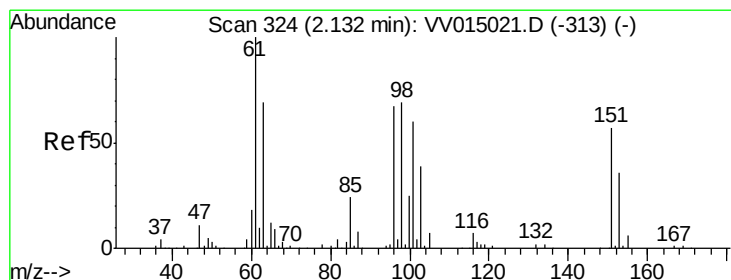
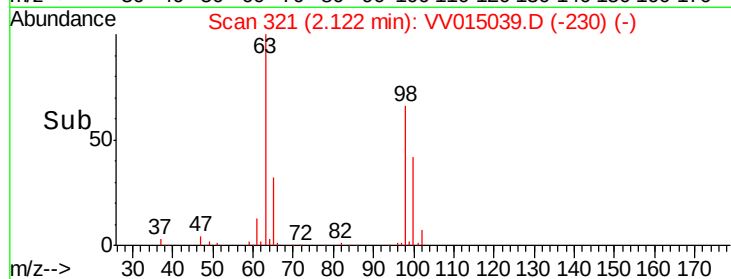
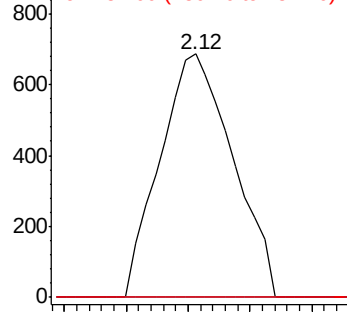
151 0.0 72.6 109.0#



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: 0.852 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

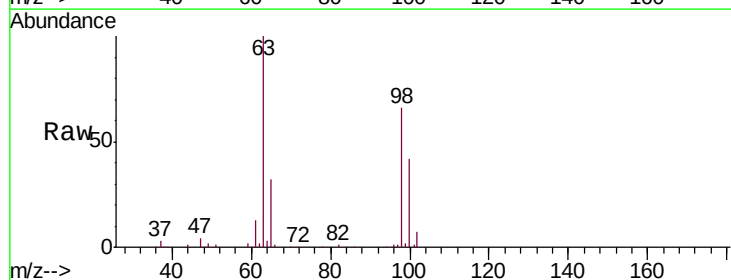
Tgt Ion: 96 Resp: 1214

Ion Ratio Lower Upper

96 100

61 1176.3 105.6 196.2#

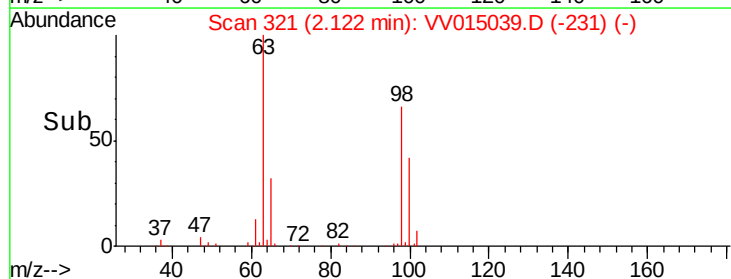
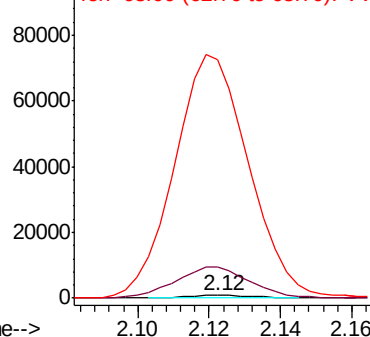
63 8844.0 75.9 140.9#

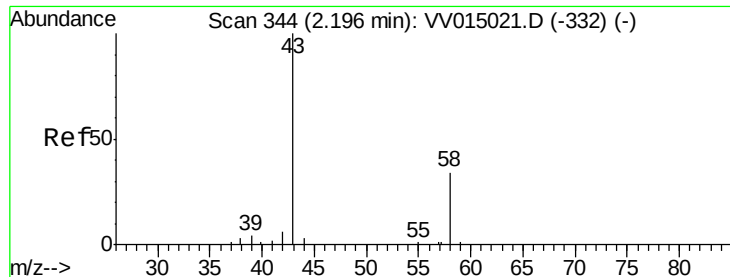


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 11.616 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

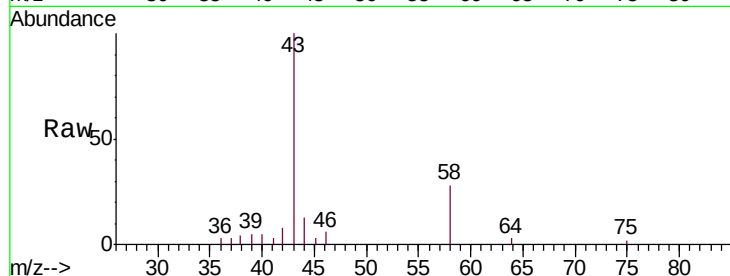
C0DL9

Tgt Ion: 43 Resp: 10715

Ion Ratio Lower Upper

43 100

58 33.0 0.0 43.2

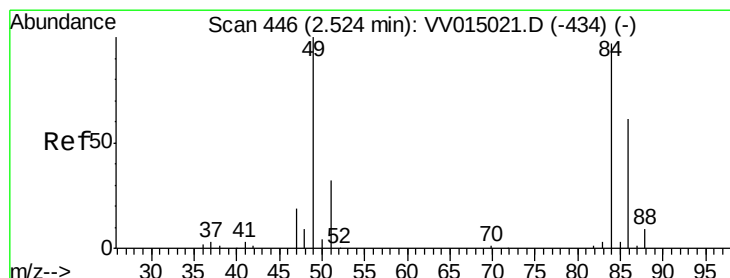
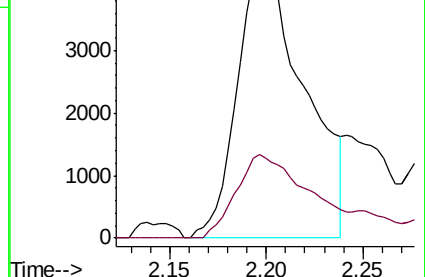
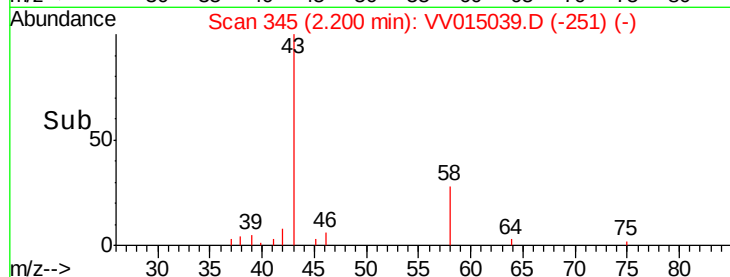


Abundance Ion 43.00 (42.70 to 43.70): VV015039.D (-345) (-)

Ion 58.00 (57.70 to 58.70): VV015039.D (-345) (-)

2.20

Time-->



#16

Methylene chloride

Concen: 0.804 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

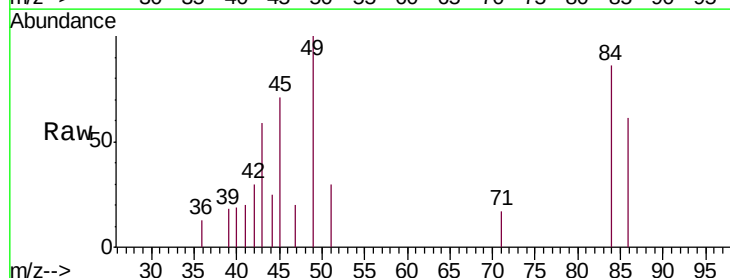
Tgt Ion: 84 Resp: 1816

Ion Ratio Lower Upper

84 100

86 71.5 44.5 82.7

49 116.3 72.9 135.5



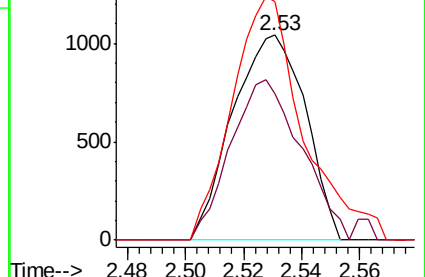
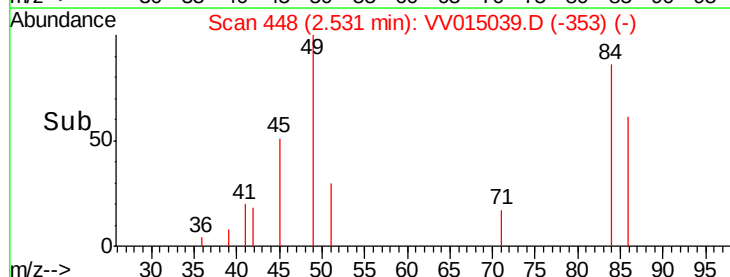
Abundance Ion 84.00 (83.70 to 84.70): VV015039.D (-353) (-)

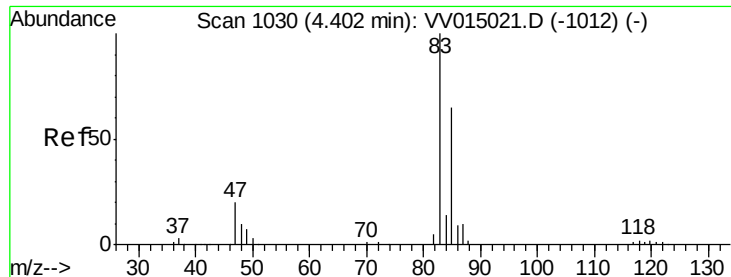
Ion 86.00 (85.70 to 86.70): VV015039.D (-353) (-)

Ion 49.00 (48.70 to 49.70): VV015039.D (-353) (-)

2.53

Time-->

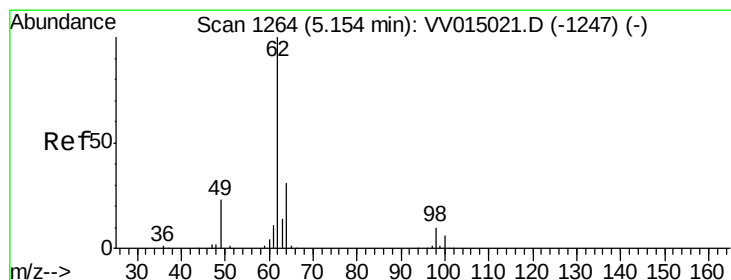
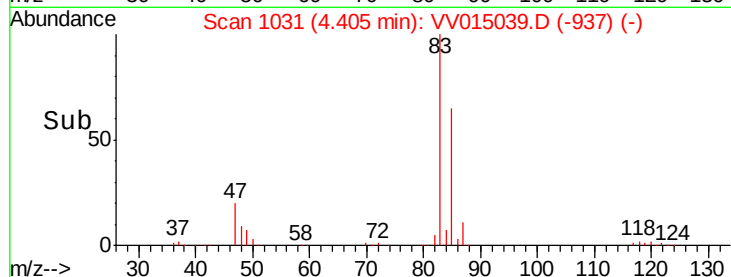
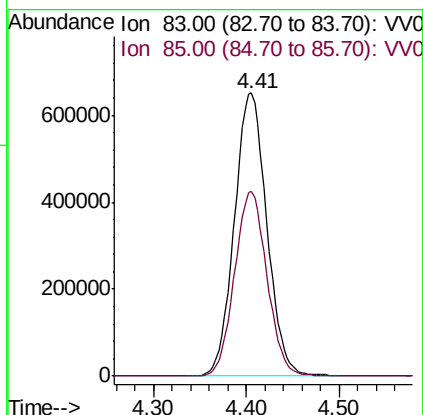
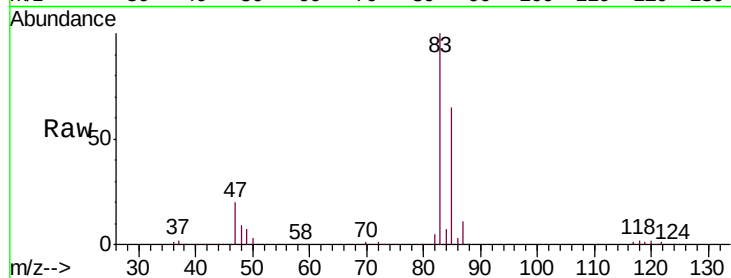




#25
Chloroform
Concen: 385.220 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

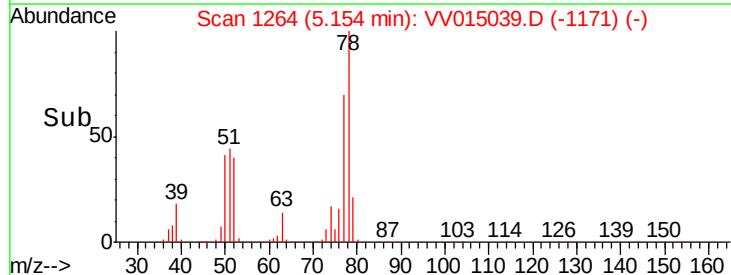
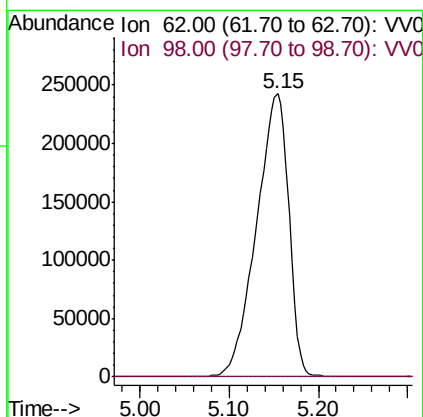
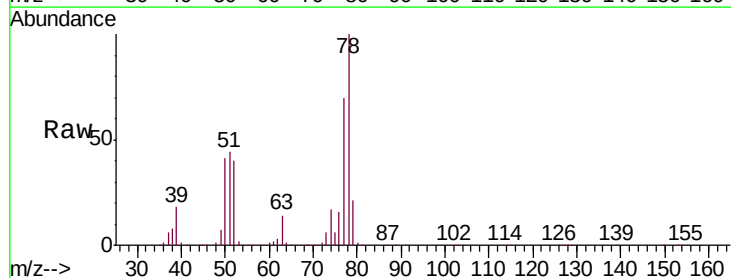
Instrument :
MSVOA_V
ClientSampleId :
C0DL9

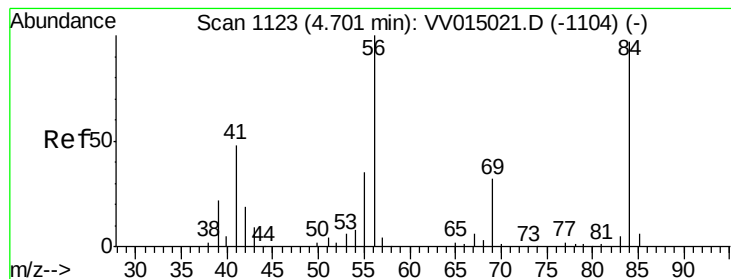
Tgt Ion: 83 Resp: 1583328
Ion Ratio Lower Upper
83 100
85 65.3 45.4 84.4



#27
1,2-Dichloroethane
Concen: 199.472 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

Tgt Ion: 62 Resp: 612242
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#





#29

Cyclohexane

Concen: 6.814 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

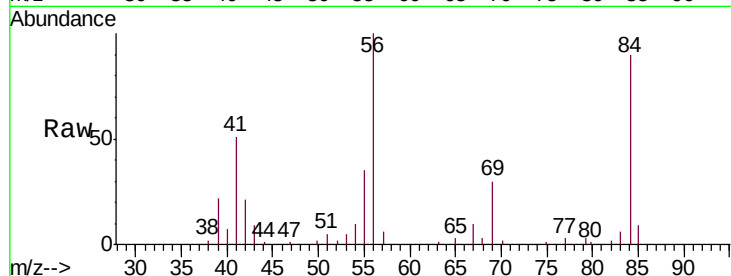
Tgt Ion: 56 Resp: 21419

Ion Ratio Lower Upper

56 100

69 31.2 25.8 38.6

84 95.8 80.0 120.0

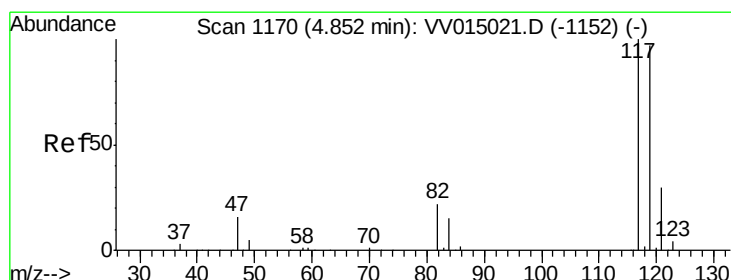
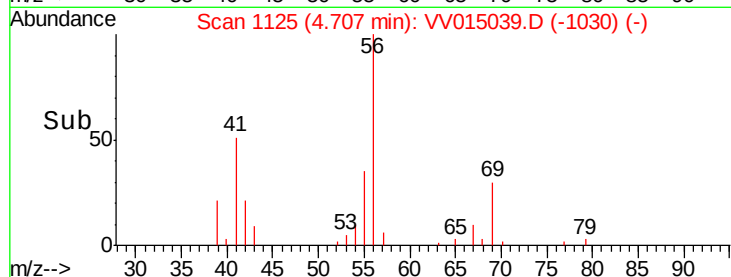
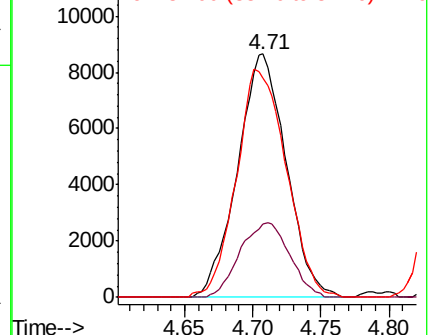


Abundance

Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#31

Carbon tetrachloride

Concen: 113.841 ug/L

RT: 4.86 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VV015039.D

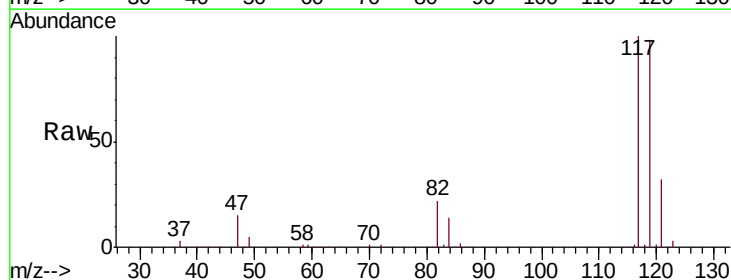
Acq: 19 Mar 2020 01:39

Tgt Ion: 117 Resp: 386428

Ion Ratio Lower Upper

117 100

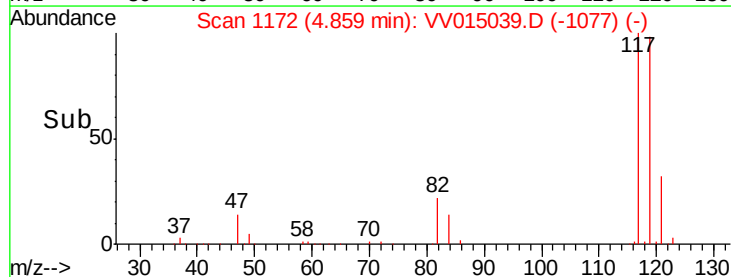
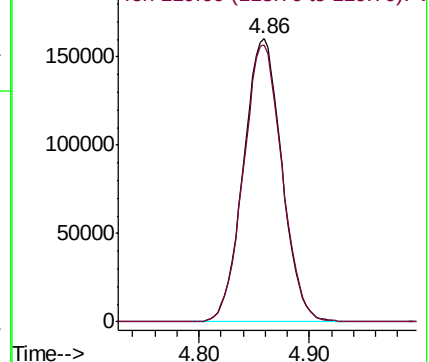
119 98.5 76.6 114.8

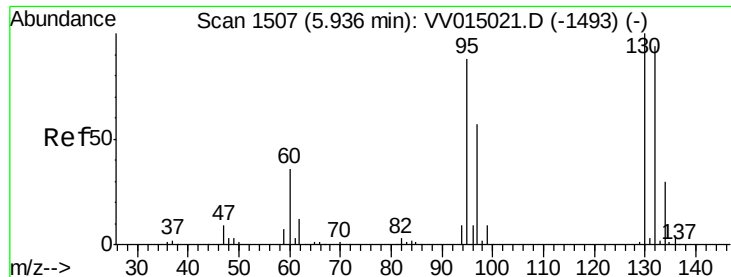


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Trichloroethene

Concen: 2.543 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampled :

C0DL9

Tgt Ion: 95 Resp: 5905

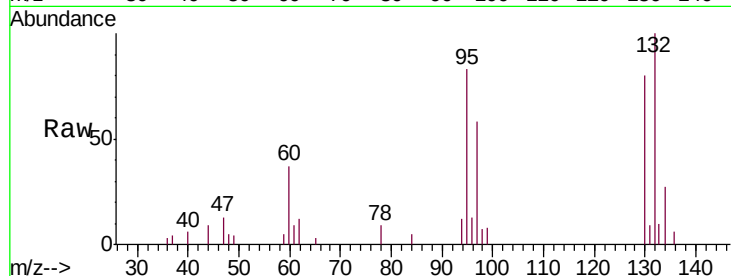
Ion Ratio Lower Upper

95 100

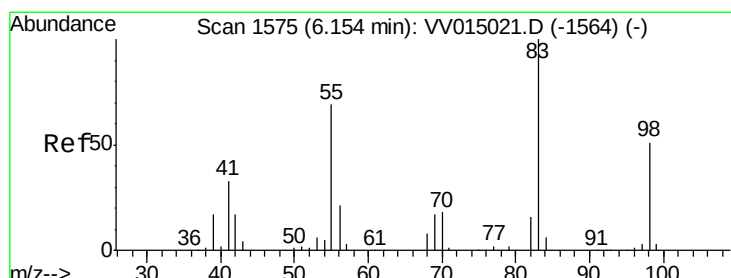
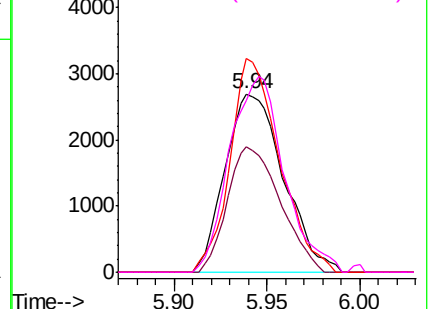
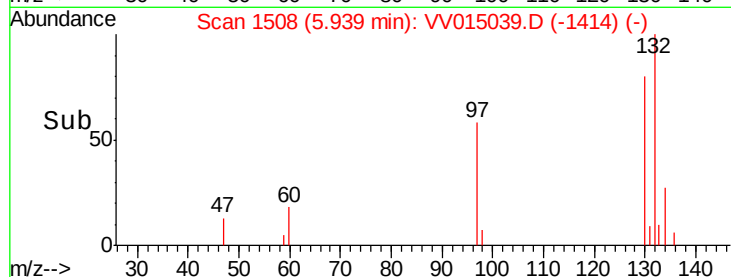
97 70.1 46.8 87.0

132 119.9 76.2 141.4

130 96.4 80.8 150.2



Abundance Ion 95.00 (94.70 to 95.70): VV015039.D (-1414) (-)



#35

Methylcyclohexane

Concen: 2.217 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

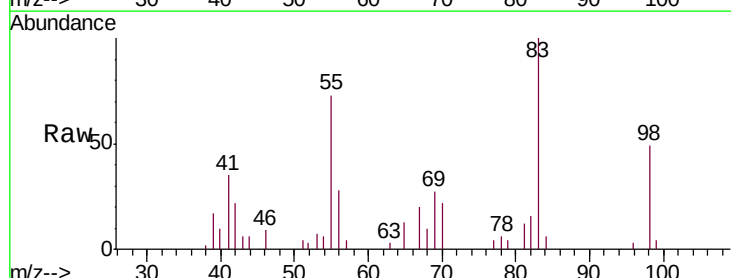
Tgt Ion: 83 Resp: 8167

Ion Ratio Lower Upper

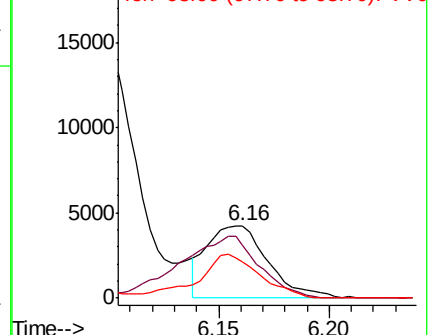
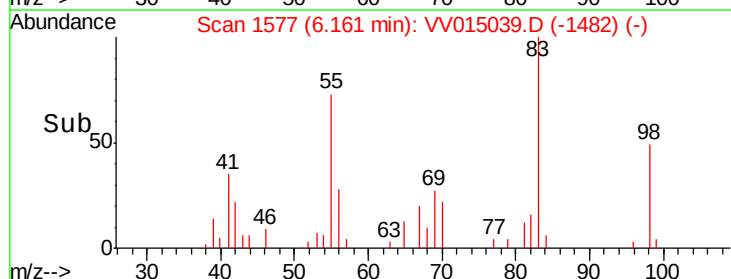
83 100

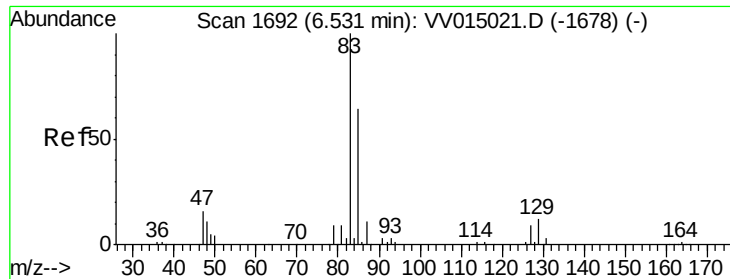
55 113.7 55.4 83.0#

98 61.1 40.6 61.0#



Abundance Ion 83.00 (82.70 to 83.70): VV015039.D (-1482) (-)

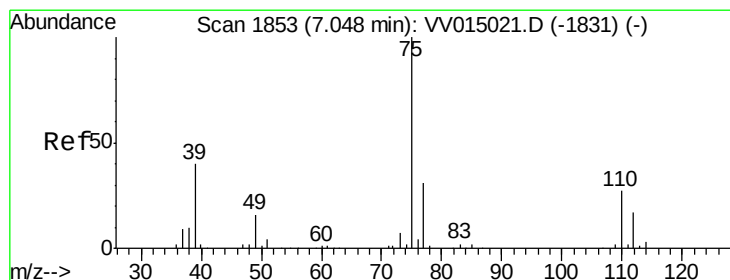
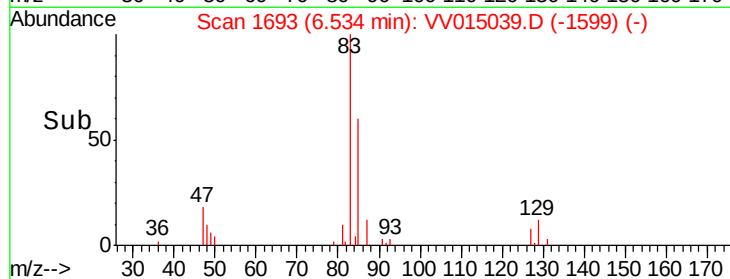
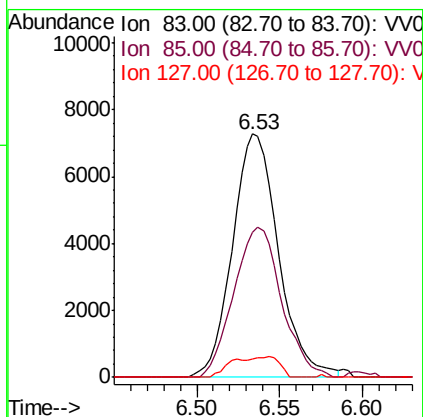
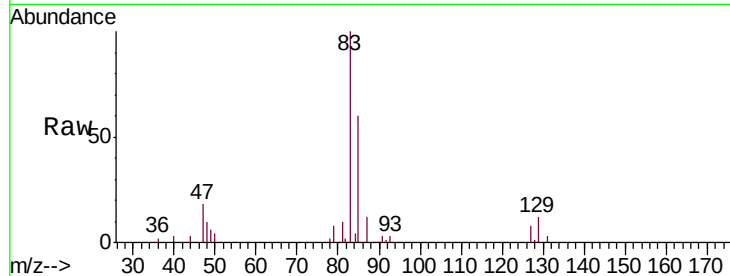




#38
 Bromodichloromethane
 Concen: 4.641 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

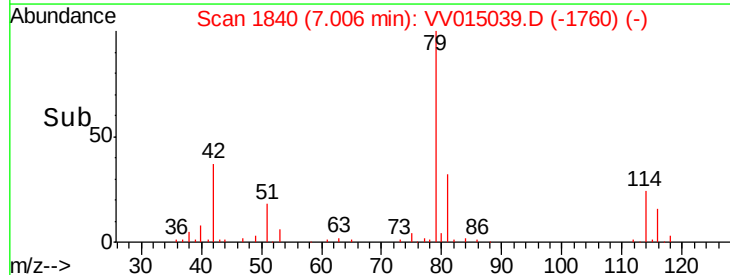
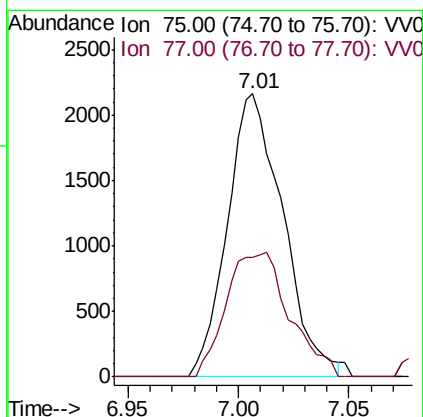
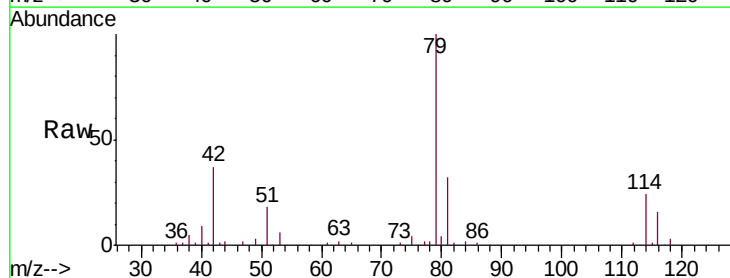
Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL9

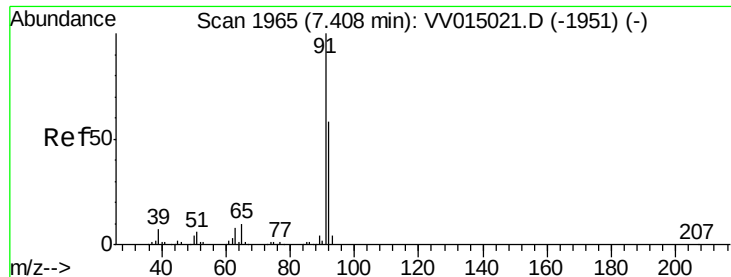
Tgt Ion: 83 Resp: 14029
 Ion Ratio Lower Upper
 83 100
 85 59.8 44.6 82.8
 127 7.7 7.4 11.2



#39
 cis-1,3-Dichloropropene
 Concen: 1.088 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

Tgt Ion: 75 Resp: 3775
 Ion Ratio Lower Upper
 75 100
 77 42.2 21.1 39.3#





#42

Toluene

Concen: 2.027 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

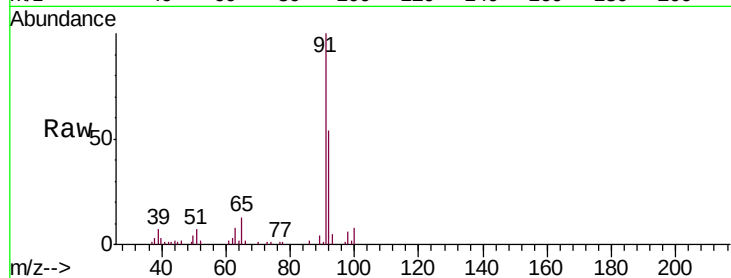
C0DL9

Tgt Ion: 91 Resp: 19638

Ion Ratio Lower Upper

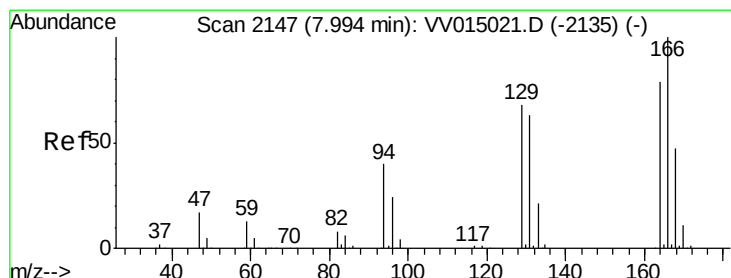
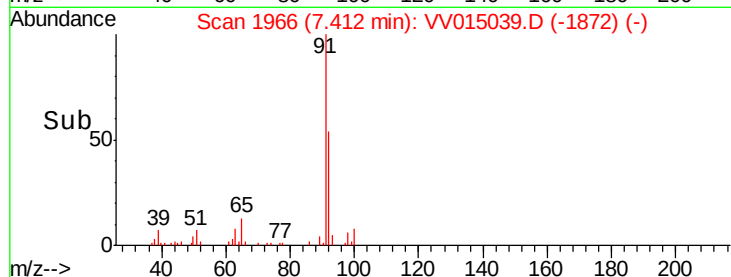
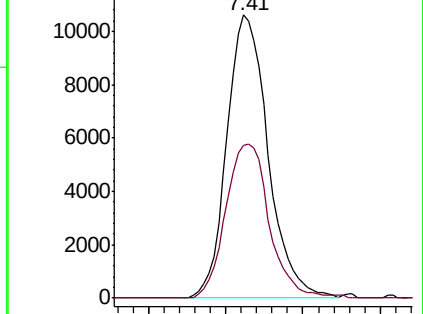
91 100

92 54.2 41.2 76.4



Abundance Ion 91.00 (90.70 to 91.70): VV015021.D (-1951) (-)

Ion 92.00 (91.70 to 92.70): VV015021.D (-1951) (-)



#46

Tetrachloroethene

Concen: 2.844 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Tgt Ion: 164 Resp: 6271

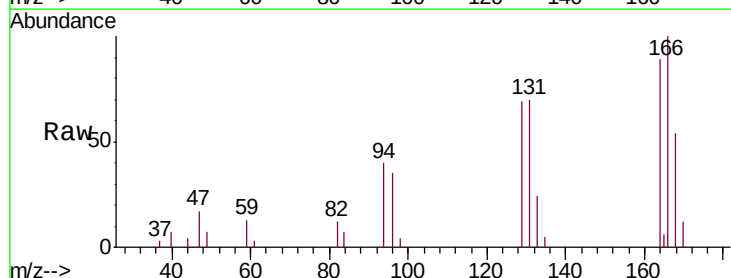
Ion Ratio Lower Upper

164 100

129 77.4 60.4 112.2

131 78.0 57.0 105.8

166 111.9 88.5 164.3

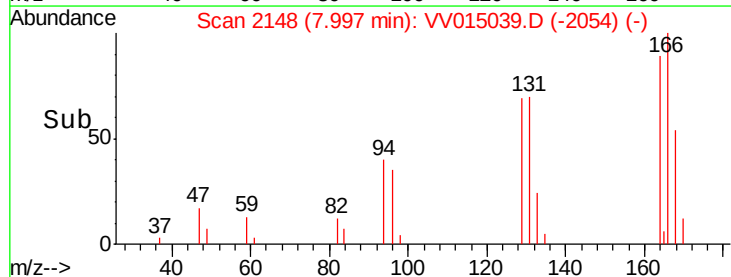
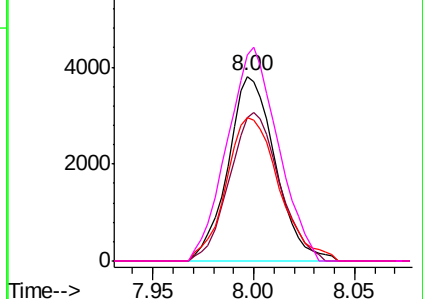


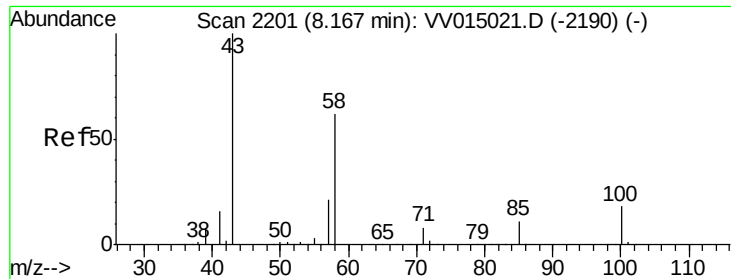
Abundance Ion 164.00 (163.70 to 164.70): VV015021.D (-2135) (-)

Ion 129.00 (128.70 to 129.70): VV015021.D (-2135) (-)

Ion 131.00 (130.70 to 131.70): VV015021.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV015021.D (-2135) (-)

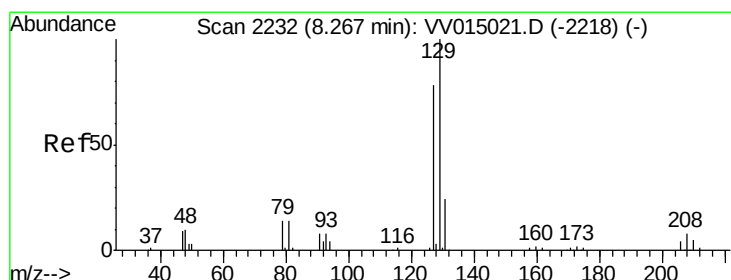
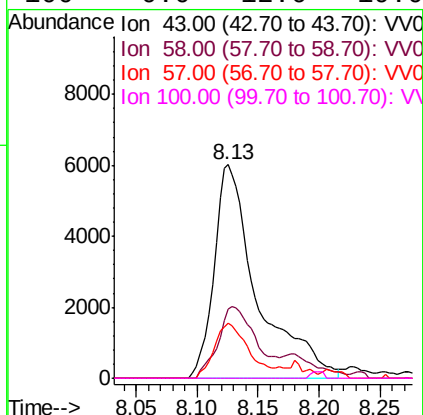
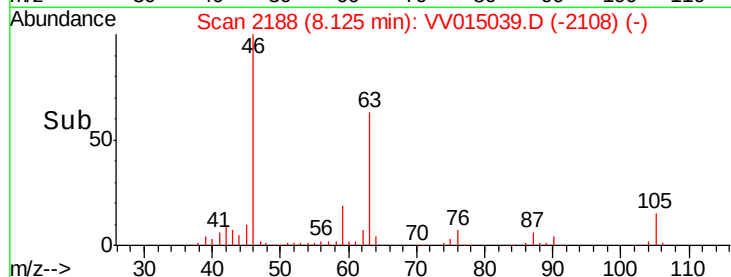
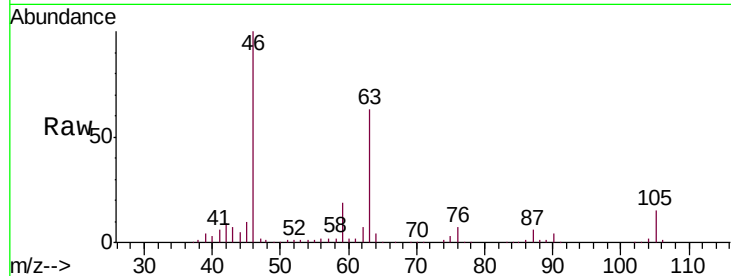




#48
2-Hexanone
Concen: 6.978 ug/L
RT: 8.13 min Scan# 2188
Delta R.T. -0.04 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

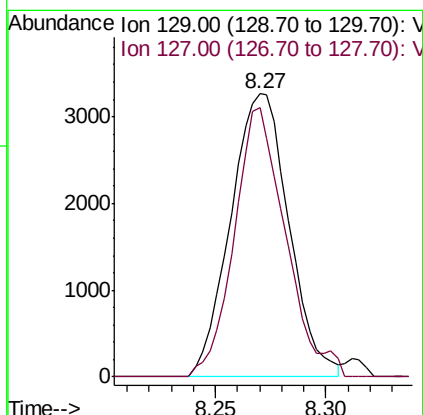
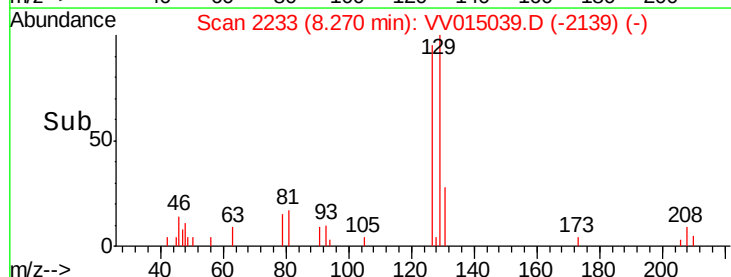
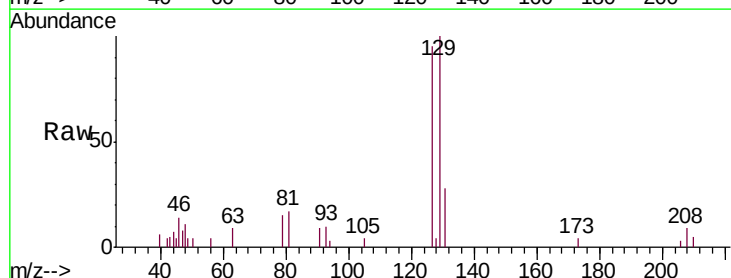
Instrument :
MSVOA_V
ClientSampleId :
C0DL9

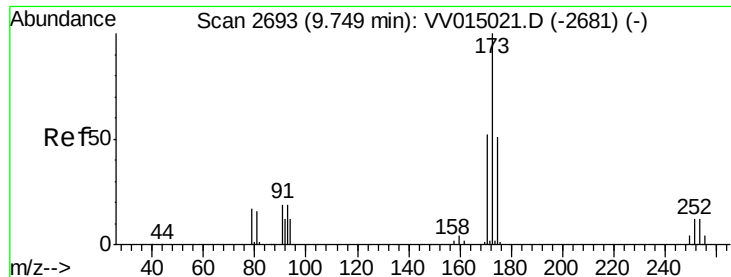
Tgt Ion: 43 Resp: 14965
Ion Ratio Lower Upper
43 100
58 27.3 48.2 72.2#
57 20.1 15.8 23.6
100 0.0 12.6 19.0#



#49
Dibromochloromethane
Concen: 2.270 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.00 min
Lab File: VV015039.D
Acq: 19 Mar 2020 01:39

Tgt Ion: 129 Resp: 5962
Ion Ratio Lower Upper
129 100
127 95.0 53.8 99.8





#61

Bromoform

Concen: 0.964 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

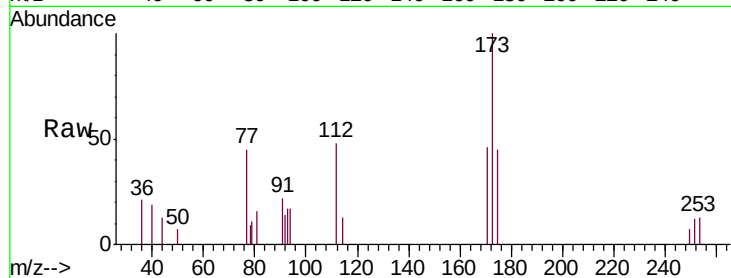
Tgt Ion:173 Resp: 2275

Ion Ratio Lower Upper

173 100

175 49.2 39.5 59.3

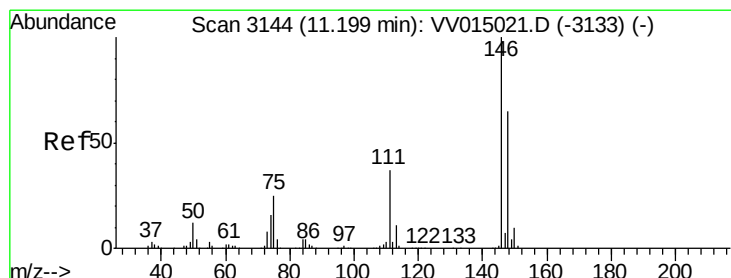
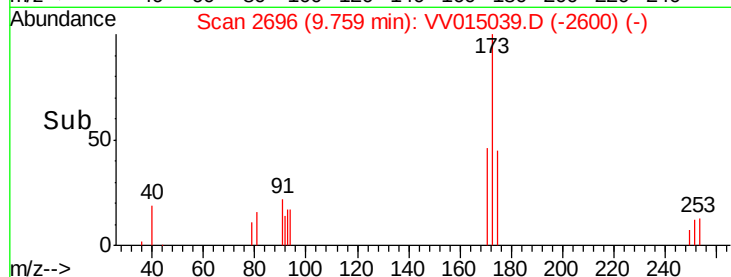
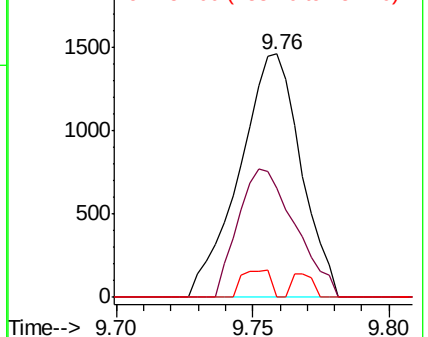
254 1.4 10.1 15.1#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 1559.626 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. 0.01 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

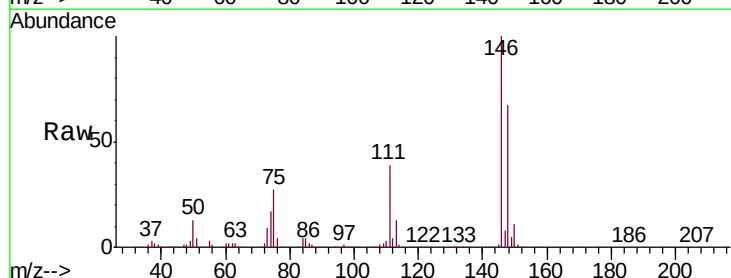
Tgt Ion:146 Resp:11208488

Ion Ratio Lower Upper

146 100

111 39.4 25.7 47.7

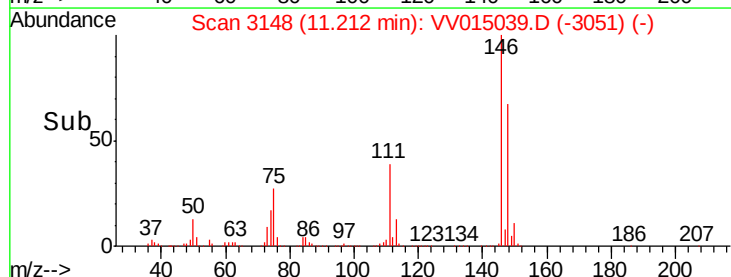
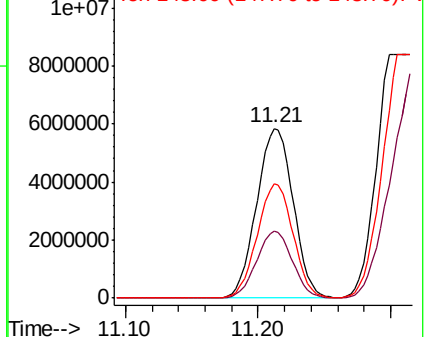
148 67.2 45.4 84.4

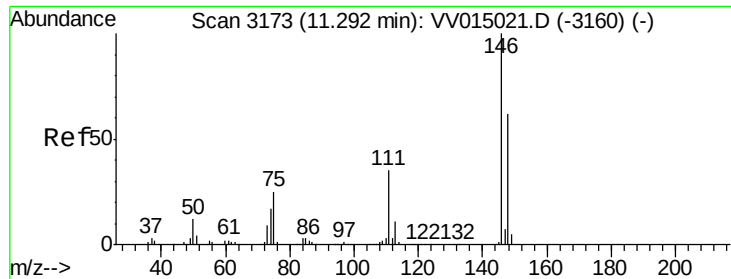


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 1498.319 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. -0.08 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampled :

C0DL9

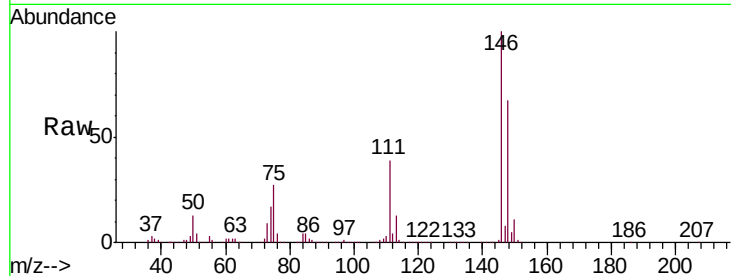
Tgt Ion:146 Resp:11208488

Ion Ratio Lower Upper

146 100

111 39.4 25.8 48.0

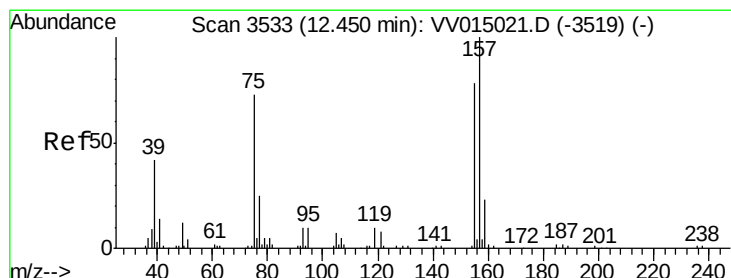
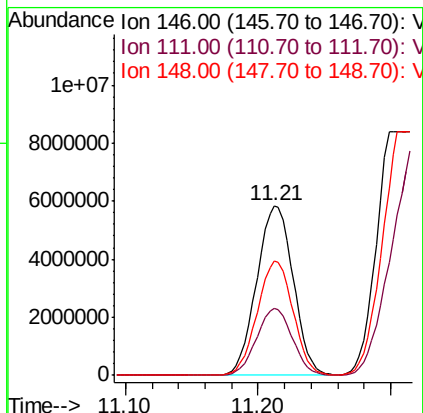
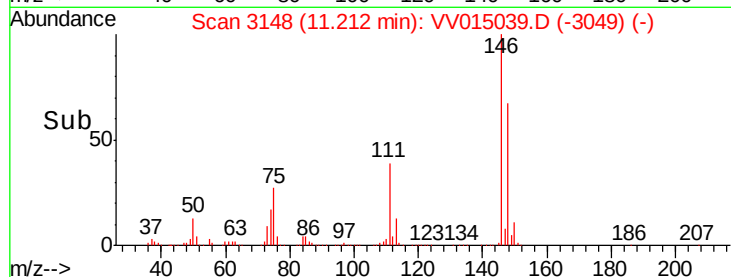
148 67.2 45.7 84.9



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: 63.790 ug/L

RT: 12.42 min Scan# 3523

Delta R.T. -0.03 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

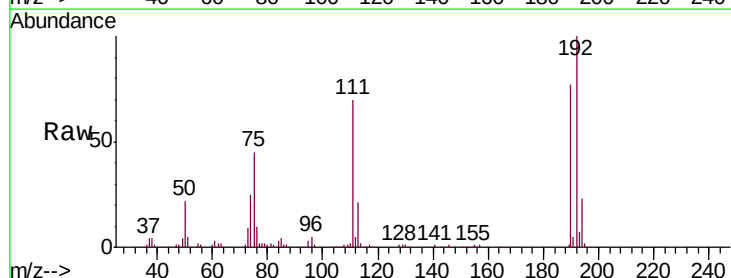
Tgt Ion: 75 Resp: 68050

Ion Ratio Lower Upper

75 100

155 3.2 80.6 121.0#

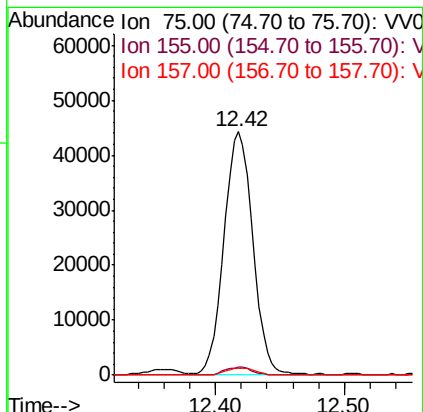
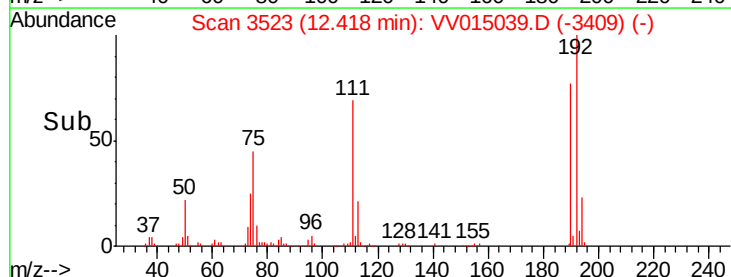
157 2.9 104.6 157.0#

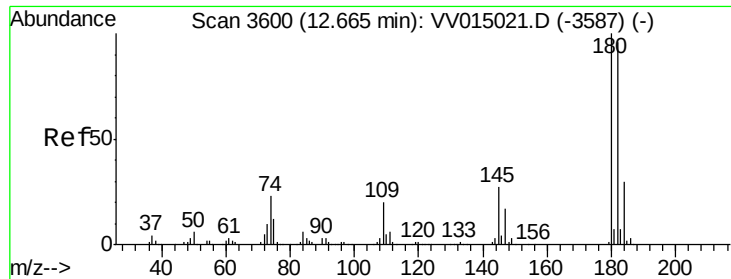


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 3.086 ug/L

RT: 12.67 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

Instrument :

MSVOA_V

ClientSampleId :

C0DL9

Tgt Ion:180 Resp: 17546

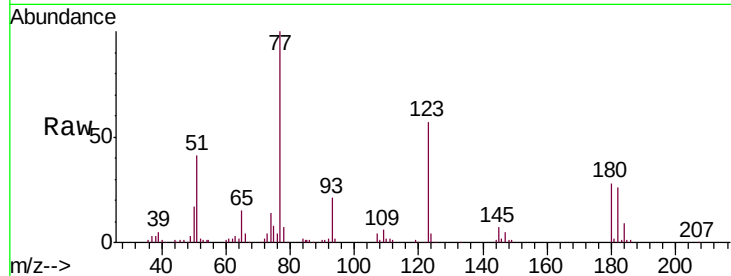
Ion Ratio Lower Upper

180 100

182 93.2 75.2 112.8

184 32.4 23.9 35.9

145 25.9 22.0 33.0

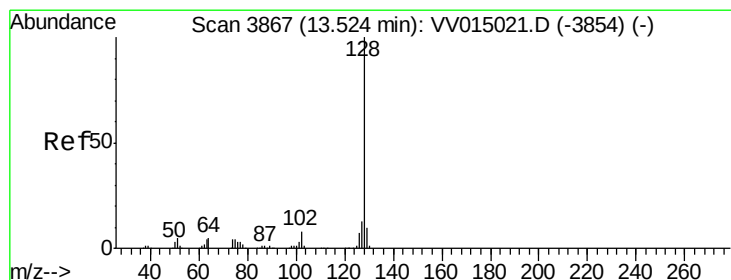
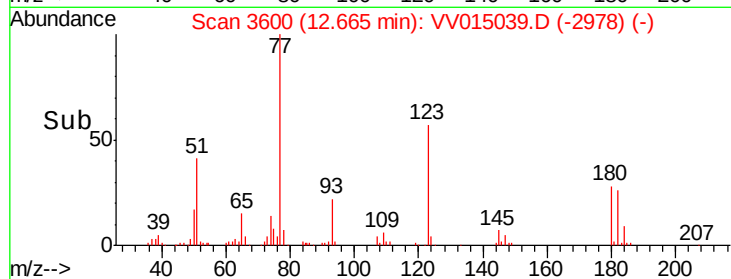
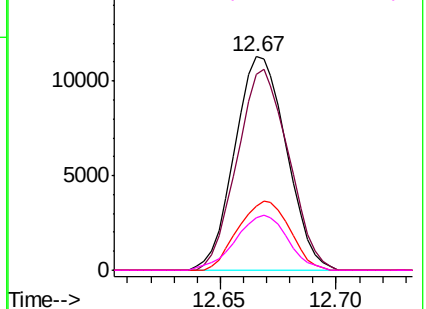


Abundance Ion 180.00 (179.70 to 180.70): V

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



#69

Naphthalene

Concen: 2.845 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV015039.D

Acq: 19 Mar 2020 01:39

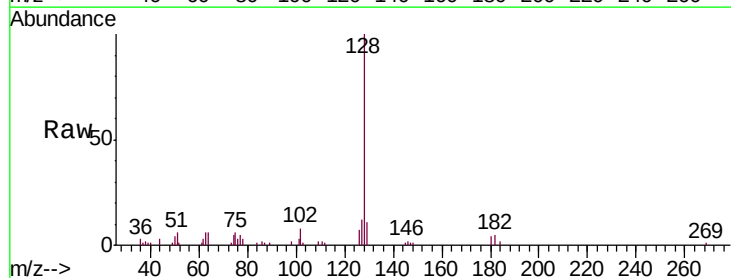
Tgt Ion:128 Resp: 19451

Ion Ratio Lower Upper

128 100

127 11.2 10.1 15.1

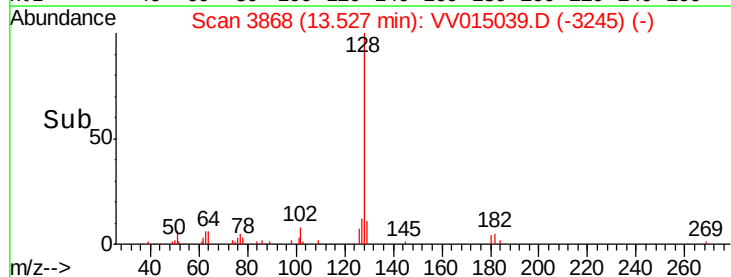
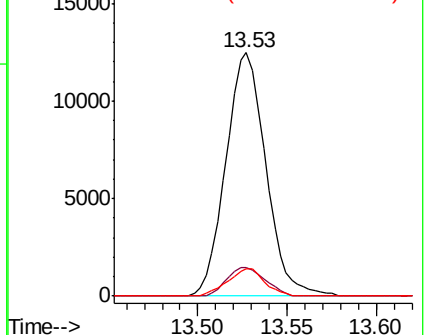
129 10.4 8.6 13.0

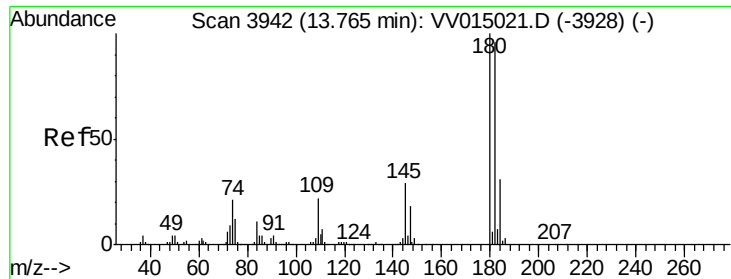


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 1248.045 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV015039.D
 Acq: 19 Mar 2020 01:39

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL9

Tgt Ion:180 Resp: 6420556
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.5 113.3
 145 30.0 23.5 35.3

