

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
 Data File : VV018741.D
 Acq On : 07 Oct 2020 20:35
 Operator : SY/MD
 Sample : L4239-10 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 06:41:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 02:46:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	312858	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	285372	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	179763	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	75672	41.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.48%
7) Chloroethane-d5	1.58	69	69380	45.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.46%
11) 1,1-Dichloroethene-d2	2.12	63	126399	33.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.62%
21) 2-Butanone-d5	3.91	46	116908	85.42	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	85.42%
24) Chloroform-d	4.38	84	161293	40.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.30%
26) 1,2-Dichloroethane-d4	5.05	65	128726	51.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.22%
32) Benzene-d6	5.07	84	365250	50.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.06%
36) 1,2-Dichloropropane-d6	6.09	67	95563	43.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.50%
41) Toluene-d8	7.34	98	278237	40.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.84%
43) trans-1,3-Dichloropropene-	7.64	79	48954	41.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.98%
47) 2-Hexanone-d5	8.11	63	69199	83.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	83.42%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	149737	51.71	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.42%
64) 1,2-Dichlorobenzene-d4	11.65	152	147131	42.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.12%

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	2.13	96	3211	1.644 ug/L #	1
20) cis-1,2-Dichloroethene	3.94	96	116839	49.195 ug/L	96
29) Cyclohexane	4.70	56	73096	22.458 ug/L	97
30) 1,1,1-Trichloroethane	4.63	97	387649	109.419 ug/L	98
31) Carbon tetrachloride	4.63	117	49948	15.709 ug/L	96
34) Trichloroethene	5.94	95	18364	7.545 ug/L	97
39) cis-1,3-Dichloropropene	7.01	75	3494	1.035 ug/L	84
42) Toluene	7.41	91	3083198	339.950 ug/L	99
46) Tetrachloroethene	8.00	164	1561	0.791 ug/L	94
48) 2-Hexanone	8.11	43	9199	4.248 ug/L #	68
52) Ethylbenzene	9.03	91	214323	21.160 ug/L	98
53) m,p-Xylene	9.16	106	339088	86.627 ug/L	99
54) o-xylene	9.56	106	147738	39.865 ug/L	97
55) Styrene	9.56	104	7867	1.219 ug/L #	1
56) Isopropylbenzene	9.95	105	128043	12.883 ug/L	98
59) 1,2,3-Trichloropropane	10.38	75	3921	1.499 ug/L #	1
65) 1,2-Dichlorobenzene	11.67	146	12096	2.102 ug/L #	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
Data File : VV018741.D
Acq On : 07 Oct 2020 20:35
Operator : SY/MD
Sample : L4239-10 20X
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Oct 08 06:41:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 08 02:46:20 2020
Response via : Initial Calibration

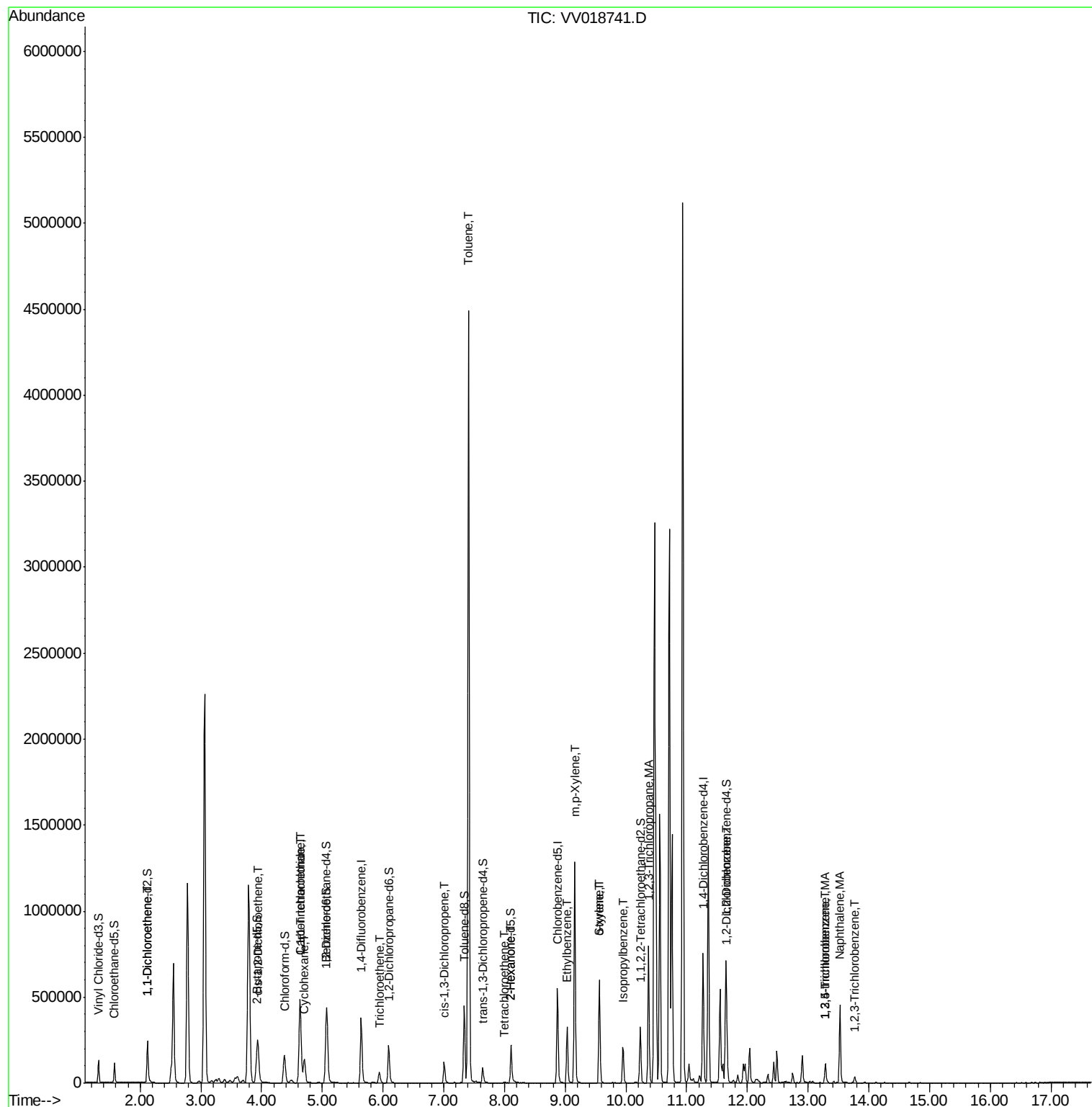
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	13.28	180	27863	6.914	ug/L	96
68) 1,2,4-trichlorobenzene	13.28	180	27863	7.430	ug/L	97
69) Naphthalene	13.52	128	330689	30.806	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	9789	2.600	ug/L	99

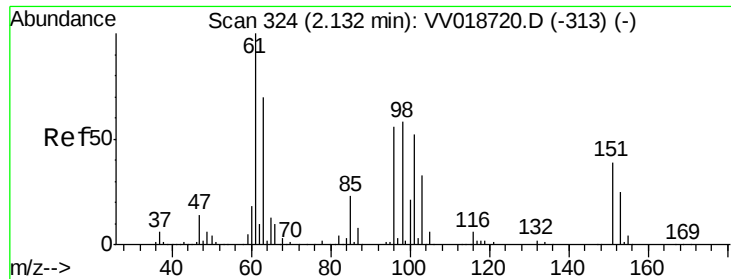
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
Data File : VV018741.D
Acq On : 07 Oct 2020 20:35
Operator : SY/MD
Sample : L4239-10 20X
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Oct 08 06:41:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 08 02:46:20 2020
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 1.644 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Instrument :
MSVOA_V
ClientSampled :

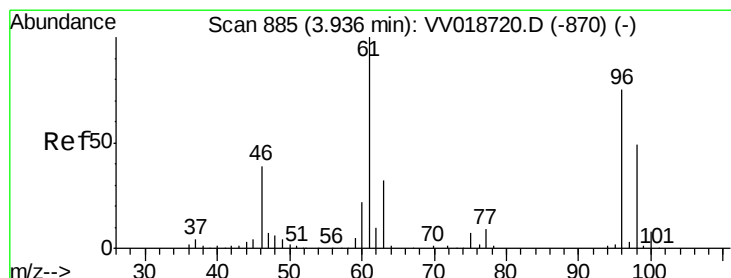
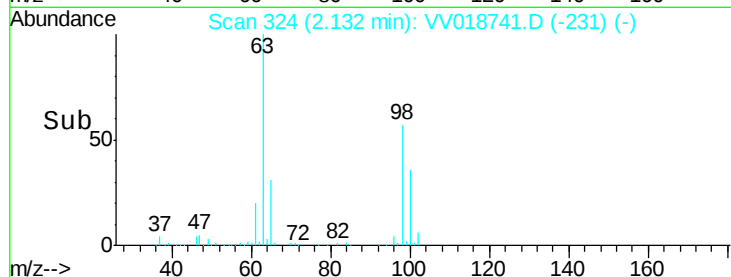
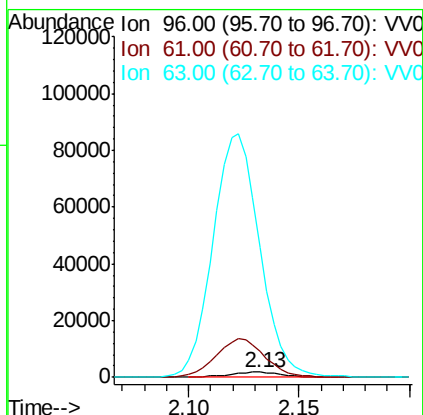
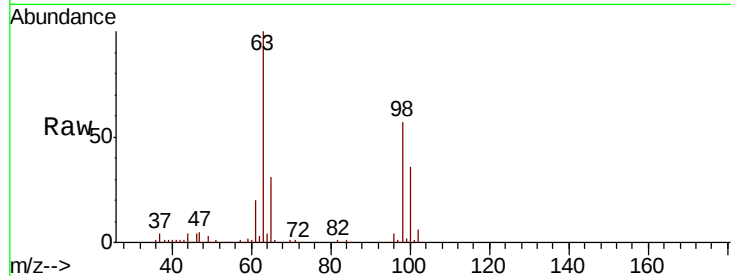
Tot Ion: 96 Resp: 3211

Ion Ratio Lower Upper

96 100

61 498.4 122.8 228.1#

63 2507.0 91.9 170.7#



#20

cis-1,2-Dichloroethene

Concen: 49.195 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

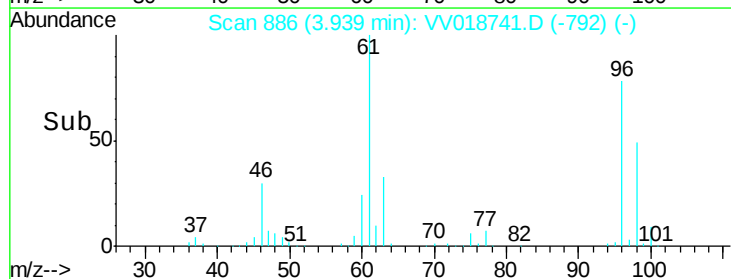
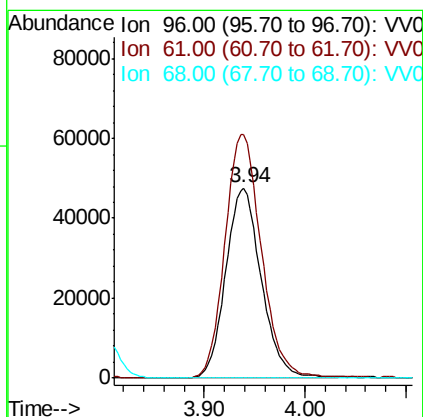
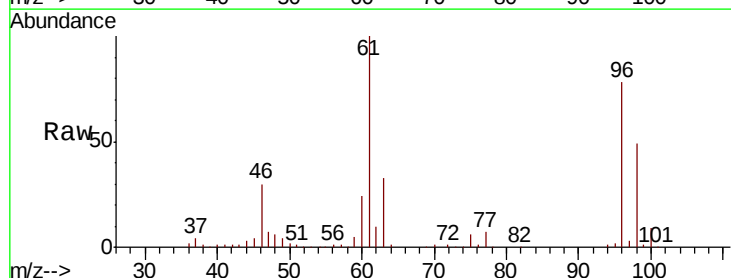
Tgt Ion: 96 Resp: 116839

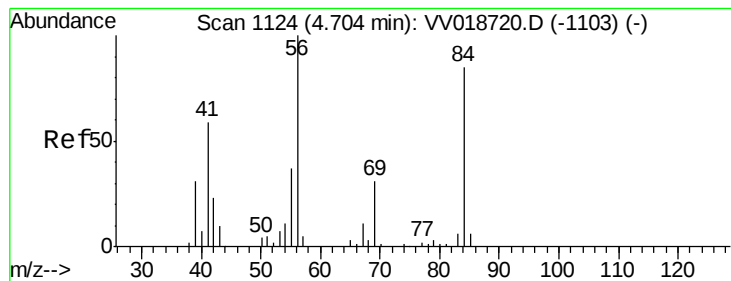
Ion Ratio Lower Upper

96 100

61 128.2 86.8 161.2

68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 22.458 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Instrument :
MSVOA_V
ClientSampleId :

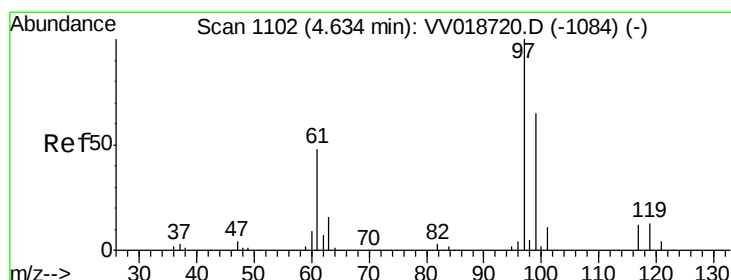
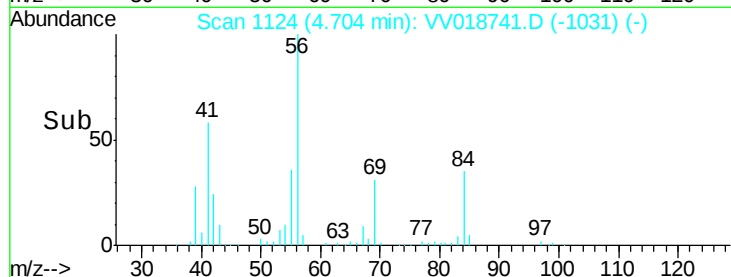
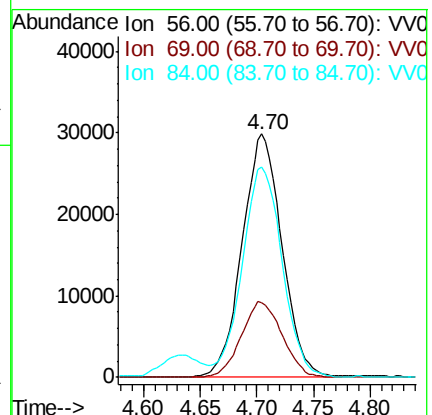
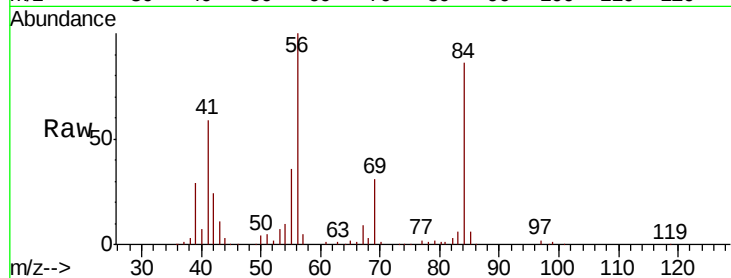
Tot Ion: 56 Resp: 73096

Ion Ratio Lower Upper

56 100

69 31.9 24.8 37.2

84 86.9 72.2 108.4



#30

1,1,1-Trichloroethane

Concen: 109.419 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

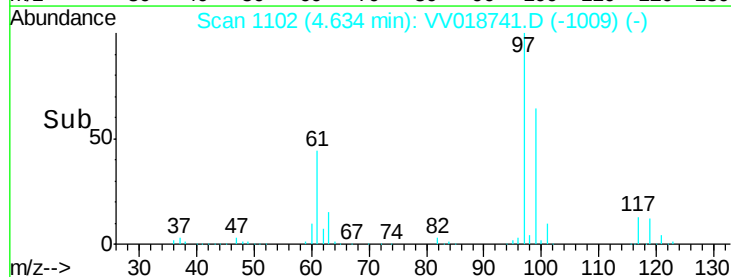
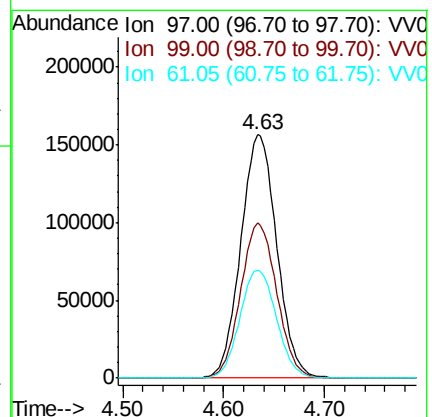
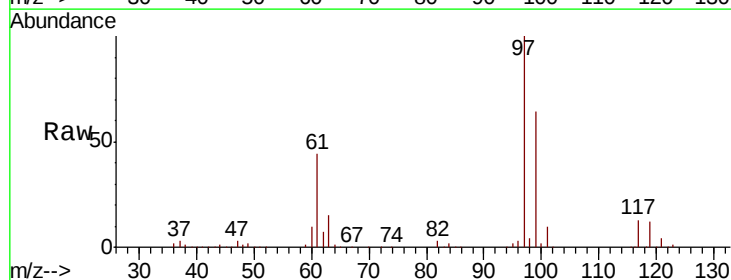
Tgt Ion: 97 Resp: 387649

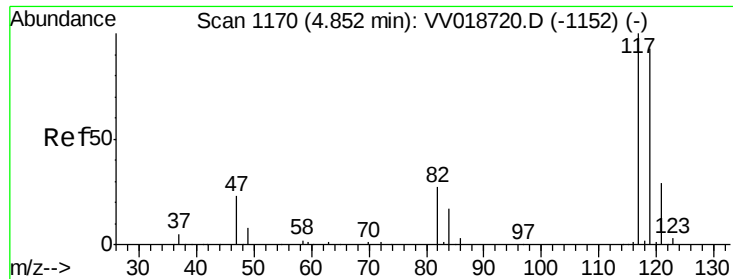
Ion Ratio Lower Upper

97 100

99 64.1 51.4 77.0

61 45.0 33.9 50.9

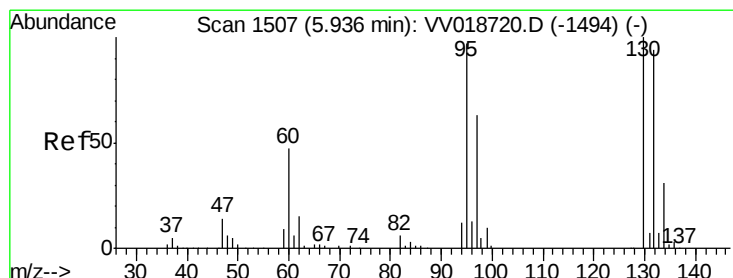
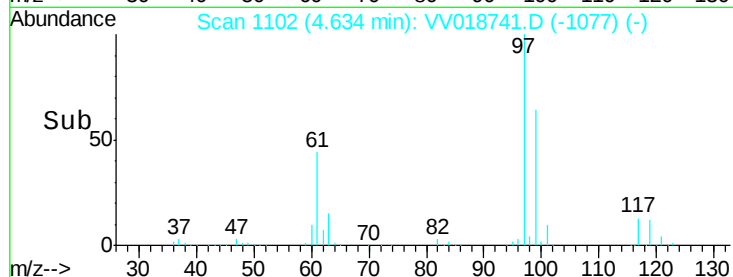
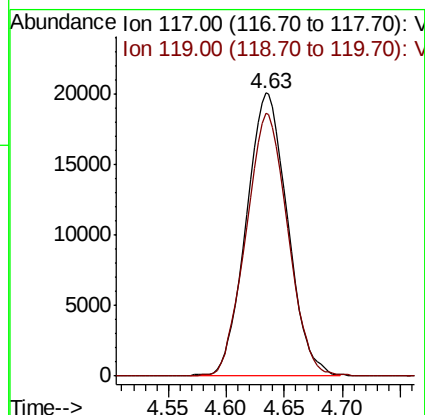
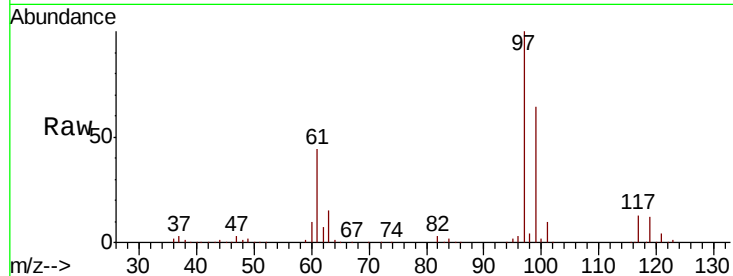




#31
Carbon tetrachloride
Concen: 15.709 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.22 min
Lab File: VV018741.D
Acq: 07 Oct 2020 20:35

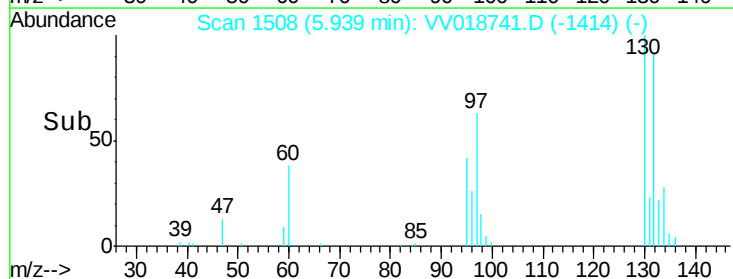
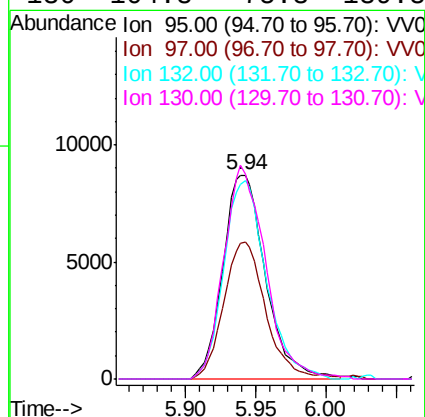
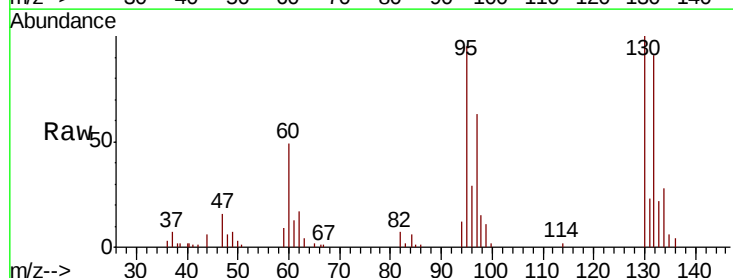
Instrument :
MSVOA_V
ClientSampleId :

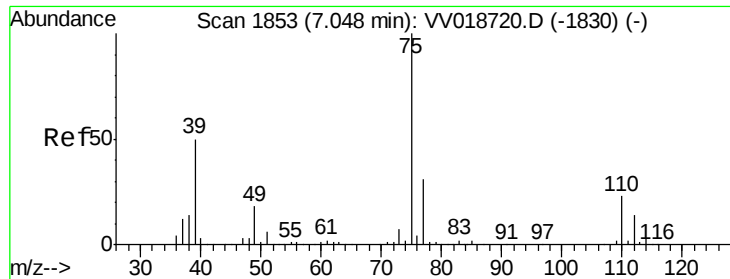
Tot Ion:117 Resp: 49948
Ion Ratio Lower Upper
117 100
119 92.0 77.0 115.6



#34
Trichloroethene
Concen: 7.545 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV018741.D
Acq: 07 Oct 2020 20:35

Tgt Ion: 95 Resp: 18364
Ion Ratio Lower Upper
95 100
97 66.4 45.9 85.3
132 95.7 70.8 131.4
130 104.8 75.3 139.8

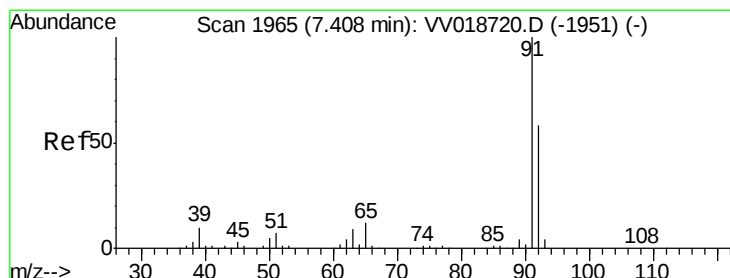
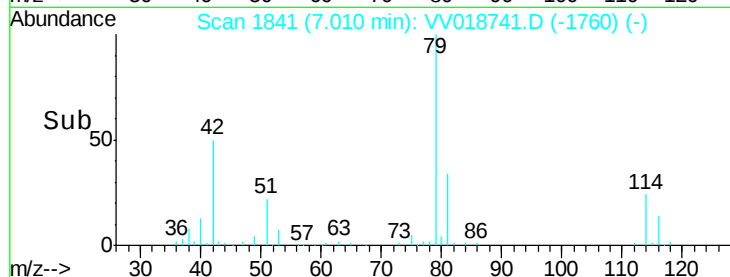
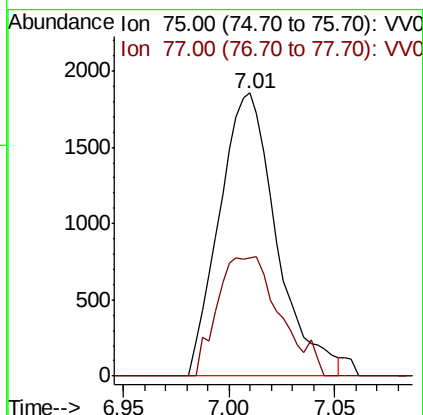
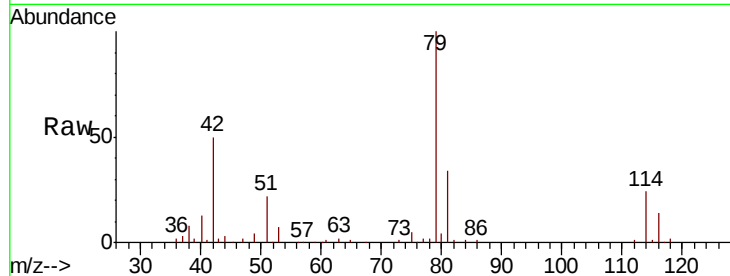




#39
 cis-1,3-Dichloropropene
 Concen: 1.035 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV018741.D
 Acq: 07 Oct 2020 20:35

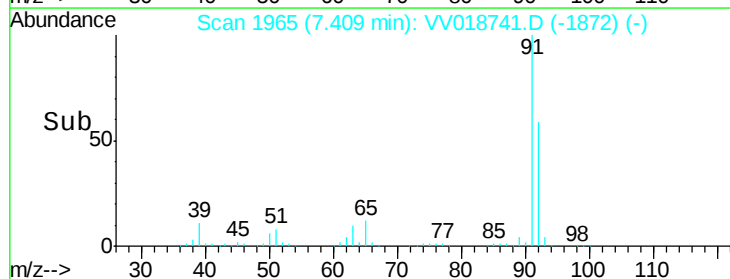
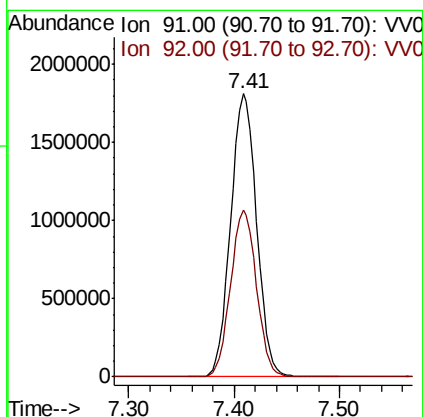
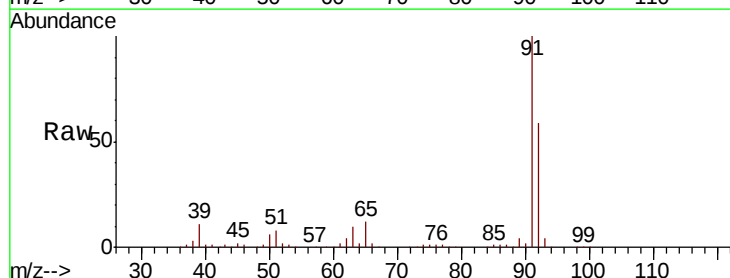
Instrument :
 MSVOA_V
 ClientSampleId :

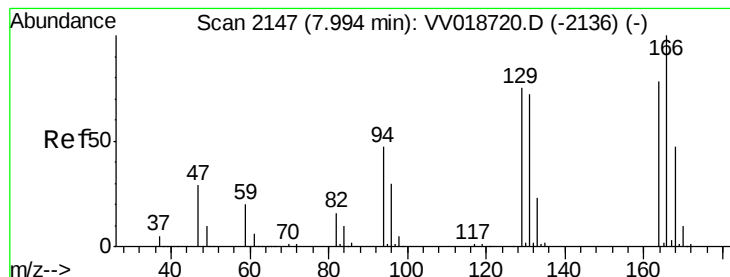
Tot Ion: 75 Resp: 3494
 Ion Ratio Lower Upper
 75 100
 77 42.0 23.0 42.6



#42
 Toluene
 Concen: 339.950 ug/L
 RT: 7.41 min Scan# 1965
 Delta R.T. 0.00 min
 Lab File: VV018741.D
 Acq: 07 Oct 2020 20:35

Tgt Ion: 91 Resp: 3083198
 Ion Ratio Lower Upper
 91 100
 92 58.9 41.6 77.3





#46

Tetrachloroethene

Concen: 0.791 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 1561

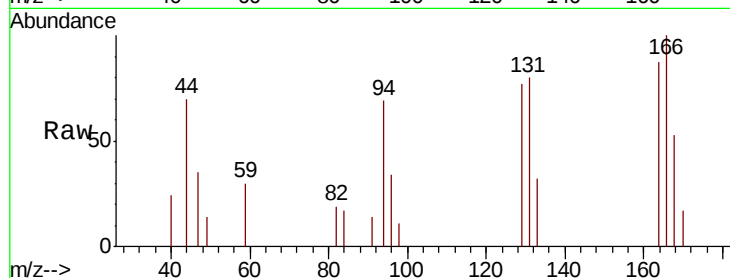
Ion Ratio Lower Upper

164 100

129 88.9 62.8 116.6

131 91.9 60.8 112.8

166 115.3 88.9 165.1

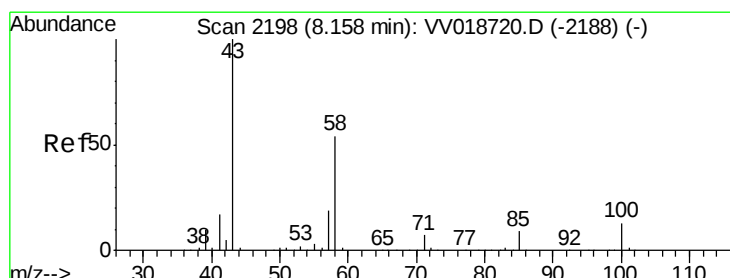
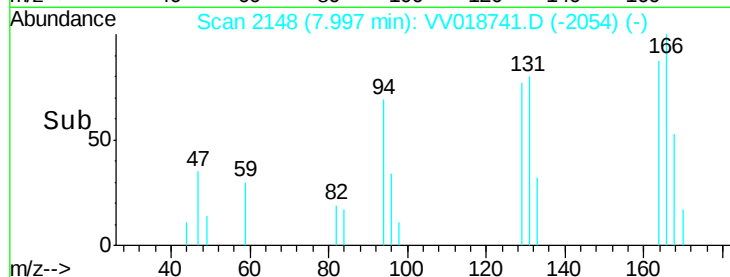
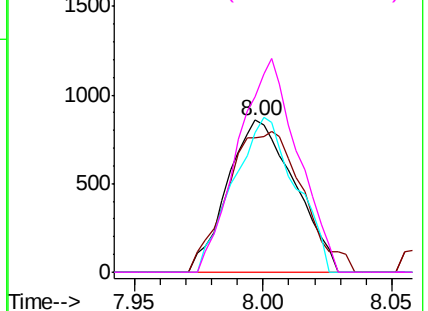


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 4.248 ug/L

RT: 8.11 min Scan# 2182

Delta R.T. -0.05 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Tgt Ion: 43 Resp: 9199

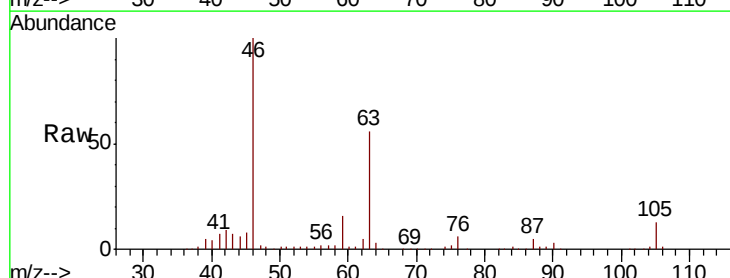
Ion Ratio Lower Upper

43 100

58 30.1 45.1 67.7#

57 27.4 15.7 23.5#

100 0.0 11.0 16.4#

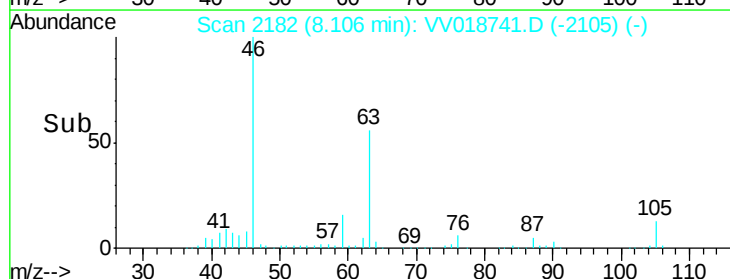
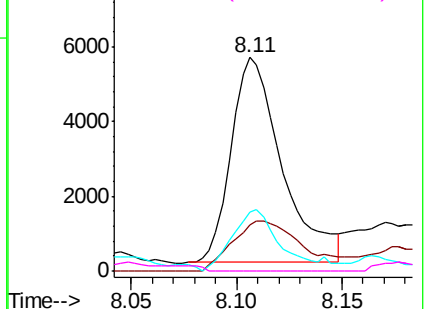


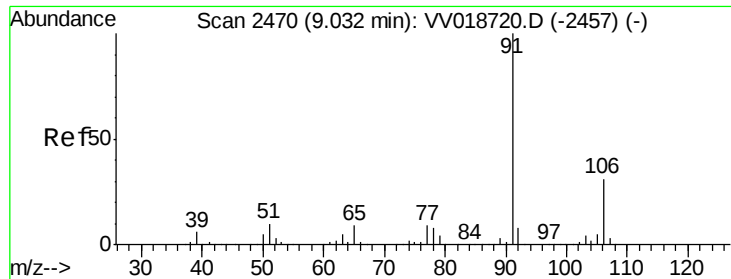
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#52

Ethylbenzene

Concen: 21.160 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Instrument :

MSVOA_V

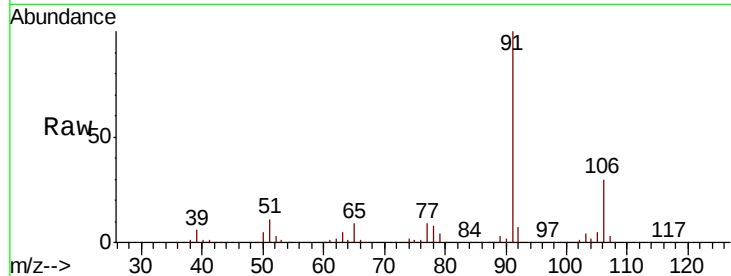
ClientSampled :

Tot Ion: 91 Resp: 214323

Ion Ratio Lower Upper

91 100

106 30.1 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV018720.D (-2457) (-)

Ion 106.00 (105.70 to 106.70): VV018720.D (-2457) (-)

500000

400000

300000

200000

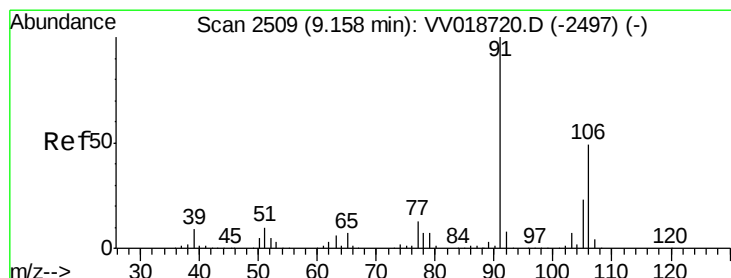
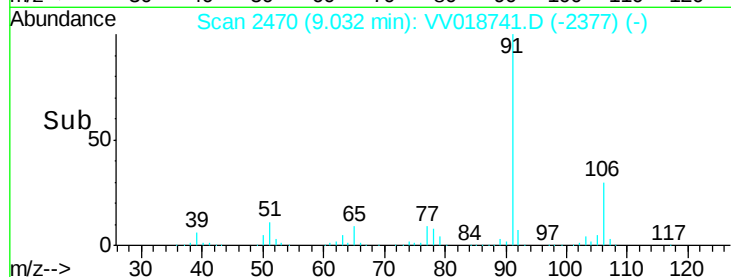
100000

0

9.03

8.95 9.00 9.05 9.10

Time-->



#53

m,p-Xylene

Concen: 86.627 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018741.D

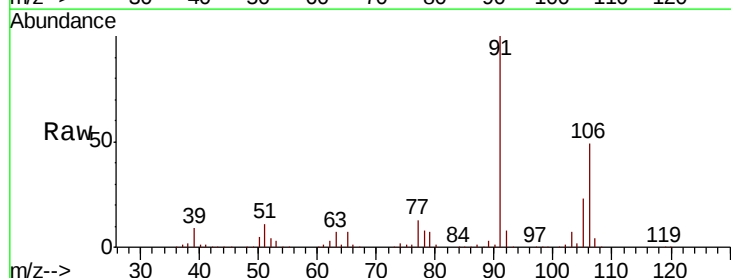
Acq: 07 Oct 2020 20:35

Tgt Ion: 106 Resp: 339088

Ion Ratio Lower Upper

106 100

91 204.6 142.3 264.3



Abundance Ion 106.00 (105.70 to 106.70): VV018720.D (-2497) (-)

Ion 91.00 (90.70 to 91.70): VV018720.D (-2497) (-)

500000

400000

300000

200000

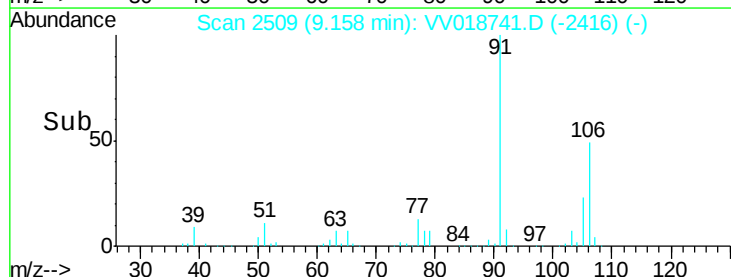
100000

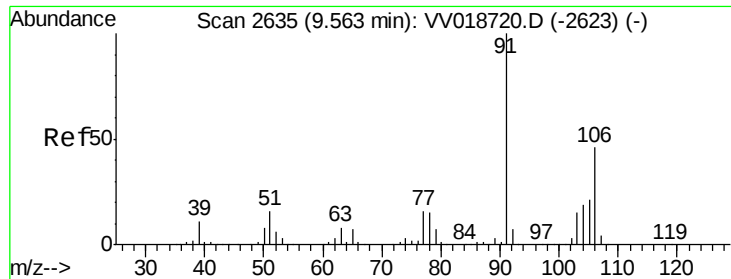
0

9.16

9.05 9.10 9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 39.865 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

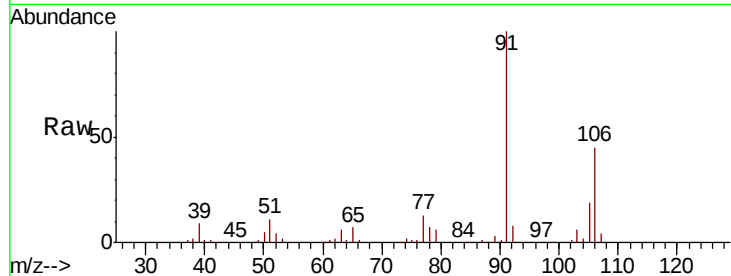
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 147738

Ion Ratio Lower Upper

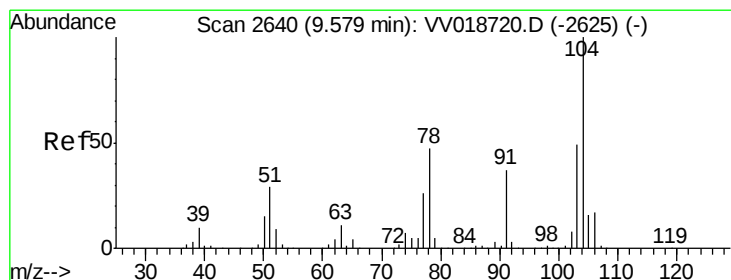
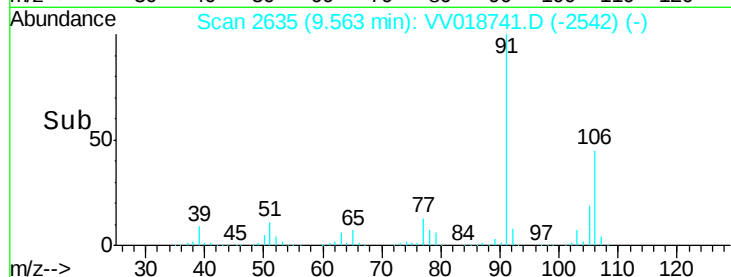
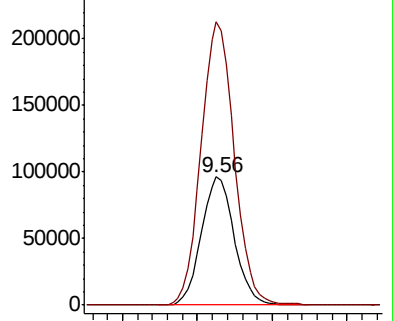
106 100

91 221.0 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.219 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VV018741.D

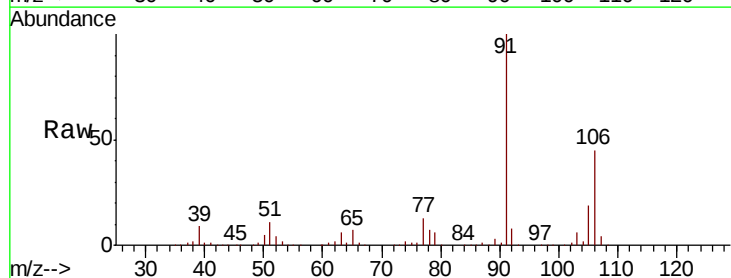
Acq: 07 Oct 2020 20:35

Tgt Ion:104 Resp: 7867

Ion Ratio Lower Upper

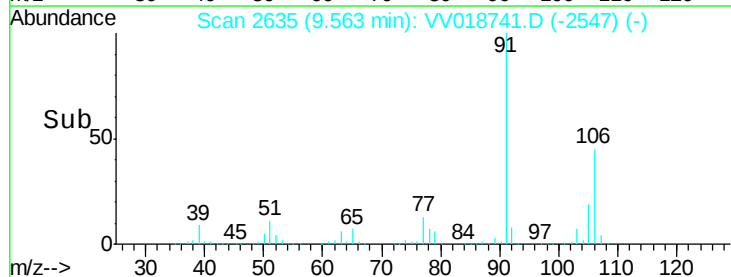
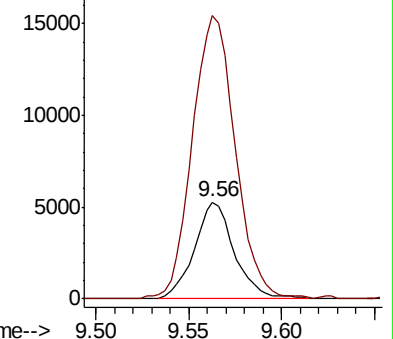
104 100

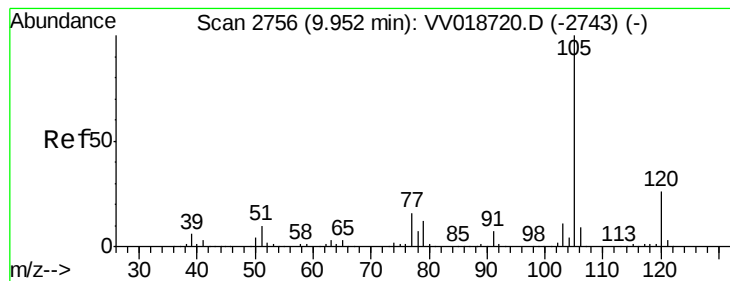
78 291.9 30.2 56.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 12.883 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Instrument :
MSVOA_V
ClientSampled :

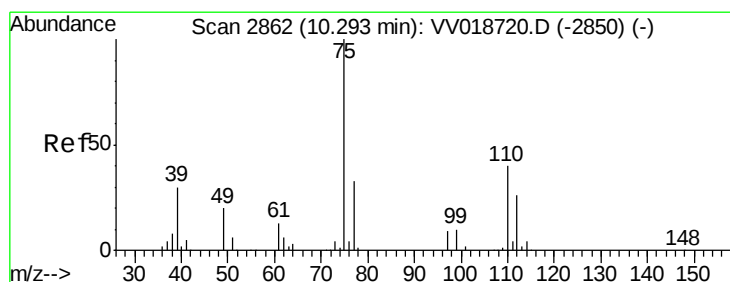
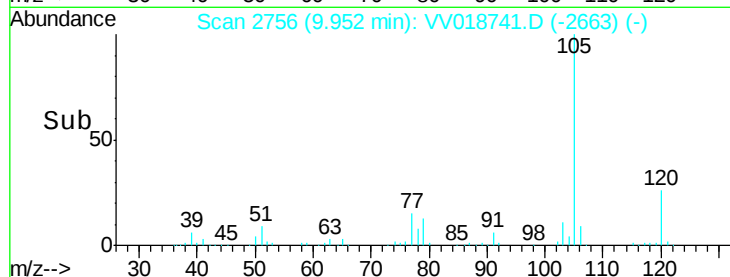
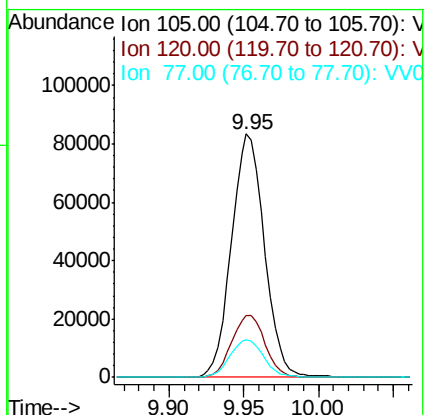
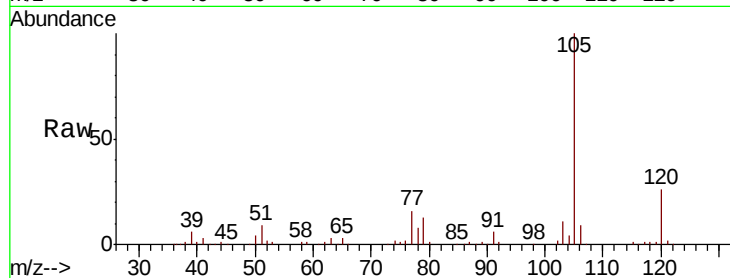
Tot Ion:105 Resp: 128043

Ion Ratio Lower Upper

105 100

120 25.9 21.5 32.3

77 15.9 12.2 18.2



#59

1,2,3-Trichloropropane

Concen: 1.499 ug/L

RT: 10.38 min Scan# 2888

Delta R.T. 0.08 min

Lab File: VV018741.D

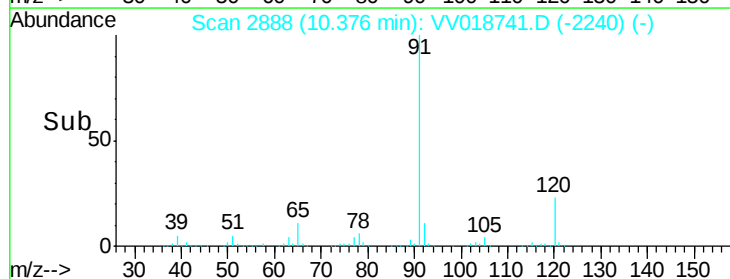
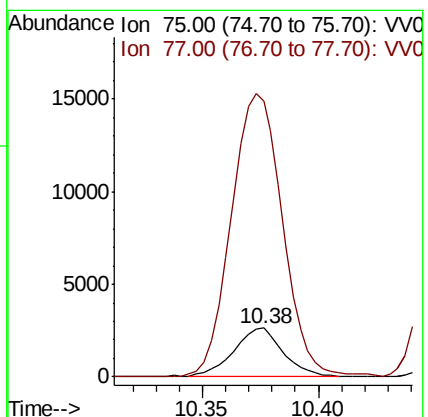
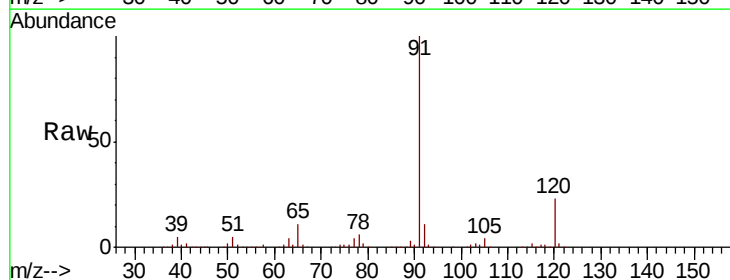
Acq: 07 Oct 2020 20:35

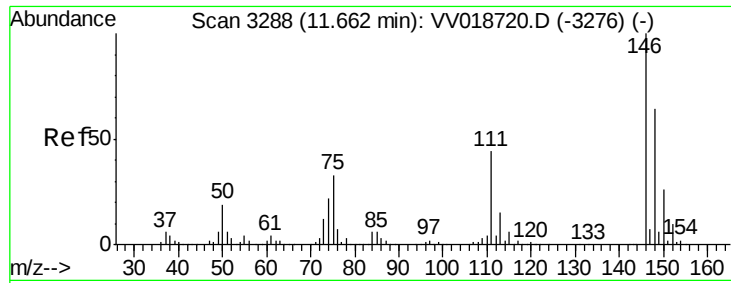
Tgt Ion: 75 Resp: 3921

Ion Ratio Lower Upper

75 100

77 598.2 25.4 38.0#





#65

1,2-Dichlorobenzene

Concen: 2.102 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Instrument :

MSVOA_V

ClientSampled :

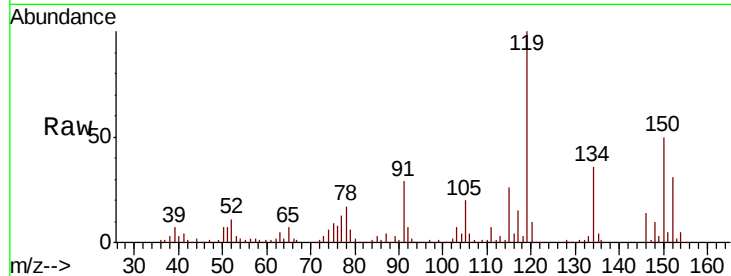
Tot Ion:146 Resp: 12096

Ion Ratio Lower Upper

146 100

111 51.0 32.8 49.2#

148 69.0 51.9 77.9

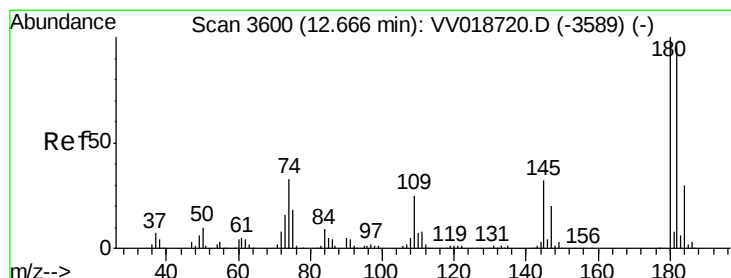
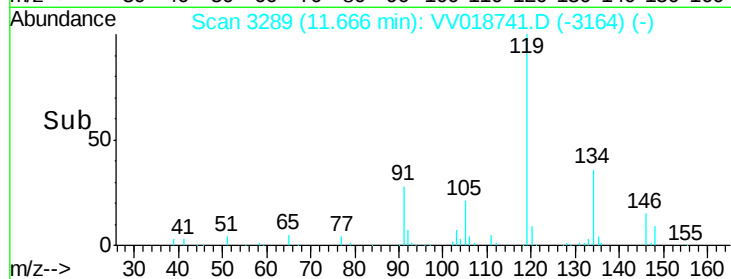
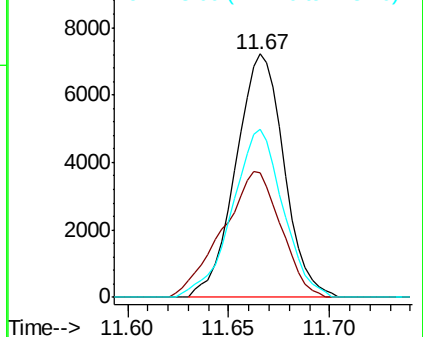


Abundance

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



#67

1,3,5-Trichlorobenzene

Concen: 6.914 ug/L

RT: 13.28 min Scan# 3792

Delta R.T. 0.62 min

Lab File: VV018741.D

Acq: 07 Oct 2020 20:35

Tgt Ion:180 Resp: 27863

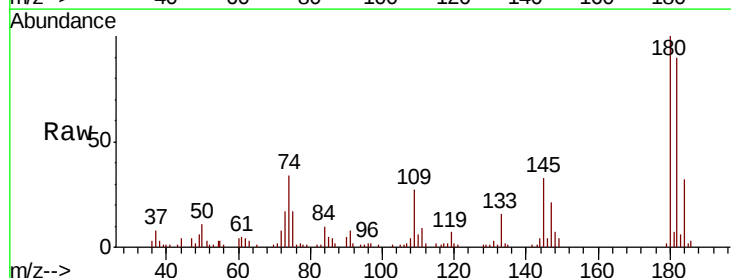
Ion Ratio Lower Upper

180 100

182 92.7 77.1 115.7

184 31.4 24.3 36.5

145 32.1 22.9 34.3



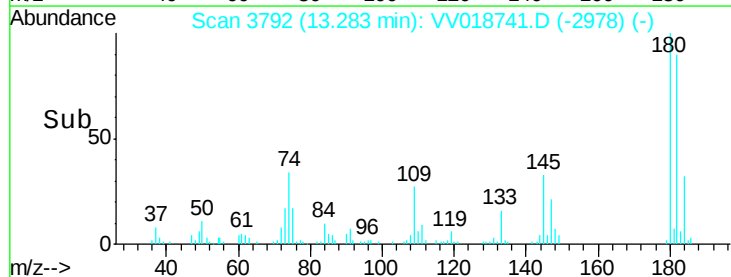
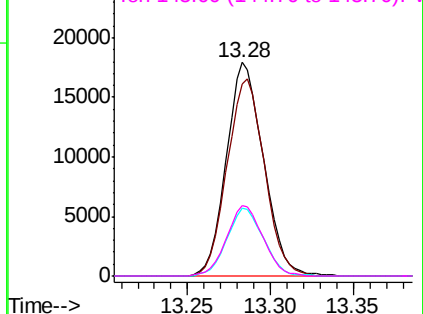
Abundance

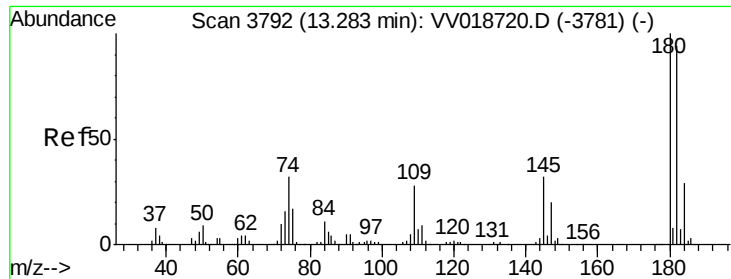
Ion 180.00 (179.70 to 180.70): V

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

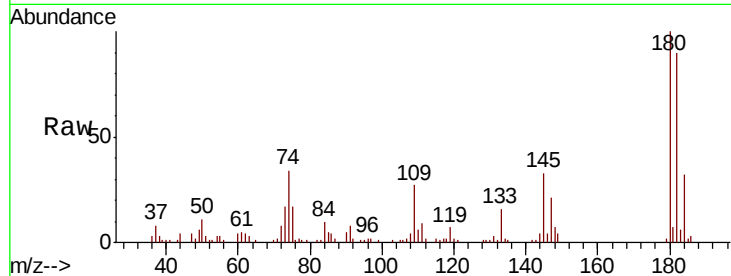




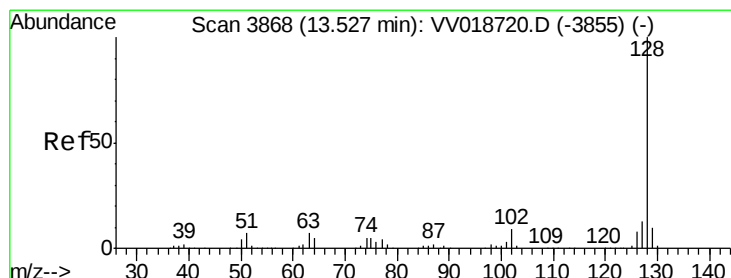
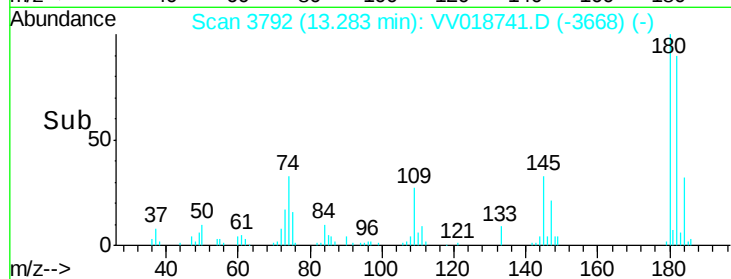
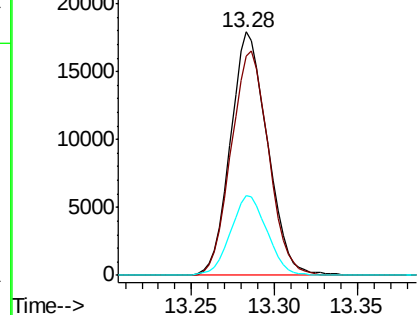
#68
 1,2,4-trichlorobenzene
 Concen: 7.430 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV018741.D
 Acq: 07 Oct 2020 20:35

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 27863
 Ion Ratio Lower Upper
 180 100
 182 92.7 76.3 114.5
 145 32.1 23.6 35.4

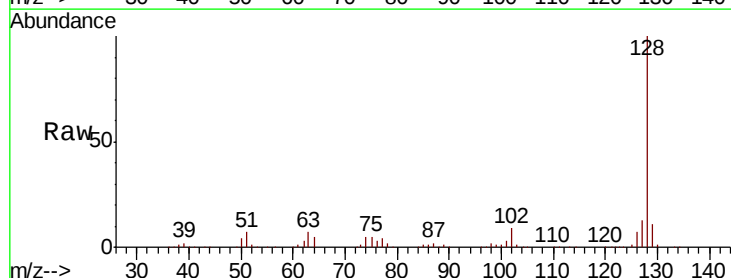


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

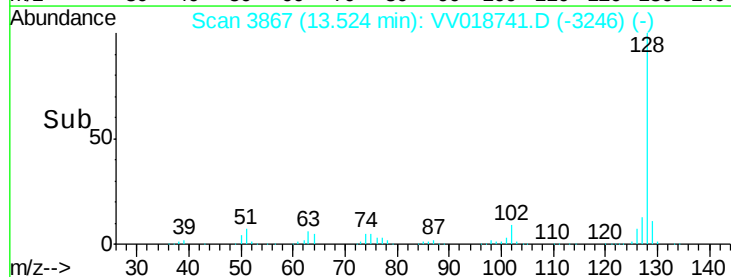
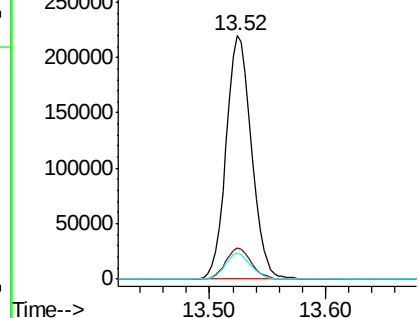


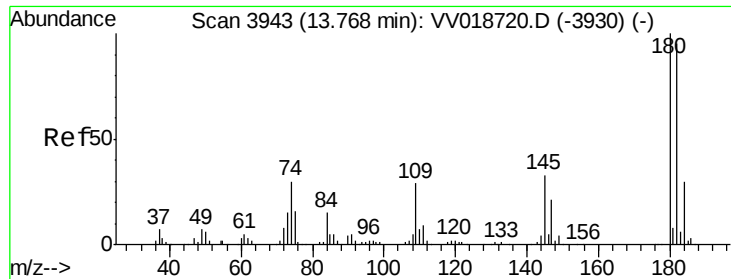
#69
 Naphthalene
 Concen: 30.806 ug/L
 RT: 13.52 min Scan# 3867
 Delta R.T. -0.00 min
 Lab File: VV018741.D
 Acq: 07 Oct 2020 20:35

Tgt Ion:128 Resp: 330689
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.3 15.5
 129 10.8 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

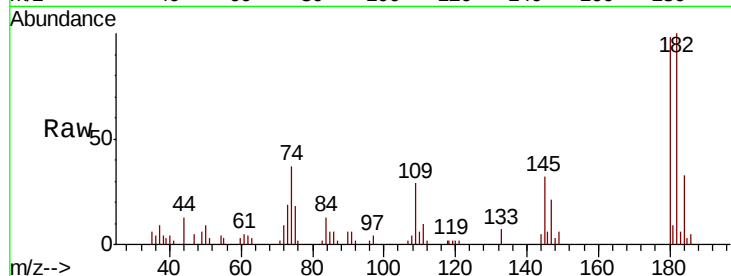




#70
 1,2,3-Trichlorobenzene
 Concen: 2.600 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018741.D
 Acq: 07 Oct 2020 20:35

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.1	115.7
145	33.1	25.1	37.7



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

