

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
 Data File : VV018740.D
 Acq On : 07 Oct 2020 20:11
 Operator : SY/MD
 Sample : L4239-09 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 06:41:20 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	334062	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	285448	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	178730	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76499	39.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.10%
7) Chloroethane-d5	1.58	69	68632	42.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.74%
11) 1,1-Dichloroethene-d2	2.12	63	129604	32.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.94%
21) 2-Butanone-d5	3.91	46	115092	78.75	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	78.75%
24) Chloroform-d	4.38	84	158872	37.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.00%
26) 1,2-Dichloroethane-d4	5.06	65	123011	45.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.48%
32) Benzene-d6	5.07	84	344449	47.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.28%
36) 1,2-Dichloropropane-d6	6.09	67	95235	43.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.18%
41) Toluene-d8	7.34	98	273061	40.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.28%
43) trans-1,3-Dichloropropene-	7.64	79	50313	42.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.26%
47) 2-Hexanone-d5	8.11	63	69524	83.79	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	83.79%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	122685	42.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.72%
64) 1,2-Dichlorobenzene-d4	11.65	152	139939	40.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.42%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.13	96	6381	3.060	ug/L #	1
13) Acetone	2.19	43	7960	6.304	ug/L	91
19) 1,1-Dichloroethane	3.22	63	7014	1.679	ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	423422	166.966	ug/L	95
29) Cyclohexane	4.70	56	90728	27.868	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	629249	177.567	ug/L	98
39) cis-1,3-Dichloropropene	7.01	75	3510	1.040	ug/L	87
42) Toluene	7.41	91	8533732	940.670	ug/L	98
51) Chlorobenzene	8.90	112	9260	1.509	ug/L	97
52) Ethylbenzene	9.03	91	241928	23.879	ug/L	98
53) m,p-Xylene	9.16	106	346150	88.408	ug/L	100
54) o-xylene	9.56	106	190830	51.479	ug/L	98
55) Styrene	9.56	104	10863	1.683	ug/L #	1
56) Isopropylbenzene	9.95	105	75589	7.603	ug/L	99
59) 1,2,3-Trichloropropane	11.27	75	23994	9.168	ug/L	96
65) 1,2-Dichlorobenzene	11.67	146	11153	1.949	ug/L	89
67) 1,3,5-Trichlorobenzene	13.28	180	34581	8.631	ug/L	96

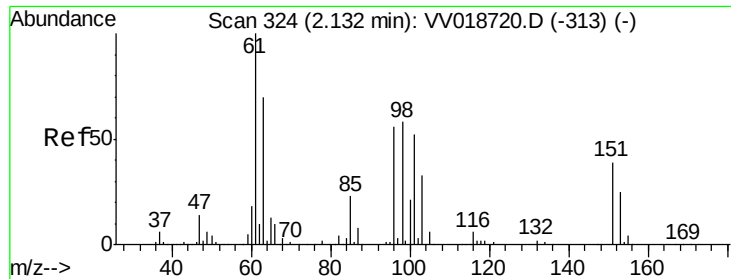
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
Data File : VV018740.D
Acq On : 07 Oct 2020 20:11
Operator : SY/MD
Sample : L4239-09 20X
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Oct 08 06:41:20 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)
68) 1,2,4-trichlorobenzene	13.28	180	34581	9.275	ug/L	96
69) Naphthalene	13.52	128	231055	21.649	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	13629	3.641	ug/L	99

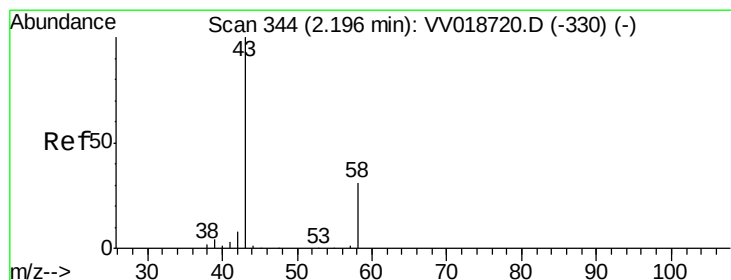
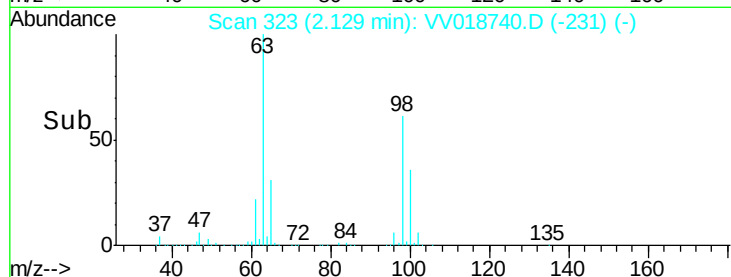
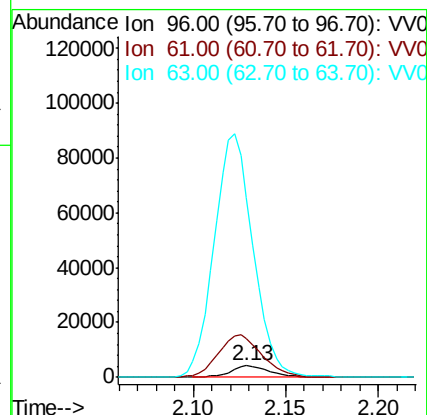
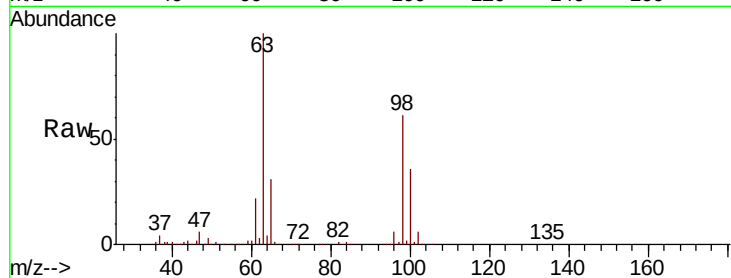
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#12
 1,1-Dichloroethene
 Concen: 3.060 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. -0.00 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

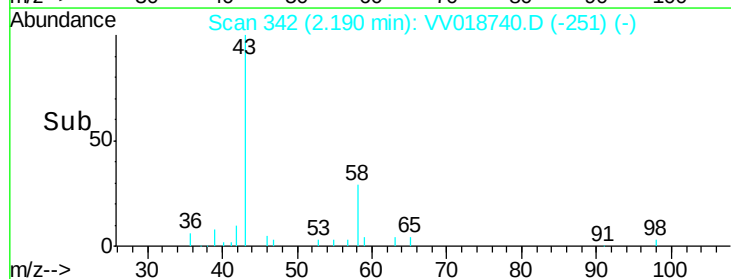
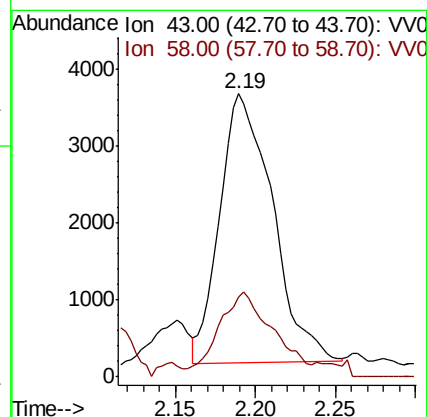
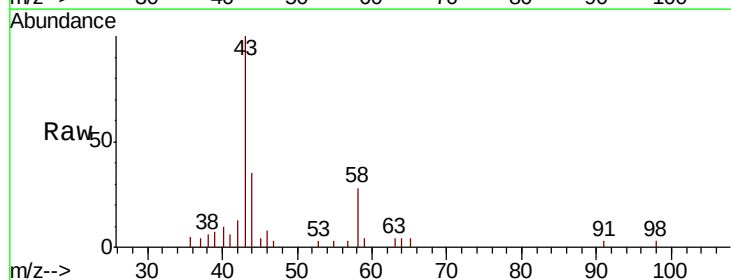
Instrument :
 MSVOA_V
 ClientSampled :

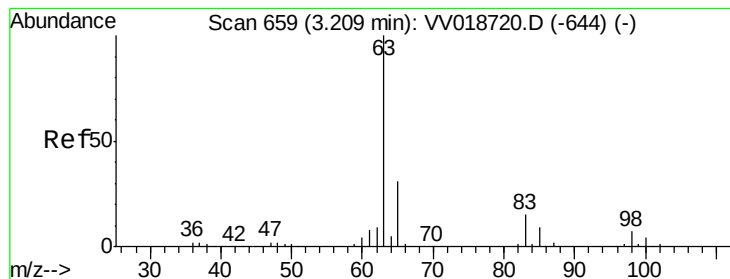
Tot Ion: 96 Resp: 6381
 Ion Ratio Lower Upper
 96 100
 61 342.3 122.8 228.1#
 63 1589.1 91.9 170.7#



#13
 Acetone
 Concen: 6.304 ug/L
 RT: 2.19 min Scan# 342
 Delta R.T. -0.01 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

Tgt Ion: 43 Resp: 7960
 Ion Ratio Lower Upper
 43 100
 58 27.1 0.0 64.0





#19

1,1-Dichloroethane

Concen: 1.679 ug/L

RT: 3.22 min Scan# 662

Delta R.T. 0.01 min

Lab File: VV018740.D

Acq: 07 Oct 2020 20:11

Instrument :

MSVOA_V

ClientSampleId :

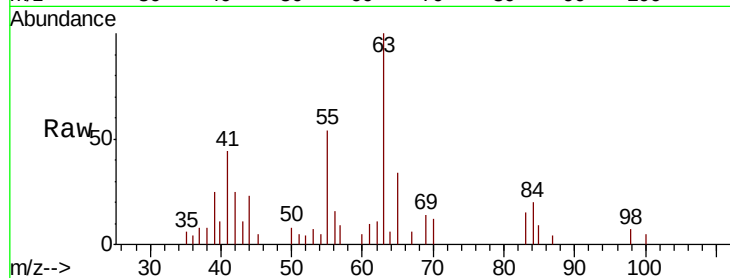
Tot Ion: 63 Resp: 7014

Ion Ratio Lower Upper

63 100

65 33.9 22.3 41.3

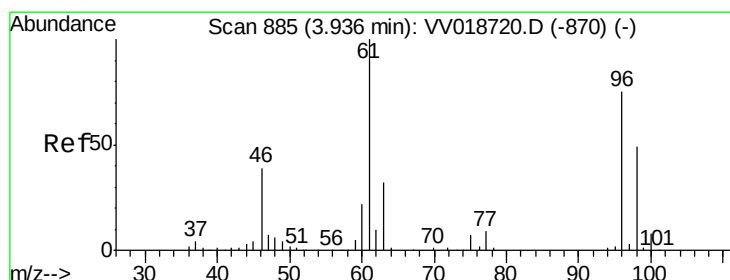
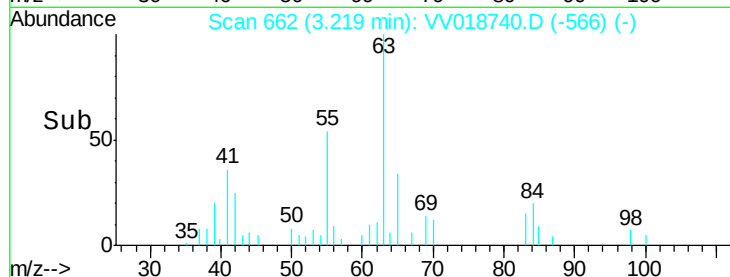
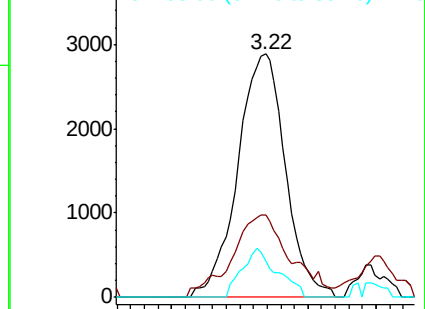
83 14.7 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VV018740.D (-566) (-)

Ion 65.00 (64.70 to 65.70): VV018740.D (-566) (-)

Ion 83.00 (82.70 to 83.70): VV018740.D (-566) (-)



#20

cis-1,2-Dichloroethene

Concen: 166.966 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV018740.D

Acq: 07 Oct 2020 20:11

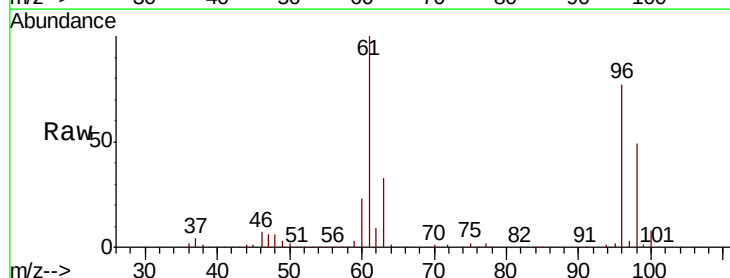
Tgt Ion: 96 Resp: 423422

Ion Ratio Lower Upper

96 100

61 129.7 86.8 161.2

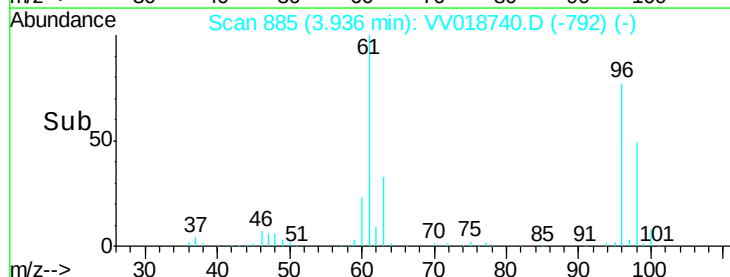
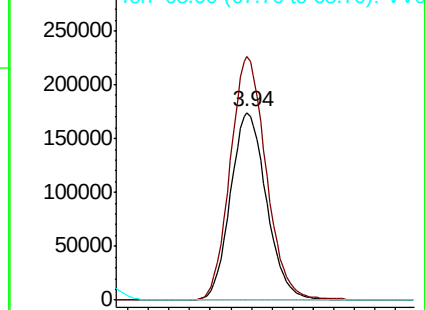
68 0.0 0.0 0.0

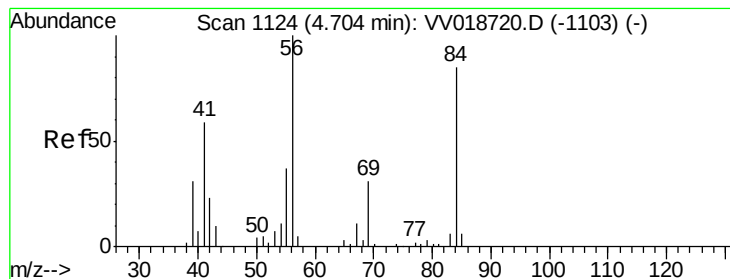


Abundance Ion 96.00 (95.70 to 96.70): VV018740.D (-792) (-)

Ion 61.00 (60.70 to 61.70): VV018740.D (-792) (-)

Ion 68.00 (67.70 to 68.70): VV018740.D (-792) (-)

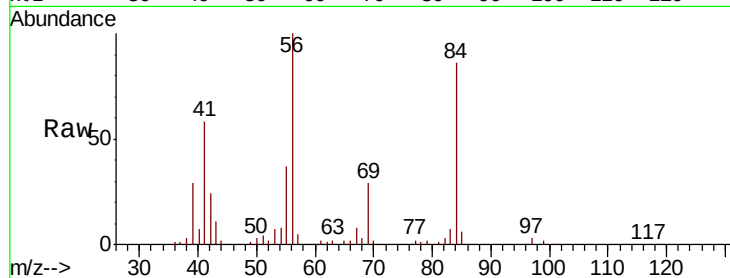




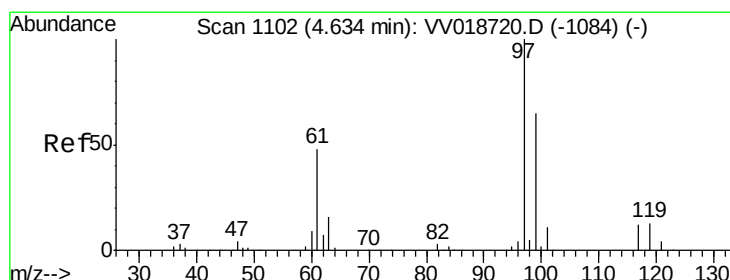
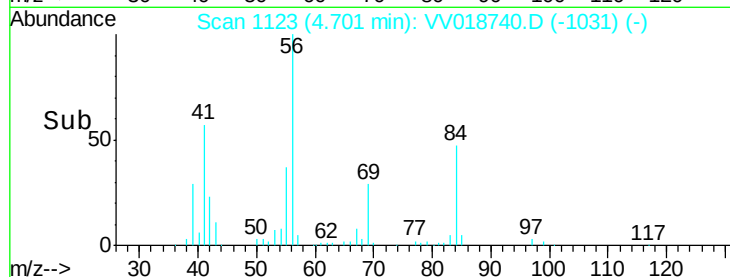
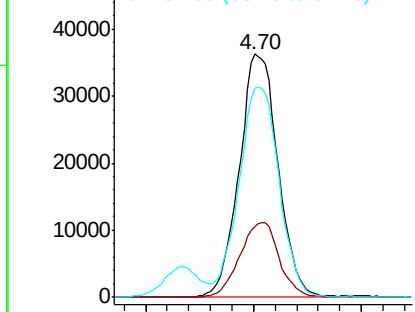
#29
Cyclohexane
Concen: 27.868 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 56 Resp: 90728
Ion Ratio Lower Upper
56 100
69 31.2 24.8 37.2
84 89.6 72.2 108.4

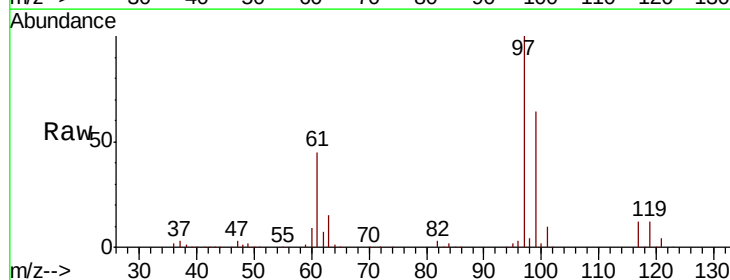


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

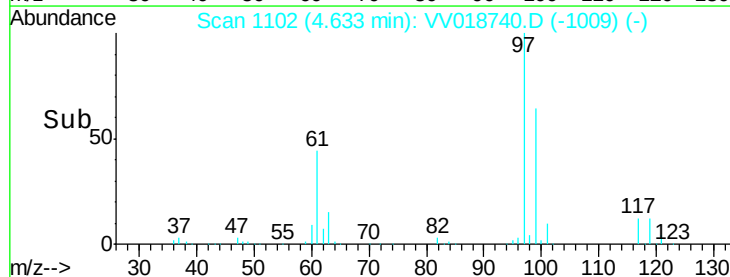
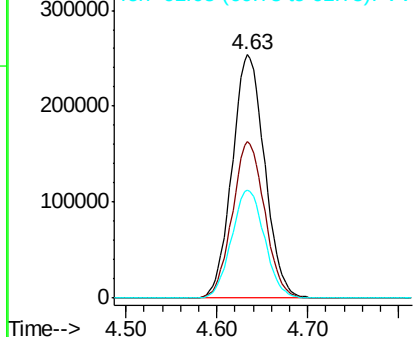


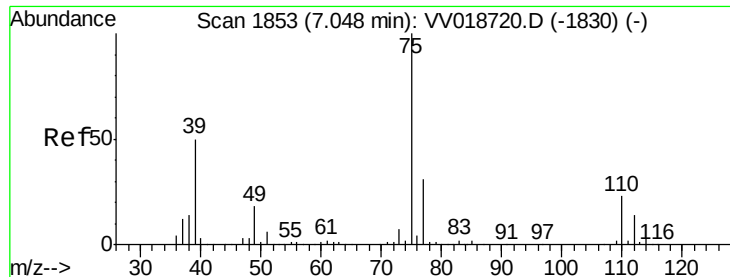
#30
1,1,1-Trichloroethane
Concen: 177.567 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

Tgt Ion: 97 Resp: 629249
Ion Ratio Lower Upper
97 100
99 64.0 51.4 77.0
61 45.1 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0

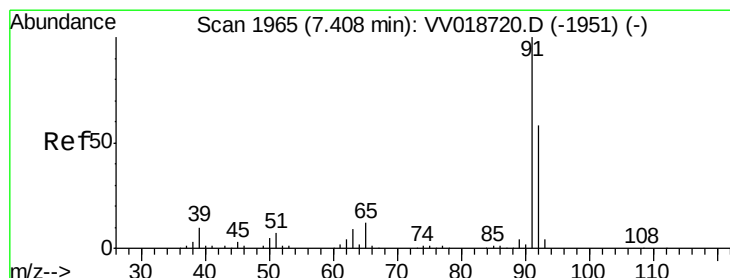
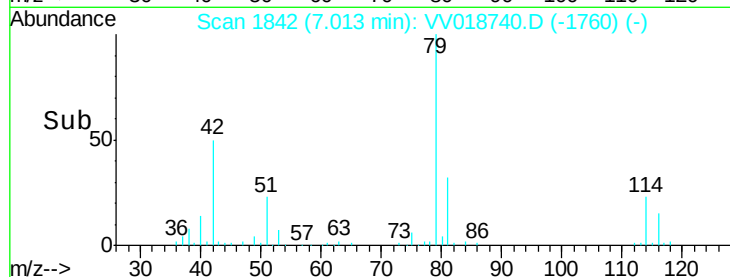
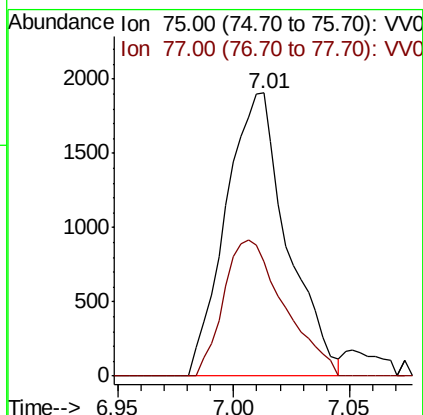
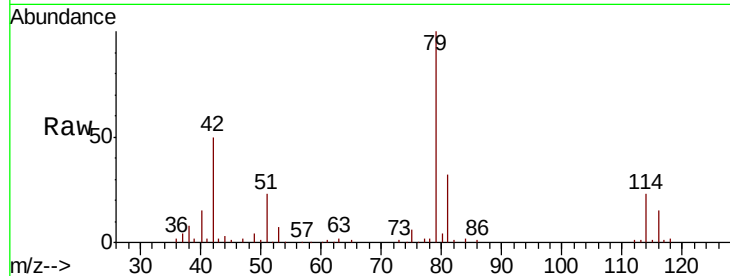




#39
 cis-1,3-Dichloropropene
 Concen: 1.040 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

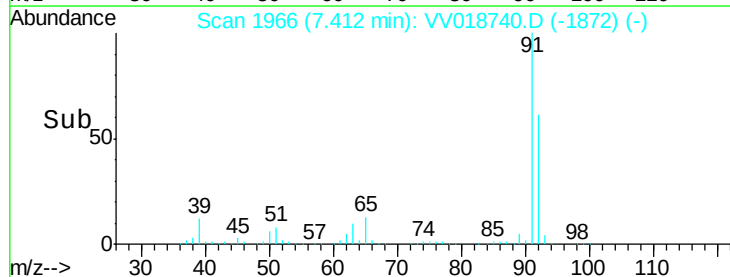
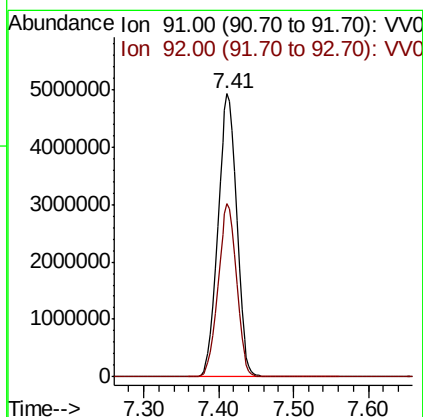
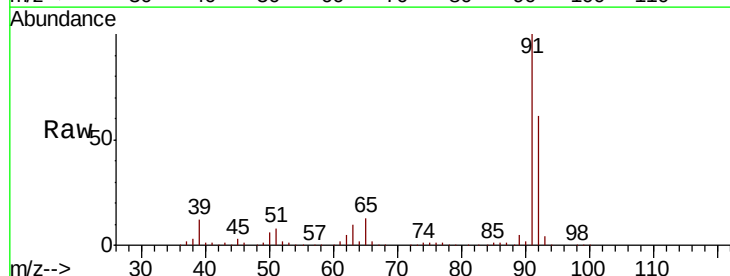
Instrument :
 MSVOA_V
 ClientSampleId :

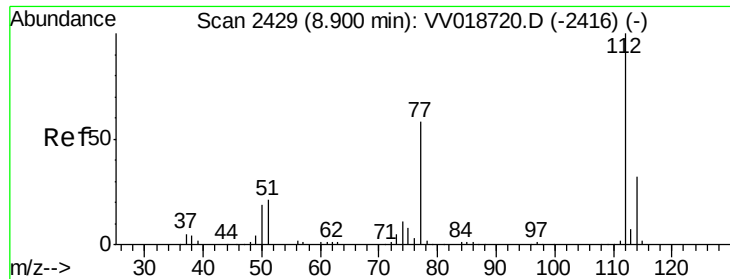
Tot Ion: 75 Resp: 3510
 Ion Ratio Lower Upper
 75 100
 77 40.4 23.0 42.6



#42
 Toluene
 Concen: 940.670 ug/L
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

Tgt Ion: 91 Resp: 8533732
 Ion Ratio Lower Upper
 91 100
 92 61.0 41.6 77.3

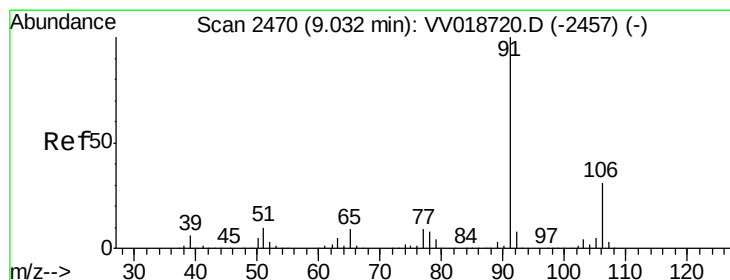
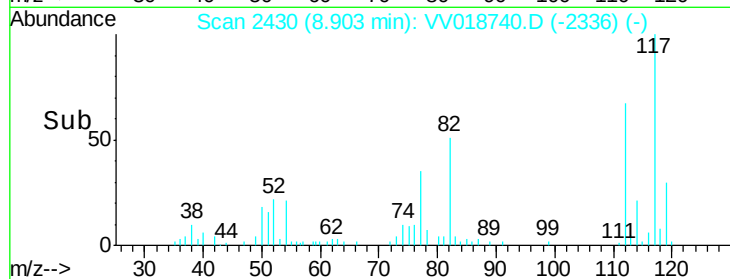
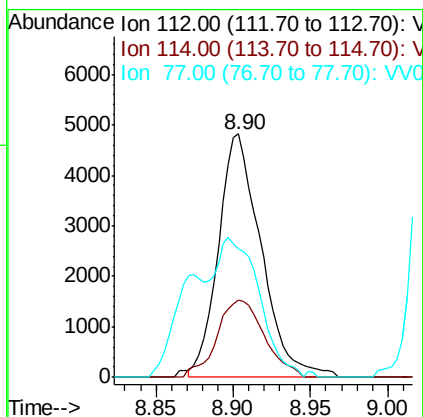
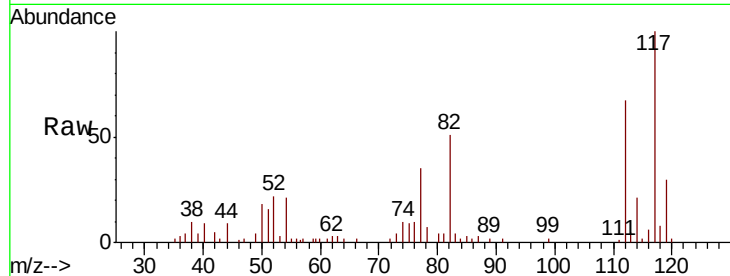




#51
Chlorobenzene
Concen: 1.509 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

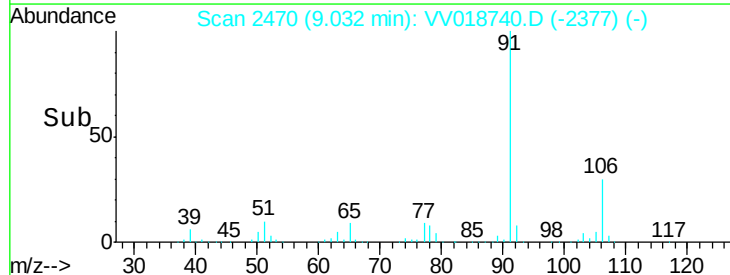
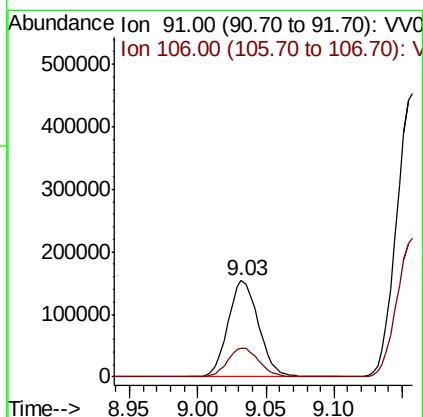
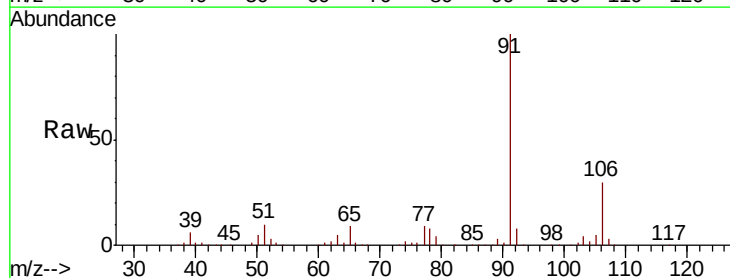
Instrument :
MSVOA_V
ClientSampleId :

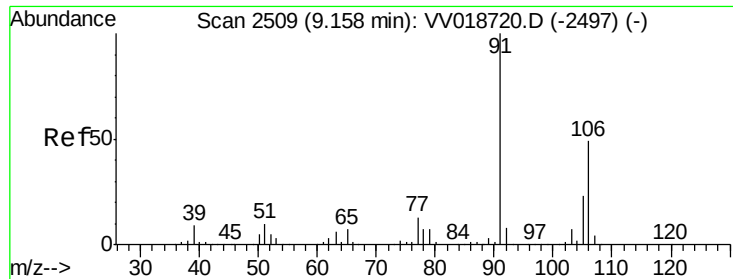
Tot Ion:112 Resp: 9260
Ion Ratio Lower Upper
112 100
114 31.5 22.4 41.6
77 52.5 44.8 67.2



#52
Ethylbenzene
Concen: 23.879 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

Tgt Ion: 91 Resp: 241928
Ion Ratio Lower Upper
91 100
106 30.3 21.9 40.7

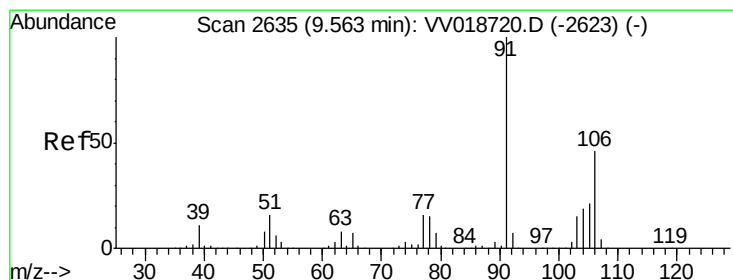
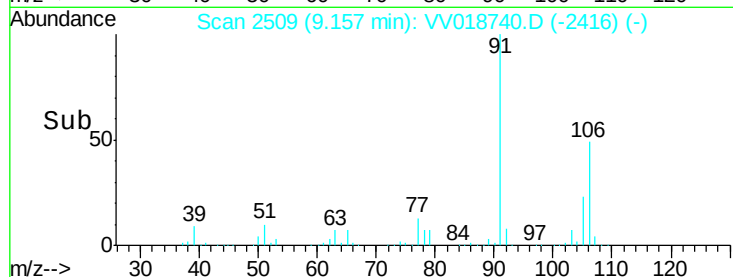
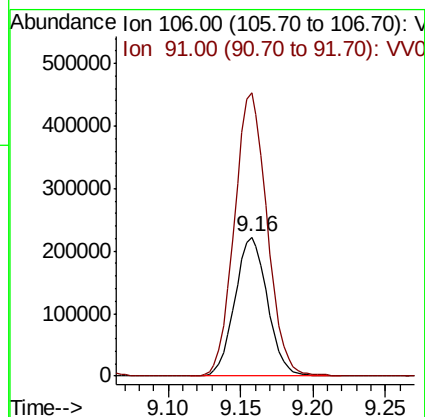
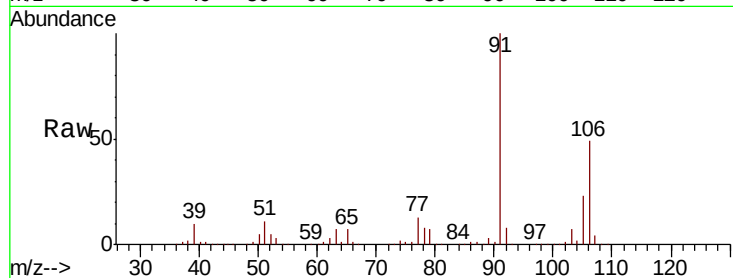




#53
m,p-Xylene
Concen: 88.408 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

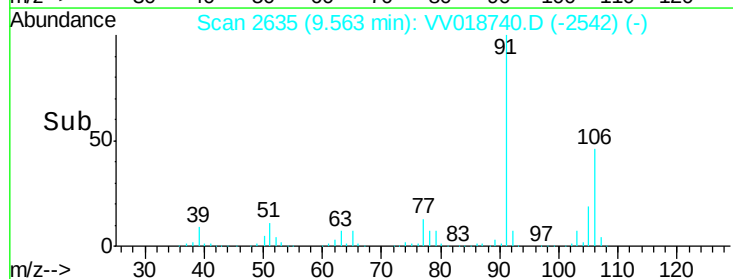
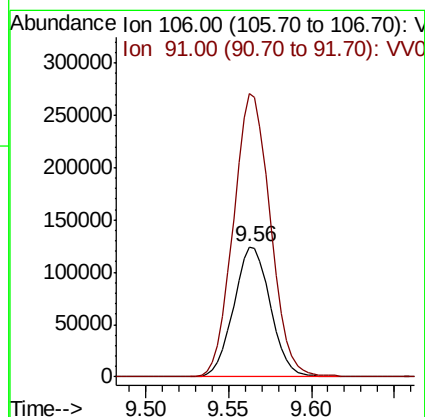
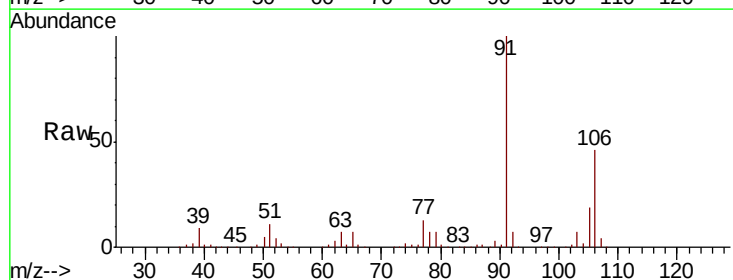
Instrument :
MSVOA_V
ClientSampleId :

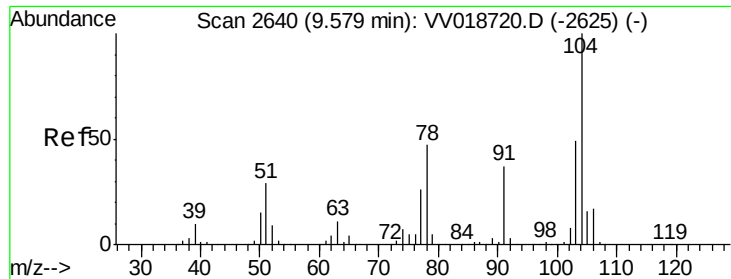
Tot Ion:106 Resp: 346150
Ion Ratio Lower Upper
106 100
91 203.8 142.3 264.3



#54
o-xylene
Concen: 51.479 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

Tgt Ion:106 Resp: 190830
Ion Ratio Lower Upper
106 100
91 218.1 151.0 280.4

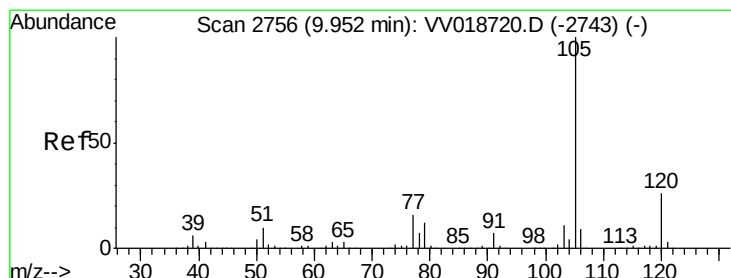
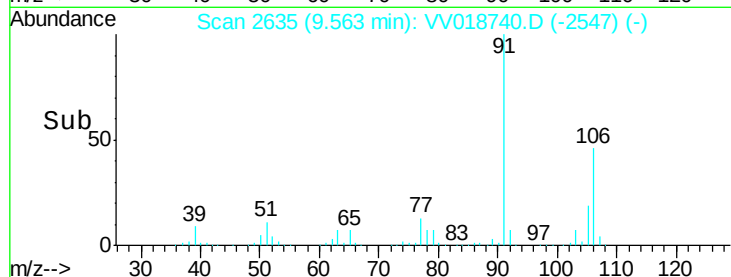
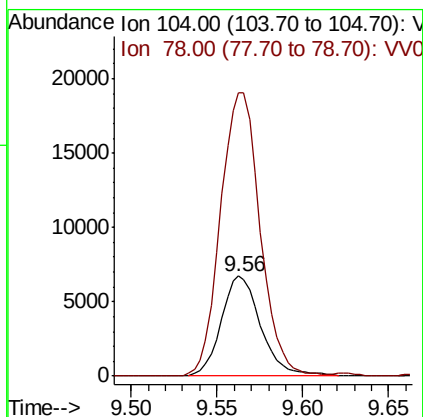
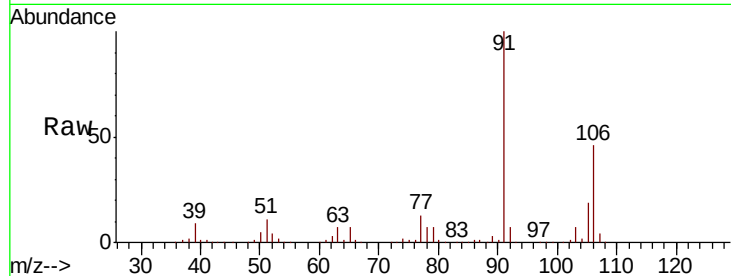




#55
Stvrene
Concen: 1.683 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

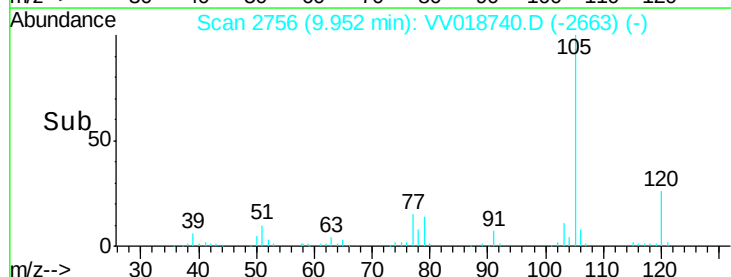
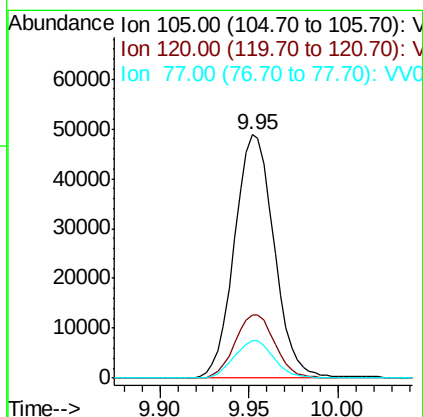
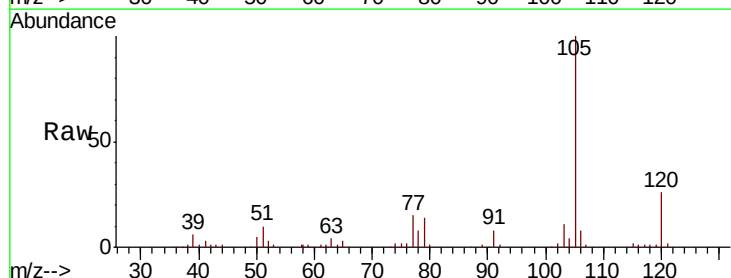
Instrument :
MSVOA_V
ClientSampled :

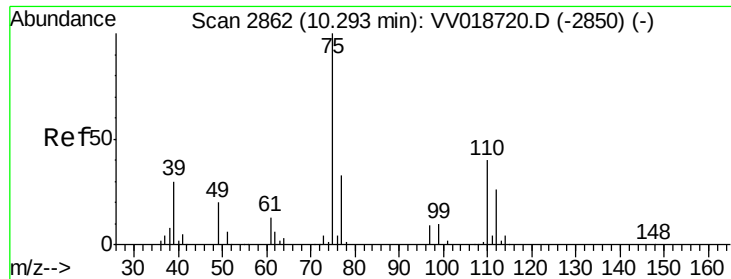
Tot Ion:104 Resp: 10863
Ion Ratio Lower Upper
104 100
78 282.2 30.2 56.2#



#56
Isopropylbenzene
Concen: 7.603 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VV018740.D
Acq: 07 Oct 2020 20:11

Tgt Ion:105 Resp: 75589
Ion Ratio Lower Upper
105 100
120 26.2 21.5 32.3
77 15.6 12.2 18.2

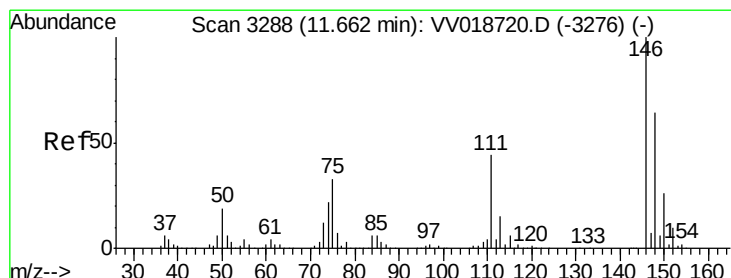
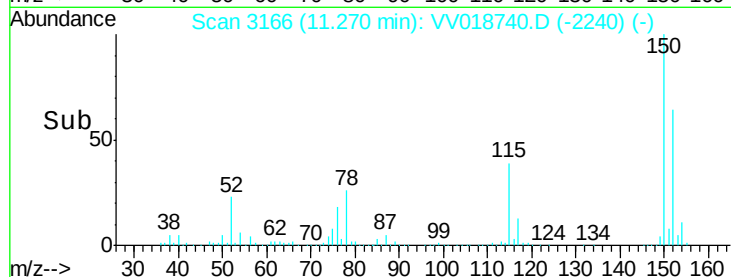
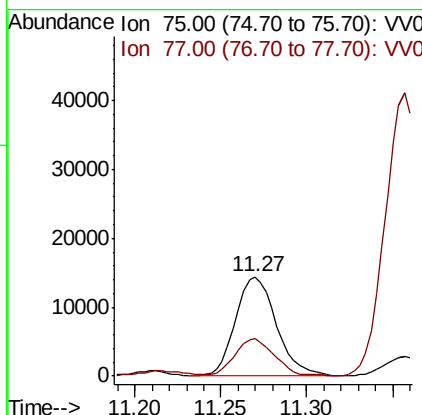
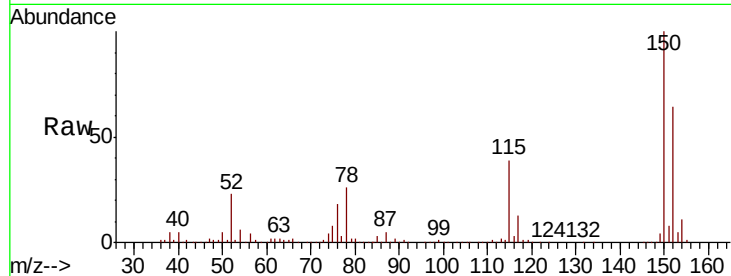




#59
 1,2,3-Trichloropropane
 Concen: 9.168 ug/L
 RT: 11.27 min Scan# 3166
 Delta R.T. 0.98 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

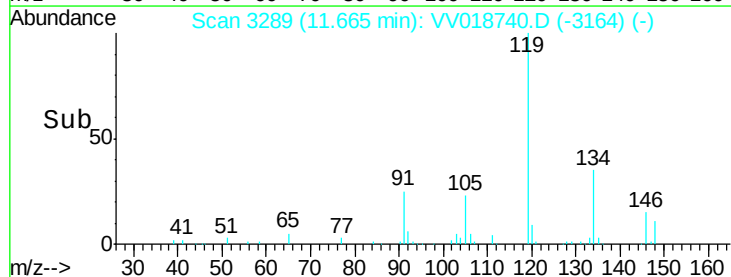
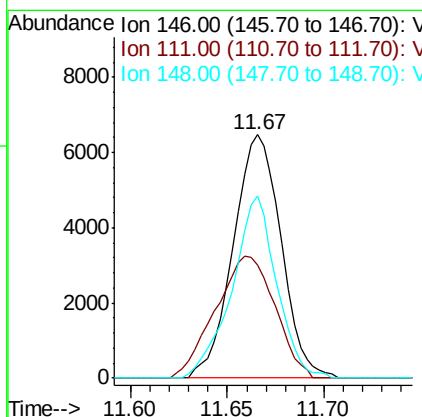
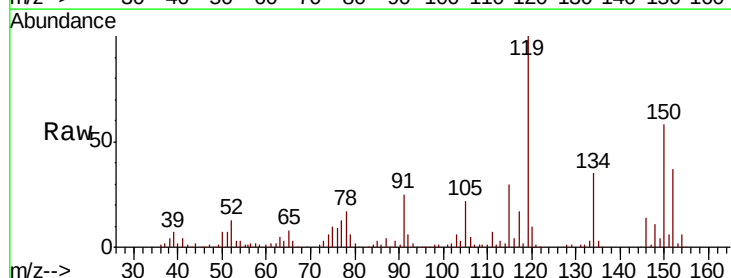
Instrument :
 MSVOA_V
 ClientSampled :

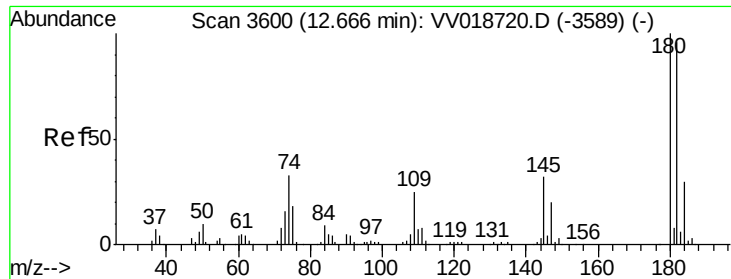
Tot Ion: 75 Resp: 23994
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.4 38.0



#65
 1,2-Dichlorobenzene
 Concen: 1.949 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

Tgt Ion: 146 Resp: 11153
 Ion Ratio Lower Upper
 146 100
 111 46.4 32.8 49.2
 148 74.7 51.9 77.9

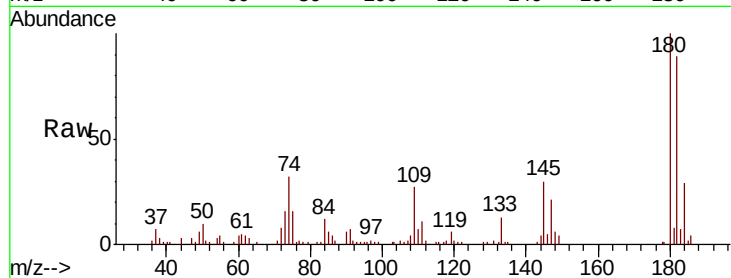




#67
 1,3,5-Trichlorobenzene
 Concen: 8.631 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.62 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.7	77.1	115.7
184	30.7	24.3	36.5
145	33.1	22.9	34.3



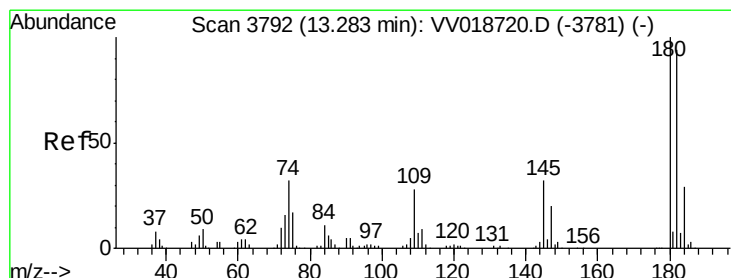
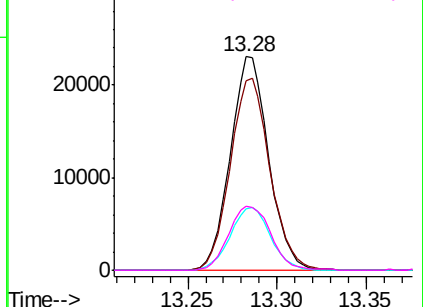
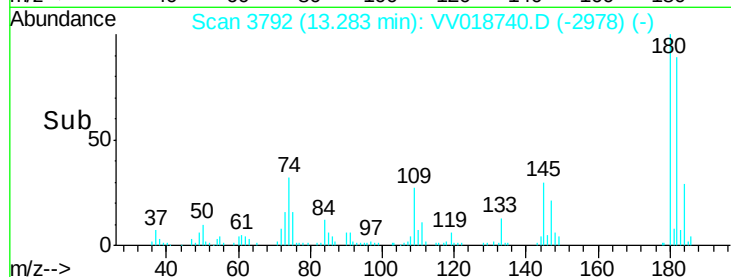
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

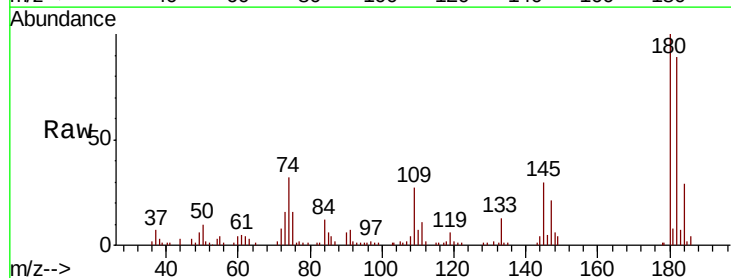
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 9.275 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV018740.D
 Acq: 07 Oct 2020 20:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	76.3	114.5
145	33.1	23.6	35.4

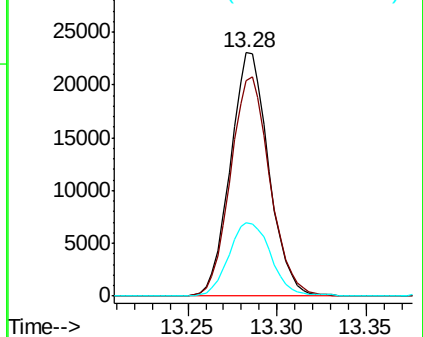
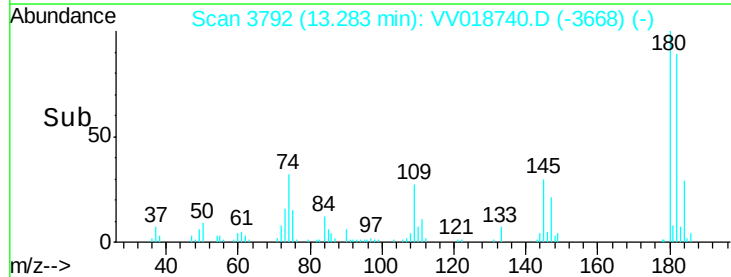


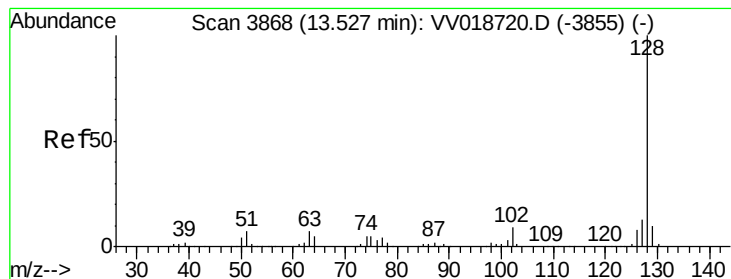
Abundance

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: 21.649 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV018740.D

Acq: 07 Oct 2020 20:11

Instrument :

MSVOA_V

ClientSampleId :

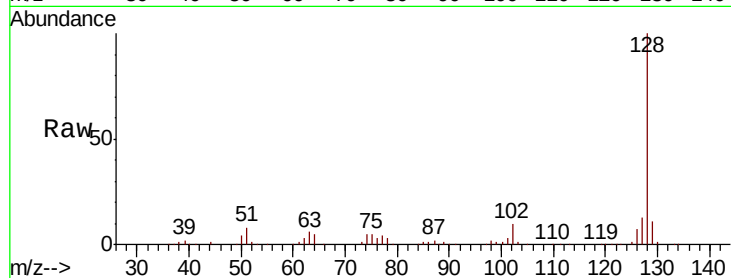
Tot Ion:128 Resp: 231055

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

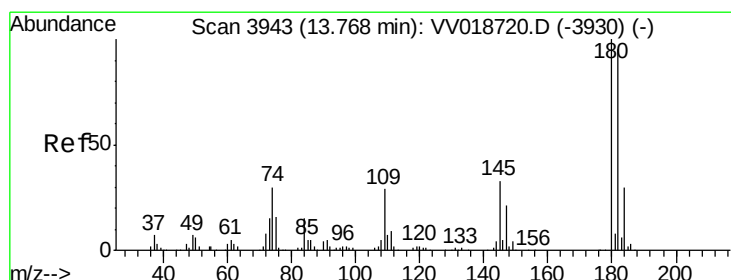
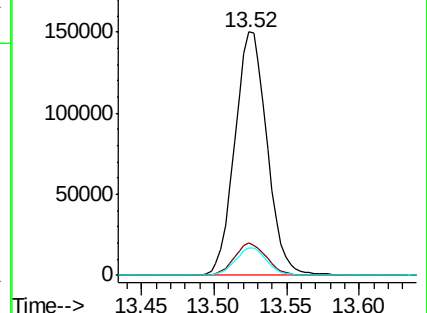
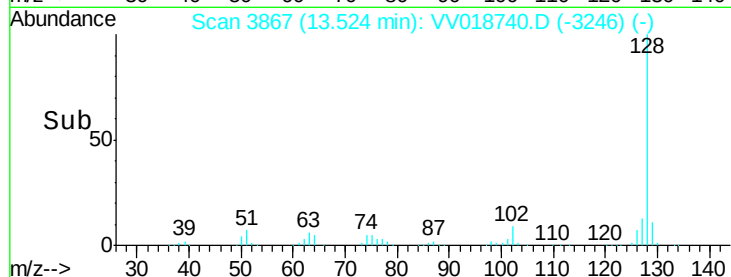
129 11.2 8.6 12.8



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: 3.641 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV018740.D

Acq: 07 Oct 2020 20:11

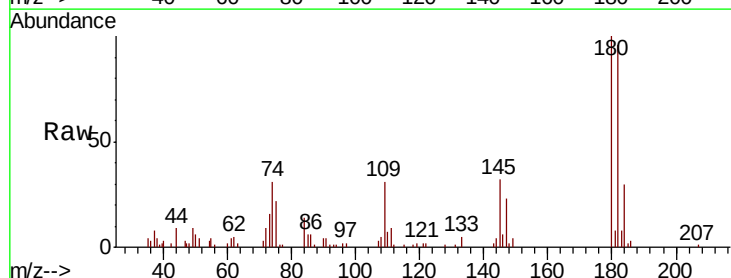
Tgt Ion:180 Resp: 13629

Ion Ratio Lower Upper

180 100

182 96.3 77.1 115.7

145 32.7 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

