

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
 Data File : VV018745.D
 Acq On : 07 Oct 2020 22:09
 Operator : SY/MD
 Sample : L4239-14 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 06:42:20 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	358247	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	291743	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	151087	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76190	36.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.52%
7) Chloroethane-d5	1.58	69	68048	39.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.34%
11) 1,1-Dichloroethene-d2	2.12	63	130266	30.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.86%
21) 2-Butanone-d5	3.91	46	138900	88.63	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.63%
24) Chloroform-d	4.37	84	186679	41.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.18%
26) 1,2-Dichloroethane-d4	5.06	65	128063	44.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.80%
32) Benzene-d6	5.07	84	372729	50.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.88%
36) 1,2-Dichloropropane-d6	6.09	67	103251	46.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.48%
41) Toluene-d8	7.34	98	278696	40.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.18%
43) trans-1,3-Dichloropropene-	7.64	79	48664	40.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.70%
47) 2-Hexanone-d5	8.11	63	67102	79.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	79.12%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	123889	41.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.70%
64) 1,2-Dichlorobenzene-d4	11.65	152	122862	42.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.56%

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	2.13	96	7695	3.441 ug/L #	1
19) 1,1-Dichloroethane	3.22	63	11428	2.551 ug/L	94
20) cis-1,2-Dichloroethene	3.94	96	454591	167.155 ug/L	94
29) Cyclohexane	4.70	56	49462	14.865 ug/L	97
30) 1,1,1-Trichloroethane	4.64	97	1649749	455.495 ug/L	98
31) Carbon tetrachloride	4.64	117	207270	63.764 ug/L	100
39) cis-1,3-Dichloropropene	7.01	75	3530	1.023 ug/L	85
42) Toluene	7.41	91	8890319	958.832 ug/L	98
51) Chlorobenzene	8.90	112	18236	2.907 ug/L	93
52) Ethylbenzene	9.04	91	85967	8.302 ug/L	100
53) m,p-Xylene	9.16	106	125894	31.460 ug/L	96
54) o-xylene	9.56	106	70425	18.588 ug/L	96
55) Styrene	9.56	104	4206	0.638 ug/L #	1
56) Isopropylbenzene	9.95	105	15566	1.532 ug/L #	94
59) 1,2,3-Trichloropropane	11.27	75	20788	7.772 ug/L	92
63) 1,4-Dichlorobenzene	11.30	146	6285	1.248 ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	6393	1.322 ug/L	97

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Quant Time: Oct 08 06:42:20 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

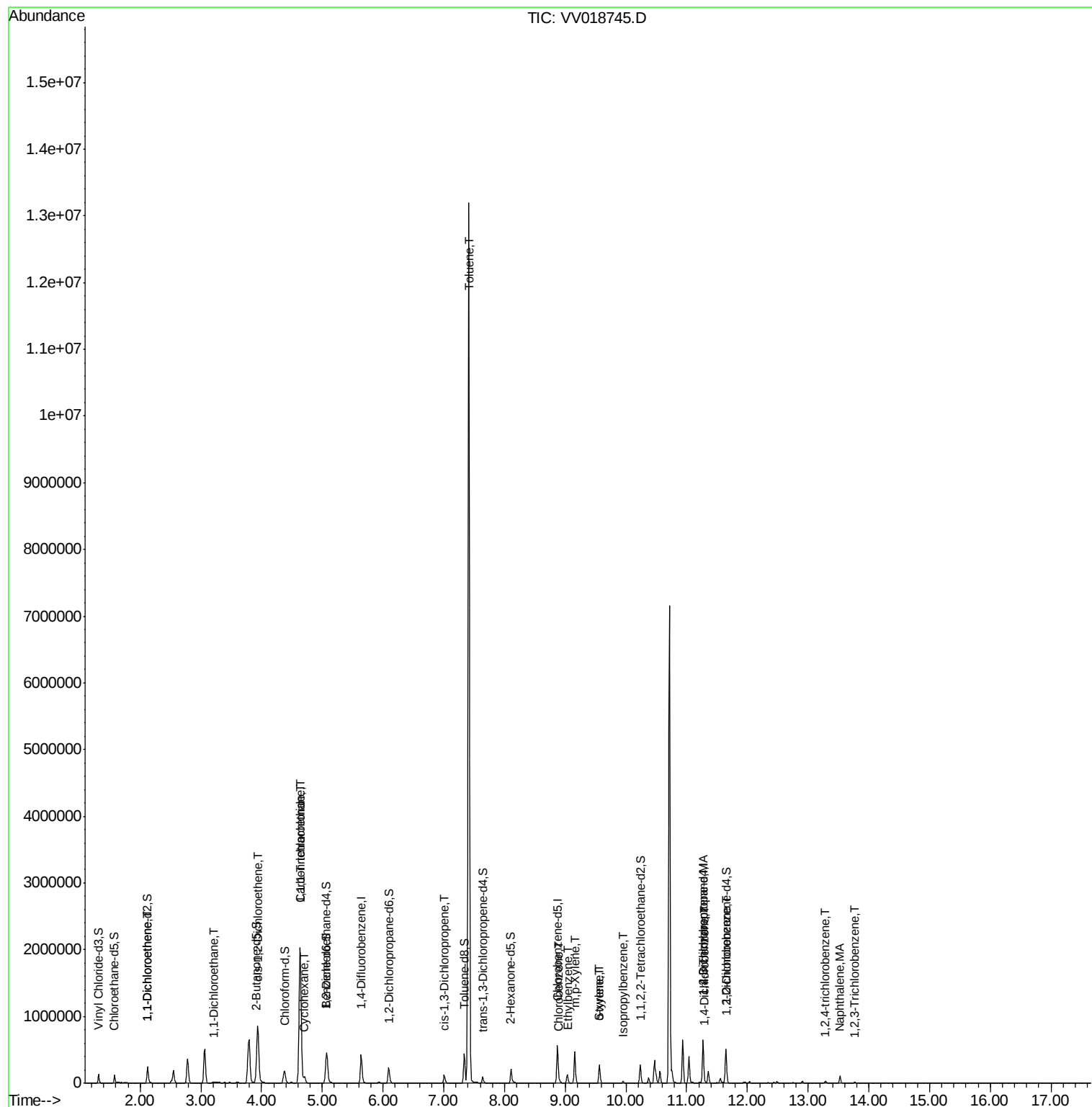
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.29	180	7850	2.491	ug/L	97
69) Naphthalene	13.53	128	79857	8.851	ug/L	98
70) 1,2,3-Trichlorobenzene	13.77	180	3692	1.167	ug/L	96

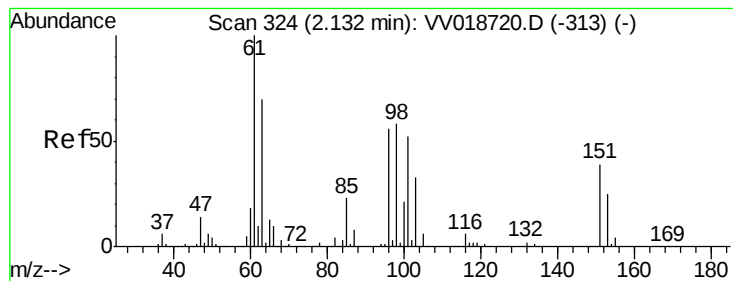
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 3.441 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

Instrument :

MSVOA_V

ClientSampled :

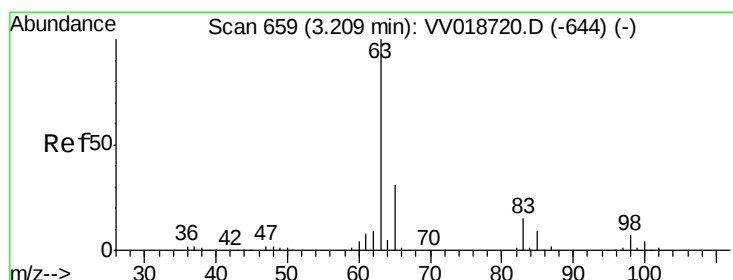
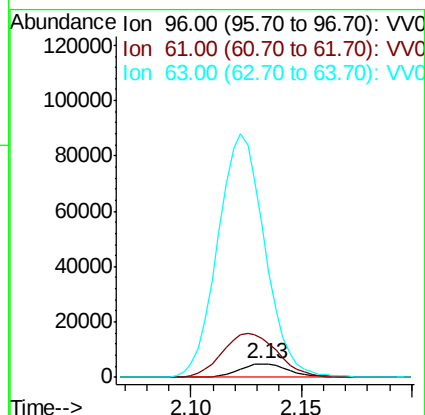
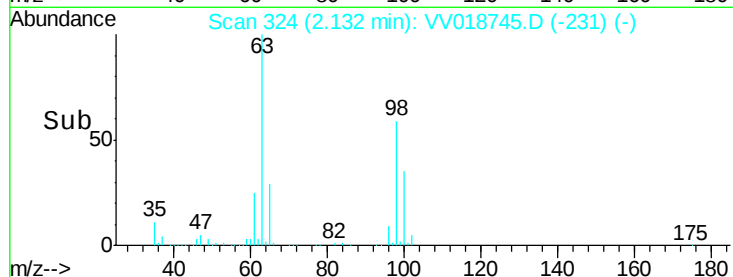
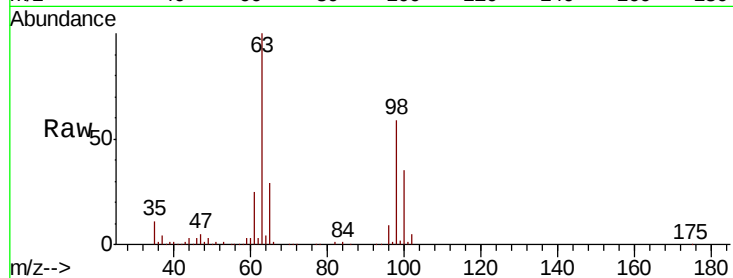
Tot Ion: 96 Resp: 7695

Ion Ratio Lower Upper

96 100

61 285.9 122.8 228.1#

63 1122.8 91.9 170.7#



#19

1,1-Dichloroethane

Concen: 2.551 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.01 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

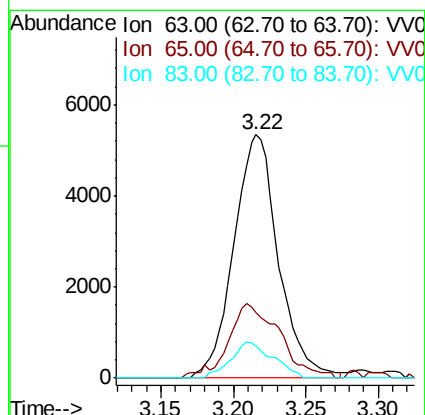
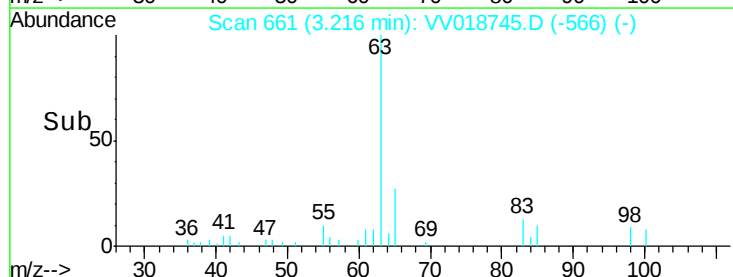
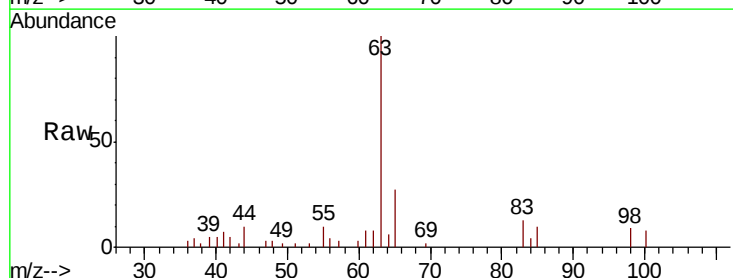
Tgt Ion: 63 Resp: 11428

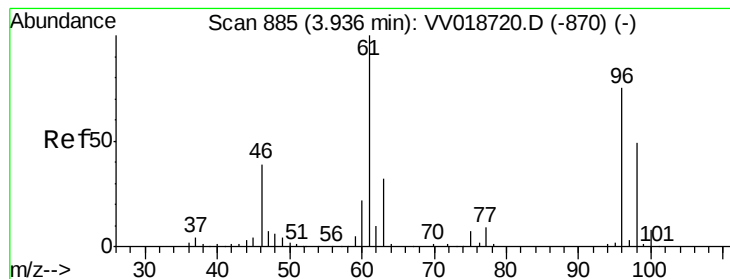
Ion Ratio Lower Upper

63 100

65 26.8 22.3 41.3

83 13.1 9.3 17.3



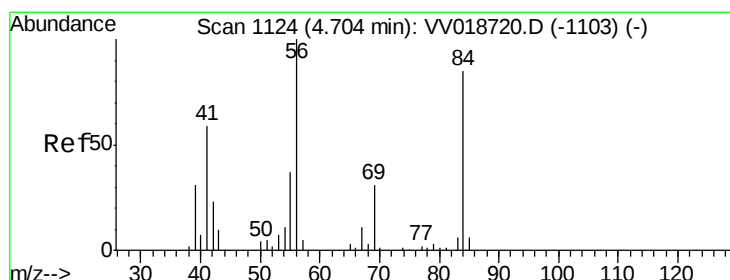
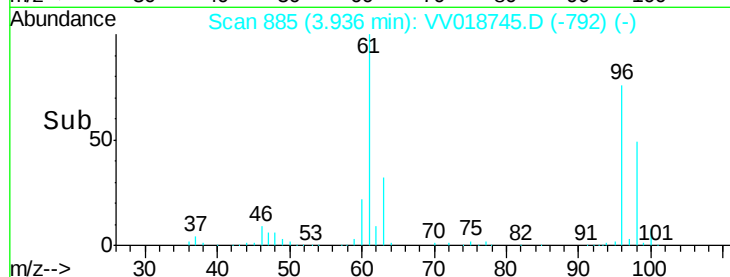
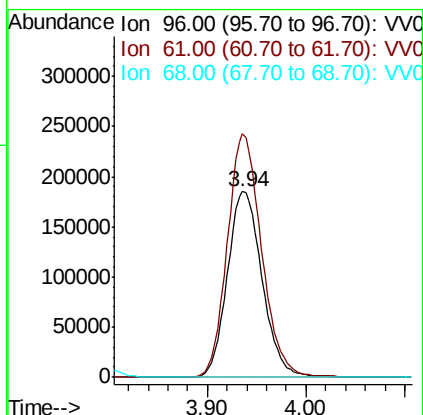
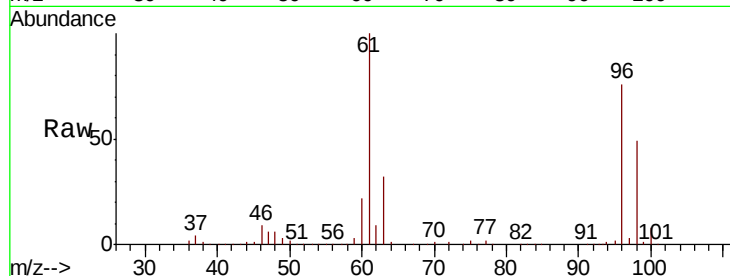


#20

cis-1,2-Dichloroethene
Concen: 167.155 ug/L
RT: 3.94 min Scan# 885
Delta R.T. -0.00 min
Lab File: VV018745.D
Acq: 07 Oct 2020 22:09

Instrument :
MSVOA_V
ClientSampleId :

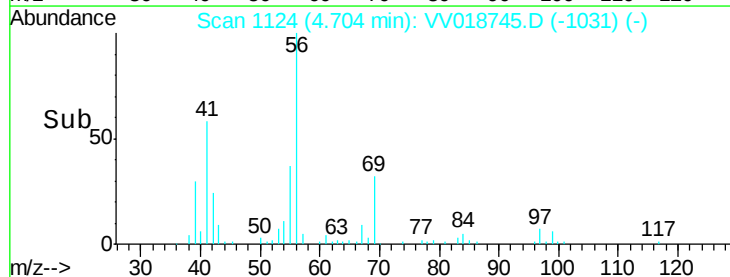
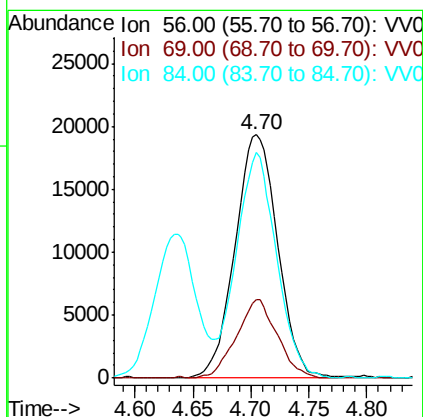
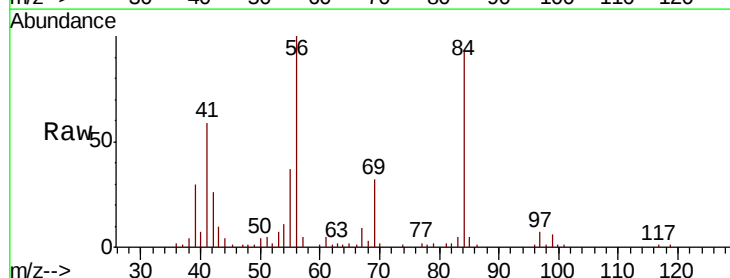
Tot Ion	96	Resp	454591
Ion Ratio	Lower	Upper	
96	100		
61	131.1	86.8	161.2
68	0.0	0.0	0.0

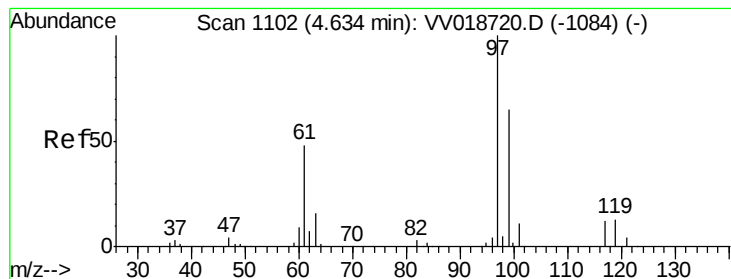


#29

Cyclohexane
Concen: 14.865 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. -0.00 min
Lab File: VV018745.D
Acq: 07 Oct 2020 22:09

Tgt Ion	56	Resp	49462
Ion Ratio	Lower	Upper	
56	100		
69	30.9	24.8	37.2
84	87.0	72.2	108.4





#30

1,1,1-Trichloroethane

Concen: 455.495 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

Instrument :

MSVOA_V

ClientSampled :

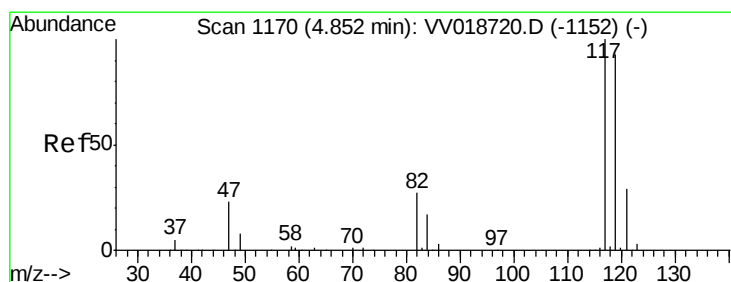
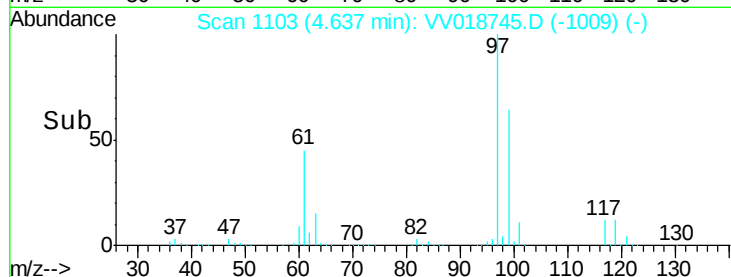
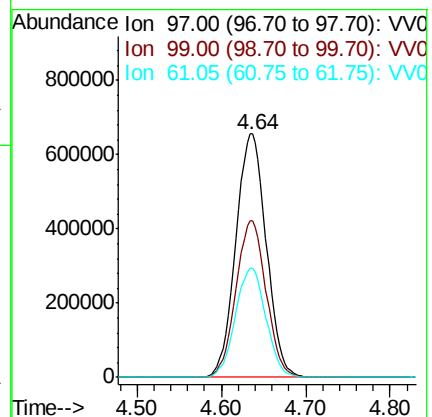
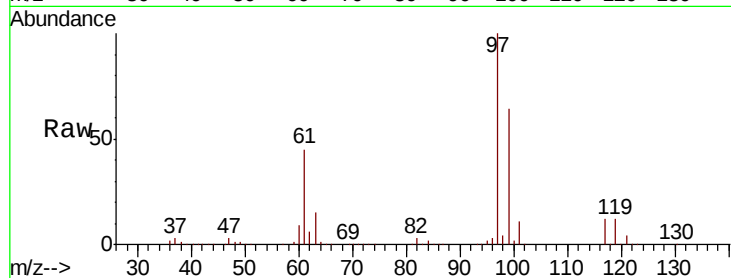
Tot Ion: 97 Resp: 1649749

Ion Ratio Lower Upper

97 100

99 63.9 51.4 77.0

61 45.0 33.9 50.9



#31

Carbon tetrachloride

Concen: 63.764 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. -0.22 min

Lab File: VV018745.D

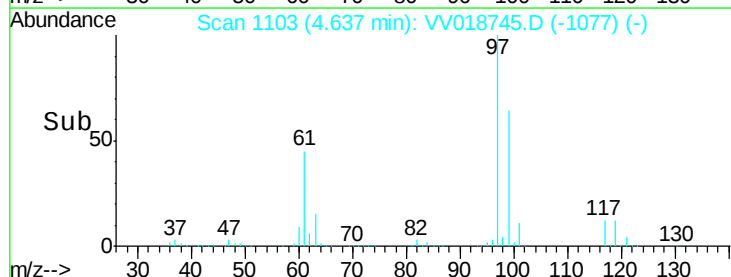
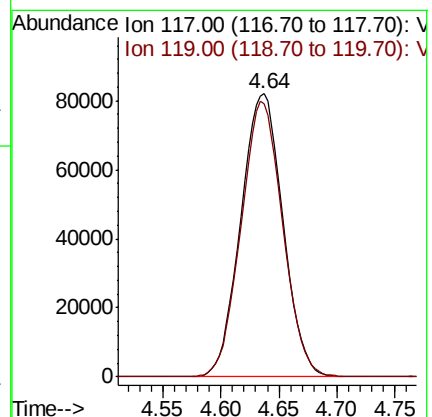
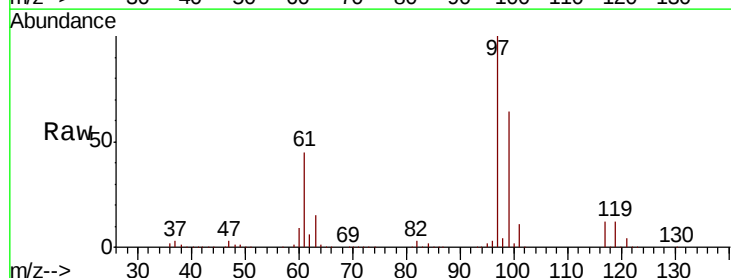
Acq: 07 Oct 2020 22:09

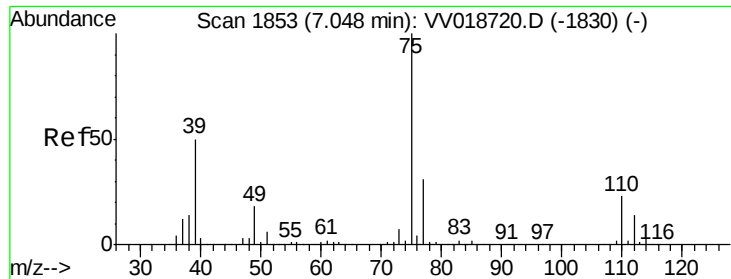
Tgt Ion: 117 Resp: 207270

Ion Ratio Lower Upper

117 100

119 96.1 77.0 115.6

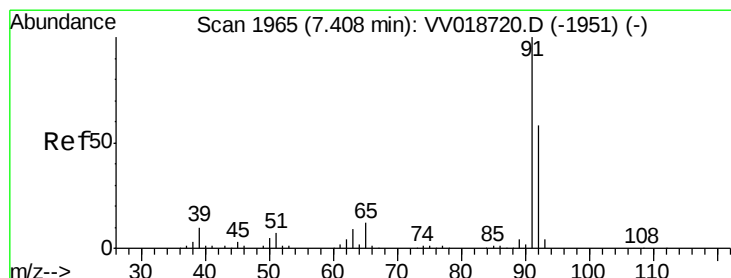
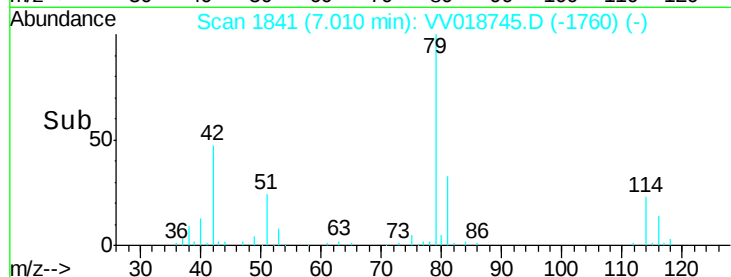
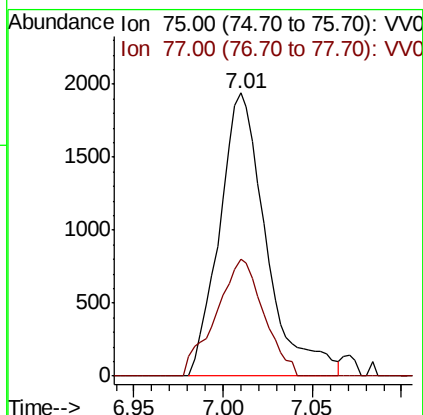
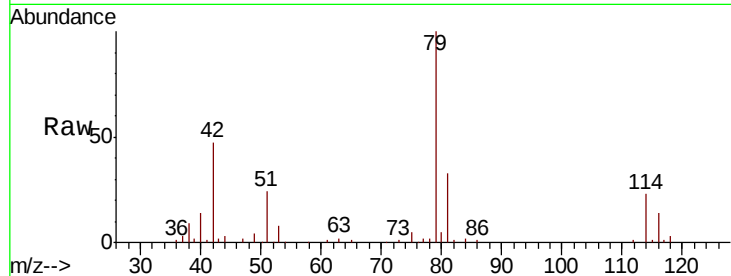




#39
 cis-1,3-Dichloropropene
 Concen: 1.023 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV018745.D
 Acq: 07 Oct 2020 22:09

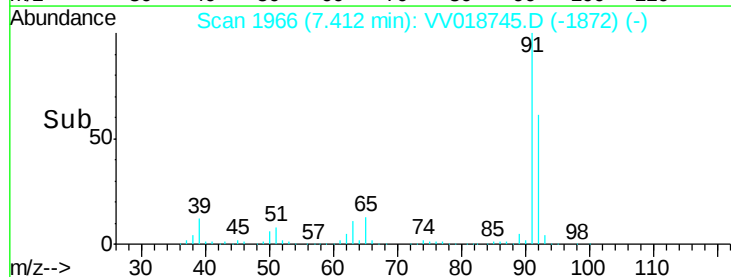
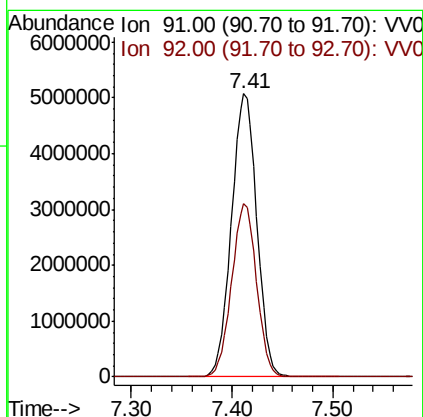
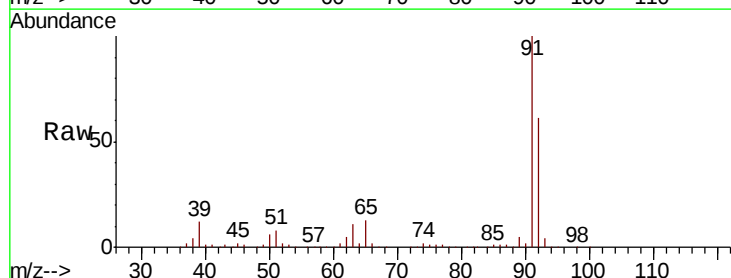
Instrument :
 MSVOA_V
 ClientSampled :

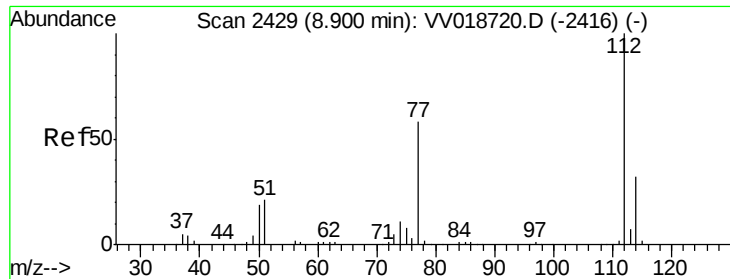
Tot Ion: 75 Resp: 3530
 Ion Ratio Lower Upper
 75 100
 77 41.3 23.0 42.6



#42
 Toluene
 Concen: 958.832 ug/L
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VV018745.D
 Acq: 07 Oct 2020 22:09

Tgt Ion: 91 Resp: 8890319
 Ion Ratio Lower Upper
 91 100
 92 61.0 41.6 77.3

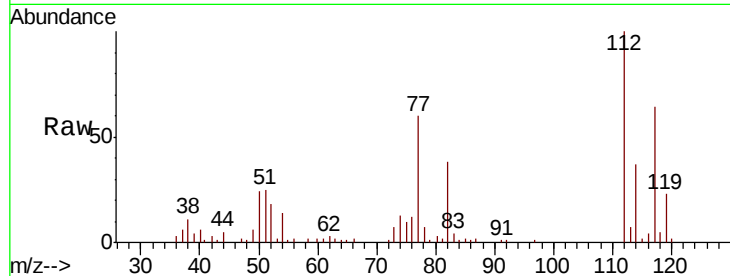




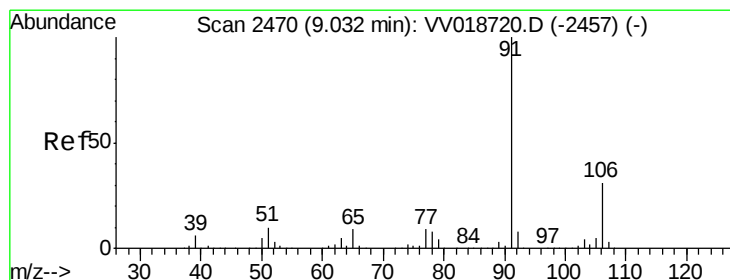
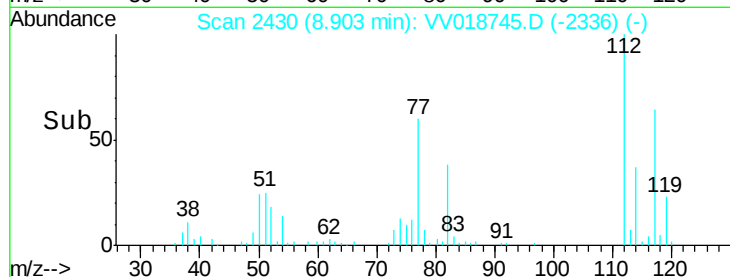
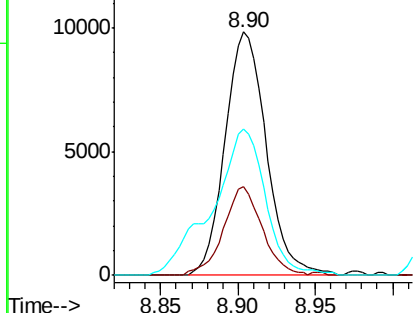
#51
Chlorobenzene
Concen: 2.907 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV018745.D
Acq: 07 Oct 2020 22:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 18236
Ion Ratio Lower Upper
112 100
114 36.7 22.4 41.6
77 60.0 44.8 67.2

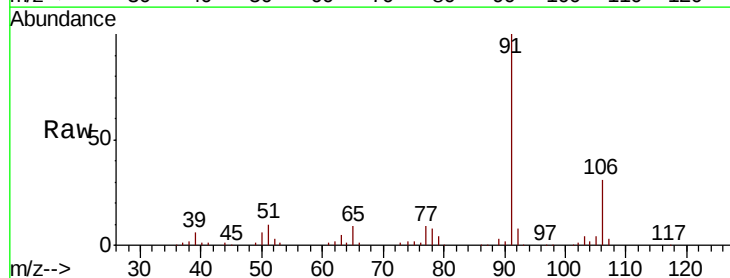


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

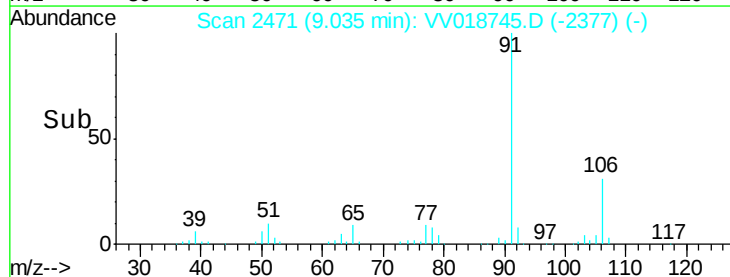
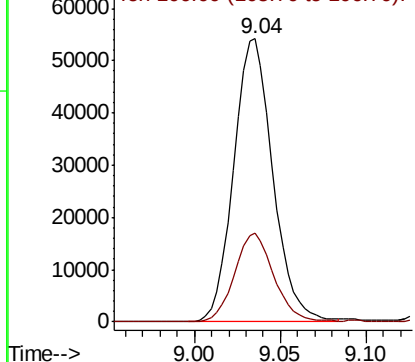


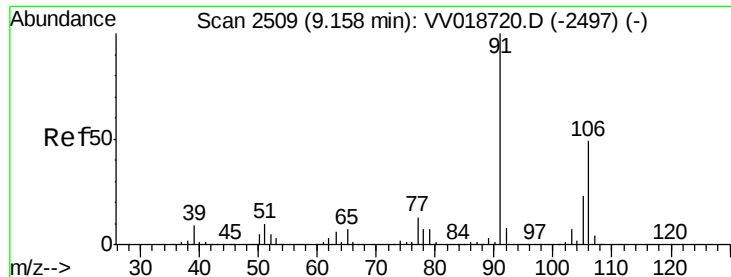
#52
Ethylbenzene
Concen: 8.302 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV018745.D
Acq: 07 Oct 2020 22:09

Tgt Ion: 91 Resp: 85967
Ion Ratio Lower Upper
91 100
106 31.3 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 31.460 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

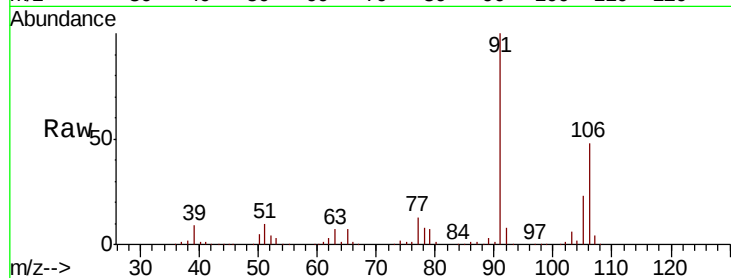
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 125894

Ion Ratio Lower Upper

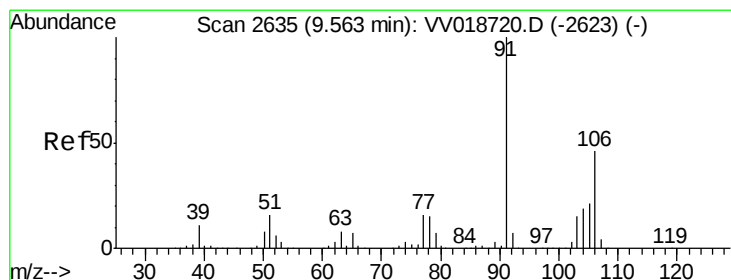
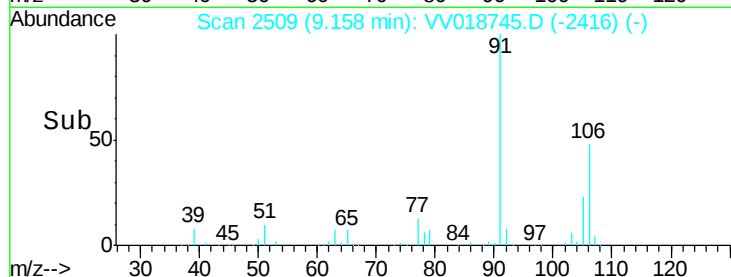
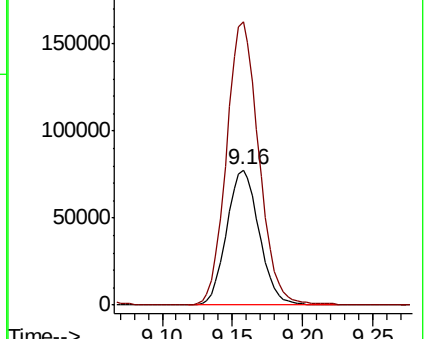
106 100

91 209.5 142.3 264.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 18.588 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV018745.D

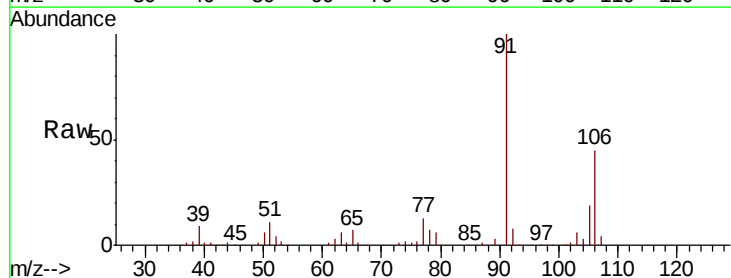
Acq: 07 Oct 2020 22:09

Tgt Ion:106 Resp: 70425

Ion Ratio Lower Upper

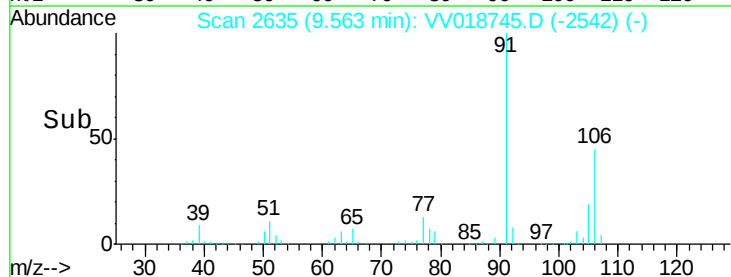
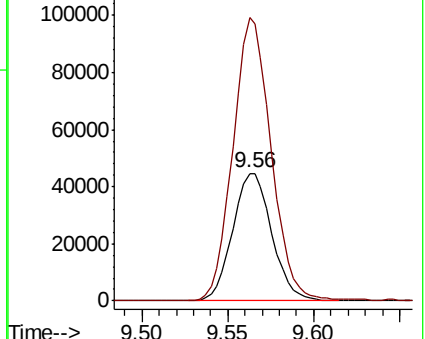
106 100

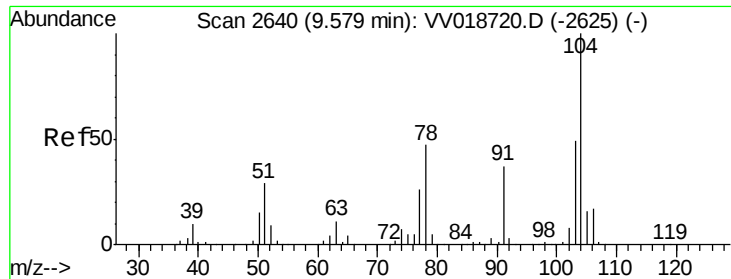
91 222.2 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

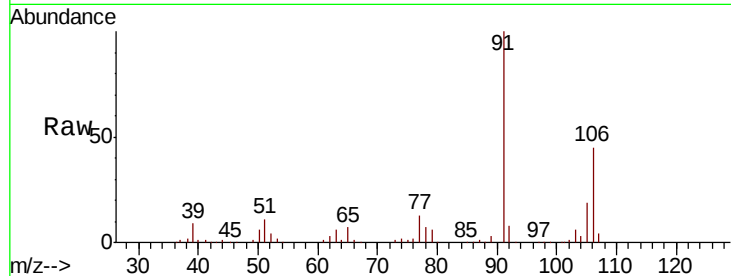




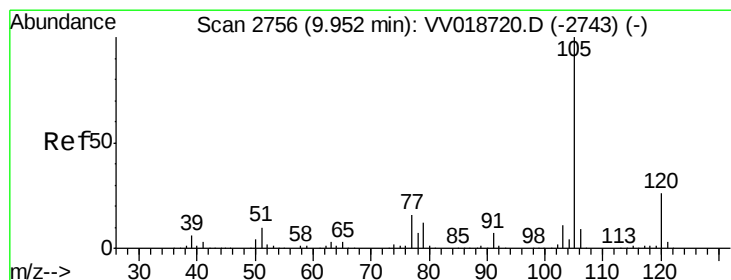
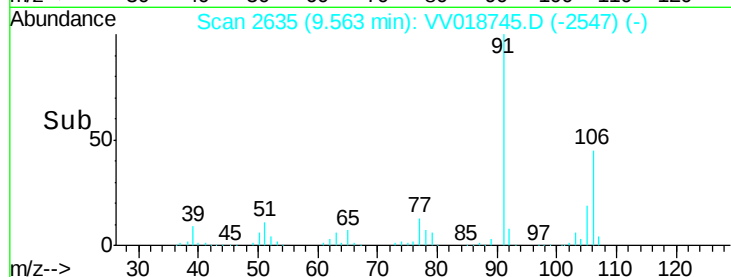
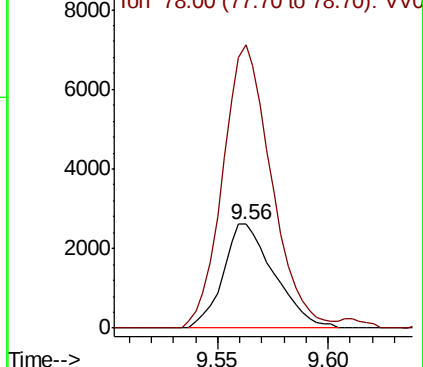
#55
Stvrene
Concen: 0.638 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VV018745.D
Acq: 07 Oct 2020 22:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:104 Resp: 4206
Ion Ratio Lower Upper
104 100
78 272.5 30.2 56.2#

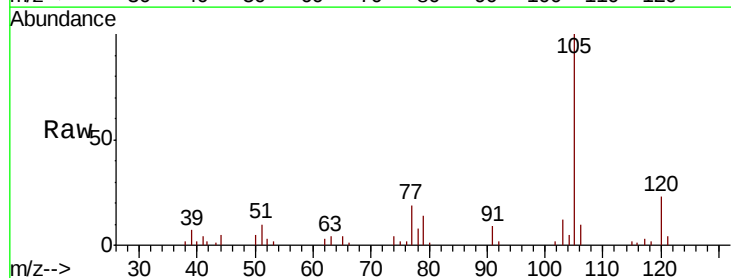


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0

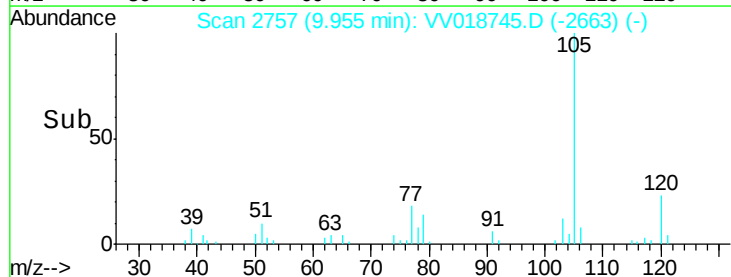
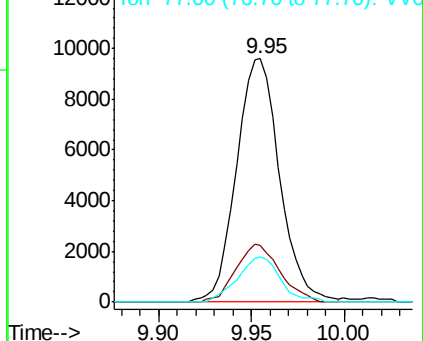


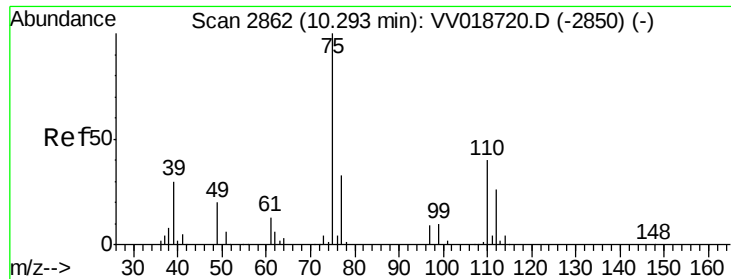
#56
Isopropylbenzene
Concen: 1.532 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV018745.D
Acq: 07 Oct 2020 22:09

Tgt Ion:105 Resp: 15566
Ion Ratio Lower Upper
105 100
120 24.1 21.5 32.3
77 18.5 12.2 18.2#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): VV0

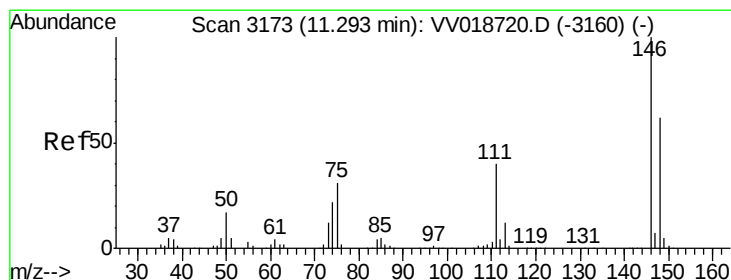
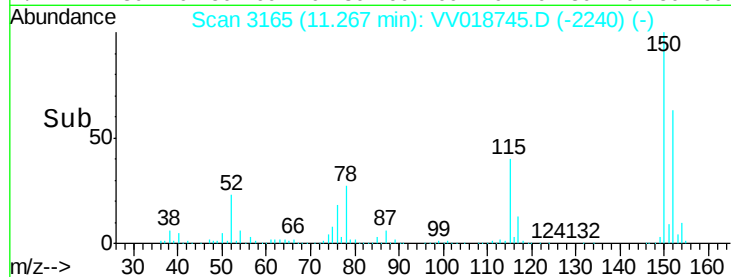
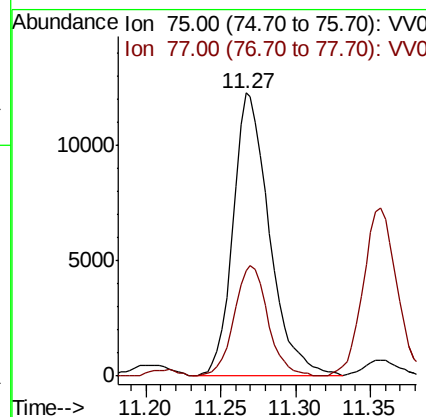
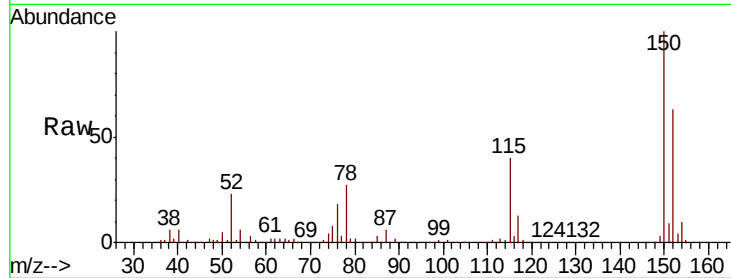




#59
 1,2,3-Trichloropropane
 Concen: 7.772 ug/L
 RT: 11.27 min Scan# 3165
 Delta R.T. 0.97 min
 Lab File: VV018745.D
 Acq: 07 Oct 2020 22:09

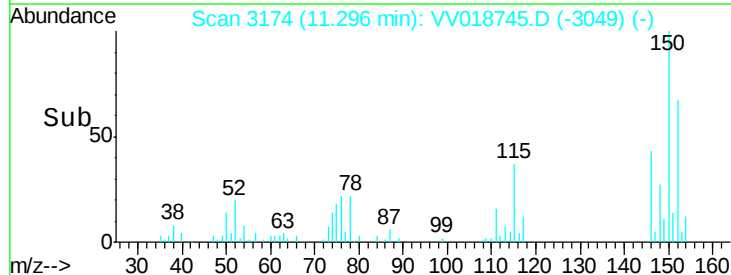
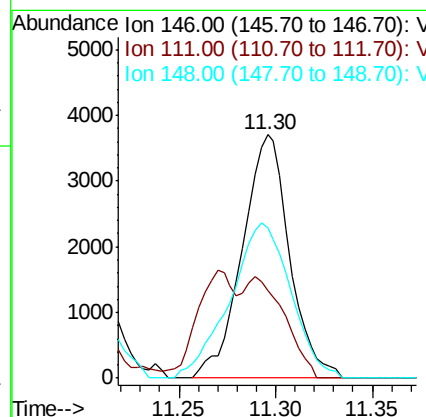
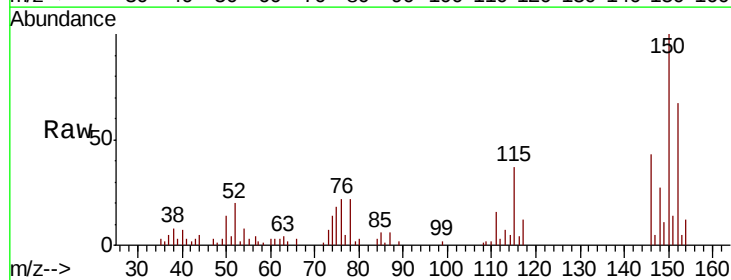
Instrument :
 MSVOA_V
 ClientSampled :

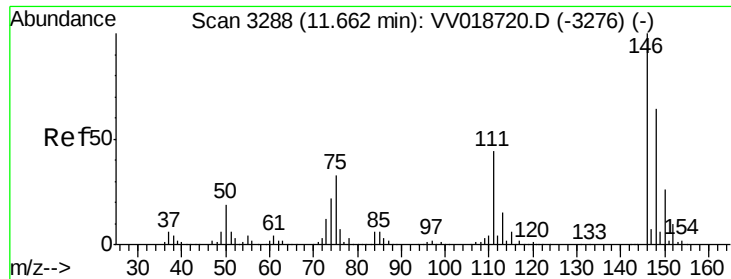
Tot Ion: 75 Resp: 20788
 Ion Ratio Lower Upper
 75 100
 77 36.3 25.4 38.0



#63
 1,4-Dichlorobenzene
 Concen: 1.248 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV018745.D
 Acq: 07 Oct 2020 22:09

Tgt Ion: 146 Resp: 6285
 Ion Ratio Lower Upper
 146 100
 111 36.0 26.2 48.6
 148 61.9 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 1.322 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

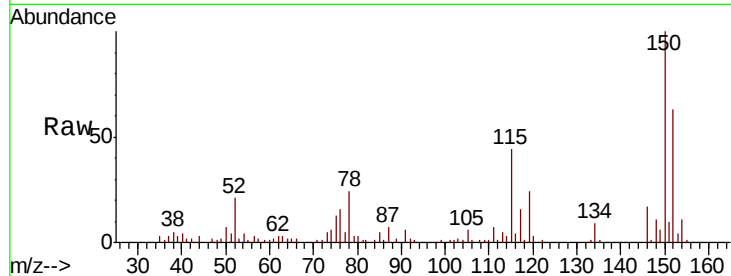
Instrument :

MSVOA_V

ClientSampled :

Tot Ion:146 Resp: 6393

Ion	Ratio	Lower	Upper
146	100		
111	42.7	32.8	49.2
148	61.8	51.9	77.9

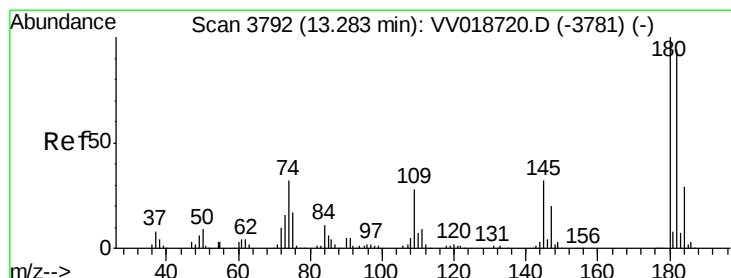
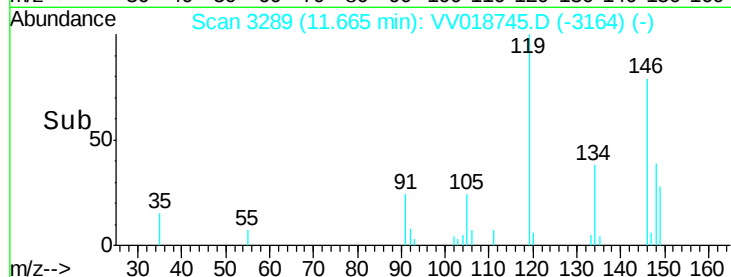
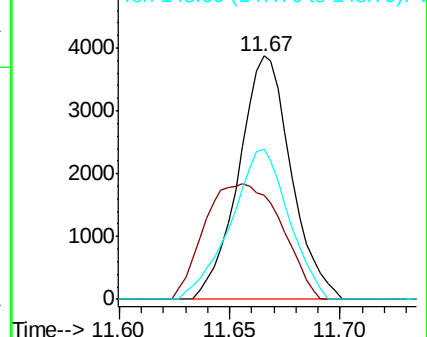


Abundance

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



#68

1,2,4-trichlorobenzene

Concen: 2.491 ug/L

RT: 13.29 min Scan# 3793

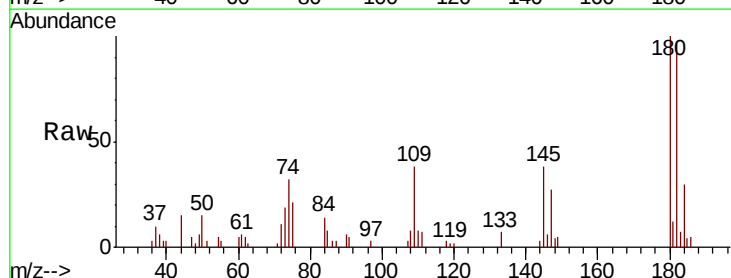
Delta R.T. 0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

Tgt Ion:180 Resp: 7850

Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.3	114.5
145	34.5	23.6	35.4

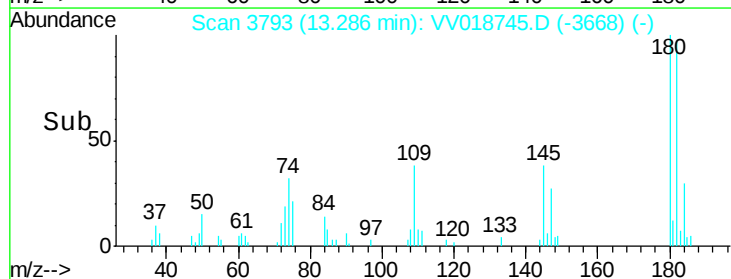
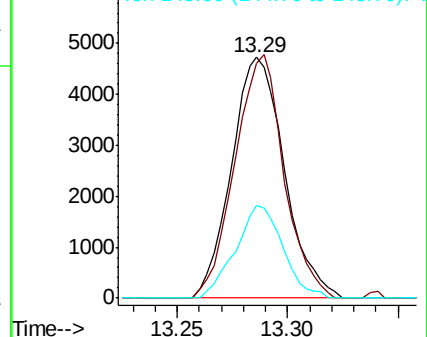


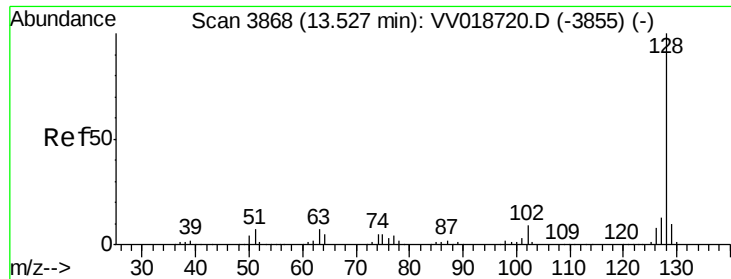
Abundance

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: 8.851 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

Instrument :

MSVOA_V

ClientSampleId :

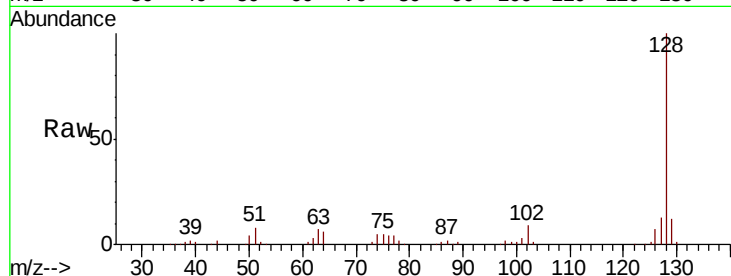
Tot Ion:128 Resp: 79857

Ion Ratio Lower Upper

128 100

127 13.5 10.3 15.5

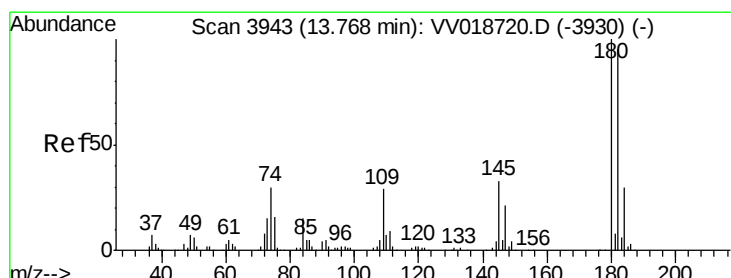
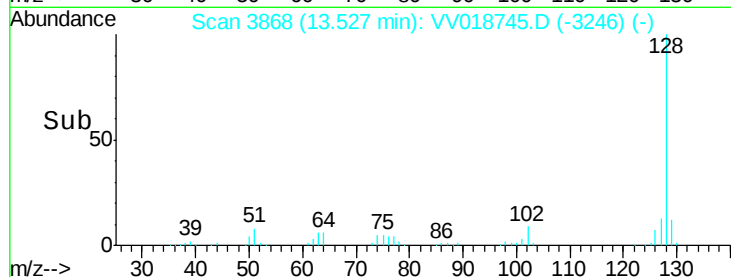
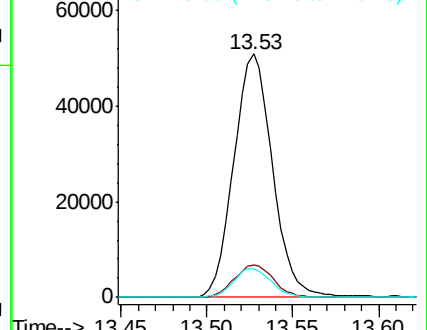
129 11.5 8.6 12.8



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: 1.167 ug/L

RT: 13.77 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VV018745.D

Acq: 07 Oct 2020 22:09

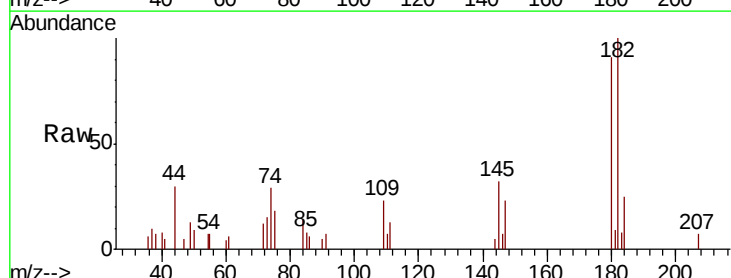
Tgt Ion:180 Resp: 3692

Ion Ratio Lower Upper

180 100

182 92.6 77.1 115.7

145 33.6 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

