

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092320\
 Data File : VW016614.D
 Acq On : 22 Sep 2020 16:41
 Operator : SY/VA
 Sample : L4109-04
 Misc : 6.04G/10ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W8

Quant Time: Sep 23 07:30:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 23 07:21:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	695923	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	611487	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	298141	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	171477	25.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.84%
7) Chloroethane-d5	2.90	69	146707	26.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	106.68%
10) 1,1-Dichloroethene-d2	4.03	63	323144	21.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.84%
20) 2-Butanone-d5	7.09	46	76222	41.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.00%
24) Chloroform-d	7.65	84	361960	24.86	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.44%
26) 1,2-Dichloroethane-d4	8.41	65	191	0.03	ug/L	0.10
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.12%#
29) Benzene-d6	8.28	84	718397	26.20	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.80%
33) 1,2-Dichloropropane-d6	9.28	67	197177	26.53	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.12%
37) Toluene-d8	10.33	98	700975	25.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.92%
38) trans-1,3-Dichloropropene-	10.58	79	86625	23.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.48%
39) 2-Hexanone-d5	10.93	63	61973	45.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.70%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	145333	22.98	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.92%
61) 1,2-Dichlorobenzene-d4	13.86	152	249957	26.24	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.96%

Target Compounds

					Ovalue
5) Vinyl chloride	2.37	62	2422	0.261 ug/L #	1
11) 1,1,2-Trichloro-1,2,2-trif	4.03	101	2774	0.309 ug/L #	20
12) 1,1-Dichloroethene	4.06	96	116798	13.250 ug/L #	76
13) Acetone	4.13	43	13218	9.188 ug/L	99
16) Methylene chloride	4.93	84	66874	6.230 ug/L	90
18) trans-1,2-Dichloroethene	5.43	96	5722	0.627 ug/L	92
19) 1,1-Dichloroethane	6.23	63	77891	5.396 ug/L	98
21) 2-Butanone	7.18	43	5211	2.129 ug/L #	1
22) cis-1,2-Dichloroethene	7.18	96	1565717	165.305 ug/L	98
30) Cyclohexane	7.96	56	99273	7.429 ug/L	99
31) 1,1,1-Trichloroethane	7.88	97	2097764	146.888 ug/L	100
32) Carbon tetrachloride	7.88	117	278594	20.079 ug/L	98
34) Benzene	8.33	78	10886	0.332 ug/L	100
35) Trichloroethene	9.10	95	179529	18.933 ug/L	99
42) cis-1,3-Dichloropropene	10.04	75	7223	0.555 ug/L #	69
44) Toluene	10.39	91	11177337	303.285 ug/L	89
45) trans-1,3-Dichloropropene	10.58	75	4253	0.375 ug/L	91

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 QLast Update : Wed Sep 23 07:21:48 2020
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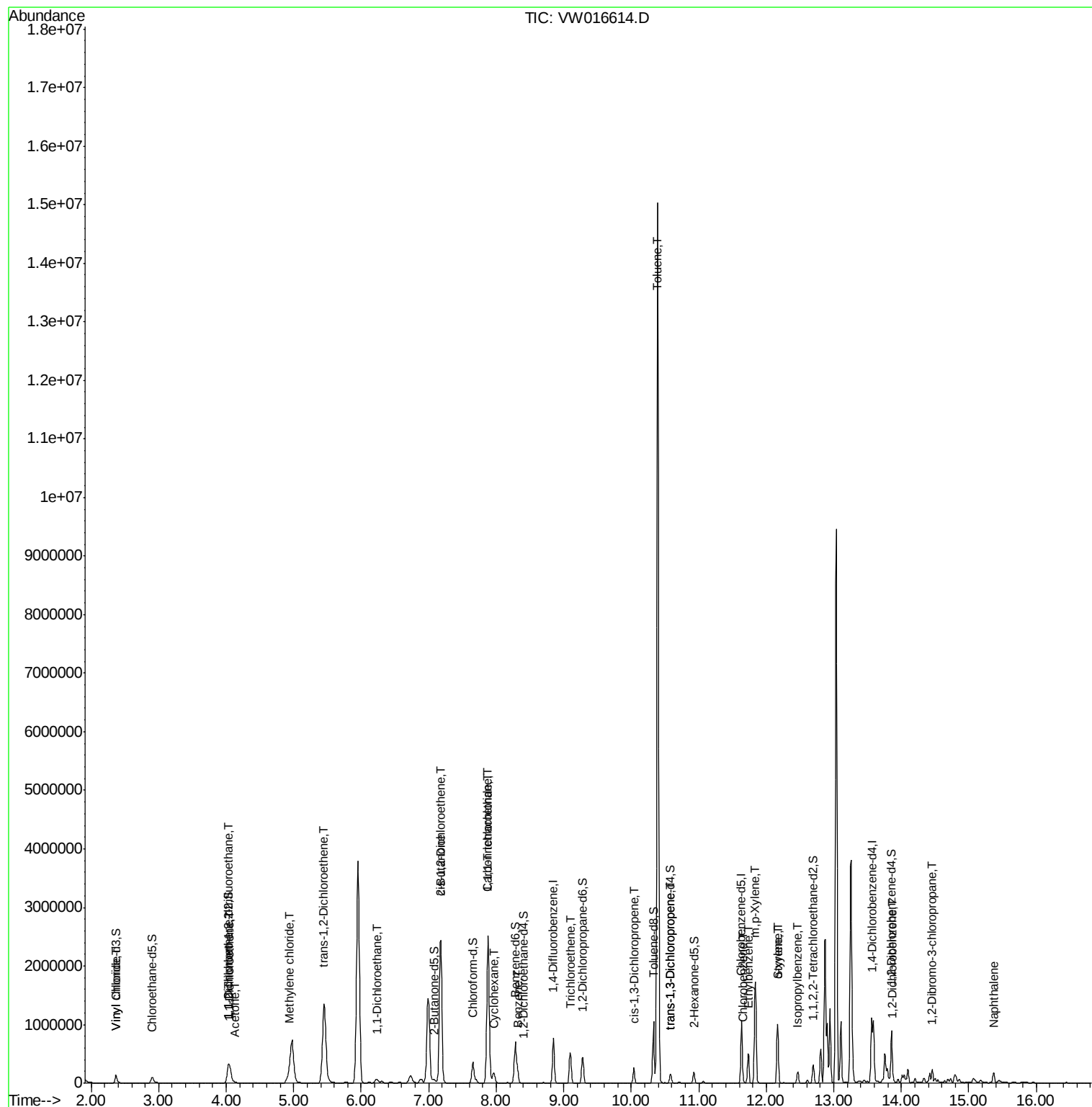
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Chlorobenzene	11.66	112	10440	0.422	ug/L	92
53) Ethylbenzene	11.73	91	364681	8.716	ug/L	97
54) m,p-Xylene	11.84	106	558760	34.104	ug/L	100
55) o-xylene	12.17	106	282442	17.994	ug/L	93
56) Styrene	12.16	104	14671	0.563	ug/L #	1
57) Isopropylbenzene	12.47	105	127230	2.966	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	7830	0.452	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.46	75	1374	1.106	ug/L #	1
69) Naphthalene	15.37	128	157190	7.729	ug/L	99

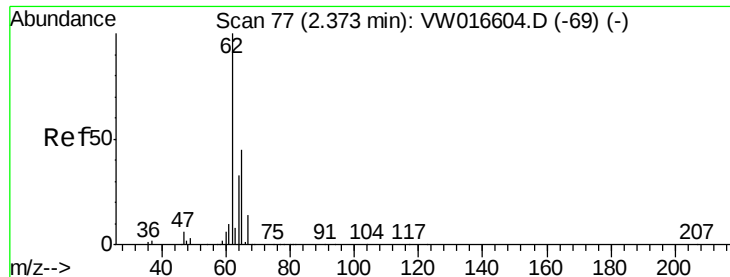
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.261 ug/L

RT: 2.37 min Scan# 77

Delta R.T. -0.00 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

Instrument :

MSVOA_W

ClientSampleId :

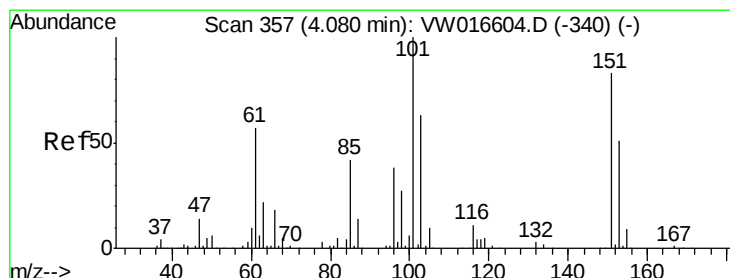
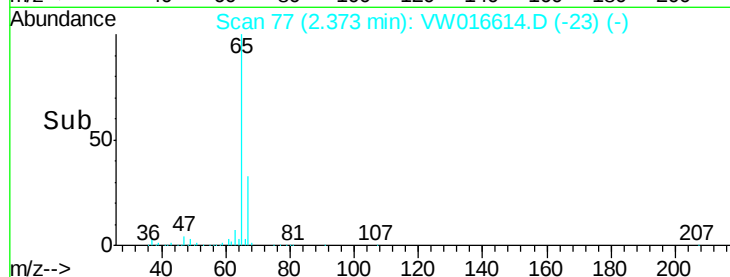
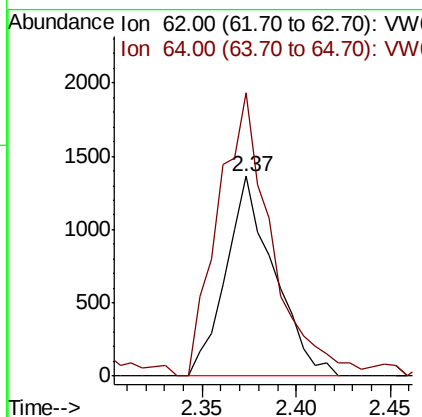
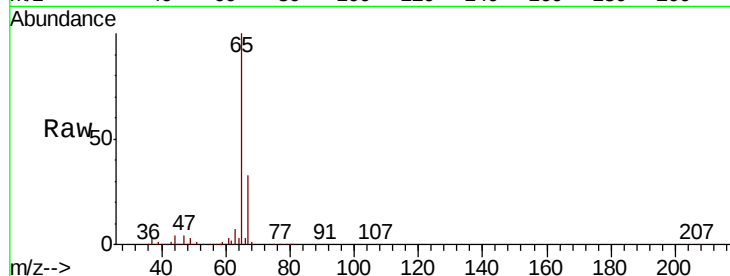
BG3W8

Tot Ion: 62 Resp: 2422

Ion Ratio Lower Upper

62 100

64 141.7 23.4 43.4#



#11

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

Concen: 0.309 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.05 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

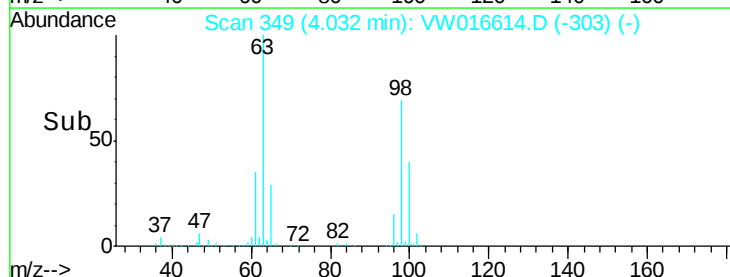
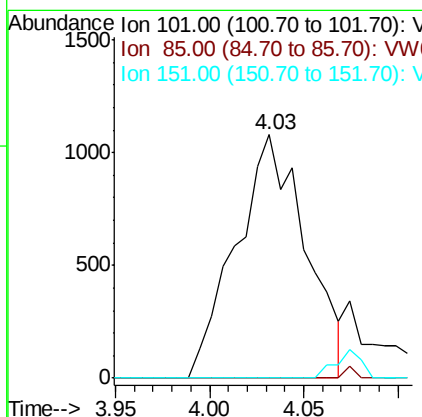
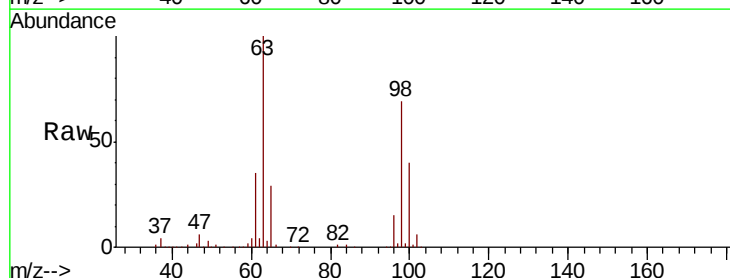
Tgt Ion: 101 Resp: 2774

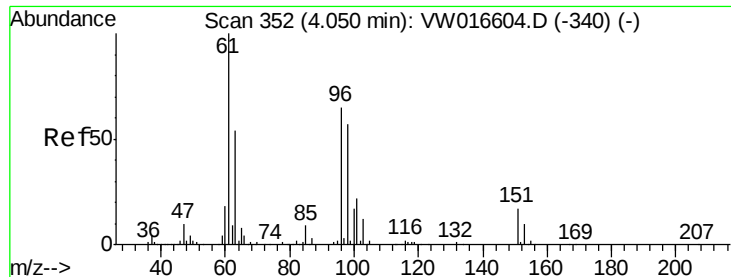
Ion Ratio Lower Upper

101 100

85 0.0 32.6 49.0#

151 4.3 66.0 99.0#





#12

1,1-Dichloroethene

Concen: 13.250 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

Instrument :

MSVOA_W

ClientSampleId :

BG3W8

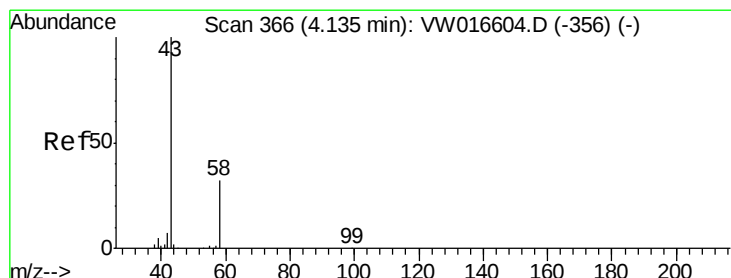
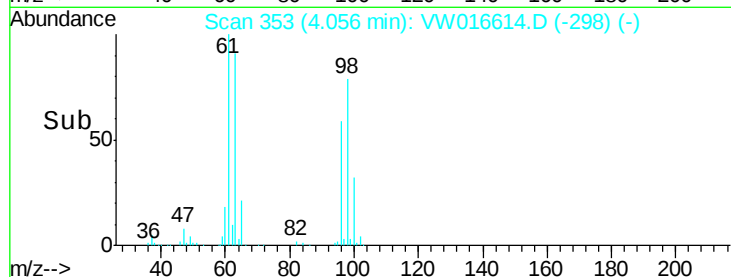
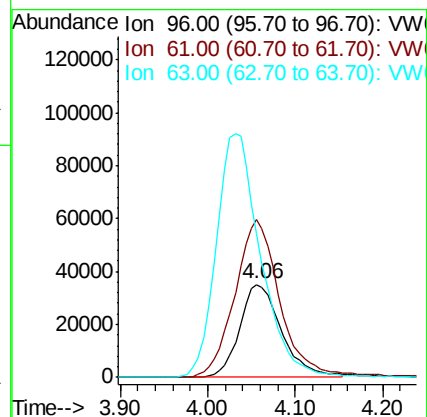
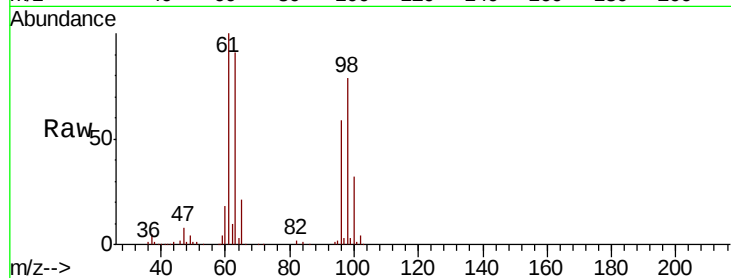
Tot Ion: 96 Resp: 116798

Ion Ratio Lower Upper

96 100

61 169.2 111.4 206.8

63 154.2 73.0 135.6#



#13

Acetone

Concen: 9.188 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW016614.D

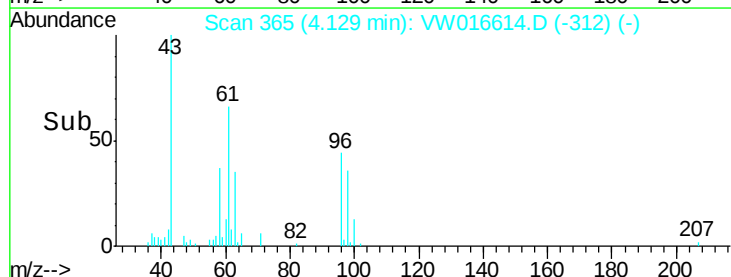
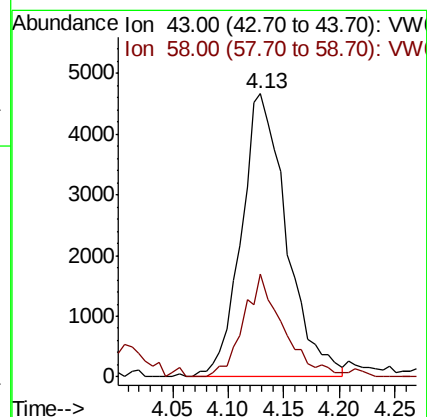
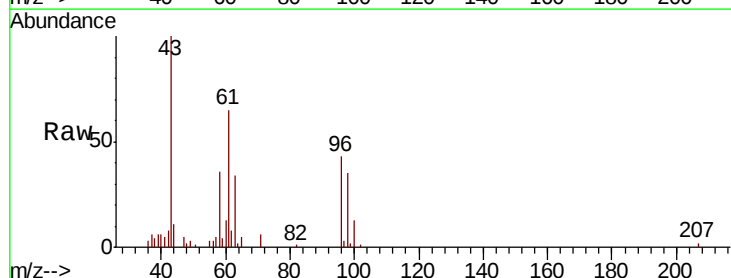
Acq: 22 Sep 2020 16:41

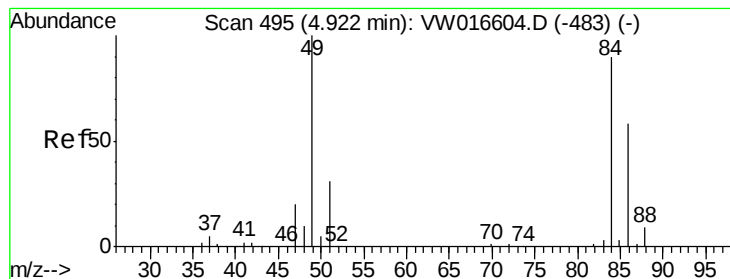
Tgt Ion: 43 Resp: 13218

Ion Ratio Lower Upper

43 100

58 30.5 0.0 60.2





#16

Methylene chloride

Concen: 6.230 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

Instrument :

MSVOA_W

ClientSampled :

BG3W8

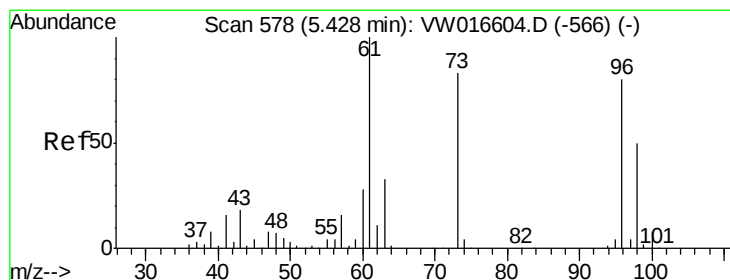
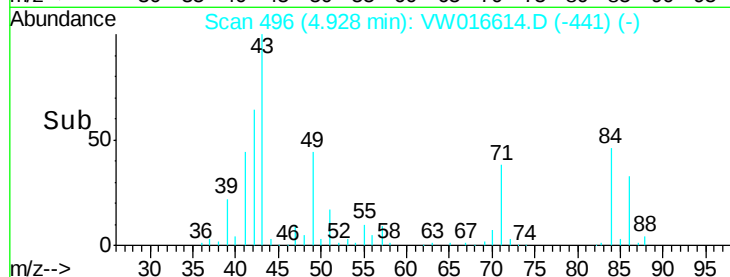
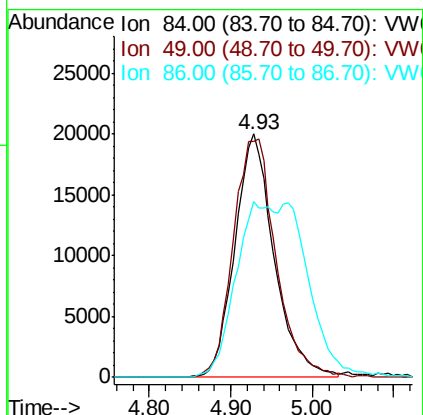
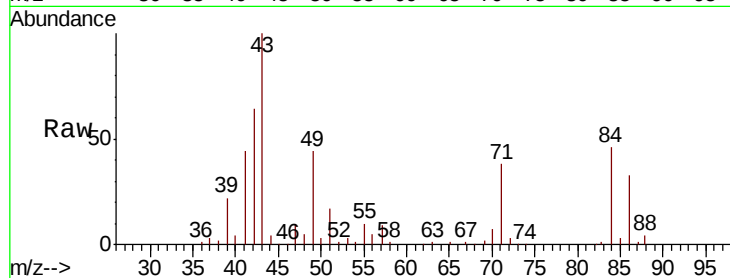
Tot Ion: 84 Resp: 66874

Ion Ratio Lower Upper

84 100

49 97.1 76.0 141.2

86 71.9 45.6 84.6



#18

trans-1,2-Dichloroethene

Concen: 0.627 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

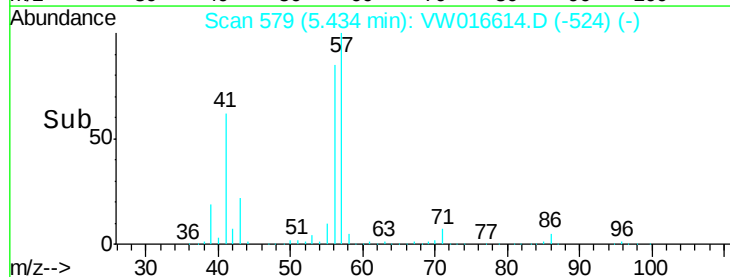
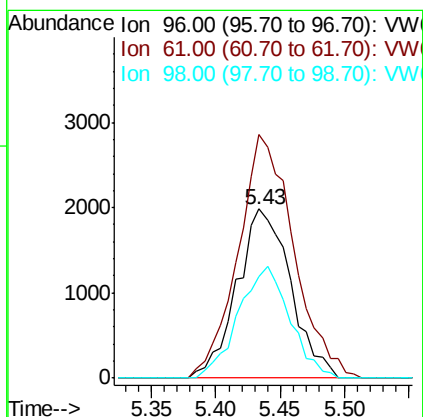
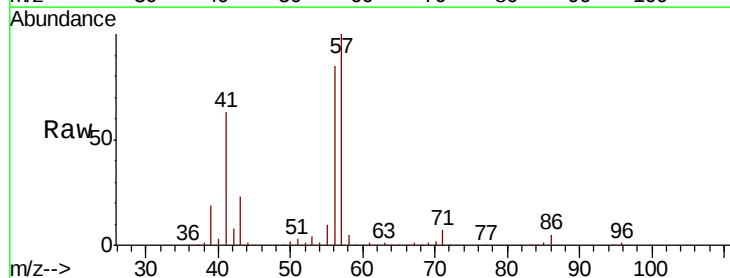
Tgt Ion: 96 Resp: 5722

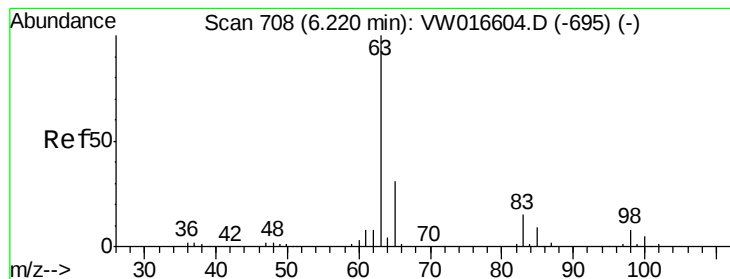
Ion Ratio Lower Upper

96 100

61 138.0 88.4 164.2

98 57.8 43.0 80.0

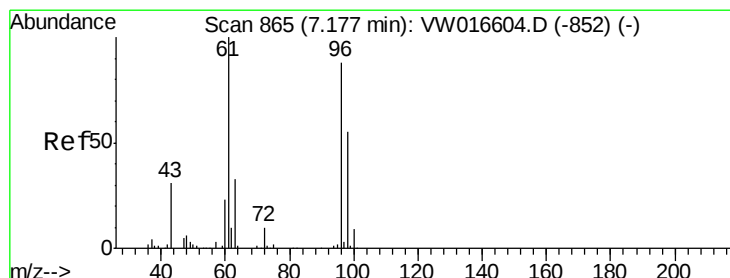
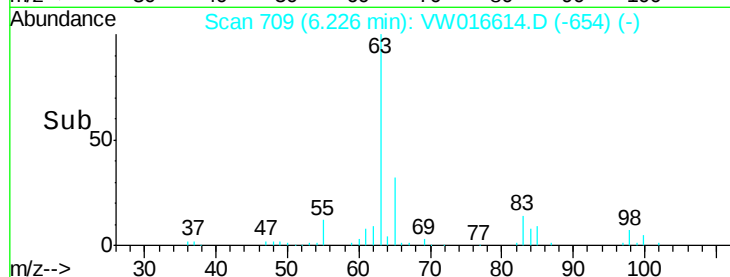
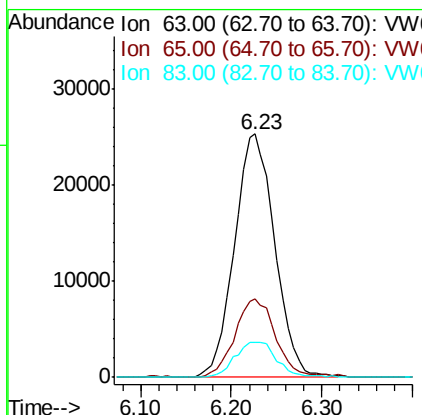
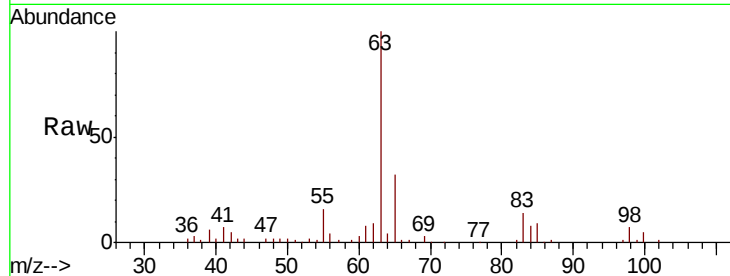




#19
 1,1-Dichloroethane
 Concen: 5.396 ug/L
 RT: 6.23 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

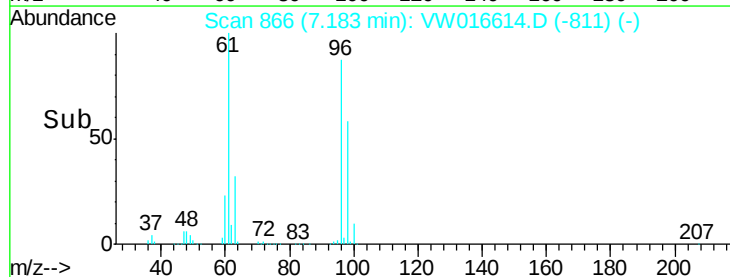
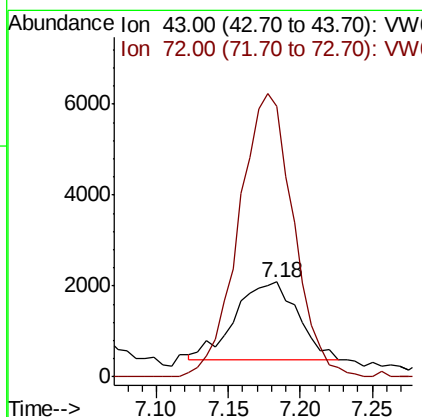
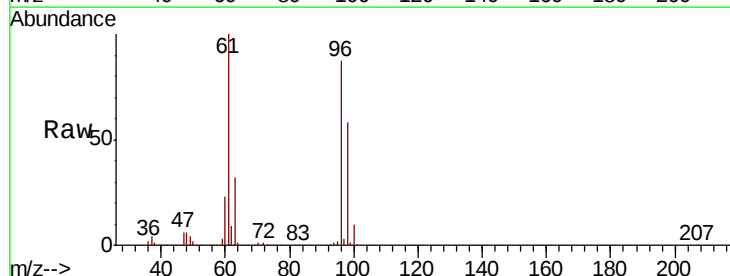
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W8

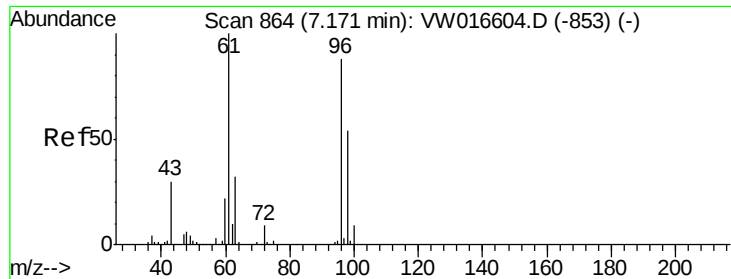
Tot Ion: 63 Resp: 77891
 Ion Ratio Lower Upper
 63 100
 65 32.3 21.6 40.0
 83 14.2 10.4 19.2



#21
 2-Butanone
 Concen: 2.129 ug/L
 RT: 7.18 min Scan# 866
 Delta R.T. 0.01 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

Tgt Ion: 43 Resp: 5211
 Ion Ratio Lower Upper
 43 100
 72 315.6 14.6 43.8#



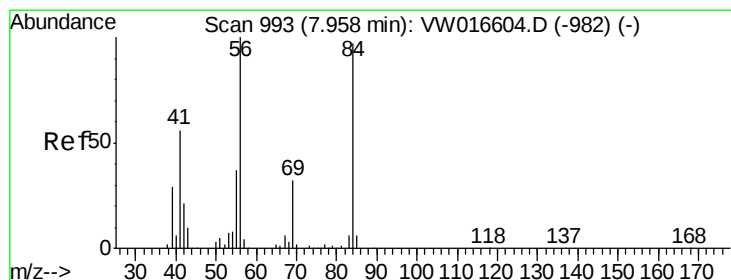
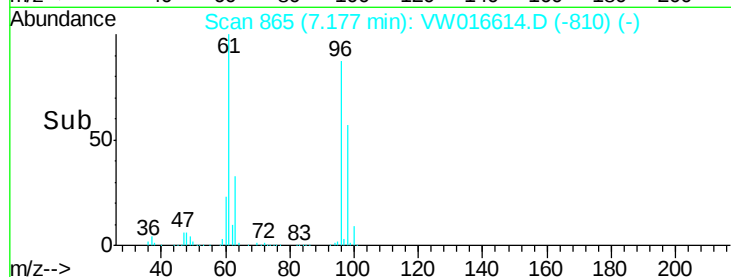
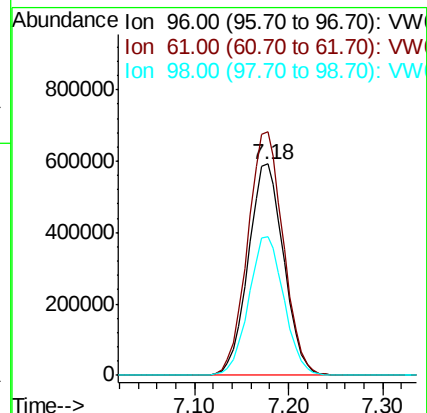
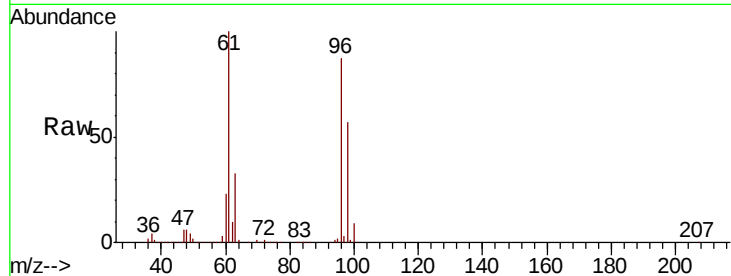


#22

cis-1,2-Dichloroethene
 Concen: 165.305 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

Instrument :
 MSVOA_W
 ClientSampled :
 BG3W8

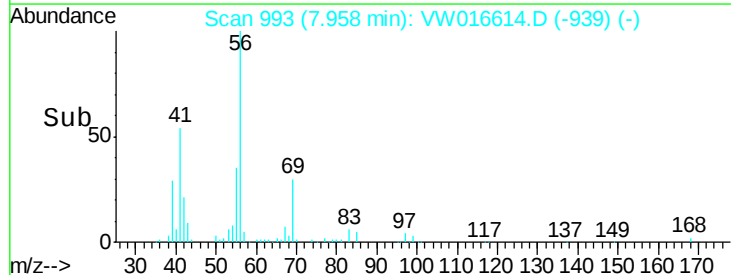
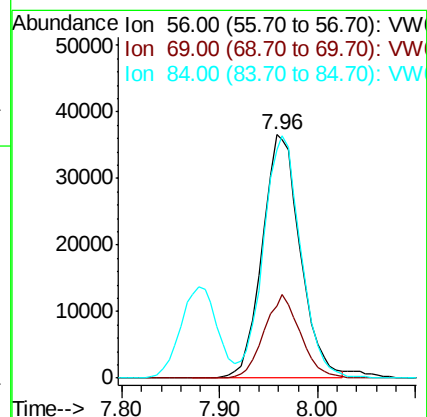
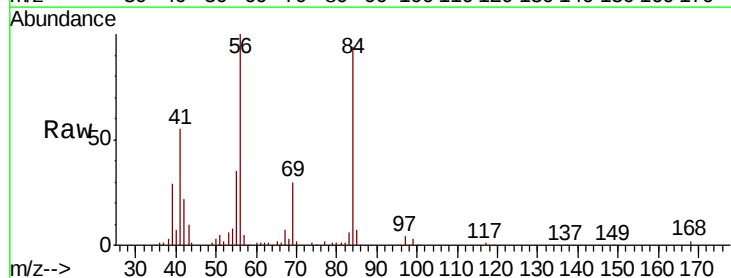
Tot Ion: 96 Resp: 1565717
 Ion Ratio Lower Upper
 96 100
 61 115.1 78.4 145.6
 98 65.4 44.8 83.2

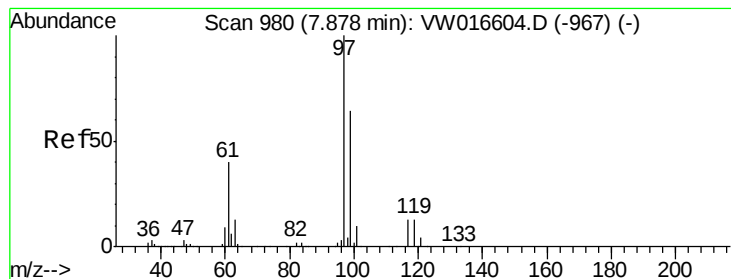


#30

Cyclohexane
 Concen: 7.429 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

Tgt Ion: 56 Resp: 99273
 Ion Ratio Lower Upper
 56 100
 69 32.7 26.5 39.7
 84 97.9 79.0 118.6





#31

1,1,1-Trichloroethane

Concen: 146.888 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

Instrument :

MSVOA_W

ClientSampled :

BG3W8

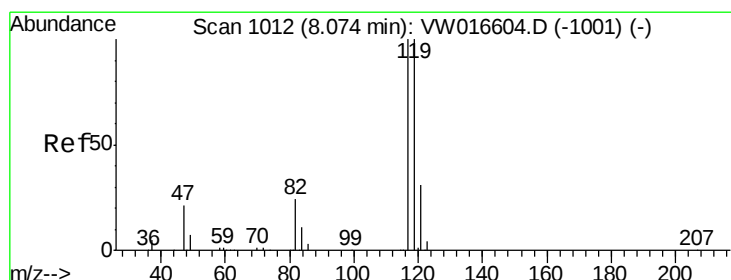
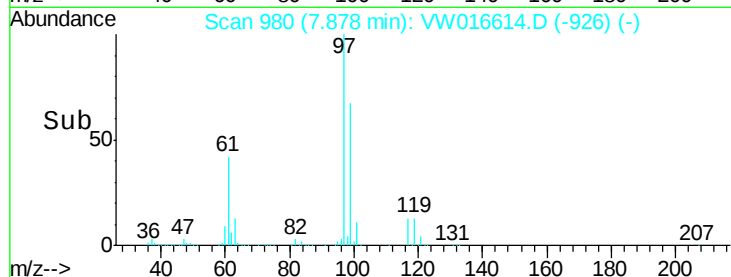
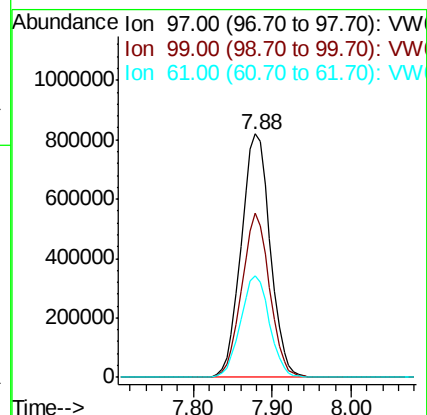
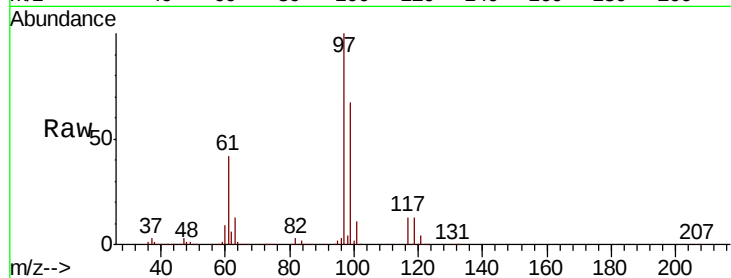
Tot Ion: 97 Resp: 2097764

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.6

61 41.4 33.6 50.4



#32

Carbon tetrachloride

Concen: 20.079 ug/L

RT: 7.88 min Scan# 980

Delta R.T. -0.20 min

Lab File: VW016614.D

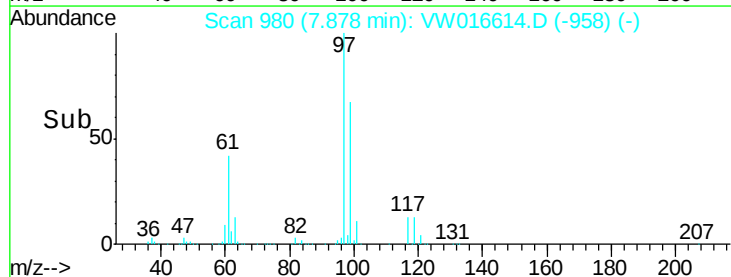
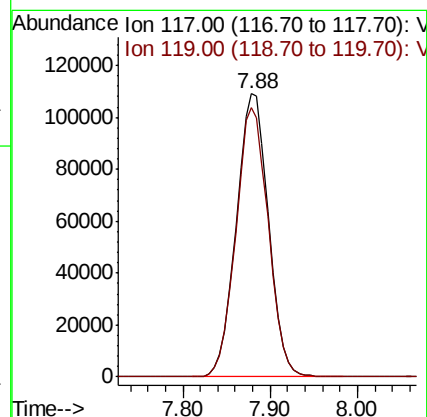
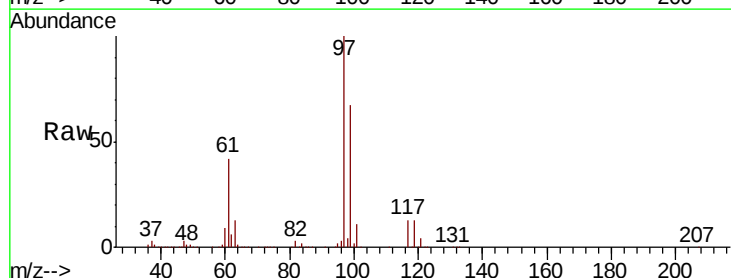
Acq: 22 Sep 2020 16:41

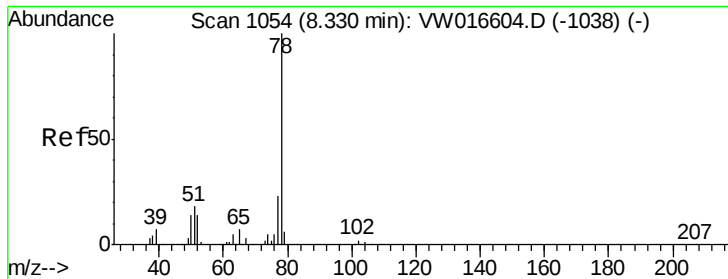
Tgt Ion: 117 Resp: 278594

Ion Ratio Lower Upper

117 100

119 95.5 78.2 117.4





#34

Benzene

Concen: 0.332 ug/L

RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

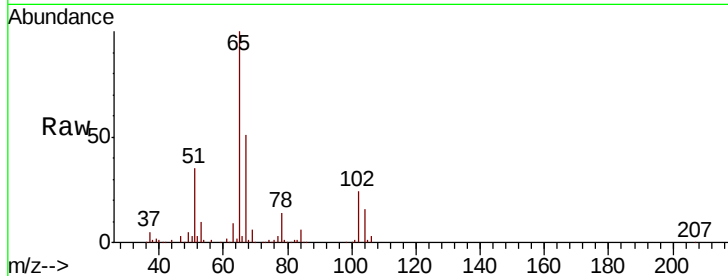
Instrument :

MSVOA_W

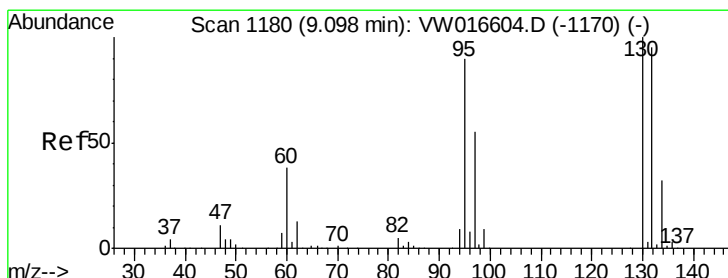
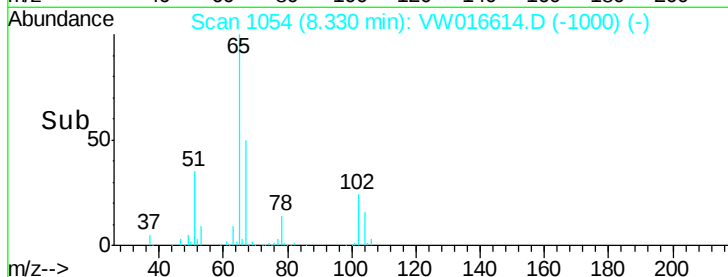
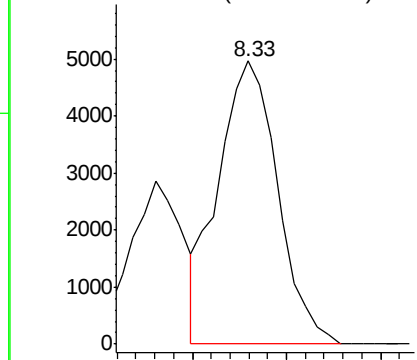
ClientSampleId :

BG3W8

Tgt Ion: 78 Resp: 10886



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 18.933 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

Tgt Ion: 95 Resp: 179529

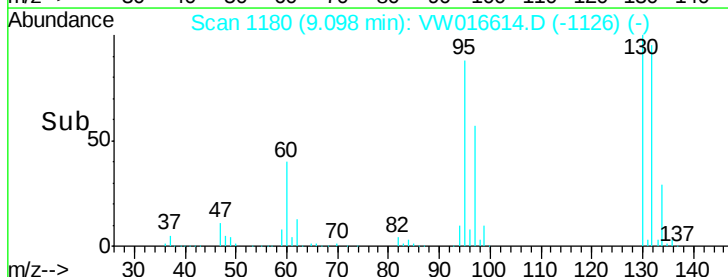
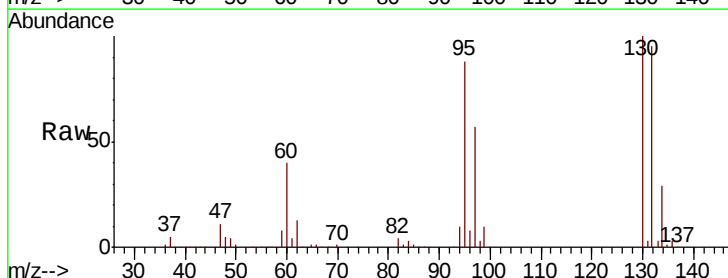
Ion	Ratio	Lower	Upper
95	100		
97	63.9	45.2	84.0
132	105.4	73.3	136.1
130	108.7	77.5	143.9

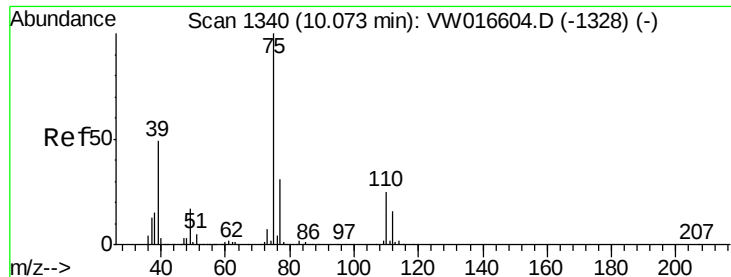
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

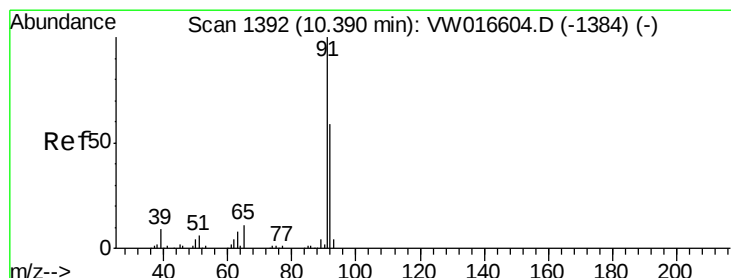
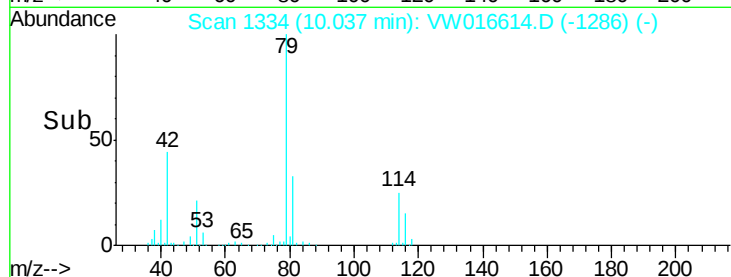
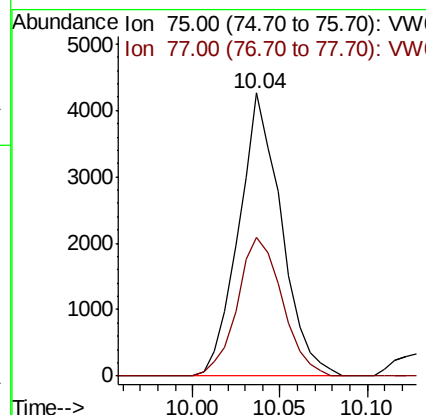
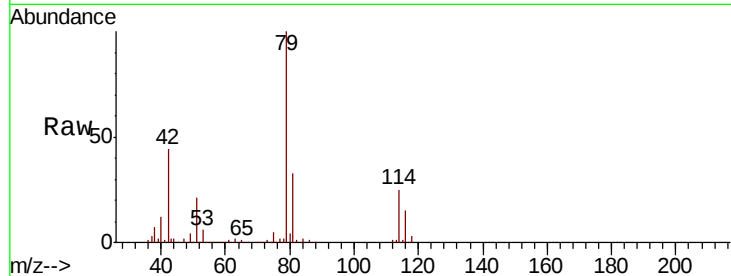




#42
 cis-1,3-Dichloropropene
 Concen: 0.555 ug/L
 RT: 10.04 min Scan# 1334
 Delta R.T. -0.04 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

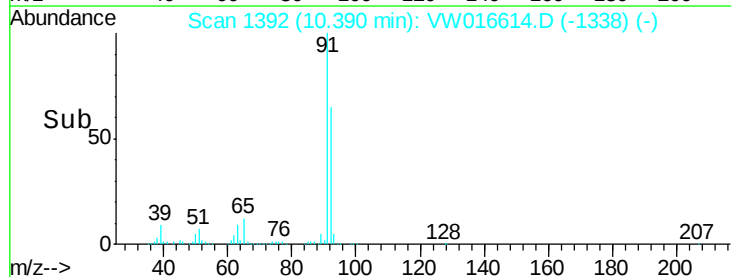
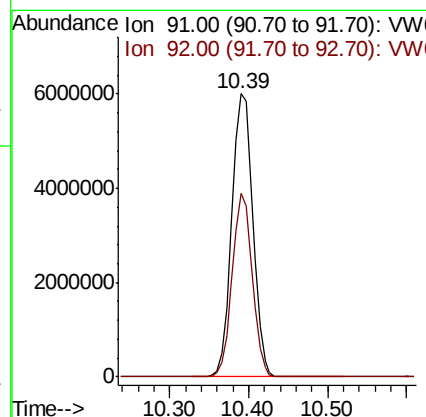
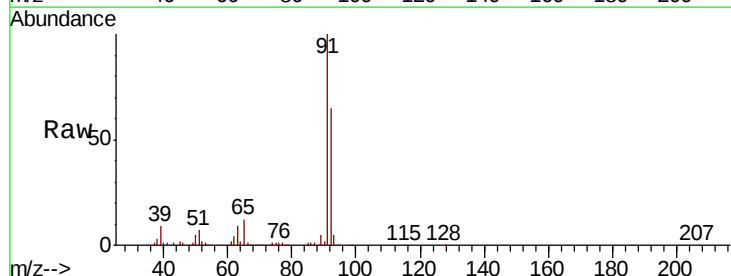
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W8

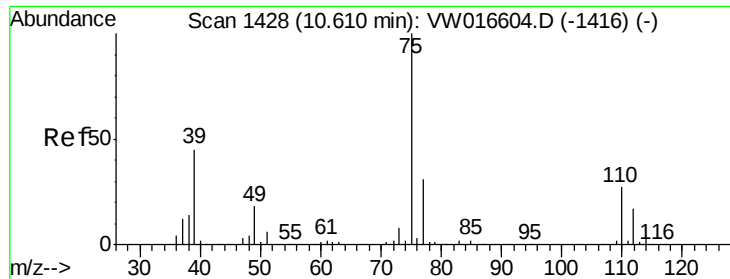
Tot Ion: 75 Resp: 7223
 Ion Ratio Lower Upper
 75 100
 77 48.9 22.2 41.2#



#44
 Toluene
 Concen: 303.285 ug/L
 RT: 10.39 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

Tgt Ion: 91 Resp: 11177337
 Ion Ratio Lower Upper
 91 100
 92 64.8 39.6 73.6

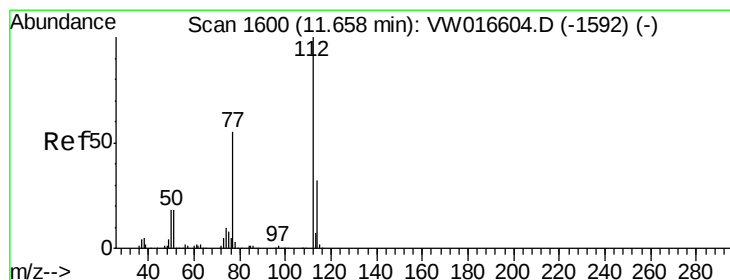
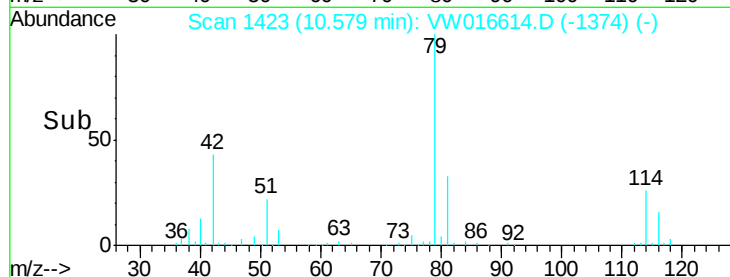
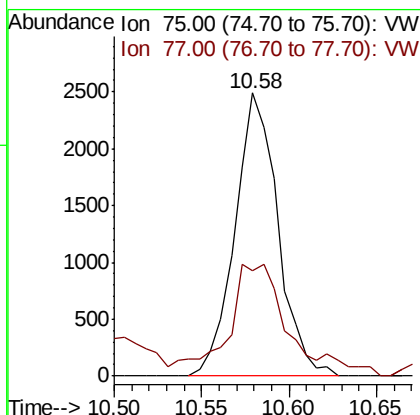
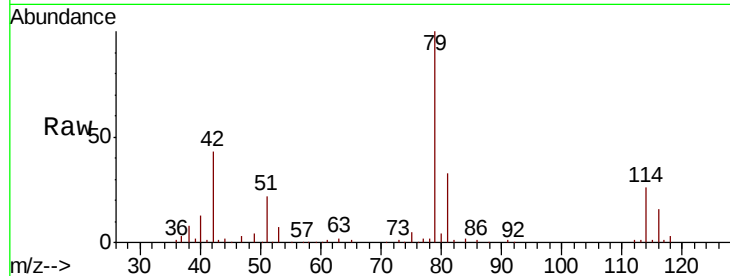




#45
trans-1,3-Dichloropropene
Concen: 0.375 ug/L
RT: 10.58 min Scan# 1423
Delta R.T. -0.03 min
Lab File: VW016614.D
Acq: 22 Sep 2020 16:41

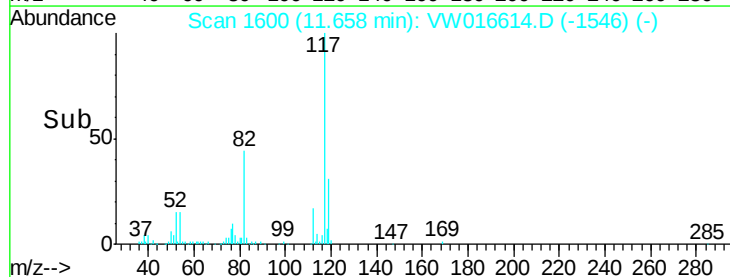
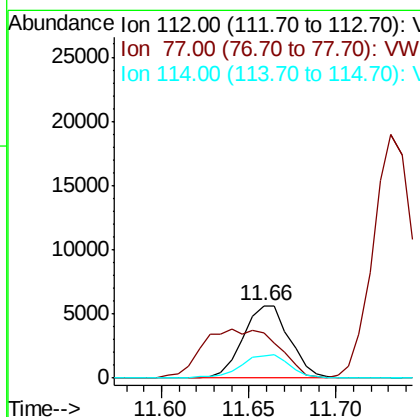
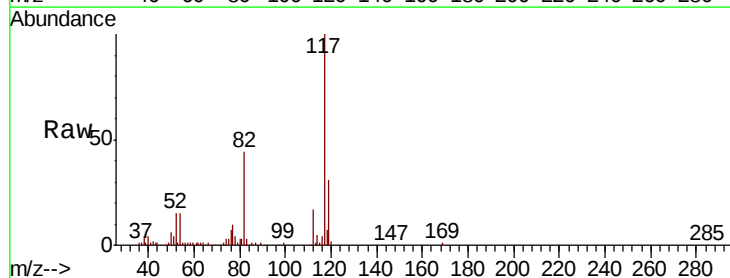
Instrument :
MSVOA_W
ClientSampled :
BG3W8

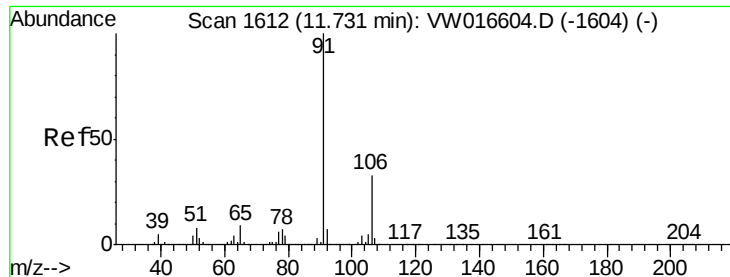
Tot Ion: 75 Resp: 4253
Ion Ratio Lower Upper
75 100
77 37.3 22.5 41.9



#52
Chlorobenzene
Concen: 0.422 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW016614.D
Acq: 22 Sep 2020 16:41

Tgt Ion: 112 Resp: 10440
Ion Ratio Lower Upper
112 100
77 62.9 43.1 64.7
114 31.3 22.3 41.3

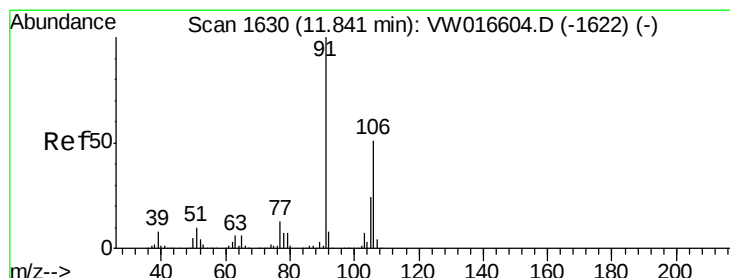
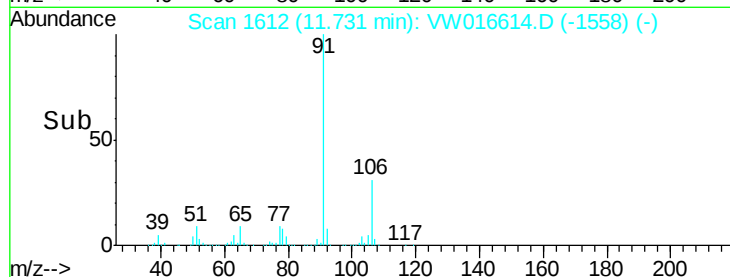
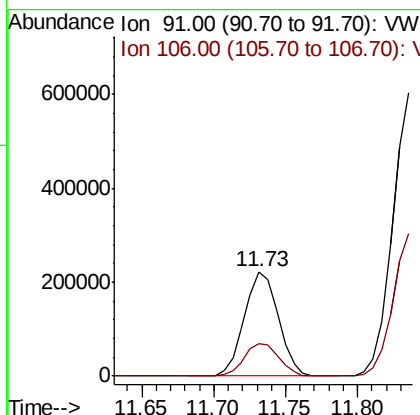
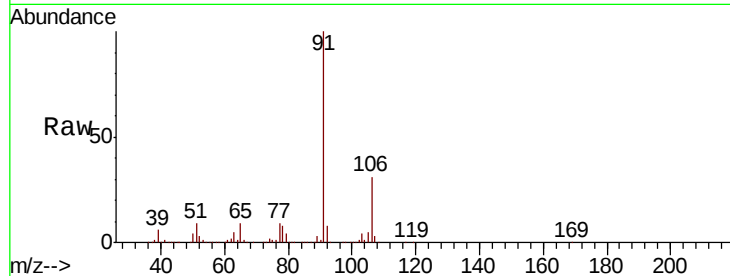




#53
Ethylbenzene
Concen: 8.716 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016614.D
Acq: 22 Sep 2020 16:41

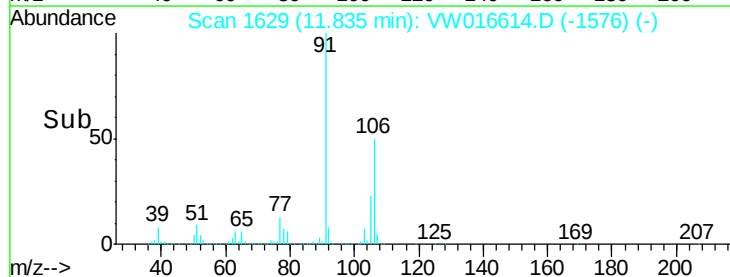
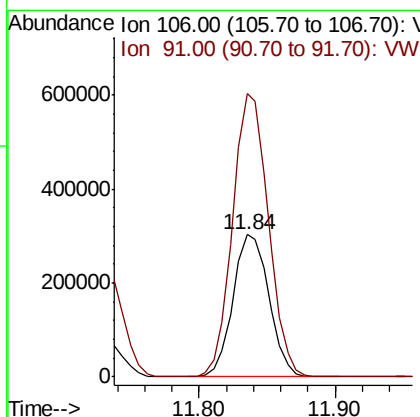
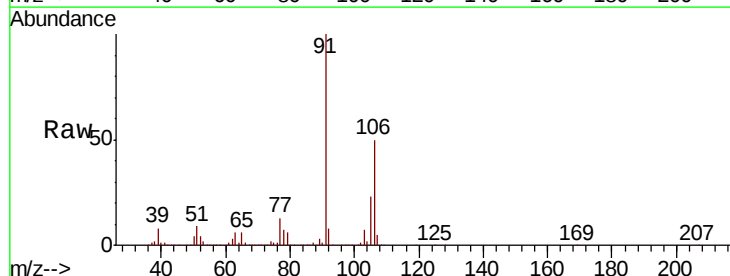
Instrument :
MSVOA_W
ClientSampleId :
BG3W8

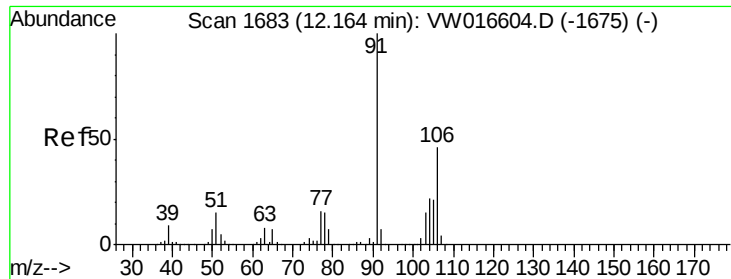
Tot Ion: 91 Resp: 364681
Ion Ratio Lower Upper
91 100
106 31.2 20.7 38.5



#54
m,p-Xylene
Concen: 34.104 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW016614.D
Acq: 22 Sep 2020 16:41

Tgt Ion: 106 Resp: 558760
Ion Ratio Lower Upper
106 100
91 199.0 139.7 259.5

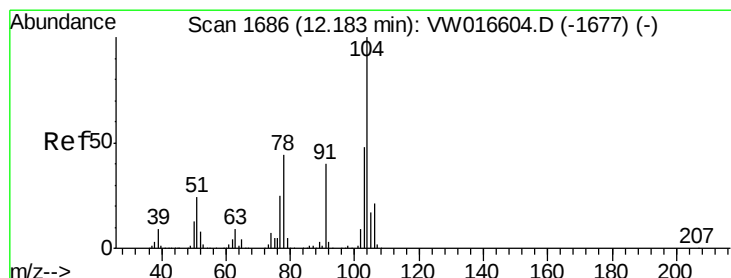
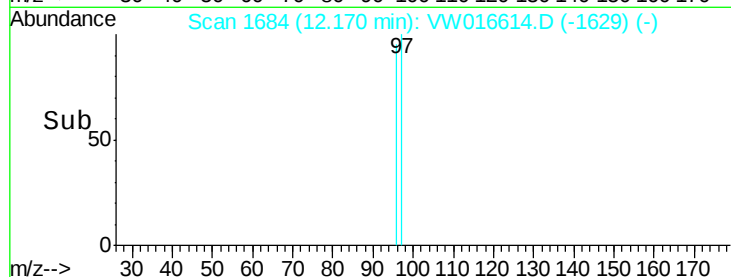
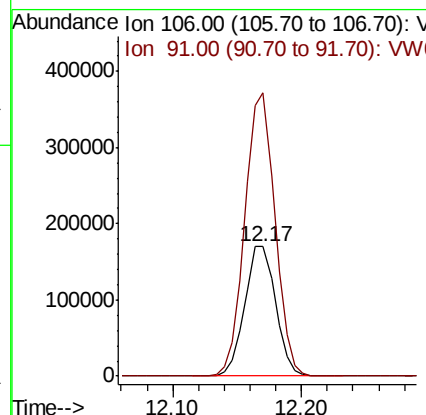
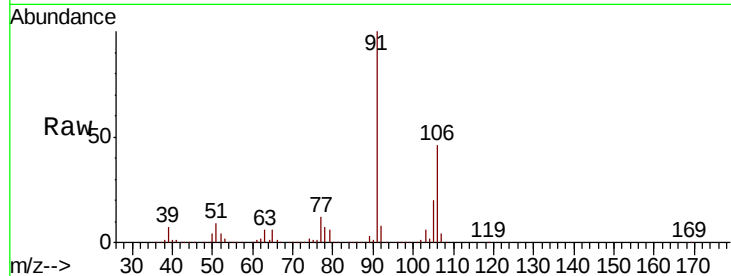




#55
o-xylene
Concen: 17.994 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW016614.D
Acq: 22 Sep 2020 16:41

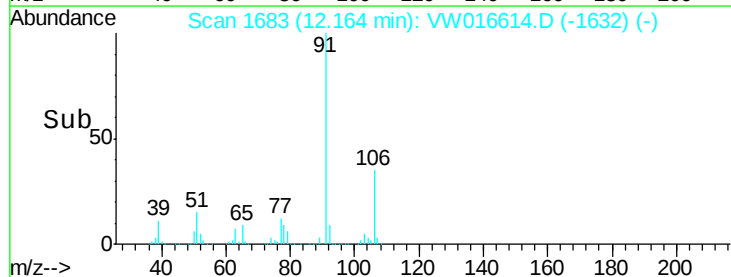
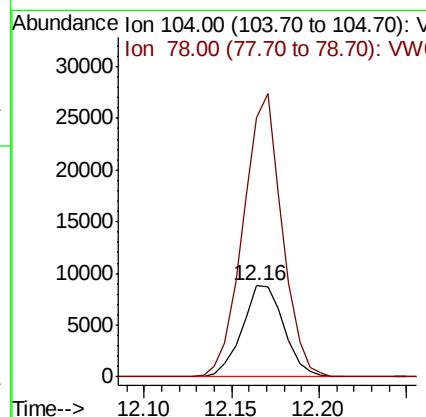
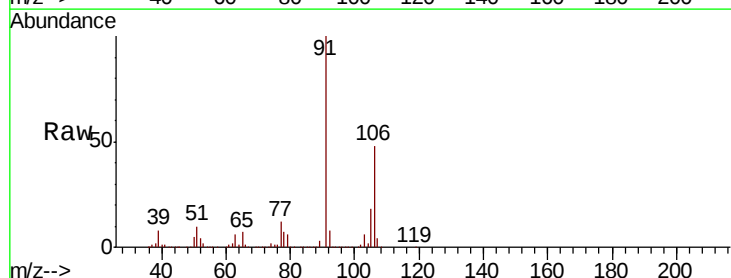
Instrument :
MSVOA_W
ClientSampled :
BG3W8

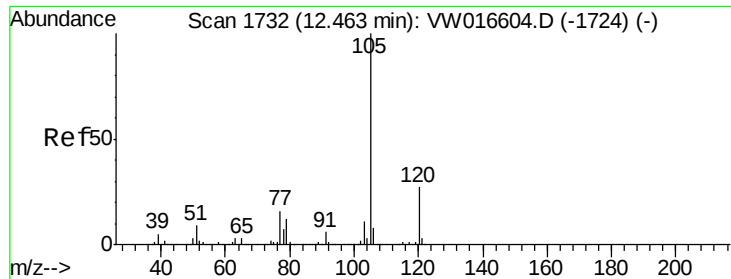
Tot Ion:106 Resp: 282442
Ion Ratio Lower Upper
106 100
91 218.2 144.8 268.8



#56
Styrene
Concen: 0.563 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.02 min
Lab File: VW016614.D
Acq: 22 Sep 2020 16:41

Tgt Ion:104 Resp: 14671
Ion Ratio Lower Upper
104 100
78 284.7 31.4 58.2#





#57

Isopropylbenzene

Concen: 2.966 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

Instrument :

MSVOA_W

ClientSampled :

BG3W8

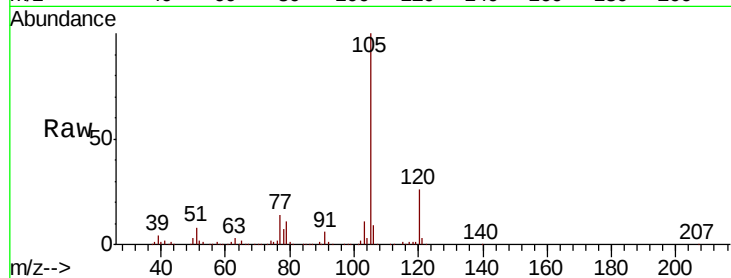
Tot Ion:105 Resp: 127230

Ion Ratio Lower Upper

105 100

120 26.8 21.8 32.8

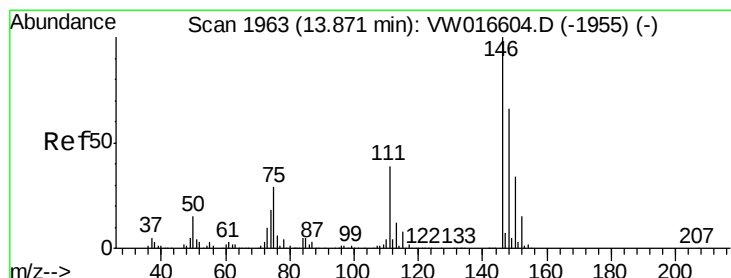
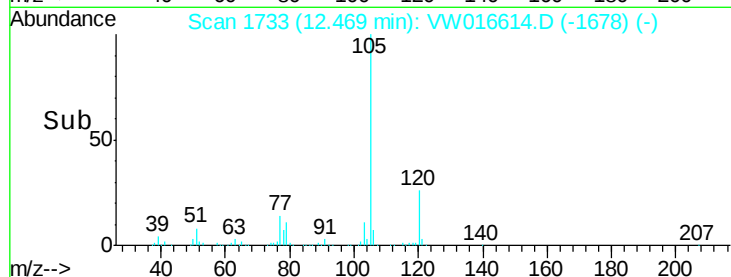
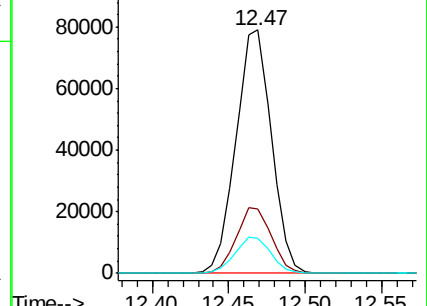
77 15.0 12.2 18.2



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): V



#65

1,2-Dichlorobenzene

Concen: 0.452 ug/L

RT: 13.88 min Scan# 1964

Delta R.T. 0.01 min

Lab File: VW016614.D

Acq: 22 Sep 2020 16:41

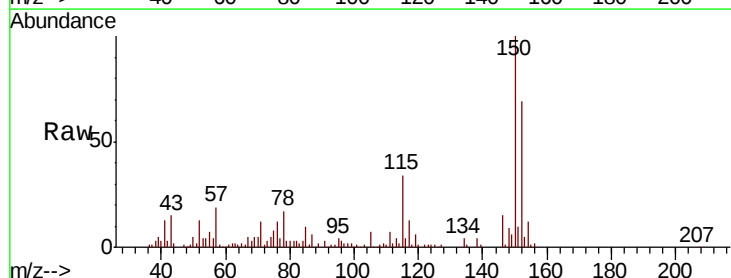
Tgt Ion:146 Resp: 7830

Ion Ratio Lower Upper

146 100

111 46.7 31.4 47.0

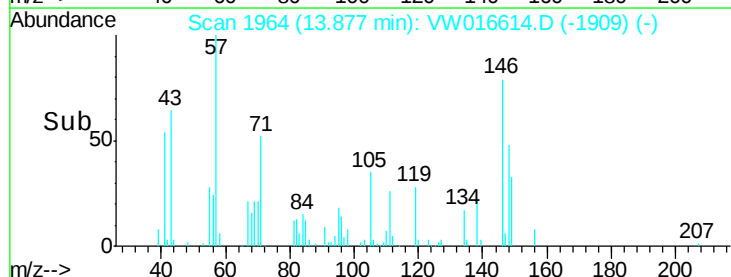
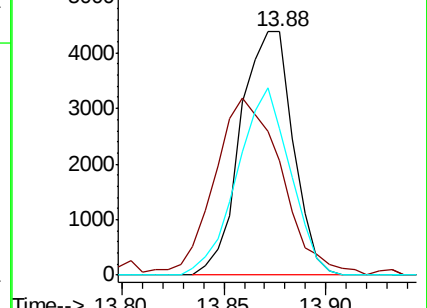
148 59.9 49.3 73.9

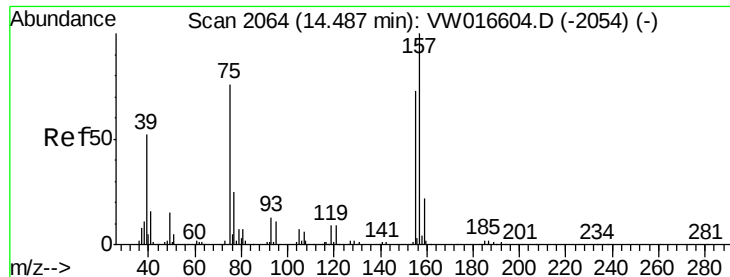


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

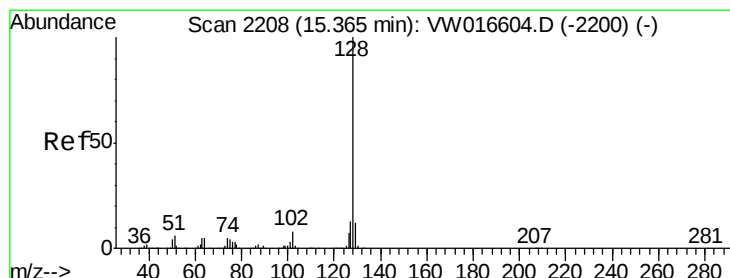
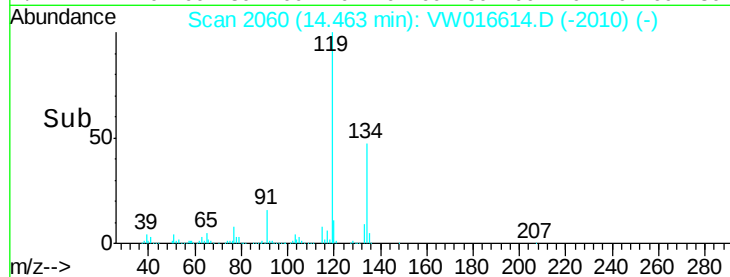
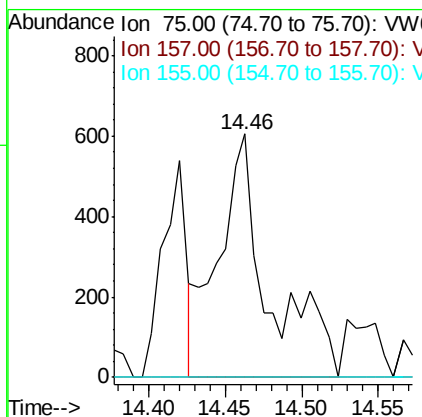
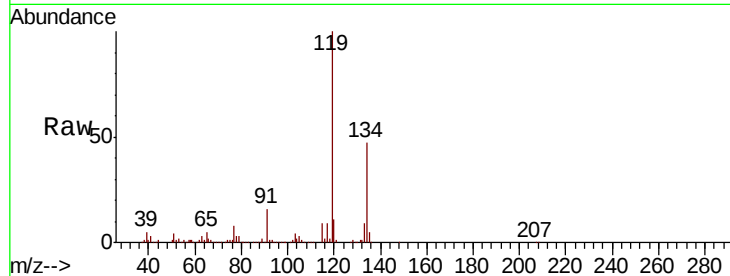




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.106 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W8

Tot Ion: 75 Resp: 1374
 Ion Ratio Lower Upper
 75 100
 157 0.0 92.2 138.4#
 155 0.0 73.5 110.3#



#69
 Naphthalene
 Concen: 7.729 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW016614.D
 Acq: 22 Sep 2020 16:41

Tgt Ion: 128 Resp: 157190
 Ion Ratio Lower Upper
 128 100
 129 11.2 8.9 13.3
 127 13.2 10.8 16.2

