

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081320\
 Data File : VW016178.D
 Acq On : 13 Aug 2020 13:51
 Operator : SY/VA
 Sample : L3599-19
 Misc : 5.99G/10ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GAYA1

Quant Time: Aug 14 06:21:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM081020S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 14 06:19:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.90	114	156978	25.00	ug/L	0.06
28) Chlorobenzene-d5	11.64	117	243790	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	56875	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	93685	48.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	192.56%#
7) Chloroethane-d5	2.89	69	63818	43.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	172.80%#
10) 1,1-Dichloroethene-d2	4.04	63	770860	186.48	ug/L	0.03
Spiked Amount	25.000	Range	45 - 110	Recovery	=	745.92%#
20) 2-Butanone-d5	7.12	46	48846	95.38	ug/L	0.04
Spiked Amount	50.000	Range	20 - 135	Recovery	=	190.76%#
24) Chloroform-d	7.67	84	165978	39.40	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	157.60%#
26) 1,2-Dichloroethane-d4	8.33	65	94088	42.05	ug/L	0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	168.20%#
29) Benzene-d6	8.32	84	347641	26.21	ug/L	0.05
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.84%
33) 1,2-Dichloropropane-d6	9.38	67	108710	27.87	ug/L	0.11
Spiked Amount	25.000	Range	70 - 120	Recovery	=	111.48%
37) Toluene-d8	10.34	98	281625	23.15	ug/L	0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.60%
38) trans-1,3-Dichloropropene-	10.59	79	41142	23.47	ug/L	0.01
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.88%
39) 2-Hexanone-d5	10.93	63	38895	57.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.62%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	56216	17.71	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	70.84%
61) 1,2-Dichlorobenzene-d4	13.86	152	35997	17.86	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	71.44%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.36	62	164731	78.815	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.03	101	4166	1.976	ug/L #	23
13) Acetone	4.15	43	7457	19.248	ug/L	83
14) Carbon disulfide	4.40	76	1773	0.280	ug/L #	91
16) Methylene chloride	4.92	84	7884	3.181	ug/L	79
18) trans-1,2-Dichloroethene	5.45	96	454306	214.364	ug/L	89
19) 1,1-Dichloroethane	6.24	63	578036	154.152	ug/L	98
22) cis-1,2-Dichloroethene	7.18	96	25611221	11455.361	ug/L	94
25) Chloroform	7.70	83	15774	3.954	ug/L	90
31) 1,1,1-Trichloroethane	7.89	97	525461	93.800	ug/L	99
32) Carbon tetrachloride	7.89	117	68823	12.990	ug/L	98
34) Benzene	8.35	78	9193	0.654	ug/L	100
35) Trichloroethene	9.09	95	16395709	4337.250	ug/L	86
40) 1,2-Dichloropropane	9.38	63	13840	4.009	ug/L #	1
42) cis-1,3-Dichloropropene	10.05	75	2747	0.522	ug/L #	67
44) Toluene	10.40	91	6656393	448.530	ug/L	97
46) 1,1,2-Trichloroethane	10.80	97	69009	25.393	ug/L	95

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Quant Title : VOC Analysis
QLast Update : Fri Aug 14 06:19:29 2020
Response via : Initial Calibration

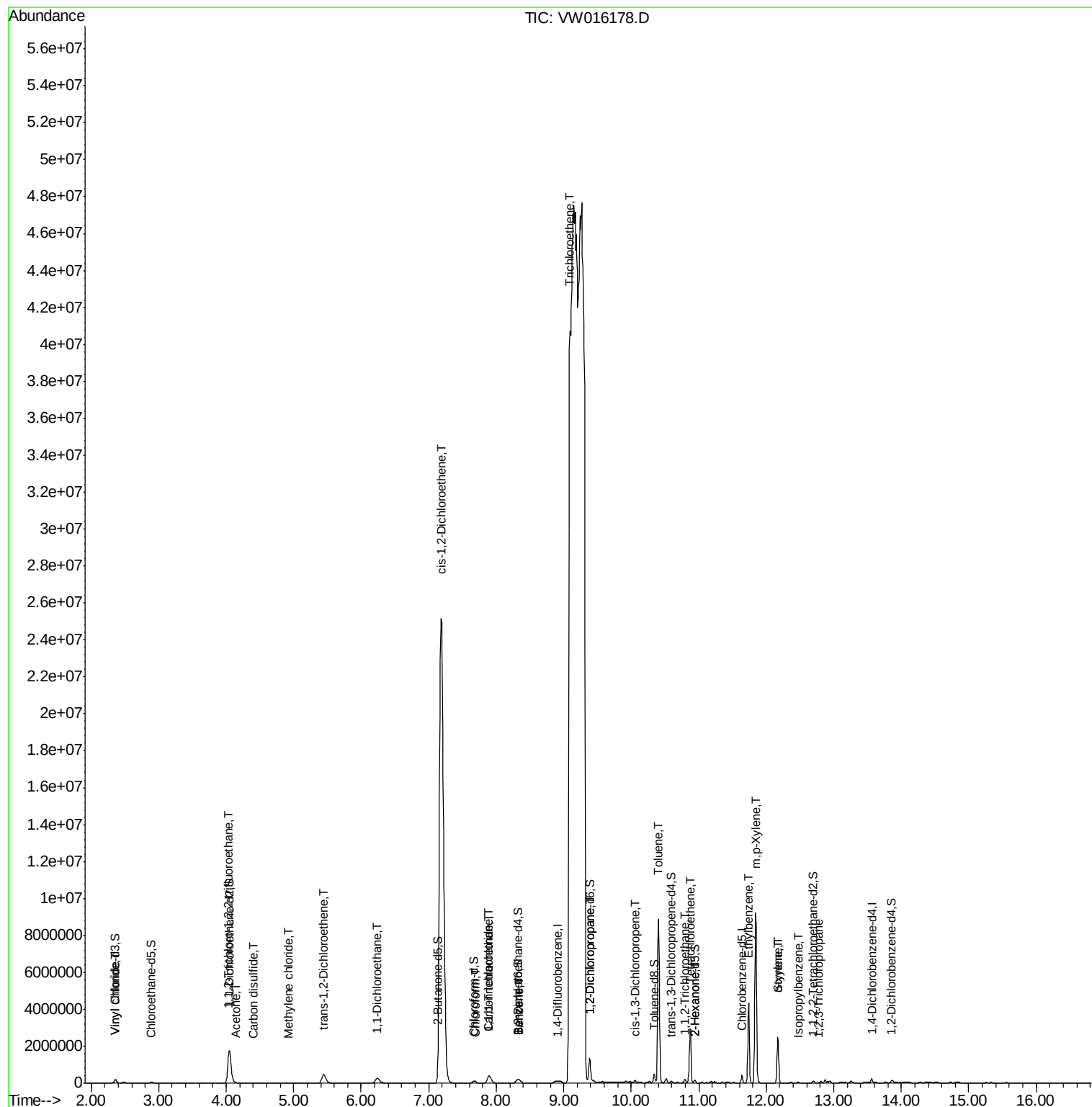
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	10.87	164	686708	242.317	ug/L	99
49) 2-Hexanone	10.94	43	20550	14.666	ug/L #	32
53) Ethylbenzene	11.74	91	3074363	182.588	ug/L	99
54) m,p-Xylene	11.84	106	2904069	458.502	ug/L	97
55) o-xylene	12.17	106	673723	112.927	ug/L	96
56) Styrene	12.17	104	33222	3.216	ug/L #	1
57) Isopropylbenzene	12.47	105	32626	2.028	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	2175	0.905	ug/L #	74

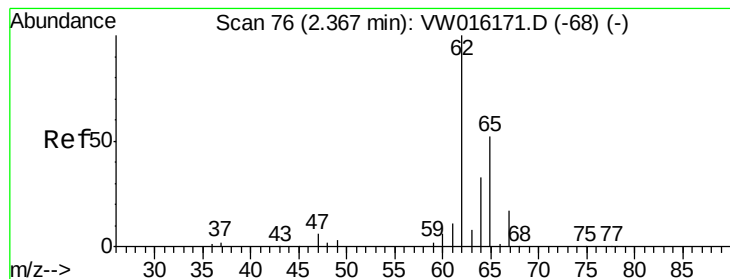
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081320\
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#5

Vinyl chloride

Concen: 78.815 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

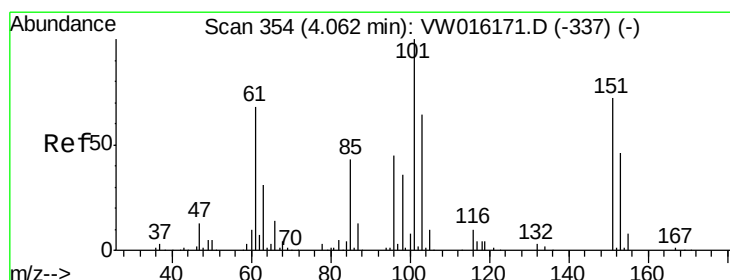
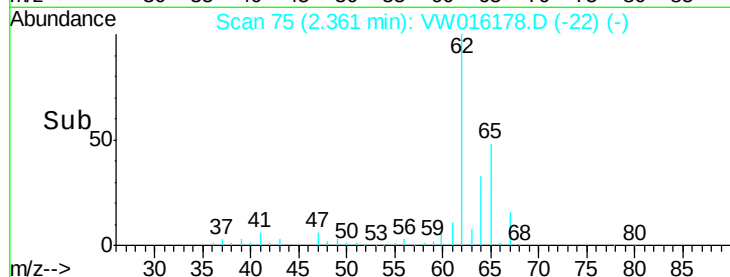
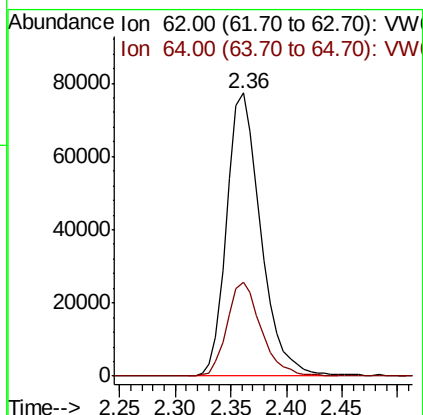
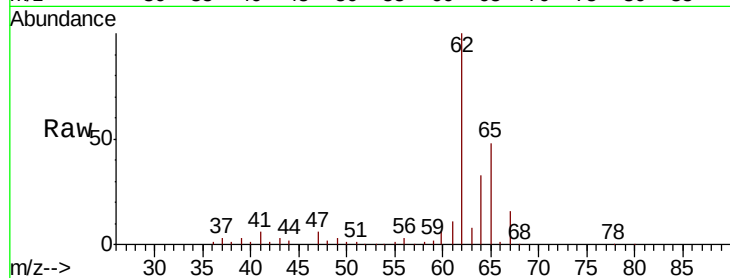
GAYA1

Tot Ion: 62 Resp: 164731

Ion Ratio Lower Upper

62 100

64 33.3 23.0 42.8



#11

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

Concen: 1.976 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.03 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

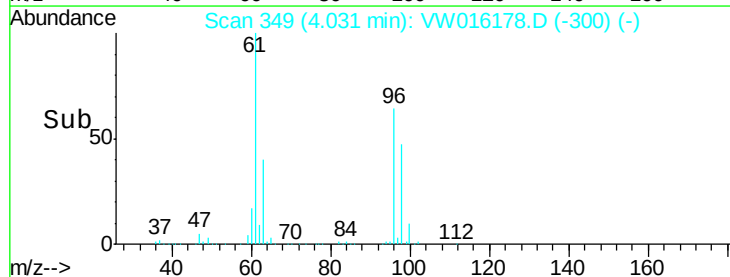
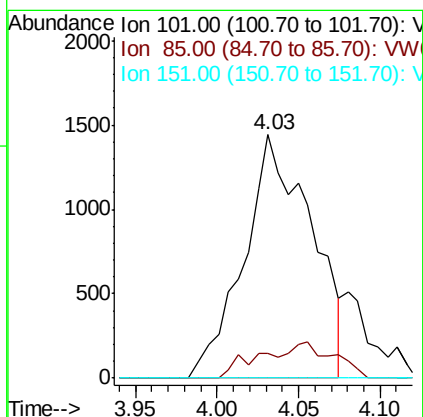
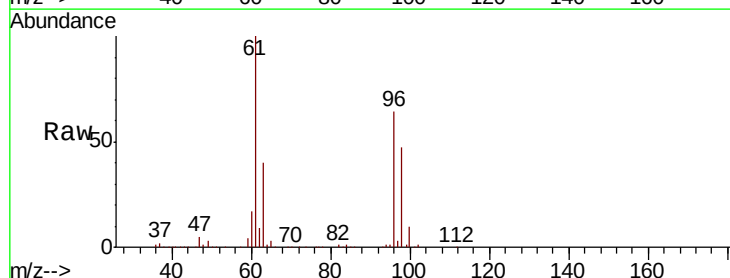
Tgt Ion: 101 Resp: 4166

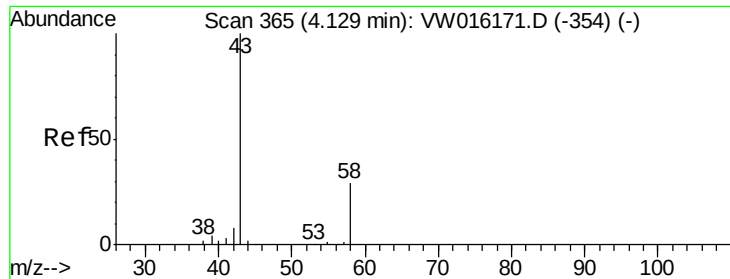
Ion Ratio Lower Upper

101 100

85 3.7 34.2 51.4#

151 0.0 57.4 86.2#





#13

Acetone

Concen: 19.248 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

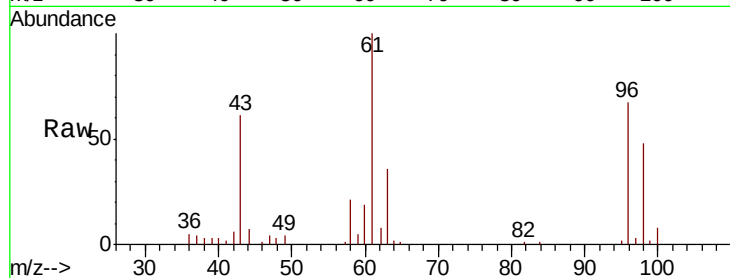
GAYA1

Tot Ion: 43 Resp: 7457

Ion Ratio Lower Upper

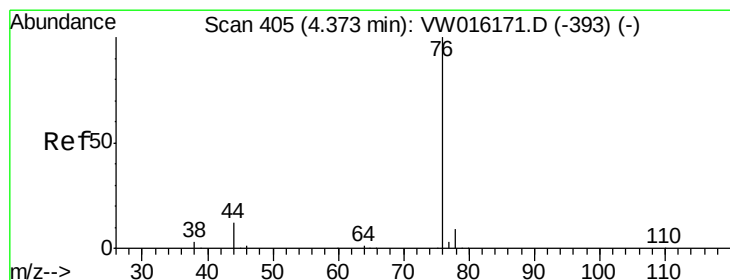
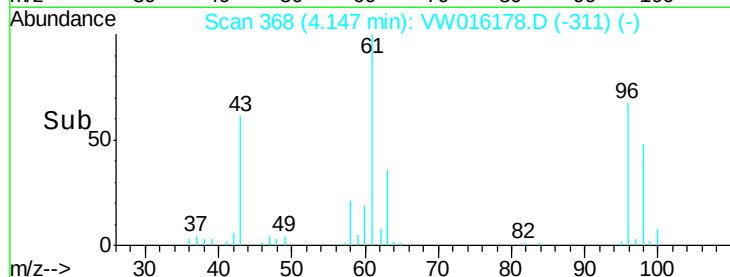
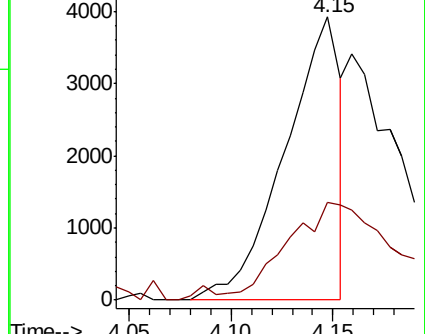
43 100

58 38.7 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.280 ug/L

RT: 4.40 min Scan# 409

Delta R.T. 0.02 min

Lab File: VW016178.D

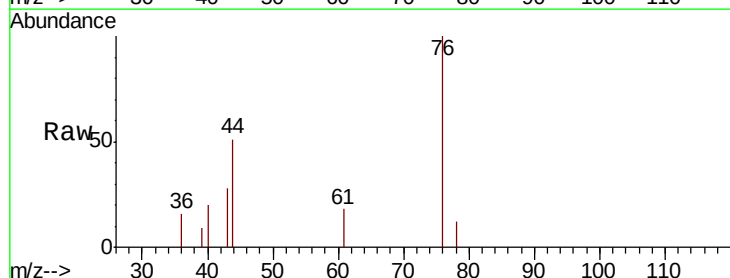
Acq: 13 Aug 2020 13:51

Tgt Ion: 76 Resp: 1773

Ion Ratio Lower Upper

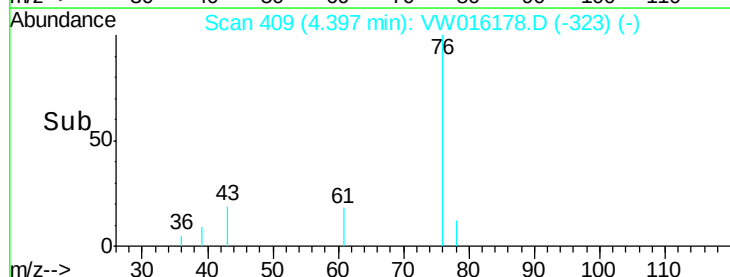
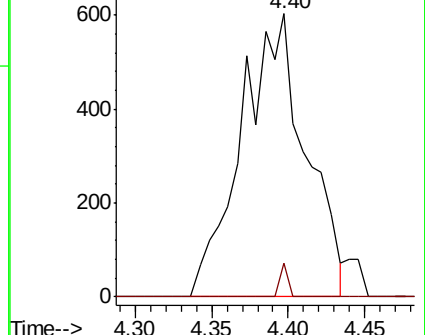
76 100

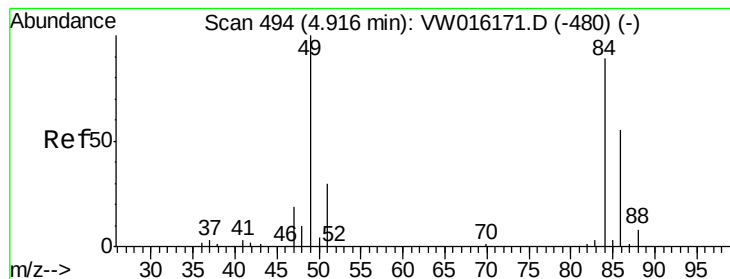
78 11.8 7.0 10.4#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#16

Methylene chloride

Concen: 3.181 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampled :

GAYA1

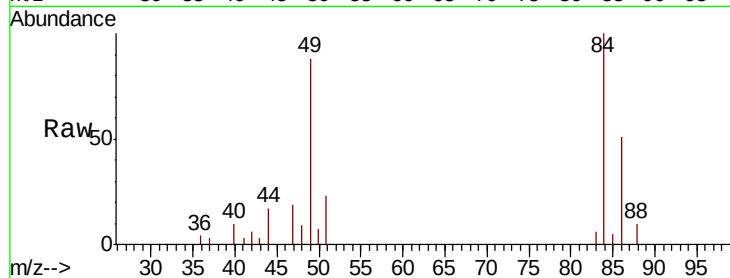
Tot Ion: 84 Resp: 7884

Ion Ratio Lower Upper

84 100

49 87.7 80.4 149.4

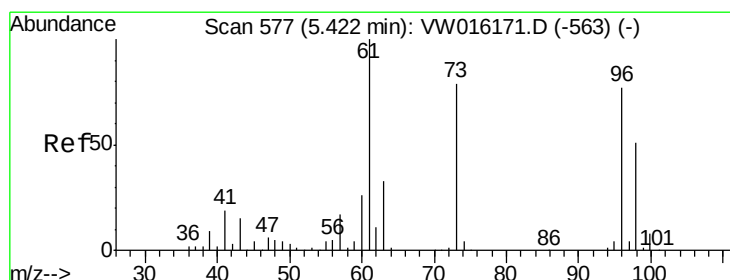
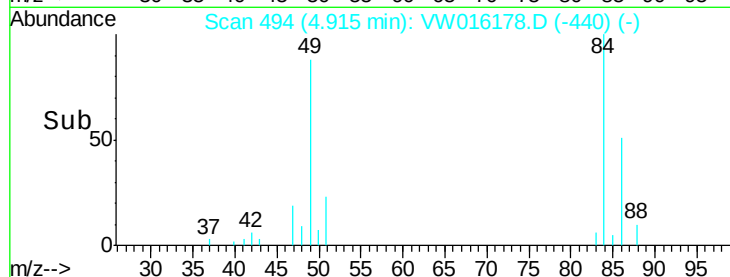
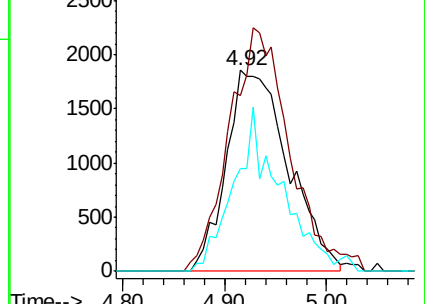
86 51.3 43.8 81.3



Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW



#18

trans-1,2-Dichloroethene

Concen: 214.364 ug/L

RT: 5.45 min Scan# 581

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

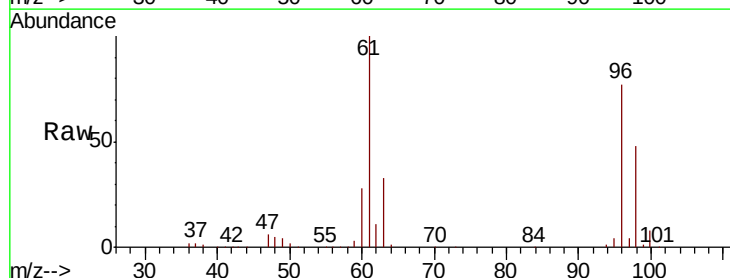
Tgt Ion: 96 Resp: 454306

Ion Ratio Lower Upper

96 100

61 129.3 101.6 188.8

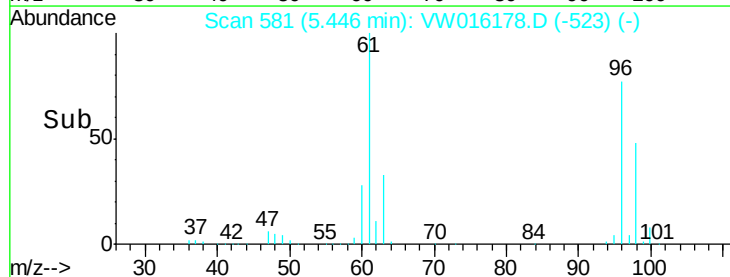
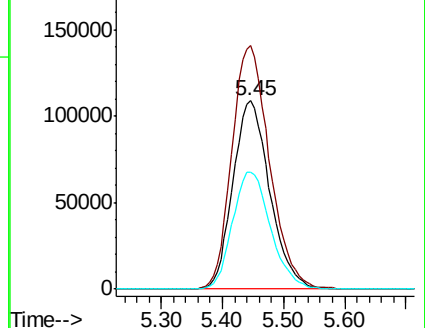
98 62.1 47.7 88.7

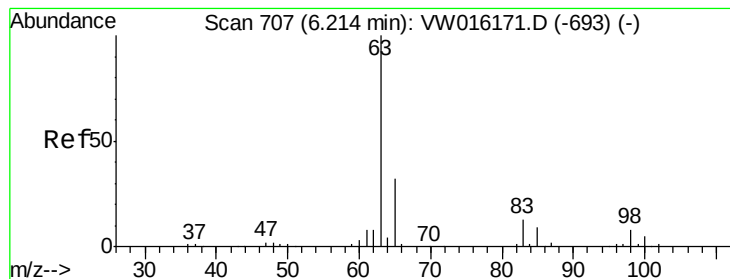


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 154.152 ug/L

RT: 6.24 min Scan# 711

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

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ClientSampleId :

GAYA1

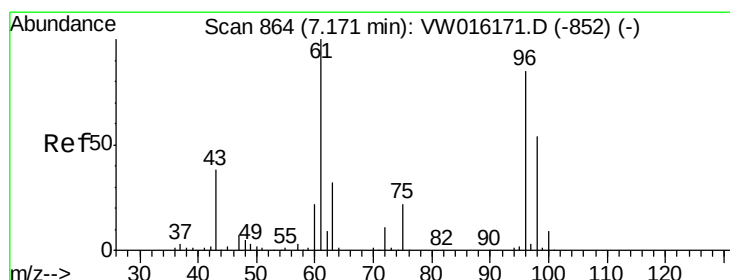
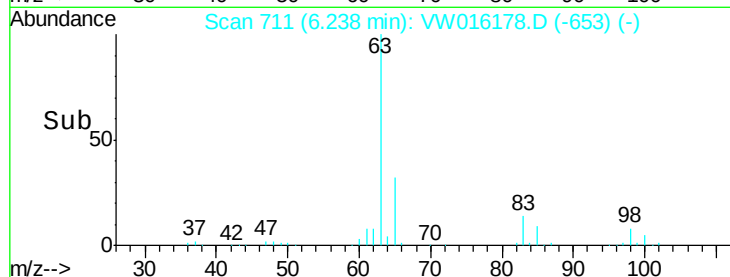
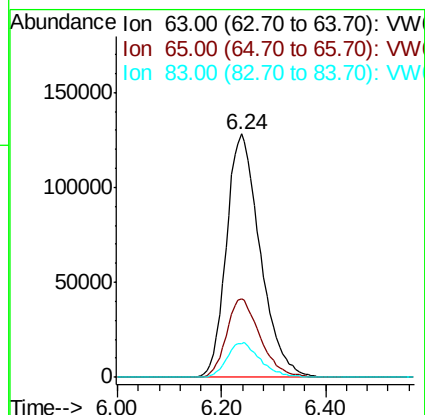
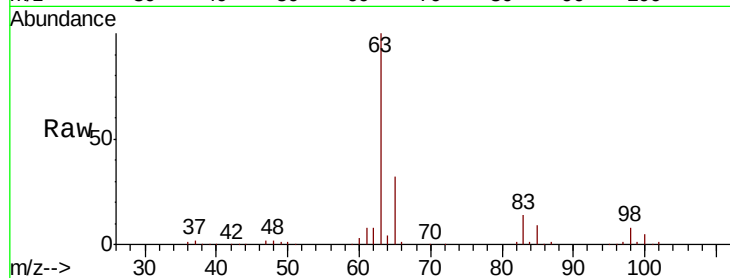
Tot Ion: 63 Resp: 578036

Ion Ratio Lower Upper

63 100

65 32.3 21.6 40.0

83 13.8 9.8 18.2



#22

cis-1,2-Dichloroethene

Concen: 11455.361 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

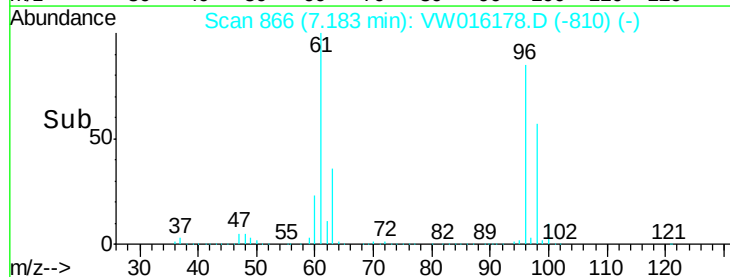
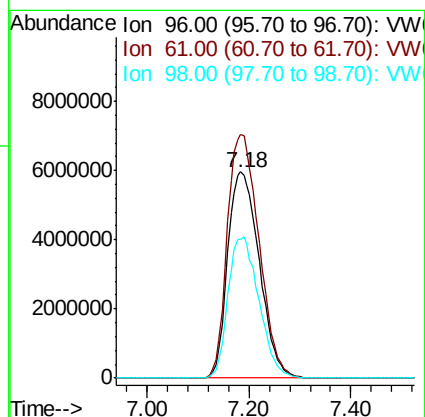
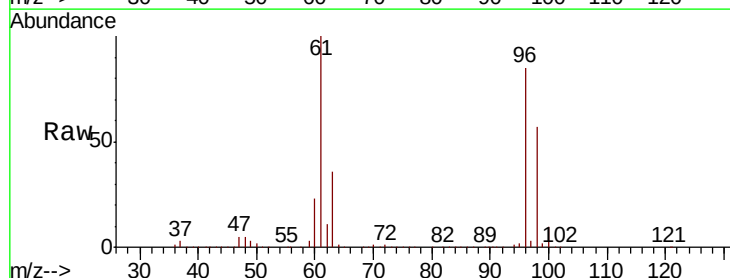
Tgt Ion: 96 Resp: 25611221

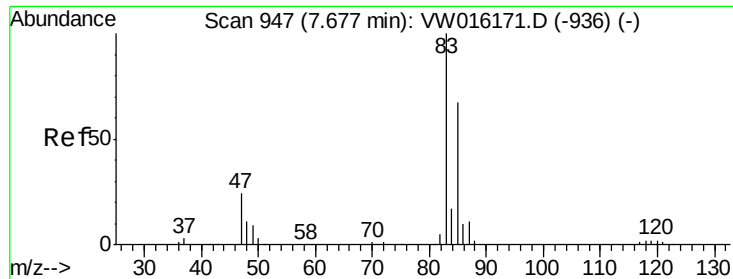
Ion Ratio Lower Upper

96 100

61 118.1 87.0 161.6

98 67.4 44.0 81.6

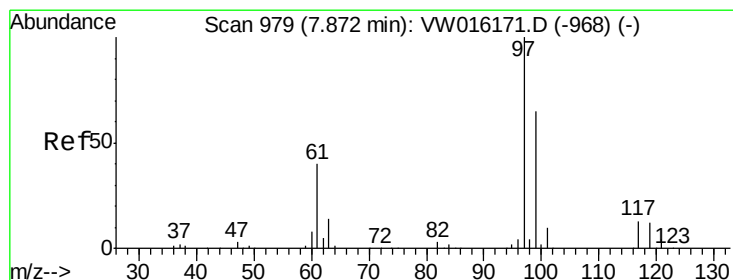
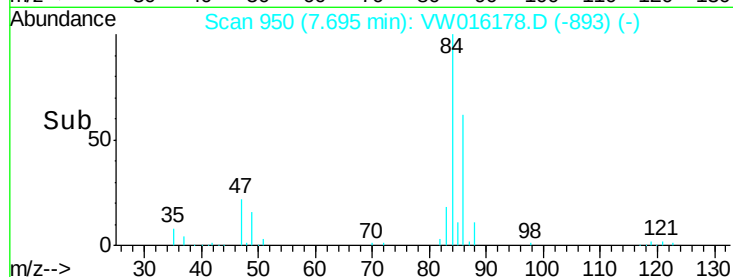
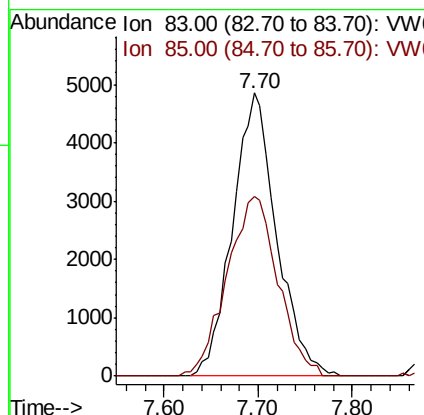
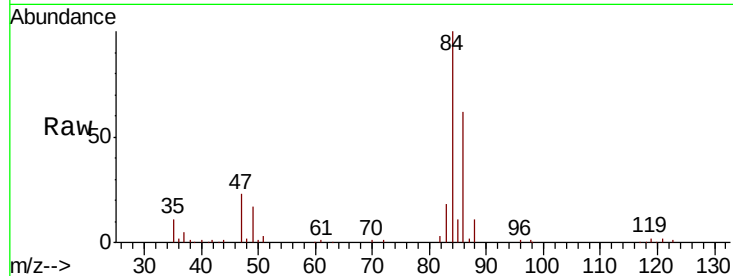




#25
Chloroform
Concen: 3.954 ug/L
RT: 7.70 min Scan# 950
Delta R.T. 0.02 min
Lab File: VW016178.D
Acq: 13 Aug 2020 13:51

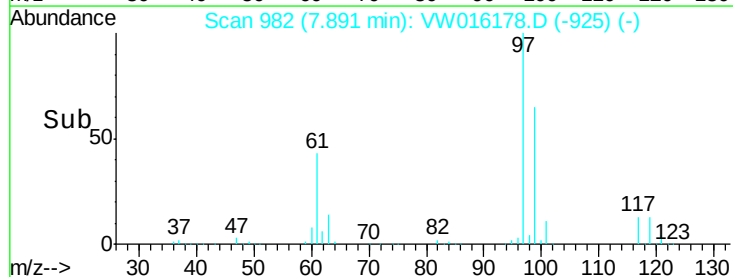
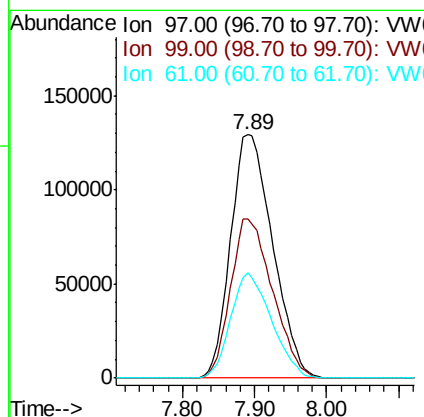
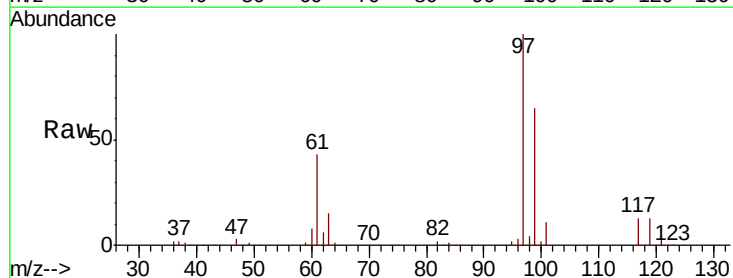
Instrument :
MSVOA_W
ClientSampled :
GAYA1

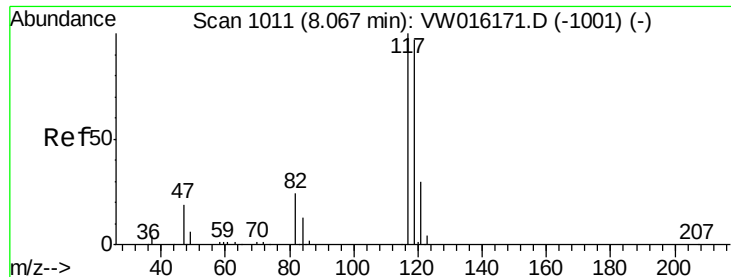
Tot Ion: 83 Resp: 15774
Ion Ratio Lower Upper
83 100
85 73.3 46.0 85.4



#31
1,1,1-Trichloroethane
Concen: 93.800 ug/L
RT: 7.89 min Scan# 982
Delta R.T. 0.02 min
Lab File: VW016178.D
Acq: 13 Aug 2020 13:51

Tgt Ion: 97 Resp: 525461
Ion Ratio Lower Upper
97 100
99 65.2 51.6 77.4
61 41.7 34.5 51.7





#32

Carbon tetrachloride

Concen: 12.990 ug/L

RT: 7.89 min Scan# 982

Delta R.T. -0.18 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

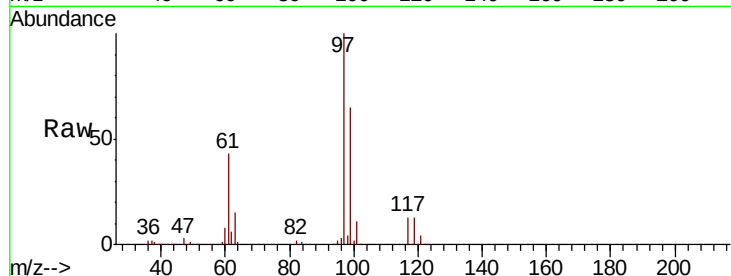
GAYA1

Tot Ion:117 Resp: 68823

Ion Ratio Lower Upper

117 100

119 95.6 75.2 112.8



Abundance Ion 117.00 (116.70 to 117.70): V

20000 Ion 119.00 (118.70 to 119.70): V

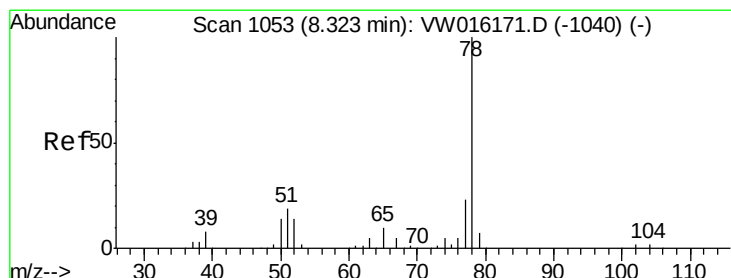
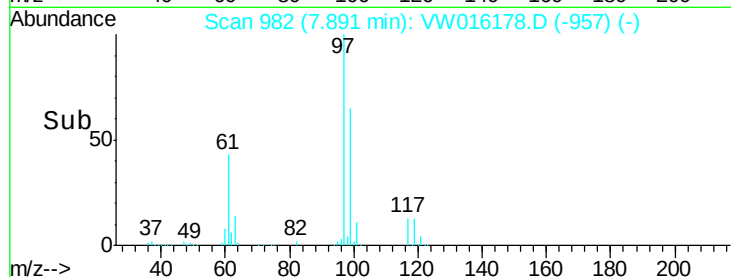
15000

10000

5000

0

Time-->



#34

Benzene

Concen: 0.654 ug/L

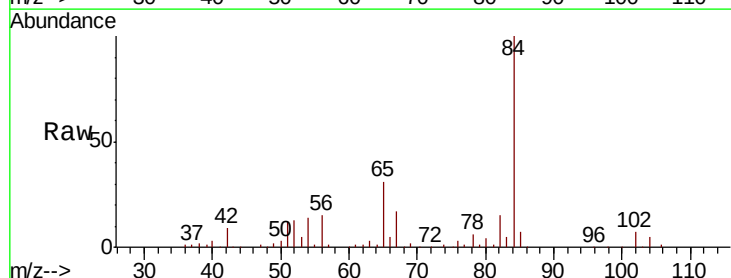
RT: 8.35 min Scan# 1057

Delta R.T. 0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Tgt Ion: 78 Resp: 9193



Abundance Ion 78.00 (77.70 to 78.70): VW

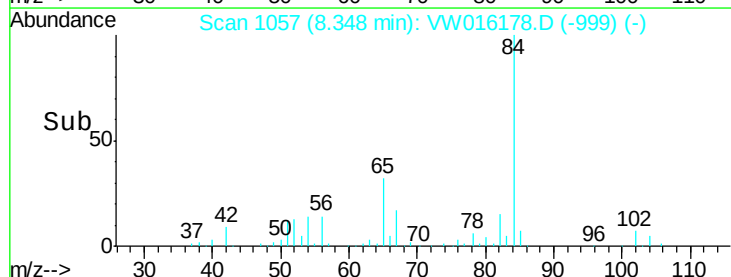
3000

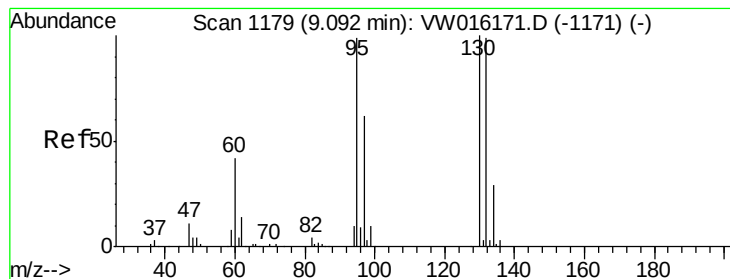
2000

1000

0

Time-->





#35

Trichloroethene

Concen: 4337.250 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

GAYA1

Tot Ion: 95 Resp:16395709

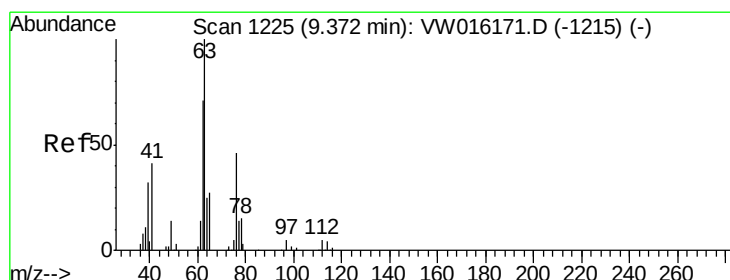
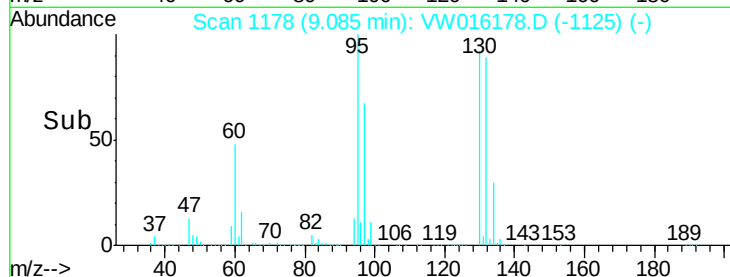
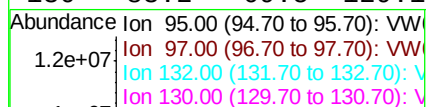
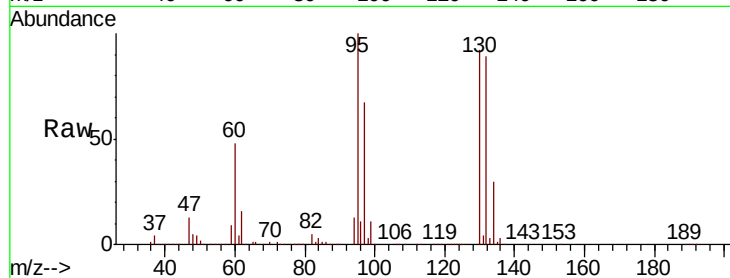
Ion Ratio Lower Upper

95 100

97 57.5 44.9 83.3

132 79.9 65.8 122.2

130 83.2 69.5 129.1



#40

1,2-Dichloropropane

Concen: 4.009 ug/L

RT: 9.38 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VW016178.D

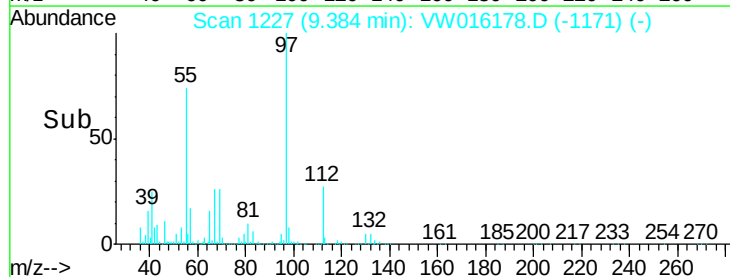
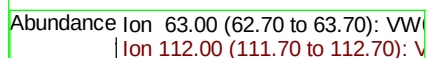
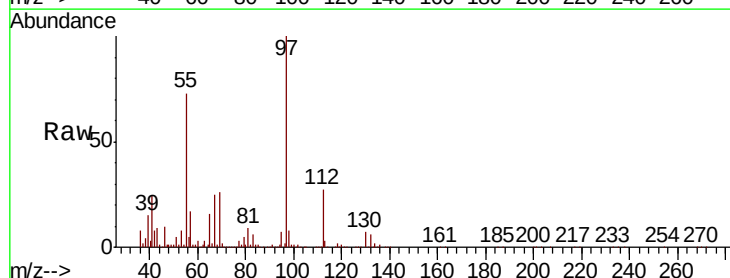
Acq: 13 Aug 2020 13:51

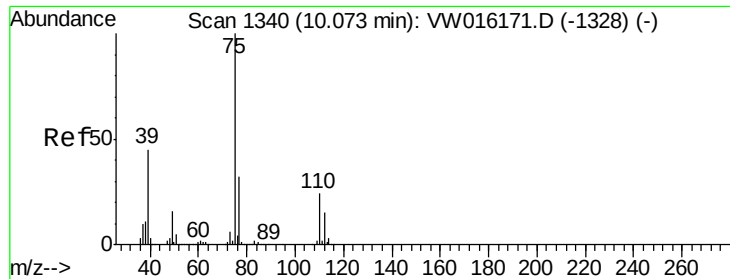
Tgt Ion: 63 Resp: 13840

Ion Ratio Lower Upper

63 100

112 936.0 4.0 6.0#





#42

cis-1,3-Dichloropropene

Concen: 0.522 ug/L

RT: 10.05 min Scan# 1337

Delta R.T. -0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

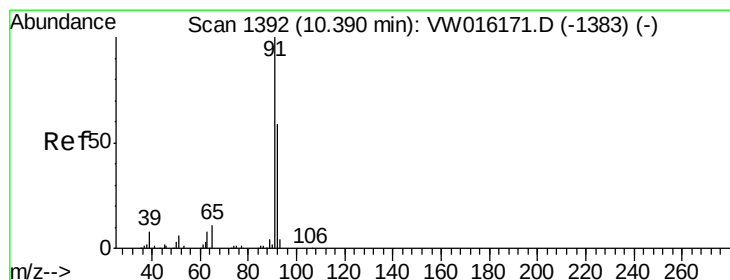
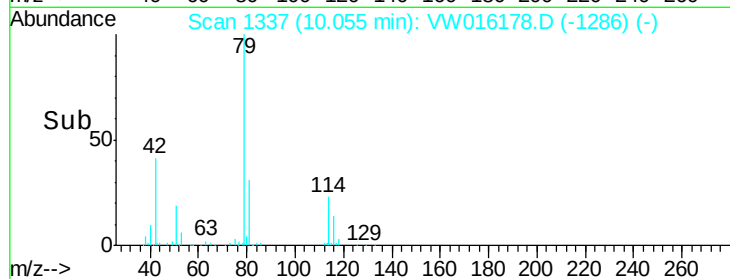
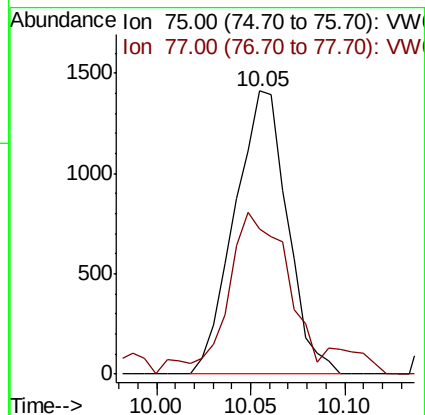
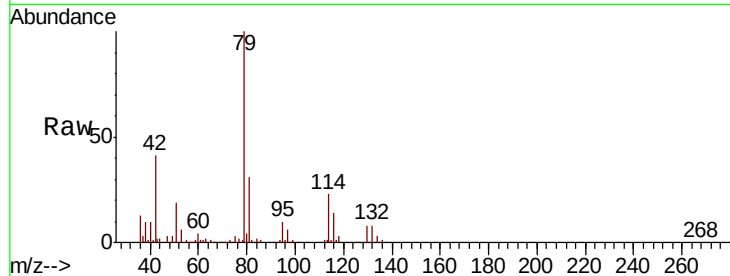
GAYA1

Tot Ion: 75 Resp: 2747

Ion Ratio Lower Upper

75 100

77 51.4 22.9 42.5#



#44

Toluene

Concen: 448.530 ug/L

RT: 10.40 min Scan# 1394

Delta R.T. 0.01 min

Lab File: VW016178.D

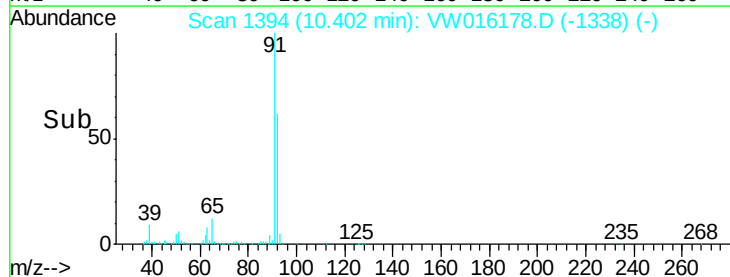
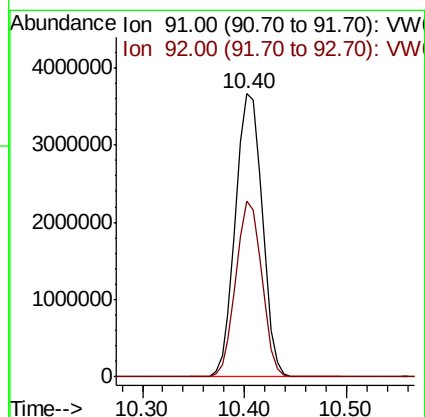
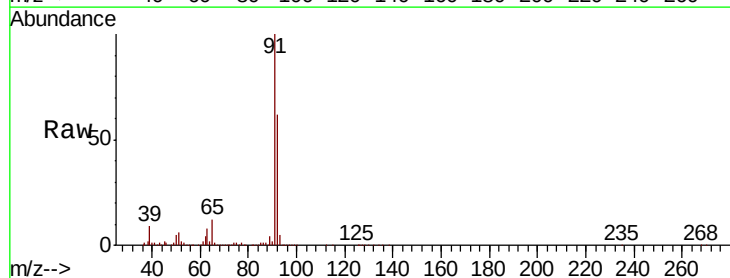
Acq: 13 Aug 2020 13:51

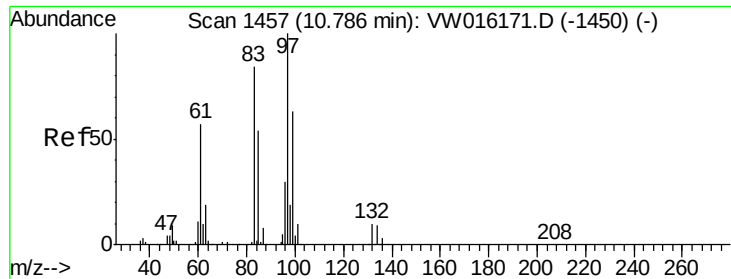
Tgt Ion: 91 Resp: 6656393

Ion Ratio Lower Upper

91 100

92 61.9 41.8 77.6





#46

1,1,2-Trichloroethane

Concen: 25.393 ug/L

RT: 10.80 min Scan# 1459

Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampled :

GAYA1

Tot Ion: 97 Resp: 69009

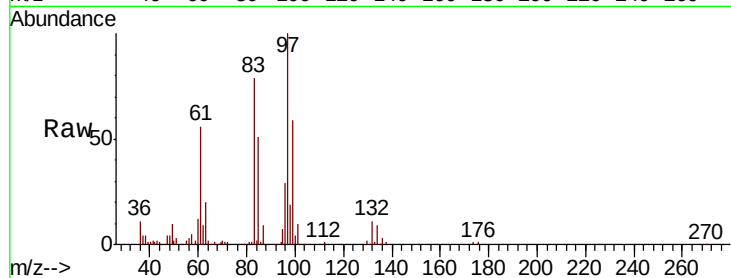
Ion Ratio Lower Upper

97 100

83 79.1 57.8 107.4

85 50.7 38.0 70.6

99 59.2 44.4 82.4



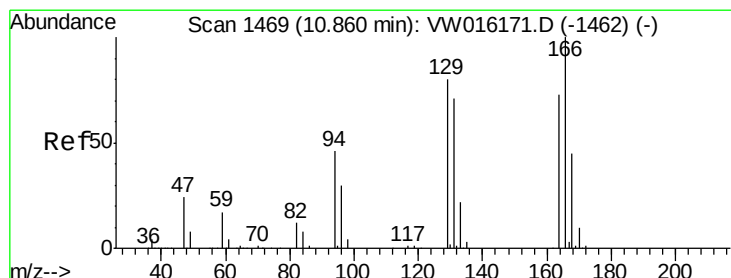
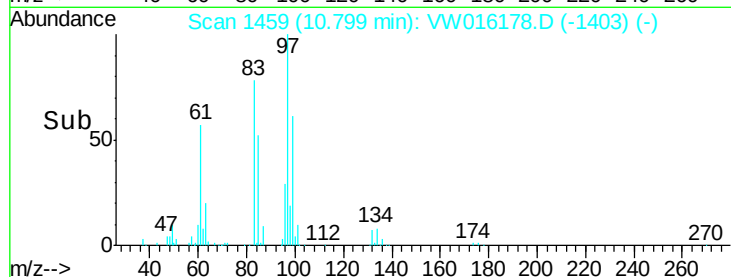
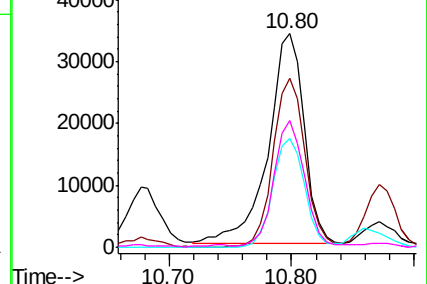
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 242.317 ug/L

RT: 10.87 min Scan# 1471

Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Tgt Ion: 164 Resp: 686708

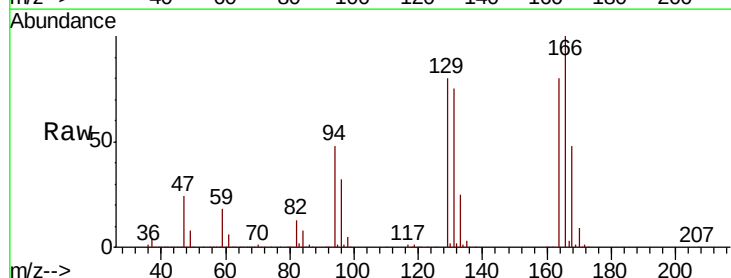
Ion Ratio Lower Upper

164 100

129 99.6 71.5 132.9

131 93.9 65.4 121.4

166 124.5 86.9 161.5



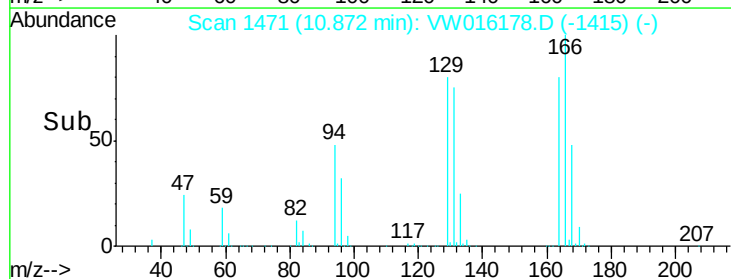
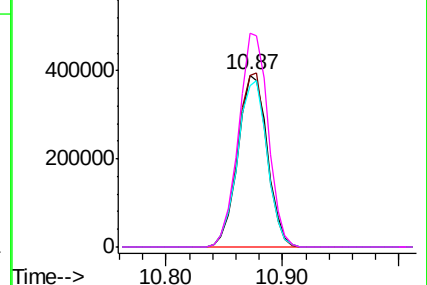
Abundance

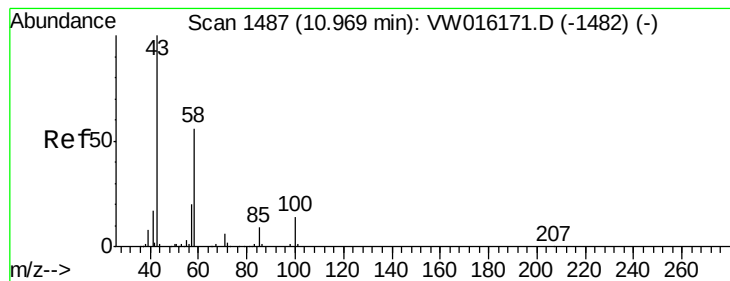
Ion 164.00 (163.70 to 164.70): V

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





#49

2-Hexanone

Concen: 14.666 ug/L

RT: 10.94 min Scan# 1483

Delta R.T. -0.02 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

GAYA1

Tot Ion: 43 Resp: 20550

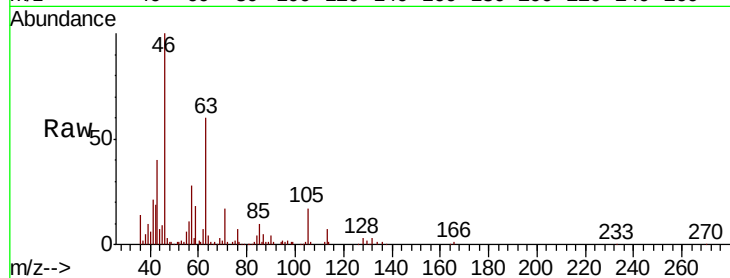
Ion Ratio Lower Upper

43 100

58 7.8 44.2 66.2#

57 64.8 15.8 23.6#

100 0.0 10.8 16.2#

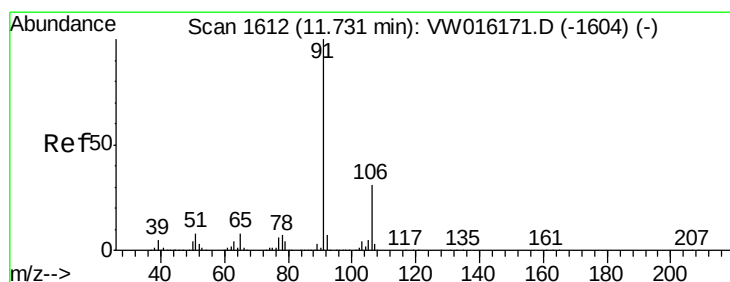
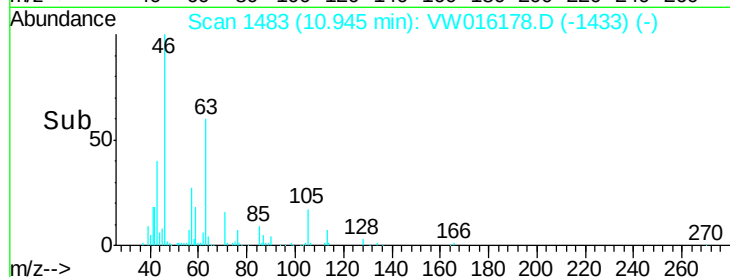
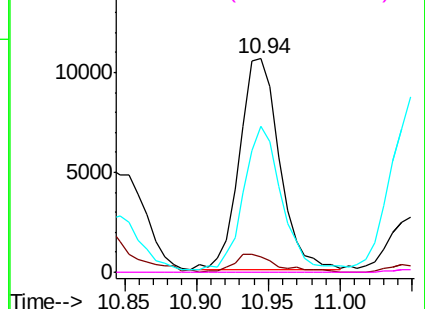


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#53

Ethylbenzene

Concen: 182.588 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.01 min

Lab File: VW016178.D

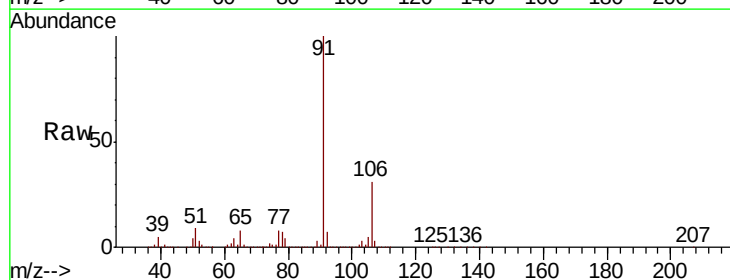
Acq: 13 Aug 2020 13:51

Tgt Ion: 91 Resp: 3074363

Ion Ratio Lower Upper

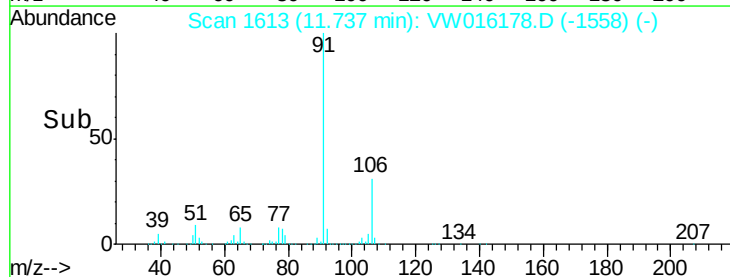
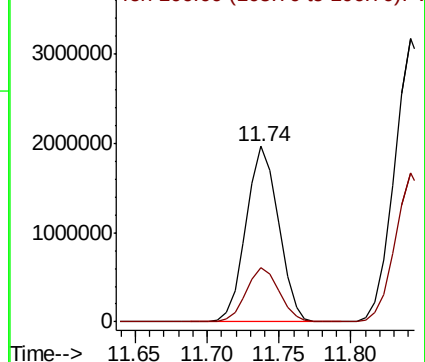
91 100

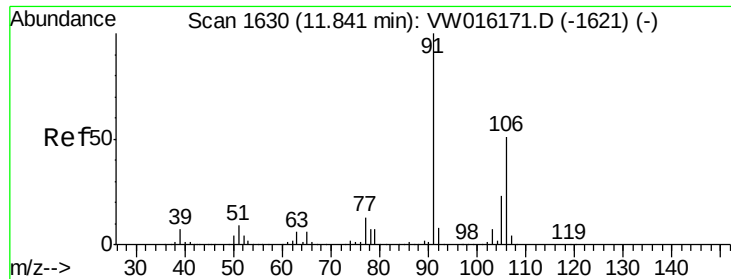
106 30.6 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): VW





#54

m,p-Xylene

Concen: 458.502 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

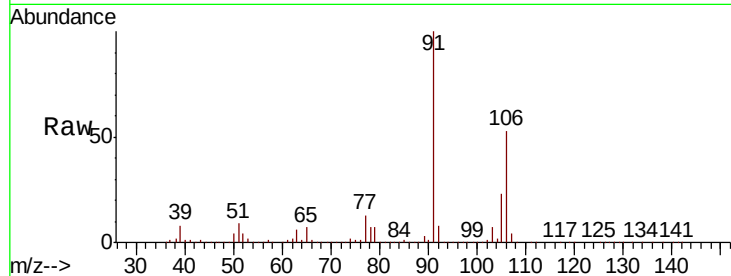
GAYA1

Tot Ion:106 Resp: 2904069

Ion Ratio Lower Upper

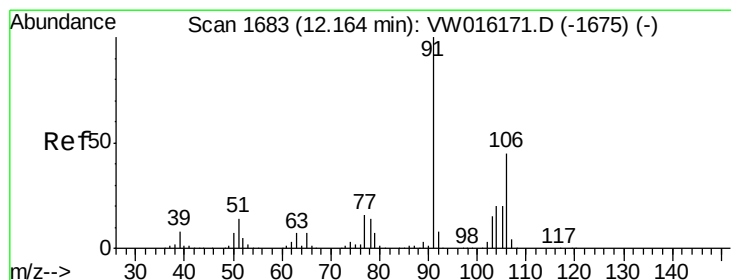
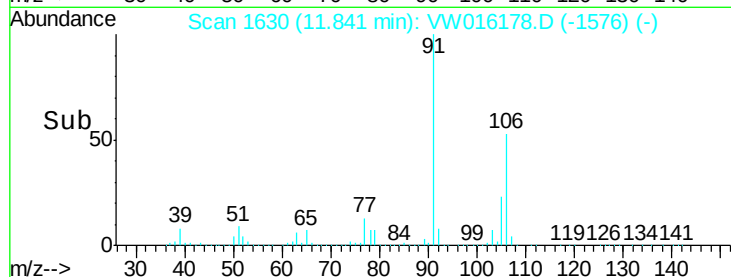
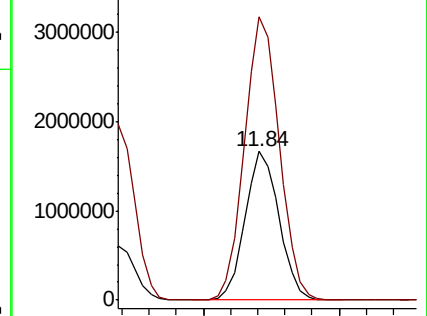
106 100

91 190.4 136.4 253.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 112.927 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW016178.D

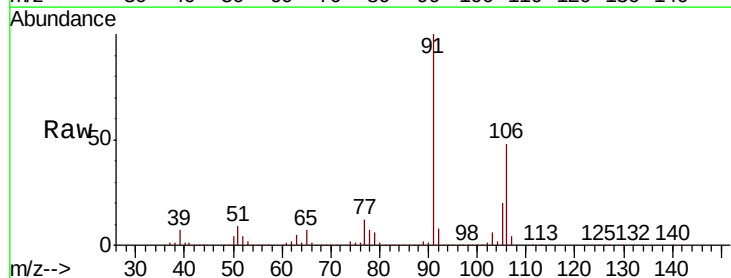
Acq: 13 Aug 2020 13:51

Tgt Ion:106 Resp: 673723

Ion Ratio Lower Upper

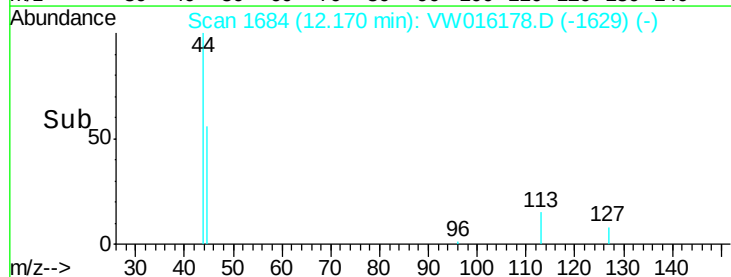
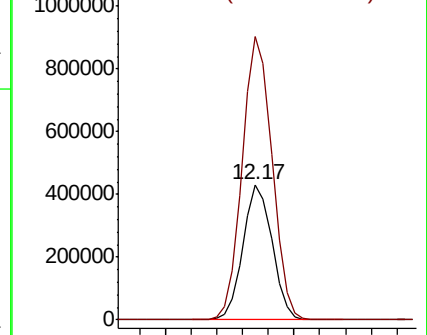
106 100

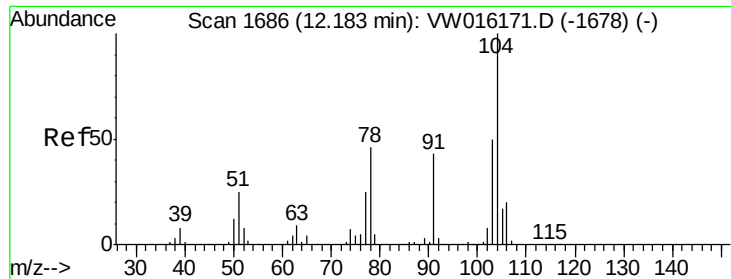
91 209.6 151.3 281.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 3.216 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

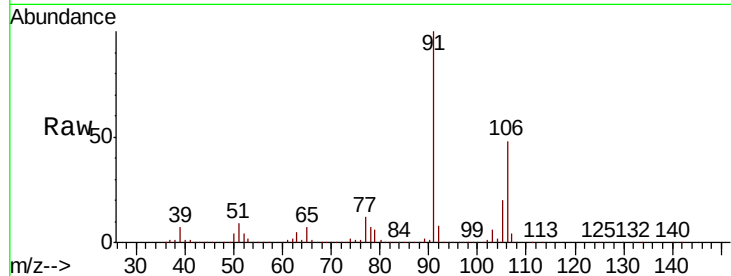
GAYA1

Tot Ion:104 Resp: 33222

Ion Ratio Lower Upper

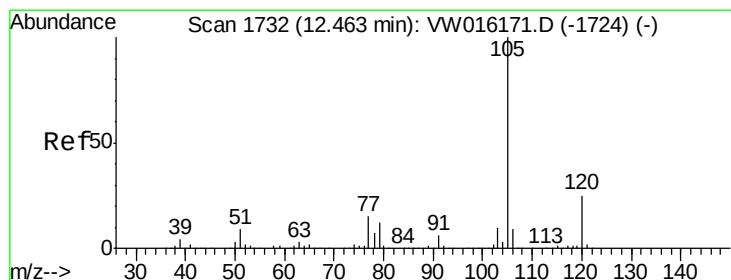
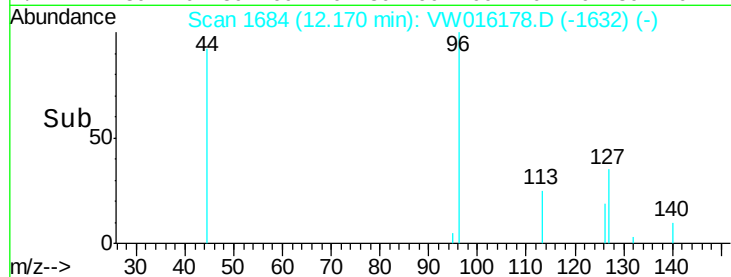
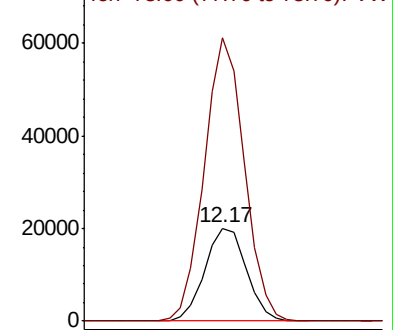
104 100

78 304.3 32.0 59.4#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV



#57

Isopropylbenzene

Concen: 2.028 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

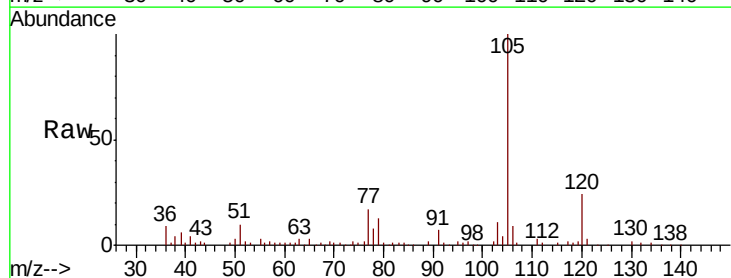
Tgt Ion:105 Resp: 32626

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

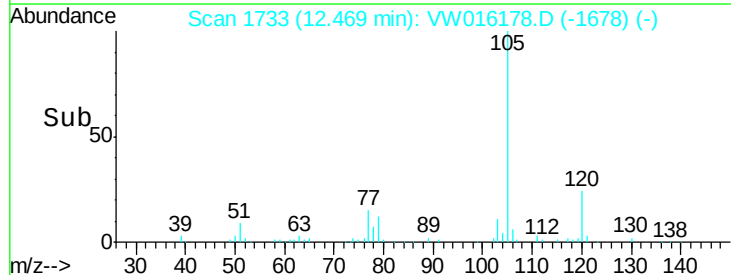
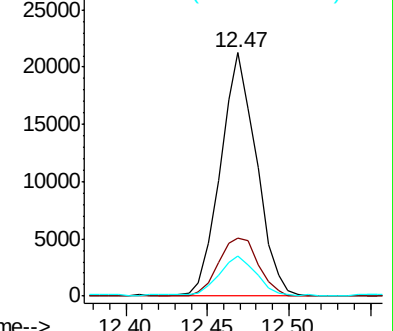
77 17.1 12.6 18.8

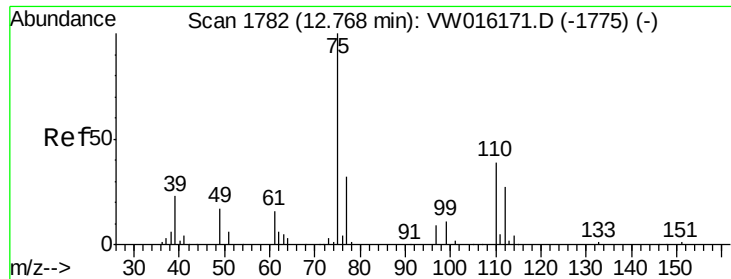


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV





#59

1,2,3-Trichloropropane

Concen: 0.905 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW016178.D

Acq: 13 Aug 2020 13:51

Instrument :

MSVOA_W

ClientSampleId :

GAYA1

Tot Ion: 75 Resp: 2175

Ion Ratio Lower Upper

75 100

77 47.2 25.9 38.9#

