

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092320\
 Data File : VW016612.D
 Acq On : 22 Sep 2020 15:54
 Operator : SY/VA
 Sample : L4109-03
 Misc : 6.28G/10ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W7

Quant Time: Sep 23 07:29:40 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	635402	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	572200	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	285172	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	168660	27.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	109.68%
7) Chloroethane-d5	2.90	69	146790	29.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	116.92%
10) 1,1-Dichloroethene-d2	4.03	63	303102	22.04	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.16%
20) 2-Butanone-d5	7.09	46	76476	45.61	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.22%
24) Chloroform-d	7.75	84	120	0.01	ug/L	0.10
Spiked Amount	25.000	Range	40 - 150	Recovery	=	0.04%#
26) 1,2-Dichloroethane-d4	8.31	65	194789	28.55	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	114.20%
29) Benzene-d6	8.28	84	738202	28.77	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	115.08%
33) 1,2-Dichloropropane-d6	9.28	67	204393	29.39	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	117.56%
37) Toluene-d8	10.33	98	710189	28.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.52%
38) trans-1,3-Dichloropropene-	10.58	79	89998	25.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.68%
39) 2-Hexanone-d5	10.93	63	62730	49.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.18%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	151395	25.59	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.36%
61) 1,2-Dichlorobenzene-d4	13.86	152	258898	28.41	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	113.64%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.37	62	3368	0.397	ug/L #	1
12) 1,1-Dichloroethene	4.06	96	80773	10.036	ug/L #	55
13) Acetone	4.15	43	8866	6.750	ug/L	95
14) Carbon disulfide	4.40	76	6161	0.254	ug/L	97
16) Methylene chloride	4.93	84	50843	5.188	ug/L	97
18) trans-1,2-Dichloroethene	5.45	96	3372	0.405	ug/L	96
19) 1,1-Dichloroethane	6.23	63	63958	4.852	ug/L	99
21) 2-Butanone	7.18	43	3352	1.500	ug/L #	1
22) cis-1,2-Dichloroethene	7.18	96	783359	90.583	ug/L	98
30) Cyclohexane	7.96	56	52855	4.227	ug/L	99
31) 1,1,1-Trichloroethane	7.88	97	1098405	82.193	ug/L	100
42) cis-1,3-Dichloropropene	10.04	75	7329	0.602	ug/L #	73
44) Toluene	10.39	91	8836105	256.220	ug/L	92
45) trans-1,3-Dichloropropene	10.58	75	4341	0.410	ug/L	88
52) Chlorobenzene	11.66	112	12523	0.541	ug/L	96
53) Ethylbenzene	11.73	91	196005	5.006	ug/L	97
54) m,p-Xylene	11.84	106	287602	18.759	ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092320\
Data File : VW016612.D
Acq On : 22 Sep 2020 15:54
Operator : SY/VA
Sample : L4109-03
Misc : 6.28G/10ML/MSVOA W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BG3W7

Quant Time: Sep 23 07:29:40 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

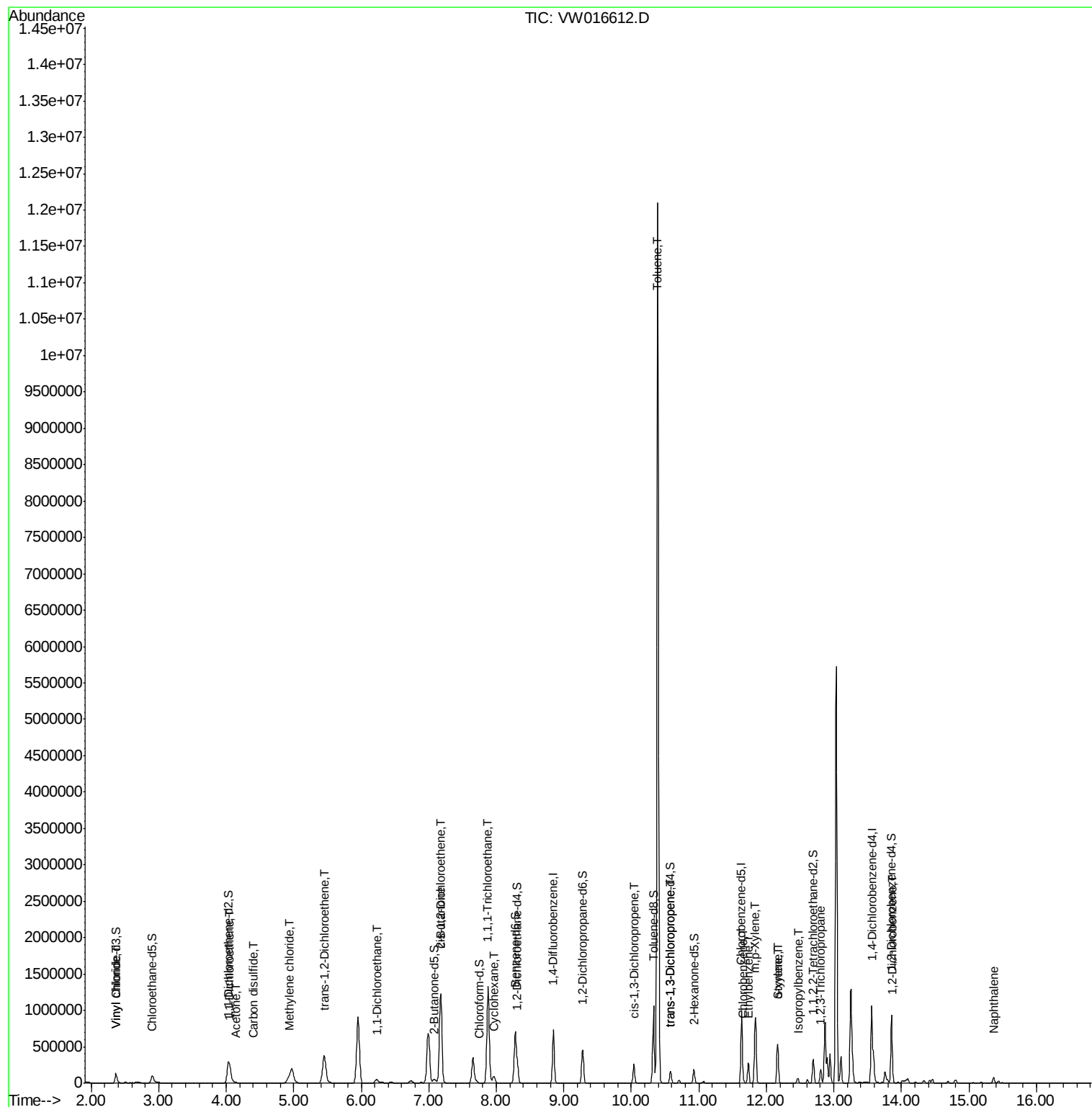
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.17	106	153999	10.485	ug/L	94
56) Styrene	12.16	104	7887	0.323	ug/L #	1
57) Isopropylbenzene	12.47	105	44032	1.097	ug/L	99
59) 1,2,3-Trichloropropane	12.81	75	1000	0.200	ug/L #	1
65) 1,2-Dichlorobenzene	13.87	146	7713	0.465	ug/L #	84
69) Naphthalene	15.37	128	65794	3.382	ug/L	100

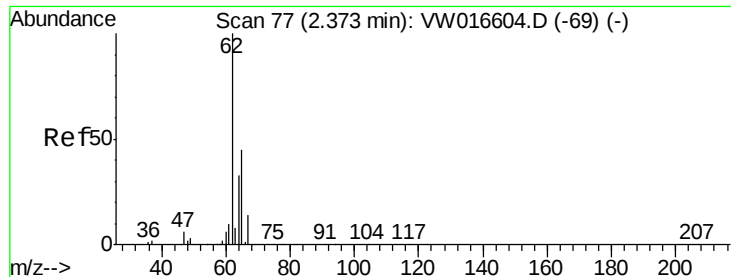
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092320\
Data File : VW016612.D
Acq On : 22 Sep 2020 15:54
Operator : SY/VA
Sample : L4109-03
Misc : 6.28G/10ML/MSVOA W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BG3W7

Quant Time: Sep 23 07:29:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
Quant Title : VOC Analysis
QLast Update : Wed Sep 23 07:21:48 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.397 ug/L

RT: 2.37 min Scan# 77

Delta R.T. -0.00 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampled :

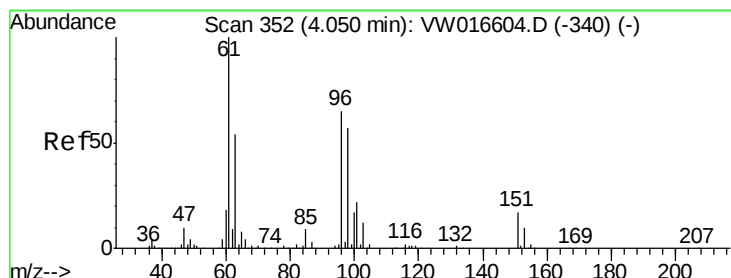
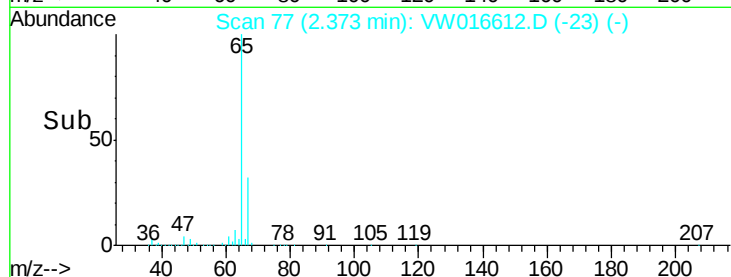
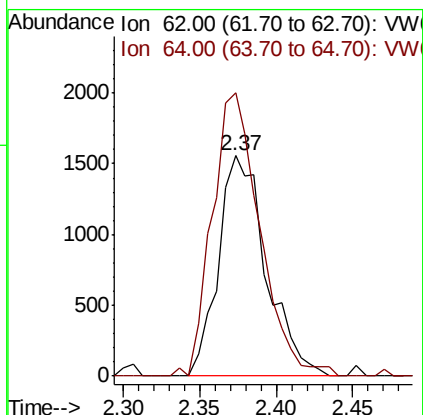
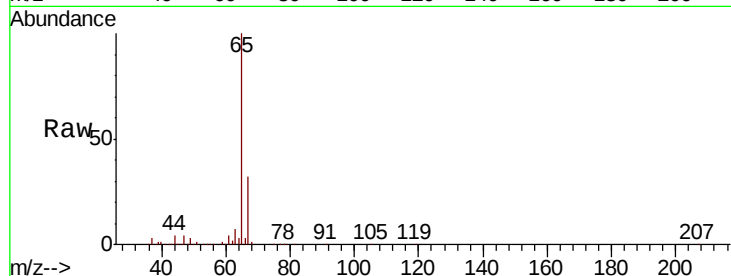
BG3W7

Tot Ion: 62 Resp: 3368

Ion Ratio Lower Upper

62 100

64 128.4 23.4 43.4#



#12

1,1-Dichloroethene

Concen: 10.036 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

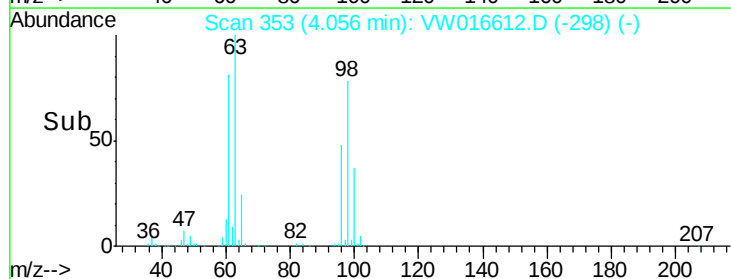
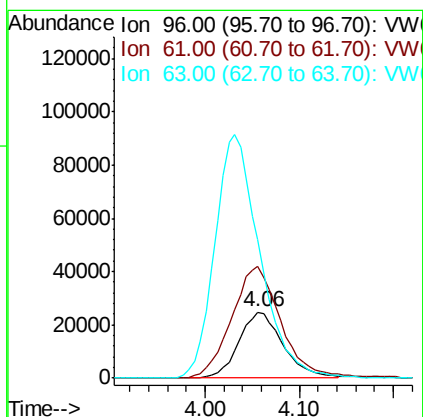
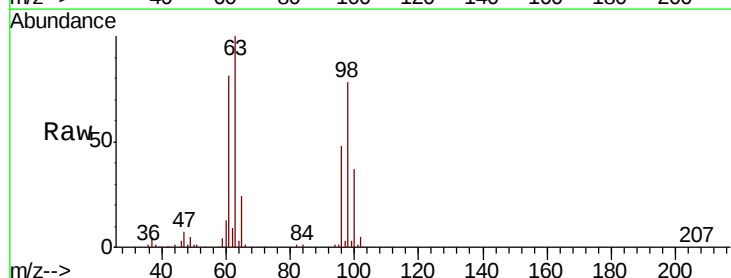
Tgt Ion: 96 Resp: 80773

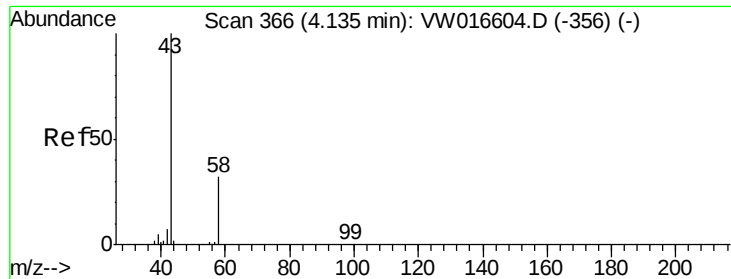
Ion Ratio Lower Upper

96 100

61 169.1 111.4 206.8

63 209.1 73.0 135.6#





#13

Acetone

Concen: 6.750 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampleId :

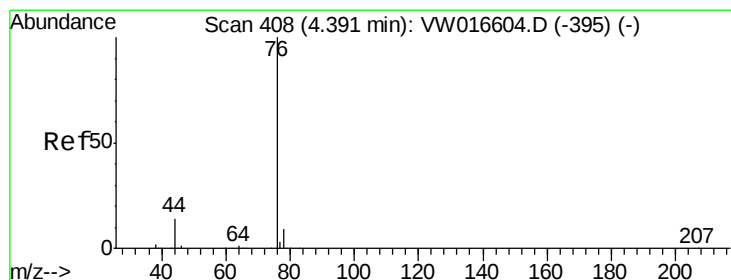
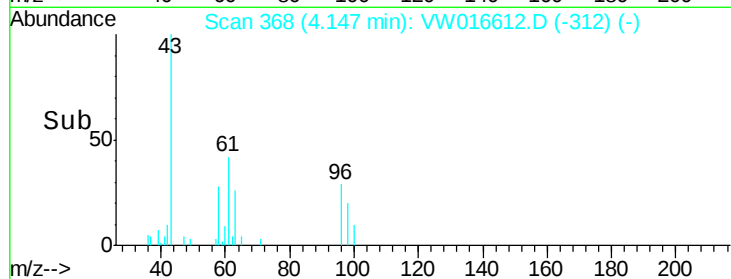
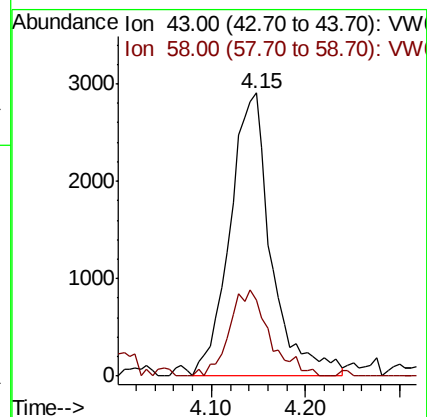
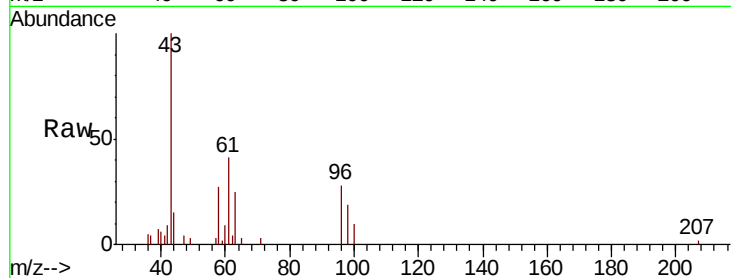
BG3W7

Tot Ion: 43 Resp: 8866

Ion Ratio Lower Upper

43 100

58 27.6 0.0 60.2



#14

Carbon disulfide

Concen: 0.254 ug/L

RT: 4.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VW016612.D

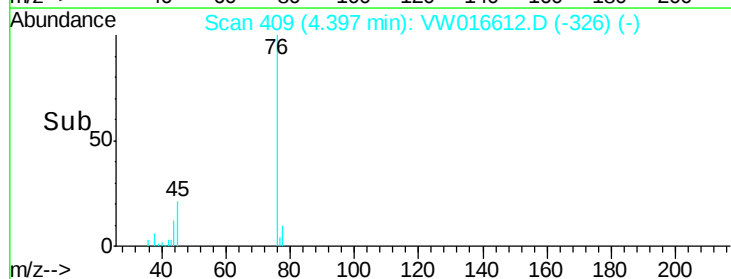
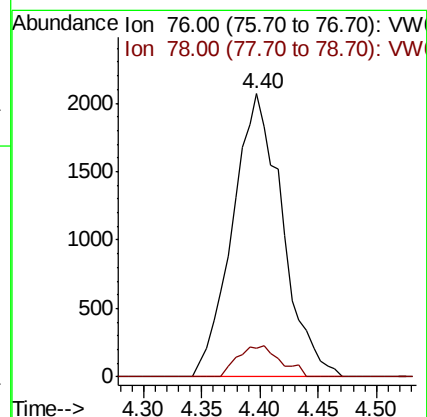
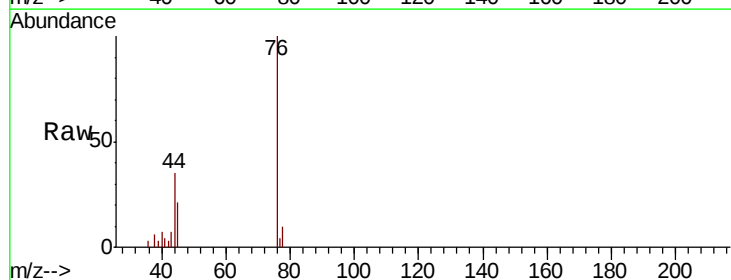
Acq: 22 Sep 2020 15:54

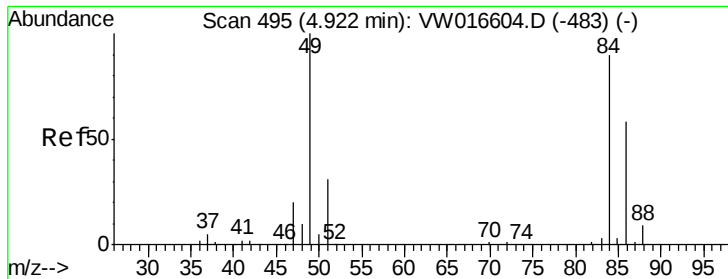
Tgt Ion: 76 Resp: 6161

Ion Ratio Lower Upper

76 100

78 10.0 7.3 10.9

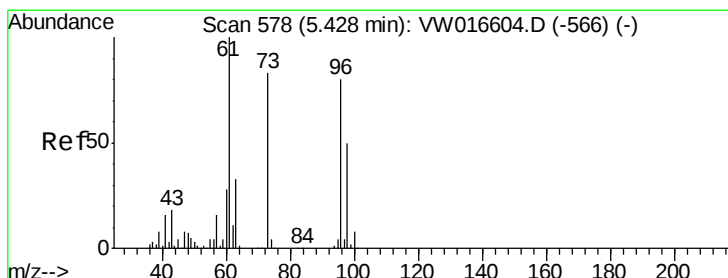
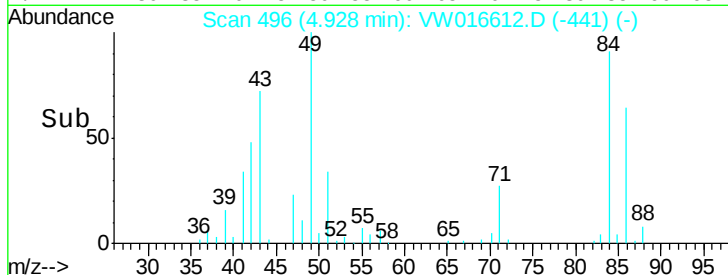
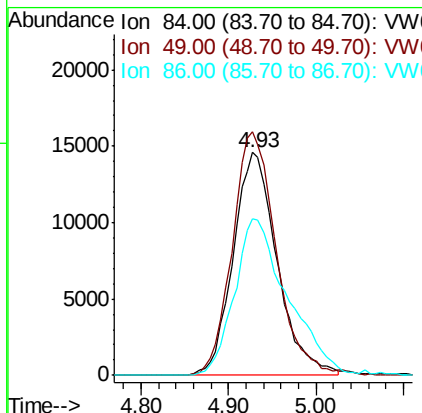
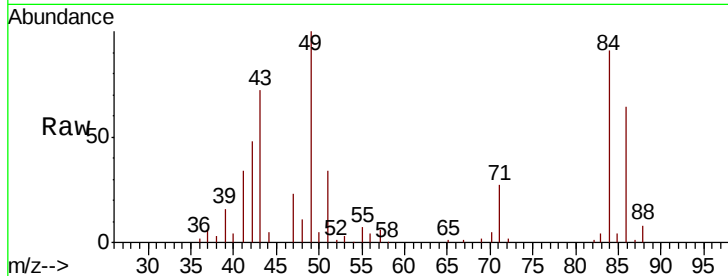




#16
Methylene chloride
Concen: 5.188 ug/L
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW016612.D
Acq: 22 Sep 2020 15:54

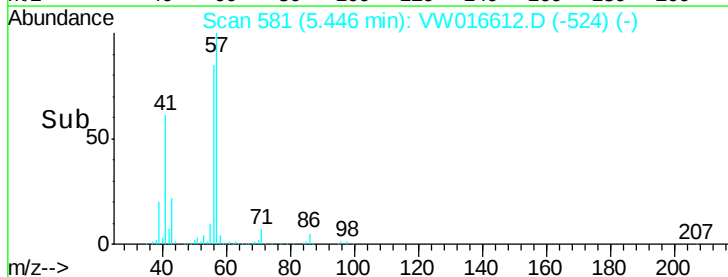
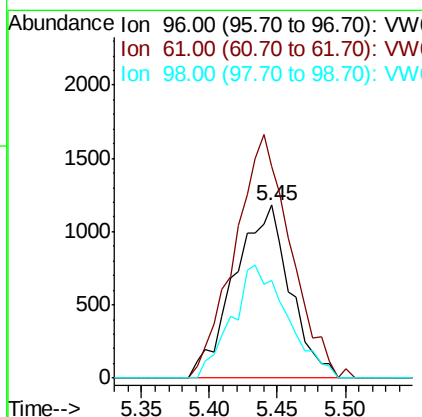
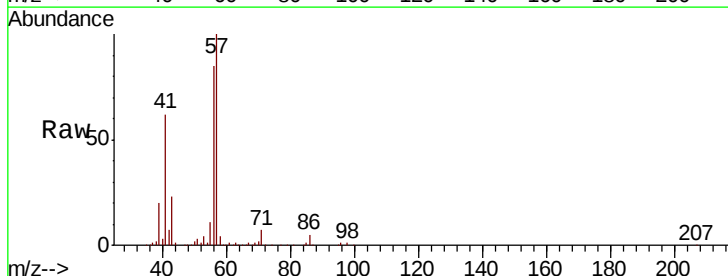
Instrument :
MSVOA_W
ClientSampleId :
BG3W7

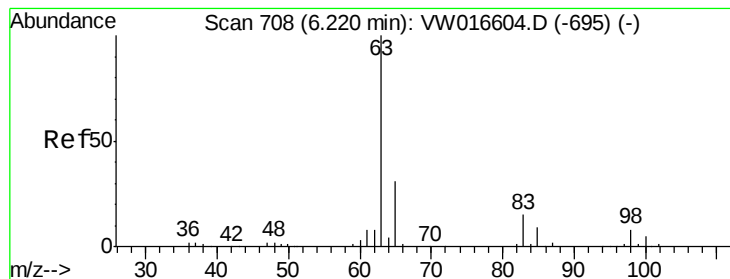
Tot Ion: 84 Resp: 50843
Ion Ratio Lower Upper
84 100
49 109.3 76.0 141.2
86 70.3 45.6 84.6



#18
trans-1,2-Dichloroethene
Concen: 0.405 ug/L
RT: 5.45 min Scan# 581
Delta R.T. 0.02 min
Lab File: VW016612.D
Acq: 22 Sep 2020 15:54

Tgt Ion: 96 Resp: 3372
Ion Ratio Lower Upper
96 100
61 122.5 88.4 164.2
98 56.8 43.0 80.0





#19

1,1-Dichloroethane

Concen: 4.852 ug/L

RT: 6.23 min Scan# 709

Delta R.T. 0.01 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampled :

BG3W7

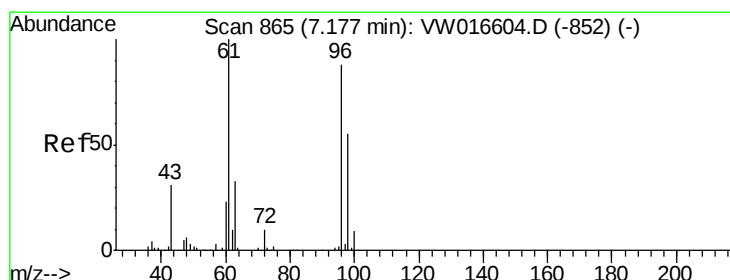
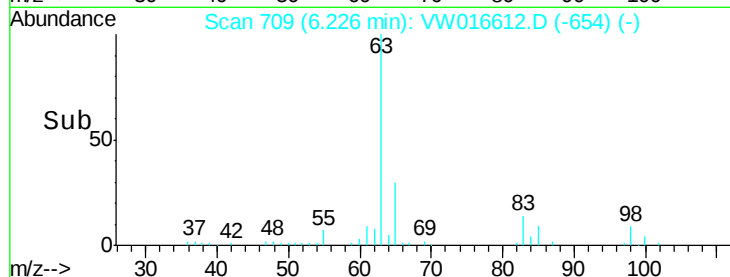
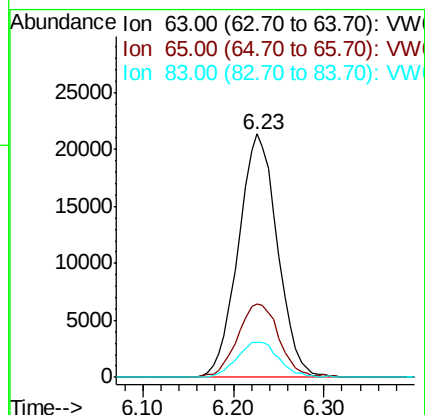
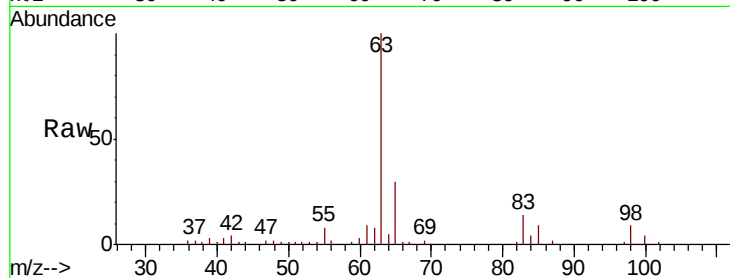
Tot Ion: 63 Resp: 63958

Ion Ratio Lower Upper

63 100

65 30.1 21.6 40.0

83 14.3 10.4 19.2



#21

2-Butanone

Concen: 1.500 ug/L

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW016612.D

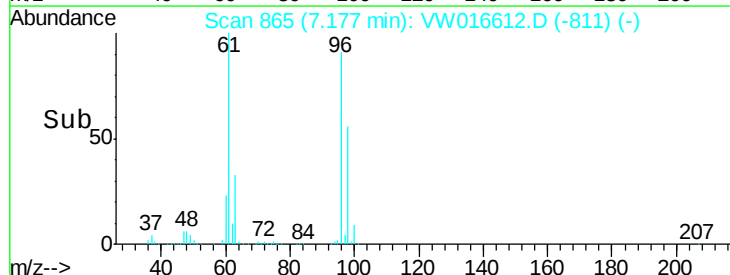
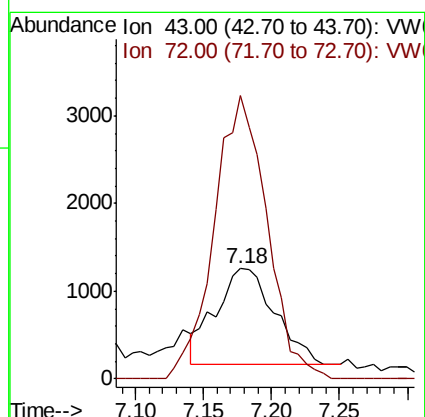
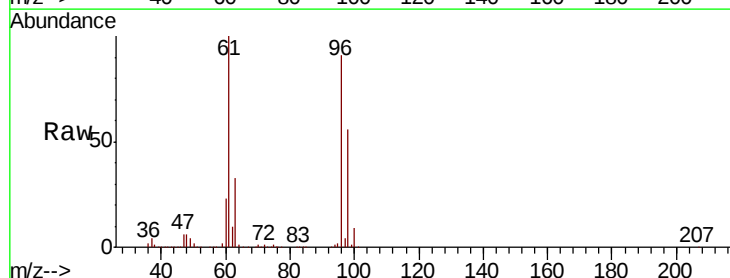
Acq: 22 Sep 2020 15:54

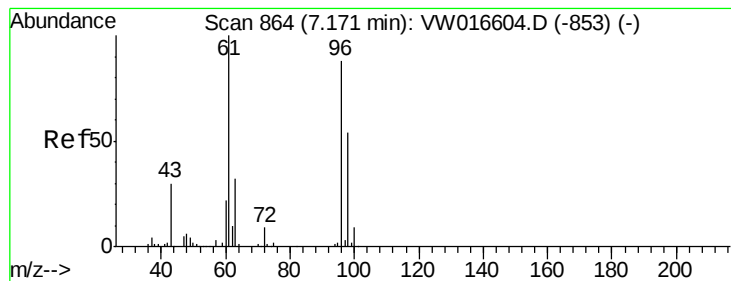
Tgt Ion: 43 Resp: 3352

Ion Ratio Lower Upper

43 100

72 261.1 14.6 43.8#



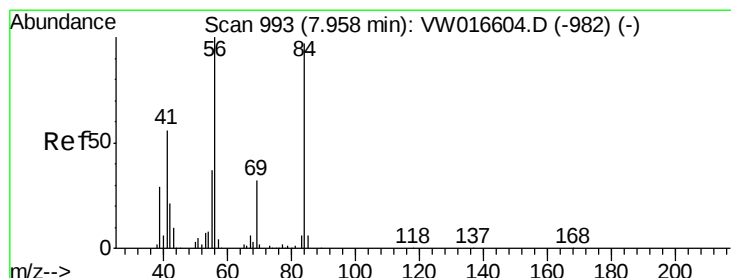
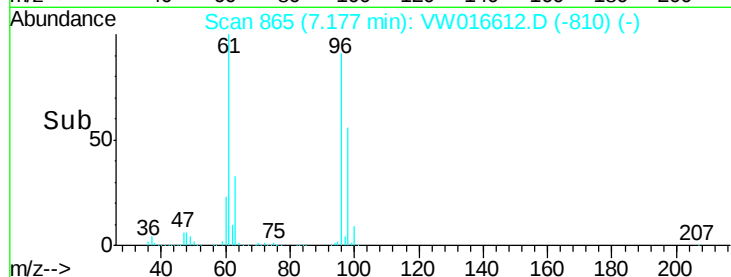
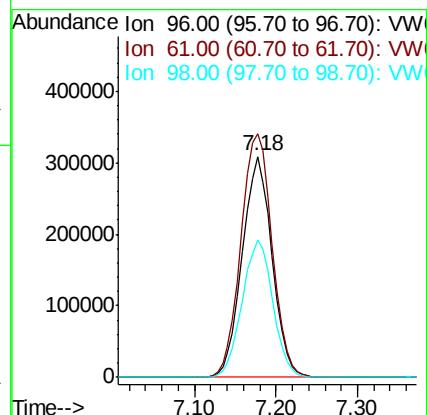
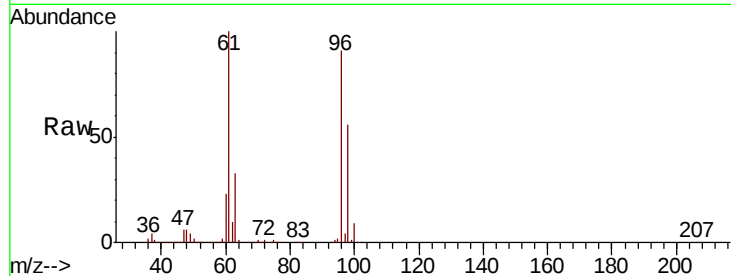


#22

cis-1,2-Dichloroethene
 Concen: 90.583 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW016612.D
 Acq: 22 Sep 2020 15:54

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W7

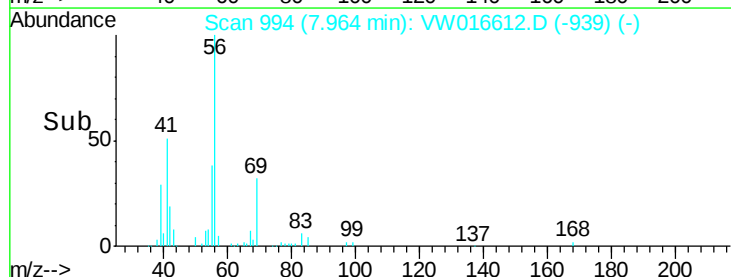
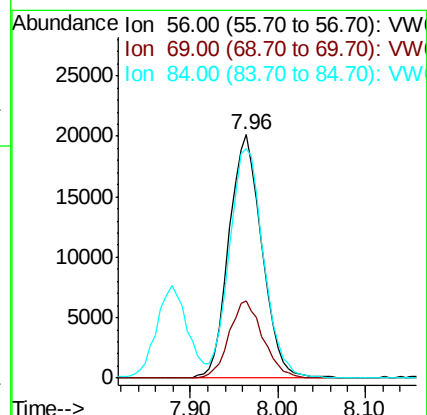
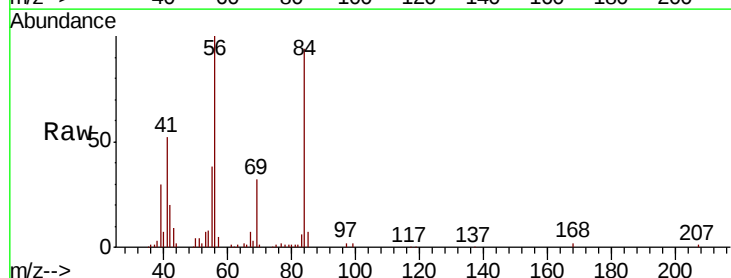
Tot Ion	Ratio	Lower	Upper
96	100		
61	110.3	78.4	145.6
98	62.2	44.8	83.2

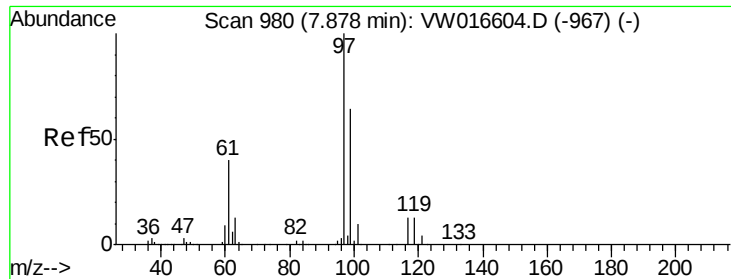


#30

Cyclohexane
 Concen: 4.227 ug/L
 RT: 7.96 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VW016612.D
 Acq: 22 Sep 2020 15:54

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.4	26.5	39.7
84	97.5	79.0	118.6





#31

1,1,1-Trichloroethane

Concen: 82.193 ug/L

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampleId :

BG3W7

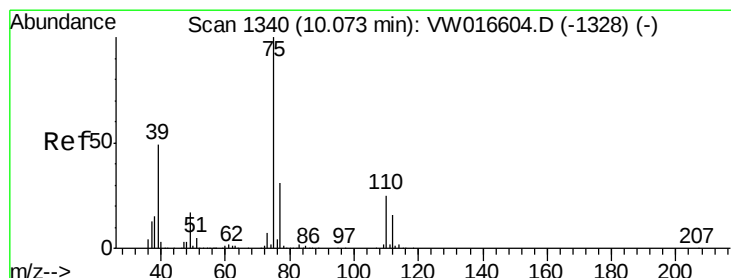
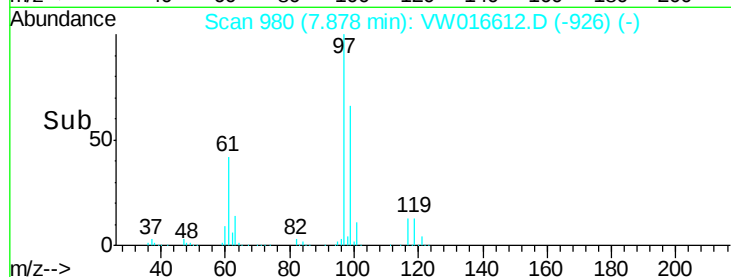
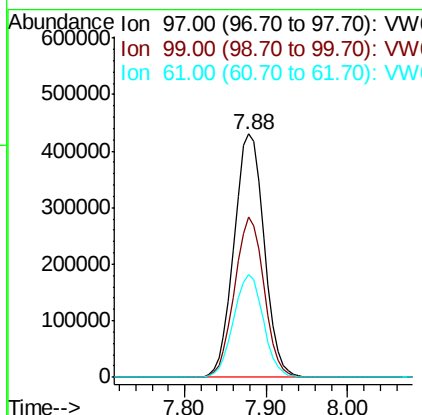
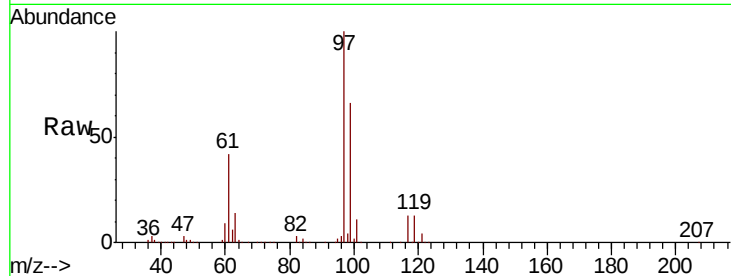
Tot Ion: 97 Resp: 1098405

Ion Ratio Lower Upper

97 100

99 64.7 51.8 77.6

61 41.6 33.6 50.4



#42

cis-1,3-Dichloropropene

Concen: 0.602 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW016612.D

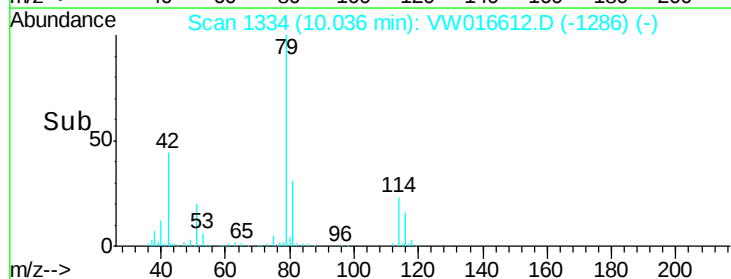
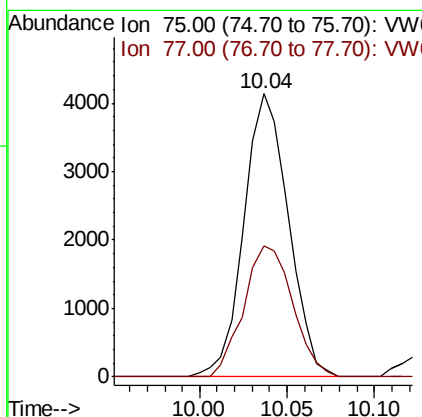
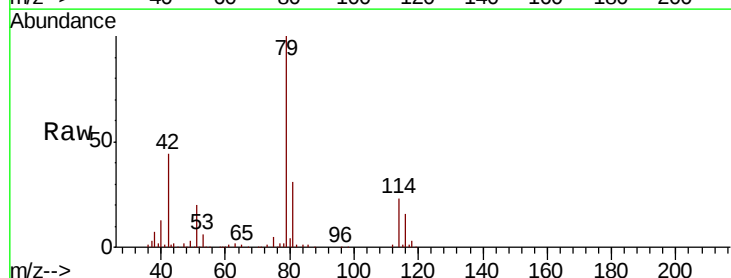
Acq: 22 Sep 2020 15:54

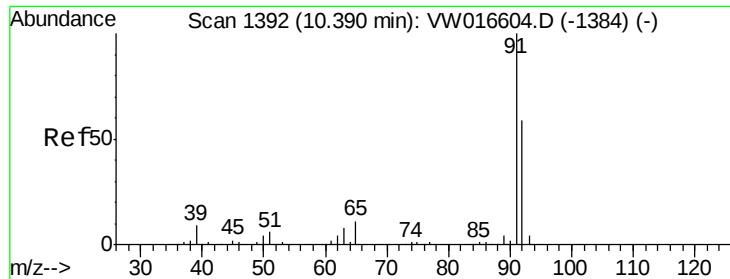
Tgt Ion: 75 Resp: 7329

Ion Ratio Lower Upper

75 100

77 46.5 22.2 41.2#





#44

Toluene

Concen: 256.220 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampled :

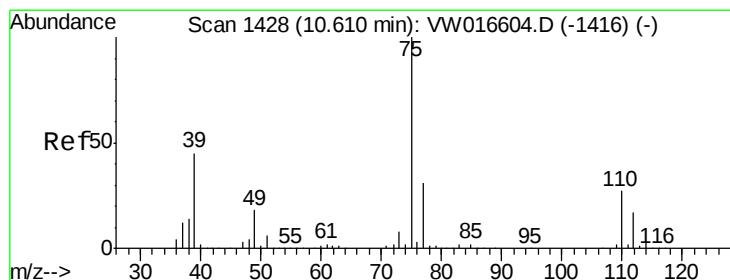
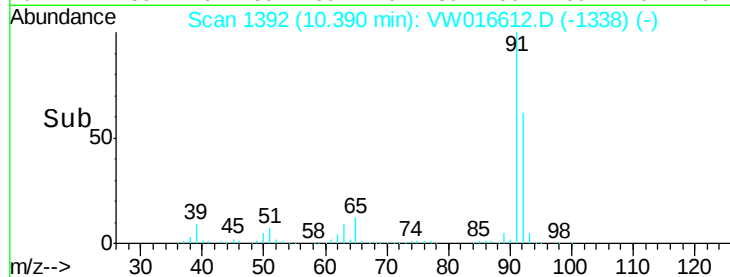
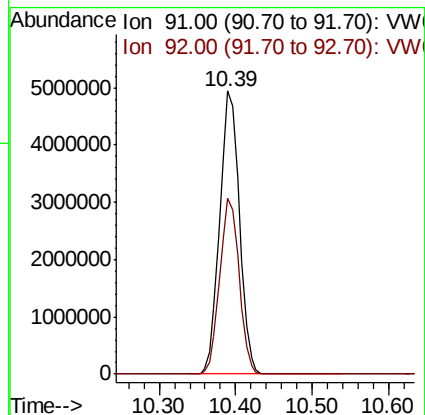
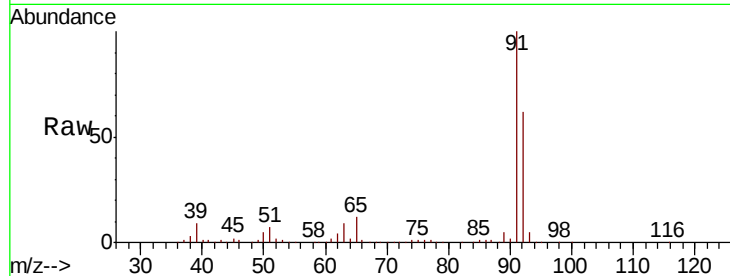
BG3W7

Tot Ion: 91 Resp: 8836105

Ion Ratio Lower Upper

91 100

92 62.2 39.6 73.6



#45

trans-1,3-Dichloropropene

Concen: 0.410 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW016612.D

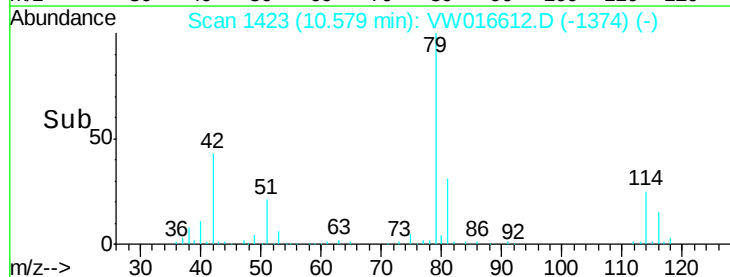
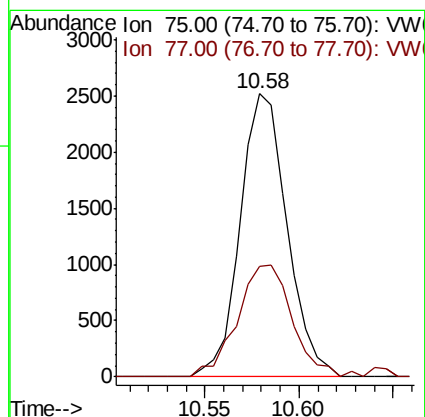
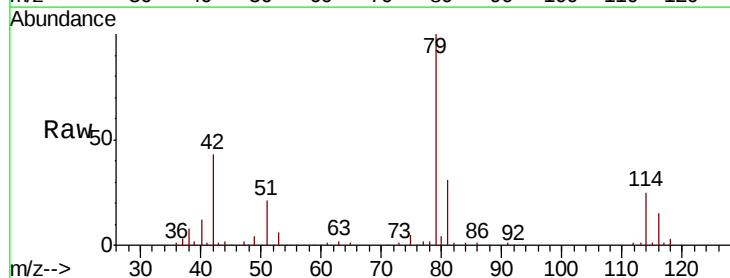
Acq: 22 Sep 2020 15:54

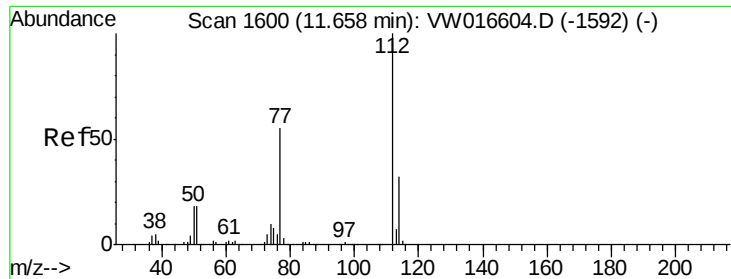
Tgt Ion: 75 Resp: 4341

Ion Ratio Lower Upper

75 100

77 39.0 22.5 41.9





#52

Chlorobenzene

Concen: 0.541 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampleId :

BG3W7

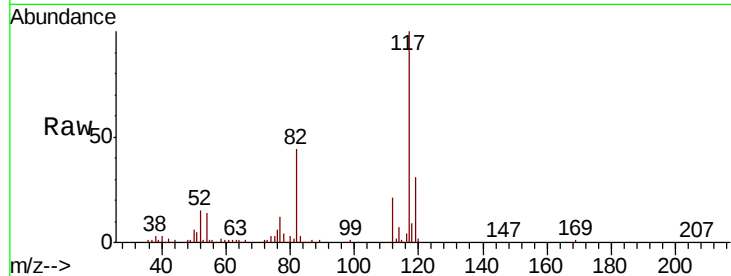
Tot Ion:112 Resp: 12523

Ion Ratio Lower Upper

112 100

77 56.5 43.1 64.7

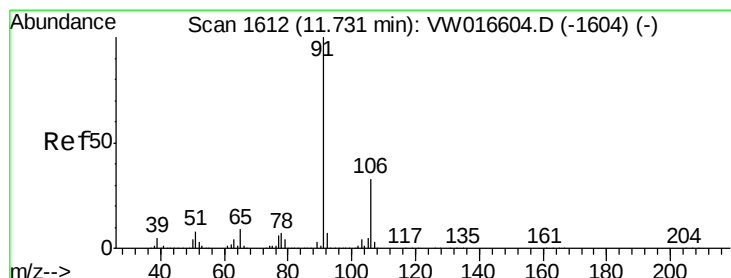
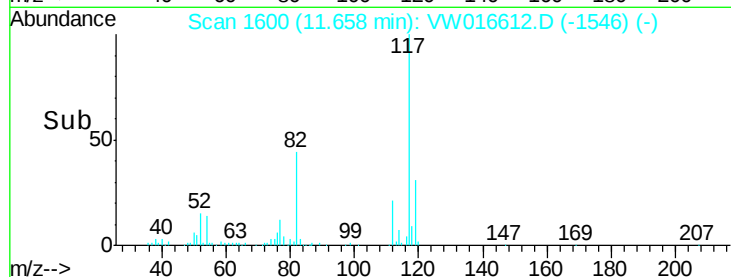
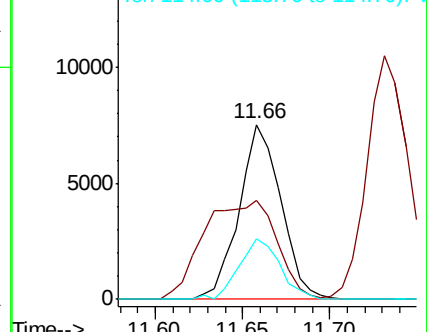
114 34.7 22.3 41.3



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 5.006 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW016612.D

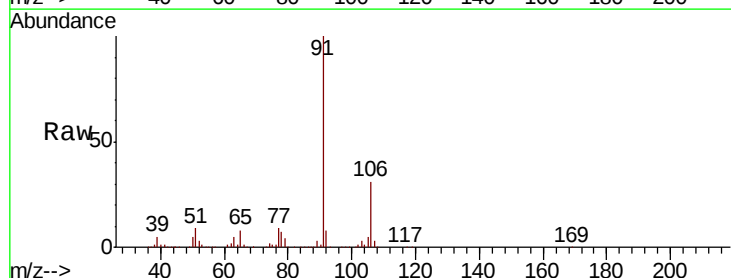
Acq: 22 Sep 2020 15:54

Tgt Ion: 91 Resp: 196005

Ion Ratio Lower Upper

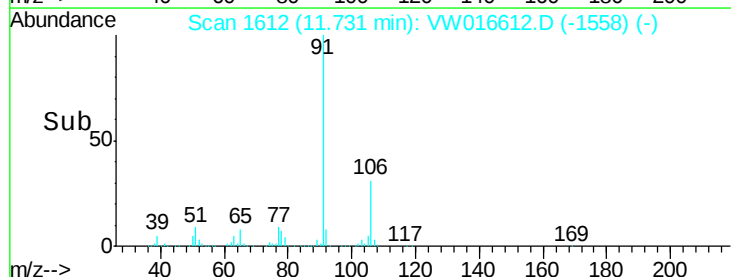
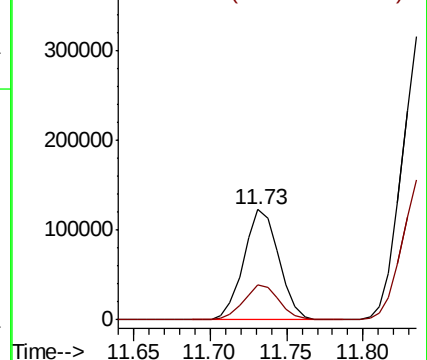
91 100

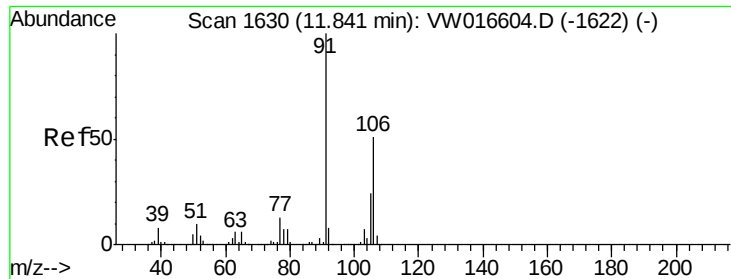
106 31.4 20.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 18.759 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampled :

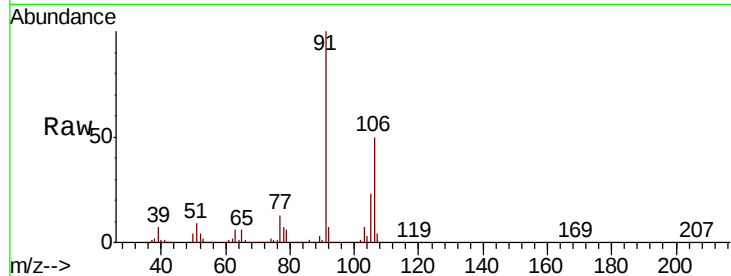
BG3W7

Tot Ion:106 Resp: 287602

Ion Ratio Lower Upper

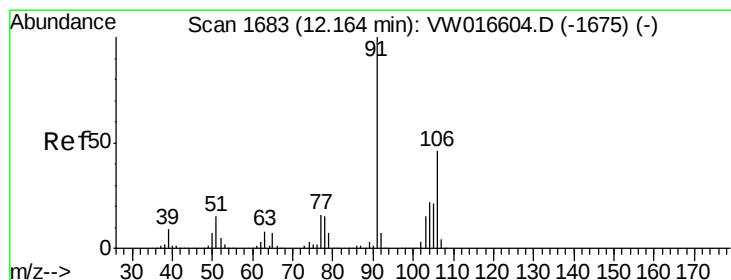
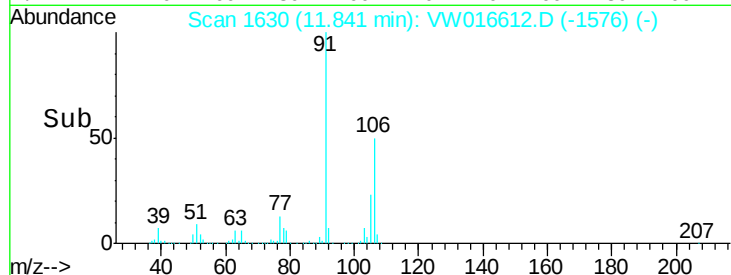
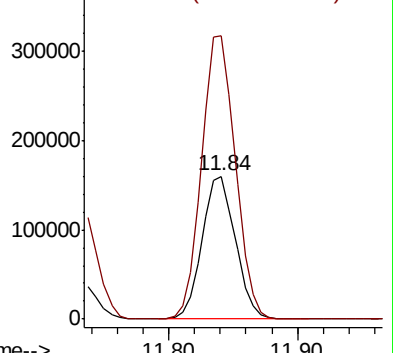
106 100

91 198.4 139.7 259.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 10.485 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW016612.D

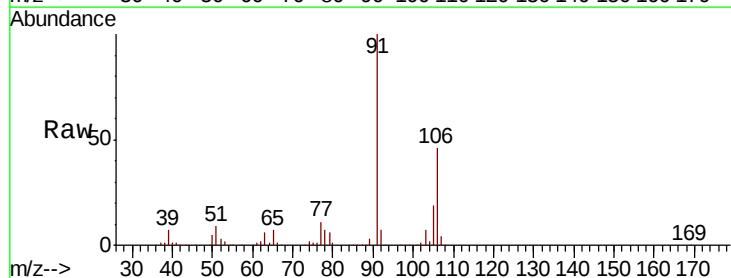
Acq: 22 Sep 2020 15:54

Tgt Ion:106 Resp: 153999

Ion Ratio Lower Upper

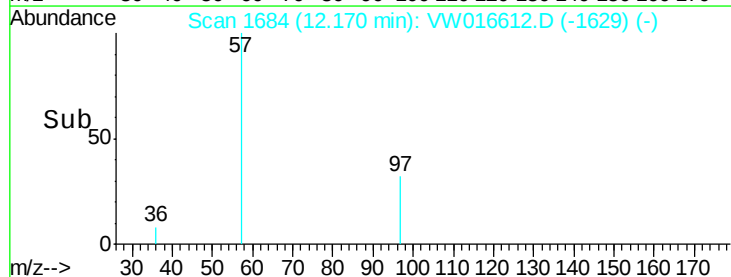
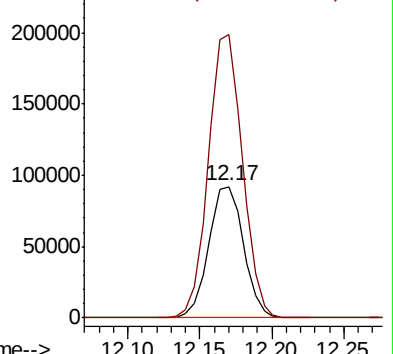
106 100

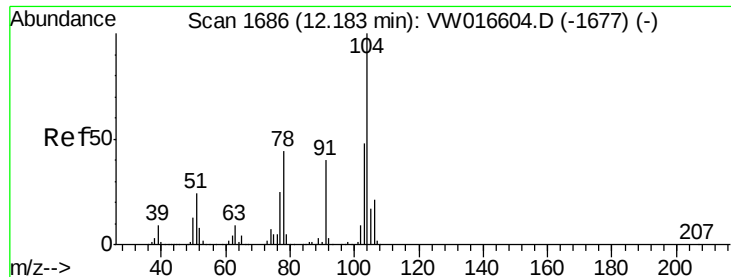
91 215.6 144.8 268.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 0.323 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.02 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampled :

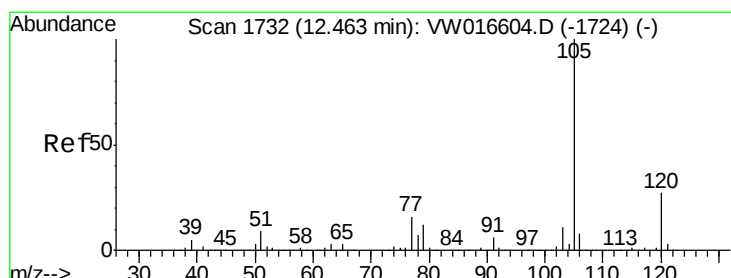
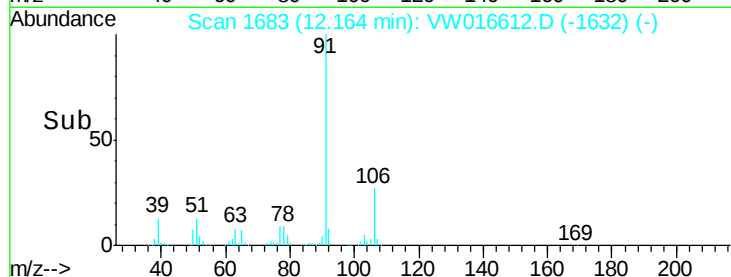
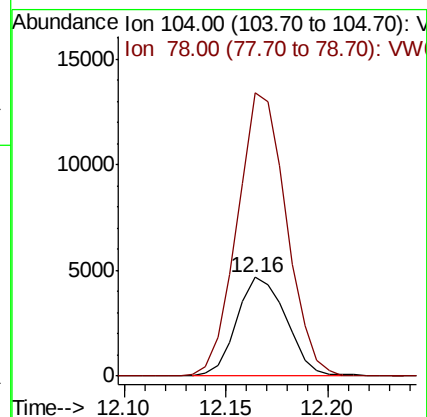
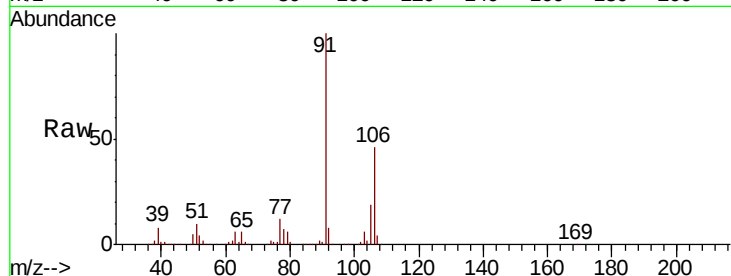
BG3W7

Tot Ion:104 Resp: 7887

Ion Ratio Lower Upper

104 100

78 287.2 31.4 58.2#



#57

Isopropylbenzene

Concen: 1.097 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

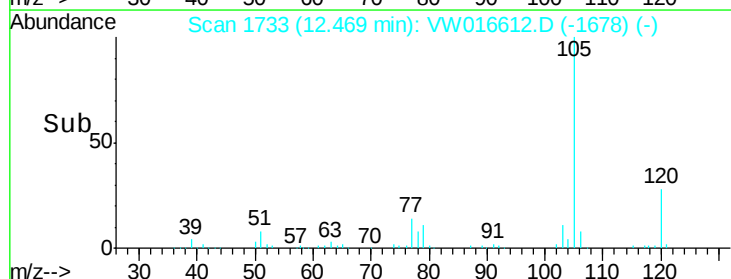
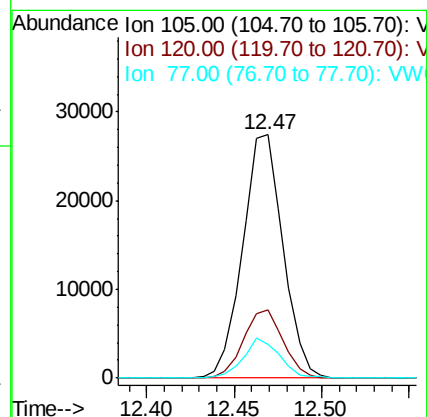
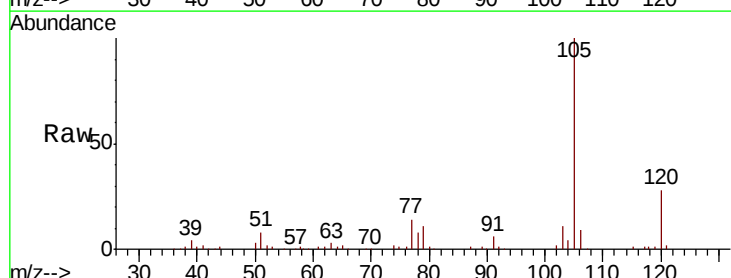
Tgt Ion:105 Resp: 44032

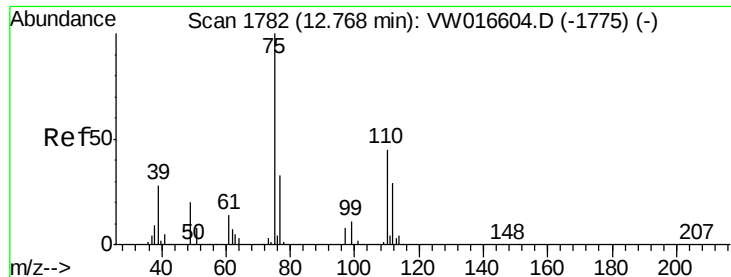
Ion Ratio Lower Upper

105 100

120 27.5 21.8 32.8

77 14.9 12.2 18.2





#59

1,2,3-Trichloropropane

Concen: 0.200 ug/L

RT: 12.81 min Scan# 1789

Delta R.T. 0.04 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampled :

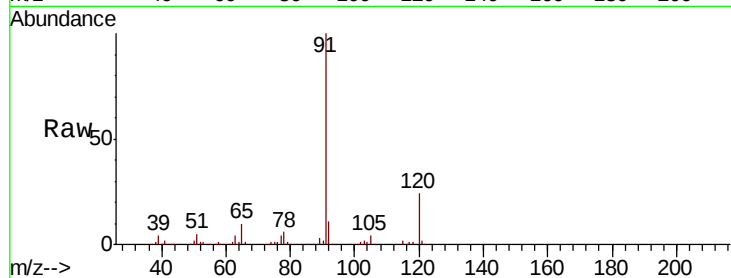
BG3W7

Tot Ion: 75 Resp: 1000

Ion Ratio Lower Upper

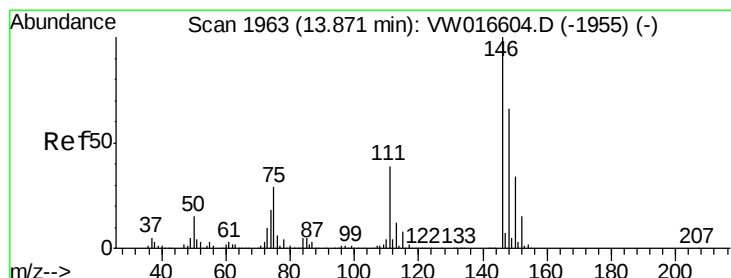
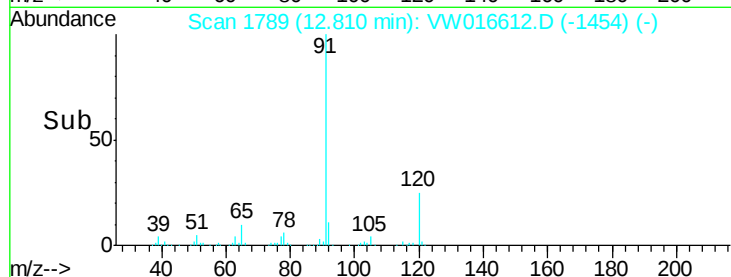
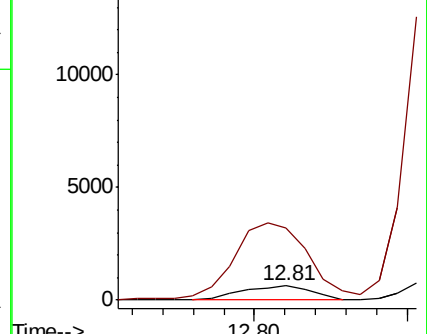
75 100

77 582.7 26.2 39.4#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#65

1,2-Dichlorobenzene

Concen: 0.465 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

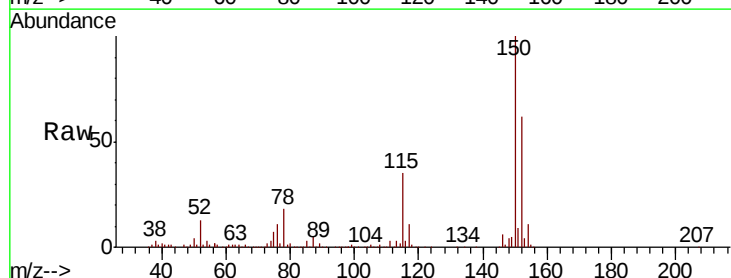
Tgt Ion: 146 Resp: 7713

Ion Ratio Lower Upper

146 100

111 50.7 31.4 47.0#

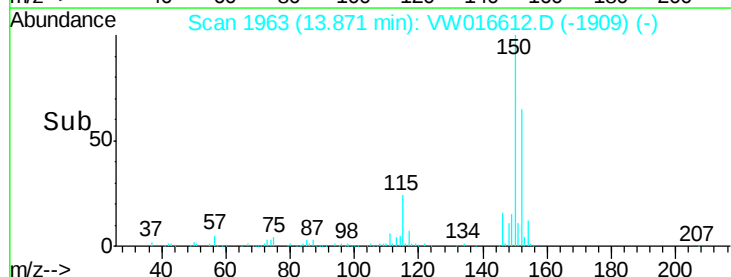
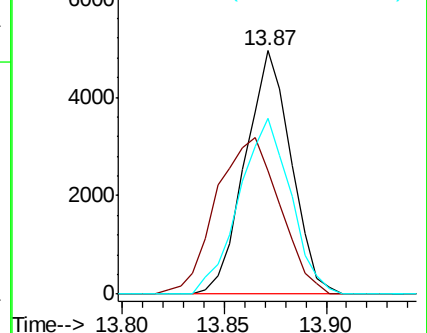
148 72.2 49.3 73.9

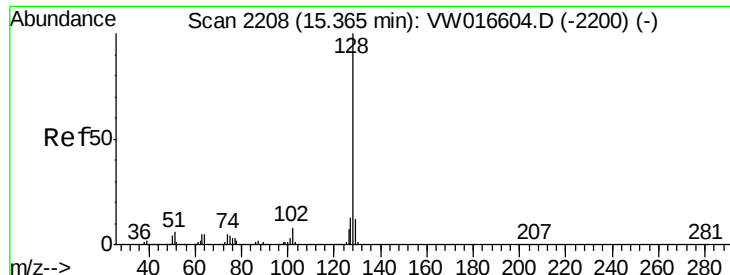


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 3.382 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW016612.D

Acq: 22 Sep 2020 15:54

Instrument :

MSVOA_W

ClientSampleId :

BG3W7

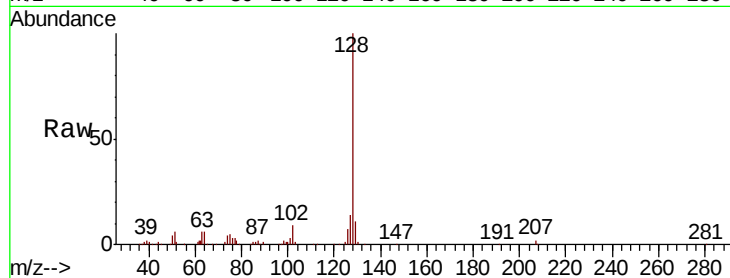
Tot Ion:128 Resp: 65794

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 13.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

