

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052020\
 Data File : VX016370.D
 Acq On : 20 May 2020 19:01
 Operator : JC/SP
 Sample : L2684-05 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW-3

Quant Time: May 21 03:55:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	246334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	406709	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	401277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	199494	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	142581	43.99	ug/l	0.00
Spiked Amount			Recovery	=	87.98%	
35) Dibromofluoromethane	5.47	113	117341	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	
50) Toluene-d8	8.70	98	498337	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.12	95	202824	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	

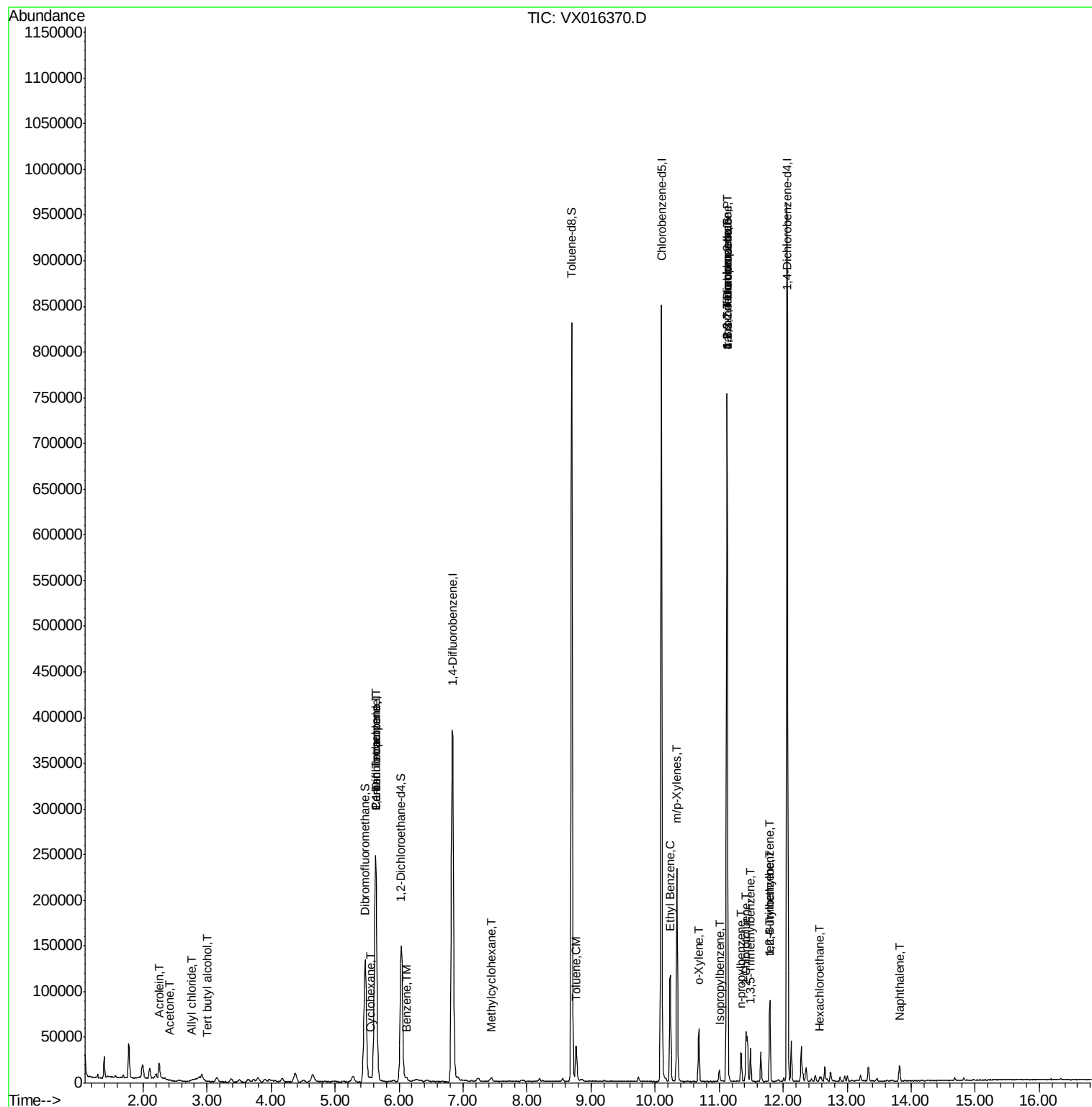
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	508	0.620	ug/l #	72
13) Acrolein	2.25	56	462	0.901	ug/l #	1
14) Allyl chloride	2.76	41	1107	0.236	ug/l #	27
16) Acetone	2.42	43	906	0.626	ug/l #	81
17) Carbon Disulfide	2.56	76	924	Below Cal	#	80
31) Cyclohexane	5.55	56	3290	0.731	ug/l	96
36) 1,1-Dichloropropene	5.64	75	17461	4.361	ug/l #	49
38) Carbon Tetrachloride	5.64	117	23058	5.666	ug/l #	14
39) Methylcyclohexane	7.44	83	1831	0.380	ug/l	92
40) Benzene	6.12	78	4856	0.415	ug/l	99
52) Toluene	8.77	92	13661	1.871	ug/l	95
67) Ethyl Benzene	10.24	91	70564	4.707	ug/l	96
68) m/p-Xylenes	10.34	106	54761	9.749	ug/l	97
69) o-Xylene	10.68	106	12642	2.341	ug/l	99
73) Isopropylbenzene	11.01	105	7188	0.495	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.12	83	122	2.094	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	97211	21.474	ug/l #	35
78) n-propylbenzene	11.34	91	19712	1.168	ug/l	99
79) 2-Chlorotoluene	11.42	91	5811	0.583	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.49	105	16294	1.330	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	97211	51.173	ug/l #	13
83) tert-Butylbenzene	11.79	119	4764	0.451	ug/l #	70
84) 1,2,4-Trimethylbenzene	11.79	105	39711	3.206	ug/l	99
90) Hexachloroethane	12.58	117	511	0.225	ug/l #	10
95) Naphthalene	13.82	128	10920	0.703	ug/l	99

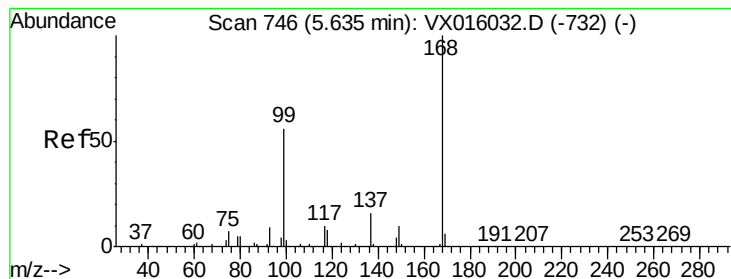
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 21 03:55:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampled :

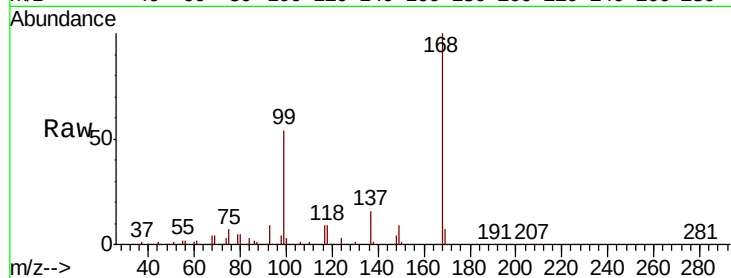
RW-3

Tot Ion:168 Resp: 246334

Ion Ratio Lower Upper

168 100

99 54.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

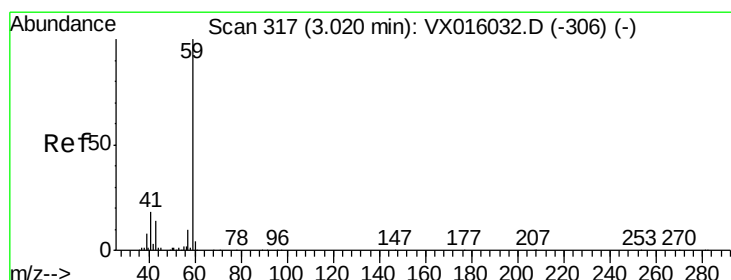
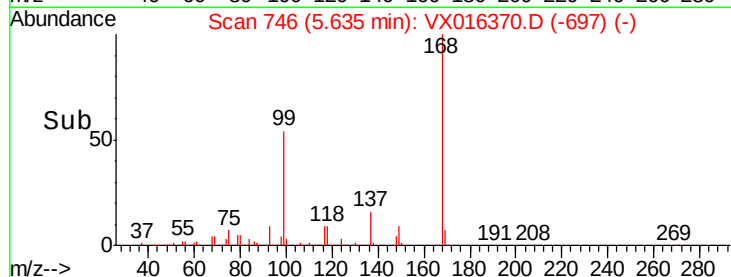
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.620 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016370.D

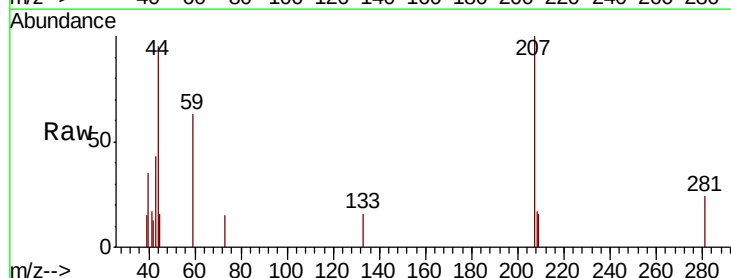
Acq: 20 May 2020 19:01

Tgt Ion: 59 Resp: 508

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

250

200

150

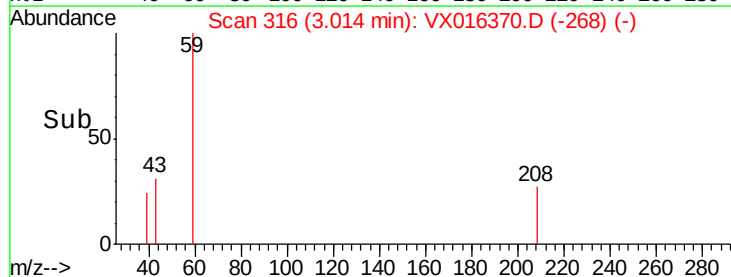
100

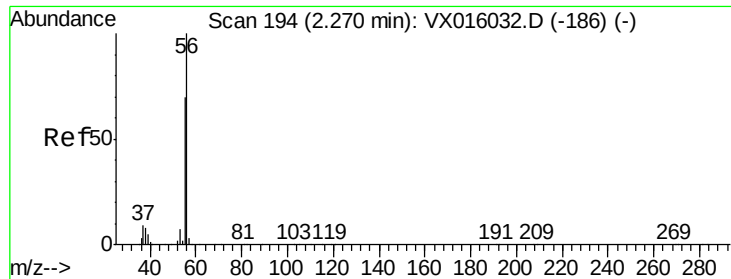
50

0

Time-->

2.95 3.00 3.05





#13

Acrolein

Concen: 0.901 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

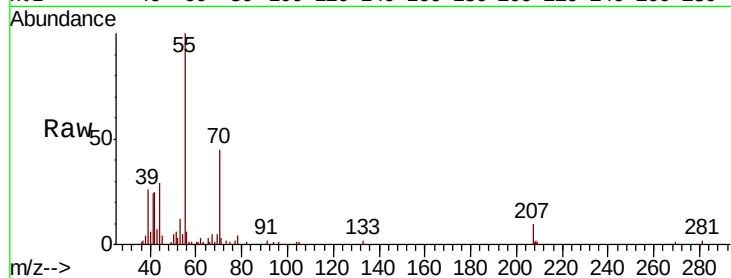
RW-3

Tot Ion: 56 Resp: 462

Ion Ratio Lower Upper

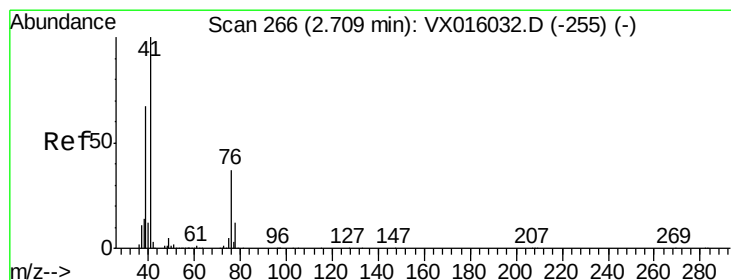
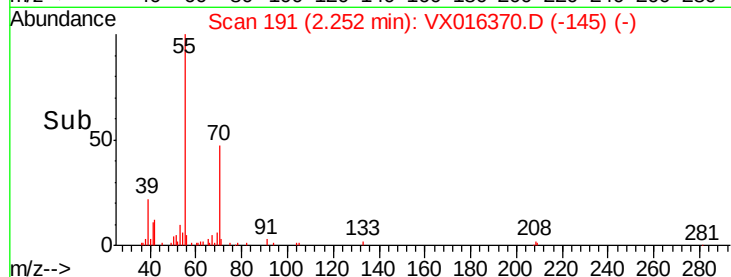
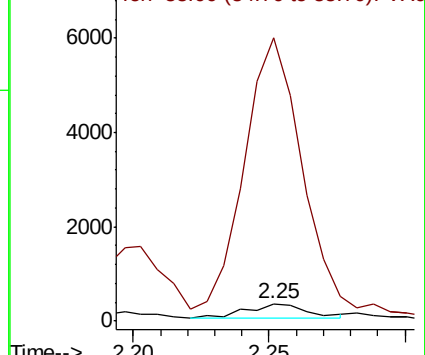
56 100

55 1985.7 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.236 ug/l

RT: 2.76 min Scan# 275

Delta R.T. 0.05 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

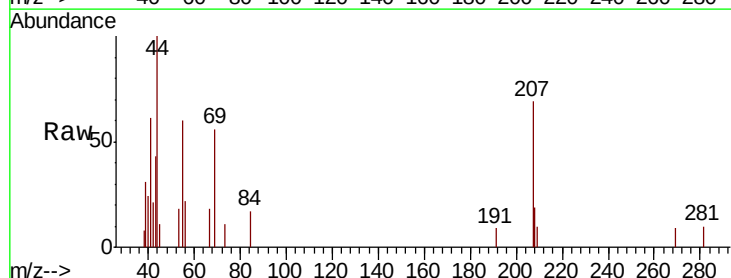
Tgt Ion: 41 Resp: 1107

Ion Ratio Lower Upper

41 100

39 0.0 50.5 75.7#

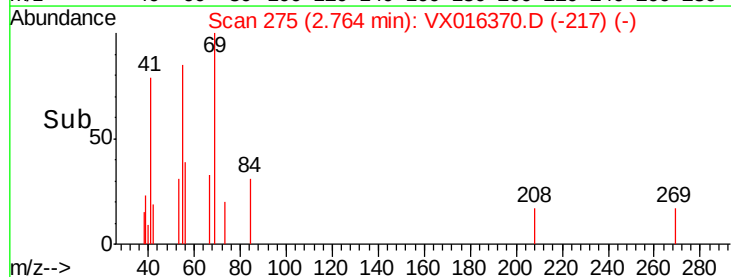
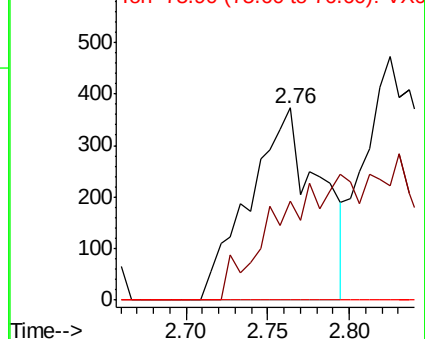
76 0.0 26.6 40.0#

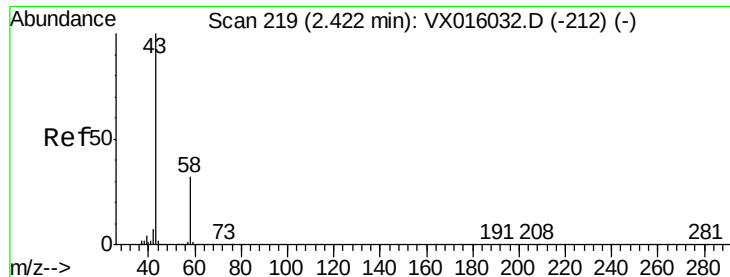


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

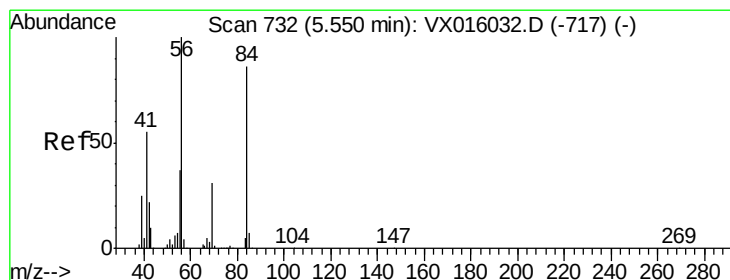
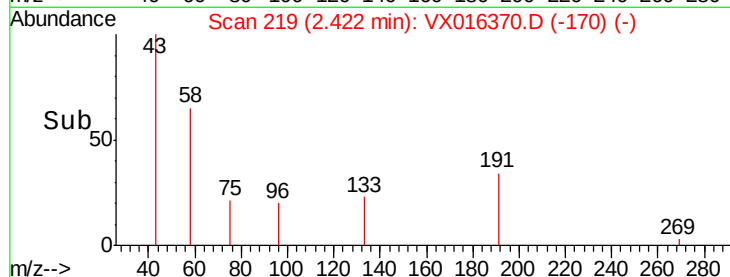
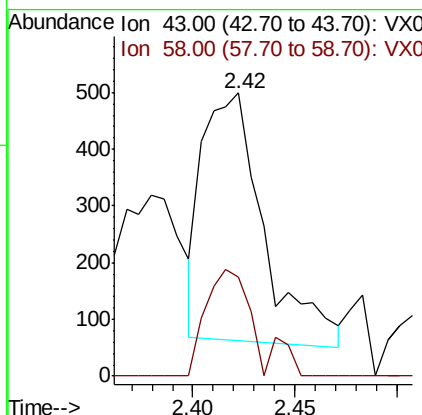
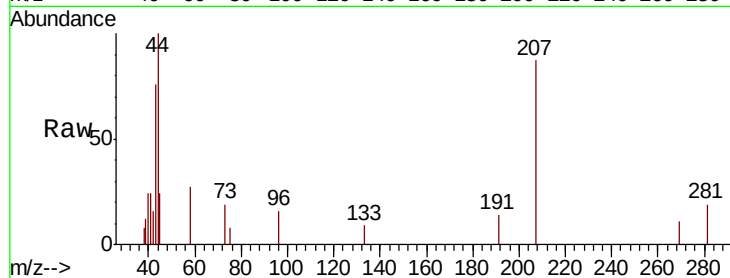




#16
Acetone
Concen: 0.626 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

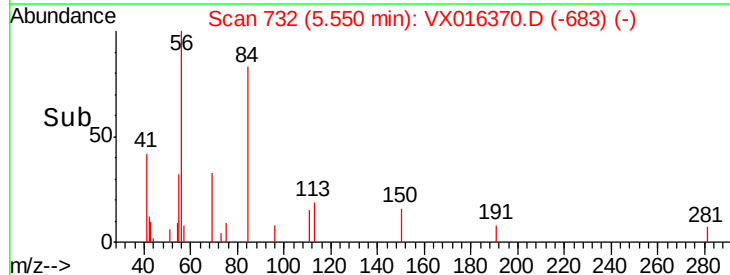
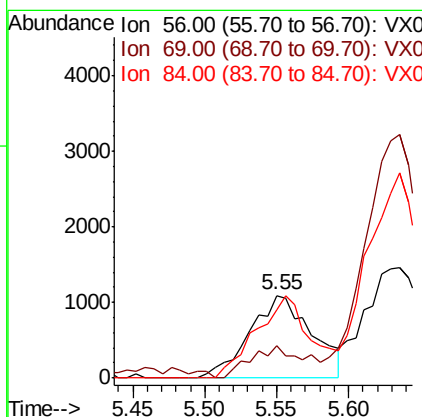
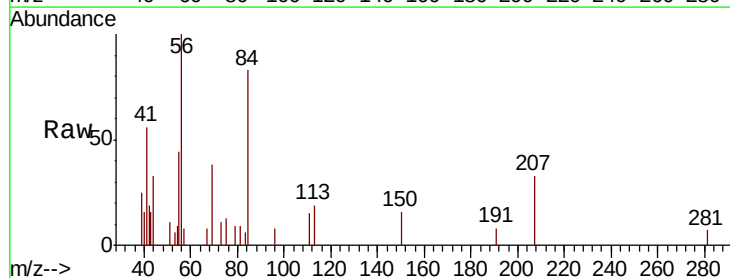
Instrument :
MSVOA_X
ClientSampled :
RW-3

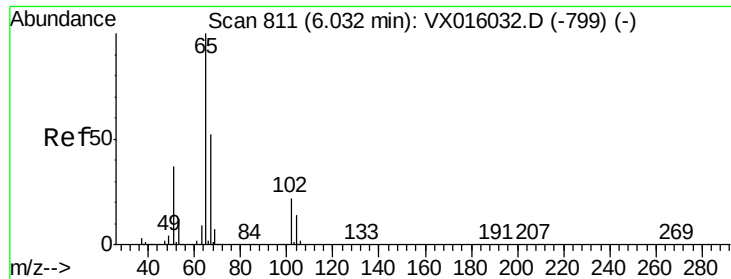
Tot Ion: 43 Resp: 906
Ion Ratio Lower Upper
43 100
58 42.3 25.4 38.0#



#31
Cyclohexane
Concen: 0.731 ug/l
RT: 5.55 min Scan# 732
Delta R.T. -0.00 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

Tgt Ion: 56 Resp: 3290
Ion Ratio Lower Upper
56 100
69 33.4 25.0 37.6
84 82.8 69.0 103.6

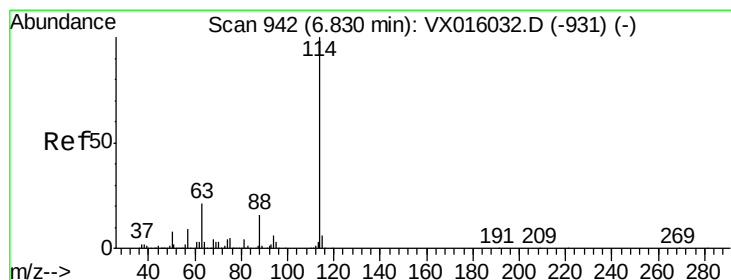
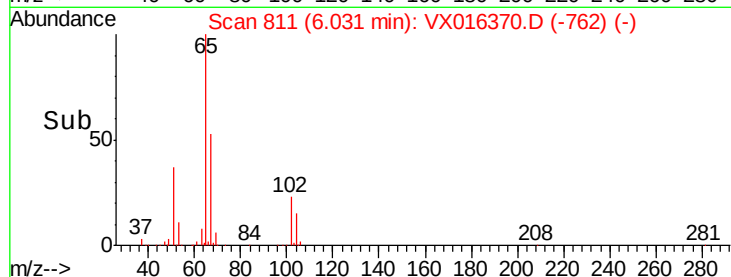
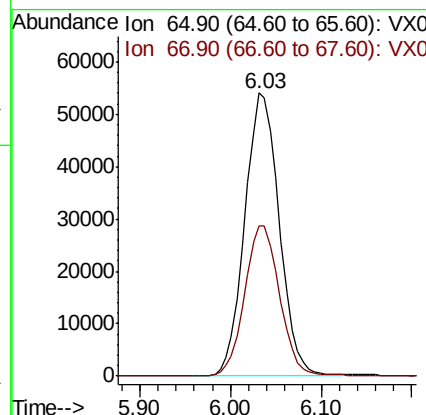
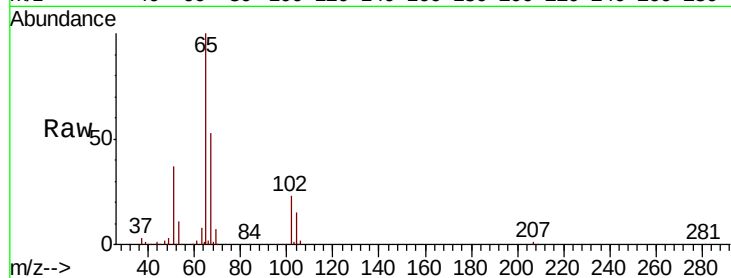




#33
 1,2-Dichloroethane-d4
 Concen: 43.986 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016370.D
 Acq: 20 May 2020 19:01

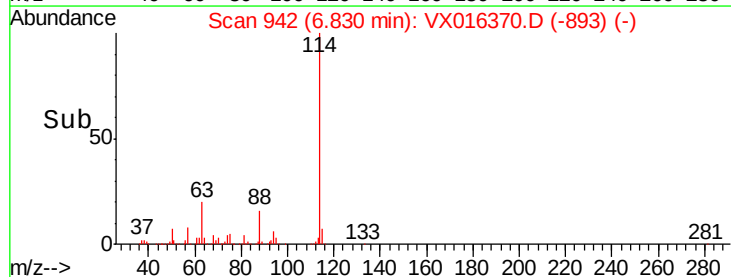
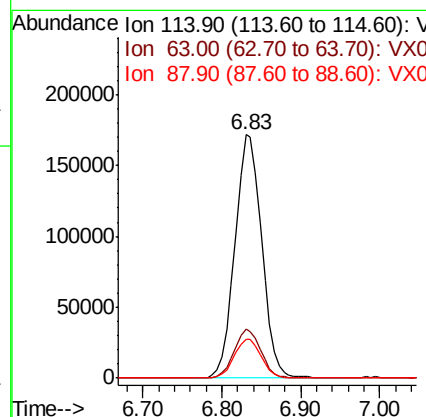
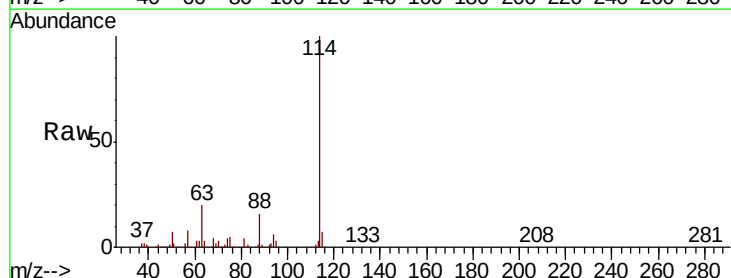
Instrument :
 MSVOA_X
 ClientSampleId :
 RW-3

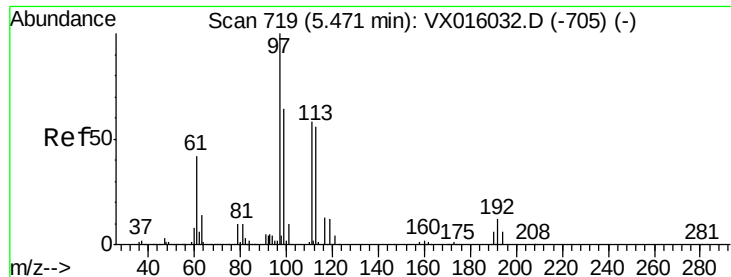
Tot Ion: 65 Resp: 142581
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016370.D
 Acq: 20 May 2020 19:01

Tgt Ion: 114 Resp: 406709
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.8
 88 15.9 0.0 31.4

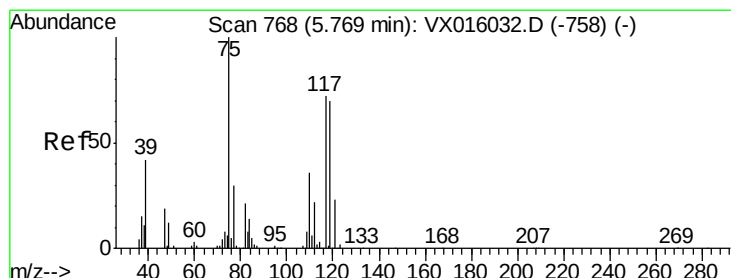
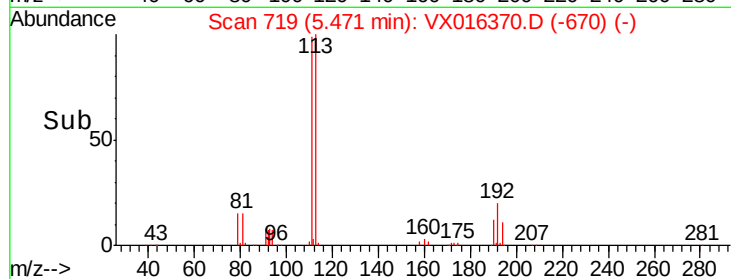
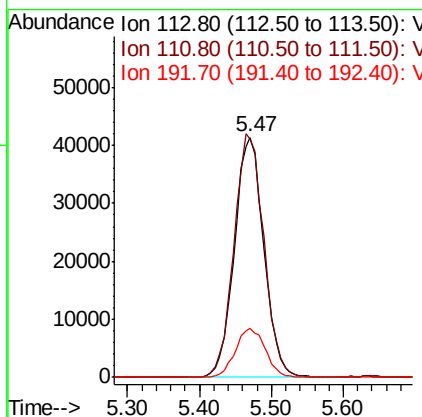
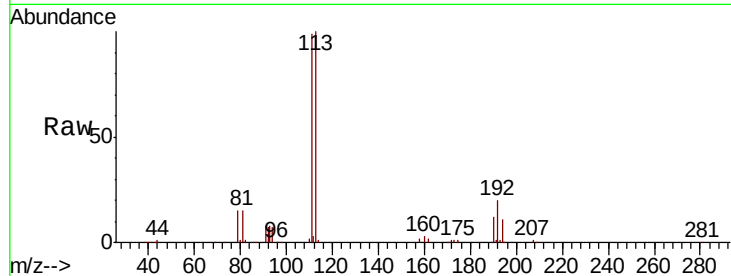




#35
 Dibromofluoromethane
 Concen: 45.540 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016370.D
 Acq: 20 May 2020 19:01

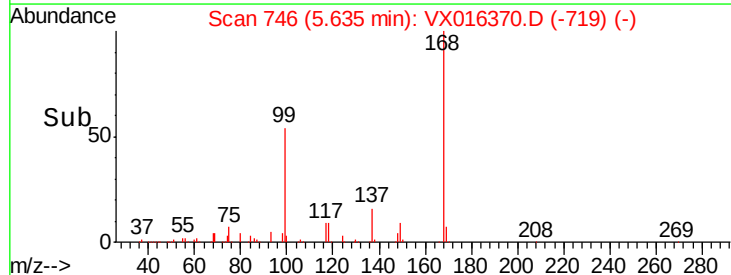
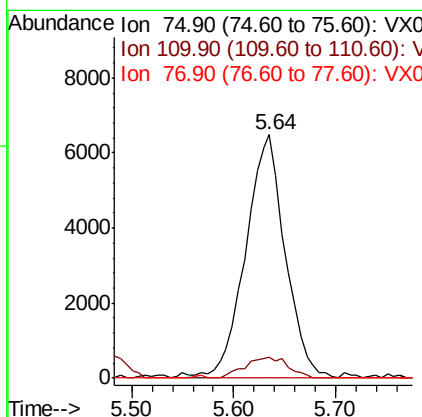
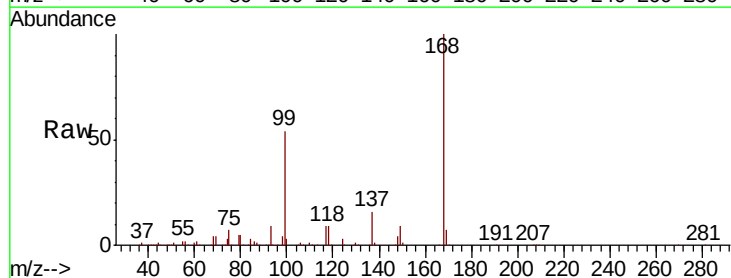
Instrument :
 MSVOA_X
 ClientSampled :
 RW-3

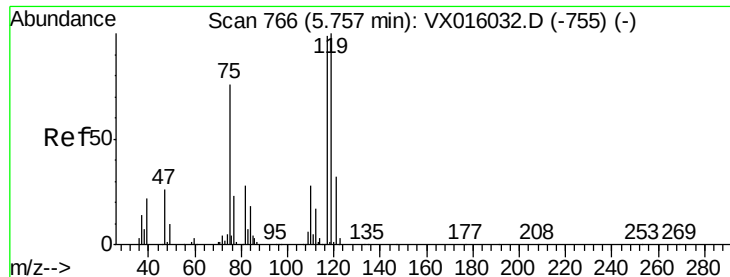
Tot Ion:113 Resp: 117341
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.6 122.4
 192 21.0 17.0 25.4



#36
 1,1-Dichloropropene
 Concen: 4.361 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016370.D
 Acq: 20 May 2020 19:01

Tgt Ion: 75 Resp: 17461
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.1 54.1#
 77 0.0 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 5.666 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampled :

RW-3

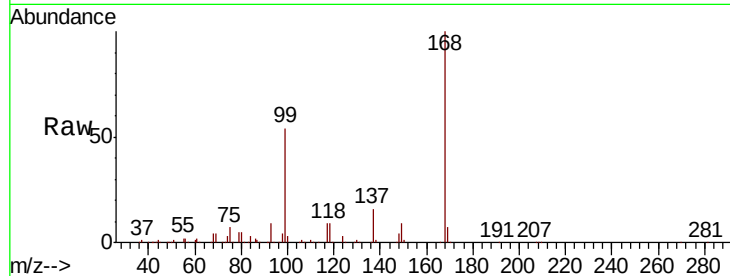
Tot Ion:117 Resp: 23058

Ion Ratio Lower Upper

117 100

119 5.3 80.3 120.5#

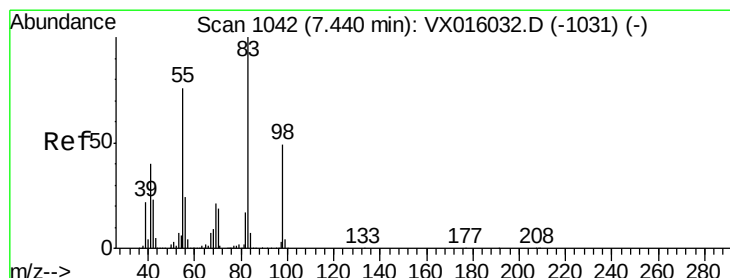
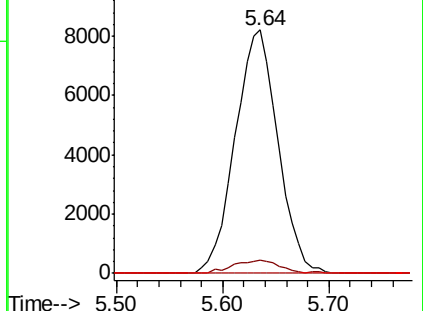
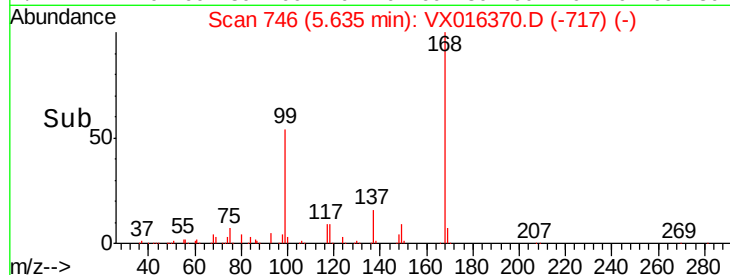
121 0.0 25.7 38.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.380 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

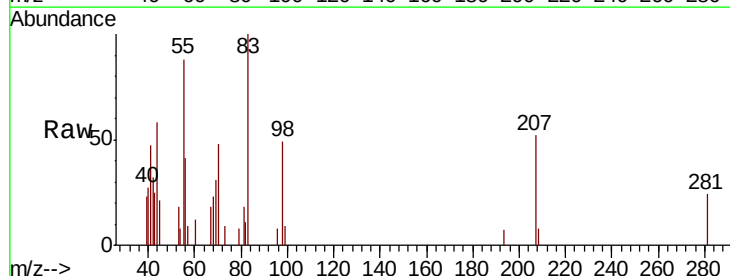
Tgt Ion: 83 Resp: 1831

Ion Ratio Lower Upper

83 100

55 87.7 61.1 91.7

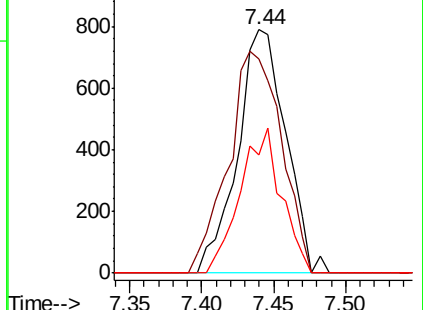
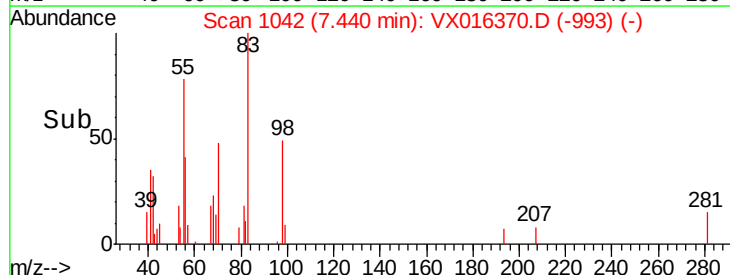
98 48.7 39.0 58.4

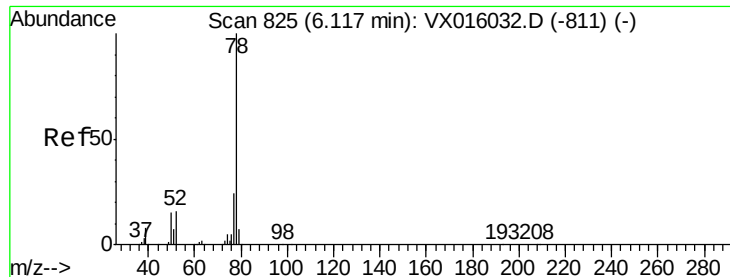


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 0.415 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampled :

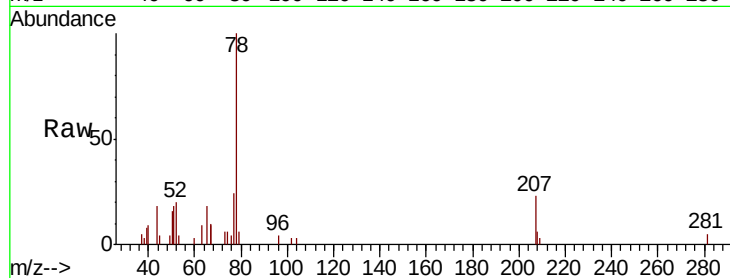
RW-3

Tot Ion: 78 Resp: 4856

Ion Ratio Lower Upper

78 100

77 24.1 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.12

2000

1500

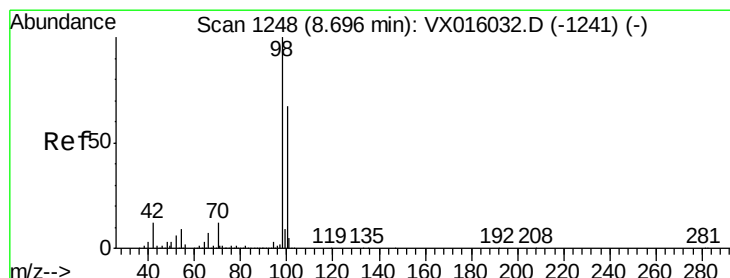
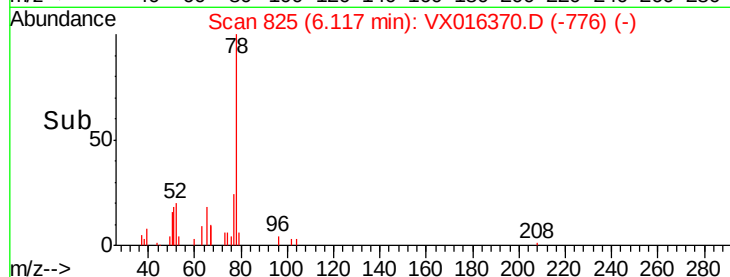
1000

500

0

6.00 6.10 6.20

Time-->



#50

Toluene-d8

Concen: 50.195 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016370.D

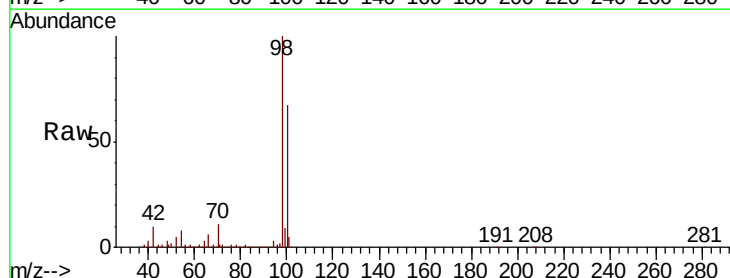
Acq: 20 May 2020 19:01

Tgt Ion: 98 Resp: 498337

Ion Ratio Lower Upper

98 100

100 67.4 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

300000

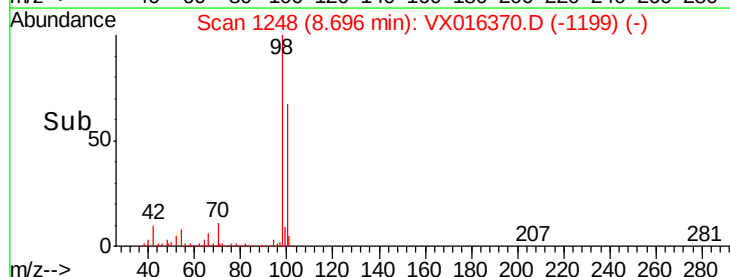
200000

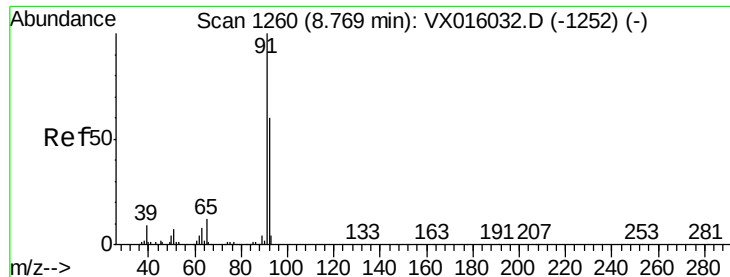
100000

0

8.60 8.70 8.80

Time-->





#52

Toluene

Concen: 1.871 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

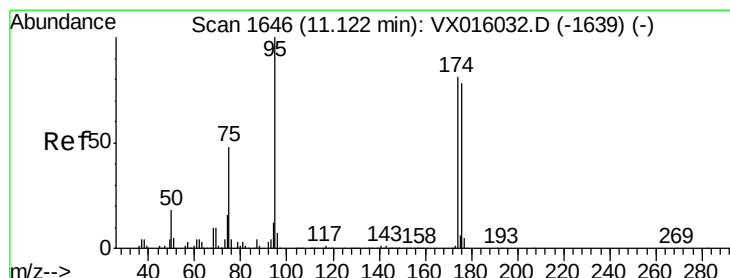
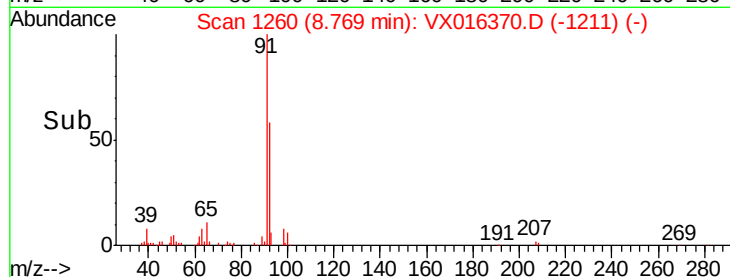
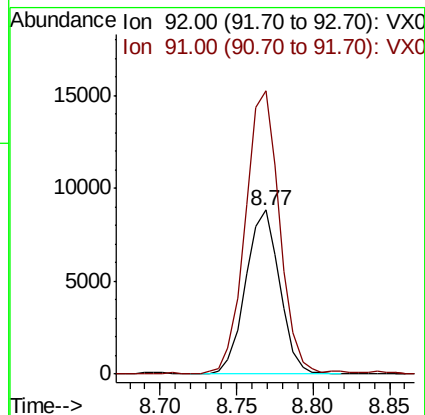
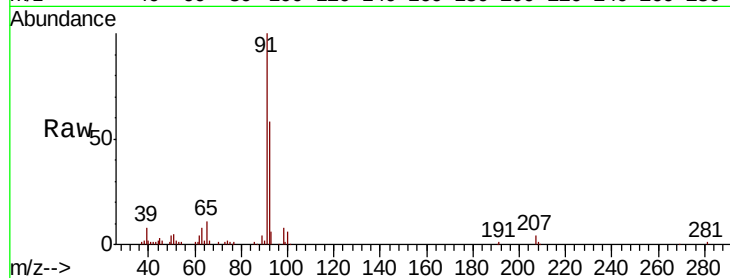
RW-3

Tot Ion: 92 Resp: 13661

Ion Ratio Lower Upper

92 100

91 174.7 134.5 201.7



#62

4-Bromofluorobenzene

Concen: 53.711 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

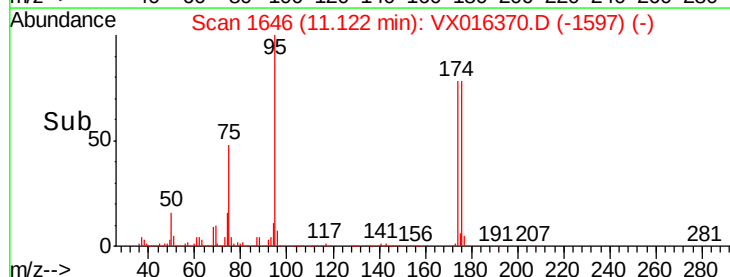
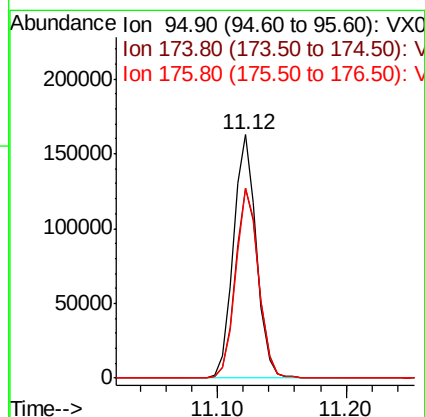
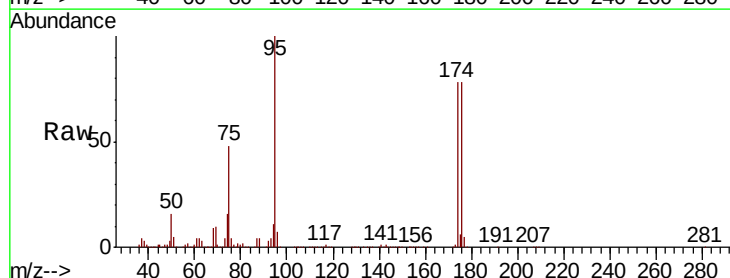
Tgt Ion: 95 Resp: 202824

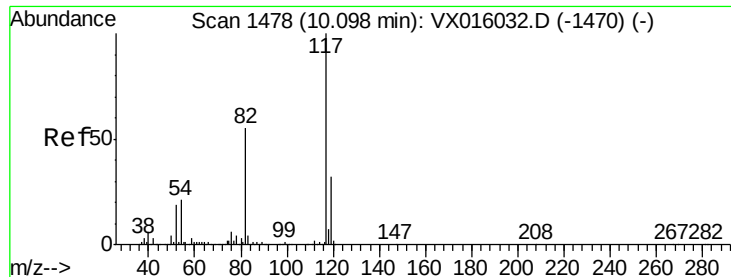
Ion Ratio Lower Upper

95 100

174 78.8 0.0 159.4

176 77.8 0.0 157.6

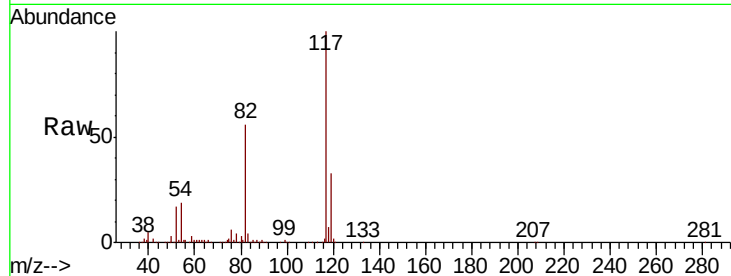




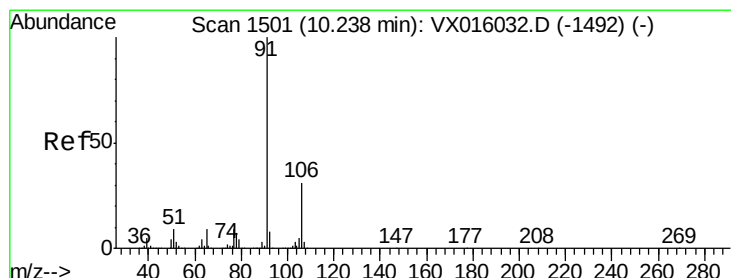
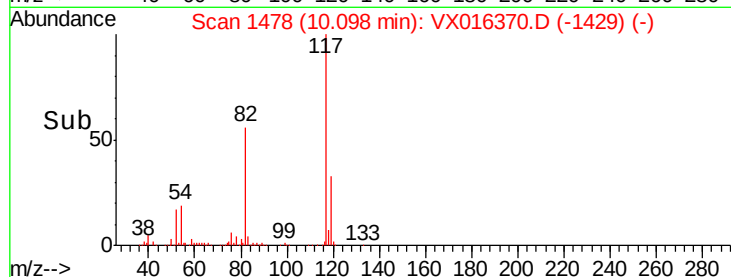
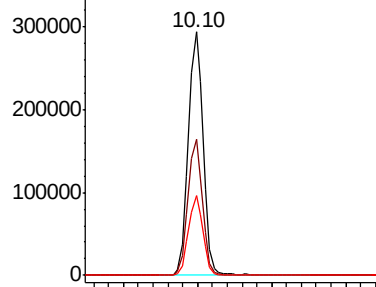
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

Instrument :
MSVOA_X
ClientSampleId :
RW-3

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.0	44.4	66.6
119	32.6	25.5	38.3

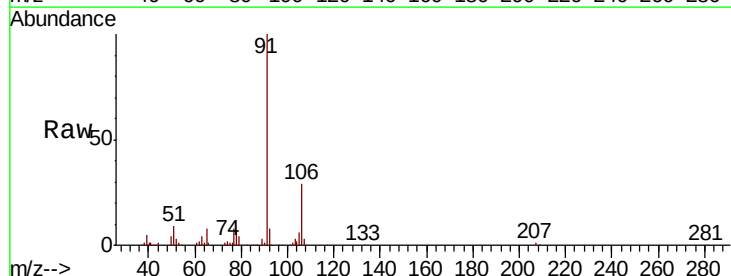


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

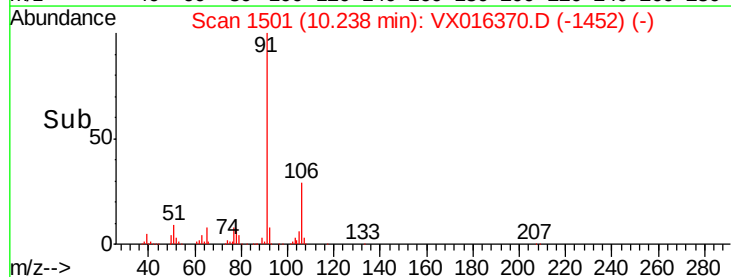
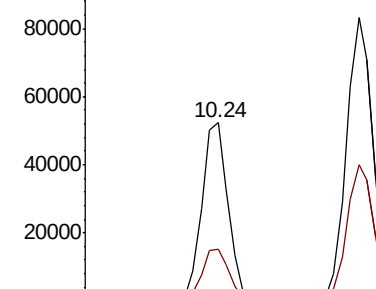


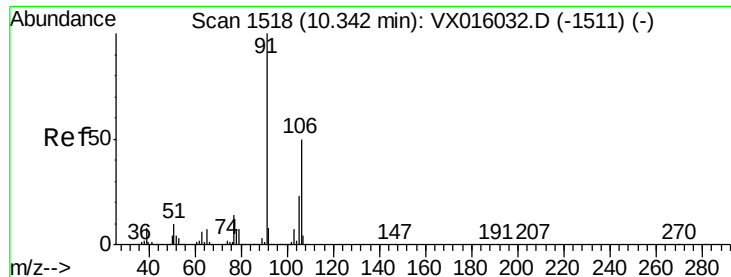
#67
Ethyl Benzene
Concen: 4.707 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.1	37.7



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V

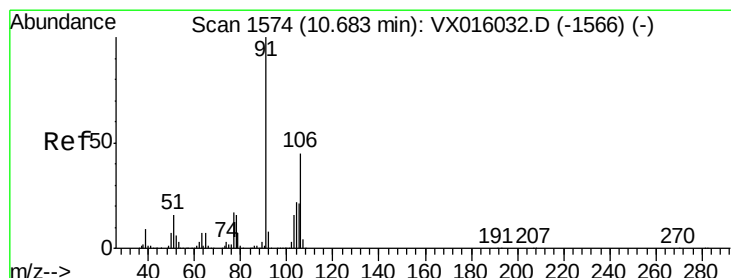
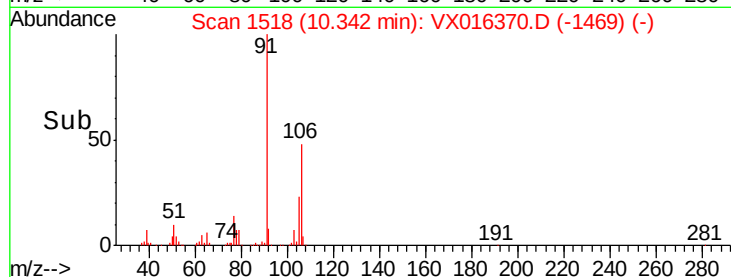
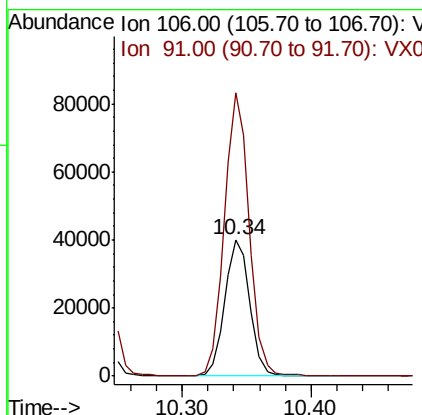
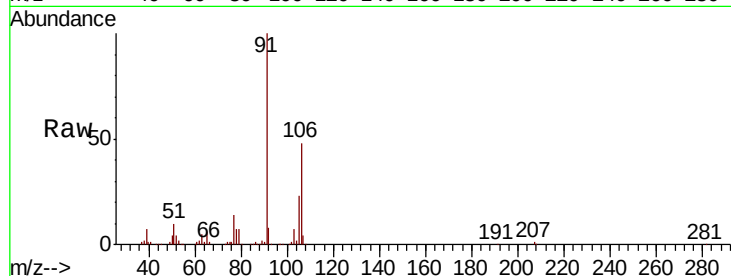




#68
m/p-Xylenes
Concen: 9.749 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

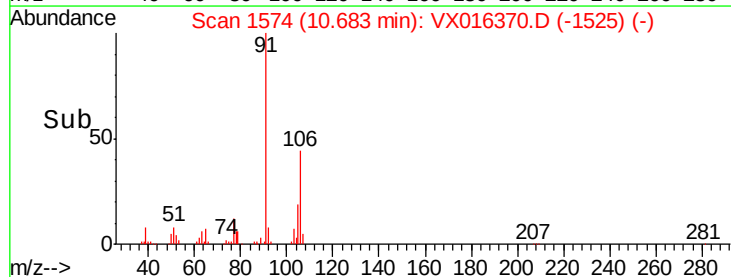
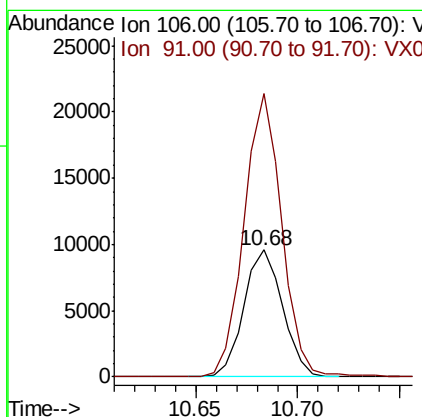
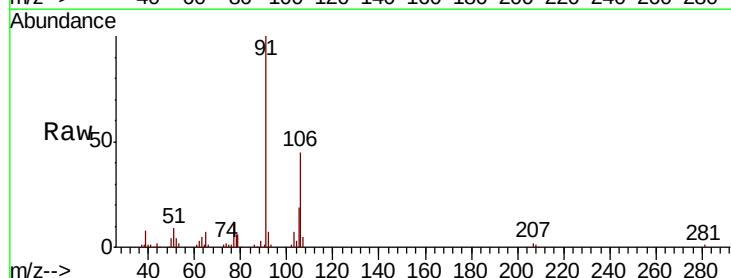
Instrument :
MSVOA_X
ClientSampled :
RW-3

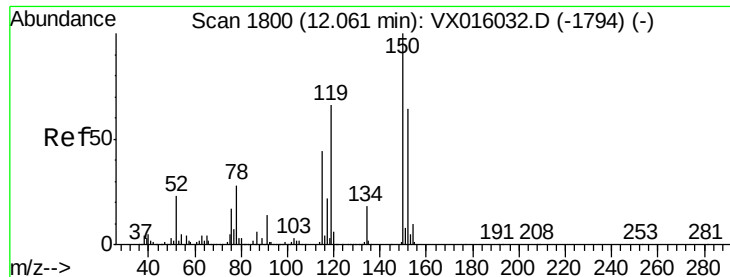
Tot Ion:106 Resp: 54761
Ion Ratio Lower Upper
106 100
91 206.5 161.7 242.5



#69
o-Xylene
Concen: 2.341 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

Tgt Ion:106 Resp: 12642
Ion Ratio Lower Upper
106 100
91 217.1 107.5 322.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

RW-3

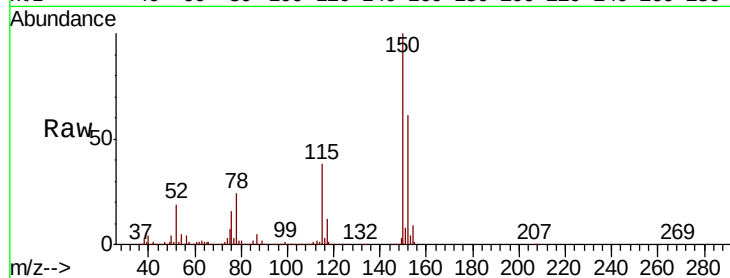
Tot Ion:152 Resp: 199494

Ion Ratio Lower Upper

152 100

115 59.3 41.3 124.1

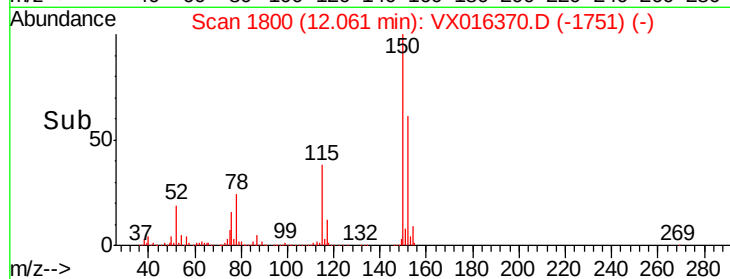
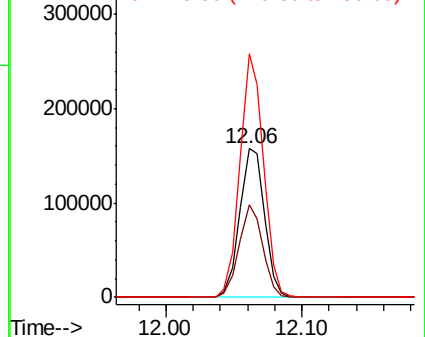
150 155.6 0.0 352.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.495 ug/l

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016370.D

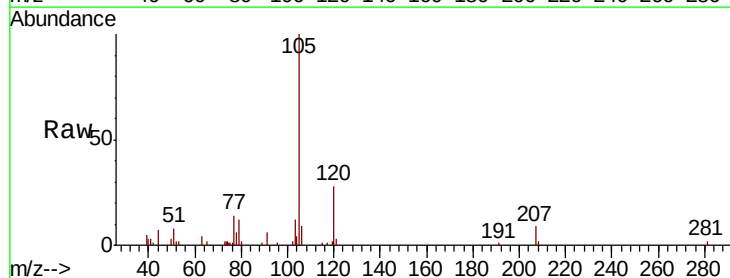
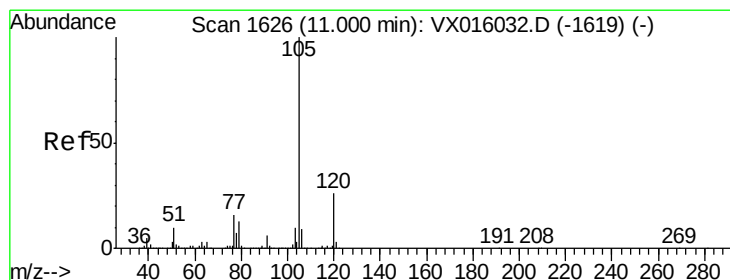
Acq: 20 May 2020 19:01

Tgt Ion:105 Resp: 7188

Ion Ratio Lower Upper

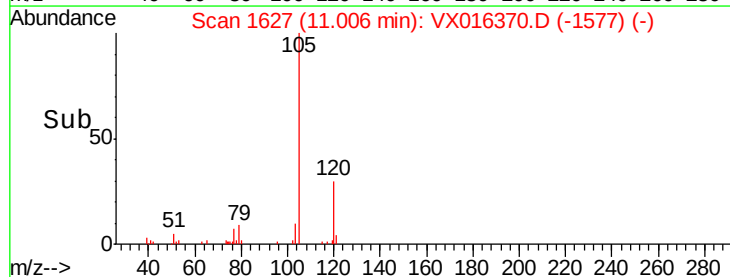
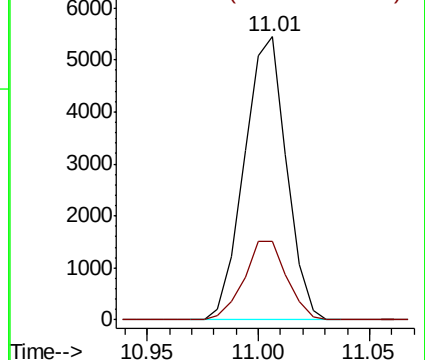
105 100

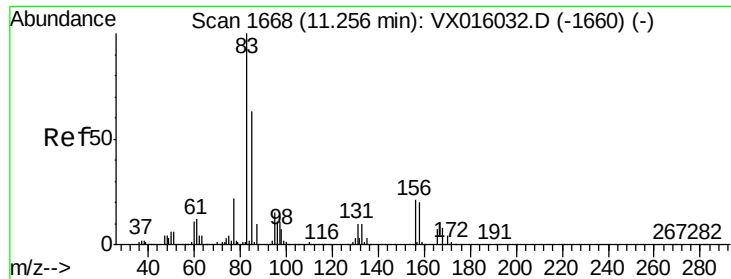
120 28.4 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.094 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

RW-3

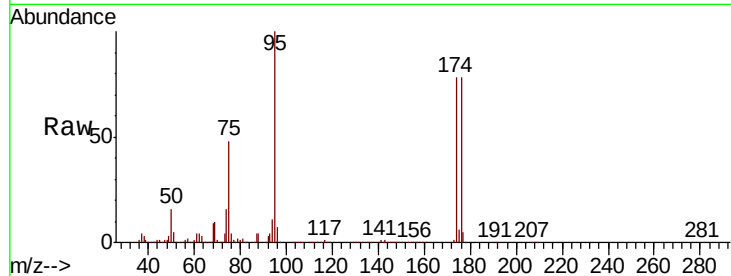
Tot Ion: 83 Resp: 122

Ion Ratio Lower Upper

83 100

131 214.8 5.1 15.4#

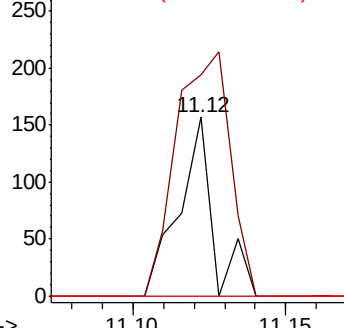
85 0.0 32.0 96.0#



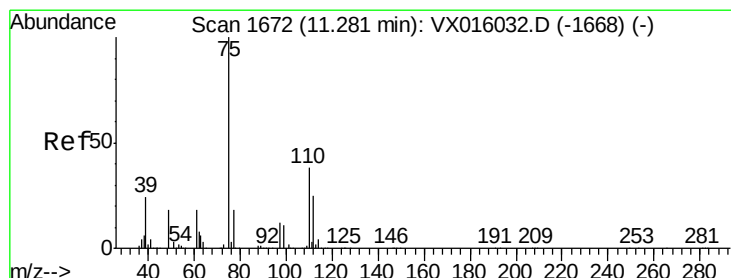
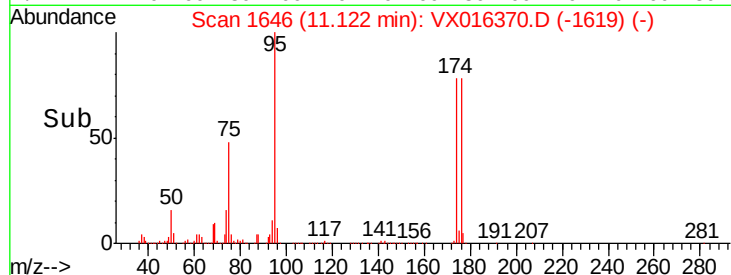
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.474 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016370.D

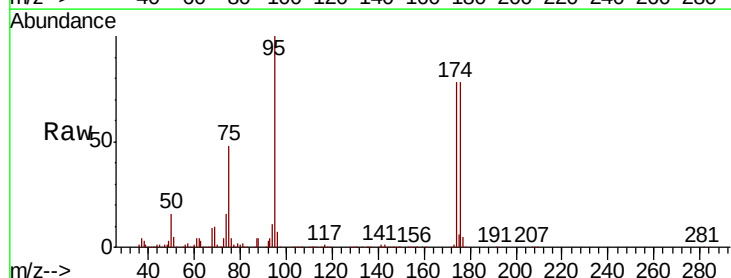
Acq: 20 May 2020 19:01

Tgt Ion: 75 Resp: 97211

Ion Ratio Lower Upper

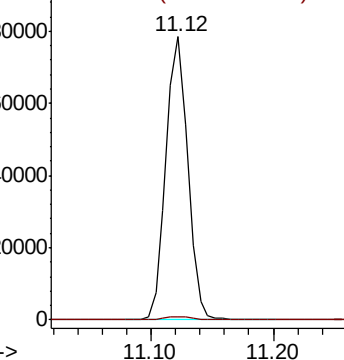
75 100

77 1.2 21.2 63.6#

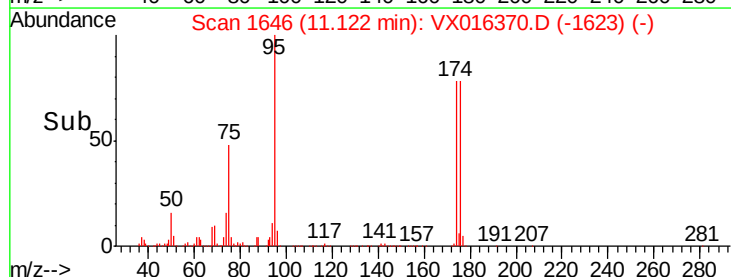


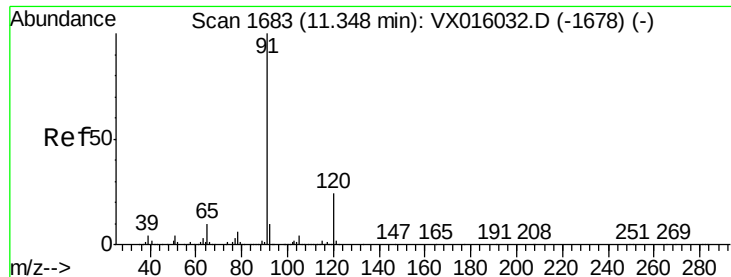
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->

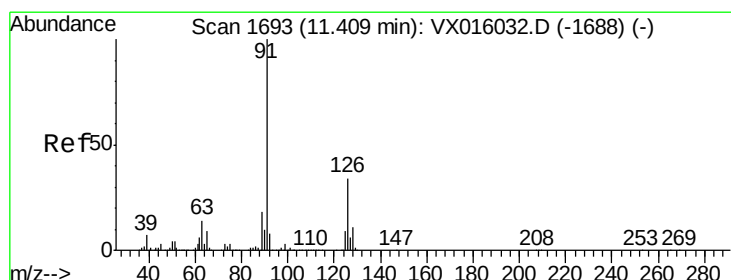
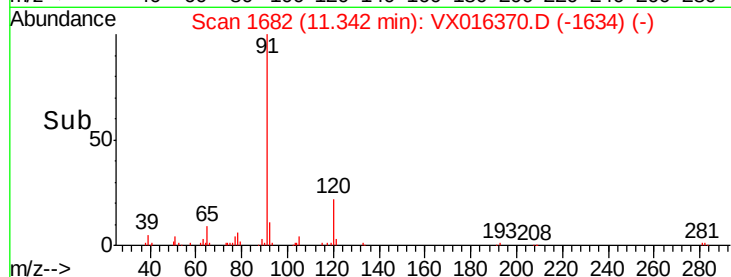
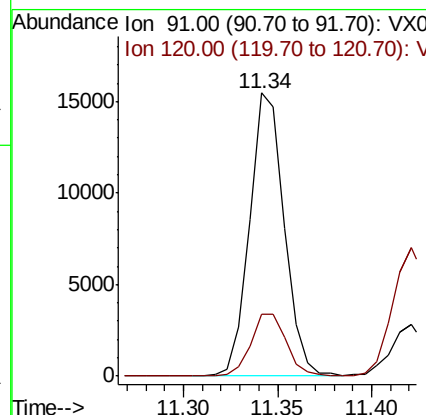
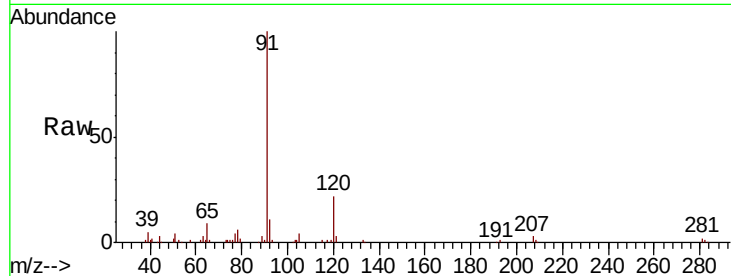




#78
n-propylbenzene
Concen: 1.168 ug/l
RT: 11.34 min Scan# 1682
Delta R.T. -0.01 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

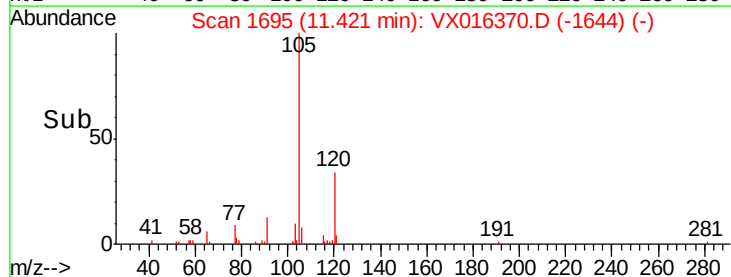
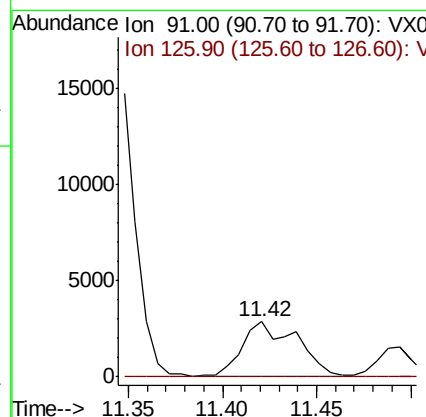
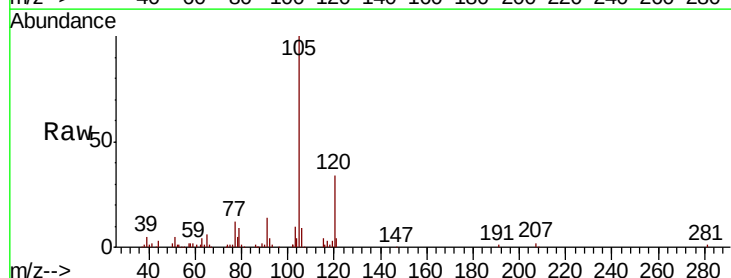
Instrument :
MSVOA_X
ClientSampleId :
RW-3

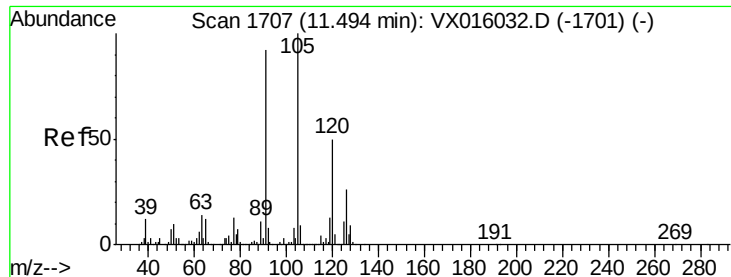
Tot Ion: 91 Resp: 19712
Ion Ratio Lower Upper
91 100
120 22.5 11.5 34.5



#79
2-Chlorotoluene
Concen: 0.583 ug/l
RT: 11.42 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VX016370.D
Acq: 20 May 2020 19:01

Tgt Ion: 91 Resp: 5811
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.6#





#80

1,3,5-Trimethylbenzene

Concen: 1.330 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

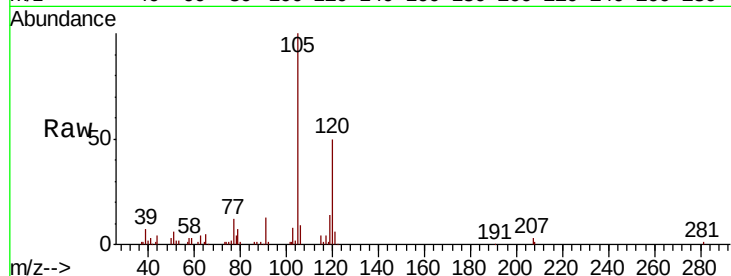
RW-3

Tot Ion:105 Resp: 16294

Ion Ratio Lower Upper

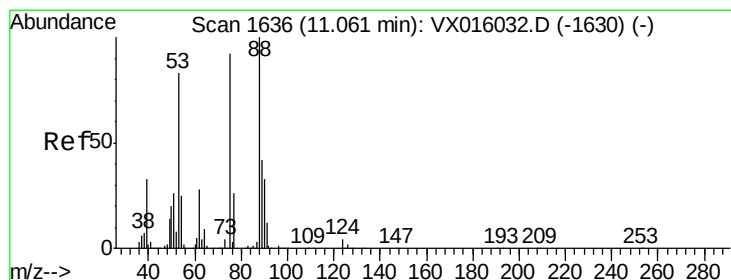
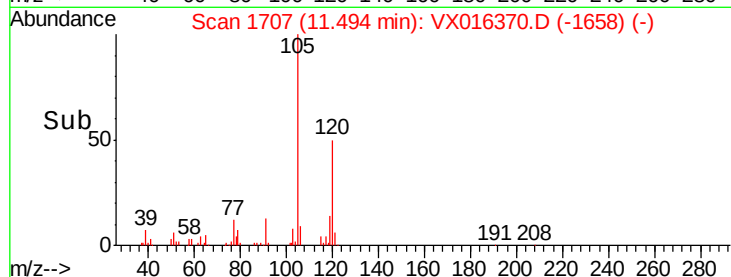
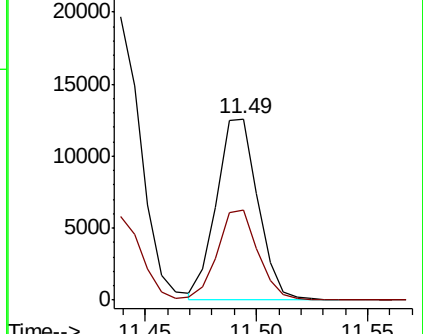
105 100

120 49.3 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 51.173 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

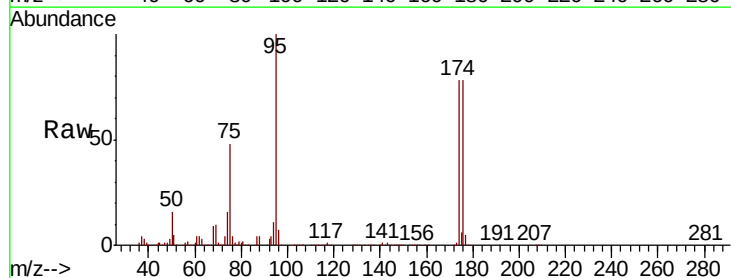
Tgt Ion: 75 Resp: 97211

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

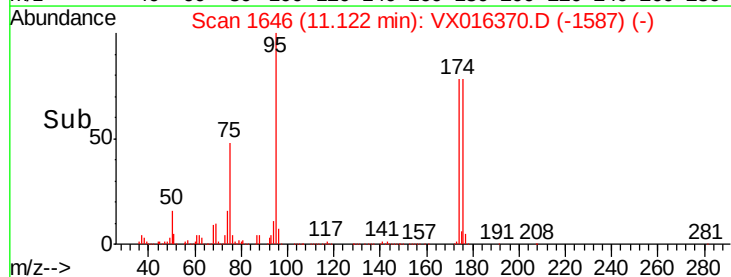
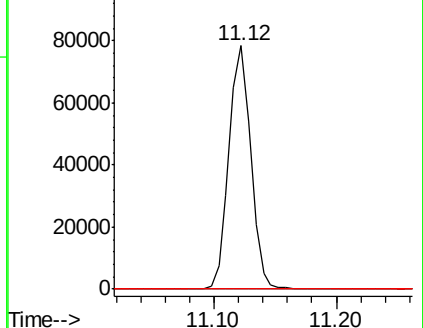
89 0.0 36.7 55.1#

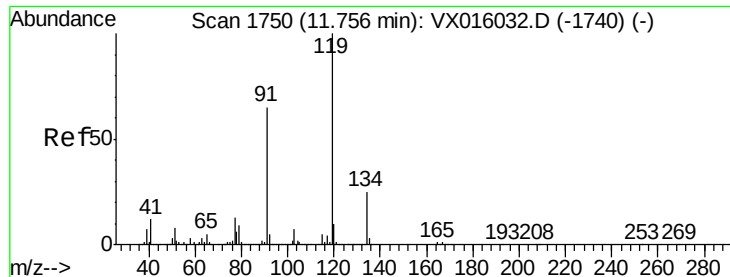


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#83

tert-Butylbenzene

Concen: 0.451 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.04 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampled :

RW-3

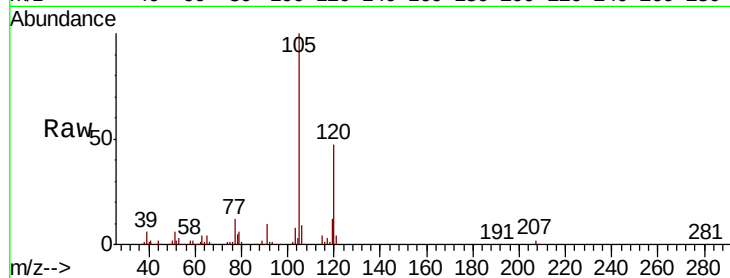
Tot Ion:119 Resp: 4764

Ion Ratio Lower Upper

119 100

91 83.1 32.8 98.4

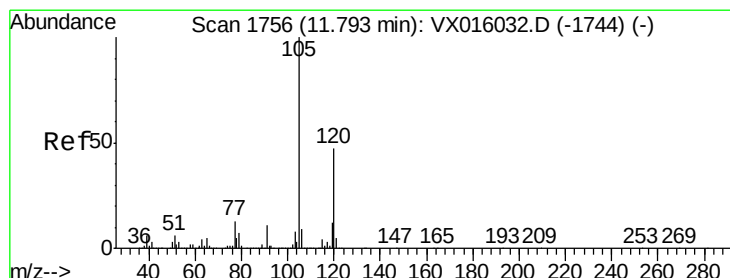
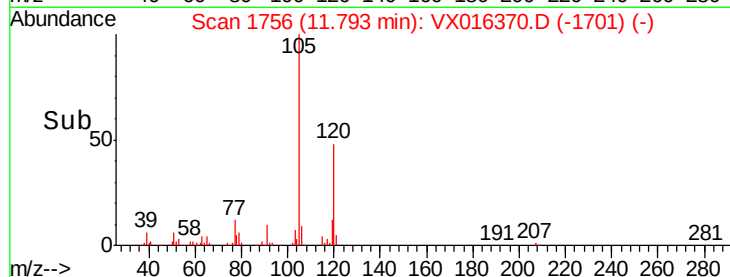
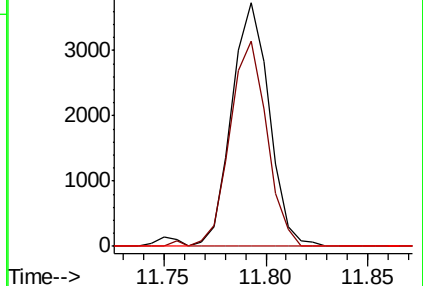
134 0.0 12.4 37.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.206 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016370.D

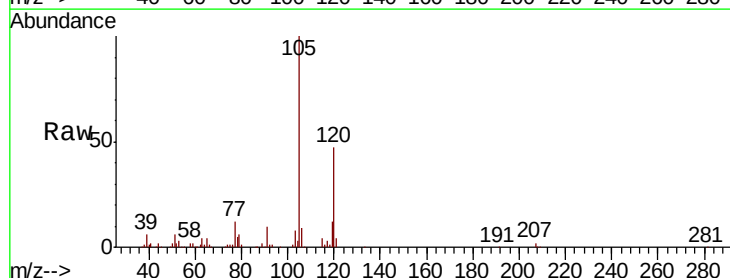
Acq: 20 May 2020 19:01

Tgt Ion:105 Resp: 39711

Ion Ratio Lower Upper

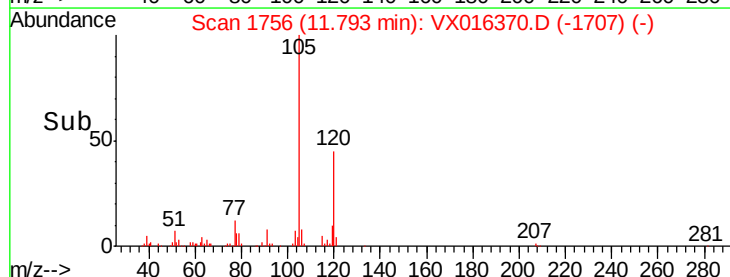
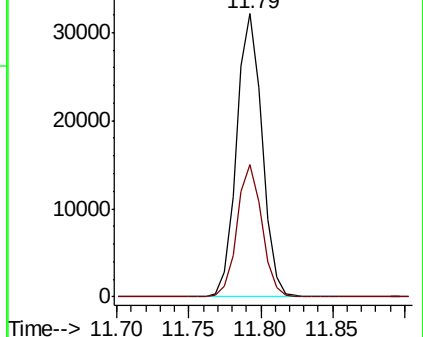
105 100

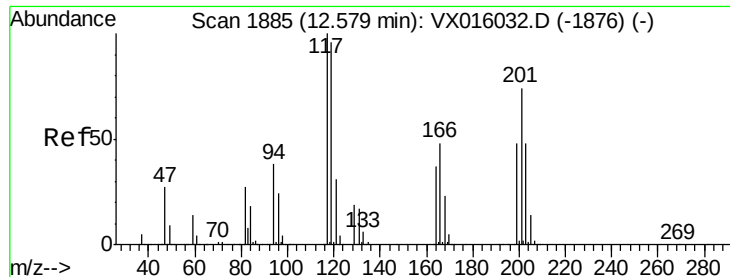
120 45.4 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 0.225 ug/l

RT: 12.58 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

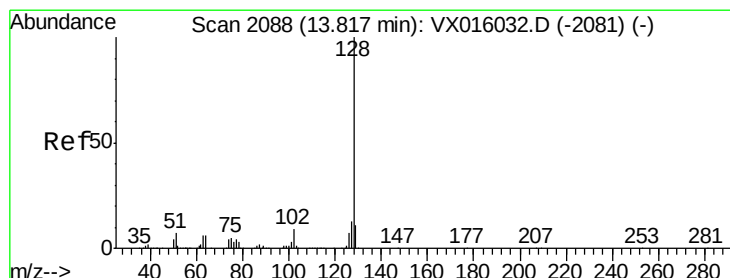
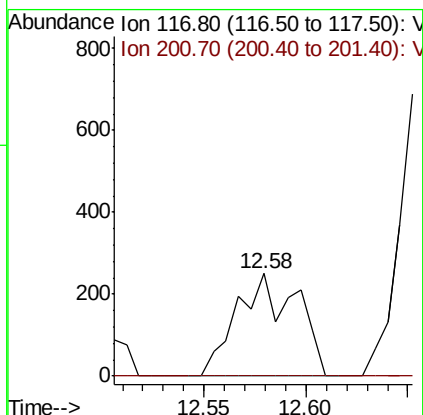
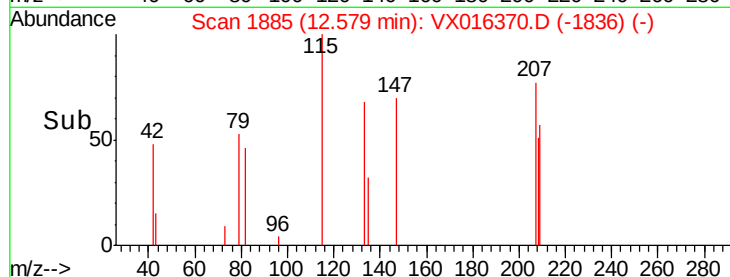
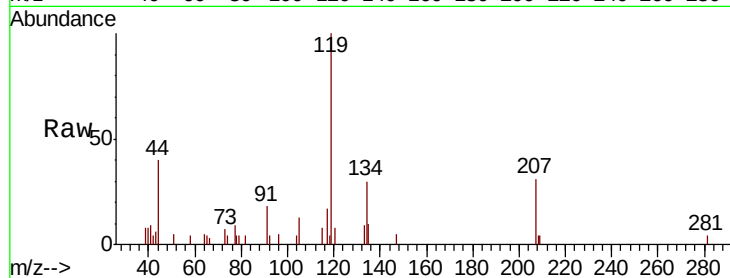
RW-3

Tot Ion:117 Resp: 511

Ion Ratio Lower Upper

117 100

201 0.0 39.8 119.3#



#95

Naphthalene

Concen: 0.703 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016370.D

Acq: 20 May 2020 19:01

Tgt Ion:128 Resp: 10920

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 10.6 8.7 13.1

