

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019097.D
 Acq On : 24 Oct 2020 01:30
 Operator : JC/SP
 Sample : L4417-13DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14DL

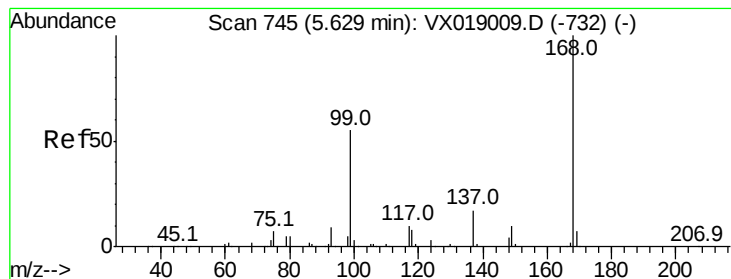
Quant Time: Oct 26 05:38:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 22 17:51:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	268861	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	465148	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	438625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	226637	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	163348	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
35) Dibromofluoromethane	5.46	113	143366	48.68	ug/l	-0.01
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.70	98	572042	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	11.12	95	203678	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	388	Below Cal	#	80
6) Chloroethane	1.81	64	70	1.298	ug/l #	8
10) Methyl Iodide	2.50	142	359	4.861	ug/l #	83
11) Tert butyl alcohol	3.02	59	67188	103.008	ug/l	99
13) Acrolein	2.30	56	24	13.717	ug/l #	16
15) Acrylonitrile	3.17	53	7105	5.633	ug/l #	33
16) Acetone	2.43	43	2176	1.984	ug/l	98
18) Methyl Acetate	2.75	43	555	0.204	ug/l #	44
19) Methyl tert-butyl Ether	3.17	73	751013	90.599	ug/l	100
25) 2-Butanone	4.65	43	1039	0.599	ug/l #	82
29) Tetrahydrofuran	5.11	42	222	0.214	ug/l #	22
31) Cyclohexane	5.54	56	1395	0.370	ug/l #	77
36) 1,1-Dichloropropene	5.63	75	19881	4.763	ug/l #	49
38) Carbon Tetrachloride	5.62	117	25487	5.818	ug/l #	16
40) Benzene	6.11	78	105245	8.562	ug/l	99
52) Toluene	8.76	92	4270	0.526	ug/l	100
59) 2-Hexanone	9.49	43	668	0.252	ug/l	89
67) Ethyl Benzene	10.24	91	36580	2.307	ug/l	96
68) m/p-Xylenes	10.34	106	1818	0.299	ug/l	87
73) Isopropylbenzene	11.00	105	13963	0.856	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	102714	22.675	ug/l #	36
78) n-propylbenzene	11.34	91	10821	0.586	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.12	75	102714	57.771	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.79	105	3006	0.223	ug/l	100
90) Hexachloroethane	12.69	117	660	0.294	ug/l #	12
95) Naphthalene	13.82	128	11553	0.713	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

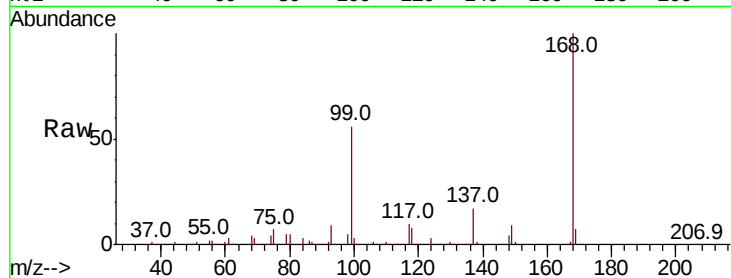
MW-14DL

Tot Ion:168 Resp: 268861

Ion Ratio Lower Upper

168 100

99 55.8 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

100000

80000

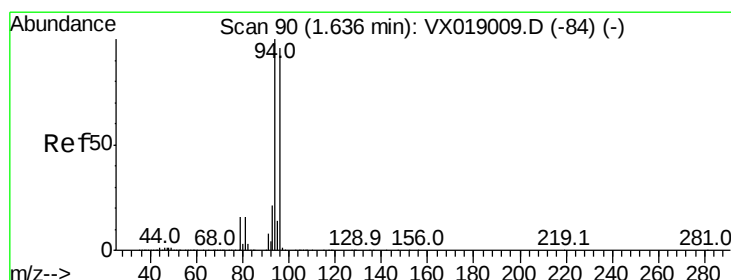
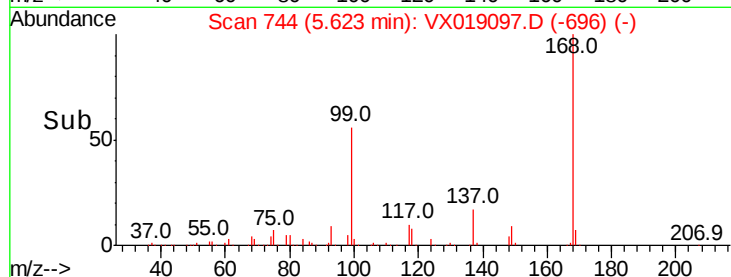
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019097.D

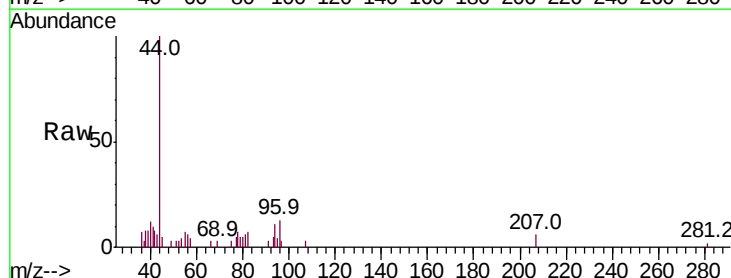
Acq: 24 Oct 2020 01:30

Tgt Ion: 94 Resp: 388

Ion Ratio Lower Upper

94 100

96 116.5 77.1 115.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

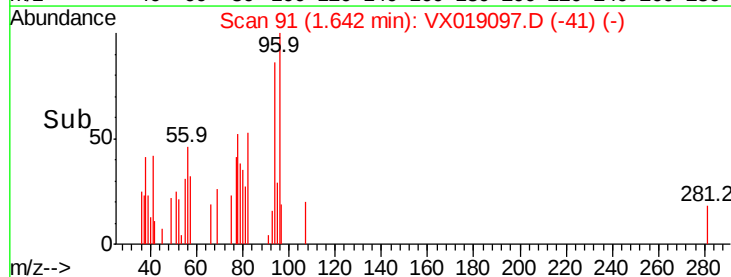
150

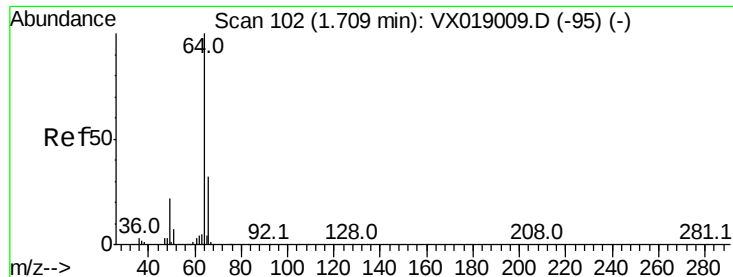
100

50

0

Time-->





#6

Chloroethane

Concen: 1.298 ug/l

RT: 1.81 min Scan# 119

Delta R.T. 0.10 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

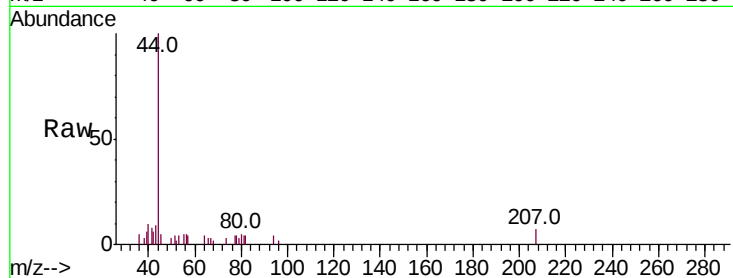
MW-14DL

Tot Ion: 64 Resp: 70

Ion Ratio Lower Upper

64 100

66 83.3 25.7 38.5#

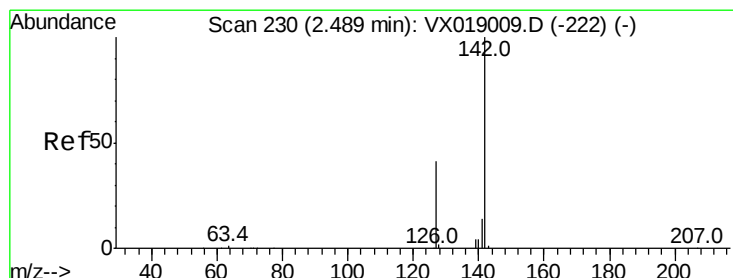
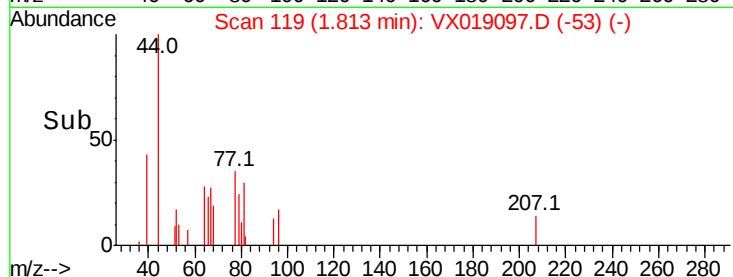


Abundance Ion 63.90 (63.60 to 64.60): VX019009.D (-95) (-)

Ion 65.90 (65.60 to 66.60): VX019009.D (-95) (-)

1.81

Time-->



#10

Methyl Iodide

Concen: 4.861 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

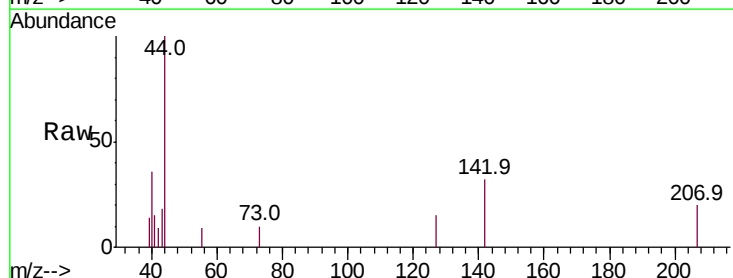
Tgt Ion: 142 Resp: 359

Ion Ratio Lower Upper

142 100

127 34.5 33.6 50.4

141 0.0 11.2 16.8#



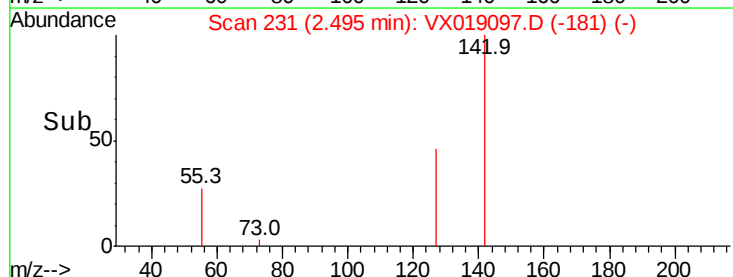
Abundance Ion 141.80 (141.50 to 142.50): VX019009.D (-222) (-)

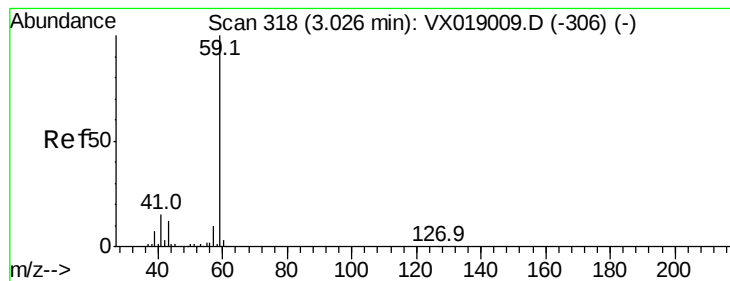
Ion 126.80 (126.50 to 127.50): VX019009.D (-222) (-)

Ion 140.80 (140.50 to 141.50): VX019009.D (-222) (-)

2.50

Time-->



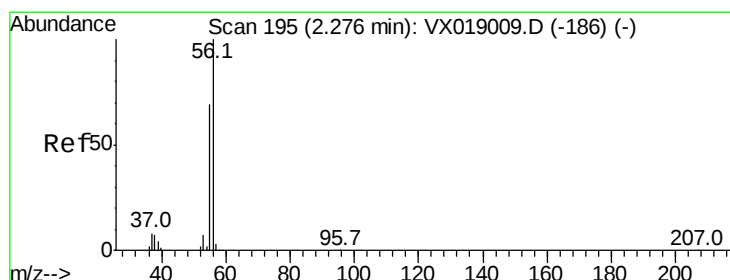
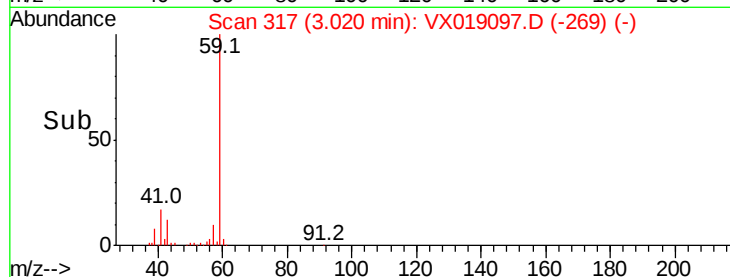
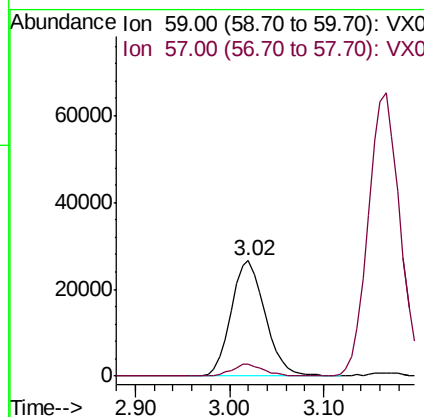
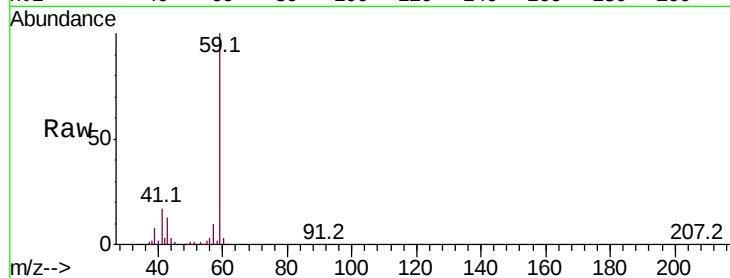


#11

Tert butyl alcohol
 Concen: 103.008 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. -0.01 min
 Lab File: VX019097.D
 Acq: 24 Oct 2020 01:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14DL

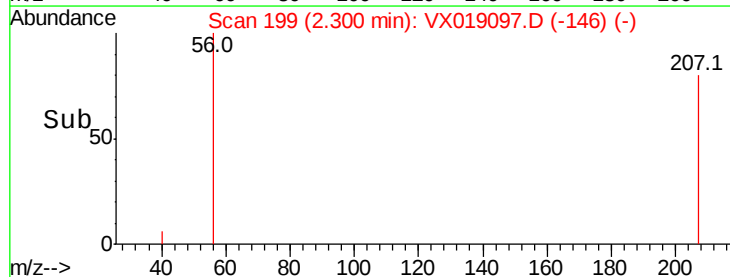
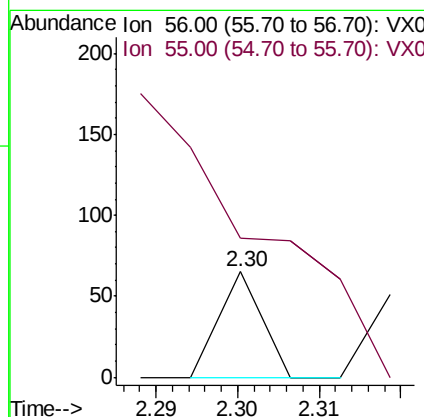
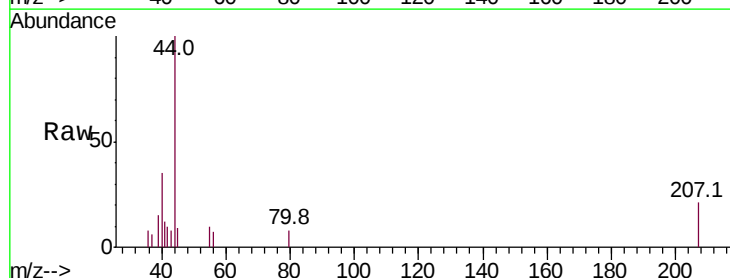
Tot Ion: 59 Resp: 67188
 Ion Ratio Lower Upper
 59 100
 57 10.0 8.2 12.2

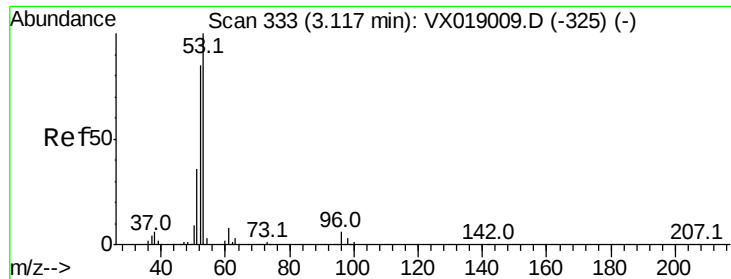


#13

Acrolein
 Concen: 13.717 ug/l
 RT: 2.30 min Scan# 199
 Delta R.T. 0.02 min
 Lab File: VX019097.D
 Acq: 24 Oct 2020 01:30

Tgt Ion: 56 Resp: 24
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.2 81.4#





#15

Acrylonitrile

Concen: 5.633 ug/l

RT: 3.17 min Scan# 341

Delta R.T. 0.05 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

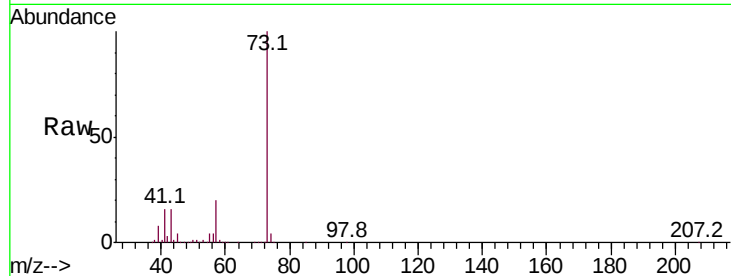
Tot Ion: 53 Resp: 7105

Ion Ratio Lower Upper

53 100

52 21.7 65.9 98.9#

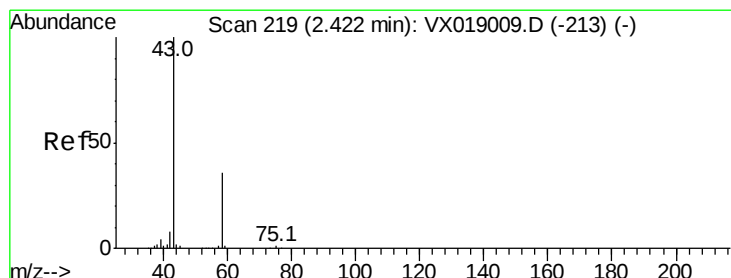
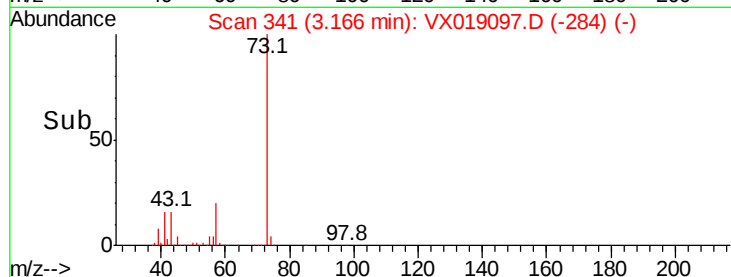
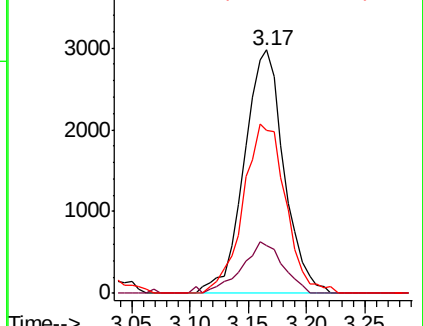
51 74.3 28.3 42.5#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.984 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019097.D

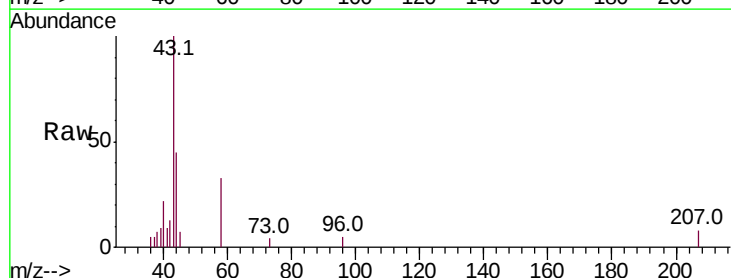
Acq: 24 Oct 2020 01:30

Tgt Ion: 43 Resp: 2176

Ion Ratio Lower Upper

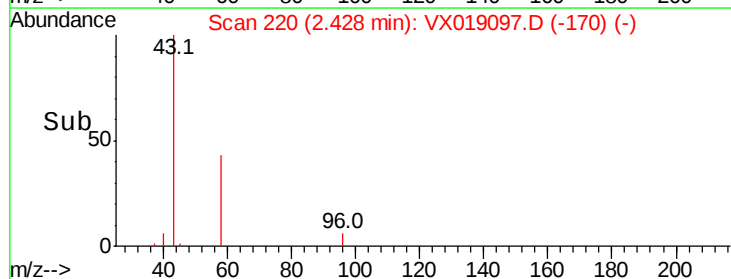
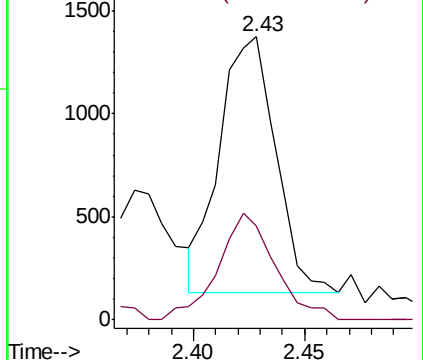
43 100

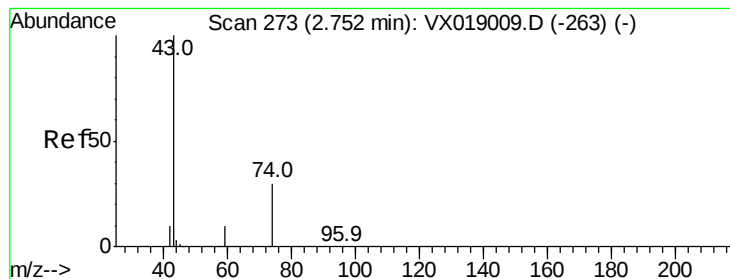
58 37.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methyl Acetate

Concen: 0.204 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

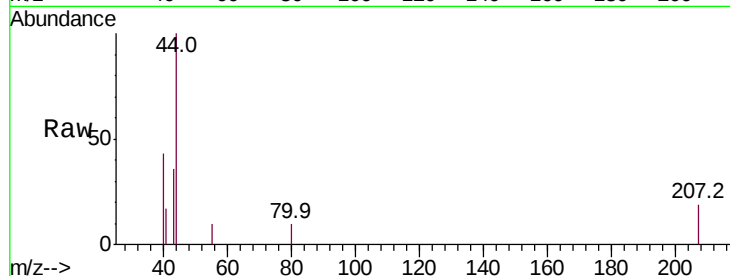
MW-14DL

Tot Ion: 43 Resp: 555

Ion Ratio Lower Upper

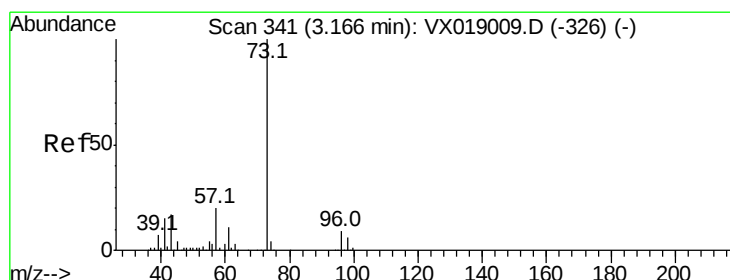
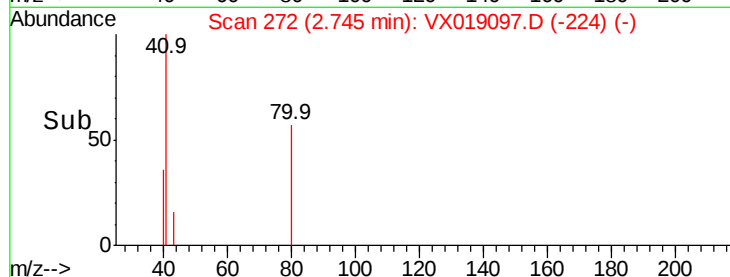
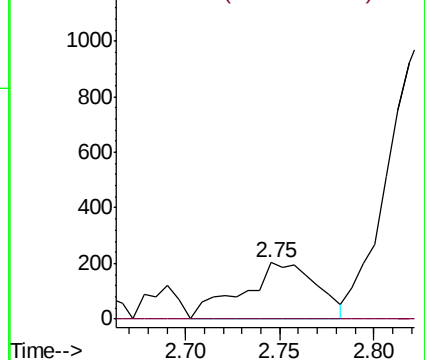
43 100

74 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#19

Methyl tert-butyl Ether

Concen: 90.599 ug/l

RT: 3.17 min Scan# 341

Delta R.T. -0.00 min

Lab File: VX019097.D

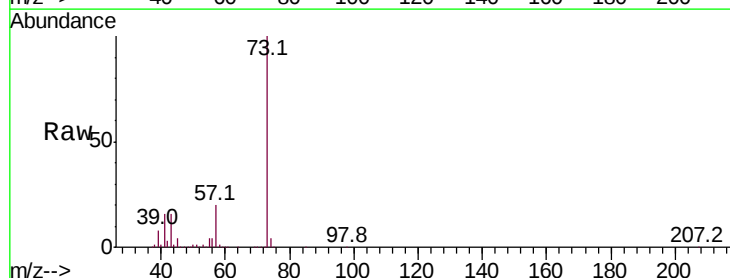
Acq: 24 Oct 2020 01:30

Tgt Ion: 73 Resp: 751013

Ion Ratio Lower Upper

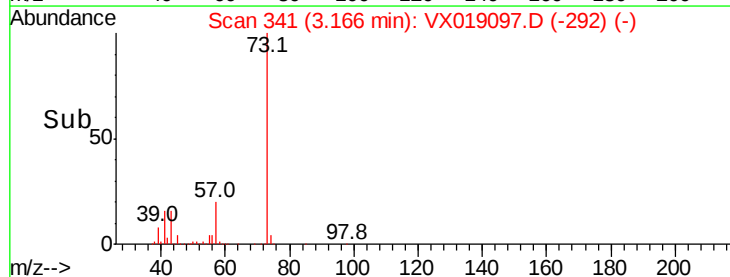
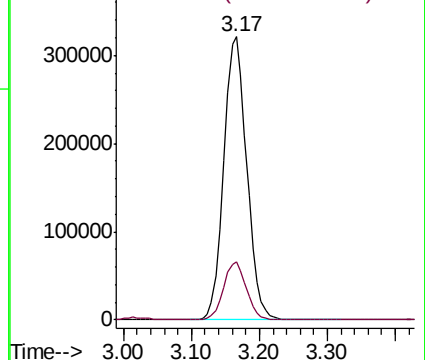
73 100

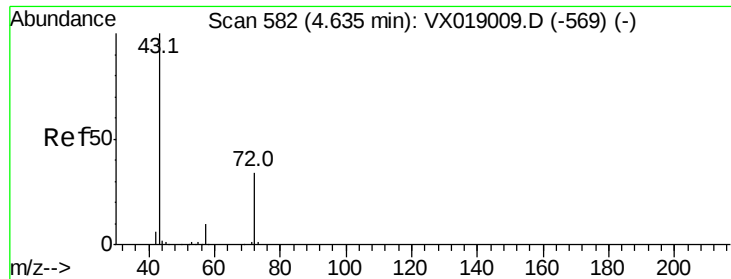
57 20.3 16.2 24.2



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#25

2-Butanone

Concen: 0.599 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

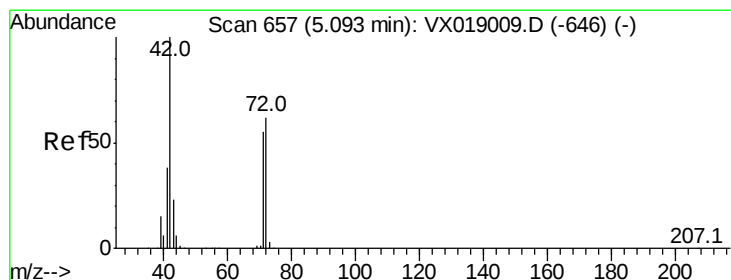
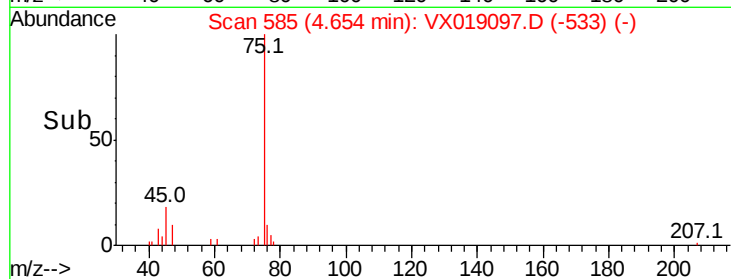
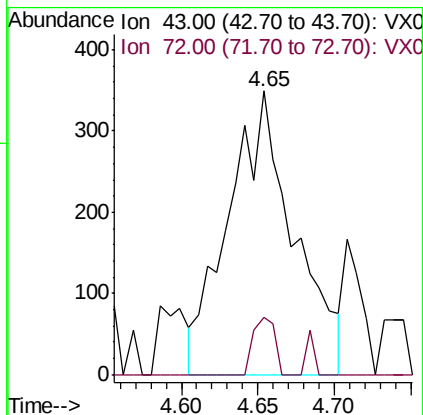
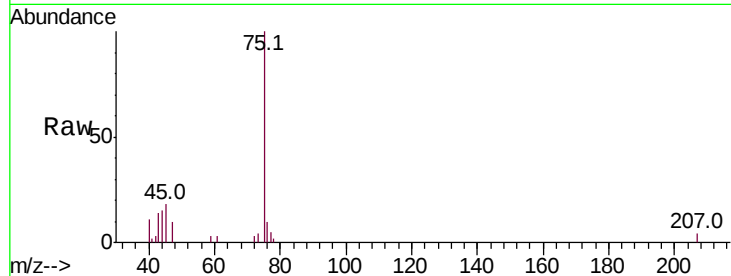
MW-14DL

Tot Ion: 43 Resp: 1039

Ion Ratio Lower Upper

43 100

72 24.1 27.8 41.6#



#29

Tetrahydrofuran

Concen: 0.214 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

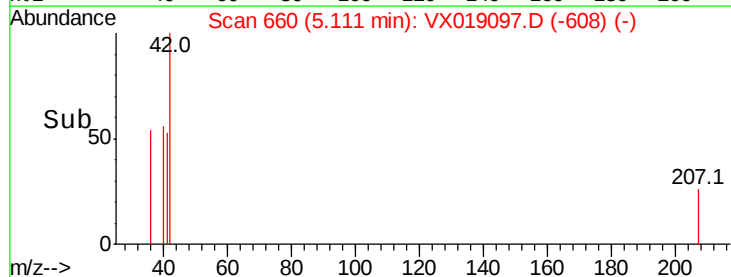
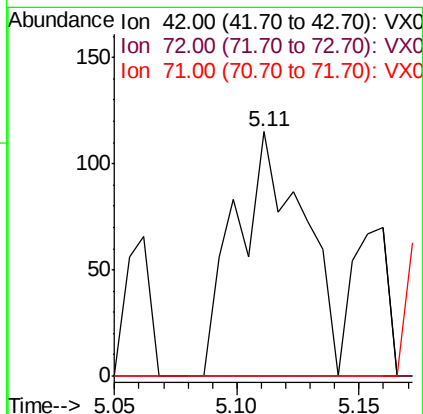
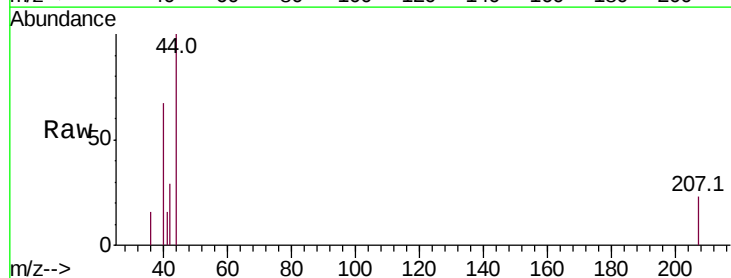
Tgt Ion: 42 Resp: 222

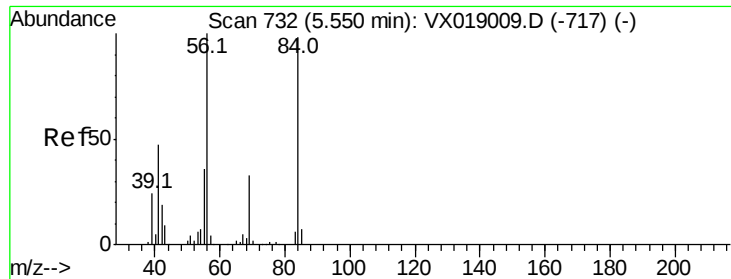
Ion Ratio Lower Upper

42 100

72 0.0 49.1 73.7#

71 0.0 44.2 66.4#

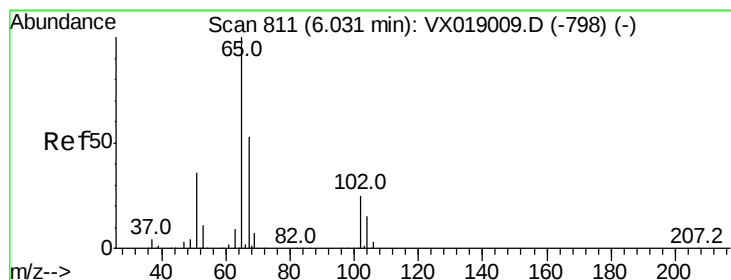
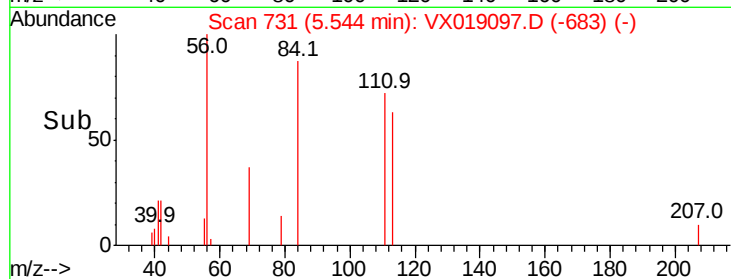
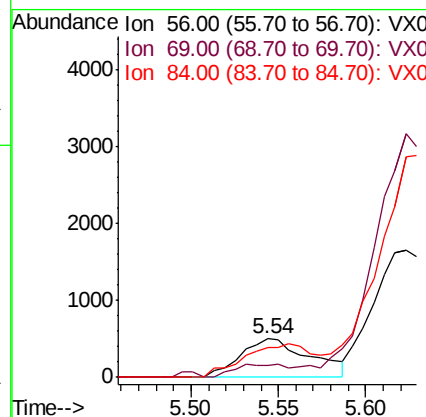
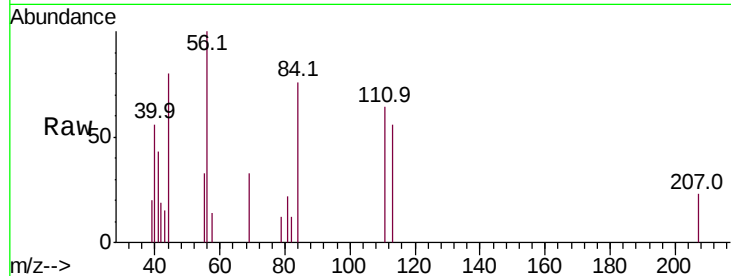




#31
Cyclohexane
Concen: 0.370 ug/l
RT: 5.54 min Scan# 731
Delta R.T. -0.01 min
Lab File: VX019097.D
Acq: 24 Oct 2020 01:30

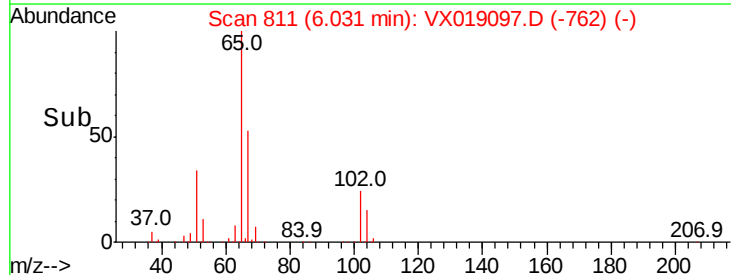
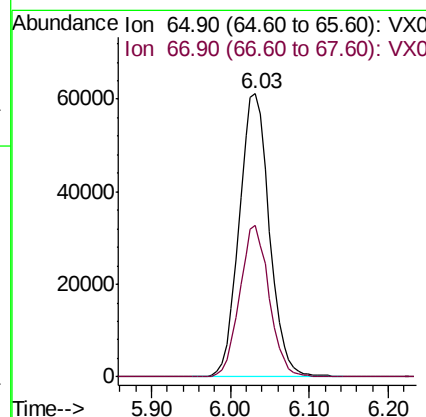
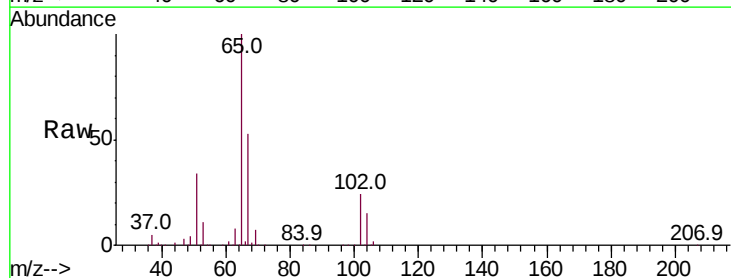
Instrument :
MSVOA_X
ClientSampled :
MW-14DL

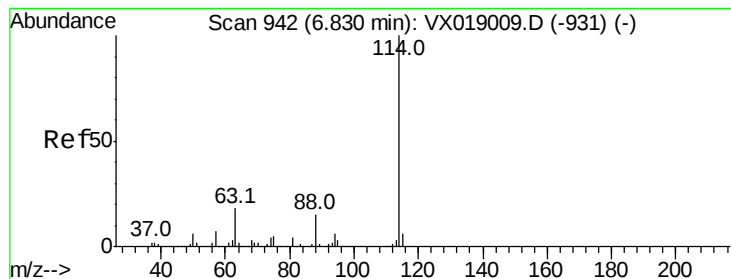
Tot Ion: 56 Resp: 1395
Ion Ratio Lower Upper
56 100
69 18.6 26.2 39.2#
84 76.4 78.3 117.5#



#33
1,2-Dichloroethane-d4
Concen: 50.721 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX019097.D
Acq: 24 Oct 2020 01:30

Tgt Ion: 65 Resp: 163348
Ion Ratio Lower Upper
65 100
67 52.2 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampled :

MW-14DL

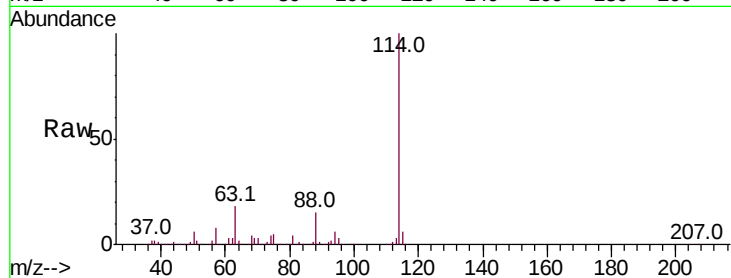
Tot Ion:114 Resp: 465148

Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.8

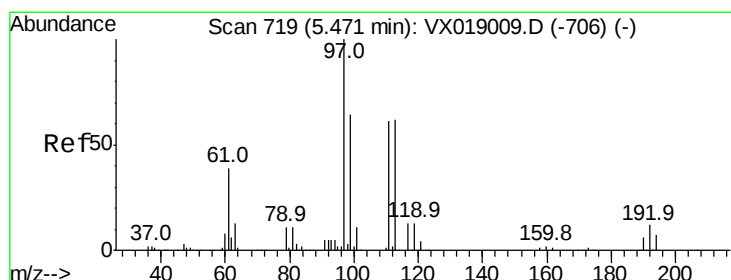
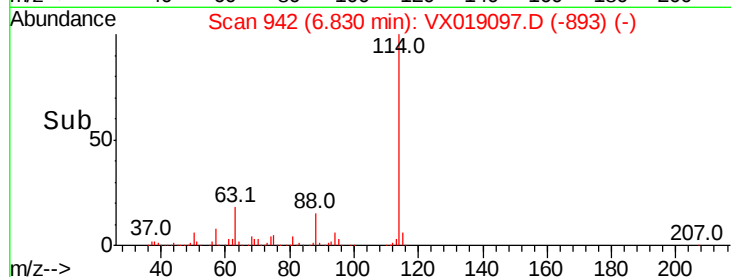
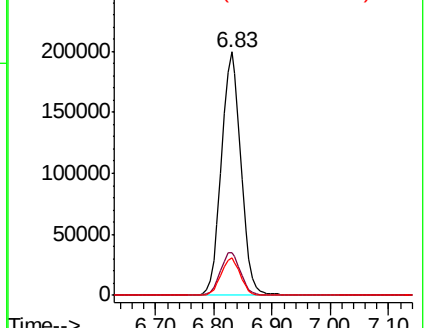
88 15.2 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.681 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

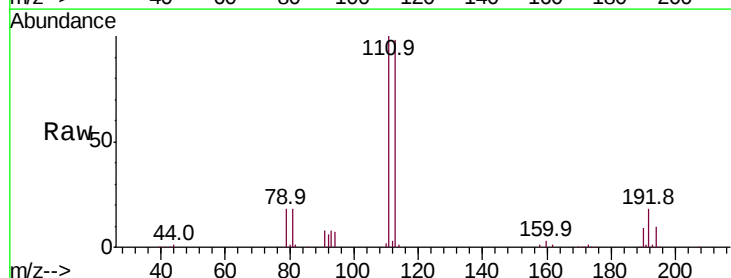
Tgt Ion:113 Resp: 143366

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

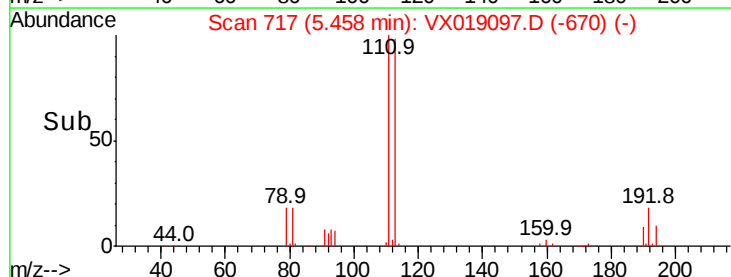
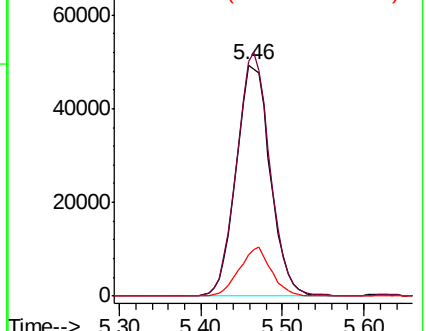
192 19.7 16.3 24.5

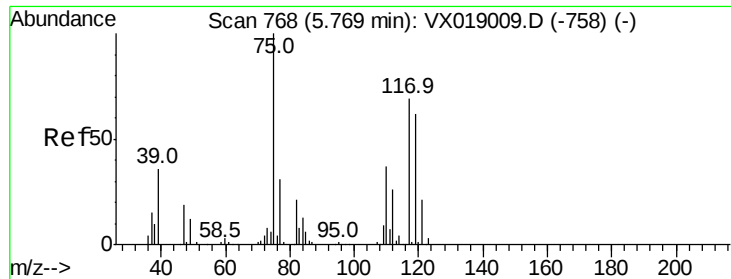


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

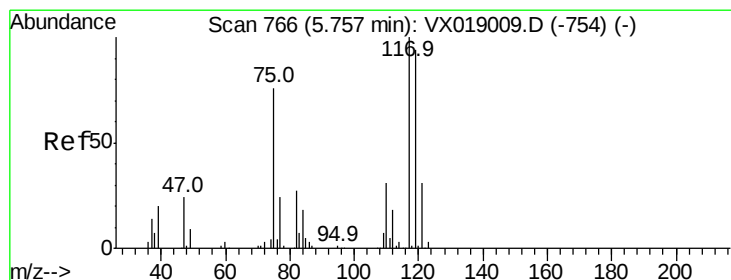
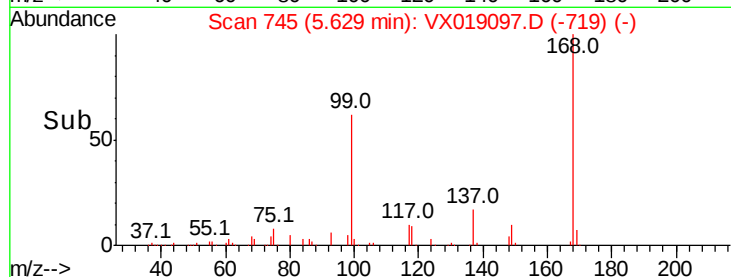
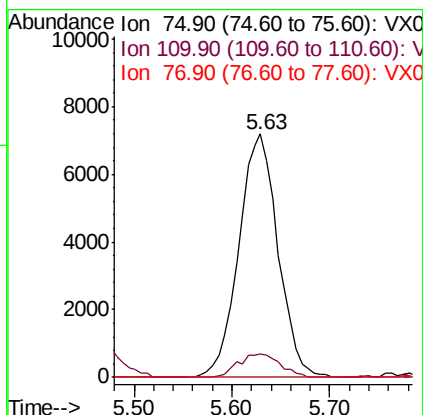
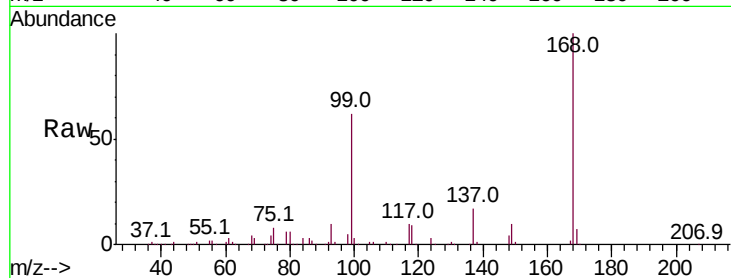




#36
 1,1-Dichloropropene
 Concen: 4.763 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019097.D
 Acq: 24 Oct 2020 01:30

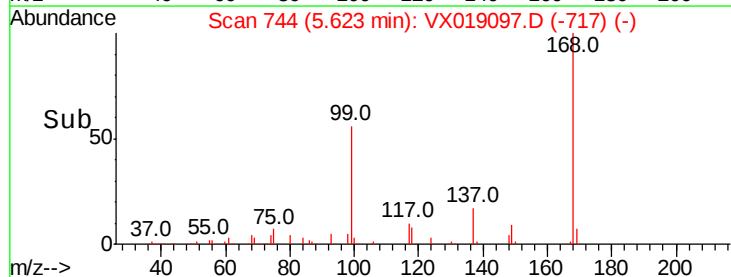
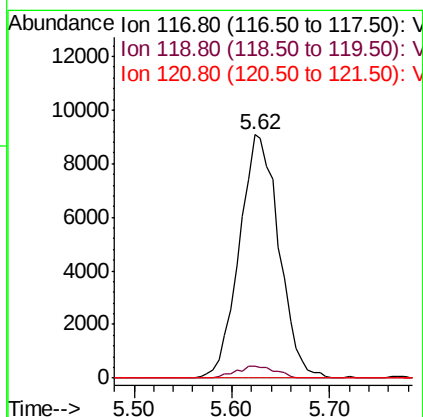
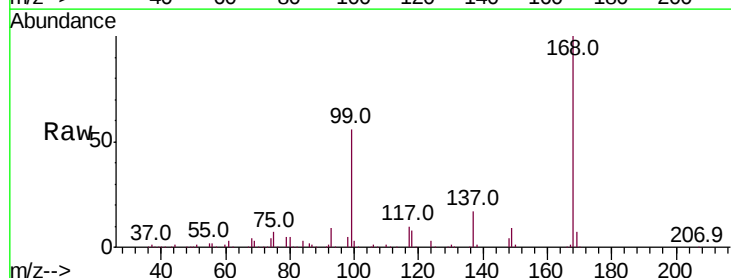
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14DL

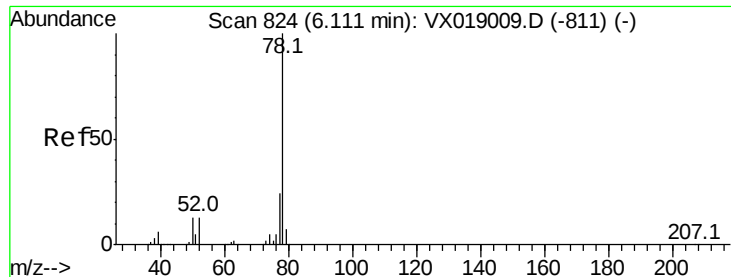
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.4	19.4	58.2#
77	0.0	25.2	37.8#



#38
 Carbon Tetrachloride
 Concen: 5.818 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019097.D
 Acq: 24 Oct 2020 01:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	75.4	113.0#
121	0.0	25.0	37.6#





#40

Benzene

Concen: 8.562 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

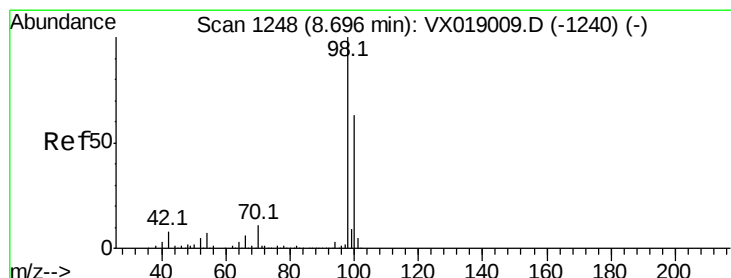
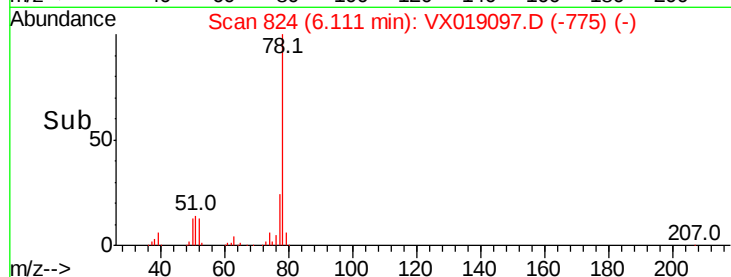
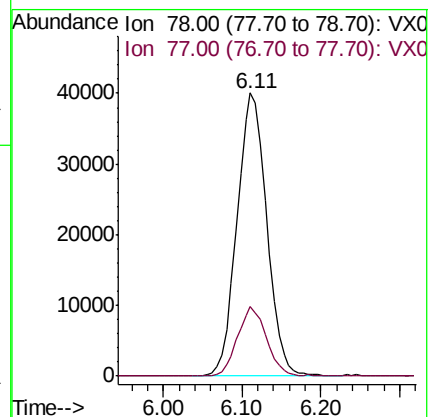
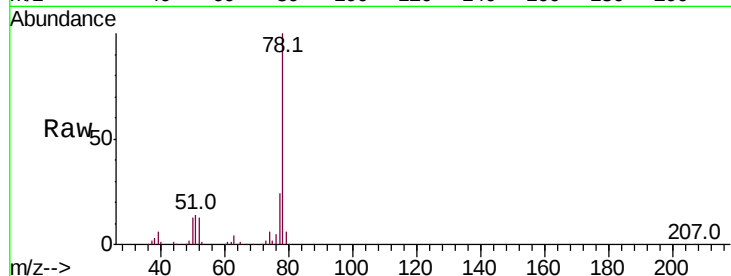
MW-14DL

Tot Ion: 78 Resp: 105245

Ion Ratio Lower Upper

78 100

77 24.4 19.3 28.9



#50

Toluene-d8

Concen: 50.902 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019097.D

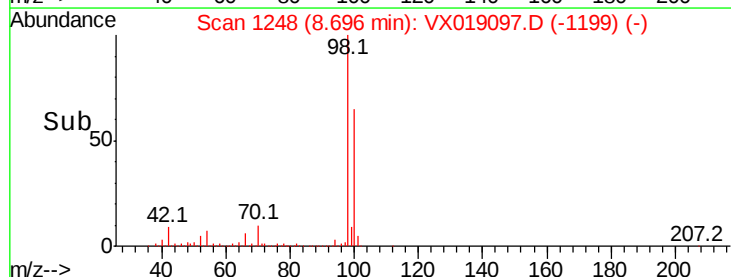
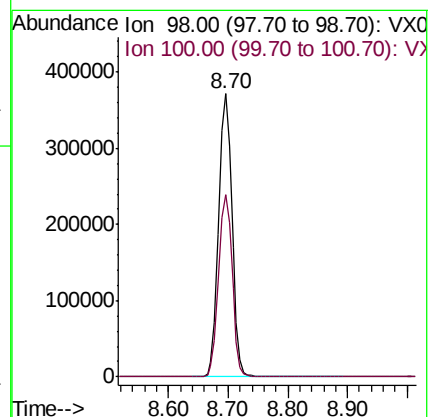
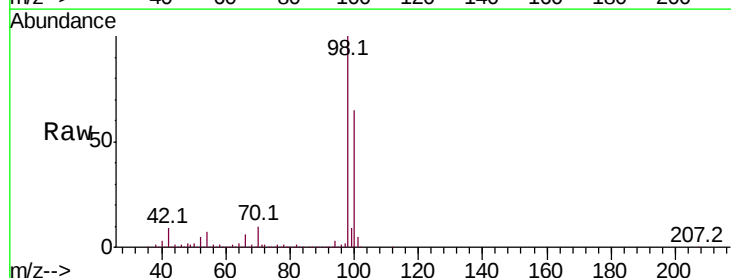
Acq: 24 Oct 2020 01:30

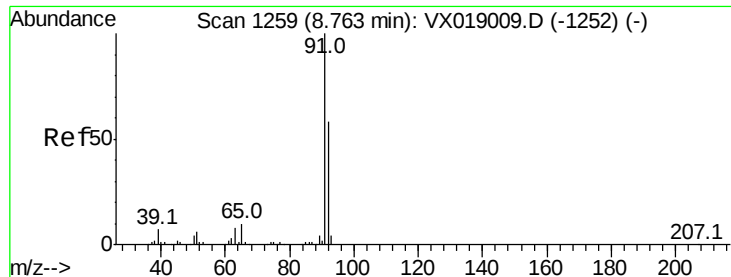
Tgt Ion: 98 Resp: 572042

Ion Ratio Lower Upper

98 100

100 65.8 52.1 78.1





#52

Toluene

Concen: 0.526 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampled :

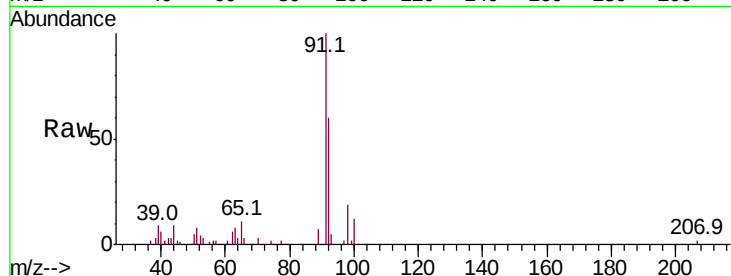
MW-14DL

Tot Ion: 92 Resp: 4270

Ion Ratio Lower Upper

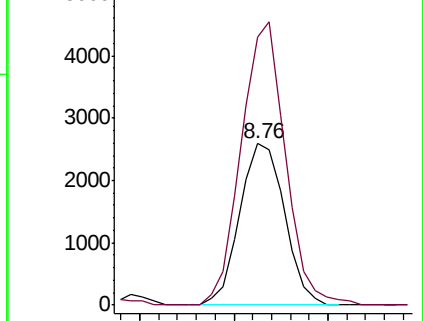
92 100

91 173.1 138.6 208.0

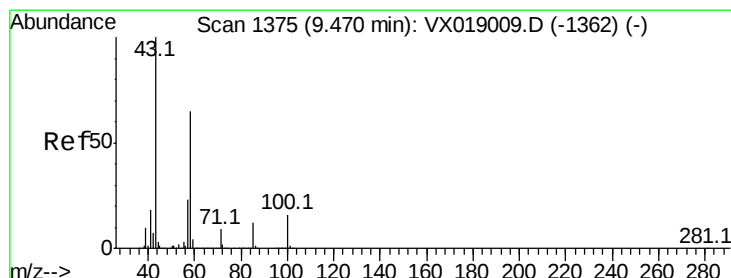
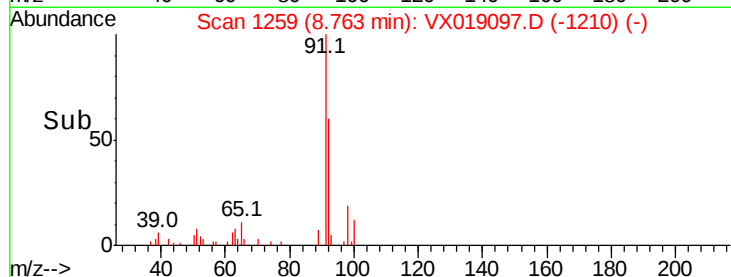


Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



Time-->



#59

2-Hexanone

Concen: 0.252 ug/l

RT: 9.49 min Scan# 1379

Delta R.T. 0.02 min

Lab File: VX019097.D

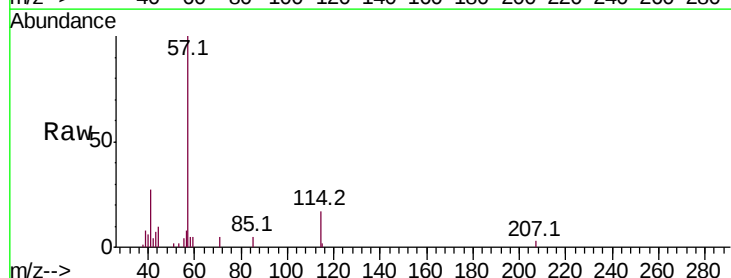
Acq: 24 Oct 2020 01:30

Tgt Ion: 43 Resp: 668

Ion Ratio Lower Upper

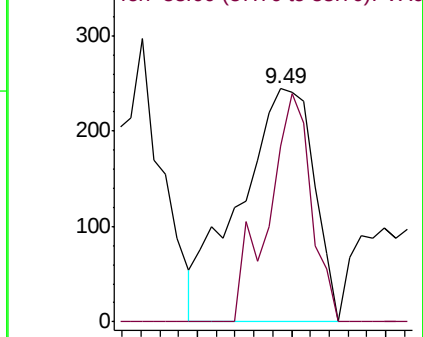
43 100

58 56.7 32.8 98.4

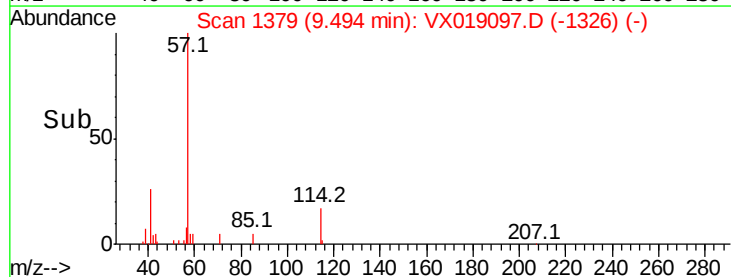


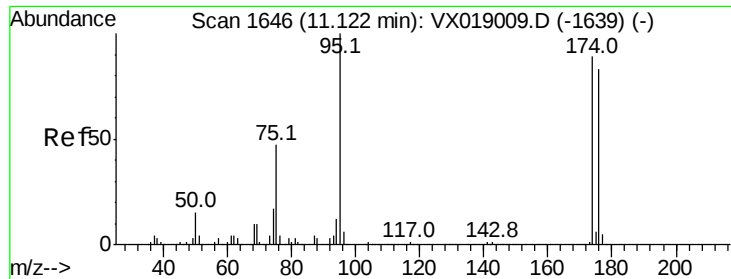
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#62

4-Bromofluorobenzene

Concen: 50.952 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

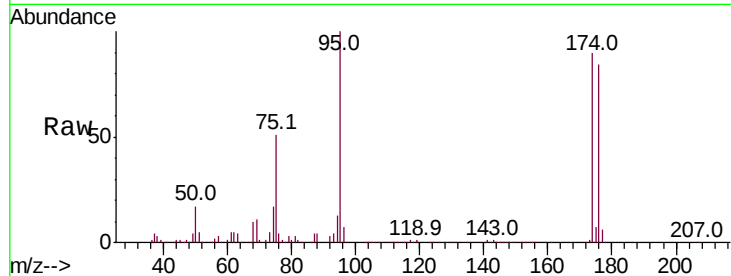
Tot Ion: 95 Resp: 203678

Ion Ratio Lower Upper

95 100

174 85.0 0.0 167.6

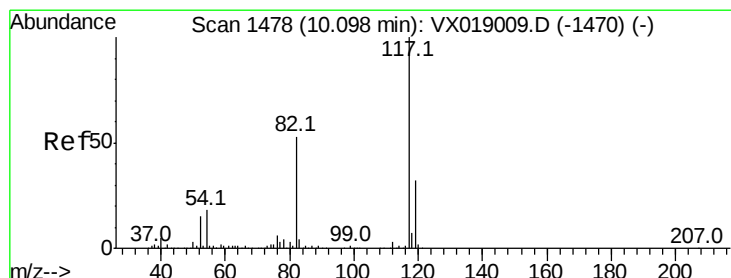
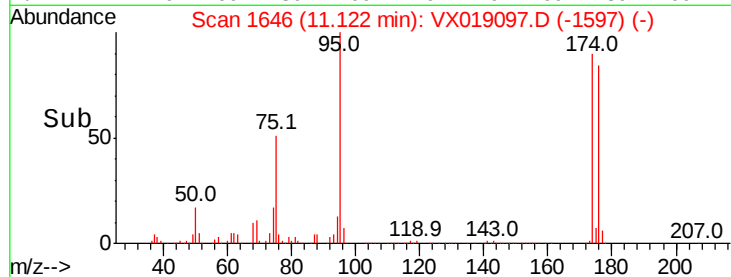
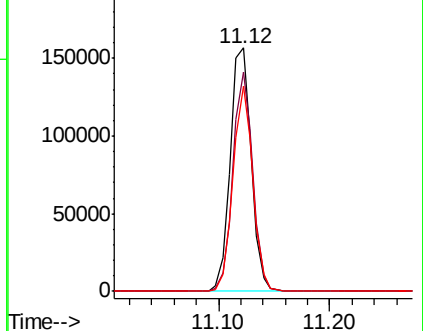
176 79.9 0.0 165.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

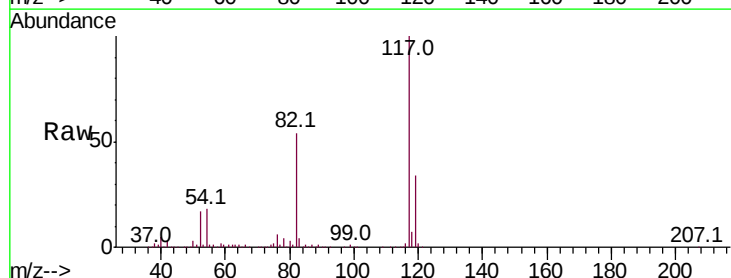
Tgt Ion: 117 Resp: 438625

Ion Ratio Lower Upper

117 100

82 53.9 42.4 63.6

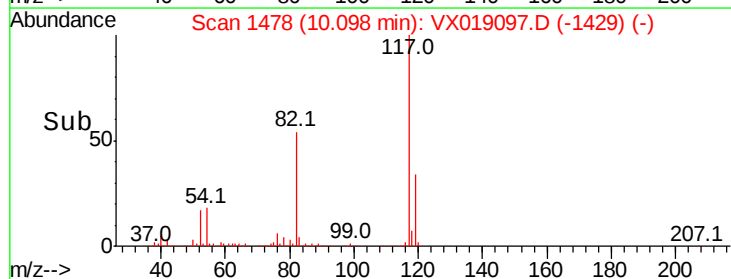
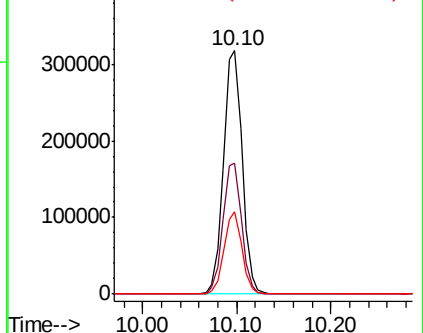
119 34.0 25.6 38.4

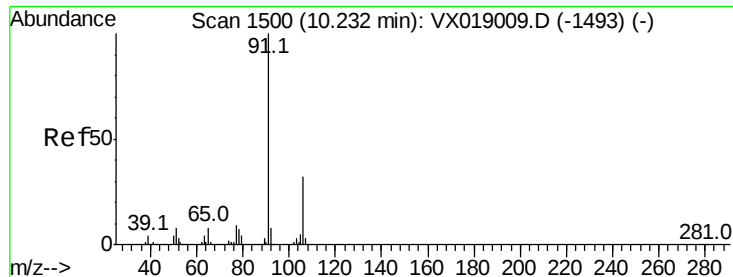


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 2.307 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampled :

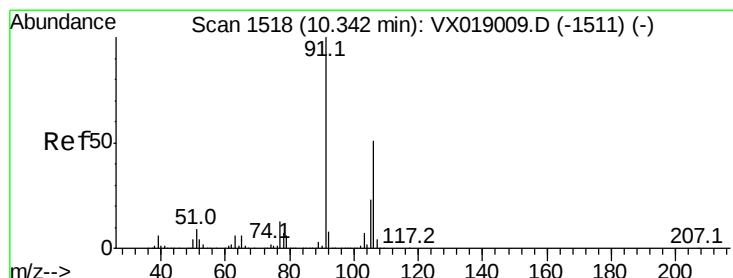
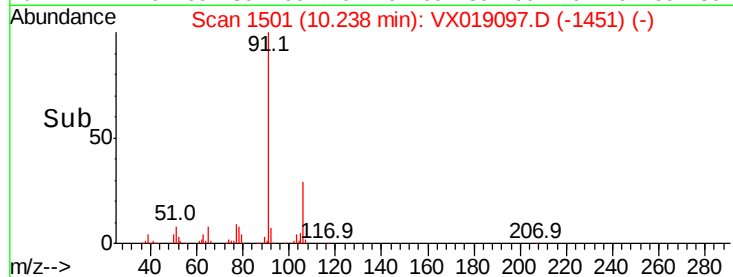
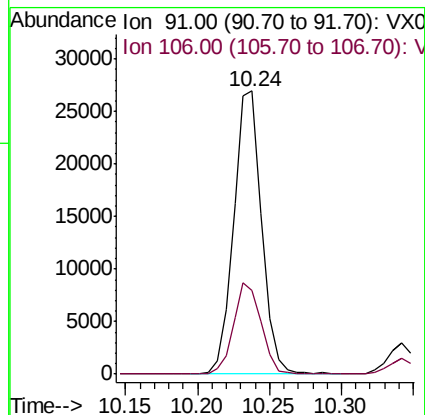
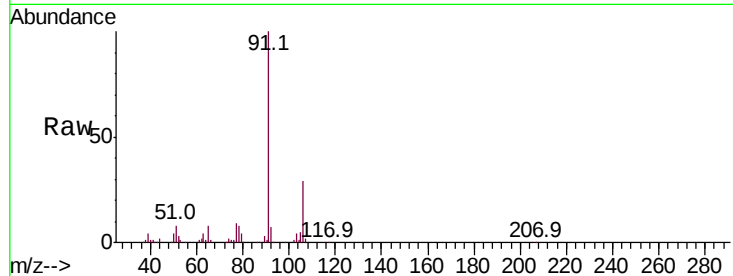
MW-14DL

Tot Ion: 91 Resp: 36580

Ion Ratio Lower Upper

91 100

106 29.5 25.3 37.9



#68

m/p-Xylenes

Concen: 0.299 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX019097.D

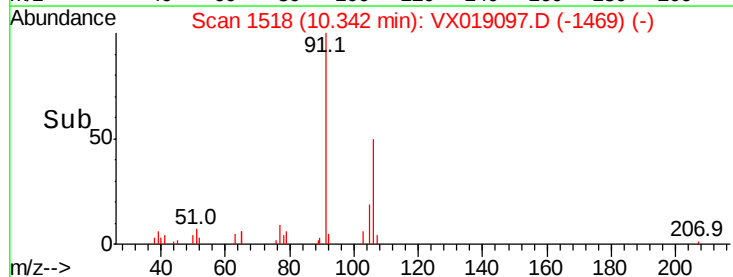
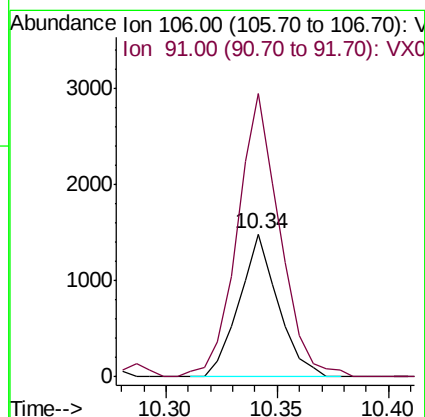
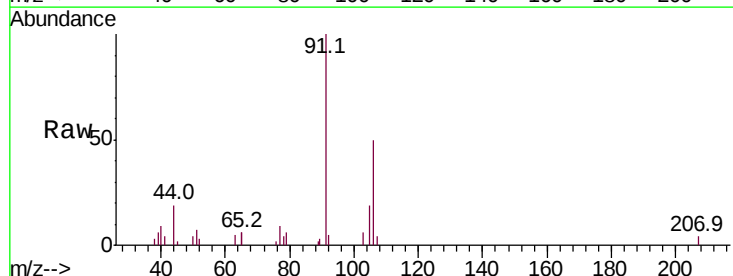
Acq: 24 Oct 2020 01:30

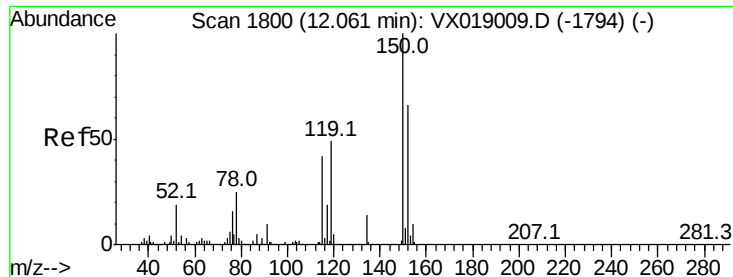
Tgt Ion: 106 Resp: 1818

Ion Ratio Lower Upper

106 100

91 215.1 156.9 235.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

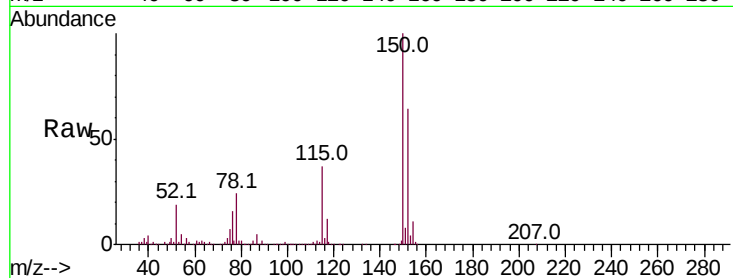
Tot Ion:152 Resp: 226637

Ion Ratio Lower Upper

152 100

115 57.2 40.8 122.5

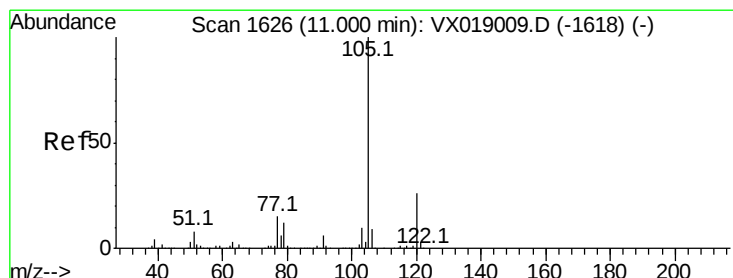
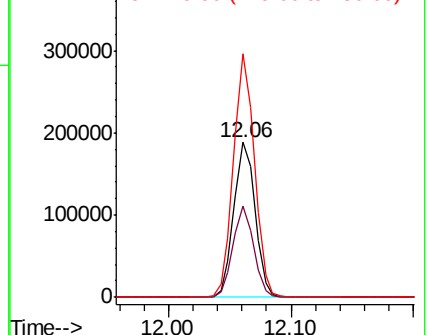
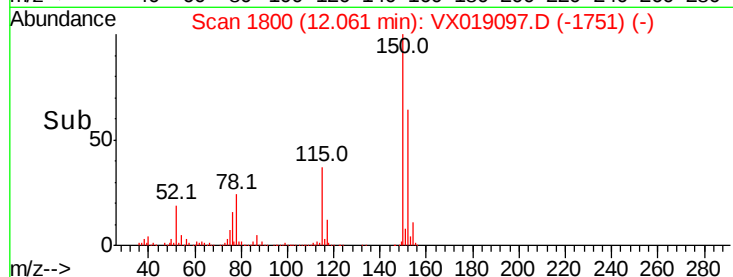
150 153.9 0.0 345.6



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: 0.856 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019097.D

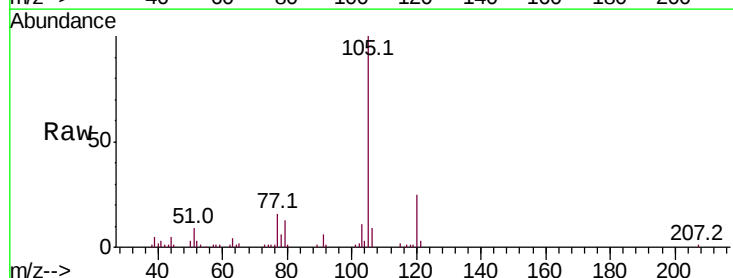
Acq: 24 Oct 2020 01:30

Tgt Ion:105 Resp: 13963

Ion Ratio Lower Upper

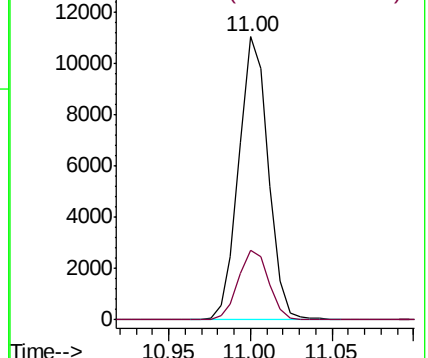
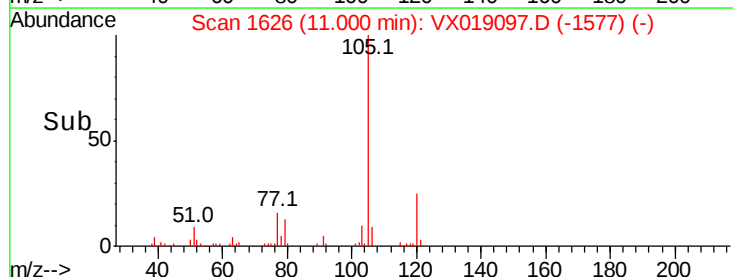
105 100

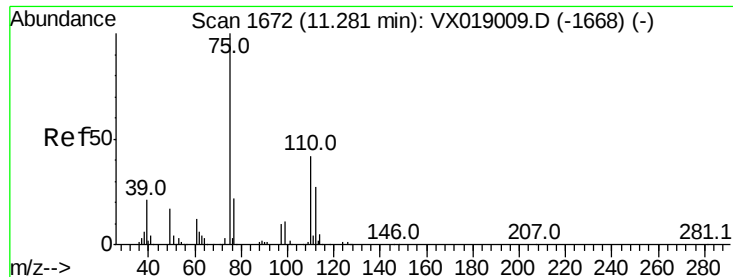
120 25.4 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 22.675 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

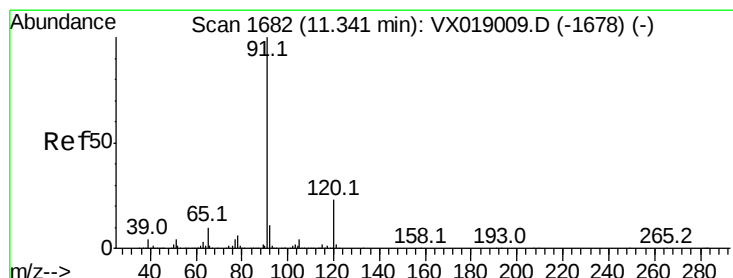
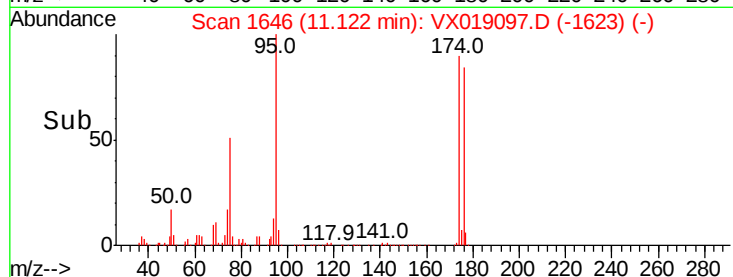
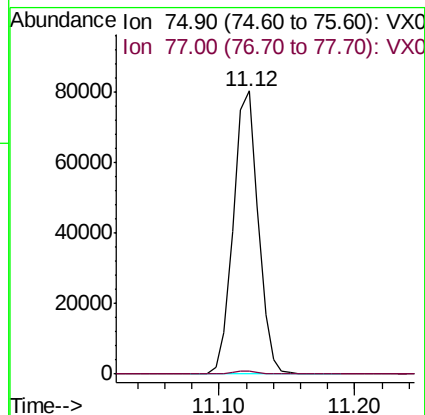
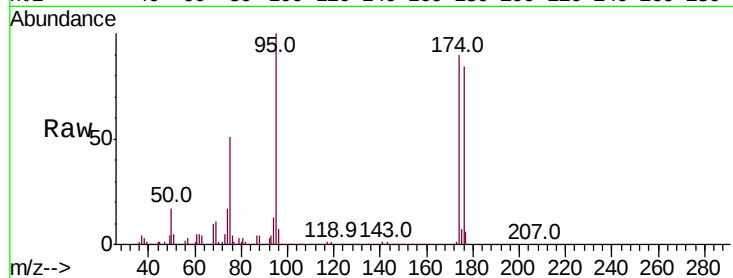
MW-14DL

Tot Ion: 75 Resp: 102714

Ion Ratio Lower Upper

75 100

77 1.1 20.7 62.1#



#78

n-propylbenzene

Concen: 0.586 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019097.D

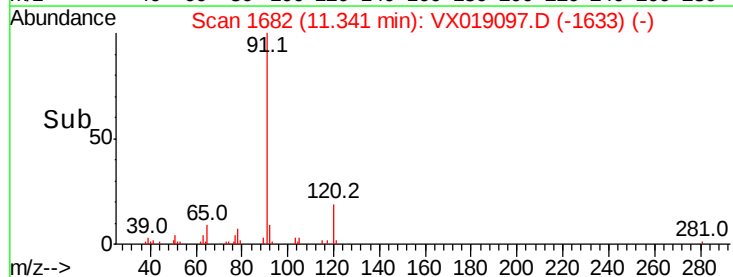
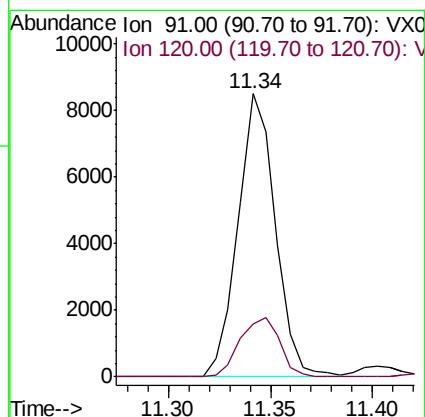
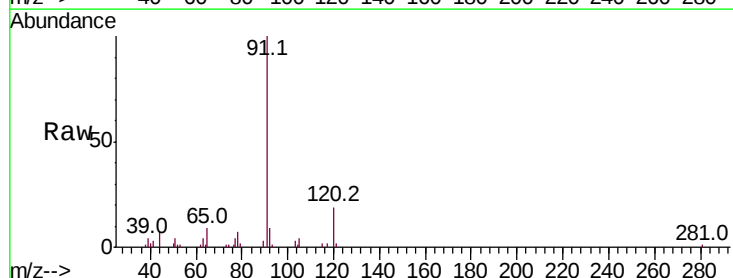
Acq: 24 Oct 2020 01:30

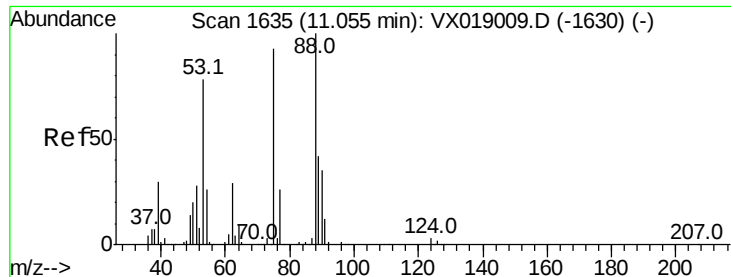
Tgt Ion: 91 Resp: 10821

Ion Ratio Lower Upper

91 100

120 22.2 12.1 36.3





#81

trans-1,4-Dichloro-2-butene

Concen: 57.771 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019097.D

Acq: 24 Oct 2020 01:30

Instrument :

MSVOA_X

ClientSampleId :

MW-14DL

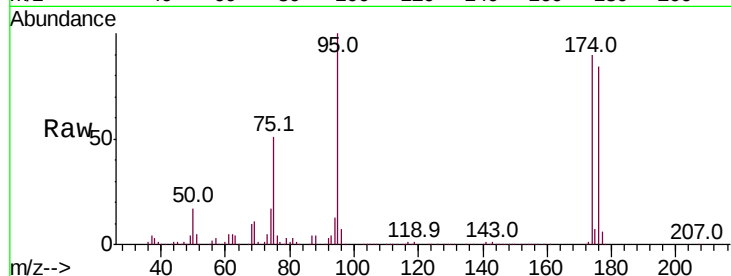
Tot Ion: 75 Resp: 102714

Ion Ratio Lower Upper

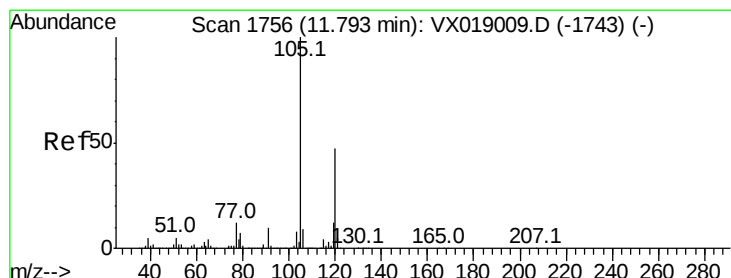
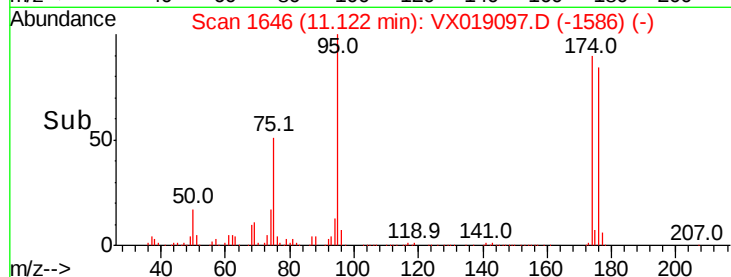
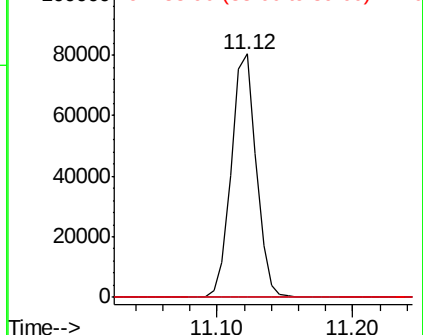
75 100

53 0.0 67.4 101.2#

89 0.0 37.2 55.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.223 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019097.D

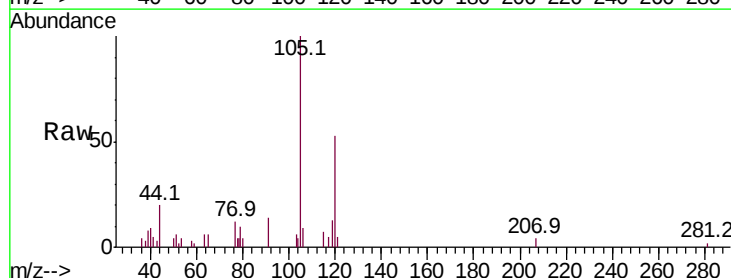
Acq: 24 Oct 2020 01:30

Tgt Ion: 105 Resp: 3006

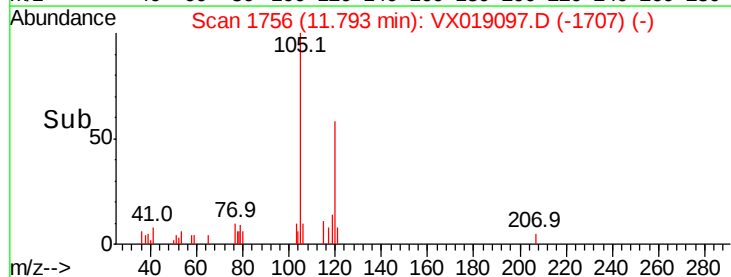
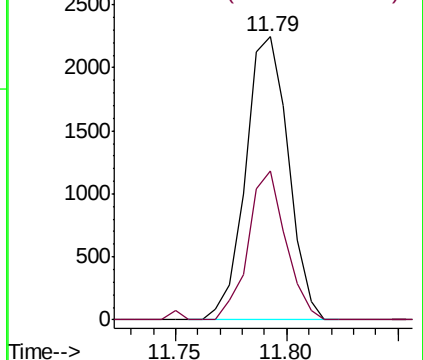
Ion Ratio Lower Upper

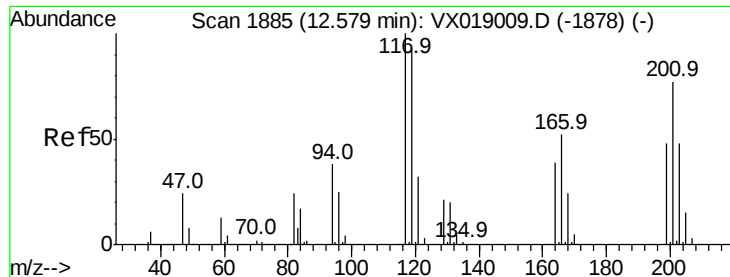
105 100

120 46.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

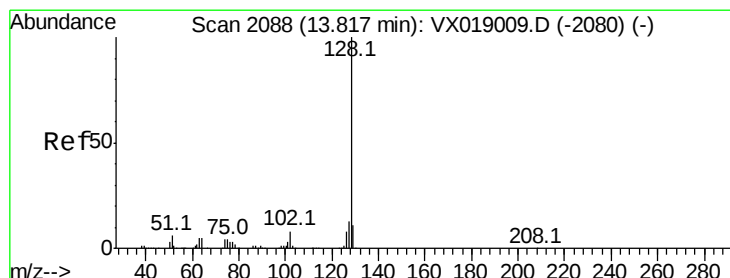
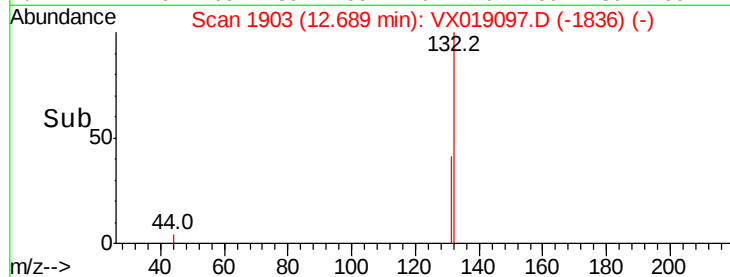
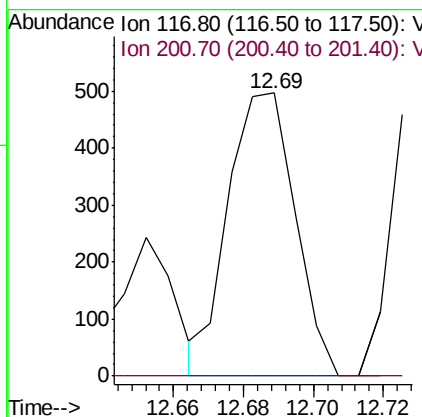
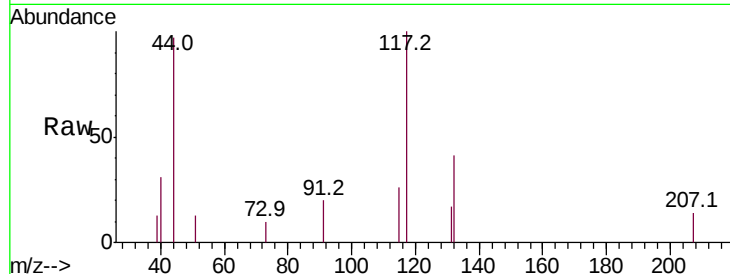




#90
 Hexachloroethane
 Concen: 0.294 ug/l
 RT: 12.69 min Scan# 1903
 Delta R.T. 0.11 min
 Lab File: VX019097.D
 Acq: 24 Oct 2020 01:30

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-14DL

Tot Ion:117 Resp: 660
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.1 111.3#



#95
 Naphthalene
 Concen: 0.713 ug/l
 RT: 13.82 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VX019097.D
 Acq: 24 Oct 2020 01:30

Tgt Ion:128 Resp: 11553
 Ion Ratio Lower Upper
 128 100
 127 12.6 10.5 15.7
 129 10.6 8.7 13.1

