

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091720\
 Data File : VX018469.D
 Acq On : 17 Sep 2020 16:23
 Operator : JC/SP
 Sample : L4014-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Sep 18 06:33:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	570098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	902710	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	864403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	427727	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	381133	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	
35) Dibromofluoromethane	5.47	113	304536	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
50) Toluene-d8	8.70	98	1107468	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.12	95	419986	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	

Target Compounds

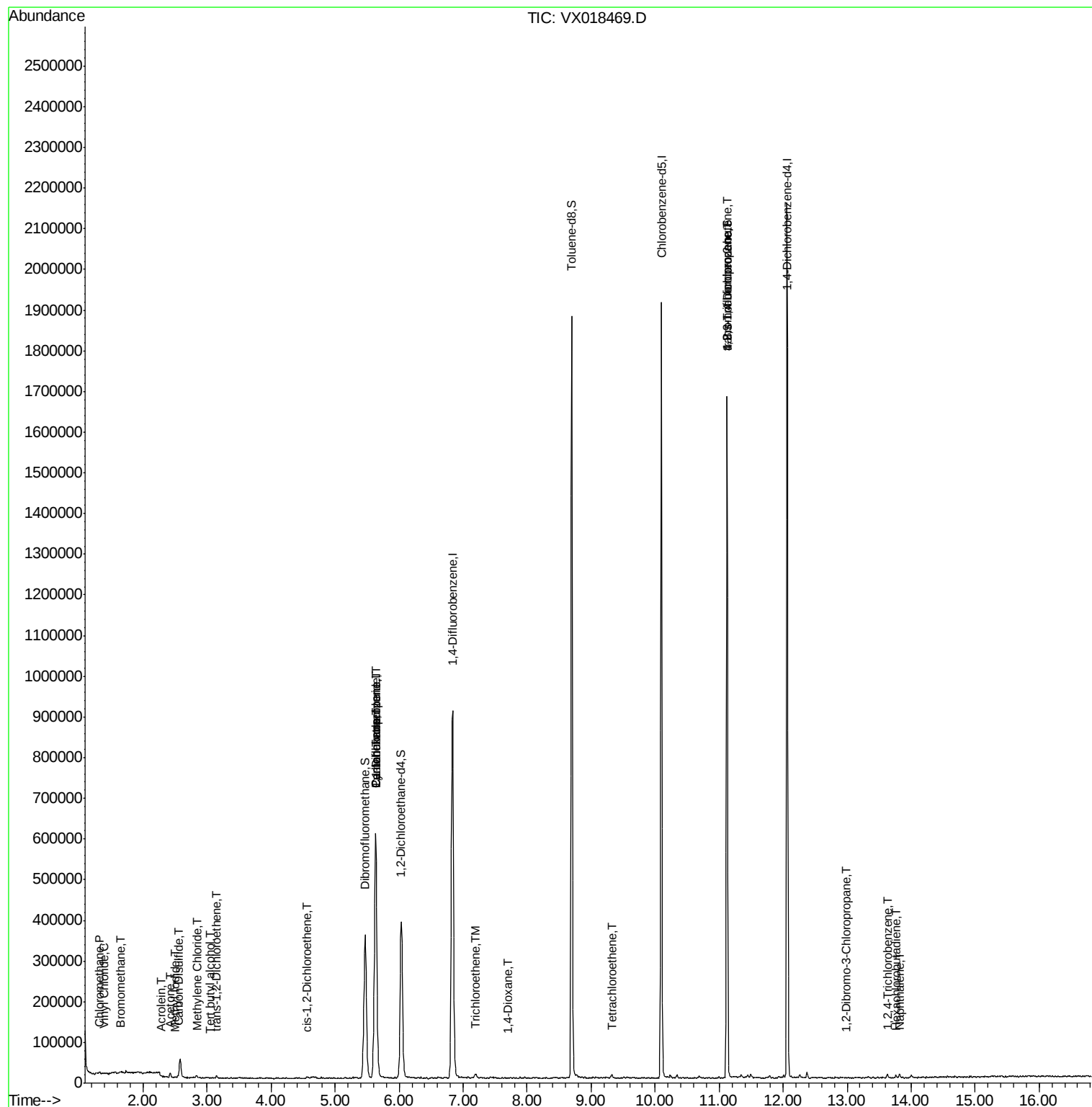
						Qvalue
3) Chloromethane	1.31	50	2905	0.459	ug/l	89
4) Vinyl Chloride	1.39	62	1523	0.227	ug/l #	79
5) Bromomethane	1.64	94	982	0.239	ug/l #	63
10) Methyl Iodide	2.50	142	1393	5.100	ug/l #	64
11) Tert butyl alcohol	3.04	59	450	0.321	ug/l #	1
13) Acrolein	2.28	56	421	0.474	ug/l	85
16) Acetone	2.42	43	10778	3.494	ug/l	99
17) Carbon Disulfide	2.56	76	3544	0.215	ug/l #	82
20) Methylene Chloride	2.83	84	3397	0.499	ug/l #	92
21) trans-1,2-Dichloroethene	3.14	96	1696	0.264	ug/l #	71
27) cis-1,2-Dichloroethene	4.56	96	2723	0.379	ug/l	66
31) Cyclohexane	5.63	56	12984	1.330	ug/l #	16
36) 1,1-Dichloropropene	5.64	75	42757	4.880	ug/l #	52
38) Carbon Tetrachloride	5.63	117	56434	5.816	ug/l #	22
44) Trichloroethene	7.20	130	4266	0.587	ug/l	57
49) 1,4-Dioxane	7.71	88	50	0.400	ug/l #	1
64) Tetrachloroethene	9.32	164	1600	0.235	ug/l #	84
76) 1,2,3-Trichloropropane	11.12	75	210004	23.364	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	210004	59.870	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	634	0.276	ug/l #	18
93) 1,2,4-Trichlorobenzene	13.63	180	1990	0.216	ug/l	86
94) Hexachlorobutadiene	13.77	225	1141	0.294	ug/l	71
95) Naphthalene	13.82	128	5612	0.201	ug/l #	95

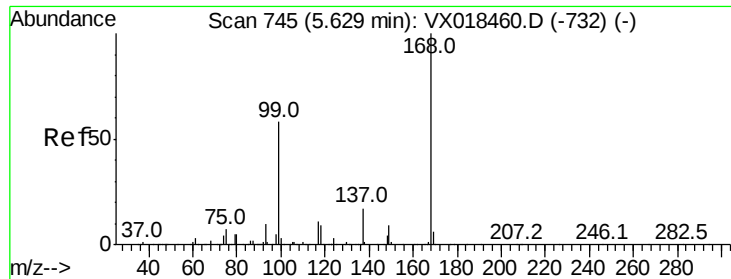
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MW-2

Quant Time: Sep 18 06:33:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 17 12:17:36 2020
Response via : Initial Calibration



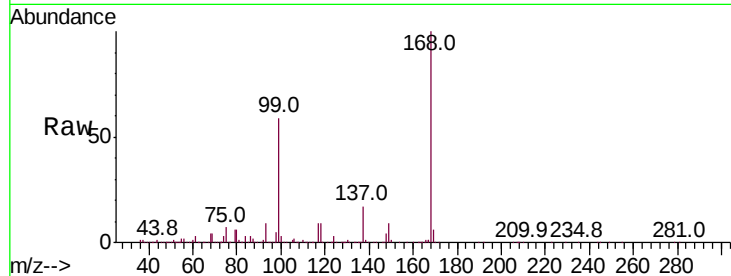


#1

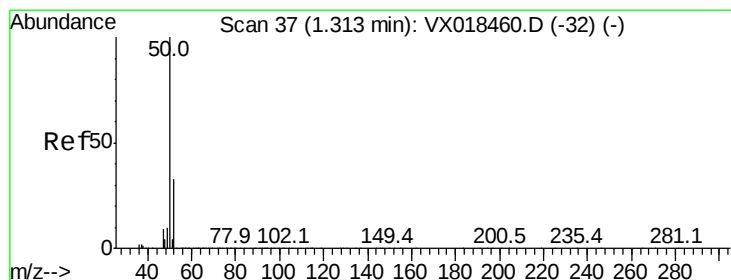
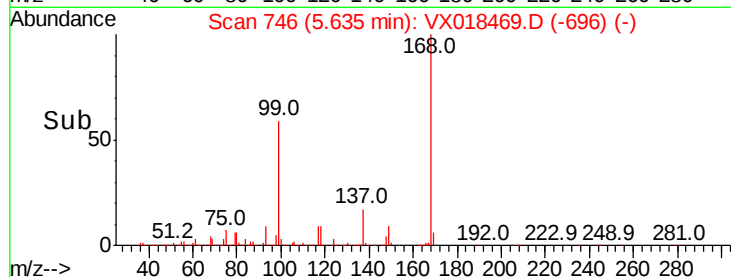
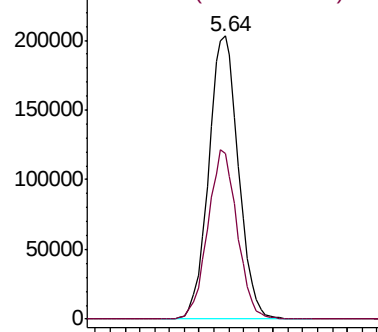
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VX018469.D
 Acq: 17 Sep 2020 16:23

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Tot Ion:168 Resp: 570098
 Ion Ratio Lower Upper
 168 100
 99 58.6 46.5 69.7



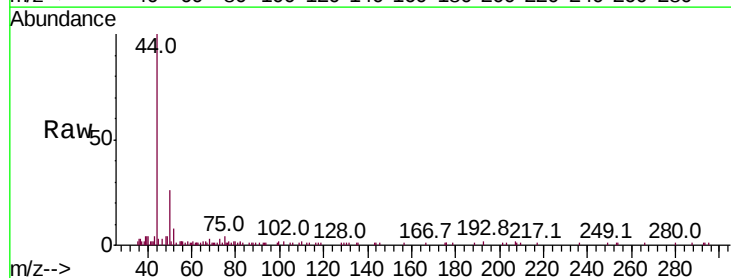
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



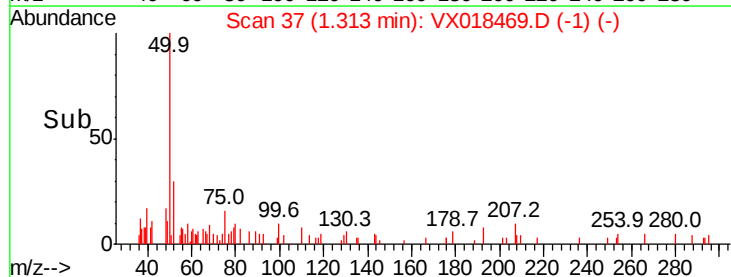
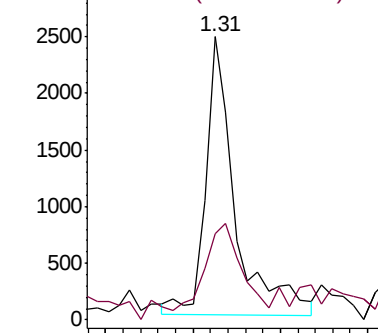
#3

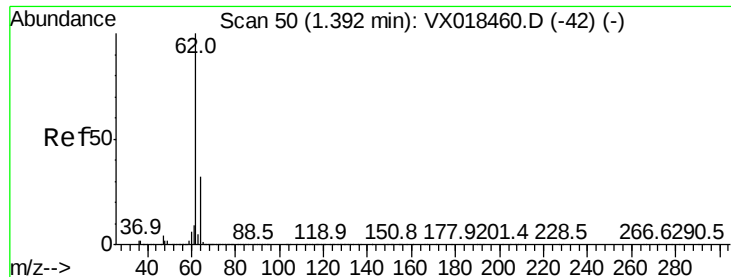
Chloromethane
 Concen: 0.459 ug/l
 RT: 1.31 min Scan# 37
 Delta R.T. -0.00 min
 Lab File: VX018469.D
 Acq: 17 Sep 2020 16:23

Tgt Ion: 50 Resp: 2905
 Ion Ratio Lower Upper
 50 100
 52 27.2 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.227 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

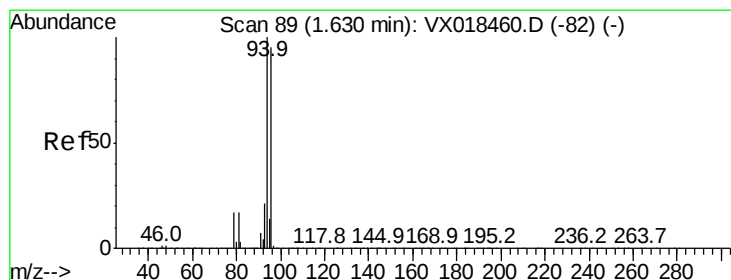
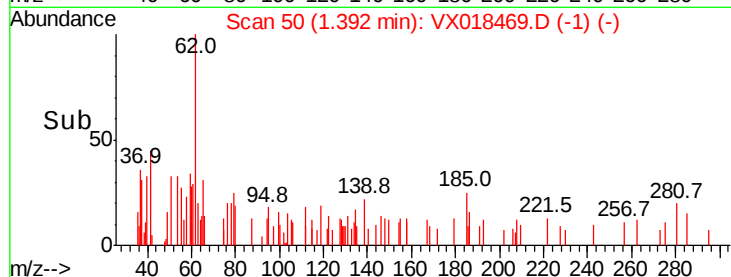
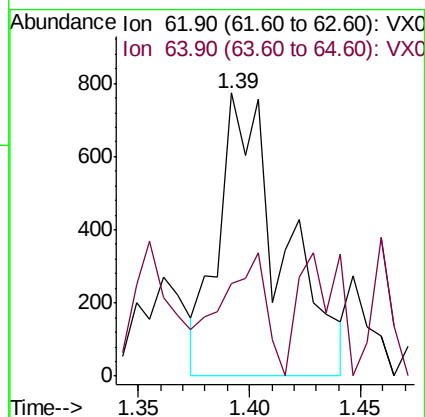
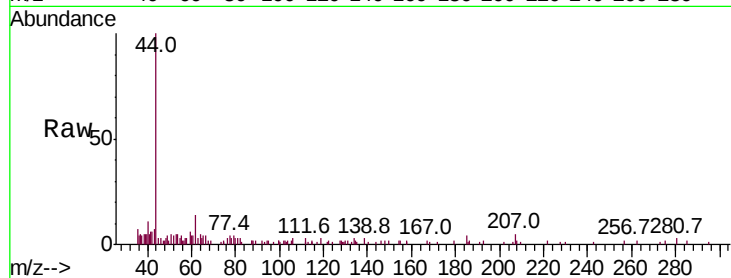
MW-2

Tot Ion: 62 Resp: 1523

Ion Ratio Lower Upper

62 100

64 20.1 25.7 38.5#



#5

Bromomethane

Concen: 0.239 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX018469.D

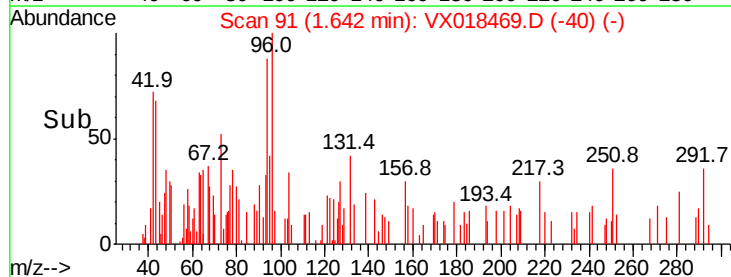
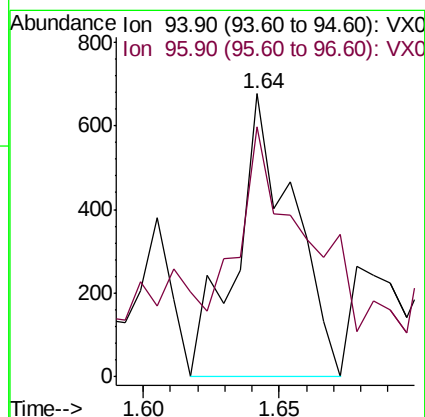
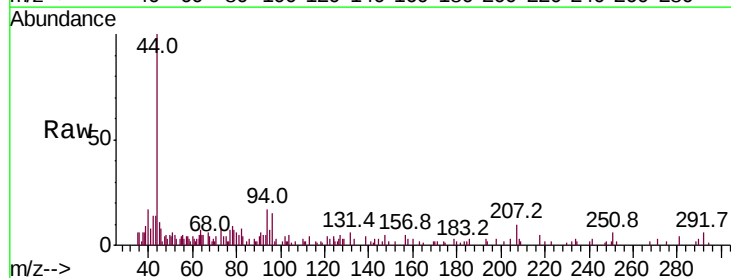
Acq: 17 Sep 2020 16:23

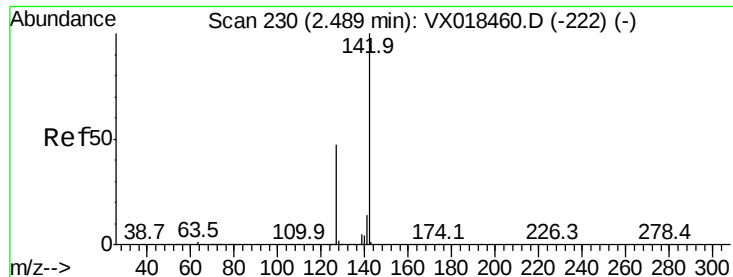
Tgt Ion: 94 Resp: 982

Ion Ratio Lower Upper

94 100

96 58.3 75.5 113.3#

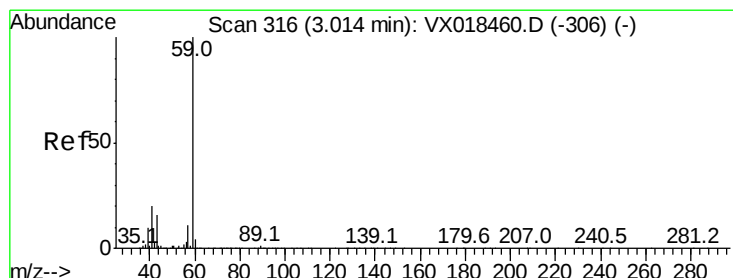
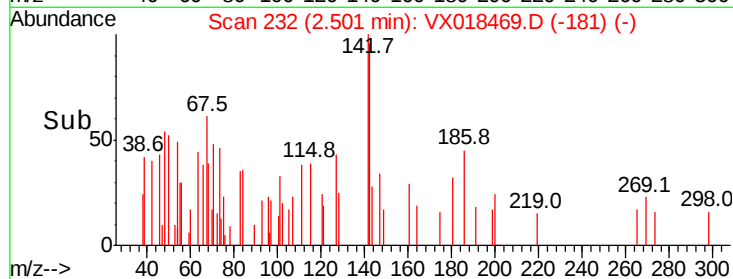
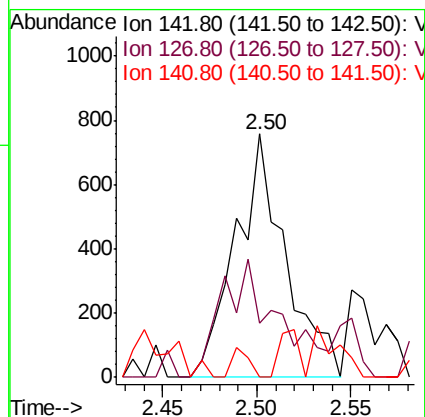
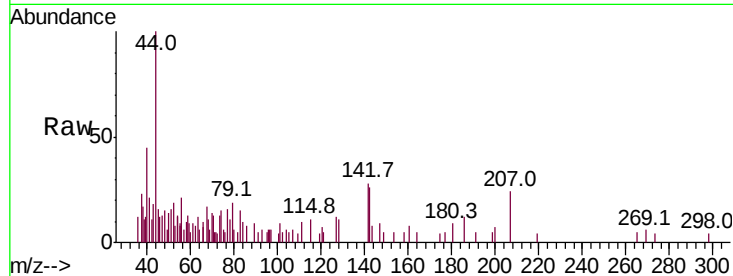




#10
Methyl Iodide
Concen: 5.100 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018469.D
Acq: 17 Sep 2020 16:23

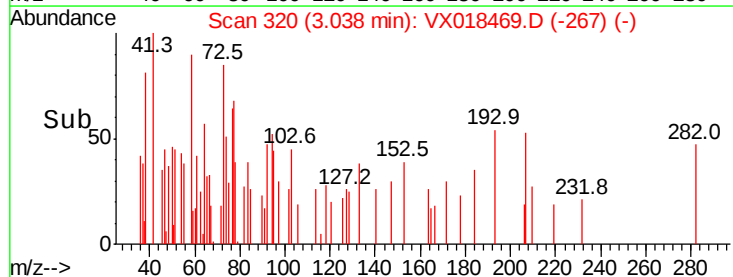
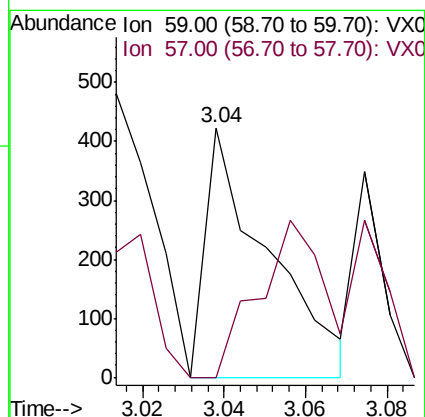
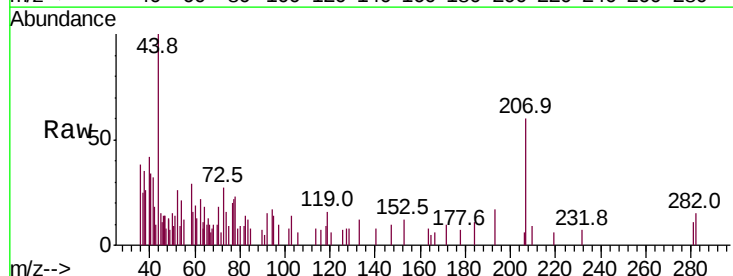
Instrument :
MSVOA_X
ClientSampled :
MW-2

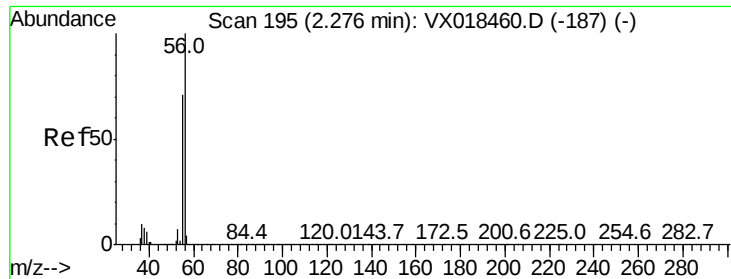
Tot Ion:142 Resp: 1393
Ion Ratio Lower Upper
142 100
127 19.7 36.0 54.0#
141 4.0 11.9 17.9#



#11
Tert butyl alcohol
Concen: 0.321 ug/l
RT: 3.04 min Scan# 320
Delta R.T. 0.02 min
Lab File: VX018469.D
Acq: 17 Sep 2020 16:23

Tgt Ion: 59 Resp: 450
Ion Ratio Lower Upper
59 100
57 65.8 8.2 12.4#

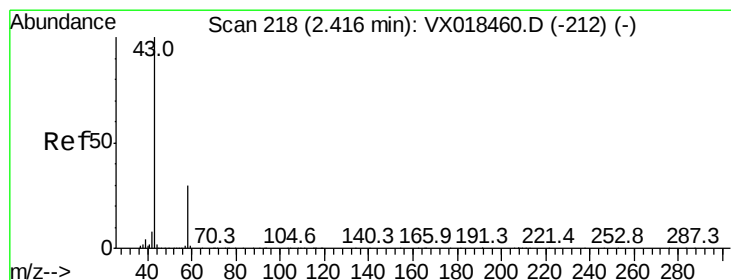
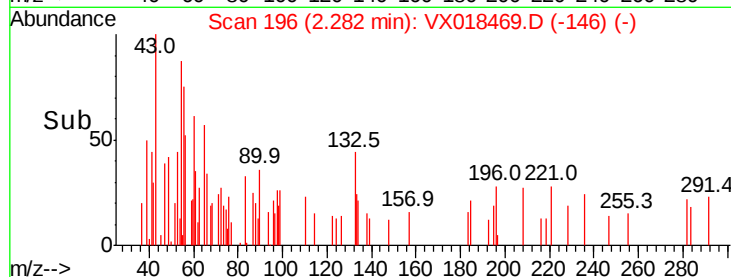
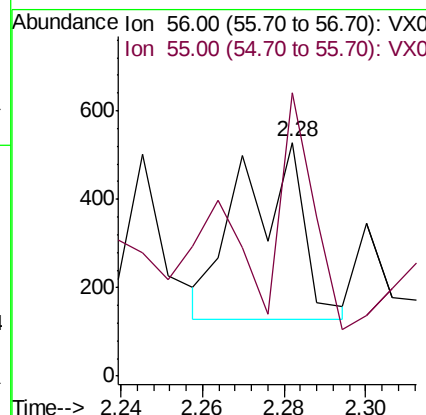
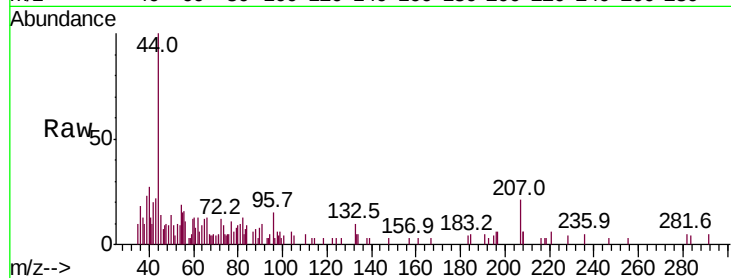




#13
Acrolein
Concen: 0.474 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX018469.D
Acq: 17 Sep 2020 16:23

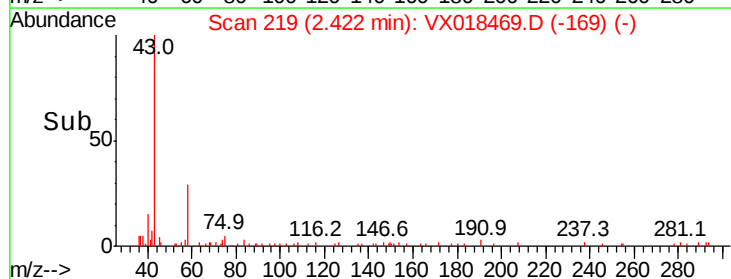
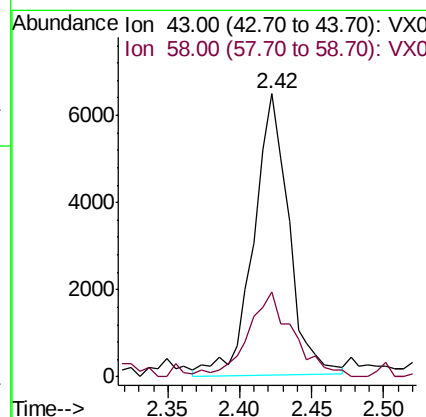
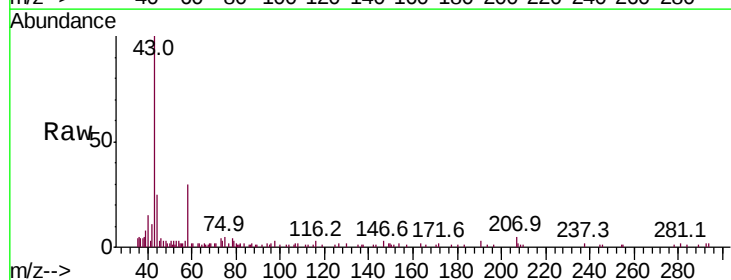
Instrument :
MSVOA_X
ClientSampled :
MW-2

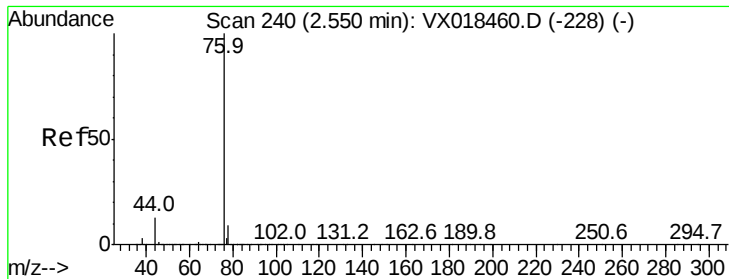
Tot Ion: 56 Resp: 421
Ion Ratio Lower Upper
56 100
55 60.3 58.2 87.4



#16
Acetone
Concen: 3.494 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.01 min
Lab File: VX018469.D
Acq: 17 Sep 2020 16:23

Tgt Ion: 43 Resp: 10778
Ion Ratio Lower Upper
43 100
58 29.7 24.0 36.0





#17

Carbon Disulfide

Concen: 0.215 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

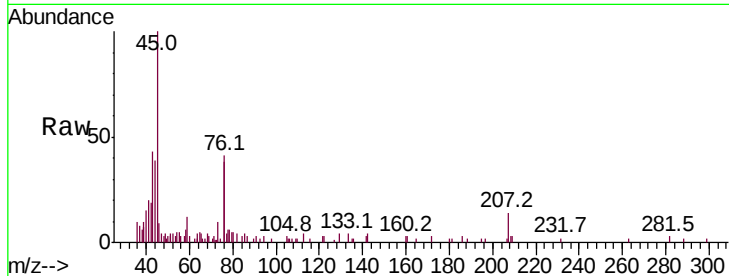
MW-2

Tot Ion: 76 Resp: 3544

Ion Ratio Lower Upper

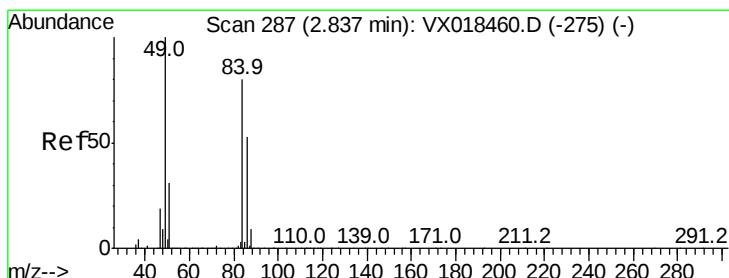
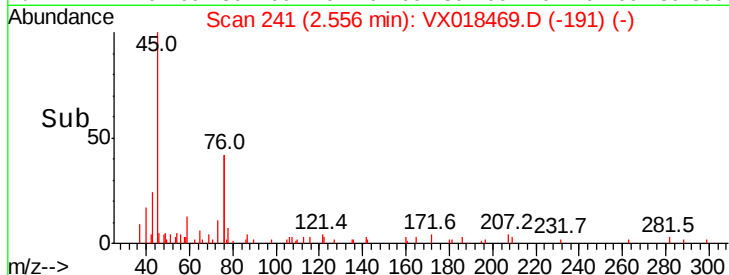
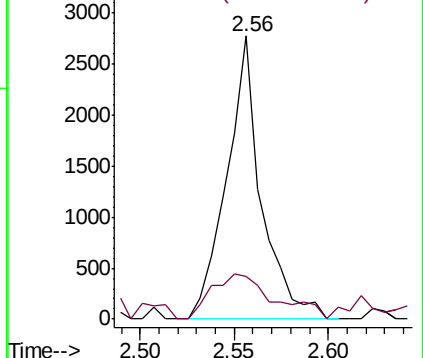
76 100

78 15.2 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.499 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Tgt Ion: 84 Resp: 3397

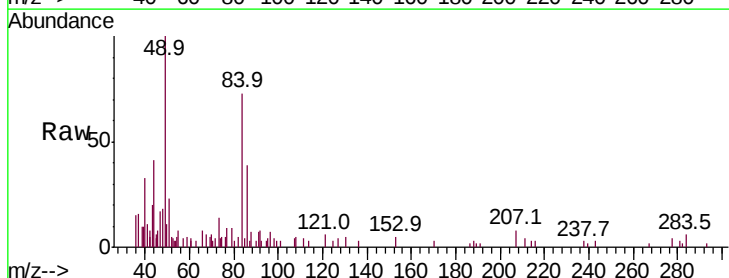
Ion Ratio Lower Upper

84 100

49 127.2 100.6 151.0

51 31.2 30.9 46.3

86 52.8 53.5 80.3#

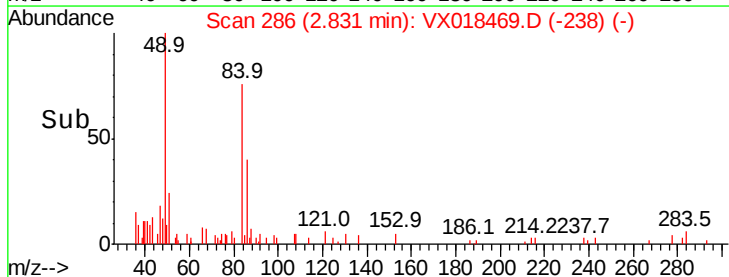
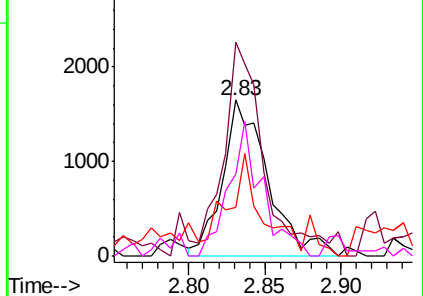


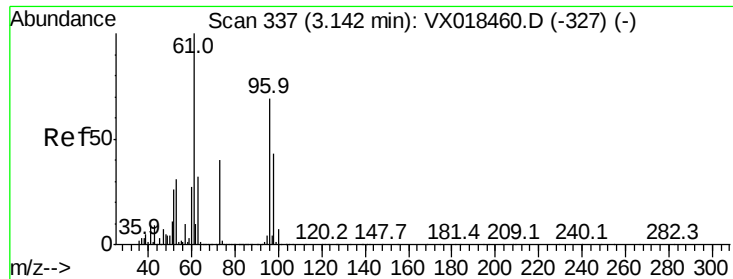
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.264 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

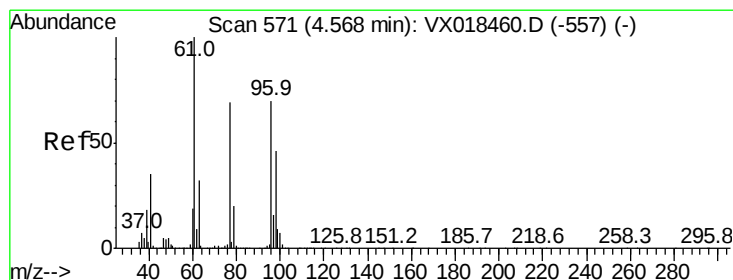
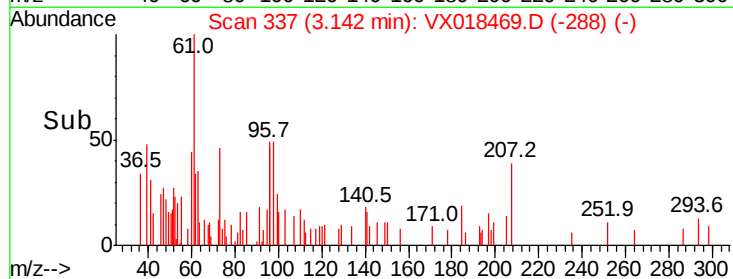
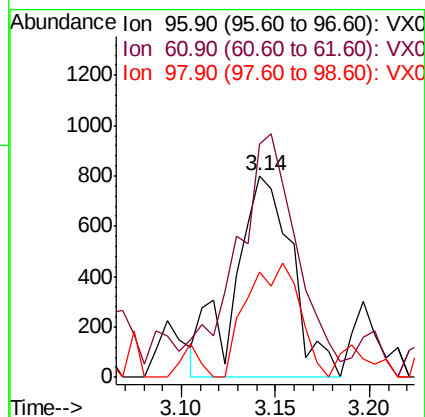
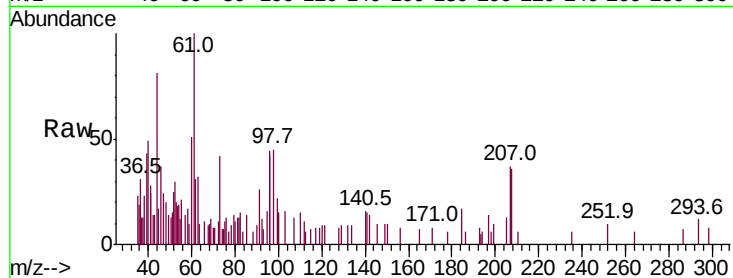
Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

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Tot Ion: 96 Resp: 1696

Ion	Ratio	Lower	Upper
96	100		
61	107.9	115.6	173.4#
98	40.1	50.2	75.4#



#27

cis-1,2-Dichloroethene

Concen: 0.379 ug/l

RT: 4.56 min Scan# 569

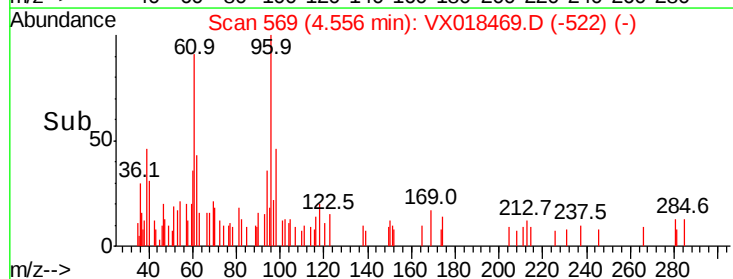
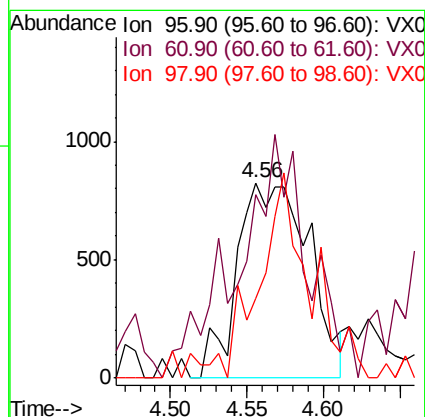
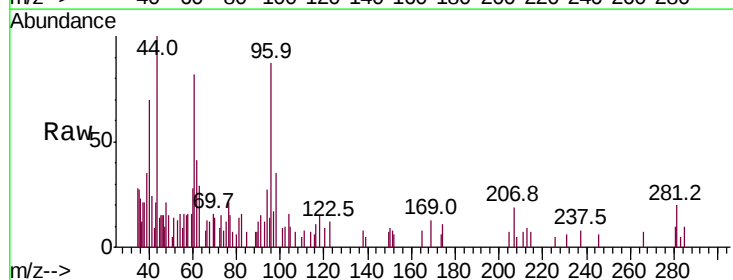
Delta R.T. -0.01 min

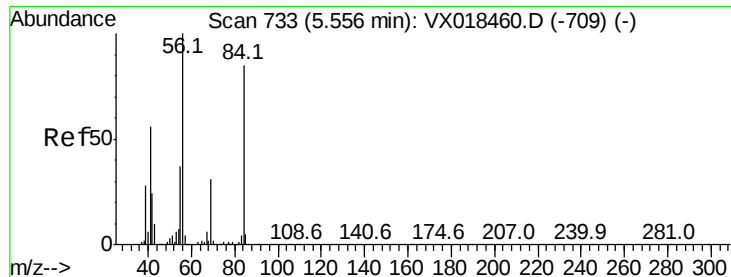
Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Tgt Ion: 96 Resp: 2723

Ion	Ratio	Lower	Upper
96	100		
61	94.8	0.0	300.0
98	73.7	0.0	130.4





#31

Cyclohexane

Concen: 1.330 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.07 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2

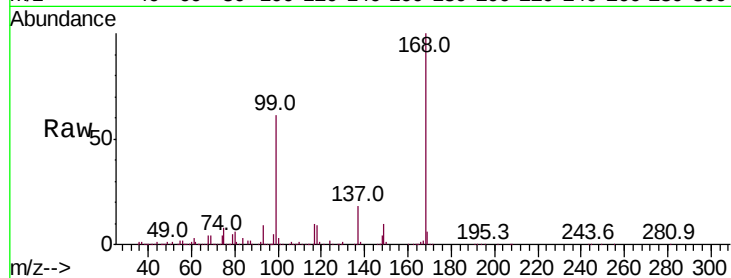
Tot Ion: 56 Resp: 12984

Ion Ratio Lower Upper

56 100

69 163.4 24.8 37.2#

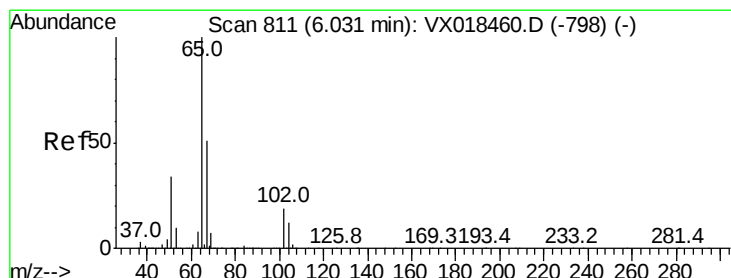
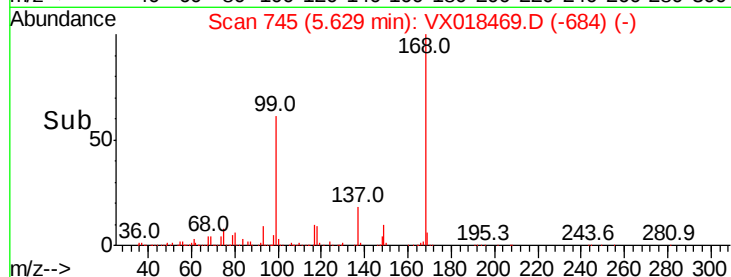
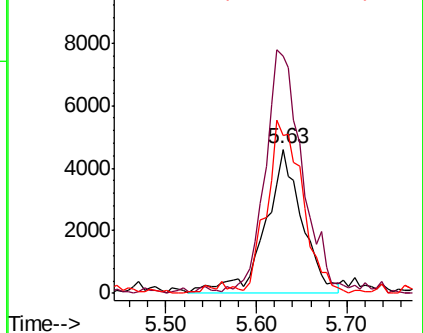
84 108.2 67.6 101.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.258 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018469.D

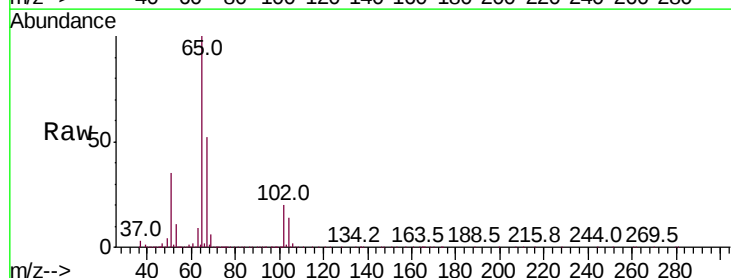
Acq: 17 Sep 2020 16:23

Tgt Ion: 65 Resp: 381133

Ion Ratio Lower Upper

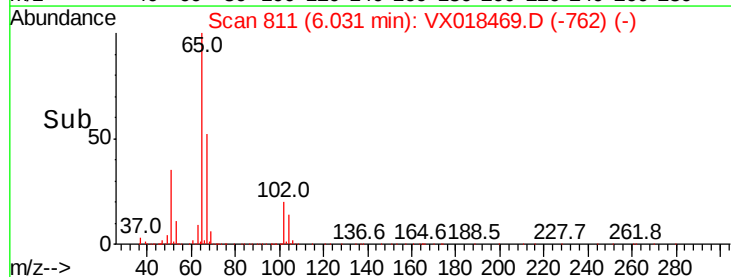
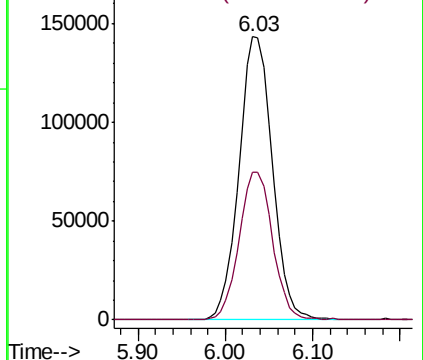
65 100

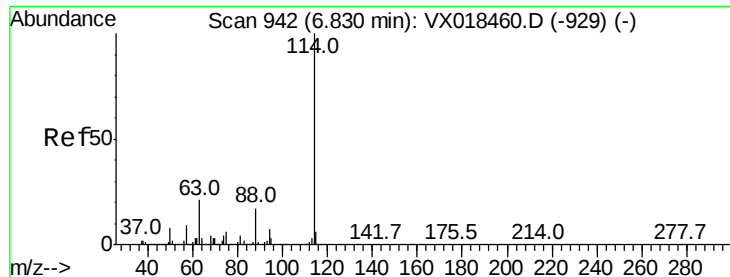
67 52.1 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

MW-2

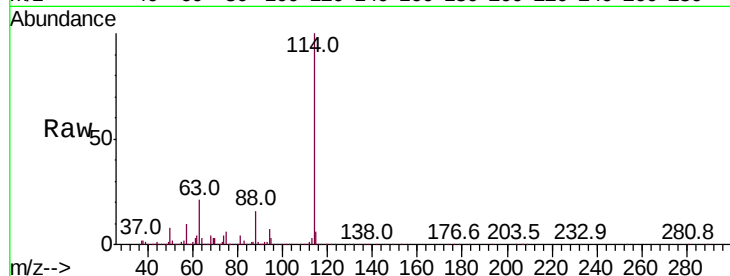
Tot Ion:114 Resp: 902710

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.8

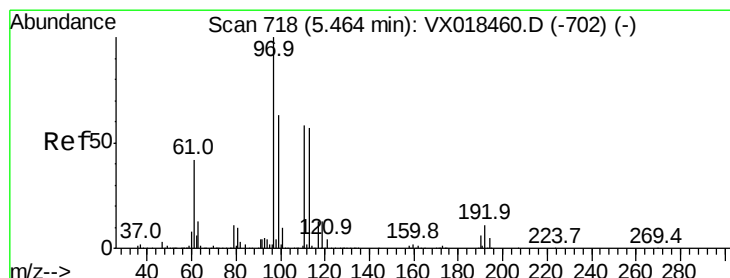
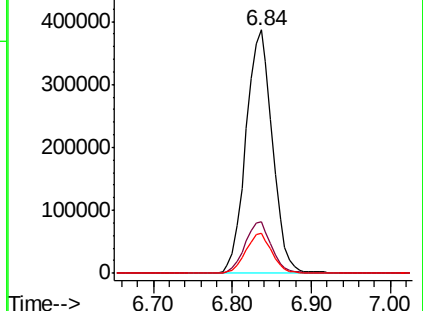
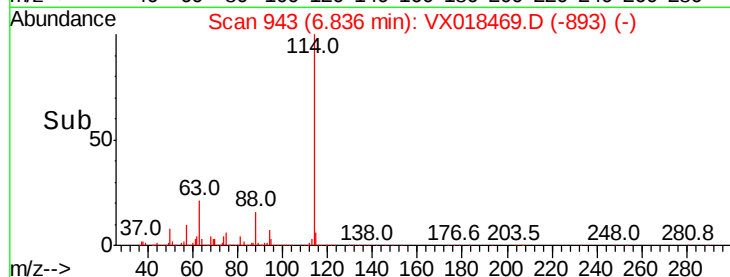
88 16.4 0.0 33.6



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: 48.799 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

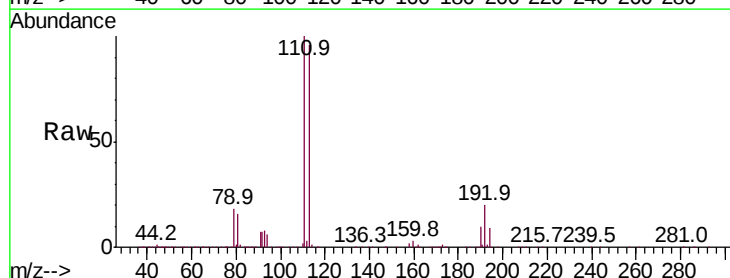
Tgt Ion:113 Resp: 304536

Ion Ratio Lower Upper

113 100

111 103.9 81.4 122.2

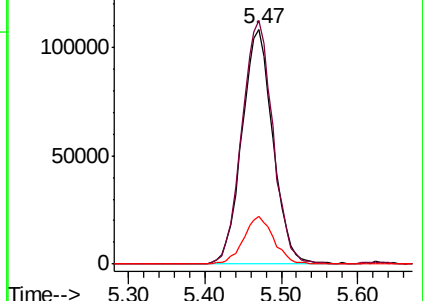
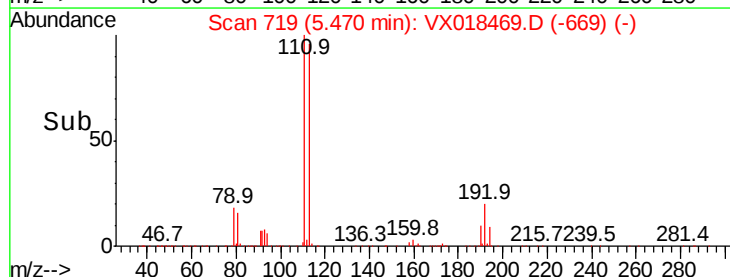
192 19.8 16.6 24.8

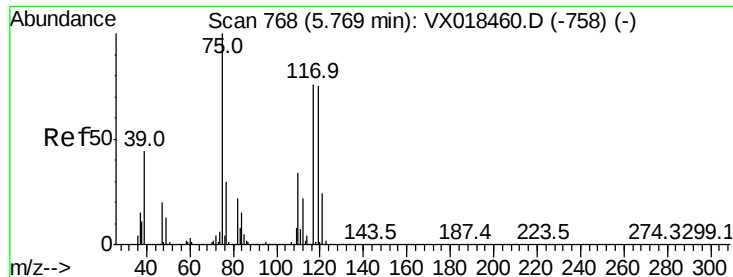


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.880 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2

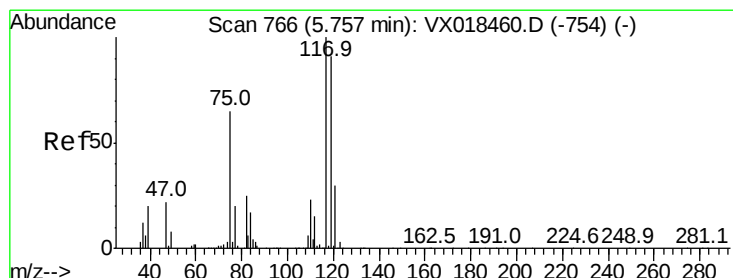
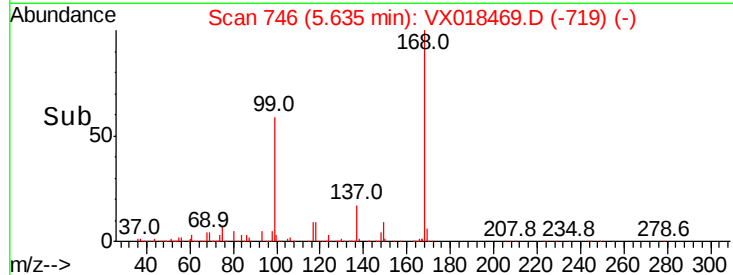
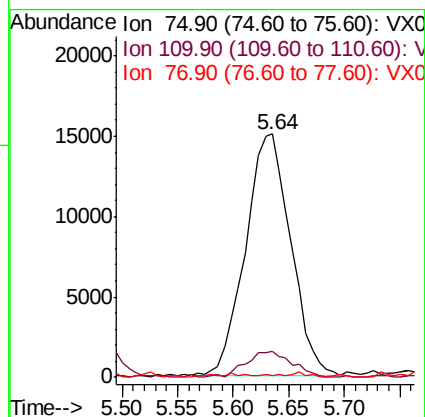
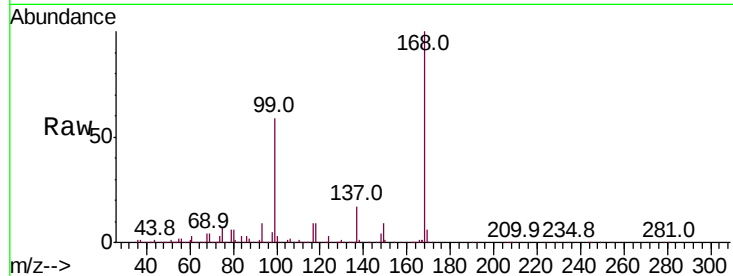
Tot Ion: 75 Resp: 42757

Ion Ratio Lower Upper

75 100

110 11.1 17.6 52.8#

77 0.4 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.816 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

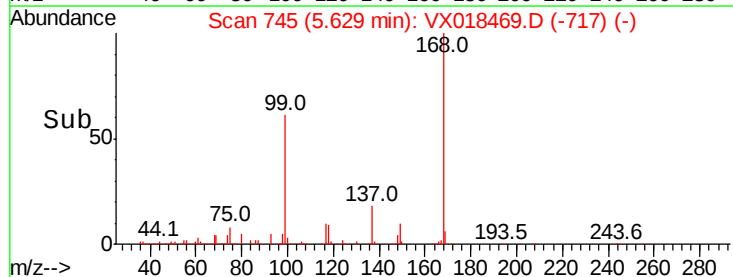
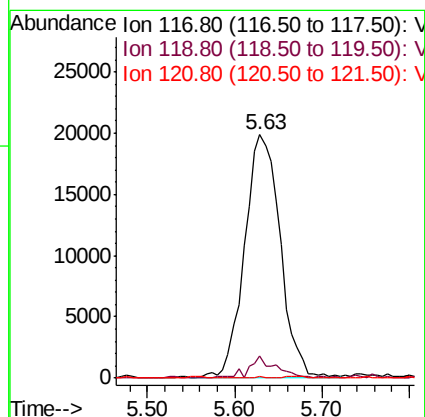
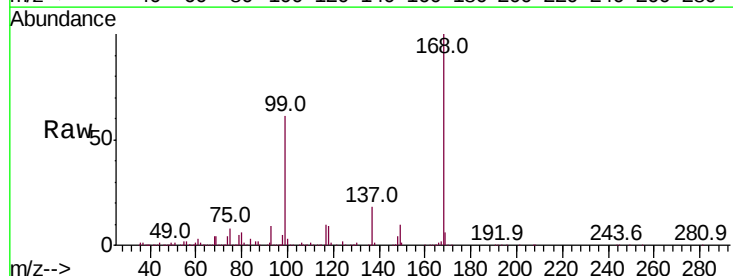
Tgt Ion: 117 Resp: 56434

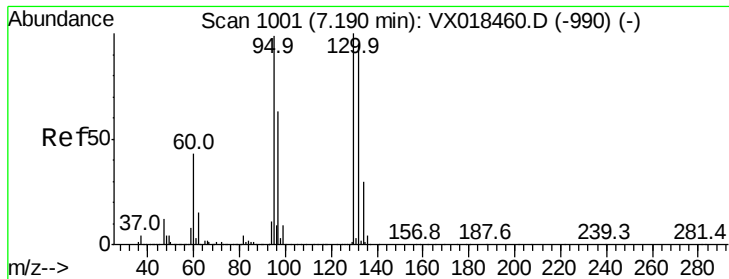
Ion Ratio Lower Upper

117 100

119 8.7 72.3 108.5#

121 0.5 23.8 35.8#





#44

Trichloroethene

Concen: 0.587 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

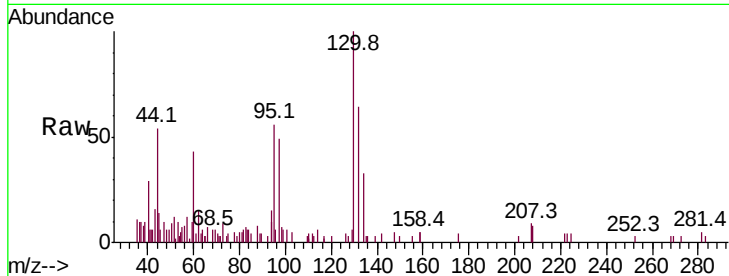
MW-2

Tot Ion:130 Resp: 4266

Ion Ratio Lower Upper

130 100

95 56.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

2500

2000

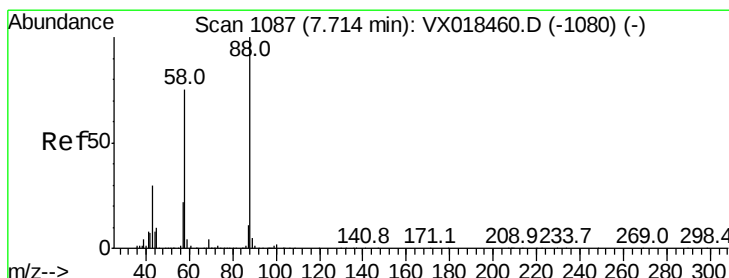
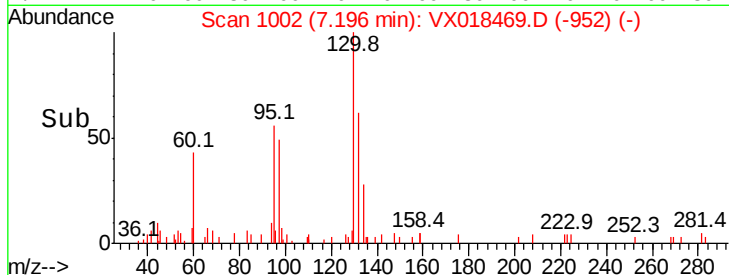
1500

1000

500

0

Time-->



#49

1,4-Dioxane

Concen: 0.400 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

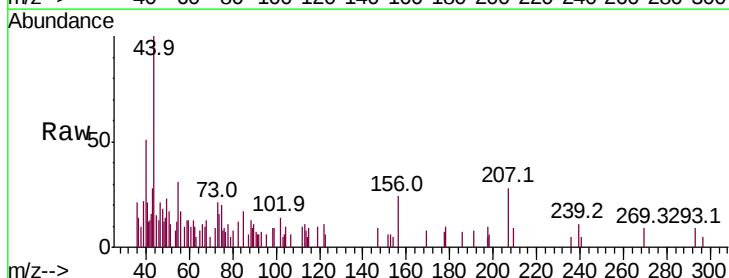
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 554.0 29.9 44.9#

58 318.0 59.0 88.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

600

500

400

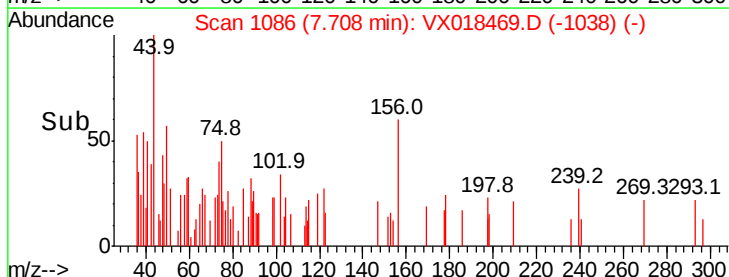
300

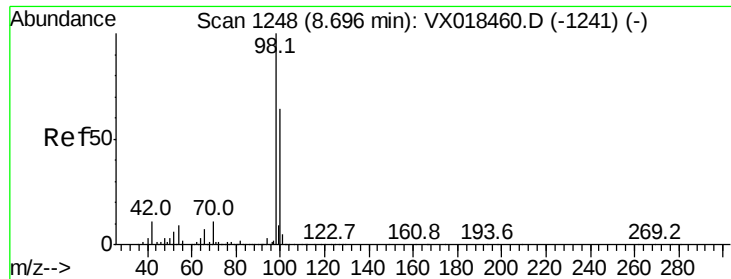
200

100

0

Time-->





#50

Toluene-d8

Concen: 48.843 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

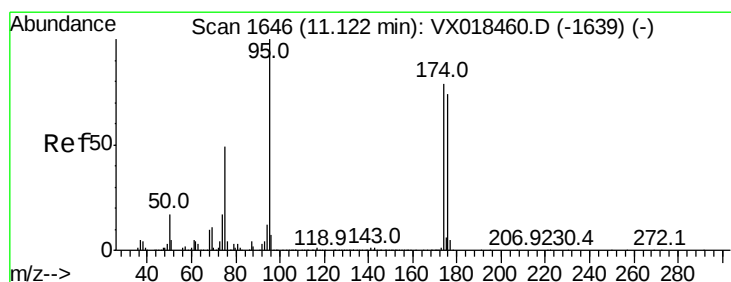
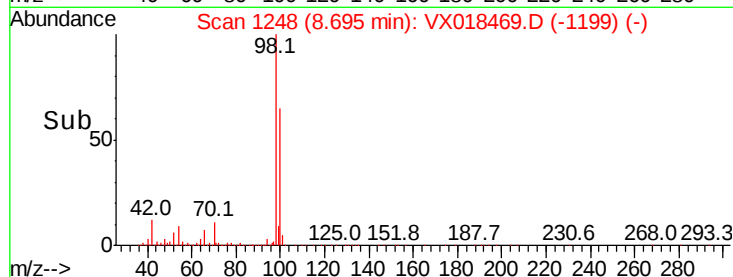
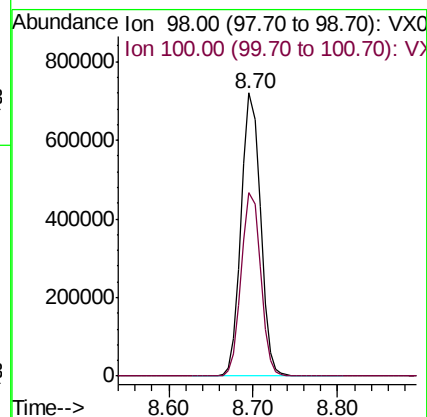
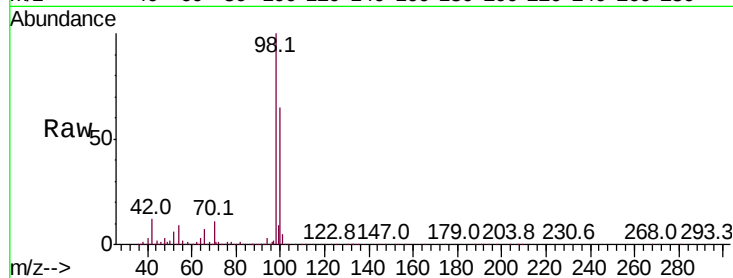
MW-2

Tot Ion: 98 Resp: 1107468

Ion Ratio Lower Upper

98 100

100 65.0 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 46.566 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

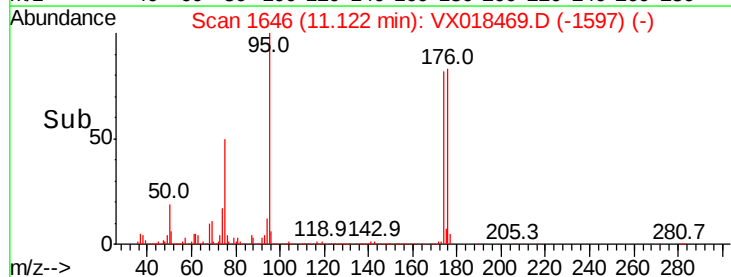
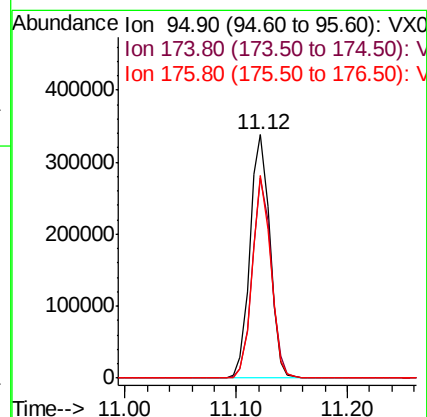
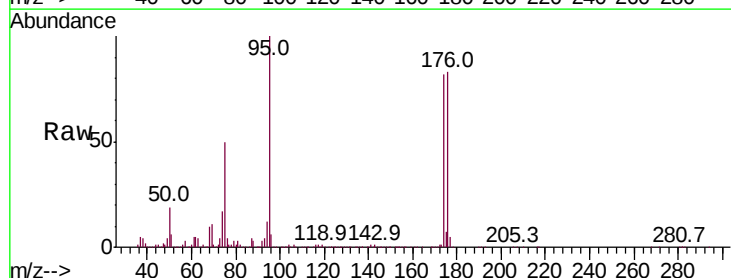
Tgt Ion: 95 Resp: 419986

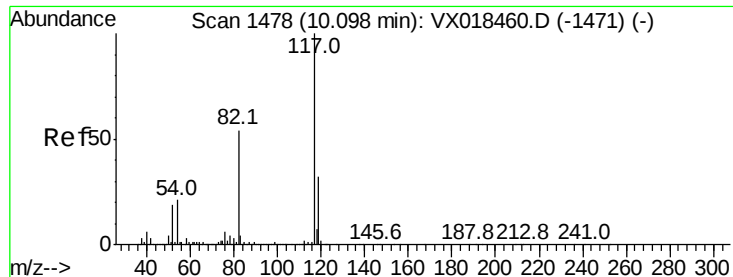
Ion Ratio Lower Upper

95 100

174 79.0 0.0 161.4

176 77.4 0.0 151.4

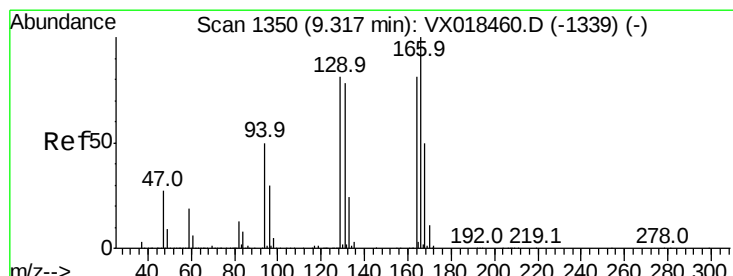
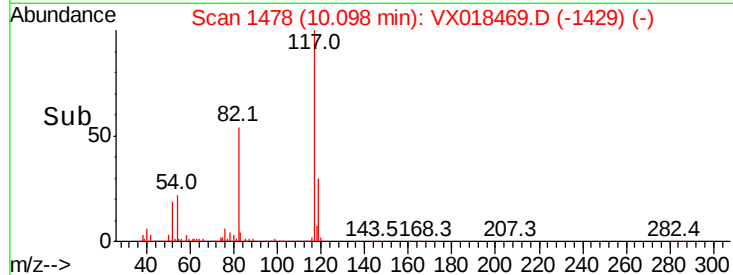
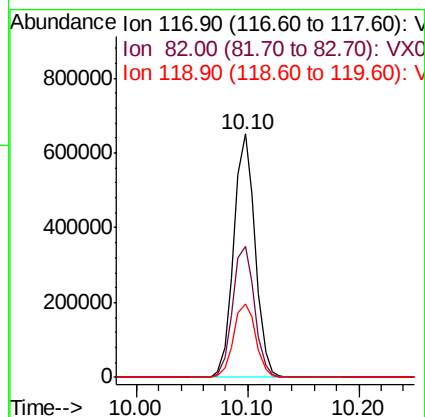
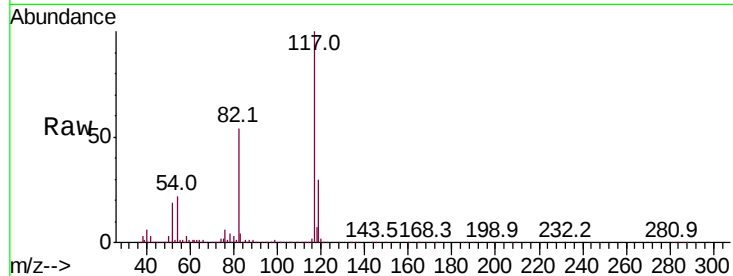




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018469.D
Acq: 17 Sep 2020 16:23

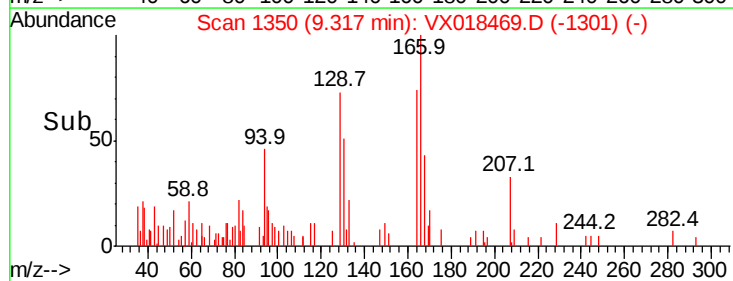
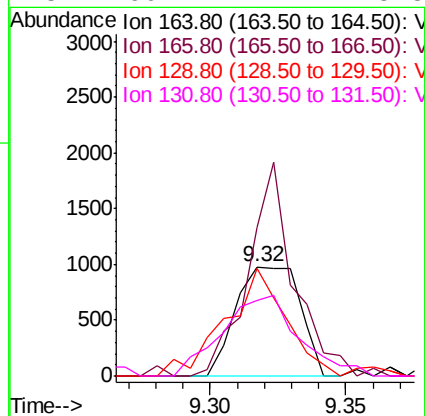
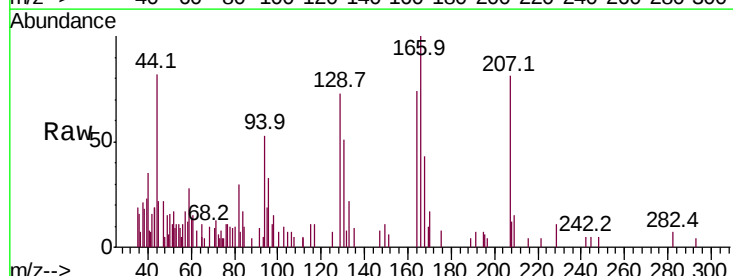
Instrument :
MSVOA_X
ClientSampled :
MW-2

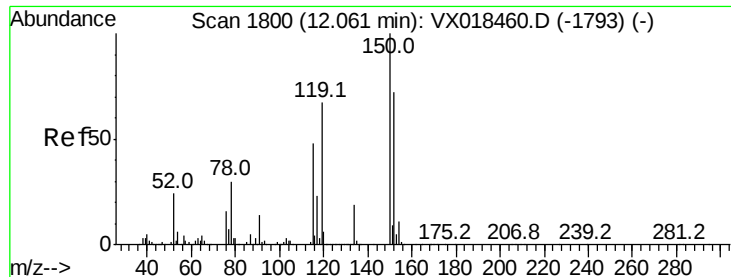
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.3	64.9
119	30.2	25.9	38.9



#64
Tetrachloroethene
Concen: 0.235 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX018469.D
Acq: 17 Sep 2020 16:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.0	99.3	148.9
129	98.8	80.7	121.1
131	60.7	77.2	115.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2

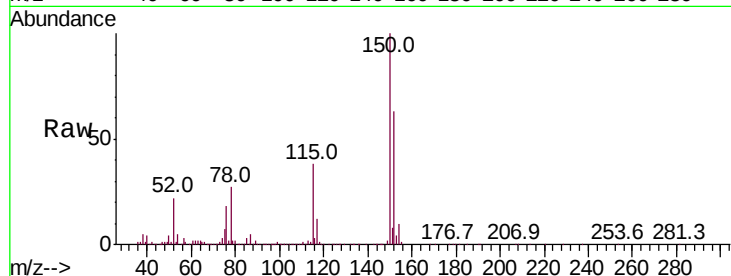
Tot Ion:152 Resp: 427727

Ion Ratio Lower Upper

152 100

115 59.6 41.8 125.4

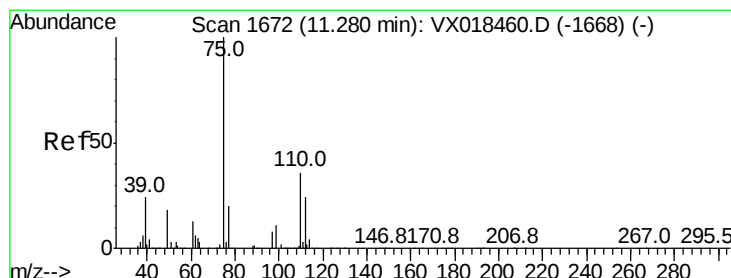
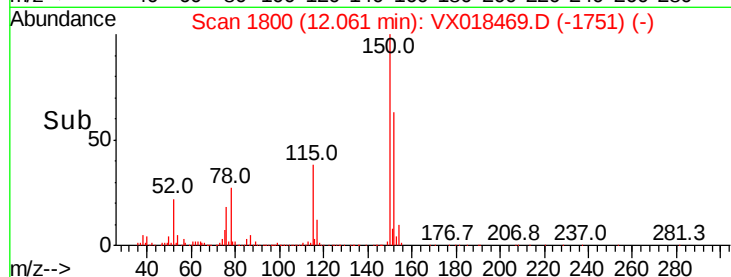
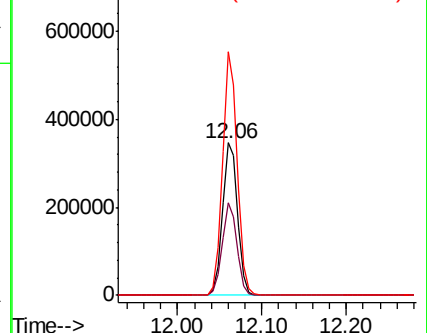
150 155.0 0.0 342.4



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



#76

1,2,3-Trichloropropane

Concen: 23.364 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018469.D

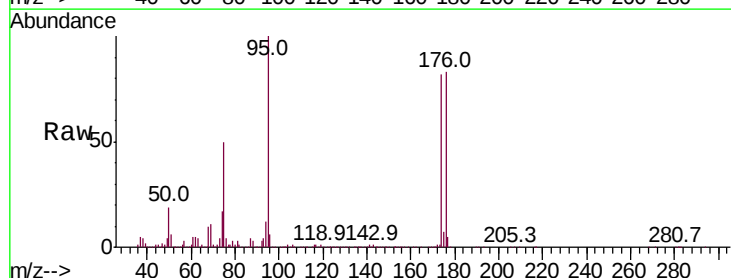
Acq: 17 Sep 2020 16:23

Tgt Ion: 75 Resp: 210004

Ion Ratio Lower Upper

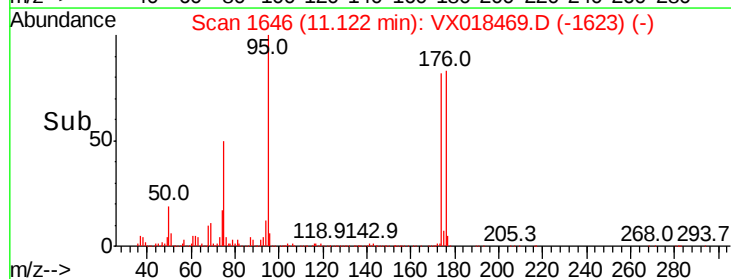
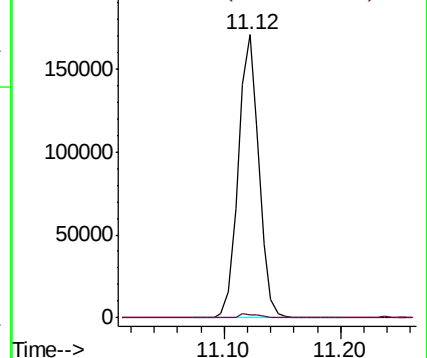
75 100

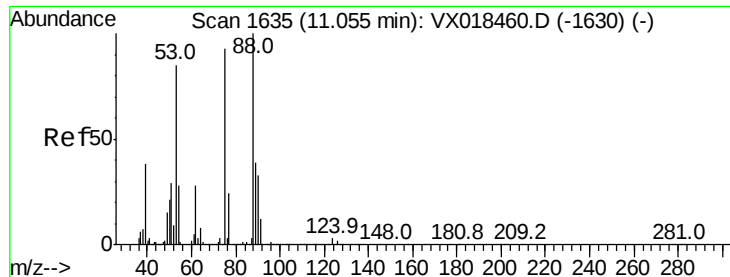
77 1.7 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.870 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2

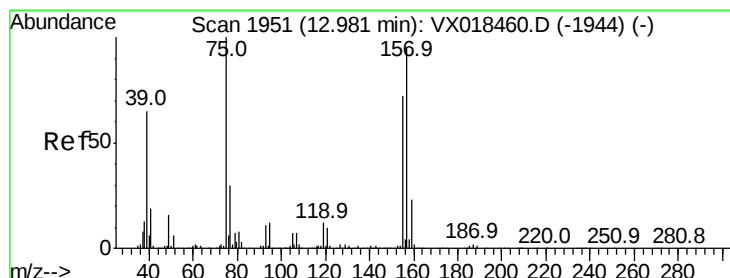
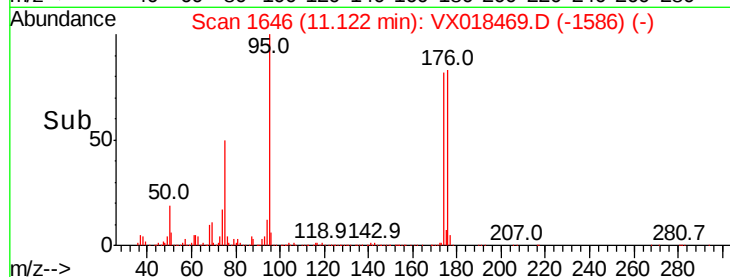
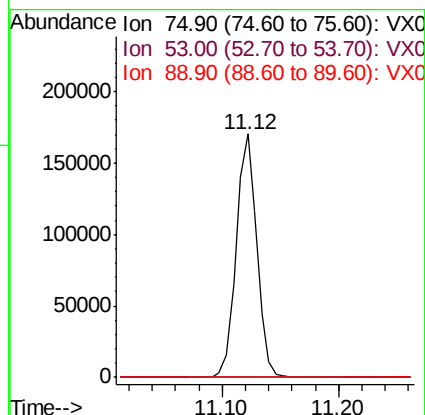
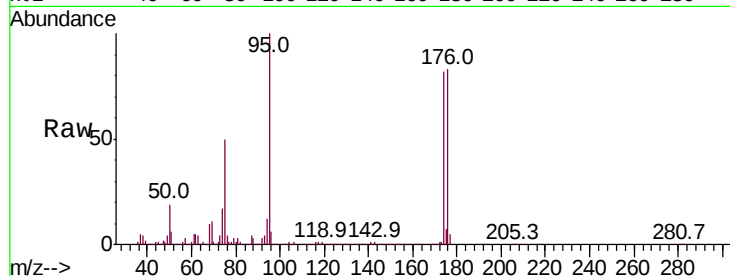
Tot Ion: 75 Resp: 210004

Ion Ratio Lower Upper

75 100

53 0.4 74.6 111.8#

89 0.1 36.2 54.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.276 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. -0.00 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

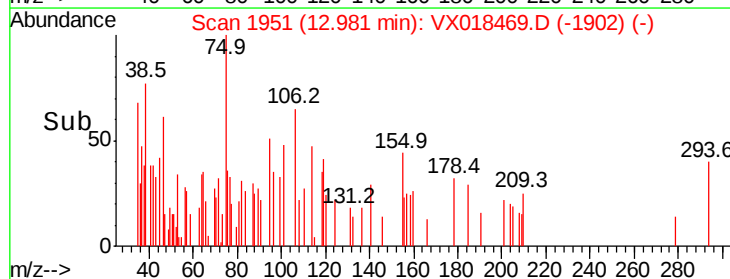
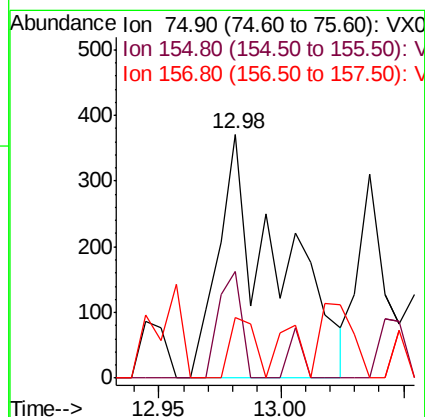
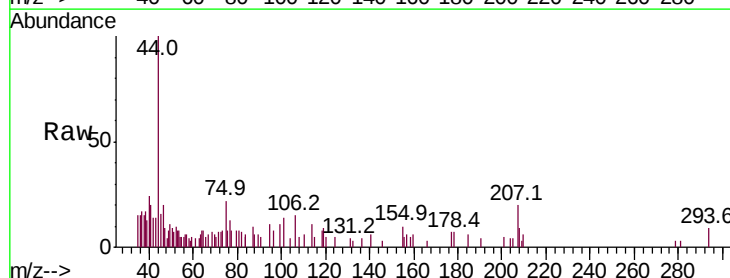
Tgt Ion: 75 Resp: 634

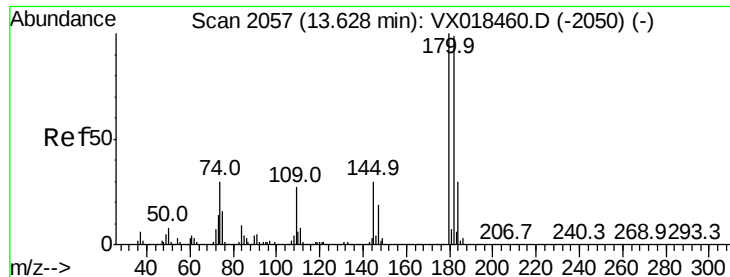
Ion Ratio Lower Upper

75 100

155 16.7 38.8 116.4#

157 10.1 51.1 153.3#

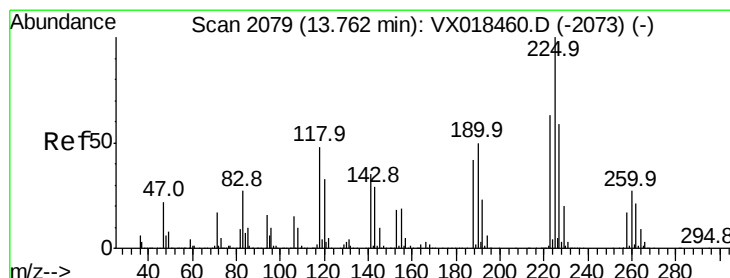
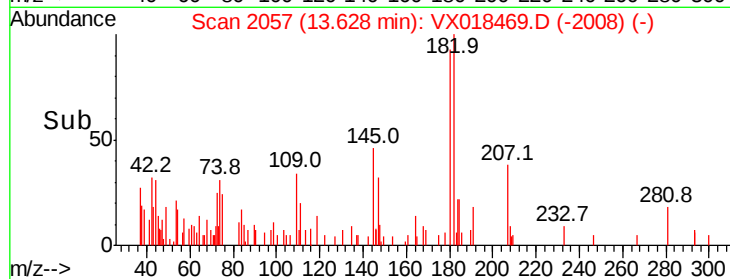
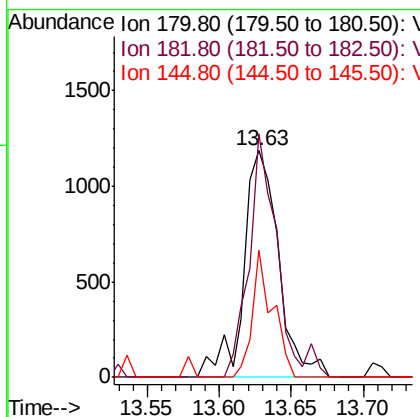
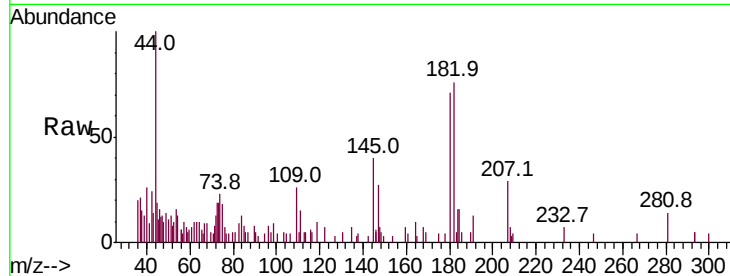




#93
 1,2,4-Trichlorobenzene
 Concen: 0.216 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX018469.D
 Acq: 17 Sep 2020 16:23

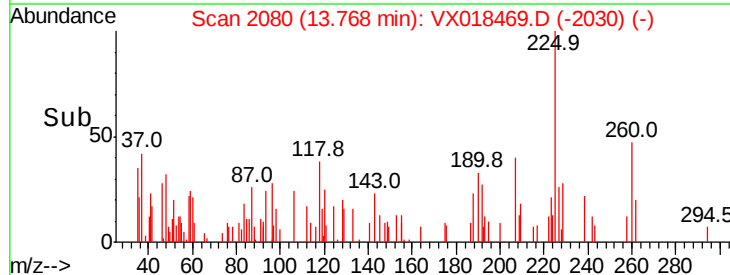
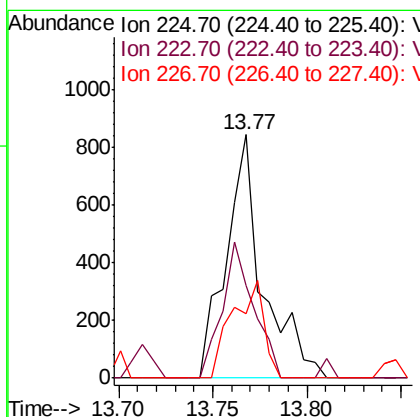
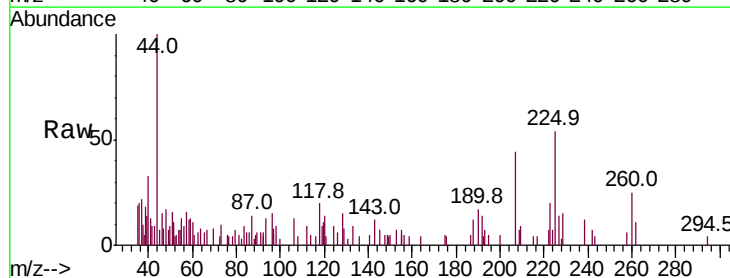
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

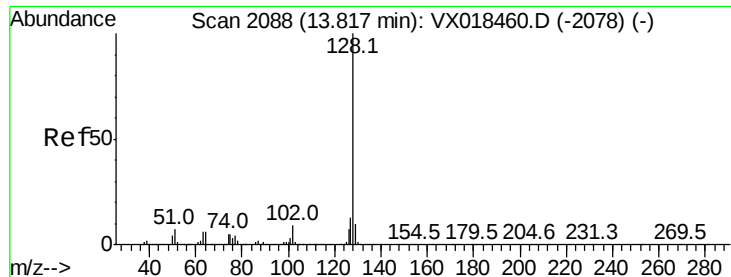
Tot Ion:180 Resp: 1990
 Ion Ratio Lower Upper
 180 100
 182 82.4 50.2 150.6
 145 32.3 15.7 47.1



#94
 Hexachlorobutadiene
 Concen: 0.294 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX018469.D
 Acq: 17 Sep 2020 16:23

Tgt Ion:225 Resp: 1141
 Ion Ratio Lower Upper
 225 100
 223 48.0 32.0 96.2
 227 34.3 31.7 95.1





#95

Naphthalene

Concen: 0.201 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018469.D

Acq: 17 Sep 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2

Tot Ion:128 Resp: 5612

Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

129 14.2 8.7 13.1#

