

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO63020\
 Data File : VX017078.D
 Acq On : 01 Jul 2020 04:55
 Operator : JC/SP
 Sample : PB129852ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#14

Quant Time: Jul 01 08:25:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	226182	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	396927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	424434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215199	50.00	ug/l	0.00

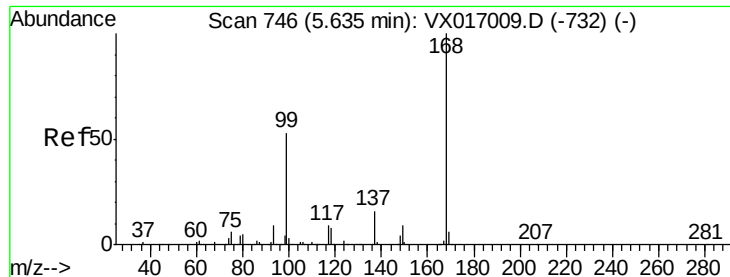
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	152869	54.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.64%	
35) Dibromofluoromethane	5.46	113	134235	53.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.92%	
50) Toluene-d8	8.70	98	499741	53.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.64%	
62) 4-Bromofluorobenzene	11.12	95	209502	57.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.44%	

Target Compounds

						Qvalue
8) Diethyl Ether	2.13	74	99	0.446	ug/l	78
11) Tert butyl alcohol	3.00	59	1418	2.666	ug/l #	81
13) Acrolein	2.26	56	275	0.865	ug/l #	15
16) Acetone	2.42	43	15068	14.445	ug/l	100
18) Methyl Acetate	2.75	43	3923	1.441	ug/l	96
20) Methylene Chloride	2.84	84	6774	2.081	ug/l	93
25) 2-Butanone	4.65	43	3424	1.970	ug/l #	88
31) Cyclohexane	5.63	56	4758	1.264	ug/l #	8
36) 1,1-Dichloropropene	5.63	75	16407	4.374	ug/l #	51
38) Carbon Tetrachloride	5.63	117	22658	5.484	ug/l #	19
43) Isopropyl Acetate	6.42	43	75551	11.945	ug/l	99
44) Trichloroethene	7.19	130	280	Below Cal		62
48) Methyl methacrylate	7.65	41	4056	1.350	ug/l #	15
49) 1,4-Dioxane	7.74	88	31	0.455	ug/l #	24
51) 4-Methyl-2-Pentanone	8.59	43	74434	19.742	ug/l #	53
54) cis-1,3-Dichloropropene	8.60	75	33542	7.120	ug/l #	60
56) Ethyl methacrylate	9.28	69	1861	0.465	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6100	1.282	ug/l #	45
59) 2-Hexanone	9.42	43	86898	31.559	ug/l #	23
74) N-amyl acetate	10.80	43	3274	0.544	ug/l #	49
76) 1,2,3-Trichloropropane	11.12	75	103742	24.515	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	8589	0.735	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	103742	63.485	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	251	Below Cal		82
94) Hexachlorobutadiene	13.76	225	44	0.870	ug/l #	46

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

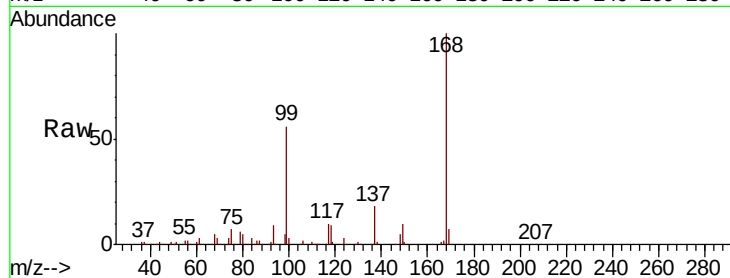
PB129852ZHE#14

Tot Ion:168 Resp: 226182

Ion Ratio Lower Upper

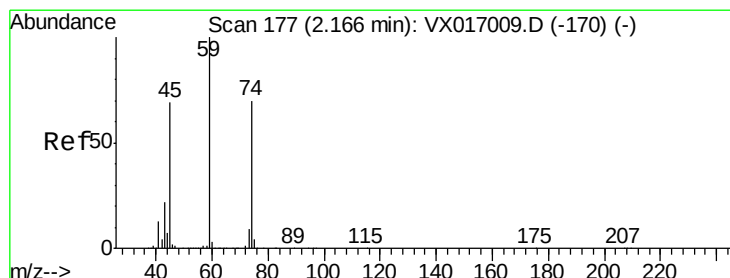
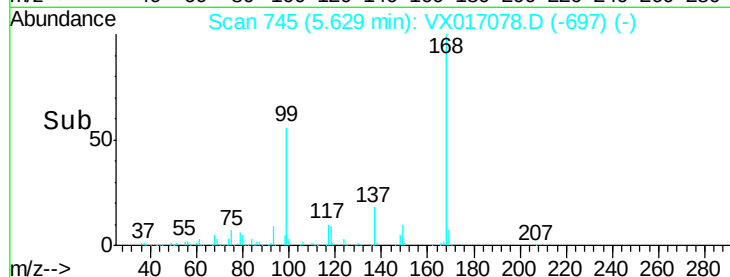
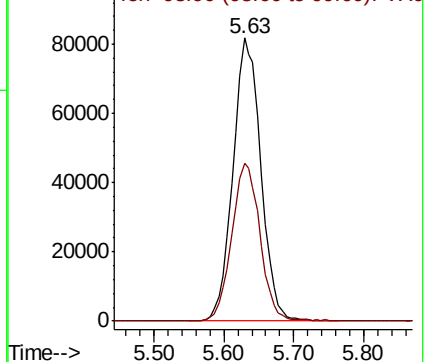
168 100

99 55.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.446 ug/l

RT: 2.13 min Scan# 171

Delta R.T. -0.04 min

Lab File: VX017078.D

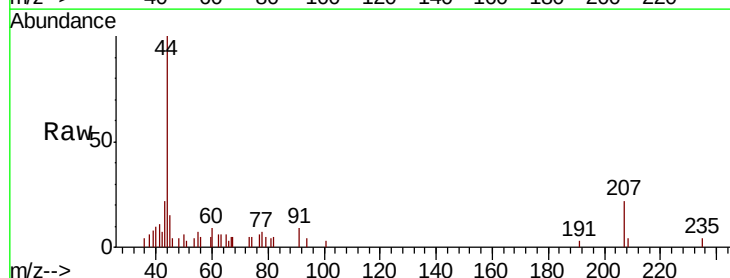
Acq: 01 Jul 2020 04:55

Tgt Ion: 74 Resp: 99

Ion Ratio Lower Upper

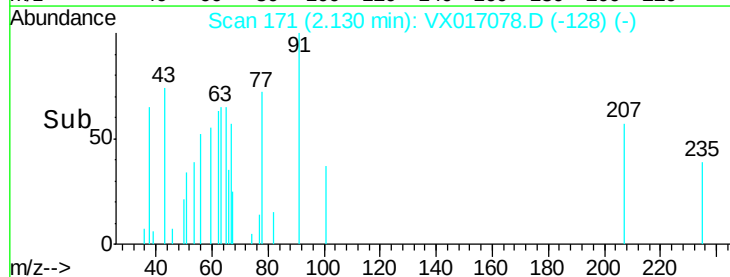
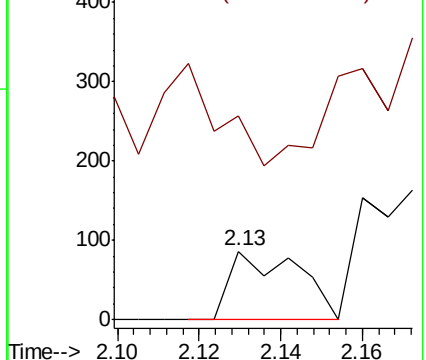
74 100

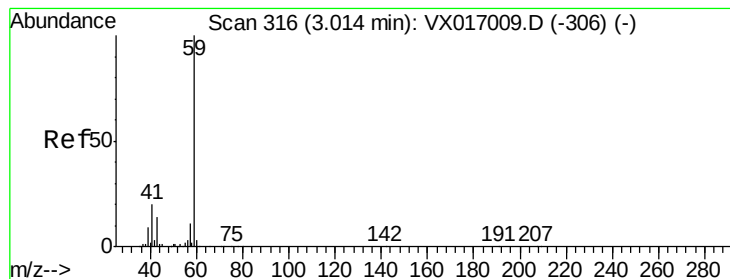
45 121.2 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



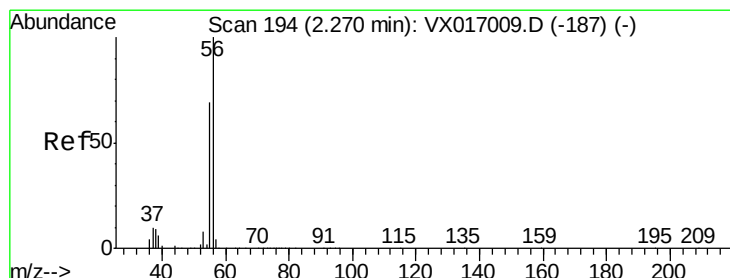
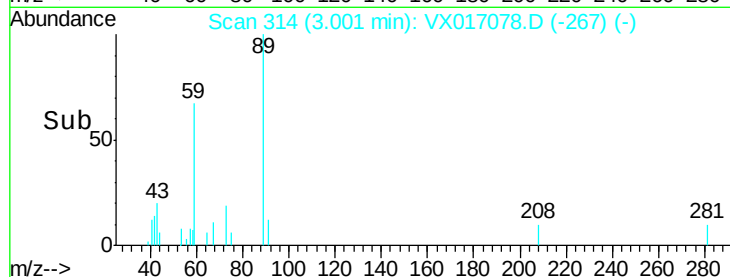
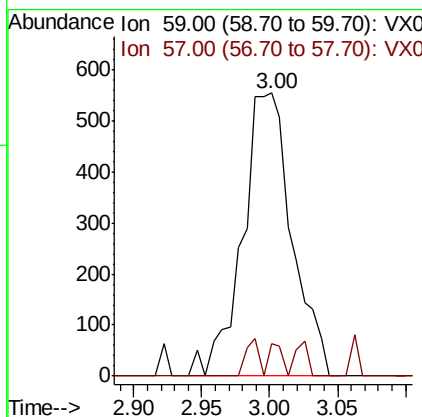
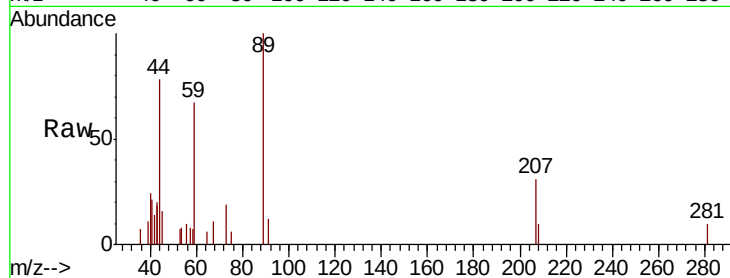


#11

Tert butyl alcohol
 Concen: 2.666 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#14

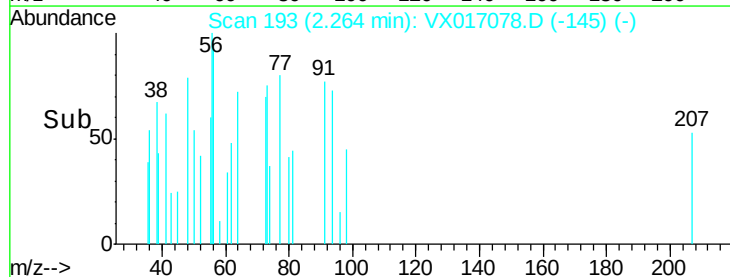
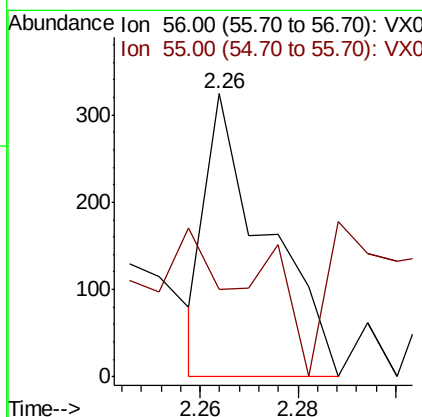
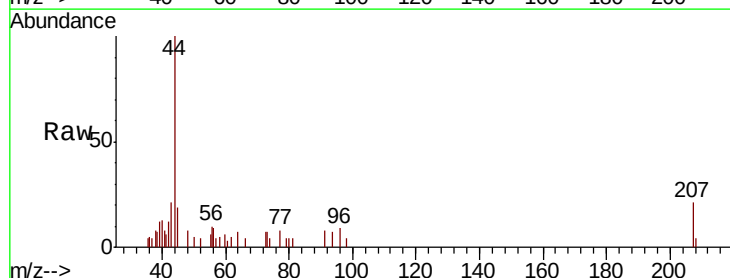
Tot Ion: 59 Resp: 1418
 Ion Ratio Lower Upper
 59 100
 57 3.2 8.2 12.2#

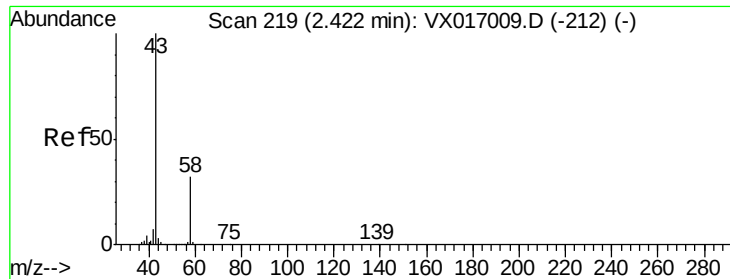


#13

Acrolein
 Concen: 0.865 ug/l
 RT: 2.26 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Tgt Ion: 56 Resp: 275
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.7 83.5#





#16

Acetone

Concen: 14.445 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

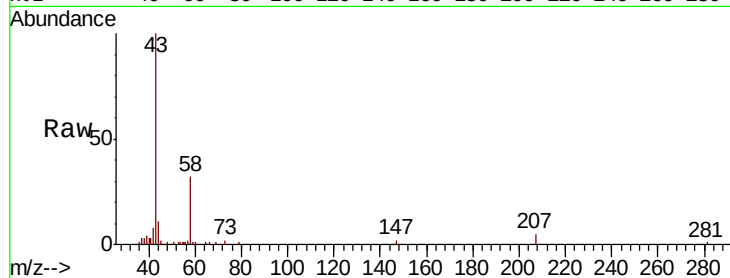
PB129852ZHE#14

Tot Ion: 43 Resp: 15068

Ion Ratio Lower Upper

43 100

58 32.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

10000

8000

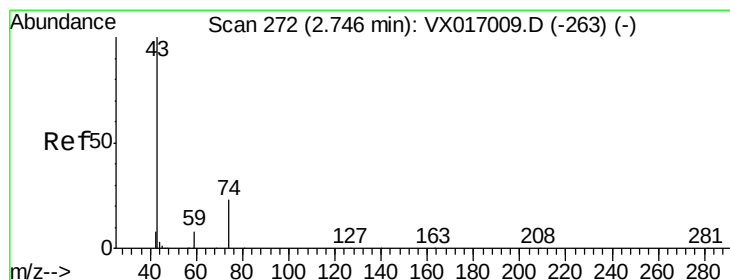
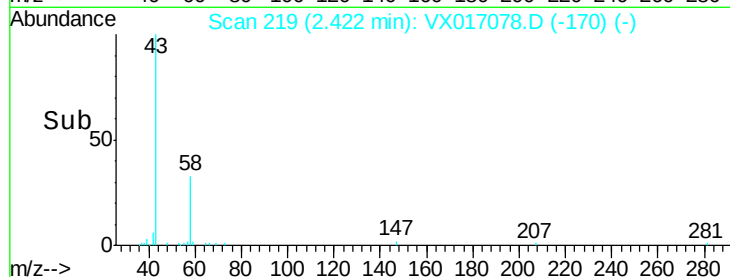
6000

4000

2000

0

Time--> 2.30 2.40 2.50



#18

Methyl Acetate

Concen: 1.441 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX017078.D

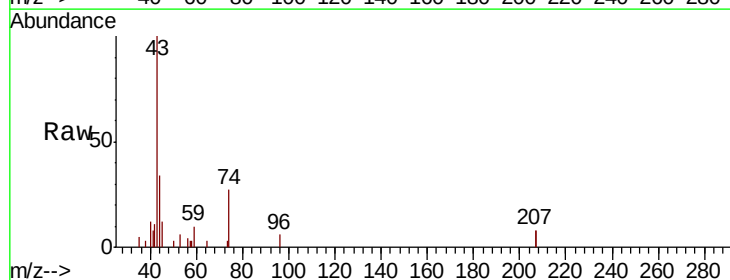
Acq: 01 Jul 2020 04:55

Tgt Ion: 43 Resp: 3923

Ion Ratio Lower Upper

43 100

74 22.4 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

2000

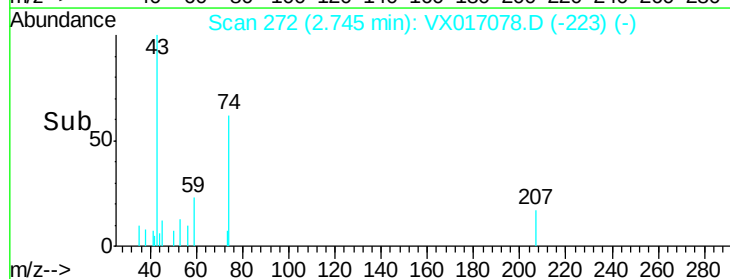
1500

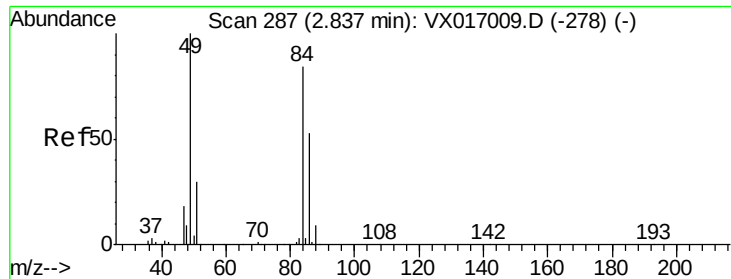
1000

500

0

Time--> 2.70 2.75 2.80

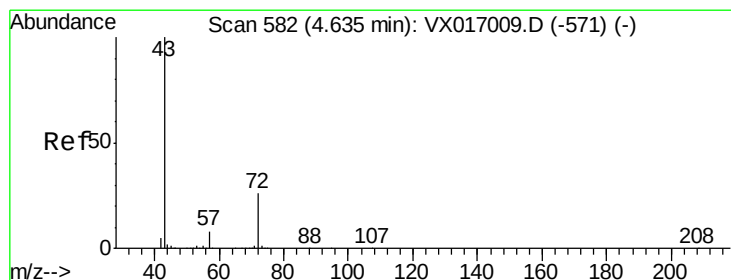
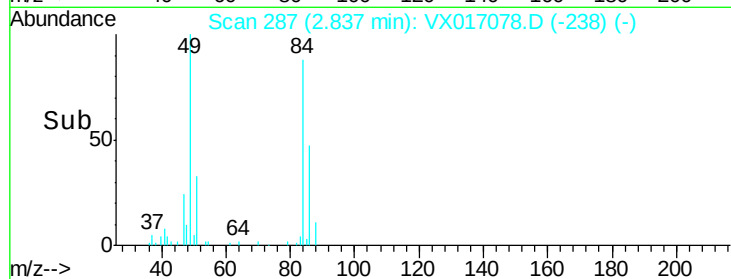
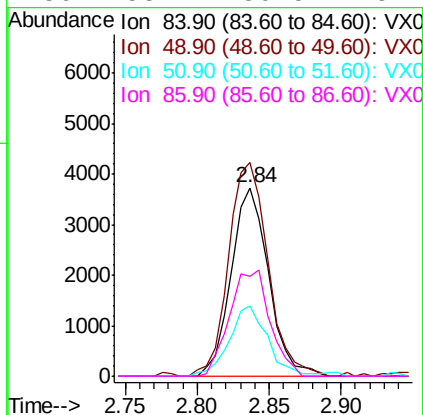
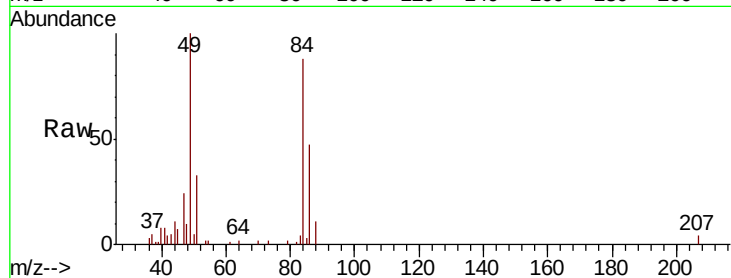




#20
Methylene Chloride
Concen: 2.081 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

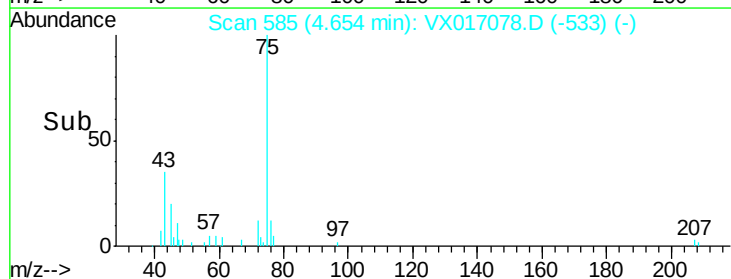
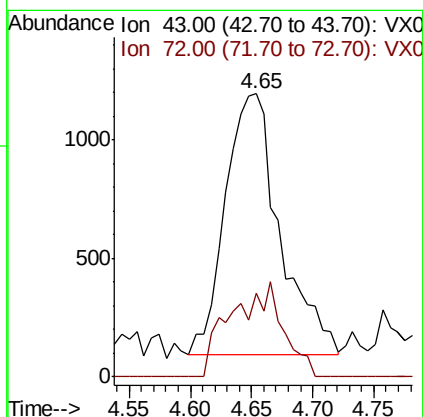
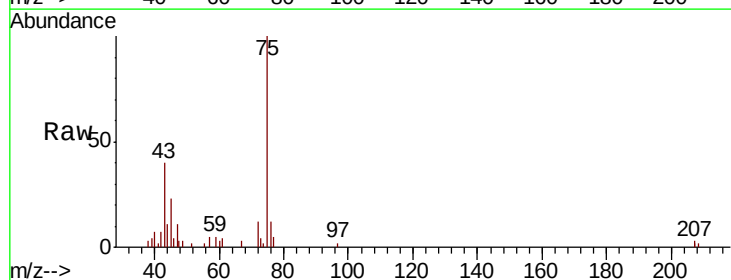
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#14

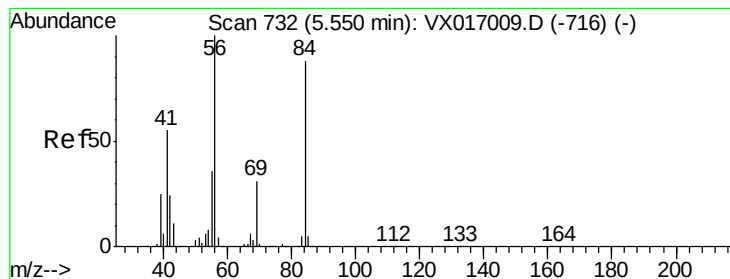
Tot Ion: 84 Resp: 6774
Ion Ratio Lower Upper
84 100
49 113.4 94.7 142.1
51 37.2 28.6 42.8
86 53.4 50.5 75.7



#25
2-Butanone
Concen: 1.970 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

Tgt Ion: 43 Resp: 3424
Ion Ratio Lower Upper
43 100
72 32.1 20.8 31.2#





#31

Cyclohexane

Concen: 1.264 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#14

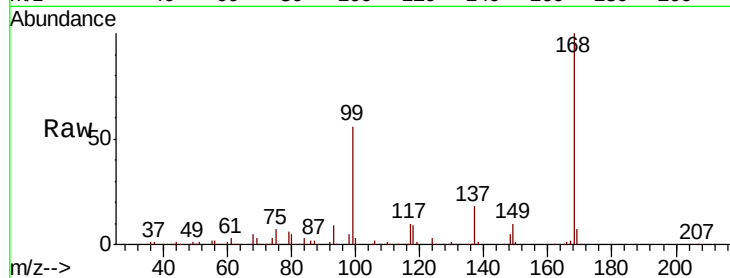
Tot Ion: 56 Resp: 4758

Ion Ratio Lower Upper

56 100

69 145.6 25.0 37.4#

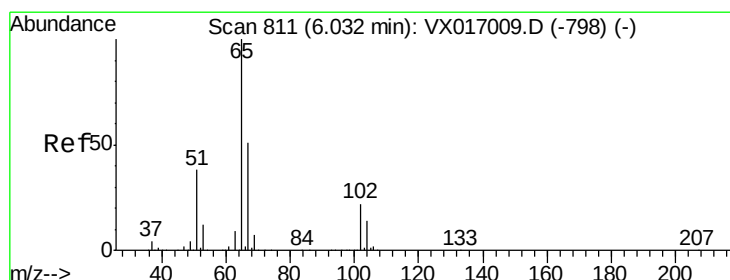
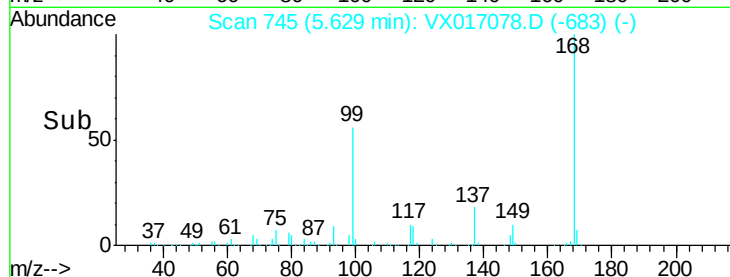
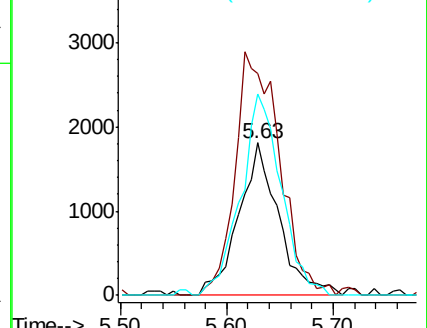
84 132.4 69.1 103.7#



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: 54.824 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017078.D

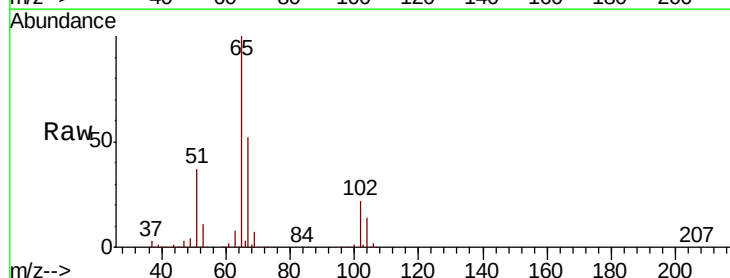
Acq: 01 Jul 2020 04:55

Tgt Ion: 65 Resp: 152869

Ion Ratio Lower Upper

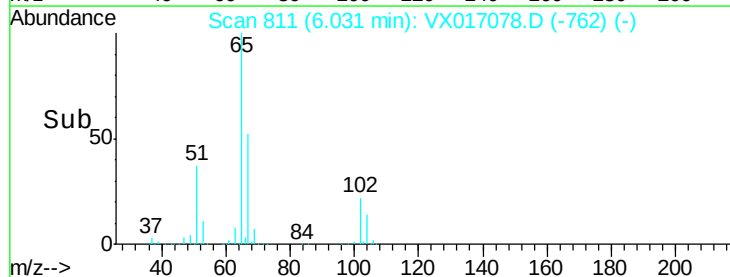
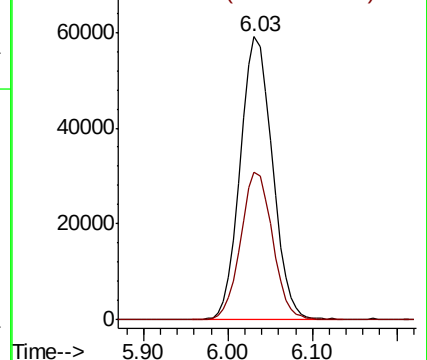
65 100

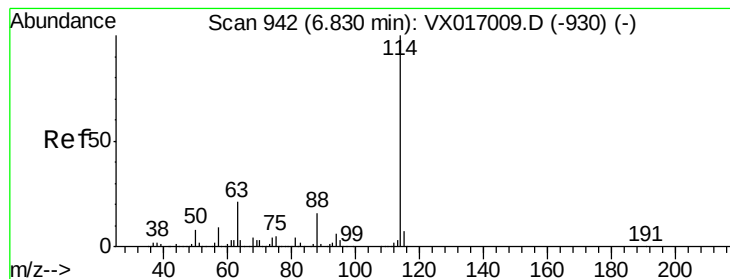
67 51.6 0.0 103.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#14

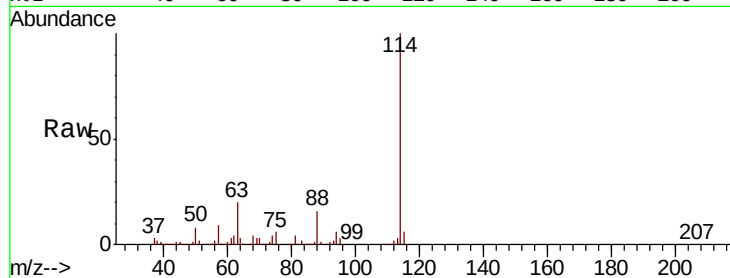
Tot Ion:114 Resp: 396927

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.4

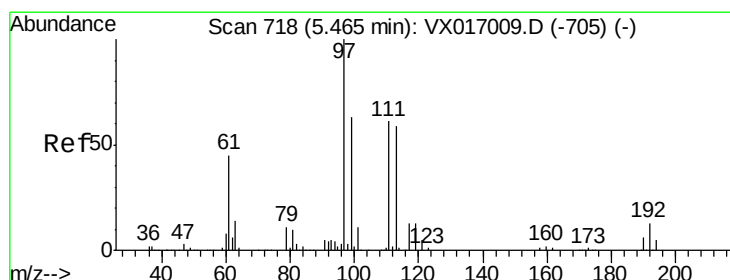
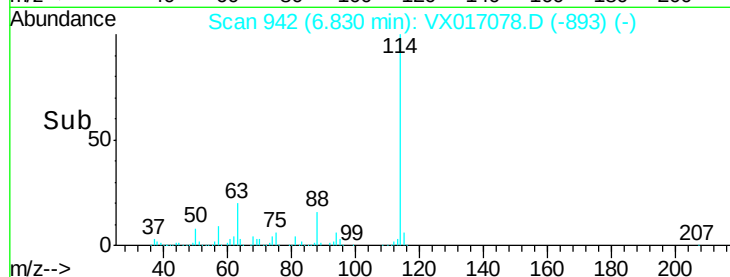
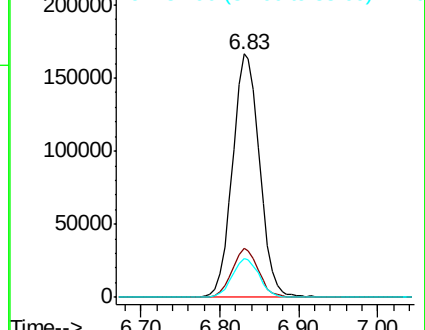
88 16.0 0.0 32.4



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: 53.462 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

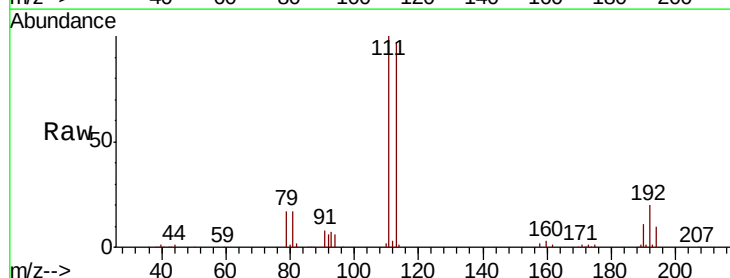
Tgt Ion:113 Resp: 134235

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

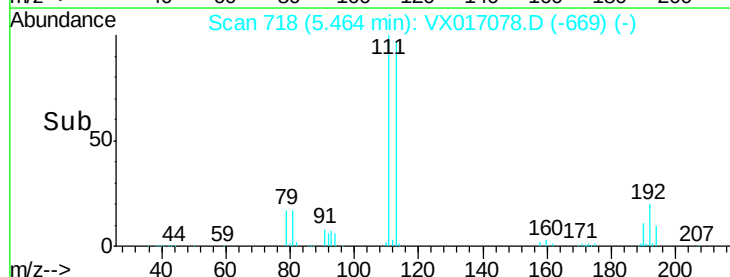
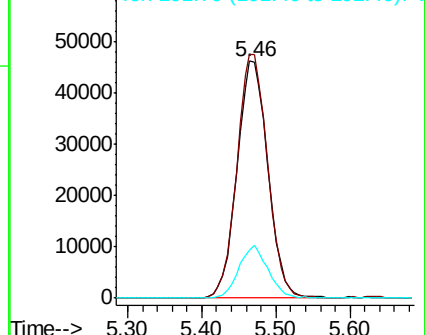
192 21.1 16.7 25.1

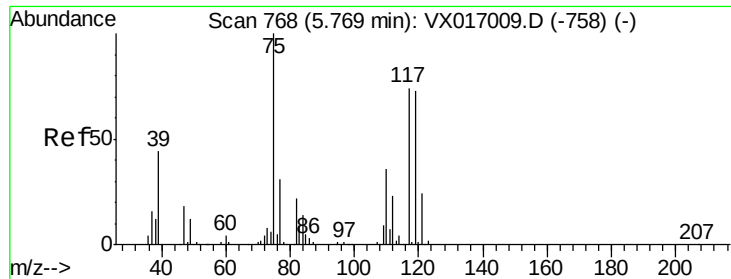


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

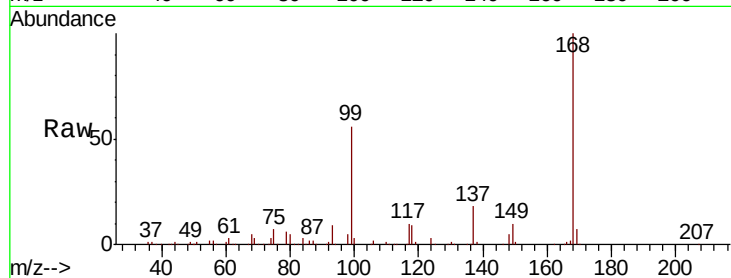




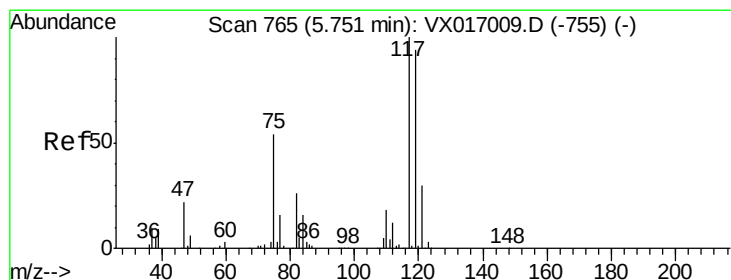
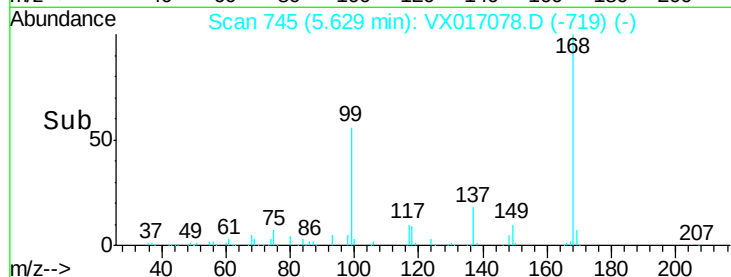
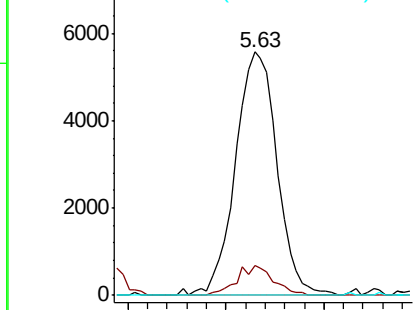
#36
 1,1-Dichloropropene
 Concen: 4.374 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#14

Tot Ion: 75 Resp: 16407
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.1#
 77 0.0 24.6 37.0#

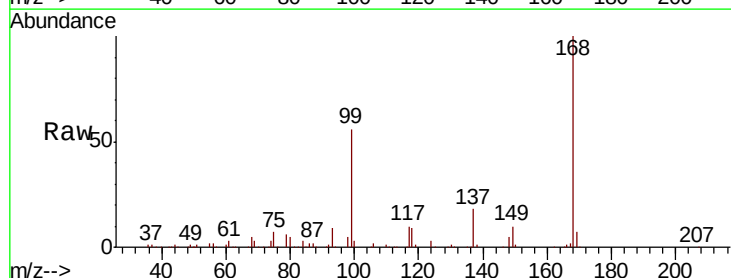


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

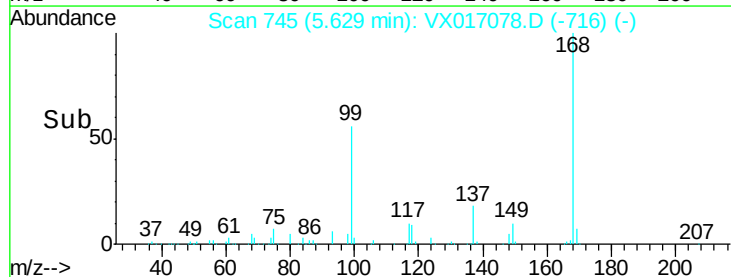
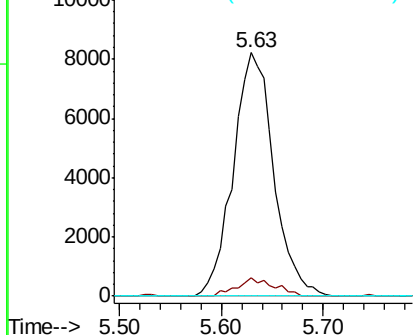


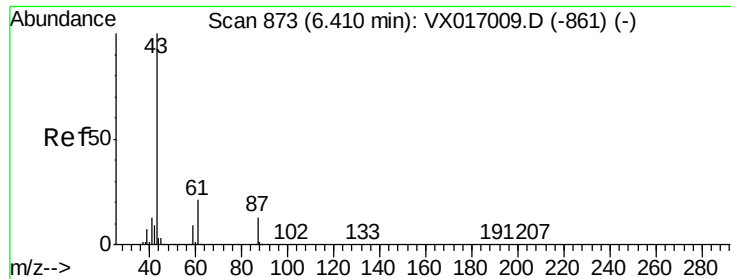
#38
 Carbon Tetrachloride
 Concen: 5.484 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Tgt Ion:117 Resp: 22658
 Ion Ratio Lower Upper
 117 100
 119 7.4 75.4 113.0#
 121 0.0 23.8 35.6#



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



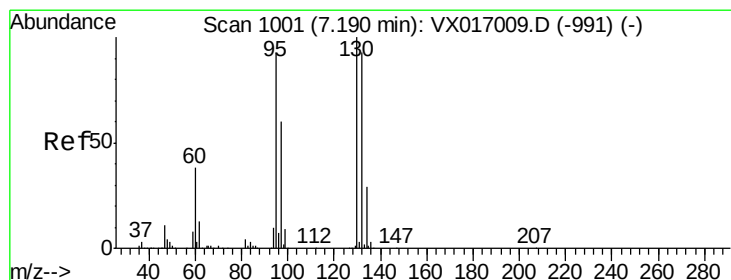
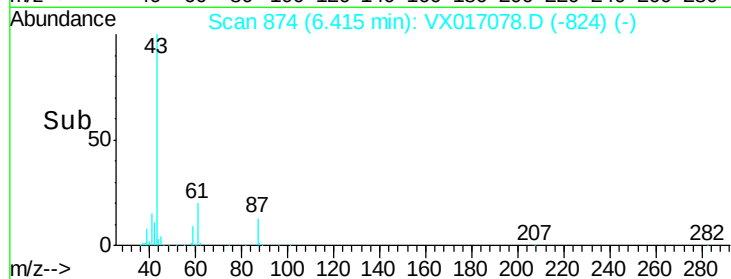
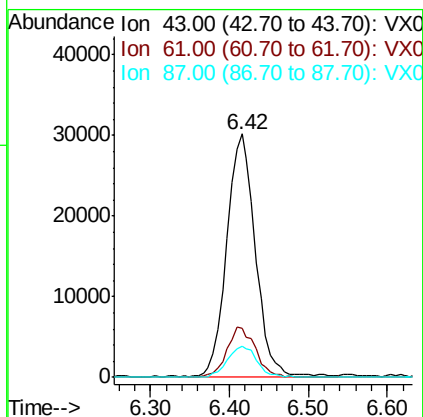
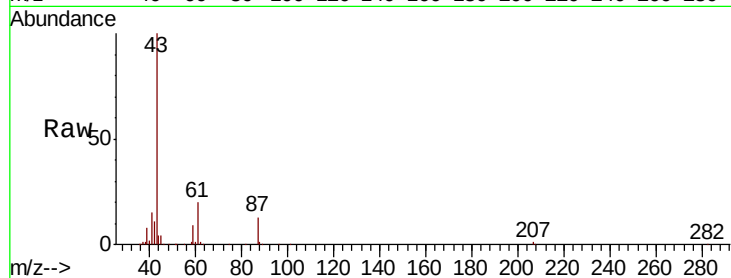


#43

Isopropyl Acetate
 Concen: 11.945 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#14

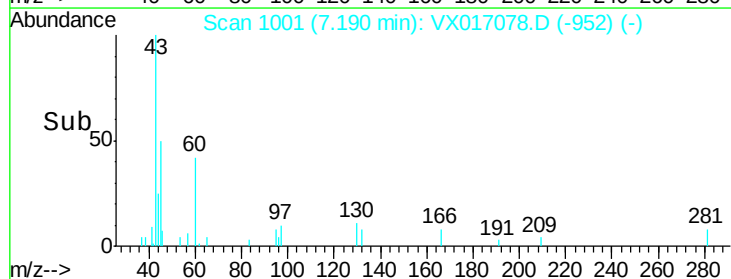
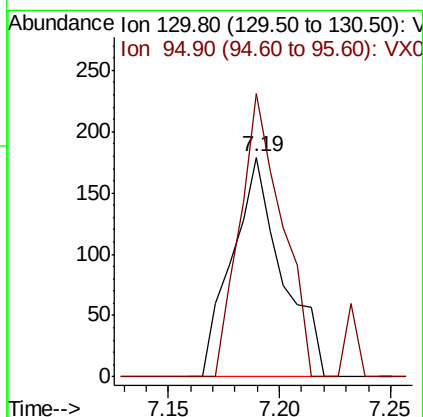
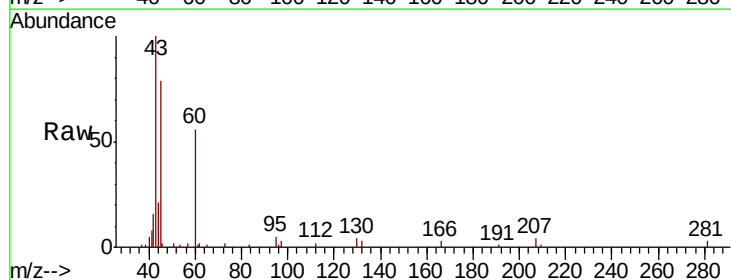
Tot Ion: 43 Resp: 75551
 Ion Ratio Lower Upper
 43 100
 61 20.7 16.2 24.2
 87 13.5 10.7 16.1

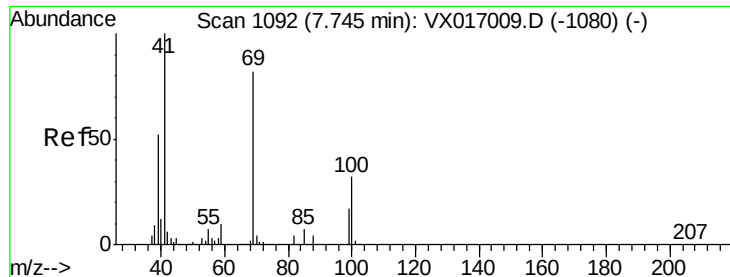


#44

Trichloroethene
 Concen: Below Cal
 RT: 7.19 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Tgt Ion: 130 Resp: 280
 Ion Ratio Lower Upper
 130 100
 95 129.1 0.0 185.0

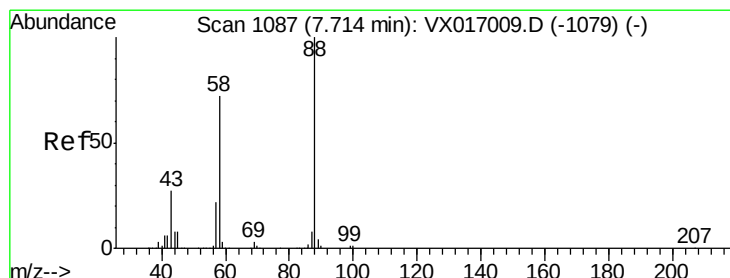
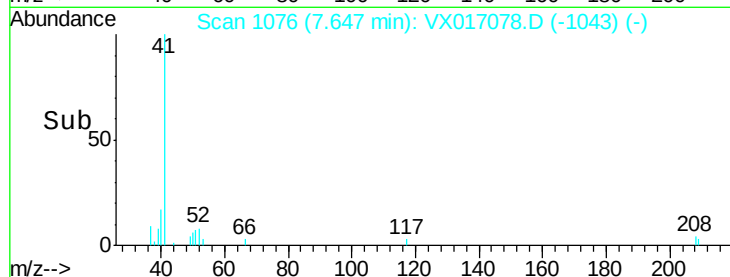
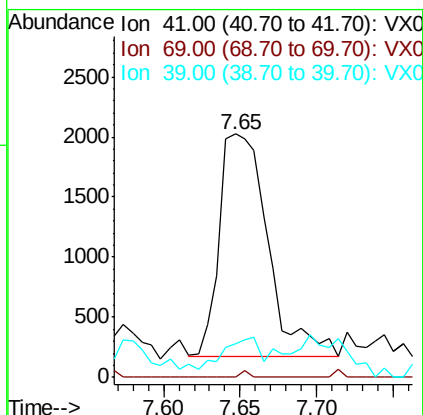
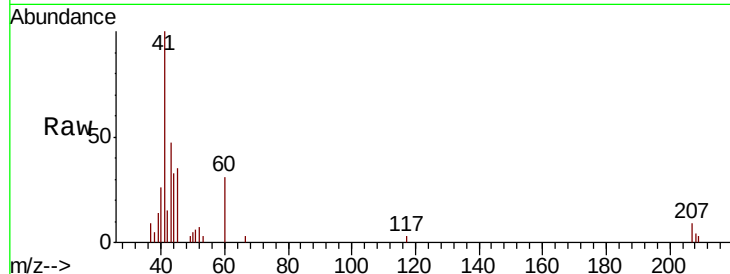




#48
Methvl methacrylate
Concen: 1.350 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

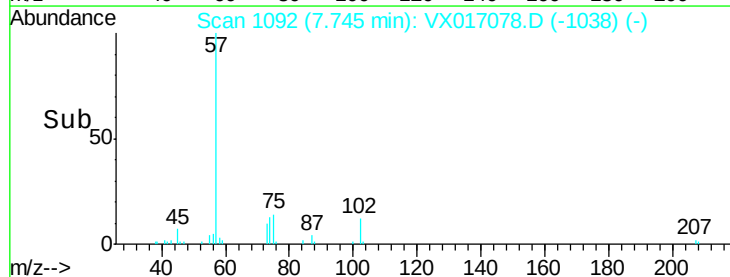
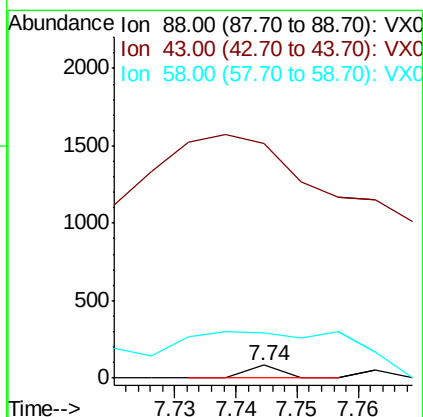
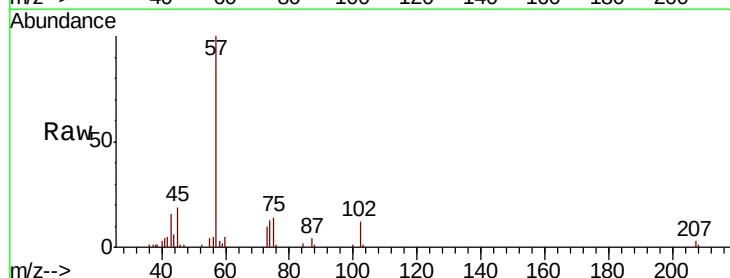
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#14

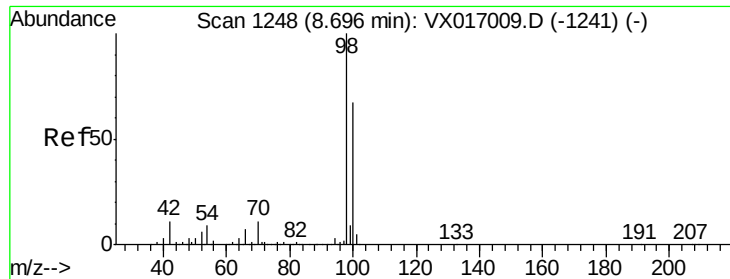
Tot Ion: 41 Resp: 4056
Ion Ratio Lower Upper
41 100
69 0.5 65.8 98.8#
39 0.0 42.5 63.7#



#49
1,4-Dioxane
Concen: 0.455 ug/l
RT: 7.74 min Scan# 1092
Delta R.T. 0.03 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 0.0 54.8 82.2#

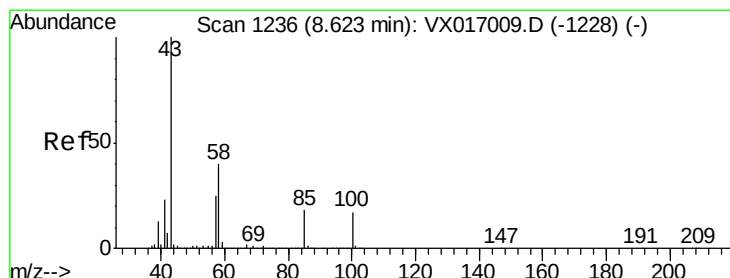
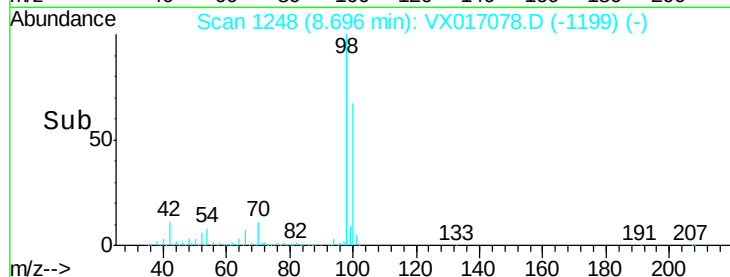
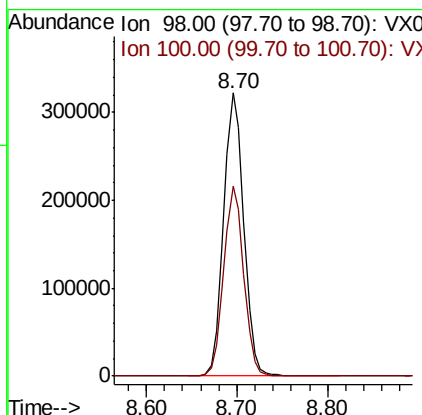
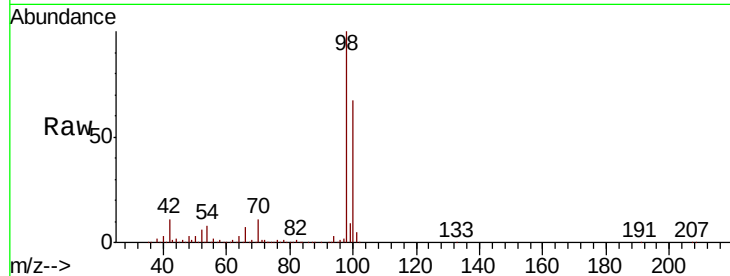




#50
Toluene-d8
Concen: 53.825 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

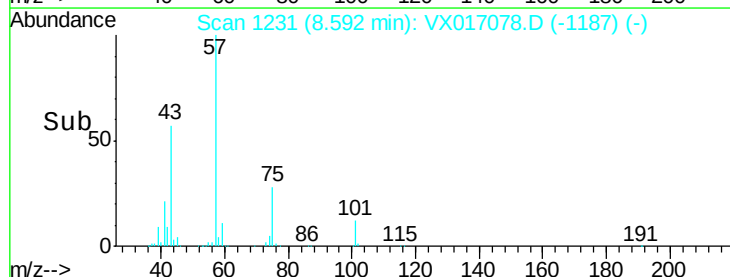
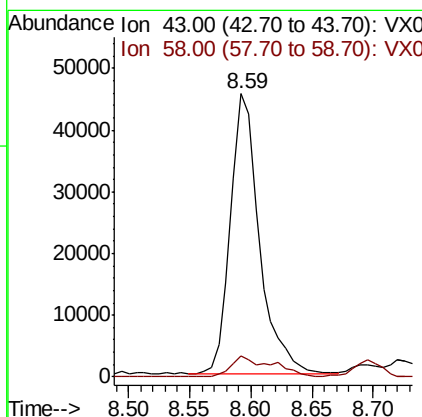
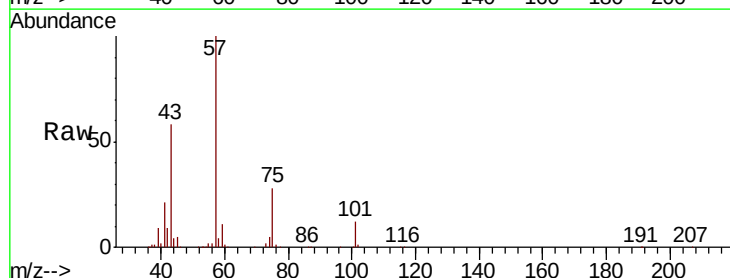
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#14

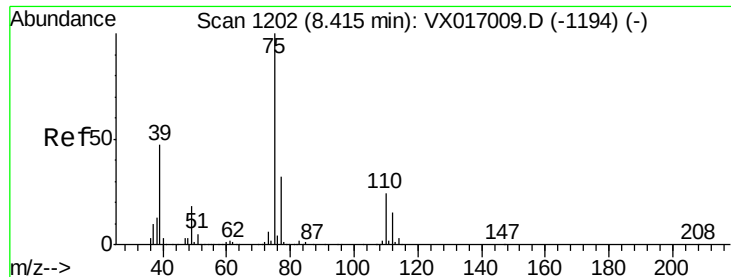
Tot Ion: 98 Resp: 499741
Ion Ratio Lower Upper
98 100
100 66.5 53.8 80.6



#51
4-Methyl-2-Pentanone
Concen: 19.742 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

Tgt Ion: 43 Resp: 74434
Ion Ratio Lower Upper
43 100
58 10.7 31.9 47.9#





#54

cis-1,3-Dichloropropene

Concen: 7.120 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#14

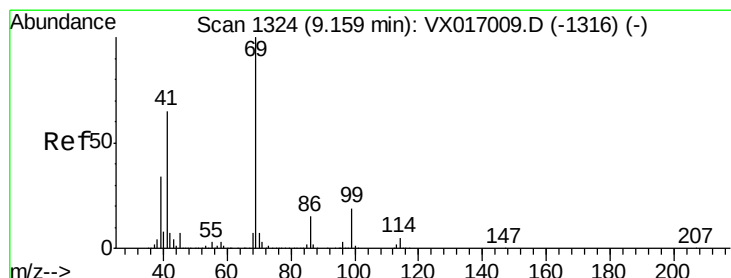
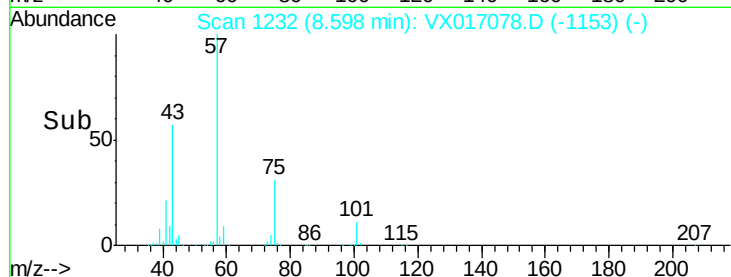
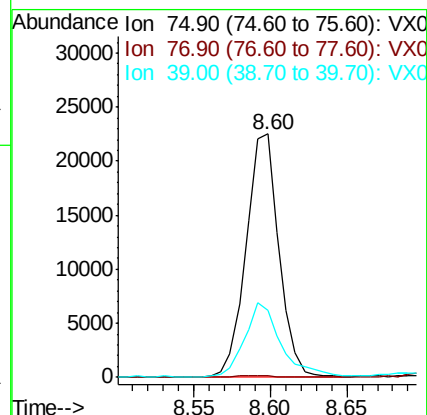
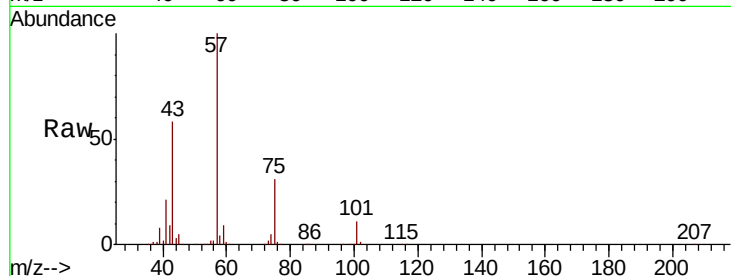
Tot Ion: 75 Resp: 33542

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

39 27.2 37.4 56.2#



#56

Ethyl methacrylate

Concen: 0.465 ug/l

RT: 9.28 min Scan# 1344

Delta R.T. 0.12 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

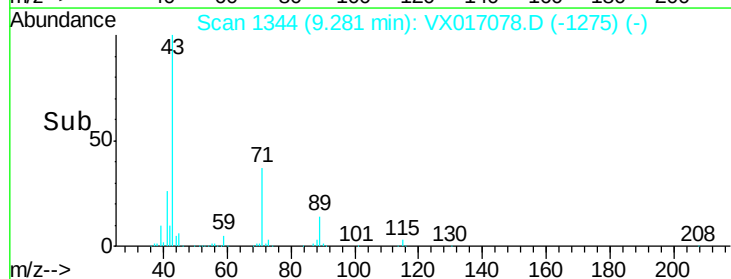
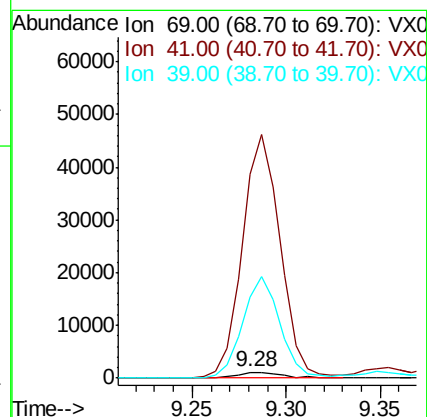
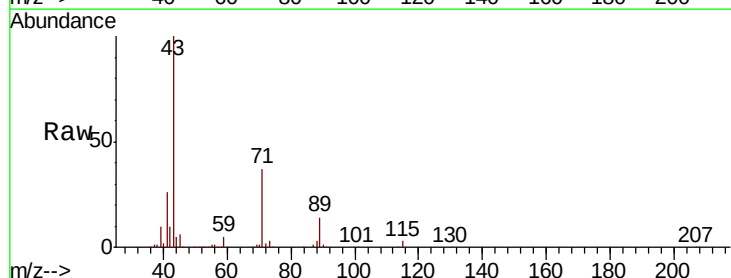
Tgt Ion: 69 Resp: 1861

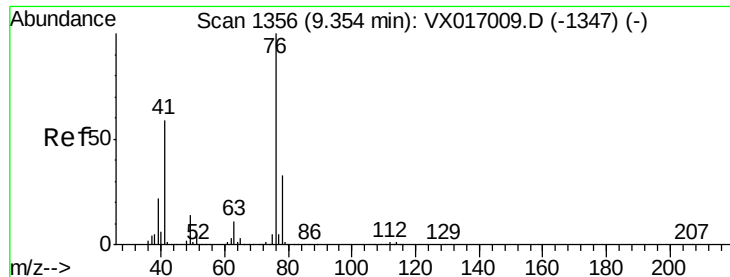
Ion Ratio Lower Upper

69 100

41 3451.0 53.6 80.4#

39 1419.8 28.2 42.2#

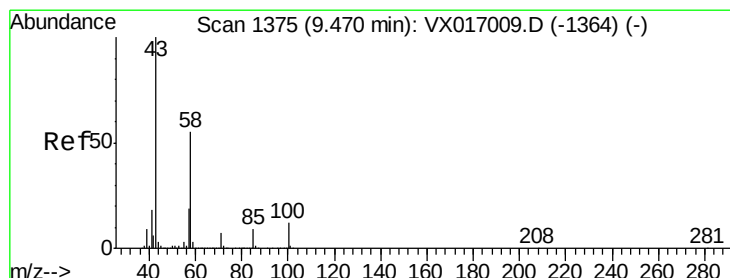
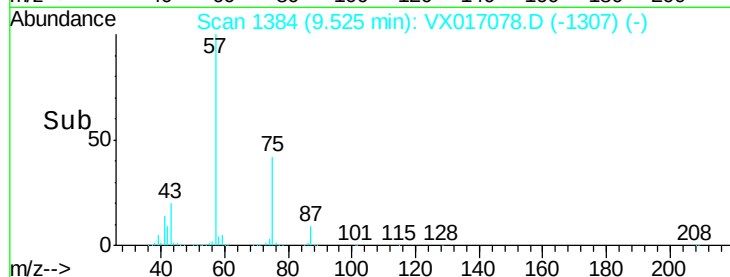
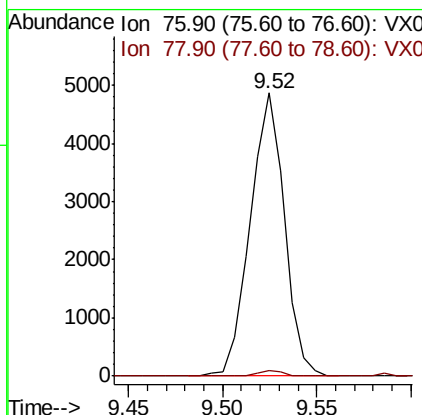
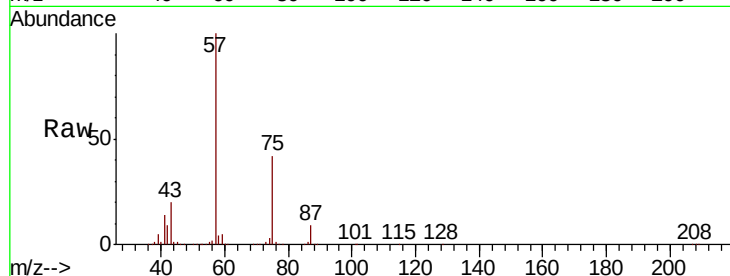




#57
 1,3-Dichloropropane
 Concen: 1.282 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

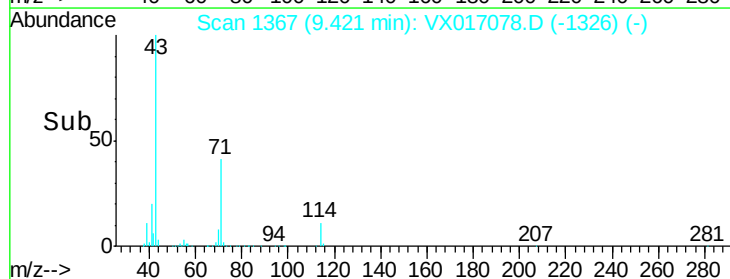
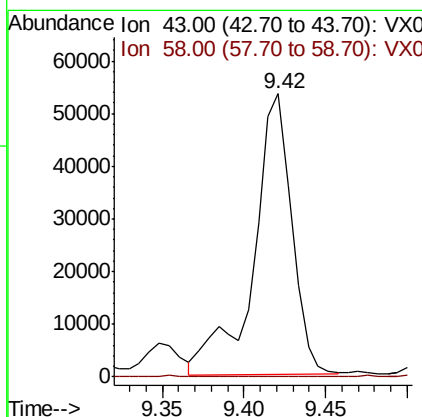
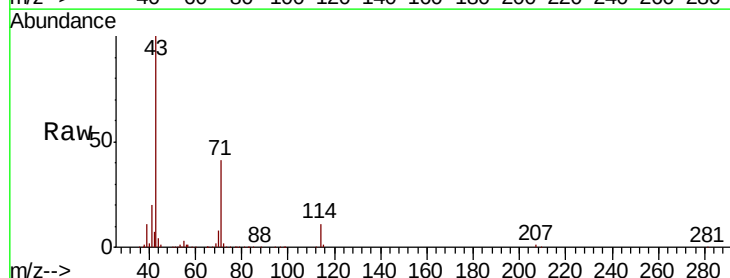
Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#14

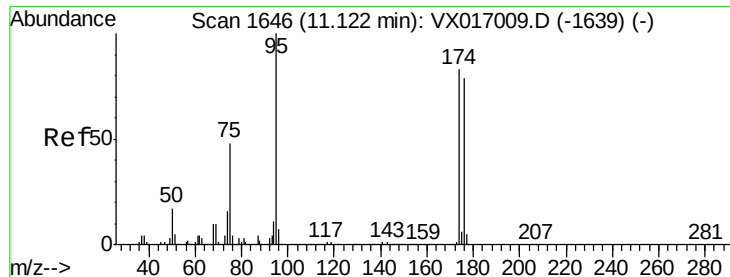
Tot Ion: 76 Resp: 6100
 Ion Ratio Lower Upper
 76 100
 78 1.4 25.9 38.9#



#59
 2-Hexanone
 Concen: 31.559 ug/l
 RT: 9.42 min Scan# 1367
 Delta R.T. -0.05 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Tgt Ion: 43 Resp: 86898
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.9 83.6#

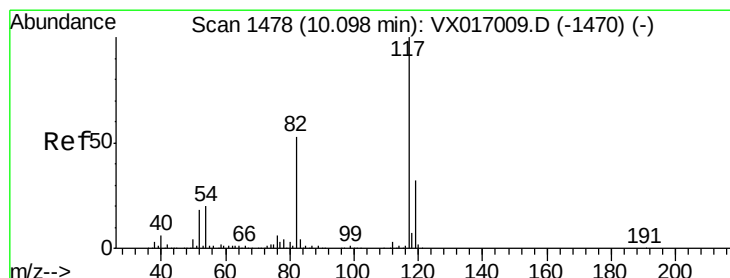
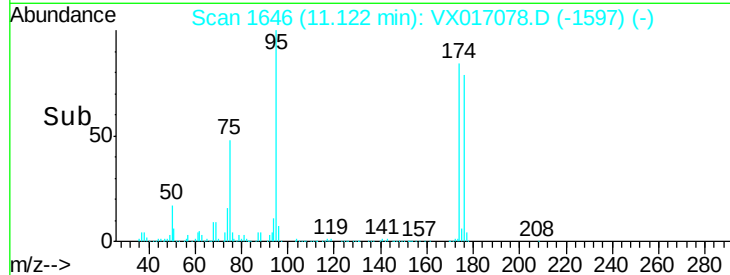
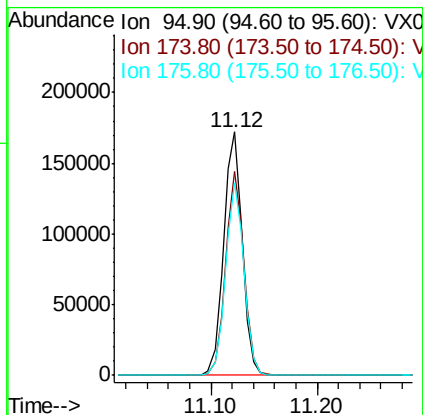
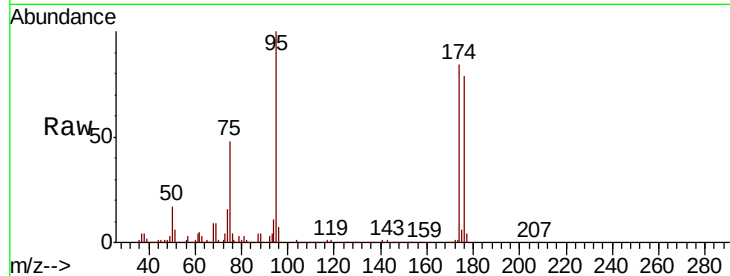




#62
4-Bromofluorobenzene
Concen: 57.723 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

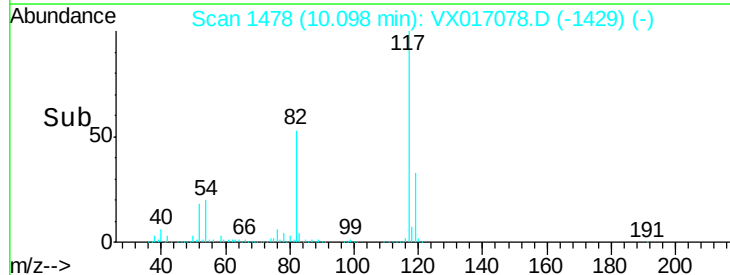
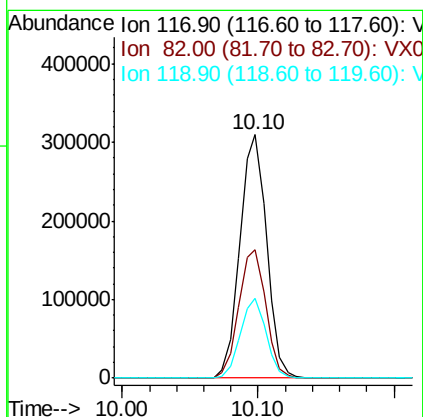
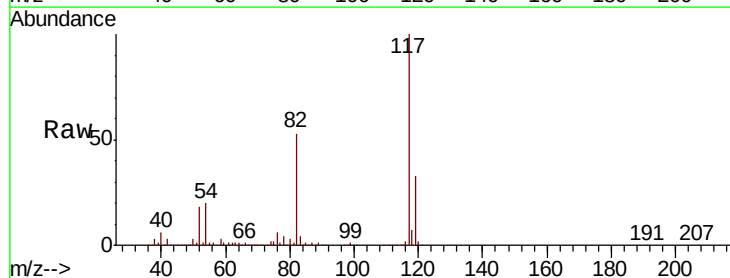
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#14

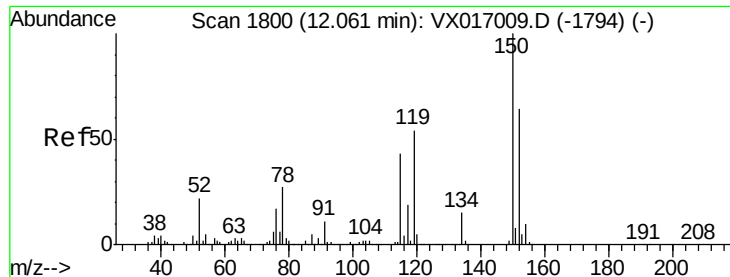
Tot Ion: 95 Resp: 209502
Ion Ratio Lower Upper
95 100
174 82.9 0.0 164.0
176 78.4 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017078.D
Acq: 01 Jul 2020 04:55

Tgt Ion: 117 Resp: 424434
Ion Ratio Lower Upper
117 100
82 53.0 42.6 63.8
119 33.0 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#14

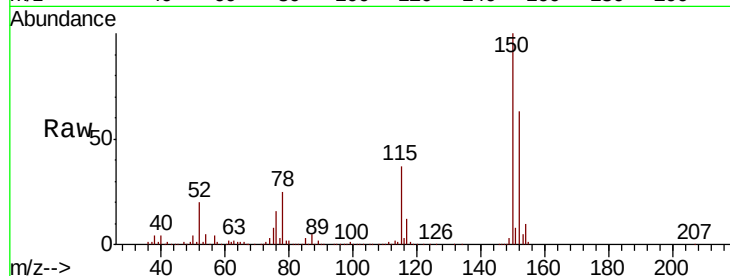
Tot Ion:152 Resp: 215199

Ion Ratio Lower Upper

152 100

115 57.7 40.9 122.7

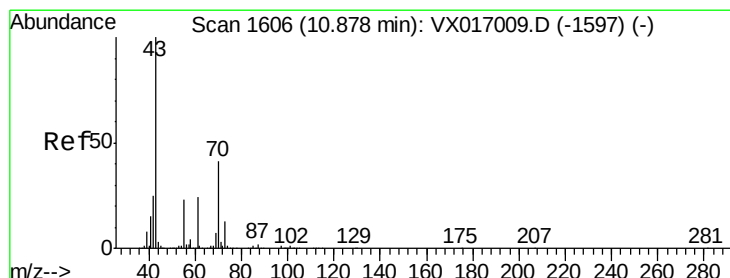
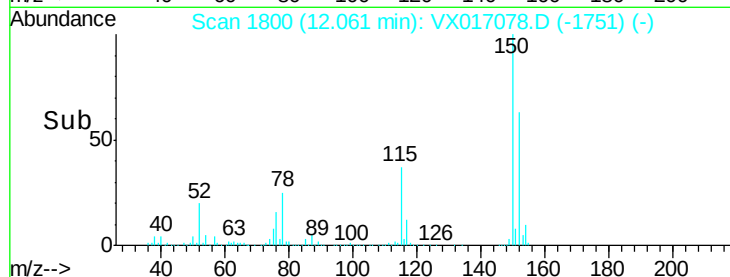
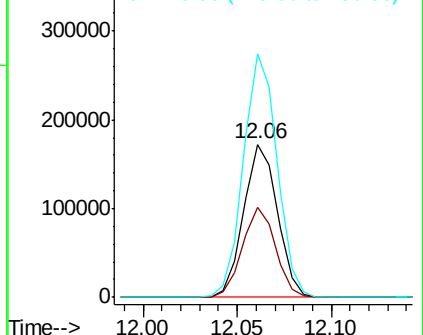
150 158.3 0.0 351.6



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



#74

N-ethyl acetate

Concen: 0.544 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Tgt Ion: 43 Resp: 3274

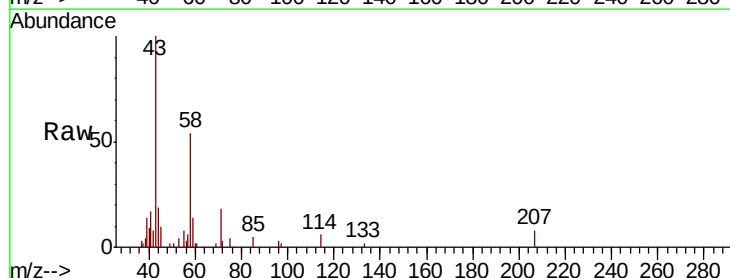
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 12.8 19.2 28.8#

61 0.0 19.6 29.4#

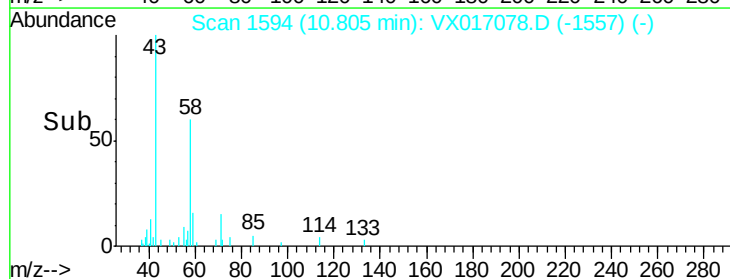
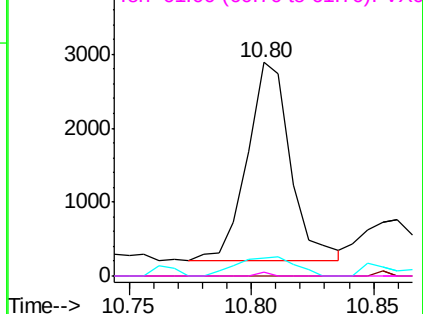


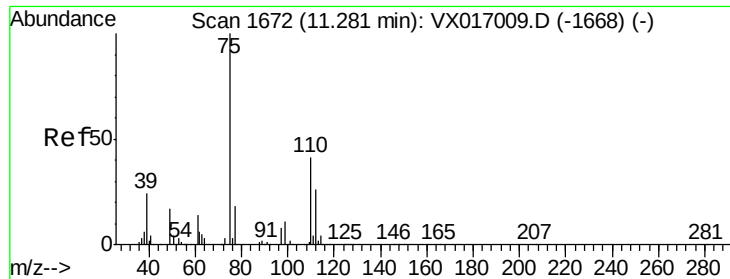
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

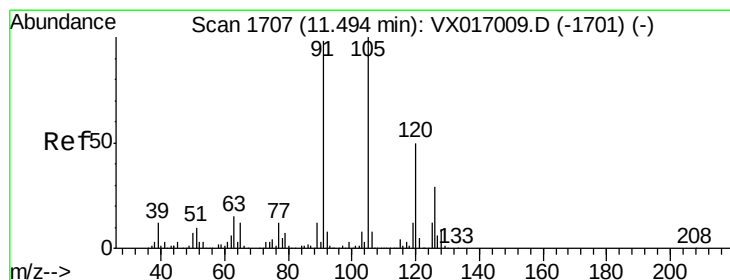
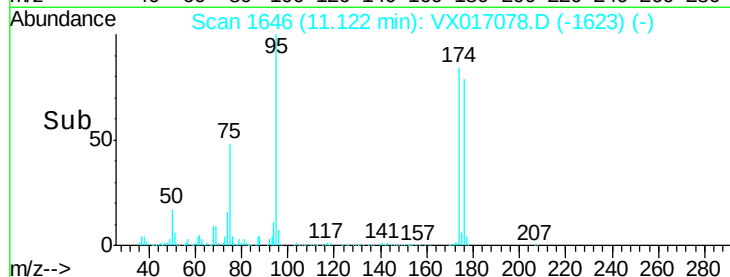
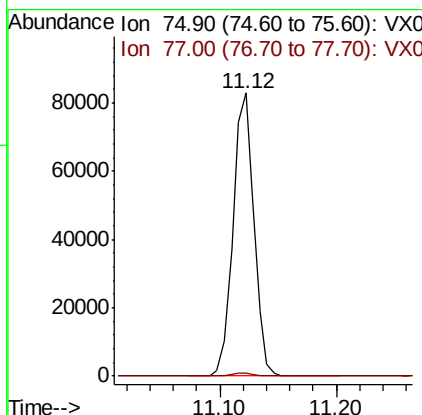
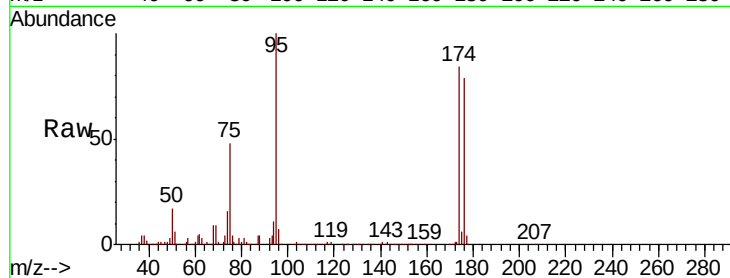




#76
 1,2,3-Trichloropropane
 Concen: 24.515 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

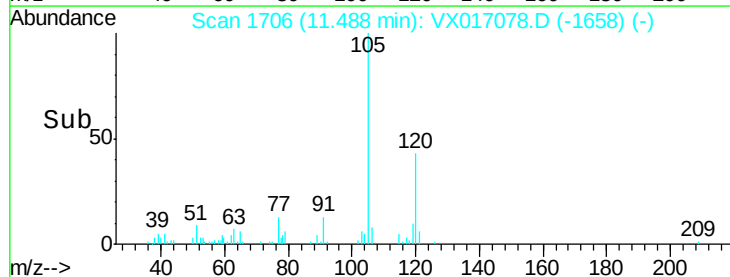
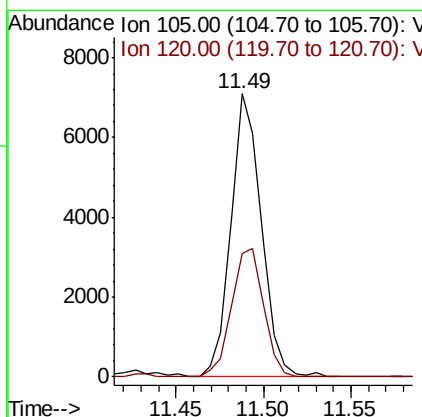
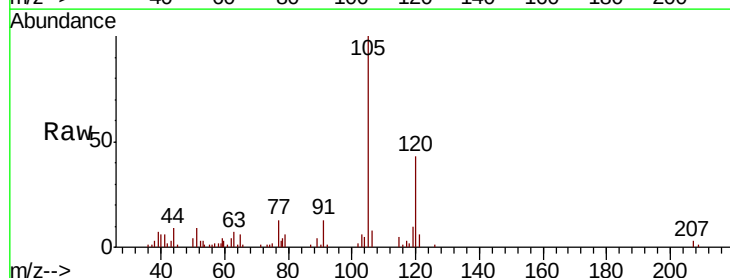
Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#14

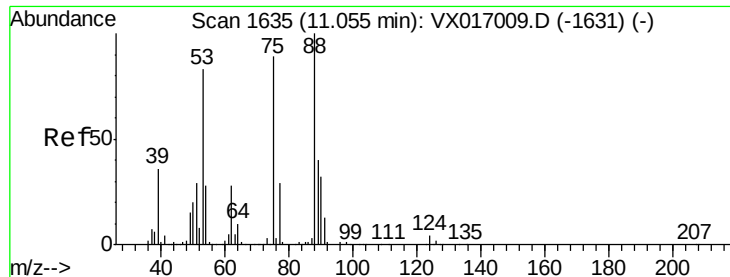
Tot Ion: 75 Resp: 103742
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.735 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.01 min
 Lab File: VX017078.D
 Acq: 01 Jul 2020 04:55

Tgt Ion: 105 Resp: 8589
 Ion Ratio Lower Upper
 105 100
 120 47.7 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 63.485 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#14

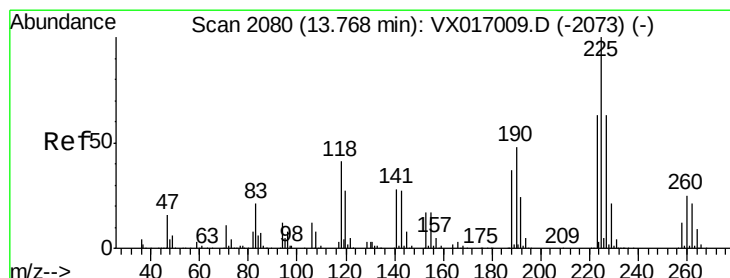
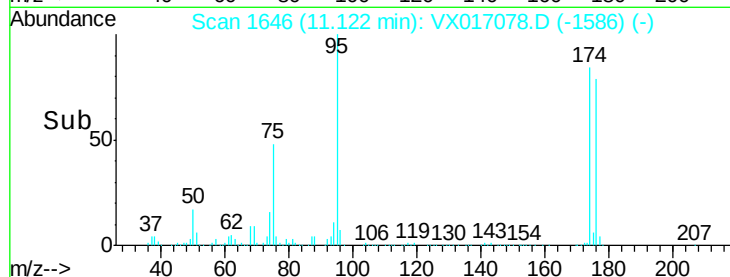
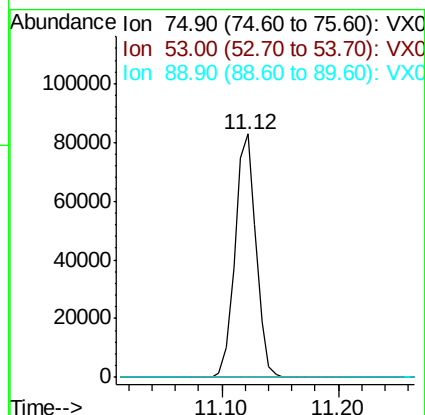
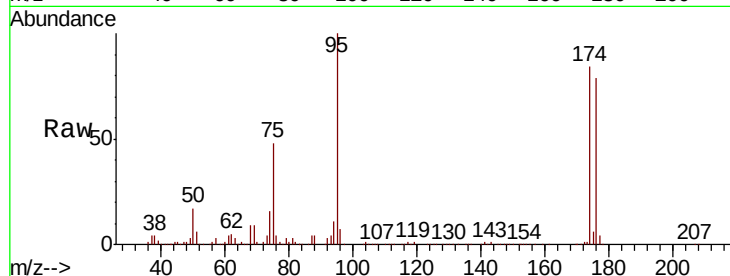
Tot Ion: 75 Resp: 103742

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#



#94

Hexachlorobutadiene

Concen: 0.870 ug/l

RT: 13.76 min Scan# 2078

Delta R.T. -0.01 min

Lab File: VX017078.D

Acq: 01 Jul 2020 04:55

Tgt Ion: 225 Resp: 44

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 45.5 33.1 99.2

