

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071420\
 Data File : VX017378.D
 Acq On : 14 Jul 2020 14:56
 Operator : JC/SP
 Sample : PB130122ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130122ZHE#12

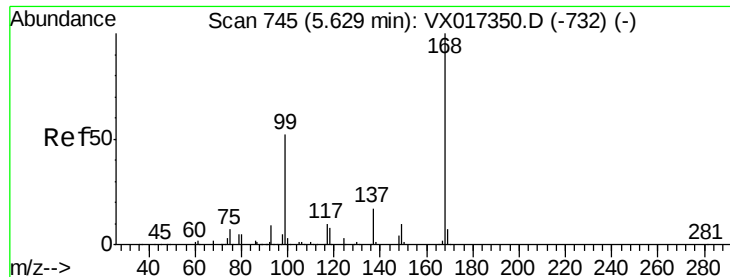
Quant Time: Jul 15 01:24:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	251954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	419843	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	460463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	244179	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	164272	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
35) Dibromofluoromethane	5.46	113	140085	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
50) Toluene-d8	8.70	98	532214	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
62) 4-Bromofluorobenzene	11.12	95	226310	55.85	ug/l	0.00
Spiked Amount			Recovery	=	111.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	323	0.209	ug/l #	27
8) Diethyl Ether	2.17	74	886	0.625	ug/l	80
10) Methyl Iodide	2.50	142	130	2.415	ug/l #	90
11) Tert butyl alcohol	3.01	59	1358	2.549	ug/l #	83
13) Acrolein	2.26	56	369	1.263	ug/l #	22
16) Acetone	2.42	43	34643	30.708	ug/l	99
18) Methyl Acetate	2.75	43	3110	1.116	ug/l #	90
20) Methylene Chloride	2.84	84	21220	7.709	ug/l	98
25) 2-Butanone	4.65	43	4982	2.780	ug/l	95
29) Tetrahydrofuran	5.09	42	598	0.516	ug/l #	31
31) Cyclohexane	5.62	56	5000	1.373	ug/l #	20
36) 1,1-Dichloropropene	5.63	75	18422	4.770	ug/l #	50
38) Carbon Tetrachloride	5.63	117	25759	5.697	ug/l #	17
43) Isopropyl Acetate	6.42	43	77284	12.110	ug/l	100
48) Methyl methacrylate	7.65	41	4851	1.584	ug/l #	13
49) 1,4-Dioxane	7.71	88	20	0.319	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	75280	19.346	ug/l #	53
54) cis-1,3-Dichloropropene	8.59	75	32357	6.577	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	6225	1.260	ug/l #	44
59) 2-Hexanone	9.42	43	73540	25.040	ug/l #	23
74) N-amyl acetate	10.81	43	3962	0.647	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	113158	25.079	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	4030	0.310	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	113158	63.620	ug/l #	11

(#) = 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. 0.00 min

Lab File: VX017378.D

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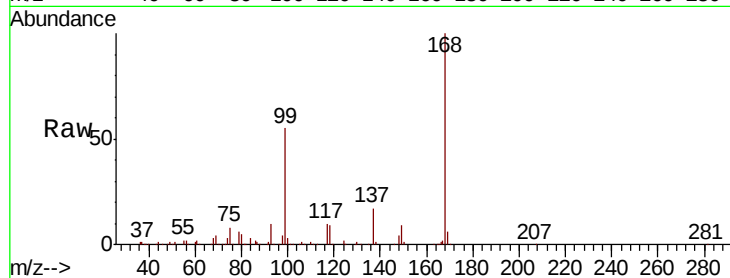
PB130122ZHE#12

Tot Ion:168 Resp: 251954

Ion Ratio Lower Upper

168 100

99 54.9 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

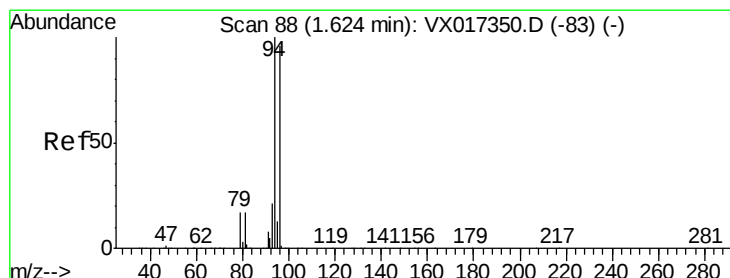
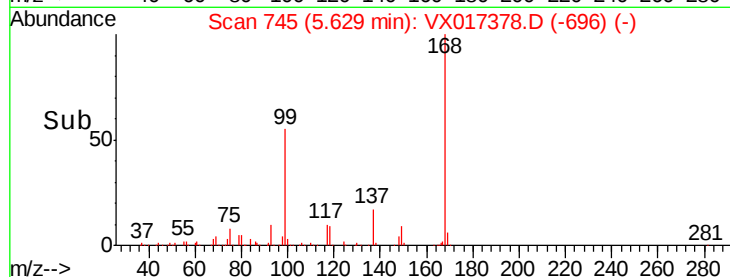
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.209 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017378.D

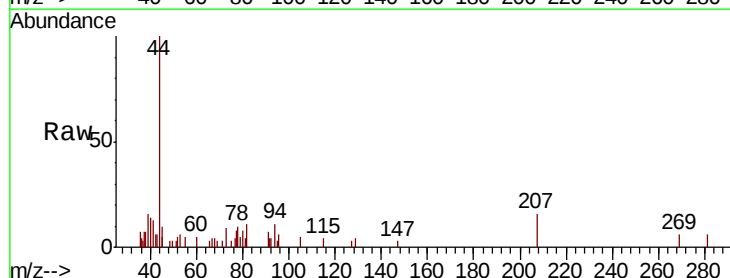
Acq: 14 Jul 2020 14:56

Tgt Ion: 94 Resp: 323

Ion Ratio Lower Upper

94 100

96 24.6 76.6 115.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

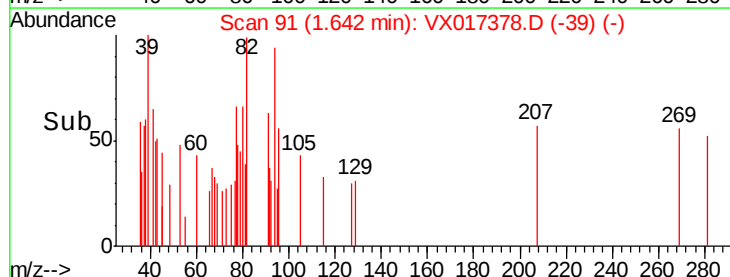
150

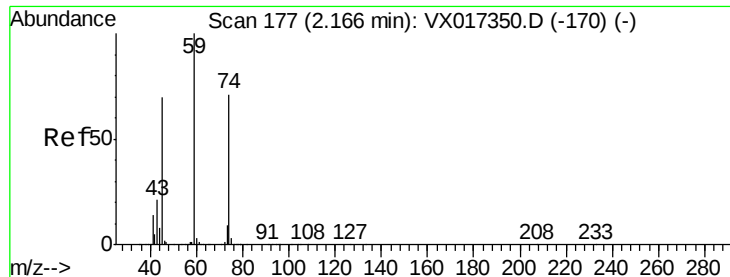
100

50

0

Time-->





#8

Diethyl Ether

Concen: 0.625 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

Instrument :

MSVOA_X

ClientSampleId :

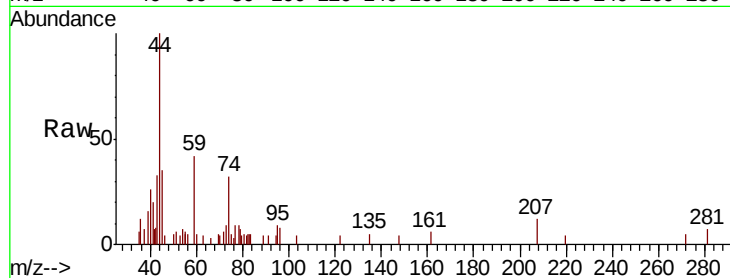
PB130122ZHE#12

Tot Ion: 74 Resp: 886

Ion Ratio Lower Upper

74 100

45 113.3 47.2 141.6

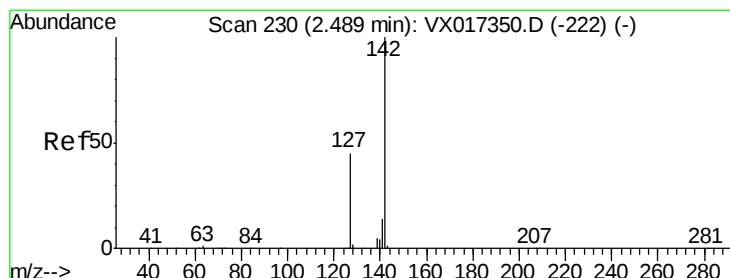
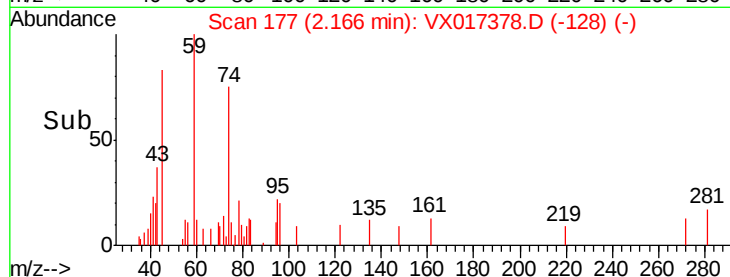


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

Time-->

2.15 2.20



#10

Methyl Iodide

Concen: 2.415 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

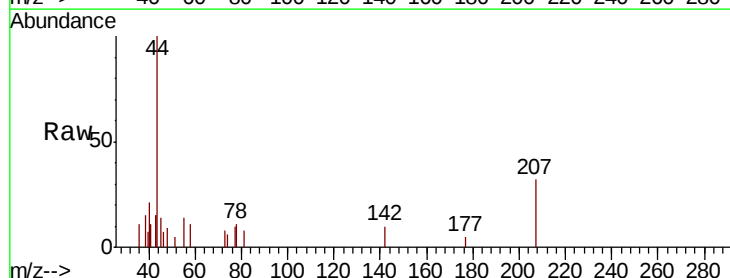
Tgt Ion:142 Resp: 130

Ion Ratio Lower Upper

142 100

127 44.6 36.8 55.2

141 0.0 11.4 17.0#



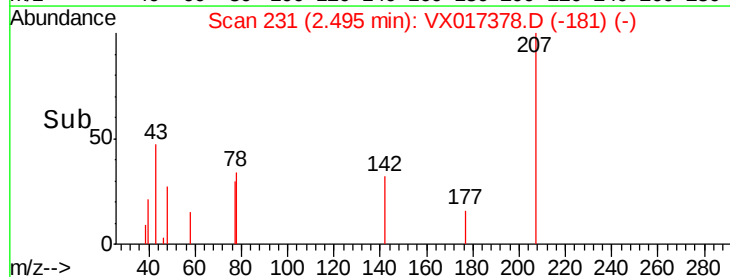
Abundance Ion 141.80 (141.50 to 142.50): V

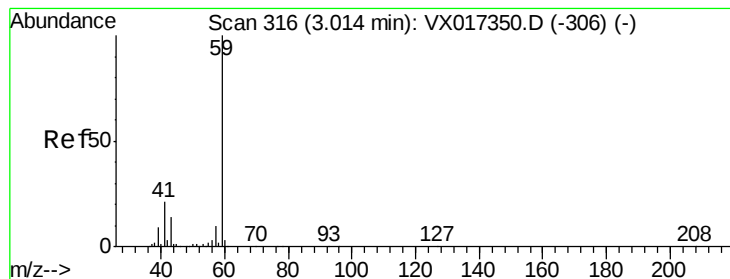
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time-->

2.46 2.48 2.50 2.52



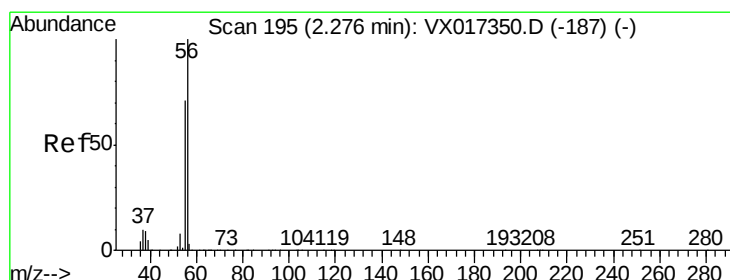
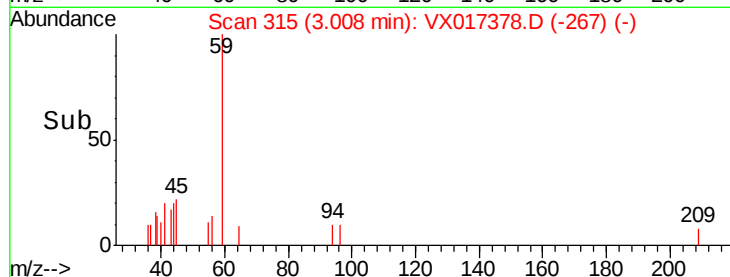
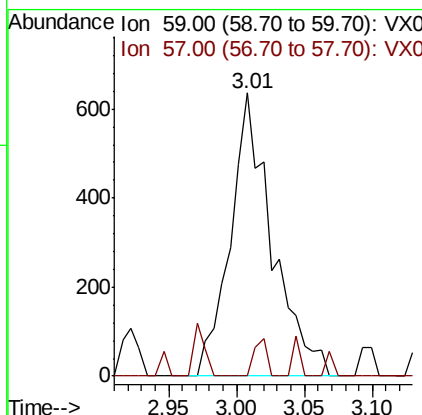
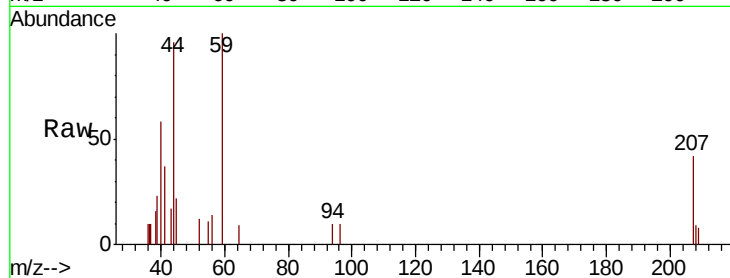


#11

Tert butyl alcohol
 Concen: 2.549 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017378.D
 Acq: 14 Jul 2020 14:56

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130122ZHE#12

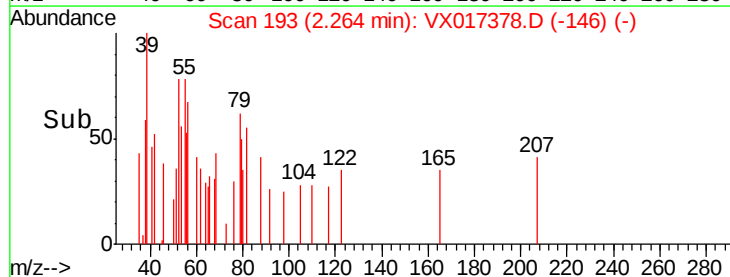
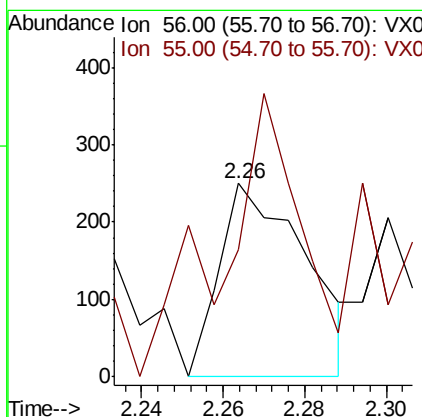
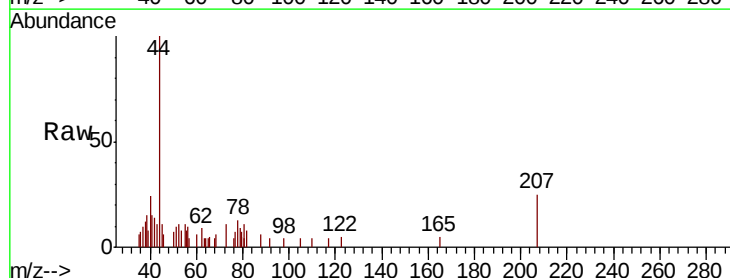
Tot Ion: 59 Resp: 1358
 Ion Ratio Lower Upper
 59 100
 57 4.1 8.3 12.5#

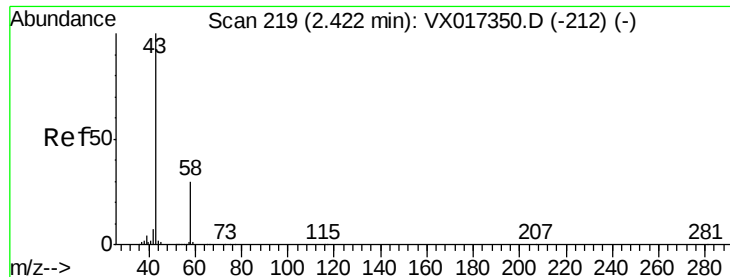


#13

Acrolein
 Concen: 1.263 ug/l
 RT: 2.26 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VX017378.D
 Acq: 14 Jul 2020 14:56

Tgt Ion: 56 Resp: 369
 Ion Ratio Lower Upper
 56 100
 55 136.0 57.1 85.7#





#16

Acetone

Concen: 30.708 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

Instrument :

MSVOA_X

ClientSampleId :

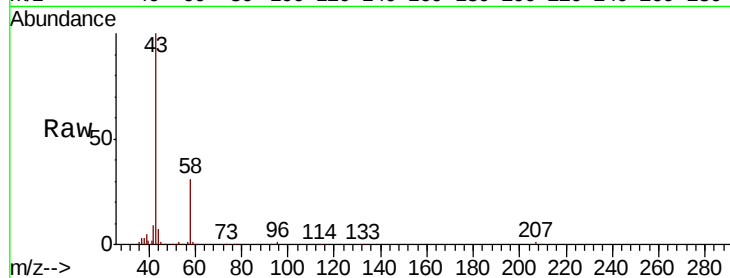
PB130122ZHE#12

Tot Ion: 43 Resp: 34643

Ion Ratio Lower Upper

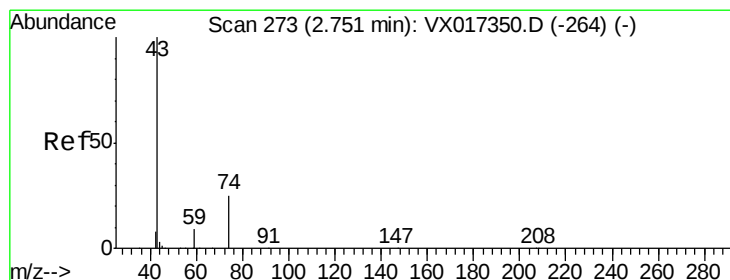
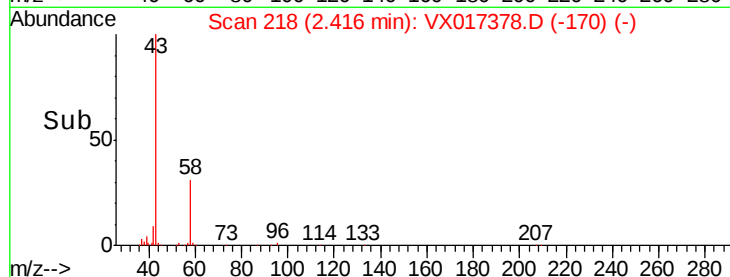
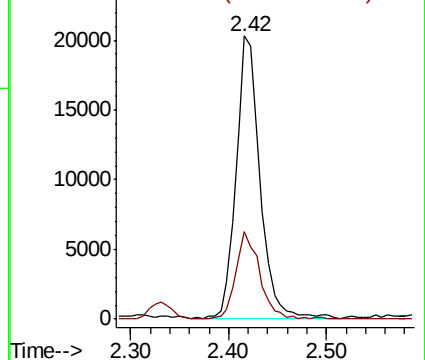
43 100

58 30.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.116 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX017378.D

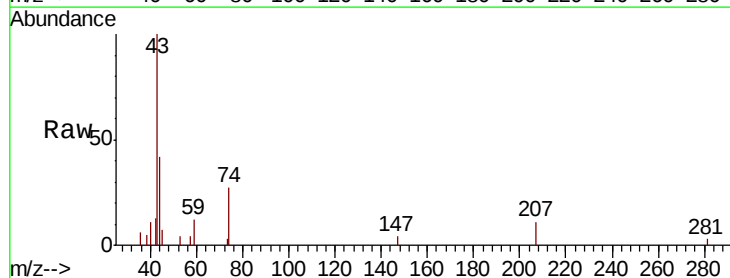
Acq: 14 Jul 2020 14:56

Tgt Ion: 43 Resp: 3110

Ion Ratio Lower Upper

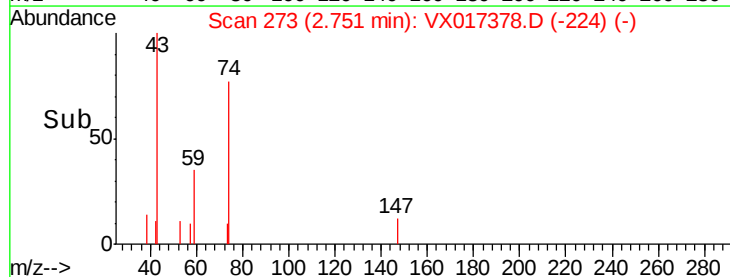
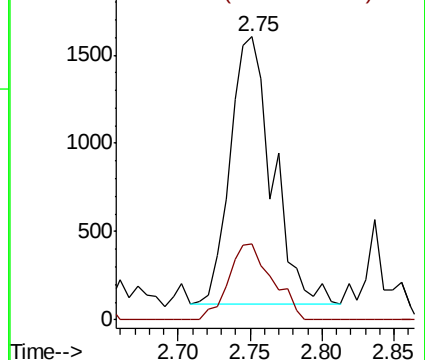
43 100

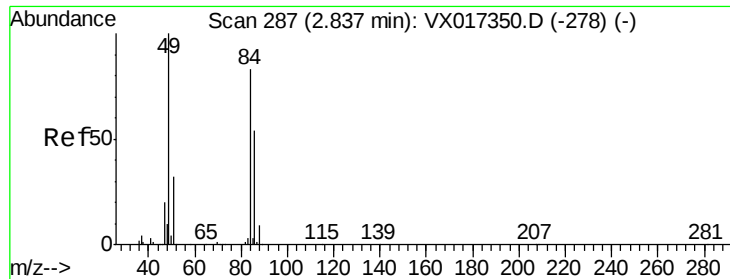
74 29.4 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

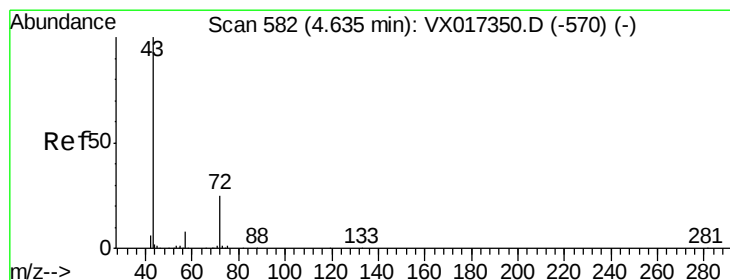
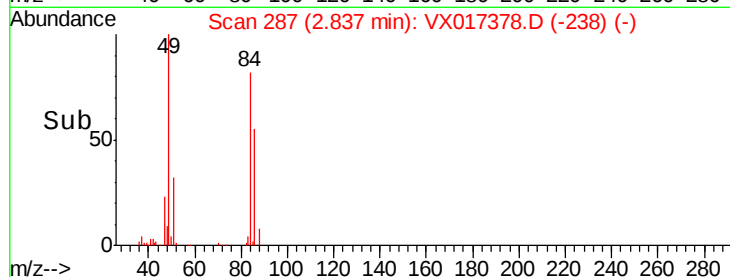
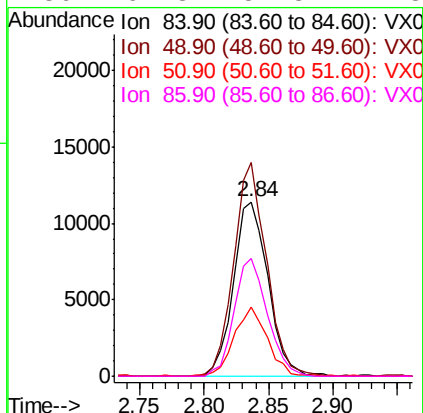
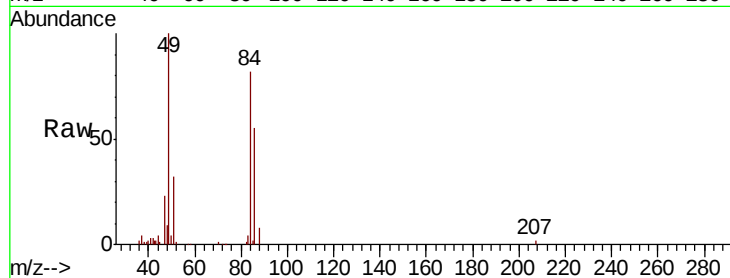




#20
Methvlene Chloride
Concen: 7.709 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

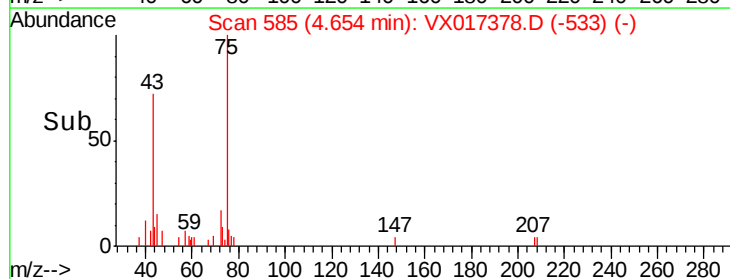
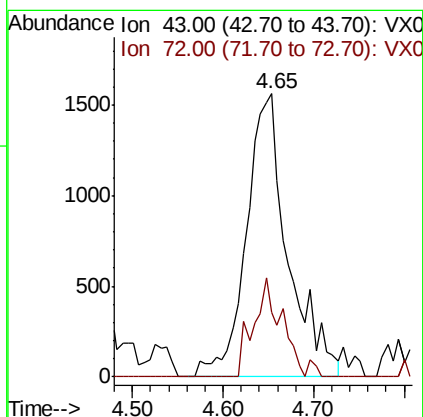
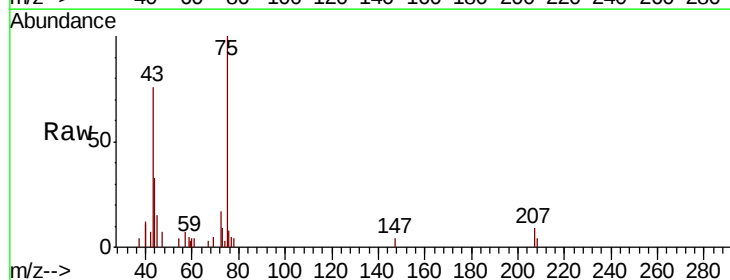
Instrument :
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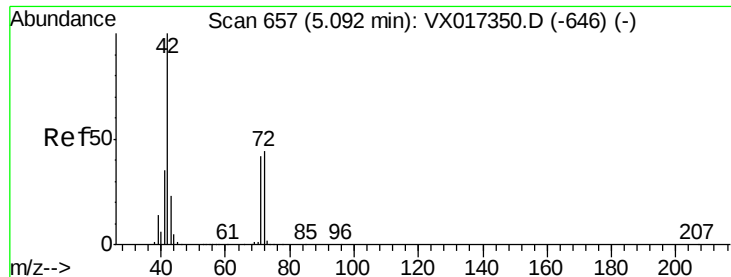
Tot Ion:	84	Resp:	21220
Ion	Ratio	Lower	Upper
84	100		
49	122.2	95.8	143.8
51	39.6	31.0	46.4
86	67.3	51.8	77.8



#25
2-Butanone
Concen: 2.780 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Tgt Ion:	43	Resp:	4982
Ion	Ratio	Lower	Upper
43	100		
72	22.9	20.4	30.6

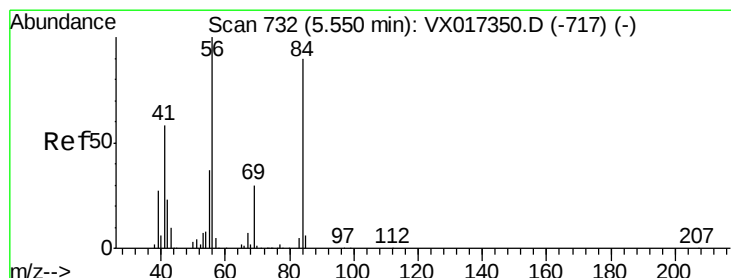
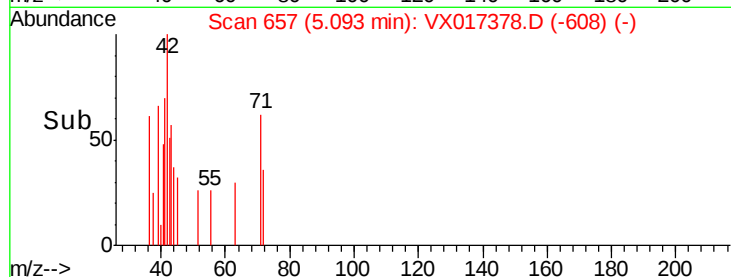
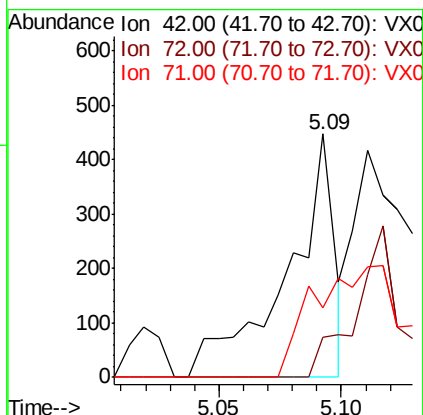
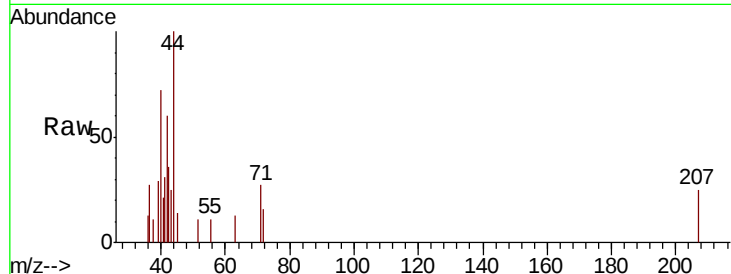




#29
Tetrahydrofuran
Concen: 0.516 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

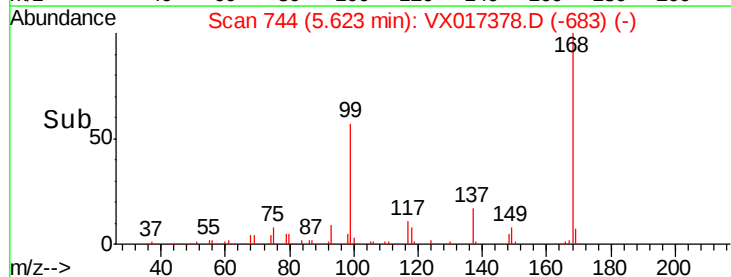
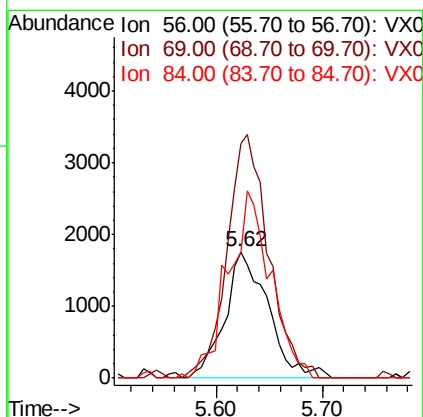
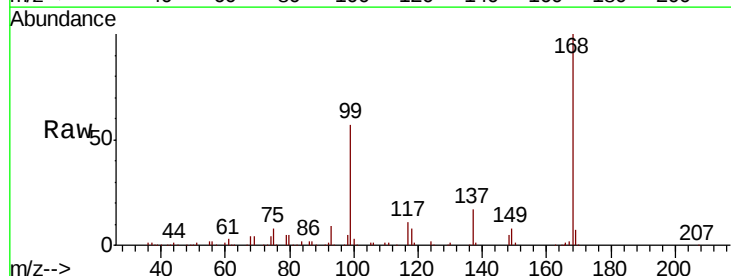
Instrument :
MSVOA_X
ClientSampleId :
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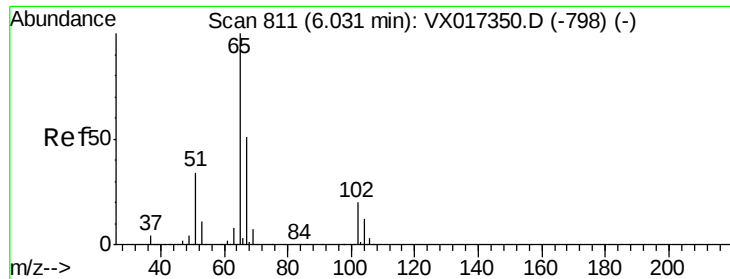
Tot Ion: 42 Resp: 598
Ion Ratio Lower Upper
42 100
72 0.0 37.2 55.8#
71 0.0 34.4 51.6#



#31
Cyclohexane
Concen: 1.373 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Tgt Ion: 56 Resp: 5000
Ion Ratio Lower Upper
56 100
69 186.1 23.7 35.5#
84 100.1 71.8 107.6





#33

1,2-Dichloroethane-d4

Concen: 51.948 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

Instrument :

MSVOA_X

ClientSampleId :

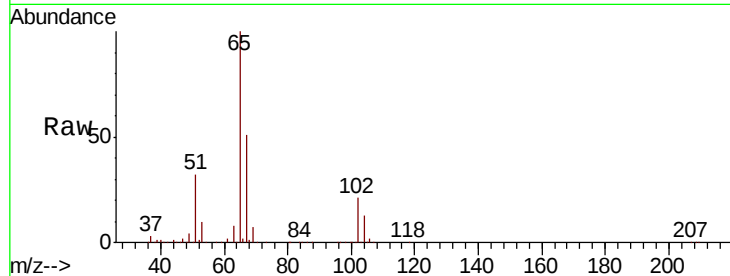
PB130122ZHE#12

Tot Ion: 65 Resp: 164272

Ion Ratio Lower Upper

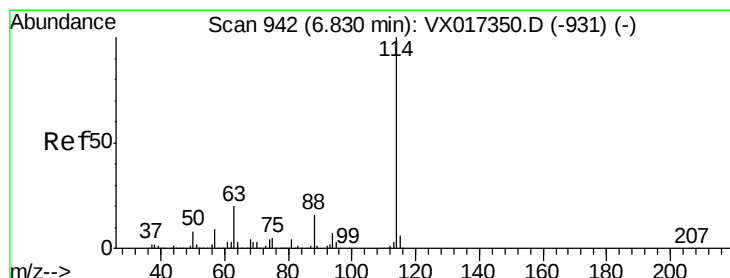
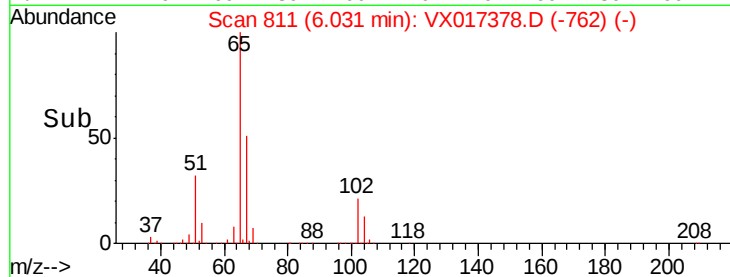
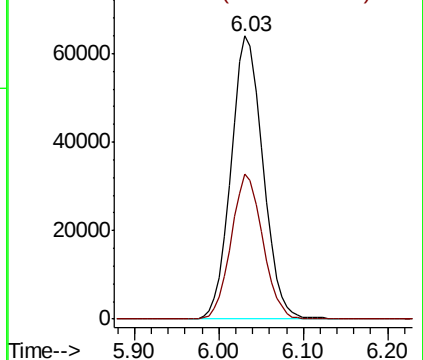
65 100

67 50.5 0.0 101.6



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: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

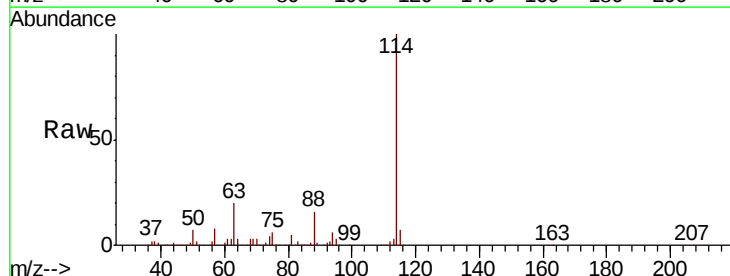
Tgt Ion: 114 Resp: 419843

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

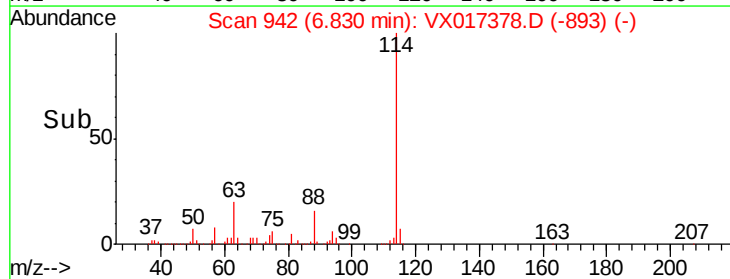
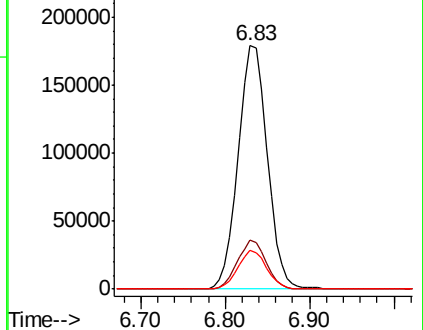
88 15.9 0.0 32.8

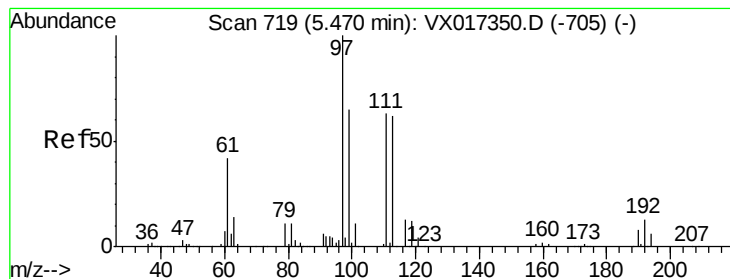


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.533 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

Instrument :

MSVOA_X

ClientSampleId :

PB130122ZHE#12

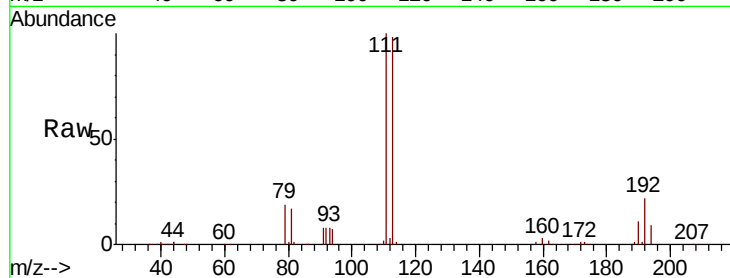
Tot Ion:113 Resp: 140085

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

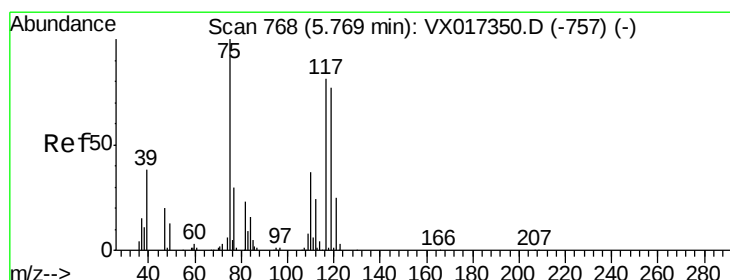
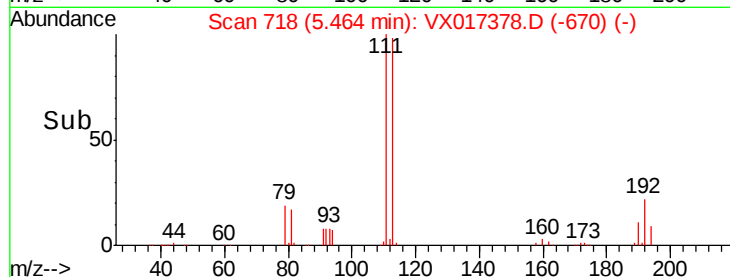
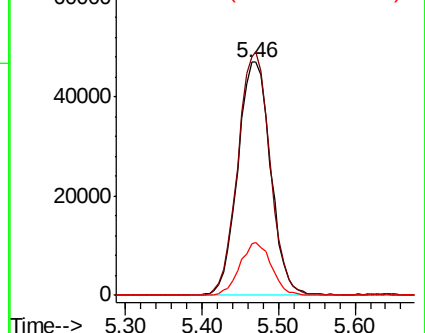
192 21.7 17.2 25.8



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: 4.770 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

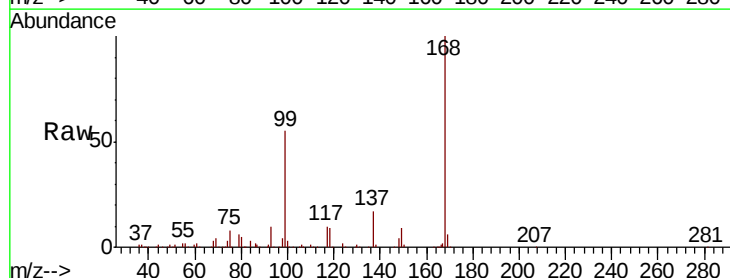
Tgt Ion: 75 Resp: 18422

Ion Ratio Lower Upper

75 100

110 10.7 18.6 55.8#

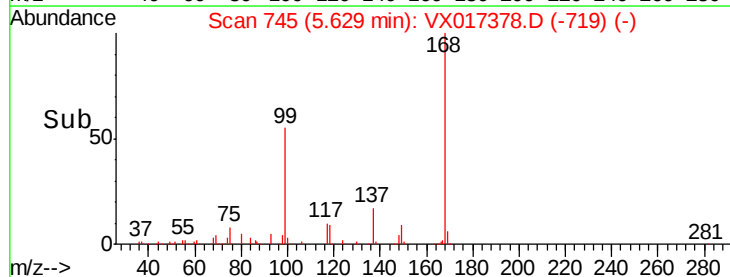
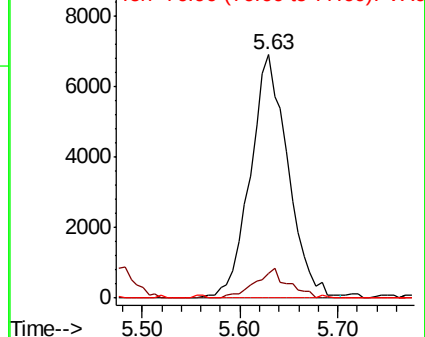
77 0.0 24.9 37.3#

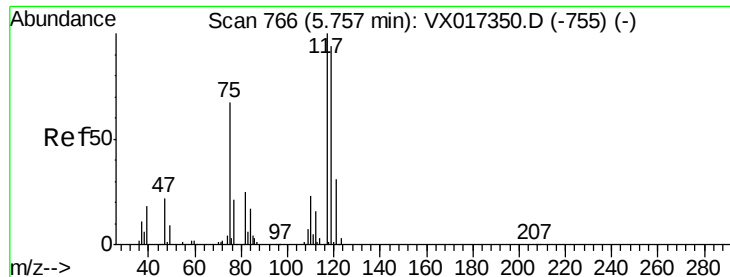


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

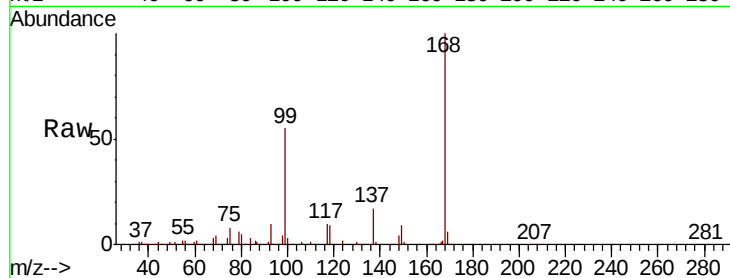




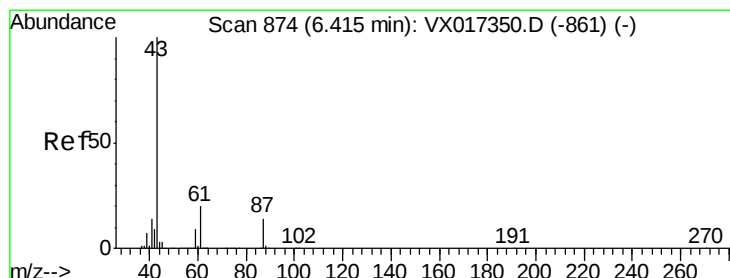
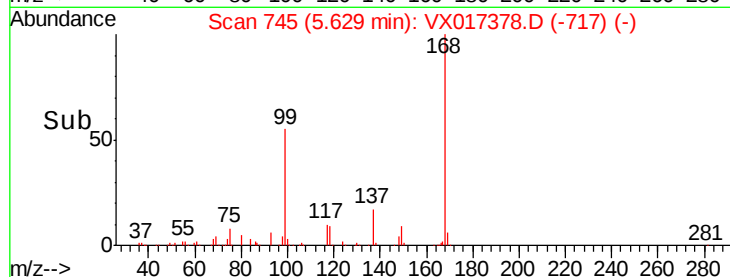
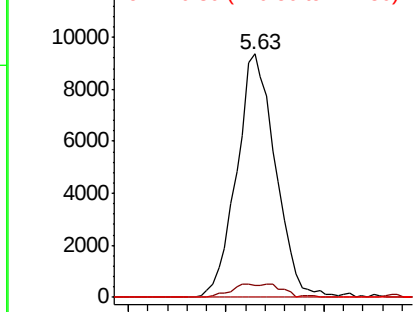
#38
Carbon Tetrachloride
Concen: 5.697 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Instrument :
MSVOA_X
ClientSampleId :
PB130122ZHE#12

Tot Ion:117 Resp: 25759
Ion Ratio Lower Upper
117 100
119 4.7 74.7 112.1#
121 0.0 24.5 36.7#

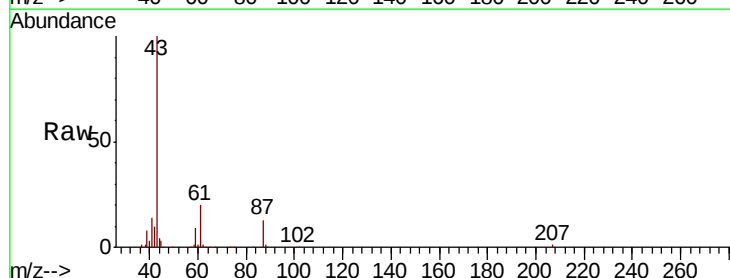


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

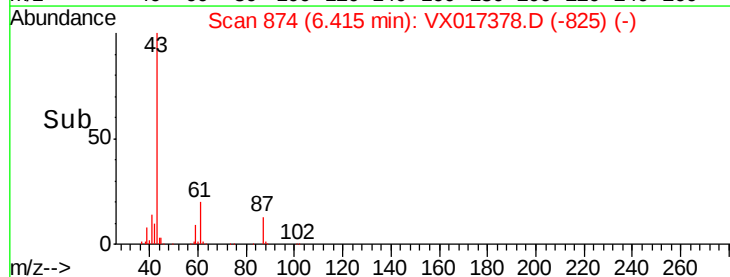
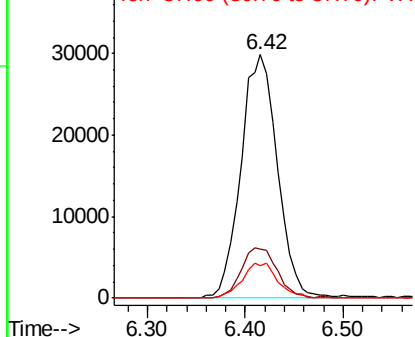


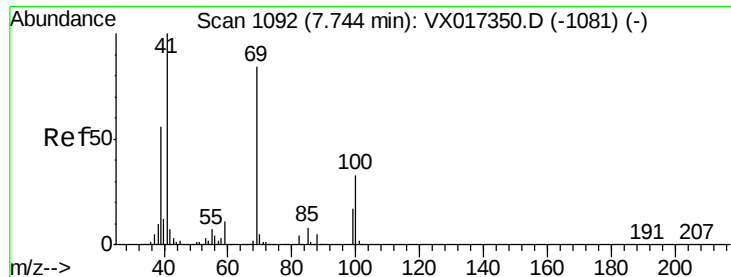
#43
Isopropyl Acetate
Concen: 12.110 ug/l
RT: 6.42 min Scan# 874
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Tgt Ion: 43 Resp: 77284
Ion Ratio Lower Upper
43 100
61 20.6 16.4 24.6
87 14.0 11.2 16.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

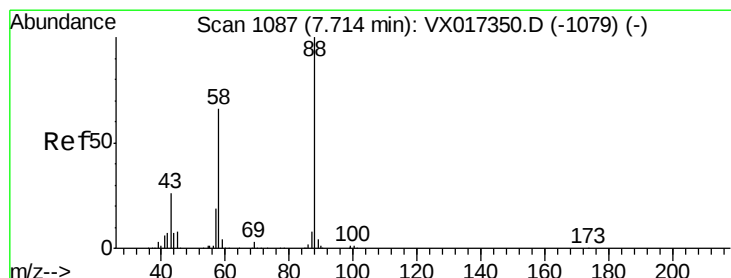
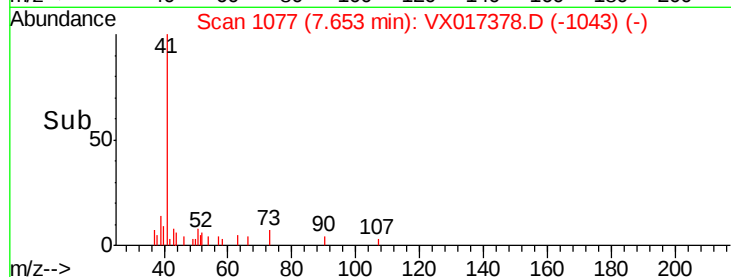
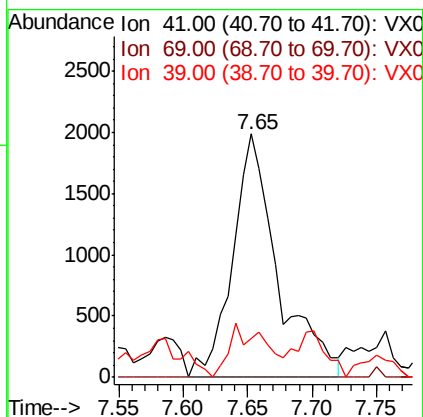
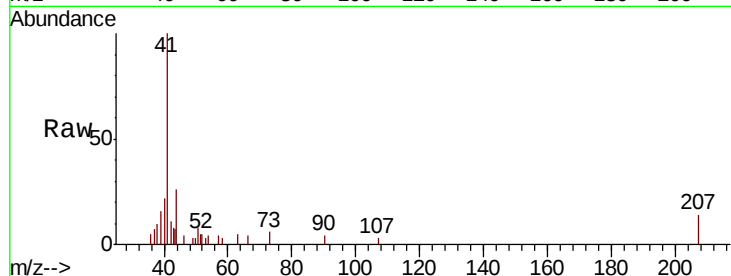




#48
Methvl methacrylate
Concen: 1.584 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

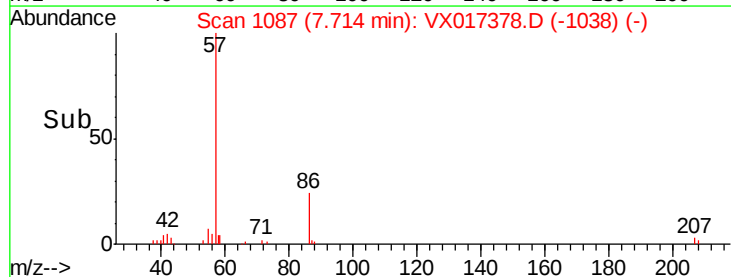
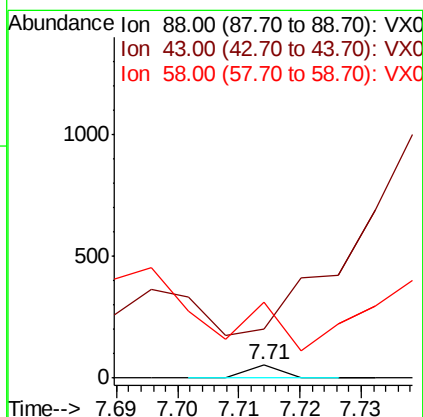
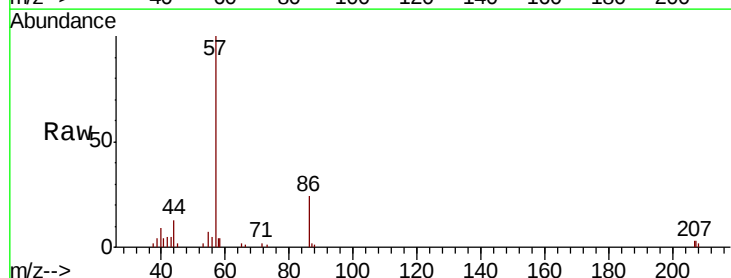
Instrument :
MSVOA_X
ClientSampleId :
PB130122ZHE#12

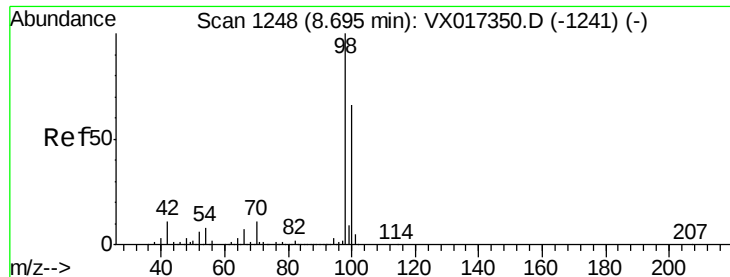
Tot Ion: 41 Resp: 4851
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 45.1 67.7#



#49
1,4-Dioxane
Concen: 0.319 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 25.6 38.4#
58 3000.0 53.9 80.9#





#50

Toluene-d8

Concen: 52.170 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

Instrument :

MSVOA_X

ClientSampleId :

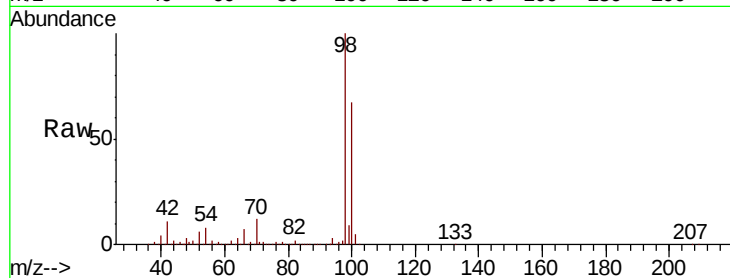
PB130122ZHE#12

Tot Ion: 98 Resp: 532214

Ion Ratio Lower Upper

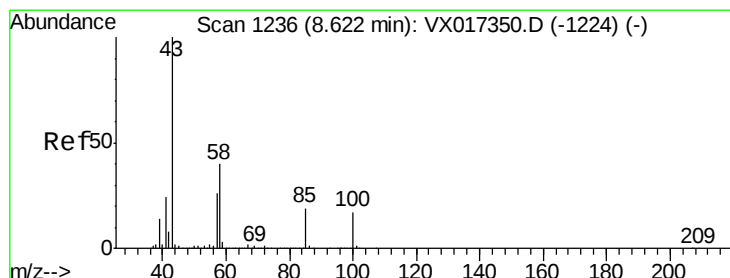
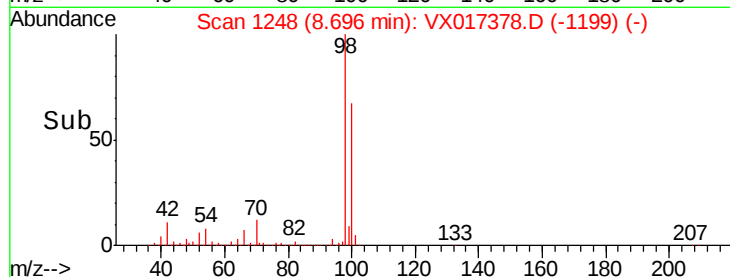
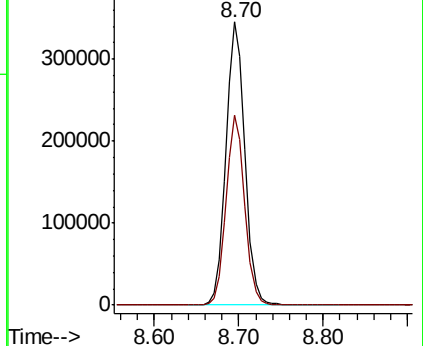
98 100

100 66.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 19.346 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017378.D

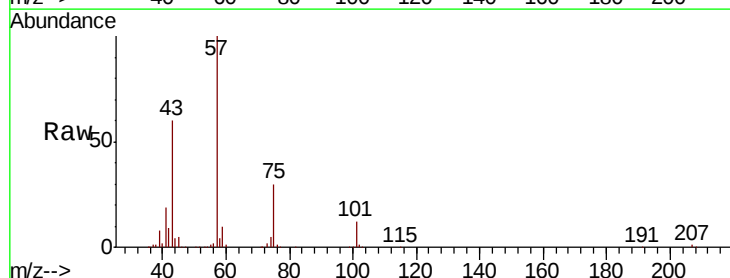
Acq: 14 Jul 2020 14:56

Tgt Ion: 43 Resp: 75280

Ion Ratio Lower Upper

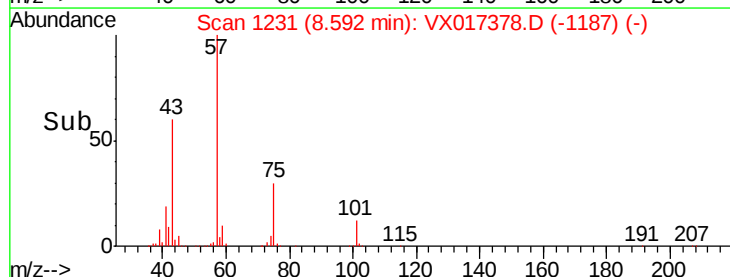
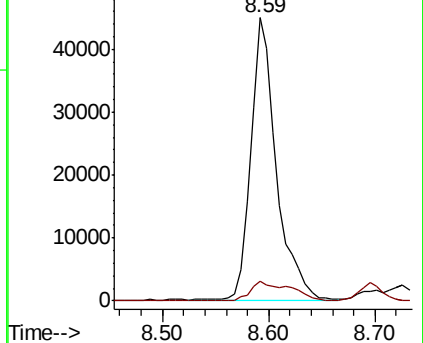
43 100

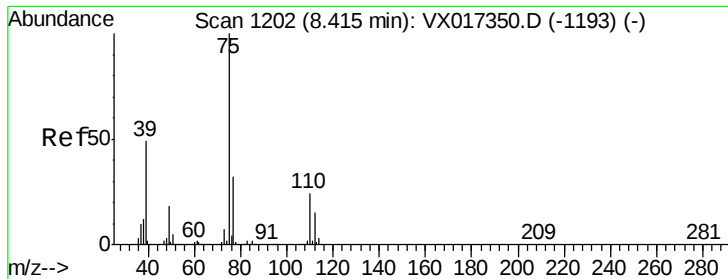
58 10.9 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



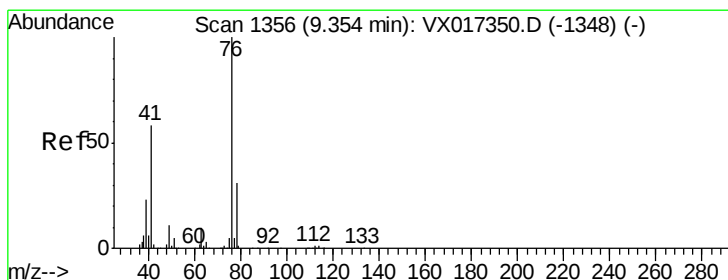
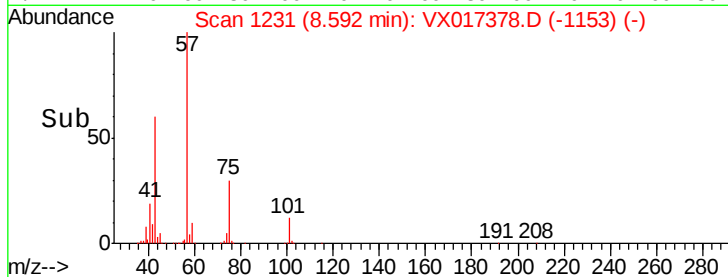
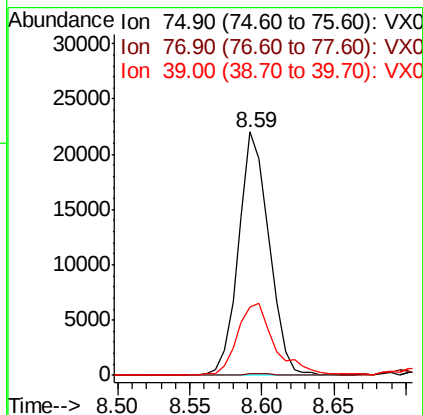
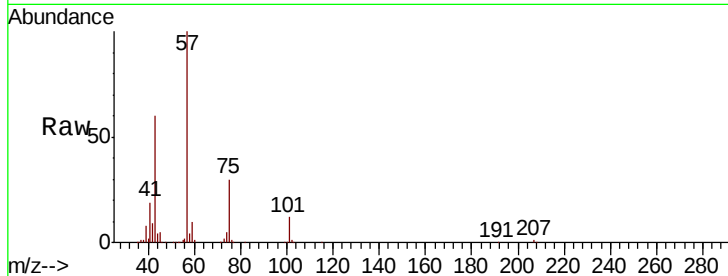


#54

cis-1,3-Dichloropropene
 Concen: 6.577 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017378.D
 Acq: 14 Jul 2020 14:56

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130122ZHE#12

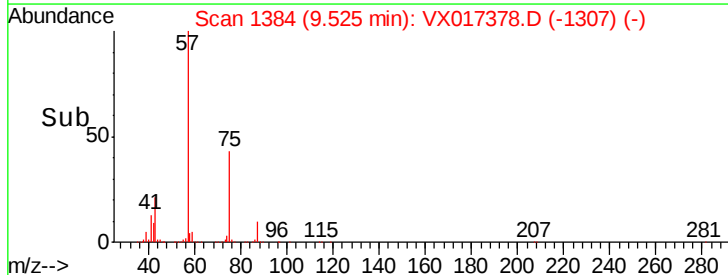
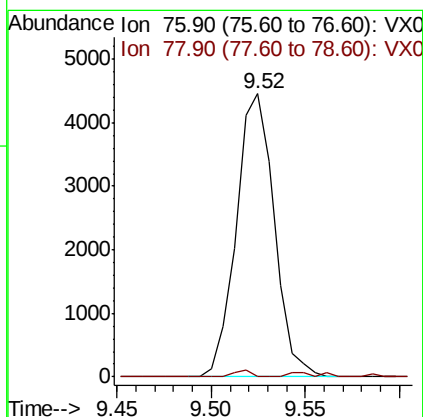
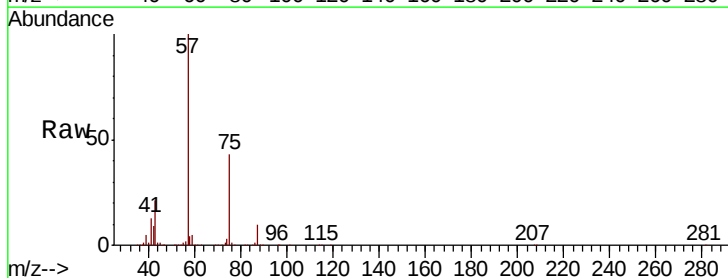
Tot Ion: 75 Resp: 32357
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.3 37.9#
 39 28.2 38.9 58.3#

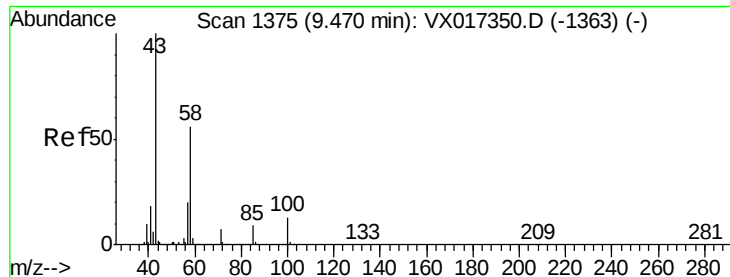


#57

1,3-Dichloropropane
 Concen: 1.260 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX017378.D
 Acq: 14 Jul 2020 14:56

Tgt Ion: 76 Resp: 6225
 Ion Ratio Lower Upper
 76 100
 78 1.1 25.8 38.6#

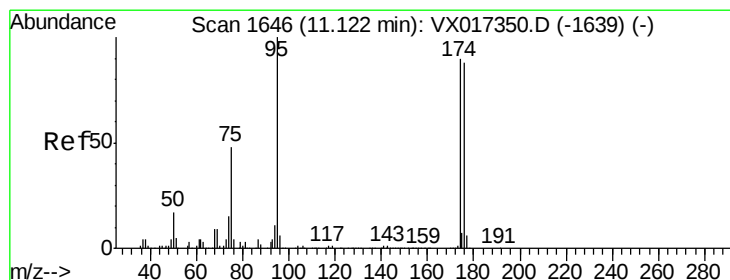
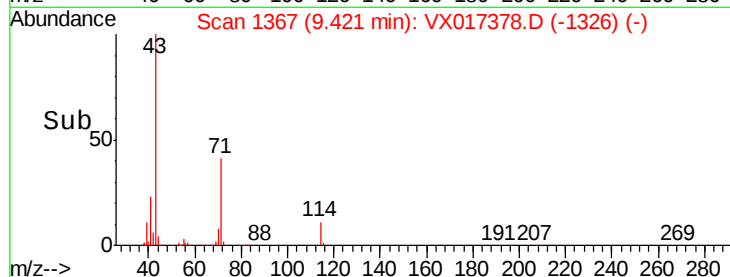
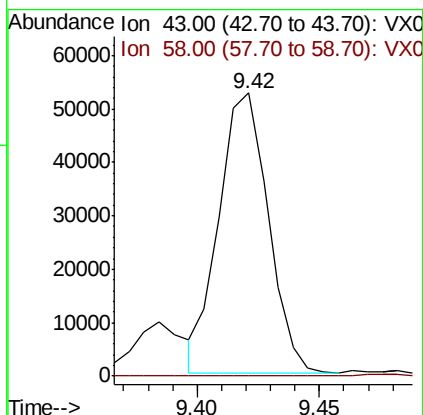
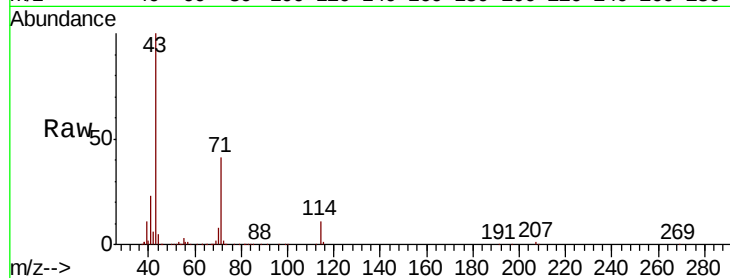




#59
2-Hexanone
Concen: 25.040 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

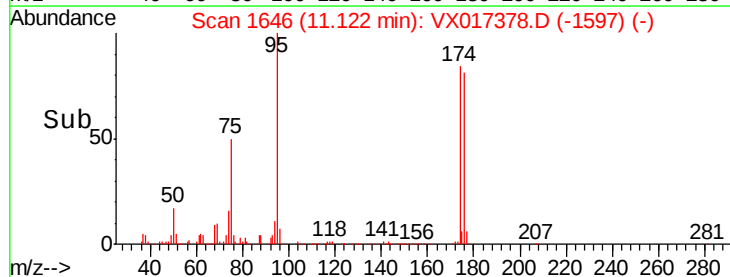
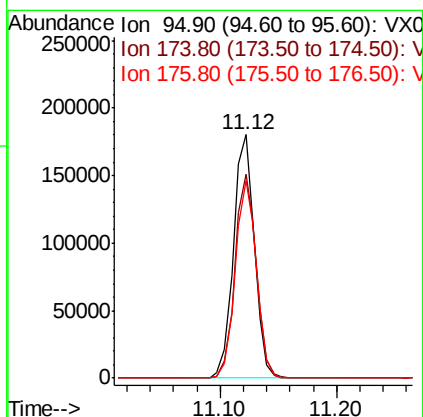
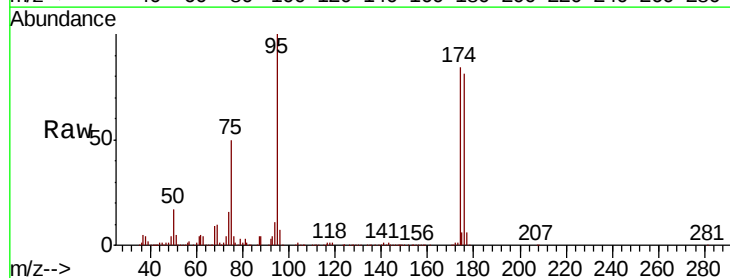
Instrument :
MSVOA_X
ClientSampleId :
PB130122ZHE#12

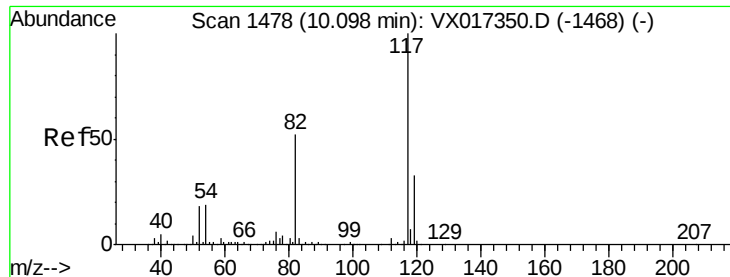
Tot Ion: 43 Resp: 73540
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 55.848 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Tgt Ion: 95 Resp: 226310
Ion Ratio Lower Upper
95 100
174 84.7 0.0 175.8
176 81.7 0.0 164.6

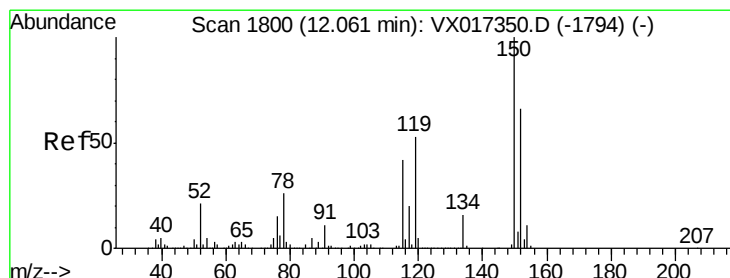
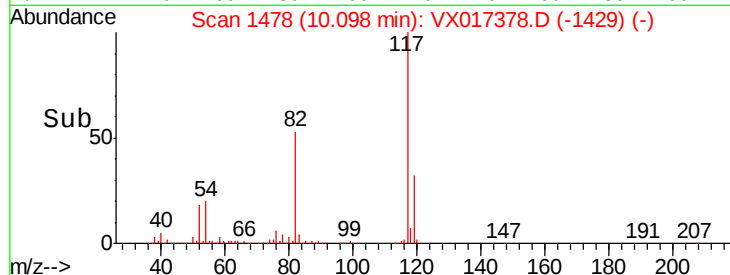
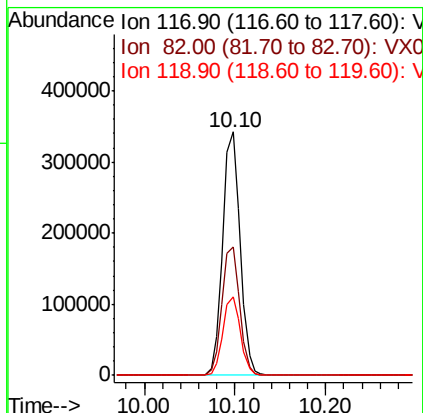
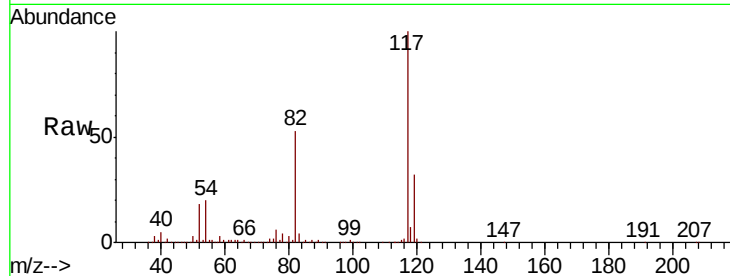




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

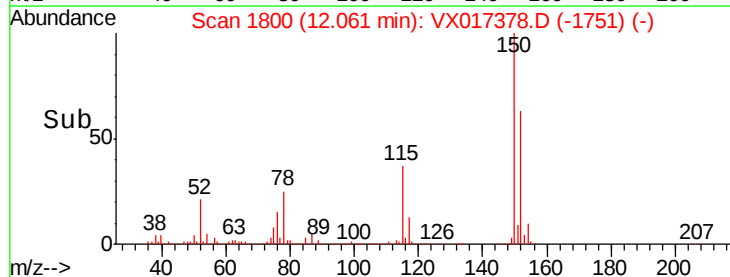
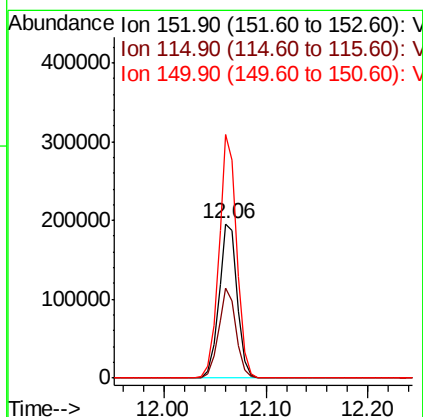
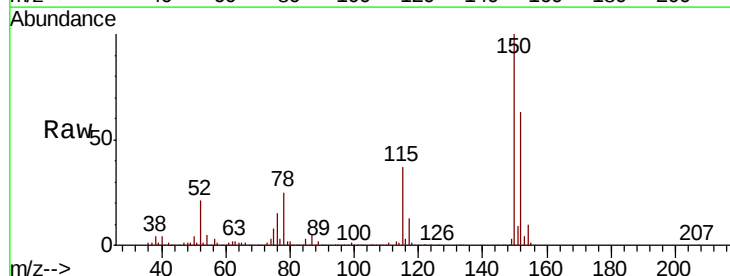
Instrument :
MSVOA_X
ClientSampleId :
PB130122ZHE#12

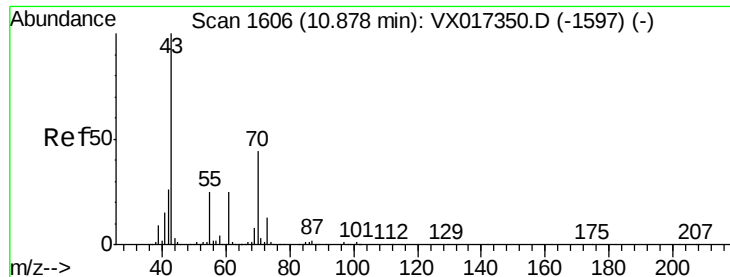
Tot Ion:117 Resp: 460463
Ion Ratio Lower Upper
117 100
82 52.9 42.0 63.0
119 32.2 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017378.D
Acq: 14 Jul 2020 14:56

Tgt Ion:152 Resp: 244179
Ion Ratio Lower Upper
152 100
115 56.1 39.9 119.7
150 154.0 0.0 343.4





#74

N-amvl acetate

Concen: 0.647 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017378.D

Acq: 14 Jul 2020 14:56

Instrument :

MSVOA_X

ClientSampleId :

PB130122ZHE#12

Tot Ion: 43 Resp: 3962

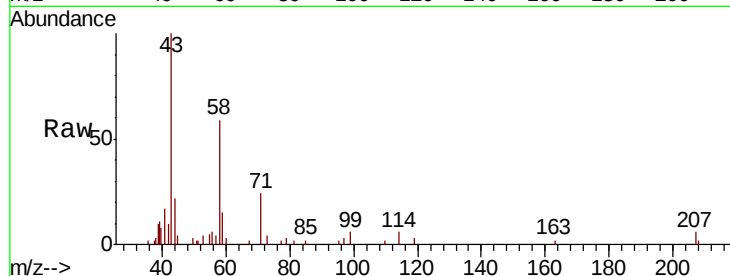
Ion Ratio Lower Upper

43 100

70 0.0 35.7 53.5#

55 10.9 20.3 30.5#

61 0.0 20.0 30.0#

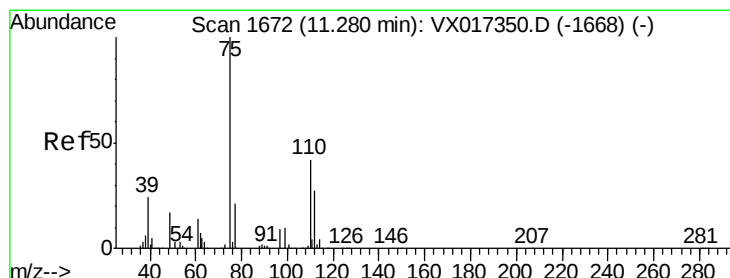
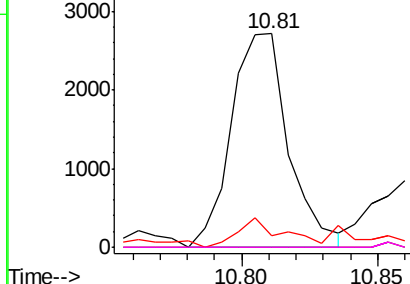
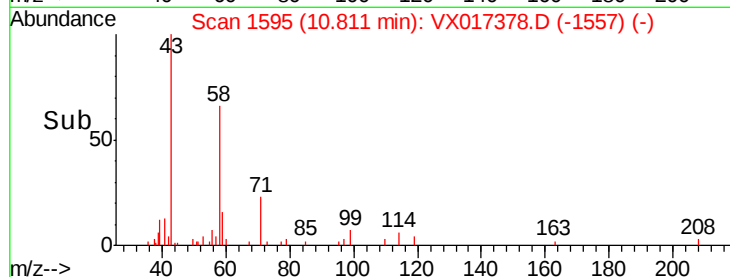


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.079 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017378.D

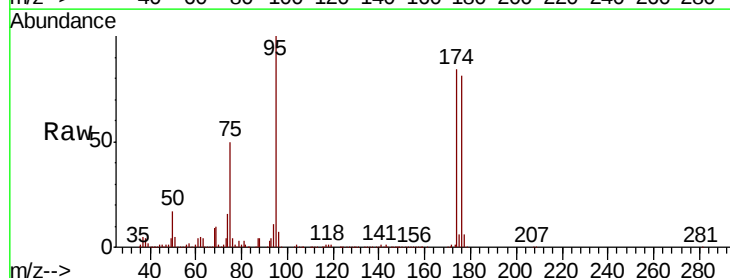
Acq: 14 Jul 2020 14:56

Tgt Ion: 75 Resp: 113158

Ion Ratio Lower Upper

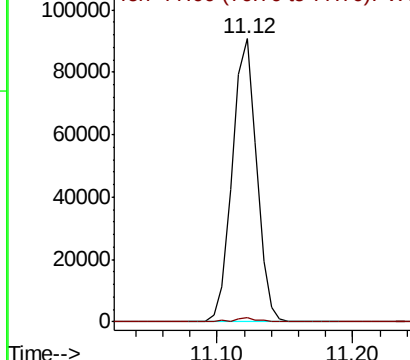
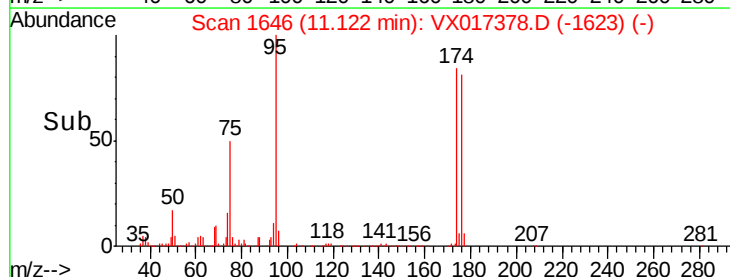
75 100

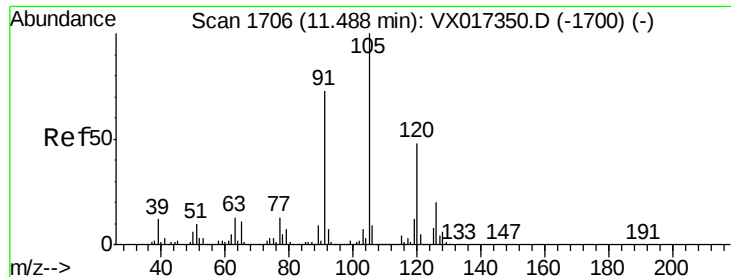
77 1.4 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

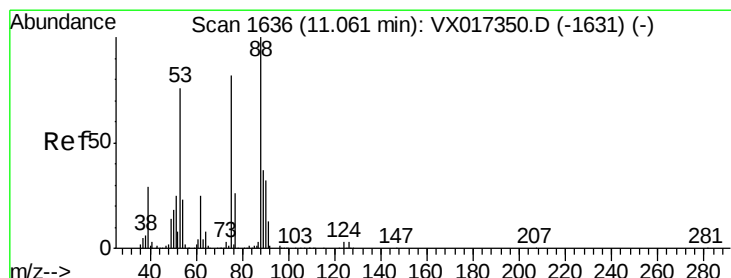
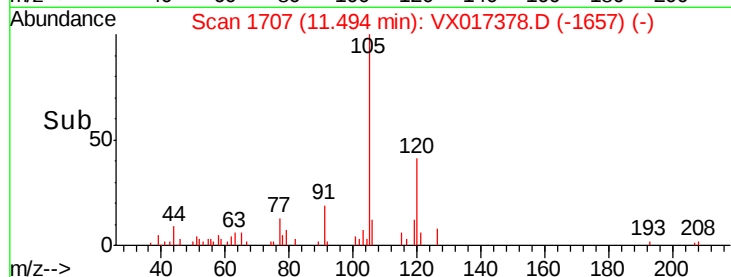
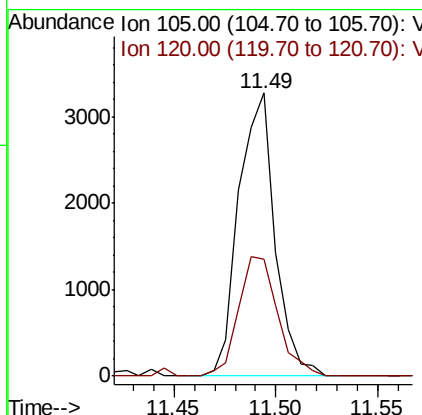
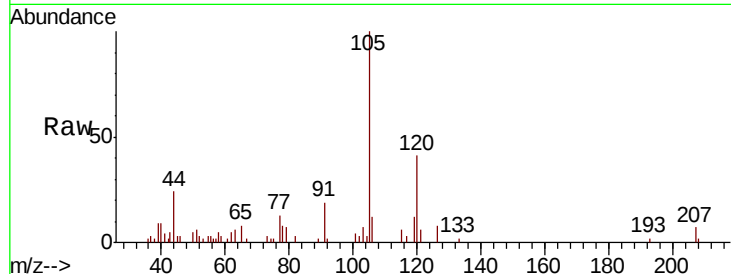




#80
 1,3,5-Trimethylbenzene
 Concen: 0.310 ug/l
 RT: 11.49 min Scan# 1707
 Delta R.T. 0.01 min
 Lab File: VX017378.D
 Acq: 14 Jul 2020 14:56

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130122ZHE#12

Tot Ion:105 Resp: 4030
 Ion Ratio Lower Upper
 105 100
 120 45.9 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.620 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX017378.D
 Acq: 14 Jul 2020 14:56

Tgt Ion: 75 Resp: 113158
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.5 114.7#
 89 0.0 38.1 57.1#

