

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071420\
 Data File : VX017380.D
 Acq On : 14 Jul 2020 15:42
 Operator : JC/SP
 Sample : L3179-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-071320

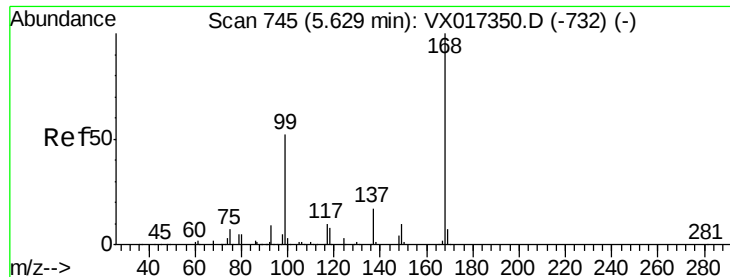
Quant Time: Jul 15 01:25:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	251274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	422148	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	469915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	253813	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	160372	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
35) Dibromofluoromethane	5.47	113	142587	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
50) Toluene-d8	8.70	98	534564	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
62) 4-Bromofluorobenzene	11.12	95	229471	56.32	ug/l	0.00
Spiked Amount			Recovery	=	112.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	520	0.217	ug/l	92
8) Diethyl Ether	2.17	74	707	0.500	ug/l #	26
10) Methyl Iodide	2.50	142	150	2.421	ug/l #	68
11) Tert butyl alcohol	3.00	59	1470	2.767	ug/l #	75
13) Acrolein	2.27	56	105	0.360	ug/l #	1
16) Acetone	2.42	43	32613	28.987	ug/l	98
18) Methyl Acetate	2.75	43	2742	0.987	ug/l	92
20) Methylene Chloride	2.84	84	37208	13.554	ug/l	95
25) 2-Butanone	4.65	43	8424	4.714	ug/l	91
29) Tetrahydrofuran	5.11	42	1112	0.961	ug/l #	53
36) 1,1-Dichloropropene	5.63	75	18272	4.706	ug/l #	49
38) Carbon Tetrachloride	5.63	117	25254	5.555	ug/l #	19
43) Isopropyl Acetate	6.42	43	47290	7.370	ug/l	98
48) Methyl methacrylate	7.85	41	62528	20.307	ug/l #	42
49) 1,4-Dioxane	7.73	88	59	0.936	ug/l #	25
51) 4-Methyl-2-Pentanone	8.59	43	50805	12.985	ug/l #	45
54) cis-1,3-Dichloropropene	8.59	75	22202	4.488	ug/l #	64
56) Ethyl methacrylate	9.29	69	1300	0.307	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	3831	0.771	ug/l #	44
59) 2-Hexanone	9.52	43	45125	15.281	ug/l #	51
74) N-amyl acetate	10.81	43	3428	0.538	ug/l #	49
76) 1,2,3-Trichloropropane	11.12	75	113176	24.131	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	113176	61.215	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: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

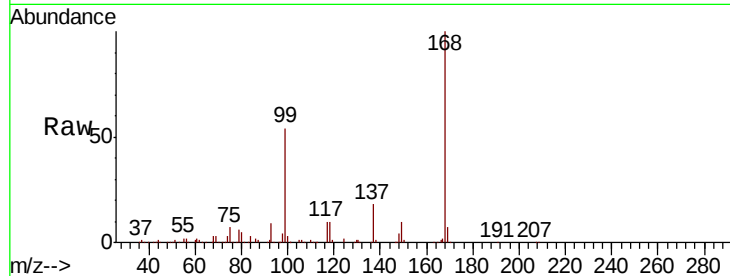
HR-05-071320

Tot Ion:168 Resp: 251274

Ion Ratio Lower Upper

168 100

99 54.4 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

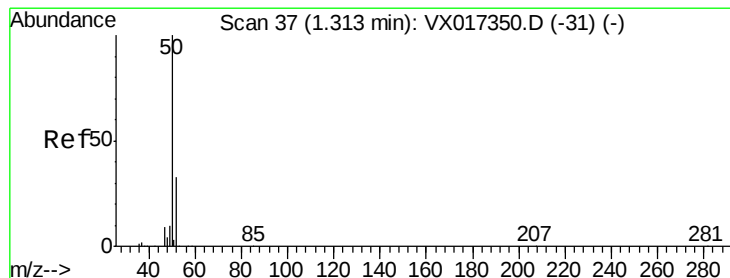
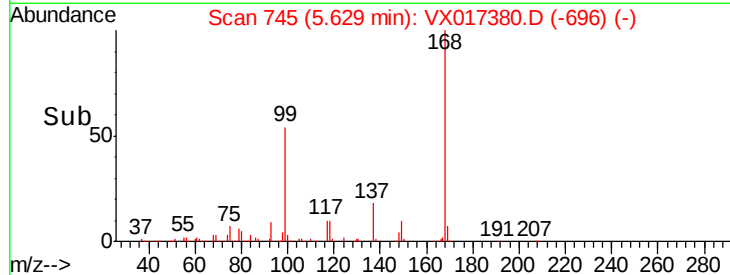
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017380.D

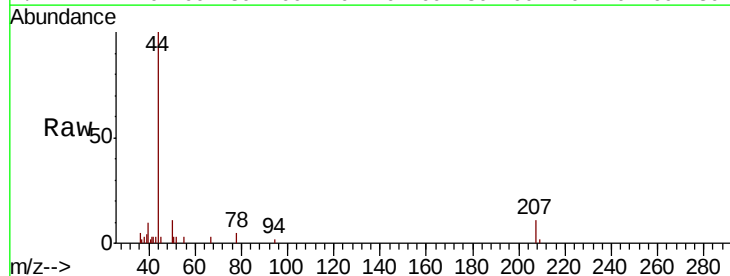
Acq: 14 Jul 2020 15:42

Tgt Ion: 50 Resp: 520

Ion Ratio Lower Upper

50 100

52 28.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

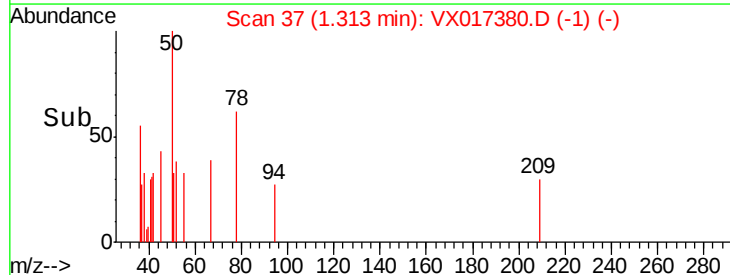
300

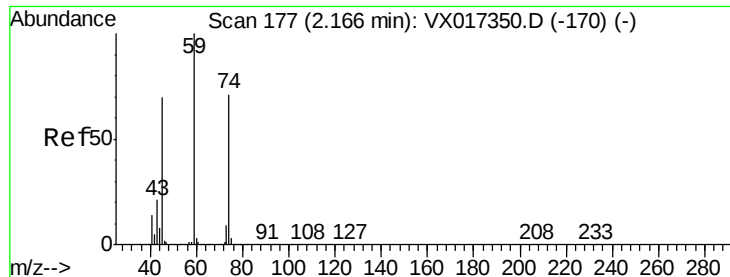
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.500 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

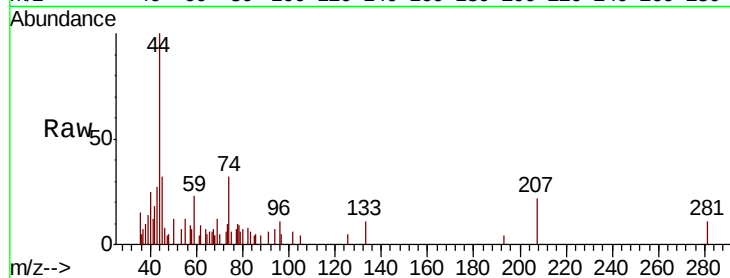
HR-05-071320

Tot Ion: 74 Resp: 707

Ion Ratio Lower Upper

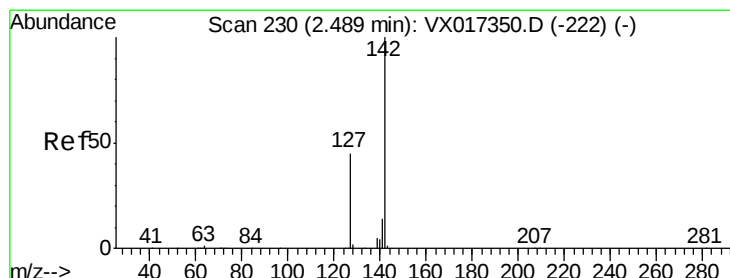
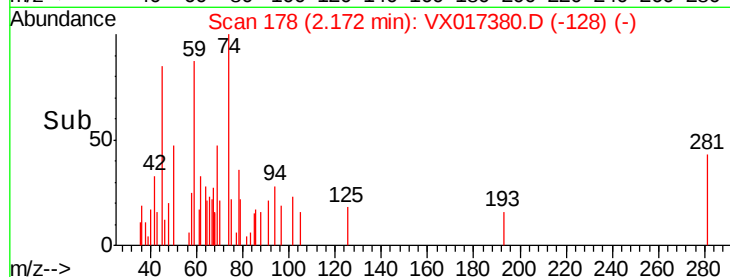
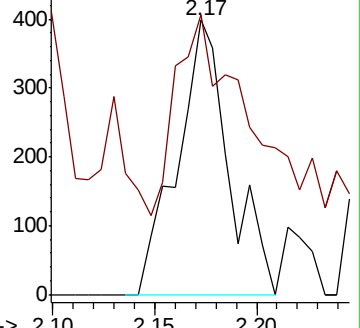
74 100

45 165.6 47.2 141.6#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 2.421 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

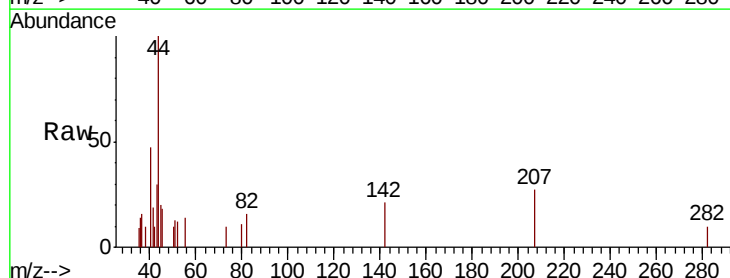
Tgt Ion: 142 Resp: 150

Ion Ratio Lower Upper

142 100

127 25.3 36.8 55.2#

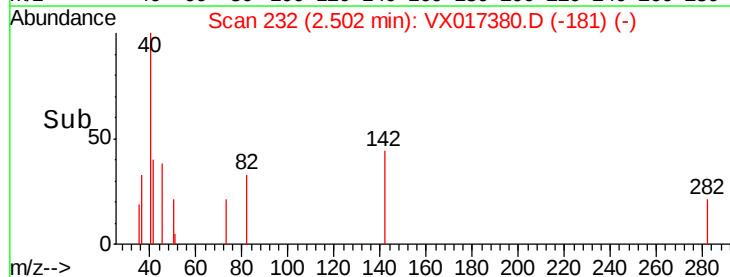
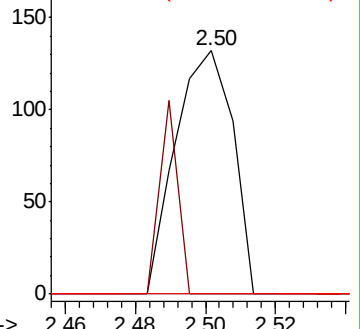
141 0.0 11.4 17.0#

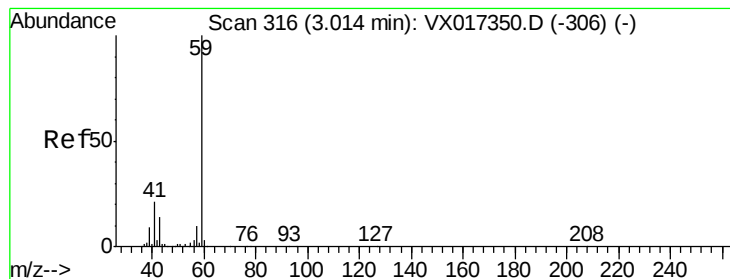


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



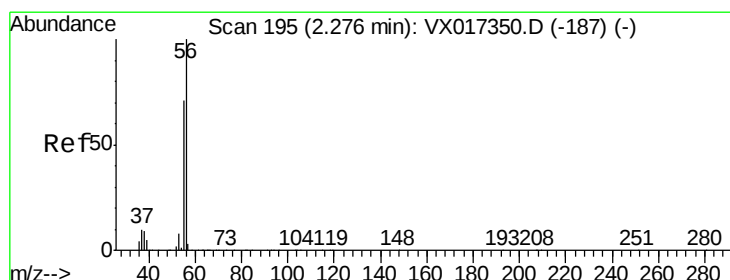
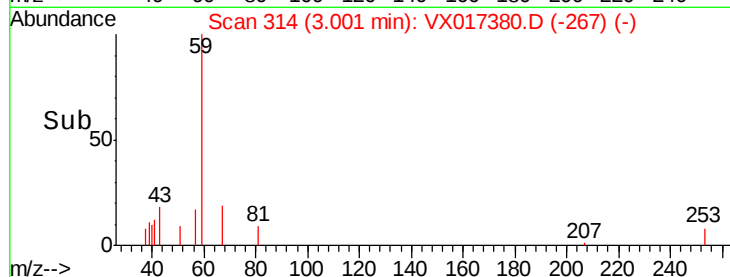
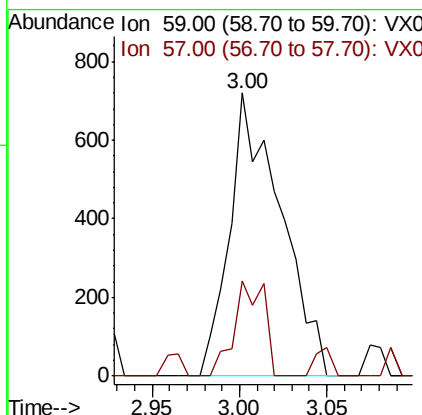
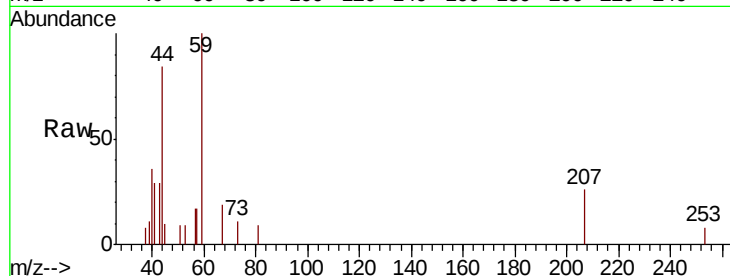


#11

Tert butyl alcohol
Concen: 2.767 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Instrument :
MSVOA_X
ClientSampleId :
HR-05-071320

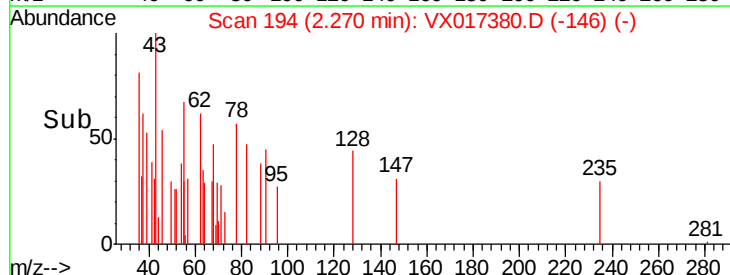
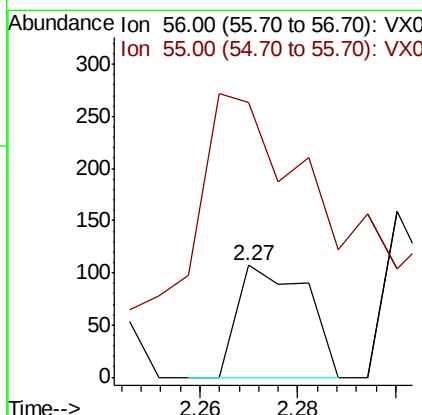
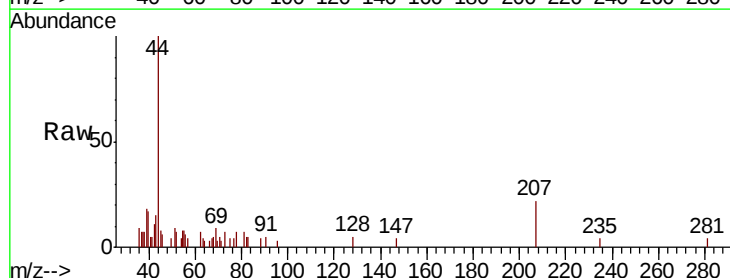
Tot Ion: 59 Resp: 1470
Ion Ratio Lower Upper
59 100
57 19.6 8.3 12.5#

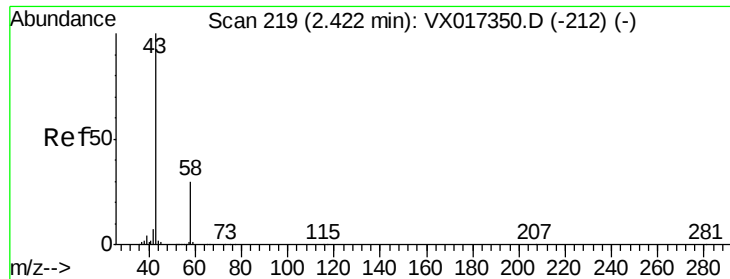


#13

Acrolein
Concen: 0.360 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Tgt Ion: 56 Resp: 105
Ion Ratio Lower Upper
56 100
55 565.7 57.1 85.7#





#16

Acetone

Concen: 28.987 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

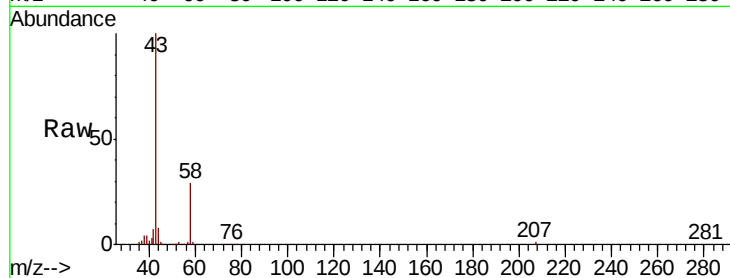
HR-05-071320

Tot Ion: 43 Resp: 32613

Ion Ratio Lower Upper

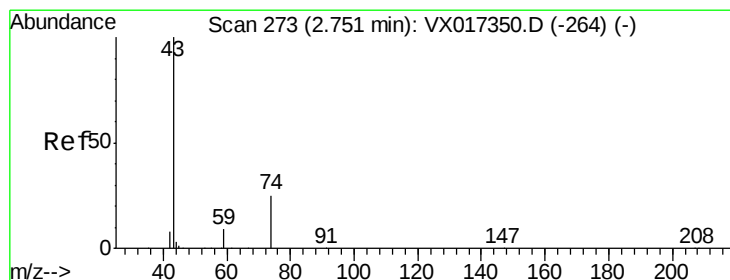
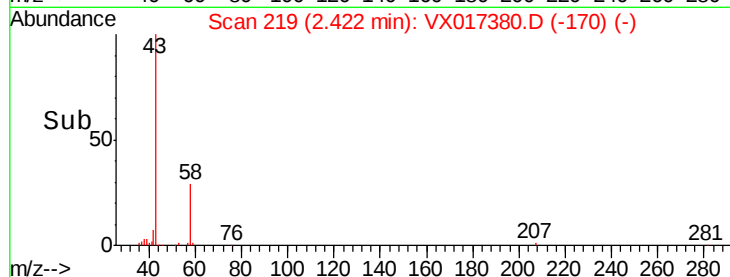
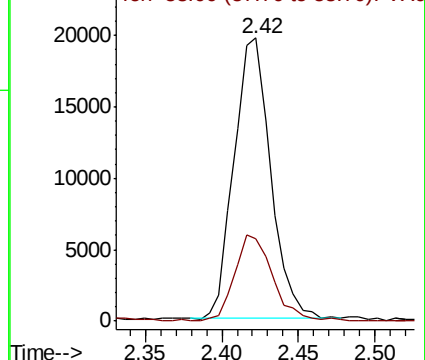
43 100

58 29.2 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: 0.987 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX017380.D

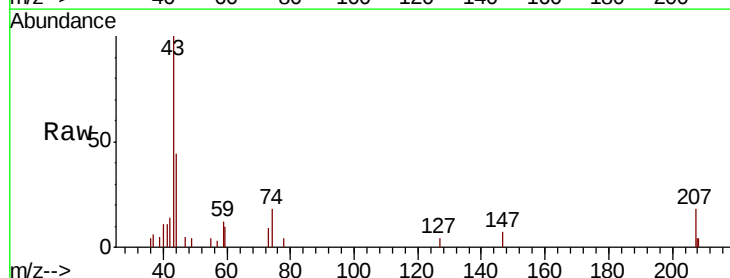
Acq: 14 Jul 2020 15:42

Tgt Ion: 43 Resp: 2742

Ion Ratio Lower Upper

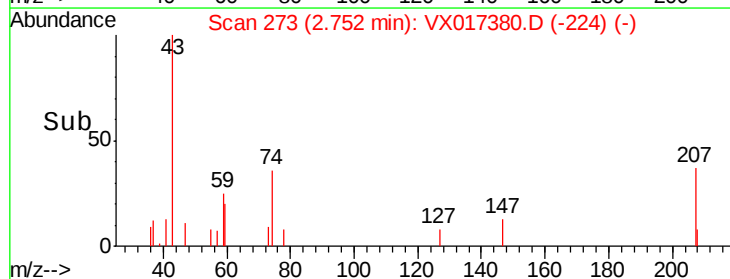
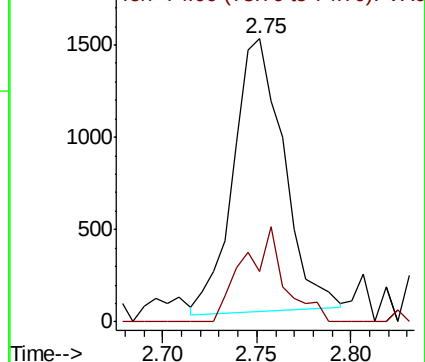
43 100

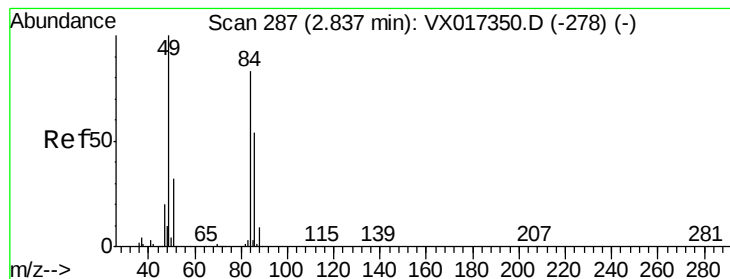
74 28.3 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 13.554 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

HR-05-071320

Tot Ion: 84 Resp: 37208

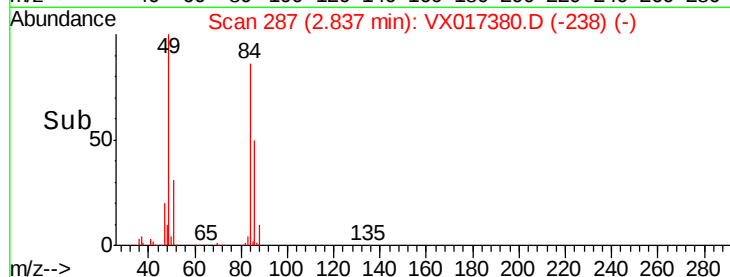
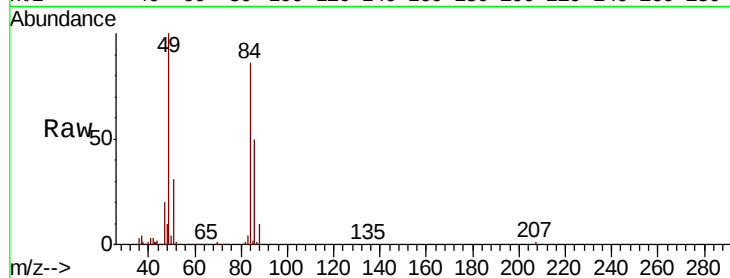
Ion Ratio Lower Upper

84 100

49 116.4 95.8 143.8

51 36.4 31.0 46.4

86 58.4 51.8 77.8

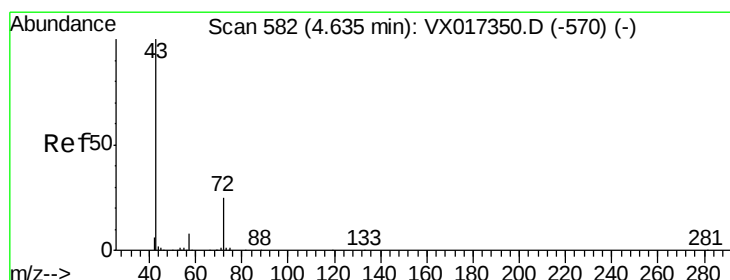
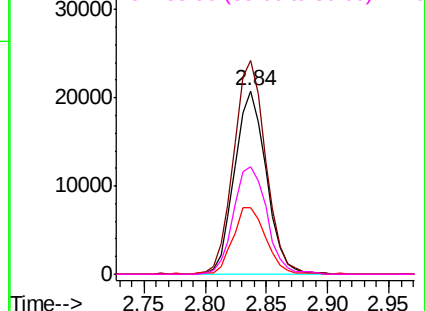


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 4.714 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017380.D

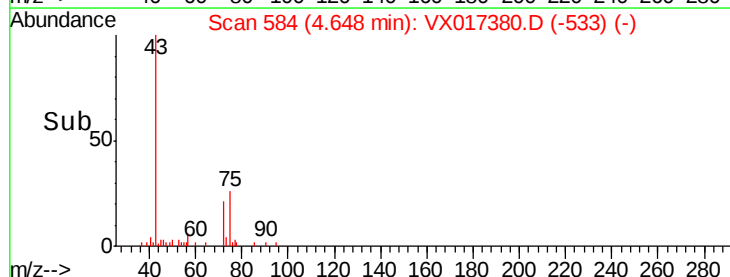
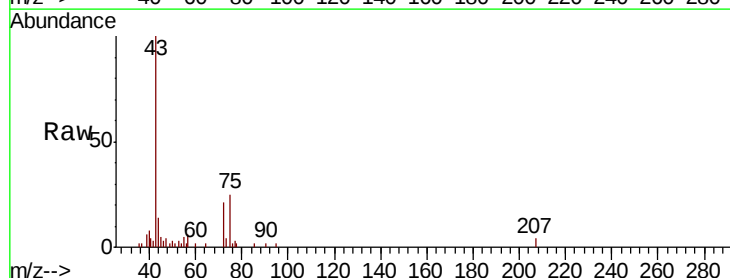
Acq: 14 Jul 2020 15:42

Tgt Ion: 43 Resp: 8424

Ion Ratio Lower Upper

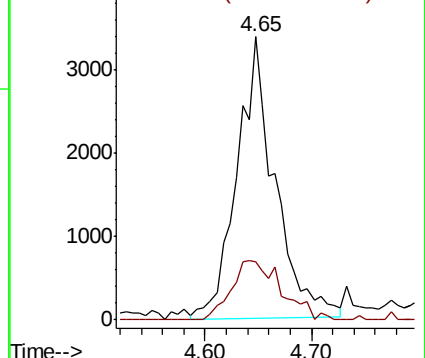
43 100

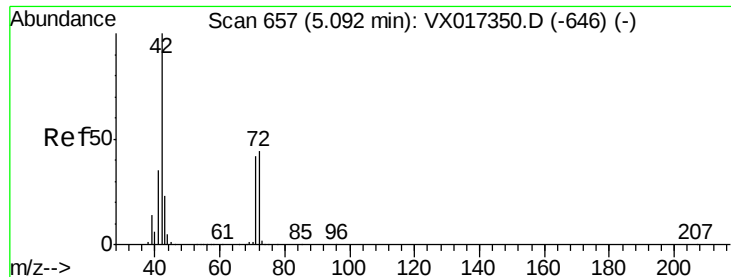
72 20.9 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

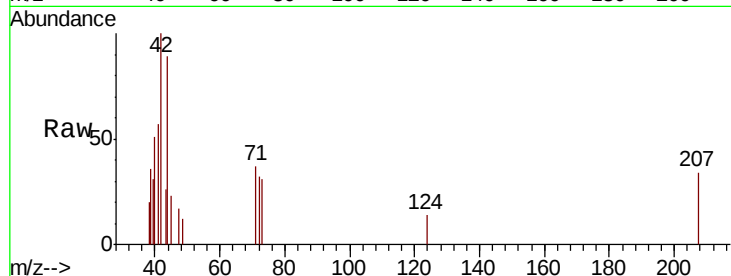




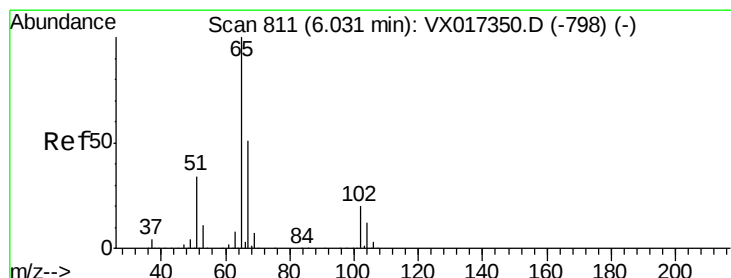
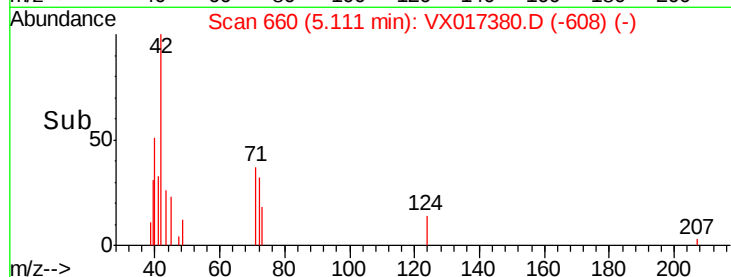
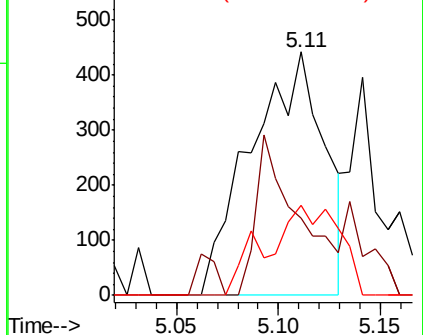
#29
Tetrahydrofuran
Concen: 0.961 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Instrument :
MSVOA_X
ClientSampleId :
HR-05-071320

Tot Ion: 42 Resp: 1112
Ion Ratio Lower Upper
42 100
72 0.0 37.2 55.8#
71 28.6 34.4 51.6#

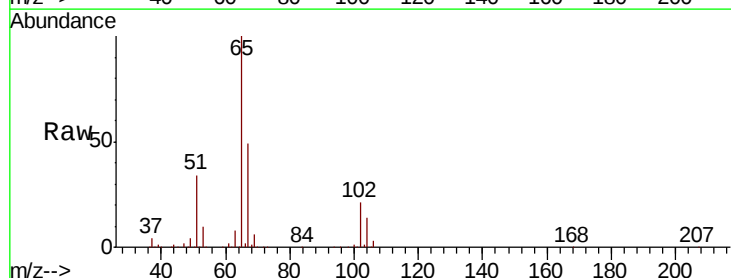


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

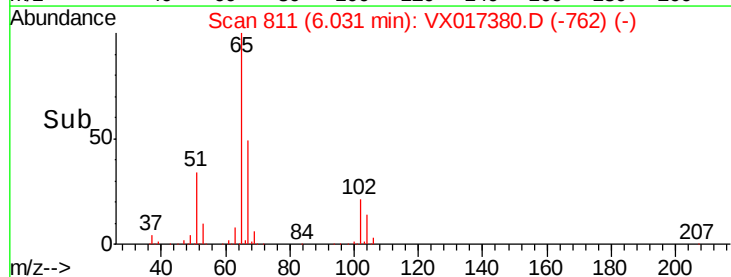
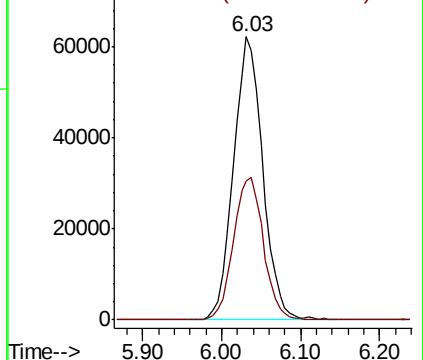


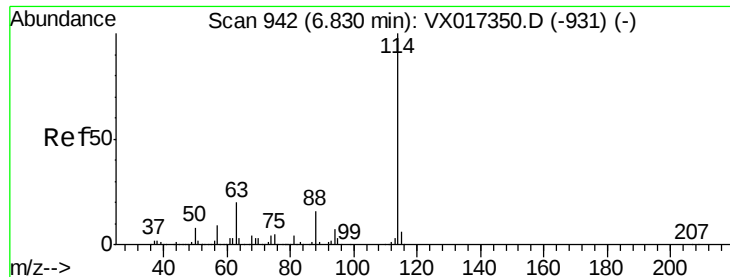
#33
1,2-Dichloroethane-d4
Concen: 50.852 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Tgt Ion: 65 Resp: 160372
Ion Ratio Lower Upper
65 100
67 51.7 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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

HR-05-071320

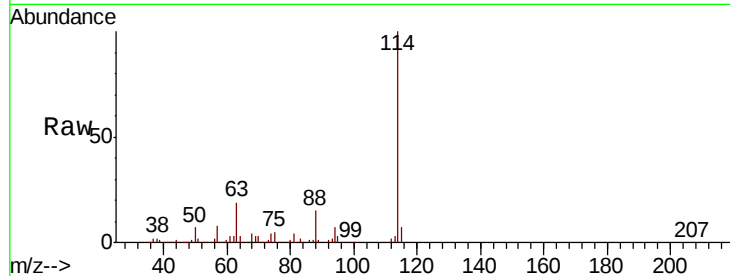
Tot Ion:114 Resp: 422148

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.0

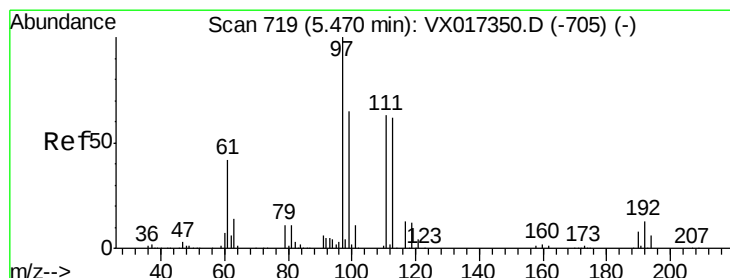
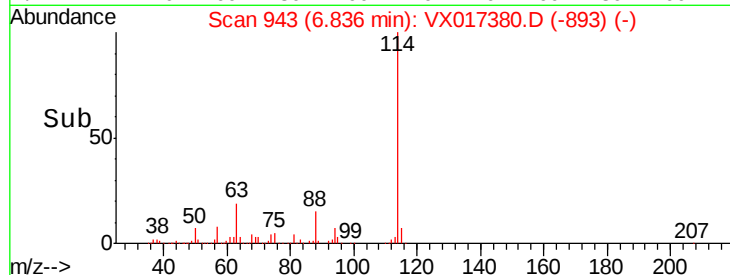
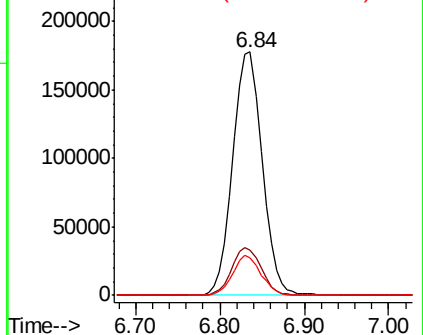
88 15.2 0.0 32.8



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: 50.142 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

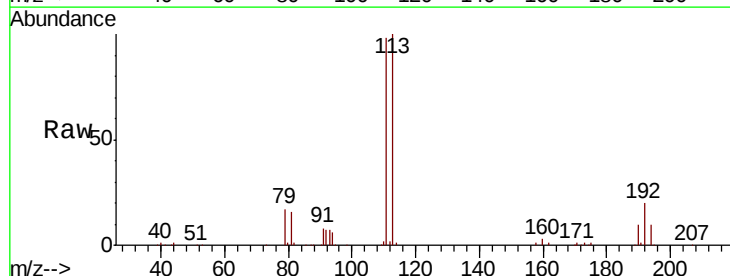
Tgt Ion:113 Resp: 142587

Ion Ratio Lower Upper

113 100

111 99.9 82.4 123.6

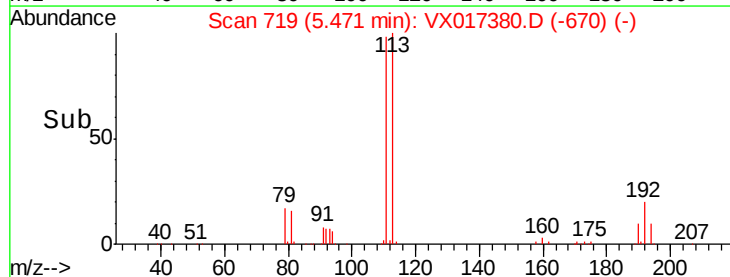
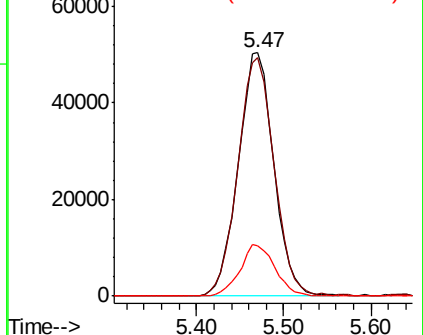
192 20.7 17.2 25.8

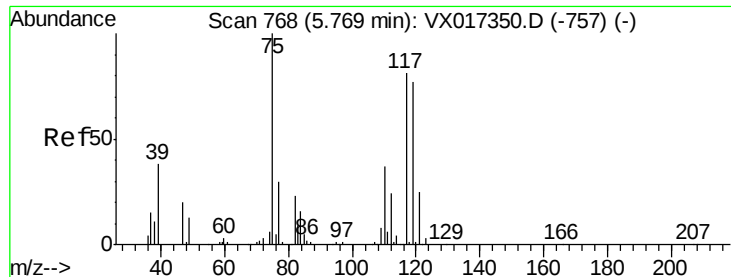


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

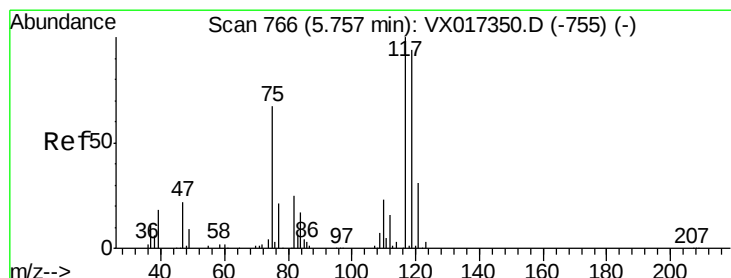
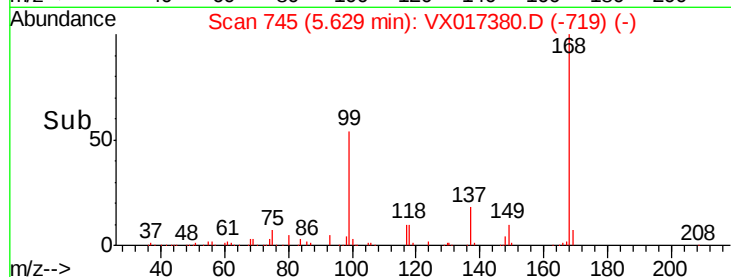
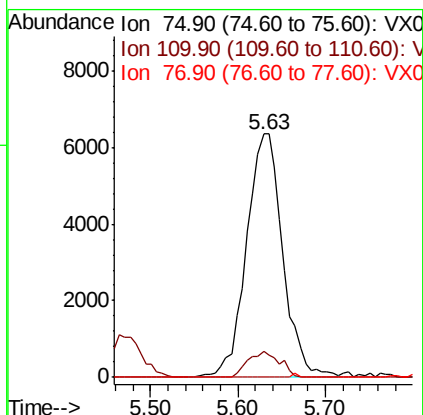
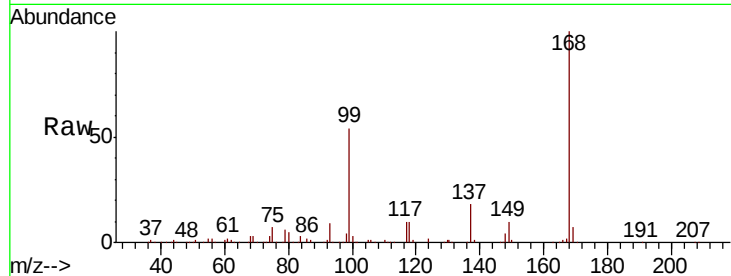




#36
 1,1-Dichloropropene
 Concen: 4.706 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017380.D
 Acq: 14 Jul 2020 15:42

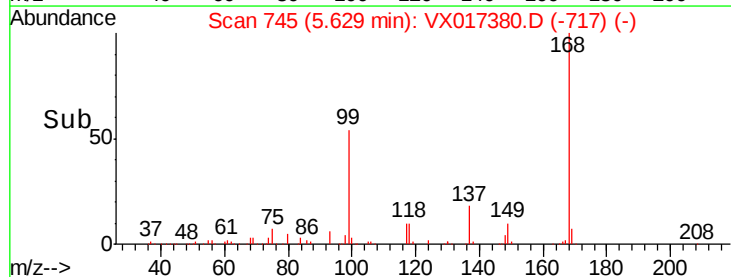
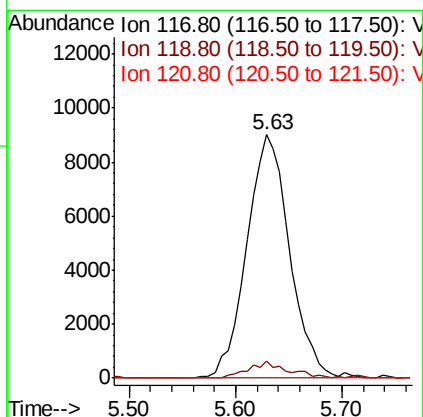
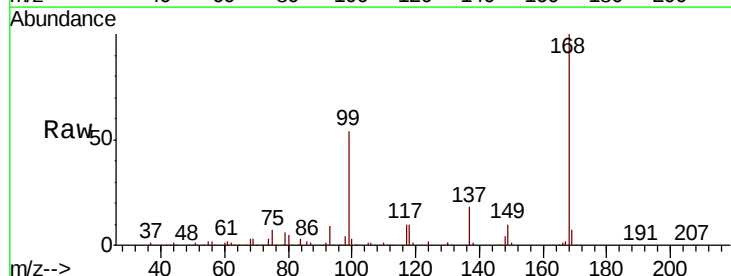
Instrument :
 MSVOA_X
 ClientSampleId :
 HR-05-071320

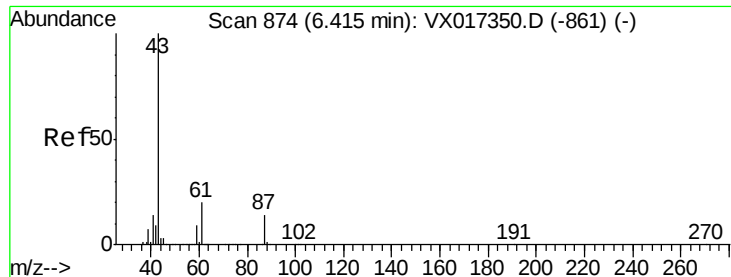
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.6	55.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.555 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX017380.D
 Acq: 14 Jul 2020 15:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	74.7	112.1#
121	0.0	24.5	36.7#





#43

Isopropyl Acetate

Concen: 7.370 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.00 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

HR-05-071320

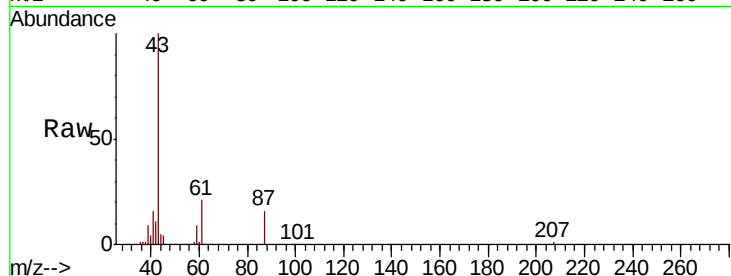
Tot Ion: 43 Resp: 47290

Ion Ratio Lower Upper

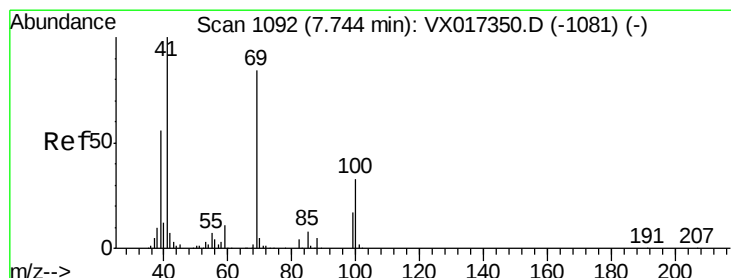
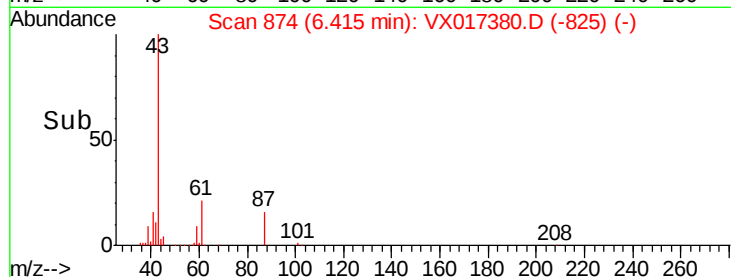
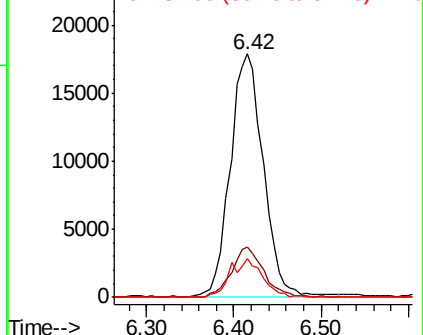
43 100

61 20.0 16.4 24.6

87 15.3 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

Methyl methacrylate

Concen: 20.307 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.11 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

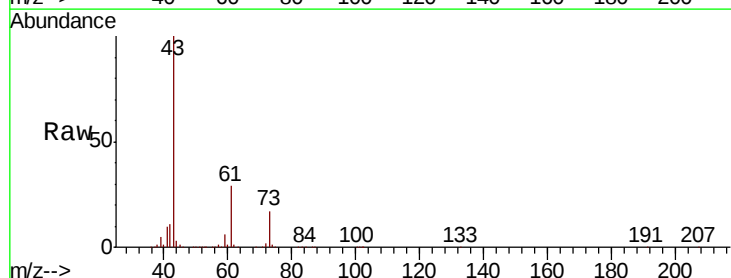
Tgt Ion: 41 Resp: 62528

Ion Ratio Lower Upper

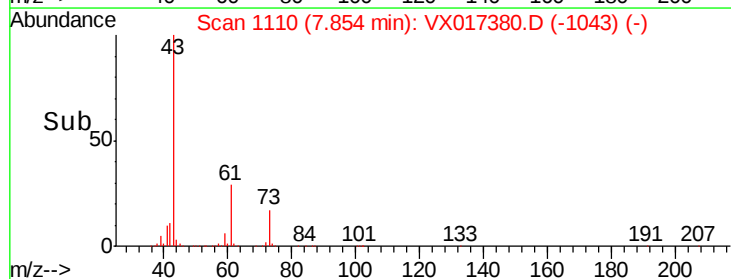
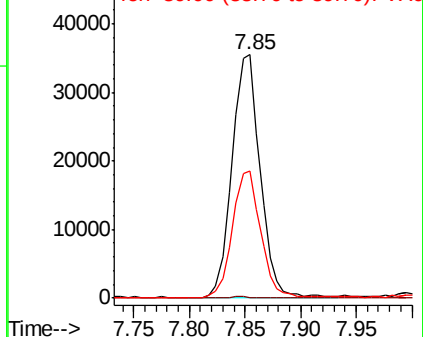
41 100

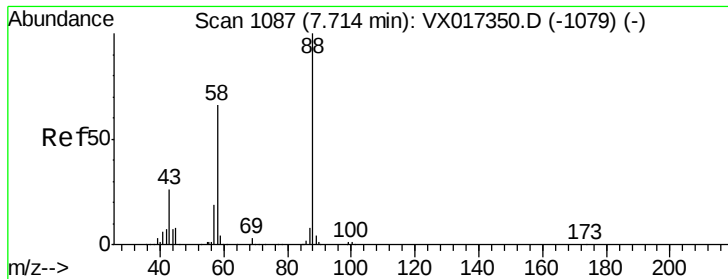
69 0.3 67.8 101.6#

39 51.7 45.1 67.7



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

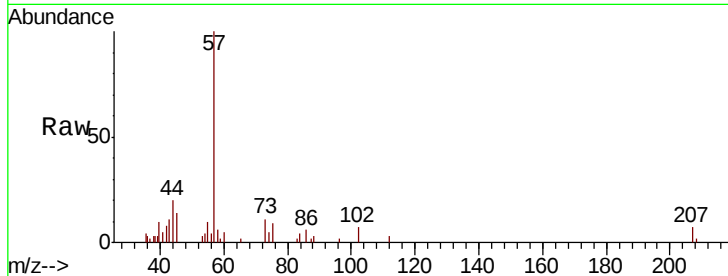




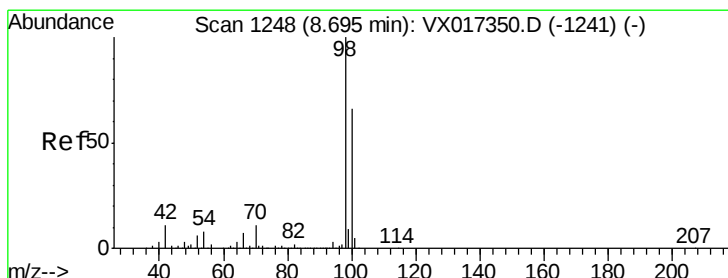
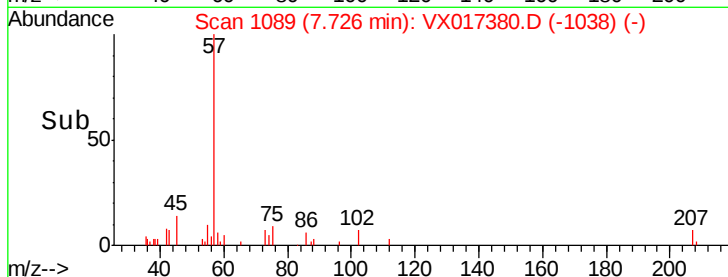
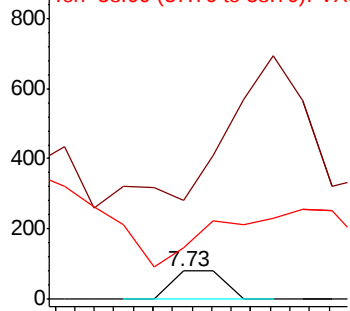
#49
1,4-Dioxane
Concen: 0.936 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Instrument :
MSVOA_X
ClientSampleId :
HR-05-071320

Tot Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 25.6 38.4#
58 0.0 53.9 80.9#

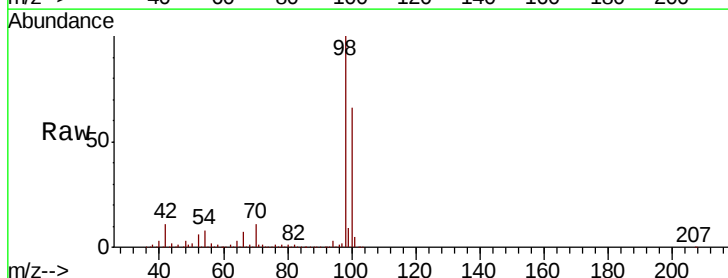


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

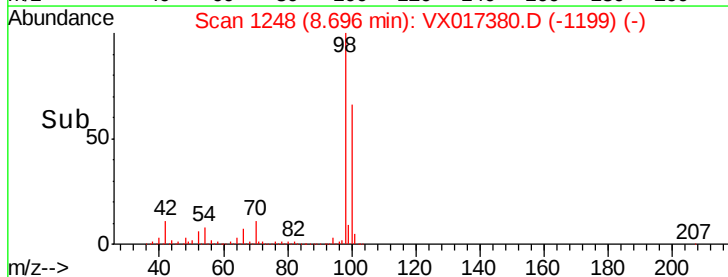
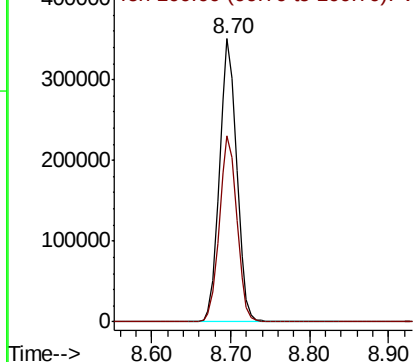


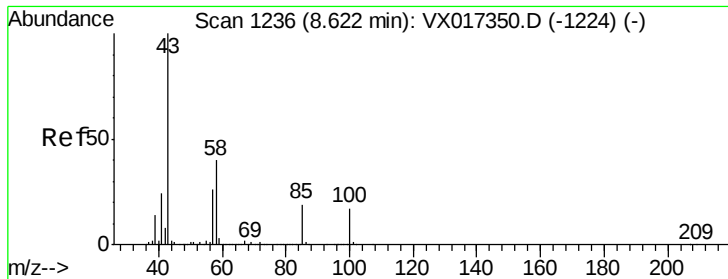
#50
Toluene-d8
Concen: 52.114 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Tgt Ion: 98 Resp: 534564
Ion Ratio Lower Upper
98 100
100 66.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 12.985 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

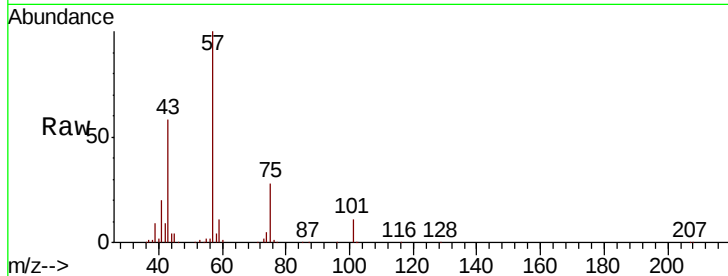
HR-05-071320

Tot Ion: 43 Resp: 50805

Ion Ratio Lower Upper

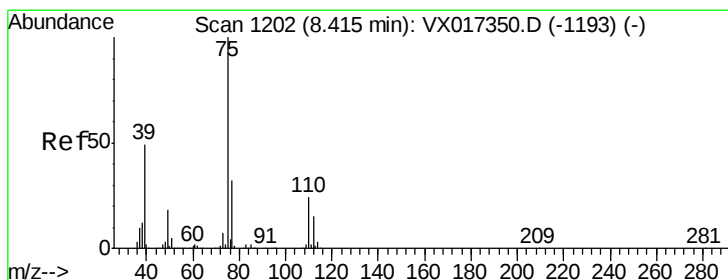
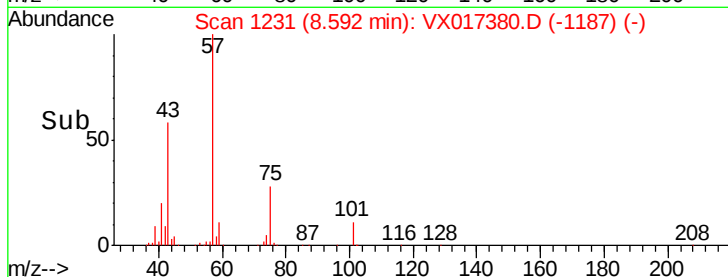
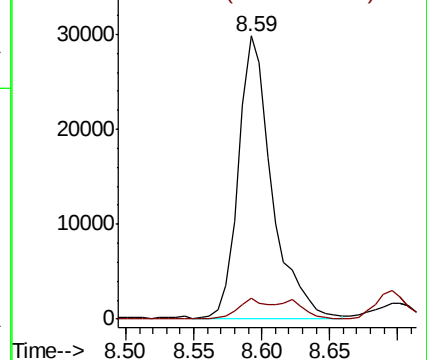
43 100

58 6.0 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: 4.488 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

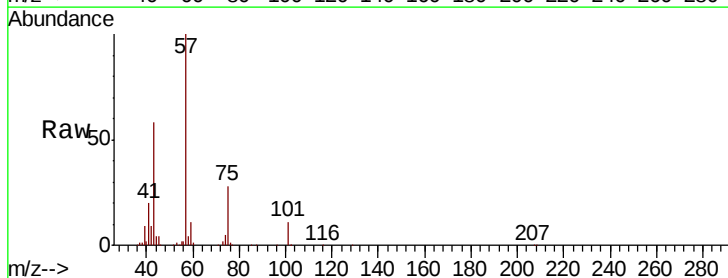
Tgt Ion: 75 Resp: 22202

Ion Ratio Lower Upper

75 100

77 1.1 25.3 37.9#

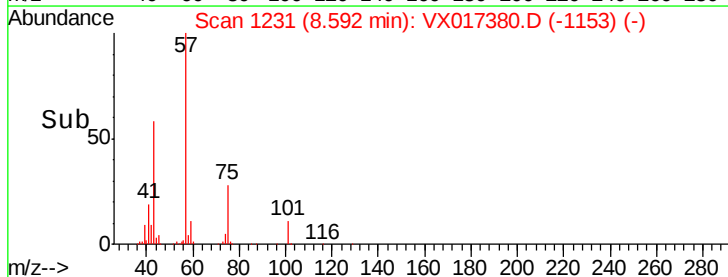
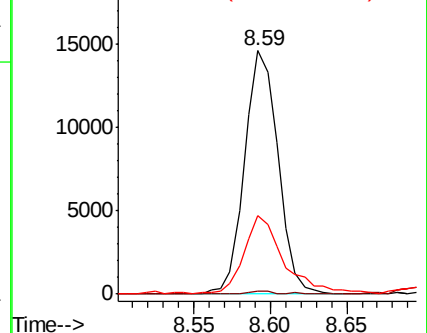
39 32.4 38.9 58.3#

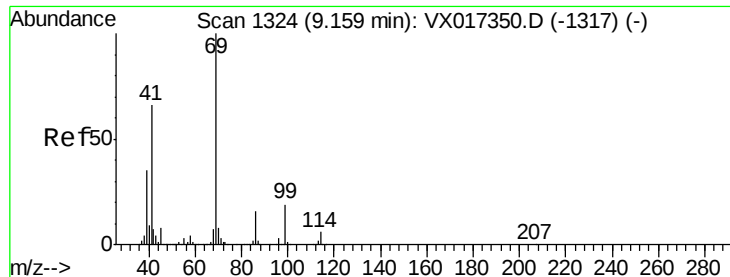


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#56

Ethyl methacrylate

Concen: 0.307 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

HR-05-071320

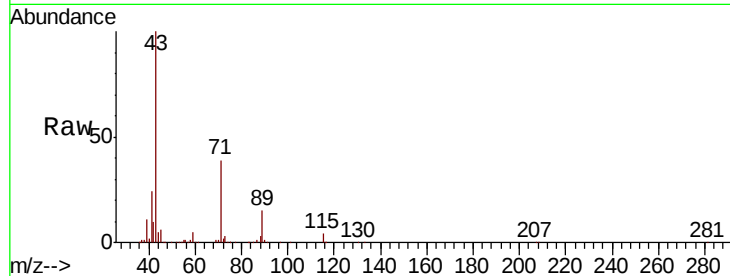
Tot Ion: 69 Resp: 1300

Ion Ratio Lower Upper

69 100

41 2981.4 52.6 78.8#

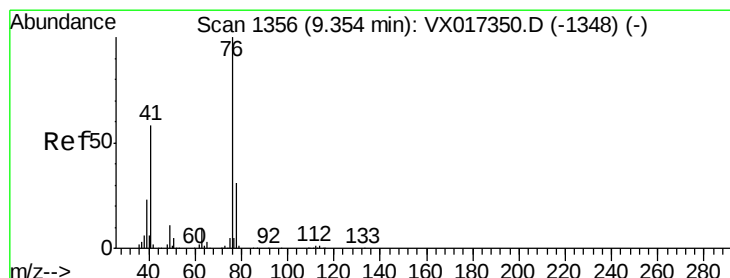
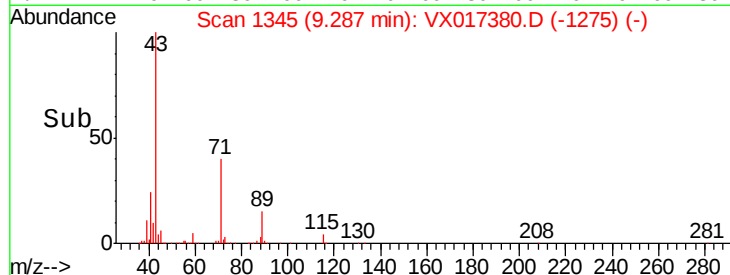
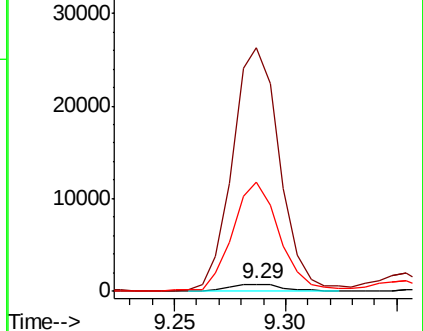
39 1346.3 28.8 43.2#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 0.771 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017380.D

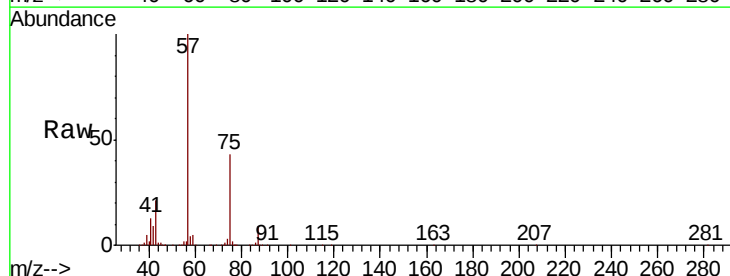
Acq: 14 Jul 2020 15:42

Tgt Ion: 76 Resp: 3831

Ion Ratio Lower Upper

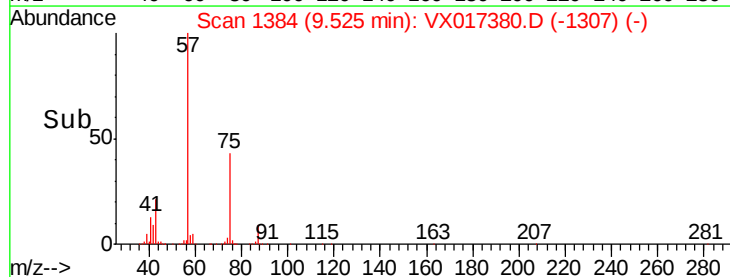
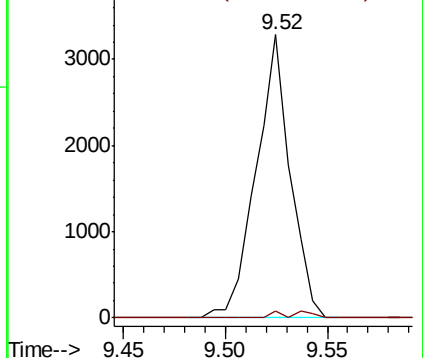
76 100

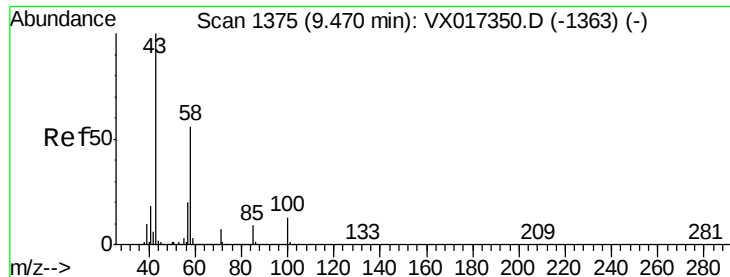
78 0.7 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 15.281 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

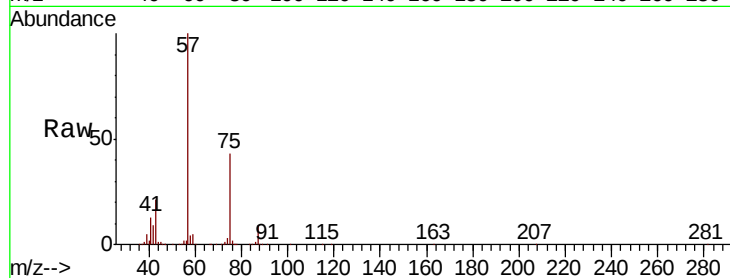
HR-05-071320

Tot Ion: 43 Resp: 45125

Ion Ratio Lower Upper

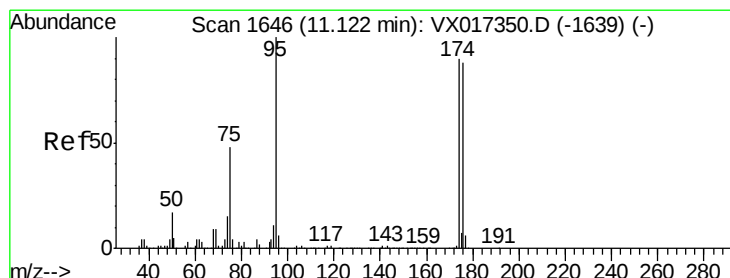
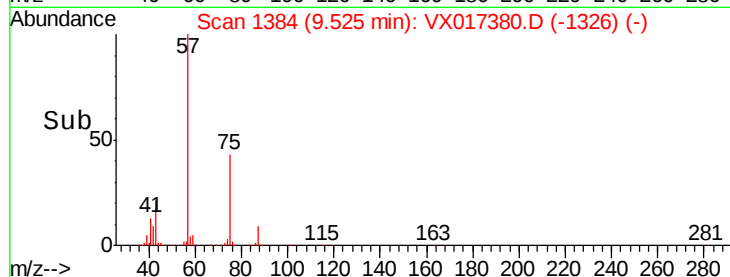
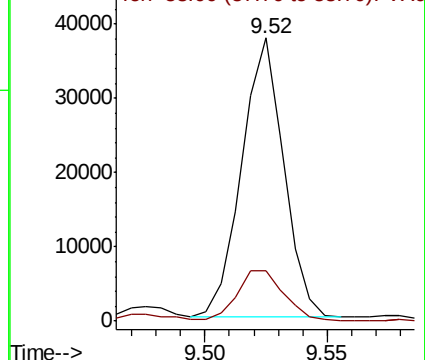
43 100

58 20.5 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 56.319 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

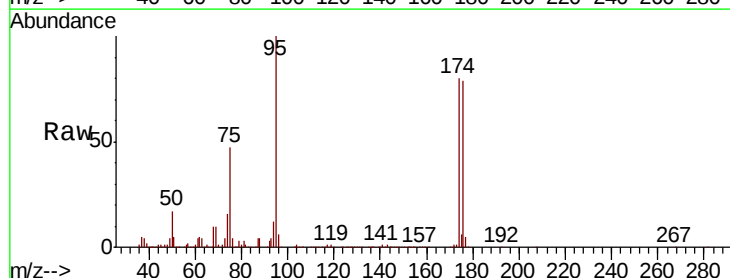
Tgt Ion: 95 Resp: 229471

Ion Ratio Lower Upper

95 100

174 83.2 0.0 175.8

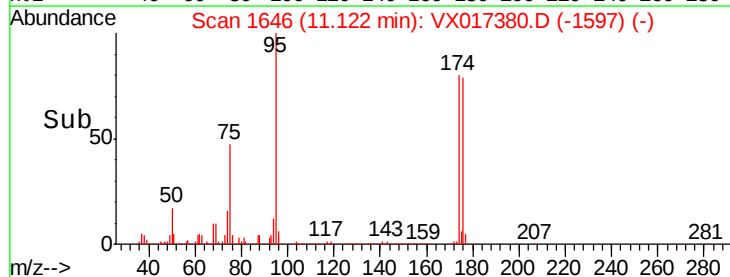
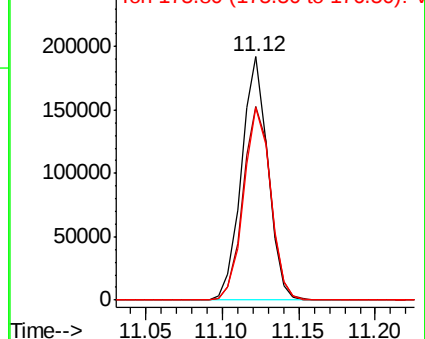
176 80.7 0.0 164.6

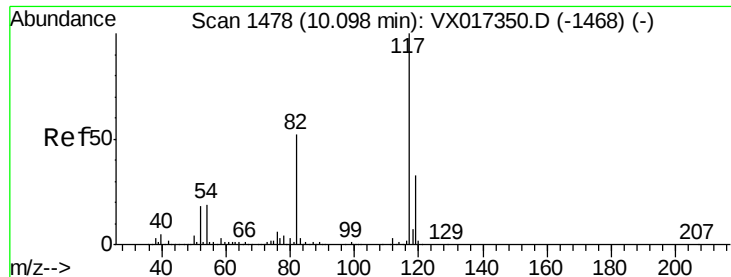


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

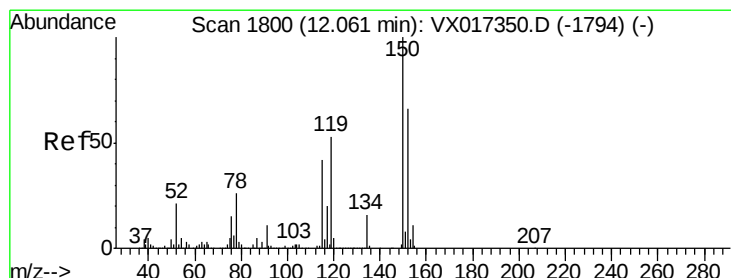
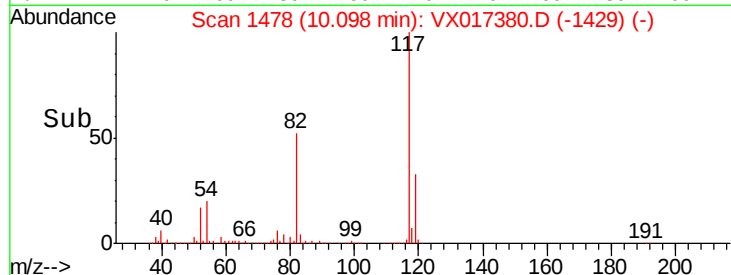
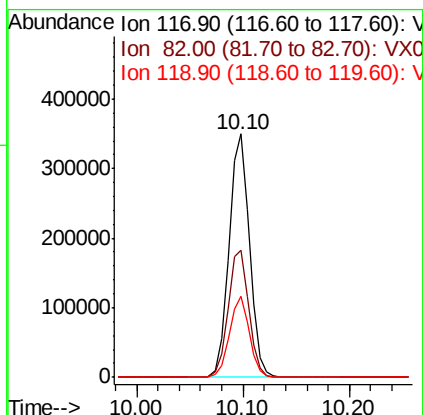
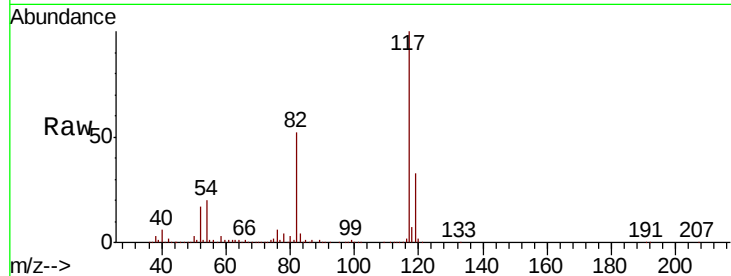




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

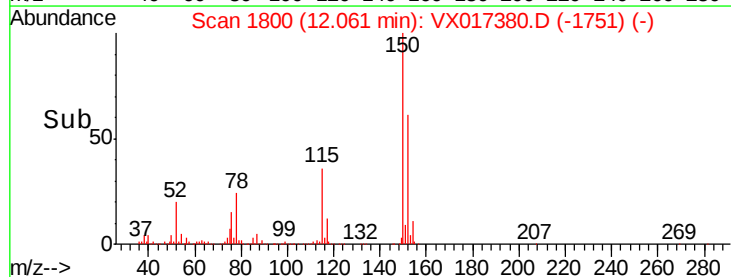
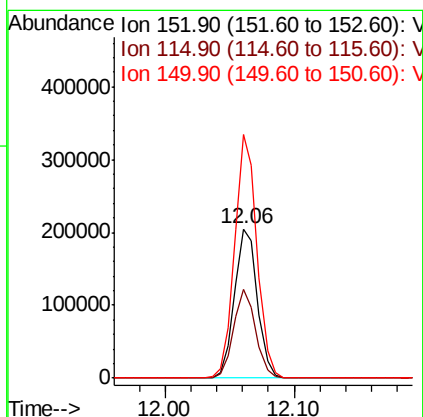
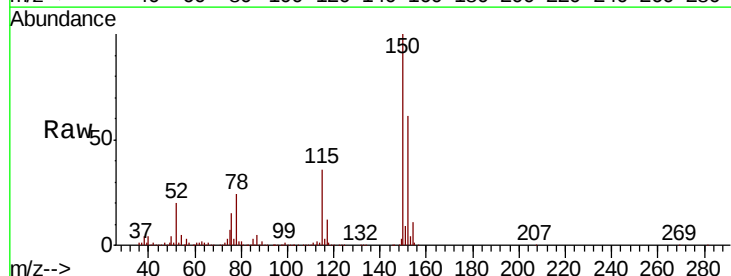
Instrument :
MSVOA_X
ClientSampleId :
HR-05-071320

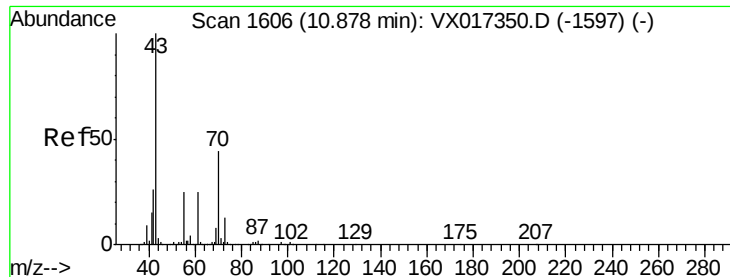
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.0	63.0
119	33.4	26.3	39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017380.D
Acq: 14 Jul 2020 15:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	39.9	119.7
150	158.4	0.0	343.4





#74

N-amvl acetate

Concen: 0.538 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

HR-05-071320

Tot Ion: 43 Resp: 3428

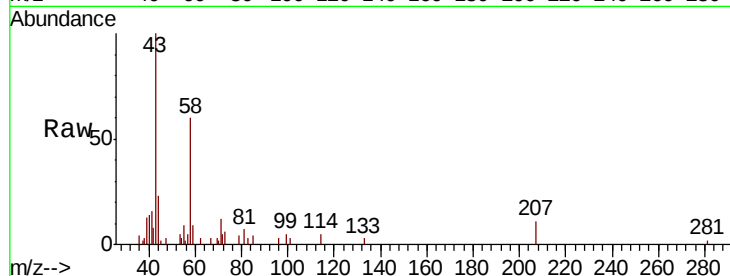
Ion Ratio Lower Upper

43 100

70 0.0 35.7 53.5#

55 15.0 20.3 30.5#

61 0.0 20.0 30.0#

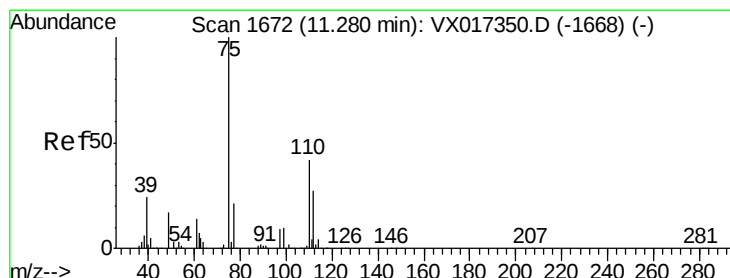
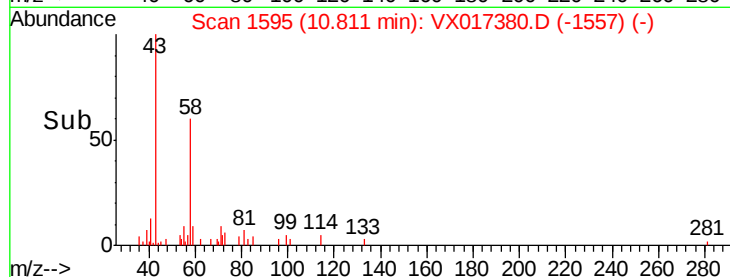
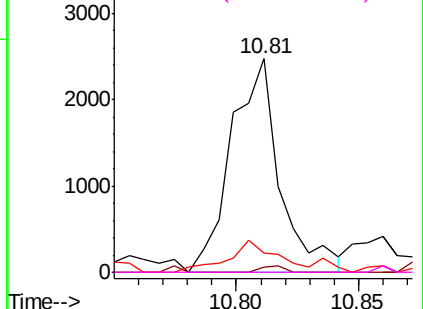


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.131 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017380.D

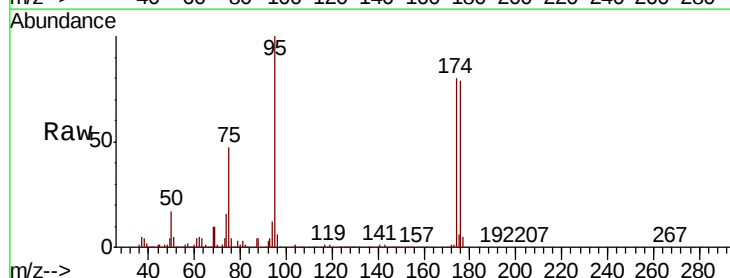
Acq: 14 Jul 2020 15:42

Tgt Ion: 75 Resp: 113176

Ion Ratio Lower Upper

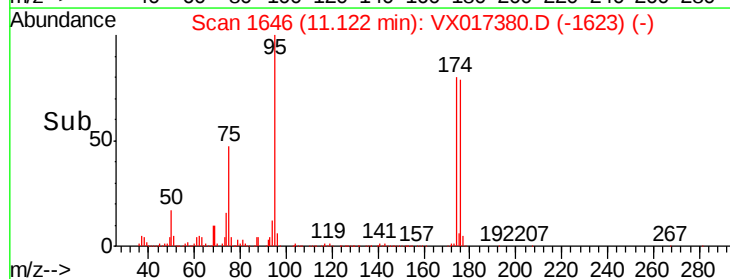
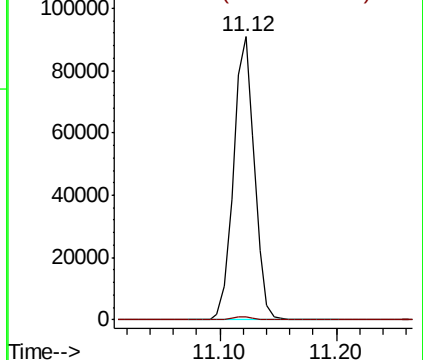
75 100

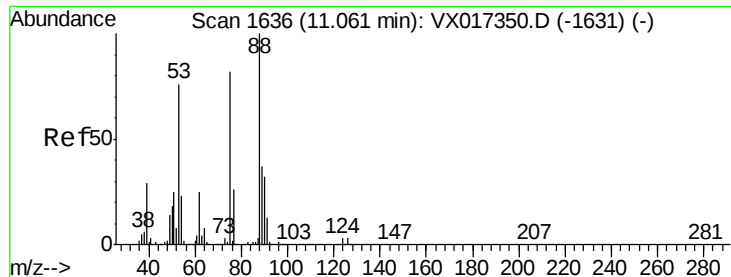
77 1.1 20.3 60.9#



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: 61.215 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017380.D

Acq: 14 Jul 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

HR-05-071320

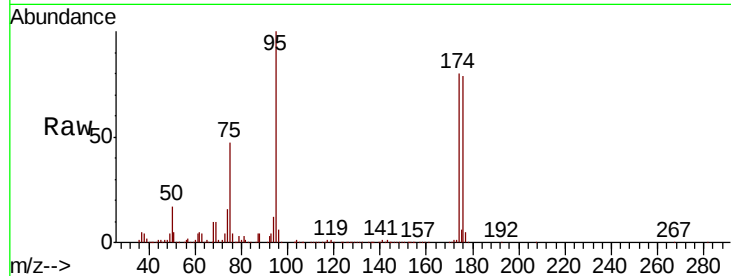
Tot Ion: 75 Resp: 113176

Ion Ratio Lower Upper

75 100

53 0.1 76.5 114.7#

89 0.1 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

