

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011606.D
 Acq On : 17 Aug 2019 02:11
 Operator : JC/SP
 Sample : K4265-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A1-(0-1)

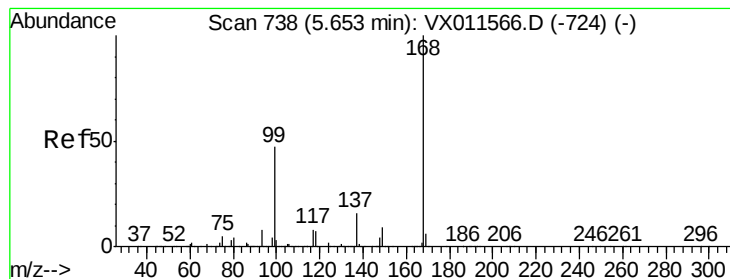
Quant Time: Aug 19 01:17:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	453242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	627755	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	552921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	257481	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	213937	50.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.80%	
35) Dibromofluoromethane	5.49	113	186303	45.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.74%	
50) Toluene-d8	8.71	98	711383	55.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.20%	
62) 4-Bromofluorobenzene	11.13	95	250959	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	6091	5.907	ug/l #	71
13) Acrolein	2.26	56	276	13.011	ug/l #	48
16) Acetone	2.43	43	12471	5.901	ug/l	96
18) Methyl Acetate	2.77	43	4677	0.714	ug/l	96
20) Methylene Chloride	2.85	84	3820	0.861	ug/l #	76
25) 2-Butanone	4.68	43	2223	0.670	ug/l	90
36) 1,1-Dichloropropene	5.66	75	26321	4.904	ug/l #	40
37) Ethyl Acetate	4.68	43	2241	0.363	ug/l	100
38) Carbon Tetrachloride	5.66	117	39186	6.627	ug/l #	15
43) Isopropyl Acetate	6.44	43	78482	8.146	ug/l	98
48) Methyl methacrylate	7.67	41	4846	1.016	ug/l #	19
49) 1,4-Dioxane	7.74	88	105	0.827	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	73498	11.655	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	35968	5.706	ug/l #	61
59) 2-Hexanone	9.54	43	84256	17.326	ug/l #	50
68) m/p-Xylenes	10.36	106	1868	0.247	ug/l	92
71) Bromoform	10.72	173	105	3.314	ug/l #	28
74) N-amyl acetate	10.82	43	3726	0.525	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	114120	23.374	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	114120	62.123	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

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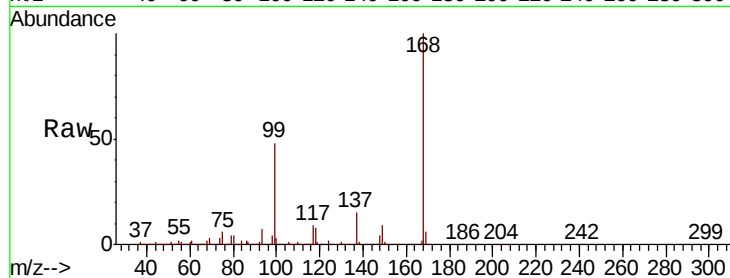
REACTOR-4-A1-(0-1)

Tgt Ion:168 Resp: 453242

Ion Ratio Lower Upper

168 100

99 47.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

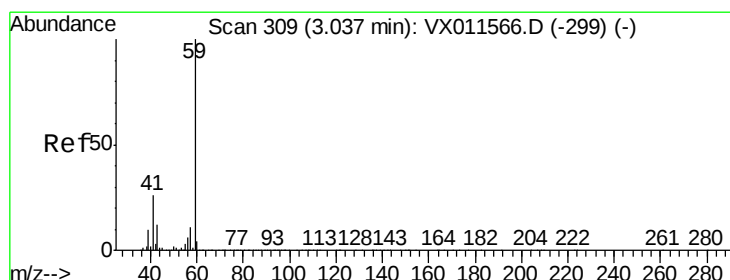
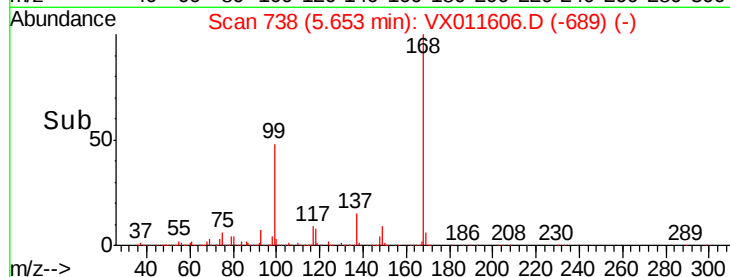
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 5.907 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011606.D

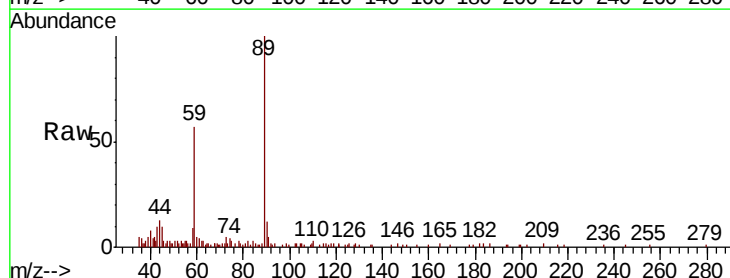
Acq: 17 Aug 2019 02:11

Tgt Ion: 59 Resp: 6091

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

3000

2500

2000

1500

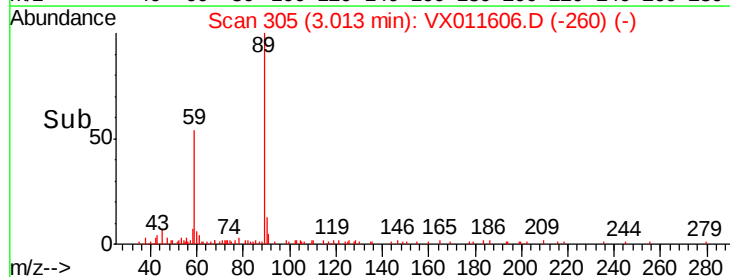
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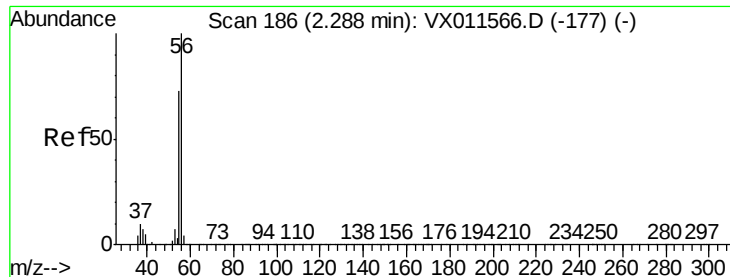
500

0

Time-->

2.95 3.00 3.05 3.10





#13

Acrolein

Concen: 13.011 ug/l

RT: 2.26 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

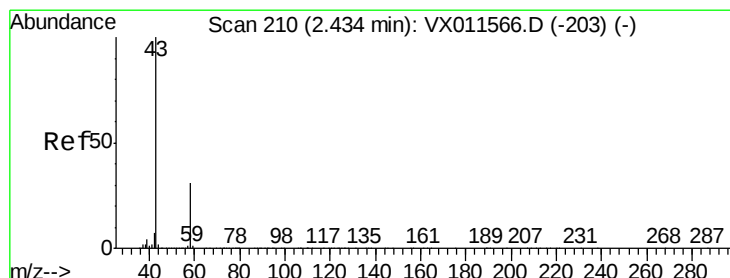
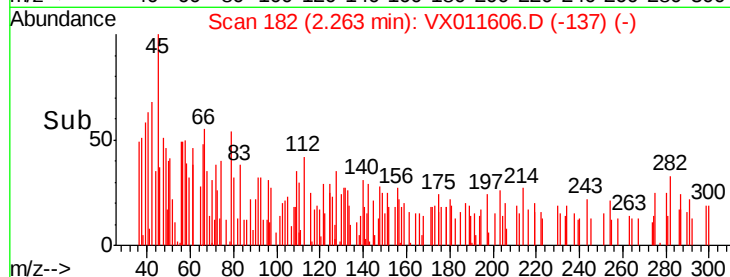
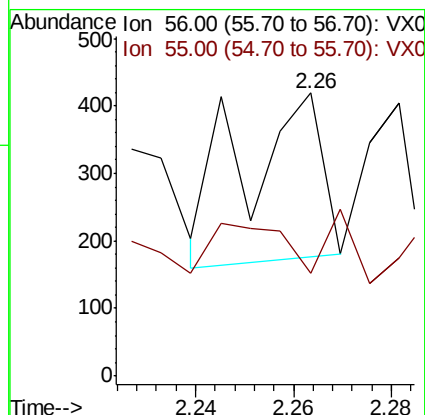
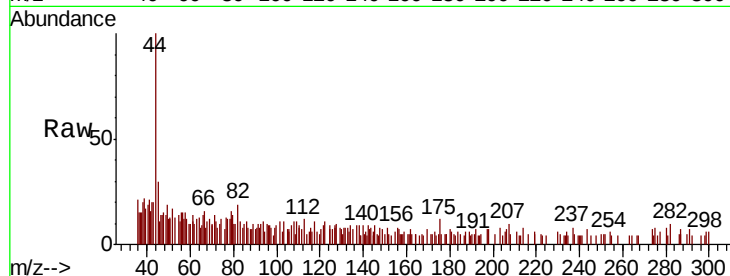
REACTOR-4-A1-(0-1)

Tgt Ion: 56 Resp: 276

Ion Ratio Lower Upper

56 100

55 26.8 55.5 83.3#



#16

Acetone

Concen: 5.901 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011606.D

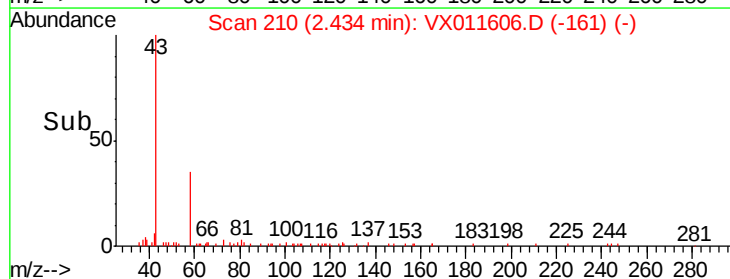
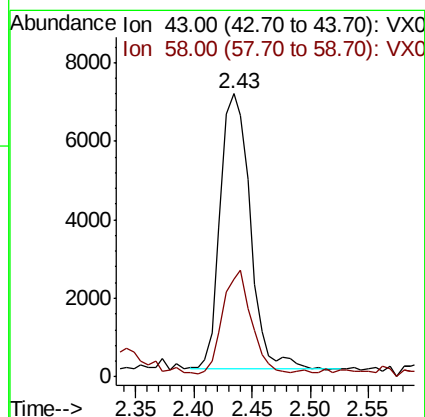
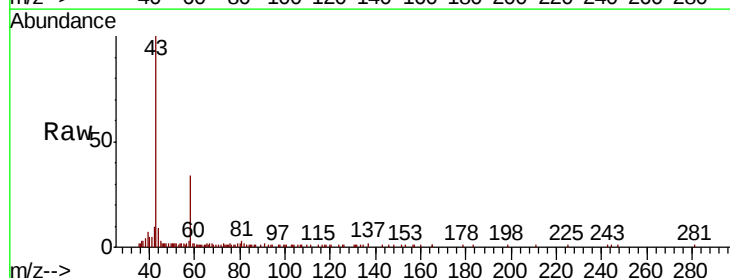
Acq: 17 Aug 2019 02:11

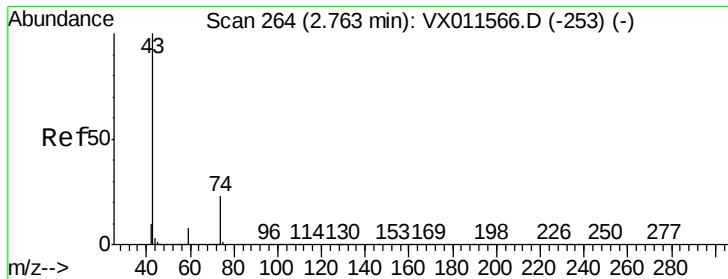
Tgt Ion: 43 Resp: 12471

Ion Ratio Lower Upper

43 100

58 33.8 25.2 37.8

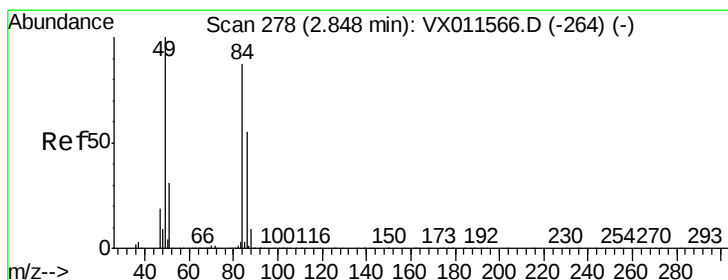
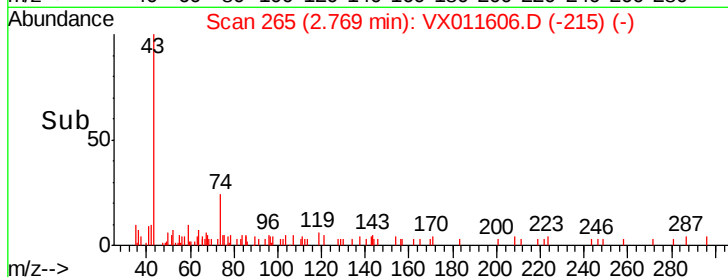
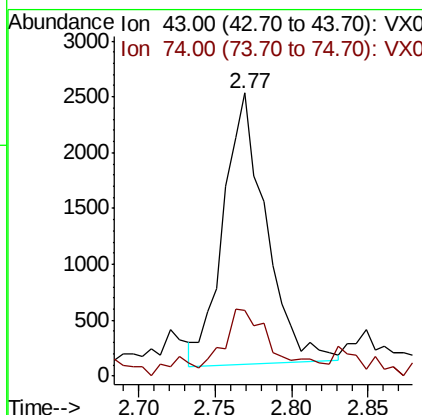
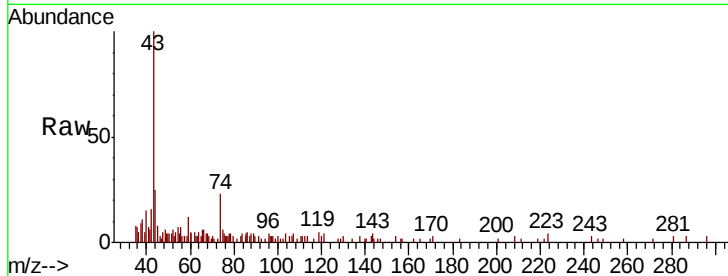




#18
Methyl Acetate
Concen: 0.714 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

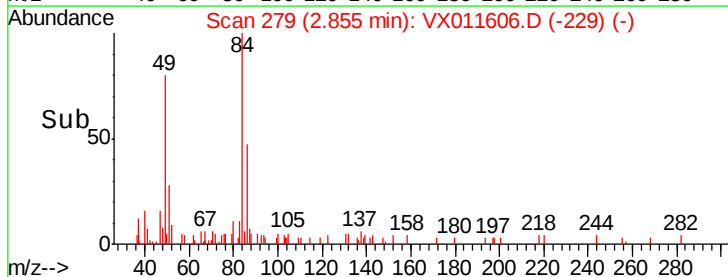
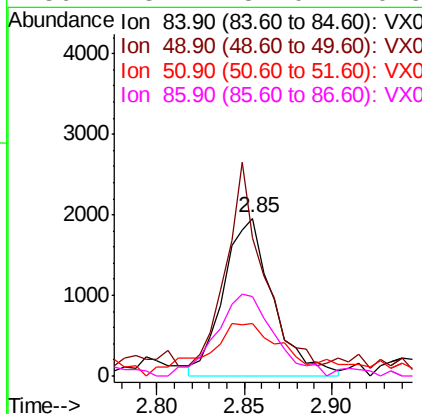
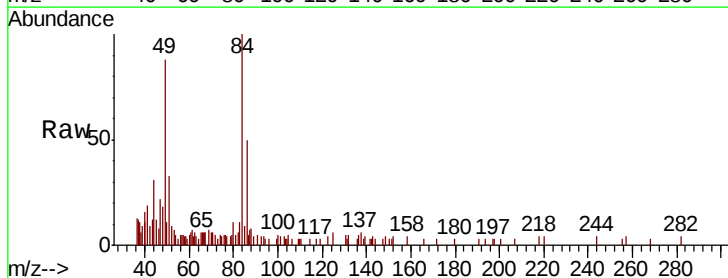
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A1-(0-1)

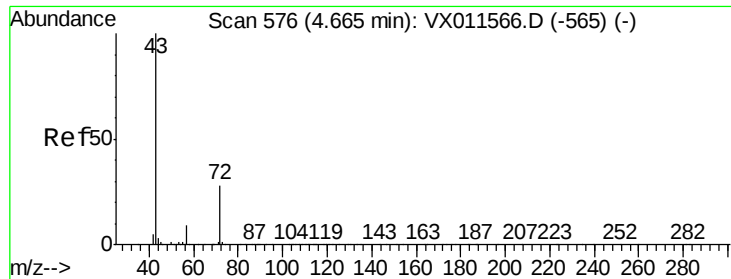
Tgt Ion: 43 Resp: 4677
Ion Ratio Lower Upper
43 100
74 22.5 19.7 29.5



#20
Methylene Chloride
Concen: 0.861 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

Tgt Ion: 84 Resp: 3820
Ion Ratio Lower Upper
84 100
49 83.8 92.4 138.6#
51 26.9 28.5 42.7#
86 48.1 51.0 76.6#

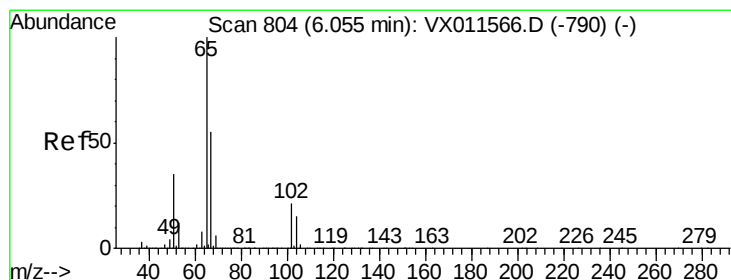
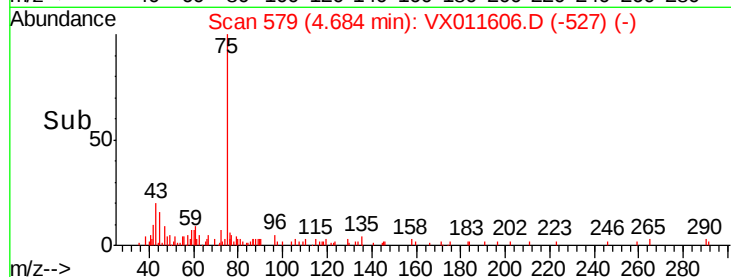
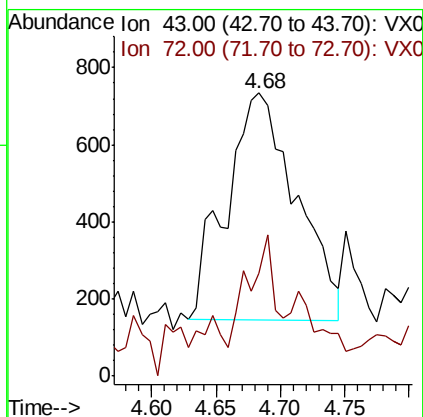
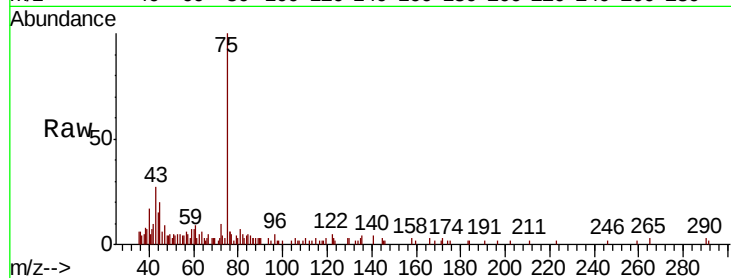




#25
2-Butanone
Concen: 0.670 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

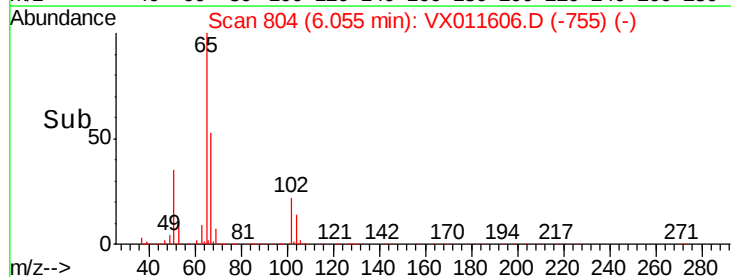
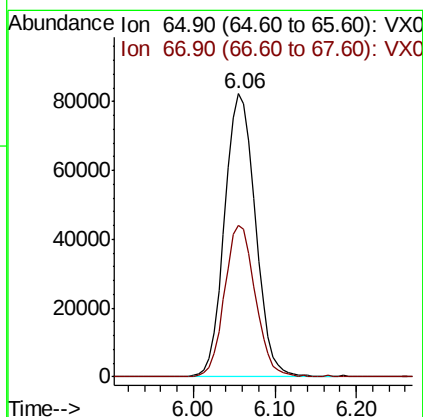
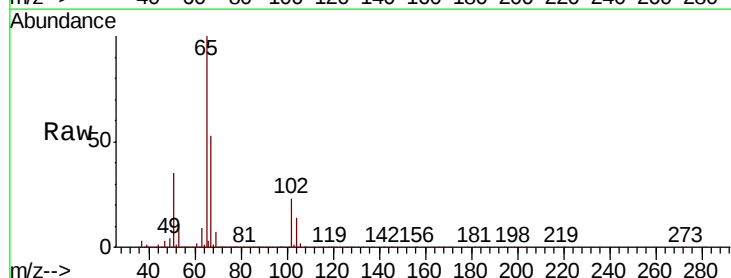
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A1-(0-1)

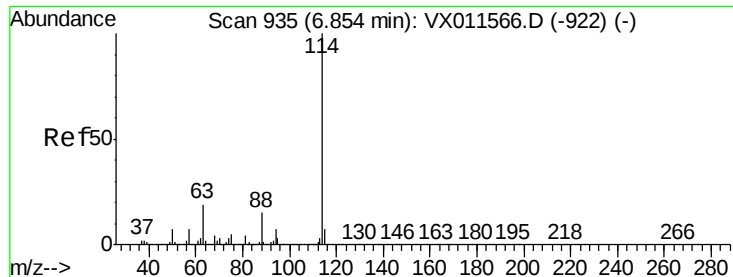
Tgt Ion: 43 Resp: 2223
Ion Ratio Lower Upper
43 100
72 32.9 22.2 33.4



#33
1,2-Dichloroethane-d4
Concen: 50.899 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

Tgt Ion: 65 Resp: 213937
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.6

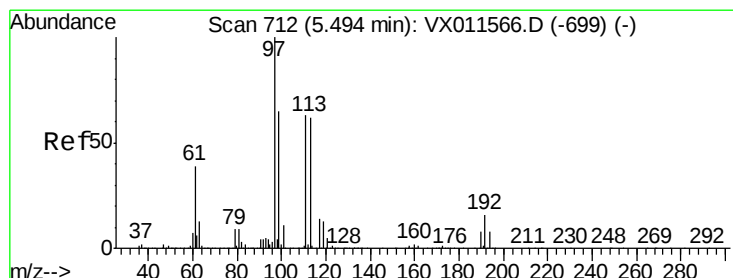
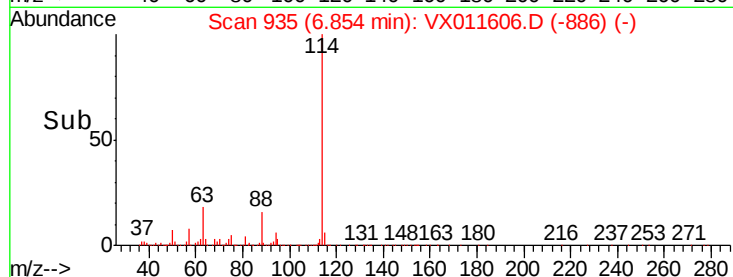
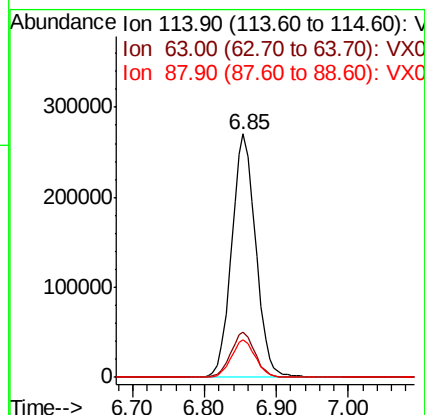
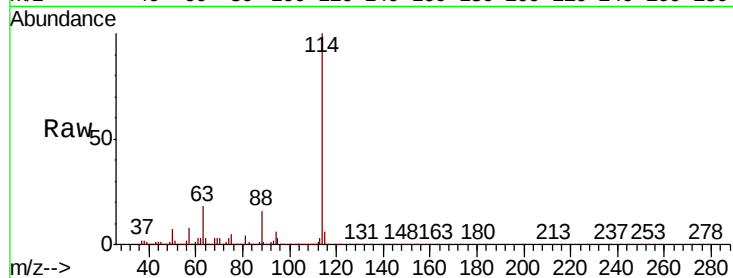




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011606.D
 Acq: 17 Aug 2019 02:11

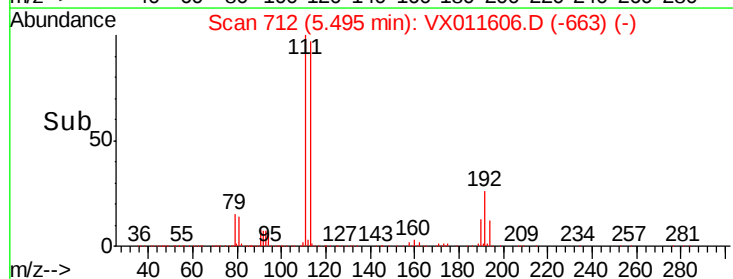
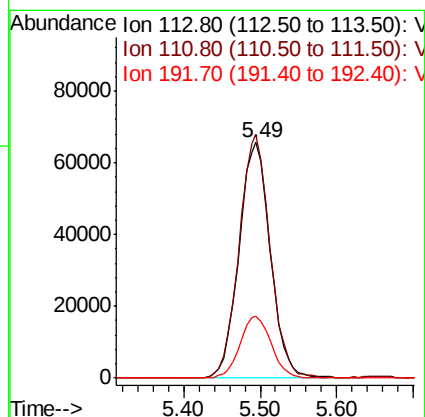
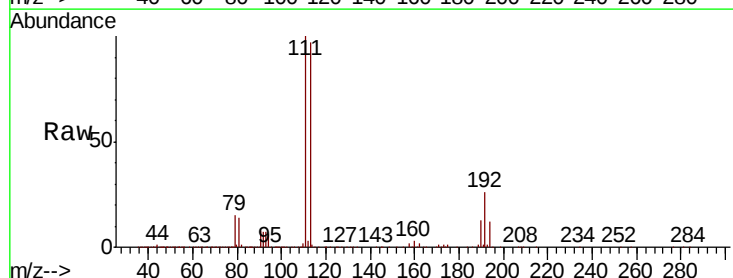
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A1-(0-1)

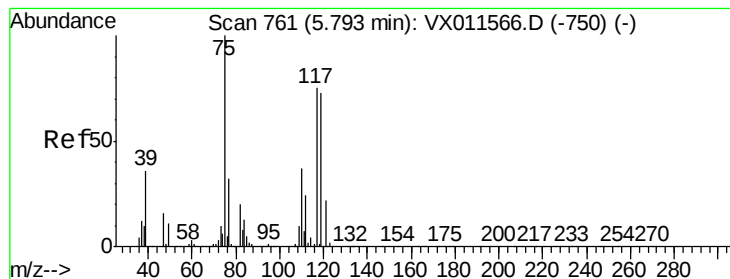
Tgt Ion:114 Resp: 627755
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 37.8
 88 15.5 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 45.374 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011606.D
 Acq: 17 Aug 2019 02:11

Tgt Ion:113 Resp: 186303
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.1 121.7
 192 26.4 20.8 31.2





#36

1,1-Dichloropropene

Concen: 4.904 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A1-(0-1)

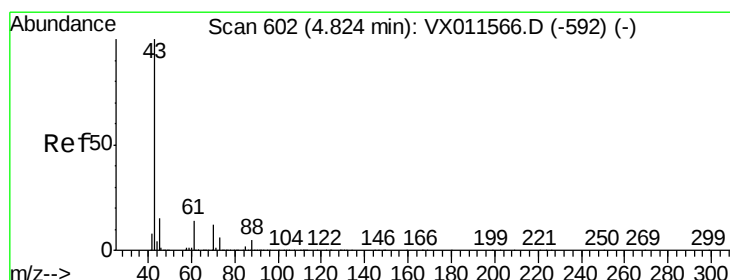
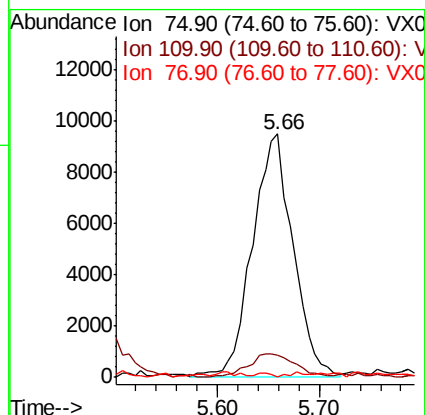
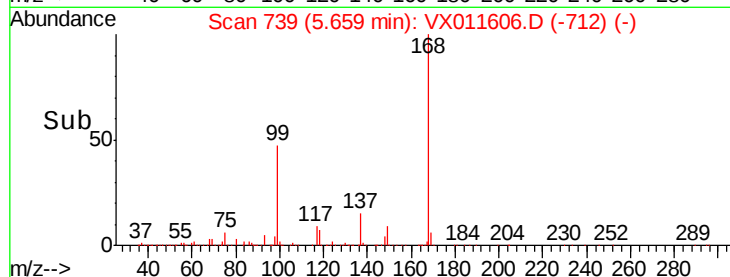
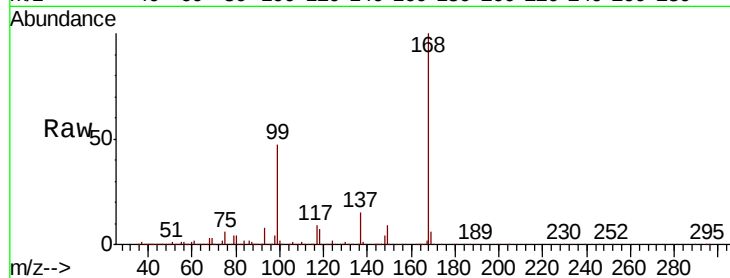
Tgt Ion: 75 Resp: 26321

Ion Ratio Lower Upper

75 100

110 0.0 19.4 58.1#

77 1.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.363 ug/l

RT: 4.68 min Scan# 579

Delta R.T. -0.14 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

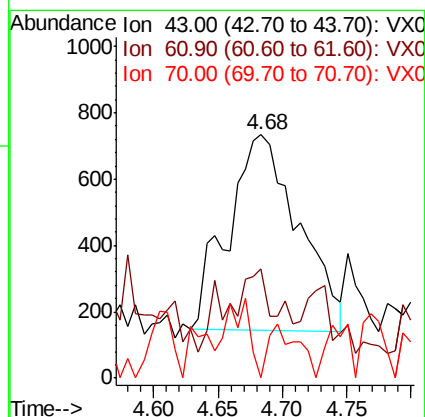
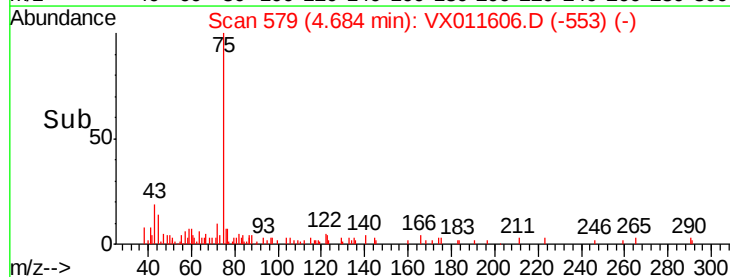
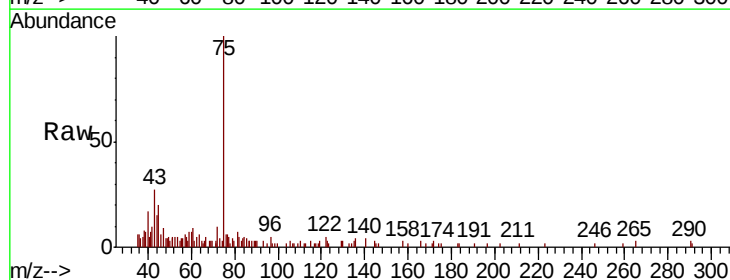
Tgt Ion: 43 Resp: 2241

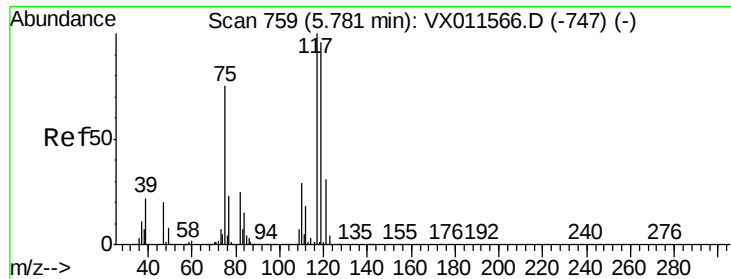
Ion Ratio Lower Upper

43 100

61 14.5 11.4 17.0

70 11.3 9.0 13.6

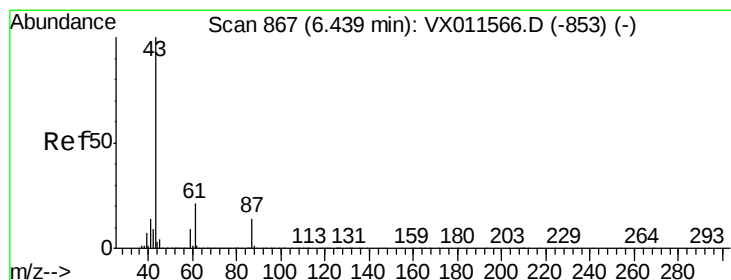
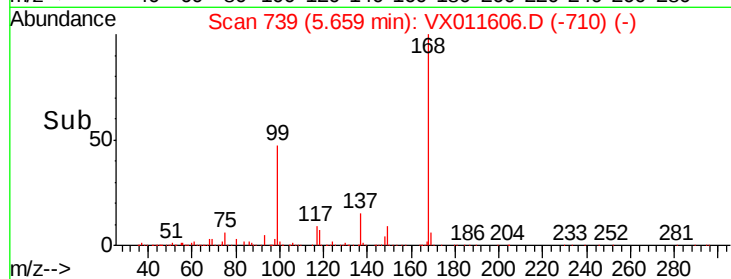
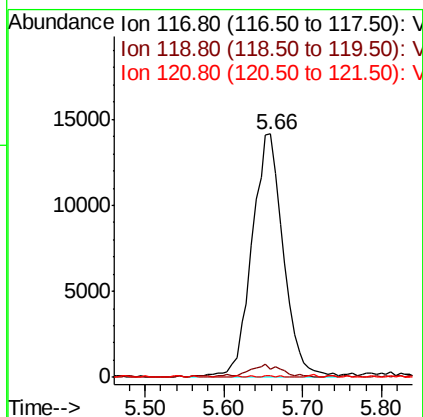
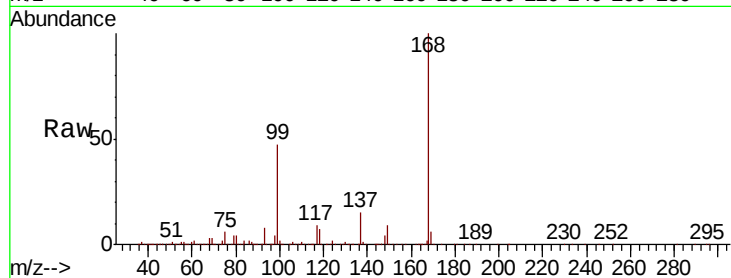




#38
Carbon Tetrachloride
Concen: 6.627 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

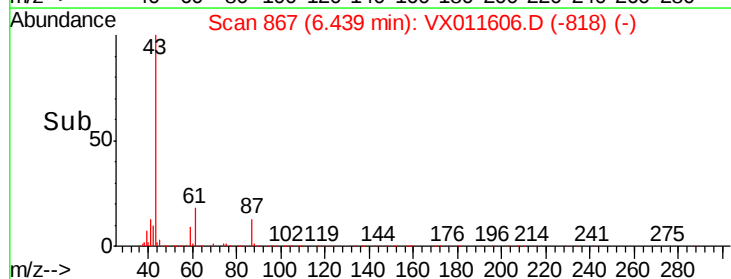
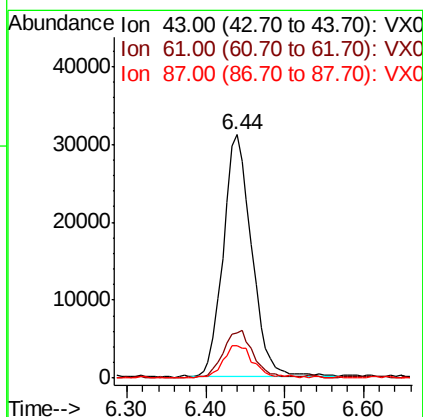
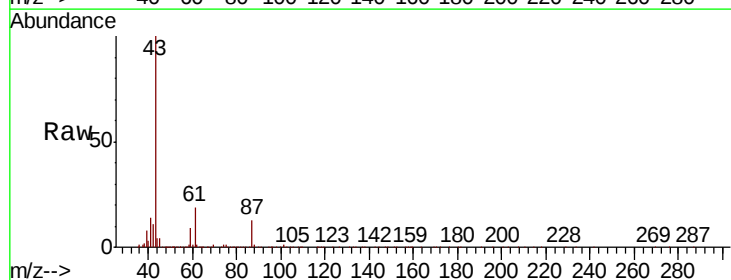
Instrument :
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REACTOR-4-A1-(0-1)

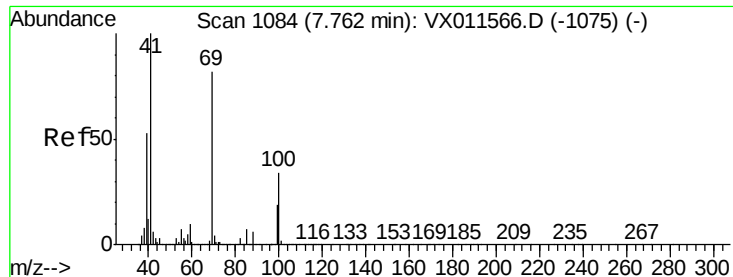
Tgt Ion:117 Resp: 39186
Ion Ratio Lower Upper
117 100
119 3.3 76.9 115.3#
121 0.6 24.8 37.2#



#43
Isopropyl Acetate
Concen: 8.146 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

Tgt Ion: 43 Resp: 78482
Ion Ratio Lower Upper
43 100
61 19.6 16.6 24.8
87 14.7 11.4 17.2

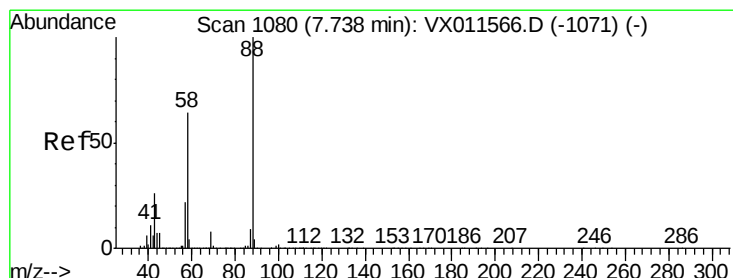
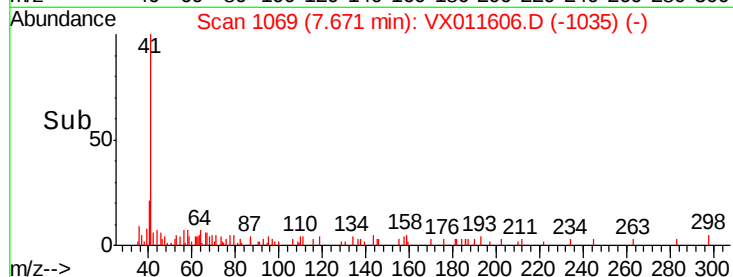
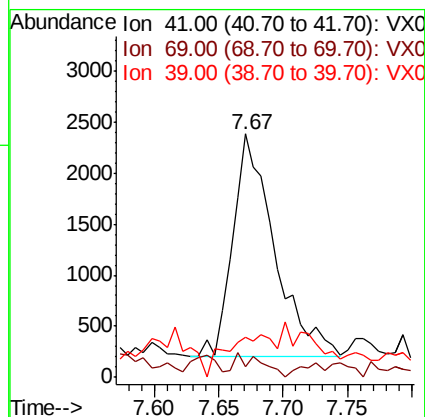
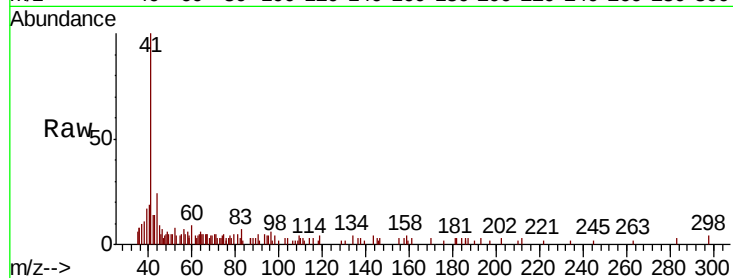




#48
Methyl methacrylate
Concen: 1.016 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

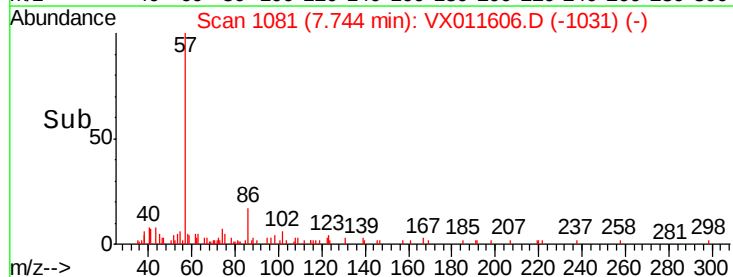
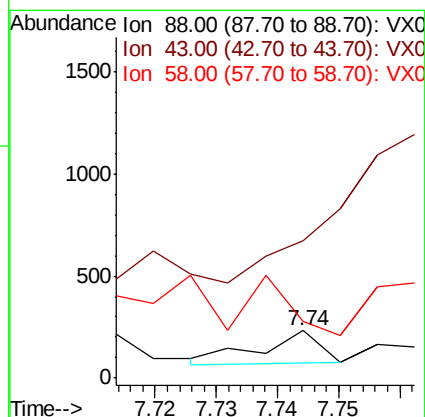
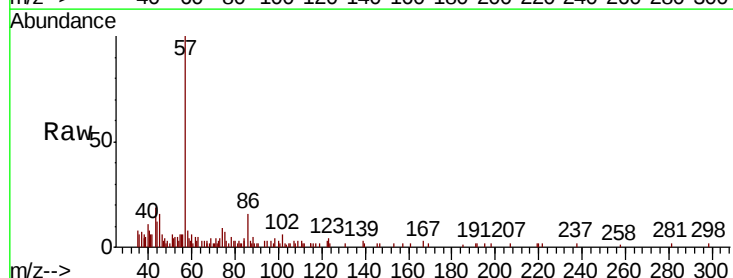
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A1-(0-1)

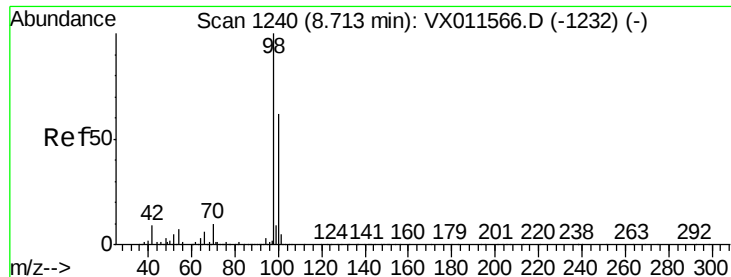
Tgt Ion: 41 Resp: 4846
Ion Ratio Lower Upper
41 100
69 7.2 67.9 101.9#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 0.827 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

Tgt Ion: 88 Resp: 105
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 726.7 54.3 81.5#





#50

Toluene-d8

Concen: 55.605 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

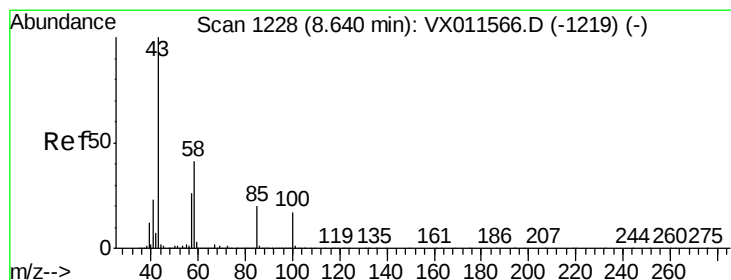
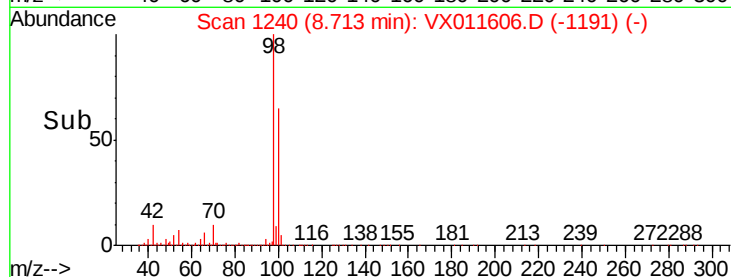
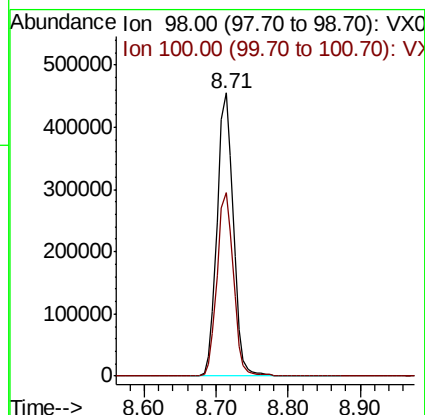
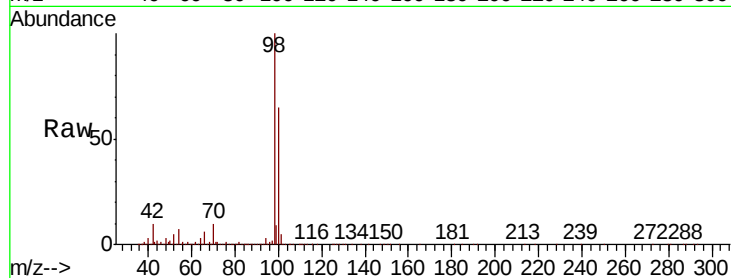
REACTOR-4-A1-(0-1)

Tgt Ion: 98 Resp: 711383

Ion Ratio Lower Upper

98 100

100 65.3 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 11.655 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011606.D

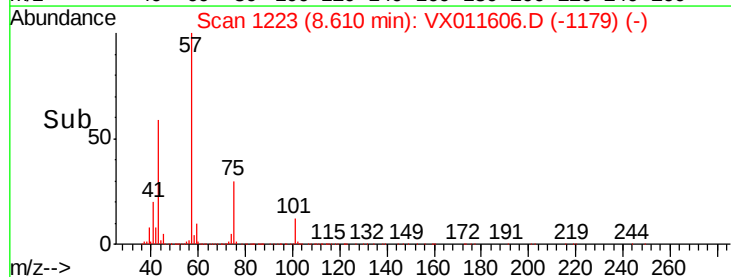
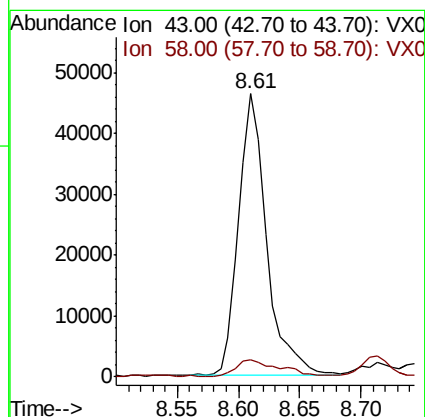
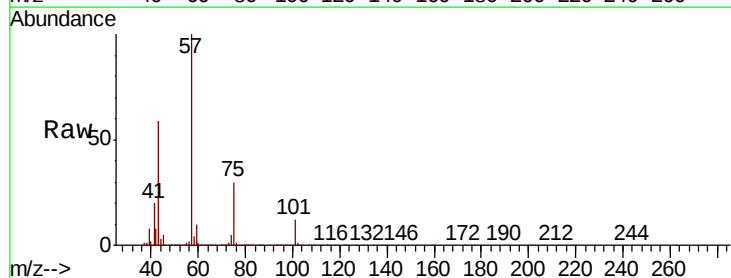
Acq: 17 Aug 2019 02:11

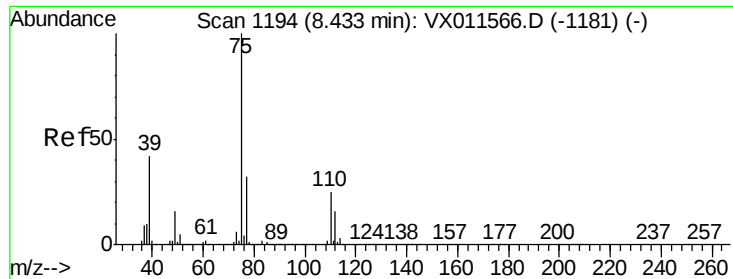
Tgt Ion: 43 Resp: 73498

Ion Ratio Lower Upper

43 100

58 9.5 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 5.706 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A1-(0-1)

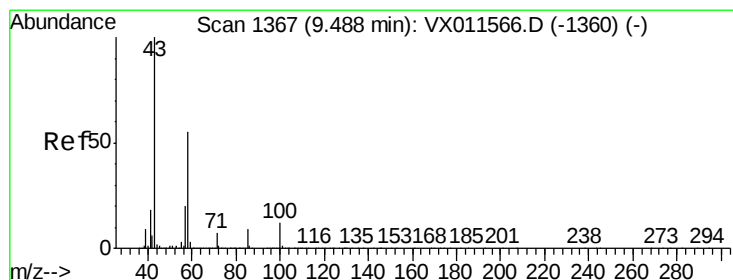
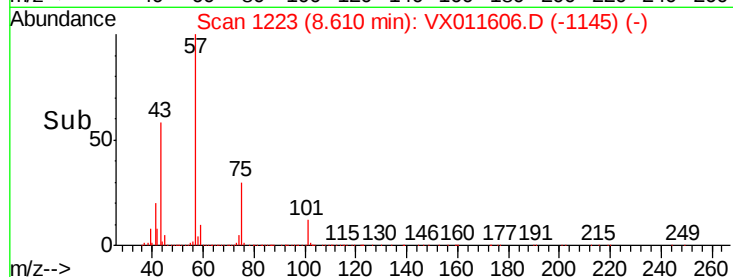
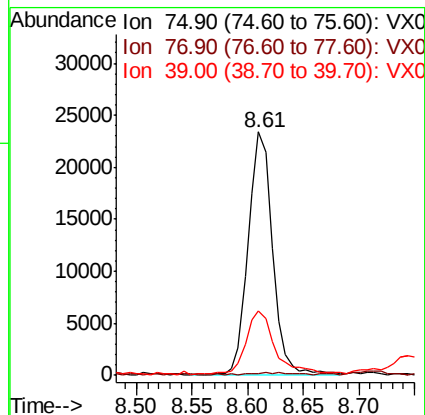
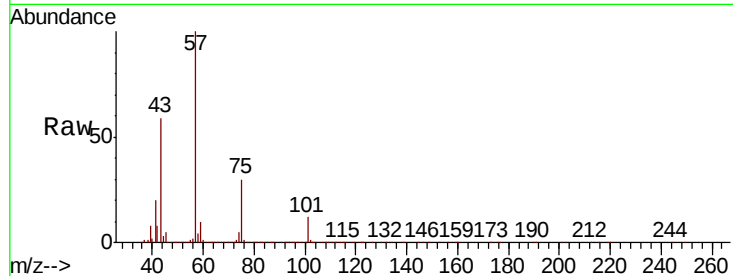
Tgt Ion: 75 Resp: 35968

Ion Ratio Lower Upper

75 100

77 0.1 25.5 38.3#

39 26.6 33.6 50.4#



#59

2-Hexanone

Concen: 17.326 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011606.D

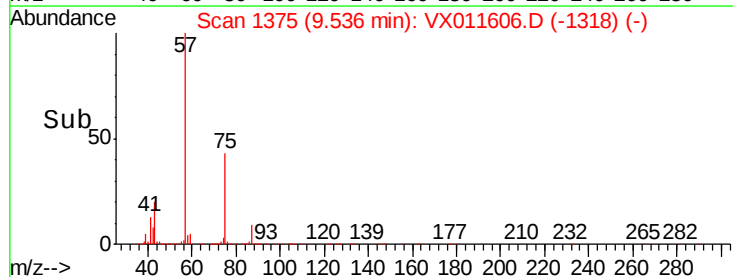
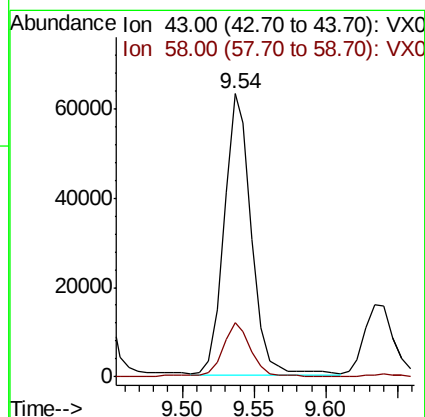
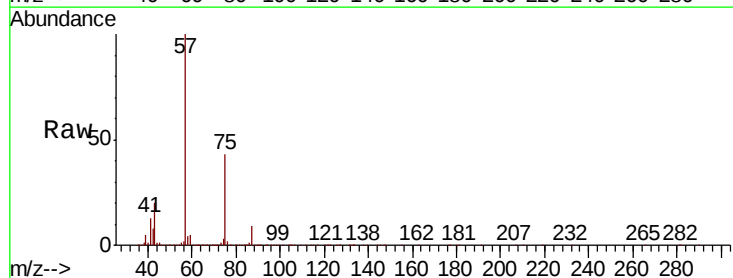
Acq: 17 Aug 2019 02:11

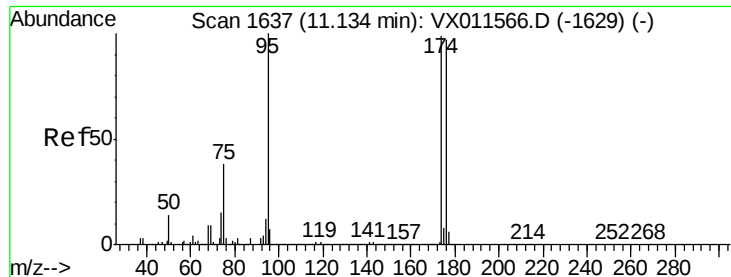
Tgt Ion: 43 Resp: 84256

Ion Ratio Lower Upper

43 100

58 19.1 27.5 82.4#

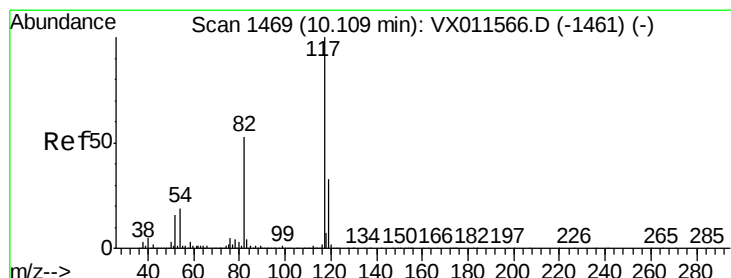
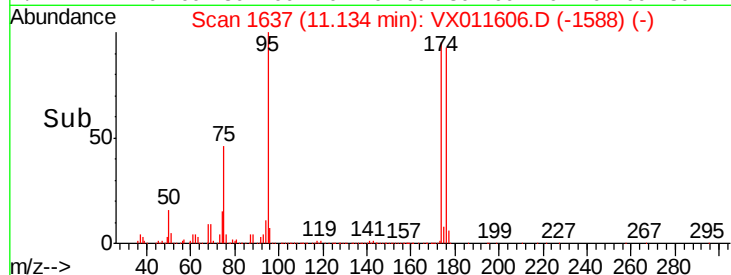
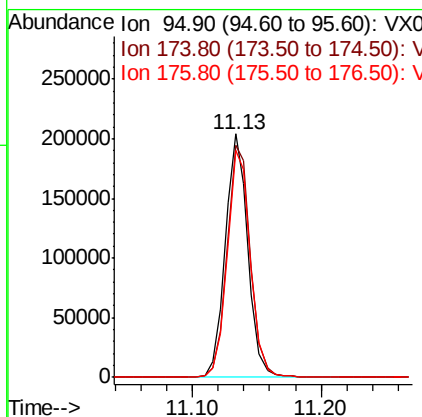
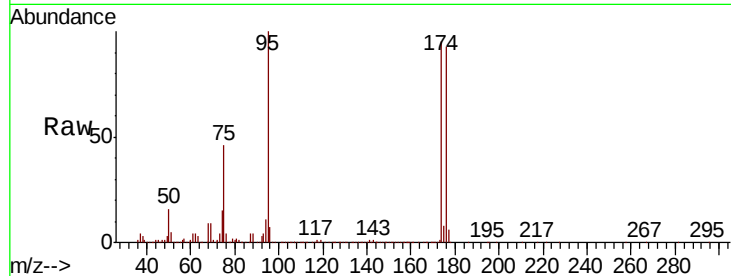




#62
4-Bromofluorobenzene
Concen: 46.474 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

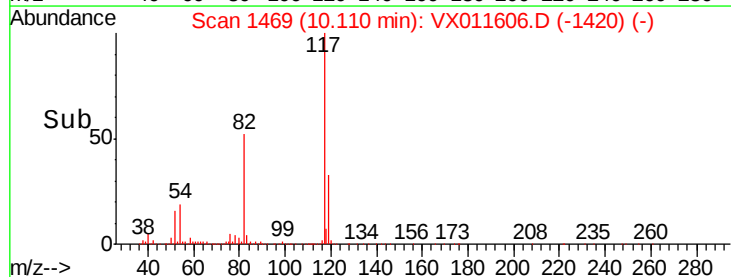
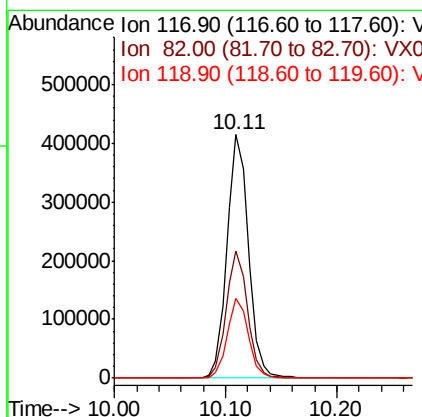
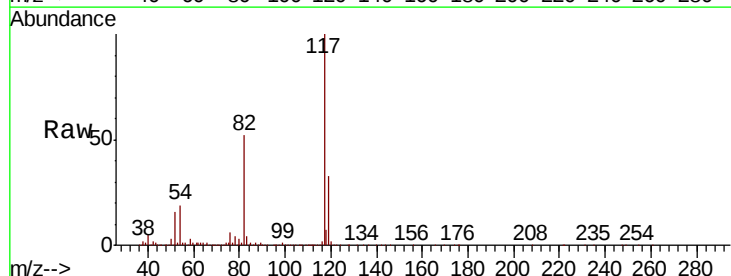
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A1-(0-1)

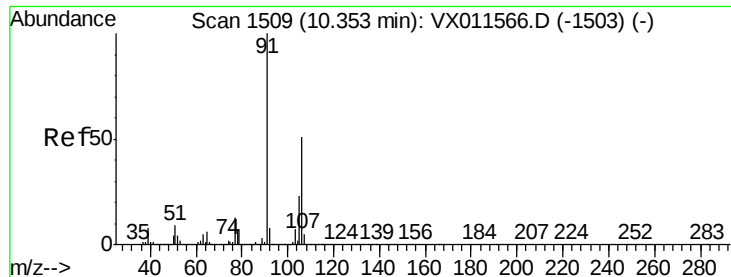
Tgt Ion: 95 Resp: 250959
Ion Ratio Lower Upper
95 100
174 98.7 0.0 200.6
176 95.6 0.0 196.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

Tgt Ion: 117 Resp: 552921
Ion Ratio Lower Upper
117 100
82 52.3 42.0 63.0
119 32.6 26.5 39.7

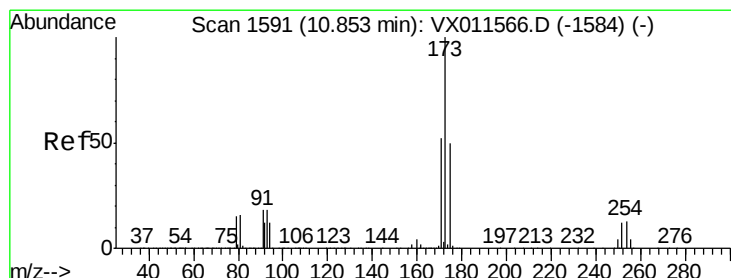
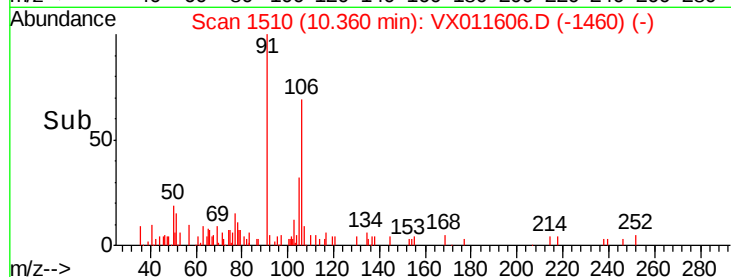
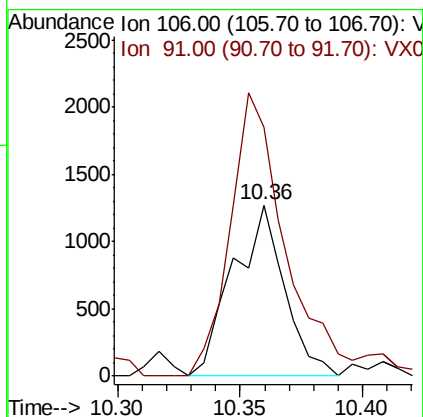
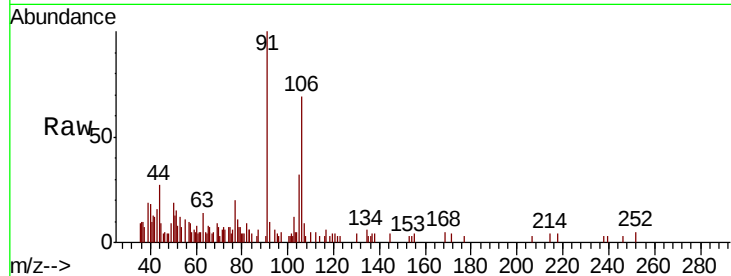




#68
m/p-Xylenes
Concen: 0.247 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.01 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

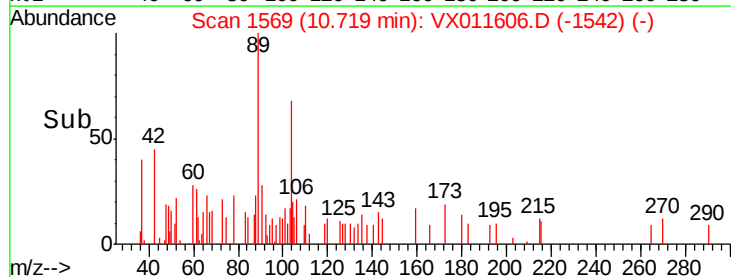
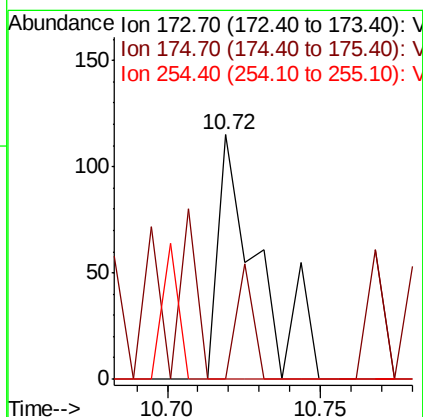
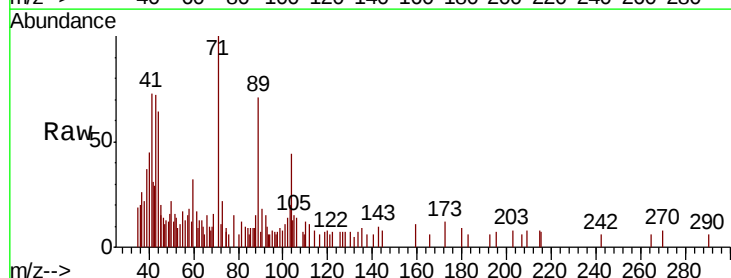
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A1-(0-1)

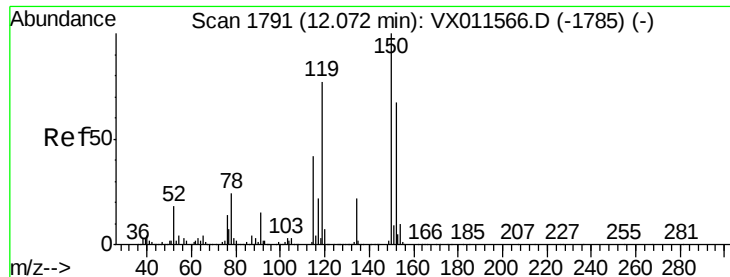
Tgt Ion:106 Resp: 1868
Ion Ratio Lower Upper
106 100
91 183.2 156.0 234.0



#71
Bromoform
Concen: 3.314 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. -0.13 min
Lab File: VX011606.D
Acq: 17 Aug 2019 02:11

Tgt Ion:173 Resp: 105
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 21.9 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A1-(0-1)

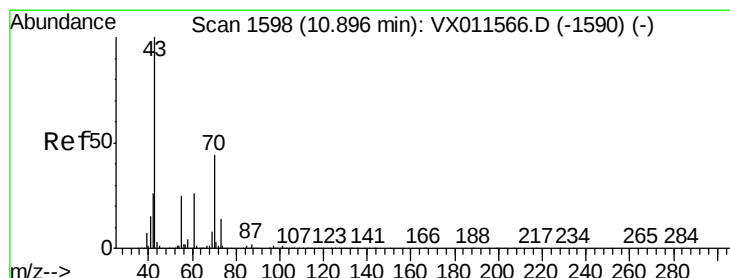
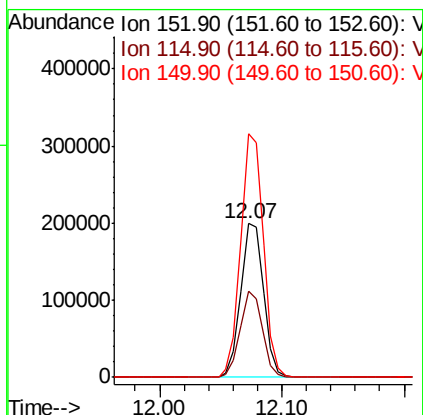
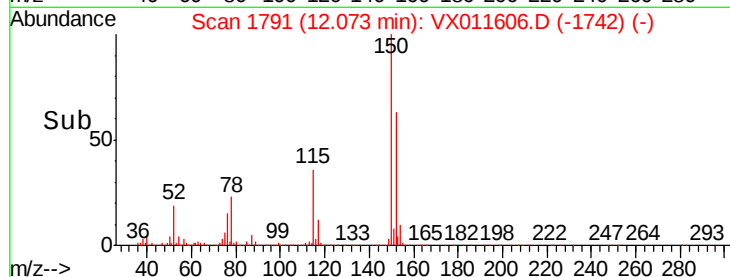
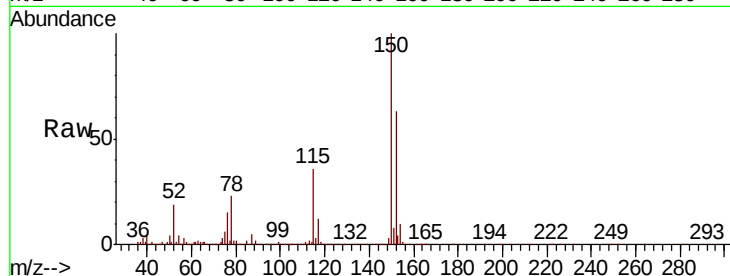
Tgt Ion:152 Resp: 257481

Ion Ratio Lower Upper

152 100

115 54.1 37.3 111.9

150 156.9 0.0 346.2



#74

N-aryl acetate

Concen: 0.525 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011606.D

Acq: 17 Aug 2019 02:11

Tgt Ion: 43 Resp: 3726

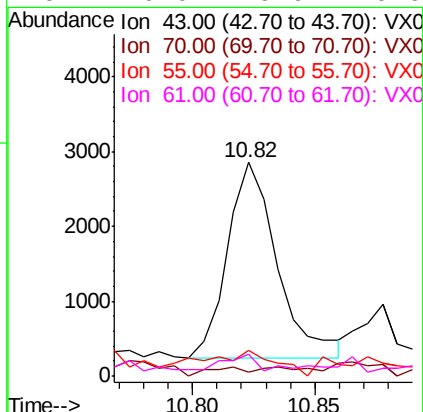
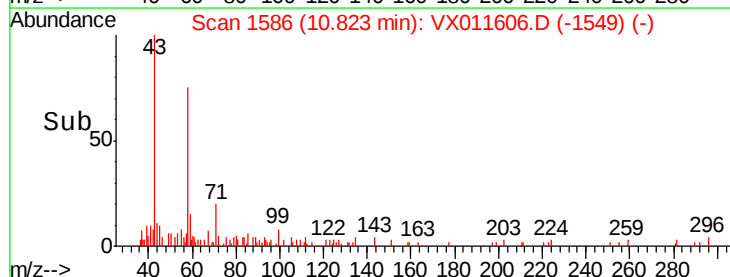
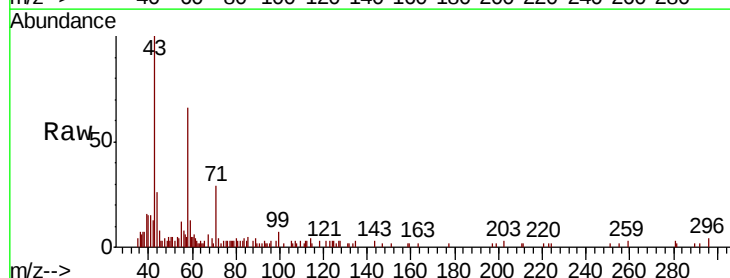
Ion Ratio Lower Upper

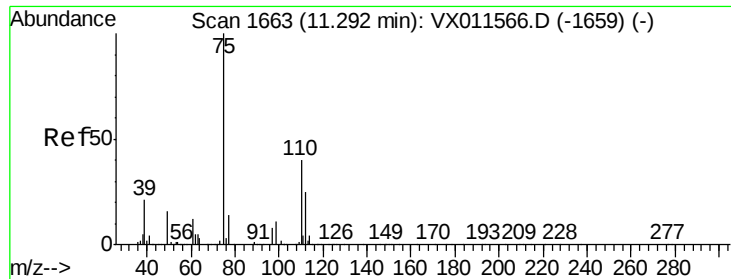
43 100

70 3.5 34.7 52.1#

55 19.3 19.6 29.4#

61 0.0 19.9 29.9#

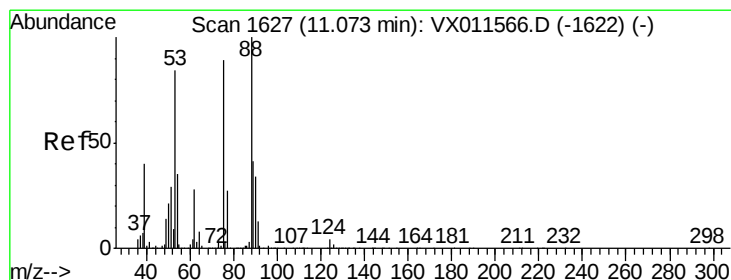
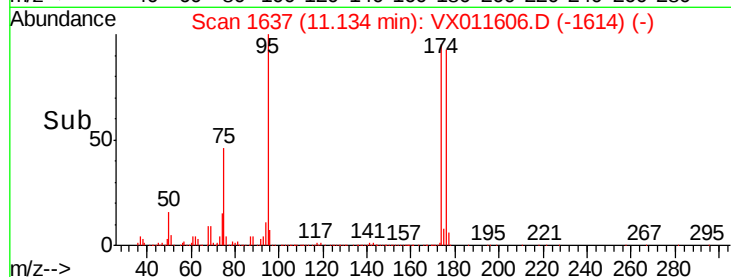
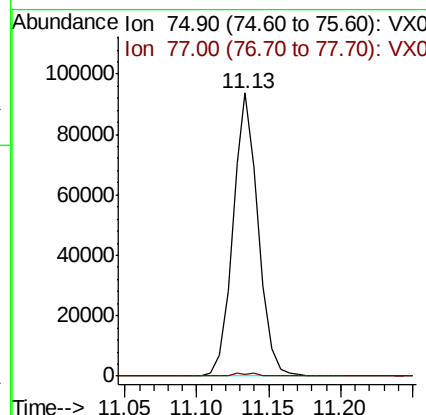
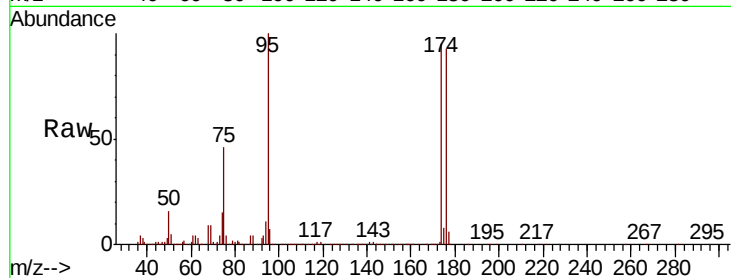




#76
 1,2,3-Trichloropropane
 Concen: 23.374 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011606.D
 Acq: 17 Aug 2019 02:11

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A1-(0-1)

Tgt Ion: 75 Resp: 114120
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.123 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011606.D
 Acq: 17 Aug 2019 02:11

Tgt Ion: 75 Resp: 114120
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.4 116.0#
 89 0.0 37.3 55.9#

