

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011506.D
 Acq On : 13 Aug 2019 00:49
 Operator : JC/SP
 Sample : K4230-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3A-(2)

Quant Time: Aug 13 07:46:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	191034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	288935	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	267879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116534	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	106670	55.45	ug/l	0.00
Spiked Amount			Recovery	=	110.90%	
35) Dibromofluoromethane	5.49	113	88766	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	
50) Toluene-d8	8.71	98	346392	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	11.13	95	112202	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	

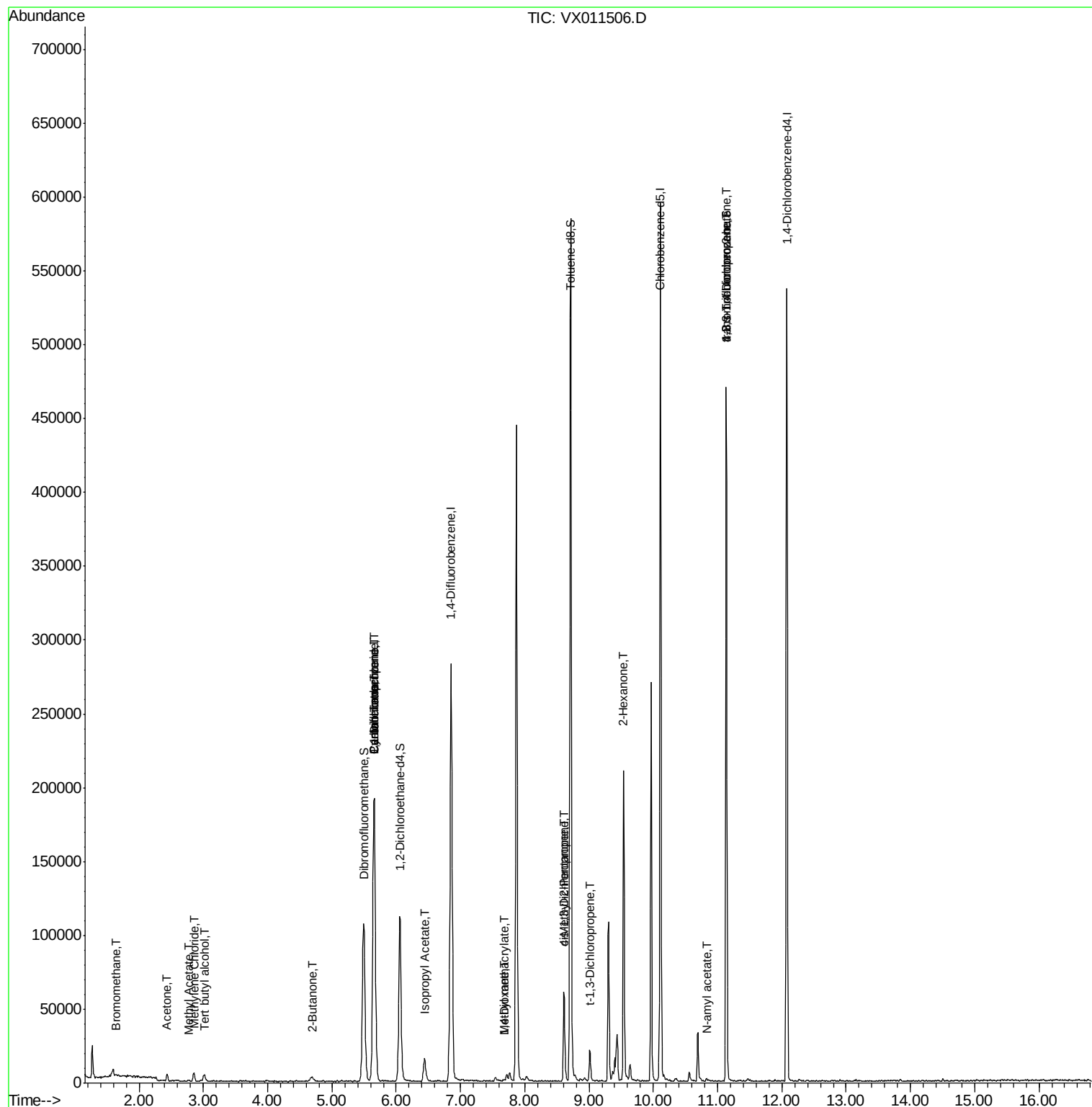
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	387	0.298	ug/l #	32
6) Chloroethane	1.73	64	284	Below Cal	#	60
11) Tert butyl alcohol	3.02	59	2718	7.107	ug/l #	76
13) Acrolein	2.29	56	53	Below Cal		86
16) Acetone	2.43	43	4275	4.669	ug/l	97
18) Methyl Acetate	2.76	43	1510	0.722	ug/l	91
20) Methylene Chloride	2.85	84	2309	1.151	ug/l	90
25) 2-Butanone	4.68	43	1141	0.876	ug/l #	88
31) Cyclohexane	5.65	56	3815	1.540	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13440	5.328	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18019	7.100	ug/l #	15
43) Isopropyl Acetate	6.45	43	20746	5.128	ug/l	98
48) Methyl methacrylate	7.68	41	1322	0.694	ug/l #	10
49) 1,4-Dioxane	7.69	88	27	0.489	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	20390	7.810	ug/l #	51
53) t-1,3-Dichloropropene	9.01	75	19	2.845	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	9616	3.416	ug/l #	68
59) 2-Hexanone	9.54	43	25483	12.601	ug/l #	52
74) N-amyl acetate	10.82	43	1119	0.389	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	58504	27.567	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	58504	71.474	ug/l #	10

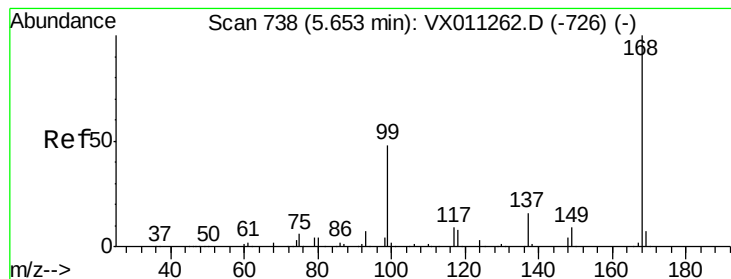
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

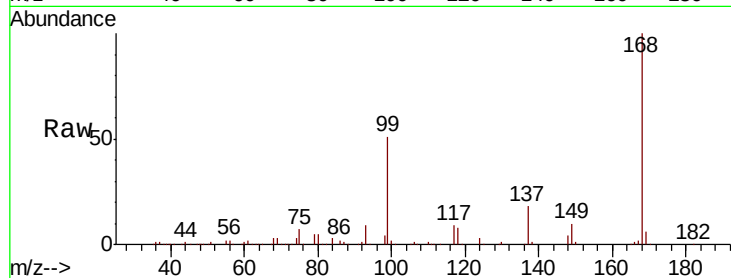
REACTOR-3A-(2)

Tgt Ion: 168 Resp: 191034

Ion Ratio Lower Upper

168 100

99 51.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

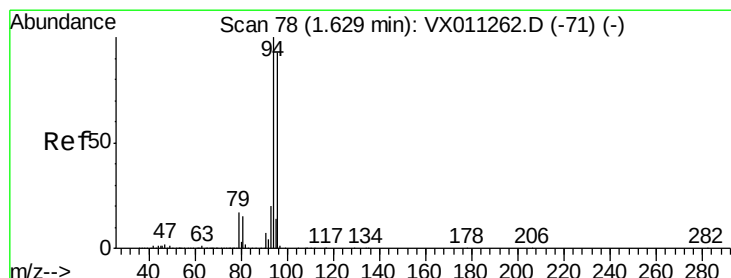
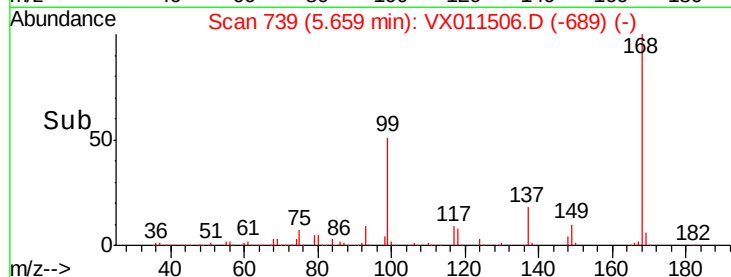
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.298 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011506.D

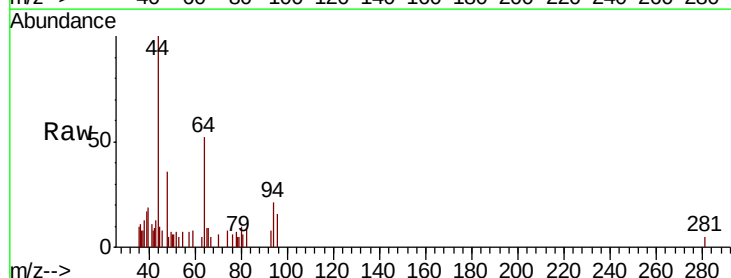
Acq: 13 Aug 2019 00:49

Tgt Ion: 94 Resp: 387

Ion Ratio Lower Upper

94 100

96 28.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

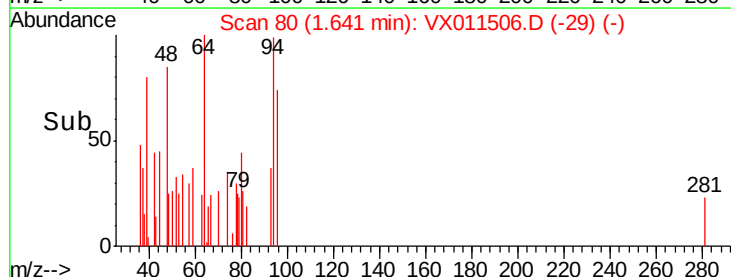
150

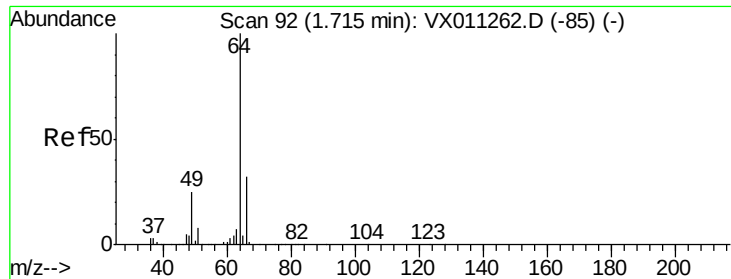
100

50

0

Time--> 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

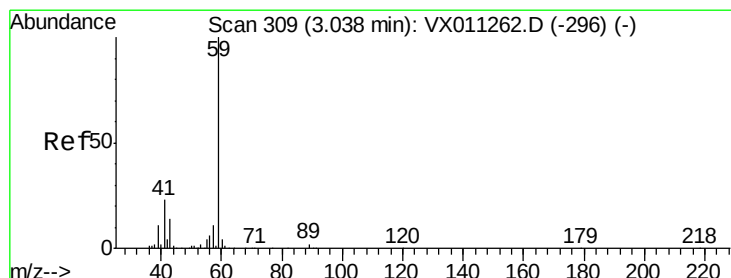
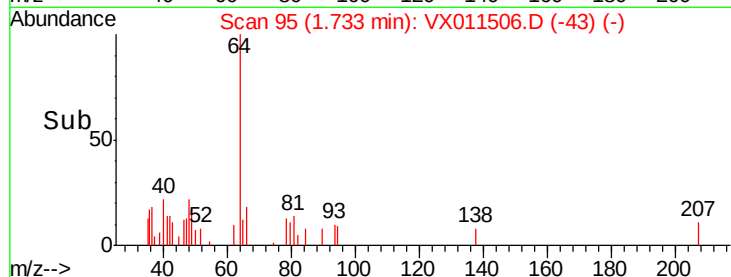
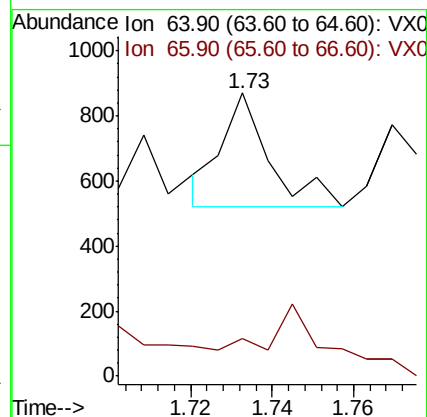
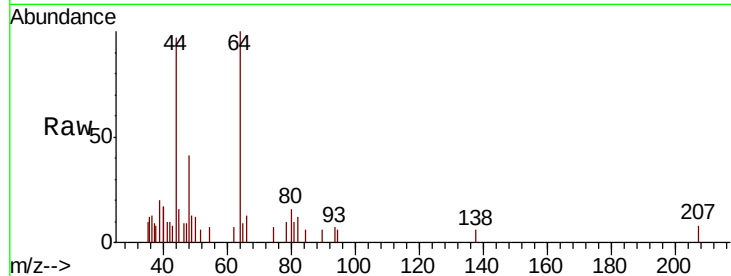
REACTOR-3A-(2)

Tgt Ion: 64 Resp: 284

Ion Ratio Lower Upper

64 100

66 9.1 25.1 37.7#



#11

Tert butyl alcohol

Concen: 7.107 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011506.D

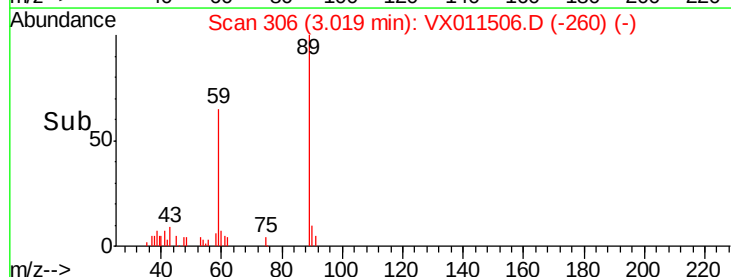
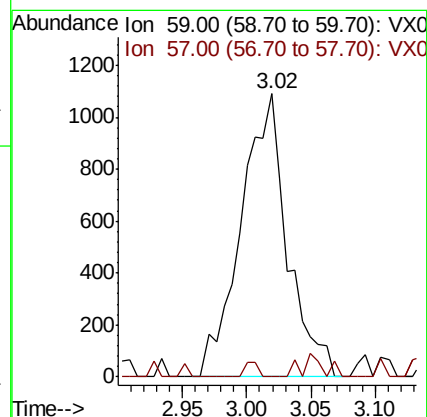
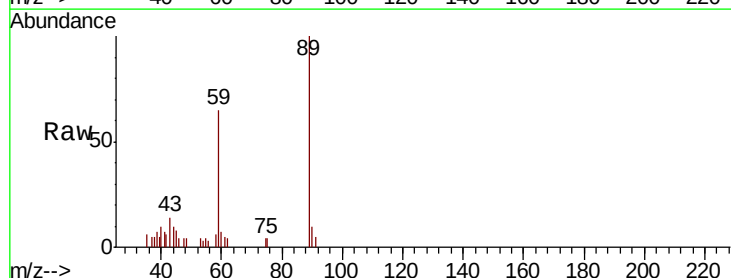
Acq: 13 Aug 2019 00:49

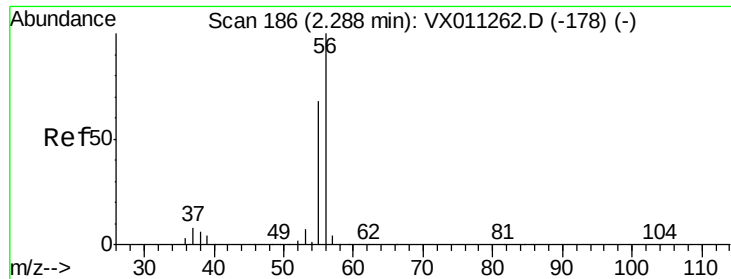
Tgt Ion: 59 Resp: 2718

Ion Ratio Lower Upper

59 100

57 1.5 8.3 12.5#

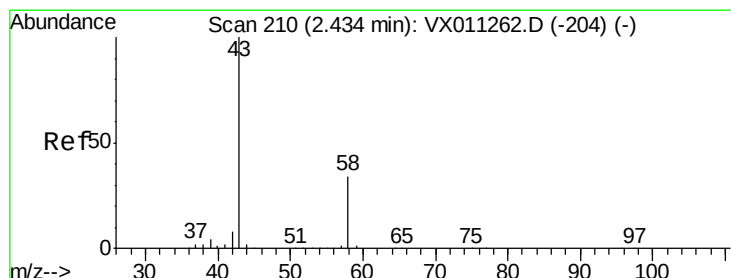
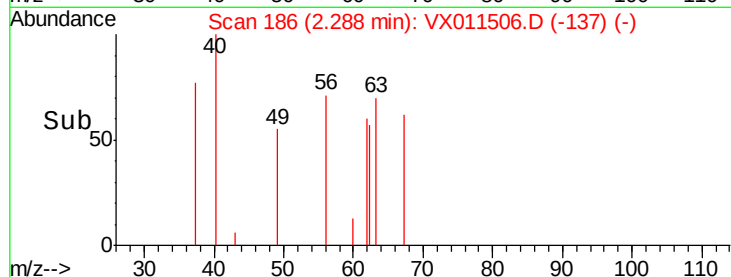
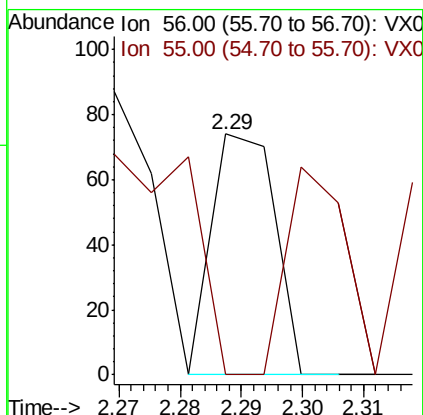
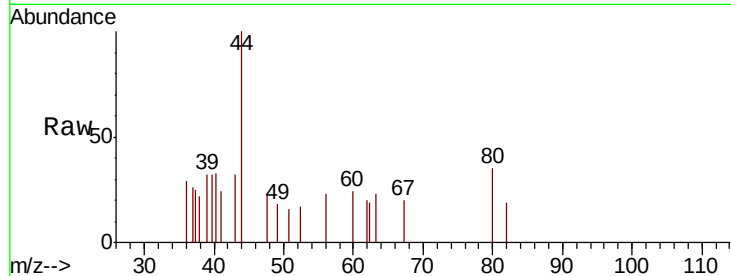




#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 186
Delta R.T. 0.00 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

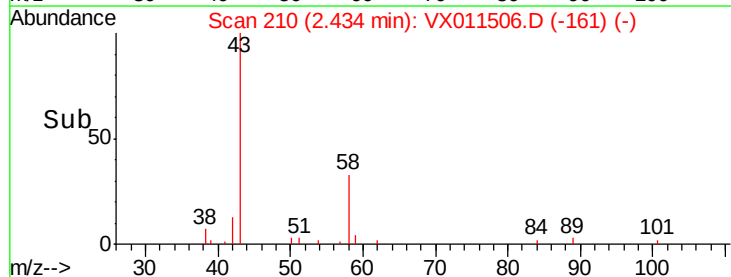
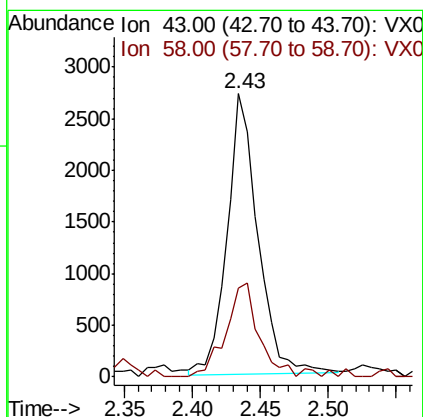
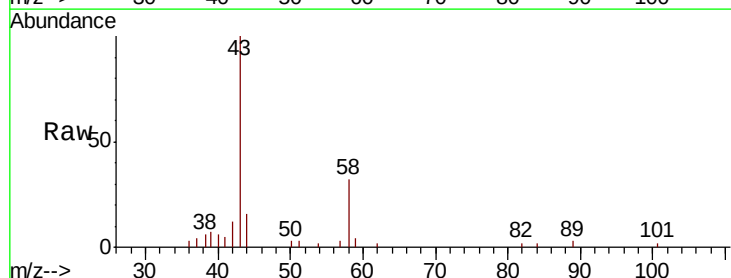
Instrument :
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REACTOR-3A-(2)

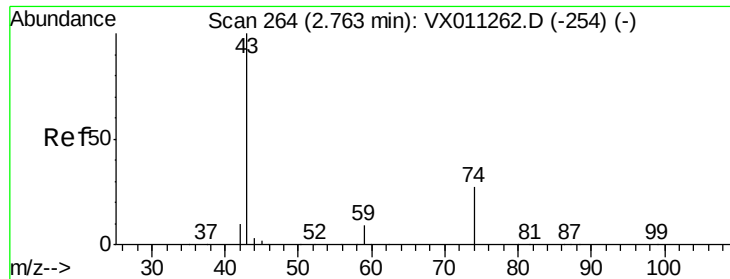
Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 81.1 56.0 84.0



#16
Acetone
Concen: 4.669 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

Tgt Ion: 43 Resp: 4275
Ion Ratio Lower Upper
43 100
58 32.2 27.4 41.0

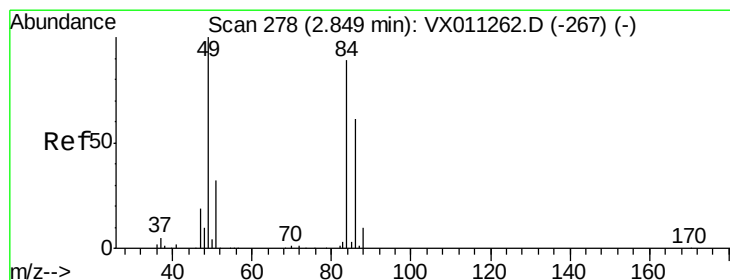
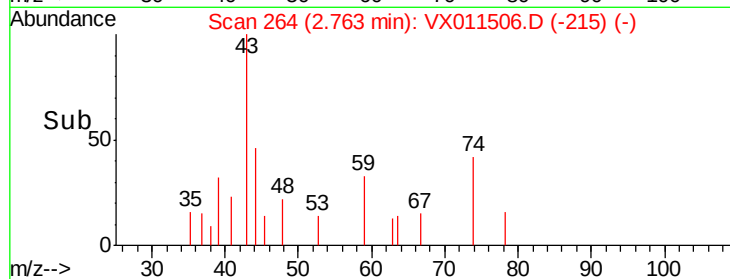
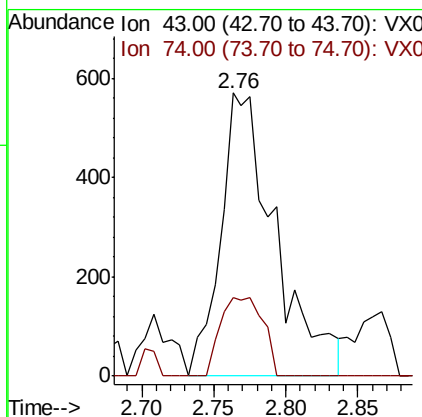
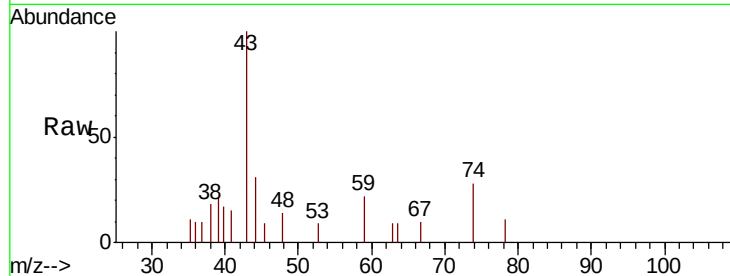




#18
Methyl Acetate
Concen: 0.722 ug/l
RT: 2.76 min Scan# 264
Delta R.T. -0.00 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

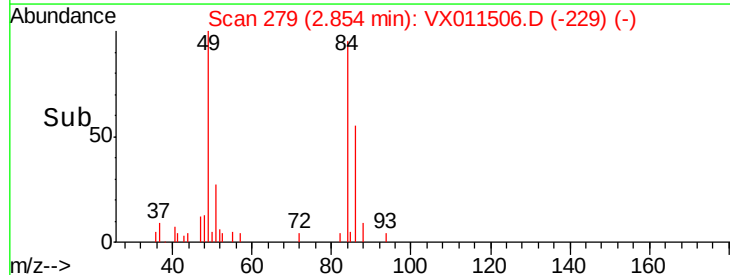
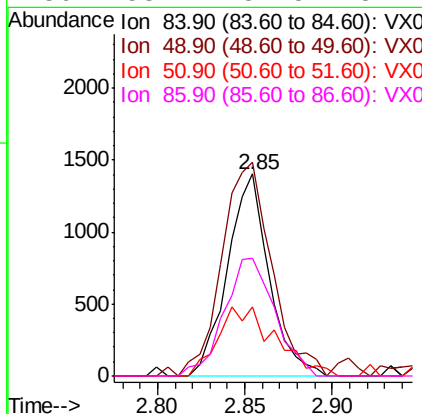
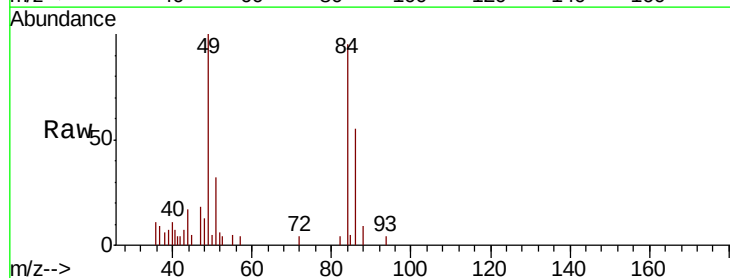
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3A-(2)

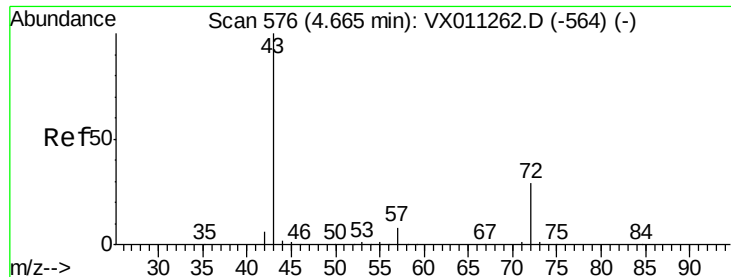
Tgt Ion: 43 Resp: 1510
Ion Ratio Lower Upper
43 100
74 21.6 21.0 31.6



#20
Methylene Chloride
Concen: 1.151 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

Tgt Ion: 84 Resp: 2309
Ion Ratio Lower Upper
84 100
49 99.5 89.3 133.9
51 34.1 28.3 42.5
86 58.2 54.5 81.7





#25

2-Butanone

Concen: 0.876 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

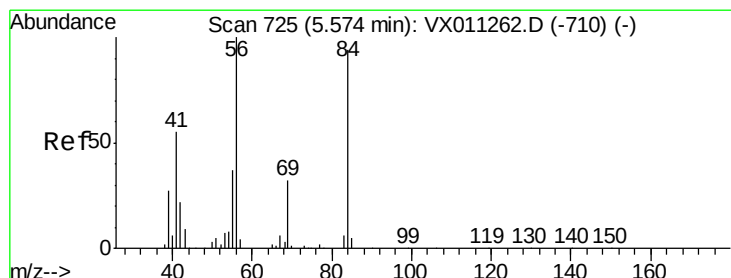
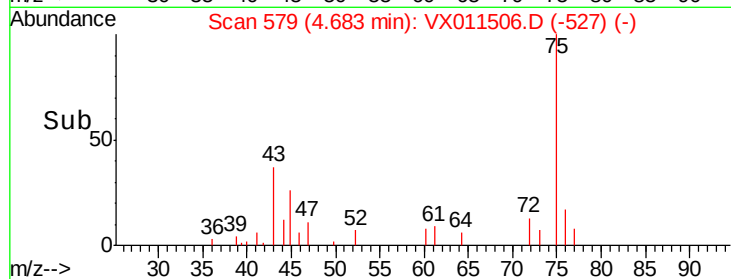
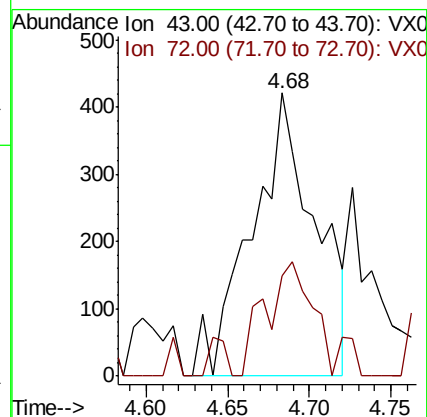
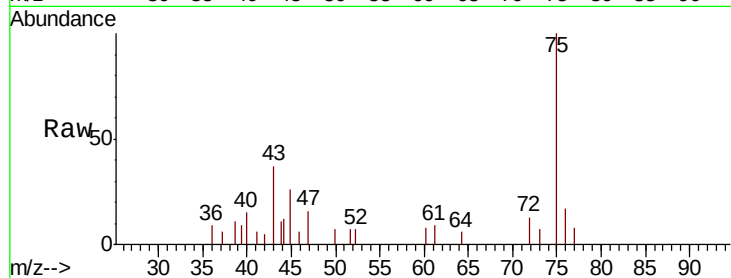
REACTOR-3A-(2)

Tgt Ion: 43 Resp: 1141

Ion Ratio Lower Upper

43 100

72 35.2 23.2 34.8#



#31

Cyclohexane

Concen: 1.540 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

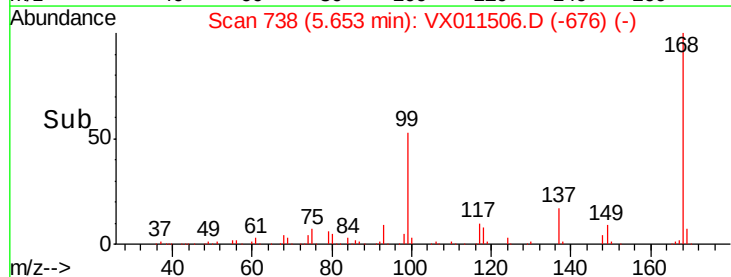
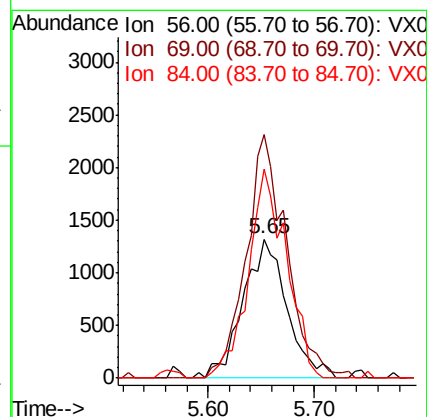
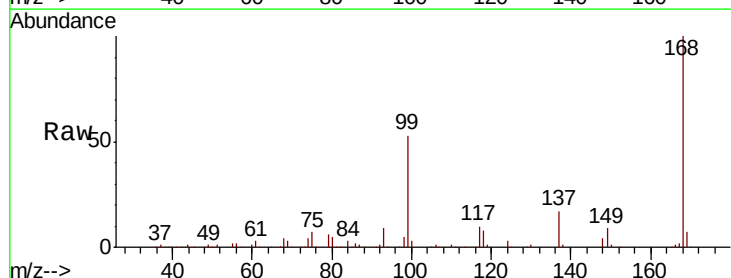
Tgt Ion: 56 Resp: 3815

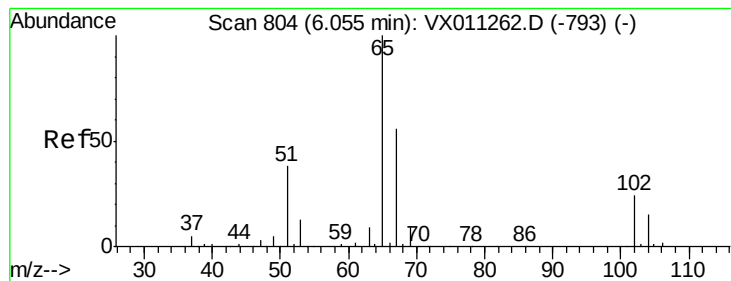
Ion Ratio Lower Upper

56 100

69 175.6 25.5 38.3#

84 150.5 75.0 112.4#





#33

1,2-Dichloroethane-d4

Concen: 55.447 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

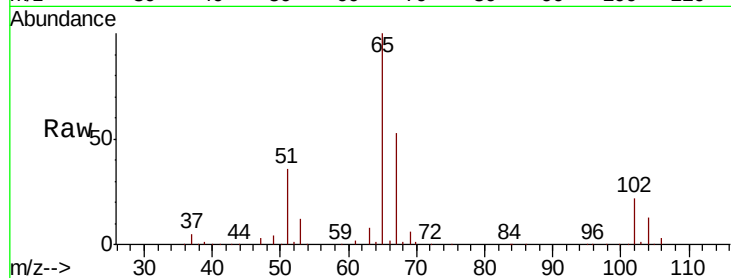
REACTOR-3A-(2)

Tgt Ion: 65 Resp: 106670

Ion Ratio Lower Upper

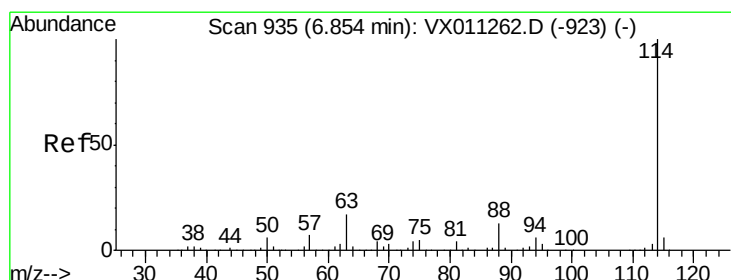
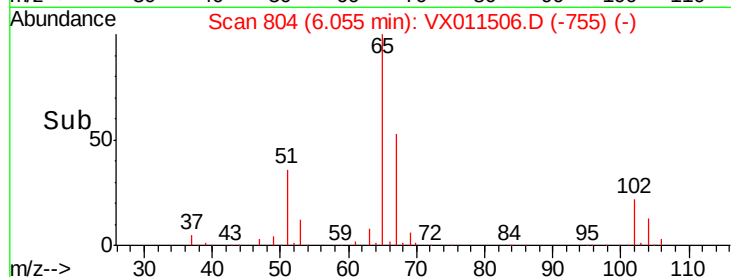
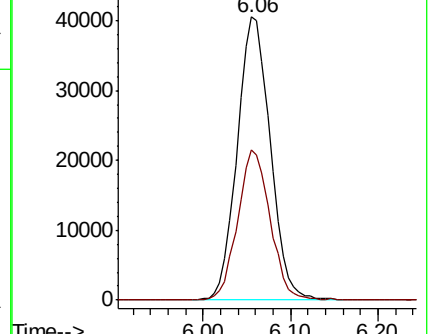
65 100

67 51.9 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

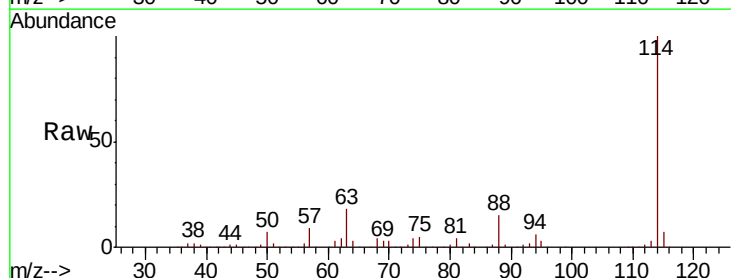
Tgt Ion: 114 Resp: 288935

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.0

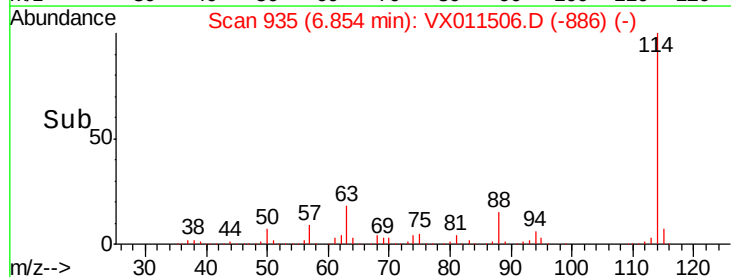
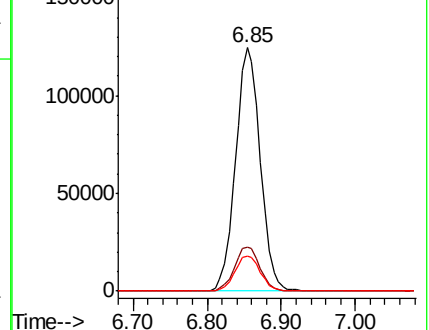
88 14.6 0.0 26.4

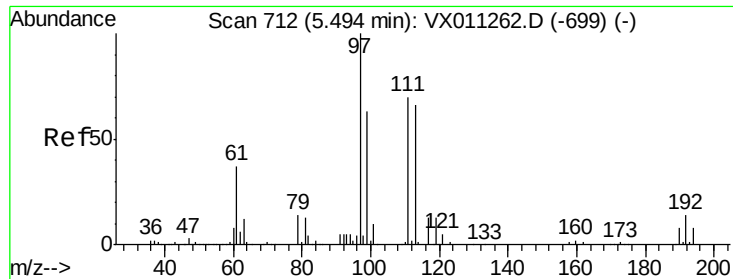


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

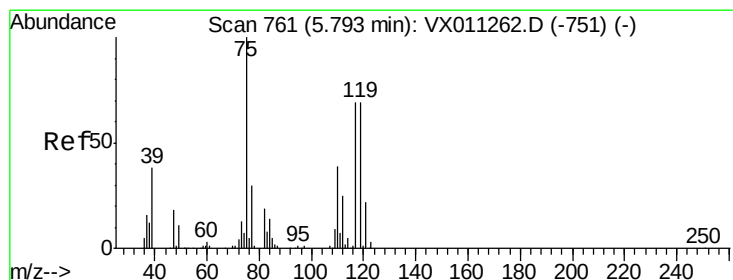
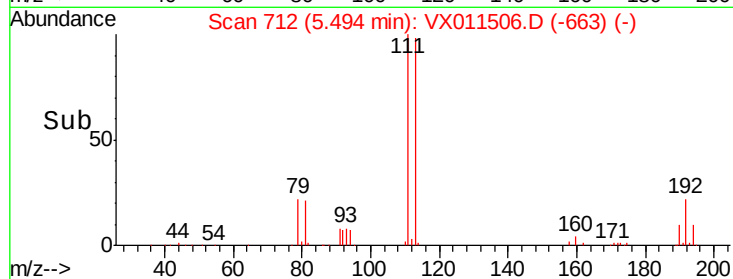
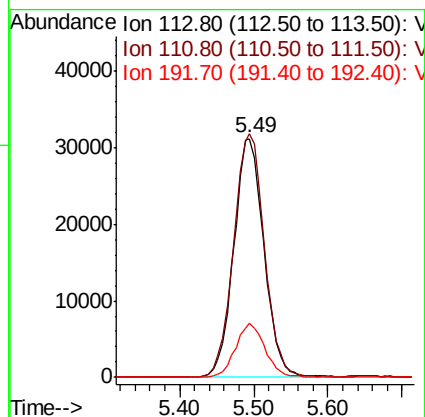
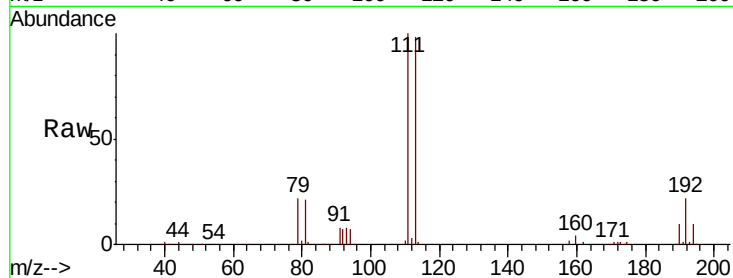




#35
 Dibromofluoromethane
 Concen: 47.056 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011506.D
 Acq: 13 Aug 2019 00:49

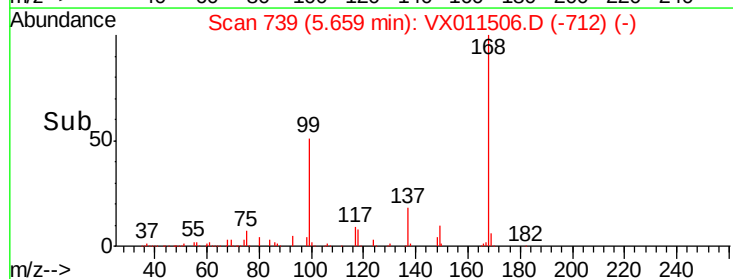
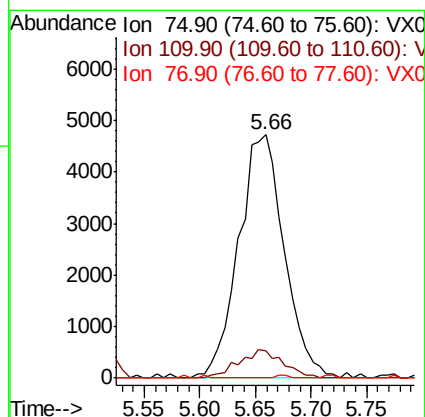
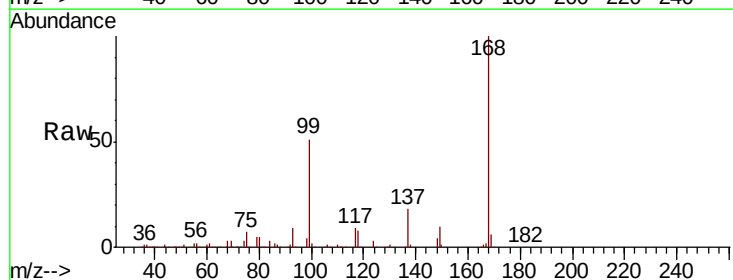
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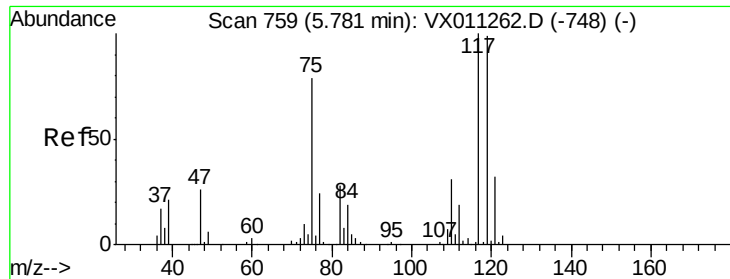
Tgt Ion:113 Resp: 88766
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.9 122.9
 192 22.1 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.328 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011506.D
 Acq: 13 Aug 2019 00:49

Tgt Ion: 75 Resp: 13440
 Ion Ratio Lower Upper
 75 100
 110 11.4 20.0 59.9#
 77 0.0 24.8 37.2#

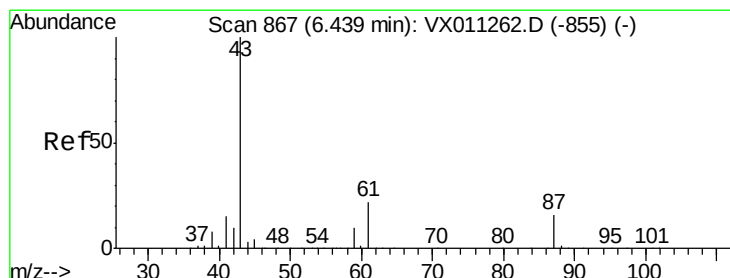
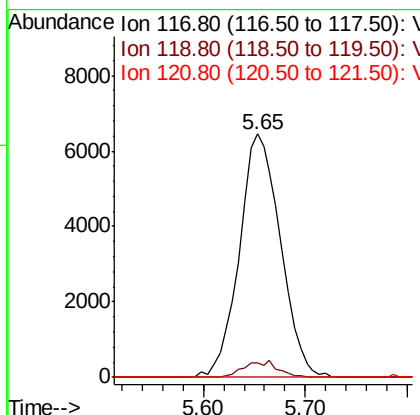
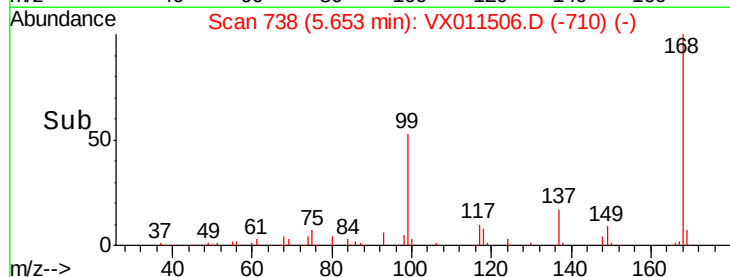
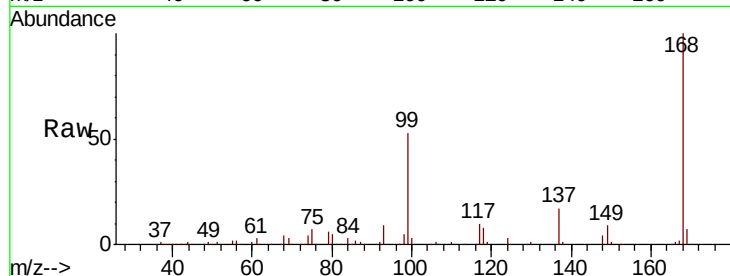




#38
 Carbon Tetrachloride
 Concen: 7.100 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011506.D
 Acq: 13 Aug 2019 00:49

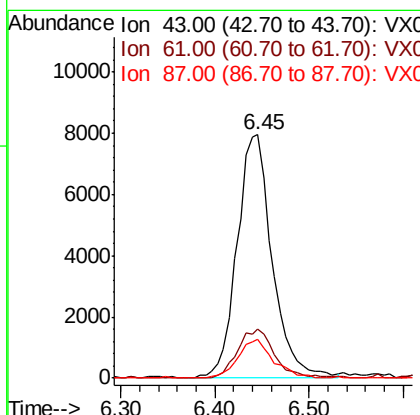
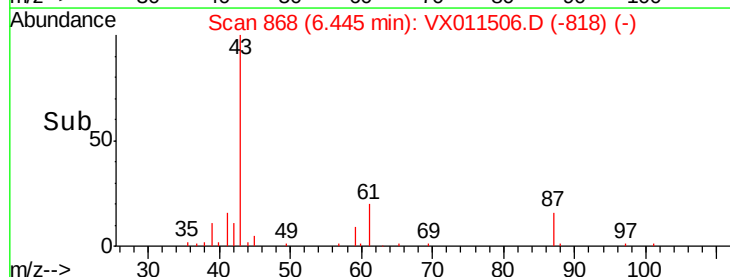
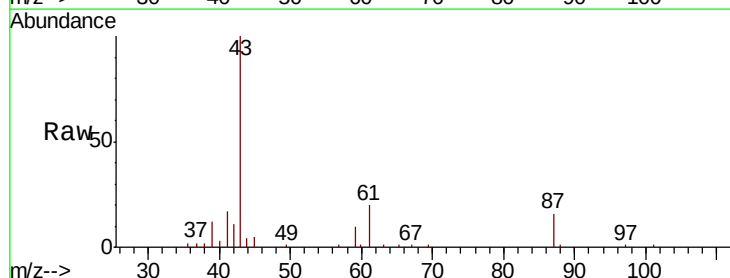
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3A-(2)

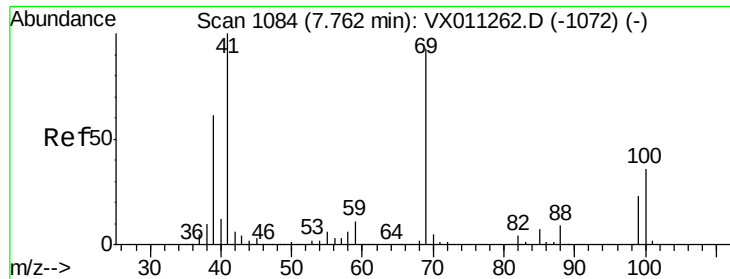
Tgt Ion:117 Resp: 18019
 Ion Ratio Lower Upper
 117 100
 119 6.0 79.0 118.4#
 121 0.0 25.9 38.9#



#43
 Isopropyl Acetate
 Concen: 5.128 ug/l
 RT: 6.45 min Scan# 868
 Delta R.T. 0.01 min
 Lab File: VX011506.D
 Acq: 13 Aug 2019 00:49

Tgt Ion: 43 Resp: 20746
 Ion Ratio Lower Upper
 43 100
 61 21.3 16.5 24.7
 87 15.9 12.1 18.1

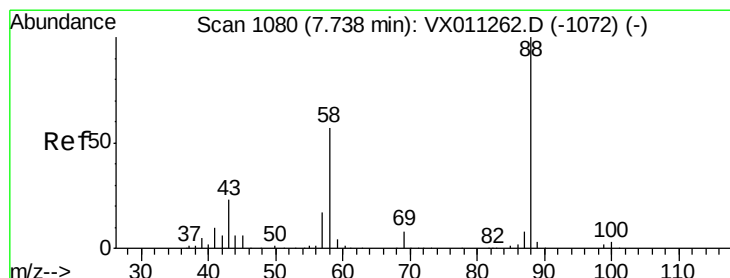
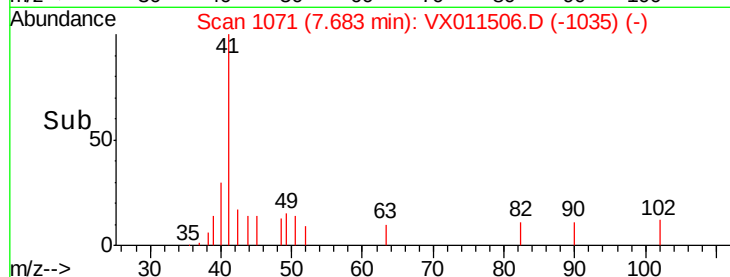
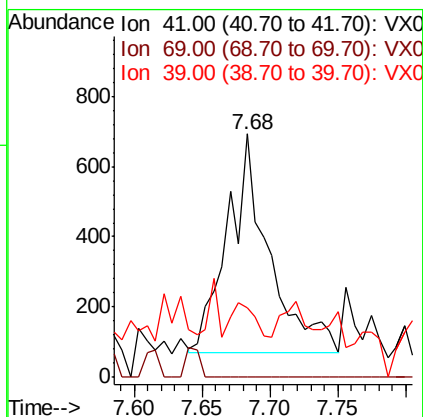
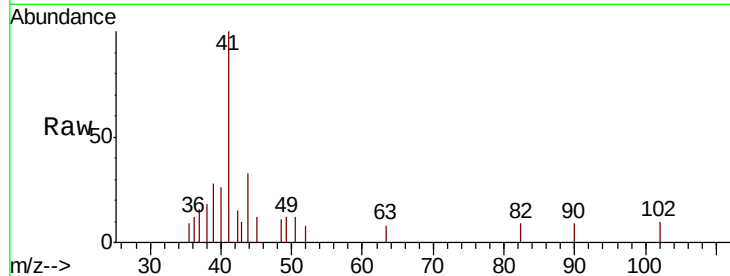




#48
Methyl methacrylate
Concen: 0.694 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.08 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

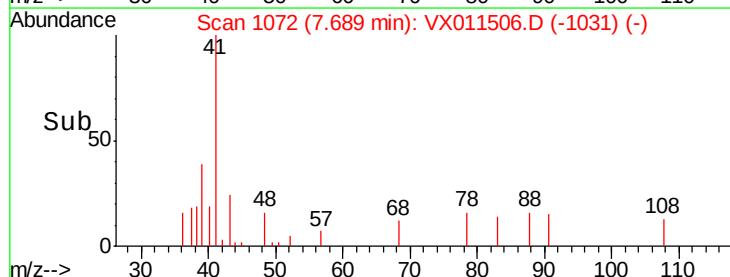
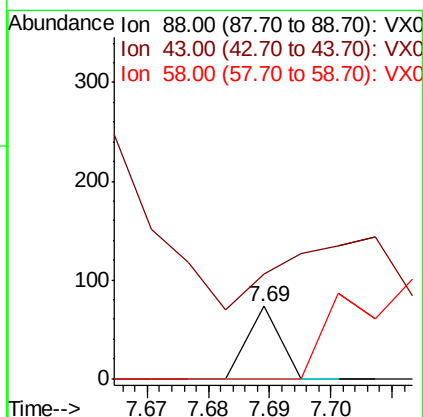
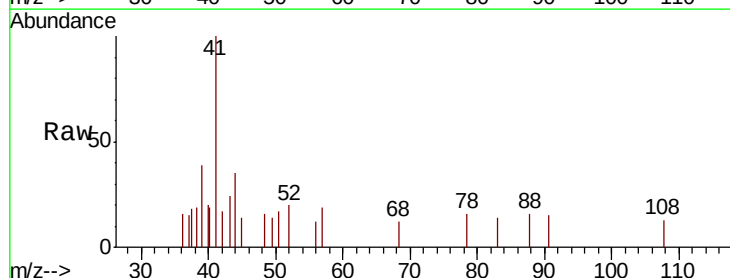
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3A-(2)

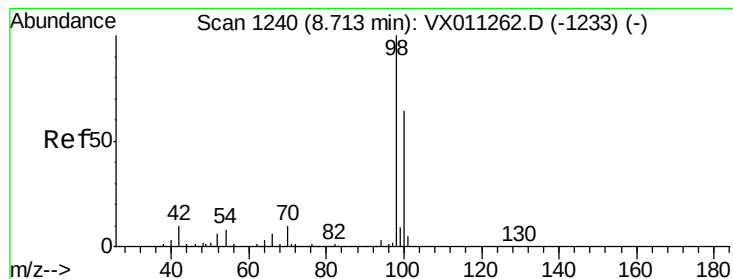
Tgt Ion: 41 Resp: 1322
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.489 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.05 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

Tgt Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 47.8 71.8#





#50

Toluene-d8

Concen: 48.647 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

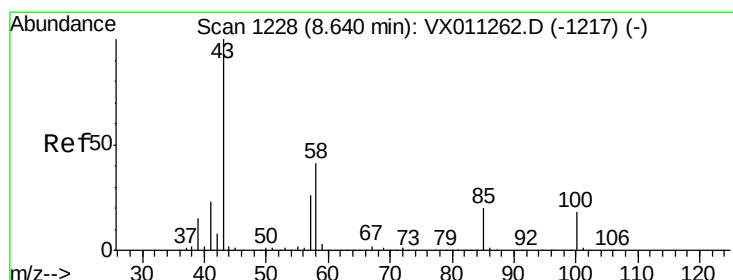
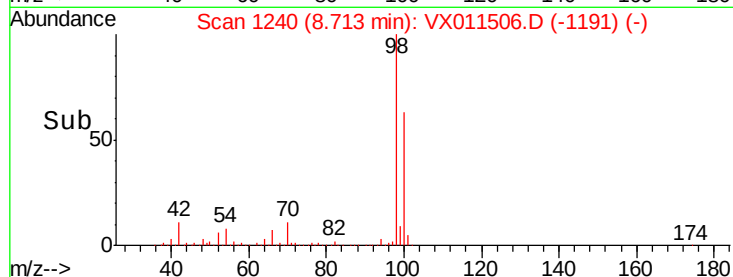
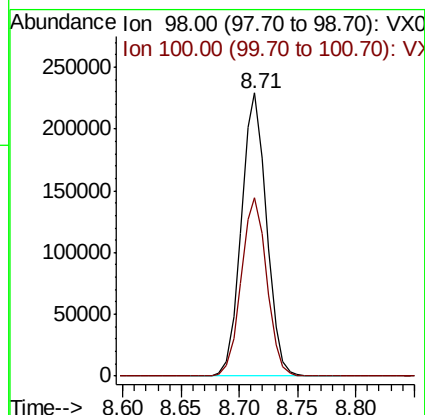
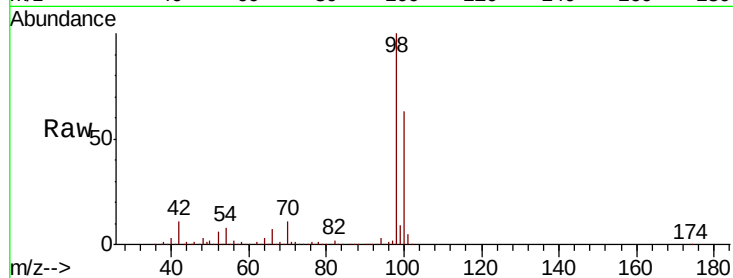
REACTOR-3A-(2)

Tgt Ion: 98 Resp: 346392

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 7.810 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011506.D

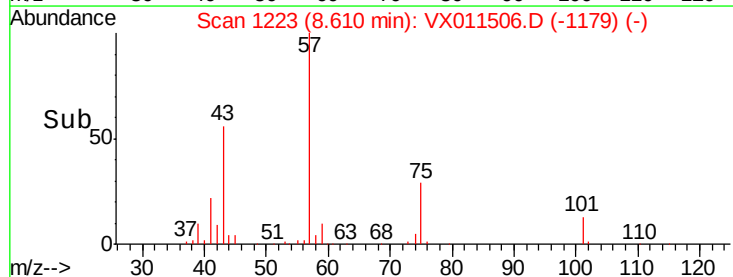
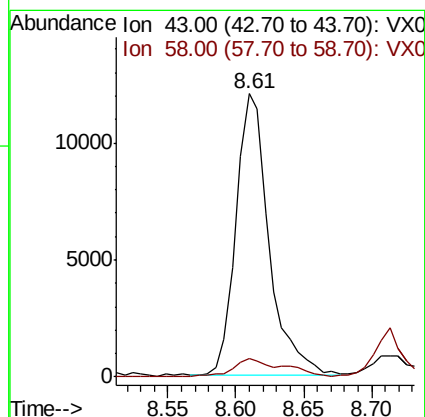
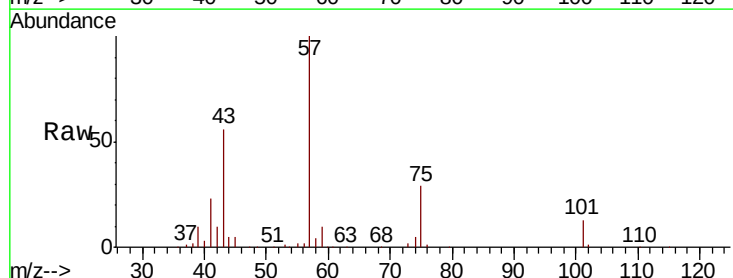
Acq: 13 Aug 2019 00:49

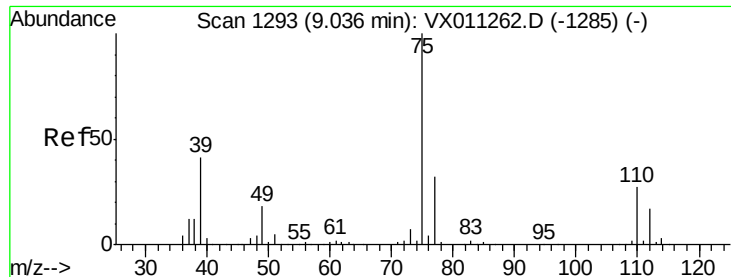
Tgt Ion: 43 Resp: 20390

Ion Ratio Lower Upper

43 100

58 9.7 32.3 48.5#





#53

t-1,3-Dichloropropene

Concen: 2.845 ug/l

RT: 9.01 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

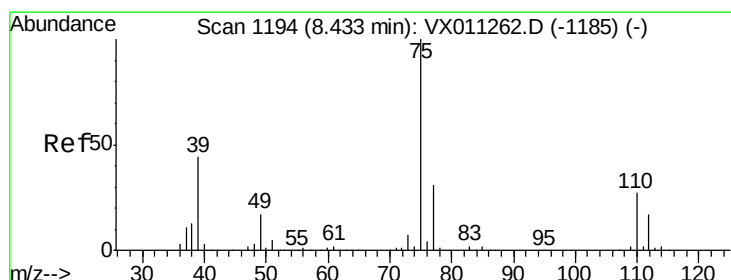
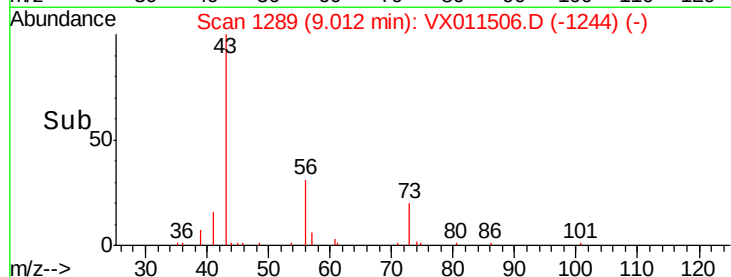
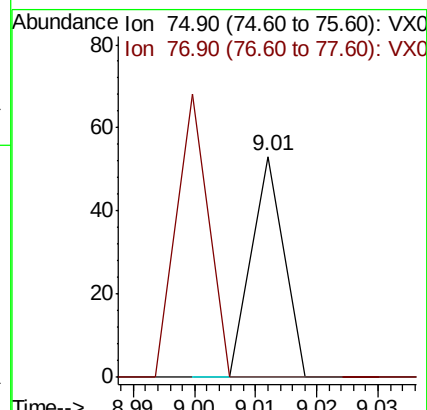
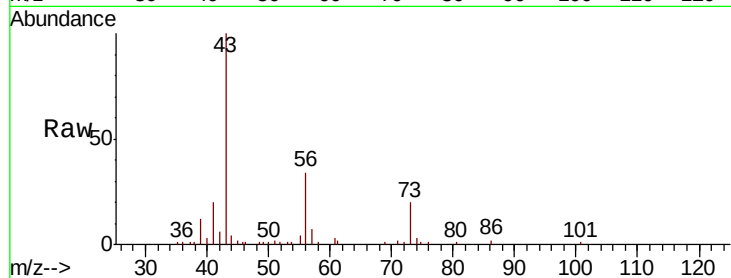
REACTOR-3A-(2)

Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 3.416 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

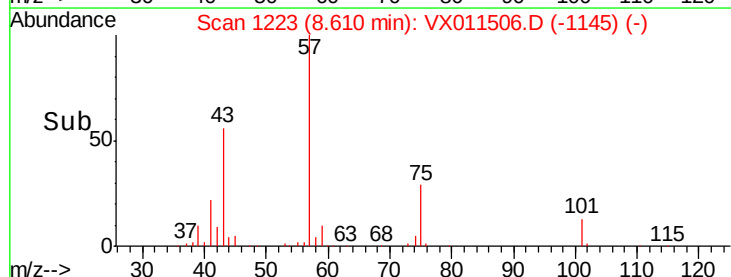
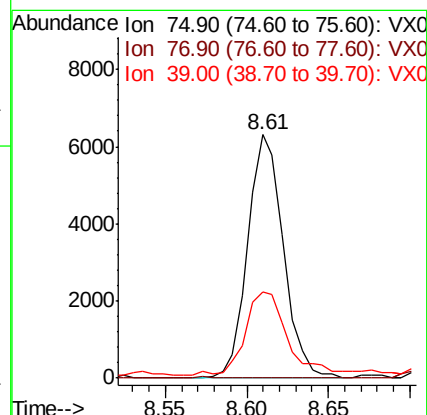
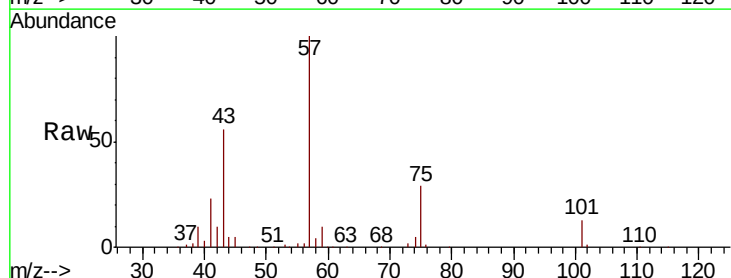
Tgt Ion: 75 Resp: 9616

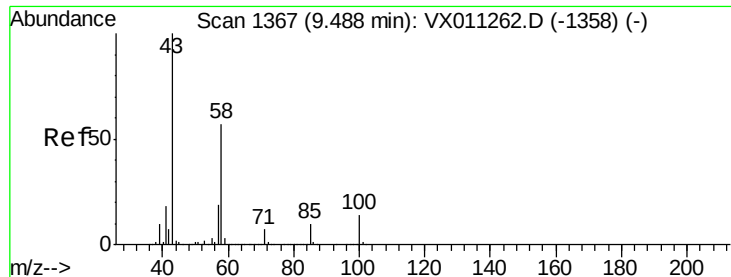
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 34.5 35.3 52.9#

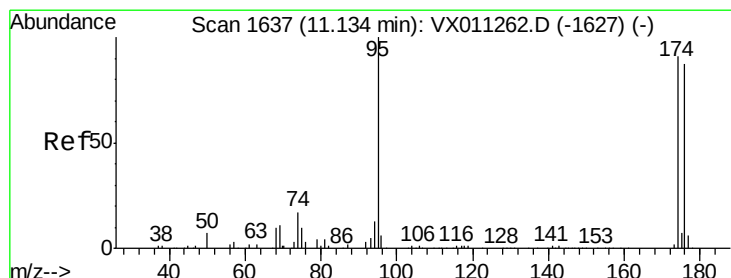
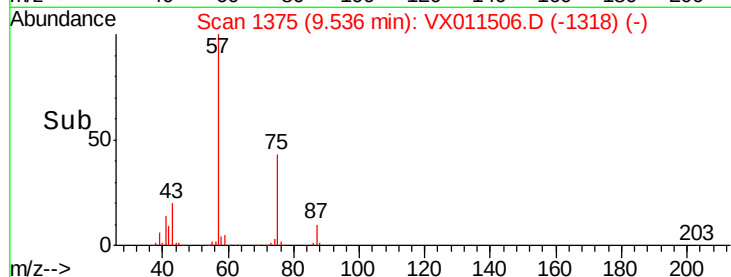
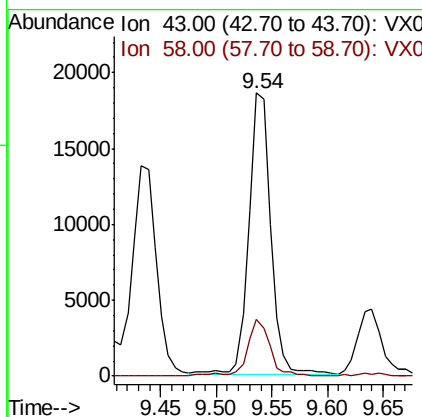
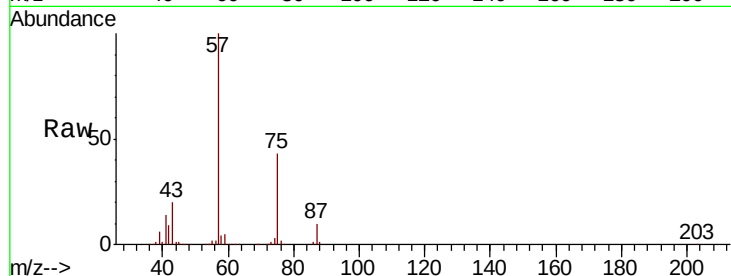




#59
 2-Hexanone
 Concen: 12.601 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011506.D
 Acq: 13 Aug 2019 00:49

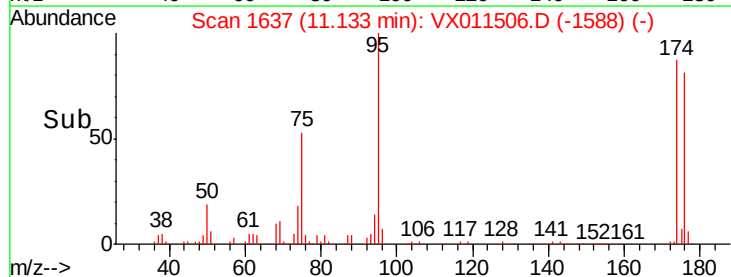
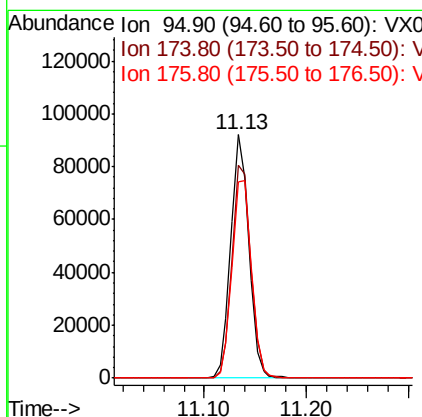
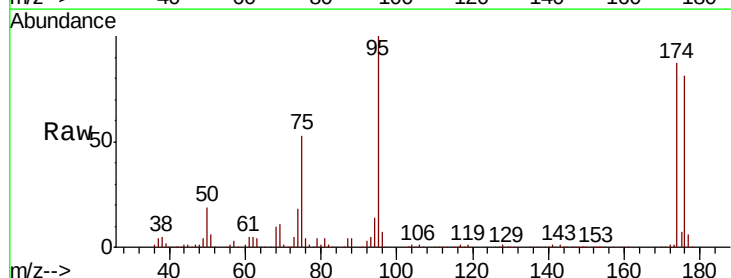
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-3A-(2)

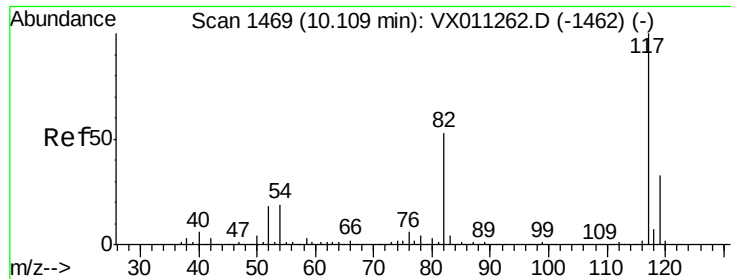
Tgt Ion: 43 Resp: 25483
 Ion Ratio Lower Upper
 43 100
 58 21.0 28.2 84.6#



#62
 4-Bromofluorobenzene
 Concen: 44.135 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX011506.D
 Acq: 13 Aug 2019 00:49

Tgt Ion: 95 Resp: 112202
 Ion Ratio Lower Upper
 95 100
 174 90.9 0.0 191.2
 176 87.8 0.0 184.8

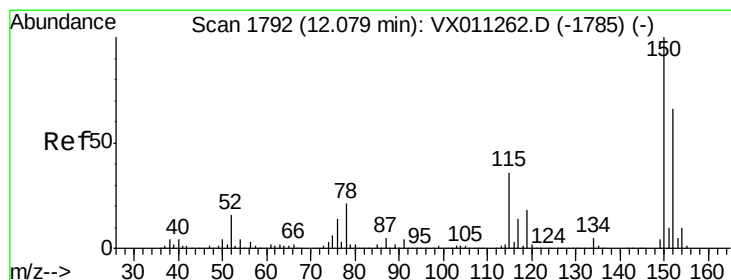
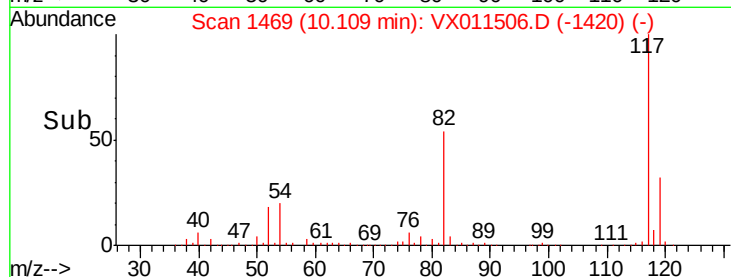
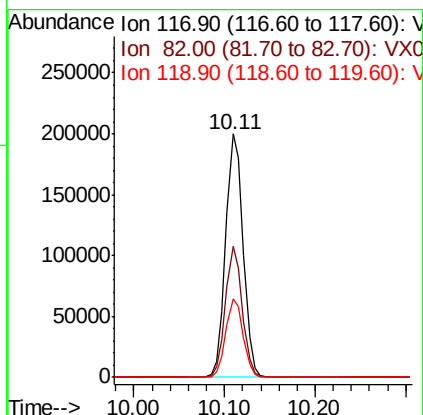
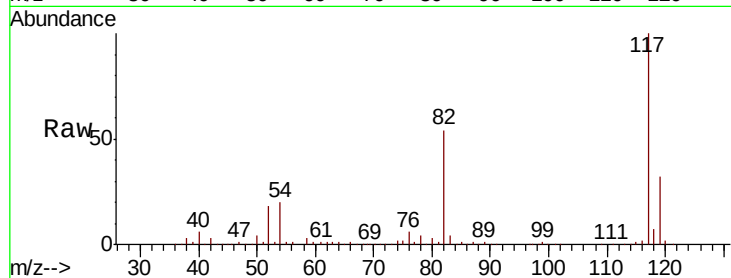




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

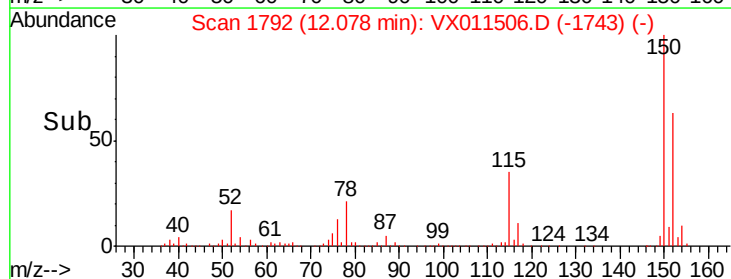
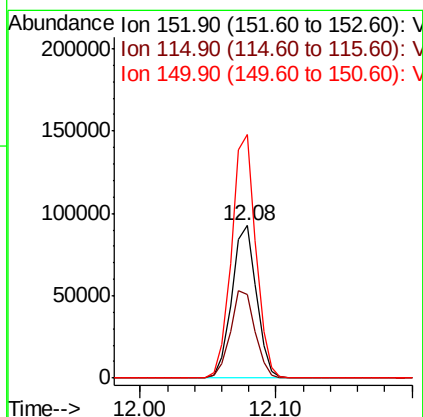
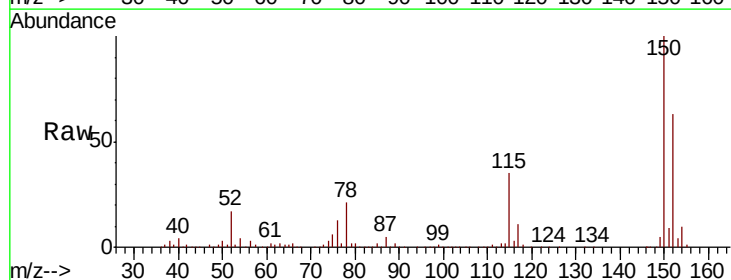
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-3A-(2)

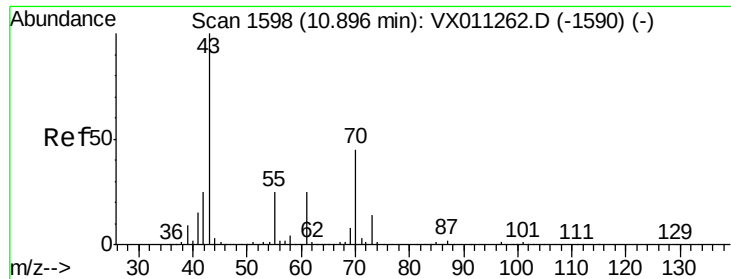
Tgt Ion:117 Resp: 267879
Ion Ratio Lower Upper
117 100
82 53.8 42.2 63.2
119 32.4 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011506.D
Acq: 13 Aug 2019 00:49

Tgt Ion:152 Resp: 116534
Ion Ratio Lower Upper
152 100
115 57.4 40.0 119.9
150 157.4 0.0 350.4





#74

N-amyI acetate

Concen: 0.389 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-3A-(2)

Tgt Ion: 43 Resp: 1119

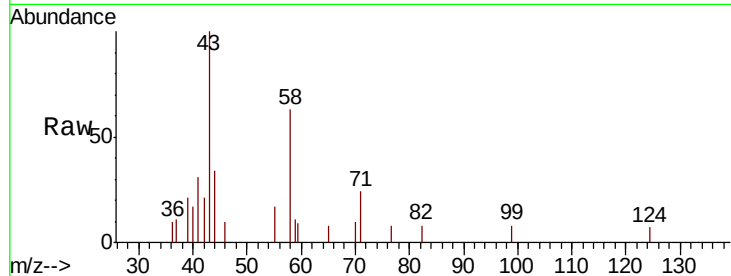
Ion Ratio Lower Upper

43 100

70 5.0 35.9 53.9#

55 12.4 19.8 29.6#

61 0.0 19.7 29.5#

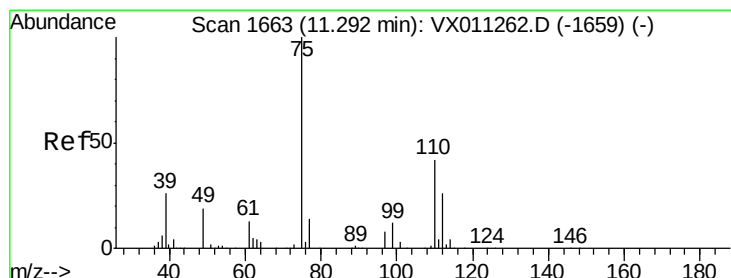
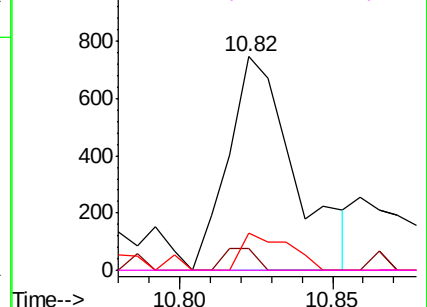
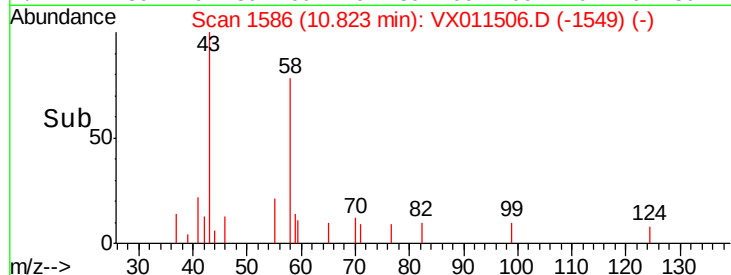


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 27.567 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011506.D

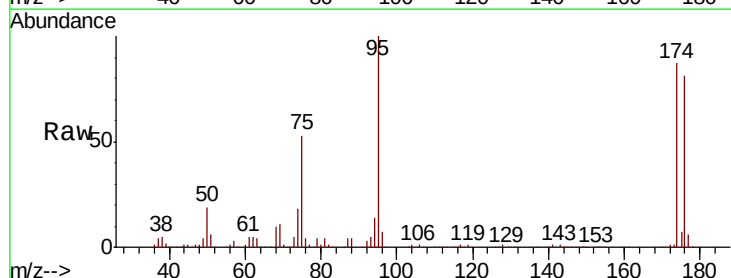
Acq: 13 Aug 2019 00:49

Tgt Ion: 75 Resp: 58504

Ion Ratio Lower Upper

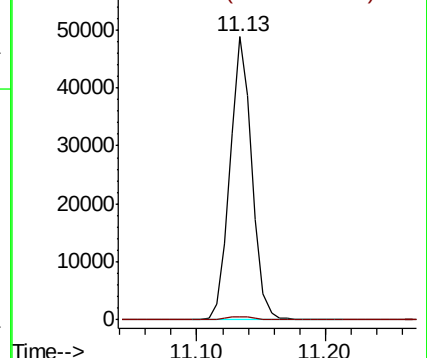
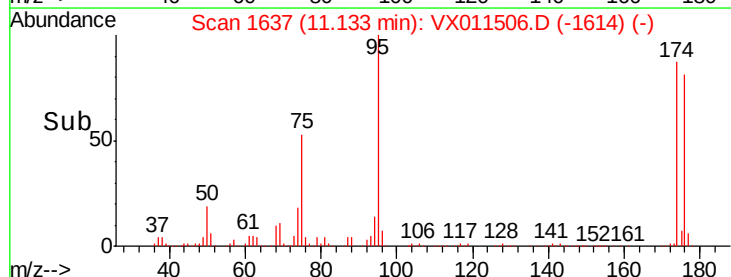
75 100

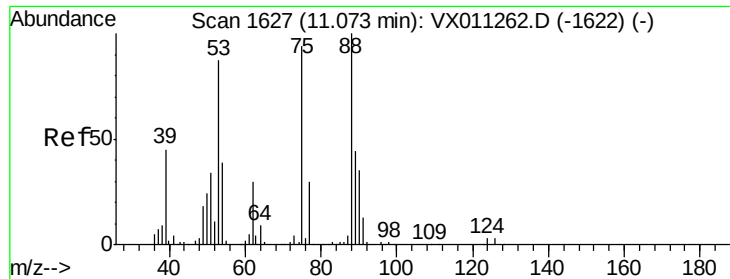
77 1.5 21.1 63.4#



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: 71.474 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011506.D

Acq: 13 Aug 2019 00:49

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-3A-(2)

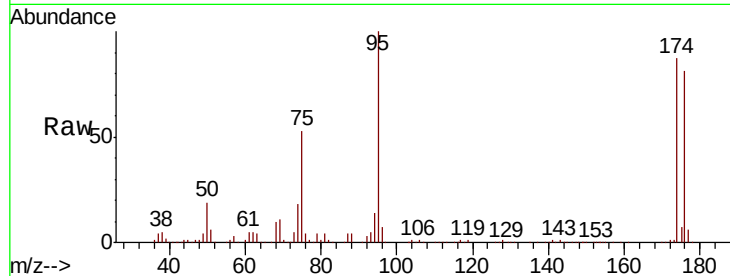
Tgt Ion: 75 Resp: 58504

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 37.9 56.9#



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

