

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011609.D
 Acq On : 17 Aug 2019 03:21
 Operator : JC/SP
 Sample : K4265-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A4-(0-1)

Quant Time: Aug 19 01:18:43 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	447014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	626390	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	523613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	268630	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	212638	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	5.49	113	183682	44.83	ug/l	0.00
Spiked Amount			Recovery	=	89.66%	
50) Toluene-d8	8.71	98	695326	54.47	ug/l	0.00
Spiked Amount			Recovery	=	108.94%	
62) 4-Bromofluorobenzene	11.13	95	247697	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	

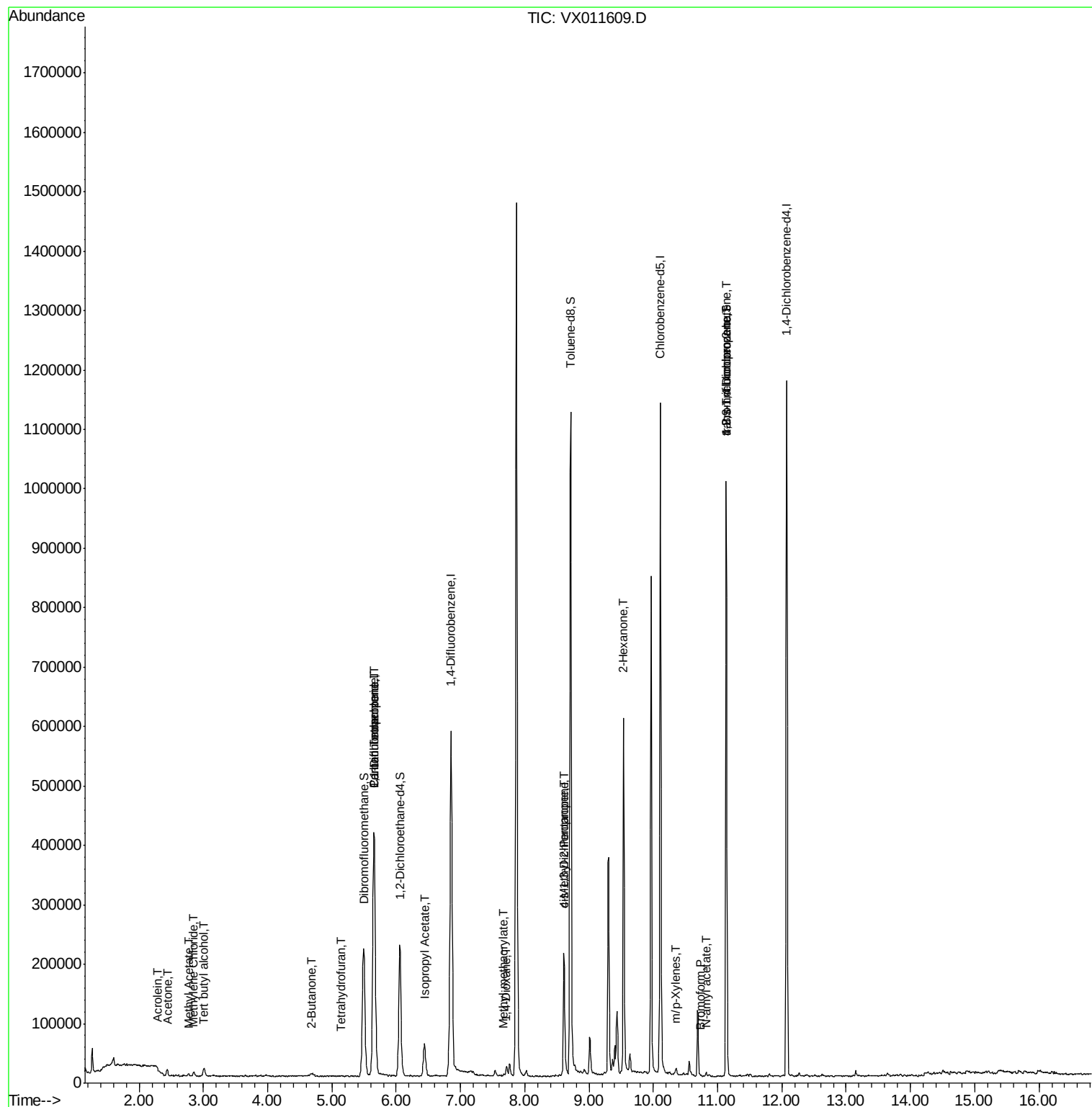
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	8416	8.275	ug/l #	73
13) Acrolein	2.29	56	156	12.658	ug/l #	15
16) Acetone	2.44	43	13215	6.340	ug/l	96
18) Methyl Acetate	2.77	43	5248	0.812	ug/l #	87
20) Methylene Chloride	2.85	84	3582	0.818	ug/l #	84
25) 2-Butanone	4.68	43	1841	0.563	ug/l #	87
29) Tetrahydrofuran	5.13	42	474	0.221	ug/l #	90
36) 1,1-Dichloropropene	5.65	75	25115	4.690	ug/l #	50
38) Carbon Tetrachloride	5.65	117	38531	6.530	ug/l #	15
43) Isopropyl Acetate	6.44	43	77430	8.054	ug/l	100
48) Methyl methacrylate	7.68	41	4855	1.020	ug/l #	16
49) 1,4-Dioxane	7.72	88	298	2.353	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	73020	11.605	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	32764	5.209	ug/l #	65
59) 2-Hexanone	9.54	43	72622	14.966	ug/l #	51
68) m/p-Xylenes	10.36	106	2905	0.406	ug/l	93
71) Bromoform	10.74	173	80	3.310	ug/l #	28
74) N-amyl acetate	10.82	43	3345	0.452	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	115867	22.746	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	115867	60.576	ug/l #	11

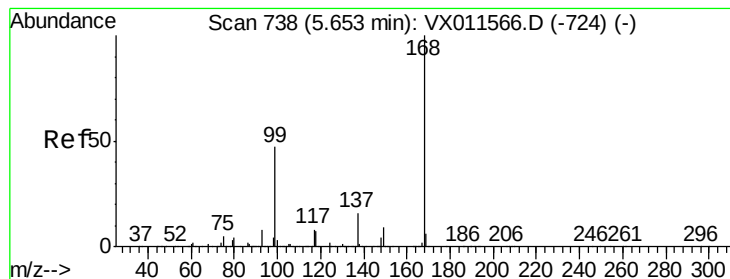
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

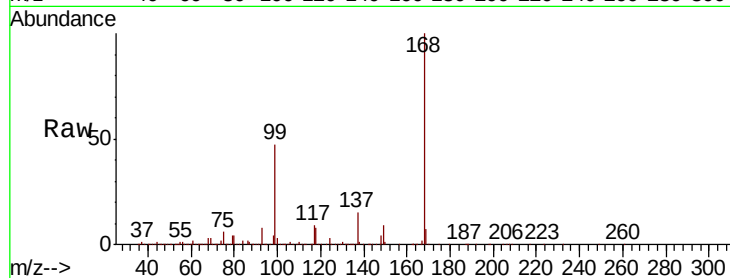
REACTOR-4-A4-(0-1)

Tgt Ion:168 Resp: 447014

Ion Ratio Lower Upper

168 100

99 46.9 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

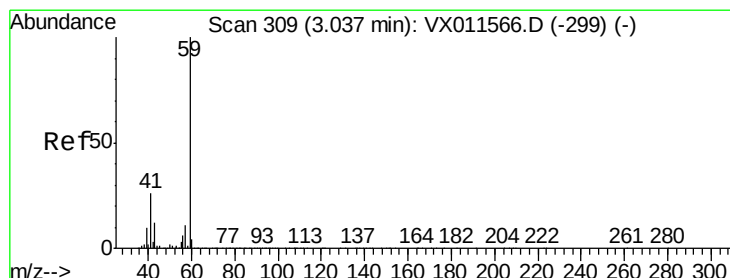
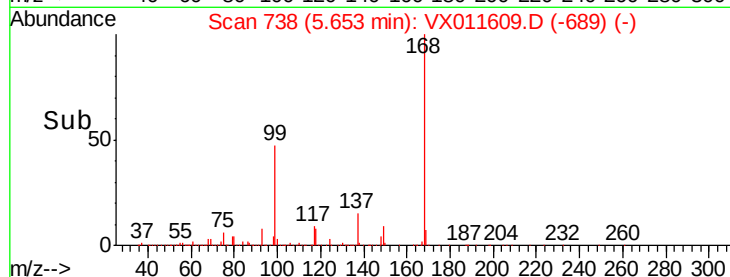
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 8.275 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011609.D

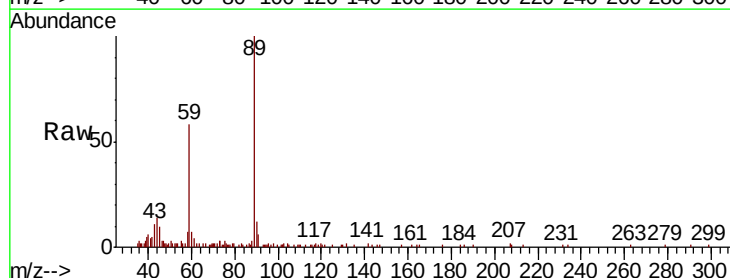
Acq: 17 Aug 2019 03:21

Tgt Ion: 59 Resp: 8416

Ion Ratio Lower Upper

59 100

57 0.5 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

4000

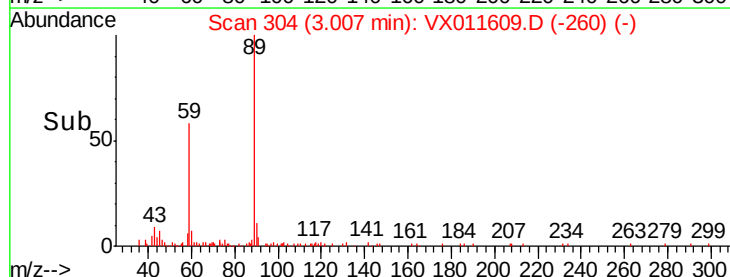
3000

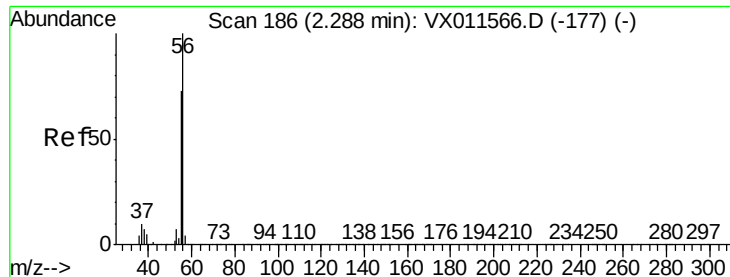
2000

1000

0

Time-->





#13

Acrolein

Concen: 12.658 ug/l

RT: 2.29 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

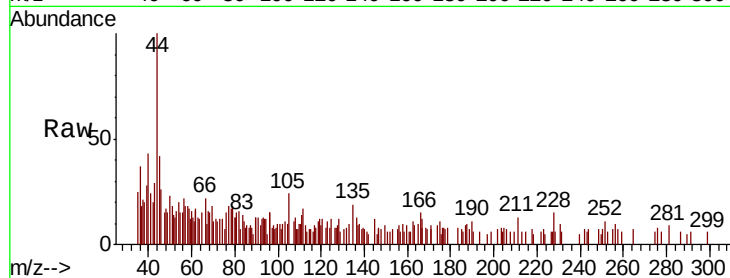
REACTOR-4-A4-(0-1)

Tgt Ion: 56 Resp: 156

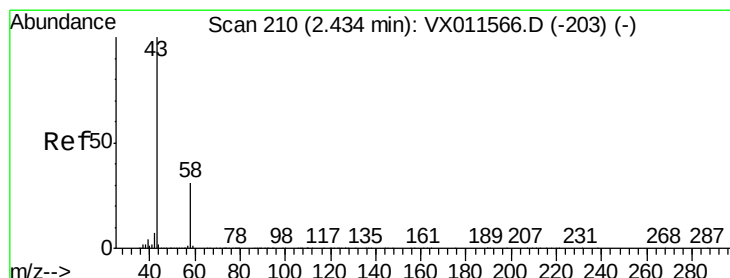
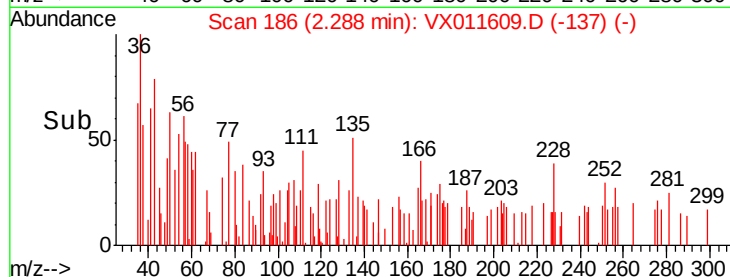
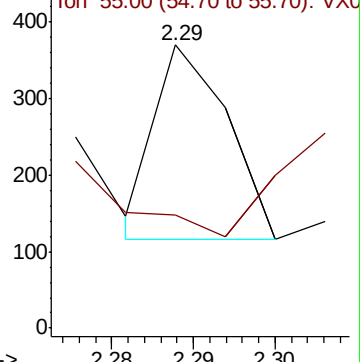
Ion Ratio Lower Upper

56 100

55 0.0 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0



#16

Acetone

Concen: 6.340 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011609.D

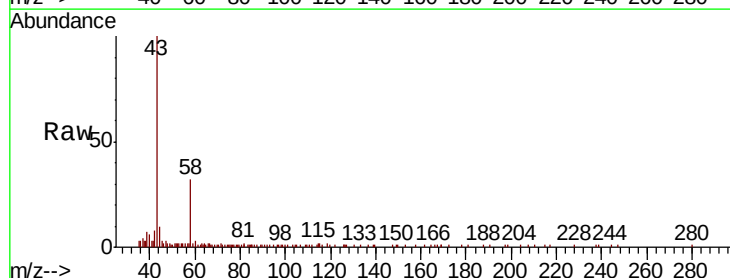
Acq: 17 Aug 2019 03:21

Tgt Ion: 43 Resp: 13215

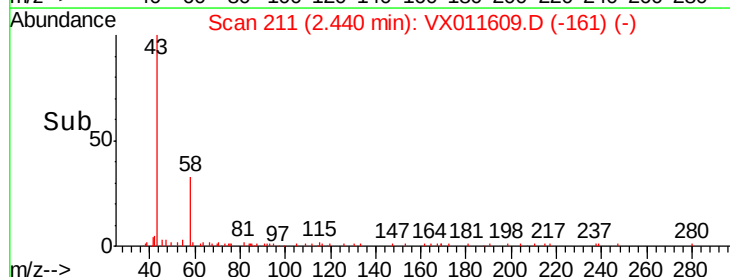
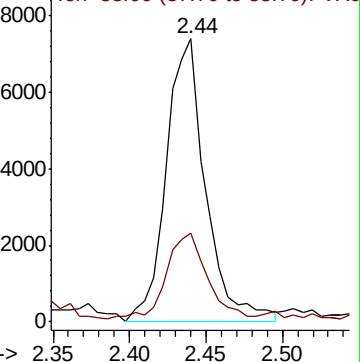
Ion Ratio Lower Upper

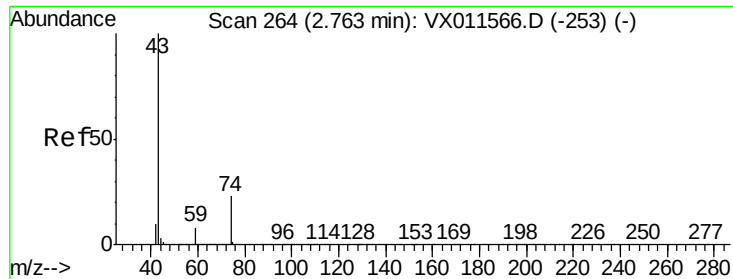
43 100

58 29.4 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

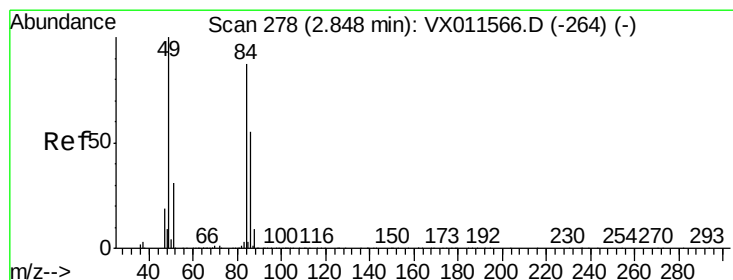
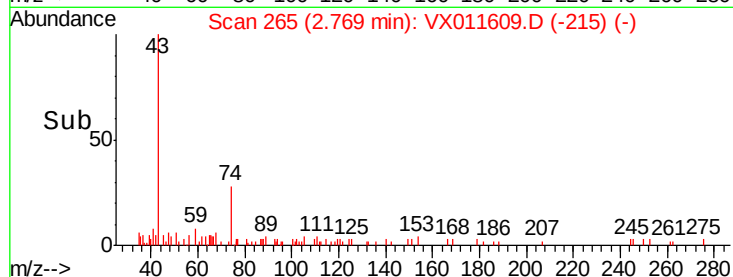
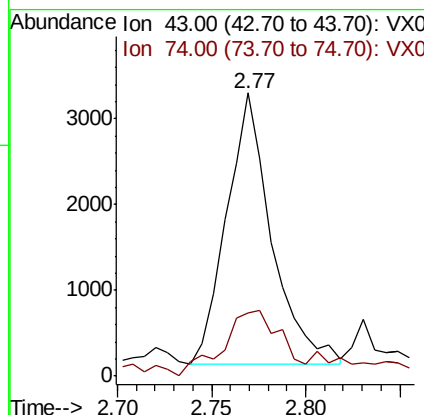
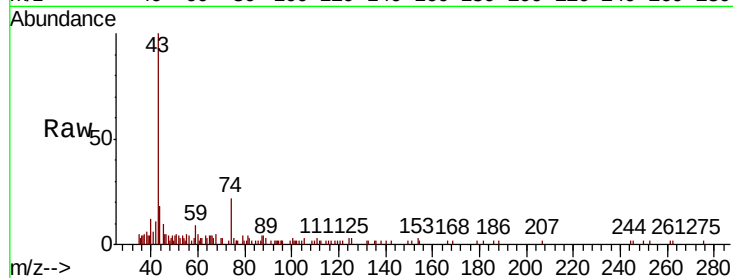




#18
Methyl Acetate
Concen: 0.812 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

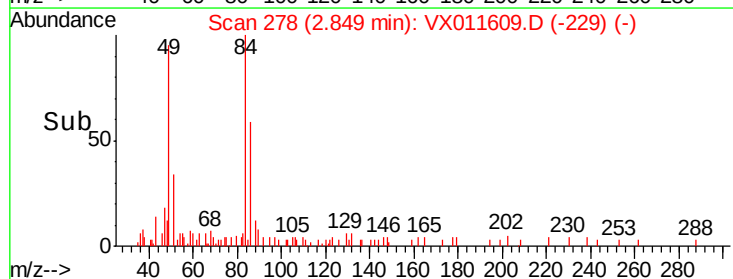
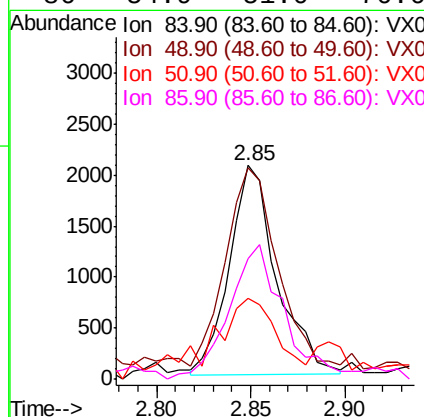
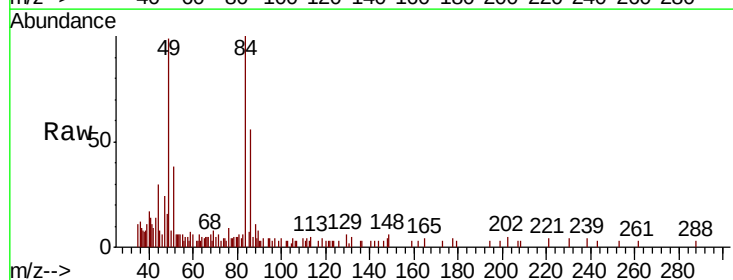
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A4-(0-1)

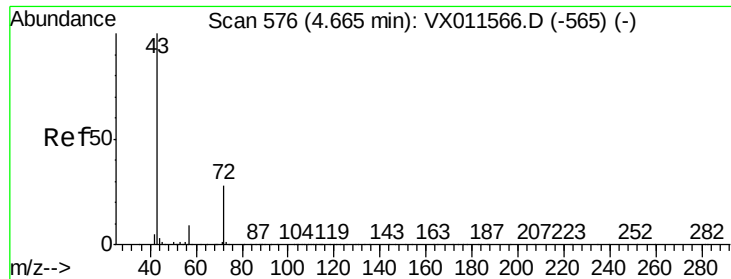
Tgt Ion: 43 Resp: 5248
Ion Ratio Lower Upper
43 100
74 31.2 19.7 29.5#



#20
Methylene Chloride
Concen: 0.818 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

Tgt Ion: 84 Resp: 3582
Ion Ratio Lower Upper
84 100
49 96.2 92.4 138.6
51 23.8 28.5 42.7#
86 54.9 51.0 76.6





#25

2-Butanone

Concen: 0.563 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

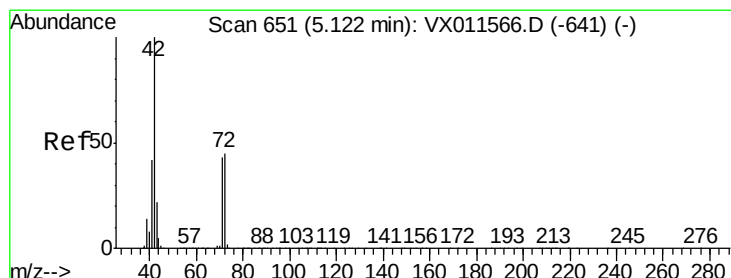
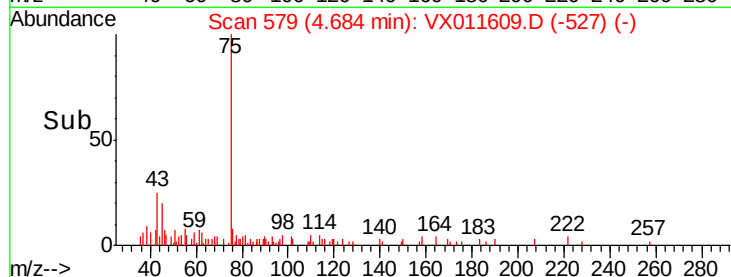
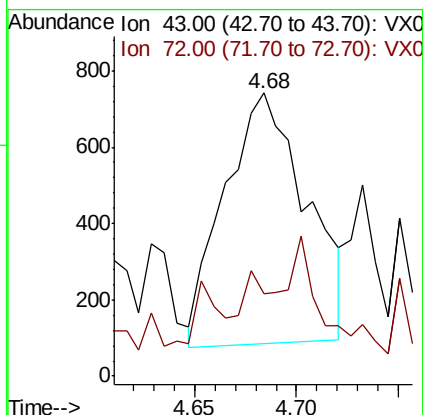
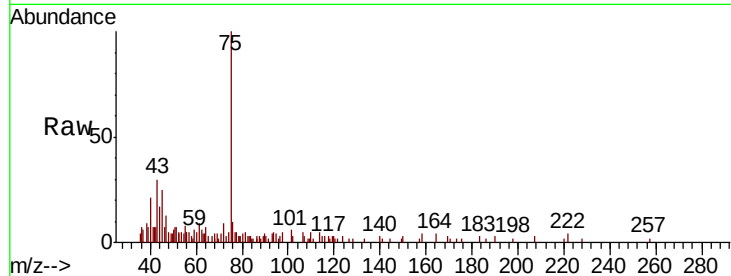
REACTOR-4-A4-(0-1)

Tgt Ion: 43 Resp: 1841

Ion Ratio Lower Upper

43 100

72 21.2 22.2 33.4#



#29

Tetrahydrofuran

Concen: 0.221 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

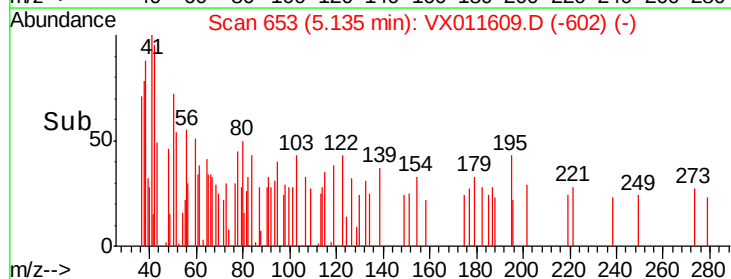
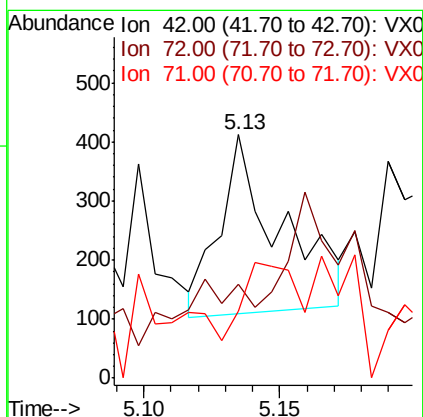
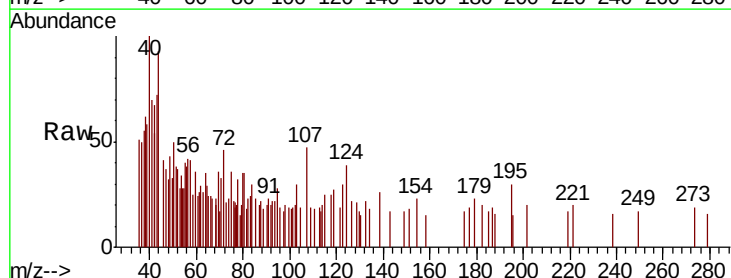
Tgt Ion: 42 Resp: 474

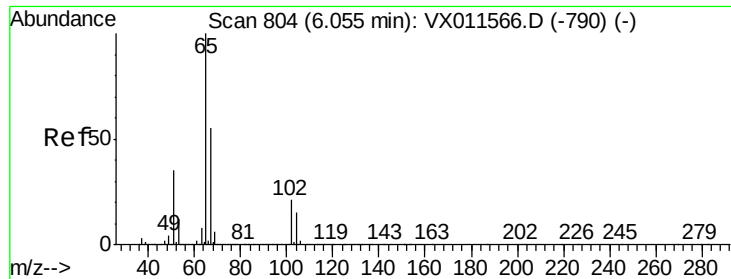
Ion Ratio Lower Upper

42 100

72 40.7 36.1 54.1

71 51.3 33.8 50.8#

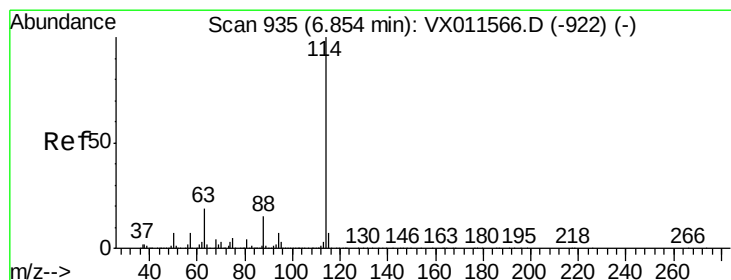
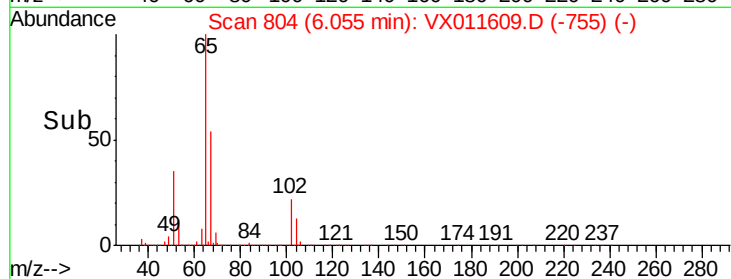
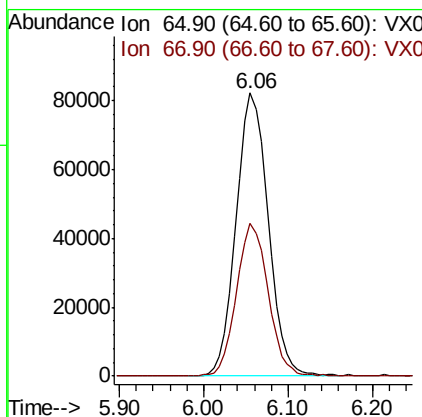
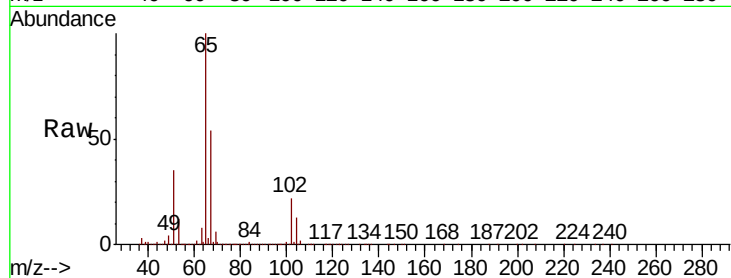




#33
 1,2-Dichloroethane-d4
 Concen: 51.294 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011609.D
 Acq: 17 Aug 2019 03:21

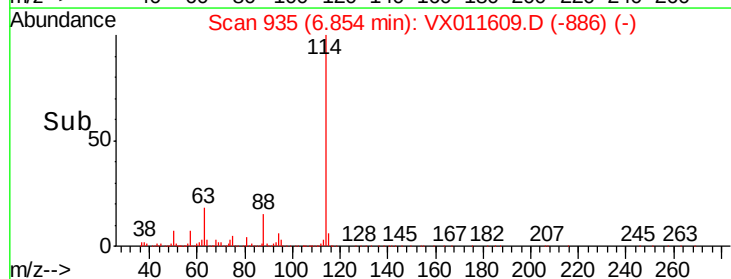
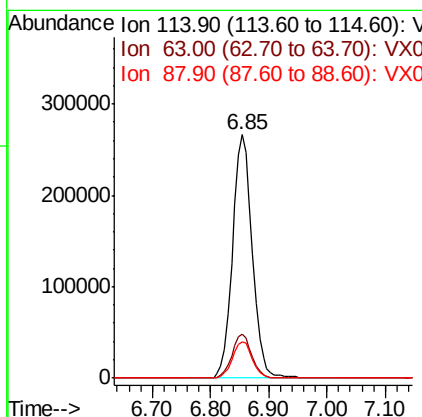
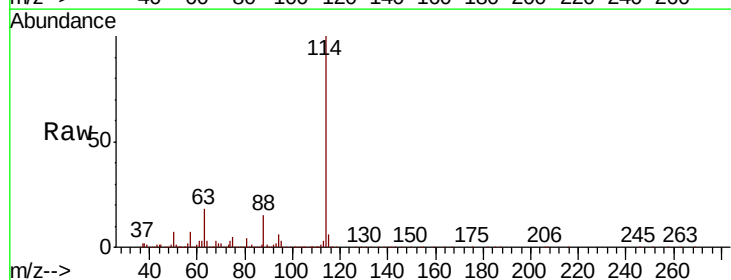
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A4-(0-1)

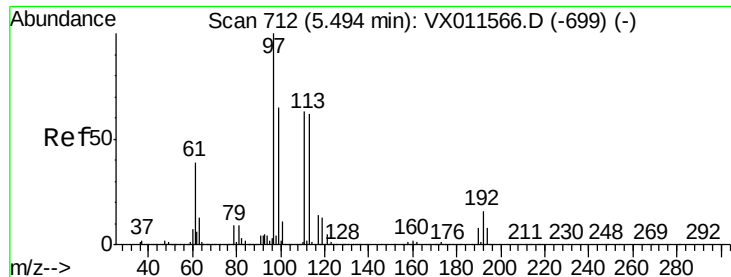
Tgt Ion: 65 Resp: 212638
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011609.D
 Acq: 17 Aug 2019 03:21

Tgt Ion: 114 Resp: 626390
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 37.8
 88 14.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 44.833 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A4-(0-1)

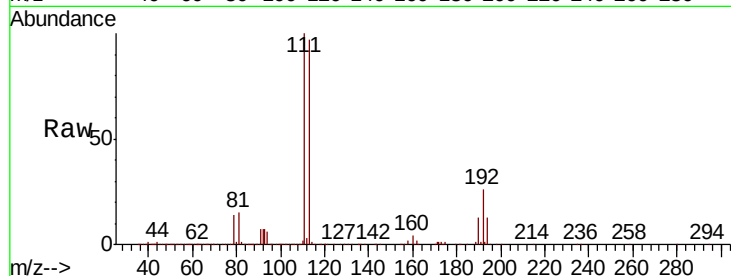
Tgt Ion:113 Resp: 183682

Ion Ratio Lower Upper

113 100

111 102.2 81.1 121.7

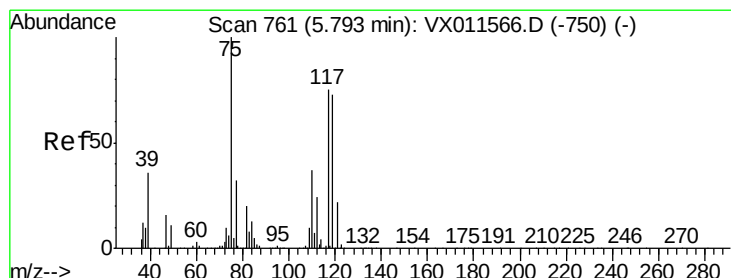
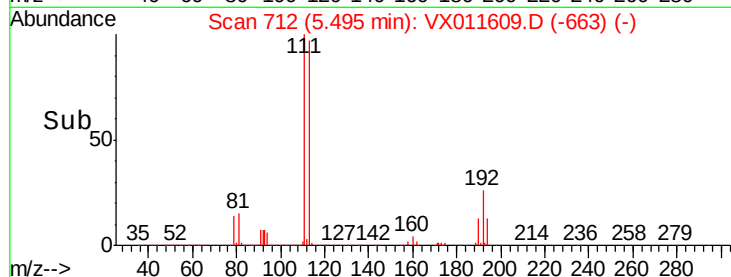
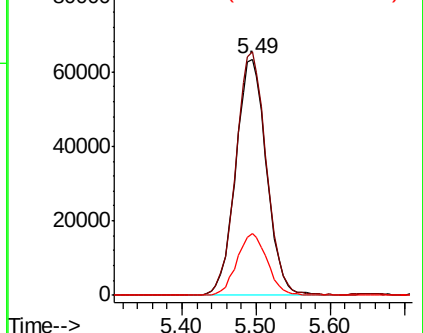
192 25.9 20.8 31.2



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: 4.690 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

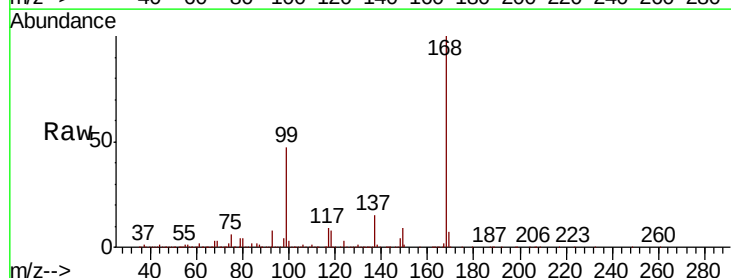
Tgt Ion: 75 Resp: 25115

Ion Ratio Lower Upper

75 100

110 11.5 19.4 58.1#

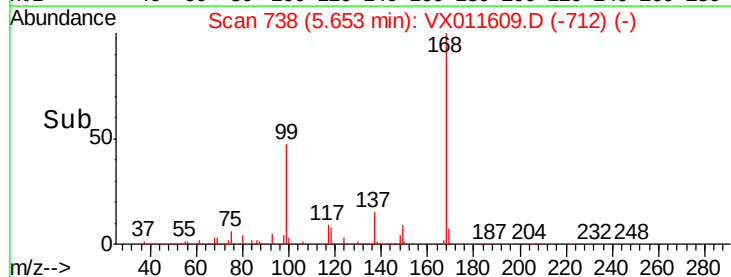
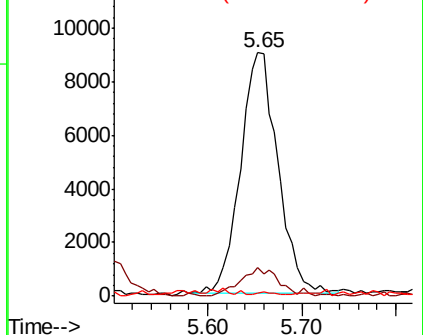
77 0.7 25.1 37.7#

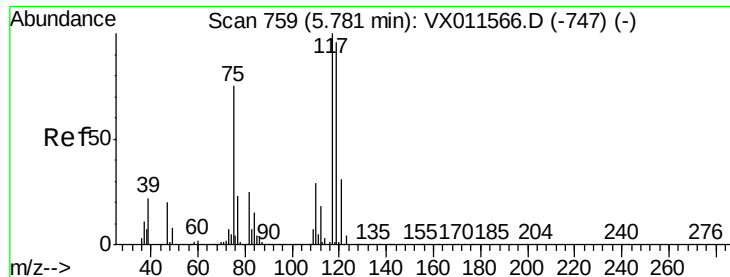


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.530 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

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REACTOR-4-A4-(0-1)

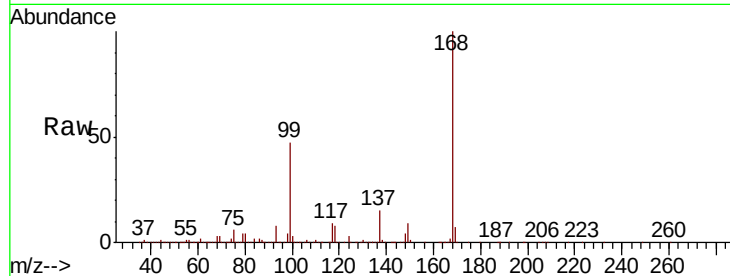
Tgt Ion:117 Resp: 38531

Ion Ratio Lower Upper

117 100

119 3.9 76.9 115.3#

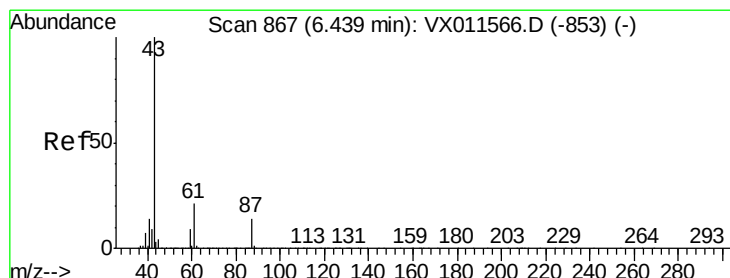
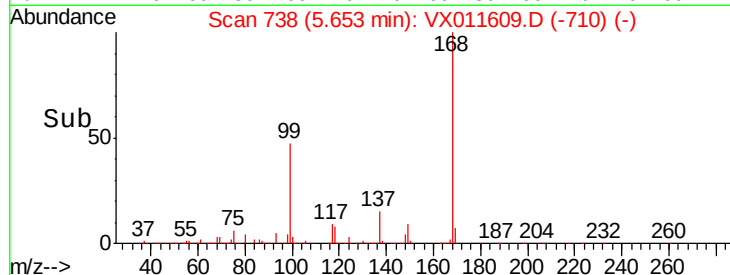
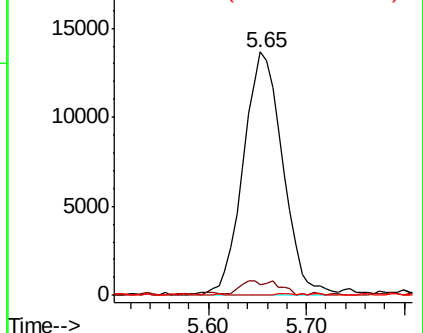
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.054 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

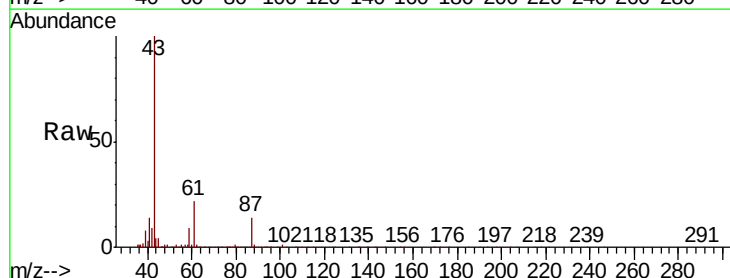
Tgt Ion: 43 Resp: 77430

Ion Ratio Lower Upper

43 100

61 20.7 16.6 24.8

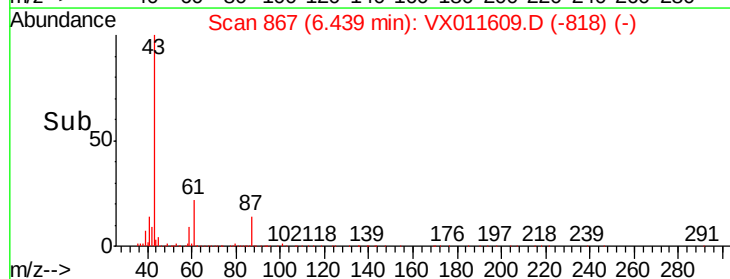
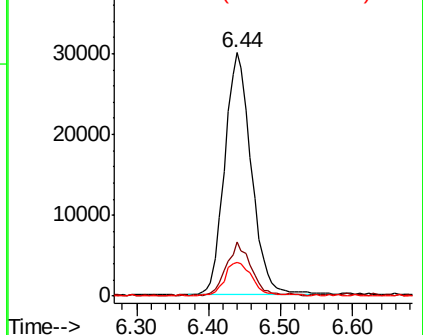
87 13.8 11.4 17.2

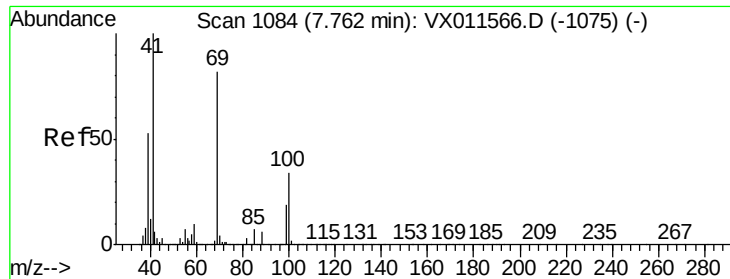


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

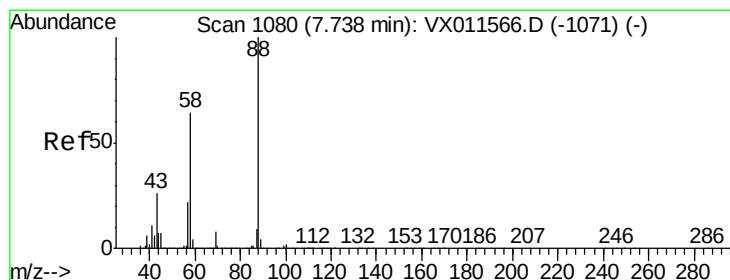
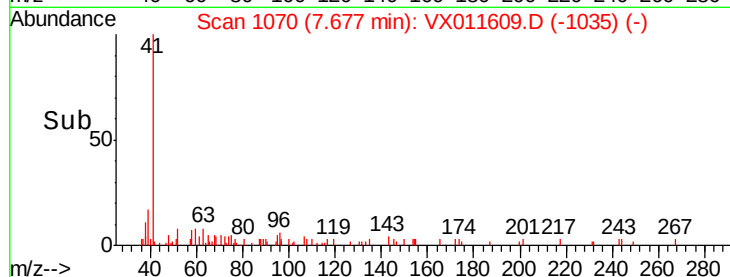
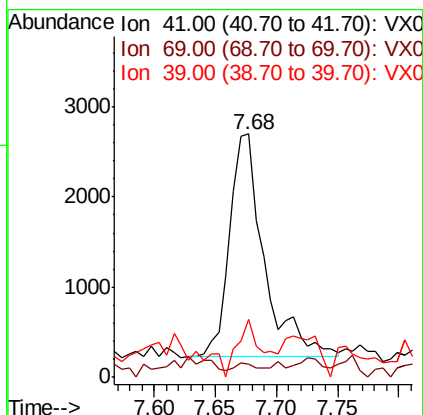
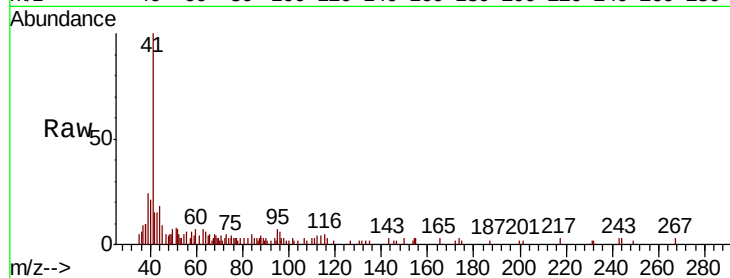




#48
Methyl methacrylate
Concen: 1.020 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

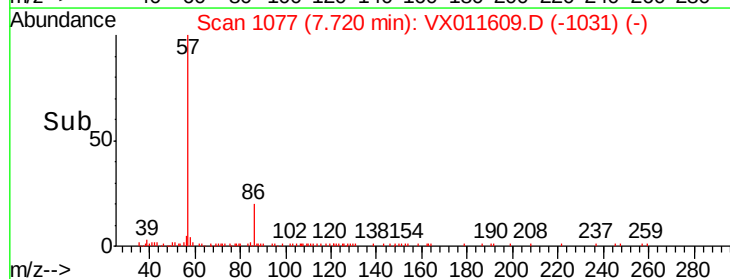
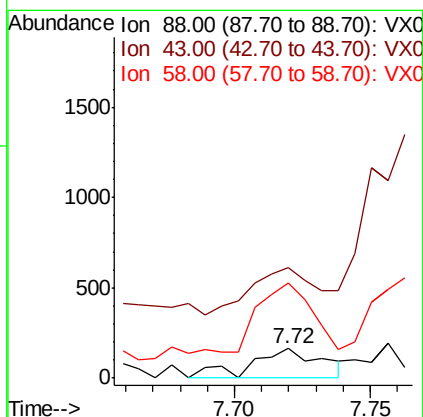
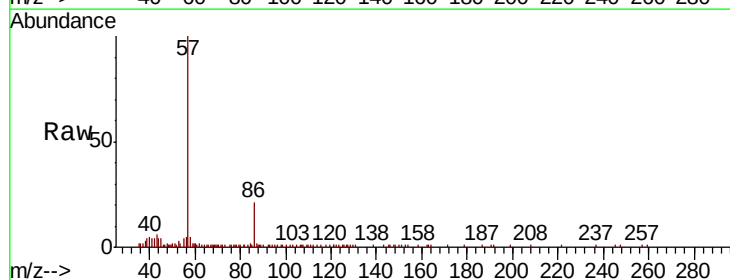
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A4-(0-1)

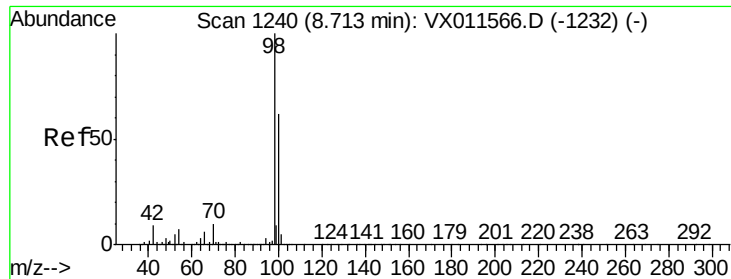
Tgt Ion	Ratio	Lower	Upper
41	100		
69	3.1	67.9	101.9#
39	0.0	41.6	62.4#



#49
1,4-Dioxane
Concen: 2.353 ug/l
RT: 7.72 min Scan# 1077
Delta R.T. -0.02 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.4	35.0#
58	210.4	54.3	81.5#

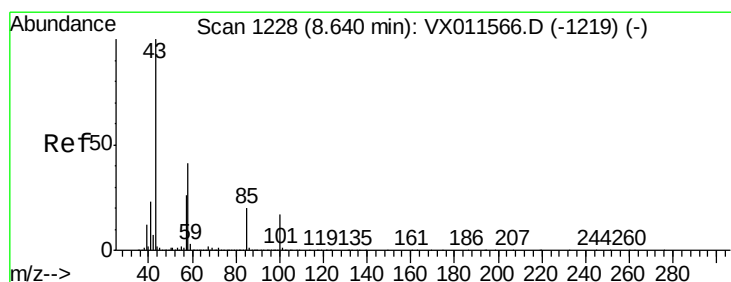
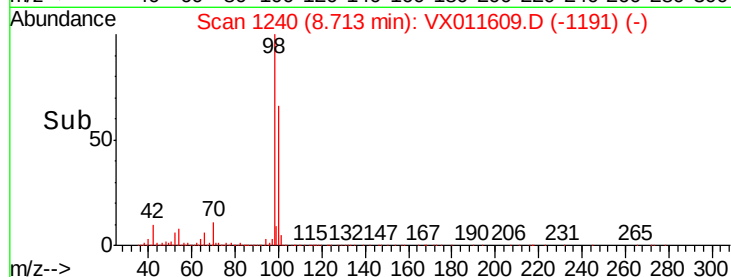
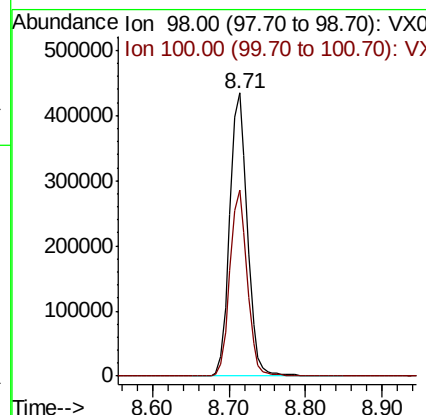
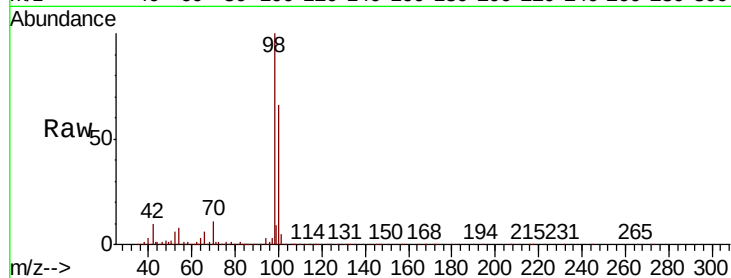




#50
Toluene-d8
Concen: 54.468 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

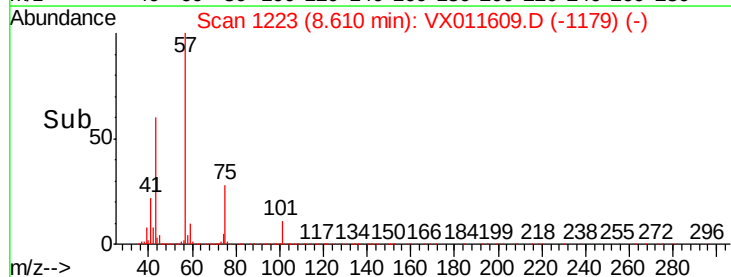
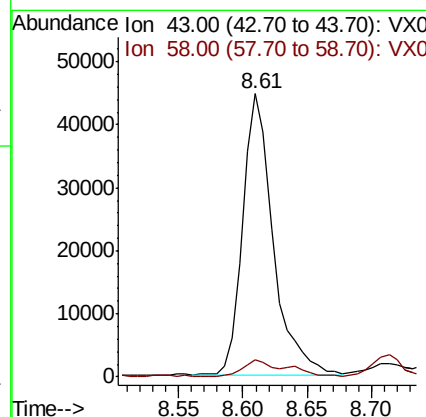
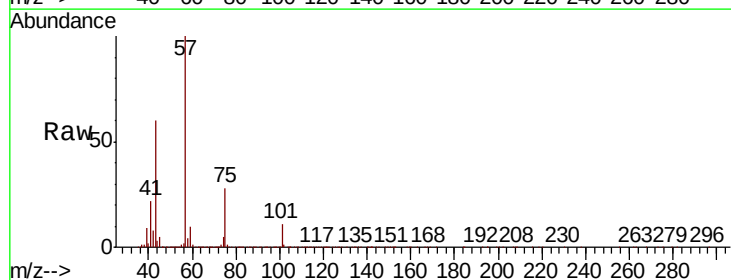
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A4-(0-1)

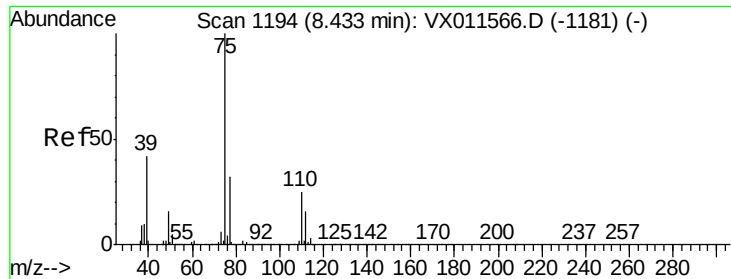
Tgt Ion: 98 Resp: 695326
Ion Ratio Lower Upper
98 100
100 64.6 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 11.605 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

Tgt Ion: 43 Resp: 73020
Ion Ratio Lower Upper
43 100
58 5.6 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 5.209 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A4-(0-1)

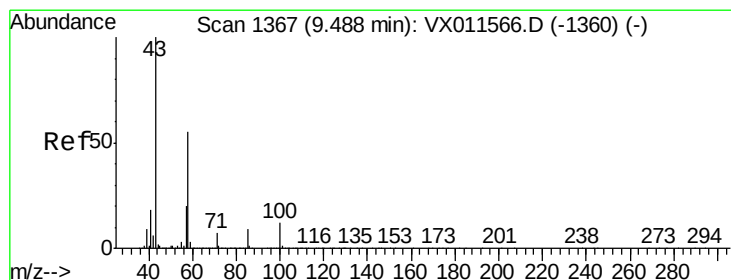
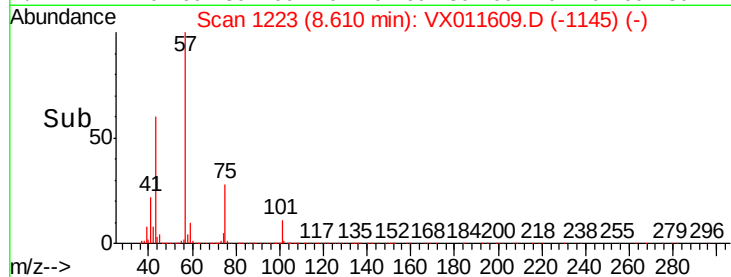
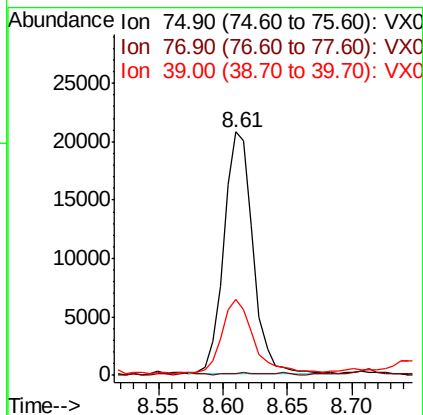
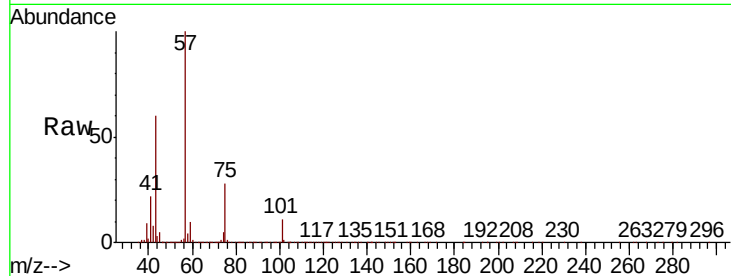
Tgt Ion: 75 Resp: 32764

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 30.3 33.6 50.4#



#59

2-Hexanone

Concen: 14.966 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011609.D

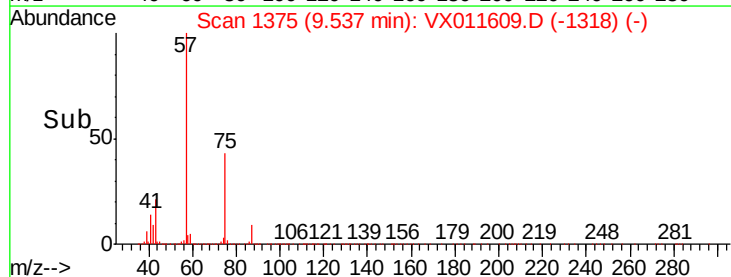
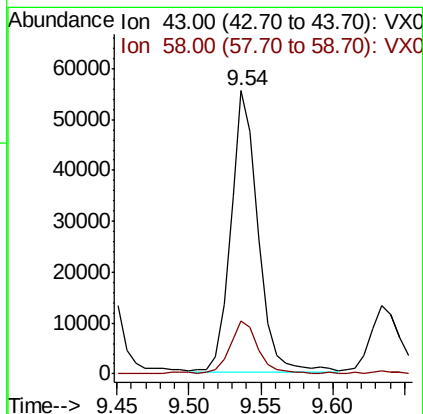
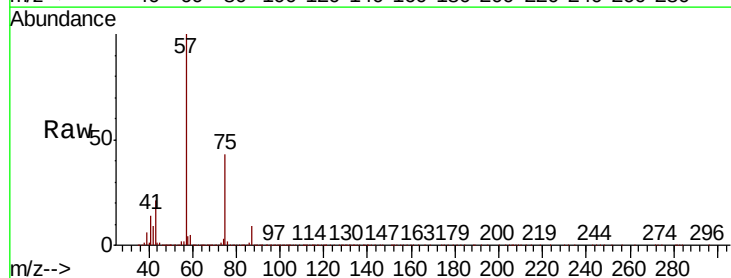
Acq: 17 Aug 2019 03:21

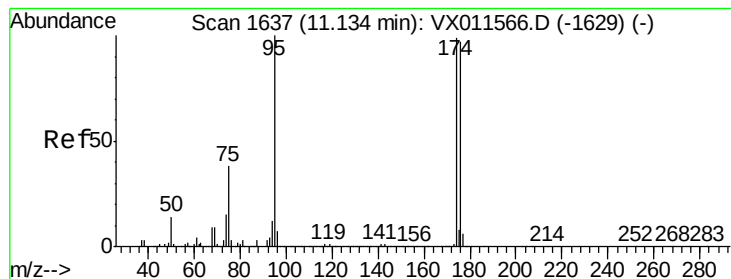
Tgt Ion: 43 Resp: 72622

Ion Ratio Lower Upper

43 100

58 19.8 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 45.970 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A4-(0-1)

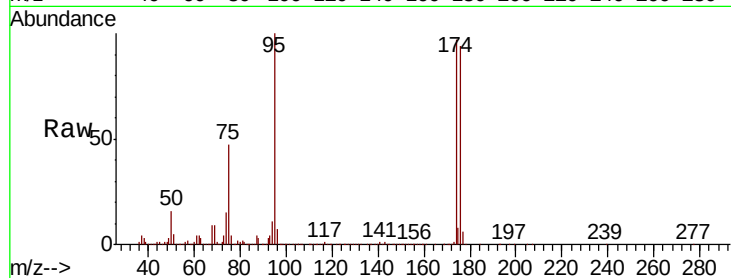
Tgt Ion: 95 Resp: 247697

Ion Ratio Lower Upper

95 100

174 100.2 0.0 200.6

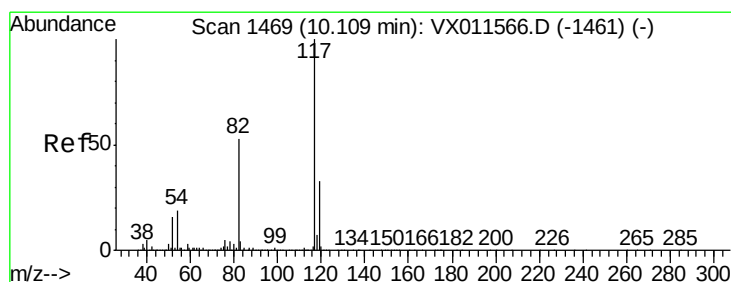
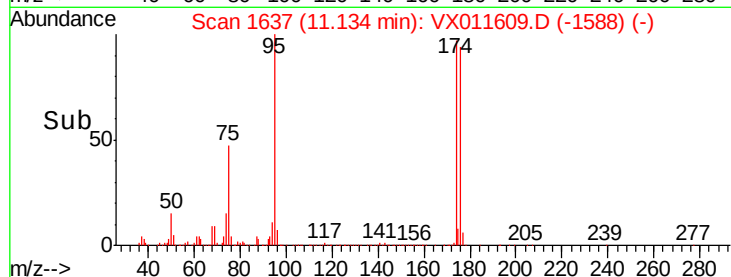
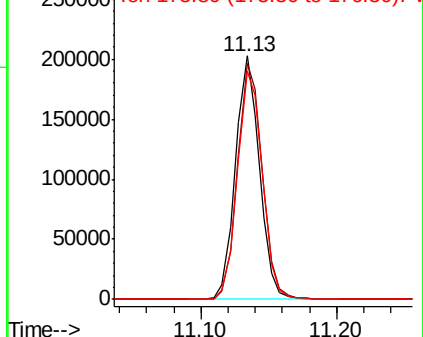
176 97.5 0.0 196.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

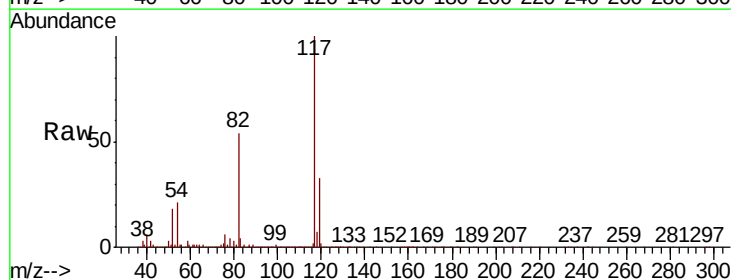
Tgt Ion: 117 Resp: 523613

Ion Ratio Lower Upper

117 100

82 54.2 42.0 63.0

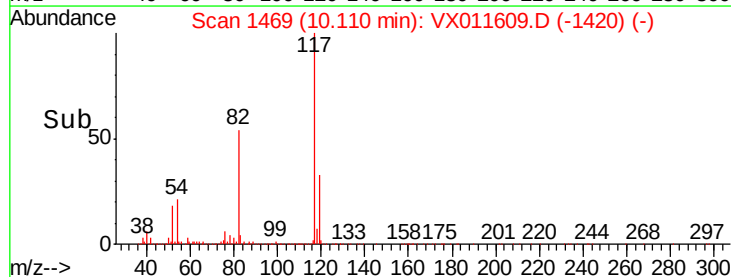
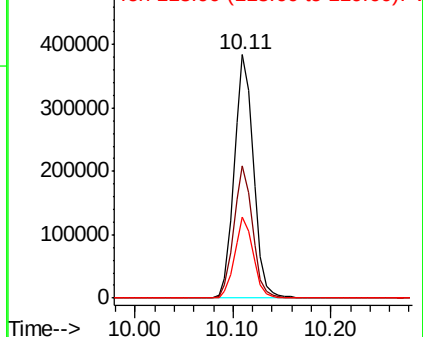
119 33.4 26.5 39.7

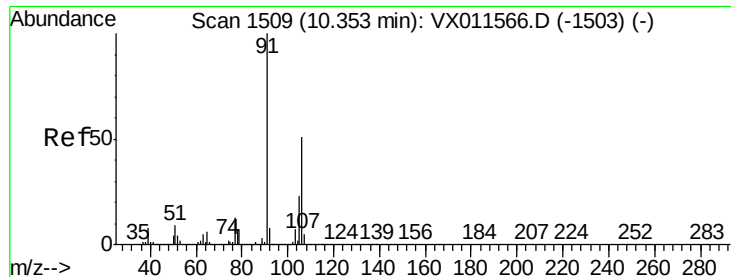


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

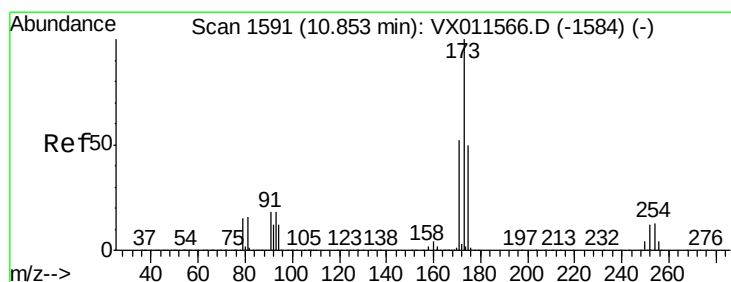
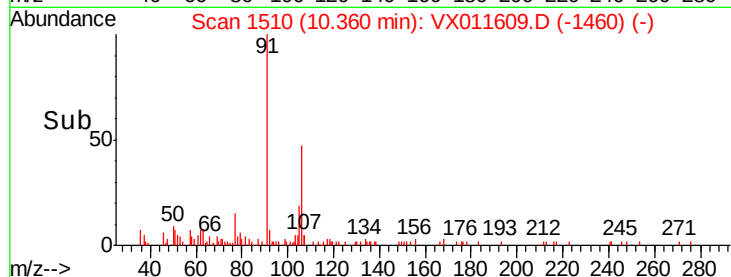
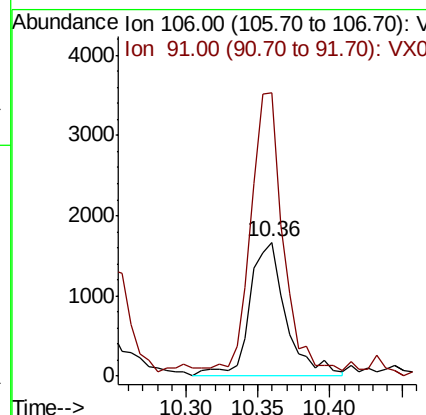
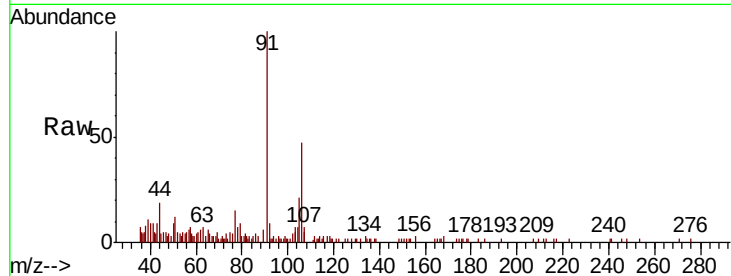




#68
m/p-Xylenes
Concen: 0.406 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.01 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

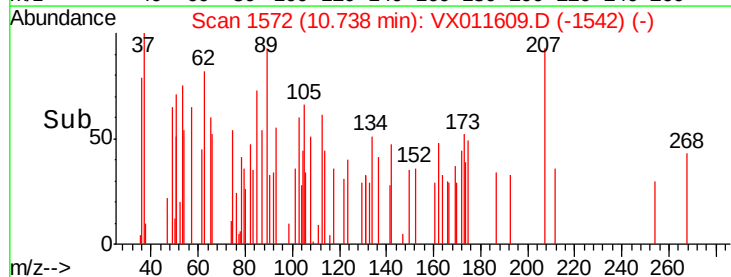
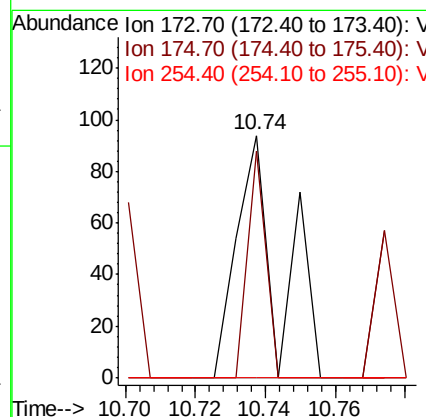
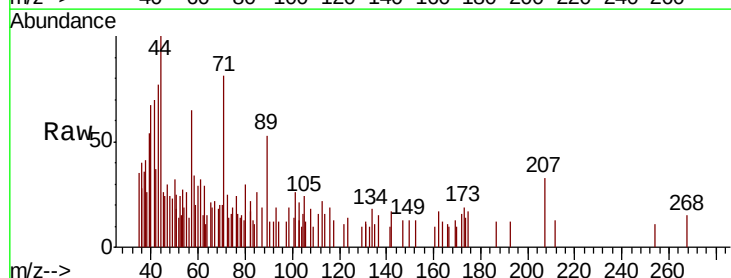
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A4-(0-1)

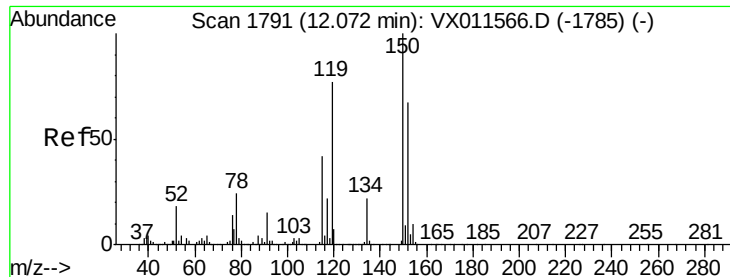
Tgt Ion:106 Resp: 2905
Ion Ratio Lower Upper
106 100
91 184.3 156.0 234.0



#71
Bromoform
Concen: 3.310 ug/l
RT: 10.74 min Scan# 1572
Delta R.T. -0.12 min
Lab File: VX011609.D
Acq: 17 Aug 2019 03:21

Tgt Ion:173 Resp: 80
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 0.0 0.1 0.1#



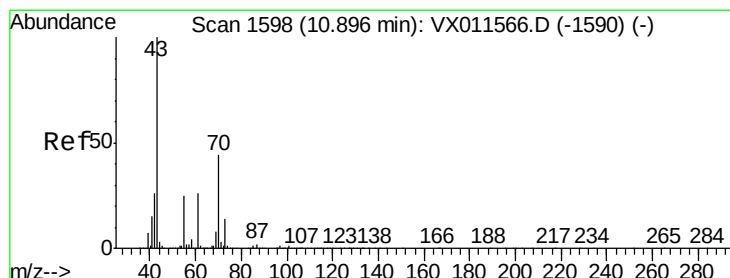
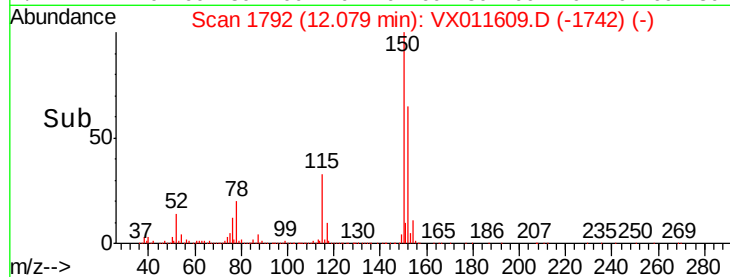
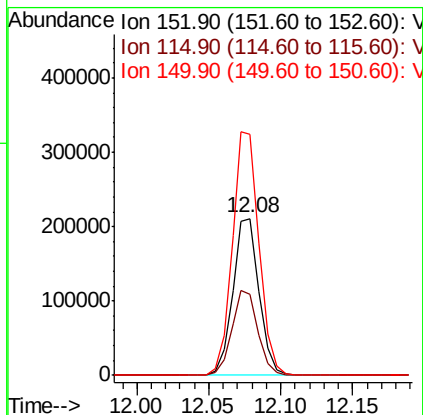
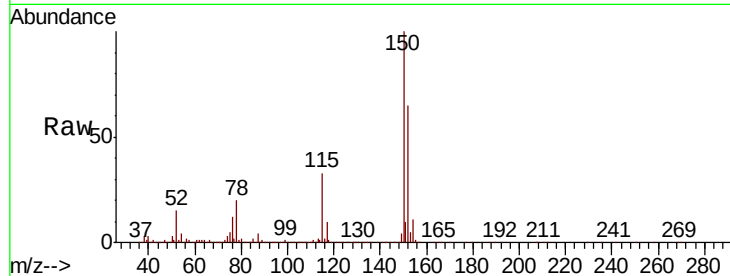


#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: VX011609.D
 Acq: 17 Aug 2019 03:21

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A4-(0-1)

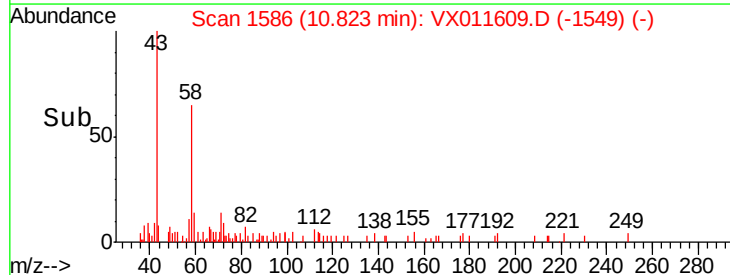
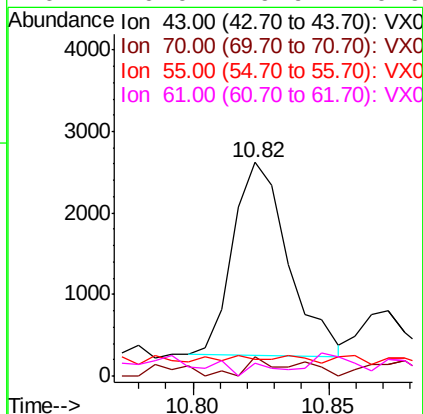
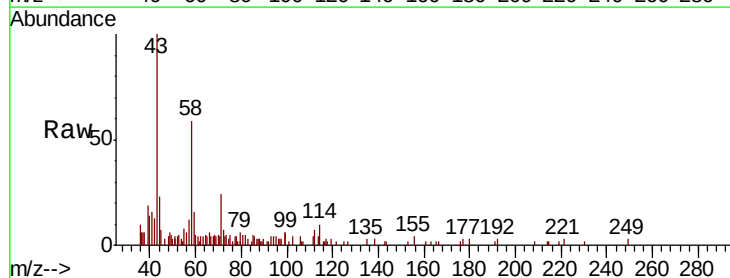
Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.7	37.3	111.9
150	157.6	0.0	346.2

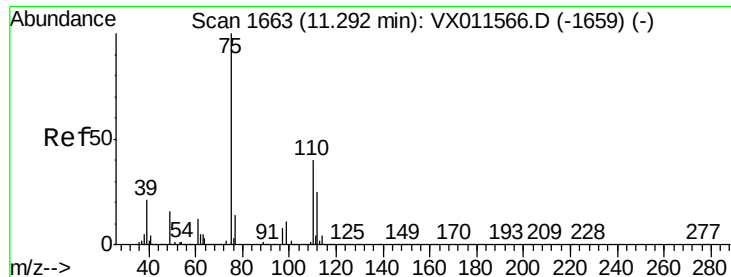


#74

N-amyl acetate
 Concen: 0.452 ug/l
 RT: 10.82 min Scan# 1586
 Delta R.T. -0.07 min
 Lab File: VX011609.D
 Acq: 17 Aug 2019 03:21

Tgt Ion	Ratio	Lower	Upper
43	100		
70	5.6	34.7	52.1#
55	2.1	19.6	29.4#
61	0.0	19.9	29.9#





#76

1,2,3-Trichloropropane

Concen: 22.746 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

Instrument :

MSVOA_X

ClientSampleId :

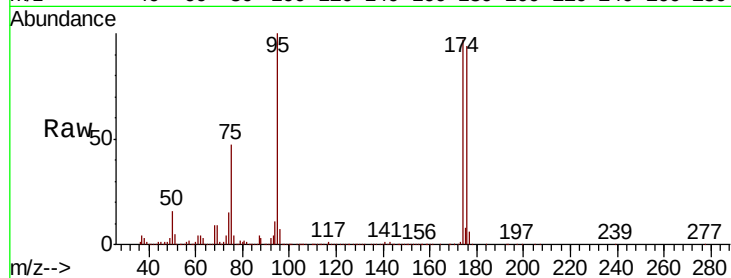
REACTOR-4-A4-(0-1)

Tgt Ion: 75 Resp: 115867

Ion Ratio Lower Upper

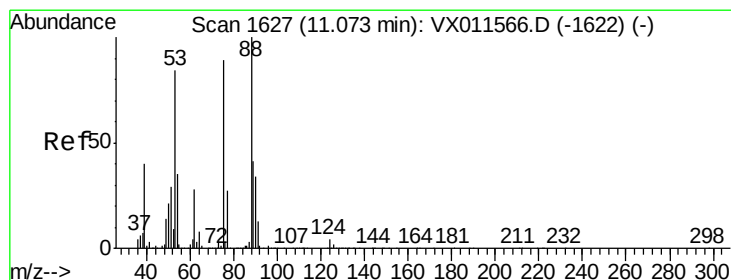
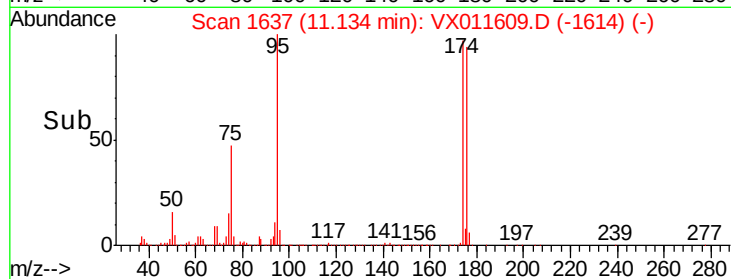
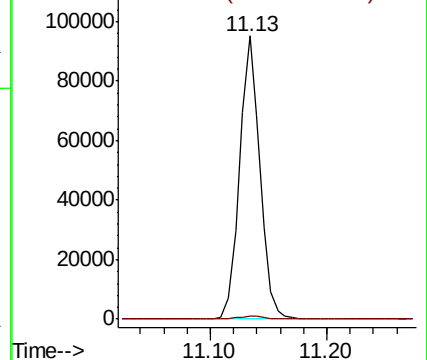
75 100

77 1.4 20.9 62.8#



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: 60.576 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011609.D

Acq: 17 Aug 2019 03:21

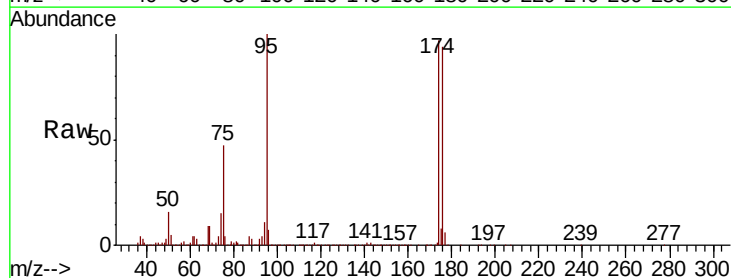
Tgt Ion: 75 Resp: 115867

Ion Ratio Lower Upper

75 100

53 0.1 77.4 116.0#

89 0.1 37.3 55.9#



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

