

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011608.D
 Acq On : 17 Aug 2019 02:58
 Operator : JC/SP
 Sample : K4265-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A3-(0-1)

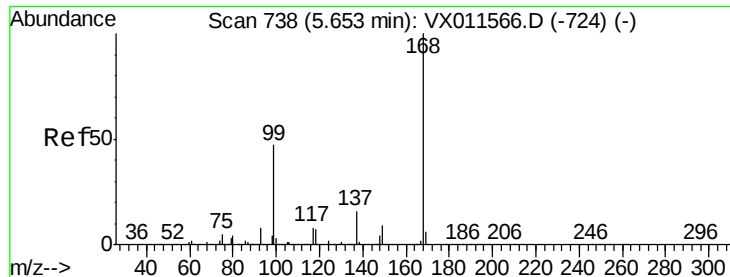
Quant Time: Aug 19 01:18:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	456416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	628606	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	521422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	261899	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	215983	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
35) Dibromofluoromethane	5.49	113	186402	45.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.68%	
50) Toluene-d8	8.71	98	717199	55.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.96%	
62) 4-Bromofluorobenzene	11.13	95	231122	42.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	403	0.214	ug/l #	5
8) Diethyl Ether	2.18	74	859	0.430	ug/l	92
11) Tert butyl alcohol	3.01	59	8943	8.612	ug/l #	78
13) Acrolein	2.33	56	386	13.333	ug/l #	67
16) Acetone	2.43	43	12012	5.644	ug/l	100
18) Methyl Acetate	2.77	43	6173	0.935	ug/l	92
20) Methylene Chloride	2.85	84	9501	2.126	ug/l	97
25) 2-Butanone	4.68	43	2748	0.822	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	26017	4.841	ug/l #	49
38) Carbon Tetrachloride	5.65	117	37963	6.411	ug/l #	15
43) Isopropyl Acetate	6.44	43	78005	8.086	ug/l	99
48) Methyl methacrylate	7.67	41	4816	1.008	ug/l #	16
49) 1,4-Dioxane	7.74	88	108	0.850	ug/l #	25
51) 4-Methyl-2-Pentanone	8.61	43	71582	11.336	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	34367	5.444	ug/l #	64
59) 2-Hexanone	9.54	43	84519	17.357	ug/l #	50
68) m/p-Xylenes	10.36	106	2122	0.298	ug/l	87
71) Bromoform	10.79	173	89	3.312	ug/l #	28
74) N-amyl acetate	10.82	43	3545	0.491	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	113722	22.899	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	113722	60.953	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

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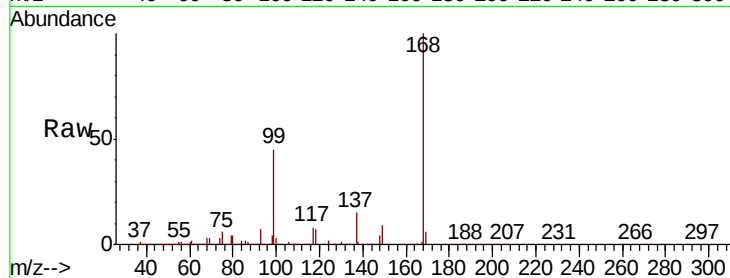
REACTOR-4-A3-(0-1)

Tgt Ion: 168 Resp: 456416

Ion Ratio Lower Upper

168 100

99 44.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

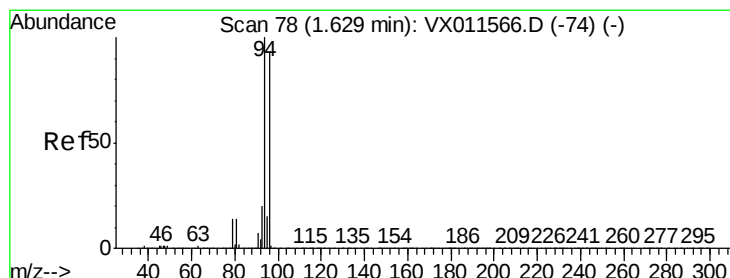
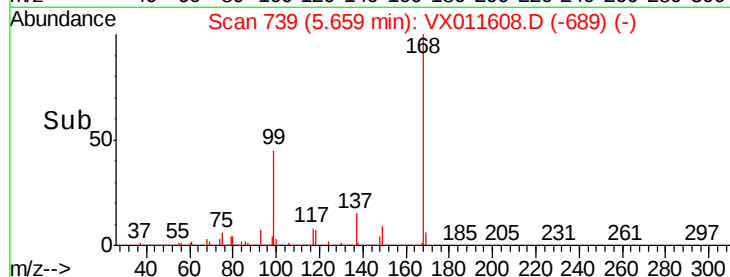
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.214 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011608.D

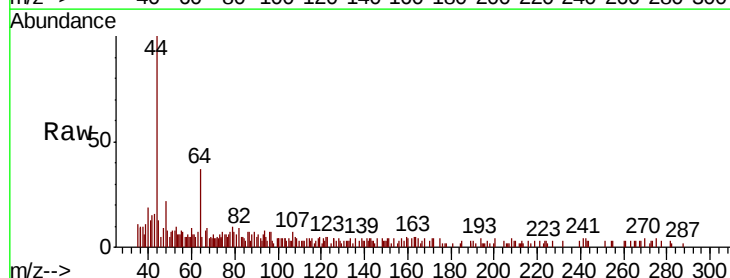
Acq: 17 Aug 2019 02:58

Tgt Ion: 94 Resp: 403

Ion Ratio Lower Upper

94 100

96 1.9 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

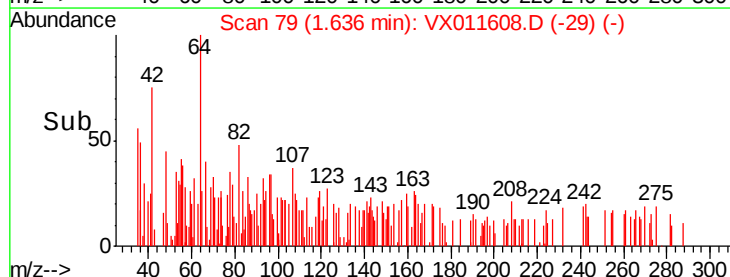
300

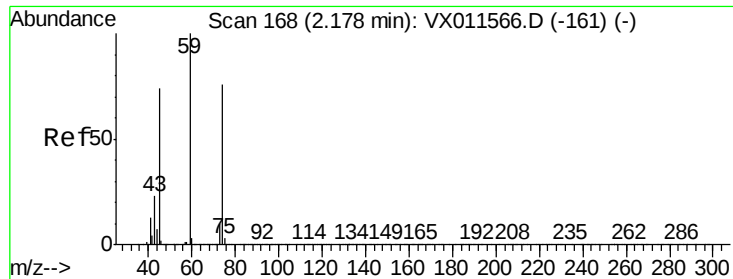
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.430 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

Instrument :

MSVOA_X

ClientSampleId :

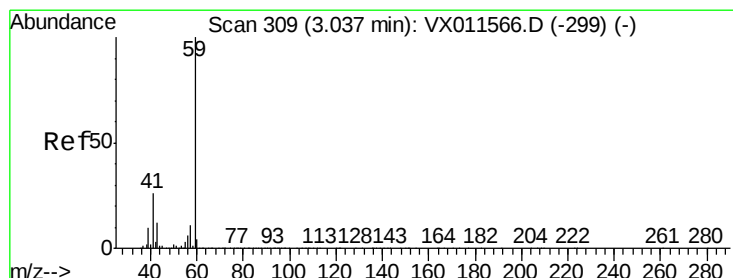
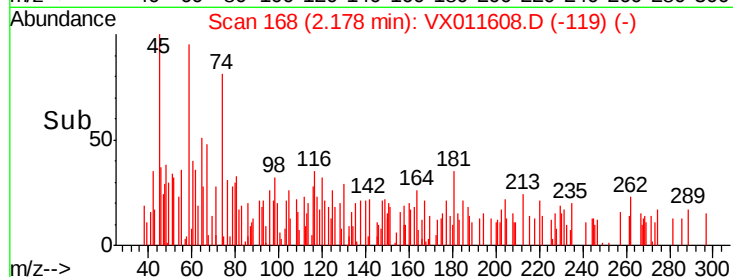
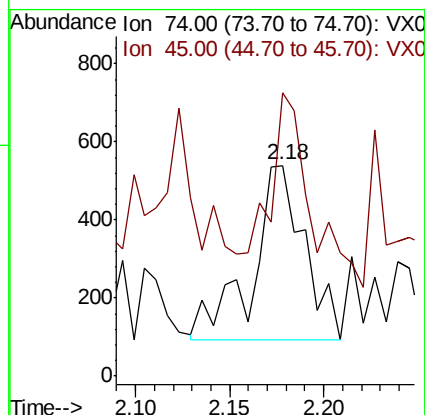
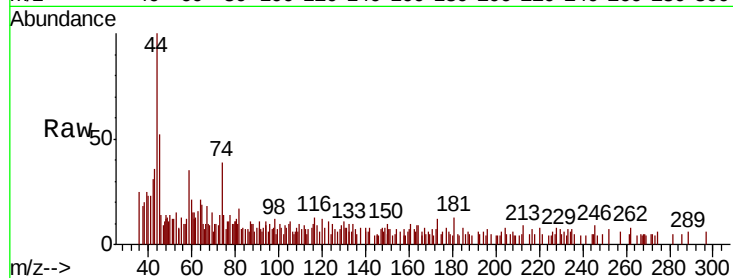
REACTOR-4-A3-(0-1)

Tgt Ion: 74 Resp: 859

Ion Ratio Lower Upper

74 100

45 88.5 48.2 144.6



#11

Tert butyl alcohol

Concen: 8.612 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011608.D

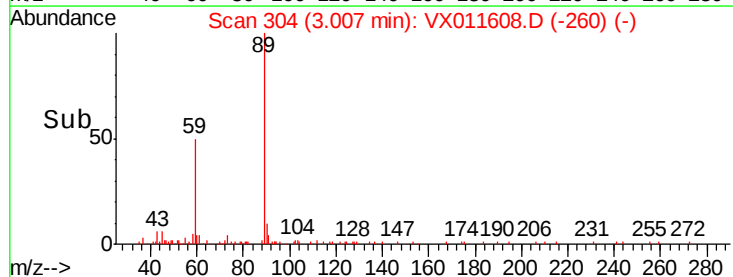
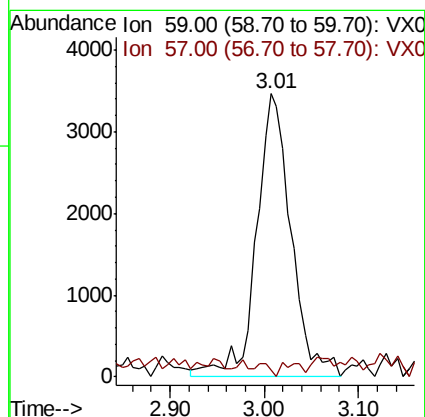
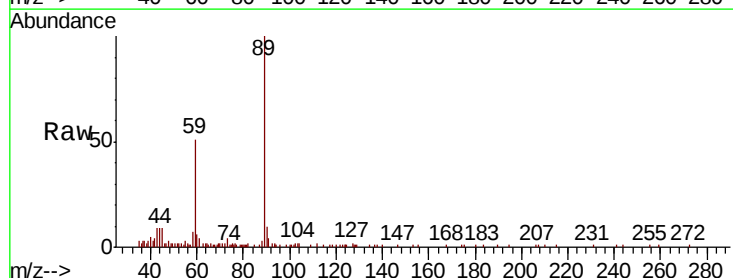
Acq: 17 Aug 2019 02:58

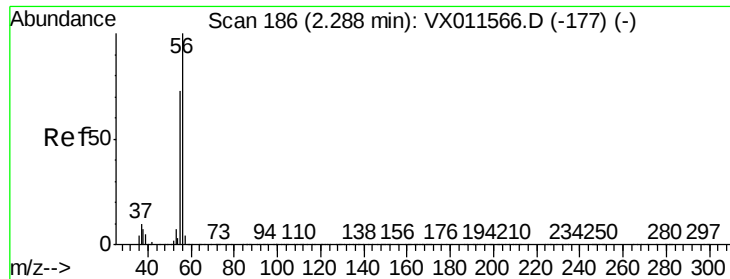
Tgt Ion: 59 Resp: 8943

Ion Ratio Lower Upper

59 100

57 2.7 8.7 13.1#

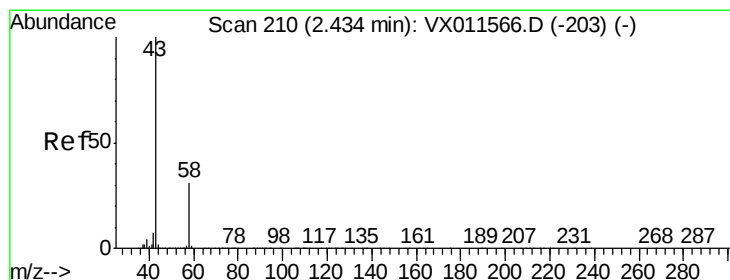
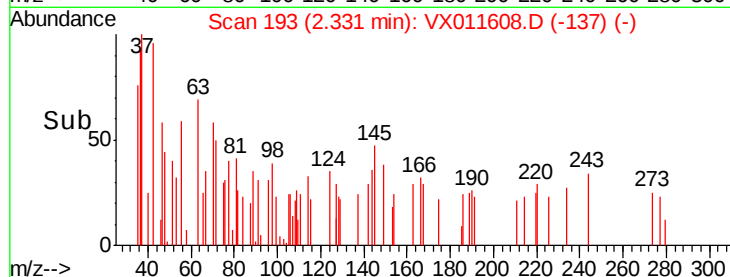
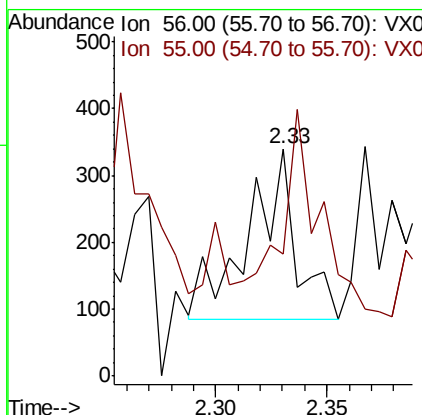
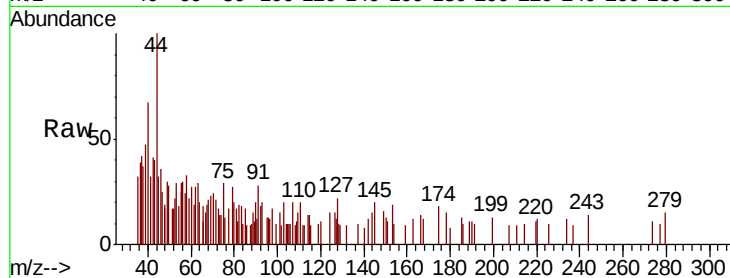




#13
Acrolein
Concen: 13.333 ug/l
RT: 2.33 min Scan# 193
Delta R.T. 0.04 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

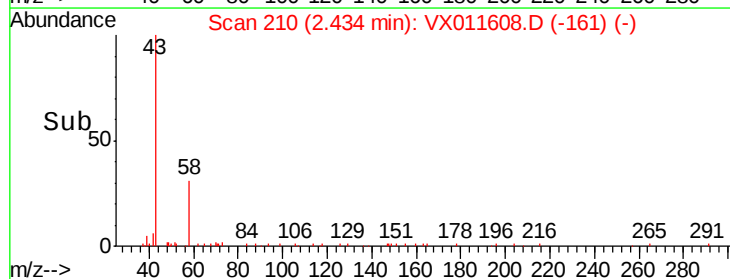
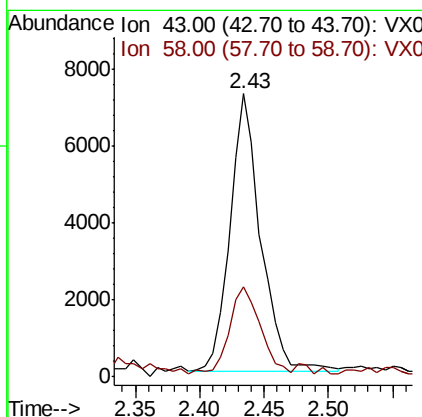
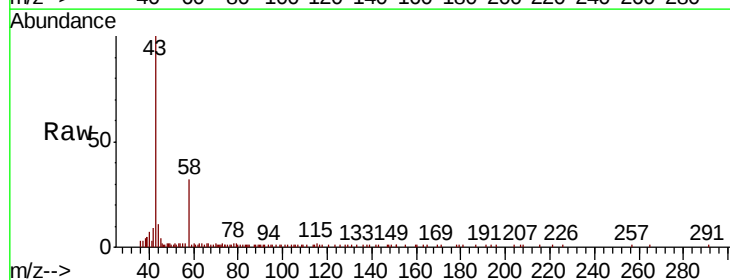
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A3-(0-1)

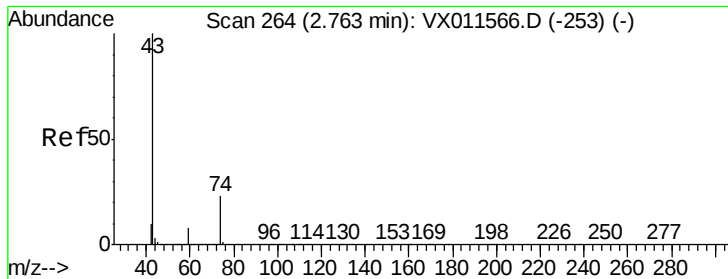
Tgt Ion: 56 Resp: 386
Ion Ratio Lower Upper
56 100
55 96.1 55.5 83.3#



#16
Acetone
Concen: 5.644 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

Tgt Ion: 43 Resp: 12012
Ion Ratio Lower Upper
43 100
58 31.2 25.2 37.8

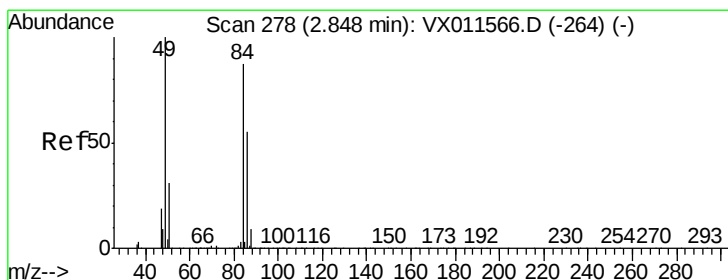
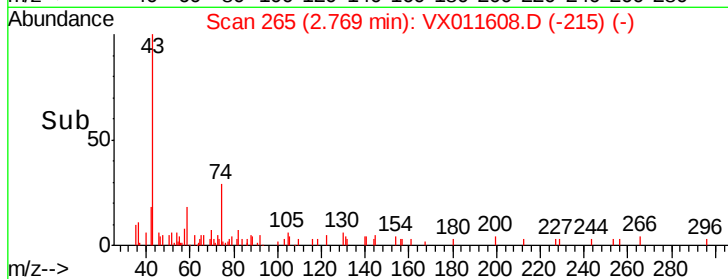
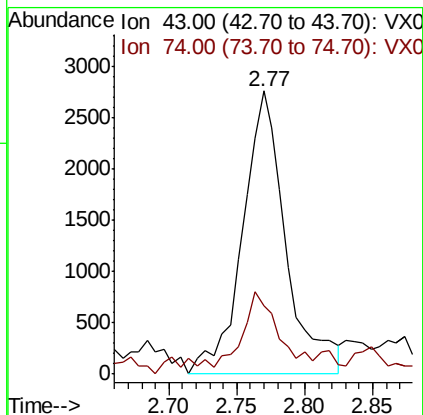
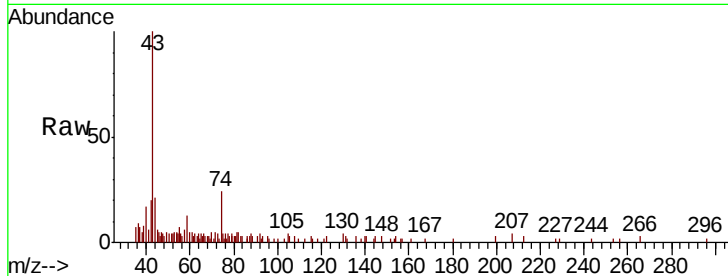




#18
Methyl Acetate
Concen: 0.935 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

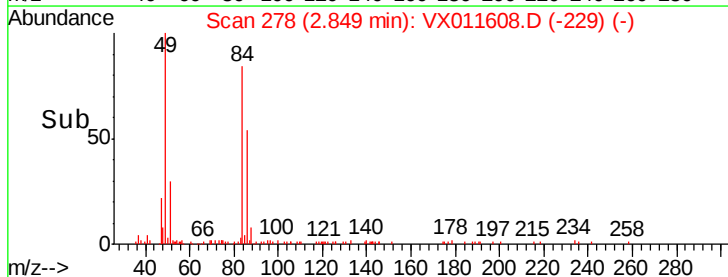
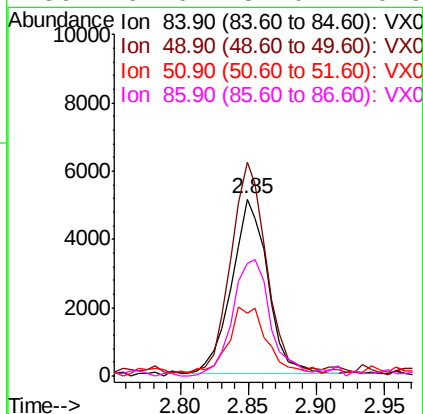
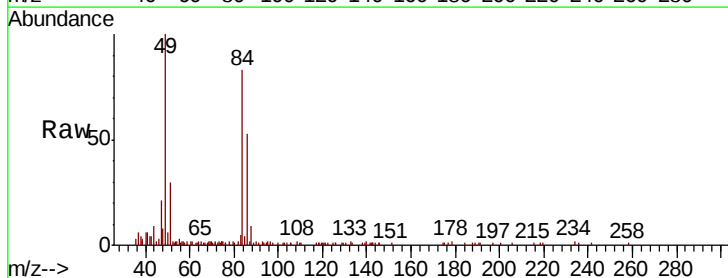
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A3-(0-1)

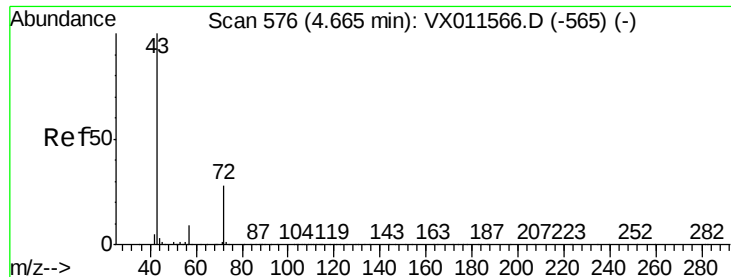
Tgt Ion: 43 Resp: 6173
Ion Ratio Lower Upper
43 100
74 20.8 19.7 29.5



#20
Methylene Chloride
Concen: 2.126 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

Tgt Ion: 84 Resp: 9501
Ion Ratio Lower Upper
84 100
49 120.0 92.4 138.6
51 35.0 28.5 42.7
86 64.6 51.0 76.6





#25

2-Butanone

Concen: 0.822 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

Instrument :

MSVOA_X

ClientSampleId :

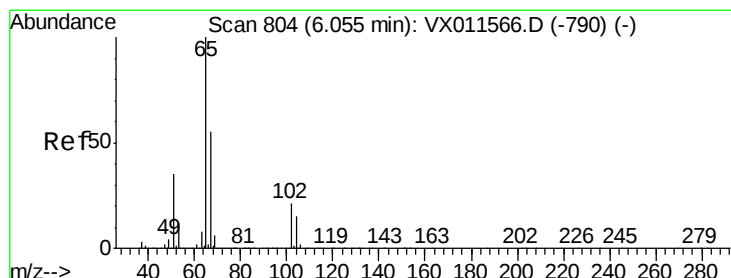
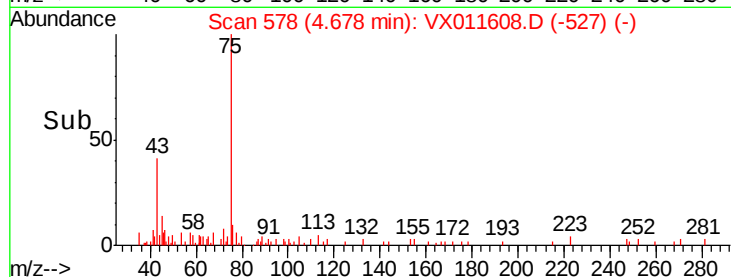
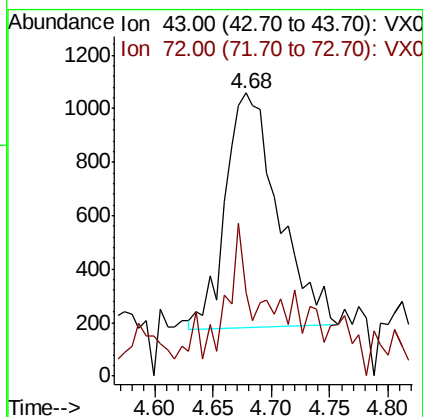
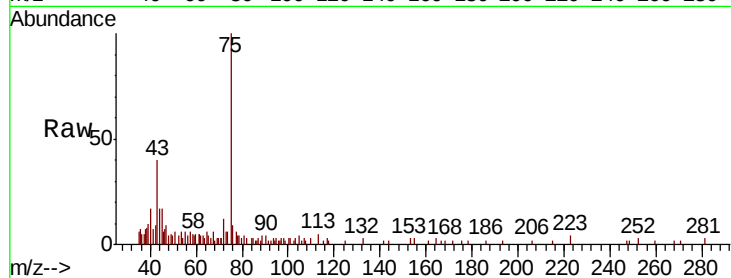
REACTOR-4-A3-(0-1)

Tgt Ion: 43 Resp: 2748

Ion Ratio Lower Upper

43 100

72 15.4 22.2 33.4#



#33

1,2-Dichloroethane-d4

Concen: 51.028 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011608.D

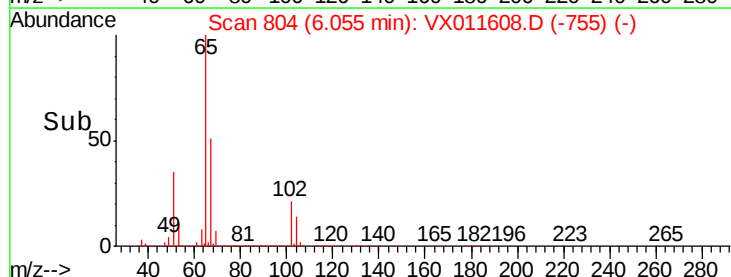
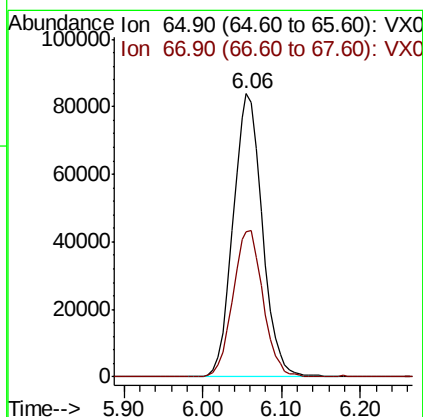
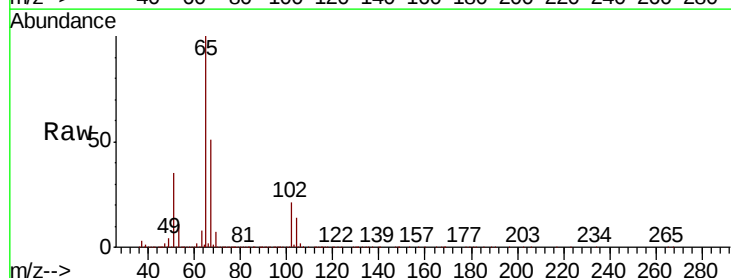
Acq: 17 Aug 2019 02:58

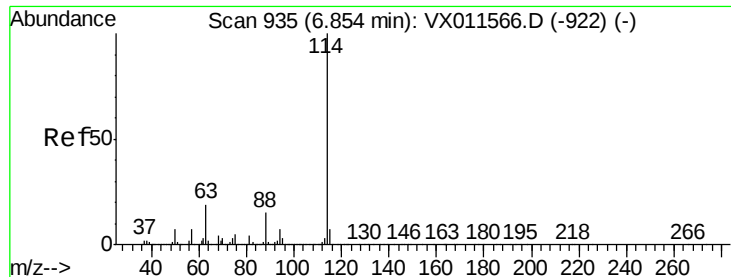
Tgt Ion: 65 Resp: 215983

Ion Ratio Lower Upper

65 100

67 53.1 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: VX011608.D

Acq: 17 Aug 2019 02:58

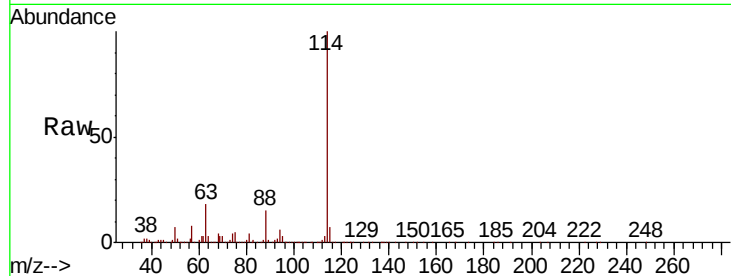
Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A3-(0-1)

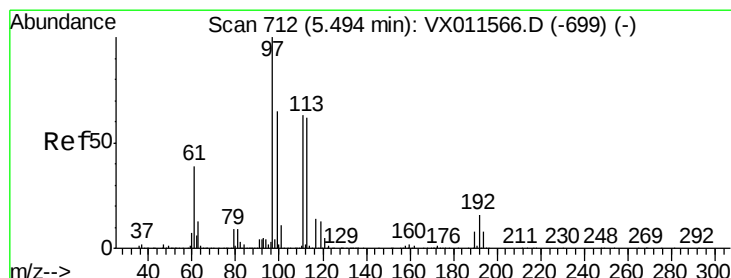
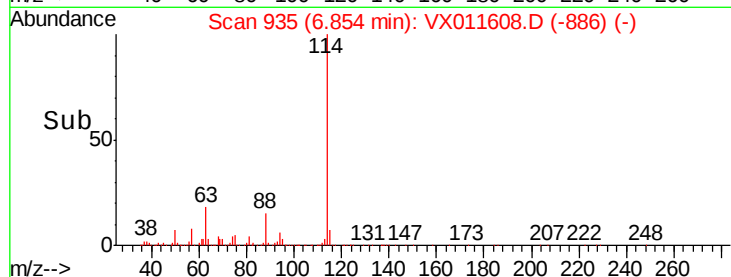
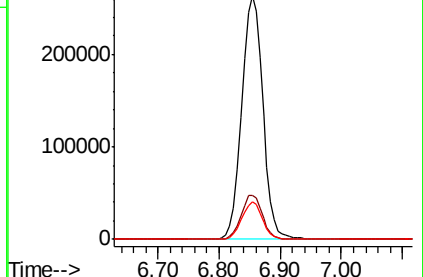
Tgt Ion:	114	Resp:	628606
Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	37.8
88	15.2	0.0	30.2



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: 45.337 ug/l

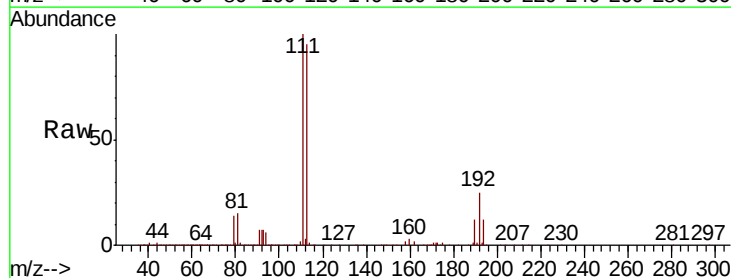
RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

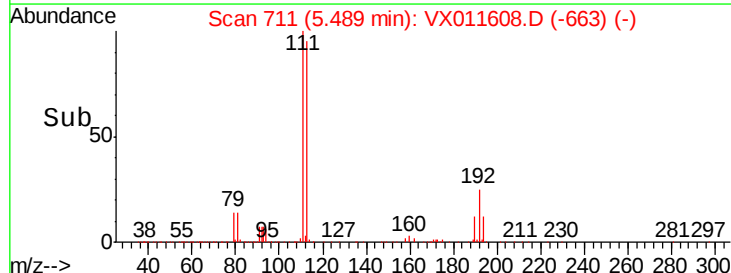
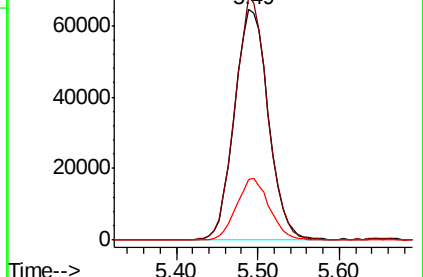
Tgt Ion:	113	Resp:	186402
Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.1	121.7
192	26.0	20.8	31.2

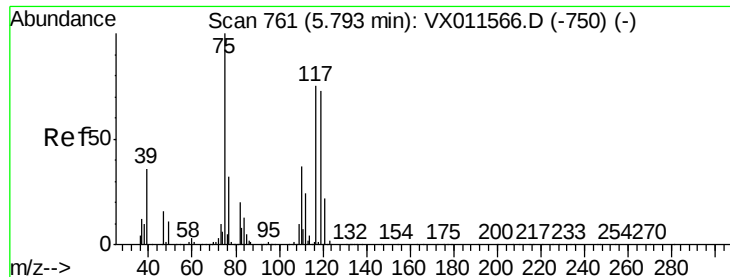


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

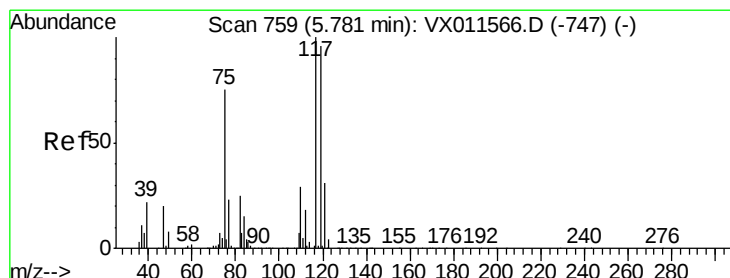
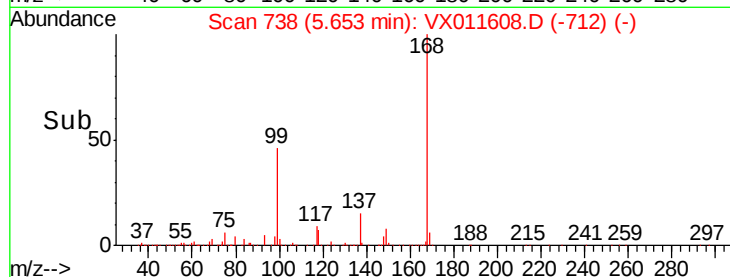
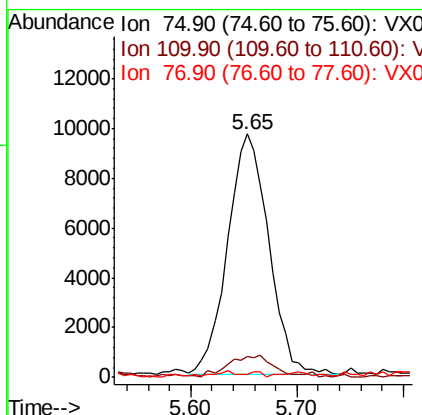
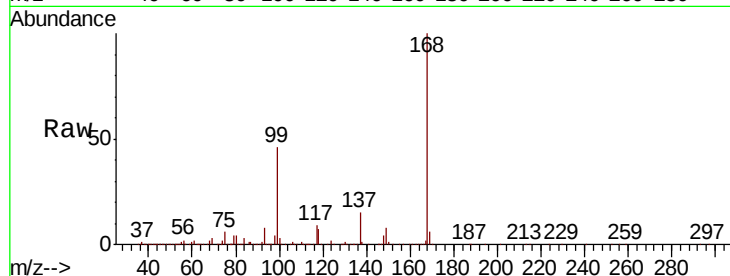




#36
 1,1-Dichloropropene
 Concen: 4.841 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011608.D
 Acq: 17 Aug 2019 02:58

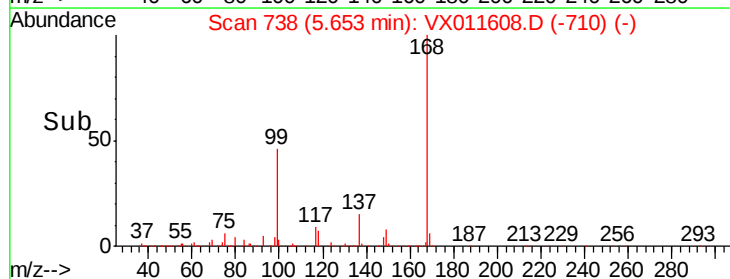
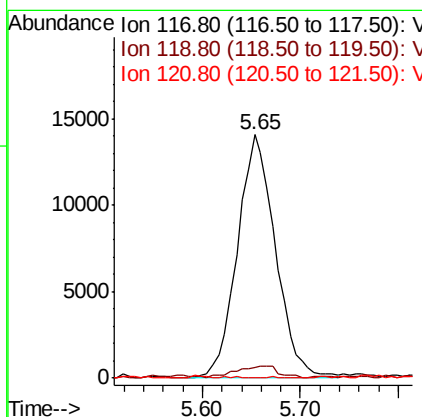
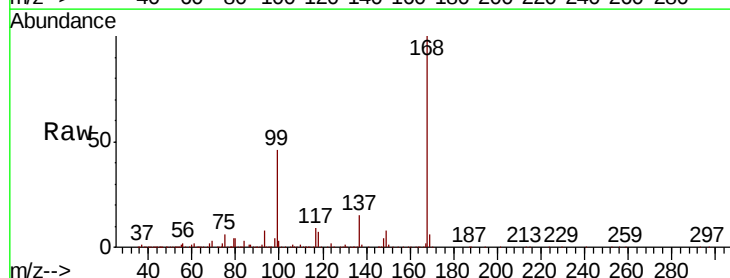
Instrument :
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 REACTOR-4-A3-(0-1)

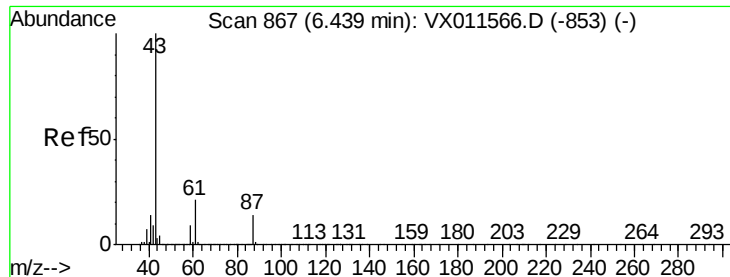
Tgt Ion: 75 Resp: 26017
 Ion Ratio Lower Upper
 75 100
 110 10.2 19.4 58.1#
 77 0.8 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.411 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011608.D
 Acq: 17 Aug 2019 02:58

Tgt Ion: 117 Resp: 37963
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.9 115.3#
 121 0.0 24.8 37.2#



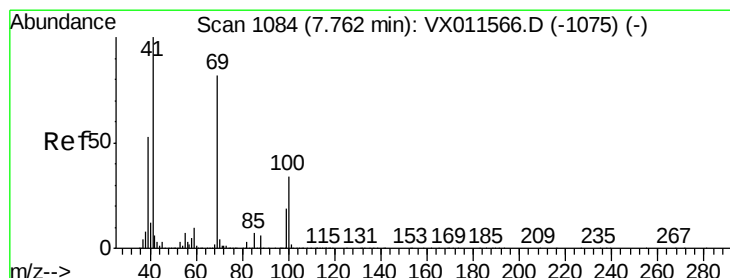
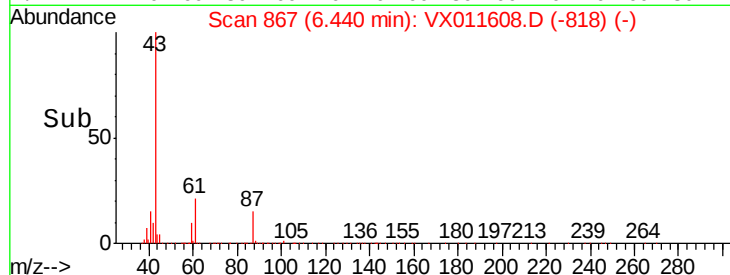
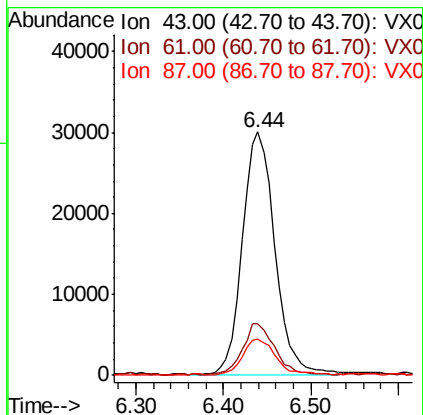
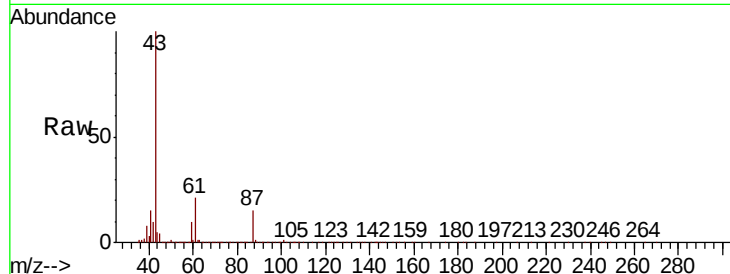


#43

Isopropyl Acetate
 Concen: 8.086 ug/l
 RT: 6.44 min Scan# 867
 Delta R.T. 0.00 min
 Lab File: VX011608.D
 Acq: 17 Aug 2019 02:58

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A3-(0-1)

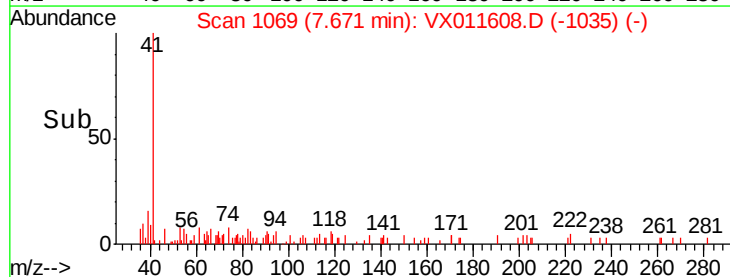
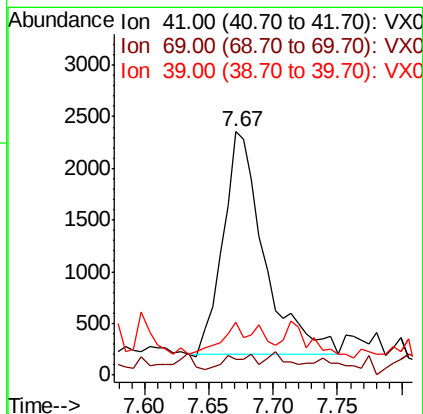
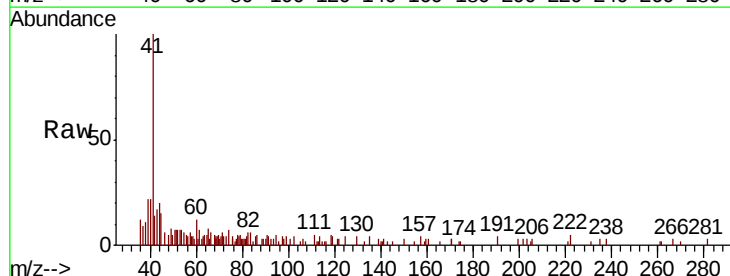
Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.9	16.6	24.8
87	14.9	11.4	17.2

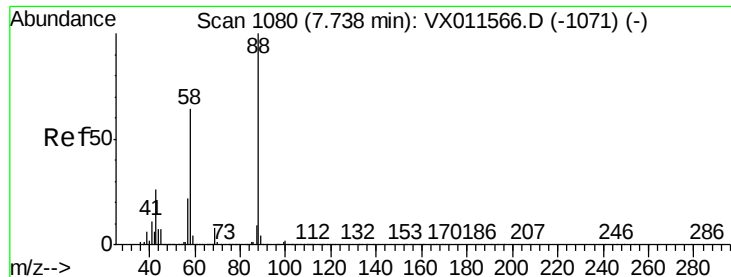


#48

Methyl methacrylate
 Concen: 1.008 ug/l
 RT: 7.67 min Scan# 1069
 Delta R.T. -0.09 min
 Lab File: VX011608.D
 Acq: 17 Aug 2019 02:58

Tgt Ion	Ratio	Lower	Upper
41	100		
69	2.9	67.9	101.9#
39	0.0	41.6	62.4#

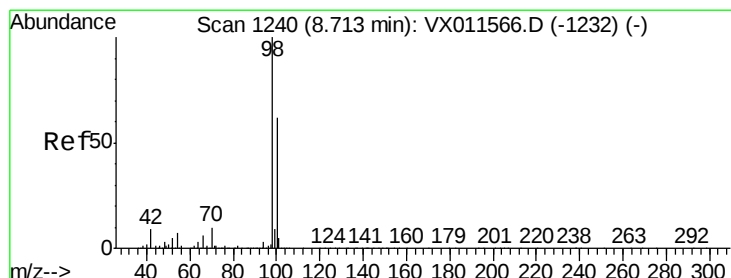
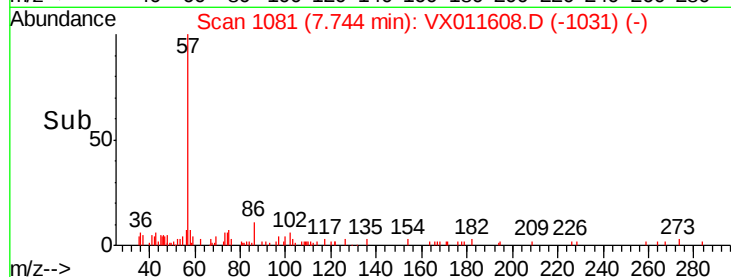
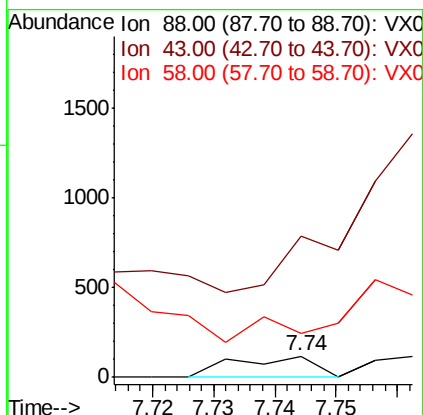
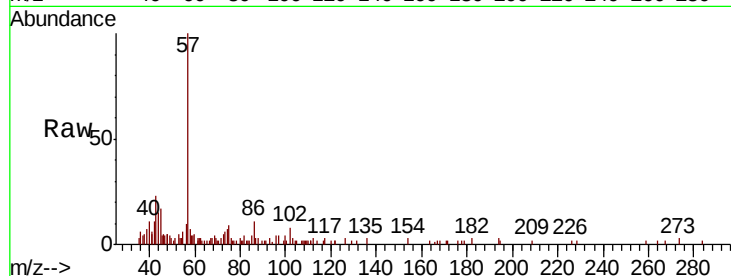




#49
1,4-Dioxane
Concen: 0.850 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

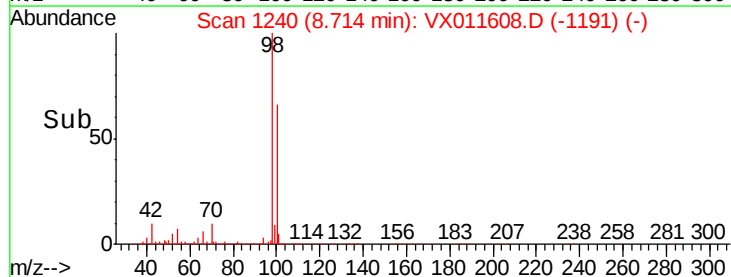
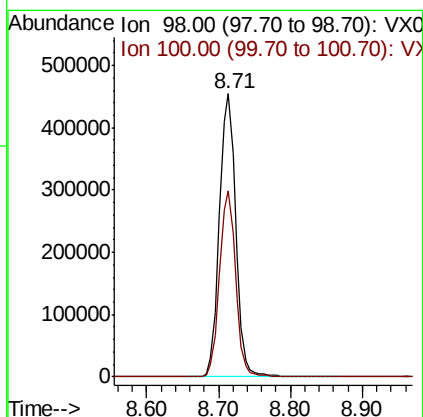
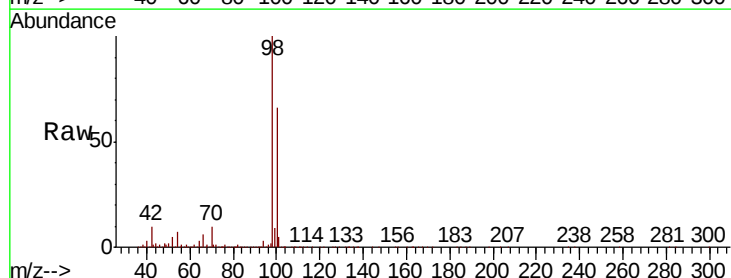
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A3-(0-1)

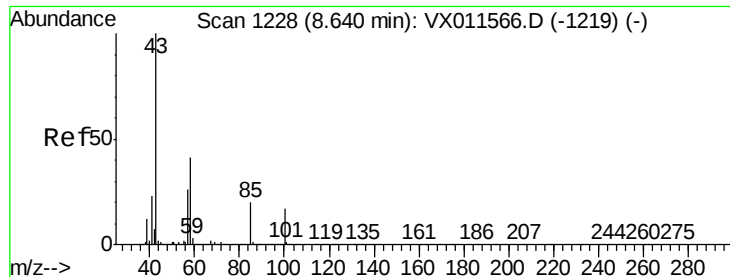
Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.4	35.0#
58	0.0	54.3	81.5#



#50
Toluene-d8
Concen: 55.984 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.4	78.6

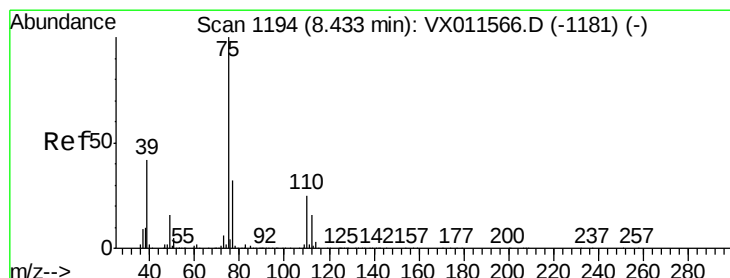
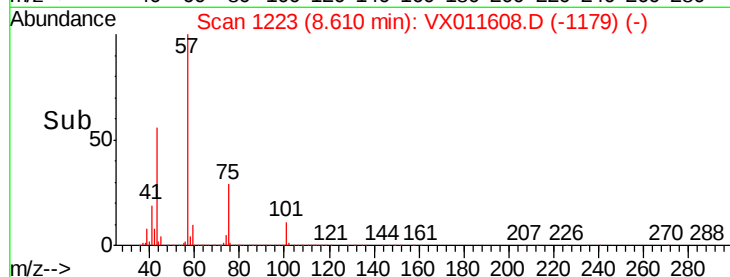
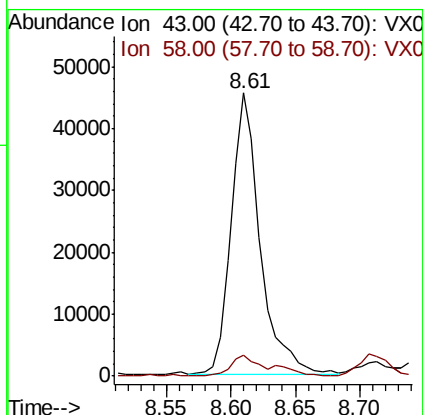
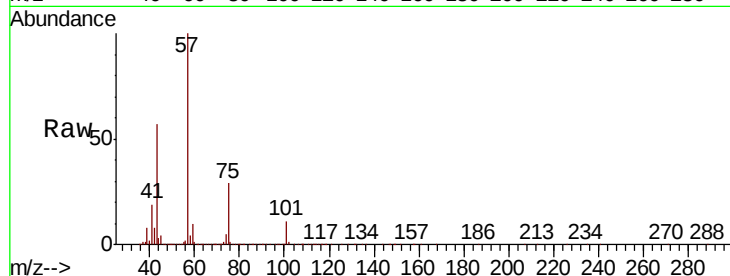




#51
 4-Methyl-2-Pentanone
 Concen: 11.336 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011608.D
 Acq: 17 Aug 2019 02:58

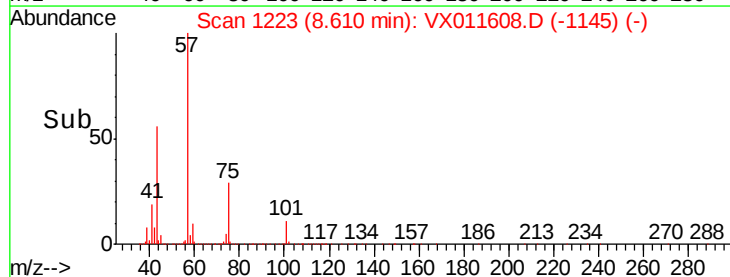
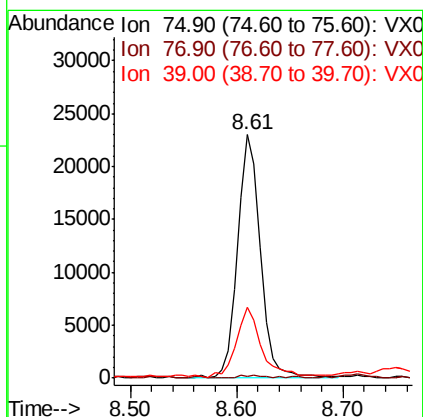
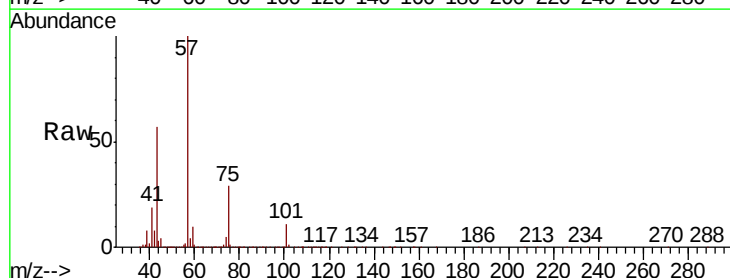
Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-A3-(0-1)

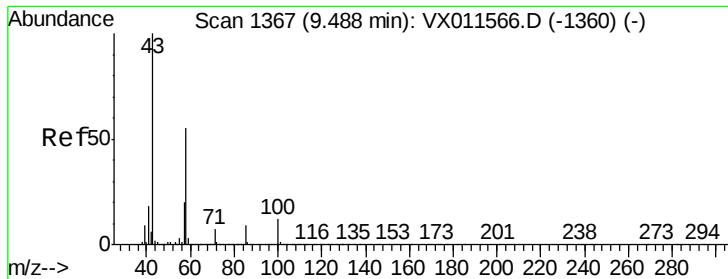
Tgt Ion: 43 Resp: 71582
 Ion Ratio Lower Upper
 43 100
 58 6.5 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.444 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011608.D
 Acq: 17 Aug 2019 02:58

Tgt Ion: 75 Resp: 34367
 Ion Ratio Lower Upper
 75 100
 77 0.2 25.5 38.3#
 39 28.7 33.6 50.4#

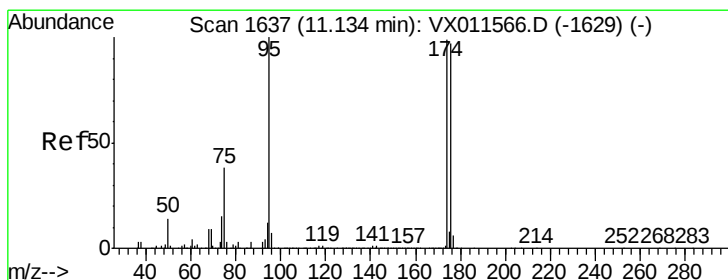
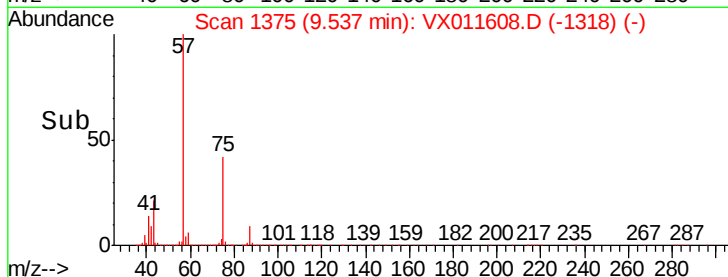
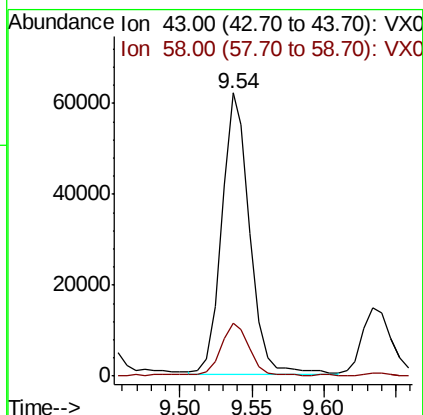
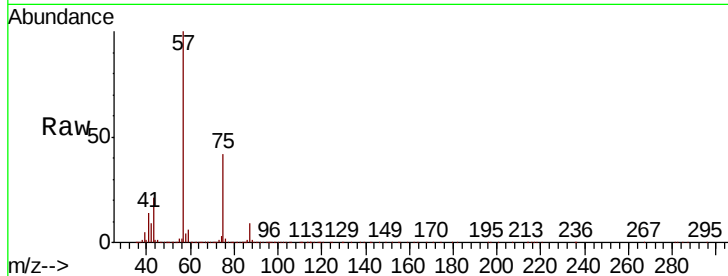




#59
2-Hexanone
Concen: 17.357 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

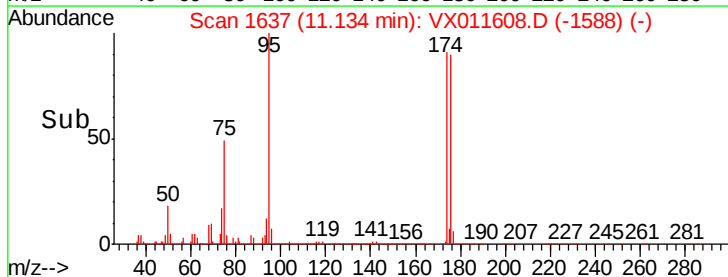
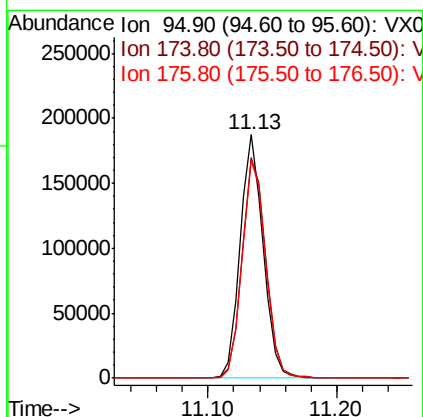
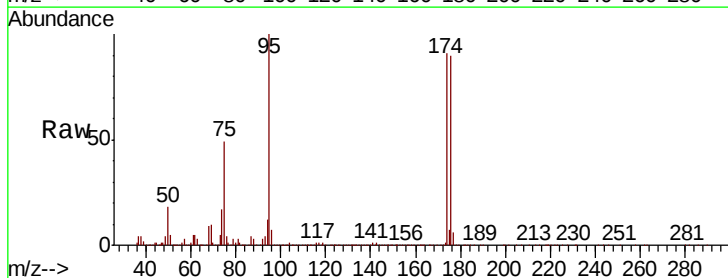
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A3-(0-1)

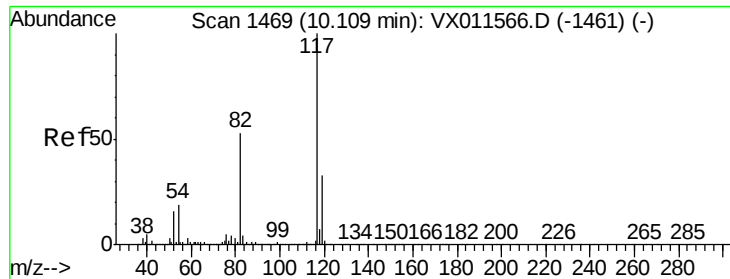
Tgt Ion: 43 Resp: 84519
Ion Ratio Lower Upper
43 100
58 18.6 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 42.743 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

Tgt Ion: 95 Resp: 231122
Ion Ratio Lower Upper
95 100
174 92.8 0.0 200.6
176 91.1 0.0 196.6

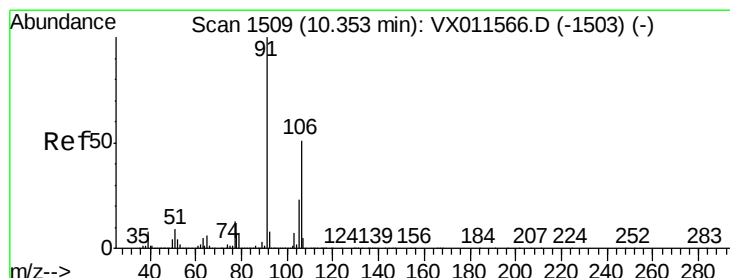
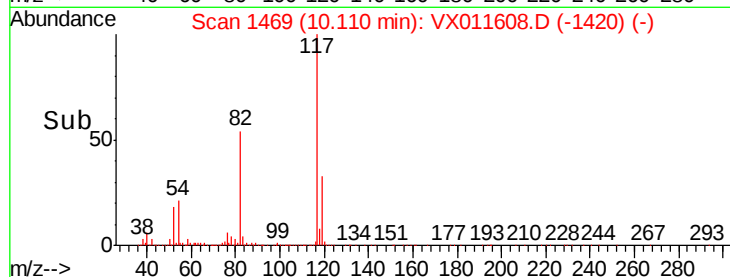
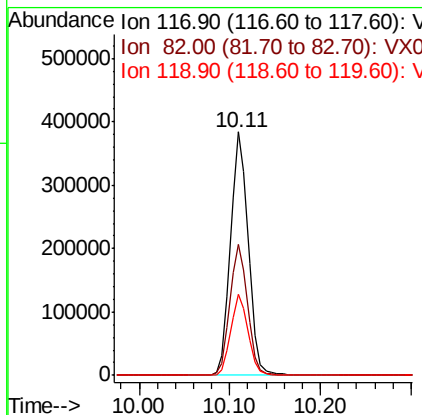
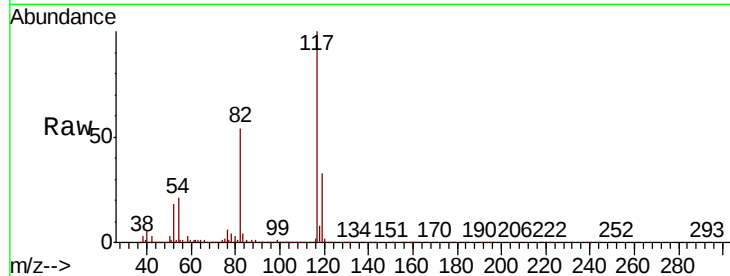




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

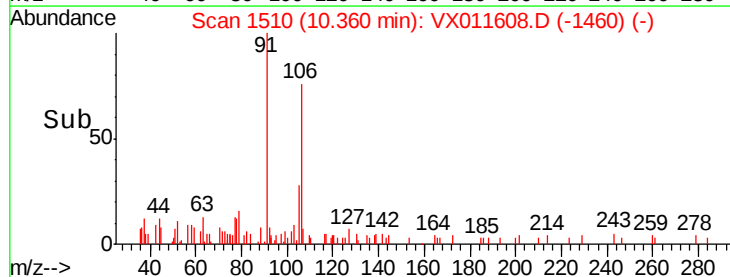
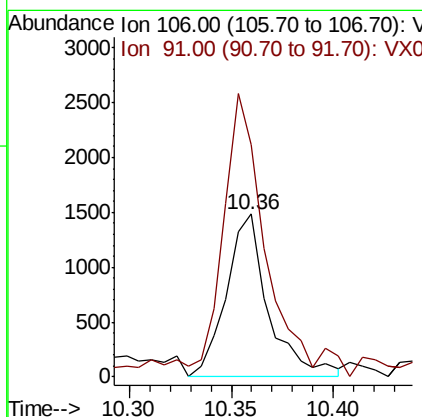
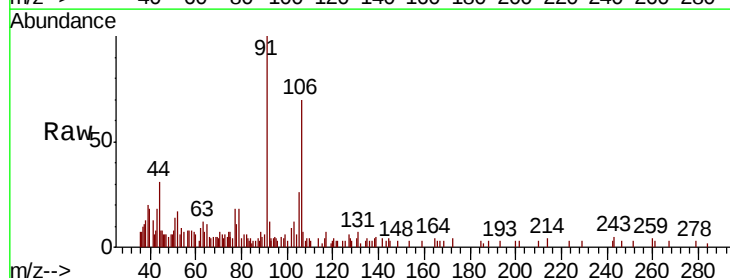
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-A3-(0-1)

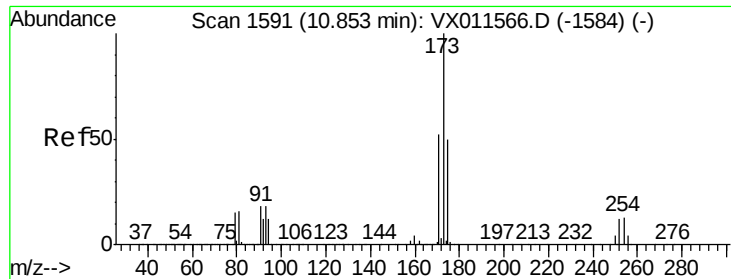
Tgt Ion:117 Resp: 521422
Ion Ratio Lower Upper
117 100
82 53.7 42.0 63.0
119 33.4 26.5 39.7



#68
m/p-Xylenes
Concen: 0.298 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.01 min
Lab File: VX011608.D
Acq: 17 Aug 2019 02:58

Tgt Ion:106 Resp: 2122
Ion Ratio Lower Upper
106 100
91 176.3 156.0 234.0





#71

Bromoform

Concen: 3.312 ug/l

RT: 10.79 min Scan# 1581

Delta R.T. -0.06 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A3-(0-1)

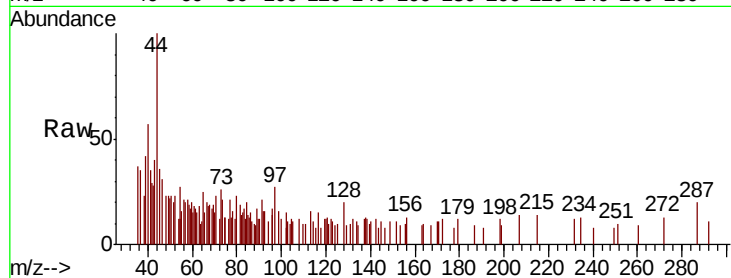
Tgt Ion:173 Resp: 89

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

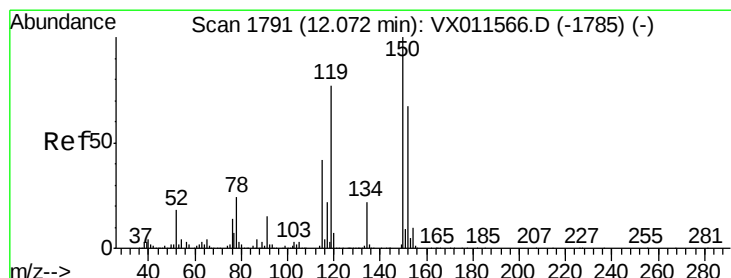
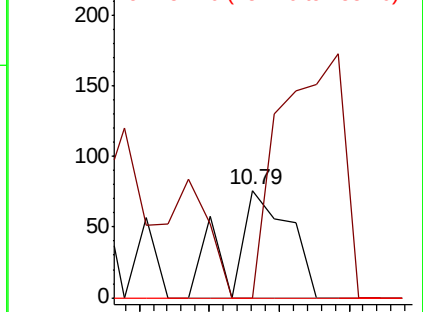
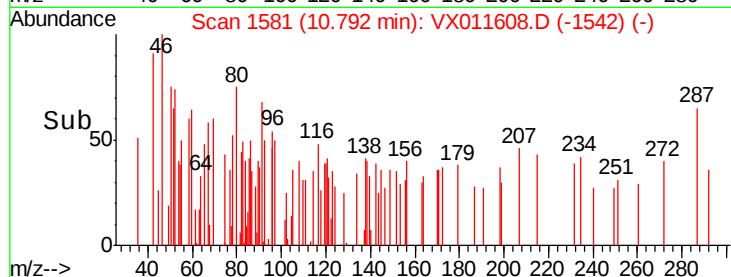
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

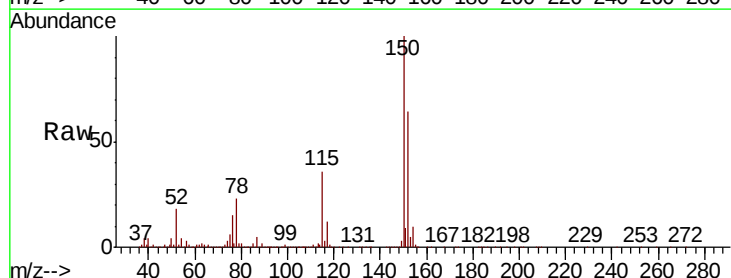
Tgt Ion:152 Resp: 261899

Ion Ratio Lower Upper

152 100

115 53.8 37.3 111.9

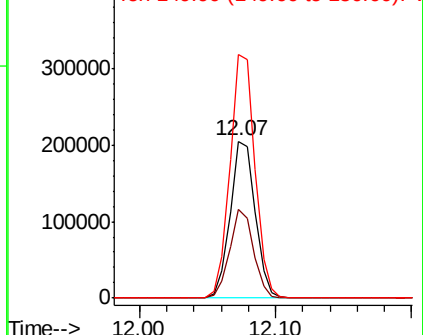
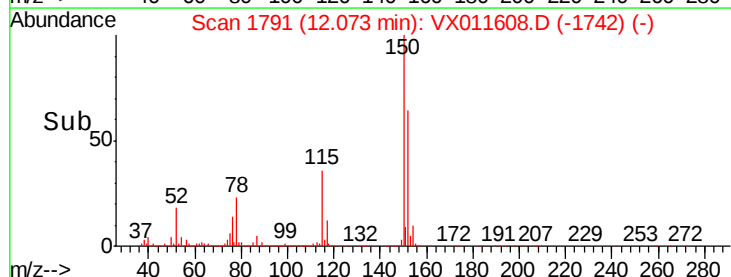
150 154.9 0.0 346.2

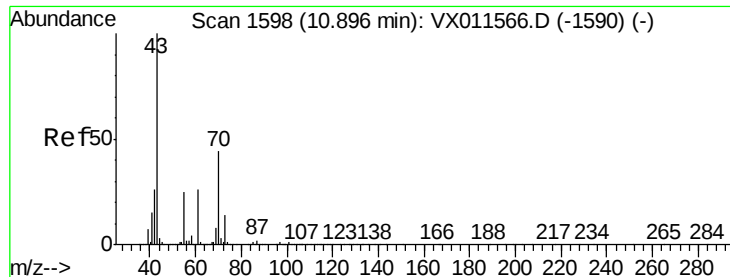


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.491 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A3-(0-1)

Tgt Ion: 43 Resp: 3545

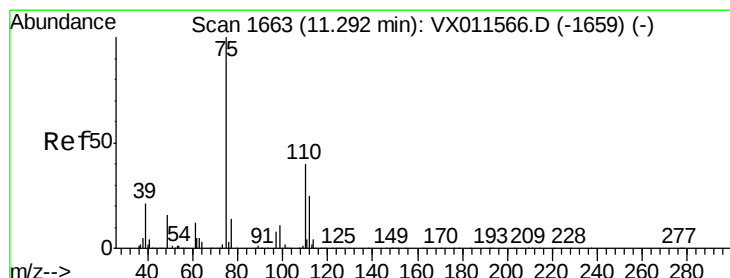
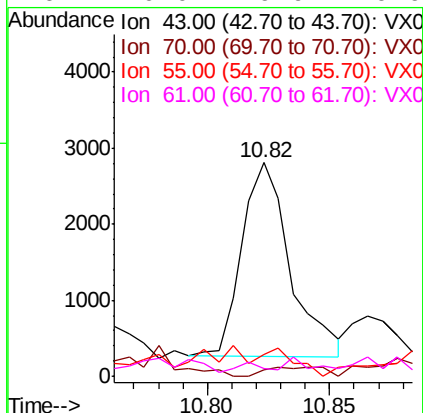
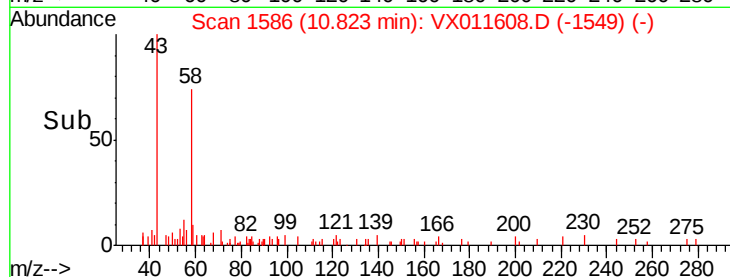
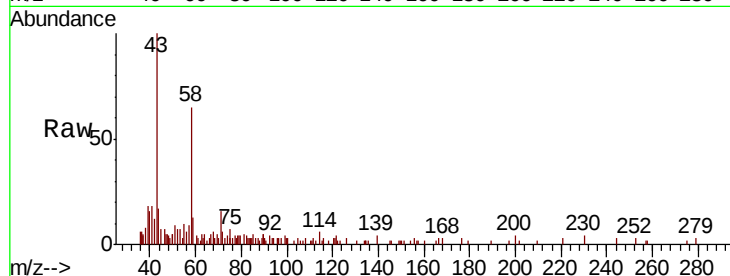
Ion Ratio Lower Upper

43 100

70 5.7 34.7 52.1#

55 0.0 19.6 29.4#

61 0.0 19.9 29.9#



#76

1,2,3-Trichloropropane

Concen: 22.899 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011608.D

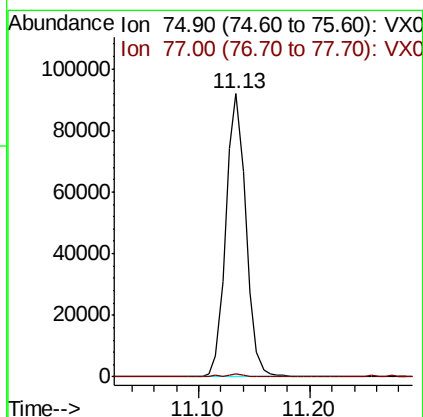
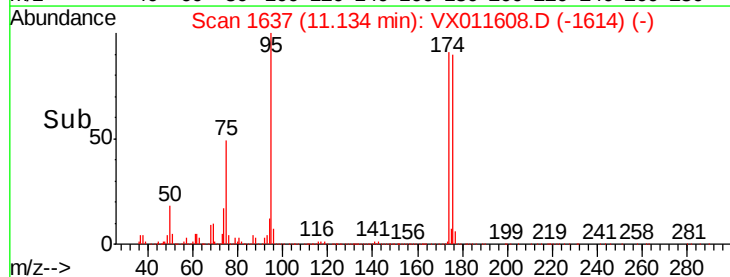
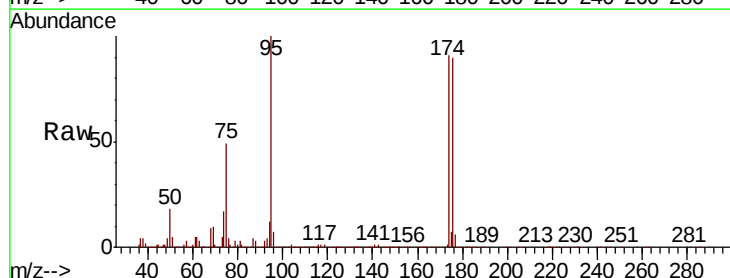
Acq: 17 Aug 2019 02:58

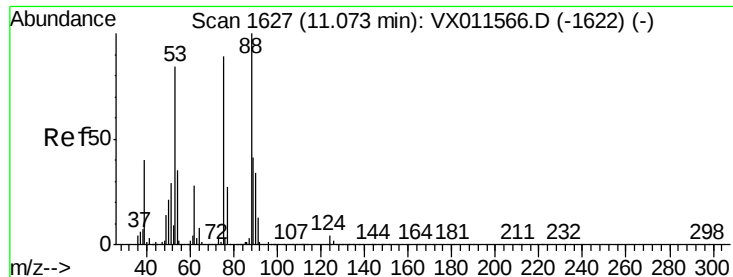
Tgt Ion: 75 Resp: 113722

Ion Ratio Lower Upper

75 100

77 1.2 20.9 62.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.953 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011608.D

Acq: 17 Aug 2019 02:58

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-A3-(0-1)

Tgt Ion: 75 Resp: 113722

Ion Ratio Lower Upper

75 100

53 0.4 77.4 116.0#

89 0.1 37.3 55.9#

