

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011605.D
 Acq On : 17 Aug 2019 01:47
 Operator : JC/SP
 Sample : K4265-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-B-(3.4)

Quant Time: Aug 19 01:17:37 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	458069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	622630	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	478401	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	264697	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	214187	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
35) Dibromofluoromethane	5.49	113	185607	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	
50) Toluene-d8	8.71	98	712821	56.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.36%	
62) 4-Bromofluorobenzene	11.13	95	242995	45.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.74%	

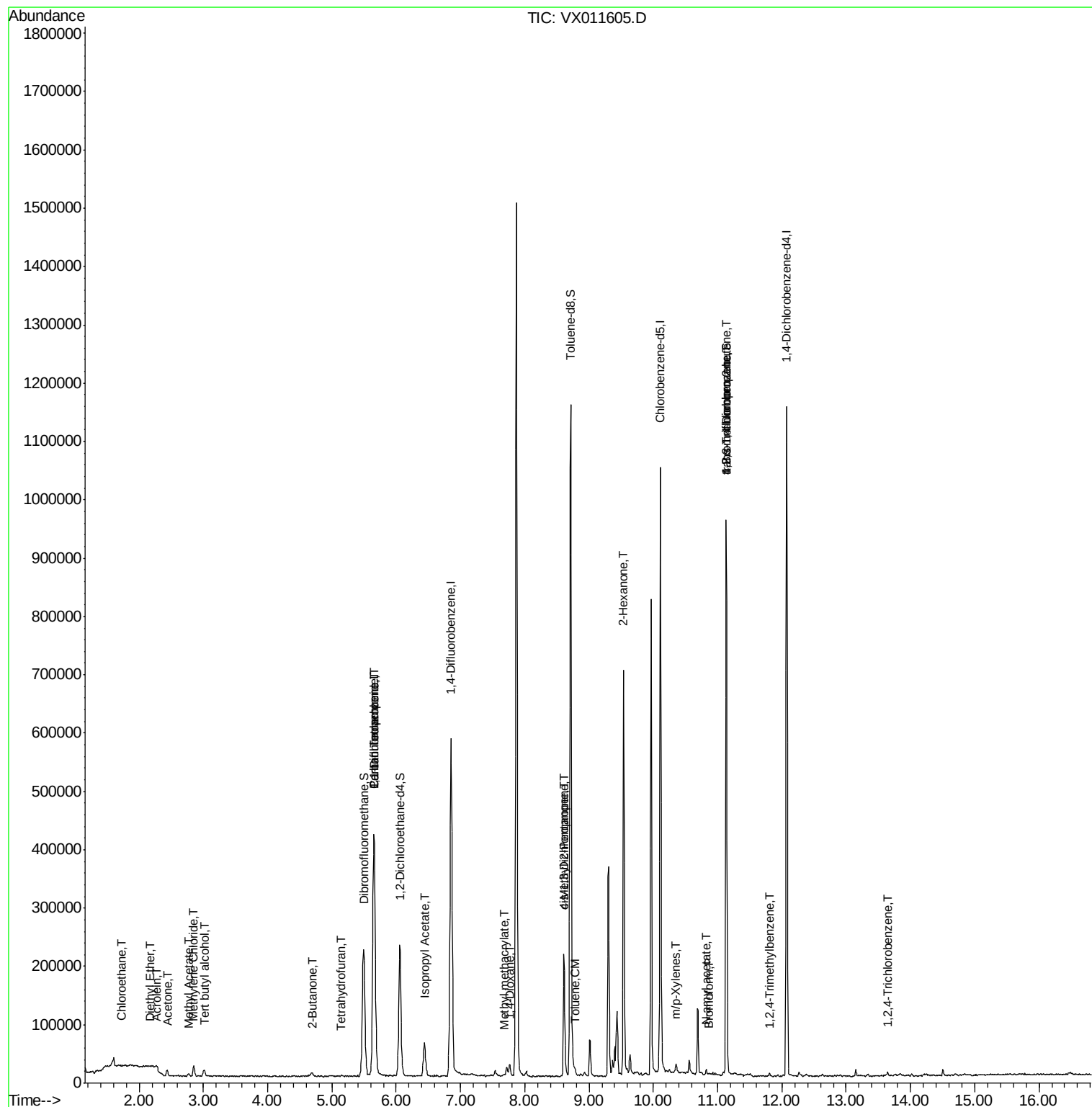
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.74	64	801	0.401	ug/l #	43
8) Diethyl Ether	2.18	74	654	0.326	ug/l	76
11) Tert butyl alcohol	3.01	59	7387	7.088	ug/l #	71
13) Acrolein	2.28	56	782	14.504	ug/l #	37
16) Acetone	2.43	43	11815	5.531	ug/l	99
18) Methyl Acetate	2.77	43	6075	0.917	ug/l #	88
20) Methylene Chloride	2.85	84	8671	1.933	ug/l #	94
25) 2-Butanone	4.70	43	3791	1.131	ug/l #	67
29) Tetrahydrofuran	5.13	42	745	0.339	ug/l #	59
36) 1,1-Dichloropropene	5.65	75	24905	4.678	ug/l #	52
38) Carbon Tetrachloride	5.65	117	37821	6.449	ug/l #	15
43) Isopropyl Acetate	6.44	43	78980	8.265	ug/l	100
48) Methyl methacrylate	7.68	41	4765	1.007	ug/l #	16
49) 1,4-Dioxane	7.77	88	242	1.923	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	70685	11.301	ug/l #	52
52) Toluene	8.79	92	2629	0.249	ug/l	84
54) cis-1,3-Dichloropropene	8.61	75	34936	5.588	ug/l #	63
59) 2-Hexanone	9.54	43	84004	17.417	ug/l #	50
68) m/p-Xylenes	10.36	106	3973	0.608	ug/l	98
71) Bromoform	10.86	173	199	3.342	ug/l #	28
74) N-amyl acetate	10.82	43	3759	0.515	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	117583	23.426	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	117583	62.253	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	3110	0.215	ug/l	92
93) 1,2,4-Trichlorobenzene	13.65	180	1356	0.206	ug/l	91

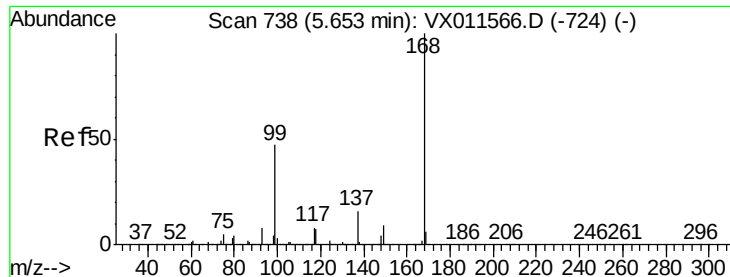
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

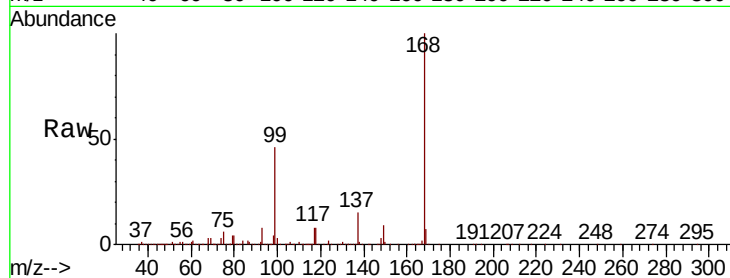
REACTOR-4-B-(3.4)

Tgt Ion:168 Resp: 458069

Ion Ratio Lower Upper

168 100

99 46.0 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

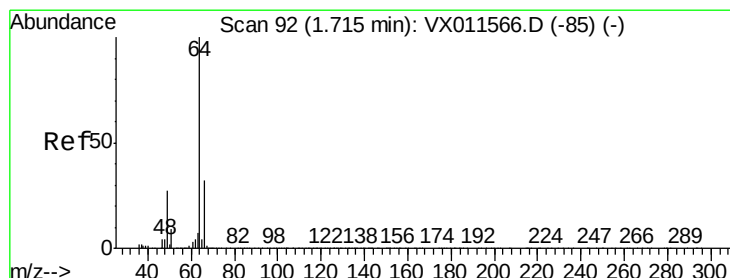
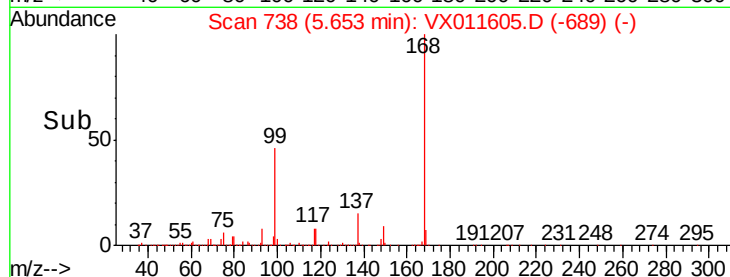
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.401 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX011605.D

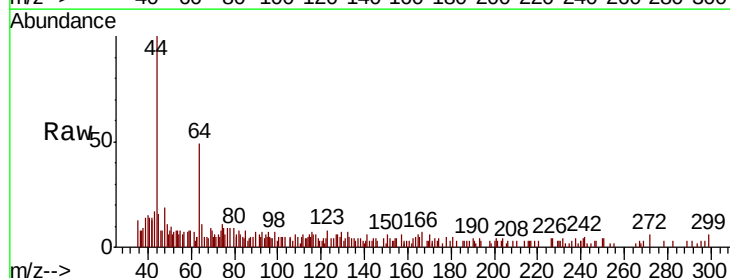
Acq: 17 Aug 2019 01:47

Tgt Ion: 64 Resp: 801

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

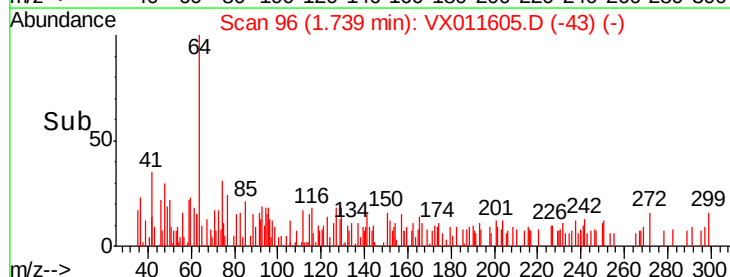
1.74

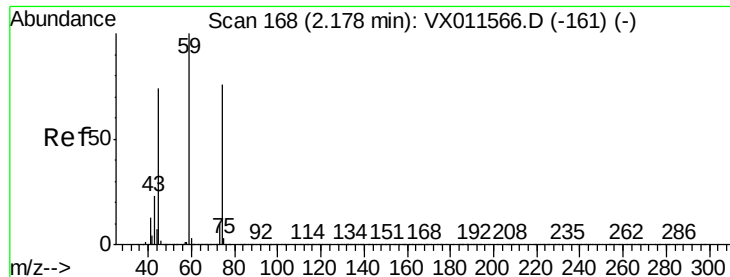
1000

500

0

Time-->





#8

Diethyl Ether

Concen: 0.326 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

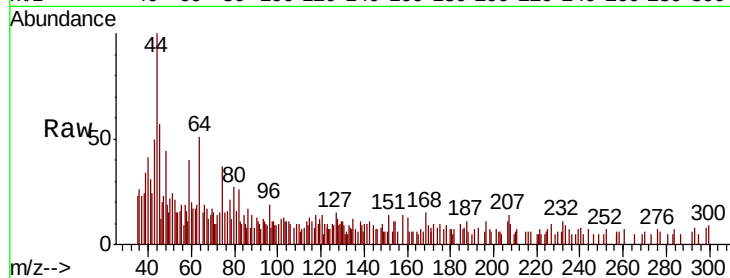
REACTOR-4-B-(3.4)

Tgt Ion: 74 Resp: 654

Ion Ratio Lower Upper

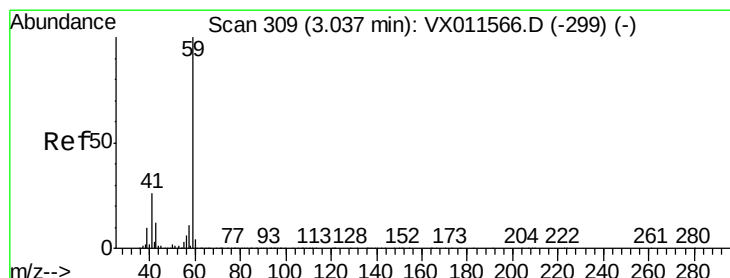
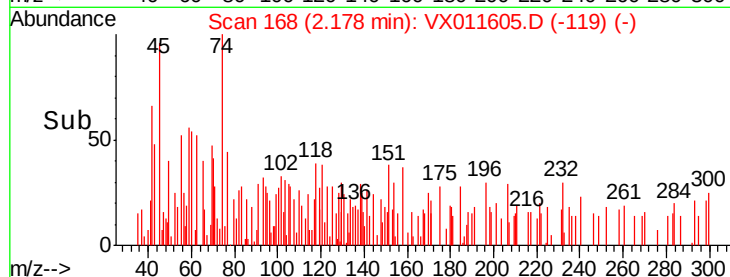
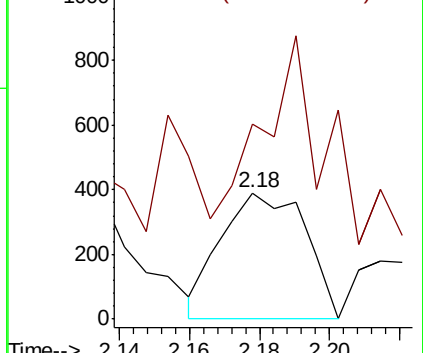
74 100

45 120.2 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 7.088 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011605.D

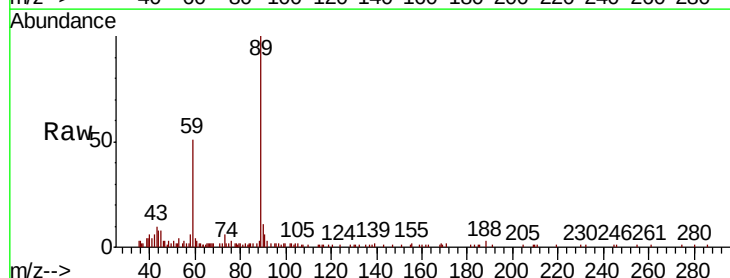
Acq: 17 Aug 2019 01:47

Tgt Ion: 59 Resp: 7387

Ion Ratio Lower Upper

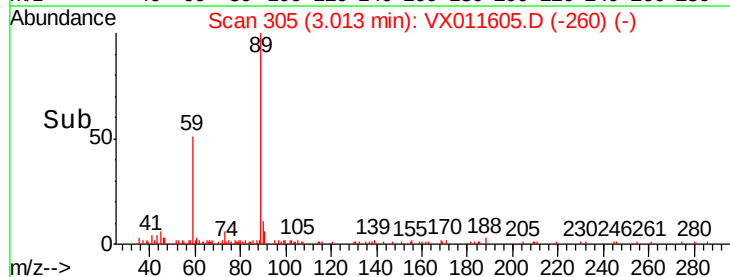
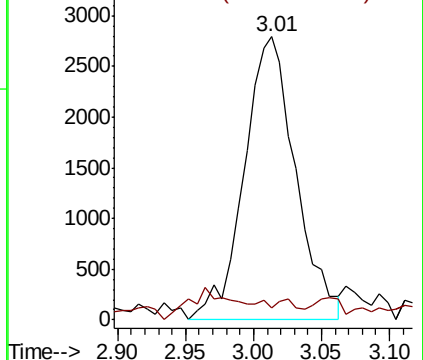
59 100

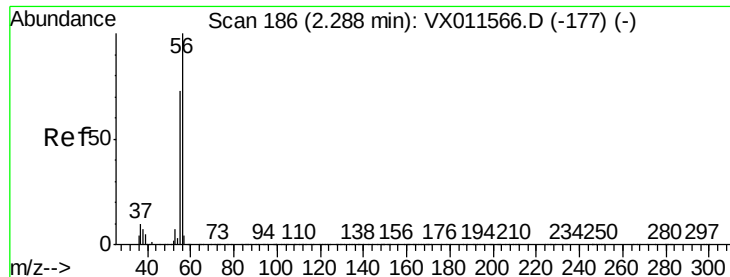
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 14.504 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

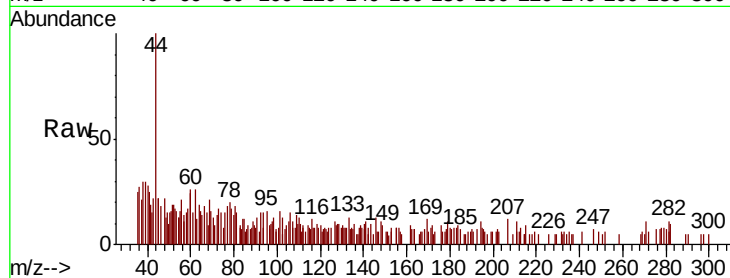
REACTOR-4-B-(3.4)

Tgt Ion: 56 Resp: 782

Ion Ratio Lower Upper

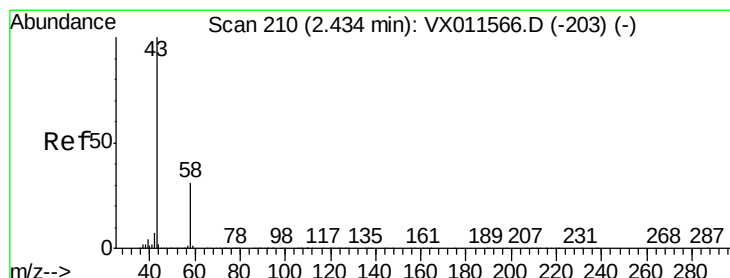
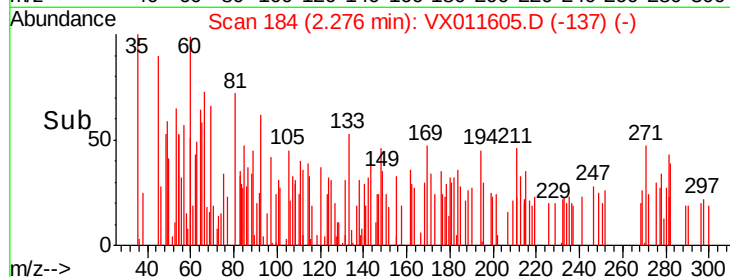
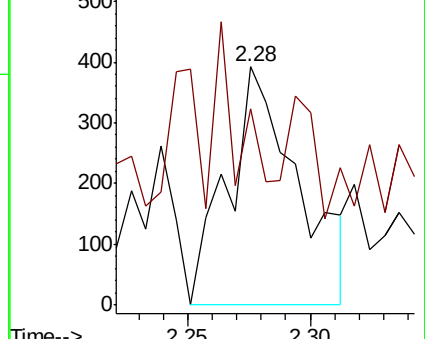
56 100

55 17.6 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.531 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011605.D

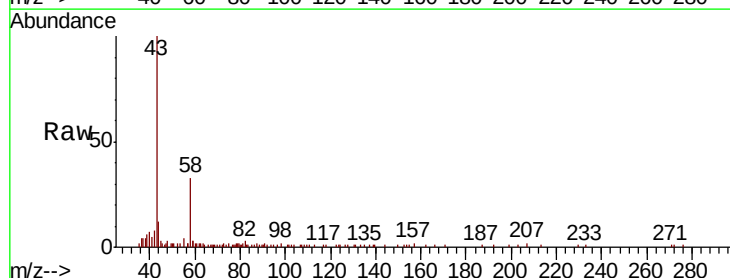
Acq: 17 Aug 2019 01:47

Tgt Ion: 43 Resp: 11815

Ion Ratio Lower Upper

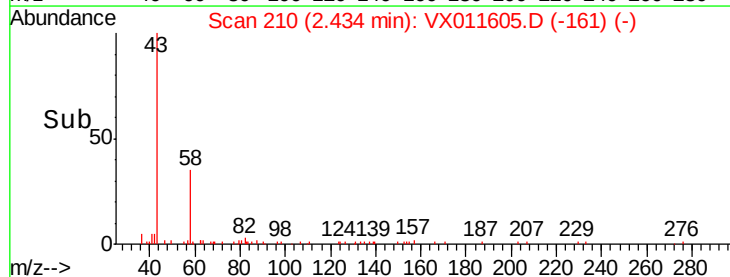
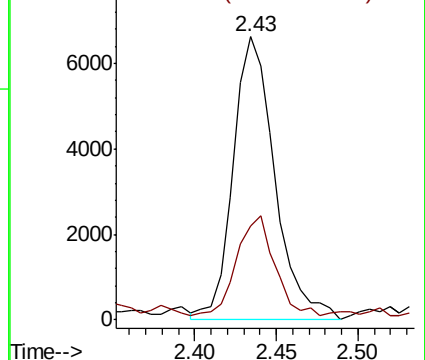
43 100

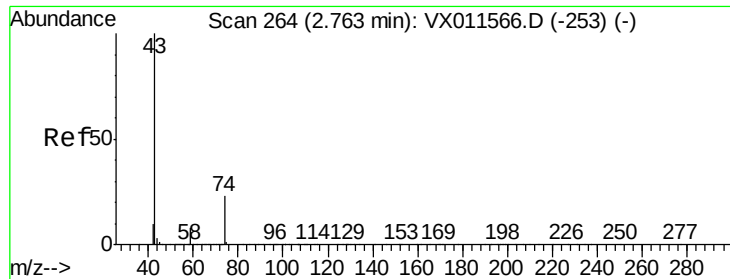
58 31.9 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

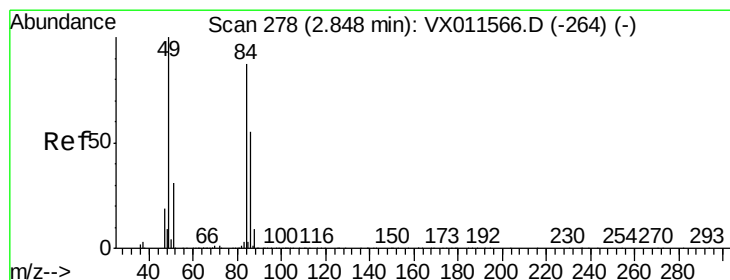
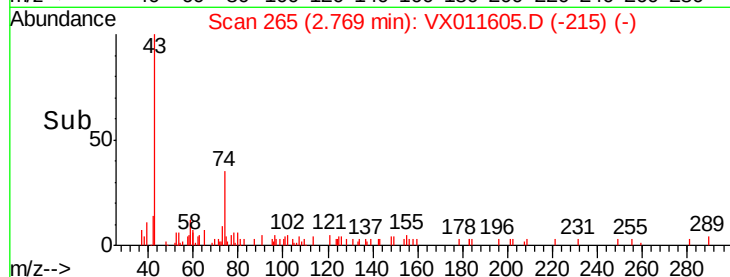
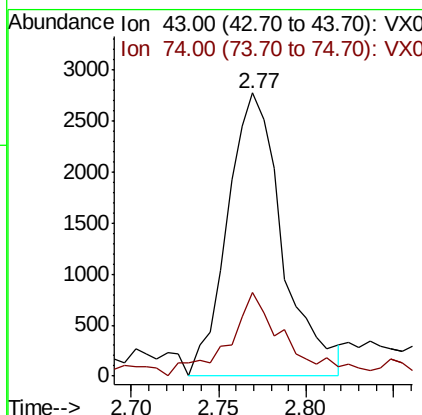
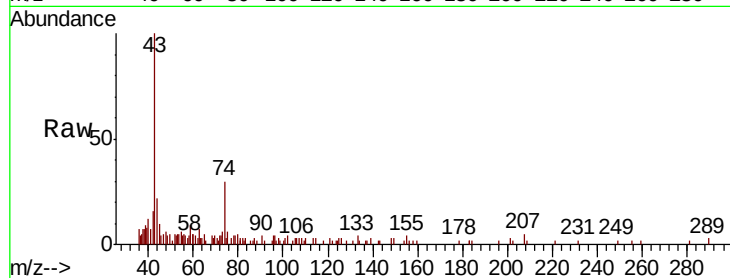




#18
Methyl Acetate
Concen: 0.917 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

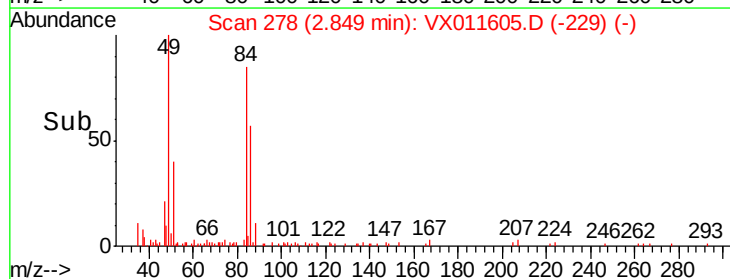
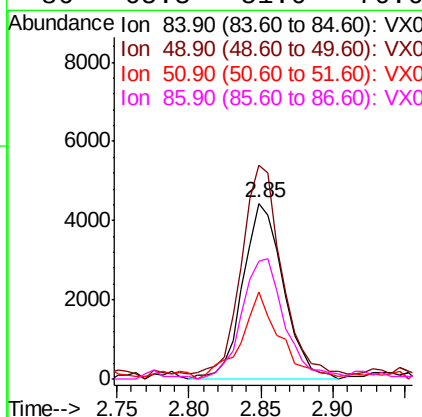
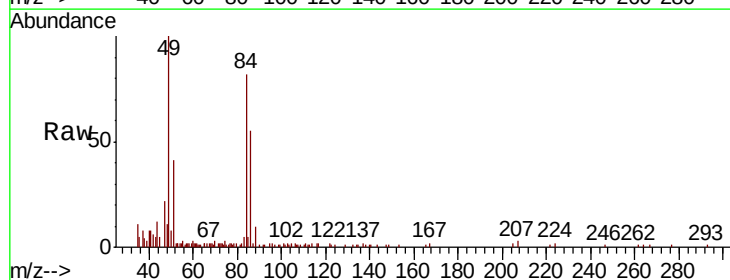
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-B-(3.4)

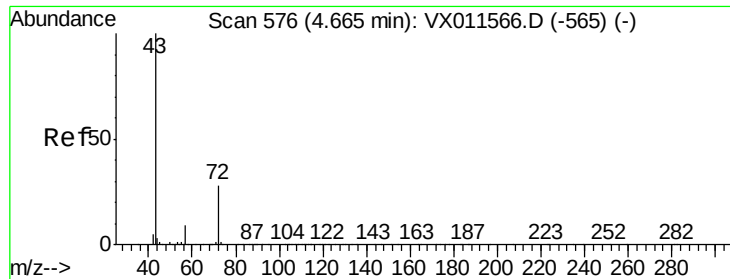
Tgt Ion: 43 Resp: 6075
Ion Ratio Lower Upper
43 100
74 30.4 19.7 29.5#



#20
Methylene Chloride
Concen: 1.933 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

Tgt Ion: 84 Resp: 8671
Ion Ratio Lower Upper
84 100
49 119.2 92.4 138.6
51 47.6 28.5 42.7#
86 65.3 51.0 76.6





#25

2-Butanone

Concen: 1.131 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.03 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

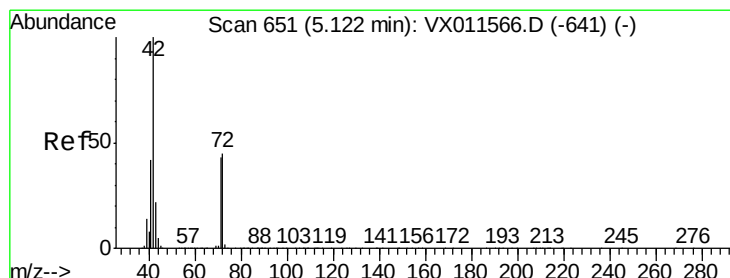
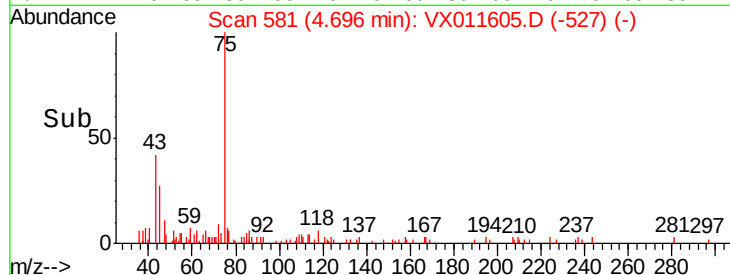
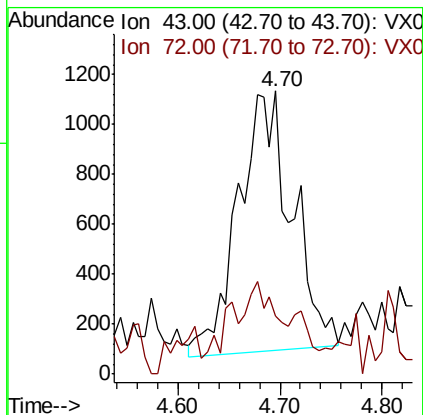
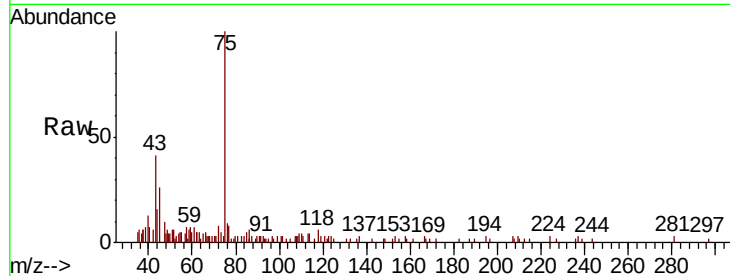
REACTOR-4-B-(3.4)

Tgt Ion: 43 Resp: 3791

Ion Ratio Lower Upper

43 100

72 10.5 22.2 33.4#



#29

Tetrahydrofuran

Concen: 0.339 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

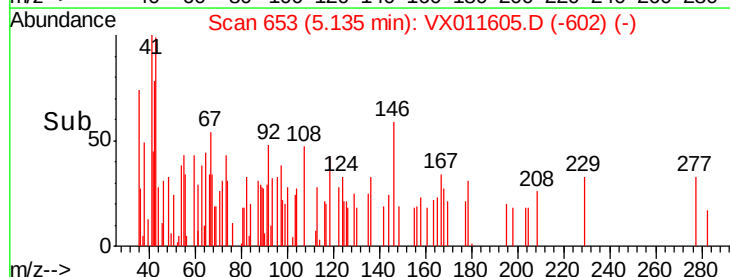
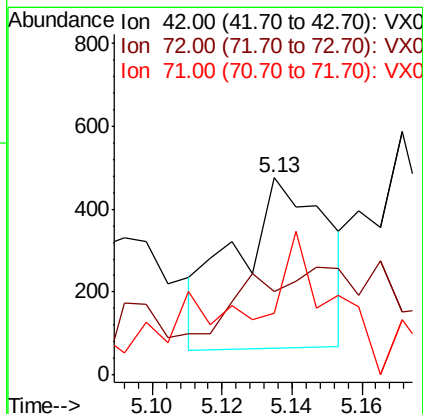
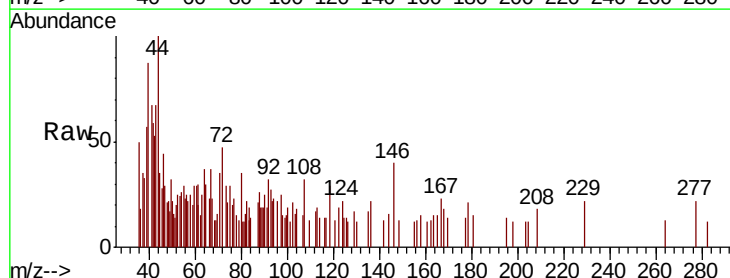
Tgt Ion: 42 Resp: 745

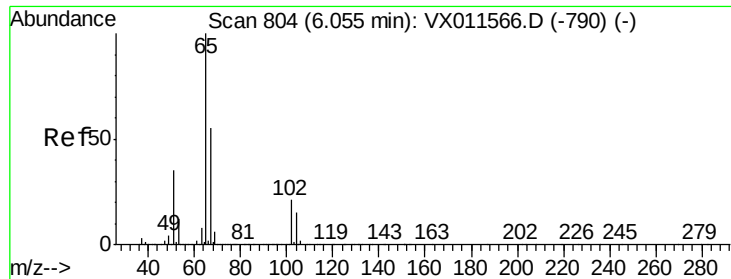
Ion Ratio Lower Upper

42 100

72 0.0 36.1 54.1#

71 49.8 33.8 50.8

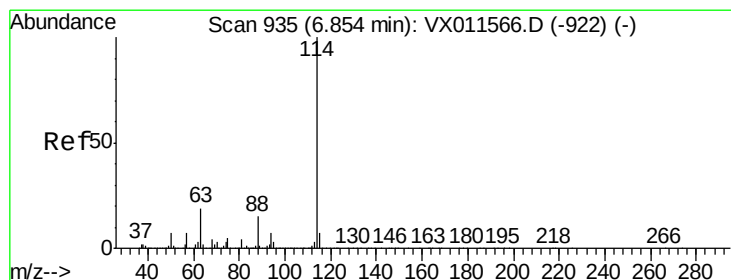
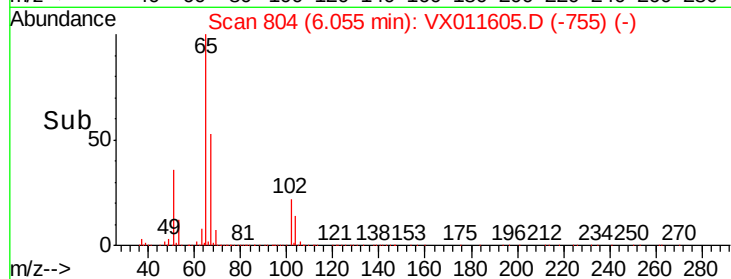
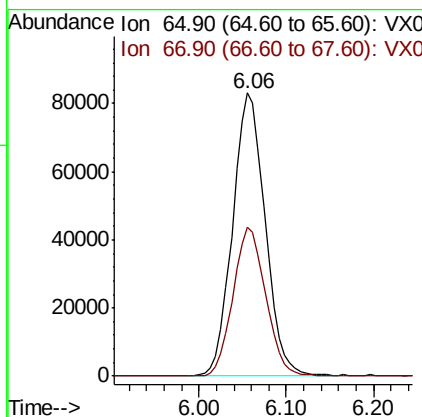
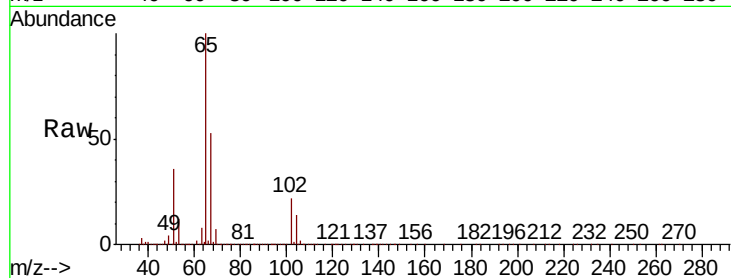




#33
 1,2-Dichloroethane-d4
 Concen: 50.421 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011605.D
 Acq: 17 Aug 2019 01:47

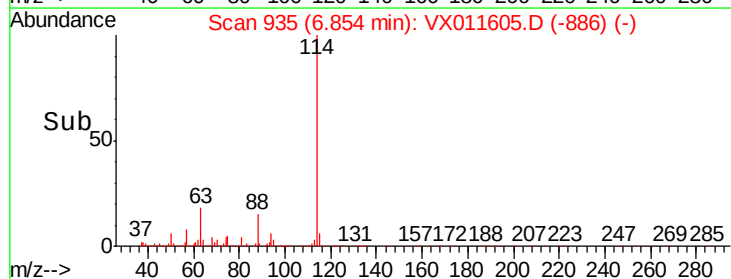
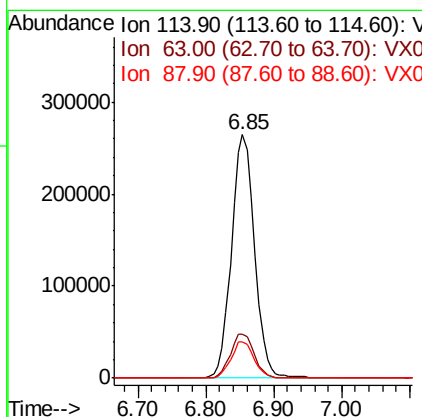
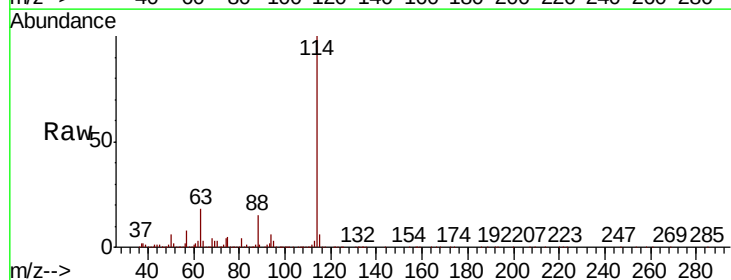
Instrument :
 MSVOA_X
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 REACTOR-4-B-(3.4)

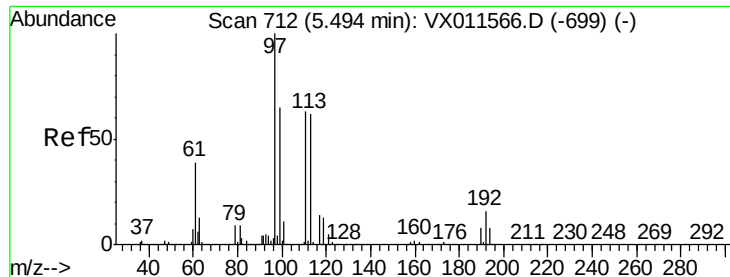
Tgt Ion: 65 Resp: 214187
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011605.D
 Acq: 17 Aug 2019 01:47

Tgt Ion: 114 Resp: 622630
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 37.8
 88 14.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 45.577 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-B-(3.4)

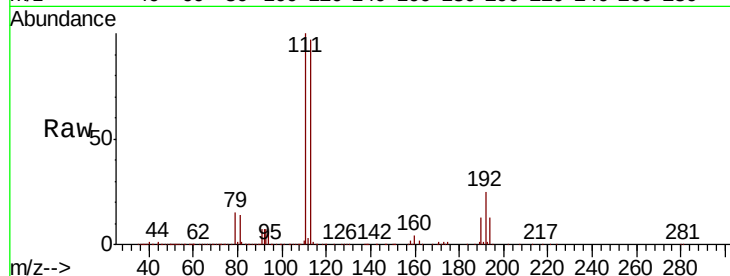
Tgt Ion:113 Resp: 185607

Ion Ratio Lower Upper

113 100

111 102.8 81.1 121.7

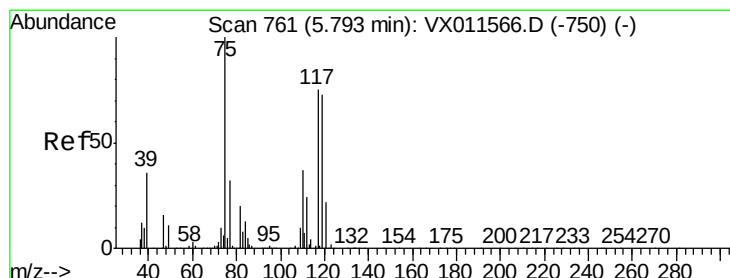
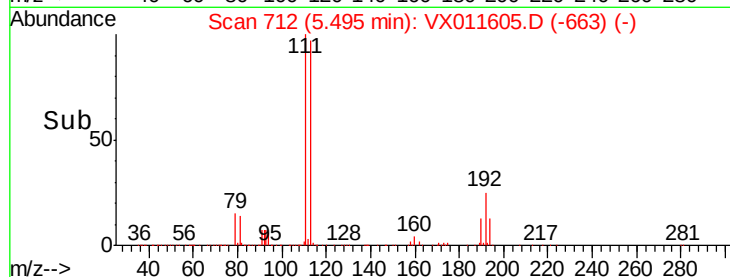
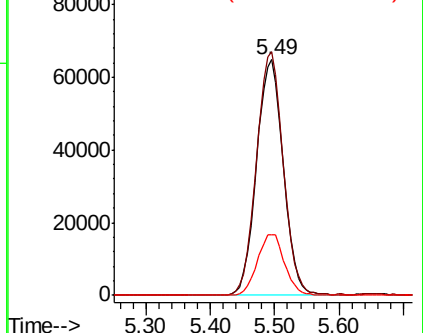
192 26.3 20.8 31.2



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: 4.678 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

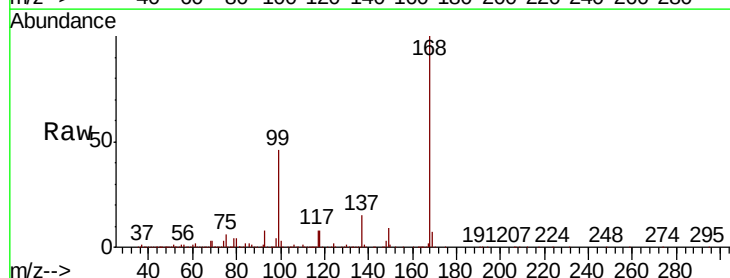
Tgt Ion: 75 Resp: 24905

Ion Ratio Lower Upper

75 100

110 12.7 19.4 58.1#

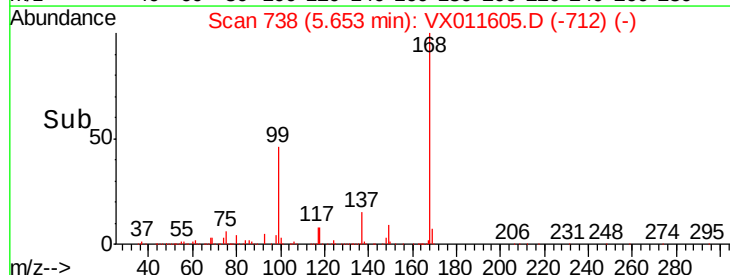
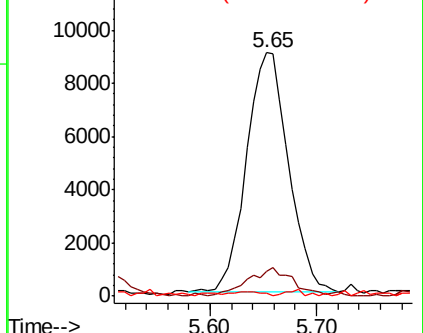
77 1.2 25.1 37.7#

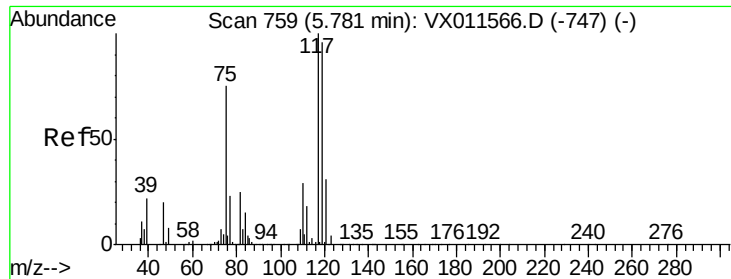


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.449 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-B-(3.4)

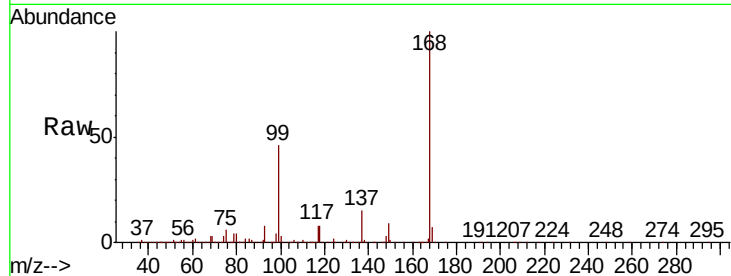
Tgt Ion:117 Resp: 37821

Ion Ratio Lower Upper

117 100

119 3.5 76.9 115.3#

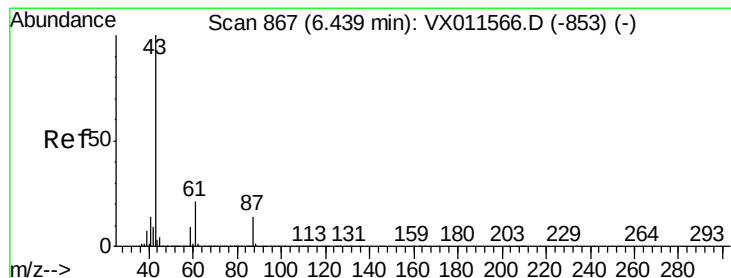
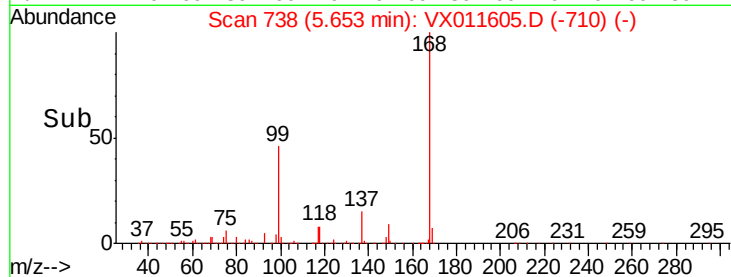
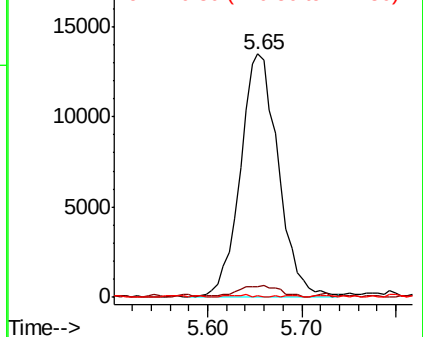
121 0.7 24.8 37.2#



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: 8.265 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

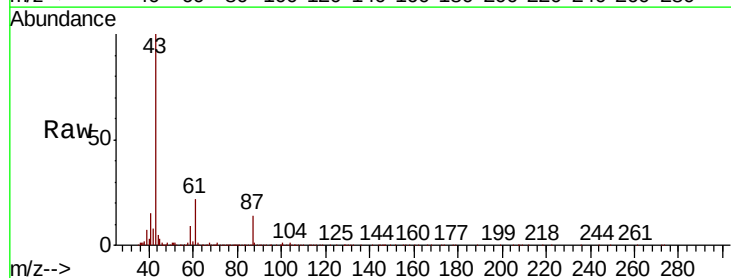
Tgt Ion: 43 Resp: 78980

Ion Ratio Lower Upper

43 100

61 20.8 16.6 24.8

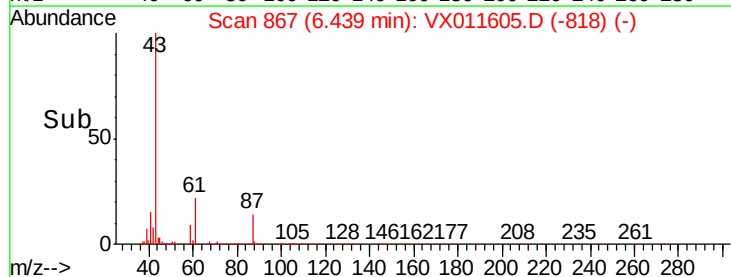
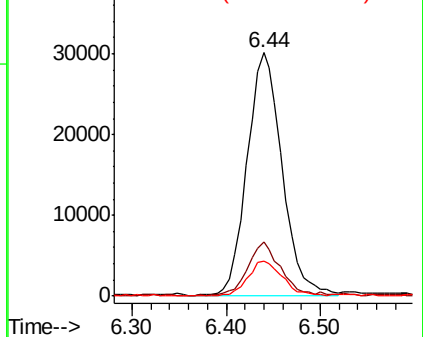
87 14.5 11.4 17.2

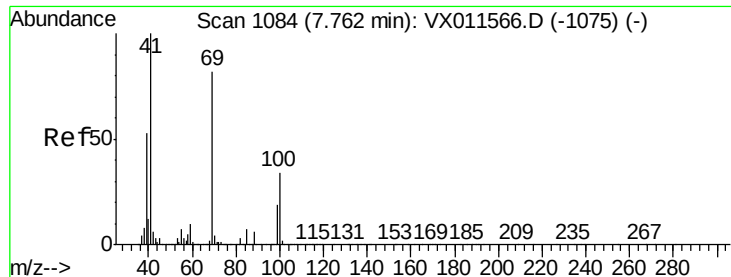


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

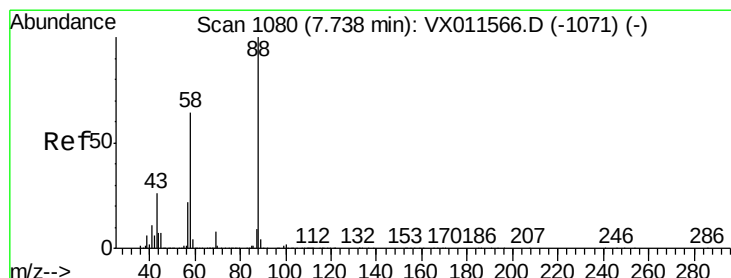
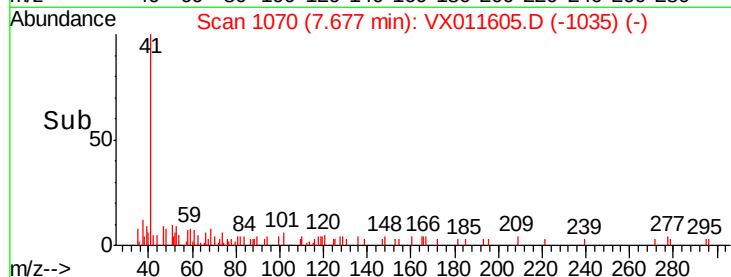
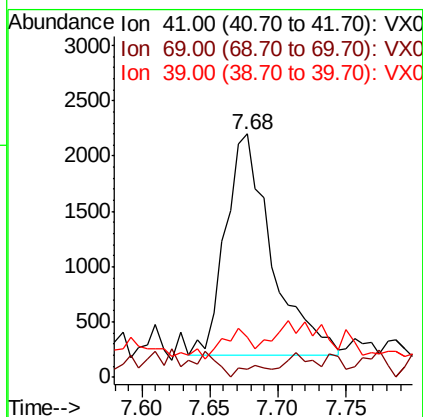
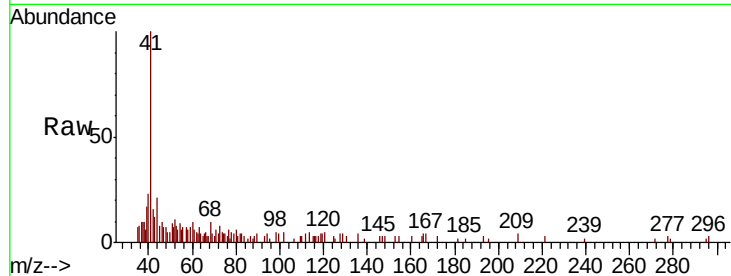




#48
Methyl methacrylate
Concen: 1.007 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

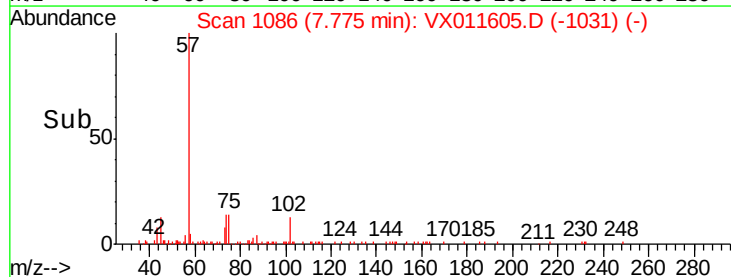
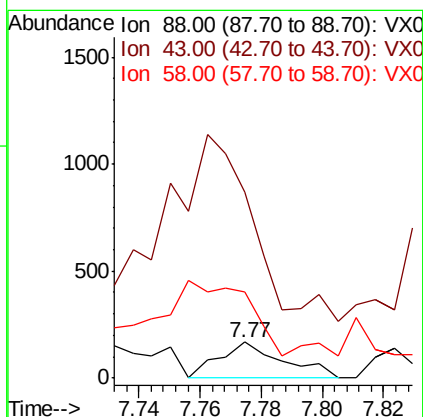
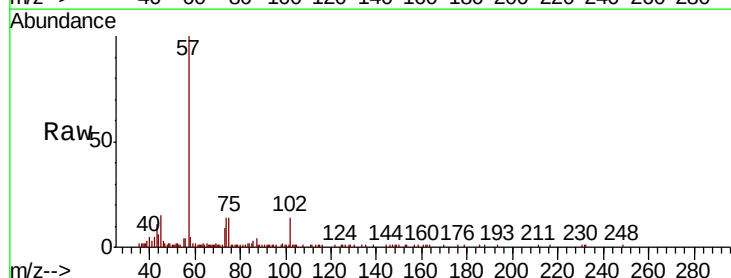
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-B-(3.4)

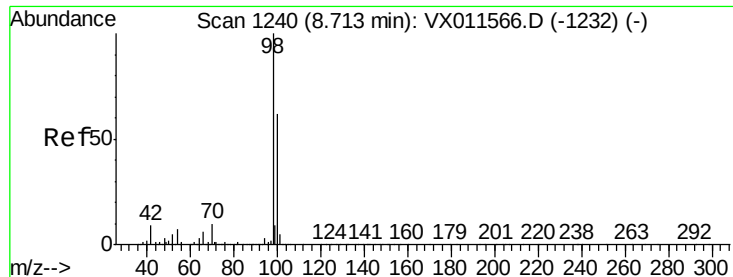
Tgt Ion	Ratio	Lower	Upper
41	100		
69	3.3	67.9	101.9#
39	0.0	41.6	62.4#



#49
1,4-Dioxane
Concen: 1.923 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.04 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.4	35.0#
58	228.5	54.3	81.5#





#50

Toluene-d8

Concen: 56.176 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

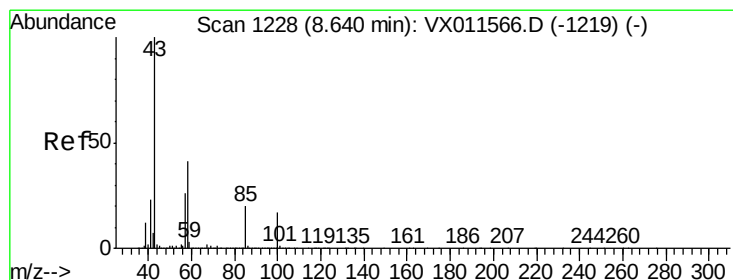
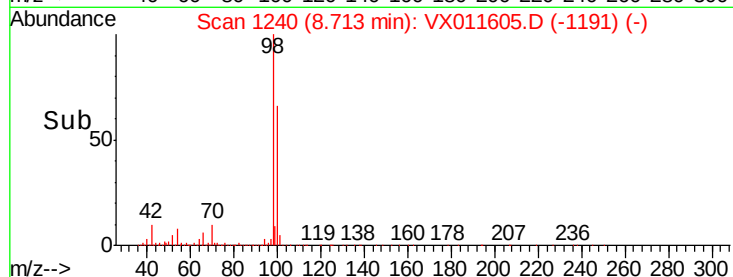
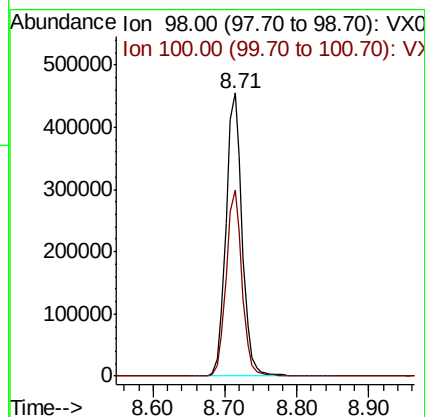
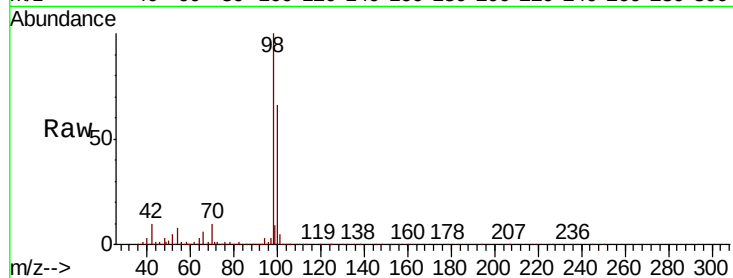
REACTOR-4-B-(3.4)

Tgt Ion: 98 Resp: 712821

Ion Ratio Lower Upper

98 100

100 64.9 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 11.301 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011605.D

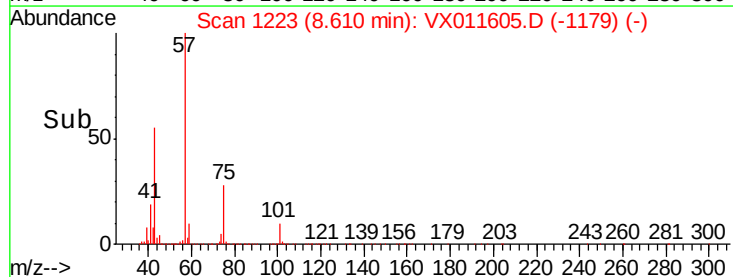
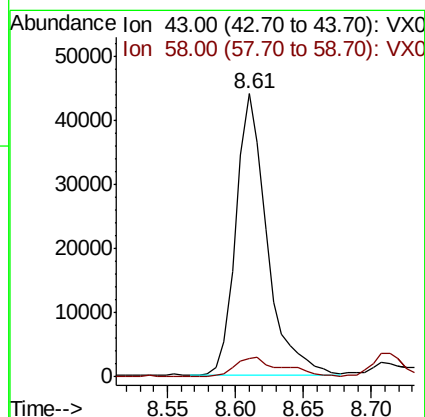
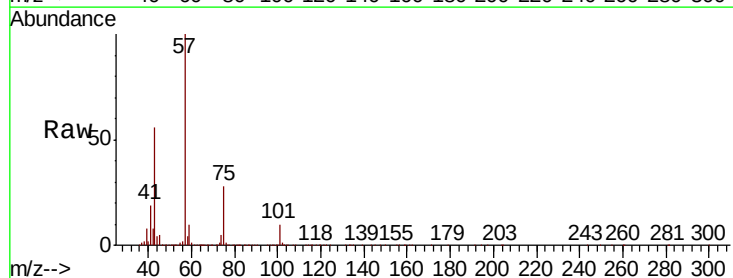
Acq: 17 Aug 2019 01:47

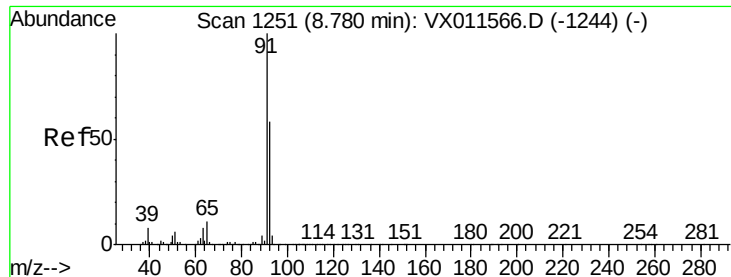
Tgt Ion: 43 Resp: 70685

Ion Ratio Lower Upper

43 100

58 9.9 31.8 47.6#





#52

Toluene

Concen: 0.249 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

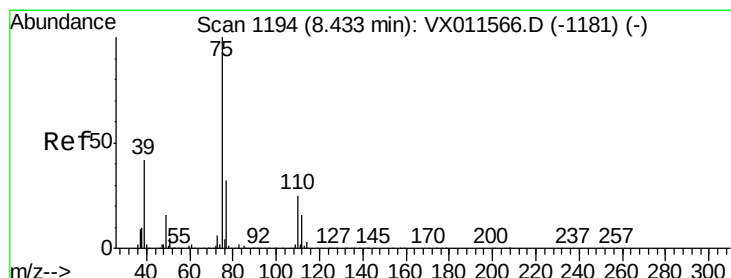
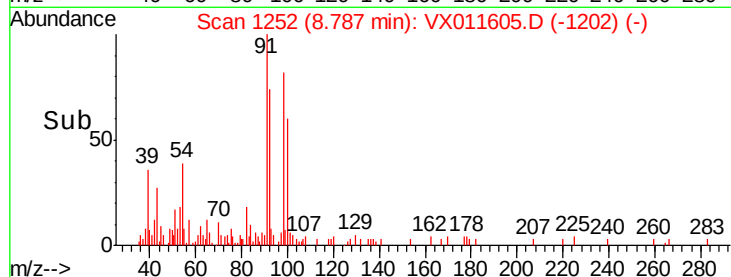
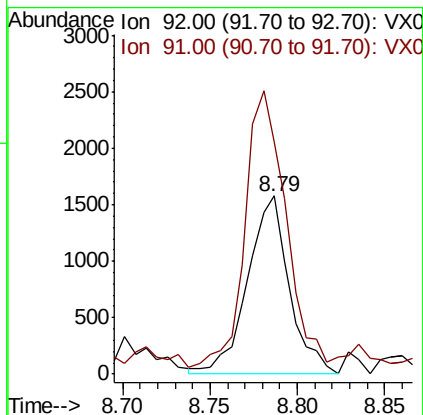
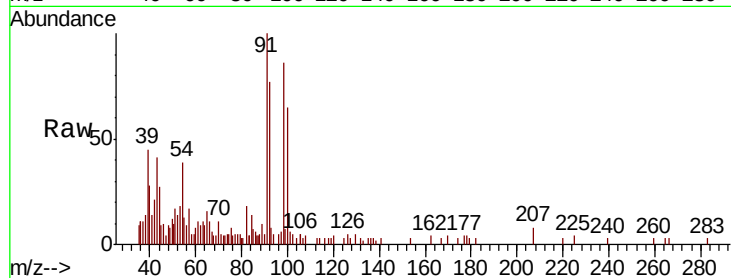
REACTOR-4-B-(3.4)

Tgt Ion: 92 Resp: 2629

Ion Ratio Lower Upper

92 100

91 150.9 138.0 207.0



#54

cis-1,3-Dichloropropene

Concen: 5.588 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

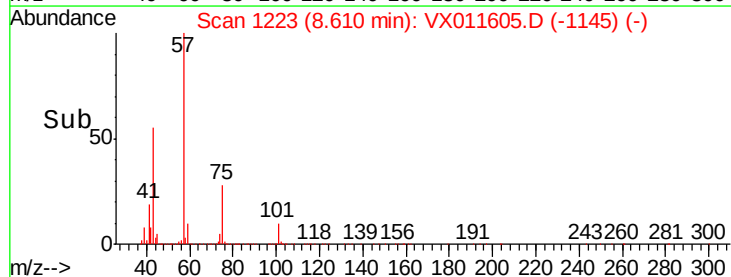
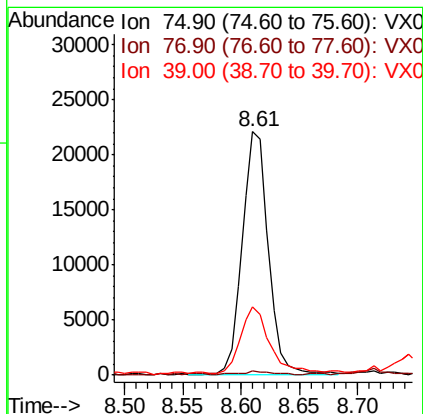
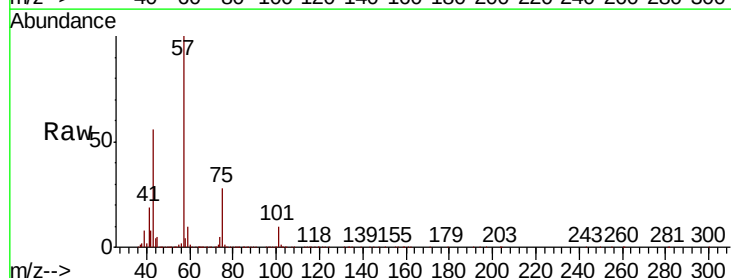
Tgt Ion: 75 Resp: 34936

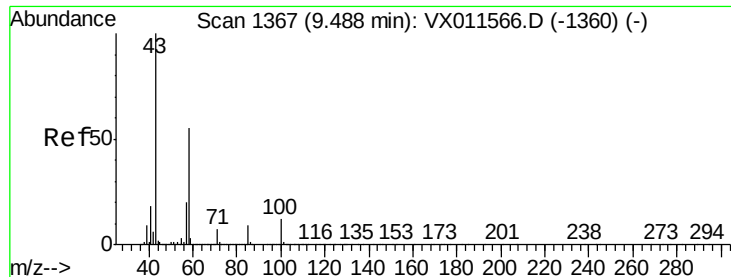
Ion Ratio Lower Upper

75 100

77 1.2 25.5 38.3#

39 27.0 33.6 50.4#

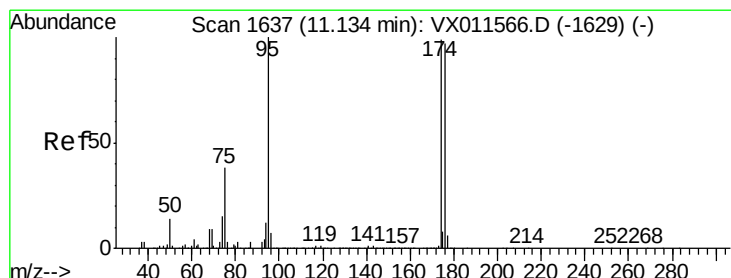
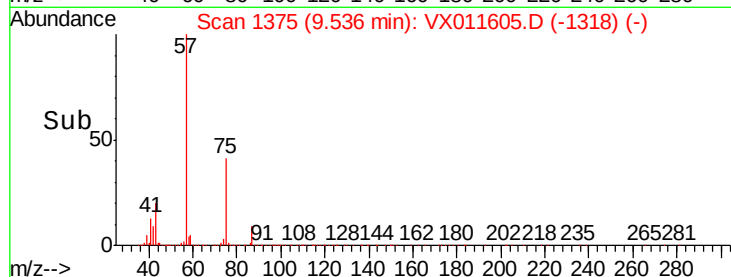
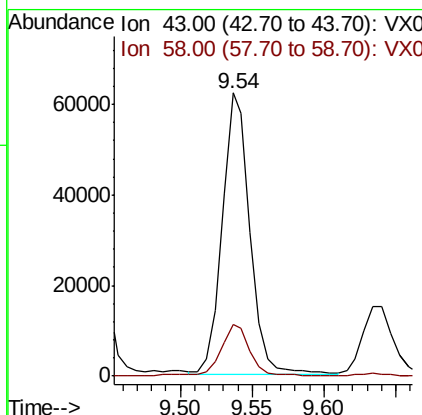
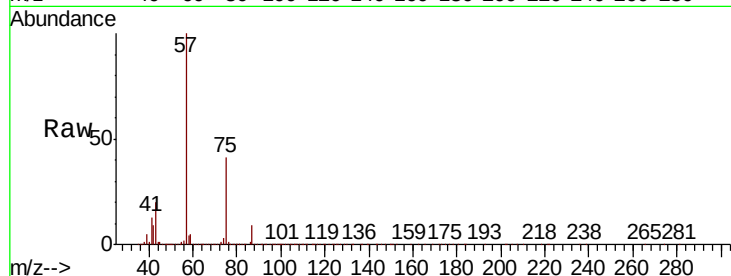




#59
2-Hexanone
Concen: 17.417 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

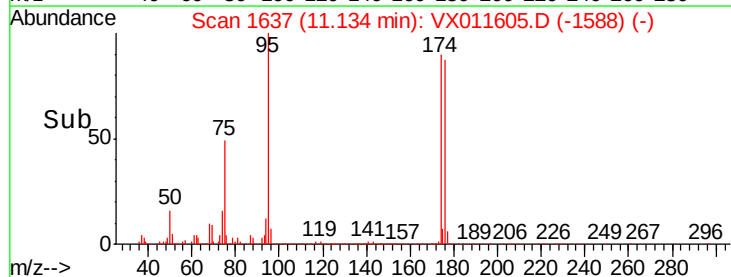
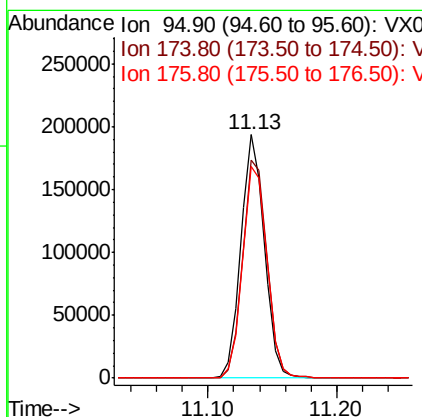
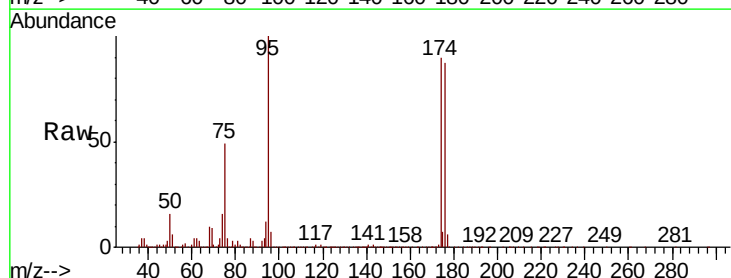
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-B-(3.4)

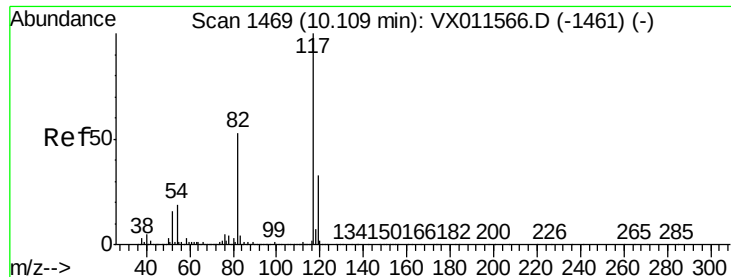
Tgt Ion: 43 Resp: 84004
Ion Ratio Lower Upper
43 100
58 18.6 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 45.370 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

Tgt Ion: 95 Resp: 242995
Ion Ratio Lower Upper
95 100
174 93.3 0.0 200.6
176 91.0 0.0 196.6

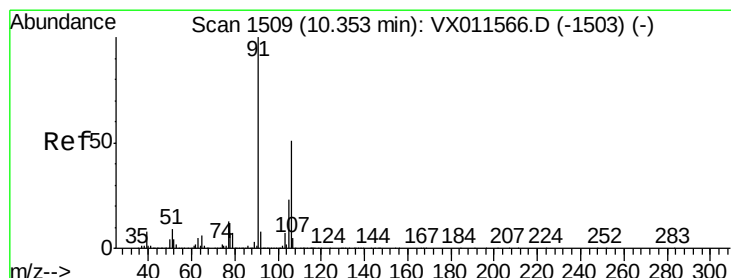
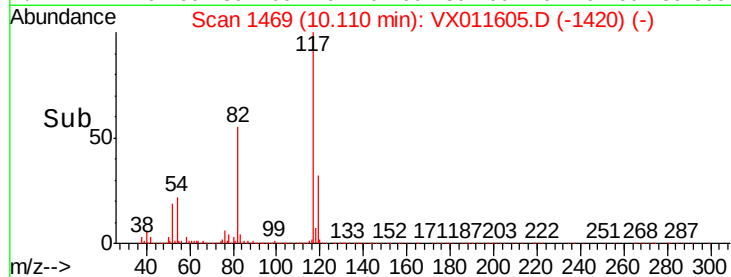
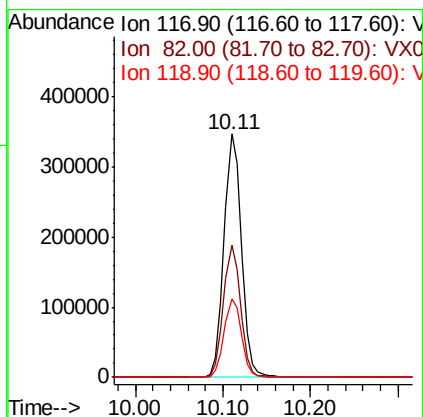
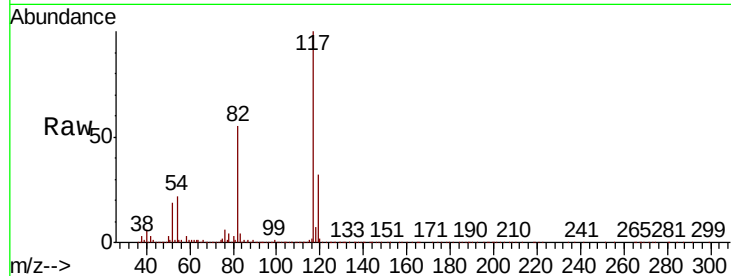




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

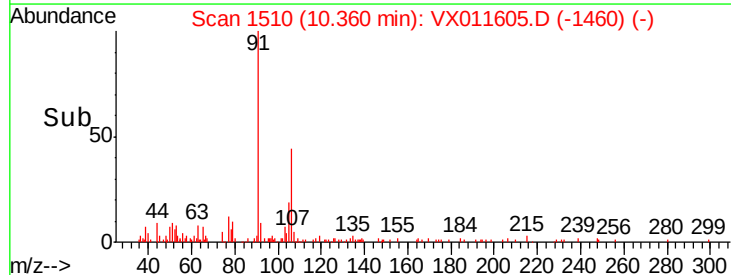
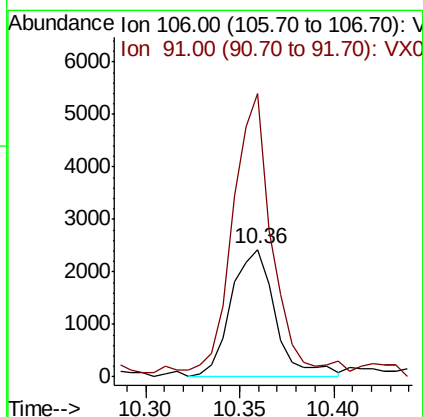
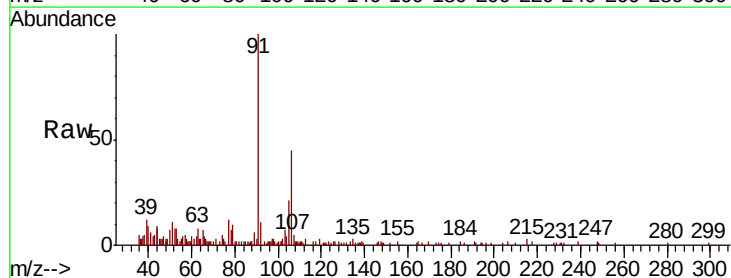
Instrument :
MSVOA_X
ClientSampleId :
REACTOR-4-B-(3.4)

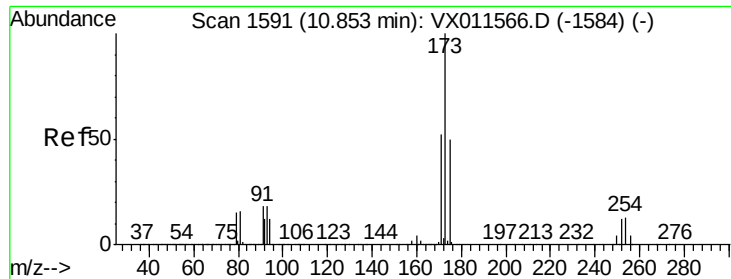
Tgt Ion:117 Resp: 478401
Ion Ratio Lower Upper
117 100
82 54.5 42.0 63.0
119 32.5 26.5 39.7



#68
m/p-Xylenes
Concen: 0.608 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.01 min
Lab File: VX011605.D
Acq: 17 Aug 2019 01:47

Tgt Ion:106 Resp: 3973
Ion Ratio Lower Upper
106 100
91 198.5 156.0 234.0





#71

Bromoform

Concen: 3.342 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-B-(3.4)

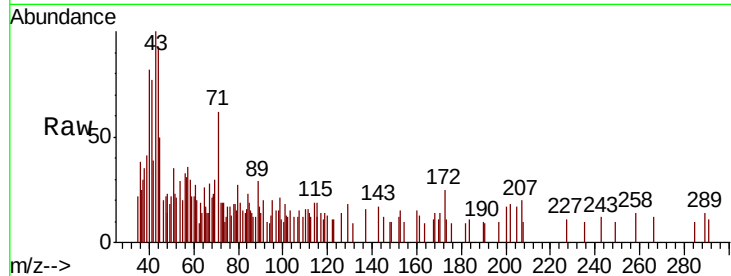
Tgt Ion:173 Resp: 199

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

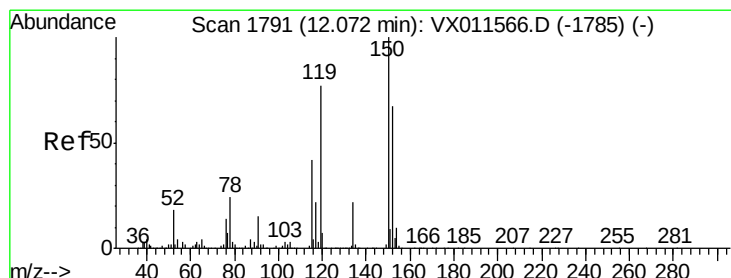
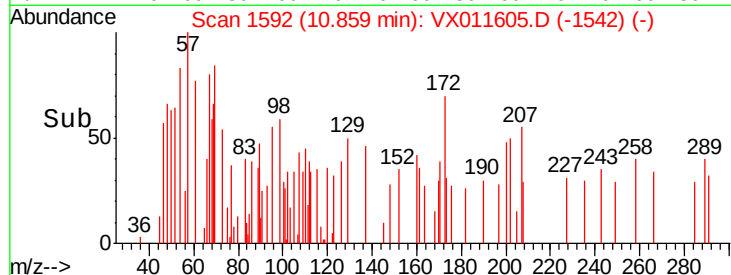
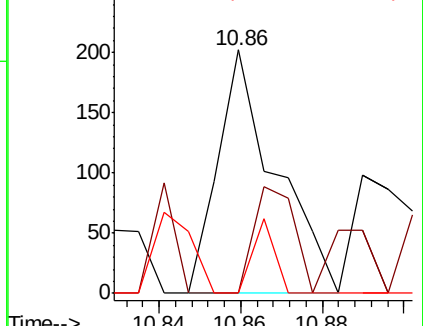
254 11.6 0.1 0.1#



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: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

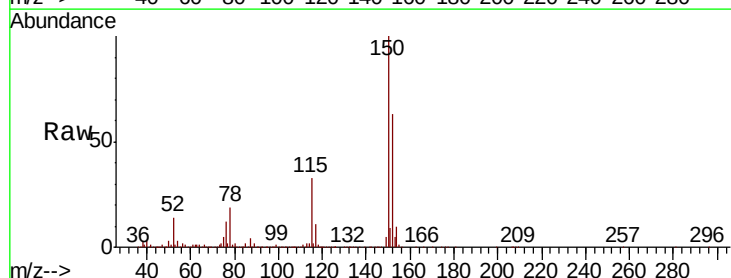
Tgt Ion:152 Resp: 264697

Ion Ratio Lower Upper

152 100

115 53.4 37.3 111.9

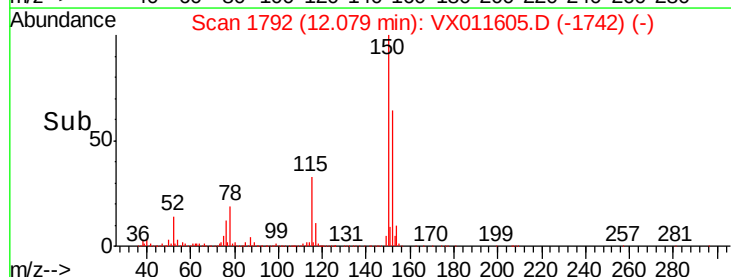
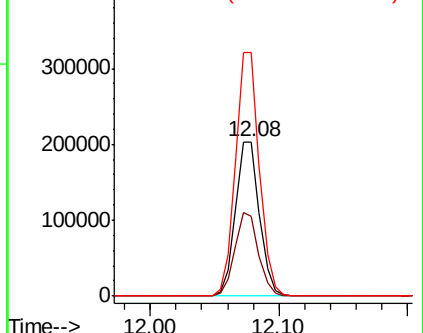
150 156.5 0.0 346.2

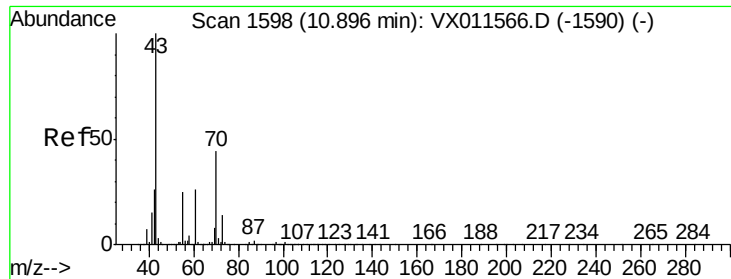


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.515 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-B-(3.4)

Tgt Ion: 43 Resp: 3759

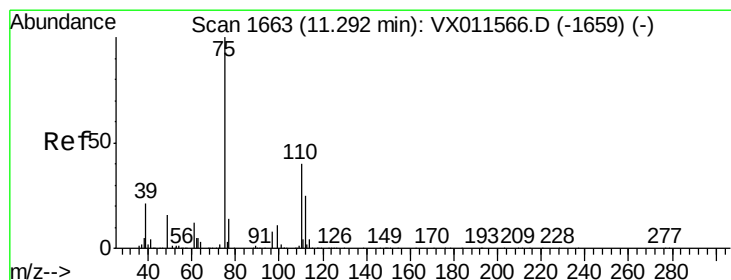
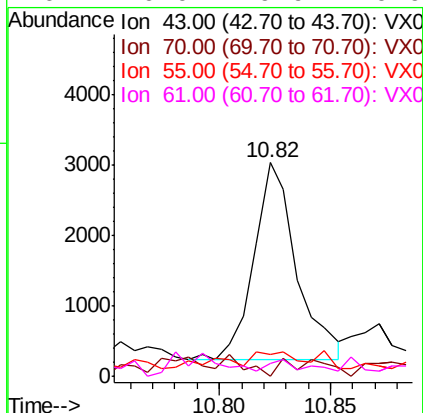
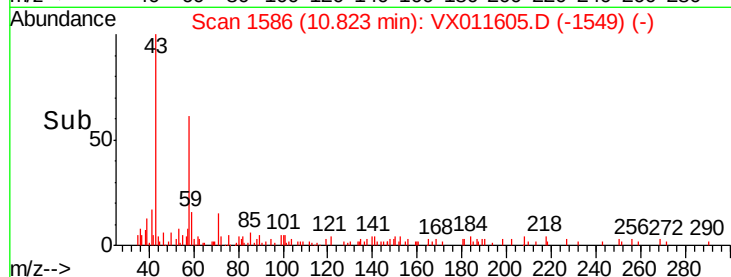
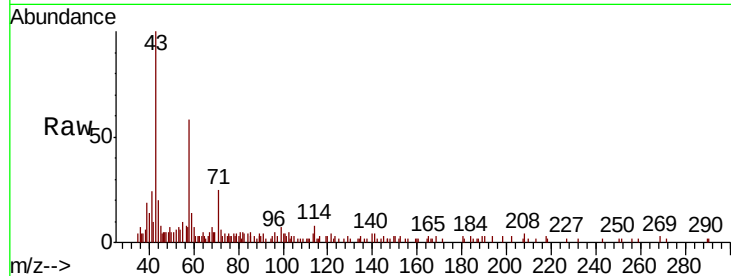
Ion Ratio Lower Upper

43 100

70 8.6 34.7 52.1#

55 0.0 19.6 29.4#

61 0.0 19.9 29.9#



#76

1,2,3-Trichloropropane

Concen: 23.426 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011605.D

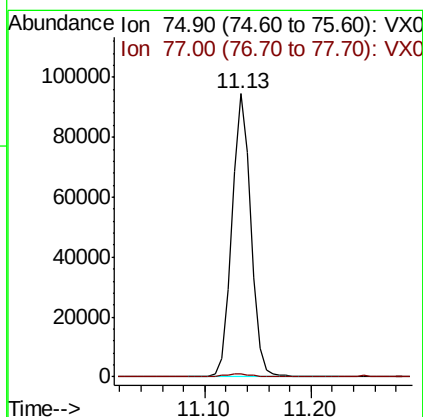
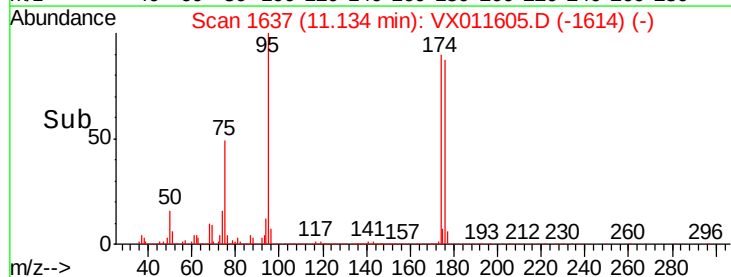
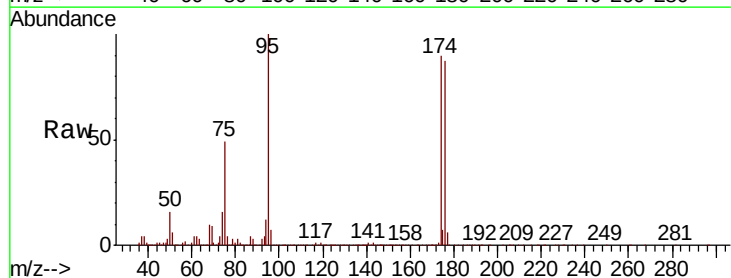
Acq: 17 Aug 2019 01:47

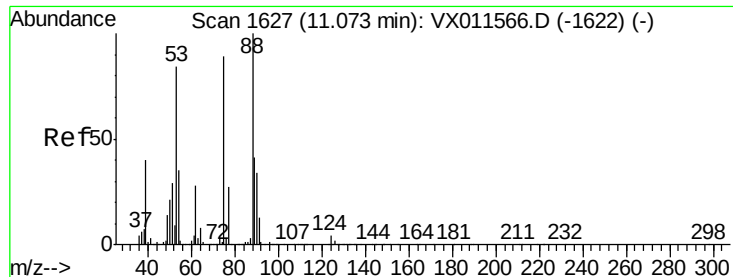
Tgt Ion: 75 Resp: 117583

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.253 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011605.D

Acq: 17 Aug 2019 01:47

Instrument :

MSVOA_X

ClientSampleId :

REACTOR-4-B-(3.4)

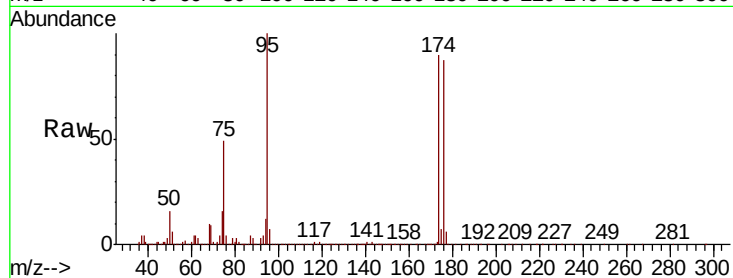
Tgt Ion: 75 Resp: 117583

Ion Ratio Lower Upper

75 100

53 0.2 77.4 116.0#

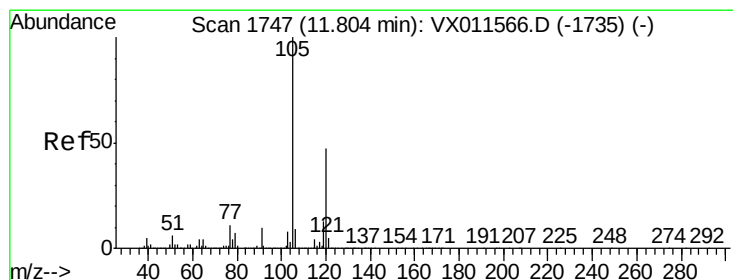
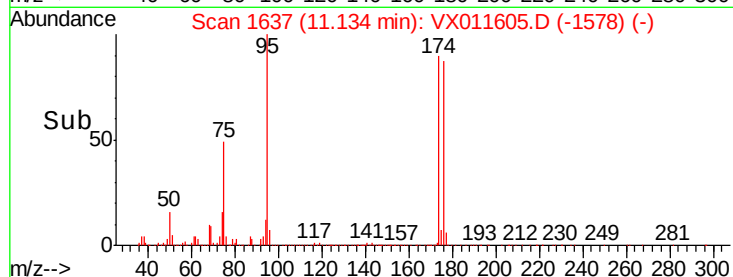
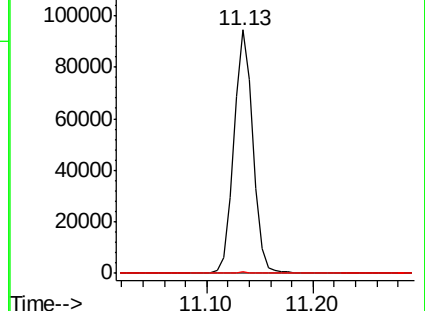
89 0.5 37.3 55.9#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.215 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX011605.D

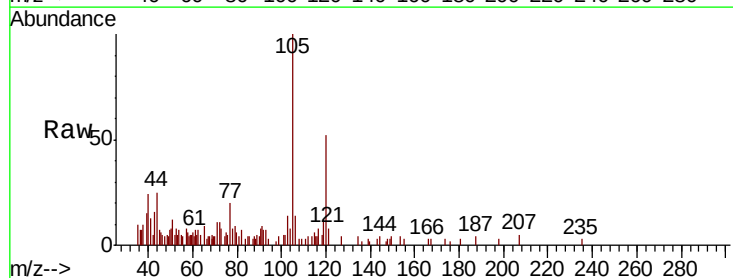
Acq: 17 Aug 2019 01:47

Tgt Ion: 105 Resp: 3110

Ion Ratio Lower Upper

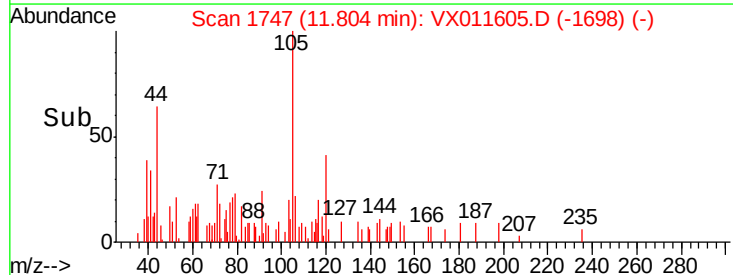
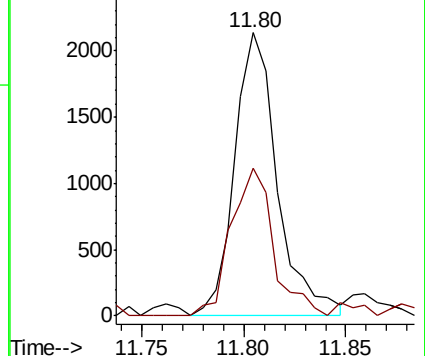
105 100

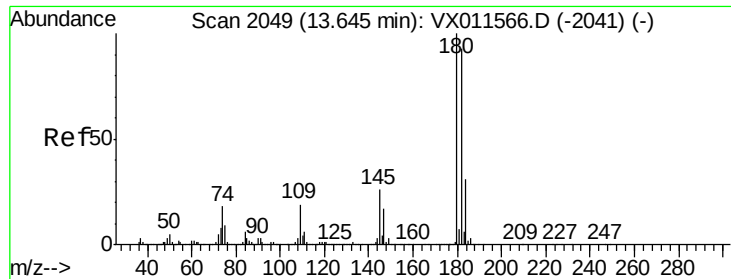
120 51.9 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#93
 1,2,4-Trichlorobenzene
 Concen: 0.206 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX011605.D
 Acq: 17 Aug 2019 01:47

Instrument :
 MSVOA_X
 ClientSampleId :
 REACTOR-4-B-(3.4)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.4	47.3	142.0
145	29.7	13.6	40.8

