

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006773.D
 Acq On : 22 Dec 2018 15:43
 Operator : JC/MD
 Sample : J6533-13 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-3

Quant Time: Dec 24 04:25:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	641532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	975979	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	889735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	424170	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	331842	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
35) Dibromofluoromethane	5.51	113	294418	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
50) Toluene-d8	8.71	98	1143703	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
62) 4-Bromofluorobenzene	11.13	95	404873	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	

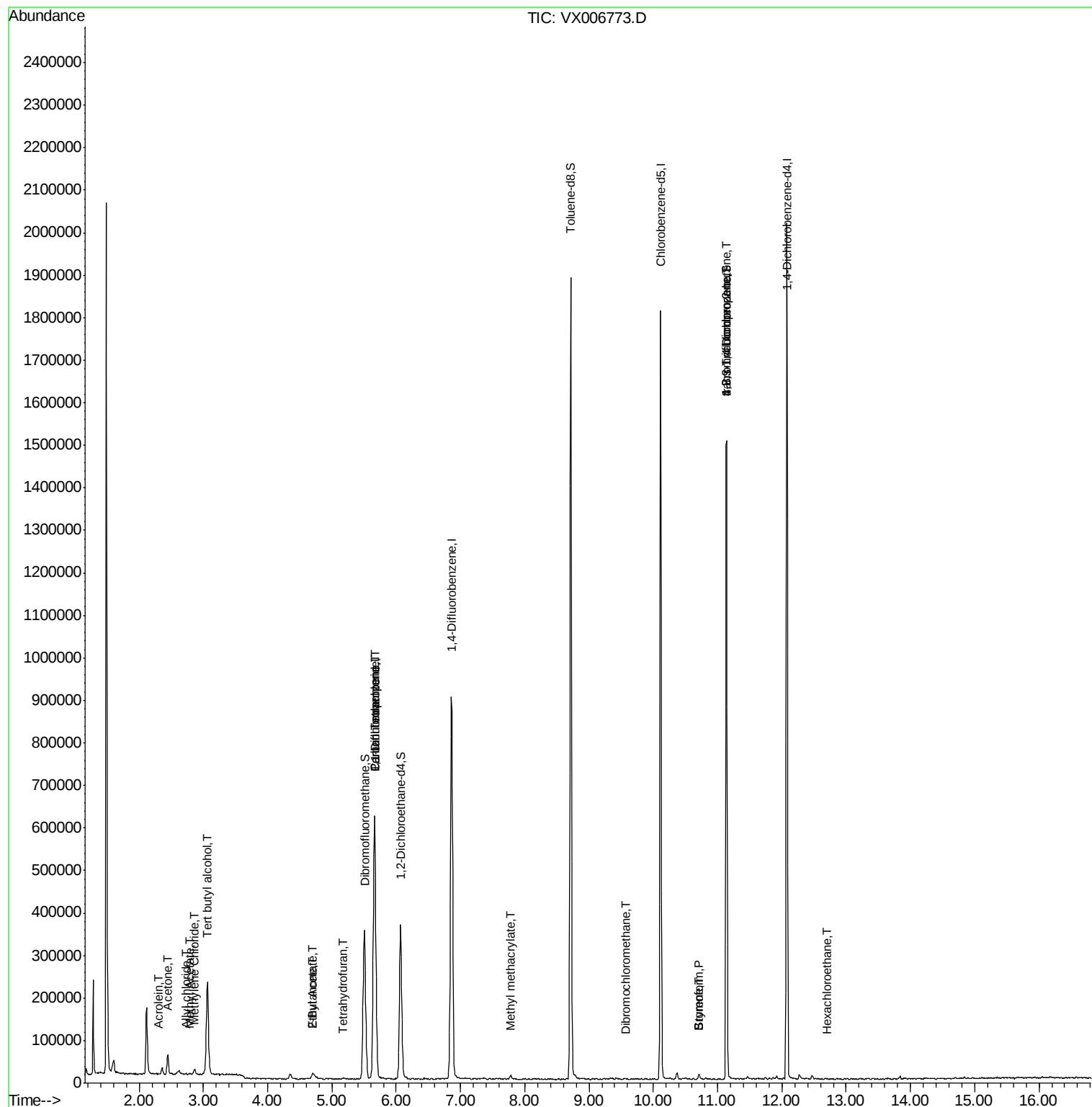
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	905	Below Cal	#	47
11) Tert butyl alcohol	3.06	59	276452	179.159	ug/l	100
13) Acrolein	2.29	56	1070	1.028	ug/l	88
14) Allyl chloride	2.73	41	2399	0.249	ug/l #	47
16) Acetone	2.45	43	50832	16.002	ug/l	97
18) Methyl Acetate	2.78	43	2999	0.321	ug/l #	47
20) Methylene Chloride	2.86	84	5827	0.887	ug/l #	85
25) 2-Butanone	4.70	43	25667	5.744	ug/l	100
28) Bromochloromethane	5.01	49	373	Below Cal	#	15
29) Tetrahydrofuran	5.16	42	787	0.267	ug/l #	69
36) 1,1-Dichloropropene	5.66	75	41472	5.131	ug/l #	48
37) Ethyl Acetate	4.70	43	25730	3.058	ug/l #	70
38) Carbon Tetrachloride	5.66	117	57905	7.371	ug/l #	14
48) Methyl methacrylate	7.78	41	5224	0.802	ug/l	87
49) 1,4-Dioxane	7.76	88	141	Below Cal	#	1
60) Dibromochloromethane	9.58	129	66	2.333	ug/l	67
70) Styrene	10.71	104	4893	0.258	ug/l	96
71) Bromoform	10.70	173	159	4.487	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	190361	24.149	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	190361	71.503	ug/l #	10
90) Hexachloroethane	12.70	117	92	3.315	ug/l	77

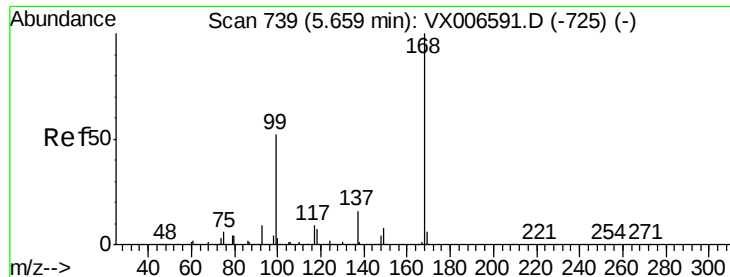
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

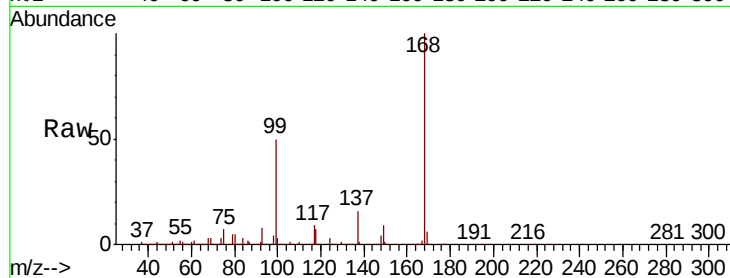
COMP-3

Tot Ion:168 Resp: 641532

Ion Ratio Lower Upper

168 100

99 50.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): VX006591.D (-725) (-)

Ion 98.90 (98.60 to 99.60): VX006591.D (-725) (-)

5.66

250000

200000

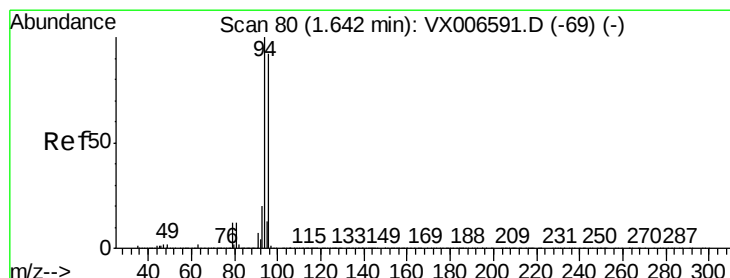
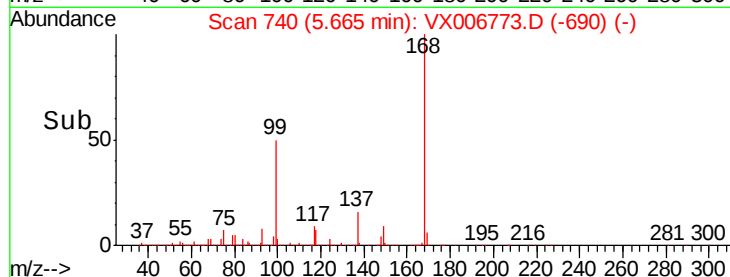
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006773.D

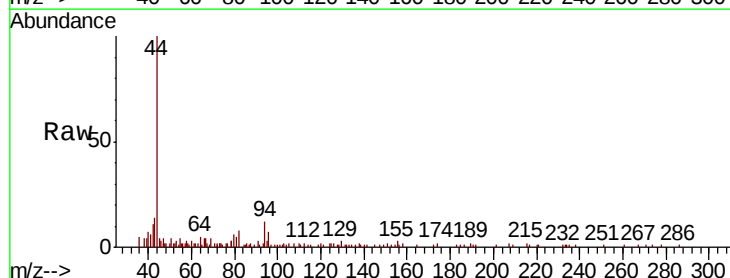
Acq: 22 Dec 2018 15:43

Tgt Ion: 94 Resp: 905

Ion Ratio Lower Upper

94 100

96 41.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX006591.D (-69) (-)

Ion 95.90 (95.60 to 96.60): VX006591.D (-69) (-)

1.65

800

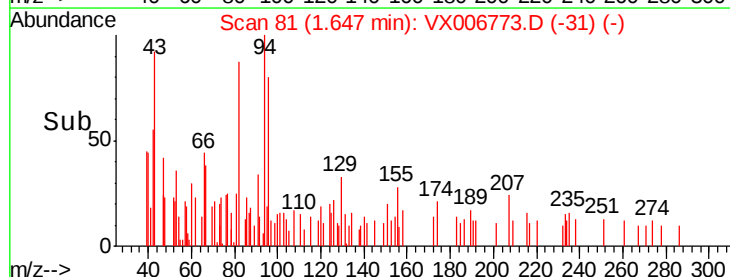
600

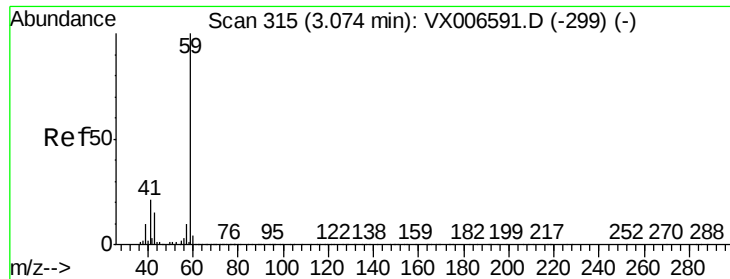
400

200

0

Time-->



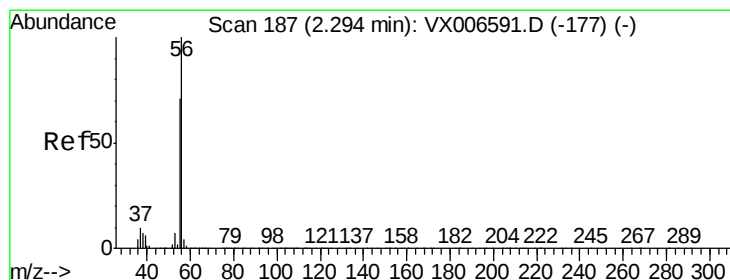
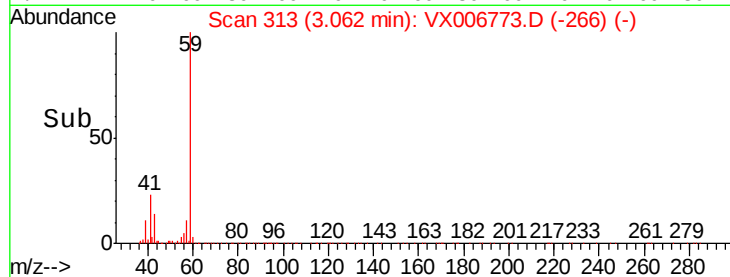
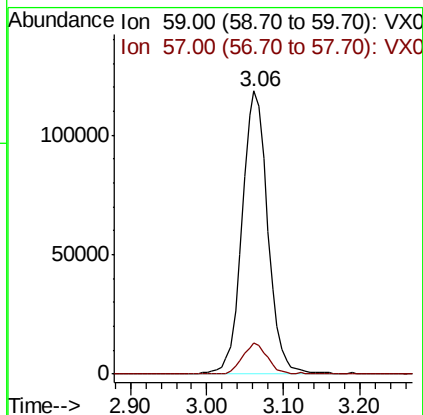
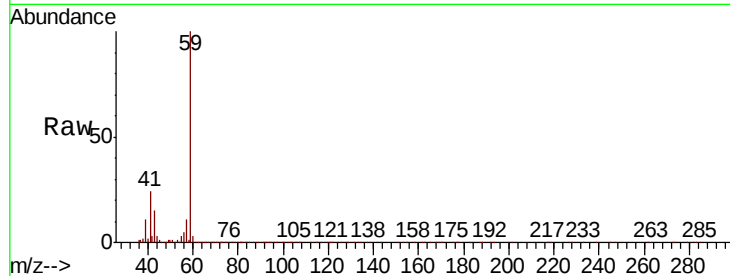


#11

Tert butyl alcohol
 Concen: 179.159 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX006773.D
 Acq: 22 Dec 2018 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-3

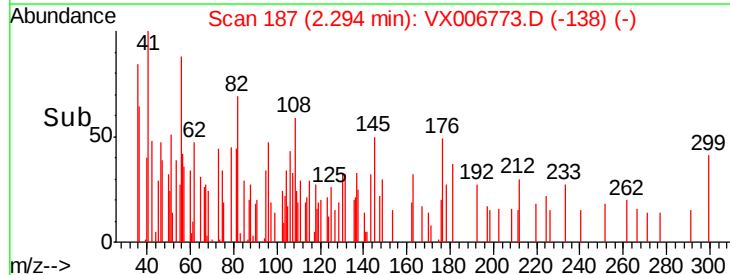
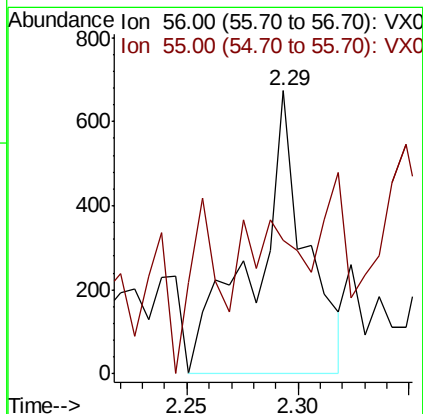
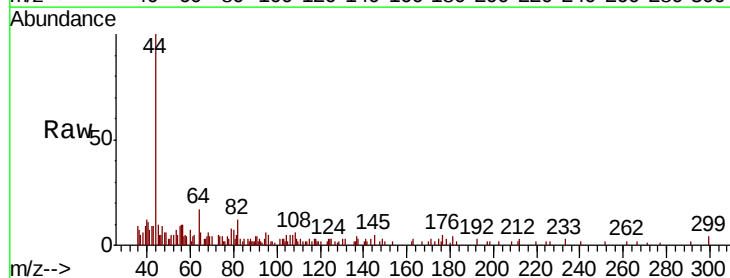
Tot Ion: 59 Resp: 276452
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.5 12.7

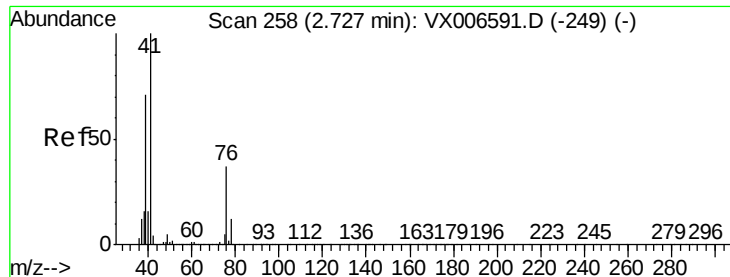


#13

Acrolein
 Concen: 1.028 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX006773.D
 Acq: 22 Dec 2018 15:43

Tgt Ion: 56 Resp: 1070
 Ion Ratio Lower Upper
 56 100
 55 62.9 58.2 87.4

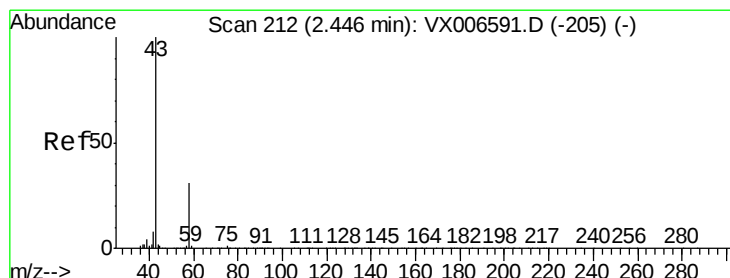
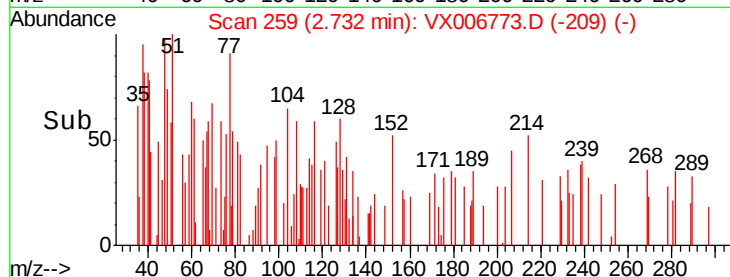
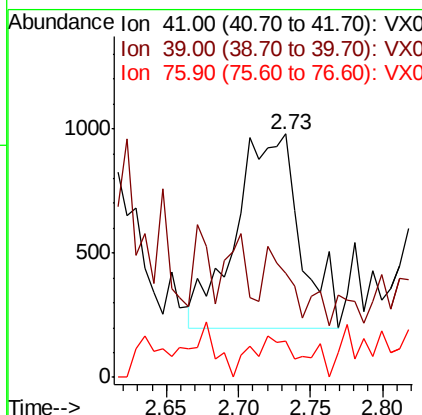
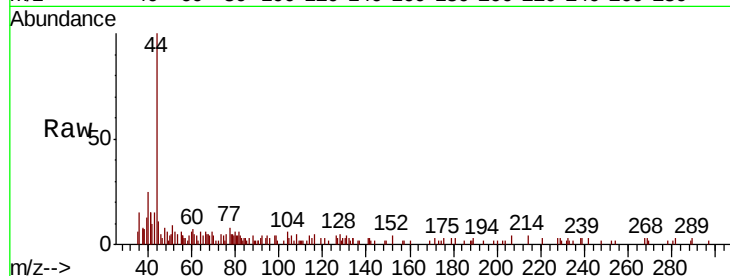




#14
Allvl chloride
Concen: 0.249 ug/l
RT: 2.73 min Scan# 259
Delta R.T. 0.01 min
Lab File: VX006773.D
Acq: 22 Dec 2018 15:43

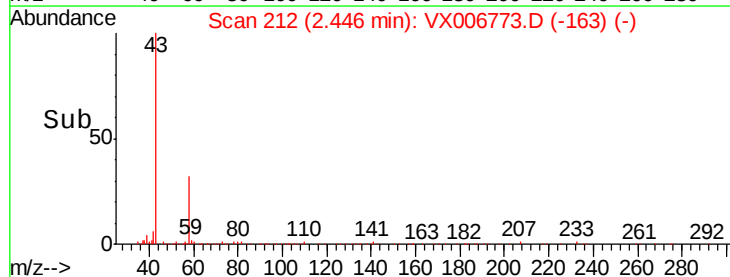
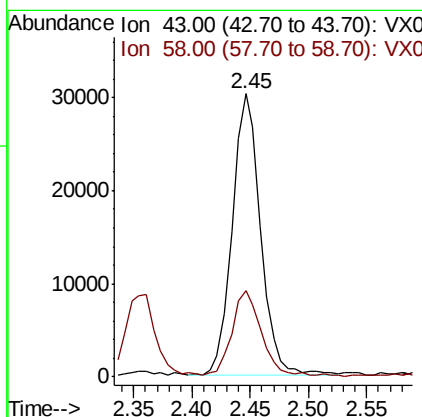
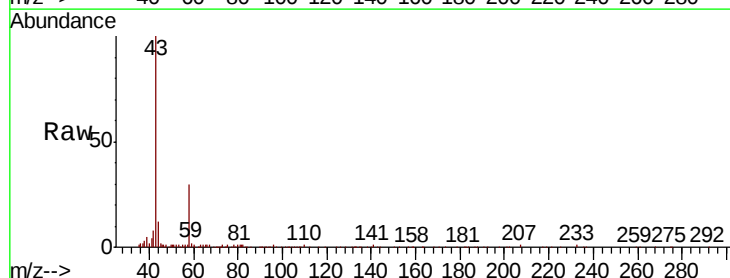
Instrument :
MSVOA_X
ClientSampleId :
COMP-3

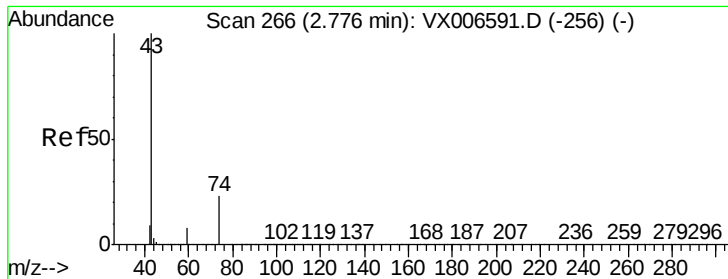
Tot Ion: 41 Resp: 2399
Ion Ratio Lower Upper
41 100
39 16.9 53.6 80.4#
76 15.2 27.4 41.2#



#16
Acetone
Concen: 16.002 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006773.D
Acq: 22 Dec 2018 15:43

Tgt Ion: 43 Resp: 50832
Ion Ratio Lower Upper
43 100
58 29.8 25.0 37.6

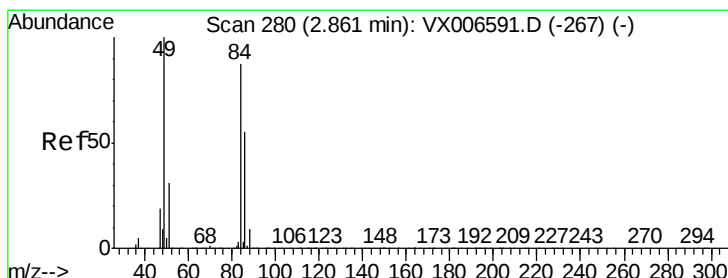
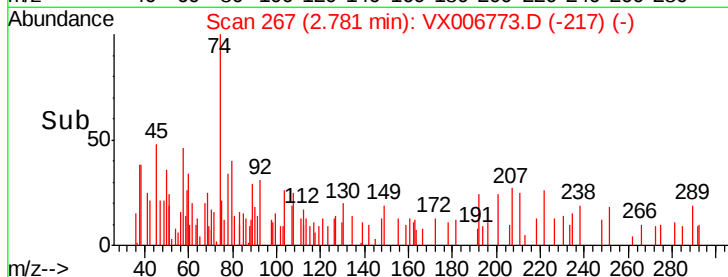
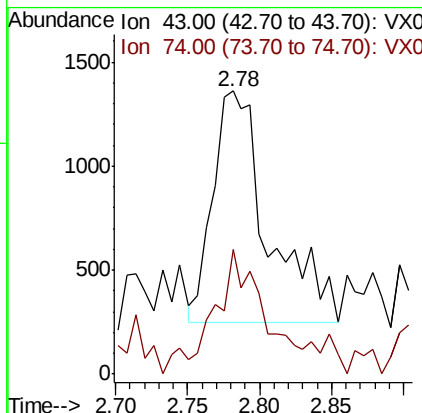
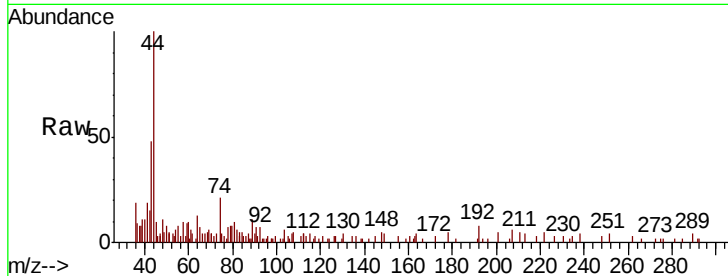




#18
Methyl Acetate
Concen: 0.321 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006773.D
Acq: 22 Dec 2018 15:43

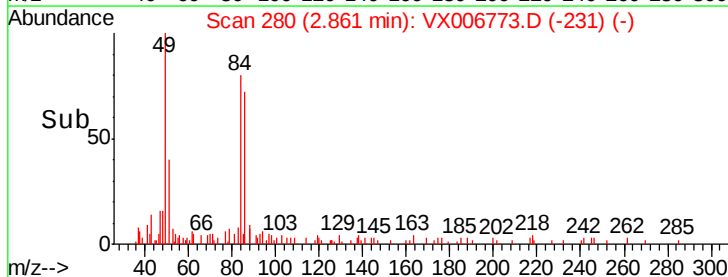
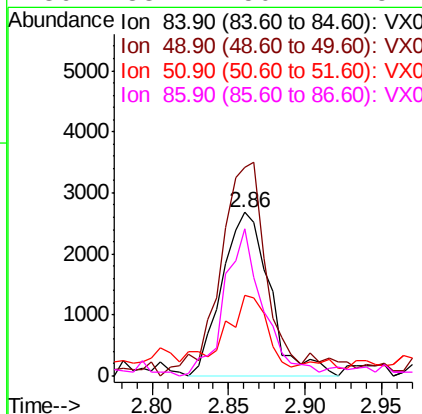
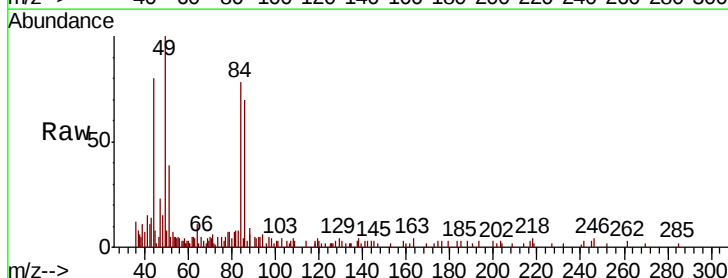
Instrument :
MSVOA_X
ClientSampled :
COMP-3

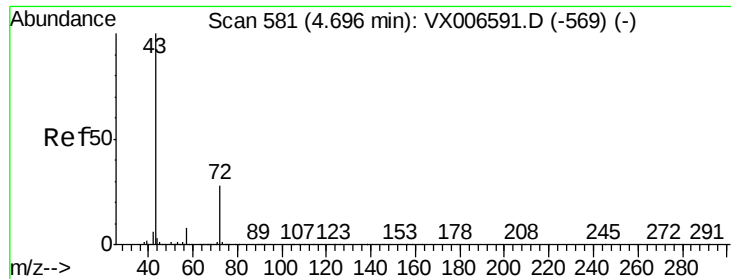
Tot Ion: 43 Resp: 2999
Ion Ratio Lower Upper
43 100
74 49.0 18.6 28.0#



#20
Methylene Chloride
Concen: 0.887 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006773.D
Acq: 22 Dec 2018 15:43

Tgt Ion: 84 Resp: 5827
Ion Ratio Lower Upper
84 100
49 119.6 91.8 137.6
51 44.7 28.5 42.7#
86 88.2 50.2 75.2#





#25

2-Butanone

Concen: 5.744 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

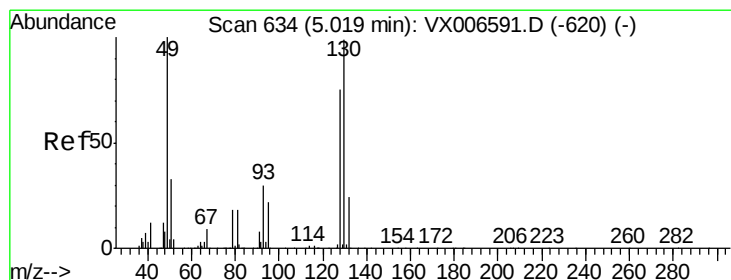
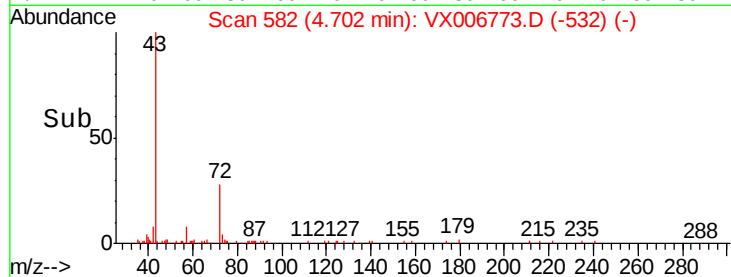
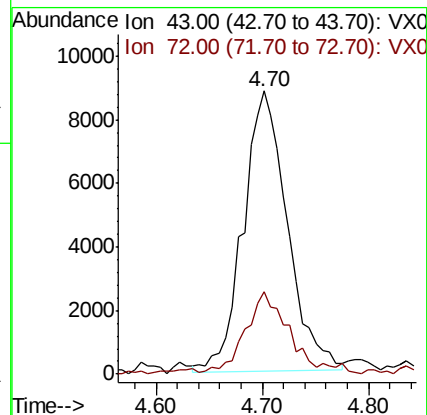
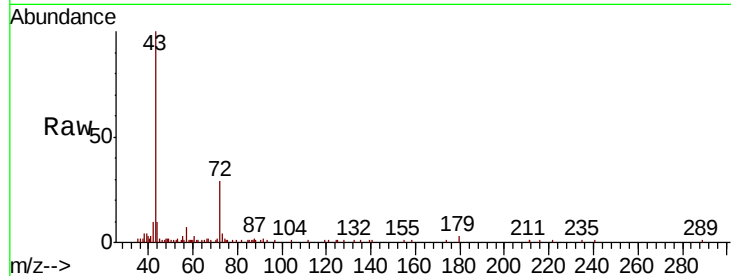
COMP-3

Tot Ion: 43 Resp: 25667

Ion Ratio Lower Upper

43 100

72 27.9 22.4 33.6



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

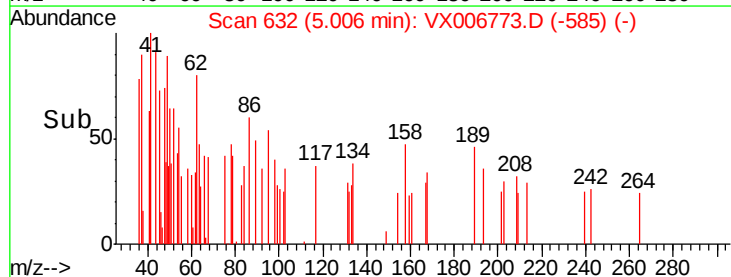
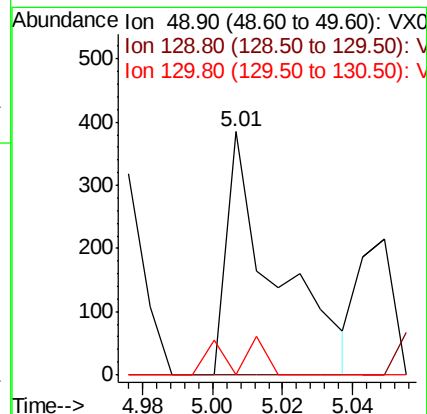
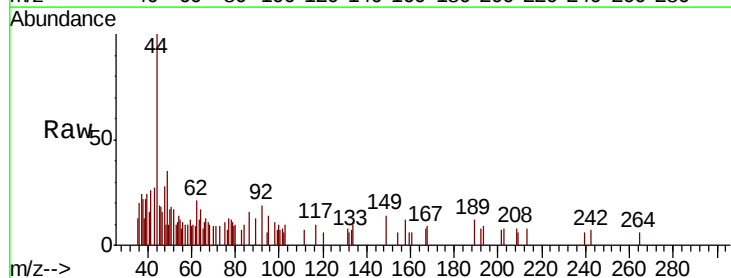
Tgt Ion: 49 Resp: 373

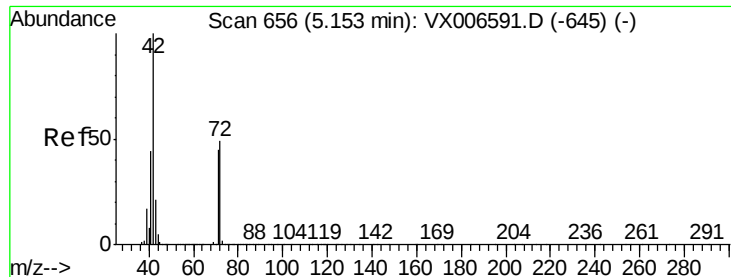
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 11.3 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.267 ug/l

RT: 5.16 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

COMP-3

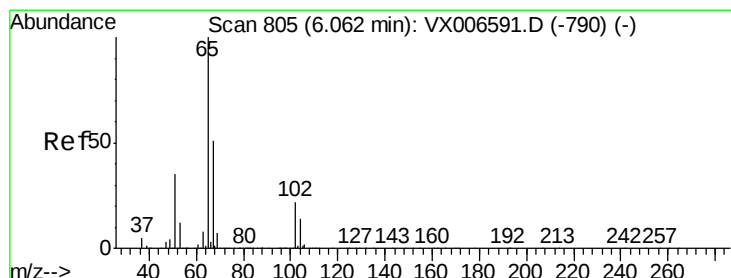
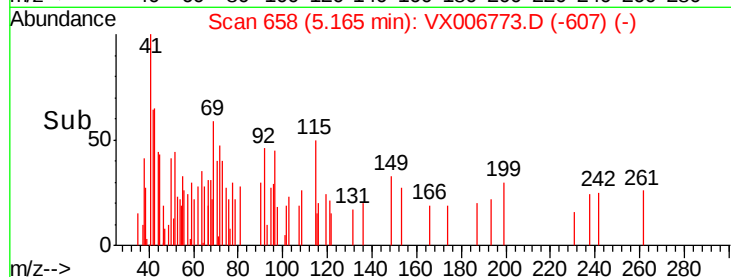
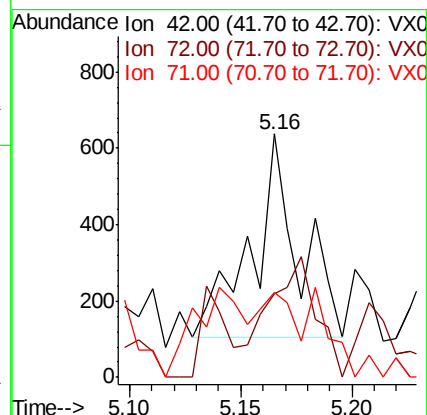
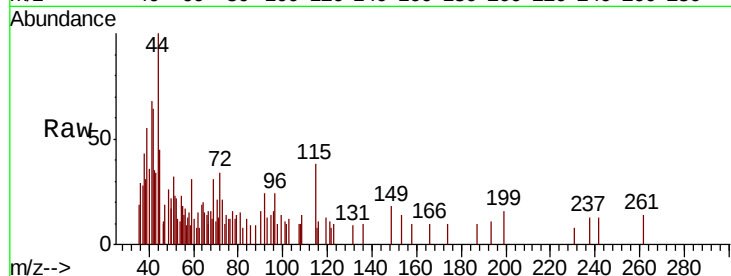
Tot Ion: 42 Resp: 787

Ion Ratio Lower Upper

42 100

72 60.7 38.9 58.3#

71 15.4 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 47.995 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006773.D

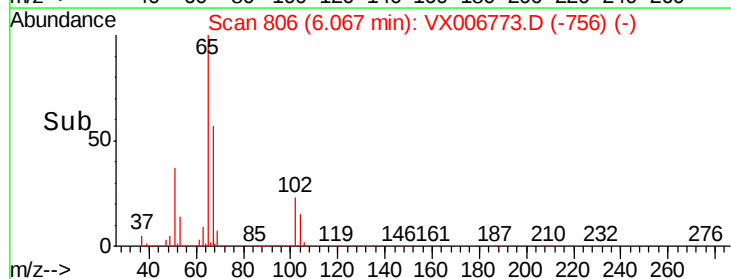
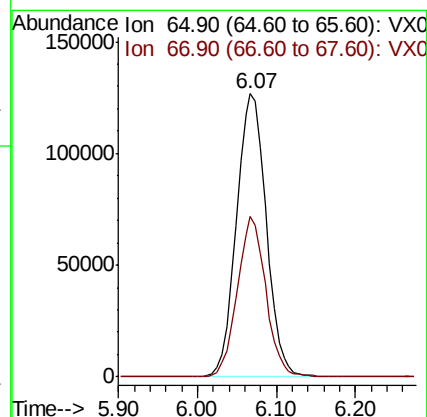
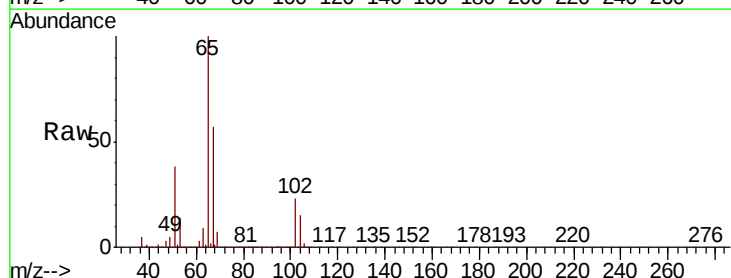
Acq: 22 Dec 2018 15:43

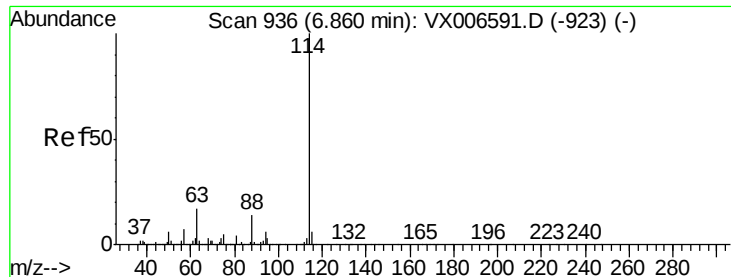
Tgt Ion: 65 Resp: 331842

Ion Ratio Lower Upper

65 100

67 54.4 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

COMP-3

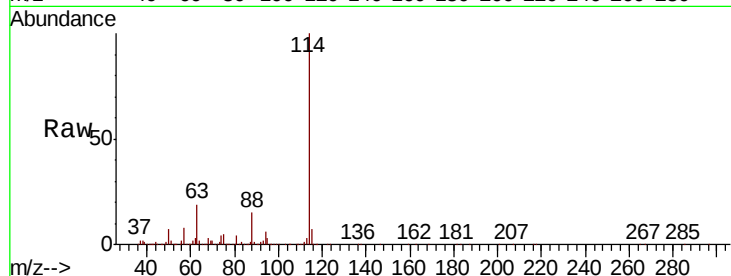
Tot Ion:114 Resp: 975979

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.8

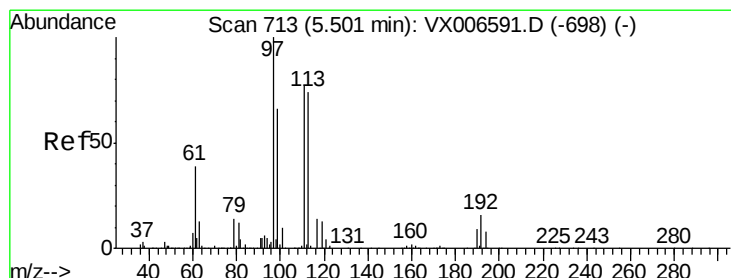
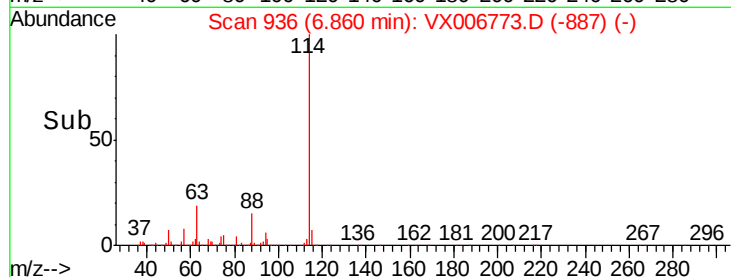
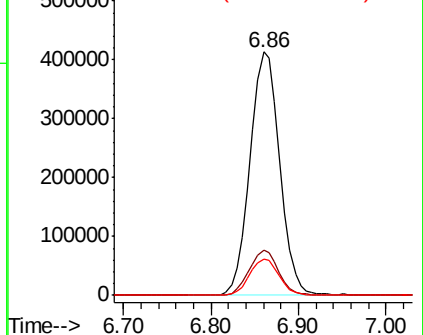
88 15.1 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.703 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

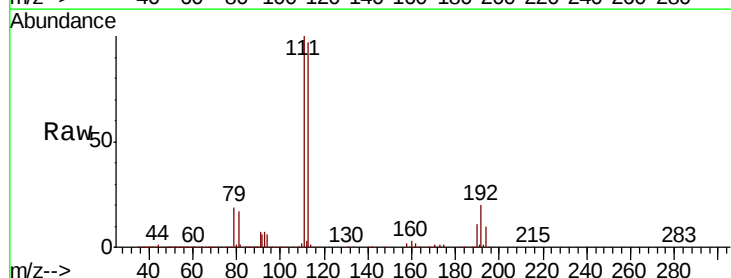
Tgt Ion:113 Resp: 294418

Ion Ratio Lower Upper

113 100

111 103.0 81.6 122.4

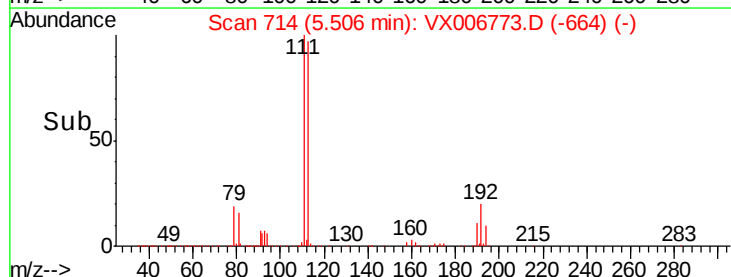
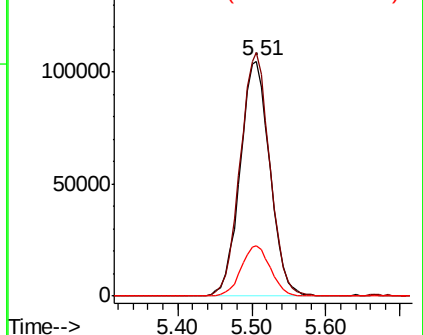
192 21.1 16.7 25.1

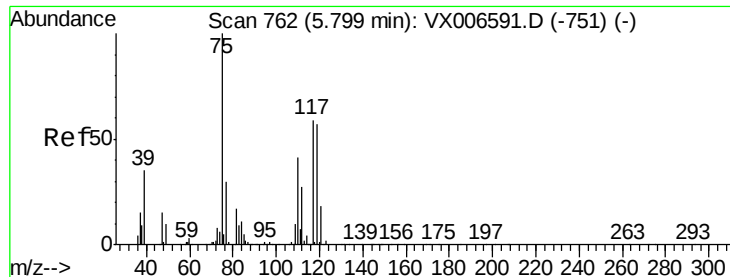


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.131 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

COMP-3

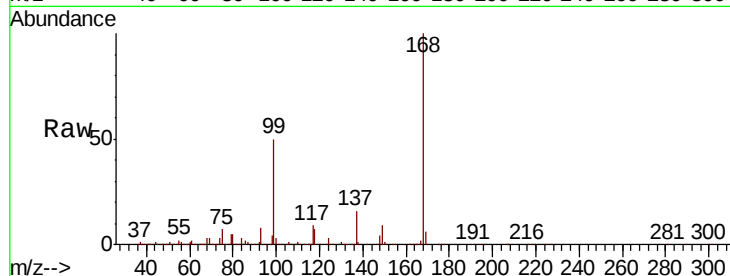
Tot Ion: 75 Resp: 41472

Ion Ratio Lower Upper

75 100

110 9.8 20.2 60.5#

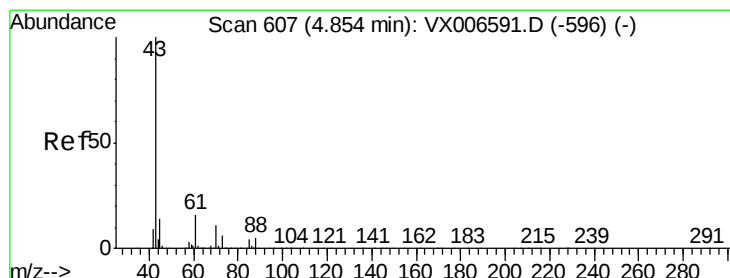
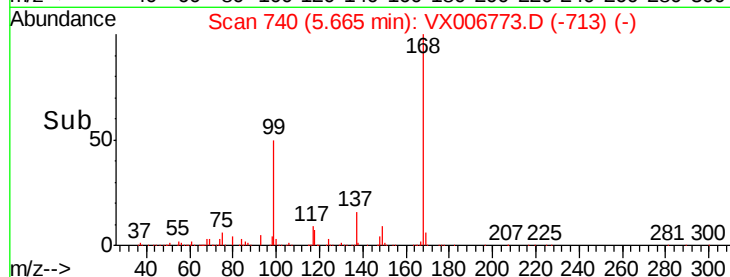
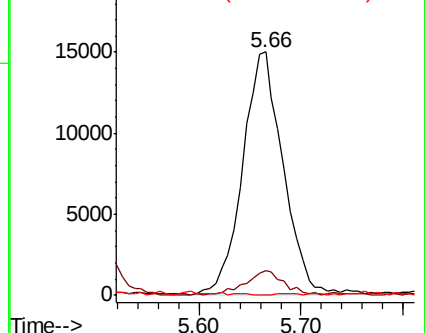
77 0.4 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 3.058 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.15 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

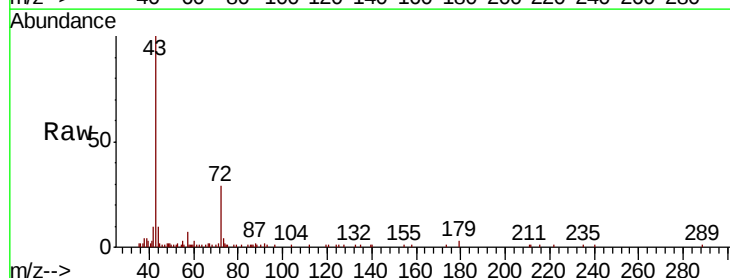
Tgt Ion: 43 Resp: 25730

Ion Ratio Lower Upper

43 100

61 1.3 11.9 17.9#

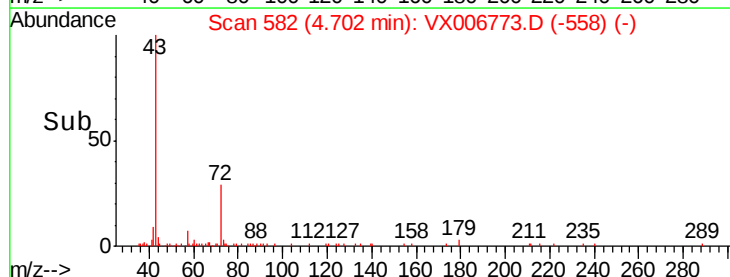
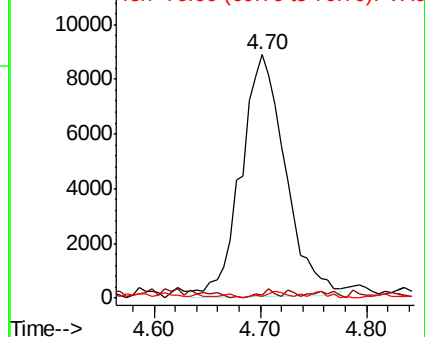
70 1.4 9.7 14.5#

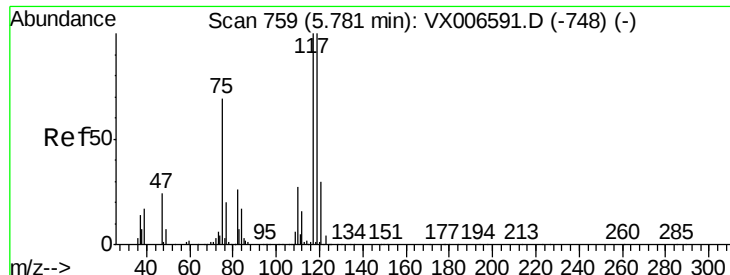


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.371 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

COMP-3

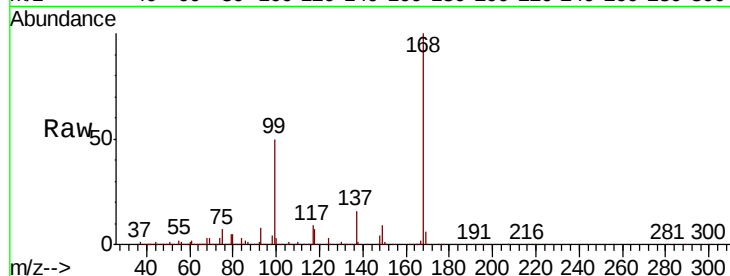
Tot Ion:117 Resp: 57905

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

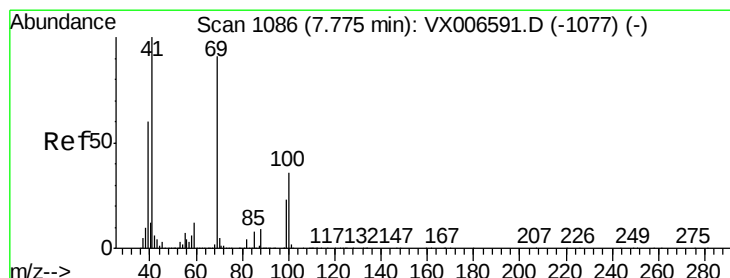
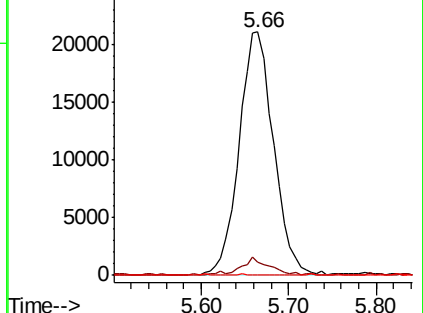
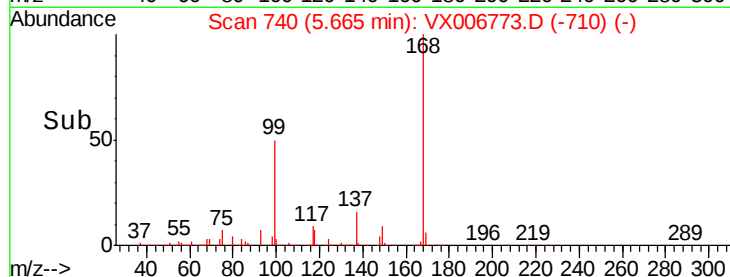
121 0.0 24.0 36.0#



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



#48

Methyl methacrylate

Concen: 0.802 ug/l

RT: 7.78 min Scan# 1087

Delta R.T. 0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

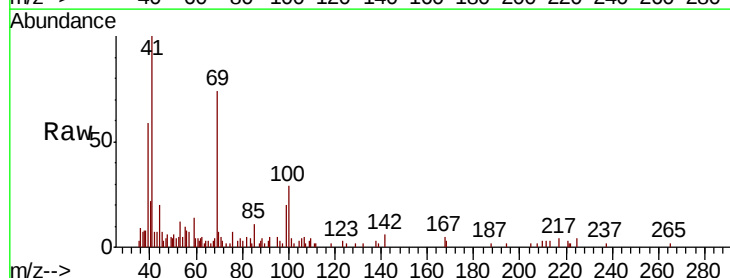
Tgt Ion: 41 Resp: 5224

Ion Ratio Lower Upper

41 100

69 77.0 72.4 108.6

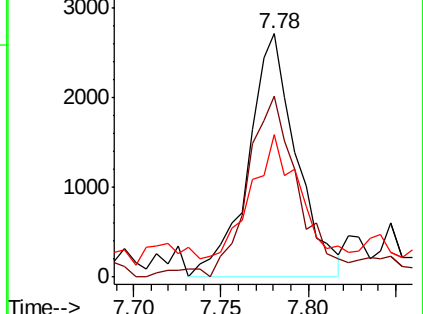
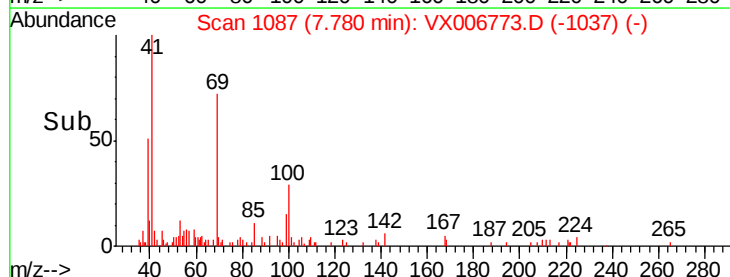
39 49.8 45.8 68.8

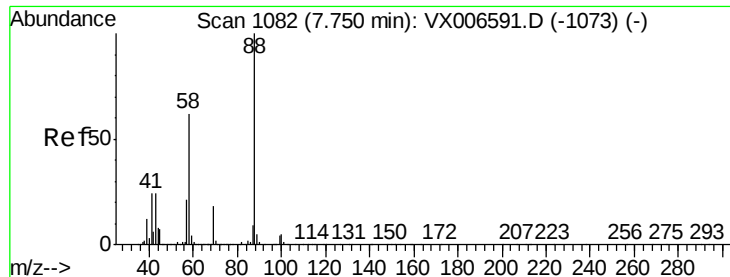


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

COMP-3

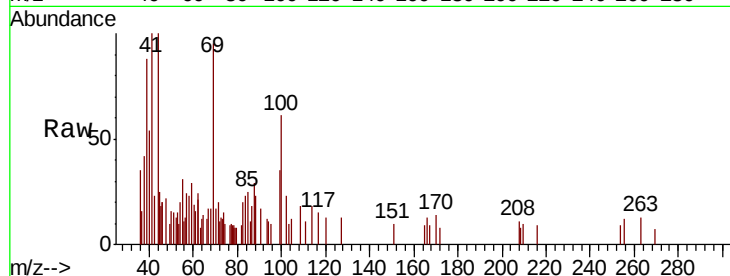
Tot Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

43 171.6 22.2 33.4#

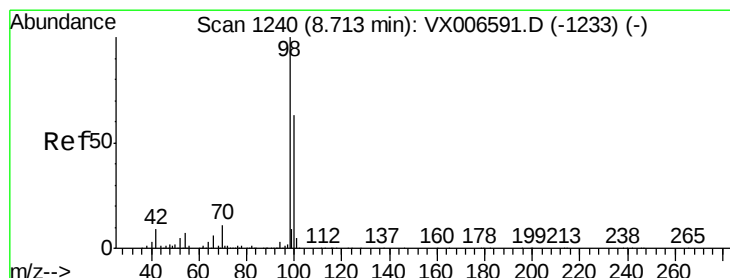
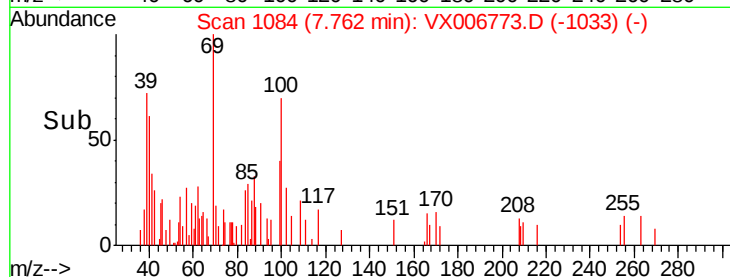
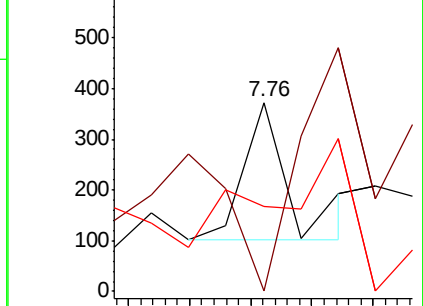
58 0.0 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.153 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006773.D

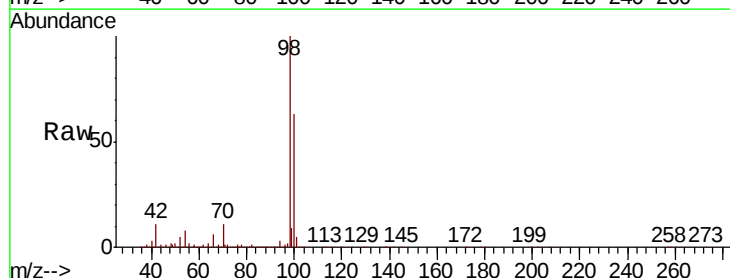
Acq: 22 Dec 2018 15:43

Tgt Ion: 98 Resp: 1143703

Ion Ratio Lower Upper

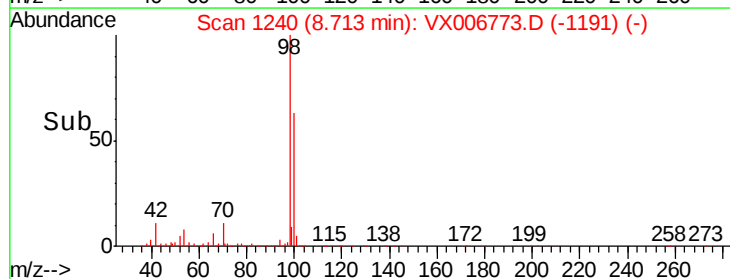
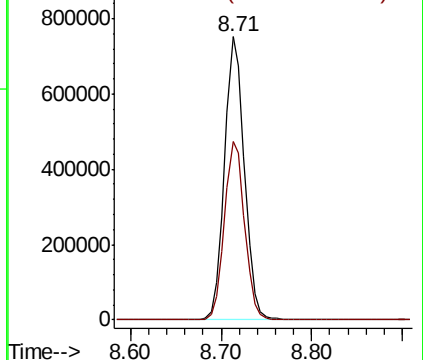
98 100

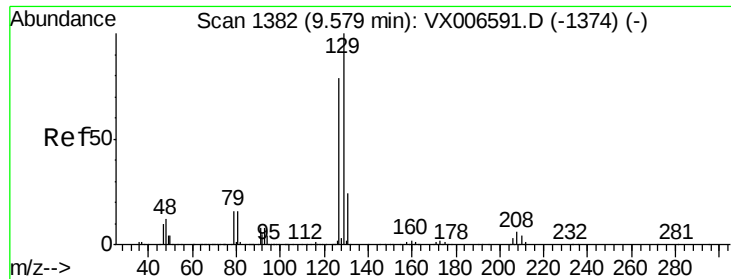
100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.333 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

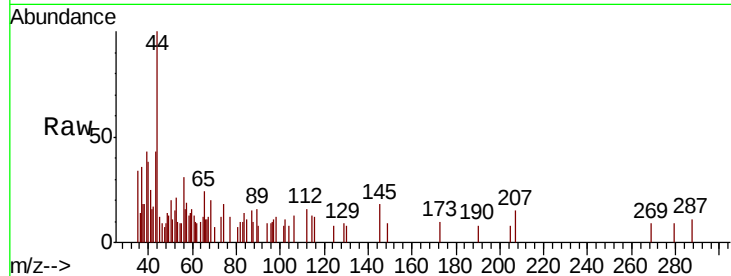
COMP-3

Tot Ion:129 Resp: 66

Ion Ratio Lower Upper

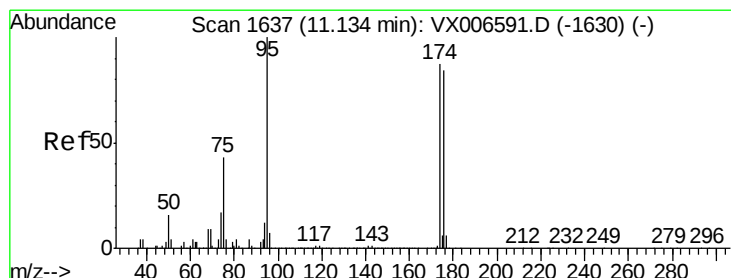
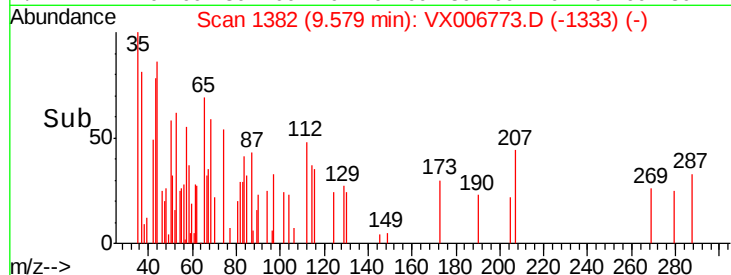
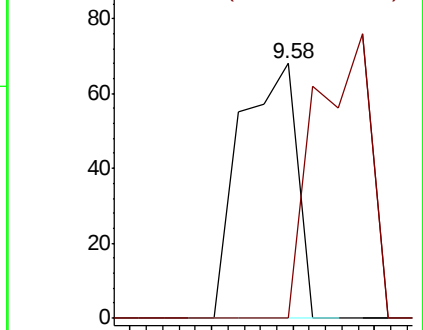
129 100

127 107.6 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.510 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

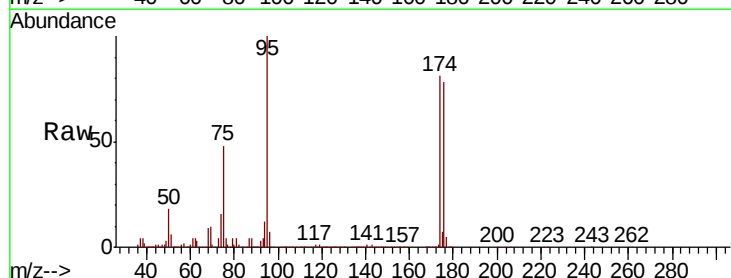
Tgt Ion: 95 Resp: 404873

Ion Ratio Lower Upper

95 100

174 89.7 0.0 182.2

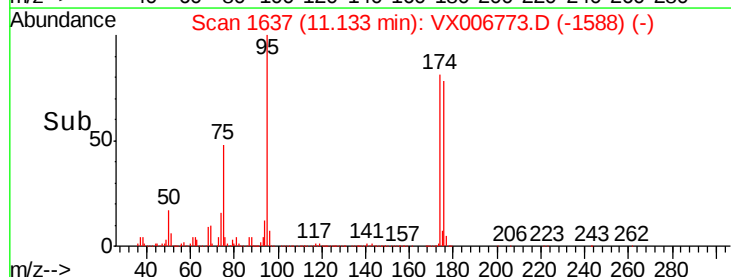
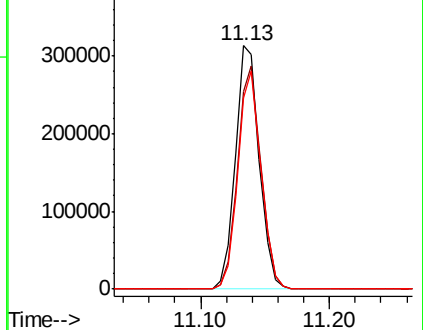
176 86.9 0.0 178.8

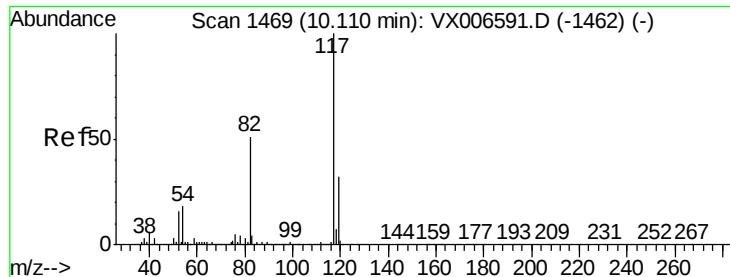


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

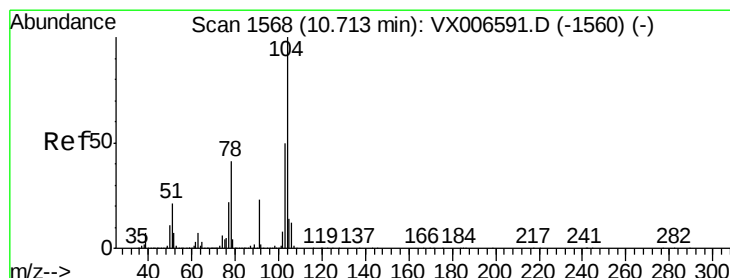
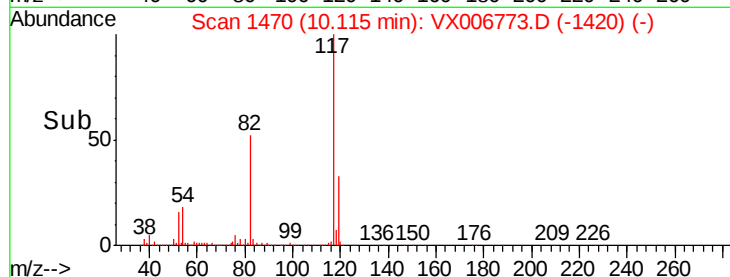
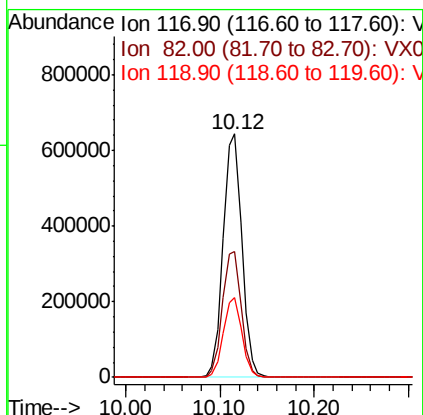
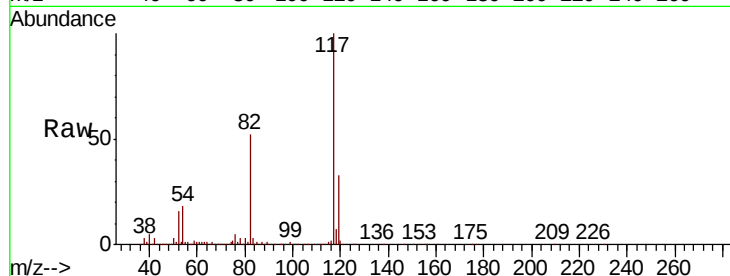




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006773.D
Acq: 22 Dec 2018 15:43

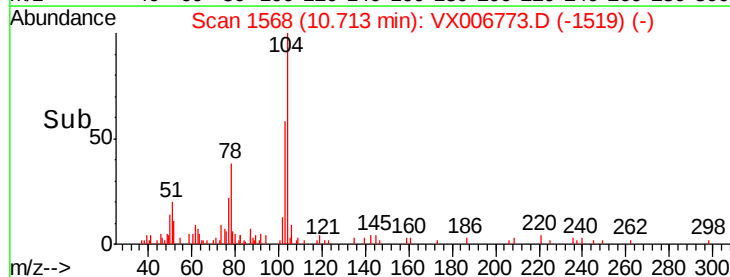
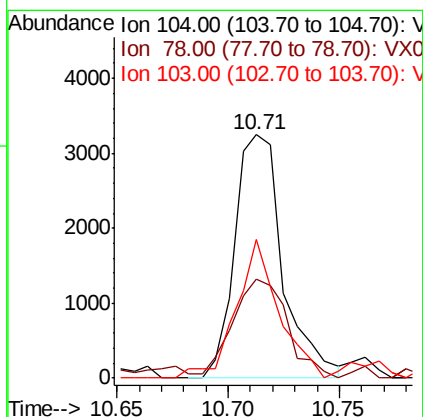
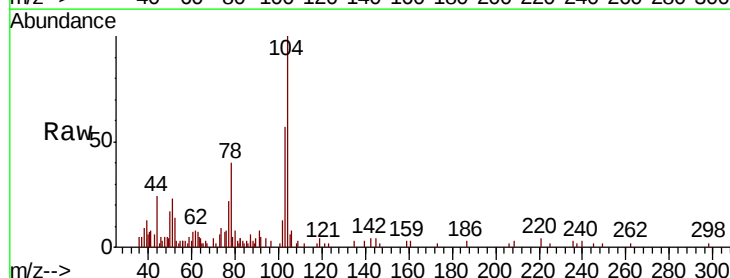
Instrument :
MSVOA_X
ClientSampleId :
COMP-3

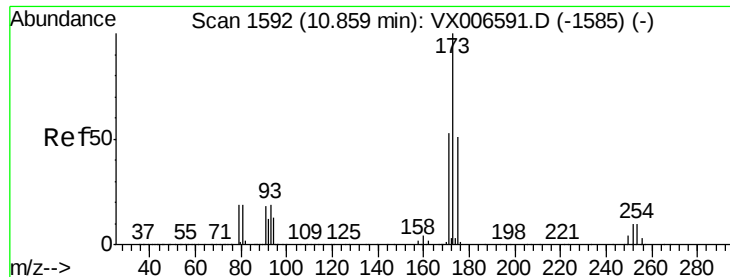
Tot Ion:117 Resp: 889735
Ion Ratio Lower Upper
117 100
82 51.5 41.0 61.6
119 33.0 25.4 38.0



#70
Styrene
Concen: 0.258 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX006773.D
Acq: 22 Dec 2018 15:43

Tgt Ion:104 Resp: 4893
Ion Ratio Lower Upper
104 100
78 46.1 37.7 56.5
103 50.4 43.8 65.8





#71

Bromoform

Concen: 4.487 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. -0.16 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

COMP-3

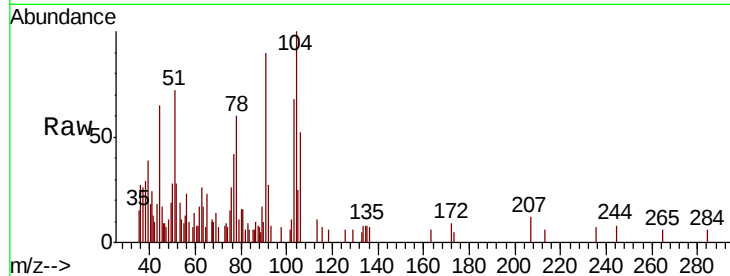
Tot Ion:173 Resp: 159

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

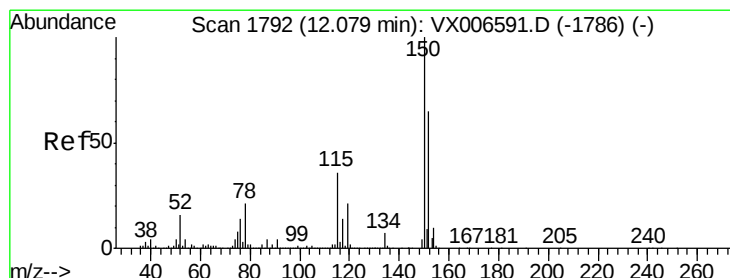
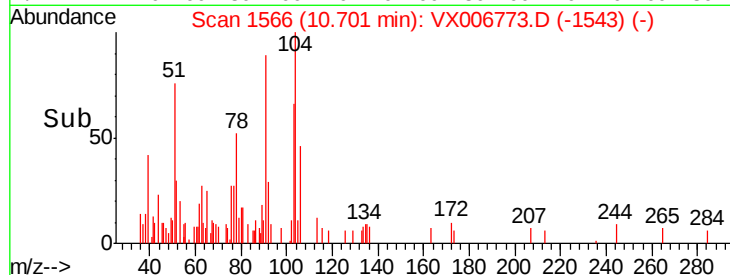
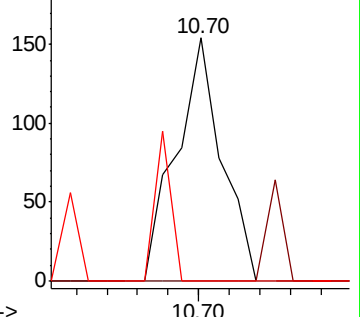
254 22.0 0.2 0.2#



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. -0.00 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

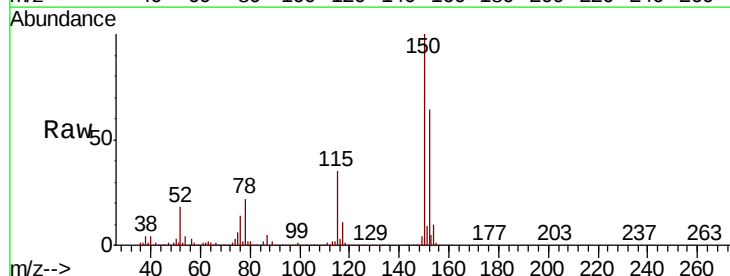
Tgt Ion:152 Resp: 424170

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.2

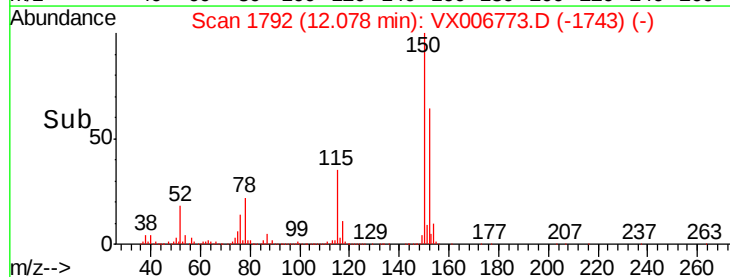
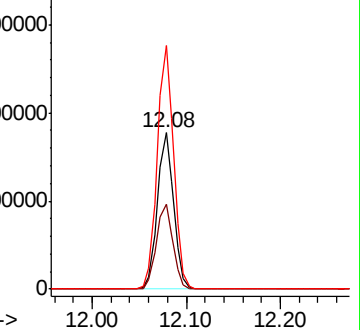
150 157.5 0.0 344.8

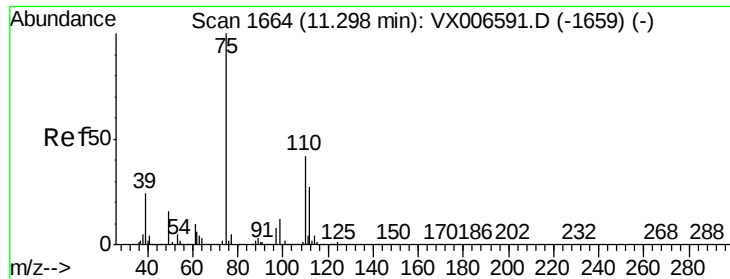


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

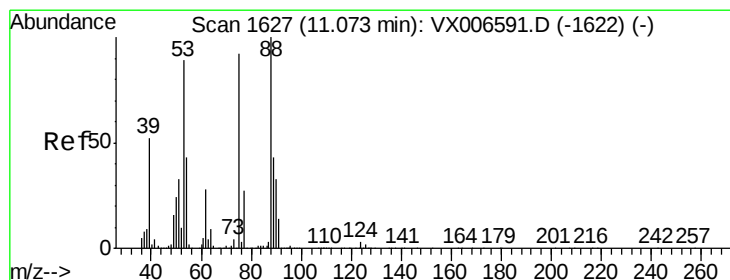
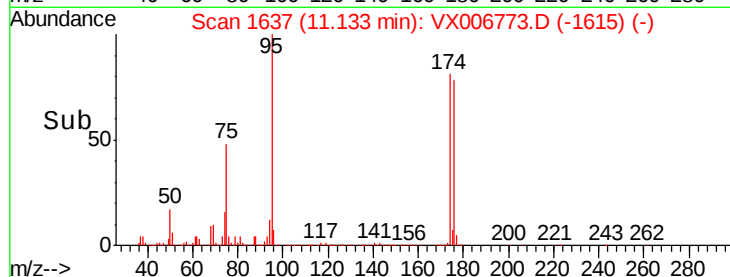
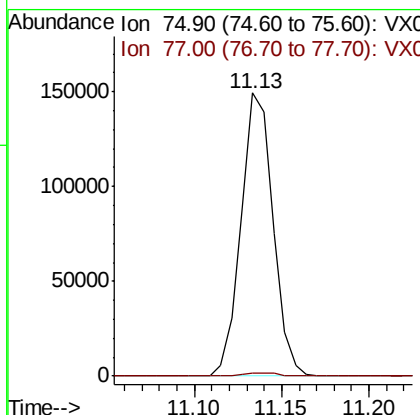
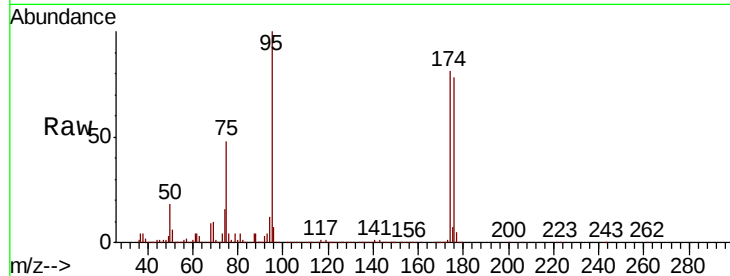




#76
 1,2,3-Trichloropropane
 Concen: 24.149 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006773.D
 Acq: 22 Dec 2018 15:43

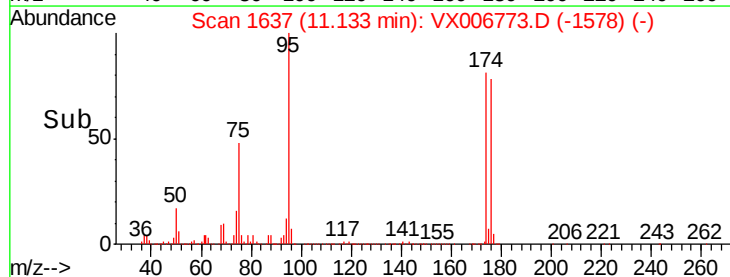
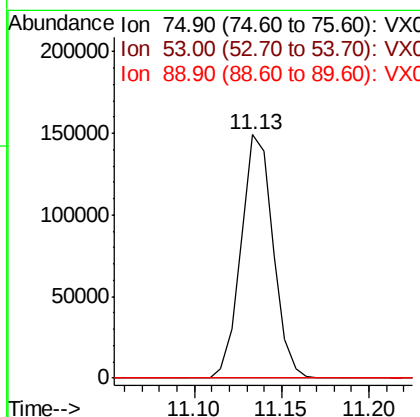
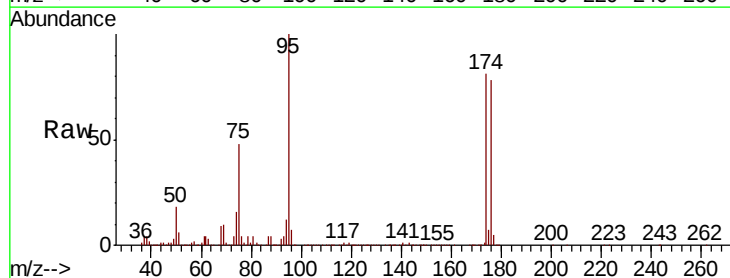
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-3

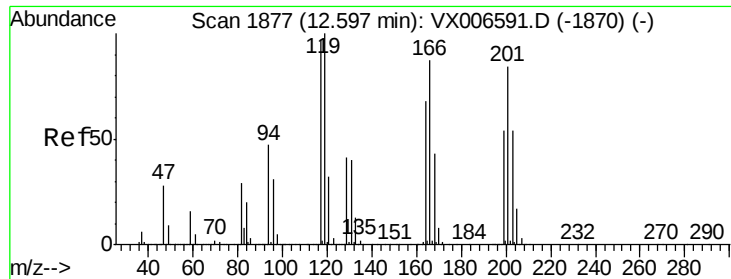
Tot Ion: 75 Resp: 190361
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.503 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006773.D
 Acq: 22 Dec 2018 15:43

Tgt Ion: 75 Resp: 190361
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.315 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX006773.D

Acq: 22 Dec 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

COMP-3

Tot Ion:117 Resp: 92

Ion Ratio Lower Upper

117 100

201 106.5 42.9 128.7

