

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002993.D
 Acq On : 28 Jun 2018 18:47
 Operator : JC/MD
 Sample : J3717-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 N48969

Quant Time: Jun 29 06:11:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	376129	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	354655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213963	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	179402	48.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.16%	
35) Dibromofluoromethane	5.51	113	144595	48.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.08%	
50) Toluene-d8	8.72	98	528585	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.14	95	198745	47.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.76%	

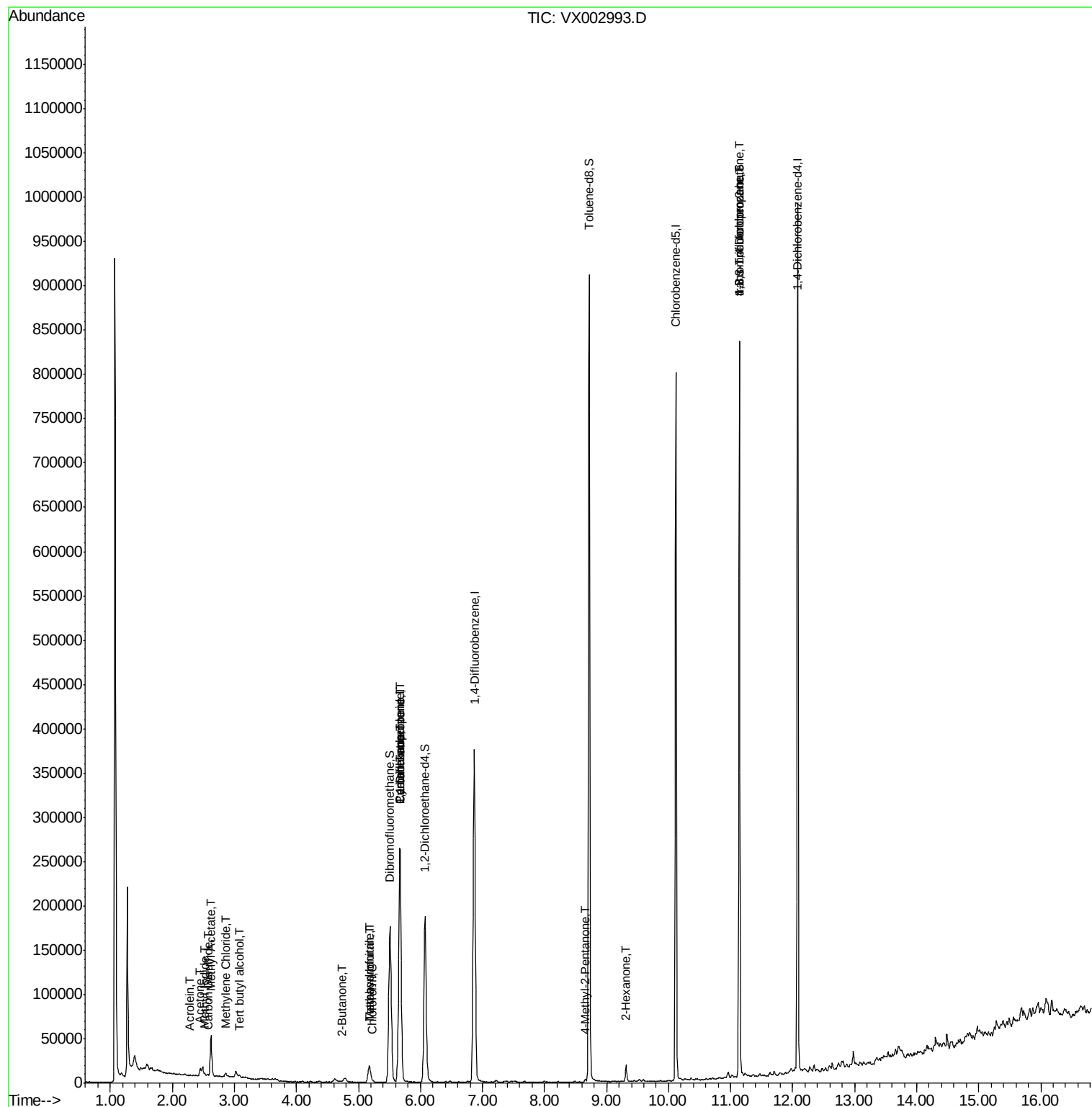
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	682	Below Cal	#	46
5) Bromomethane	1.65	94	1767	Below Cal		94
6) Chloroethane	1.62	64	1311	Below Cal	#	61
10) Methyl Iodide	2.52	142	3422	7.23	ug/l	92
11) Tert butyl alcohol	3.07	59	2538	3.45	ug/l	89
13) Acrolein	2.29	56	417	5.23	ug/l	88
16) Acetone	2.45	43	9510	6.22	ug/l	94
17) Carbon Disulfide	2.57	76	2091	0.30	ug/l	97
18) Methyl Acetate	2.62	43	11998	2.81	ug/l	# 56
20) Methylene Chloride	2.86	84	2016	0.68	ug/l	87
25) 2-Butanone	4.73	43	1578	0.70	ug/l	98
29) Tetrahydrofuran	5.17	42	16684	11.46	ug/l	100
30) Chloroform	5.23	83	1145	0.21	ug/l	92
31) Cyclohexane	5.66	56	5282	1.14	ug/l	# 31
36) 1,1-Dichloropropene	5.67	75	18280	4.43	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	24010	5.30	ug/l	# 17
41) Methacrylonitrile	5.17	41	10043	3.93	ug/l	# 53
51) 4-Methyl-2-Pentanone	8.66	43	1510	0.32	ug/l	# 80
59) 2-Hexanone	9.31	43	10298	2.91	ug/l	79
76) 1,2,3-Trichloropropane	11.14	75	102123	26.35	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	102123	74.67	ug/l	# 7

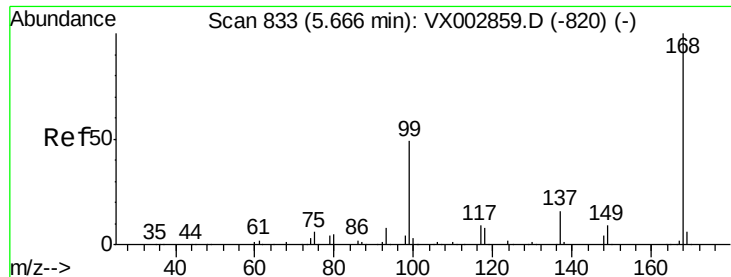
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 25 14:38:05 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

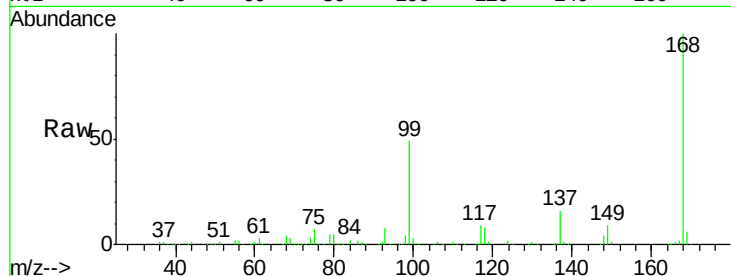
N48969

Tot Ion:168 Resp: 267201

Ion Ratio Lower Upper

168 100

99 49.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

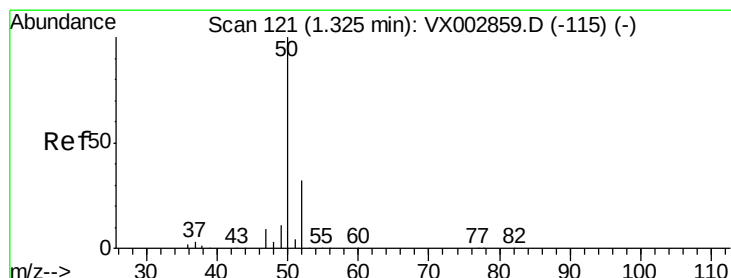
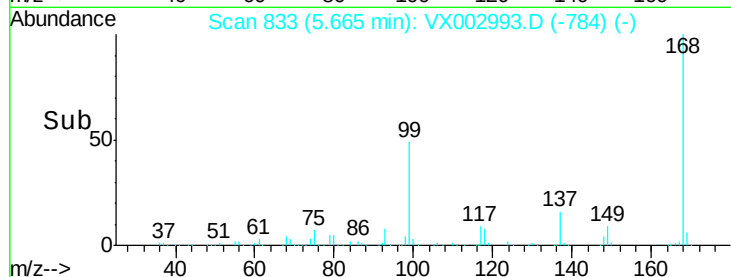
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002993.D

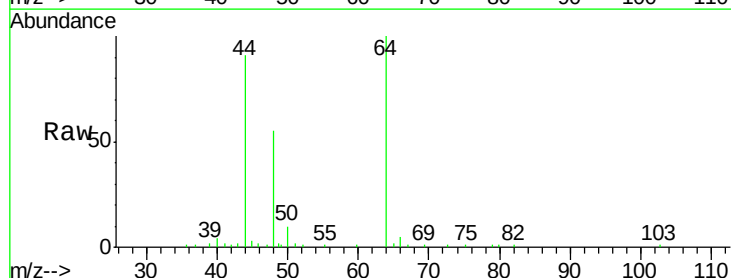
Acq: 28 Jun 2018 18:47

Tgt Ion: 50 Resp: 682

Ion Ratio Lower Upper

50 100

52 2.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

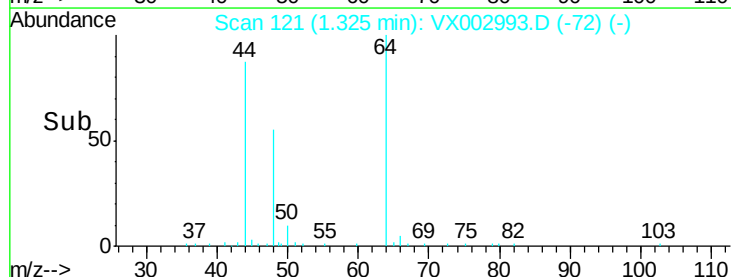
600

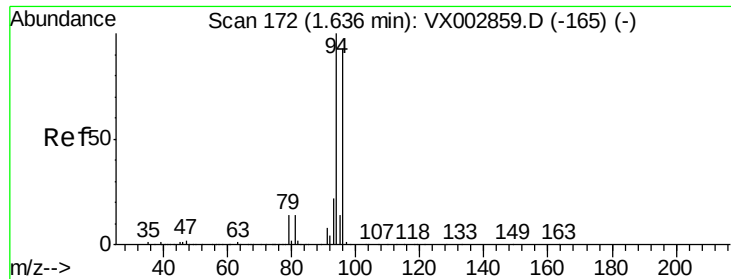
400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

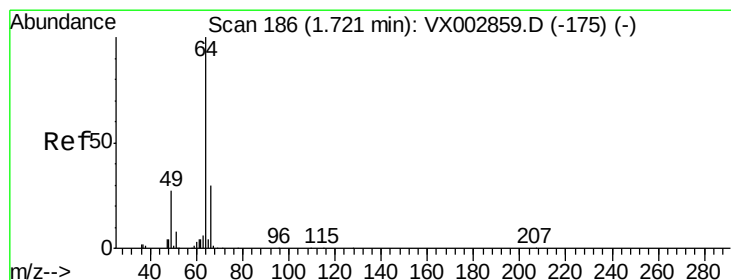
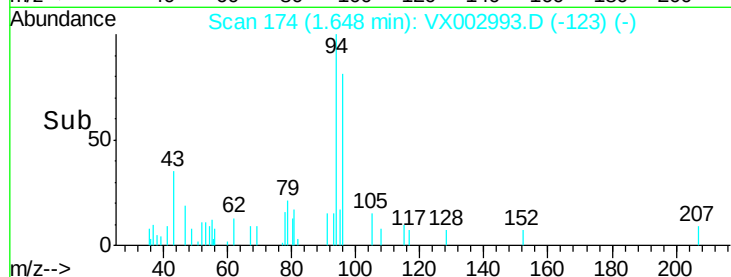
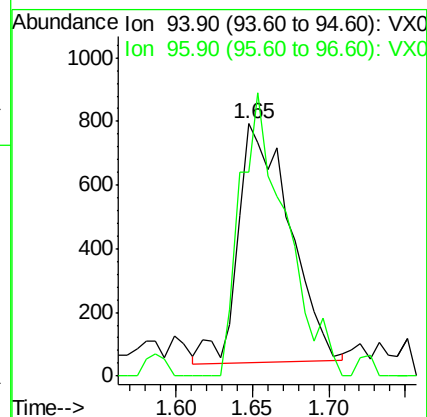
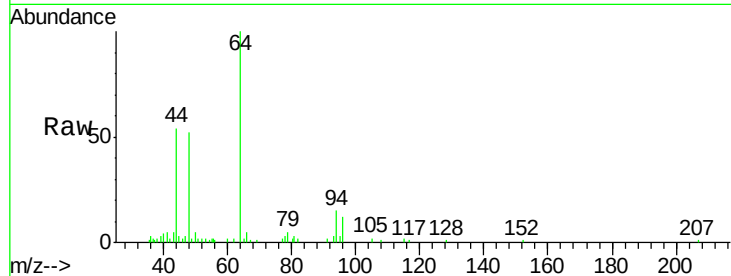
N48969

Tot Ion: 94 Resp: 1767

Ion Ratio Lower Upper

94 100

96 87.7 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.10 min

Lab File: VX002993.D

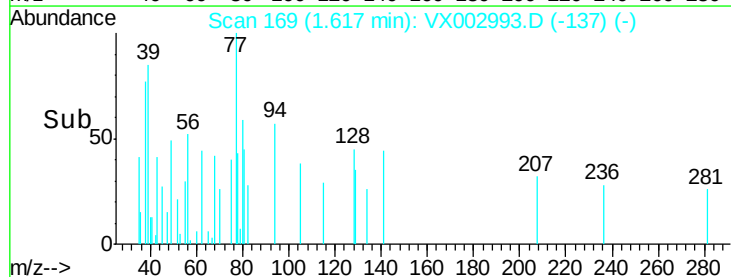
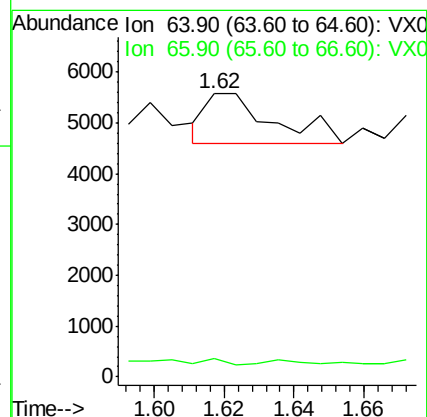
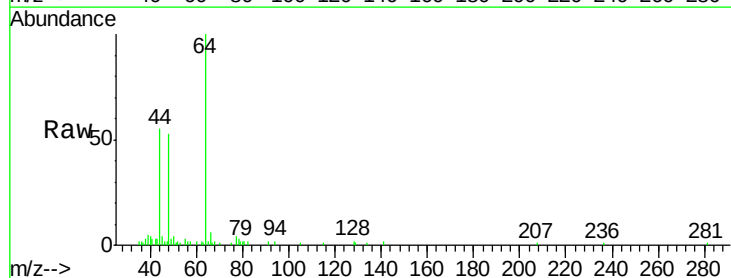
Acq: 28 Jun 2018 18:47

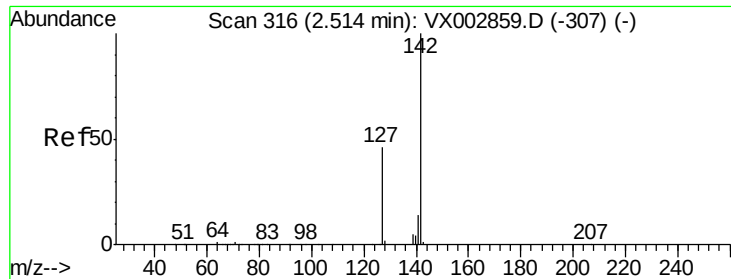
Tgt Ion: 64 Resp: 1311

Ion Ratio Lower Upper

64 100

66 10.0 25.5 38.3#

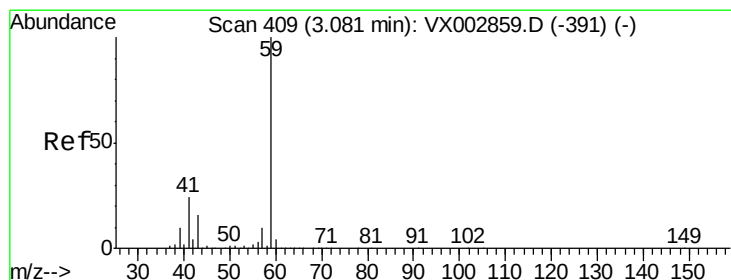
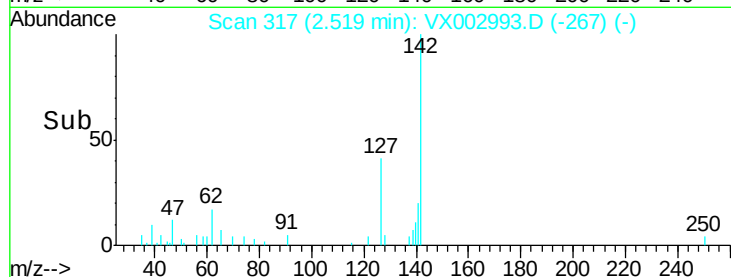
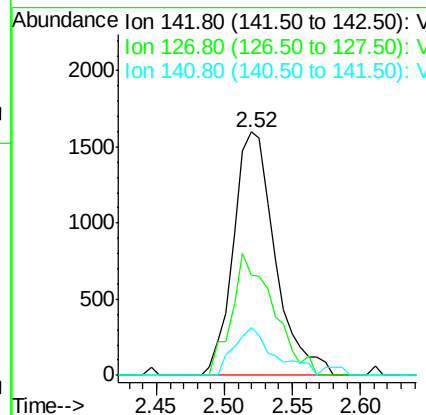
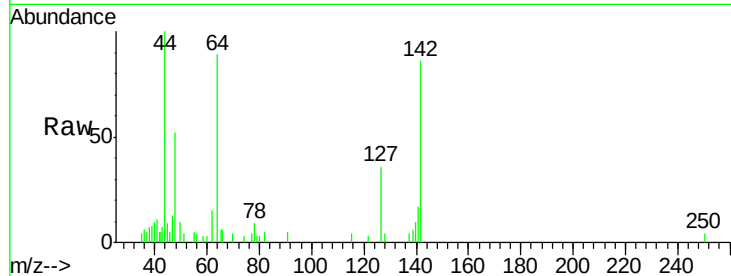




#10
Methvl Iodide
Concen: 7.23 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

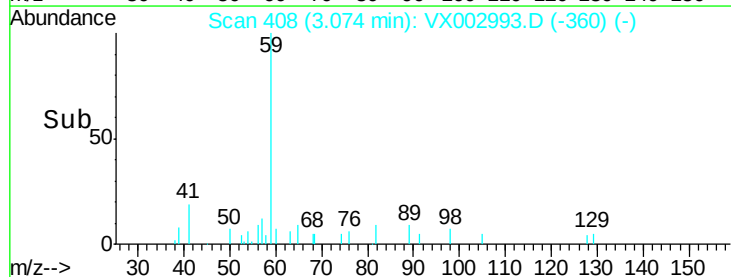
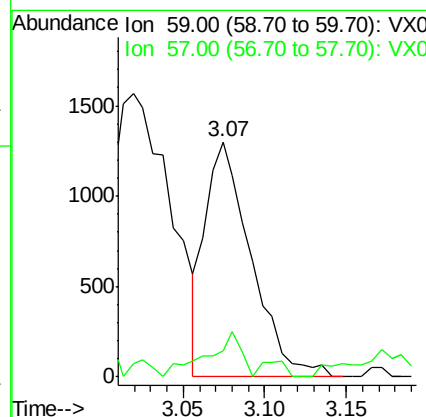
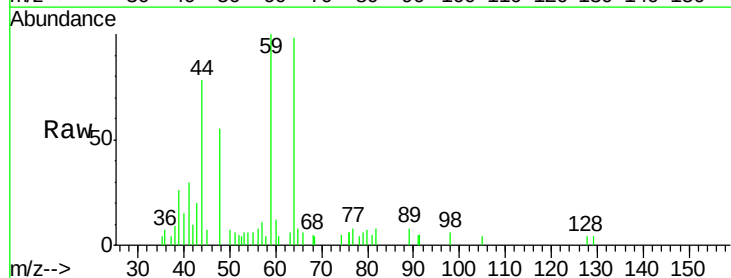
Instrument :
MSVOA_X
ClientSampleId :
N48969

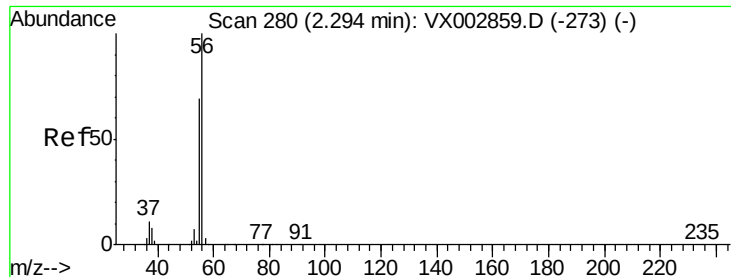
Tot Ion:142 Resp: 3422
Ion Ratio Lower Upper
142 100
127 50.1 36.6 55.0
141 19.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 3.45 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Tgt Ion: 59 Resp: 2538
Ion Ratio Lower Upper
59 100
57 14.3 8.2 12.2#

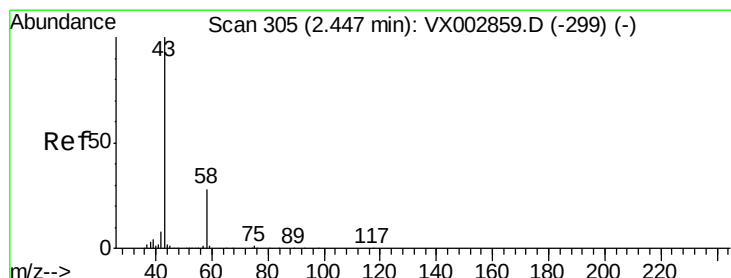
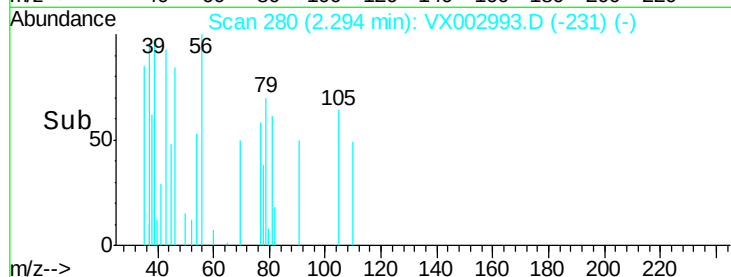
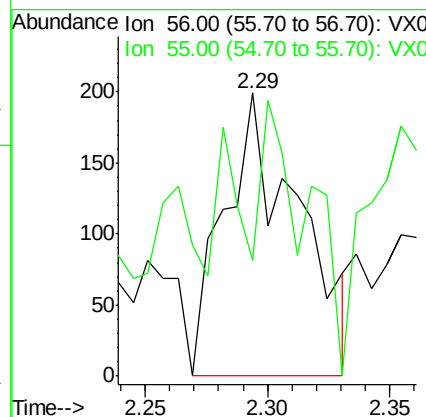
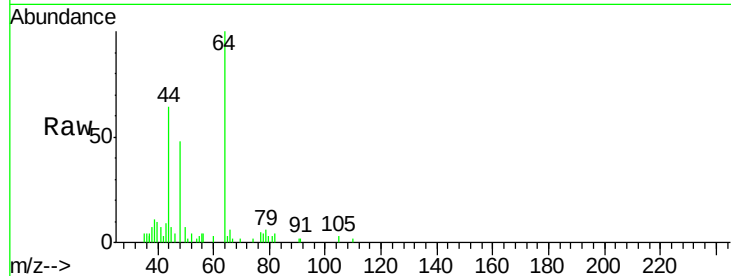




#13
Acrolein
Concen: 5.23 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

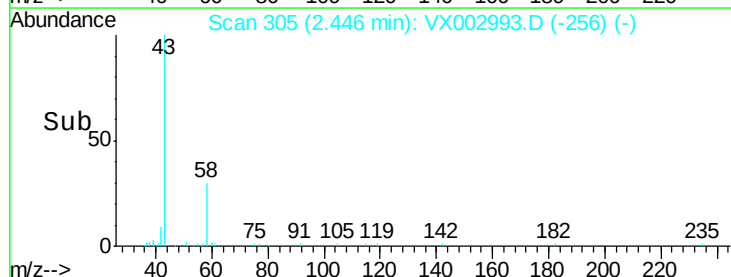
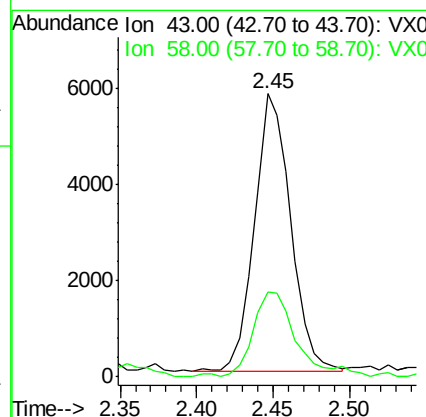
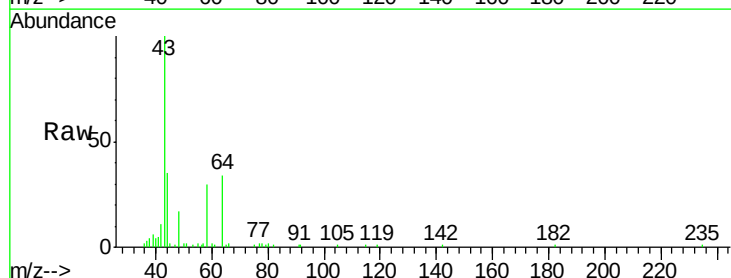
Instrument :
MSVOA_X
ClientSampleId :
N48969

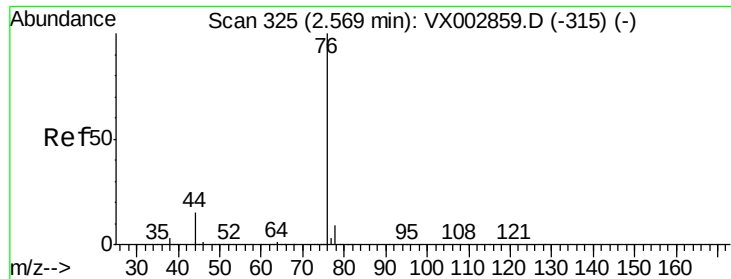
Tot Ion: 56 Resp: 417
Ion Ratio Lower Upper
56 100
55 61.2 57.0 85.4



#16
Acetone
Concen: 6.22 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.00 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Tgt Ion: 43 Resp: 9510
Ion Ratio Lower Upper
43 100
58 30.8 22.1 33.1





#17

Carbon Disulfide

Concen: 0.30 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampled :

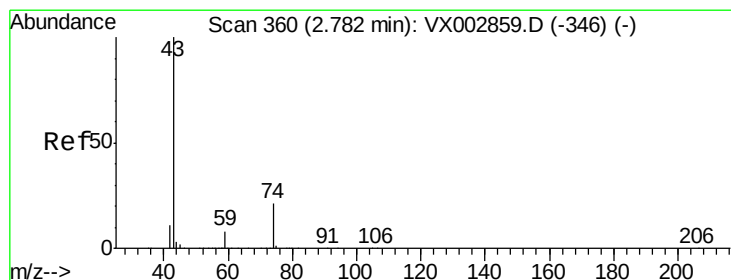
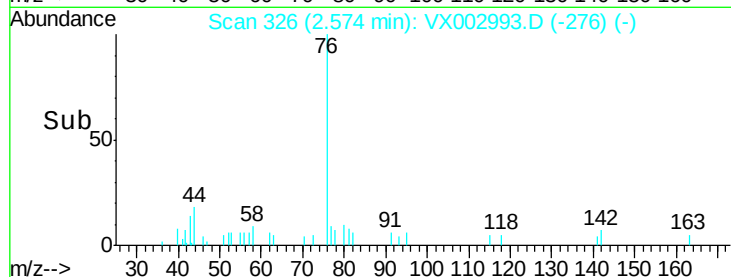
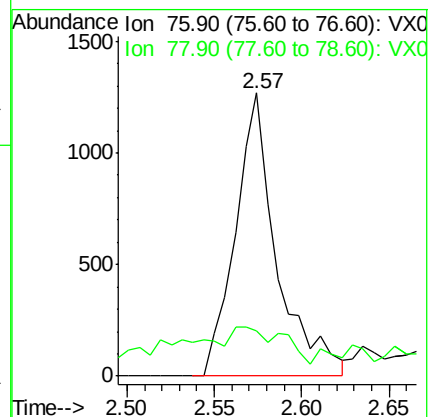
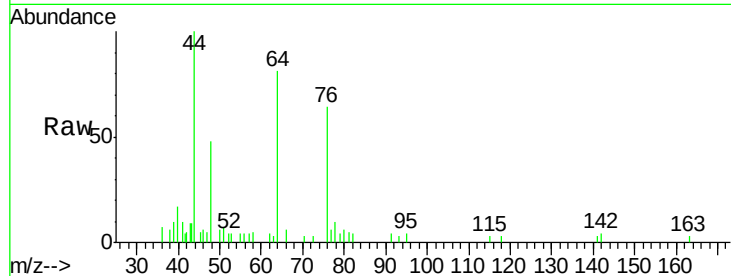
N48969

Tot Ion: 76 Resp: 2091

Ion Ratio Lower Upper

76 100

78 9.7 6.9 10.3



#18

Methyl Acetate

Concen: 2.81 ug/l

RT: 2.62 min Scan# 334

Delta R.T. -0.16 min

Lab File: VX002993.D

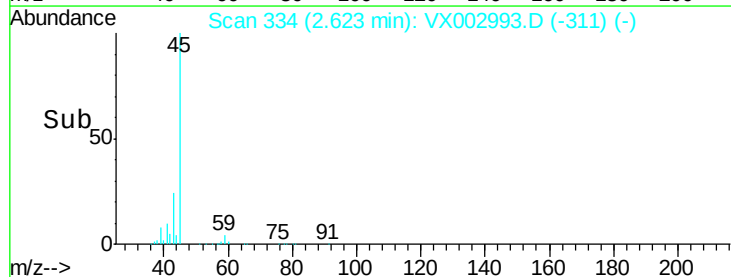
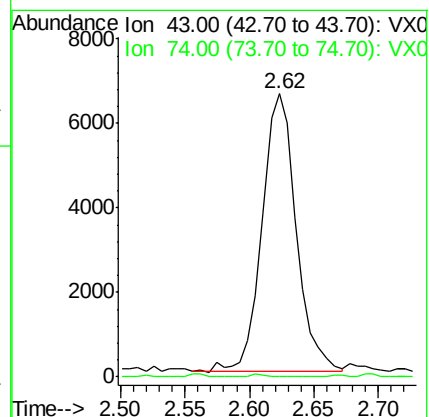
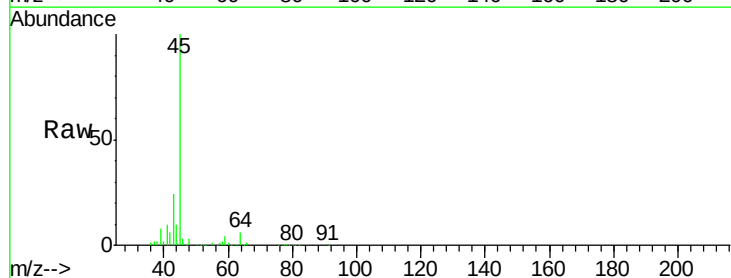
Acq: 28 Jun 2018 18:47

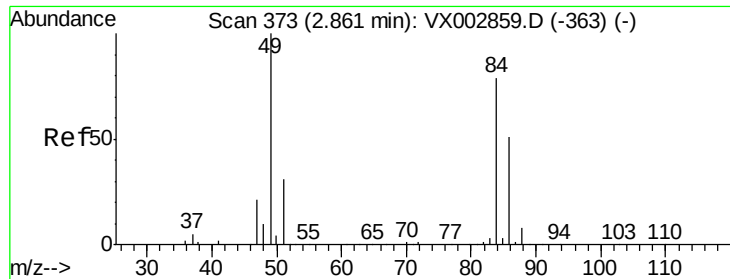
Tgt Ion: 43 Resp: 11998

Ion Ratio Lower Upper

43 100

74 0.4 16.7 25.1#

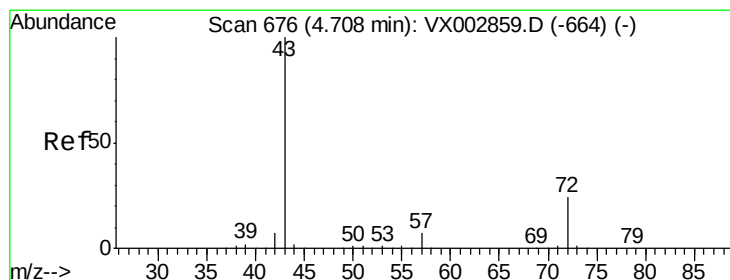
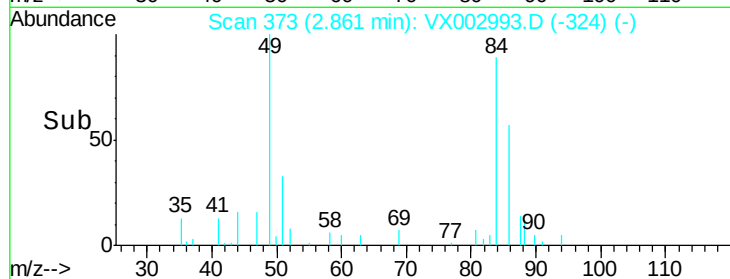
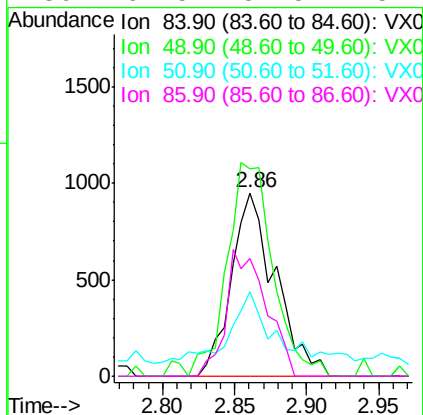
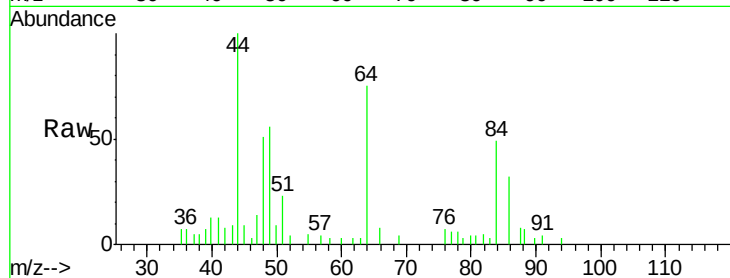




#20
Methylene Chloride
Concen: 0.68 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

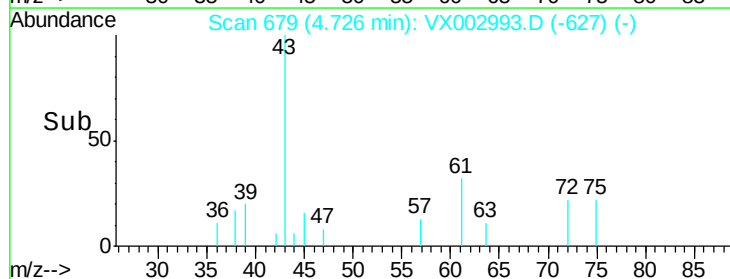
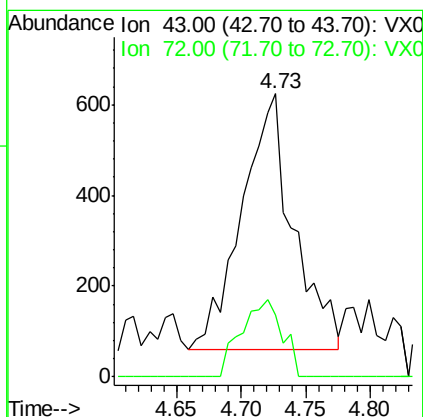
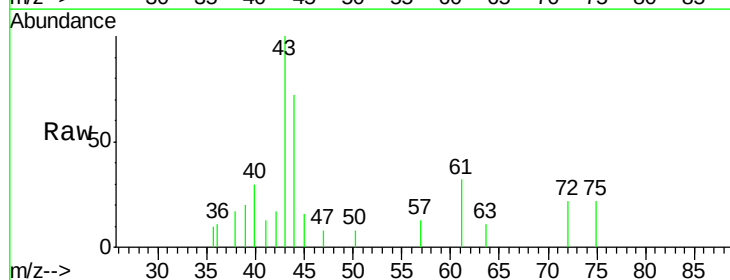
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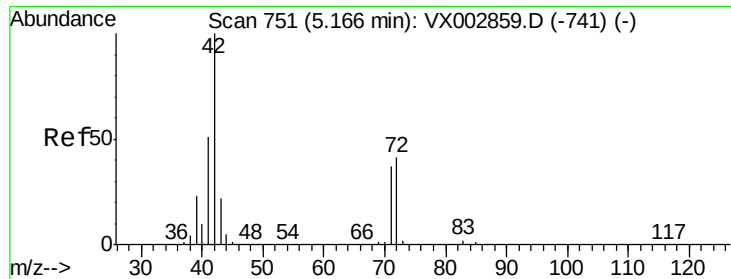
Tot Ion:	84	Resp:	2016
Ion	Ratio	Lower	Upper
84	100		
49	112.8	107.8	161.6
51	33.4	32.8	49.2
86	64.5	52.5	78.7



#25
2-Butanone
Concen: 0.70 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.02 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Tgt Ion:	43	Resp:	1578
Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.5	27.7





#29

Tetrahydrofuran

Concen: 11.46 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

N48969

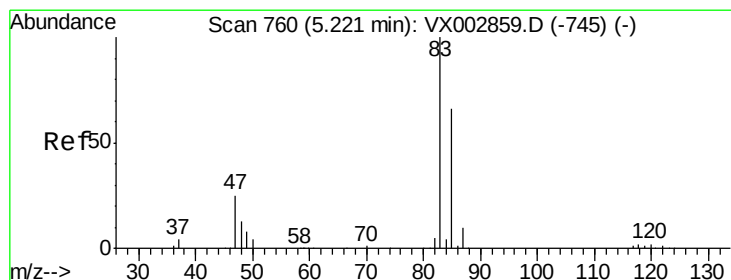
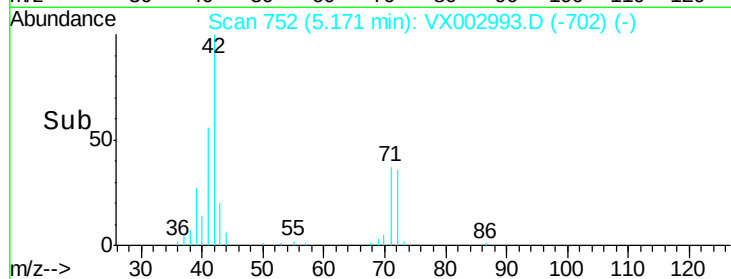
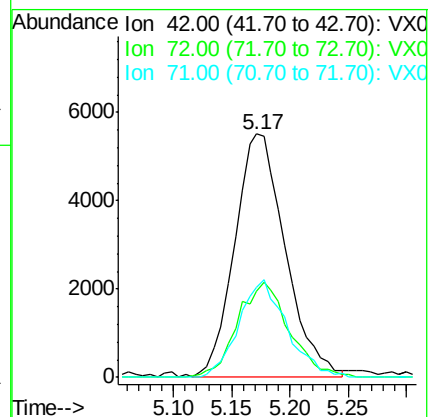
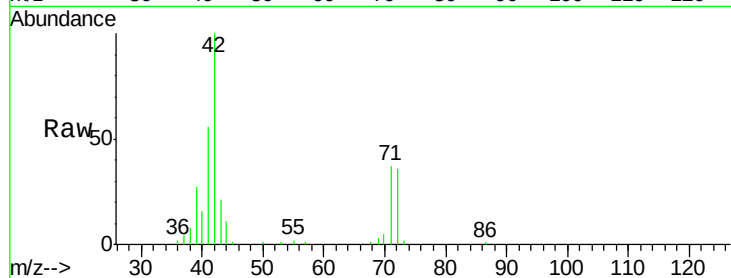
Tot Ion: 42 Resp: 16684

Ion Ratio Lower Upper

42 100

72 39.9 32.0 48.0

71 38.1 30.1 45.1



#30

Chloroform

Concen: 0.21 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX002993.D

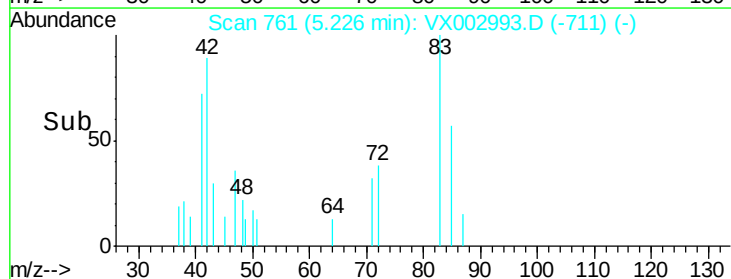
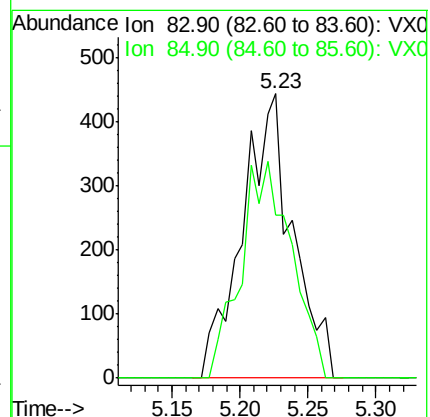
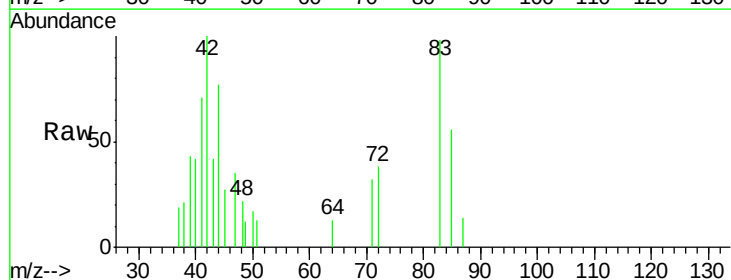
Acq: 28 Jun 2018 18:47

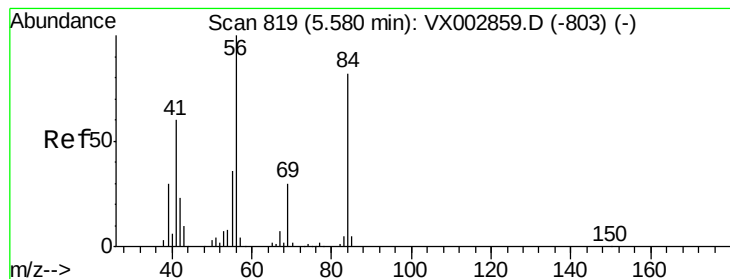
Tgt Ion: 83 Resp: 1145

Ion Ratio Lower Upper

83 100

85 57.1 50.4 75.6





#31

Cyclohexane

Concen: 1.14 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

N48969

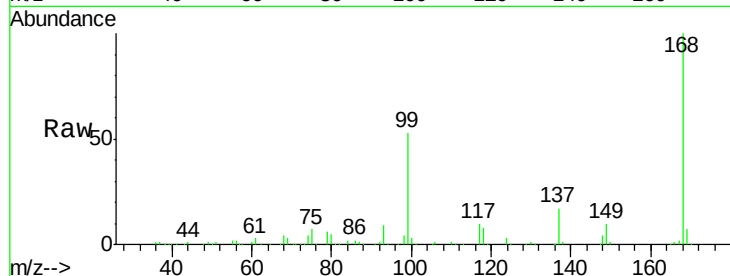
Tot Ion: 56 Resp: 5282

Ion Ratio Lower Upper

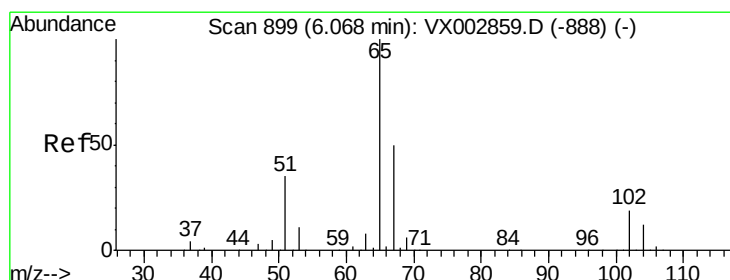
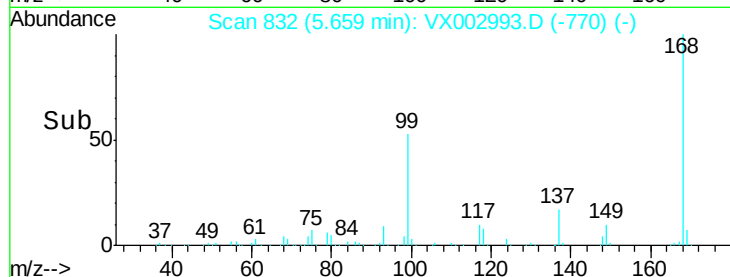
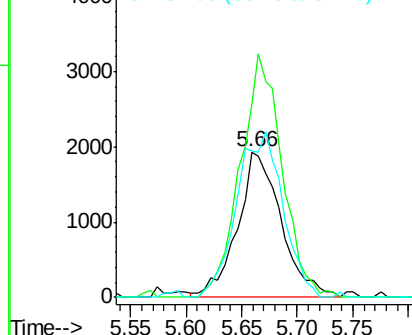
56 100

69 133.7 23.7 35.5#

84 100.8 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.58 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002993.D

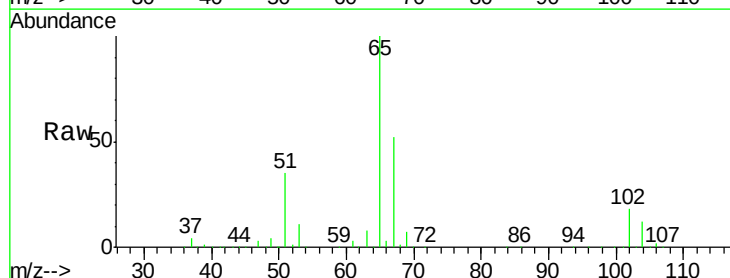
Acq: 28 Jun 2018 18:47

Tgt Ion: 65 Resp: 179402

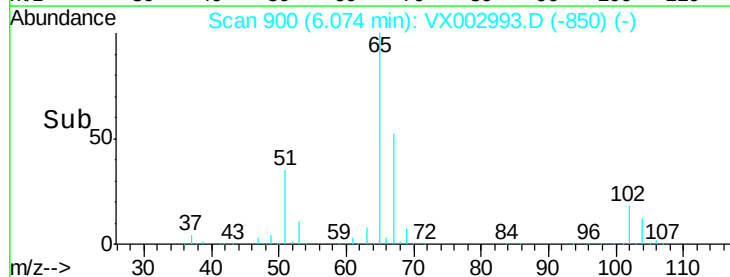
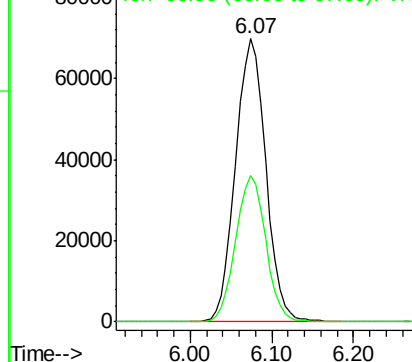
Ion Ratio Lower Upper

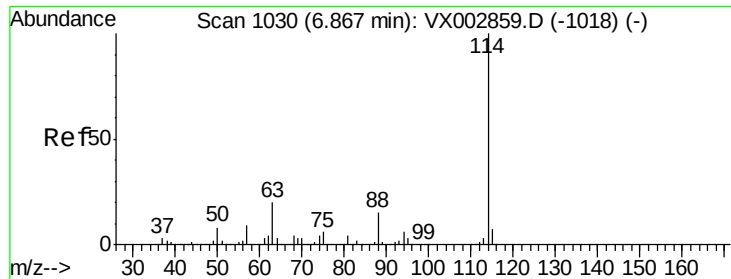
65 100

67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

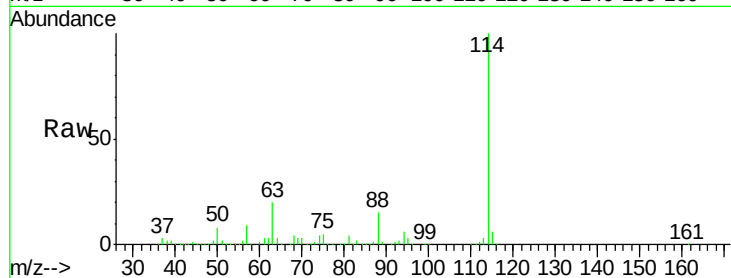




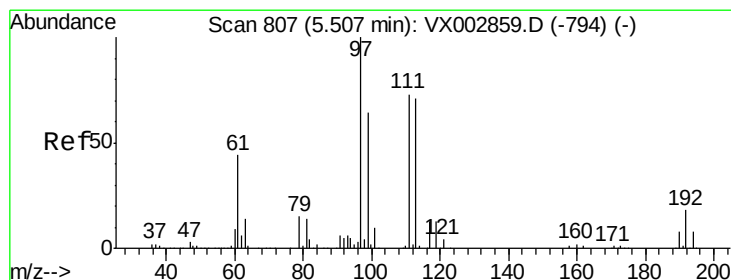
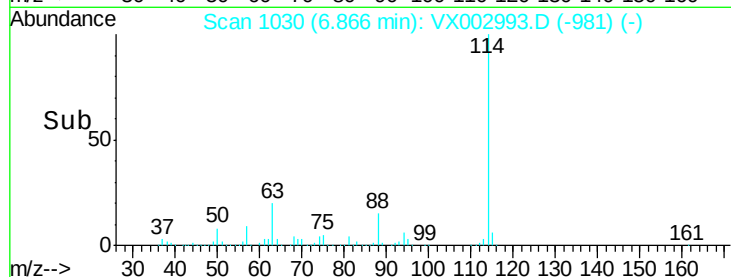
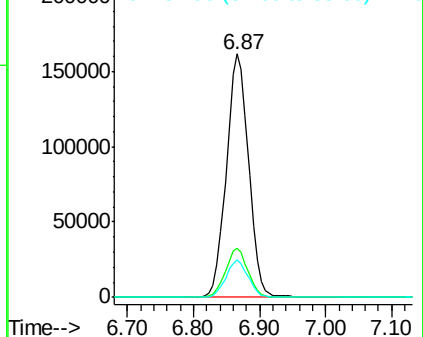
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Instrument :
MSVOA_X
ClientSampleId :
N48969

Tot Ion:114 Resp: 376129
Ion Ratio Lower Upper
114 100
63 20.1 0.0 41.4
88 15.3 0.0 30.0

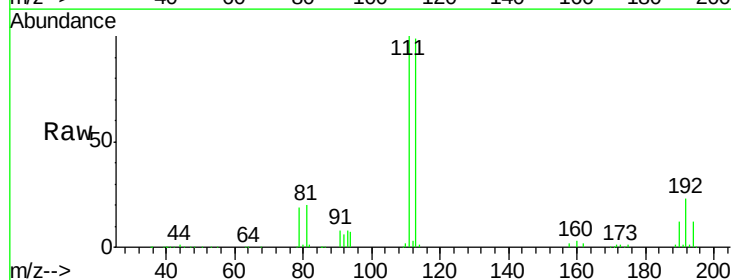


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

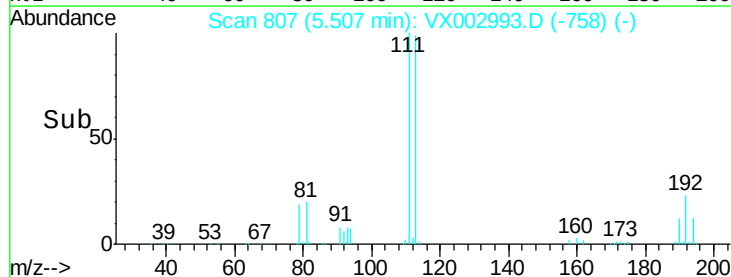
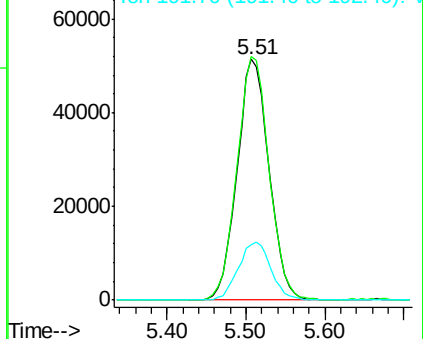


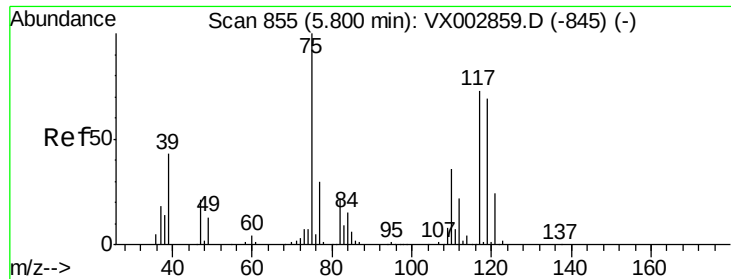
#35
Dibromofluoromethane
Concen: 48.54 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Tgt Ion:113 Resp: 144595
Ion Ratio Lower Upper
113 100
111 101.6 81.4 122.0
192 24.7 19.1 28.7



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

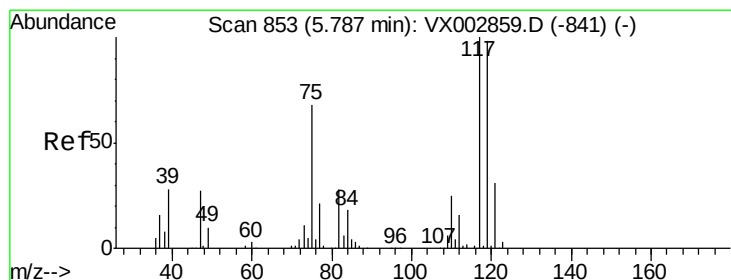
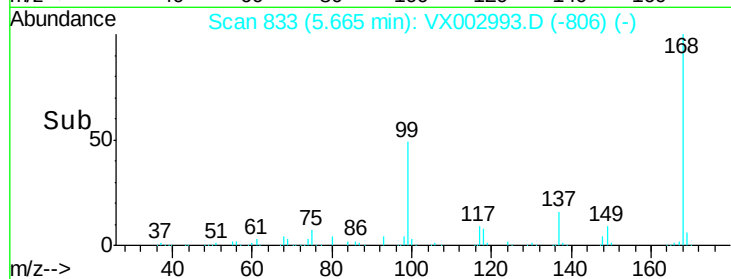
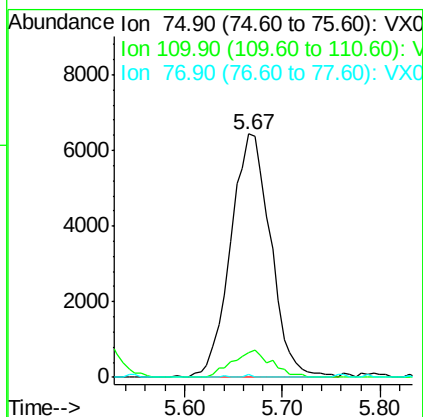
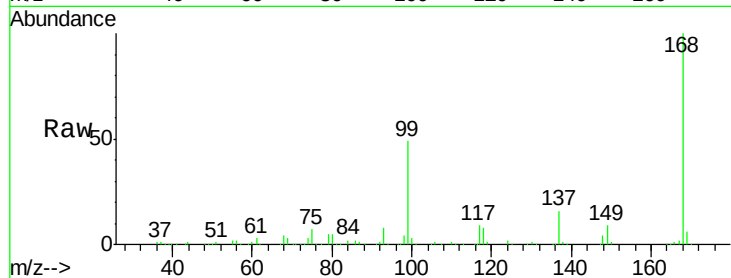




#36
 1,1-Dichloropropene
 Concen: 4.43 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002993.D
 Acq: 28 Jun 2018 18:47

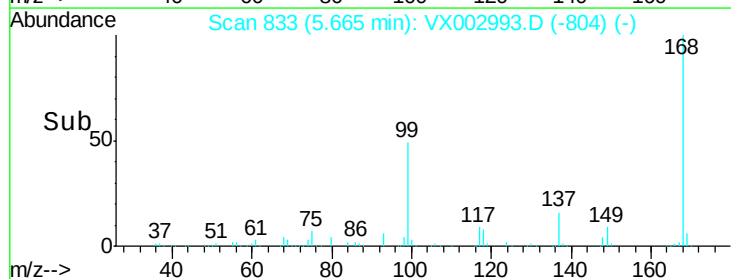
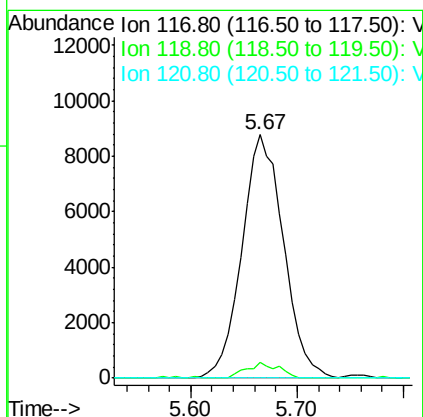
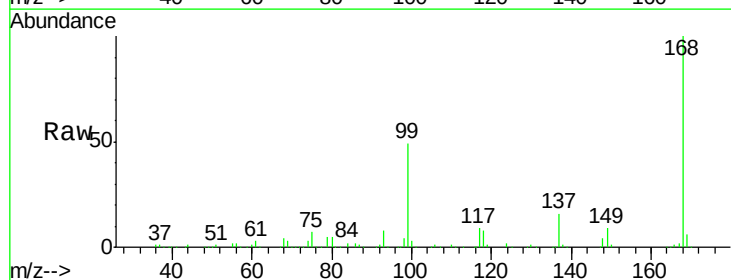
Instrument :
 MSVOA_X
 ClientSampleId :
 N48969

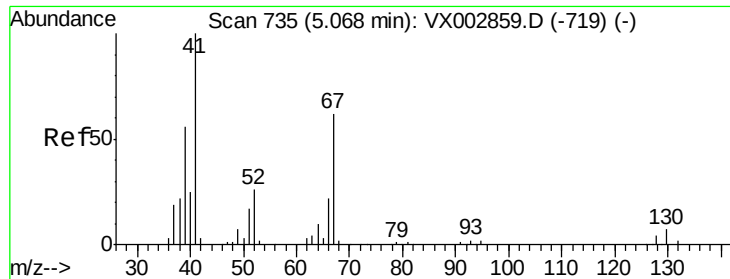
Tot Ion: 75 Resp: 18280
 Ion Ratio Lower Upper
 75 100
 110 11.0 18.1 54.4#
 77 0.1 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.30 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002993.D
 Acq: 28 Jun 2018 18:47

Tgt Ion: 117 Resp: 24010
 Ion Ratio Lower Upper
 117 100
 119 6.4 77.4 116.0#
 121 0.0 24.4 36.6#

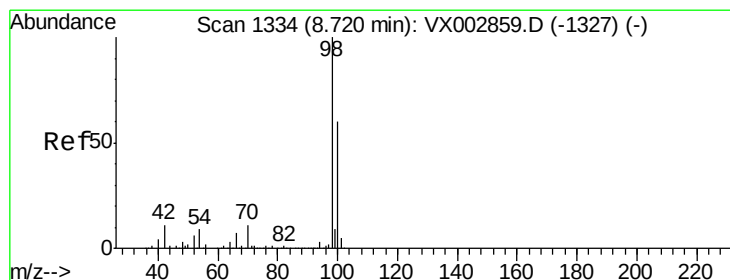
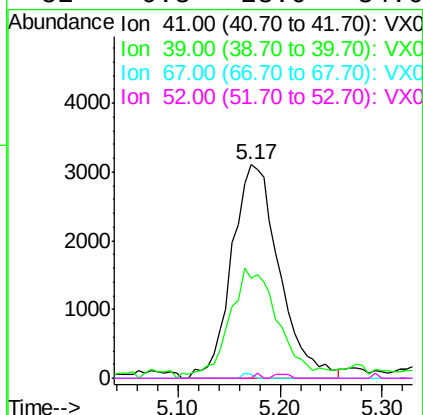
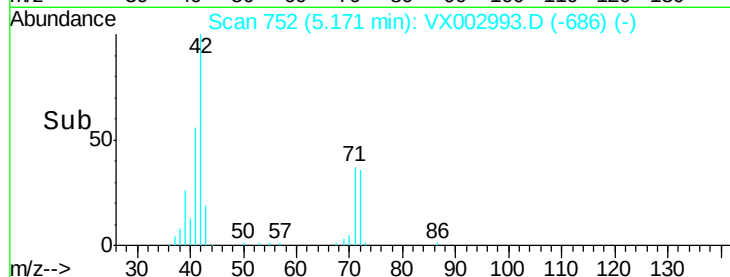
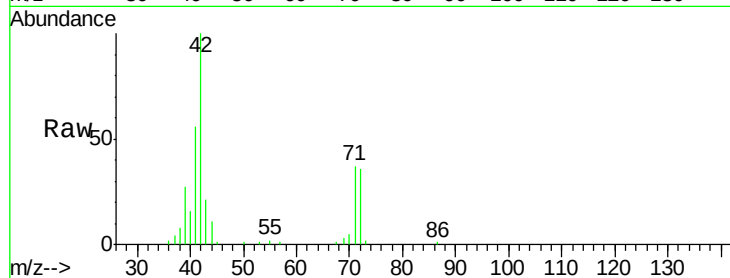




#41
Methacrylonitrile
Concen: 3.93 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.10 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

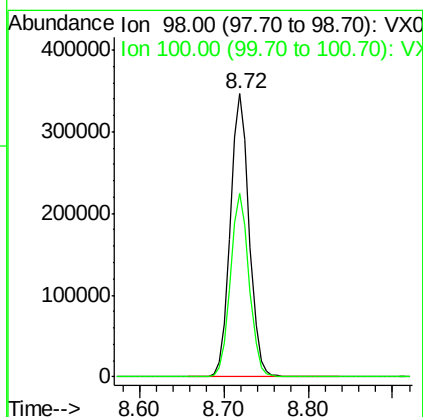
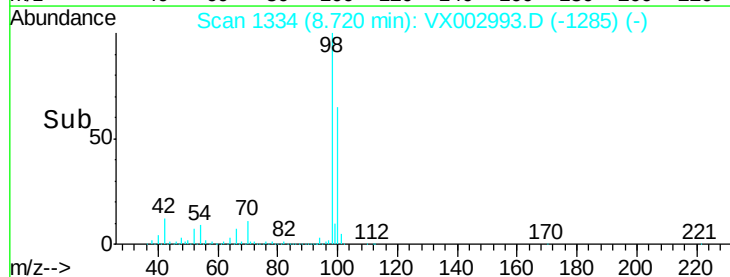
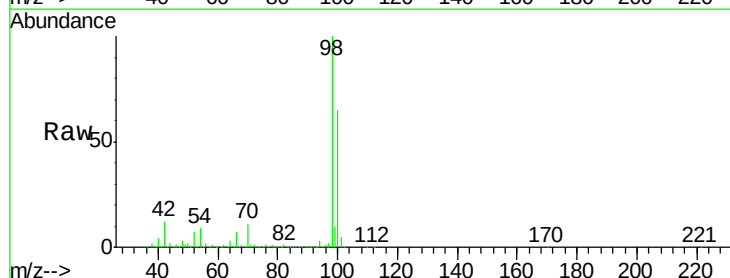
Instrument :
MSVOA_X
ClientSampled :
N48969

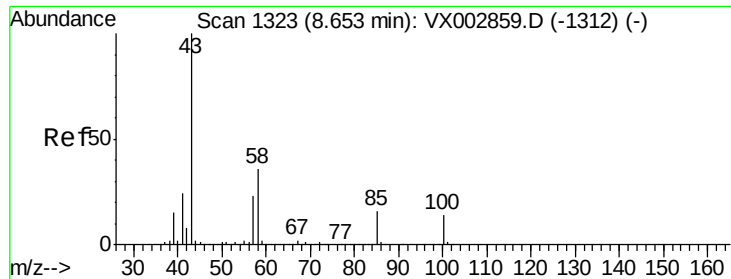
Tot Ion: 41 Resp: 10043
Ion Ratio Lower Upper
41 100
39 53.5 45.8 68.6
67 0.5 51.3 76.9#
52 0.3 23.0 34.6#



#50
Toluene-d8
Concen: 48.60 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Tgt Ion: 98 Resp: 528585
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3

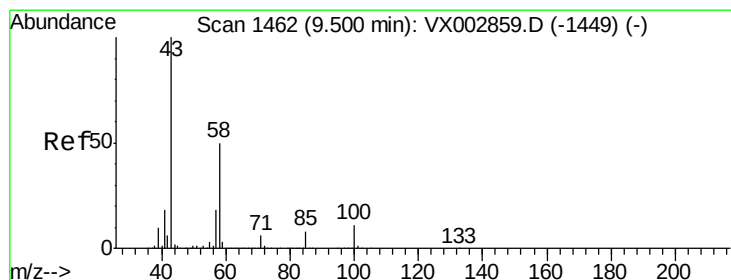
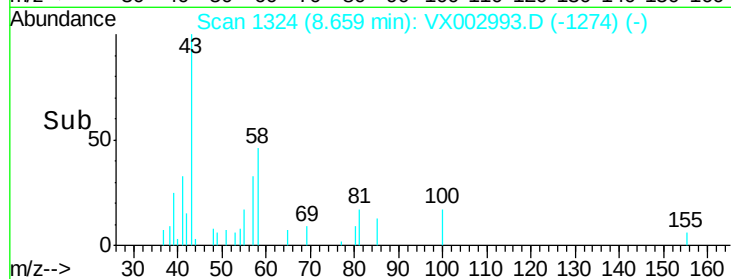
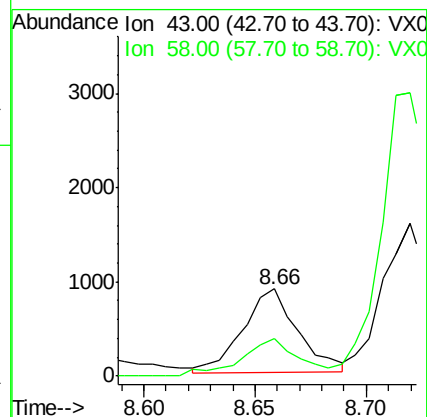
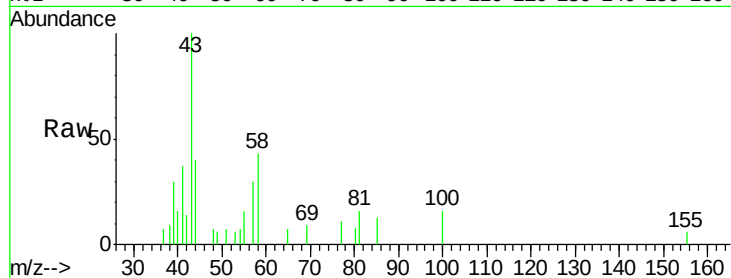




#51
4-Methyl-2-Pentanone
Concen: 0.32 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

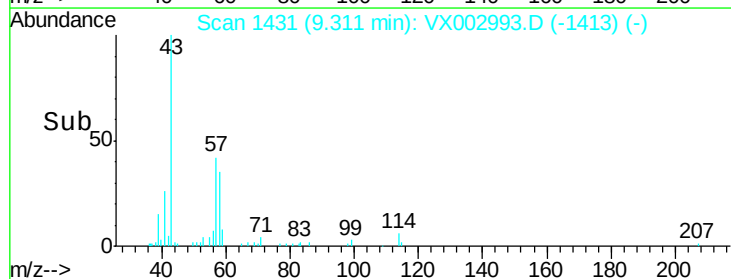
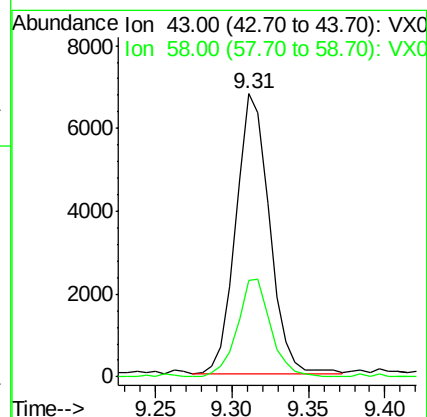
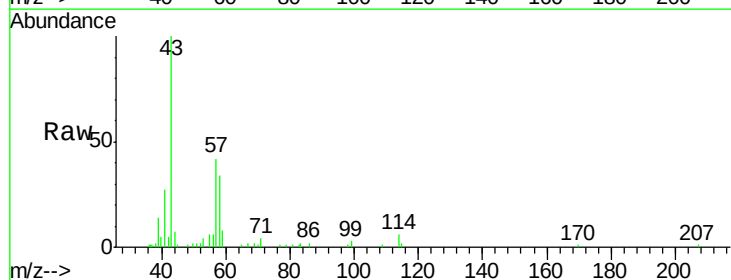
Instrument :
MSVOA_X
ClientSampled :
N48969

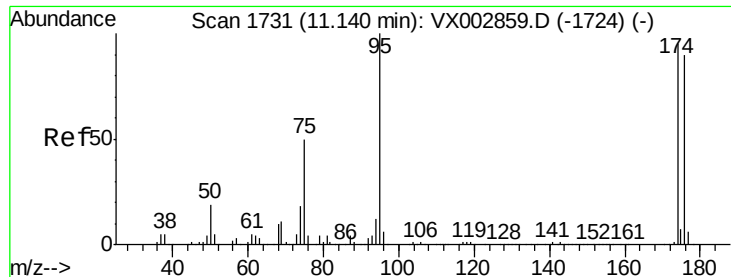
Tot Ion: 43 Resp: 1510
Ion Ratio Lower Upper
43 100
58 47.5 28.6 42.8#



#59
2-Hexanone
Concen: 2.91 ug/l
RT: 9.31 min Scan# 1431
Delta R.T. -0.19 min
Lab File: VX002993.D
Acq: 28 Jun 2018 18:47

Tgt Ion: 43 Resp: 10298
Ion Ratio Lower Upper
43 100
58 34.9 24.6 73.6

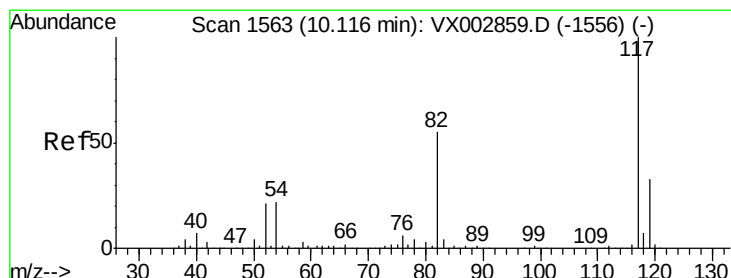
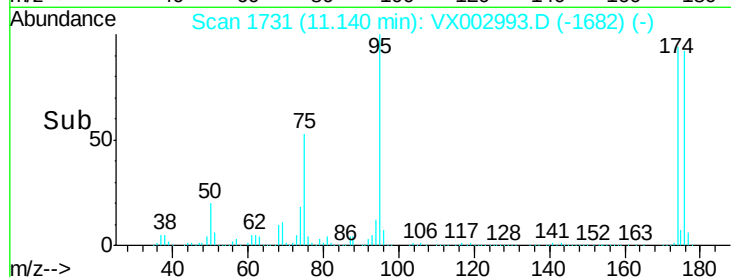
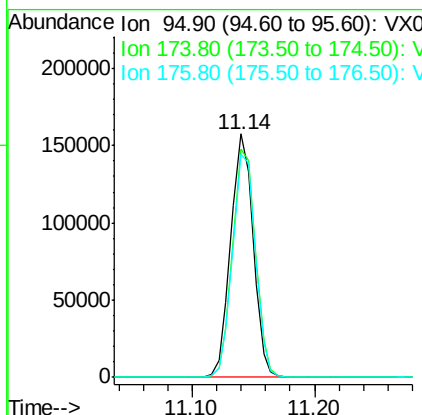
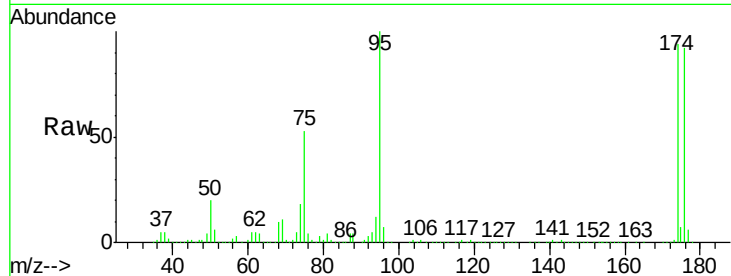




#62
 4-Bromofluorobenzene
 Concen: 47.38 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX002993.D
 Acq: 28 Jun 2018 18:47

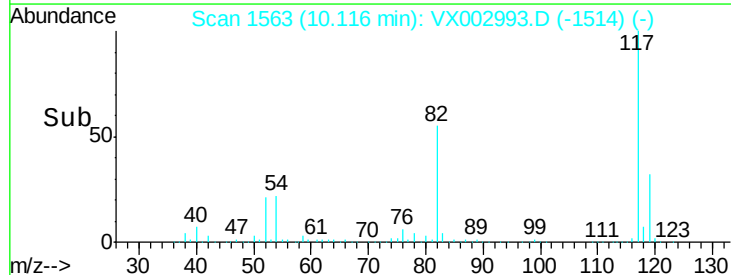
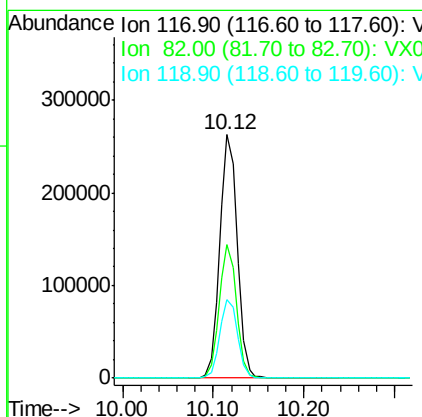
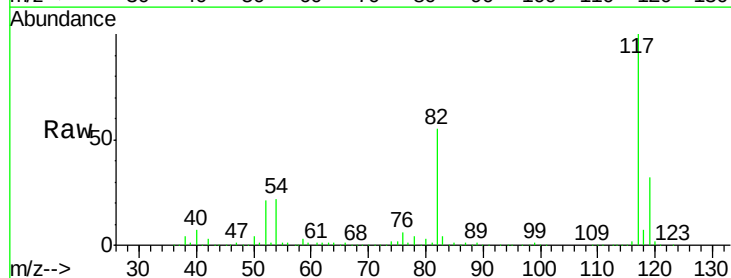
Instrument :
 MSVOA_X
 ClientSampled :
 N48969

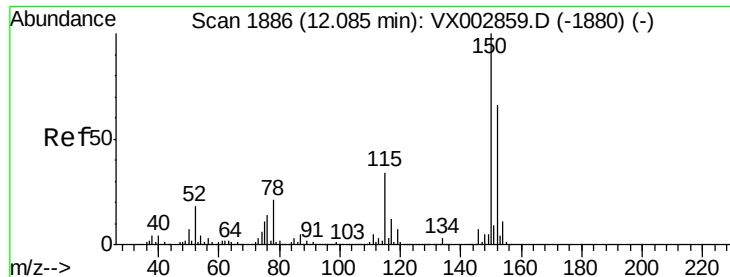
Tot Ion: 95 Resp: 198745
 Ion Ratio Lower Upper
 95 100
 174 96.6 0.0 187.4
 176 93.6 0.0 181.0



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VX002993.D
 Acq: 28 Jun 2018 18:47

Tgt Ion: 117 Resp: 354655
 Ion Ratio Lower Upper
 117 100
 82 55.0 45.0 67.4
 119 32.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

N48969

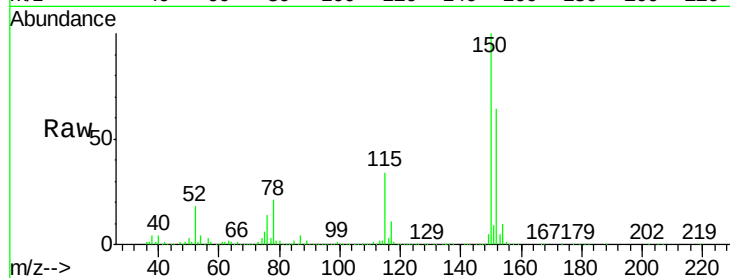
Tot Ion:152 Resp: 213963

Ion Ratio Lower Upper

152 100

115 53.5 40.1 120.2

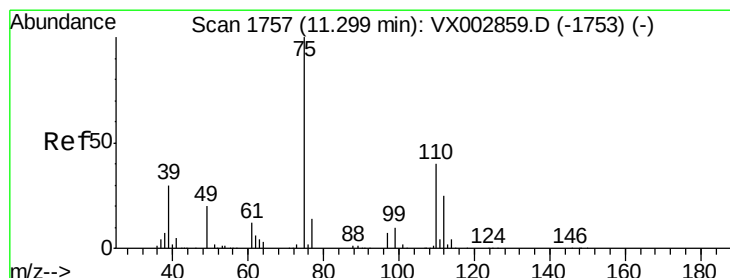
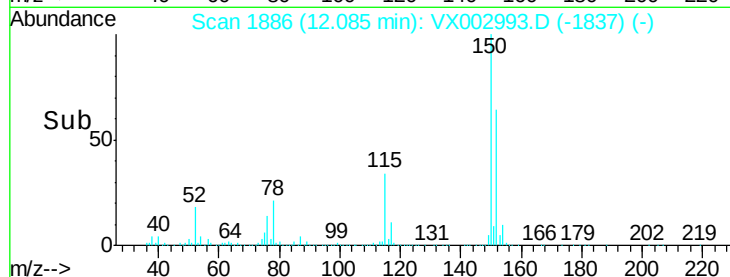
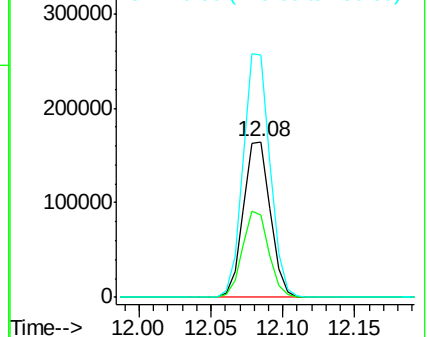
150 155.3 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 26.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002993.D

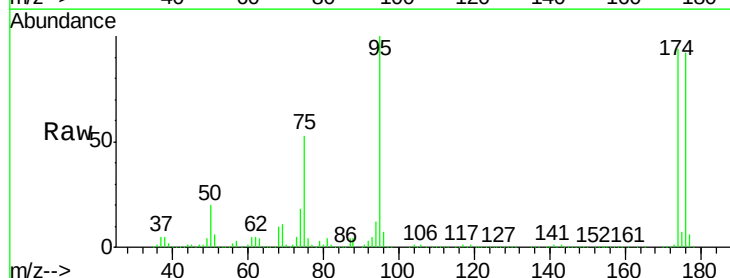
Acq: 28 Jun 2018 18:47

Tgt Ion: 75 Resp: 102123

Ion Ratio Lower Upper

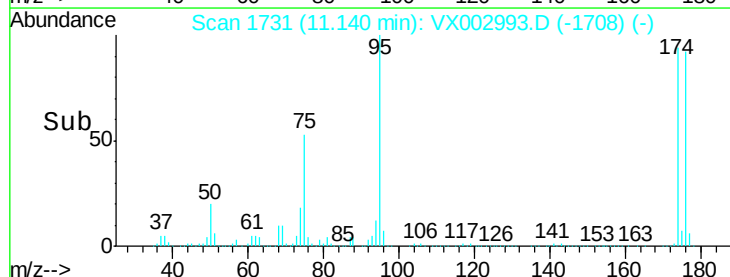
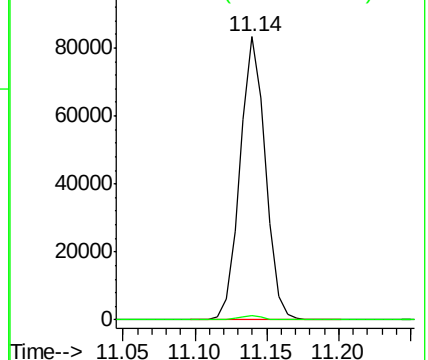
75 100

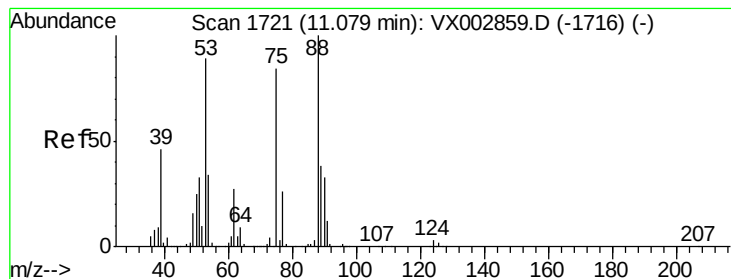
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002993.D

Acq: 28 Jun 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

N48969

Tot Ion: 75 Resp: 102123

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

