

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002331.D
 Acq On : 06 Jun 2018 03:30
 Operator : JC/MD
 Sample : J3308-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:40:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	309825	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	156103	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	149890	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	5.51	113	108513	44.54	ug/l	0.00
Spiked Amount			Recovery	=	89.08%	
50) Toluene-d8	8.72	98	443663	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	11.14	95	150850	41.89	ug/l	0.00
Spiked Amount			Recovery	=	83.78%	

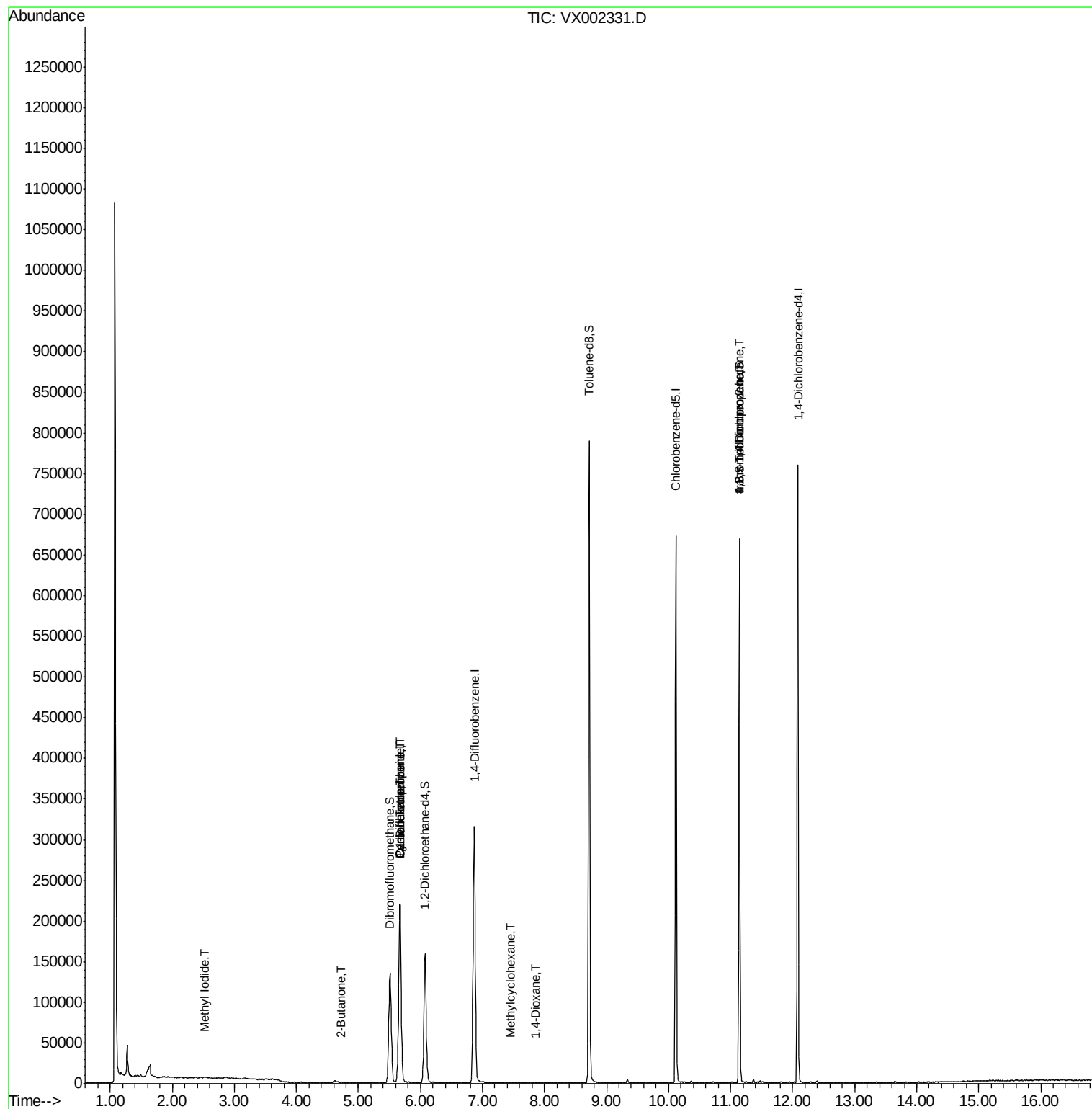
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	617	Below Cal	#	86
5) Bromomethane	1.64	94	2046	Below Cal	#	93
8) Diethyl Ether	2.23	74	43	Below Cal	#	3
10) Methyl Iodide	2.53	142	1566	0.47	ug/l	97
11) Tert butyl alcohol	3.08	59	442	Below Cal	#	31
13) Acrolein	2.29	56	175	Below Cal	#	14
15) Acrylonitrile	3.16	53	354	Below Cal	#	17
16) Acetone	2.45	43	1302	Below Cal	#	72
18) Methyl Acetate	2.78	43	218	Below Cal	#	96
19) Methyl tert-butyl Ether	3.21	73	78	Below Cal	#	1
20) Methylene Chloride	2.86	84	617	Below Cal	#	69
22) Diisopropyl ether	3.88	45	131	Below Cal	#	69
25) 2-Butanone	4.71	43	491	0.23	ug/l	52
28) Bromochloromethane	5.04	49	70	Below Cal	#	13
31) Cyclohexane	5.67	56	4985	1.26	ug/l	15
36) 1,1-Dichloropropene	5.67	75	15621	4.80	ug/l	51
38) Carbon Tetrachloride	5.67	117	19842	5.82	ug/l	16
39) Methylcyclohexane	7.46	83	27	0.27	ug/l	39
49) 1,4-Dioxane	7.87	88	18	0.29	ug/l	1
76) 1,2,3-Trichloropropane	11.14	75	81461	23.78	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81461	83.36	ug/l	6

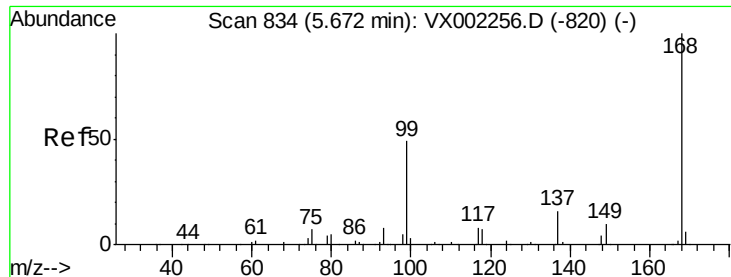
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

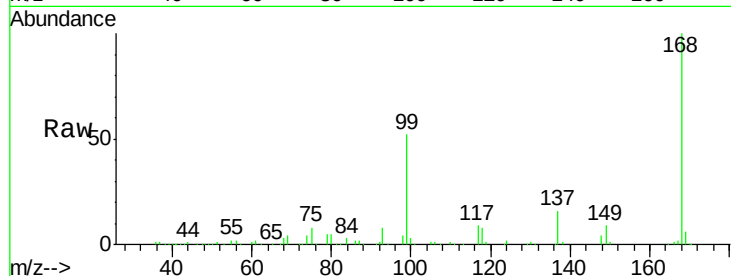
ClientSampleId :

Tot Ion:168 Resp: 218265

Ion Ratio Lower Upper

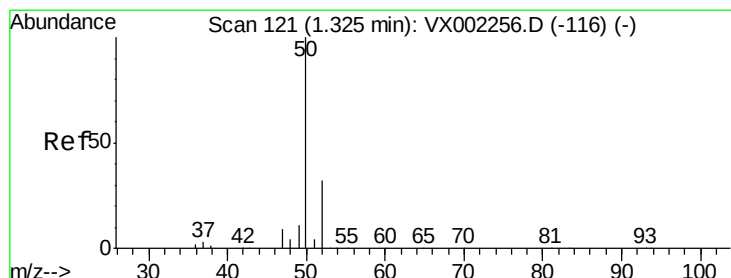
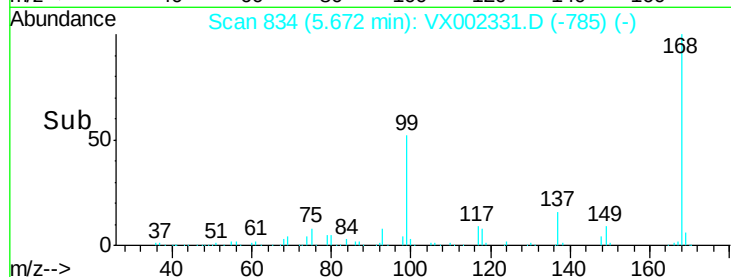
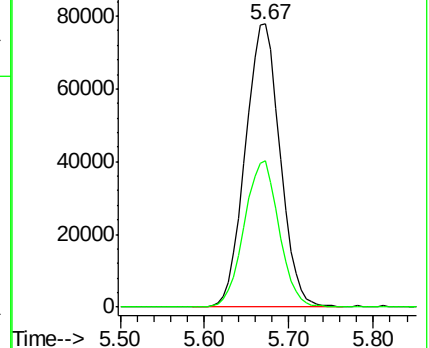
168 100

99 51.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002331.D

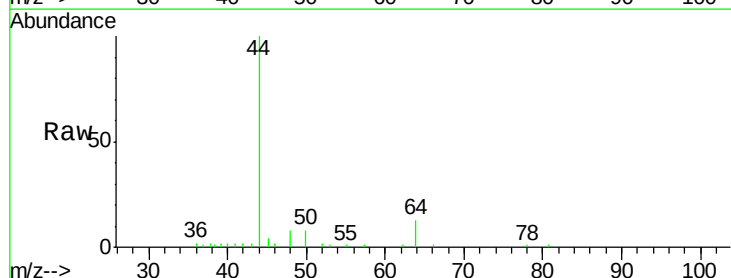
Acq: 06 Jun 2018 03:30

Tgt Ion: 50 Resp: 617

Ion Ratio Lower Upper

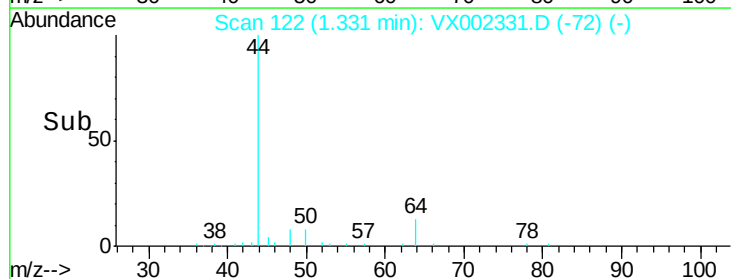
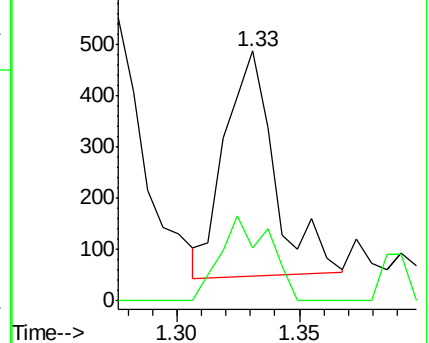
50 100

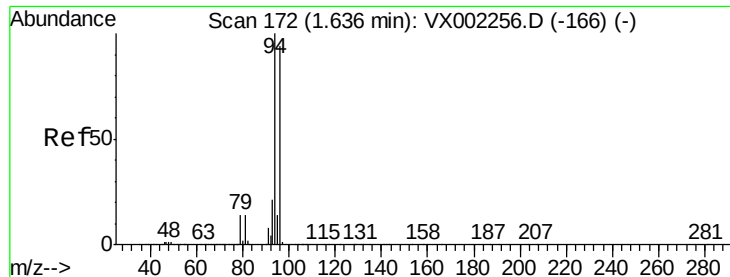
52 24.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

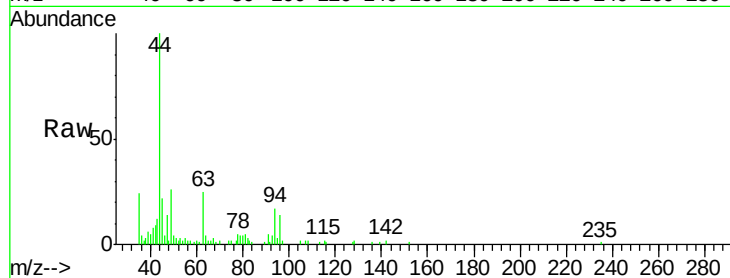
ClientSampled :

Tot Ion: 94 Resp: 2046

Ion Ratio Lower Upper

94 100

96 86.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

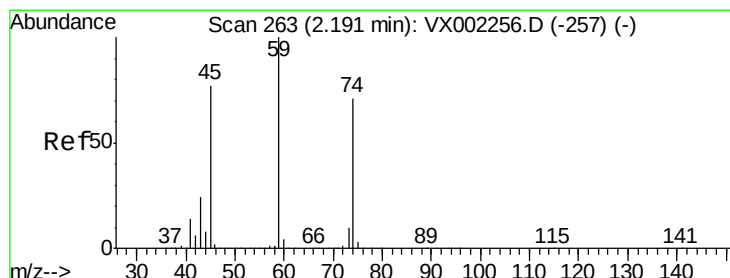
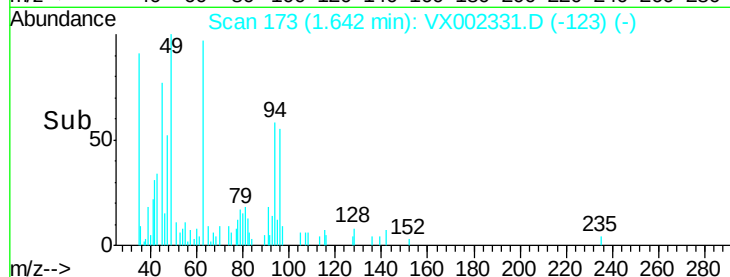
600

400

200

0

Time--> 1.50 1.60 1.70



#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 270

Delta R.T. 0.04 min

Lab File: VX002331.D

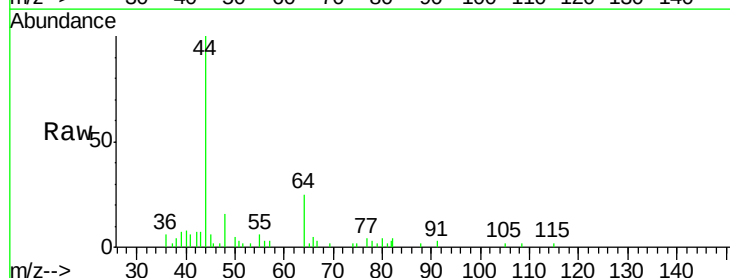
Acq: 06 Jun 2018 03:30

Tgt Ion: 74 Resp: 43

Ion Ratio Lower Upper

74 100

45 207.0 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

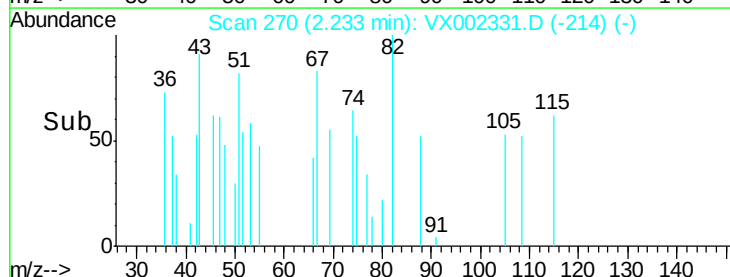
150

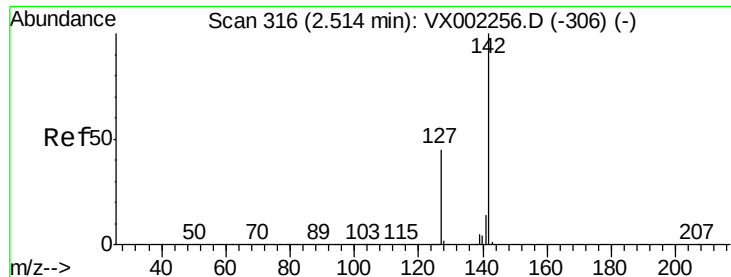
100

50

0

Time--> 2.22 2.24 2.26

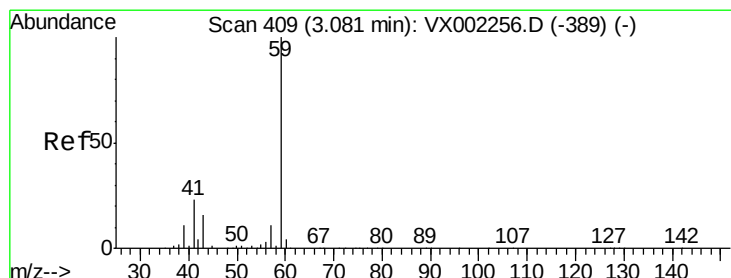
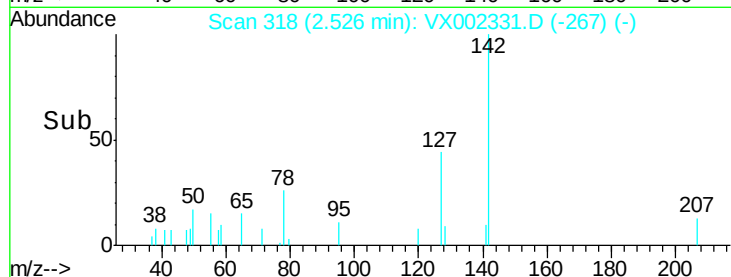
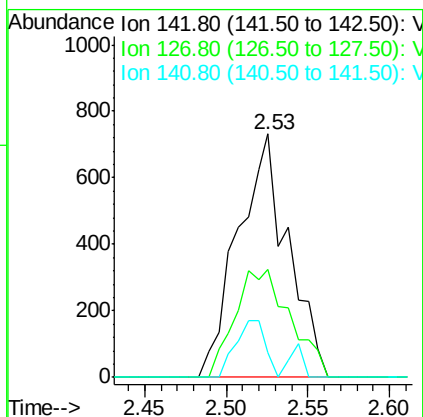
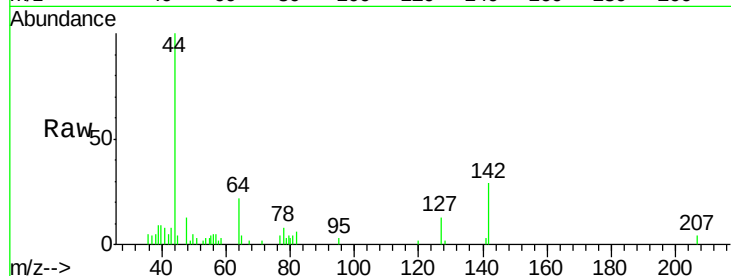




#10
Methyl Iodide
Concen: 0.47 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

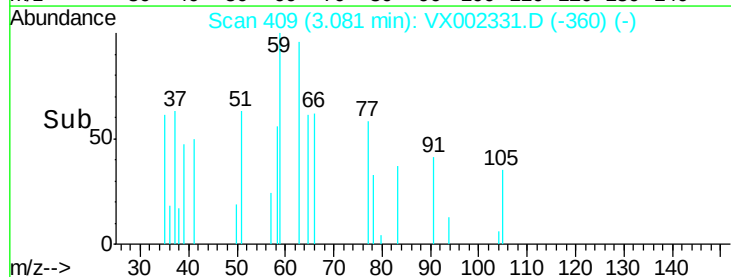
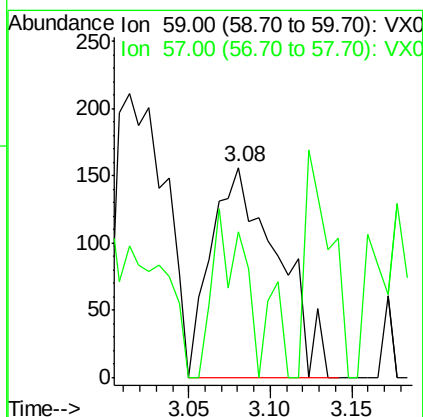
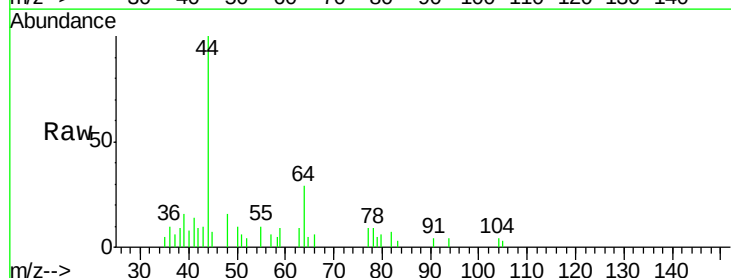
Instrument :
MSVOA_X
ClientSampled :

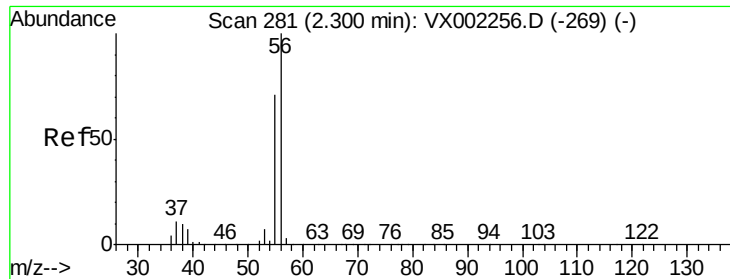
Tot Ion:142 Resp: 1566
Ion Ratio Lower Upper
142 100
127 48.6 36.6 55.0
141 13.9 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

Tgt Ion: 59 Resp: 442
Ion Ratio Lower Upper
59 100
57 36.0 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

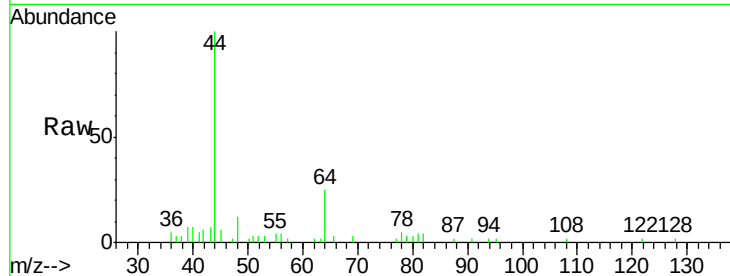
ClientSampleId :

Tot Ion: 56 Resp: 175

Ion Ratio Lower Upper

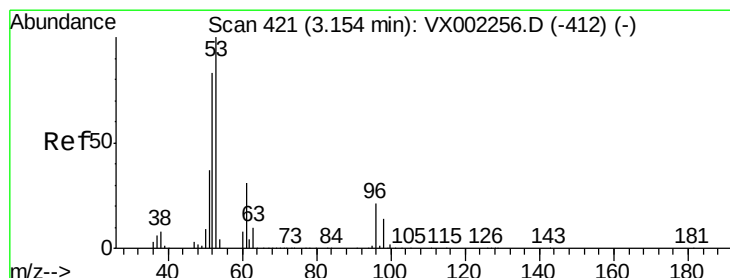
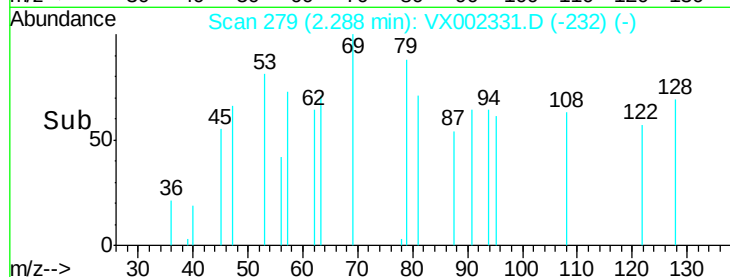
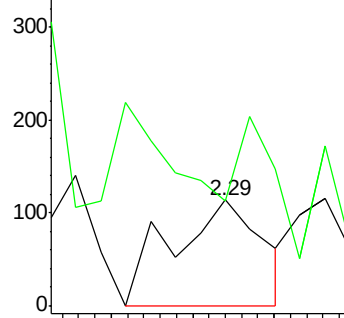
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

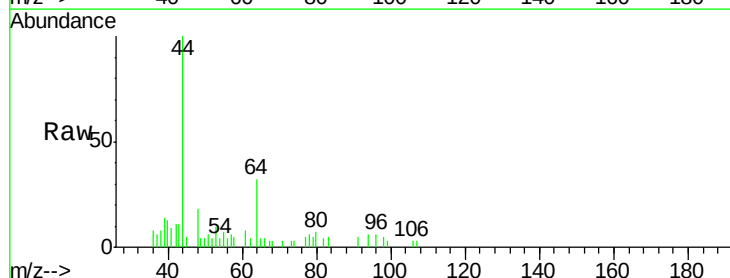
Tgt Ion: 53 Resp: 354

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

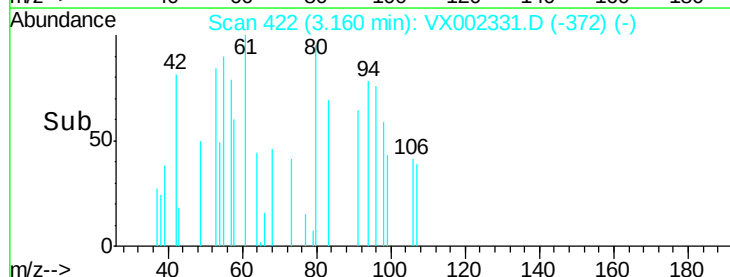
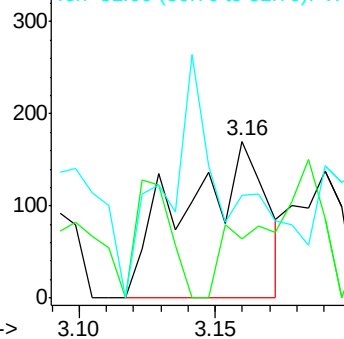
51 0.0 29.9 44.9#

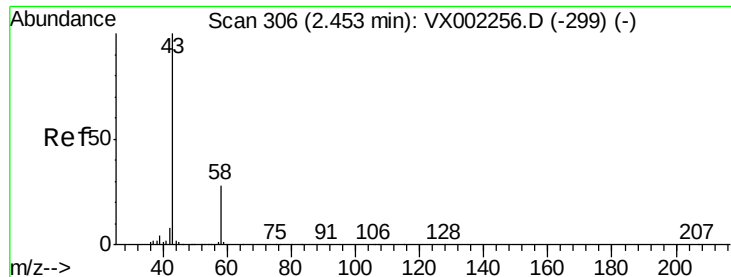


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

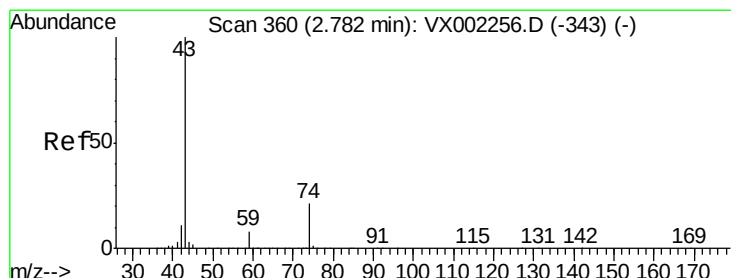
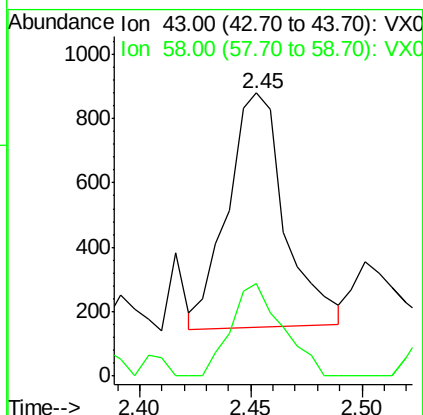
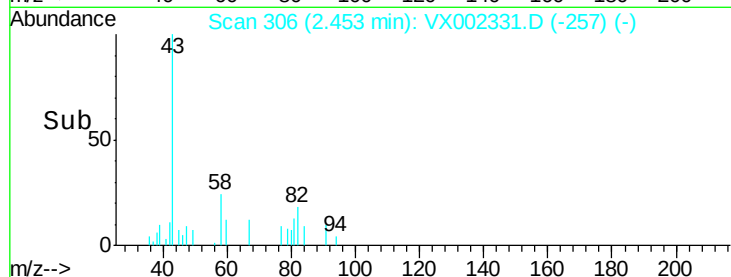
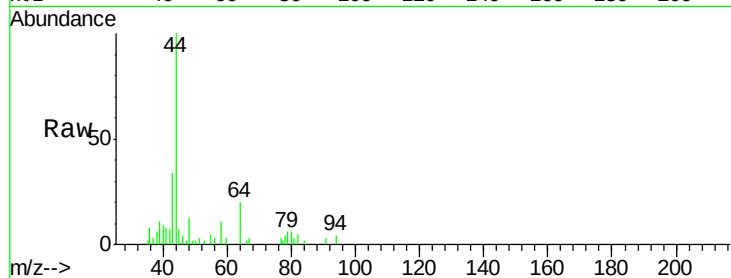
ClientSampleId :

Tot Ion: 43 Resp: 1302

Ion Ratio Lower Upper

43 100

58 42.1 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX002331.D

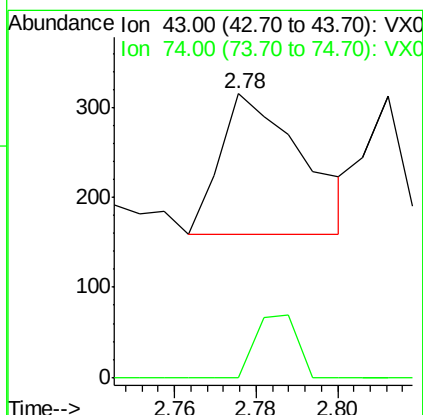
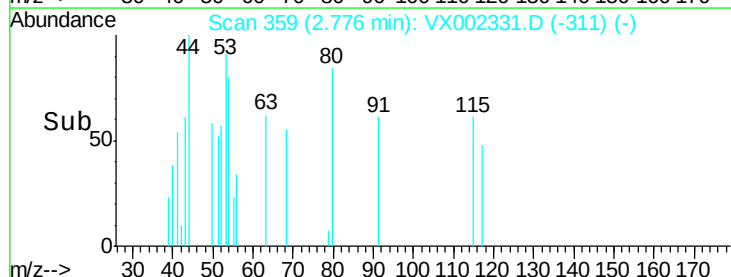
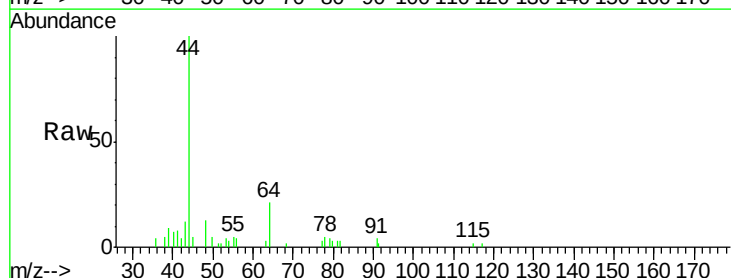
Acq: 06 Jun 2018 03:30

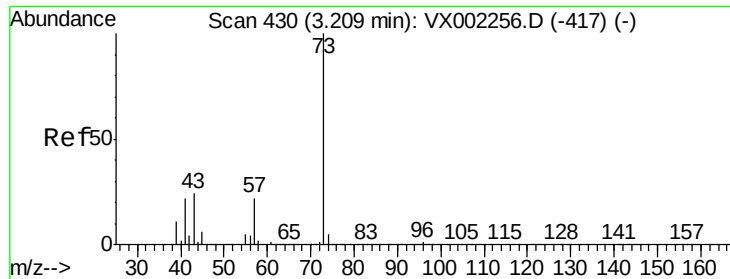
Tgt Ion: 43 Resp: 218

Ion Ratio Lower Upper

43 100

74 22.9 16.7 25.1

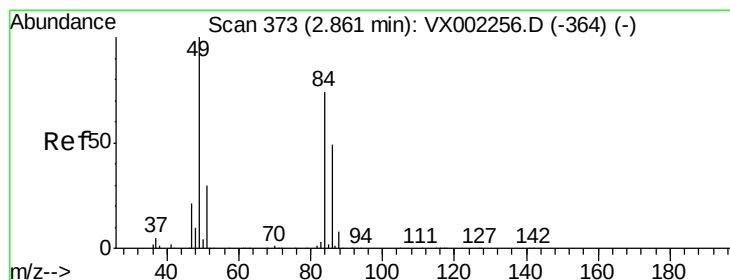
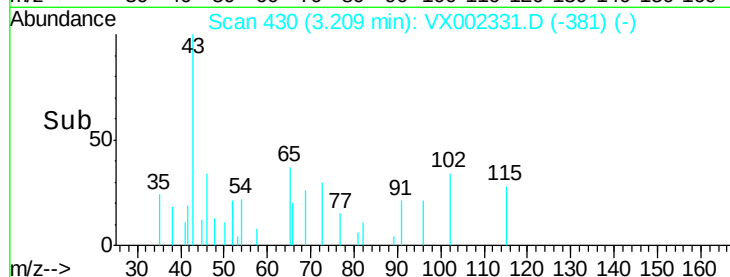
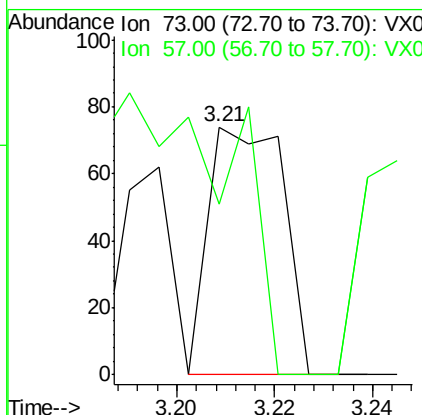
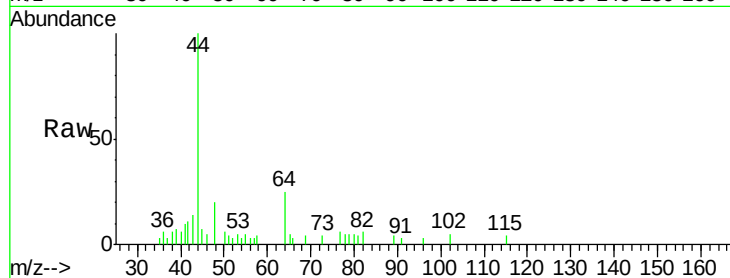




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

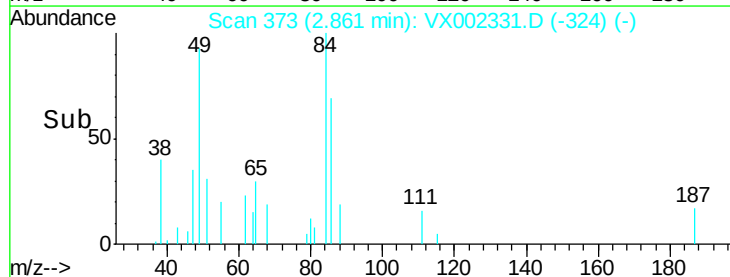
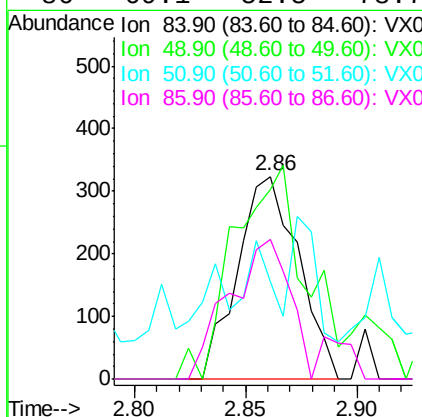
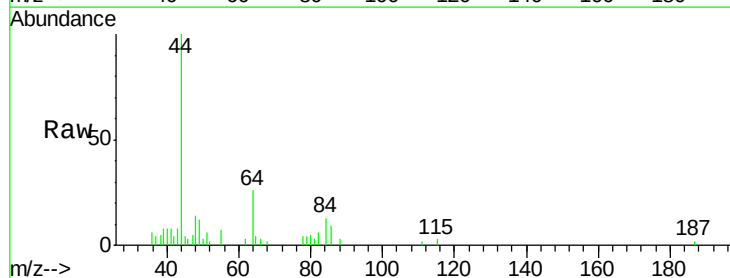
Instrument :
MSVOA_X
ClientSampled :

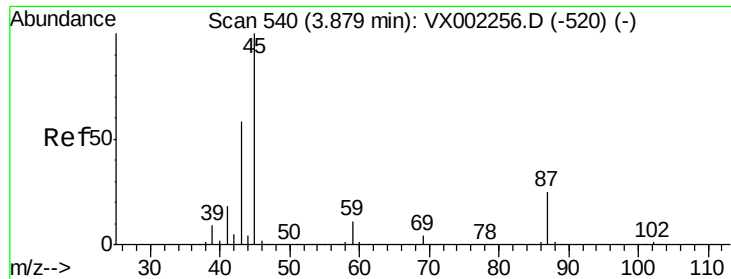
Tot Ion: 73 Resp: 78
Ion Ratio Lower Upper
73 100
57 173.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

Tgt Ion: 84 Resp: 617
Ion Ratio Lower Upper
84 100
49 77.8 107.8 161.6#
51 29.3 32.8 49.2#
86 69.1 52.5 78.7

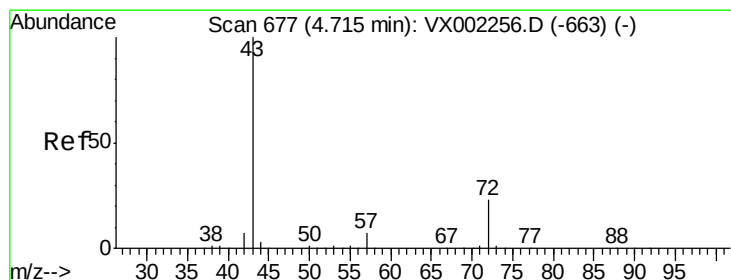
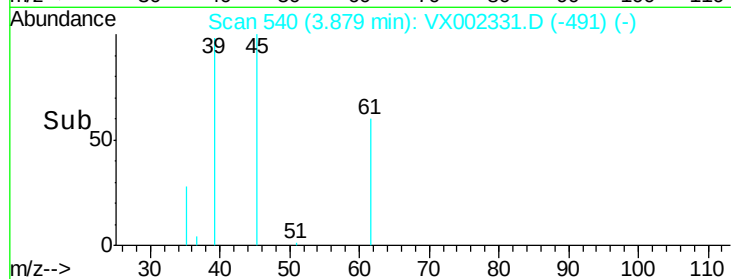
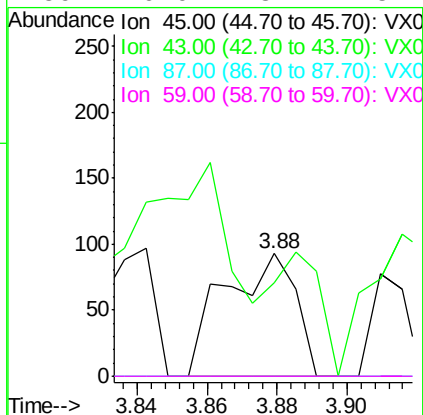
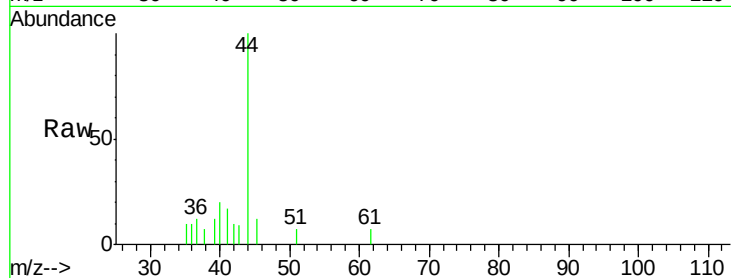




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

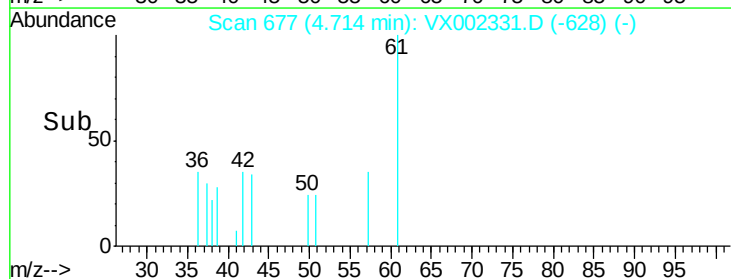
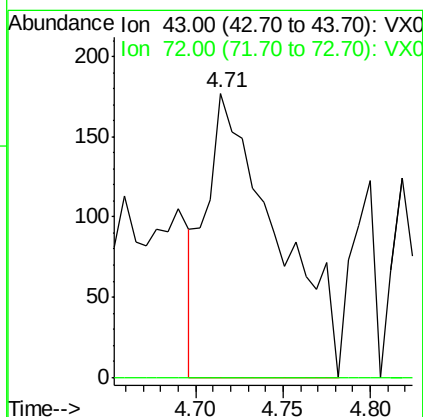
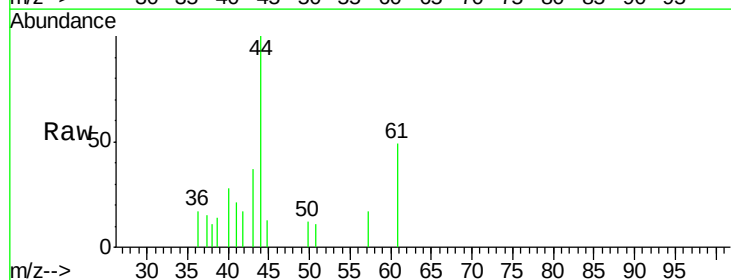
Instrument :
MSVOA_X
ClientSampled :

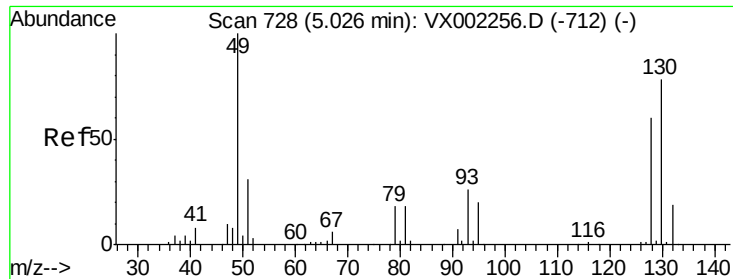
Tot Ion: 45 Resp: 131
Ion Ratio Lower Upper
45 100
43 76.3 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#



#25
2-Butanone
Concen: 0.23 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

Tgt Ion: 43 Resp: 491
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

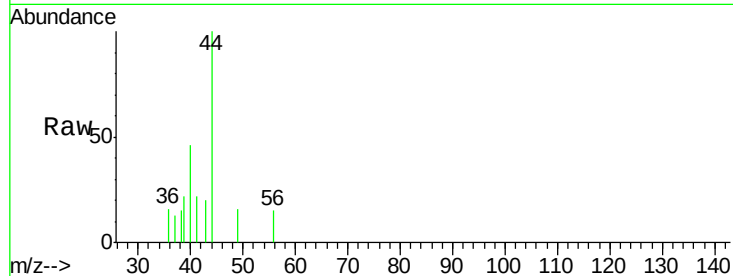
Delta R.T. 0.01 min

Lab File: VX002331.D

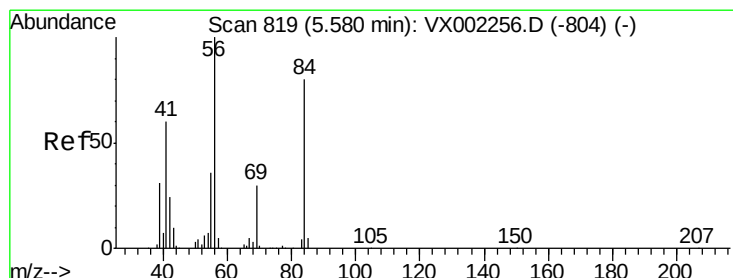
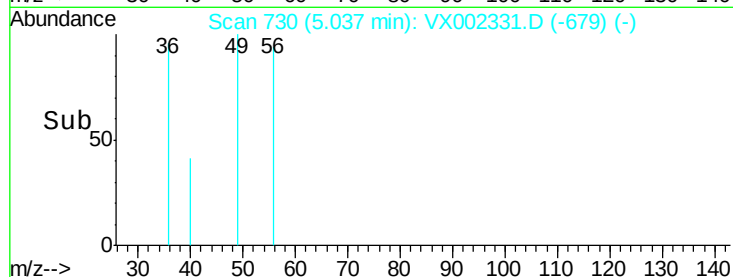
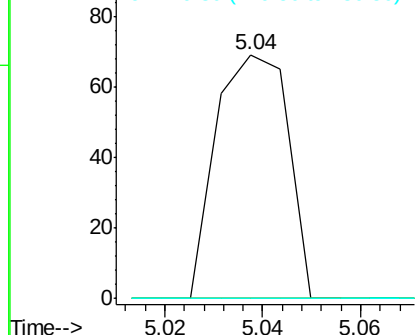
Acq: 06 Jun 2018 03:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 70
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.26 ug/l

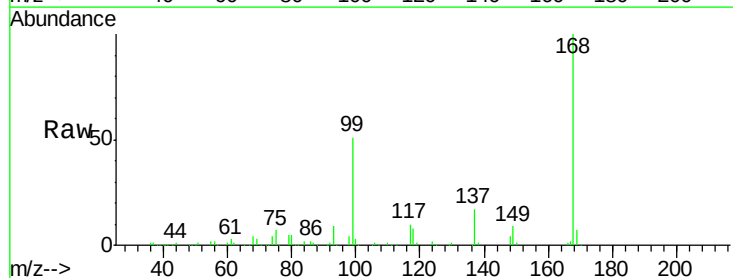
RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

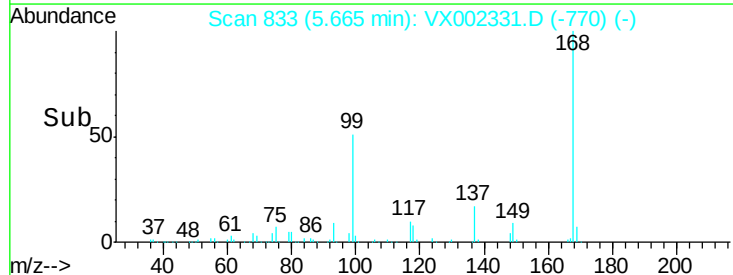
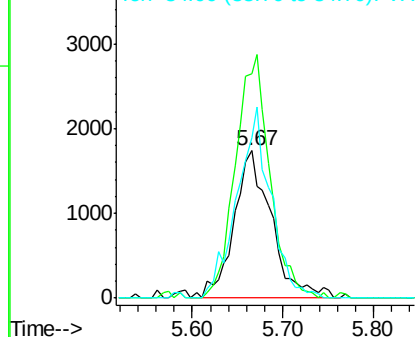
Lab File: VX002331.D

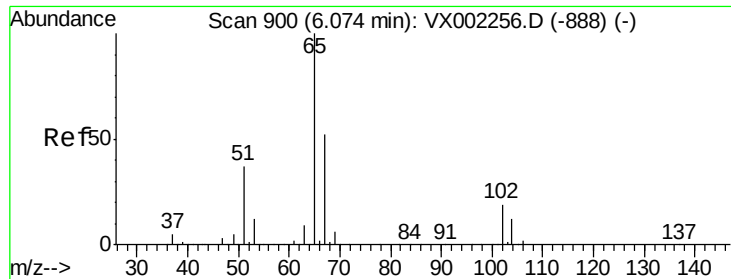
Acq: 06 Jun 2018 03:30

Tgt Ion: 56 Resp: 4985
Ion Ratio Lower Upper
56 100
69 152.4 23.7 35.5#
84 108.6 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

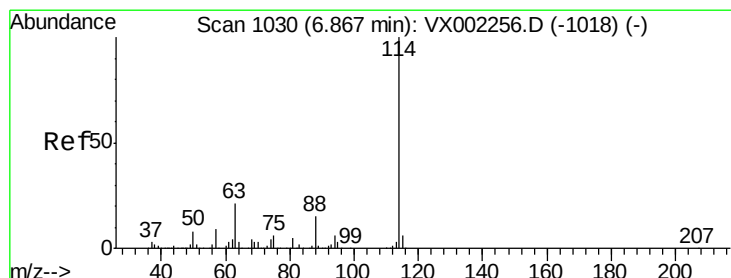
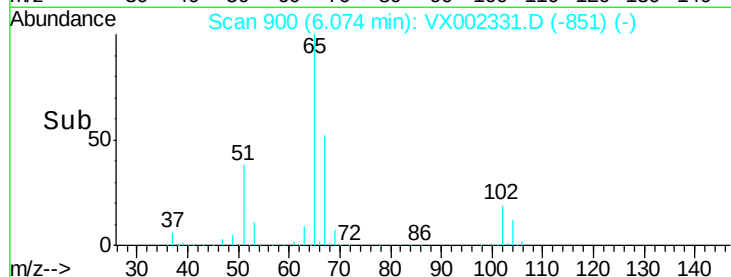
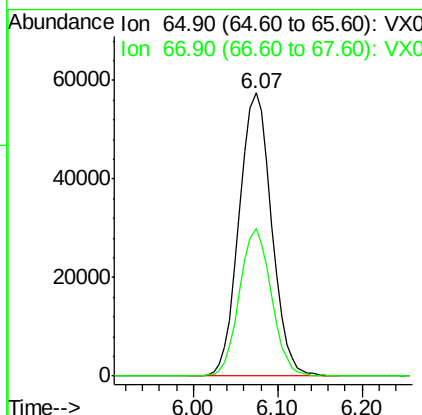
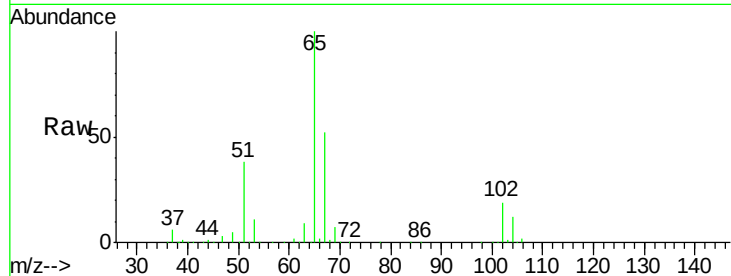




#33
 1,2-Dichloroethane-d4
 Concen: 47.88 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002331.D
 Acq: 06 Jun 2018 03:30

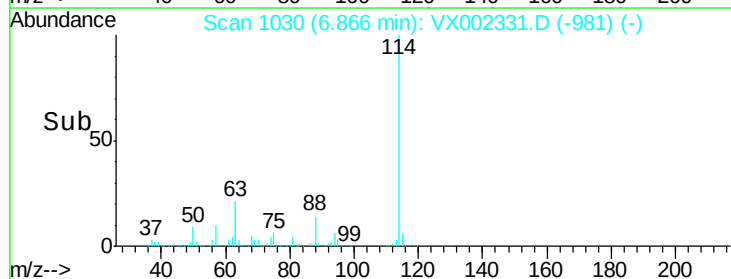
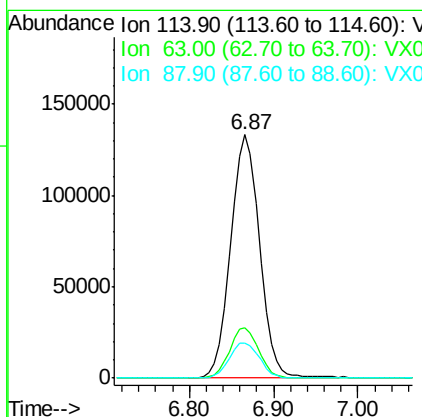
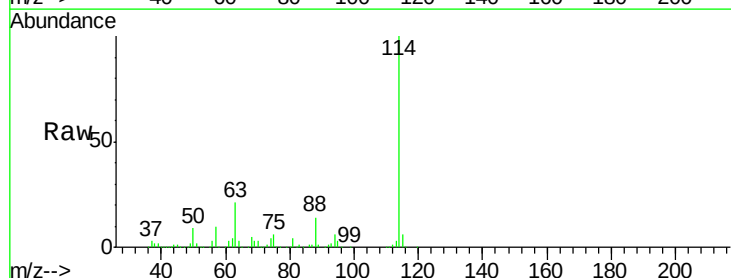
Instrument :
 MSVOA_X
 ClientSampleId :

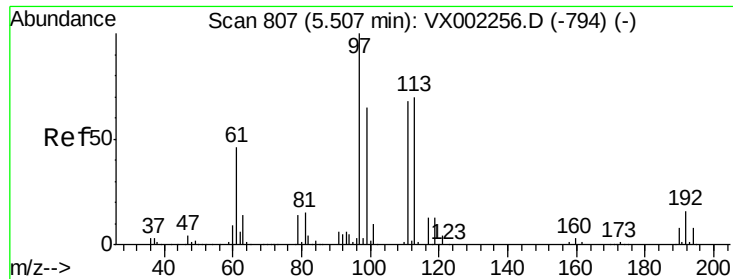
Tot Ion: 65 Resp: 149890
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002331.D
 Acq: 06 Jun 2018 03:30

Tgt Ion: 114 Resp: 309825
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 14.5 0.0 30.0

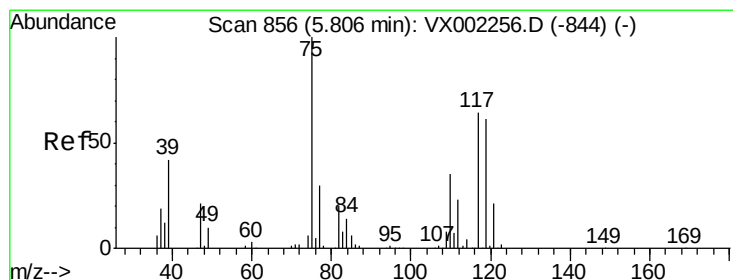
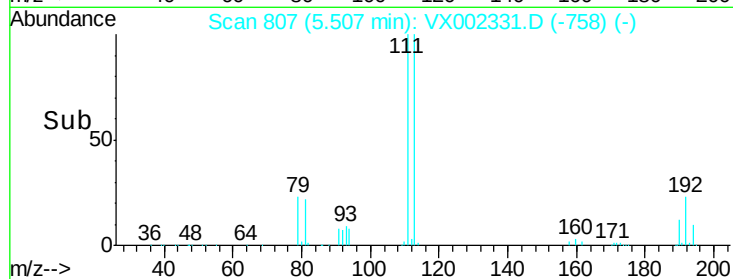
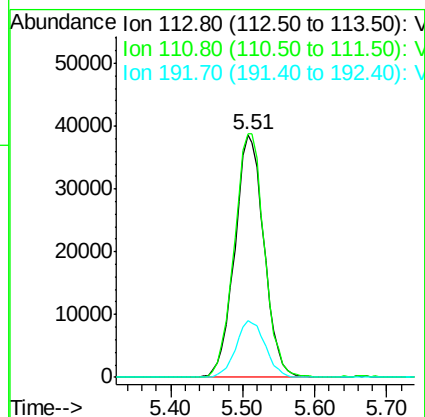
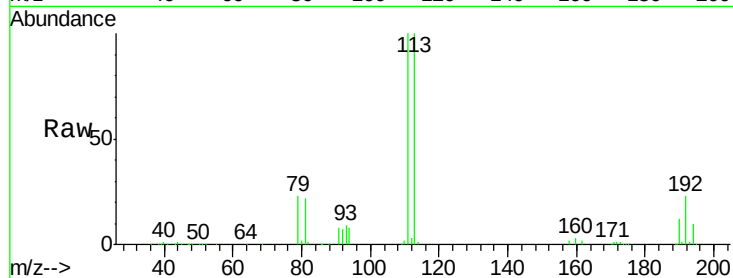




#35
Dibromofluoromethane
Concen: 44.54 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

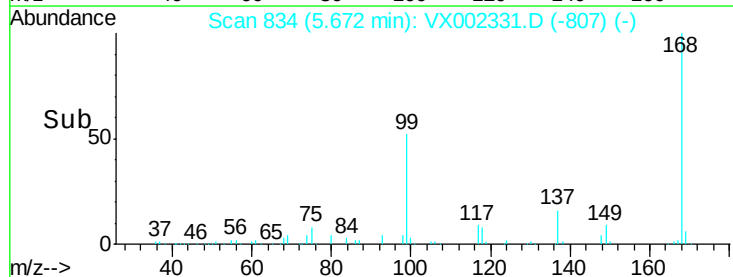
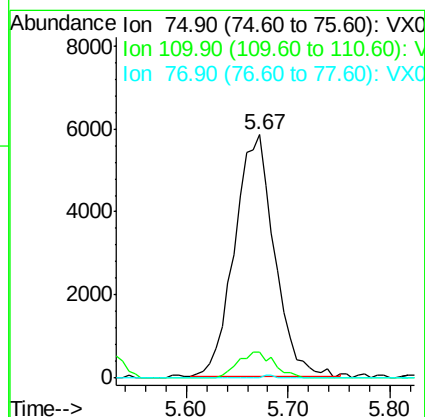
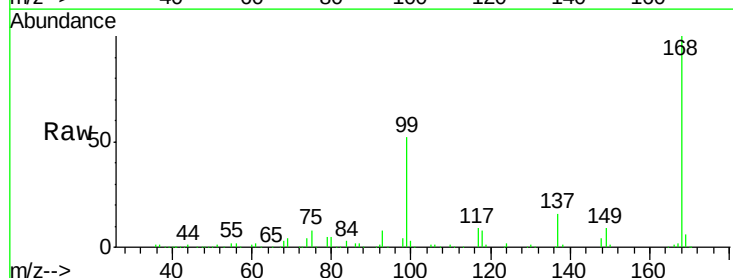
Instrument :
MSVOA_X
ClientSampled :

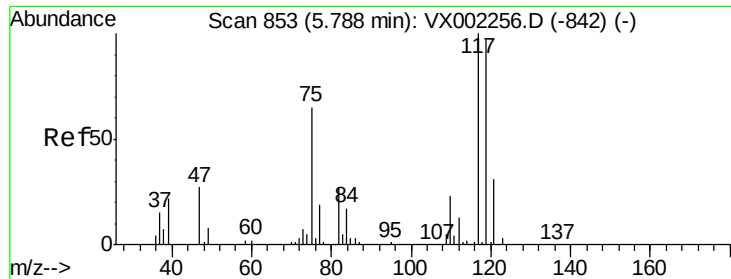
Tot Ion:113 Resp: 108513
Ion Ratio Lower Upper
113 100
111 103.0 81.4 122.0
192 23.5 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.80 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

Tgt Ion: 75 Resp: 15621
Ion Ratio Lower Upper
75 100
110 10.1 18.1 54.4#
77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.82 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

ClientSampled :

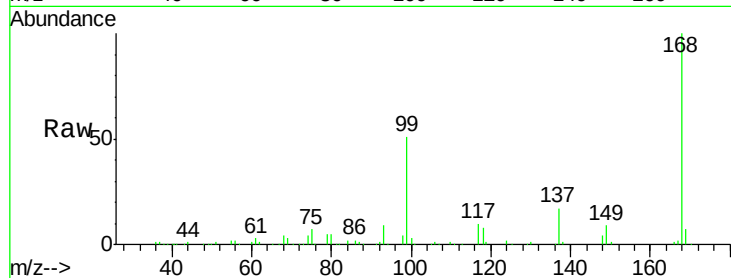
Tot Ion:117 Resp: 19842

Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.0#

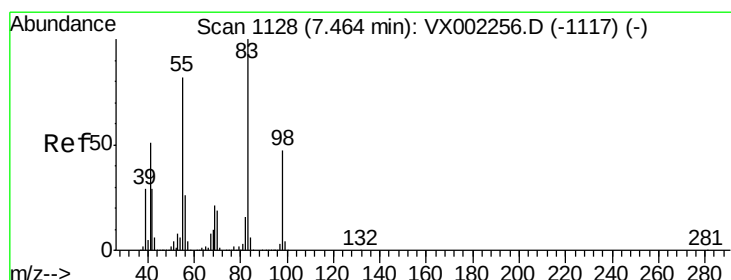
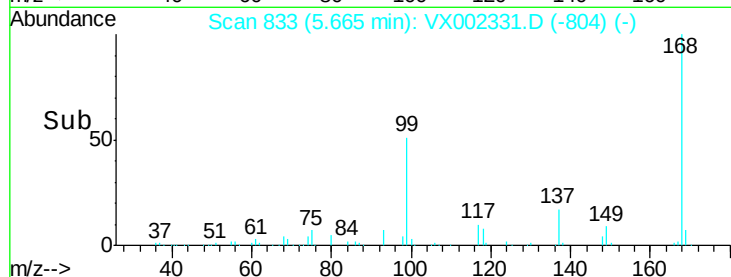
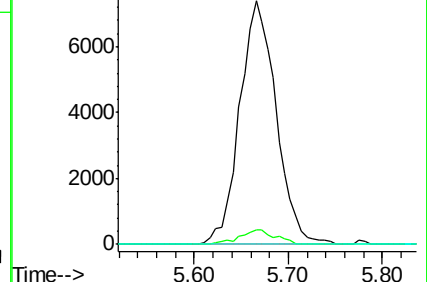
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.27 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

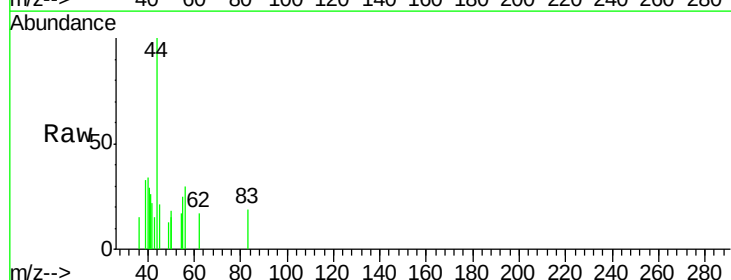
Tgt Ion: 83 Resp: 27

Ion Ratio Lower Upper

83 100

55 132.0 65.4 98.0#

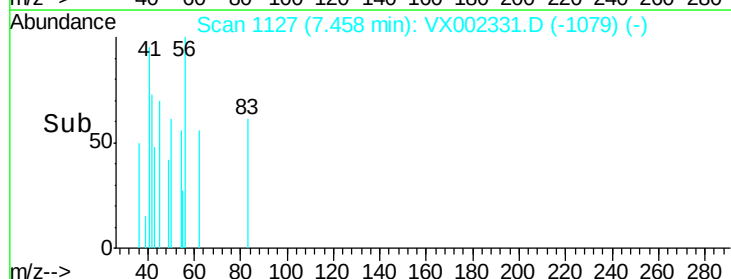
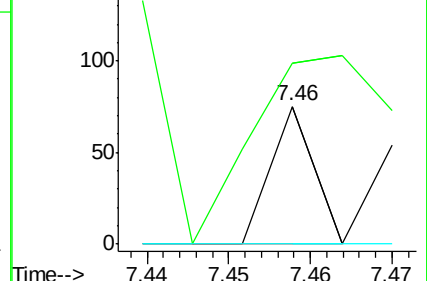
98 0.0 37.4 56.0#

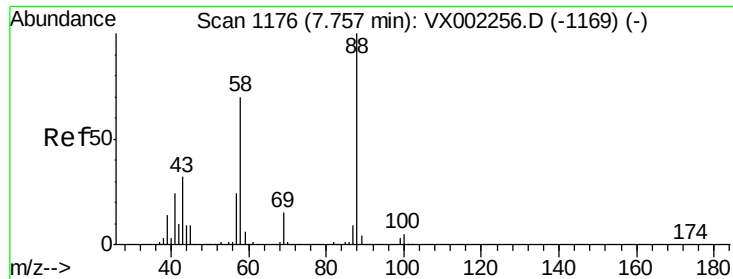


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

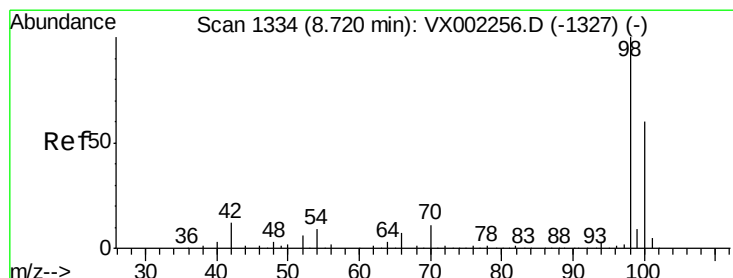
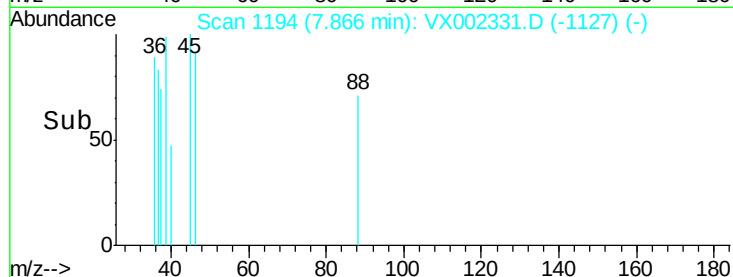
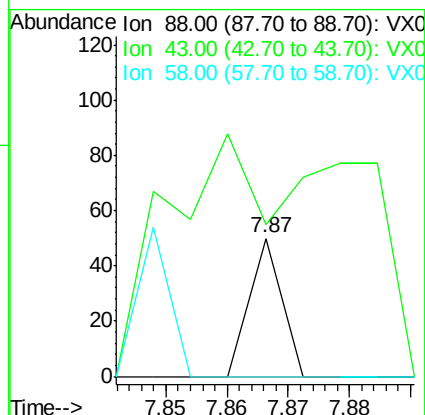
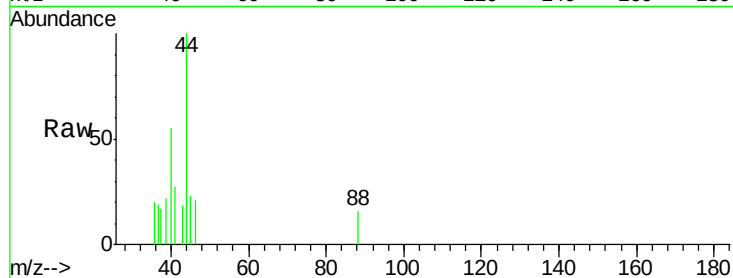




#49
1,4-Dioxane
Concen: 0.29 ug/l
RT: 7.87 min Scan# 1194
Delta R.T. 0.11 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

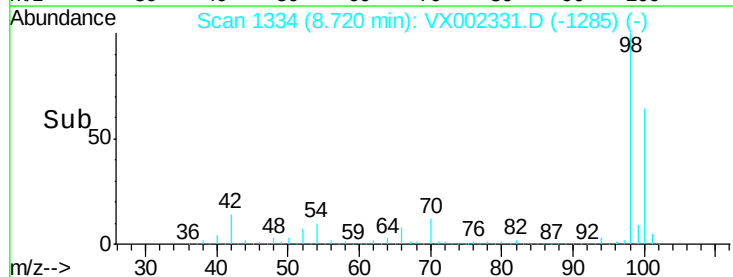
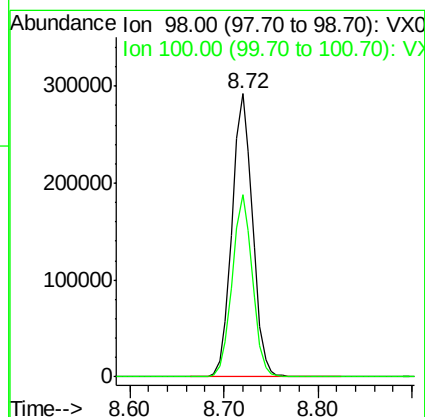
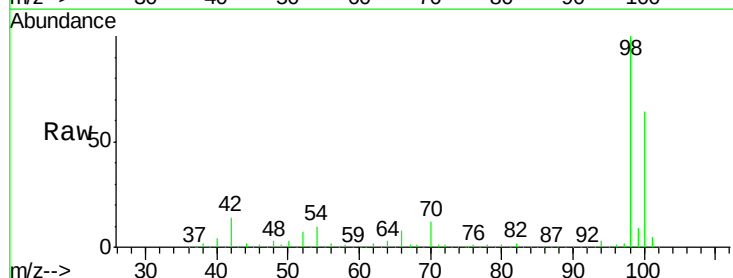
Instrument :
MSVOA_X
ClientSampled :

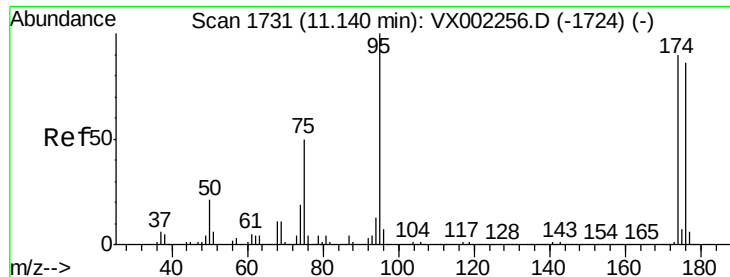
Tot Ion: 88 Resp: 18
Ion Ratio Lower Upper
88 100
43 544.4 29.8 44.6#
58 111.1 57.1 85.7#



#50
Toluene-d8
Concen: 47.51 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

Tgt Ion: 98 Resp: 443663
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3

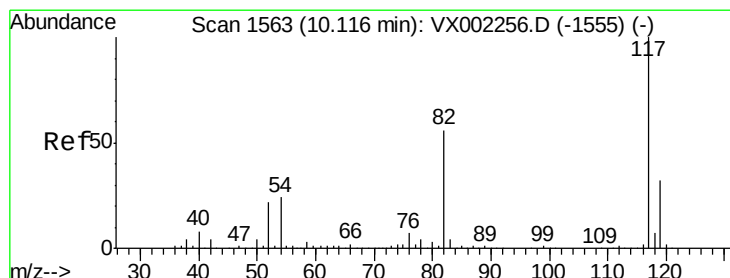
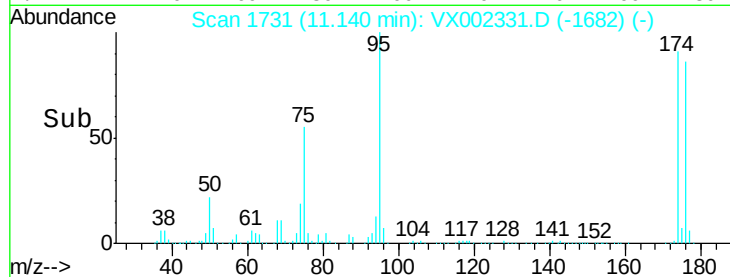
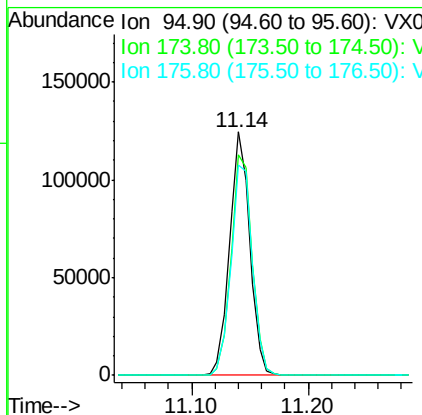
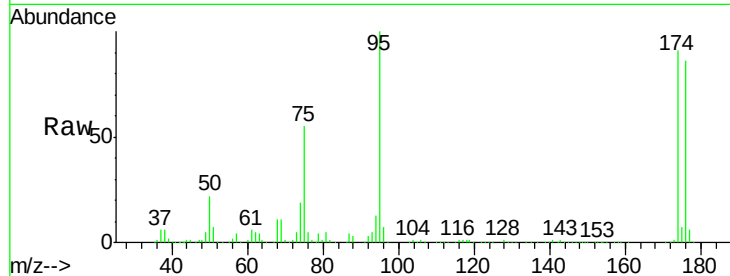




#62
4-Bromofluorobenzene
Concen: 41.89 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

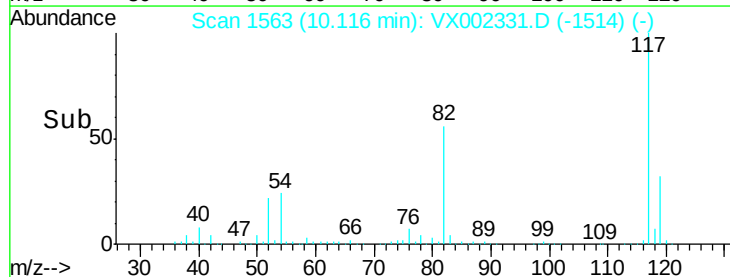
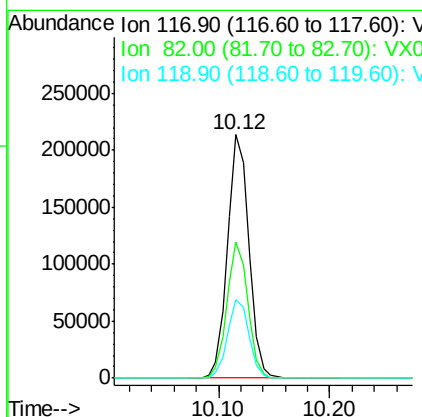
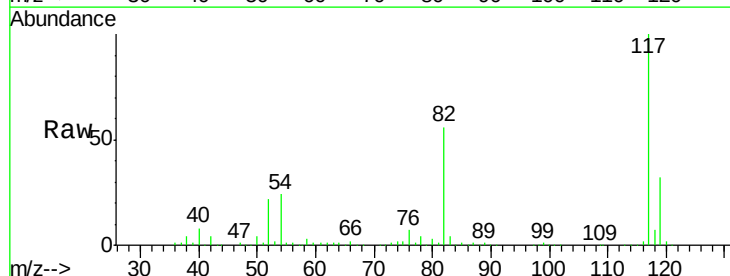
Instrument :
MSVOA_X
ClientSampleId :

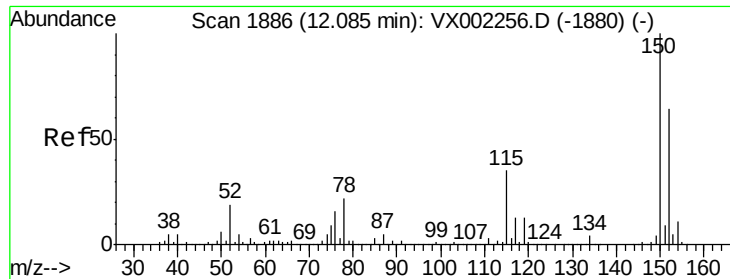
Tot Ion: 95 Resp: 150850
Ion Ratio Lower Upper
95 100
174 94.5 0.0 187.4
176 91.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002331.D
Acq: 06 Jun 2018 03:30

Tgt Ion: 117 Resp: 283358
Ion Ratio Lower Upper
117 100
82 55.9 45.0 67.4
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

ClientSampled :

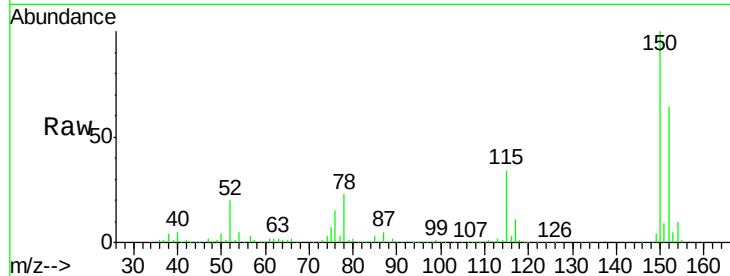
Tot Ion:152 Resp: 156103

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

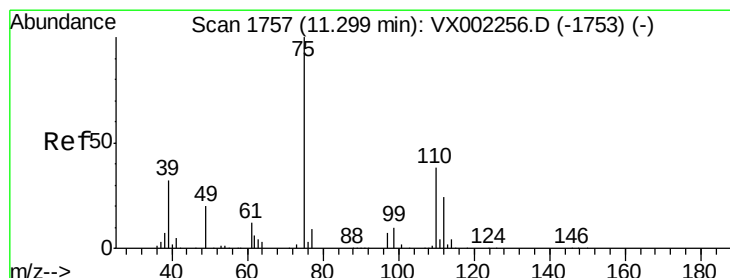
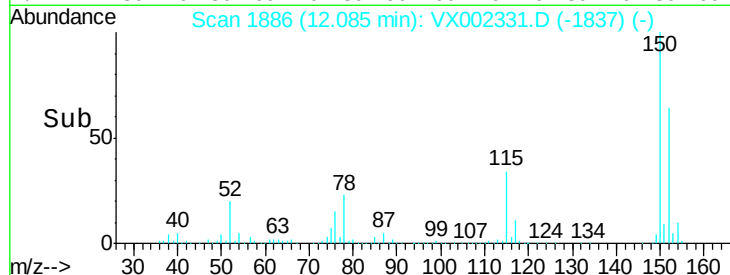
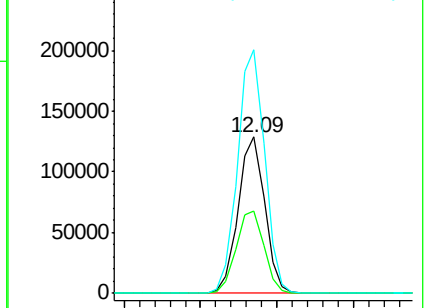
150 158.0 0.0 347.2



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: 23.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002331.D

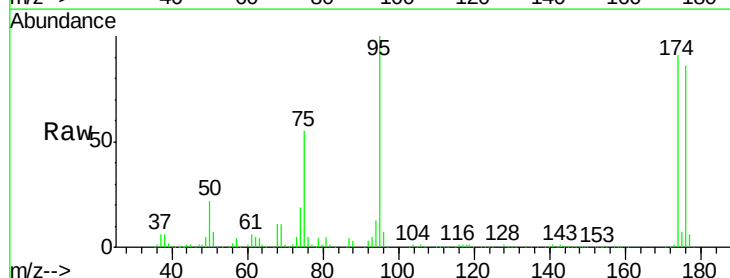
Acq: 06 Jun 2018 03:30

Tgt Ion: 75 Resp: 81461

Ion Ratio Lower Upper

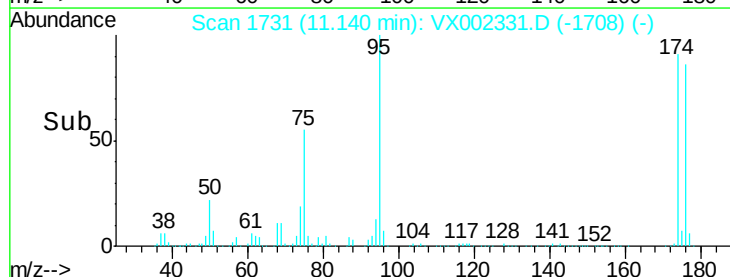
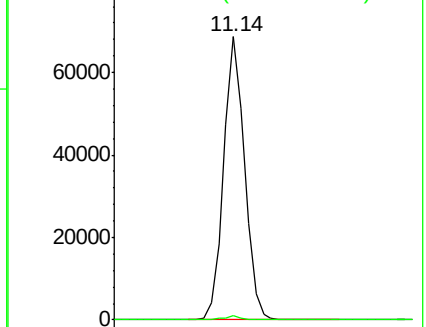
75 100

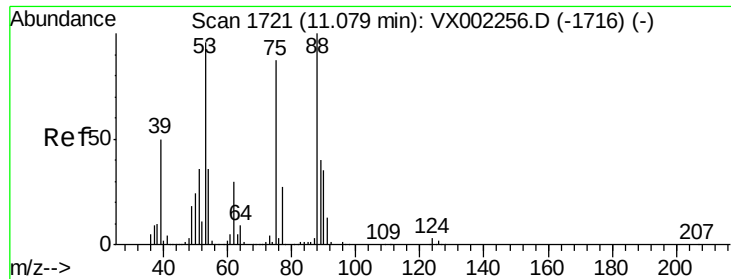
77 1.3 22.8 68.3#



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: 83.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002331.D

Acq: 06 Jun 2018 03:30

Instrument :

MSVOA_X

ClientSampleId :

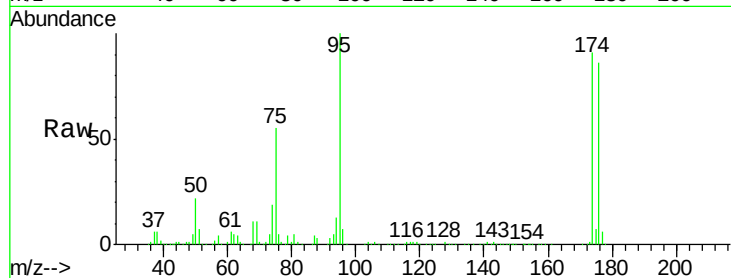
Tot Ion: 75 Resp: 81461

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#



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

