

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002276.D
 Acq On : 04 Jun 2018 23:13
 Operator : JC/MD
 Sample : VX0604WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 06:07:42 2018
 Quant Method : Y:\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	271457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	391567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	212360	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	206876	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	
35) Dibromofluoromethane	5.51	113	153456	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	8.72	98	621757	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
62) 4-Bromofluorobenzene	11.14	95	220147	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	

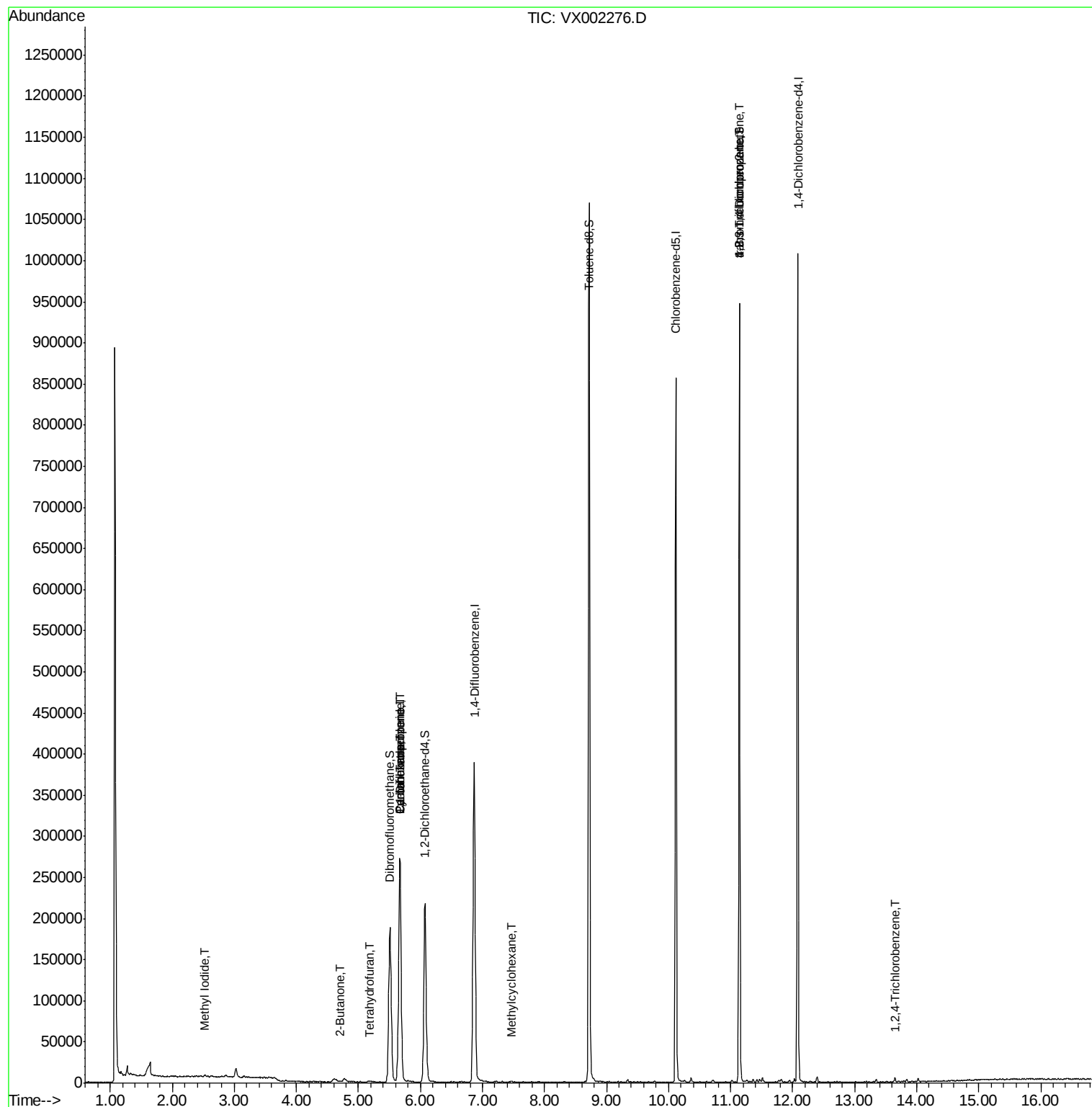
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	858	Below Cal	#	88
5) Bromomethane	1.64	94	1978	Below Cal	#	94
8) Diethyl Ether	2.46	74	55	Below Cal	#	78
10) Methyl Iodide	2.52	142	2909	0.71	ug/l	97
11) Tert butyl alcohol	3.03	59	6189	Below Cal	#	73
13) Acrolein	2.29	56	375	Below Cal	#	45
15) Acrylonitrile	3.15	53	703	Below Cal	#	72
16) Acetone	2.45	43	1521	Below Cal	#	70
18) Methyl Acetate	2.78	43	387	Below Cal	#	33
19) Methyl tert-butyl Ether	3.21	73	445	Below Cal	#	54
20) Methylene Chloride	2.86	84	1060	Below Cal	#	82
22) Diisopropyl ether	3.87	45	862	Below Cal	#	59
25) 2-Butanone	4.70	43	574	0.22	ug/l	69
28) Bromochloromethane	5.03	49	155	Below Cal	#	30
29) Tetrahydrofuran	5.18	42	1138	0.66	ug/l	55
31) Cyclohexane	5.67	56	6424	1.31	ug/l	2
36) 1,1-Dichloropropene	5.67	75	19210	4.67	ug/l	52
38) Carbon Tetrachloride	5.67	117	25215	5.86	ug/l	16
39) Methylcyclohexane	7.47	83	341	0.33	ug/l	55
76) 1,2,3-Trichloropropane	11.14	75	119665	25.68	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	119665	90.02	ug/l	6
93) 1,2,4-Trichlorobenzene	13.65	180	1372	0.26	ug/l	91

(#) = 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# 833

Delta R.T. -0.01 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

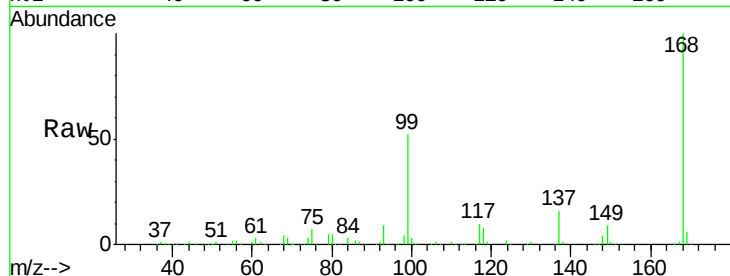
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 271457

Ion Ratio Lower Upper

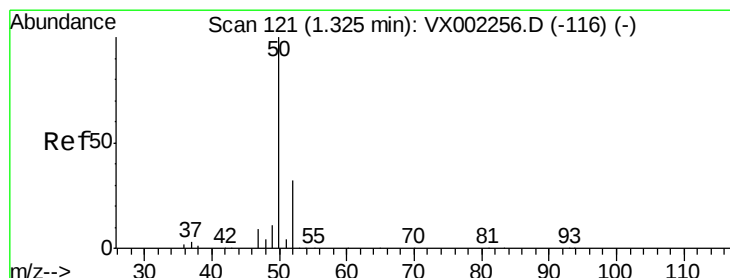
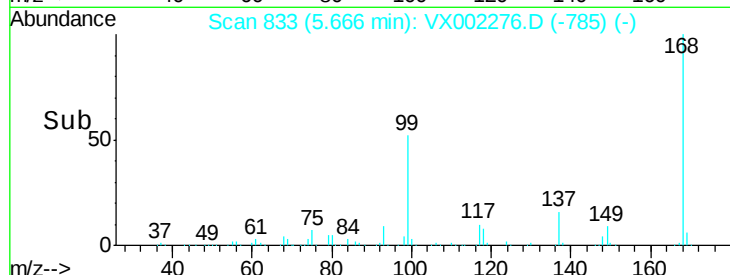
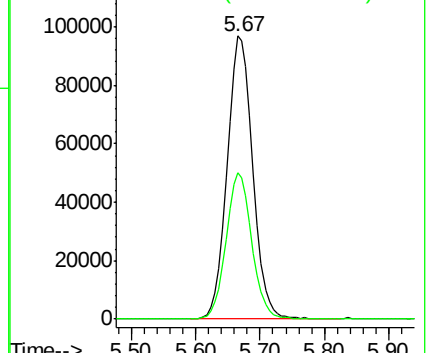
168 100

99 51.5 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: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002276.D

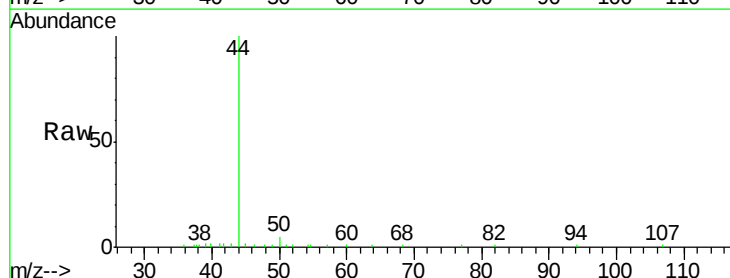
Acq: 04 Jun 2018 23:13

Tgt Ion: 50 Resp: 858

Ion Ratio Lower Upper

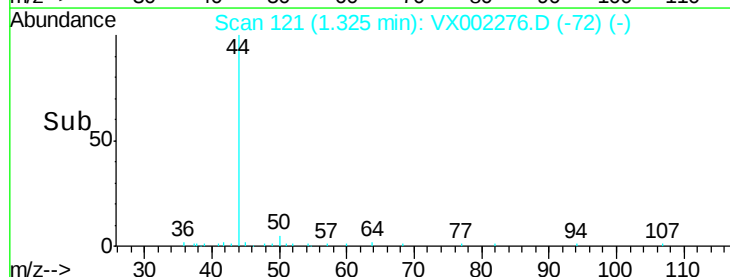
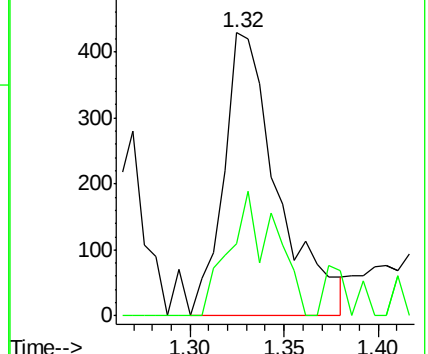
50 100

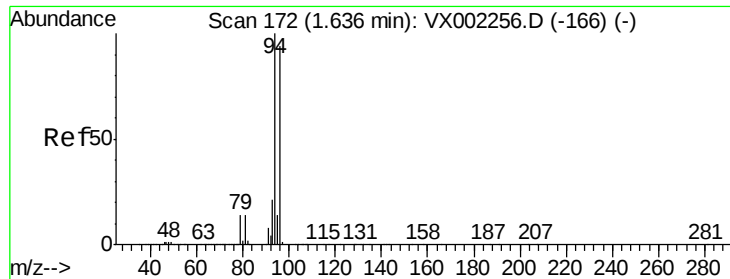
52 25.4 25.7 38.5#



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: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

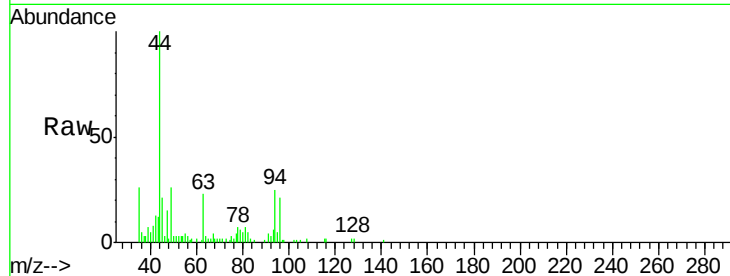
ClientSampled :

Tot Ion: 94 Resp: 1978

Ion Ratio Lower Upper

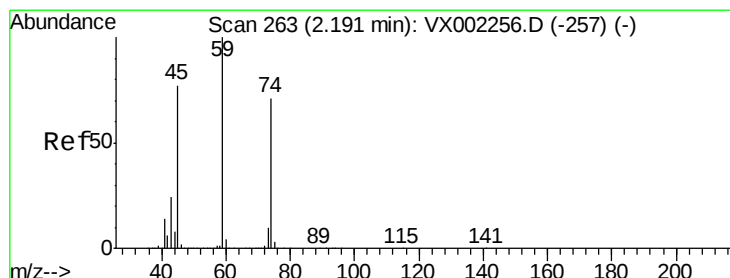
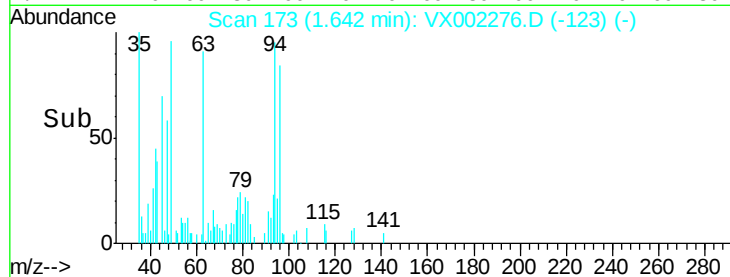
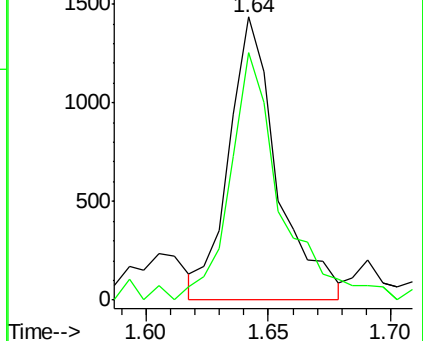
94 100

96 88.0 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.46 min Scan# 307

Delta R.T. 0.27 min

Lab File: VX002276.D

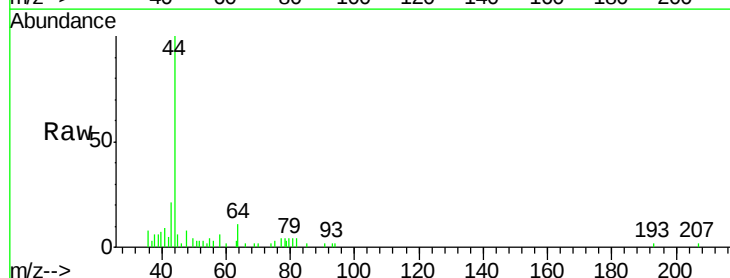
Acq: 04 Jun 2018 23:13

Tgt Ion: 74 Resp: 55

Ion Ratio Lower Upper

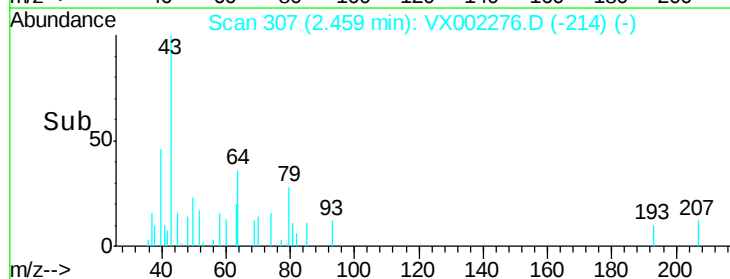
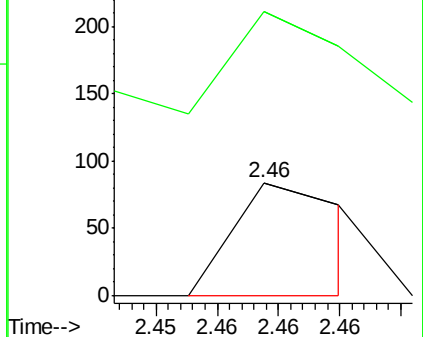
74 100

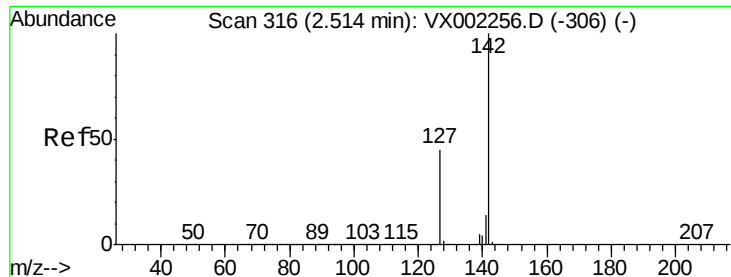
45 83.6 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

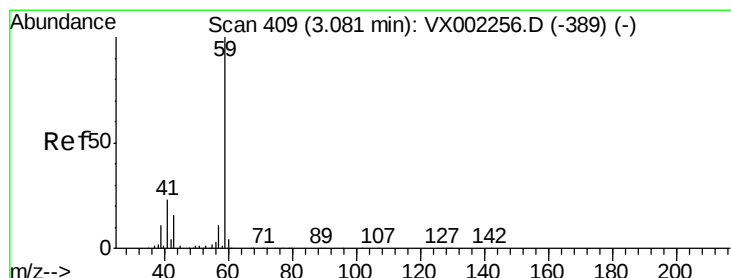
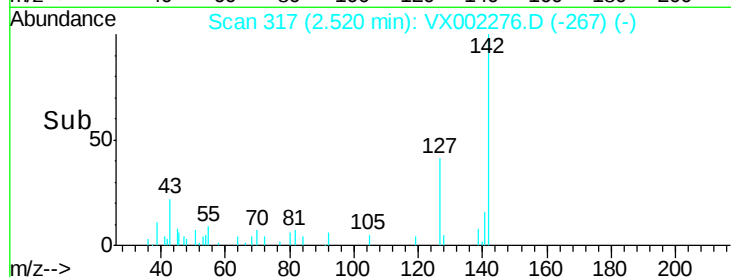
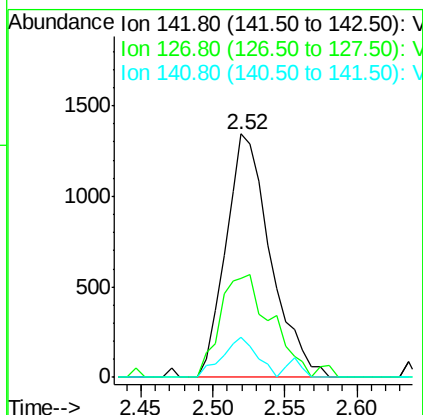
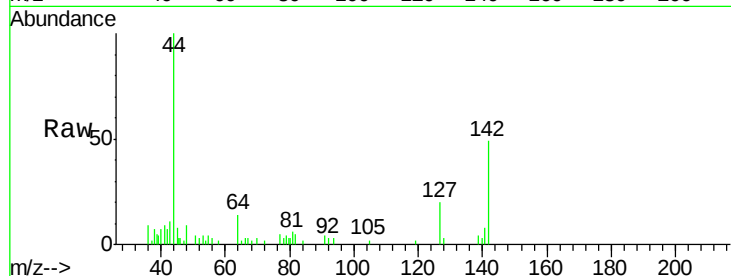




#10
Methyl Iodide
Concen: 0.71 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

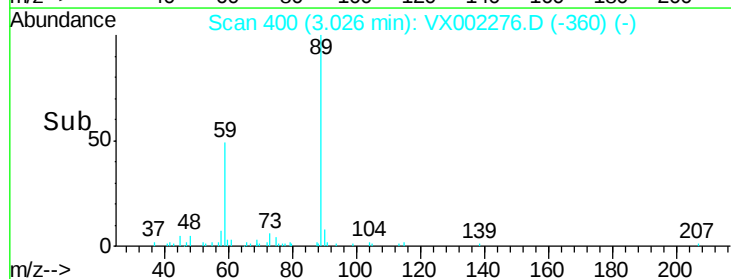
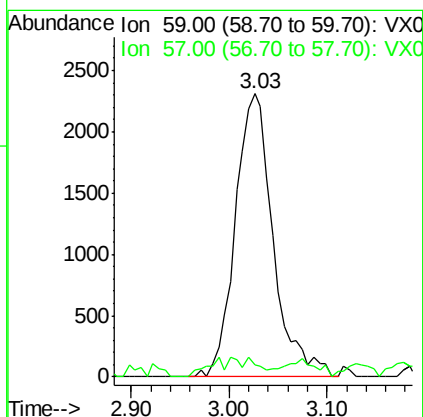
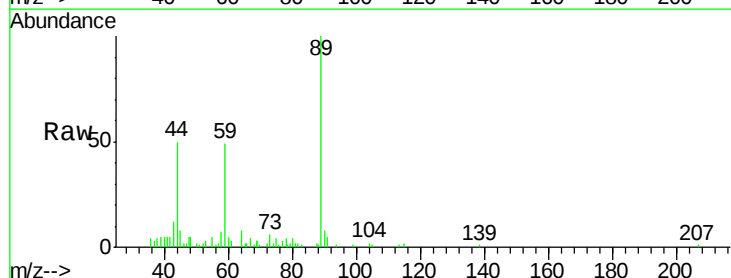
Instrument :
MSVOA_X
ClientSampleId :

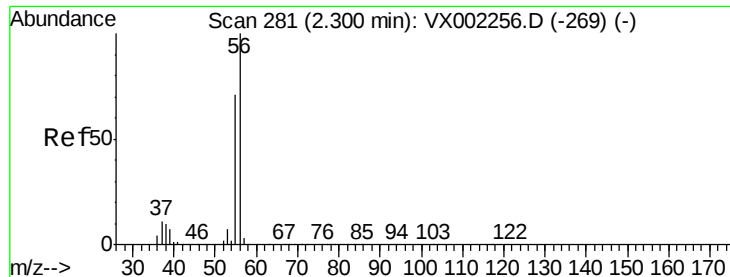
Tot Ion:142 Resp: 2909
Ion Ratio Lower Upper
142 100
127 47.9 36.6 55.0
141 12.8 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Tgt Ion: 59 Resp: 6189
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

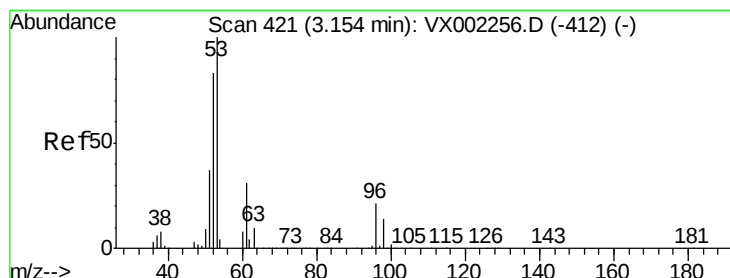
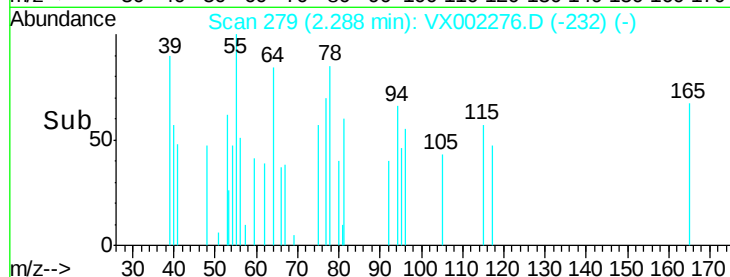
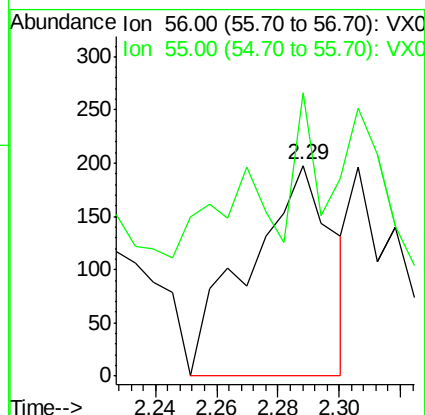
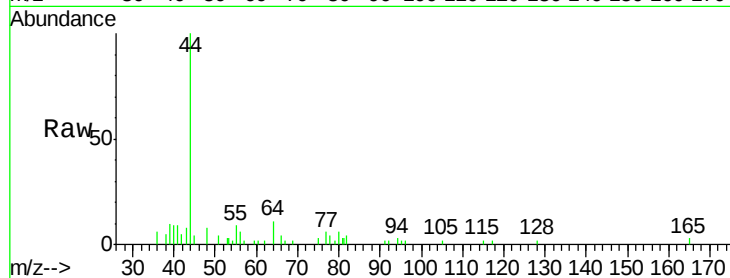
ClientSampled :

Tot Ion: 56 Resp: 375

Ion Ratio Lower Upper

56 100

55 25.6 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

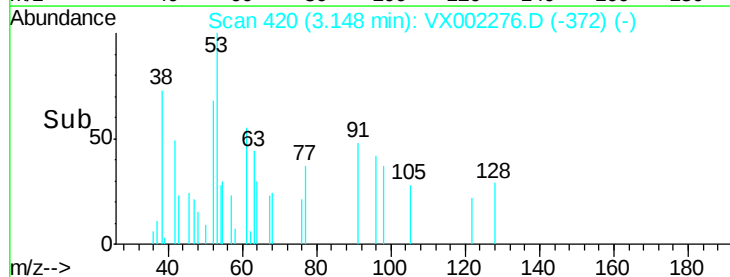
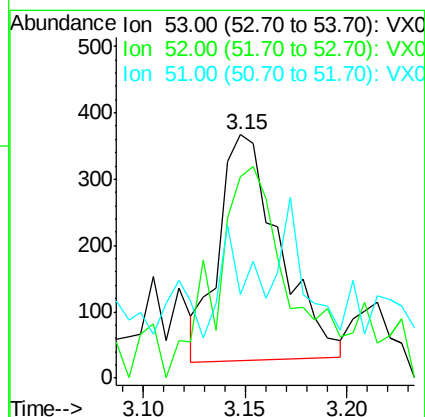
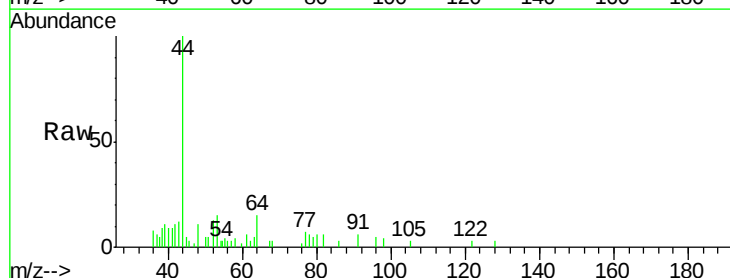
Tgt Ion: 53 Resp: 703

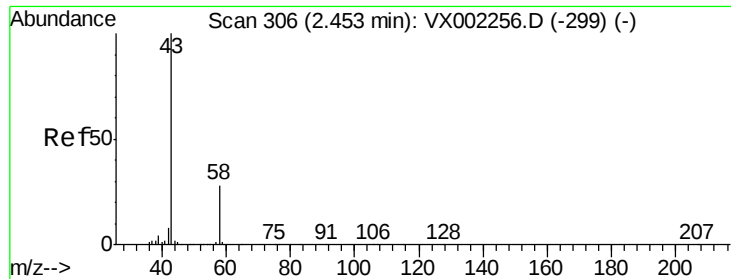
Ion Ratio Lower Upper

53 100

52 111.7 66.7 100.1#

51 24.8 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

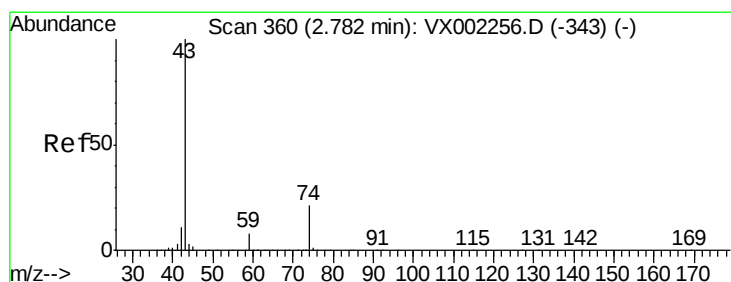
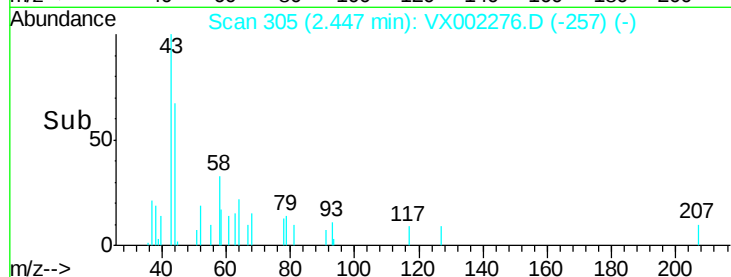
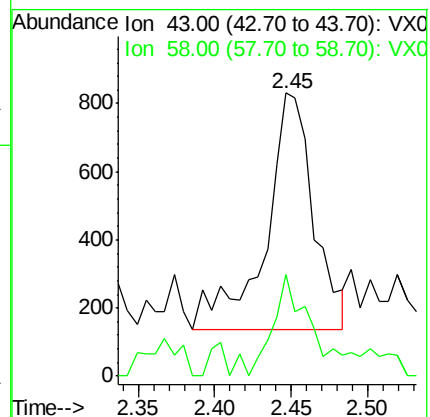
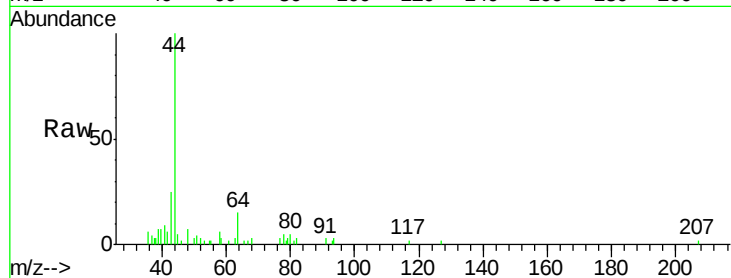
ClientSampleId :

Tot Ion: 43 Resp: 1521

Ion Ratio Lower Upper

43 100

58 43.1 22.1 33.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002276.D

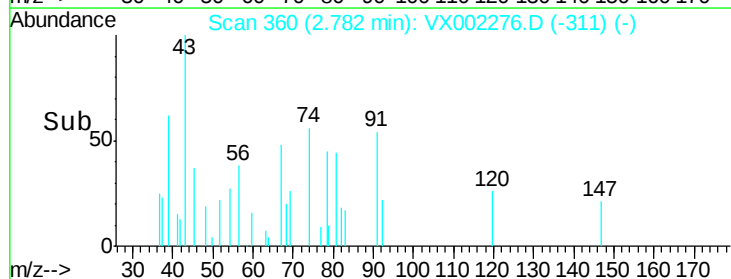
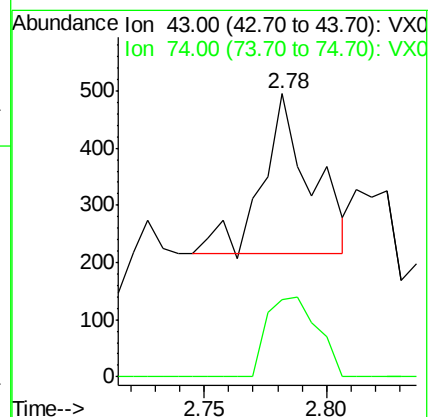
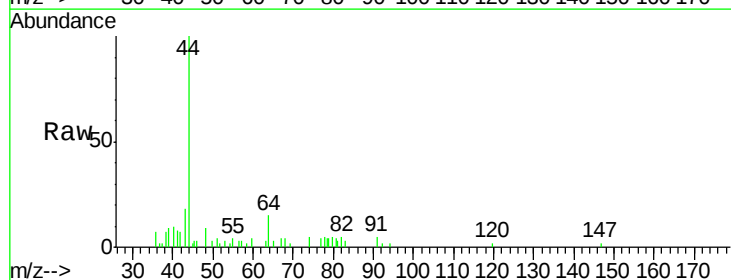
Acq: 04 Jun 2018 23:13

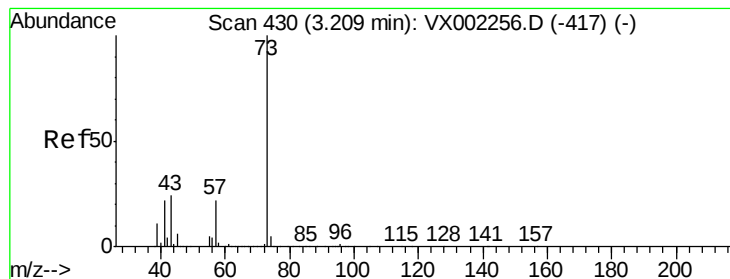
Tgt Ion: 43 Resp: 387

Ion Ratio Lower Upper

43 100

74 52.2 16.7 25.1#



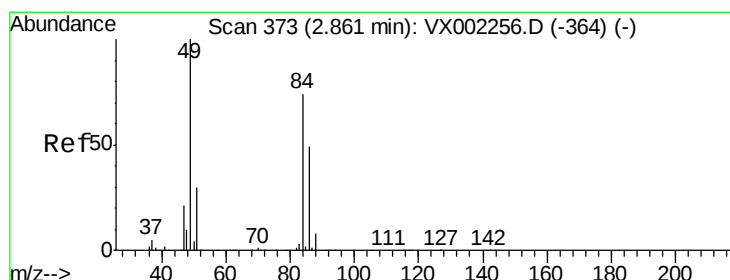
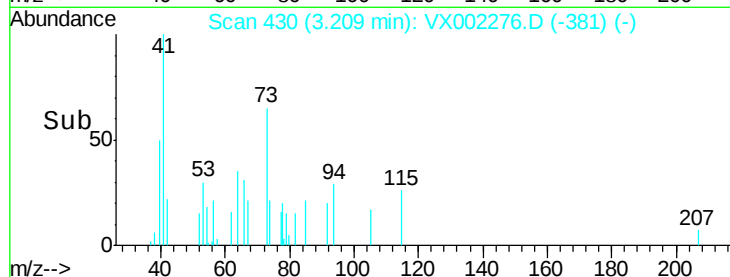
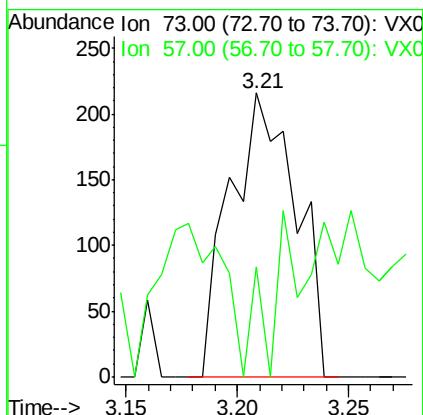
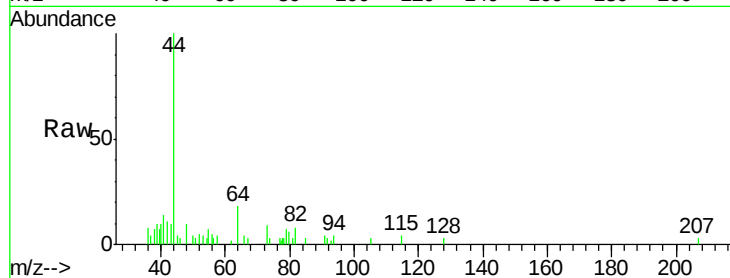


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Instrument :
MSVOA_X
ClientSampled :

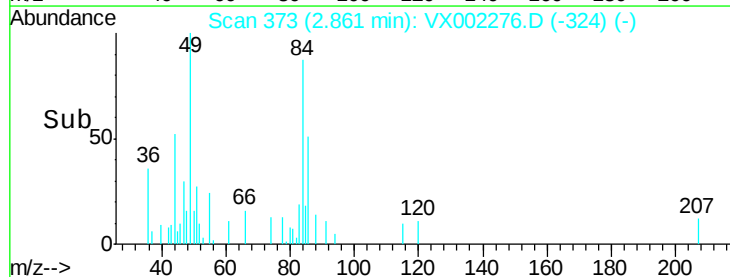
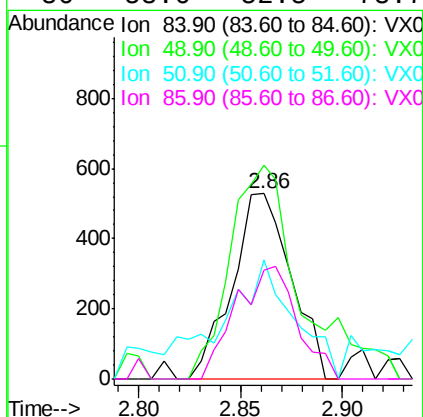
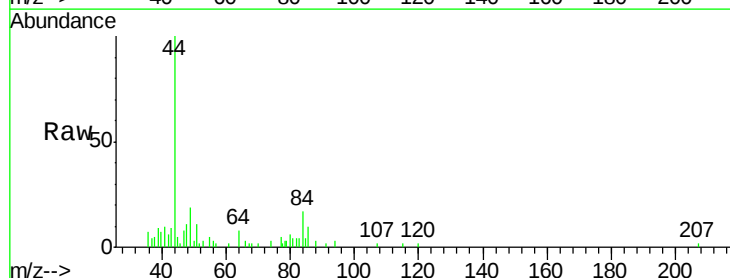
Tot Ion: 73 Resp: 445
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

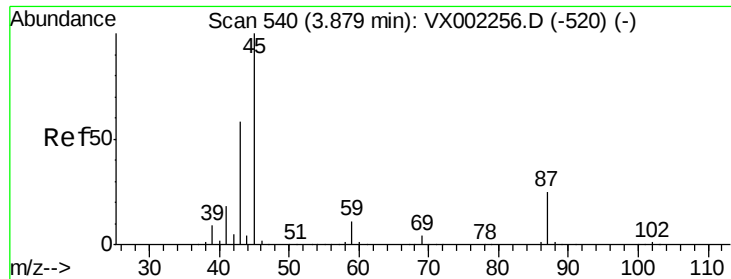


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Tgt Ion: 84 Resp: 1060
Ion Ratio Lower Upper
84 100
49 115.1 107.8 161.6
51 64.1 32.8 49.2#
86 58.6 52.5 78.7



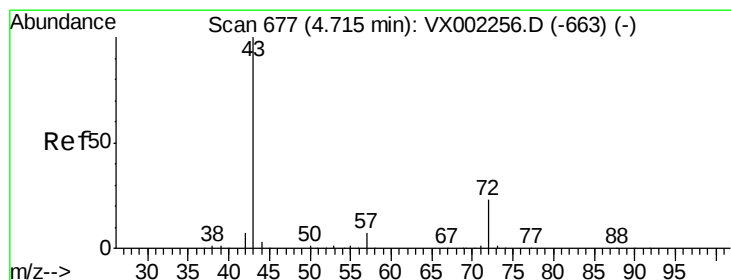
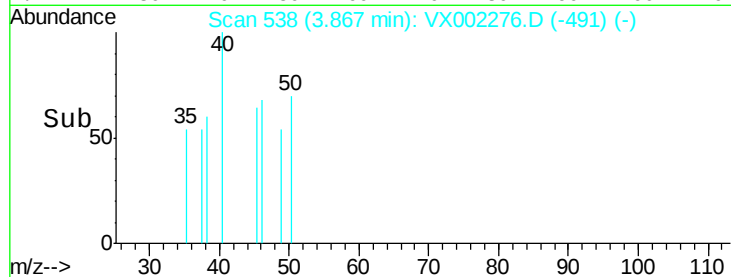
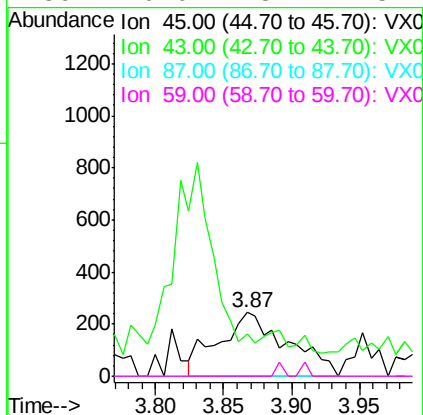
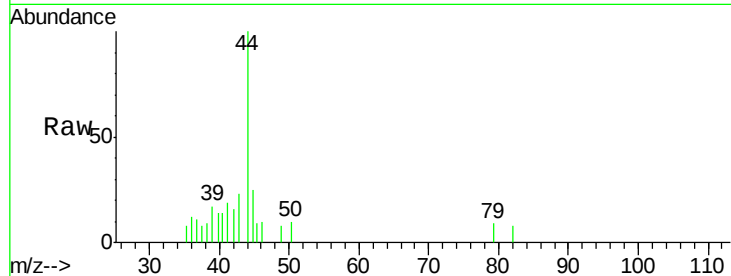


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.87 min Scan# 538
 Delta R.T. -0.01 min
 Lab File: VX002276.D
 Acq: 04 Jun 2018 23:13

Instrument :
 MSVOA_X
 ClientSampled :

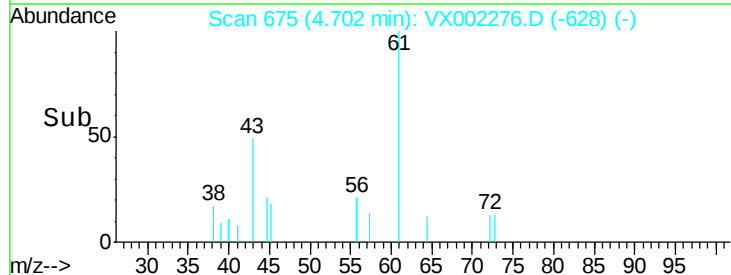
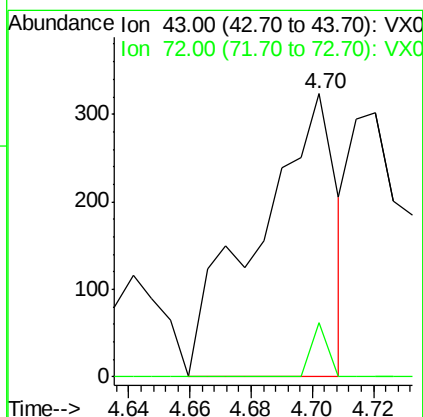
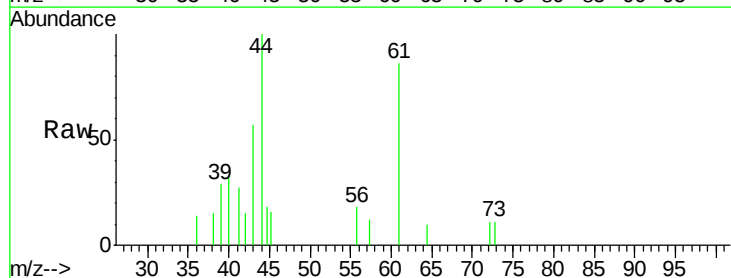
Tot Ion:	45	Resp:	862
Ion	Ratio	Lower	Upper
45	100		
43	29.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

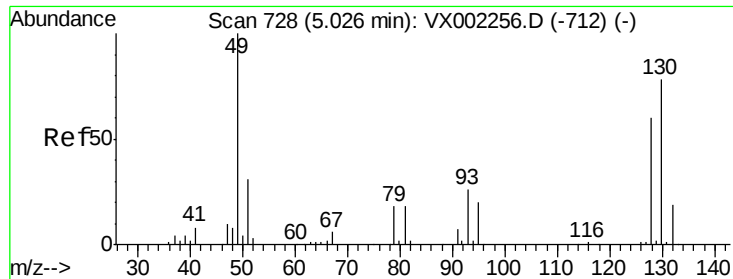


#25

2-Butanone
 Concen: 0.22 ug/l
 RT: 4.70 min Scan# 675
 Delta R.T. -0.01 min
 Lab File: VX002276.D
 Acq: 04 Jun 2018 23:13

Tgt Ion:	43	Resp:	574
Ion	Ratio	Lower	Upper
43	100		
72	38.4	18.5	27.7#

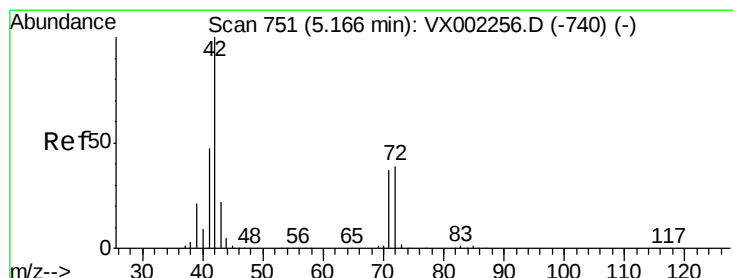
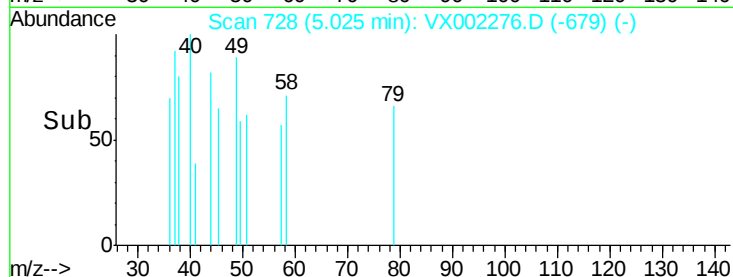
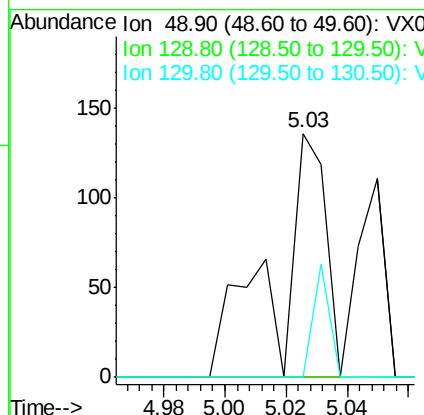
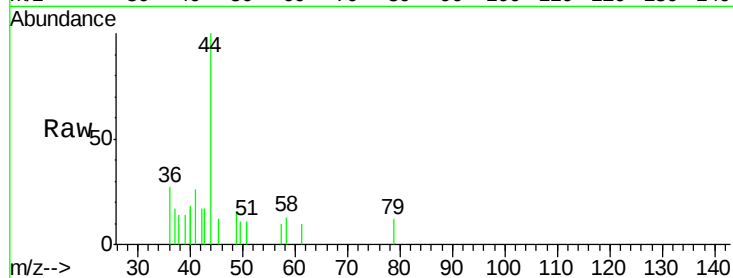




#28
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 728
Delta R.T. 0.00 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

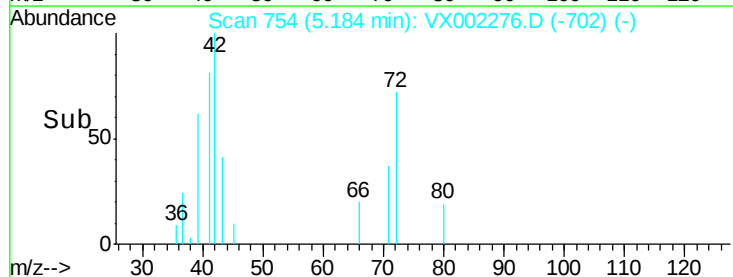
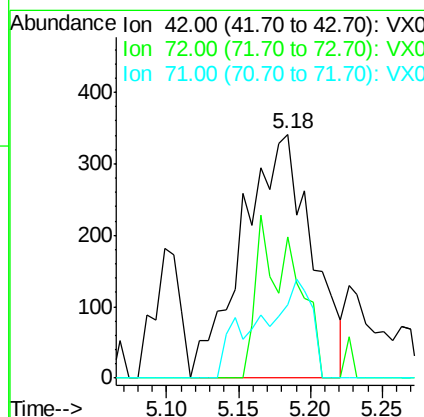
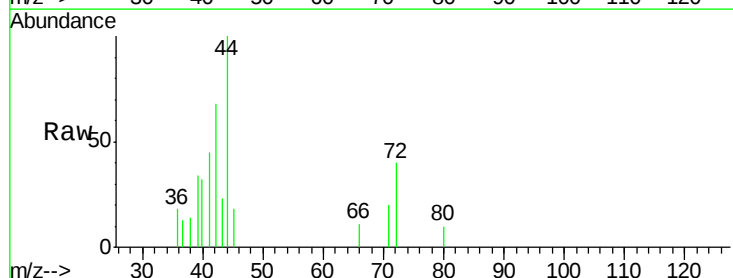
Instrument :
MSVOA_X
ClientSampled :

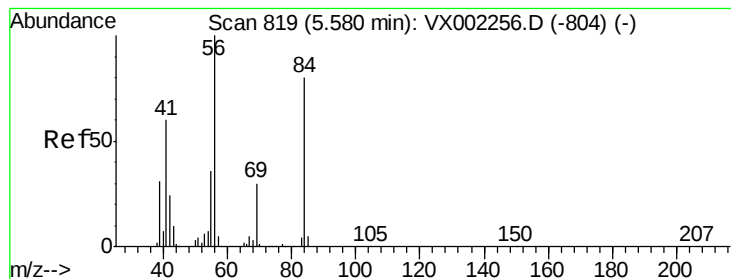
Tot Ion: 49 Resp: 155
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 14.8 61.2 91.8#



#29
Tetrahydrofuran
Concen: 0.66 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Tgt Ion: 42 Resp: 1138
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 22.8 30.1 45.1#





#31

Cyclohexane

Concen: 1.31 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

ClientSampled :

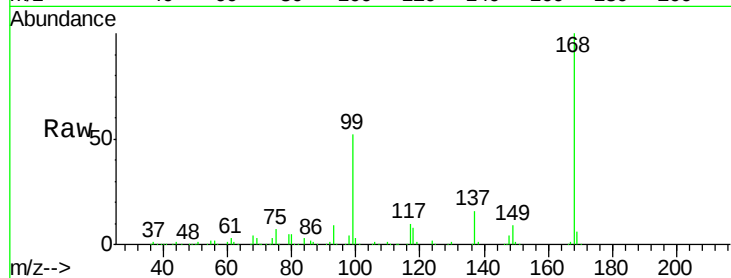
Tot Ion: 56 Resp: 6424

Ion Ratio Lower Upper

56 100

69 157.0 23.7 35.5#

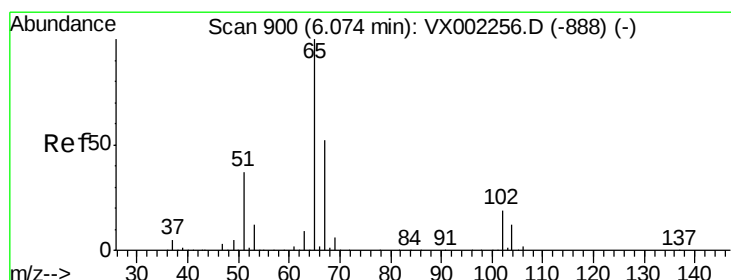
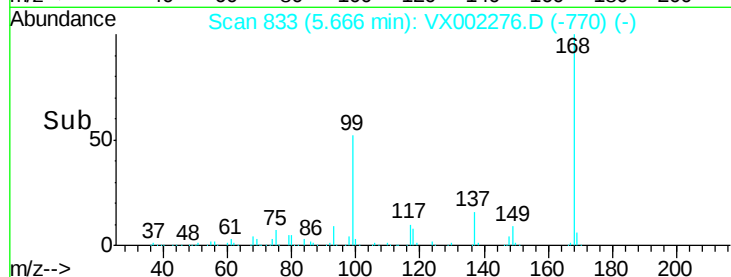
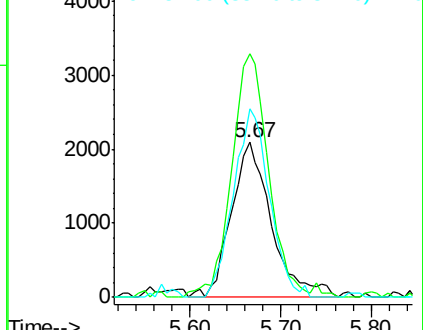
84 121.3 64.1 96.1#



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: 53.54 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002276.D

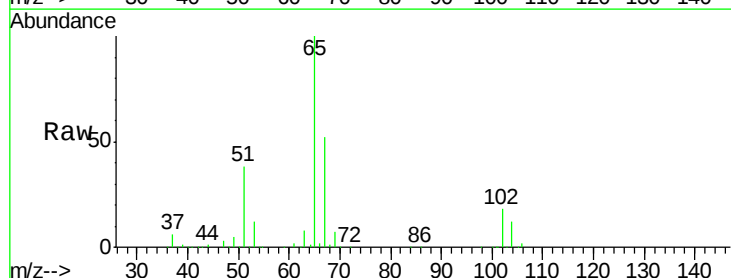
Acq: 04 Jun 2018 23:13

Tgt Ion: 65 Resp: 206876

Ion Ratio Lower Upper

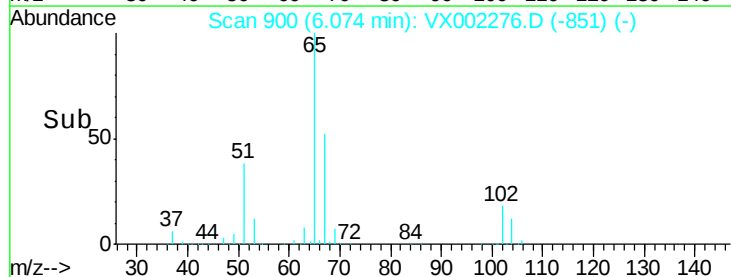
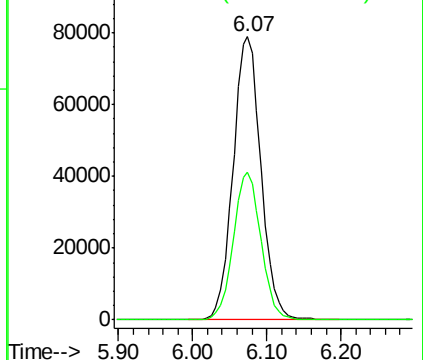
65 100

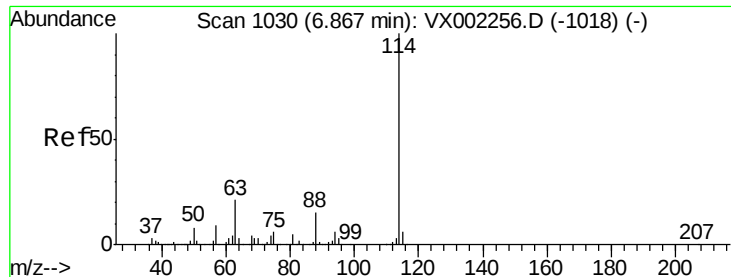
67 51.7 0.0 102.6



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: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

ClientSampleId :

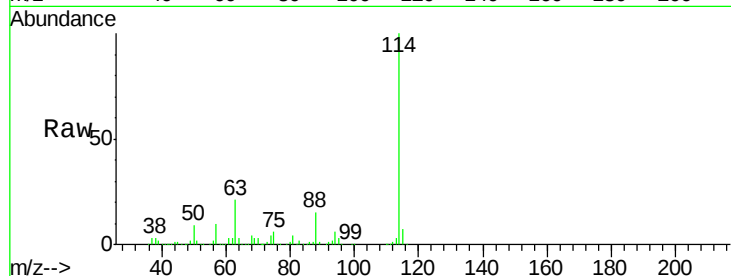
Tot Ion:114 Resp: 391567

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.4

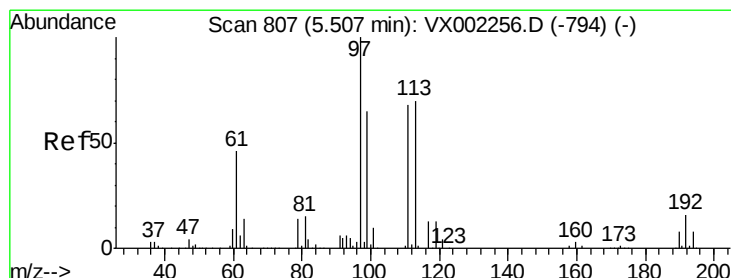
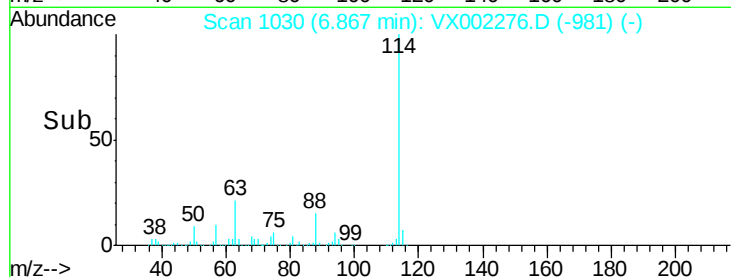
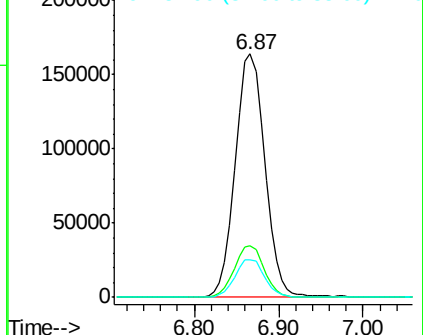
88 15.4 0.0 30.0



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: 49.83 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

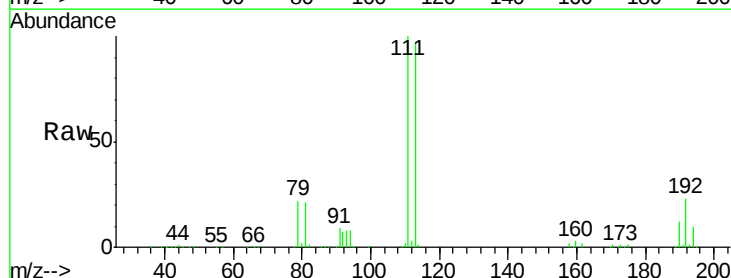
Tgt Ion:113 Resp: 153456

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

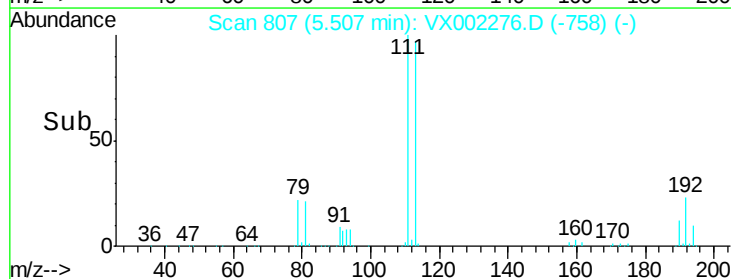
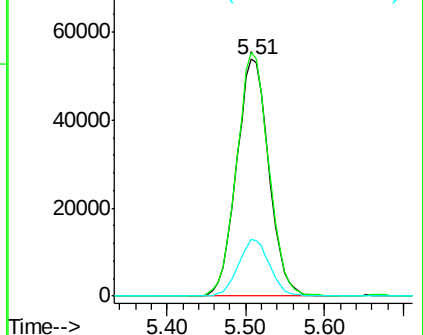
192 23.1 19.1 28.7

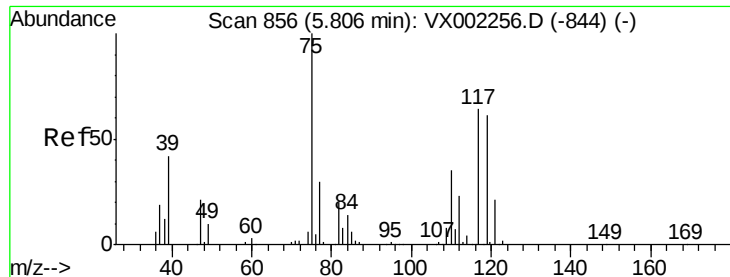


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.67 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :
MSVOA_X
ClientSampled :

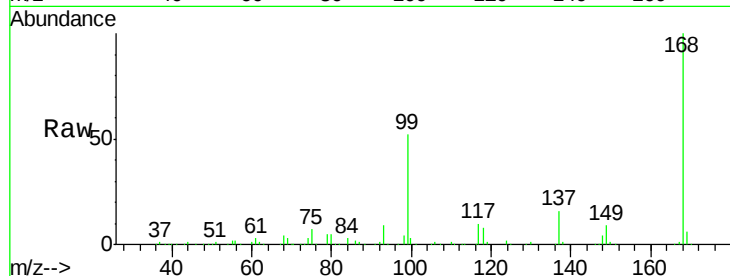
Tot Ion: 75 Resp: 19210

Ion Ratio Lower Upper

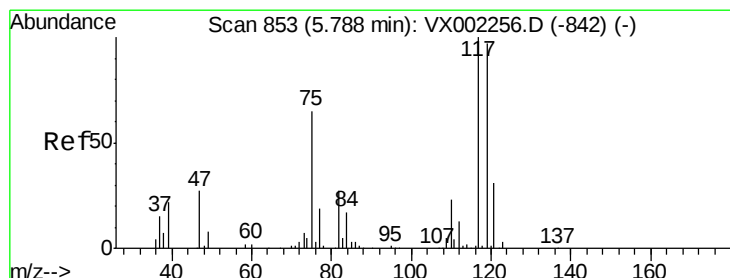
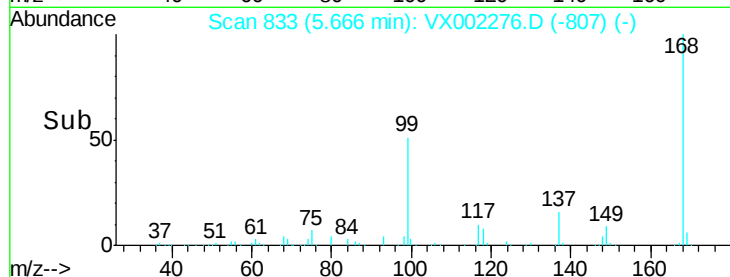
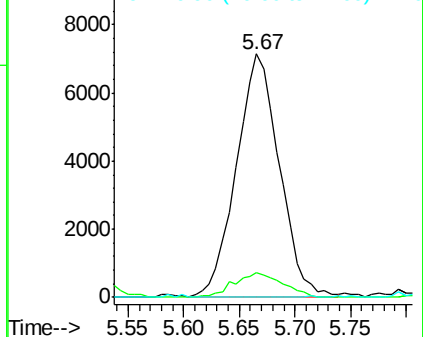
75 100

110 11.4 18.1 54.4#

77 0.0 24.3 36.5#



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: 5.86 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

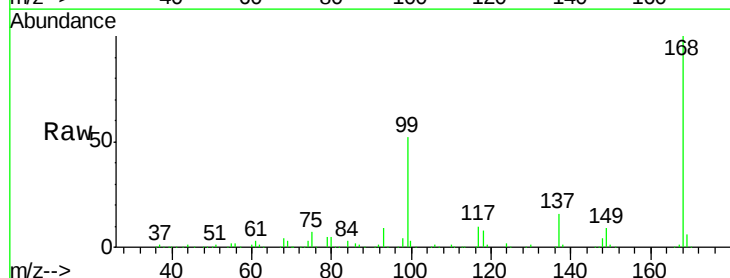
Tgt Ion: 117 Resp: 25215

Ion Ratio Lower Upper

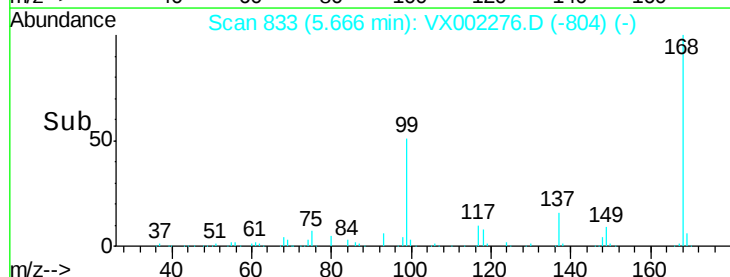
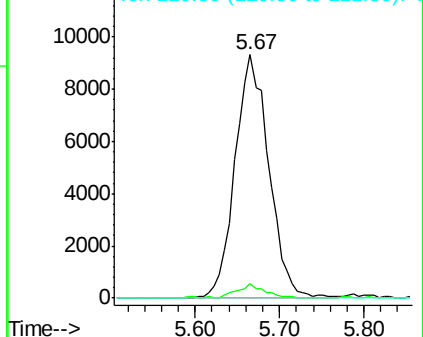
117 100

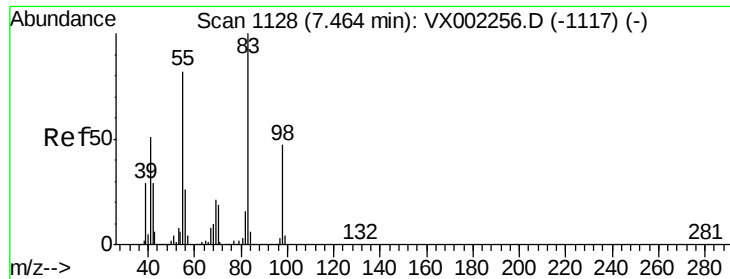
119 5.8 77.4 116.0#

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

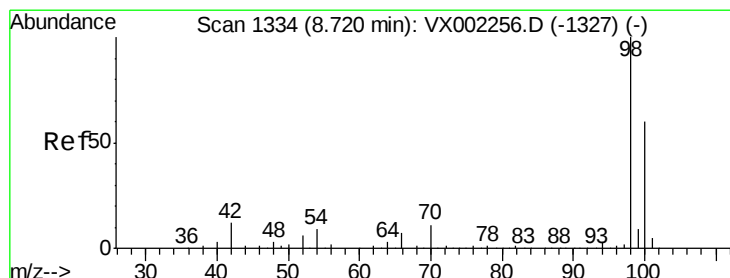
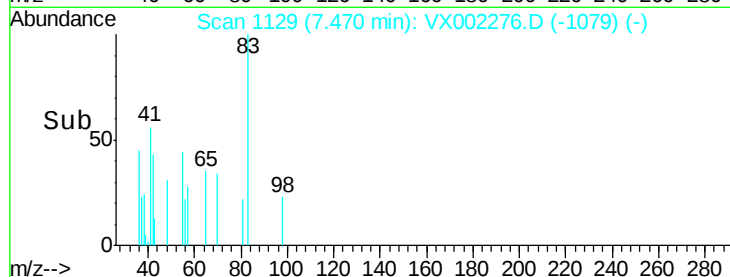
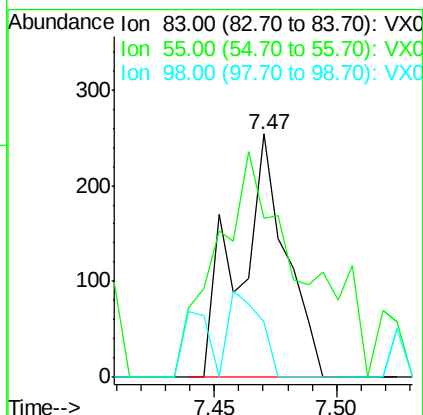
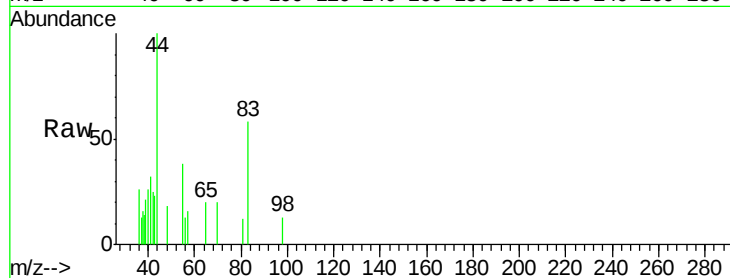




#39
Methvlcvclohexane
Concen: 0.33 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

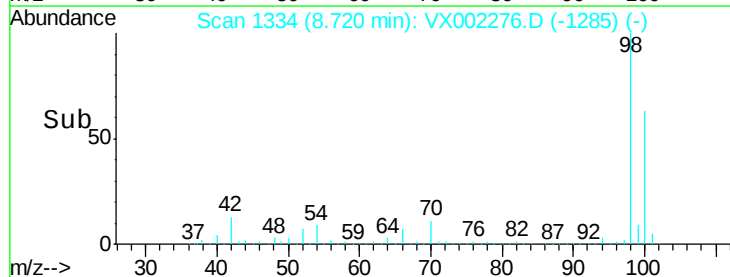
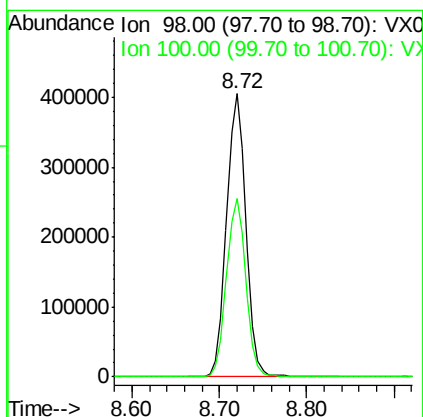
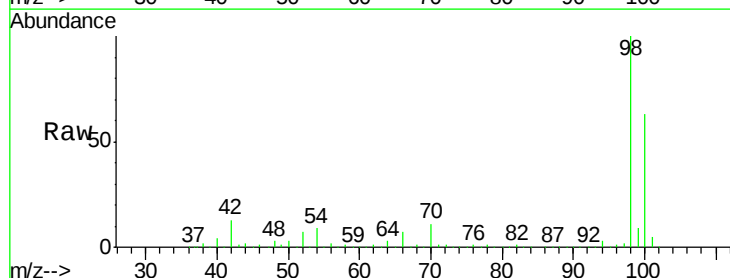
Instrument :
MSVOA_X
ClientSampleId :

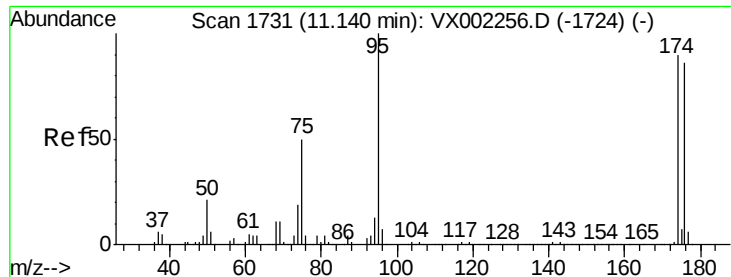
Tot Ion: 83 Resp: 341
Ion Ratio Lower Upper
83 100
55 37.0 65.4 98.0#
98 22.8 37.4 56.0#



#50
Toluene-d8
Concen: 52.68 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Tgt Ion: 98 Resp: 621757
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 48.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

ClientSampleId :

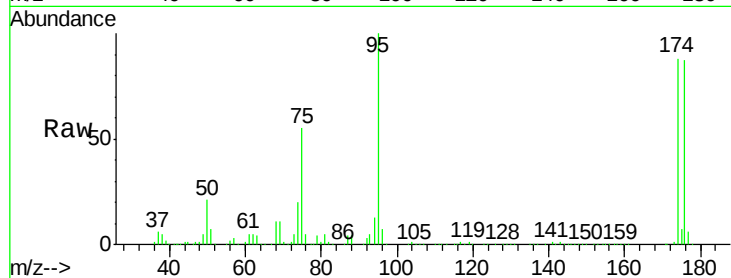
Tot Ion: 95 Resp: 220147

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.4

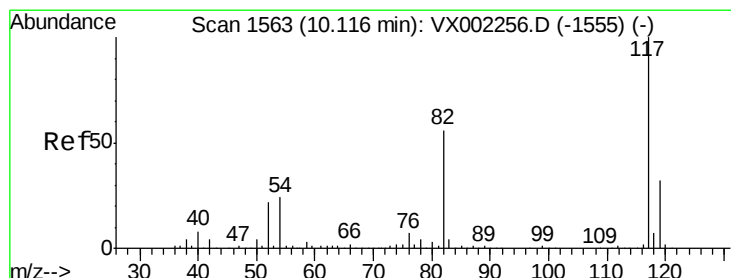
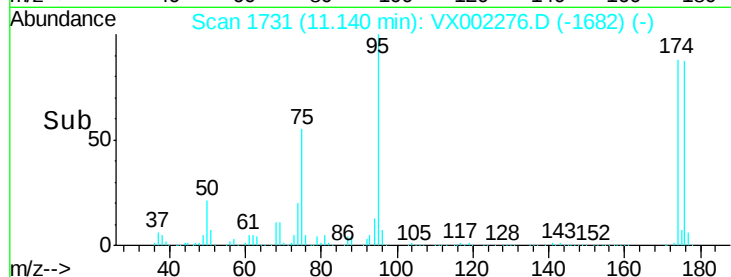
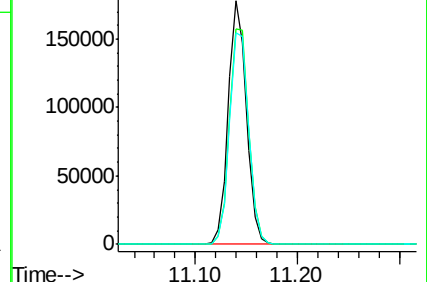
176 91.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

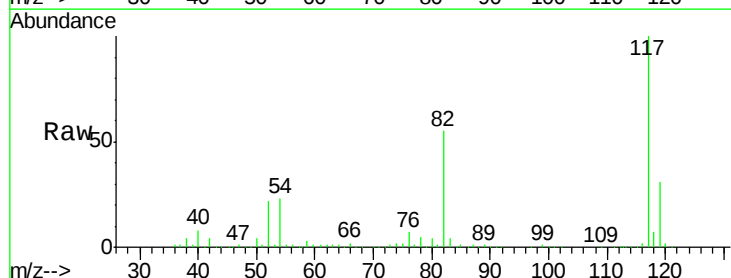
Tgt Ion: 117 Resp: 364214

Ion Ratio Lower Upper

117 100

82 54.9 45.0 67.4

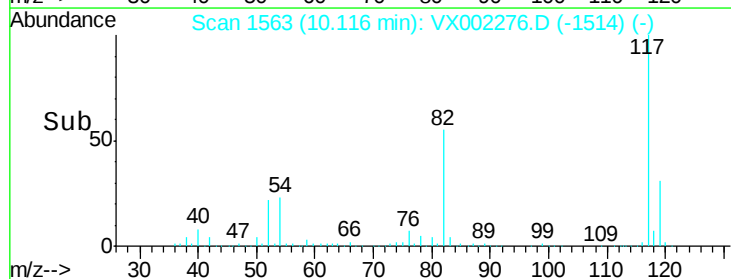
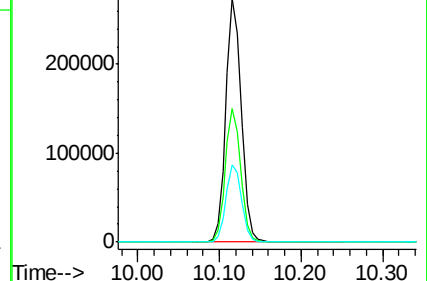
119 31.5 25.8 38.6

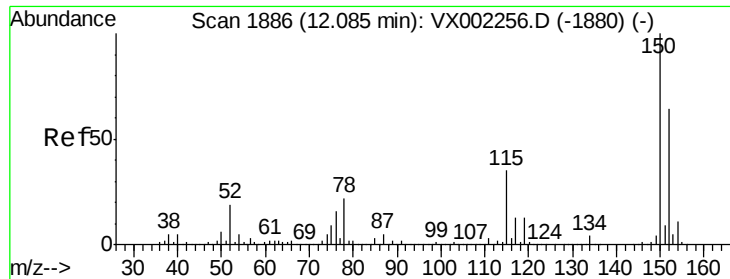


Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002276.D

Acq: 04 Jun 2018 23:13

Instrument :

MSVOA_X

ClientSampleId :

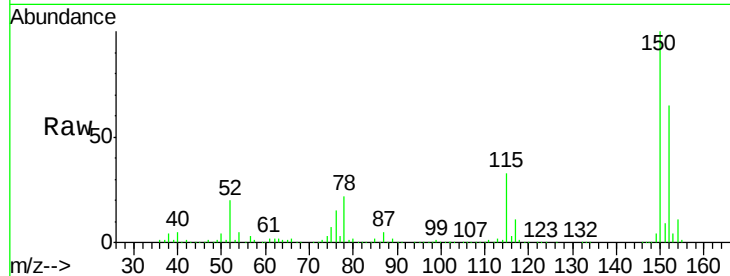
Tot Ion:152 Resp: 212360

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

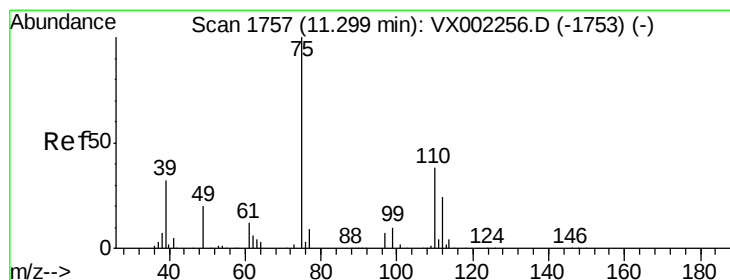
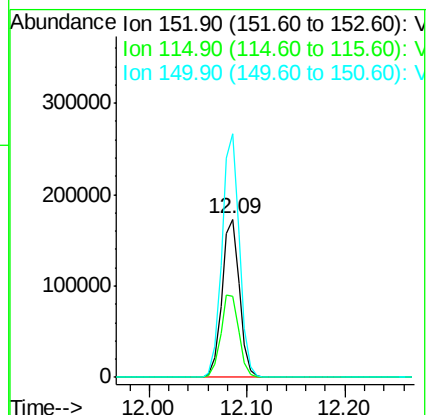
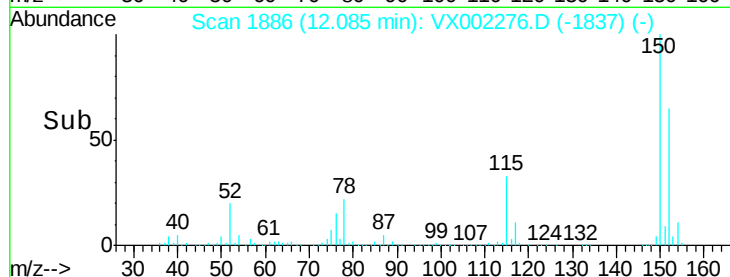
150 153.8 0.0 347.2



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: 25.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002276.D

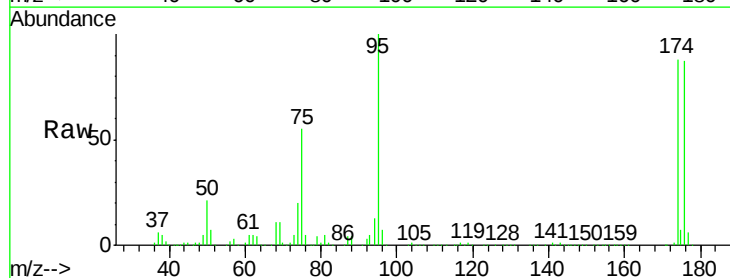
Acq: 04 Jun 2018 23:13

Tgt Ion: 75 Resp: 119665

Ion Ratio Lower Upper

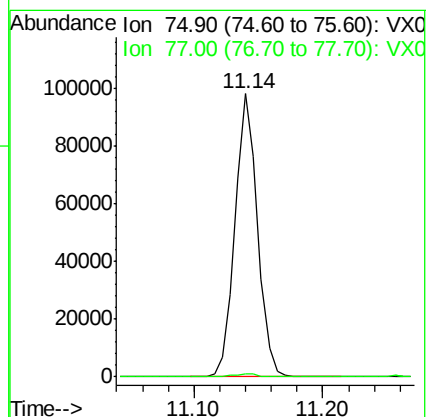
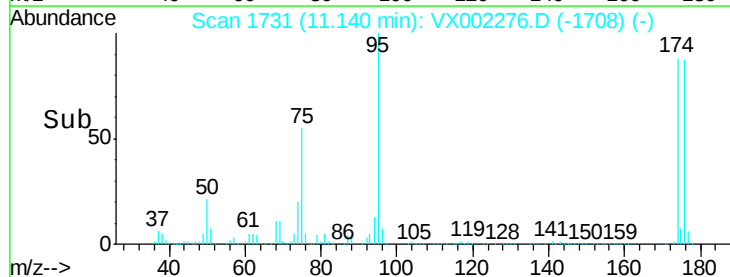
75 100

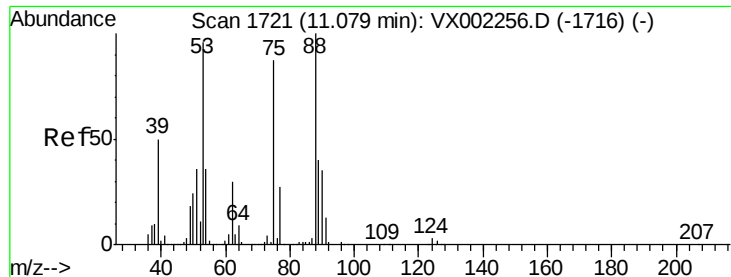
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

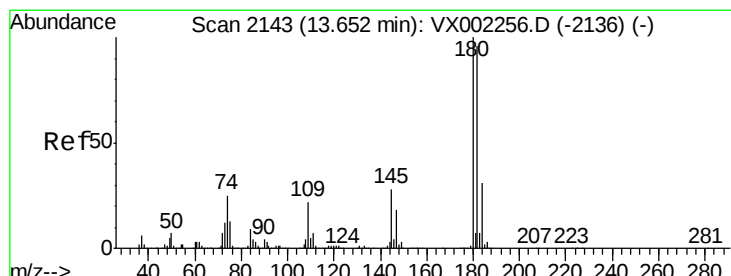
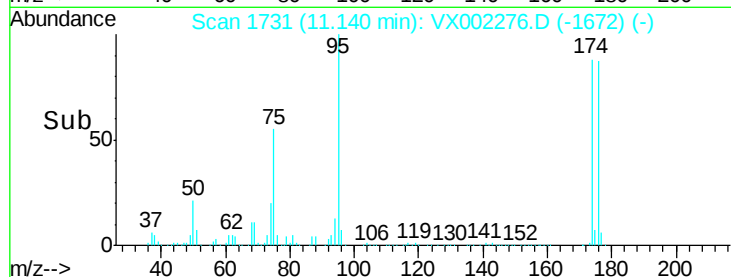
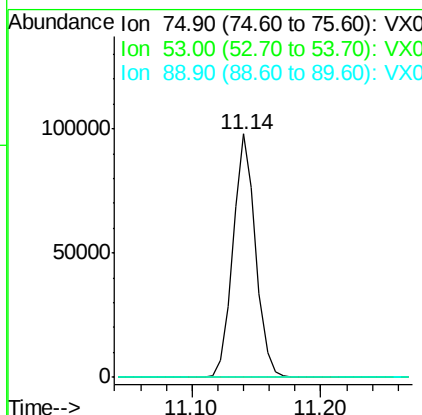
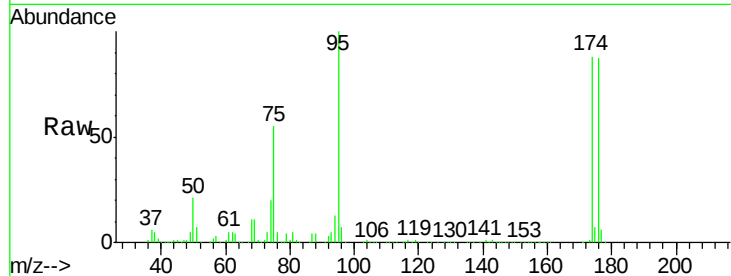




#81
trans-1,4-Dichloro-2-butene
Concen: 90.02 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 119665
Ion Ratio Lower Upper
75 100
53 0.0 86.8 130.2#
89 0.0 38.2 57.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.26 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VX002276.D
Acq: 04 Jun 2018 23:13

Tgt Ion:180 Resp: 1372
Ion Ratio Lower Upper
180 100
182 103.9 47.7 143.1
145 32.9 14.1 42.4

