

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\
 Data File : VX002425.D
 Acq On : 09 Jun 2018 17:02
 Operator : JC/MD
 Sample : J3396-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 11 04:07:45 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	222311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	324147	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	297859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	161973	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	153482	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
35) Dibromofluoromethane	5.51	113	116562	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	
50) Toluene-d8	8.72	98	463142	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
62) 4-Bromofluorobenzene	11.14	95	159511	42.34	ug/l	0.00
Spiked Amount			Recovery	=	84.68%	

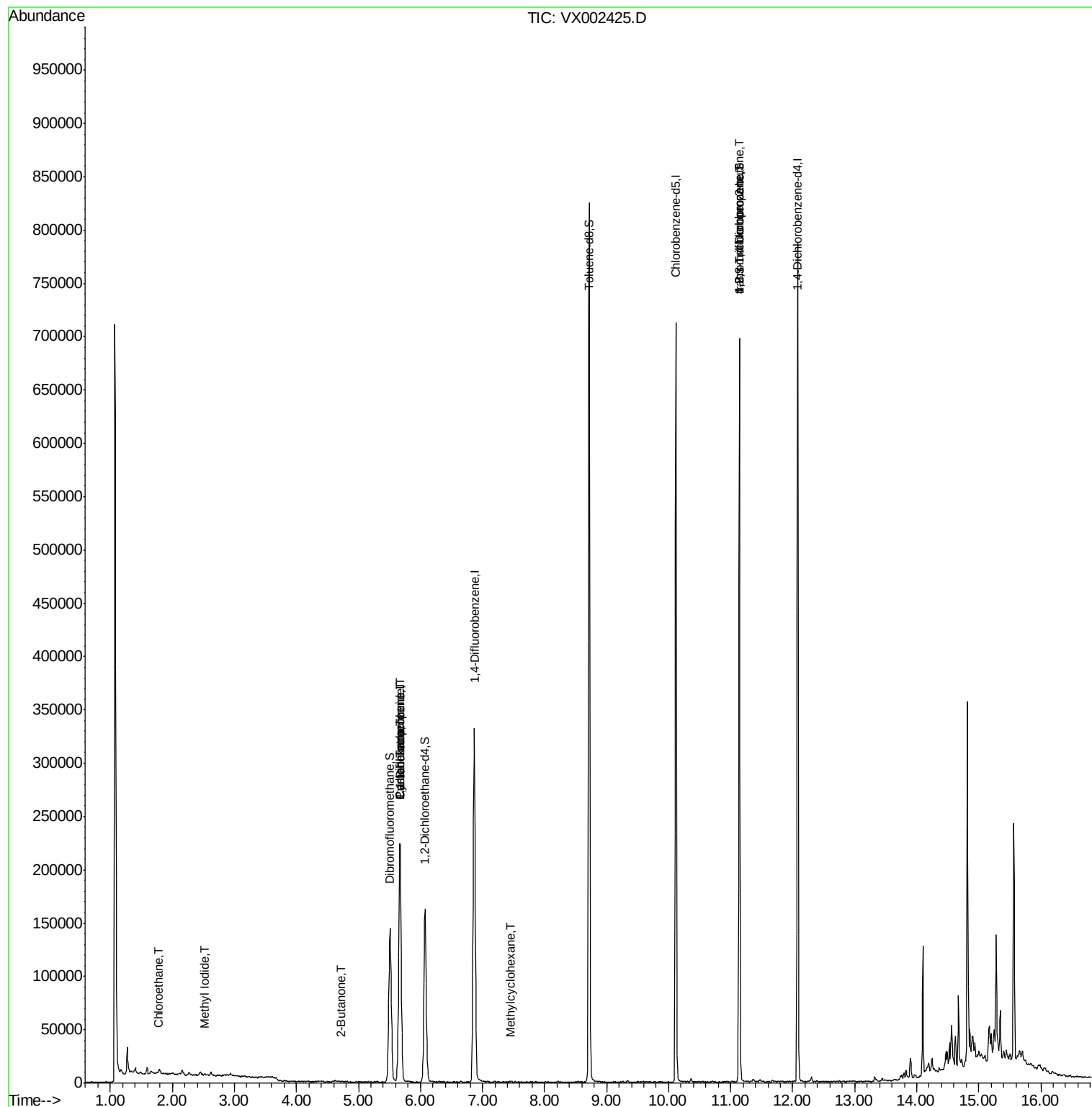
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	546	Below Cal		94
5) Bromomethane	1.65	94	1631	Below Cal		82
6) Chloroethane	1.77	64	521	0.28 ug/l	#	45
8) Diethyl Ether	2.17	74	47	Below Cal	#	1
10) Methyl Iodide	2.52	142	1852	0.55 ug/l	#	93
11) Tert butyl alcohol	3.08	59	207	Below Cal	#	30
13) Acrolein	2.31	56	34	Below Cal	#	14
15) Acrylonitrile	3.18	53	106	Below Cal	#	1
16) Acetone	2.45	43	3668	Below Cal		93
18) Methyl Acetate	2.77	43	177	Below Cal	#	55
19) Methyl tert-butyl Ether	3.21	73	46	Below Cal	#	20
20) Methylene Chloride	2.85	84	511	Below Cal	#	72
22) Diisopropyl ether	3.88	45	311	Below Cal	#	35
25) 2-Butanone	4.72	43	566	0.26 ug/l	#	52
28) Bromochloromethane	4.98	49	20	Below Cal	#	6
31) Cyclohexane	5.67	56	4898	1.22 ug/l	#	21
36) 1,1-Dichloropropene	5.66	75	15890	4.66 ug/l	#	41
38) Carbon Tetrachloride	5.67	117	20900	5.86 ug/l	#	14
39) Methylcyclohexane	7.45	83	98	0.29 ug/l	#	26
76) 1,2,3-Trichloropropane	11.14	75	86458	24.33 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86458	85.27 ug/l	#	6

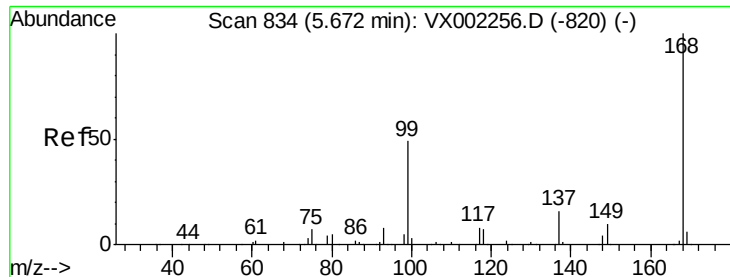
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

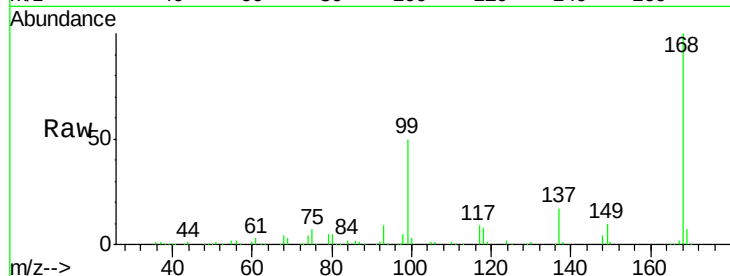
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 222311

Ion Ratio Lower Upper

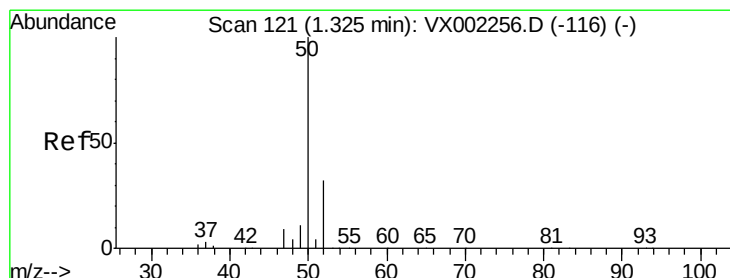
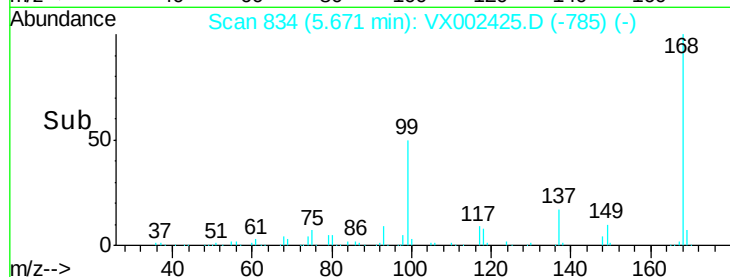
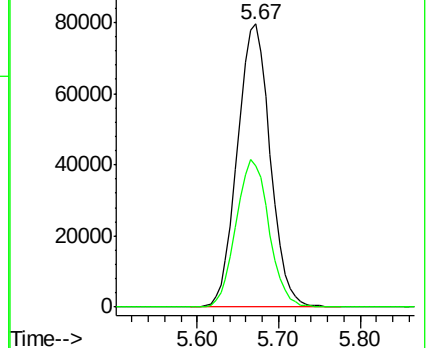
168 100

99 50.1 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: VX002425.D

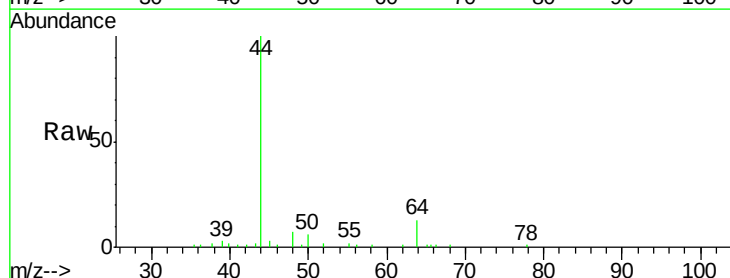
Acq: 09 Jun 2018 17:02

Tgt Ion: 50 Resp: 546

Ion Ratio Lower Upper

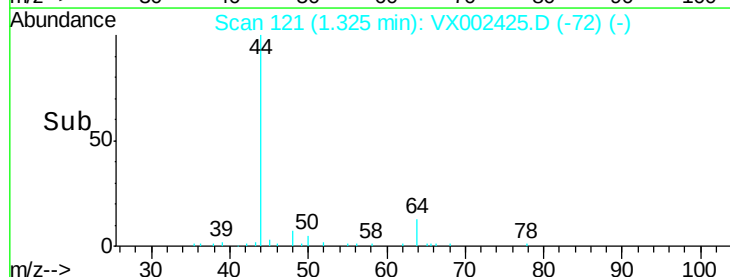
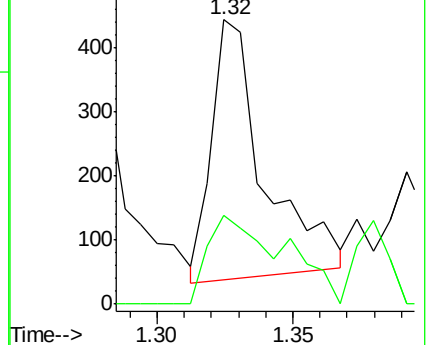
50 100

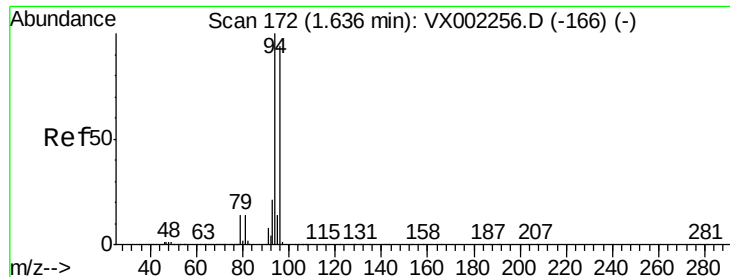
52 35.5 25.7 38.5



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: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

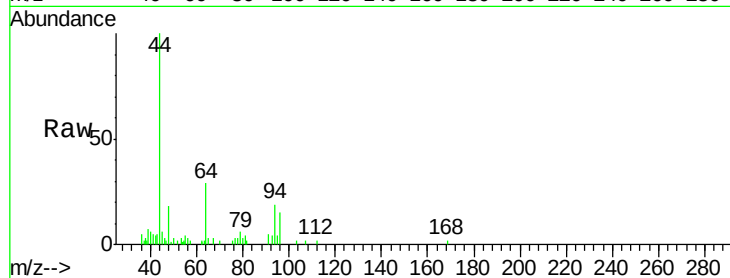
ClientSampled :

Tot Ion: 94 Resp: 1631

Ion Ratio Lower Upper

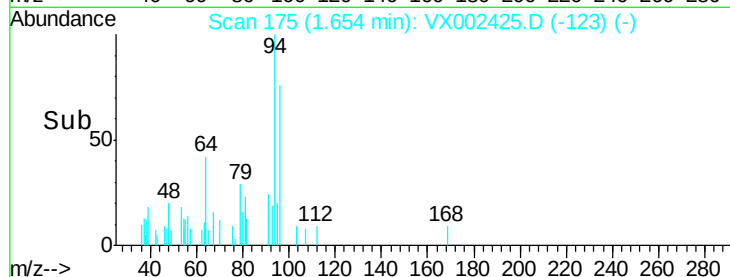
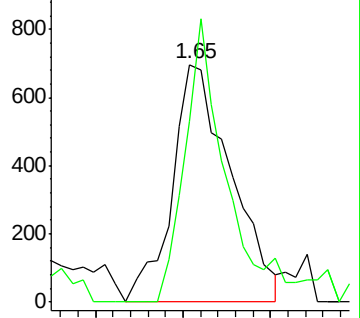
94 100

96 76.1 74.9 112.3

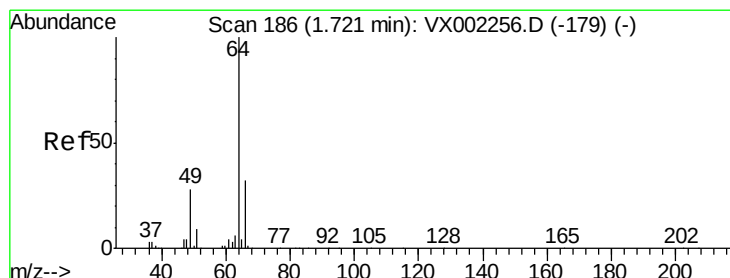


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.28 ug/l

RT: 1.77 min Scan# 194

Delta R.T. 0.05 min

Lab File: VX002425.D

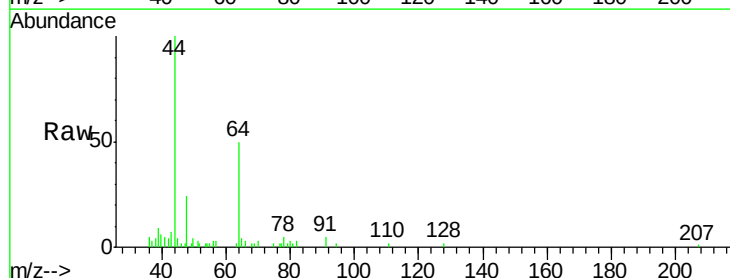
Acq: 09 Jun 2018 17:02

Tgt Ion: 64 Resp: 521

Ion Ratio Lower Upper

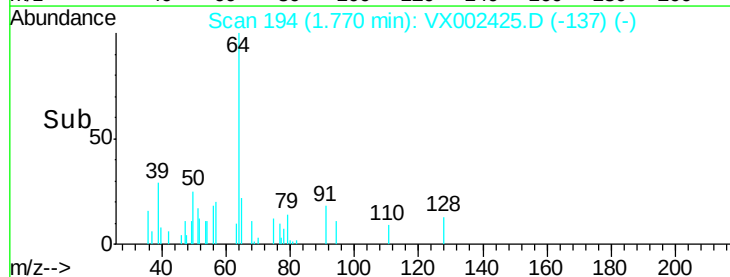
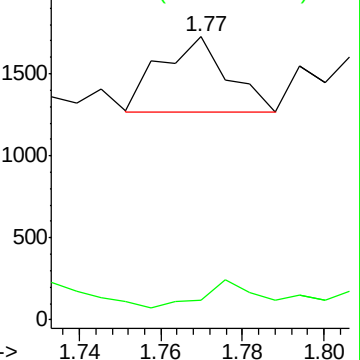
64 100

66 1.1 25.5 38.3#

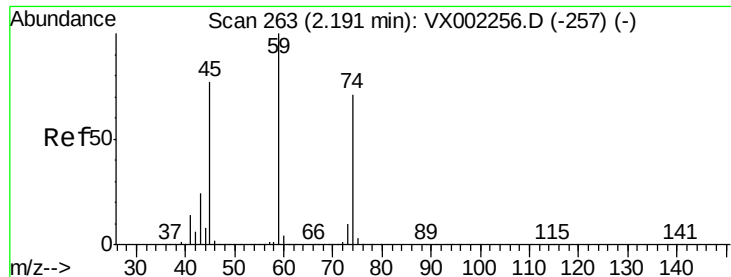


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



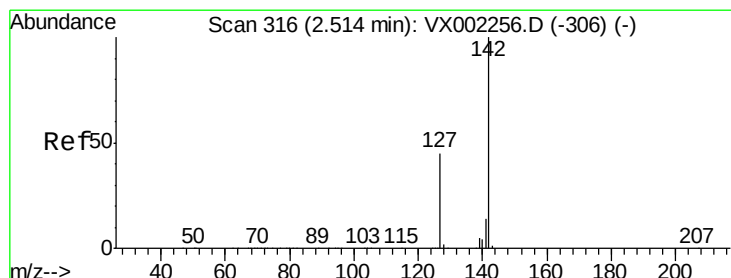
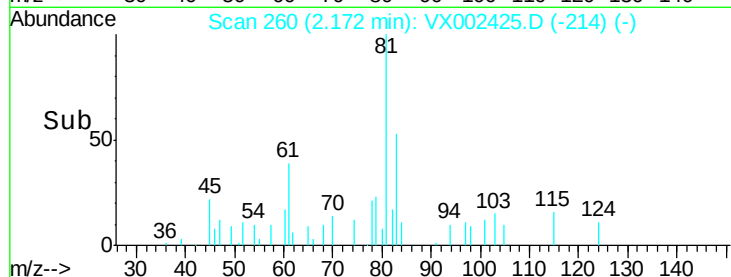
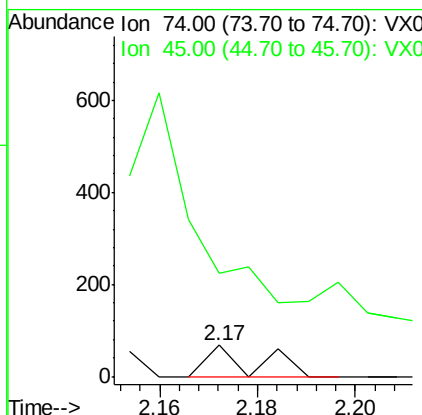
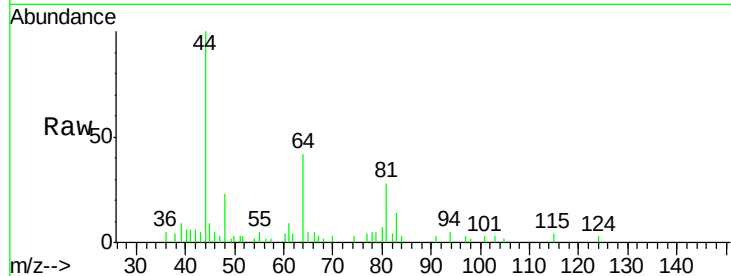
Time-->



#8
Diethyl Ether
Concen: Below Cal
RT: 2.17 min Scan# 260
Delta R.T. -0.02 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

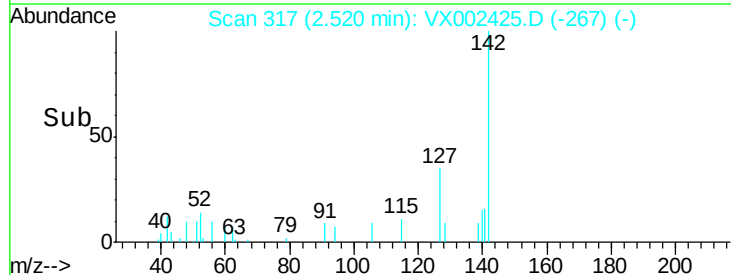
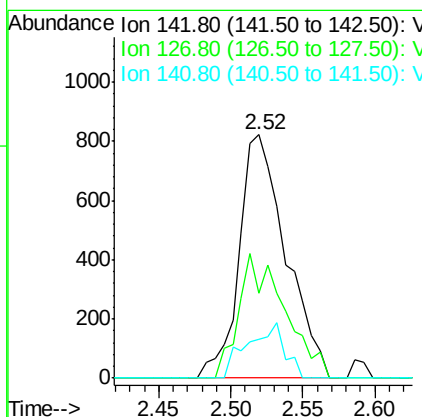
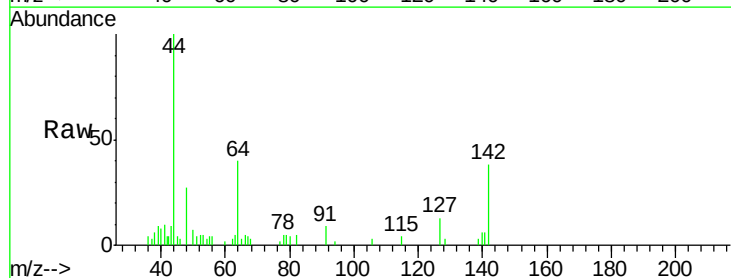
Instrument :
MSVOA_X
ClientSampleId :

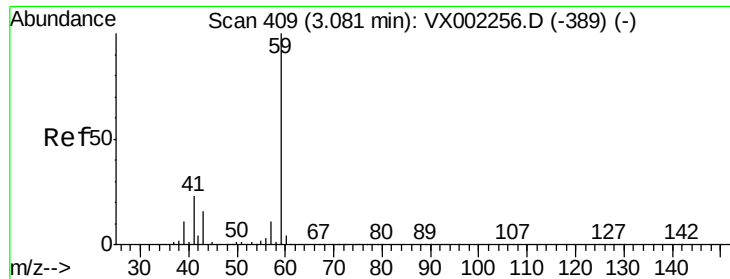
Tot Ion: 74 Resp: 47
Ion Ratio Lower Upper
74 100
45 0.0 53.1 159.4#



#10
Methyl Iodide
Concen: 0.55 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Tgt Ion: 142 Resp: 1852
Ion Ratio Lower Upper
142 100
127 50.1 36.6 55.0
141 18.0 11.3 16.9#



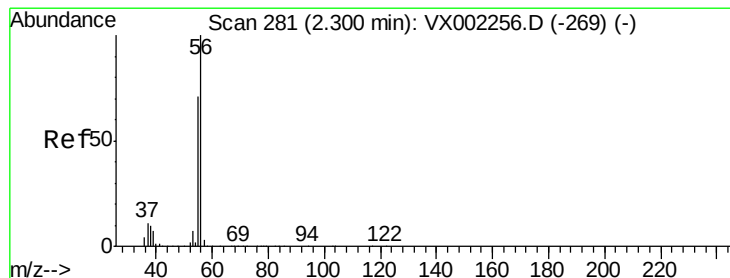
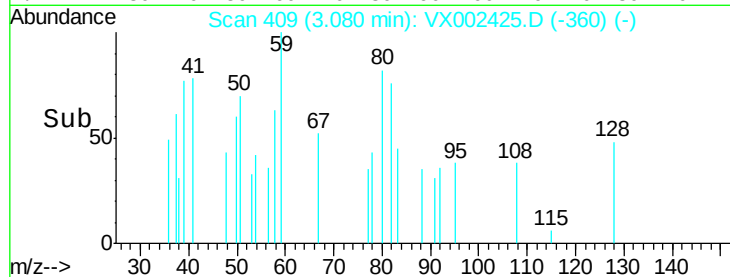
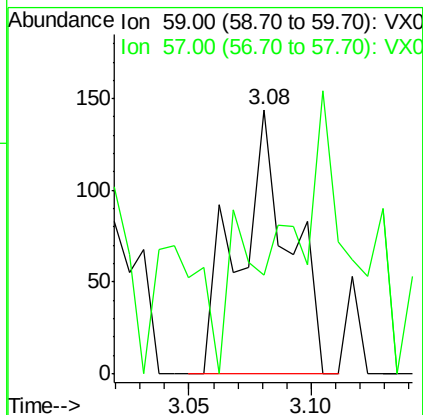
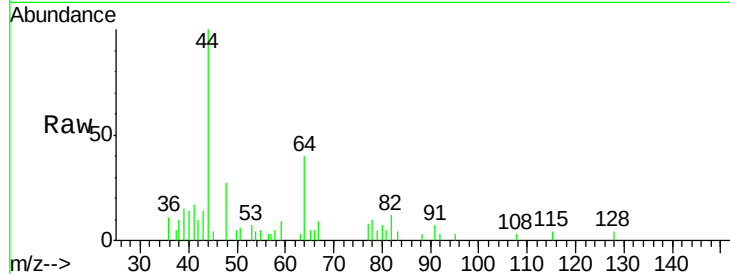


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Instrument :
MSVOA_X
ClientSampled :

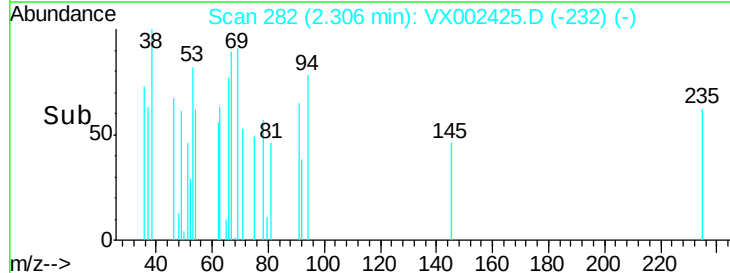
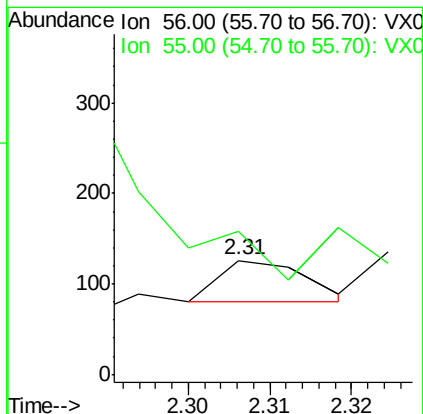
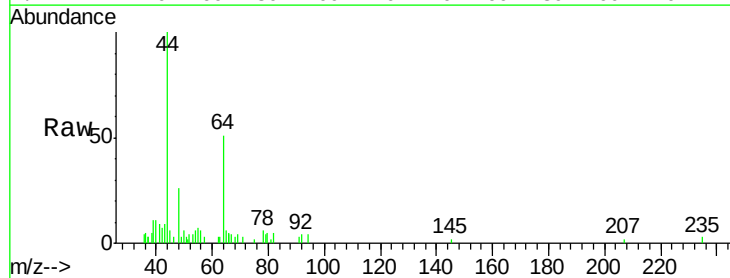
Tot Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 36.2 8.2 12.2#

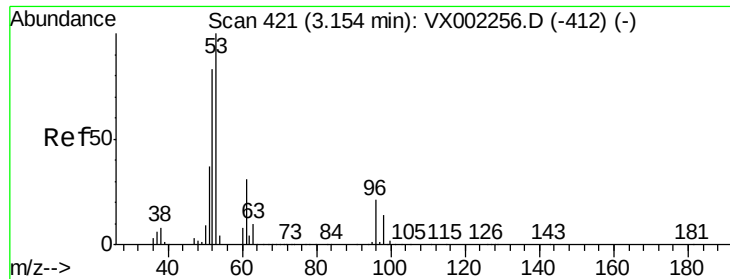


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Tgt Ion: 56 Resp: 34
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.18 min Scan# 425

Delta R.T. 0.02 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

ClientSampled :

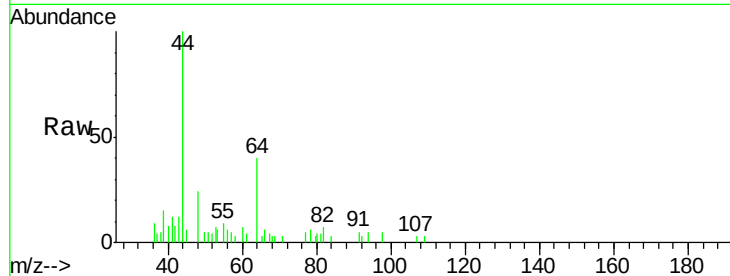
Tot Ion: 53 Resp: 106

Ion Ratio Lower Upper

53 100

52 186.8 66.7 100.1#

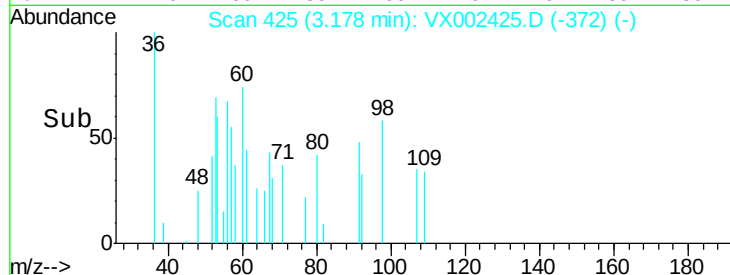
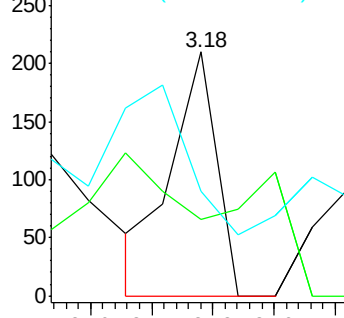
51 94.3 29.9 44.9#



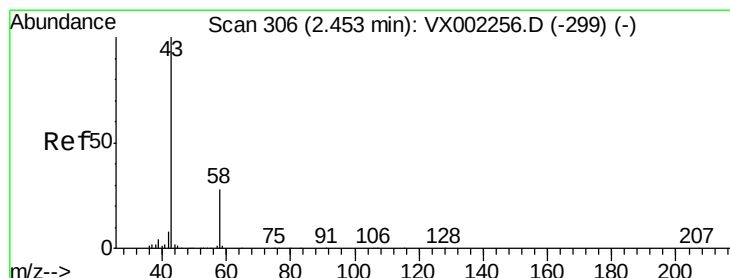
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002425.D

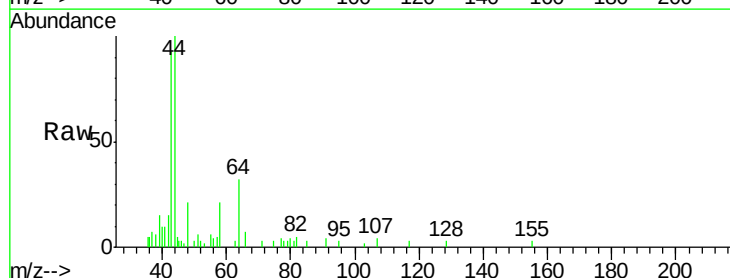
Acq: 09 Jun 2018 17:02

Tgt Ion: 43 Resp: 3668

Ion Ratio Lower Upper

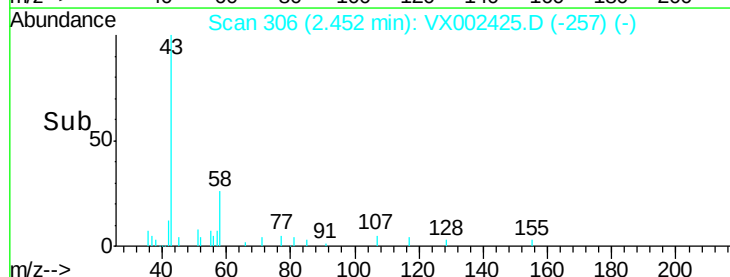
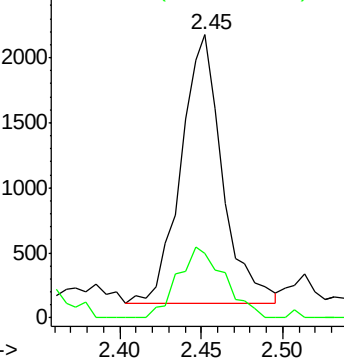
43 100

58 24.1 22.1 33.1

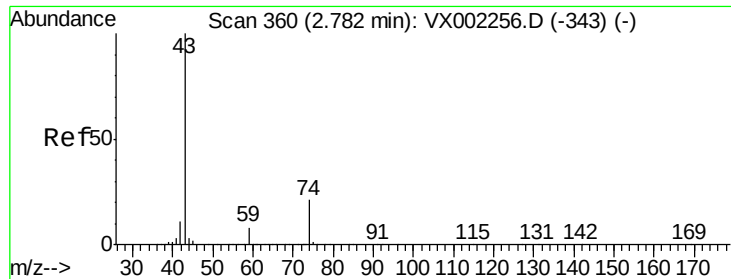


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



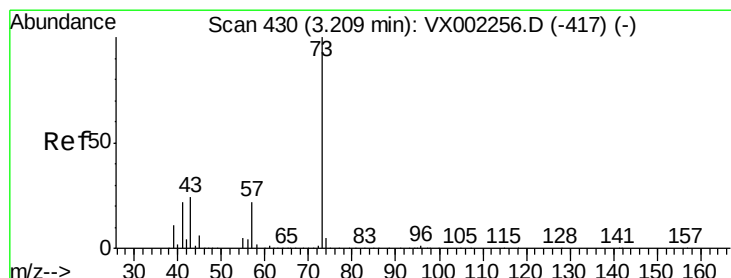
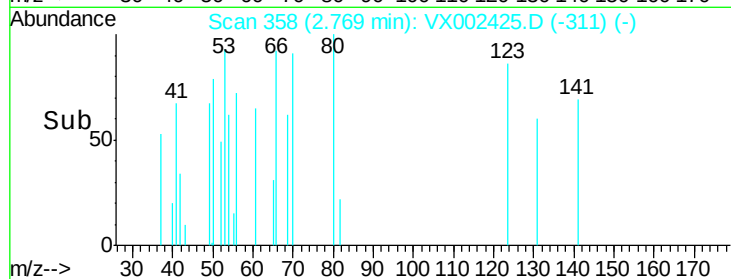
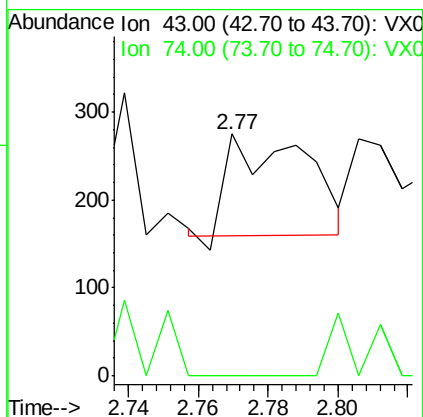
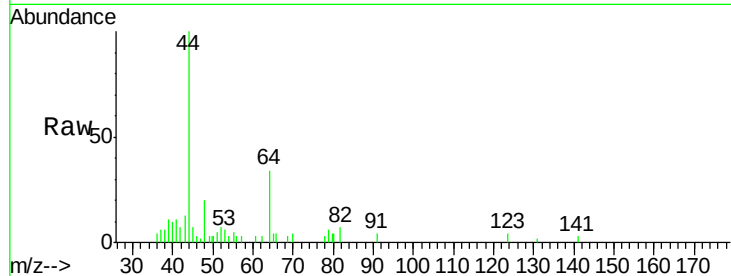
Time-->



#18
Methyl Acetate
Concen: Below Cal
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

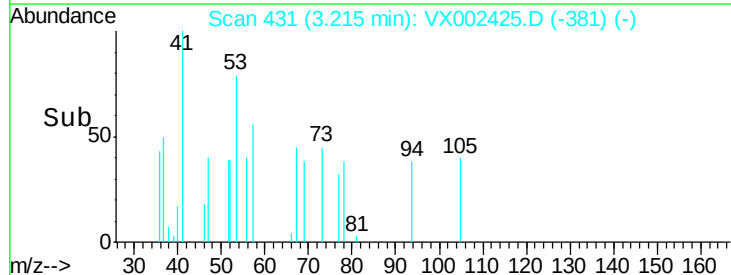
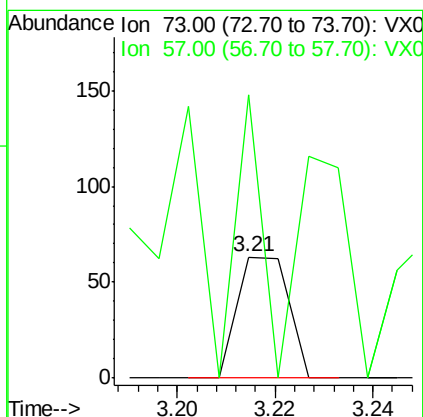
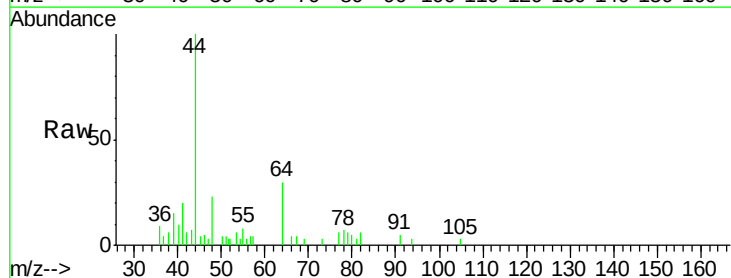
Instrument :
MSVOA_X
ClientSampled :

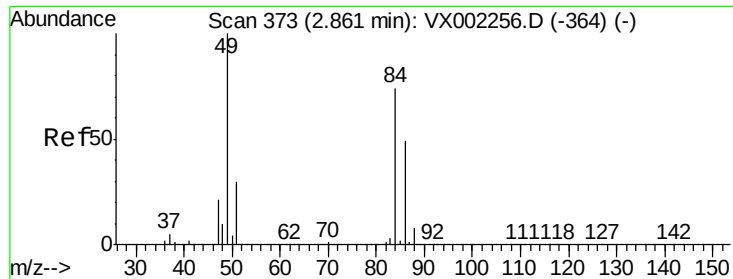
Tot Ion: 43 Resp: 177
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Tgt Ion: 73 Resp: 46
Ion Ratio Lower Upper
73 100
57 60.3 17.7 26.5#

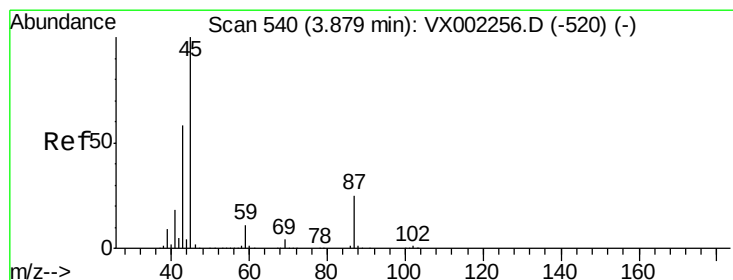
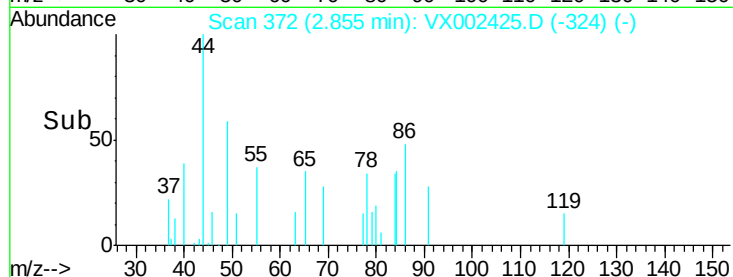
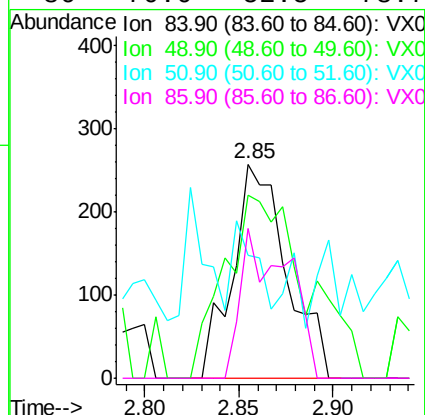
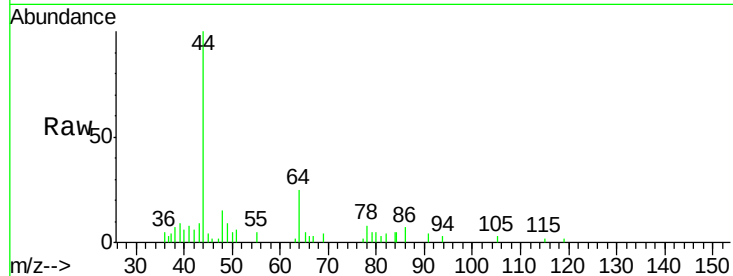




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

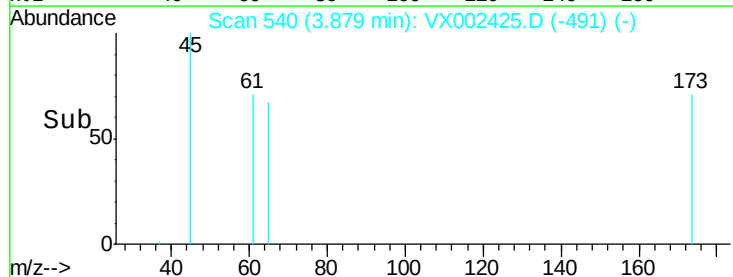
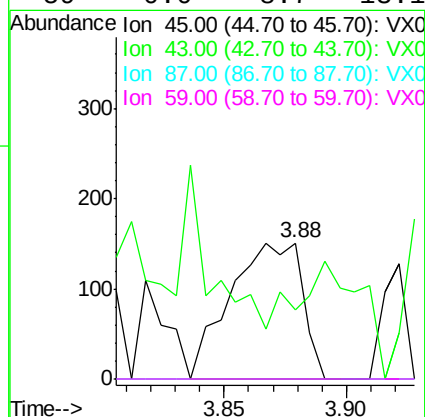
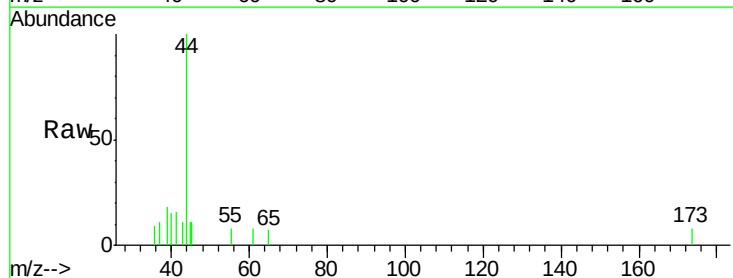
Instrument :
MSVOA_X
ClientSampleId :

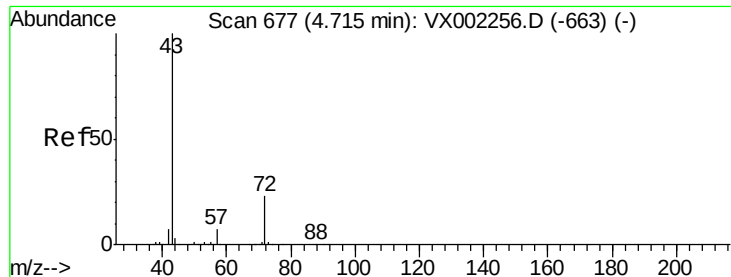
Tot Ion: 84 Resp: 511
Ion Ratio Lower Upper
84 100
49 85.6 107.8 161.6#
51 28.0 32.8 49.2#
86 70.0 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Tgt Ion: 45 Resp: 311
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 0.26 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

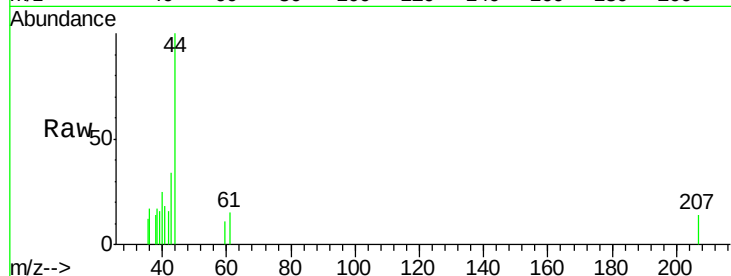
ClientSampled :

Tot Ion: 43 Resp: 566

Ion Ratio Lower Upper

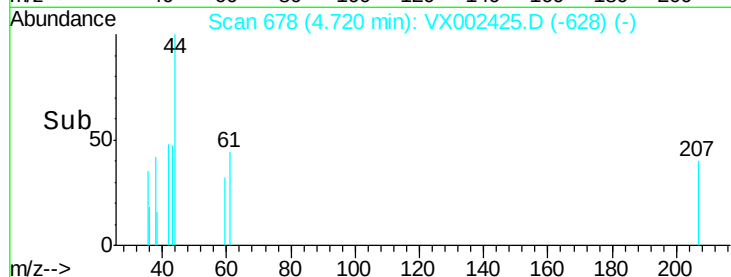
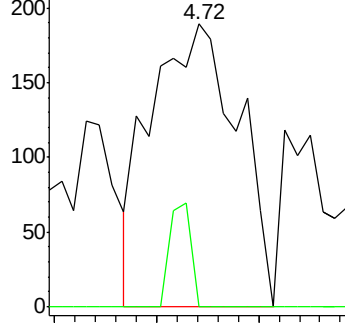
43 100

72 0.0 18.5 27.7#

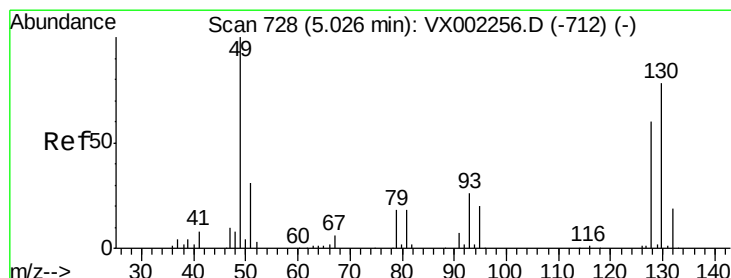


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 4.98 min Scan# 720

Delta R.T. -0.05 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

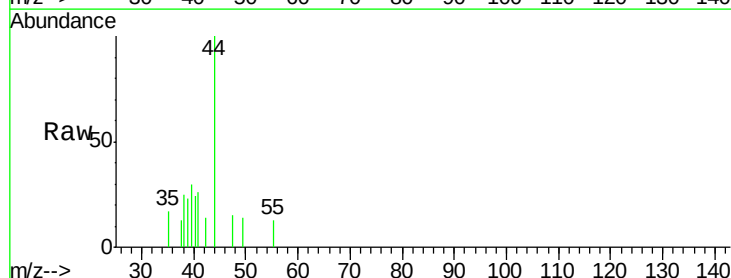
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 100.0 0.0 4.2#

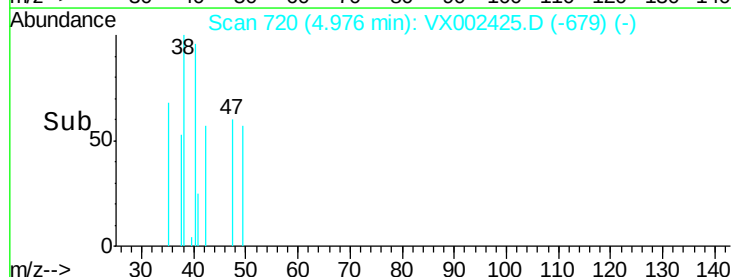
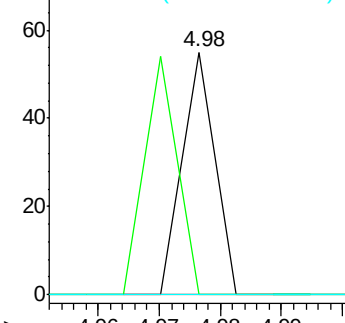
130 0.0 61.2 91.8#



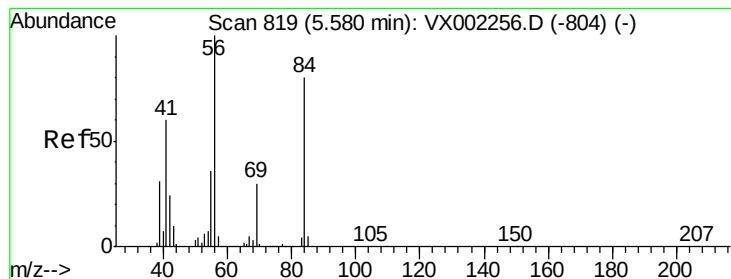
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#31

Cyclohexane

Concen: 1.22 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

ClientSampleId :

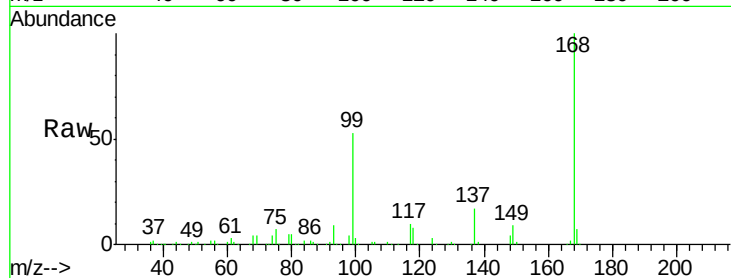
Tot Ion: 56 Resp: 4898

Ion Ratio Lower Upper

56 100

69 149.9 23.7 35.5#

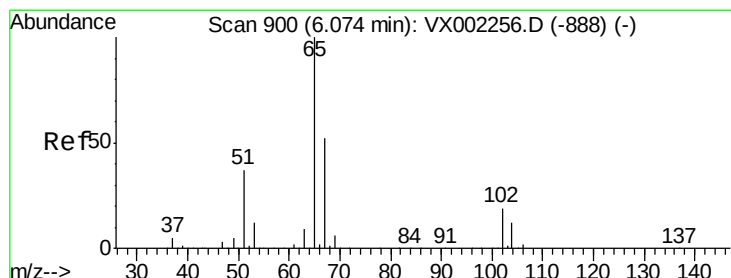
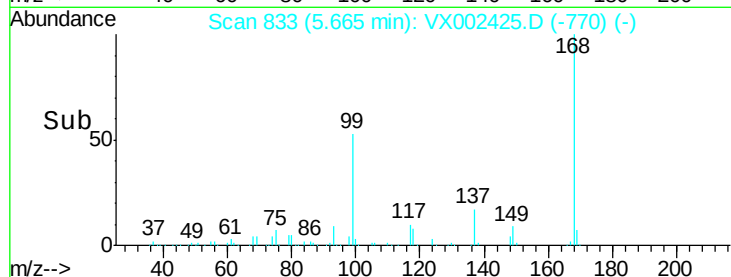
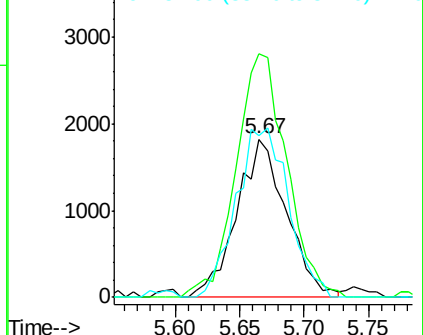
84 102.2 64.1 96.1#



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: 48.15 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002425.D

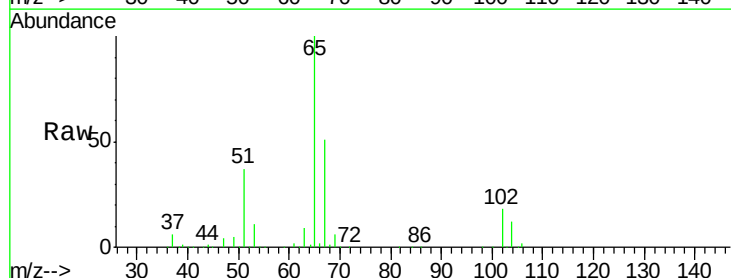
Acq: 09 Jun 2018 17:02

Tgt Ion: 65 Resp: 153482

Ion Ratio Lower Upper

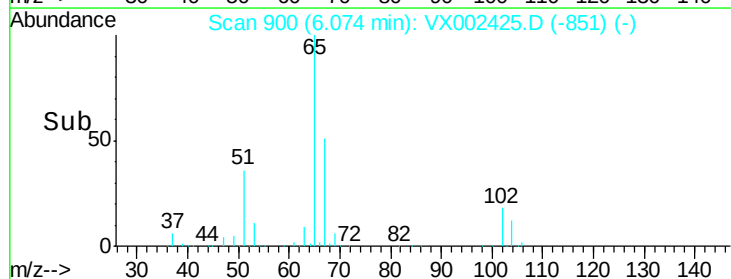
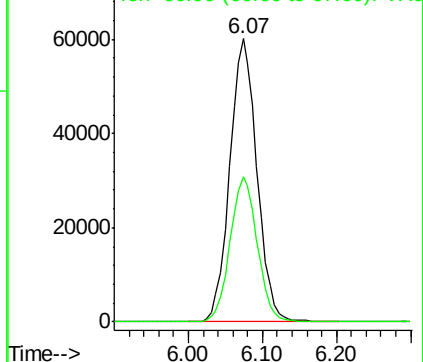
65 100

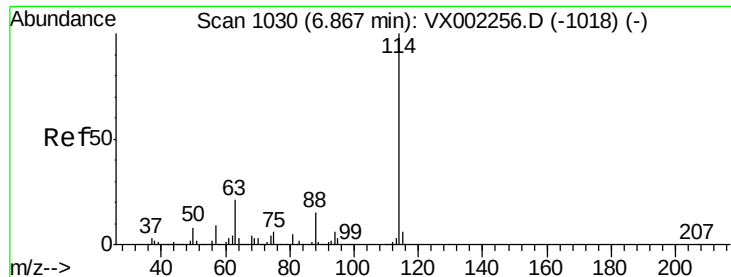
67 51.3 0.0 102.6



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: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

ClientSampleId :

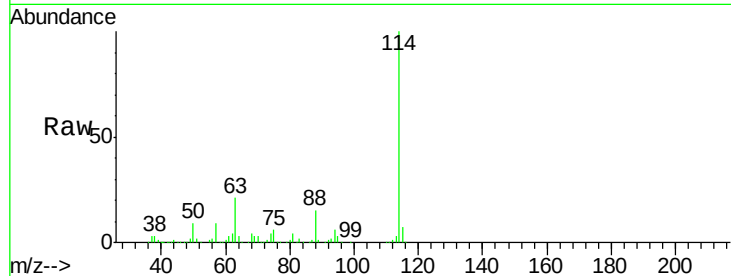
Tot Ion:114 Resp: 324147

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.4

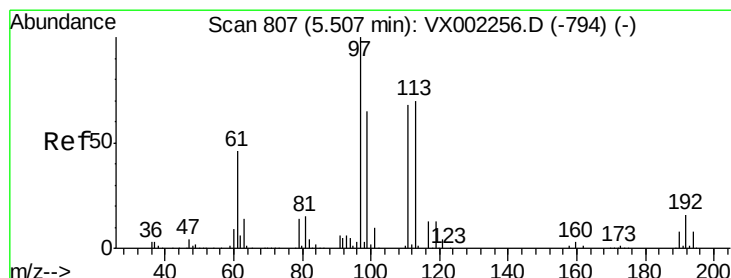
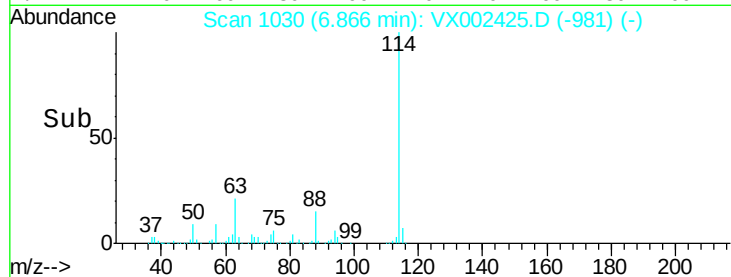
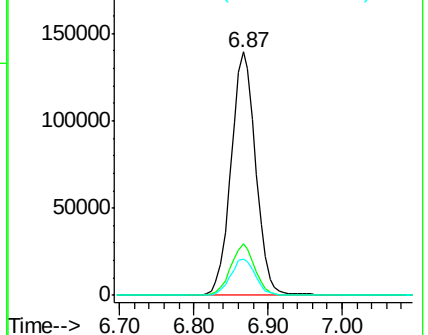
88 15.0 0.0 30.0



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: 45.73 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

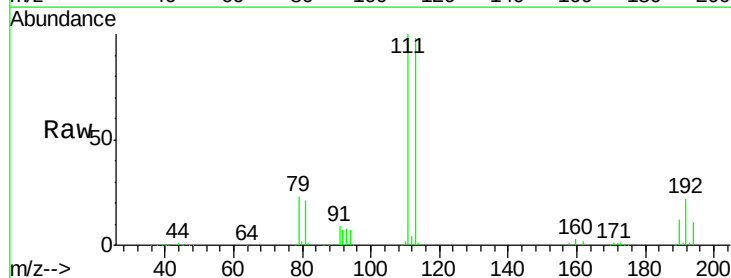
Tgt Ion:113 Resp: 116562

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

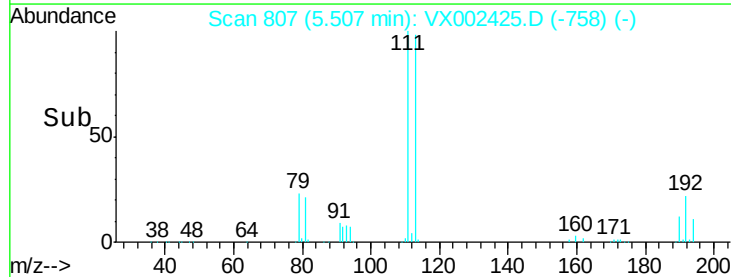
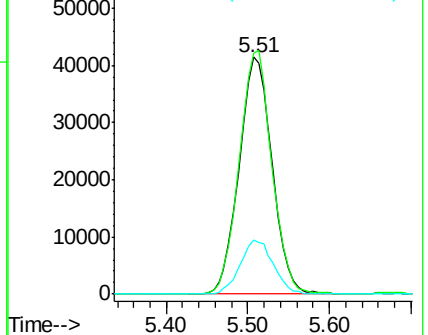
192 22.8 19.1 28.7

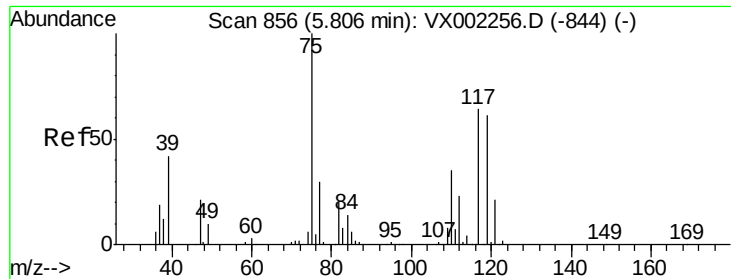


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

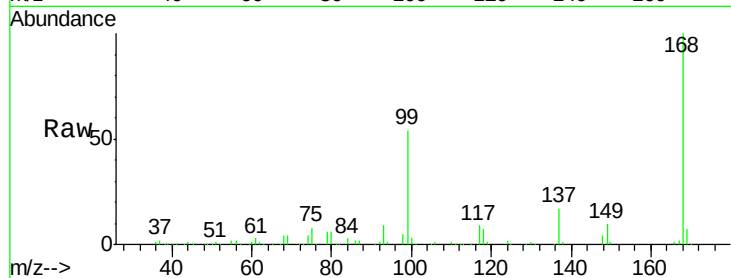




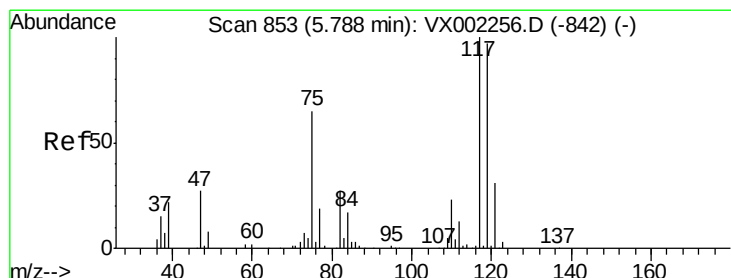
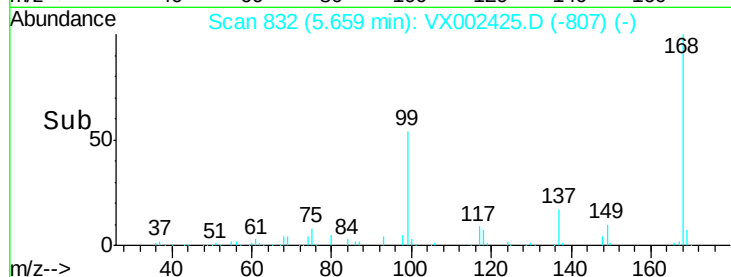
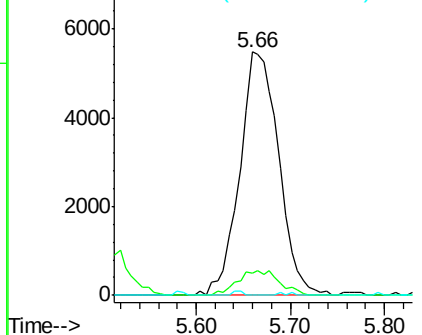
#36
 1,1-Dichloropropene
 Concen: 4.66 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.15 min
 Lab File: VX002425.D
 Acq: 09 Jun 2018 17:02

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 15890
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.4#
 77 0.4 24.3 36.5#

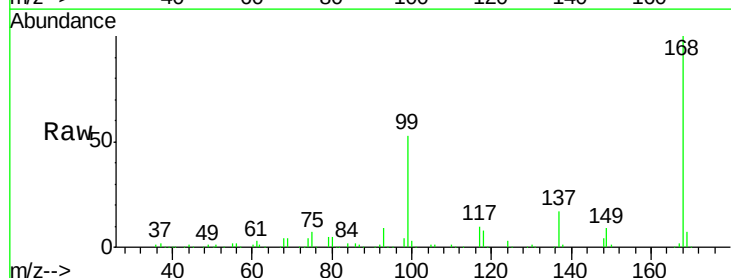


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

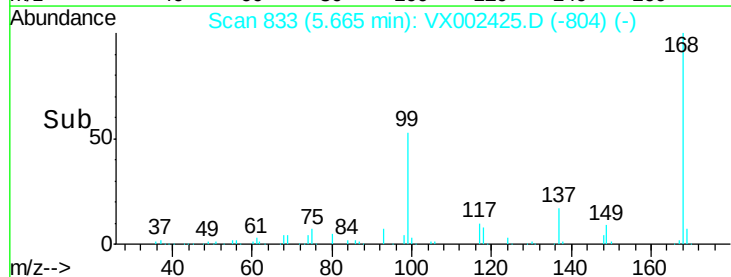
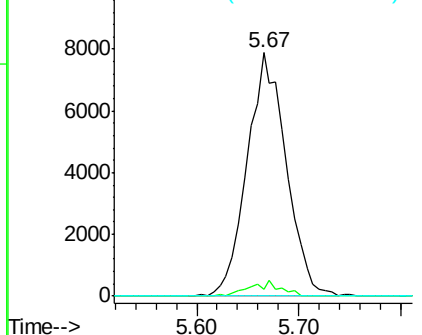


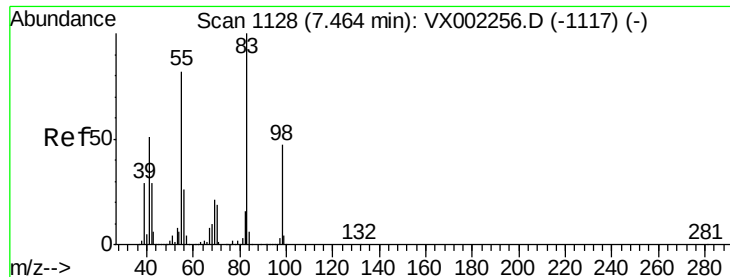
#38
 Carbon Tetrachloride
 Concen: 5.86 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002425.D
 Acq: 09 Jun 2018 17:02

Tgt Ion: 117 Resp: 20900
 Ion Ratio Lower Upper
 117 100
 119 2.9 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

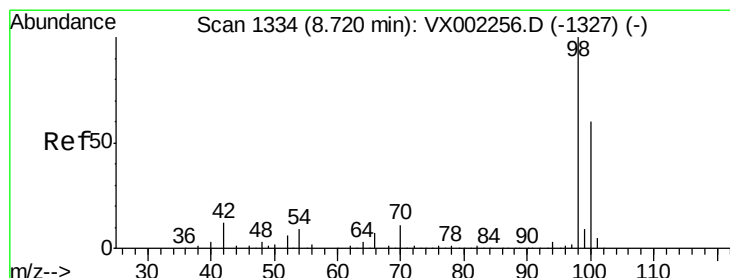
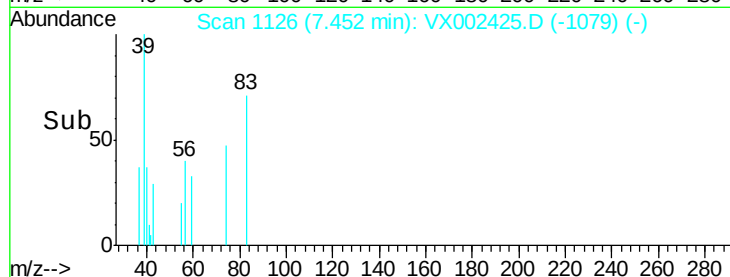
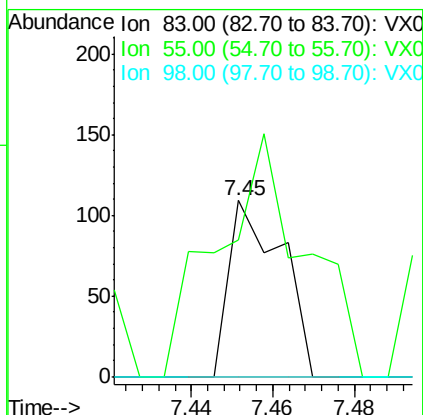
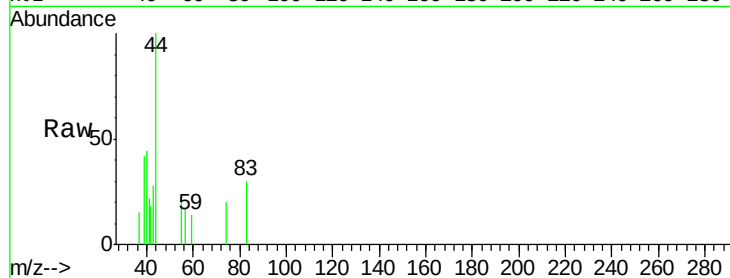




#39
Methylcyclohexane
Concen: 0.29 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

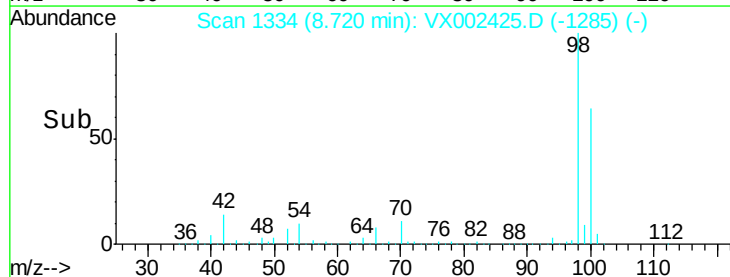
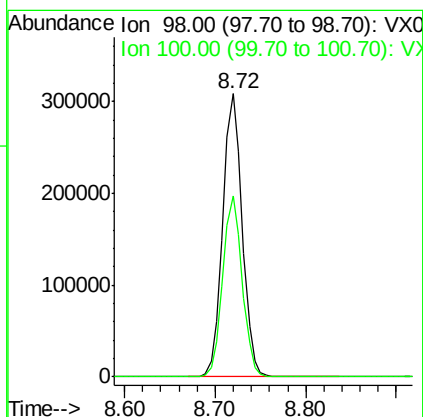
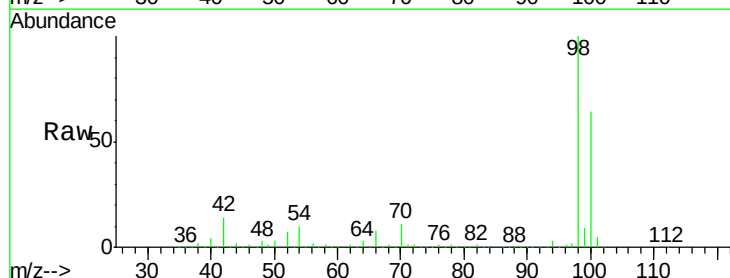
Instrument :
MSVOA_X
ClientSampleId :

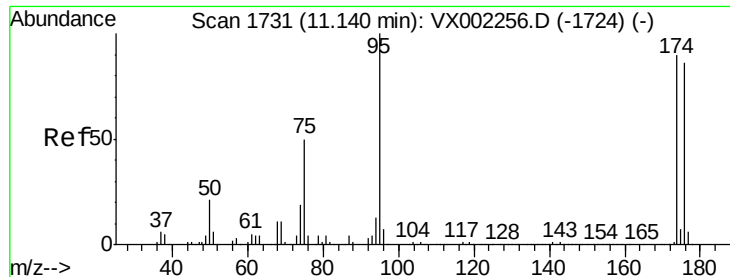
Tot Ion: 83 Resp: 98
Ion Ratio Lower Upper
83 100
55 13.8 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 47.40 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Tgt Ion: 98 Resp: 463142
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3

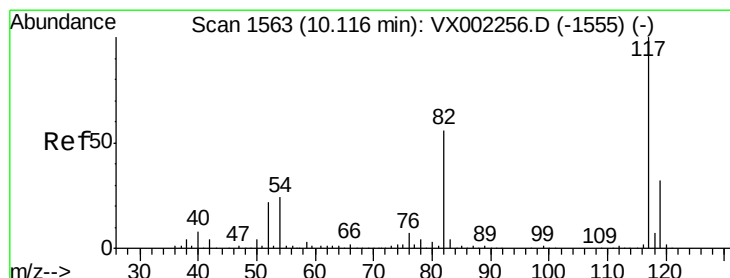
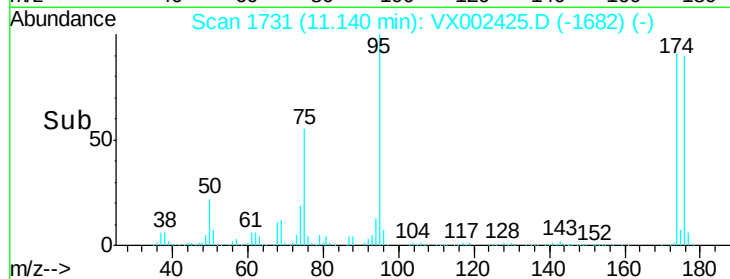
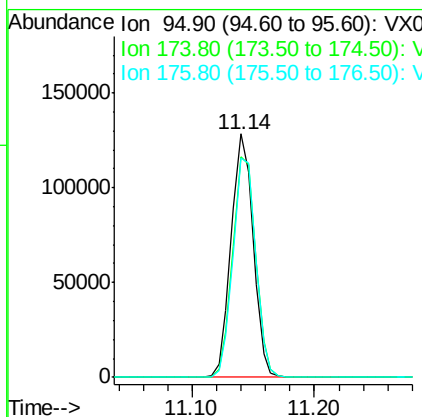
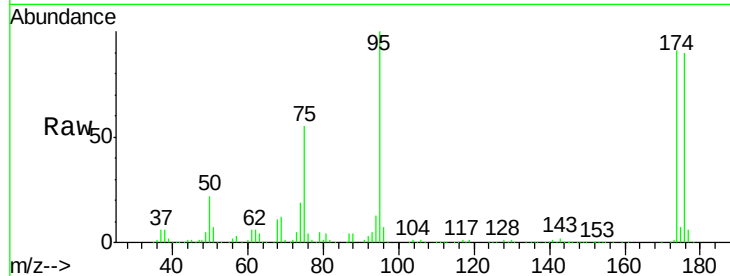




#62
4-Bromofluorobenzene
Concen: 42.34 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

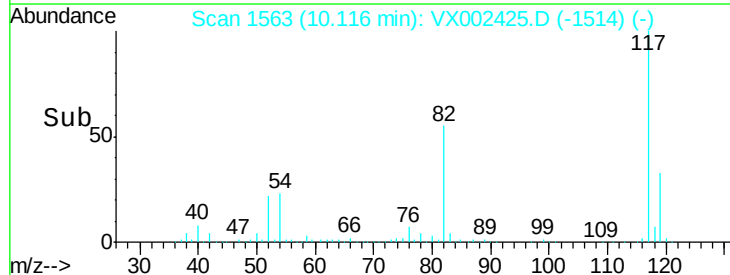
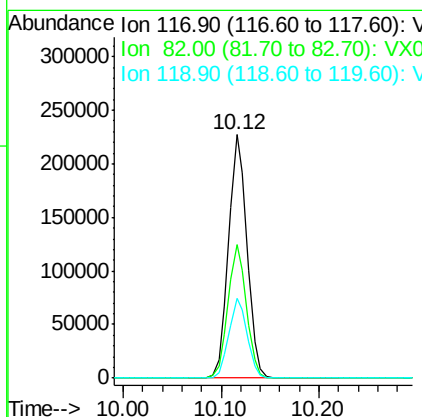
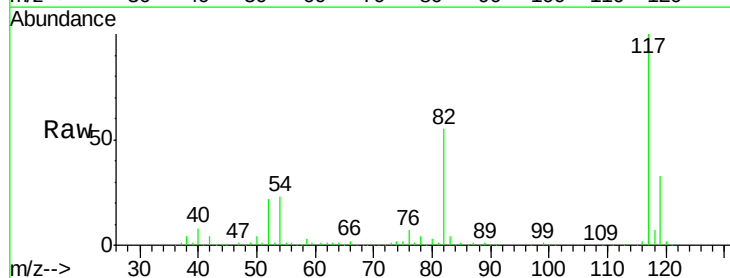
Instrument :
MSVOA_X
ClientSampleId :

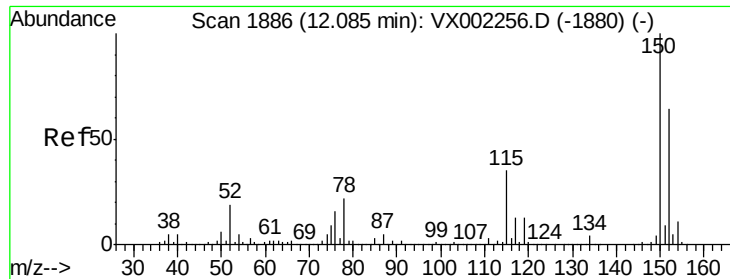
Tot Ion: 95 Resp: 159511
Ion Ratio Lower Upper
95 100
174 94.6 0.0 187.4
176 92.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002425.D
Acq: 09 Jun 2018 17:02

Tgt Ion: 117 Resp: 297859
Ion Ratio Lower Upper
117 100
82 55.0 45.0 67.4
119 32.7 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: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

ClientSampled :

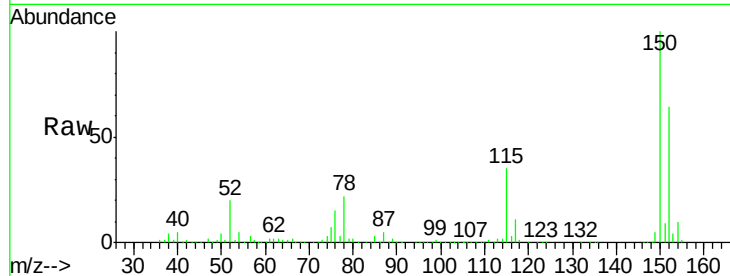
Tot Ion:152 Resp: 161973

Ion Ratio Lower Upper

152 100

115 56.4 40.1 120.2

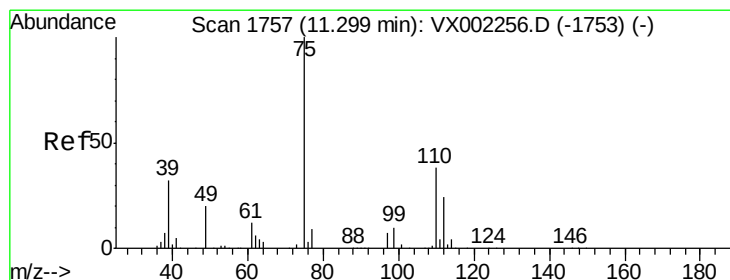
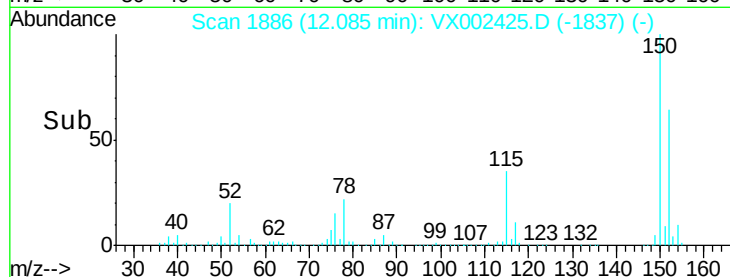
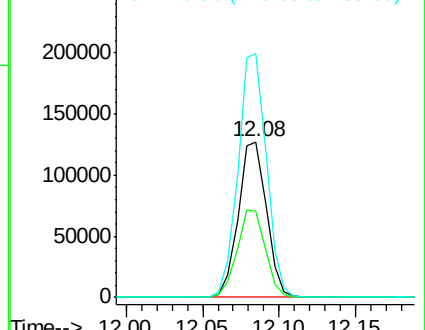
150 157.7 0.0 347.2



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: 24.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002425.D

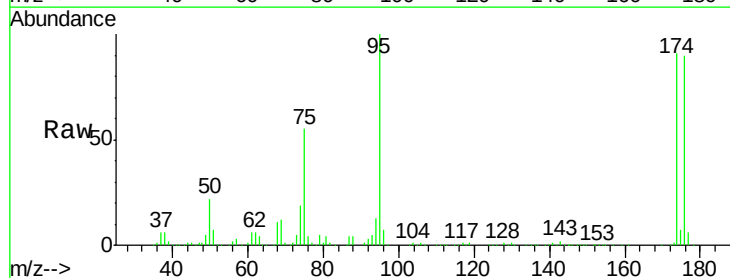
Acq: 09 Jun 2018 17:02

Tgt Ion: 75 Resp: 86458

Ion Ratio Lower Upper

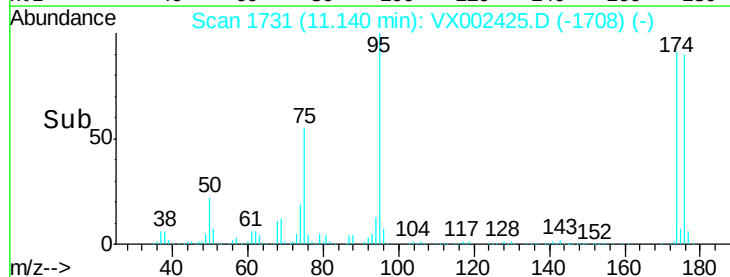
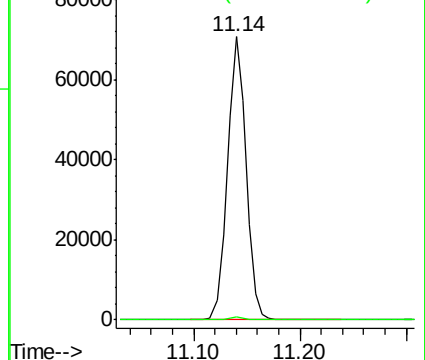
75 100

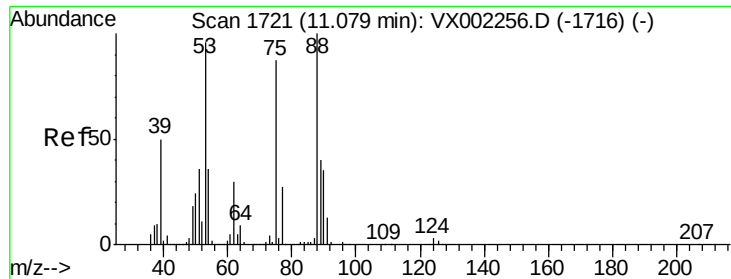
77 1.2 22.8 68.3#



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: 85.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002425.D

Acq: 09 Jun 2018 17:02

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 86458

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

