

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052618\
 Data File : VX002032.D
 Acq On : 26 May 2018 21:13
 Operator : JC/MD
 Sample : J3118-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:36:28 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316642	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	435367	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	380246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	201036	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	261214	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	
35) Dibromofluoromethane	5.51	113	205455	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
50) Toluene-d8	8.72	98	772453	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	11.14	95	266821	43.27	ug/l	0.00
Spiked Amount			Recovery	=	86.54%	

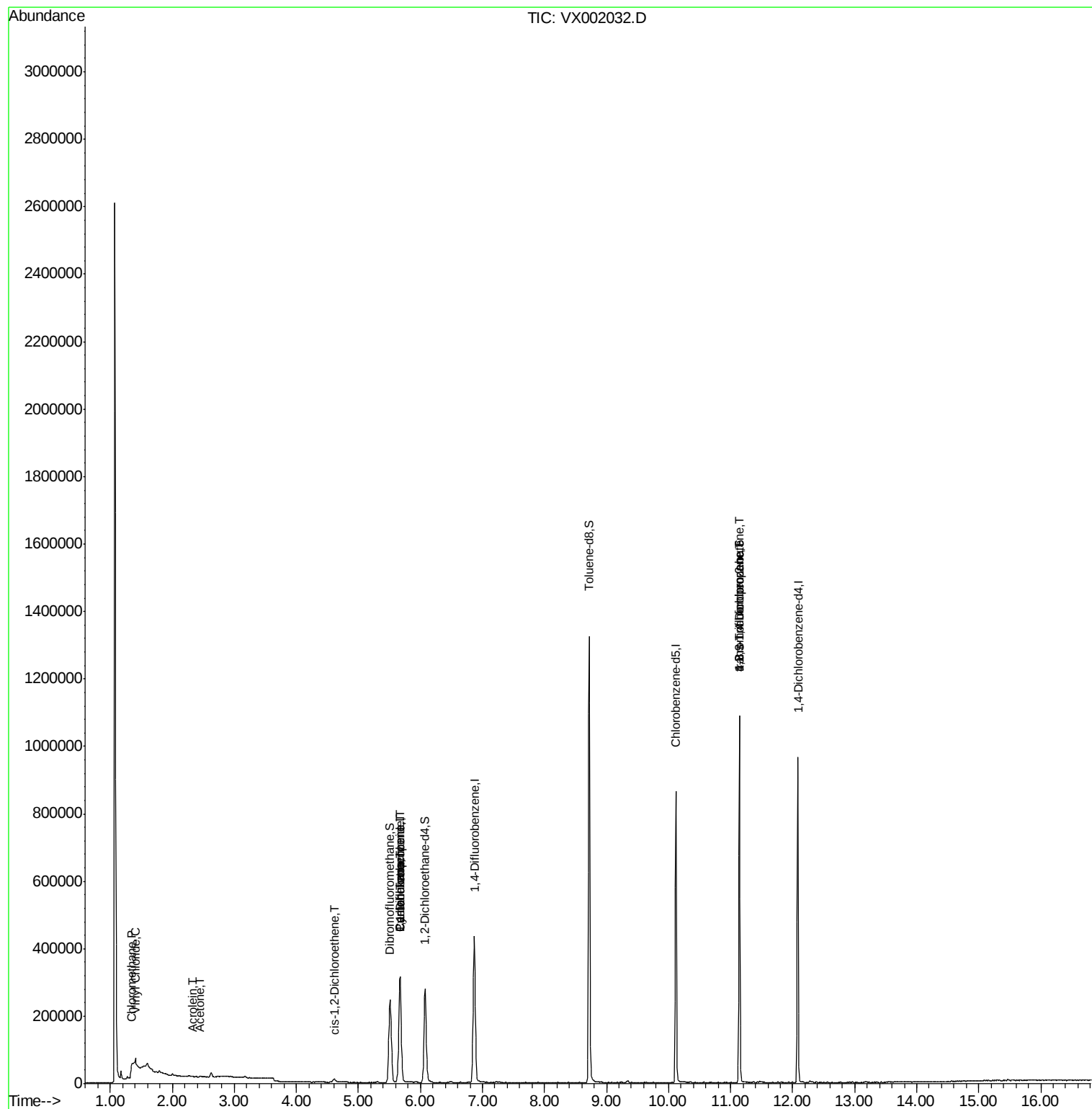
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	106	Below Cal	#	41
3) Chloromethane	1.33	50	2369	0.49	ug/l	92
4) Vinyl Chloride	1.40	62	1506	0.32	ug/l	# 1
5) Bromomethane	1.67	94	1140	Below Cal	#	63
13) Acrolein	2.33	56	108	0.22	ug/l	96
16) Acetone	2.45	43	3232	1.48	ug/l	92
18) Methyl Acetate	2.75	43	537	Below Cal	#	70
20) Methylene Chloride	2.86	84	616	Below Cal	#	80
21) trans-1,2-Dichloroethene	3.17	96	1264	Below Cal	#	75
27) cis-1,2-Dichloroethene	4.60	96	3873	0.80	ug/l	# 1
28) Bromochloromethane	5.01	49	53	Below Cal	#	14
31) Cyclohexane	5.67	56	6466	0.83	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	22275	3.68	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	28866	4.09	ug/l	# 15
41) Methacrylonitrile	5.07	41	66	Below Cal	#	1
74) N-amyl acetate	6.46	43	273	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.26	83	41	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	140322	29.06	ug/l	# 33
79) 2-Chlorotoluene	11.40	91	184	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	140322	69.84	ug/l	# 10

(#) = 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: VX002032.D

Acq: 26 May 2018 21:13

Instrument :

MSVOA_X

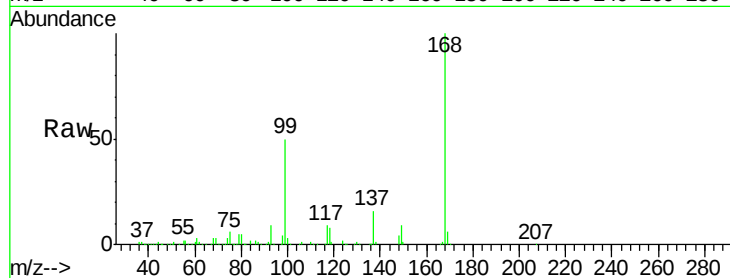
ClientSampleId :

Tot Ion:168 Resp: 316642

Ion Ratio Lower Upper

168 100

99 50.0 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

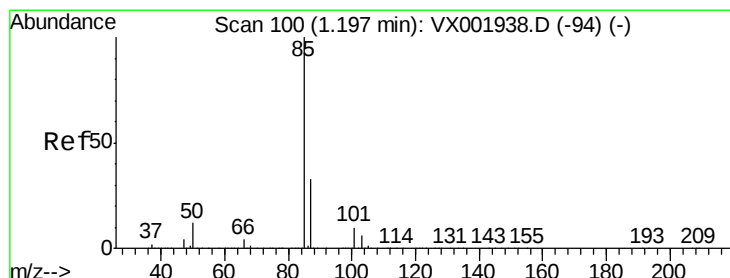
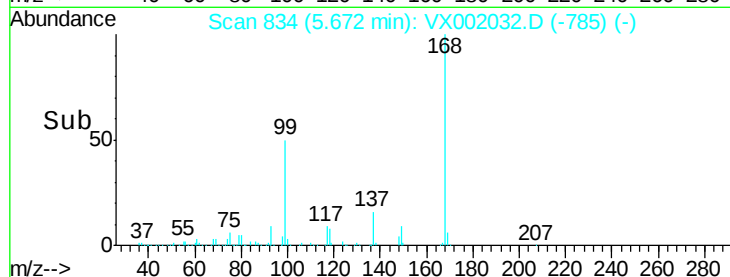
5.67

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002032.D

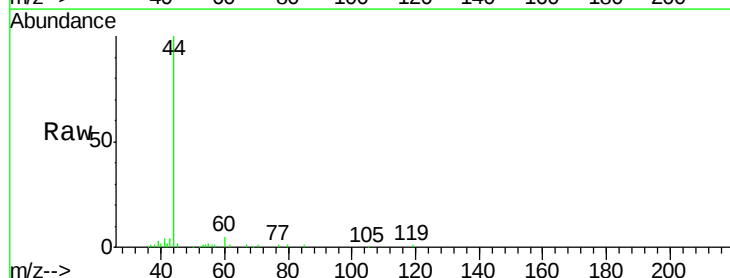
Acq: 26 May 2018 21:13

Tgt Ion: 85 Resp: 106

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

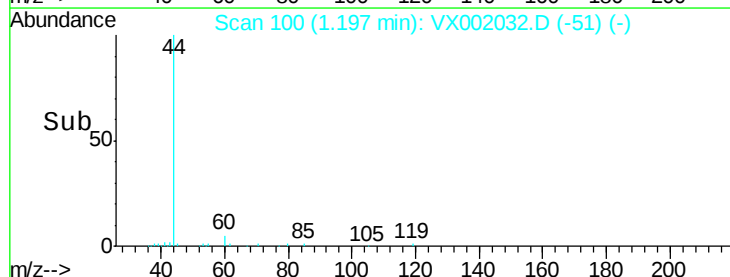
60

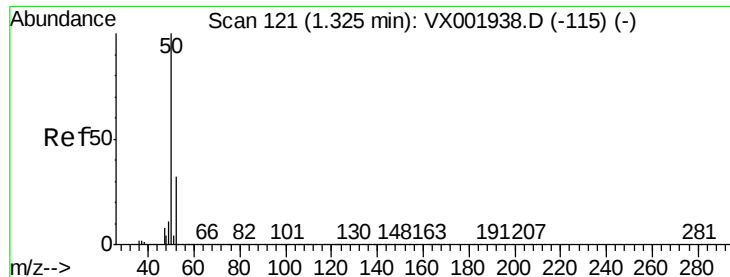
40

20

0

Time-->





#3

Chloromethane

Concen: 0.49 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Instrument :

MSVOA_X

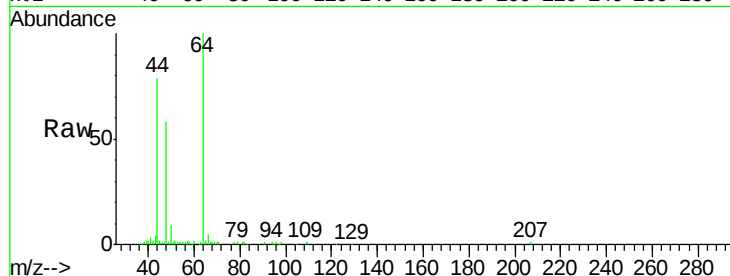
ClientSampleId :

Tot Ion: 50 Resp: 2369

Ion Ratio Lower Upper

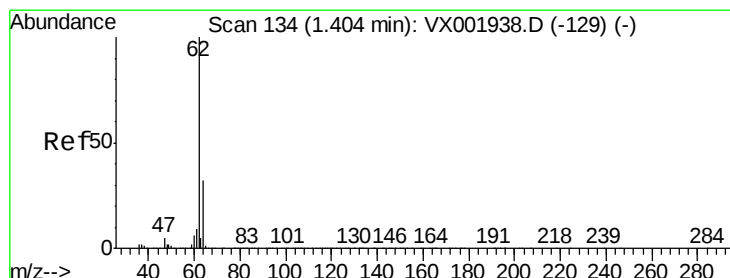
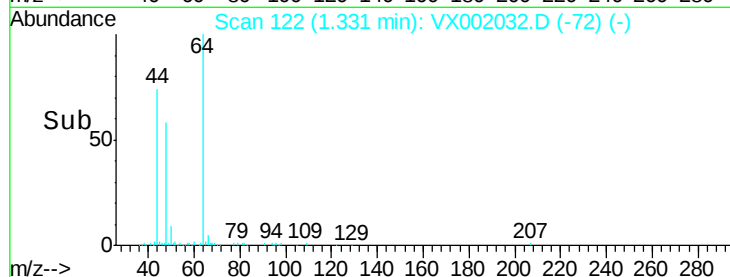
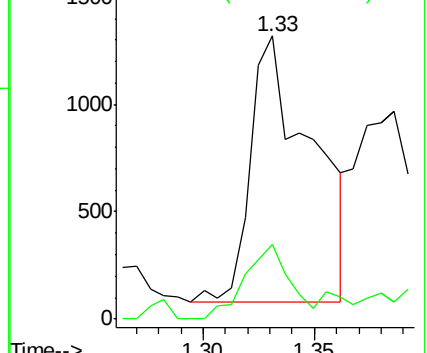
50 100

52 27.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.32 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX002032.D

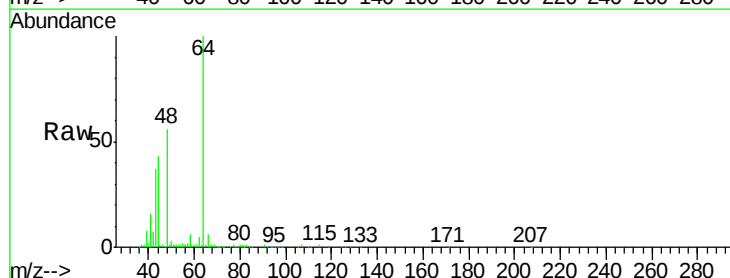
Acq: 26 May 2018 21:13

Tgt Ion: 62 Resp: 1506

Ion Ratio Lower Upper

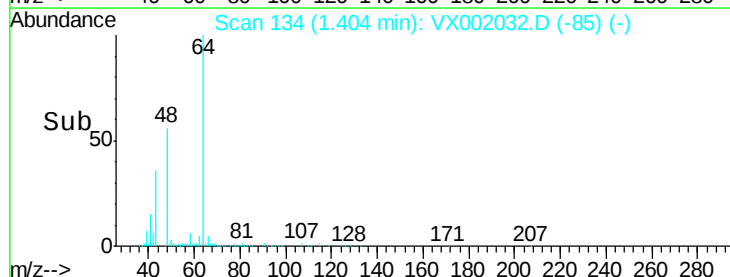
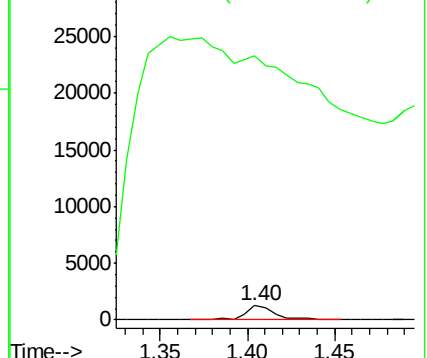
62 100

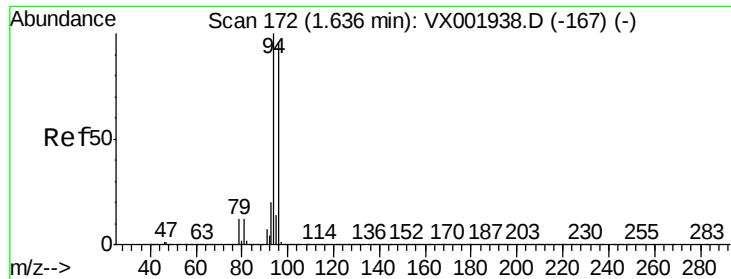
64 377.1 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Instrument :

MSVOA_X

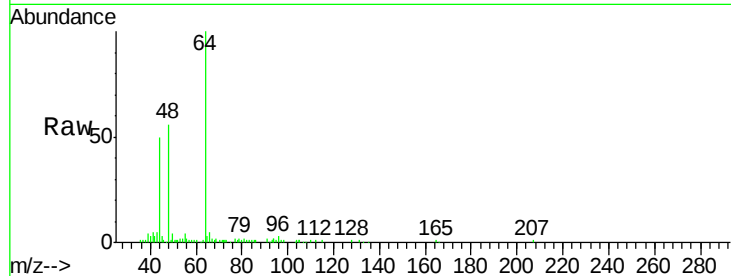
ClientSampleId :

Tot Ion: 94 Resp: 1140

Ion Ratio Lower Upper

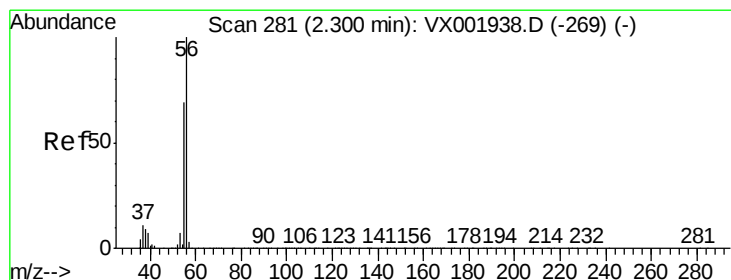
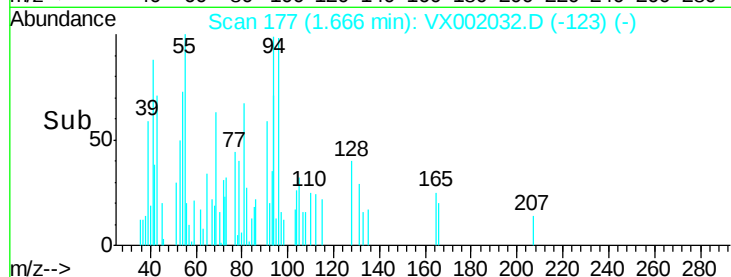
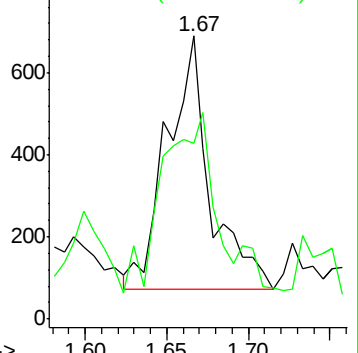
94 100

96 59.2 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#13

Acrolein

Concen: 0.22 ug/l

RT: 2.33 min Scan# 286

Delta R.T. 0.03 min

Lab File: VX002032.D

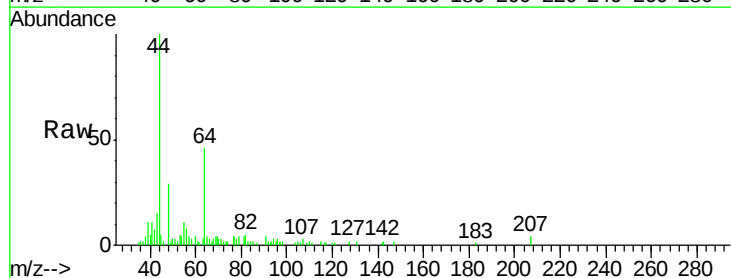
Acq: 26 May 2018 21:13

Tgt Ion: 56 Resp: 108

Ion Ratio Lower Upper

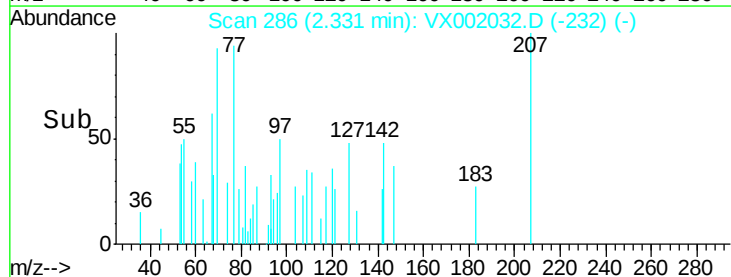
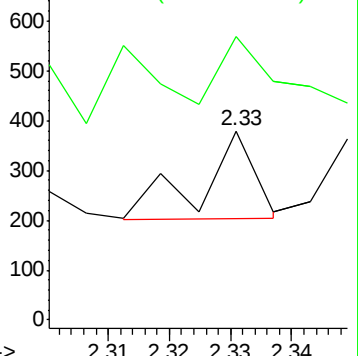
56 100

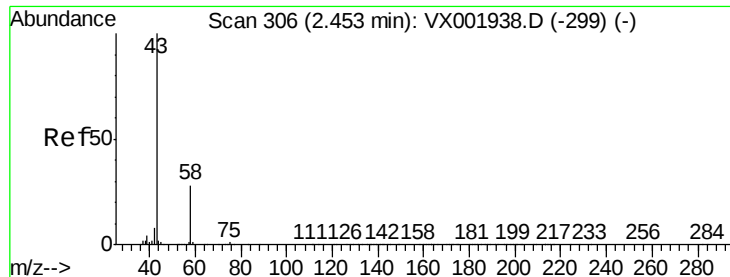
55 74.1 56.8 85.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.48 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

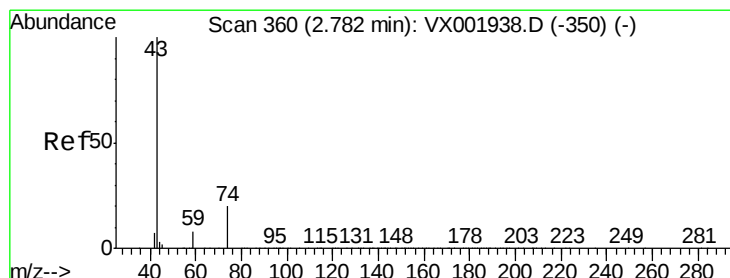
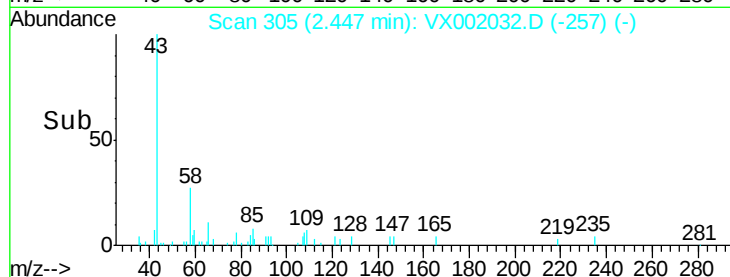
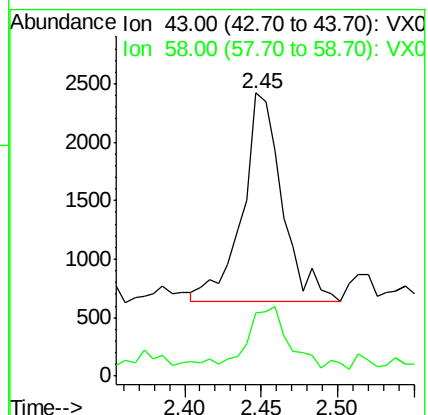
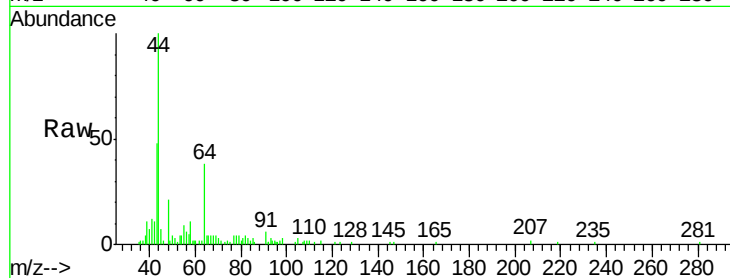
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 3232

Ion Ratio Lower Upper

43 100

58 23.9 22.3 33.5



#18

Methyl Acetate

Concen: Below Cal

RT: 2.75 min Scan# 355

Delta R.T. -0.03 min

Lab File: VX002032.D

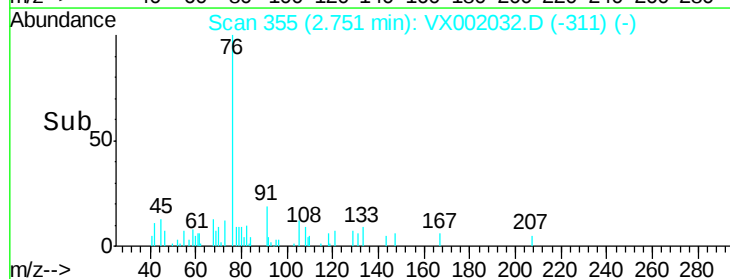
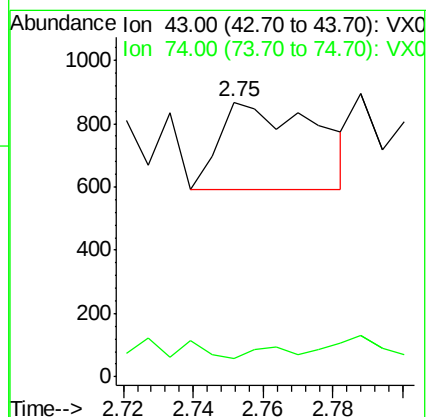
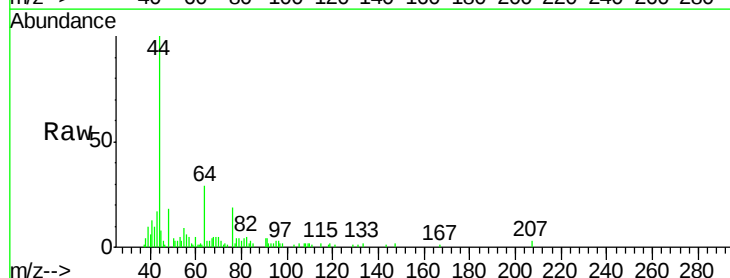
Acq: 26 May 2018 21:13

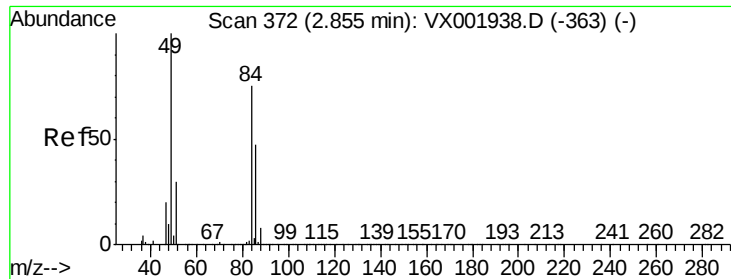
Tgt Ion: 43 Resp: 537

Ion Ratio Lower Upper

43 100

74 7.1 16.8 25.2#

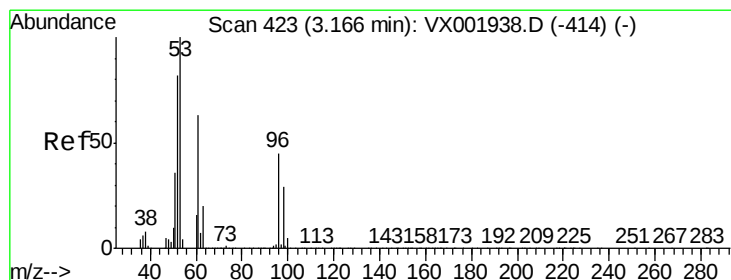
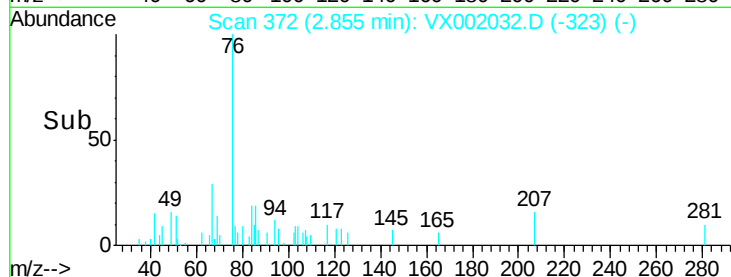
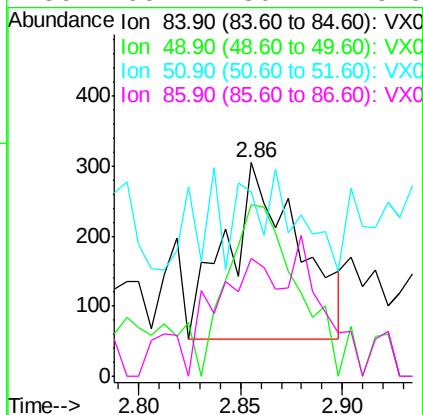
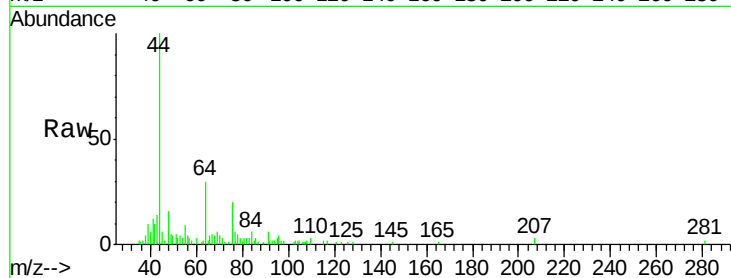




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

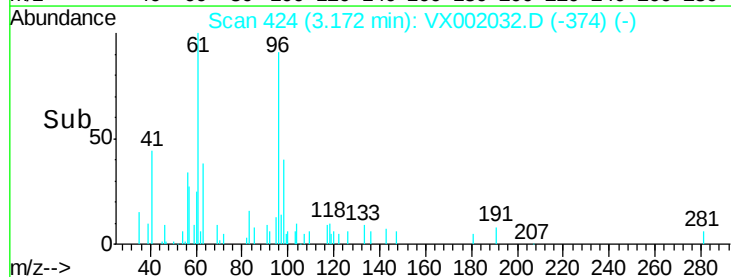
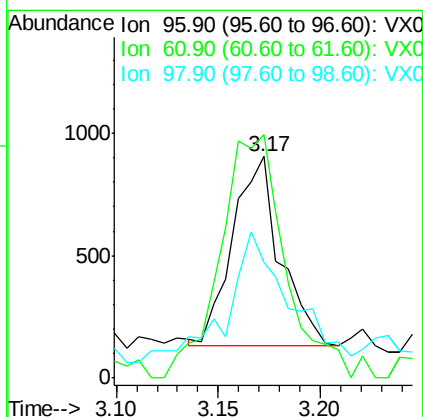
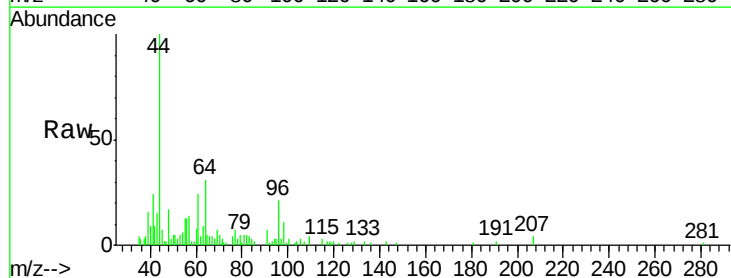
Instrument :
MSVOA_X
ClientSampleId :

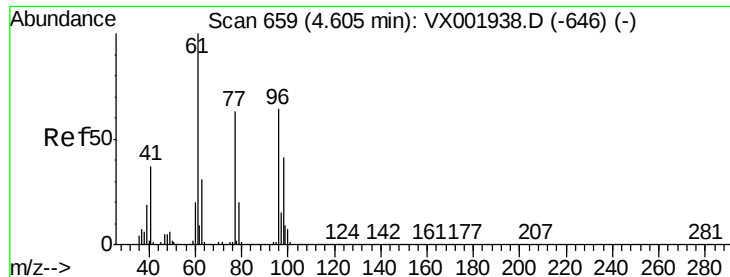
Tot Ion: 84 Resp: 616
Ion Ratio Lower Upper
84 100
49 97.2 107.2 160.8#
51 44.8 32.4 48.6
86 66.7 50.4 75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

Tgt Ion: 96 Resp: 1264
Ion Ratio Lower Upper
96 100
61 113.0 113.3 169.9#
98 41.9 51.7 77.5#





#27

cis-1,2-Dichloroethene

Concen: 0.80 ug/l

RT: 4.60 min Scan# 659

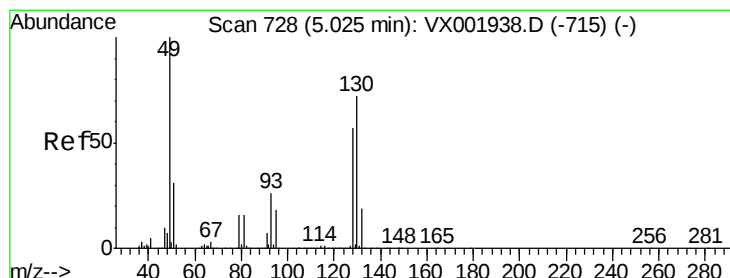
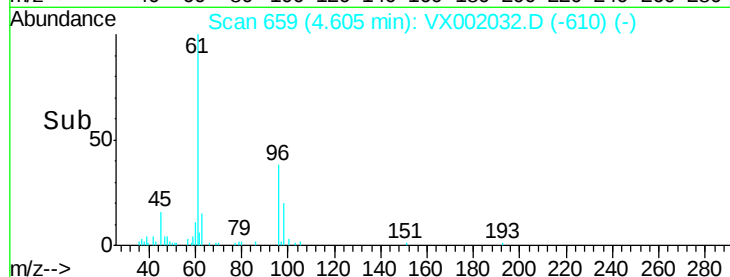
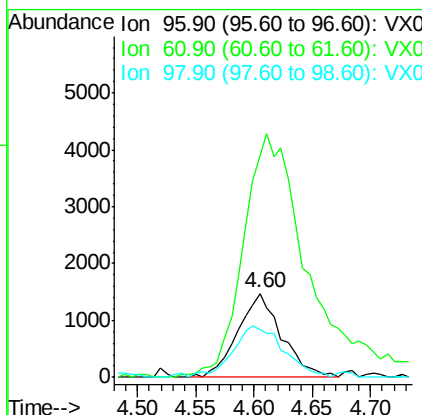
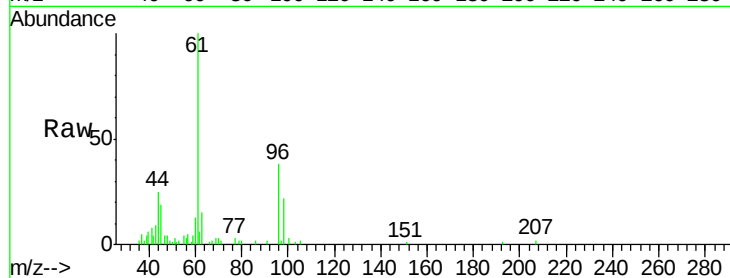
Delta R.T. 0.00 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 3873
Ion Ratio Lower Upper
96 100
61 433.5 0.0 348.4#
98 70.8 0.0 128.6



#28

Bromochloromethane

Concen: Below Cal

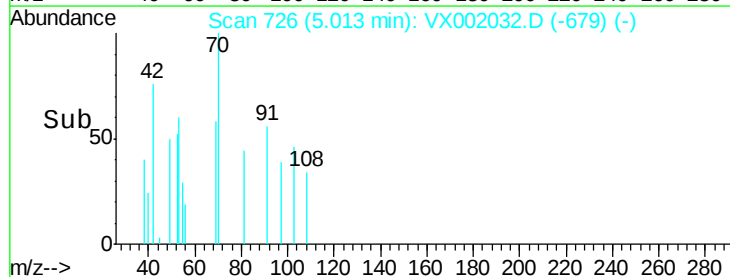
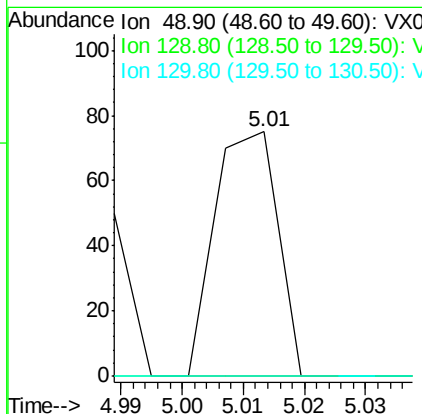
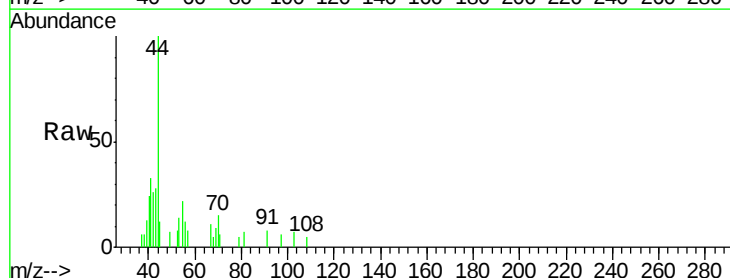
RT: 5.01 min Scan# 726

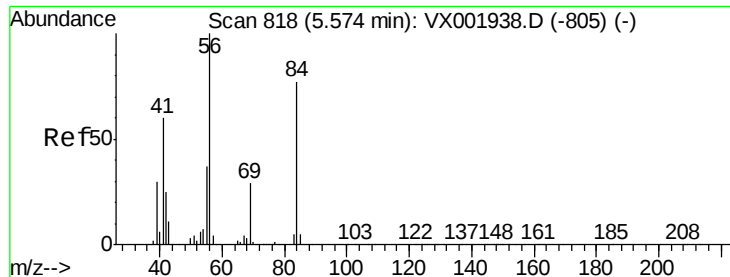
Delta R.T. -0.01 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Tgt Ion: 49 Resp: 53
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 59.4 89.2#

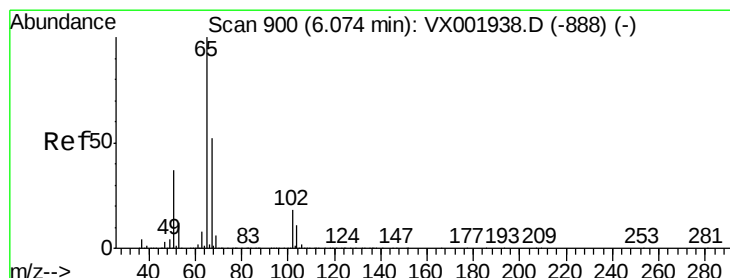
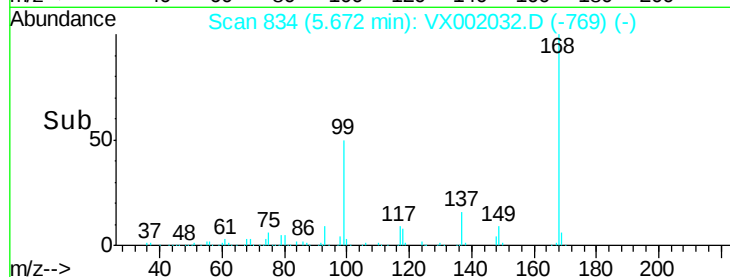
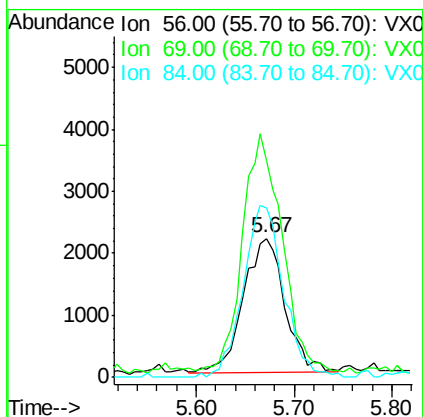
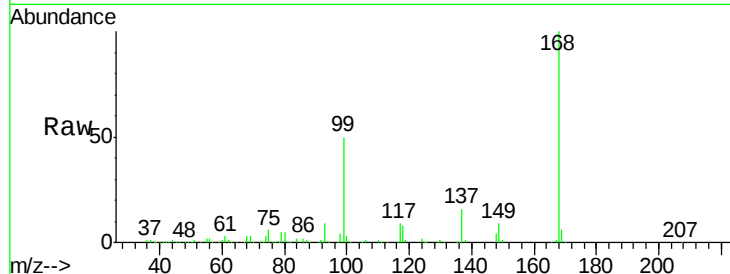




#31
Cyclohexane
Concen: 0.83 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

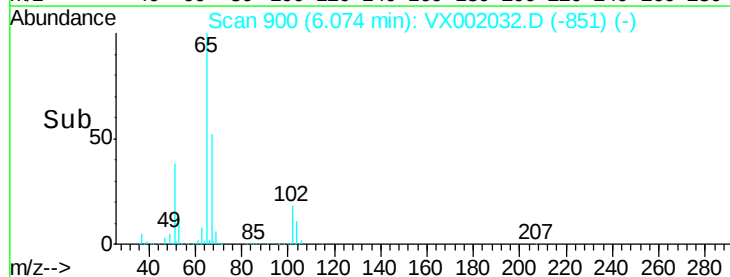
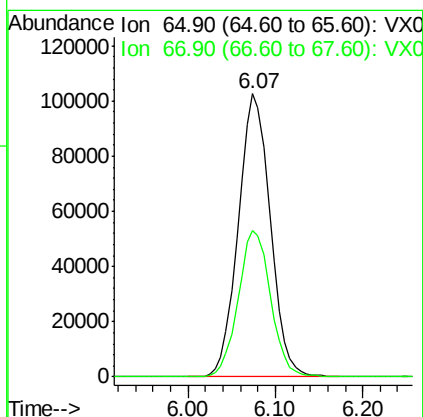
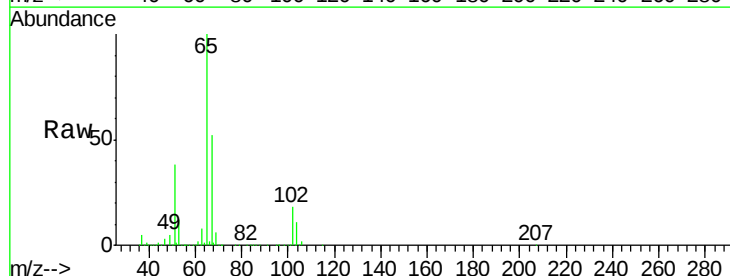
Instrument :
MSVOA_X
ClientSampleId :

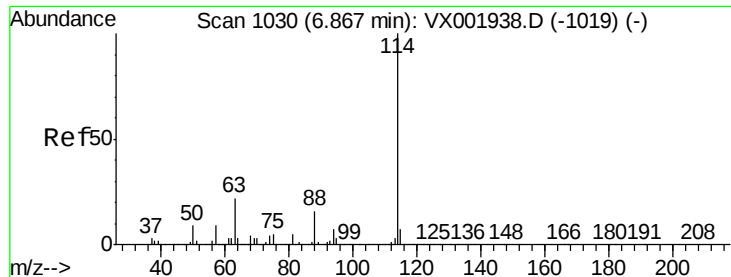
Tot Ion: 56 Resp: 6466
Ion Ratio Lower Upper
56 100
69 156.8 23.1 34.7#
84 126.9 62.0 93.0#



#33
1,2-Dichloroethane-d4
Concen: 46.15 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

Tgt Ion: 65 Resp: 261214
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Instrument :

MSVOA_X

ClientSampleId :

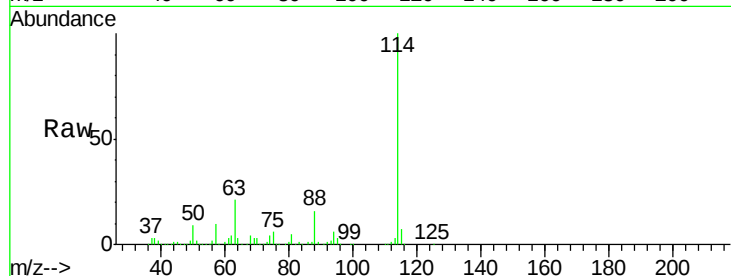
Tot Ion:114 Resp: 435367

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

88 15.9 0.0 31.6



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

250000

200000

150000

100000

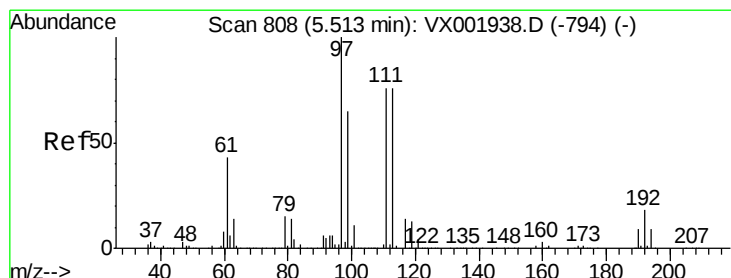
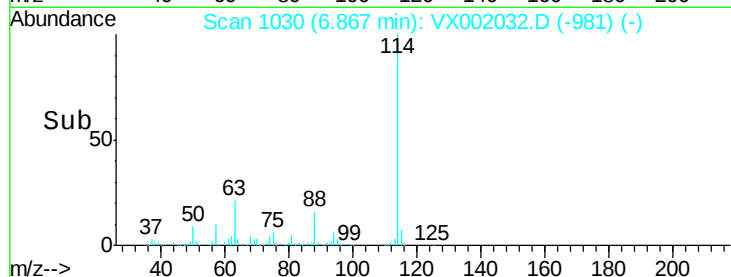
50000

0

6.87

6.70 6.80 6.90 7.00 7.10

Time-->



#35

Dibromofluoromethane

Concen: 47.19 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

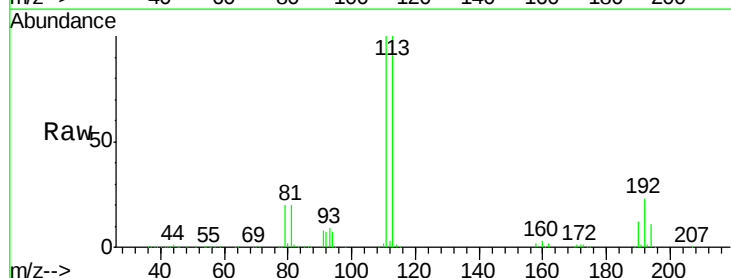
Tgt Ion:113 Resp: 205455

Ion Ratio Lower Upper

113 100

111 101.9 82.0 123.0

192 23.5 18.9 28.3



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

100000

80000

60000

40000

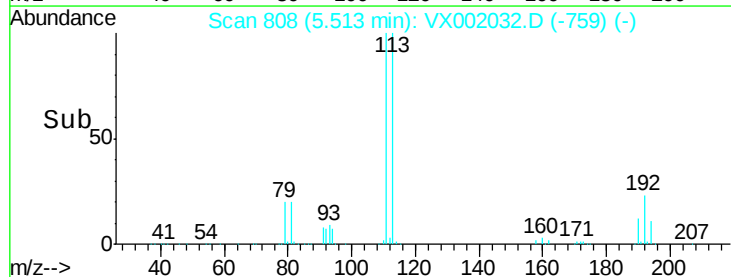
20000

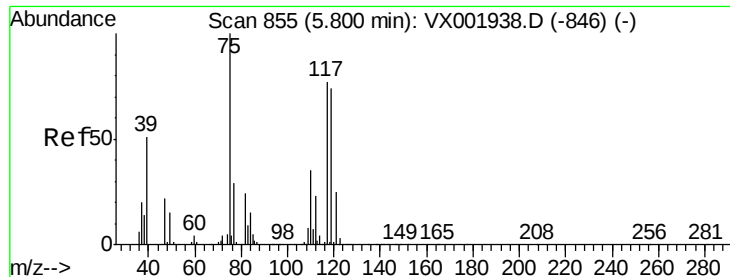
0

5.51

5.40 5.50 5.60 5.70

Time-->

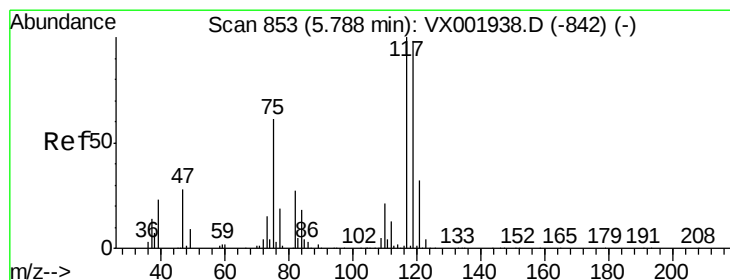
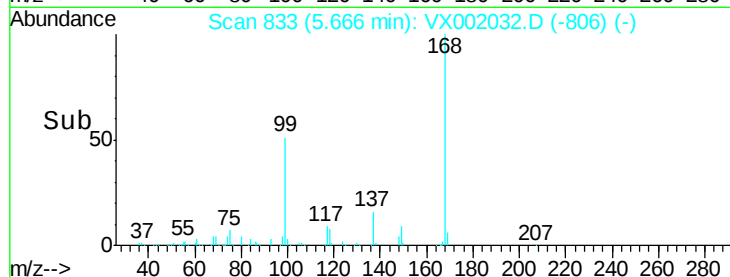
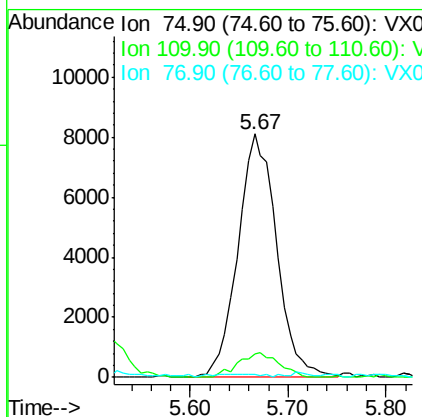
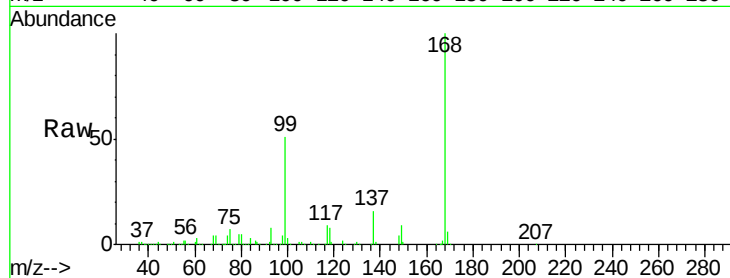




#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002032.D
 Acq: 26 May 2018 21:13

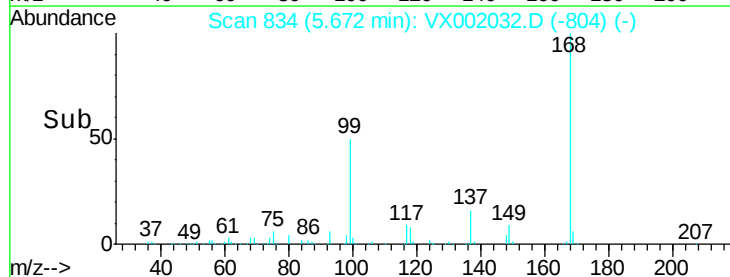
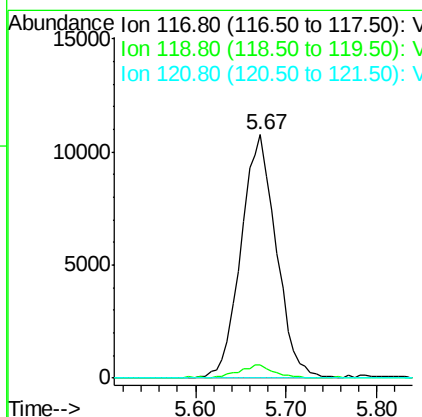
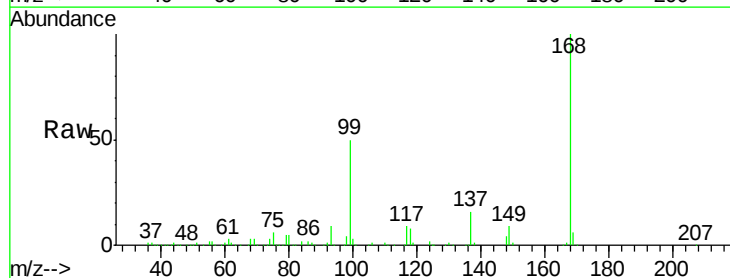
Instrument :
 MSVOA_X
 ClientSampleId :

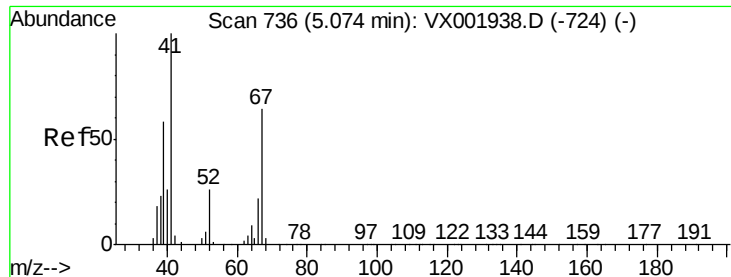
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	17.4	52.2#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.09 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002032.D
 Acq: 26 May 2018 21:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.5	117.7#
121	0.0	25.5	38.3#

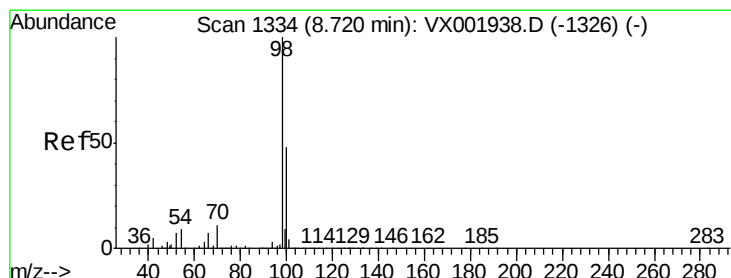
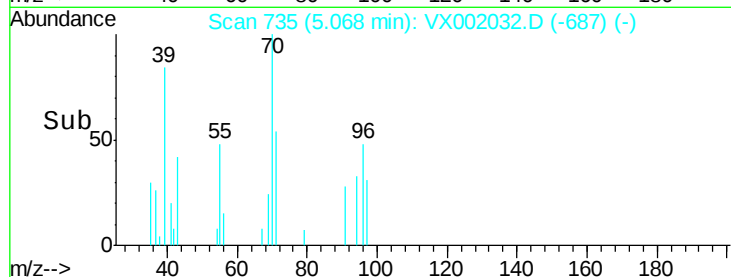
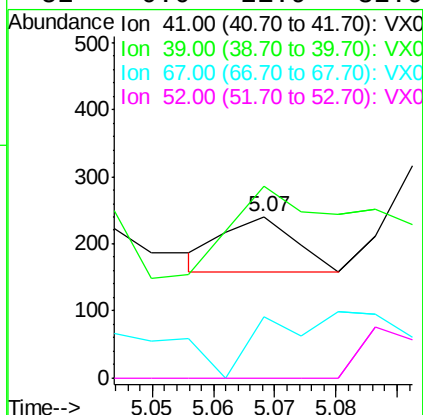
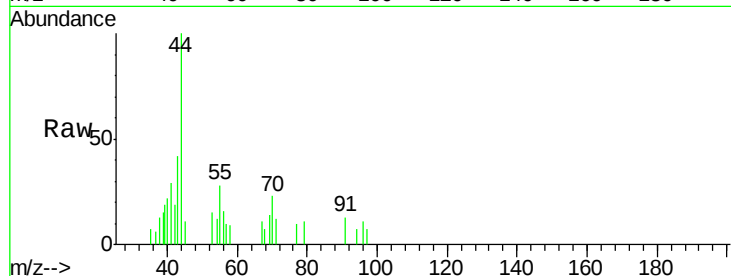




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.07 min Scan# 735
Delta R.T. -0.01 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

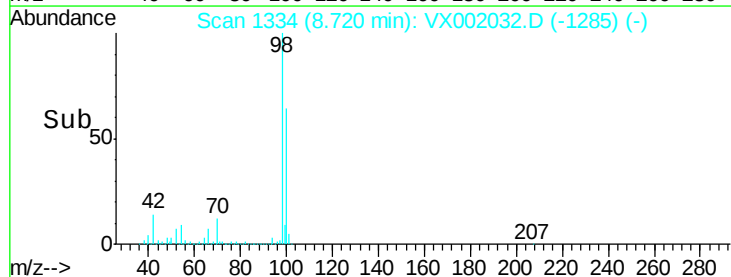
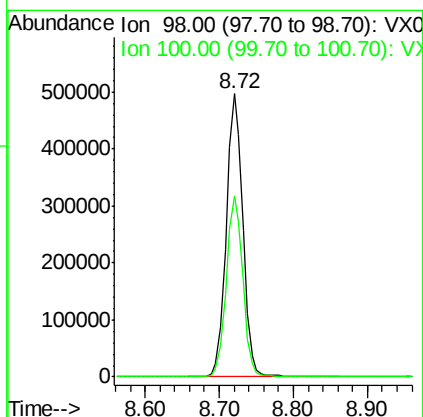
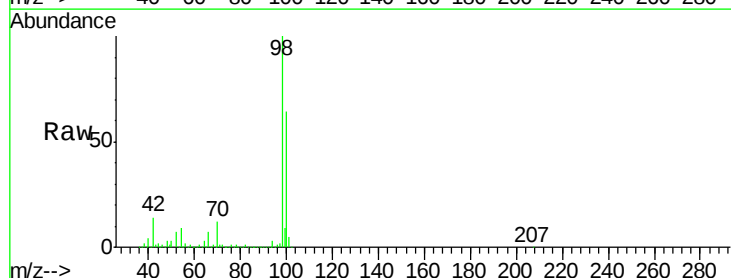
Instrument :
MSVOA_X
ClientSampleId :

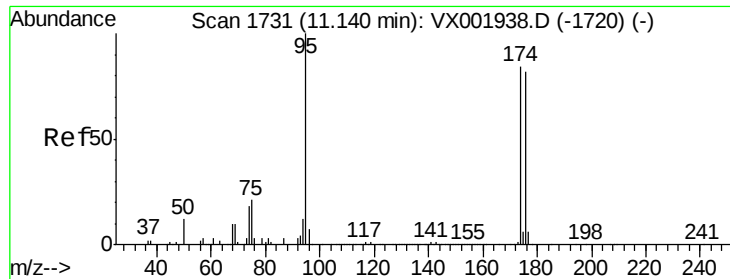
Tot Ion:	41	Resp:	66
Ion	Ratio	Lower	Upper
41	100		
39	560.6	46.0	69.0#
67	227.3	50.6	75.8#
52	0.0	21.9	32.9#



#50
Toluene-d8
Concen: 49.01 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

Tgt Ion:	98	Resp:	772453
Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.5	77.3

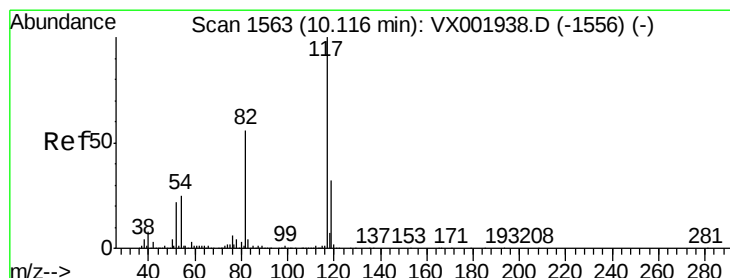
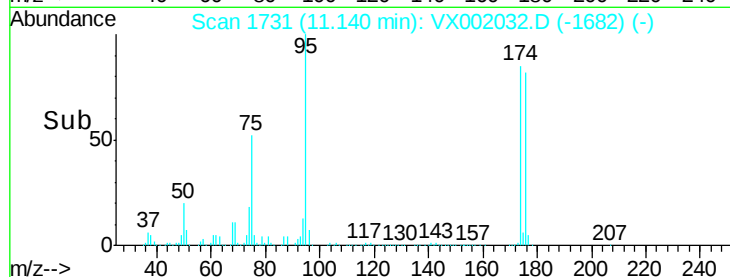
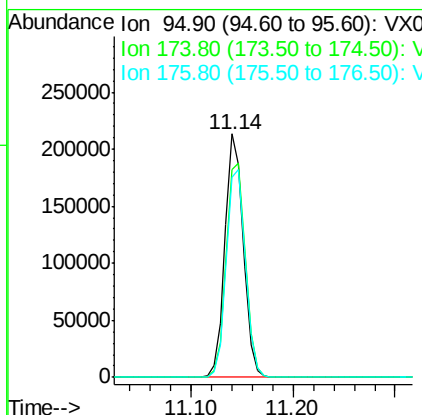
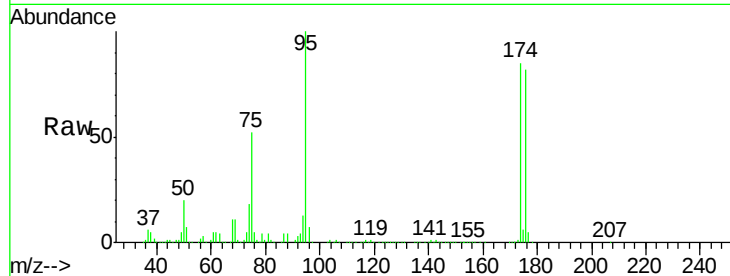




#62
4-Bromofluorobenzene
Concen: 43.27 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

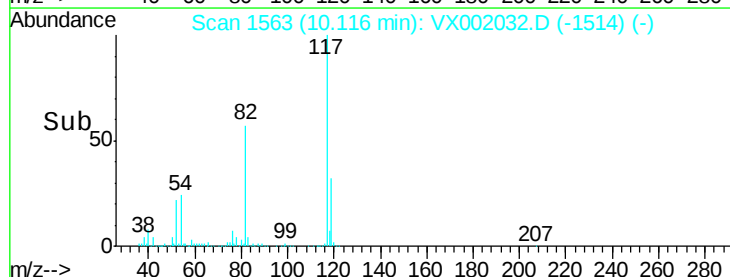
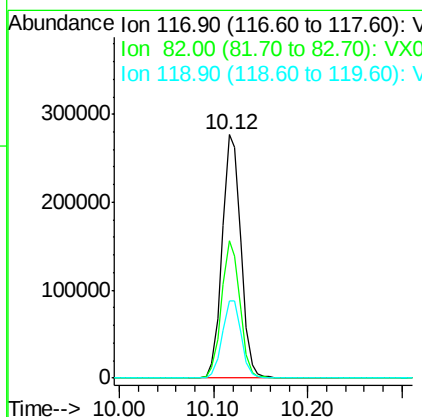
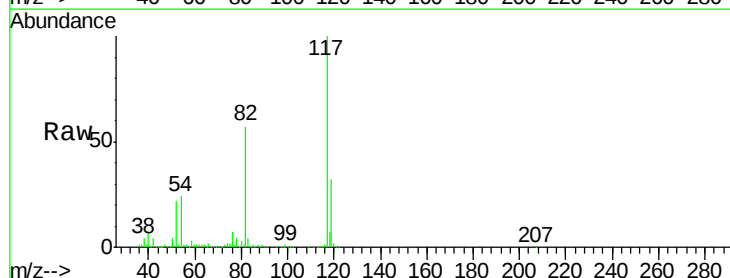
Instrument :
MSVOA_X
ClientSampled :

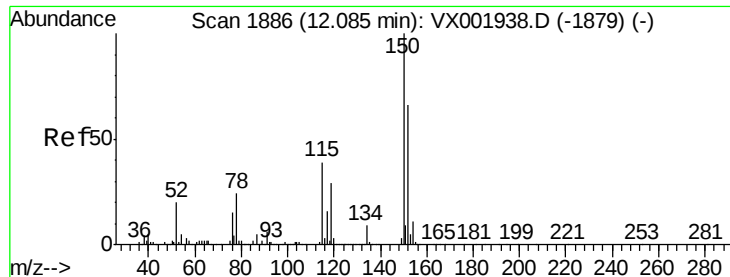
Tot Ion: 95 Resp: 266821
Ion Ratio Lower Upper
95 100
174 91.8 0.0 178.8
176 88.4 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002032.D
Acq: 26 May 2018 21:13

Tgt Ion: 117 Resp: 380246
Ion Ratio Lower Upper
117 100
82 56.5 44.8 67.2
119 31.6 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Instrument :

MSVOA_X

ClientSampleId :

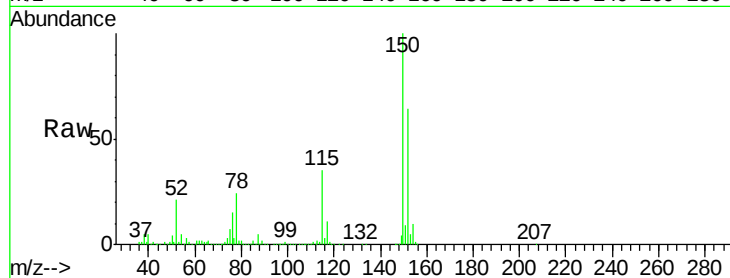
Tot Ion:152 Resp: 201036

Ion Ratio Lower Upper

152 100

115 55.0 42.3 126.8

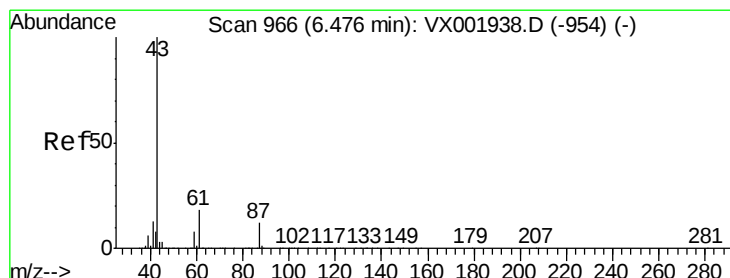
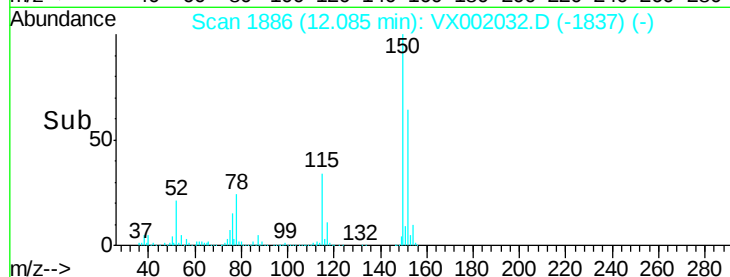
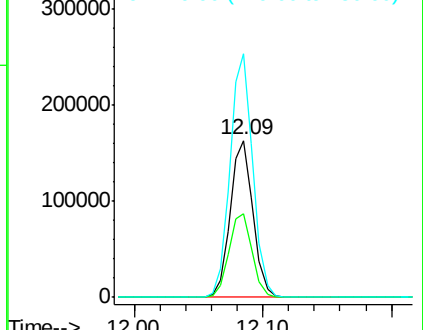
150 155.6 0.0 351.0



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.46 min Scan# 963

Delta R.T. -0.02 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Tgt Ion: 43 Resp: 273

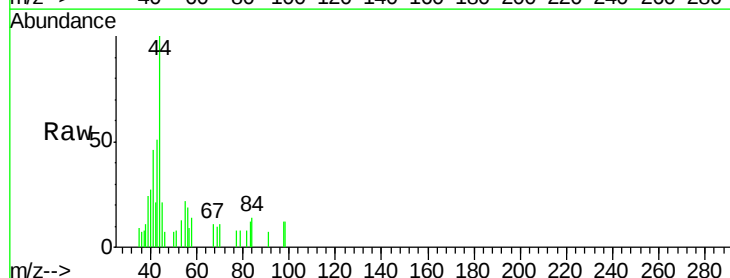
Ion Ratio Lower Upper

43 100

70 32.6 0.1 0.1#

55 61.5 0.1 0.1#

61 0.0 14.5 21.7#

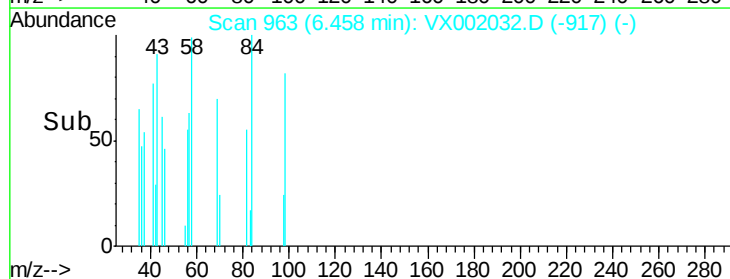
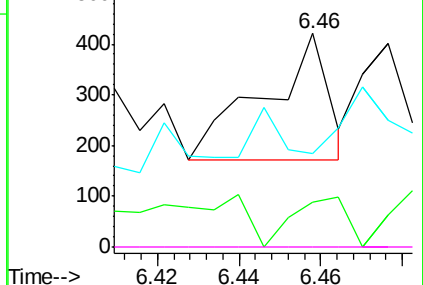


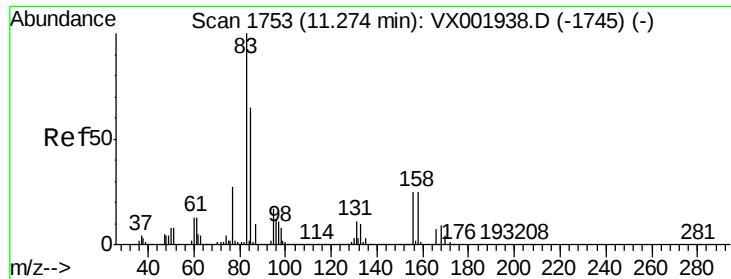
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.26 min Scan# 1751

Delta R.T. -0.01 min

Lab File: VX002032.D

Acq: 26 May 2018 21:13

Instrument :

MSVOA_X

ClientSampleId :

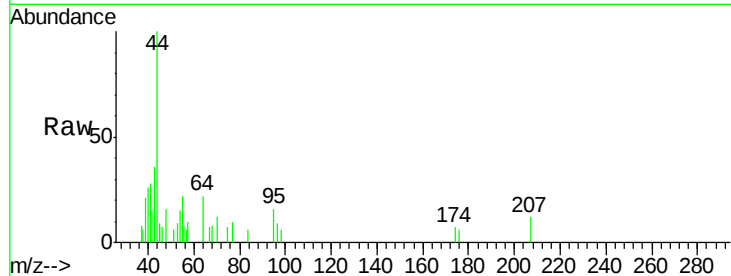
Tot Ion: 83 Resp: 41

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

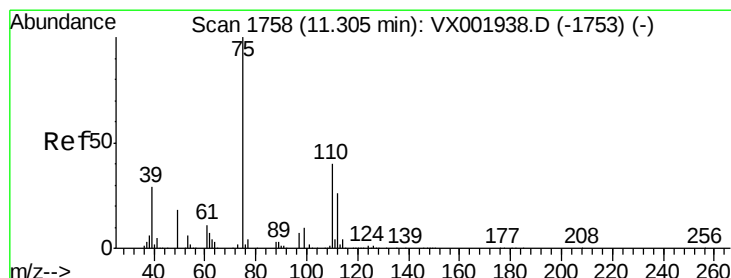
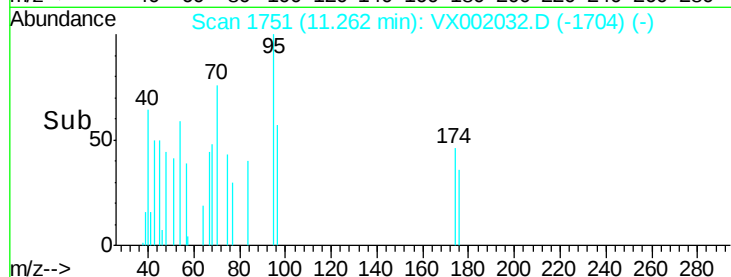
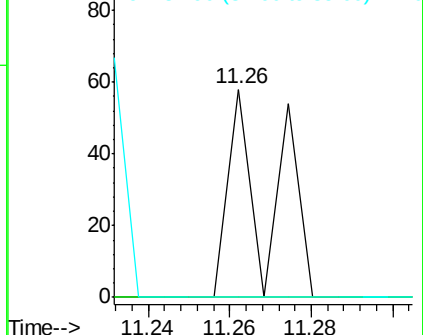
85 0.0 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 29.06 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002032.D

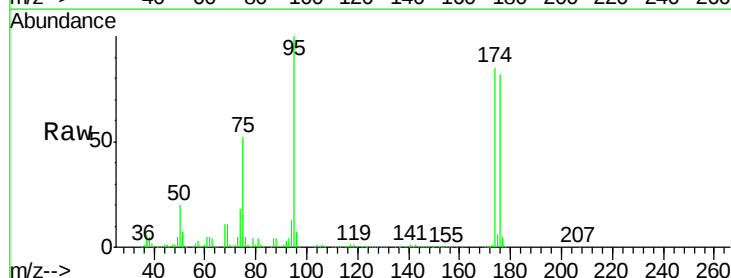
Acq: 26 May 2018 21:13

Tgt Ion: 75 Resp: 140322

Ion Ratio Lower Upper

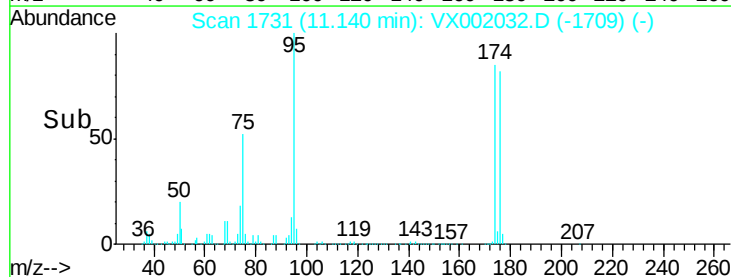
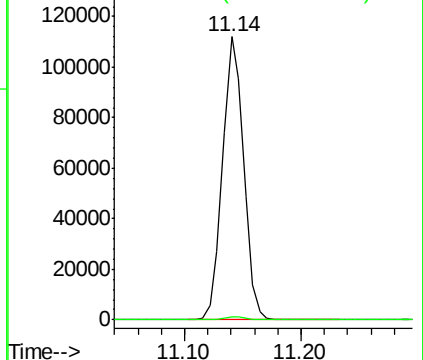
75 100

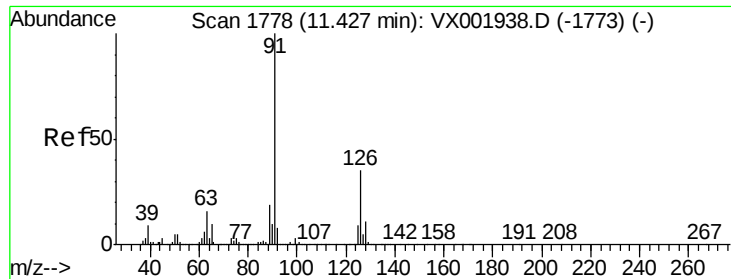
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

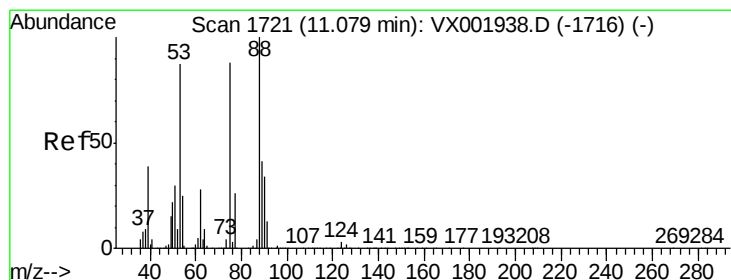
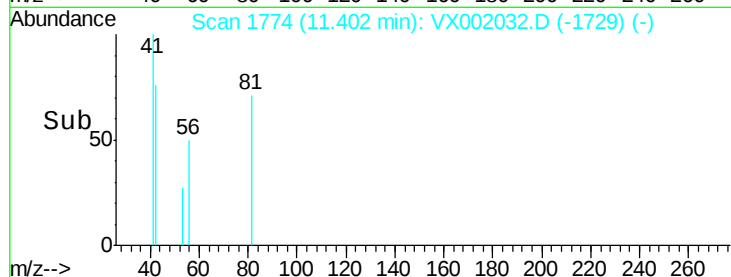
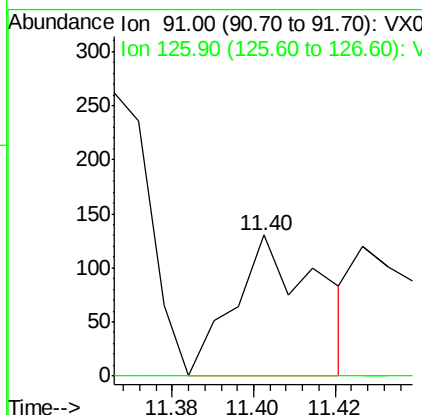
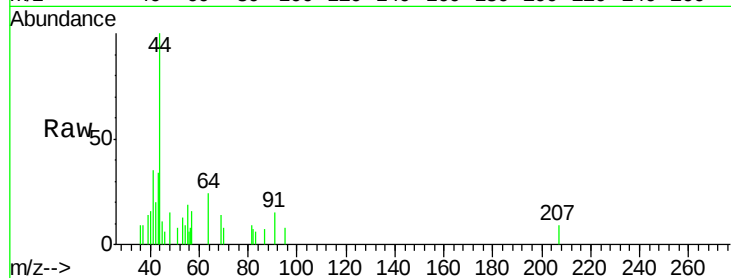




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.40 min Scan# 1774
 Delta R.T. -0.02 min
 Lab File: VX002032.D
 Acq: 26 May 2018 21:13

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 91 Resp: 184
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002032.D
 Acq: 26 May 2018 21:13

Tgt Ion: 75 Resp: 140322
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 39.4 59.2#

