

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002882.D
 Acq On : 26 Jun 2018 01:40
 Operator : JC/MD
 Sample : J3705-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 05:29:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	245999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	346420	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	319410	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	179454	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	166309	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
35) Dibromofluoromethane	5.51	113	132956	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	8.72	98	490513	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	11.14	95	172346	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

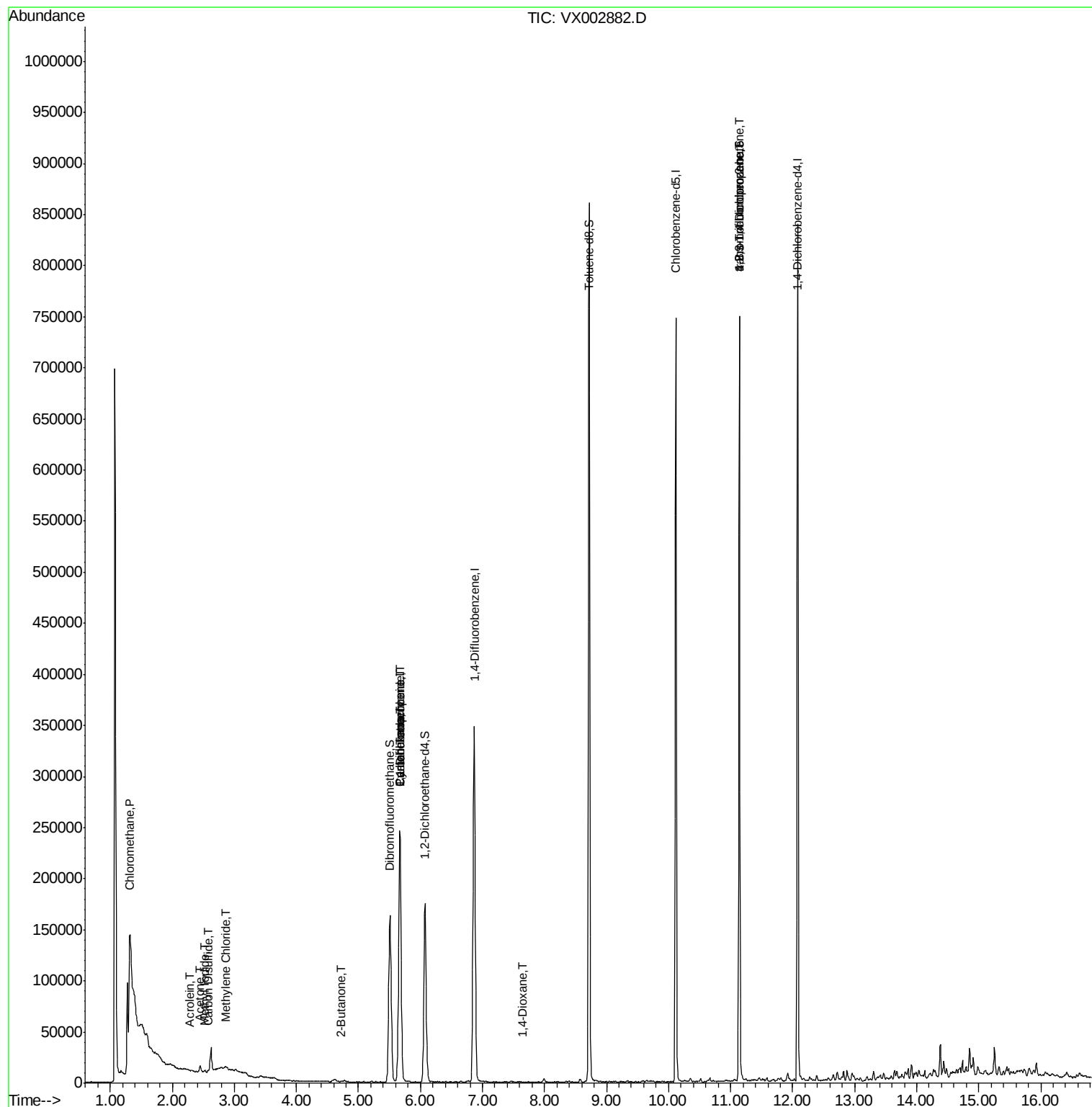
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	64	Below Cal	#	43
3) Chloromethane	1.32	50	5815	1.39	ug/l #	65
5) Bromomethane	1.66	94	1681	Below Cal	#	76
10) Methyl Iodide	2.53	142	2385	6.98	ug/l #	90
13) Acrolein	2.29	56	154	4.63	ug/l #	1
16) Acetone	2.45	43	6539	4.64	ug/l	98
17) Carbon Disulfide	2.57	76	3618	0.56	ug/l #	72
20) Methylene Chloride	2.86	84	789	0.29	ug/l #	88
25) 2-Butanone	4.72	43	473	0.23	ug/l #	78
31) Cyclohexane	5.67	56	4942	1.16	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17401	4.58	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22611	5.42	ug/l #	16
49) 1,4-Dioxane	7.64	88	23	0.33	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	90492	27.84	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	90492	78.70	ug/l #	7

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

Instrument :

MSVOA_X

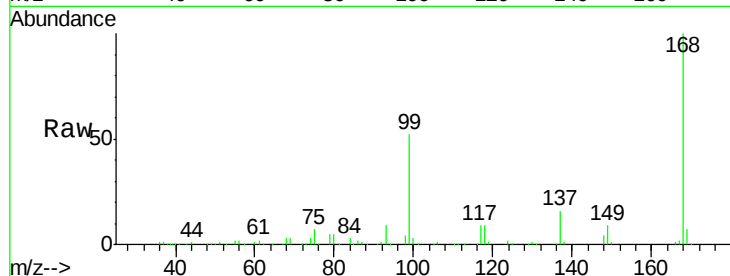
ClientSampleId :

Tot Ion:168 Resp: 245999

Ion Ratio Lower Upper

168 100

99 51.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

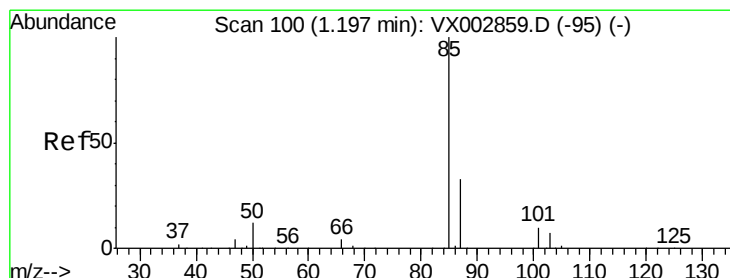
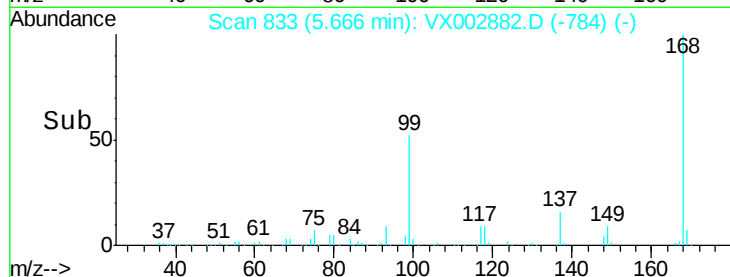
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002882.D

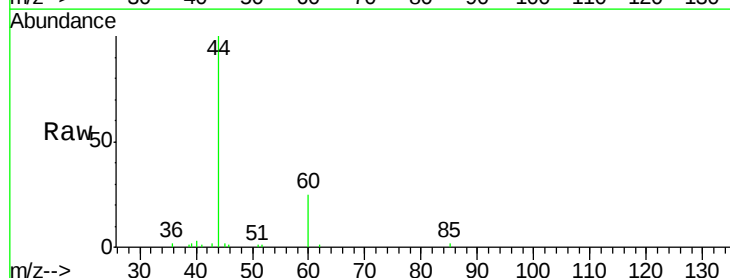
Acq: 26 Jun 2018 01:40

Tgt Ion: 85 Resp: 64

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

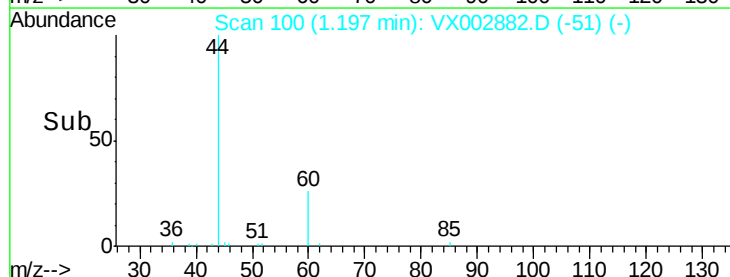
1.20

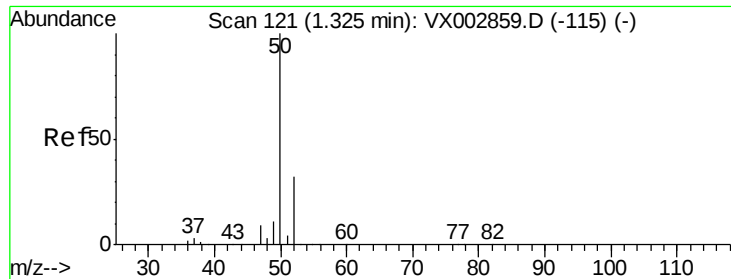
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 1.39 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

Instrument :

MSVOA_X

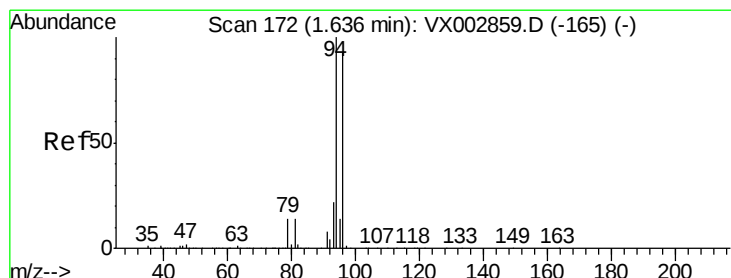
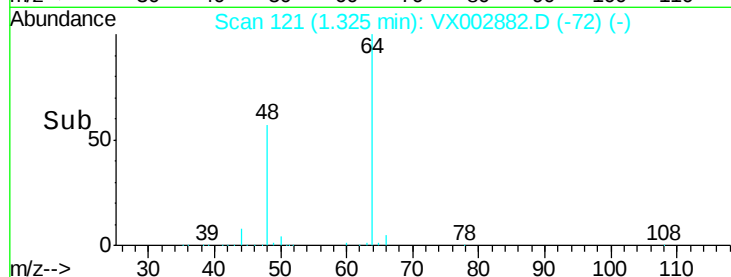
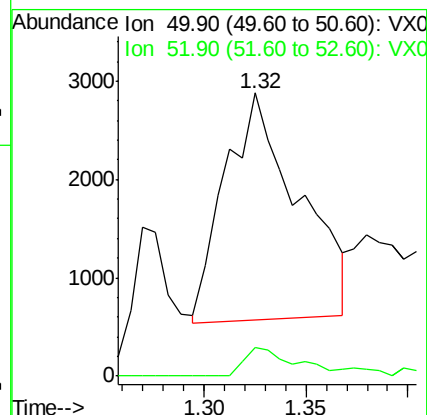
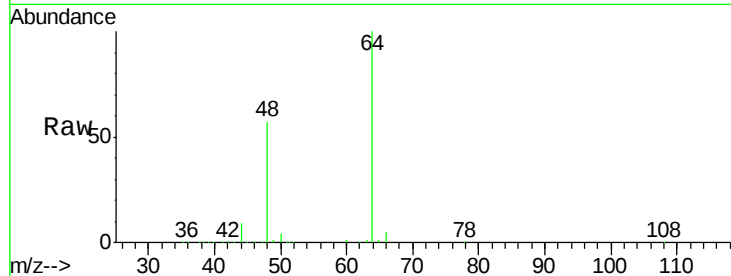
ClientSampled :

Tot Ion: 50 Resp: 5815

Ion Ratio Lower Upper

50 100

52 12.7 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002882.D

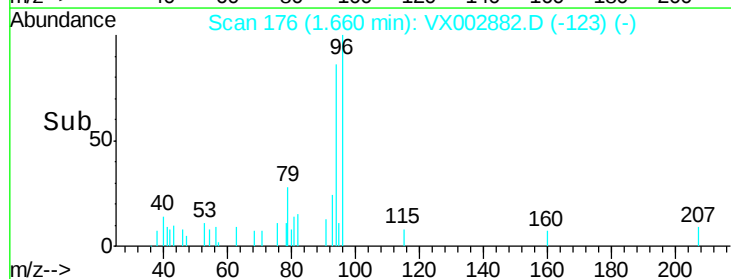
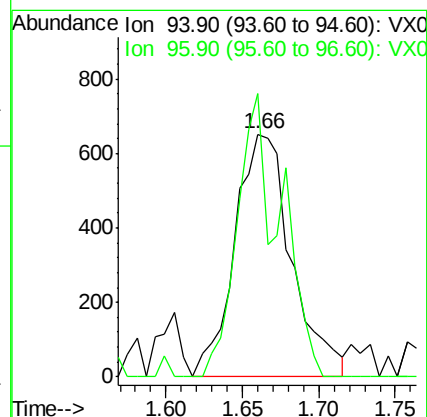
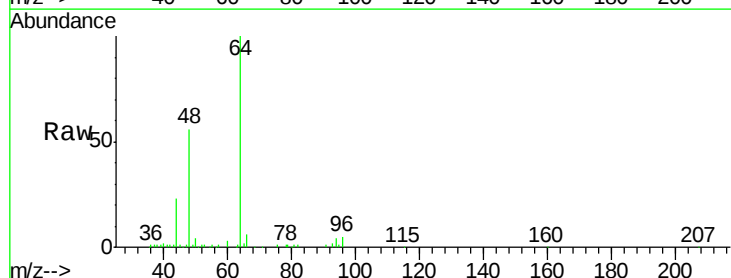
Acq: 26 Jun 2018 01:40

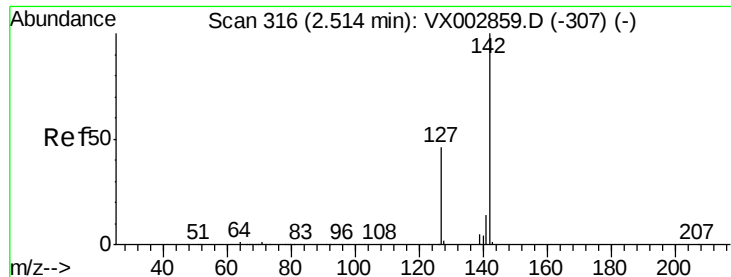
Tgt Ion: 94 Resp: 1681

Ion Ratio Lower Upper

94 100

96 116.7 74.9 112.3#

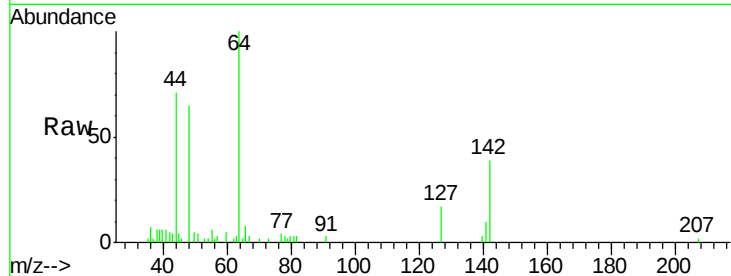




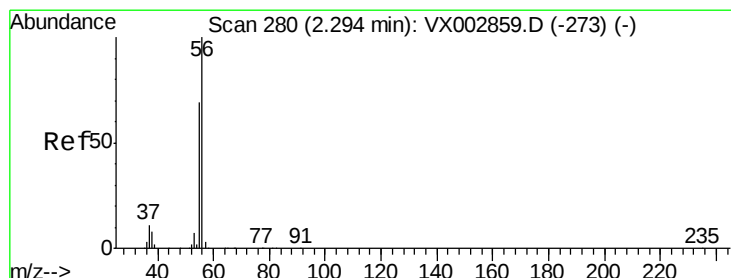
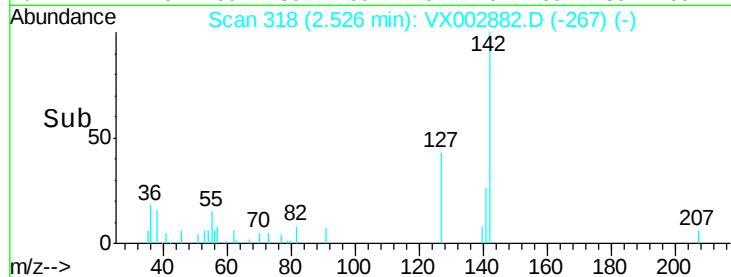
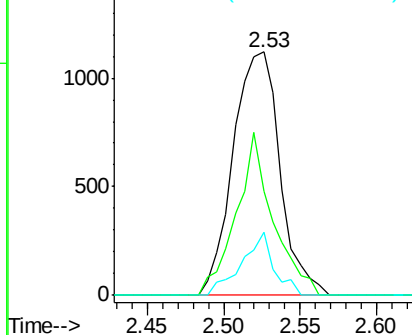
#10
Methyl Iodide
Concen: 6.98 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002882.D
Acq: 26 Jun 2018 01:40

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 2385
Ion Ratio Lower Upper
142 100
127 52.3 36.6 55.0
141 17.7 11.3 16.9#

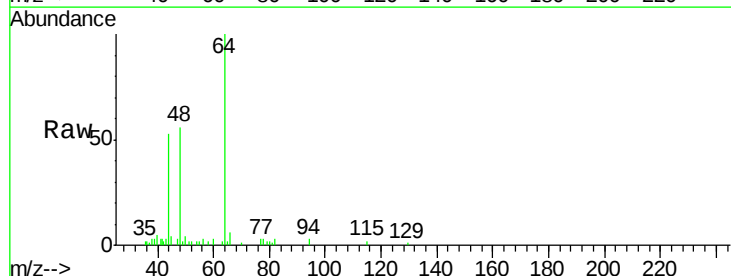


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

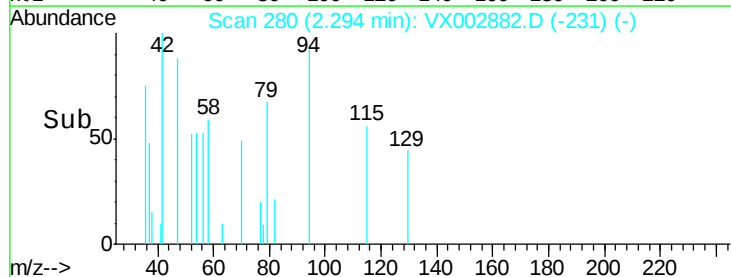
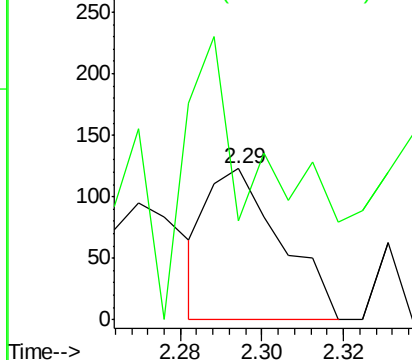


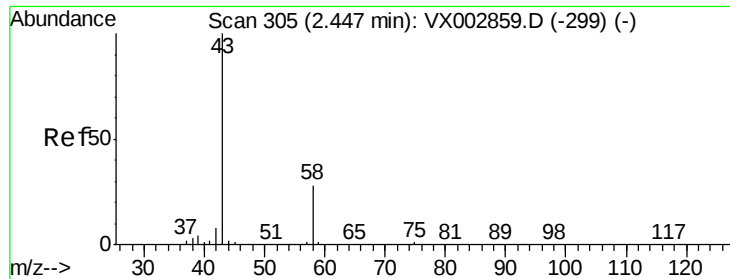
#13
Acrolein
Concen: 4.63 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002882.D
Acq: 26 Jun 2018 01:40

Tgt Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 220.1 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.64 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

Instrument :

MSVOA_X

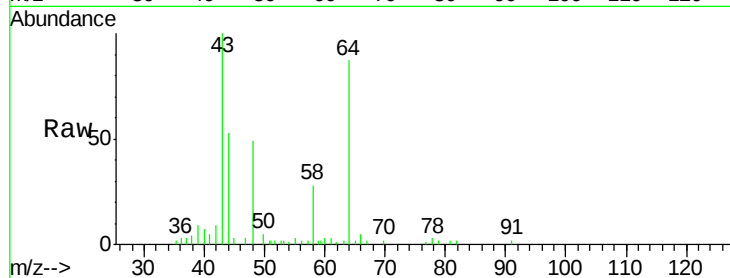
ClientSampleId :

Tot Ion: 43 Resp: 6539

Ion Ratio Lower Upper

43 100

58 28.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

4000

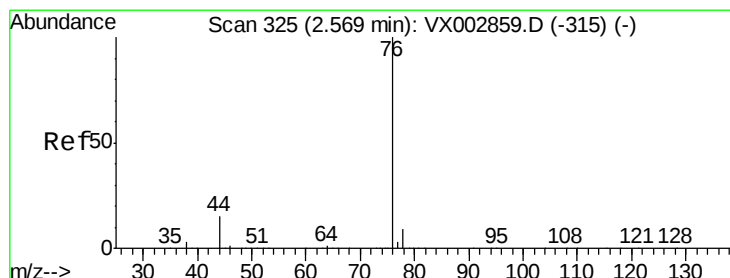
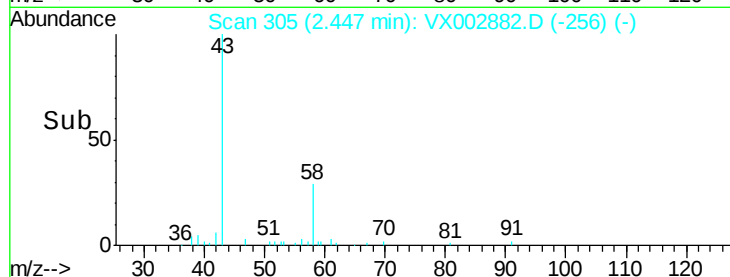
3000

2000

1000

0

Time-->



#17

Carbon Disulfide

Concen: 0.56 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002882.D

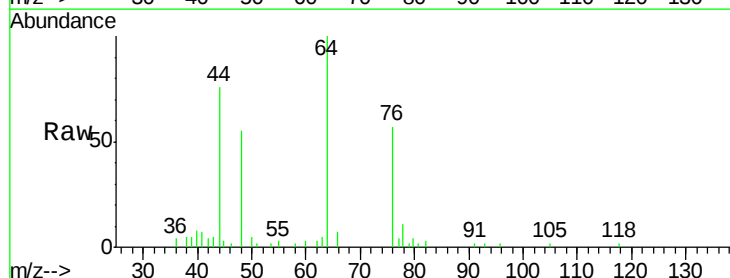
Acq: 26 Jun 2018 01:40

Tgt Ion: 76 Resp: 3618

Ion Ratio Lower Upper

76 100

78 18.7 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2000

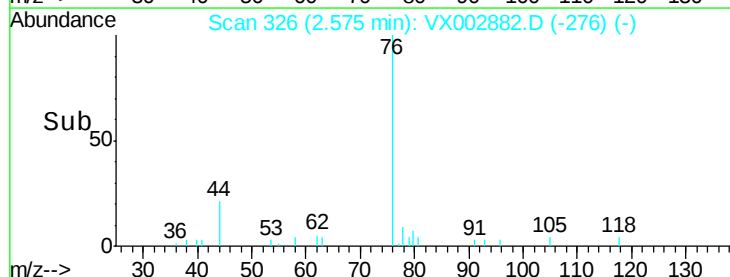
1500

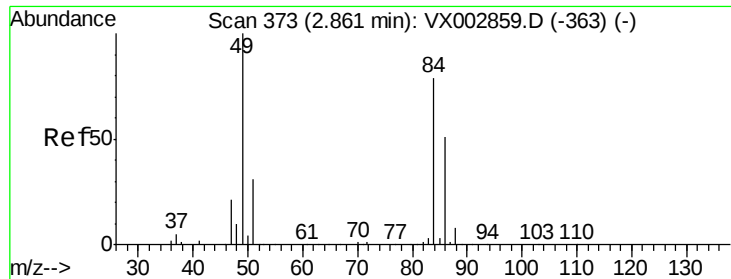
1000

500

0

Time-->

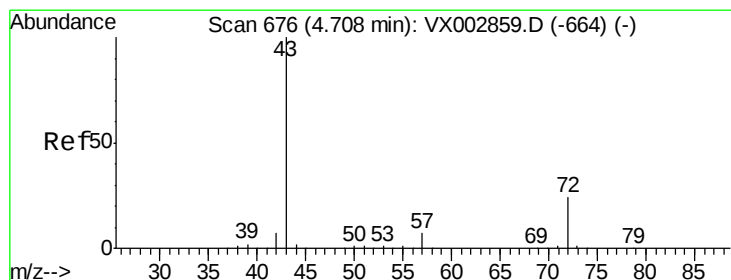
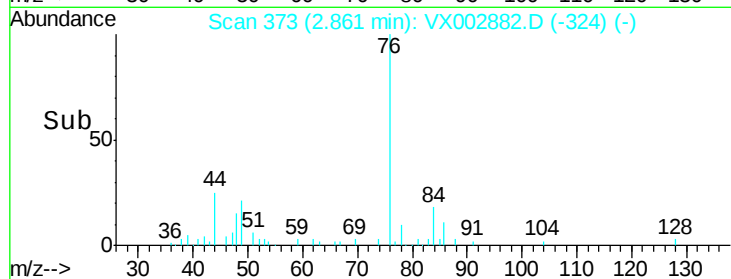
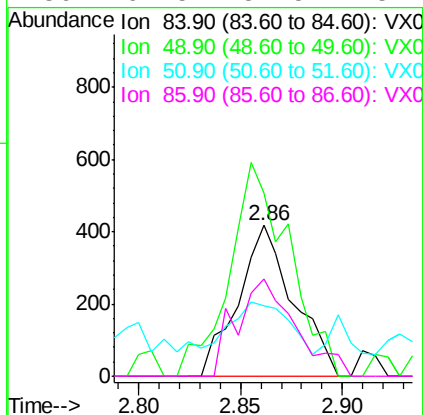
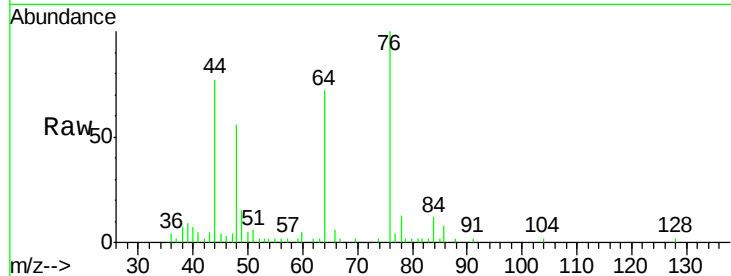




#20
Methvlene Chloride
Concen: 0.29 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002882.D
Acq: 26 Jun 2018 01:40

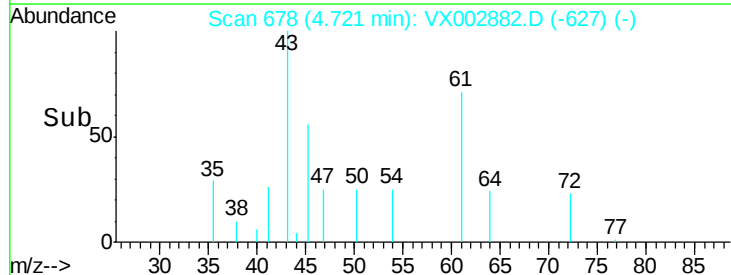
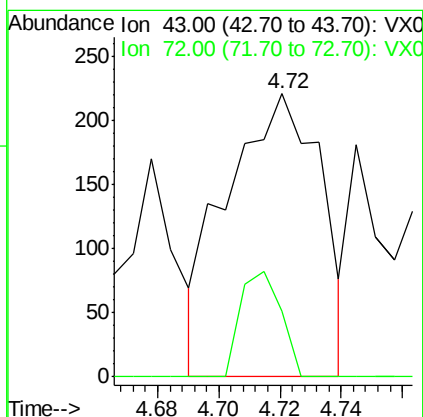
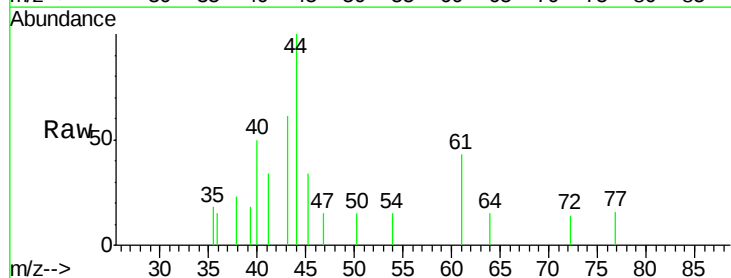
Instrument :
MSVOA_X
ClientSampleId :

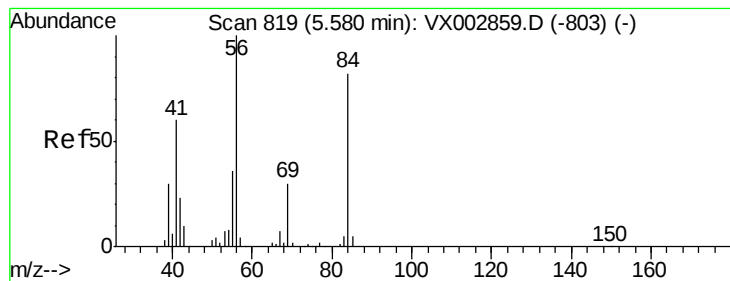
Tot Ion: 84 Resp: 789
Ion Ratio Lower Upper
84 100
49 121.1 107.8 161.6
51 23.5 32.8 49.2#
86 64.5 52.5 78.7



#25
2-Butanone
Concen: 0.23 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002882.D
Acq: 26 Jun 2018 01:40

Tgt Ion: 43 Resp: 473
Ion Ratio Lower Upper
43 100
72 33.6 18.5 27.7#





#31

Cyclohexane

Concen: 1.16 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

Instrument :

MSVOA_X

ClientSampleId :

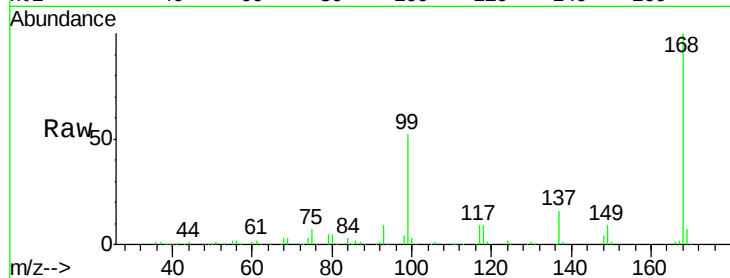
Tot Ion: 56 Resp: 4942

Ion Ratio Lower Upper

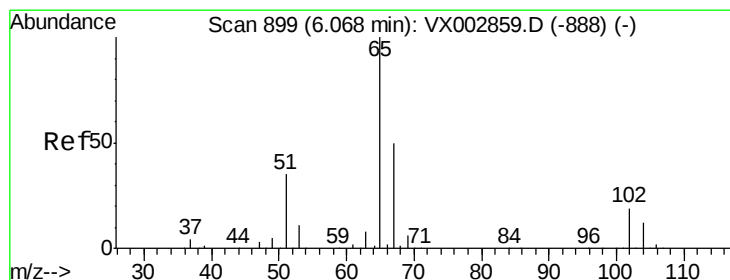
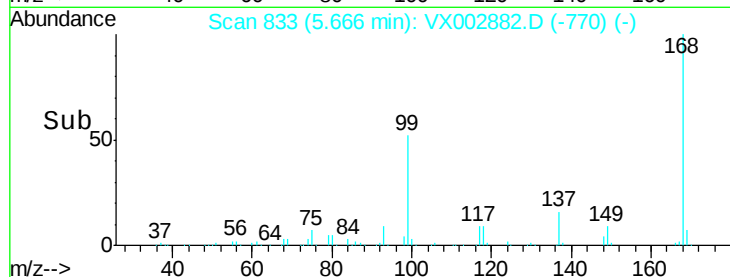
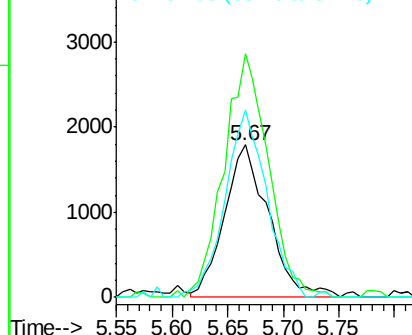
56 100

69 160.0 23.7 35.5#

84 123.3 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: 48.91 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002882.D

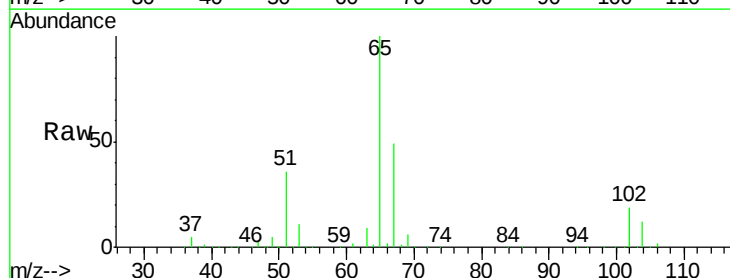
Acq: 26 Jun 2018 01:40

Tgt Ion: 65 Resp: 166309

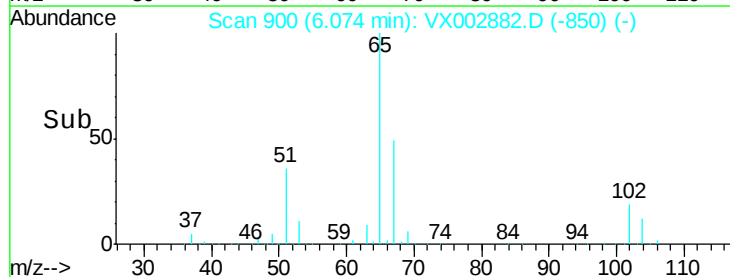
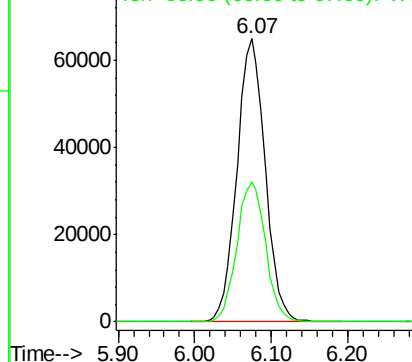
Ion Ratio Lower Upper

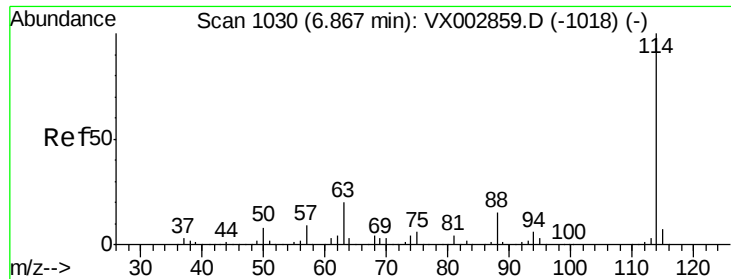
65 100

67 50.4 0.0 102.6



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

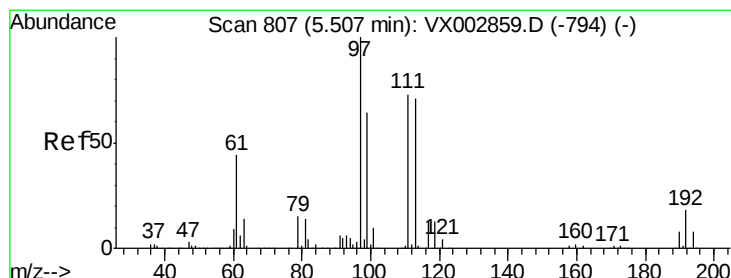
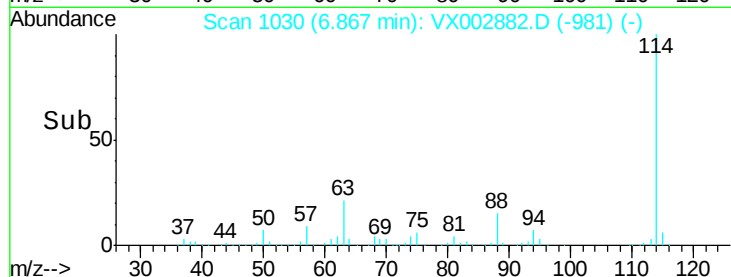
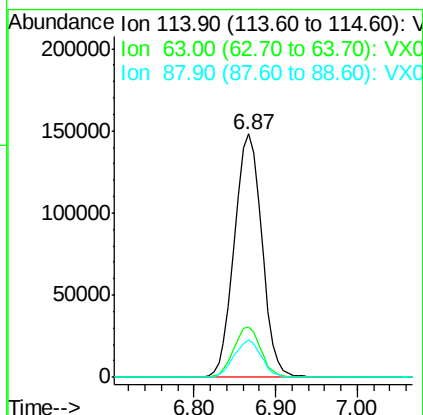
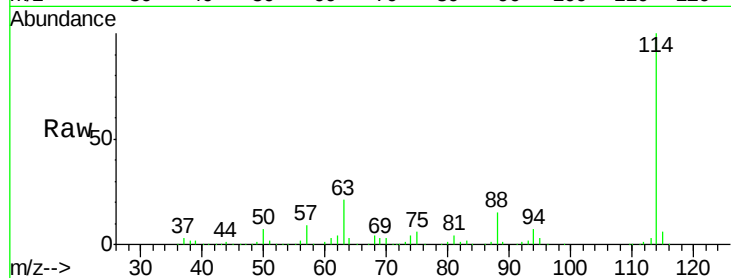




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002882.D
 Acq: 26 Jun 2018 01:40

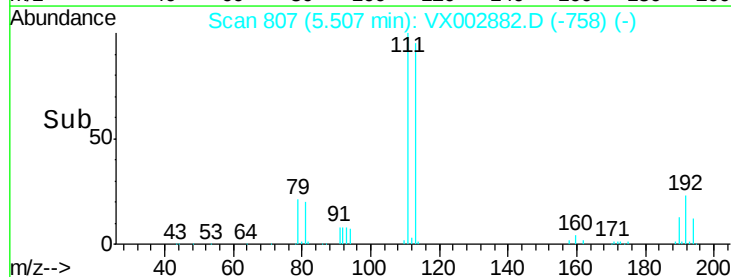
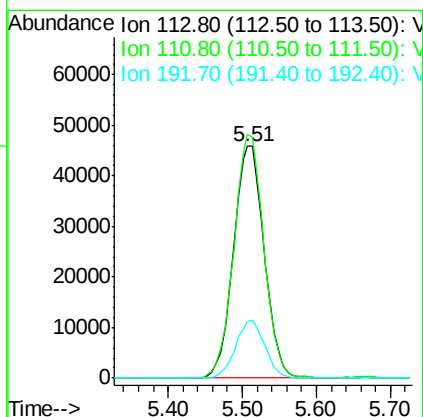
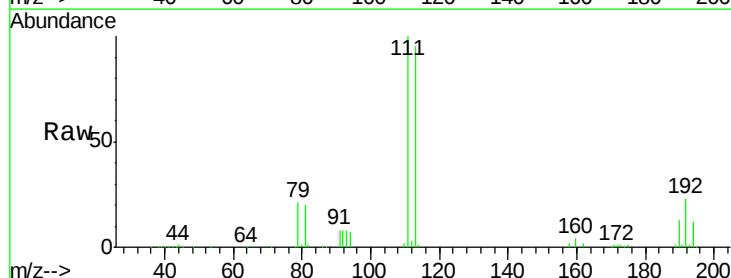
Instrument :
 MSVOA_X
 ClientSampleId :

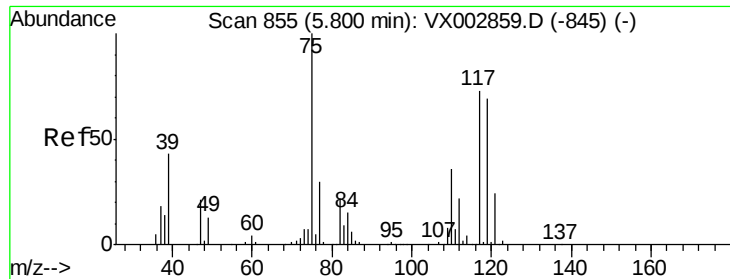
Tot Ion:114 Resp: 346420
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 41.4
 88 15.2 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 48.47 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002882.D
 Acq: 26 Jun 2018 01:40

Tgt Ion:113 Resp: 132956
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.4 122.0
 192 23.9 19.1 28.7

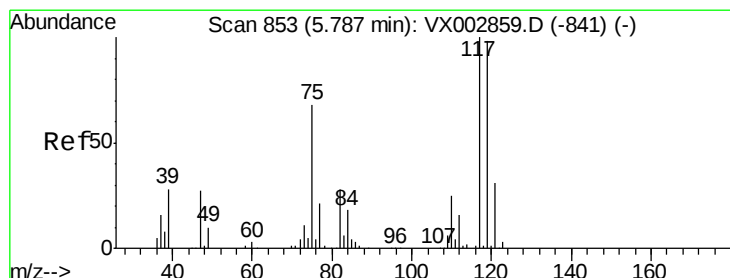
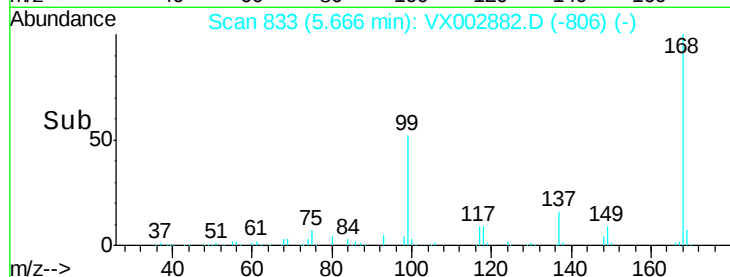
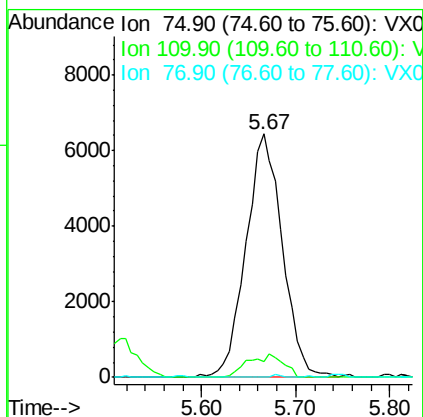
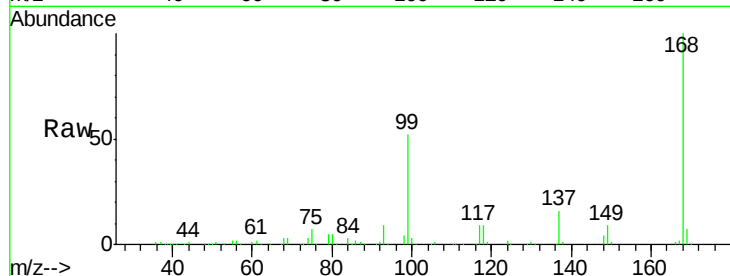




#36
 1,1-Dichloropropene
 Concen: 4.58 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002882.D
 Acq: 26 Jun 2018 01:40

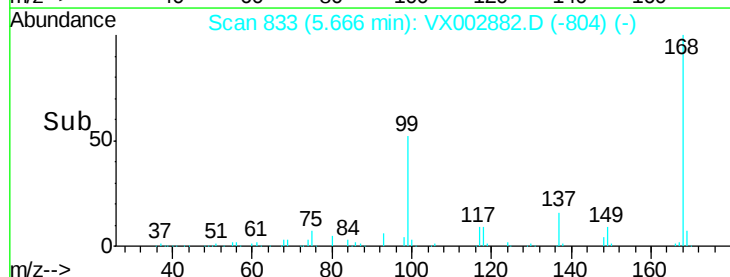
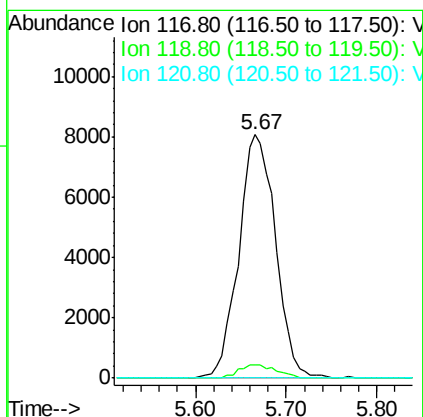
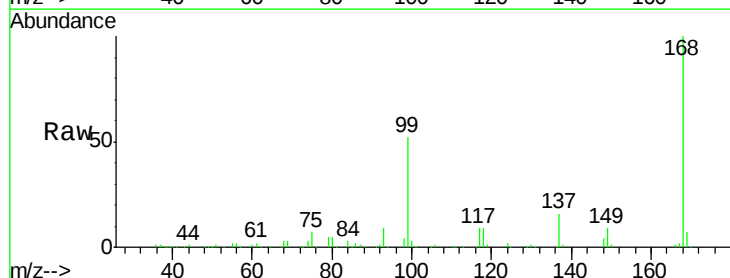
Instrument :
 MSVOA_X
 ClientSampleId :

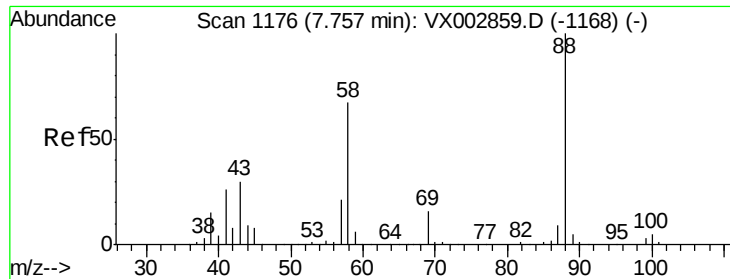
Tot Ion	75	Resp	17401
Ion Ratio	Lower	Upper	
75	100		
110	9.1	18.1	54.4#
77	0.3	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.42 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002882.D
 Acq: 26 Jun 2018 01:40

Tgt Ion	117	Resp	22611
Ion Ratio	Lower	Upper	
117	100		
119	5.4	77.4	116.0#
121	0.0	24.4	36.6#





#49

1,4-Dioxane

Concen: 0.33 ug/l

RT: 7.64 min Scan# 1157

Delta R.T. -0.12 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

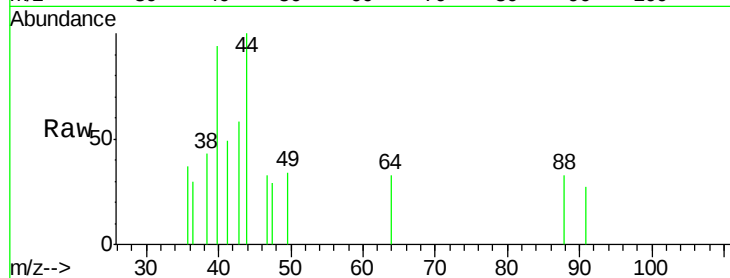
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 88 Resp: 23

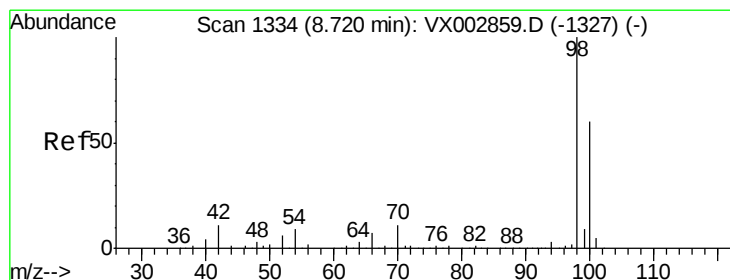
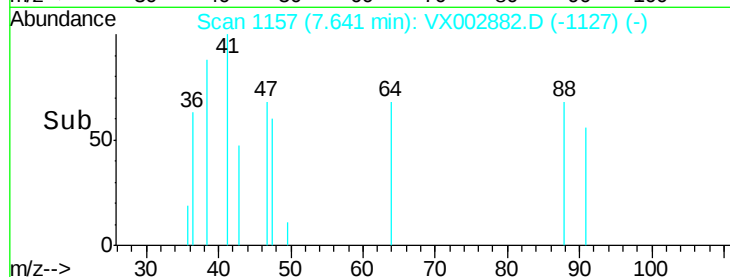
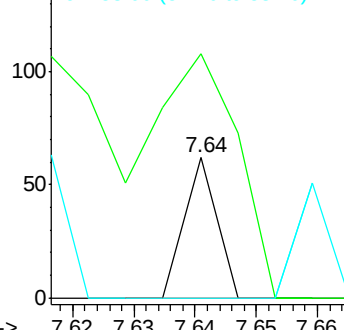
Ion	Ratio	Lower	Upper
88	100		
43	421.7	29.8	44.6#
58	82.6	57.1	85.7



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.96 ug/l

RT: 8.72 min Scan# 1334

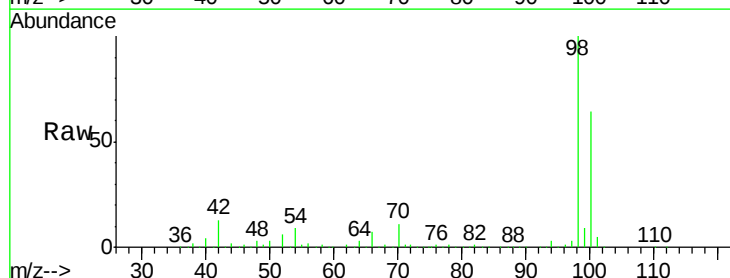
Delta R.T. 0.00 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

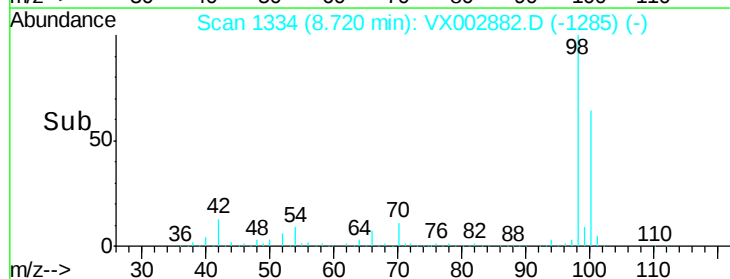
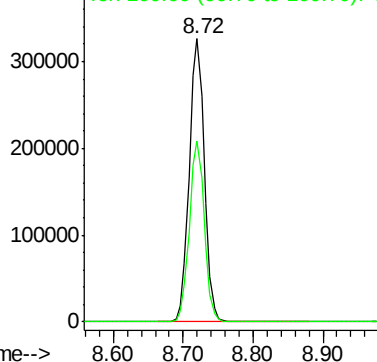
Tgt Ion: 98 Resp: 490513

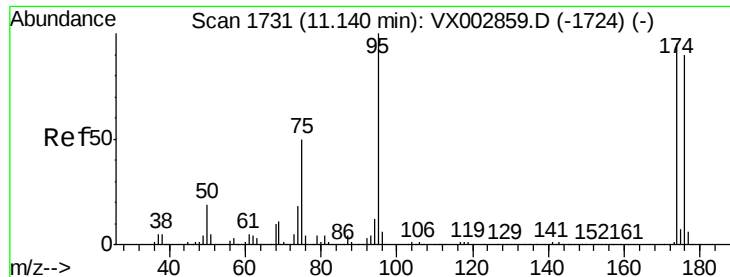
Ion	Ratio	Lower	Upper
98	100		
100	63.2	50.9	76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

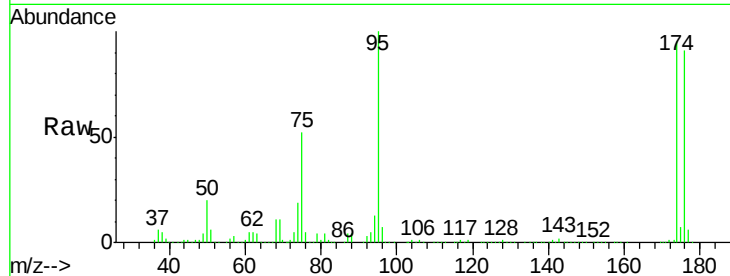




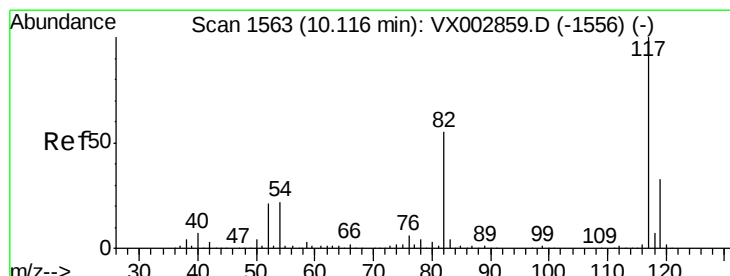
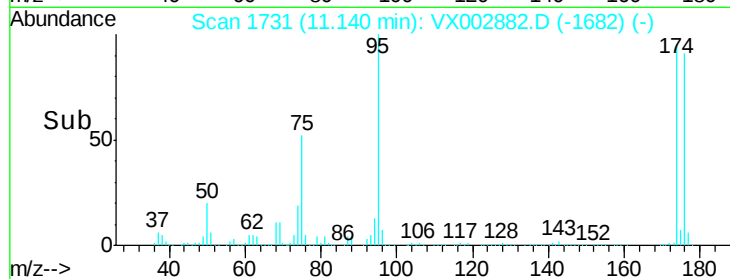
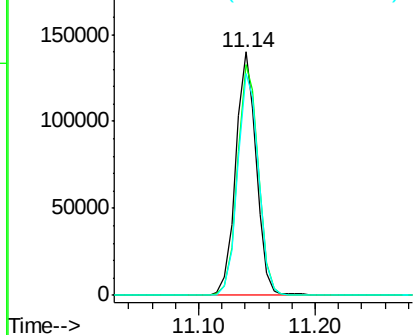
#62
4-Bromofluorobenzene
Concen: 44.61 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002882.D
Acq: 26 Jun 2018 01:40

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 95 Resp: 172346
Ion Ratio Lower Upper
95 100
174 95.9 0.0 187.4
176 93.1 0.0 181.0

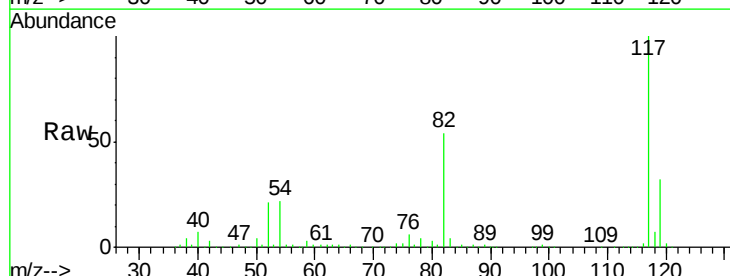


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

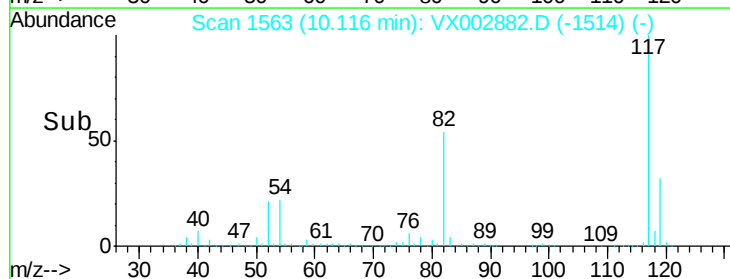
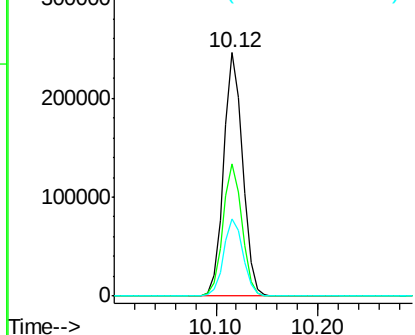


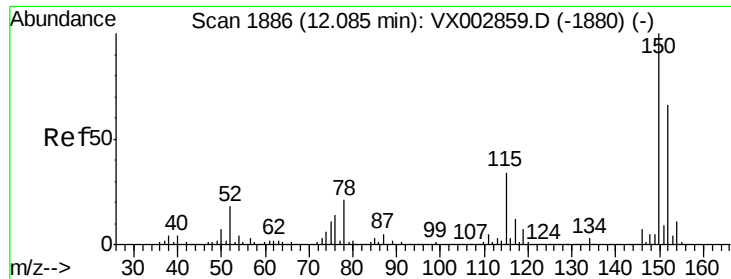
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002882.D
Acq: 26 Jun 2018 01:40

Tgt Ion: 117 Resp: 319410
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

Instrument :

MSVOA_X

ClientSampled :

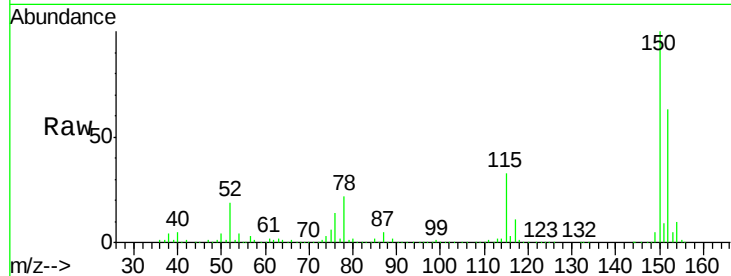
Tot Ion:152 Resp: 179454

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

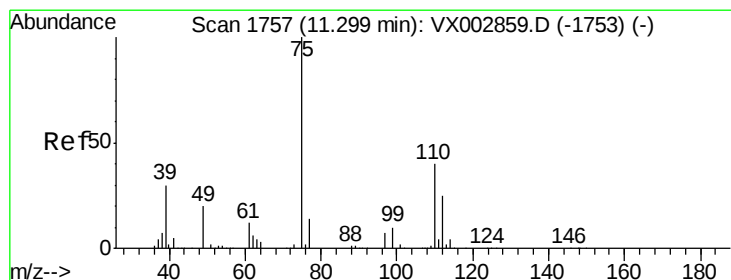
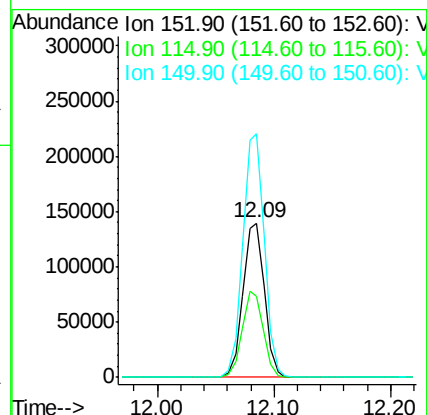
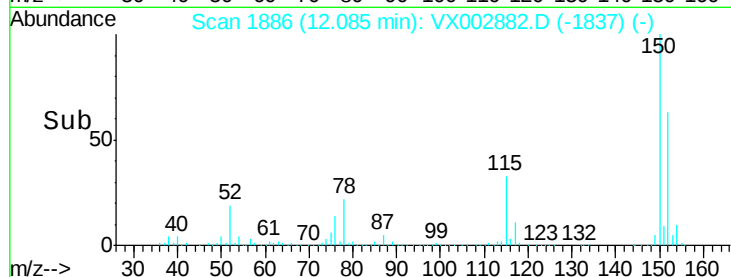
150 157.9 0.0 347.2



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: 27.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002882.D

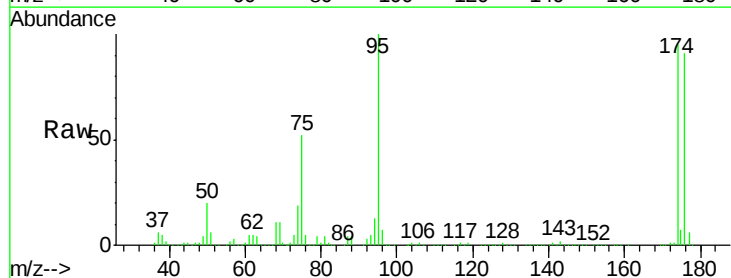
Acq: 26 Jun 2018 01:40

Tgt Ion: 75 Resp: 90492

Ion Ratio Lower Upper

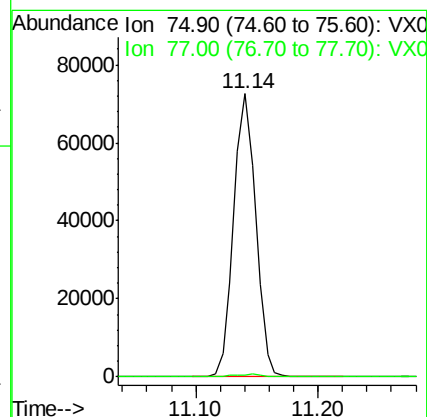
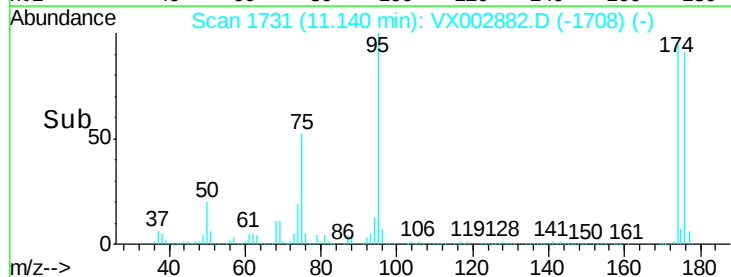
75 100

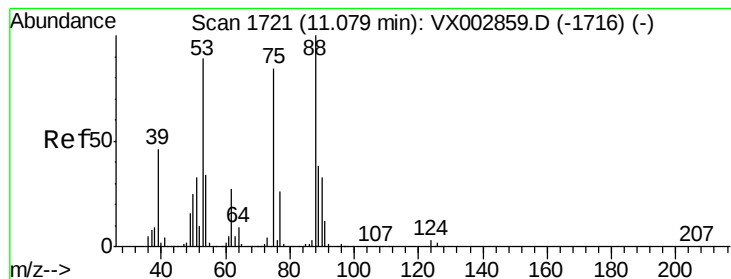
77 1.2 22.8 68.3#



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: 78.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002882.D

Acq: 26 Jun 2018 01:40

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 90492

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#

