

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030519\
 Data File : VX007833.D
 Acq On : 05 Mar 2019 13:28
 Operator : JC/SP
 Sample : K1659-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-UV(PRE)

Quant Time: Mar 06 00:08:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	322555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	501020	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	469095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	224689	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	177674	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	
35) Dibromofluoromethane	5.51	113	165209	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	604471	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
62) 4-Bromofluorobenzene	11.13	95	219832	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	

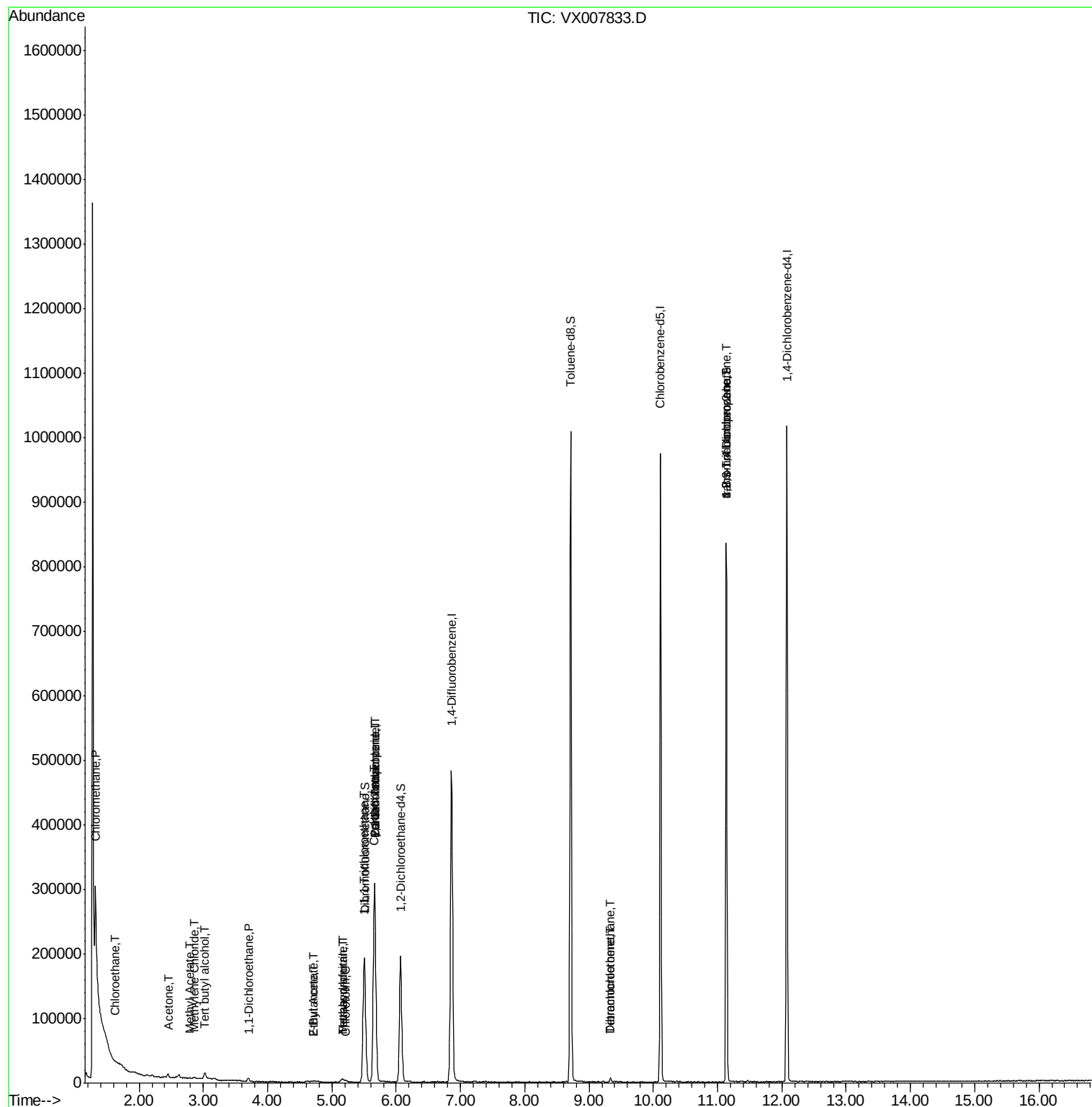
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	12789	3.884	ug/l #	47
5) Bromomethane	1.65	94	607	Below Cal	#	71
6) Chloroethane	1.64	64	5325	2.467	ug/l #	49
11) Tert butyl alcohol	3.02	59	6244	8.237	ug/l #	77
16) Acetone	2.45	43	6517	3.668	ug/l	99
18) Methyl Acetate	2.78	43	1093	0.282	ug/l	91
20) Methylene Chloride	2.86	84	669	0.204	ug/l	87
24) 1,1-Dichloroethane	3.70	63	5274	0.894	ug/l	97
25) 2-Butanone	4.71	43	2728	1.008	ug/l #	87
29) Tetrahydrofuran	5.17	42	4641	2.601	ug/l	90
30) Chloroform	5.22	83	1562	0.247	ug/l	95
31) Cyclohexane	5.65	56	5118	0.922	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2153	0.412	ug/l #	44
36) 1,1-Dichloropropene	5.67	75	19902	4.418	ug/l #	47
37) Ethyl Acetate	4.71	43	2728	0.545	ug/l #	68
38) Carbon Tetrachloride	5.67	117	27304	6.034	ug/l #	17
41) Methacrylonitrile	5.17	41	2556	0.957	ug/l #	48
60) Dibromochloromethane	9.34	129	1056	0.300	ug/l #	12
64) Tetrachloroethene	9.34	164	1136	0.298	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	100539	20.992	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	100539	55.877	ug/l #	9

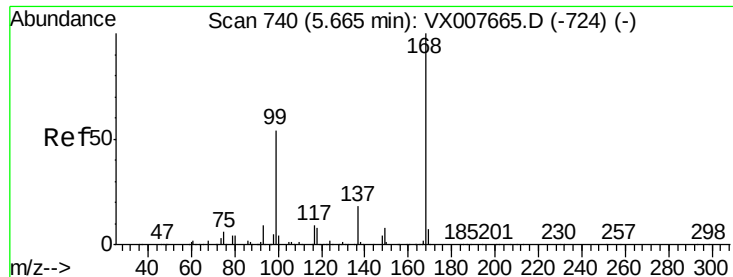
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 06 00:08:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

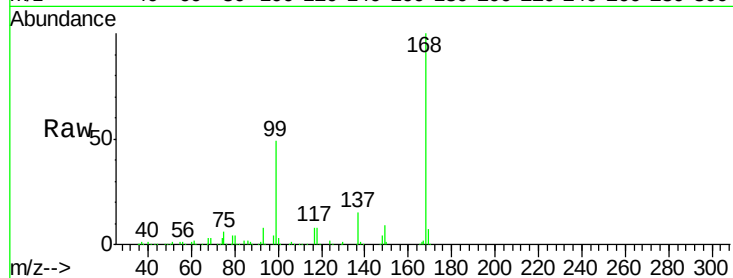
M1-T4A-UV(PRE)

Tot Ion:168 Resp: 322555

Ion Ratio Lower Upper

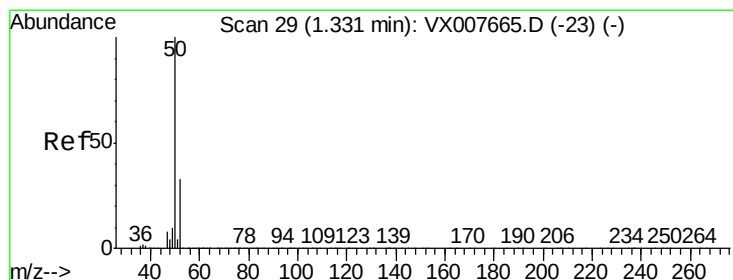
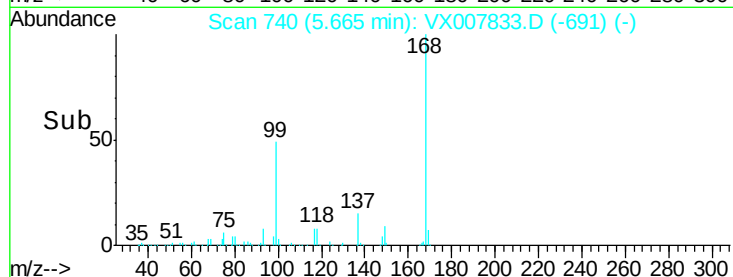
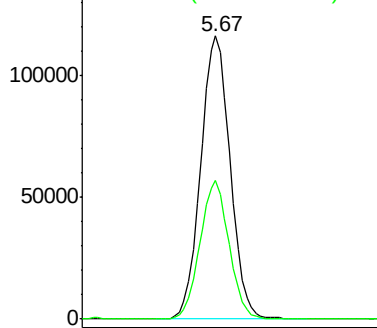
168 100

99 48.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 3.884 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007833.D

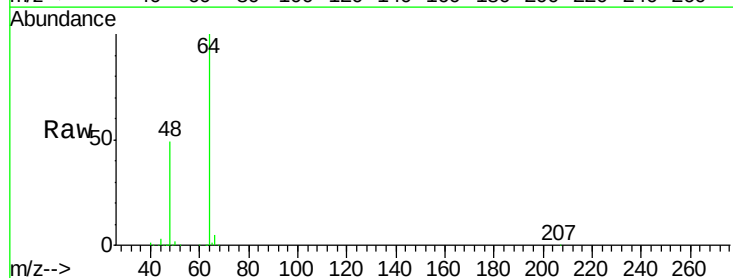
Acq: 05 Mar 2019 13:28

Tgt Ion: 50 Resp: 12789

Ion Ratio Lower Upper

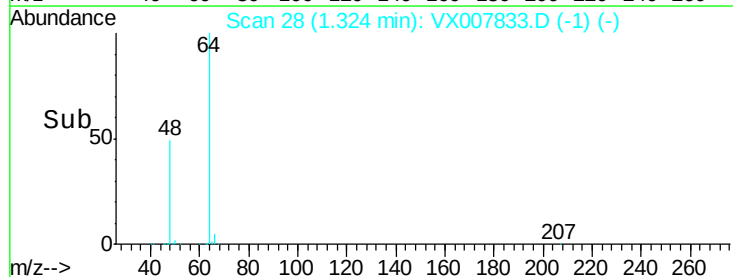
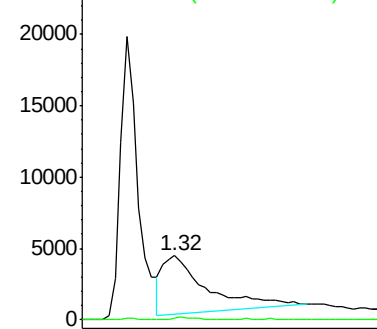
50 100

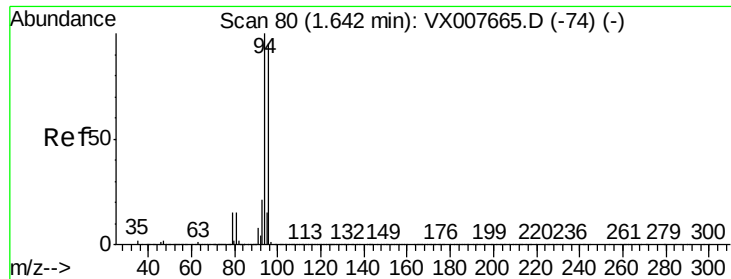
52 3.0 26.1 39.1#



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# 81

Delta R.T. 0.01 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

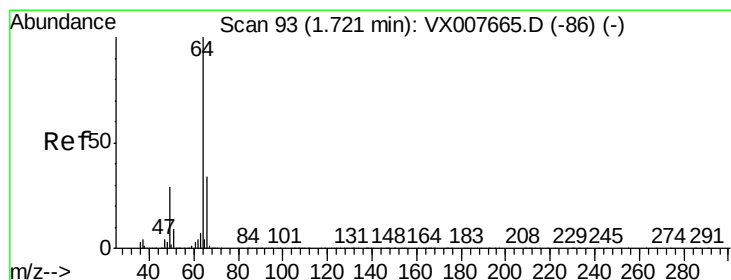
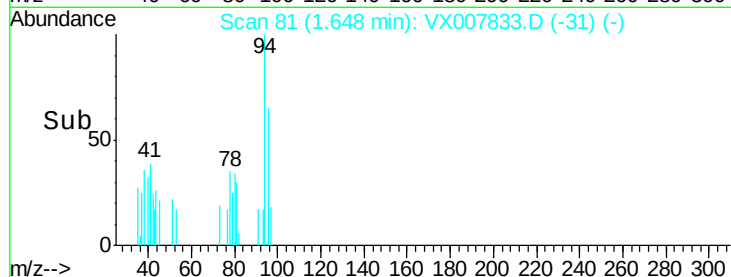
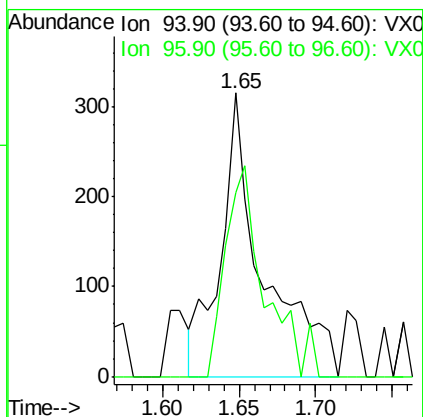
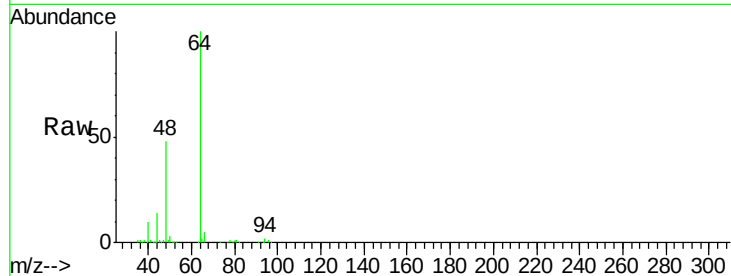
M1-T4A-UV(PRE)

Tot Ion: 94 Resp: 607

Ion Ratio Lower Upper

94 100

96 64.8 73.9 110.9#



#6

Chloroethane

Concen: 2.467 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.09 min

Lab File: VX007833.D

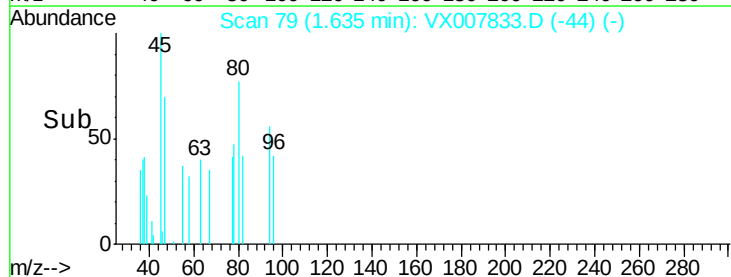
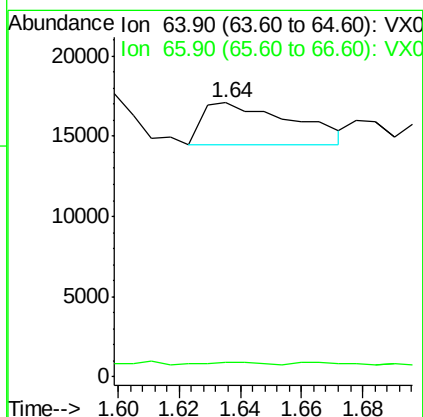
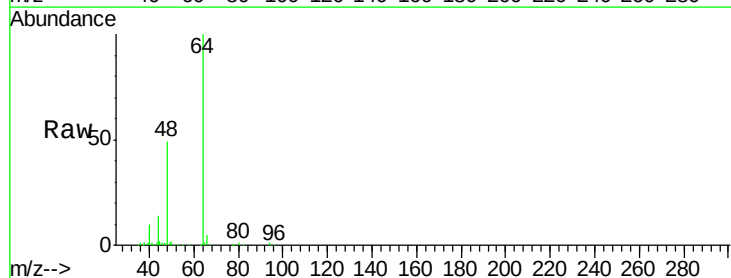
Acq: 05 Mar 2019 13:28

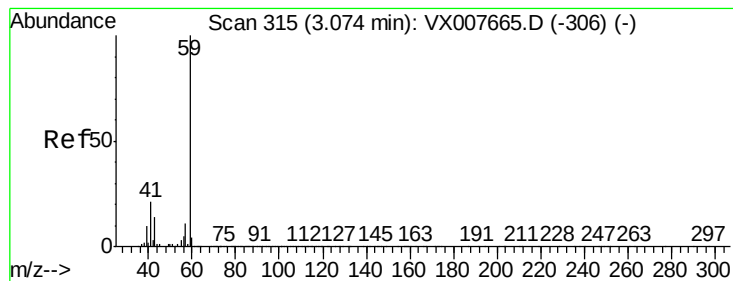
Tgt Ion: 64 Resp: 5325

Ion Ratio Lower Upper

64 100

66 3.7 25.5 38.3#



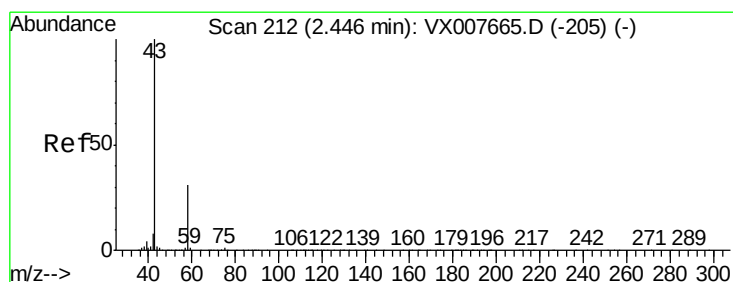
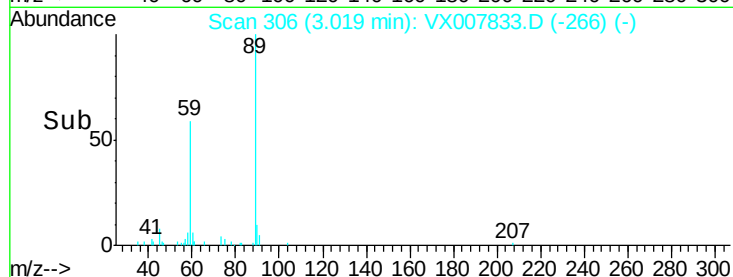
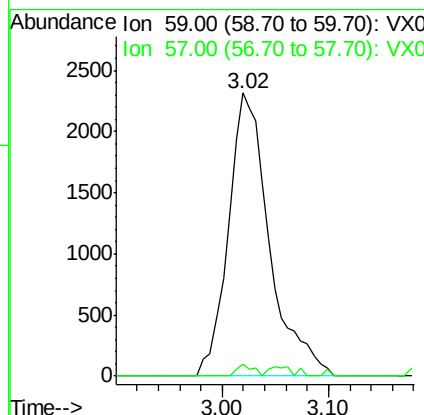
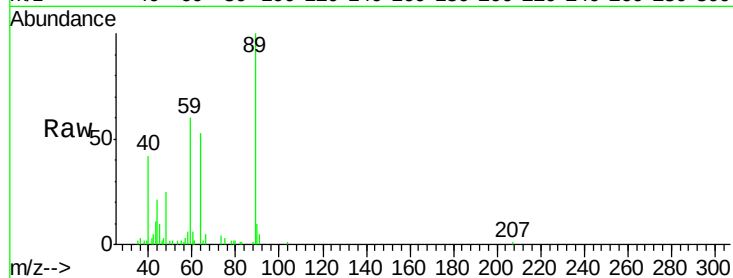


#11

Tert butyl alcohol
 Concen: 8.237 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX007833.D
 Acq: 05 Mar 2019 13:28

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-UV(PRE)

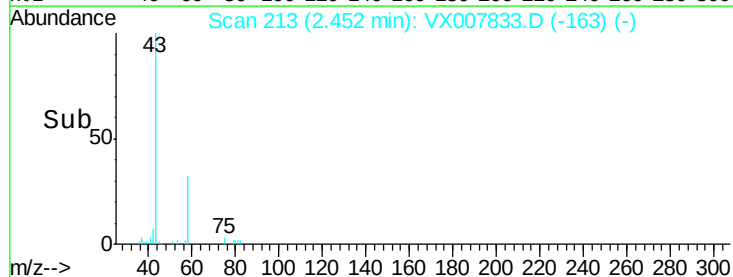
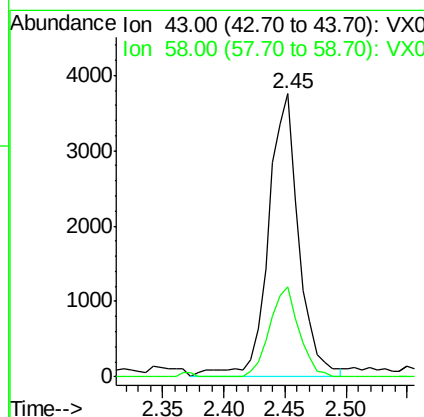
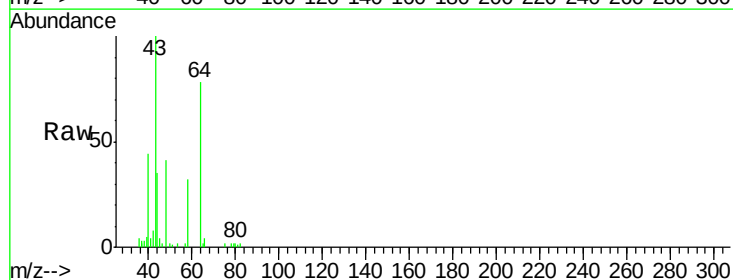
Tot Ion: 59 Resp: 6244
 Ion Ratio Lower Upper
 59 100
 57 1.6 8.1 12.1#

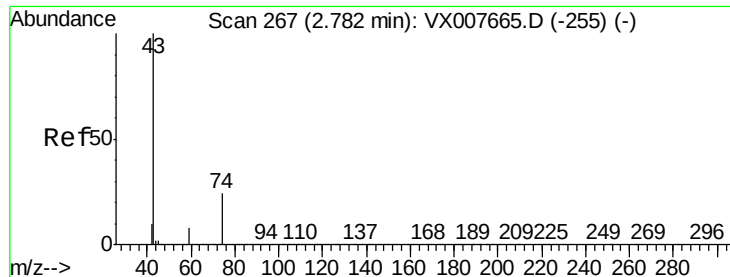


#16

Acetone
 Concen: 3.668 ug/l
 RT: 2.45 min Scan# 213
 Delta R.T. 0.01 min
 Lab File: VX007833.D
 Acq: 05 Mar 2019 13:28

Tgt Ion: 43 Resp: 6517
 Ion Ratio Lower Upper
 43 100
 58 31.7 24.9 37.3

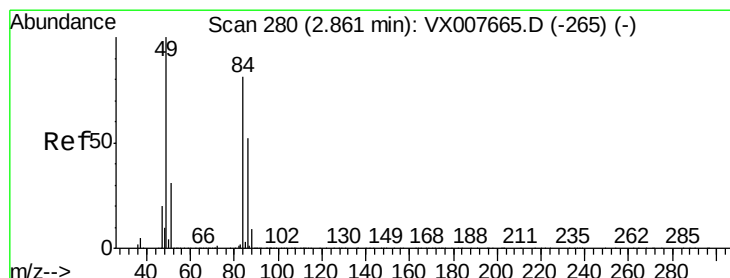
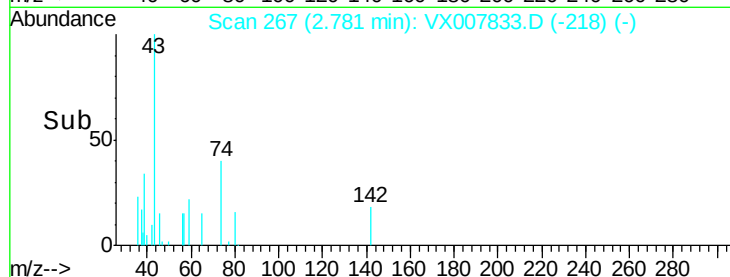
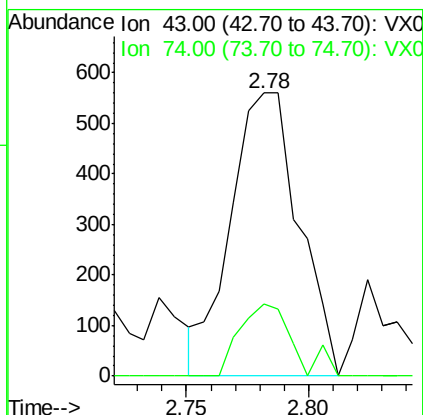
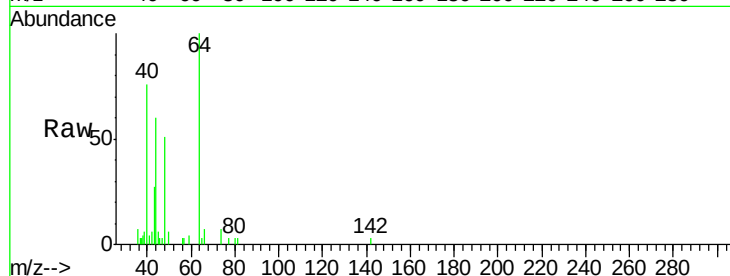




#18
Methyl Acetate
Concen: 0.282 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

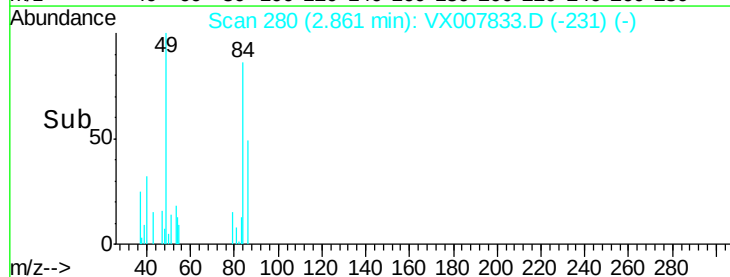
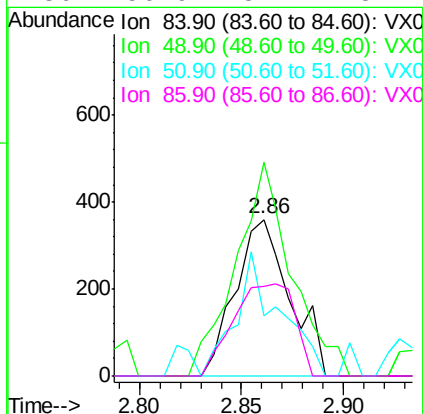
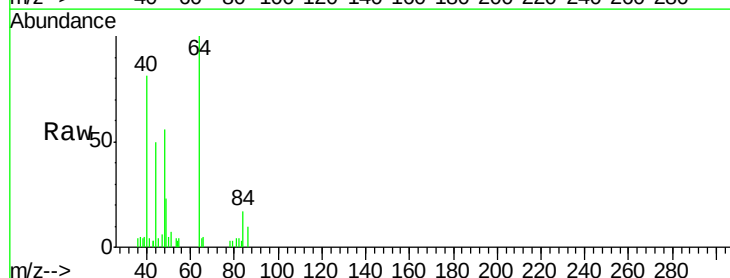
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-UV(PRE)

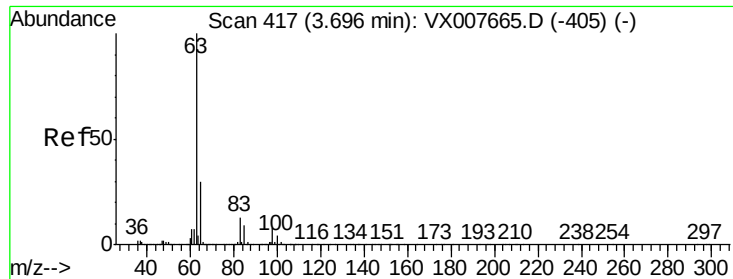
Tot Ion: 43 Resp: 1093
Ion Ratio Lower Upper
43 100
74 19.9 19.4 29.2



#20
Methylene Chloride
Concen: 0.204 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

Tgt Ion: 84 Resp: 669
Ion Ratio Lower Upper
84 100
49 136.4 94.8 142.2
51 38.1 29.8 44.8
86 56.9 54.1 81.1





#24

1,1-Dichloroethane

Concen: 0.894 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-UV(PRE)

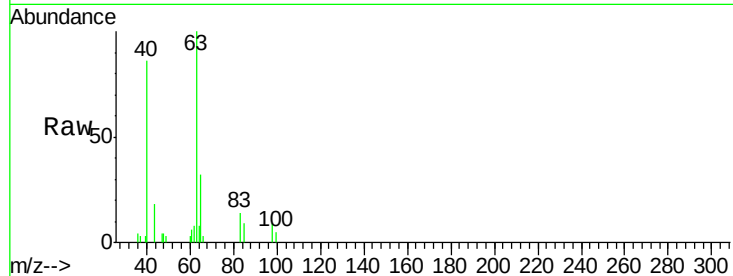
Tot Ion: 63 Resp: 5274

Ion Ratio Lower Upper

63 100

98 8.8 3.6 10.8

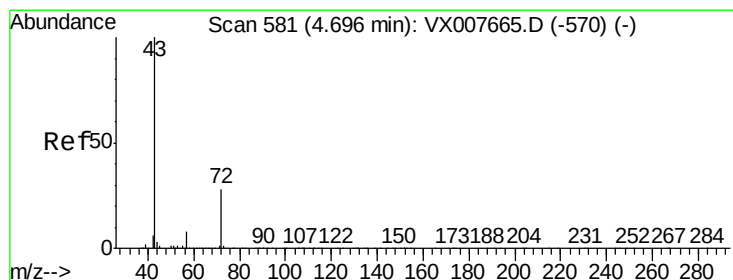
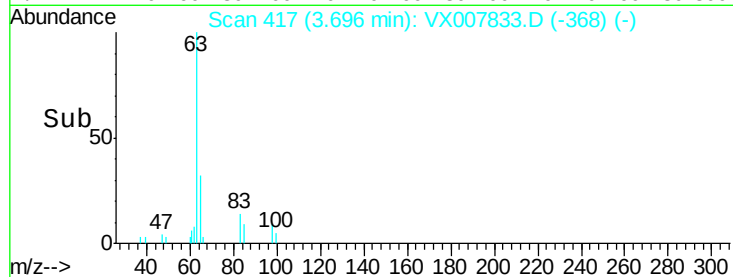
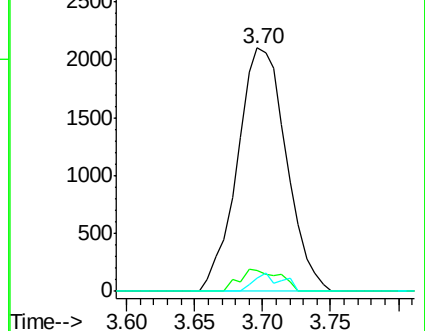
100 5.2 2.5 7.4



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 1.008 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007833.D

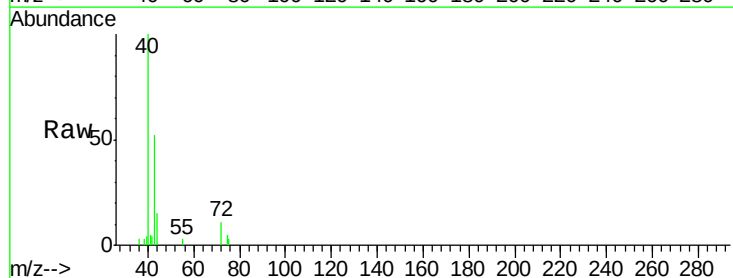
Acq: 05 Mar 2019 13:28

Tgt Ion: 43 Resp: 2728

Ion Ratio Lower Upper

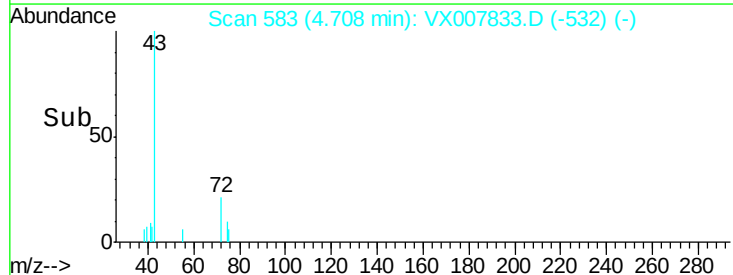
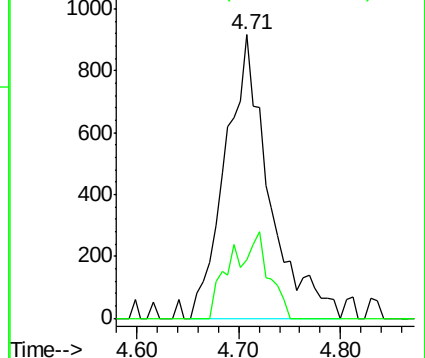
43 100

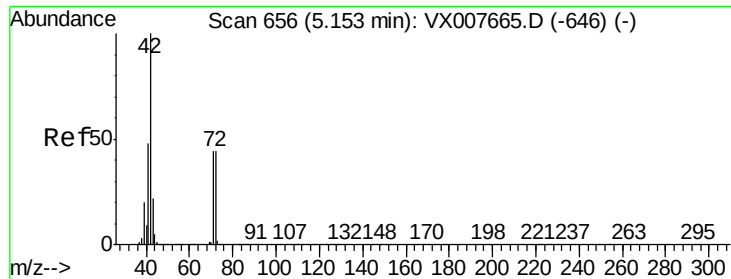
72 20.6 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 2.601 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

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ClientSampleId :

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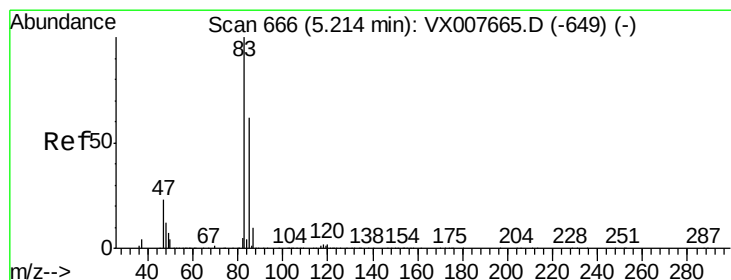
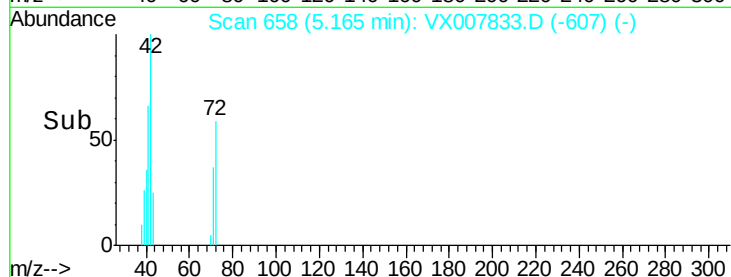
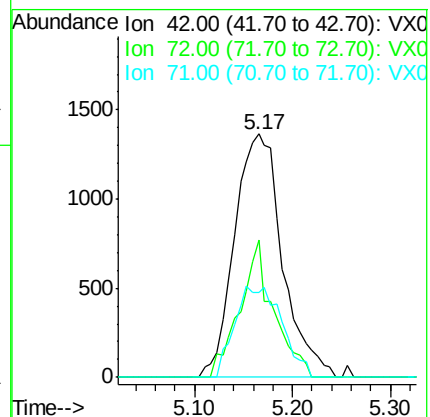
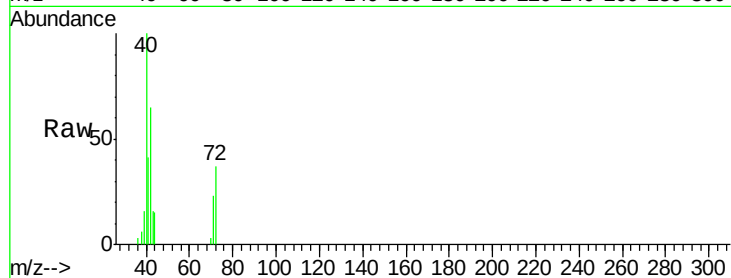
Tot Ion: 42 Resp: 4641

Ion Ratio Lower Upper

42 100

72 39.7 37.6 56.4

71 36.8 34.6 51.8



#30

Chloroform

Concen: 0.247 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX007833.D

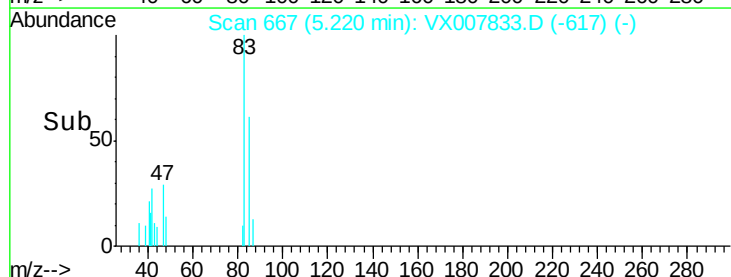
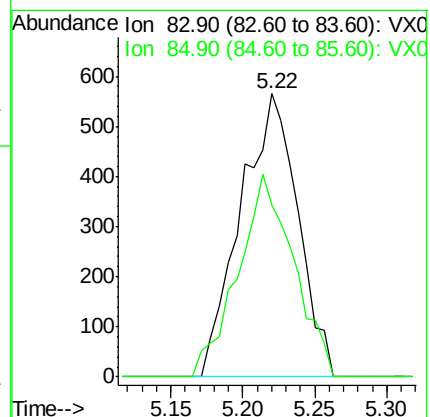
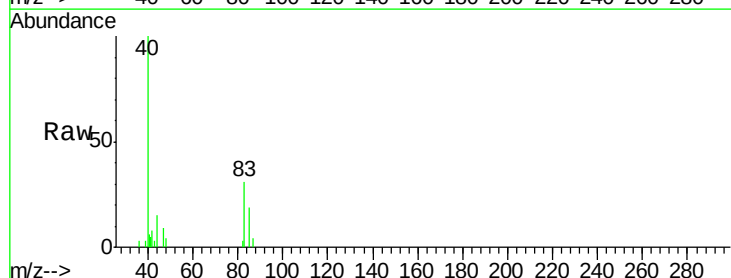
Acq: 05 Mar 2019 13:28

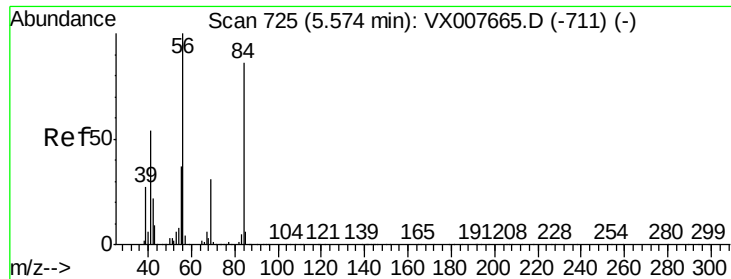
Tgt Ion: 83 Resp: 1562

Ion Ratio Lower Upper

83 100

85 60.7 51.6 77.4

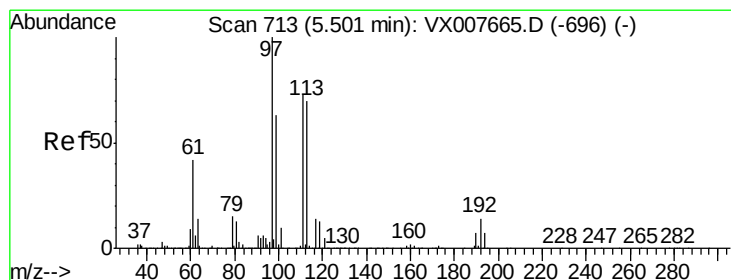
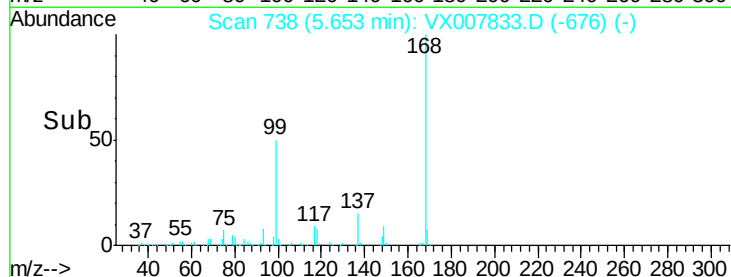
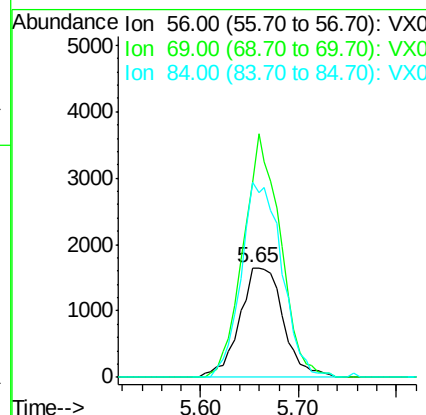
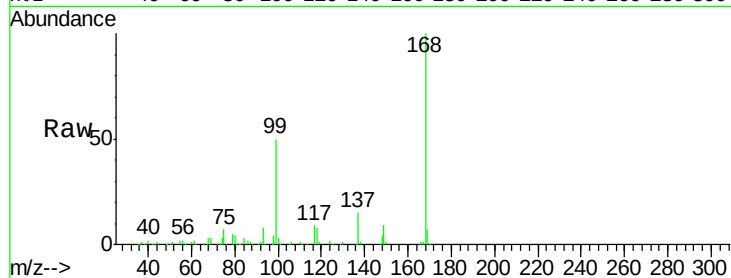




#31
Cvclohexane
Concen: 0.922 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

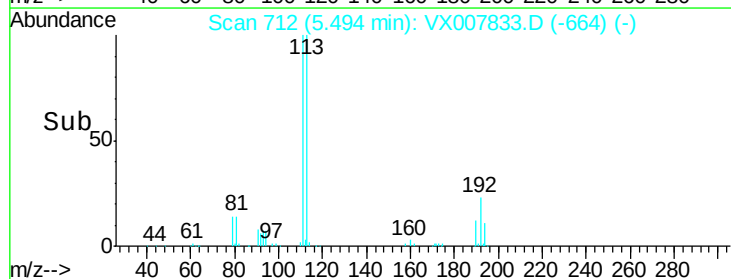
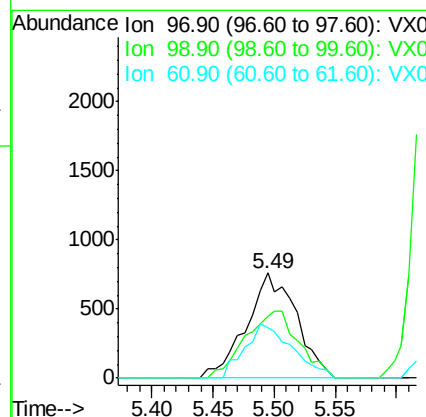
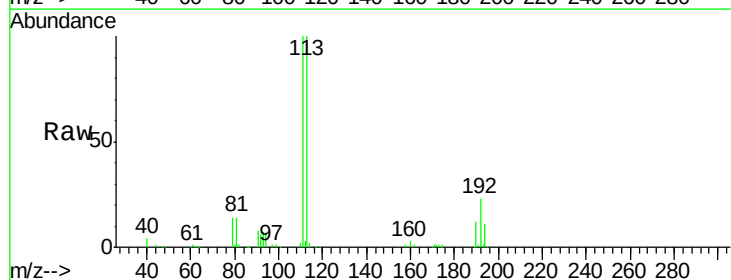
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M1-T4A-UV(PRE)

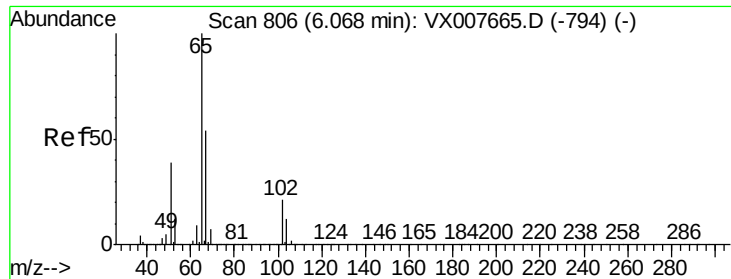
Tot Ion: 56 Resp: 5118
Ion Ratio Lower Upper
56 100
69 178.6 23.0 34.6#
84 177.8 69.8 104.6#



#32
1,1,1-Trichloroethane
Concen: 0.412 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.01 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

Tgt Ion: 97 Resp: 2153
Ion Ratio Lower Upper
97 100
99 0.0 52.2 78.2#
61 48.8 32.7 49.1

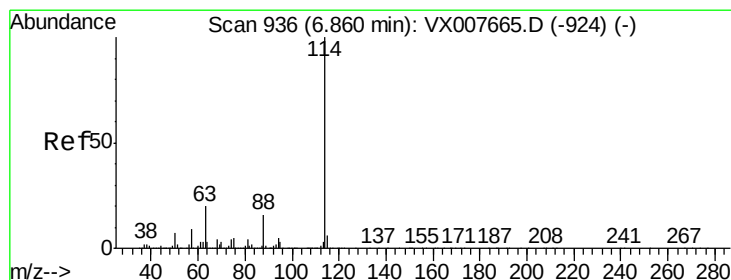
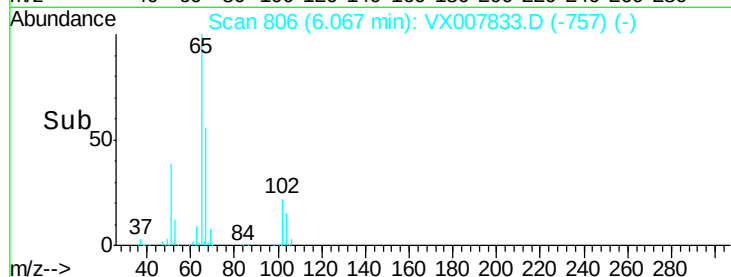
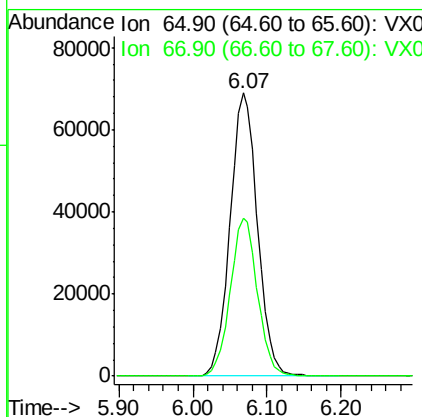
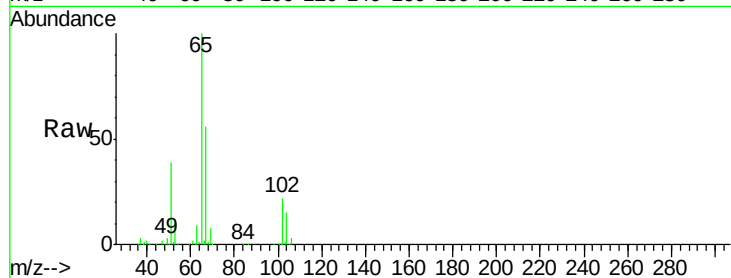




#33
 1,2-Dichloroethane-d4
 Concen: 44.469 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007833.D
 Acq: 05 Mar 2019 13:28

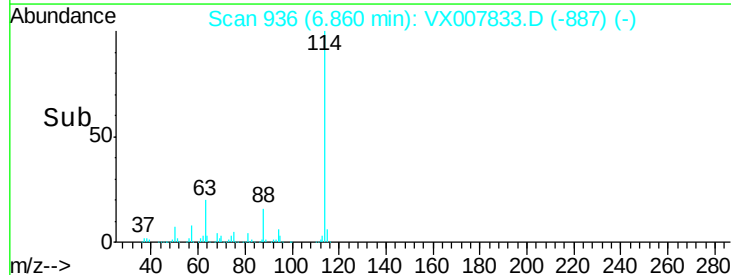
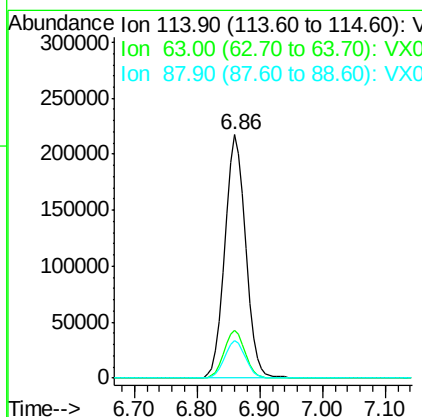
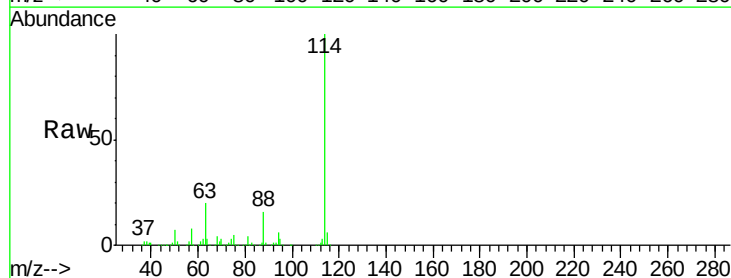
Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-UV(PRE)

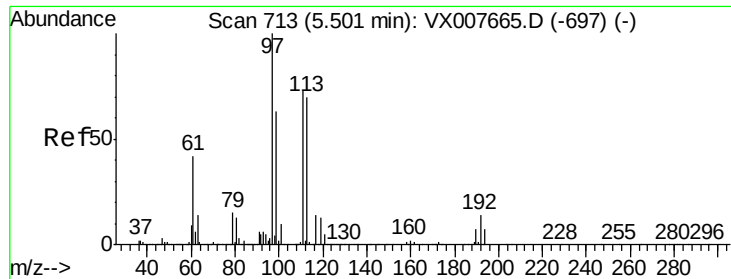
Tot Ion: 65 Resp: 177674
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007833.D
 Acq: 05 Mar 2019 13:28

Tgt Ion: 114 Resp: 501020
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 35.6
 88 15.5 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.328 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-UV(PRE)

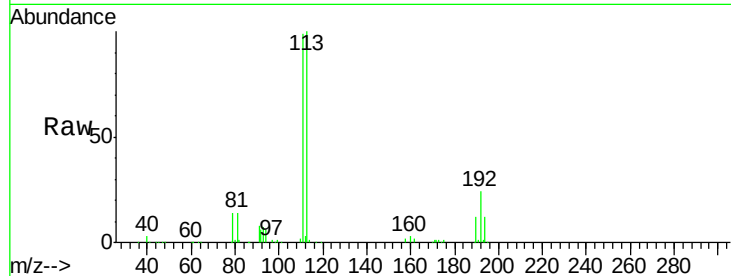
Tot Ion:113 Resp: 165209

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

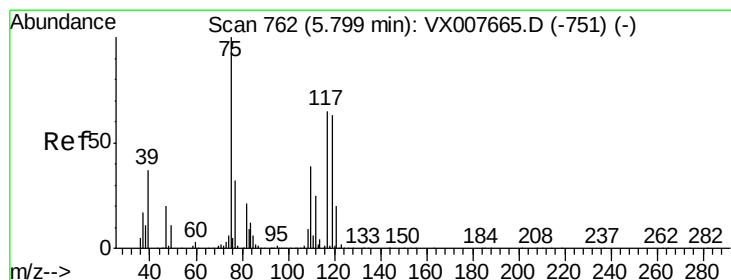
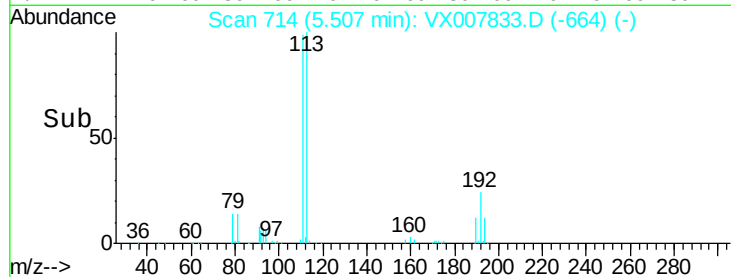
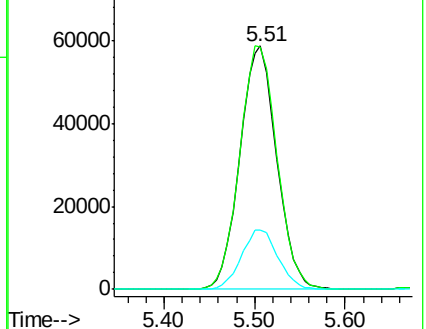
192 24.5 18.5 27.7



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: 4.418 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

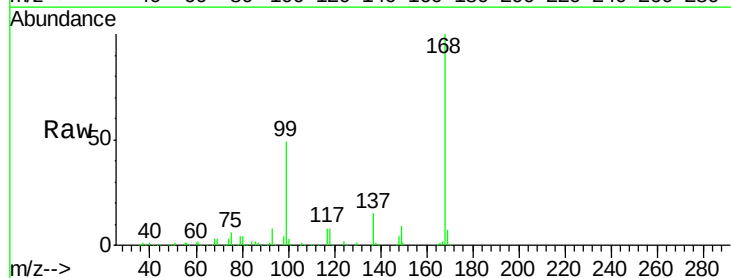
Tgt Ion: 75 Resp: 19902

Ion Ratio Lower Upper

75 100

110 9.1 20.0 59.9#

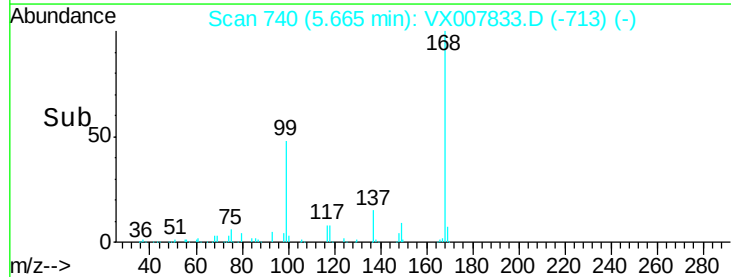
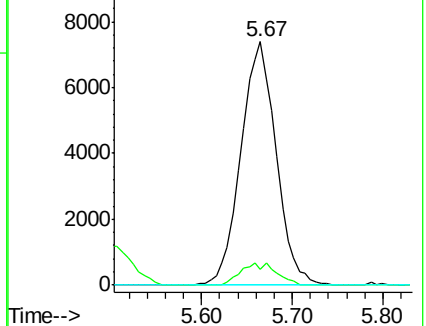
77 0.0 24.7 37.1#

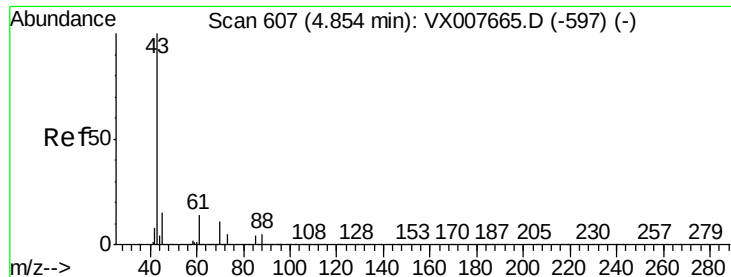


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

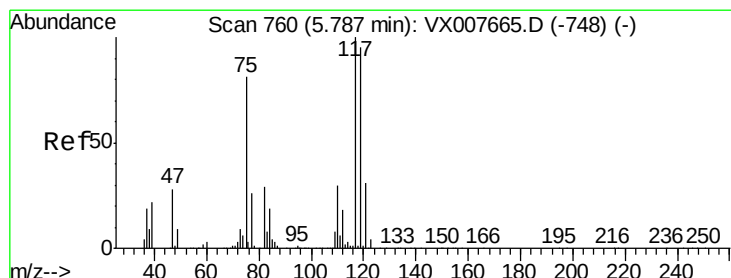
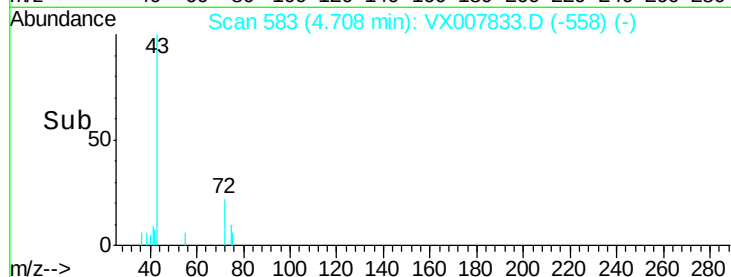
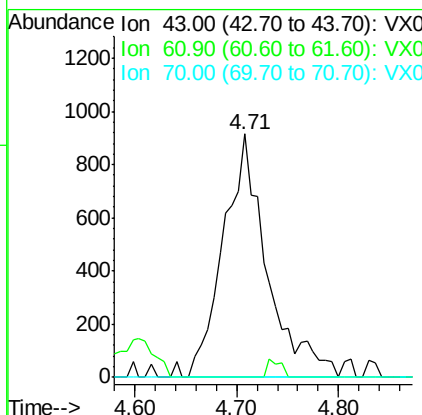
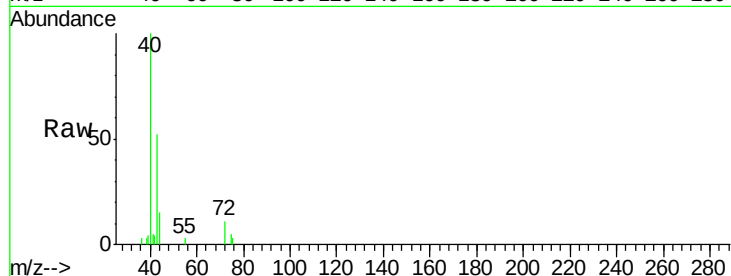




#37
Ethyl Acetate
Concen: 0.545 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

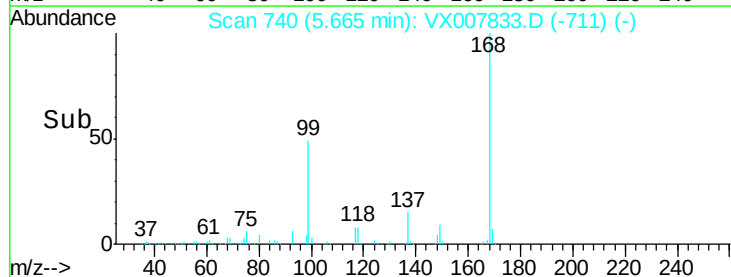
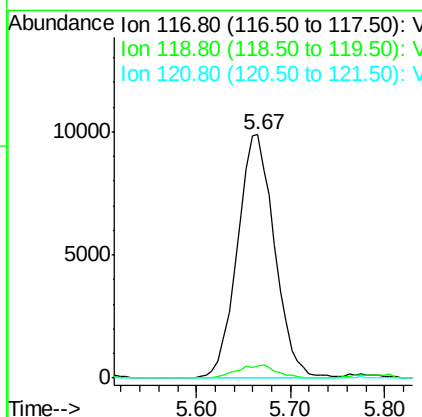
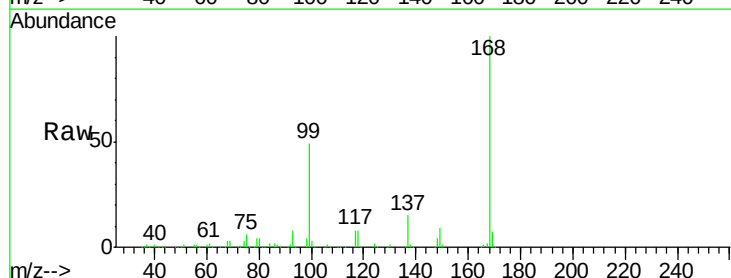
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-UV(PRE)

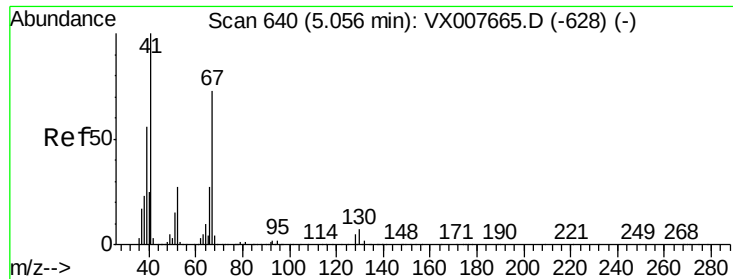
Tot Ion: 43 Resp: 2728
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 8.6 13.0#



#38
Carbon Tetrachloride
Concen: 6.034 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

Tgt Ion: 117 Resp: 27304
Ion Ratio Lower Upper
117 100
119 5.1 75.3 112.9#
121 0.0 25.0 37.4#

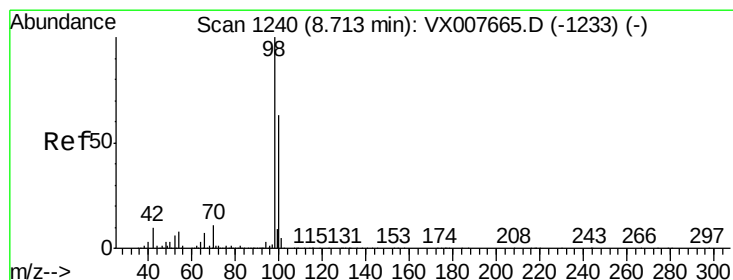
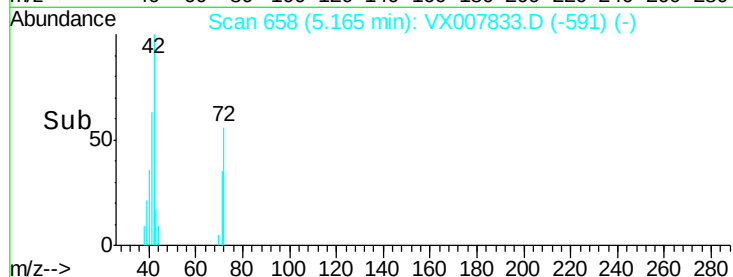
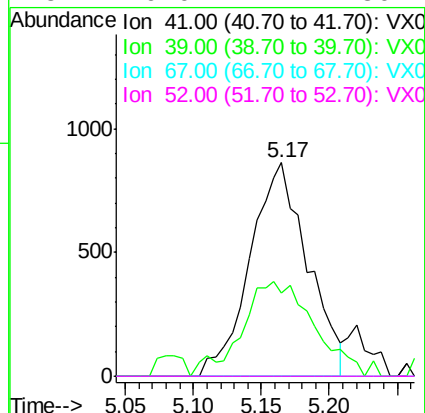
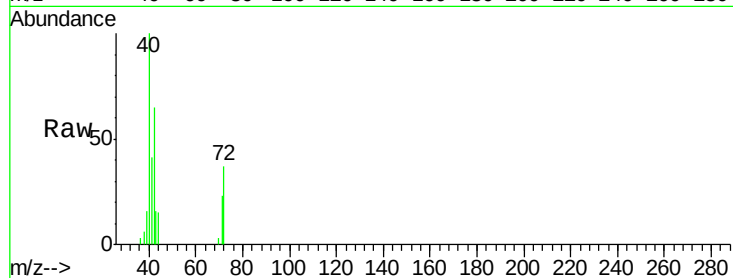




#41
Methacrylonitrile
Concen: 0.957 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.11 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

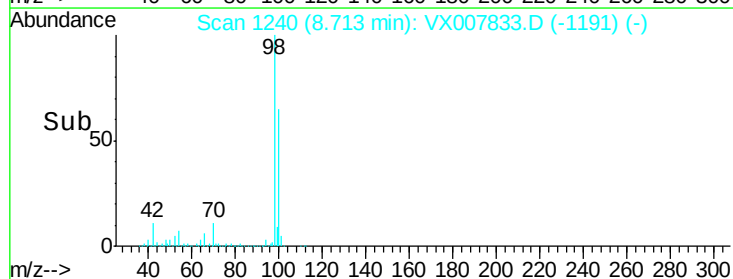
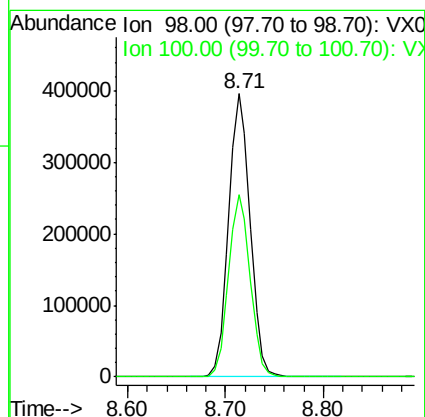
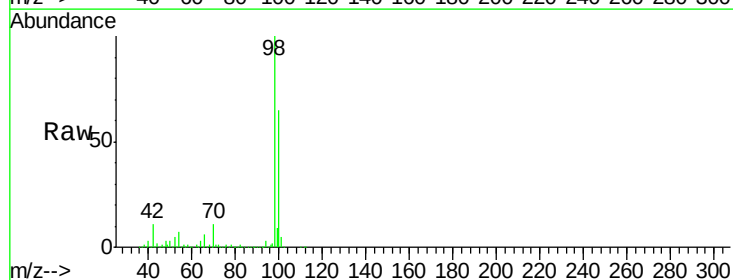
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-UV(PRE)

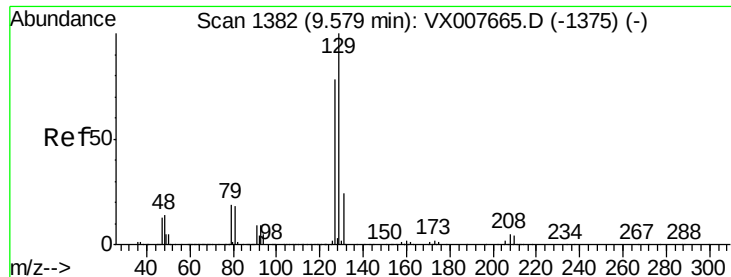
Tot Ion:	41	Resp:	2556
Ion	Ratio	Lower	Upper
41	100		
39	55.9	44.5	66.7
67	0.0	60.4	90.6#
52	0.0	24.1	36.1#



#50
Toluene-d8
Concen: 47.144 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

Tgt Ion:	98	Resp:	604471
Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.6	77.4





#60

Dibromochloromethane

Concen: 0.300 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

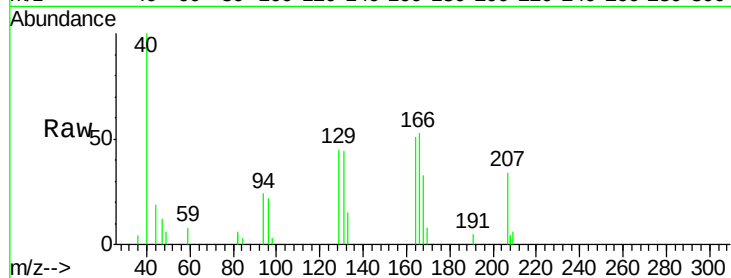
M1-T4A-UV(PRE)

Tot Ion:129 Resp: 1056

Ion Ratio Lower Upper

129 100

127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

800

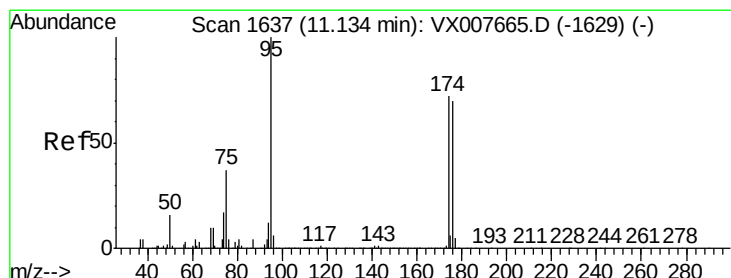
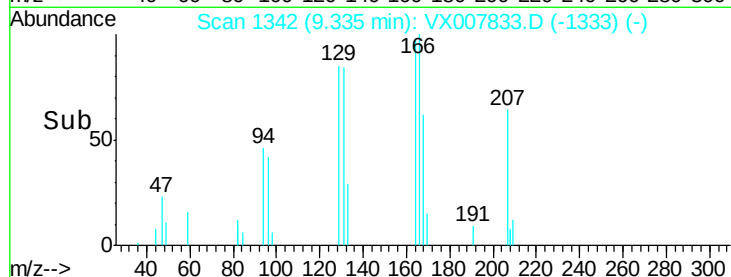
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.712 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

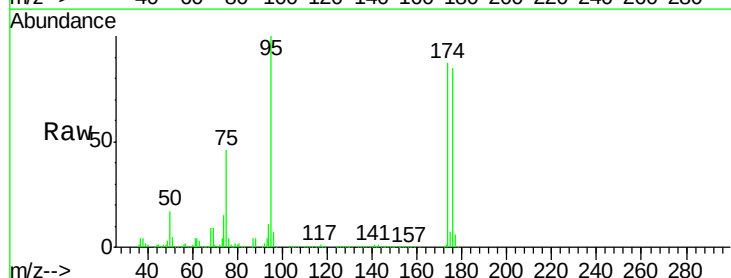
Tgt Ion: 95 Resp: 219832

Ion Ratio Lower Upper

95 100

174 92.4 0.0 189.2

176 89.5 0.0 186.2



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

11.13

200000

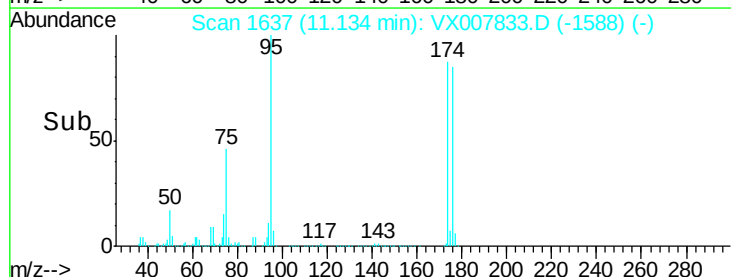
150000

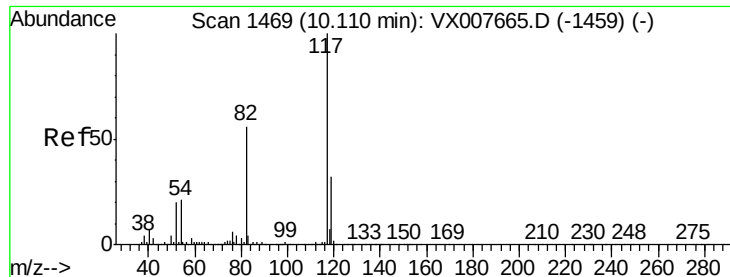
100000

50000

0

Time-->

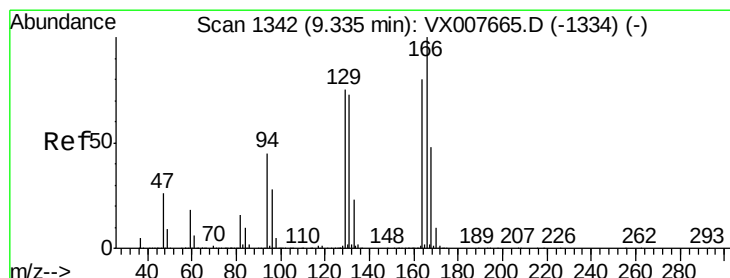
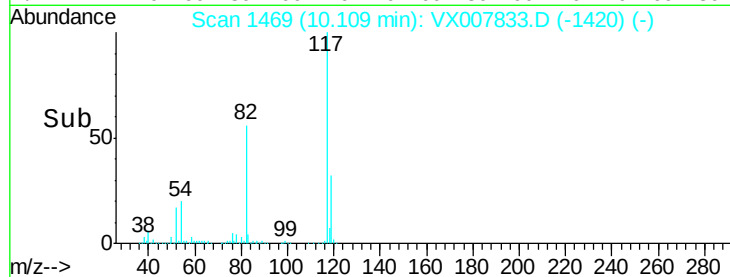
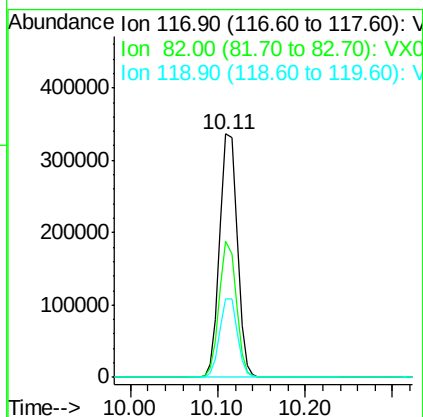
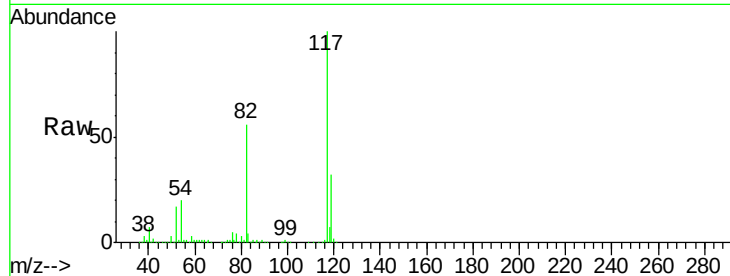




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

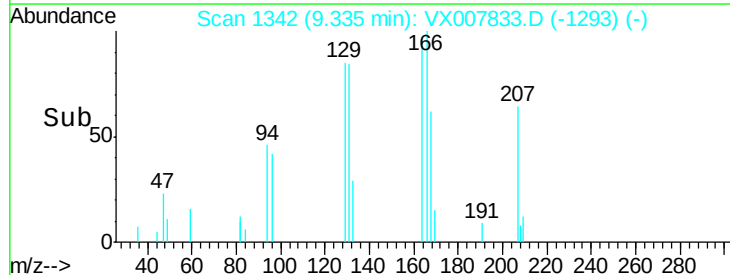
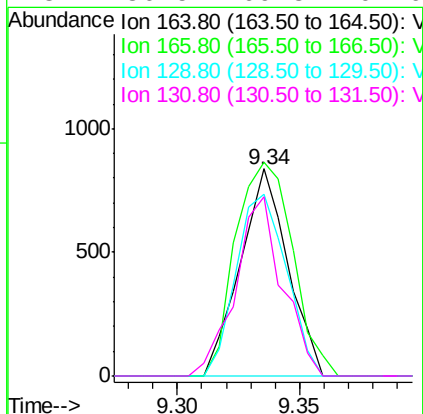
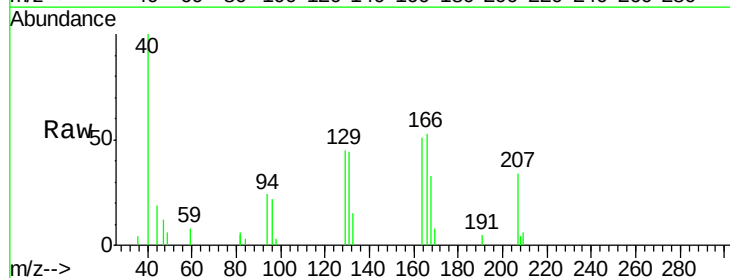
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-UV(PRE)

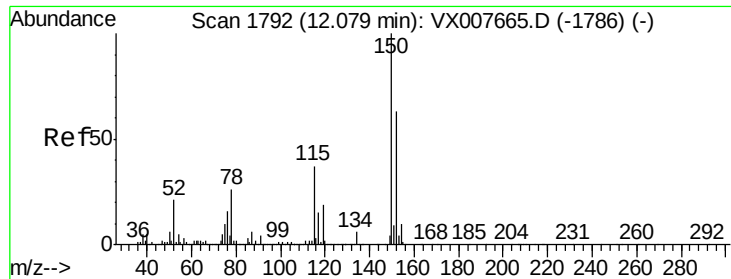
Tot Ion:117 Resp: 469095
Ion Ratio Lower Upper
117 100
82 55.8 42.1 63.1
119 32.1 26.5 39.7



#64
Tetrachloroethene
Concen: 0.298 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007833.D
Acq: 05 Mar 2019 13:28

Tgt Ion:164 Resp: 1136
Ion Ratio Lower Upper
164 100
166 103.2 101.0 151.4
129 88.1 70.5 105.7
131 86.5 69.8 104.6

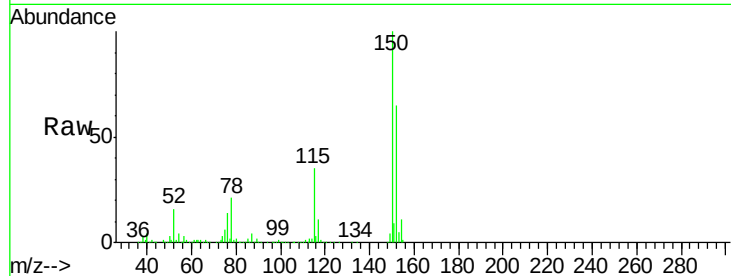




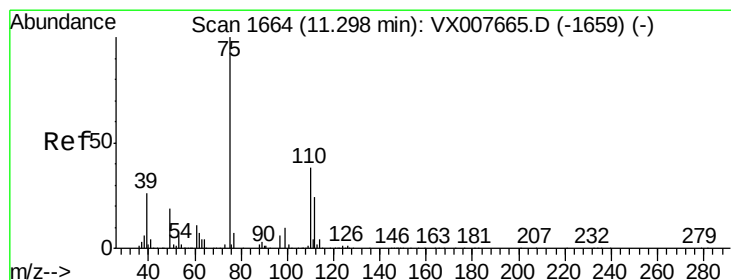
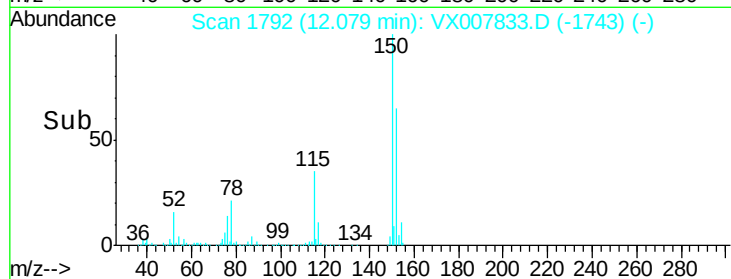
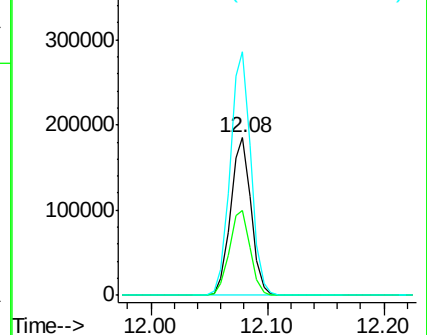
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX007833.D
 Acq: 05 Mar 2019 13:28

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-UV(PRE)

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.0	114.0
150	155.3	0.0	346.4

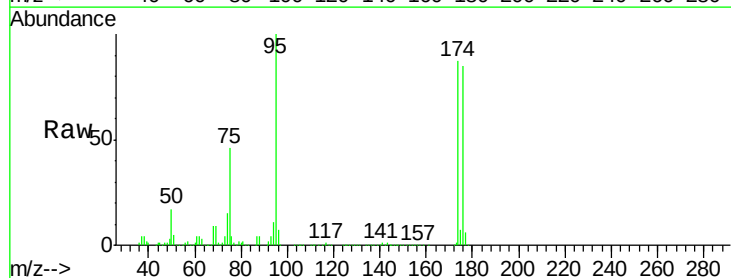


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

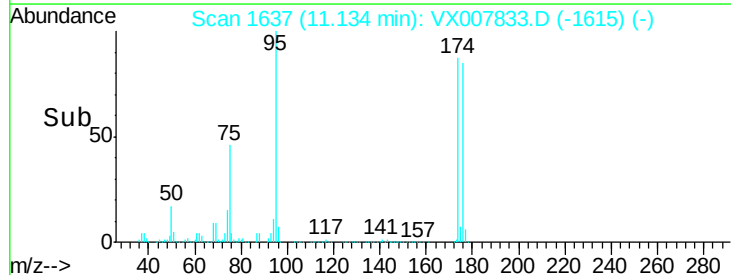
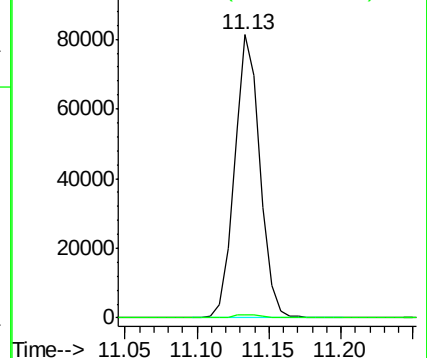


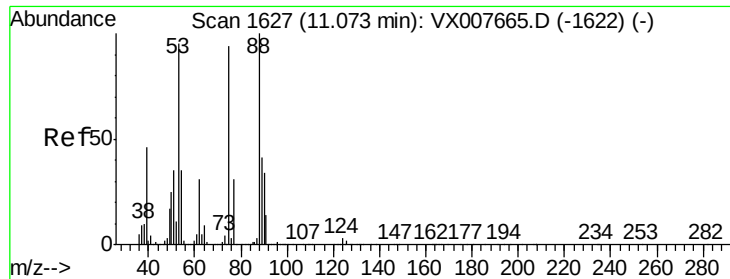
#76
 1,2,3-Trichloropropane
 Concen: 20.992 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007833.D
 Acq: 05 Mar 2019 13:28

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	23.0	69.0#



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: 55.877 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007833.D

Acq: 05 Mar 2019 13:28

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-UV(PRE)

Tot Ion: 75 Resp: 100539

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 41.4 62.0#

