

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005349.D
 Acq On : 15 Oct 2018 17:41
 Operator : JC/MD
 Sample : PB113825ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 03:38:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	261159	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	379982	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	351411	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166154	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	154348	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
35) Dibromofluoromethane	5.50	113	122480	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	8.72	98	462253	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
62) 4-Bromofluorobenzene	11.14	95	149111	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	

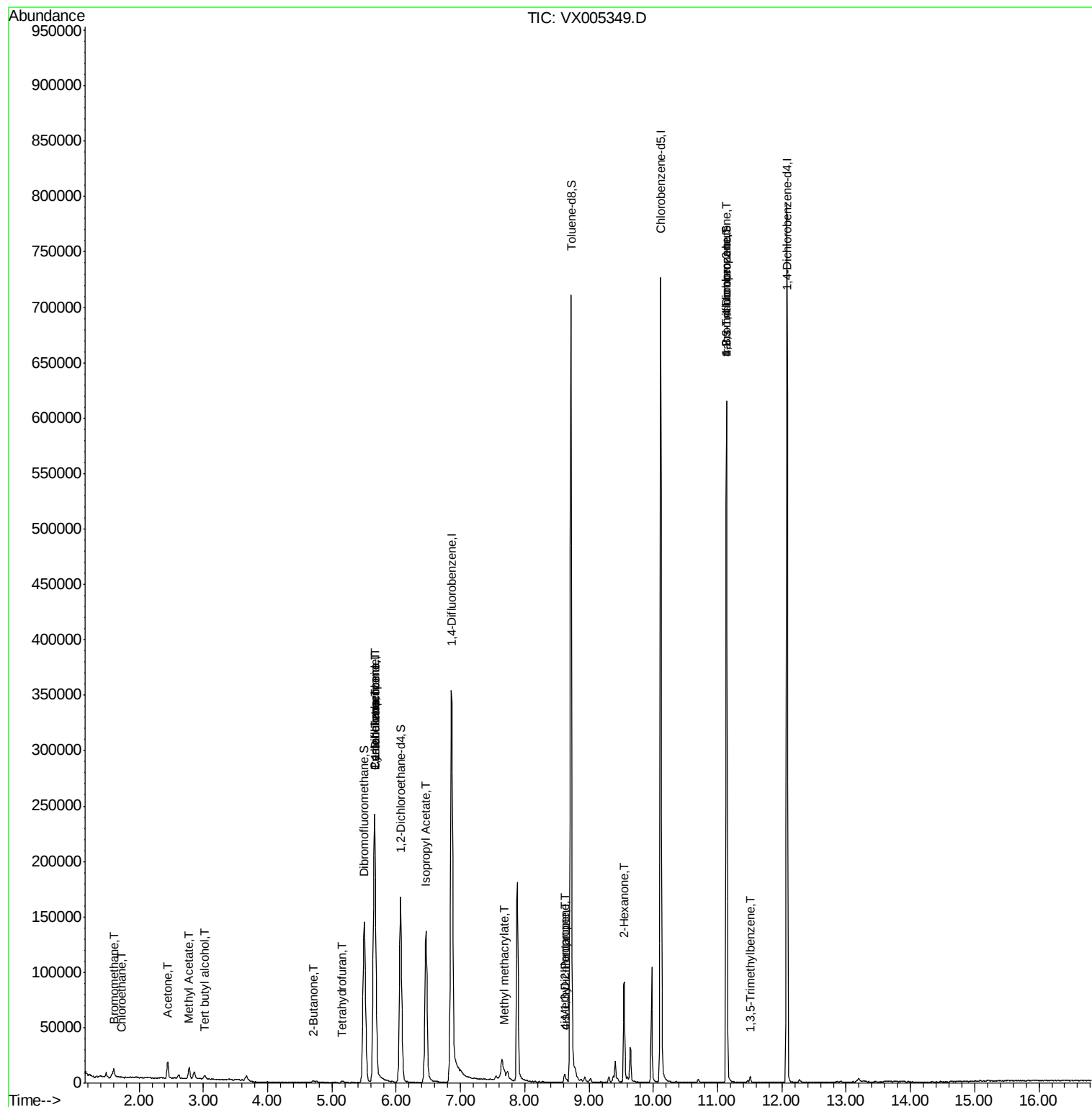
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	243	0.726	ug/l #	3
6) Chloroethane	1.72	64	768	0.726	ug/l #	44
11) Tert butyl alcohol	3.02	59	1825	2.232	ug/l #	79
13) Acrolein	2.29	56	139	Below Cal	#	43
16) Acetone	2.45	43	16613	9.913	ug/l	95
18) Methyl Acetate	2.78	43	12554	2.633	ug/l	98
20) Methylene Chloride	2.86	84	2850	Below Cal		93
25) 2-Butanone	4.71	43	2959	1.207	ug/l #	78
29) Tetrahydrofuran	5.16	42	1231	0.787	ug/l #	74
31) Cyclohexane	5.67	56	4556	1.143	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16775	4.558	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22435	6.067	ug/l #	16
43) Isopropyl Acetate	6.46	43	181227	28.746	ug/l	96
44) Trichloroethene	7.22	130	271	Below Cal		56
48) Methyl methacrylate	7.68	41	8491	2.597	ug/l #	18
51) 4-Methyl-2-Pentanone	8.62	43	2412	0.553	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1134	0.293	ug/l #	68
59) 2-Hexanone	9.55	43	10687	3.043	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	74140	23.004	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	2233	0.264	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.14	75	74140	69.897	ug/l #	10

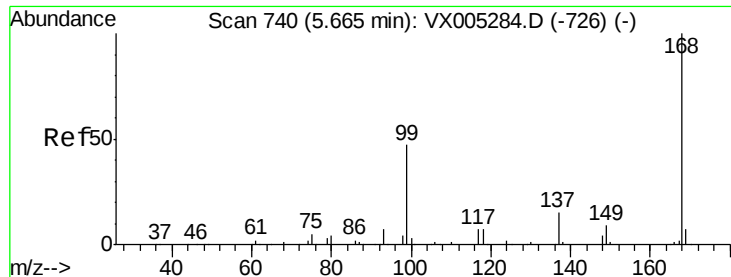
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 16 03:38:02 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
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: VX005349.D

Acq: 15 Oct 2018 17:41

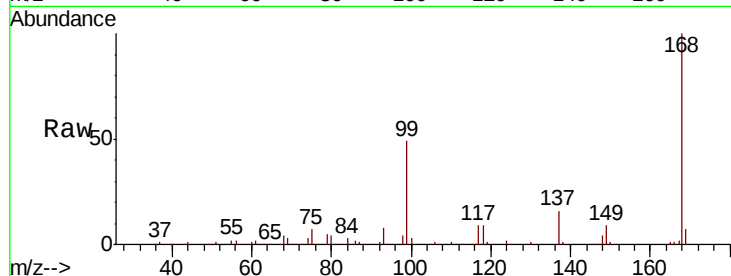
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 261159

Ion Ratio Lower Upper

168 100

99 49.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

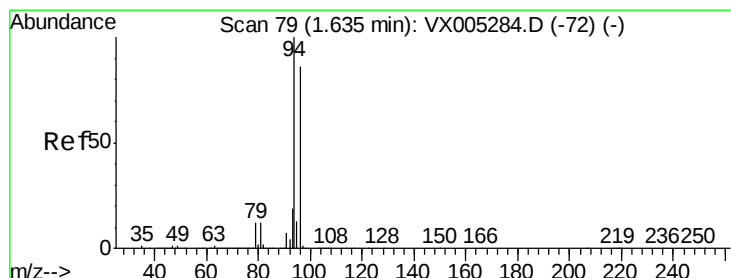
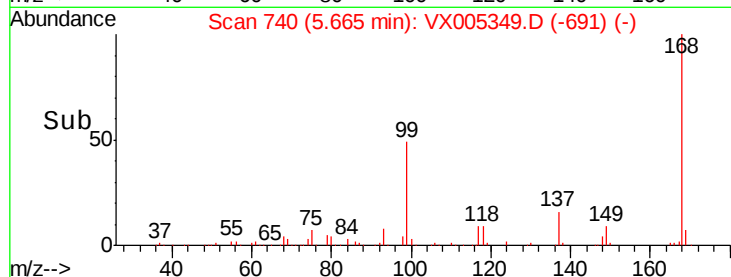
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.726 ug/l

RT: 1.61 min Scan# 75

Delta R.T. -0.02 min

Lab File: VX005349.D

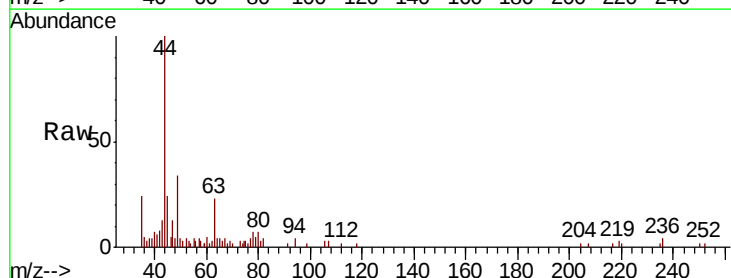
Acq: 15 Oct 2018 17:41

Tgt Ion: 94 Resp: 243

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.61

150

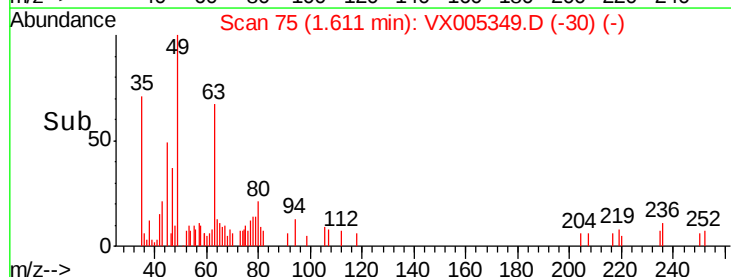
100

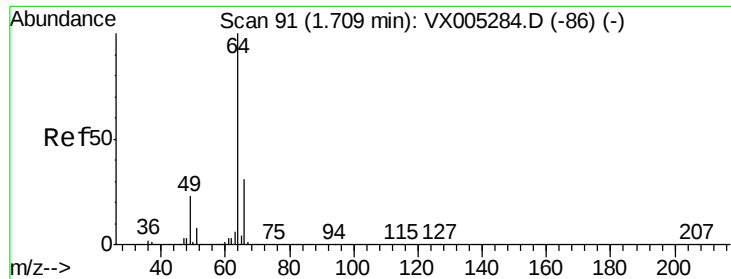
50

0

Time-->

1.56 1.58 1.60 1.62





#6

Chloroethane

Concen: 0.726 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

Instrument :

MSVOA_X

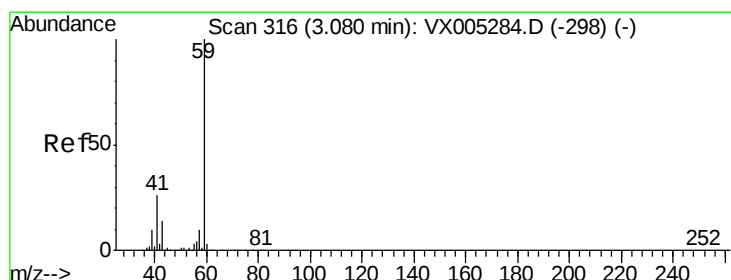
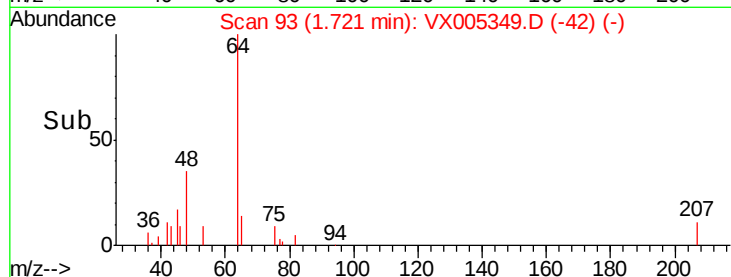
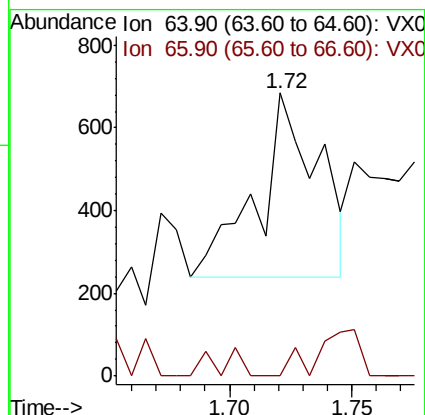
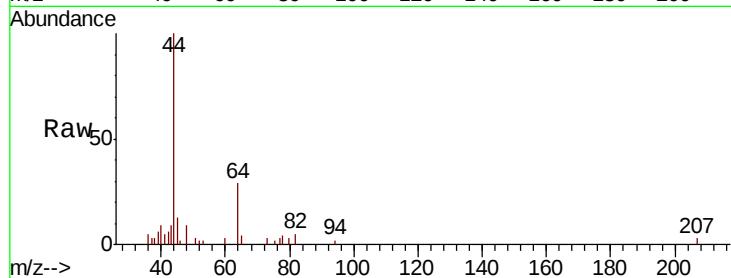
ClientSampled :

Tot Ion: 64 Resp: 768

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#11

Tert butyl alcohol

Concen: 2.232 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005349.D

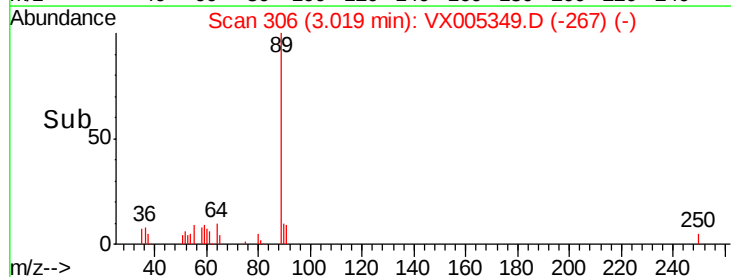
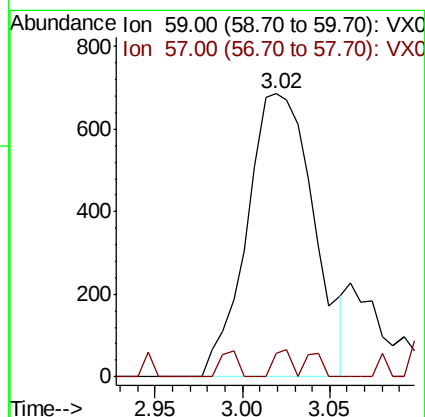
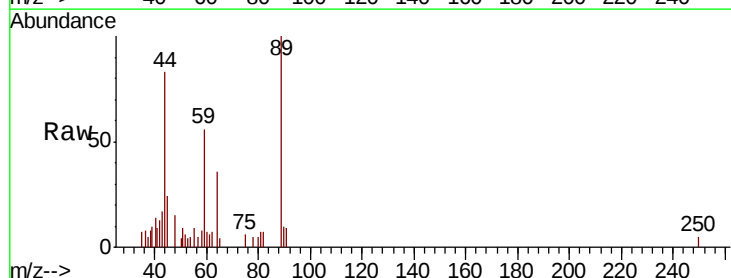
Acq: 15 Oct 2018 17:41

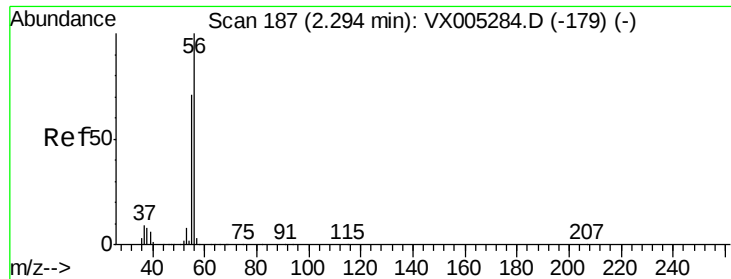
Tgt Ion: 59 Resp: 1825

Ion Ratio Lower Upper

59 100

57 2.5 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

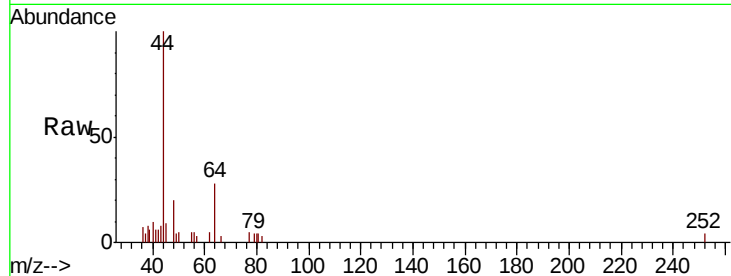
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 139

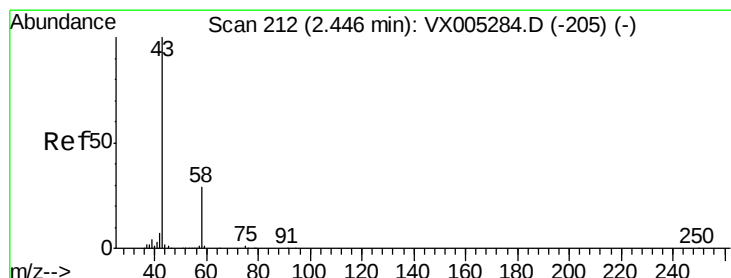
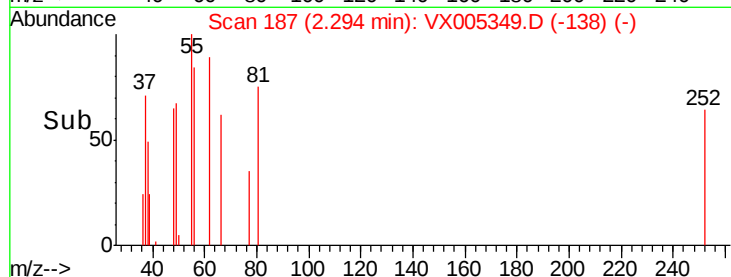
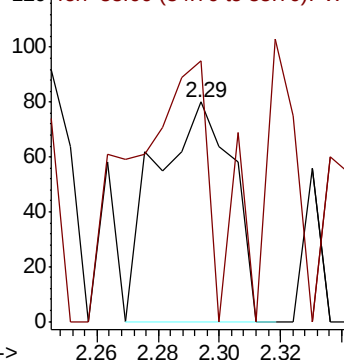
Ion Ratio Lower Upper

56 100

55 114.4 54.7 82.1#



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



#16

Acetone

Concen: 9.913 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005349.D

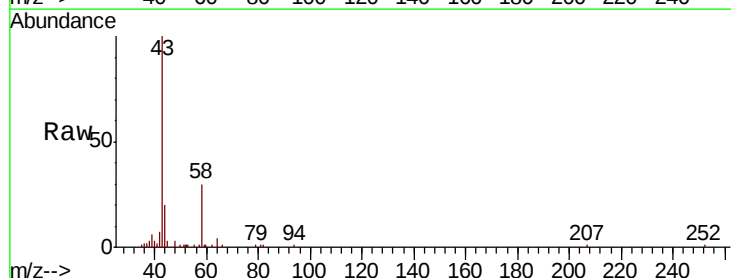
Acq: 15 Oct 2018 17:41

Tgt Ion: 43 Resp: 16613

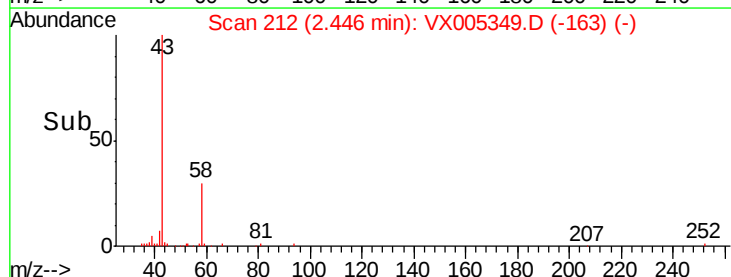
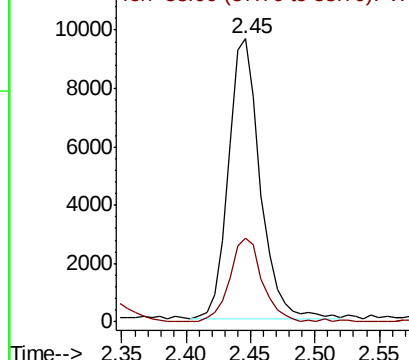
Ion Ratio Lower Upper

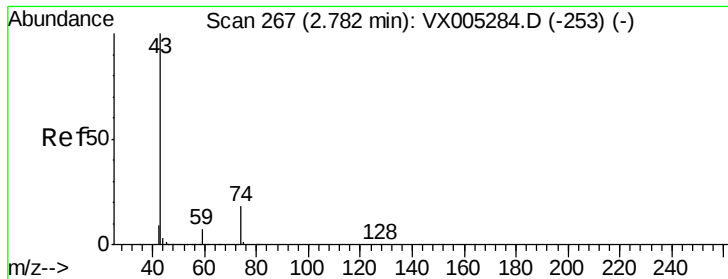
43 100

58 30.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

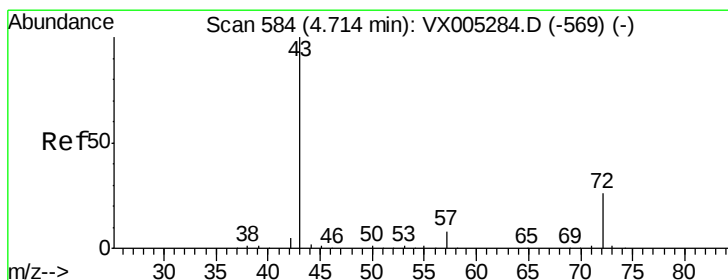
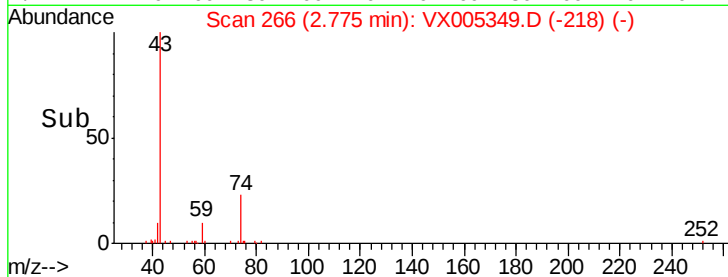
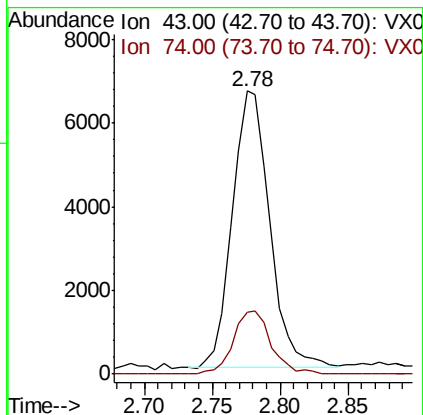
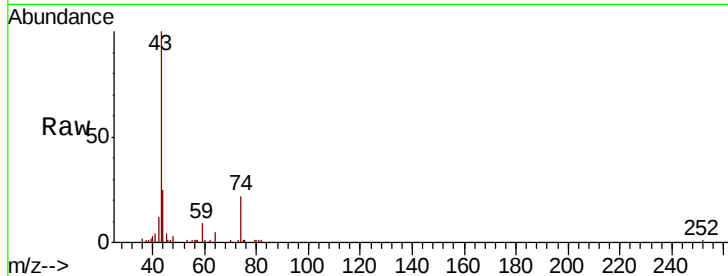




#18
Methvl Acetate
Concen: 2.633 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

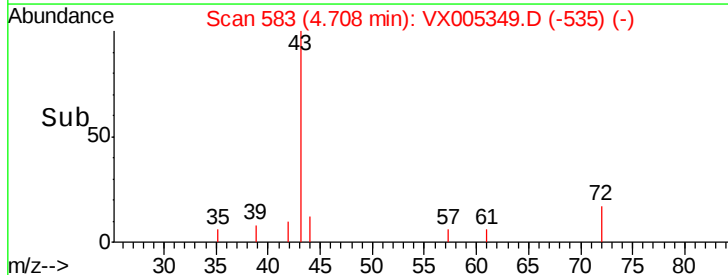
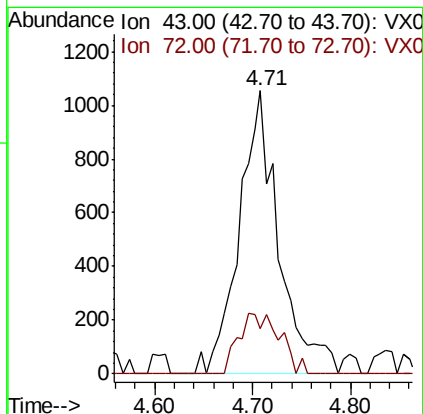
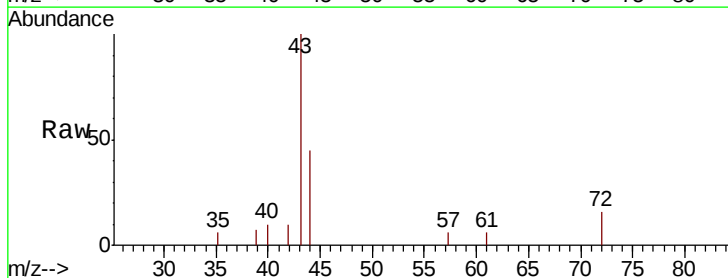
Instrument :
MSVOA_X
ClientSampleId :

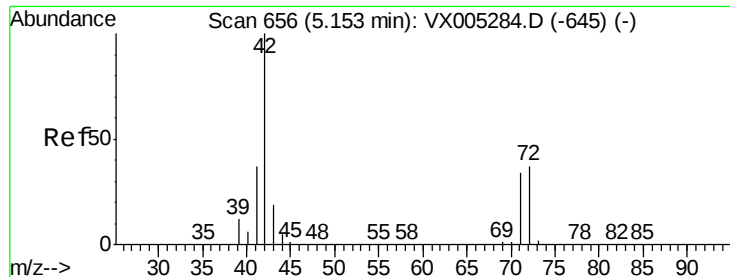
Tot Ion: 43 Resp: 12554
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.2



#25
2-Butanone
Concen: 1.207 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Tgt Ion: 43 Resp: 2959
Ion Ratio Lower Upper
43 100
72 15.8 22.0 33.0#

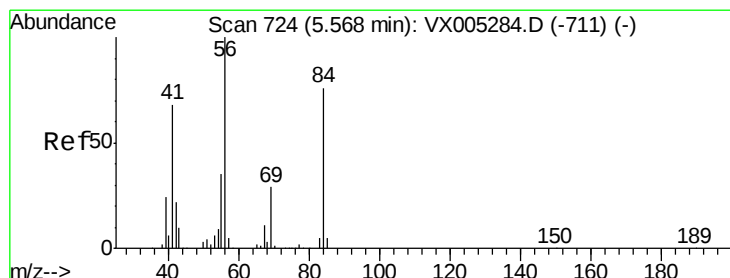
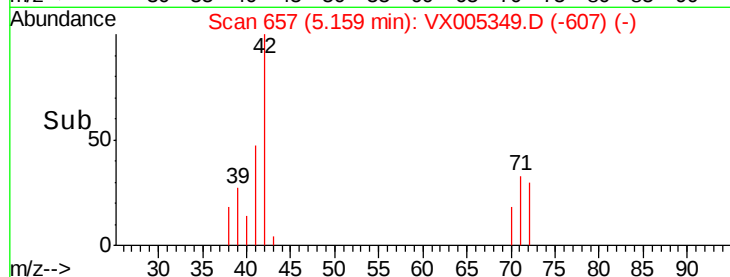
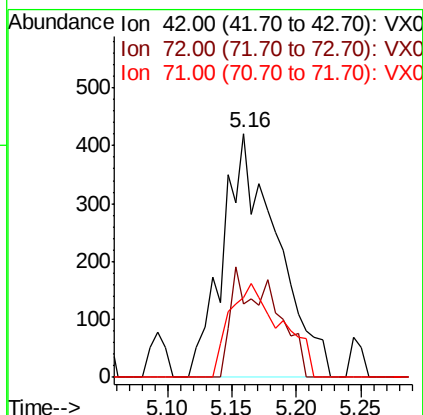
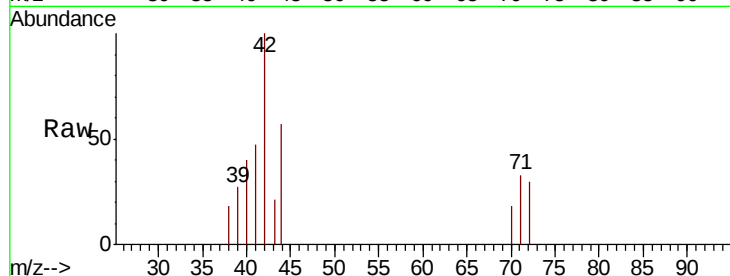




#29
Tetrahydrofuran
Concen: 0.787 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

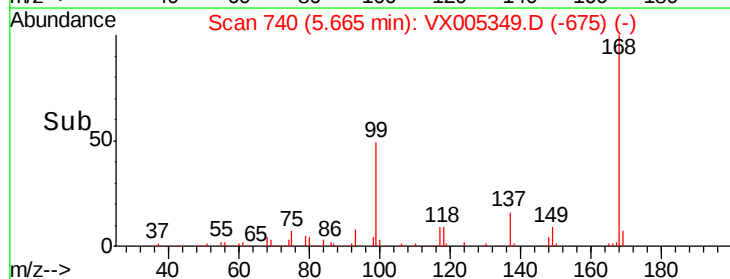
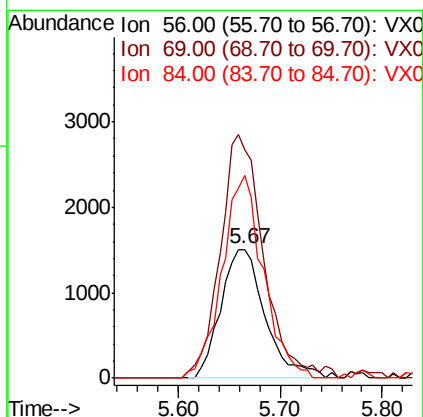
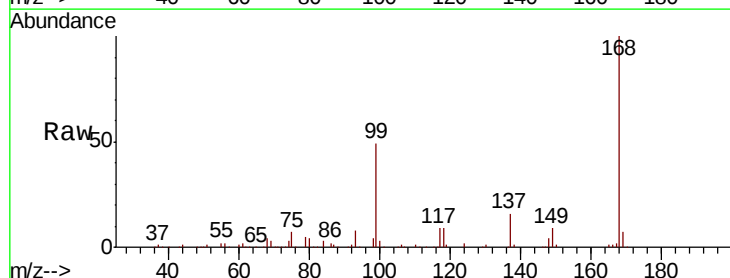
Instrument :
MSVOA_X
ClientSampled :

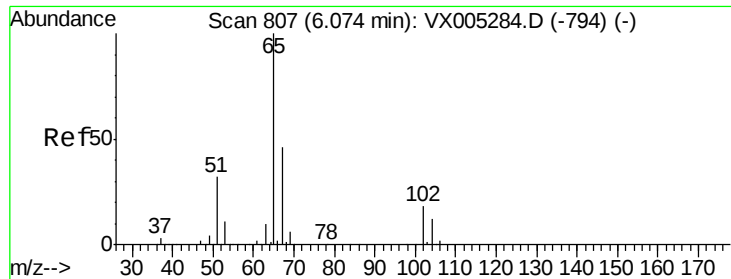
Tot Ion	Ratio	Lower	Upper
42	100		
72	19.6	37.4	56.0#
71	37.0	34.5	51.7



#31
Cyclohexane
Concen: 1.143 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Tgt Ion	Ratio	Lower	Upper
56	100		
69	177.3	25.4	38.2#
84	157.1	71.4	107.2#

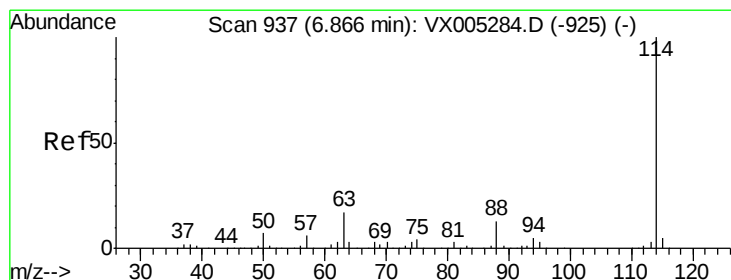
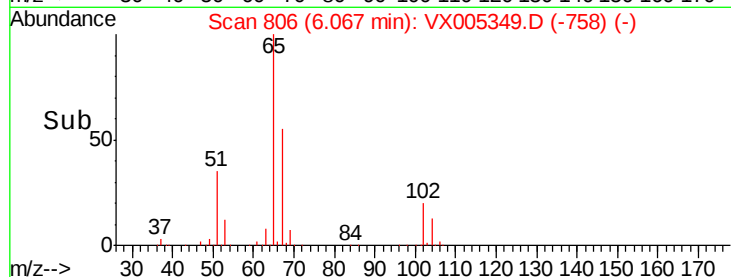
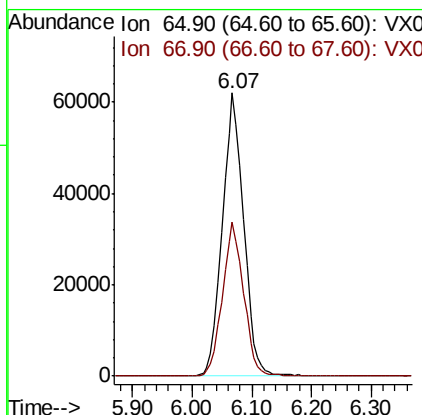
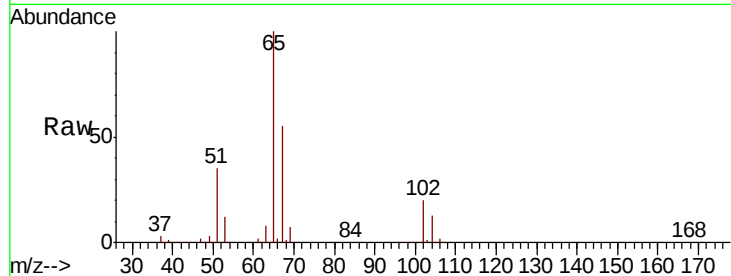




#33
 1,2-Dichloroethane-d4
 Concen: 53.252 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005349.D
 Acq: 15 Oct 2018 17:41

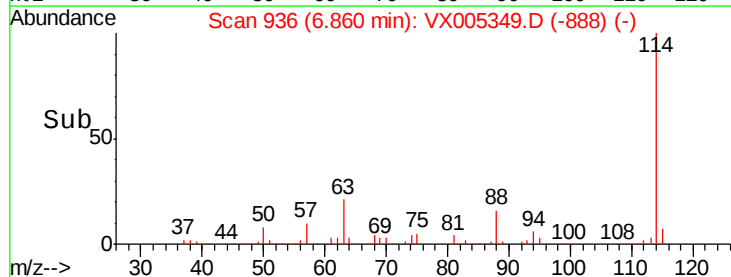
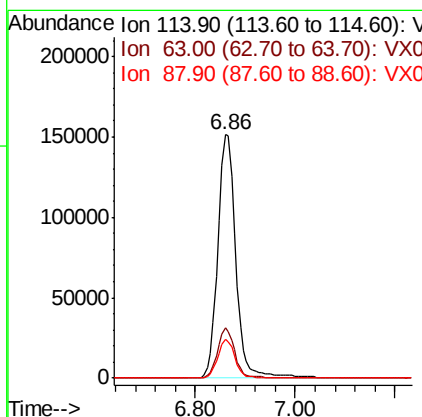
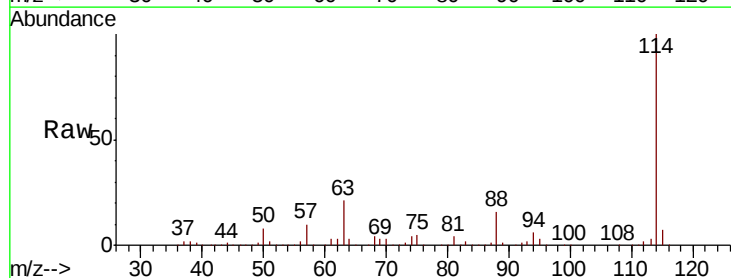
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 MSVOA_X
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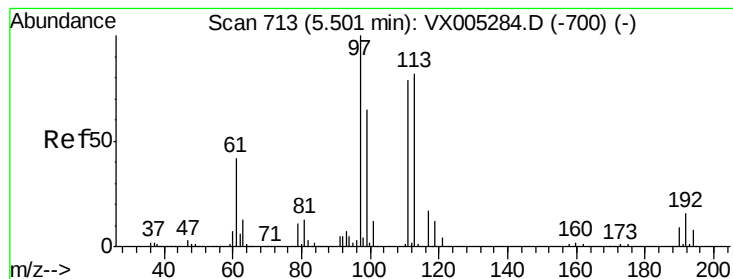
Tot Ion: 65 Resp: 154348
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005349.D
 Acq: 15 Oct 2018 17:41

Tgt Ion: 114 Resp: 379982
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 15.7 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.667 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

Instrument :
MSVOA_X
ClientSampled :

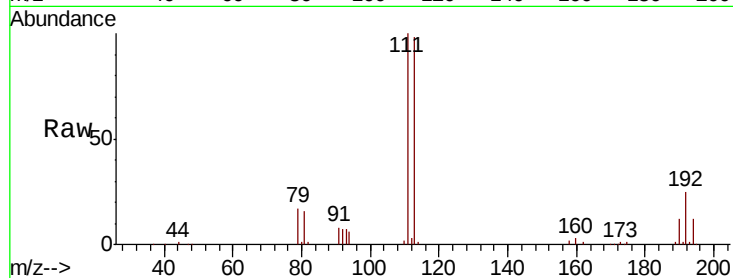
Tot Ion:113 Resp: 122480

Ion Ratio Lower Upper

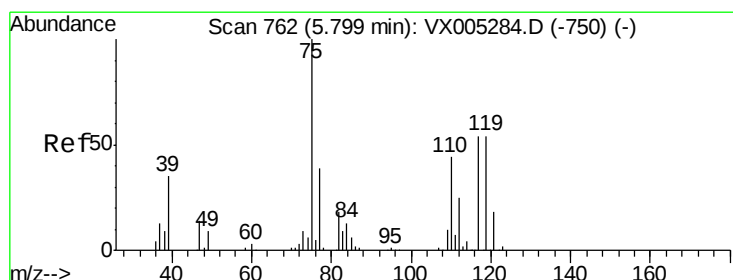
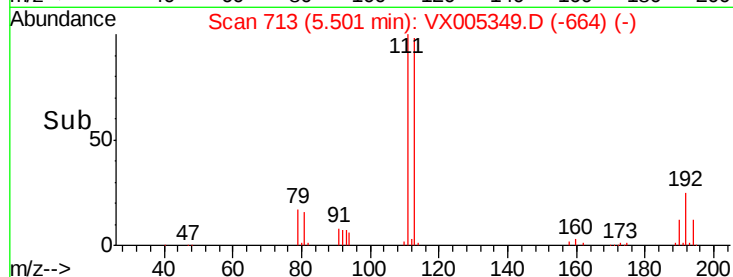
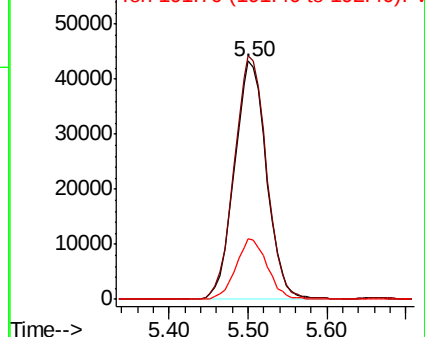
113 100

111 102.8 82.4 123.6

192 24.8 19.4 29.2



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: 4.558 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

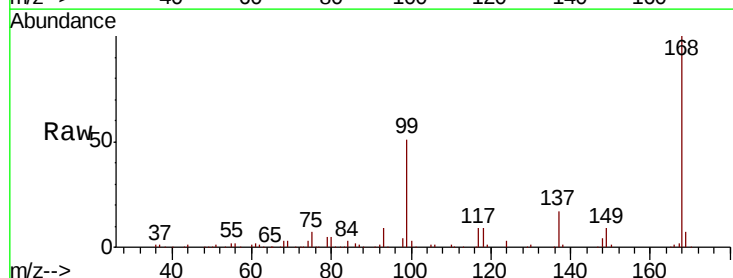
Tgt Ion: 75 Resp: 16775

Ion Ratio Lower Upper

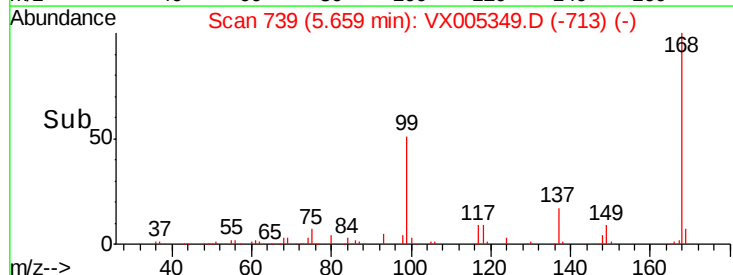
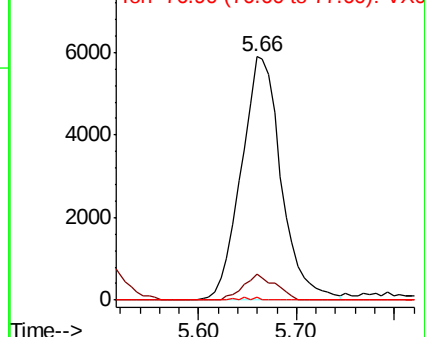
75 100

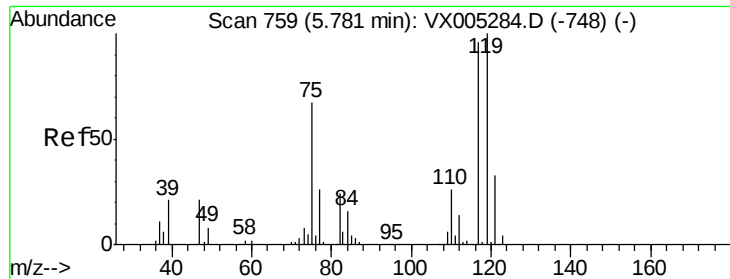
110 8.5 18.0 54.0#

77 0.3 24.6 36.8#



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

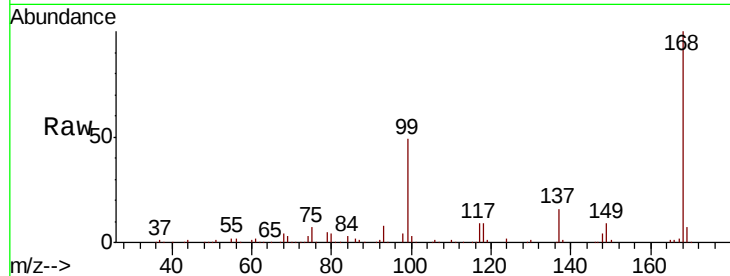




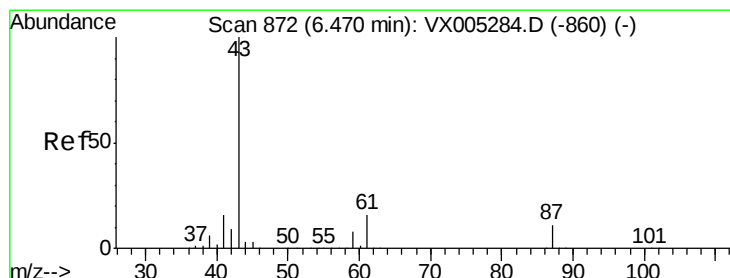
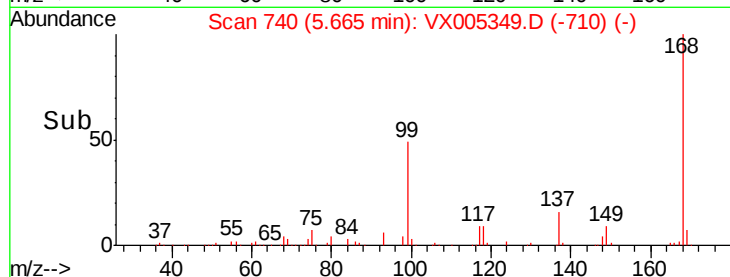
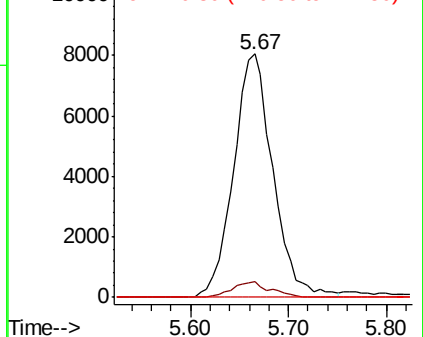
#38
Carbon Tetrachloride
Concen: 6.067 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 22435
Ion Ratio Lower Upper
117 100
119 6.7 78.8 118.2#
121 0.0 24.9 37.3#

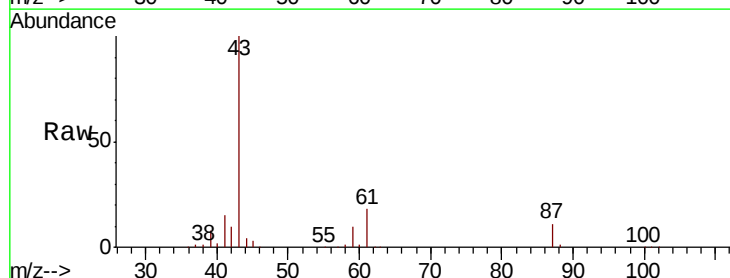


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

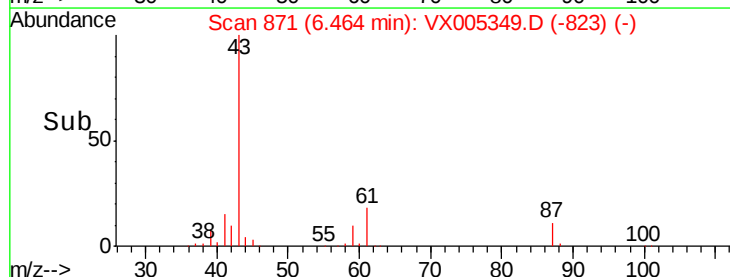
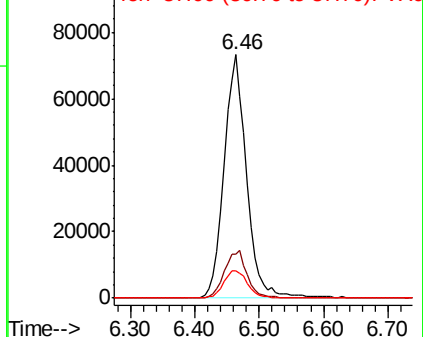


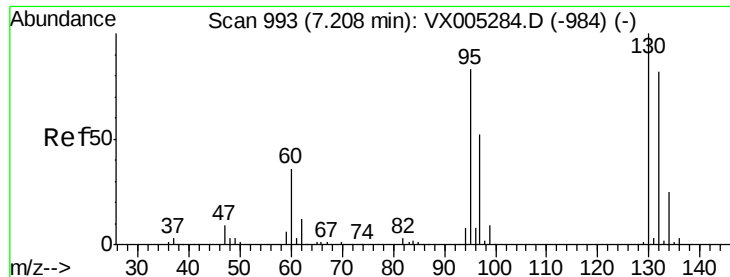
#43
Isopropyl Acetate
Concen: 28.746 ug/l
RT: 6.46 min Scan# 871
Delta R.T. -0.01 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Tgt Ion: 43 Resp: 181227
Ion Ratio Lower Upper
43 100
61 19.6 17.0 25.4
87 12.0 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

Instrument :

MSVOA_X

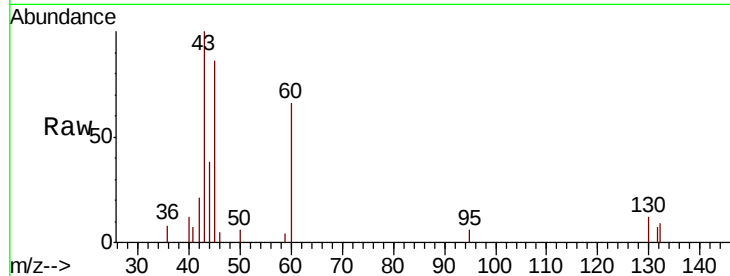
ClientSampleId :

Tot Ion:130 Resp: 271

Ion Ratio Lower Upper

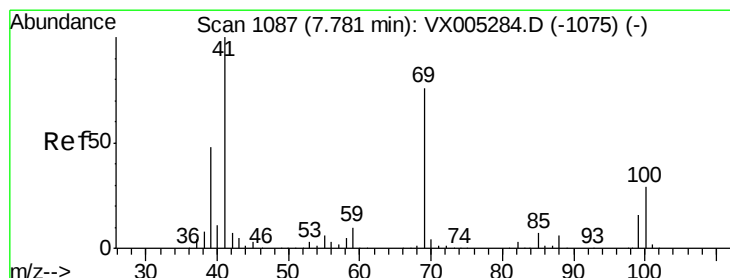
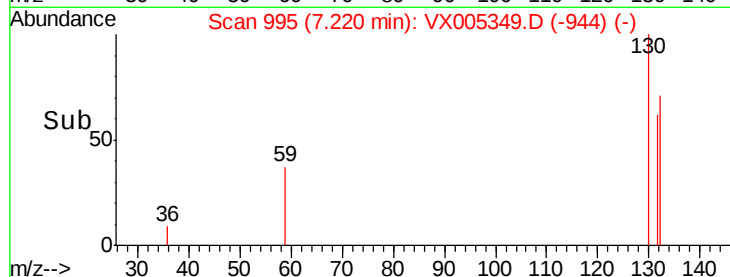
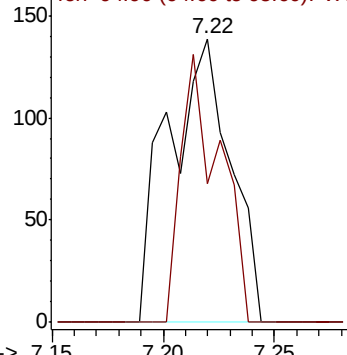
130 100

95 48.9 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 2.597 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

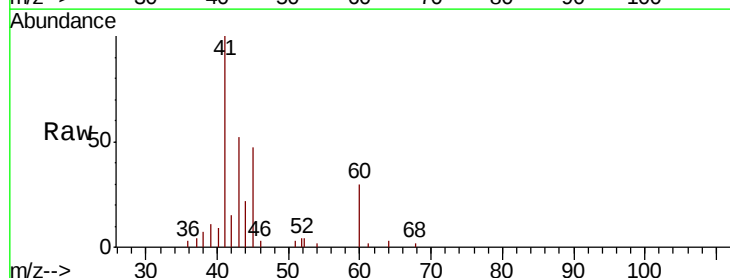
Tgt Ion: 41 Resp: 8491

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

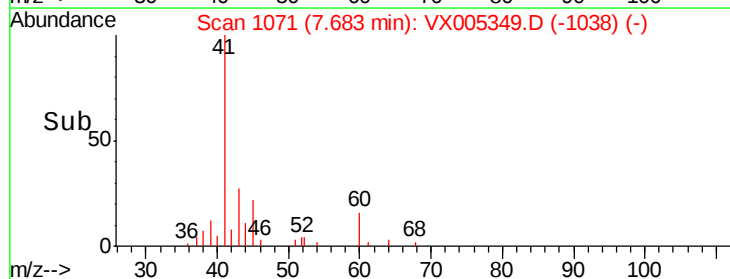
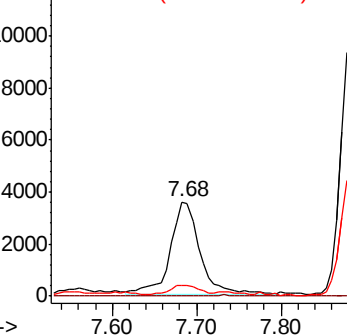
39 9.8 42.7 64.1#

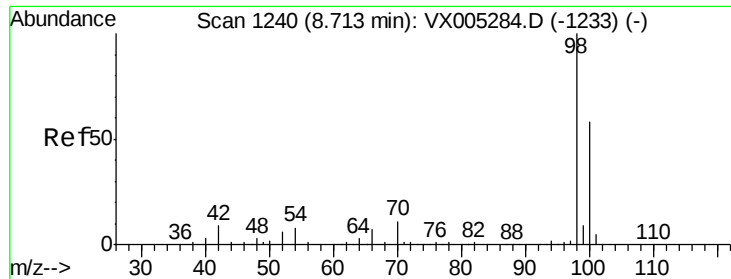


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

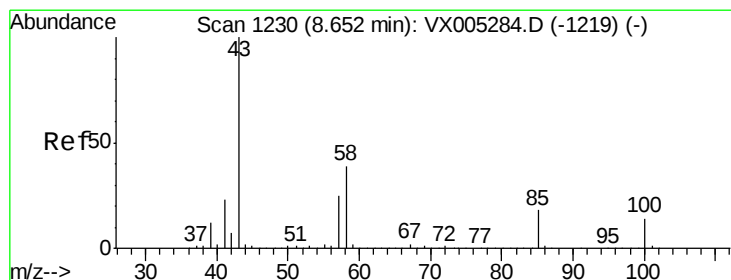
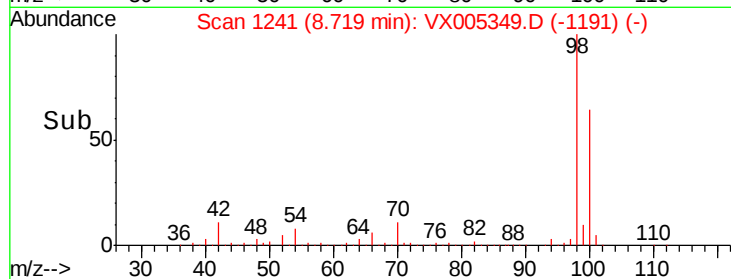
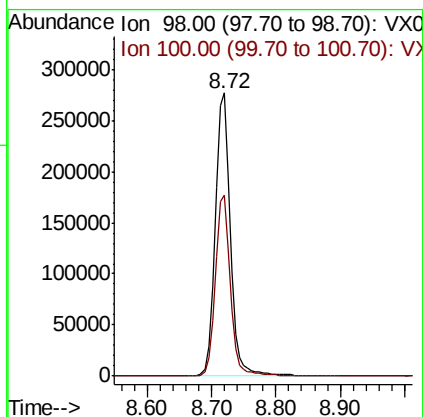
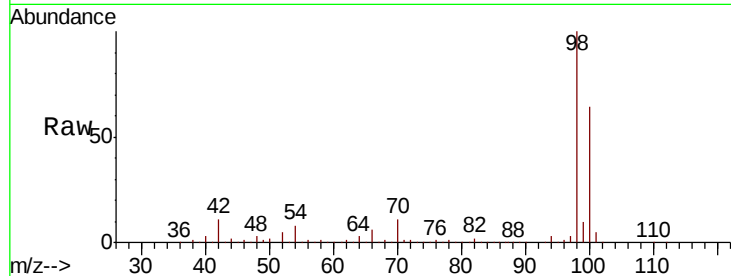




#50
Toluene-d8
Concen: 53.501 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

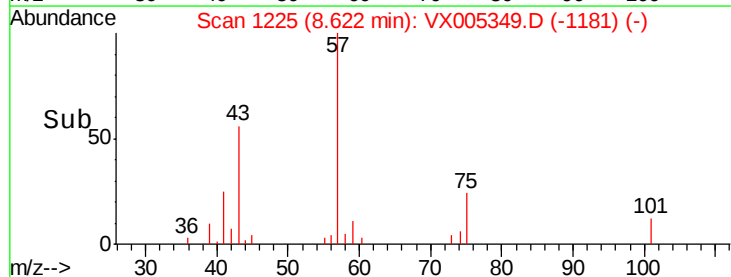
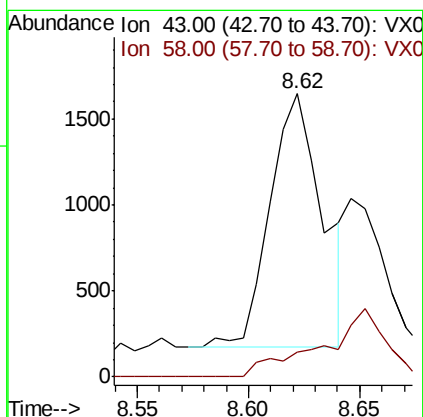
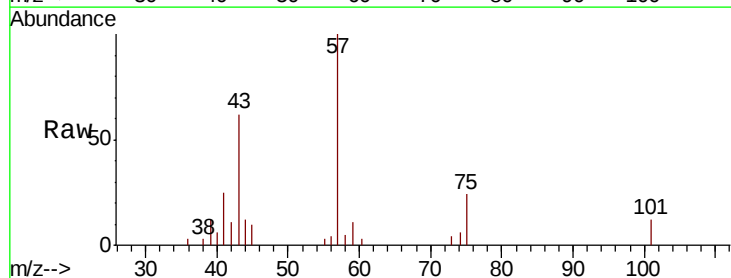
Instrument :
MSVOA_X
ClientSampleId :

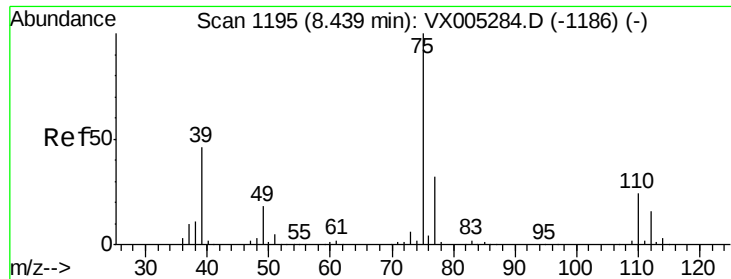
Tot Ion: 98 Resp: 462253
Ion Ratio Lower Upper
98 100
100 63.5 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.553 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Tgt Ion: 43 Resp: 2412
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

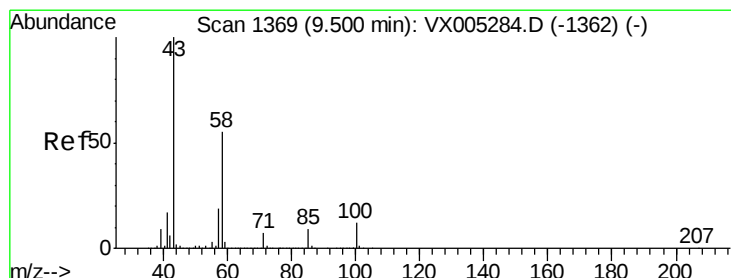
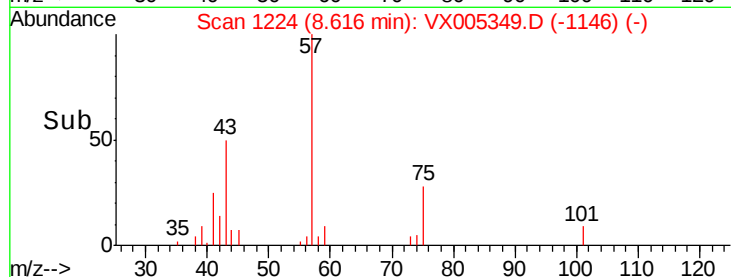
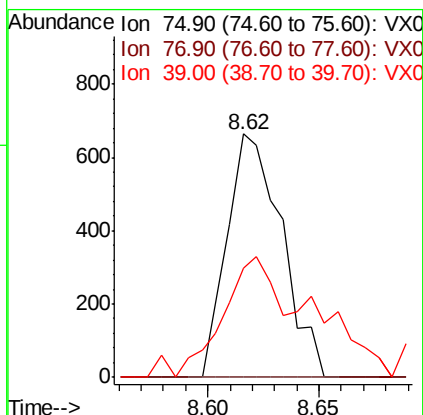
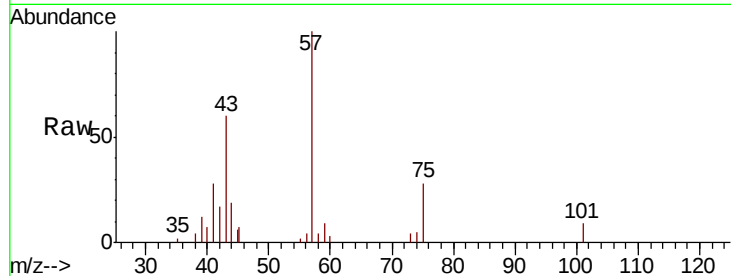




#54
 cis-1,3-Dichloropropene
 Concen: 0.293 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005349.D
 Acq: 15 Oct 2018 17:41

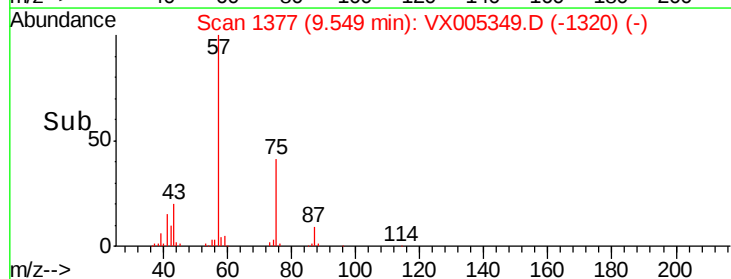
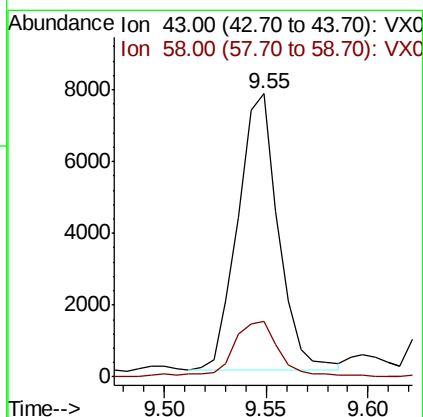
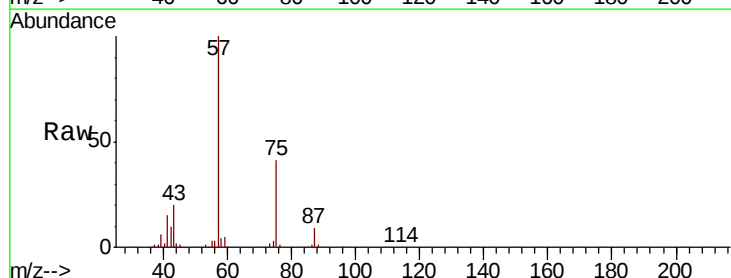
Instrument :
 MSVOA_X
 ClientSampleId :

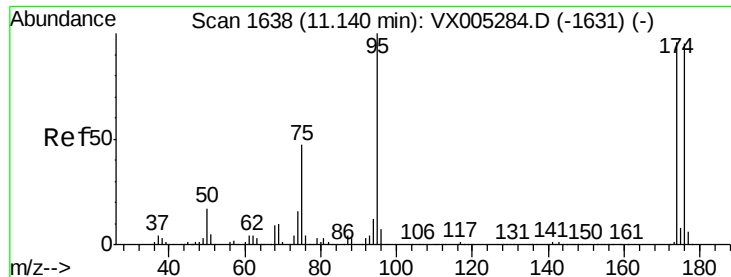
Tot Ion: 75 Resp: 1134
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 36.4 36.4 54.6



#59
 2-Hexanone
 Concen: 3.043 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX005349.D
 Acq: 15 Oct 2018 17:41

Tgt Ion: 43 Resp: 10687
 Ion Ratio Lower Upper
 43 100
 58 22.9 29.0 87.0#





#62

4-Bromofluorobenzene

Concen: 45.940 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

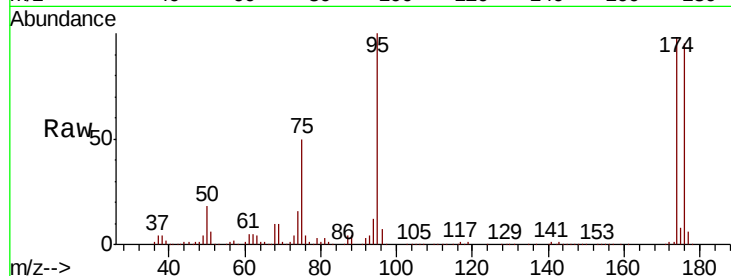
Tot Ion: 95 Resp: 149111

Ion Ratio Lower Upper

95 100

174 97.1 0.0 185.2

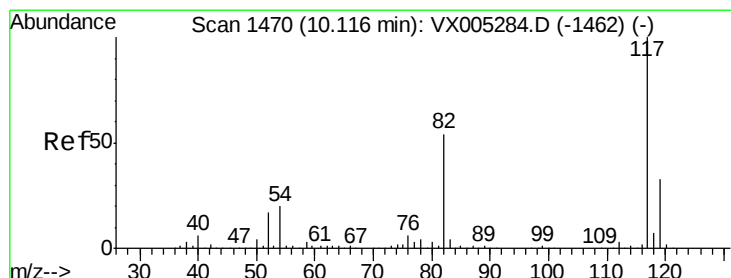
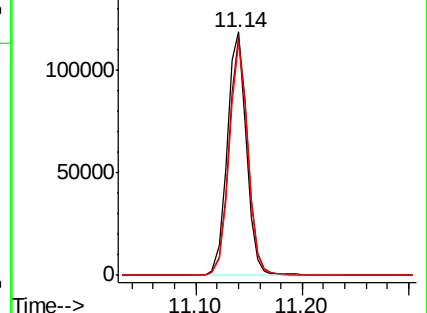
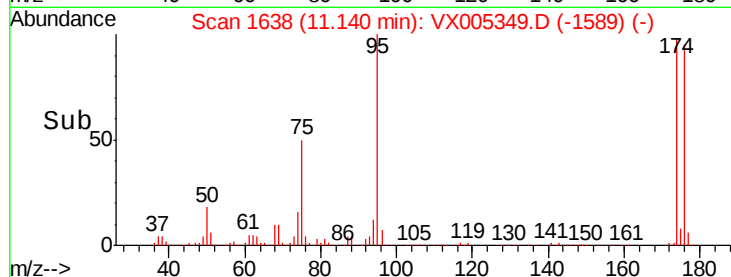
176 93.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005349.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005349.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005349.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005349.D

Acq: 15 Oct 2018 17:41

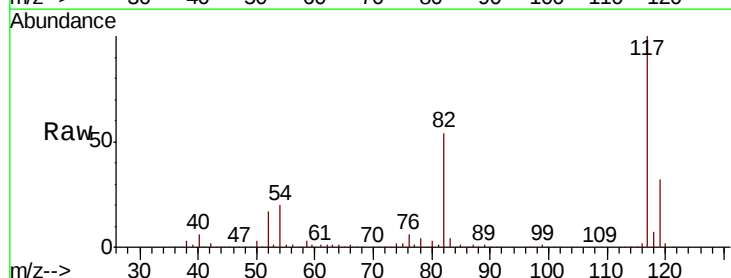
Tgt Ion: 117 Resp: 351411

Ion Ratio Lower Upper

117 100

82 54.3 47.8 71.6

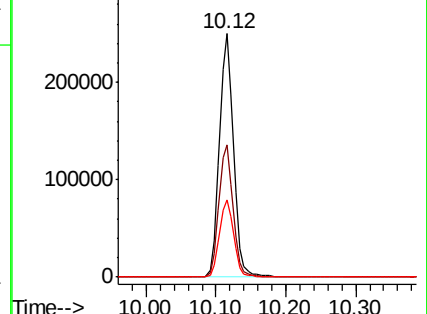
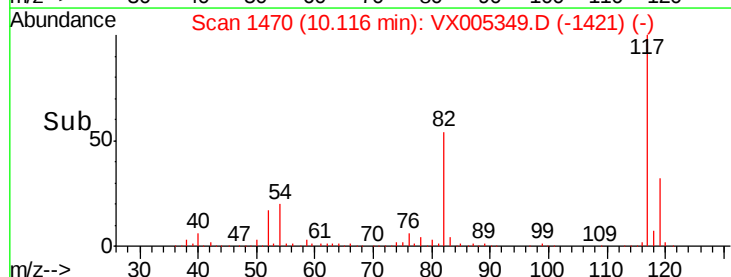
119 31.9 29.3 43.9

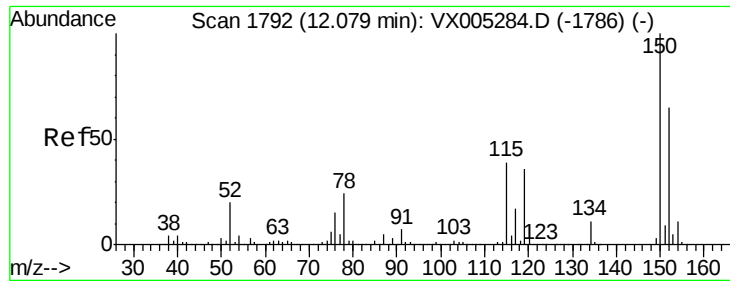


Abundance Ion 116.90 (116.60 to 117.60): VX005349.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005349.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005349.D (-1421) (-)



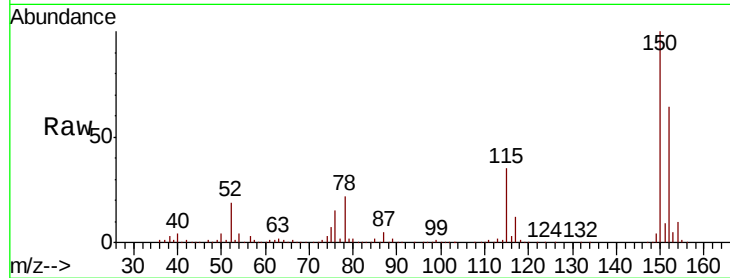


#72

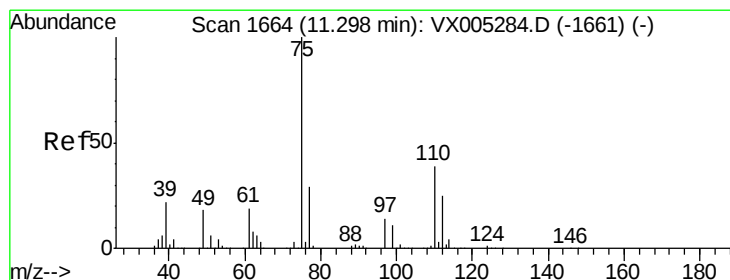
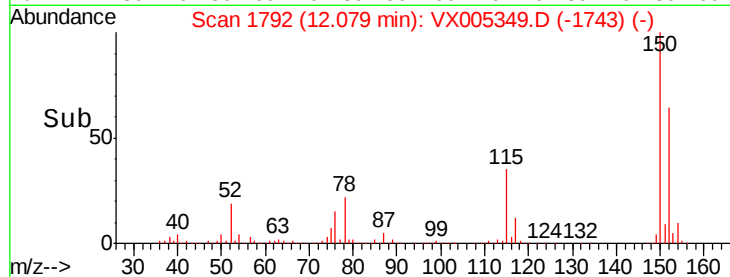
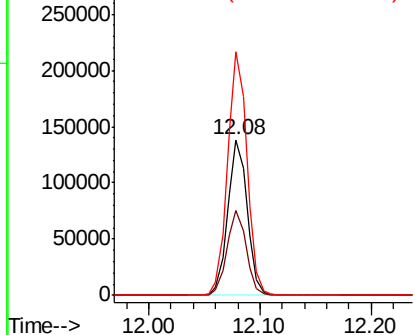
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 166154
Ion Ratio Lower Upper
152 100
115 54.8 39.0 117.0
150 157.3 0.0 351.0



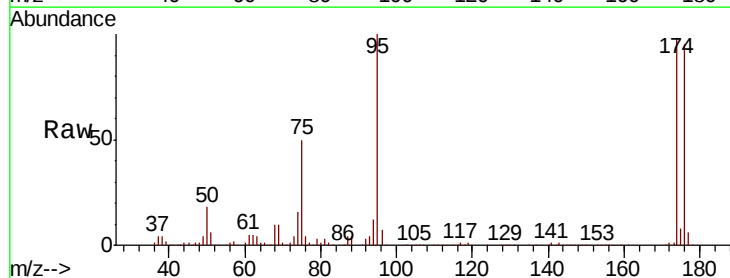
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



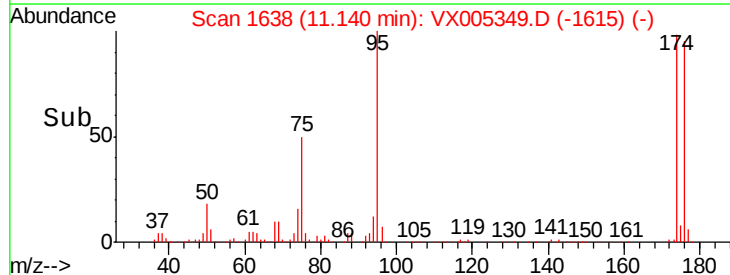
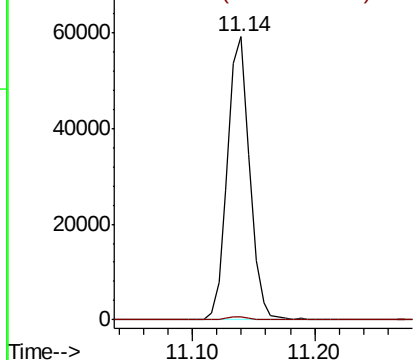
#76

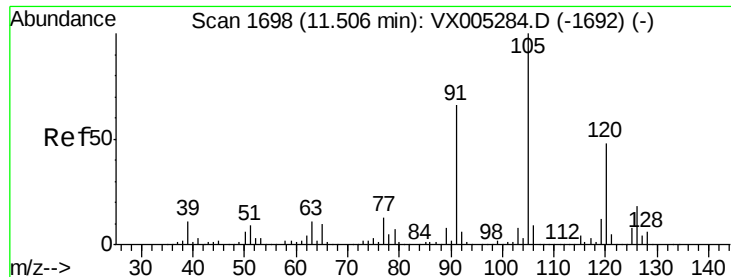
1,2,3-Trichloropropane
Concen: 23.004 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005349.D
Acq: 15 Oct 2018 17:41

Tgt Ion: 75 Resp: 74140
Ion Ratio Lower Upper
75 100
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

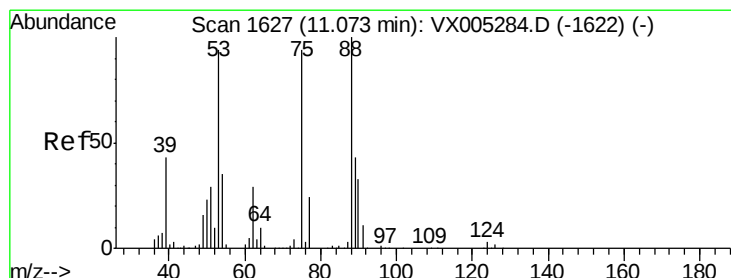
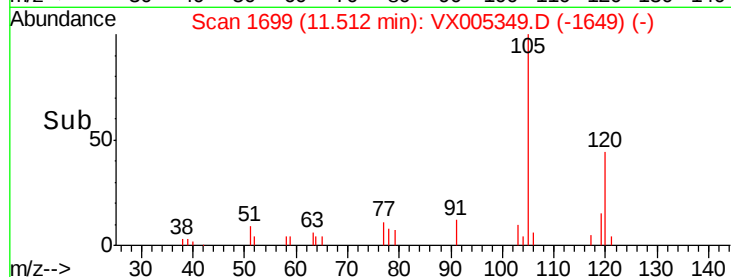
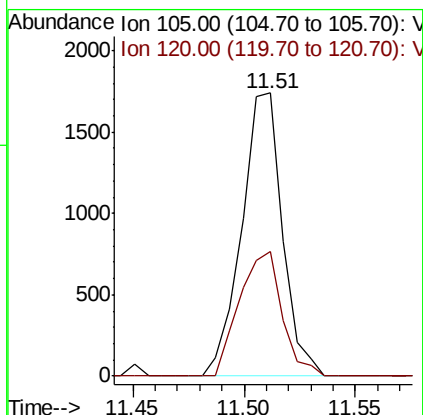
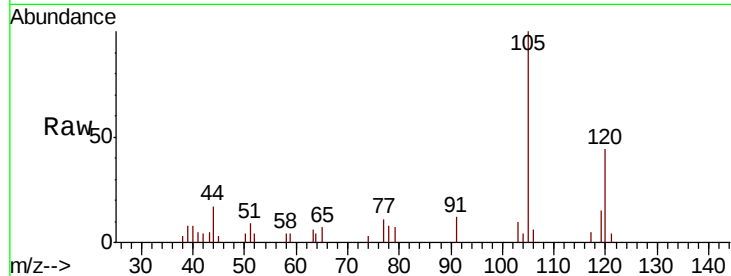




#80
 1,3,5-Trimethylbenzene
 Concen: 0.264 ug/l
 RT: 11.51 min Scan# 1699
 Delta R.T. 0.01 min
 Lab File: VX005349.D
 Acq: 15 Oct 2018 17:41

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 2233
 Ion Ratio Lower Upper
 105 100
 120 45.9 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.897 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005349.D
 Acq: 15 Oct 2018 17:41

Tgt Ion: 75 Resp: 74140
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#

