

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073119\
 Data File : VX011252.D
 Acq On : 31 Jul 2019 18:50
 Operator : JC/SP
 Sample : K4026-07DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0675DL

Quant Time: Aug 01 02:33:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	231688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	326763	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	290837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134781	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	112780	45.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.52%	
35) Dibromofluoromethane	5.49	113	95865	46.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.44%	
50) Toluene-d8	8.71	98	379359	48.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	
62) 4-Bromofluorobenzene	11.13	95	127441	44.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.14%	

Target Compounds

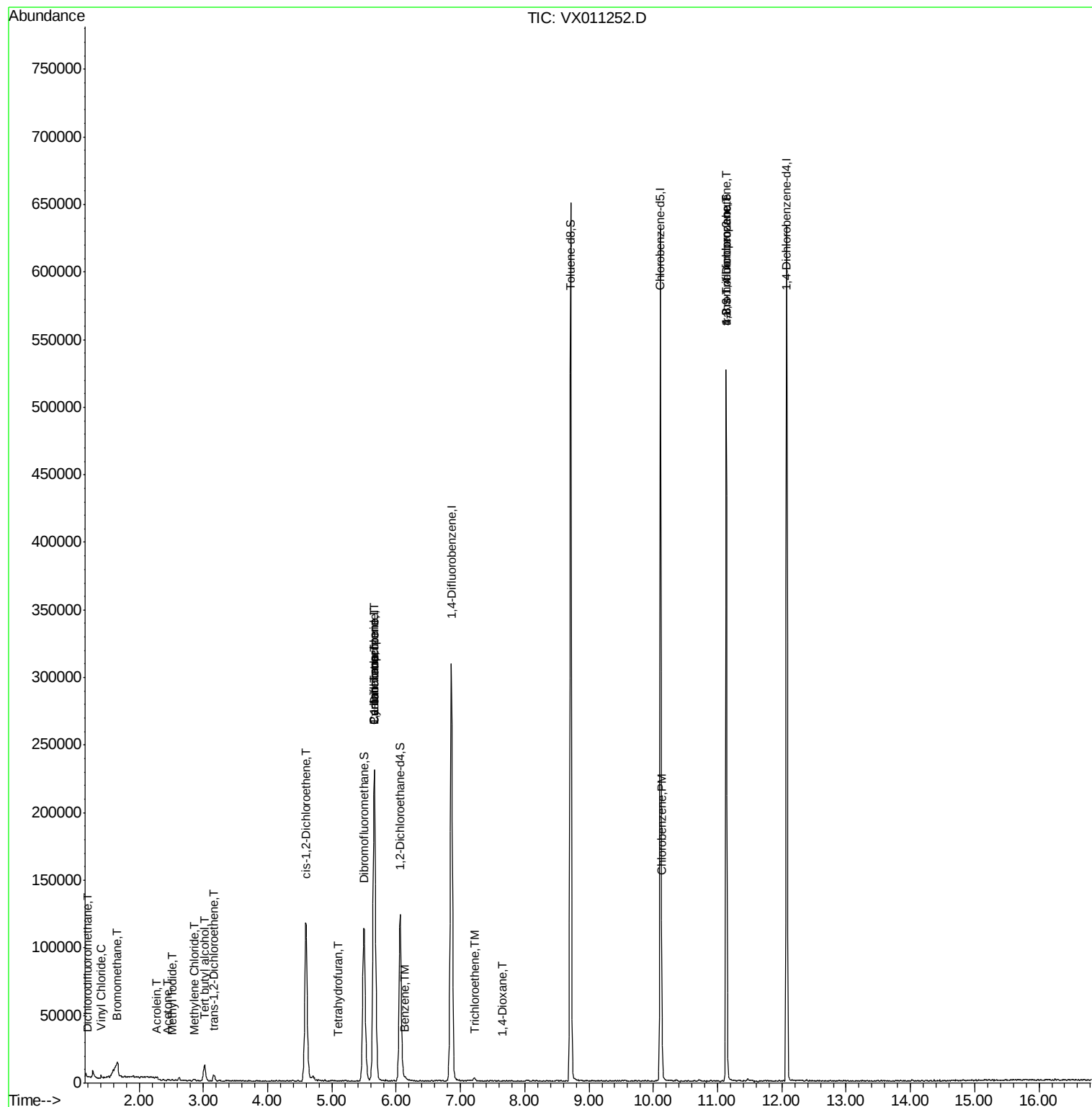
						Qvalue
2) Dichlorodifluoromethane	1.20	85	41	0.563	ug/l #	1
4) Vinyl Chloride	1.41	62	1490	0.686	ug/l #	84
5) Bromomethane	1.65	94	466	0.381	ug/l #	38
10) Methyl Iodide	2.53	142	643	0.233	ug/l	96
11) Tert butyl alcohol	3.02	59	7000	12.194	ug/l #	81
13) Acrolein	2.27	56	75	0.226	ug/l #	1
16) Acetone	2.45	43	1034	0.929	ug/l	95
20) Methylene Chloride	2.85	84	550	0.233	ug/l #	79
21) trans-1,2-Dichloroethene	3.16	96	1718	0.785	ug/l	92
27) cis-1,2-Dichloroethene	4.60	96	81938	32.333	ug/l	88
29) Tetrahydrofuran	5.10	42	258	0.255	ug/l #	29
31) Cyclohexane	5.65	56	4274	1.277	ug/l #	20
36) 1,1-Dichloropropene	5.66	75	15445	5.754	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21696	7.757	ug/l #	18
40) Benzene	6.13	78	2644	0.322	ug/l	91
44) Trichloroethene	7.22	130	878	0.361	ug/l	79
49) 1,4-Dioxane	7.66	88	48	0.779	ug/l #	57
65) Chlorobenzene	10.13	112	9539	1.597	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	63645	26.168	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	63645	65.000	ug/l #	11

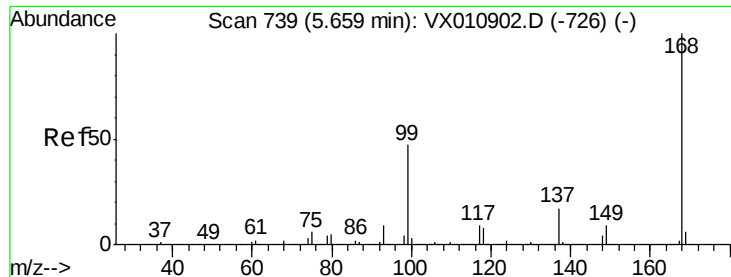
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampleId :

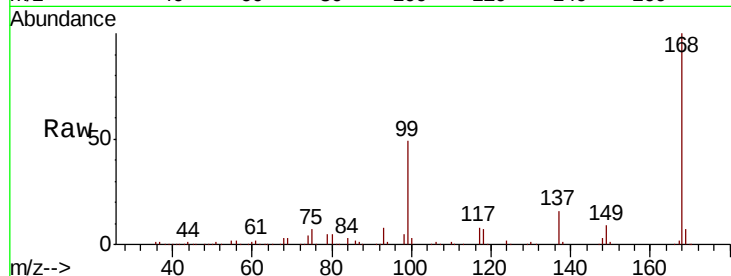
Z3-0675DL

Tot Ion:168 Resp: 231688

Ion Ratio Lower Upper

168 100

99 48.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

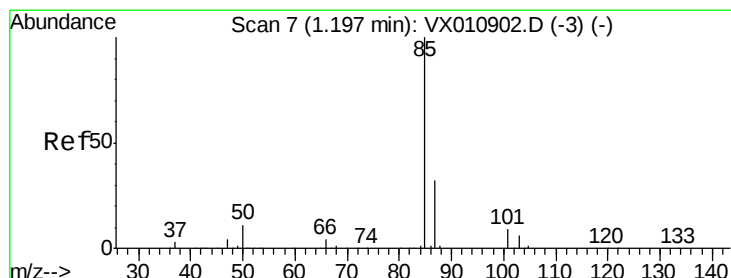
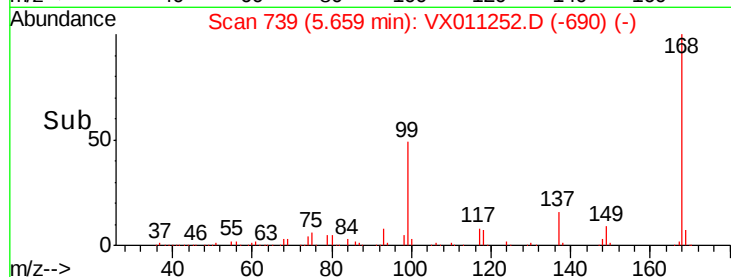
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.563 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011252.D

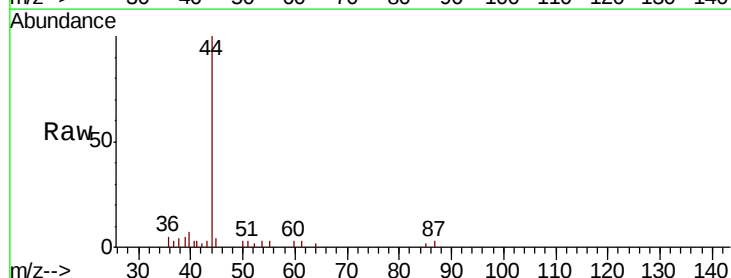
Acq: 31 Jul 2019 18:50

Tgt Ion: 85 Resp: 41

Ion Ratio Lower Upper

85 100

87 131.6 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80

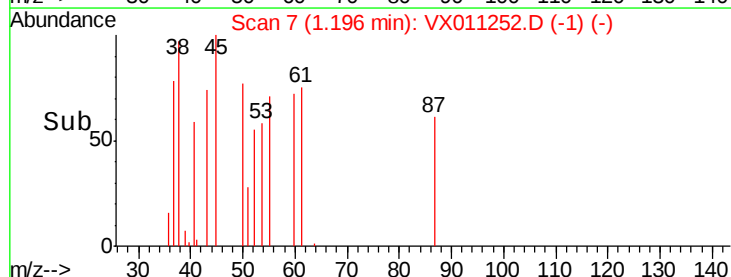
60

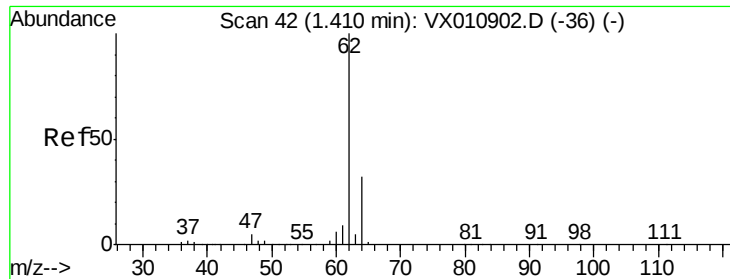
40

20

0

Time--> 1.18 1.20 1.22





#4

Vinyl Chloride

Concen: 0.686 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampleId :

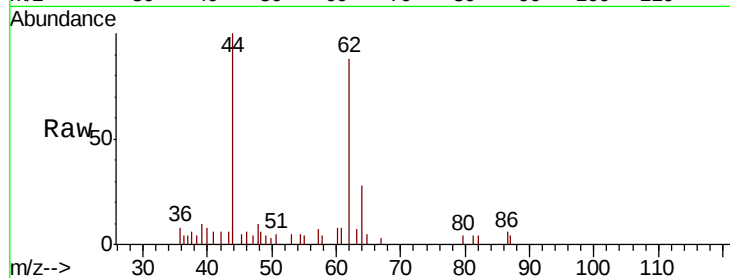
Z3-0675DL

Tot Ion: 62 Resp: 1490

Ion Ratio Lower Upper

62 100

64 23.3 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

1500

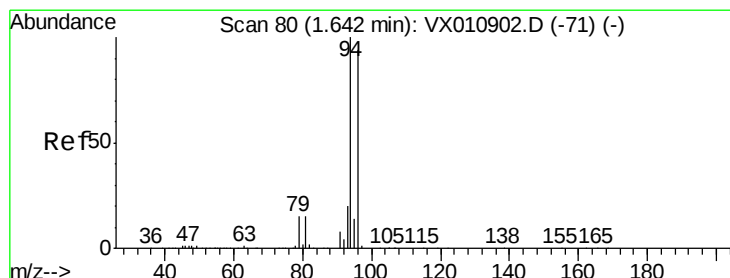
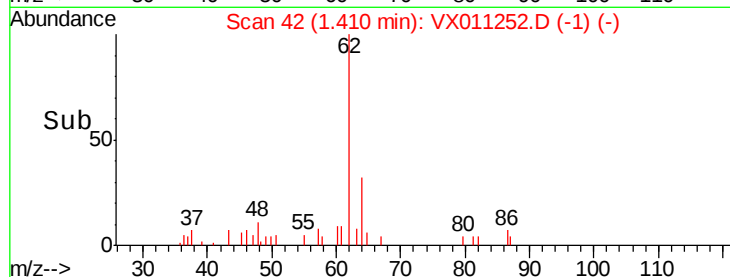
1000

500

0

1.40 1.41 1.42 1.43 1.44 1.45

Time-->



#5

Bromomethane

Concen: 0.381 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011252.D

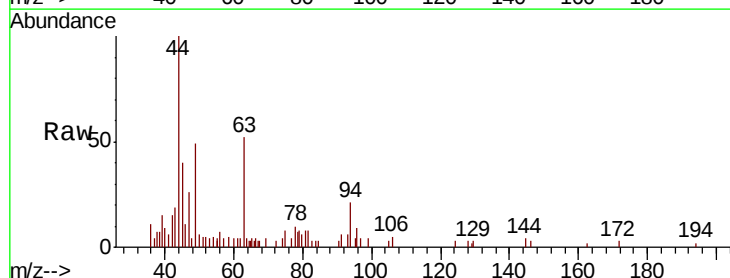
Acq: 31 Jul 2019 18:50

Tgt Ion: 94 Resp: 466

Ion Ratio Lower Upper

94 100

96 34.9 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

300

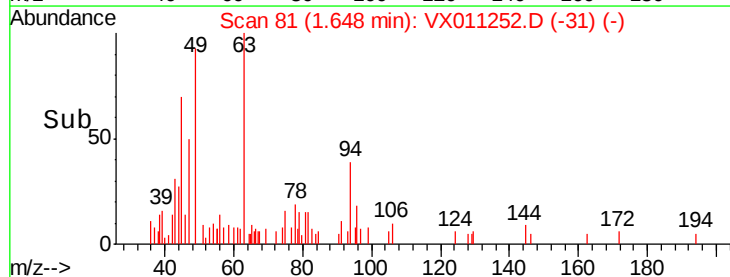
200

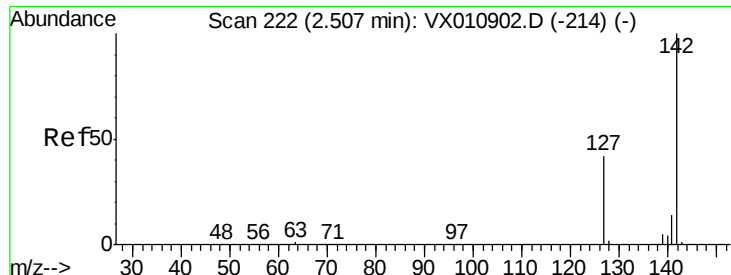
100

0

1.60 1.61 1.62 1.63 1.64 1.65 1.66 1.67 1.68 1.69

Time-->

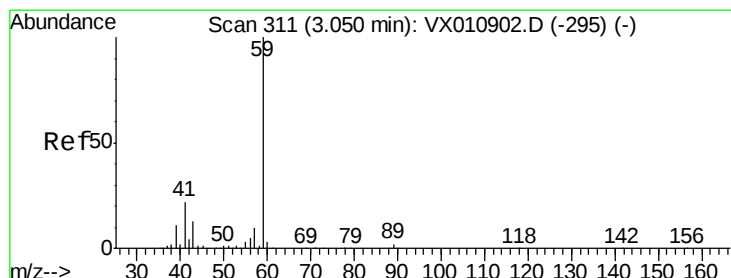
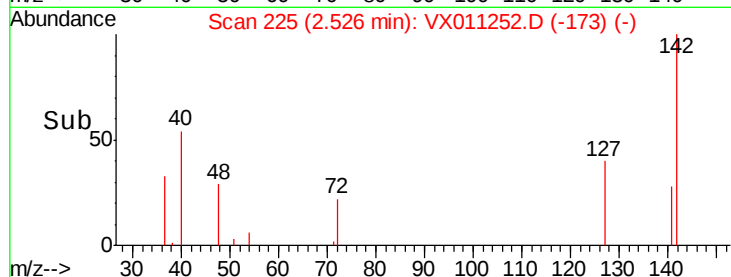
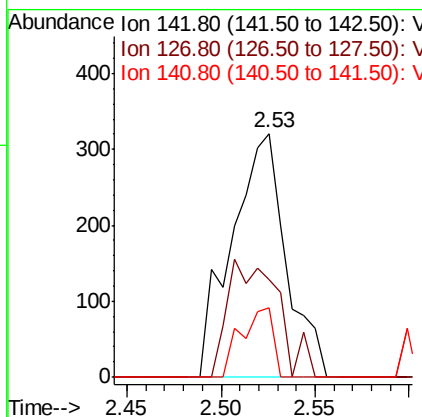
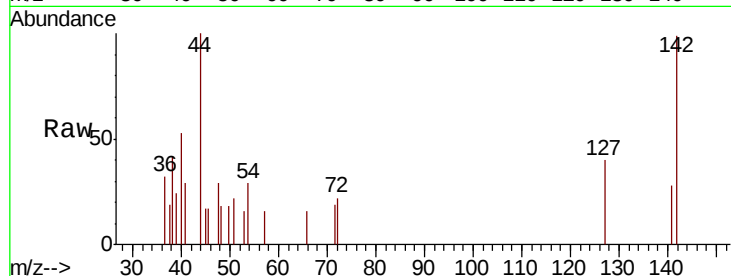




#10
Methvl Iodide
Concen: 0.233 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

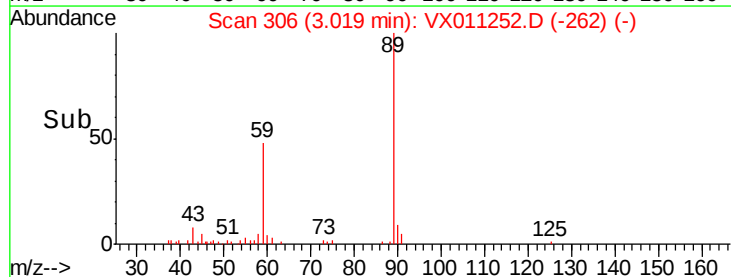
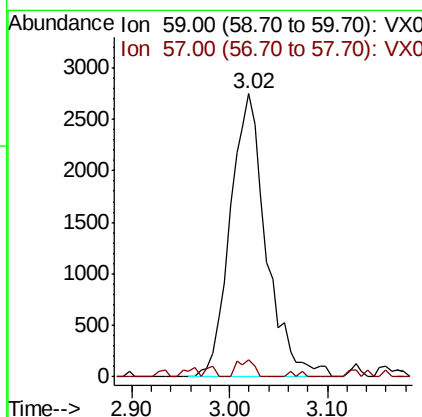
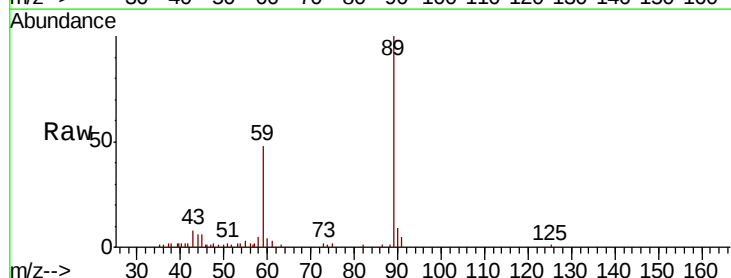
Instrument :
MSVOA_X
ClientSampleId :
Z3-0675DL

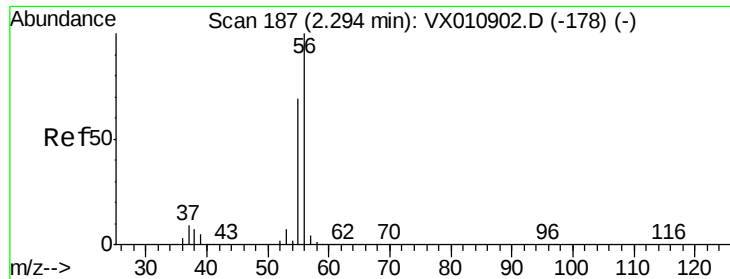
Tot Ion:142 Resp: 643
Ion Ratio Lower Upper
142 100
127 44.9 34.2 51.4
141 16.8 11.7 17.5



#11
Tert butyl alcohol
Concen: 12.194 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

Tgt Ion: 59 Resp: 7000
Ion Ratio Lower Upper
59 100
57 2.9 7.9 11.9#





#13

Acrolein

Concen: 0.226 ug/l

RT: 2.27 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampled :

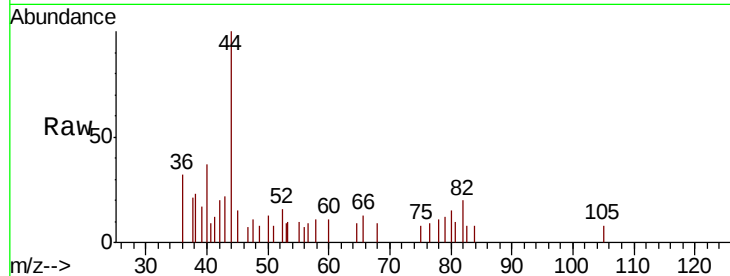
Z3-0675DL

Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

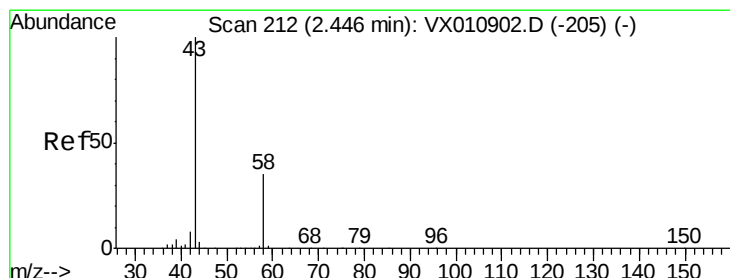
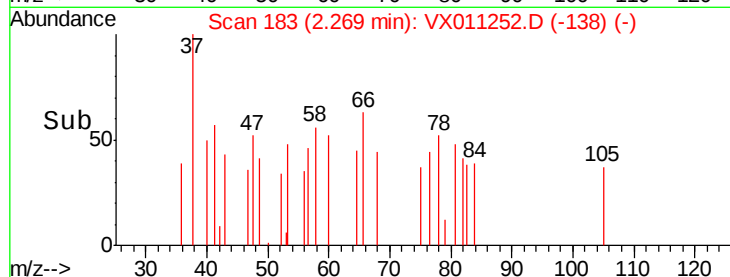
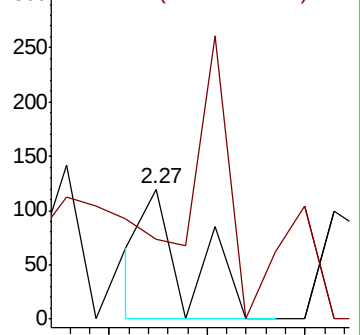
56 100

55 190.7 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.929 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX011252.D

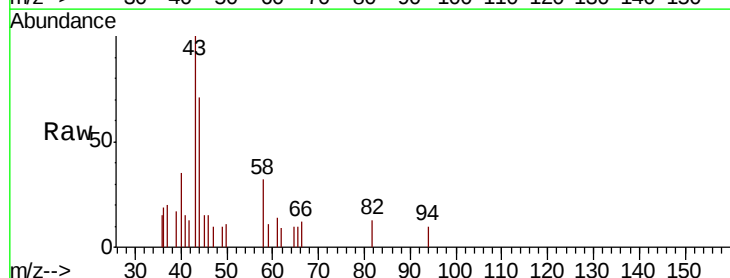
Acq: 31 Jul 2019 18:50

Tgt Ion: 43 Resp: 1034

Ion Ratio Lower Upper

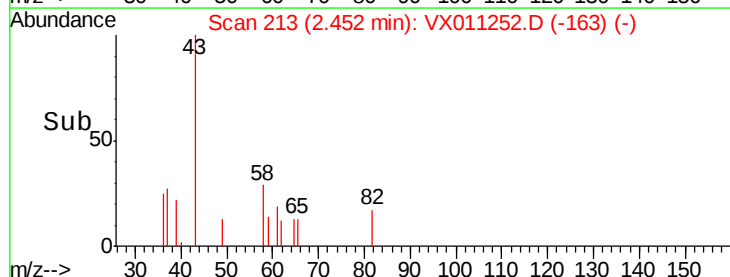
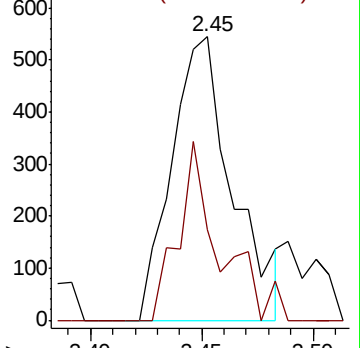
43 100

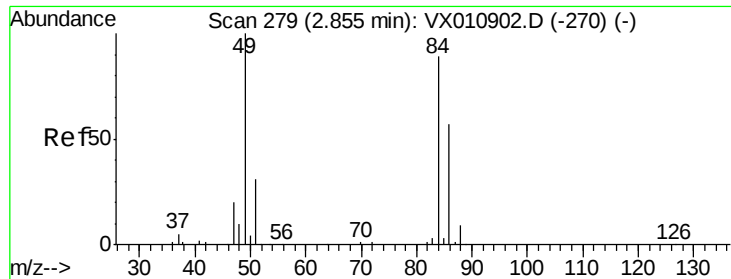
58 32.0 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

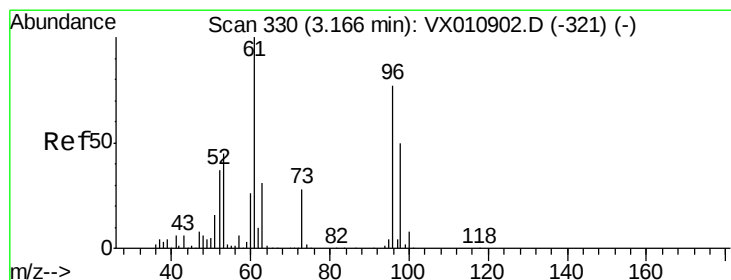
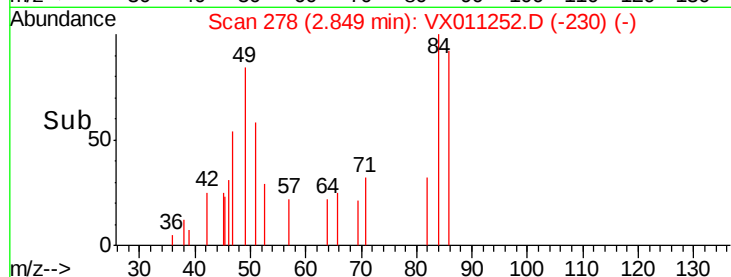
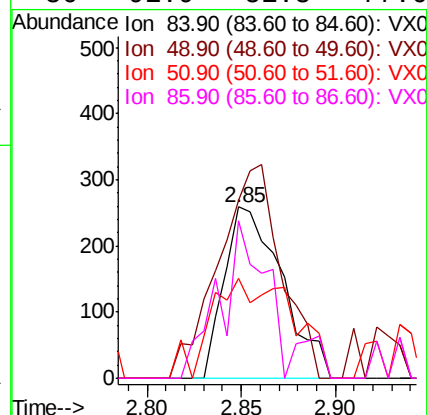
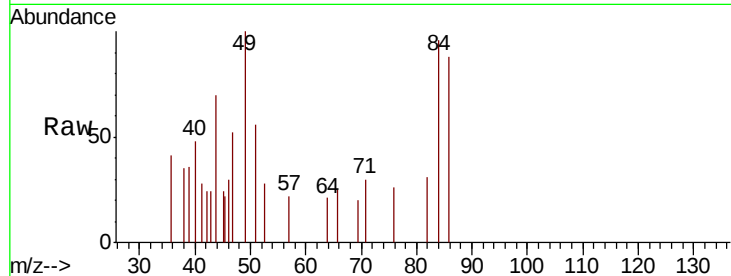




#20
Methylene Chloride
Concen: 0.233 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

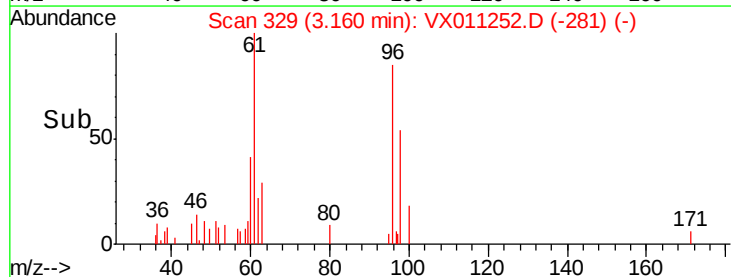
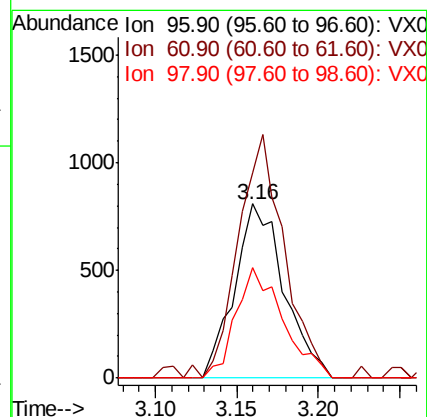
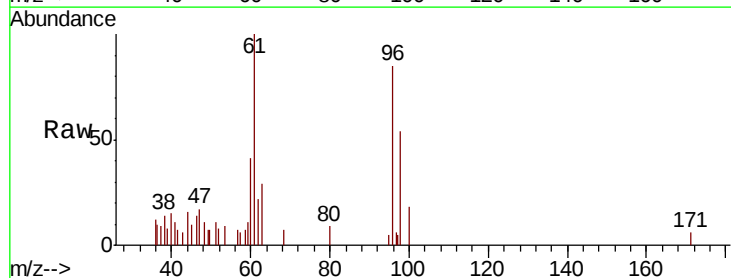
Instrument :
MSVOA_X
ClientSampleId :
Z3-0675DL

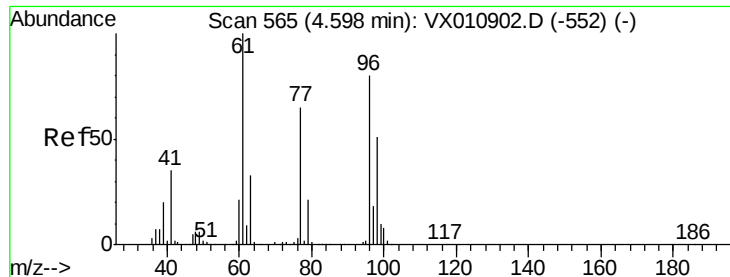
Tot Ion: 84 Resp: 550
Ion Ratio Lower Upper
84 100
49 103.9 89.9 134.9
51 57.9 27.8 41.6#
86 91.9 51.8 77.6#



#21
trans-1,2-Dichloroethene
Concen: 0.785 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

Tgt Ion: 96 Resp: 1718
Ion Ratio Lower Upper
96 100
61 118.0 104.2 156.2
98 63.6 52.2 78.4



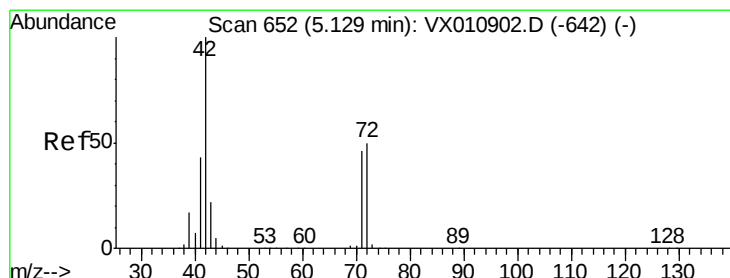
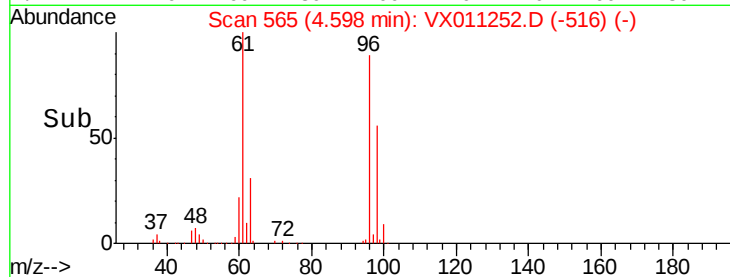
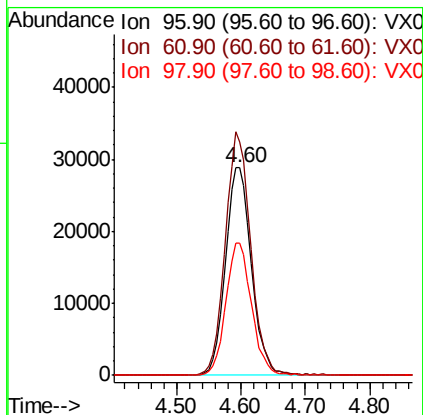
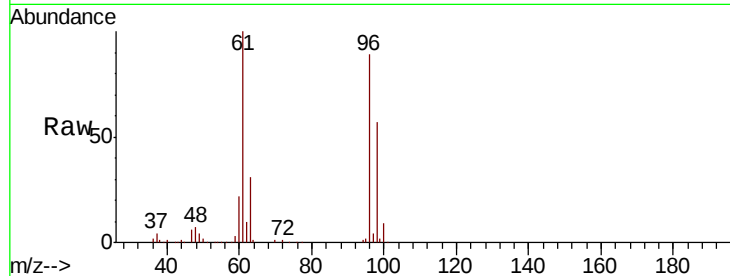


#27

cis-1,2-Dichloroethene
 Concen: 32.333 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX011252.D
 Acq: 31 Jul 2019 18:50

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0675DL

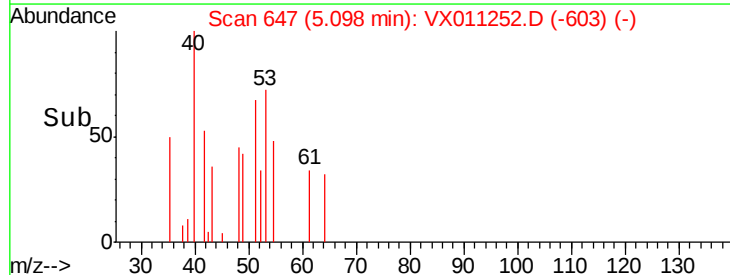
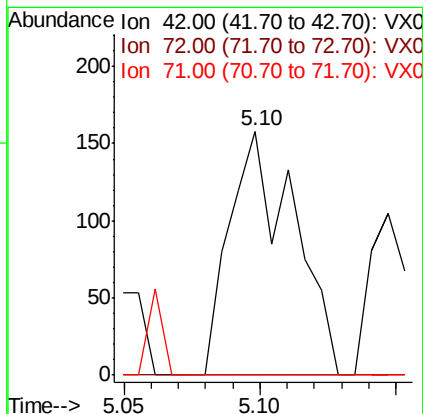
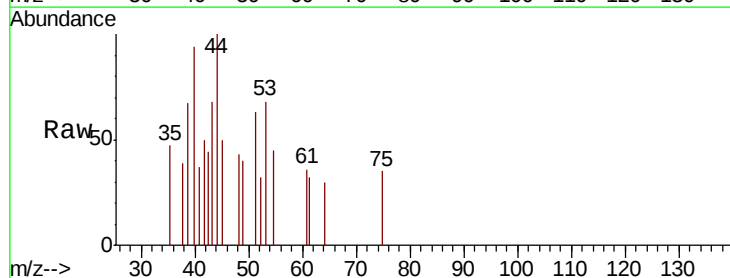
Tot Ion	96	Resp	81938
Ion	Ratio	Lower	Upper
96	100		
61	114.9	0.0	269.0
98	63.1	0.0	131.4

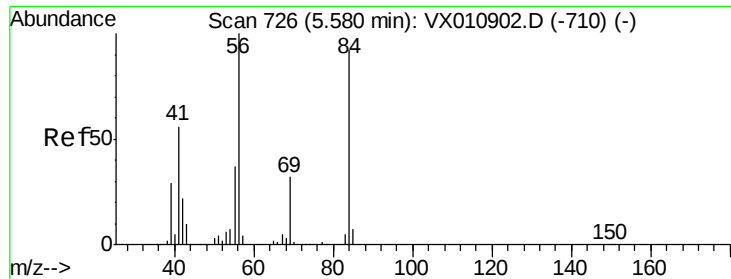


#29

Tetrahydrofuran
 Concen: 0.255 ug/l
 RT: 5.10 min Scan# 647
 Delta R.T. -0.03 min
 Lab File: VX011252.D
 Acq: 31 Jul 2019 18:50

Tgt Ion	42	Resp	258
Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.8	59.8#
71	0.0	37.0	55.4#

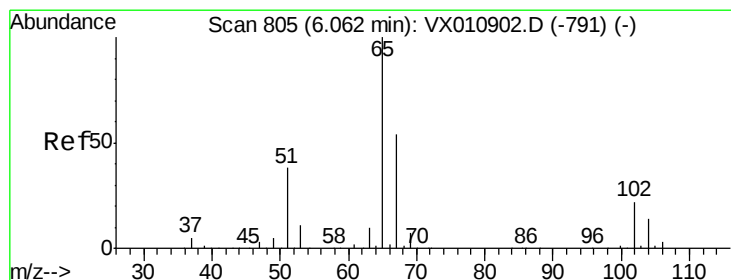
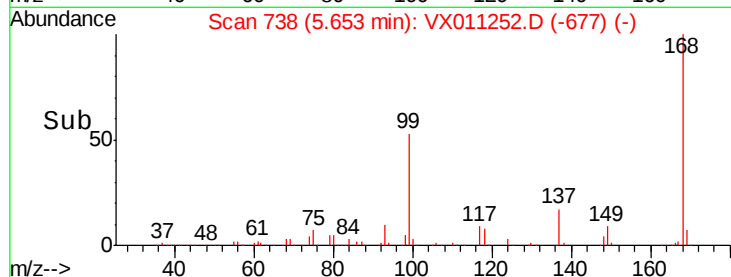
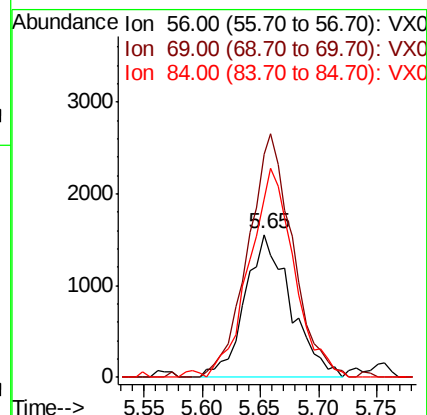
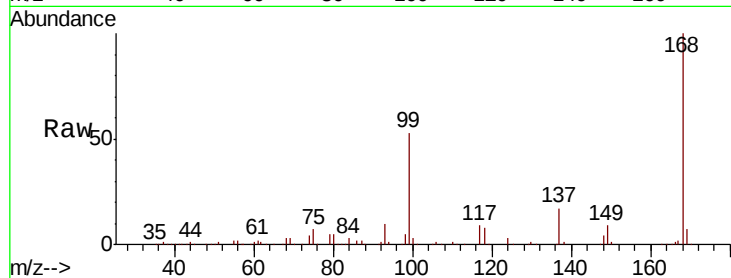




#31
Cyclohexane
Concen: 1.277 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

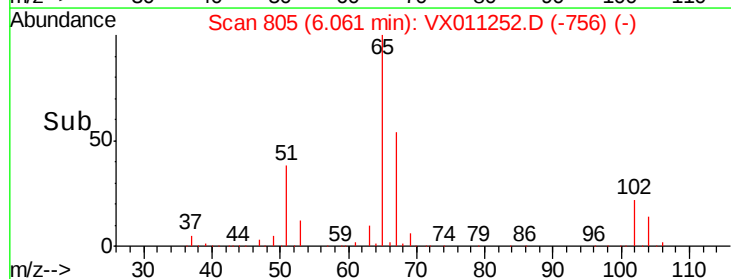
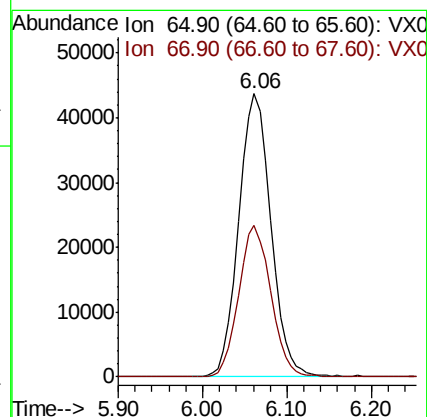
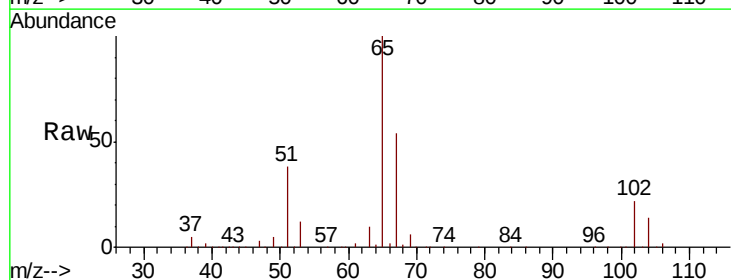
Instrument :
MSVOA_X
ClientSampled :
Z3-0675DL

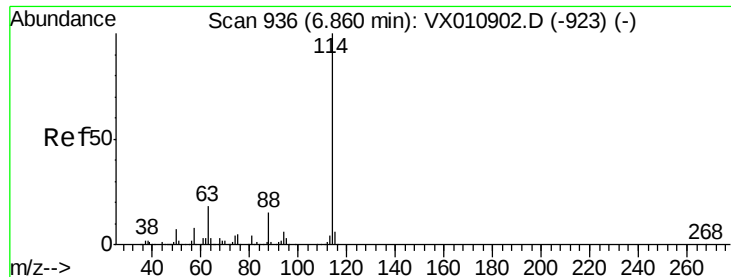
Tot Ion: 56 Resp: 4274
Ion Ratio Lower Upper
56 100
69 156.2 25.8 38.8#
84 120.7 73.8 110.6#



#33
1,2-Dichloroethane-d4
Concen: 45.756 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

Tgt Ion: 65 Resp: 112780
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampleId :

Z3-0675DL

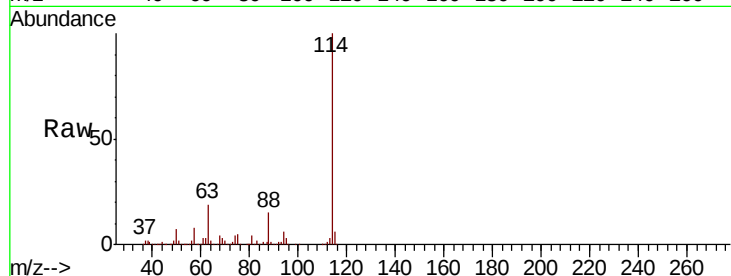
Tot Ion:114 Resp: 326763

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.6

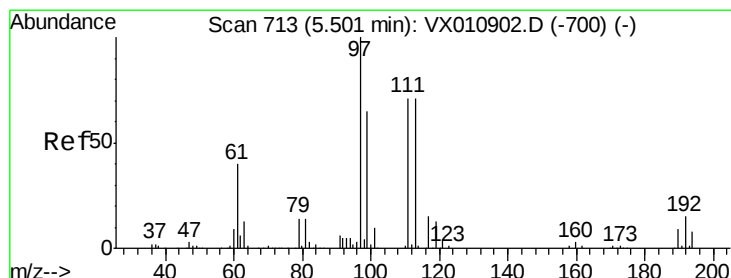
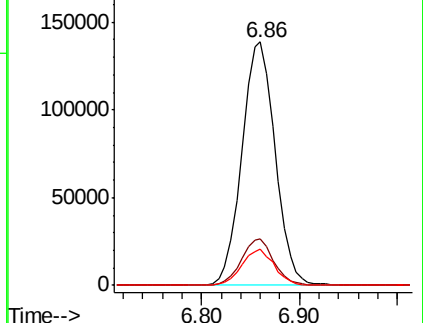
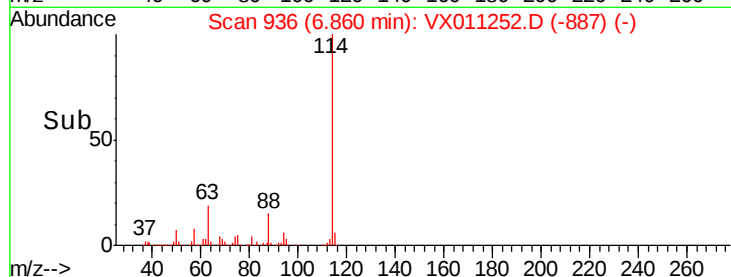
88 14.9 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.222 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

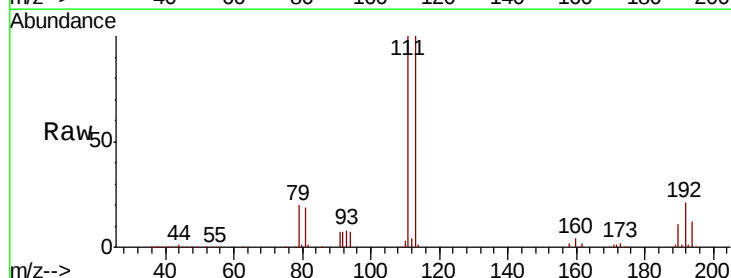
Tgt Ion:113 Resp: 95865

Ion Ratio Lower Upper

113 100

111 101.3 82.3 123.5

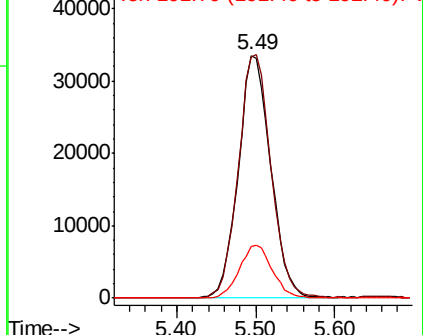
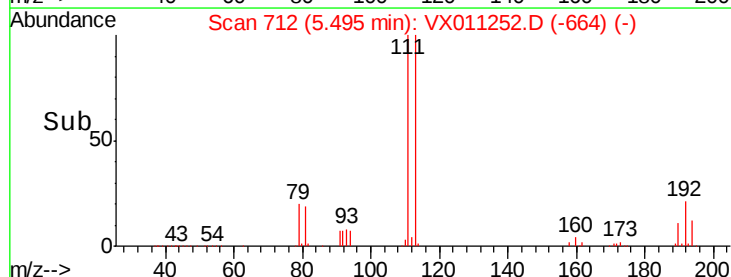
192 22.0 17.4 26.2

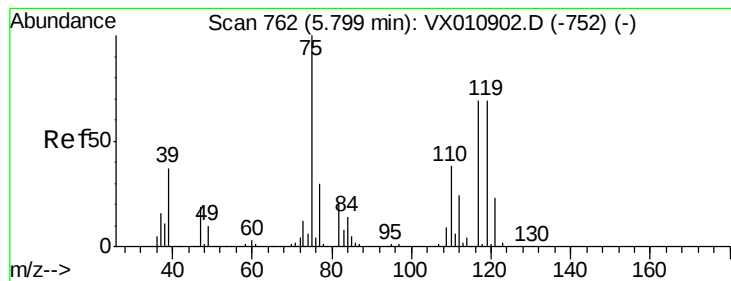


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.754 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampleId :

Z3-0675DL

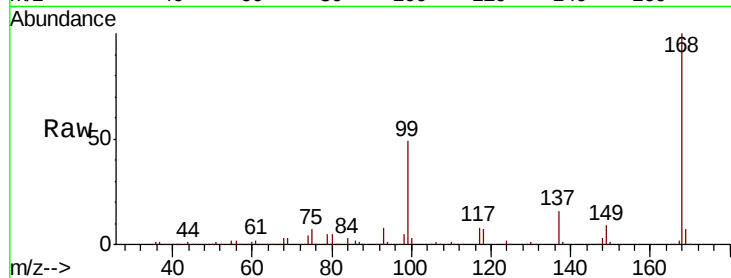
Tot Ion: 75 Resp: 15445

Ion Ratio Lower Upper

75 100

110 10.6 19.9 59.7#

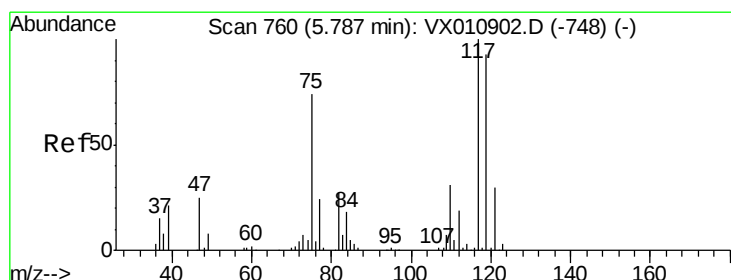
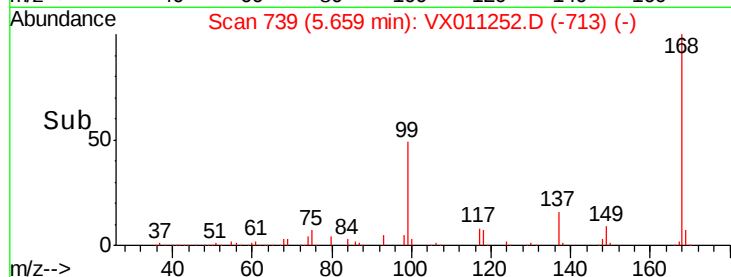
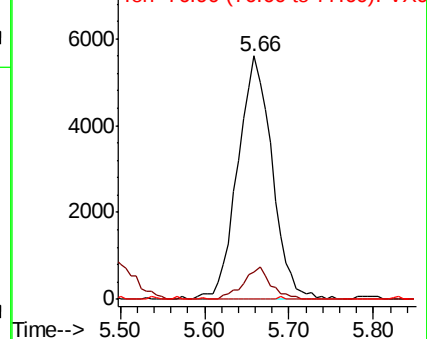
77 0.0 25.0 37.4#



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: 7.757 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

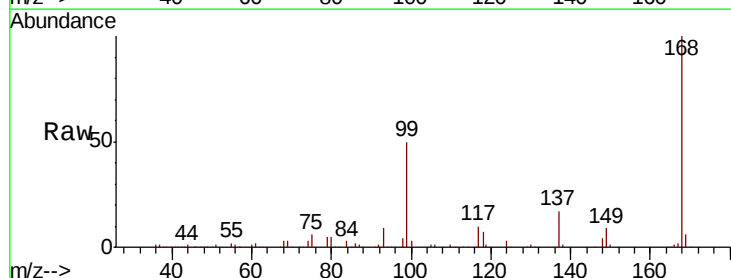
Tgt Ion: 117 Resp: 21696

Ion Ratio Lower Upper

117 100

119 6.3 74.2 111.2#

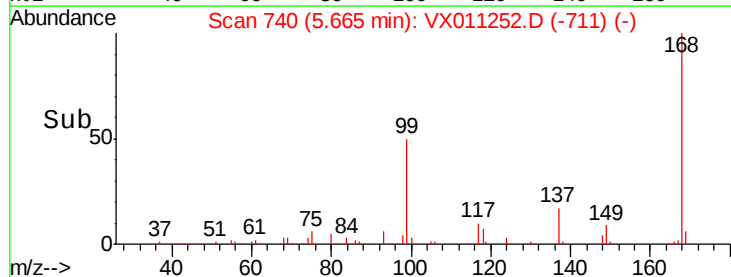
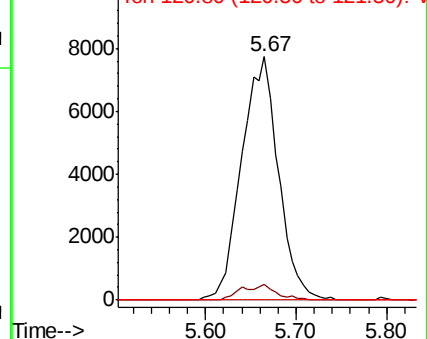
121 0.0 24.2 36.2#

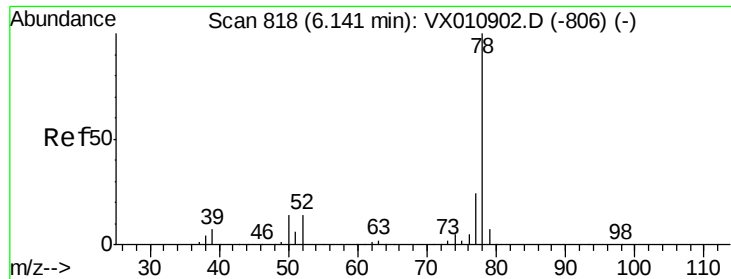


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.322 ug/l

RT: 6.13 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampleId :

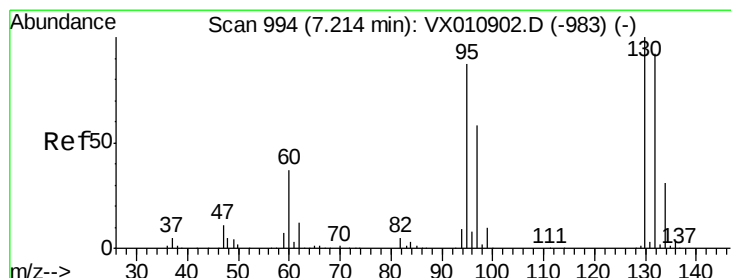
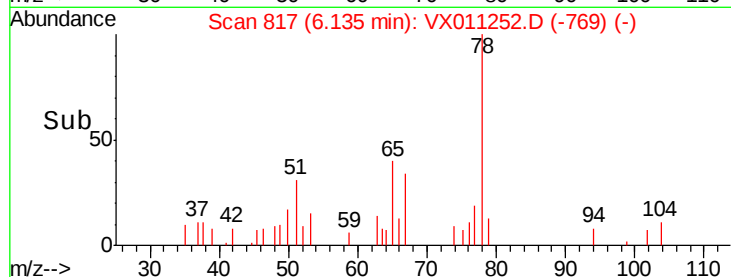
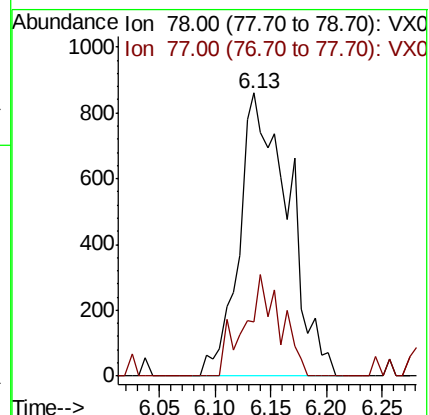
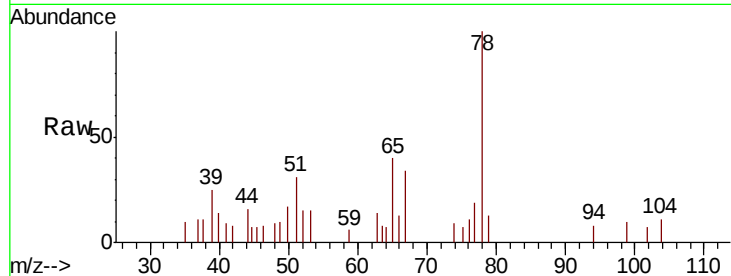
Z3-0675DL

Tot Ion: 78 Resp: 2644

Ion Ratio Lower Upper

78 100

77 19.2 19.0 28.6



#44

Trichloroethene

Concen: 0.361 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX011252.D

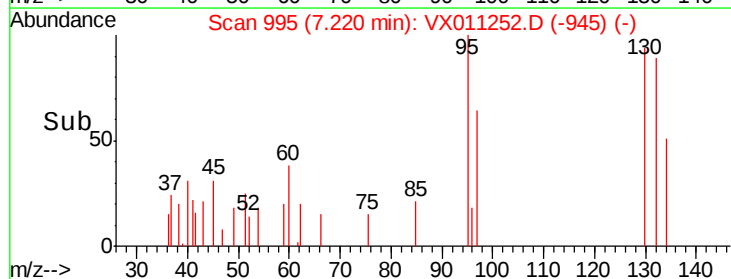
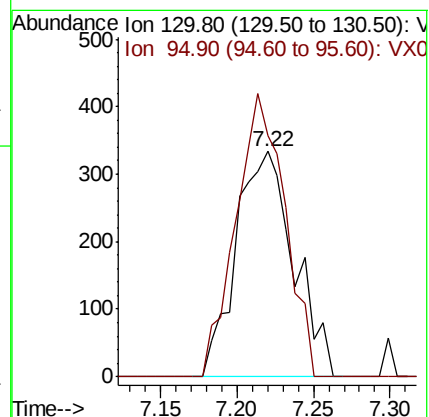
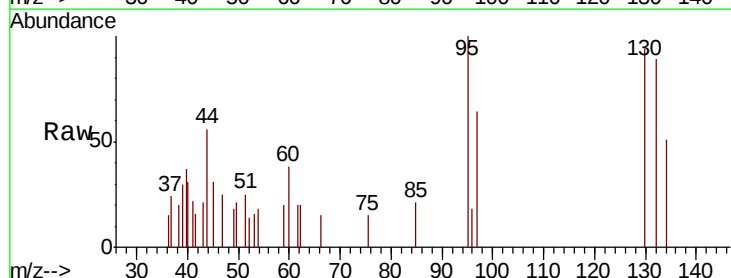
Acq: 31 Jul 2019 18:50

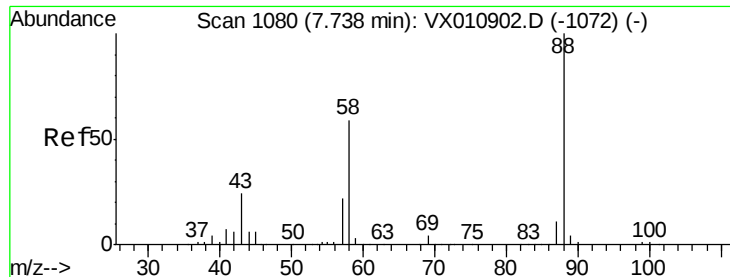
Tgt Ion: 130 Resp: 878

Ion Ratio Lower Upper

130 100

95 106.9 0.0 174.8





#49

1,4-Dioxane

Concen: 0.779 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.08 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampleId :

Z3-0675DL

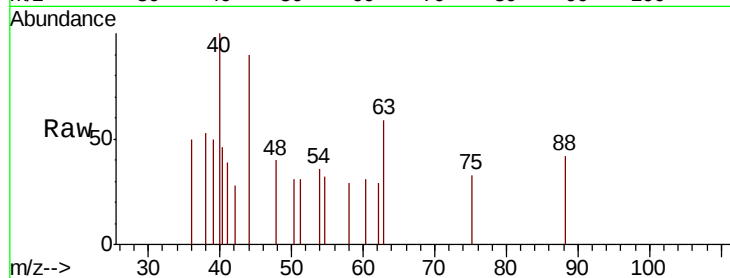
Tot Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 0.0 22.9 34.3#

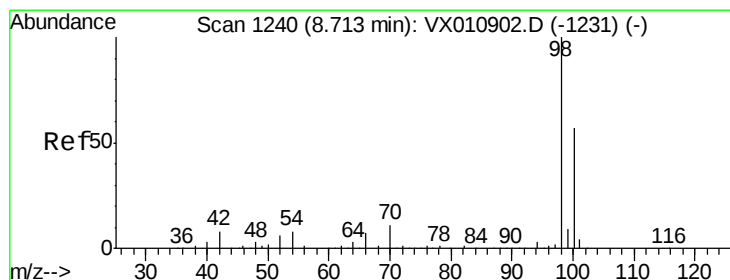
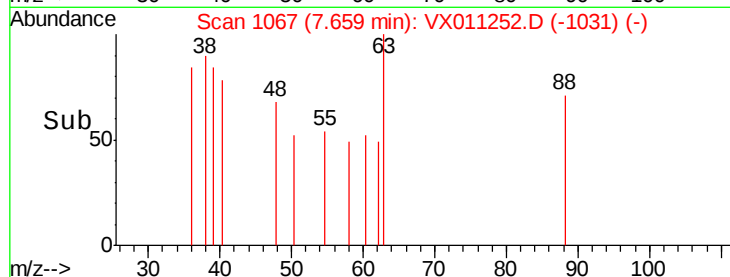
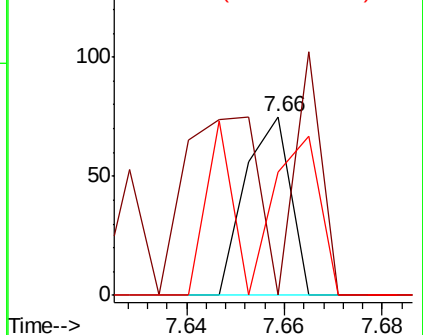
58 91.7 49.8 74.8#



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: 48.767 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011252.D

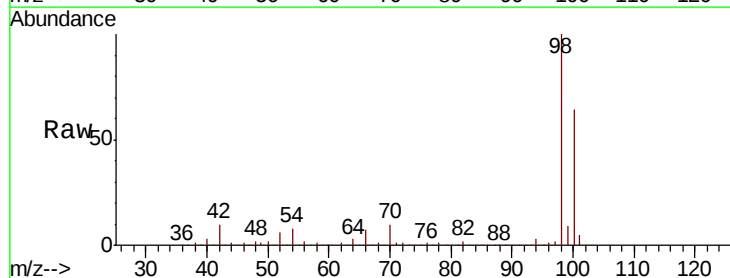
Acq: 31 Jul 2019 18:50

Tgt Ion: 98 Resp: 379359

Ion Ratio Lower Upper

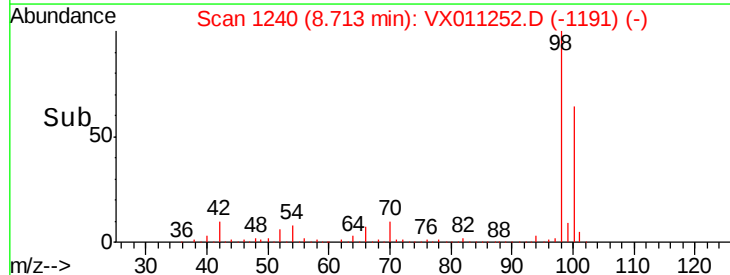
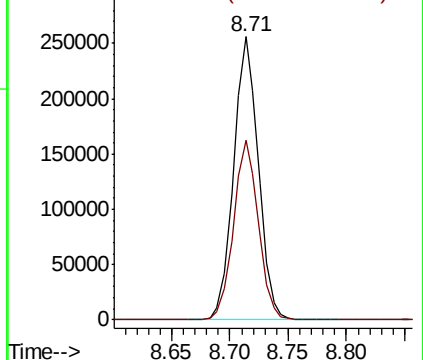
98 100

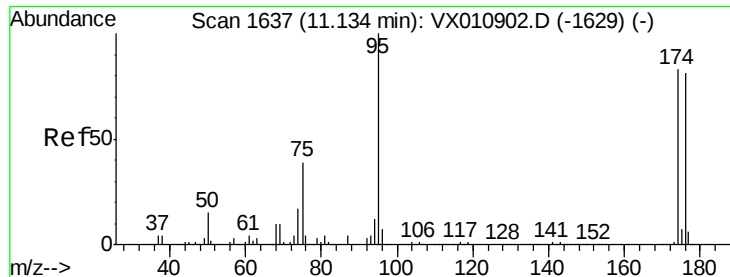
100 63.6 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

Instrument :

MSVOA_X

ClientSampled :

Z3-0675DL

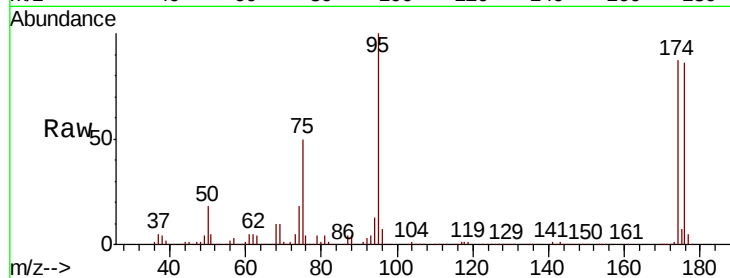
Tot Ion: 95 Resp: 127441

Ion Ratio Lower Upper

95 100

174 89.2 0.0 180.6

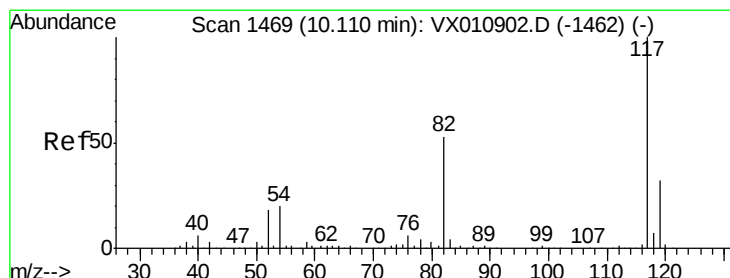
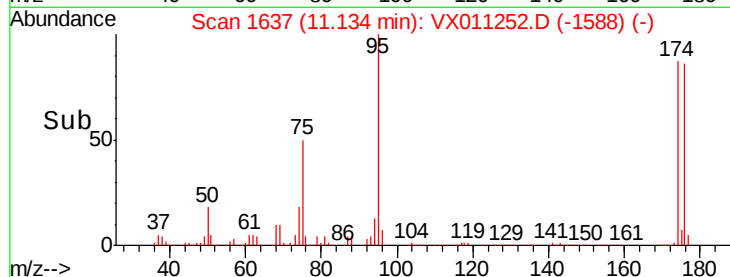
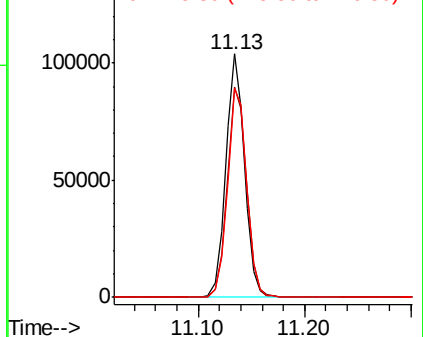
176 88.1 0.0 173.8



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011252.D

Acq: 31 Jul 2019 18:50

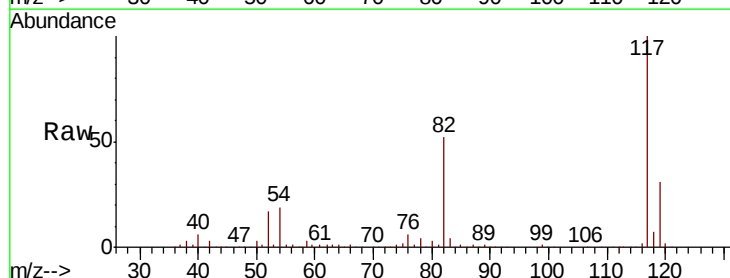
Tgt Ion: 117 Resp: 290837

Ion Ratio Lower Upper

117 100

82 51.9 42.6 63.8

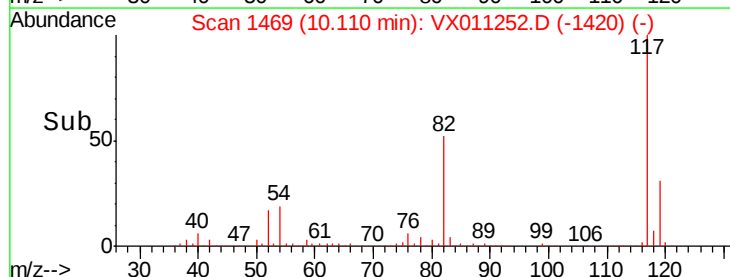
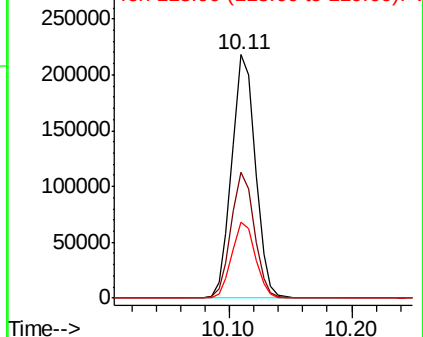
119 30.9 25.9 38.9

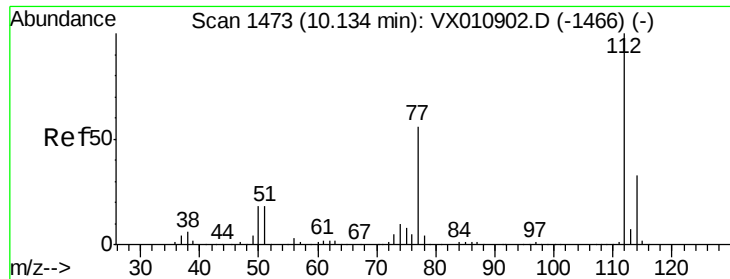


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

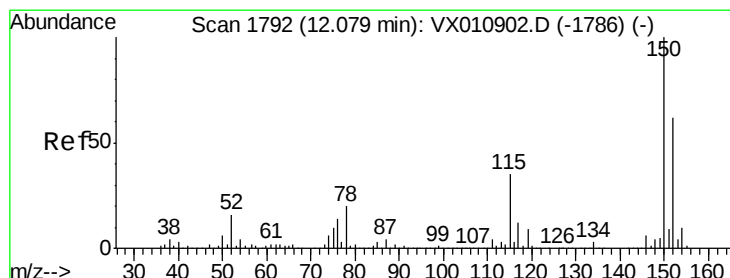
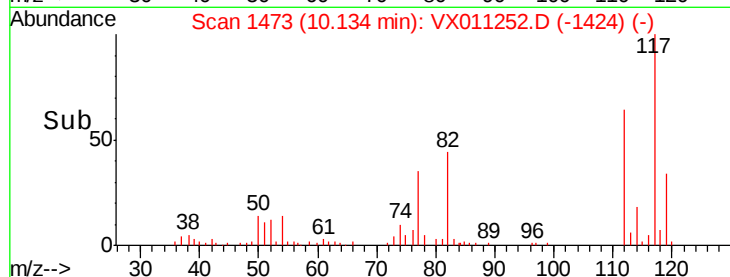
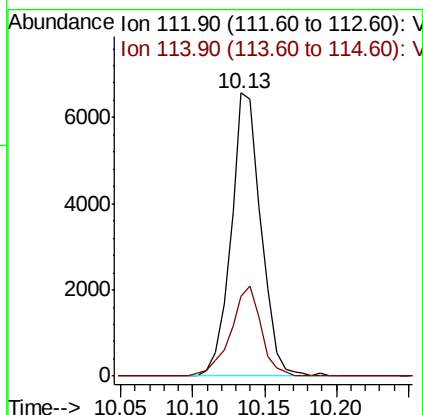
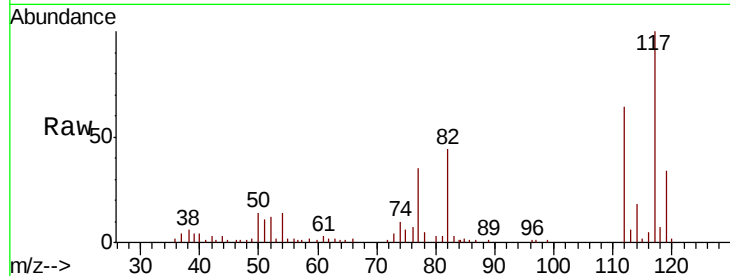




#65
Chlorobenzene
Concen: 1.597 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

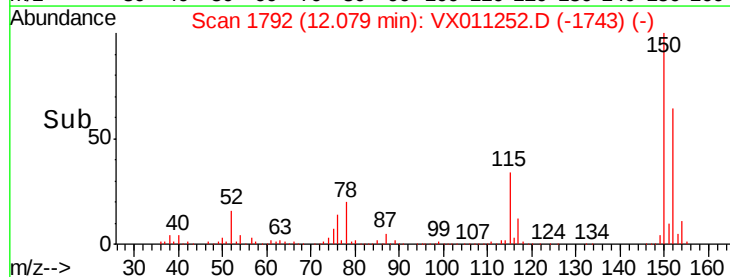
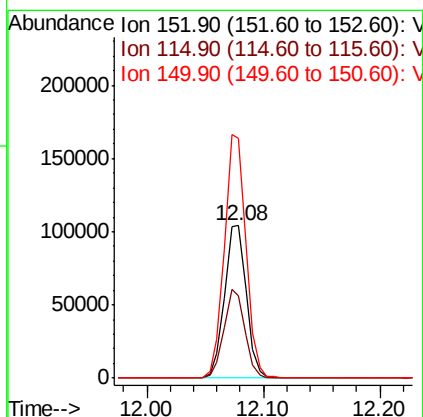
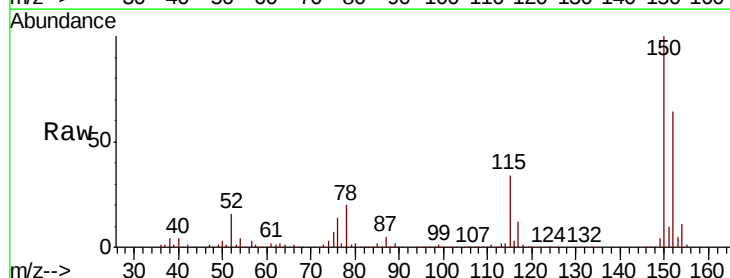
Instrument :
MSVOA_X
ClientSampleId :
Z3-0675DL

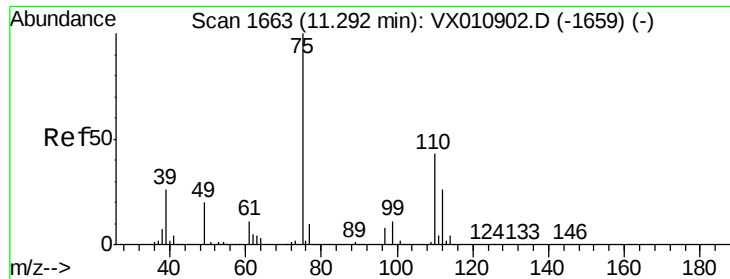
Tot Ion:112 Resp: 9539
Ion Ratio Lower Upper
112 100
114 28.2 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011252.D
Acq: 31 Jul 2019 18:50

Tgt Ion:152 Resp: 134781
Ion Ratio Lower Upper
152 100
115 55.9 39.7 119.1
150 158.2 0.0 345.6

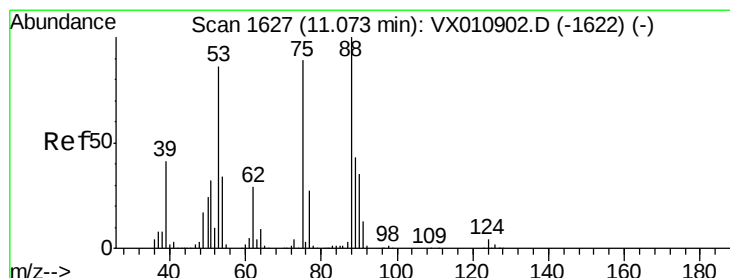
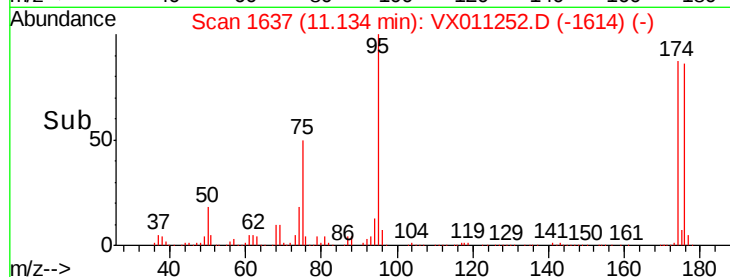
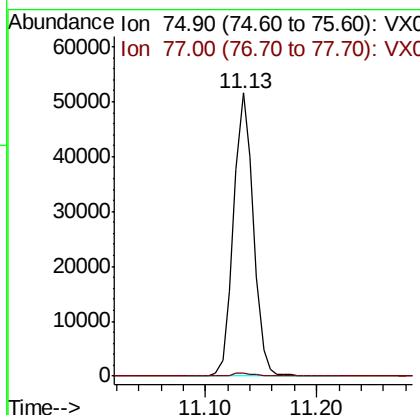
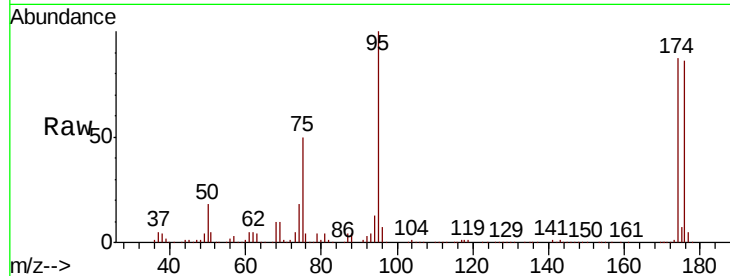




#76
 1,2,3-Trichloropropane
 Concen: 26.168 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011252.D
 Acq: 31 Jul 2019 18:50

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0675DL

Tot Ion: 75 Resp: 63645
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.000 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011252.D
 Acq: 31 Jul 2019 18:50

Tgt Ion: 75 Resp: 63645
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.7 115.1#
 89 0.0 38.5 57.7#

