

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072518\
 Data File : VX003658.D
 Acq On : 25 Jul 2018 14:58
 Operator : JC/SP
 Sample : J4073-11DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

Quant Time: Jul 27 04:34:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 02:16:51 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	91988	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	143810	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	133384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	88213	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	66461	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
35) Dibromofluoromethane	5.51	113	53878	45.83	ug/l	0.00
Spiked Amount			Recovery	=	91.66%	
50) Toluene-d8	8.72	98	203091	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
62) 4-Bromofluorobenzene	11.14	95	69480	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	

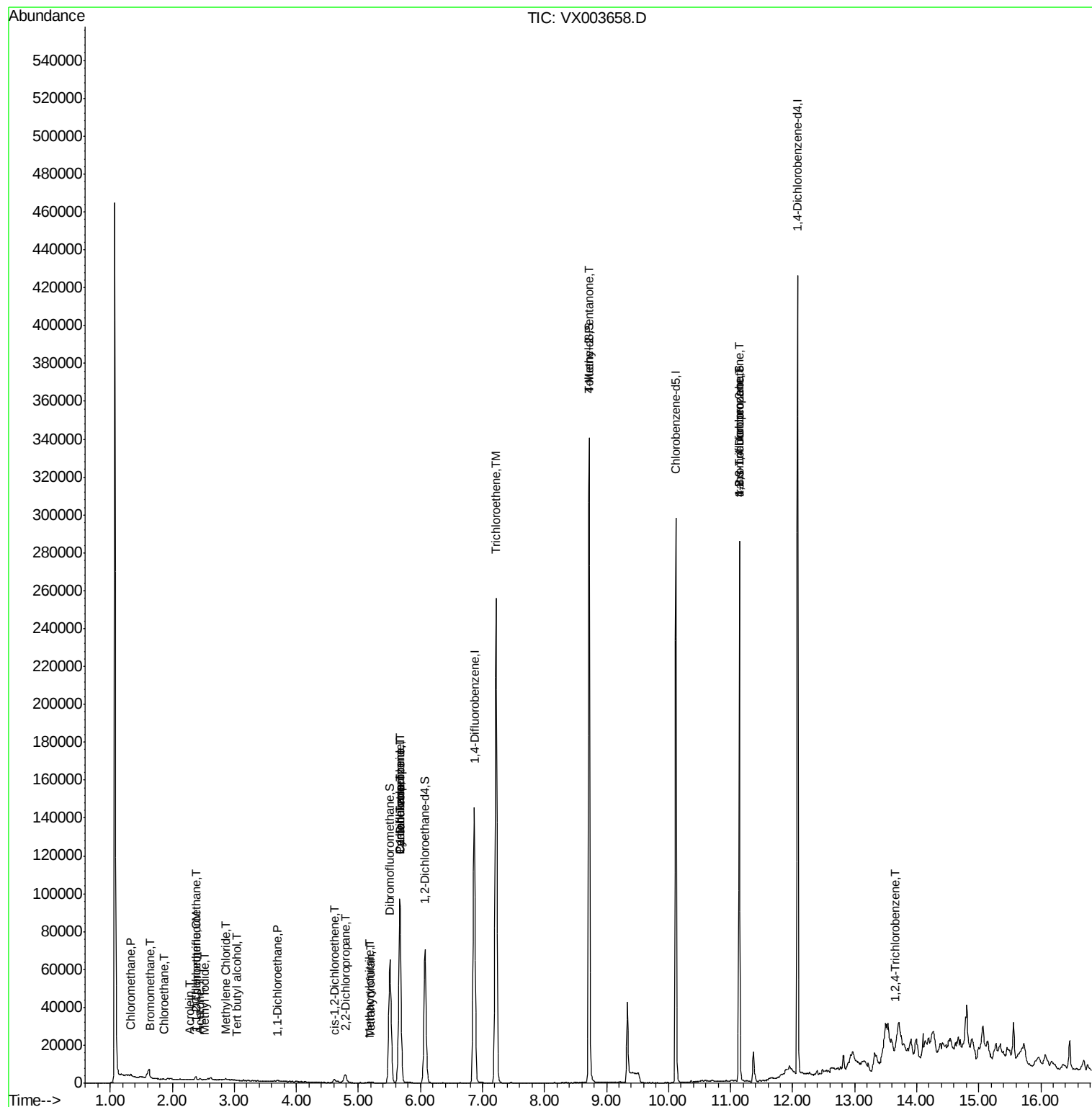
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	345	0.250	ug/l	94
5) Bromomethane	1.64	94	583	0.855	ug/l	87
6) Chloroethane	1.86	64	768	2.622	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	2.39	101	245	0.219	ug/l #	94
10) Methyl Iodide	2.52	142	266	3.338	ug/l #	82
11) Tert butyl alcohol	3.03	59	79	0.243	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	346	0.325	ug/l #	77
13) Acrolein	2.29	56	21	4.158	ug/l #	1
16) Acetone	2.44	43	680	1.062	ug/l #	70
20) Methylene Chloride	2.86	84	314	0.248	ug/l #	85
24) 1,1-Dichloroethane	3.70	63	685	0.300	ug/l #	83
26) 2,2-Dichloropropane	4.78	77	331	0.229	ug/l #	51
27) cis-1,2-Dichloroethene	4.61	96	432	0.348	ug/l #	1
29) Tetrahydrofuran	5.19	42	390	0.606	ug/l #	39
31) Cyclohexane	5.67	56	1821	0.994	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6482	3.856	ug/l #	49
38) Carbon Tetrachloride	5.67	117	8658	5.344	ug/l #	13
41) Methacrylonitrile	5.17	41	256	0.229	ug/l #	42
44) Trichloroethene	7.22	130	99707	74.758	ug/l	99
51) 4-Methyl-2-Pentanone	8.71	43	938	0.471	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	35621	19.252	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	35621	59.648	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	477	0.215	ug/l	85

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

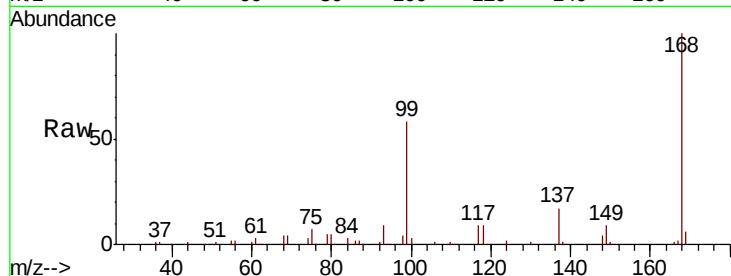
RE108D2-071718DL

Tgt Ion:168 Resp: 91988

Ion Ratio Lower Upper

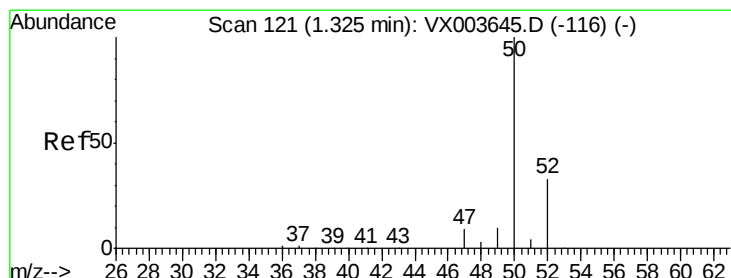
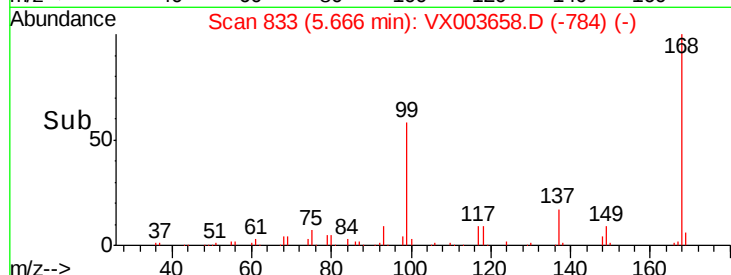
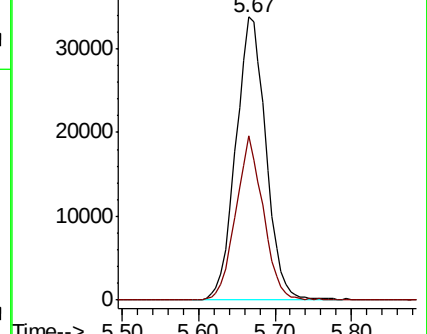
168 100

99 58.3 49.5 74.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.250 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003658.D

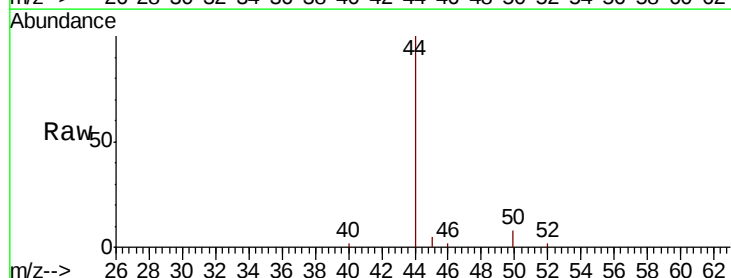
Acq: 25 Jul 2018 14:58

Tgt Ion: 50 Resp: 345

Ion Ratio Lower Upper

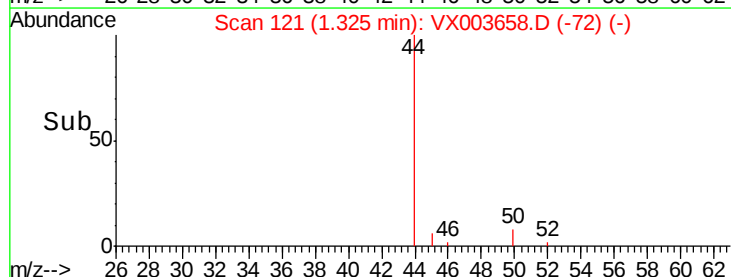
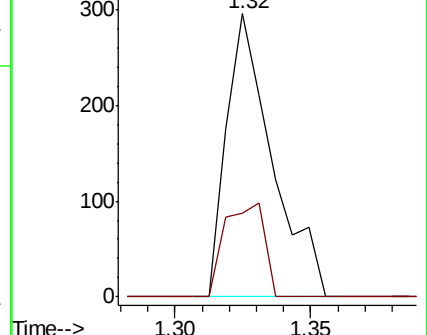
50 100

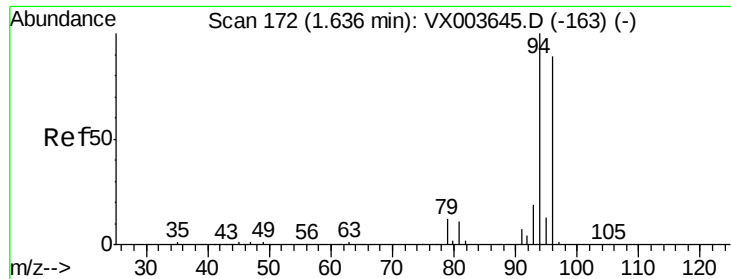
52 29.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.855 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

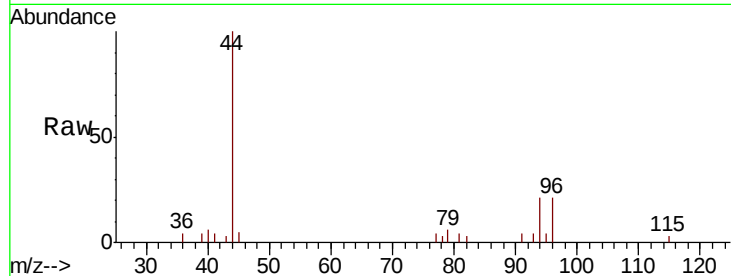
RE108D2-071718DL

Tgt Ion: 94 Resp: 583

Ion Ratio Lower Upper

94 100

96 100.8 71.3 106.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

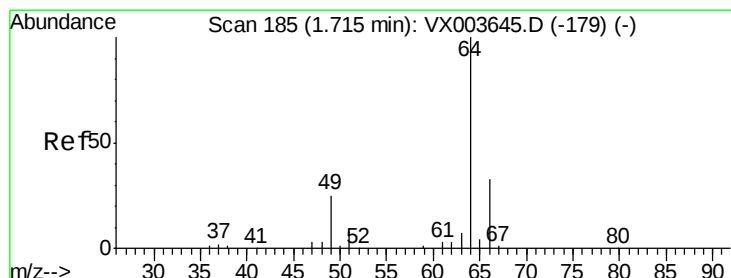
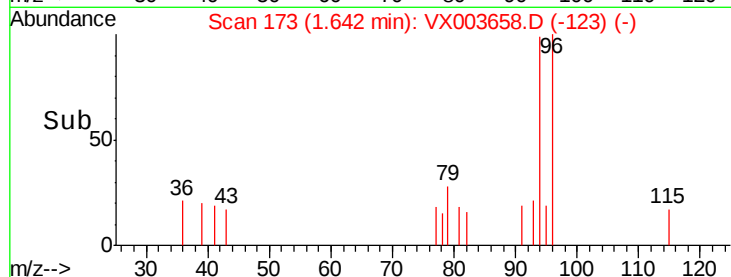
300

200

100

0

Time-->



#6

Chloroethane

Concen: 2.622 ug/l

RT: 1.86 min Scan# 209

Delta R.T. 0.15 min

Lab File: VX003658.D

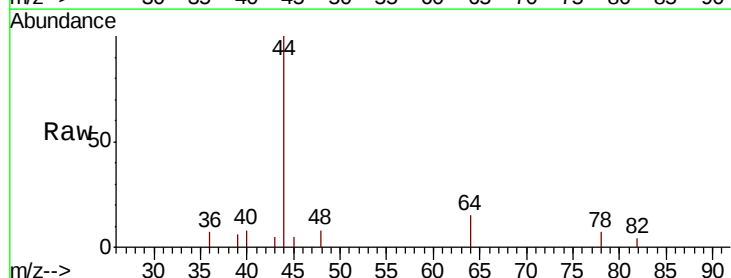
Acq: 25 Jul 2018 14:58

Tgt Ion: 64 Resp: 768

Ion Ratio Lower Upper

64 100

66 0.0 26.3 39.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.86

300

250

200

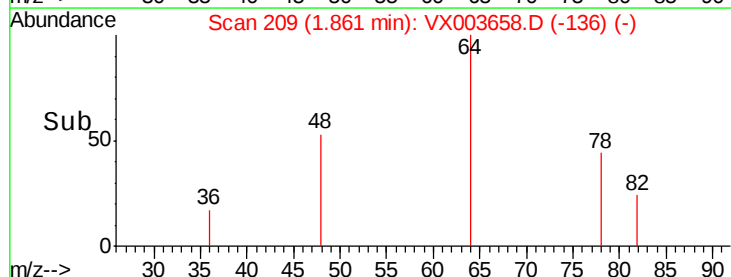
150

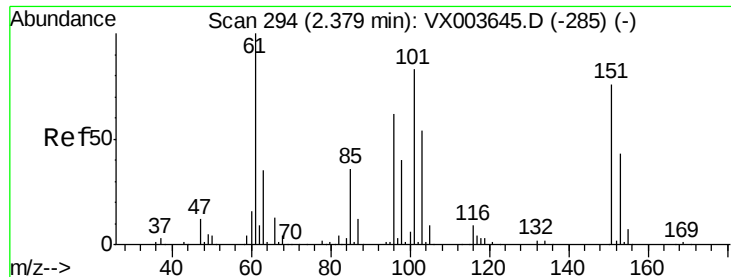
100

50

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.219 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-071718DL

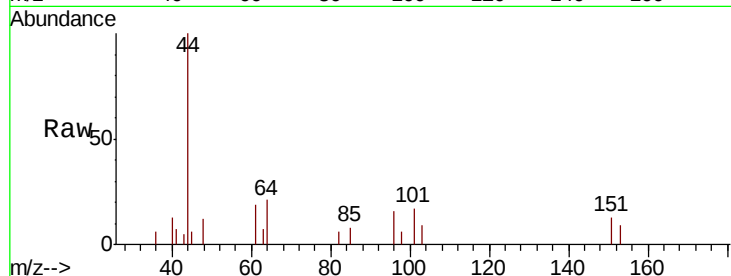
Tgt Ion:101 Resp: 245

Ion Ratio Lower Upper

101 100

85 33.5 34.6 52.0#

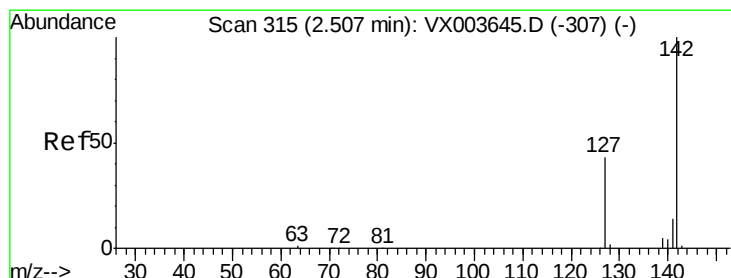
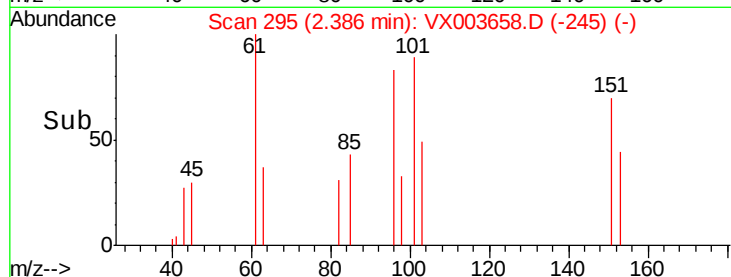
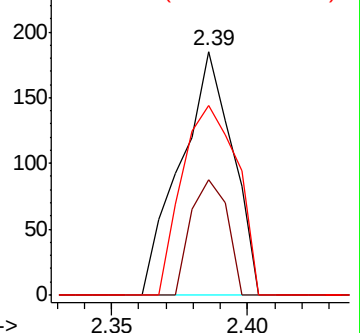
151 82.9 67.5 101.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 3.338 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

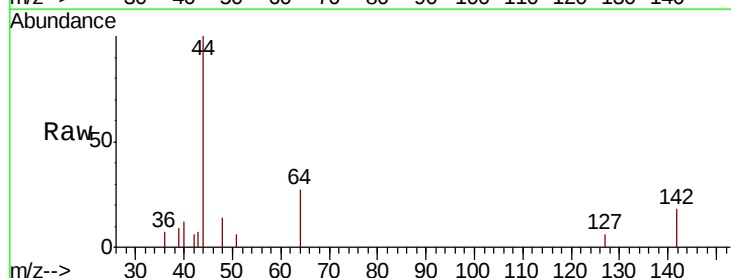
Tgt Ion:142 Resp: 266

Ion Ratio Lower Upper

142 100

127 34.2 34.0 51.0

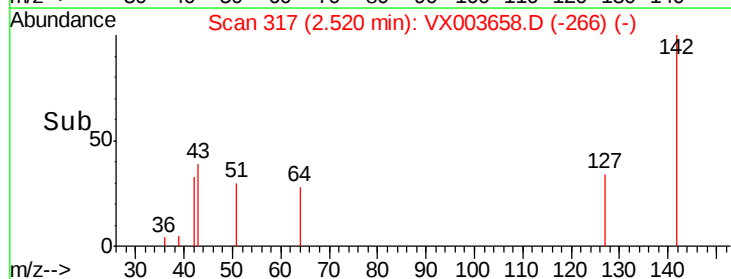
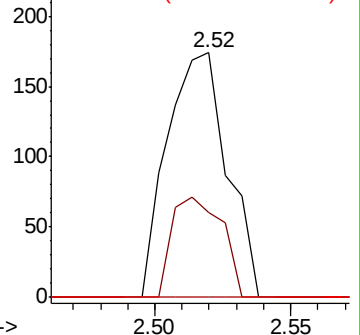
141 0.0 11.3 16.9#

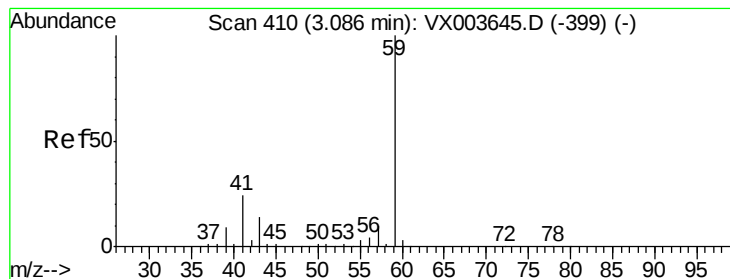


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.243 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.06 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

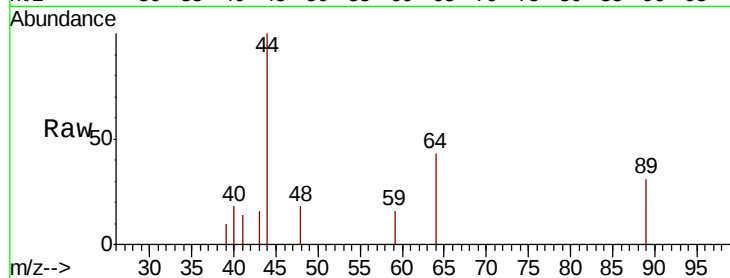
RE108D2-071718DL

Tgt Ion: 59 Resp: 79

Ion Ratio Lower Upper

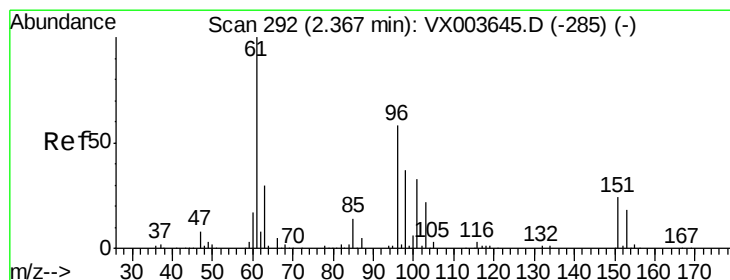
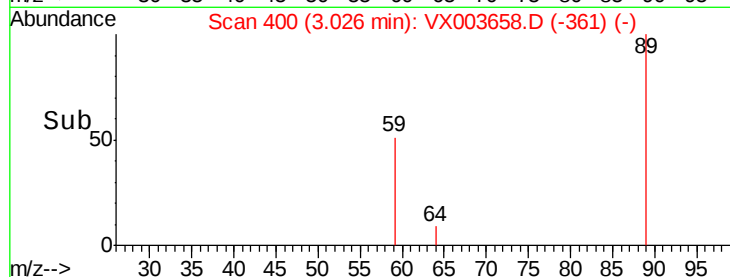
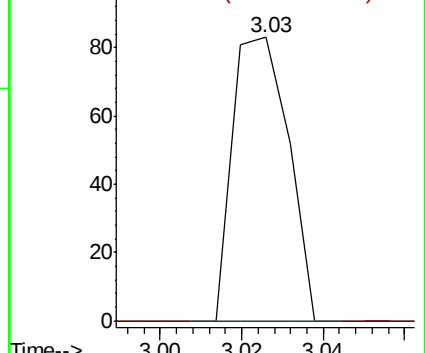
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#12

1,1-Dichloroethene

Concen: 0.325 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.01 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

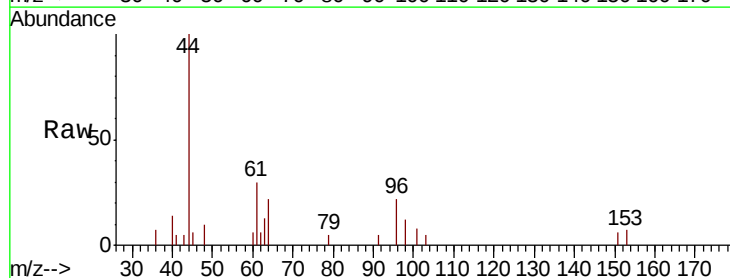
Tgt Ion: 96 Resp: 346

Ion Ratio Lower Upper

96 100

61 135.0 138.8 208.2#

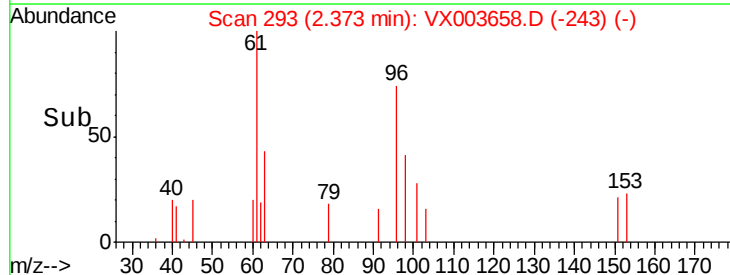
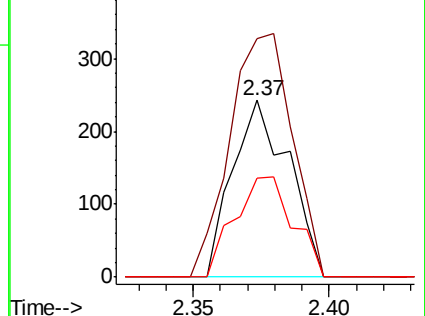
98 56.0 51.4 77.2

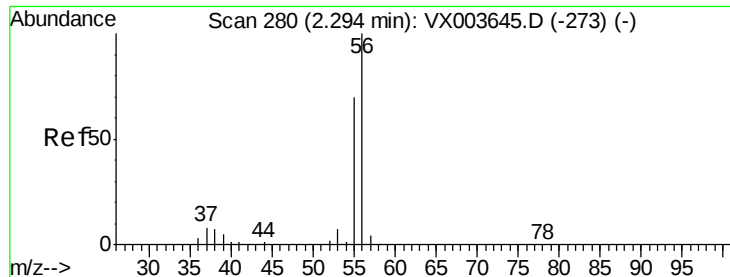


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 4.158 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

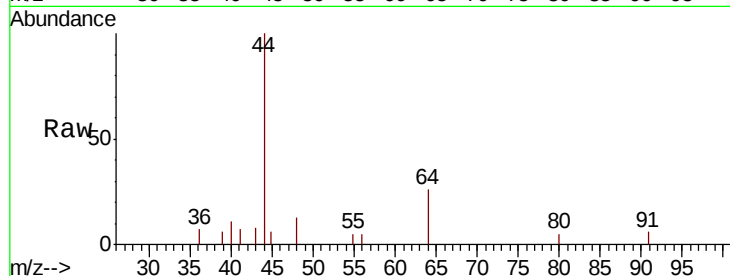
RE108D2-071718DL

Tgt Ion: 56 Resp: 21

Ion Ratio Lower Upper

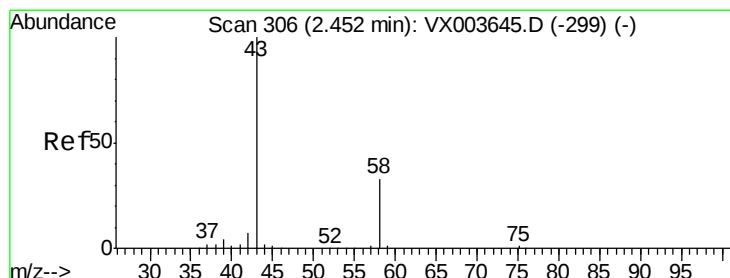
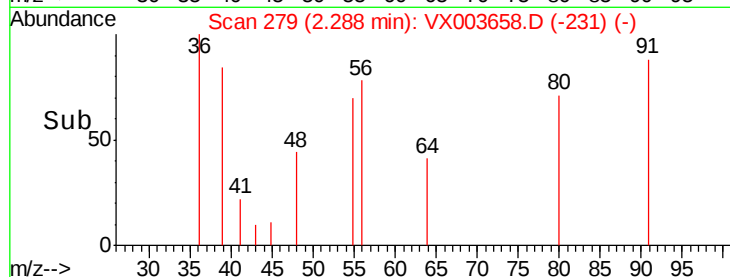
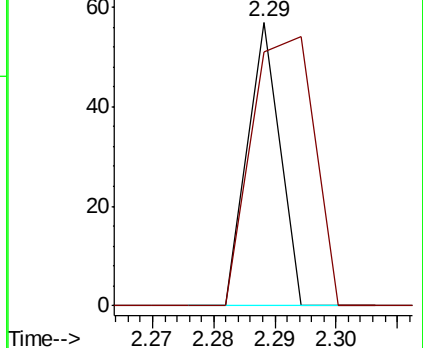
56 100

55 181.0 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.062 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003658.D

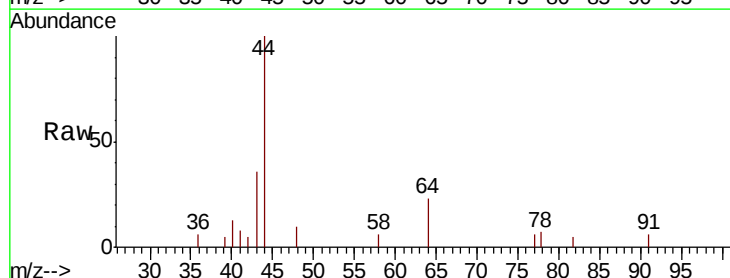
Acq: 25 Jul 2018 14:58

Tgt Ion: 43 Resp: 680

Ion Ratio Lower Upper

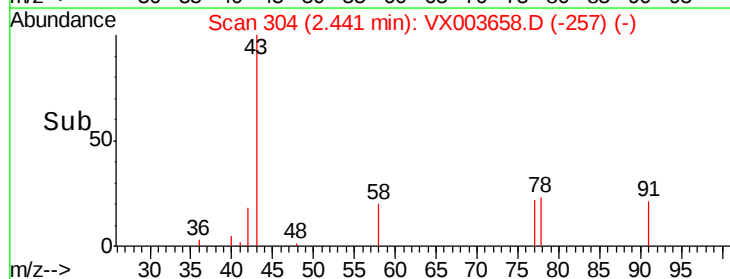
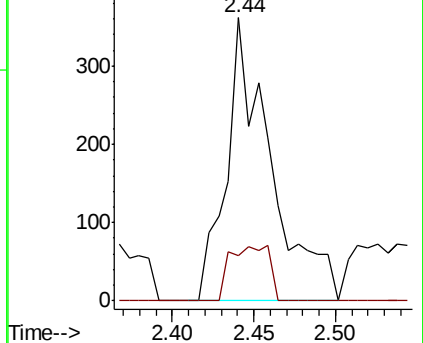
43 100

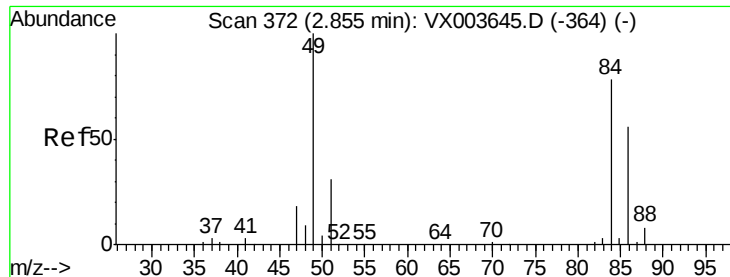
58 15.7 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

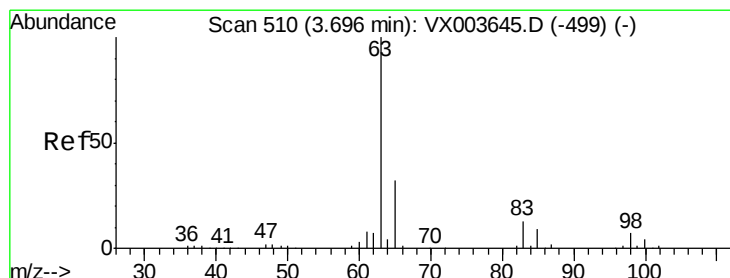
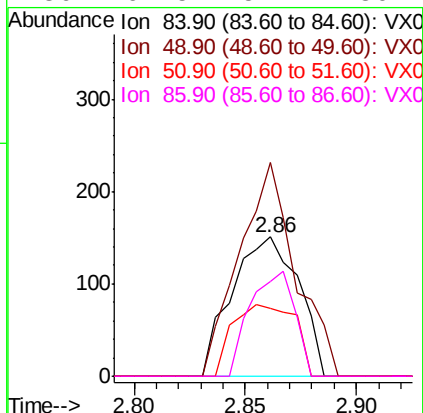
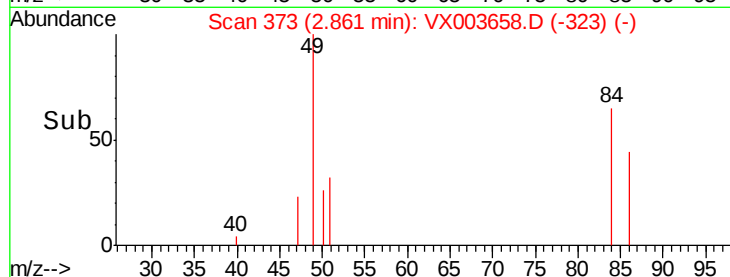
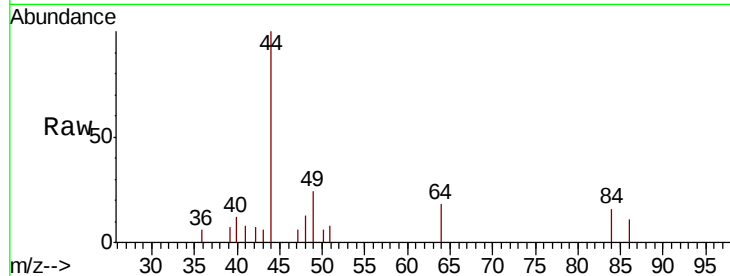




#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003658.D
Acq: 25 Jul 2018 14:58

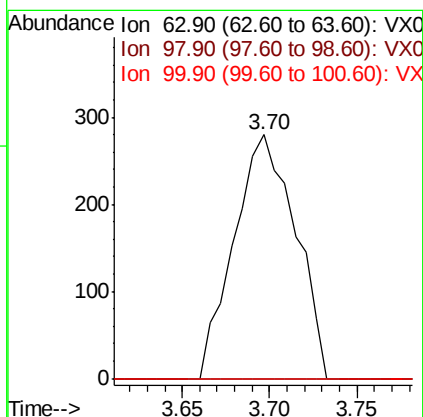
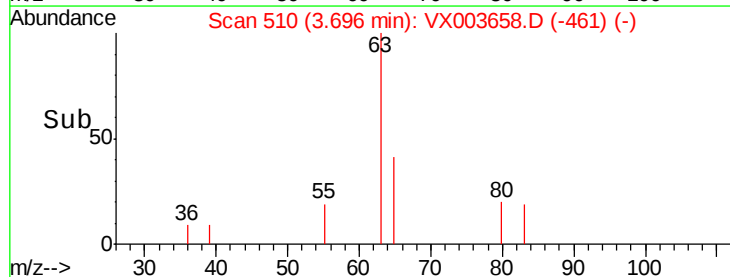
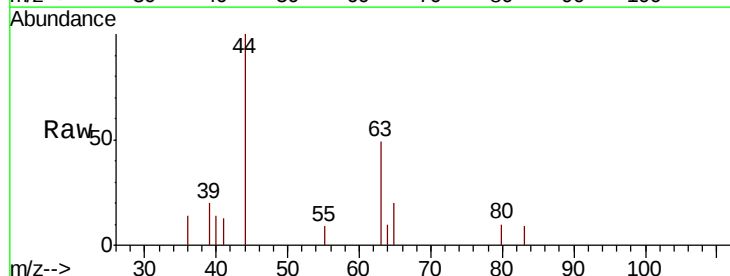
Instrument :
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RE108D2-071718DL

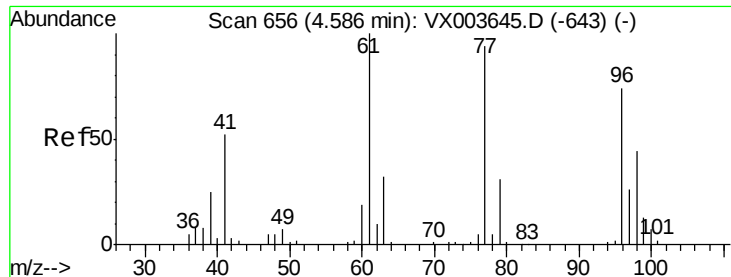
Tgt Ion: 84 Resp: 314
Ion Ratio Lower Upper
84 100
49 153.0 102.3 153.5
51 48.3 31.8 47.8#
86 67.5 57.4 86.2



#24
1,1-Dichloroethane
Concen: 0.300 ug/l
RT: 3.70 min Scan# 510
Delta R.T. 0.00 min
Lab File: VX003658.D
Acq: 25 Jul 2018 14:58

Tgt Ion: 63 Resp: 685
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.8#
100 0.0 2.1 6.3#

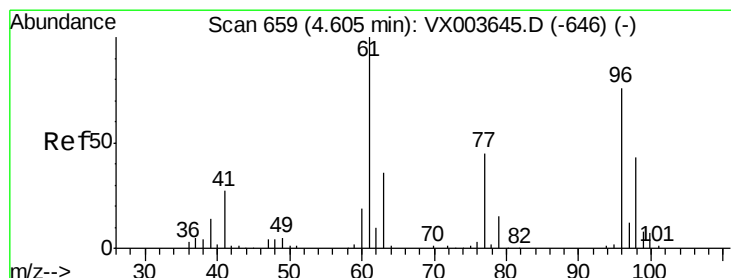
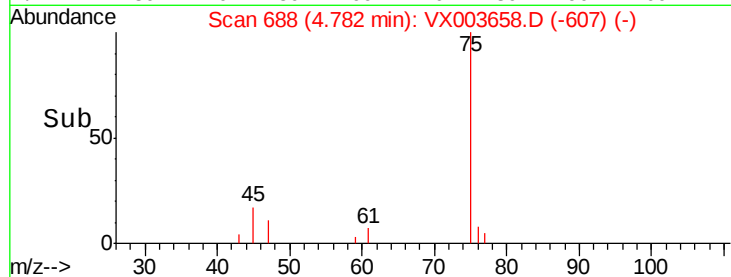
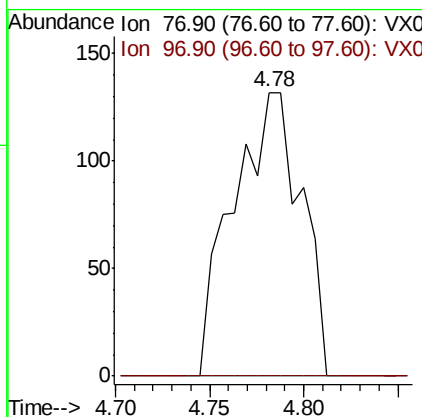
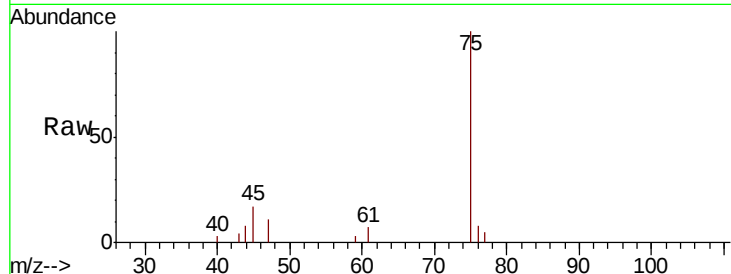




#26
 2,2-Dichloropropane
 Concen: 0.229 ug/l
 RT: 4.78 min Scan# 688
 Delta R.T. 0.20 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

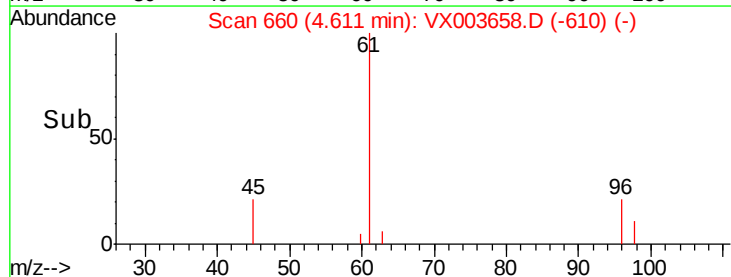
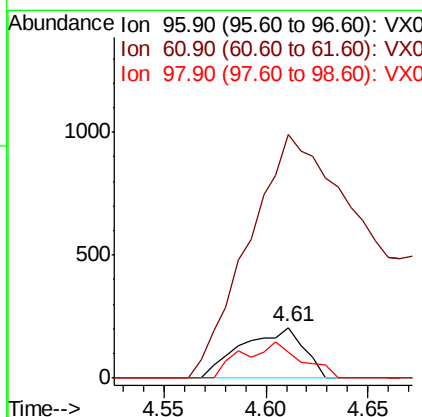
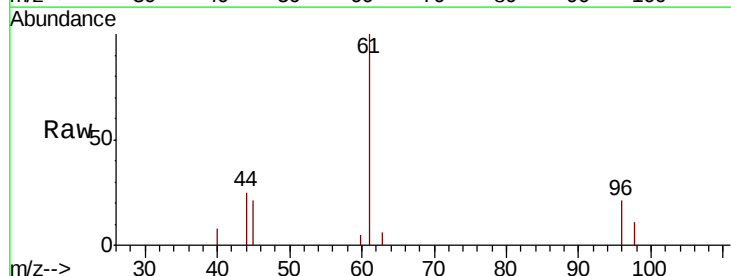
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

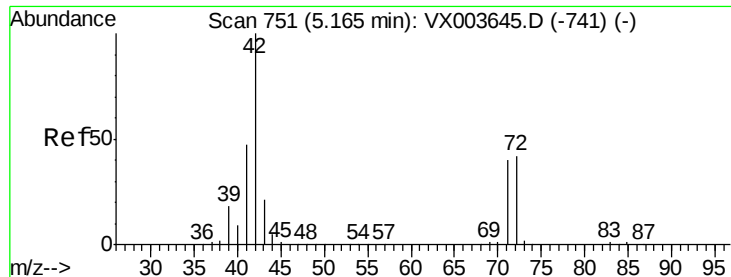
Tgt Ion: 77 Resp: 331
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.0 36.0#



#27
 cis-1,2-Dichloroethene
 Concen: 0.348 ug/l
 RT: 4.61 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Tgt Ion: 96 Resp: 432
 Ion Ratio Lower Upper
 96 100
 61 1139.4 0.0 313.6#
 98 67.6 0.0 125.6

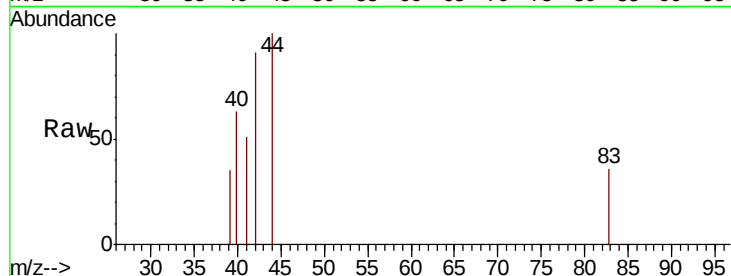




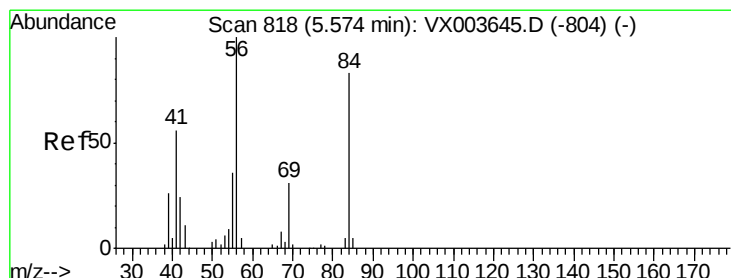
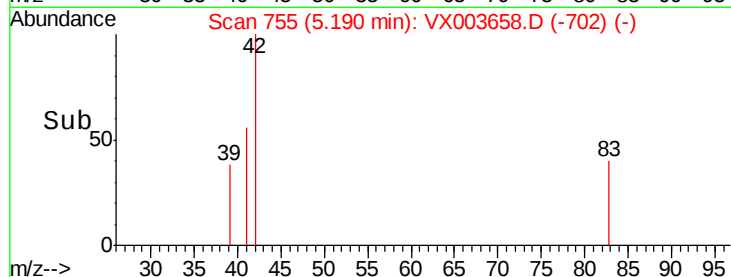
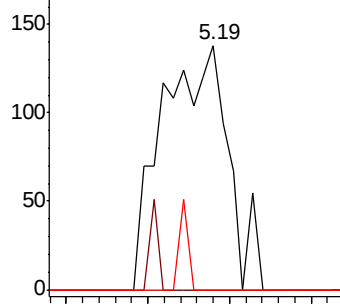
#29
Tetrahydrofuran
Concen: 0.606 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX003658.D
Acq: 25 Jul 2018 14:58

Instrument :
MSVOA_X
ClientSampleID :
RE108D2-071718DL

Tgt Ion: 42 Resp: 390
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 4.9 31.0 46.6#

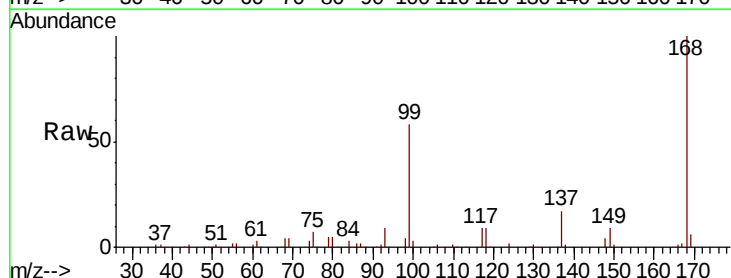


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

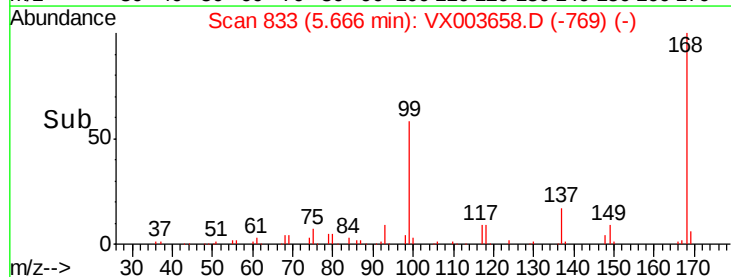
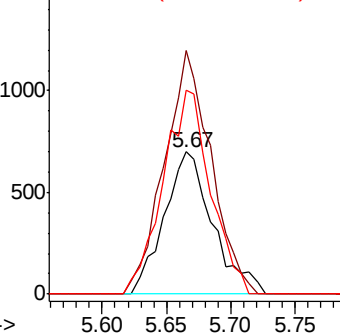


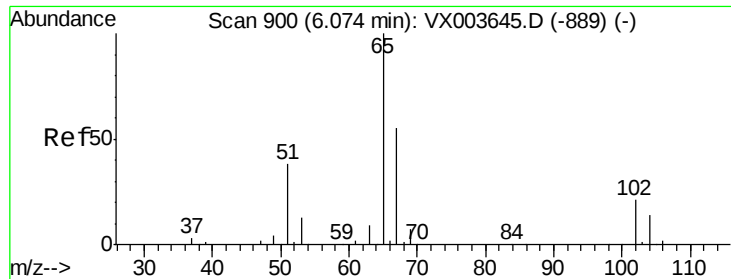
#31
Cyclohexane
Concen: 0.994 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX003658.D
Acq: 25 Jul 2018 14:58

Tgt Ion: 56 Resp: 1821
Ion Ratio Lower Upper
56 100
69 171.2 25.0 37.6#
84 143.3 66.5 99.7#



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

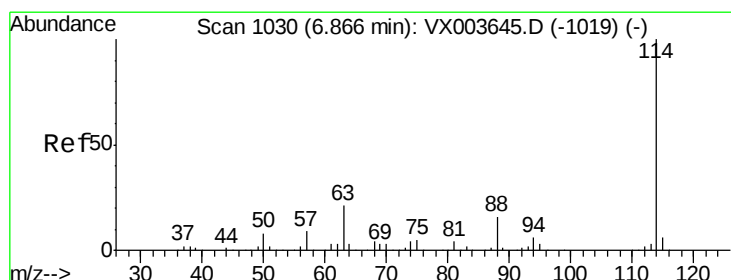
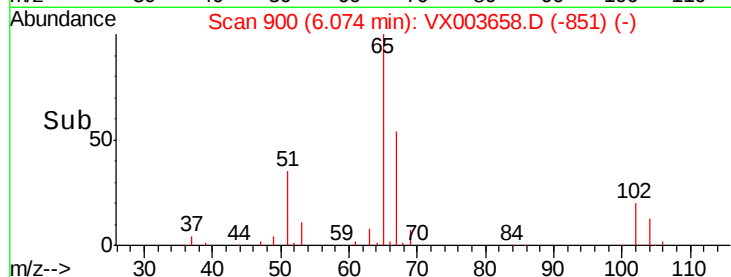
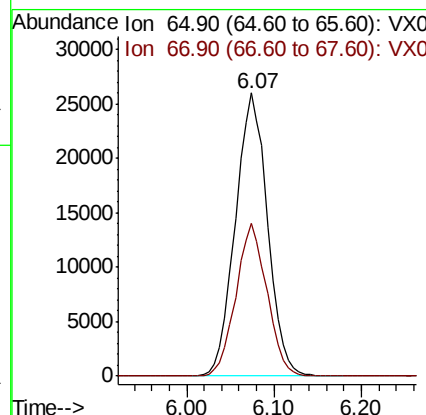
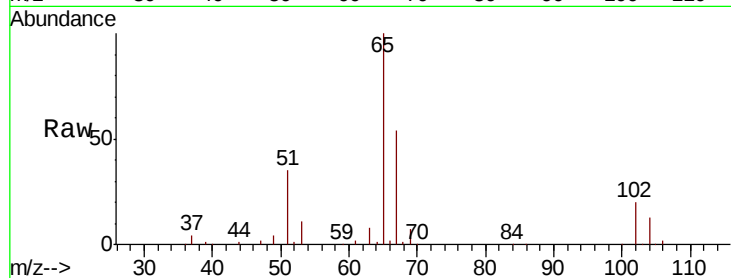




#33
 1,2-Dichloroethane-d4
 Concen: 48.775 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

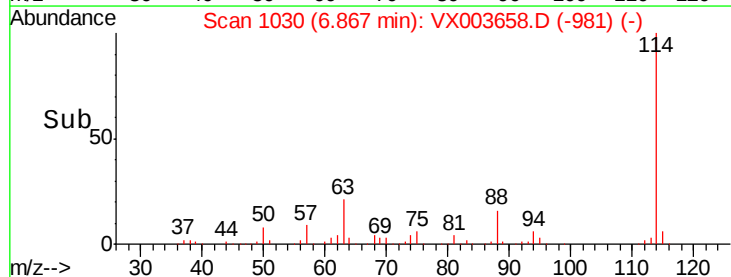
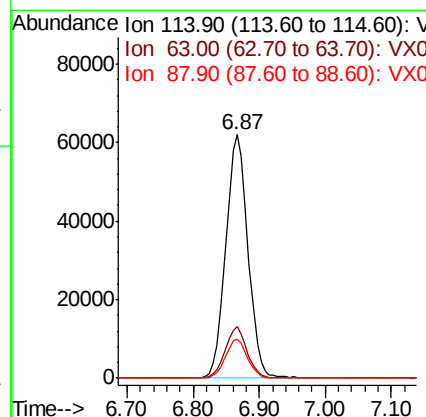
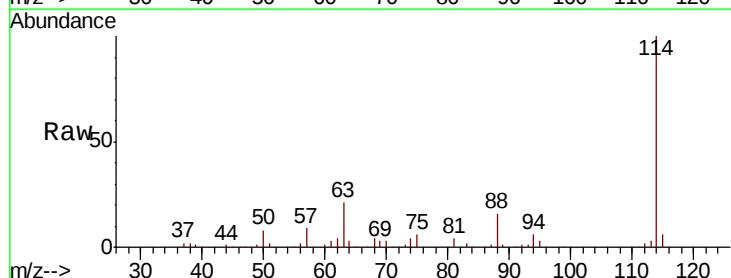
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

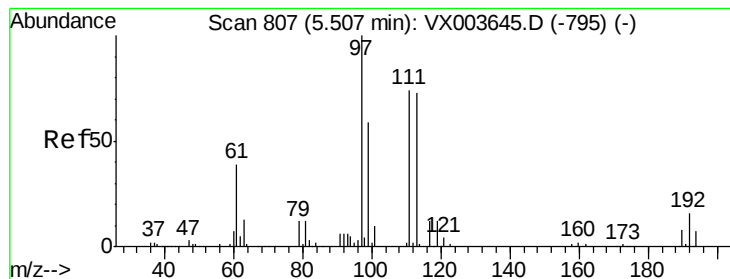
Tgt Ion: 65 Resp: 66461
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Tgt Ion: 114 Resp: 143810
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 41.0
 88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 45.829 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-071718DL

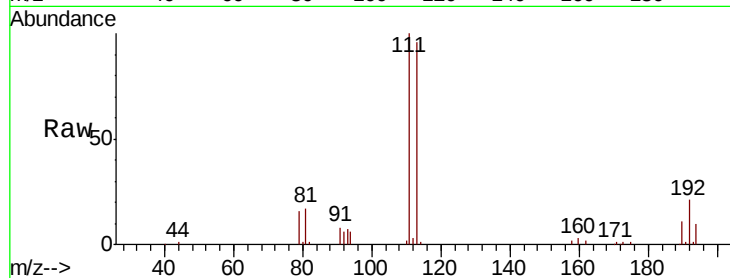
Tgt Ion:113 Resp: 53878

Ion Ratio Lower Upper

113 100

111 102.6 81.2 121.8

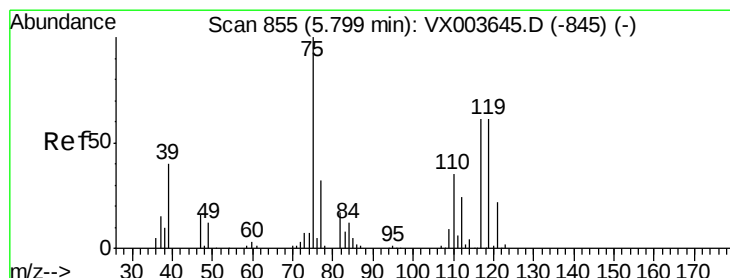
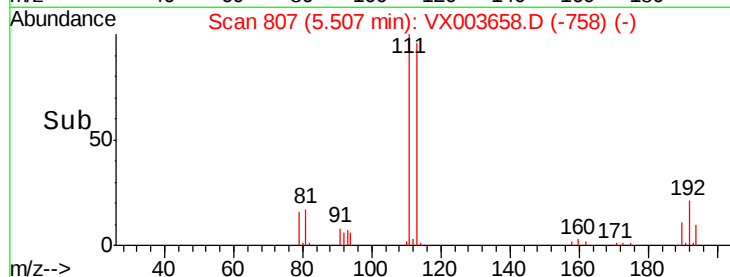
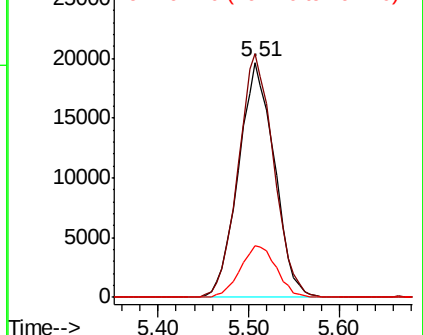
192 22.1 18.2 27.4



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: 3.856 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

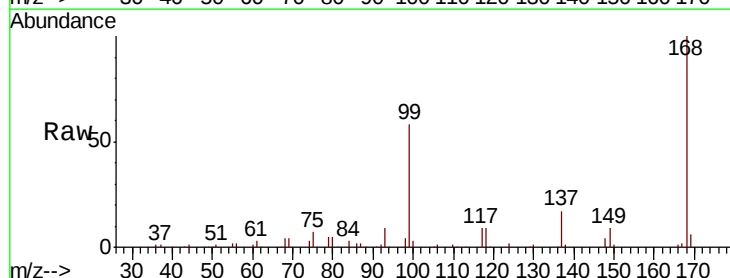
Tgt Ion: 75 Resp: 6482

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

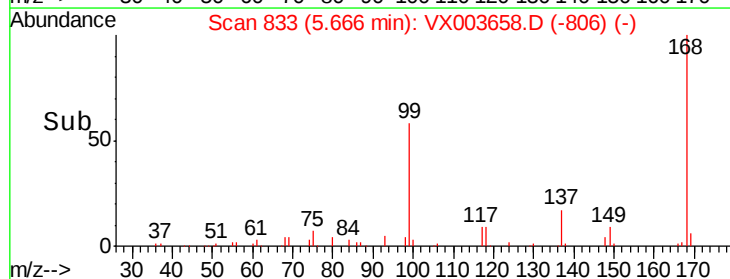
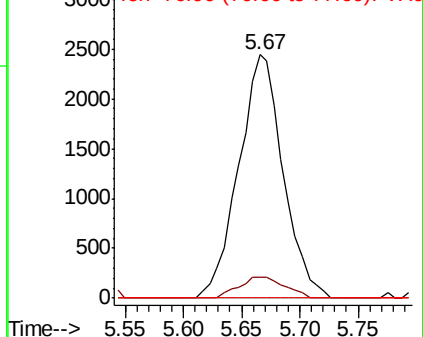
77 0.0 25.1 37.7#

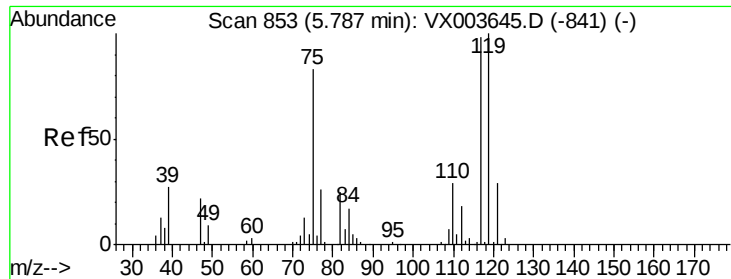


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

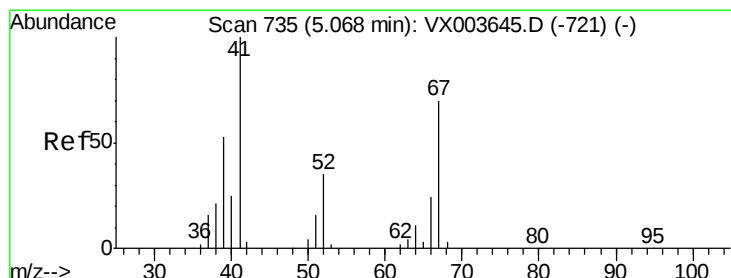
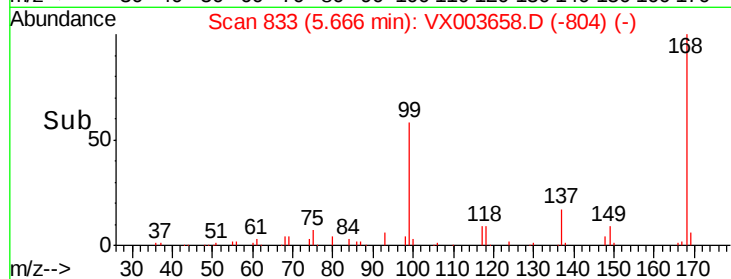
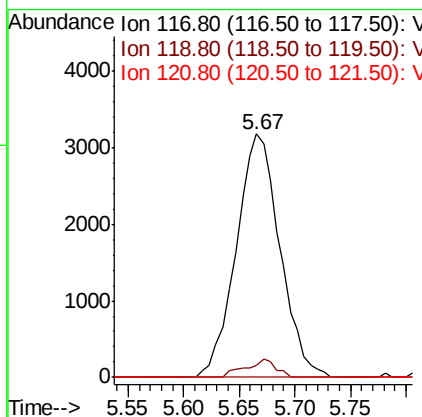
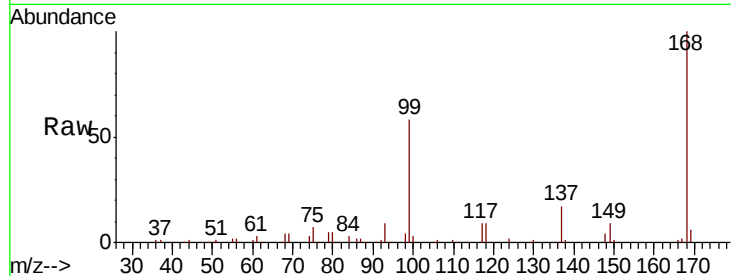




#38
 Carbon Tetrachloride
 Concen: 5.344 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

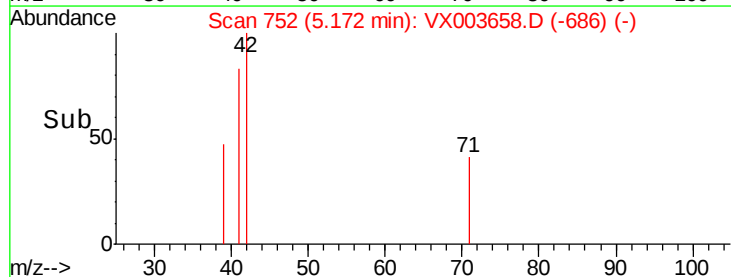
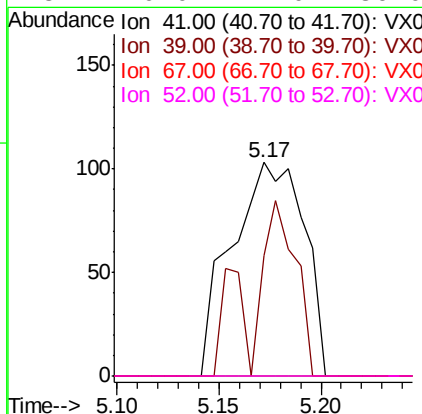
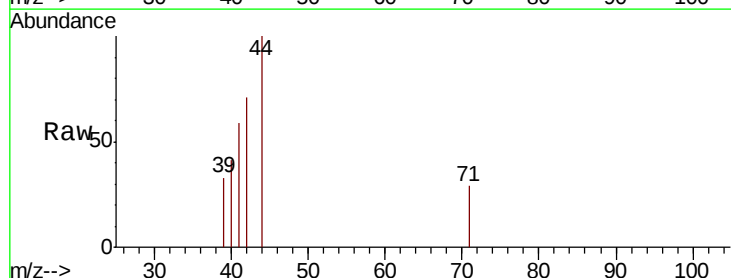
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

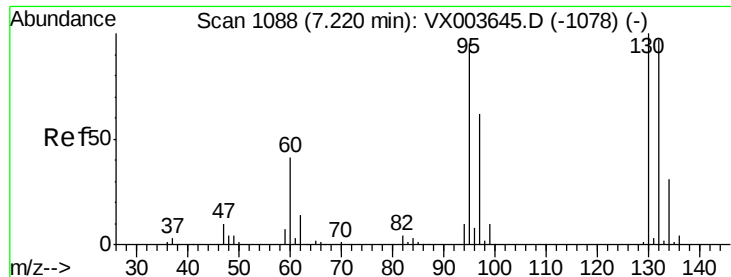
Tgt Ion: 117 Resp: 8658
 Ion Ratio Lower Upper
 117 100
 119 4.8 81.0 121.4#
 121 0.0 23.7 35.5#



#41
 Methacrylonitrile
 Concen: 0.229 ug/l
 RT: 5.17 min Scan# 752
 Delta R.T. 0.10 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Tgt Ion: 41 Resp: 256
 Ion Ratio Lower Upper
 41 100
 39 36.7 42.2 63.4#
 67 0.0 56.6 84.8#
 52 0.0 24.0 36.0#





#44

Trichloroethene

Concen: 74.758 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX003658.D

Acq: 25 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

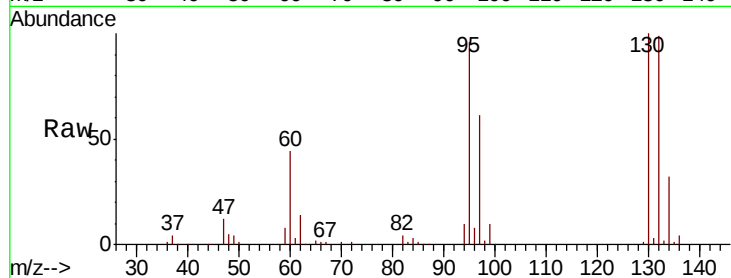
RE108D2-071718DL

Tgt Ion:130 Resp: 99707

Ion Ratio Lower Upper

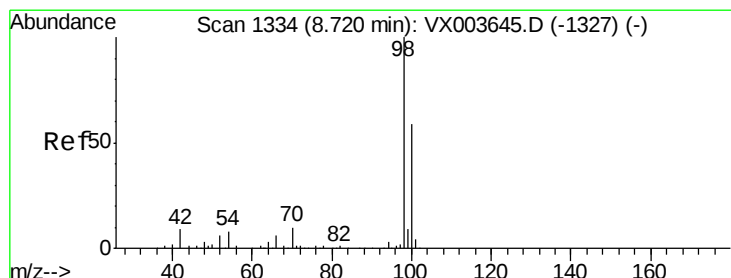
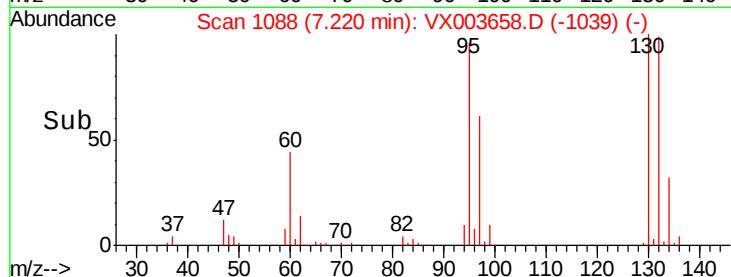
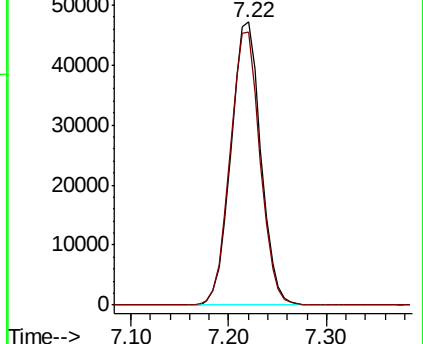
130 100

95 96.3 0.0 190.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 45.266 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003658.D

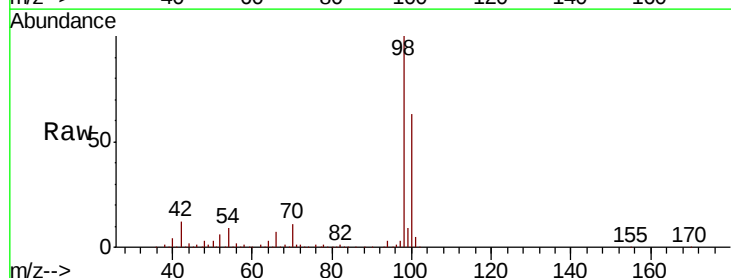
Acq: 25 Jul 2018 14:58

Tgt Ion: 98 Resp: 203091

Ion Ratio Lower Upper

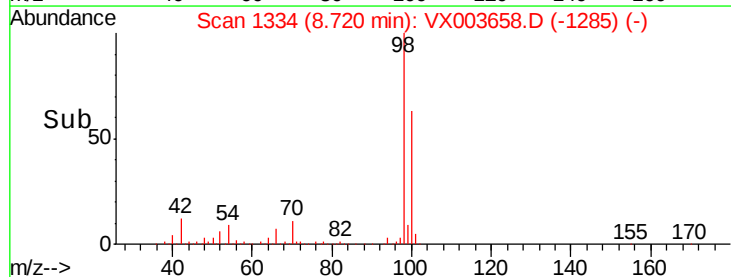
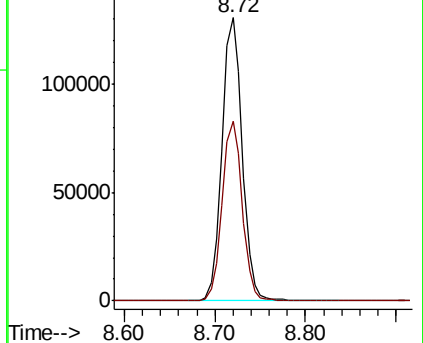
98 100

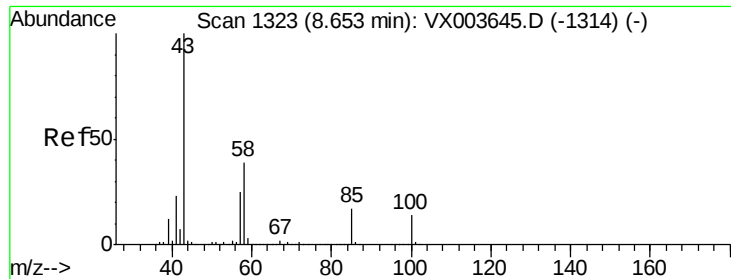
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

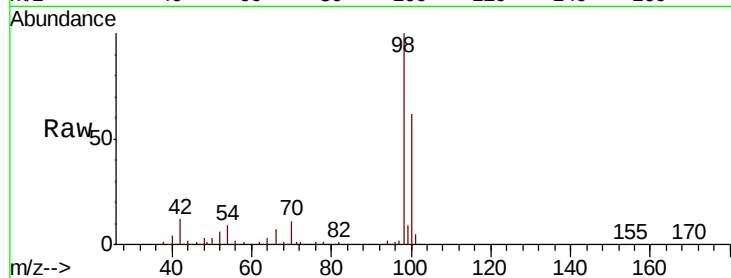




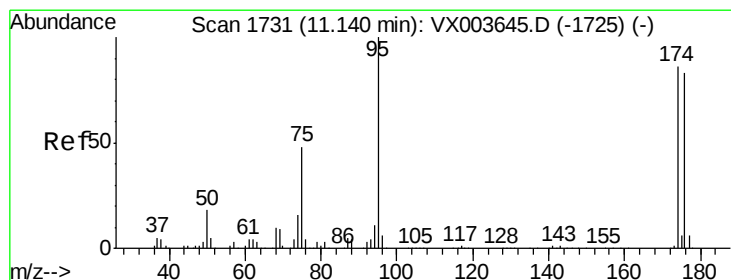
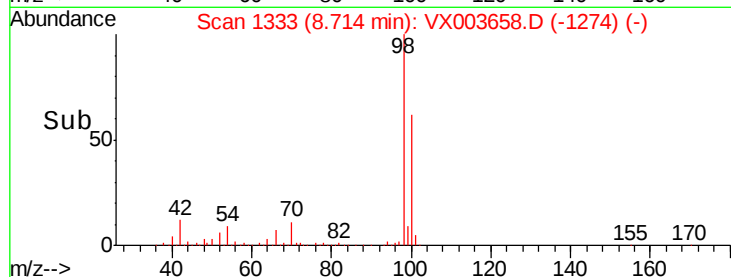
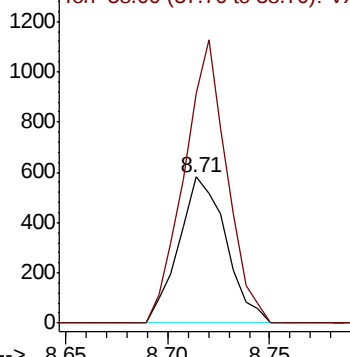
#51
 4-Methyl-2-Pentanone
 Concen: 0.471 ug/l
 RT: 8.71 min Scan# 1333
 Delta R.T. 0.06 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

Tgt Ion: 43 Resp: 938
 Ion Ratio Lower Upper
 43 100
 58 174.7 31.5 47.3#

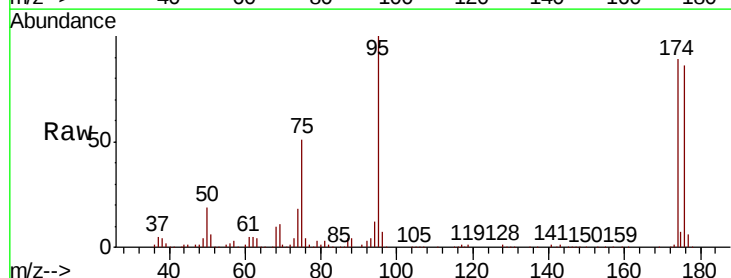


Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

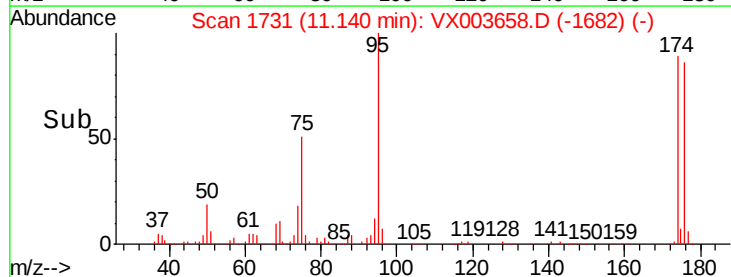
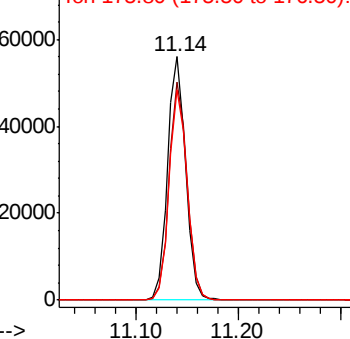


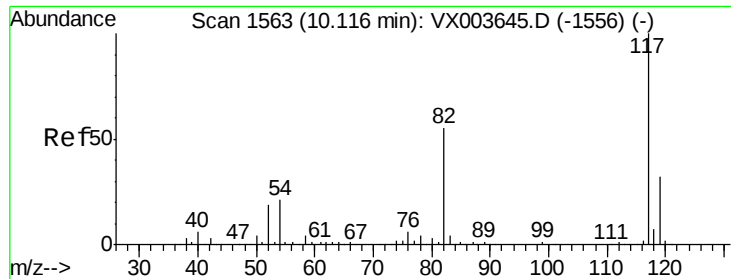
#62
 4-Bromofluorobenzene
 Concen: 42.458 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Tgt Ion: 95 Resp: 69480
 Ion Ratio Lower Upper
 95 100
 174 88.6 0.0 179.0
 176 85.9 0.0 173.0



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

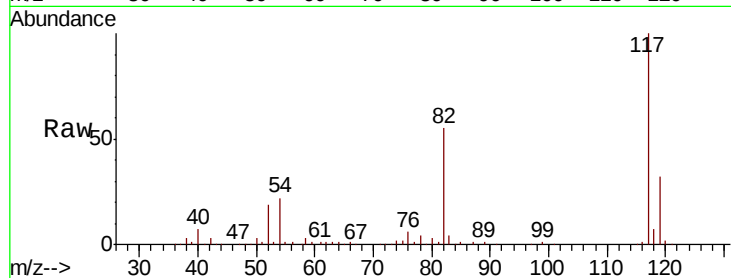




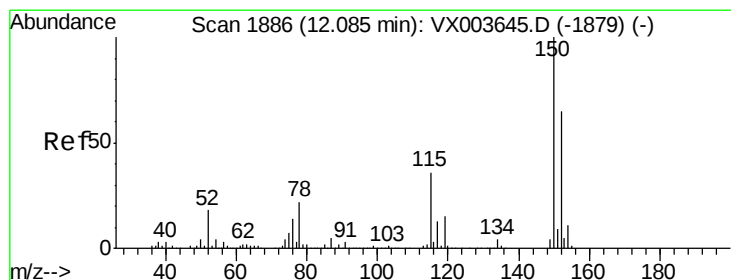
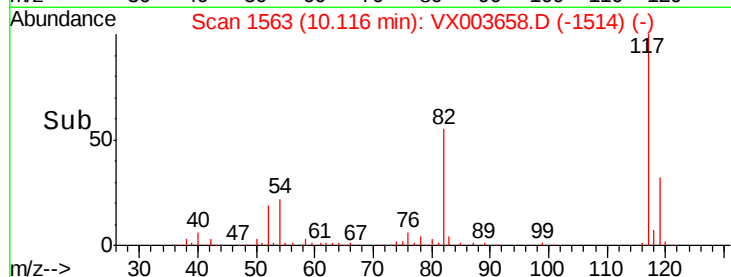
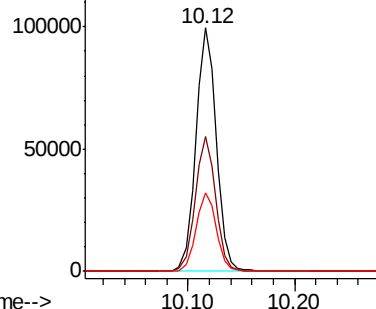
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003658.D
Acq: 25 Jul 2018 14:58

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-071718DL

Tgt Ion:117 Resp: 133384
Ion Ratio Lower Upper
117 100
82 55.3 44.3 66.5
119 32.5 25.6 38.4

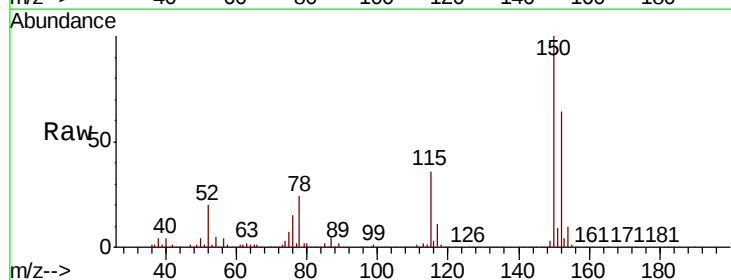


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

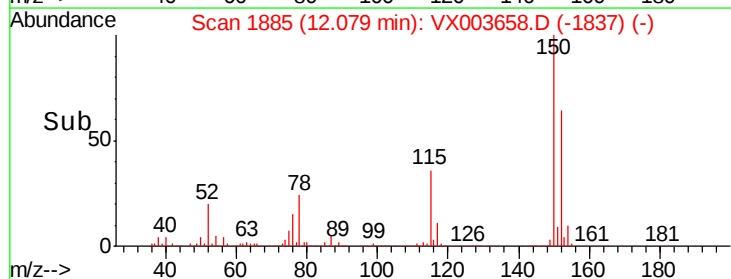
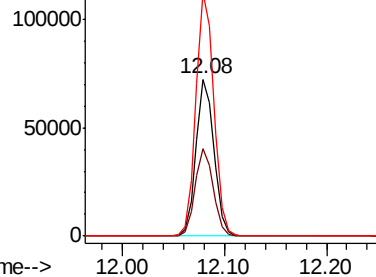


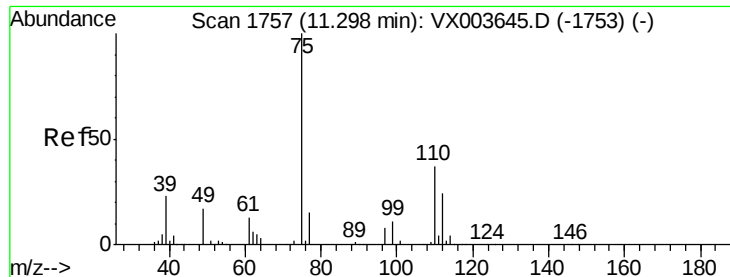
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX003658.D
Acq: 25 Jul 2018 14:58

Tgt Ion:152 Resp: 88213
Ion Ratio Lower Upper
152 100
115 56.0 40.0 119.9
150 155.3 0.0 348.4



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

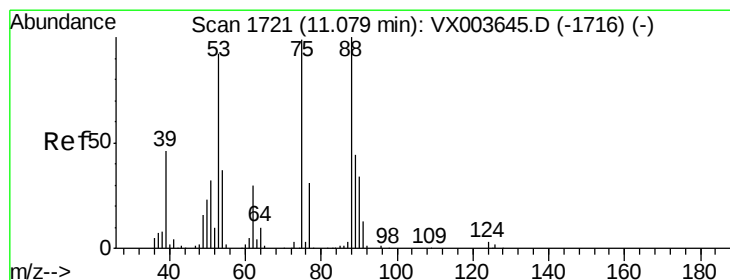
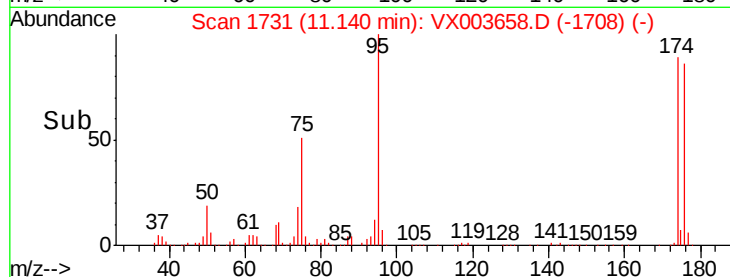
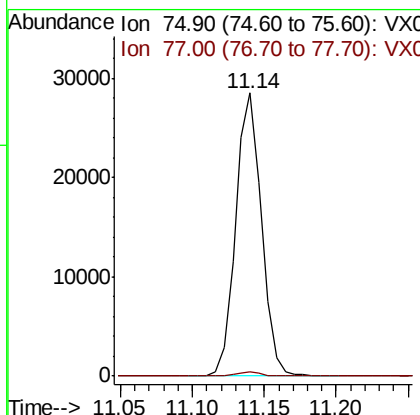
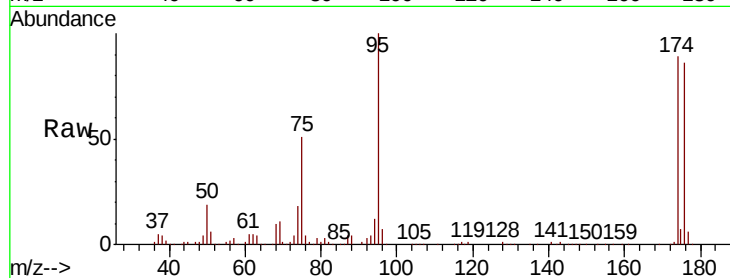




#76
 1,2,3-Trichloropropane
 Concen: 19.252 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

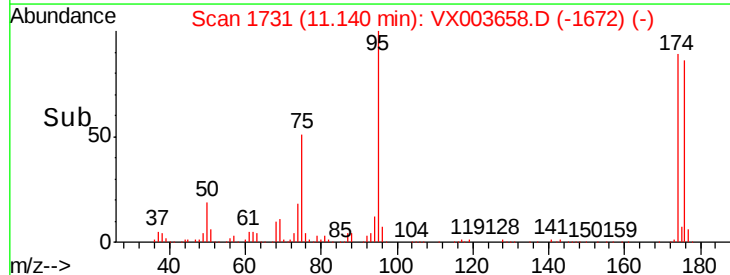
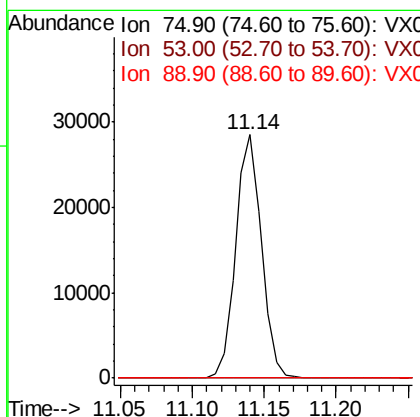
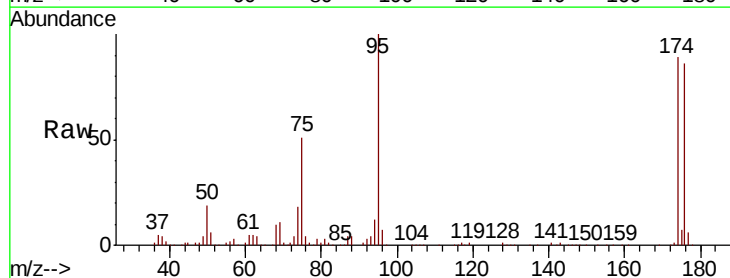
Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

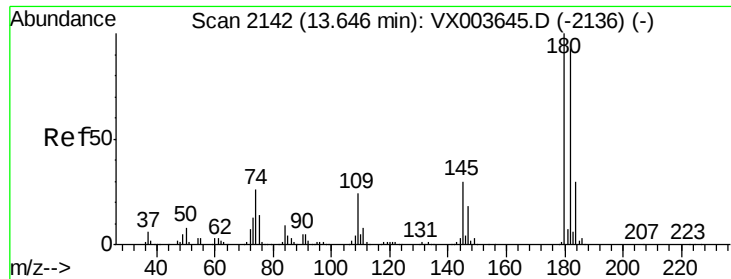
Tgt Ion: 75 Resp: 35621
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.6 64.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.648 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Tgt Ion: 75 Resp: 35621
 Ion Ratio Lower Upper
 75 100
 53 0.1 77.8 116.8#
 89 0.0 36.6 54.8#





#93
 1,2,4-Trichlorobenzene
 Concen: 0.215 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VX003658.D
 Acq: 25 Jul 2018 14:58

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-071718DL

Tgt Ion:180 Resp: 477
 Ion Ratio Lower Upper
 180 100
 182 107.8 47.9 143.8
 145 42.6 14.4 43.2

