

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006734.D
 Acq On : 21 Dec 2018 19:57
 Operator : JC/MD
 Sample : J6519-12DL 25X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-122018-02DL

Quant Time: Dec 22 04:07:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	627031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	972505	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	866463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	396981	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	335986	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
35) Dibromofluoromethane	5.51	113	291018	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
50) Toluene-d8	8.71	98	1146485	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.14	95	396597	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	

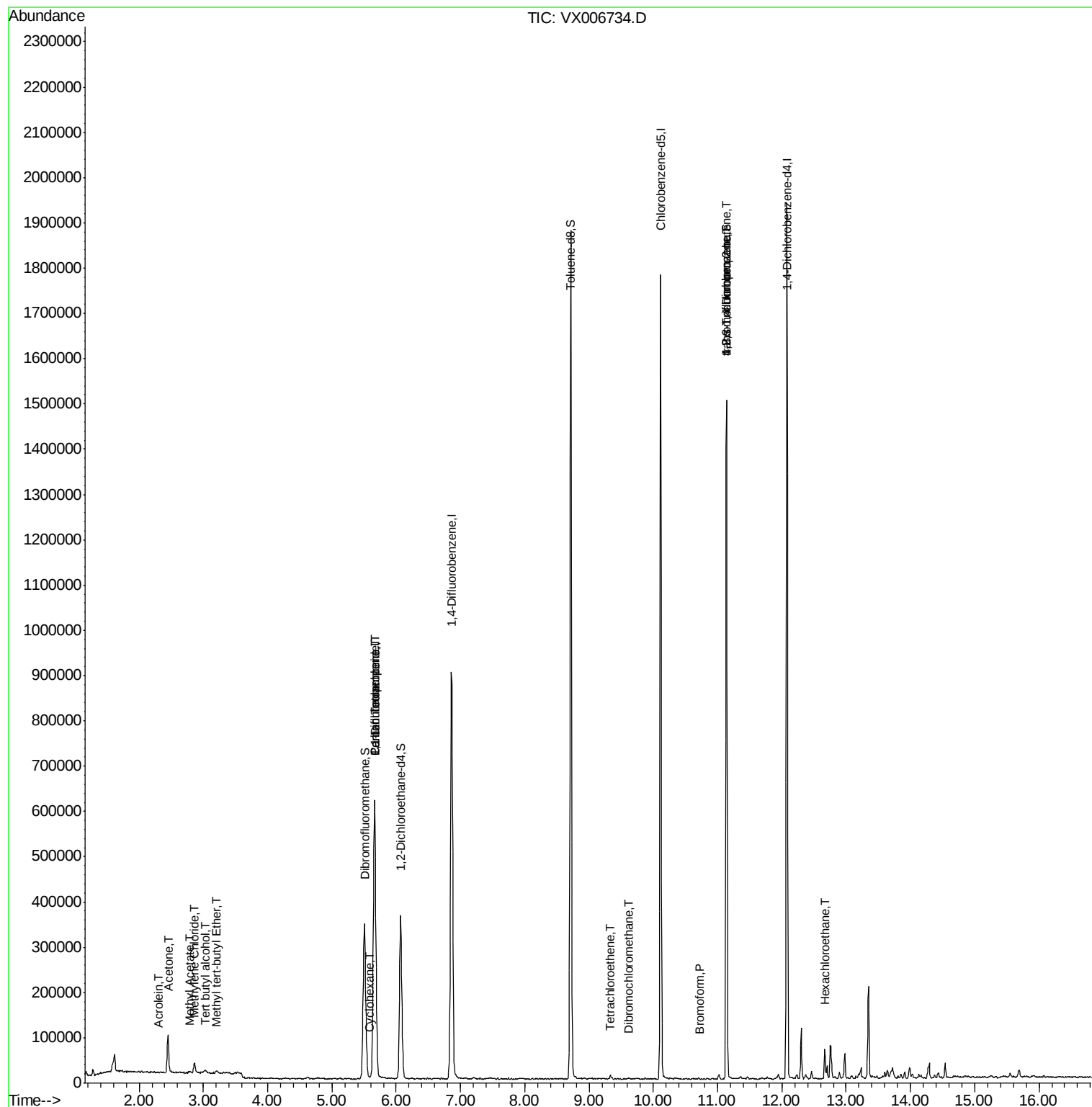
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	226	Below Cal	#	33
11) Tert butyl alcohol	3.02	59	4616	3.061	ug/l #	72
13) Acrolein	2.31	56	214	0.210	ug/l #	57
16) Acetone	2.45	43	95543	30.773	ug/l	96
18) Methyl Acetate	2.79	43	4608	0.505	ug/l #	78
19) Methyl tert-butyl Ether	3.20	73	3971	0.214	ug/l #	82
20) Methylene Chloride	2.86	84	10931	1.703	ug/l	95
28) Bromochloromethane	5.01	49	180	Below Cal	#	80
31) Cyclohexane	5.59	56	1965	0.210	ug/l #	55
36) 1,1-Dichloropropene	5.66	75	40277	5.001	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58605	7.487	ug/l #	14
49) 1,4-Dioxane	7.75	88	206	Below Cal	#	1
60) Dibromochloromethane	9.63	129	173	2.349	ug/l #	10
64) Tetrachloroethene	9.34	164	1651	0.241	ug/l #	77
71) Bromoform	10.72	173	85	4.475	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	184399	24.995	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	184399	73.859	ug/l #	10
90) Hexachloroethane	12.67	117	2688	3.958	ug/l #	6

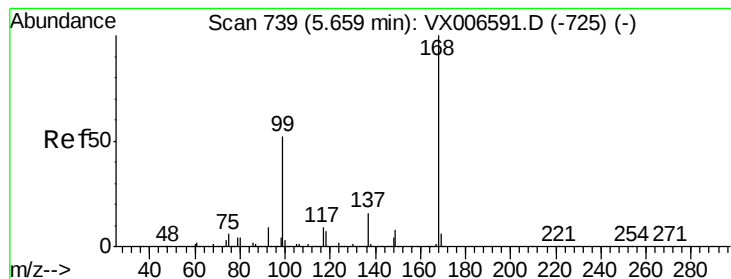
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

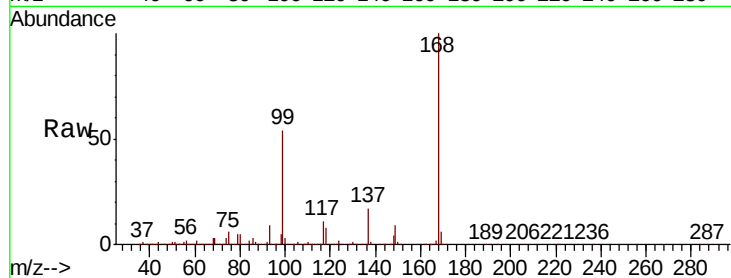
DUP-122018-02DL

Tot Ion:168 Resp: 627031

Ion Ratio Lower Upper

168 100

99 53.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

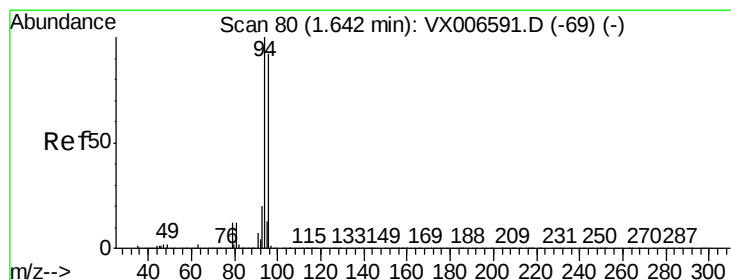
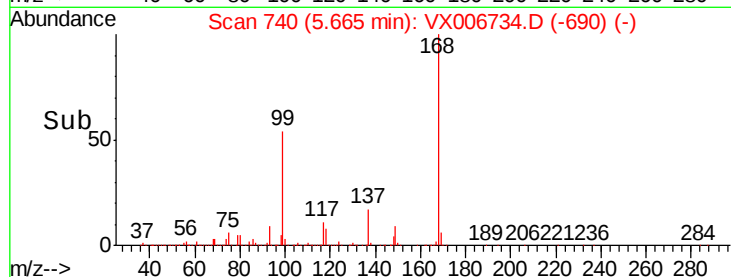
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 77

Delta R.T. -0.02 min

Lab File: VX006734.D

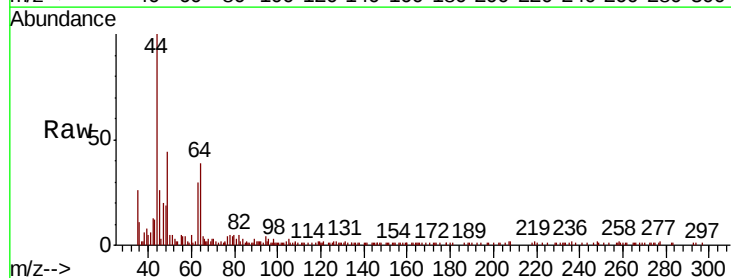
Acq: 21 Dec 2018 19:57

Tgt Ion: 94 Resp: 226

Ion Ratio Lower Upper

94 100

96 27.8 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

500

400

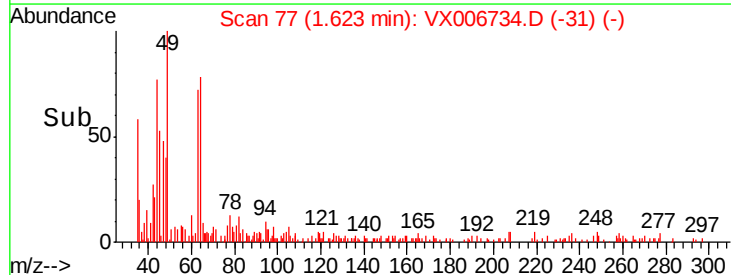
300

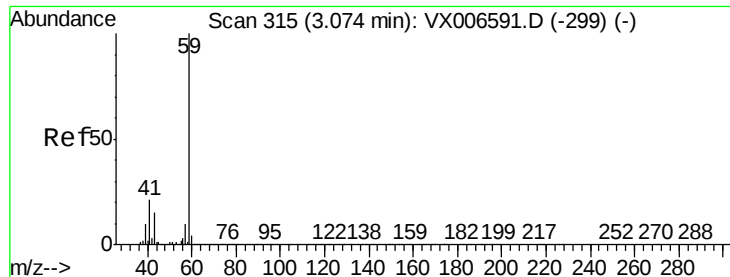
200

100

0

Time-->



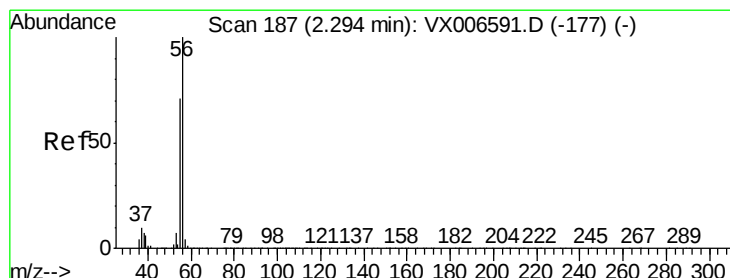
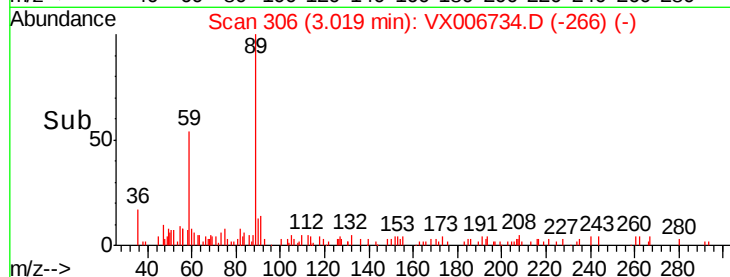
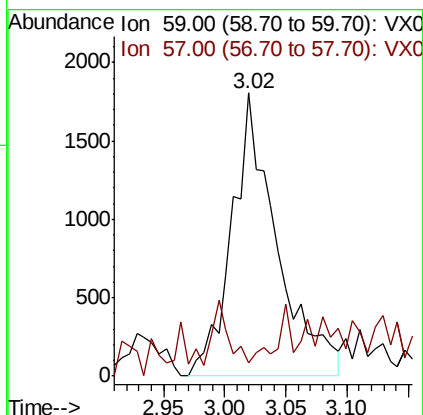
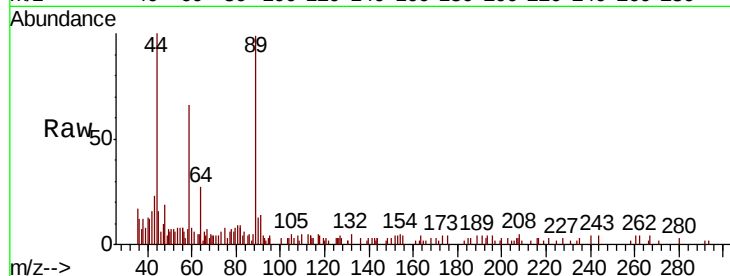


#11

Tert butyl alcohol
Concen: 3.061 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX006734.D
Acq: 21 Dec 2018 19:57

Instrument :
MSVOA_X
ClientSampleId :
DUP-122018-02DL

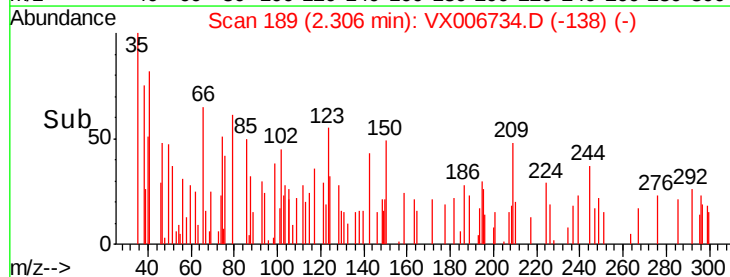
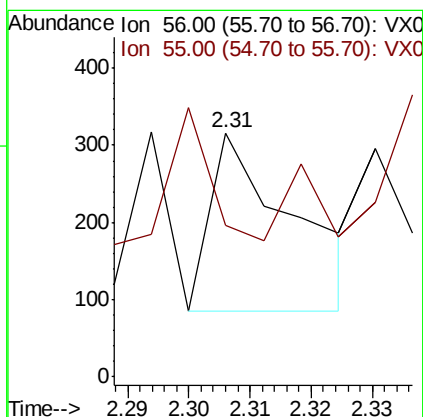
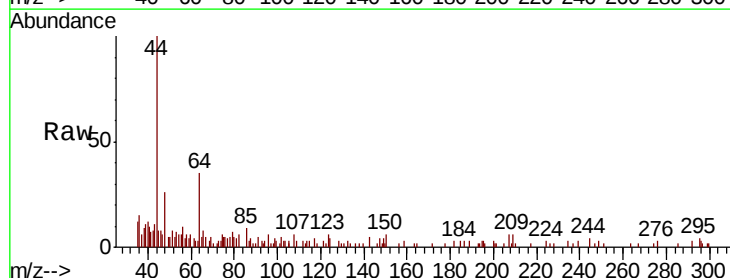
Tot Ion: 59 Resp: 4616
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

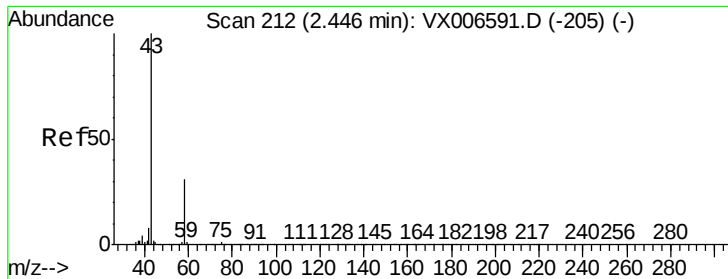


#13

Acrolein
Concen: 0.210 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX006734.D
Acq: 21 Dec 2018 19:57

Tgt Ion: 56 Resp: 214
Ion Ratio Lower Upper
56 100
55 36.9 58.2 87.4#

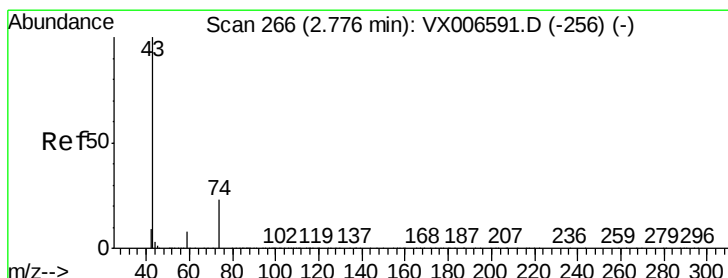
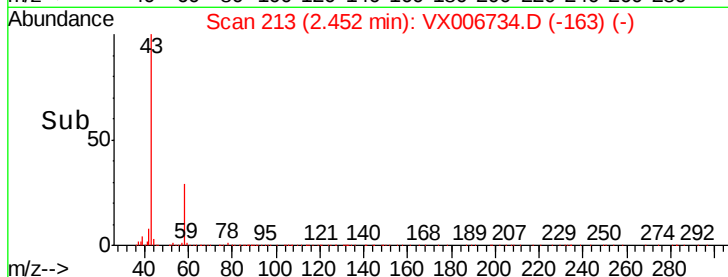
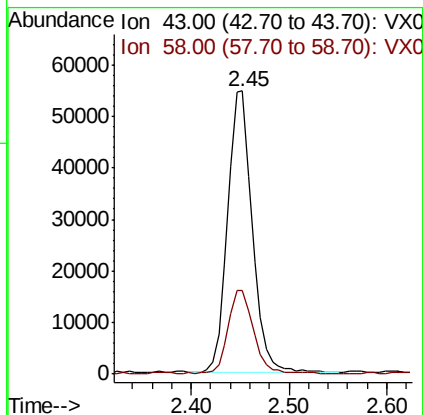
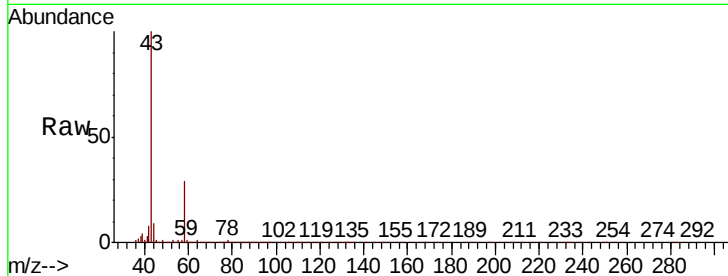




#16
Acetone
Concen: 30.773 ug/l
RT: 2.45 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX006734.D
Acq: 21 Dec 2018 19:57

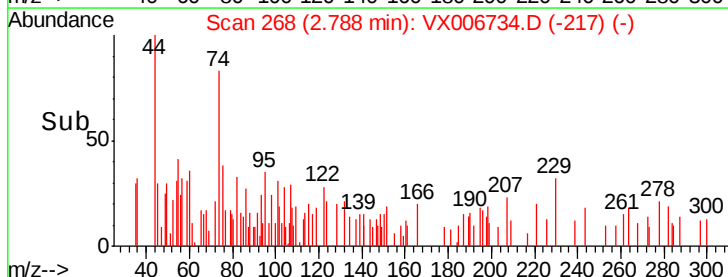
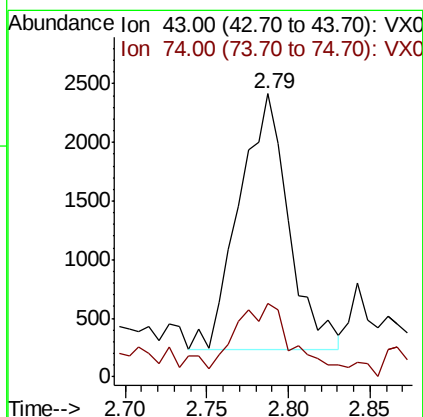
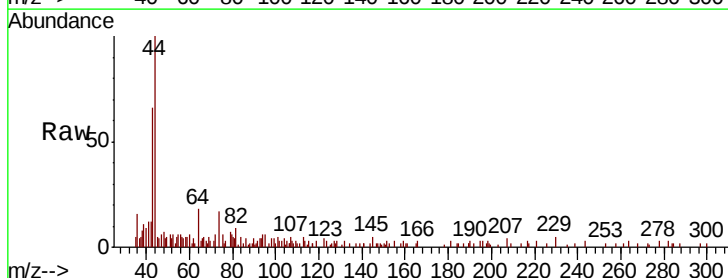
Instrument :
MSVOA_X
ClientSampleId :
DUP-122018-02DL

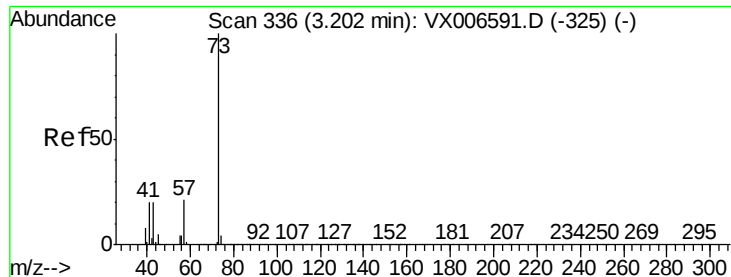
Tot Ion: 43 Resp: 95543
Ion Ratio Lower Upper
43 100
58 29.3 25.0 37.6



#18
Methyl Acetate
Concen: 0.505 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX006734.D
Acq: 21 Dec 2018 19:57

Tgt Ion: 43 Resp: 4608
Ion Ratio Lower Upper
43 100
74 34.3 18.6 28.0#



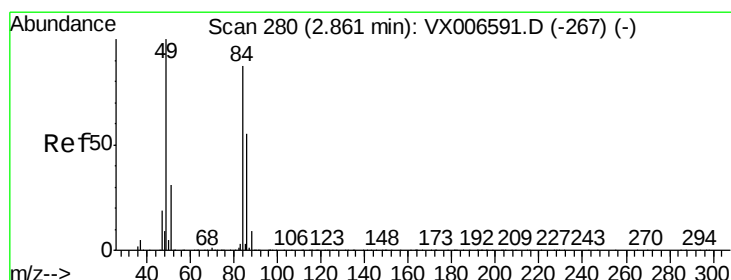
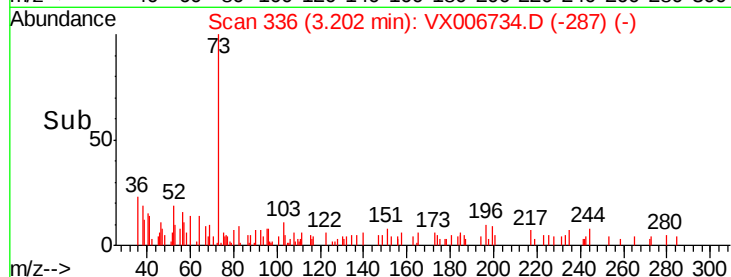
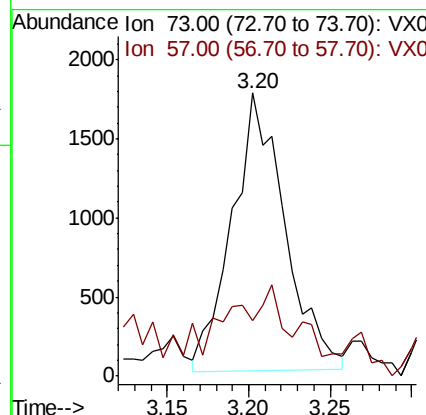
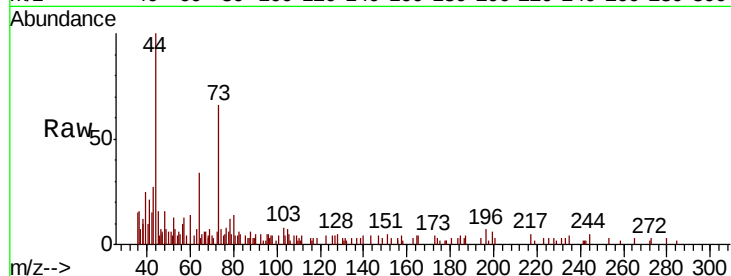


#19

Methyl tert-butyl Ether
 Concen: 0.214 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX006734.D
 Acq: 21 Dec 2018 19:57

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-122018-02DL

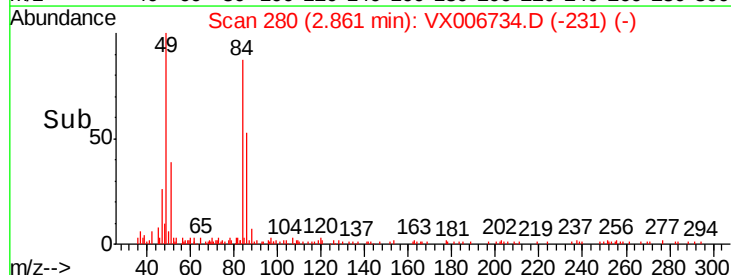
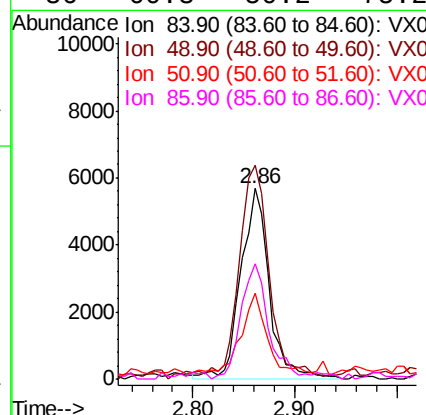
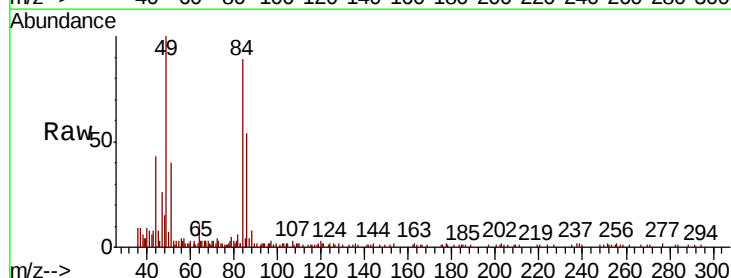
Tot Ion: 73 Resp: 3971
 Ion Ratio Lower Upper
 73 100
 57 12.5 16.8 25.2#

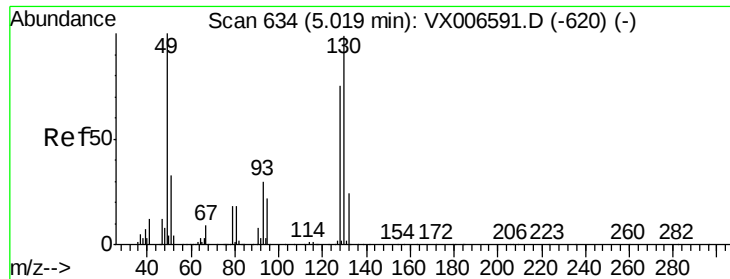


#20

Methylene Chloride
 Concen: 1.703 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. -0.00 min
 Lab File: VX006734.D
 Acq: 21 Dec 2018 19:57

Tgt Ion: 84 Resp: 10931
 Ion Ratio Lower Upper
 84 100
 49 109.8 91.8 137.6
 51 40.7 28.5 42.7
 86 60.3 50.2 75.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

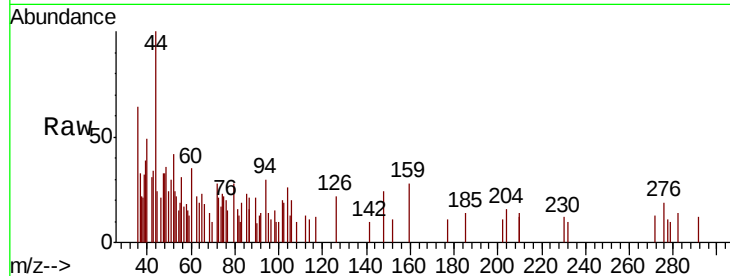
Tot Ion: 49 Resp: 180

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

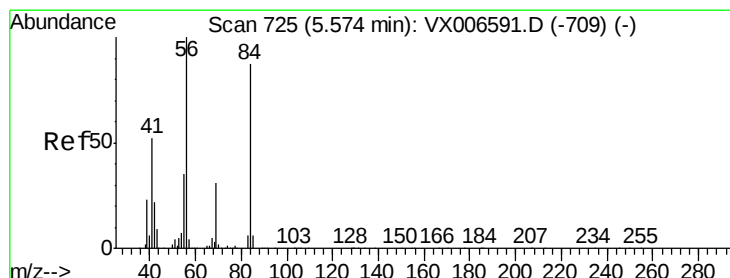
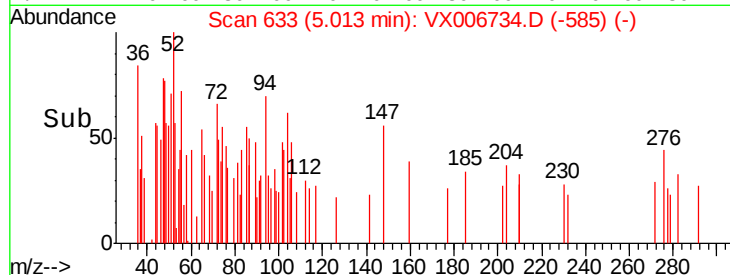
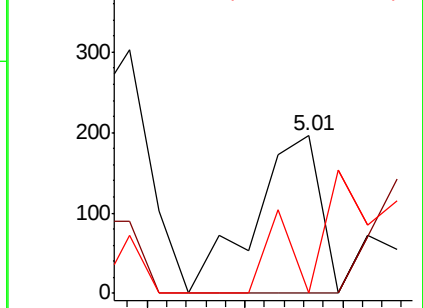
130 116.7 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.210 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

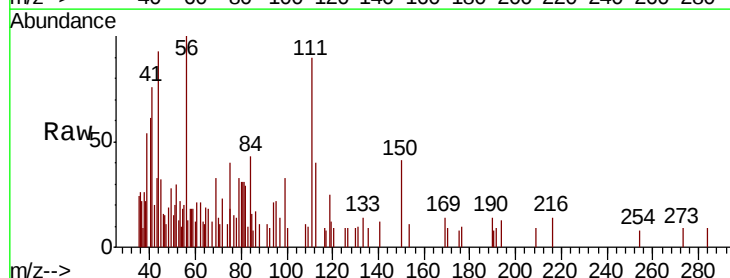
Tgt Ion: 56 Resp: 1965

Ion Ratio Lower Upper

56 100

69 33.4 24.4 36.6

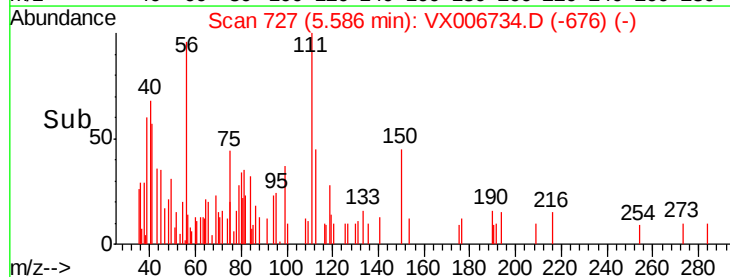
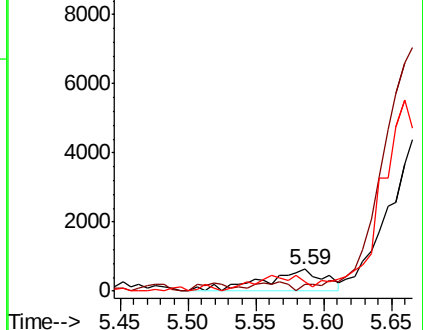
84 32.7 70.0 105.0#

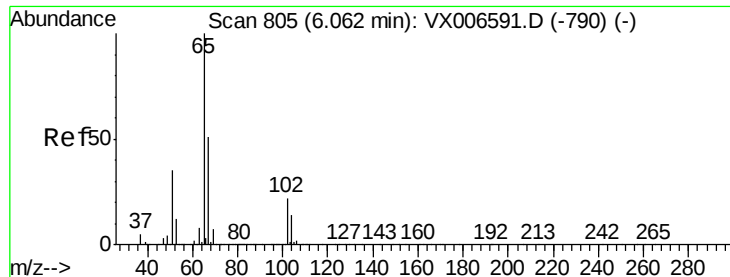


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.718 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

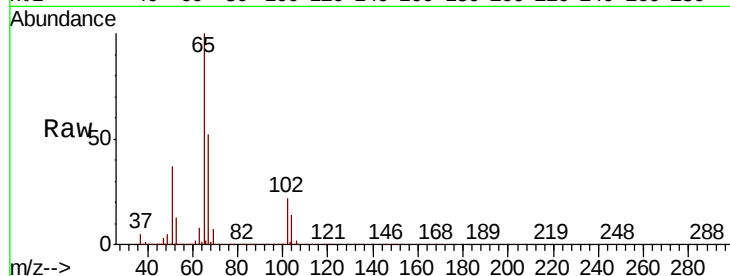
DUP-122018-02DL

Tot Ion: 65 Resp: 335986

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

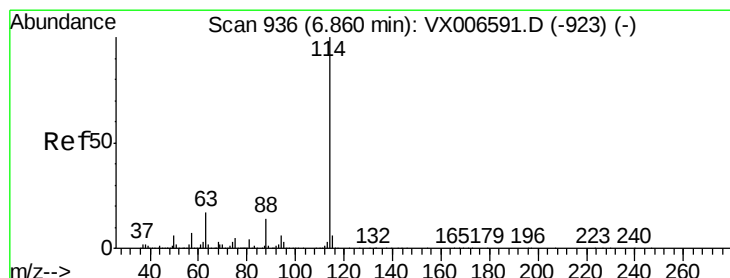
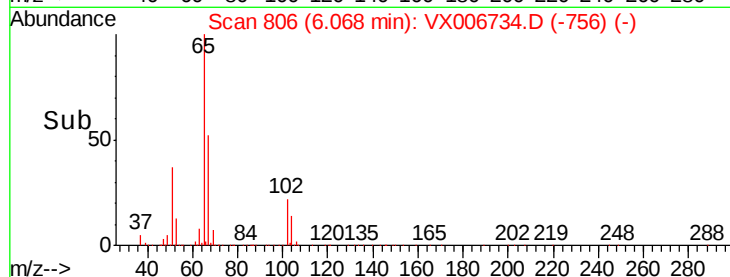
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

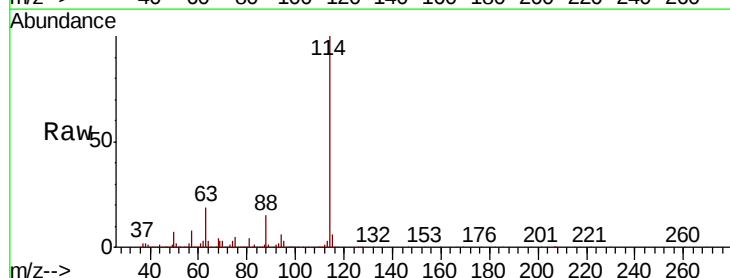
Tgt Ion: 114 Resp: 972505

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.8

88 14.9 0.0 28.8



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

6.86

500000

400000

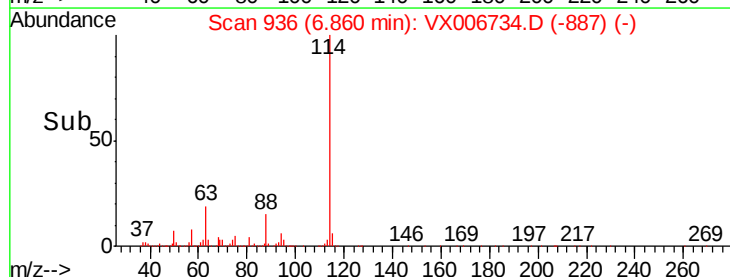
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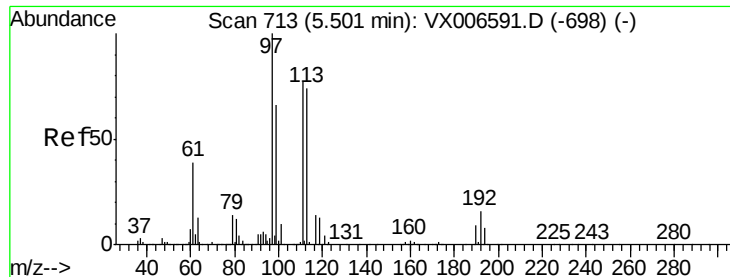
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.320 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

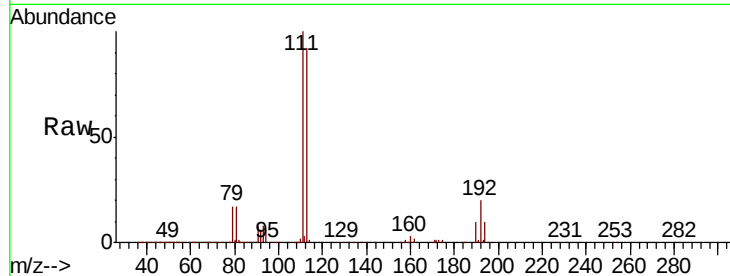
Tot Ion:113 Resp: 291018

Ion Ratio Lower Upper

113 100

111 103.2 81.6 122.4

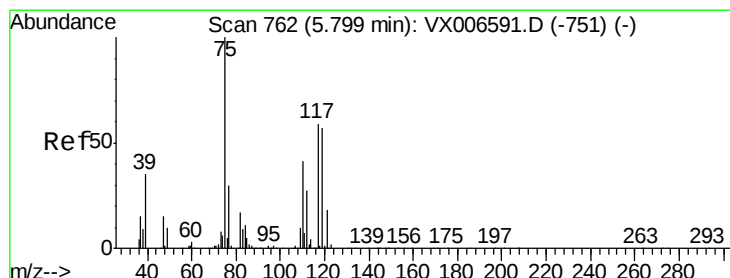
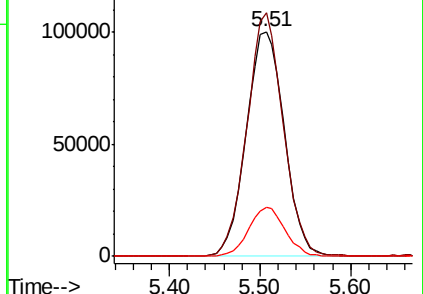
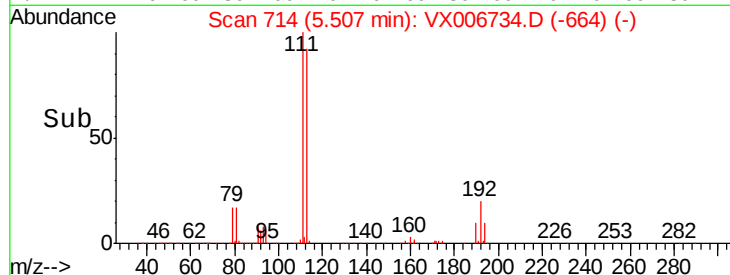
192 21.0 16.7 25.1



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: 5.001 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

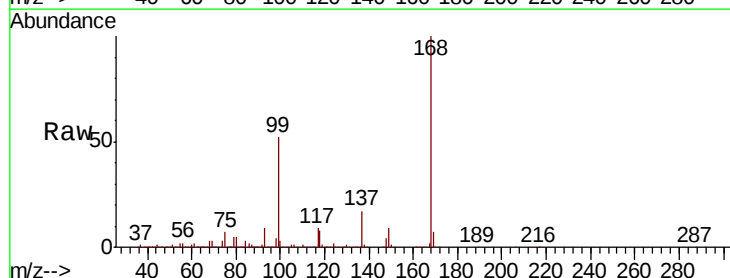
Tgt Ion: 75 Resp: 40277

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

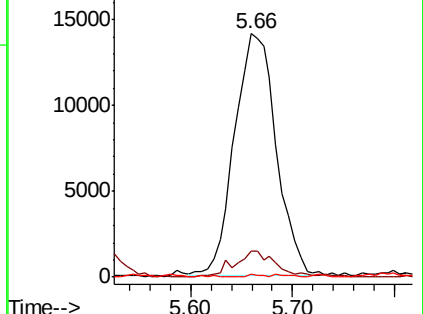
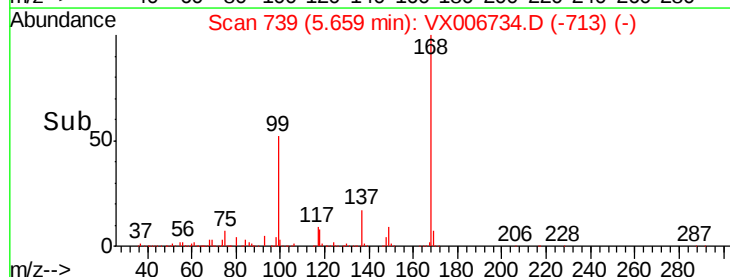
77 0.4 24.8 37.2#

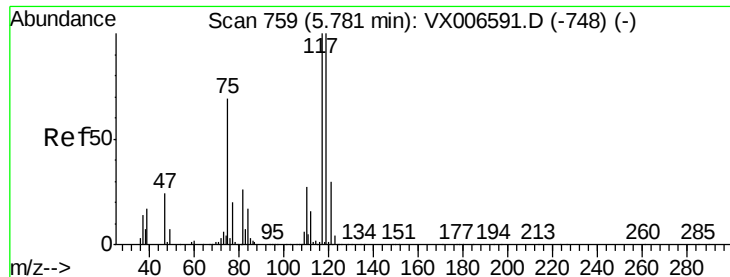


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.487 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

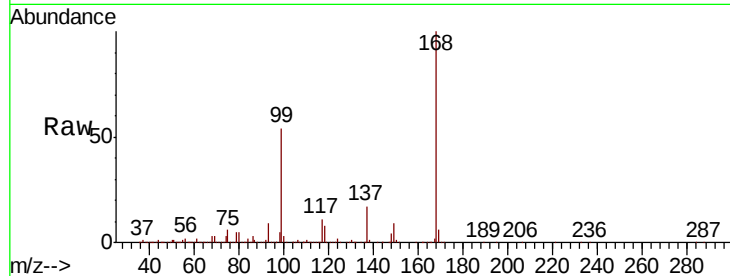
Tot Ion:117 Resp: 58605

Ion Ratio Lower Upper

117 100

119 4.7 79.4 119.2#

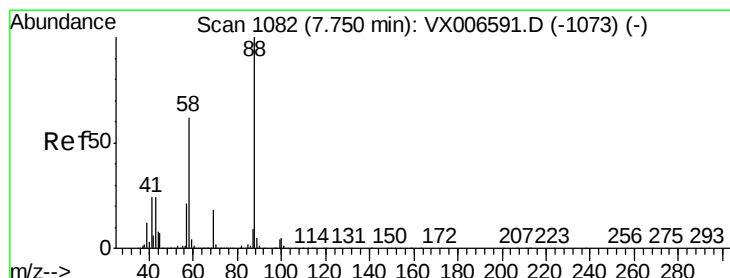
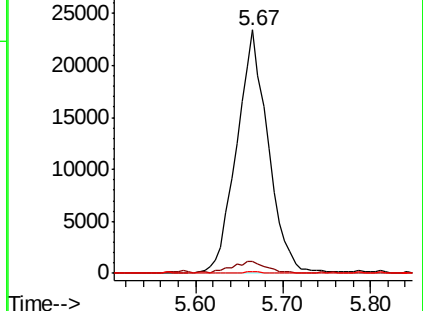
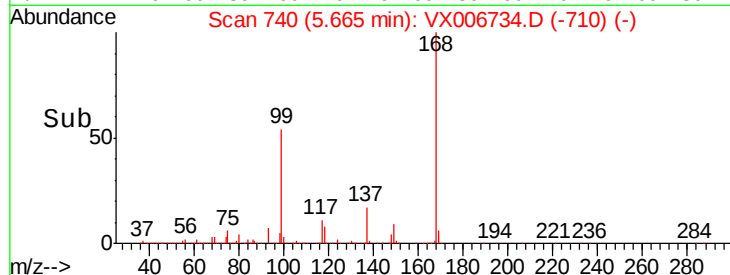
121 0.5 24.0 36.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

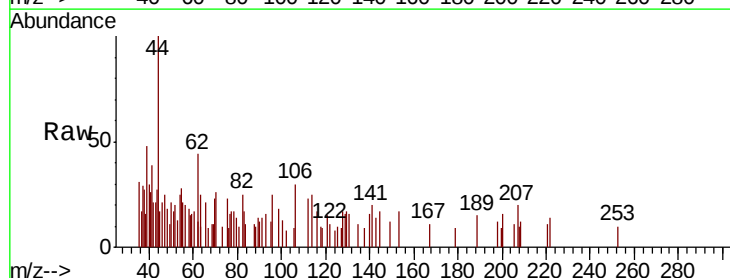
Tgt Ion: 88 Resp: 206

Ion Ratio Lower Upper

88 100

43 151.5 22.2 33.4#

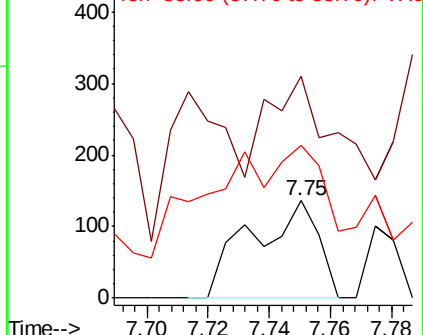
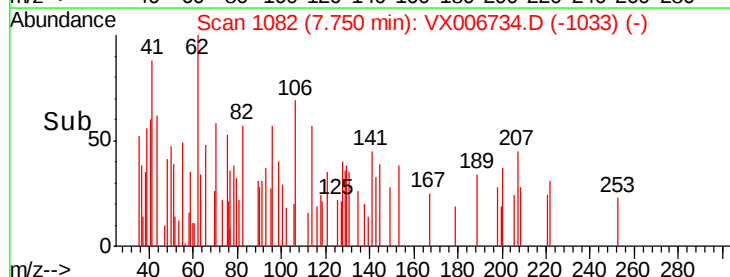
58 304.4 51.0 76.4#

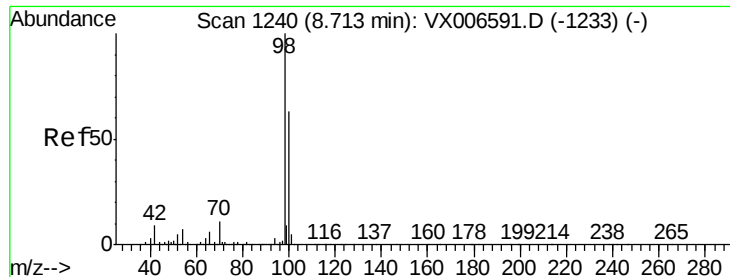


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.448 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

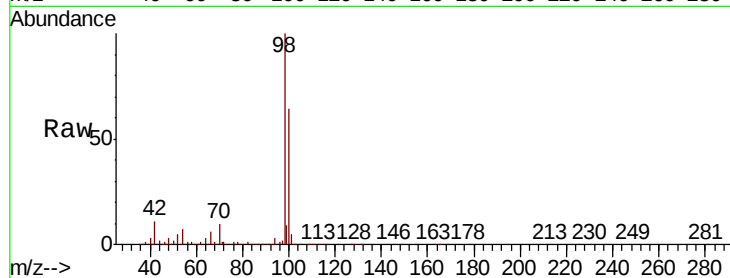
DUP-122018-02DL

Tot Ion: 98 Resp: 1146485

Ion Ratio Lower Upper

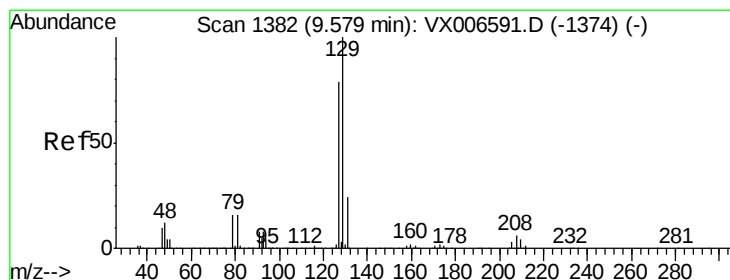
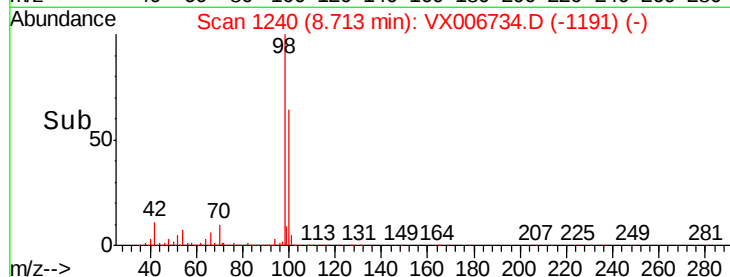
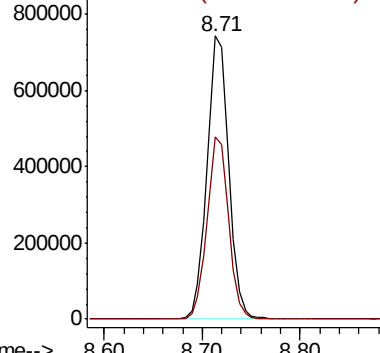
98 100

100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.349 ug/l

RT: 9.63 min Scan# 1390

Delta R.T. 0.05 min

Lab File: VX006734.D

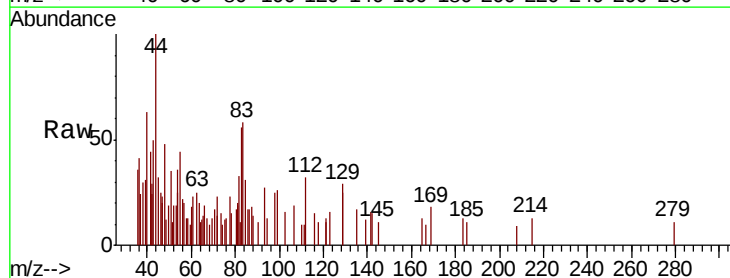
Acq: 21 Dec 2018 19:57

Tgt Ion: 129 Resp: 173

Ion Ratio Lower Upper

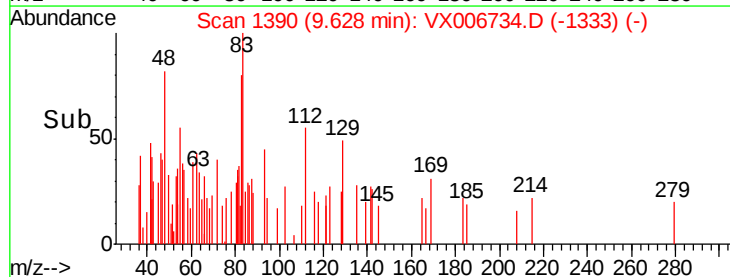
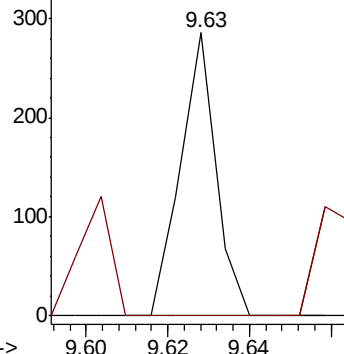
129 100

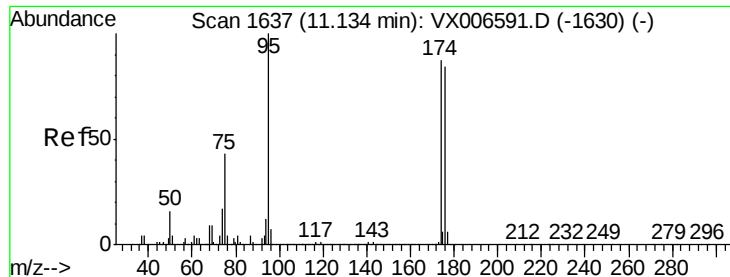
127 0.0 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 46.705 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

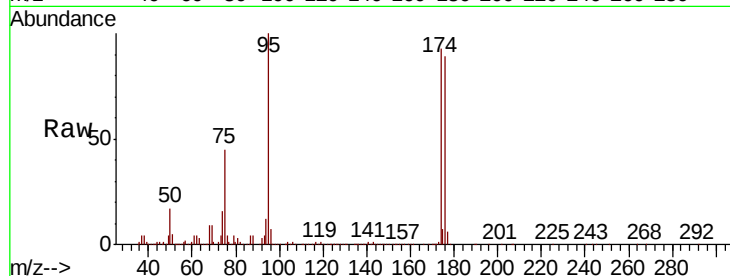
Tot Ion: 95 Resp: 396597

Ion Ratio Lower Upper

95 100

174 87.7 0.0 182.2

176 84.5 0.0 178.8

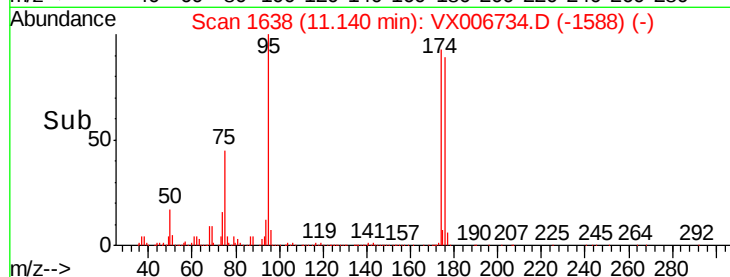


Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)

Time-->

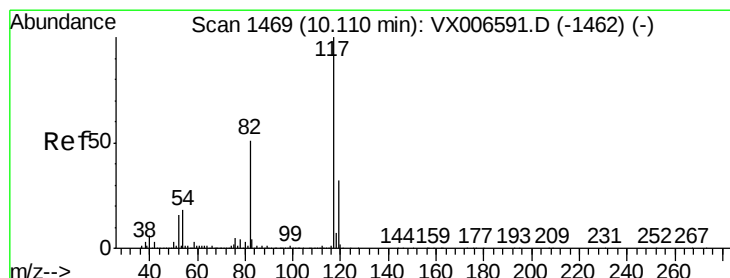


Abundance Ion 94.90 (94.60 to 95.60): VX006734.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006734.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006734.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

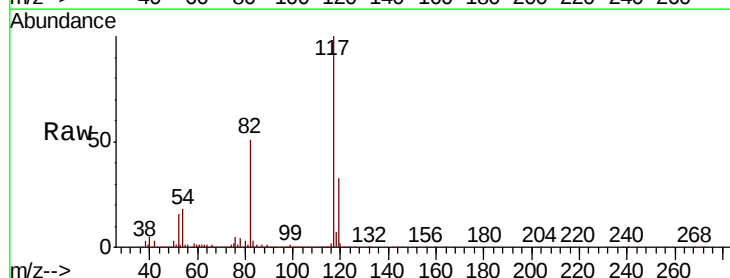
Tgt Ion: 117 Resp: 866463

Ion Ratio Lower Upper

117 100

82 50.6 41.0 61.6

119 33.3 25.4 38.0

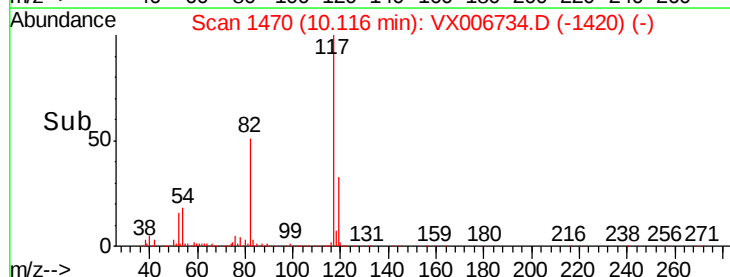


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)

Time-->

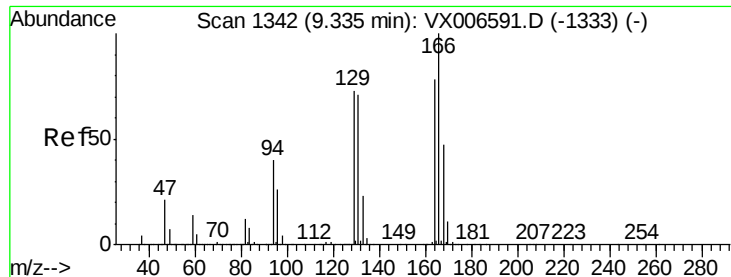


Abundance Ion 116.90 (116.60 to 117.60): VX006734.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006734.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006734.D (-1420) (-)

Time-->



#64

Tetrachloroethene

Concen: 0.241 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

Tot Ion:164 Resp: 1651

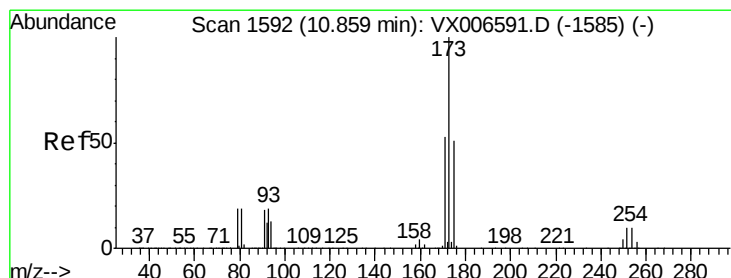
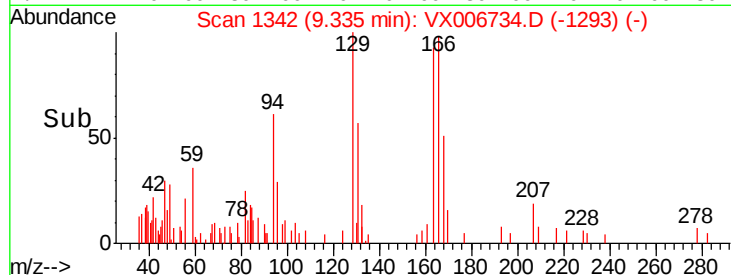
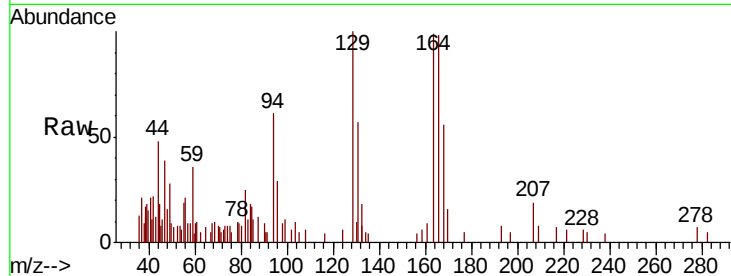
Ion Ratio Lower Upper

164 100

166 98.5 102.5 153.7#

129 100.9 75.1 112.7

131 57.6 72.7 109.1#



#71

Bromoform

Concen: 4.475 ug/l

RT: 10.72 min Scan# 1569

Delta R.T. -0.14 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

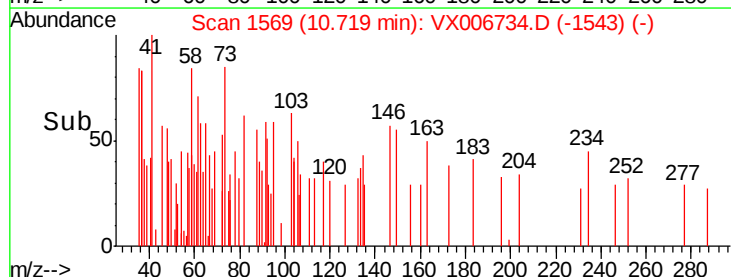
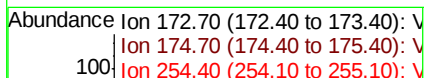
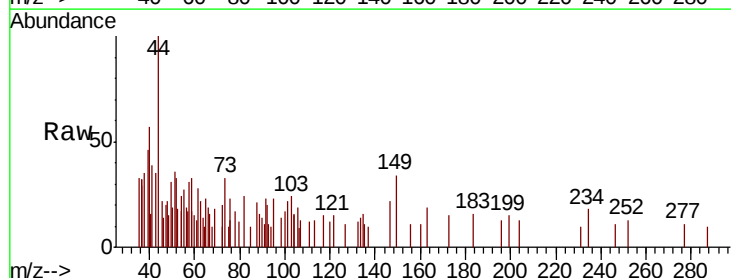
Tgt Ion:173 Resp: 85

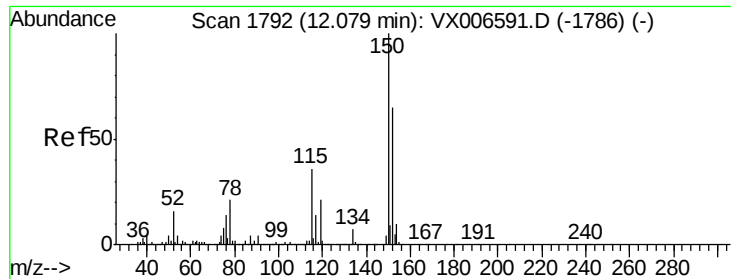
Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



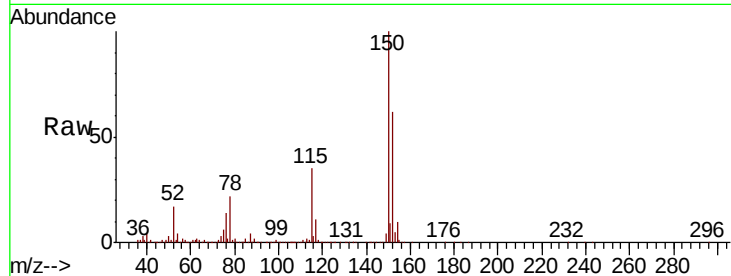


#72

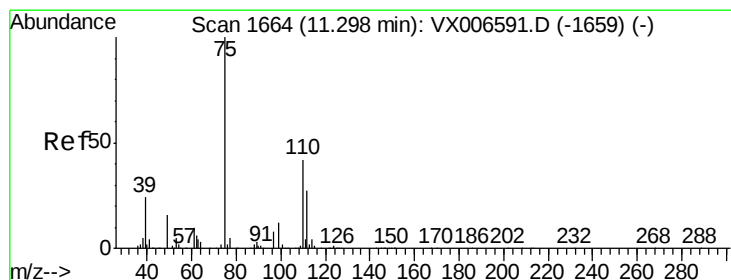
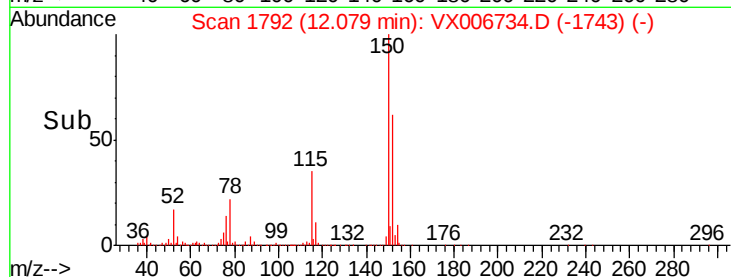
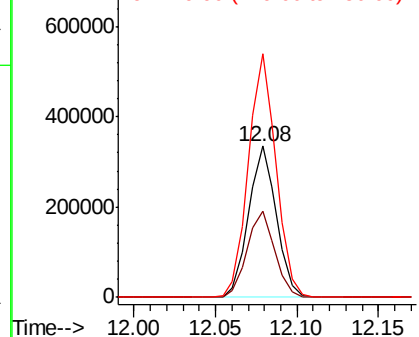
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006734.D
Acq: 21 Dec 2018 19:57

Instrument :
MSVOA_X
ClientSampleId :
DUP-122018-02DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.6	39.1	117.2
150	160.6	0.0	344.8



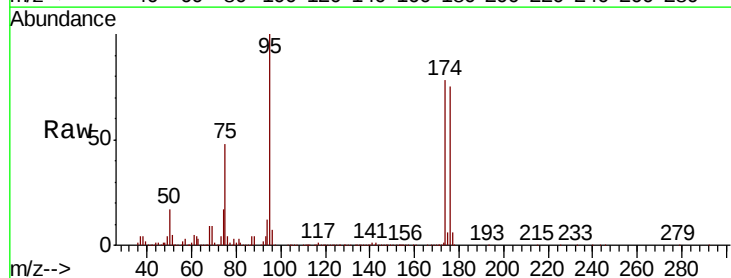
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



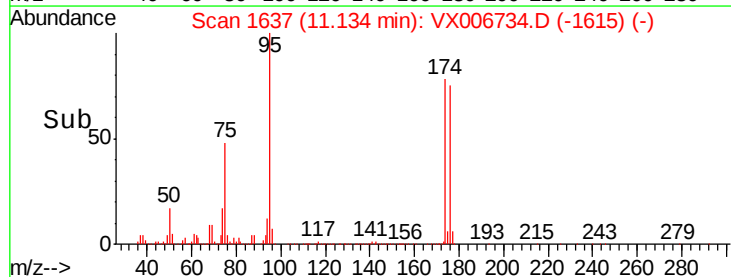
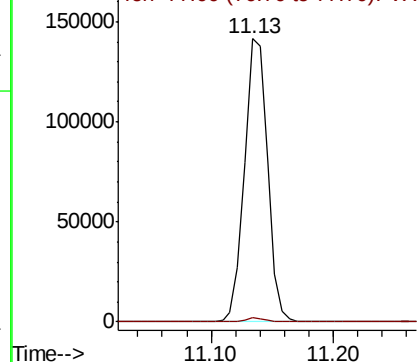
#76

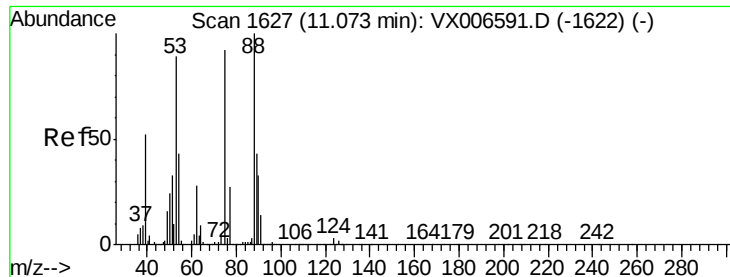
1,2,3-Trichloropropane
Concen: 24.995 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006734.D
Acq: 21 Dec 2018 19:57

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	18.5	55.5#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 73.859 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006734.D

Acq: 21 Dec 2018 19:57

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

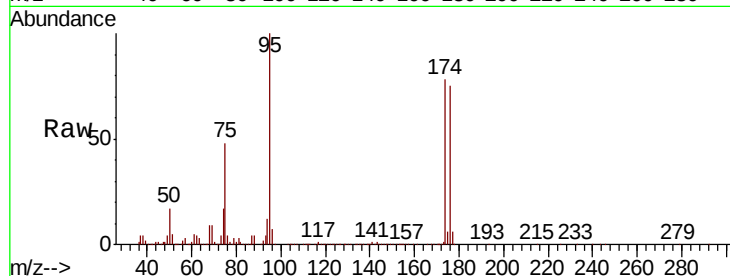
Tot Ion: 75 Resp: 184399

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

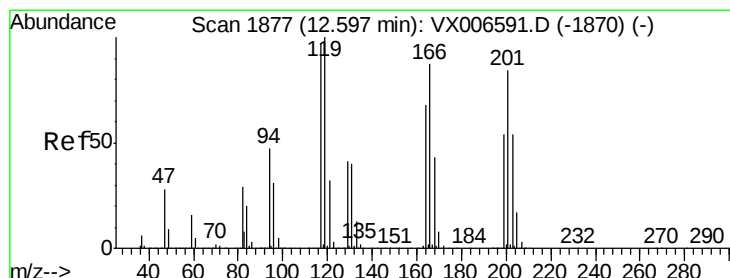
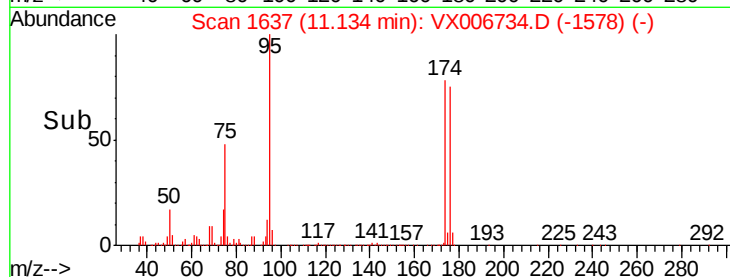
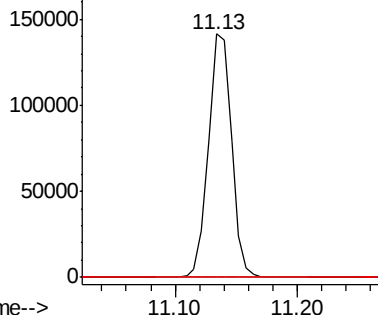
89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 3.958 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX006734.D

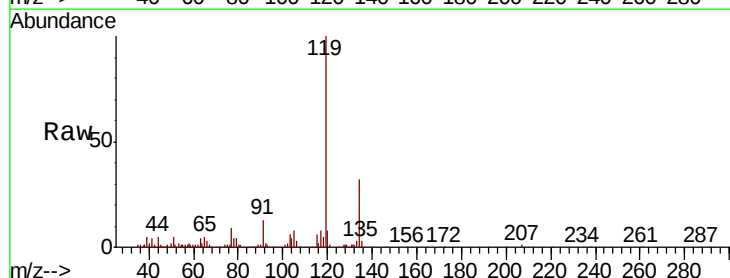
Acq: 21 Dec 2018 19:57

Tgt Ion: 117 Resp: 2688

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

