

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006768.D
 Acq On : 22 Dec 2018 13:30
 Operator : JC/MD
 Sample : J6519-12DL 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-122018-02DL

Quant Time: Dec 24 04:24:04 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	644702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1012040	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	920120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	437819	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	345564	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
35) Dibromofluoromethane	5.51	113	296915	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	
50) Toluene-d8	8.71	98	1185242	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.13	95	421887	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

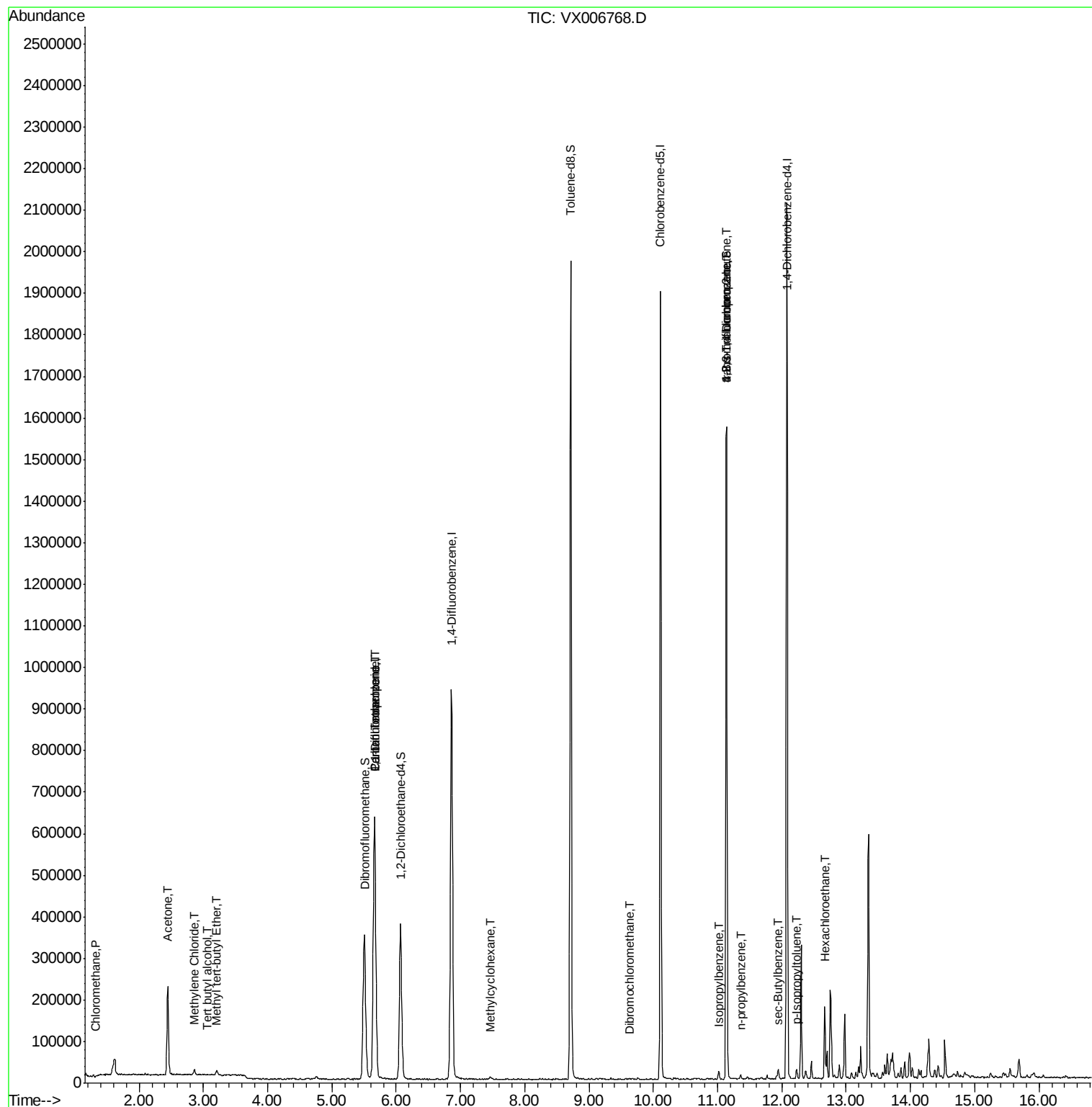
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1628	0.256	ug/l #	82
5) Bromomethane	1.64	94	1368	Below Cal	#	50
11) Tert butyl alcohol	3.06	59	908	0.586	ug/l #	36
16) Acetone	2.45	43	228177	71.478	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	10481	0.548	ug/l #	90
20) Methylene Chloride	2.86	84	6099	0.924	ug/l	93
28) Bromochloromethane	5.01	49	96	Below Cal	#	67
36) 1,1-Dichloropropene	5.66	75	43008	5.131	ug/l #	48
38) Carbon Tetrachloride	5.67	117	59944	7.359	ug/l #	15
39) Methylcyclohexane	7.46	83	3127	0.283	ug/l #	89
49) 1,4-Dioxane	7.79	88	129	Below Cal	#	1
60) Dibromochloromethane	9.62	129	22	2.327	ug/l	70
73) Isopropylbenzene	11.02	105	10072	0.336	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	196699	24.175	ug/l #	40
78) n-propylbenzene	11.36	91	7085	0.215	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.13	75	196699	71.576	ug/l #	10
85) sec-Butylbenzene	11.94	105	10483	0.346	ug/l #	77
86) p-Isopropyltoluene	12.23	119	10832	0.407	ug/l	97
90) Hexachloroethane	12.67	117	8119	5.114	ug/l #	6

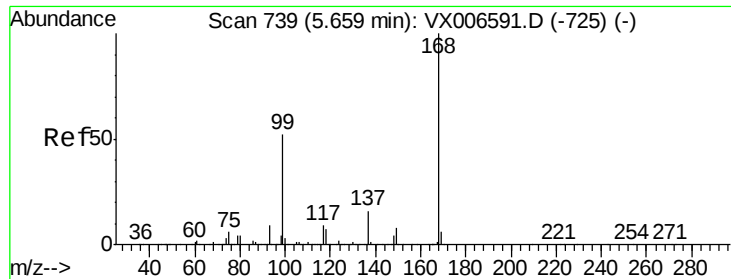
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

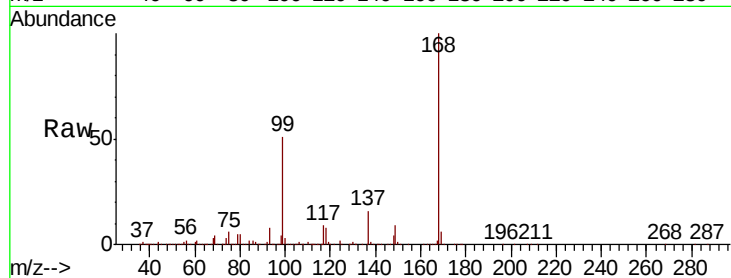
DUP-122018-02DL

Tot Ion:168 Resp: 644702

Ion Ratio Lower Upper

168 100

99 50.9 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

250000

200000

150000

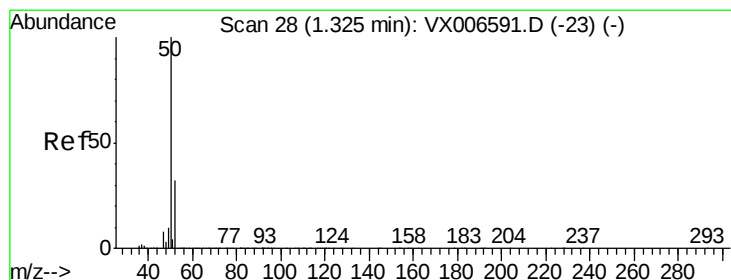
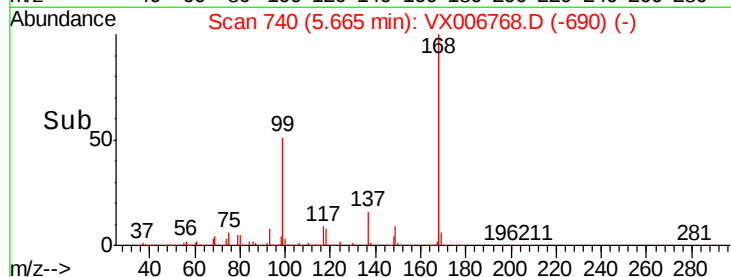
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.256 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006768.D

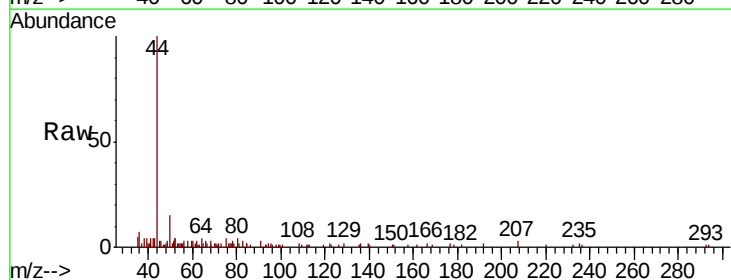
Acq: 22 Dec 2018 13:30

Tgt Ion: 50 Resp: 1628

Ion Ratio Lower Upper

50 100

52 41.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

600

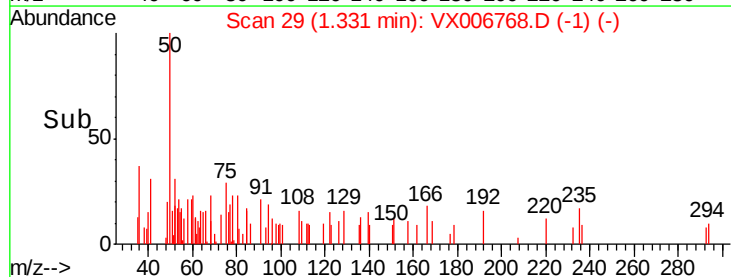
400

200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

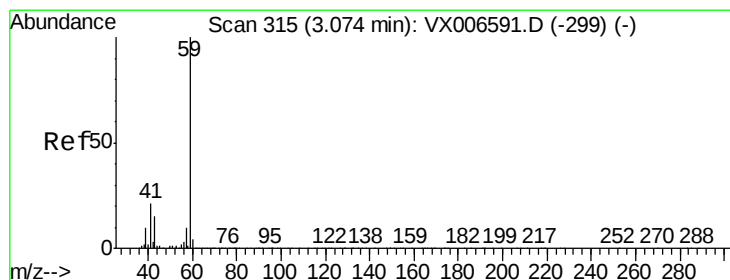
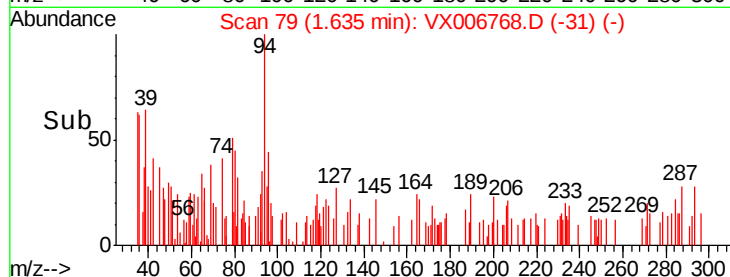
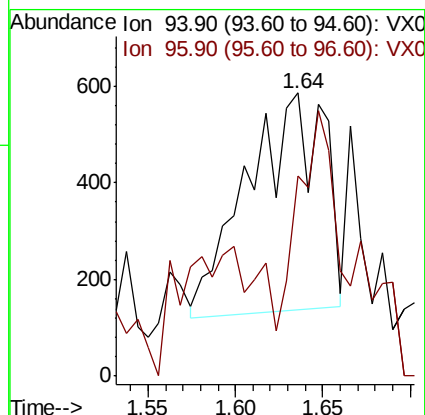
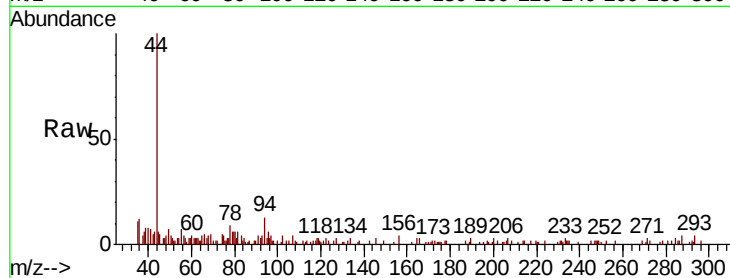
DUP-122018-02DL

Tot Ion: 94 Resp: 1368

Ion Ratio Lower Upper

94 100

96 44.0 73.4 110.2#



#11

Tert butyl alcohol

Concen: 0.586 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006768.D

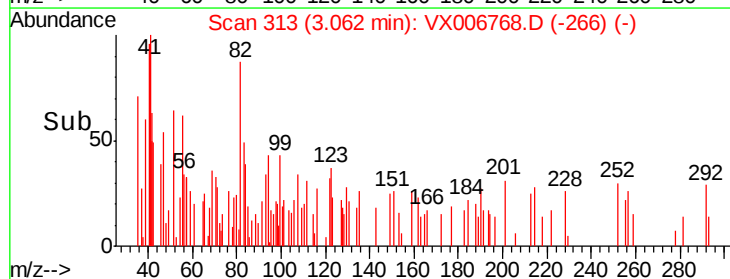
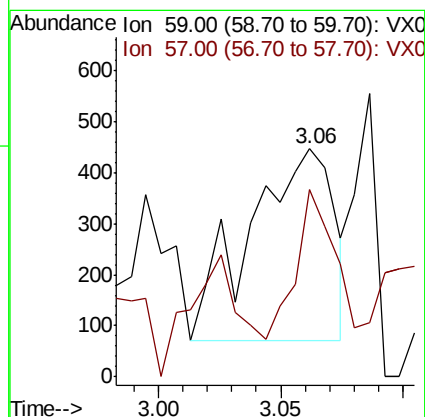
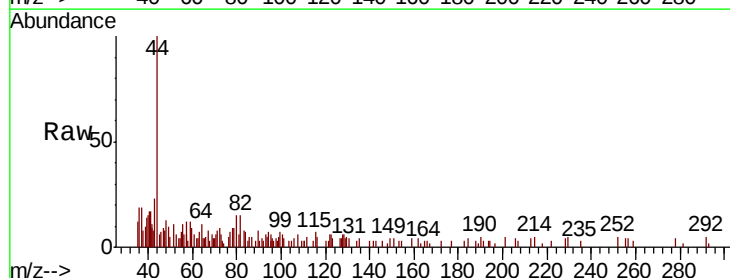
Acq: 22 Dec 2018 13:30

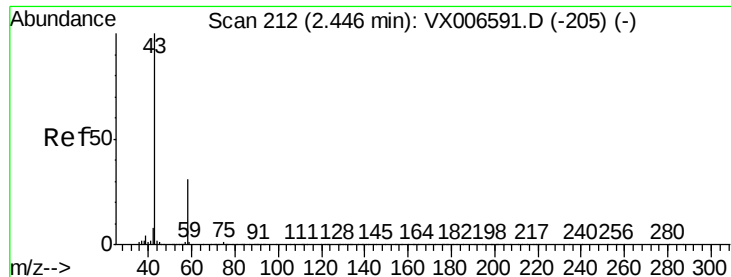
Tgt Ion: 59 Resp: 908

Ion Ratio Lower Upper

59 100

57 34.6 8.5 12.7#

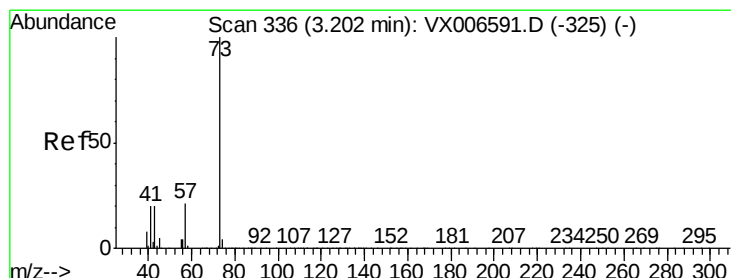
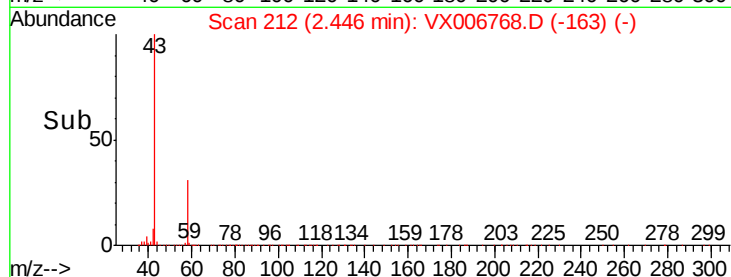
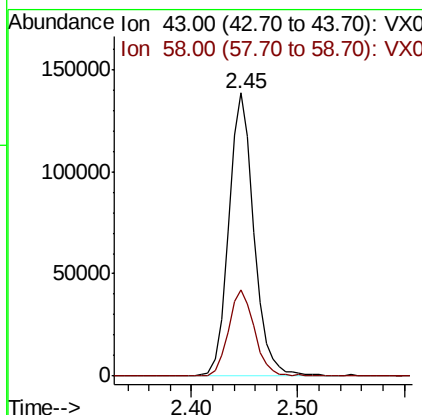
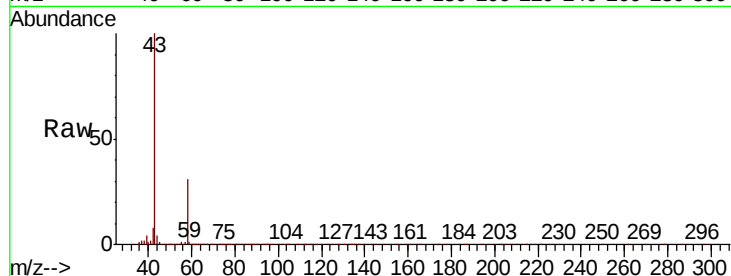




#16
Acetone
Concen: 71.478 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006768.D
Acq: 22 Dec 2018 13:30

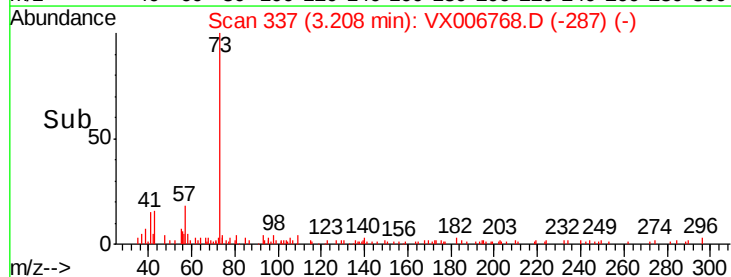
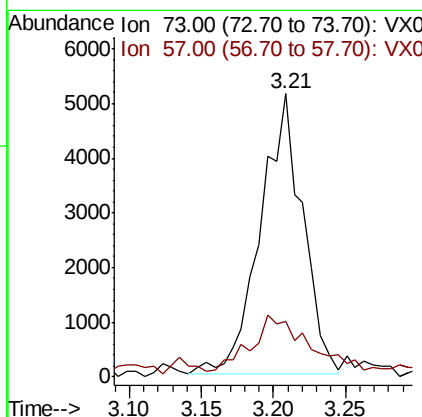
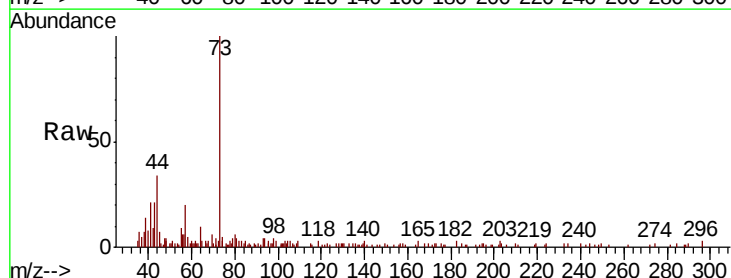
Instrument :
MSVOA_X
ClientSampleId :
DUP-122018-02DL

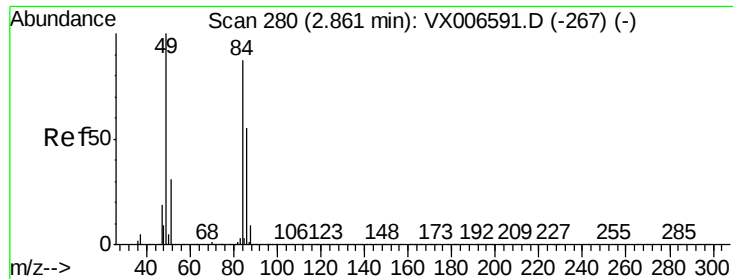
Tot Ion: 43 Resp: 228177
Ion Ratio Lower Upper
43 100
58 30.4 25.0 37.6



#19
Methyl tert-butyl Ether
Concen: 0.548 ug/l
RT: 3.21 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX006768.D
Acq: 22 Dec 2018 13:30

Tgt Ion: 73 Resp: 10481
Ion Ratio Lower Upper
73 100
57 16.1 16.8 25.2#

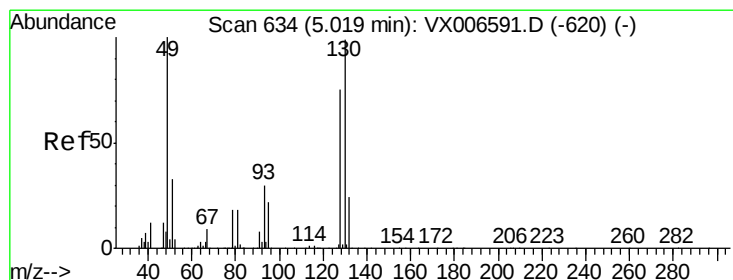
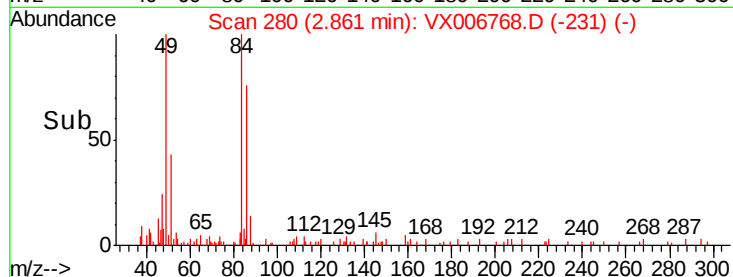
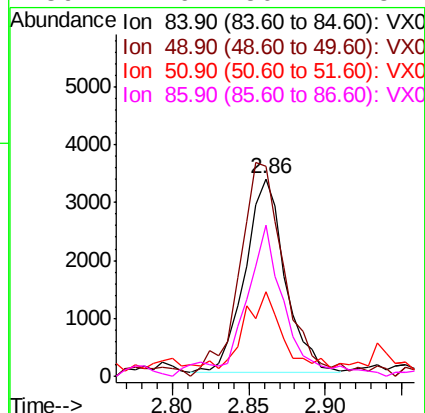
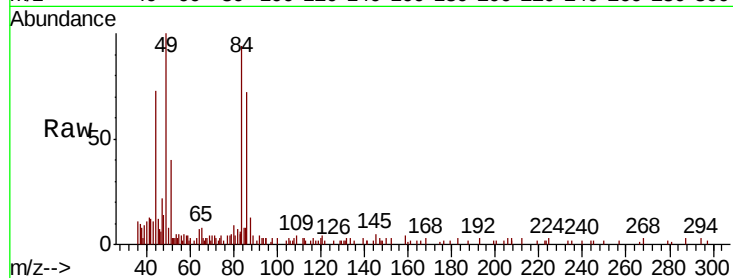




#20
Methvlene Chloride
Concen: 0.924 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006768.D
Acq: 22 Dec 2018 13:30

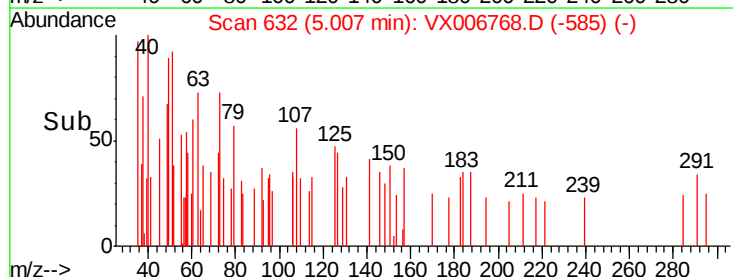
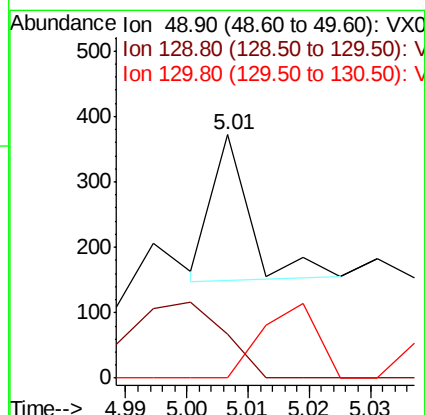
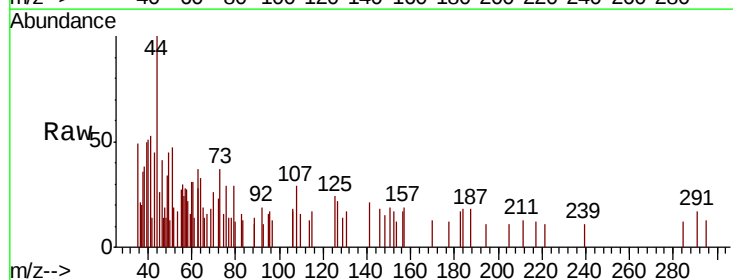
Instrument :
MSVOA_X
ClientSampleId :
DUP-122018-02DL

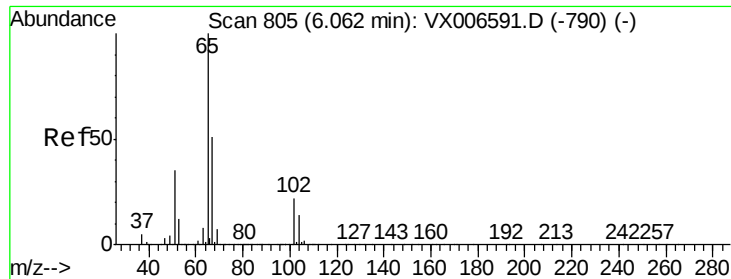
Tot Ion: 84 Resp: 6099
Ion Ratio Lower Upper
84 100
49 108.8 91.8 137.6
51 38.0 28.5 42.7
86 72.6 50.2 75.2



#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 632
Delta R.T. -0.01 min
Lab File: VX006768.D
Acq: 22 Dec 2018 13:30

Tgt Ion: 49 Resp: 96
Ion Ratio Lower Upper
49 100
129 129.2 0.0 5.4#
130 74.0 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 49.734 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

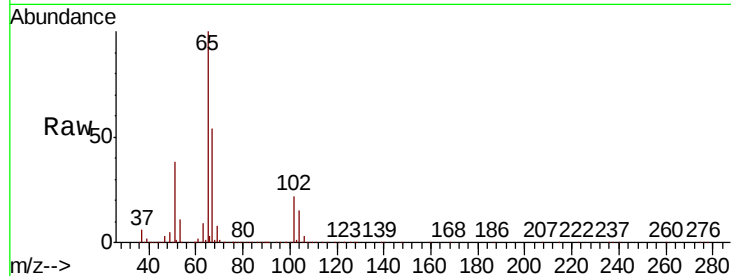
DUP-122018-02DL

Tot Ion: 65 Resp: 345564

Ion Ratio Lower Upper

65 100

67 52.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX006591.D (-790) (-)

Ion 66.90 (66.60 to 67.60): VX006591.D (-790) (-)

6.07

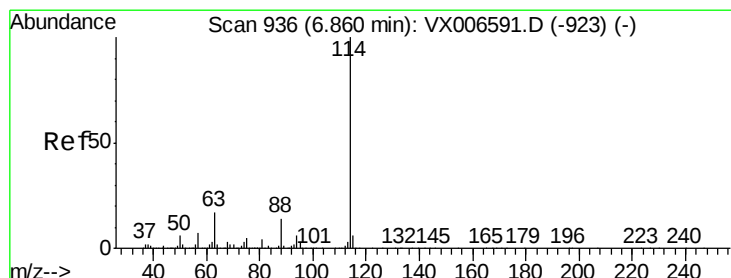
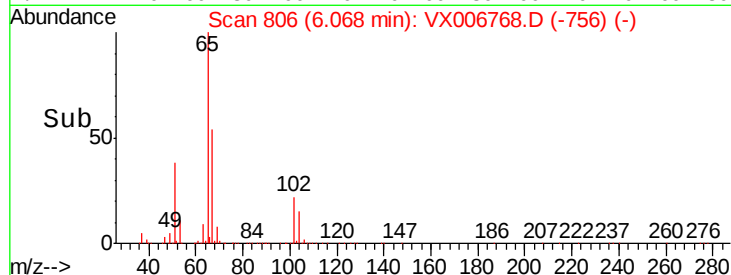
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

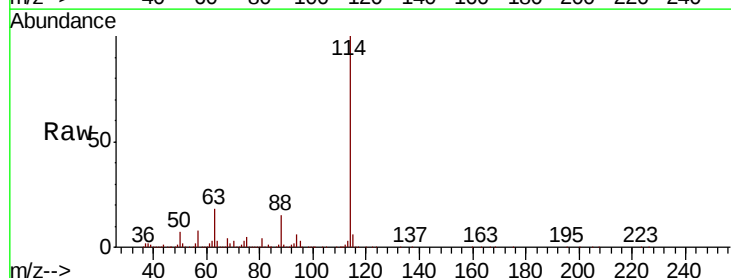
Tgt Ion: 114 Resp: 1012040

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

88 15.1 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): VX006591.D (-923) (-)

Ion 63.00 (62.70 to 63.70): VX006591.D (-923) (-)

Ion 87.90 (87.60 to 88.60): VX006591.D (-923) (-)

6.86

600000

500000

400000

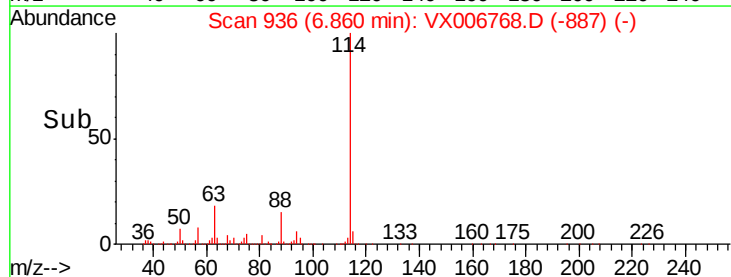
300000

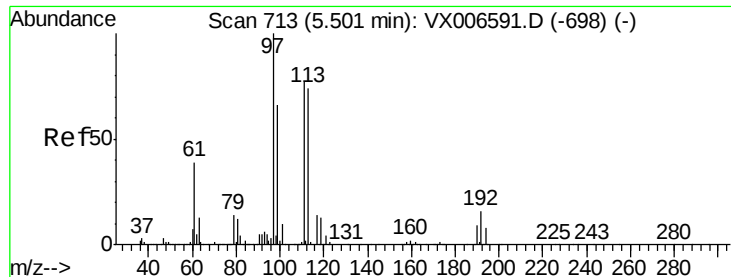
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.393 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

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DUP-122018-02DL

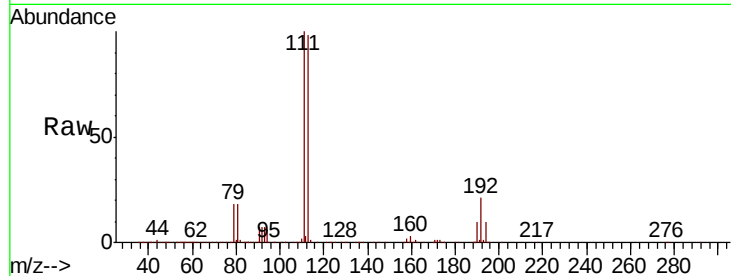
Tot Ion:113 Resp: 296915

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

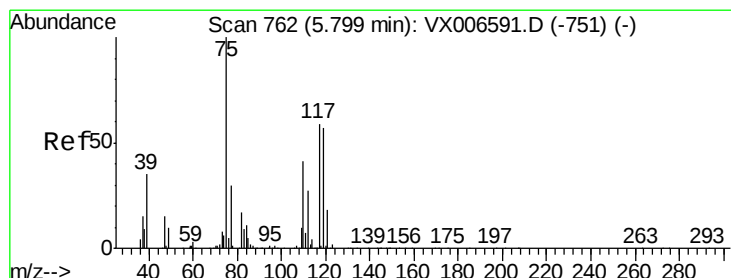
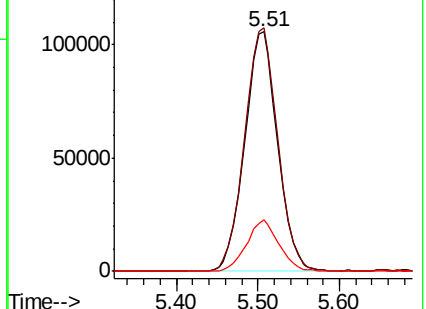
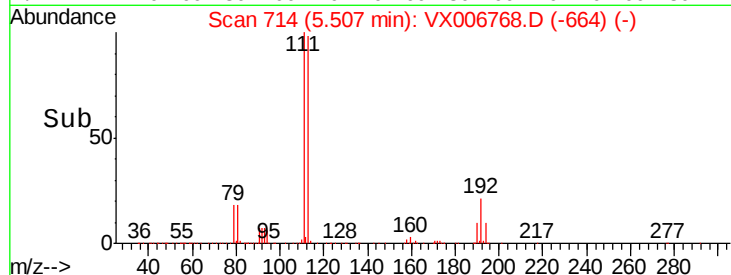
192 21.1 16.7 25.1



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: 5.131 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

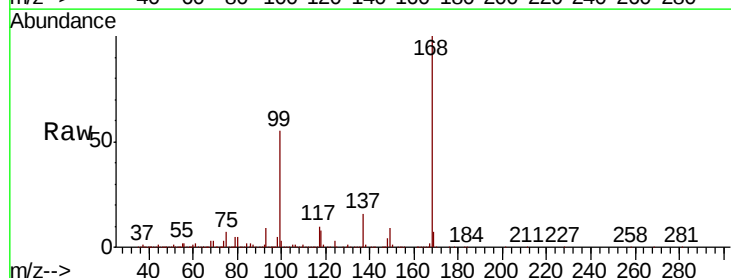
Tgt Ion: 75 Resp: 43008

Ion Ratio Lower Upper

75 100

110 10.2 20.2 60.5#

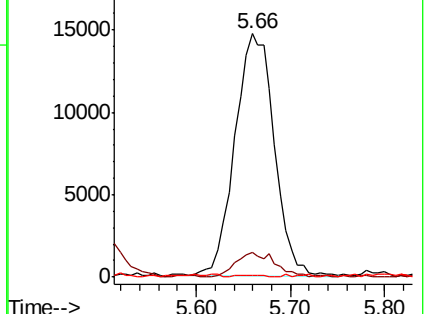
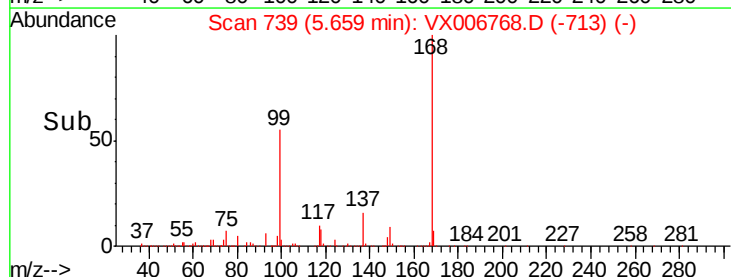
77 0.6 24.8 37.2#

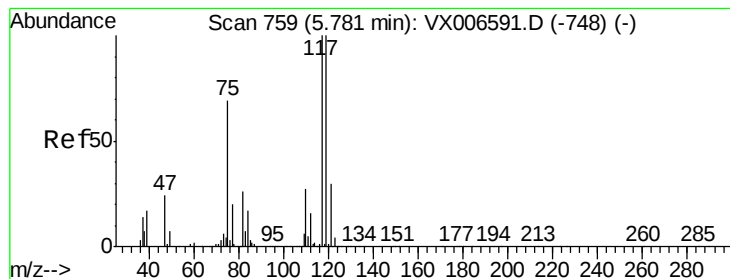


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.359 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

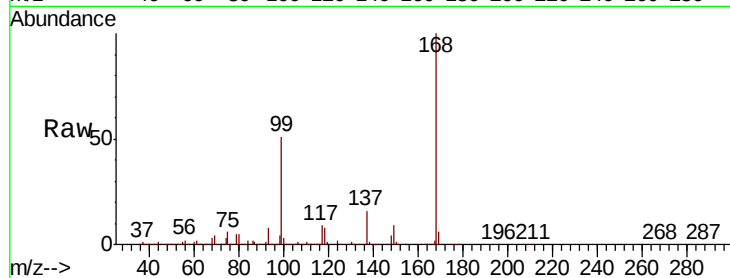
Tot Ion:117 Resp: 59944

Ion Ratio Lower Upper

117 100

119 5.3 79.4 119.2#

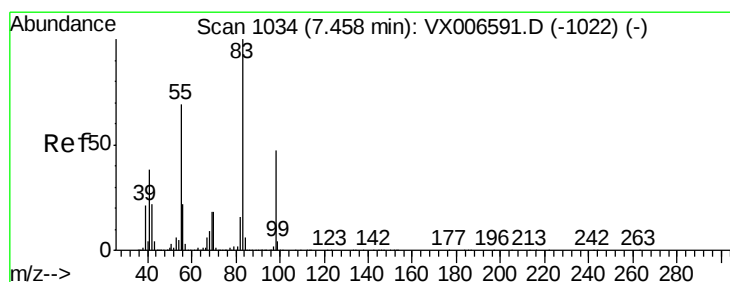
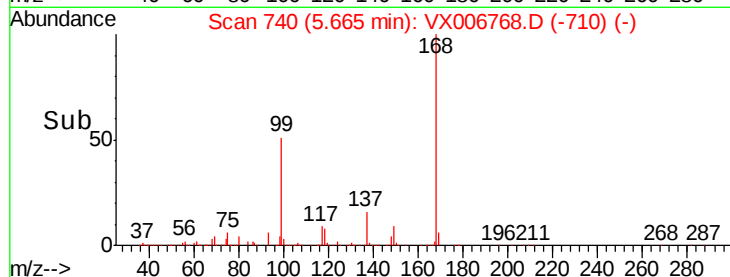
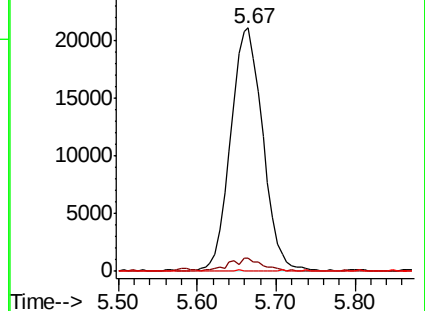
121 0.3 24.0 36.0#



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



#39

Methylcyclohexane

Concen: 0.283 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.01 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

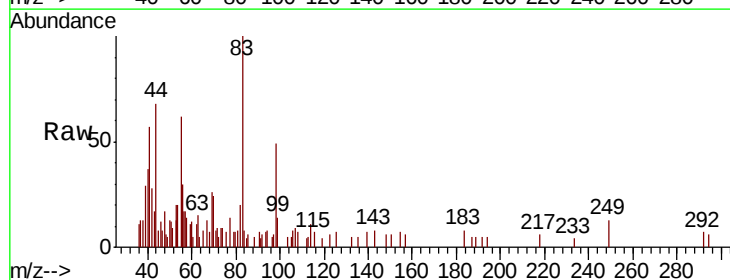
Tgt Ion: 83 Resp: 3127

Ion Ratio Lower Upper

83 100

55 54.7 54.9 82.3#

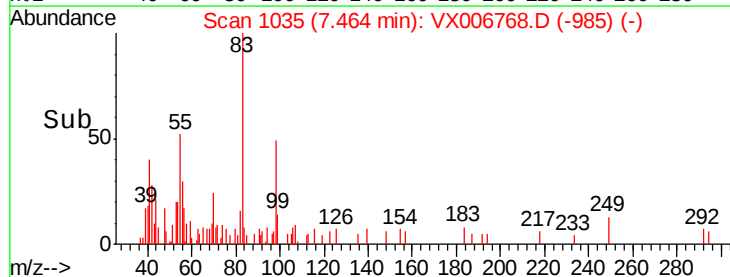
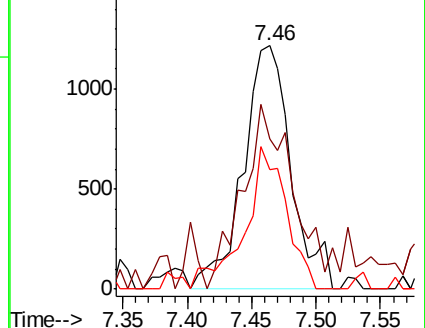
98 49.0 37.9 56.9

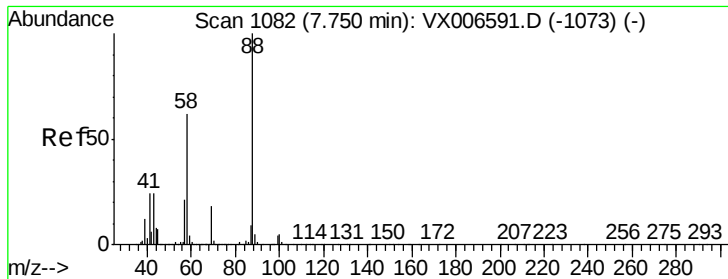


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

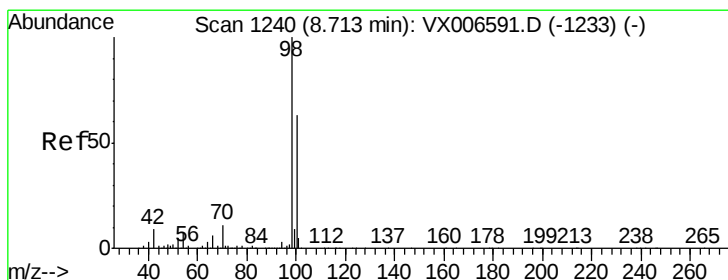
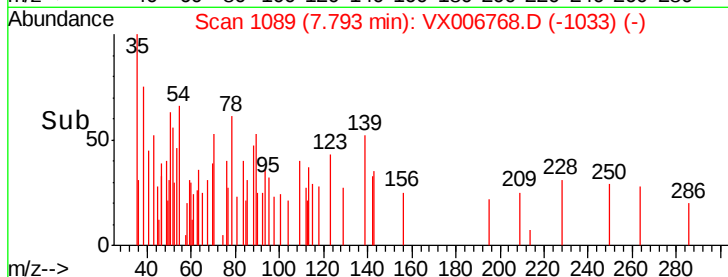
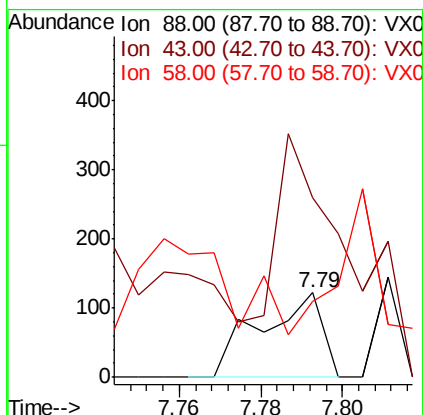
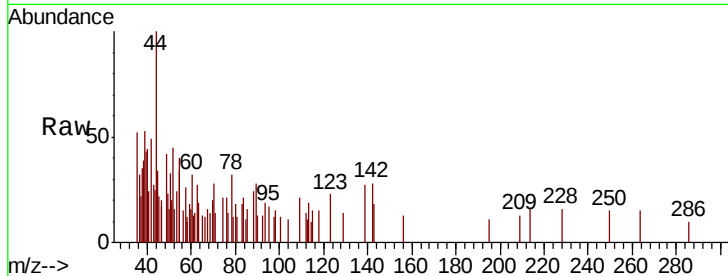




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.79 min Scan# 1089
Delta R.T. 0.04 min
Lab File: VX006768.D
Acq: 22 Dec 2018 13:30

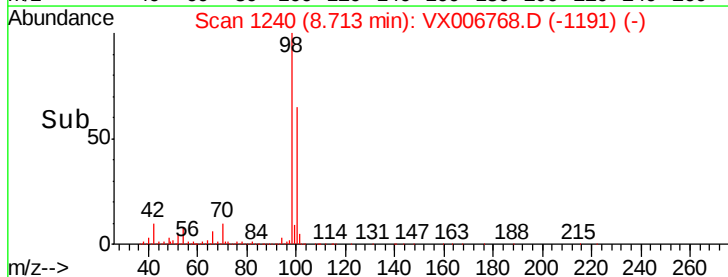
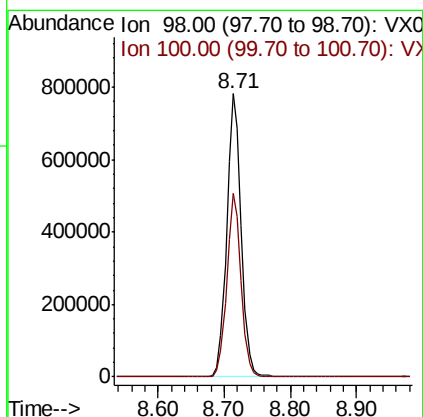
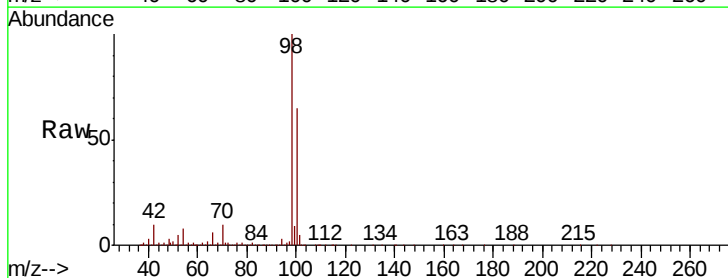
Instrument :
MSVOA_X
ClientSampleId :
DUP-122018-02DL

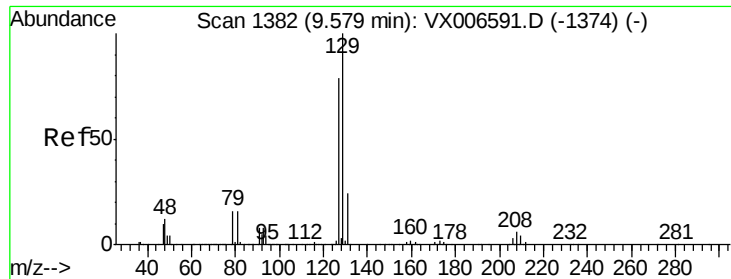
Tot Ion: 88 Resp: 129
Ion Ratio Lower Upper
88 100
43 394.6 22.2 33.4#
58 0.0 51.0 76.4#



#50
Toluene-d8
Concen: 49.123 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006768.D
Acq: 22 Dec 2018 13:30

Tgt Ion: 98 Resp: 1185242
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0





#60

Dibromochloromethane

Concen: 2.327 ug/l

RT: 9.62 min Scan# 1389

Delta R.T. 0.04 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

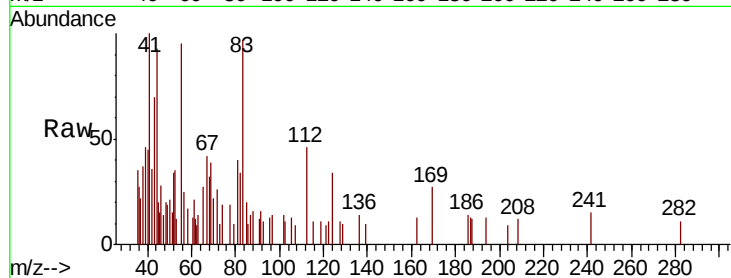
DUP-122018-02DL

Tot Ion:129 Resp: 22

Ion Ratio Lower Upper

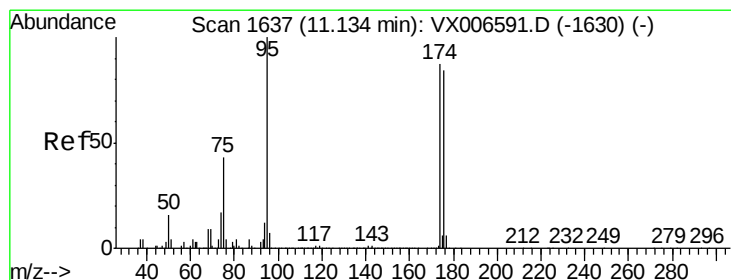
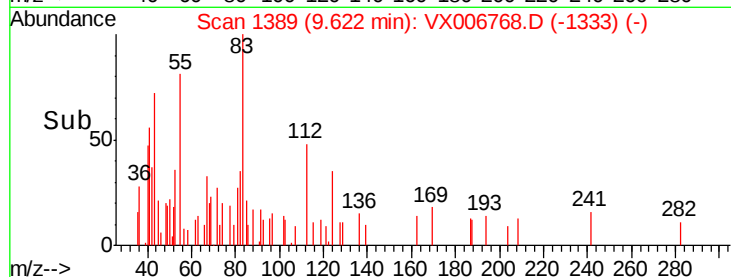
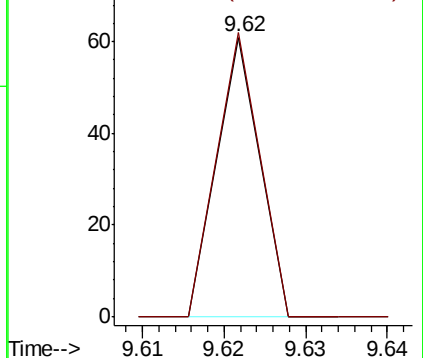
129 100

127 104.5 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: 47.743 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

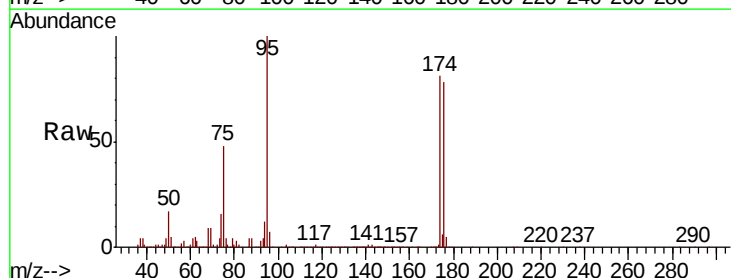
Tgt Ion: 95 Resp: 421887

Ion Ratio Lower Upper

95 100

174 88.2 0.0 182.2

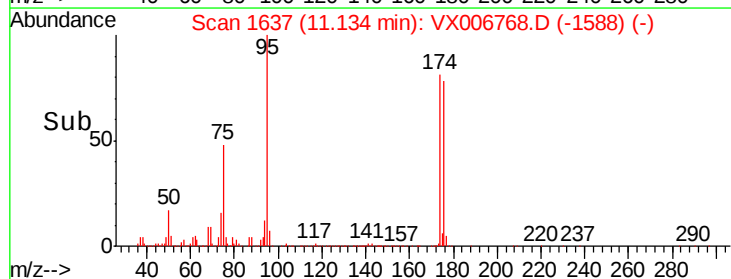
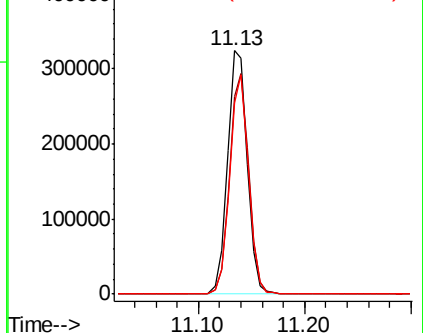
176 86.1 0.0 178.8

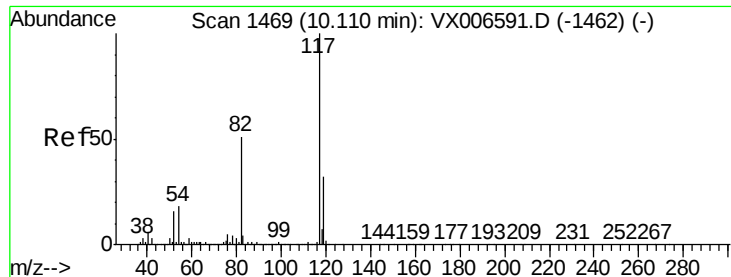


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

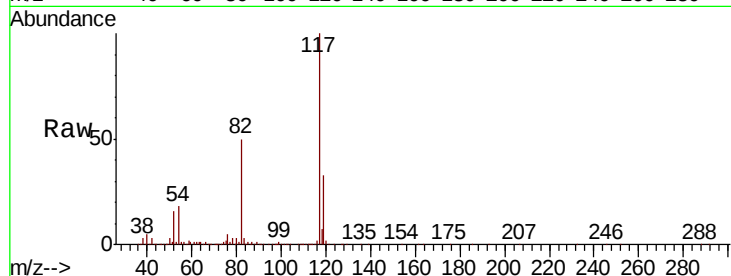
Tot Ion:117 Resp: 920120

Ion Ratio Lower Upper

117 100

82 49.7 41.0 61.6

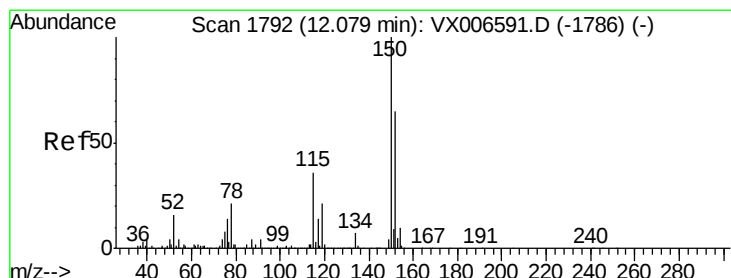
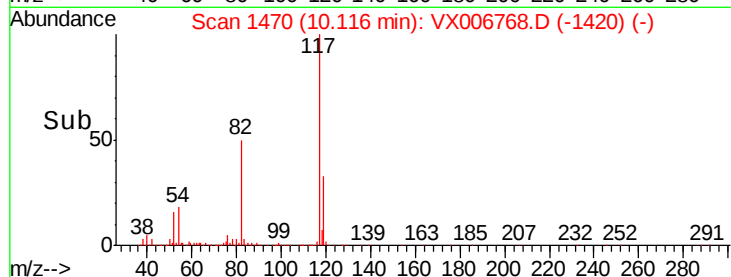
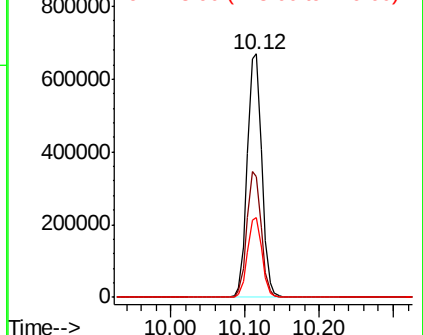
119 32.6 25.4 38.0



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# 1792

Delta R.T. -0.00 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

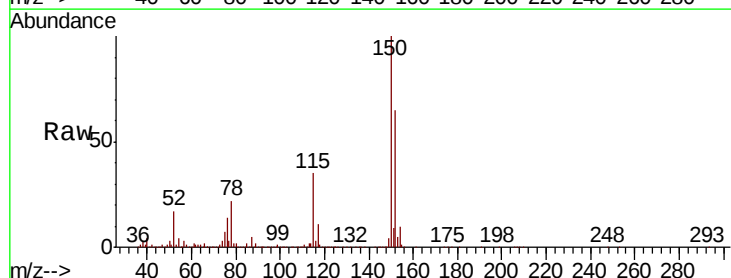
Tgt Ion:152 Resp: 437819

Ion Ratio Lower Upper

152 100

115 55.4 39.1 117.2

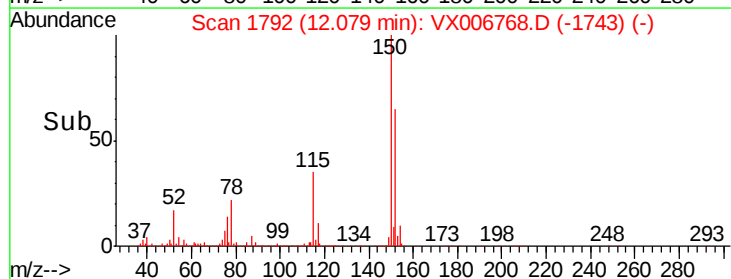
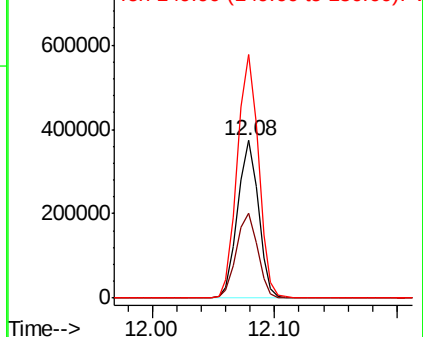
150 157.8 0.0 344.8

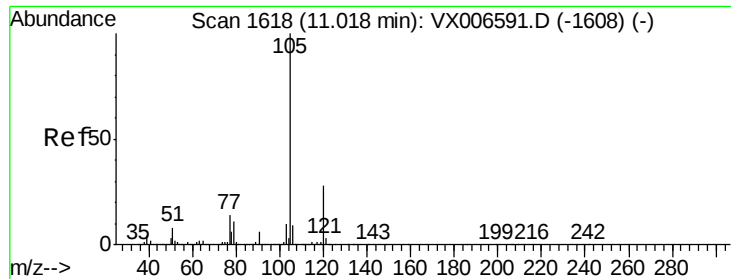


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.336 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

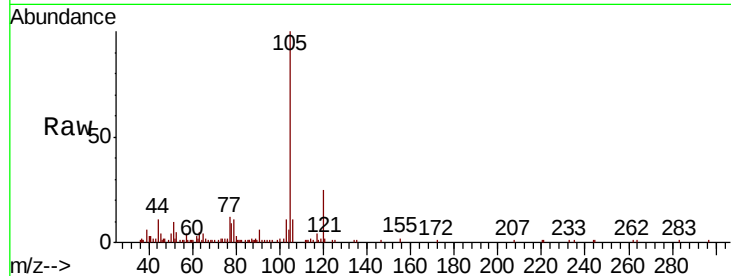
DUP-122018-02DL

Tot Ion:105 Resp: 10072

Ion Ratio Lower Upper

105 100

120 33.3 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

8000

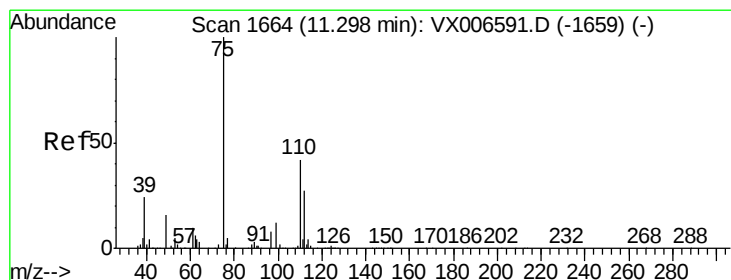
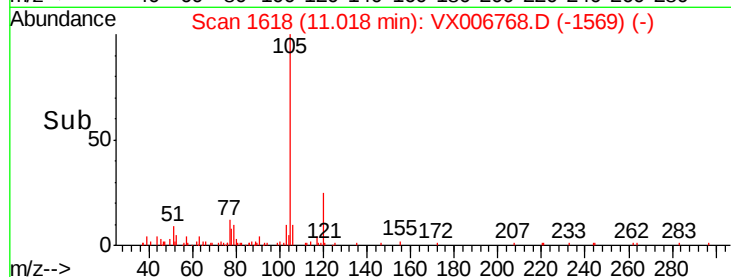
6000

4000

2000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.175 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006768.D

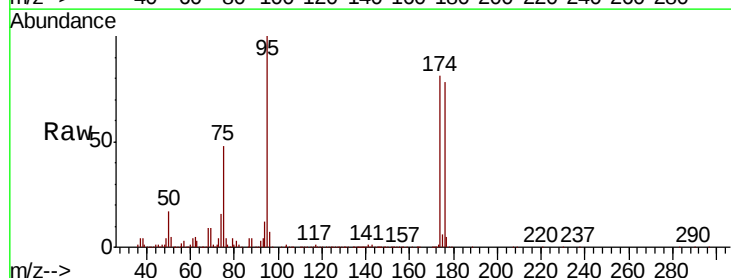
Acq: 22 Dec 2018 13:30

Tgt Ion: 75 Resp: 196699

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

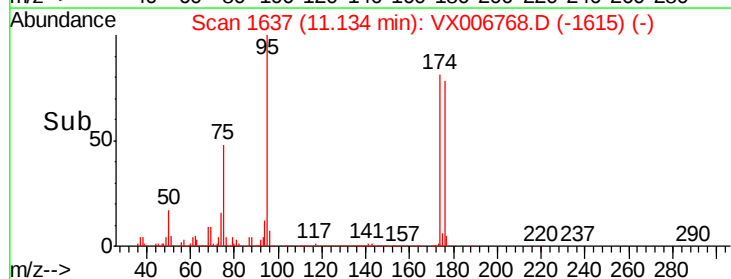
150000

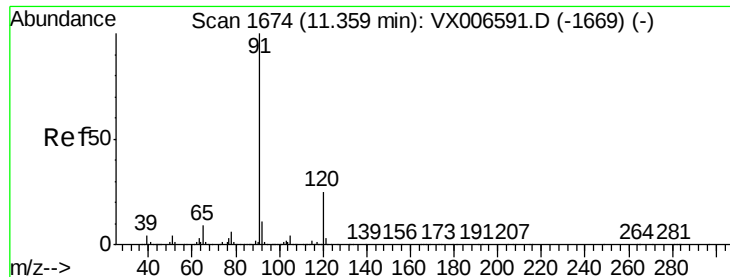
100000

50000

0

Time-->





#78

n-propylbenzene

Concen: 0.215 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

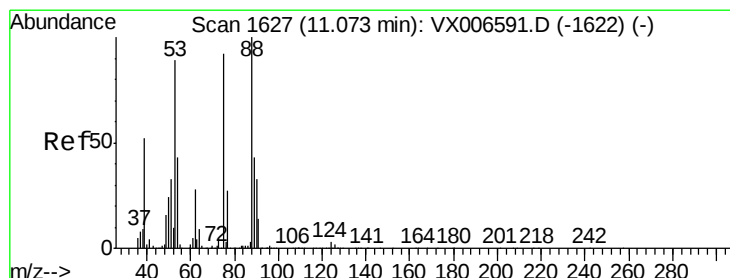
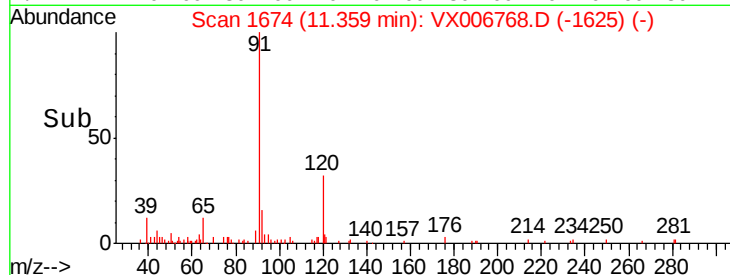
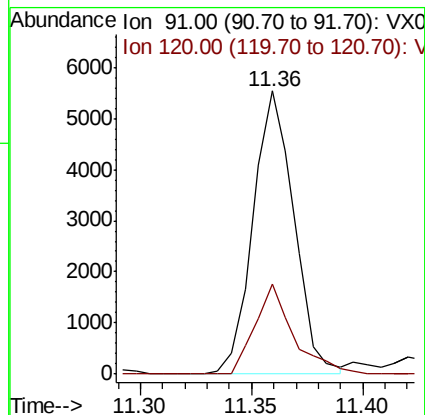
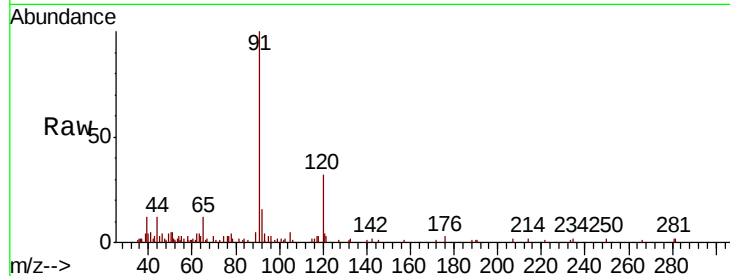
DUP-122018-02DL

Tot Ion: 91 Resp: 7085

Ion Ratio Lower Upper

91 100

120 29.8 12.7 38.0



#81

trans-1,4-Dichloro-2-butene

Concen: 71.576 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

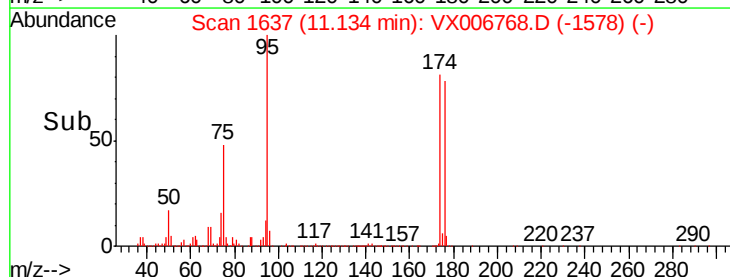
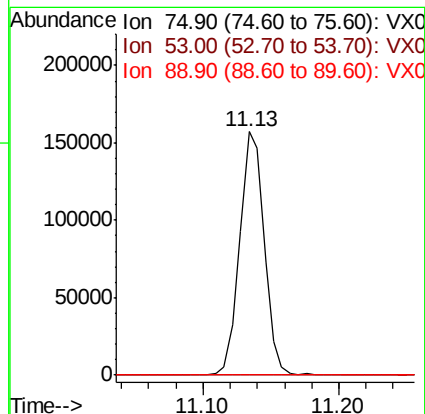
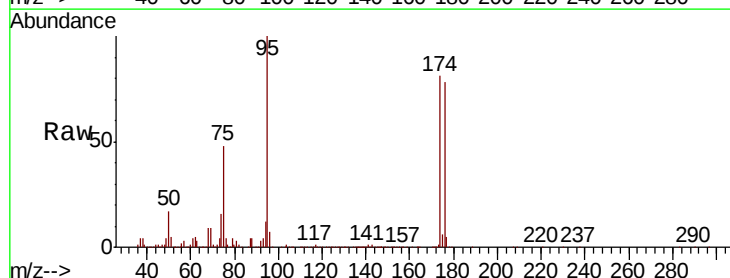
Tgt Ion: 75 Resp: 196699

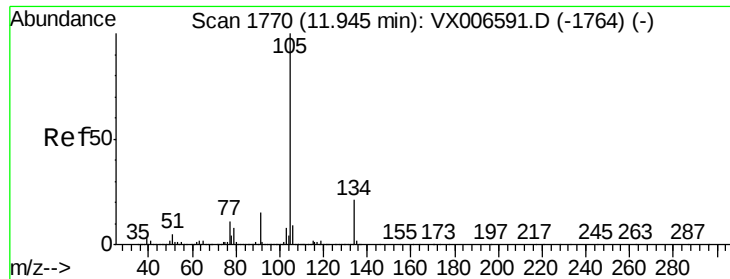
Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#





#85

sec-Butylbenzene

Concen: 0.346 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

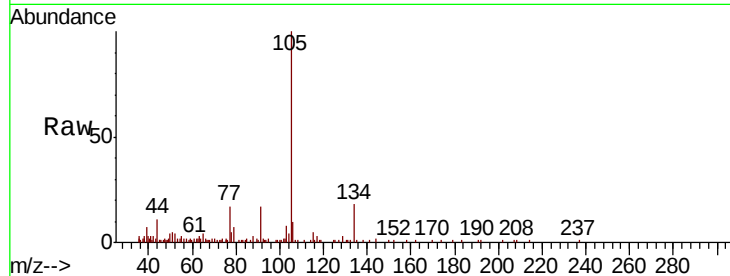
DUP-122018-02DL

Tot Ion:105 Resp: 10483

Ion Ratio Lower Upper

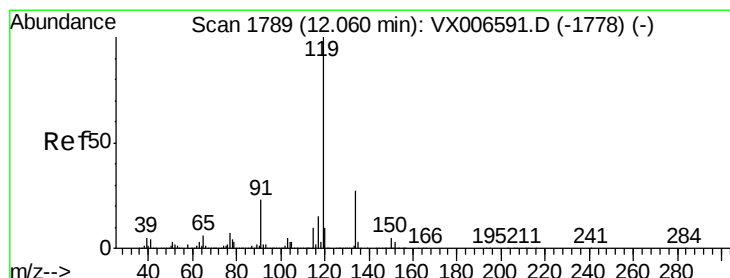
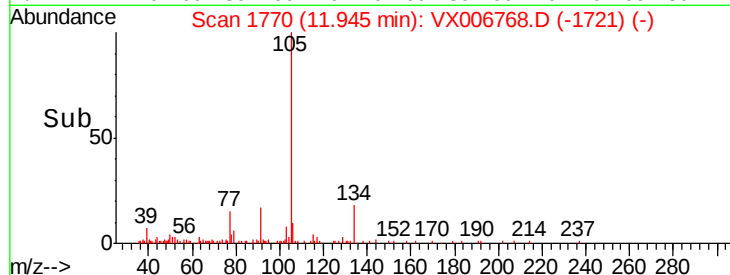
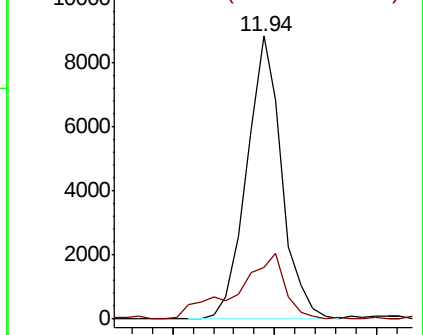
105 100

134 32.3 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.407 ug/l

RT: 12.23 min Scan# 1817

Delta R.T. 0.17 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

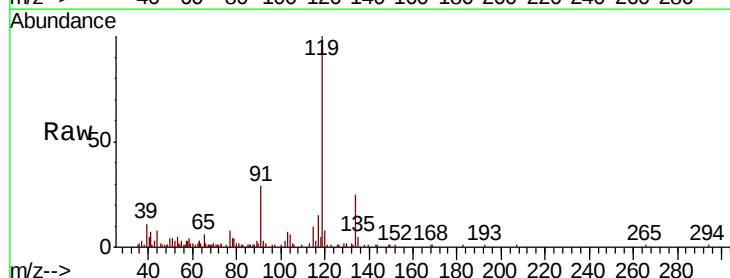
Tgt Ion:119 Resp: 10832

Ion Ratio Lower Upper

119 100

134 27.9 14.0 41.9

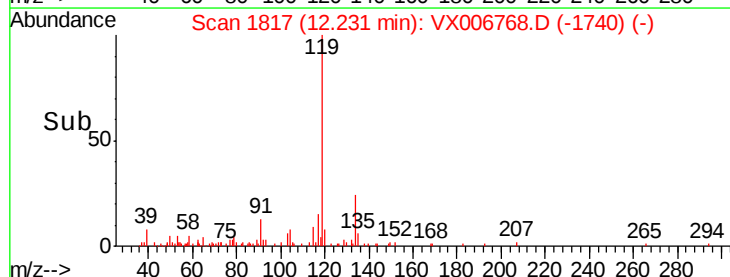
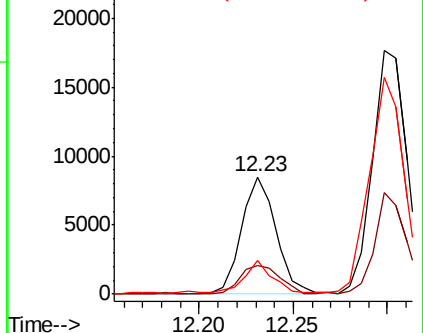
91 26.1 11.3 33.9

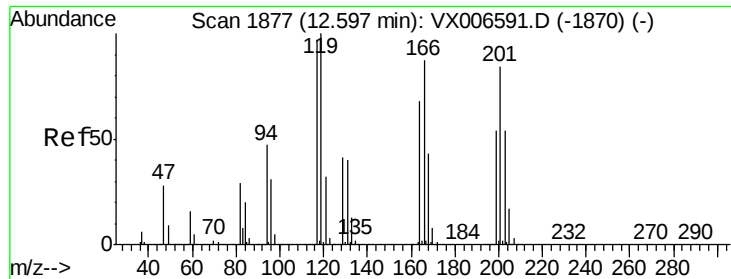


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#90

Hexachloroethane

Concen: 5.114 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX006768.D

Acq: 22 Dec 2018 13:30

Instrument :

MSVOA_X

ClientSampleId :

DUP-122018-02DL

Tot Ion:117 Resp: 8119

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#

