

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121418\
 Data File : VX006547.D
 Acq On : 15 Dec 2018 06:34
 Operator : JC/MD
 Sample : J6398-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01_121218

Quant Time: Dec 15 22:55:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	715120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1090538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	996082	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	488609	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	359624	49.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.52%	
35) Dibromofluoromethane	5.51	113	324816	46.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.00%	
50) Toluene-d8	8.71	98	1269986	49.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.13	95	469893	48.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.10%	

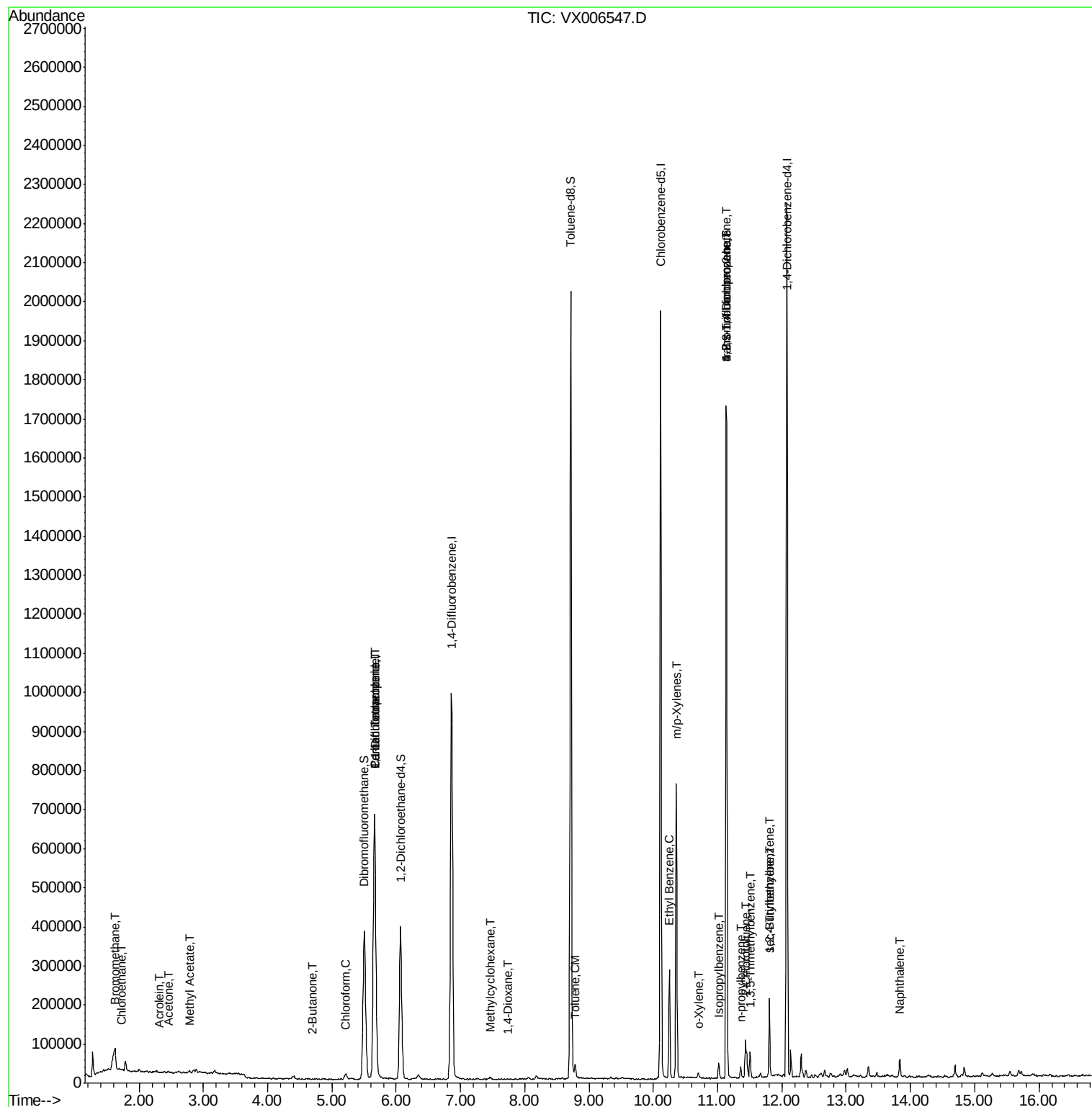
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	1655	0.308	ug/l #	30
6) Chloroethane	1.72	64	1942	0.409	ug/l #	55
13) Acrolein	2.31	56	439	0.402	ug/l #	13
16) Acetone	2.45	43	4264	1.245	ug/l #	85
18) Methyl Acetate	2.78	43	4577	0.399	ug/l #	79
25) 2-Butanone	4.70	43	1467	0.300	ug/l #	47
30) Chloroform	5.21	83	16841	1.404	ug/l	98
36) 1,1-Dichloropropene	5.67	75	45357	4.939	ug/l #	48
38) Carbon Tetrachloride	5.66	117	65262	6.041	ug/l #	16
39) Methylcyclohexane	7.46	83	2746	0.230	ug/l #	83
49) 1,4-Dioxane	7.74	88	135	0.657	ug/l #	1
52) Toluene	8.79	92	11573	0.640	ug/l	95
67) Ethyl Benzene	10.25	91	163313	4.644	ug/l	100
68) m/p-Xylenes	10.36	106	190013	13.488	ug/l	99
69) o-Xylene	10.70	106	2836	0.204	ug/l	74
73) Isopropylbenzene	11.02	105	21484	0.637	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	211754	22.453	ug/l #	37
78) n-propylbenzene	11.36	91	17285	0.461	ug/l	100
79) 2-Chlorotoluene	11.43	91	9683	0.434	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.51	105	27782	0.990	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	211754	52.691	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	89036	3.071	ug/l	100
85) sec-Butylbenzene	11.80	105	89036	2.613	ug/l #	54
95) Naphthalene	13.83	128	32430	0.864	ug/l #	95

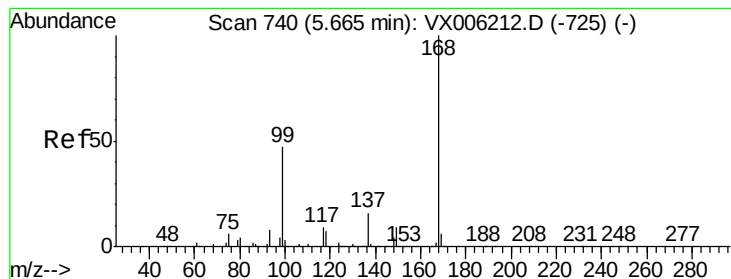
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

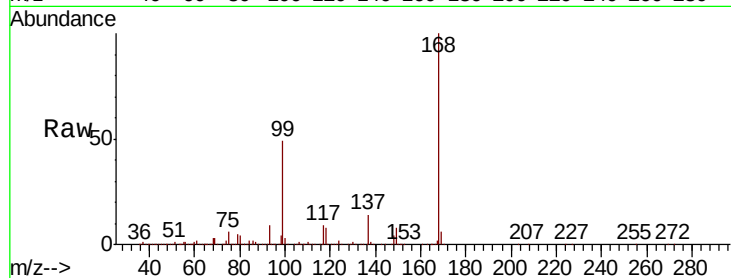
DUP-01_121218

Tgt Ion:168 Resp: 715120

Ion Ratio Lower Upper

168 100

99 48.5 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

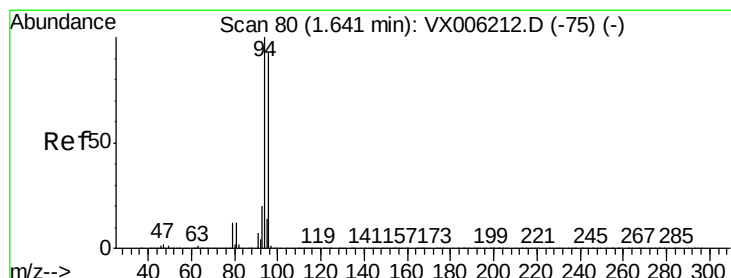
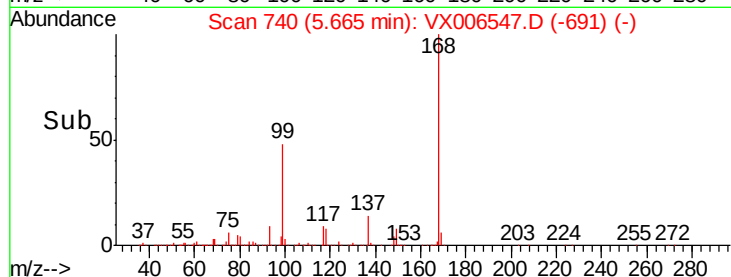
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.308 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.02 min

Lab File: VX006547.D

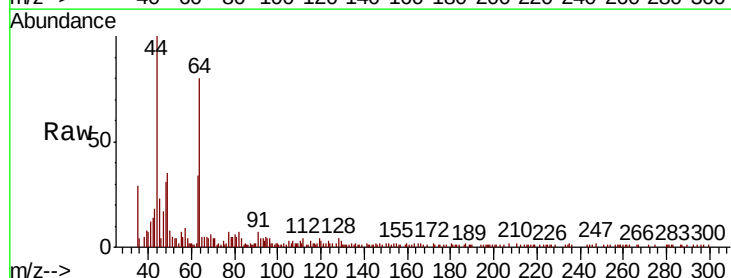
Acq: 15 Dec 2018 06:34

Tgt Ion: 94 Resp: 1655

Ion Ratio Lower Upper

94 100

96 25.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

1000

800

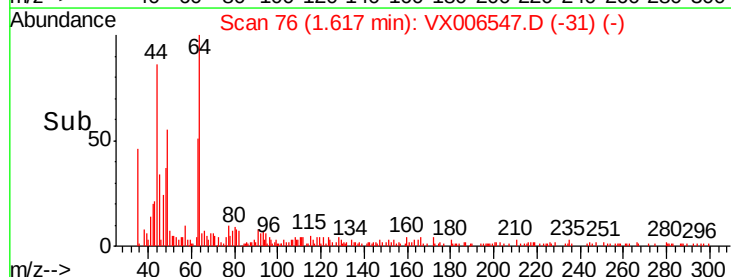
600

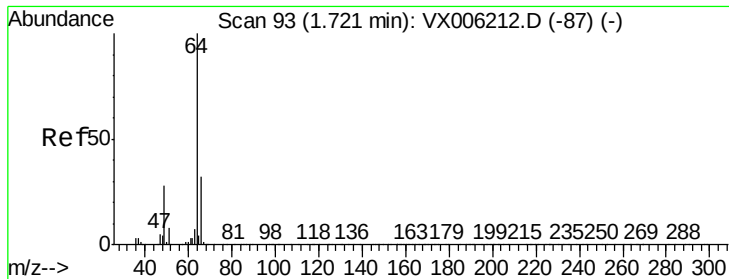
400

200

0

Time--> 1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.409 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

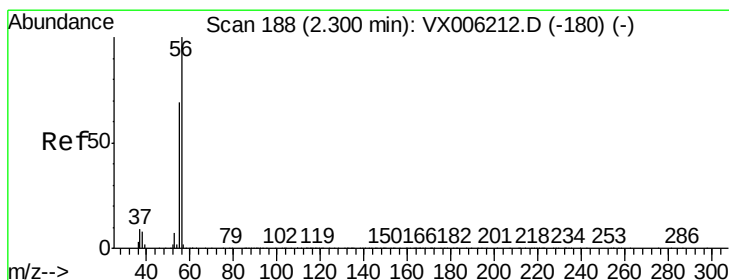
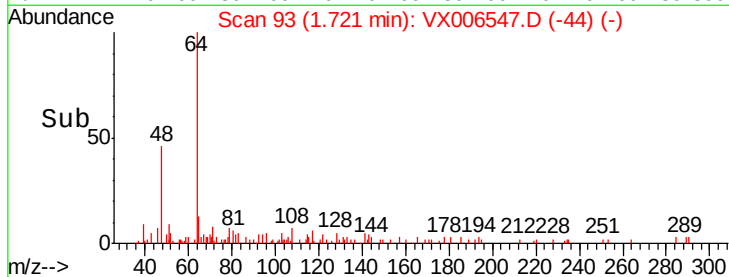
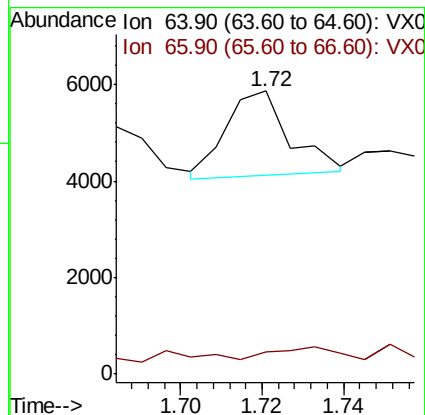
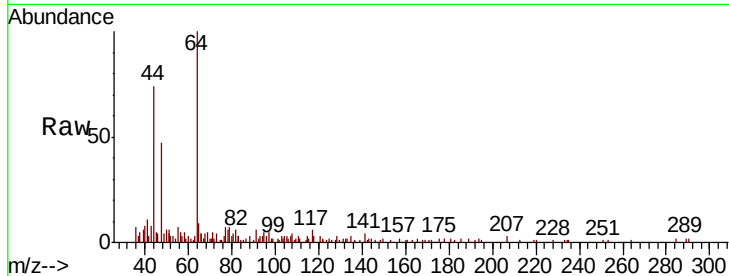
DUP-01_121218

Tgt Ion: 64 Resp: 1942

Ion Ratio Lower Upper

64 100

66 7.1 25.9 38.9#



#13

Acrolein

Concen: 0.402 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX006547.D

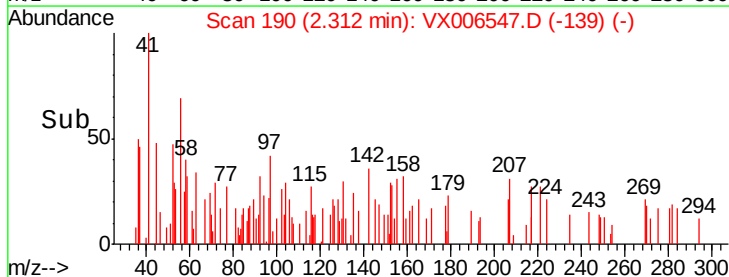
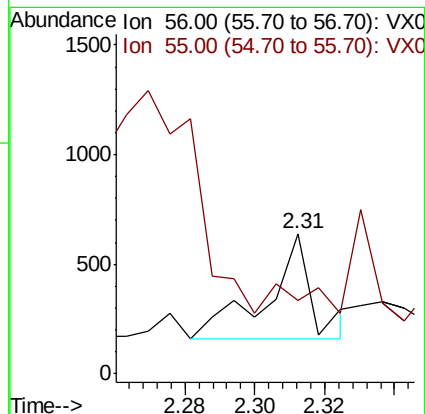
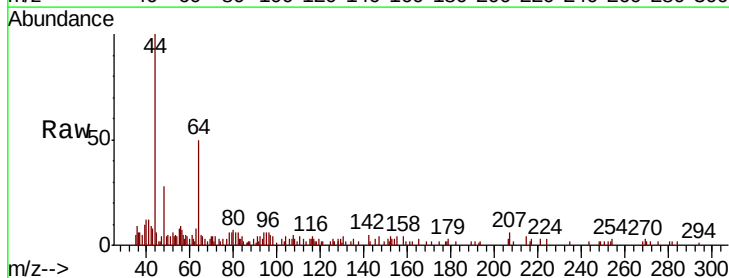
Acq: 15 Dec 2018 06:34

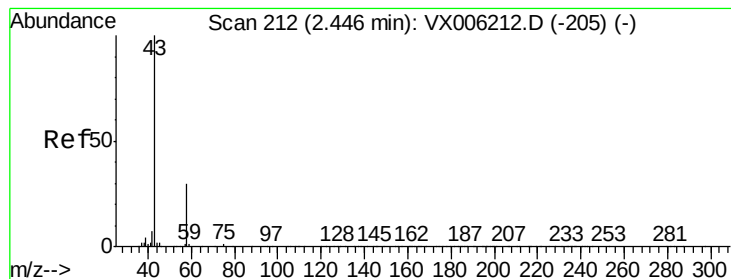
Tgt Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#





#16

Acetone

Concen: 1.245 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

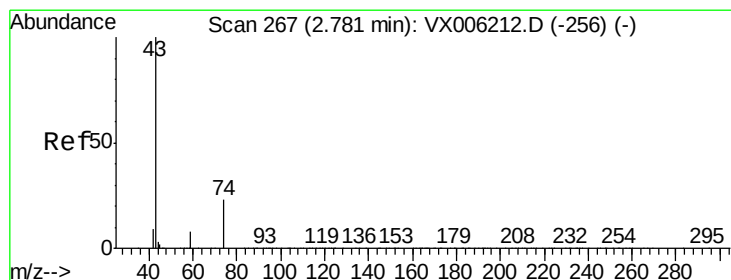
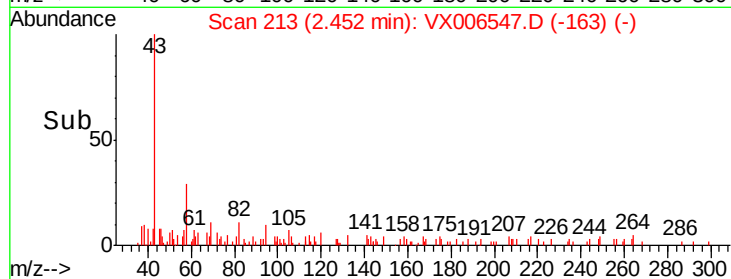
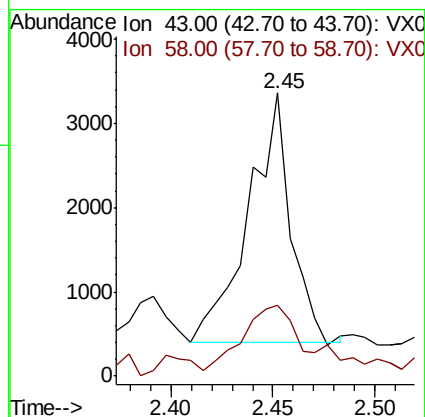
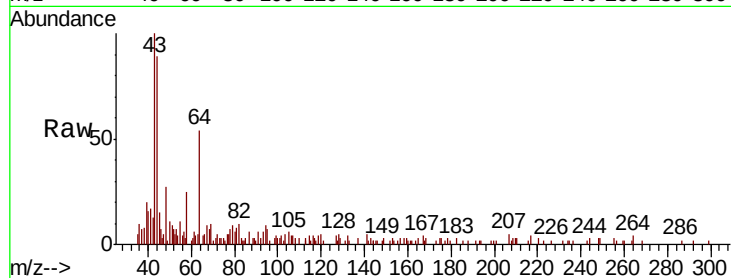
DUP-01_121218

Tgt Ion: 43 Resp: 4264

Ion Ratio Lower Upper

43 100

58 22.1 24.0 36.0#



#18

Methyl Acetate

Concen: 0.399 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006547.D

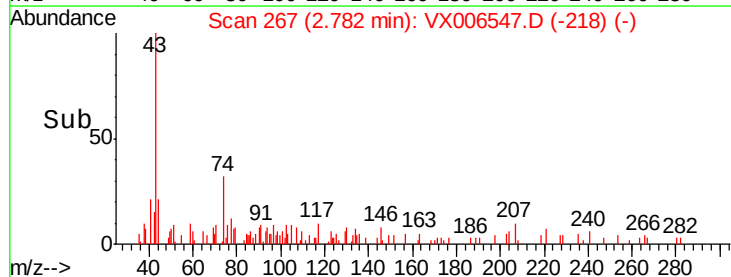
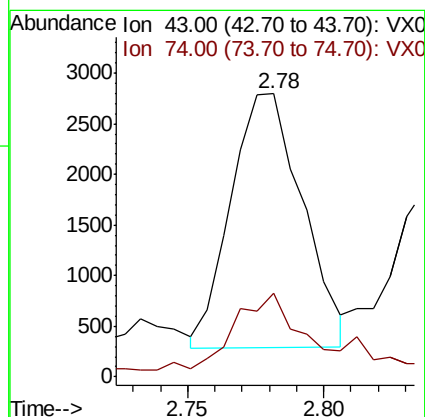
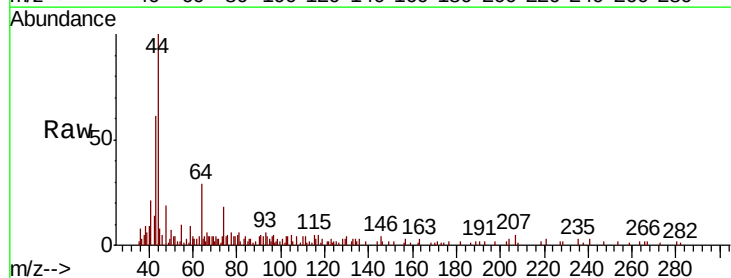
Acq: 15 Dec 2018 06:34

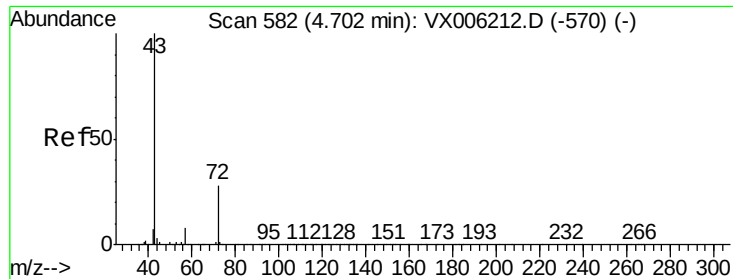
Tgt Ion: 43 Resp: 4577

Ion Ratio Lower Upper

43 100

74 32.7 17.9 26.9#





#25

2-Butanone

Concen: 0.300 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

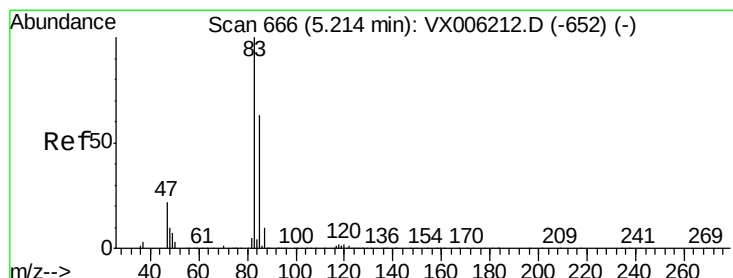
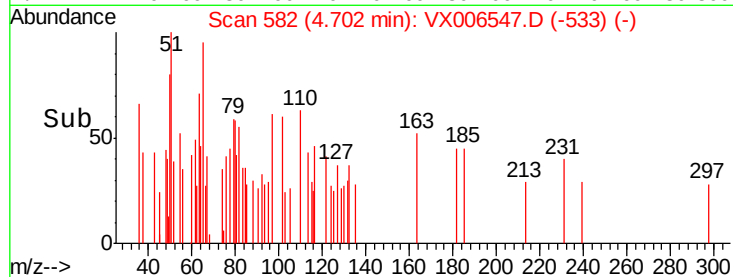
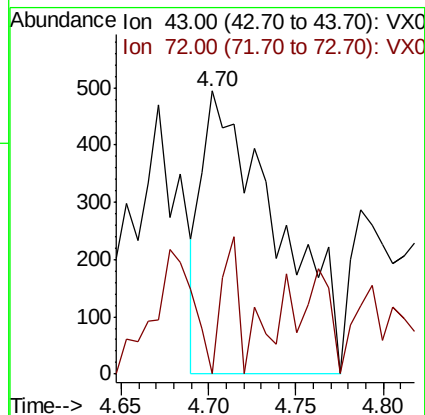
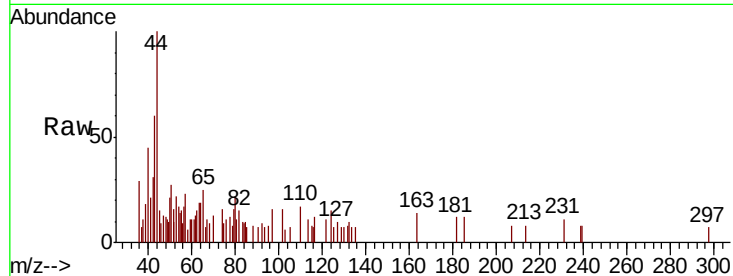
DUP-01_121218

Tgt Ion: 43 Resp: 1467

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



#30

Chloroform

Concen: 1.404 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX006547.D

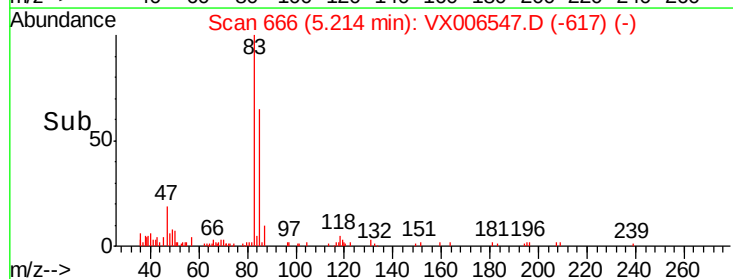
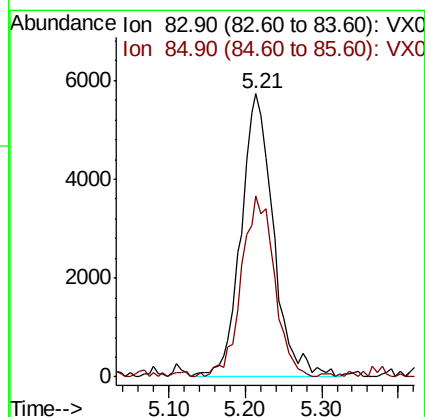
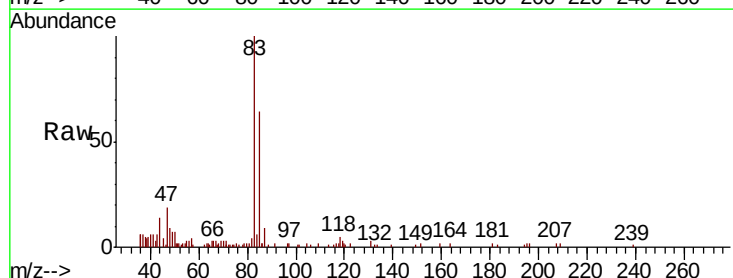
Acq: 15 Dec 2018 06:34

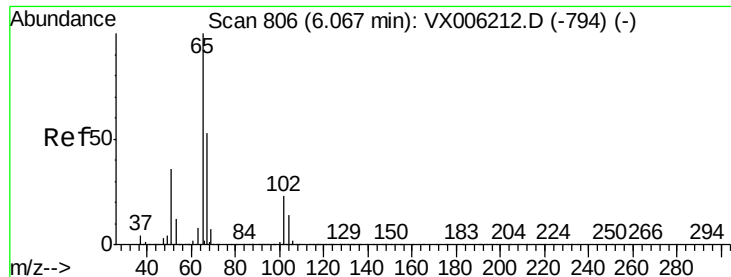
Tgt Ion: 83 Resp: 16841

Ion Ratio Lower Upper

83 100

85 64.1 50.3 75.5

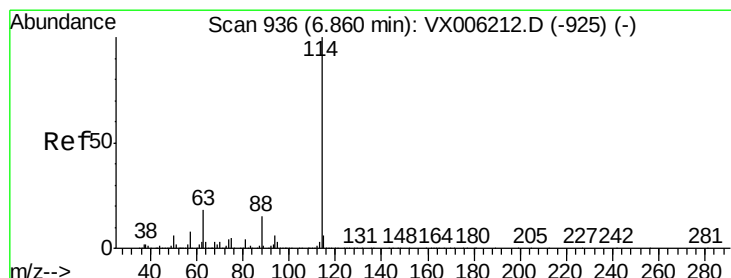
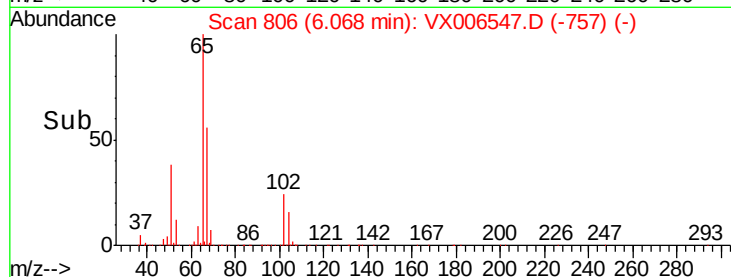
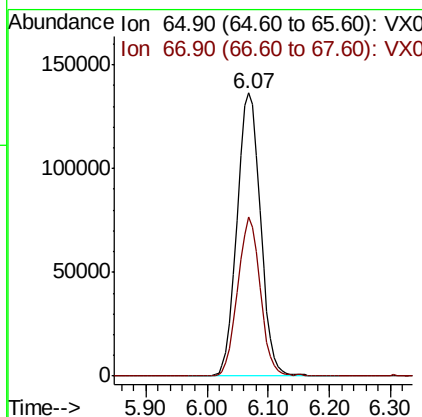
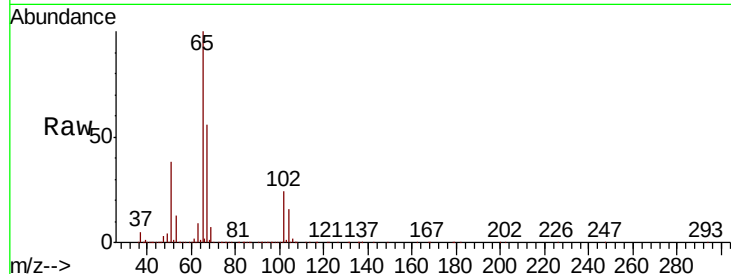




#33
 1,2-Dichloroethane-d4
 Concen: 49.262 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006547.D
 Acq: 15 Dec 2018 06:34

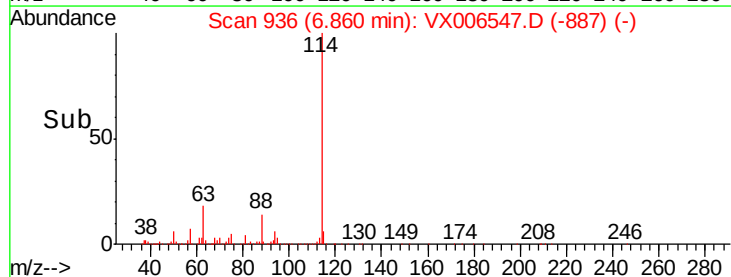
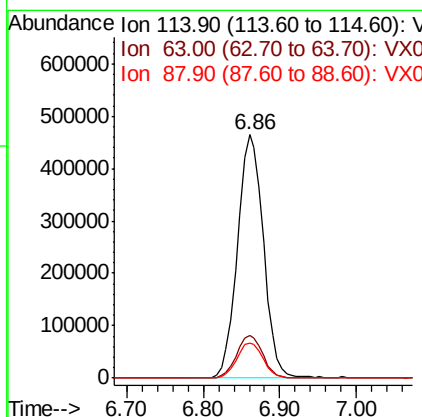
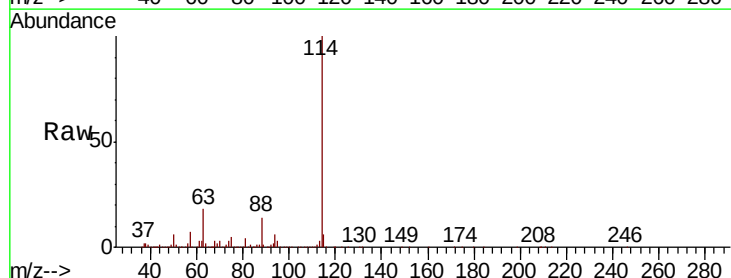
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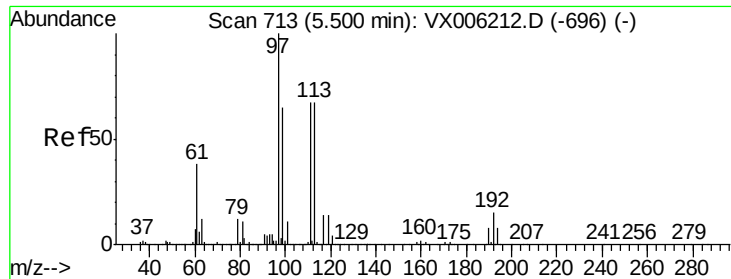
Tgt Ion: 65 Resp: 359624
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006547.D
 Acq: 15 Dec 2018 06:34

Tgt Ion: 114 Resp: 1090538
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 36.6
 88 14.2 0.0 29.0





#35

Dibromofluoromethane

Concen: 46.003 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_121218

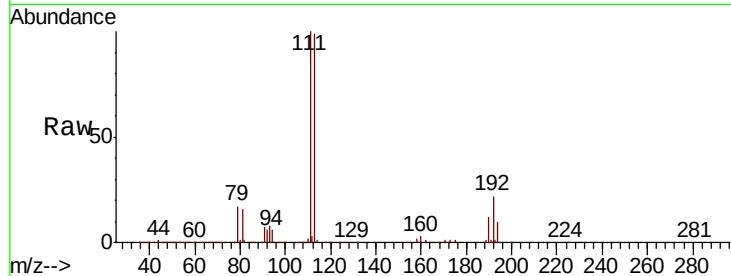
Tgt Ion:113 Resp: 324816

Ion Ratio Lower Upper

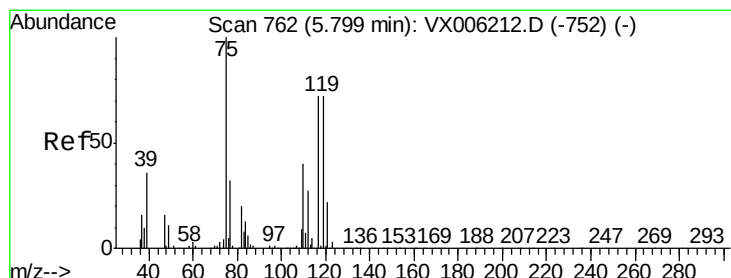
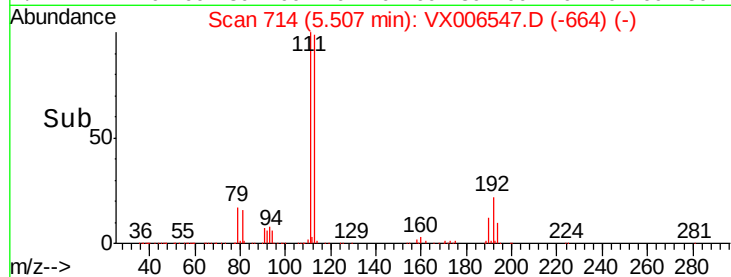
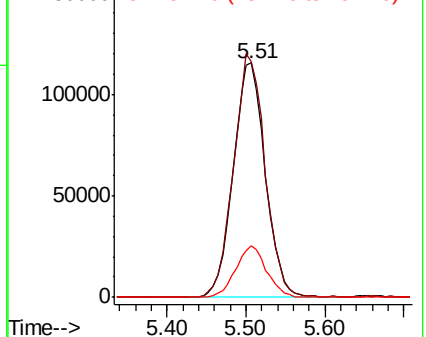
113 100

111 102.3 81.1 121.7

192 21.3 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.939 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

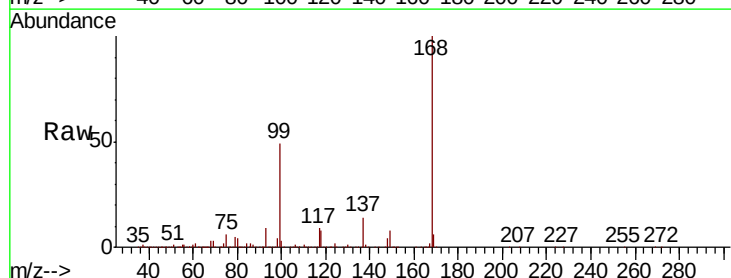
Tgt Ion: 75 Resp: 45357

Ion Ratio Lower Upper

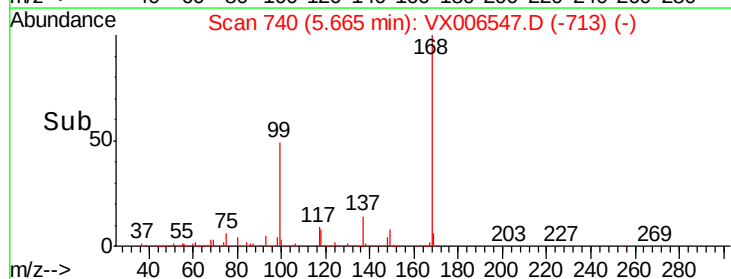
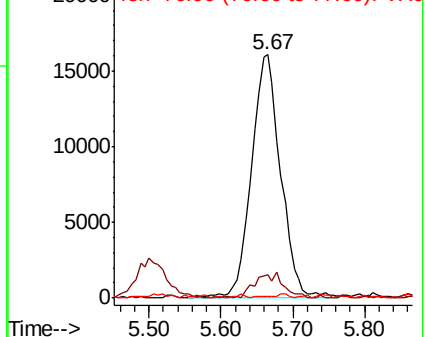
75 100

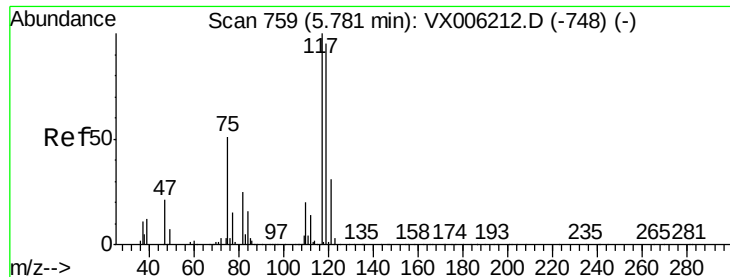
110 10.1 20.4 61.3#

77 0.6 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.041 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

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ClientSampleId :

DUP-01_121218

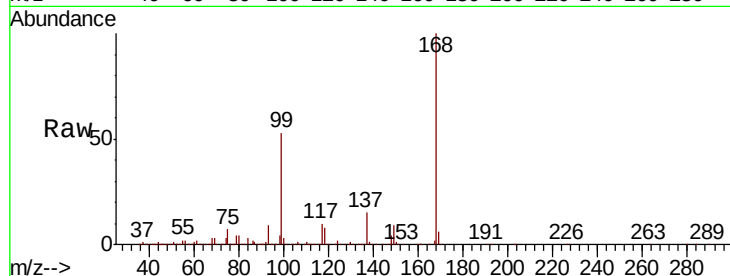
Tgt Ion:117 Resp: 65262

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.8#

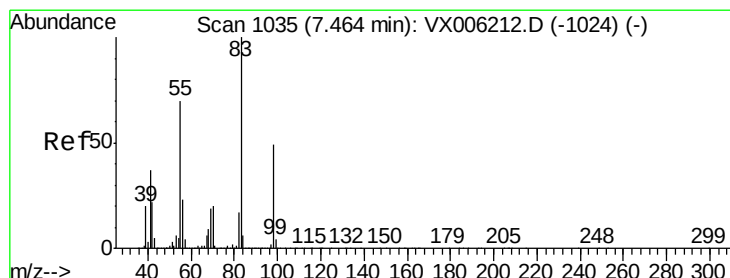
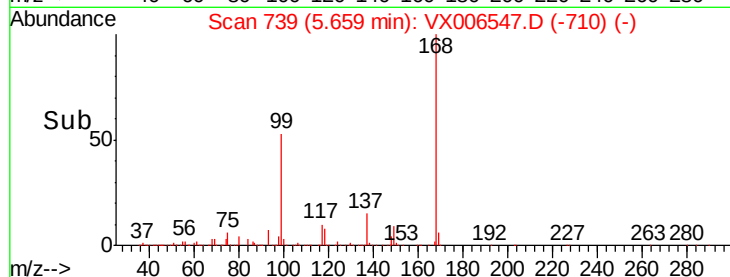
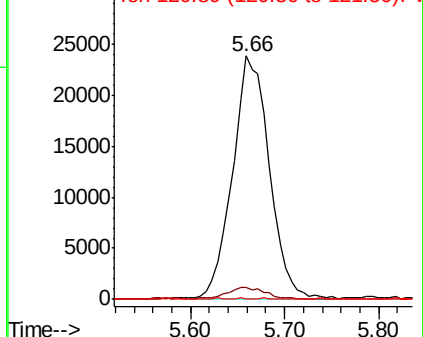
121 0.0 24.6 37.0#



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: 0.230 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

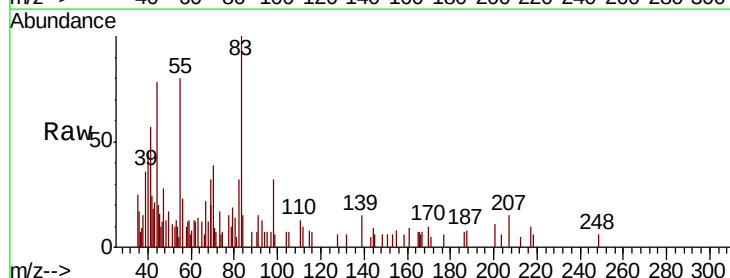
Tgt Ion: 83 Resp: 2746

Ion Ratio Lower Upper

83 100

55 79.7 56.4 84.6

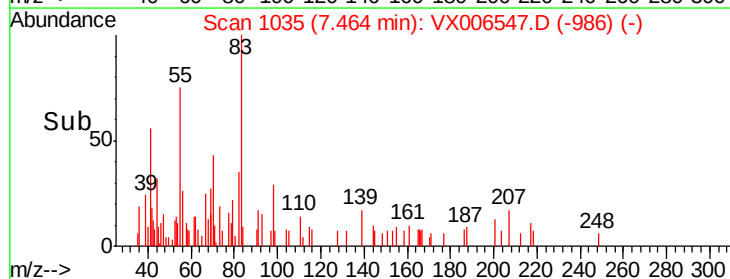
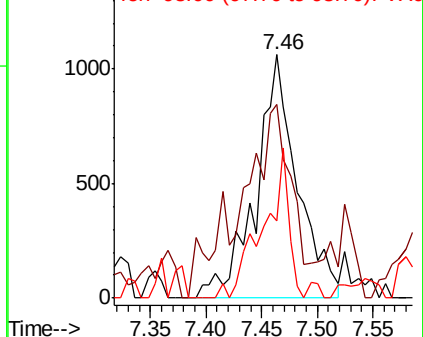
98 31.6 39.0 58.6#

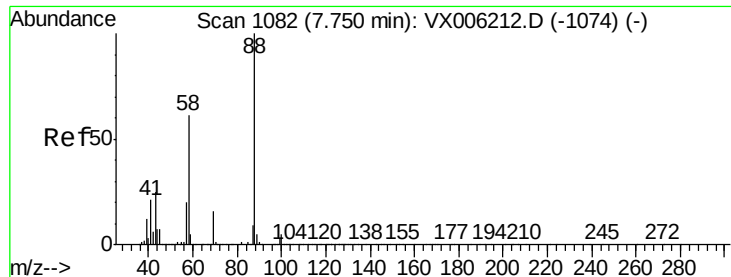


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

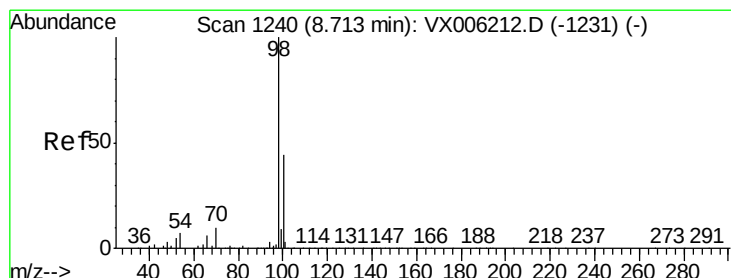
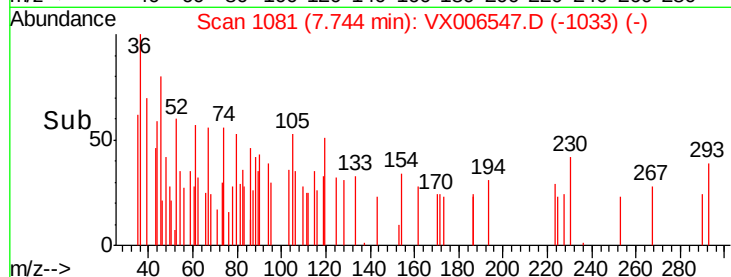
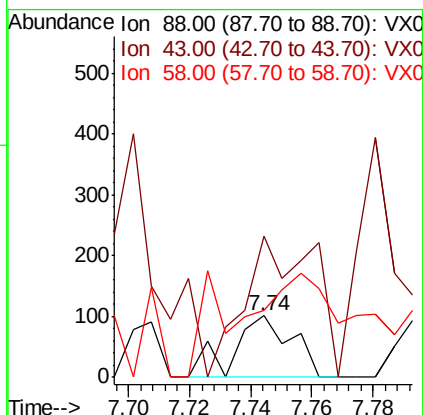
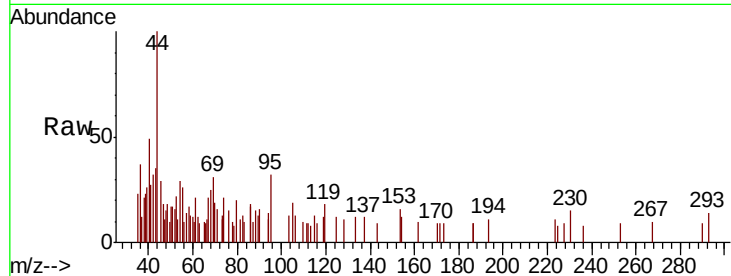




#49
1,4-Dioxane
Concen: 0.657 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006547.D
Acq: 15 Dec 2018 06:34

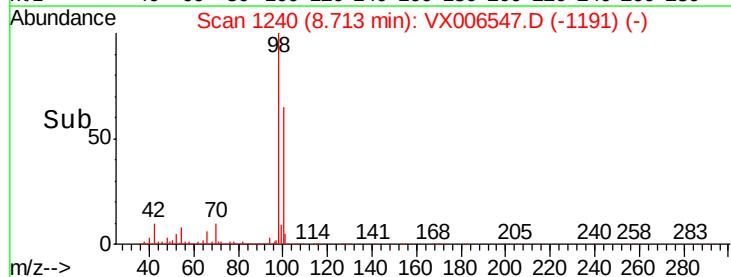
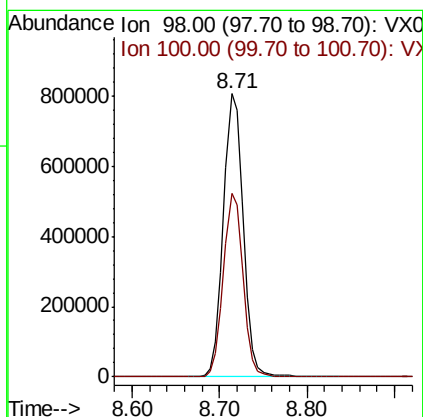
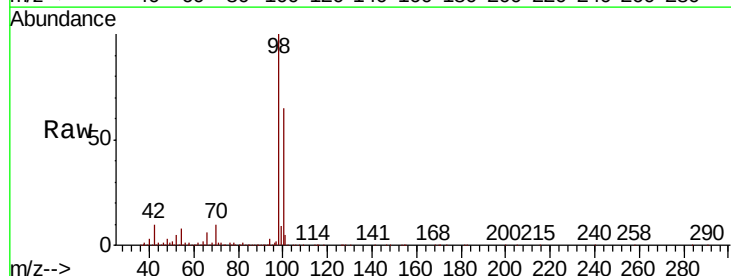
Instrument :
MSVOA_X
ClientSampled :
DUP-01_121218

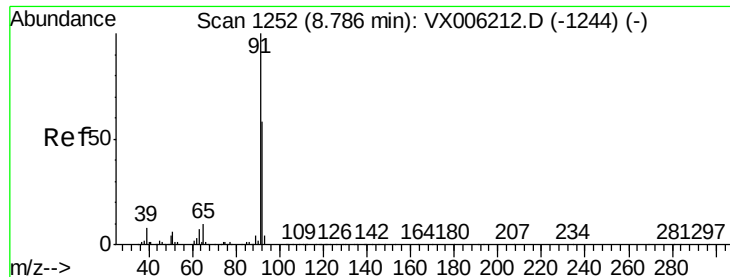
Tgt Ion: 88 Resp: 135
Ion Ratio Lower Upper
88 100
43 271.1 23.2 34.8#
58 174.8 51.4 77.0#



#50
Toluene-d8
Concen: 49.448 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006547.D
Acq: 15 Dec 2018 06:34

Tgt Ion: 98 Resp: 1269986
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2





#52

Toluene

Concen: 0.640 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

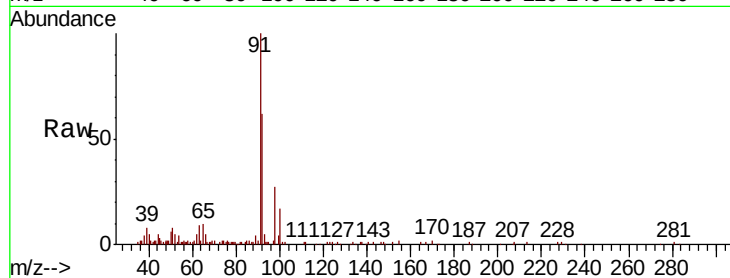
DUP-01_121218

Tgt Ion: 92 Resp: 11573

Ion Ratio Lower Upper

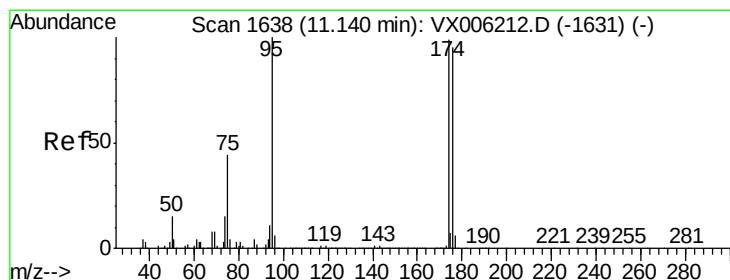
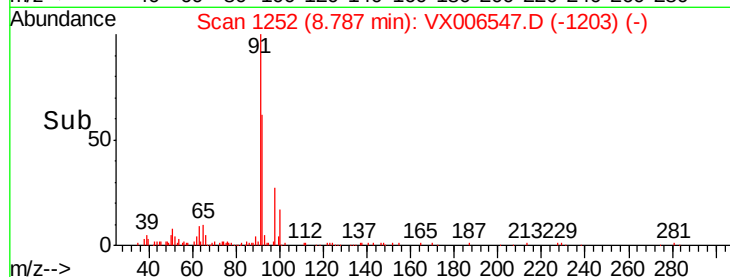
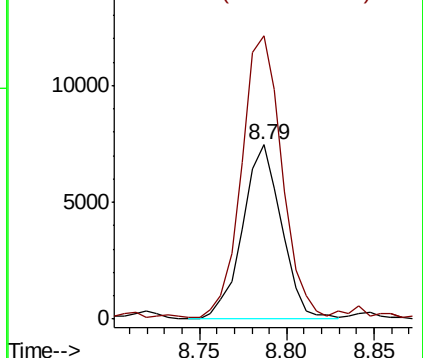
92 100

91 166.6 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.552 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

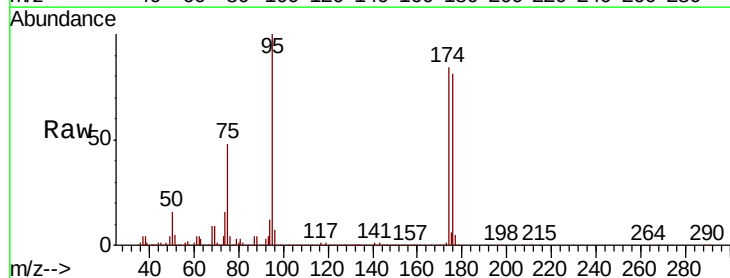
Tgt Ion: 95 Resp: 469893

Ion Ratio Lower Upper

95 100

174 88.5 0.0 187.0

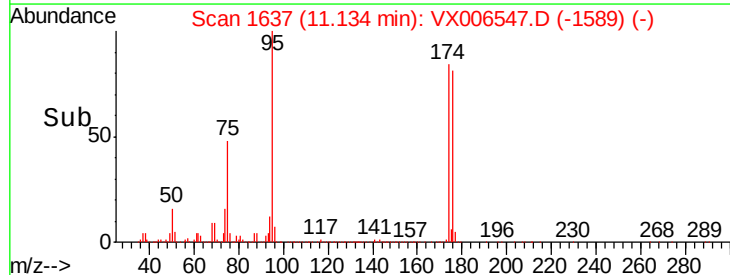
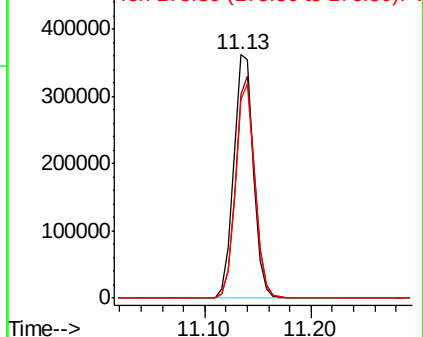
176 85.8 0.0 181.8

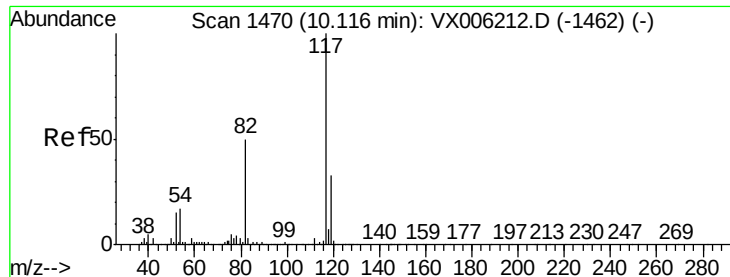


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

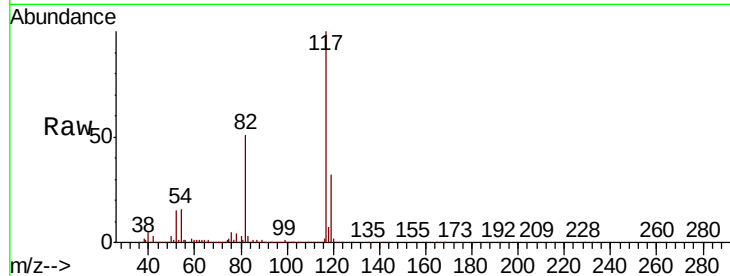




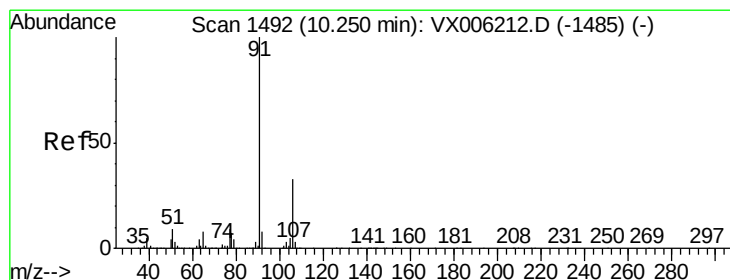
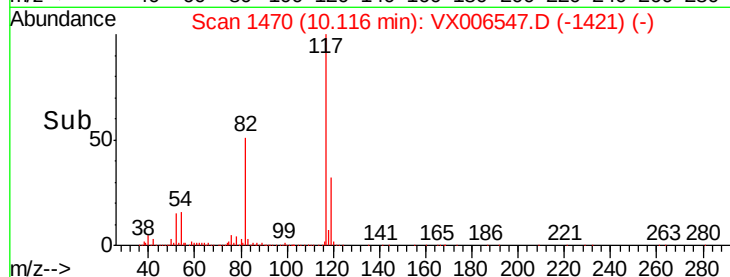
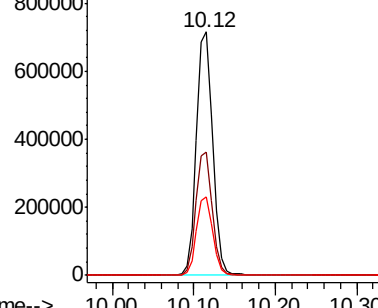
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006547.D
Acq: 15 Dec 2018 06:34

Instrument :
MSVOA_X
ClientSampleId :
DUP-01_121218

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.8	39.6	59.4
119	32.2	26.3	39.5

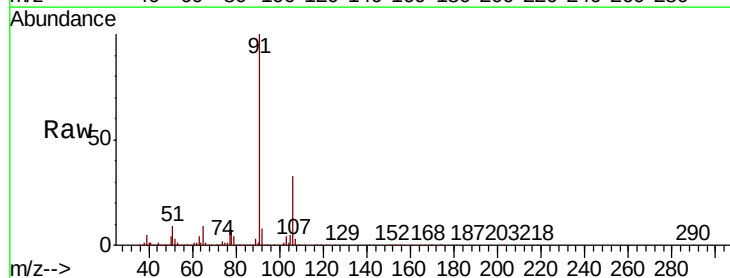


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

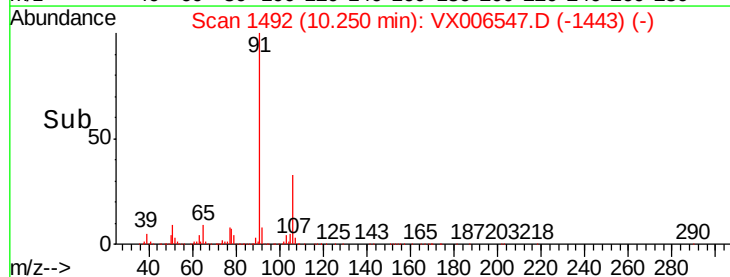
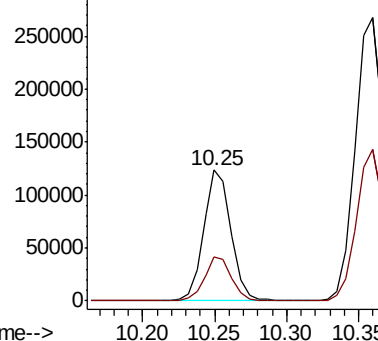


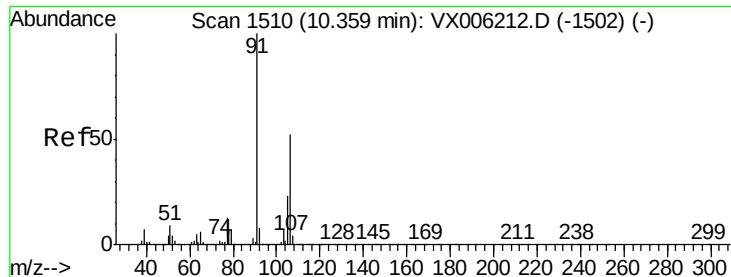
#67
Ethyl Benzene
Concen: 4.644 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX006547.D
Acq: 15 Dec 2018 06:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.3	26.5	39.7



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 13.488 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

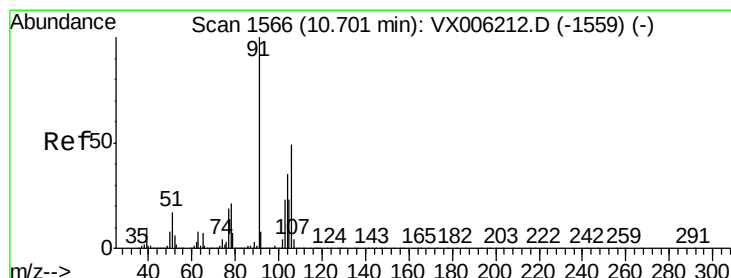
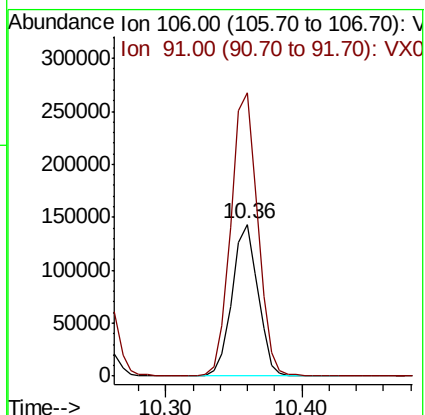
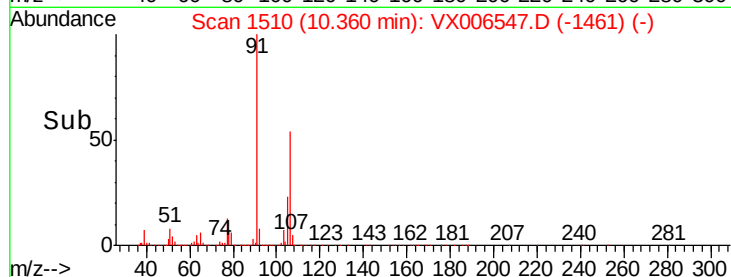
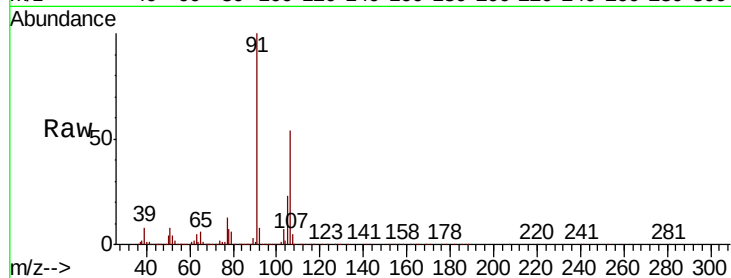
DUP-01_121218

Tgt Ion:106 Resp: 190013

Ion Ratio Lower Upper

106 100

91 192.8 155.2 232.8



#69

o-Xylene

Concen: 0.204 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VX006547.D

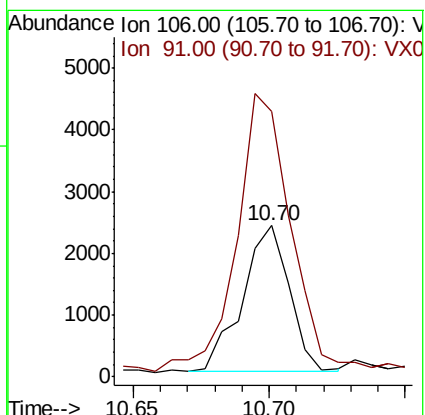
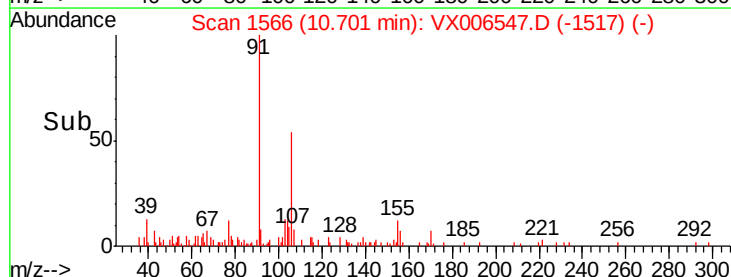
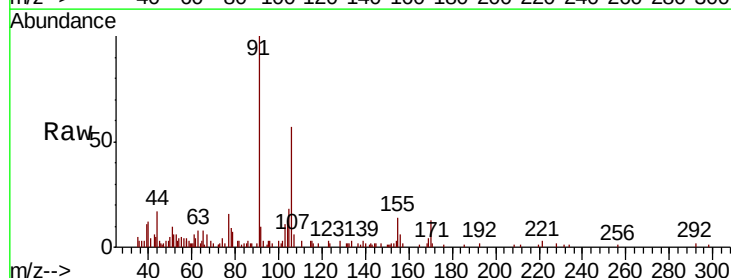
Acq: 15 Dec 2018 06:34

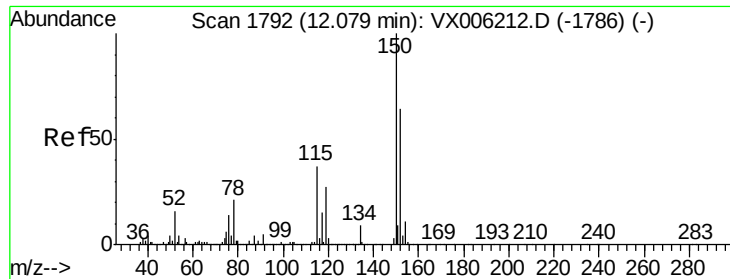
Tgt Ion:106 Resp: 2836

Ion Ratio Lower Upper

106 100

91 243.1 101.8 305.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_121218

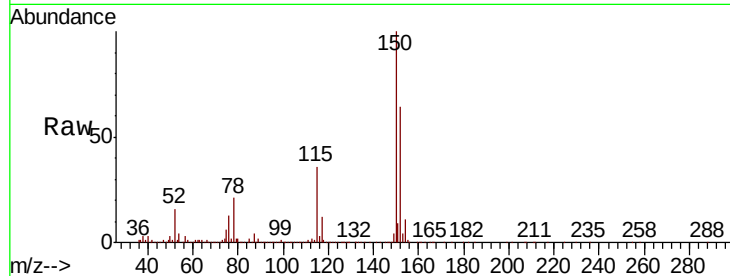
Tgt Ion:152 Resp: 488609

Ion Ratio Lower Upper

152 100

115 56.1 39.0 116.9

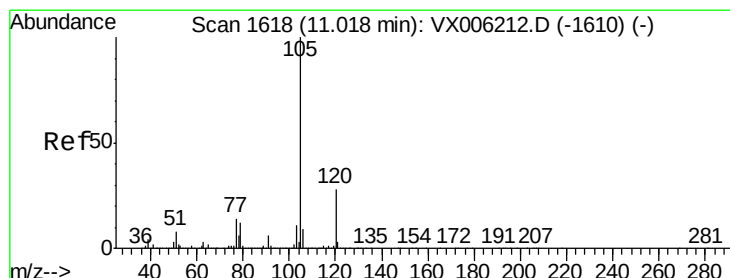
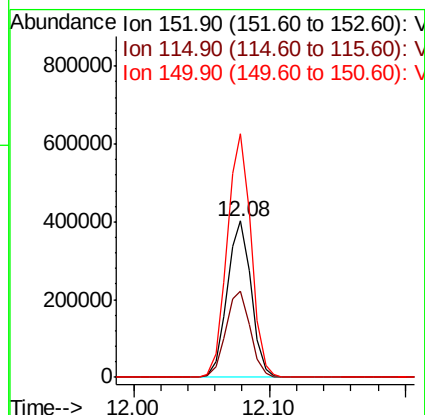
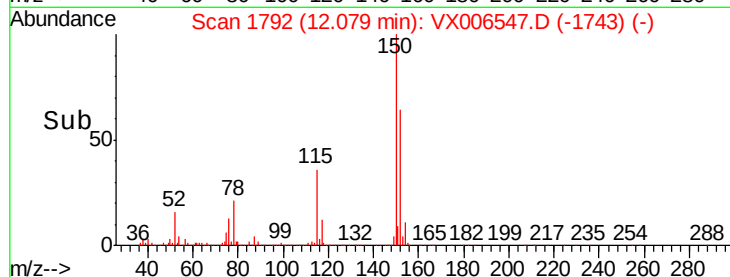
150 156.0 0.0 345.8



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: 0.637 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX006547.D

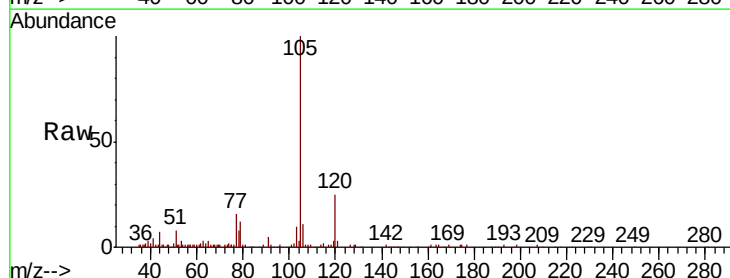
Acq: 15 Dec 2018 06:34

Tgt Ion:105 Resp: 21484

Ion Ratio Lower Upper

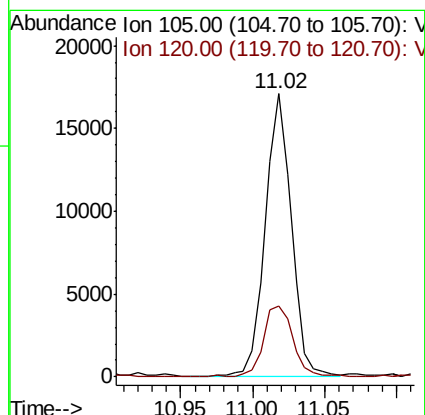
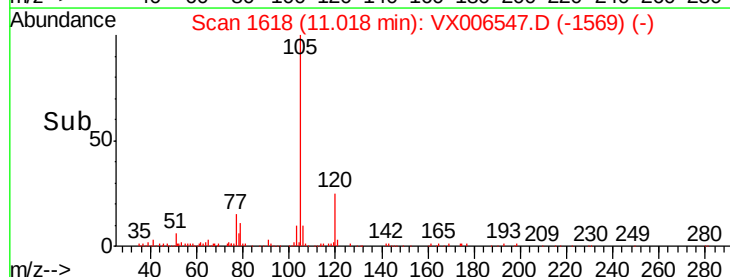
105 100

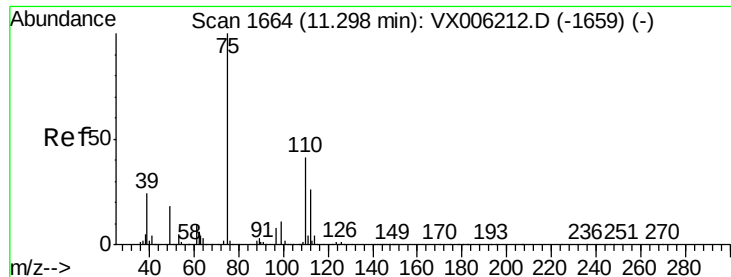
120 28.2 14.1 42.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 22.453 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

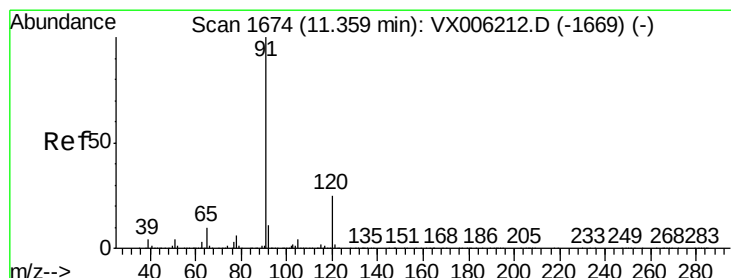
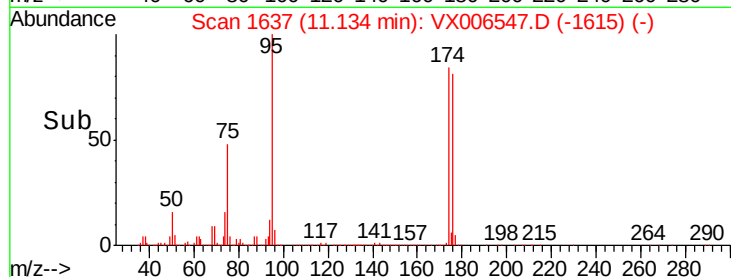
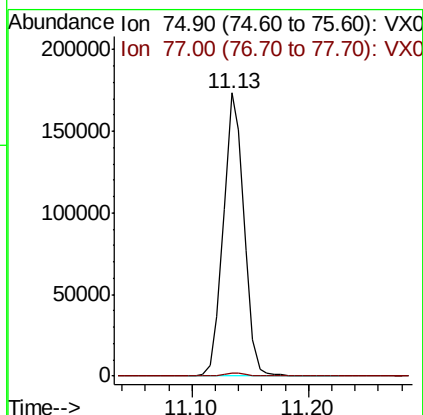
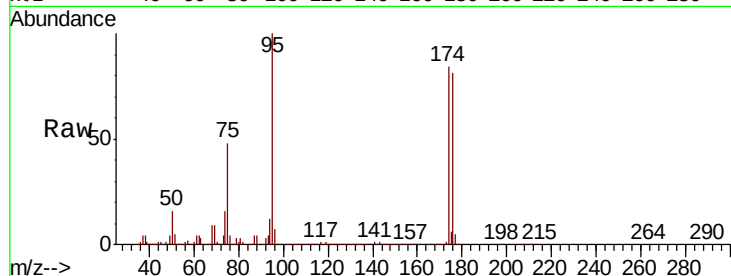
DUP-01_121218

Tgt Ion: 75 Resp: 211754

Ion Ratio Lower Upper

75 100

77 1.3 19.9 59.7#



#78

n-propylbenzene

Concen: 0.461 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX006547.D

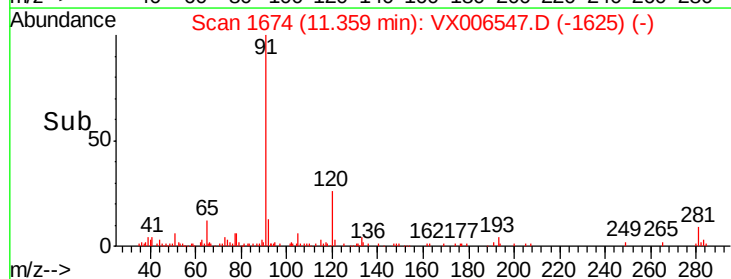
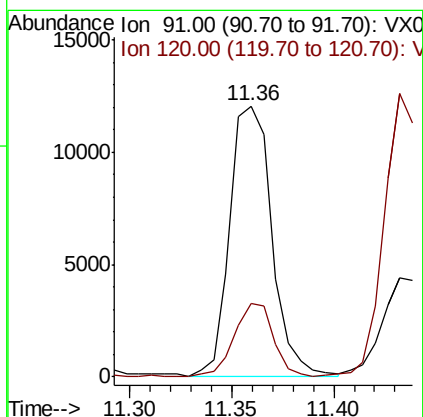
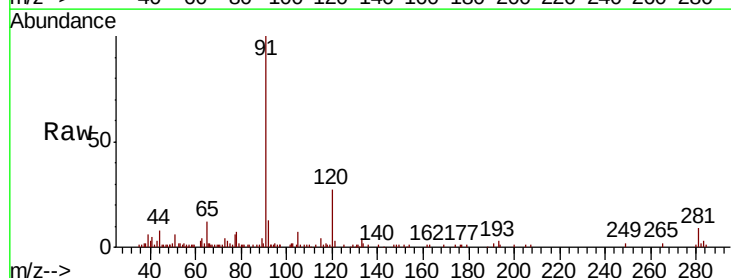
Acq: 15 Dec 2018 06:34

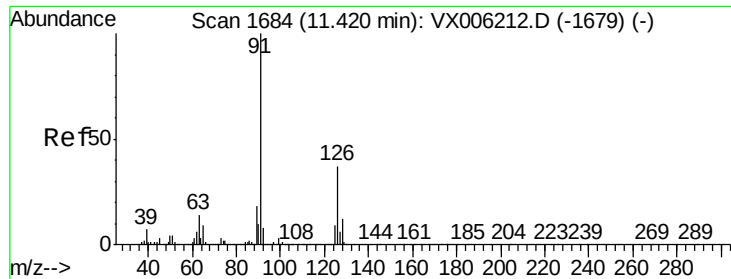
Tgt Ion: 91 Resp: 17285

Ion Ratio Lower Upper

91 100

120 25.3 12.7 38.0

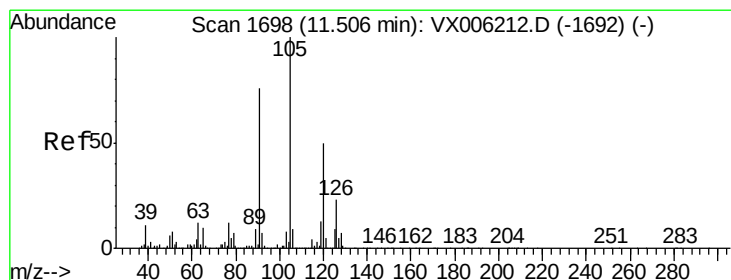
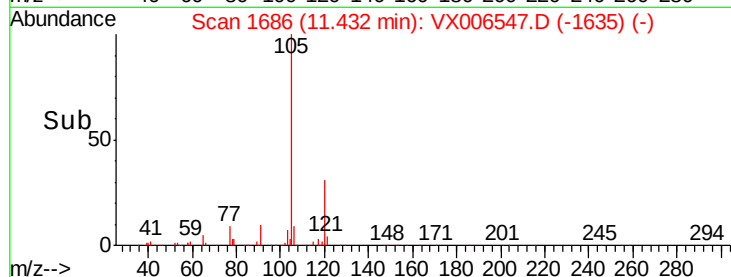
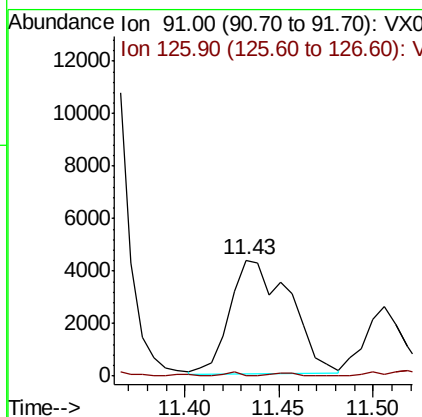
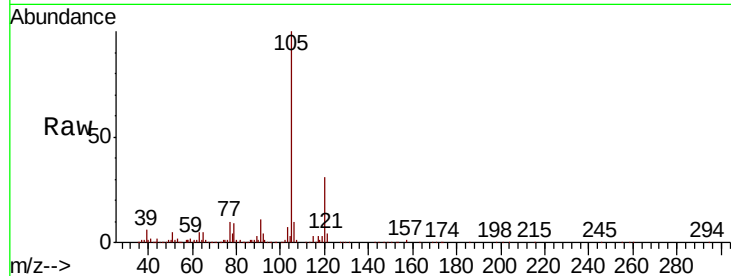




#79
 2-Chlorotoluene
 Concen: 0.434 ug/l
 RT: 11.43 min Scan# 1686
 Delta R.T. 0.01 min
 Lab File: VX006547.D
 Acq: 15 Dec 2018 06:34

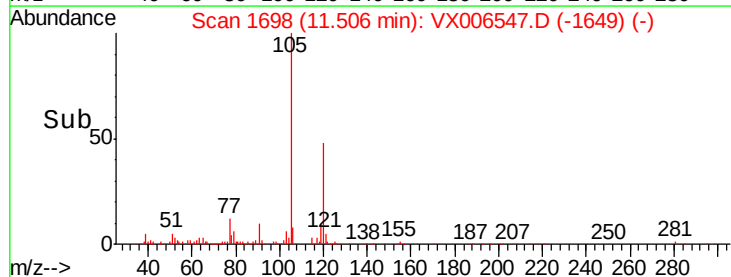
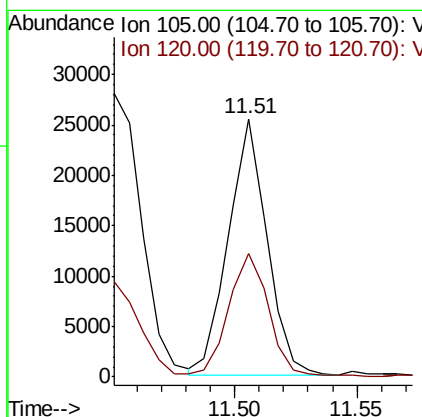
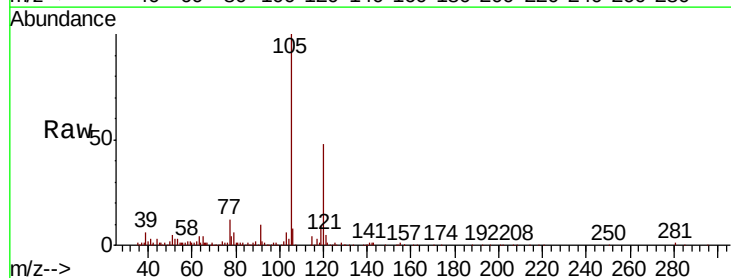
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01_121218

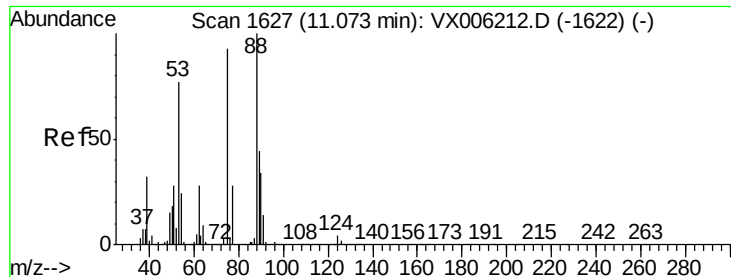
Tgt Ion: 91 Resp: 9683
 Ion Ratio Lower Upper
 91 100
 126 0.9 18.6 56.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.990 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006547.D
 Acq: 15 Dec 2018 06:34

Tgt Ion: 105 Resp: 27782
 Ion Ratio Lower Upper
 105 100
 120 49.9 25.4 76.0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.691 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_121218

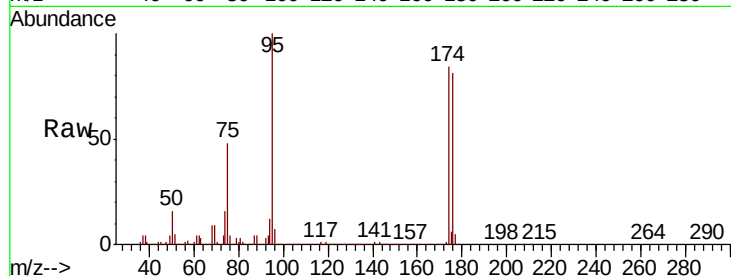
Tgt Ion: 75 Resp: 211754

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

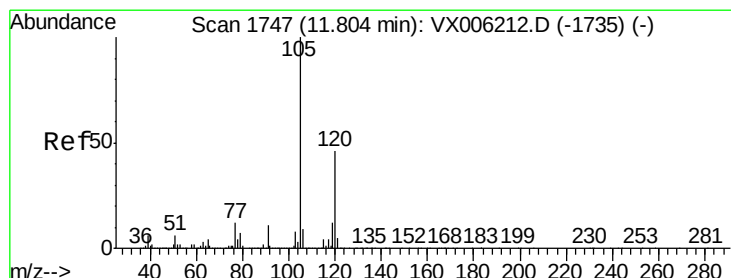
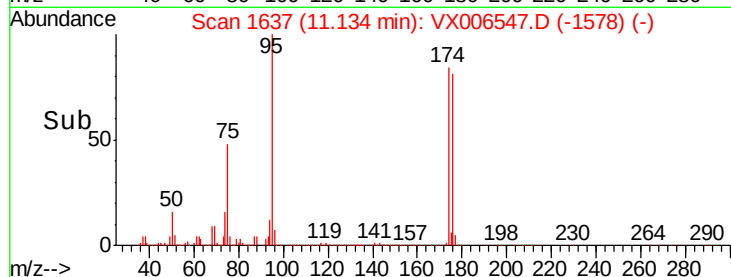
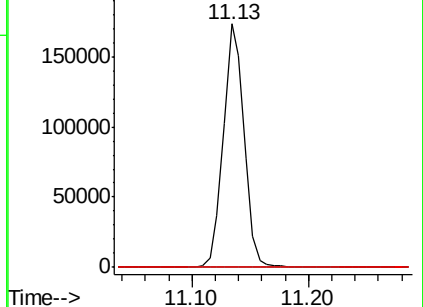
89 0.1 44.2 66.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 3.071 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006547.D

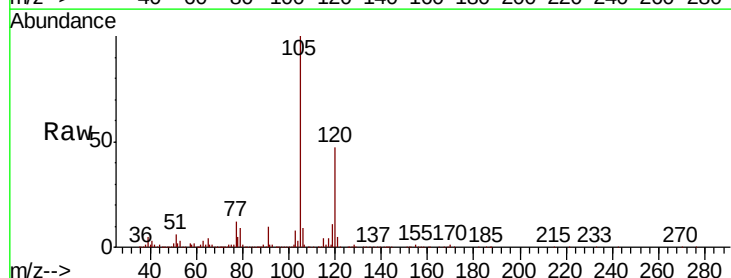
Acq: 15 Dec 2018 06:34

Tgt Ion: 105 Resp: 89036

Ion Ratio Lower Upper

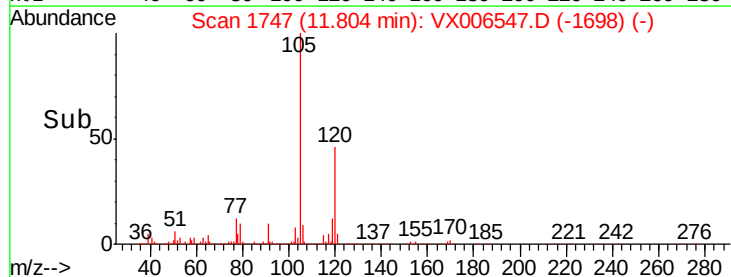
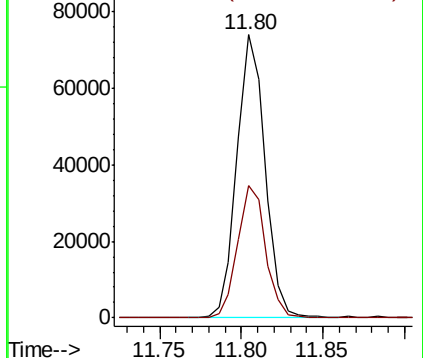
105 100

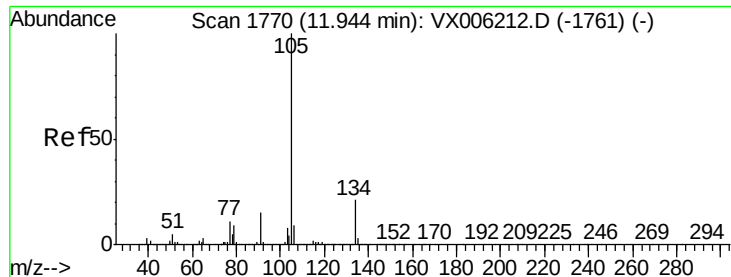
120 46.9 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.613 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.14 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

Instrument :

MSVOA_X

ClientSampleId :

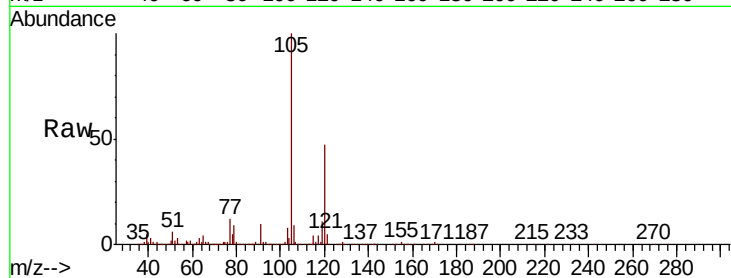
DUP-01_121218

Tgt Ion:105 Resp: 89036

Ion Ratio Lower Upper

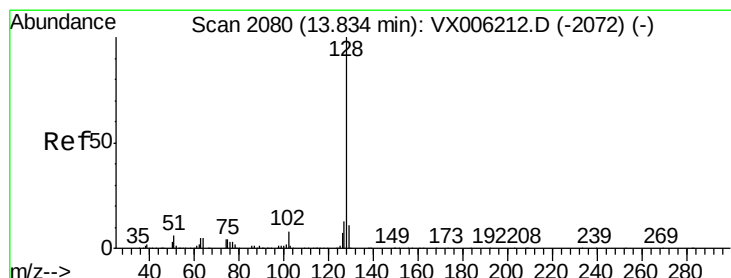
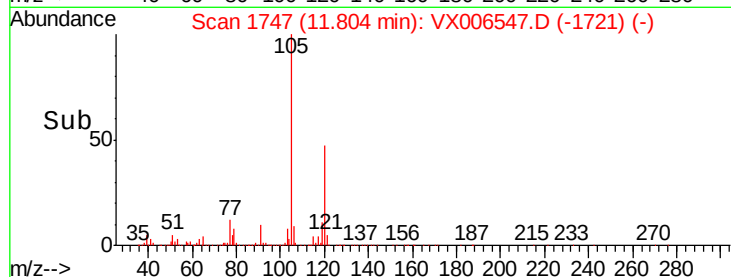
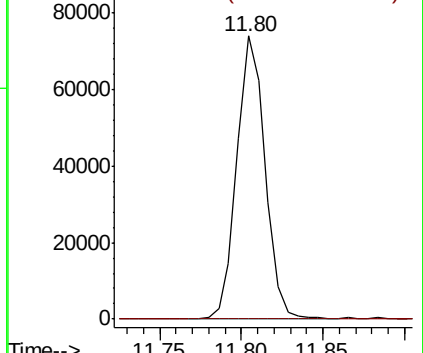
105 100

134 0.1 10.8 32.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 0.864 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006547.D

Acq: 15 Dec 2018 06:34

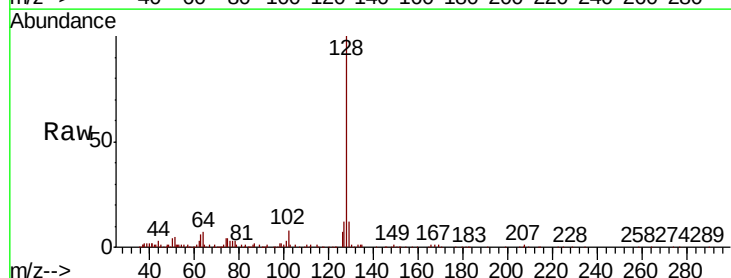
Tgt Ion:128 Resp: 32430

Ion Ratio Lower Upper

128 100

127 14.2 10.2 15.4

129 13.3 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

