

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025698.D
 Acq On : 28 Jul 2018 03:25
 Operator : MD/SY
 Sample : J4154-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0505

Quant Time: Jul 30 08:58:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	174277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	274682	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	266721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	166681	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	134049	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
35) Dibromofluoromethane	4.89	113	113143	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
50) Toluene-d8	7.57	98	396114	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
62) 4-Bromofluorobenzene	10.31	95	157187	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	

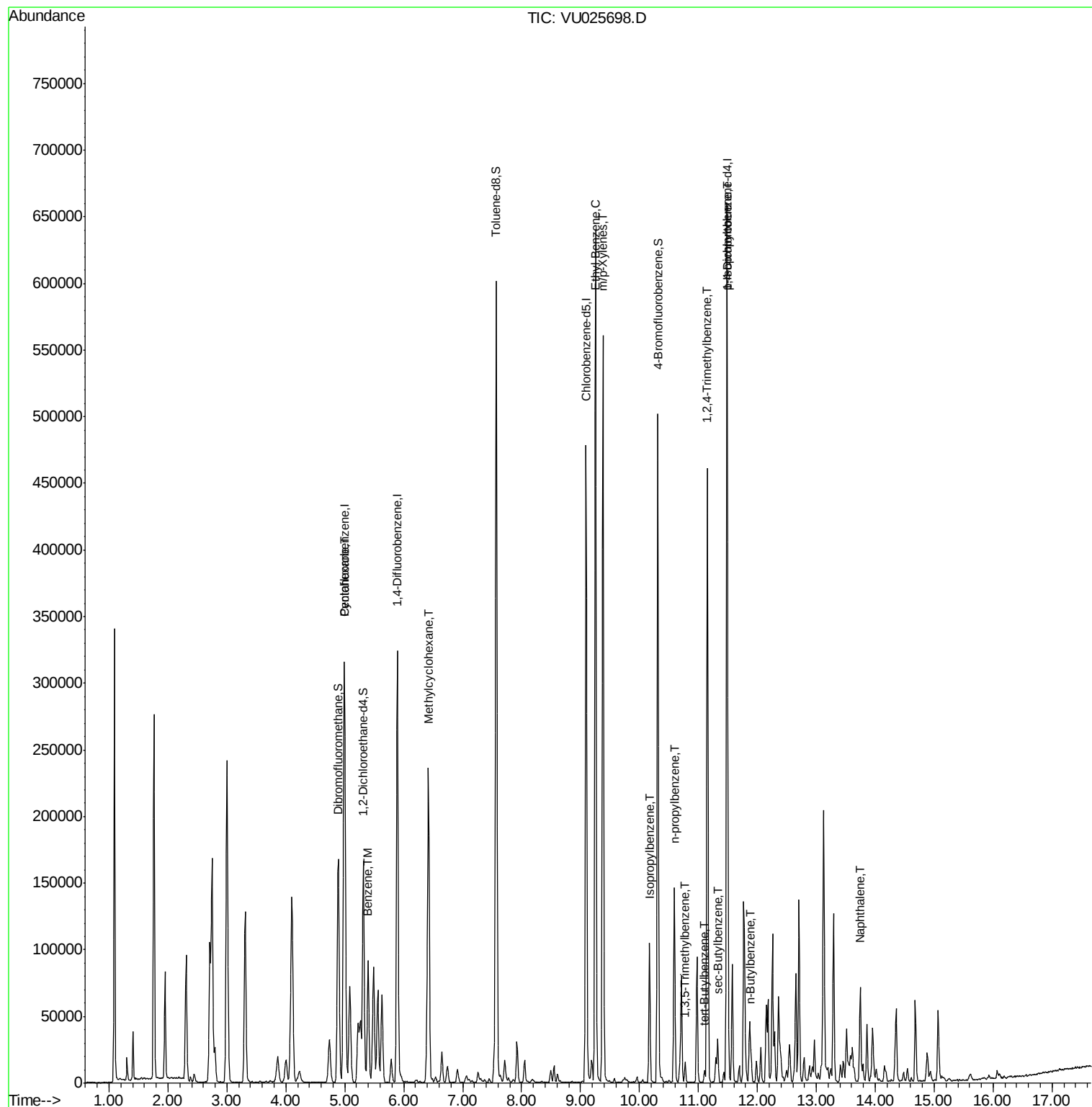
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	5.00	56	55538	15.11	ug/l	98
39) Methylcyclohexane	6.42	83	99348	27.01	ug/l	99
40) Benzene	5.39	78	88365	9.42	ug/l	98
67) Ethyl Benzene	9.25	91	443800	38.96	ug/l	99
68) m/p-Xylenes	9.38	106	155193	35.49	ug/l	100
73) Isopropylbenzene	10.17	105	66272	5.83	ug/l	99
78) n-propylbenzene	10.59	91	110224	8.30	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	8748	0.91	ug/l	98
83) tert-Butylbenzene	11.10	119	4080	0.43	ug/l	82
84) 1,2,4-Trimethylbenzene	11.15	105	249206	25.45	ug/l	98
85) sec-Butylbenzene	11.33	105	21928	1.87	ug/l	95
86) p-Isopropyltoluene	11.48	119	15361	1.46	ug/l	98
89) n-Butylbenzene	11.89	91	14838	1.53	ug/l #	71
95) Naphthalene	13.75	128	57523	5.78	ug/l	97

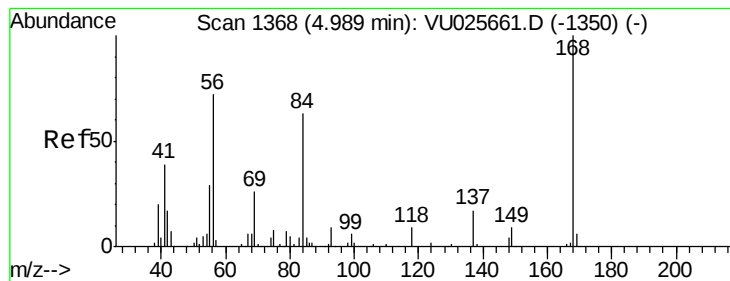
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleId :

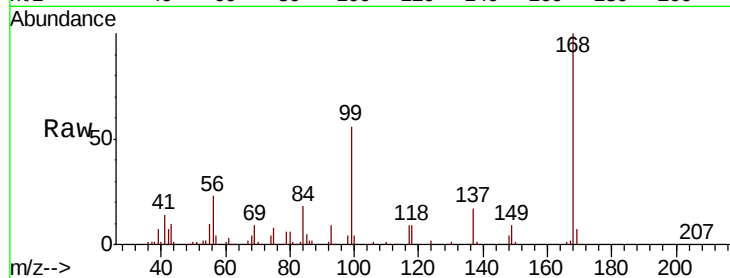
FL-0505

Tot Ion:168 Resp: 174277

Ion Ratio Lower Upper

168 100

99 56.2 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)

4.99

80000

60000

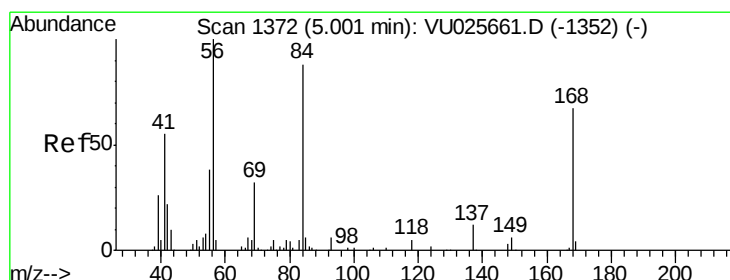
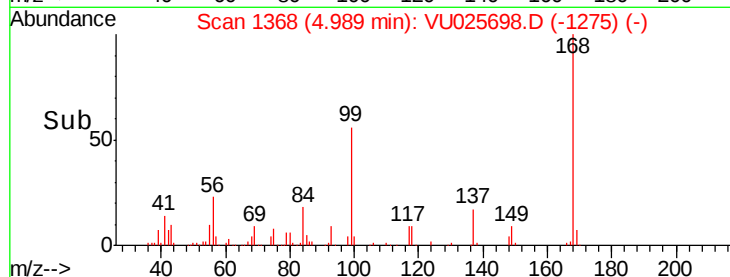
40000

20000

0

4.90 5.00 5.10

Time-->



#31

Cyclohexane

Concen: 15.11 ug/l

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

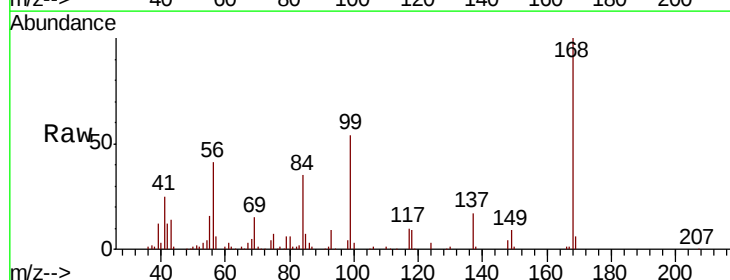
Tgt Ion: 56 Resp: 55538

Ion Ratio Lower Upper

56 100

69 35.9 26.8 40.2

84 86.4 69.7 104.5



Abundance Ion 56.00 (55.70 to 56.70): VU025661.D (-1352) (-)

Ion 69.00 (68.70 to 69.70): VU025661.D (-1352) (-)

Ion 84.00 (83.70 to 84.70): VU025661.D (-1352) (-)

5.00

30000

25000

20000

15000

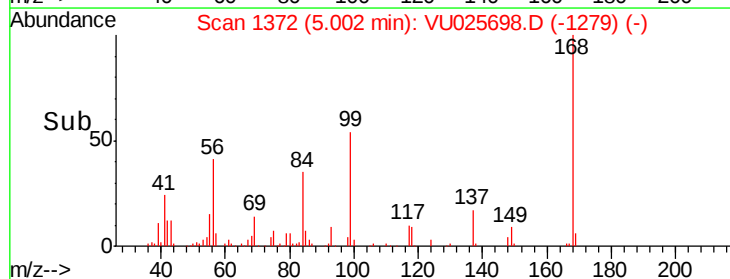
10000

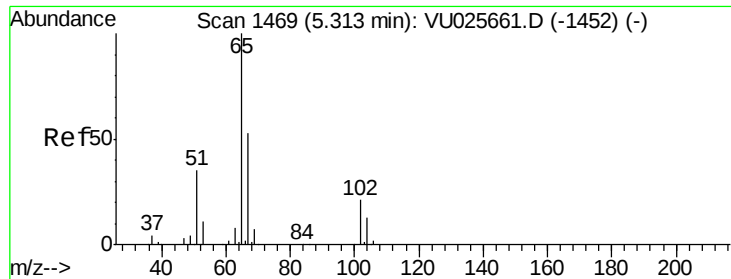
5000

0

4.90 4.95 5.00 5.05

Time-->

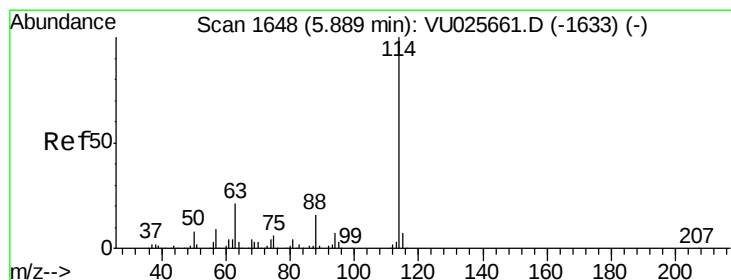
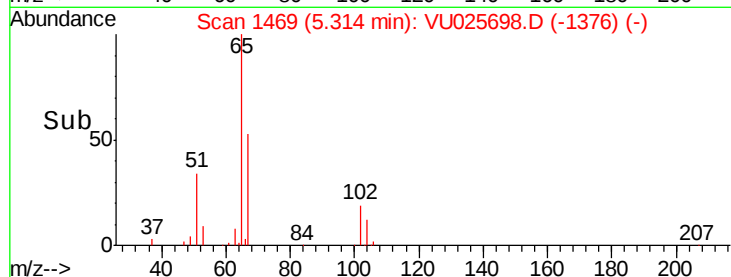
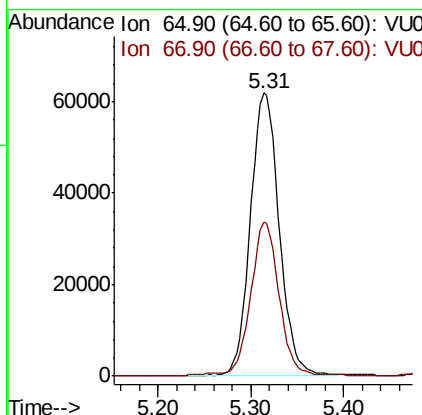
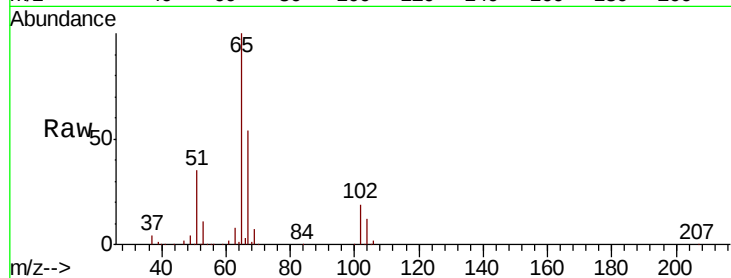




#33
 1,2-Dichloroethane-d4
 Concen: 49.37 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

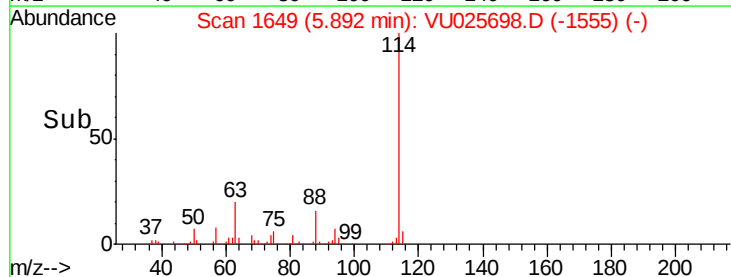
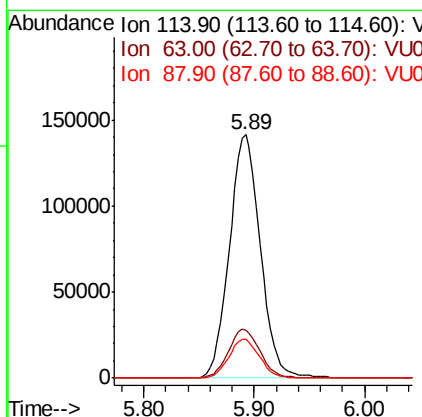
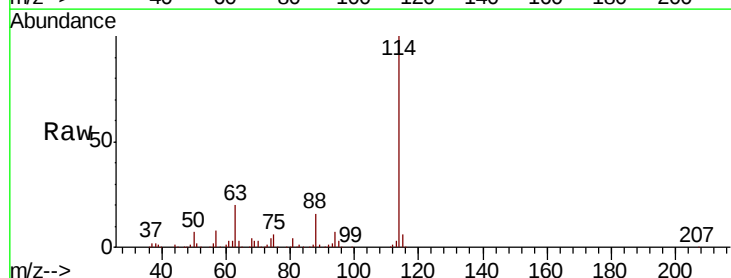
Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0505

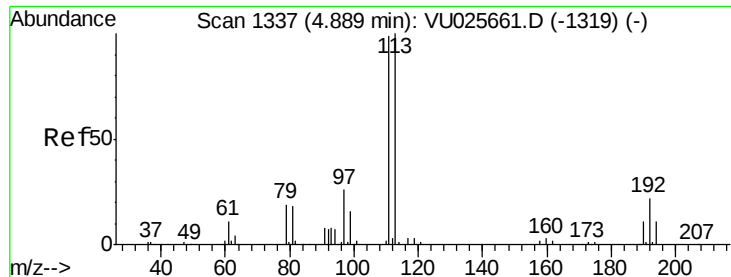
Tot Ion: 65 Resp: 134049
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

Tgt Ion: 114 Resp: 274682
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.6
 88 15.7 0.0 32.4

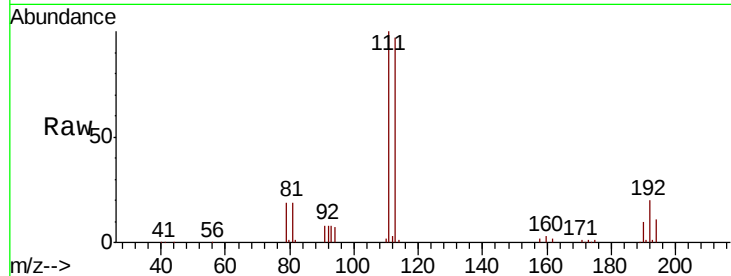




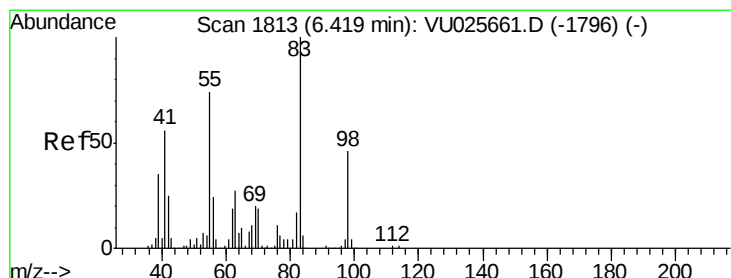
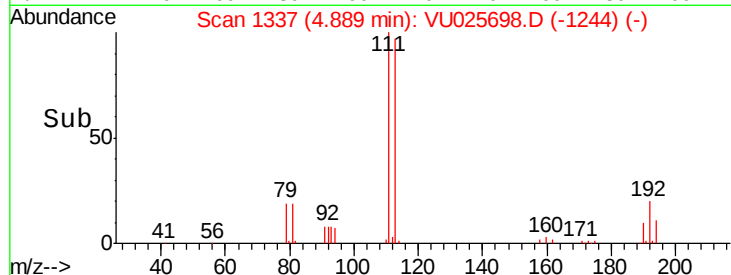
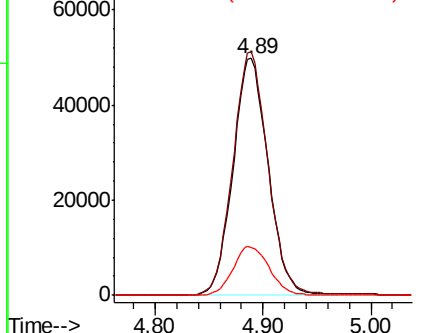
#35
 Dibromofluoromethane
 Concen: 47.36 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0505

Tot Ion:113 Resp: 113143
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.7 122.5
 192 21.3 17.1 25.7

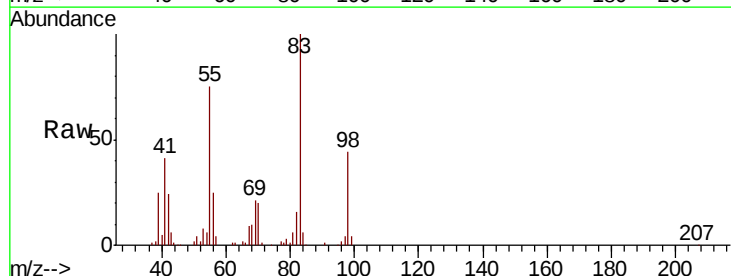


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

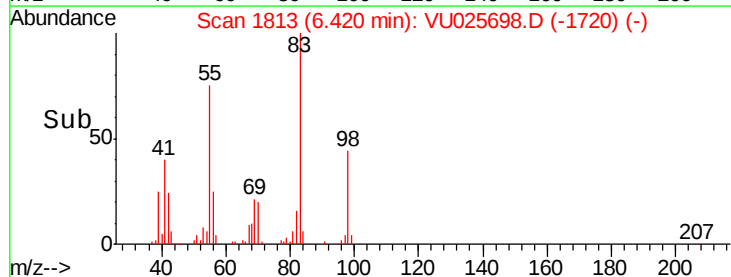
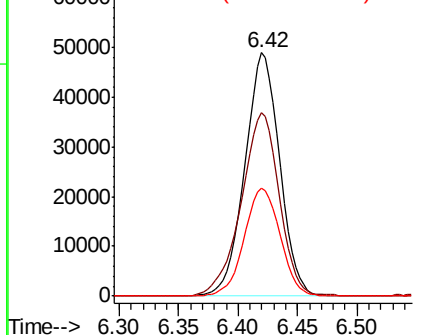


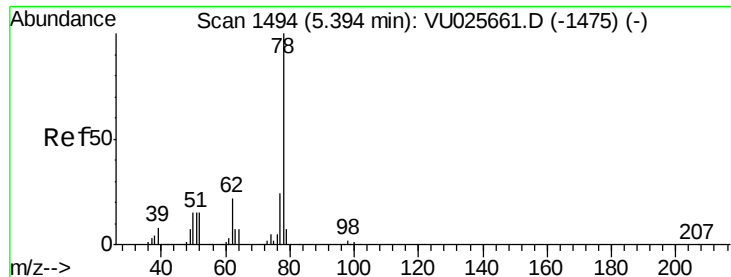
#39
 Methylcyclohexane
 Concen: 27.01 ug/l
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

Tgt Ion: 83 Resp: 99348
 Ion Ratio Lower Upper
 83 100
 55 75.3 60.0 90.0
 98 44.1 36.1 54.1



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#40

Benzene

Concen: 9.42 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleId :

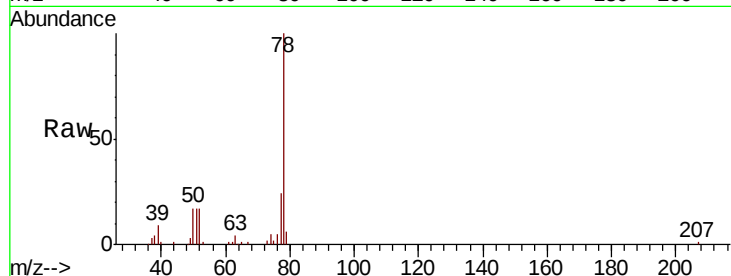
FL-0505

Tot Ion: 78 Resp: 88365

Ion Ratio Lower Upper

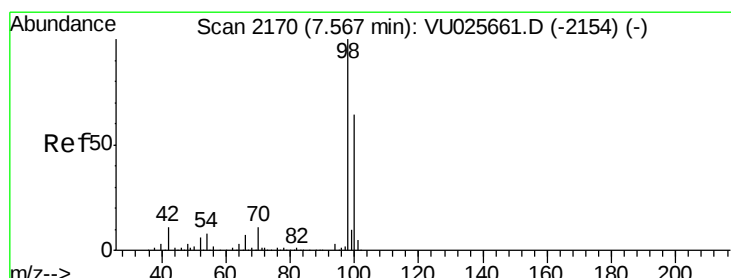
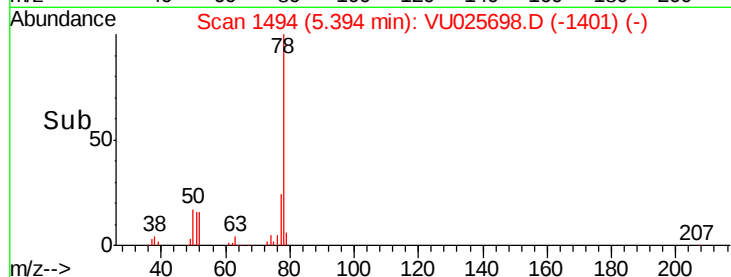
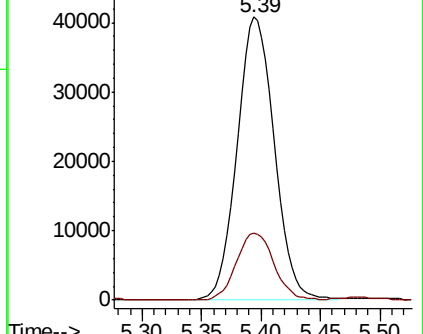
78 100

77 23.7 19.8 29.6



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#50

Toluene-d8

Concen: 47.38 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025698.D

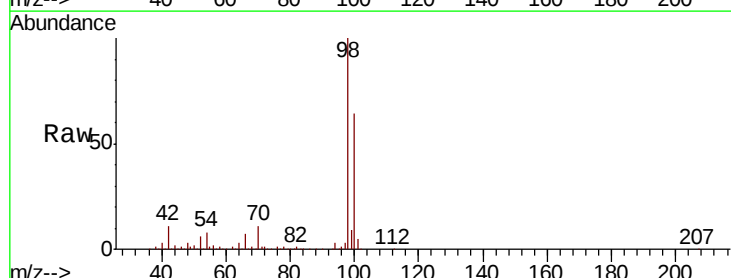
Acq: 28 Jul 2018 03:25

Tgt Ion: 98 Resp: 396114

Ion Ratio Lower Upper

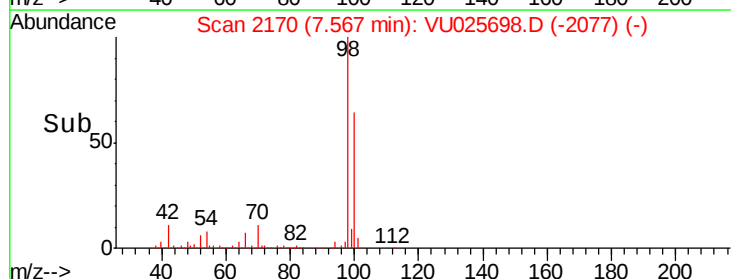
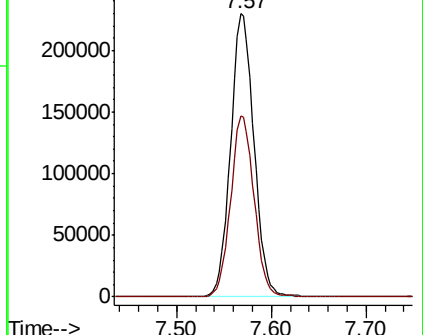
98 100

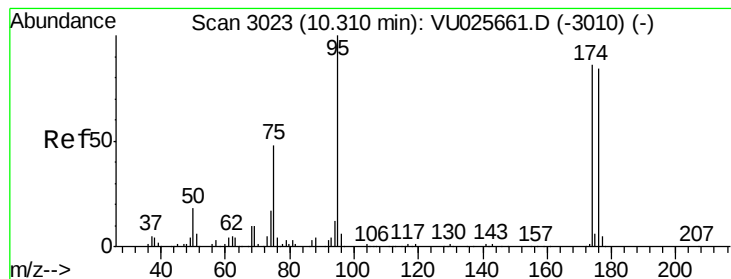
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#62

4-Bromofluorobenzene

Concen: 48.44 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleId :

FL-0505

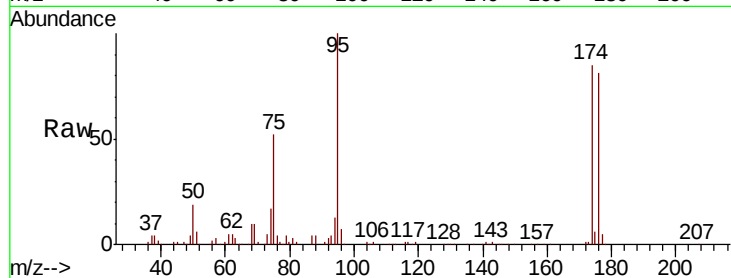
Tot Ion: 95 Resp: 157187

Ion Ratio Lower Upper

95 100

174 87.2 0.0 172.2

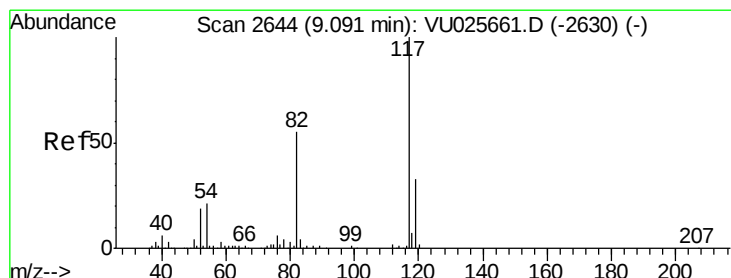
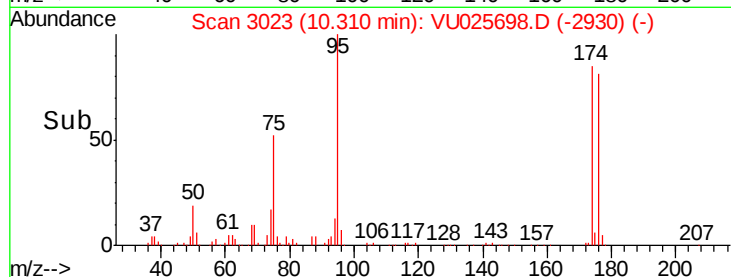
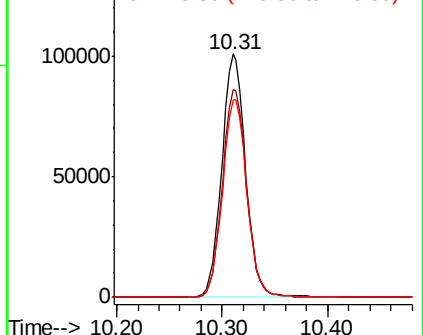
176 83.4 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

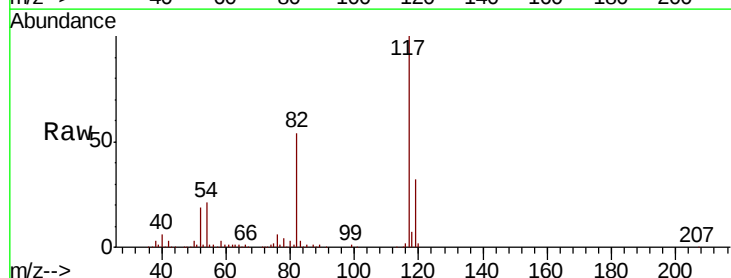
Tgt Ion: 117 Resp: 266721

Ion Ratio Lower Upper

117 100

82 53.9 46.0 69.0

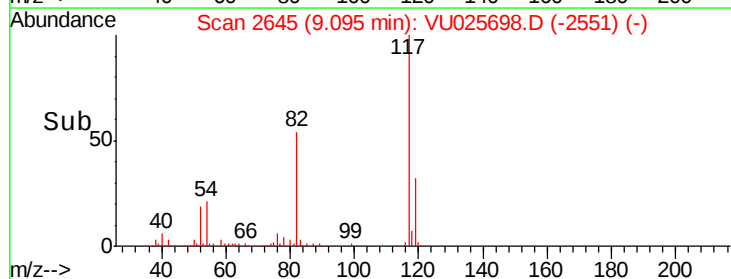
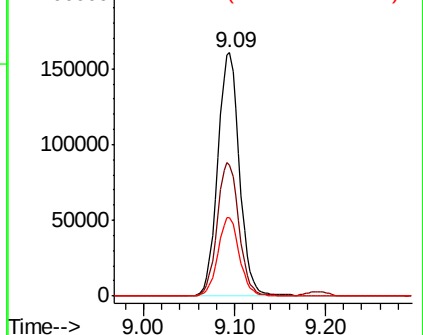
119 32.3 26.0 39.0

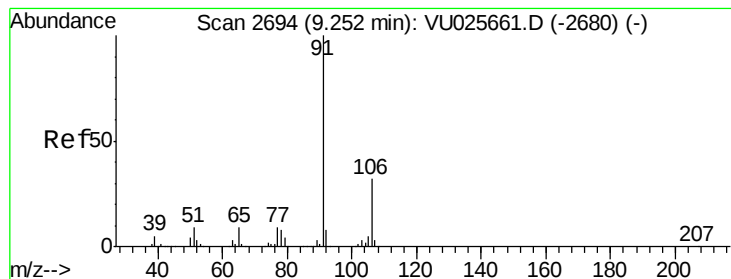


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 38.96 ug/l

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleId :

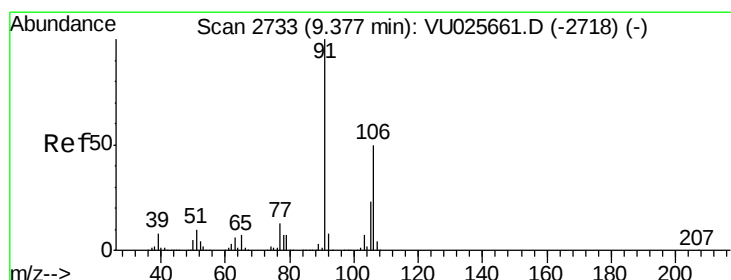
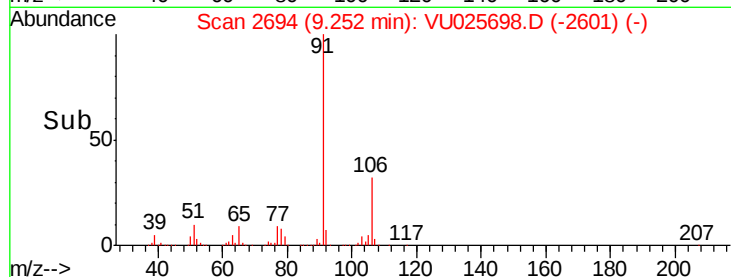
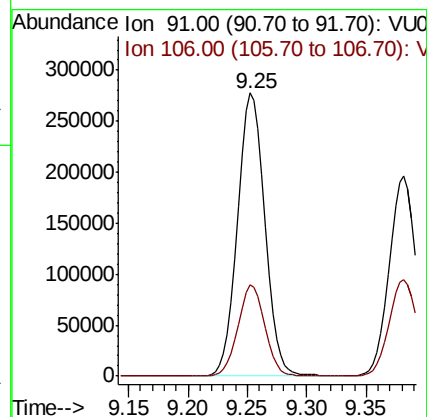
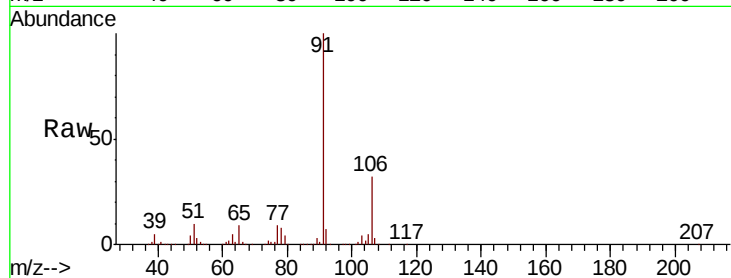
FL-0505

Tot Ion: 91 Resp: 443800

Ion Ratio Lower Upper

91 100

106 32.1 25.3 37.9



#68

m/p-Xylenes

Concen: 35.49 ug/l

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU025698.D

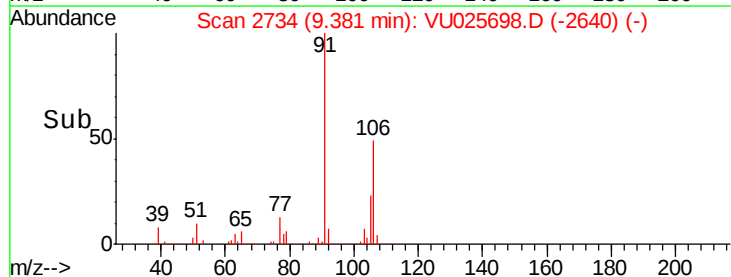
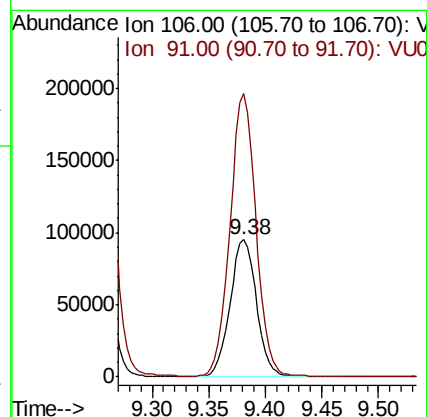
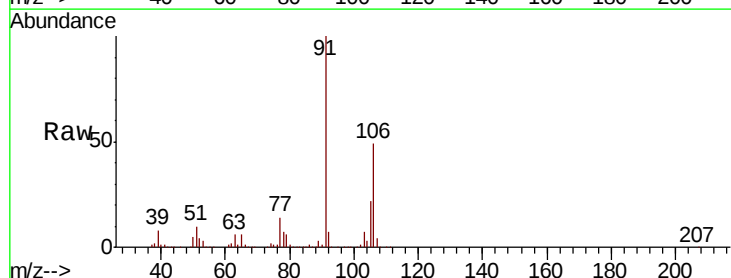
Acq: 28 Jul 2018 03:25

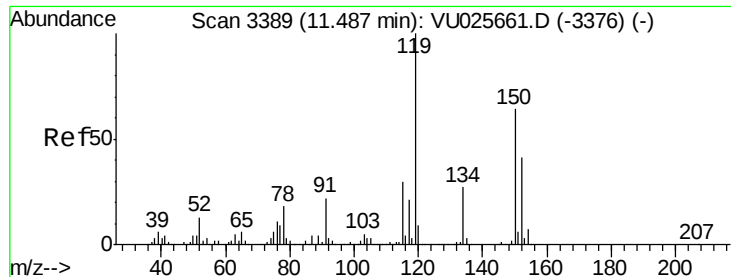
Tgt Ion: 106 Resp: 155193

Ion Ratio Lower Upper

106 100

91 202.8 162.3 243.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleId :

FL-0505

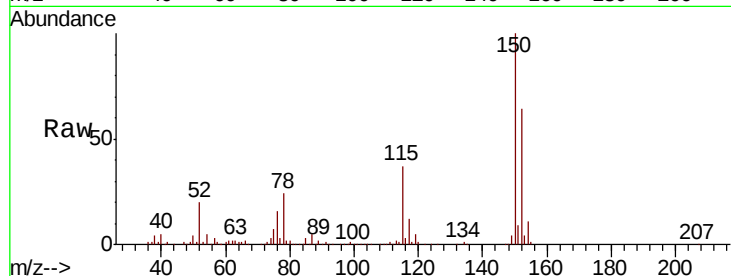
Tot Ion:152 Resp: 166681

Ion Ratio Lower Upper

152 100

115 57.4 40.1 120.3

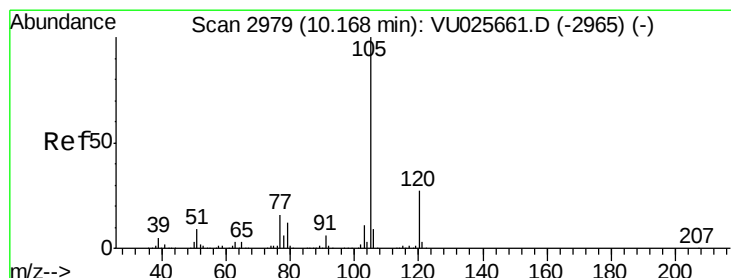
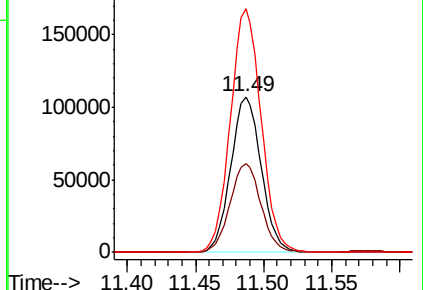
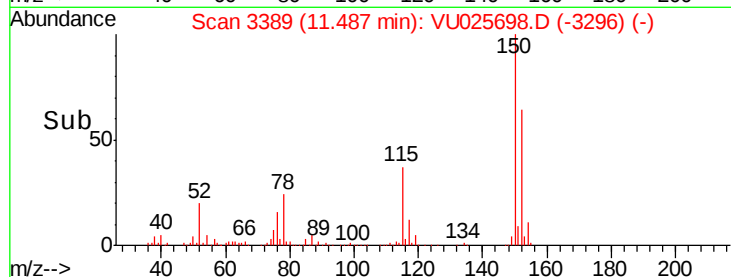
150 157.5 0.0 351.4



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



#73

Isopropylbenzene

Concen: 5.83 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025698.D

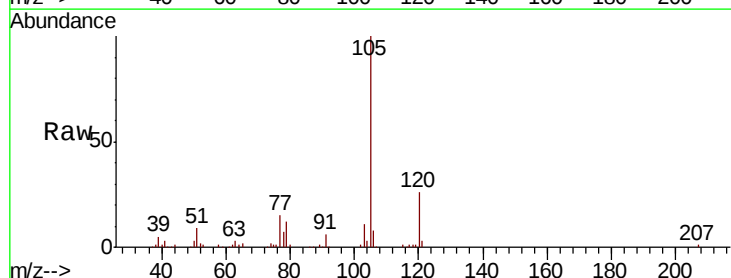
Acq: 28 Jul 2018 03:25

Tgt Ion:105 Resp: 66272

Ion Ratio Lower Upper

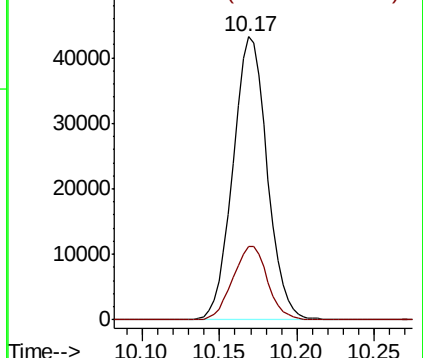
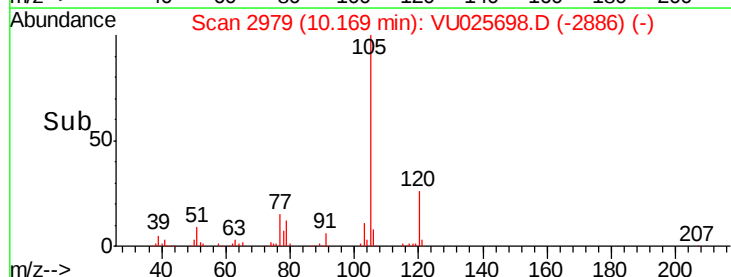
105 100

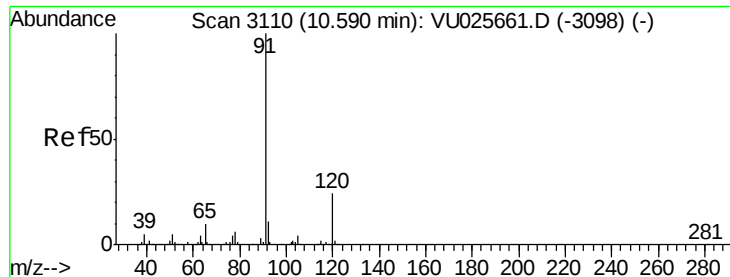
120 26.4 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 8.30 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleId :

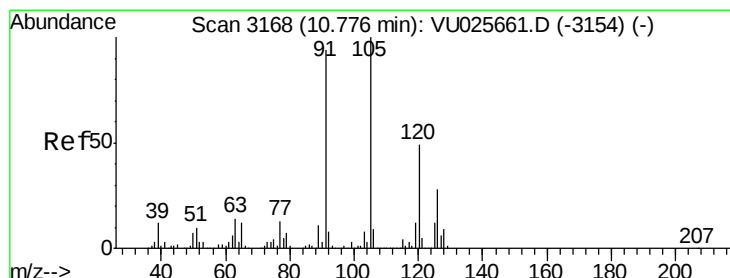
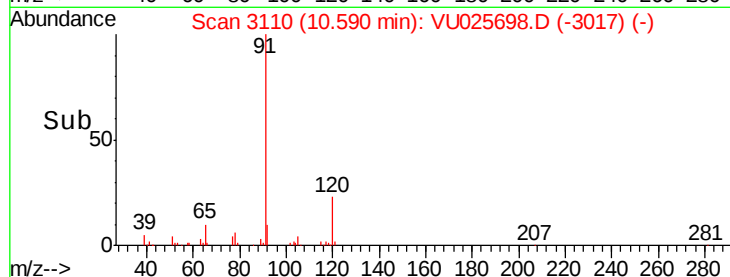
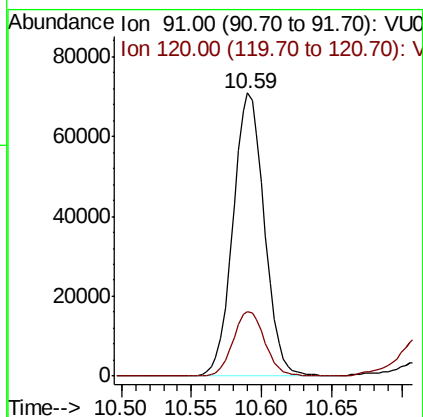
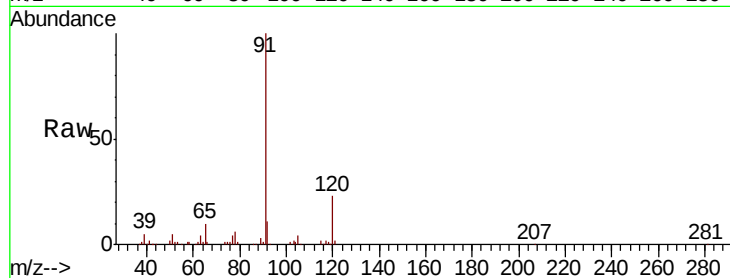
FL-0505

Tot Ion: 91 Resp: 110224

Ion Ratio Lower Upper

91 100

120 23.1 11.8 35.3



#80

1,3,5-Trimethylbenzene

Concen: 0.91 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025698.D

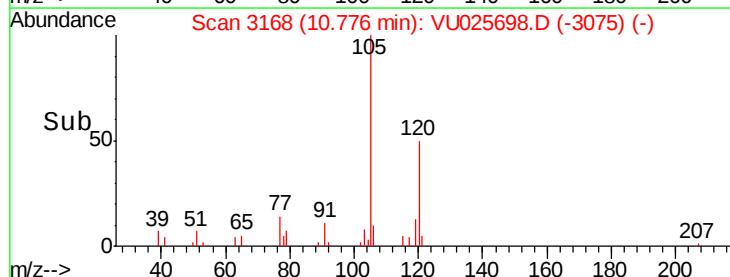
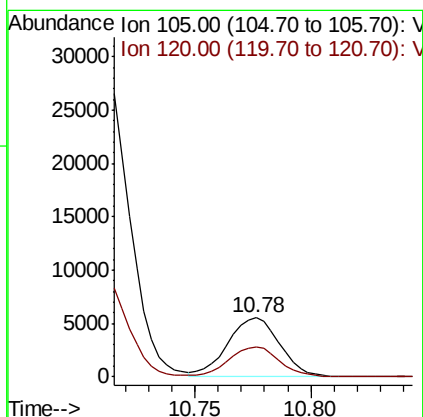
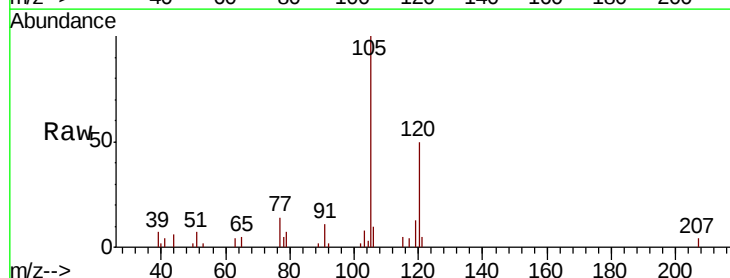
Acq: 28 Jul 2018 03:25

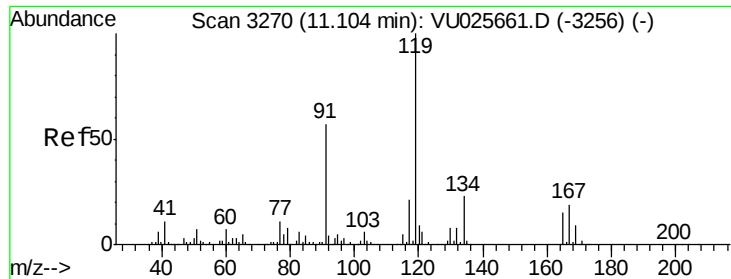
Tgt Ion: 105 Resp: 8748

Ion Ratio Lower Upper

105 100

120 49.4 24.1 72.2

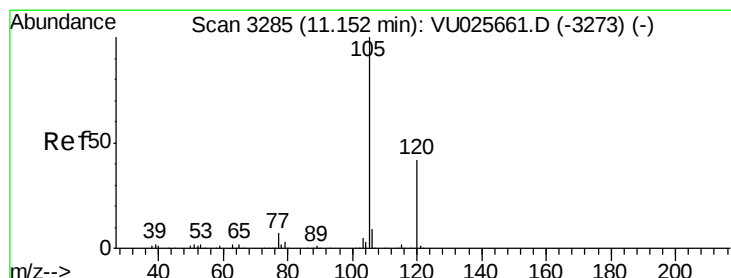
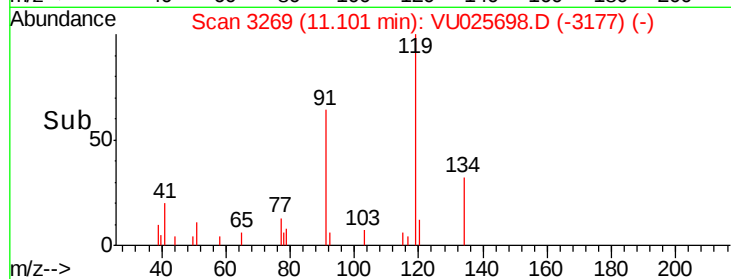
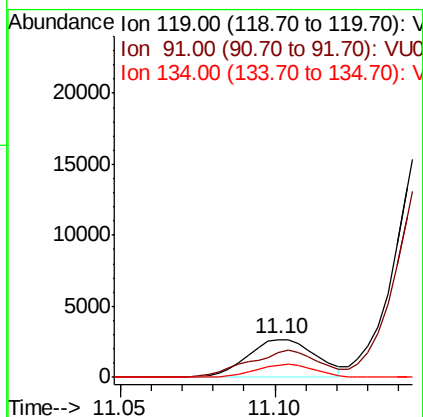
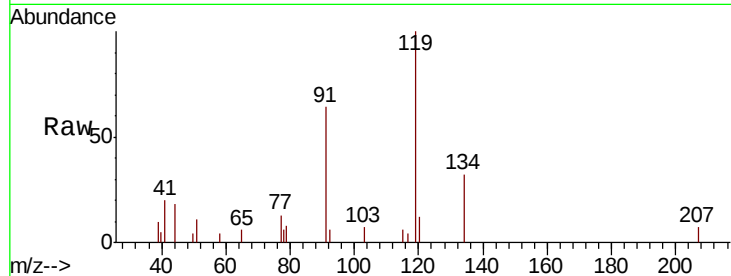




#83
 tert-Butylbenzene
 Concen: 0.43 ug/l
 RT: 11.10 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

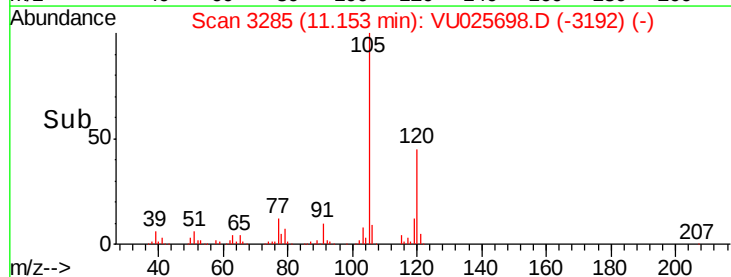
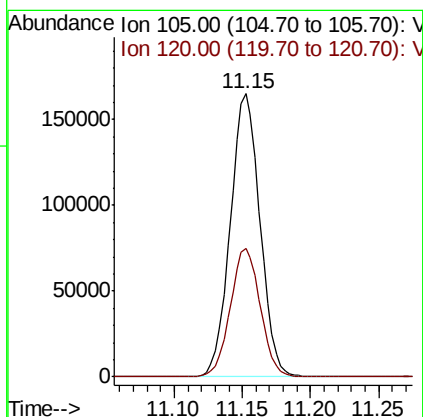
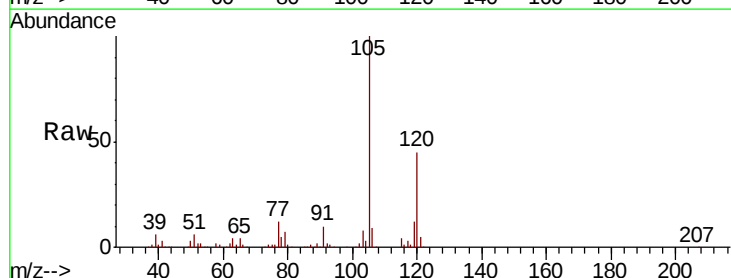
Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0505

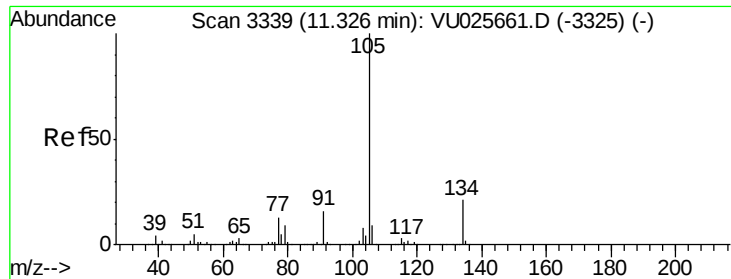
Tot Ion:119 Resp: 4080
 Ion Ratio Lower Upper
 119 100
 91 74.9 29.7 89.1
 134 29.0 11.5 34.5



#84
 1,2,4-Trimethylbenzene
 Concen: 25.45 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

Tgt Ion:105 Resp: 249206
 Ion Ratio Lower Upper
 105 100
 120 45.7 22.3 66.8

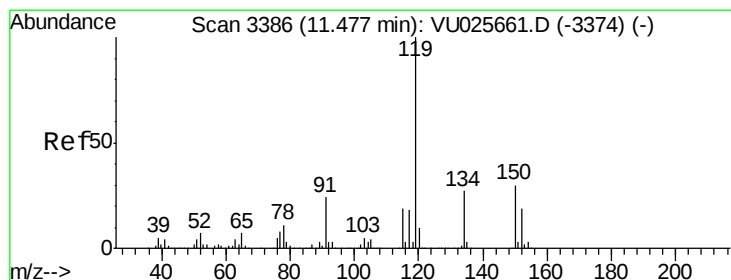
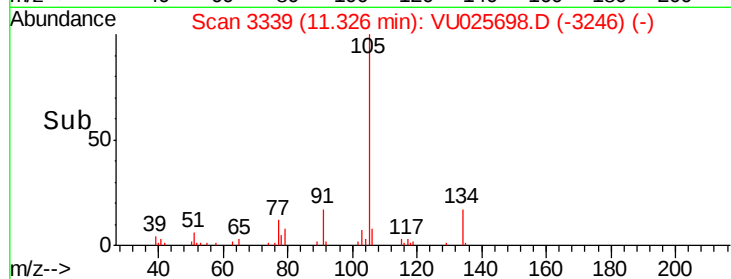
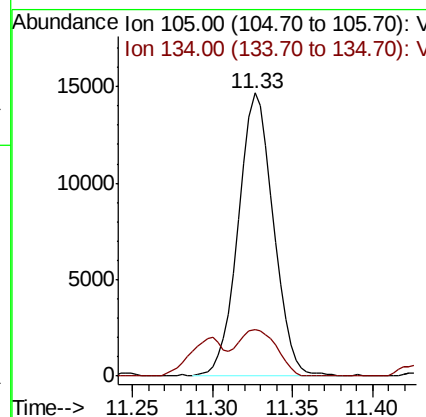
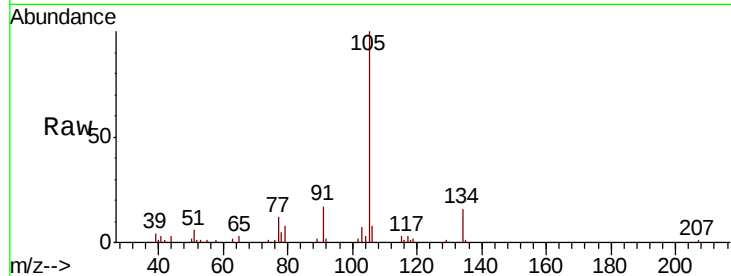




#85
 sec-Butylbenzene
 Concen: 1.87 ug/l
 RT: 11.33 min Scan# 3339
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

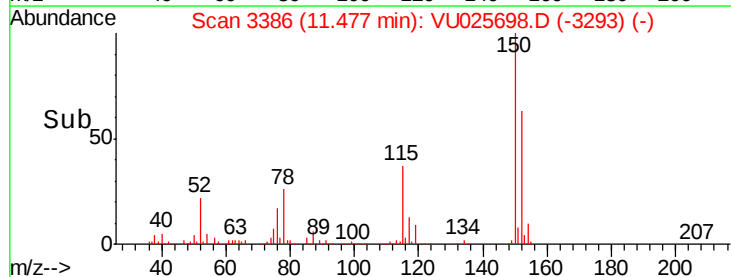
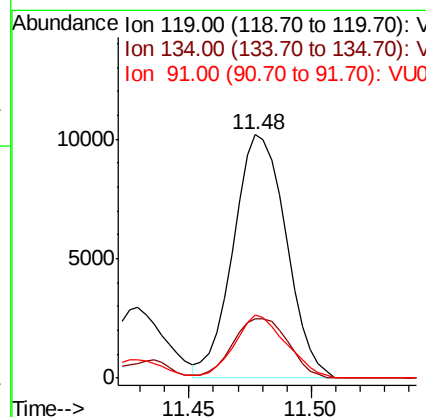
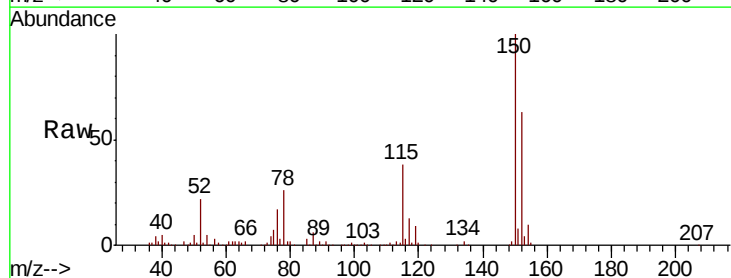
Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0505

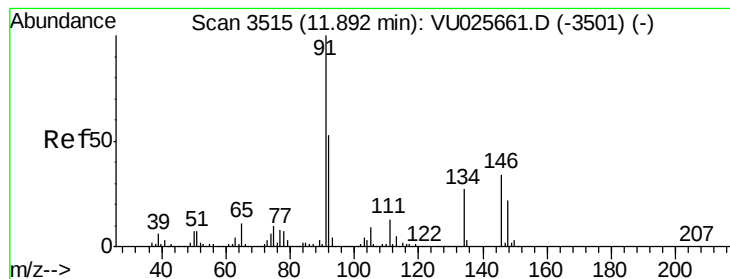
Tot Ion:105 Resp: 21928
 Ion Ratio Lower Upper
 105 100
 134 18.0 10.3 30.8



#86
 p-Isopropyltoluene
 Concen: 1.46 ug/l
 RT: 11.48 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU025698.D
 Acq: 28 Jul 2018 03:25

Tgt Ion:119 Resp: 15361
 Ion Ratio Lower Upper
 119 100
 134 25.9 13.2 39.5
 91 25.4 12.0 36.1





#89

n-Butylbenzene

Concen: 1.53 ug/l

RT: 11.89 min Scan# 3515

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

Instrument :

MSVOA_U

ClientSampleID :

FL-0505

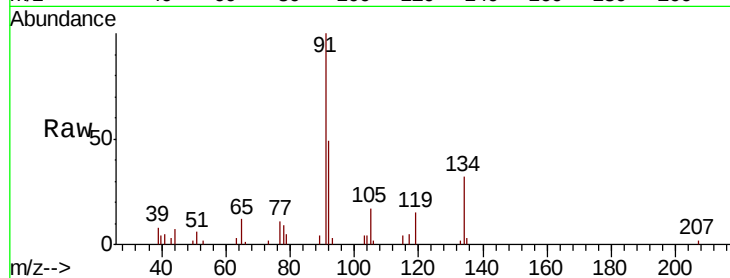
Tot Ion: 91 Resp: 14838

Ion Ratio Lower Upper

91 100

92 40.8 26.5 79.5

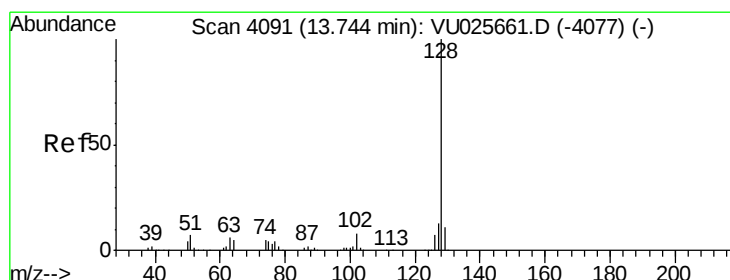
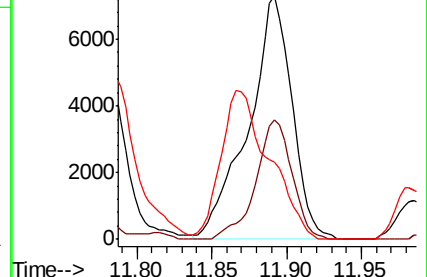
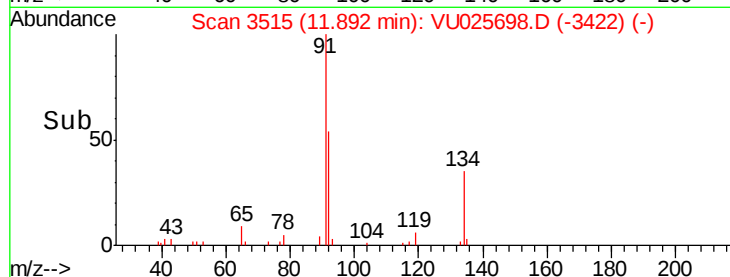
134 0.0 13.6 40.7#



Abundance Ion 91.00 (90.70 to 91.70): VU025661.D (-3501) (-)

Ion 92.00 (91.70 to 92.70): VU025661.D (-3501) (-)

Ion 134.00 (133.70 to 134.70): VU025661.D (-3501) (-)



#95

Naphthalene

Concen: 5.78 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025698.D

Acq: 28 Jul 2018 03:25

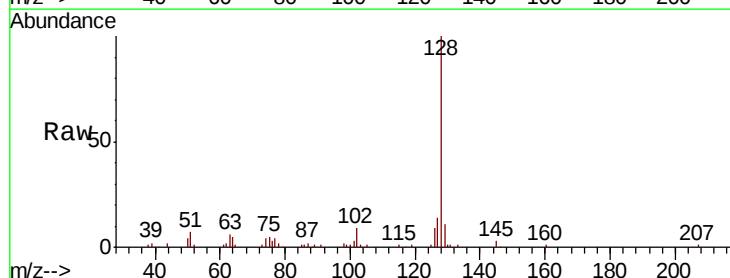
Tgt Ion: 128 Resp: 57523

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

129 12.1 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): VU025661.D (-4077) (-)

Ion 127.00 (126.70 to 127.70): VU025661.D (-4077) (-)

Ion 129.00 (128.70 to 129.70): VU025661.D (-4077) (-)

