

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028146.D
 Acq On : 15 Nov 2018 02:06
 Operator : MD/SY
 Sample : J5943-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 06:18:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	142100	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	132917	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	63219	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	56116	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.68	69	45761	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.80%
11) 1,1-Dichloroethene-d2	2.27	63	79732	3.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.40%
20) 2-Butanone-d5	4.23	46	186302	54.47	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.94%
24) Chloroform-d	4.65	84	88743	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.31	65	51319	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
32) Benzene-d6	5.34	84	187058	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.33	67	70479	5.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.20%
41) Toluene-d8	7.57	98	166840	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
43) trans-1,3-Dichloropropene-	7.85	79	21362	4.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.80%
46) 2-Hexanone-d5	8.32	63	146305	52.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.22%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	49294	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	58256	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	161070	10.582	ug/L	98
8) Chloroethane	1.70	64	5584	0.609	ug/L	91
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	682	0.073	ug/L #	1
12) 1,1-Dichloroethene	2.29	96	825	0.087	ug/L #	1
18) trans-1,2-Dichloroethene	2.98	96	10862	1.081	ug/L	100
19) 1,1-Dichloroethane	3.45	63	87582	4.146	ug/L	98
22) cis-1,2-Dichloroethene	4.22	96	20396	1.842	ug/L	98
30) Cyclohexane	5.00	56	3525	0.167	ug/L	96
33) Benzene	5.39	78	37599	0.840	ug/L	100
34) Trichloroethene	6.19	95	6187	0.559	ug/L	93
35) Methylcyclohexane	6.33	83	13770	0.724	ug/L #	16
37) 1,2-Dichloropropane	6.43	63	418	0.034	ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	1338	0.080	ug/L #	12
42) Toluene	7.64	91	12837	0.278	ug/L	99
47) Tetrachloroethene	8.23	164	779	0.087	ug/L	86
48) 2-Hexanone	8.32	43	18145	2.991	ug/L #	65
49) Dibromochloromethane	8.23	129	916	0.115	ug/L #	11

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

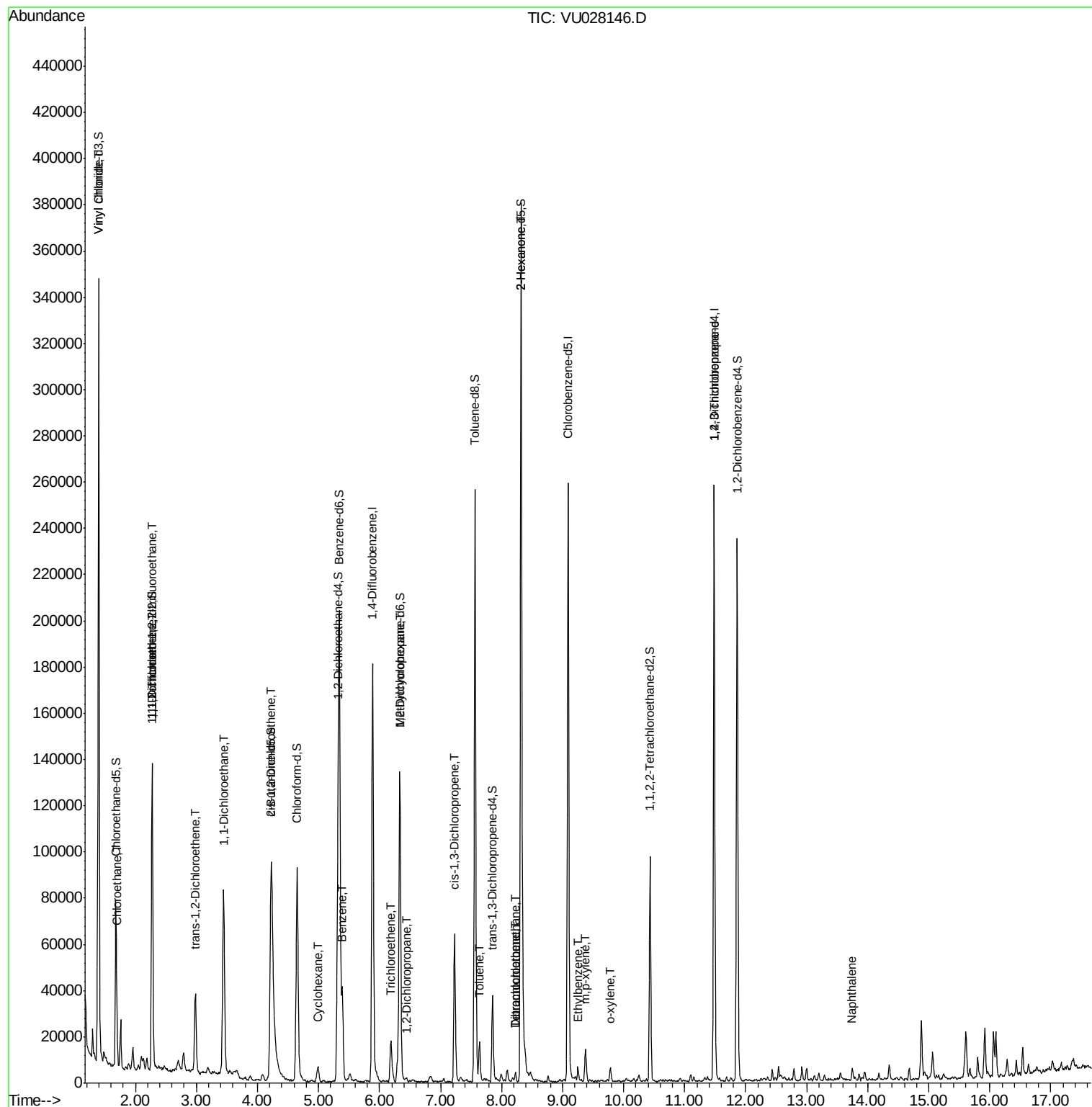
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.25	91	4799	0.095	ug/L	100
53) m,p-xylene	9.38	106	4004	0.218	ug/L	98
54) o-xylene	9.79	106	1566	0.089	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	9188	1.321	ug/L	89
69) Naphthalene	13.75	128	4952	0.199	ug/L	95

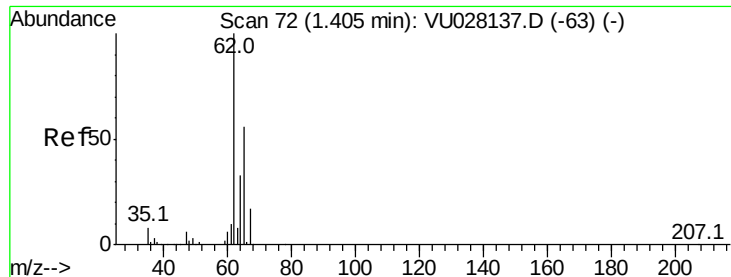
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 10.582 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :

MSVOA_U

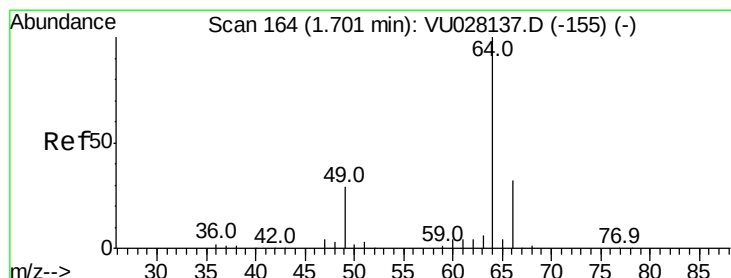
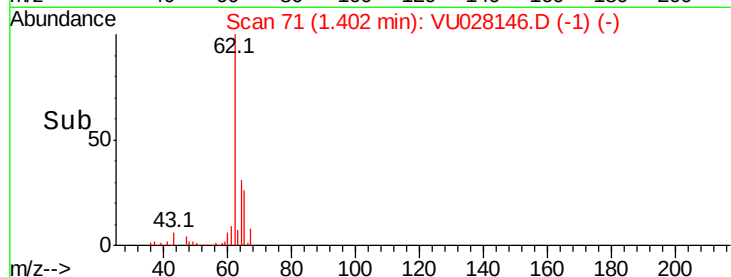
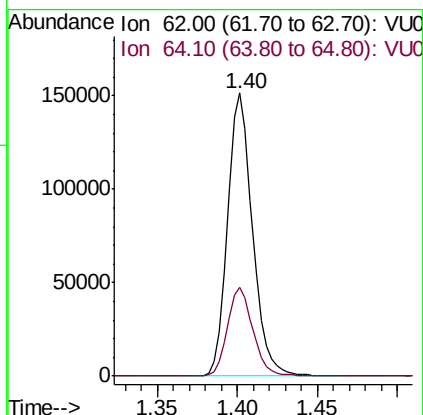
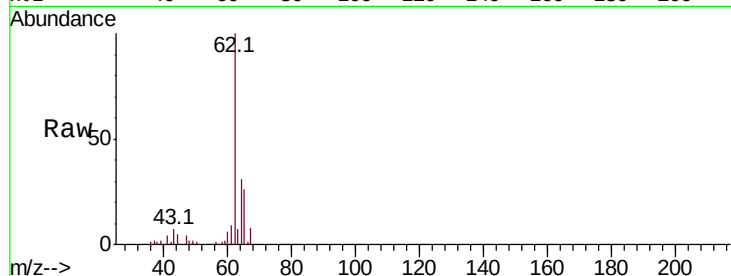
ClientSampleId :

Tot Ion: 62 Resp: 161070

Ion Ratio Lower Upper

62 100

64 31.4 22.7 42.3



#8

Chloroethane

Concen: 0.609 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028146.D

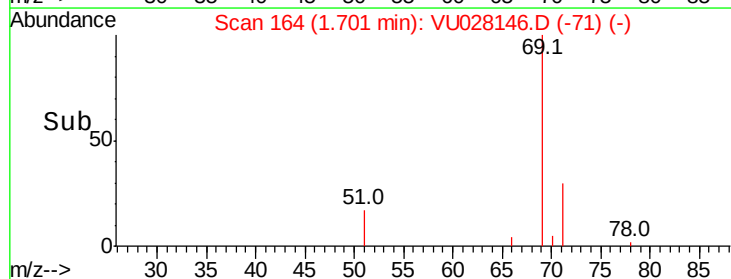
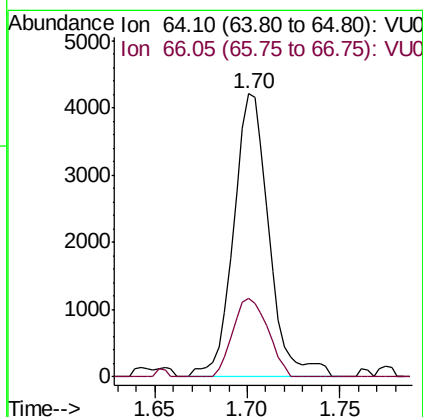
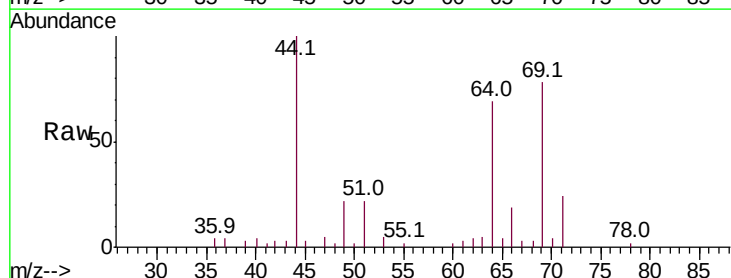
Acq: 15 Nov 2018 02:06

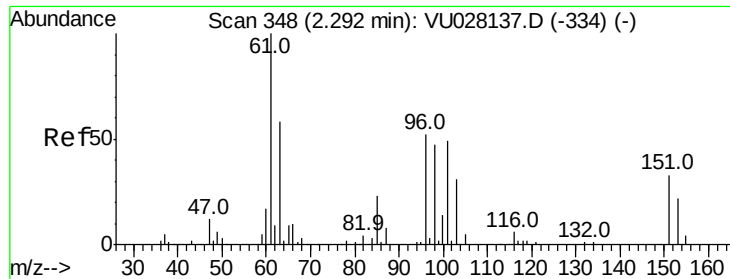
Tgt Ion: 64 Resp: 5584

Ion Ratio Lower Upper

64 100

66 27.7 23.1 42.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.073 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

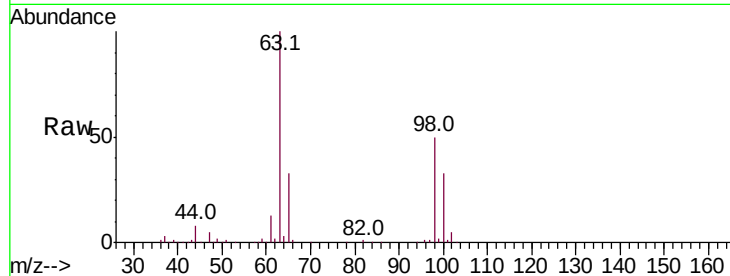
Tot Ion:101 Resp: 682

Ion Ratio Lower Upper

101 100

85 148.5 37.6 56.4#

151 0.0 58.2 87.2#

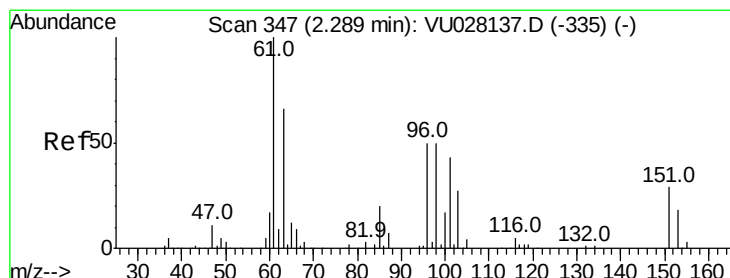
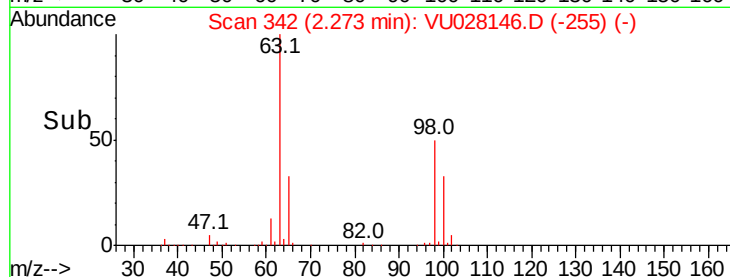
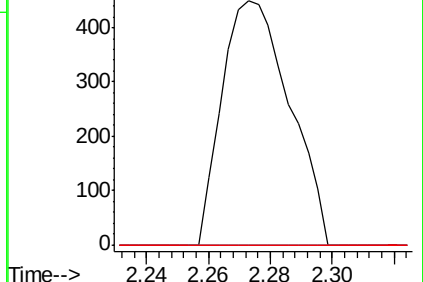


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.27



#12

1,1-Dichloroethene

Concen: 0.087 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

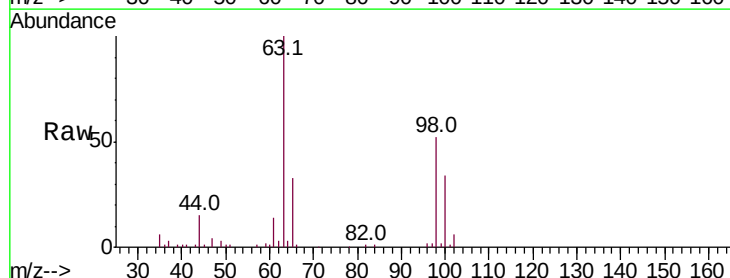
Tgt Ion: 96 Resp: 825

Ion Ratio Lower Upper

96 100

61 905.2 134.8 250.3#

63 6650.9 100.1 185.9#

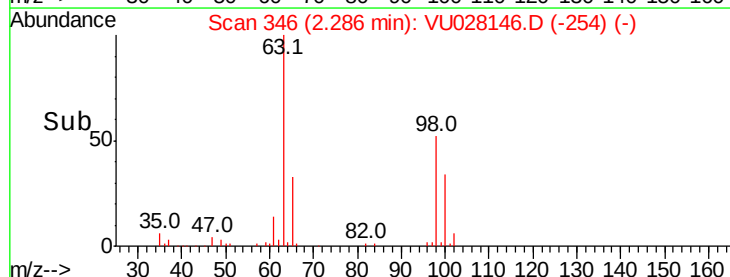
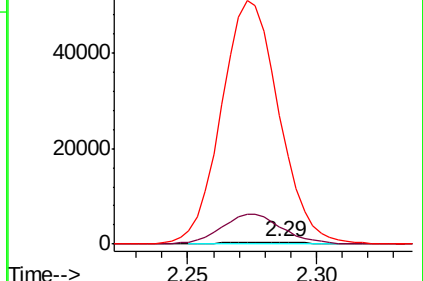


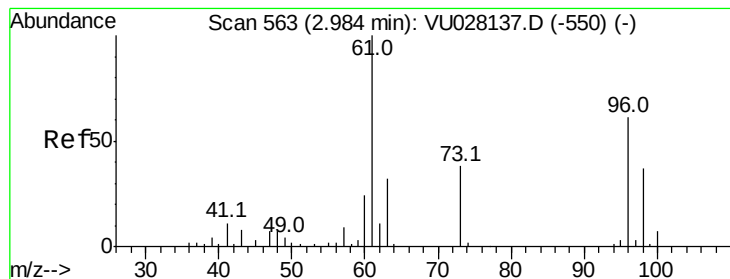
Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

2.29





#18

trans-1,2-Dichloroethene

Concen: 1.081 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :
MSVOA_U
ClientSampled :

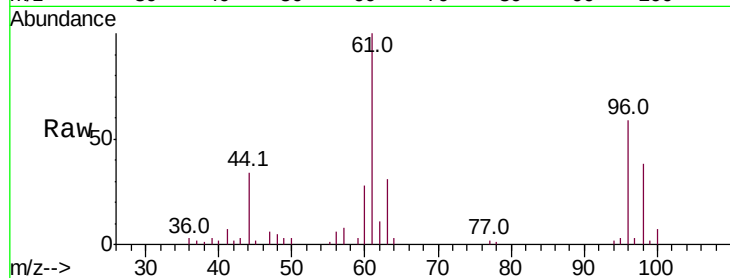
Tot Ion: 96 Resp: 10862

Ion Ratio Lower Upper

96 100

61 169.2 118.5 220.1

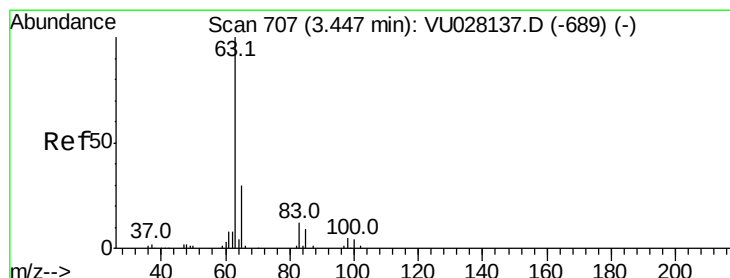
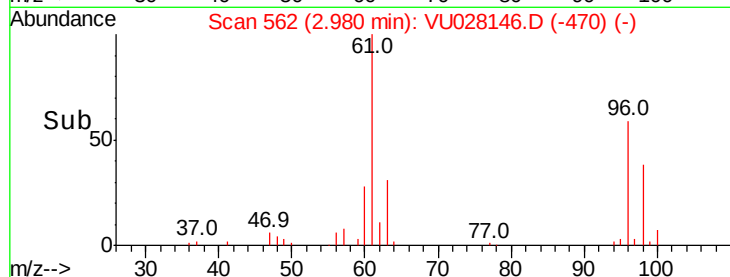
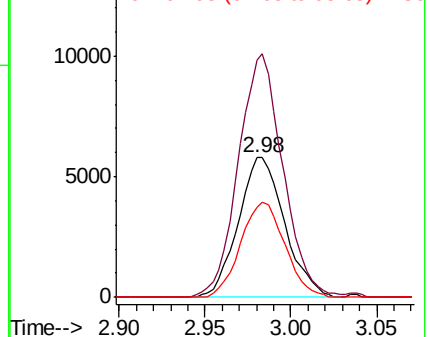
98 64.7 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 4.146 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

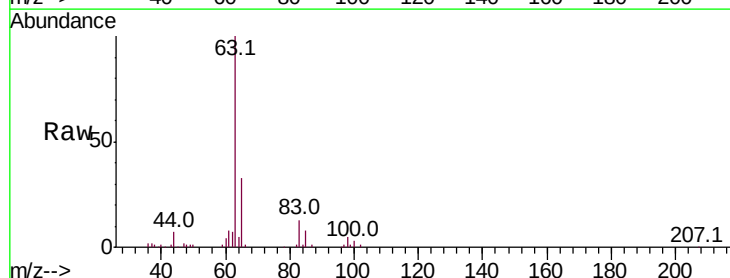
Tgt Ion: 63 Resp: 87582

Ion Ratio Lower Upper

63 100

65 33.2 22.2 41.2

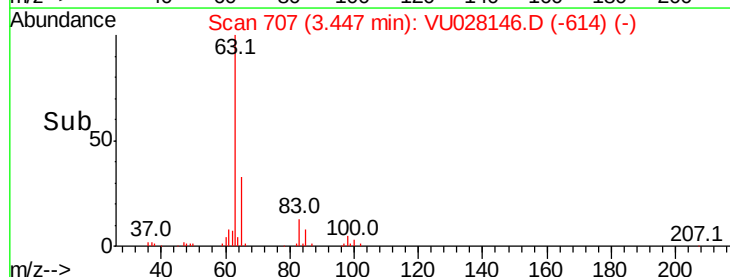
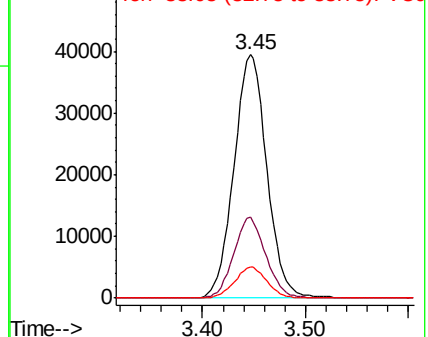
83 12.9 8.9 16.5

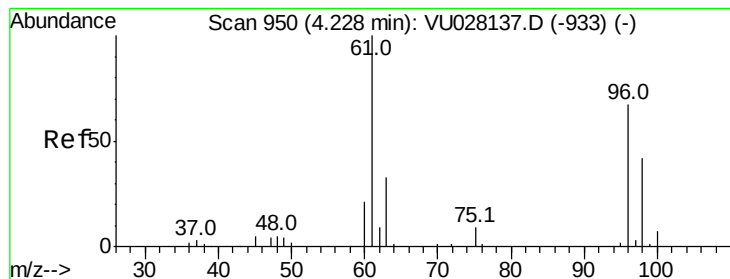


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 1.842 ug/L

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

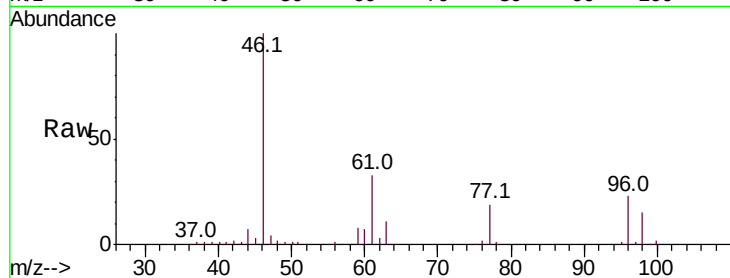
Tot Ion: 96 Resp: 20396

Ion Ratio Lower Upper

96 100

61 148.0 101.8 189.0

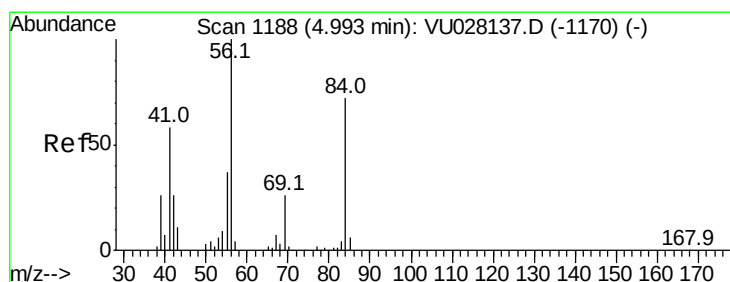
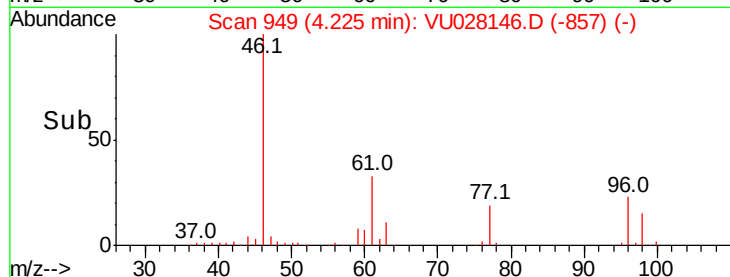
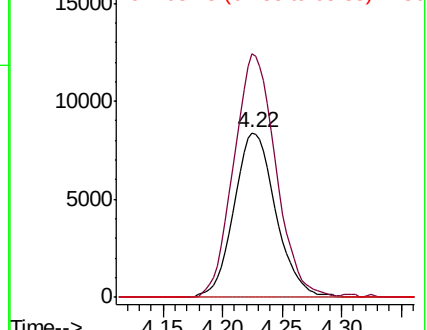
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#30

Cyclohexane

Concen: 0.167 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

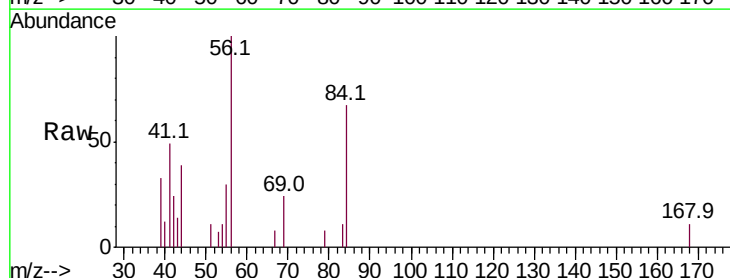
Tgt Ion: 56 Resp: 3525

Ion Ratio Lower Upper

56 100

69 30.0 22.6 33.8

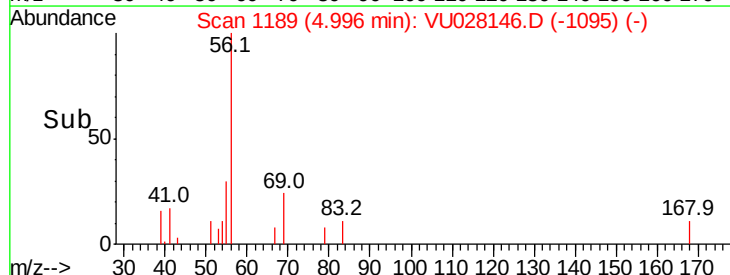
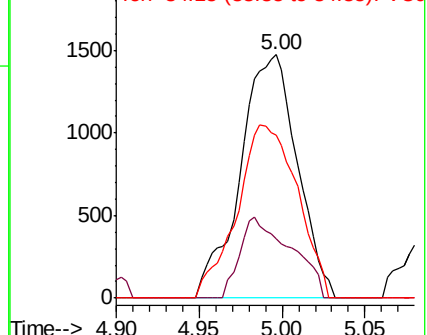
84 75.2 57.7 86.5

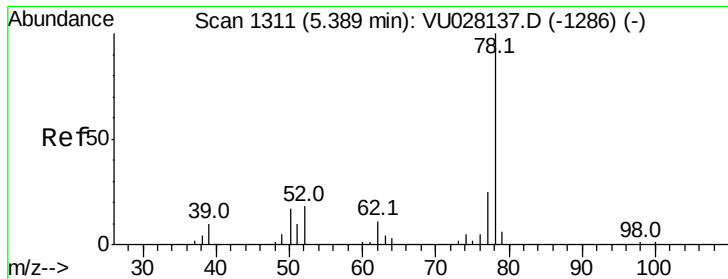


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#33

Benzene

Concen: 0.840 ug/L

RT: 5.39 min Scan# 1311

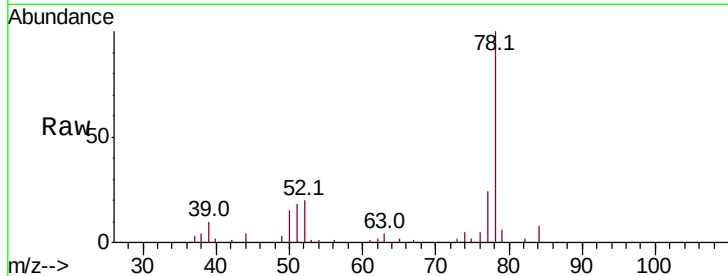
Delta R.T. -0.00 min

Lab File: VU028146.D

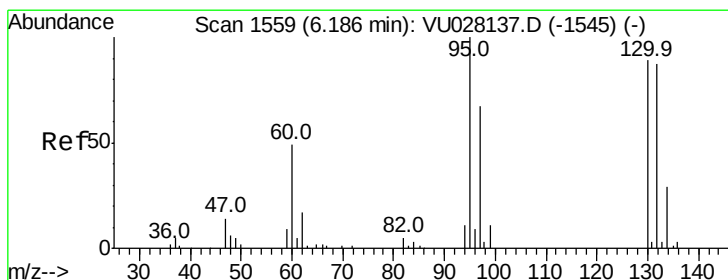
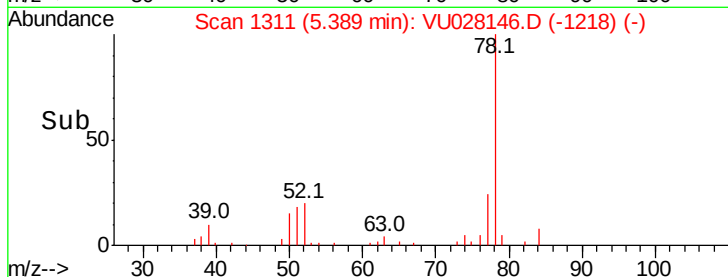
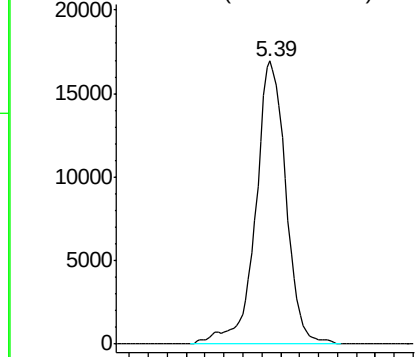
Acq: 15 Nov 2018 02:06

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 37599



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.559 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Tgt Ion: 95 Resp: 6187

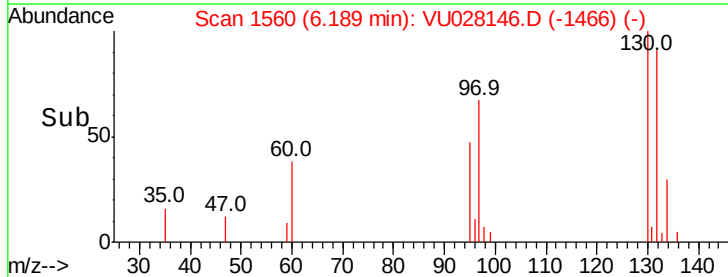
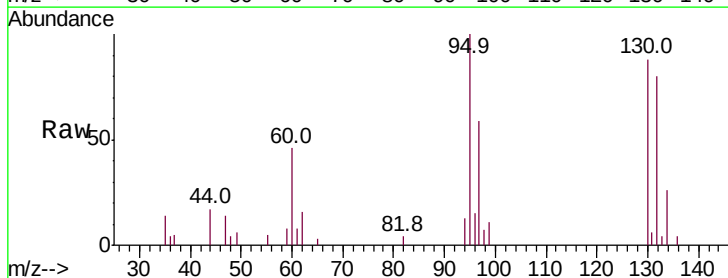
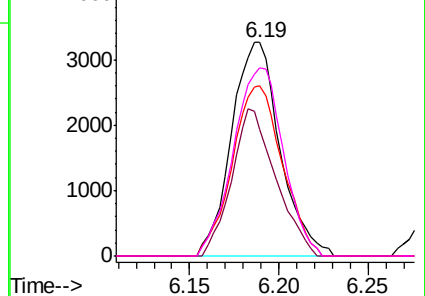
Ion	Ratio	Lower	Upper
95	100		
97	59.2	45.3	84.1
132	79.7	63.0	117.0
130	88.0	63.6	118.2

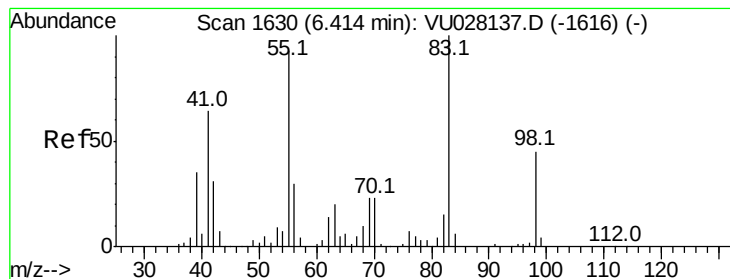
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 0.724 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :

MSVOA_U

ClientSampleId :

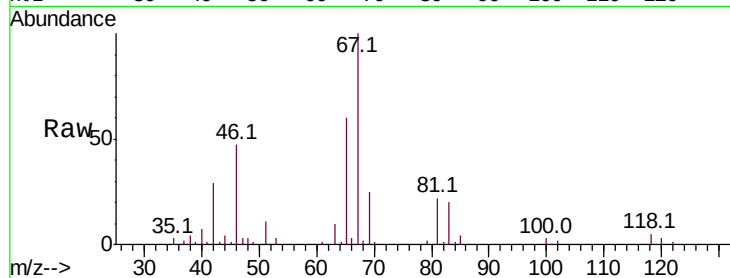
Tot Ion: 83 Resp: 13770

Ion Ratio Lower Upper

83 100

55 0.3 69.0 103.4#

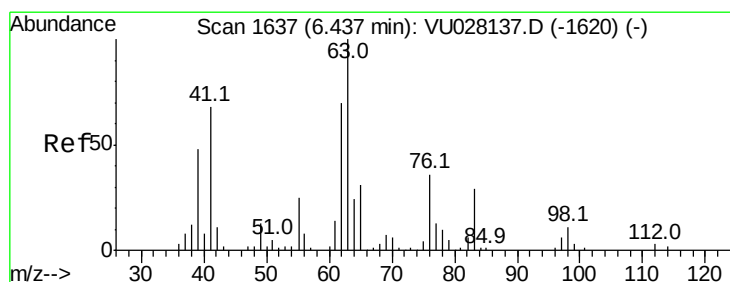
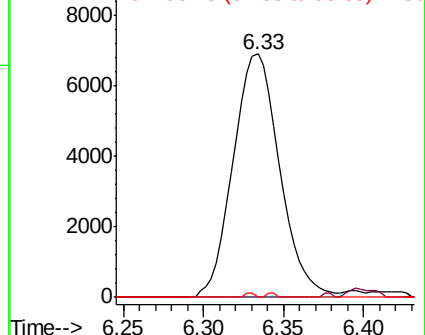
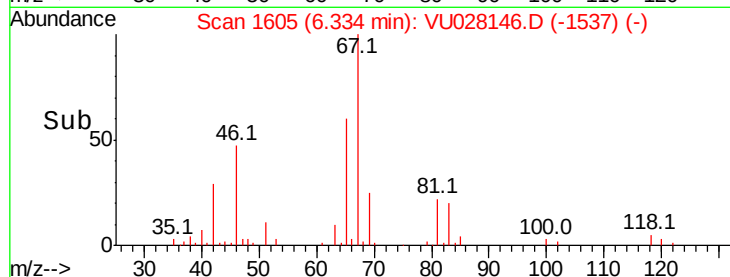
98 0.3 33.3 49.9#



Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



#37

1,2-Dichloropropane

Concen: 0.034 ug/L

RT: 6.43 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VU028146.D

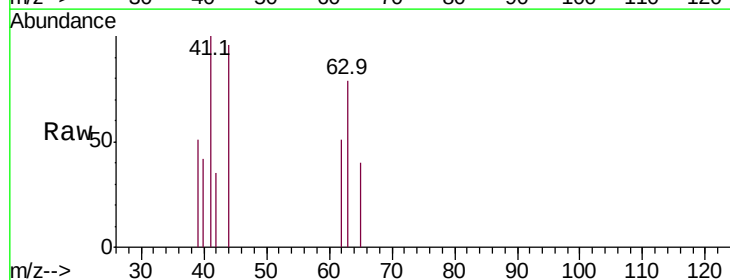
Acq: 15 Nov 2018 02:06

Tgt Ion: 63 Resp: 418

Ion Ratio Lower Upper

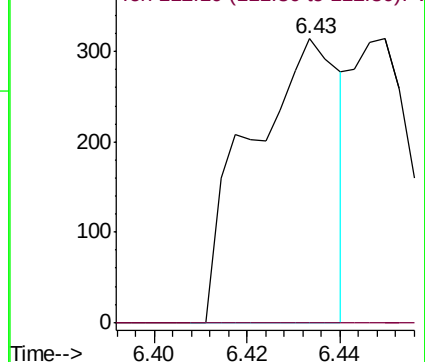
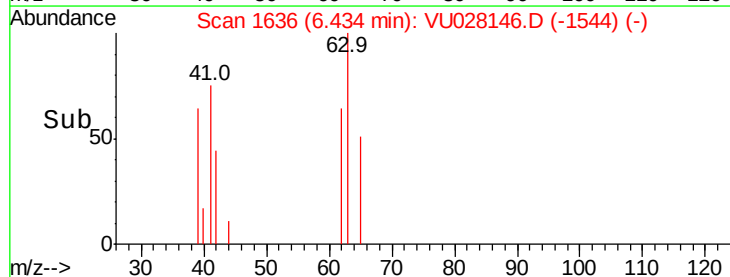
63 100

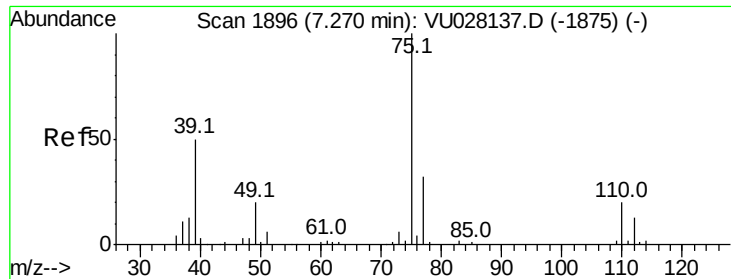
112 0.0 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

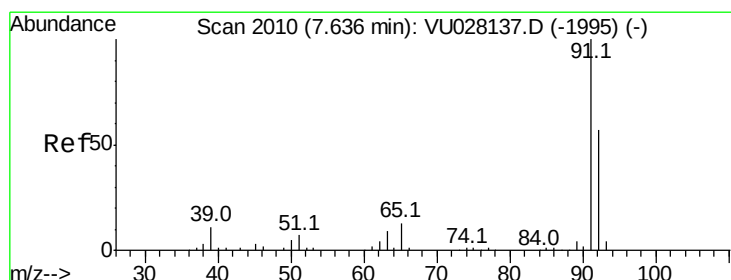
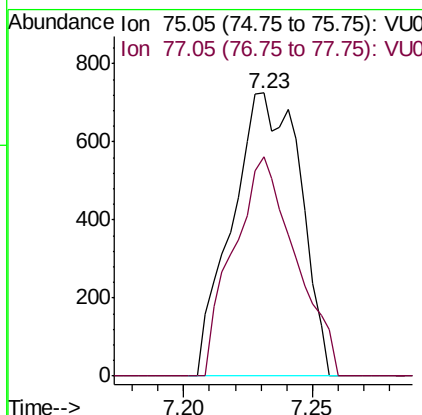
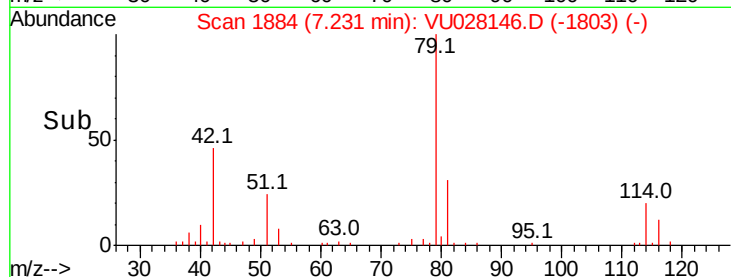
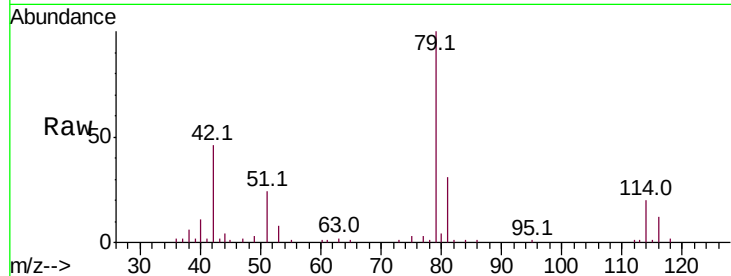




#39
 cis-1,3-Dichloropropene
 Concen: 0.080 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU028146.D
 Acq: 15 Nov 2018 02:06

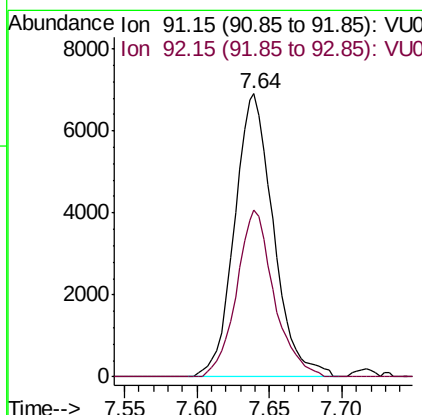
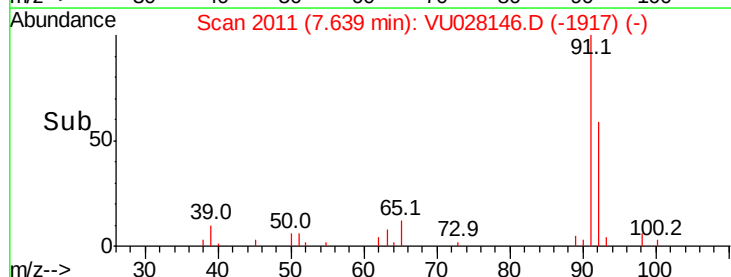
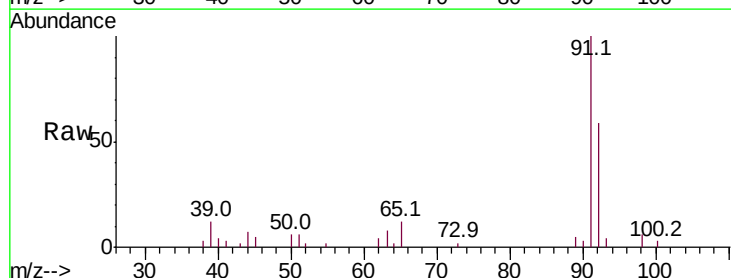
Instrument :
 MSVOA_U
 ClientSampled :

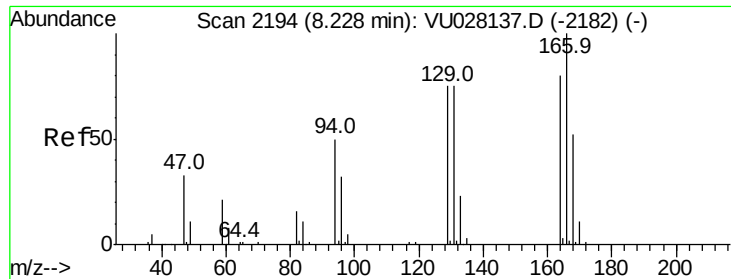
Tot Ion: 75 Resp: 1338
 Ion Ratio Lower Upper
 75 100
 77 77.5 20.9 38.9#



#42
 Toluene
 Concen: 0.278 ug/L
 RT: 7.64 min Scan# 2011
 Delta R.T. 0.00 min
 Lab File: VU028146.D
 Acq: 15 Nov 2018 02:06

Tgt Ion: 91 Resp: 12837
 Ion Ratio Lower Upper
 91 100
 92 59.0 40.7 75.7





#47

Tetrachloroethene

Concen: 0.087 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 779

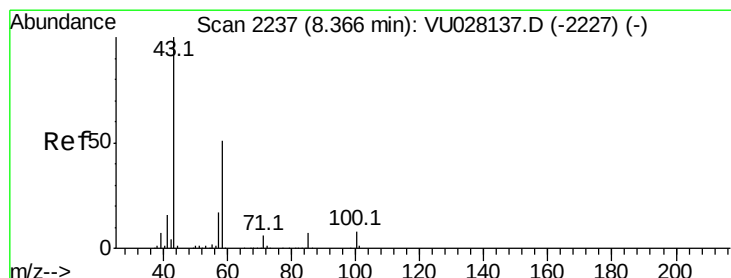
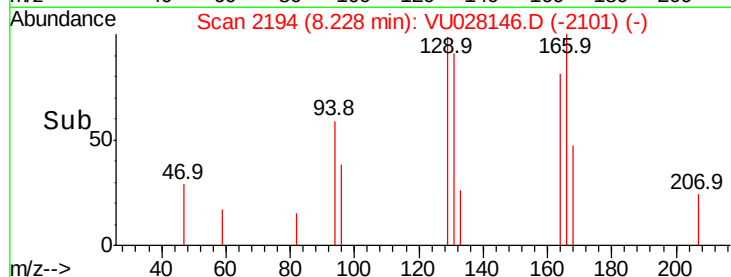
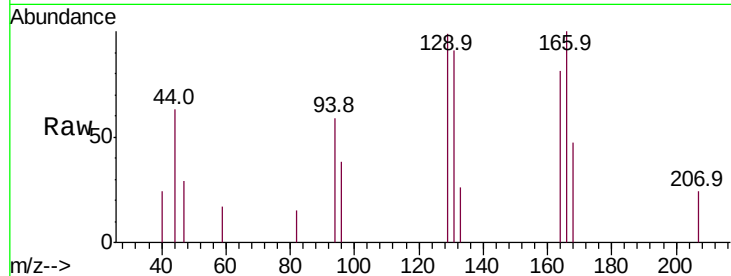
Ion Ratio Lower Upper

164 100

129 122.2 69.7 129.4

131 112.5 64.0 118.8

166 123.9 86.4 160.4



#48

2-Hexanone

Concen: 2.991 ug/L

RT: 8.32 min Scan# 2223

Delta R.T. -0.05 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Tgt Ion: 43 Resp: 18145

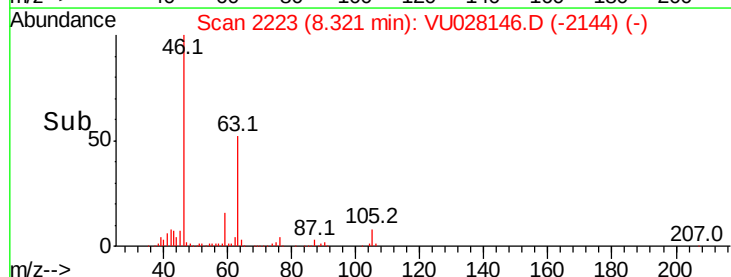
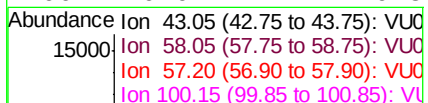
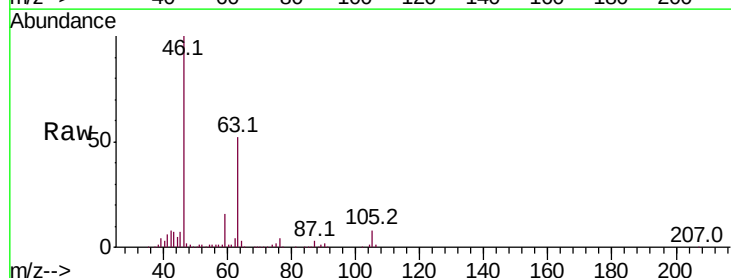
Ion Ratio Lower Upper

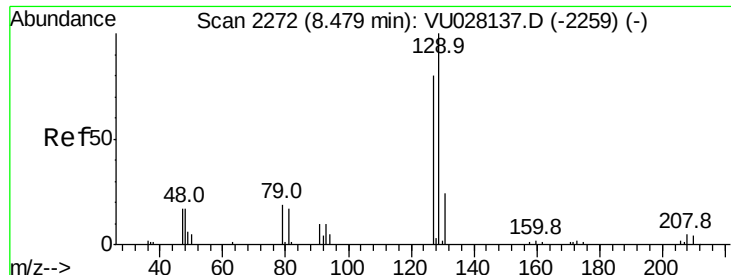
43 100

58 21.2 41.7 62.5#

57 23.6 14.0 21.0#

100 0.0 7.2 10.8#





#49

Dibromochloromethane

Concen: 0.115 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :

MSVOA_U

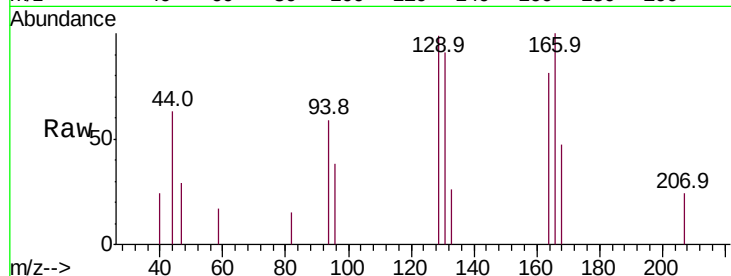
ClientSampleId :

Tot Ion:129 Resp: 916

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.23

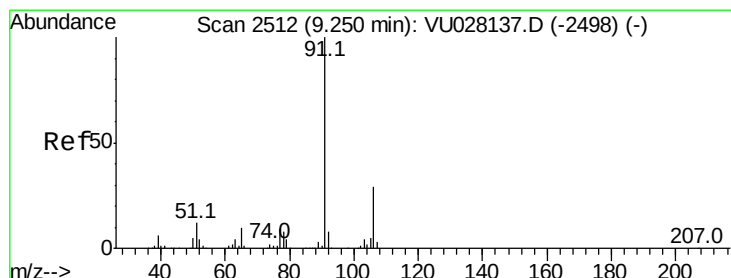
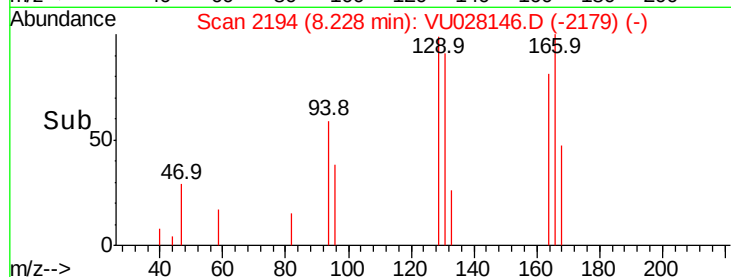
600

400

200

0

Time--> 8.18 8.20 8.22 8.24 8.26



#52

Ethylbenzene

Concen: 0.095 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU028146.D

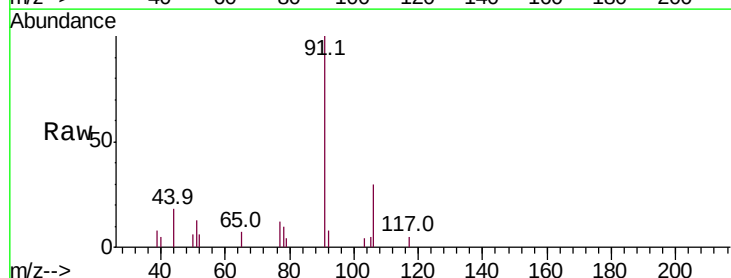
Acq: 15 Nov 2018 02:06

Tgt Ion: 91 Resp: 4799

Ion Ratio Lower Upper

91 100

106 29.6 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

9.25

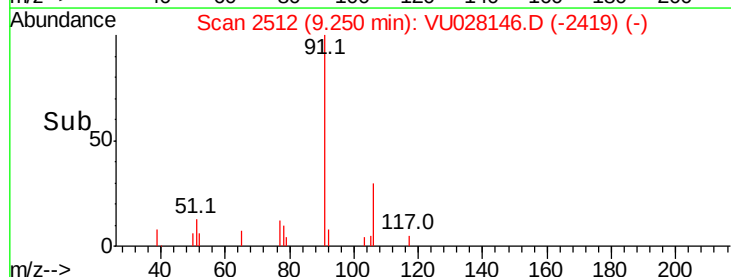
3000

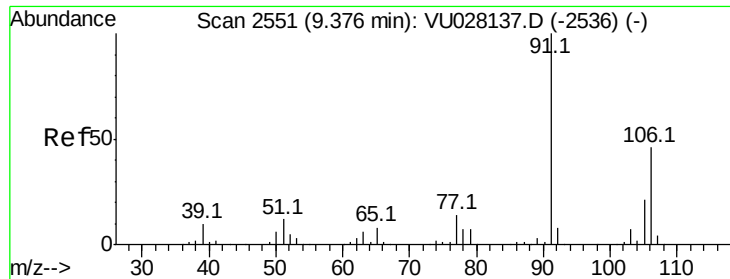
2000

1000

0

Time--> 9.20 9.25 9.30

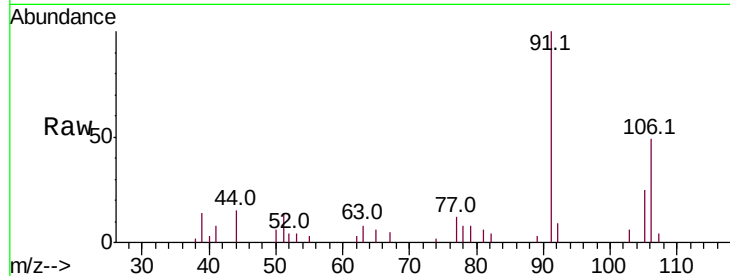




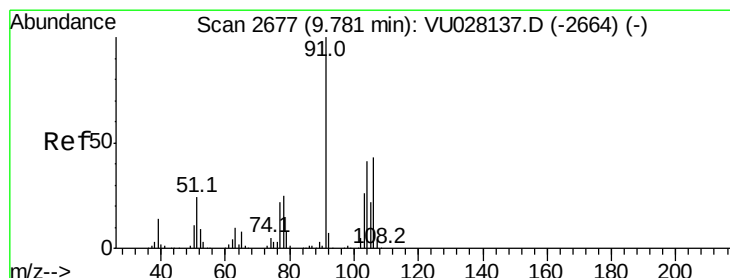
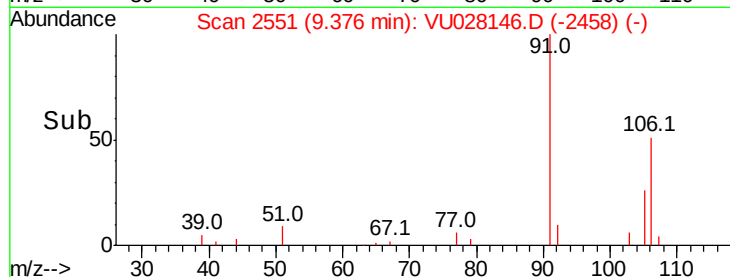
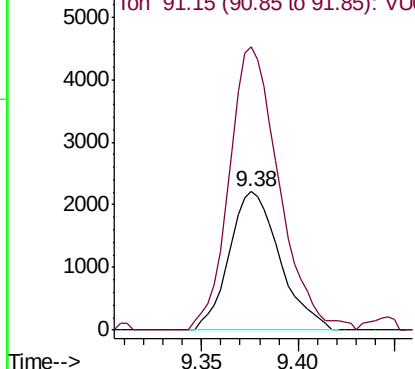
#53
m,p-xylene
Concen: 0.218 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VU028146.D
Acq: 15 Nov 2018 02:06

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 4004
Ion Ratio Lower Upper
106 100
91 204.4 145.7 270.7

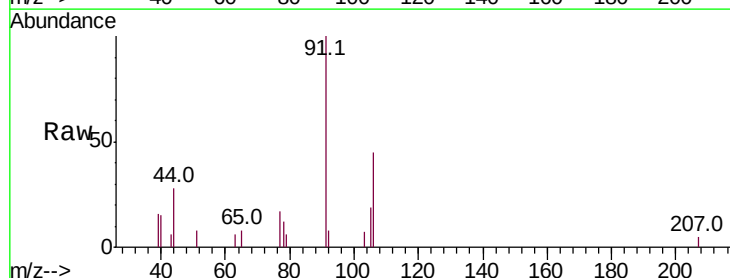


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

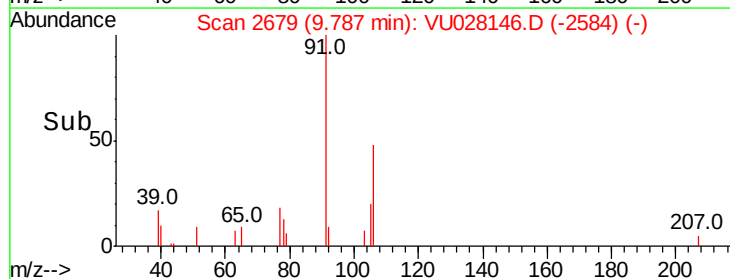
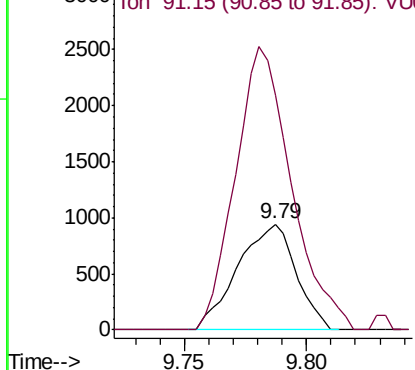


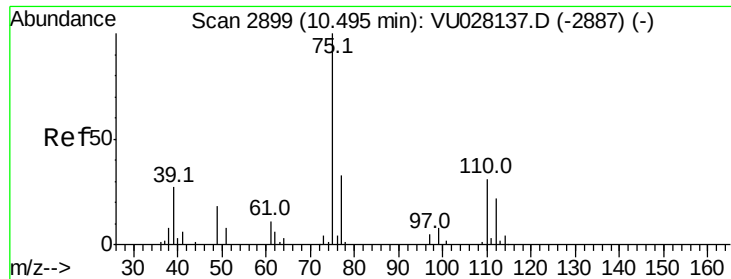
#54
o-xylene
Concen: 0.089 ug/L
RT: 9.79 min Scan# 2679
Delta R.T. 0.01 min
Lab File: VU028146.D
Acq: 15 Nov 2018 02:06

Tgt Ion:106 Resp: 1566
Ion Ratio Lower Upper
106 100
91 223.1 158.7 294.7



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.321 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :

MSVOA_U

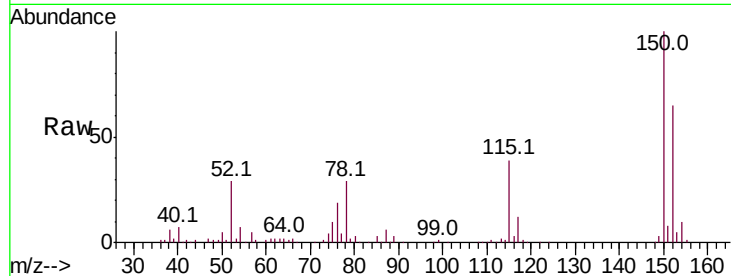
ClientSampleId :

Tot Ion: 75 Resp: 9188

Ion Ratio Lower Upper

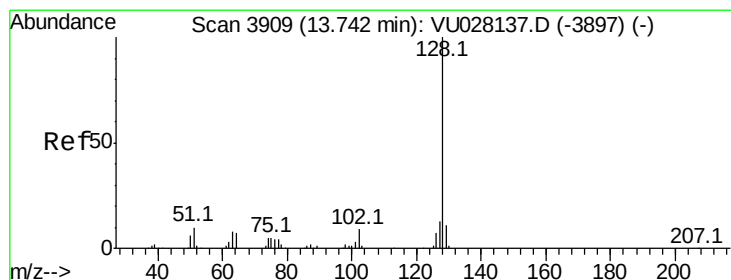
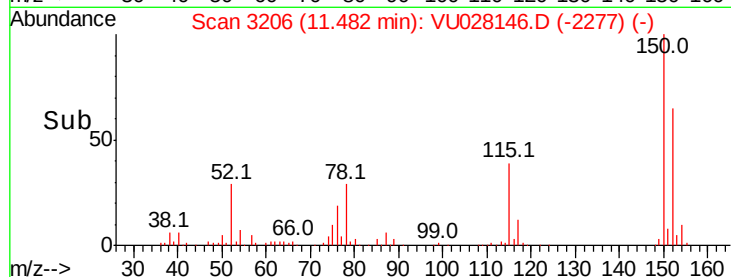
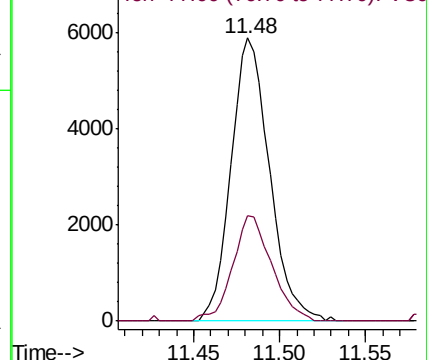
75 100

77 37.8 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#69

Naphthalene

Concen: 0.199 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

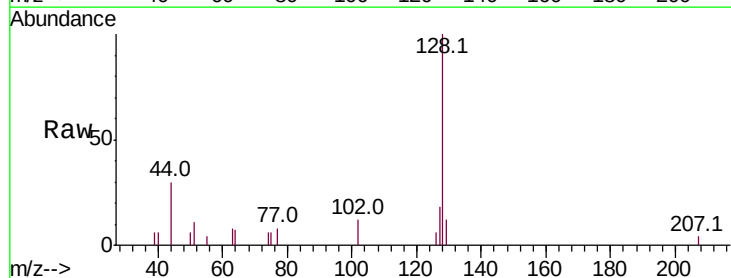
Tgt Ion: 128 Resp: 4952

Ion Ratio Lower Upper

128 100

129 8.6 8.5 12.7

127 14.3 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

