

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 :
 H0FH7

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

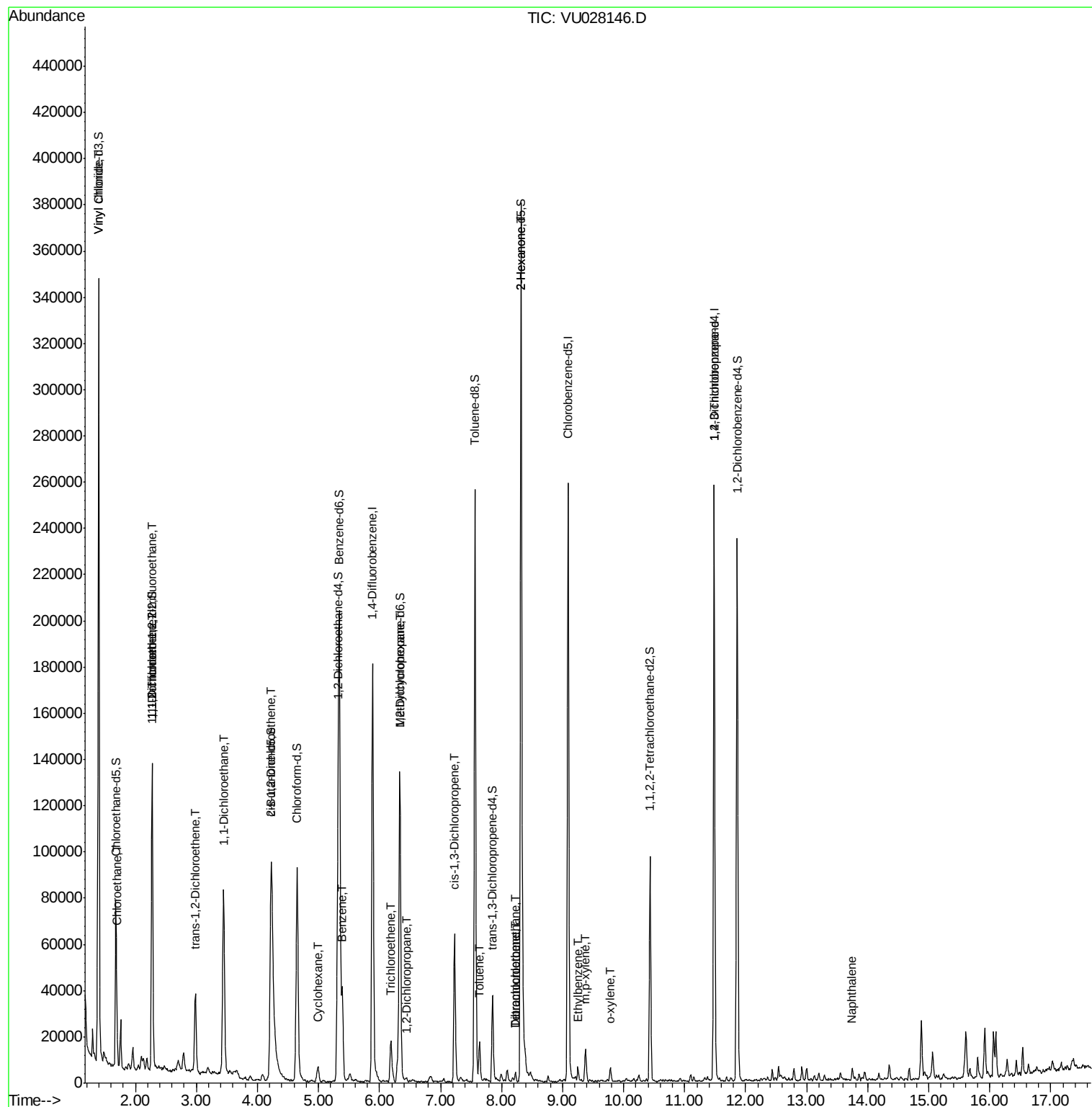
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.25	91	4799	0.095	ug/L	100
53) m,p-xylene	9.38	106	4004	0.218	ug/L	98
54) o-xylene	9.79	106	1566	0.089	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	9188	1.321	ug/L	89
69) Naphthalene	13.75	128	4952	0.199	ug/L	95

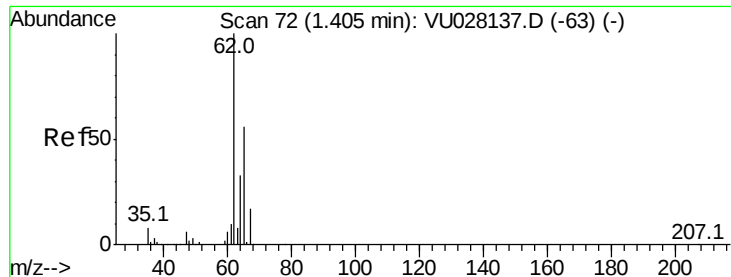
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

ClientSampled :

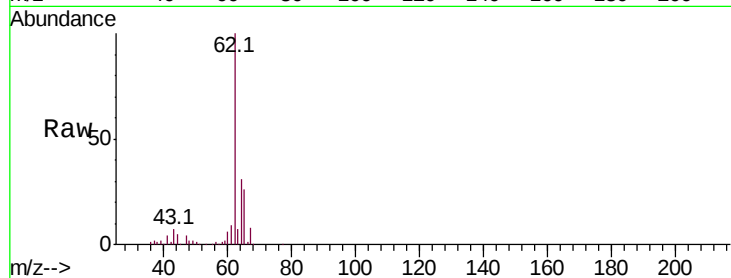
H0FH7

Tot Ion: 62 Resp: 161070

Ion Ratio Lower Upper

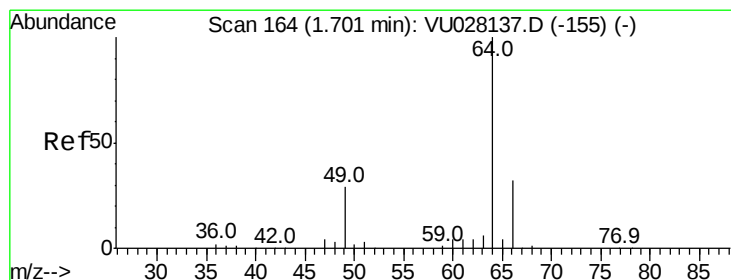
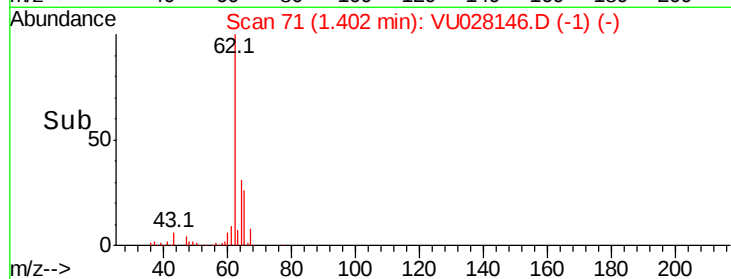
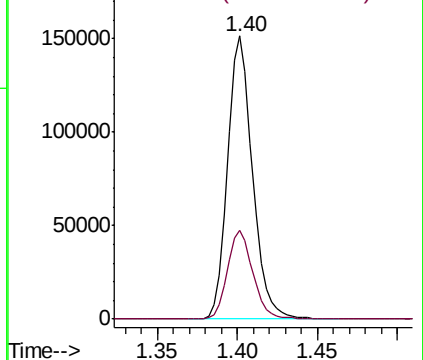
62 100

64 31.4 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.609 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028146.D

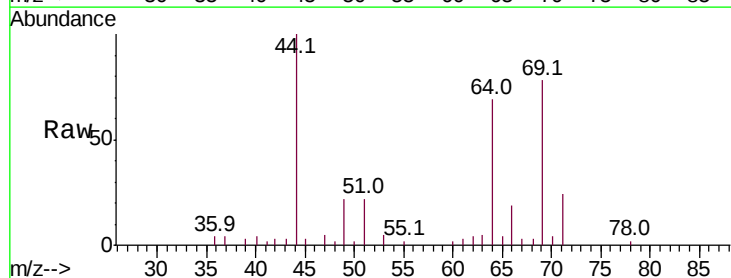
Acq: 15 Nov 2018 02:06

Tgt Ion: 64 Resp: 5584

Ion Ratio Lower Upper

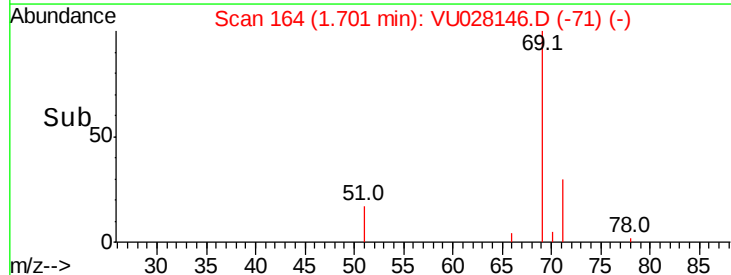
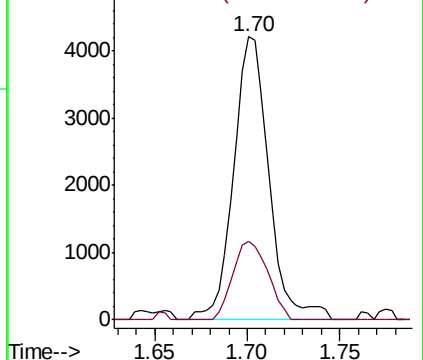
64 100

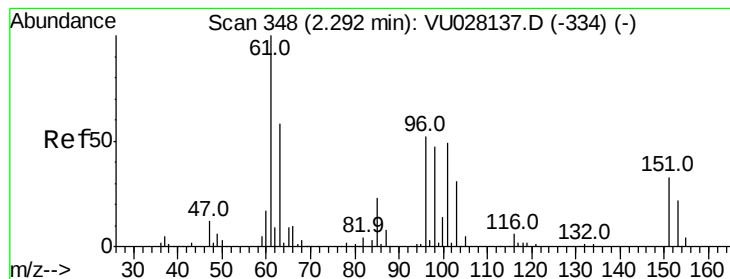
66 27.7 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#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 :

H0FH7

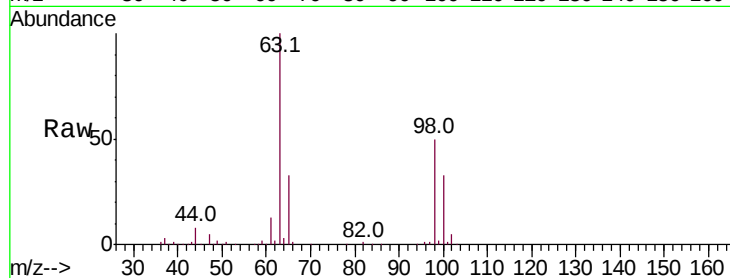
Tot Ion:101 Resp: 682

Ion Ratio Lower Upper

101 100

85 148.5 37.6 56.4#

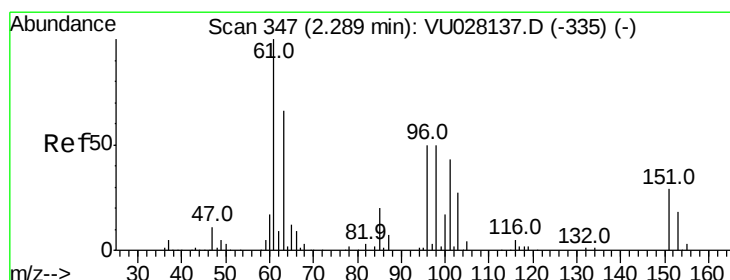
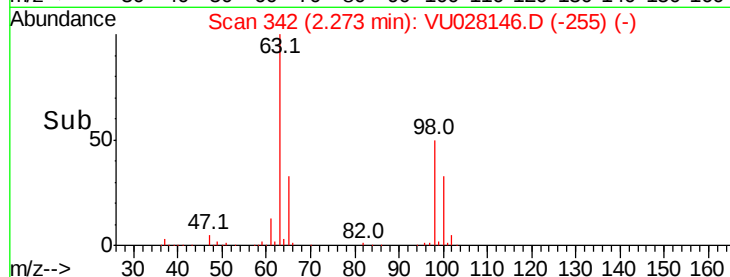
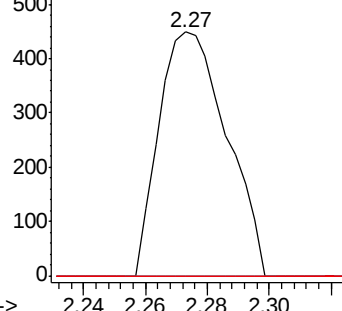
151 0.0 58.2 87.2#



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



#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

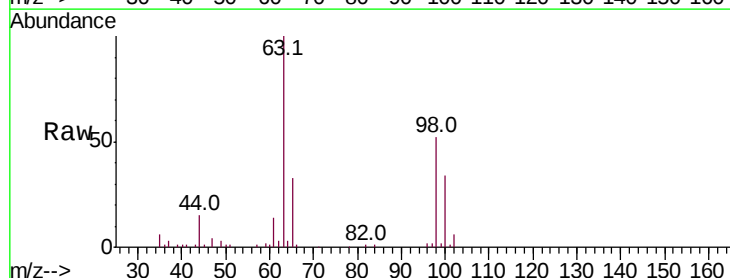
Tgt Ion: 96 Resp: 825

Ion Ratio Lower Upper

96 100

61 905.2 134.8 250.3#

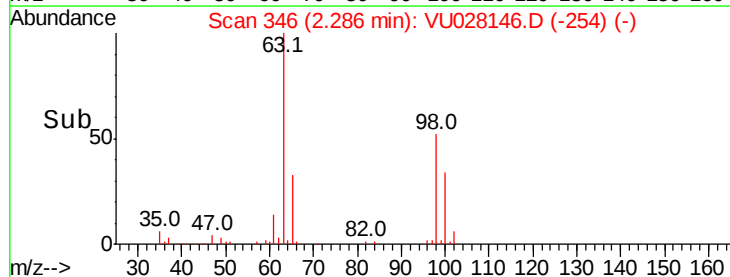
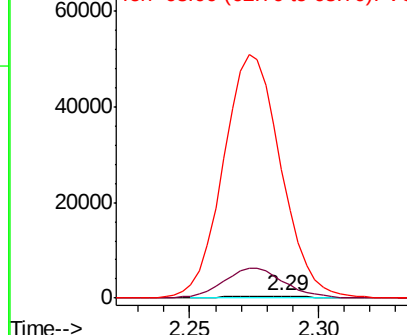
63 6650.9 100.1 185.9#

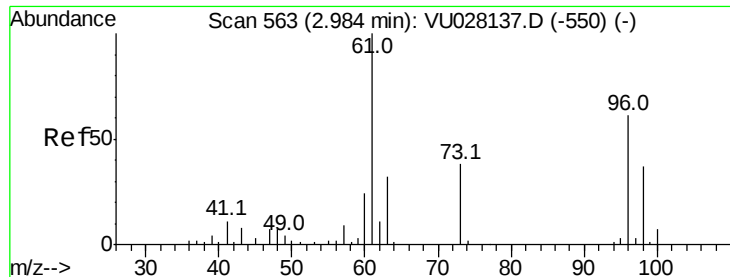


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#18

trans-1,2-Dichloroethene

Concen: 1.081 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

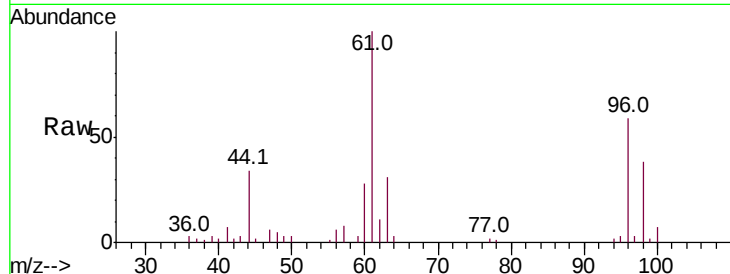
Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Instrument :
MSVOA_U
ClientSampled :
H0FH7

Tot Ion: 96 Resp: 10862

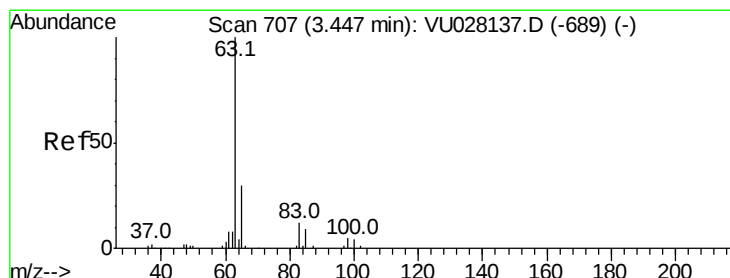
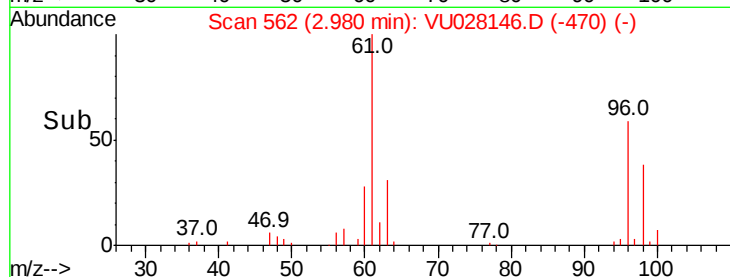
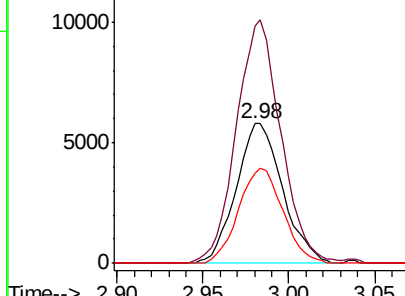
Ion	Ratio	Lower	Upper
96	100		
61	169.2	118.5	220.1
98	64.7	44.9	83.5



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

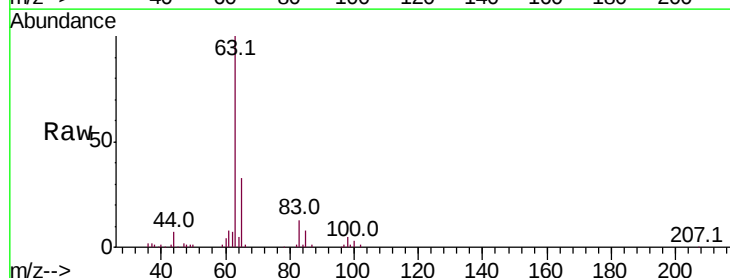
Delta R.T. -0.00 min

Lab File: VU028146.D

Acq: 15 Nov 2018 02:06

Tgt Ion: 63 Resp: 87582

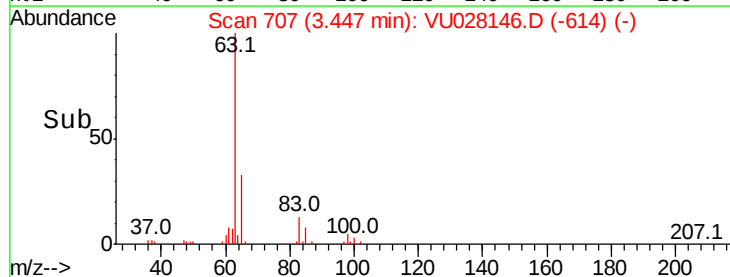
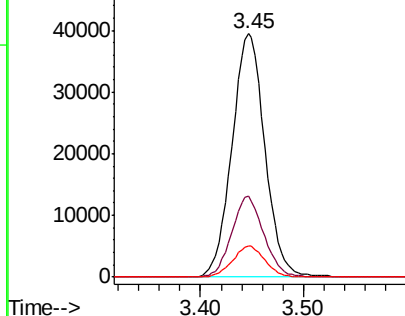
Ion	Ratio	Lower	Upper
63	100		
65	33.2	22.2	41.2
83	12.9	8.9	16.5

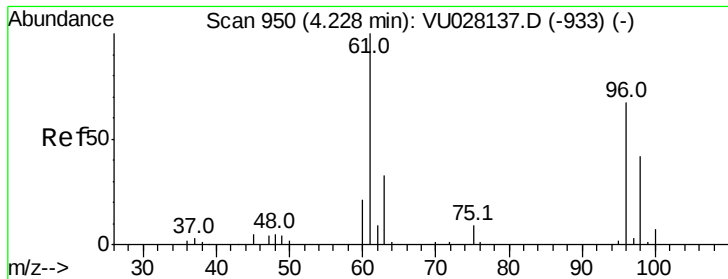


Abundance Ion 63.10 (62.80 to 63.80): VU0

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 :

H0FH7

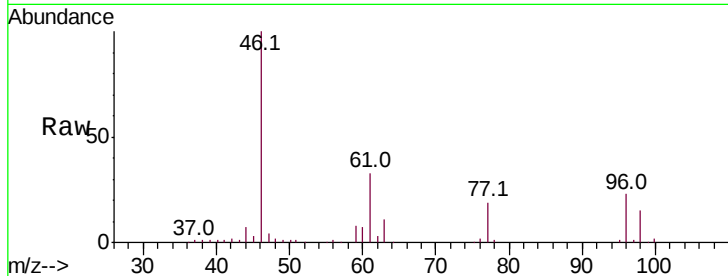
Tot Ion: 96 Resp: 20396

Ion Ratio Lower Upper

96 100

61 148.0 101.8 189.0

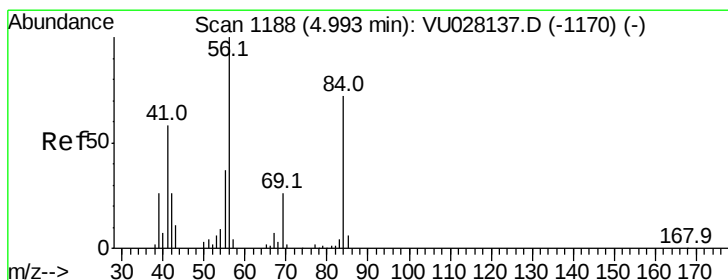
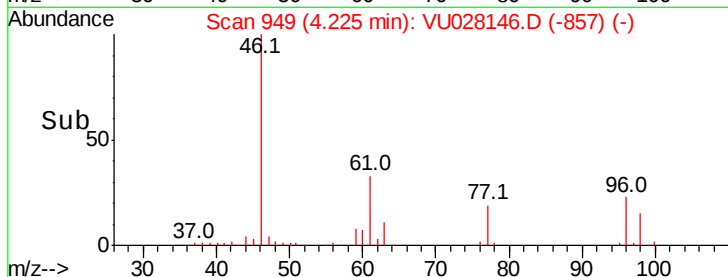
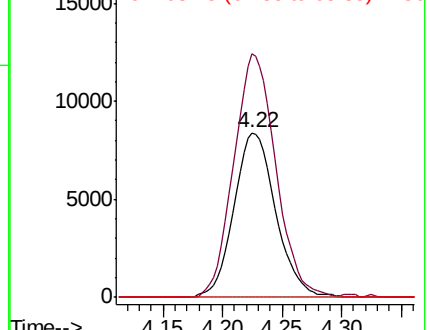
68 0.0 0.0 0.0



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

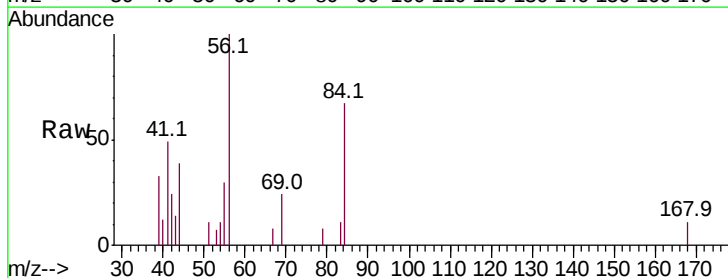
Tgt Ion: 56 Resp: 3525

Ion Ratio Lower Upper

56 100

69 30.0 22.6 33.8

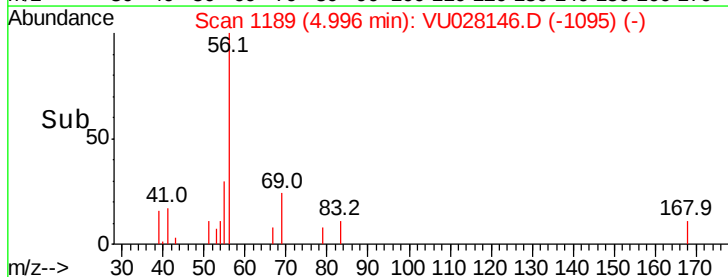
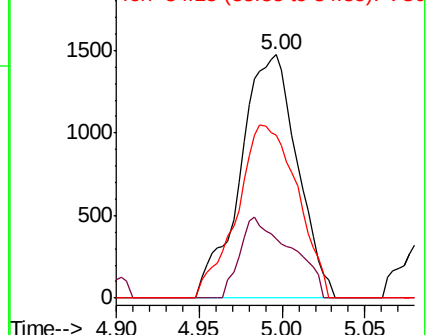
84 75.2 57.7 86.5

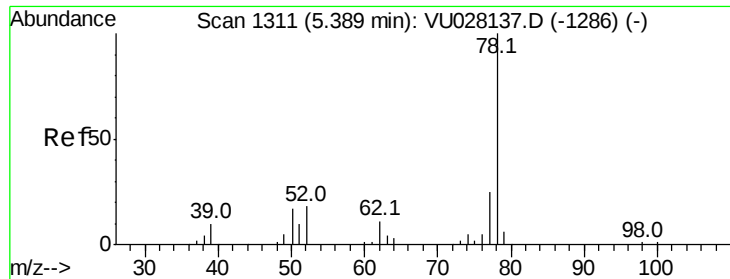


Abundance Ion 56.10 (55.80 to 56.80): VU0

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

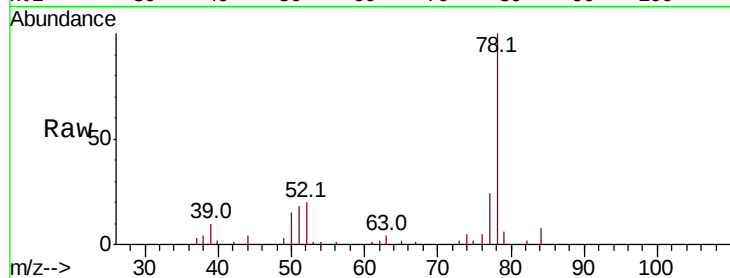
Instrument :

MSVOA_U

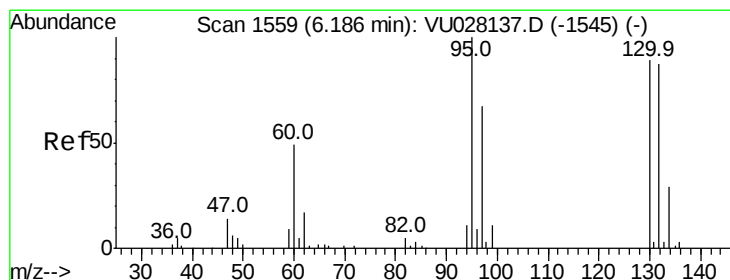
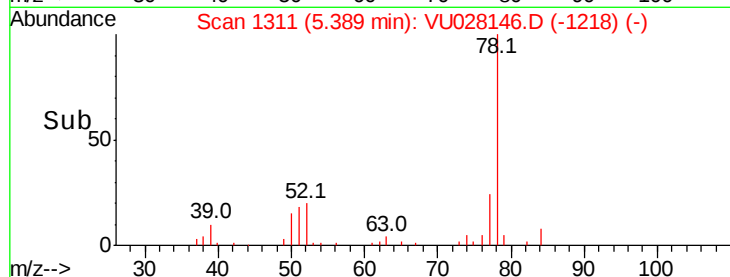
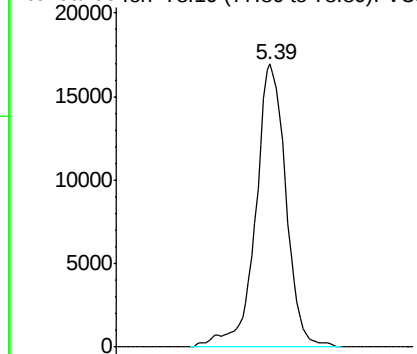
ClientSampled :

H0FH7

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

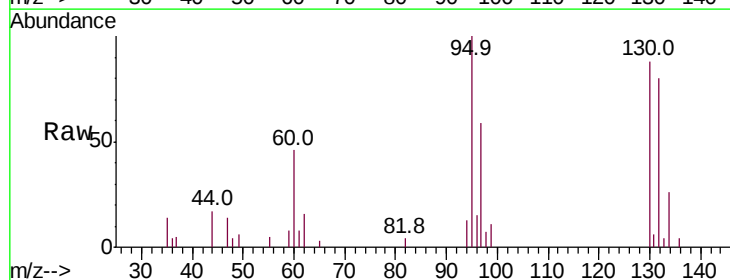
Ion	Ratio	Lower	Upper
95	100		
97	59.2	45.3	84.1
132	79.7	63.0	117.0
130	88.0	63.6	118.2

95 100

97 59.2 45.3 84.1

132 79.7 63.0 117.0

130 88.0 63.6 118.2

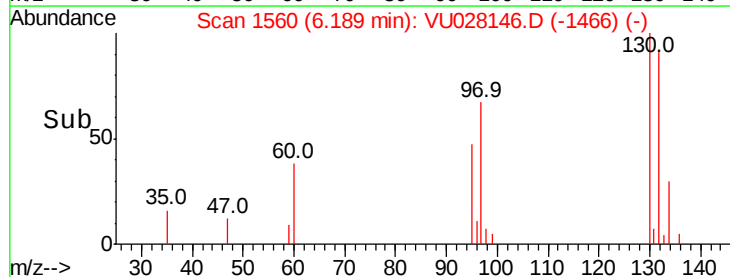
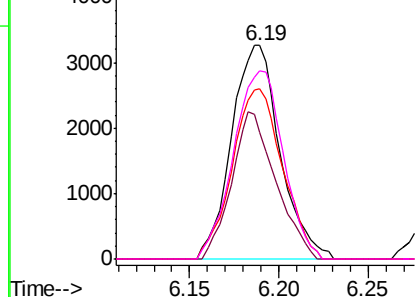


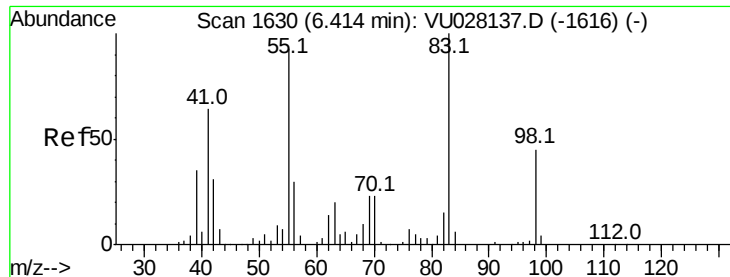
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

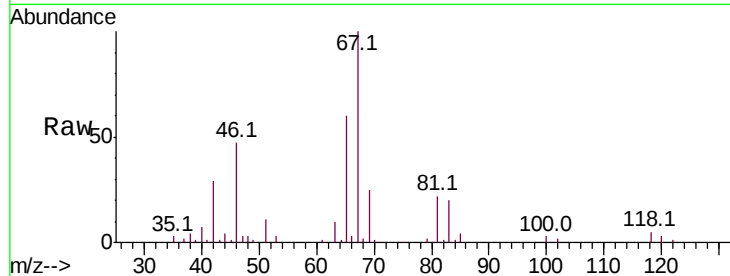




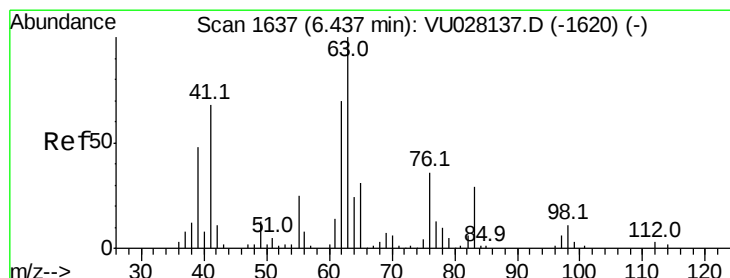
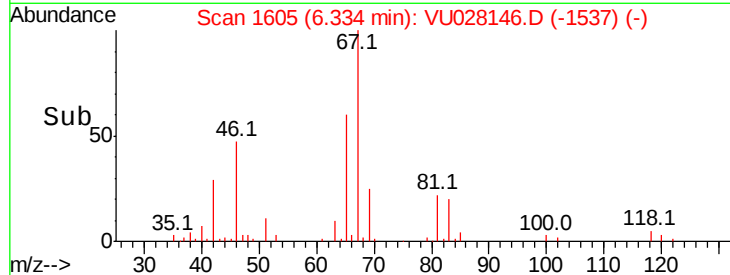
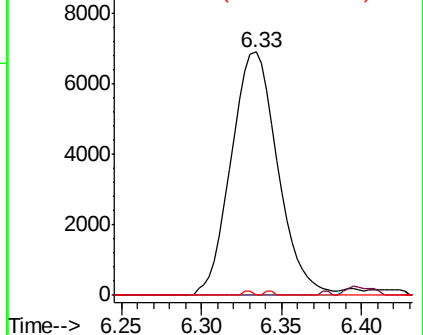
#35
Methylcyclohexane
Concen: 0.724 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU028146.D
Acq: 15 Nov 2018 02:06

Instrument :
MSVOA_U
ClientSampleId :
H0FH7

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#

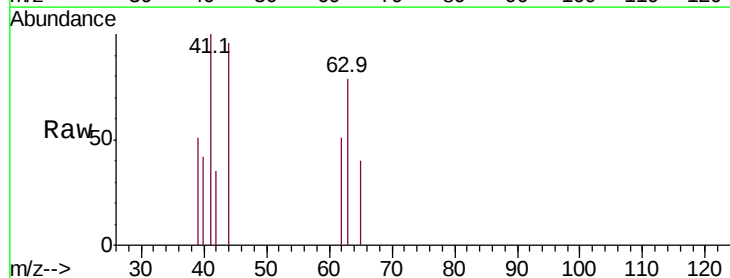


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

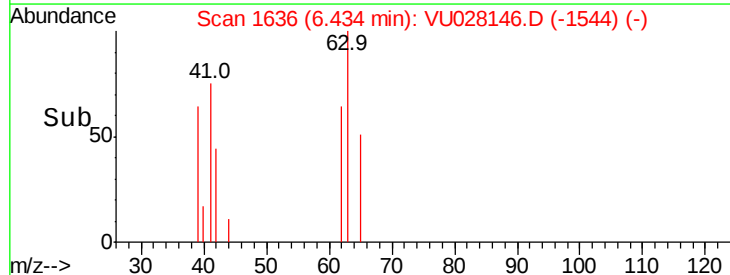
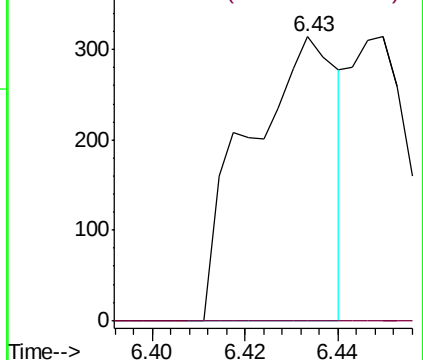


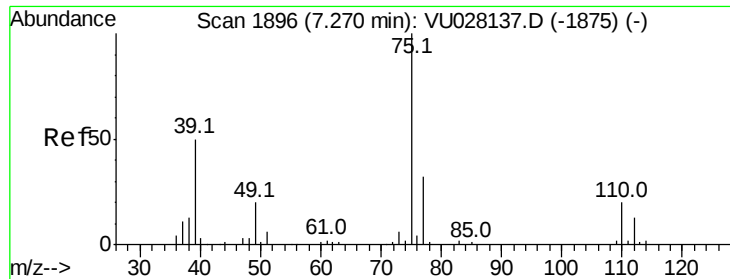
#37
1,2-Dichloropropane
Concen: 0.034 ug/L
RT: 6.43 min Scan# 1636
Delta R.T. -0.00 min
Lab File: VU028146.D
Acq: 15 Nov 2018 02:06

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



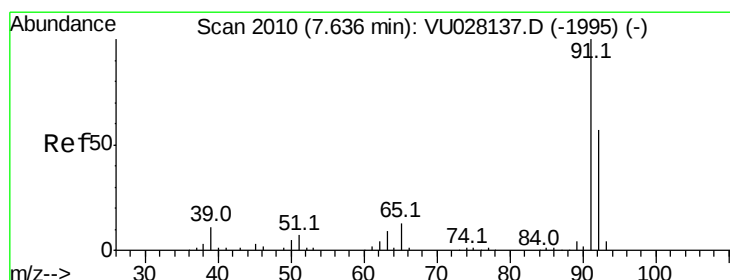
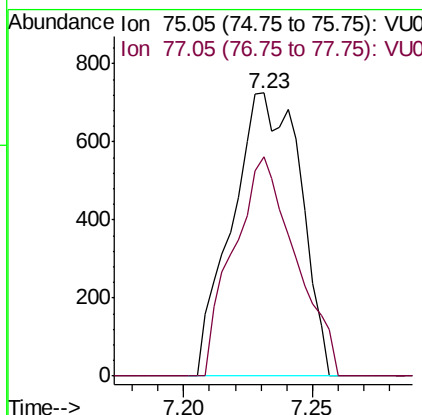
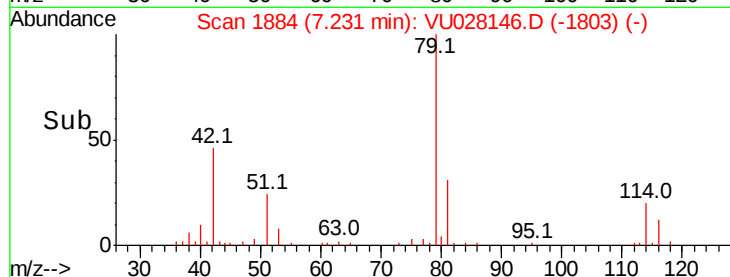
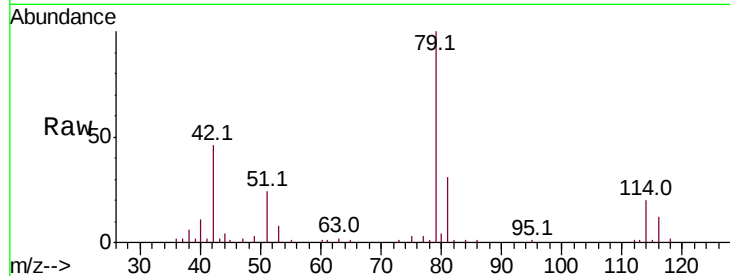


#39

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
ClientSampleId :
H0FH7

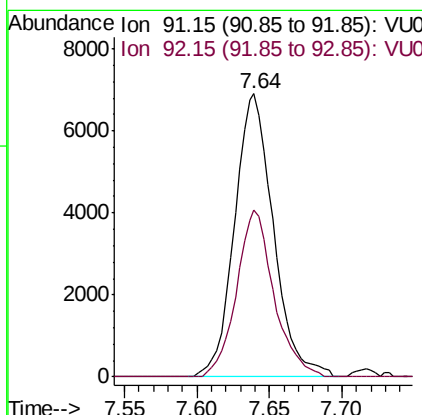
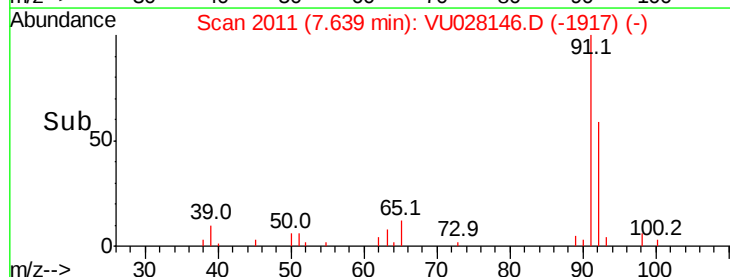
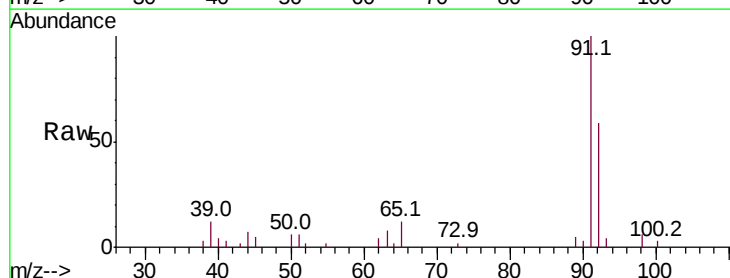
Tot Ion: 75 Resp: 1338
Ion Ratio Lower Upper
75 100
77 77.5 20.9 38.9#

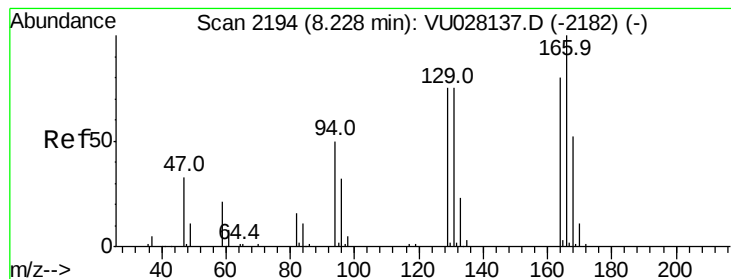


#42

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 :
H0FH7

Tot Ion:164 Resp: 779

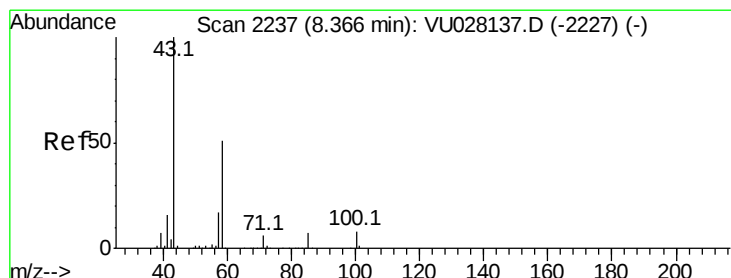
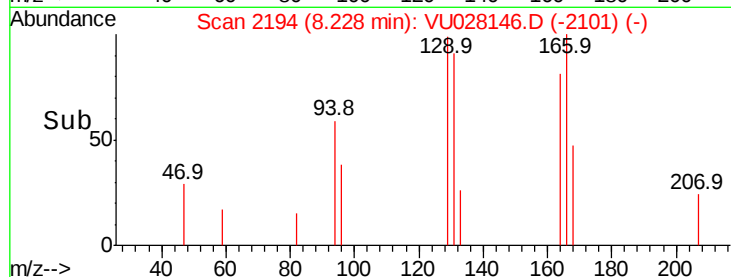
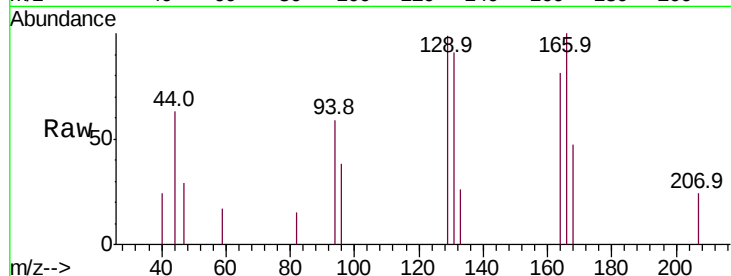
Ion Ratio Lower Upper

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

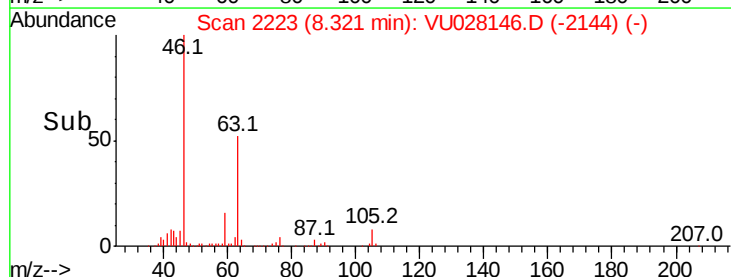
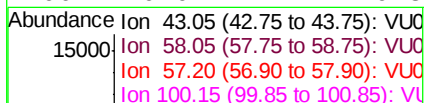
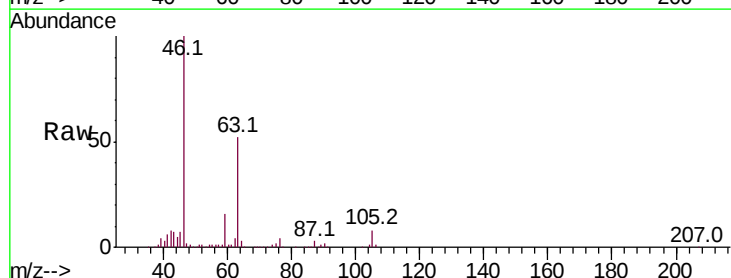
Ion Ratio Lower Upper

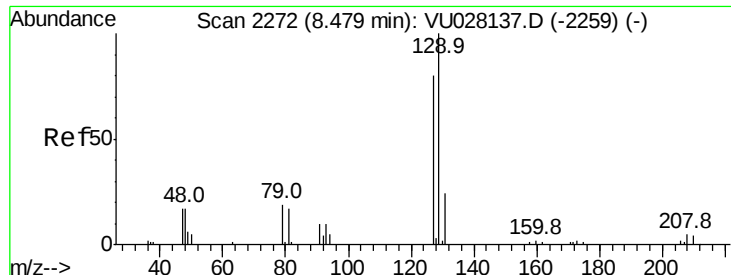
43 100

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 :

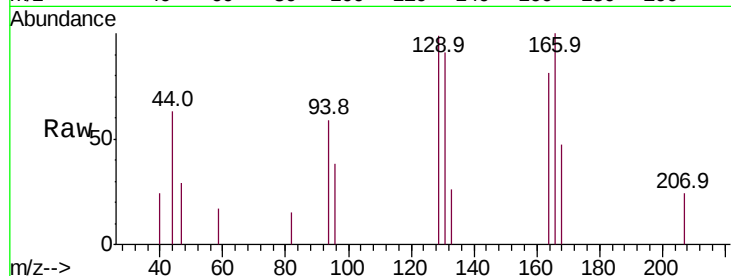
H0FH7

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

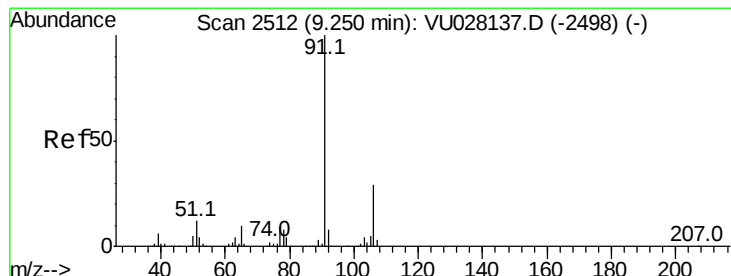
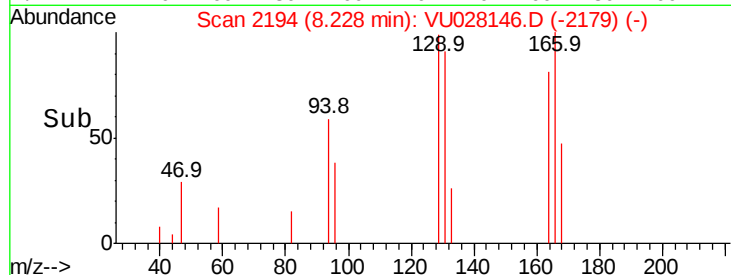
600

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

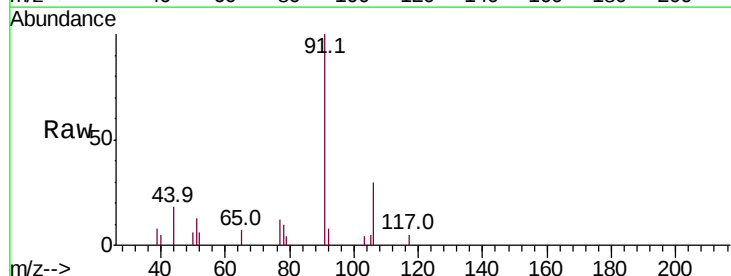
Acq: 15 Nov 2018 02:06

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

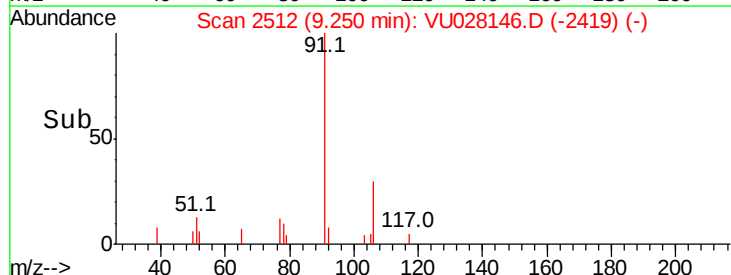
3000

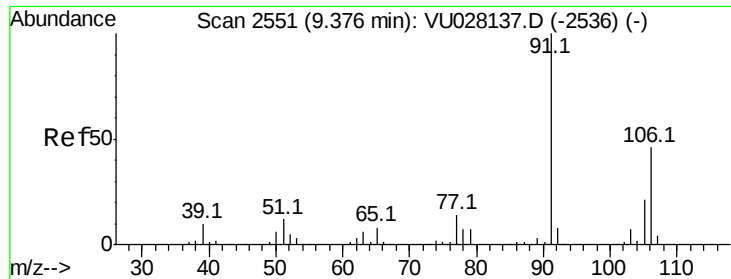
2000

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

ClientSampleId :

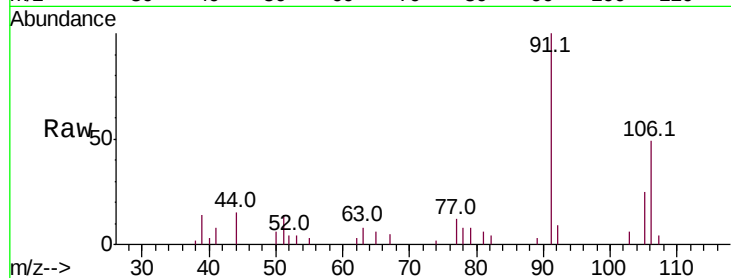
H0FH7

Tot Ion:106 Resp: 4004

Ion Ratio Lower Upper

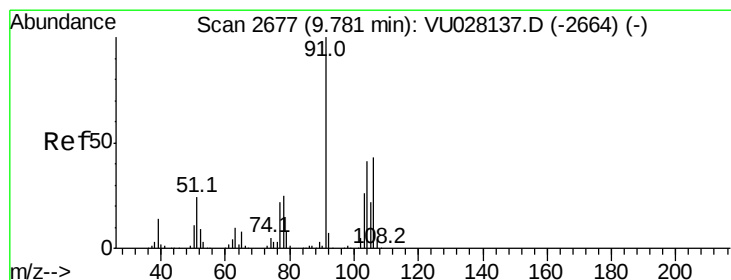
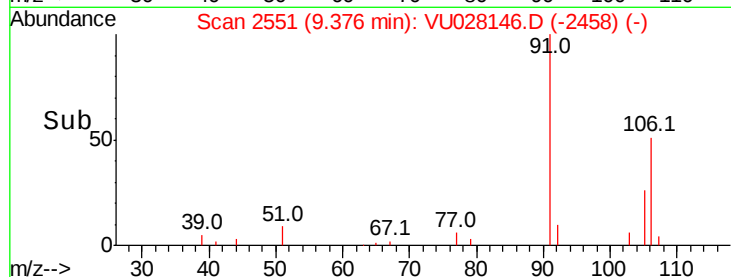
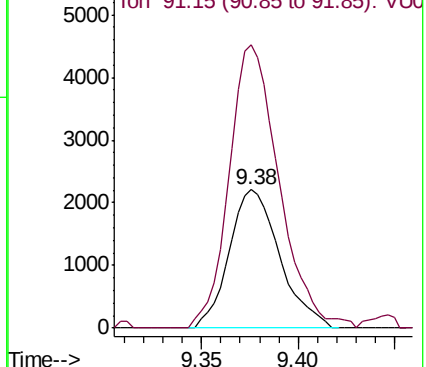
106 100

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

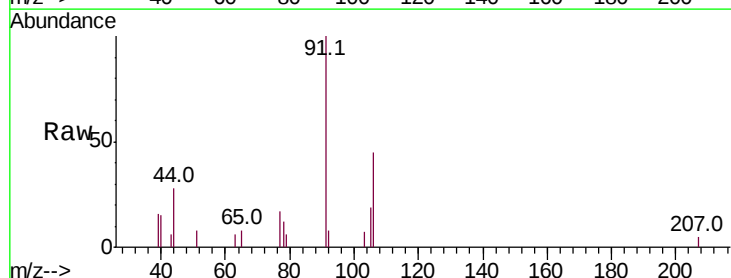
Acq: 15 Nov 2018 02:06

Tgt Ion:106 Resp: 1566

Ion Ratio Lower Upper

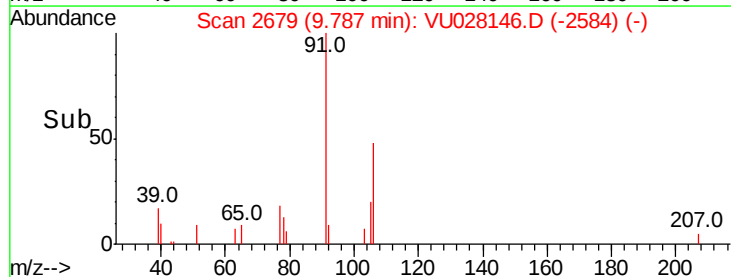
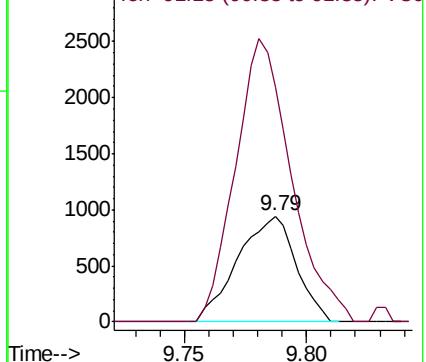
106 100

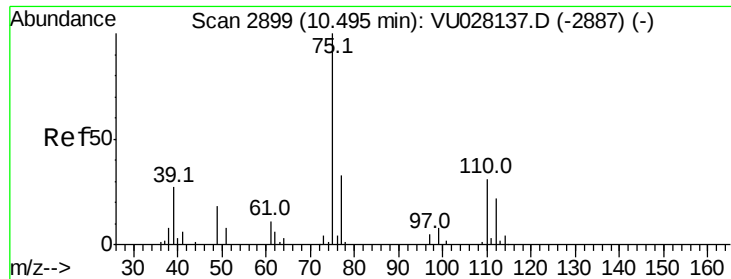
91 223.1 158.7 294.7



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 :

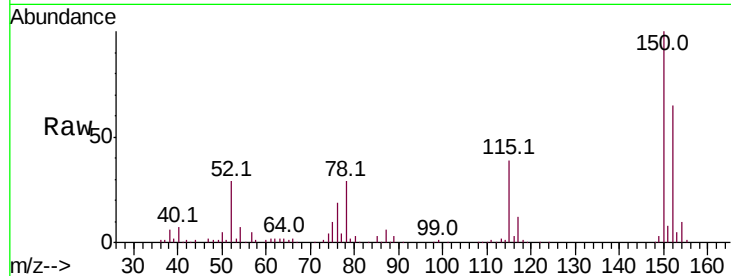
H0FH7

Tot Ion: 75 Resp: 9188

Ion Ratio Lower Upper

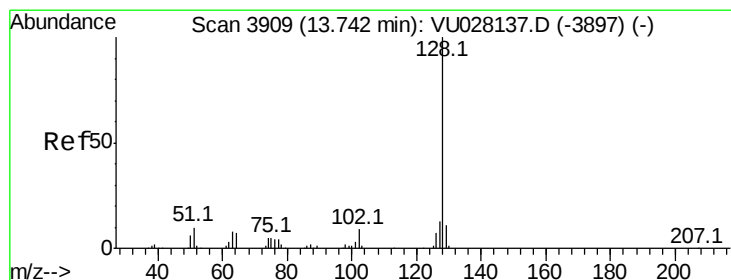
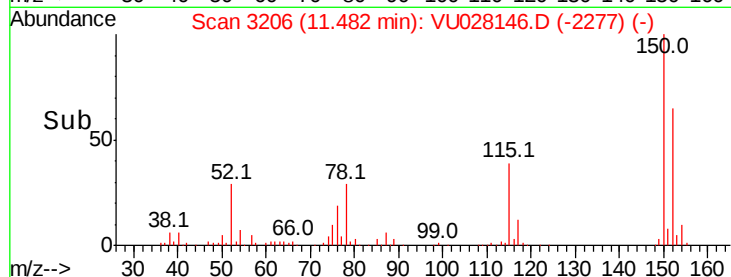
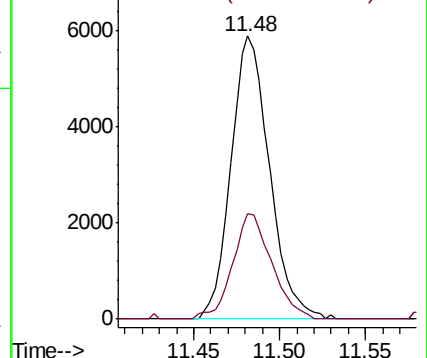
75 100

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

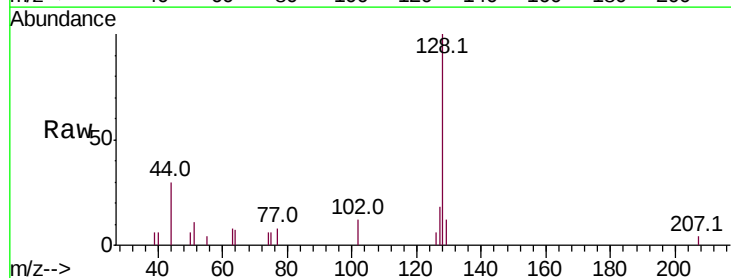
Tgt Ion: 128 Resp: 4952

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

