

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028151.D
 Acq On : 15 Nov 2018 04:05
 Operator : MD/SY
 Sample : J5943-13MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FL1MS

Quant Time: Nov 15 06:19:36 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	134423	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	127026	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	60563	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	53154	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.68	69	40046	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.28	63	96754	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.80%
20) 2-Butanone-d5	4.21	46	182652	56.46	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.92%
24) Chloroform-d	4.65	84	84326	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.31	65	50369	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.34	84	173647	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.33	67	64112	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.57	98	154043	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	7.85	79	19039	4.09	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.80%
46) 2-Hexanone-d5	8.31	63	139703	52.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.14%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	46261	5.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	53481	4.73	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.60%

Target Compounds

					Ovalue
3) Chloromethane	1.40	50	5407	0.357 ug/L #	42
5) Vinyl chloride	1.40	62	812313	56.417 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	771	0.087 ug/L #	21
12) 1,1-Dichloroethene	2.29	96	44353	4.962 ug/L	91
13) Acetone	2.34	43	1613	0.740 ug/L	63
18) trans-1,2-Dichloroethene	2.98	96	76893	8.092 ug/L	100
19) 1,1-Dichloroethane	3.45	63	144314	7.221 ug/L	99
22) cis-1,2-Dichloroethene	4.23	96	352097	33.607 ug/L	98
27) 1,2-Dichloroethane	5.39	62	2617	0.222 ug/L #	76
30) Cyclohexane	4.99	56	1616	0.080 ug/L #	70
33) Benzene	5.39	78	237993	5.562 ug/L	100
34) Trichloroethene	6.19	95	57313	5.419 ug/L	98
35) Methylcyclohexane	6.33	83	13284	0.731 ug/L #	16
37) 1,2-Dichloropropane	6.44	63	766	0.065 ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	1297	0.081 ug/L	83
42) Toluene	7.64	91	216850	4.915 ug/L	96
47) Tetrachloroethene	8.23	164	614	0.071 ug/L #	75

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QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

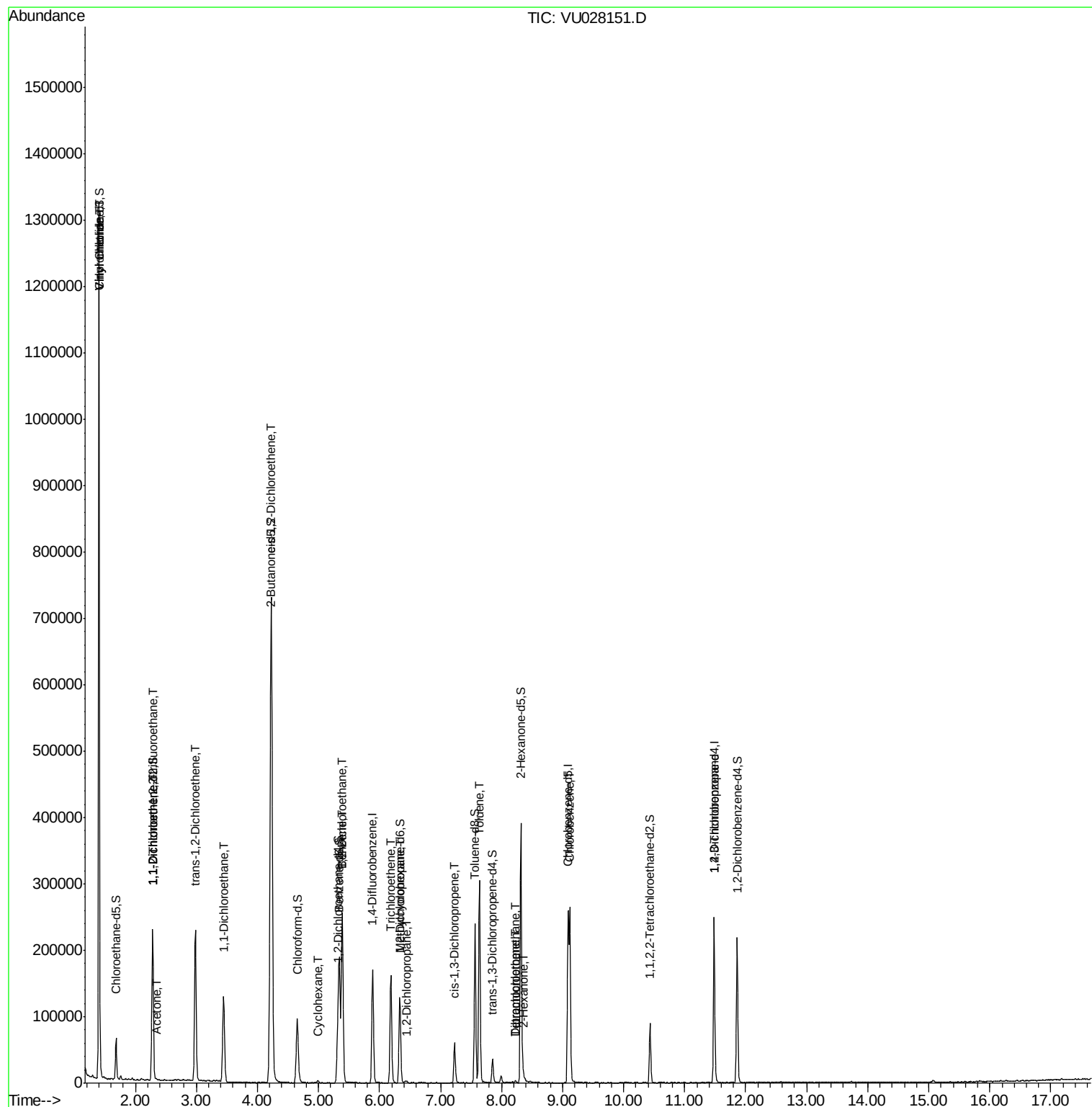
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.37	43	1768	0.305	ug/L #	80
49) Dibromochloromethane	8.23	129	608	0.080	ug/L #	11
51) Chlorobenzene	9.12	112	125085	4.848	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	9021	1.357	ug/L	92

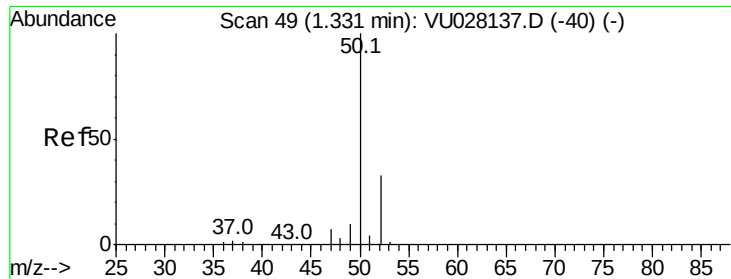
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.357 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.07 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

Instrument :

MSVOA_U

ClientSampleId :

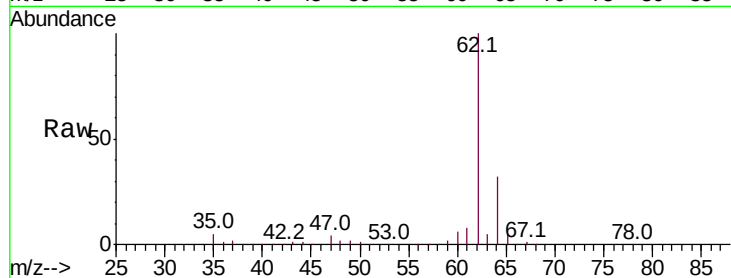
H0FL1MS

Tot Ion: 50 Resp: 5407

Ion Ratio Lower Upper

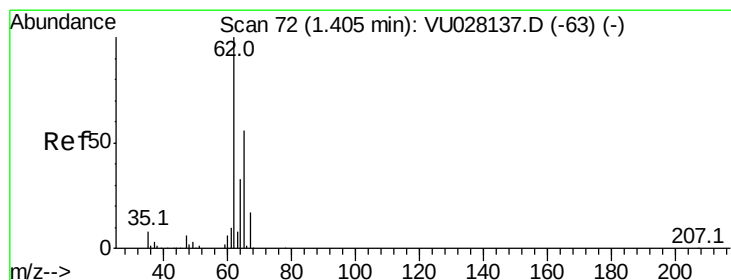
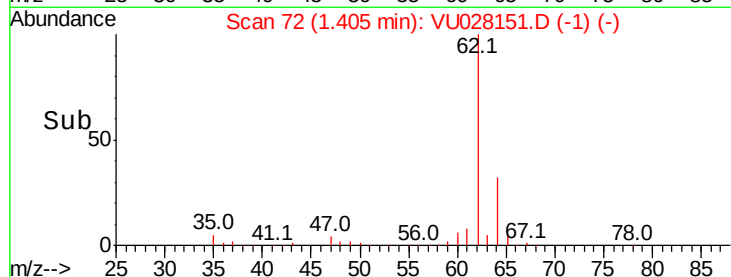
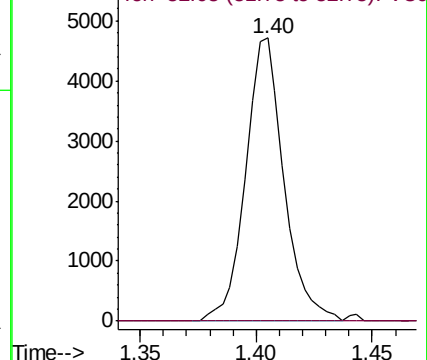
50 100

52 0.0 23.0 42.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 56.417 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028151.D

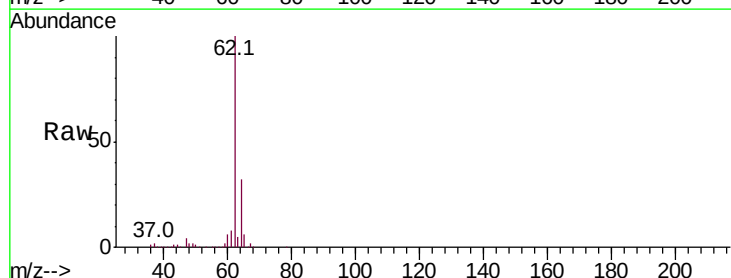
Acq: 15 Nov 2018 04:05

Tgt Ion: 62 Resp: 812313

Ion Ratio Lower Upper

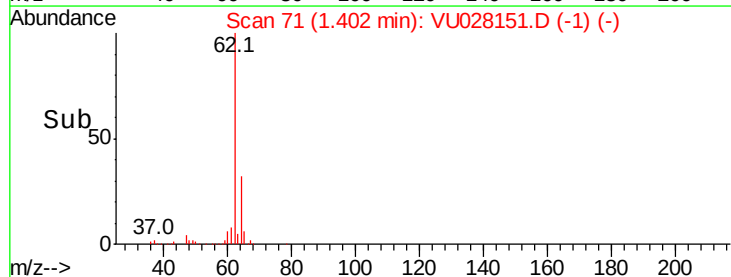
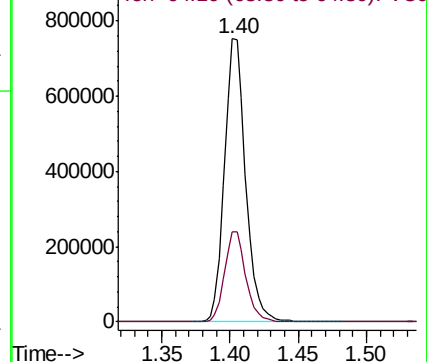
62 100

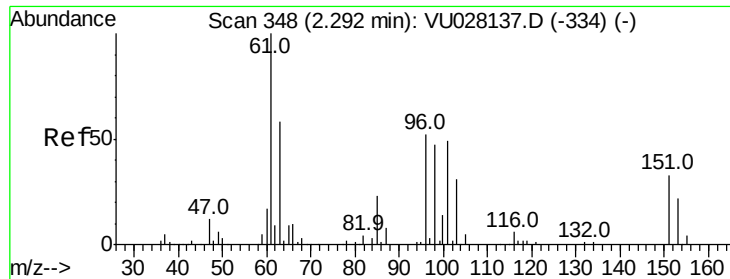
64 31.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#10

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

Concen: 0.087 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MS

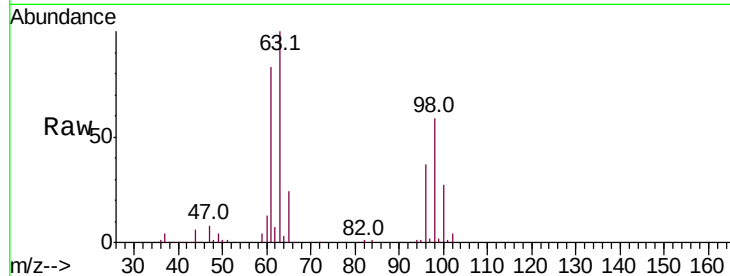
Tot Ion:101 Resp: 771

Ion Ratio Lower Upper

101 100

85 2.6 37.6 56.4#

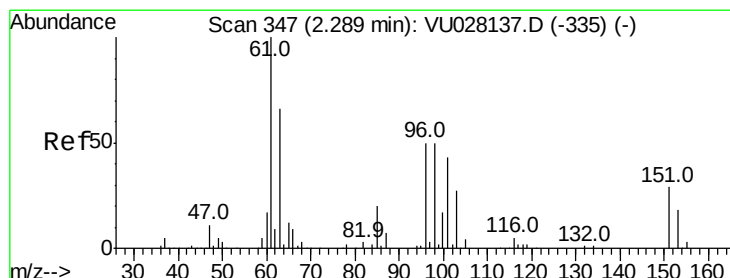
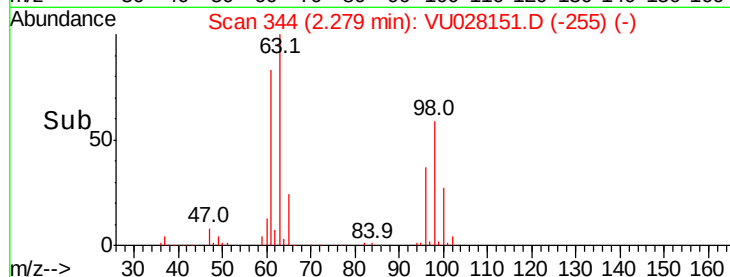
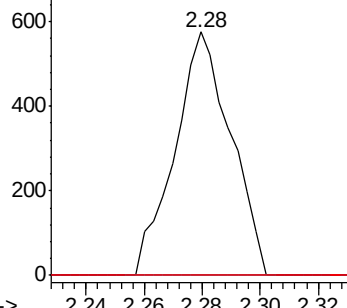
151 0.0 58.2 87.2#



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: 4.962 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

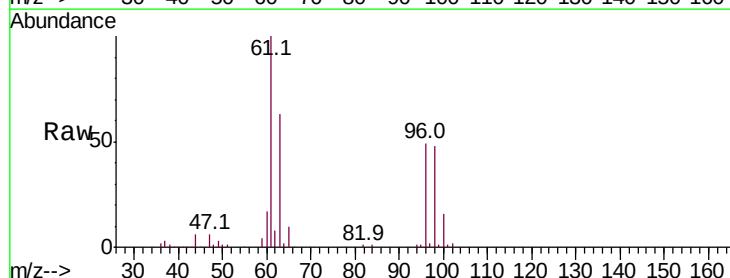
Tgt Ion: 96 Resp: 44353

Ion Ratio Lower Upper

96 100

61 202.6 134.8 250.3

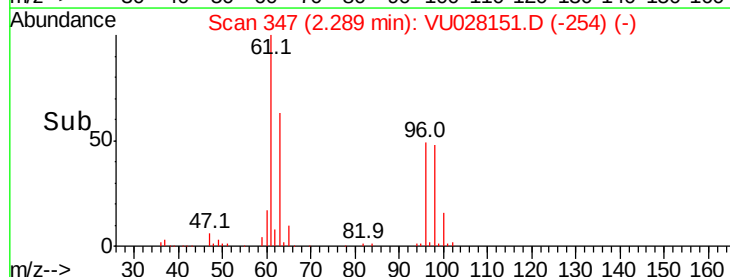
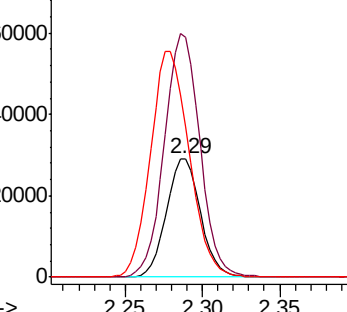
63 126.9 100.1 185.9

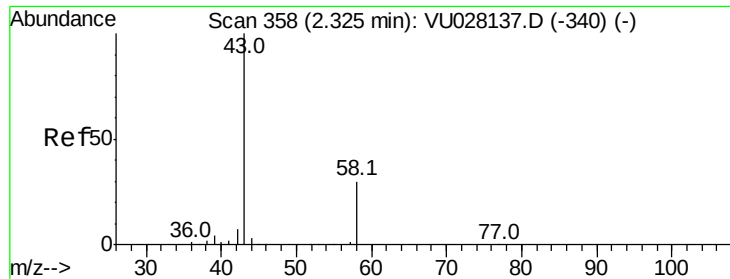


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.740 ug/L

RT: 2.34 min Scan# 364

Delta R.T. 0.02 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

Instrument :

MSVOA_U

ClientSampleId :

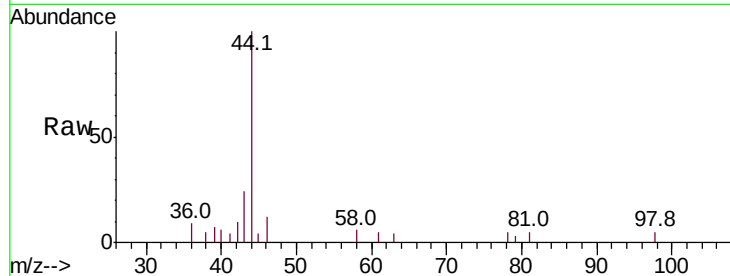
H0FL1MS

Tot Ion: 43 Resp: 1613

Ion Ratio Lower Upper

43 100

58 10.3 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.34

800

600

400

200

0

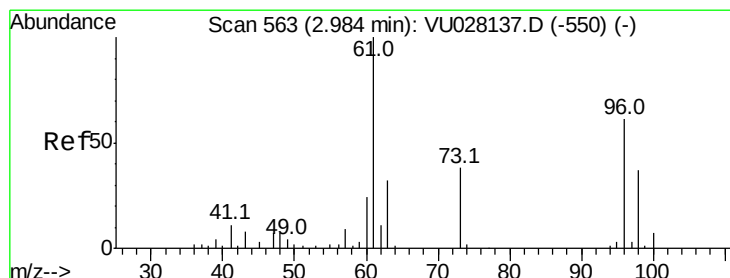
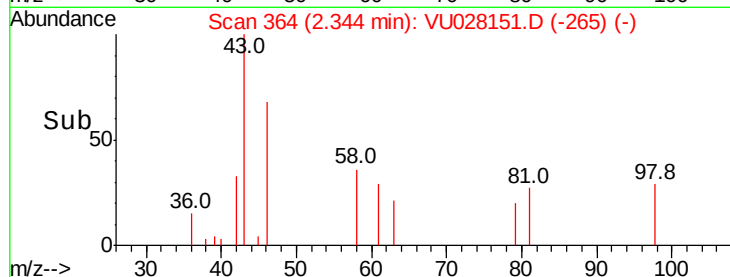
Time-->

2.25

2.30

2.35

2.40



#18

trans-1,2-Dichloroethene

Concen: 8.092 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

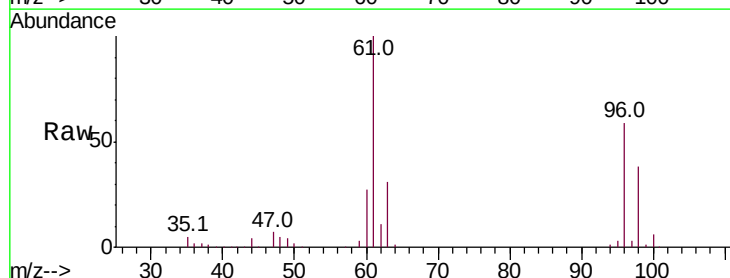
Tgt Ion: 96 Resp: 76893

Ion Ratio Lower Upper

96 100

61 168.9 118.5 220.1

98 63.7 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

100000

80000

60000

40000

20000

0

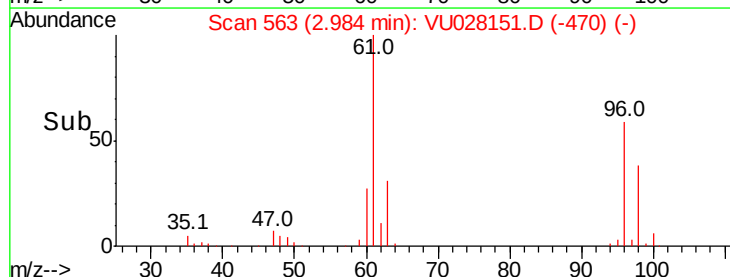
Time-->

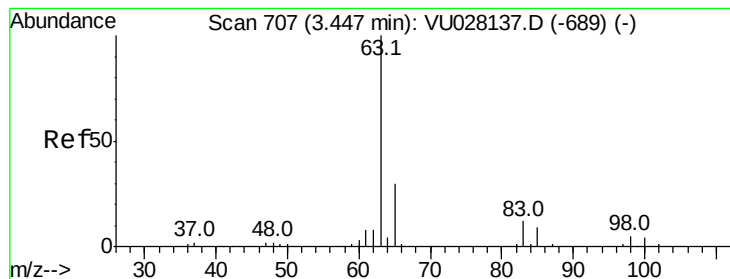
2.90

2.95

3.00

3.05

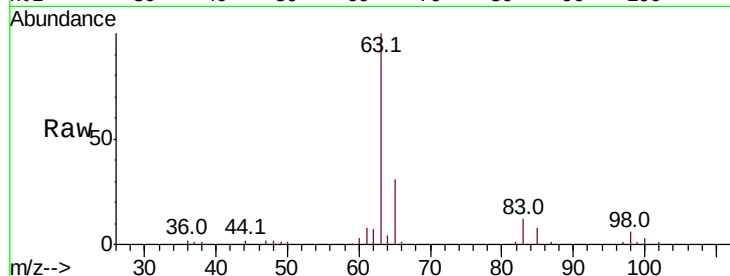




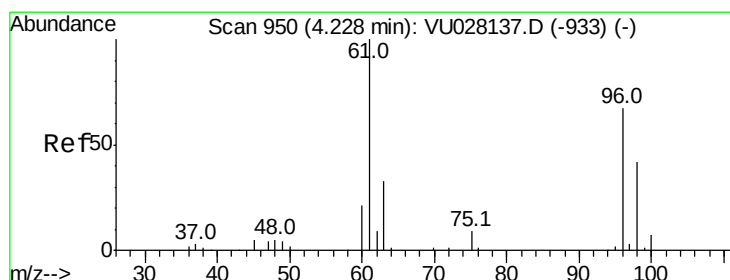
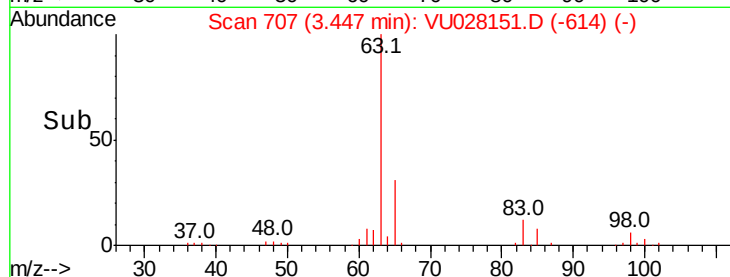
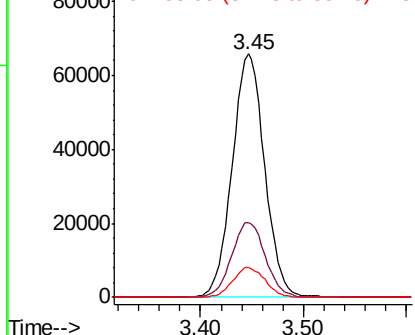
#19
 1,1-Dichloroethane
 Concen: 7.221 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FL1MS

Tot Ion: 63 Resp: 144314
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.2 41.2
 83 12.3 8.9 16.5

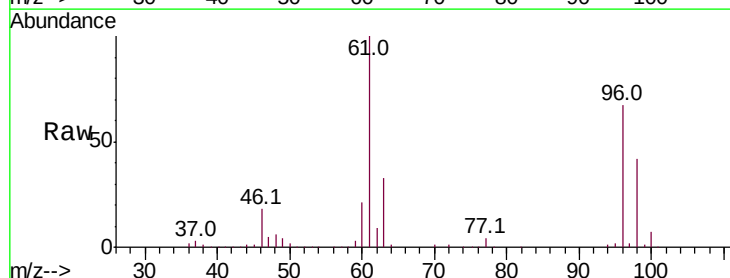


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

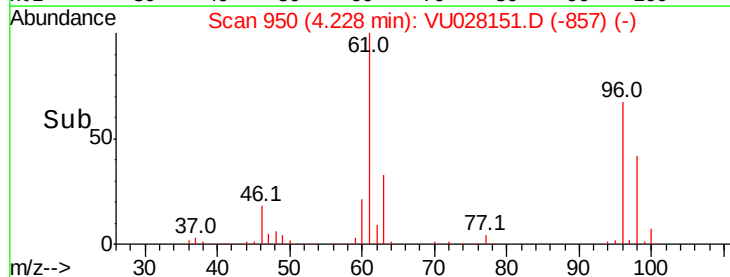
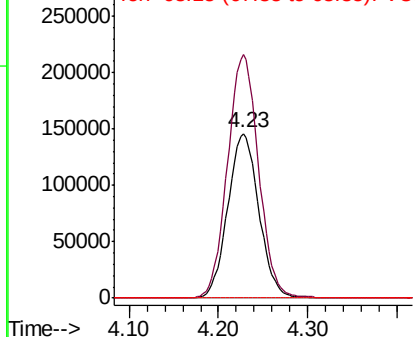


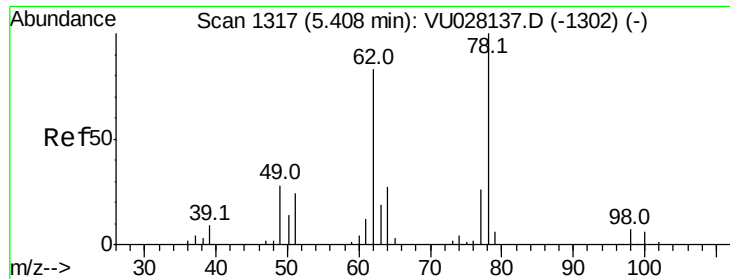
#22
 cis-1,2-Dichloroethene
 Concen: 33.607 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

Tgt Ion: 96 Resp: 352097
 Ion Ratio Lower Upper
 96 100
 61 148.2 101.8 189.0
 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

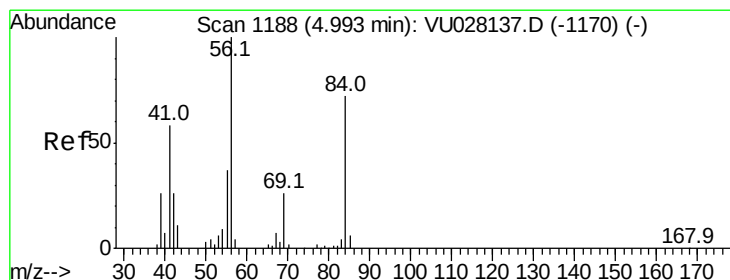
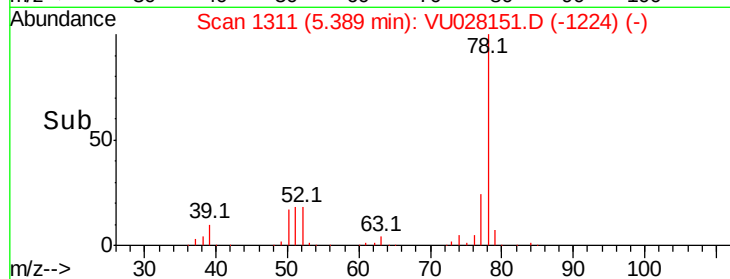
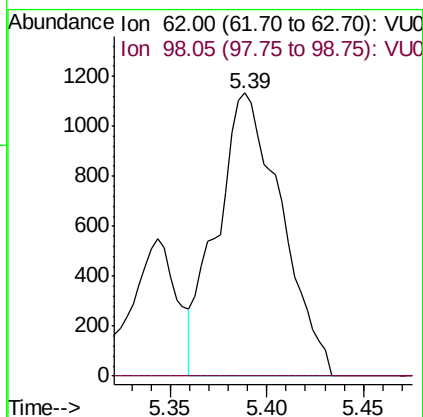
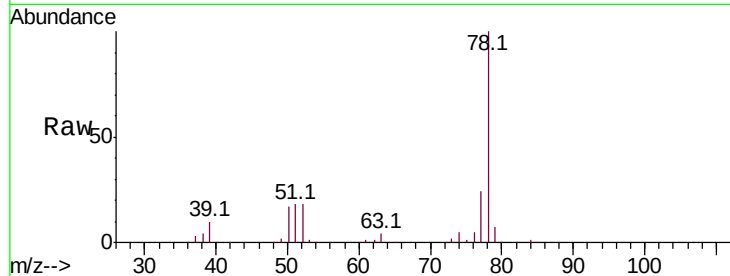




#27
 1,2-Dichloroethane
 Concen: 0.222 ug/L
 RT: 5.39 min Scan# 1311
 Delta R.T. -0.02 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

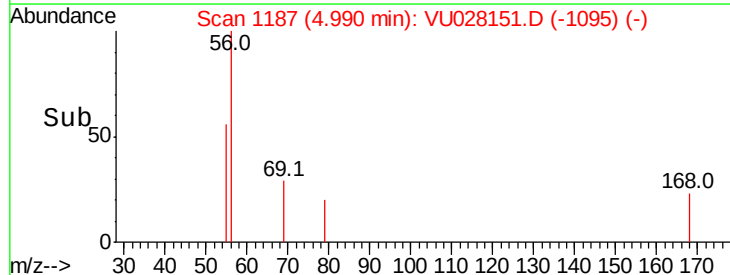
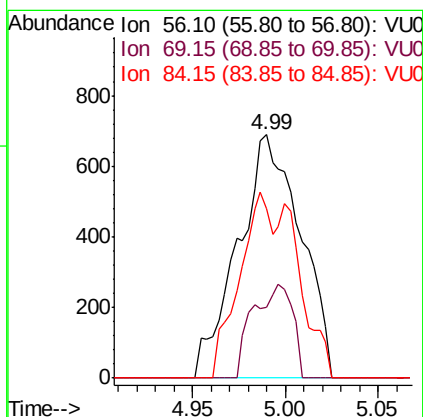
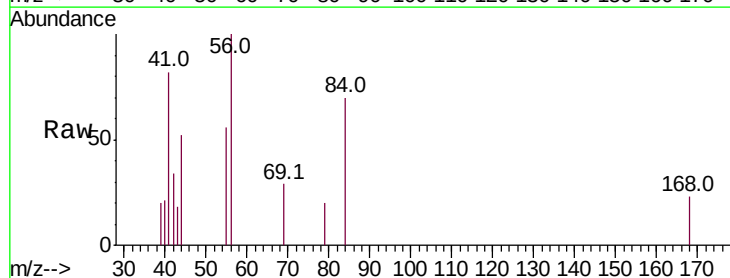
Instrument :
 MSVOA_U
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 H0FL1MS

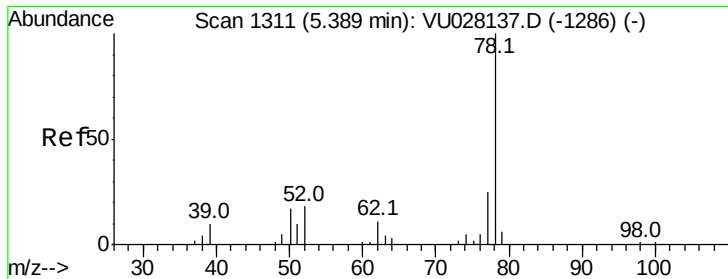
Tot Ion: 62 Resp: 2617
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.0 10.4#



#30
 Cyclohexane
 Concen: 0.080 ug/L
 RT: 4.99 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

Tgt Ion: 56 Resp: 1616
 Ion Ratio Lower Upper
 56 100
 69 24.3 22.6 33.8
 84 39.6 57.7 86.5#





#33

Benzene

Concen: 5.562 ug/L

RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

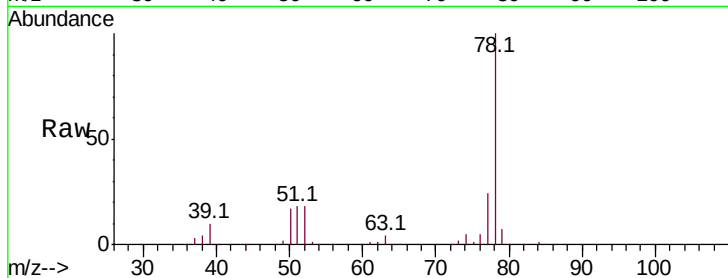
Instrument :

MSVOA_U

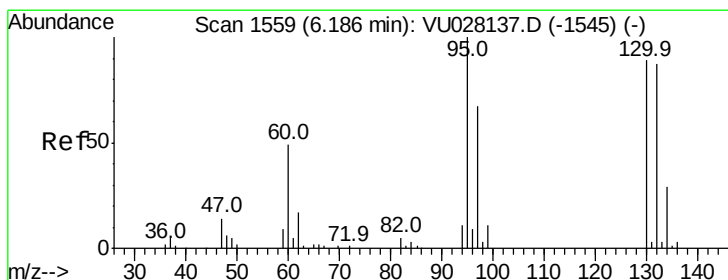
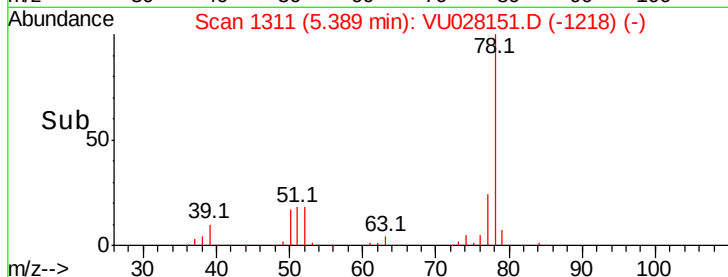
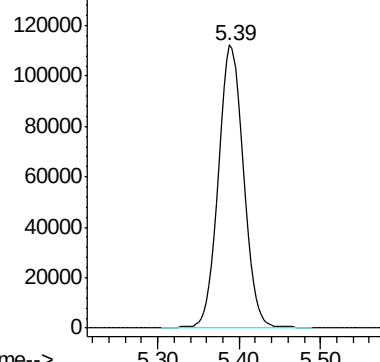
ClientSampleId :

H0FL1MS

Tgt Ion: 78 Resp: 237993



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 5.419 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

Tgt Ion: 95 Resp: 57313

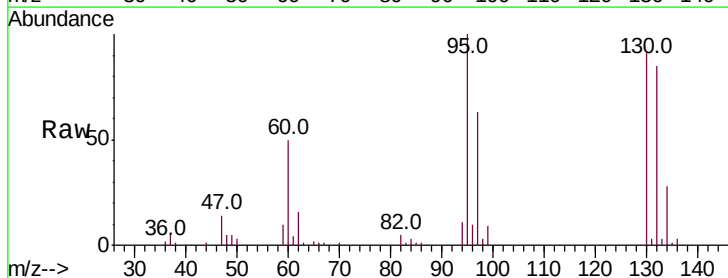
Ion	Ratio	Lower	Upper
95	100		
97	62.8	45.3	84.1
132	85.4	63.0	117.0
130	90.9	63.6	118.2

95 100

97 62.8 45.3 84.1

132 85.4 63.0 117.0

130 90.9 63.6 118.2

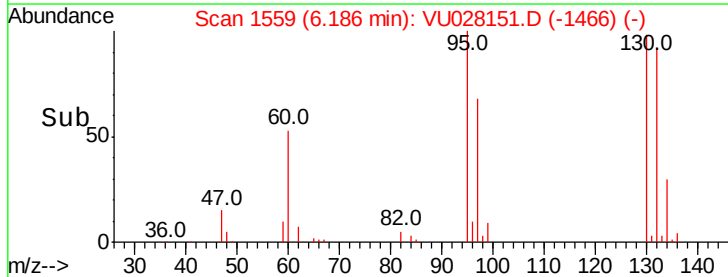
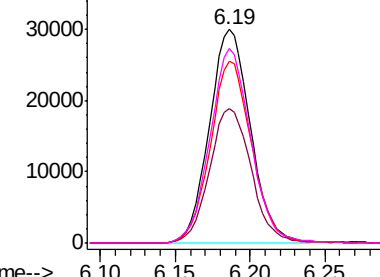


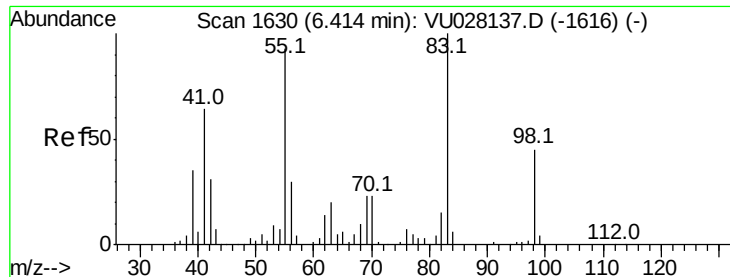
Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.731 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MS

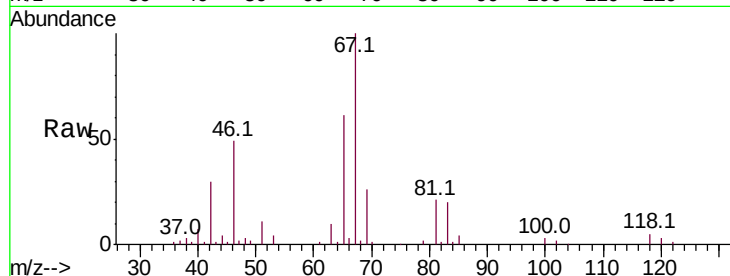
Tot Ion: 83 Resp: 13284

Ion Ratio Lower Upper

83 100

55 0.4 69.0 103.4#

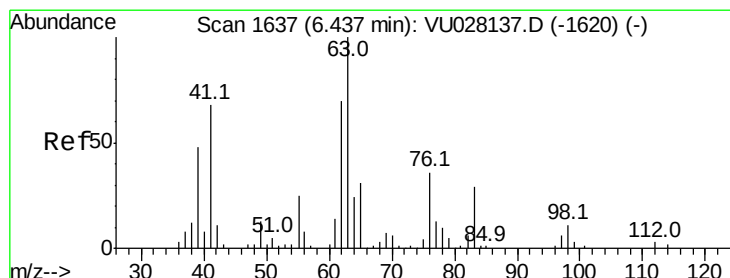
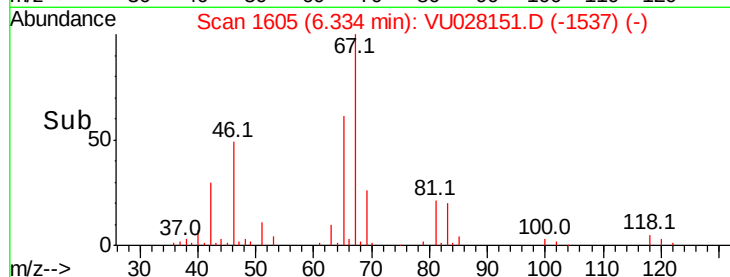
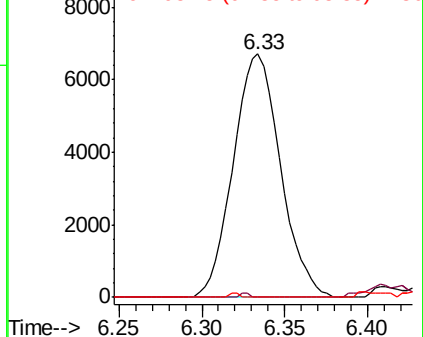
98 0.0 33.3 49.9#



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: 0.065 ug/L

RT: 6.44 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VU028151.D

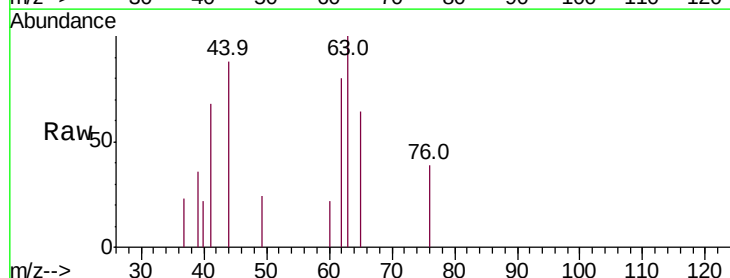
Acq: 15 Nov 2018 04:05

Tgt Ion: 63 Resp: 766

Ion Ratio Lower Upper

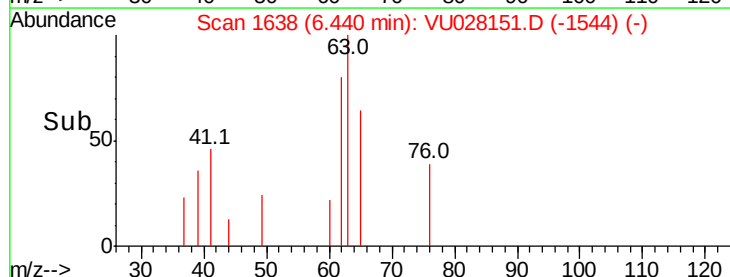
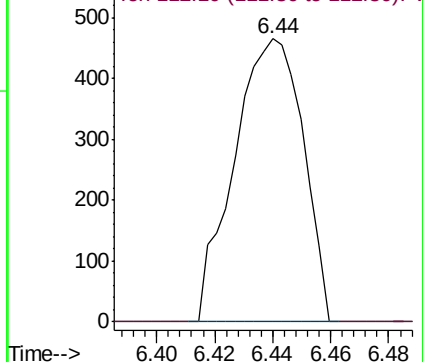
63 100

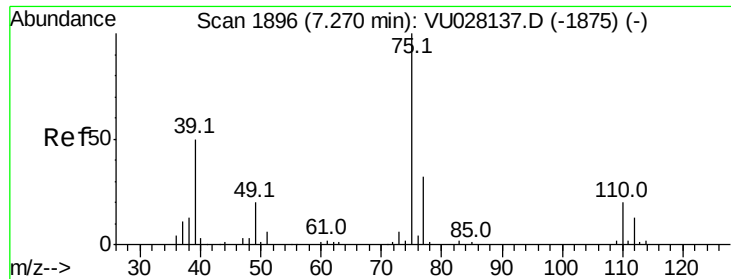
112 0.0 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

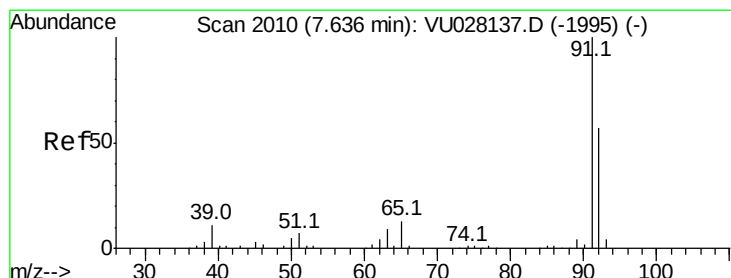
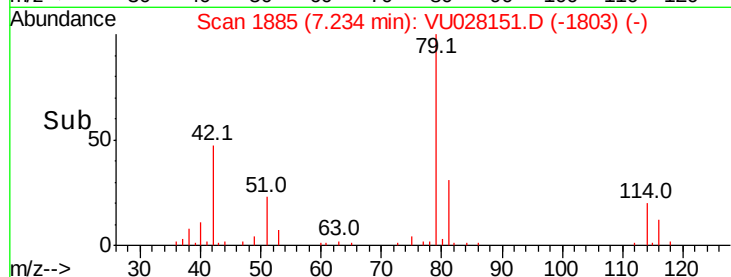
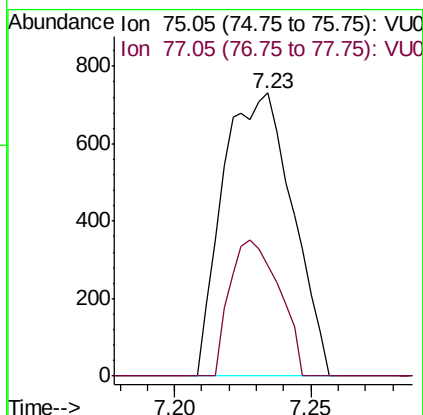
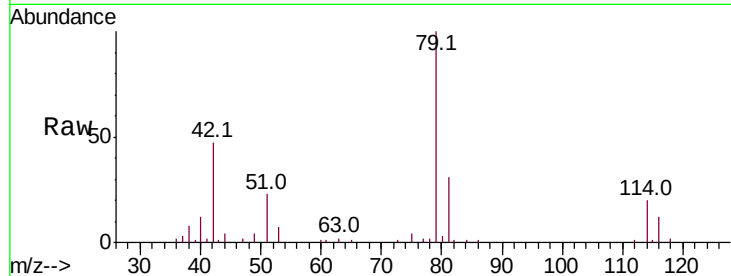




#39
 cis-1,3-Dichloropropene
 Concen: 0.081 ug/L
 RT: 7.23 min Scan# 1885
 Delta R.T. -0.04 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

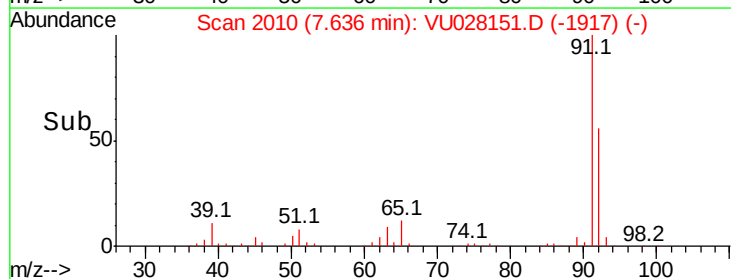
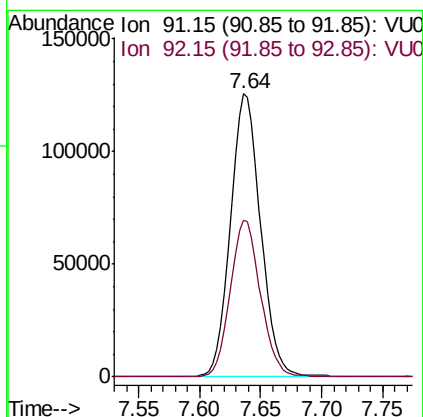
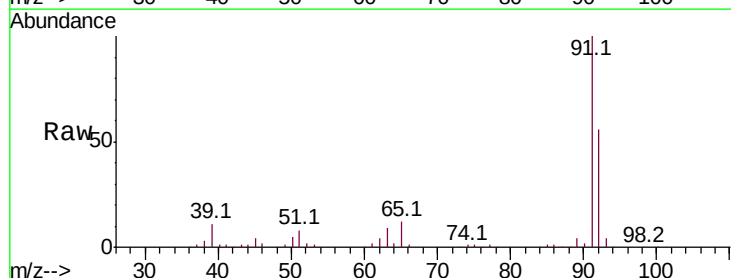
Instrument :
 MSVOA_U
 ClientSampleId :
 H0FL1MS

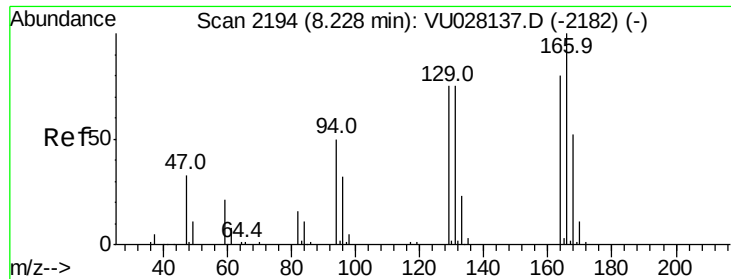
Tot Ion: 75 Resp: 1297
 Ion Ratio Lower Upper
 75 100
 77 38.9 20.9 38.9



#42
 Toluene
 Concen: 4.915 ug/L
 RT: 7.64 min Scan# 2010
 Delta R.T. -0.00 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

Tgt Ion: 91 Resp: 216850
 Ion Ratio Lower Upper
 91 100
 92 55.5 40.7 75.7

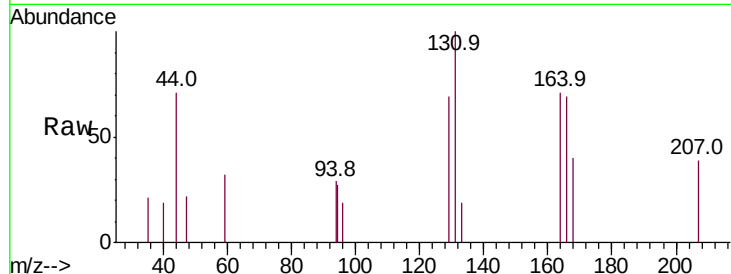




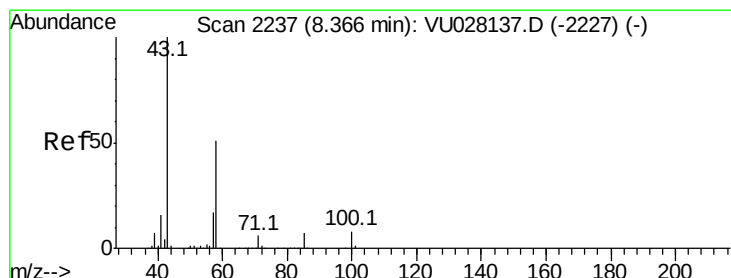
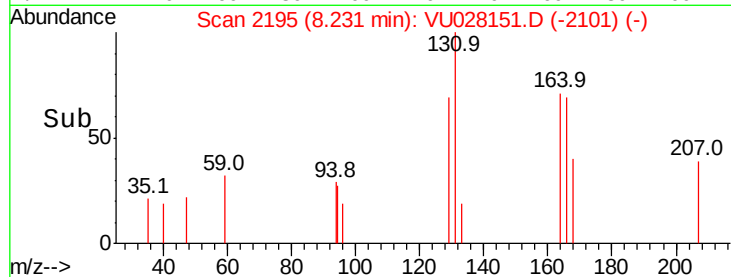
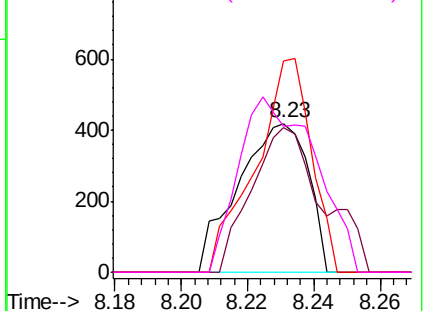
#47
Tetrachloroethene
Concen: 0.071 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

Instrument :
MSVOA_U
ClientSampleId :
H0FL1MS

Tot Ion:164 Resp: 614
Ion Ratio Lower Upper
164 100
129 97.6 69.7 129.4
131 141.8 64.0 118.8#
166 97.9 86.4 160.4

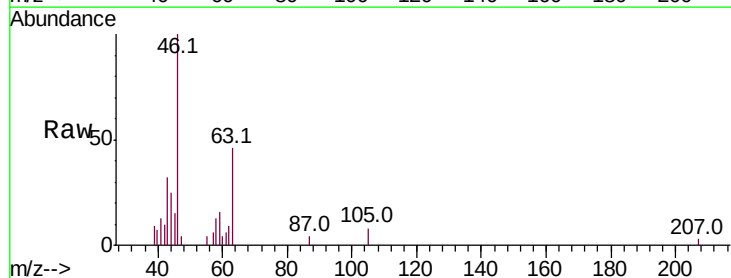


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

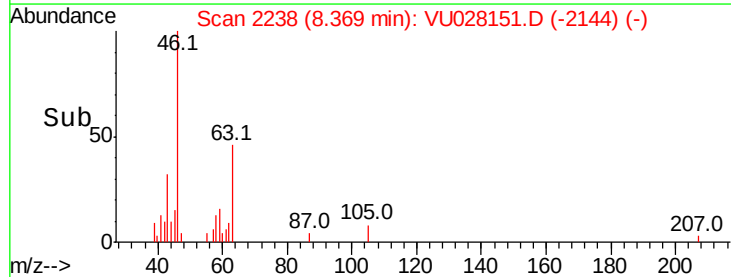
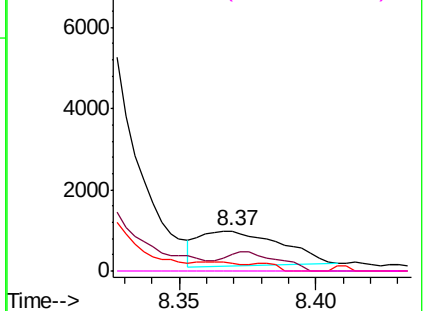


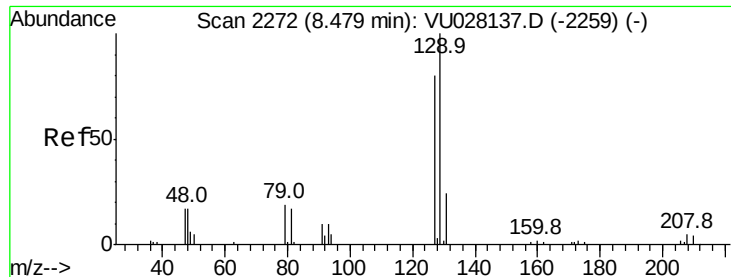
#48
2-Hexanone
Concen: 0.305 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

Tgt Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
58 38.7 41.7 62.5#
57 7.7 14.0 21.0#
100 0.0 7.2 10.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

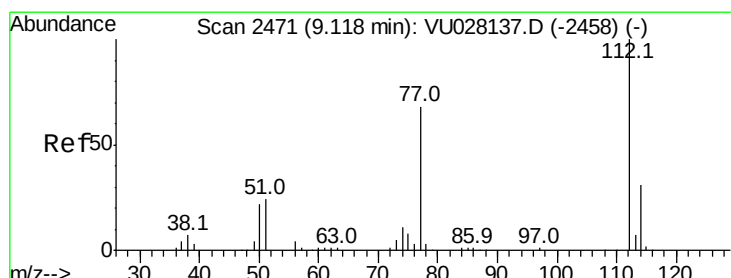
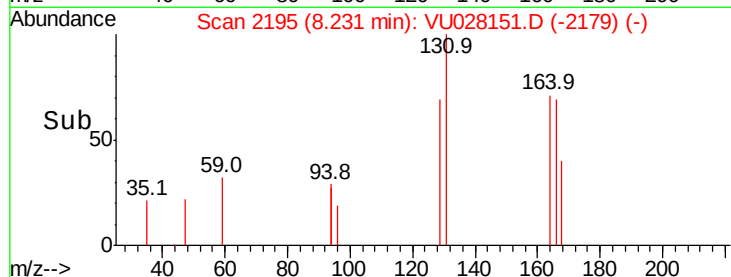
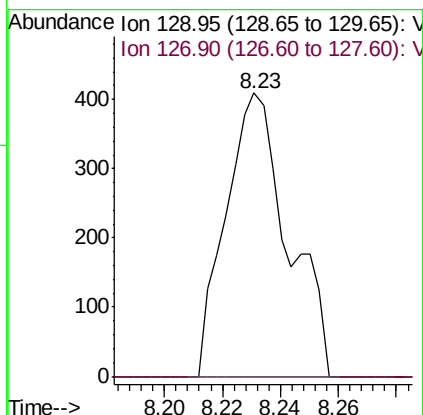
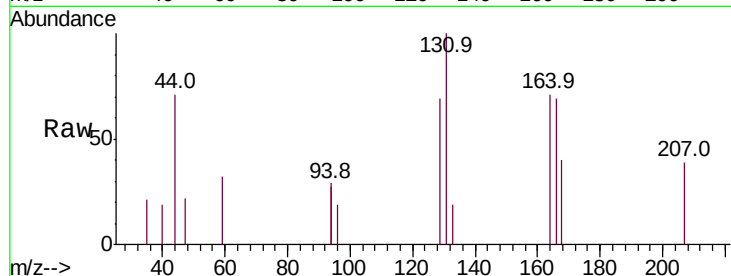




#49
Dibromochloromethane
Concen: 0.080 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

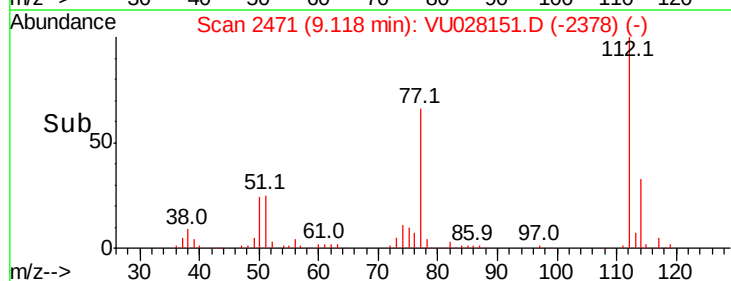
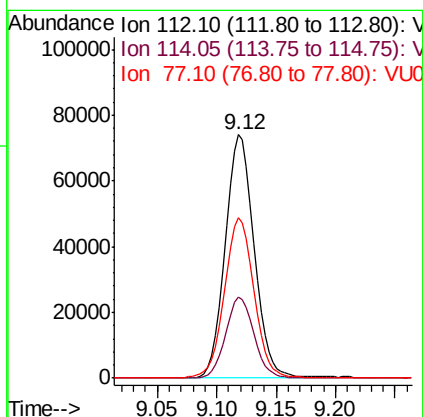
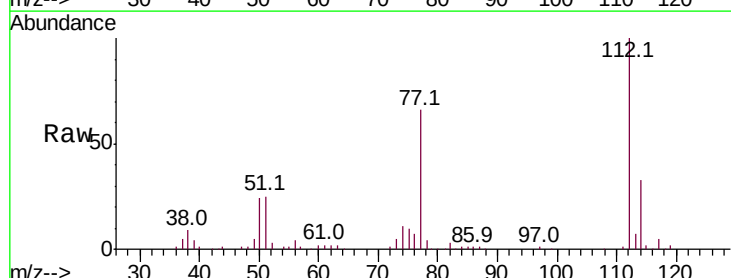
Instrument :
MSVOA_U
ClientSampleId :
H0FL1MS

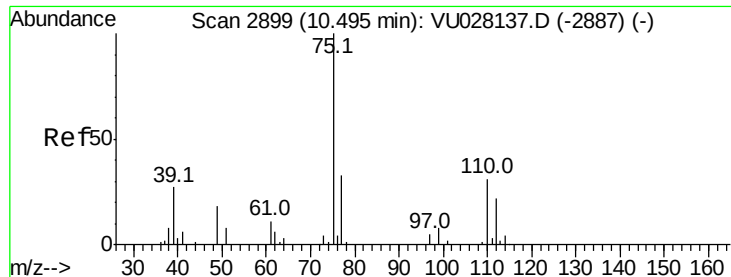
Tot Ion:129 Resp: 608
Ion Ratio Lower Upper
129 100
127 0.0 54.1 100.5#



#51
Chlorobenzene
Concen: 4.848 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

Tgt Ion:112 Resp: 125085
Ion Ratio Lower Upper
112 100
114 33.3 22.5 41.7
77 65.6 51.3 76.9





#59

1,2,3-Trichloropropane

Concen: 1.357 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028151.D

Acq: 15 Nov 2018 04:05

Instrument :

MSVOA_U

ClientSampleId :

H0FL1MS

Tot Ion: 75 Resp: 9021

Ion Ratio Lower Upper

75 100

77 36.4 25.4 38.0

