

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 :

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

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 :

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

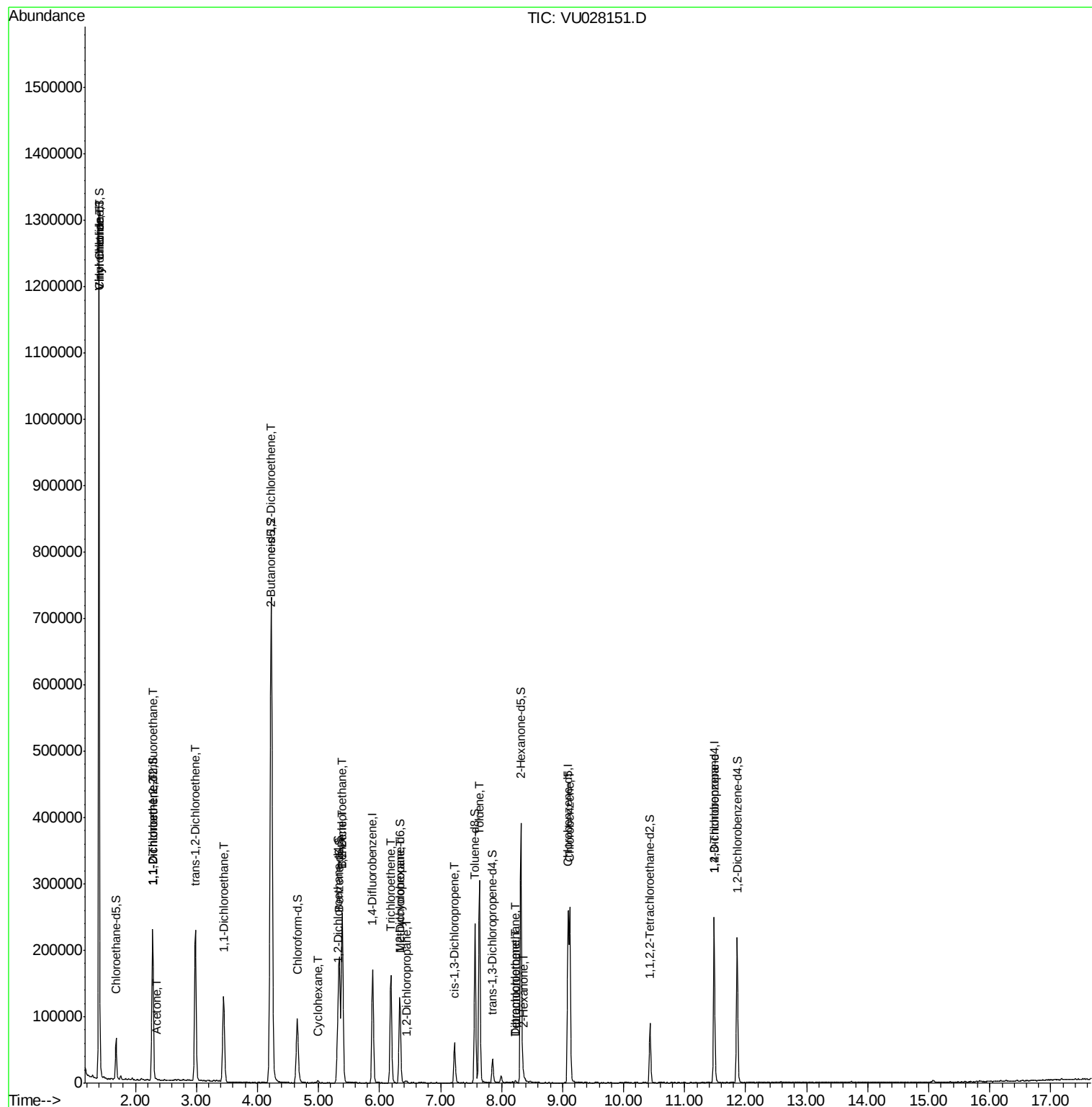
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.37	43	1768	0.305	ug/L #	80
49) Dibromochloromethane	8.23	129	608	0.080	ug/L #	11
51) Chlorobenzene	9.12	112	125085	4.848	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	9021	1.357	ug/L	92

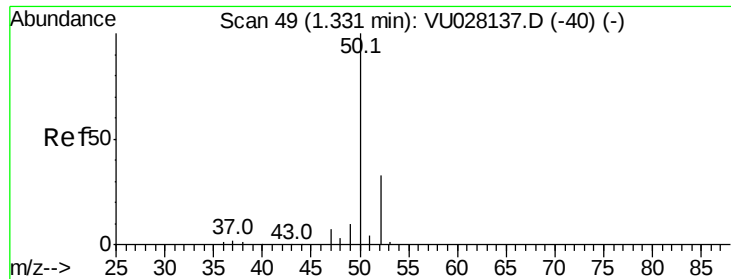
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 :

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





#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

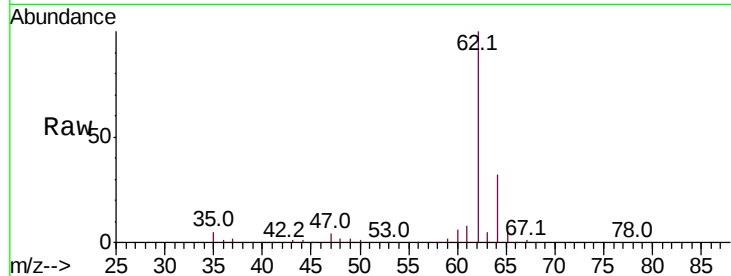
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 5407

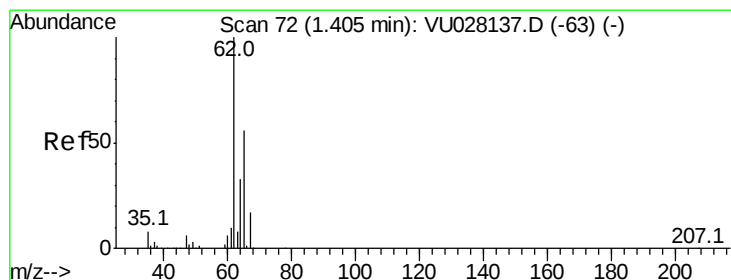
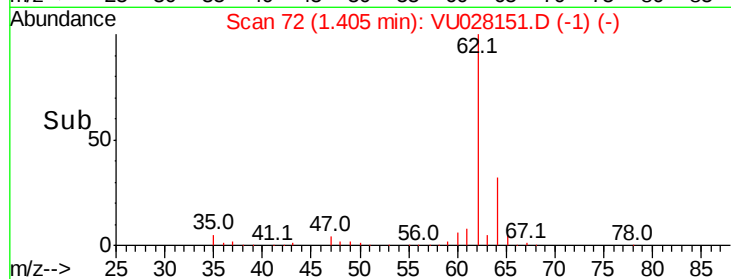
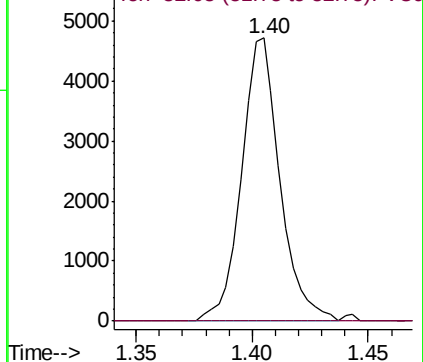
Ion Ratio Lower Upper

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

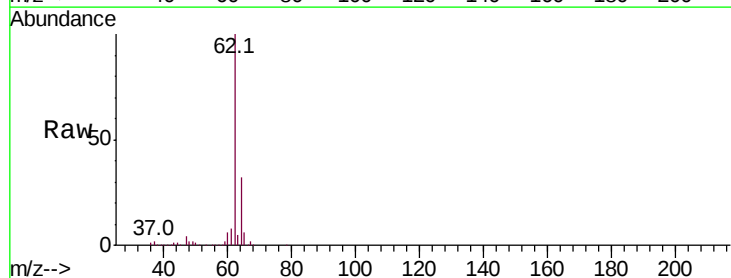
Acq: 15 Nov 2018 04:05

Tgt Ion: 62 Resp: 812313

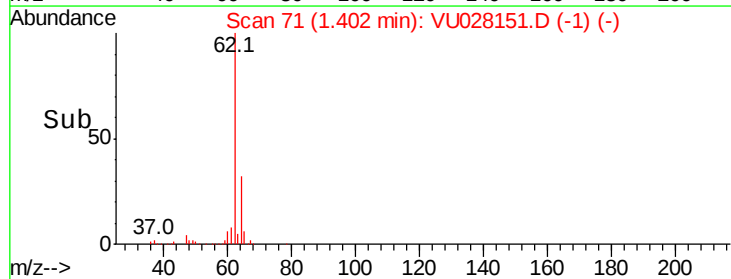
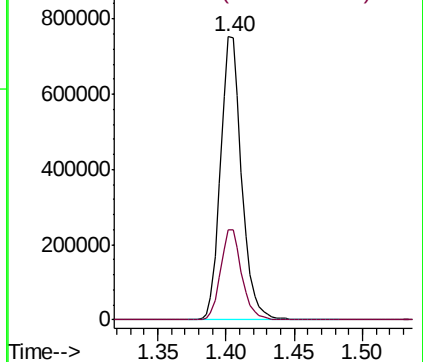
Ion Ratio Lower Upper

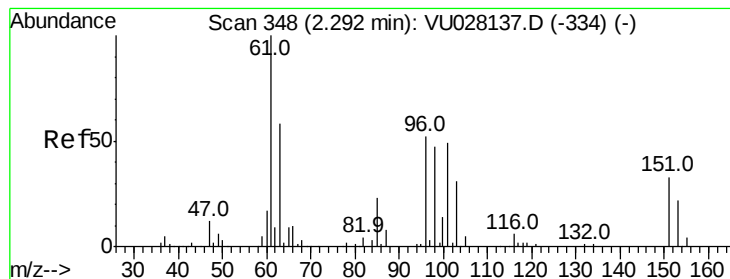
62 100

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 :

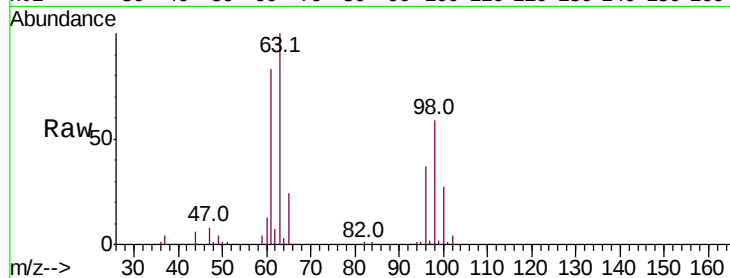
Tot Ion:101 Resp: 771

Ion Ratio Lower Upper

101 100

85 2.6 37.6 56.4#

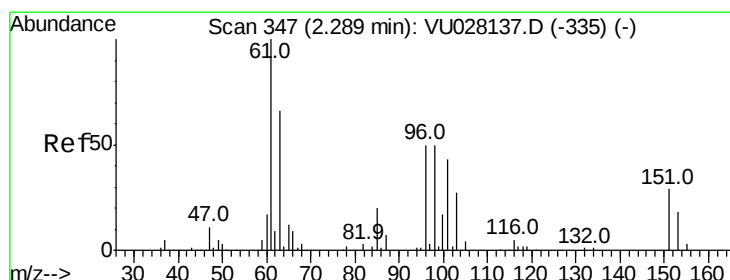
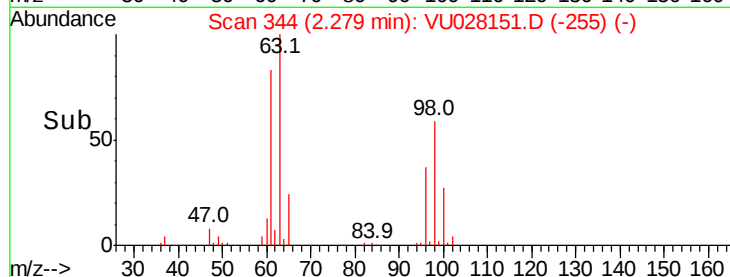
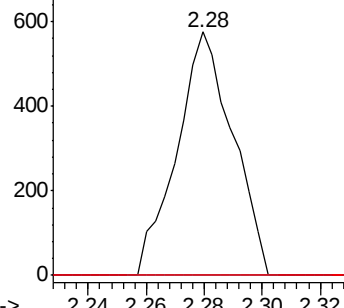
151 0.0 58.2 87.2#



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

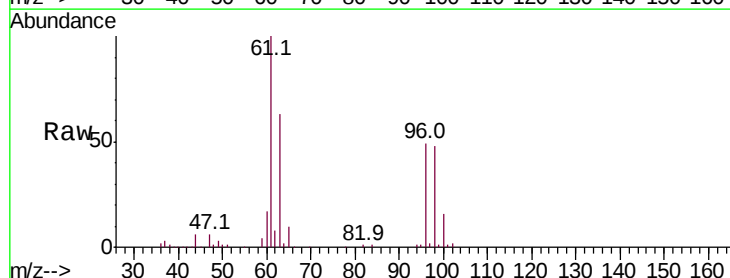
Tgt Ion: 96 Resp: 44353

Ion Ratio Lower Upper

96 100

61 202.6 134.8 250.3

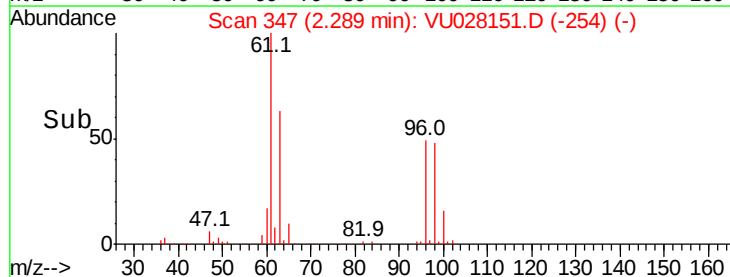
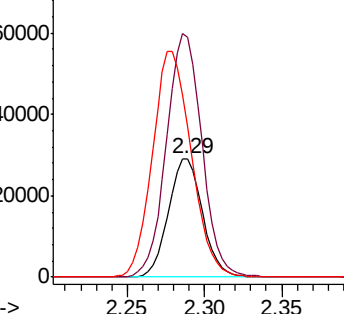
63 126.9 100.1 185.9

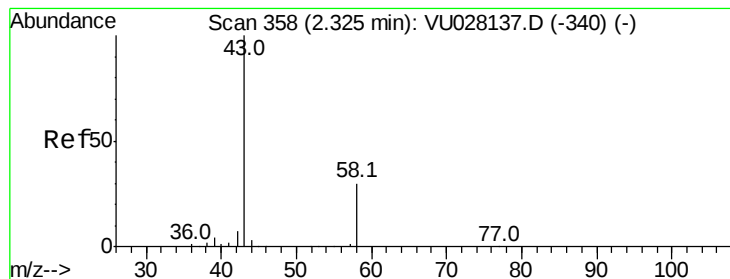


Abundance Ion 96.00 (95.70 to 96.70): VU0

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

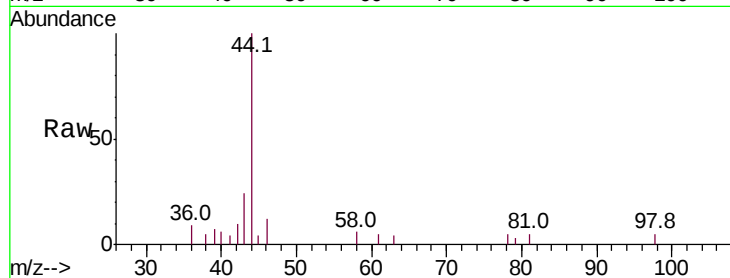
Instrument :
MSVOA_U
ClientSampled :

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): VU028137.D (-340) (-)

Ion 58.05 (57.75 to 58.75): VU028137.D (-340) (-)

Time-->

2.25 2.30 2.35 2.40

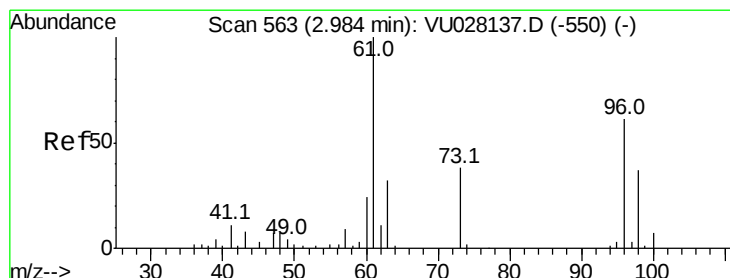
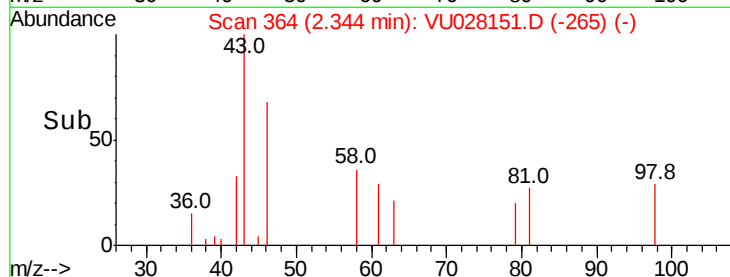
2.34

200

400

600

800



#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

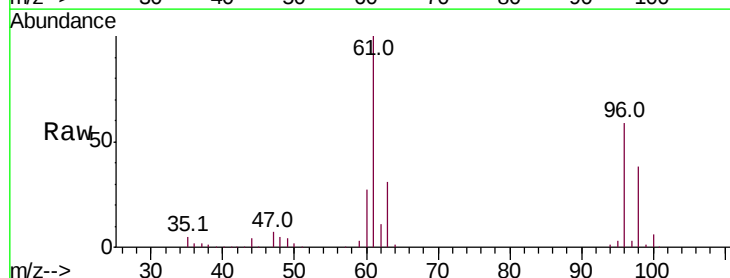
Tgt Ion: 96 Resp: 76893

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): VU028137.D (-550) (-)

Ion 61.05 (60.75 to 61.75): VU028137.D (-550) (-)

Ion 97.95 (97.65 to 98.65): VU028137.D (-550) (-)

Time-->

2.90 2.95 3.00 3.05

2.98

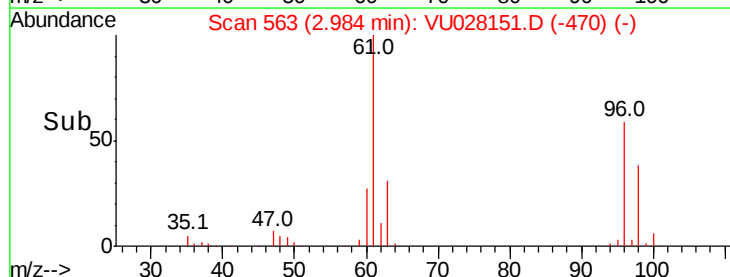
20000

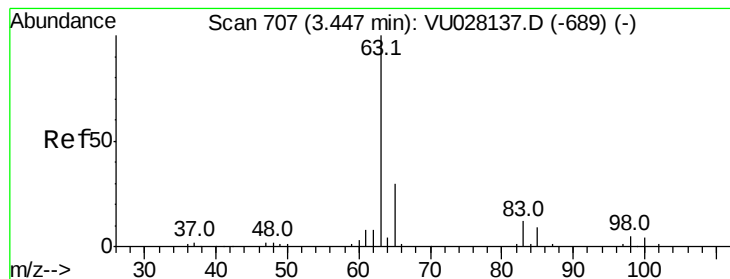
40000

60000

80000

100000





#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 :

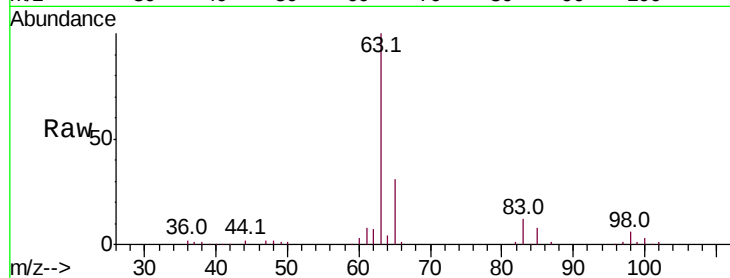
Tot Ion: 63 Resp: 144314

Ion Ratio Lower Upper

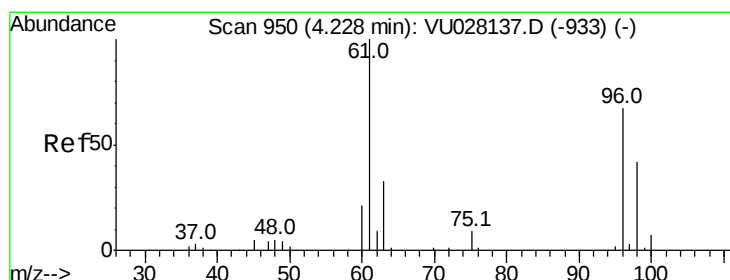
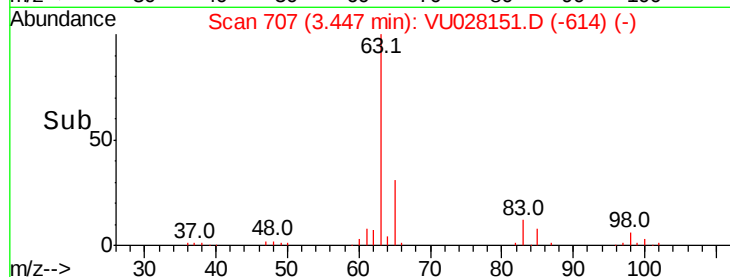
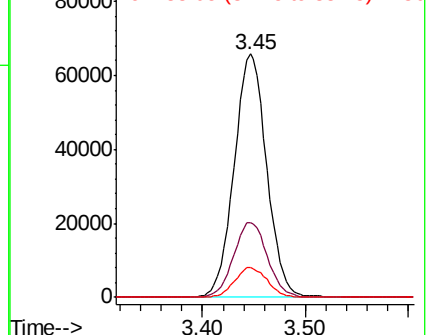
63 100

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

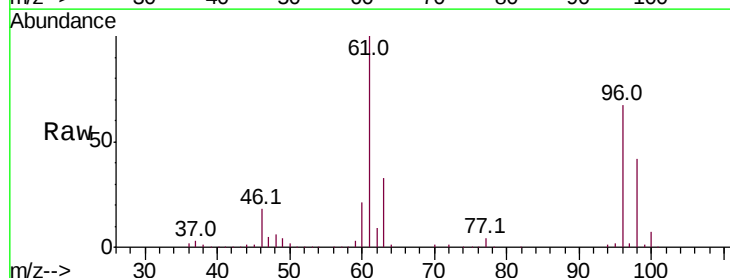
Tgt Ion: 96 Resp: 352097

Ion Ratio Lower Upper

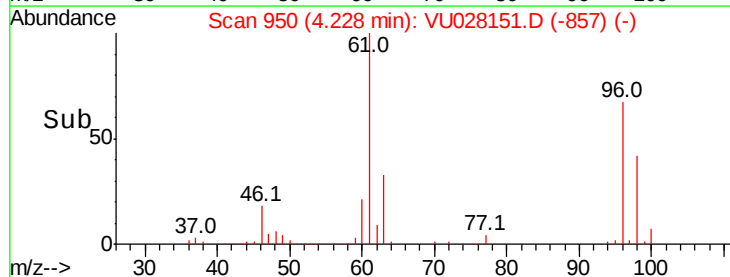
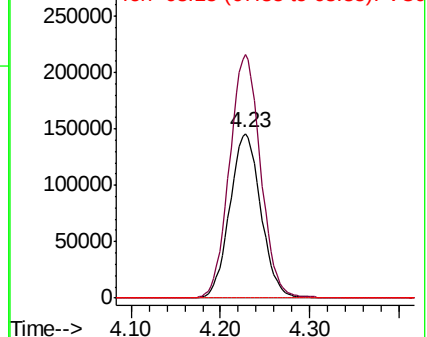
96 100

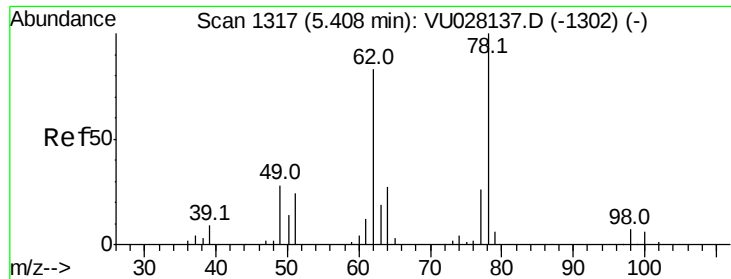
61 148.2 101.8 189.0

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

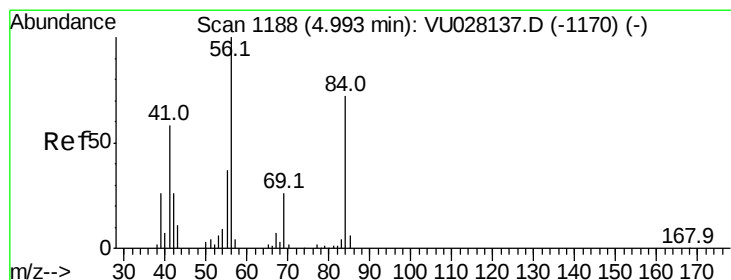
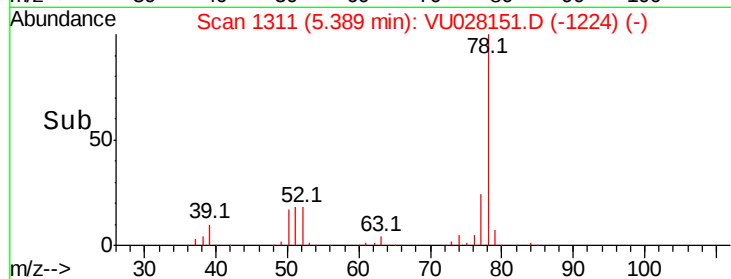
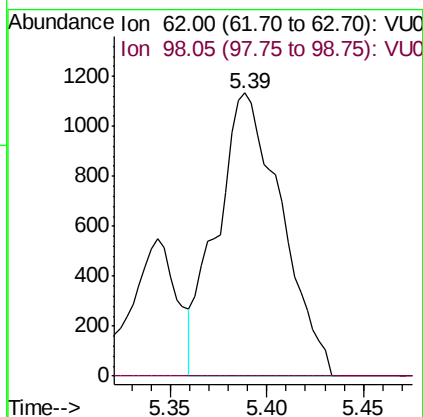
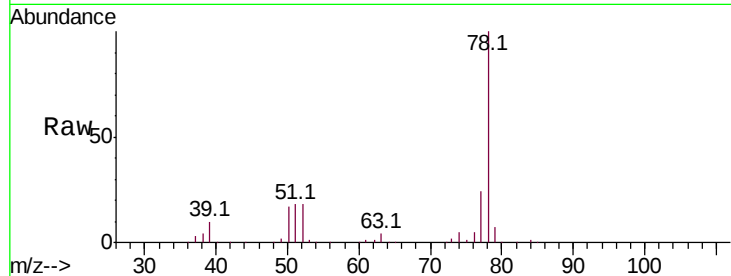




#27
 1,2-Dichloroethane
 Concen: 0.222 ug/L
 RT: 5.39 min Scan# 1311
 Delta R.T. -0.02 min
 Lab File: VU028151.D
 Acq: 15 Nov 2018 04:05

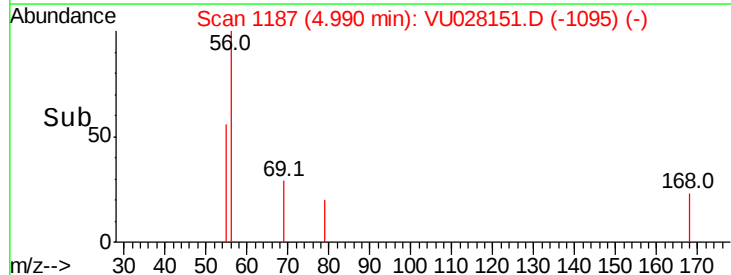
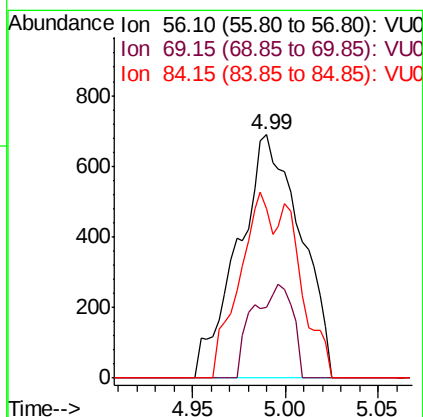
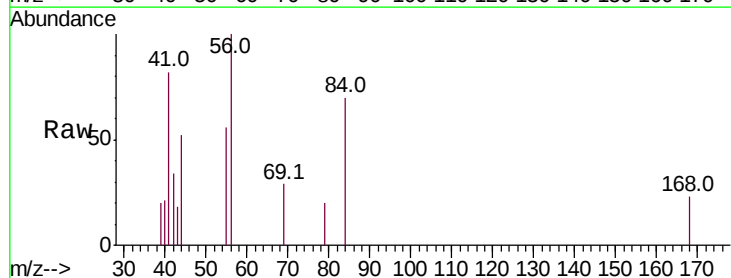
Instrument :
 MSVOA_U
 ClientSampled :

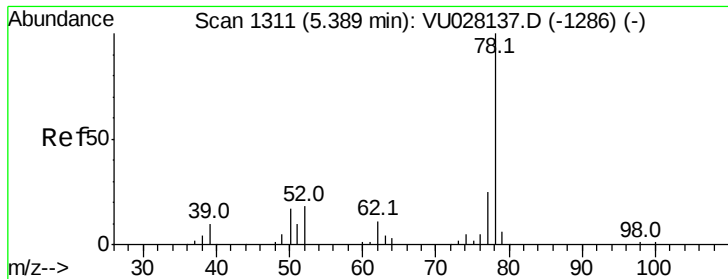
Tot Ion: 62 Resp: 2617
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.0 10.4#



#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#

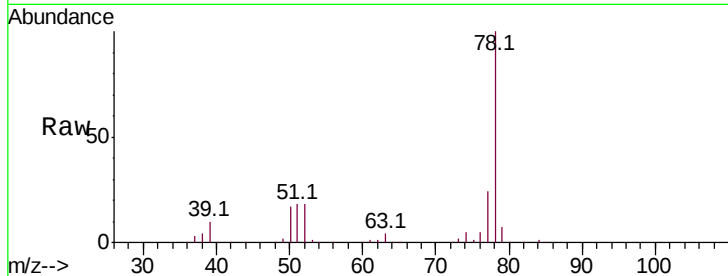




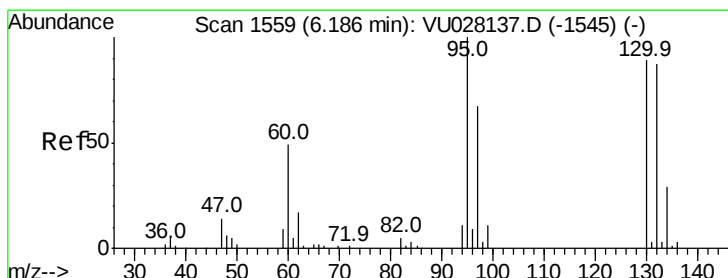
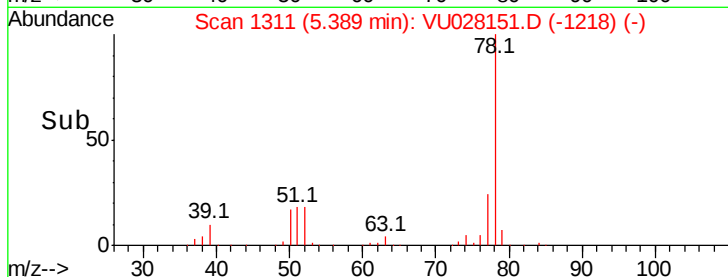
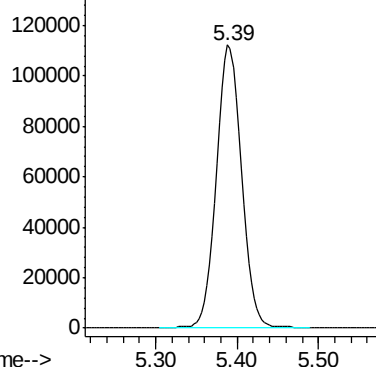
#33
Benzene
Concen: 5.562 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 237993



Abundance Ion 78.10 (77.80 to 78.80): VU0



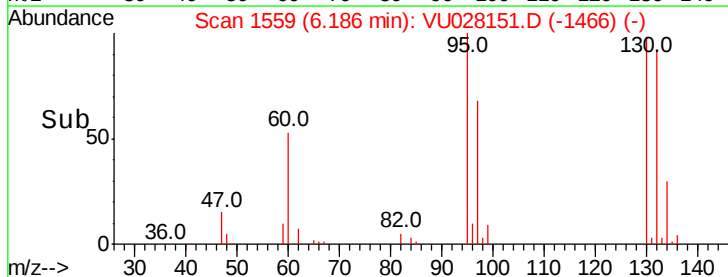
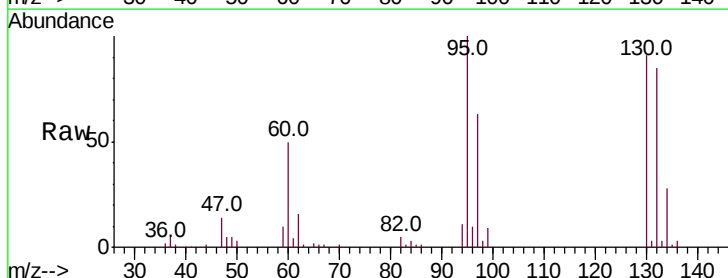
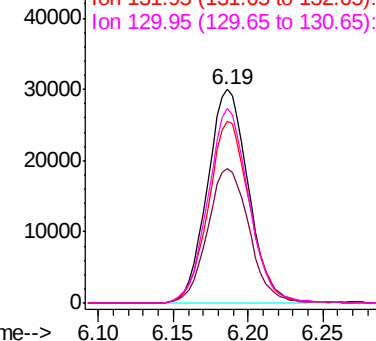
#34
Trichloroethene
Concen: 5.419 ug/L
RT: 6.19 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

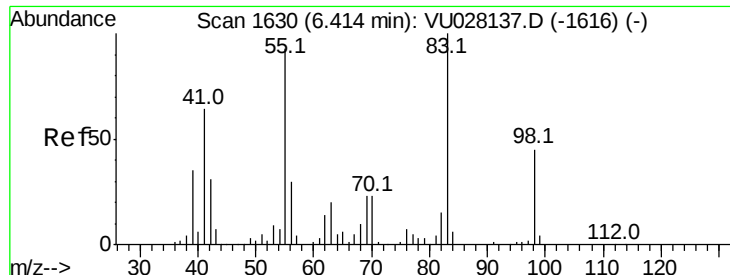
Tgt Ion: 95 Resp: 57313

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

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

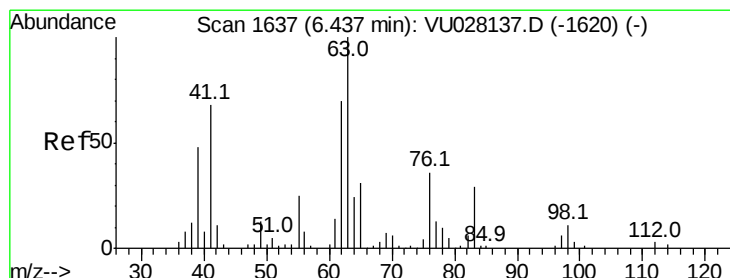
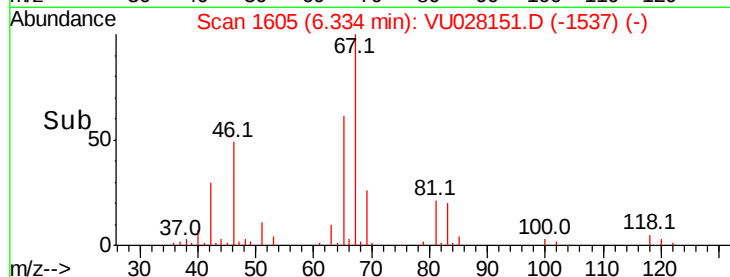
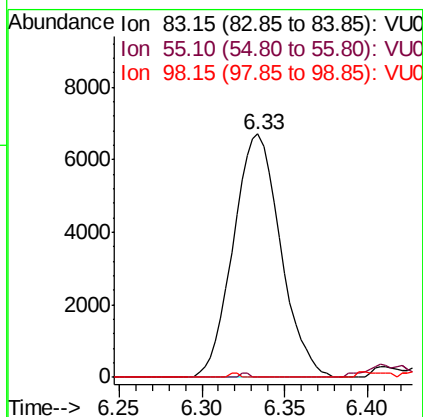
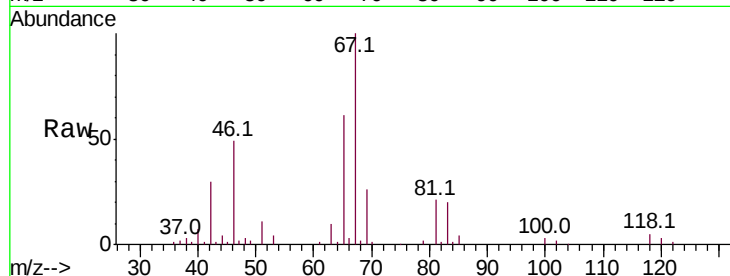




#35
Methvlcvclohexane
Concen: 0.731 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

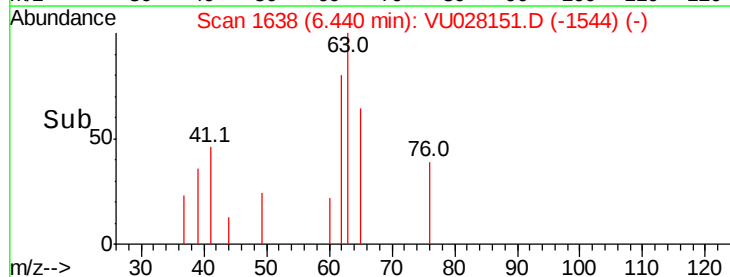
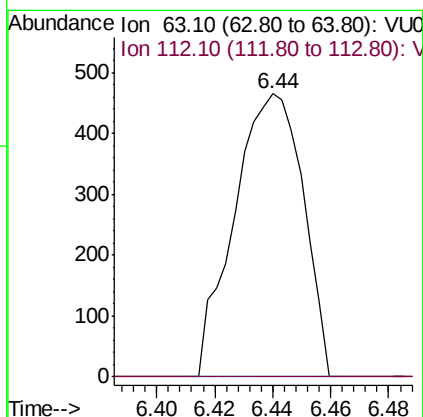
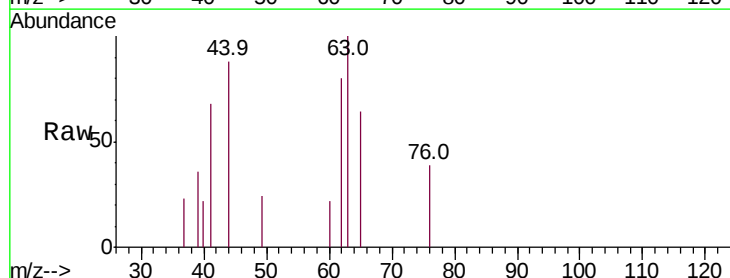
Instrument :
MSVOA_U
ClientSampleId :

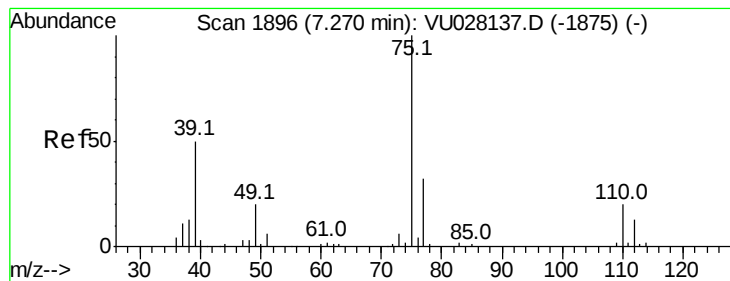
Tot Ion: 83 Resp: 13284
Ion Ratio Lower Upper
83 100
55 0.4 69.0 103.4#
98 0.0 33.3 49.9#



#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#



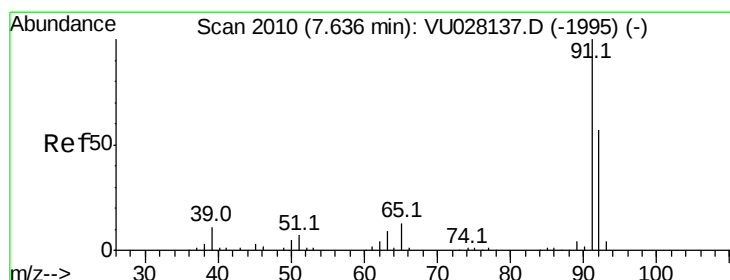
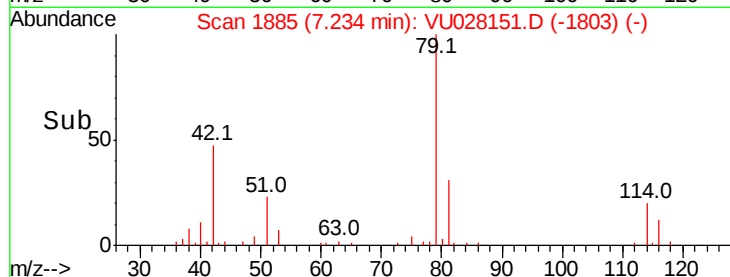
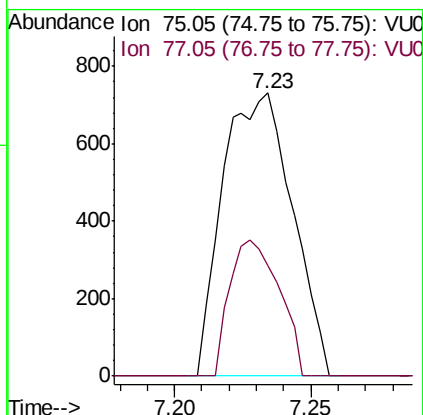
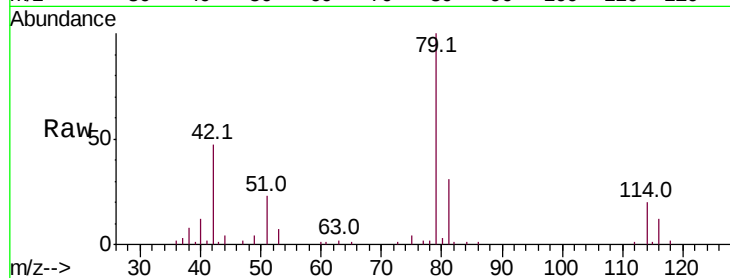


#39

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
ClientSampled :

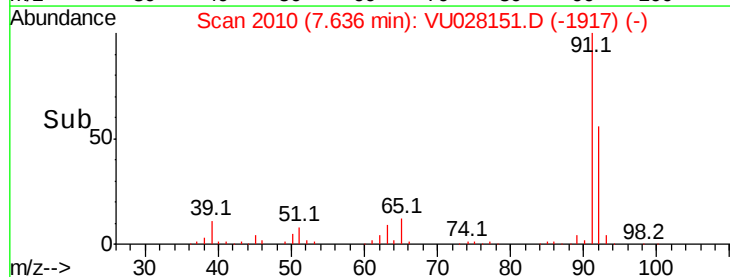
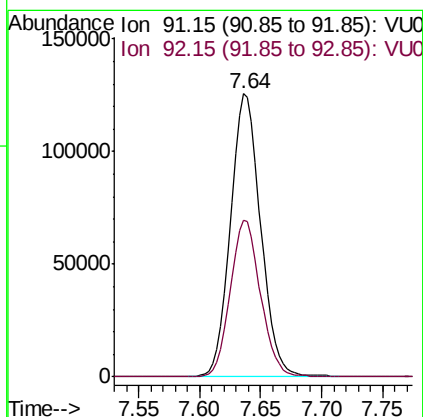
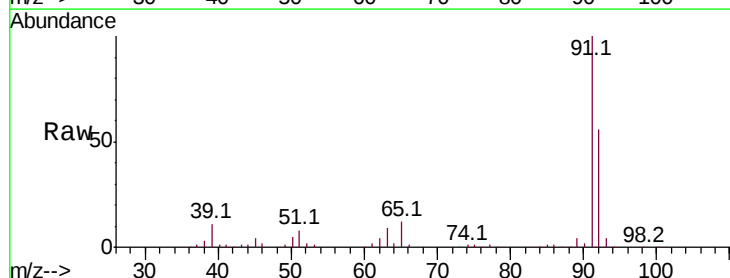
Tot Ion: 75 Resp: 1297
Ion Ratio Lower Upper
75 100
77 38.9 20.9 38.9

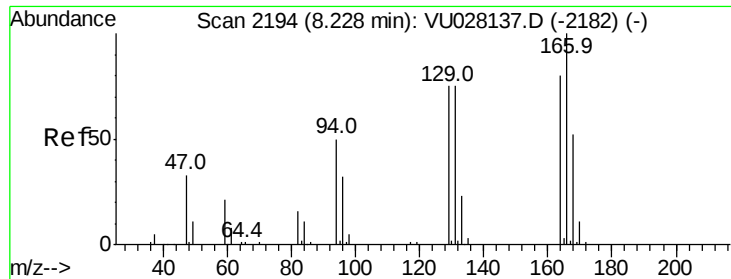


#42

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

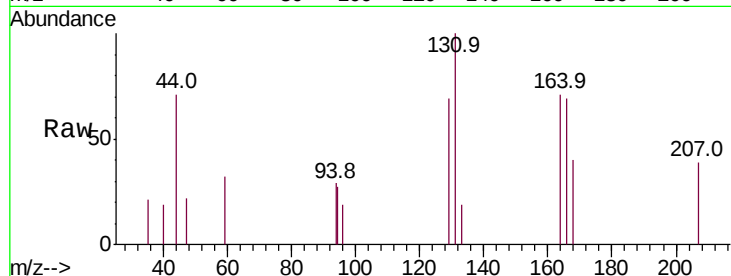




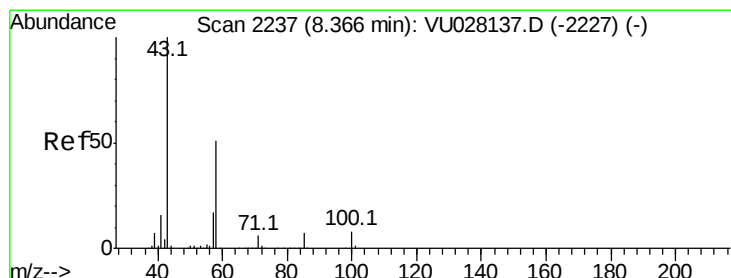
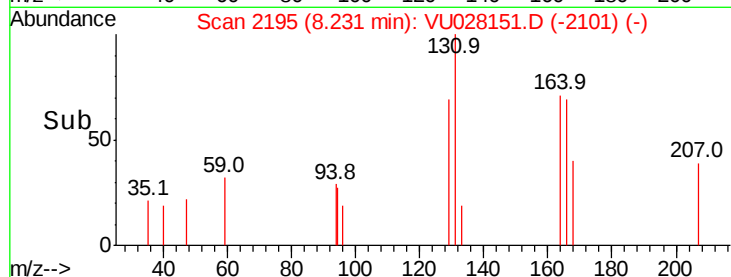
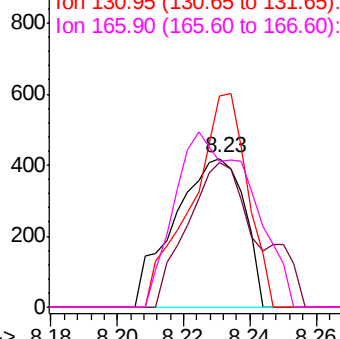
#47
Tetrachloroethene
Concen: 0.071 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

Instrument :
MSVOA_U
ClientSampled :

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

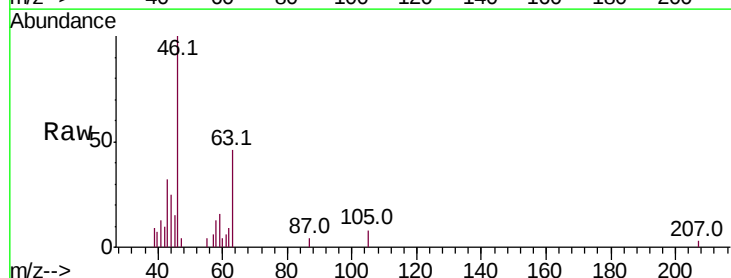


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

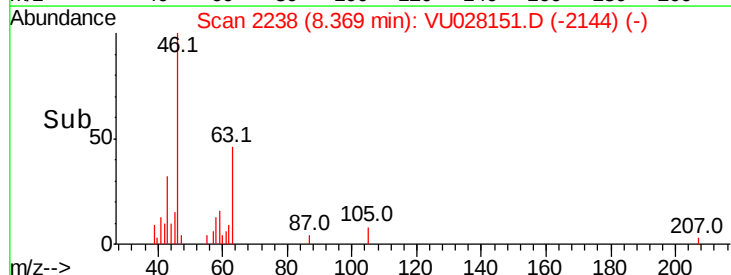
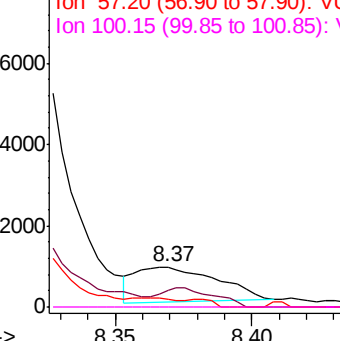


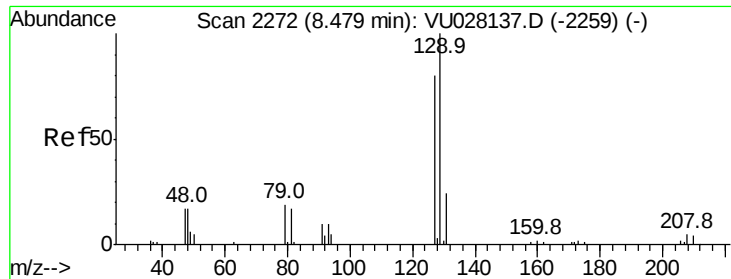
#48
2-Hexanone
Concen: 0.305 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

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

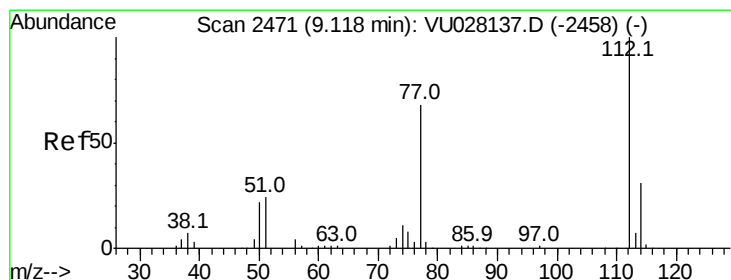
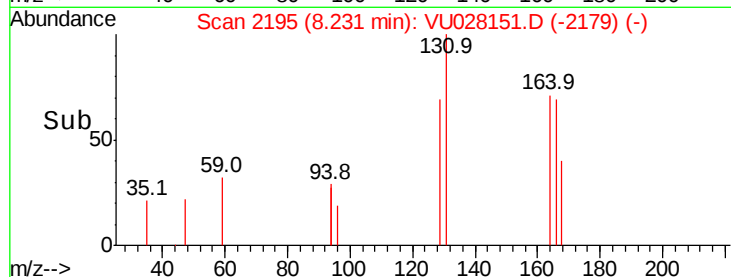
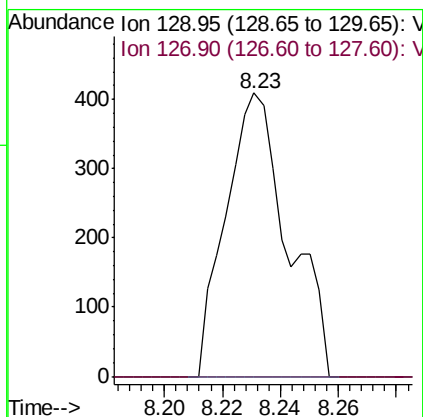
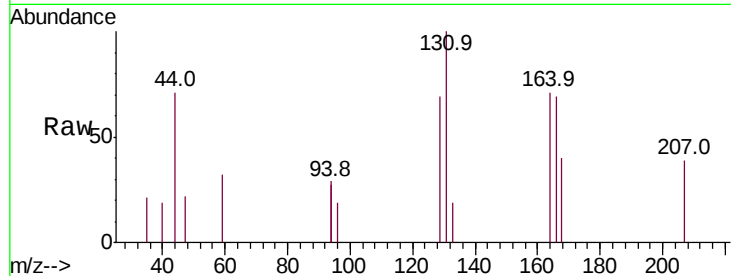




#49
Dibromochloromethane
Concen: 0.080 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VU028151.D
Acq: 15 Nov 2018 04:05

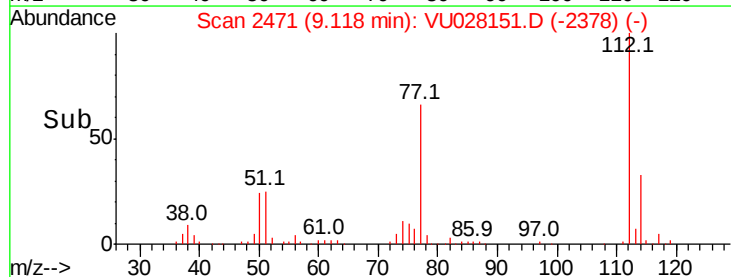
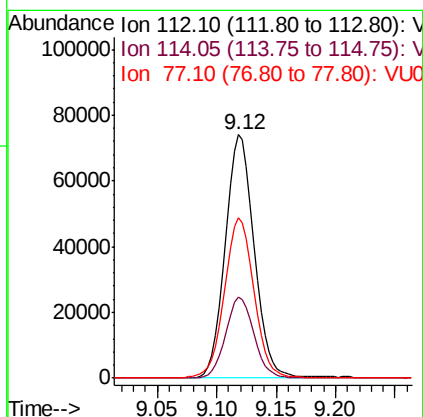
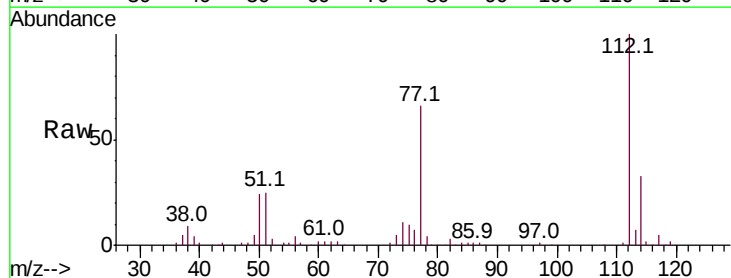
Instrument :
MSVOA_U
ClientSampleId :

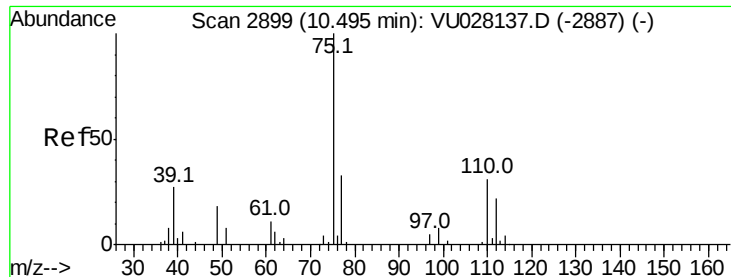
Tot Ion:129 Resp: 608
Ion Ratio Lower Upper
129 100
127 0.0 54.1 100.5#



#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 :

Tot Ion: 75 Resp: 9021

Ion Ratio Lower Upper

75 100

77 36.4 25.4 38.0

