

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028143.D
 Acq On : 15 Nov 2018 00:55
 Operator : MD/SY
 Sample : J5943-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 06:18:15 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	133454	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	125505	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	58679	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	49947	4.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.20%
7) Chloroethane-d5	1.68	69	40507	4.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.00%
11) 1,1-Dichloroethene-d2	2.28	63	70670	3.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.40%
20) 2-Butanone-d5	4.20	46	177212	55.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.34%
24) Chloroform-d	4.65	84	85910	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.31	65	49244	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
32) Benzene-d6	5.34	84	176788	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.33	67	65302	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.57	98	156562	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
43) trans-1,3-Dichloropropene-	7.85	79	19750	4.30	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.00%
46) 2-Hexanone-d5	8.31	63	139279	53.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	47815	5.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	55323	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

				Ovalue
3) Chloromethane	1.39	50	2839	0.189 ug/L # 75
5) Vinyl chloride	1.40	62	100780	7.050 ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	399	0.046 ug/L # 31
12) 1,1-Dichloroethene	2.28	96	1274	0.144 ug/L # 1
13) Acetone	2.32	43	1800	0.832 ug/L 83
15) Methyl Acetate	2.64	43	968	0.167 ug/L # 58
18) trans-1,2-Dichloroethene	2.98	96	16728	1.773 ug/L 98
19) 1,1-Dichloroethane	3.45	63	2642	0.133 ug/L # 86
22) cis-1,2-Dichloroethene	4.23	96	58262	5.601 ug/L 98
33) Benzene	5.39	78	2235	0.053 ug/L 100
34) Trichloroethene	6.19	95	3106	0.297 ug/L 92
37) 1,2-Dichloropropane	6.33	63	6665	0.570 ug/L # 93
39) cis-1,3-Dichloropropene	7.22	75	1328	0.084 ug/L # 70
42) Toluene	7.64	91	2379	0.055 ug/L 97
45) 1,1,2-Trichloroethane	8.05	97	817	0.116 ug/L # 14
47) Tetrachloroethene	8.23	164	778	0.092 ug/L # 78
48) 2-Hexanone	8.31	43	16533	2.886 ug/L # 66

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

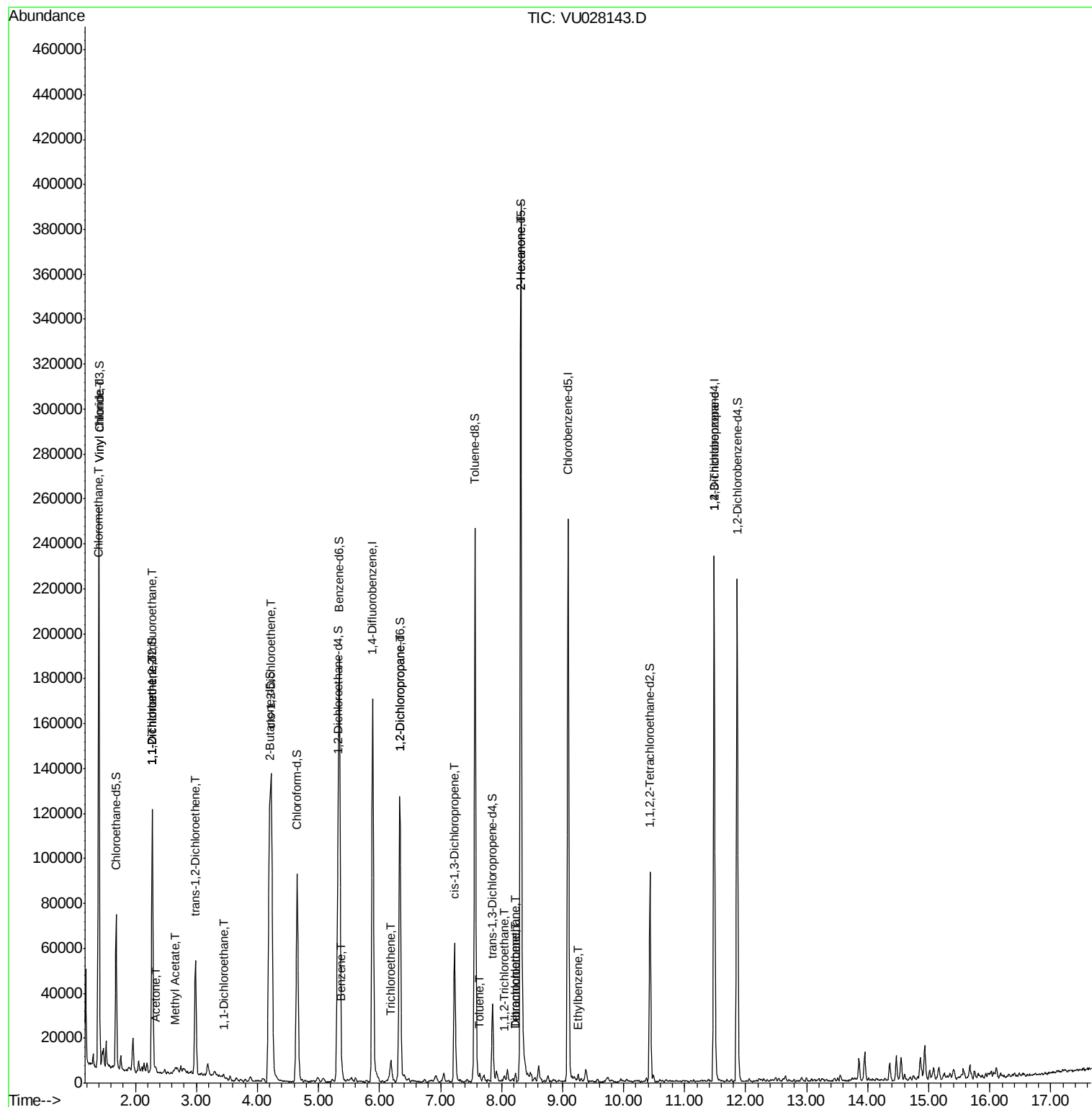
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.23	129	755	0.100	ug/L #	11
52) Ethylbenzene	9.26	91	1972	0.041	ug/L	99
59) 1,2,3-Trichloropropane	11.48	75	8624	1.313	ug/L	94

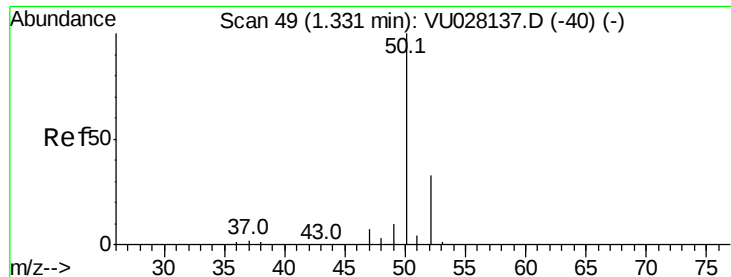
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.189 ug/L

RT: 1.39 min Scan# 67

Delta R.T. 0.06 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

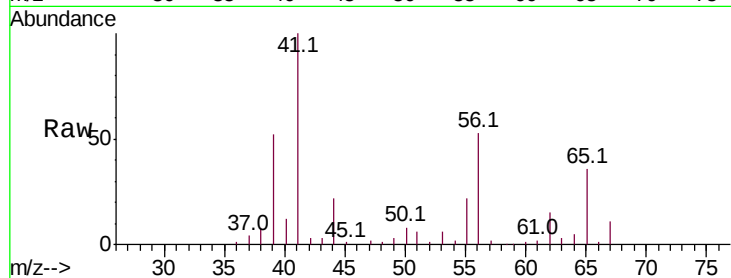
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 2839

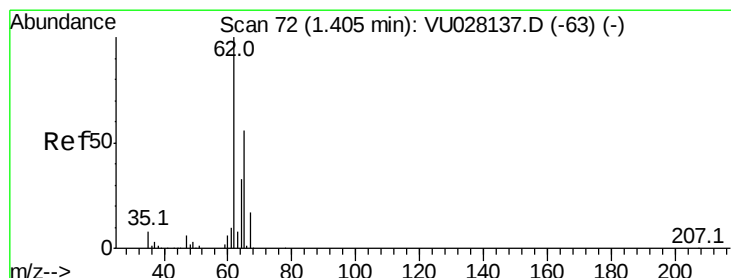
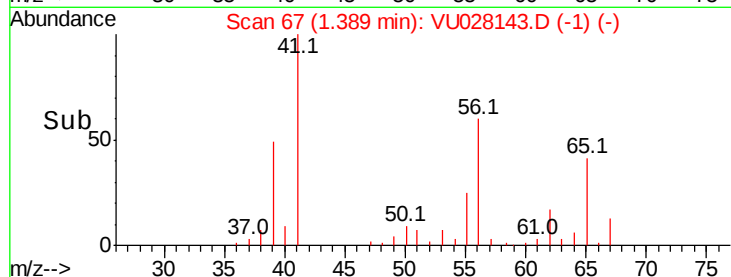
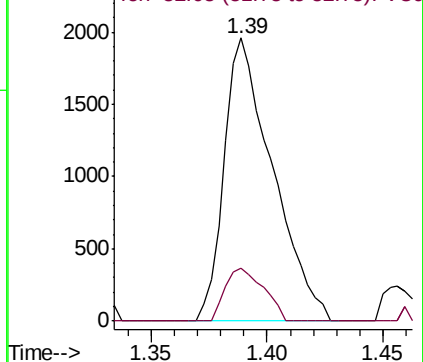
Ion Ratio Lower Upper

50 100

52 18.5 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: 7.050 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028143.D

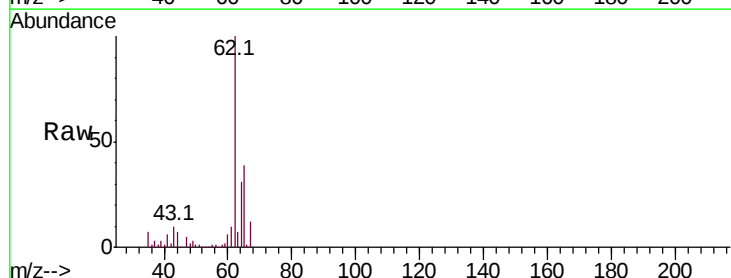
Acq: 15 Nov 2018 00:55

Tgt Ion: 62 Resp: 100780

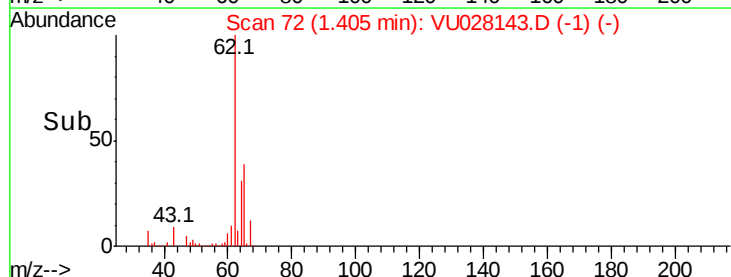
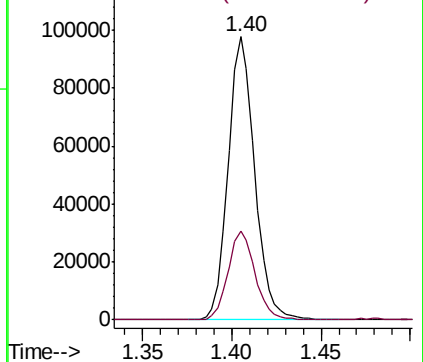
Ion Ratio Lower Upper

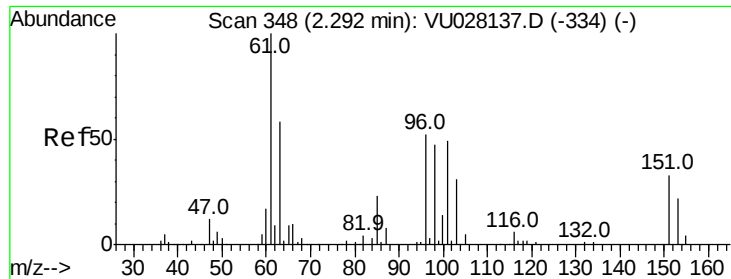
62 100

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





#10

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

Concen: 0.046 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

Instrument :

MSVOA_U

ClientSampleId :

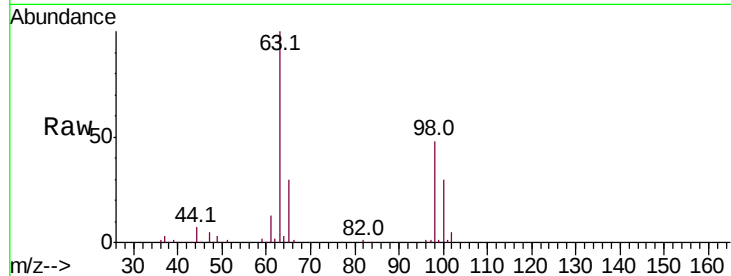
Tot Ion:101 Resp: 399

Ion Ratio Lower Upper

101 100

85 18.8 37.6 56.4#

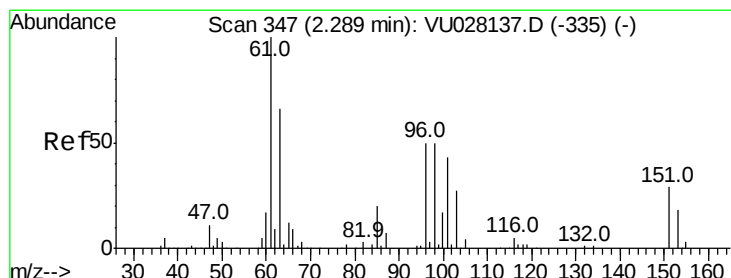
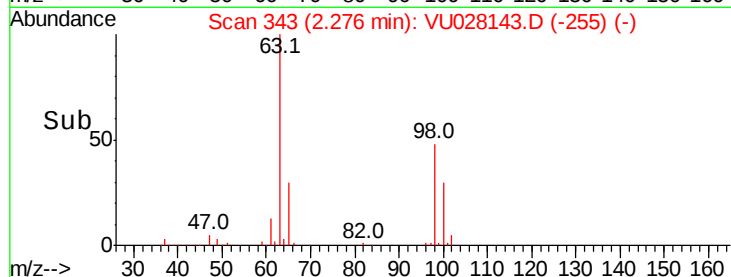
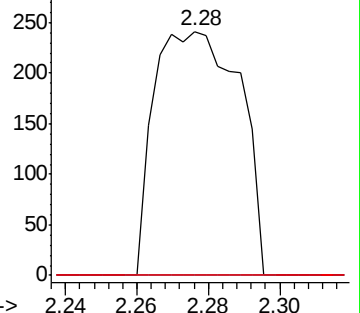
151 0.0 58.2 87.2#



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: 0.144 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.01 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

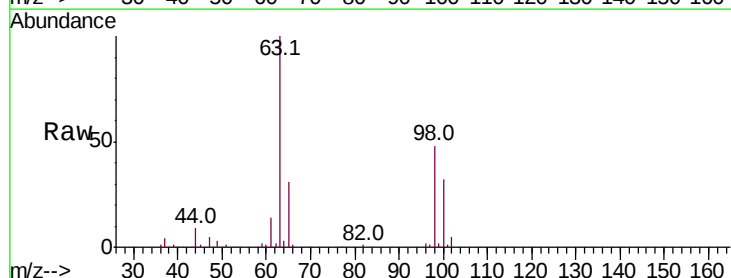
Tgt Ion: 96 Resp: 1274

Ion Ratio Lower Upper

96 100

61 690.3 134.8 250.3#

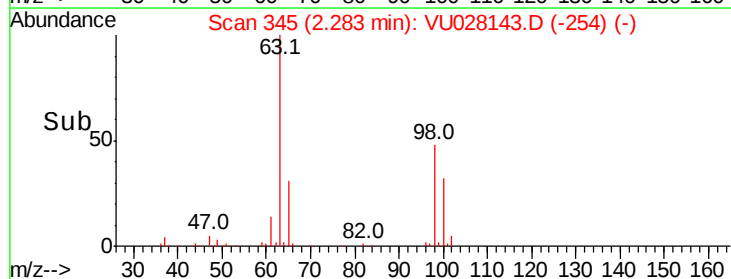
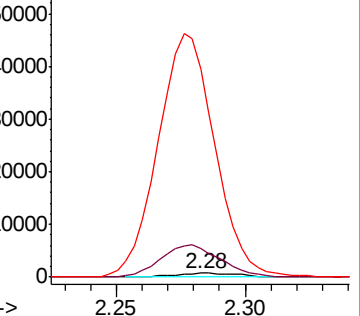
63 5047.9 100.1 185.9#

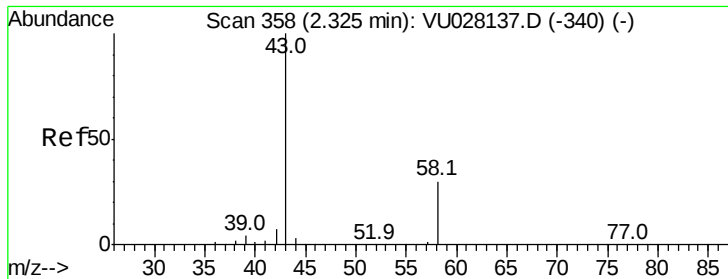


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.832 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

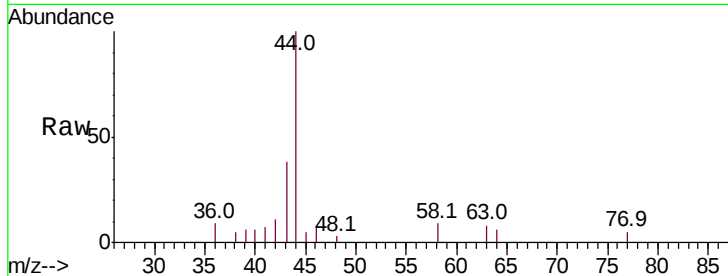
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 1800

Ion Ratio Lower Upper

43 100

58 21.4 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.32

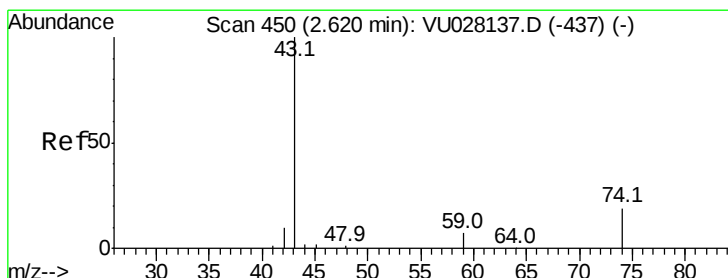
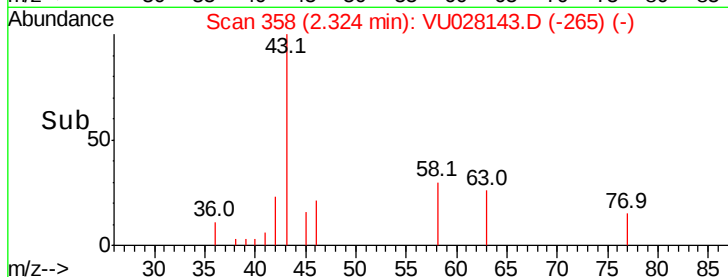
1000

500

0

Time-->

2.30 2.35



#15

Methyl Acetate

Concen: 0.167 ug/L

RT: 2.64 min Scan# 455

Delta R.T. 0.02 min

Lab File: VU028143.D

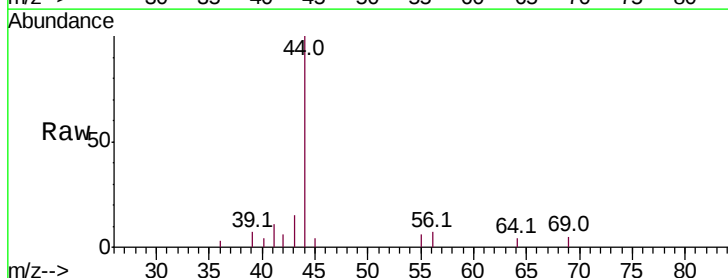
Acq: 15 Nov 2018 00:55

Tgt Ion: 43 Resp: 968

Ion Ratio Lower Upper

43 100

74 0.0 14.9 22.3#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.64

500

400

300

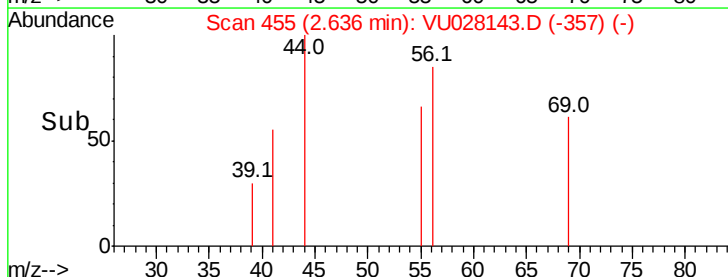
200

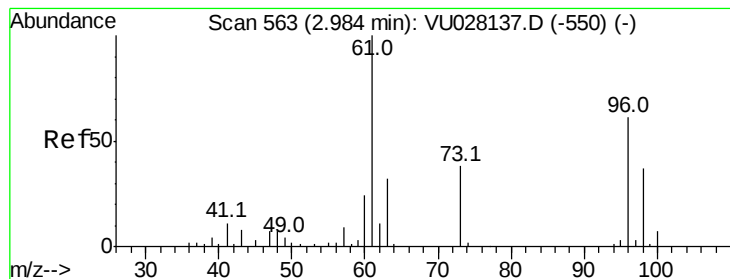
100

0

Time-->

2.60 2.65





#18

trans-1,2-Dichloroethene

Concen: 1.773 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

Instrument :
MSVOA_U
ClientSampleId :

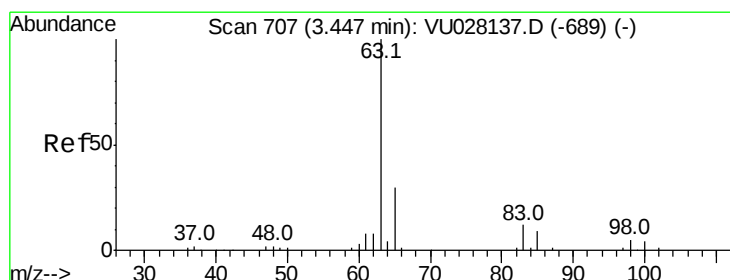
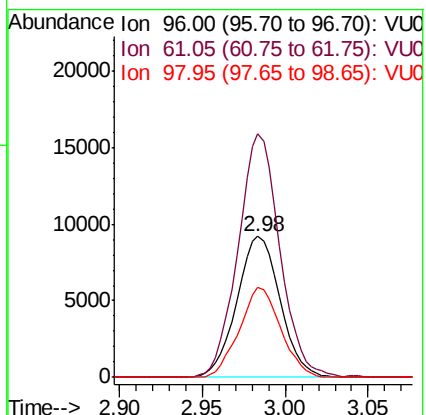
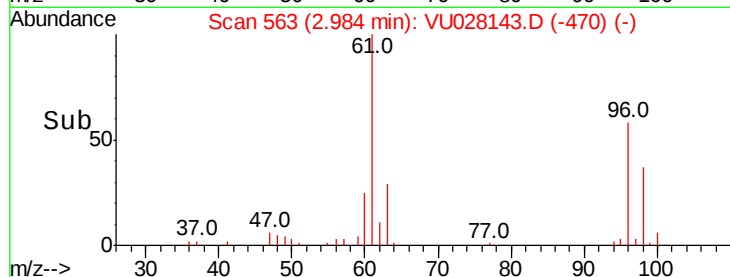
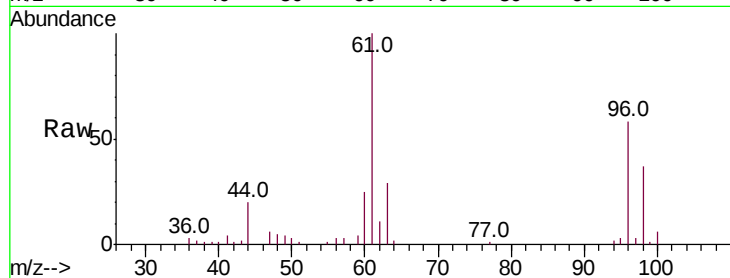
Tot Ion: 96 Resp: 16728

Ion Ratio Lower Upper

96 100

61 172.8 118.5 220.1

98 63.7 44.9 83.5



#19

1,1-Dichloroethane

Concen: 0.133 ug/L

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

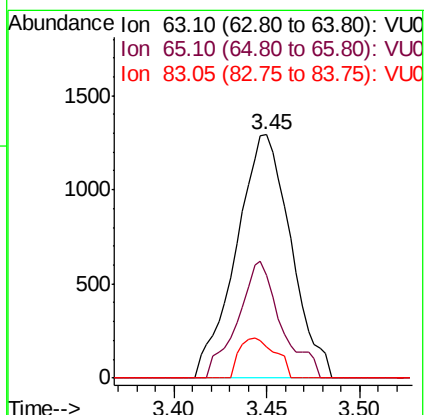
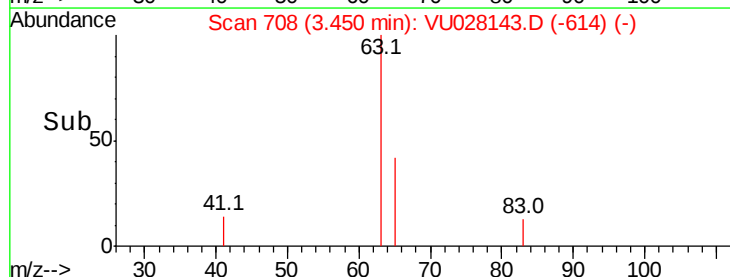
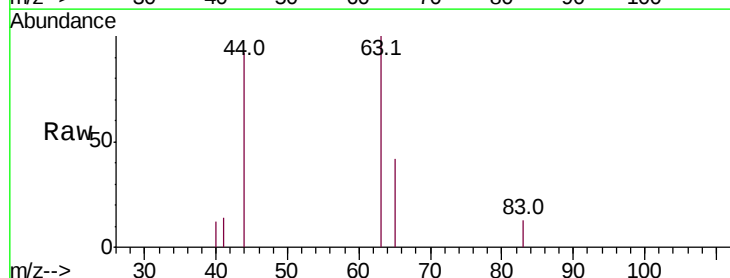
Tgt Ion: 63 Resp: 2642

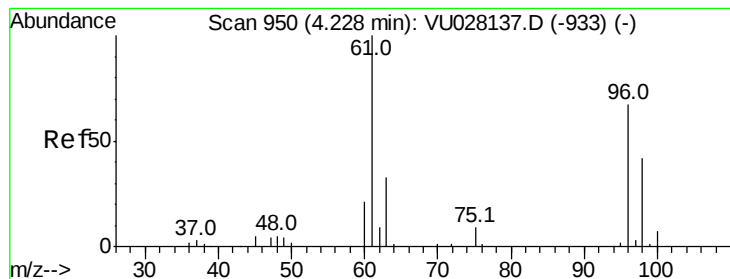
Ion Ratio Lower Upper

63 100

65 42.3 22.2 41.2#

83 12.6 8.9 16.5





#22

cis-1,2-Dichloroethene

Concen: 5.601 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

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ClientSampleId :

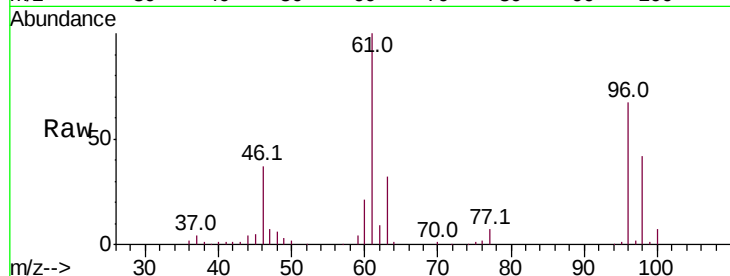
Tot Ion: 96 Resp: 58262

Ion Ratio Lower Upper

96 100

61 148.4 101.8 189.0

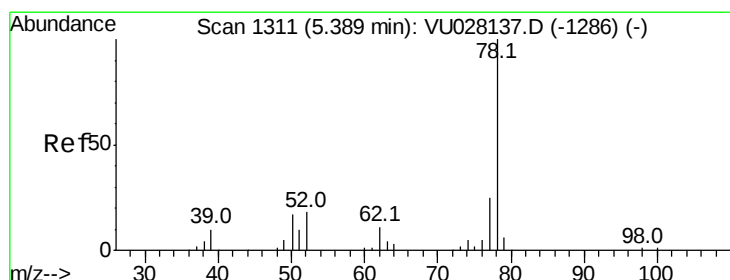
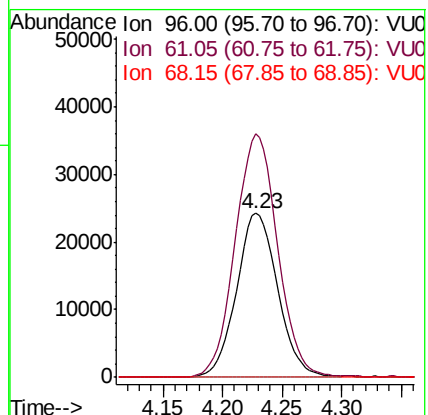
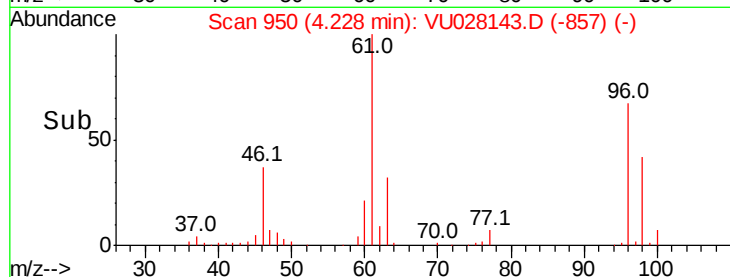
68 0.0 0.0 0.0



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



#33

Benzene

Concen: 0.053 ug/L

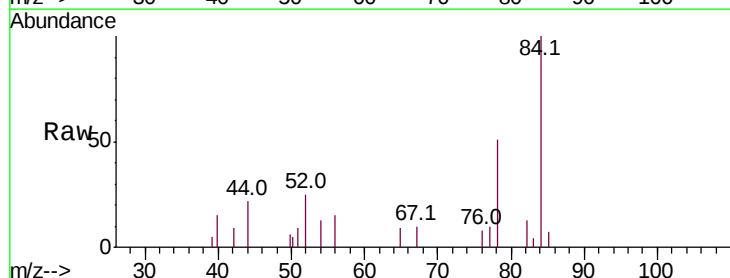
RT: 5.39 min Scan# 1310

Delta R.T. -0.00 min

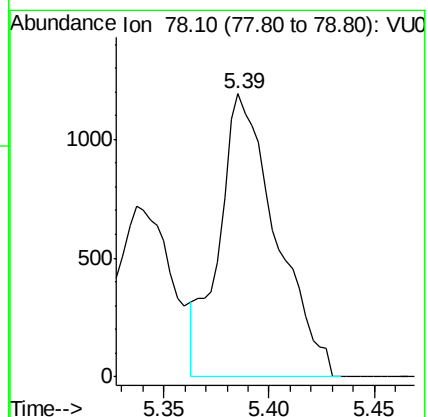
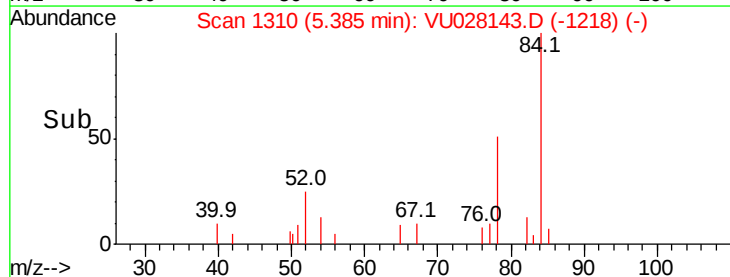
Lab File: VU028143.D

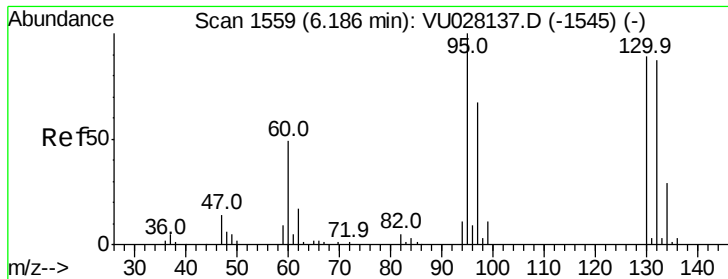
Acq: 15 Nov 2018 00:55

Tgt Ion: 78 Resp: 2235



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.297 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 3106

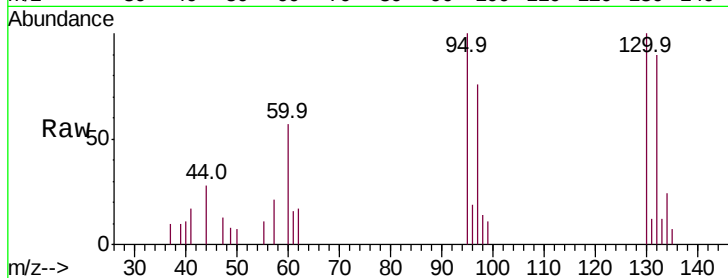
Ion Ratio Lower Upper

95 100

97 76.6 45.3 84.1

132 90.3 63.0 117.0

130 100.1 63.6 118.2

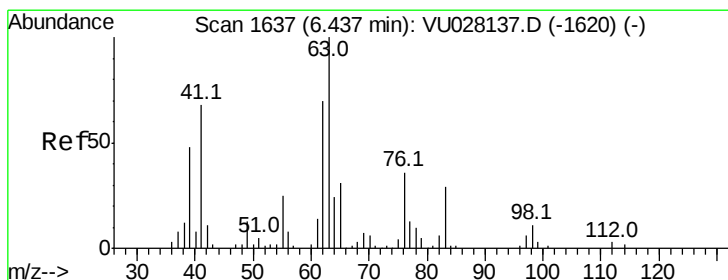
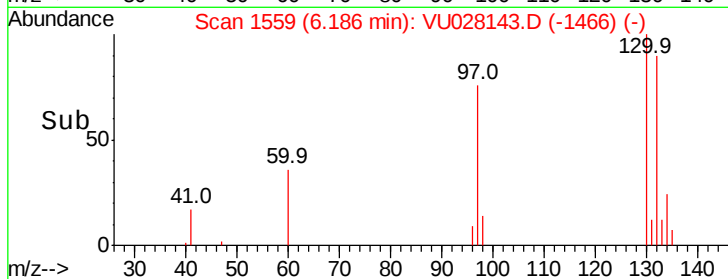
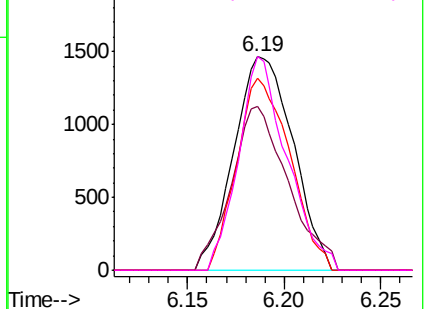


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#37

1,2-Dichloropropane

Concen: 0.570 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU028143.D

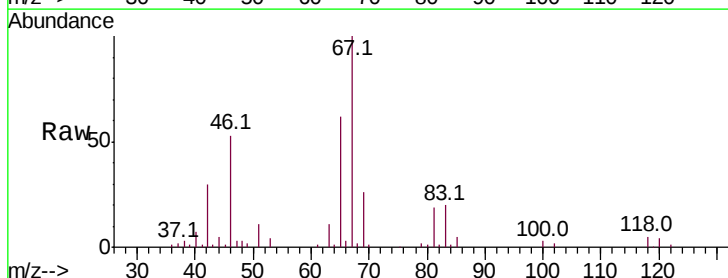
Acq: 15 Nov 2018 00:55

Tgt Ion: 63 Resp: 6665

Ion Ratio Lower Upper

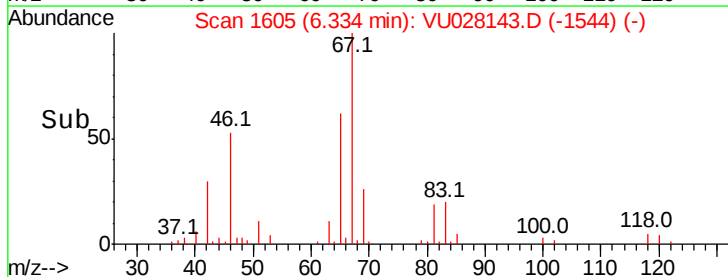
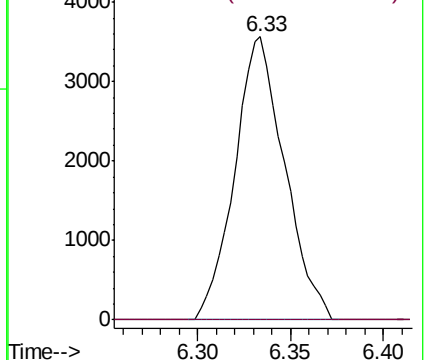
63 100

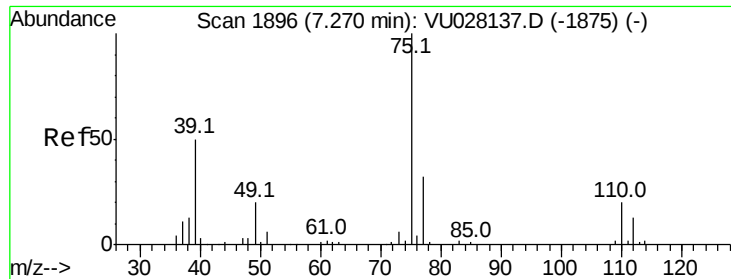
112 0.3 2.2 3.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

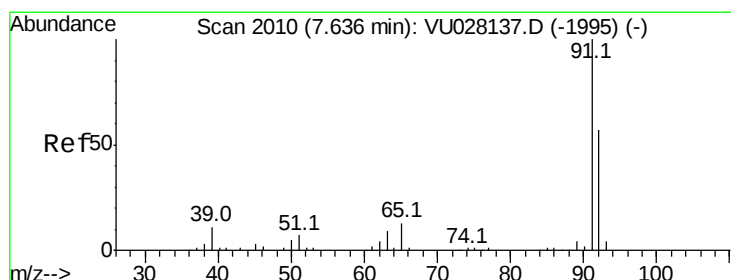
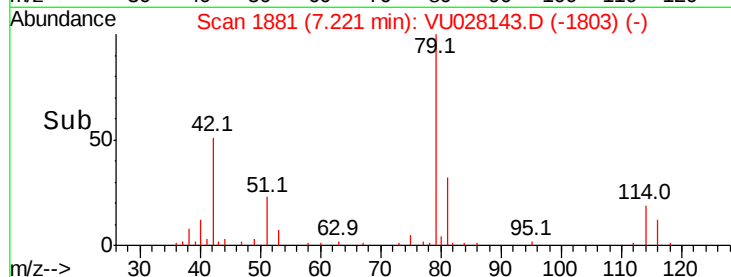
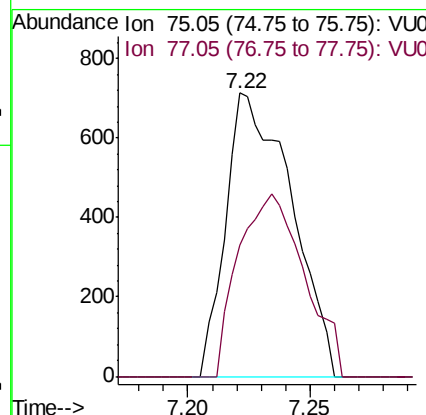
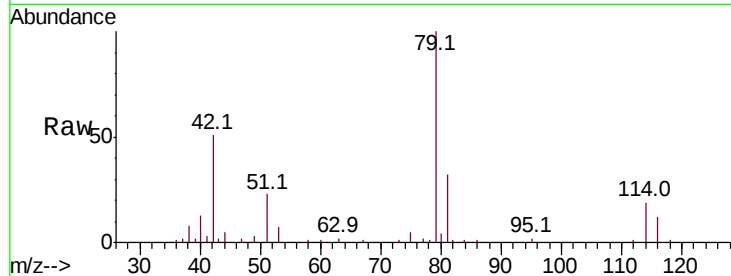




#39
 cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.22 min Scan# 1881
 Delta R.T. -0.05 min
 Lab File: VU028143.D
 Acq: 15 Nov 2018 00:55

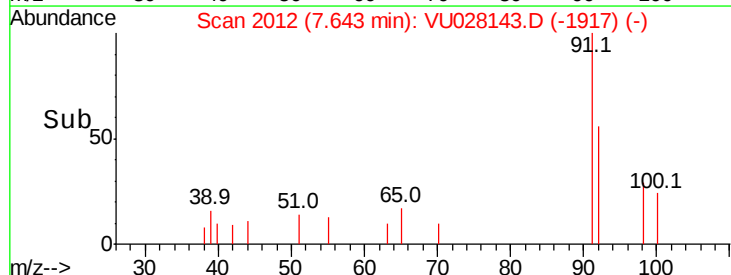
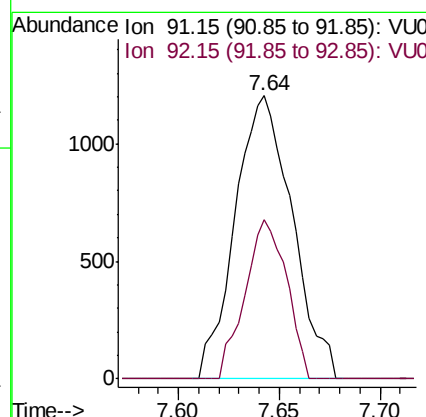
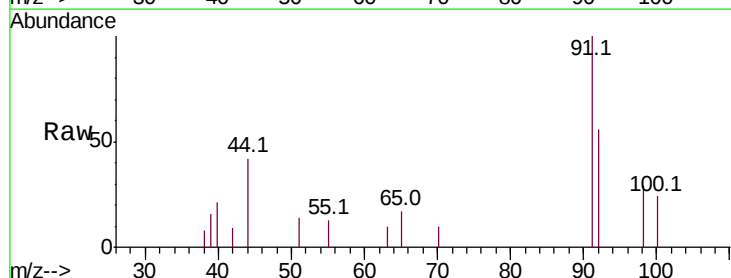
Instrument :
 MSVOA_U
 ClientSampled :

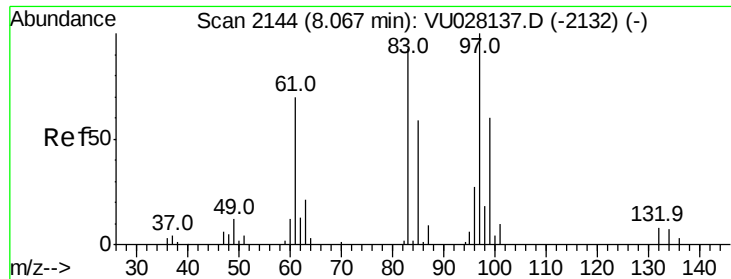
Tot Ion: 75 Resp: 1328
 Ion Ratio Lower Upper
 75 100
 77 46.3 20.9 38.9#



#42
 Toluene
 Concen: 0.055 ug/L
 RT: 7.64 min Scan# 2012
 Delta R.T. 0.01 min
 Lab File: VU028143.D
 Acq: 15 Nov 2018 00:55

Tgt Ion: 91 Resp: 2379
 Ion Ratio Lower Upper
 91 100
 92 56.2 40.7 75.7

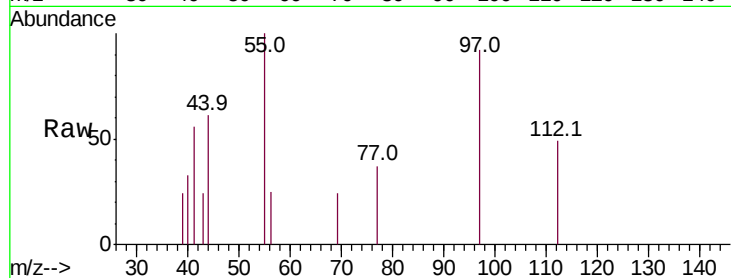




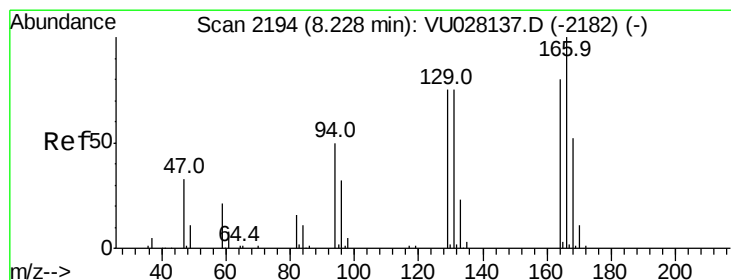
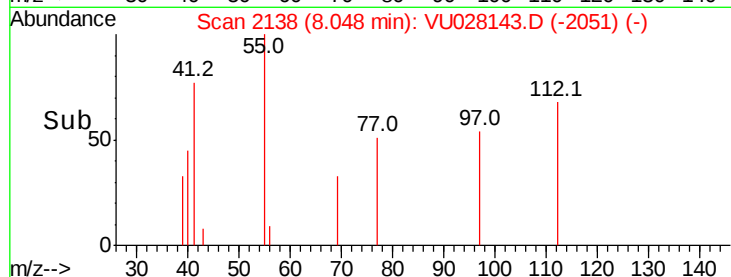
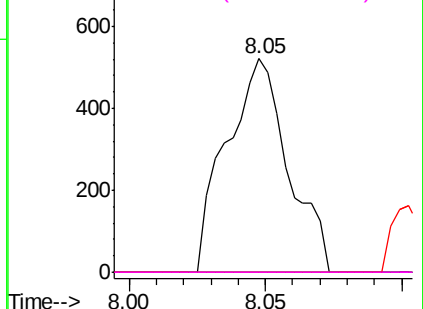
#45
1,1,2-Trichloroethane
Concen: 0.116 ug/L
RT: 8.05 min Scan# 2138
Delta R.T. -0.02 min
Lab File: VU028143.D
Acq: 15 Nov 2018 00:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 817
Ion Ratio Lower Upper
97 100
99 0.0 42.1 78.1#
83 0.0 63.7 118.3#
85 0.0 40.6 75.4#

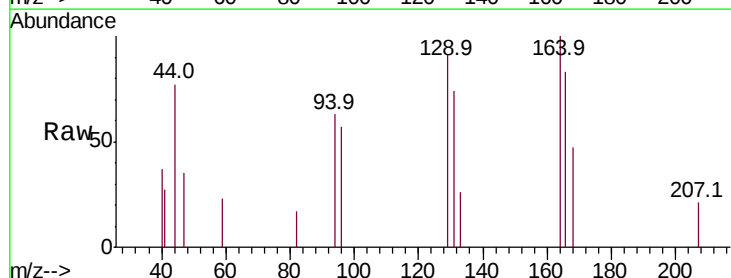


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

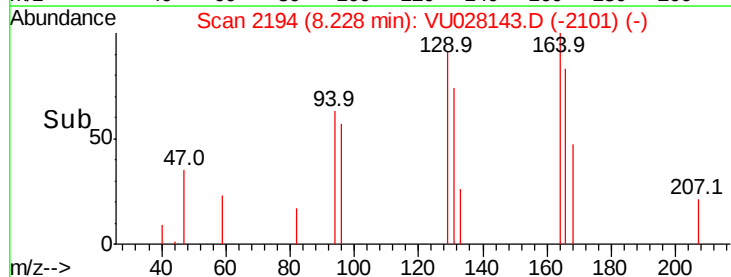
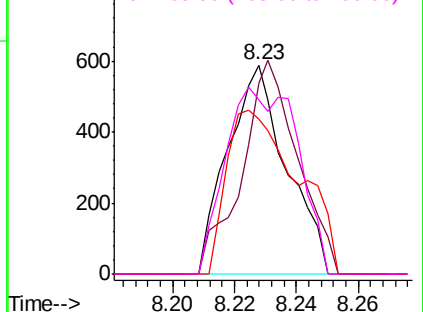


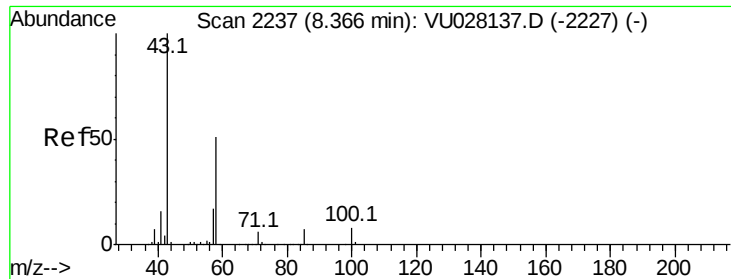
#47
Tetrachloroethene
Concen: 0.092 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028143.D
Acq: 15 Nov 2018 00:55

Tgt Ion:164 Resp: 778
Ion Ratio Lower Upper
164 100
129 91.5 69.7 129.4
131 74.0 64.0 118.8
166 83.2 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

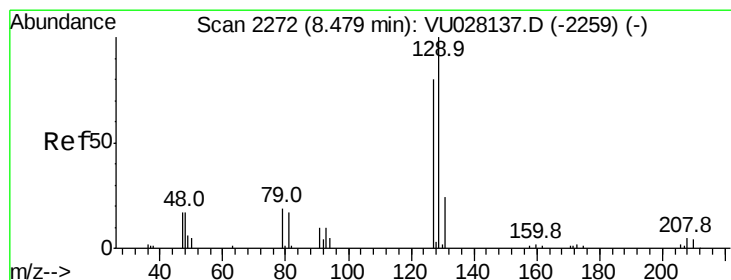
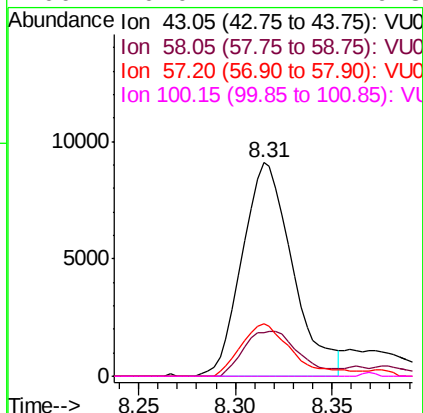
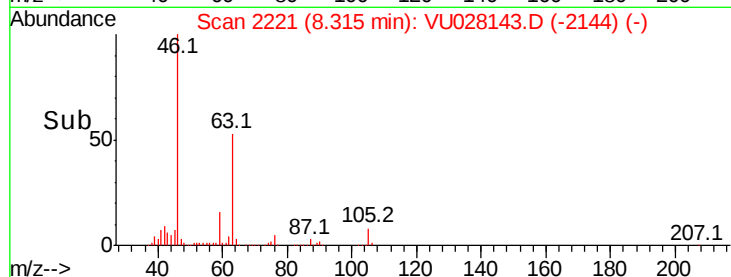
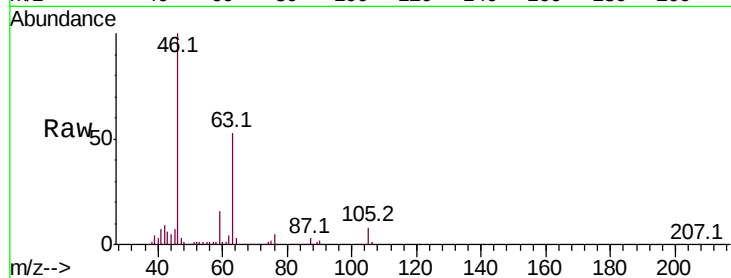




#48
2-Hexanone
Concen: 2.886 ug/L
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU028143.D
Acq: 15 Nov 2018 00:55

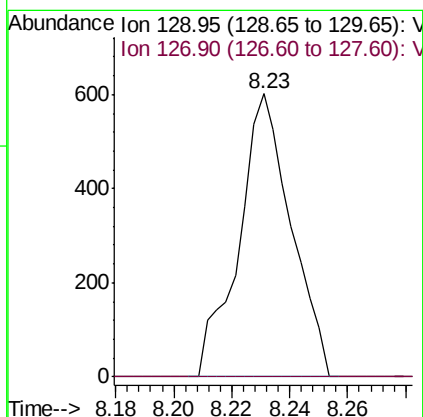
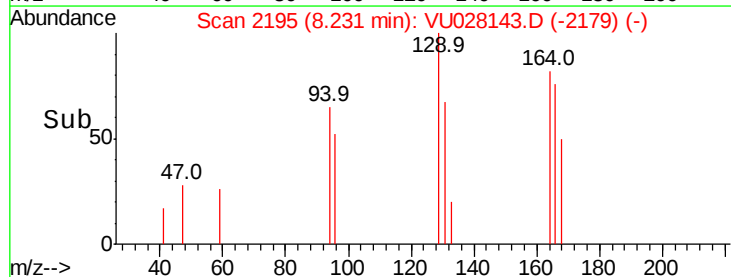
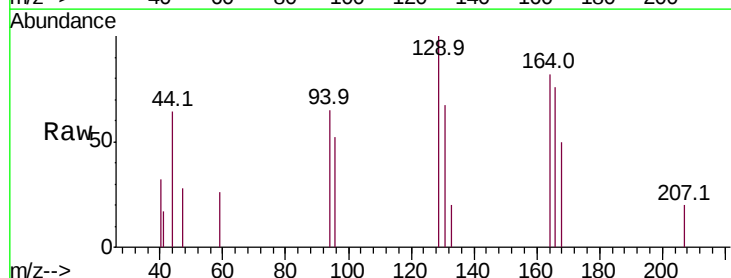
Instrument :
MSVOA_U
ClientSampled :

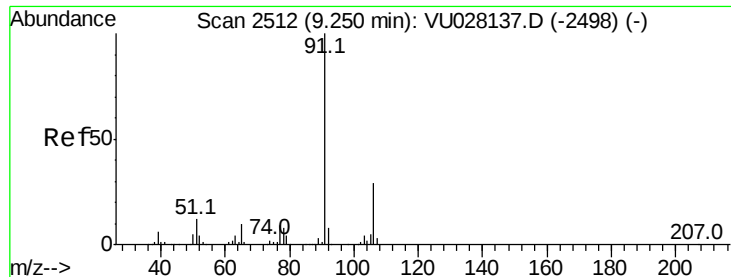
Tot Ion: 43 Resp: 16533
Ion Ratio Lower Upper
43 100
58 23.1 41.7 62.5#
57 25.4 14.0 21.0#
100 0.0 7.2 10.8#



#49
Dibromochloromethane
Concen: 0.100 ug/L
RT: 8.23 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VU028143.D
Acq: 15 Nov 2018 00:55

Tgt Ion: 129 Resp: 755
Ion Ratio Lower Upper
129 100
127 0.0 54.1 100.5#





#52

Ethylbenzene

Concen: 0.041 ug/L

RT: 9.26 min Scan# 2514

Delta R.T. 0.01 min

Lab File: VU028143.D

Acq: 15 Nov 2018 00:55

Instrument :

MSVOA_U

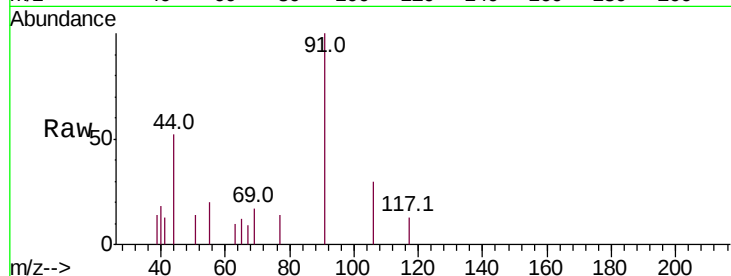
ClientSampleId :

Tot Ion: 91 Resp: 1972

Ion Ratio Lower Upper

91 100

106 30.4 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): VU0

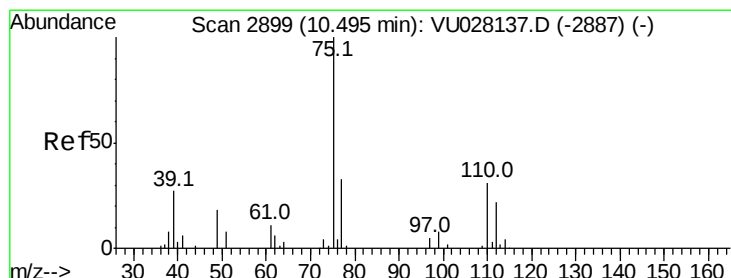
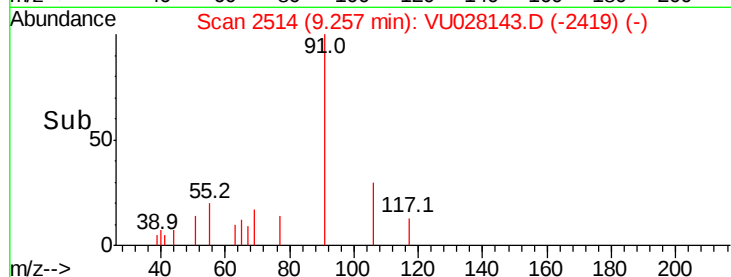
9.26

1000

500

0

Time--> 9.20 9.25 9.30



#59

1,2,3-Trichloropropane

Concen: 1.313 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028143.D

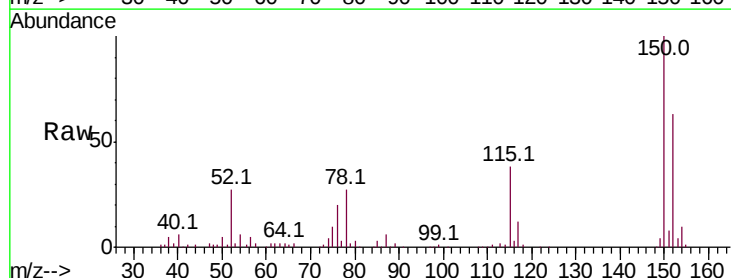
Acq: 15 Nov 2018 00:55

Tgt Ion: 75 Resp: 8624

Ion Ratio Lower Upper

75 100

77 35.1 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.48

6000

5000

4000

3000

2000

1000

0

Time--> 11.45 11.50 11.55

