

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122118\
 Data File : VU028871.D
 Acq On : 21 Dec 2018 14:10
 Operator : MD/SY
 Sample : J6419-12MEDL 4X
 Misc : 5.55uL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 21 23:31:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 21 23:27:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	173186	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	165979	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	71374	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	84287	60.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	121.42%
7) Chloroethane-d5	1.65	69	71958	67.10	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	134.20%#
11) 1,1-Dichloroethene-d2	2.26	63	116222	49.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.56%
21) 2-Butanone-d5	4.18	46	179073	184.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	184.09%#
24) Chloroform-d	4.64	84	163529	74.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	149.80%#
26) 1,2-Dichloroethane-d4	5.31	65	103653	77.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	154.04%#
32) Benzene-d6	5.34	84	352905	75.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	150.52%#
36) 1,2-Dichloropropane-d6	6.33	67	125058	78.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	157.02%#
41) Toluene-d8	7.56	98	309444	72.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	145.64%#
43) trans-1,3-Dichloropropene-	7.85	79	53300	74.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	149.34%#
47) 2-Hexanone-d5	8.31	63	147438	194.87	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	194.87%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	185356	83.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	167.74%#
64) 1,2-Dichlorobenzene-d4	11.86	152	118698	82.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	164.46%#

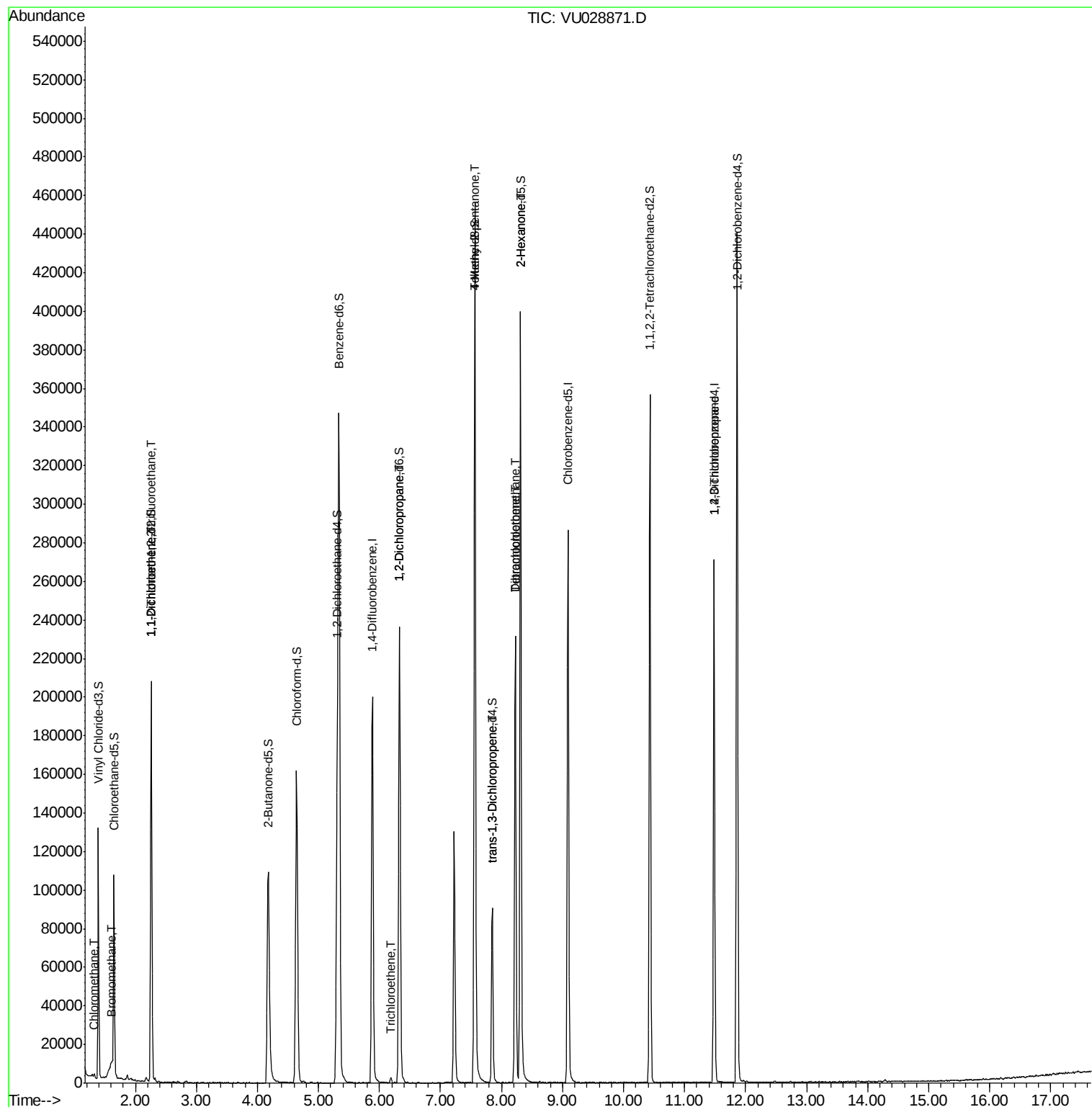
Target Compounds

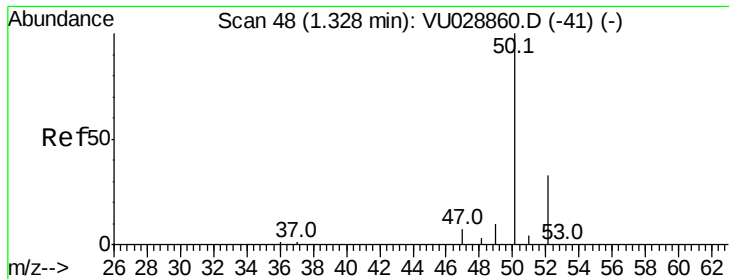
					Ovalue
3) Chloromethane	1.32	50	1642	0.855 ug/L	98
6) Bromomethane	1.60	94	405	0.560 ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	947	0.844 ug/L #	20
12) 1,1-Dichloroethene	2.26	96	783	0.705 ug/L #	1
34) Trichloroethene	6.19	95	830	0.651 ug/L	87
37) 1,2-Dichloropropane	6.33	63	11972	8.105 ug/L #	90
40) 4-Methyl-2-pentanone	7.56	43	1161	0.585 ug/L #	1
44) trans-1,3-Dichloropropene	7.85	75	2030	1.081 ug/L #	81
46) Tetrachloroethene	8.22	164	54482	55.451 ug/L	97
48) 2-Hexanone	8.31	43	15332	9.409 ug/L #	65
49) Dibromochloromethane	8.22	129	50451	40.105 ug/L #	11
59) 1,2,3-Trichloropropane	11.48	75	8463	4.801 ug/L	95

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

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.855 ug/L

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU028871.D

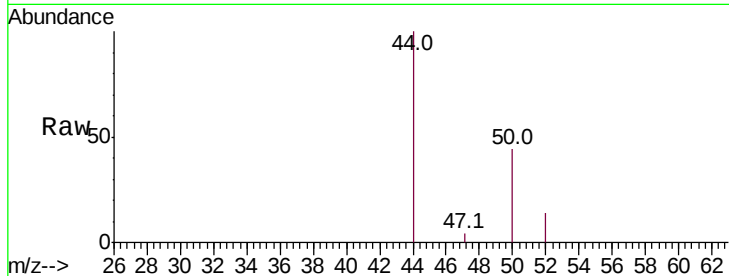
Acq: 21 Dec 2018 14:10

Tot Ion: 50 Resp: 1642

Ion Ratio Lower Upper

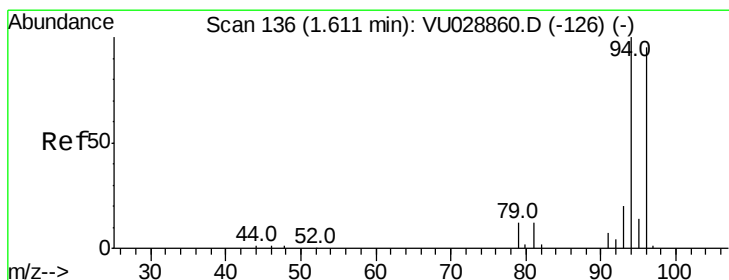
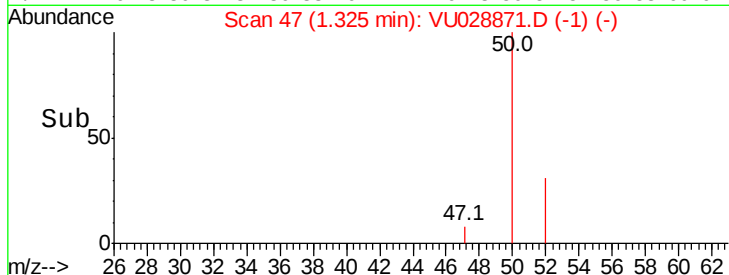
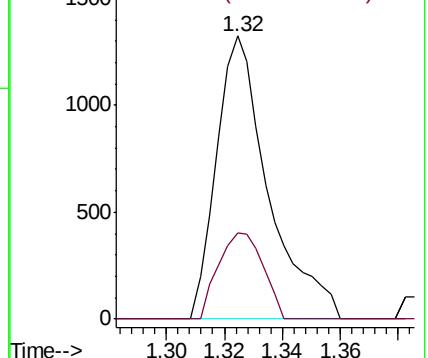
50 100

52 30.7 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#6

Bromomethane

Concen: 0.560 ug/L

RT: 1.60 min Scan# 133

Delta R.T. -0.01 min

Lab File: VU028871.D

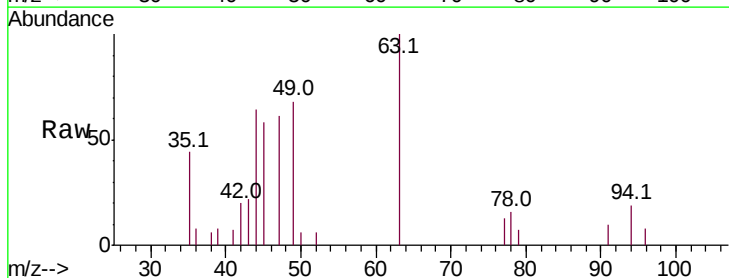
Acq: 21 Dec 2018 14:10

Tgt Ion: 94 Resp: 405

Ion Ratio Lower Upper

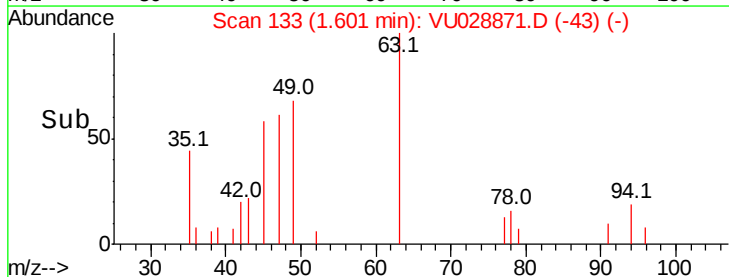
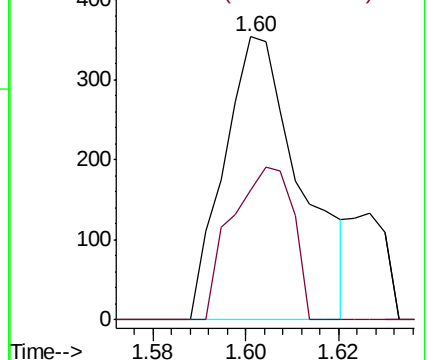
94 100

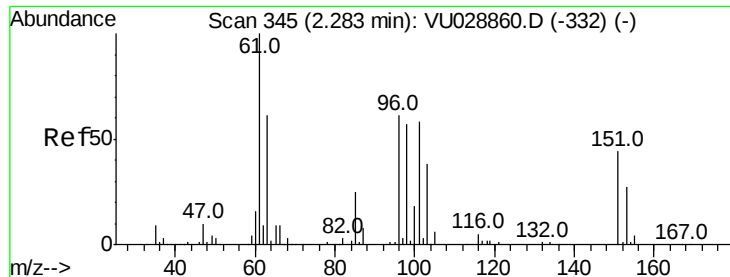
96 45.6 67.3 125.1#



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#10

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

Concen: 0.844 ug/L

RT: 2.26 min Scan# 338

Delta R.T. -0.02 min

Lab File: VU028871.D

Acq: 21 Dec 2018 14:10

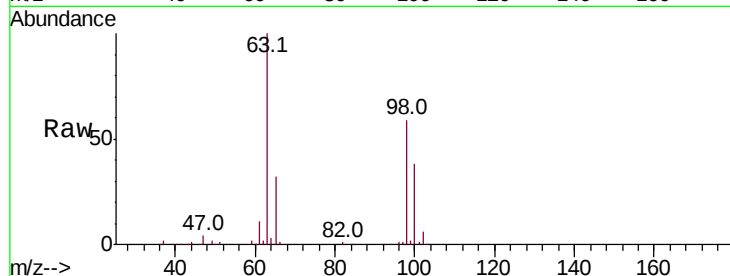
Tot Ion: 101 Resp: 947

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

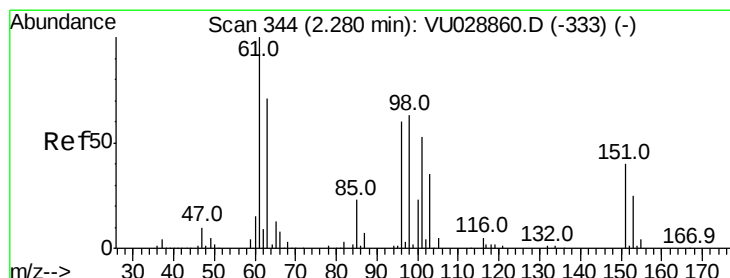
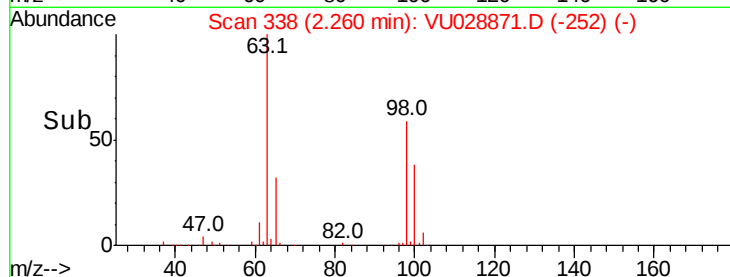
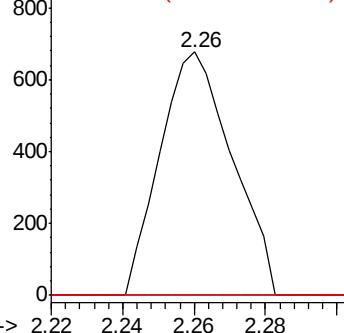
151 0.0 59.4 89.0#



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: 0.705 ug/L

RT: 2.26 min Scan# 338

Delta R.T. -0.02 min

Lab File: VU028871.D

Acq: 21 Dec 2018 14:10

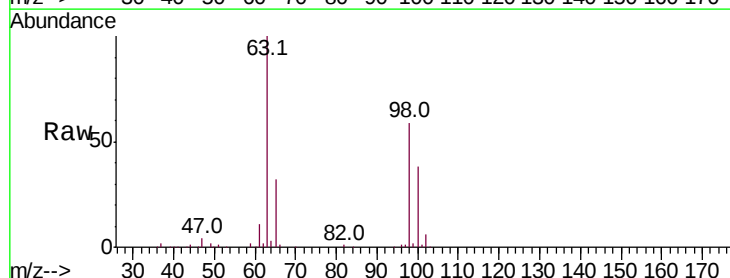
Tgt Ion: 96 Resp: 783

Ion Ratio Lower Upper

96 100

61 1418.4 119.3 221.5#

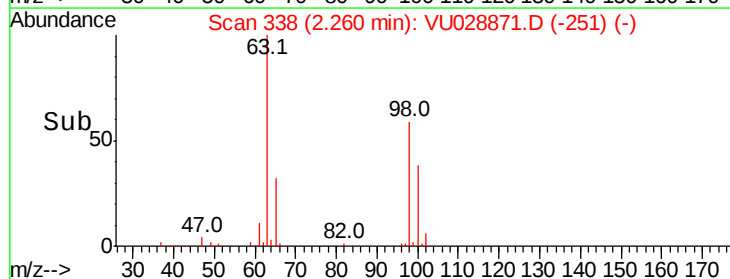
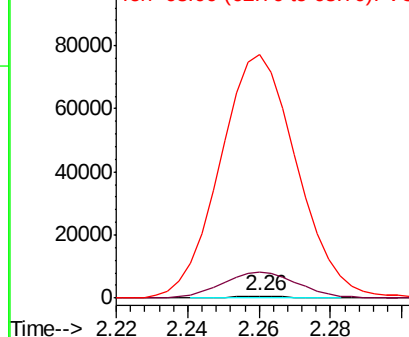
63 13037.8 107.4 199.6#

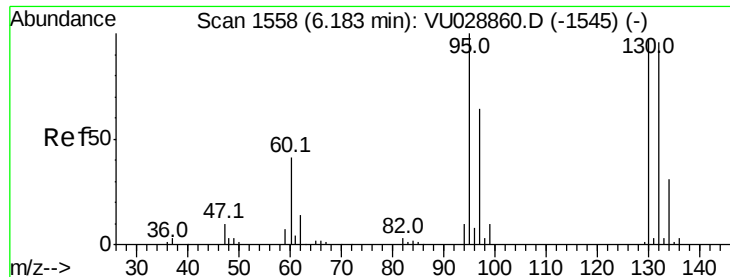


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#34

Trichloroethene

Concen: 0.651 ug/L

RT: 6.19 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VU028871.D

Acq: 21 Dec 2018 14:10

Tot Ion: 95 Resp: 830

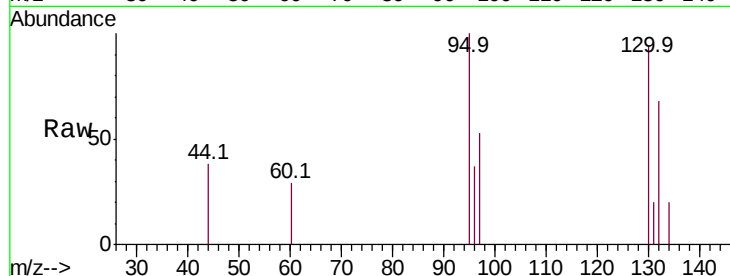
Ion Ratio Lower Upper

95 100

97 53.4 43.3 80.3

132 67.9 64.2 119.2

130 94.3 67.1 124.7

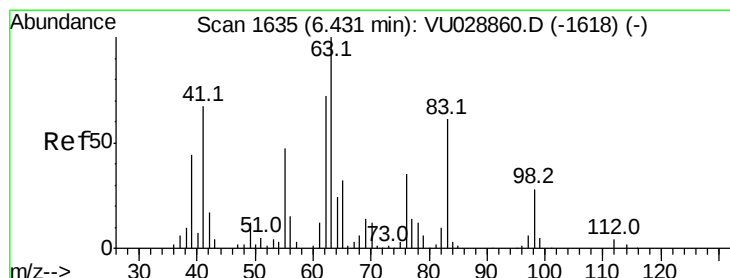
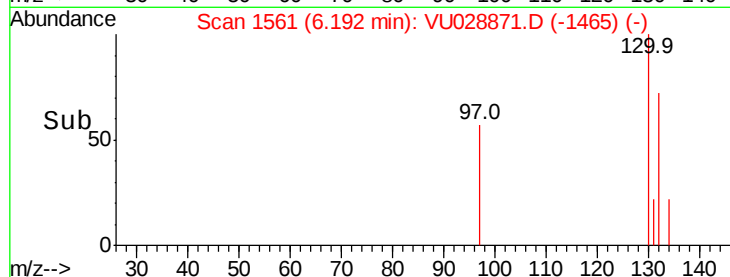
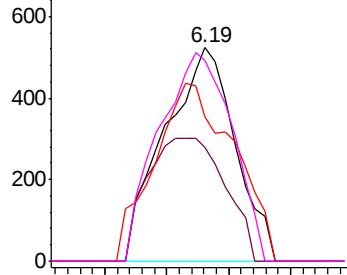


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#37

1,2-Dichloropropane

Concen: 8.105 ug/L

RT: 6.33 min Scan# 1603

Delta R.T. -0.10 min

Lab File: VU028871.D

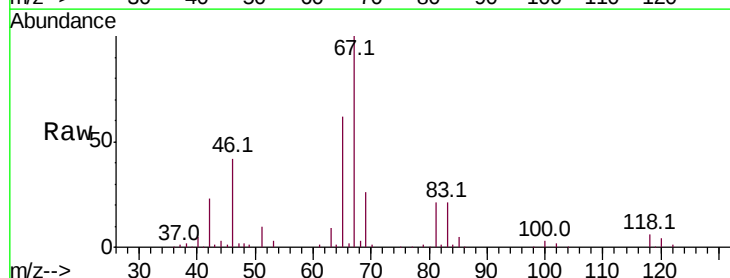
Acq: 21 Dec 2018 14:10

Tgt Ion: 63 Resp: 11972

Ion Ratio Lower Upper

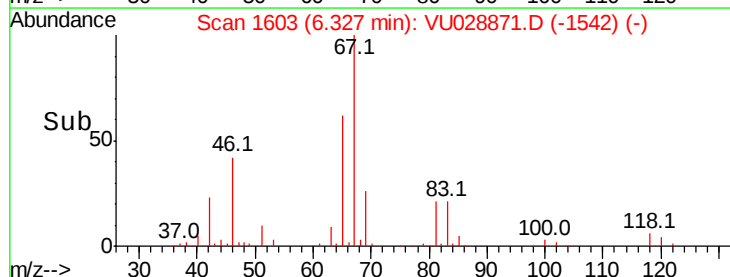
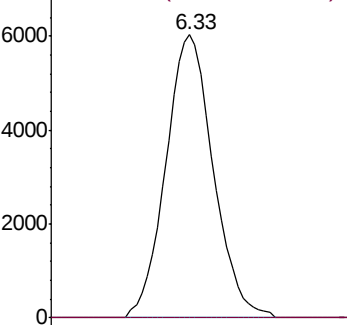
63 100

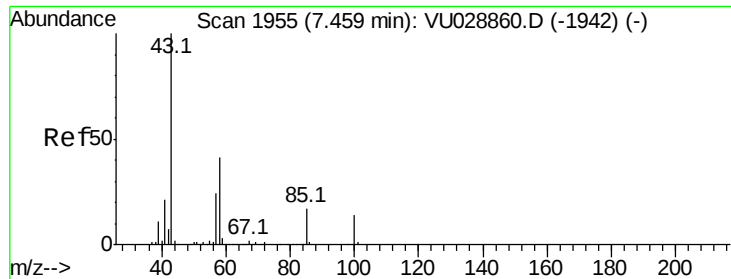
112 0.0 2.7 4.1#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V





#40

4-Methyl-2-pentanone

Concen: 0.585 ug/L

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU028871.D

Acq: 21 Dec 2018 14:10

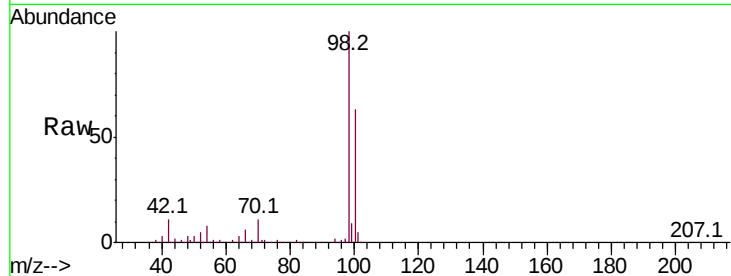
Tot Ion: 43 Resp: 1161

Ion Ratio Lower Upper

43 100

58 197.4 33.1 49.7#

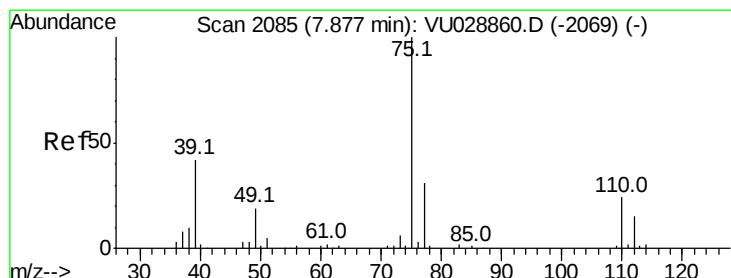
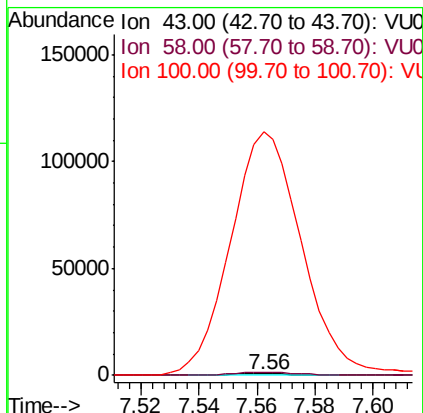
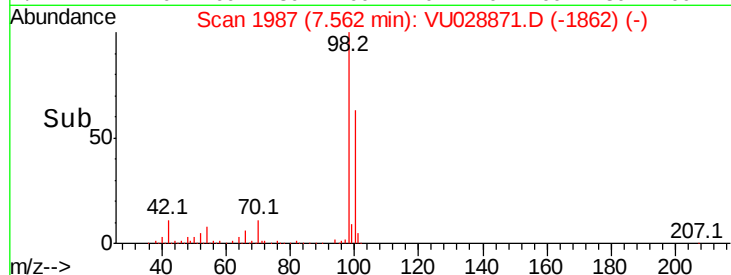
100 17040.7 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VU028871.D (-1987) (-)

Ion 58.00 (57.70 to 58.70): VU028871.D (-1987) (-)

Ion 100.00 (99.70 to 100.70): VU028871.D (-1987) (-)



#44

trans-1,3-Dichloropropene

Concen: 1.081 ug/L

RT: 7.85 min Scan# 2075

Delta R.T. -0.03 min

Lab File: VU028871.D

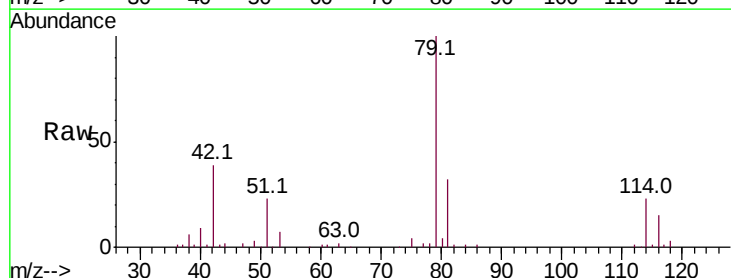
Acq: 21 Dec 2018 14:10

Tgt Ion: 75 Resp: 2030

Ion Ratio Lower Upper

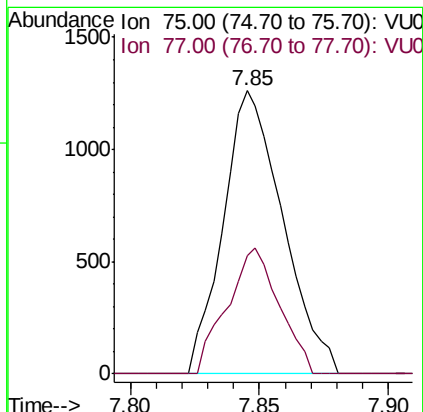
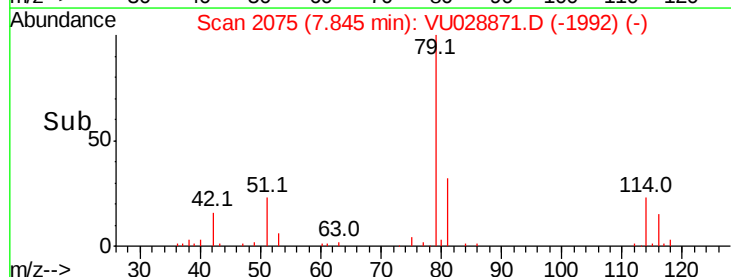
75 100

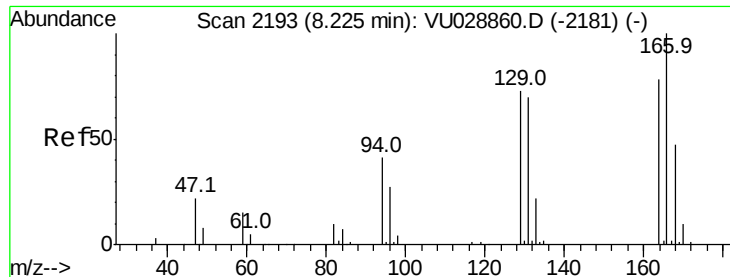
77 41.8 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU028871.D (-2075) (-)

Ion 77.00 (76.70 to 77.70): VU028871.D (-2075) (-)





#46

Tetrachloroethene

Concen: 55.451 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028871.D

Acq: 21 Dec 2018 14:10

Tot Ion:164 Resp: 54482

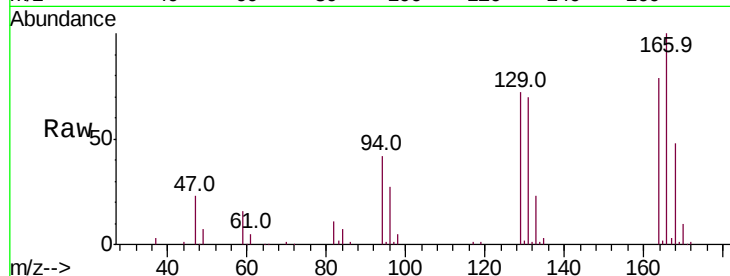
Ion Ratio Lower Upper

164 100

129 91.2 66.8 124.0

131 89.4 64.2 119.2

166 127.3 90.8 168.6

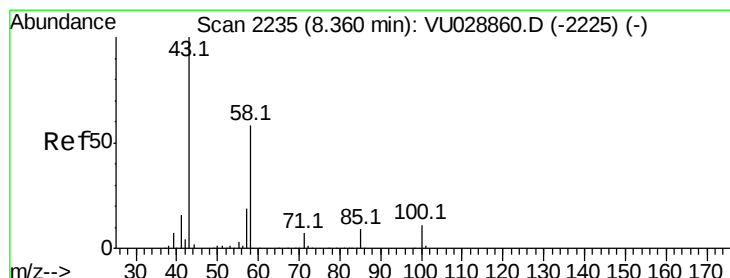
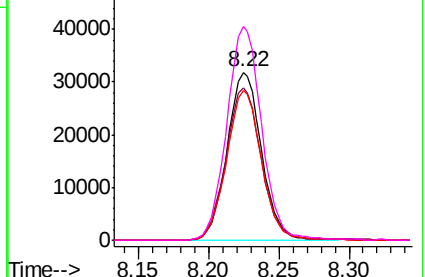
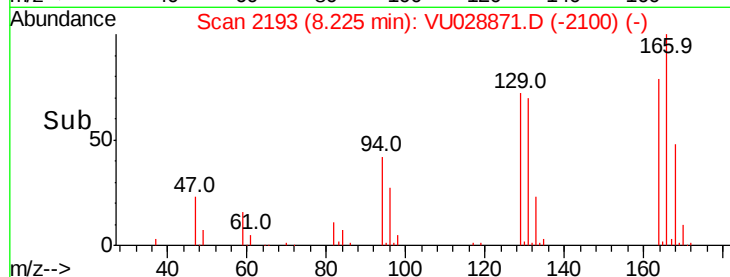


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 9.409 ug/L

RT: 8.31 min Scan# 2220

Delta R.T. -0.05 min

Lab File: VU028871.D

Acq: 21 Dec 2018 14:10

Tgt Ion: 43 Resp: 15332

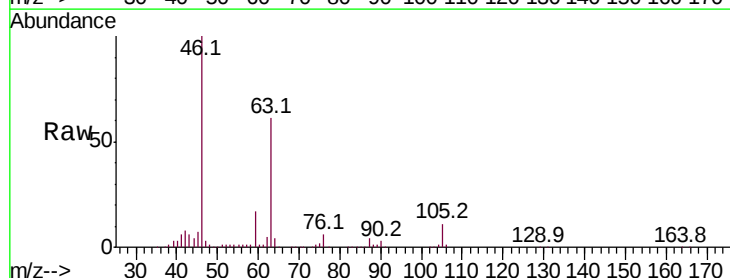
Ion Ratio Lower Upper

43 100

58 23.8 45.9 68.9#

57 22.4 15.0 22.4

100 0.0 8.7 13.1#

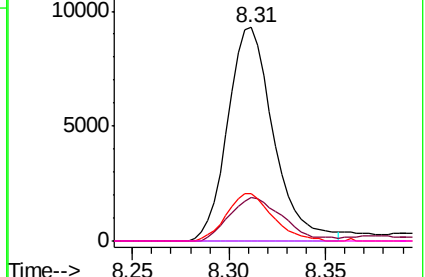
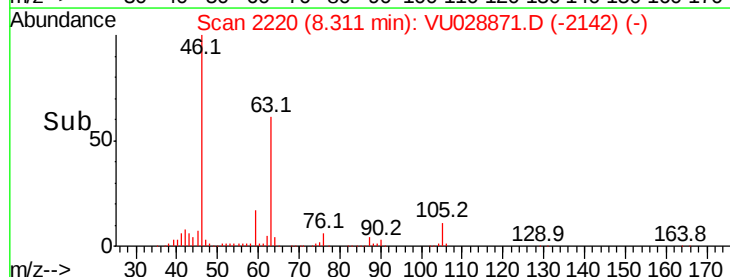


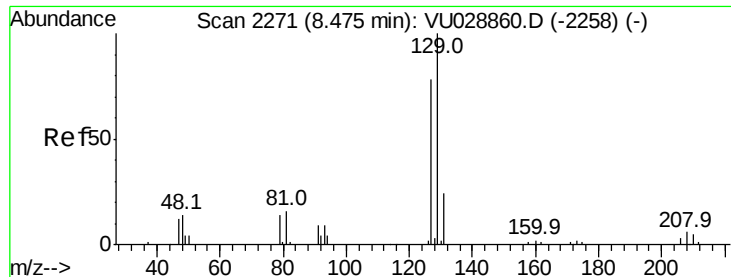
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 40.105 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028871.D

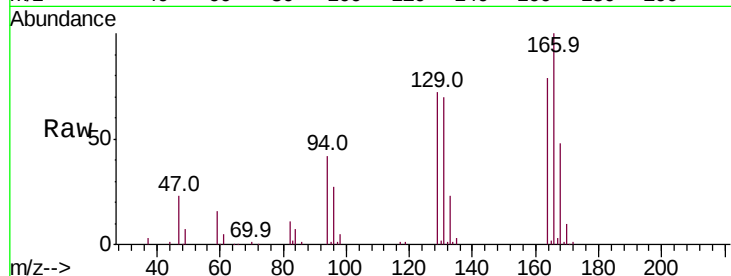
Acq: 21 Dec 2018 14:10

Tot Ion:129 Resp: 50451

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.22

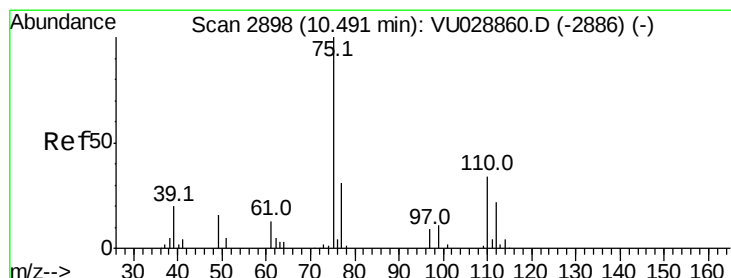
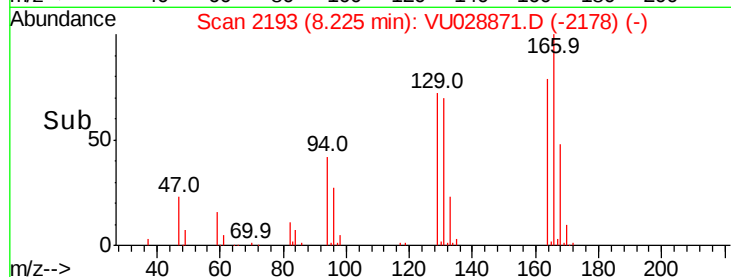
30000

20000

10000

0

Time--> 8.15 8.20 8.25 8.30



#59

1,2,3-Trichloropropane

Concen: 4.801 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028871.D

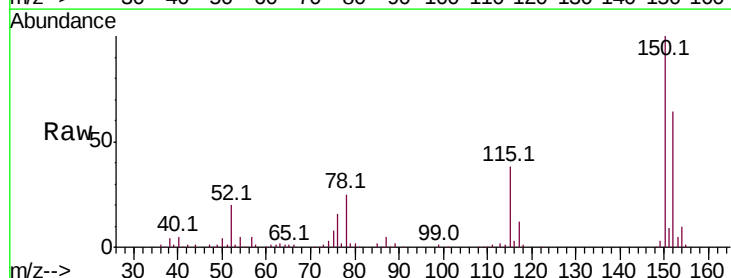
Acq: 21 Dec 2018 14:10

Tgt Ion: 75 Resp: 8463

Ion Ratio Lower Upper

75 100

77 34.4 25.5 38.3



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

