

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122118\
 Data File : VU028870.D
 Acq On : 21 Dec 2018 13:46
 Operator : MD/SY
 Sample : J6468-16ME
 Misc : 4.68g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 21 23:31:34 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	192459	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	185405	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	90333	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	45333	29.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	58.76%#
7) Chloroethane-d5	1.64	69	28500	23.91	ug/L	-0.03
Spiked Amount	50.000	Range	70 - 130	Recovery	=	47.82%#
11) 1,1-Dichloroethene-d2	2.22	63	61640	23.76	ug/L	-0.05
Spiked Amount	50.000	Range	60 - 125	Recovery	=	47.52%#
21) 2-Butanone-d5	4.20	46	101425	93.82	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.82%
24) Chloroform-d	4.64	84	89545	36.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	73.82%
26) 1,2-Dichloroethane-d4	5.30	65	57775	38.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.26%
32) Benzene-d6	5.33	84	189415	36.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.32%
36) 1,2-Dichloropropane-d6	6.32	67	68976	38.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	77.52%
41) Toluene-d8	7.56	98	164162	34.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	69.16%#
43) trans-1,3-Dichloropropene-	7.85	79	29994	37.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.24%
47) 2-Hexanone-d5	8.32	63	85891	101.63	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.63%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	115013	46.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.18%
64) 1,2-Dichlorobenzene-d4	11.86	152	72701	39.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.58%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.32	50	2773	1.299	ug/L	94
5) Vinyl chloride	1.40	62	11382	6.038	ug/L	87
6) Bromomethane	1.60	94	499	0.621	ug/L	94
13) Acetone	2.35	43	1211	1.099	ug/L	89
15) Methyl Acetate	2.63	43	3009	1.752	ug/L	91
17) trans-1,2-Dichloroethene	2.95	96	11622	8.693	ug/L	93
20) cis-1,2-Dichloroethene	4.21	96	177434	117.160	ug/L	98
33) Benzene	5.38	78	2498	0.423	ug/L	100
34) Trichloroethene	6.18	95	80029	56.159	ug/L	96
37) 1,2-Dichloropropane	6.33	63	6259	3.793	ug/L #	98
39) cis-1,3-Dichloropropene	7.23	75	1419	0.603	ug/L #	50
42) Toluene	7.64	91	43799	7.320	ug/L	98
46) Tetrachloroethene	8.23	164	978	0.891	ug/L	88
48) 2-Hexanone	8.32	43	9178	5.042	ug/L #	65
49) Dibromochloromethane	8.22	129	876	0.623	ug/L #	11
52) Ethylbenzene	9.25	91	4046	0.629	ug/L	98
53) m,p-Xylene	9.38	106	3921	1.649	ug/L	92

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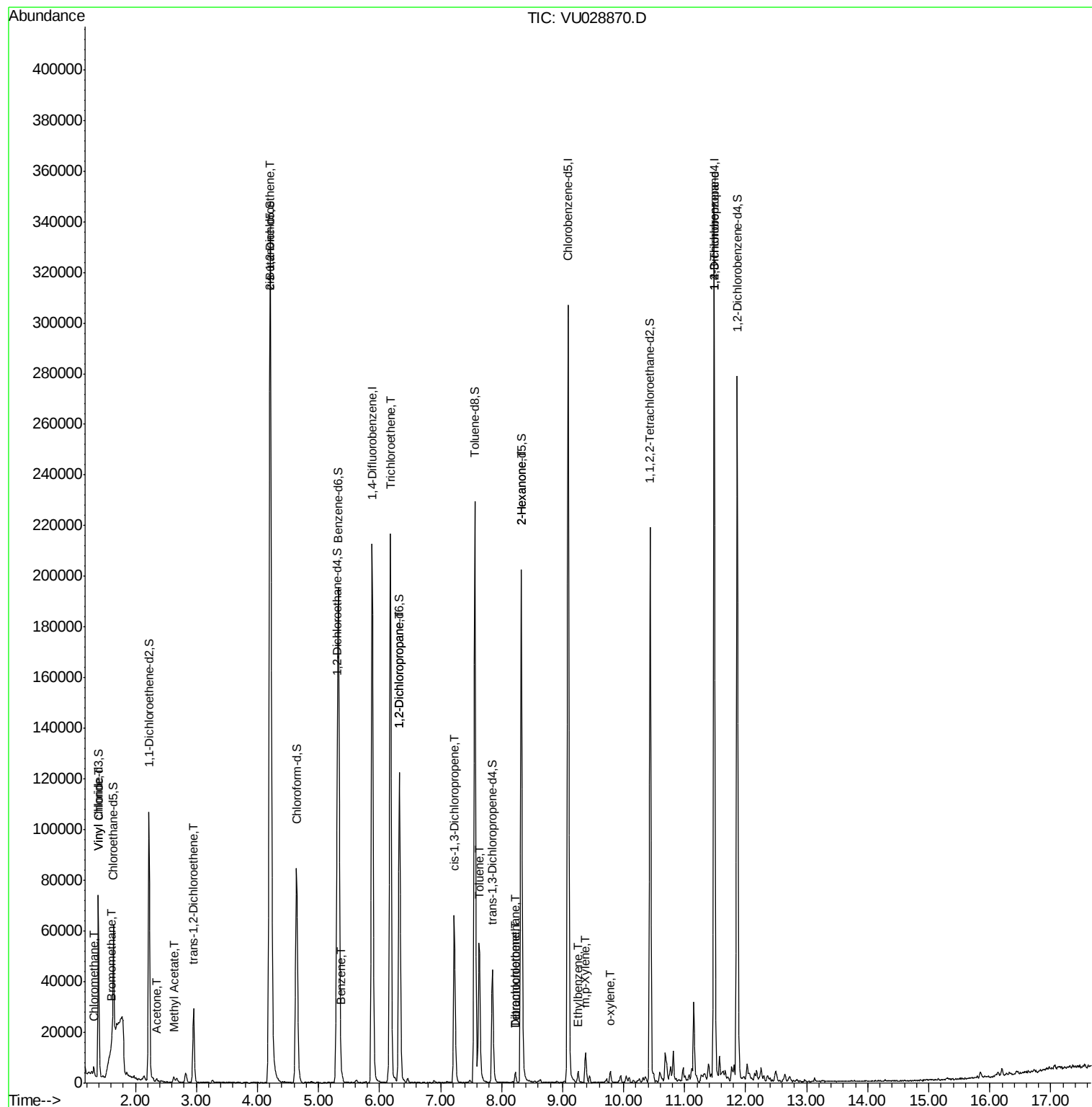
Quant Time: Dec 21 23:31:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 23:27:40 2018
Response via : Initial Calibration

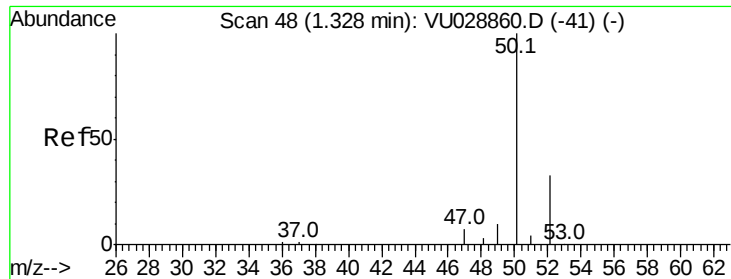
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.78	106	1466	0.615	ug/L	97
59) 1,2,3-Trichloropropane	11.48	75	11529	5.855	ug/L	99

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

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Quant Title : VOC Analysis
QLast Update : Fri Dec 21 23:27:40 2018
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.299 ug/L

RT: 1.32 min Scan# 45

Delta R.T. -0.01 min

Lab File: VU028870.D

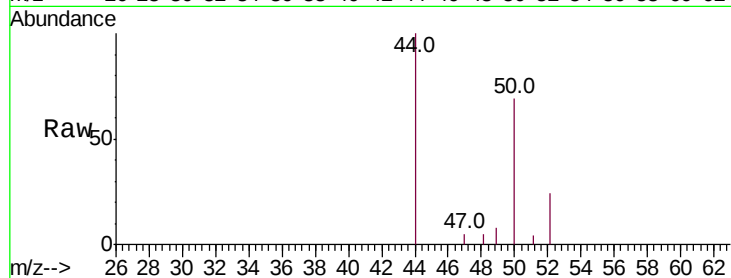
Acq: 21 Dec 2018 13:46

Tot Ion: 50 Resp: 2773

Ion Ratio Lower Upper

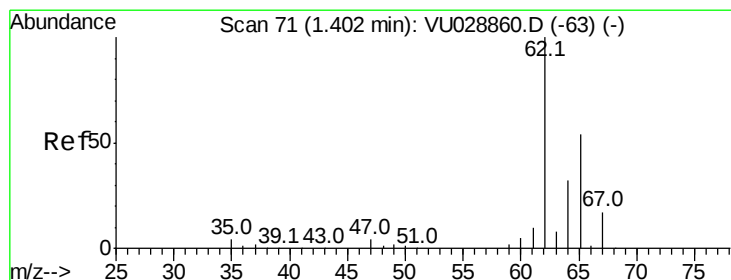
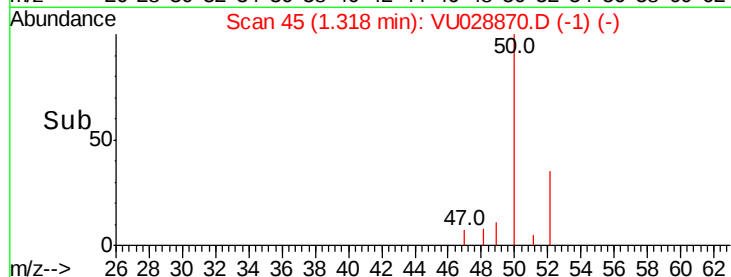
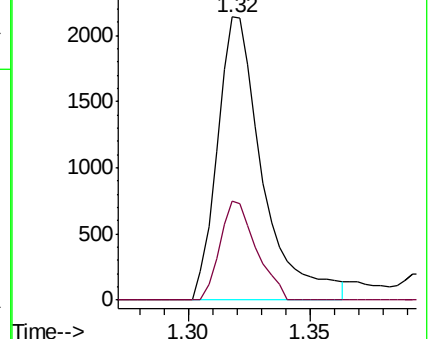
50 100

52 35.2 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#5

Vinyl chloride

Concen: 6.038 ug/L

RT: 1.40 min Scan# 70

Delta R.T. -0.00 min

Lab File: VU028870.D

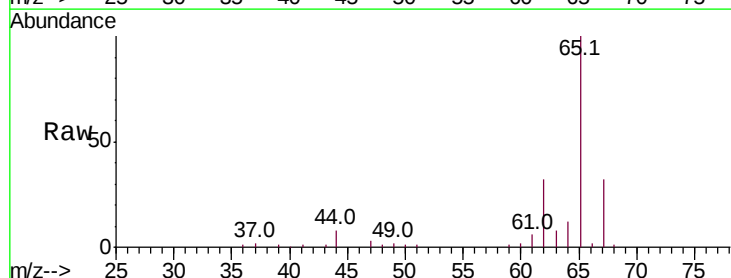
Acq: 21 Dec 2018 13:46

Tgt Ion: 62 Resp: 11382

Ion Ratio Lower Upper

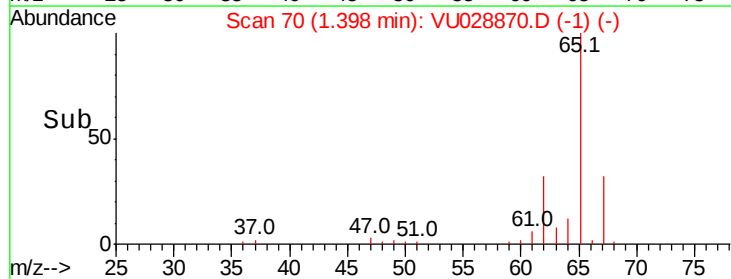
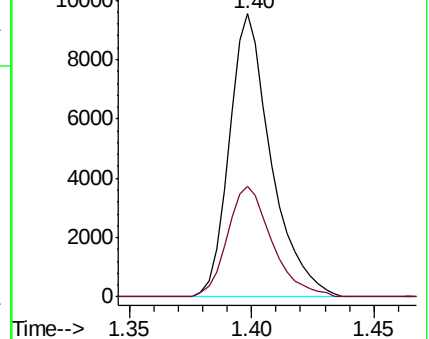
62 100

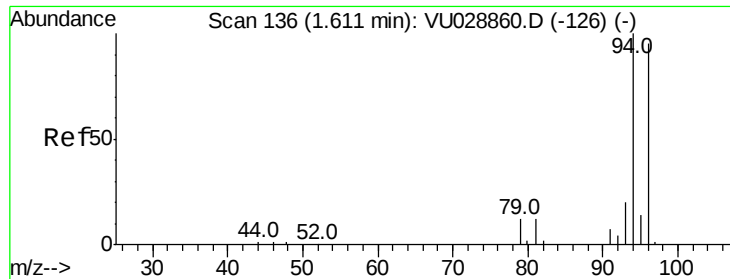
64 39.0 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#6

Bromomethane

Concen: 0.621 ug/L

RT: 1.60 min Scan# 132

Delta R.T. -0.01 min

Lab File: VU028870.D

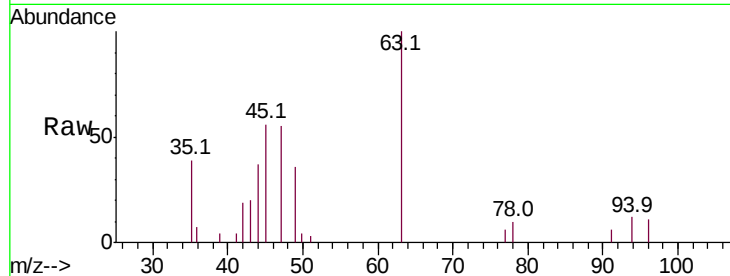
Acq: 21 Dec 2018 13:46

Tot Ion: 94 Resp: 499

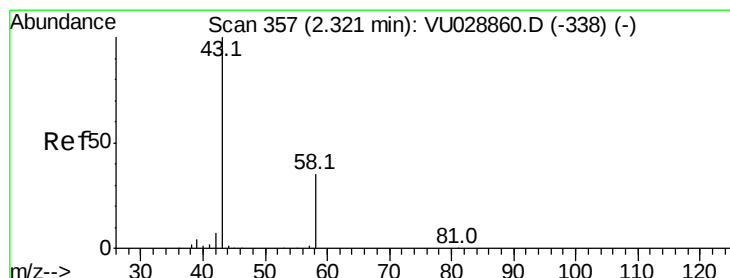
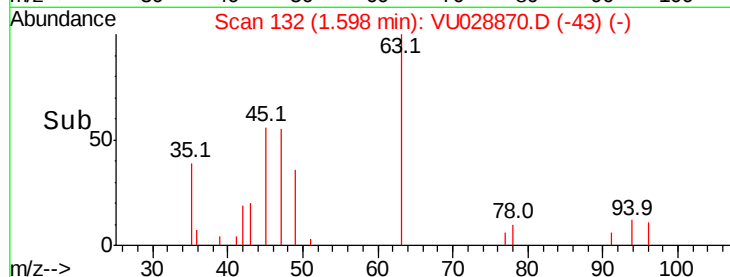
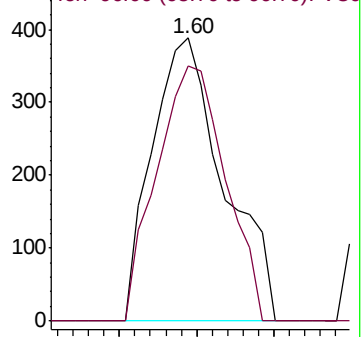
Ion Ratio Lower Upper

94 100

96 90.2 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0



#13

Acetone

Concen: 1.099 ug/L

RT: 2.35 min Scan# 365

Delta R.T. 0.03 min

Lab File: VU028870.D

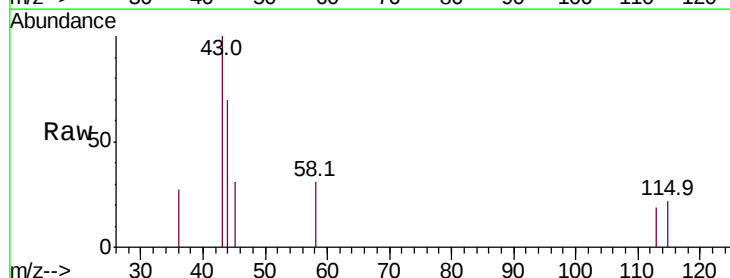
Acq: 21 Dec 2018 13:46

Tgt Ion: 43 Resp: 1211

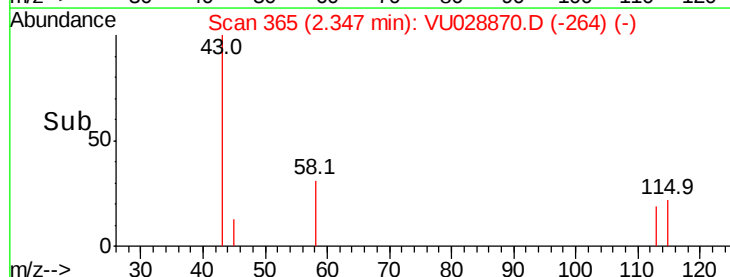
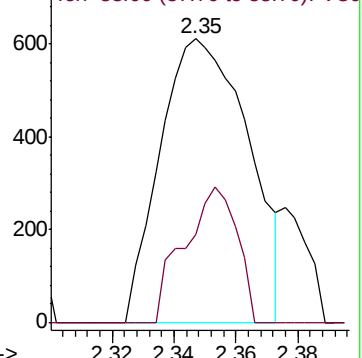
Ion Ratio Lower Upper

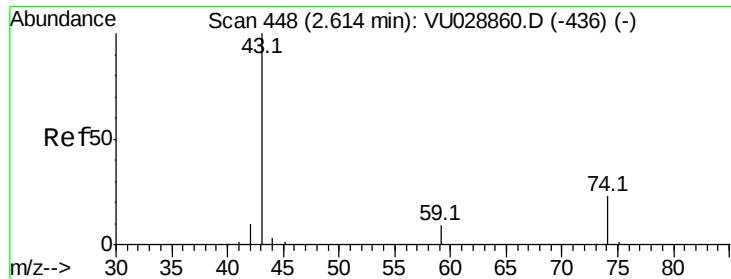
43 100

58 28.7 0.0 70.2



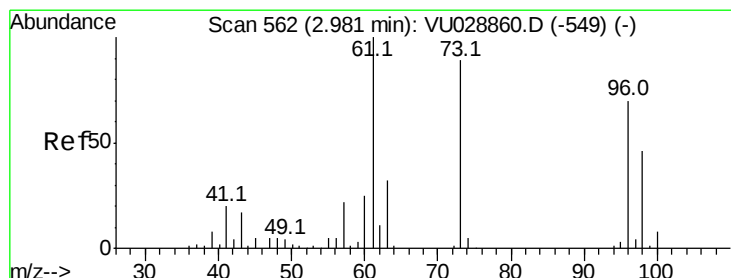
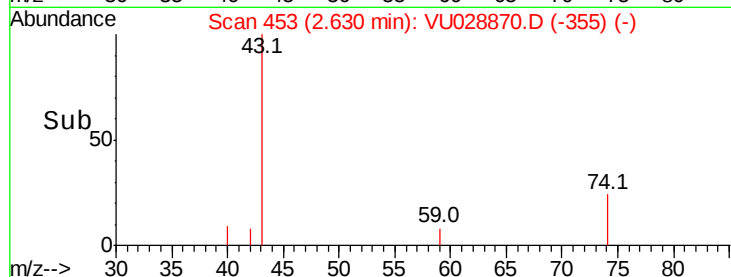
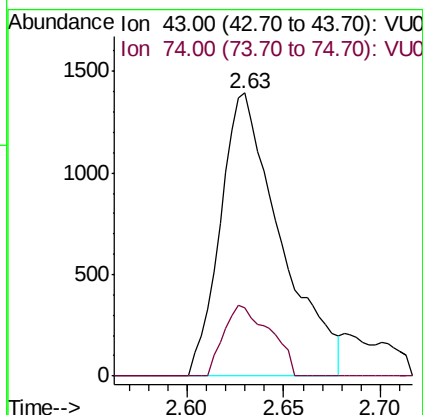
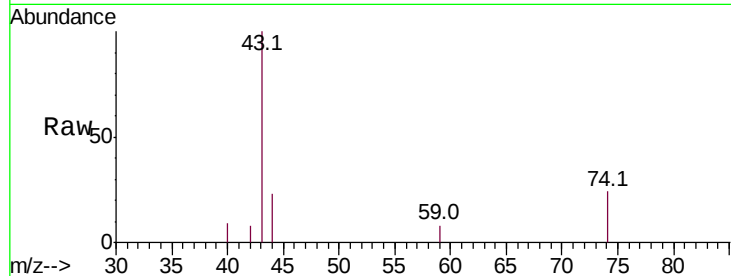
Abundance Ion 43.00 (42.70 to 43.70): VU0





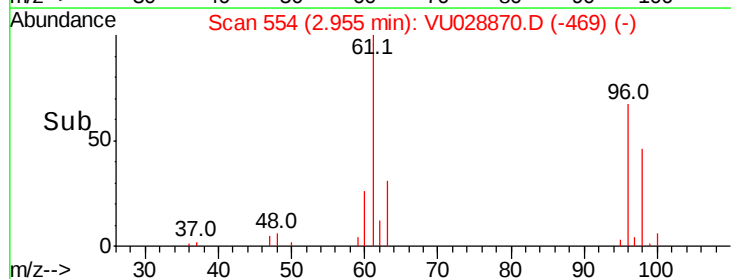
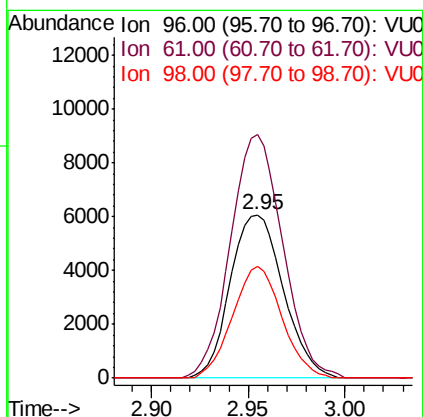
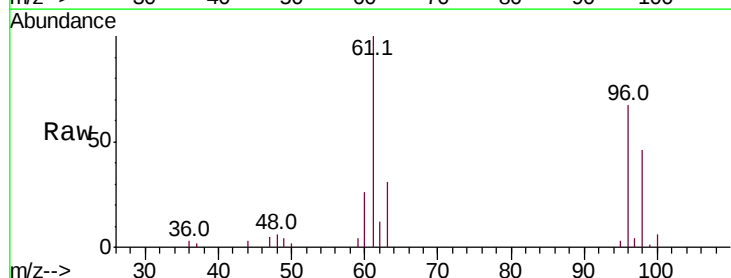
#15
Methvl Acetate
Concen: 1.752 ug/L
RT: 2.63 min Scan# 453
Delta R.T. 0.02 min
Lab File: VU028870.D
Acq: 21 Dec 2018 13:46

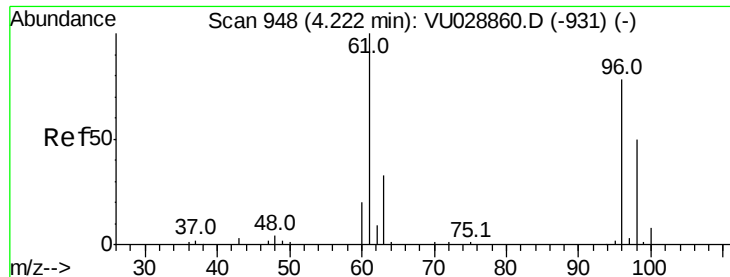
Tot Ion: 43 Resp: 3009
Ion Ratio Lower Upper
43 100
74 19.3 19.0 28.4



#17
trans-1,2-Dichloroethene
Concen: 8.693 ug/L
RT: 2.95 min Scan# 554
Delta R.T. -0.03 min
Lab File: VU028870.D
Acq: 21 Dec 2018 13:46

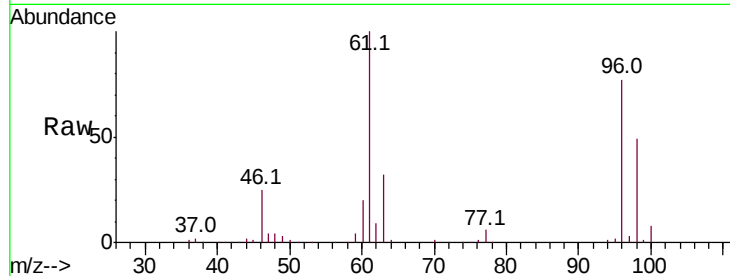
Tgt Ion: 96 Resp: 11622
Ion Ratio Lower Upper
96 100
61 149.3 97.9 181.7
98 68.3 44.1 81.9



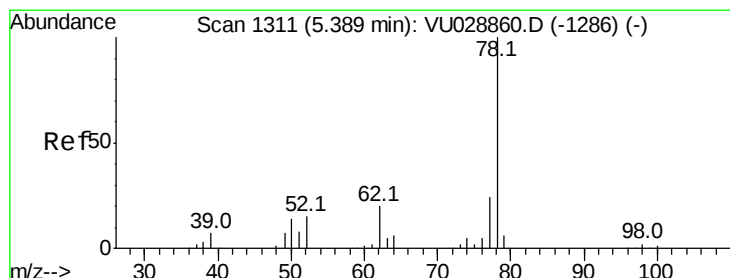
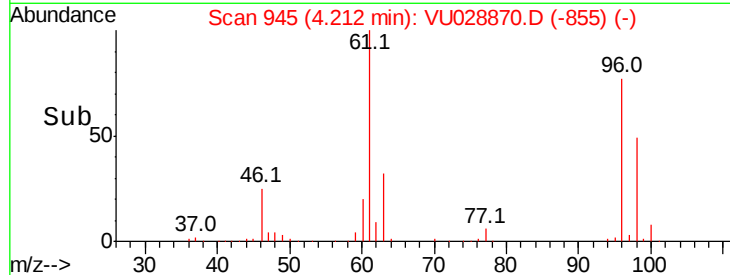
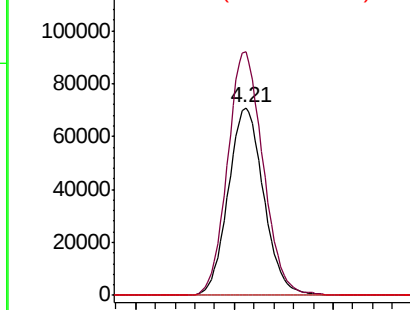


#20
 cis-1,2-Dichloroethene
 Concen: 117.160 ug/L
 RT: 4.21 min Scan# 945
 Delta R.T. -0.01 min
 Lab File: VU028870.D
 Acq: 21 Dec 2018 13:46

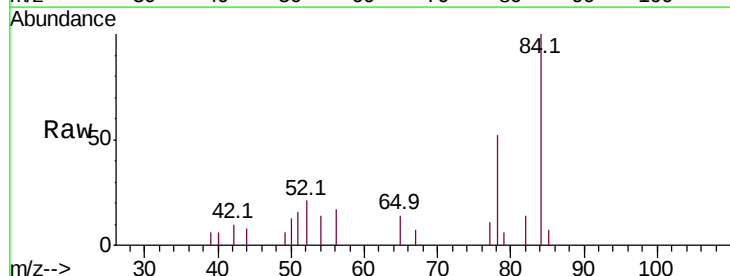
Tot Ion: 96 Resp: 177434
 Ion Ratio Lower Upper
 96 100
 61 129.8 92.1 171.1
 68 0.0 0.0 0.0



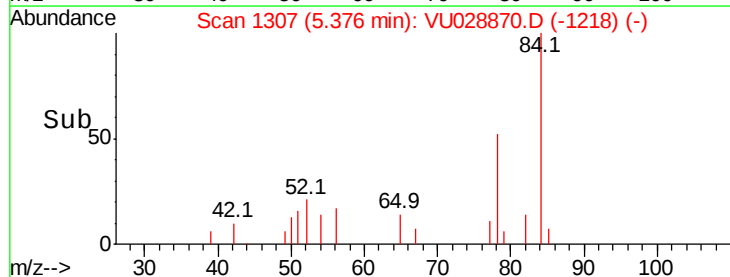
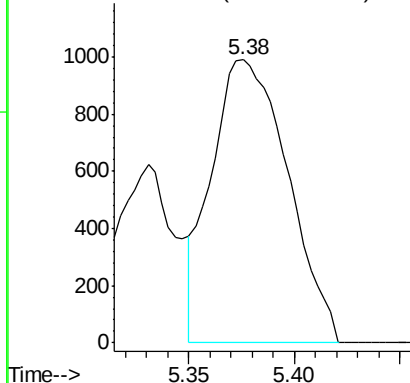
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

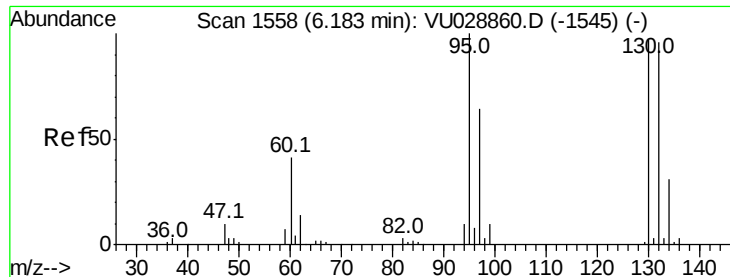


#33
 Benzene
 Concen: 0.423 ug/L
 RT: 5.38 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: VU028870.D
 Acq: 21 Dec 2018 13:46
 Tgt Ion: 78 Resp: 2498



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 56.159 ug/L

RT: 6.18 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VU028870.D

Acq: 21 Dec 2018 13:46

Tot Ion: 95 Resp: 80029

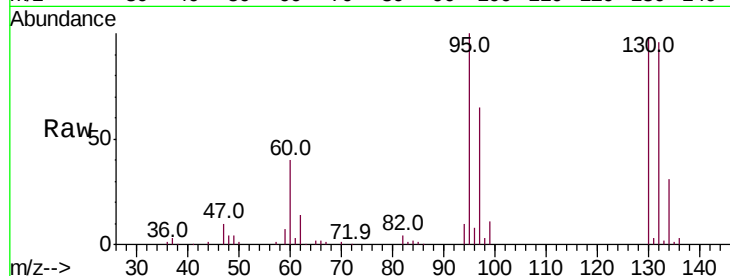
Ion Ratio Lower Upper

95 100

97 65.2 43.3 80.3

132 96.1 64.2 119.2

130 98.1 67.1 124.7

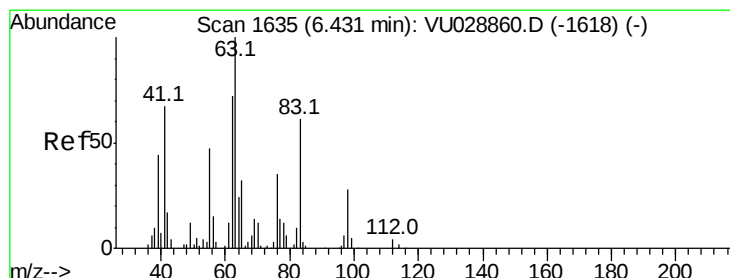
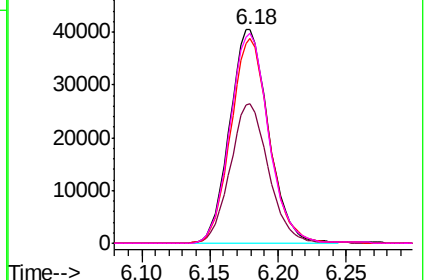
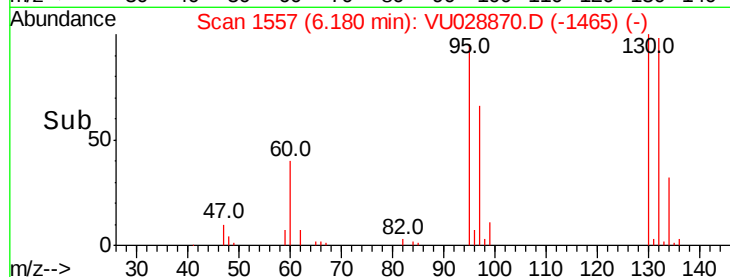


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 3.793 ug/L

RT: 6.33 min Scan# 1603

Delta R.T. -0.10 min

Lab File: VU028870.D

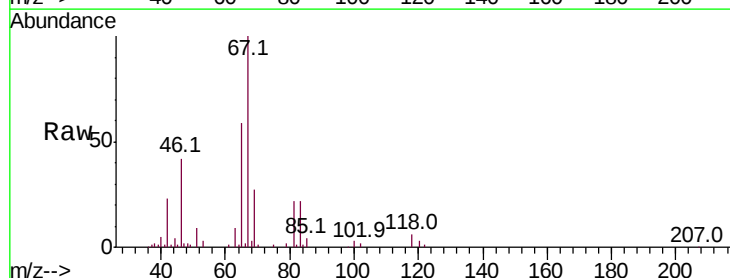
Acq: 21 Dec 2018 13:46

Tgt Ion: 63 Resp: 6259

Ion Ratio Lower Upper

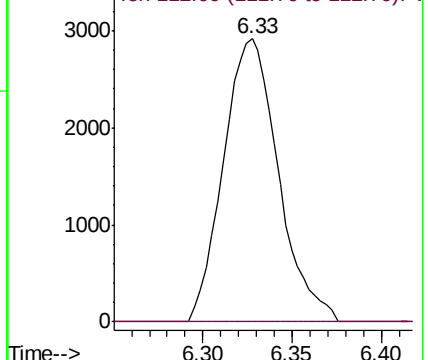
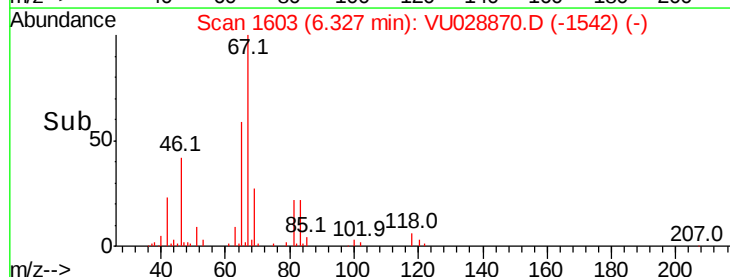
63 100

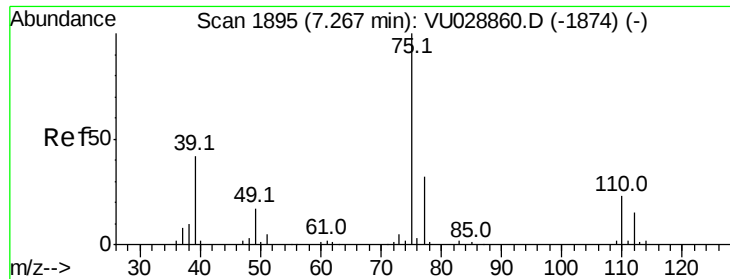
112 2.7 2.7 4.1#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V





#39

cis-1,3-Dichloropropene

Concen: 0.603 ug/L

RT: 7.23 min Scan# 1883

Delta R.T. -0.04 min

Lab File: VU028870.D

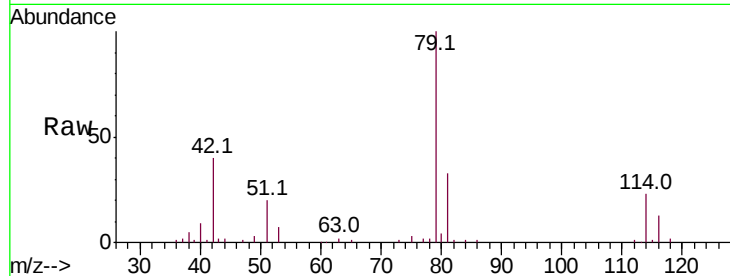
Acq: 21 Dec 2018 13:46

Tot Ion: 75 Resp: 1419

Ion Ratio Lower Upper

75 100

77 58.6 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.23

600

400

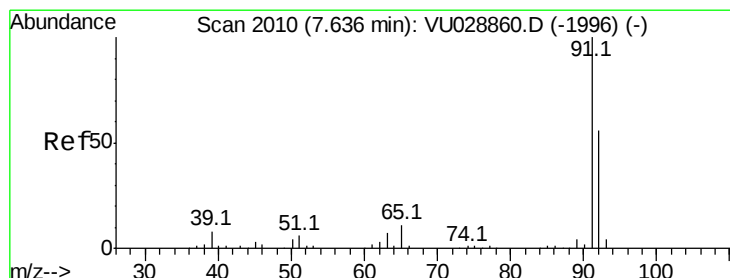
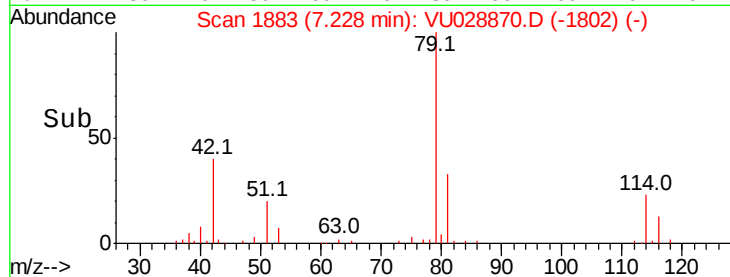
200

0

7.20

7.25

Time-->



#42

Toluene

Concen: 7.320 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028870.D

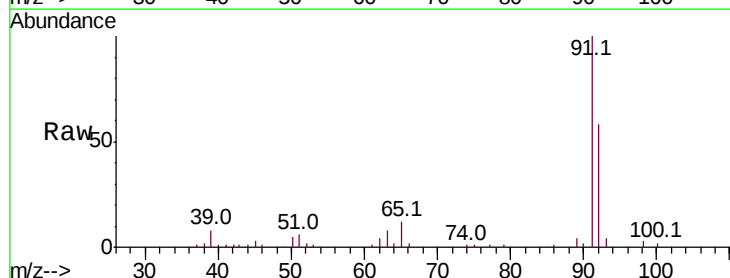
Acq: 21 Dec 2018 13:46

Tgt Ion: 91 Resp: 43799

Ion Ratio Lower Upper

91 100

92 58.3 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

25000

20000

15000

10000

5000

0

7.55

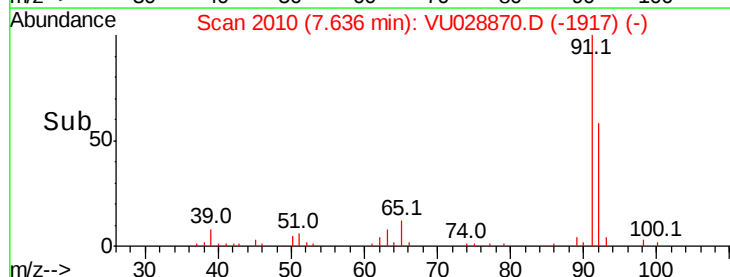
7.60

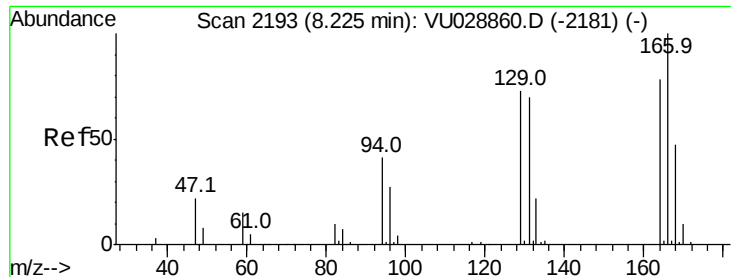
7.65

7.70

7.75

Time-->





#46

Tetrachloroethene

Concen: 0.891 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028870.D

Acq: 21 Dec 2018 13:46

Tot Ion:164 Resp: 978

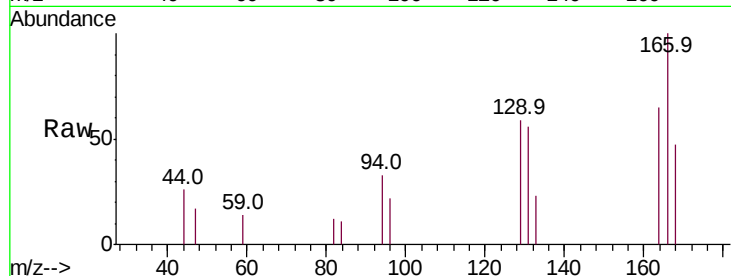
Ion Ratio Lower Upper

164 100

129 90.5 66.8 124.0

131 85.6 64.2 119.2

166 154.0 90.8 168.6

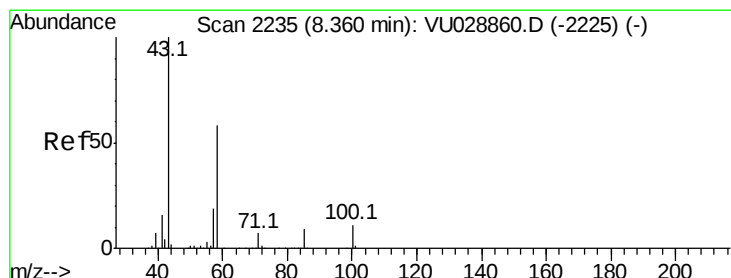
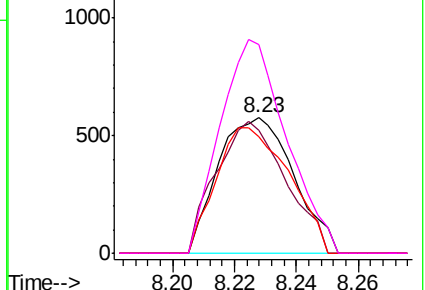
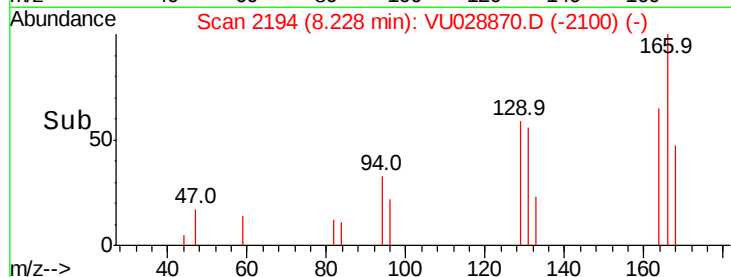


Abundance Ion 164.00 (163.70 to 164.70): V

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: 5.042 ug/L

RT: 8.32 min Scan# 2224

Delta R.T. -0.04 min

Lab File: VU028870.D

Acq: 21 Dec 2018 13:46

Tgt Ion: 43 Resp: 9178

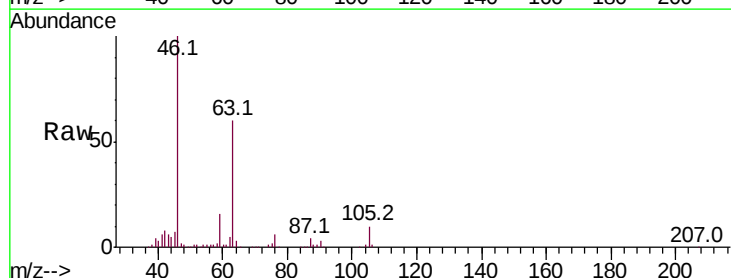
Ion Ratio Lower Upper

43 100

58 25.2 45.9 68.9#

57 24.0 15.0 22.4#

100 0.0 8.7 13.1#

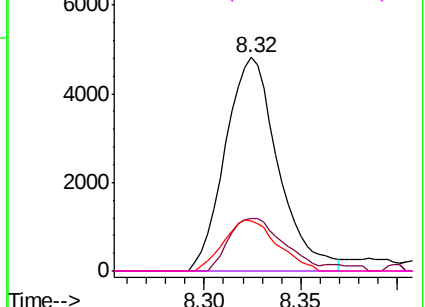
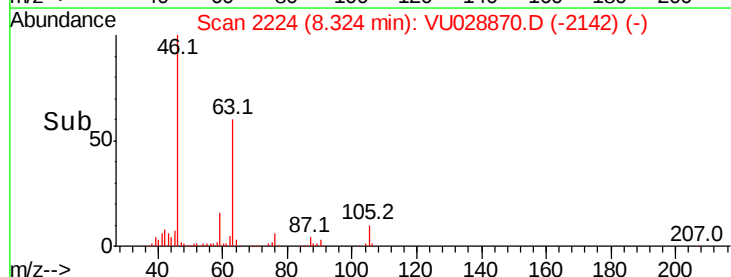


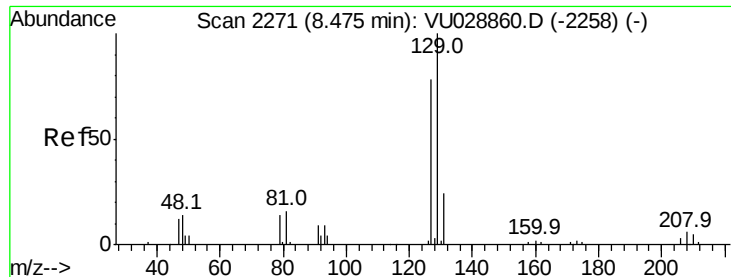
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 0.623 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028870.D

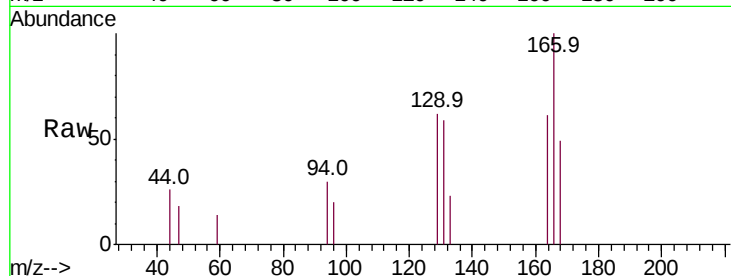
Acq: 21 Dec 2018 13:46

Tot Ion:129 Resp: 876

Ion Ratio Lower Upper

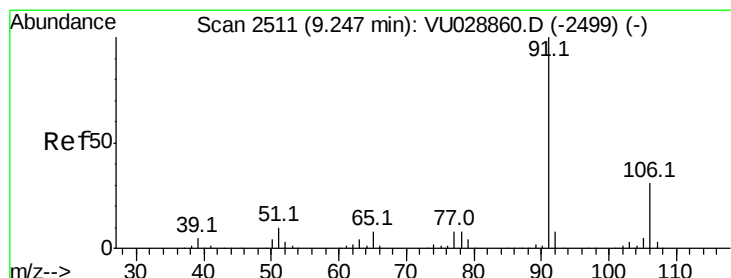
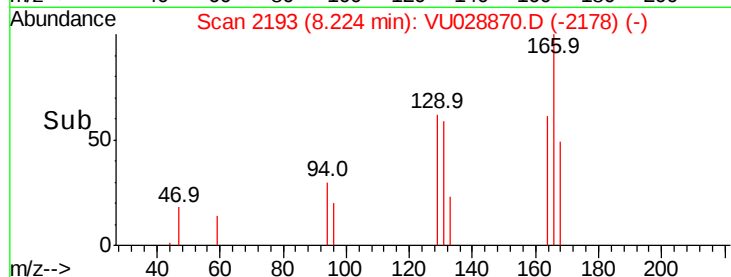
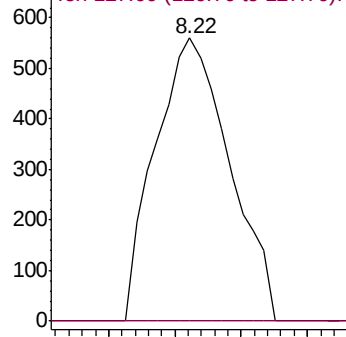
129 100

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



#52

Ethylbenzene

Concen: 0.629 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.01 min

Lab File: VU028870.D

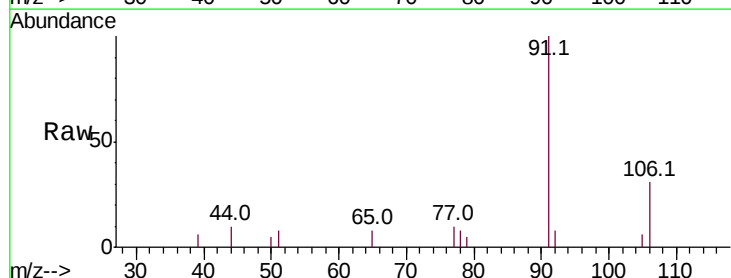
Acq: 21 Dec 2018 13:46

Tgt Ion: 91 Resp: 4046

Ion Ratio Lower Upper

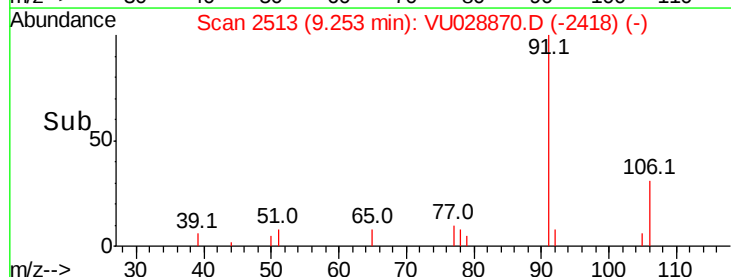
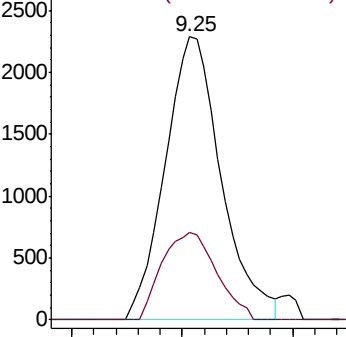
91 100

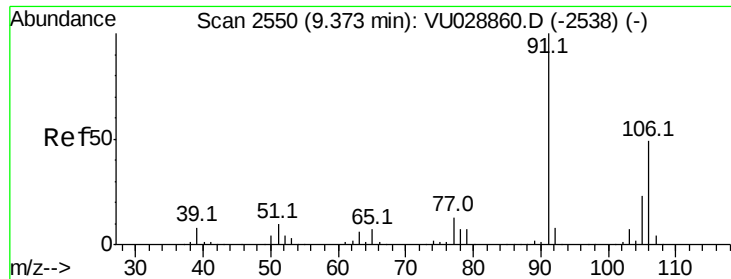
106 30.7 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1.649 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028870.D

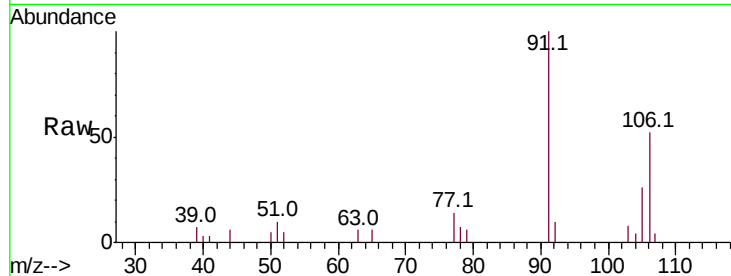
Acq: 21 Dec 2018 13:46

Tot Ion:106 Resp: 3921

Ion Ratio Lower Upper

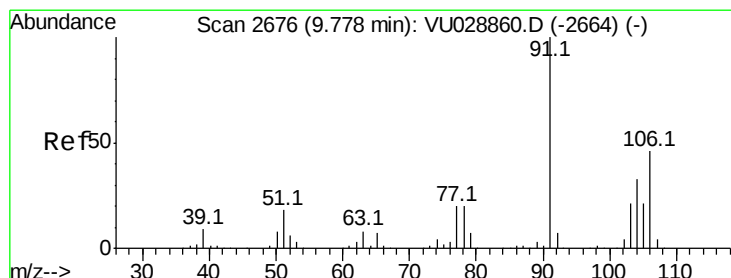
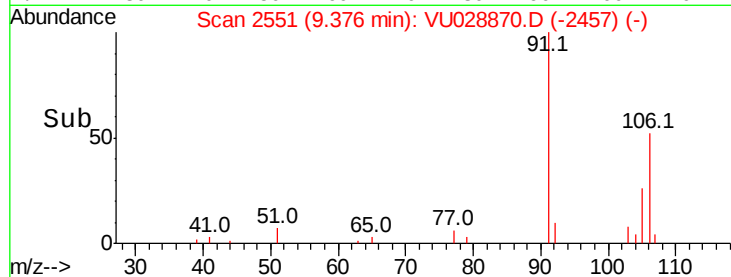
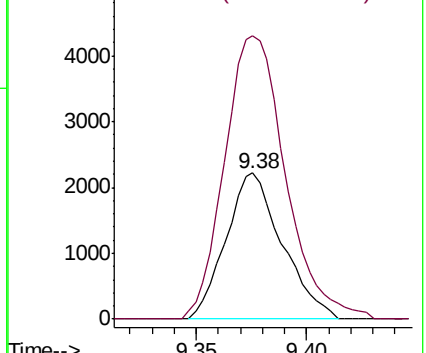
106 100

91 193.8 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 0.615 ug/L

RT: 9.78 min Scan# 2678

Delta R.T. 0.01 min

Lab File: VU028870.D

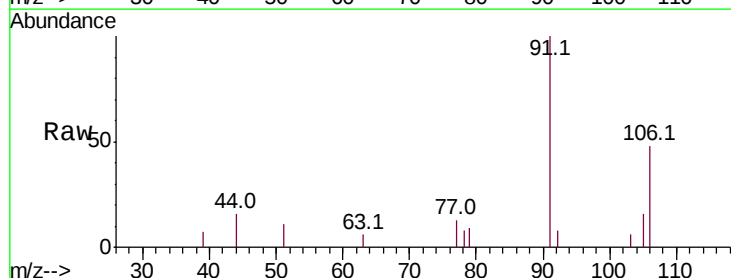
Acq: 21 Dec 2018 13:46

Tgt Ion:106 Resp: 1466

Ion Ratio Lower Upper

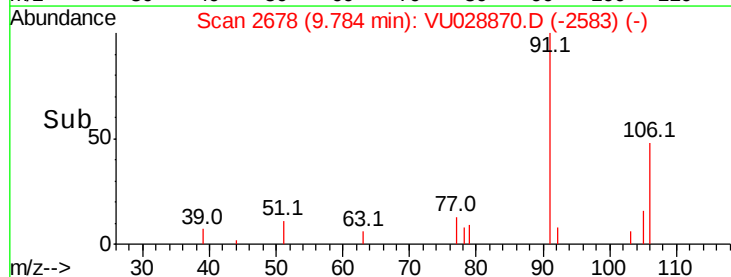
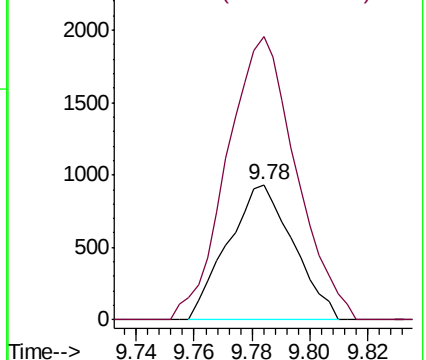
106 100

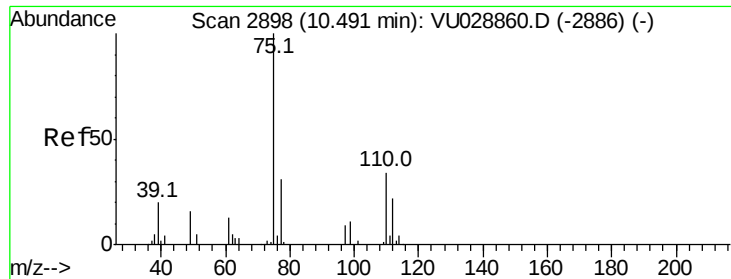
91 209.4 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#59

1,2,3-Trichloropropane

Concen: 5.855 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028870.D

Acq: 21 Dec 2018 13:46

Tot Ion: 75 Resp: 11529

Ion Ratio Lower Upper

75 100

77 32.3 25.5 38.3

