

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122118\
 Data File : VU028874.D
 Acq On : 21 Dec 2018 15:23
 Operator : MD/SY
 Sample : J6468-21DL 20X
 Misc : 6.27g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 21 23:32:04 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	186197	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	179108	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	79282	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	53869	36.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.18%
7) Chloroethane-d5	1.66	69	44581	38.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.34%
11) 1,1-Dichloroethene-d2	2.26	63	71275	28.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.78%#
21) 2-Butanone-d5	4.18	46	110160	105.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.33%
24) Chloroform-d	4.64	84	100572	42.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.70%
26) 1,2-Dichloroethane-d4	5.31	65	64958	44.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.78%
32) Benzene-d6	5.34	84	216281	42.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.48%
36) 1,2-Dichloropropane-d6	6.33	67	77512	45.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.18%
41) Toluene-d8	7.56	98	189344	41.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.58%
43) trans-1,3-Dichloropropene-	7.85	79	32690	42.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.88%
47) 2-Hexanone-d5	8.31	63	86338	105.75	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.75%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	110098	46.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.34%
64) 1,2-Dichlorobenzene-d4	11.86	152	72456	45.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.38%

Target Compounds

					Ovalue
3) Chloromethane	1.33	50	1362	0.660 ug/L	89
8) Chloroethane	1.40	64	714	0.686 ug/L #	1
20) cis-1,2-Dichloroethene	4.22	96	1635	1.116 ug/L	86
27) 1,2-Dichloroethane	5.33	62	960	0.540 ug/L #	74
34) Trichloroethene	6.19	95	1708	1.241 ug/L	89
37) 1,2-Dichloropropane	6.33	63	7346	4.609 ug/L #	63
39) cis-1,3-Dichloropropene	7.23	75	1584	0.697 ug/L #	62
42) Toluene	7.64	91	10795	1.868 ug/L	95
44) trans-1,3-Dichloropropene	7.85	75	1282	0.633 ug/L #	79
52) Ethylbenzene	9.25	91	225143	36.250 ug/L	97
53) m,p-Xylene	9.37	106	337005	146.734 ug/L	98
54) o-xylene	9.78	106	132020	57.353 ug/L	99
55) Styrene	9.77	104	6707	1.720 ug/L #	1
56) Isopropylbenzene	10.17	105	4633	0.793 ug/L	97
59) 1,2,3-Trichloropropane	11.48	75	9598	5.046 ug/L	94

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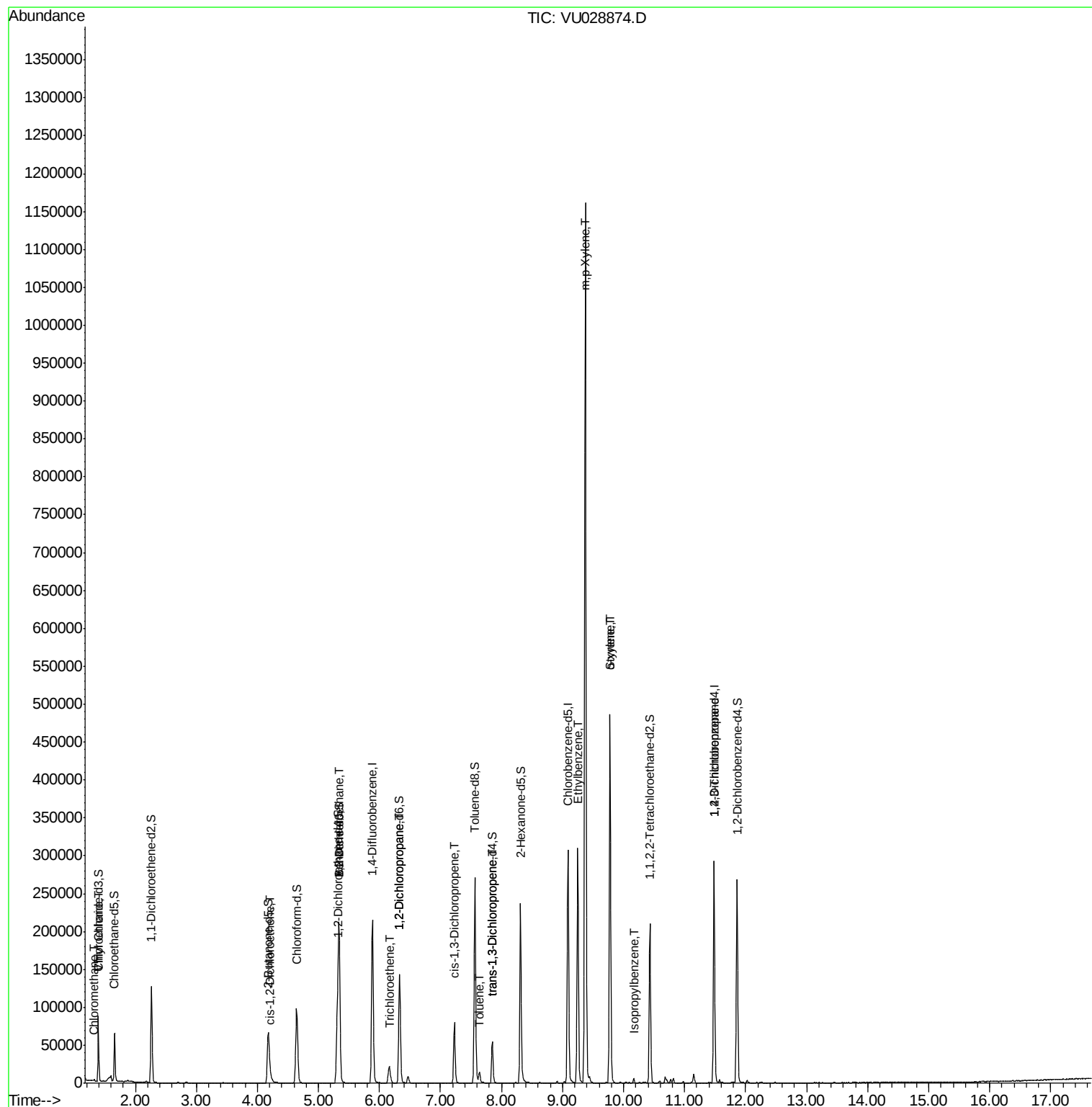
Quant Time: Dec 21 23:32:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 23:27:40 2018
Response via : Initial Calibration

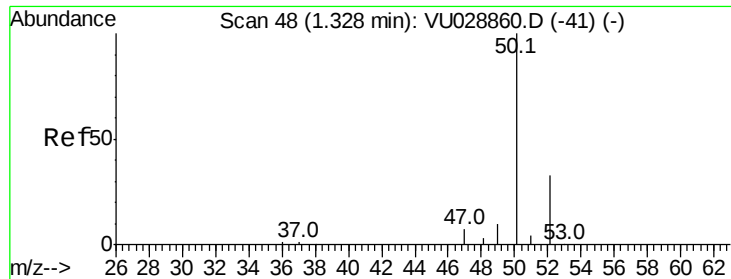
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

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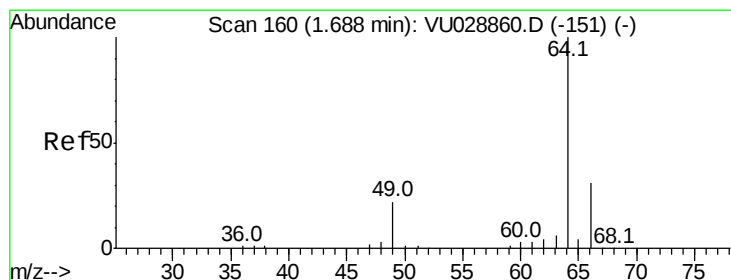
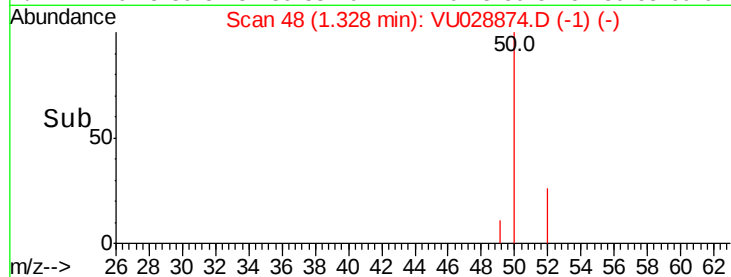
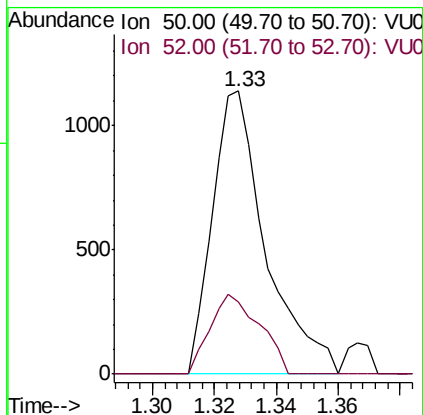
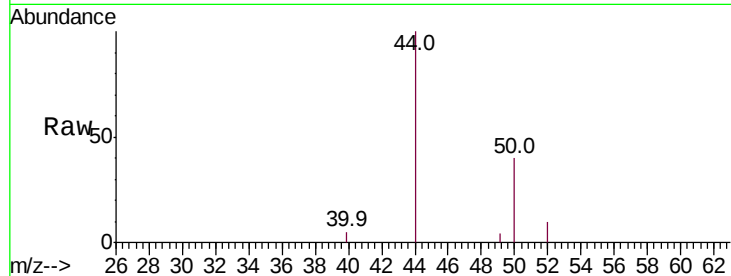
Quant Time: Dec 21 23:32:04 2018
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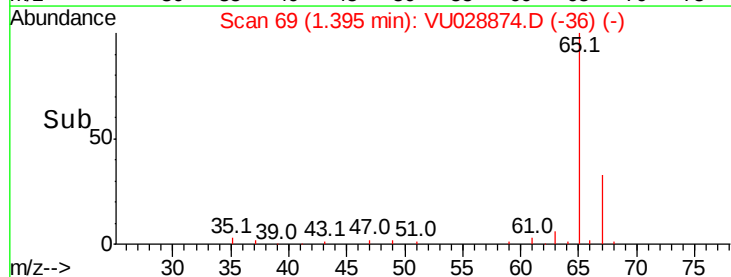
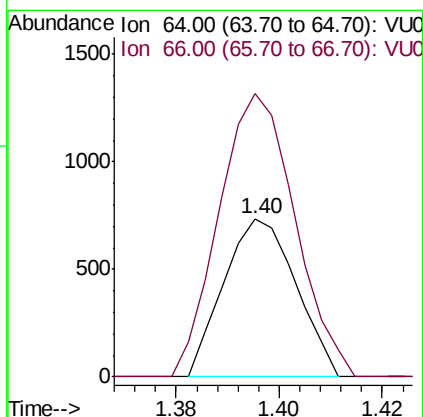
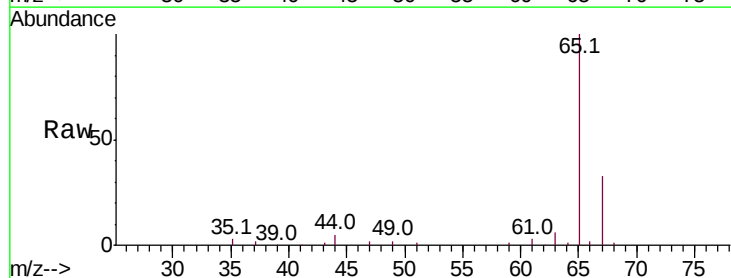
#3
Chloromethane
Concen: 0.660 ug/L
RT: 1.33 min Scan# 48
Delta R.T. -0.00 min
Lab File: VU028874.D
Acq: 21 Dec 2018 15:23

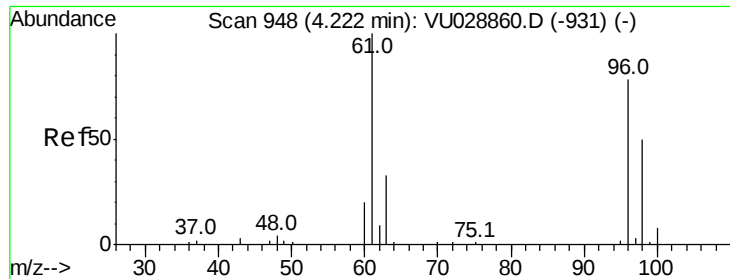
Tot Ion: 50 Resp: 1362
Ion Ratio Lower Upper
50 100
52 25.7 22.3 41.3



#8
Chloroethane
Concen: 0.686 ug/L
RT: 1.40 min Scan# 69
Delta R.T. -0.29 min
Lab File: VU028874.D
Acq: 21 Dec 2018 15:23

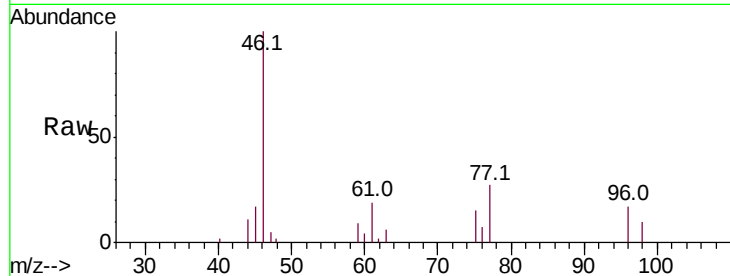
Tgt Ion: 64 Resp: 714
Ion Ratio Lower Upper
64 100
66 178.8 21.5 39.9#



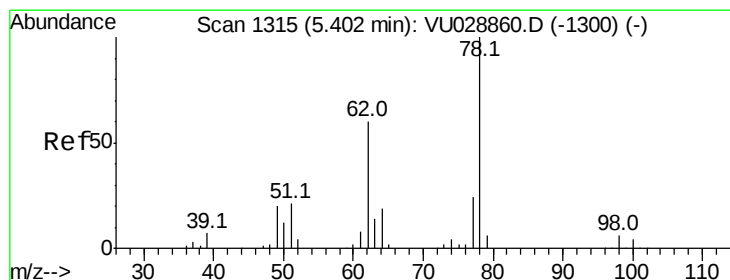
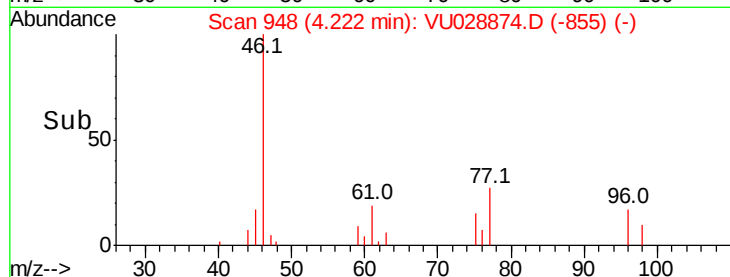
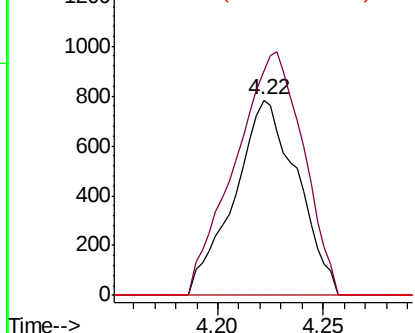


#20
 cis-1,2-Dichloroethene
 Concen: 1.116 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: VU028874.D
 Acq: 21 Dec 2018 15:23

Tot Ion: 96 Resp: 1635
 Ion Ratio Lower Upper
 96 100
 61 114.9 92.1 171.1
 68 0.0 0.0 0.0

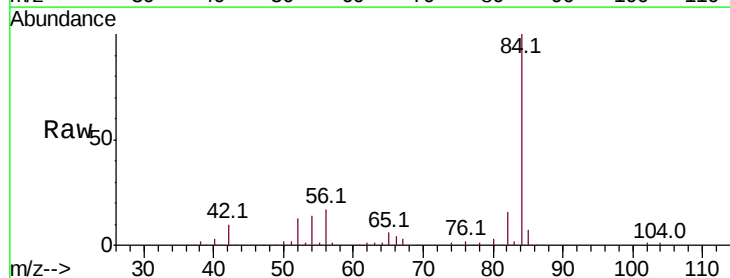


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

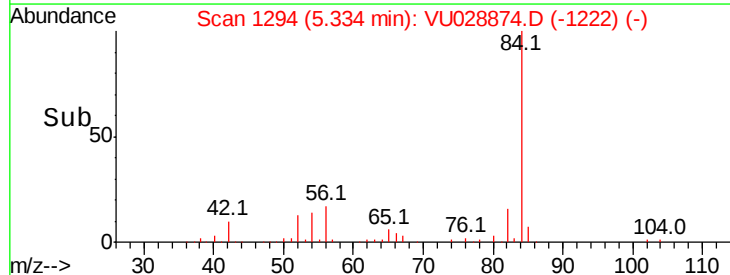
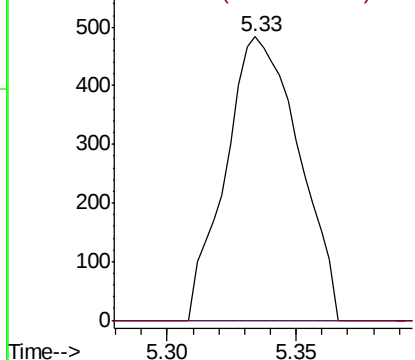


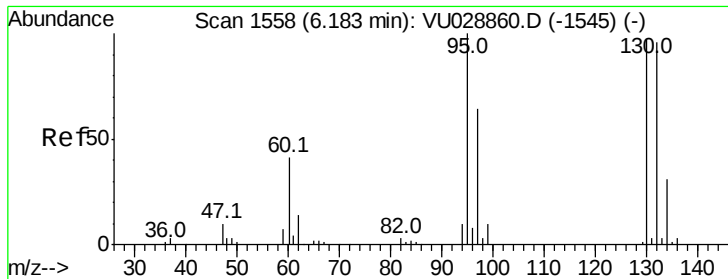
#27
 1,2-Dichloroethane
 Concen: 0.540 ug/L
 RT: 5.33 min Scan# 1294
 Delta R.T. -0.07 min
 Lab File: VU028874.D
 Acq: 21 Dec 2018 15:23

Tgt Ion: 62 Resp: 960
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#34

Trichloroethene

Concen: 1.241 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028874.D

Acq: 21 Dec 2018 15:23

Tot Ion: 95 Resp: 1708

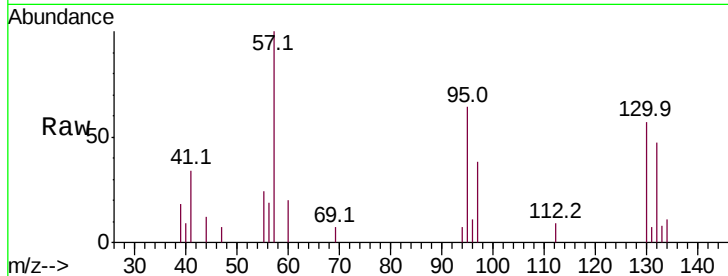
Ion Ratio Lower Upper

95 100

97 59.2 43.3 80.3

132 73.6 64.2 119.2

130 88.4 67.1 124.7

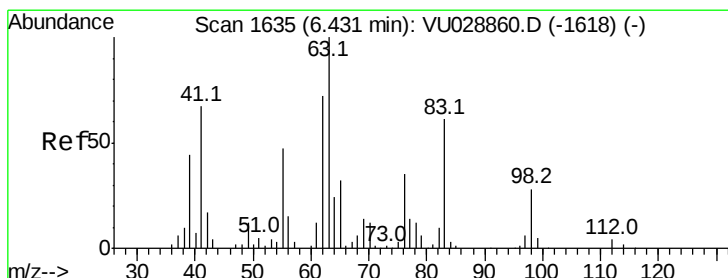
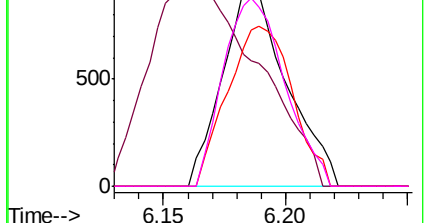
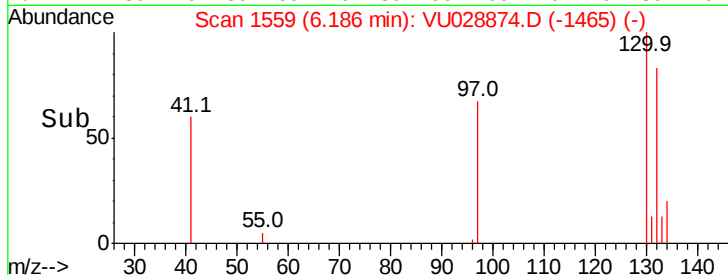


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.609 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.10 min

Lab File: VU028874.D

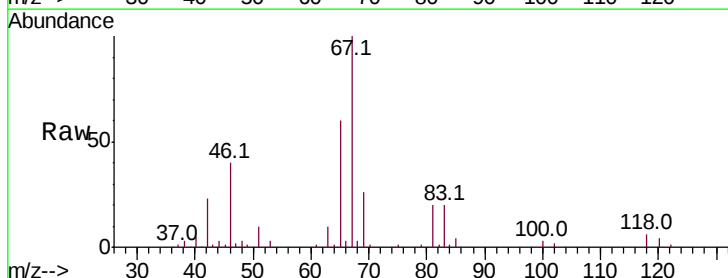
Acq: 21 Dec 2018 15:23

Tgt Ion: 63 Resp: 7346

Ion Ratio Lower Upper

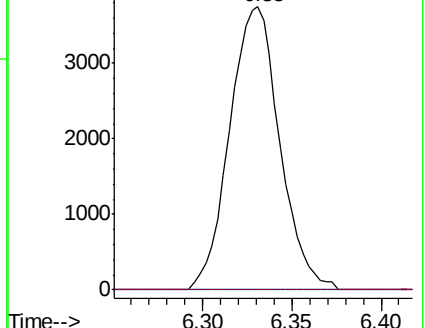
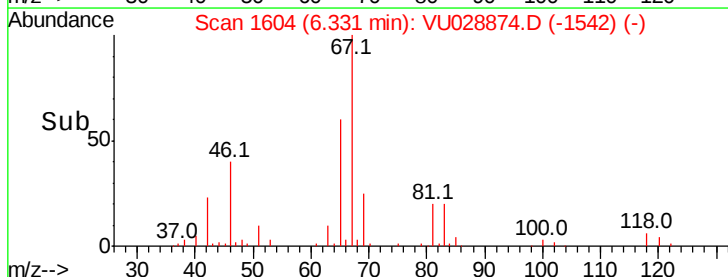
63 100

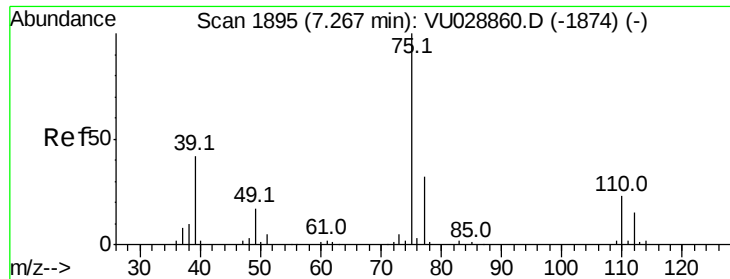
112 15.6 2.7 4.1#



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: 0.697 ug/L

RT: 7.23 min Scan# 1883

Delta R.T. -0.04 min

Lab File: VU028874.D

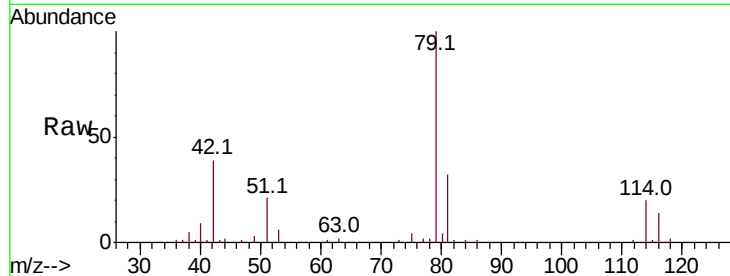
Acq: 21 Dec 2018 15:23

Tot Ion: 75 Resp: 1584

Ion Ratio Lower Upper

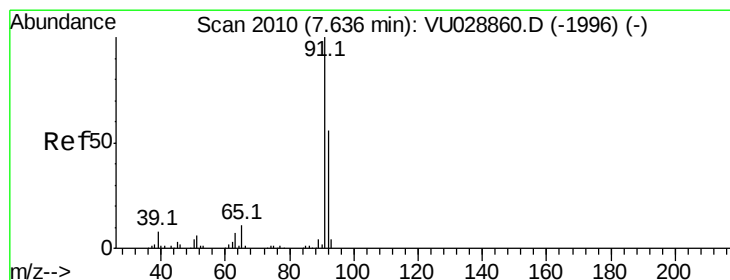
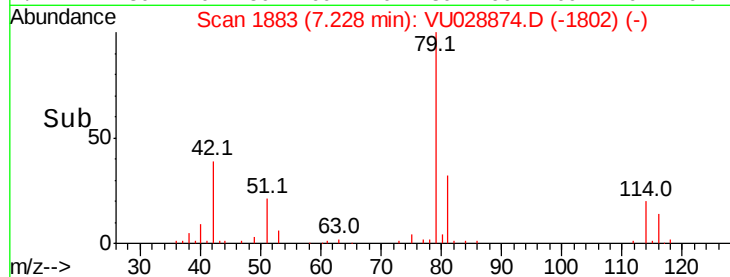
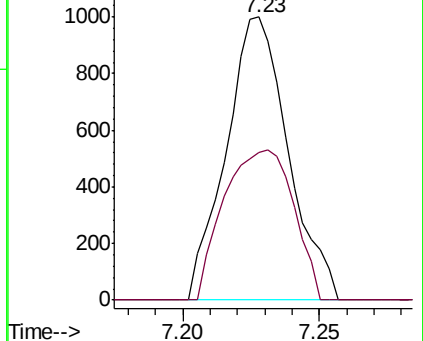
75 100

77 52.0 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#42

Toluene

Concen: 1.868 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028874.D

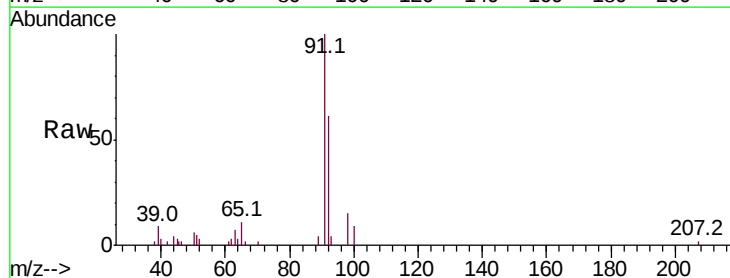
Acq: 21 Dec 2018 15:23

Tgt Ion: 91 Resp: 10795

Ion Ratio Lower Upper

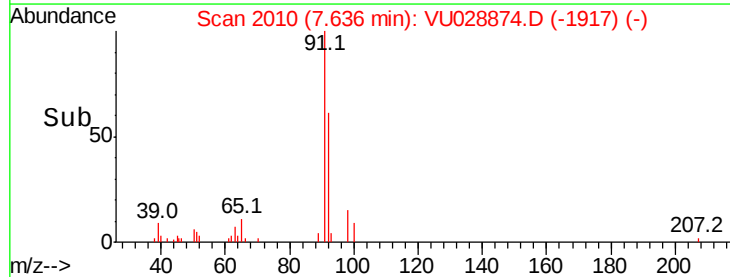
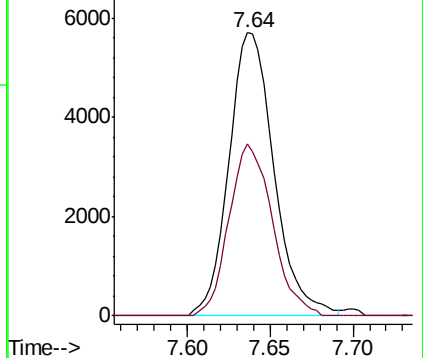
91 100

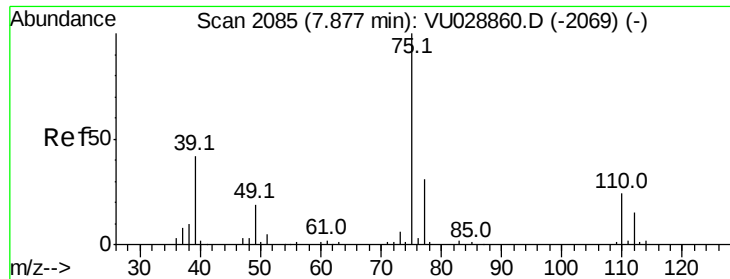
92 60.6 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.633 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU028874.D

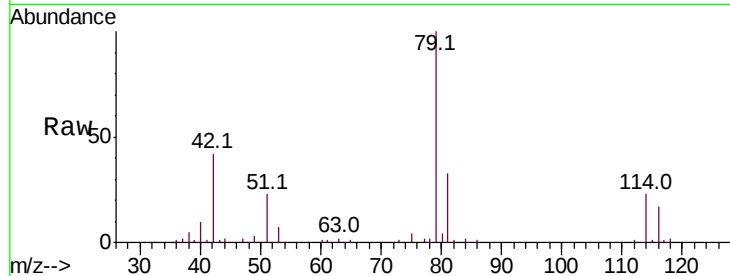
Acq: 21 Dec 2018 15:23

Tot Ion: 75 Resp: 1282

Ion Ratio Lower Upper

75 100

77 42.6 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.85

600

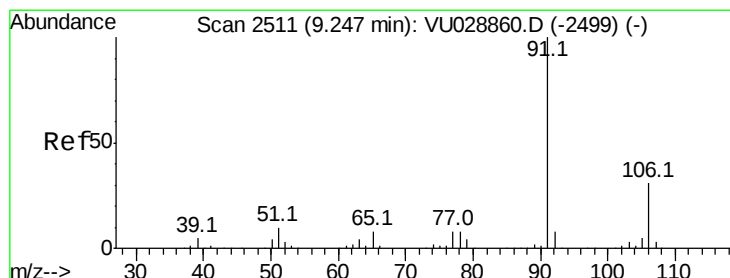
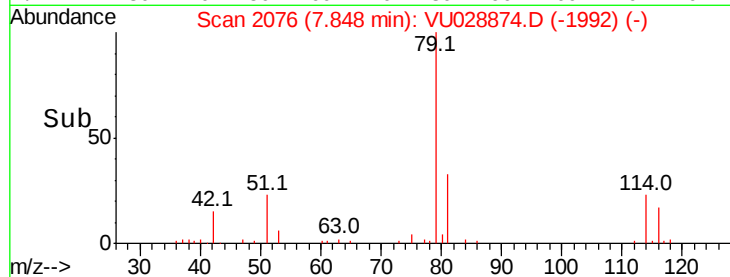
400

200

0

7.82 7.84 7.86 7.88

Time-->



#52

Ethylbenzene

Concen: 36.250 ug/L

RT: 9.25 min Scan# 2511

Delta R.T. -0.00 min

Lab File: VU028874.D

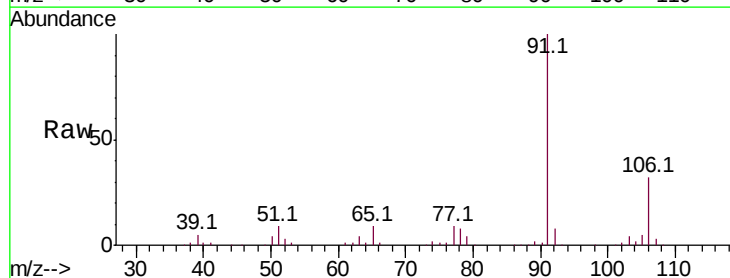
Acq: 21 Dec 2018 15:23

Tgt Ion: 91 Resp: 225143

Ion Ratio Lower Upper

91 100

106 31.6 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

400000

300000

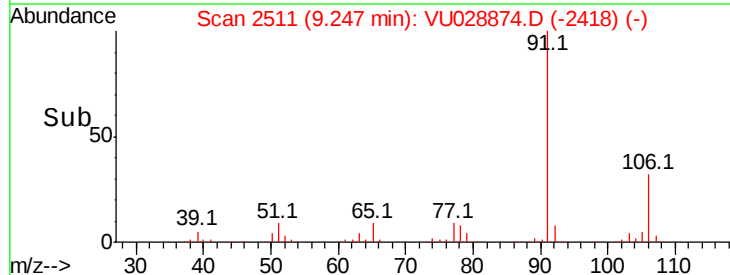
200000

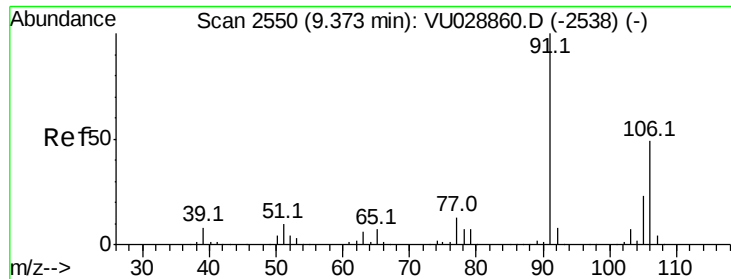
100000

0

9.15 9.20 9.25 9.30 9.35

Time-->





#53

m,p-Xylene

Concen: 146.734 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028874.D

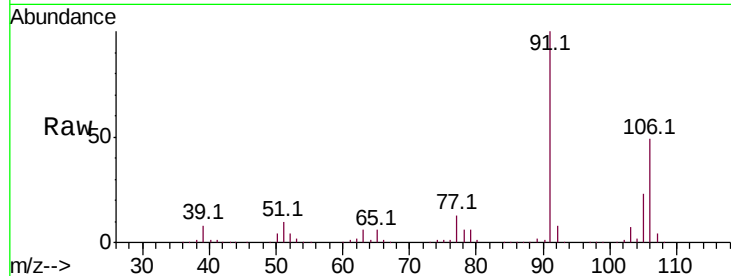
Acq: 21 Dec 2018 15:23

Tot Ion:106 Resp: 337005

Ion Ratio Lower Upper

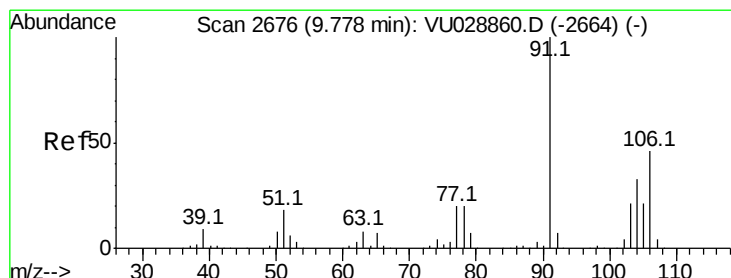
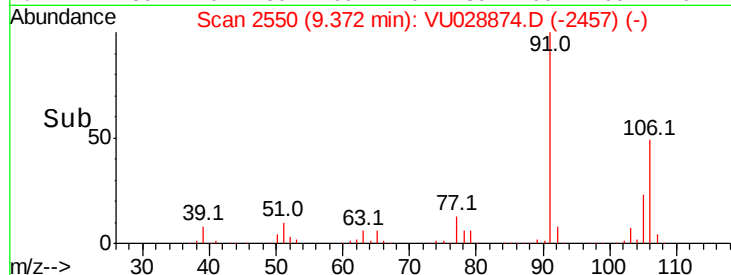
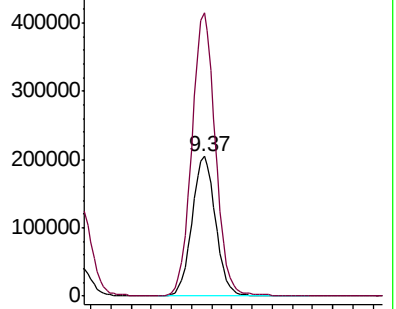
106 100

91 202.7 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 57.353 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028874.D

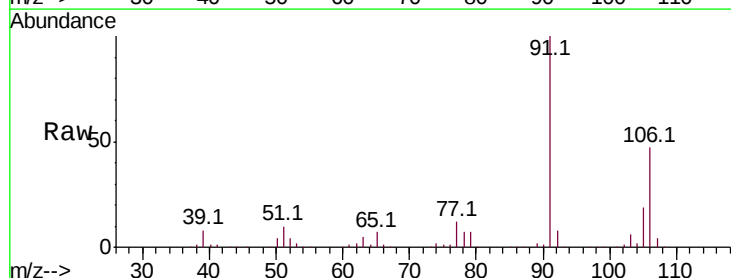
Acq: 21 Dec 2018 15:23

Tgt Ion:106 Resp: 132020

Ion Ratio Lower Upper

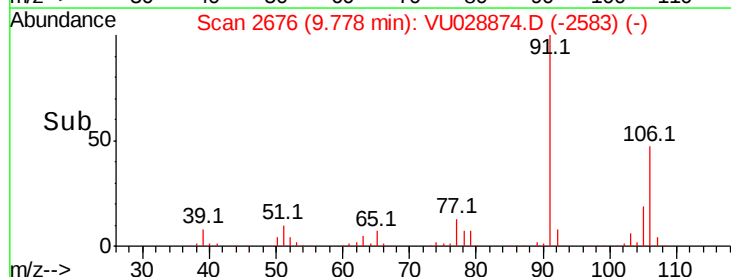
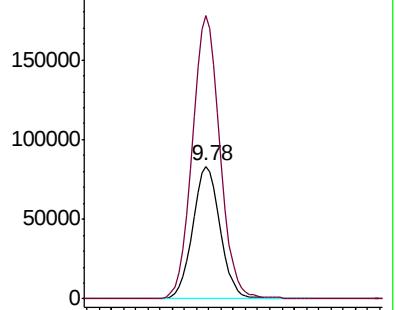
106 100

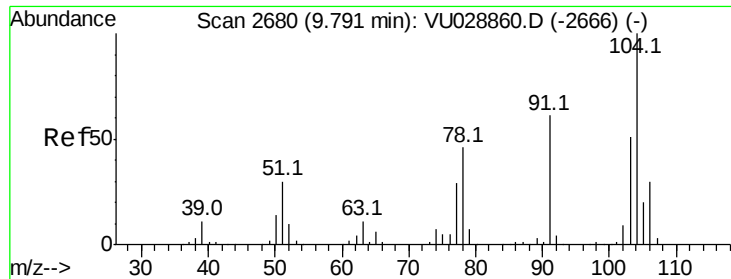
91 213.1 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Stvrene

Concen: 1.720 ug/L

RT: 9.77 min Scan# 2675

Delta R.T. -0.02 min

Lab File: VU028874.D

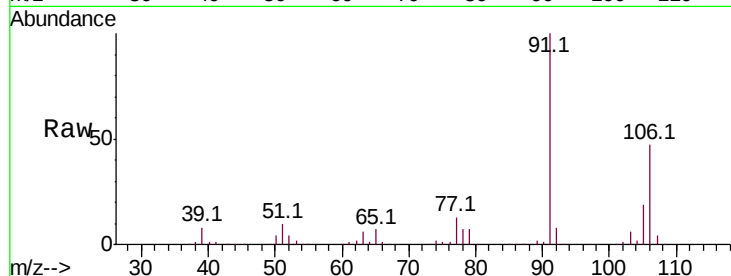
Acq: 21 Dec 2018 15:23

Tot Ion:104 Resp: 6707

Ion Ratio Lower Upper

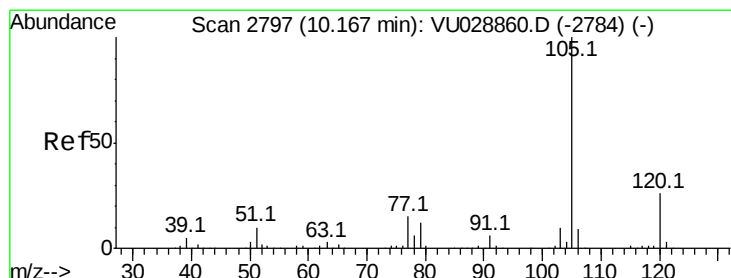
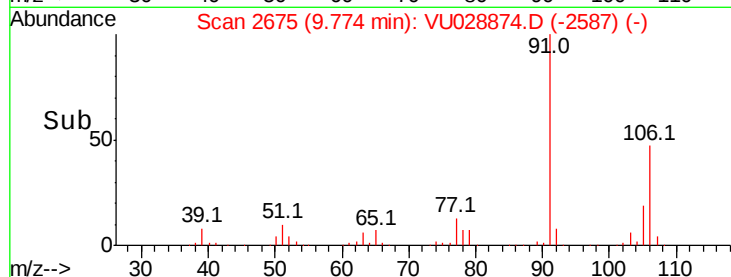
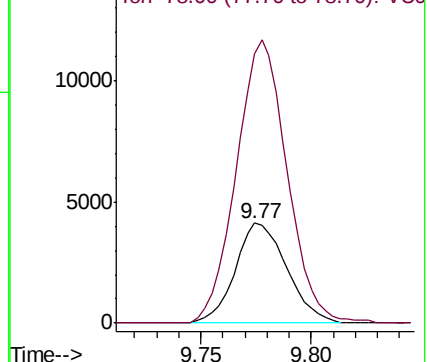
104 100

78 270.2 31.3 58.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 0.793 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028874.D

Acq: 21 Dec 2018 15:23

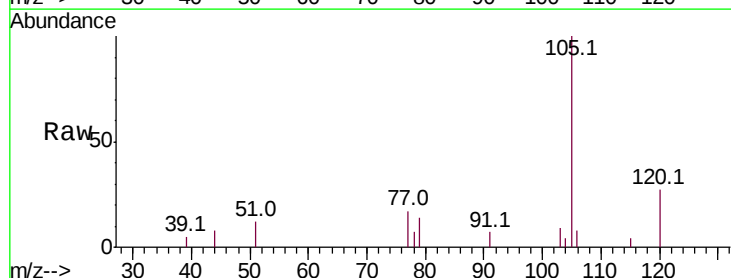
Tgt Ion:105 Resp: 4633

Ion Ratio Lower Upper

105 100

120 24.5 21.4 32.2

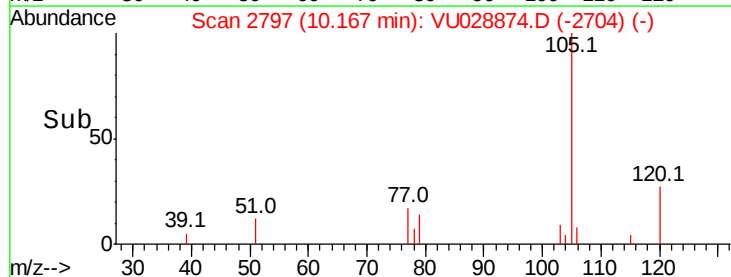
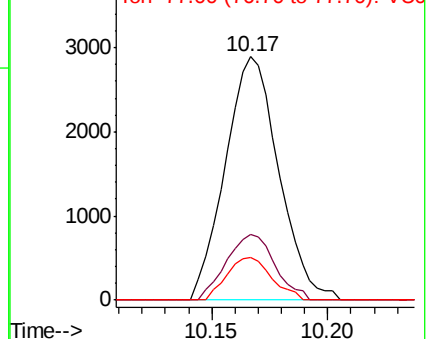
77 14.7 12.3 18.5

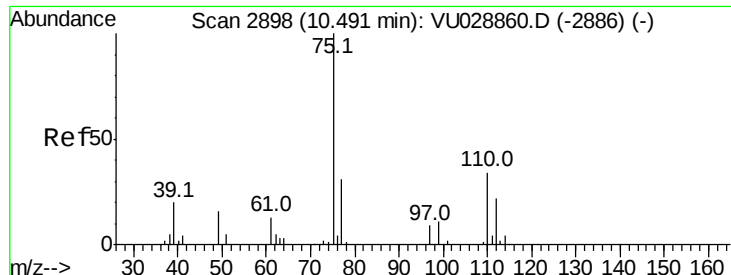


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#59

1,2,3-Trichloropropane
 Concen: 5.046 ug/L
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.99 min
 Lab File: VU028874.D
 Acq: 21 Dec 2018 15:23

Tot Ion: 75 Resp: 9598
 Ion Ratio Lower Upper
 75 100
 77 35.4 25.5 38.3

