

Data File : VU028848.D
Acq On : 21 Dec 2018 00:44
Operator : MD/SY
Sample : J6513-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F9F55

Quant Time: Dec 21 06:02:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 05:57:29 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	211233	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	201783	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	92416	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	72191	42.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.26%
7) Chloroethane-d5	1.67	69	68701	52.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.04%
11) 1,1-Dichloroethene-d2	2.27	63	87365	30.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.36%
21) 2-Butanone-d5	4.17	46	140532	118.45	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.45%
24) Chloroform-d	4.65	84	103476	38.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.72%
26) 1,2-Dichloroethane-d4	5.31	65	73176	44.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.16%
32) Benzene-d6	5.34	84	256593	45.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.02%
36) 1,2-Dichloropropane-d6	6.33	67	89993	46.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.94%
41) Toluene-d8	7.57	98	244213	47.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.54%
43) trans-1,3-Dichloropropene-	7.85	79	43352	49.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.92%
47) 2-Hexanone-d5	8.31	63	120169	130.65	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	130.65%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	133752	49.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.56%
64) 1,2-Dichlorobenzene-d4	11.86	152	88338	47.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.52%

Target Compounds

						Qvalue
3) Chloromethane	1.45	50	285564	121.925	ug/L	86
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	802	0.586	ug/L #	24
13) Acetone	2.30	43	74707	61.786	ug/L	45
15) Methyl Acetate	2.63	43	271066	143.798	ug/L #	52
16) Methylene chloride	2.64	84	79819	47.789	ug/L #	2
22) 2-Butanone	4.27	43	7379	5.012	ug/L	77
25) Chloroform	4.68	83	5107	1.881	ug/L #	70
27) 1,2-Dichloroethane	5.40	62	127005	62.947	ug/L #	78
29) Cyclohexane	5.00	56	1771311	659.553	ug/L	99
33) Benzene	5.40	78	16395262	2552.193	ug/L	100
34) Trichloroethene	6.22	95	11107	7.162	ug/L #	18
35) Methylcyclohexane	6.41	83	906929	351.103	ug/L	96
37) 1,2-Dichloropropane	6.41	63	9190	5.118	ug/L #	87
39) cis-1,3-Dichloropropene	7.24	75	4657	1.819	ug/L #	73
40) 4-Methyl-2-pentanone	7.46	43	3823	1.584	ug/L #	86
42) Toluene	7.64	91	8418430	1292.760	ug/L	98
44) trans-1,3-Dichloropropene	7.85	75	1611	0.706	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Fri Dec 21 05:57:29 2018
Response via : Initial Calibration

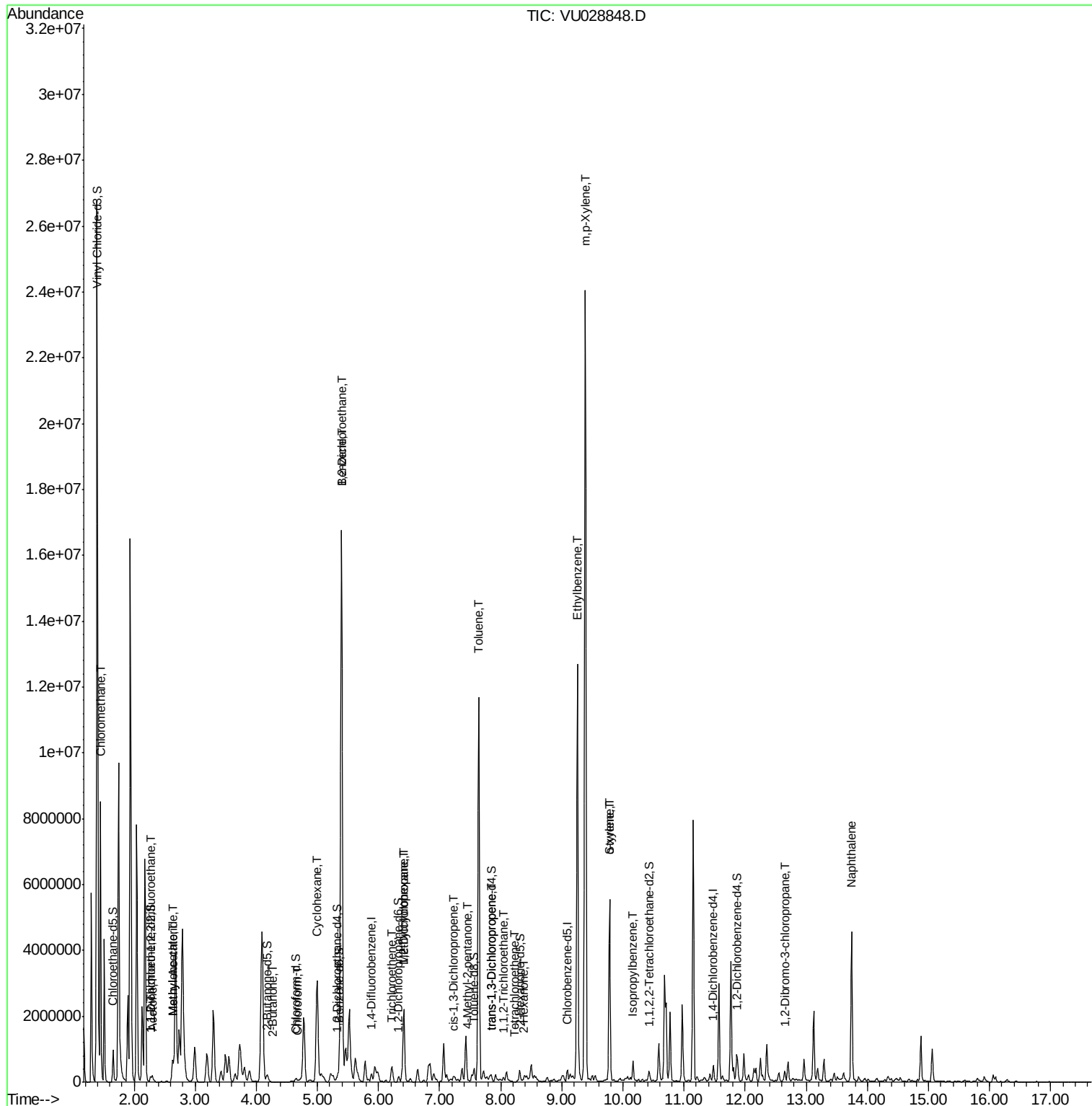
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.04	97	36925	24.049	ug/L #	18
46) Tetrachloroethene	8.22	164	519	0.435	ug/L	86
48) 2-Hexanone	8.37	43	8532	4.307	ug/L #	51
52) Ethylbenzene	9.25	91	8930515	1276.301	ug/L	97
53) m,p-Xylene	9.39	106	7156775	2765.930	ug/L	91
54) o-xylene	9.78	106	1511179	582.721	ug/L	99
55) Styrene	9.78	104	82361	18.752	ug/L #	1
56) Isopropylbenzene	10.16	105	395159	60.067	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	1256	2.378	ug/L #	1
69) Naphthalene	13.74	128	3470347	551.456	ug/L	100

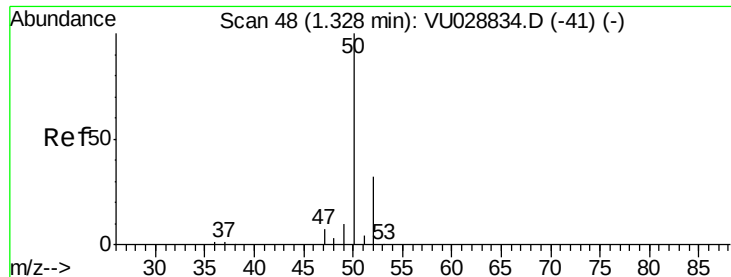
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 121.925 ug/L

RT: 1.45 min Scan# 86

Delta R.T. 0.12 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

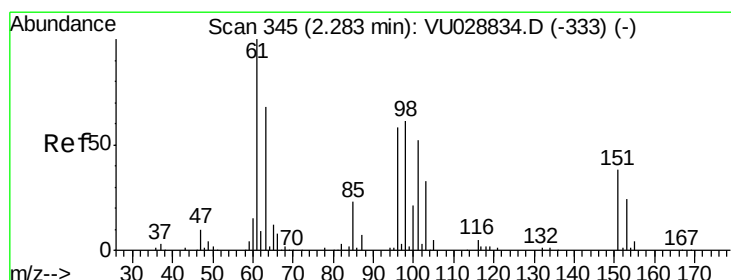
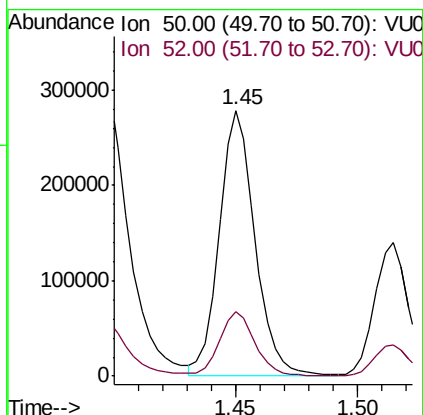
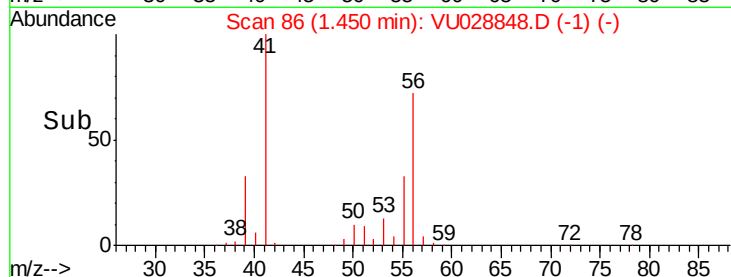
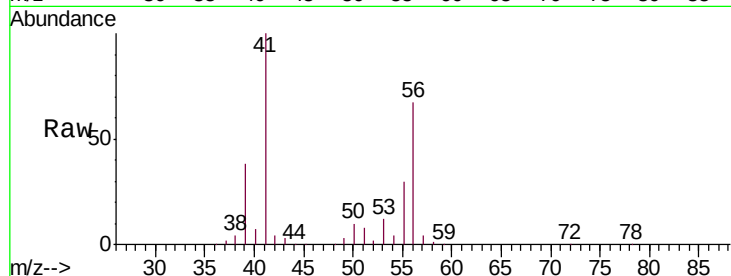
F9F55

Tgt Ion: 50 Resp: 285564

Ion Ratio Lower Upper

50 100

52 24.2 22.3 41.3



#10

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

Concen: 0.586 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

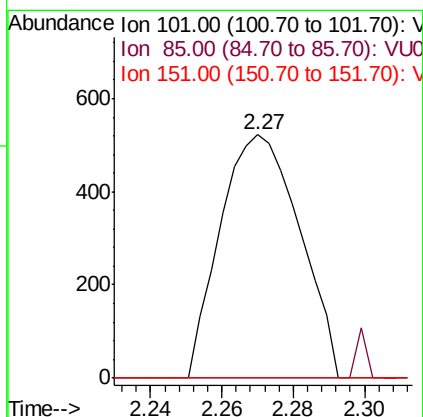
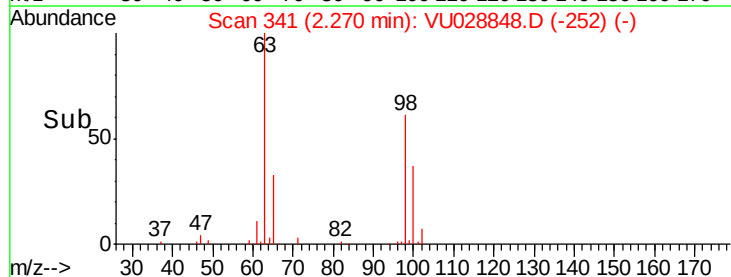
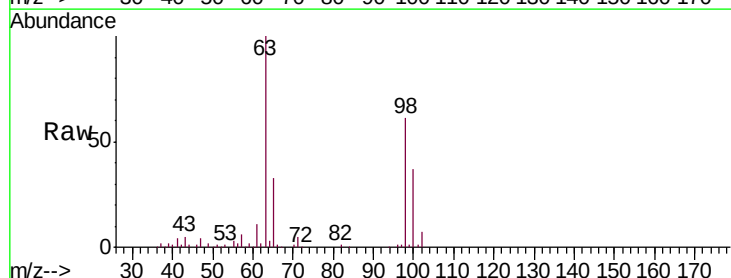
Tgt Ion: 101 Resp: 802

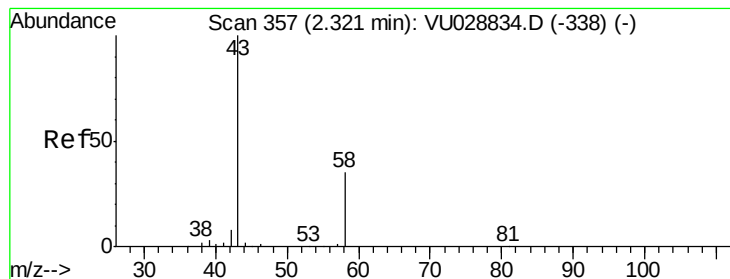
Ion Ratio Lower Upper

101 100

85 7.9 33.8 50.6#

151 0.0 59.4 89.0#





#13

Acetone

Concen: 61.786 ug/L

RT: 2.30 min Scan# 350

Delta R.T. -0.02 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

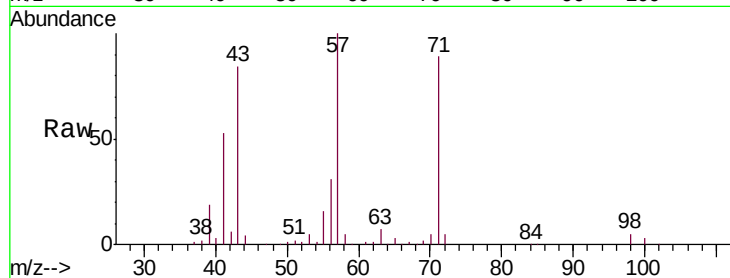
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Tgt Ion: 43 Resp: 74707

Ion Ratio Lower Upper

43 100

58 3.2 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.30

40000

30000

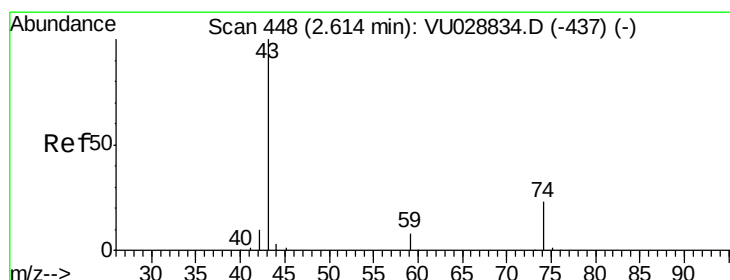
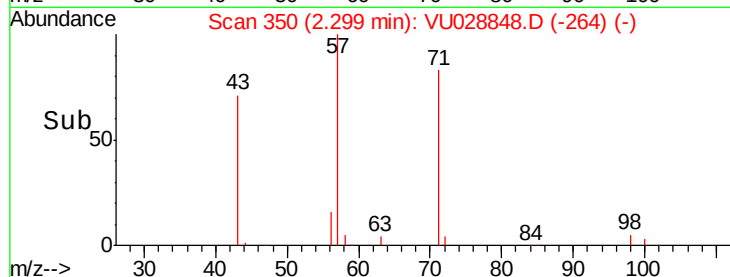
20000

10000

0

Time-->

2.20 2.25 2.30 2.35 2.40



#15

Methyl Acetate

Concen: 143.798 ug/L

RT: 2.63 min Scan# 453

Delta R.T. 0.02 min

Lab File: VU028848.D

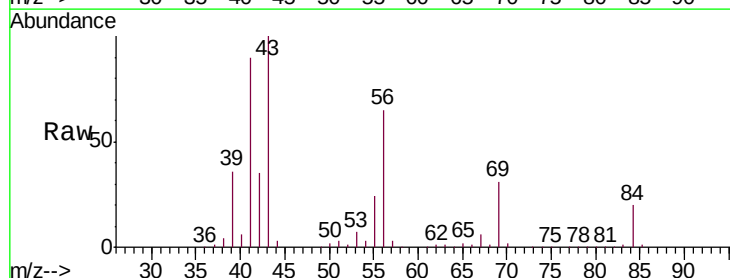
Acq: 21 Dec 2018 00:44

Tgt Ion: 43 Resp: 271066

Ion Ratio Lower Upper

43 100

74 0.3 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.63

150000

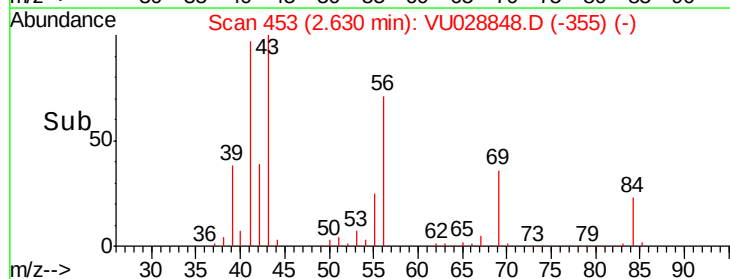
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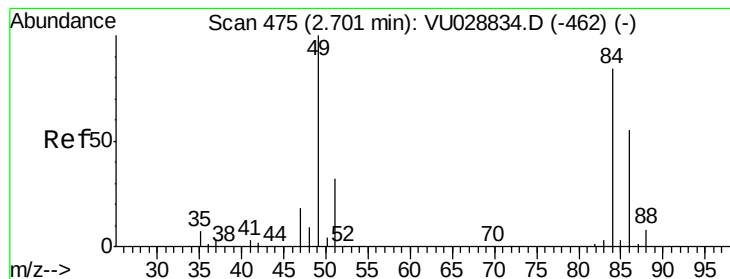
50000

0

Time-->

2.55 2.60 2.65 2.70





#16

Methylene chloride

Concen: 47.789 ug/L

RT: 2.64 min Scan# 455

Delta R.T. -0.06 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

F9F55

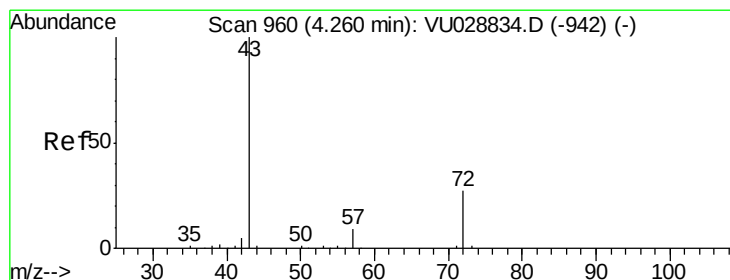
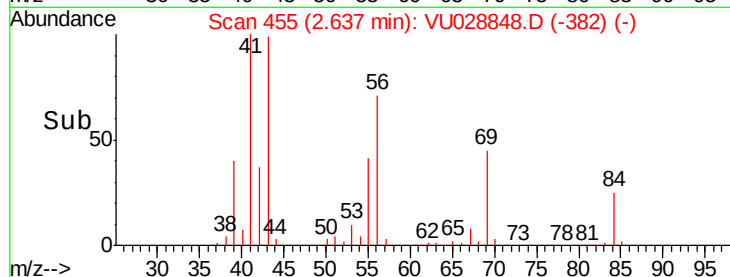
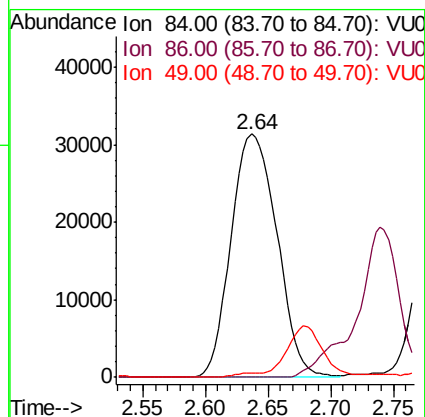
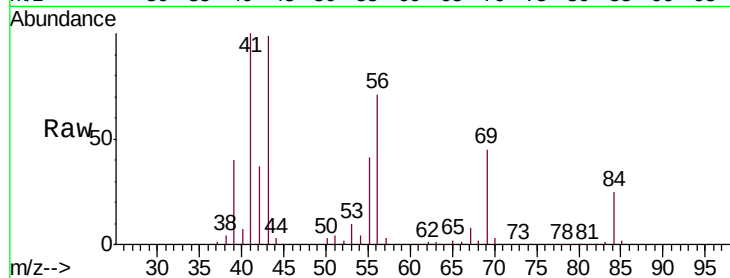
Tgt Ion: 84 Resp: 79819

Ion Ratio Lower Upper

84 100

86 0.0 44.9 83.3#

49 1.5 83.9 155.7#



#22

2-Butanone

Concen: 5.012 ug/L

RT: 4.27 min Scan# 964

Delta R.T. 0.01 min

Lab File: VU028848.D

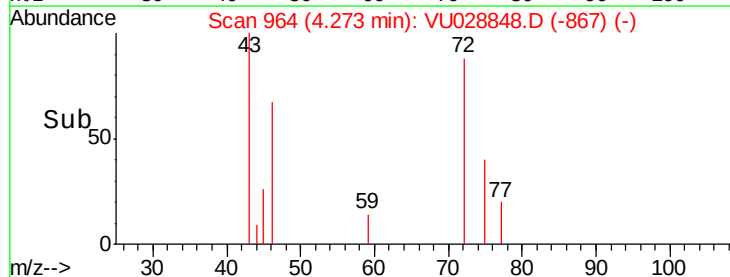
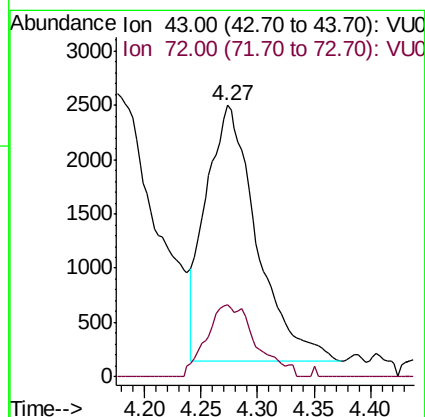
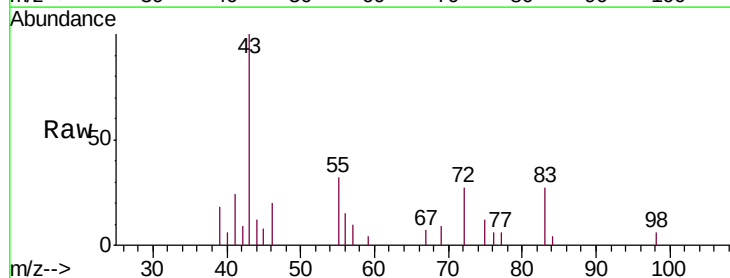
Acq: 21 Dec 2018 00:44

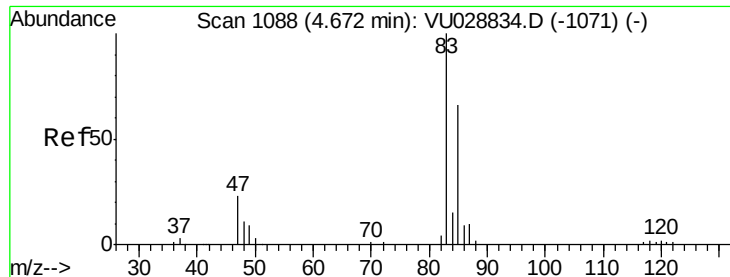
Tgt Ion: 43 Resp: 7379

Ion Ratio Lower Upper

43 100

72 15.3 13.7 41.1

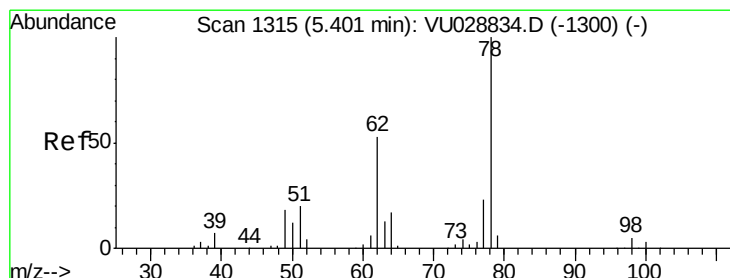
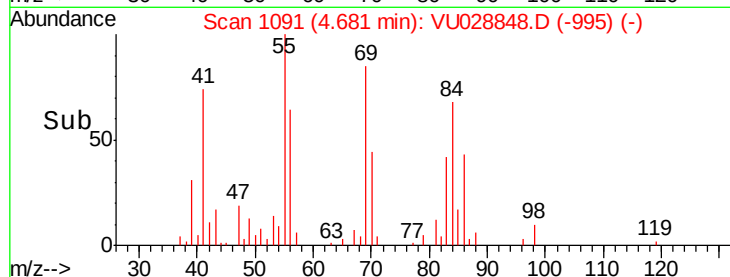
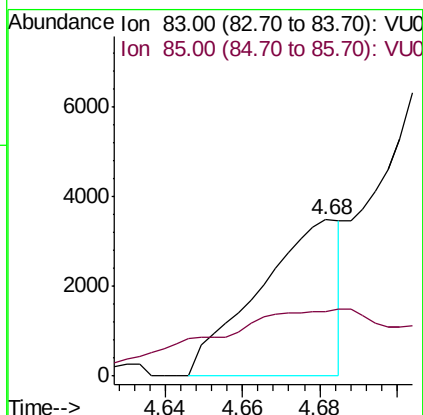
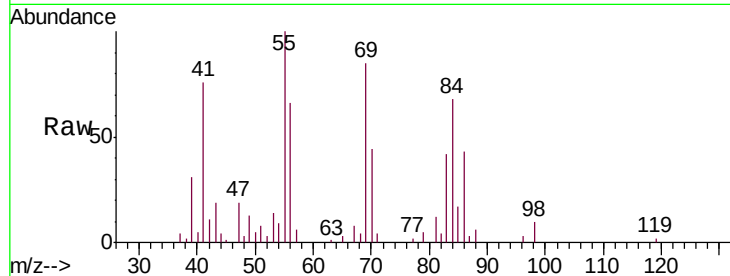




#25
Chloroform
Concen: 1.881 ug/L
RT: 4.68 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

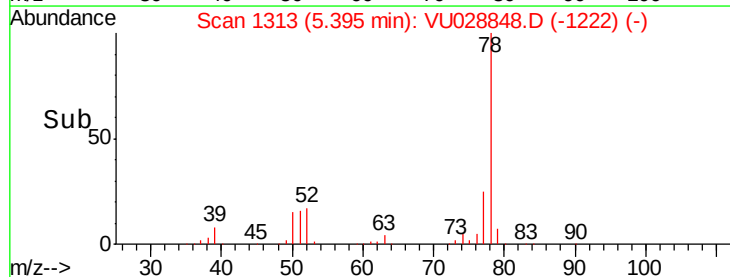
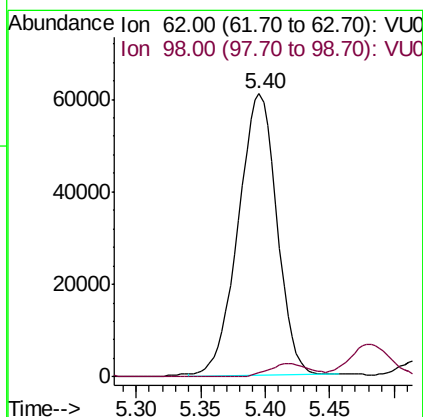
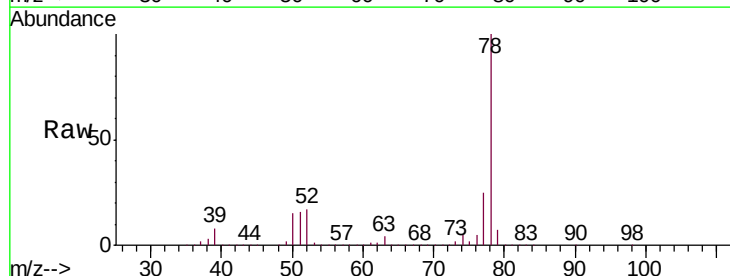
Instrument :
MSVOA_U
ClientSampled :
F9F55

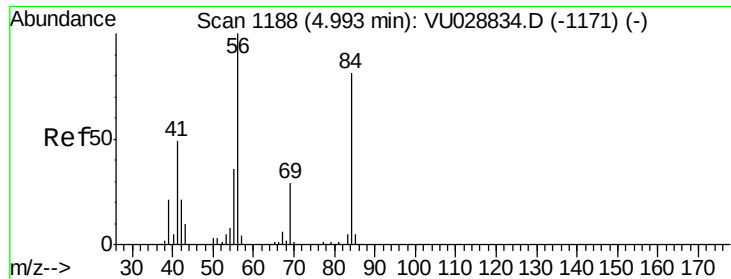
Tgt Ion: 83 Resp: 5107
Ion Ratio Lower Upper
83 100
85 41.7 45.6 84.6#



#27
1,2-Dichloroethane
Concen: 62.947 ug/L
RT: 5.40 min Scan# 1313
Delta R.T. -0.01 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

Tgt Ion: 62 Resp: 127005
Ion Ratio Lower Upper
62 100
98 1.4 7.5 11.3#

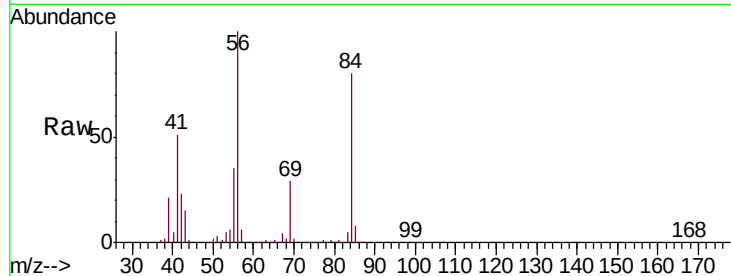




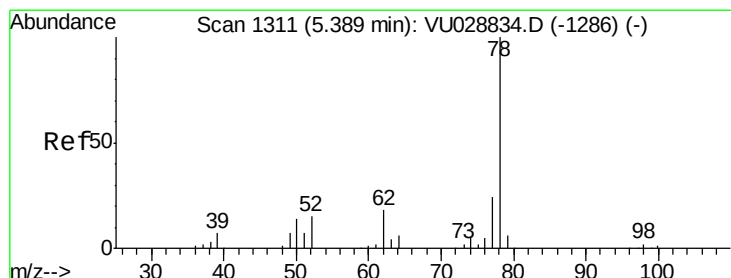
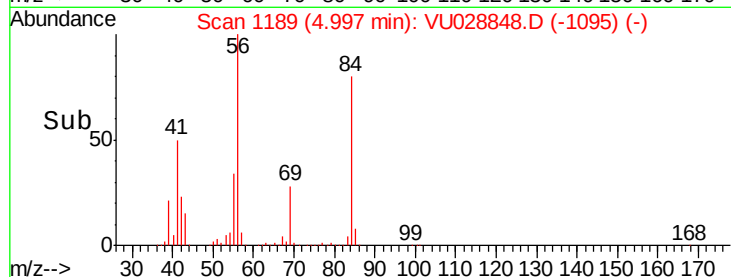
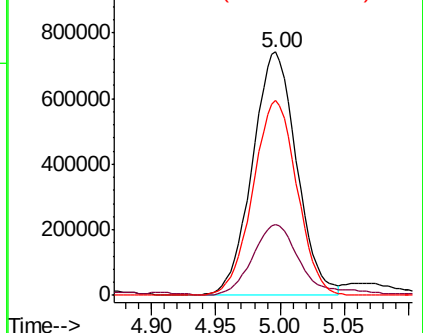
#29
Cyclohexane
Concen: 659.553 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

Instrument :
MSVOA_U
ClientSampleId :
F9F55

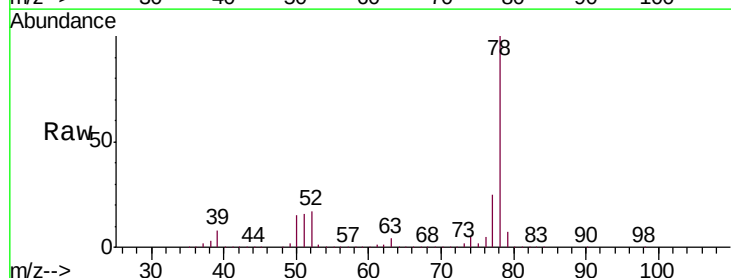
Tgt Ion: 56 Resp: 1771311
Ion Ratio Lower Upper
56 100
69 31.1 23.8 35.8
84 79.9 63.8 95.8



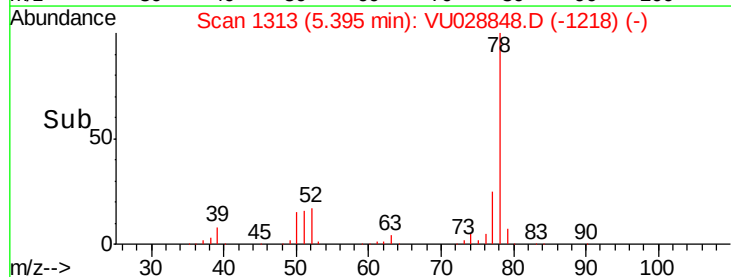
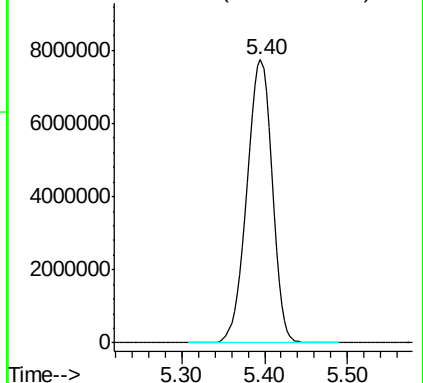
Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

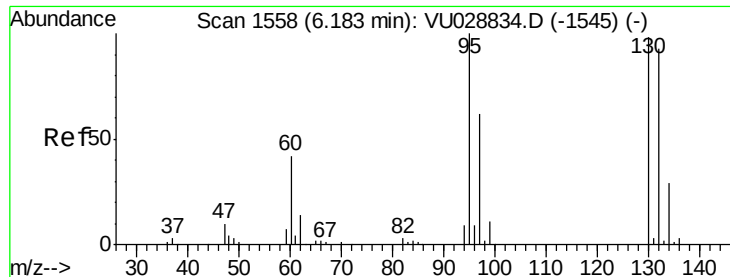


#33
Benzene
Concen: 2552.193 ug/L
RT: 5.40 min Scan# 1313
Delta R.T. 0.01 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44
Tgt Ion: 78 Resp:16395262



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 7.162 ug/L

RT: 6.22 min Scan# 1571

Delta R.T. 0.04 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

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Tgt Ion: 95 Resp: 11107

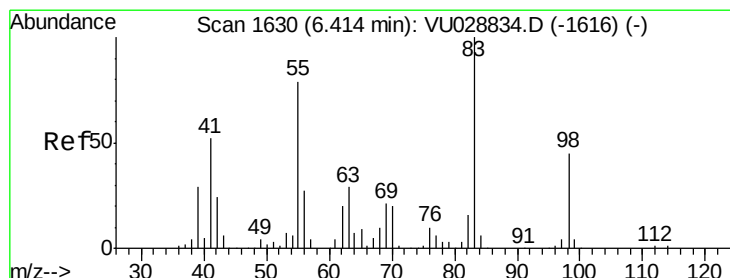
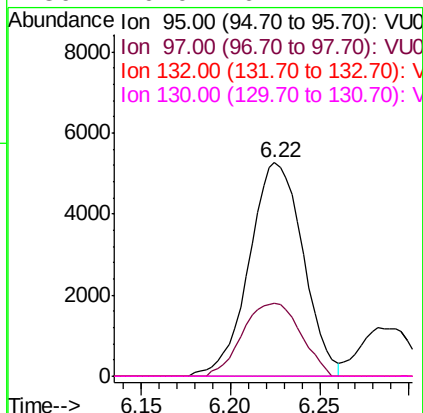
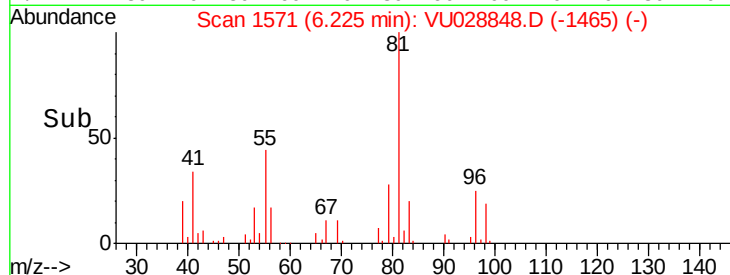
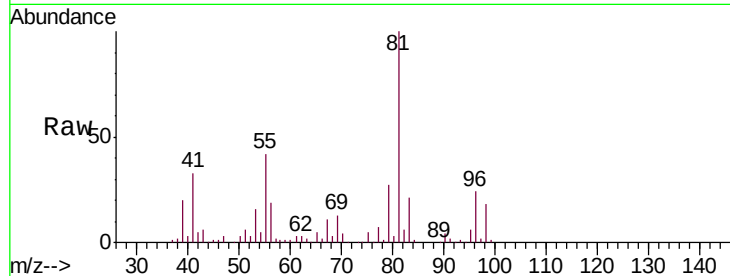
Ion Ratio Lower Upper

95 100

97 34.2 43.3 80.3#

132 0.0 64.2 119.2#

130 0.0 67.1 124.7#



#35

Methylcyclohexane

Concen: 351.103 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

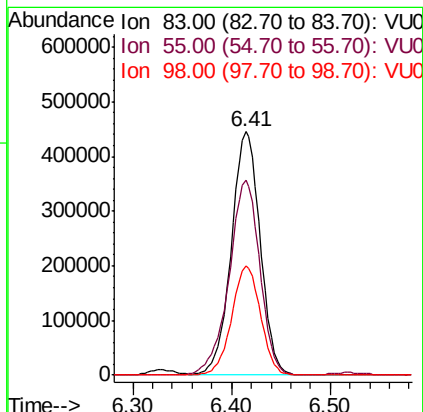
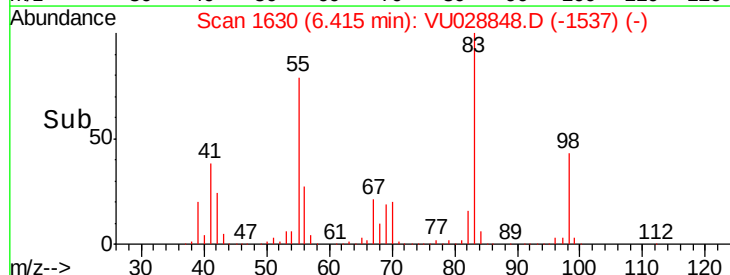
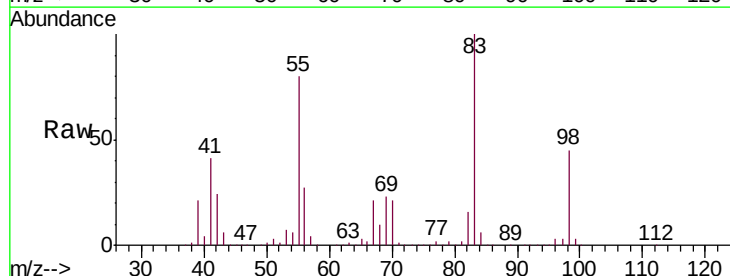
Tgt Ion: 83 Resp: 906929

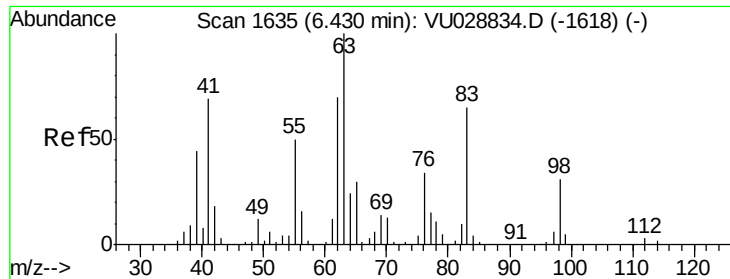
Ion Ratio Lower Upper

83 100

55 85.4 63.7 95.5

98 44.8 35.6 53.4

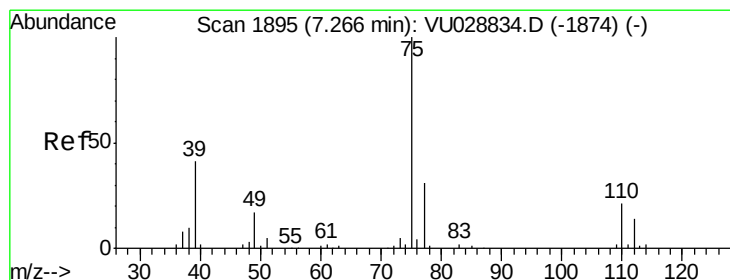
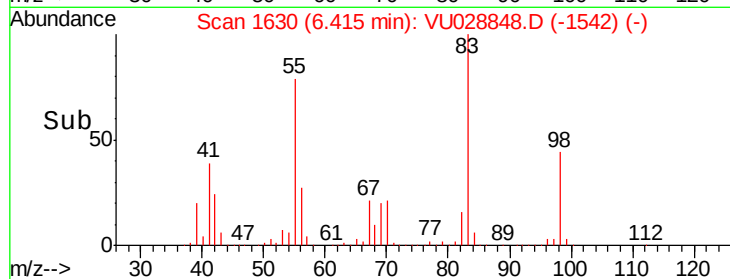
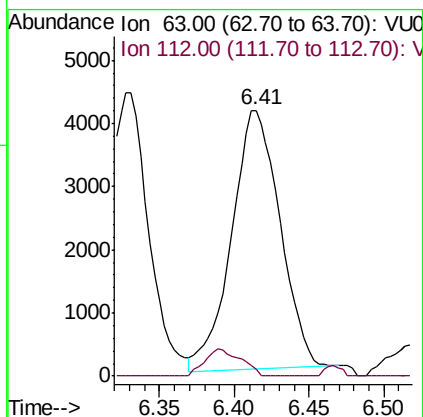
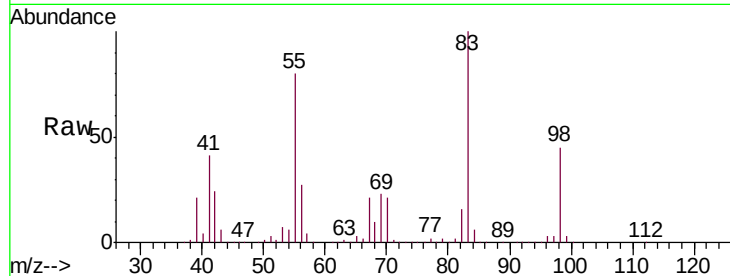




#37
 1,2-Dichloropropane
 Concen: 5.118 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. -0.02 min
 Lab File: VU028848.D
 Acq: 21 Dec 2018 00:44

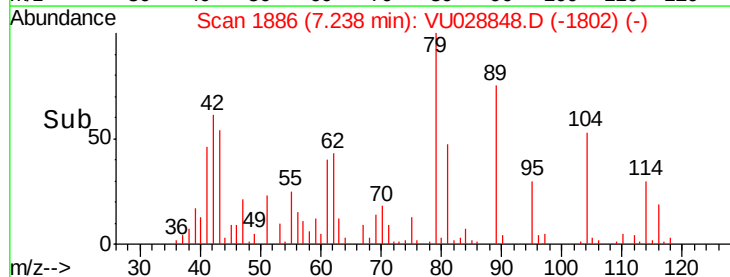
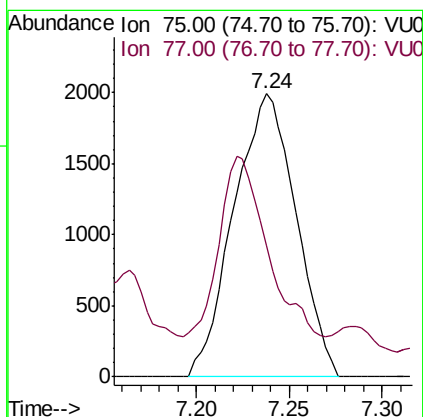
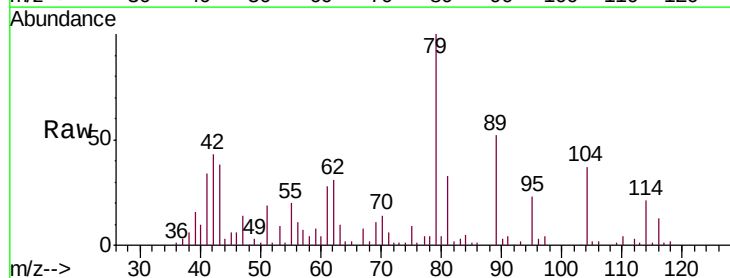
Instrument :
 MSVOA_U
 ClientSampleId :
 F9F55

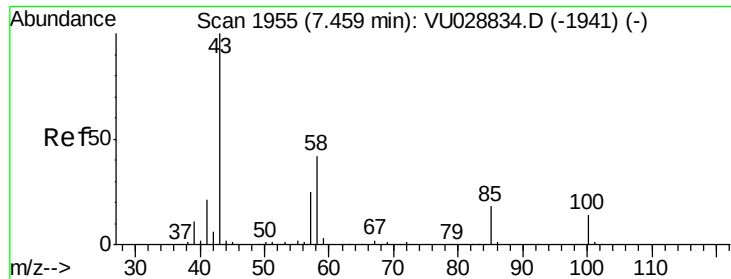
Tgt Ion: 63 Resp: 9190
 Ion Ratio Lower Upper
 63 100
 112 7.8 2.7 4.1#



#39
 cis-1,3-Dichloropropene
 Concen: 1.819 ug/L
 RT: 7.24 min Scan# 1886
 Delta R.T. -0.03 min
 Lab File: VU028848.D
 Acq: 21 Dec 2018 00:44

Tgt Ion: 75 Resp: 4657
 Ion Ratio Lower Upper
 75 100
 77 46.2 21.8 40.6#

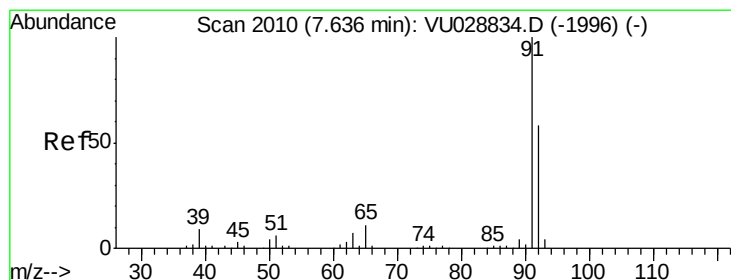
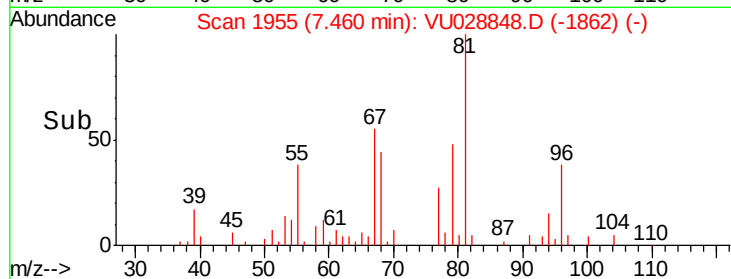
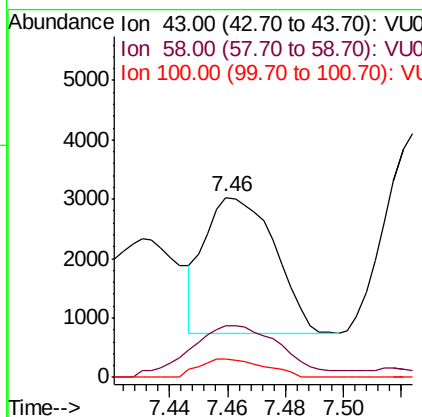
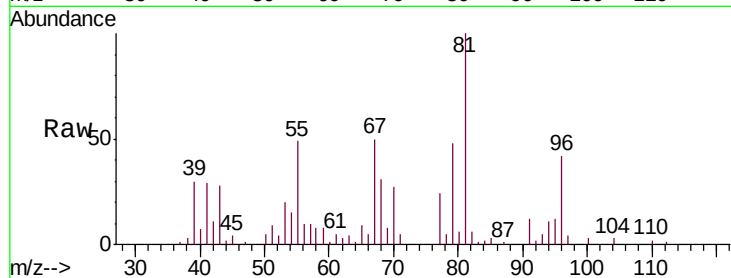




#40
 4-Methyl-2-pentanone
 Concen: 1.584 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VU028848.D
 Acq: 21 Dec 2018 00:44

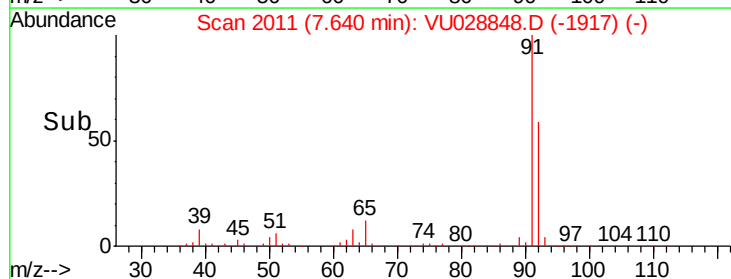
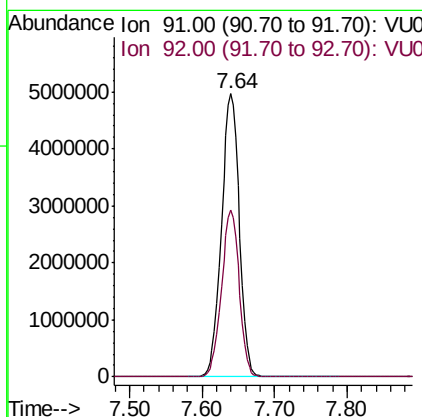
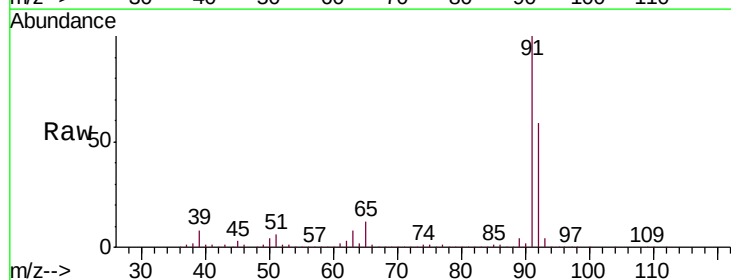
Instrument :
 MSVOA_U
 ClientSampleId :
 F9F55

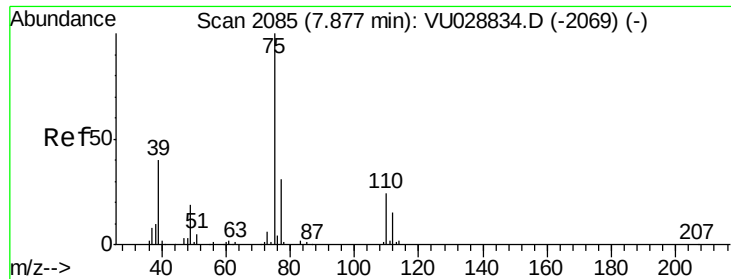
Tgt Ion: 43 Resp: 3823
 Ion Ratio Lower Upper
 43 100
 58 52.2 33.1 49.7#
 100 12.7 11.5 17.3



#42
 Toluene
 Concen: 1292.760 ug/L
 RT: 7.64 min Scan# 2011
 Delta R.T. 0.00 min
 Lab File: VU028848.D
 Acq: 21 Dec 2018 00:44

Tgt Ion: 91 Resp: 8418430
 Ion Ratio Lower Upper
 91 100
 92 58.8 39.9 74.1





#44

trans-1,3-Dichloropropene

Concen: 0.706 ug/L

RT: 7.85 min Scan# 2075

Delta R.T. -0.03 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

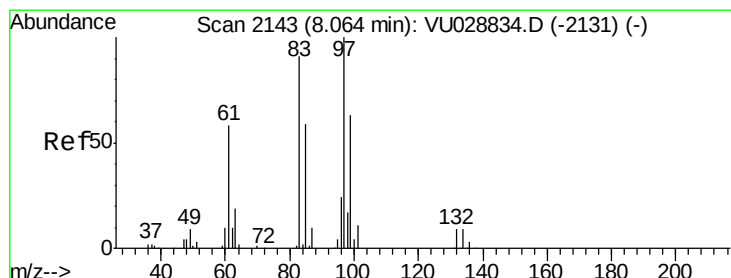
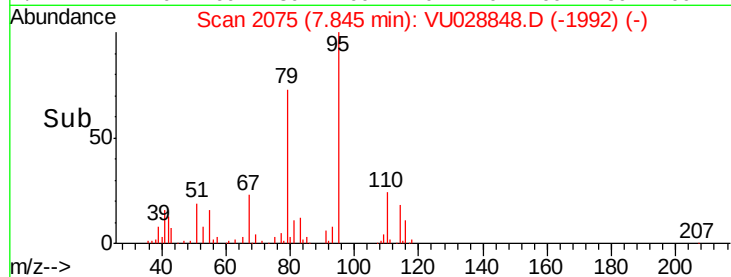
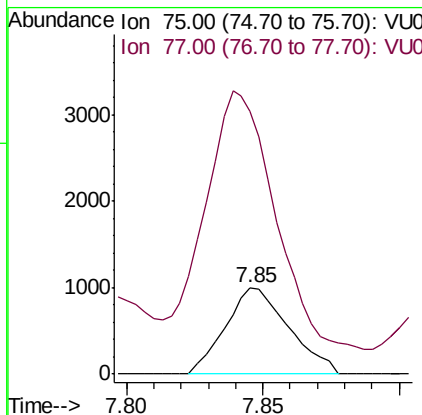
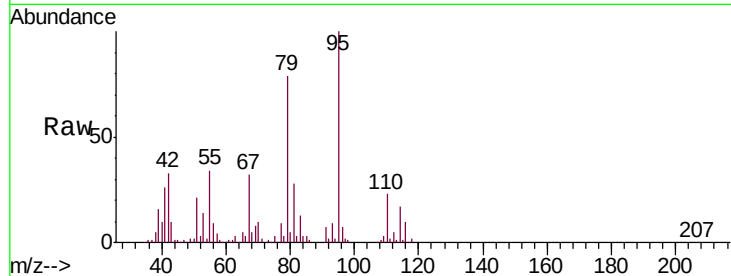
F9F55

Tgt Ion: 75 Resp: 1611

Ion Ratio Lower Upper

75 100

77 304.0 21.8 40.6#



#45

1,1,2-Trichloroethane

Concen: 24.049 ug/L

RT: 8.04 min Scan# 2137

Delta R.T. -0.02 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Tgt Ion: 97 Resp: 36925

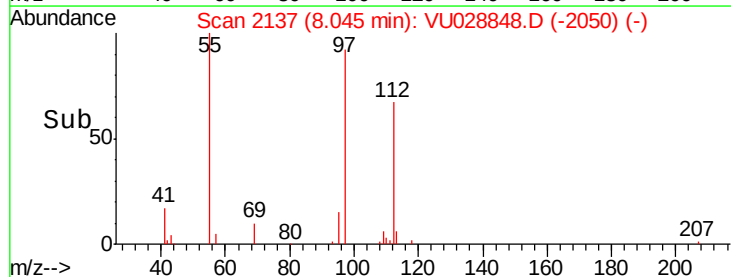
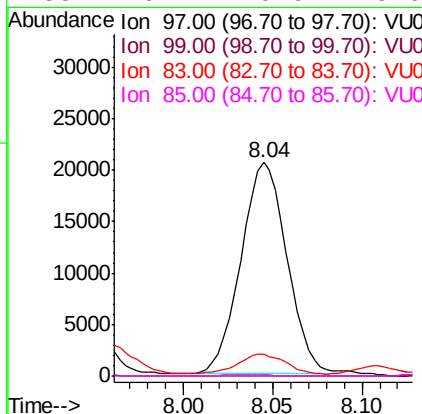
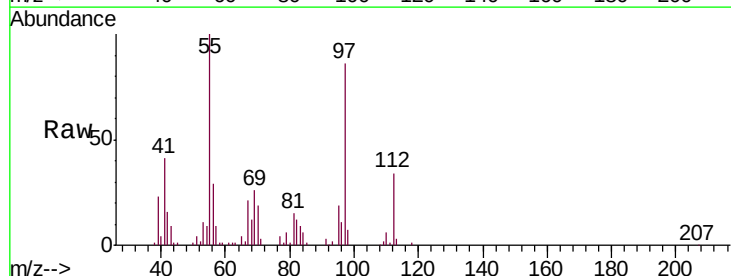
Ion Ratio Lower Upper

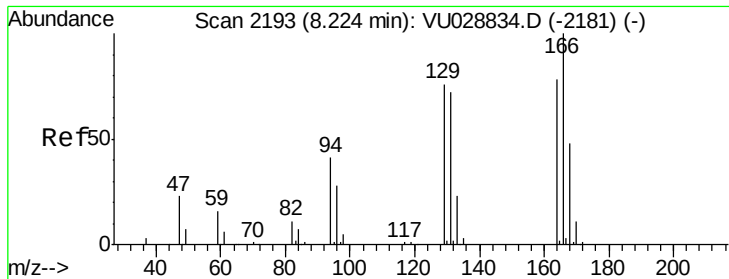
97 100

99 0.0 44.2 82.2#

83 10.1 64.5 119.9#

85 0.7 40.9 75.9#

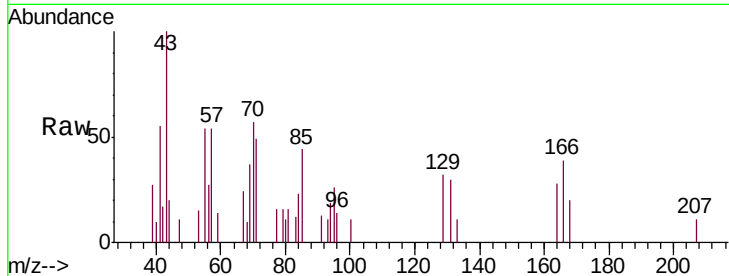




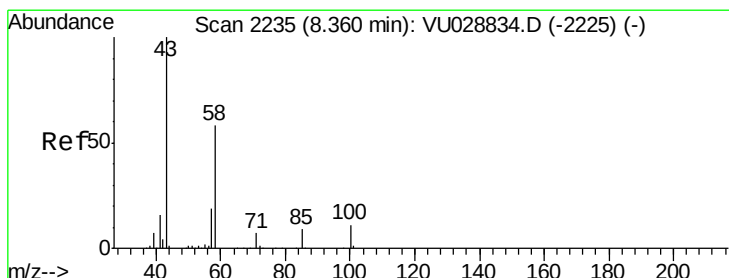
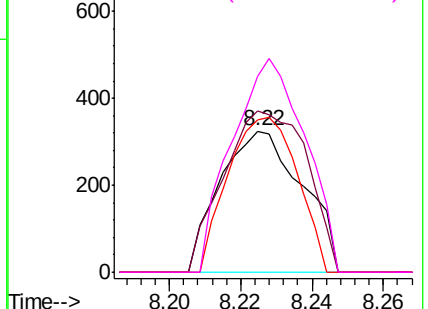
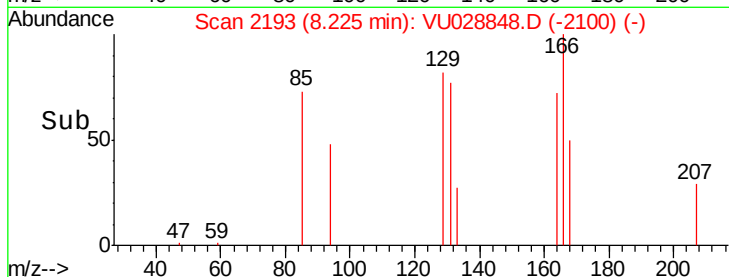
#46
Tetrachloroethene
Concen: 0.435 ug/L
RT: 8.22 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

Instrument :
MSVOA_U
ClientSampleId :
F9F55

Tgt Ion:164 Resp: 519
Ion Ratio Lower Upper
164 100
129 114.5 66.8 124.0
131 107.4 64.2 119.2
166 138.8 90.8 168.6

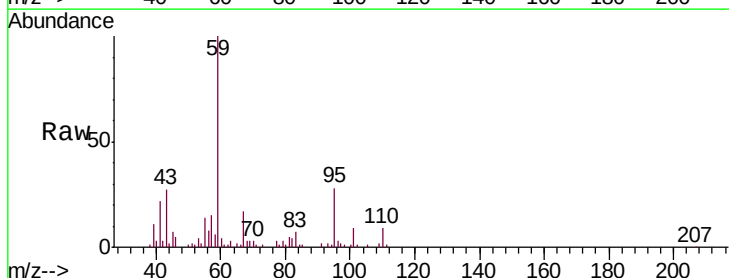


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

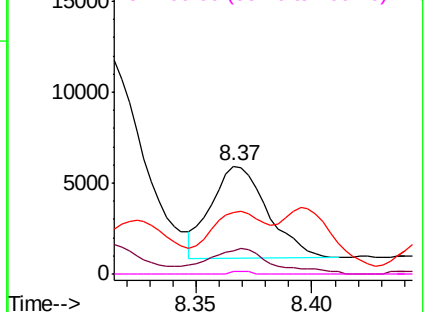
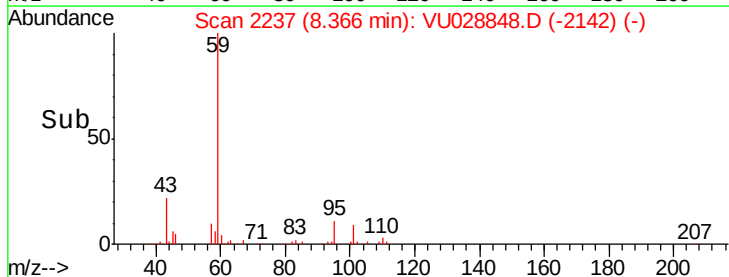


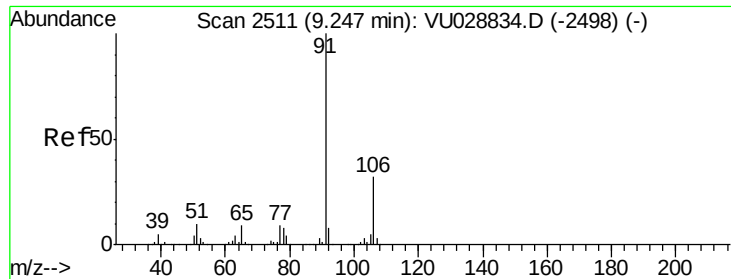
#48
2-Hexanone
Concen: 4.307 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.01 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

Tgt Ion: 43 Resp: 8532
Ion Ratio Lower Upper
43 100
58 31.6 45.9 68.9#
57 66.0 15.0 22.4#
100 0.9 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





#52

Ethylbenzene

Concen: 1276.301 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.01 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

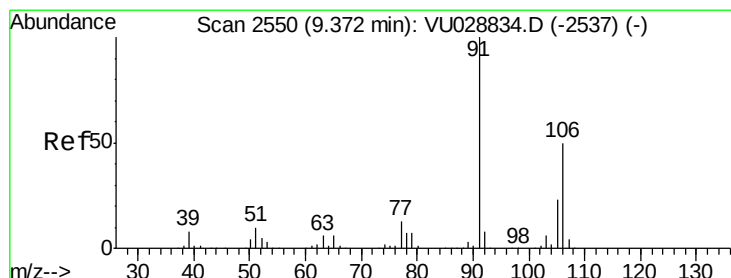
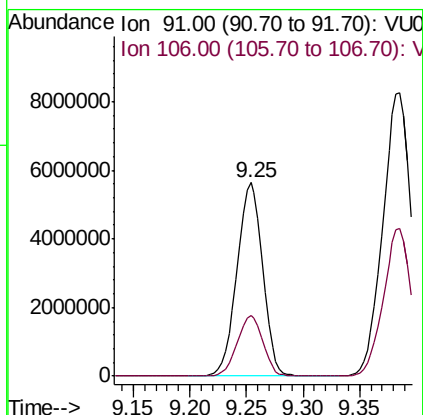
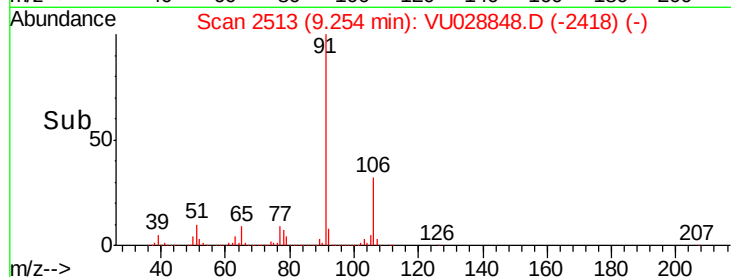
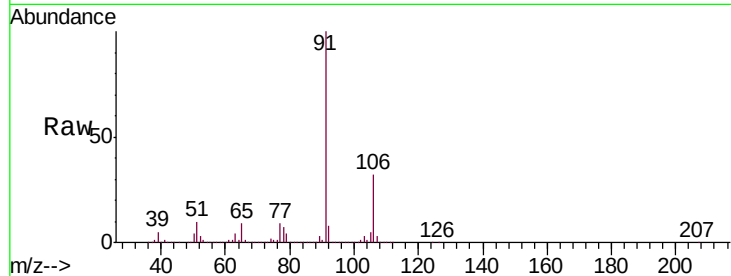
F9F55

Tgt Ion: 91 Resp: 8930515

Ion Ratio Lower Upper

91 100

106 31.5 20.9 38.9



#53

m,p-Xylene

Concen: 2765.930 ug/L

RT: 9.39 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VU028848.D

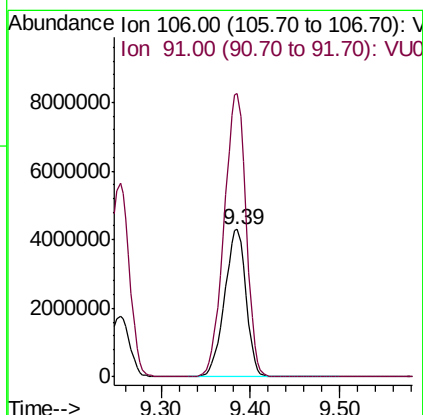
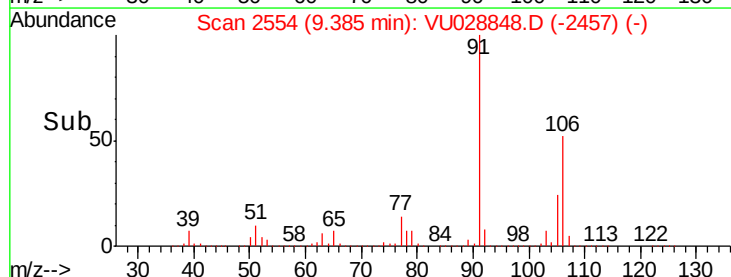
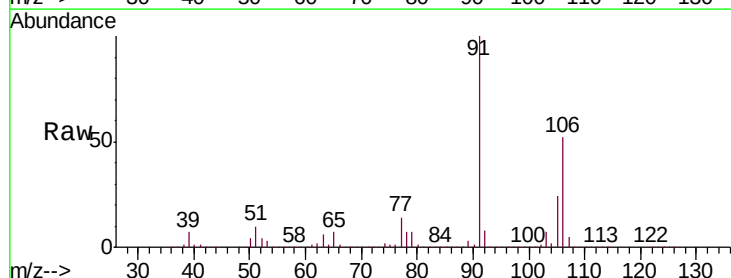
Acq: 21 Dec 2018 00:44

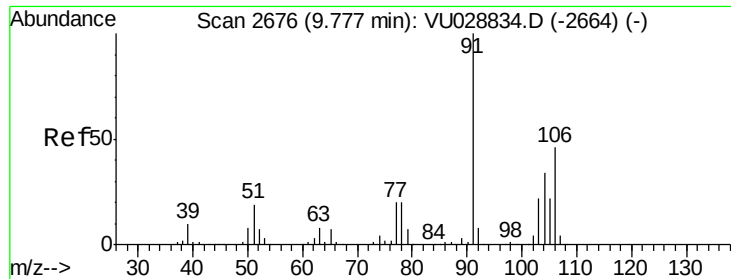
Tgt Ion: 106 Resp: 7156775

Ion Ratio Lower Upper

106 100

91 191.9 144.1 267.5

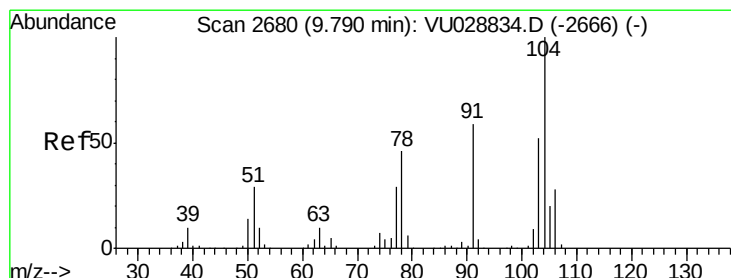
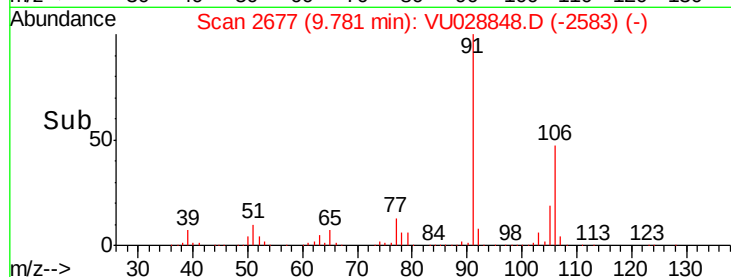
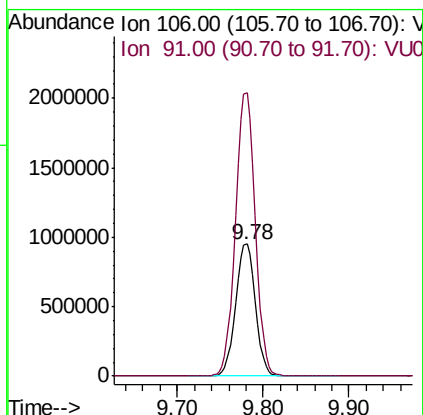
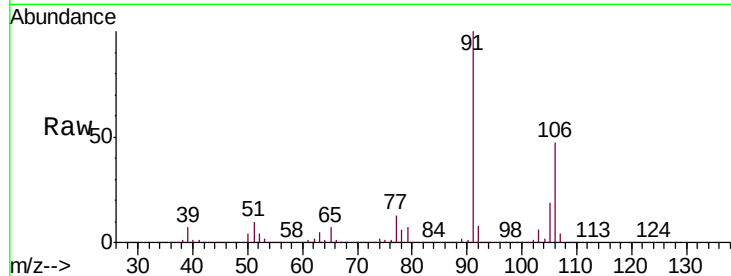




#54
o-xylene
Concen: 582.721 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

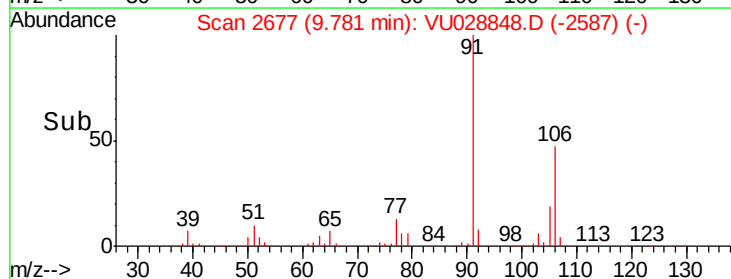
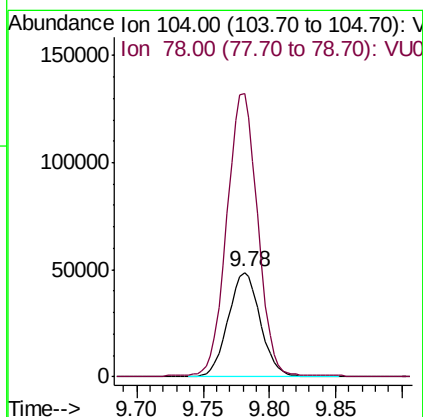
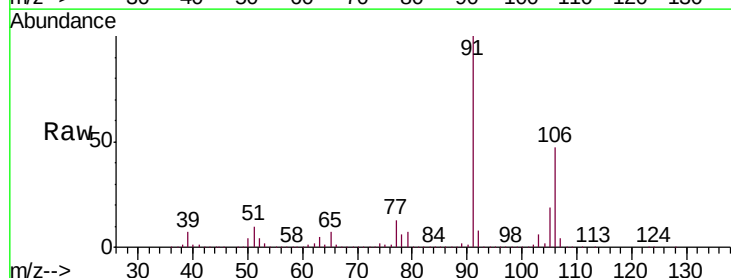
Instrument :
MSVOA_U
ClientSampled :
F9F55

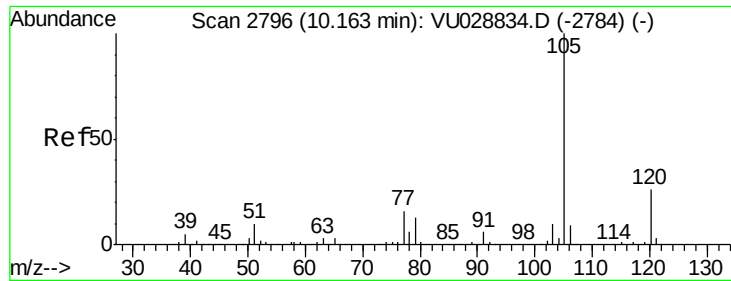
Tgt Ion:106 Resp: 1511179
Ion Ratio Lower Upper
106 100
91 214.1 150.4 279.4



#55
Styrene
Concen: 18.752 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. -0.01 min
Lab File: VU028848.D
Acq: 21 Dec 2018 00:44

Tgt Ion:104 Resp: 82361
Ion Ratio Lower Upper
104 100
78 270.8 31.3 58.1#





#56

Isopropylbenzene

Concen: 60.067 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

F9F55

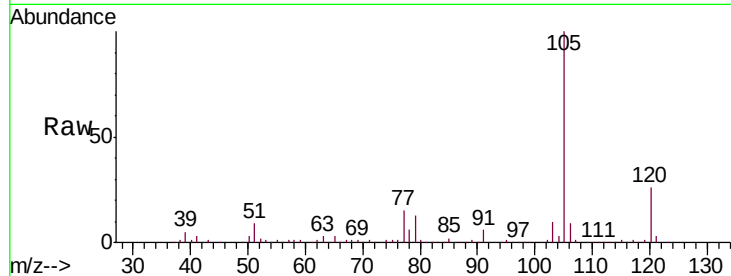
Tgt Ion:105 Resp: 395159

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.2

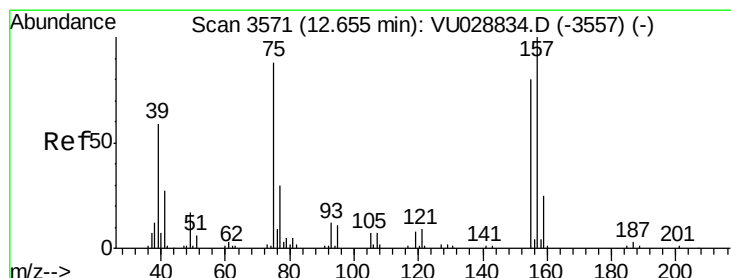
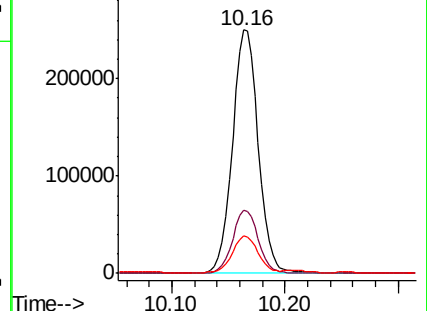
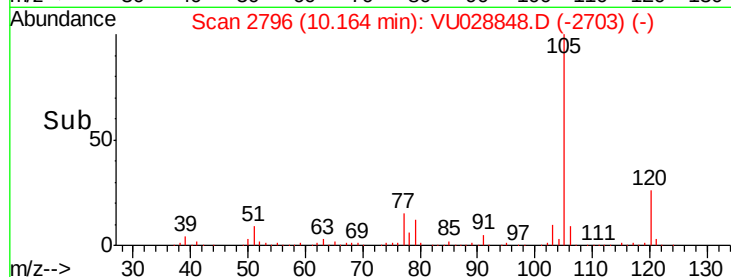
77 14.6 12.3 18.5



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): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.378 ug/L

RT: 12.65 min Scan# 3568

Delta R.T. -0.01 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

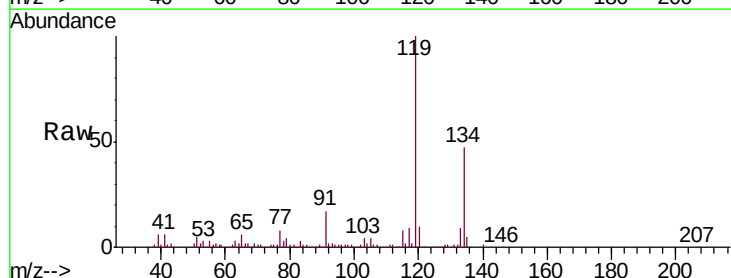
Tgt Ion: 75 Resp: 1256

Ion Ratio Lower Upper

75 100

155 0.0 71.4 107.2#

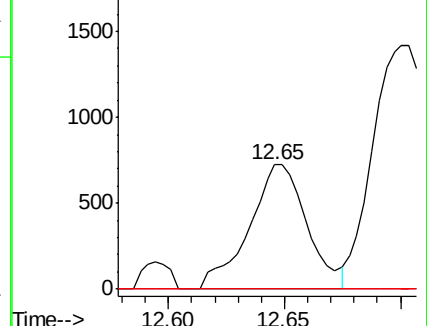
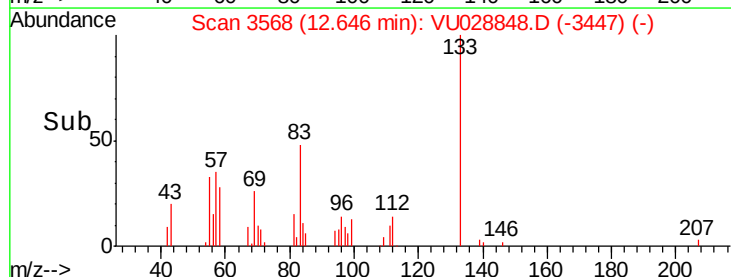
157 0.0 89.6 134.4#

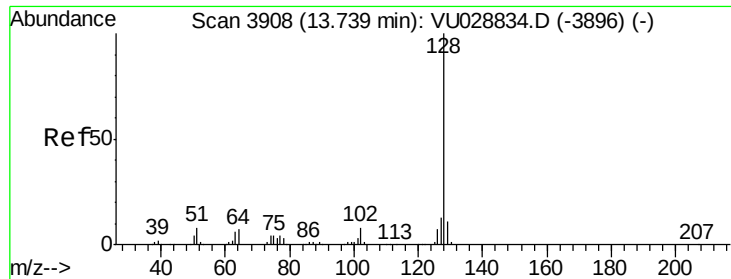


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 551.456 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028848.D

Acq: 21 Dec 2018 00:44

Instrument :

MSVOA_U

ClientSampleId :

F9F55

Tgt Ion:128 Resp: 3470347

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

129 11.1 8.7 13.1

