

Data File : VU034659.D
Acq On : 19 Sep 2019 20:16
Operator : JC/SP
Sample : K4895-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDF8

Quant Time: Sep 20 04:05:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 20 04:02:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	462719	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	451534	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	205491	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	226798	47.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.76%
7) Chloroethane-d5	1.67	69	179557	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.08%
11) 1,1-Dichloroethene-d2	2.26	63	300105	37.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.82%
21) 2-Butanone-d5	4.15	46	396031	109.08	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.08%
24) Chloroform-d	4.62	84	340003	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.74%
26) 1,2-Dichloroethane-d4	5.29	65	256295	50.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.26%
32) Benzene-d6	5.32	84	697714	49.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.70%
36) 1,2-Dichloropropane-d6	6.31	67	246169	50.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.64%
41) Toluene-d8	7.54	98	655707	49.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.50%
43) trans-1,3-Dichloropropene-	7.83	79	117934	50.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.68%
47) 2-Hexanone-d5	8.29	63	260120	105.87	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.87%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	325414	47.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.88%
64) 1,2-Dichlorobenzene-d4	11.84	152	221322	51.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.72%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	4887	0.937 ug/L #	19
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	3066	0.972 ug/L #	23
12) 1,1-Dichloroethene	2.26	96	2809	0.928 ug/L #	1
13) Acetone	2.31	43	41844	9.908 ug/L	100
16) Methylene chloride	2.68	84	7651	1.995 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	4080	1.054 ug/L	95
22) 2-Butanone	4.26	43	23180	4.614 ug/L	79
25) Chloroform	4.65	83	16102	2.153 ug/L	94
33) Benzene	5.37	78	32119	2.051 ug/L	100
34) Trichloroethene	6.17	95	11553	2.987 ug/L	93
40) 4-Methyl-2-pentanone	7.40	43	108500	12.188 ug/L #	58
42) Toluene	7.62	91	442486	26.145 ug/L	99
46) Tetrachloroethene	8.21	164	18785	6.905 ug/L	98
52) Ethylbenzene	9.23	91	171319	8.989 ug/L	98
53) m,p-Xylene	9.35	106	307018	45.482 ug/L	98
54) o-xylene	9.76	106	274630	41.133 ug/L	99
56) Isopropylbenzene	10.14	105	35981	1.999 ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091919\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Fri Sep 20 04:02:05 2019
Response via : Initial Calibration

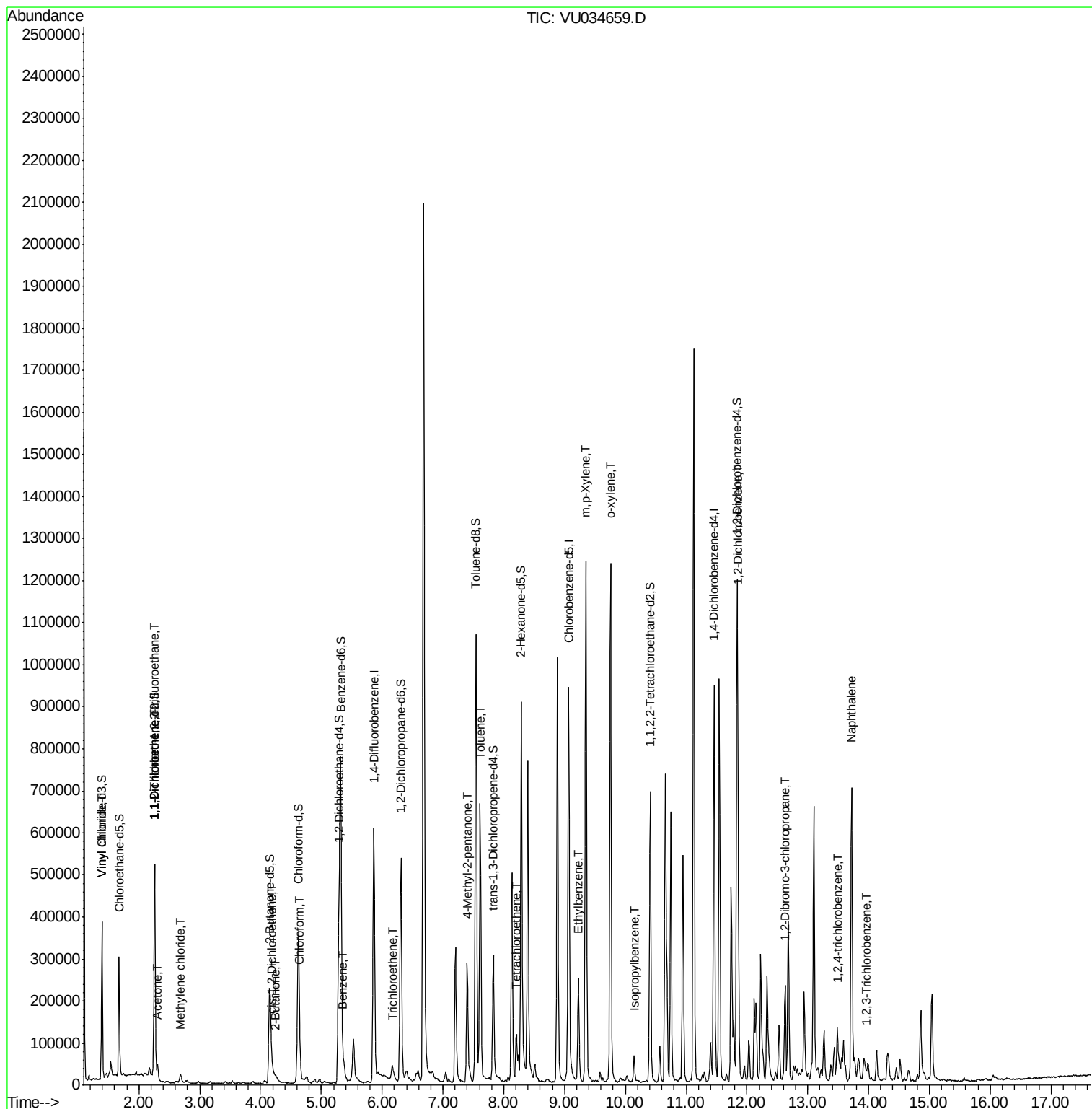
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.85	146	67919	9.446	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.63	75	1796	1.175	ug/L #	10
68) 1,2,4-trichlorobenzene	13.48	180	4752	1.267	ug/L #	72
69) Naphthalene	13.72	128	514964	39.673	ug/L	100
70) 1,2,3-Trichlorobenzene	13.96	180	3774	0.978	ug/L #	87

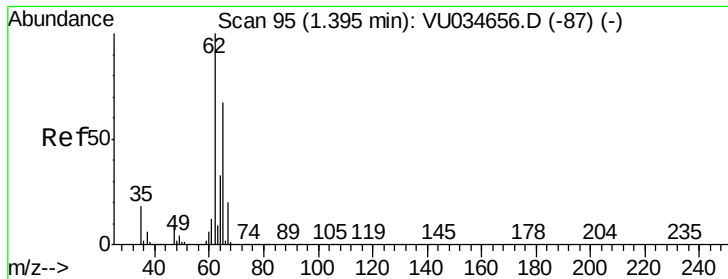
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.937 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

Instrument :

MSVOA_U

ClientSampleId :

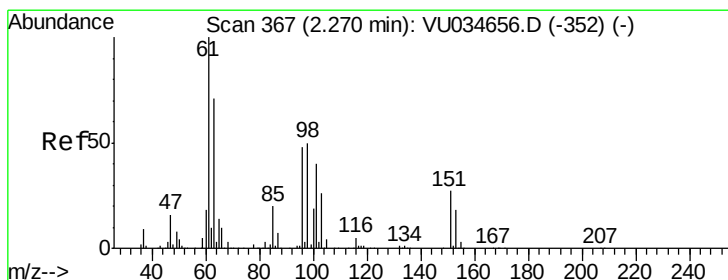
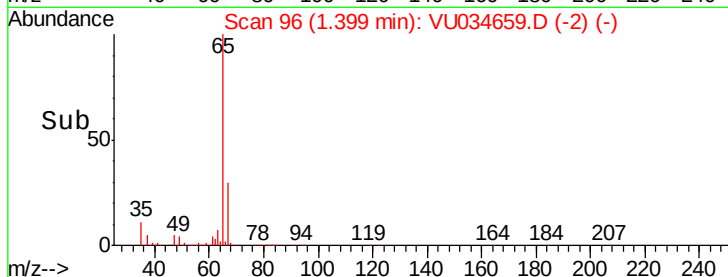
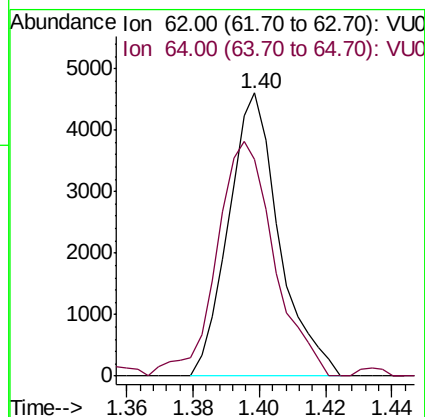
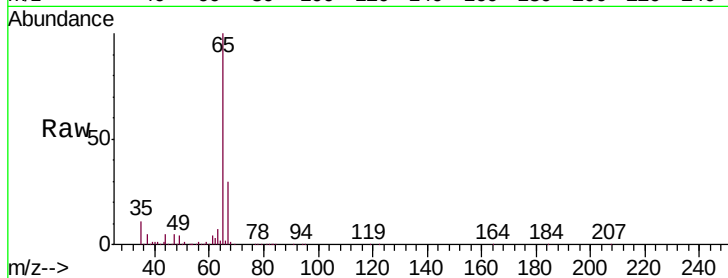
BPDF8

Tgt Ion: 62 Resp: 4887

Ion Ratio Lower Upper

62 100

64 76.7 22.2 41.2#



#10

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

Concen: 0.972 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

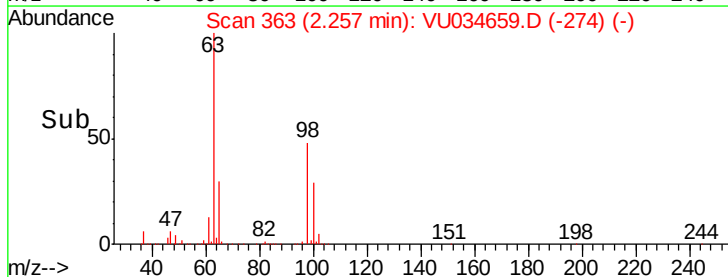
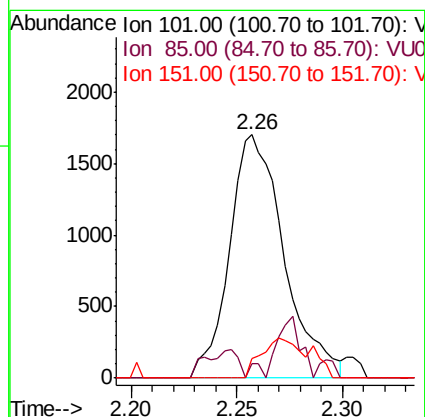
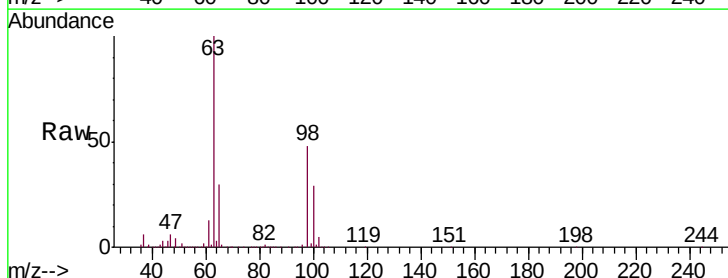
Tgt Ion: 101 Resp: 3066

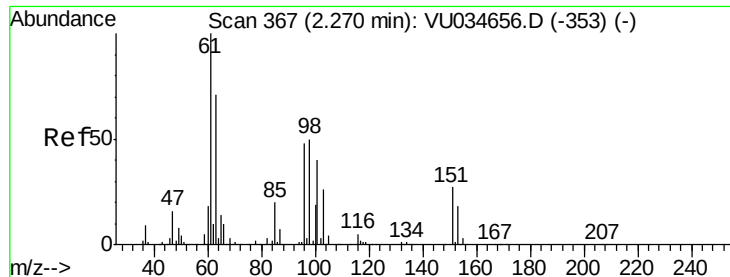
Ion Ratio Lower Upper

101 100

85 1.3 39.0 58.4#

151 0.0 52.8 79.2#

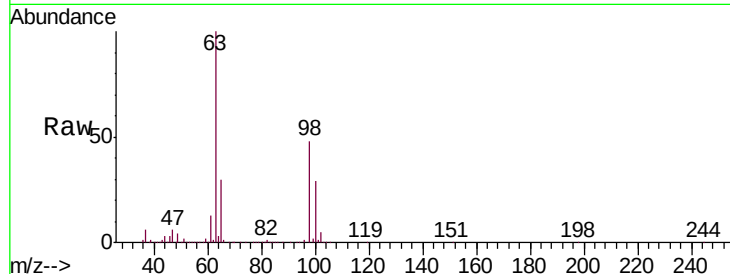




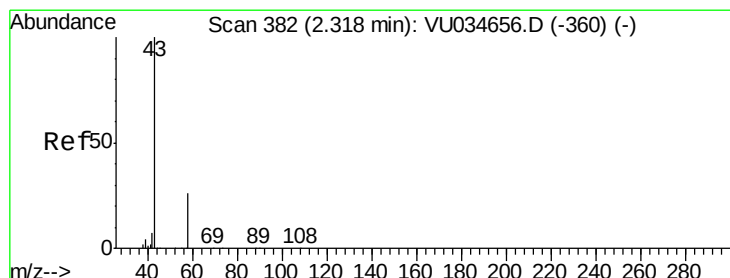
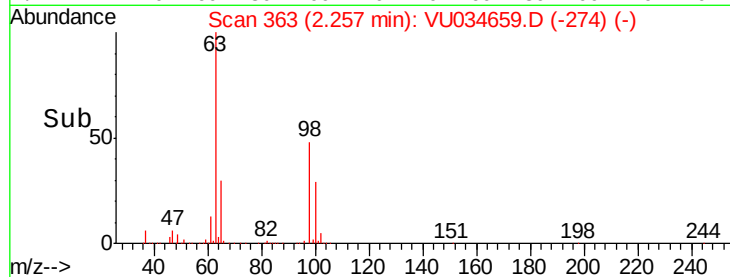
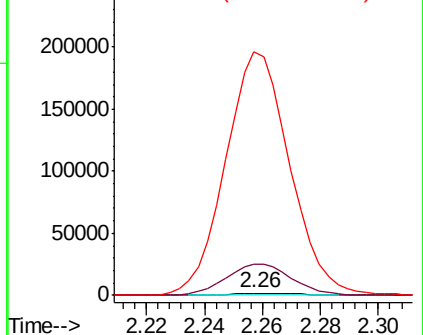
#12
 1,1-Dichloroethene
 Concen: 0.928 ug/L
 RT: 2.26 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VU034659.D
 Acq: 19 Sep 2019 20:16

Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF8

Tgt Ion: 96 Resp: 2809
 Ion Ratio Lower Upper
 96 100
 61 1610.8 153.2 284.4#
 63 12667.8 113.8 211.3#

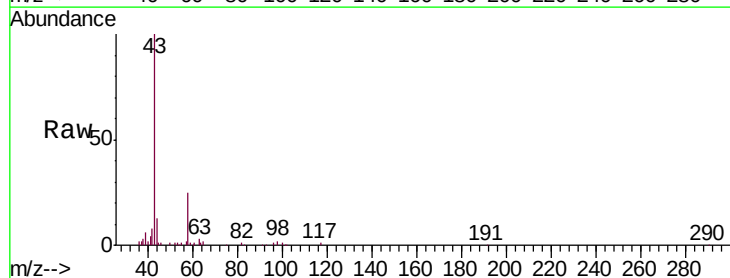


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 63.00 (62.70 to 63.70): VU0

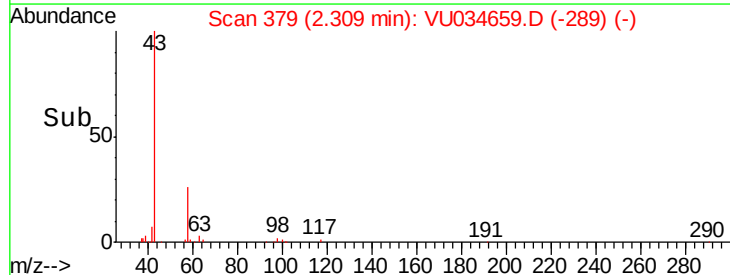
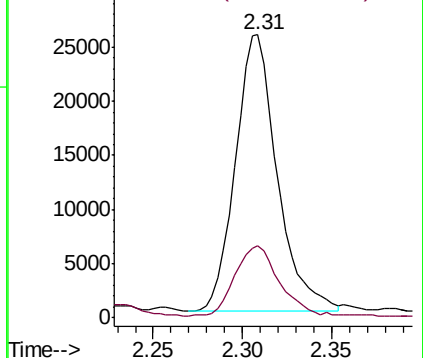


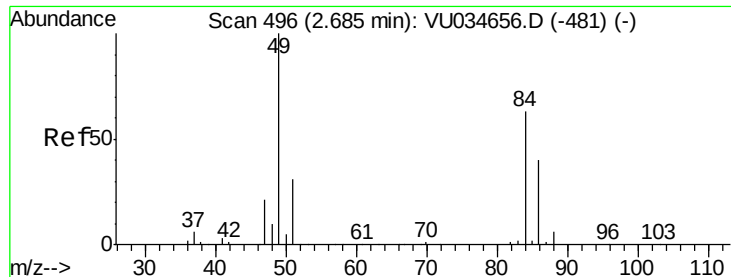
#13
 Acetone
 Concen: 9.908 ug/L
 RT: 2.31 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VU034659.D
 Acq: 19 Sep 2019 20:16

Tgt Ion: 43 Resp: 41844
 Ion Ratio Lower Upper
 43 100
 58 26.5 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0

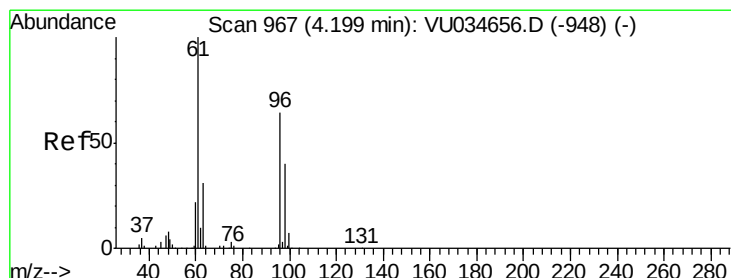
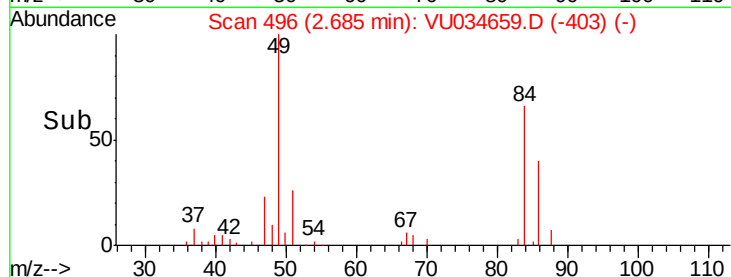
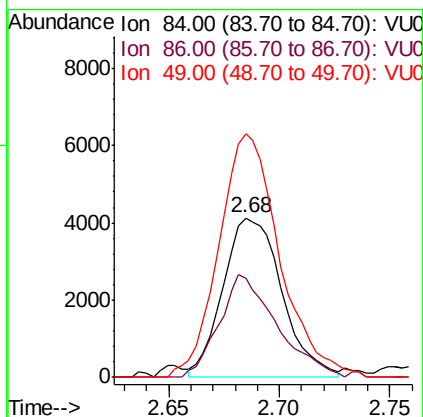
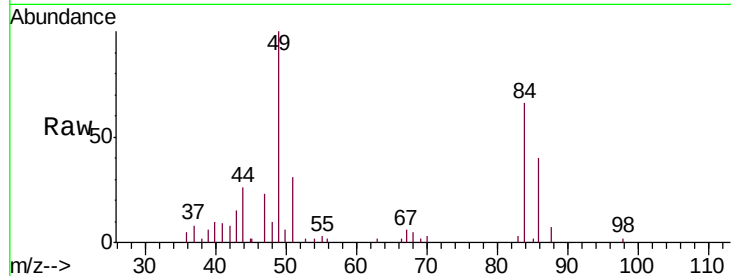




#16
Methylene chloride
Concen: 1.995 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034659.D
Acq: 19 Sep 2019 20:16

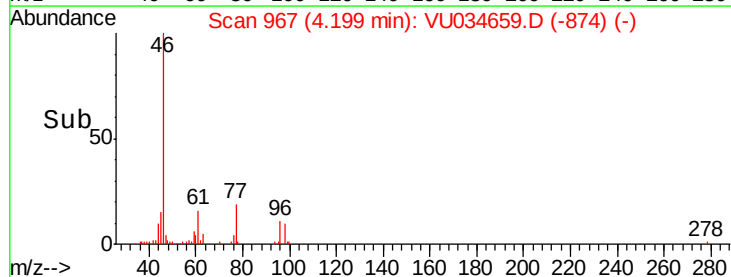
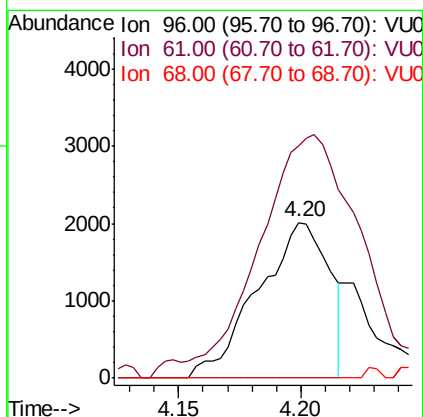
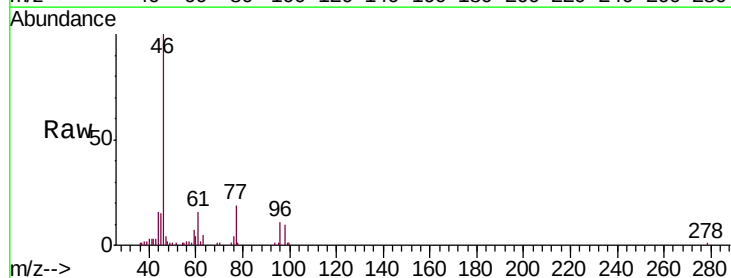
Instrument :
MSVOA_U
ClientSampleId :
BDF8

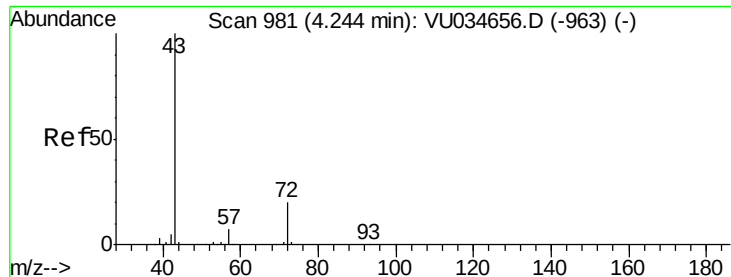
Tgt Ion: 84 Resp: 7651
Ion Ratio Lower Upper
84 100
86 61.7 43.0 80.0
49 152.4 109.7 203.7



#20
cis-1,2-Dichloroethene
Concen: 1.054 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU034659.D
Acq: 19 Sep 2019 20:16

Tgt Ion: 96 Resp: 4080
Ion Ratio Lower Upper
96 100
61 149.4 108.8 202.2
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.614 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.01 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

Instrument :

MSVOA_U

ClientSampleId :

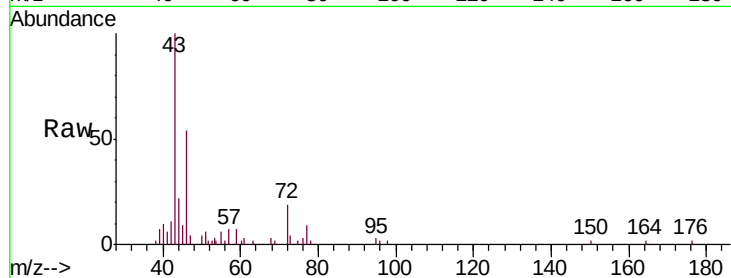
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Tgt Ion: 43 Resp: 23180

Ion Ratio Lower Upper

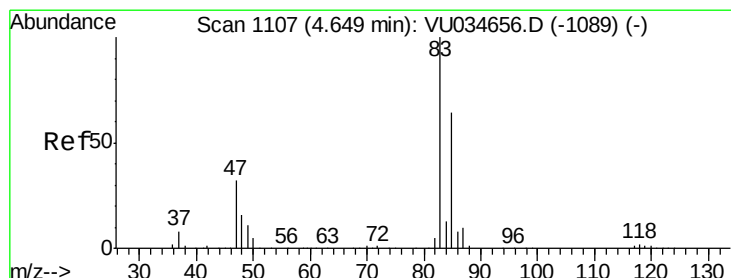
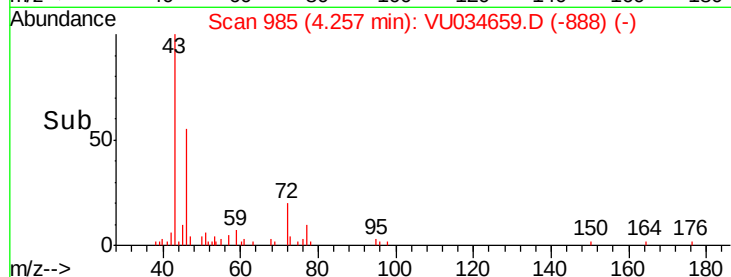
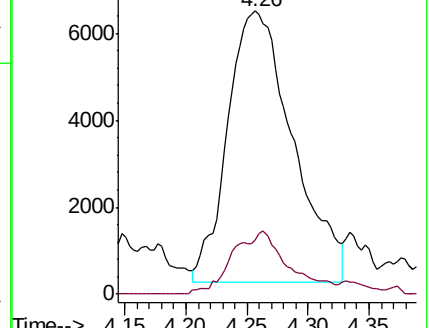
43 100

72 10.6 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034656.D (-963) (-)

Ion 72.00 (71.70 to 72.70): VU034656.D (-963) (-)



#25

Chloroform

Concen: 2.153 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VU034659.D

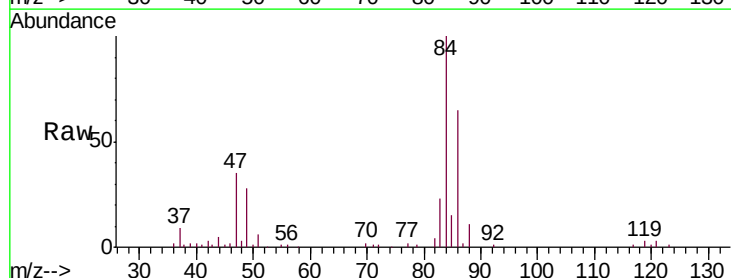
Acq: 19 Sep 2019 20:16

Tgt Ion: 83 Resp: 16102

Ion Ratio Lower Upper

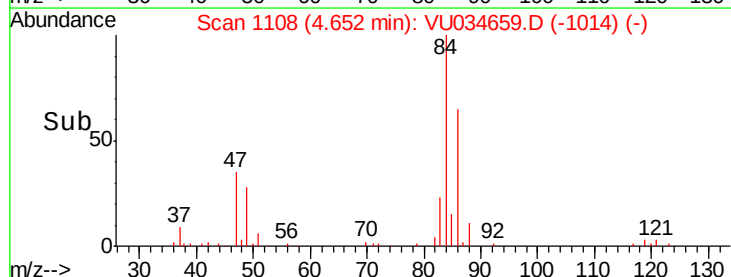
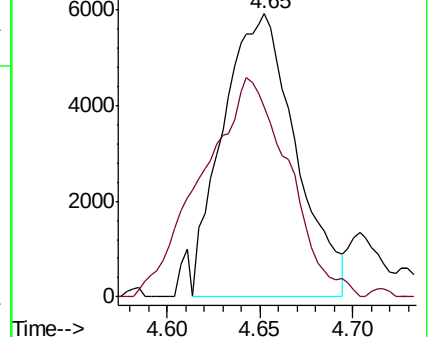
83 100

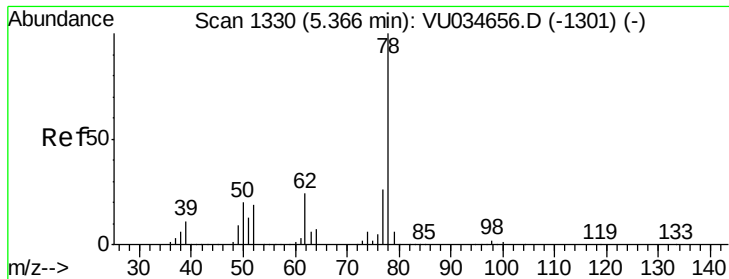
85 67.3 44.0 81.6



Abundance Ion 83.00 (82.70 to 83.70): VU034656.D (-1089) (-)

Ion 85.00 (84.70 to 85.70): VU034656.D (-1089) (-)

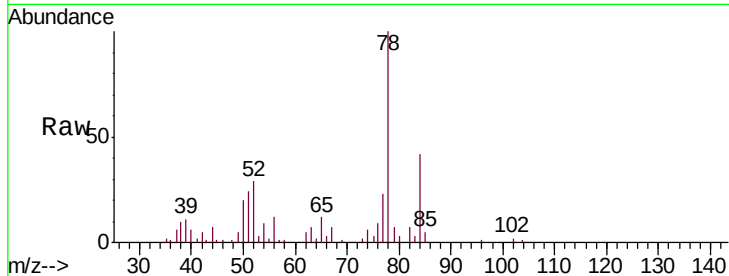




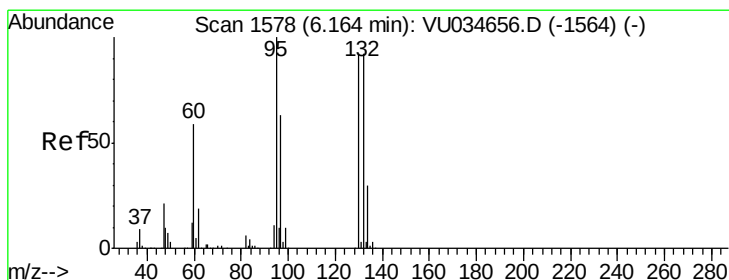
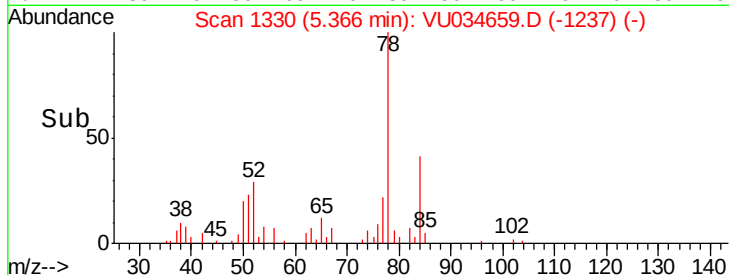
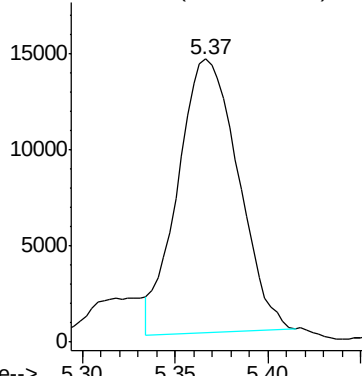
#33
Benzene
Concen: 2.051 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034659.D
Acq: 19 Sep 2019 20:16

Instrument :
MSVOA_U
ClientSampleId :
BPDF8

Tgt Ion: 78 Resp: 32119



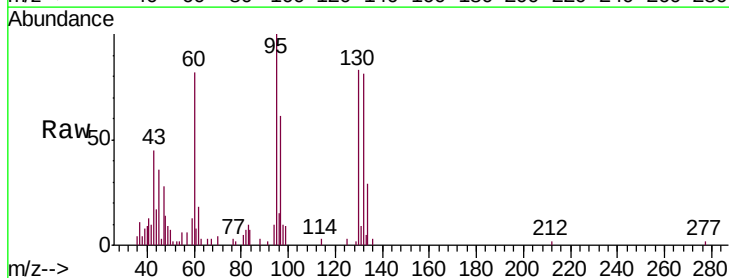
Abundance Ion 78.00 (77.70 to 78.70): VU0



#34
Trichloroethene
Concen: 2.987 ug/L
RT: 6.17 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VU034659.D
Acq: 19 Sep 2019 20:16

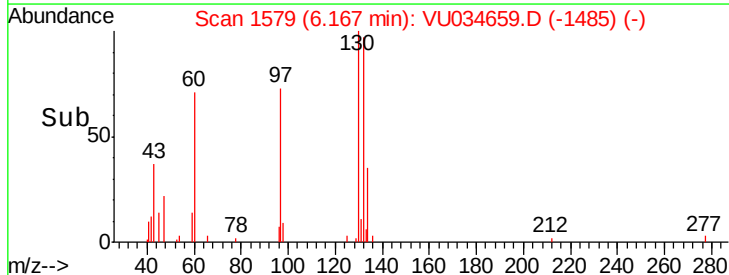
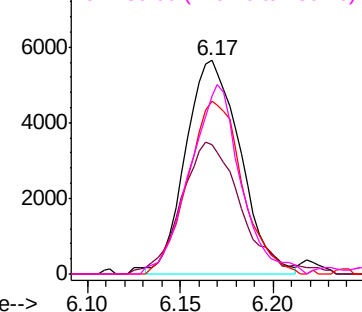
Tgt Ion: 95 Resp: 11553

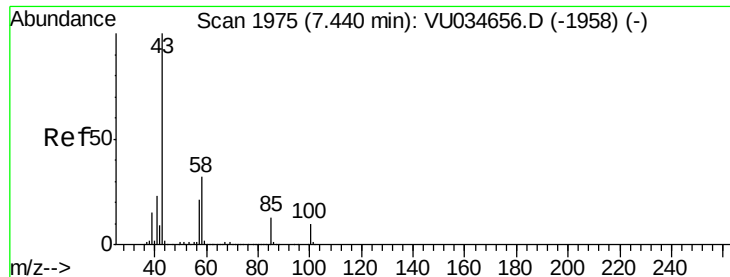
Ion	Ratio	Lower	Upper
95	100		
97	60.7	43.7	81.1
132	81.0	61.0	113.2
130	83.4	65.7	121.9



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

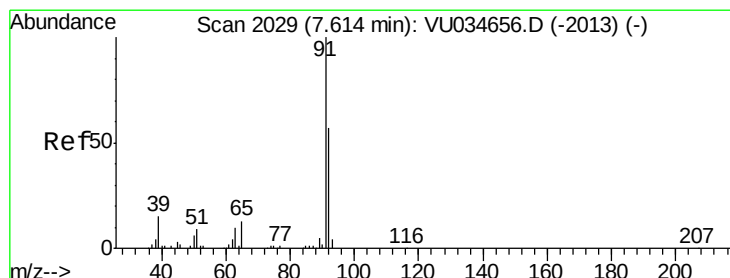
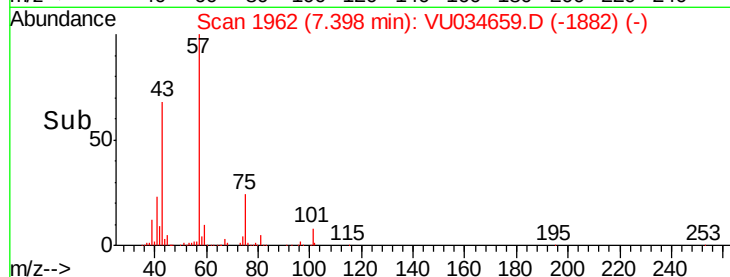
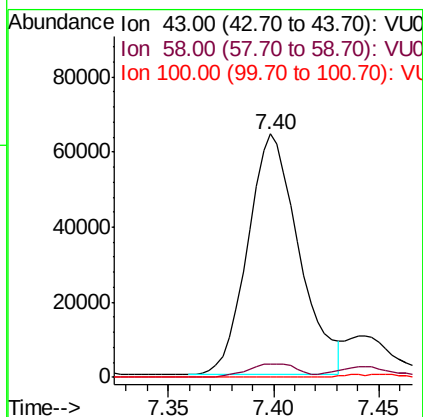
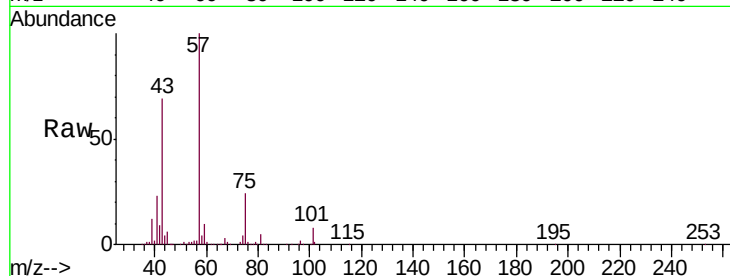




#40
 4-Methyl-2-pentanone
 Concen: 12.188 ug/L
 RT: 7.40 min Scan# 1962
 Delta R.T. -0.04 min
 Lab File: VU034659.D
 Acq: 19 Sep 2019 20:16

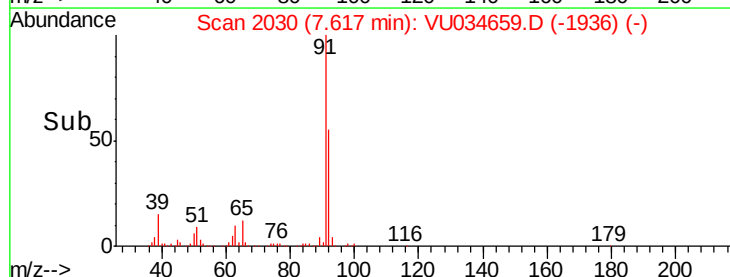
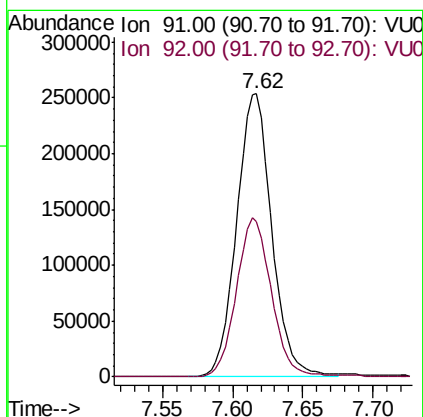
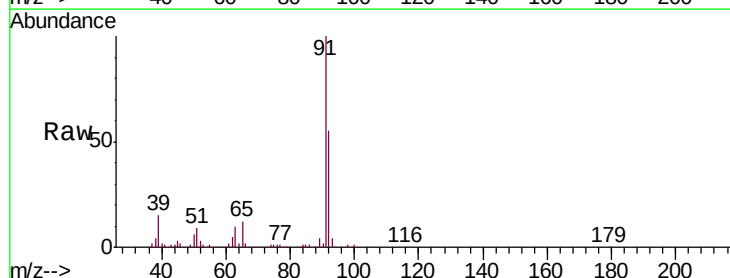
Instrument :
 MSVOA_U
 ClientSampled :
 BPDF8

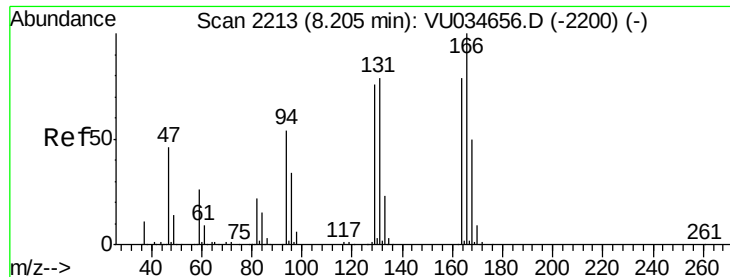
Tgt Ion: 43 Resp: 108500
 Ion Ratio Lower Upper
 43 100
 58 5.6 25.2 37.8#
 100 0.1 7.7 11.5#



#42
 Toluene
 Concen: 26.145 ug/L
 RT: 7.62 min Scan# 2030
 Delta R.T. 0.00 min
 Lab File: VU034659.D
 Acq: 19 Sep 2019 20:16

Tgt Ion: 91 Resp: 442486
 Ion Ratio Lower Upper
 91 100
 92 55.0 38.2 71.0





#46

Tetrachloroethene

Concen: 6.905 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

Instrument :

MSVOA_U

ClientSampleId :

BDF8

Tgt Ion:164 Resp: 18785

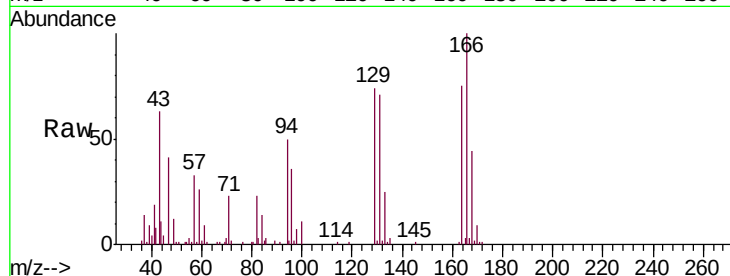
Ion Ratio Lower Upper

164 100

129 98.8 71.9 133.5

131 94.5 66.3 123.1

166 132.7 93.4 173.6

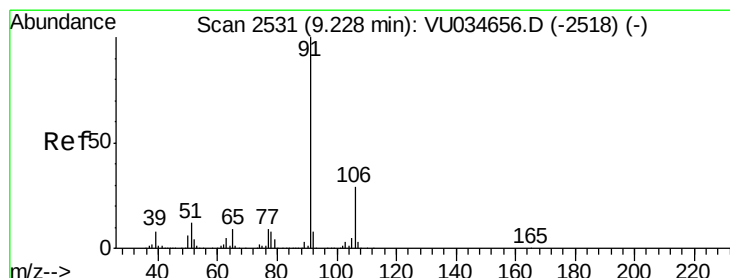
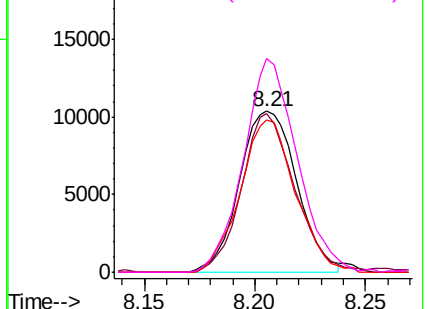
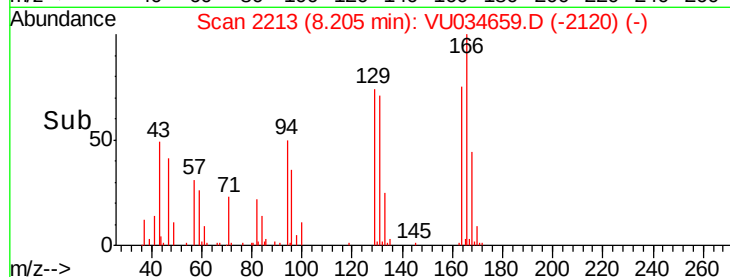


Abundance Ion 164.00 (163.70 to 164.70): V

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



#52

Ethylbenzene

Concen: 8.989 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034659.D

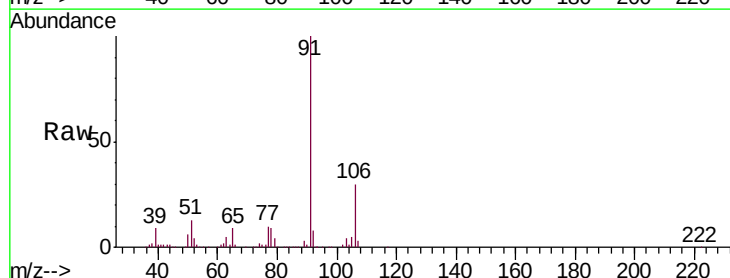
Acq: 19 Sep 2019 20:16

Tgt Ion: 91 Resp: 171319

Ion Ratio Lower Upper

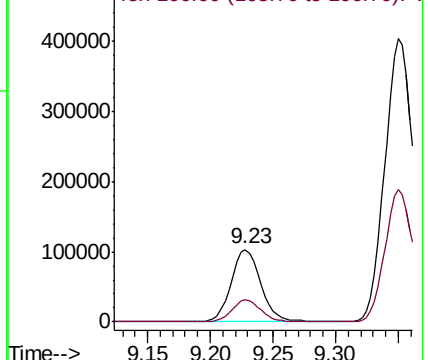
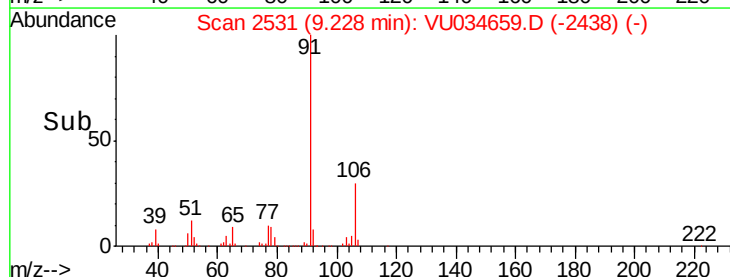
91 100

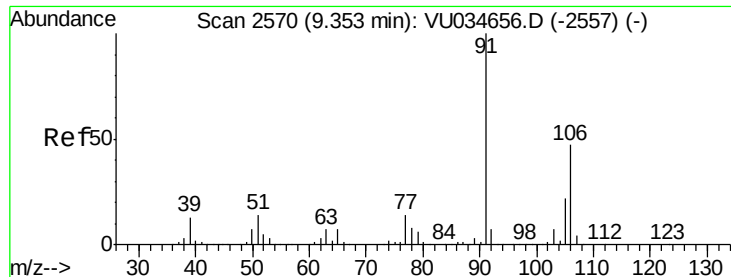
106 30.5 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 45.482 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

Instrument :

MSVOA_U

ClientSampleId :

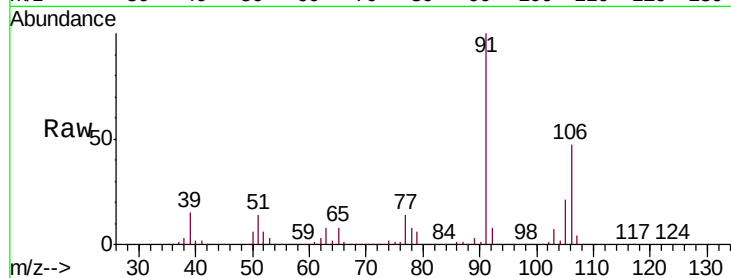
BDF8

Tgt Ion:106 Resp: 307018

Ion Ratio Lower Upper

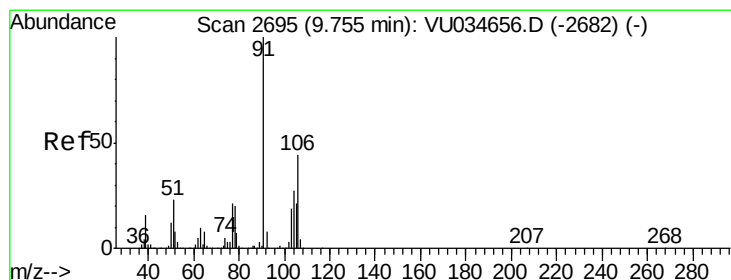
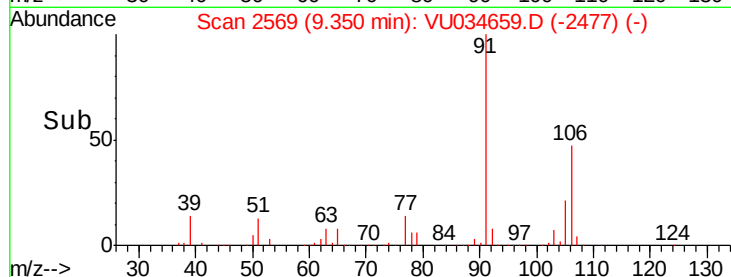
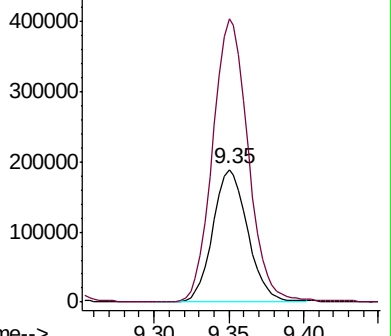
106 100

91 213.2 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 41.133 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034659.D

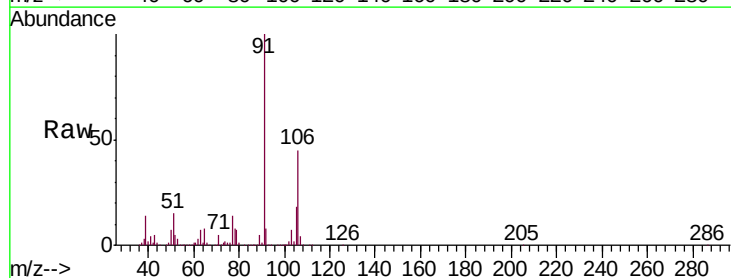
Acq: 19 Sep 2019 20:16

Tgt Ion:106 Resp: 274630

Ion Ratio Lower Upper

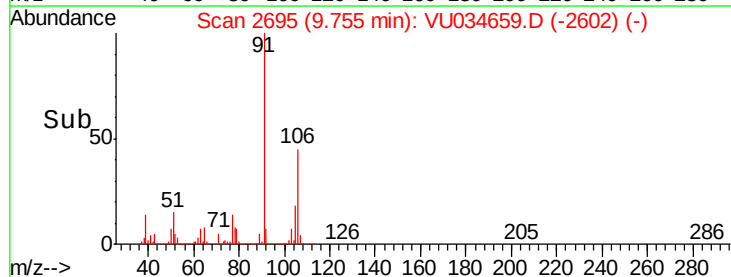
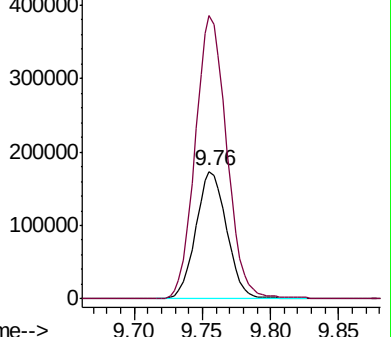
106 100

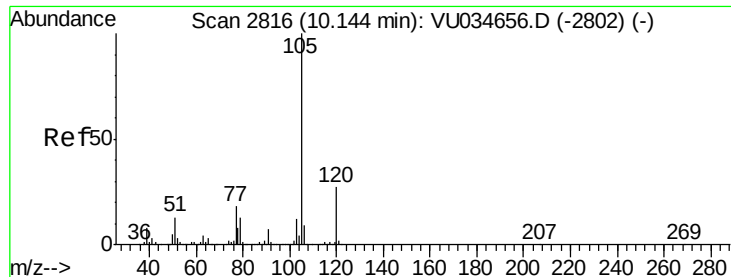
91 221.4 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 1.999 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

Instrument :

MSVOA_U

ClientSampleId :

BDF8

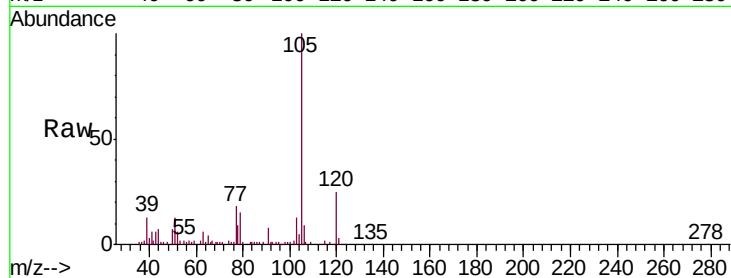
Tgt Ion:105 Resp: 35981

Ion Ratio Lower Upper

105 100

120 23.2 20.4 30.6

77 18.5 14.2 21.4

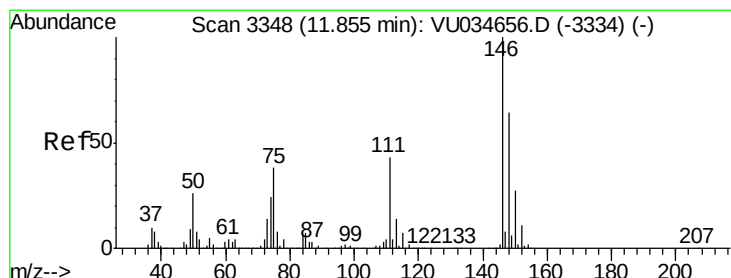
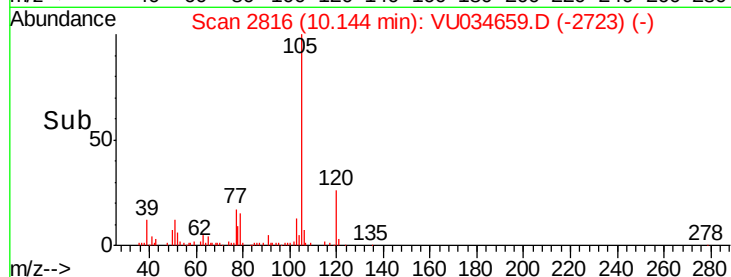
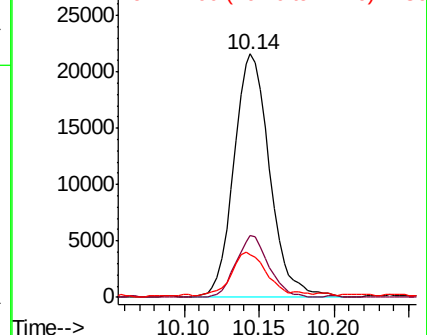


Abundance

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



#65

1,2-Dichlorobenzene

Concen: 9.446 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

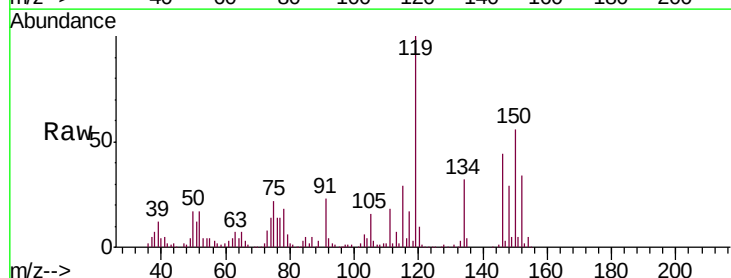
Tgt Ion:146 Resp: 67919

Ion Ratio Lower Upper

146 100

111 41.8 35.2 52.8

148 66.0 53.0 79.6

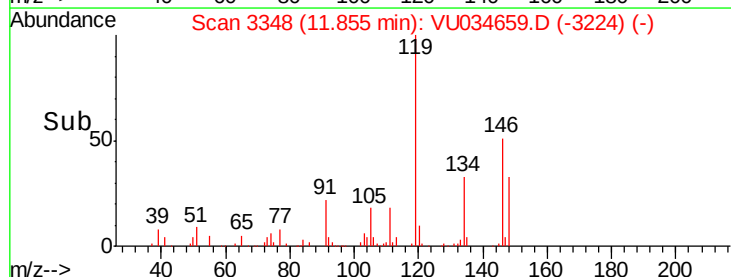
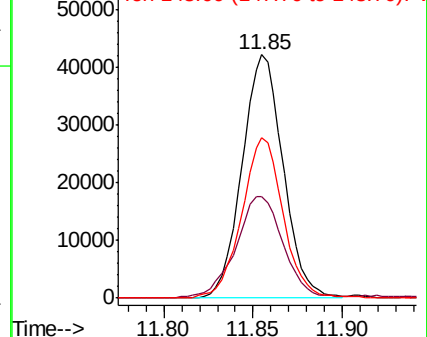


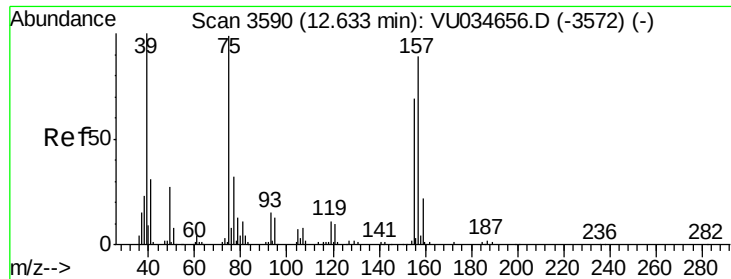
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

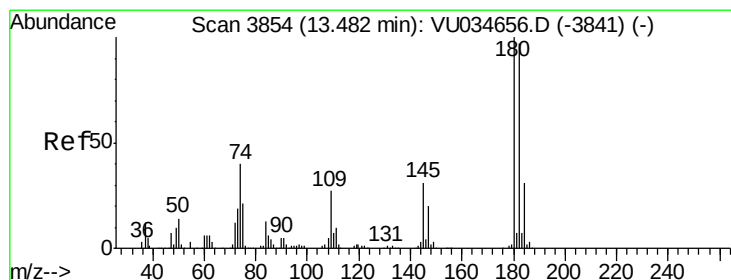
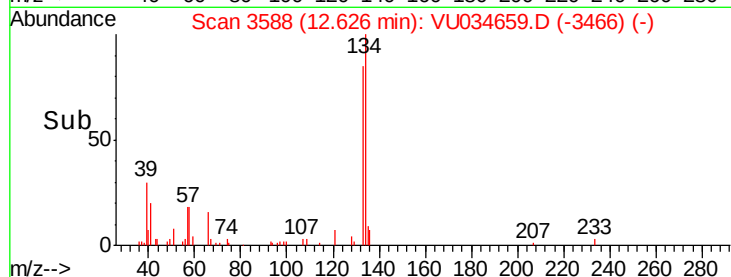
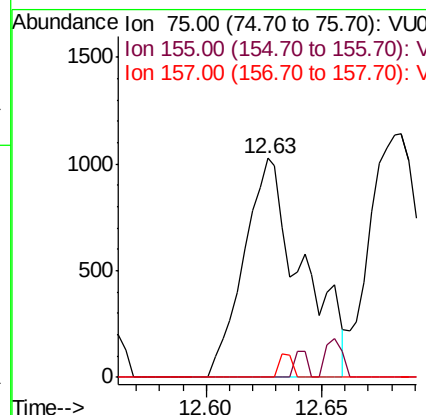
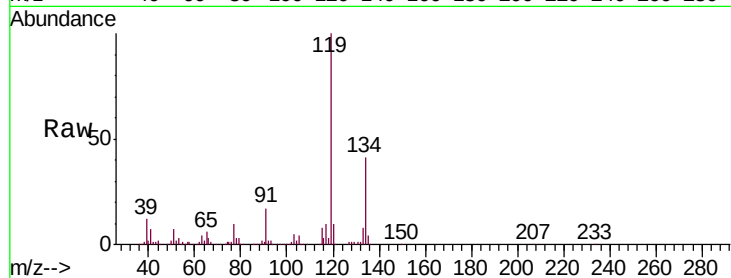




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.175 ug/L
 RT: 12.63 min Scan# 3588
 Delta R.T. -0.01 min
 Lab File: VU034659.D
 Acq: 19 Sep 2019 20:16

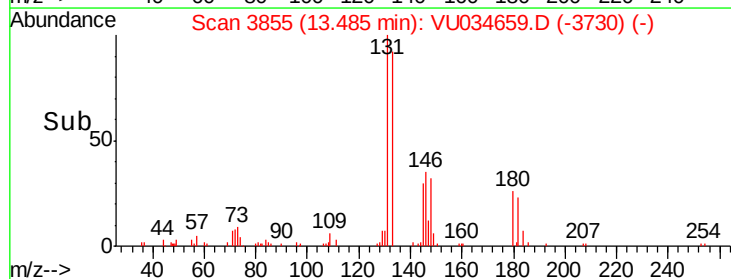
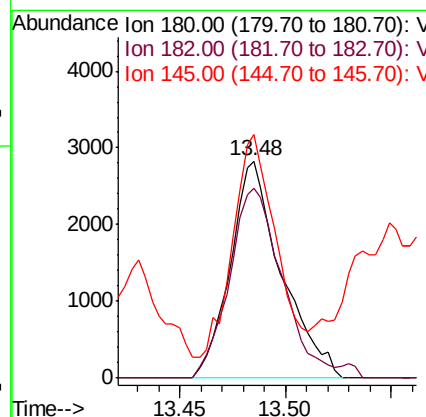
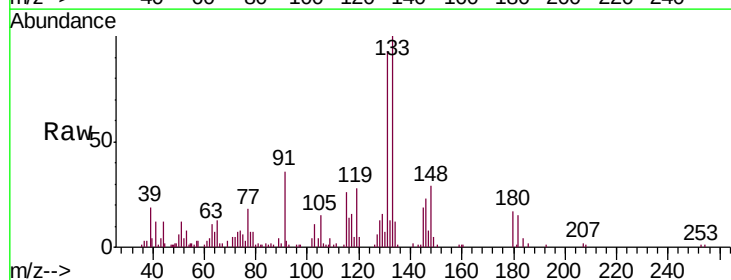
Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF8

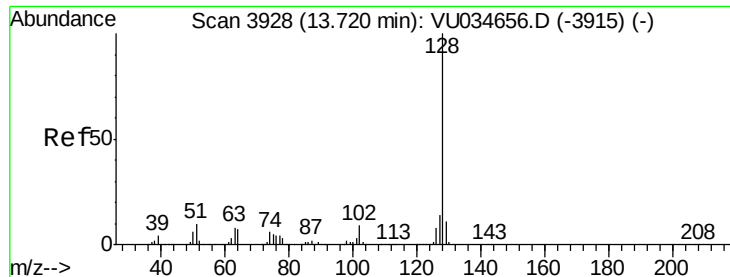
Tgt Ion: 75 Resp: 1796
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.7 82.1#
 157 0.0 69.9 104.9#



#68
 1,2,4-trichlorobenzene
 Concen: 1.267 ug/L
 RT: 13.48 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU034659.D
 Acq: 19 Sep 2019 20:16

Tgt Ion: 180 Resp: 4752
 Ion Ratio Lower Upper
 180 100
 182 90.0 75.7 113.5
 145 85.6 25.2 37.8#





#69

Naphthalene

Concen: 39.673 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

Instrument :

MSVOA_U

ClientSampleId :

BDF8

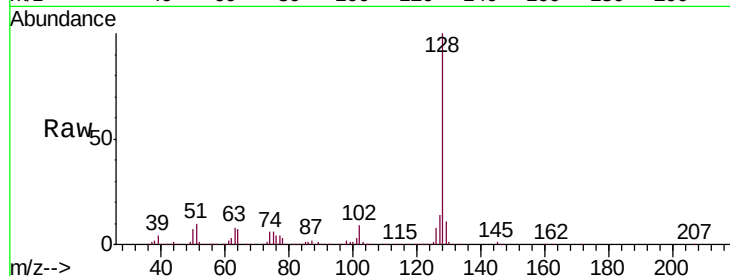
Tgt Ion:128 Resp: 514964

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

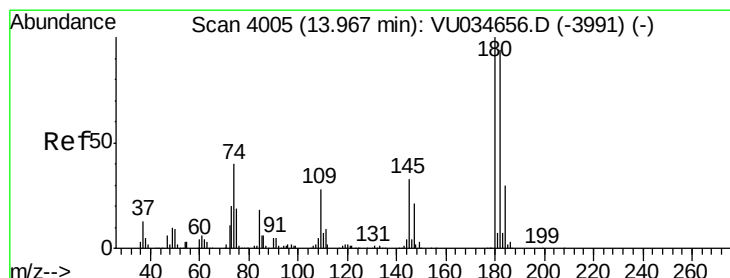
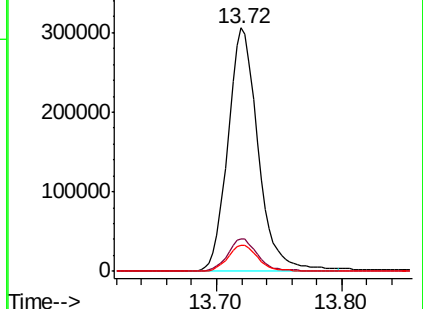
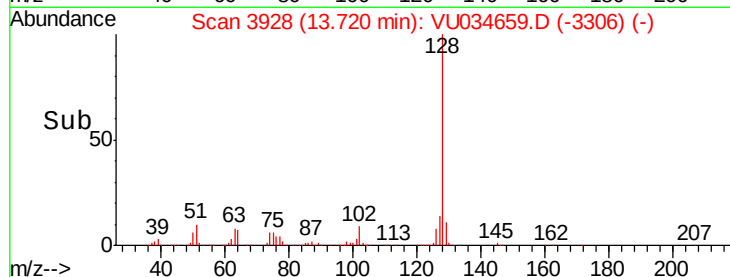
129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.978 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034659.D

Acq: 19 Sep 2019 20:16

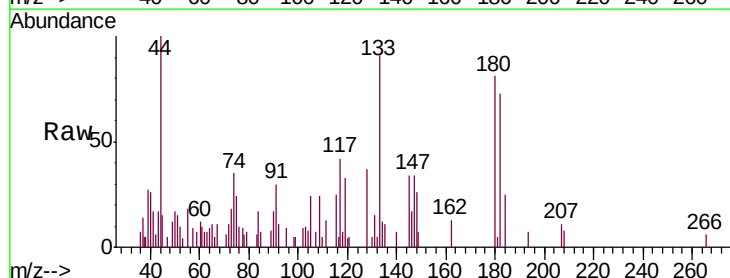
Tgt Ion:180 Resp: 3774

Ion Ratio Lower Upper

180 100

182 95.9 79.2 118.8

145 8.3 26.0 39.0#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

