

Data File : VU034669.D
Acq On : 20 Sep 2019 00:10
Operator : JC/SP
Sample : K4895-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDH3

Quant Time: Sep 20 04:09:20 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	486894	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	468563	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	223606	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	219488	44.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.06%
7) Chloroethane-d5	1.67	69	178708	46.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.78%
11) 1,1-Dichloroethene-d2	2.26	63	295016	34.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.90%
21) 2-Butanone-d5	4.15	46	435908	114.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.11%
24) Chloroform-d	4.62	84	342148	47.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.44%
26) 1,2-Dichloroethane-d4	5.29	65	256614	48.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.34%
32) Benzene-d6	5.32	84	699040	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.26%
36) 1,2-Dichloropropane-d6	6.31	67	243070	47.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.76%
41) Toluene-d8	7.54	98	659148	47.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.40%
43) trans-1,3-Dichloropropene-	7.83	79	111510	45.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.74%
47) 2-Hexanone-d5	8.29	63	285406	111.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.94%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	329790	46.82	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.64%
64) 1,2-Dichlorobenzene-d4	11.84	152	232984	49.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.38%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2504	0.754 ug/L #	27
13) Acetone	2.31	43	78613	17.690 ug/L	98
16) Methylene chloride	2.68	84	5562	1.378 ug/L	90
20) cis-1,2-Dichloroethene	4.20	96	14706	3.611 ug/L	91
22) 2-Butanone	4.25	43	9437	1.785 ug/L	85
27) 1,2-Dichloroethane	5.37	62	8308	1.222 ug/L #	81
29) Cyclohexane	4.97	56	38447	4.971 ug/L	95
33) Benzene	5.37	78	733603	45.142 ug/L	100
34) Trichloroethene	6.16	95	98114	24.446 ug/L	98
35) Methylcyclohexane	6.39	83	32056	4.707 ug/L	93
37) 1,2-Dichloropropane	6.41	63	11041	2.282 ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	129572	14.026 ug/L	99
42) Toluene	7.61	91	6585254	374.955 ug/L	99
46) Tetrachloroethene	8.20	164	22238	7.877 ug/L	95
51) Chlorobenzene	9.10	112	24394	2.285 ug/L	97
52) Ethylbenzene	9.23	91	1380941	69.825 ug/L	100
53) m,p-Xylene	9.35	106	1922257	274.413 ug/L	97

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

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Quant Time: Sep 20 04:09:20 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

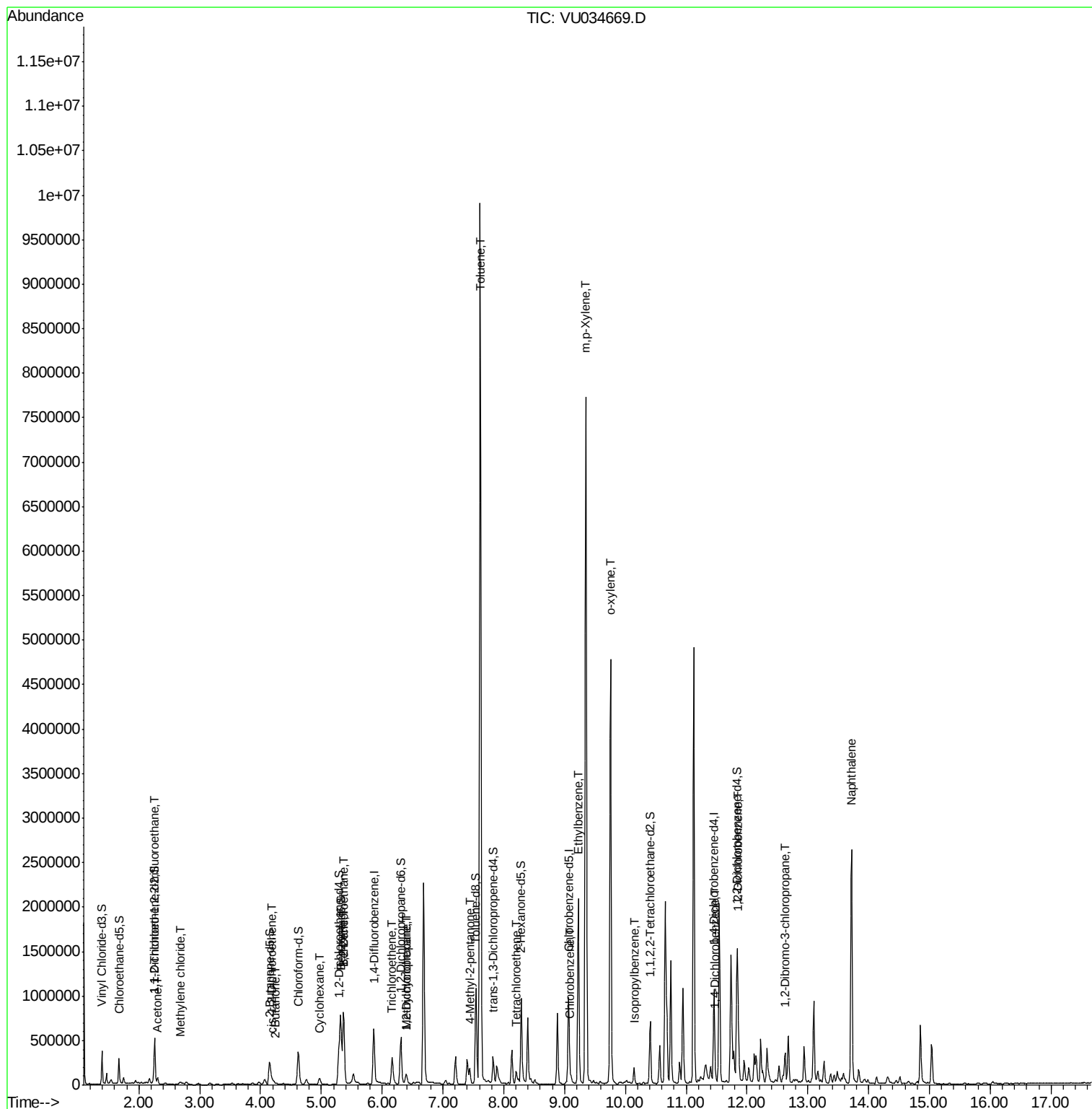
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.76	106	1112224	160.529	ug/L	98
56) Isopropylbenzene	10.14	105	104923	5.616	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	12194	1.546	ug/L	91
65) 1,2-Dichlorobenzene	11.85	146	110135	14.076	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.63	75	1837	1.105	ug/L #	10
69) Naphthalene	13.72	128	1879053	133.035	ug/L	100

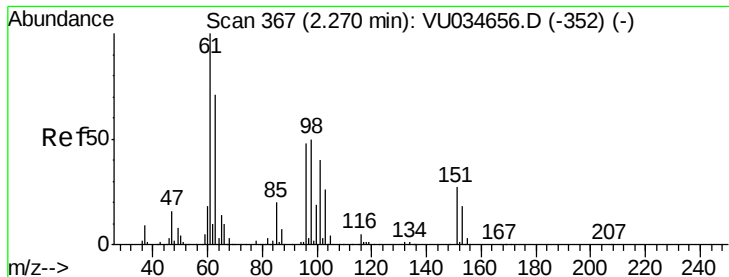
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.754 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

BFDH3

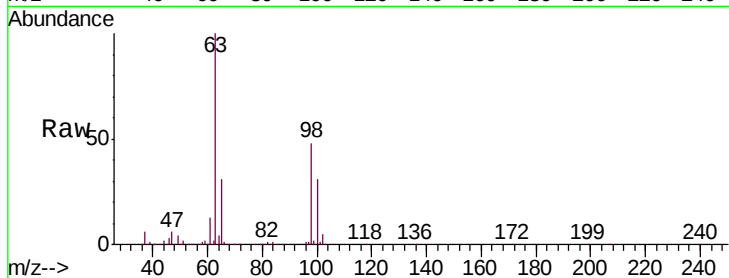
Tgt Ion:101 Resp: 2504

Ion Ratio Lower Upper

101 100

85 4.2 39.0 58.4#

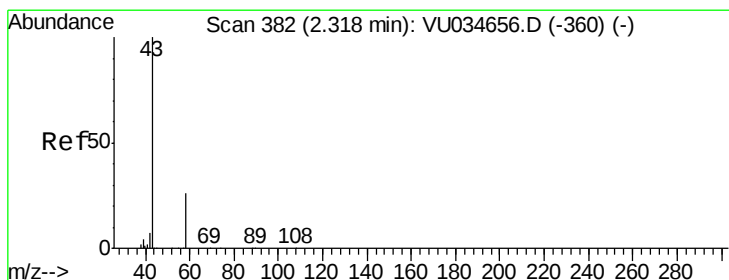
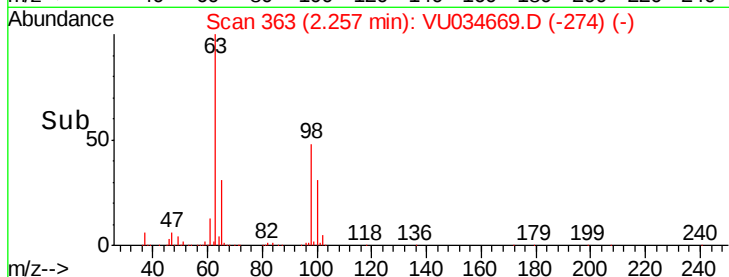
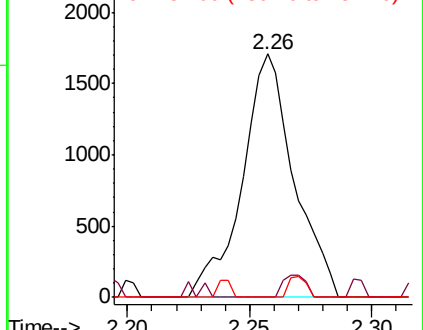
151 3.0 52.8 79.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 17.690 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034669.D

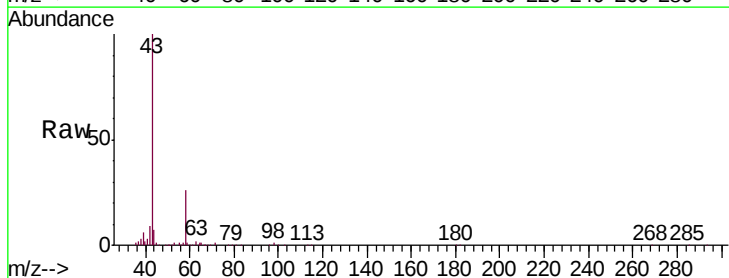
Acq: 20 Sep 2019 00:10

Tgt Ion: 43 Resp: 78613

Ion Ratio Lower Upper

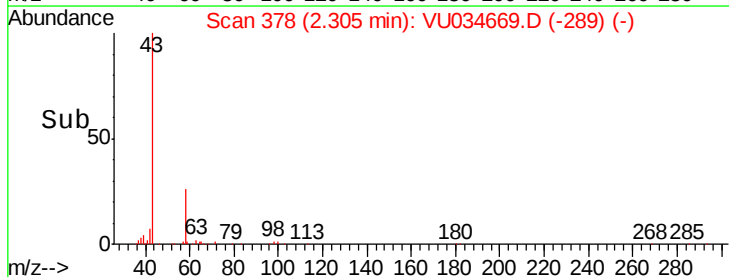
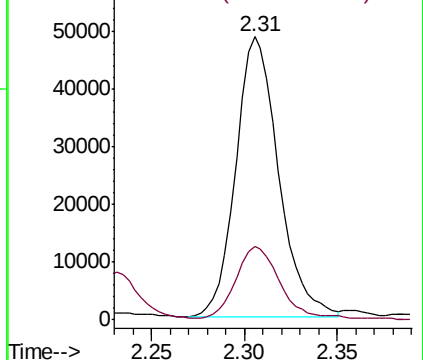
43 100

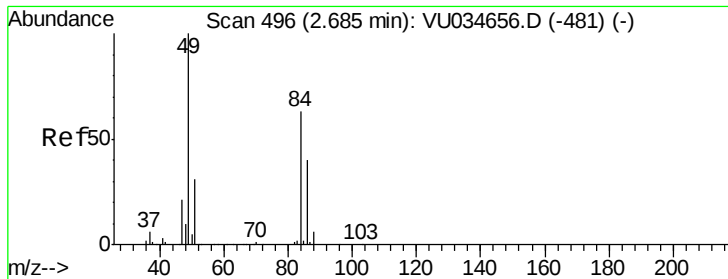
58 25.5 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

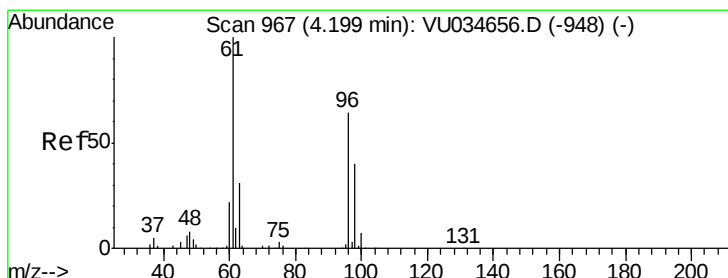
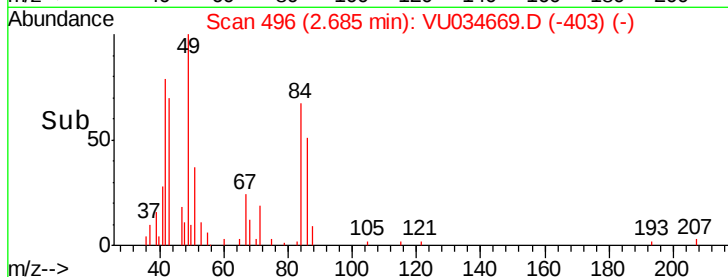
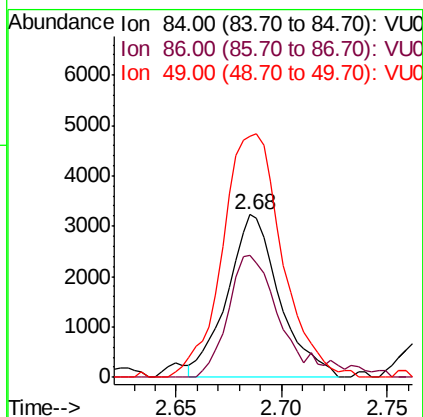
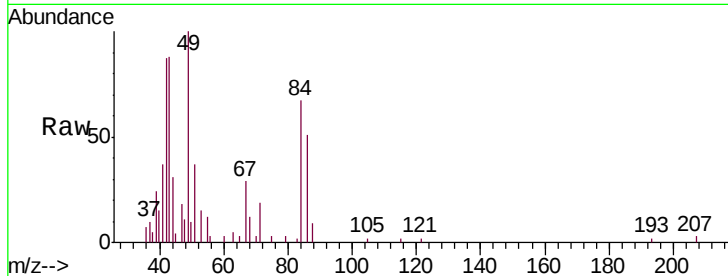




#16
Methylene chloride
Concen: 1.378 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034669.D
Acq: 20 Sep 2019 00:10

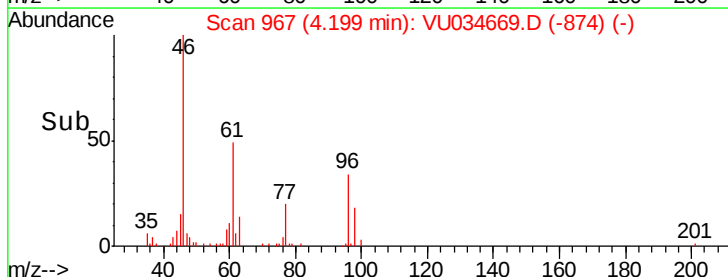
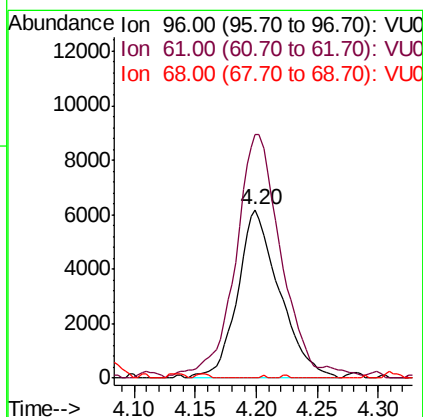
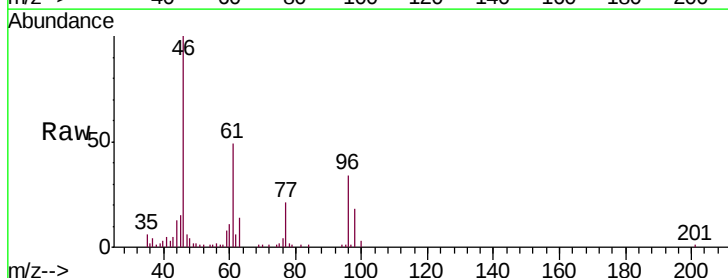
Instrument :
MSVOA_U
ClientSampled :
BFDH3

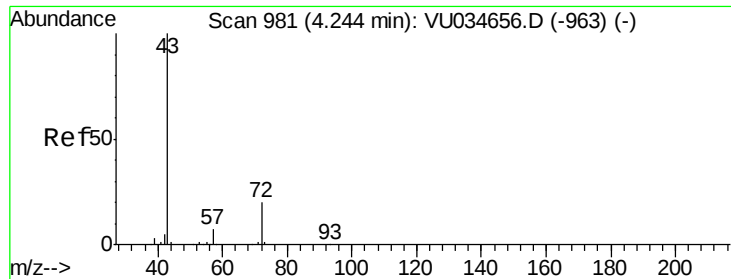
Tgt Ion: 84 Resp: 5562
Ion Ratio Lower Upper
84 100
86 75.3 43.0 80.0
49 148.3 109.7 203.7



#20
cis-1,2-Dichloroethene
Concen: 3.611 ug/L
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU034669.D
Acq: 20 Sep 2019 00:10

Tgt Ion: 96 Resp: 14706
Ion Ratio Lower Upper
96 100
61 144.4 108.8 202.2
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 1.785 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

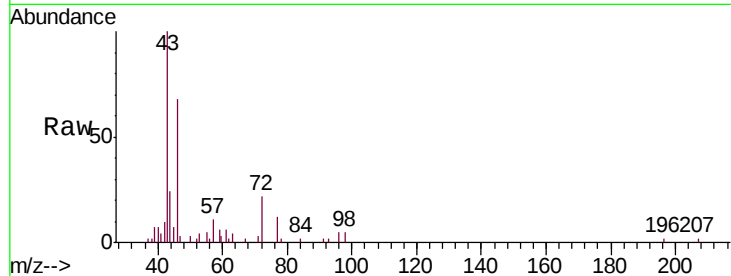
BFDH3

Tgt Ion: 43 Resp: 9437

Ion Ratio Lower Upper

43 100

72 13.4 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) (-)

8000

6000

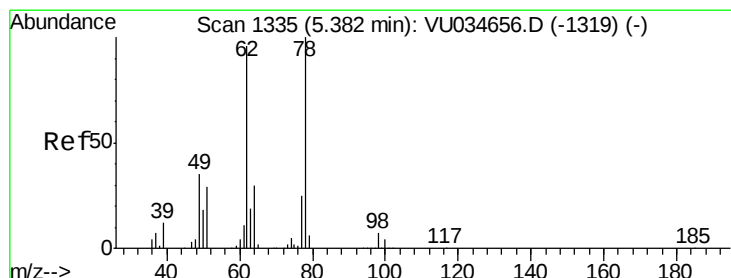
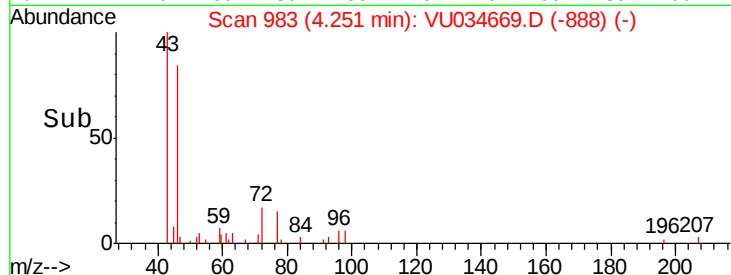
4000

2000

0

4.20 4.22 4.24 4.26

Time-->



#27

1,2-Dichloroethane

Concen: 1.222 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VU034669.D

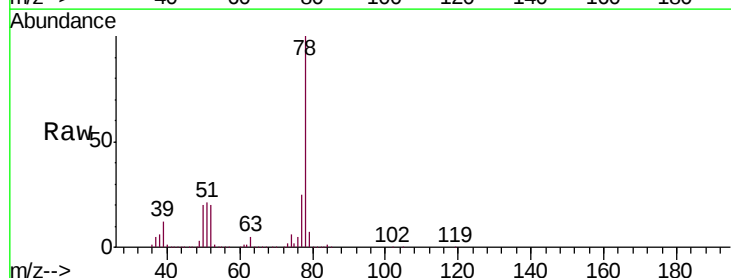
Acq: 20 Sep 2019 00:10

Tgt Ion: 62 Resp: 8308

Ion Ratio Lower Upper

62 100

98 0.0 5.3 7.9#



Abundance Ion 62.00 (61.70 to 62.70): VU034656.D (-1319) (-)

Ion 98.00 (97.70 to 98.70): VU034656.D (-1319) (-)

5000

4000

3000

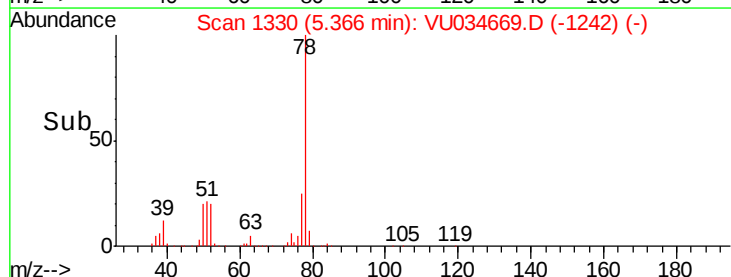
2000

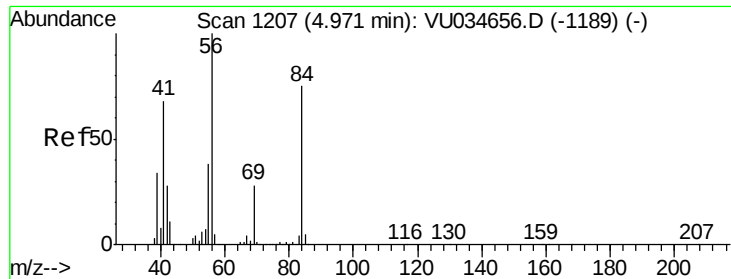
1000

0

5.35 5.40

Time-->

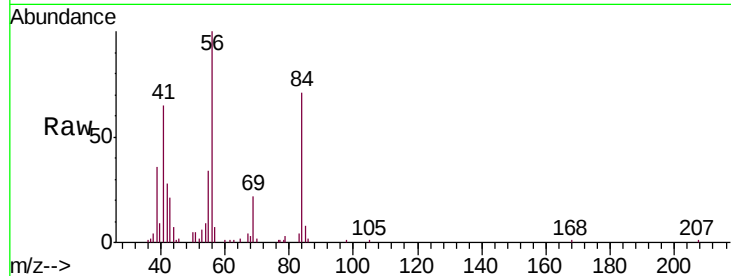




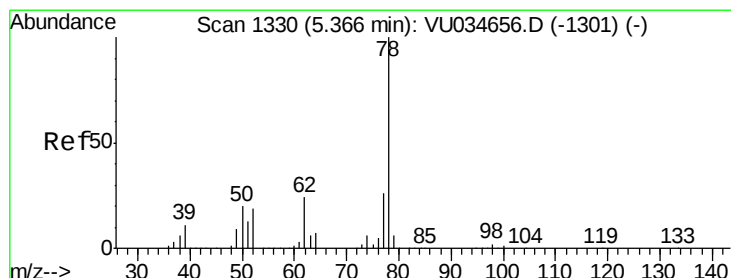
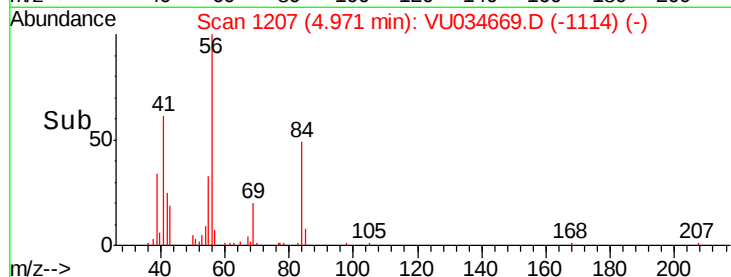
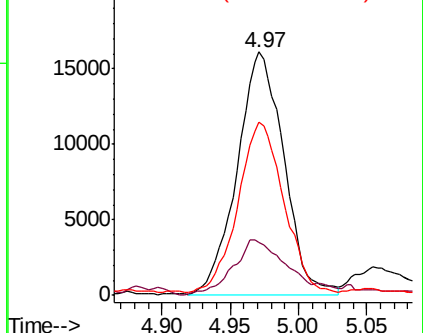
#29
Cyclohexane
Concen: 4.971 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034669.D
Acq: 20 Sep 2019 00:10

Instrument :
MSVOA_U
ClientSampleId :
BFDH3

Tgt Ion: 56 Resp: 38447
Ion Ratio Lower Upper
56 100
69 25.1 21.7 32.5
84 68.7 58.8 88.2

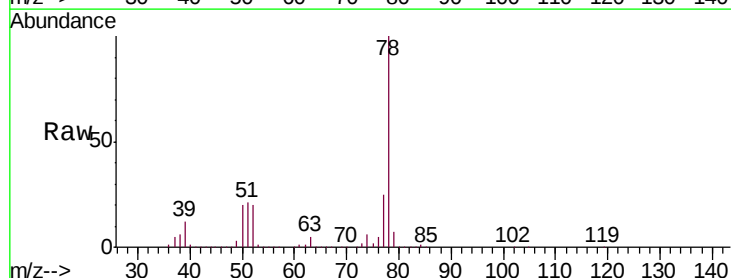


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

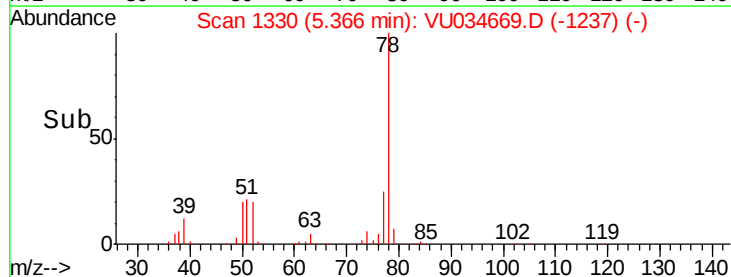
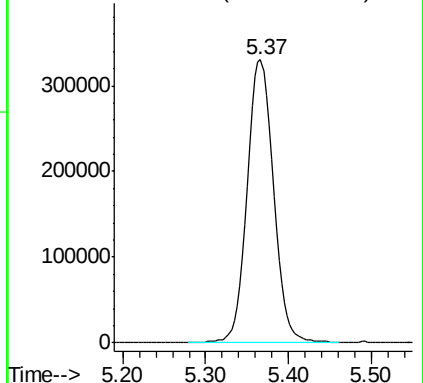


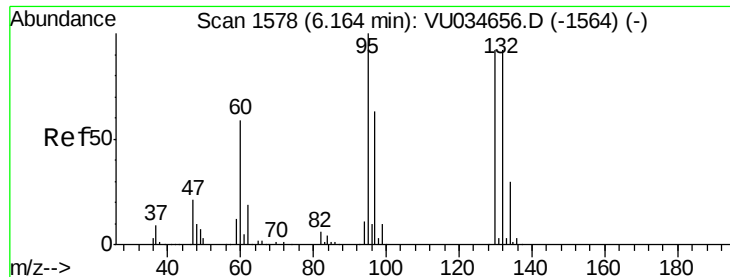
#33
Benzene
Concen: 45.142 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034669.D
Acq: 20 Sep 2019 00:10

Tgt Ion: 78 Resp: 733603



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 24.446 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

BFDH3

Tgt Ion: 95 Resp: 98114

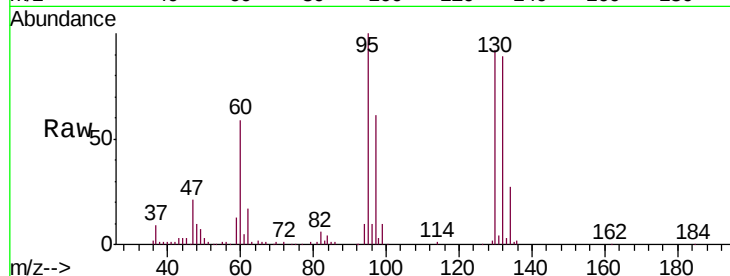
Ion Ratio Lower Upper

95 100

97 61.2 43.7 81.1

132 88.8 61.0 113.2

130 91.6 65.7 121.9

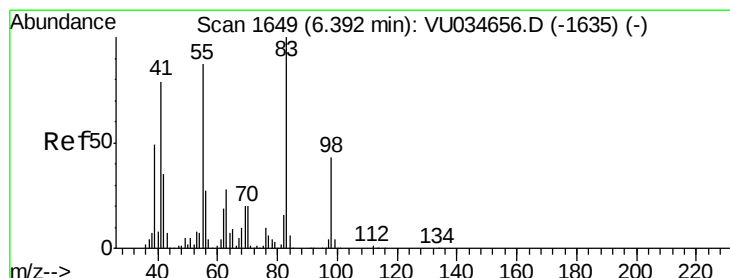
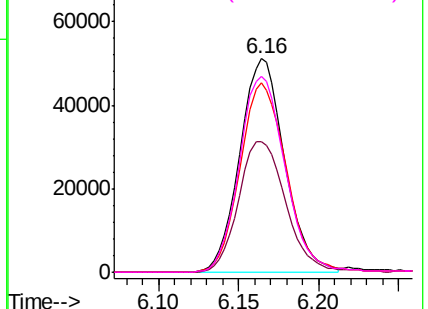
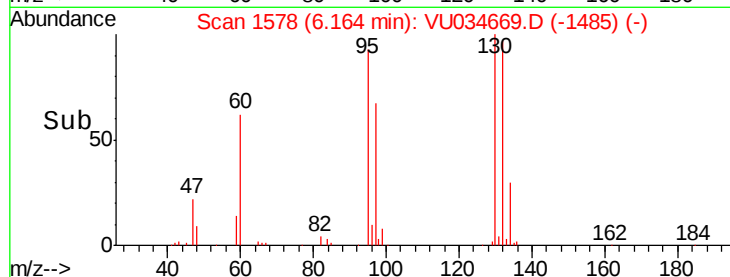


Abundance Ion 95.00 (94.70 to 95.70): VU034669.D (-1564) (-)

Ion 97.00 (96.70 to 97.70): VU034669.D (-1564) (-)

Ion 132.00 (131.70 to 132.70): VU034669.D (-1564) (-)

Ion 130.00 (129.70 to 130.70): VU034669.D (-1564) (-)



#35

Methylcyclohexane

Concen: 4.707 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

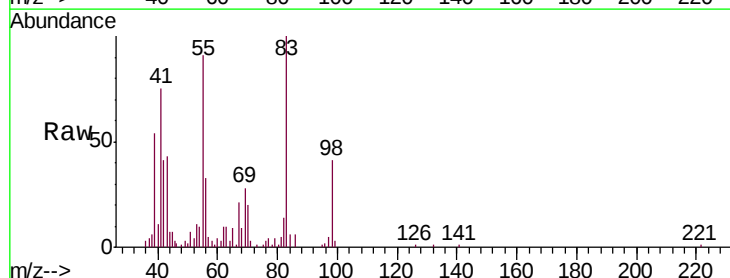
Tgt Ion: 83 Resp: 32056

Ion Ratio Lower Upper

83 100

55 97.9 71.6 107.4

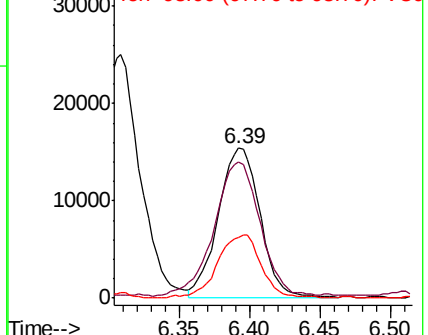
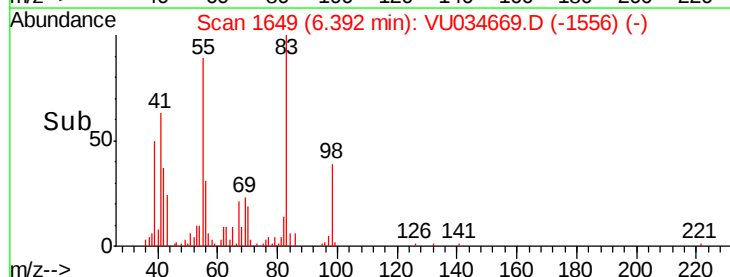
98 42.7 35.7 53.5

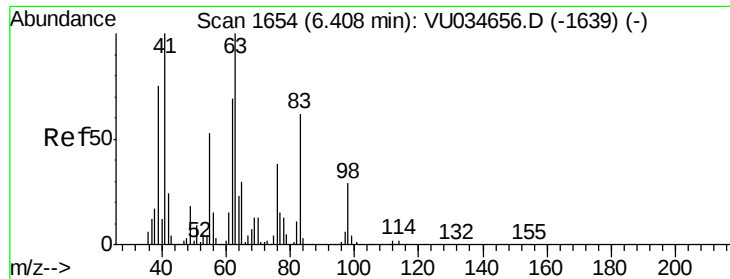


Abundance Ion 83.00 (82.70 to 83.70): VU034669.D (-1556) (-)

Ion 55.00 (54.70 to 55.70): VU034669.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU034669.D (-1556) (-)

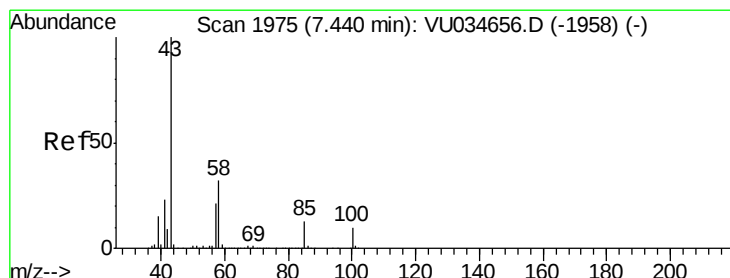
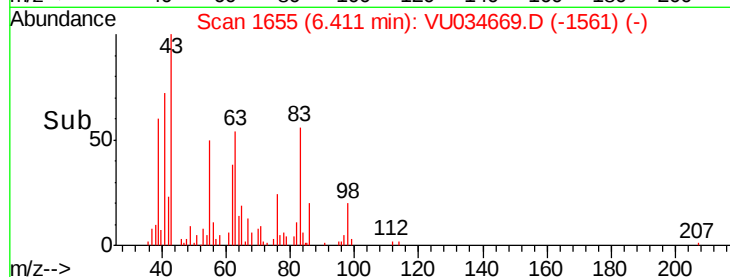
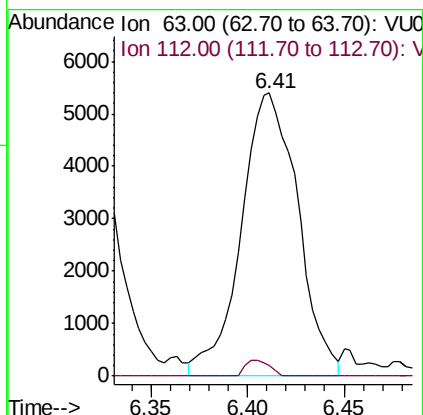
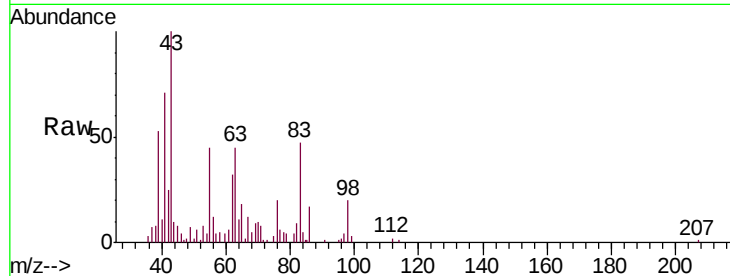




#37
 1,2-Dichloropropane
 Concen: 2.282 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034669.D
 Acq: 20 Sep 2019 00:10

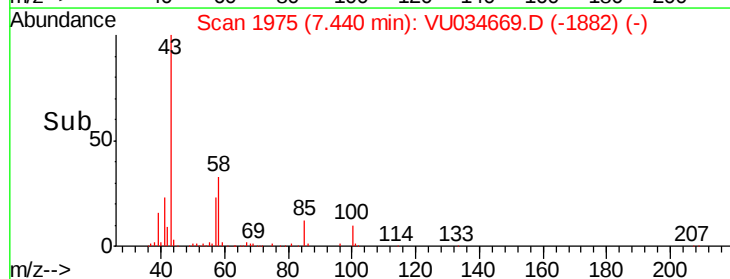
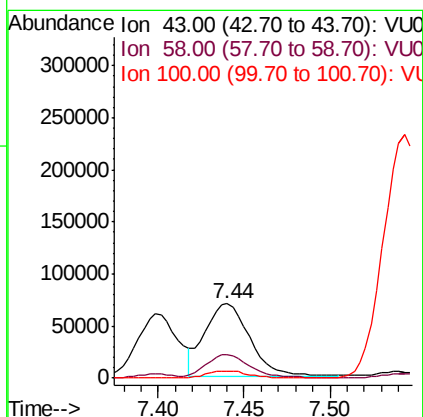
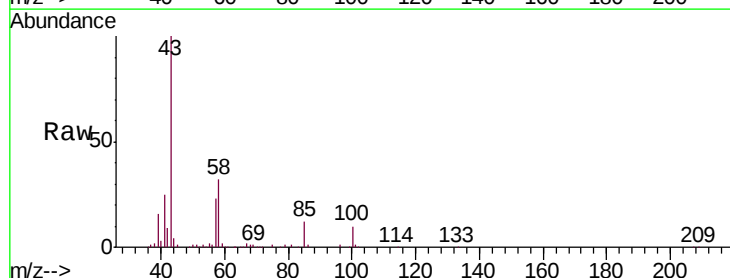
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH3

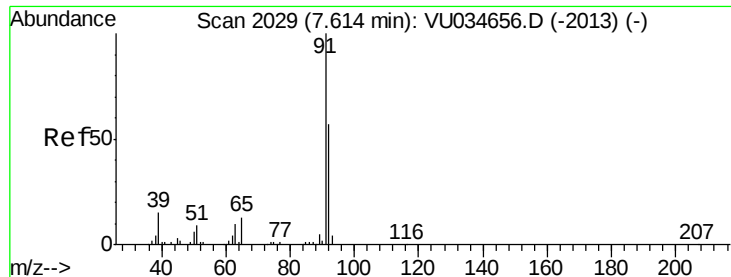
Tgt Ion: 63 Resp: 11041
 Ion Ratio Lower Upper
 63 100
 112 2.4 2.4 3.6



#40
 4-Methyl-2-pentanone
 Concen: 14.026 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034669.D
 Acq: 20 Sep 2019 00:10

Tgt Ion: 43 Resp: 129572
 Ion Ratio Lower Upper
 43 100
 58 32.1 25.2 37.8
 100 9.6 7.7 11.5





#42

Toluene

Concen: 374.955 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

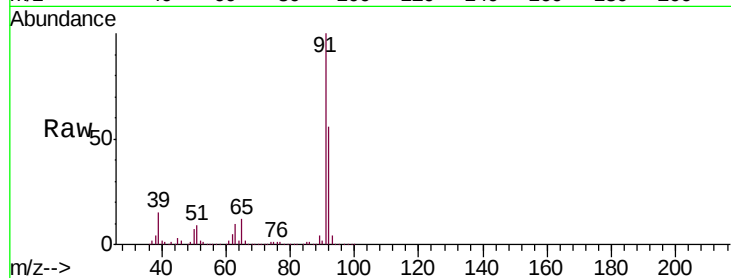
BFDH3

Tgt Ion: 91 Resp: 6585254

Ion Ratio Lower Upper

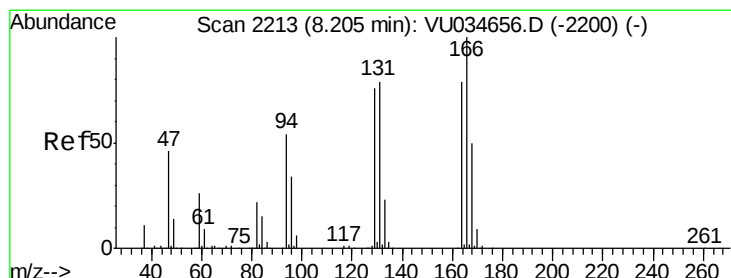
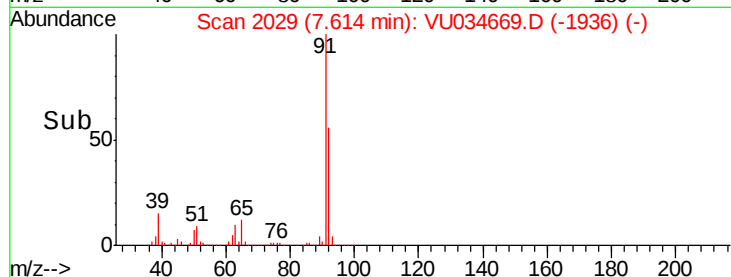
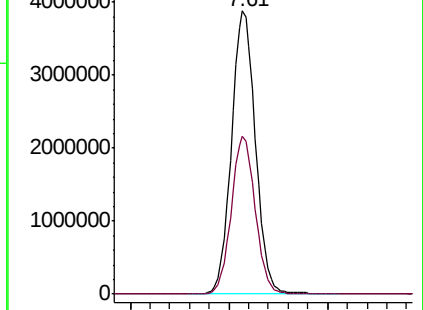
91 100

92 55.6 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034656.D (-2013) (-)

Ion 92.00 (91.70 to 92.70): VU034656.D (-2013) (-)



#46

Tetrachloroethene

Concen: 7.877 ug/L

RT: 8.20 min Scan# 2212

Delta R.T. -0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Tgt Ion: 164 Resp: 22238

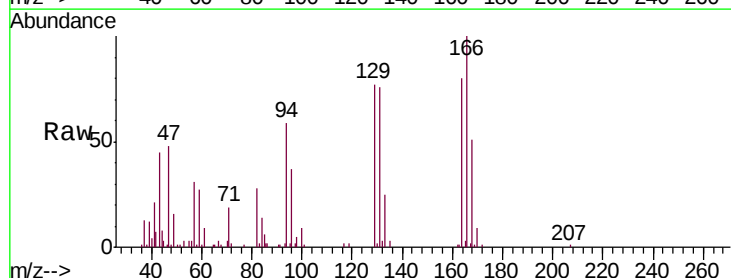
Ion Ratio Lower Upper

164 100

129 97.1 71.9 133.5

131 94.7 66.3 123.1

166 125.3 93.4 173.6

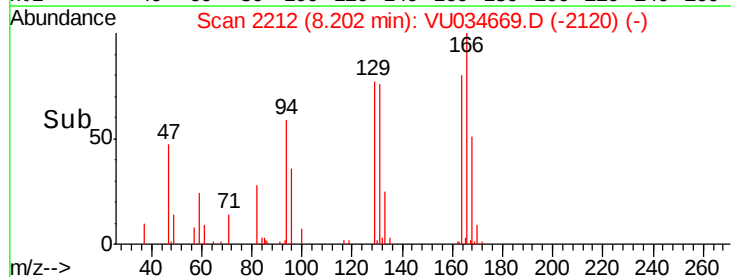
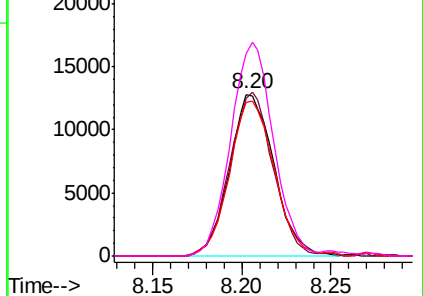


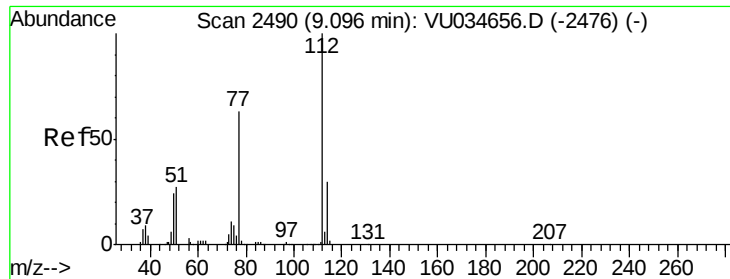
Abundance Ion 164.00 (163.70 to 164.70): VU034656.D (-2200) (-)

Ion 129.00 (128.70 to 129.70): VU034656.D (-2200) (-)

Ion 131.00 (130.70 to 131.70): VU034656.D (-2200) (-)

Ion 166.00 (165.70 to 166.70): VU034656.D (-2200) (-)





#51

Chlorobenzene

Concen: 2.285 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

BFDH3

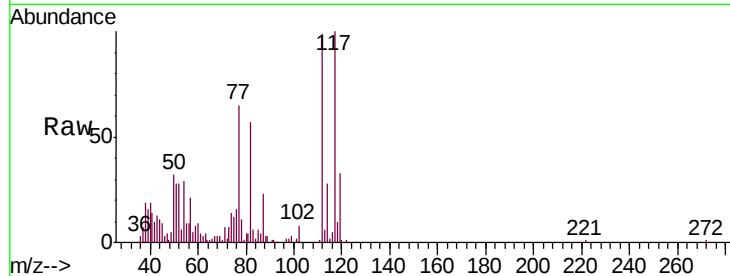
Tgt Ion:112 Resp: 24394

Ion Ratio Lower Upper

112 100

114 28.3 22.8 42.4

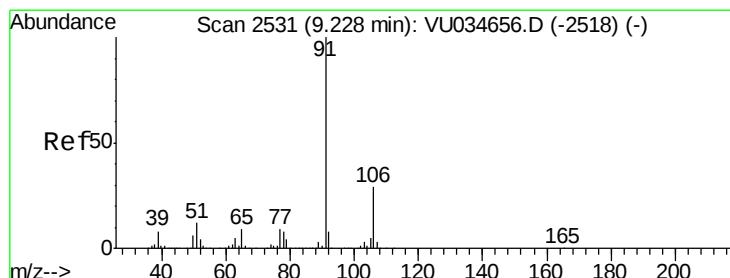
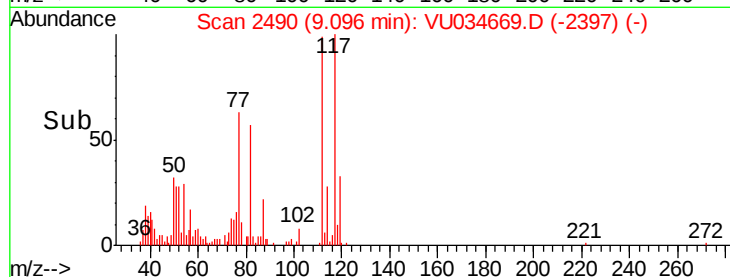
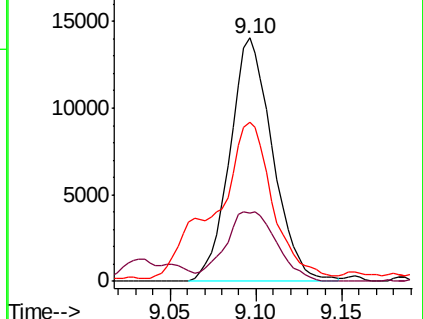
77 65.4 51.5 77.3



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0



#52

Ethylbenzene

Concen: 69.825 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034669.D

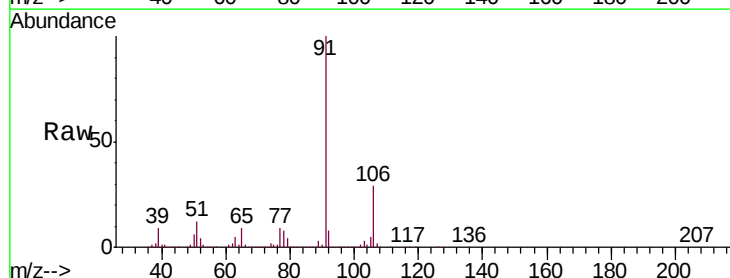
Acq: 20 Sep 2019 00:10

Tgt Ion: 91 Resp: 1380941

Ion Ratio Lower Upper

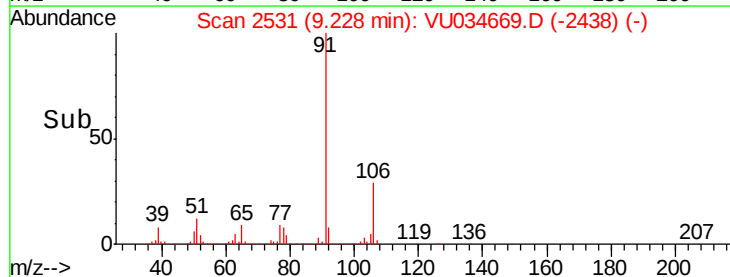
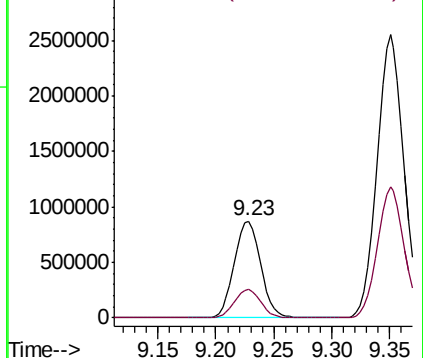
91 100

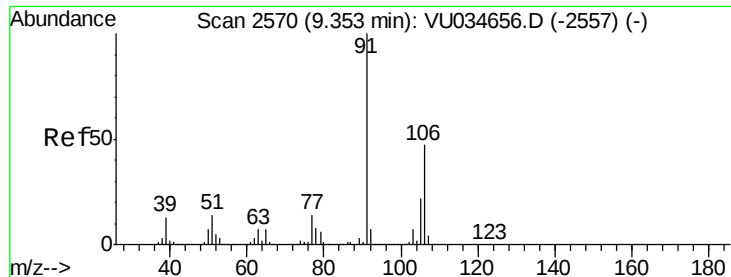
106 29.3 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

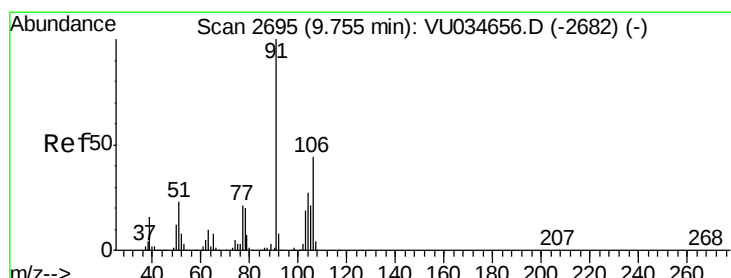
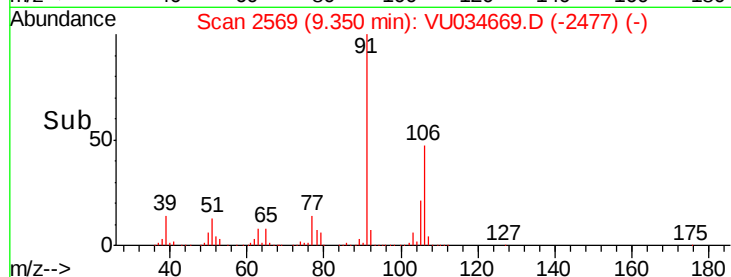
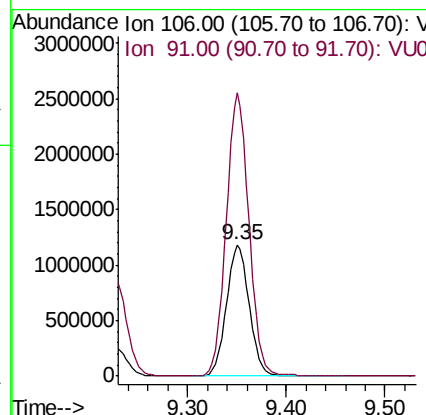
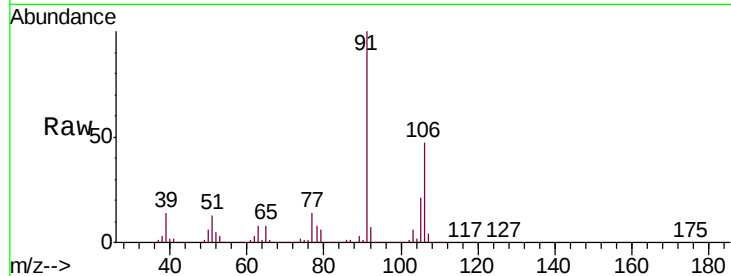




#53
 m,p-Xylene
 Concen: 274.413 ug/L
 RT: 9.35 min Scan# 2569
 Delta R.T. -0.00 min
 Lab File: VU034669.D
 Acq: 20 Sep 2019 00:10

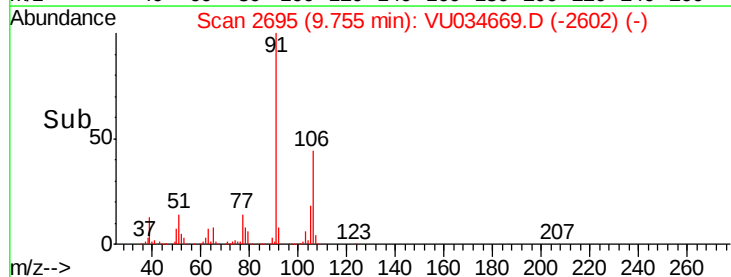
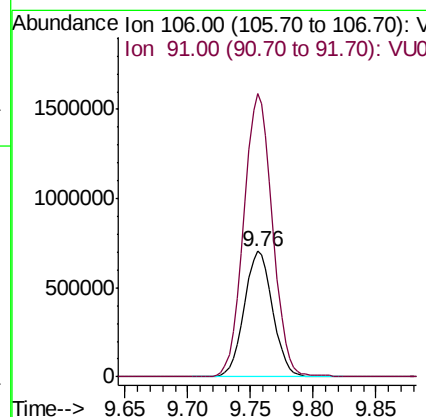
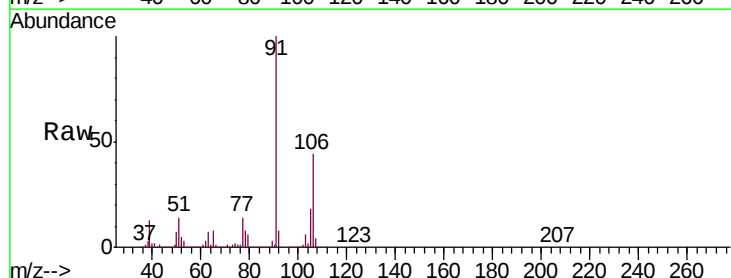
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH3

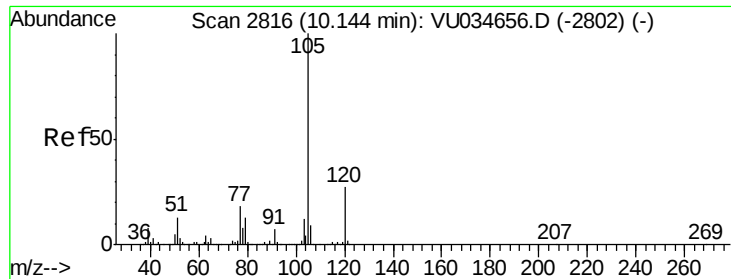
Tgt Ion:106 Resp: 1922257
 Ion Ratio Lower Upper
 106 100
 91 215.0 146.9 272.7



#54
 o-xylene
 Concen: 160.529 ug/L
 RT: 9.76 min Scan# 2695
 Delta R.T. 0.00 min
 Lab File: VU034669.D
 Acq: 20 Sep 2019 00:10

Tgt Ion:106 Resp: 1112224
 Ion Ratio Lower Upper
 106 100
 91 225.0 155.6 289.0





#56

Isopropylbenzene

Concen: 5.616 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

BFDH3

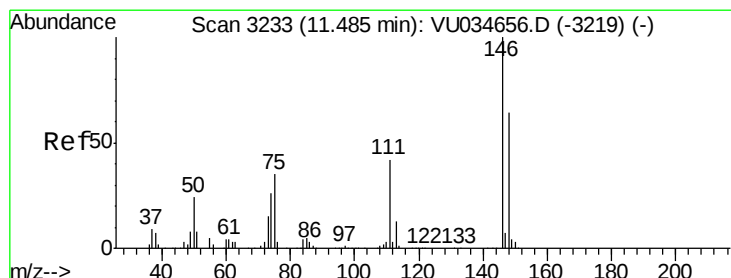
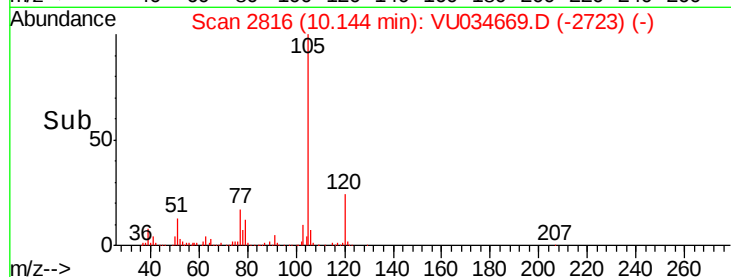
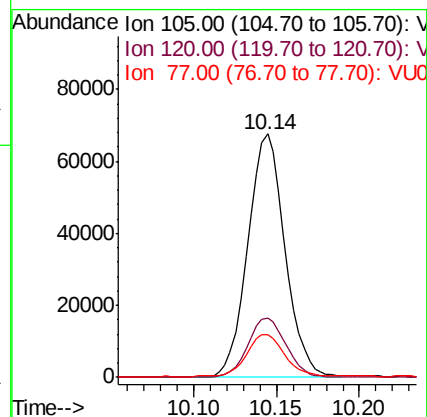
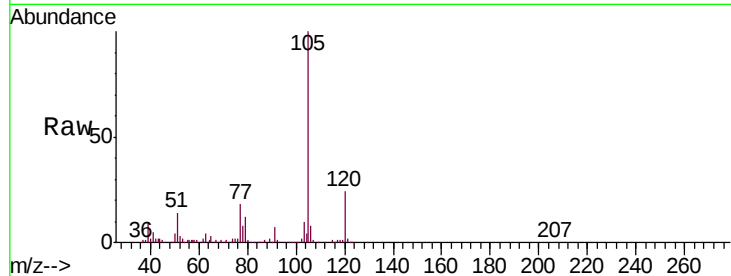
Tgt Ion:105 Resp: 104923

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

77 17.3 14.2 21.4



#63

1,4-Dichlorobenzene

Concen: 1.546 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

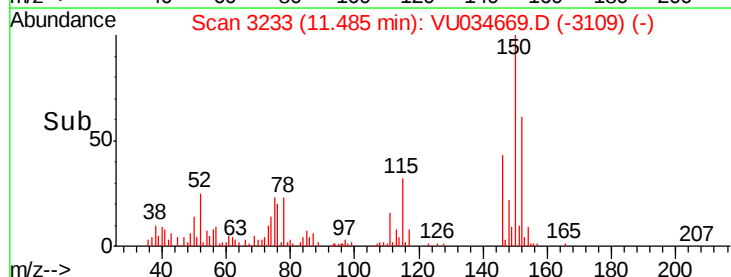
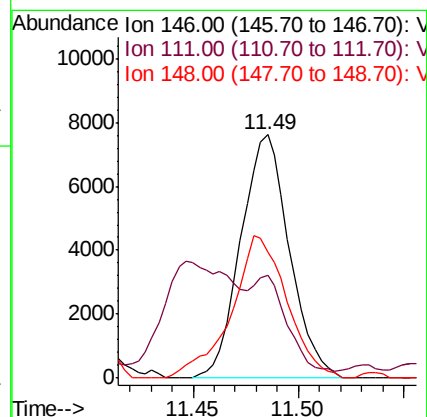
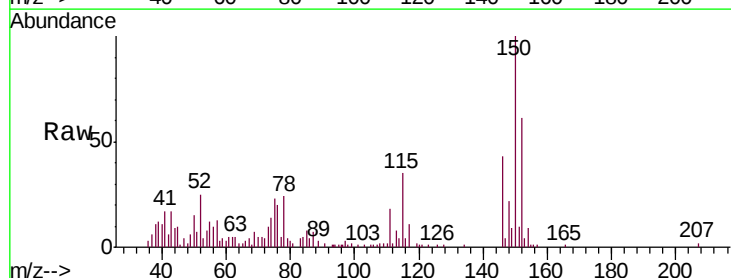
Tgt Ion:146 Resp: 12194

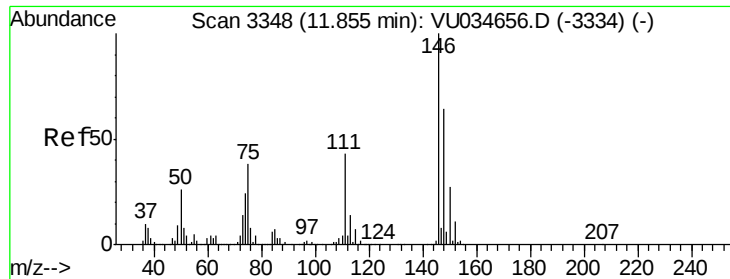
Ion Ratio Lower Upper

146 100

111 42.2 29.5 54.9

148 51.5 44.4 82.4

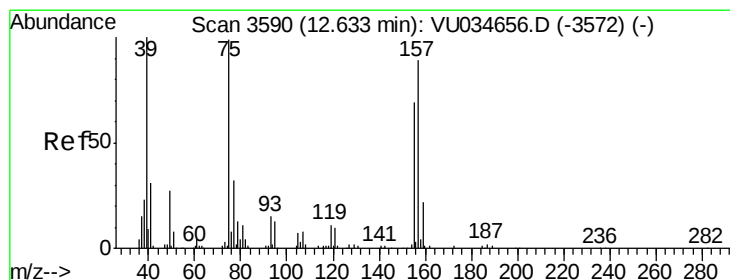
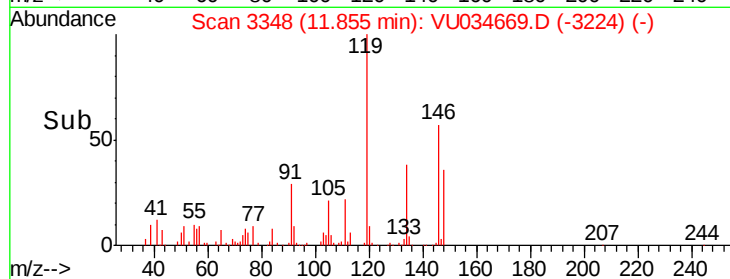
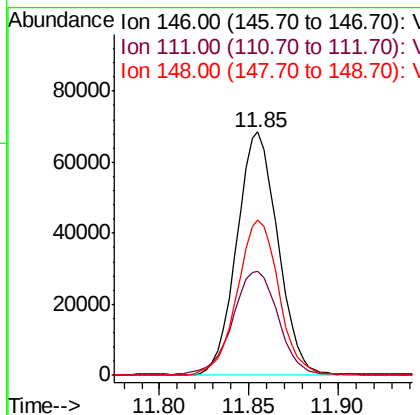
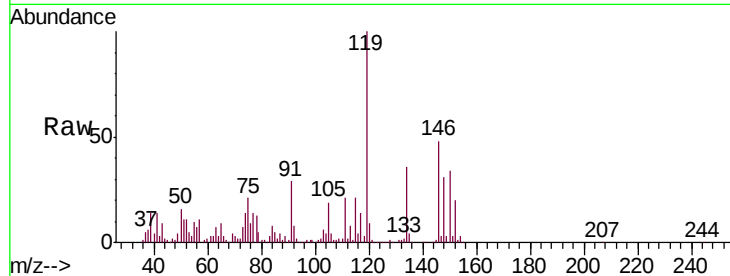




#65
 1,2-Dichlorobenzene
 Concen: 14.076 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. 0.00 min
 Lab File: VU034669.D
 Acq: 20 Sep 2019 00:10

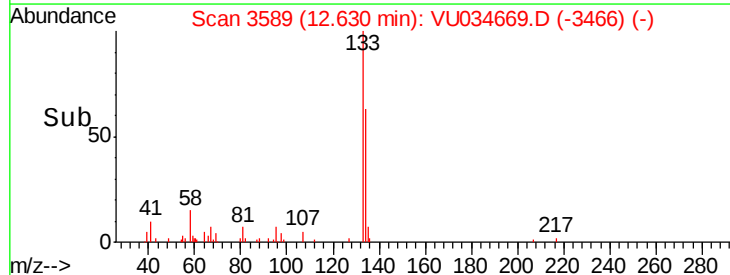
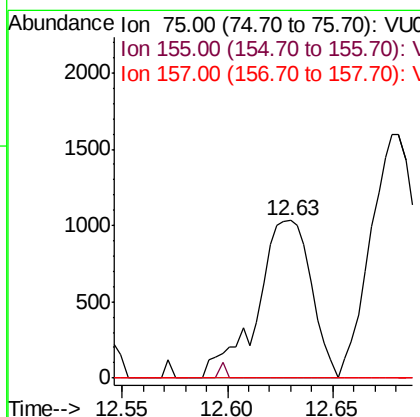
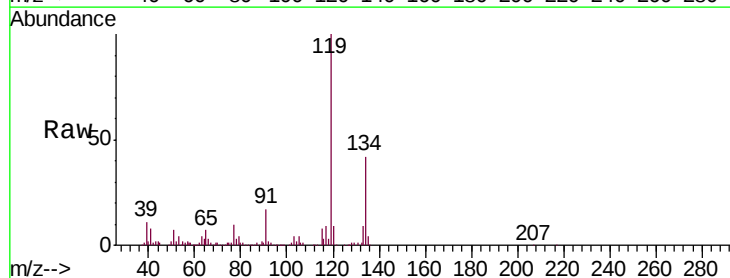
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH3

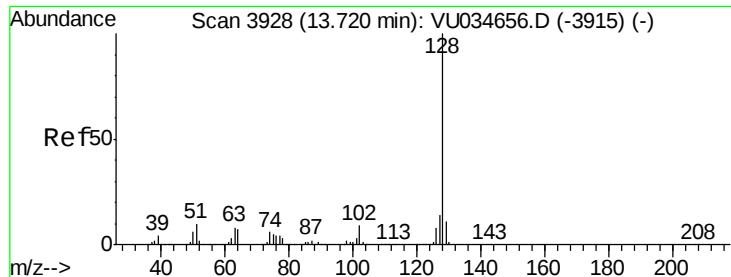
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	35.2	52.8
148	63.8	53.0	79.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.105 ug/L
 RT: 12.63 min Scan# 3589
 Delta R.T. -0.00 min
 Lab File: VU034669.D
 Acq: 20 Sep 2019 00:10

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





#69

Naphthalene

Concen: 133.035 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034669.D

Acq: 20 Sep 2019 00:10

Instrument :

MSVOA_U

ClientSampleId :

BFDH3

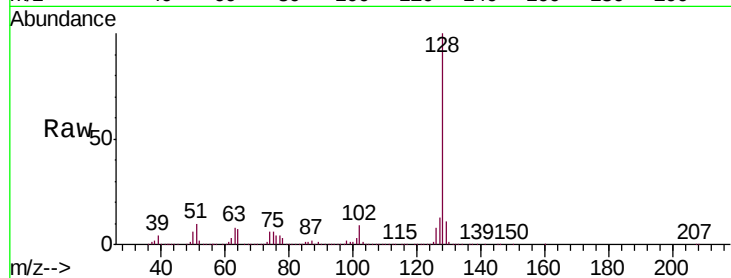
Tgt Ion:128 Resp: 1879053

Ion Ratio Lower Upper

128 100

127 13.7 10.8 16.2

129 10.7 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

