

Data File : VU034664.D
Acq On : 19 Sep 2019 22:13
Operator : JC/SP
Sample : K4895-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDH1

Quant Time: Sep 20 04:07:52 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	470212	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	459029	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	218790	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	216951	45.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.14%
7) Chloroethane-d5	1.67	69	179611	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.56%
11) 1,1-Dichloroethene-d2	2.26	63	297823	36.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.06%
21) 2-Butanone-d5	4.15	46	417404	113.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.14%
24) Chloroform-d	4.62	84	344996	49.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.29	65	255800	49.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.44%
32) Benzene-d6	5.32	84	697222	49.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.31	67	245513	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.74%
41) Toluene-d8	7.54	98	670323	49.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.04%
43) trans-1,3-Dichloropropene-	7.83	79	116851	49.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.12%
47) 2-Hexanone-d5	8.29	63	266244	106.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.60%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	333011	48.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.52%
64) 1,2-Dichlorobenzene-d4	11.84	152	231073	50.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.74%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2663	0.831	ug/L #	24
12) 1,1-Dichloroethene	2.26	96	2508	0.815	ug/L #	1
13) Acetone	2.31	43	189675	44.197	ug/L	97
15) Methyl Acetate	2.61	43	6015	1.049	ug/L #	86
16) Methylene chloride	2.68	84	4510	1.157	ug/L	82
20) cis-1,2-Dichloroethene	4.20	96	95228	24.214	ug/L	94
22) 2-Butanone	4.25	43	48578	9.515	ug/L	80
29) Cyclohexane	4.97	56	35566	4.694	ug/L	98
33) Benzene	5.37	78	458488	28.799	ug/L	100
34) Trichloroethene	6.17	95	45827	11.656	ug/L	98
35) Methylcyclohexane	6.40	83	30297	4.541	ug/L	92
37) 1,2-Dichloropropane	6.41	63	6098	1.286	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	98334	10.865	ug/L	92
42) Toluene	7.61	91	4020726	233.689	ug/L	99
46) Tetrachloroethene	8.21	164	5596	2.023	ug/L	90
51) Chlorobenzene	9.10	112	14511	1.387	ug/L	94
52) Ethylbenzene	9.23	91	1163406	60.048	ug/L	100

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Quant Title : VOC Analysis
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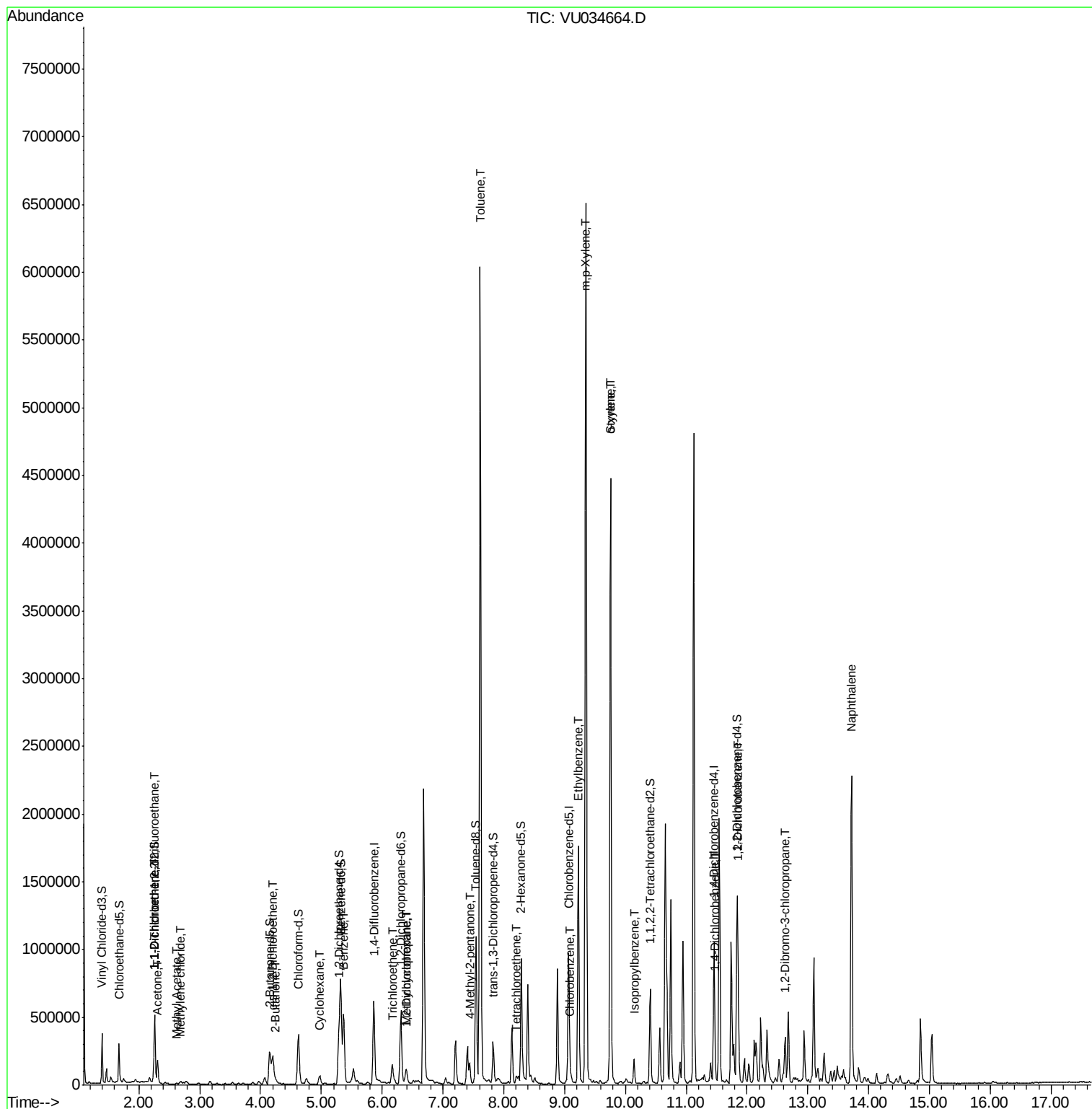
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.35	106	1626644	237.036	ug/L	97
54) o-xylene	9.76	106	1050566	154.779	ug/L	96
55) Styrene	9.76	104	61436	5.347	ug/L #	1
56) Isopropylbenzene	10.14	105	110872	6.058	ug/L	98
63) 1,4-Dichlorobenzene	11.48	146	8453	1.095	ug/L	95
65) 1,2-Dichlorobenzene	11.85	146	95020	12.412	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.63	75	2113	1.299	ug/L #	10
69) Naphthalene	13.72	128	1639049	118.597	ug/L	100

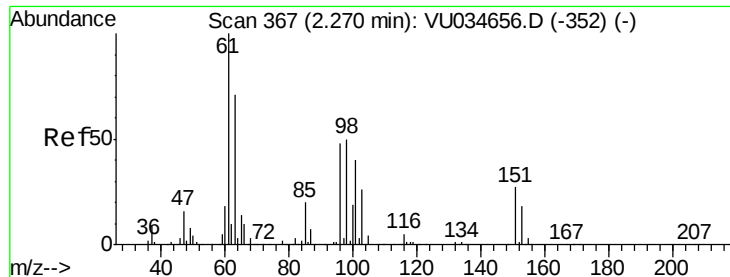
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.831 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampled :

BFDH1

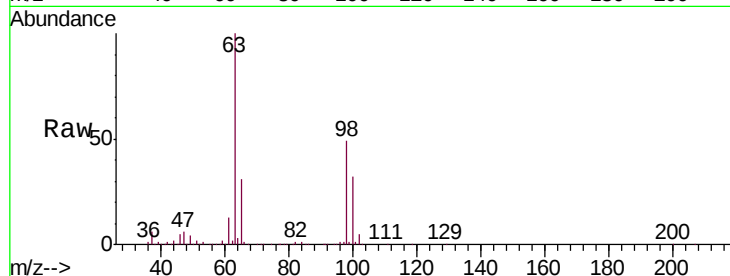
Tgt Ion:101 Resp: 2663

Ion Ratio Lower Upper

101 100

85 3.4 39.0 58.4#

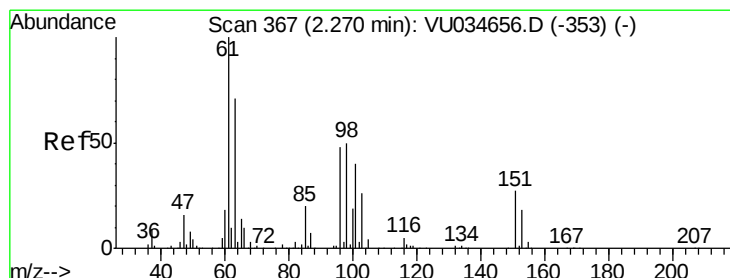
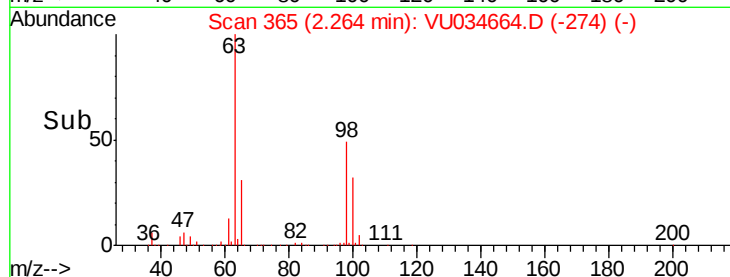
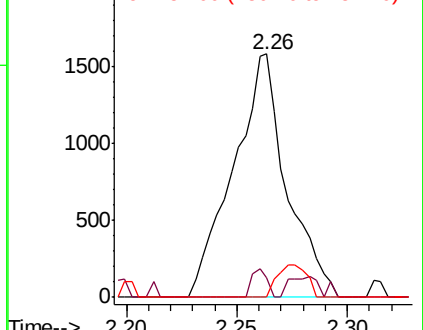
151 0.0 52.8 79.2#



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



#12

1,1-Dichloroethene

Concen: 0.815 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

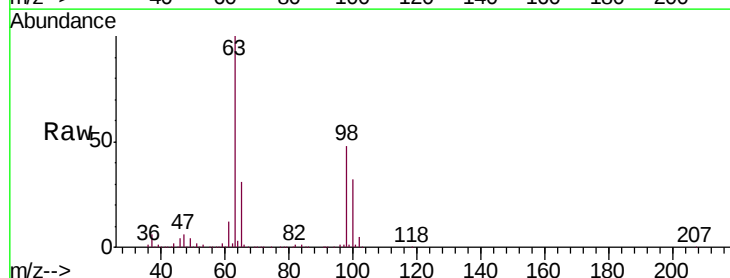
Tgt Ion: 96 Resp: 2508

Ion Ratio Lower Upper

96 100

61 1625.9 153.2 284.4#

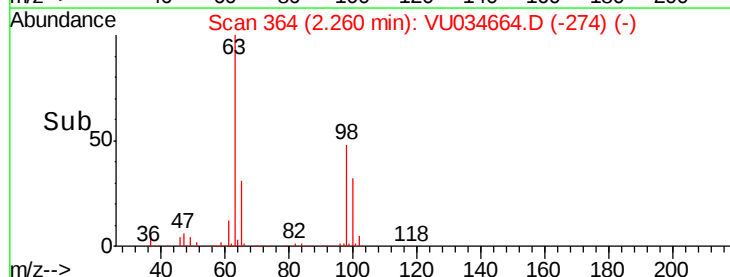
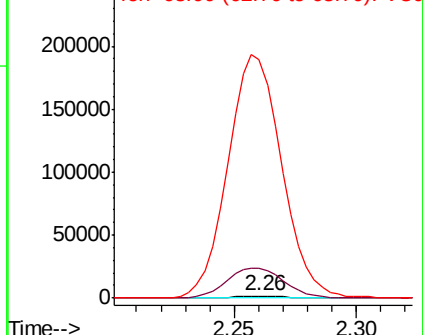
63 13068.9 113.8 211.3#

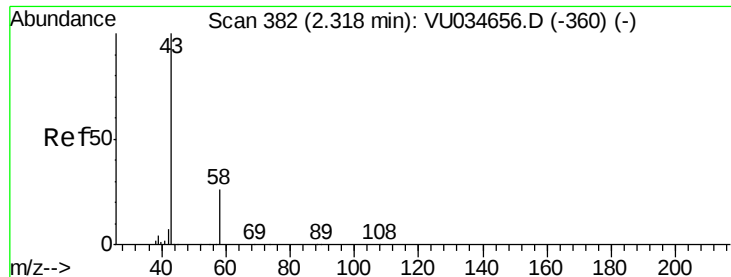


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.197 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

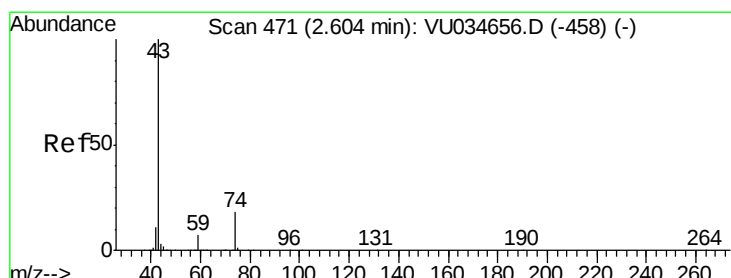
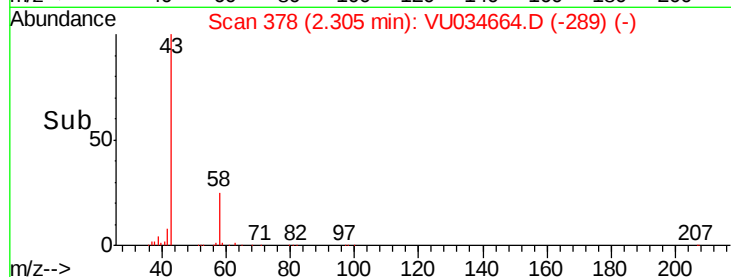
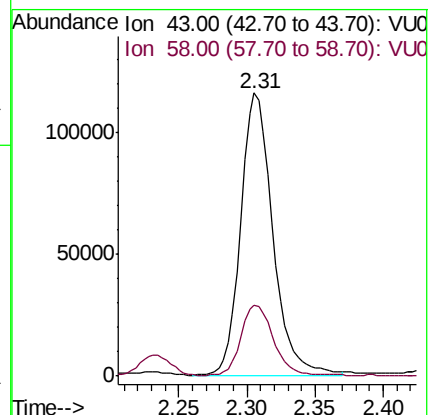
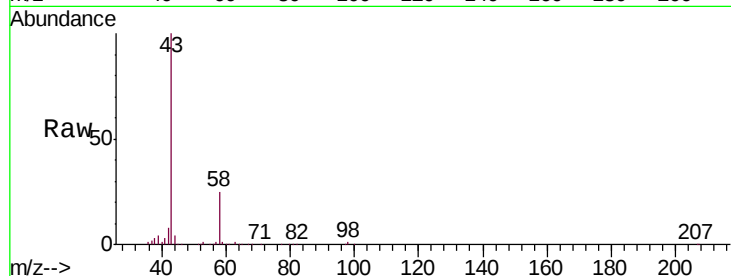
BFDH1

Tgt Ion: 43 Resp: 189675

Ion Ratio Lower Upper

43 100

58 25.0 0.0 53.4



#15

Methyl Acetate

Concen: 1.049 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU034664.D

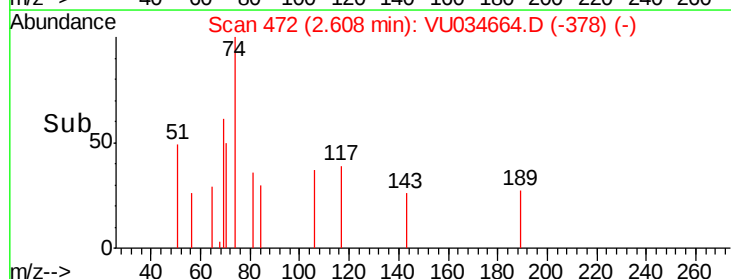
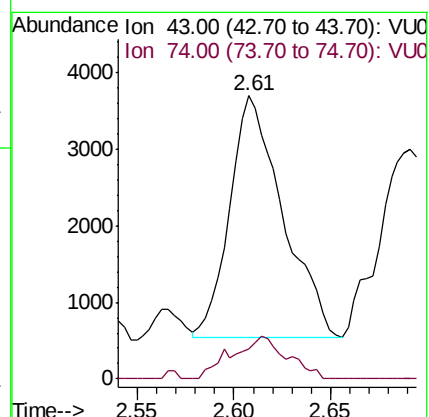
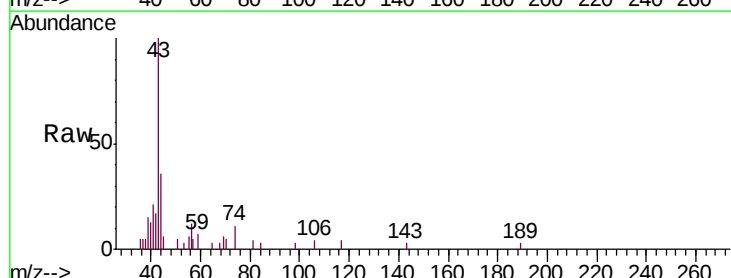
Acq: 19 Sep 2019 22:13

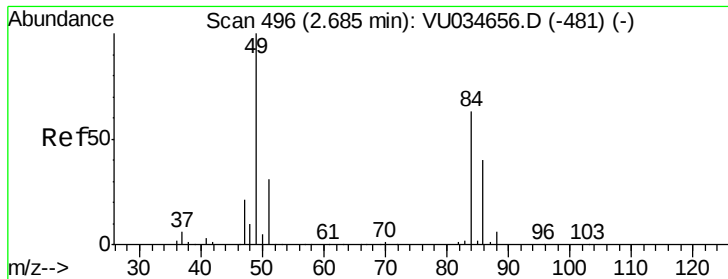
Tgt Ion: 43 Resp: 6015

Ion Ratio Lower Upper

43 100

74 11.7 14.4 21.6#

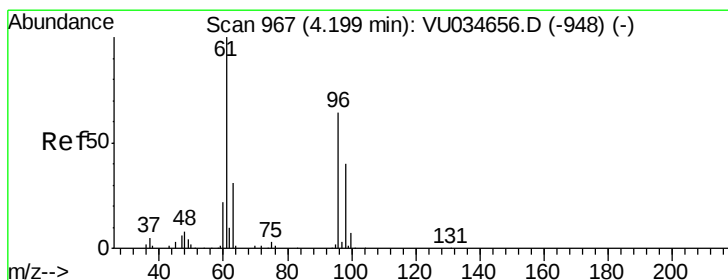
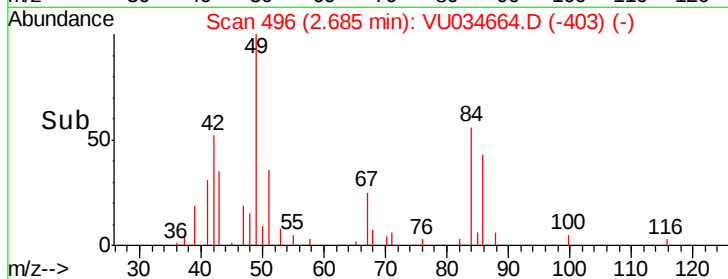
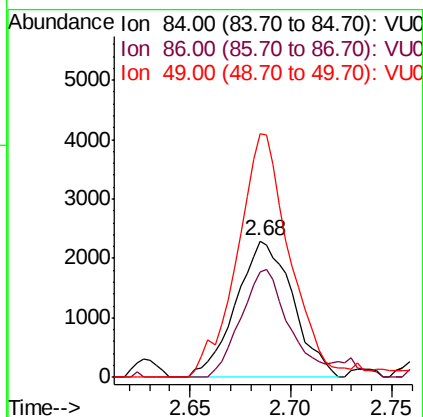
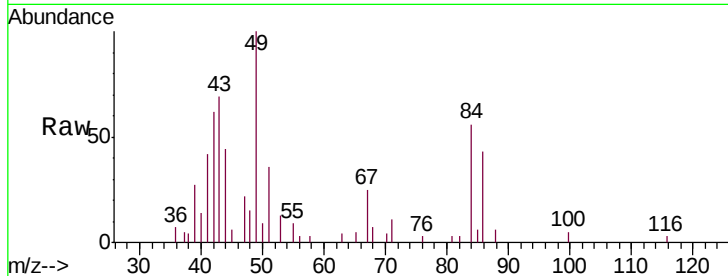




#16
Methylene chloride
Concen: 1.157 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

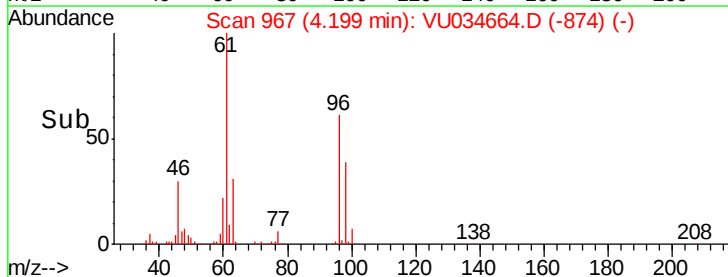
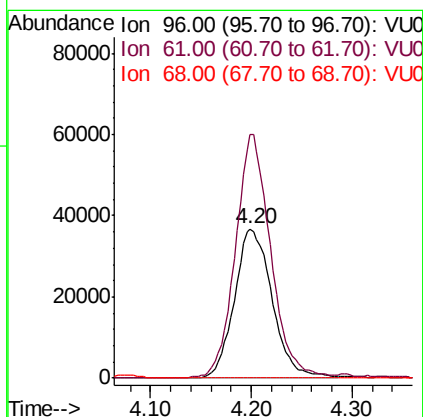
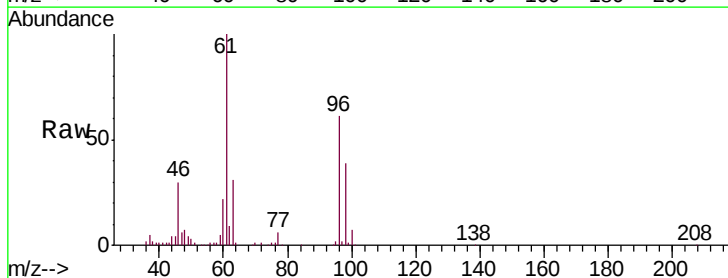
Instrument :
MSVOA_U
ClientSampled :
BFDH1

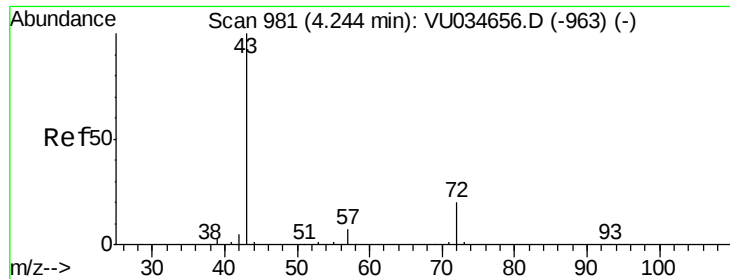
Tgt Ion: 84 Resp: 4510
Ion Ratio Lower Upper
84 100
86 77.5 43.0 80.0
49 178.9 109.7 203.7



#20
cis-1,2-Dichloroethene
Concen: 24.214 ug/L
RT: 4.20 min Scan# 967
Delta R.T. -0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

Tgt Ion: 96 Resp: 95228
Ion Ratio Lower Upper
96 100
61 163.1 108.8 202.2
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 9.515 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

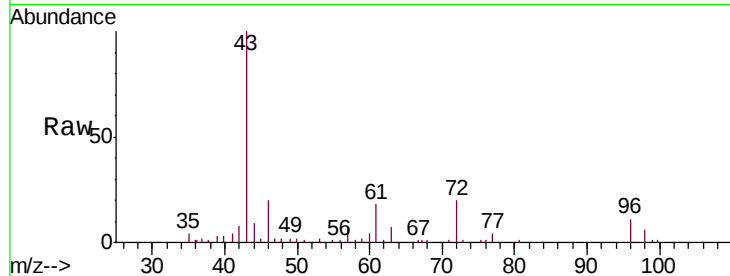
BFDH1

Tgt Ion: 43 Resp: 48578

Ion Ratio Lower Upper

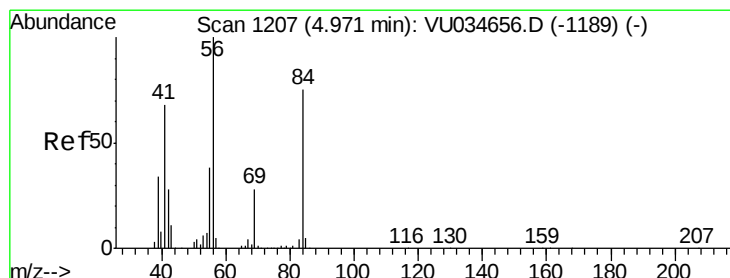
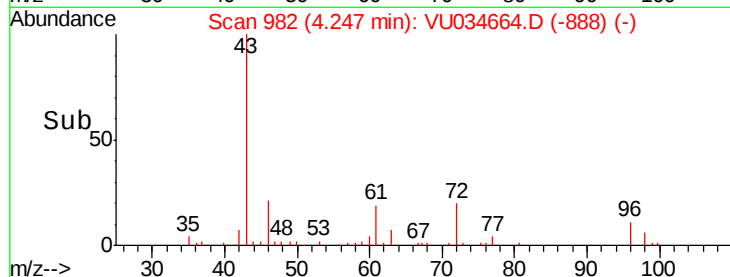
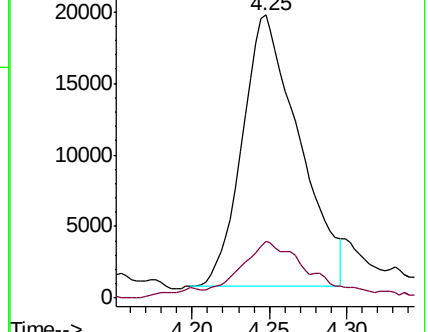
43 100

72 10.9 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) (-)



#29

Cyclohexane

Concen: 4.694 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

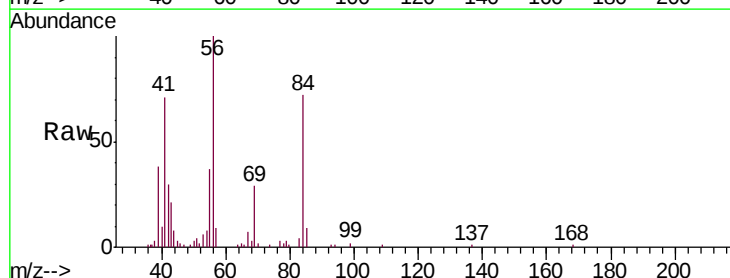
Tgt Ion: 56 Resp: 35566

Ion Ratio Lower Upper

56 100

69 24.3 21.7 32.5

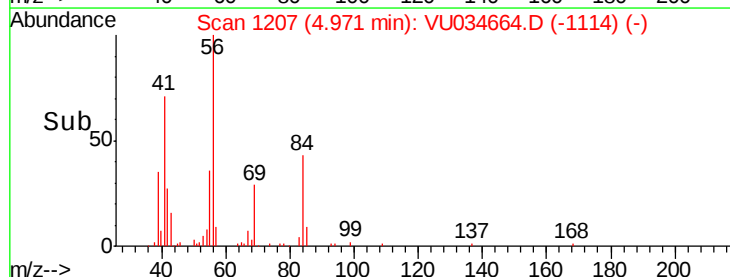
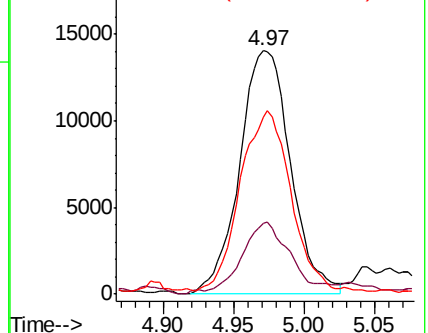
84 72.6 58.8 88.2

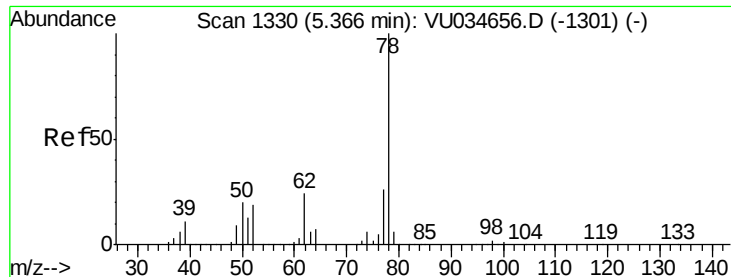


Abundance Ion 56.00 (55.70 to 56.70): VU034656.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU034656.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU034656.D (-1189) (-)





#33

Benzene

Concen: 28.799 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

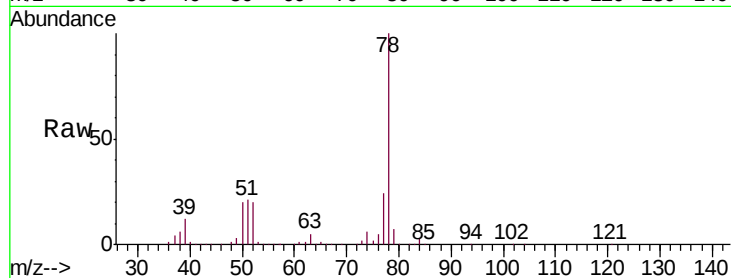
Instrument :

MSVOA_U

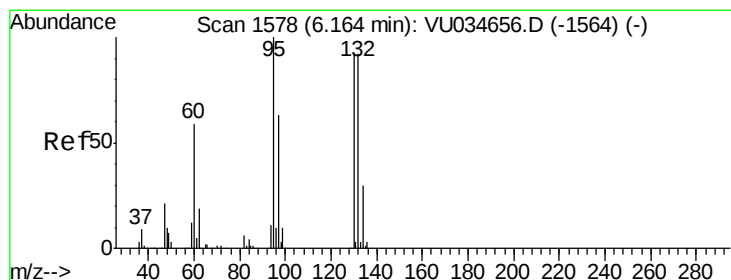
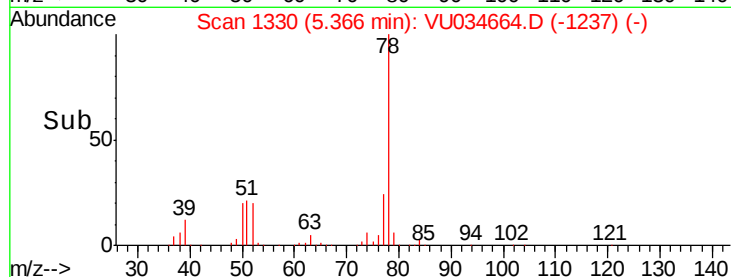
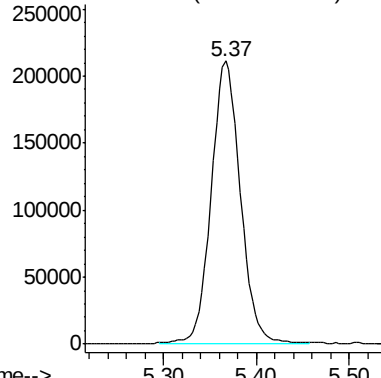
ClientSampleId :

BFDH1

Tgt Ion: 78 Resp: 458488



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 11.656 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Tgt Ion: 95 Resp: 45827

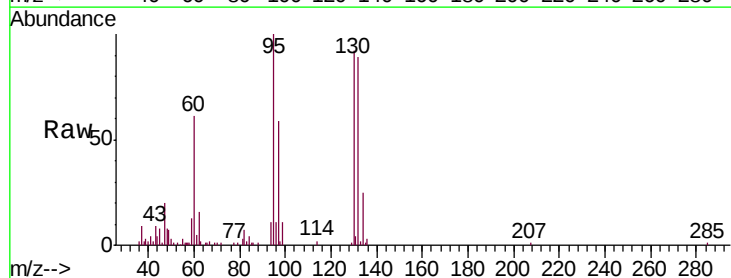
Ion	Ratio	Lower	Upper
95	100		
97	59.0	43.7	81.1
132	88.9	61.0	113.2
130	92.3	65.7	121.9

95 100

97 59.0 43.7 81.1

132 88.9 61.0 113.2

130 92.3 65.7 121.9

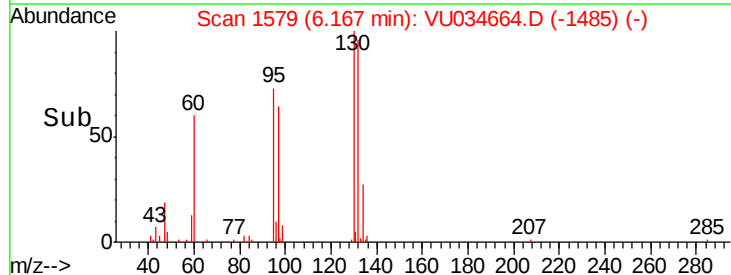
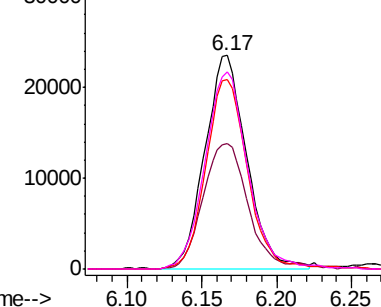


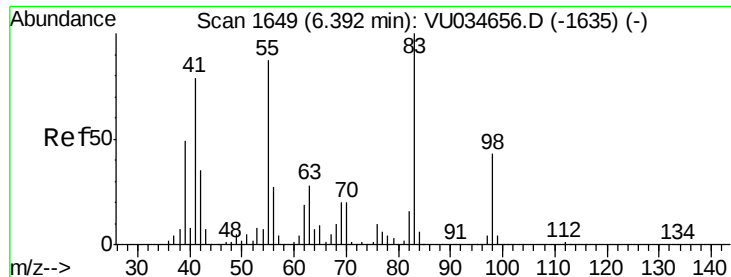
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

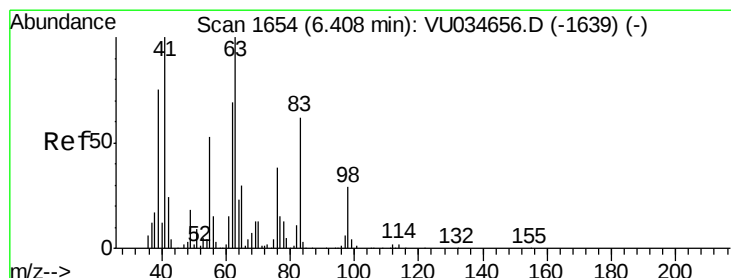
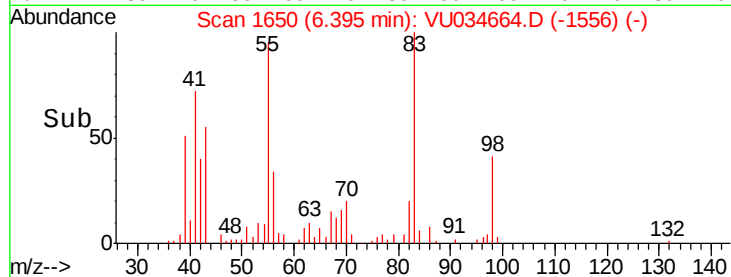
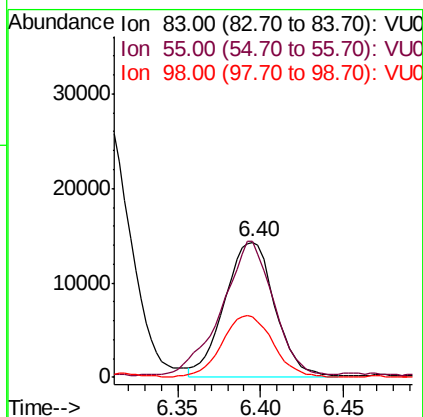
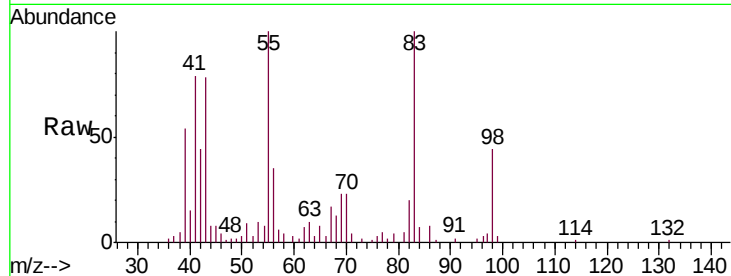




#35
Methylcyclohexane
Concen: 4.541 ug/L
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

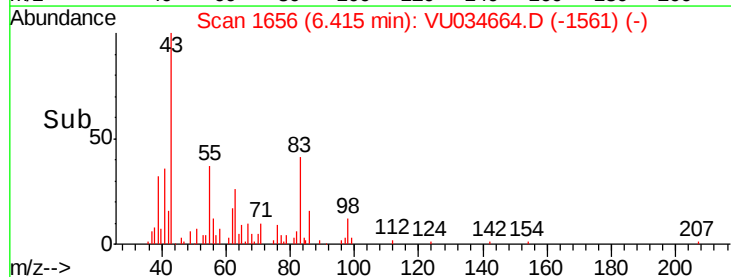
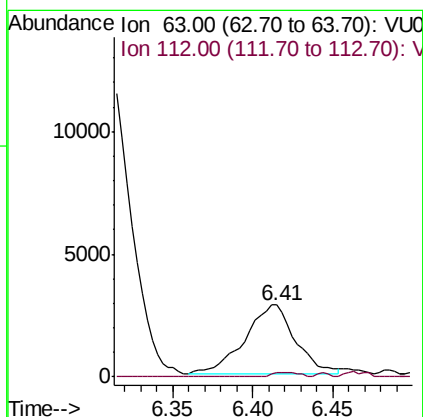
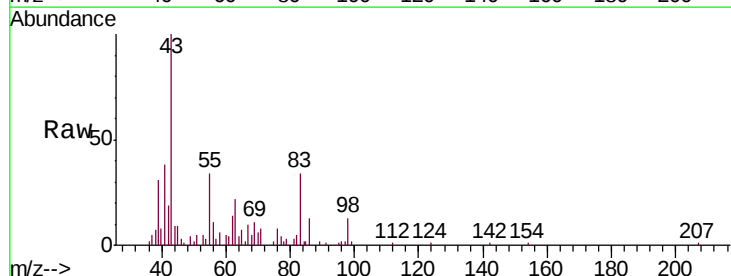
Instrument :
MSVOA_U
ClientSampleId :
BFDH1

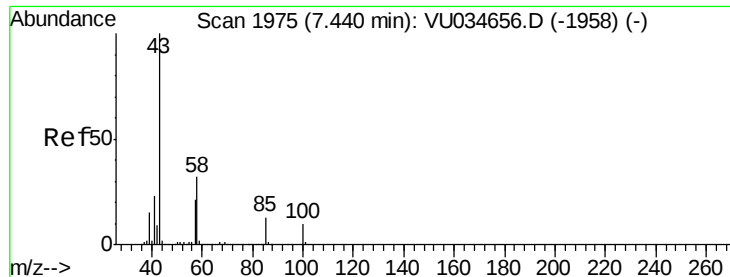
Tgt Ion: 83 Resp: 30297
Ion Ratio Lower Upper
83 100
55 100.0 71.6 107.4
98 46.3 35.7 53.5



#37
1,2-Dichloropropane
Concen: 1.286 ug/L
RT: 6.41 min Scan# 1656
Delta R.T. 0.01 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

Tgt Ion: 63 Resp: 6098
Ion Ratio Lower Upper
63 100
112 3.5 2.4 3.6

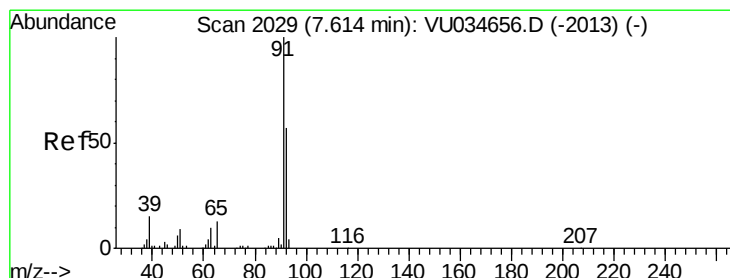
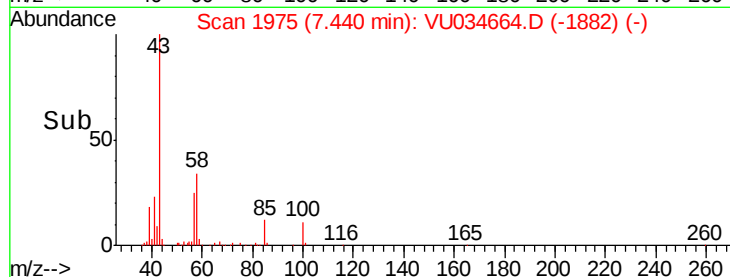
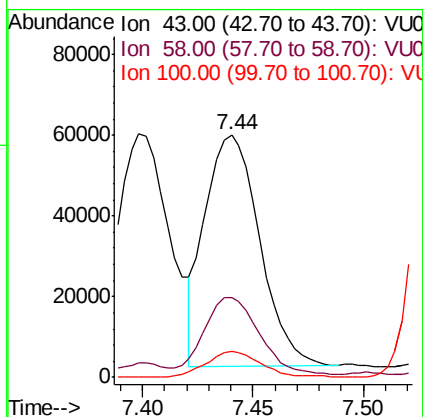
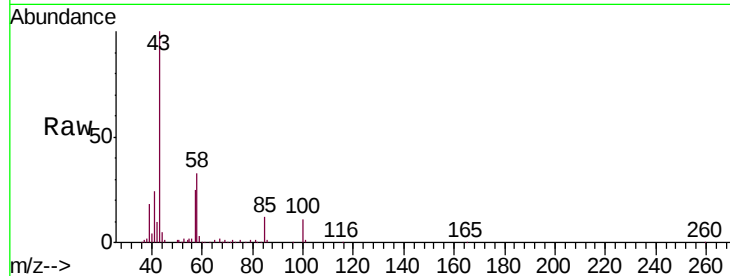




#40
 4-Methyl-2-pentanone
 Concen: 10.865 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU034664.D
 Acq: 19 Sep 2019 22:13

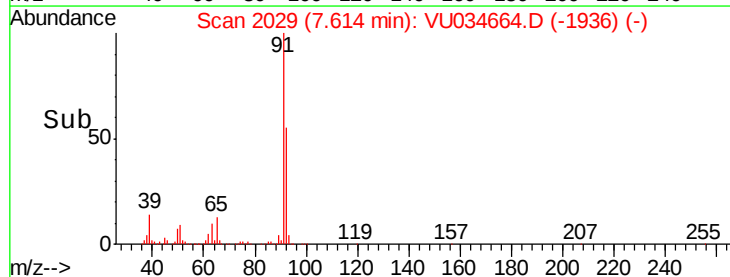
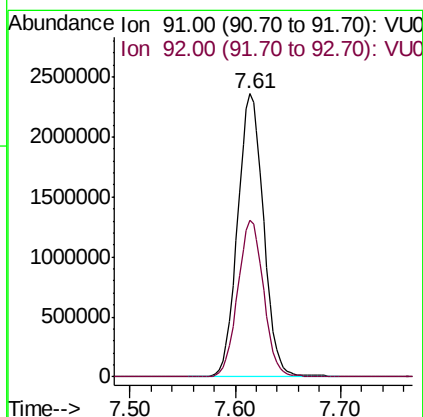
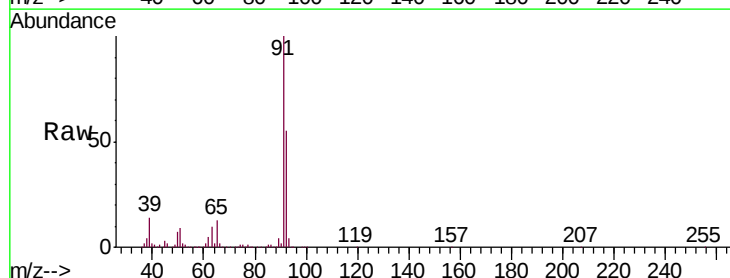
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH1

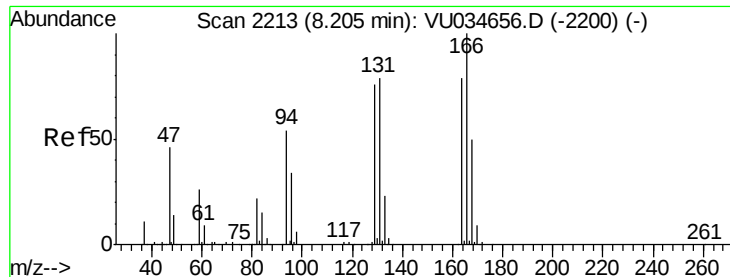
Tgt Ion: 43 Resp: 98334
 Ion Ratio Lower Upper
 43 100
 58 36.4 25.2 37.8
 100 11.1 7.7 11.5



#42
 Toluene
 Concen: 233.689 ug/L
 RT: 7.61 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: VU034664.D
 Acq: 19 Sep 2019 22:13

Tgt Ion: 91 Resp: 4020726
 Ion Ratio Lower Upper
 91 100
 92 55.3 38.2 71.0

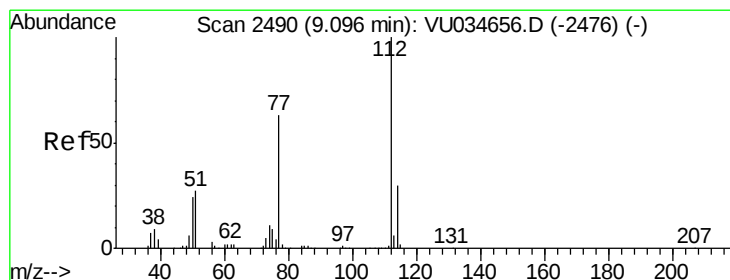
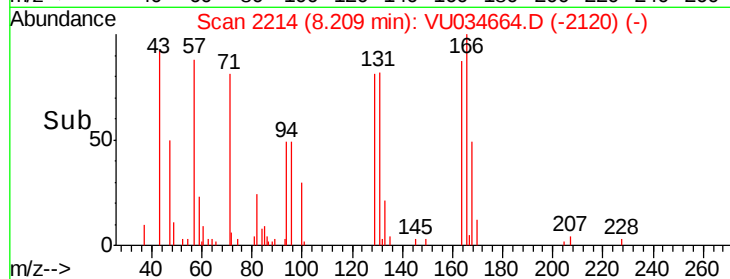
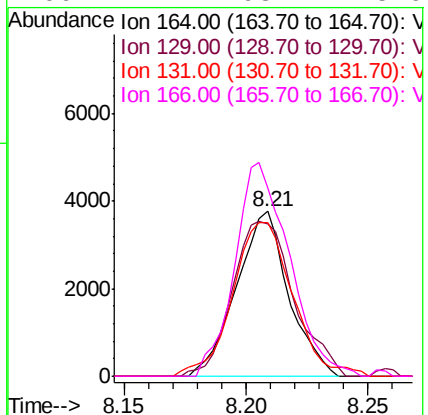
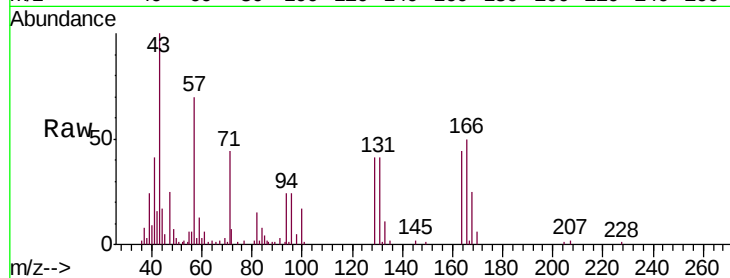




#46
Tetrachloroethene
Concen: 2.023 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

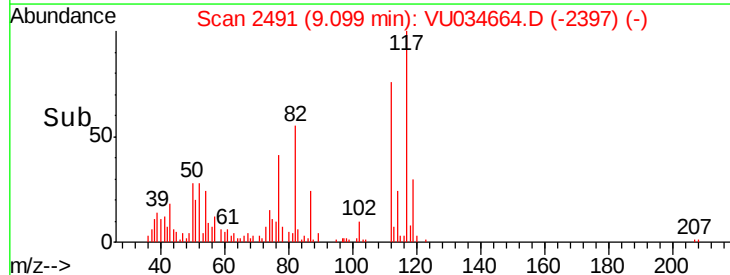
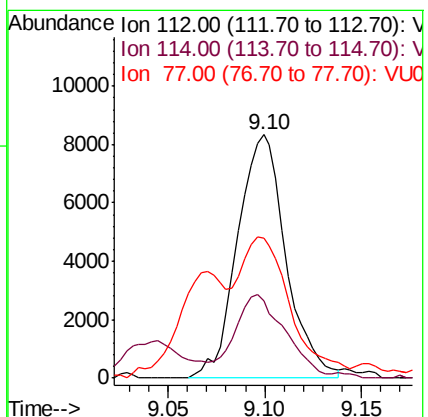
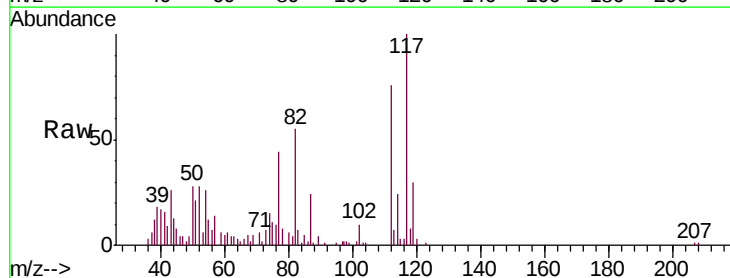
Instrument :
MSVOA_U
ClientSampleId :
BFDH1

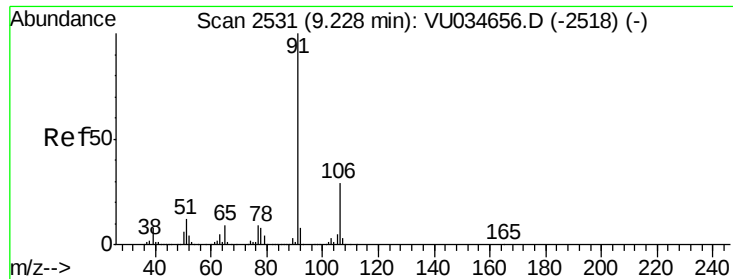
Tgt Ion:164 Resp: 5596
Ion Ratio Lower Upper
164 100
129 92.8 71.9 133.5
131 93.4 66.3 123.1
166 114.4 93.4 173.6



#51
Chlorobenzene
Concen: 1.387 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034664.D
Acq: 19 Sep 2019 22:13

Tgt Ion:112 Resp: 14511
Ion Ratio Lower Upper
112 100
114 31.5 22.8 42.4
77 57.6 51.5 77.3





#52

Ethylbenzene

Concen: 60.048 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

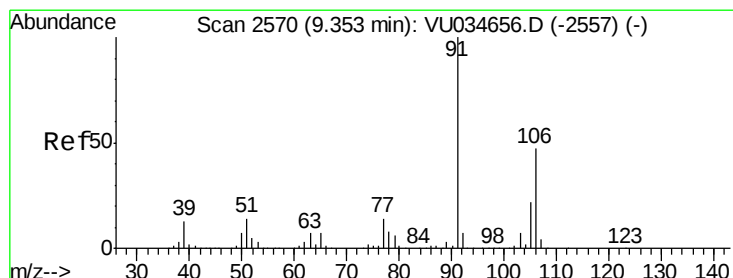
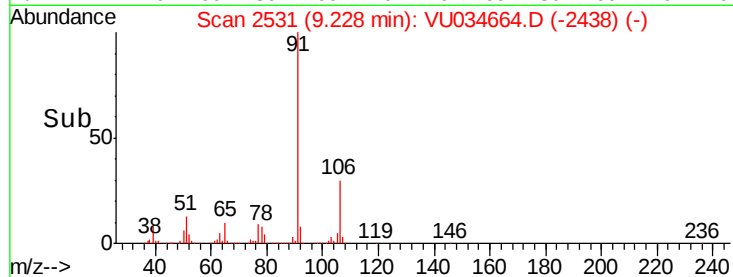
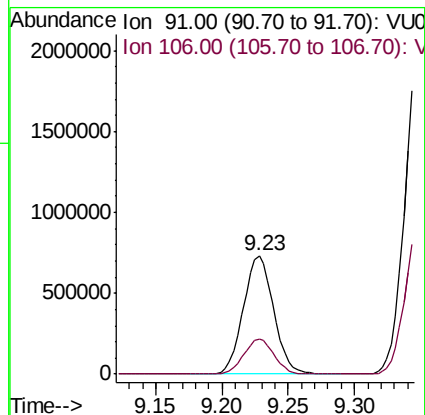
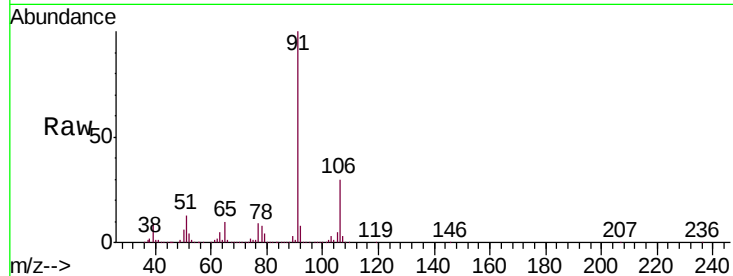
BFDH1

Tgt Ion: 91 Resp: 1163406

Ion Ratio Lower Upper

91 100

106 29.5 20.6 38.4



#53

m,p-Xylene

Concen: 237.036 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034664.D

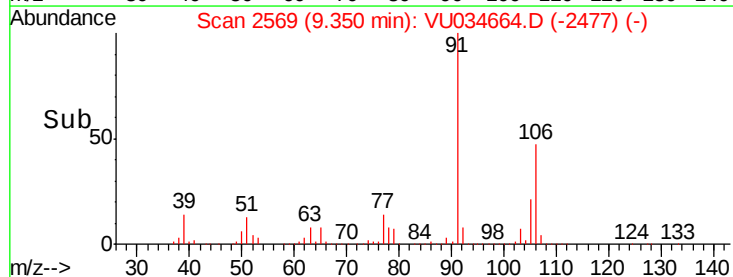
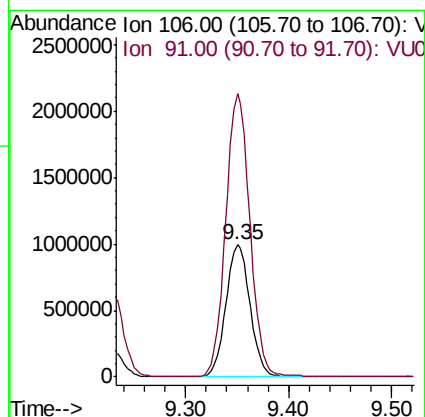
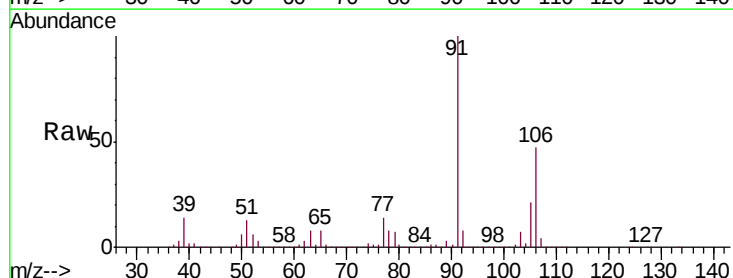
Acq: 19 Sep 2019 22:13

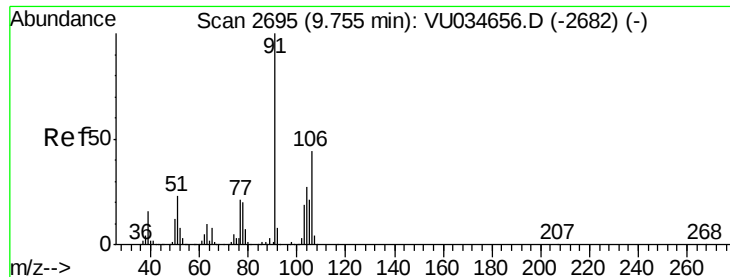
Tgt Ion: 106 Resp: 1626644

Ion Ratio Lower Upper

106 100

91 214.2 146.9 272.7





#54

o-xylene

Concen: 154.779 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

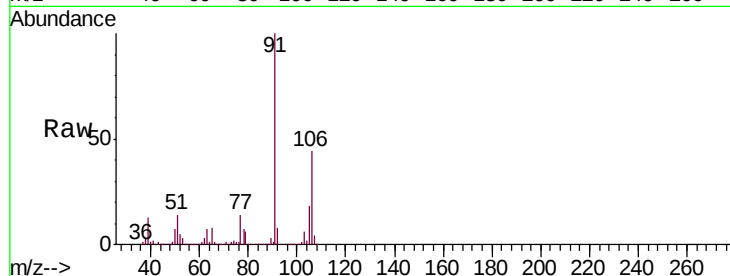
BFDH1

Tgt Ion:106 Resp: 1050566

Ion Ratio Lower Upper

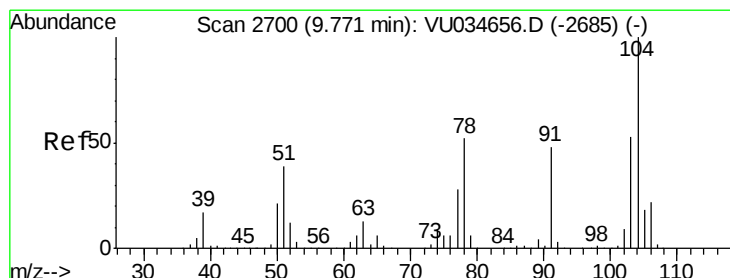
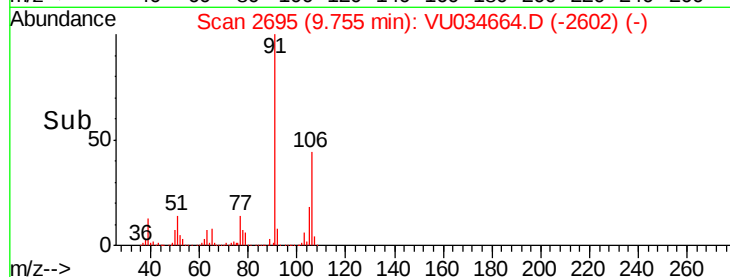
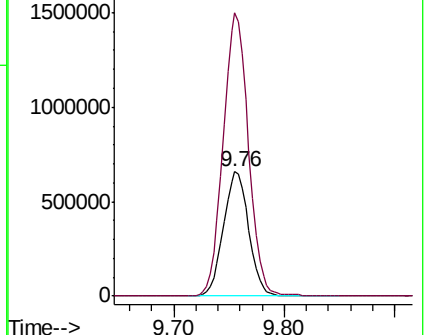
106 100

91 228.0 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 5.347 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.02 min

Lab File: VU034664.D

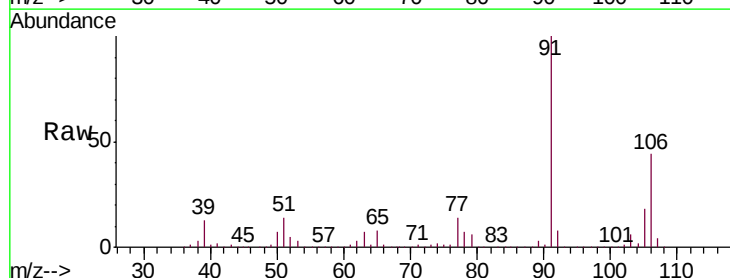
Acq: 19 Sep 2019 22:13

Tgt Ion:104 Resp: 61436

Ion Ratio Lower Upper

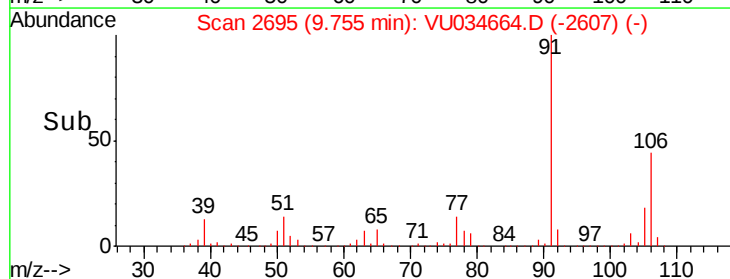
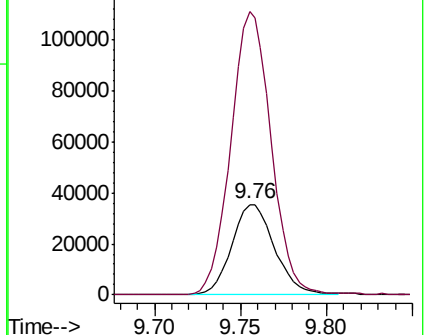
104 100

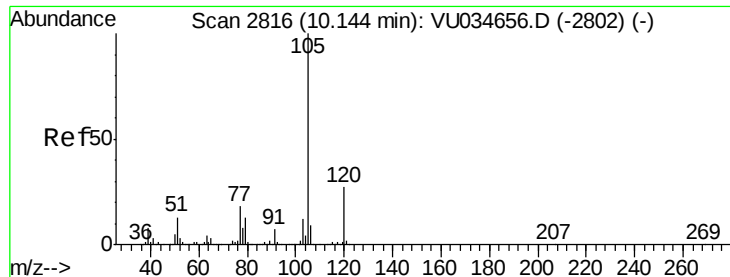
78 312.2 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 6.058 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

BFDH1

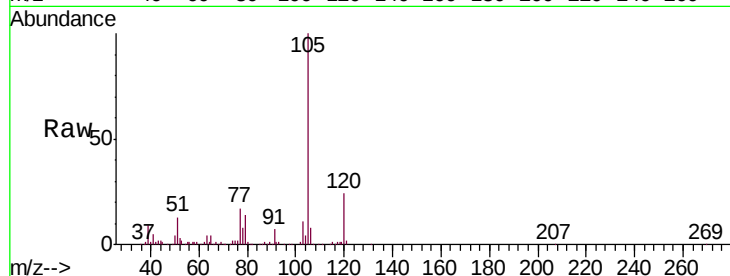
Tgt Ion:105 Resp: 110872

Ion Ratio Lower Upper

105 100

120 24.5 20.4 30.6

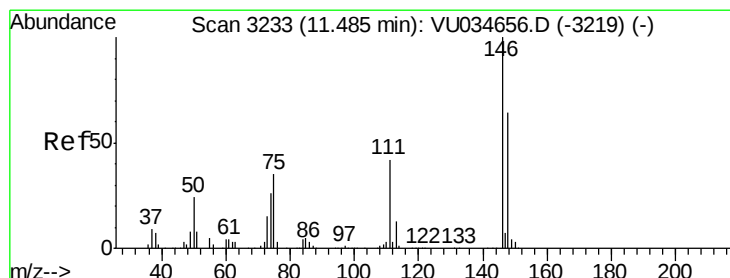
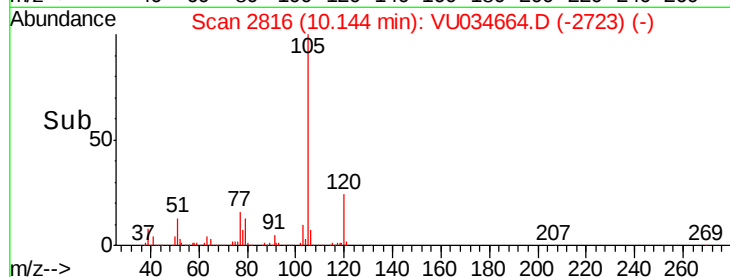
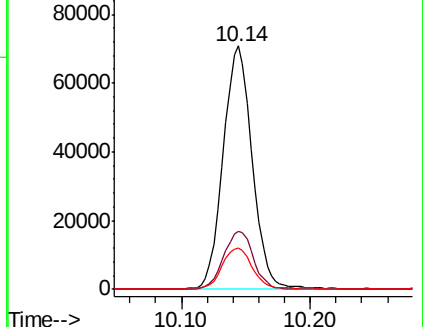
77 16.9 14.2 21.4



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): VU0



#63

1,4-Dichlorobenzene

Concen: 1.095 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

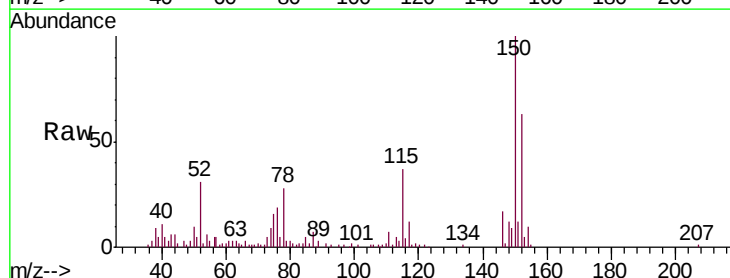
Tgt Ion:146 Resp: 8453

Ion Ratio Lower Upper

146 100

111 41.2 29.5 54.9

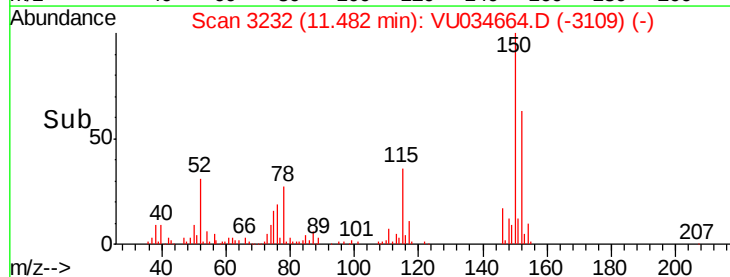
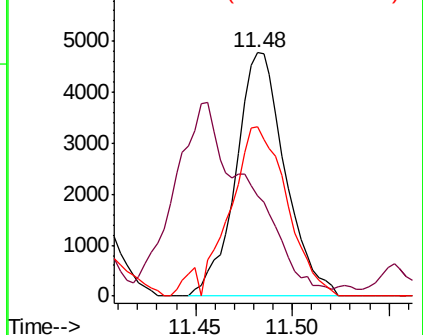
148 69.4 44.4 82.4

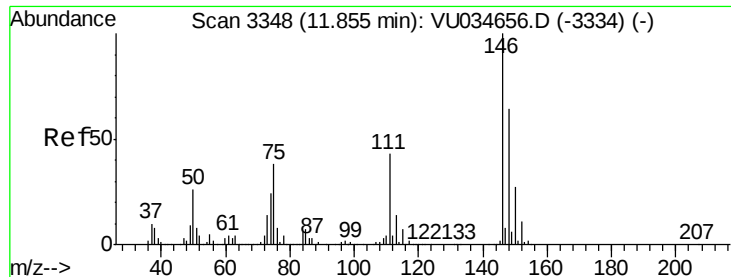


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 12.412 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

BFDH1

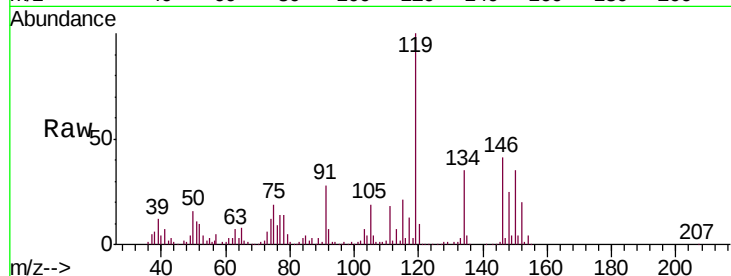
Tgt Ion:146 Resp: 95020

Ion Ratio Lower Upper

146 100

111 44.2 35.2 52.8

148 61.1 53.0 79.6

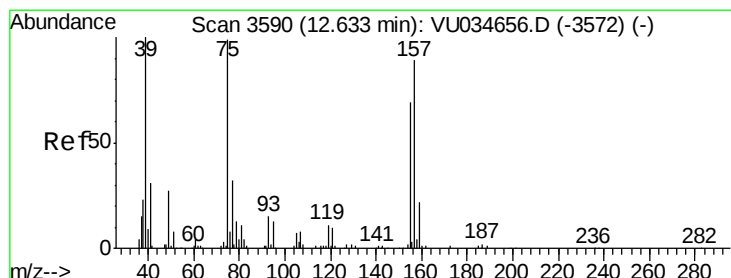
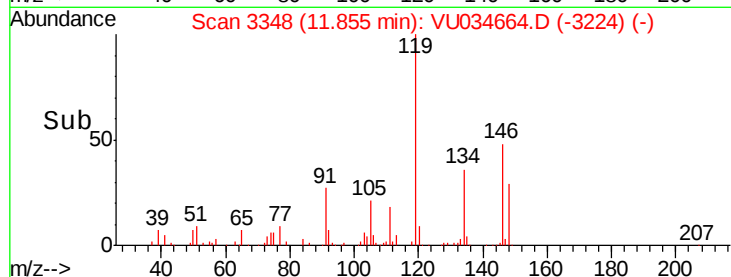
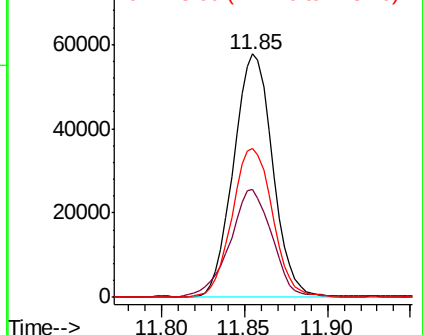


Abundance

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: 1.299 ug/L

RT: 12.63 min Scan# 3588

Delta R.T. -0.01 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

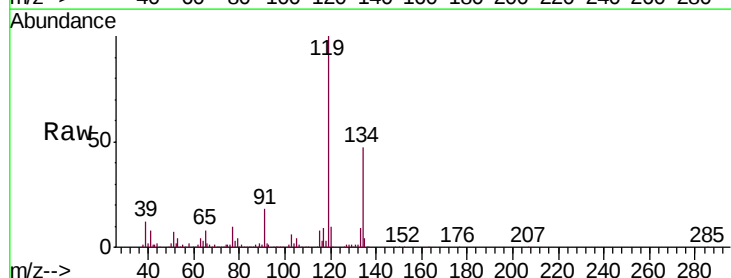
Tgt Ion: 75 Resp: 2113

Ion Ratio Lower Upper

75 100

155 0.0 54.7 82.1#

157 0.0 69.9 104.9#

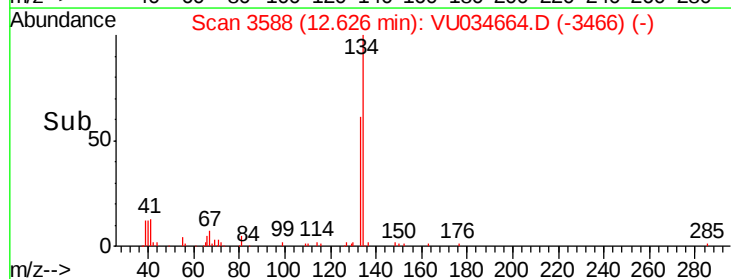
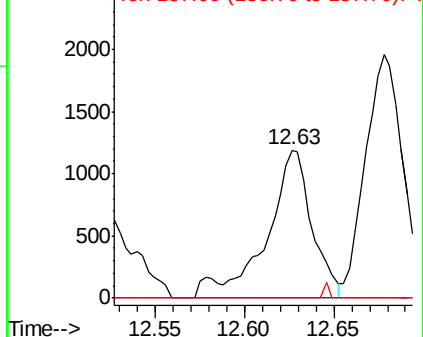


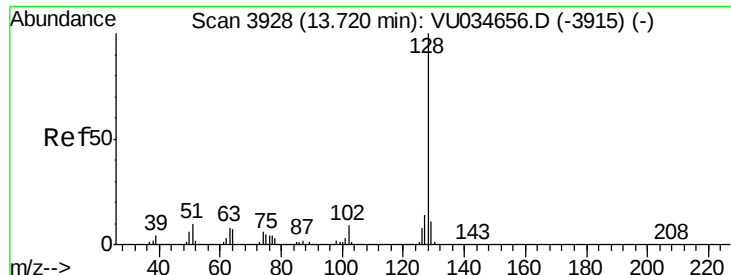
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 118.597 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034664.D

Acq: 19 Sep 2019 22:13

Instrument :

MSVOA_U

ClientSampleId :

BFDH1

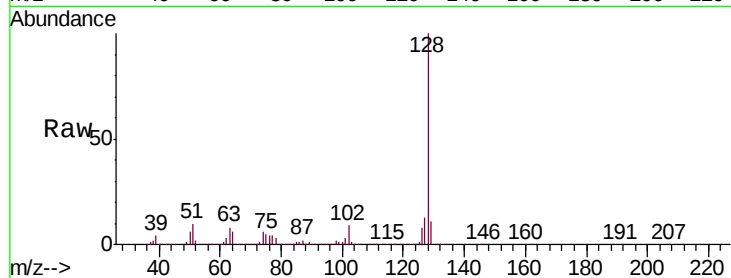
Tgt Ion:128 Resp: 1639049

Ion Ratio Lower Upper

128 100

127 13.5 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

