

Data File : VU034674.D
Acq On : 20 Sep 2019 02:06
Operator : JC/SP
Sample : K4895-17
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDH5

Quant Time: Sep 20 04:10:55 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	546109	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	521772	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	250077	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	222592	39.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.62%
7) Chloroethane-d5	1.67	69	181172	41.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.86%
11) 1,1-Dichloroethene-d2	2.26	63	306818	32.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.82%
21) 2-Butanone-d5	4.15	46	412790	96.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.34%
24) Chloroform-d	4.62	84	213248	26.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	52.48%#
26) 1,2-Dichloroethane-d4	5.29	65	261889	43.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.66%
32) Benzene-d6	5.32	84	709058	43.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.68%
36) 1,2-Dichloropropane-d6	6.31	67	256068	45.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.60%
41) Toluene-d8	7.54	98	677869	44.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.12%
43) trans-1,3-Dichloropropene-	7.83	79	113113	41.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.56%
47) 2-Hexanone-d5	8.29	63	271455	95.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.61%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	117826	15.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	30.04%#
64) 1,2-Dichlorobenzene-d4	11.84	152	238921	45.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.12%

Target Compounds

						Qvalue
13) Acetone	2.31	43	84524	16.958	ug/L	97
16) Methylene chloride	2.69	84	4438	0.981	ug/L	94
17) trans-1,2-Dichloroethene	2.97	96	4013	1.027	ug/L	76
25) Chloroform	4.65	83	143060	16.211	ug/L	94
29) Cyclohexane	4.97	56	38746	4.499	ug/L	96
33) Benzene	5.37	78	453918	25.083	ug/L	100
34) Trichloroethene	6.16	95	75810	16.963	ug/L	97
35) Methylcyclohexane	6.39	83	33867	4.465	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6225	1.155	ug/L #	93
40) 4-Methyl-2-pentanone	7.44	43	617073	59.983	ug/L	97
42) Toluene	7.61	91	3552531	181.648	ug/L	98
46) Tetrachloroethene	8.21	164	15248	4.850	ug/L	93
52) Ethylbenzene	9.23	91	846214	38.424	ug/L	99
53) m,p-Xylene	9.35	106	1229058	157.563	ug/L	96
54) o-xylene	9.76	106	759252	98.409	ug/L	99
55) Styrene	9.76	104	45152	3.457	ug/L #	1
56) Isopropylbenzene	10.14	105	78831	3.789	ug/L	98

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

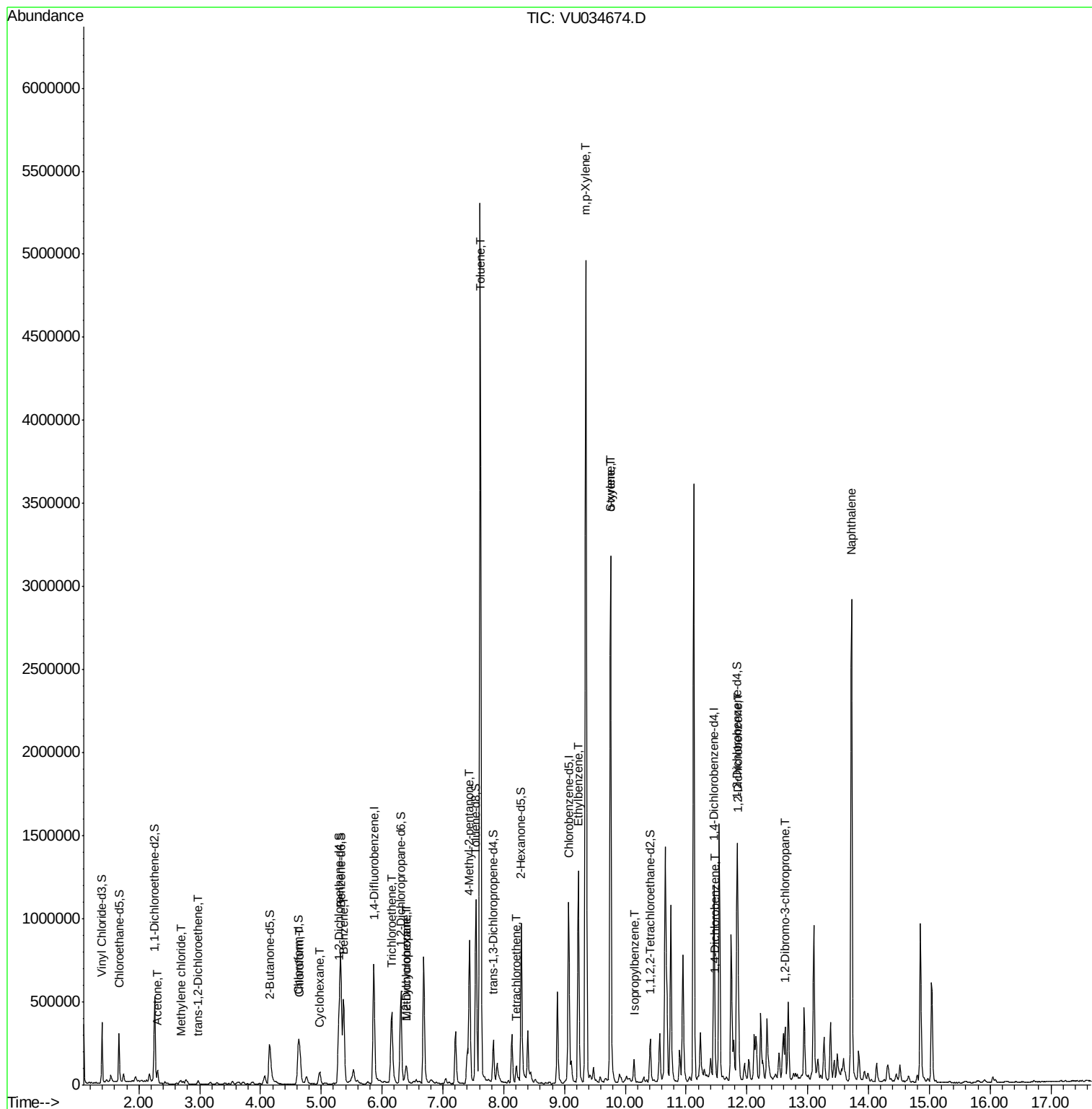
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.49	146	11282	1.279	ug/L	94
65) 1,2-Dichlorobenzene	11.85	146	95154	10.874	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.63	75	1938	1.042	ug/L #	19
69) Naphthalene	13.72	128	2046975	129.583	ug/L	100

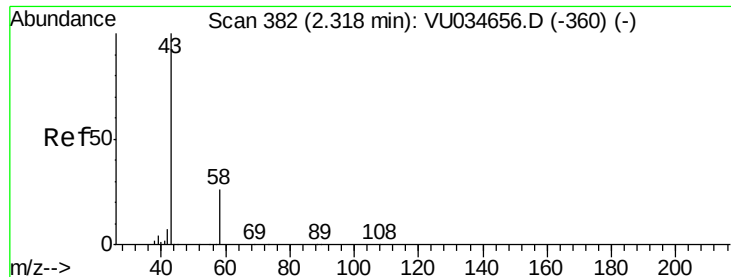
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
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Response via : Initial Calibration





#13

Acetone

Concen: 16.958 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

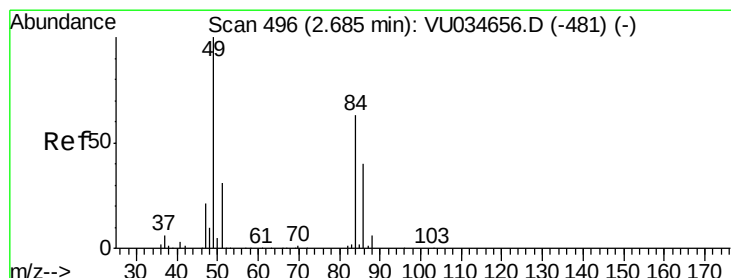
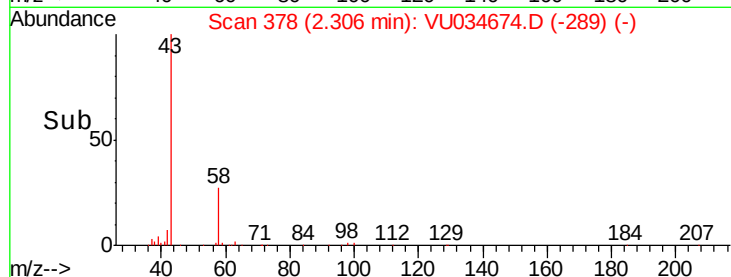
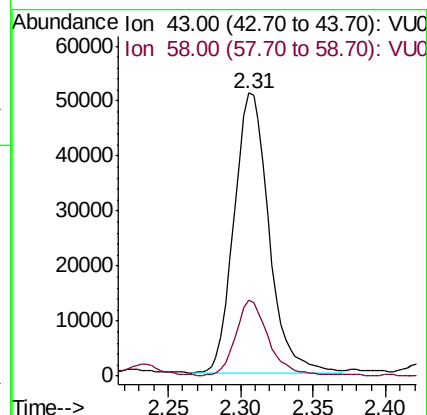
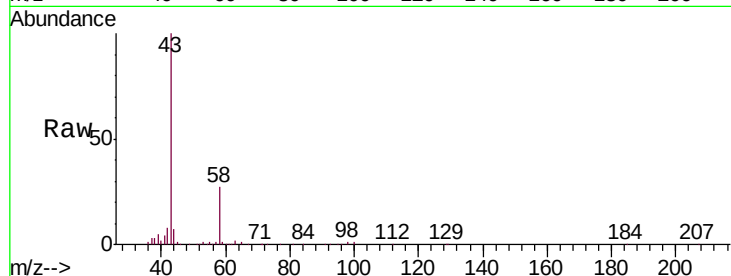
BFDH5

Tgt Ion: 43 Resp: 84524

Ion Ratio Lower Upper

43 100

58 24.9 0.0 53.4



#16

Methylene chloride

Concen: 0.981 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

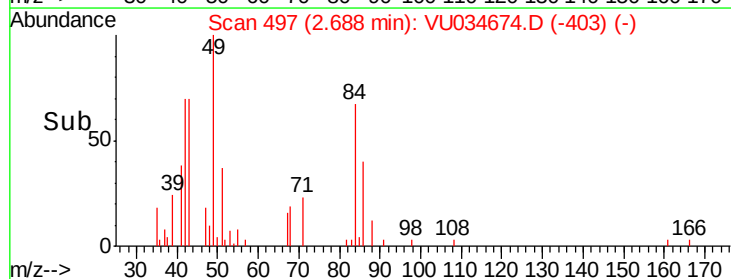
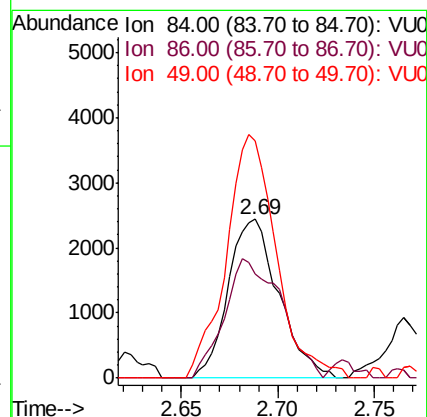
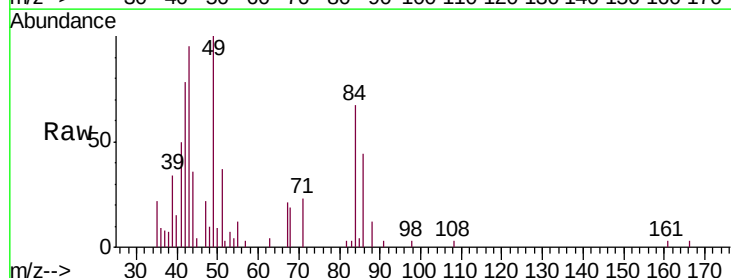
Tgt Ion: 84 Resp: 4438

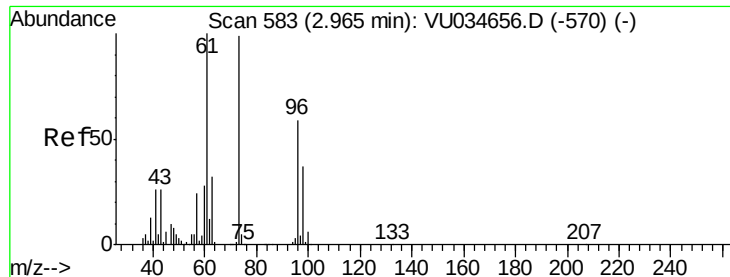
Ion Ratio Lower Upper

84 100

86 65.5 43.0 80.0

49 148.8 109.7 203.7

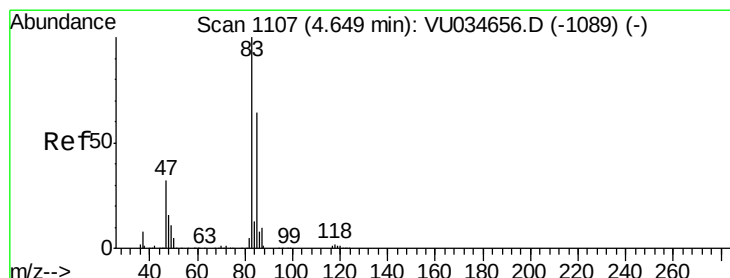
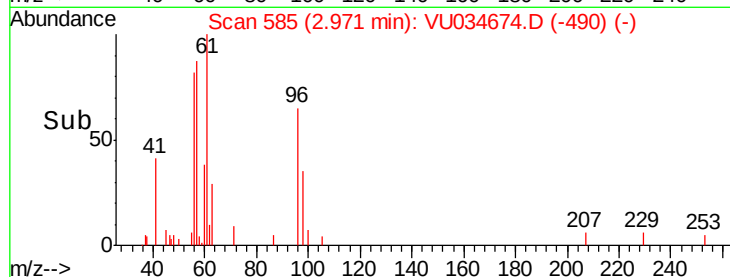
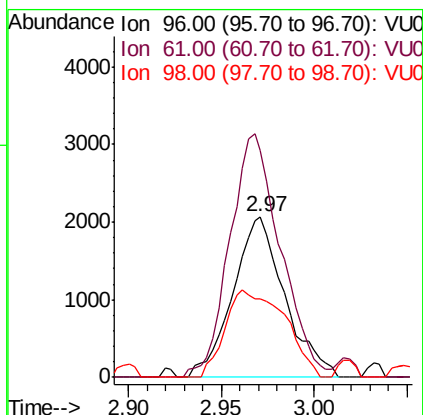
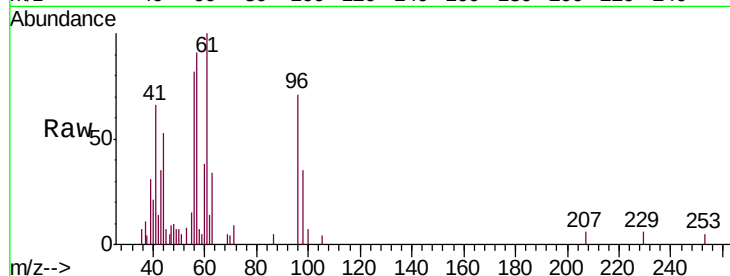




#17
trans-1,2-Dichloroethene
Concen: 1.027 ug/L
RT: 2.97 min Scan# 585
Delta R.T. 0.01 min
Lab File: VU034674.D
Acq: 20 Sep 2019 02:06

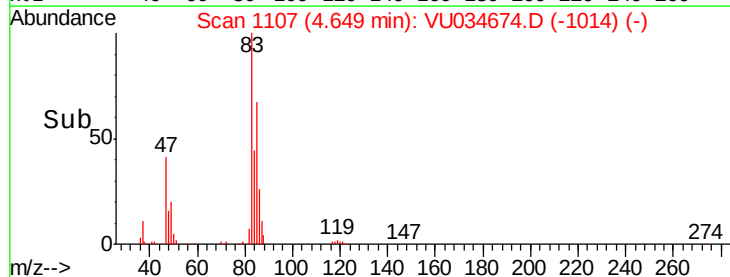
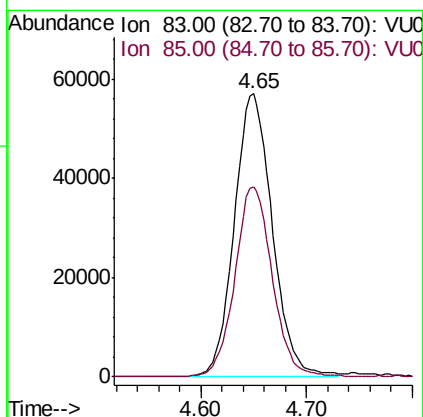
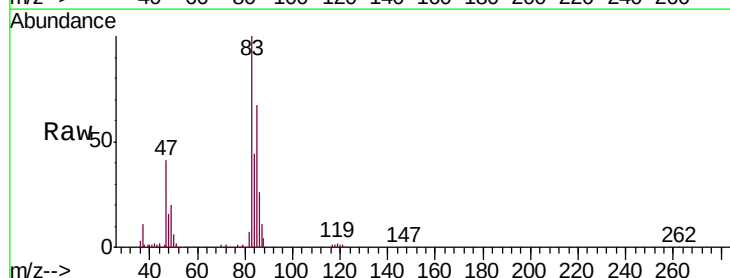
Instrument :
MSVOA_U
ClientSampleId :
BFDH5

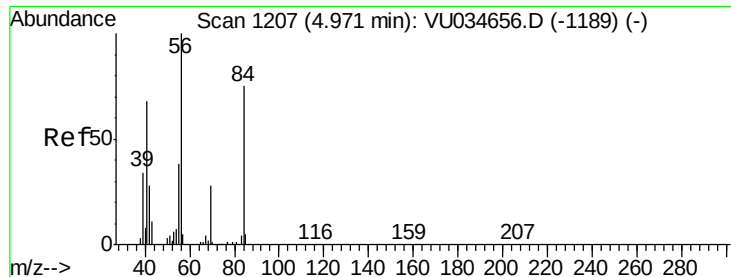
Tgt Ion: 96 Resp: 4013
Ion Ratio Lower Upper
96 100
61 141.7 124.0 230.4
98 48.9 46.1 85.7



#25
Chloroform
Concen: 16.211 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034674.D
Acq: 20 Sep 2019 02:06

Tgt Ion: 83 Resp: 143060
Ion Ratio Lower Upper
83 100
85 67.2 44.0 81.6

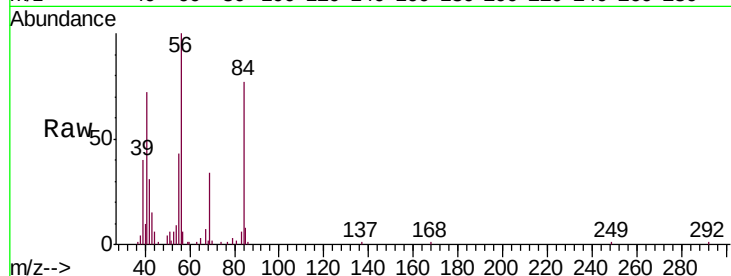




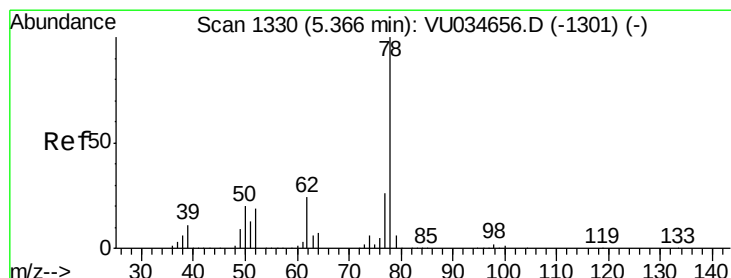
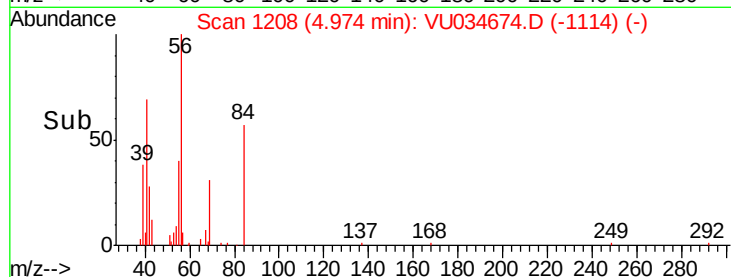
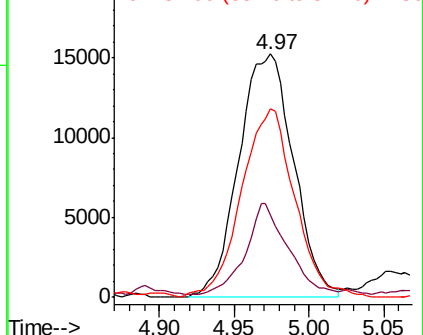
#29
Cyclohexane
Concen: 4.499 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU034674.D
Acq: 20 Sep 2019 02:06

Instrument :
MSVOA_U
ClientSampleId :
BFDH5

Tgt Ion: 56 Resp: 38746
Ion Ratio Lower Upper
56 100
69 31.1 21.7 32.5
84 75.5 58.8 88.2

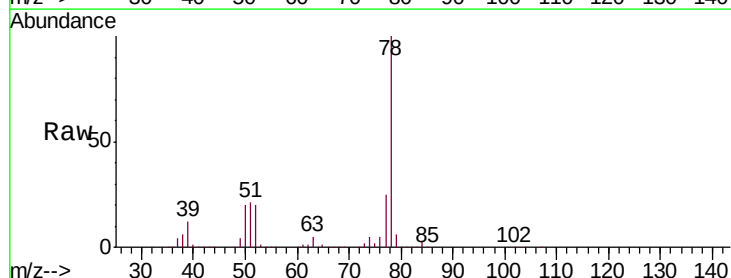


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

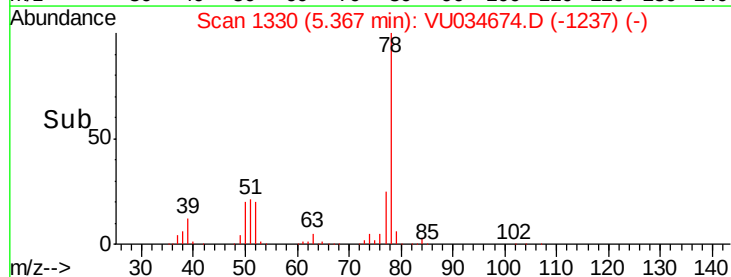
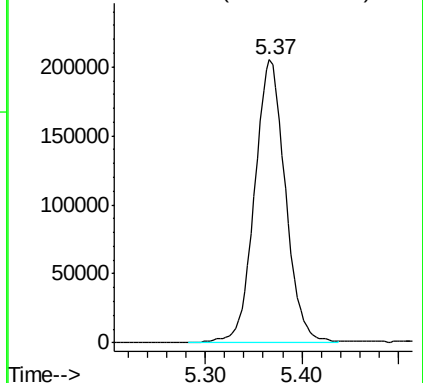


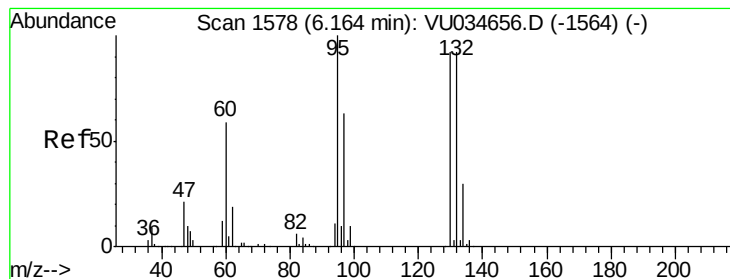
#33
Benzene
Concen: 25.083 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034674.D
Acq: 20 Sep 2019 02:06

Tgt Ion: 78 Resp: 453918



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 16.963 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

BFDH5

Tgt Ion: 95 Resp: 75810

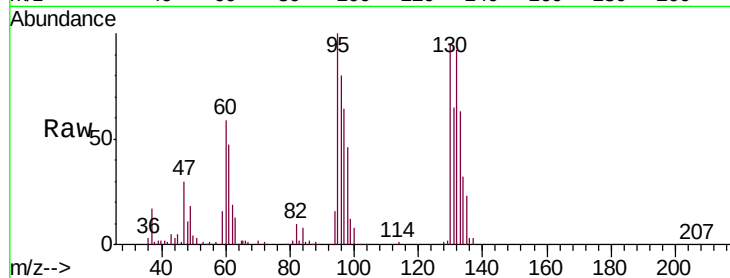
Ion Ratio Lower Upper

95 100

97 63.7 43.7 81.1

132 91.7 61.0 113.2

130 95.4 65.7 121.9

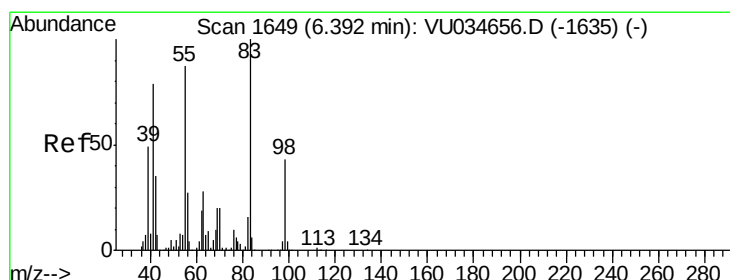
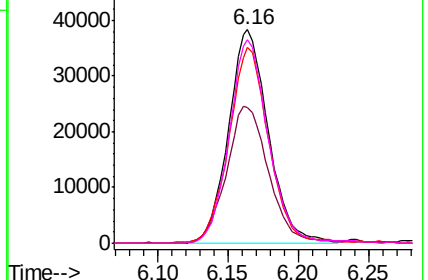
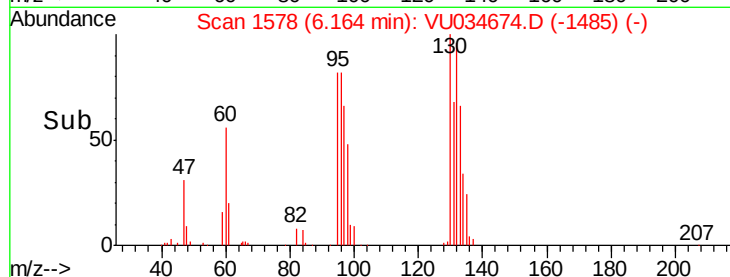


Abundance Ion 95.00 (94.70 to 95.70): VU034674.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU034674.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU034674.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU034674.D (-1485) (-)



#35

Methylcyclohexane

Concen: 4.465 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

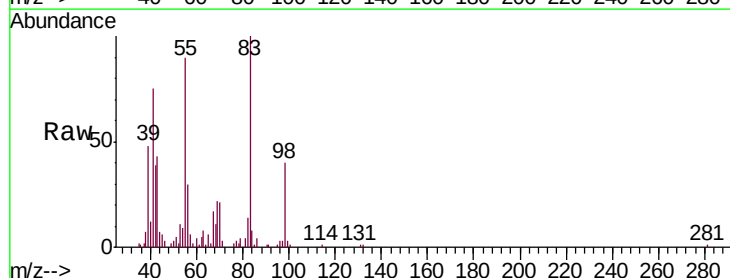
Tgt Ion: 83 Resp: 33867

Ion Ratio Lower Upper

83 100

55 90.4 71.6 107.4

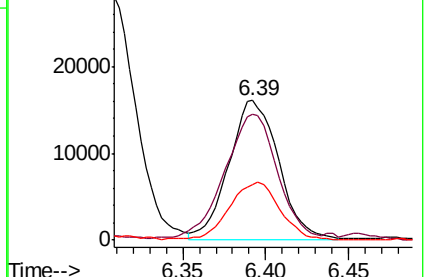
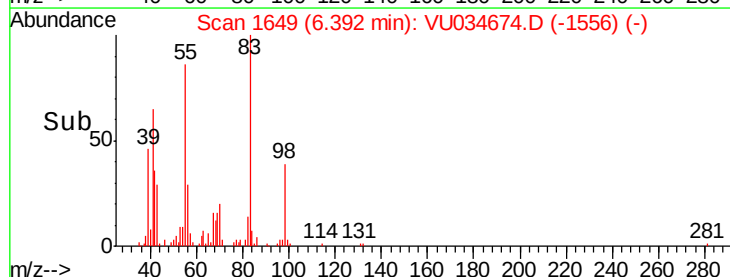
98 41.7 35.7 53.5

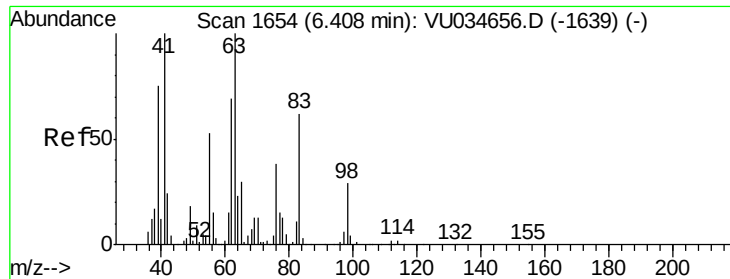


Abundance Ion 83.00 (82.70 to 83.70): VU034674.D (-1556) (-)

Ion 55.00 (54.70 to 55.70): VU034674.D (-1556) (-)

Ion 98.00 (97.70 to 98.70): VU034674.D (-1556) (-)

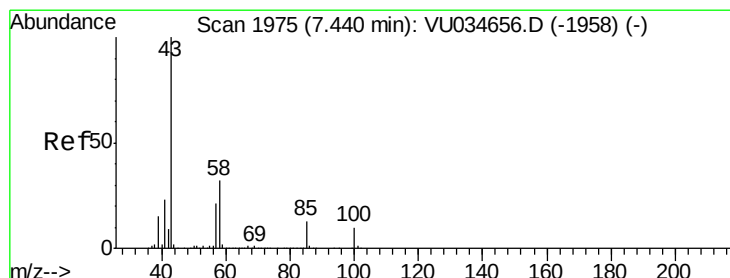
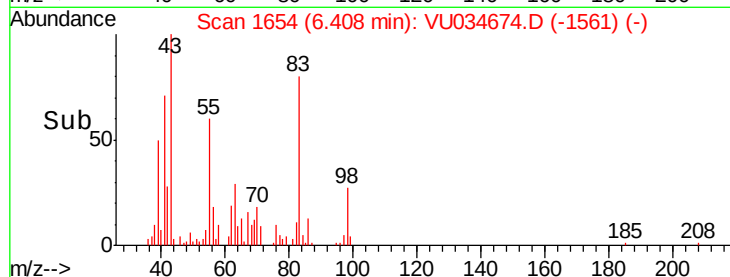
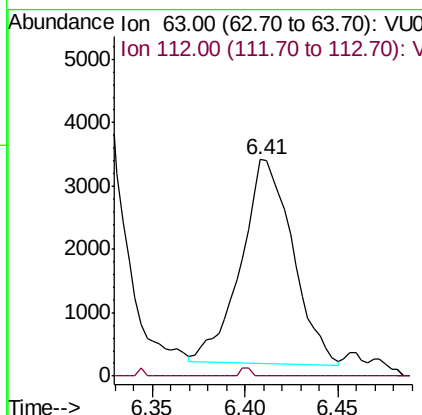
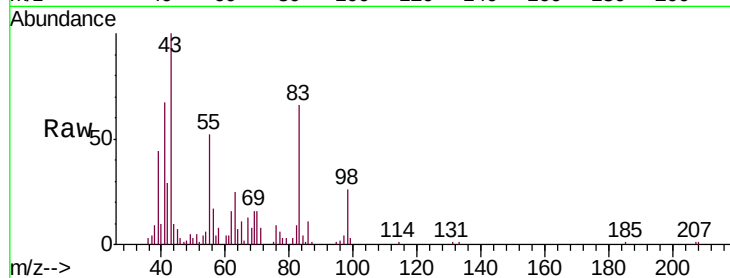




#37
 1,2-Dichloropropane
 Concen: 1.155 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VU034674.D
 Acq: 20 Sep 2019 02:06

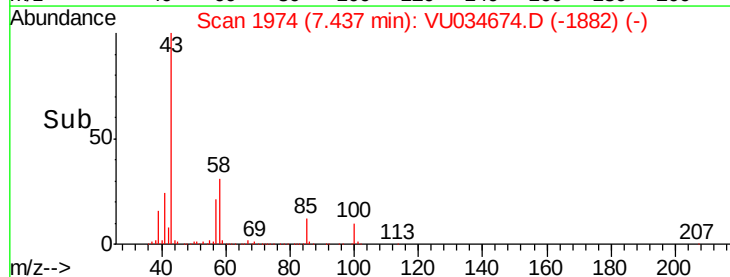
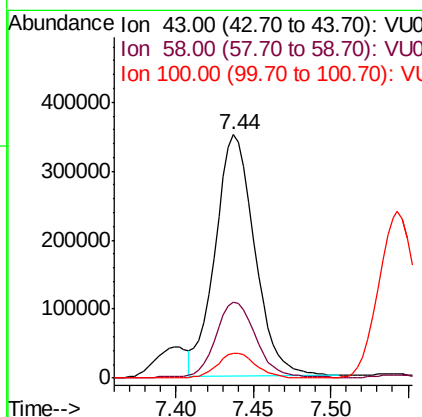
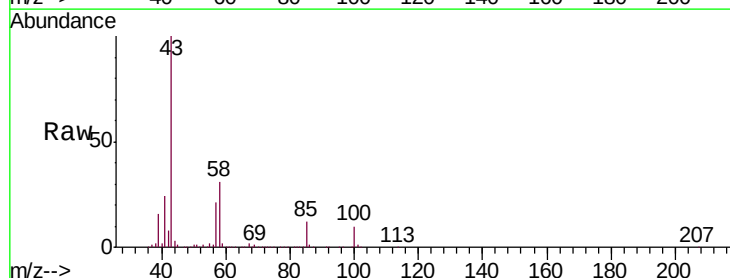
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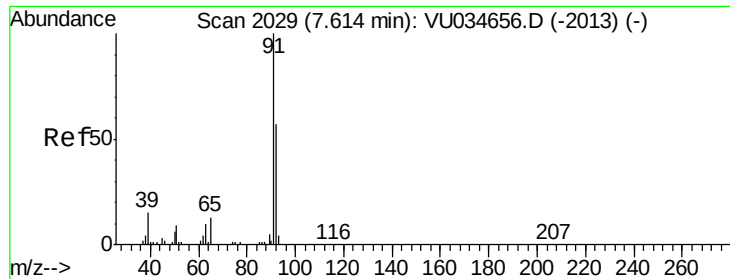
Tgt Ion: 63 Resp: 6225
 Ion Ratio Lower Upper
 63 100
 112 0.8 2.4 3.6#



#40
 4-Methyl-2-pentanone
 Concen: 59.983 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034674.D
 Acq: 20 Sep 2019 02:06

Tgt Ion: 43 Resp: 617073
 Ion Ratio Lower Upper
 43 100
 58 33.1 25.2 37.8
 100 10.4 7.7 11.5





#42

Toluene

Concen: 181.648 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

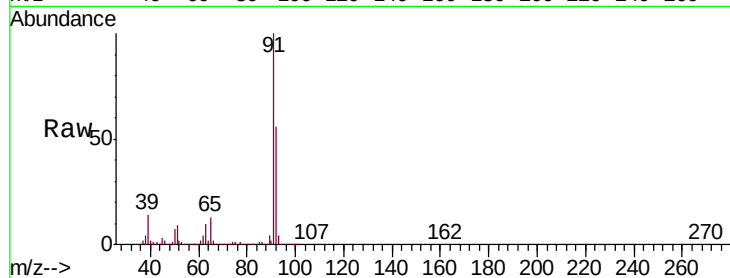
BFDH5

Tgt Ion: 91 Resp: 3552531

Ion Ratio Lower Upper

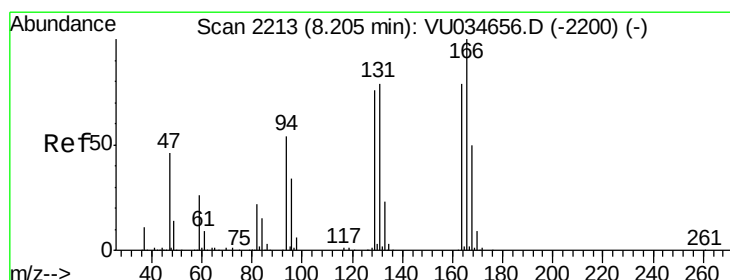
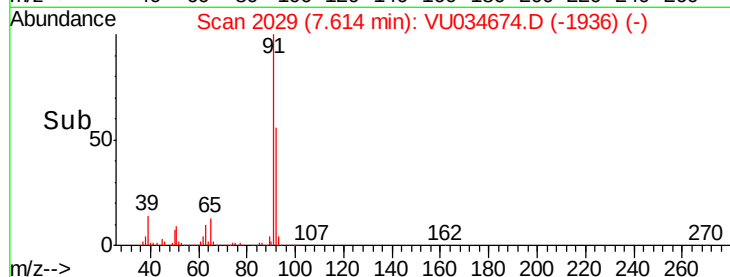
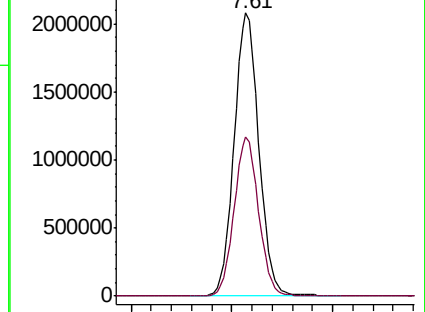
91 100

92 56.1 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: 4.850 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Tgt Ion: 164 Resp: 15248

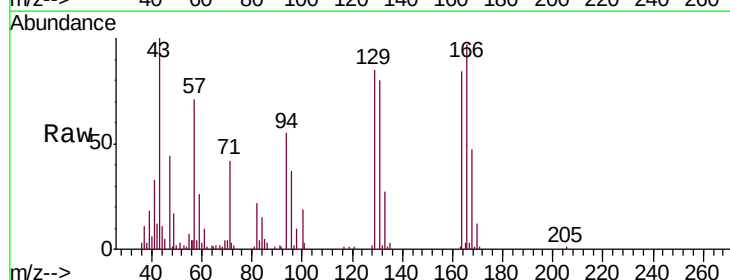
Ion Ratio Lower Upper

164 100

129 101.4 71.9 133.5

131 95.3 66.3 123.1

166 115.7 93.4 173.6

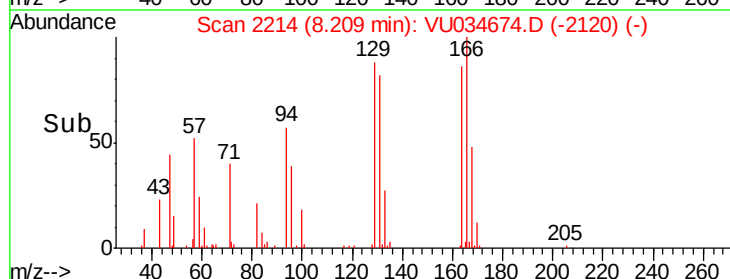
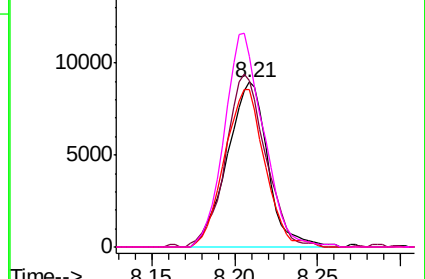


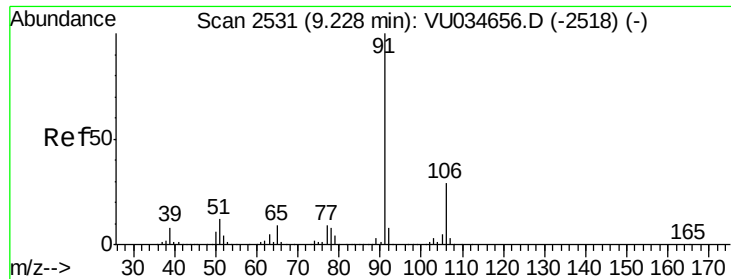
Abundance Ion 164.00 (163.70 to 164.70): VU034656.D (-2200) (-)

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) (-)





#52

Ethylbenzene

Concen: 38.424 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

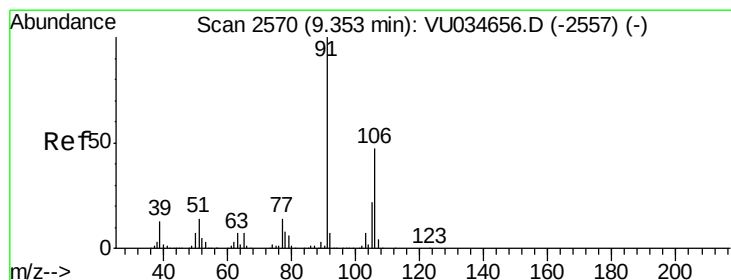
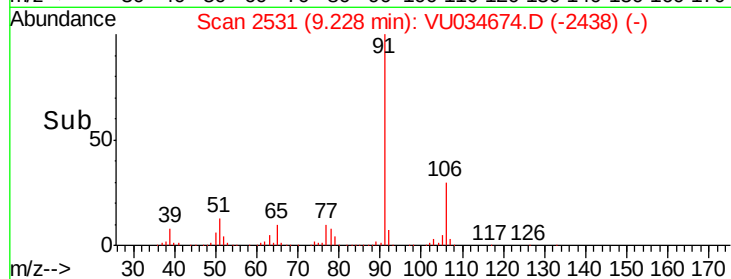
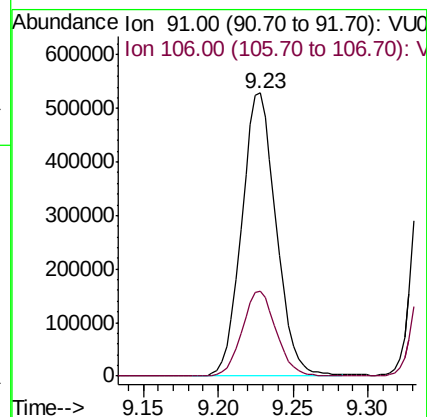
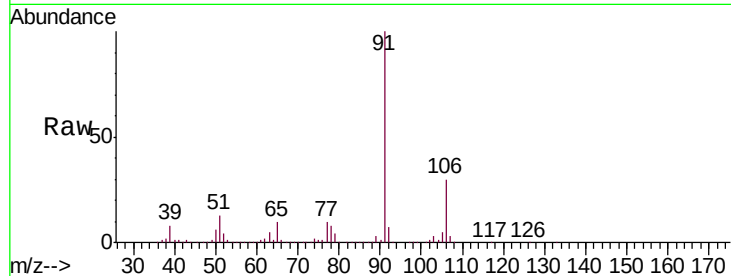
BFDH5

Tgt Ion: 91 Resp: 846214

Ion Ratio Lower Upper

91 100

106 30.1 20.6 38.4



#53

m,p-Xylene

Concen: 157.563 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034674.D

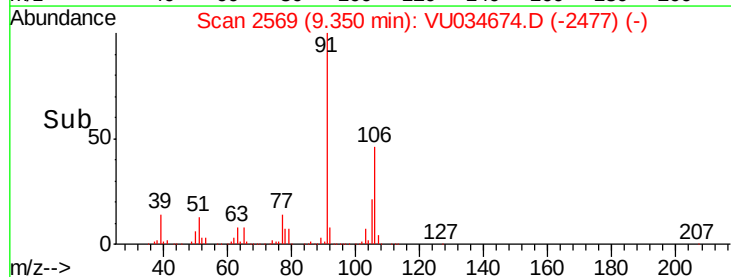
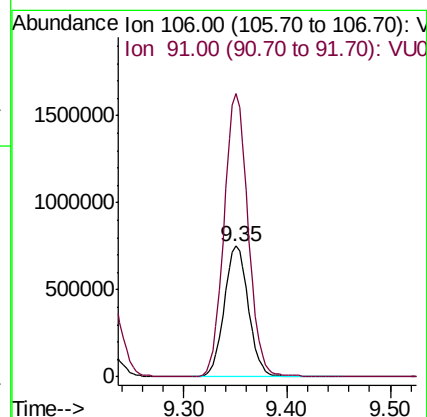
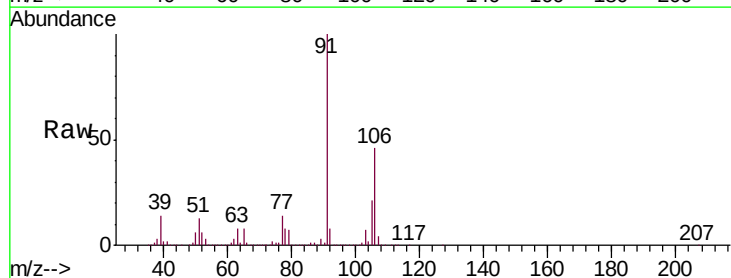
Acq: 20 Sep 2019 02:06

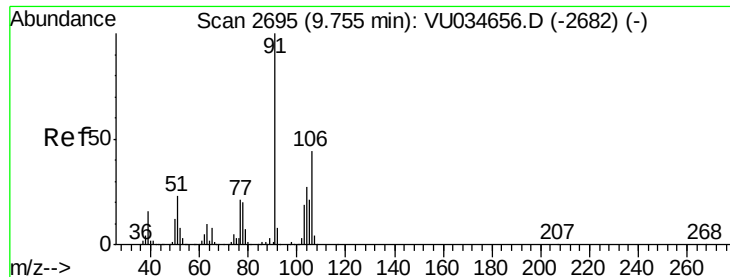
Tgt Ion: 106 Resp: 1229058

Ion Ratio Lower Upper

106 100

91 216.2 146.9 272.7





#54

o-xylene

Concen: 98.409 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

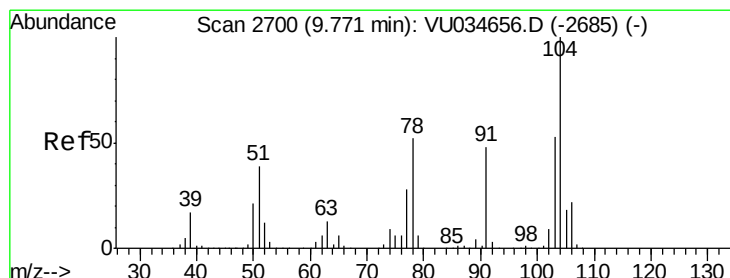
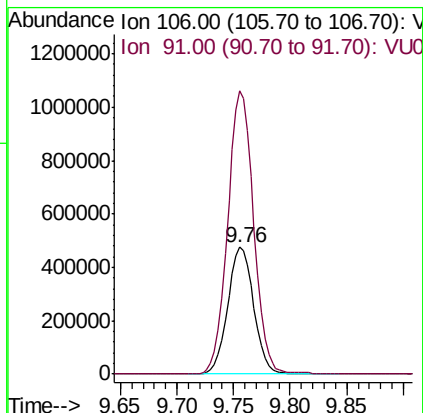
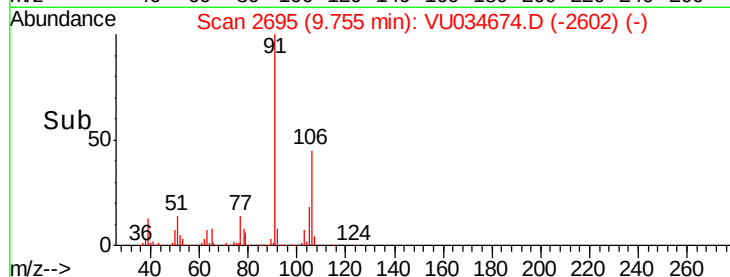
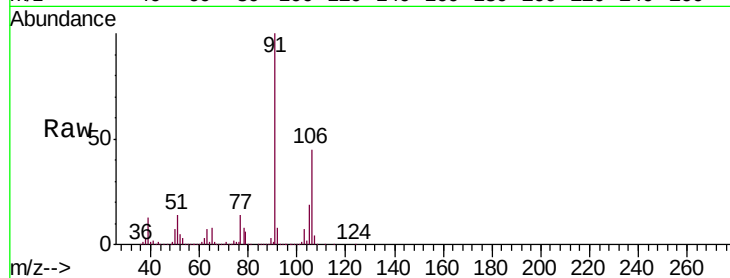
BFDH5

Tgt Ion:106 Resp: 759252

Ion Ratio Lower Upper

106 100

91 223.2 155.6 289.0



#55

Styrene

Concen: 3.457 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.02 min

Lab File: VU034674.D

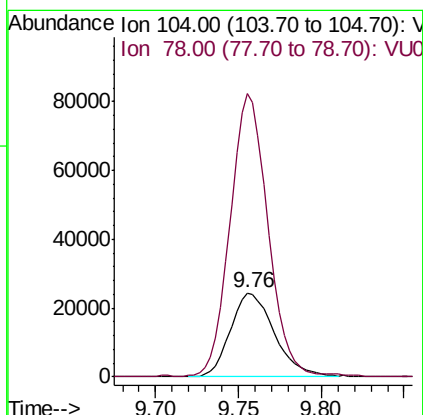
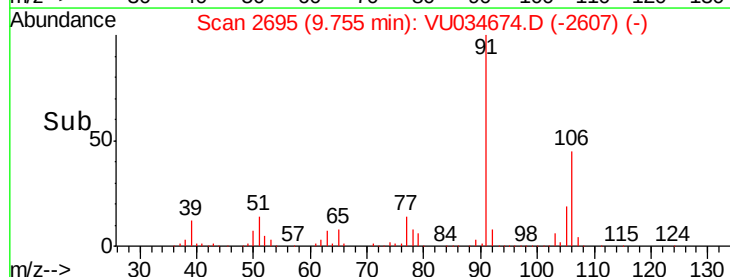
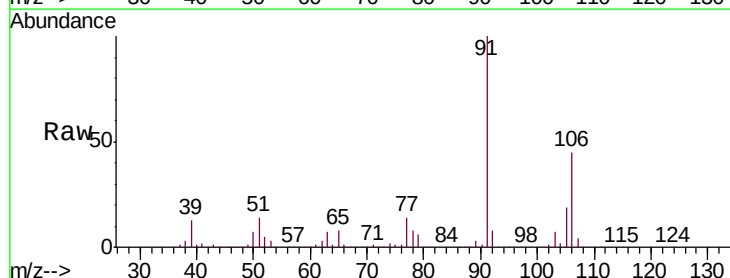
Acq: 20 Sep 2019 02:06

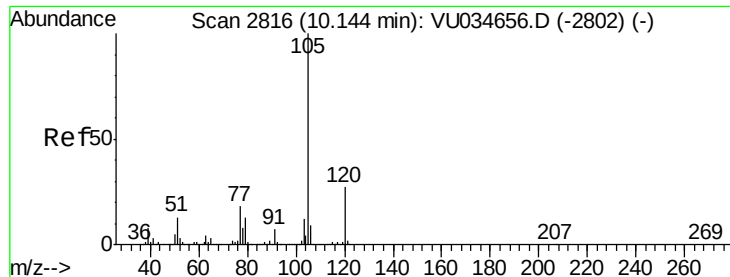
Tgt Ion:104 Resp: 45152

Ion Ratio Lower Upper

104 100

78 336.3 35.1 65.3#





#56

Isopropylbenzene

Concen: 3.789 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

BFDH5

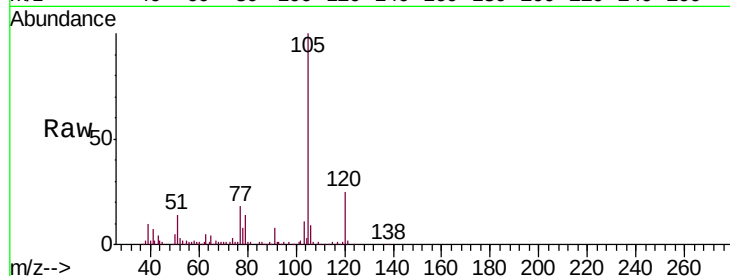
Tgt Ion:105 Resp: 78831

Ion Ratio Lower Upper

105 100

120 26.0 20.4 30.6

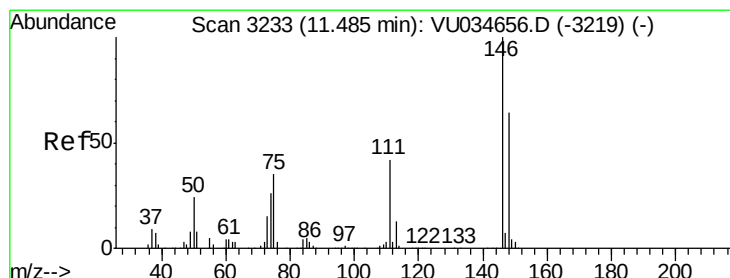
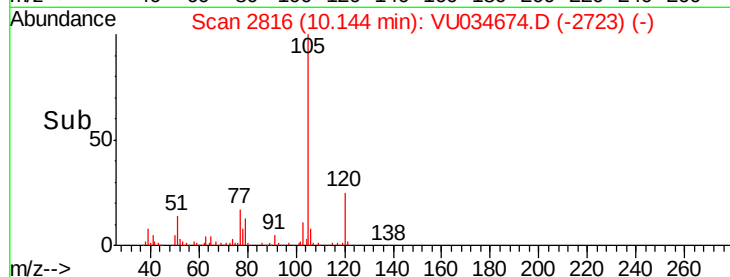
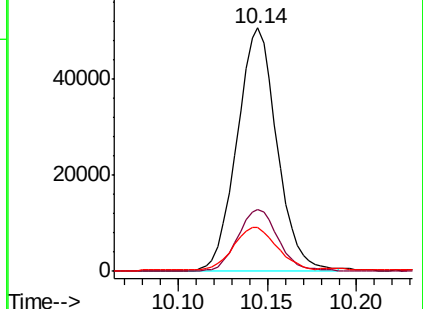
77 18.9 14.2 21.4



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): VU



#63

1,4-Dichlorobenzene

Concen: 1.279 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

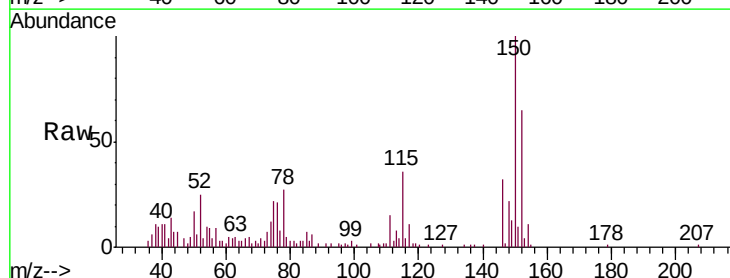
Tgt Ion:146 Resp: 11282

Ion Ratio Lower Upper

146 100

111 46.9 29.5 54.9

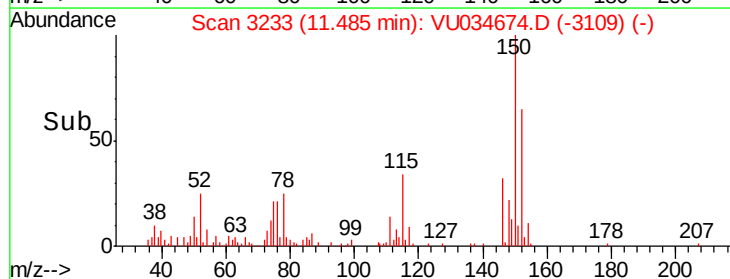
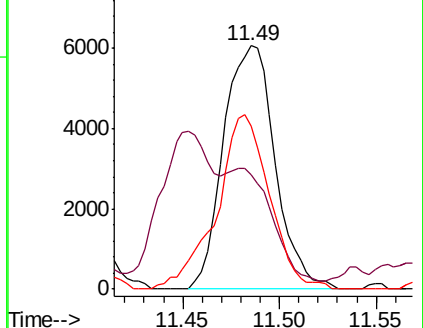
148 67.1 44.4 82.4

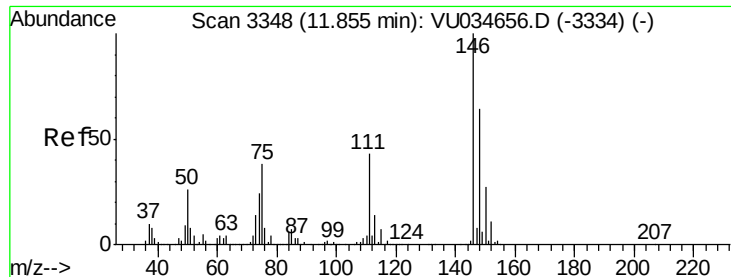


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 10.874 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

BFDH5

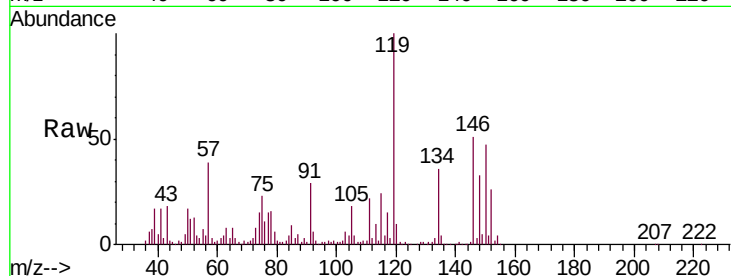
Tgt Ion:146 Resp: 95154

Ion Ratio Lower Upper

146 100

111 42.5 35.2 52.8

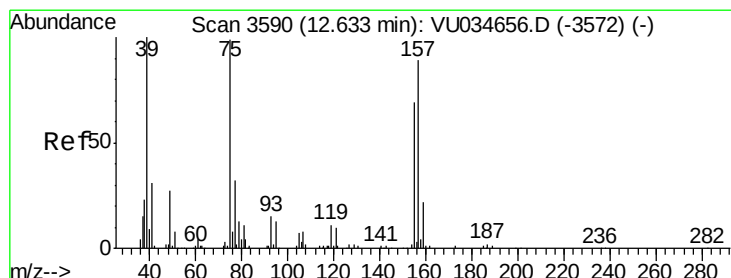
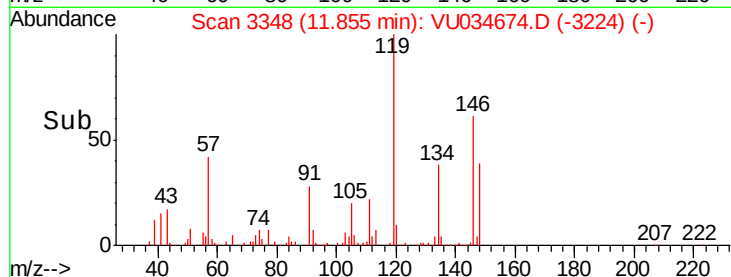
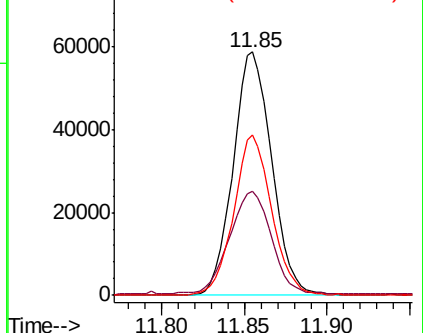
148 65.9 53.0 79.6



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: 1.042 ug/L

RT: 12.63 min Scan# 3589

Delta R.T. -0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

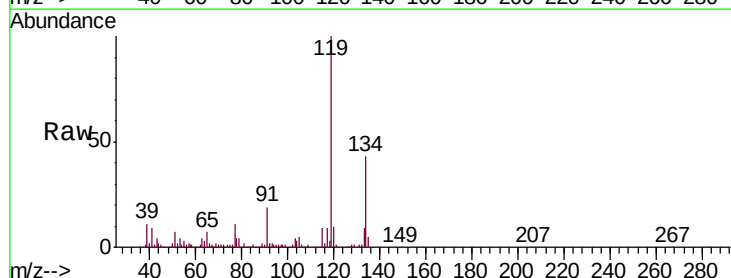
Tgt Ion: 75 Resp: 1938

Ion Ratio Lower Upper

75 100

155 15.9 54.7 82.1#

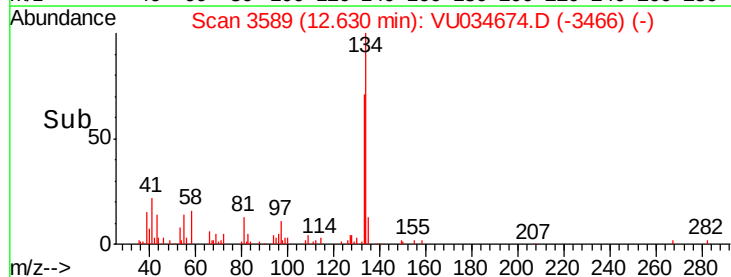
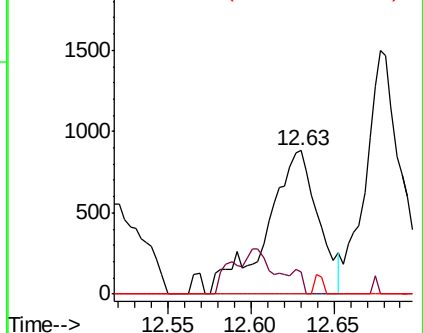
157 0.0 69.9 104.9#

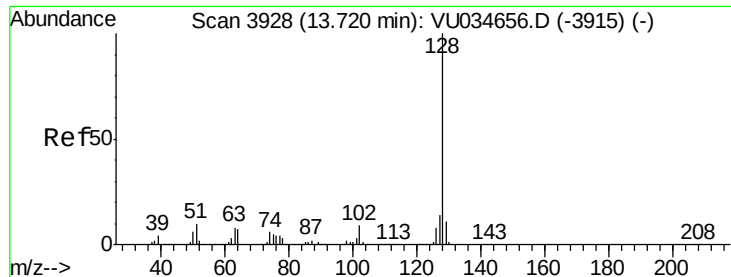


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 129.583 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034674.D

Acq: 20 Sep 2019 02:06

Instrument :

MSVOA_U

ClientSampleId :

BFDH5

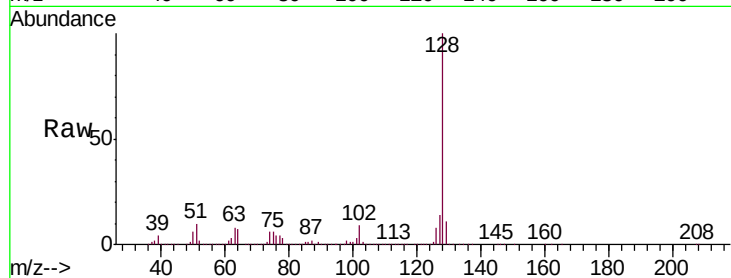
Tgt Ion:128 Resp: 2046975

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

129 10.8 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

