

Data File : VU034683.D
Acq On : 20 Sep 2019 13:01
Operator : JC/SP
Sample : K4895-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDF5

Quant Time: Sep 21 02:32:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Sep 21 02:29:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	489989	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	467068	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	225360	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	221373	44.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.26%
7) Chloroethane-d5	1.67	69	178980	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.34%
11) 1,1-Dichloroethene-d2	2.35	63	332	0.04	ug/L	0.09
Spiked Amount	50.000	Range	60 - 125	Recovery	=	0.08%#
21) 2-Butanone-d5	4.15	46	369848	96.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.20%
24) Chloroform-d	4.62	84	192567	26.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	52.82%#
26) 1,2-Dichloroethane-d4	5.29	65	258465	48.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.42%
32) Benzene-d6	5.32	84	698339	48.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.48%
36) 1,2-Dichloropropane-d6	6.31	67	249046	49.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.44%
41) Toluene-d8	7.54	98	667060	48.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.86%
43) trans-1,3-Dichloropropene-	7.83	79	109998	45.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.78%
47) 2-Hexanone-d5	8.29	63	250217	98.46	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.46%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	86866	12.37	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	24.74%#
64) 1,2-Dichlorobenzene-d4	11.84	152	233301	49.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.74%

Target Compounds

					Qvalue
13) Acetone	2.31	43	20952	4.685	ug/L 99
16) Methylene chloride	2.68	84	4356	1.073	ug/L 96
25) Chloroform	4.65	83	160470	20.267	ug/L 98
34) Trichloroethene	6.16	95	10025	2.506	ug/L # 85
35) Methylcyclohexane	6.39	83	11211	1.651	ug/L 95
40) 4-Methyl-2-pentanone	7.40	43	79237	8.604	ug/L # 58
42) Toluene	7.61	91	252275	14.410	ug/L 97
46) Tetrachloroethene	8.21	164	90560	32.181	ug/L 94
48) 2-Hexanone	8.29	43	143639	19.971	ug/L # 53
52) Ethylbenzene	9.23	91	139583	7.080	ug/L 100
53) m,p-Xylene	9.35	106	318974	45.681	ug/L 96
54) o-xylene	9.76	106	590091	85.441	ug/L 96
55) Styrene	9.76	104	32318	2.764	ug/L # 1
56) Isopropylbenzene	10.14	105	28127	1.510	ug/L 95
62) 1,3-Dichlorobenzene	11.40	146	12707	1.628	ug/L 90
63) 1,4-Dichlorobenzene	11.49	146	20660	2.599	ug/L 94
65) 1,2-Dichlorobenzene	11.85	146	209941	26.623	ug/L 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092019\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Sat Sep 21 02:29:10 2019
Response via : Initial Calibration

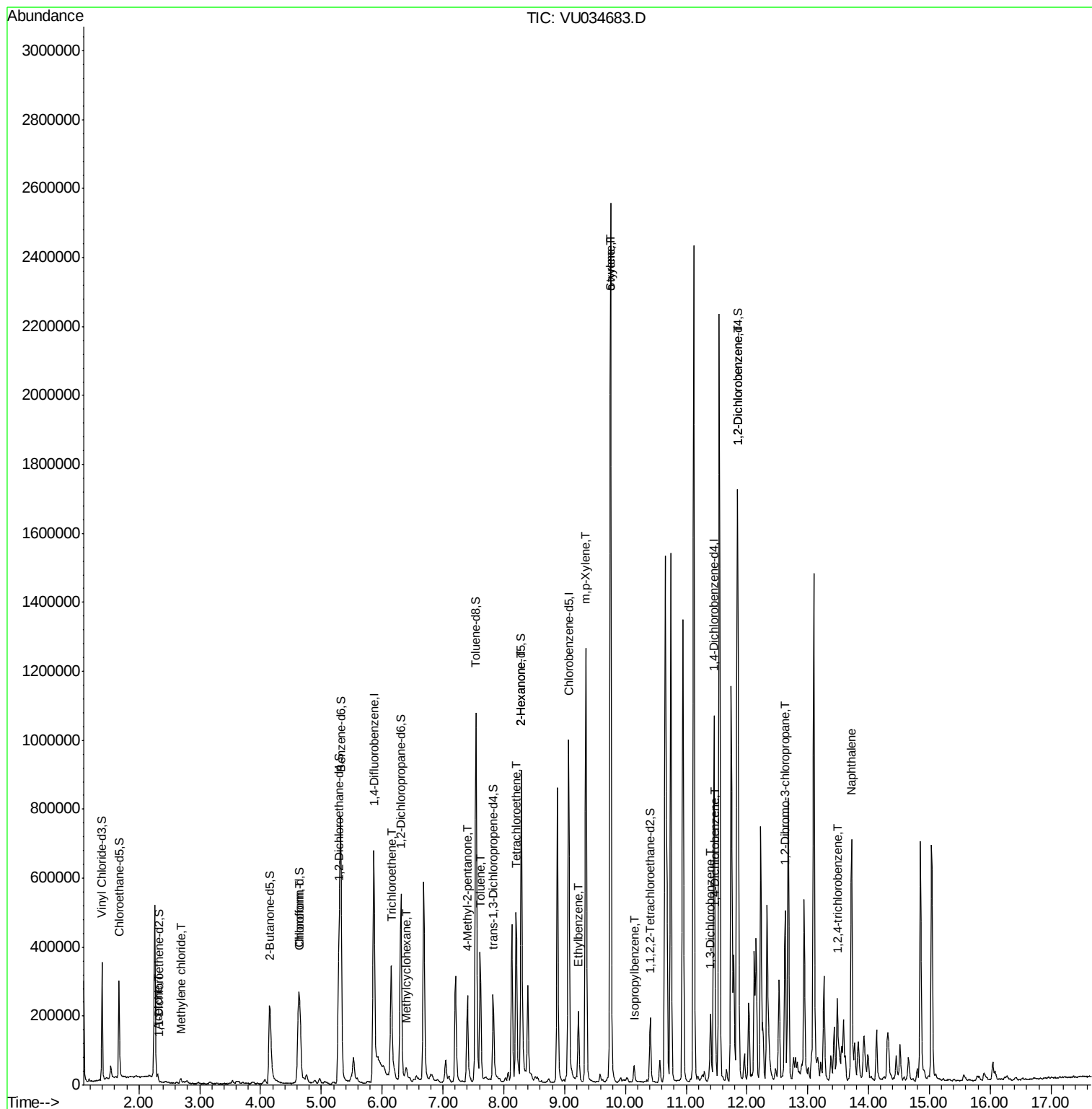
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.63	75	2700	1.611	ug/L #	10
68) 1,2,4-trichlorobenzene	13.48	180	7629	1.855	ug/L #	69
69) Naphthalene	13.72	128	516873	36.309	ug/L	100

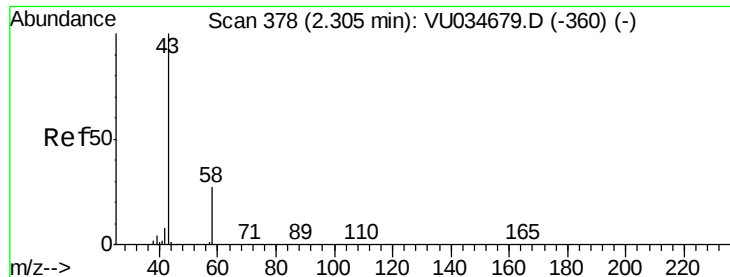
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 4.685 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

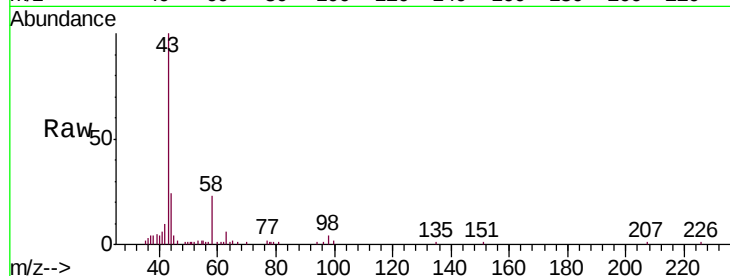
BDF5

Tgt Ion: 43 Resp: 20952

Ion Ratio Lower Upper

43 100

58 27.2 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034679.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU034679.D (-360) (-)

2.31

15000

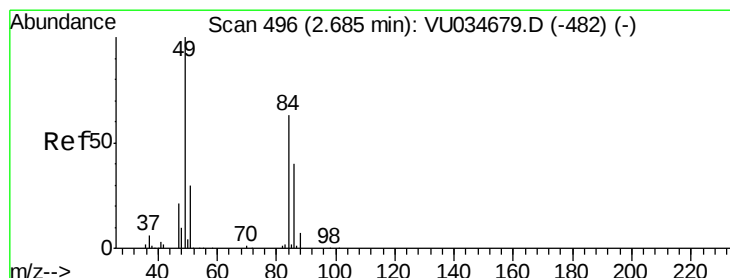
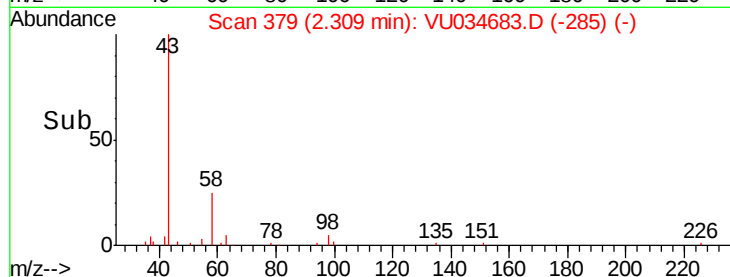
10000

5000

0

2.25 2.30 2.35

Time-->



#16

Methylene chloride

Concen: 1.073 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

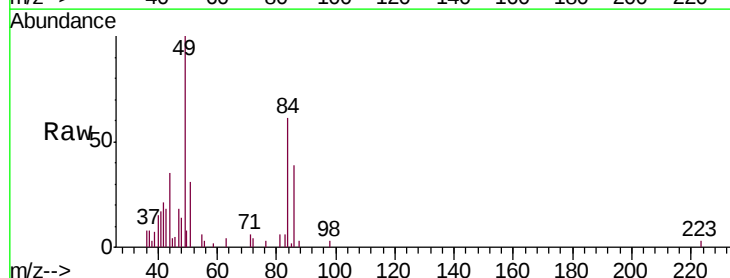
Tgt Ion: 84 Resp: 4356

Ion Ratio Lower Upper

84 100

86 62.9 43.0 80.0

49 163.0 109.7 203.7



Abundance Ion 84.00 (83.70 to 84.70): VU034679.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU034679.D (-482) (-)

Ion 49.00 (48.70 to 49.70): VU034679.D (-482) (-)

5000

4000

3000

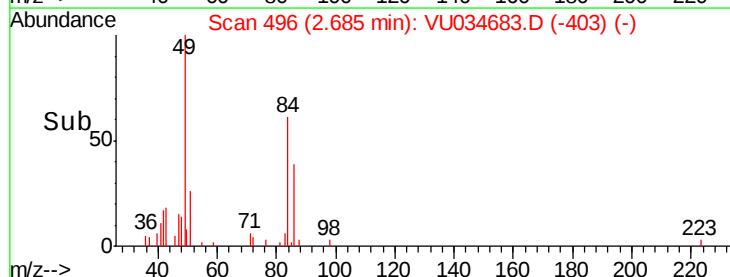
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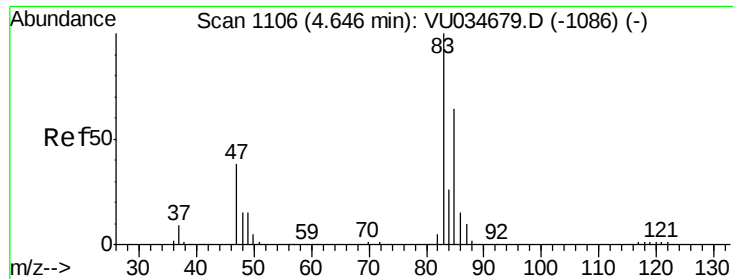
1000

0

2.65 2.70 2.75

Time-->

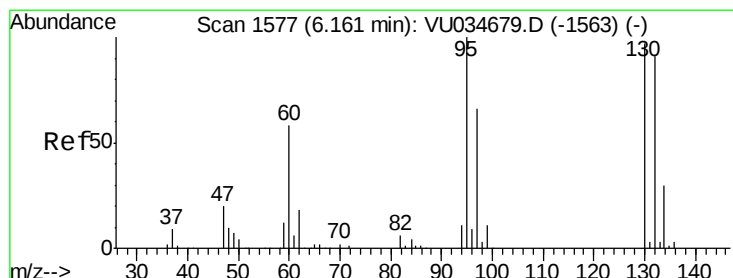
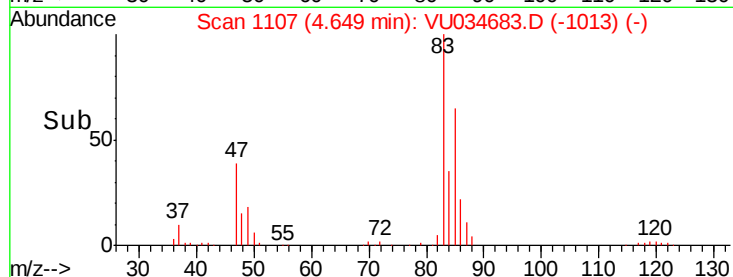
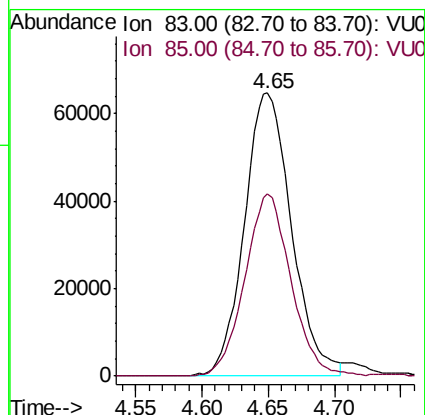
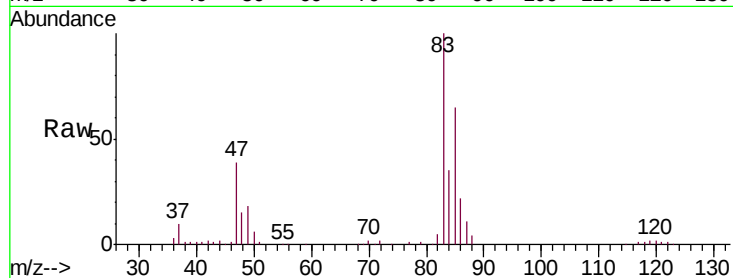




#25
Chloroform
Concen: 20.267 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

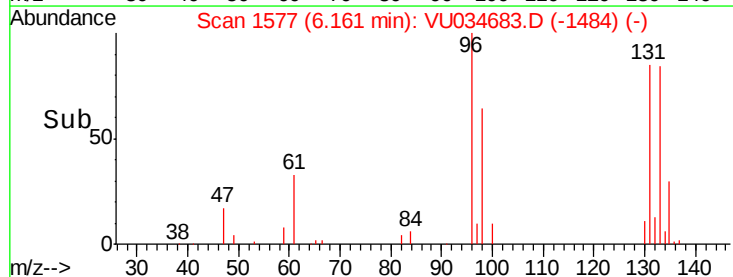
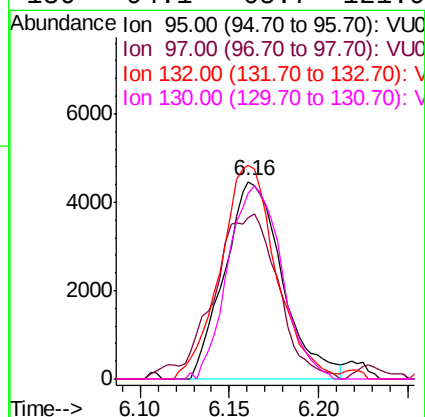
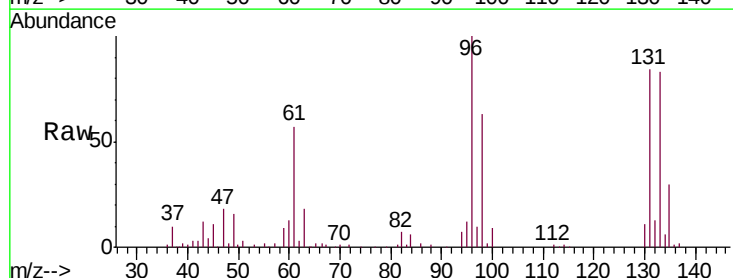
Instrument :
MSVOA_U
ClientSampled :
BFDF5

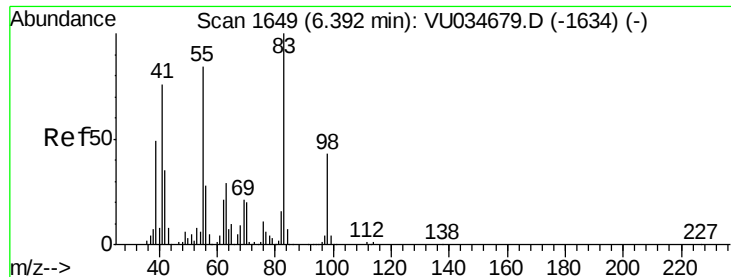
Tgt Ion: 83 Resp: 160470
Ion Ratio Lower Upper
83 100
85 64.6 44.0 81.6



#34
Trichloroethene
Concen: 2.506 ug/L
RT: 6.16 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

Tgt Ion: 95 Resp: 10025
Ion Ratio Lower Upper
95 100
97 81.9 43.7 81.1#
132 108.3 61.0 113.2
130 94.1 65.7 121.9

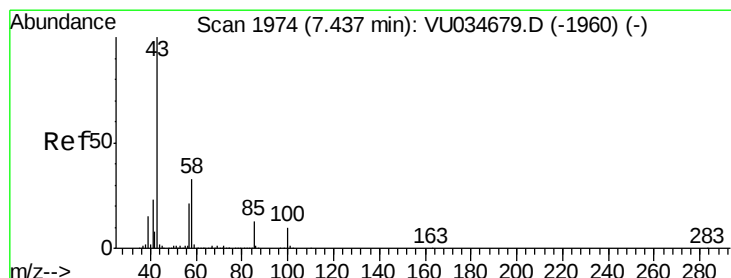
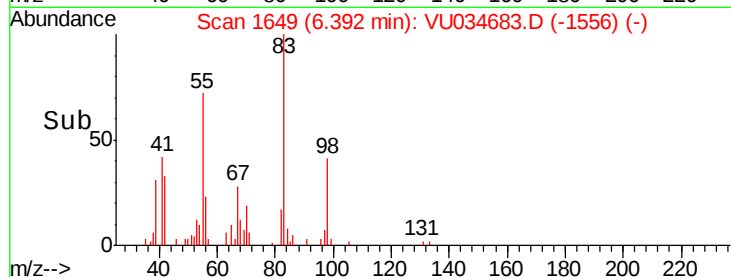
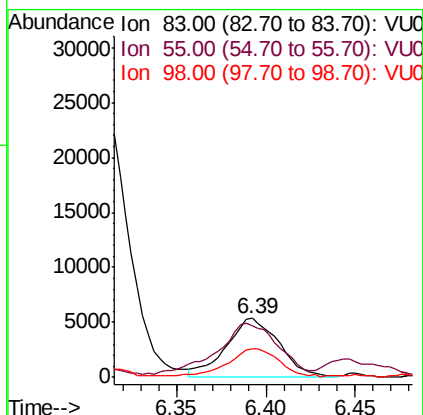
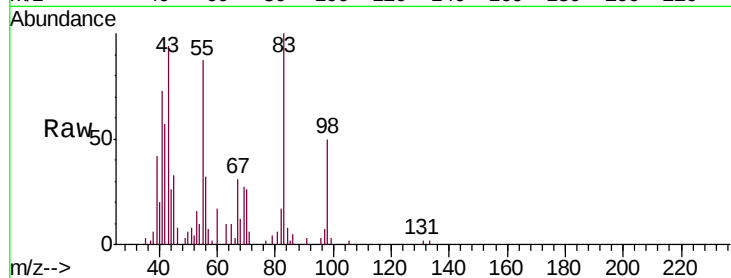




#35
Methylcyclohexane
Concen: 1.651 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

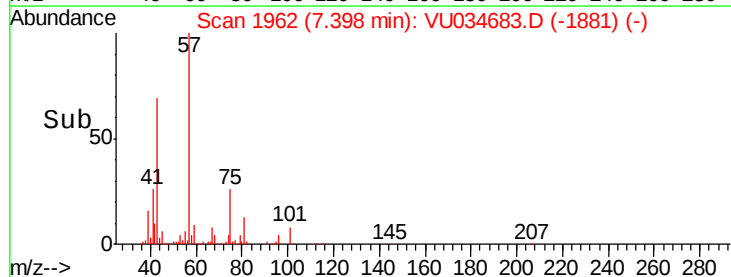
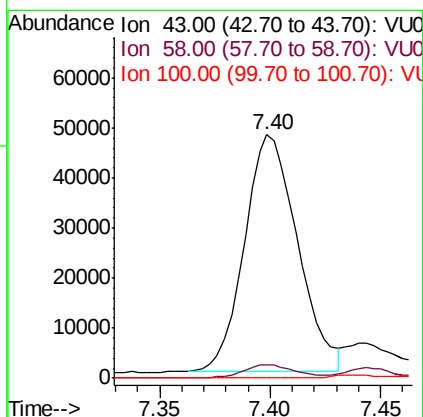
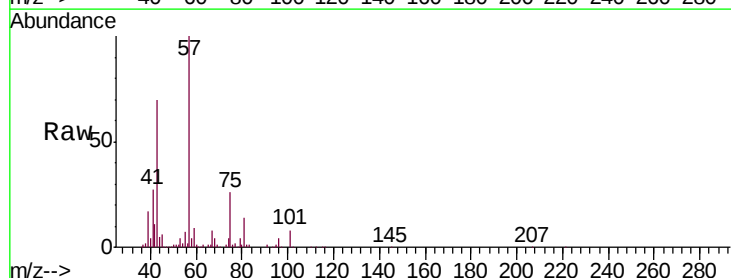
Instrument :
MSVOA_U
ClientSampleId :
BPDF5

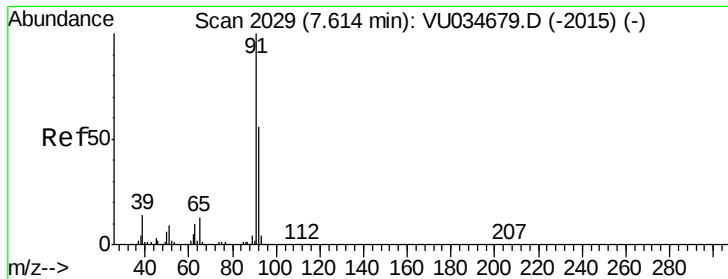
Tgt Ion: 83 Resp: 11211
Ion Ratio Lower Upper
83 100
55 94.9 71.6 107.4
98 47.7 35.7 53.5



#40
4-Methyl-2-pentanone
Concen: 8.604 ug/L
RT: 7.40 min Scan# 1962
Delta R.T. -0.04 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

Tgt Ion: 43 Resp: 79237
Ion Ratio Lower Upper
43 100
58 5.5 25.2 37.8#
100 0.0 7.7 11.5#





#42

Toluene

Concen: 14.410 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

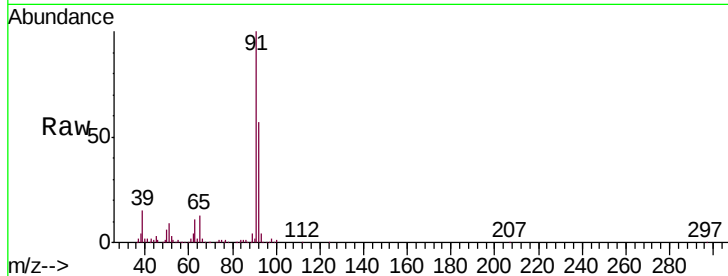
BPDF5

Tgt Ion: 91 Resp: 252275

Ion Ratio Lower Upper

91 100

92 56.7 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034679.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU034679.D (-2015) (-)

7.61

150000

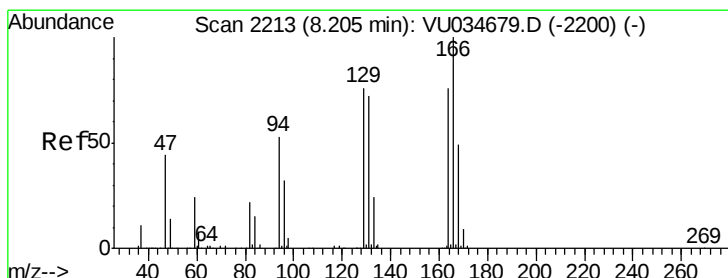
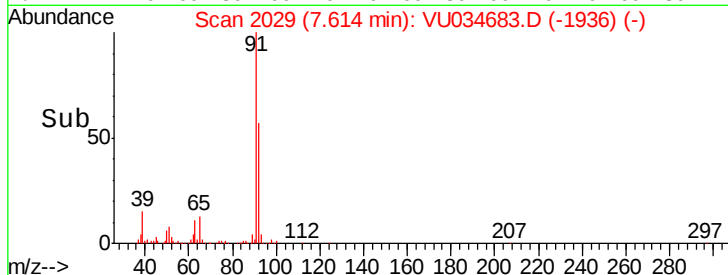
100000

50000

0

7.55 7.60 7.65 7.70

Time-->



#46

Tetrachloroethene

Concen: 32.181 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

Tgt Ion: 164 Resp: 90560

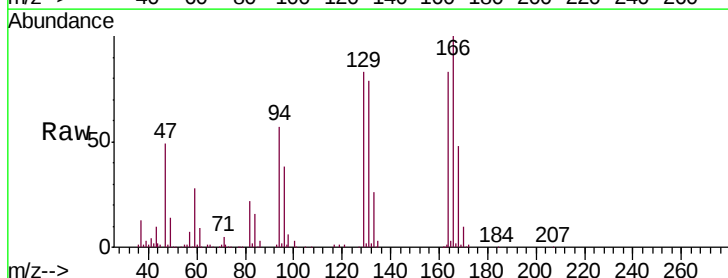
Ion Ratio Lower Upper

164 100

129 99.4 71.9 133.5

131 94.3 66.3 123.1

166 119.8 93.4 173.6



Abundance Ion 164.00 (163.70 to 164.70): VU034679.D (-2200) (-)

Ion 129.00 (128.70 to 129.70): VU034679.D (-2200) (-)

Ion 131.00 (130.70 to 131.70): VU034679.D (-2200) (-)

Ion 166.00 (165.70 to 166.70): VU034679.D (-2200) (-)

100000

80000

60000

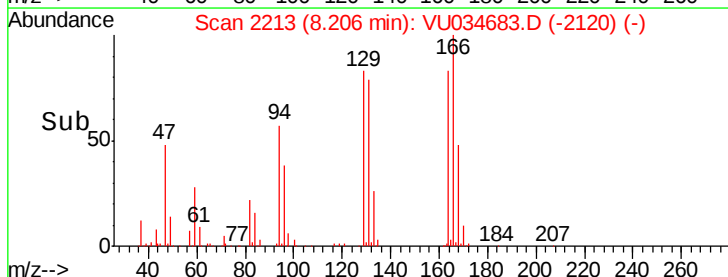
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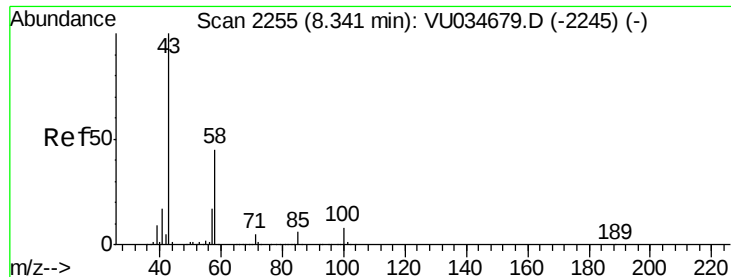
20000

0

8.15 8.20 8.25 8.30

Time-->

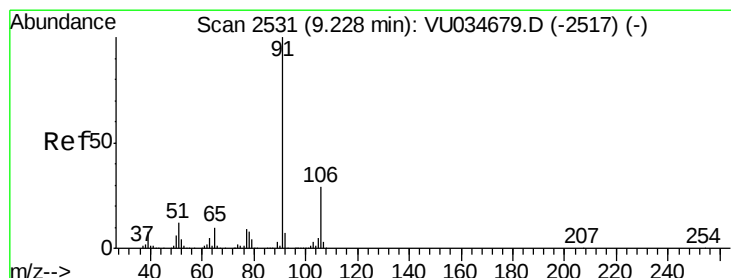
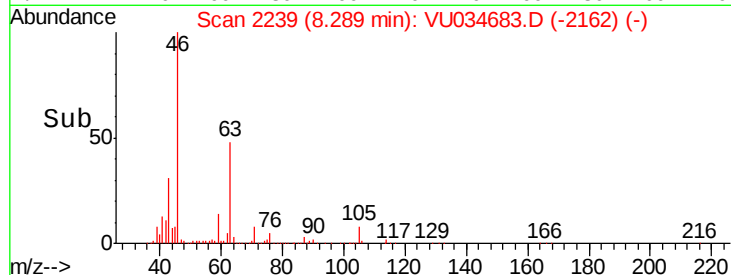
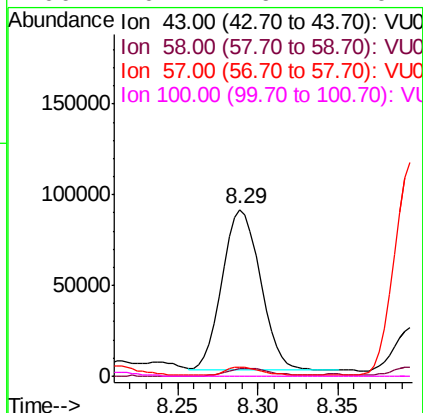
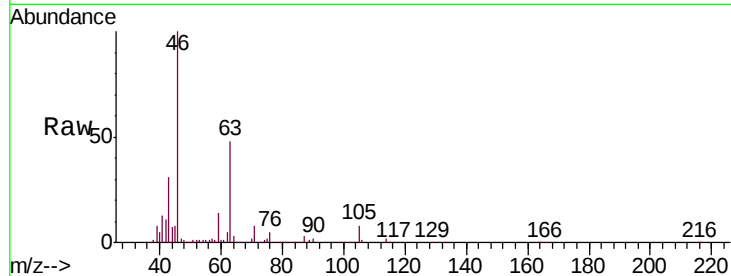




#48
2-Hexanone
Concen: 19.971 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.05 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

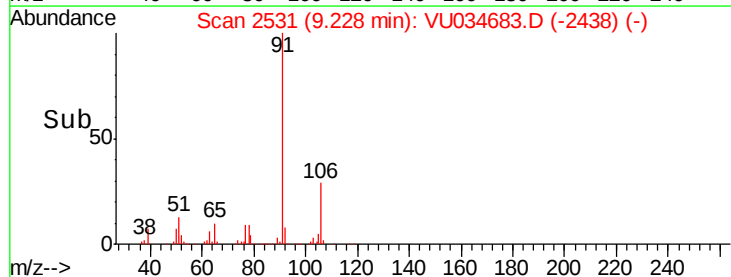
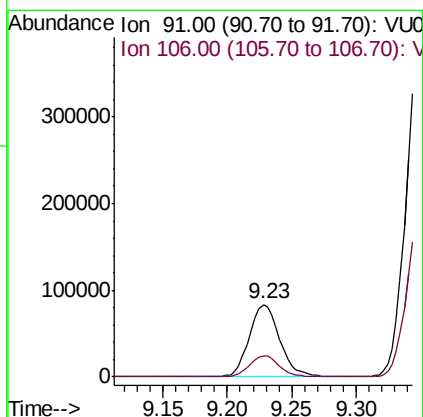
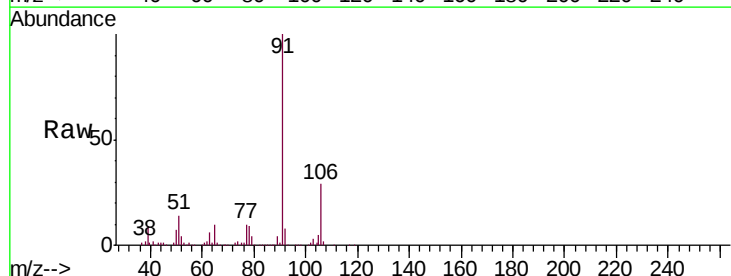
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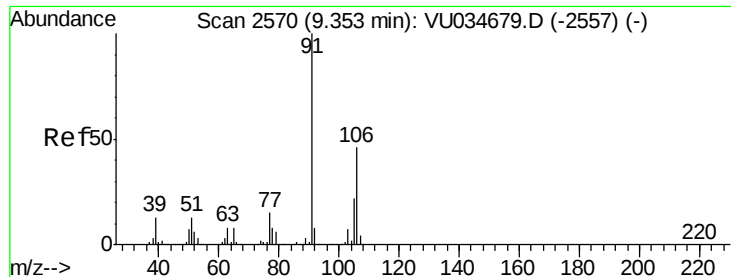
Tgt Ion: 43 Resp: 143639
Ion Ratio Lower Upper
43 100
58 6.2 35.3 52.9#
57 4.8 12.1 18.1#
100 0.1 6.2 9.4#



#52
Ethylbenzene
Concen: 7.080 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

Tgt Ion: 91 Resp: 139583
Ion Ratio Lower Upper
91 100
106 29.4 20.6 38.4

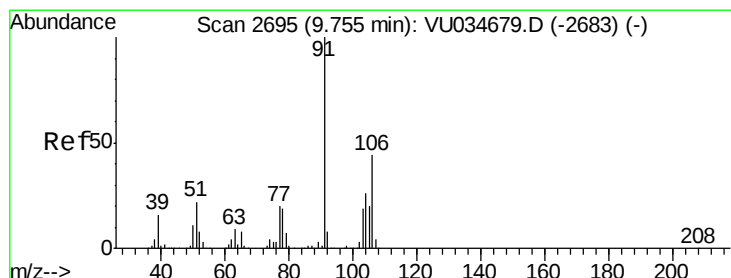
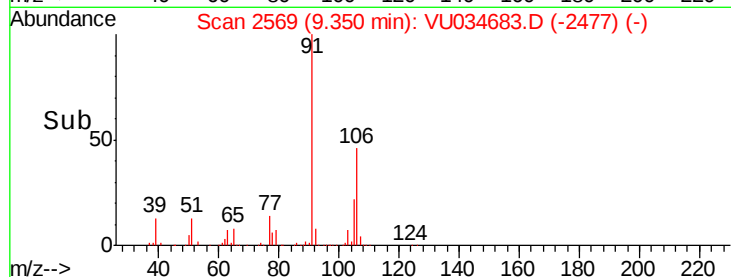
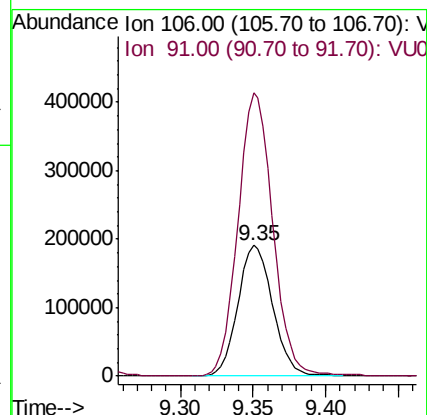
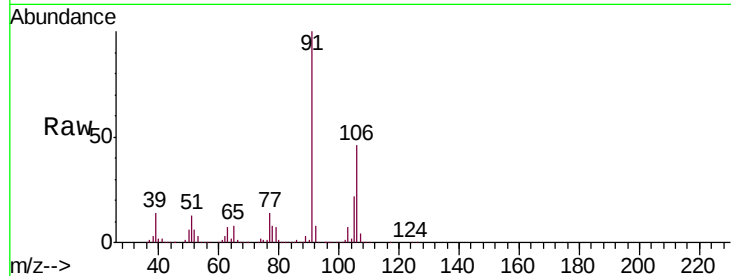




#53
m,p-Xylene
Concen: 45.681 ug/L
RT: 9.35 min Scan# 2569
Delta R.T. -0.00 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

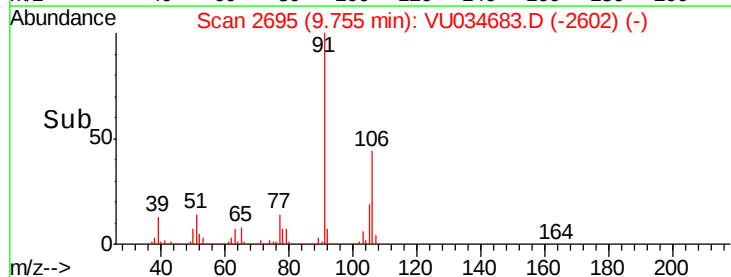
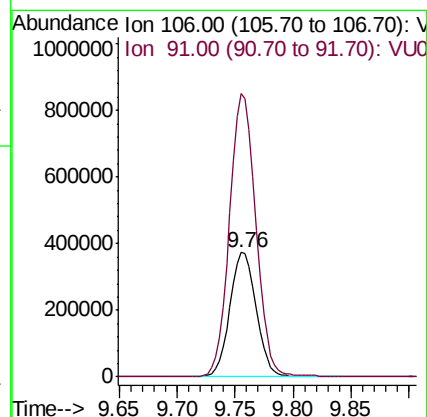
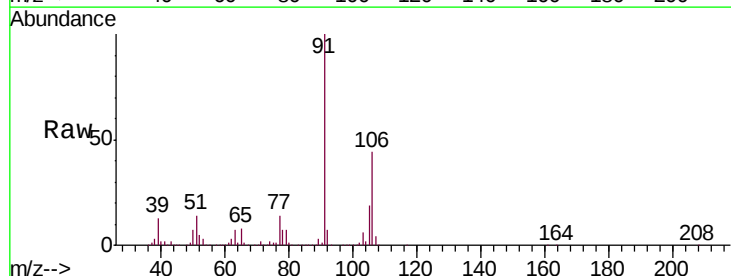
Instrument :
MSVOA_U
ClientSampleId :
BPDF5

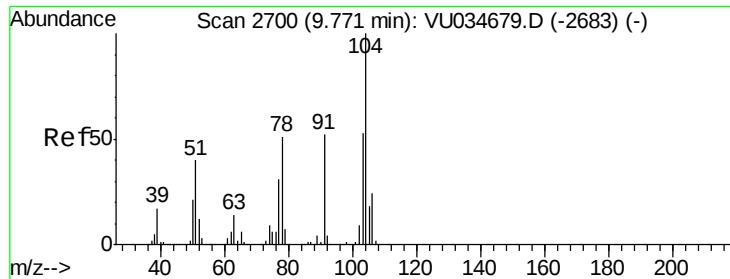
Tgt Ion:106 Resp: 318974
Ion Ratio Lower Upper
106 100
91 216.3 146.9 272.7



#54
o-xylene
Concen: 85.441 ug/L
RT: 9.76 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU034683.D
Acq: 20 Sep 2019 13:01

Tgt Ion:106 Resp: 590091
Ion Ratio Lower Upper
106 100
91 228.1 155.6 289.0





#55

Styrene

Concen: 2.764 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. -0.01 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

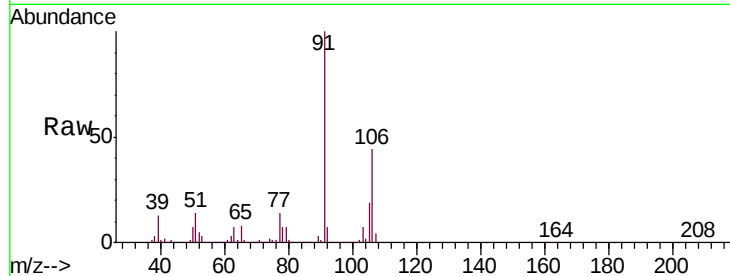
BDF5

Tgt Ion:104 Resp: 32318

Ion Ratio Lower Upper

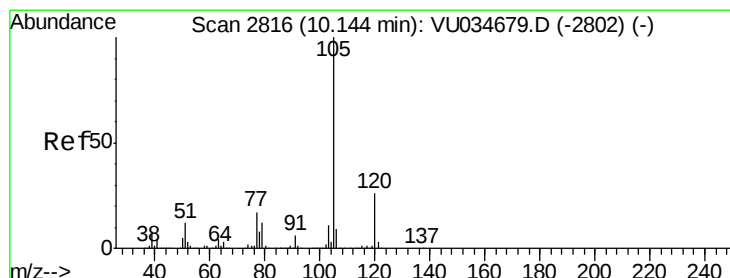
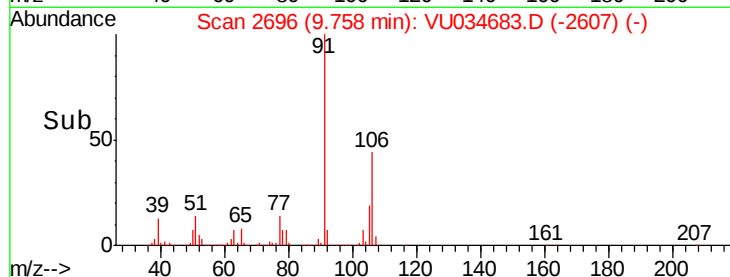
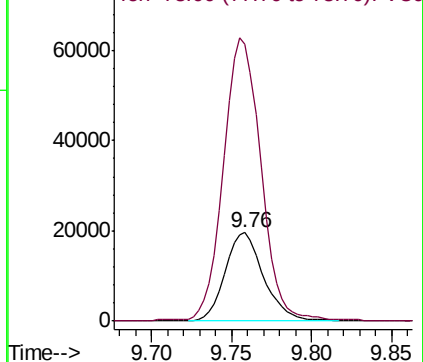
104 100

78 313.3 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: 1.510 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

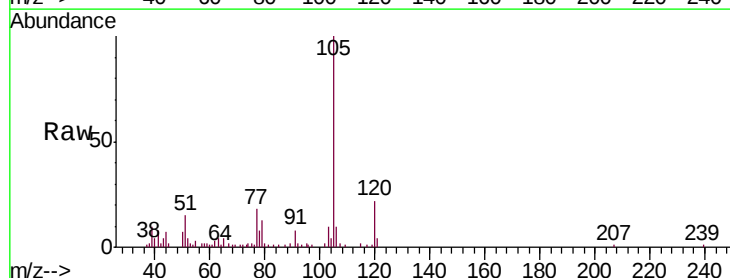
Tgt Ion:105 Resp: 28127

Ion Ratio Lower Upper

105 100

120 24.0 20.4 30.6

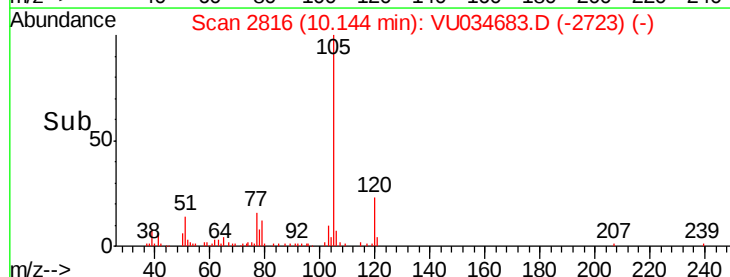
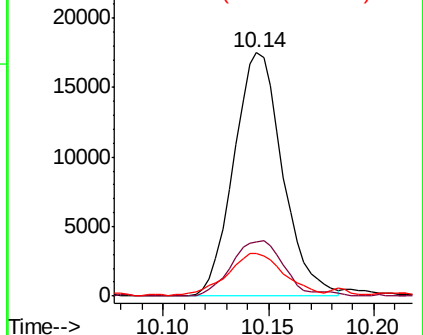
77 20.8 14.2 21.4

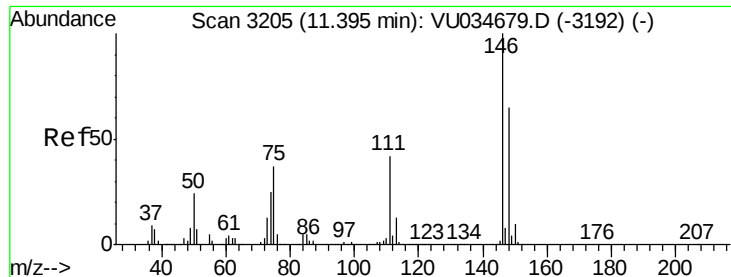


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#62

1,3-Dichlorobenzene

Concen: 1.628 ug/L

RT: 11.40 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampled :

BFDF5

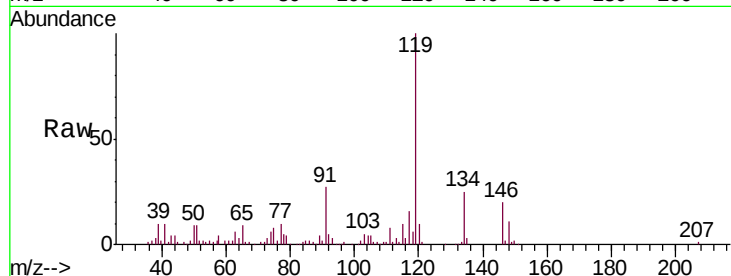
Tgt Ion:146 Resp: 12707

Ion Ratio Lower Upper

146 100

111 39.0 30.4 56.5

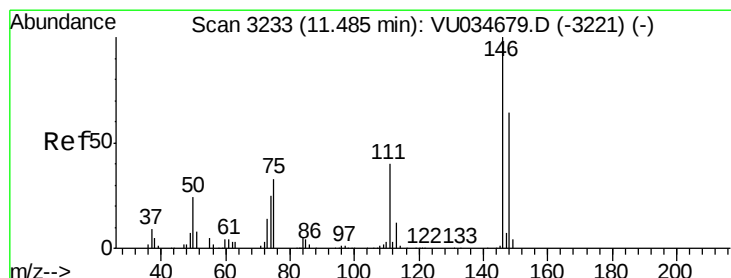
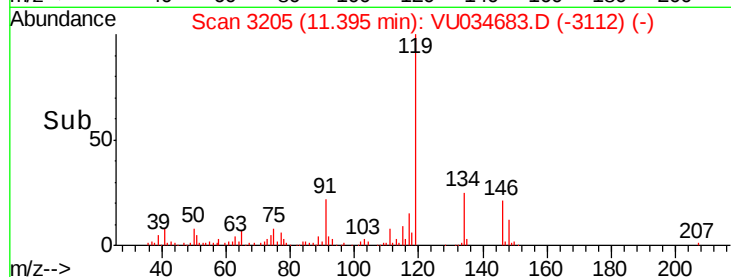
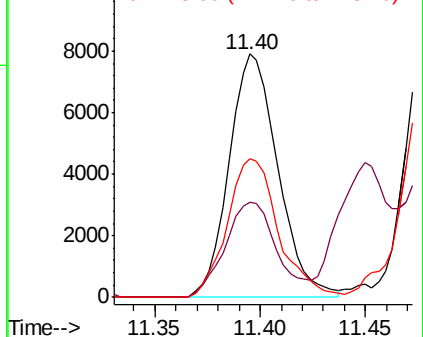
148 56.9 46.1 85.7



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



#63

1,4-Dichlorobenzene

Concen: 2.599 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

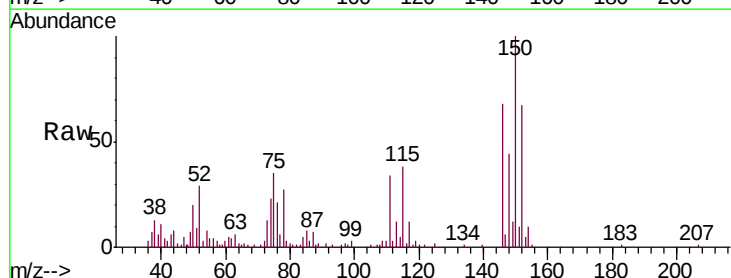
Tgt Ion:146 Resp: 20660

Ion Ratio Lower Upper

146 100

111 49.8 29.5 54.9

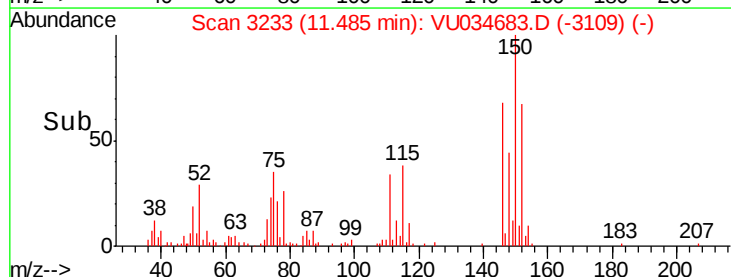
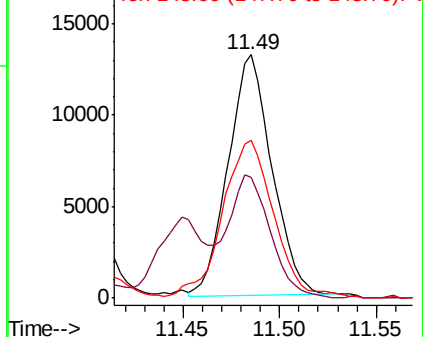
148 64.8 44.4 82.4

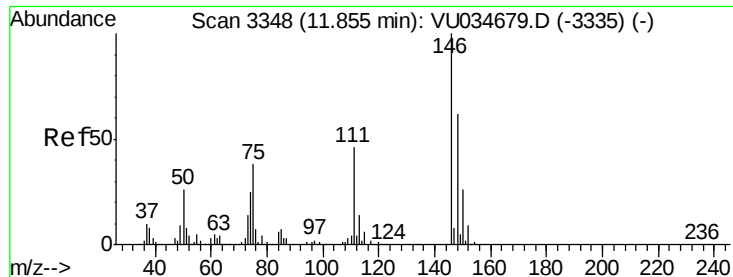


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 26.623 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

Instrument :

MSVOA_U

ClientSampleId :

BDF5

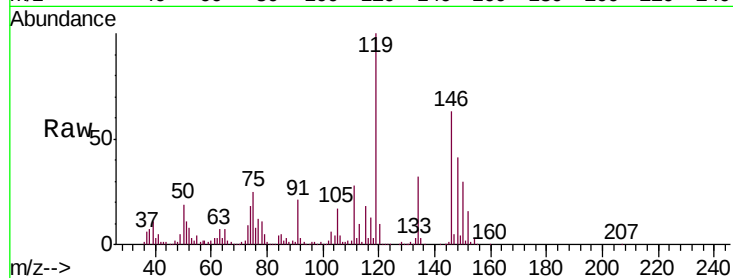
Tgt Ion:146 Resp: 209941

Ion Ratio Lower Upper

146 100

111 44.9 35.2 52.8

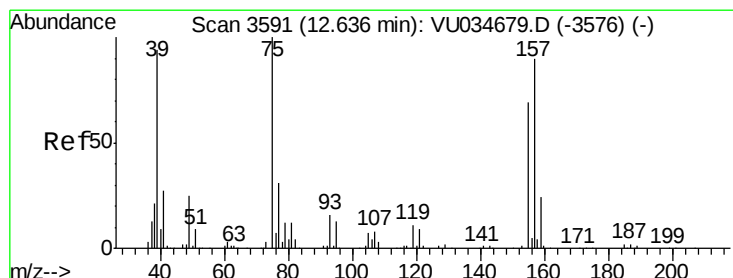
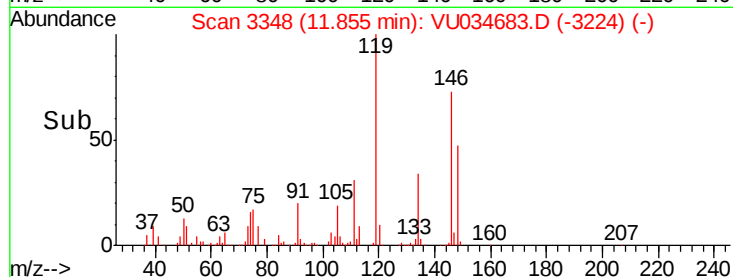
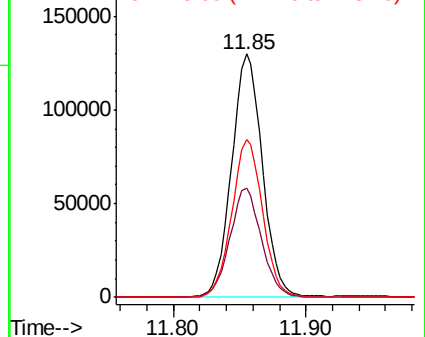
148 64.7 53.0 79.6



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: 1.611 ug/L

RT: 12.63 min Scan# 3588

Delta R.T. -0.01 min

Lab File: VU034683.D

Acq: 20 Sep 2019 13:01

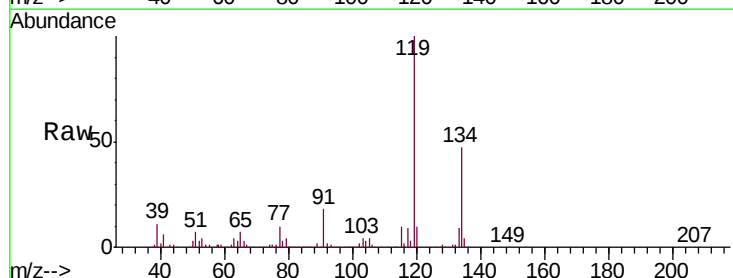
Tgt Ion: 75 Resp: 2700

Ion Ratio Lower Upper

75 100

155 0.0 54.7 82.1#

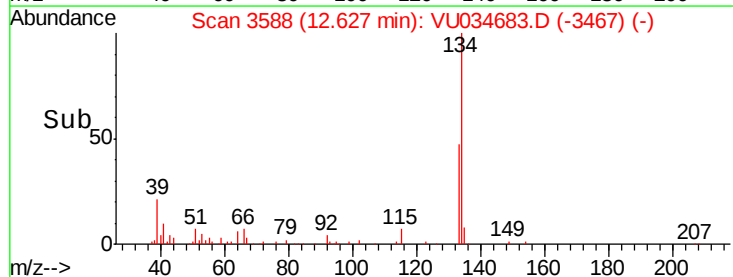
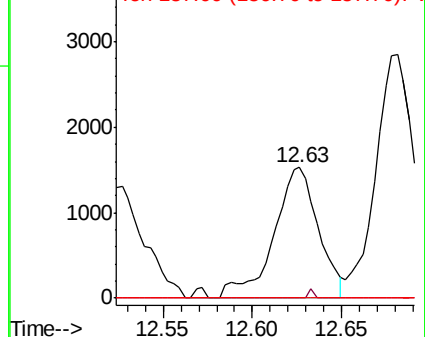
157 0.0 69.9 104.9#

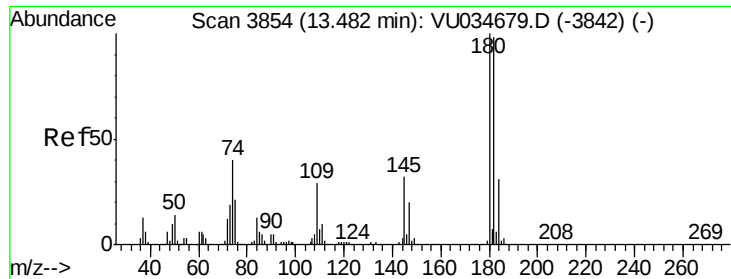


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

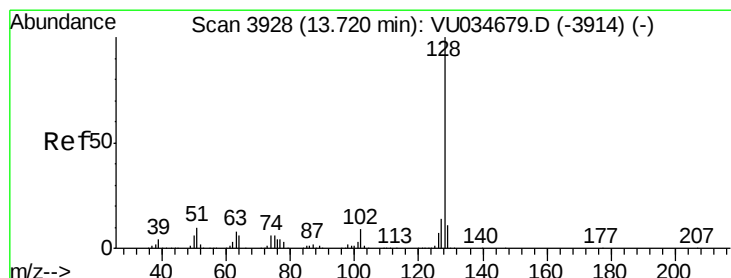
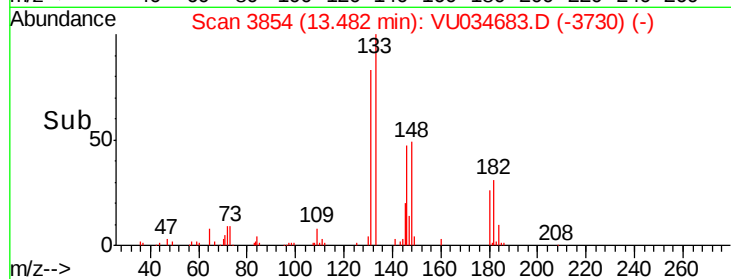
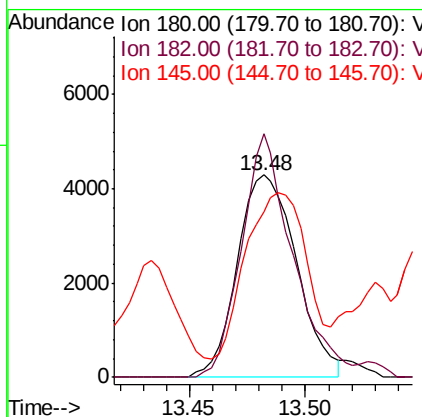
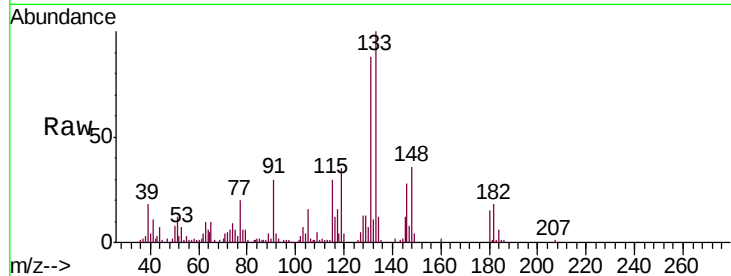




#68
 1,2,4-trichlorobenzene
 Concen: 1.855 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. 0.00 min
 Lab File: VU034683.D
 Acq: 20 Sep 2019 13:01

Instrument :
 MSVOA_U
 ClientSampleId :
 BPDF5

Tgt Ion:180 Resp: 7629
 Ion Ratio Lower Upper
 180 100
 182 104.0 75.7 113.5
 145 83.8 25.2 37.8#



#69
 Naphthalene
 Concen: 36.309 ug/L
 RT: 13.72 min Scan# 3928
 Delta R.T. 0.00 min
 Lab File: VU034683.D
 Acq: 20 Sep 2019 13:01

Tgt Ion:128 Resp: 516873
 Ion Ratio Lower Upper
 128 100
 127 13.5 10.8 16.2
 129 10.4 8.6 12.8

