

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120619\
 Data File : VU036021.D
 Acq On : 06 Dec 2019 14:00
 Operator : JC/SP
 Sample : K6132-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW4

Quant Time: Dec 06 23:33:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 06 22:30:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	298679	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	309569	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	127760	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	110618	3.25	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.00%
7) Chloroethane-d5	1.93	69	118803	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.00%
11) 1,1-Dichloroethene-d2	2.59	63	136109	2.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.60%#
20) 2-Butanone-d5	4.70	46	259343	43.01	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.02%
24) Chloroform-d	5.11	84	198678	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.00%
26) 1,2-Dichloroethane-d4	5.75	65	104640	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
32) Benzene-d6	5.77	84	383909	4.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.80%
36) 1,2-Dichloropropane-d6	6.73	67	121195	4.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.60%
41) Toluene-d8	7.93	98	313823	3.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.40%
43) trans-1,3-Dichloropropene-	8.21	79	43354	3.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.40%
46) 2-Hexanone-d5	8.68	63	200542	42.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.04%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	107004	4.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	125054	4.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	92150	2.583	ug/L #	57
8) Chloroethane	1.95	64	56152	2.538	ug/L	91
13) Acetone	2.69	43	62369	11.442	ug/L	99
15) Methyl Acetate	3.00	43	5107	0.523	ug/L #	80
16) Methylene chloride	3.08	84	16205	0.489	ug/L	79
18) trans-1,2-Dichloroethene	3.40	96	2056	0.091	ug/L	83
19) 1,1-Dichloroethane	3.92	63	221773	5.005	ug/L	99
21) 2-Butanone	4.78	43	97607	13.949	ug/L	92
22) cis-1,2-Dichloroethene	4.72	96	224133	9.360	ug/L	89
25) Chloroform	5.14	83	76411	1.709	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	94183	2.516	ug/L	98
33) Benzene	5.82	78	104017	1.068	ug/L	100
34) Trichloroethene	6.58	95	5399	0.219	ug/L	91
38) Bromodichloromethane	7.14	83	11086	0.351	ug/L	86
42) Toluene	8.00	91	39867	0.392	ug/L	97
51) Chlorobenzene	9.48	112	67996	1.071	ug/L	97
52) Ethylbenzene	9.60	91	11309	0.110	ug/L	91

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 06 22:30:31 2019
Response via : Initial Calibration

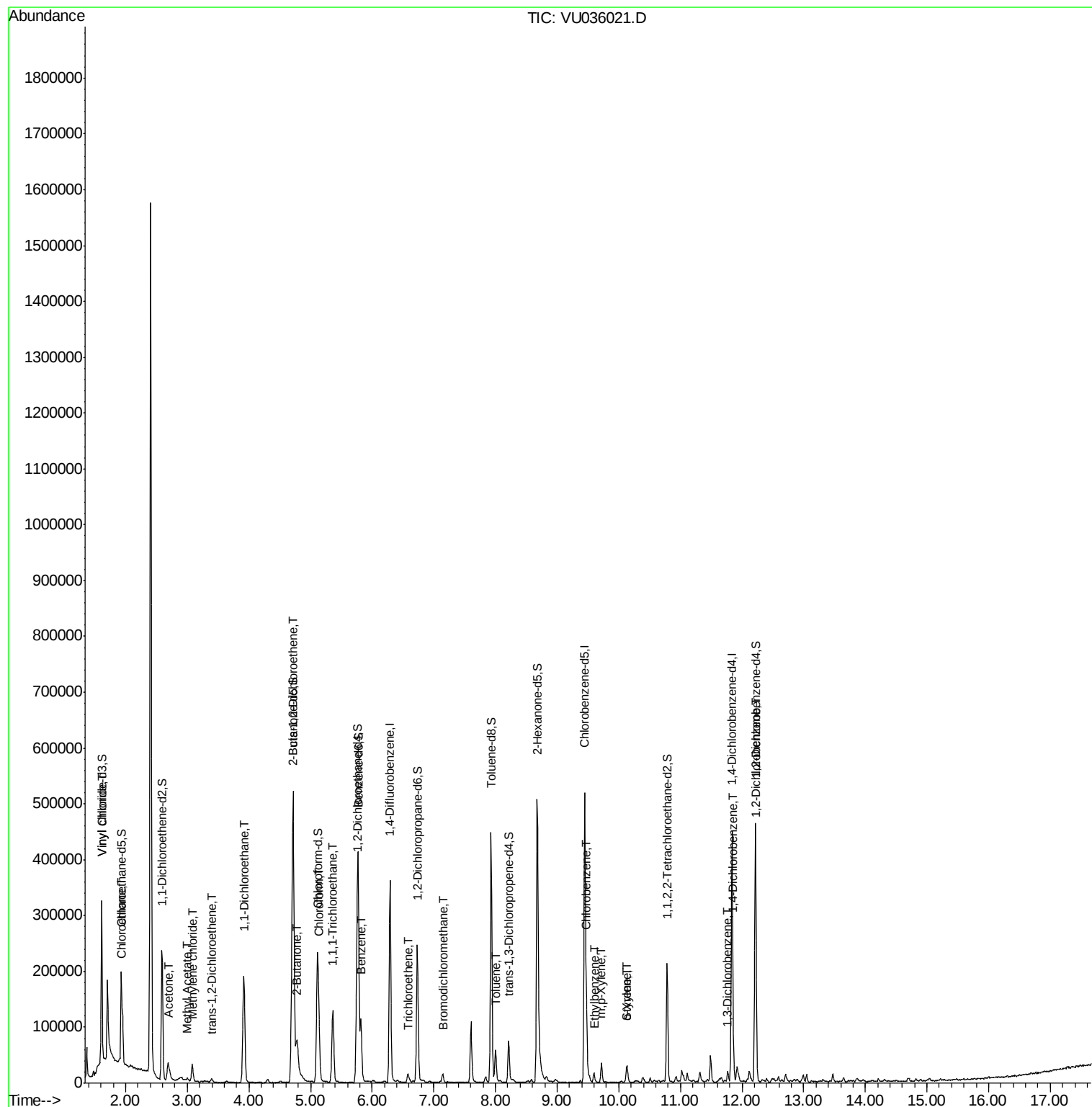
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.72	106	9532	0.246	ug/L	98
54) o-Xylene	10.13	106	6688	0.184	ug/L	91
55) Styrene	10.14	104	7387	0.121	ug/L	92
62) 1,3-Dichlorobenzene	11.77	146	3955	0.093	ug/L	93
63) 1,4-Dichlorobenzene	11.86	146	12546	0.297	ug/L	96
65) 1,2-Dichlorobenzene	12.23	146	11862	0.292	ug/L	86

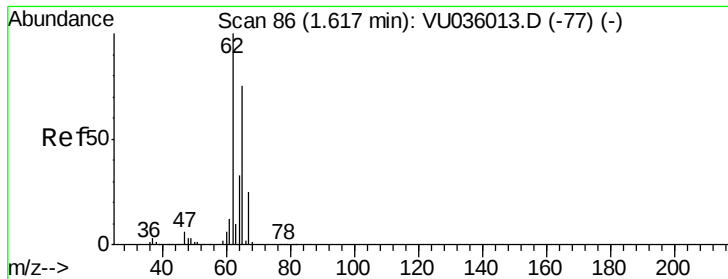
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU120619\
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QLast Update : Fri Dec 06 22:30:31 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.583 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

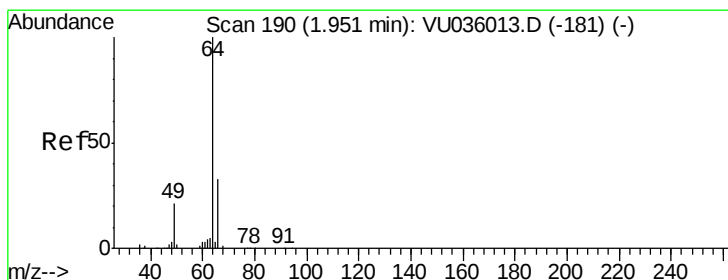
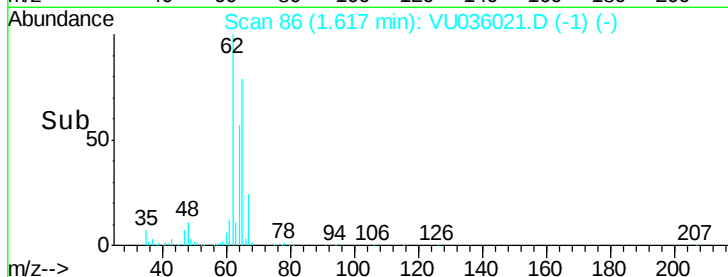
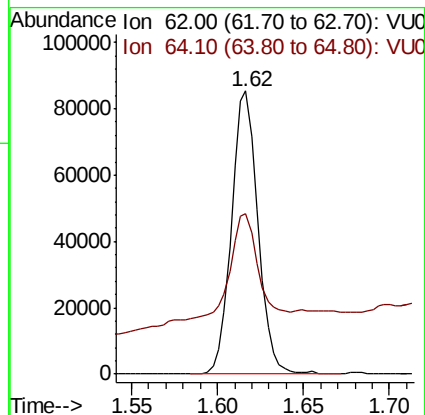
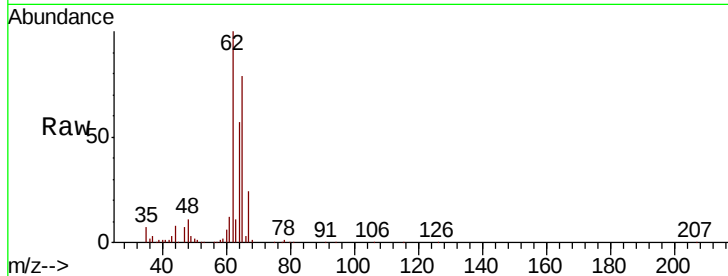
BFQW4

Tot Ion: 62 Resp: 92150

Ion Ratio Lower Upper

62 100

64 56.9 23.0 42.6#



#8

Chloroethane

Concen: 2.538 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036021.D

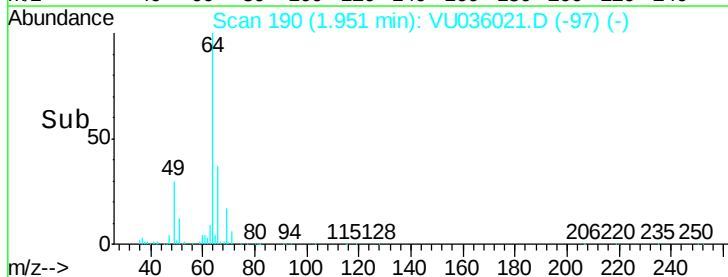
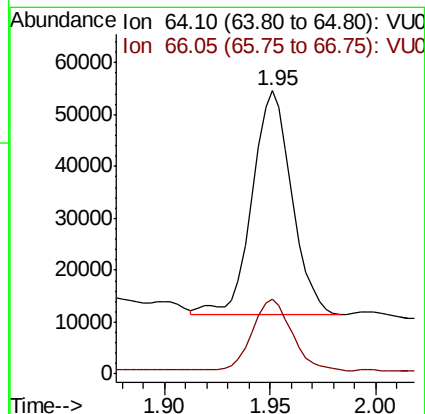
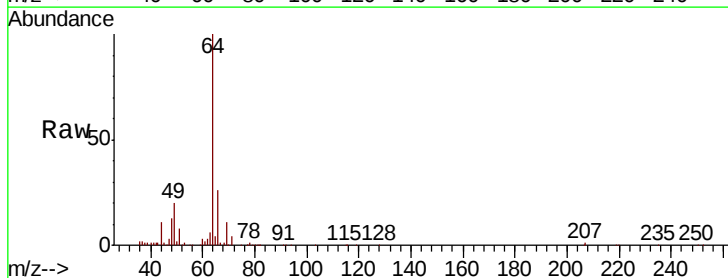
Acq: 06 Dec 2019 14:00

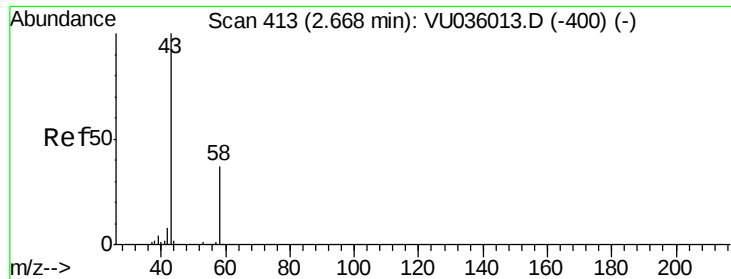
Tgt Ion: 64 Resp: 56152

Ion Ratio Lower Upper

64 100

66 26.4 22.0 40.8





#13

Acetone

Concen: 11.442 ug/L

RT: 2.69 min Scan# 420

Delta R.T. 0.02 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

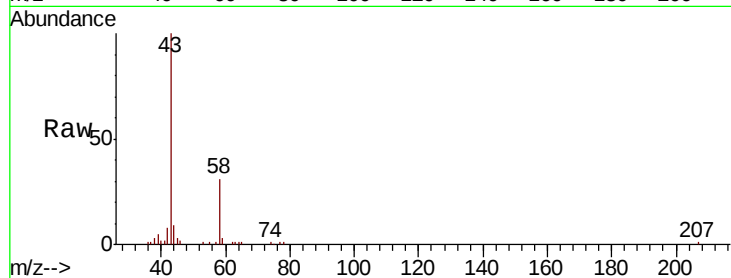
BFQW4

Tot Ion: 43 Resp: 62369

Ion Ratio Lower Upper

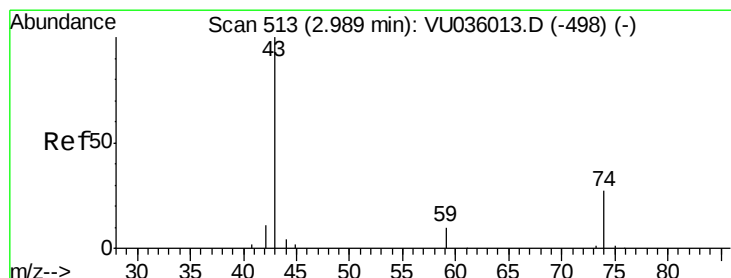
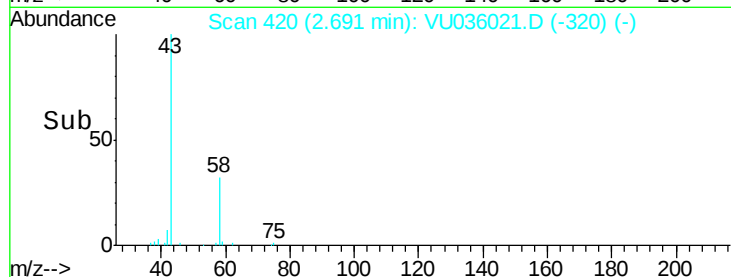
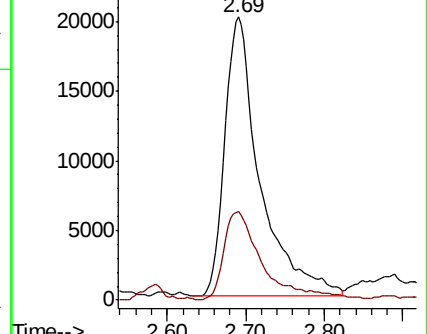
43 100

58 35.0 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU036021.D (-420) (-)

Ion 58.05 (57.75 to 58.75): VU036021.D (-420) (-)



#15

Methyl Acetate

Concen: 0.523 ug/L

RT: 3.00 min Scan# 517

Delta R.T. 0.01 min

Lab File: VU036021.D

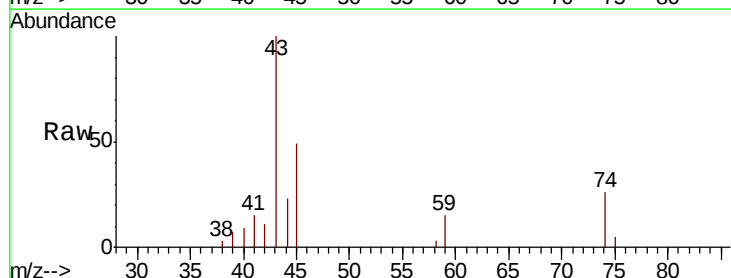
Acq: 06 Dec 2019 14:00

Tgt Ion: 43 Resp: 5107

Ion Ratio Lower Upper

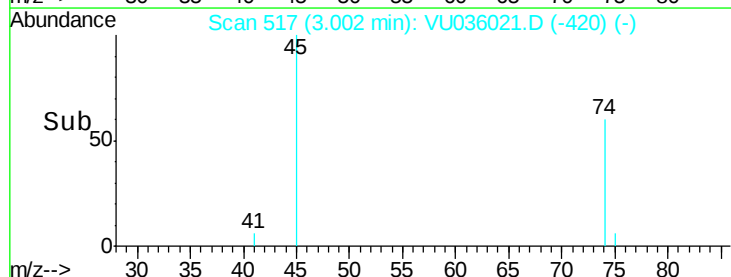
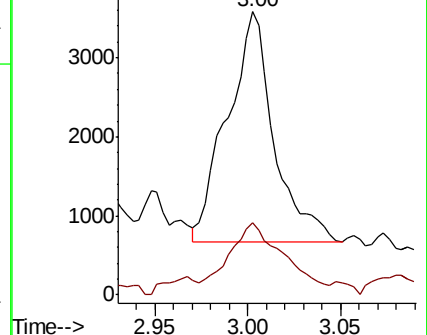
43 100

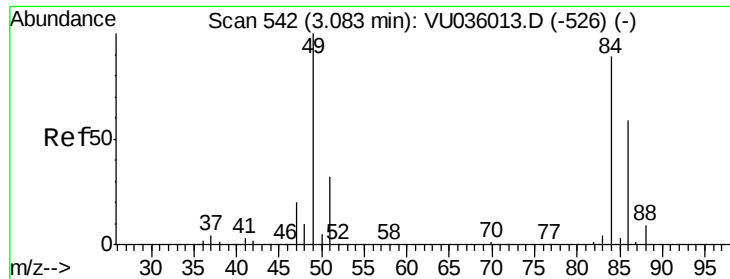
74 35.2 20.0 30.0#



Abundance Ion 43.05 (42.75 to 43.75): VU036021.D (-420) (-)

Ion 74.05 (73.75 to 74.75): VU036021.D (-420) (-)

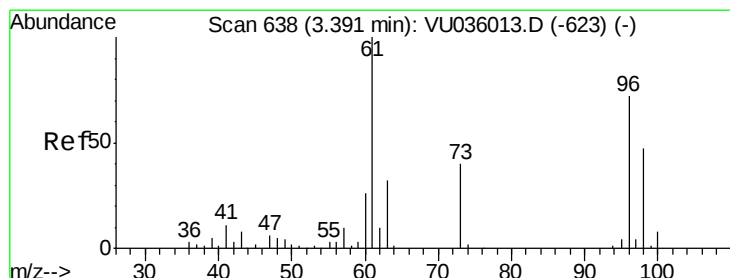
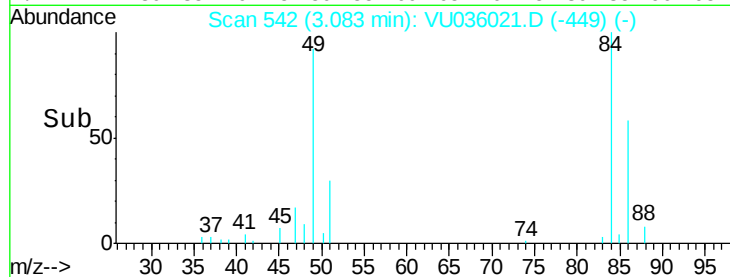
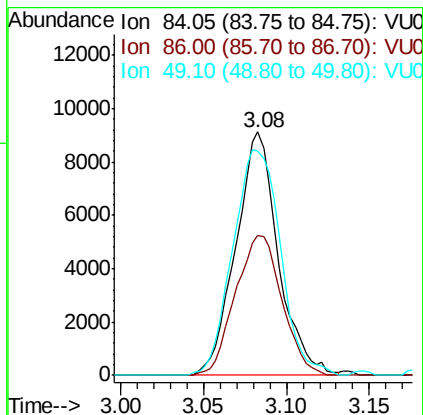
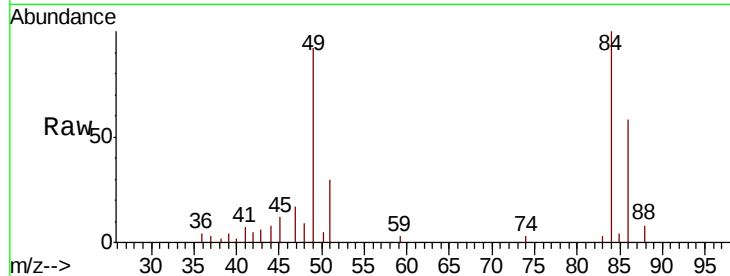




#16
Methylene chloride
Concen: 0.489 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036021.D
Acq: 06 Dec 2019 14:00

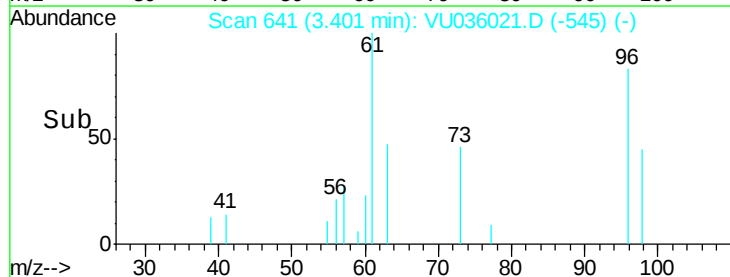
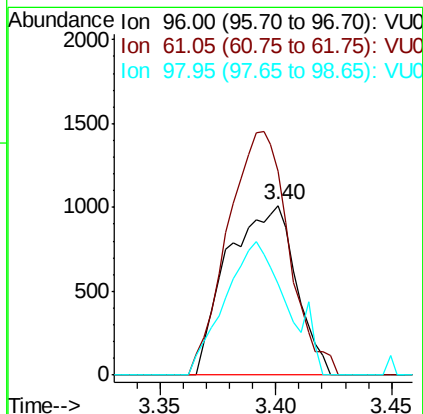
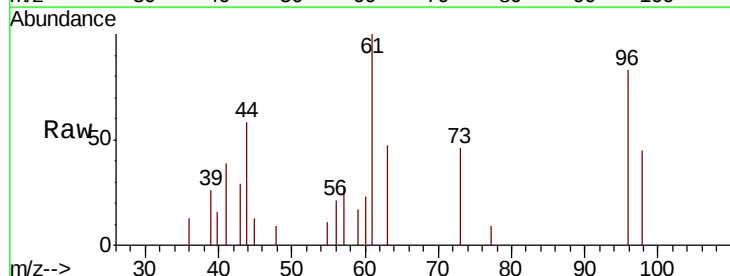
Instrument :
MSVOA_U
ClientSampleId :
BFQW4

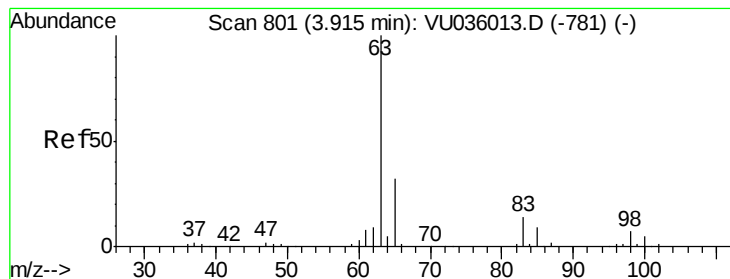
Tot Ion: 84 Resp: 16205
Ion Ratio Lower Upper
84 100
86 57.7 44.7 82.9
49 92.1 86.2 160.2



#18
trans-1,2-Dichloroethene
Concen: 0.091 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.01 min
Lab File: VU036021.D
Acq: 06 Dec 2019 14:00

Tgt Ion: 96 Resp: 2056
Ion Ratio Lower Upper
96 100
61 120.6 101.2 187.8
98 54.2 45.0 83.6





#19

1,1-Dichloroethane

Concen: 5.005 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

BFQW4

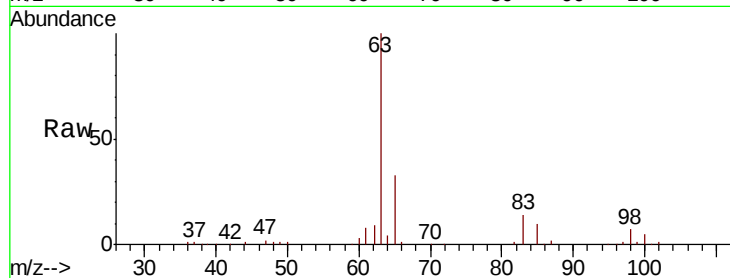
Tot Ion: 63 Resp: 221773

Ion Ratio Lower Upper

63 100

65 32.7 22.4 41.6

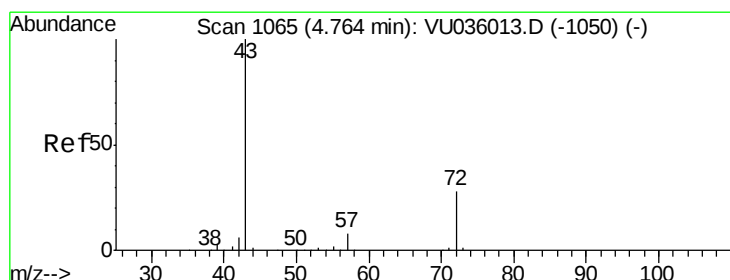
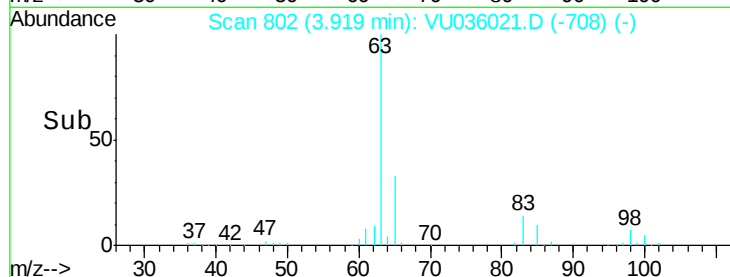
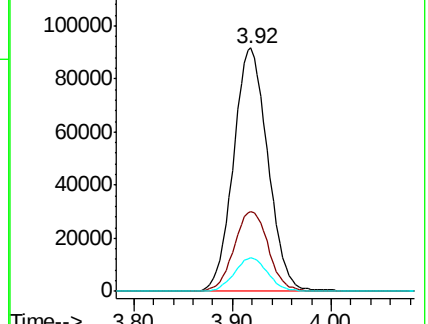
83 13.6 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU036021.D (-781) (-)

Ion 65.10 (64.80 to 65.80): VU036021.D (-781) (-)

Ion 83.05 (82.75 to 83.75): VU036021.D (-781) (-)



#21

2-Butanone

Concen: 13.949 ug/L

RT: 4.78 min Scan# 1070

Delta R.T. 0.02 min

Lab File: VU036021.D

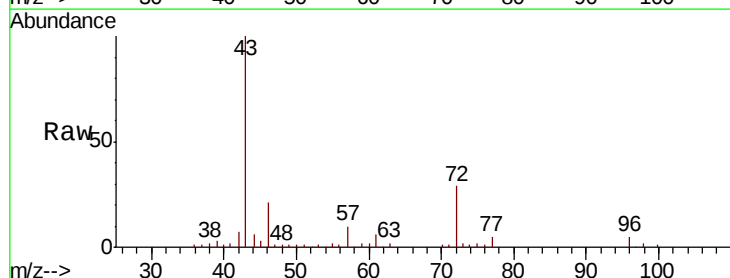
Acq: 06 Dec 2019 14:00

Tgt Ion: 43 Resp: 97607

Ion Ratio Lower Upper

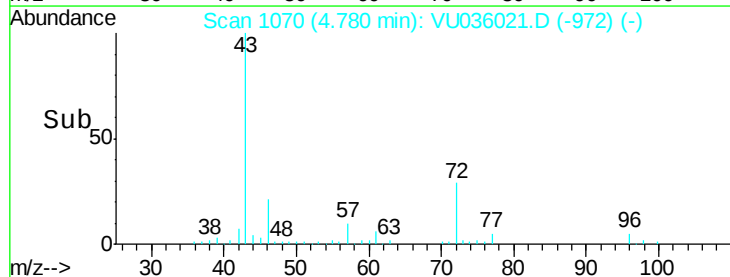
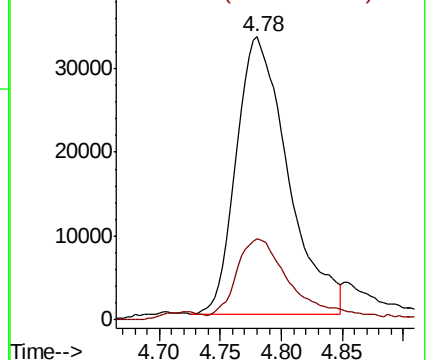
43 100

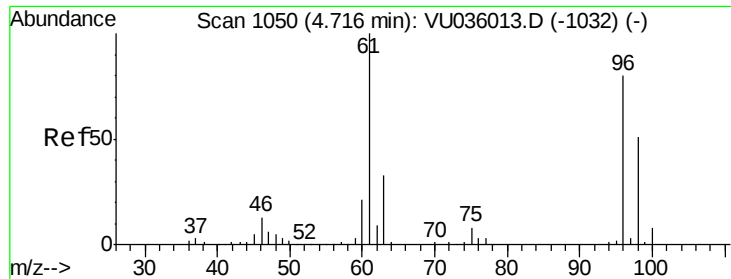
72 29.1 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU036021.D (-972) (-)

Ion 72.10 (71.80 to 72.80): VU036021.D (-972) (-)





#22

cis-1,2-Dichloroethene

Concen: 9.360 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

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ClientSampleId :

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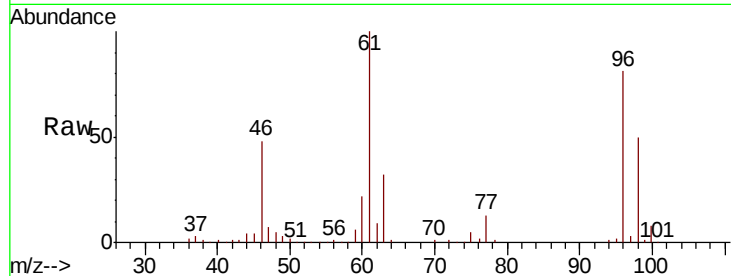
Tot Ion: 96 Resp: 224133

Ion Ratio Lower Upper

96 100

61 123.8 95.7 177.7

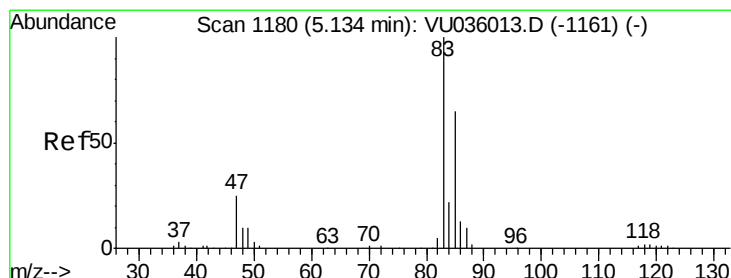
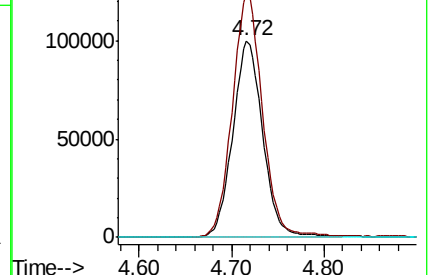
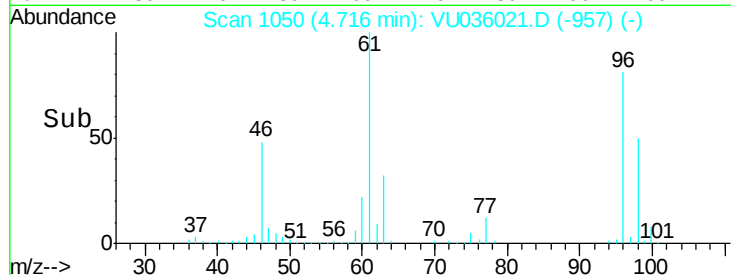
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036021.D (-1087) (-)

Ion 61.05 (60.75 to 61.75): VU036021.D (-1087) (-)

Ion 68.15 (67.85 to 68.85): VU036021.D (-1087) (-)



#25

Chloroform

Concen: 1.709 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036021.D

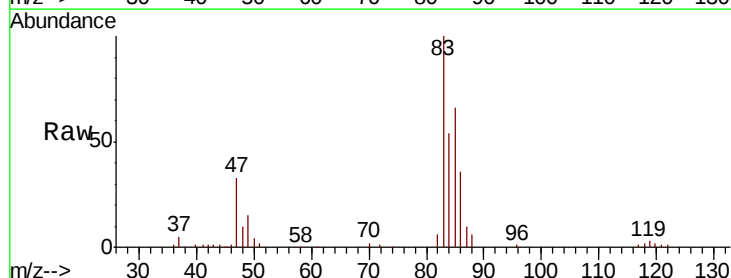
Acq: 06 Dec 2019 14:00

Tgt Ion: 83 Resp: 76411

Ion Ratio Lower Upper

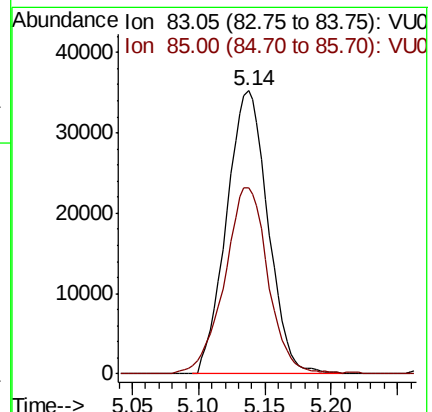
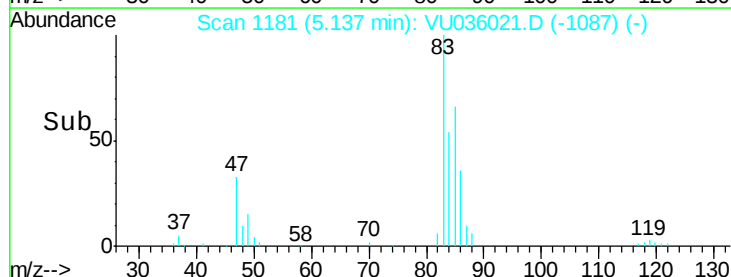
83 100

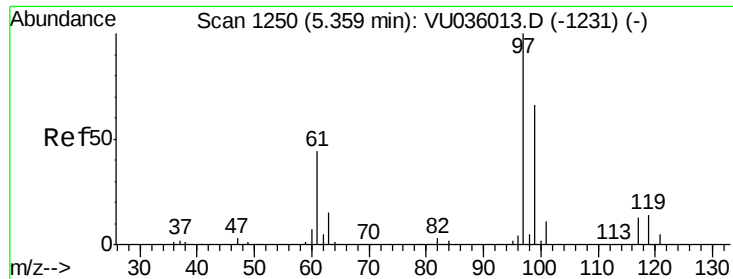
85 65.9 45.4 84.2



Abundance Ion 83.05 (82.75 to 83.75): VU036021.D (-1087) (-)

Ion 85.00 (84.70 to 85.70): VU036021.D (-1087) (-)

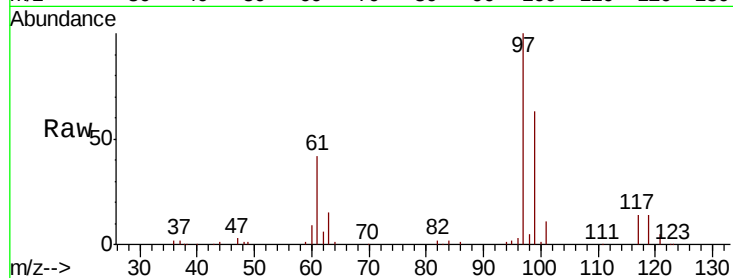




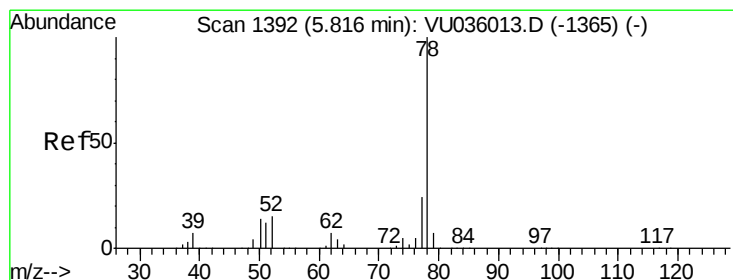
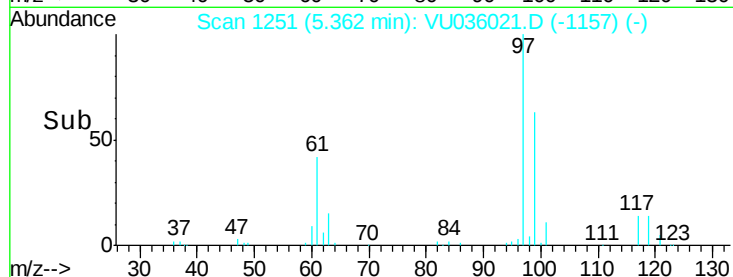
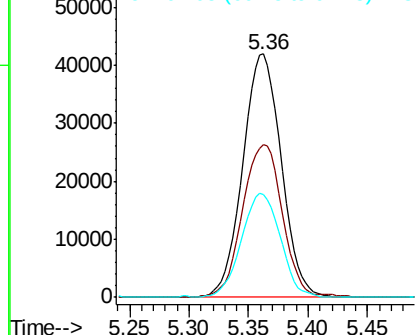
#29
 1,1,1-Trichloroethane
 Concen: 2.516 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036021.D
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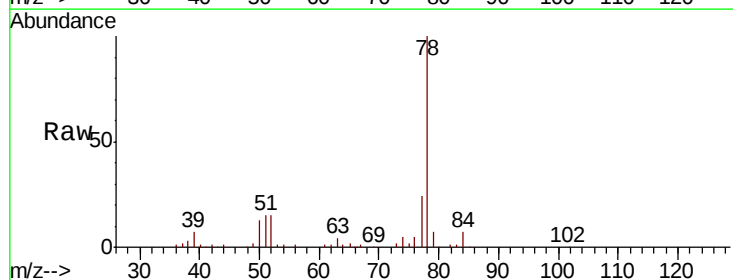
Tot Ion: 97 Resp: 94183
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.8 77.8
 61 43.3 37.6 56.4



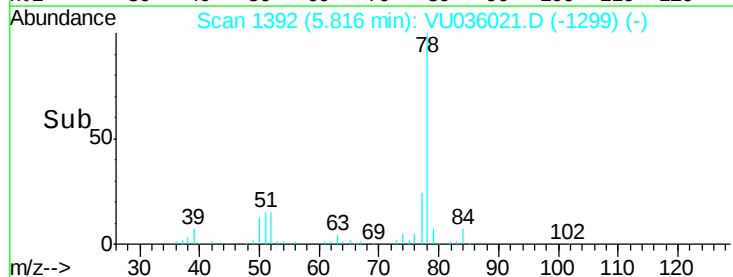
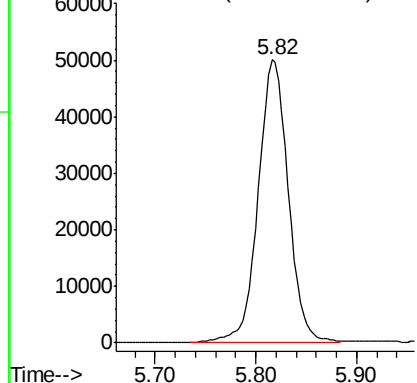
Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

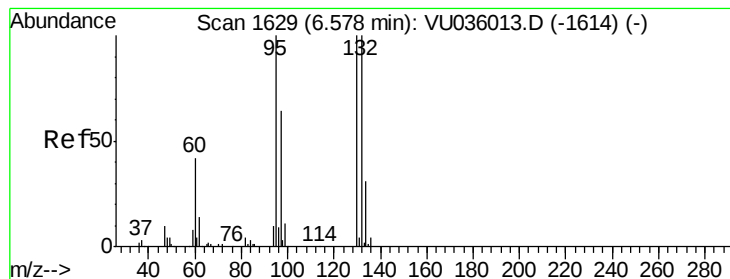


#33
 Benzene
 Concen: 1.068 ug/L
 RT: 5.82 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VU036021.D
 Acq: 06 Dec 2019 14:00
 Tgt Ion: 78 Resp: 104017



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.219 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

BFQW4

Tot Ion: 95 Resp: 5399

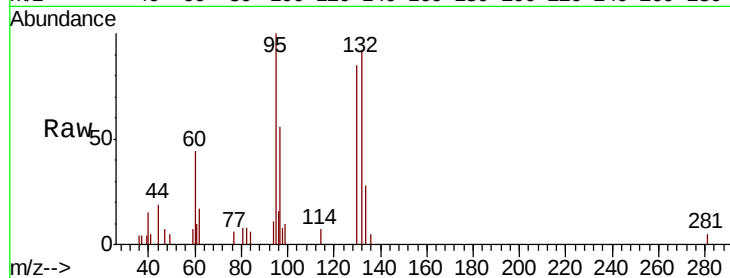
Ion Ratio Lower Upper

95 100

97 56.3 46.3 85.9

132 91.7 65.7 122.1

130 84.8 69.2 128.6

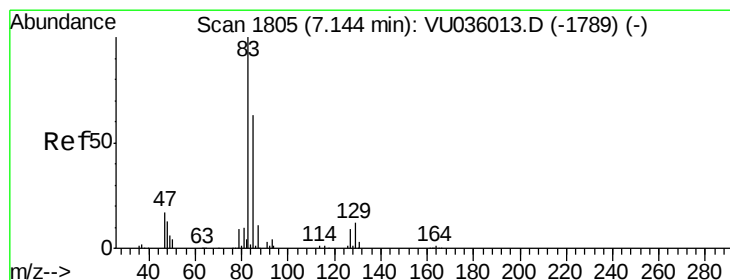
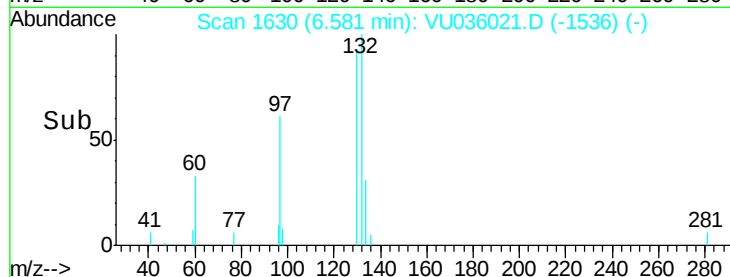
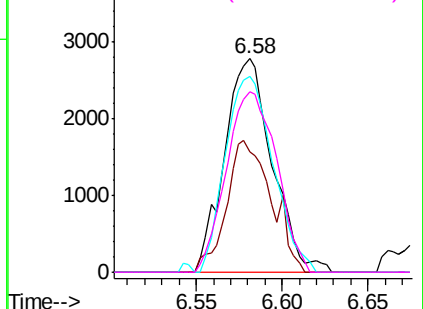


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#38

Bromodichloromethane

Concen: 0.351 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

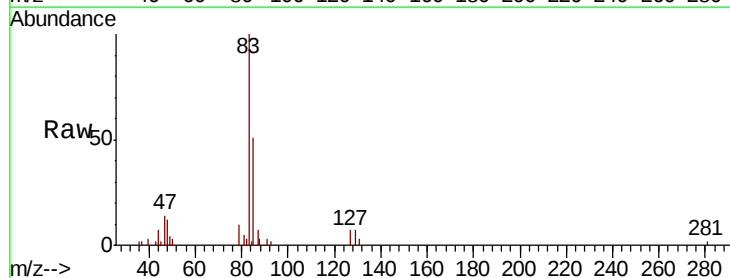
Tgt Ion: 83 Resp: 11086

Ion Ratio Lower Upper

83 100

85 51.1 44.0 81.8

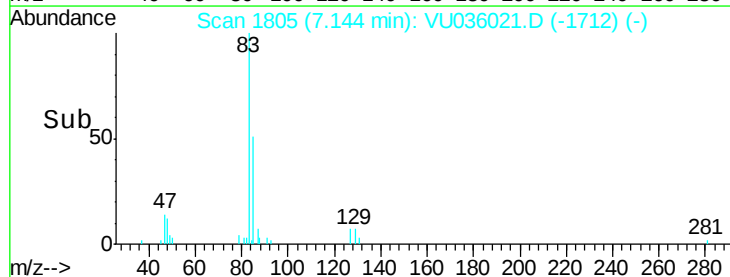
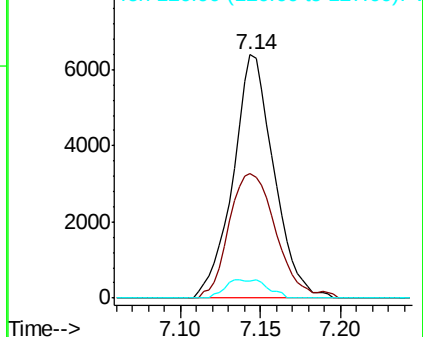
127 7.0 6.5 9.7

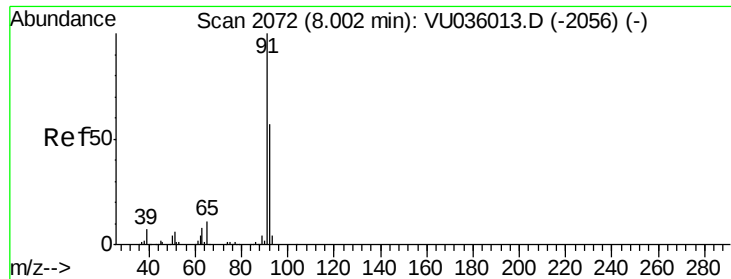


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V





#42

Toluene

Concen: 0.392 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

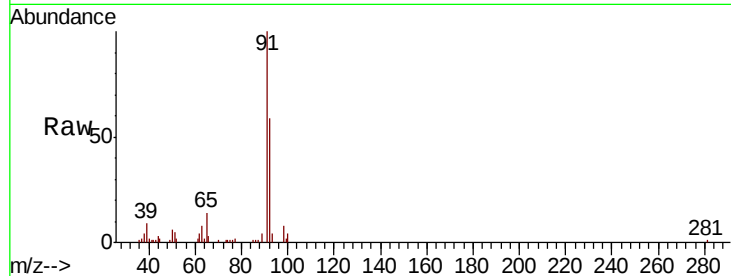
BFQW4

Tot Ion: 91 Resp: 39867

Ion Ratio Lower Upper

91 100

92 58.7 39.8 74.0



Abundance Ion 91.15 (90.85 to 91.85): VU036021.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU036021.D (-1979) (-)

8.00

25000

20000

15000

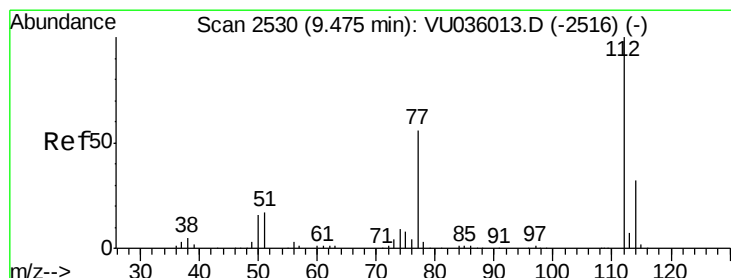
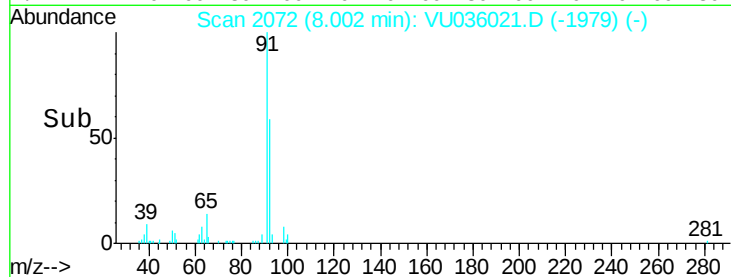
10000

5000

0

Time-->

7.95 8.00 8.05 8.10



#51

Chlorobenzene

Concen: 1.071 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

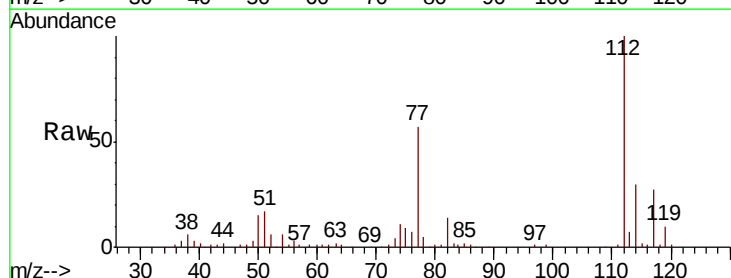
Tgt Ion: 112 Resp: 67996

Ion Ratio Lower Upper

112 100

114 30.2 22.5 41.7

77 57.0 47.7 71.5



Abundance Ion 112.10 (111.80 to 112.80): VU036021.D (-2437) (-)

Ion 114.05 (113.75 to 114.75): VU036021.D (-2437) (-)

Ion 77.10 (76.80 to 77.80): VU036021.D (-2437) (-)

9.48

50000

40000

30000

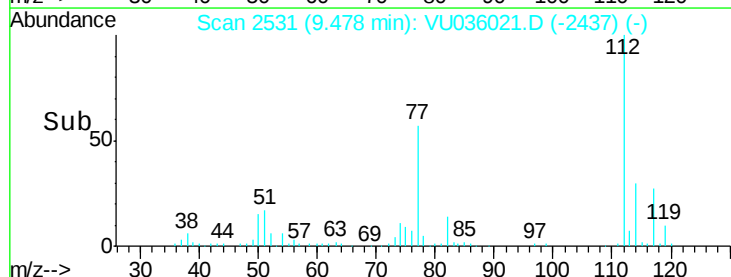
20000

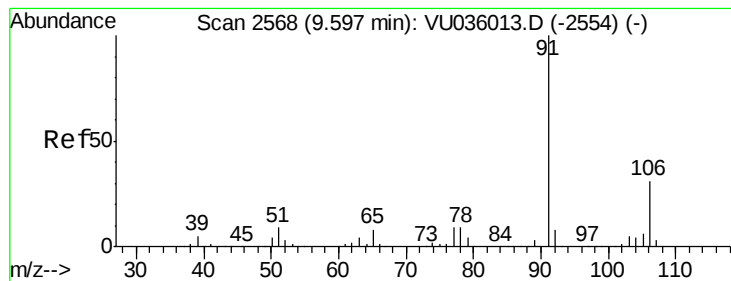
10000

0

Time-->

9.40 9.45 9.50 9.55





#52

Ethylbenzene

Concen: 0.110 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

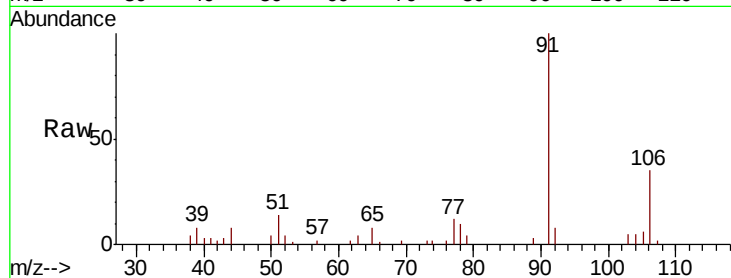
BFQW4

Tot Ion: 91 Resp: 11309

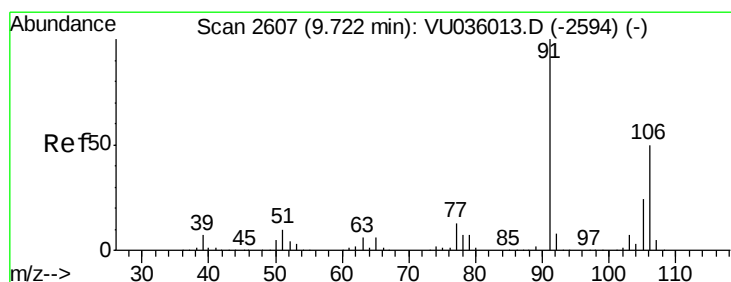
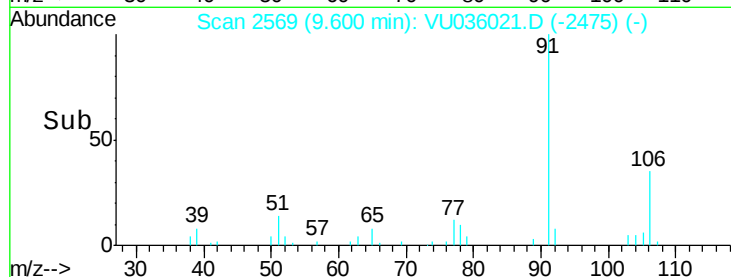
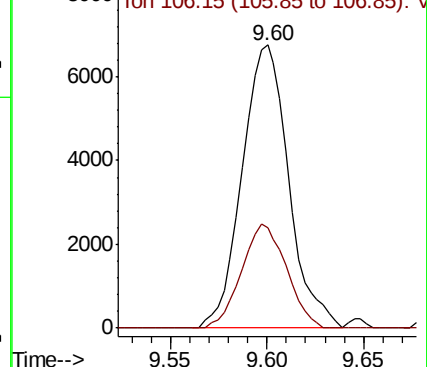
Ion Ratio Lower Upper

91 100

106 35.3 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU036021.D (-2554) (-)



#53

m,p-Xylene

Concen: 0.246 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036021.D

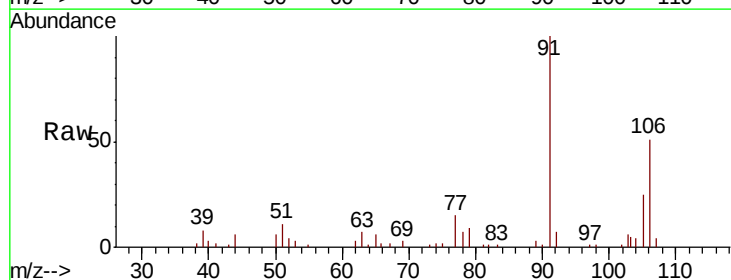
Acq: 06 Dec 2019 14:00

Tgt Ion: 106 Resp: 9532

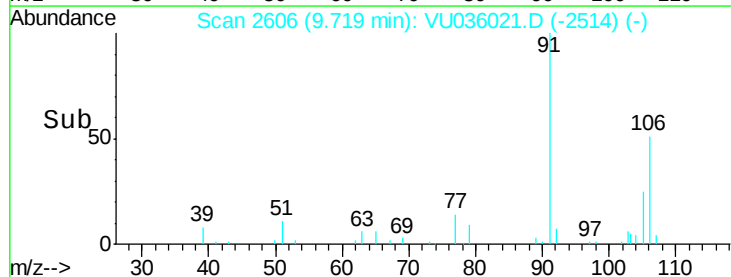
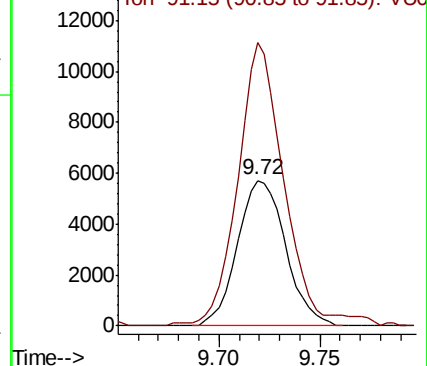
Ion Ratio Lower Upper

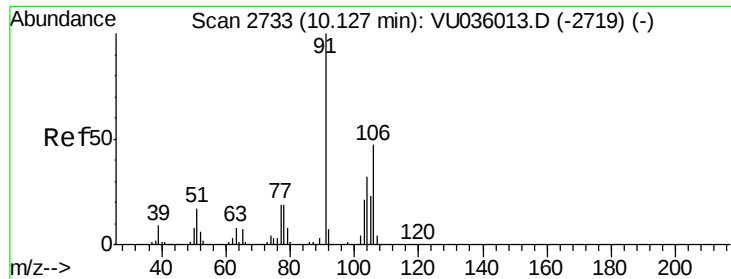
106 100

91 194.9 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU036021.D (-2594) (-)

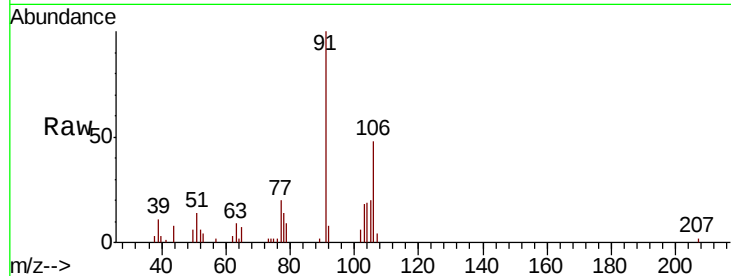




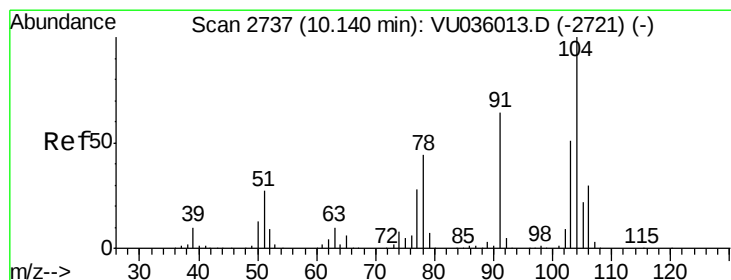
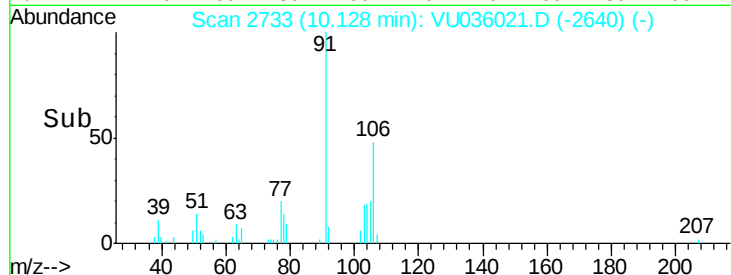
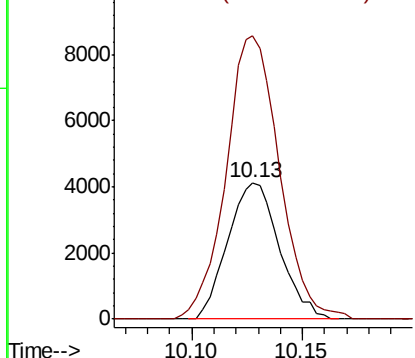
#54
o-Xylene
Concen: 0.184 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036021.D
Acq: 06 Dec 2019 14:00

Instrument :
MSVOA_U
ClientSampleId :
BFQW4

Tot Ion:106 Resp: 6688
Ion Ratio Lower Upper
106 100
91 207.6 155.3 288.3

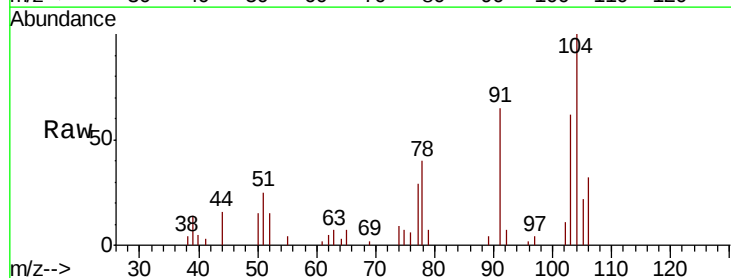


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

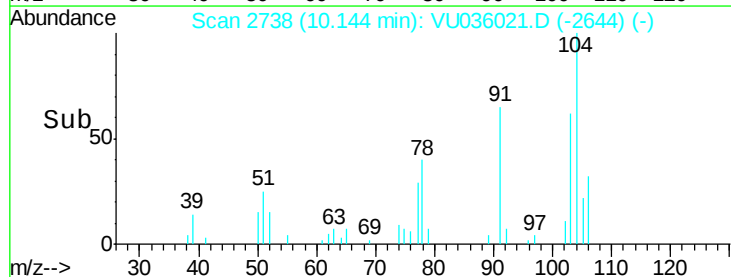
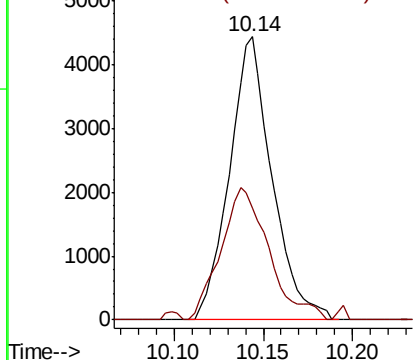


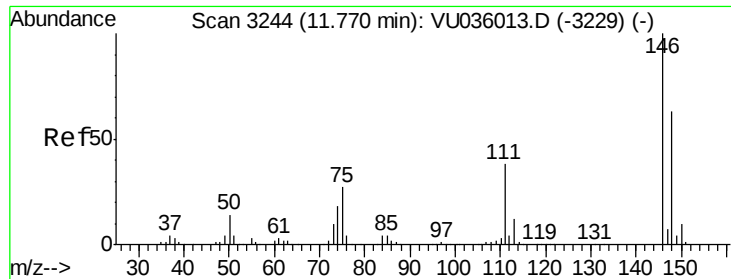
#55
Styrene
Concen: 0.121 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU036021.D
Acq: 06 Dec 2019 14:00

Tgt Ion:104 Resp: 7387
Ion Ratio Lower Upper
104 100
78 39.6 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

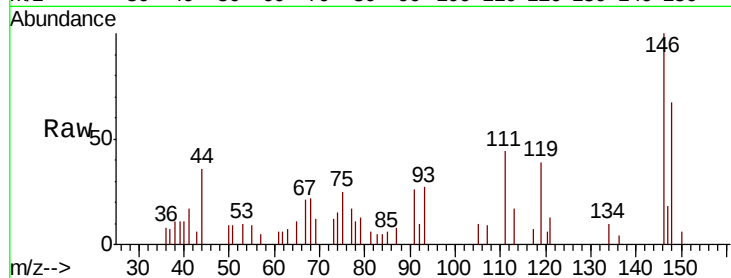




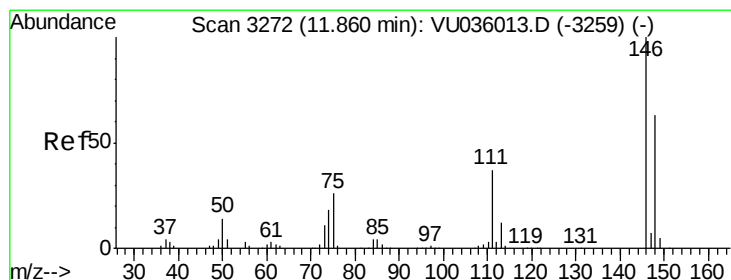
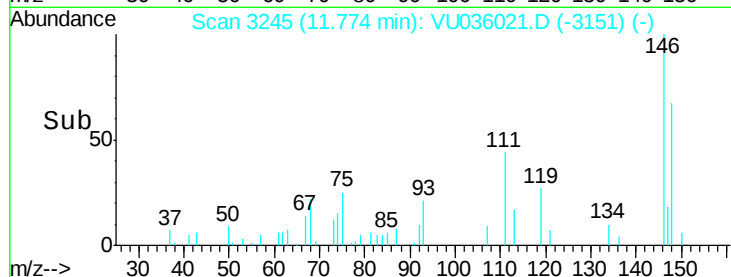
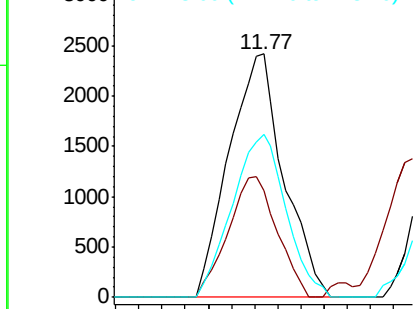
#62
 1,3-Dichlorobenzene
 Concen: 0.093 ug/L
 RT: 11.77 min Scan# 3245
 Delta R.T. 0.00 min
 Lab File: VU036021.D
 Acq: 06 Dec 2019 14:00

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW4

Tot Ion:146 Resp: 3955
 Ion Ratio Lower Upper
 146 100
 111 43.7 27.6 51.4
 148 67.0 43.4 80.6

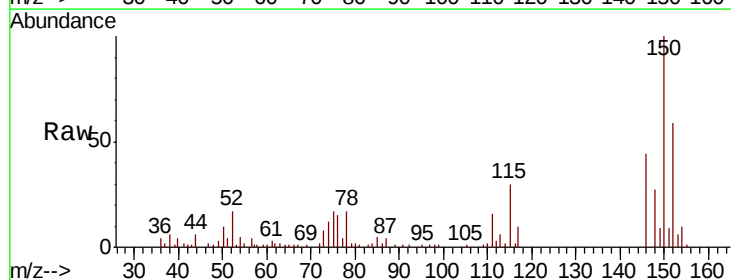


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

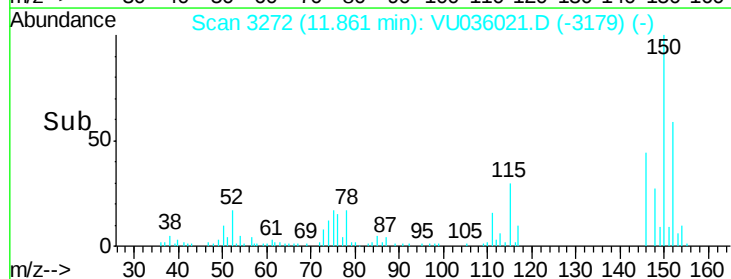
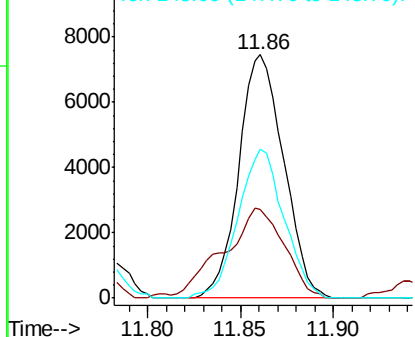


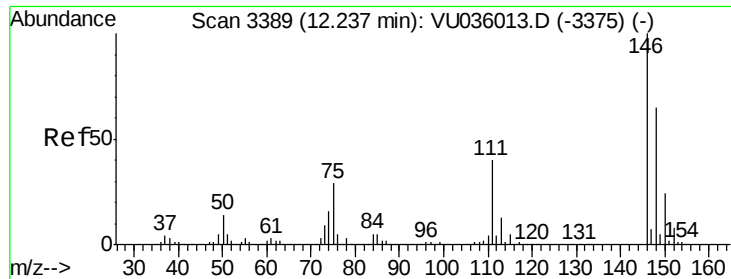
#63
 1,4-Dichlorobenzene
 Concen: 0.297 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036021.D
 Acq: 06 Dec 2019 14:00

Tgt Ion:146 Resp: 12546
 Ion Ratio Lower Upper
 146 100
 111 36.5 28.5 52.9
 148 61.3 44.4 82.5



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.292 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036021.D

Acq: 06 Dec 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

BFQW4

Tot Ion:146 Resp: 11862

Ion Ratio Lower Upper

146 100

111 48.7 32.6 48.8

148 75.1 50.9 76.3

