

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120619\
 Data File : VU036020.D
 Acq On : 06 Dec 2019 13:36
 Operator : JC/SP
 Sample : K6132-21
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW3

Quant Time: Dec 06 23:26:31 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	280878	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	293163	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	124541	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	113613	3.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.00%
7) Chloroethane-d5	1.93	69	115338	4.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.80%
11) 1,1-Dichloroethene-d2	2.59	63	137680	2.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.80%#
20) 2-Butanone-d5	4.70	46	264478	46.65	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.30%
24) Chloroform-d	5.11	84	203050	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
26) 1,2-Dichloroethane-d4	5.75	65	105509	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
32) Benzene-d6	5.77	84	382594	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.20%
36) 1,2-Dichloropropane-d6	6.73	67	123385	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.80%
41) Toluene-d8	7.93	98	309273	3.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.40%
43) trans-1,3-Dichloropropene-	8.21	79	43857	3.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.20%
46) 2-Hexanone-d5	8.68	63	204201	45.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.44%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	106615	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	127913	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	112583	3.356	ug/L #	55
8) Chloroethane	1.95	64	62048	2.982	ug/L	91
13) Acetone	2.69	43	47733	9.312	ug/L	98
15) Methyl Acetate	3.00	43	4712	0.513	ug/L #	85
16) Methylene chloride	3.08	84	16198	0.519	ug/L	94
18) trans-1,2-Dichloroethene	3.39	96	1920	0.090	ug/L	93
19) 1,1-Dichloroethane	3.92	63	264090	6.338	ug/L	99
21) 2-Butanone	4.79	43	110502	16.792	ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	271292	12.047	ug/L	88
25) Chloroform	5.14	83	75325	1.792	ug/L	96
29) 1,1,1-Trichloroethane	5.36	97	115408	3.255	ug/L	96
33) Benzene	5.82	78	121593	1.319	ug/L	100
34) Trichloroethene	6.58	95	5744	0.246	ug/L	99
38) Bromodichloromethane	7.15	83	10402	0.348	ug/L	97
42) Toluene	8.00	91	47684	0.495	ug/L	100
51) Chlorobenzene	9.48	112	72104	1.199	ug/L	100
52) Ethylbenzene	9.60	91	12194	0.125	ug/L	95

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

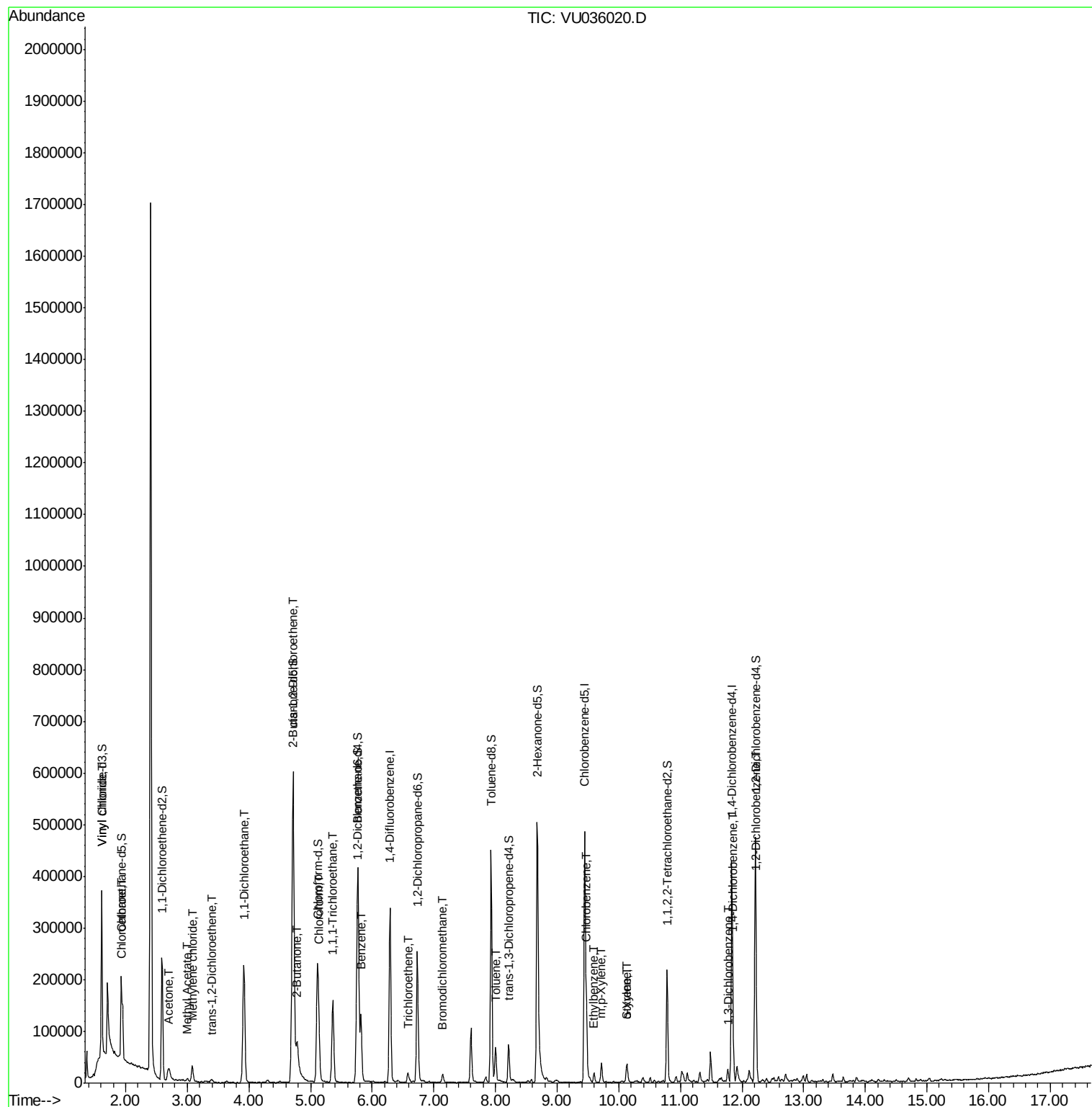
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.72	106	10641	0.290	ug/L	86
54) o-Xylene	10.13	106	7835	0.227	ug/L	84
55) Styrene	10.14	104	8805	0.152	ug/L	94
62) 1,3-Dichlorobenzene	11.77	146	4511	0.109	ug/L	94
63) 1,4-Dichlorobenzene	11.86	146	13943	0.339	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	13761	0.348	ug/L	99

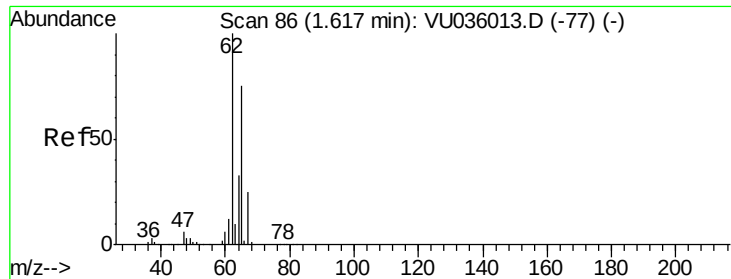
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU120619\
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.356 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

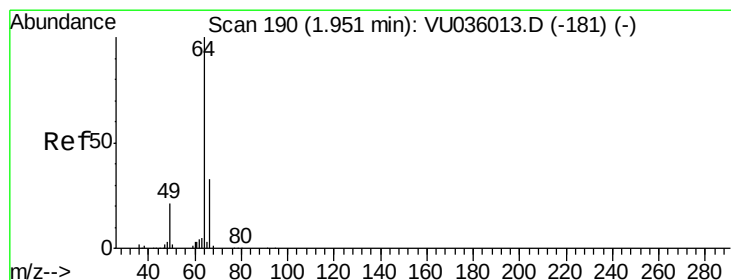
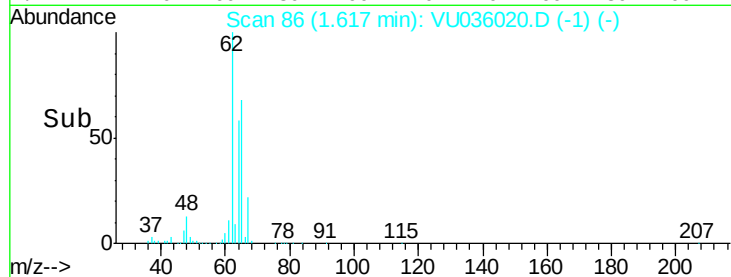
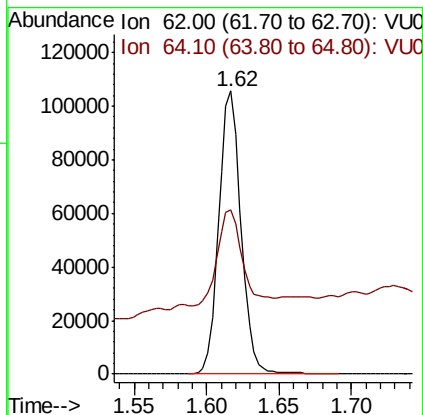
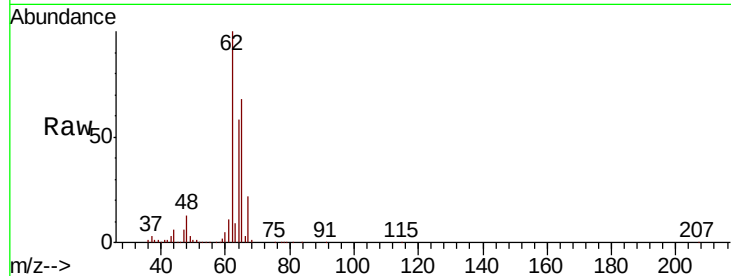
BFQW3

Tot Ion: 62 Resp: 112583

Ion Ratio Lower Upper

62 100

64 58.0 23.0 42.6#



#8

Chloroethane

Concen: 2.982 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036020.D

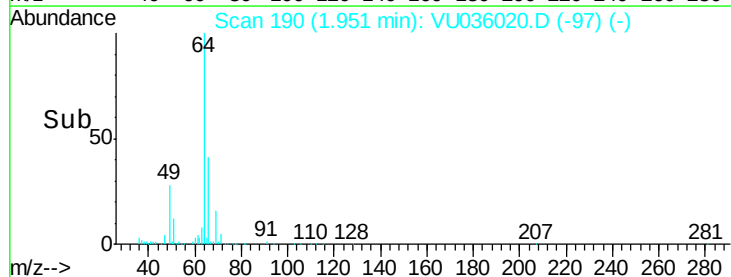
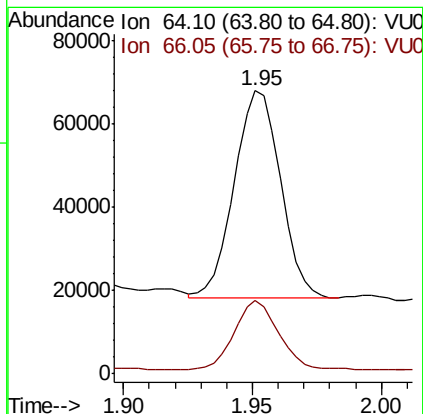
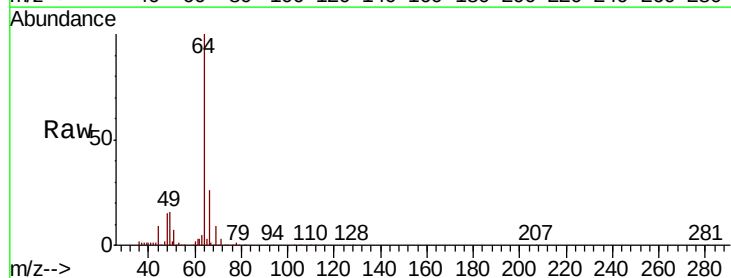
Acq: 06 Dec 2019 13:36

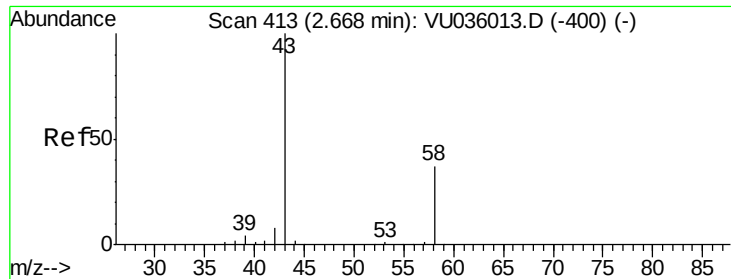
Tgt Ion: 64 Resp: 62048

Ion Ratio Lower Upper

64 100

66 26.2 22.0 40.8





#13

Acetone

Concen: 9.312 ug/L

RT: 2.69 min Scan# 421

Delta R.T. 0.03 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

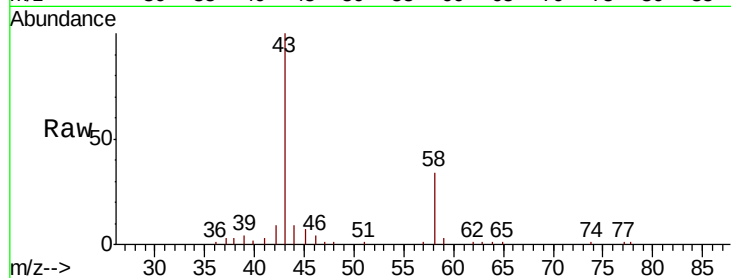
BFQW3

Tot Ion: 43 Resp: 47733

Ion Ratio Lower Upper

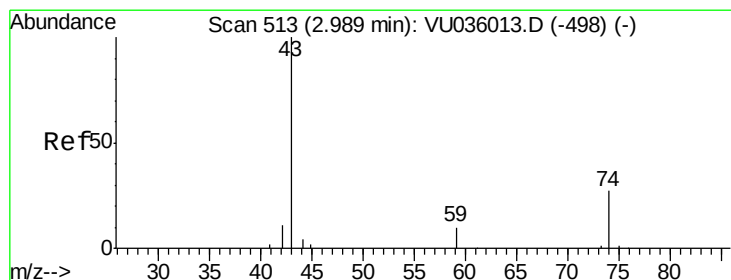
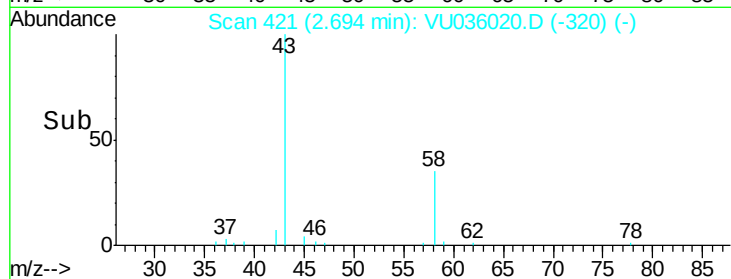
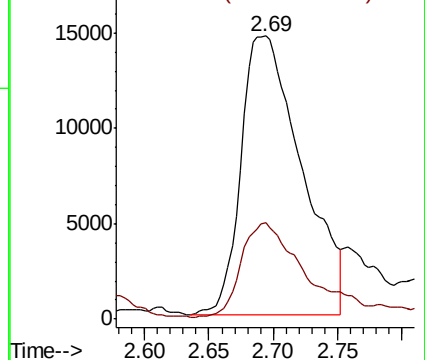
43 100

58 35.4 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#15

Methyl Acetate

Concen: 0.513 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU036020.D

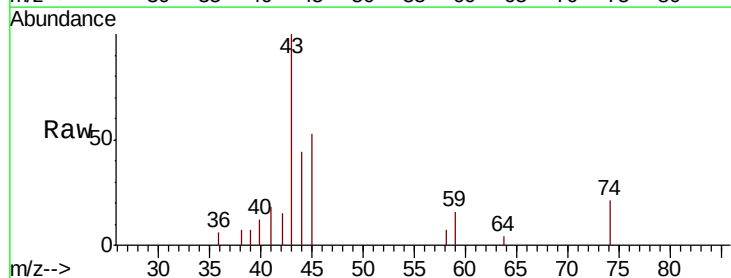
Acq: 06 Dec 2019 13:36

Tgt Ion: 43 Resp: 4712

Ion Ratio Lower Upper

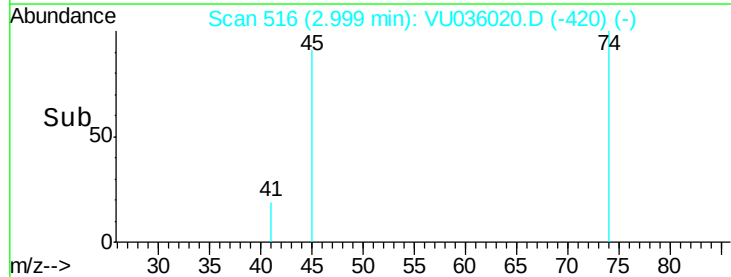
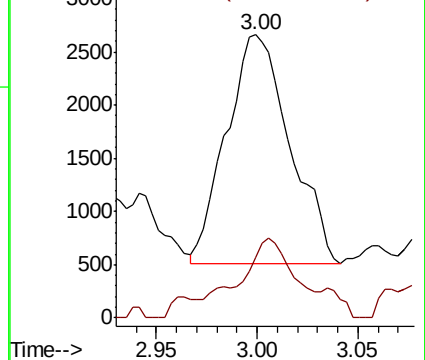
43 100

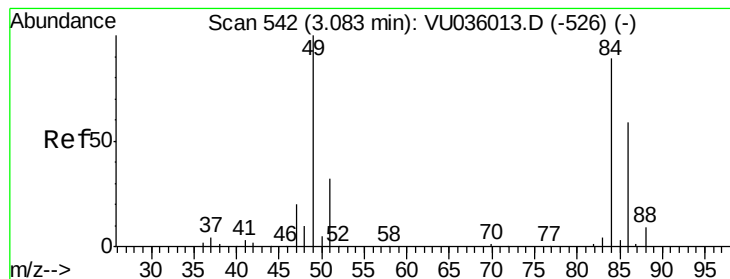
74 17.7 20.0 30.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0





#16

Methylene chloride

Concen: 0.519 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

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ClientSampleId :

BFQW3

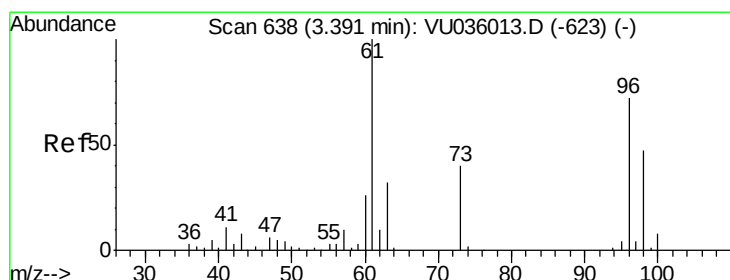
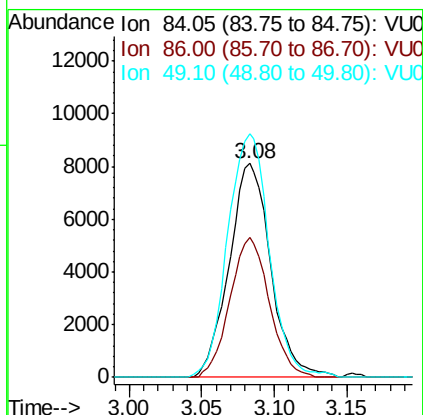
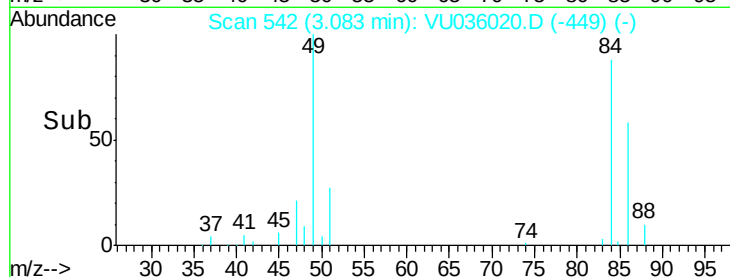
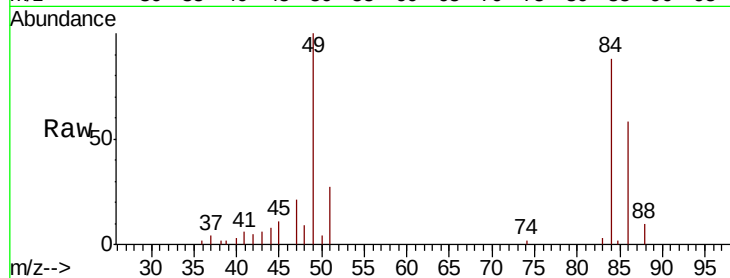
Tot Ion: 84 Resp: 16198

Ion Ratio Lower Upper

84 100

86 65.4 44.7 82.9

49 113.8 86.2 160.2



#18

trans-1,2-Dichloroethene

Concen: 0.090 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

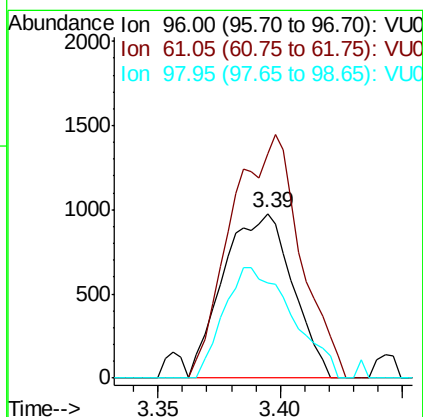
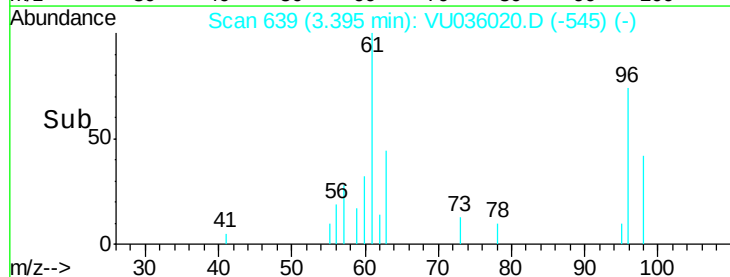
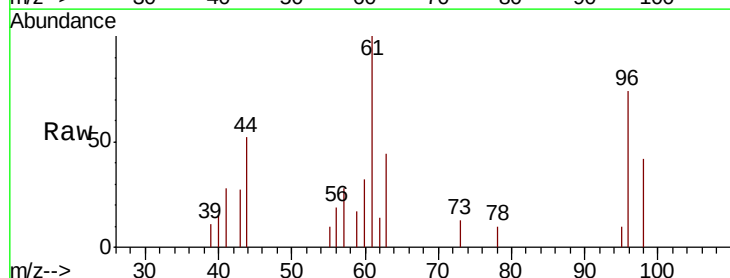
Tgt Ion: 96 Resp: 1920

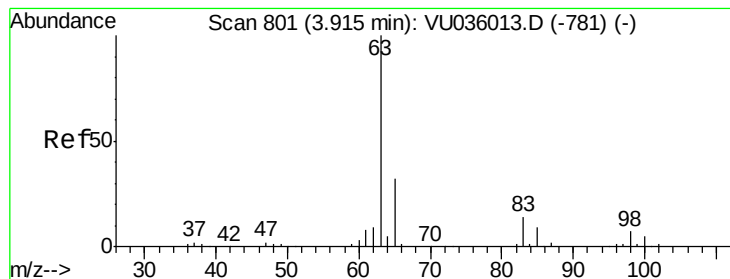
Ion Ratio Lower Upper

96 100

61 136.0 101.2 187.8

98 57.5 45.0 83.6





#19

1,1-Dichloroethane

Concen: 6.338 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

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ClientSampleId :

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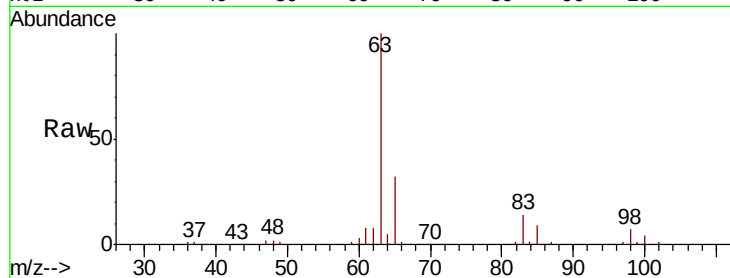
Tot Ion: 63 Resp: 264090

Ion Ratio Lower Upper

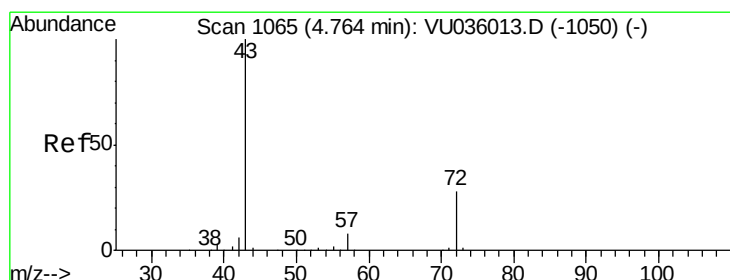
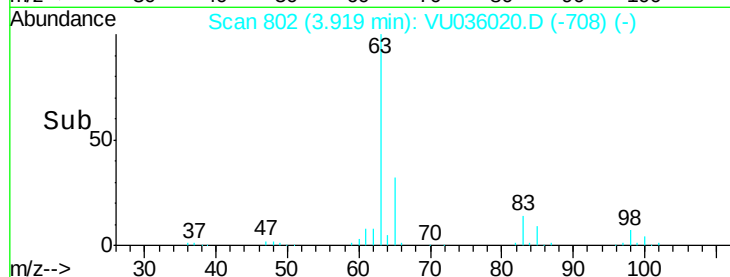
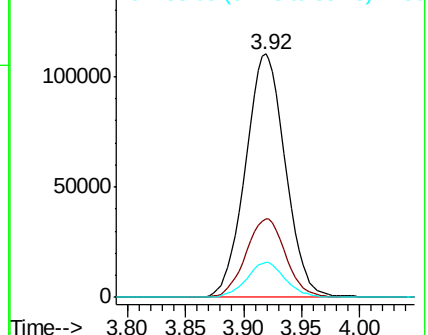
63 100

65 32.2 22.4 41.6

83 14.5 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 16.792 ug/L

RT: 4.79 min Scan# 1072

Delta R.T. 0.02 min

Lab File: VU036020.D

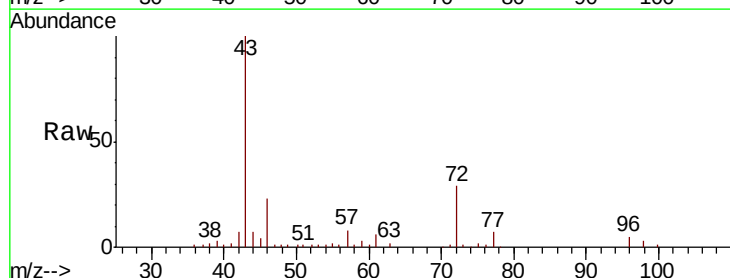
Acq: 06 Dec 2019 13:36

Tgt Ion: 43 Resp: 110502

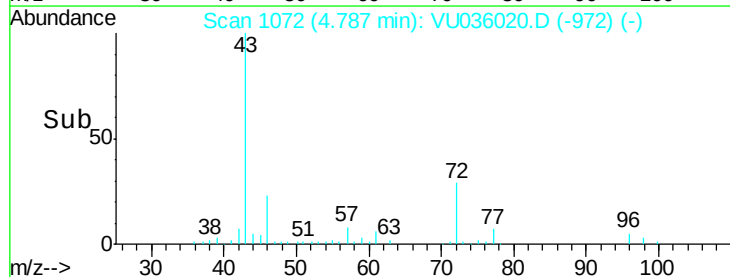
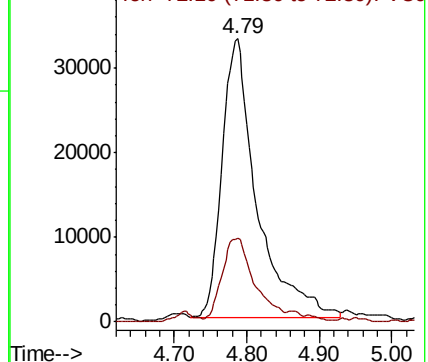
Ion Ratio Lower Upper

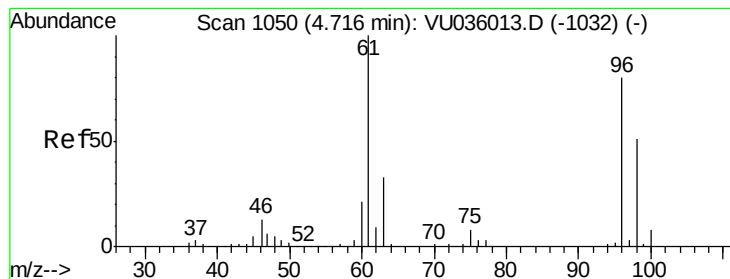
43 100

72 27.6 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 12.047 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036020.D

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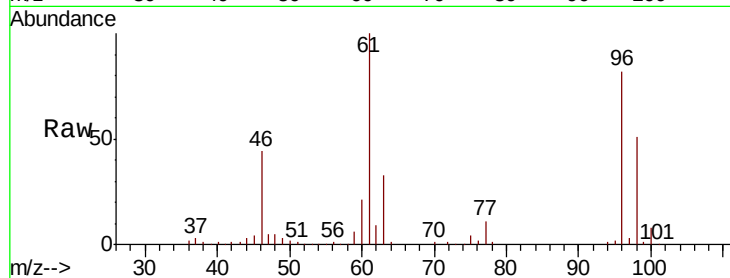
Tot Ion: 96 Resp: 271292

Ion Ratio Lower Upper

96 100

61 122.0 95.7 177.7

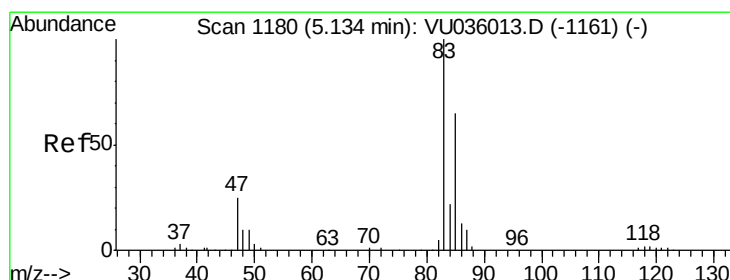
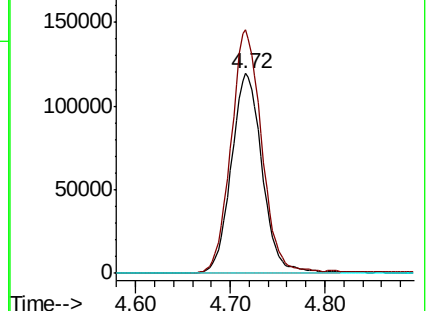
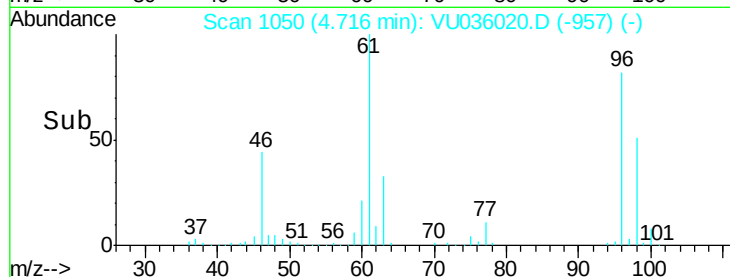
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036020.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036020.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036020.D (-957) (-)



#25

Chloroform

Concen: 1.792 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036020.D

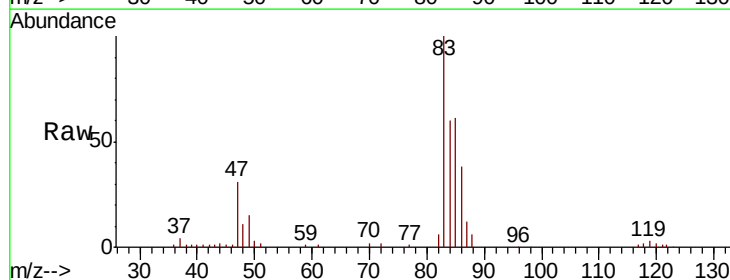
Acq: 06 Dec 2019 13:36

Tgt Ion: 83 Resp: 75325

Ion Ratio Lower Upper

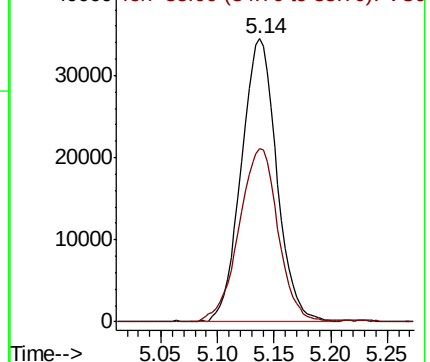
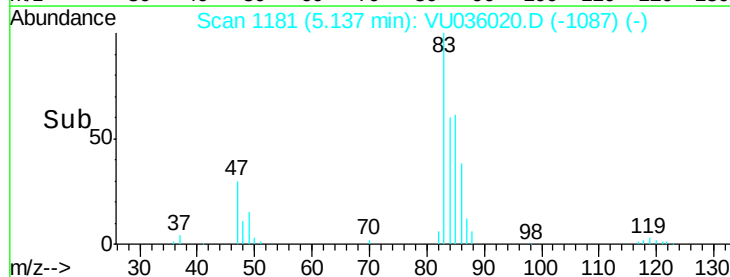
83 100

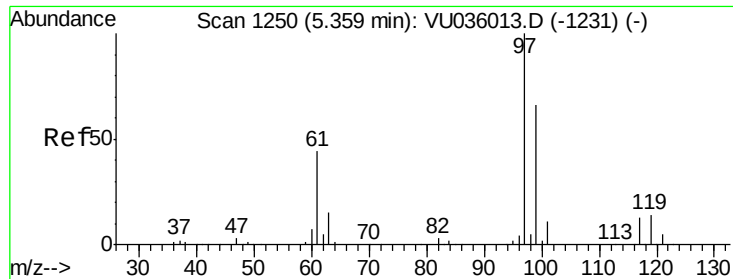
85 61.4 45.4 84.2



Abundance Ion 83.05 (82.75 to 83.75): VU036020.D (-1087) (-)

Ion 85.00 (84.70 to 85.70): VU036020.D (-1087) (-)

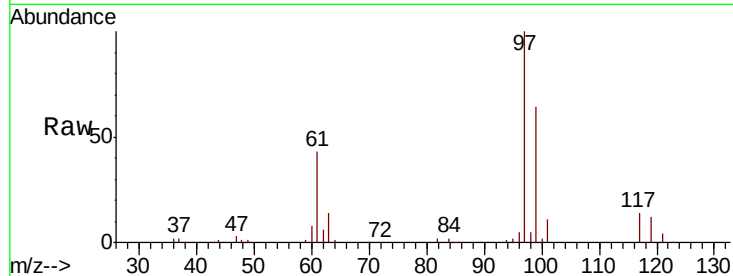




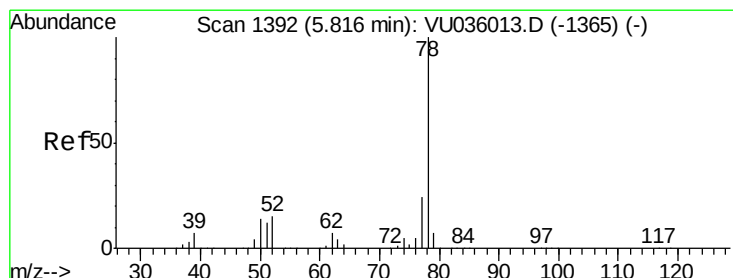
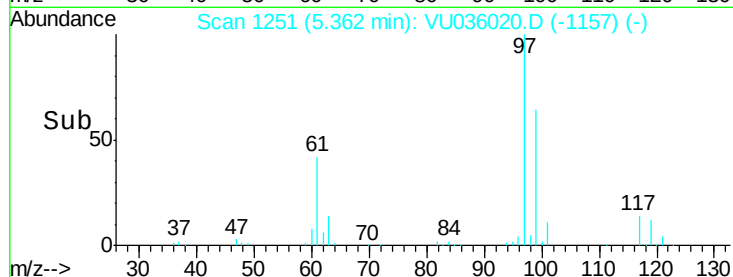
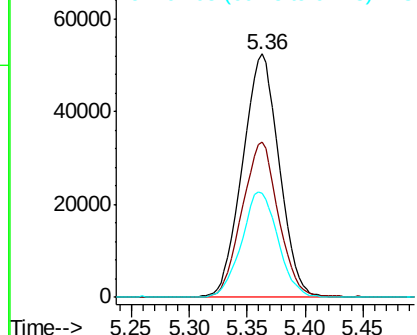
#29
 1,1,1-Trichloroethane
 Concen: 3.255 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036020.D
 Acq: 06 Dec 2019 13:36

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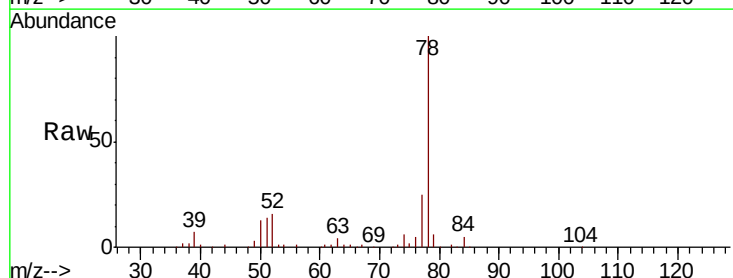
Tot Ion: 97 Resp: 115408
 Ion Ratio Lower Upper
 97 100
 99 63.2 51.8 77.8
 61 43.2 37.6 56.4



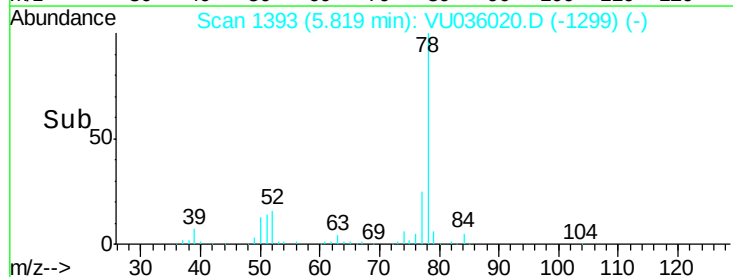
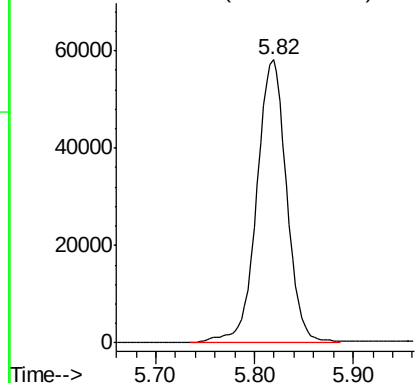
Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

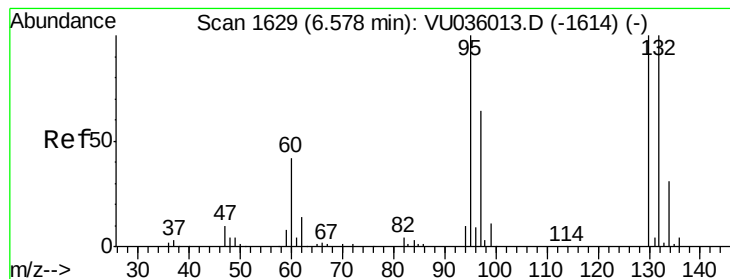


#33
 Benzene
 Concen: 1.319 ug/L
 RT: 5.82 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VU036020.D
 Acq: 06 Dec 2019 13:36
 Tgt Ion: 78 Resp: 121593



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.246 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

BFQW3

Tot Ion: 95 Resp: 5744

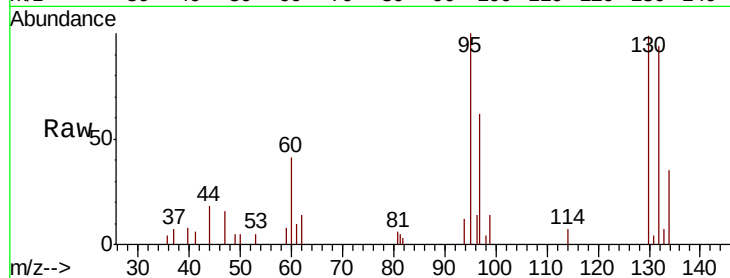
Ion Ratio Lower Upper

95 100

97 62.2 46.3 85.9

132 93.8 65.7 122.1

130 98.7 69.2 128.6

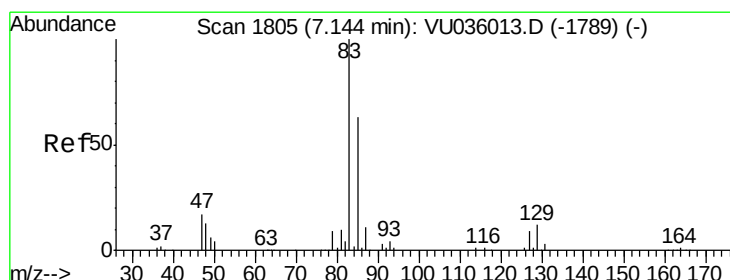
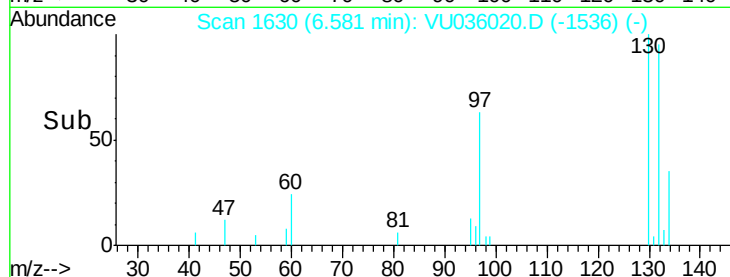
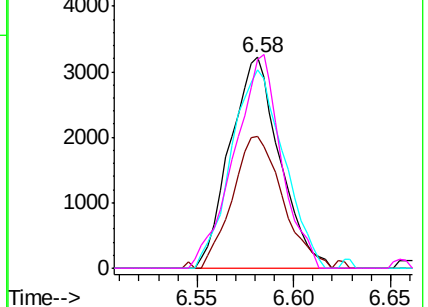


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.348 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

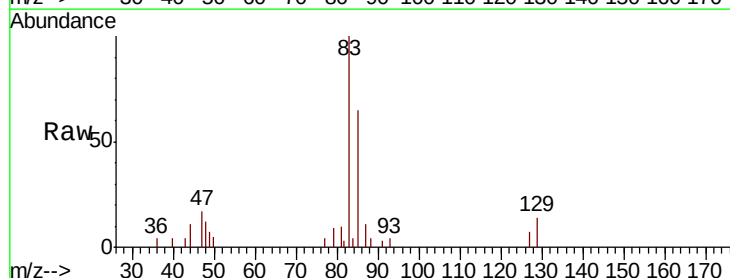
Tgt Ion: 83 Resp: 10402

Ion Ratio Lower Upper

83 100

85 64.9 44.0 81.8

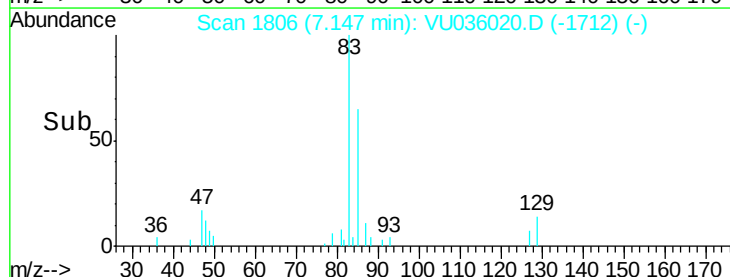
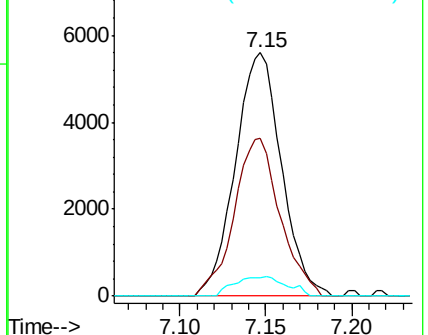
127 7.3 6.5 9.7

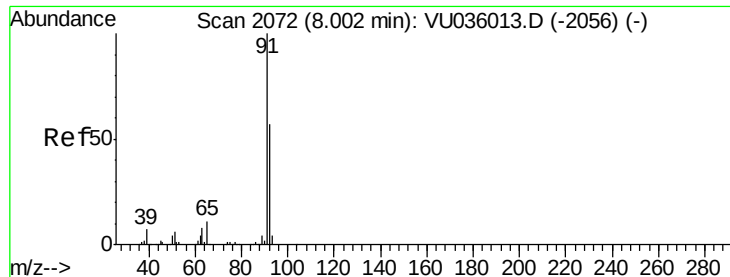


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V





#42

Toluene

Concen: 0.495 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

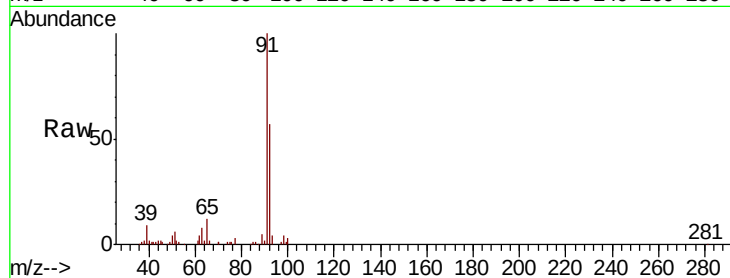
BFQW3

Tot Ion: 91 Resp: 47684

Ion Ratio Lower Upper

91 100

92 56.8 39.8 74.0

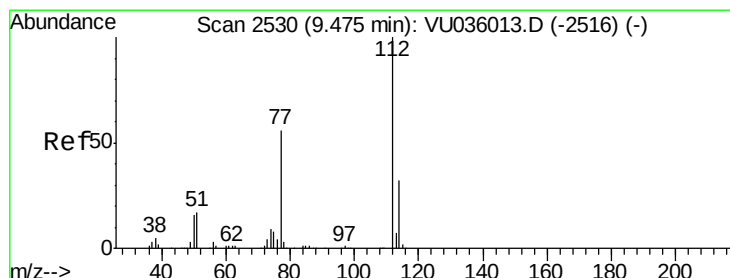
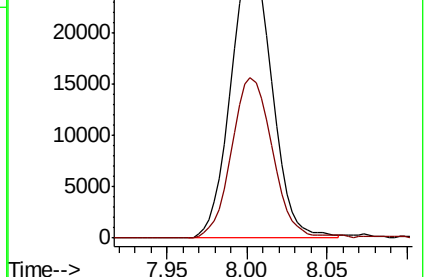
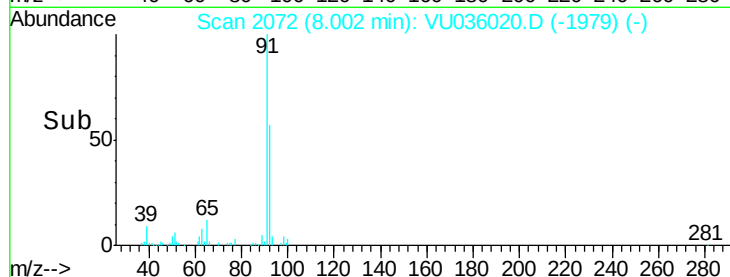


Abundance Ion 91.15 (90.85 to 91.85): VU036013.D (-2056) (-)

Ion 92.15 (91.85 to 92.85): VU036013.D (-2056) (-)

8.00

Time-->



#51

Chlorobenzene

Concen: 1.199 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

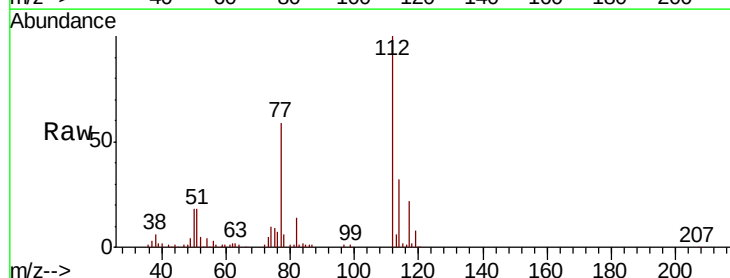
Tgt Ion: 112 Resp: 72104

Ion Ratio Lower Upper

112 100

114 32.4 22.5 41.7

77 59.3 47.7 71.5



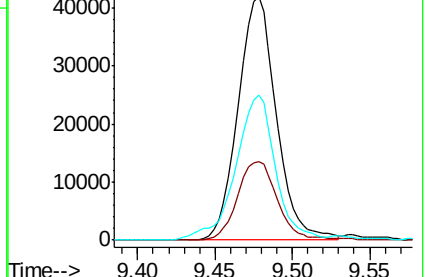
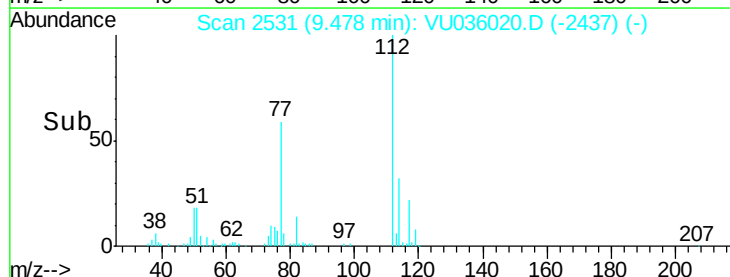
Abundance Ion 112.10 (111.80 to 112.80): VU036013.D (-2516) (-)

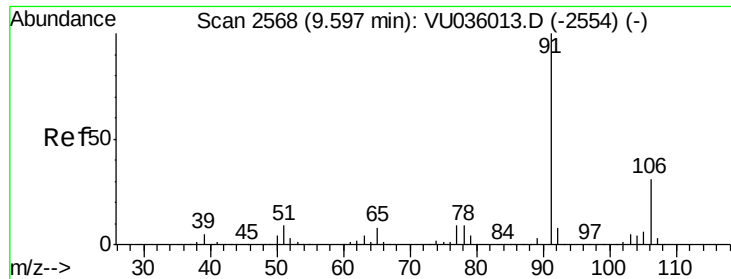
Ion 114.05 (113.75 to 114.75): VU036013.D (-2516) (-)

Ion 77.10 (76.80 to 77.80): VU036013.D (-2516) (-)

9.48

Time-->





#52

Ethylbenzene

Concen: 0.125 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036020.D

Acq: 06 Dec 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

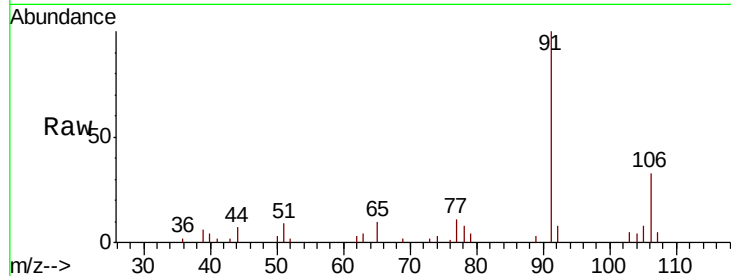
BFQW3

Tot Ion: 91 Resp: 12194

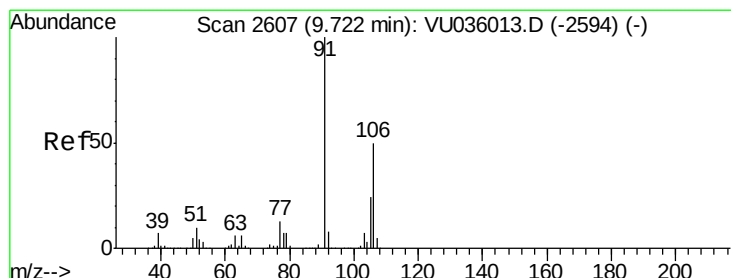
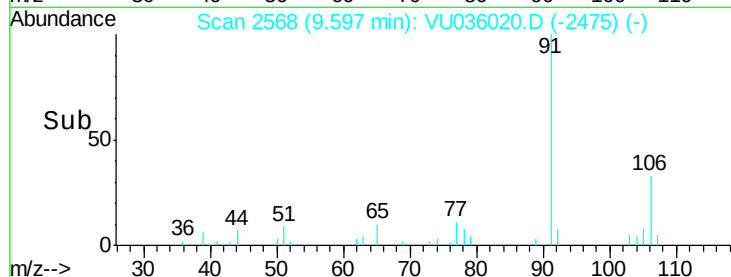
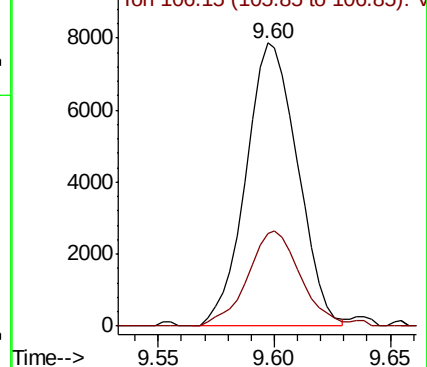
Ion Ratio Lower Upper

91 100

106 32.7 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU036020.D (-2475) (-)



#53

m,p-Xylene

Concen: 0.290 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036020.D

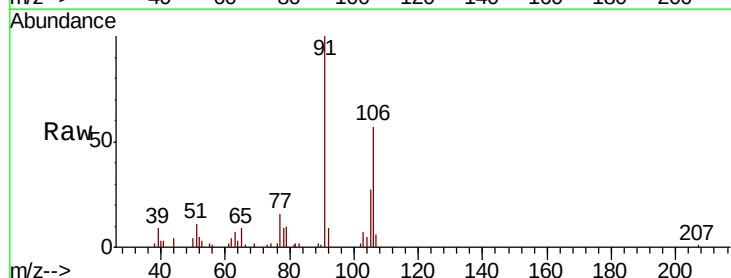
Acq: 06 Dec 2019 13:36

Tgt Ion: 106 Resp: 10641

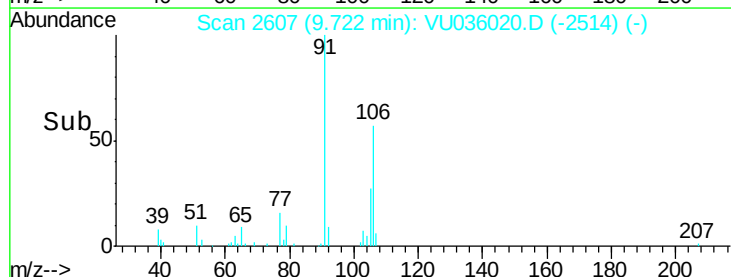
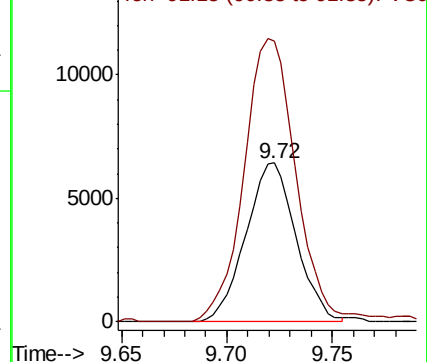
Ion Ratio Lower Upper

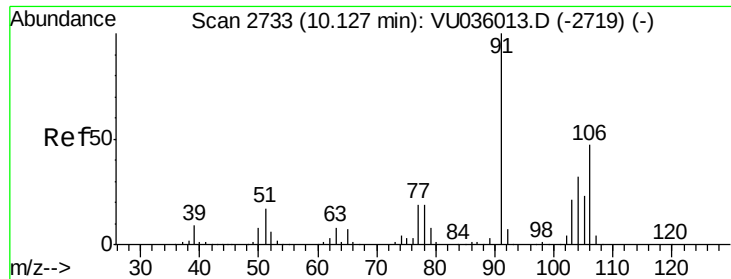
106 100

91 177.0 138.9 257.9



Abundance Ion 106.15 (105.85 to 106.85): VU036020.D (-2514) (-)

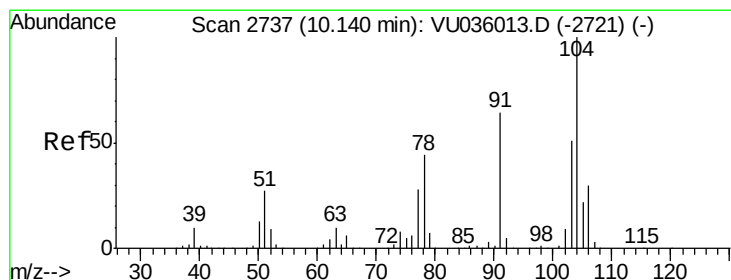
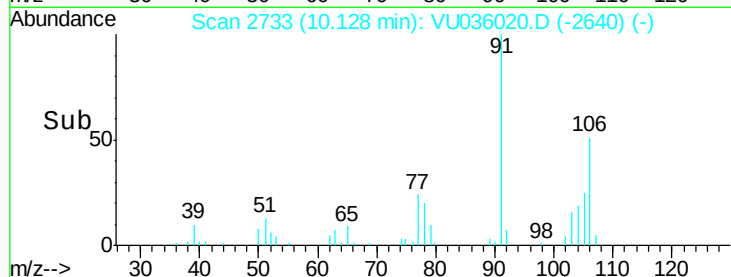
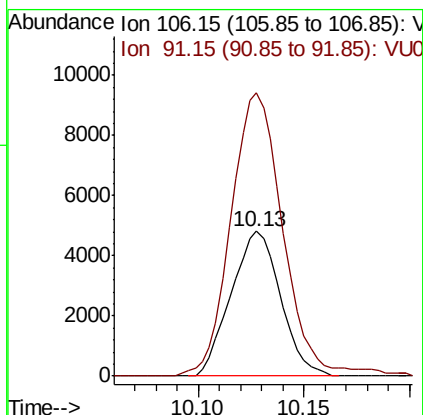
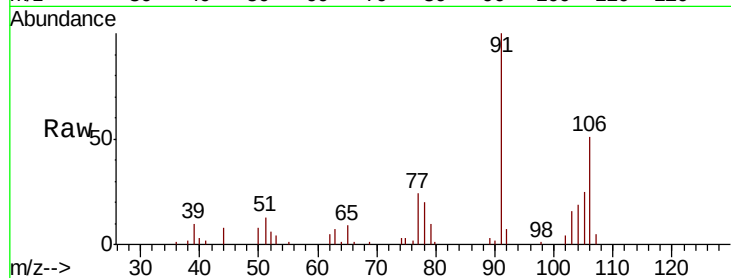




#54
o-Xylene
Concen: 0.227 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036020.D
Acq: 06 Dec 2019 13:36

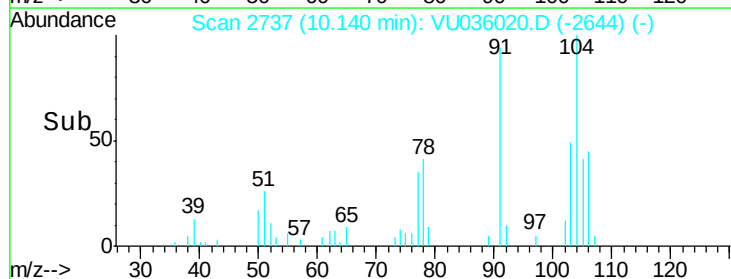
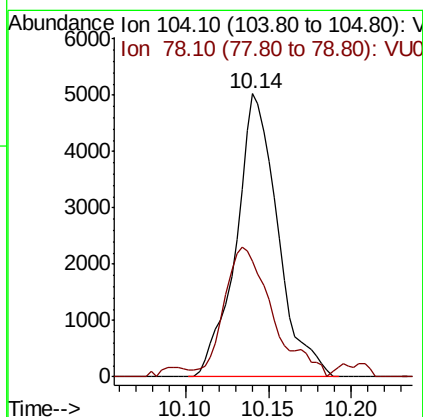
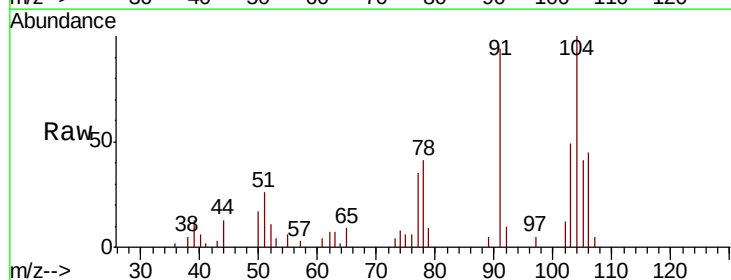
Instrument :
MSVOA_U
ClientSampled :
BFQW3

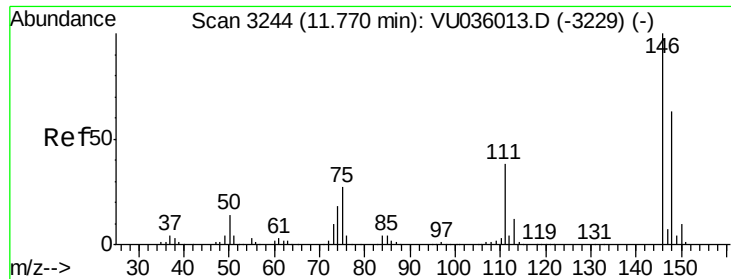
Tot Ion:106 Resp: 7835
Ion Ratio Lower Upper
106 100
91 195.8 155.3 288.3



#55
Styrene
Concen: 0.152 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036020.D
Acq: 06 Dec 2019 13:36

Tgt Ion:104 Resp: 8805
Ion Ratio Lower Upper
104 100
78 40.9 31.2 58.0

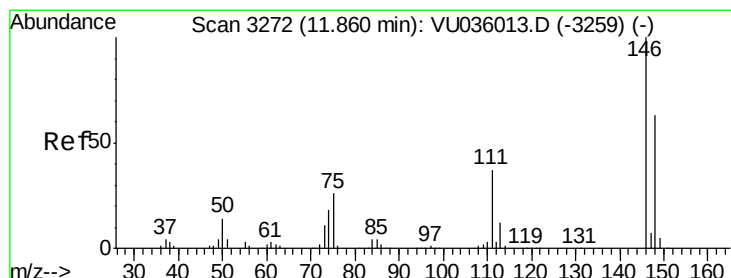
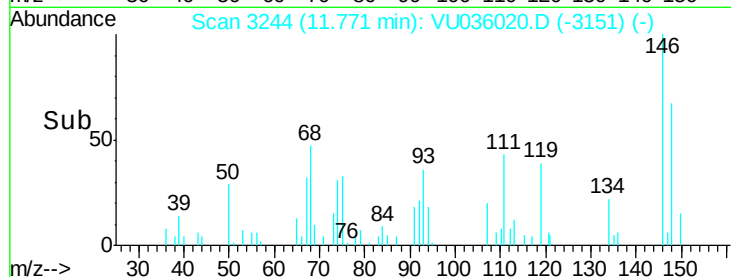
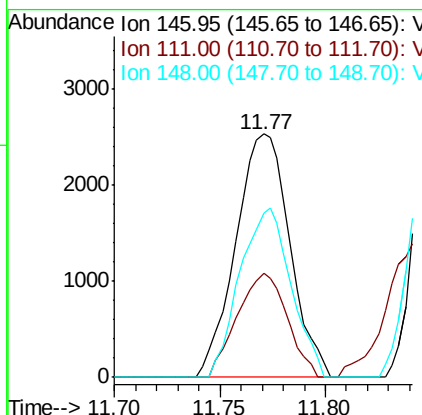
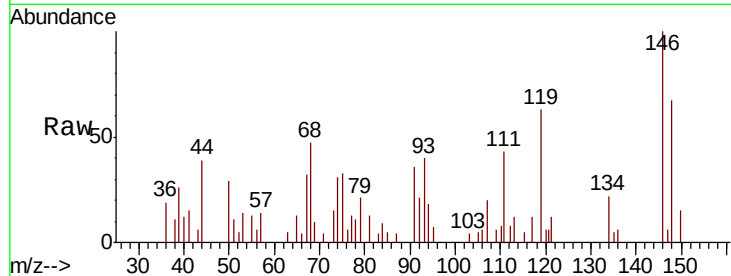




#62
 1,3-Dichlorobenzene
 Concen: 0.109 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036020.D
 Acq: 06 Dec 2019 13:36

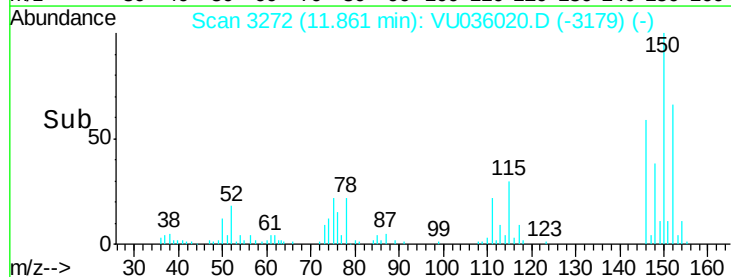
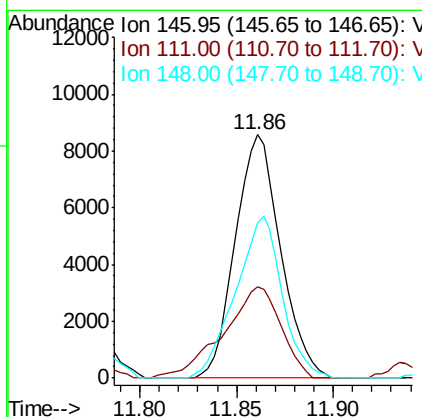
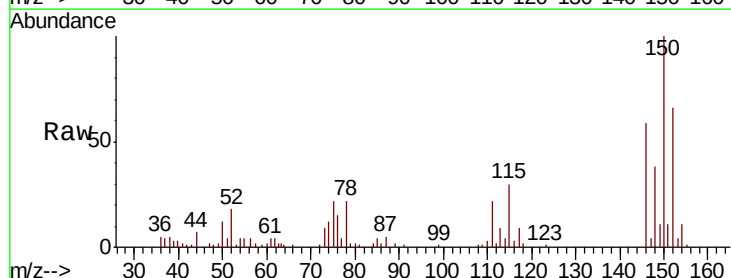
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW3

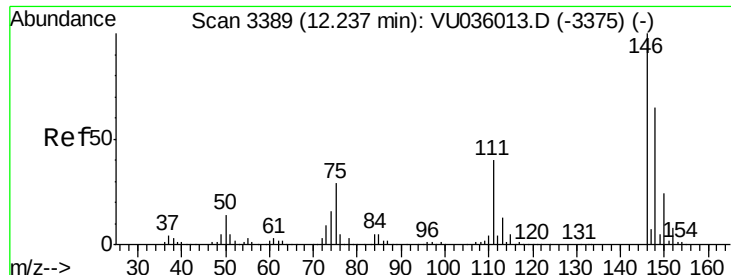
Tot Ion:146 Resp: 4511
 Ion Ratio Lower Upper
 146 100
 111 42.6 27.6 51.4
 148 67.4 43.4 80.6



#63
 1,4-Dichlorobenzene
 Concen: 0.339 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036020.D
 Acq: 06 Dec 2019 13:36

Tgt Ion:146 Resp: 13943
 Ion Ratio Lower Upper
 146 100
 111 37.7 28.5 52.9
 148 63.6 44.4 82.5

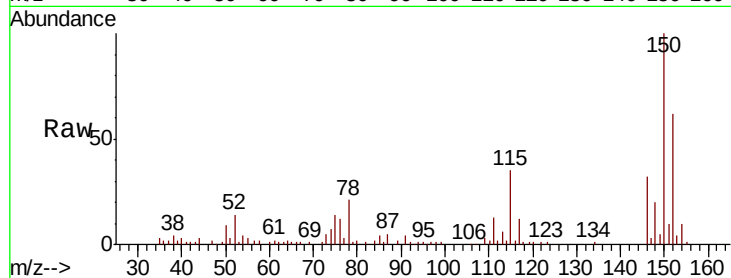




#65
 1,2-Dichlorobenzene
 Concen: 0.348 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036020.D
 Acq: 06 Dec 2019 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW3

Tot Ion:146 Resp: 13761
 Ion Ratio Lower Upper
 146 100
 111 41.9 32.6 48.8
 148 62.7 50.9 76.3



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

