

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120619\
 Data File : VU036018.D
 Acq On : 06 Dec 2019 12:47
 Operator : JC/SP
 Sample : K6132-19
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW0

Quant Time: Dec 06 23:12:35 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	287966	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	298321	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	127542	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	117607	3.58	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.60%
7) Chloroethane-d5	1.93	69	117597	4.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.40%
11) 1,1-Dichloroethene-d2	2.59	63	141839	3.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.20%
20) 2-Butanone-d5	4.70	46	298663	51.38	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.76%
24) Chloroform-d	5.11	84	205544	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	5.75	65	107183	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
32) Benzene-d6	5.77	84	394075	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
36) 1,2-Dichloropropane-d6	6.73	67	124283	4.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.00%
41) Toluene-d8	7.93	98	317858	3.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.20%
43) trans-1,3-Dichloropropene-	8.21	79	45945	3.98	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.60%
46) 2-Hexanone-d5	8.68	63	238141	52.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.80%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	121336	5.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	131799	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	195686	5.689	ug/L #	39
8) Chloroethane	1.95	64	71774	3.365	ug/L #	77
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	5436	0.246	ug/L #	77
13) Acetone	2.69	43	75894	14.441	ug/L	89
14) Carbon disulfide	2.82	76	8308	0.115	ug/L	95
16) Methylene chloride	3.08	84	18716	0.585	ug/L	94
19) 1,1-Dichloroethane	3.92	63	558808	13.081	ug/L	99
21) 2-Butanone	4.78	43	32661	4.841	ug/L	93
22) cis-1,2-Dichloroethene	4.72	96	507878	21.998	ug/L	89
25) Chloroform	5.13	83	63690	1.478	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	217253	6.022	ug/L	97
33) Benzene	5.82	78	122771	1.309	ug/L	100
34) Trichloroethene	6.58	95	3549	0.150	ug/L	92
38) Bromodichloromethane	7.14	83	6985	0.230	ug/L #	92
40) 4-Methyl-2-pentanone	7.84	43	15196	1.018	ug/L #	88
42) Toluene	8.00	91	39937	0.408	ug/L	97
51) Chlorobenzene	9.48	112	35644	0.582	ug/L	98

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

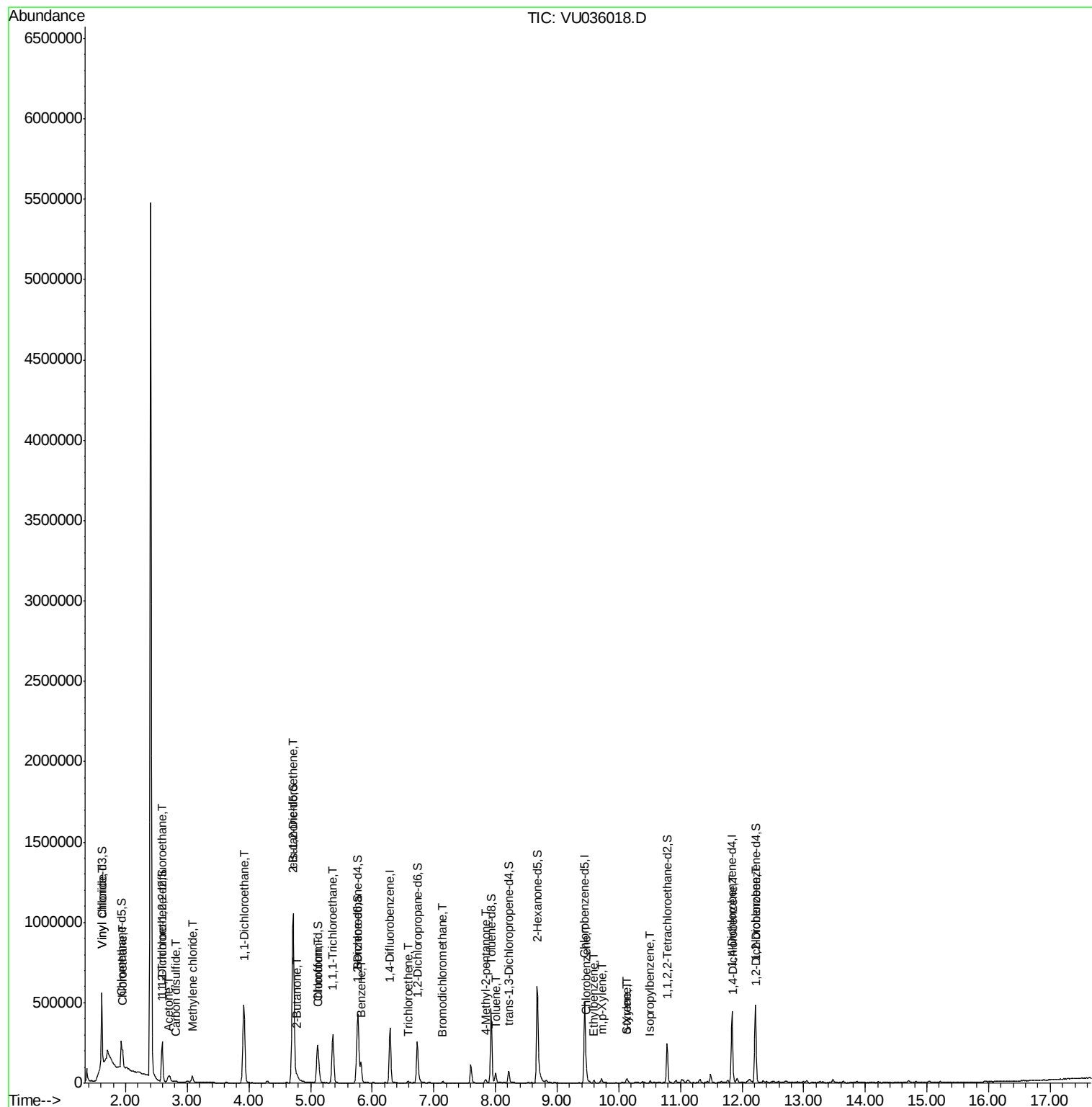
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.60	91	9396	0.095	ug/L #	83
53) m,p-Xylene	9.72	106	6492	0.174	ug/L	98
54) o-Xylene	10.13	106	5980	0.170	ug/L	88
55) Styrene	10.14	104	5369	0.091	ug/L	95
56) Isopropylbenzene	10.51	105	8346	0.091	ug/L	96
63) 1,4-Dichlorobenzene	11.86	146	6214	0.148	ug/L	92
65) 1,2-Dichlorobenzene	12.24	146	6874	0.170	ug/L	93

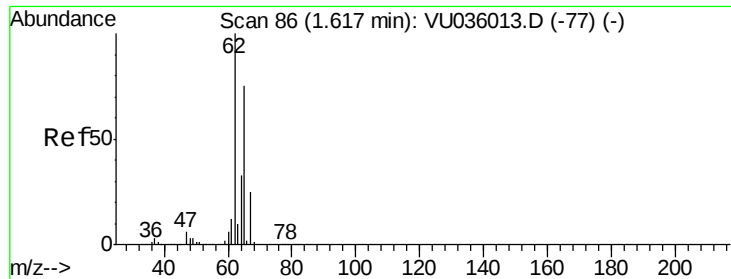
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 5.689 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

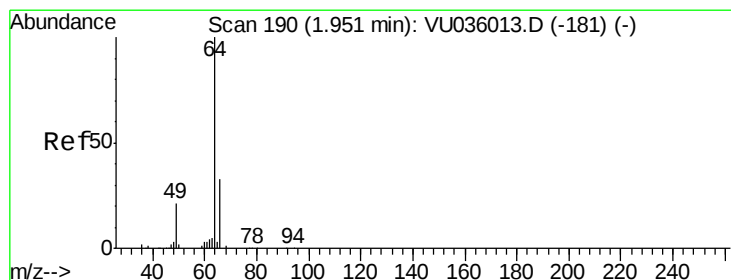
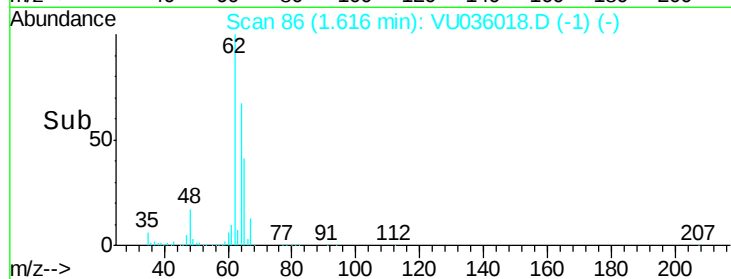
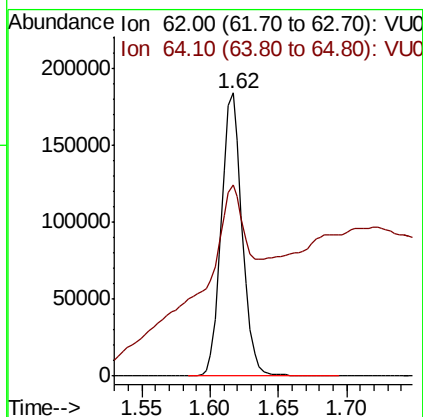
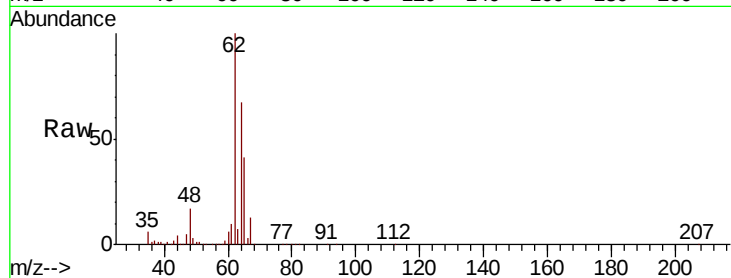
BFQW0

Tot Ion: 62 Resp: 195686

Ion Ratio Lower Upper

62 100

64 67.4 23.0 42.6#



#8

Chloroethane

Concen: 3.365 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036018.D

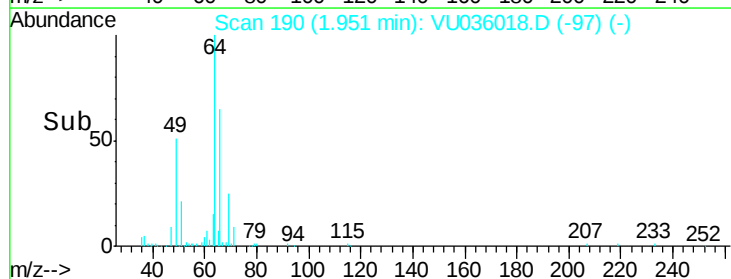
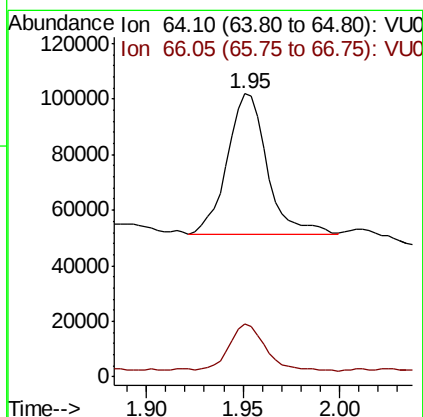
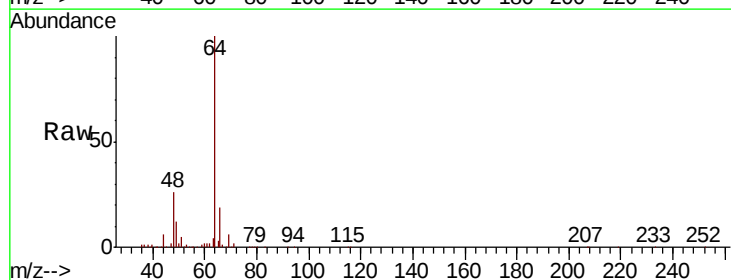
Acq: 06 Dec 2019 12:47

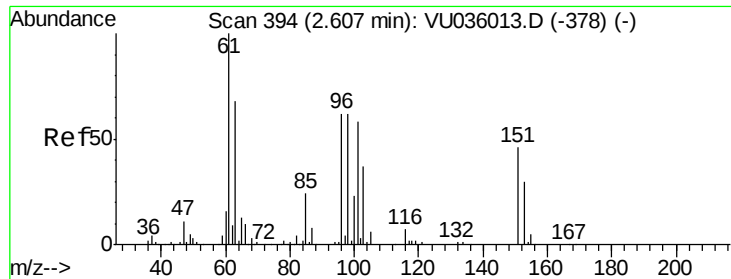
Tgt Ion: 64 Resp: 71774

Ion Ratio Lower Upper

64 100

66 18.6 22.0 40.8#





#10

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

Concen: 0.246 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

BFQW0

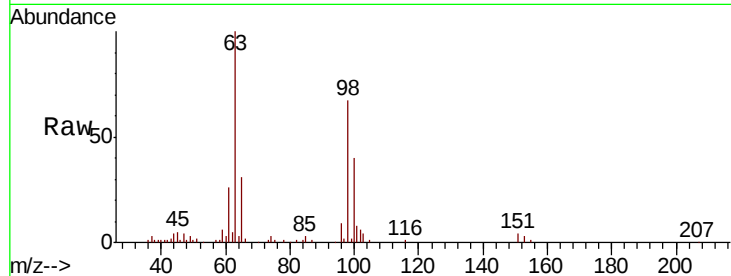
Tot Ion:101 Resp: 5436

Ion Ratio Lower Upper

101 100

85 30.8 35.5 53.3#

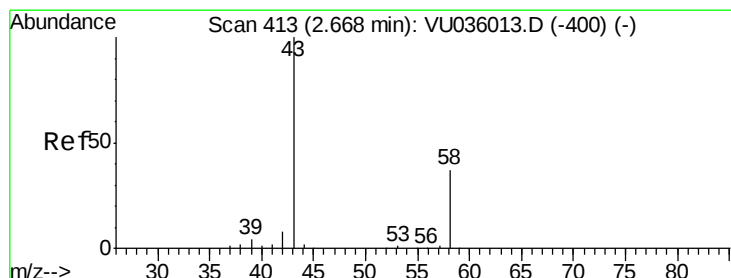
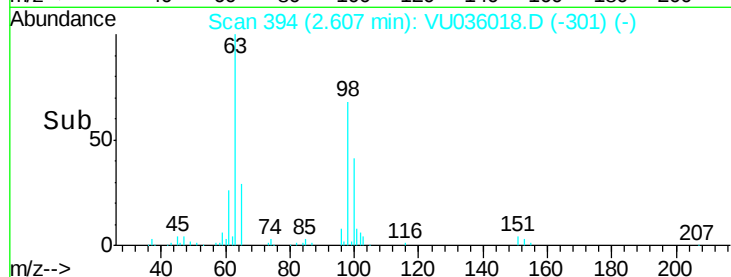
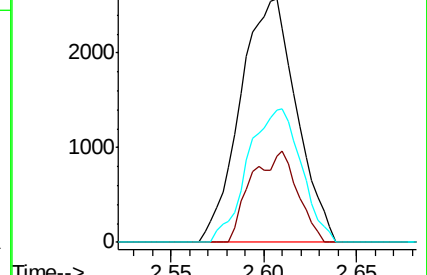
151 52.0 57.5 86.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 14.441 ug/L

RT: 2.69 min Scan# 421

Delta R.T. 0.03 min

Lab File: VU036018.D

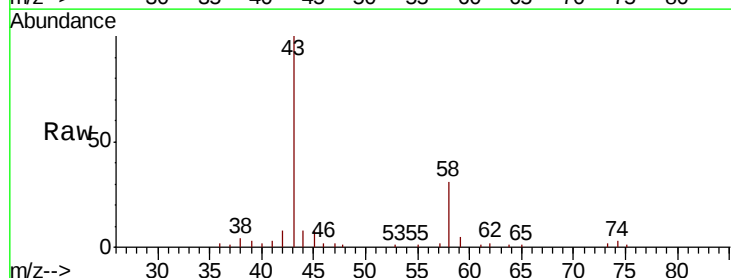
Acq: 06 Dec 2019 12:47

Tgt Ion: 43 Resp: 75894

Ion Ratio Lower Upper

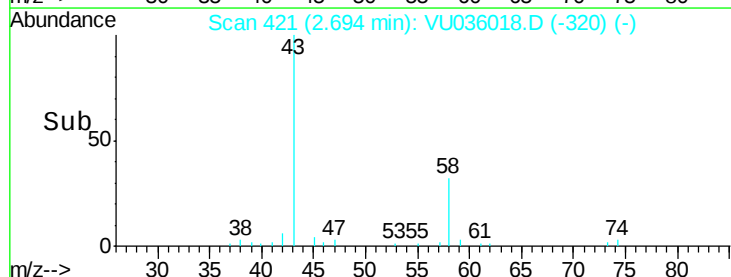
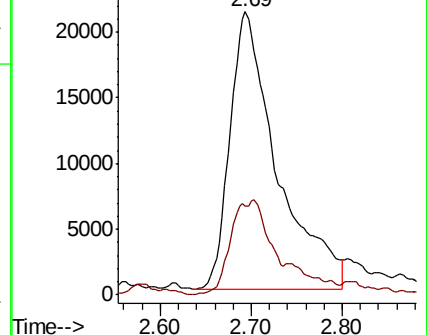
43 100

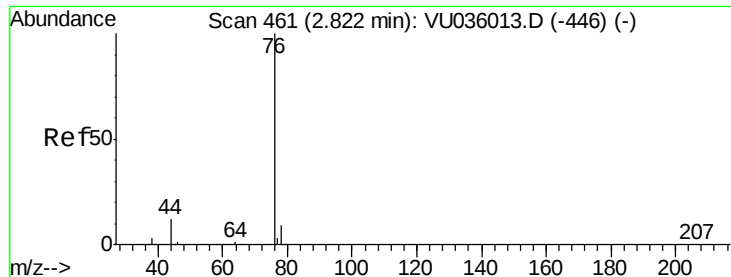
58 28.0 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.115 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

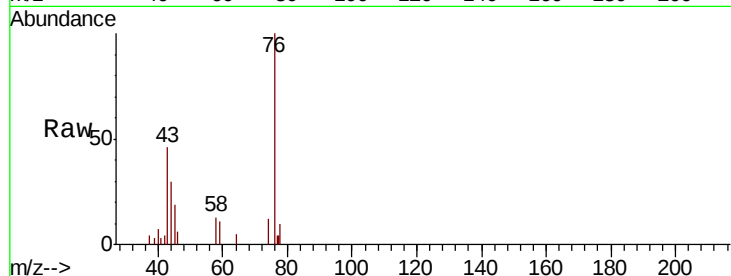
BFQW0

Tot Ion: 76 Resp: 8308

Ion Ratio Lower Upper

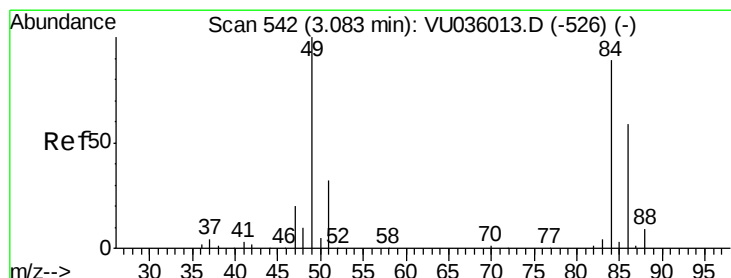
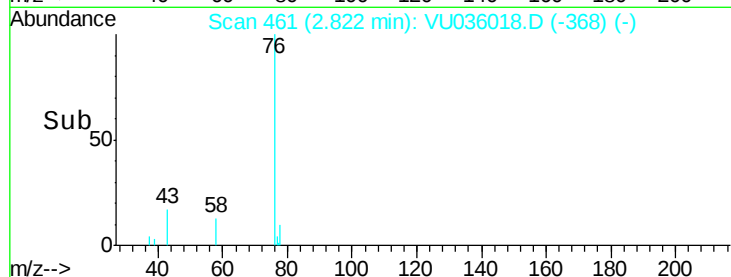
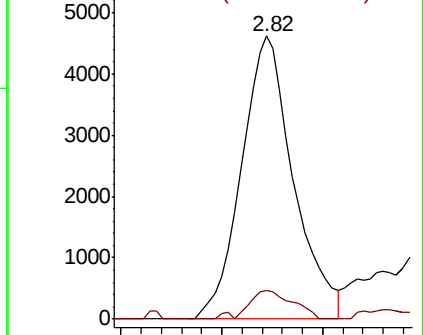
76 100

78 10.3 6.9 10.3



Abundance Ion 76.05 (75.75 to 76.75): VU036018.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036018.D (-368) (-)



#16

Methylene chloride

Concen: 0.585 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

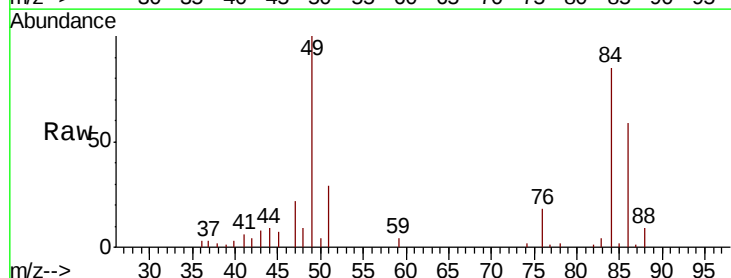
Tgt Ion: 84 Resp: 18716

Ion Ratio Lower Upper

84 100

86 70.0 44.7 82.9

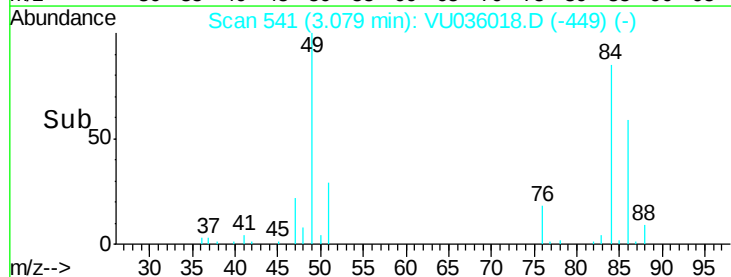
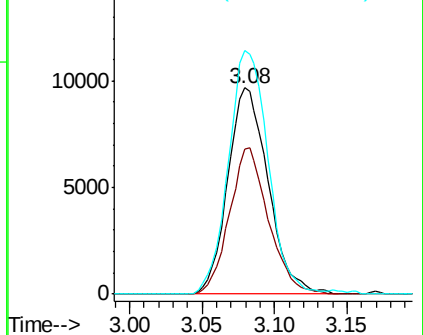
49 118.0 86.2 160.2

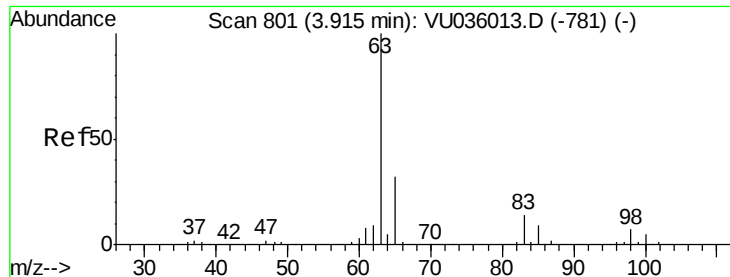


Abundance Ion 84.05 (83.75 to 84.75): VU036018.D (-449) (-)

Ion 86.00 (85.70 to 86.70): VU036018.D (-449) (-)

Ion 49.10 (48.80 to 49.80): VU036018.D (-449) (-)

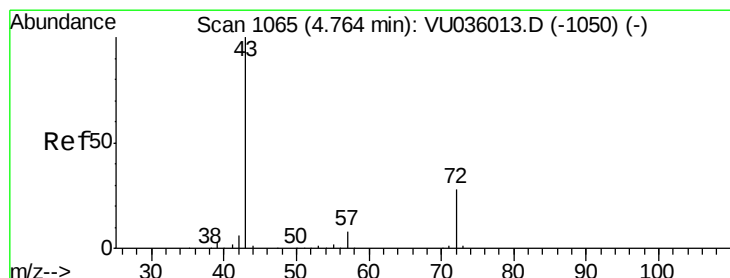
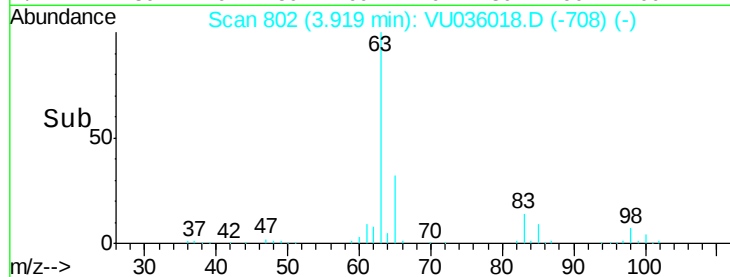
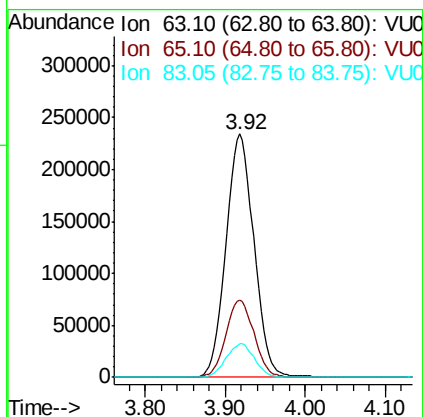
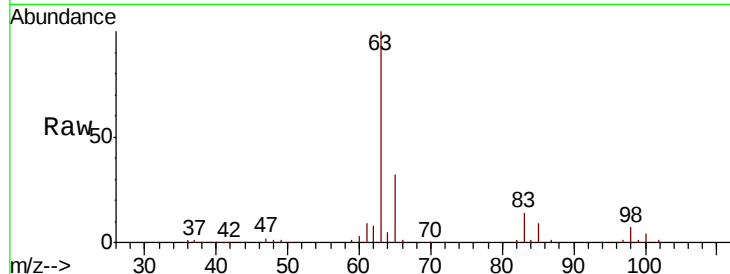




#19
 1,1-Dichloroethane
 Concen: 13.081 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

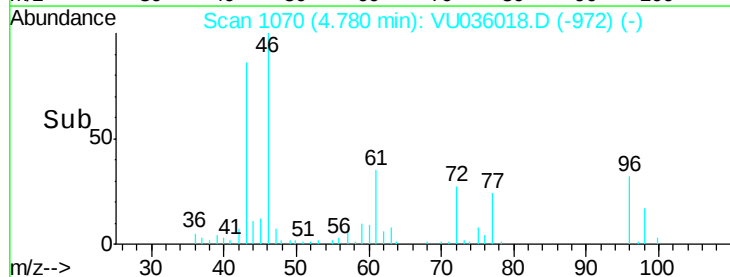
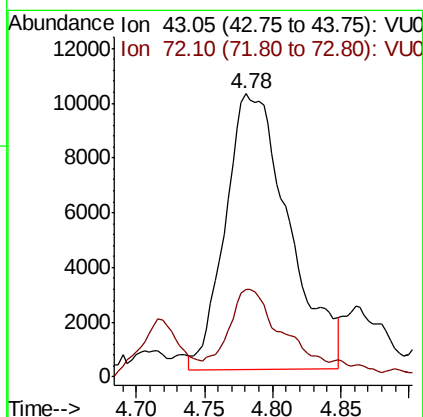
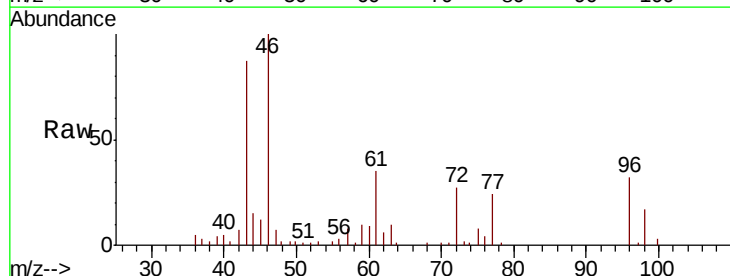
Instrument :
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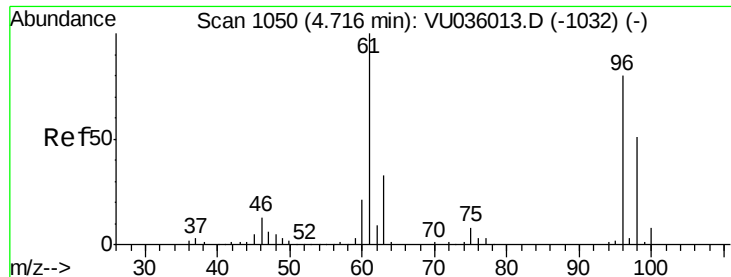
Tot Ion: 63 Resp: 558808
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.4 41.6
 83 13.7 9.8 18.2



#21
 2-Butanone
 Concen: 4.841 ug/L
 RT: 4.78 min Scan# 1070
 Delta R.T. 0.02 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

Tgt Ion: 43 Resp: 32661
 Ion Ratio Lower Upper
 43 100
 72 21.8 12.6 37.8





#22

cis-1,2-Dichloroethene

Concen: 21.998 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

BFQW0

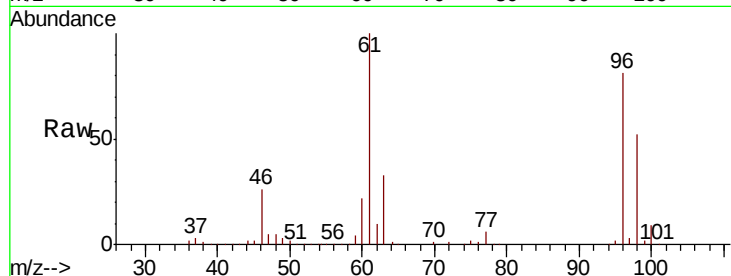
Tot Ion: 96 Resp: 507878

Ion Ratio Lower Upper

96 100

61 123.6 95.7 177.7

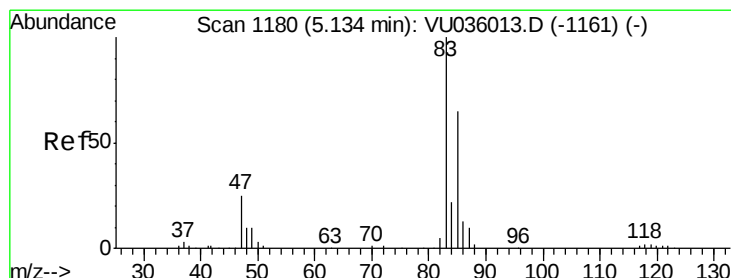
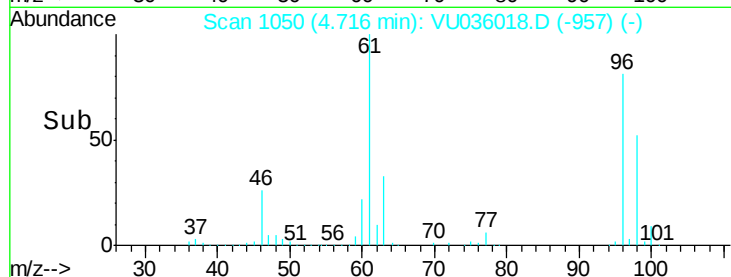
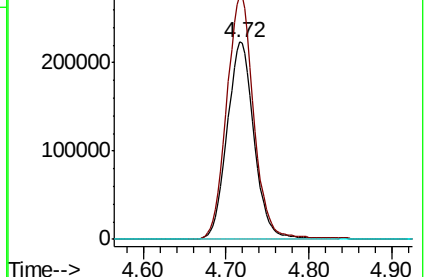
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036018.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU036018.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU036018.D (-1032) (-)



#25

Chloroform

Concen: 1.478 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU036018.D

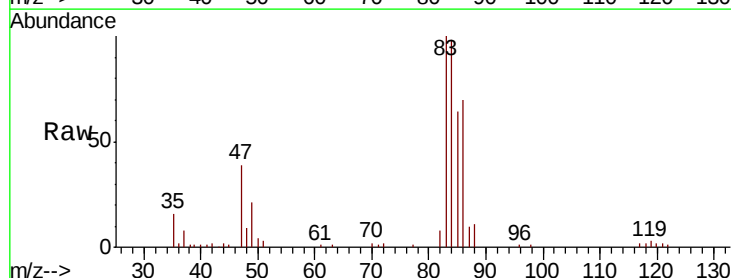
Acq: 06 Dec 2019 12:47

Tgt Ion: 83 Resp: 63690

Ion Ratio Lower Upper

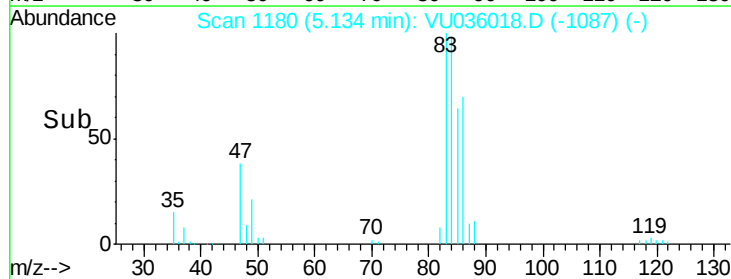
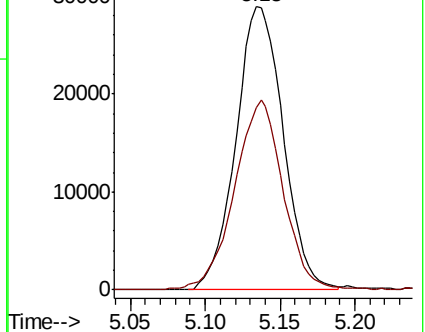
83 100

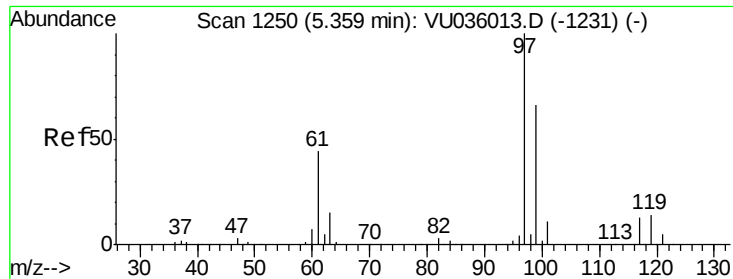
85 64.2 45.4 84.2



Abundance Ion 83.05 (82.75 to 83.75): VU036018.D (-1087) (-)

Ion 85.00 (84.70 to 85.70): VU036018.D (-1087) (-)

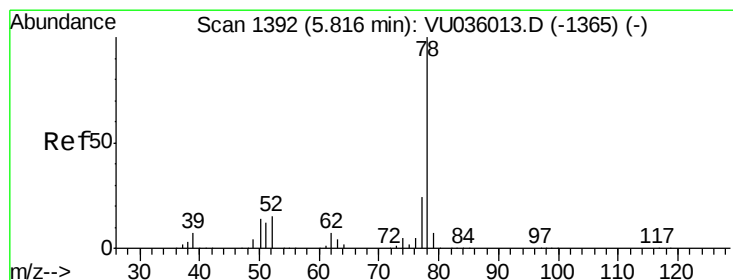
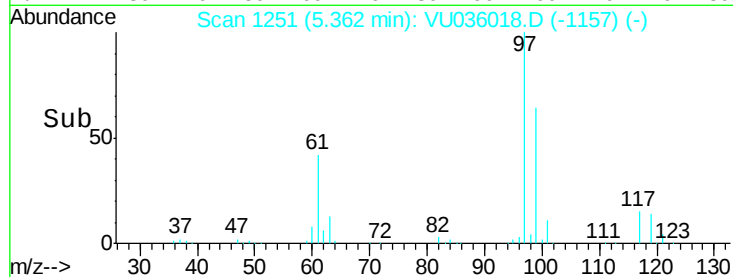
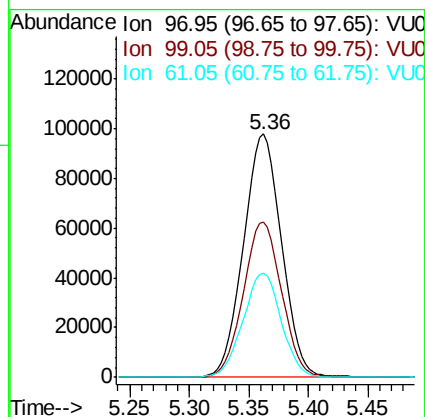
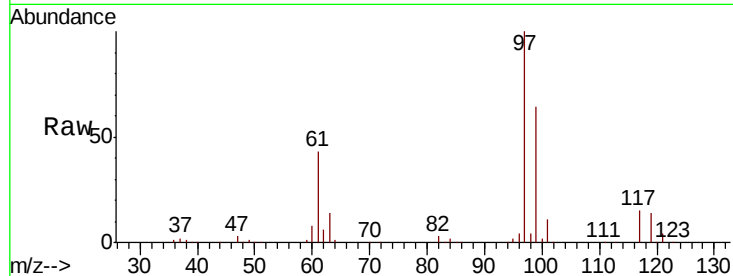




#29
 1,1,1-Trichloroethane
 Concen: 6.022 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

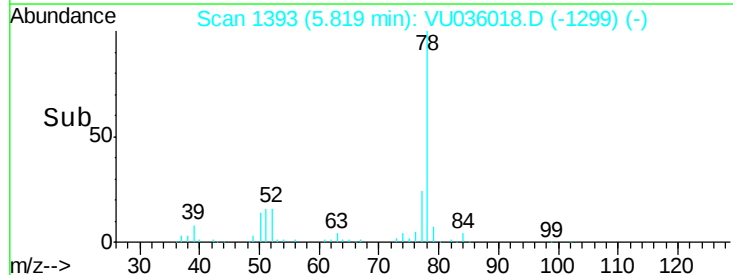
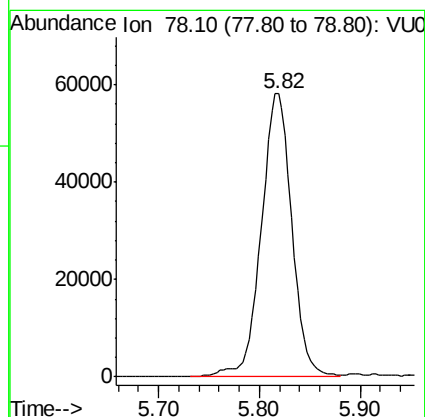
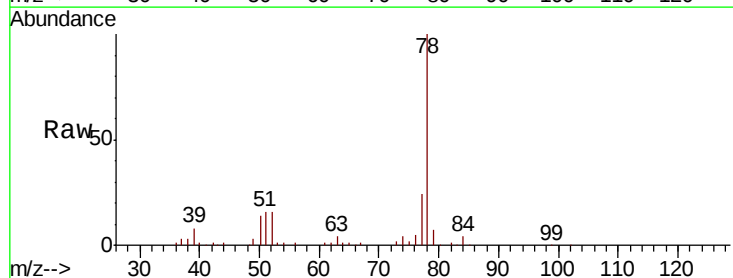
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW0

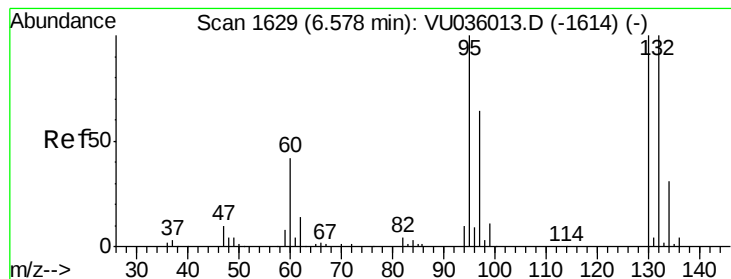
Tot Ion: 97 Resp: 217253
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.8 77.8
 61 43.4 37.6 56.4



#33
 Benzene
 Concen: 1.309 ug/L
 RT: 5.82 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

Tgt Ion: 78 Resp: 122771





#34

Trichloroethene

Concen: 0.150 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

BFQW0

Tot Ion: 95 Resp: 3549

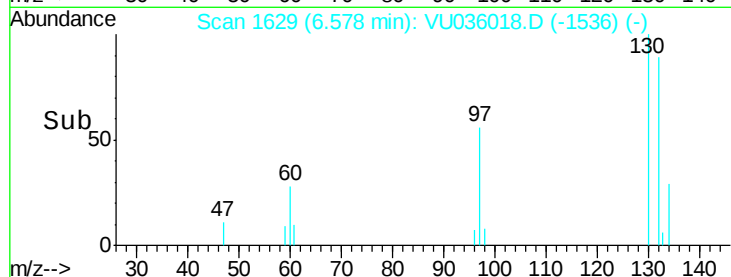
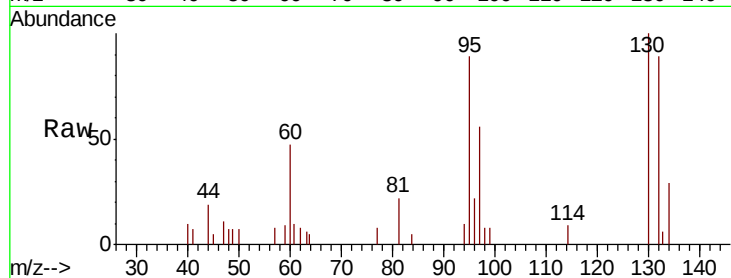
Ion Ratio Lower Upper

95 100

97 63.0 46.3 85.9

132 100.0 65.7 122.1

130 111.8 69.2 128.6

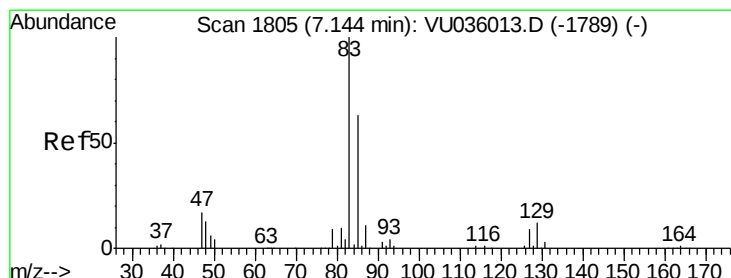
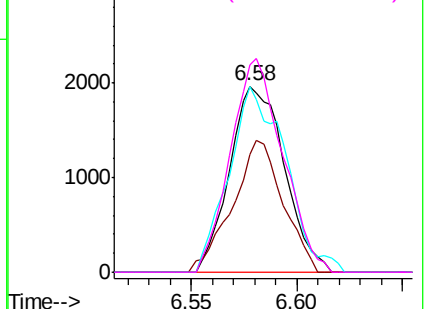


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.230 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

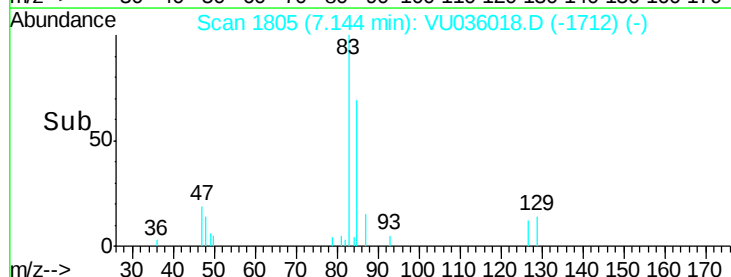
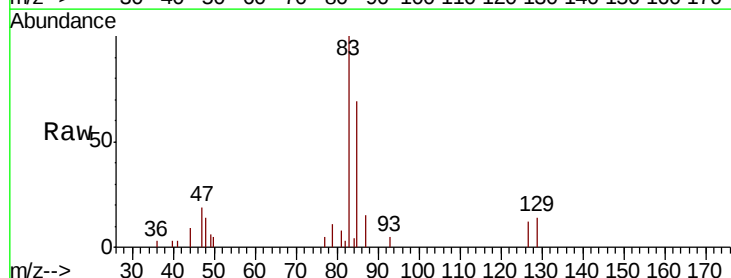
Tgt Ion: 83 Resp: 6985

Ion Ratio Lower Upper

83 100

85 69.1 44.0 81.8

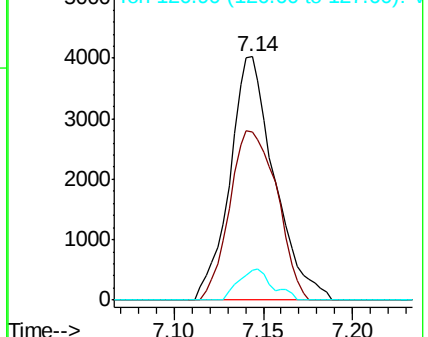
127 12.1 6.5 9.7#

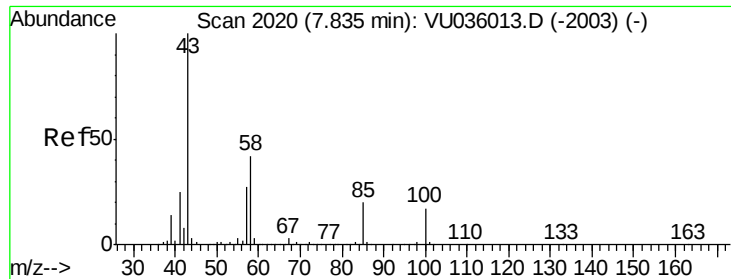


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

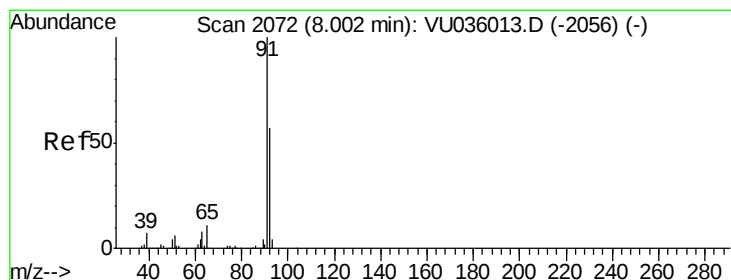
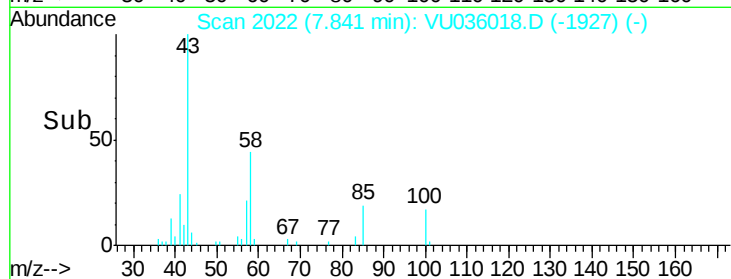
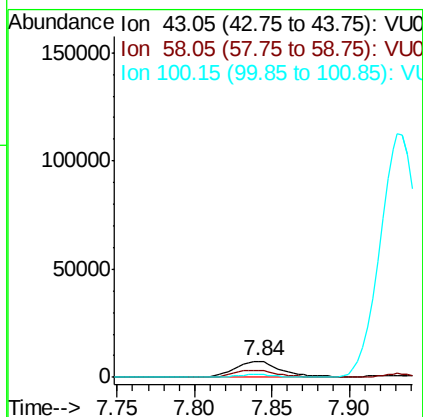
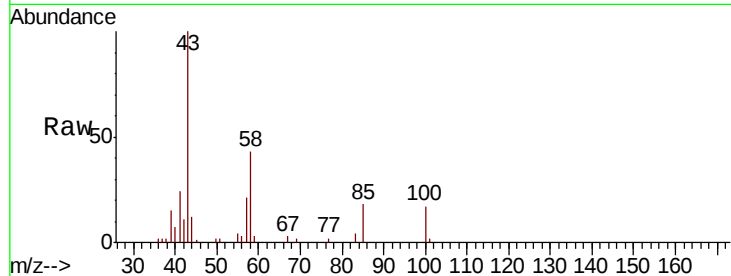




#40
 4-Methyl-2-pentanone
 Concen: 1.018 ug/L
 RT: 7.84 min Scan# 2022
 Delta R.T. 0.01 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

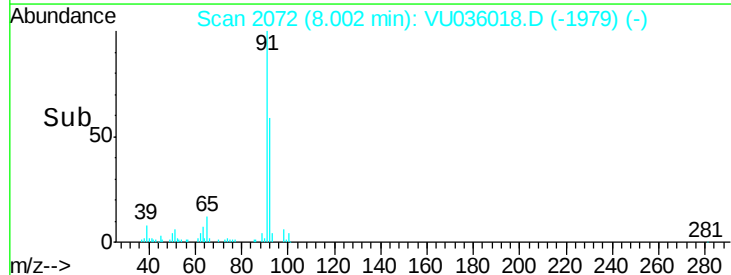
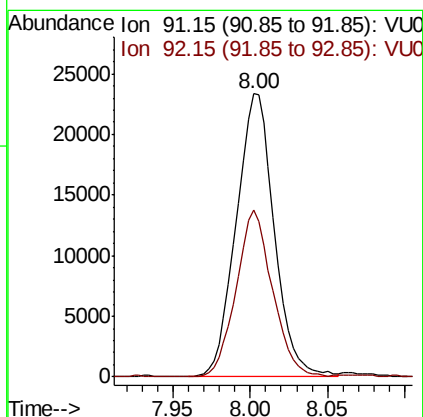
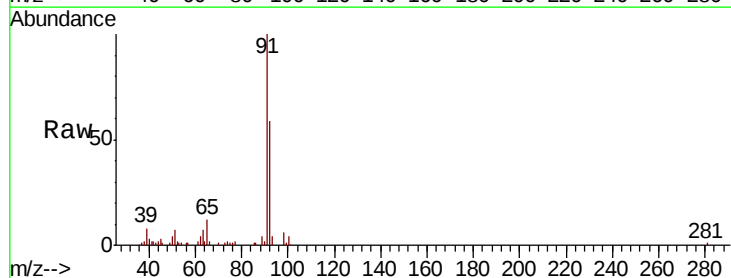
Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW0

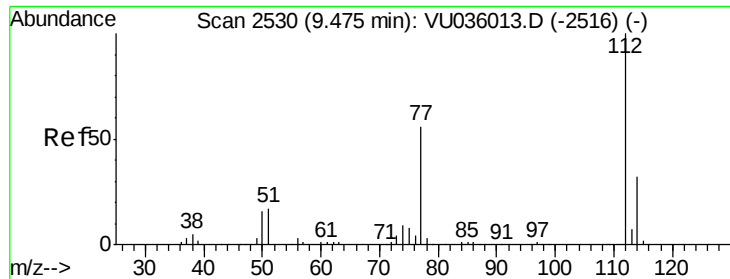
Tot Ion: 43 Resp: 15196
 Ion Ratio Lower Upper
 43 100
 58 42.8 32.3 48.5
 100 0.0 11.7 17.5#



#42
 Toluene
 Concen: 0.408 ug/L
 RT: 8.00 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

Tgt Ion: 91 Resp: 39937
 Ion Ratio Lower Upper
 91 100
 92 59.1 39.8 74.0





#51

Chlorobenzene

Concen: 0.582 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

BFQW0

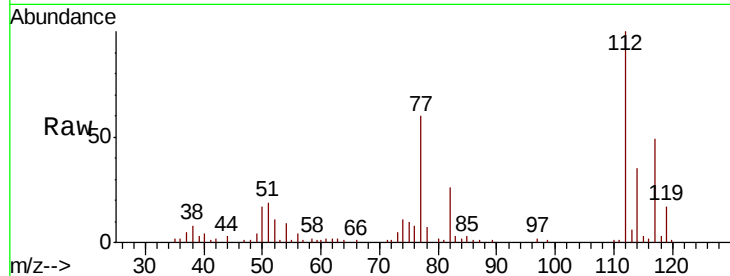
Tot Ion:112 Resp: 35644

Ion Ratio Lower Upper

112 100

114 34.8 22.5 41.7

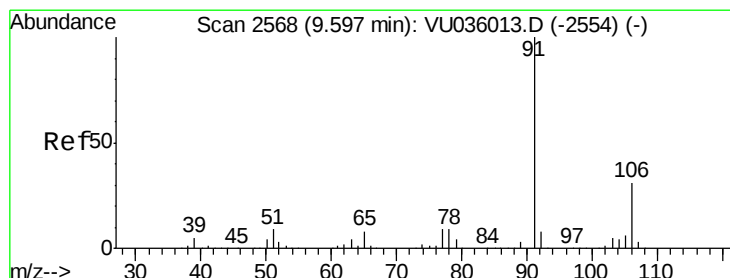
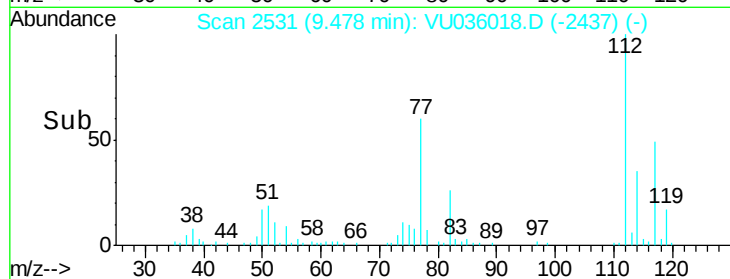
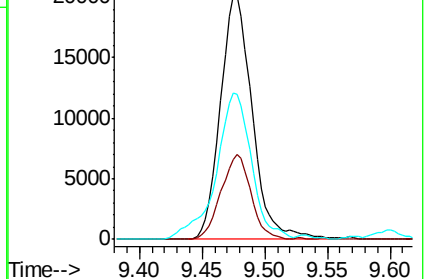
77 59.6 47.7 71.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 0.095 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036018.D

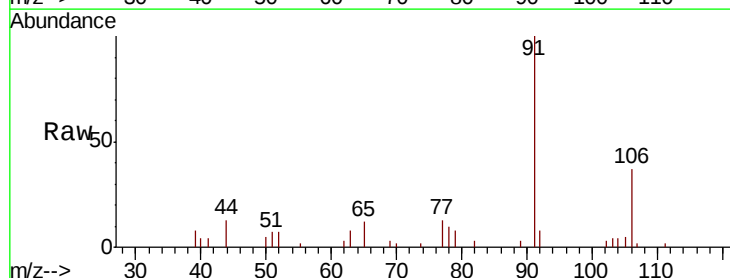
Acq: 06 Dec 2019 12:47

Tgt Ion: 91 Resp: 9396

Ion Ratio Lower Upper

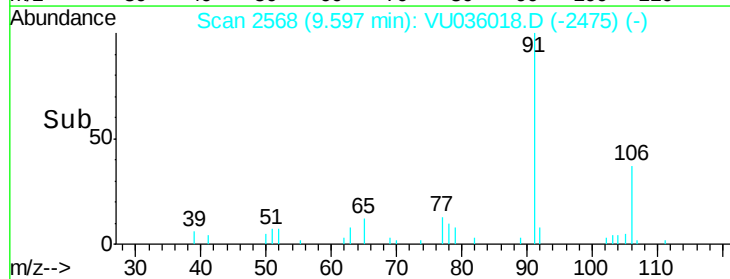
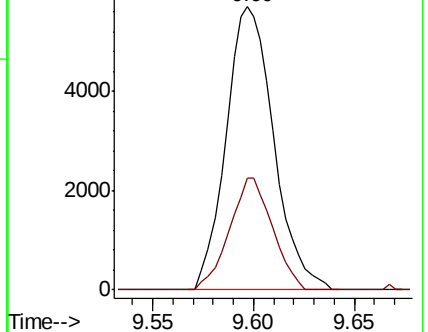
91 100

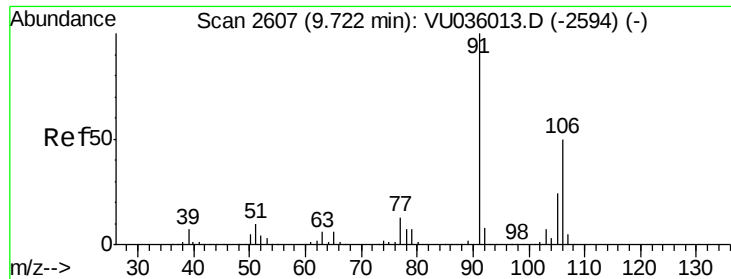
106 39.5 21.1 39.3#



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.174 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

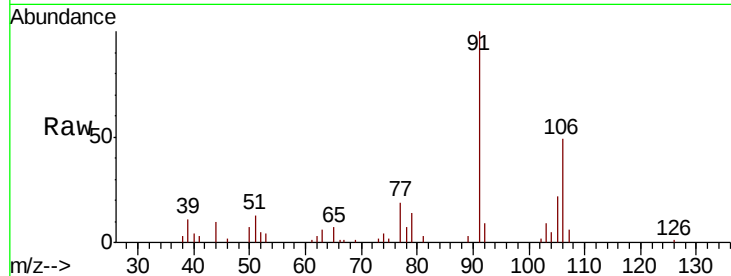
BFQW0

Tot Ion:106 Resp: 6492

Ion Ratio Lower Upper

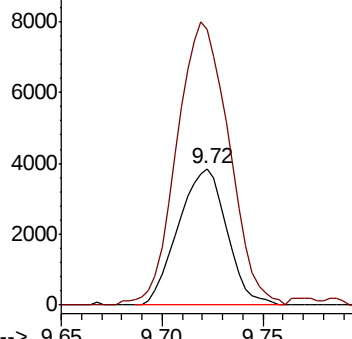
106 100

91 202.2 138.9 257.9

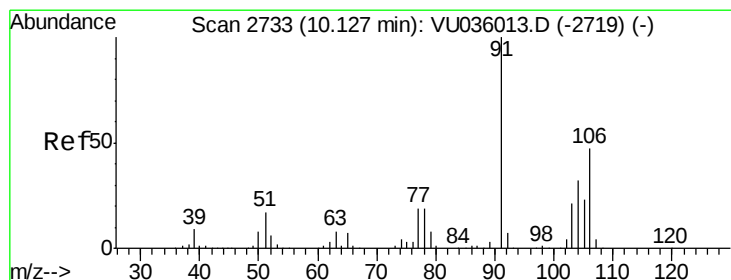
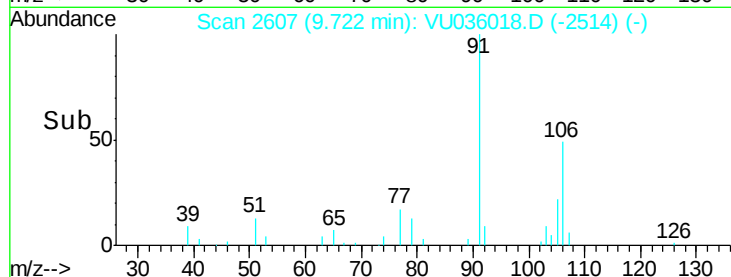


Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



Time-->



#54

o-Xylene

Concen: 0.170 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU036018.D

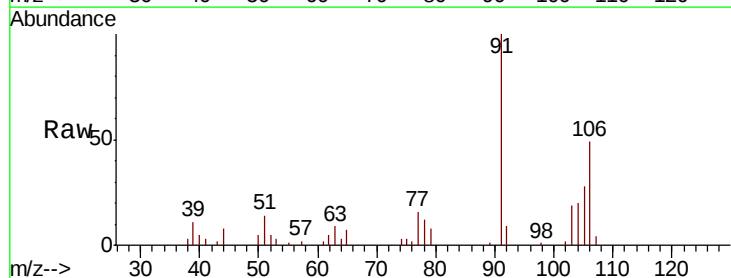
Acq: 06 Dec 2019 12:47

Tgt Ion:106 Resp: 5980

Ion Ratio Lower Upper

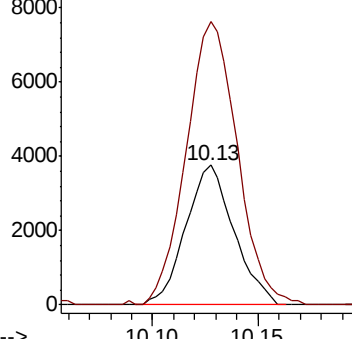
106 100

91 202.7 155.3 288.3

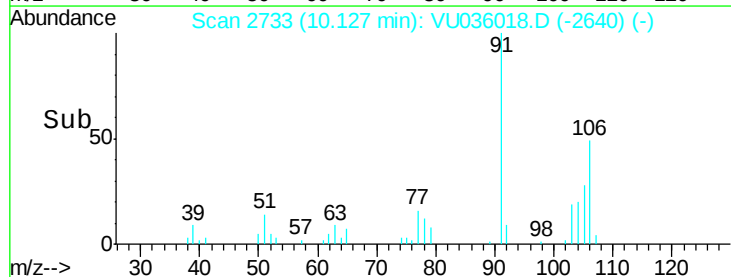


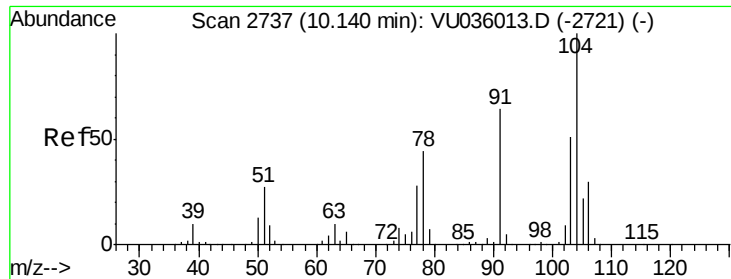
Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



Time-->





#55

Stvrene

Concen: 0.091 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

Instrument :

MSVOA_U

ClientSampleId :

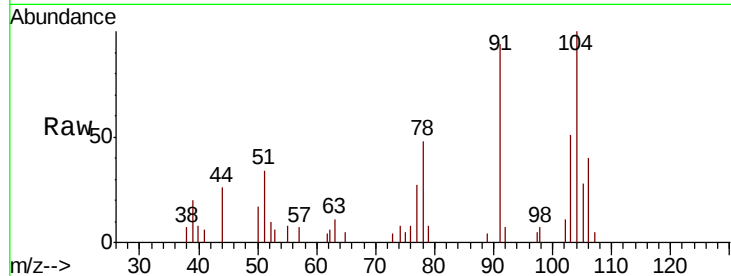
BFQW0

Tot Ion:104 Resp: 5369

Ion Ratio Lower Upper

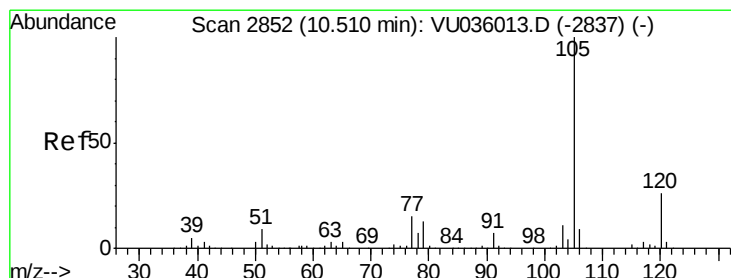
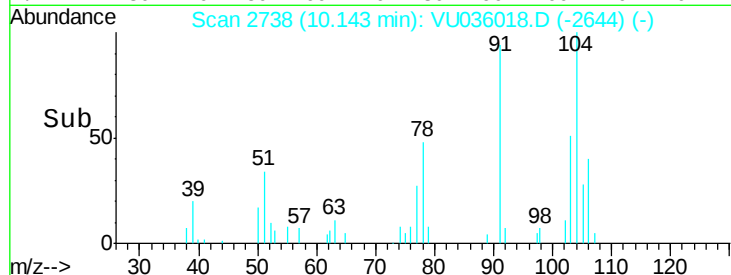
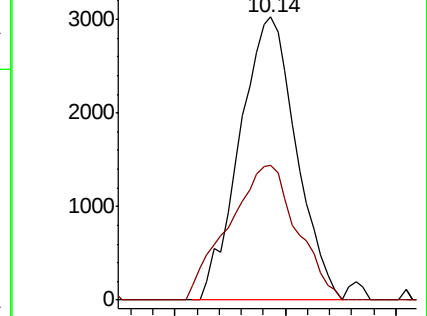
104 100

78 47.7 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



#56

Isopropylbenzene

Concen: 0.091 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU036018.D

Acq: 06 Dec 2019 12:47

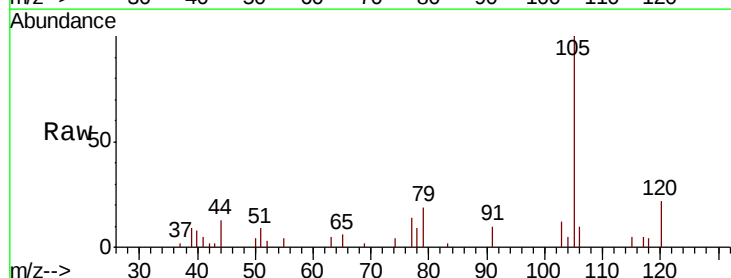
Tgt Ion:105 Resp: 8346

Ion Ratio Lower Upper

105 100

120 23.1 21.3 31.9

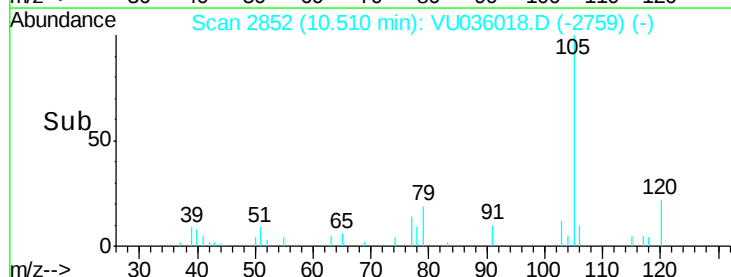
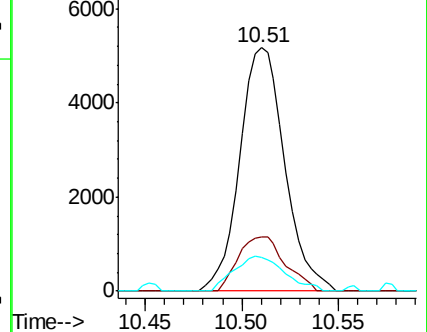
77 16.4 13.1 19.7

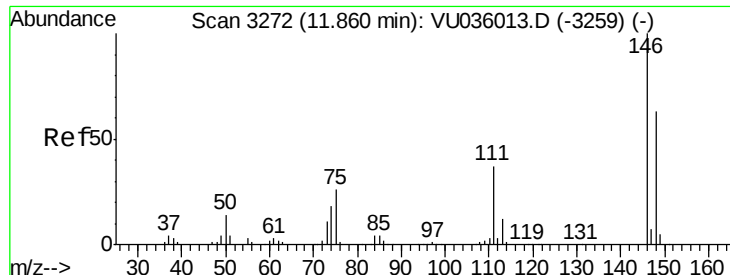


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0

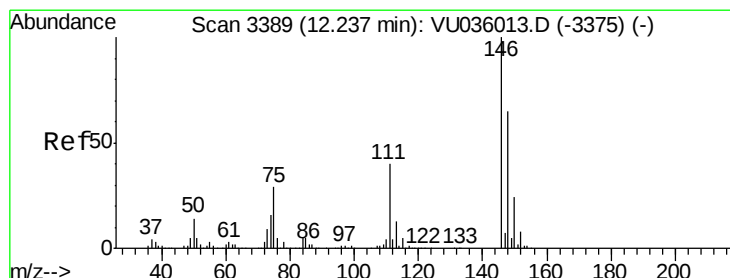
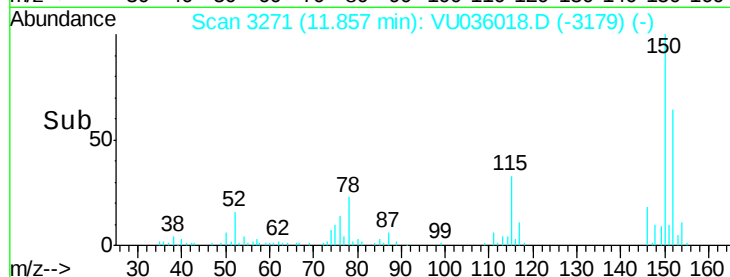
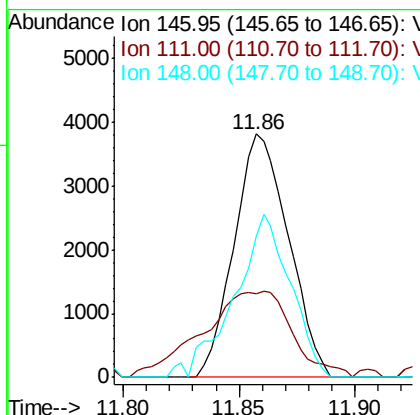
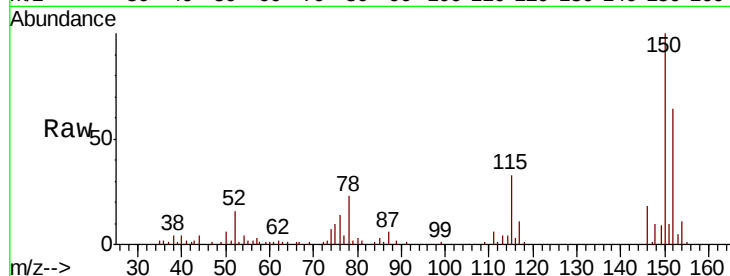




#63
 1,4-Dichlorobenzene
 Concen: 0.148 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW0

Tot Ion:146 Resp: 6214
 Ion Ratio Lower Upper
 146 100
 111 34.6 28.5 52.9
 148 58.3 44.4 82.5



#65
 1,2-Dichlorobenzene
 Concen: 0.170 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU036018.D
 Acq: 06 Dec 2019 12:47

Tgt Ion:146 Resp: 6874
 Ion Ratio Lower Upper
 146 100
 111 48.5 32.6 48.8
 148 61.3 50.9 76.3

