

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120619\
 Data File : VU036029.D
 Acq On : 06 Dec 2019 17:43
 Operator : JC/SP
 Sample : K6168-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE38

Quant Time: Dec 09 09:11:15 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	290196	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	296521	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	86663	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	106320	3.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.20%
7) Chloroethane-d5	1.93	69	122834	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.59	63	166114	3.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.00%
20) 2-Butanone-d5	4.68	46	274037	46.78	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.56%
24) Chloroform-d	5.11	84	197905	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
26) 1,2-Dichloroethane-d4	5.74	65	105326	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
32) Benzene-d6	5.77	84	377566	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.00%
36) 1,2-Dichloropropane-d6	6.73	67	120438	4.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.80%
41) Toluene-d8	7.93	98	315045	3.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.00%
43) trans-1,3-Dichloropropene-	8.21	79	41263	3.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.80%
46) 2-Hexanone-d5	8.67	63	235616	52.16	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.32%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	104977	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	89574	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

					Ovalue
3) Chloromethane	1.54	50	3664	0.107 ug/L	87
9) Trichlorofluoromethane	2.16	101	7141	0.175 ug/L #	83
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	8758	0.393 ug/L #	93
12) 1,1-Dichloroethene	2.61	96	76582	3.682 ug/L	84
13) Acetone	2.66	43	5621	1.061 ug/L	83
17) Methyl tert-butyl Ether	3.41	73	124525	2.556 ug/L	99
19) 1,1-Dichloroethane	3.92	63	96156	2.234 ug/L	98
22) cis-1,2-Dichloroethene	4.72	96	387882	16.672 ug/L	90
25) Chloroform	5.14	83	25251	0.581 ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	28427	0.793 ug/L	96
33) Benzene	5.82	78	15581	0.167 ug/L	100
34) Trichloroethene	6.58	95	6188186	262.426 ug/L	94
45) 1,1,2-Trichloroethane	8.44	97	4803	0.279 ug/L	98
47) Tetrachloroethene	8.59	164	6917293	360.924 ug/L	95
51) Chlorobenzene	9.47	112	7002	0.115 ug/L	98
54) o-Xylene	10.13	106	3722	0.107 ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	3517	0.123 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

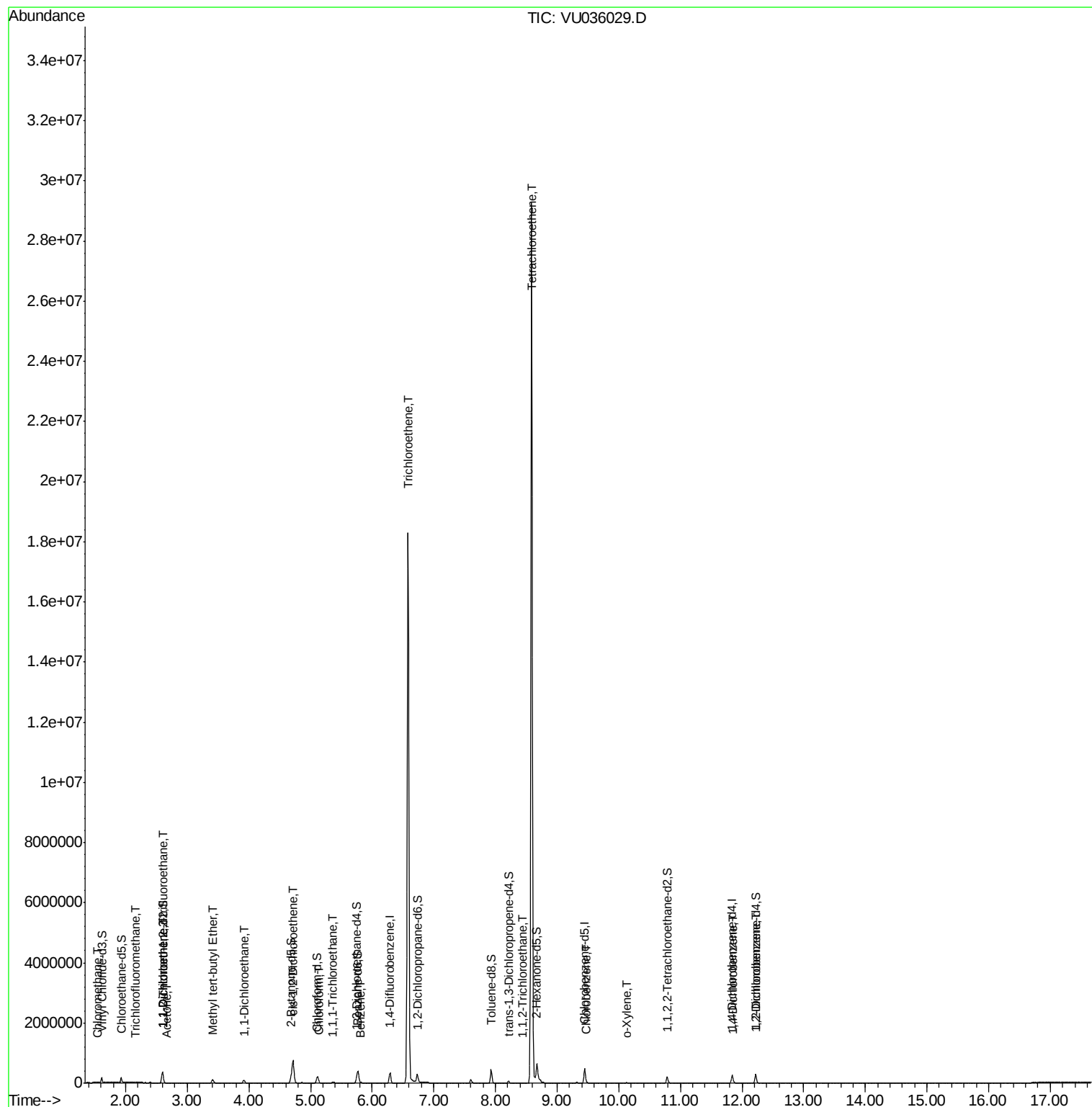
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.24	146	2941	0.107	ug/L	95

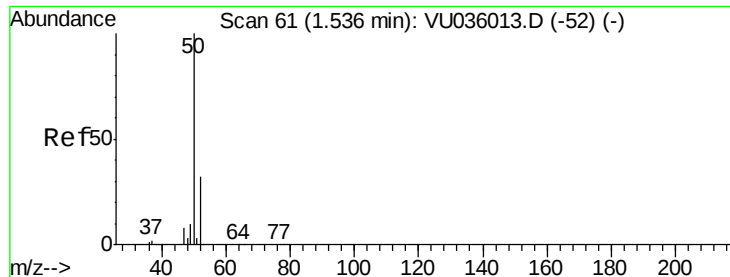
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.107 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

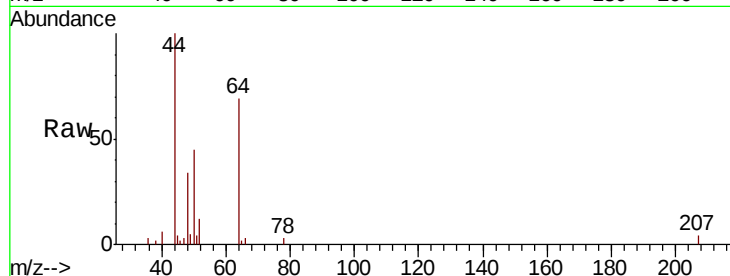
BFE38

Tot Ion: 50 Resp: 3664

Ion Ratio Lower Upper

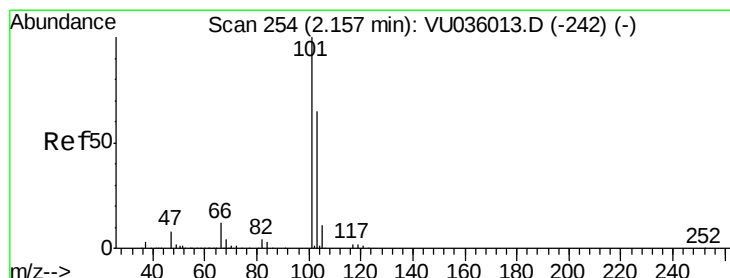
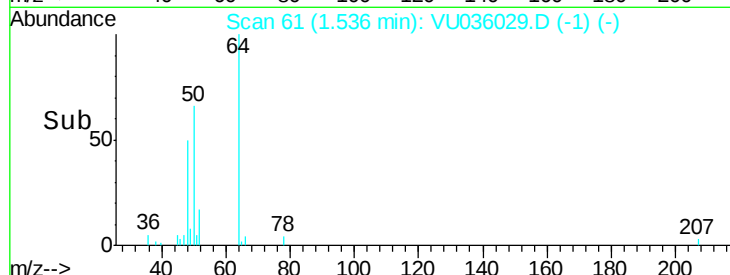
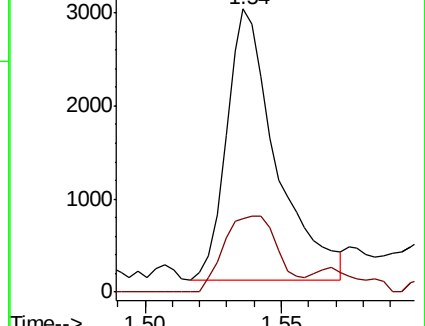
50 100

52 25.9 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036029.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU036029.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.175 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036029.D

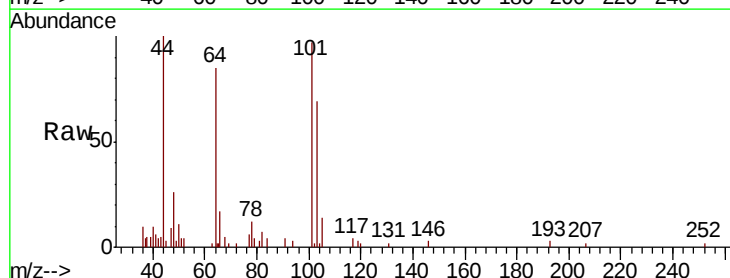
Acq: 06 Dec 2019 17:43

Tgt Ion: 101 Resp: 7141

Ion Ratio Lower Upper

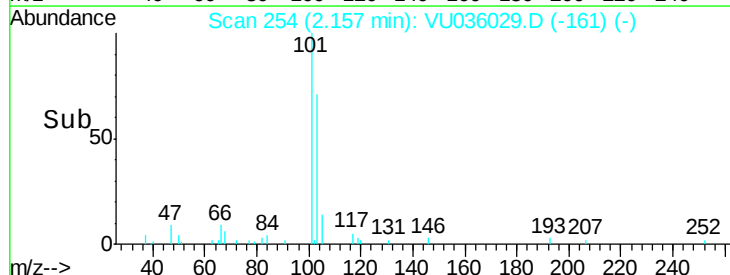
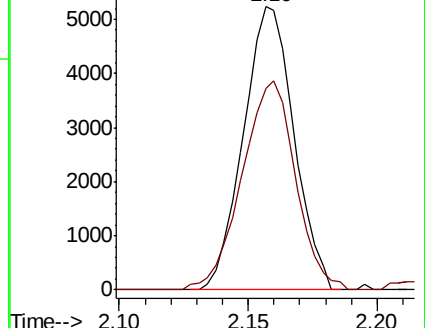
101 100

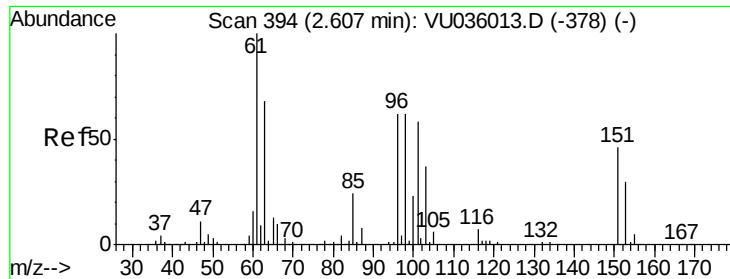
103 78.3 51.8 77.8#



Abundance Ion 101.00 (100.70 to 101.70): VU036029.D (-161) (-)

Ion 103.00 (102.70 to 103.70): VU036029.D (-161) (-)





#10

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

Concen: 0.393 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

BFE38

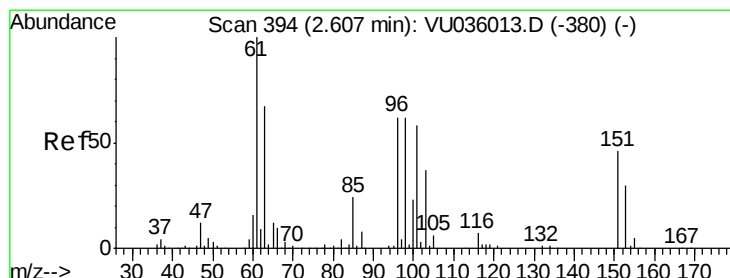
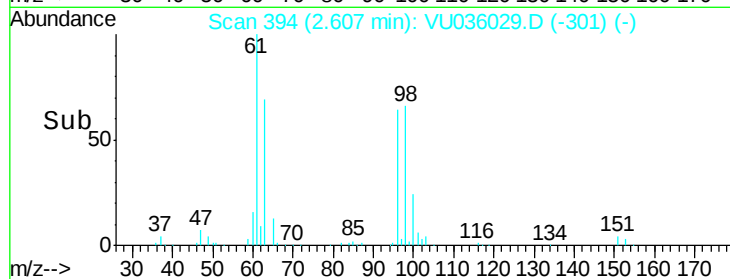
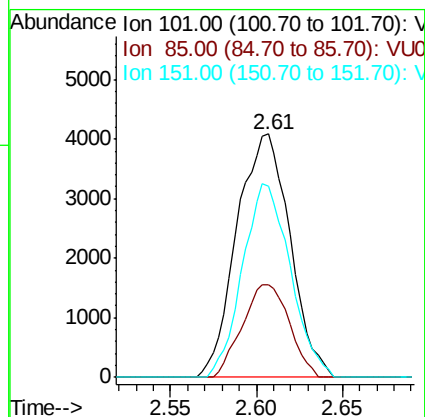
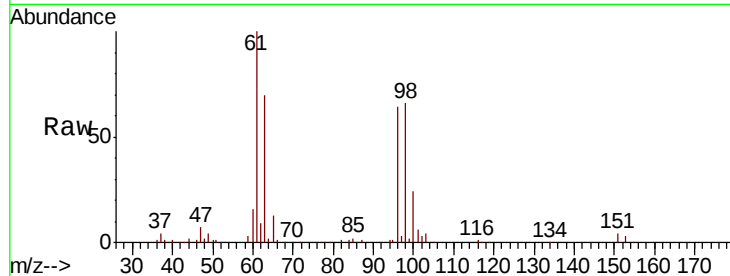
Tot Ion:101 Resp: 8758

Ion Ratio Lower Upper

101 100

85 33.7 35.5 53.3#

151 71.5 57.5 86.3



#12

1,1-Dichloroethene

Concen: 3.682 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

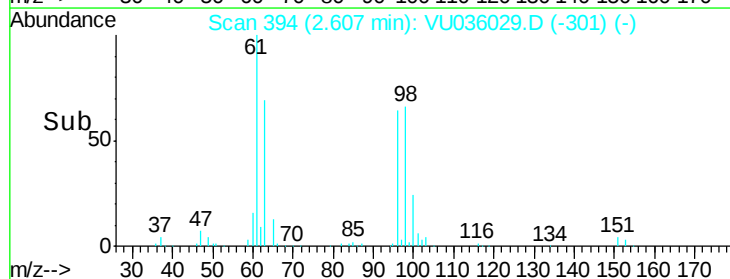
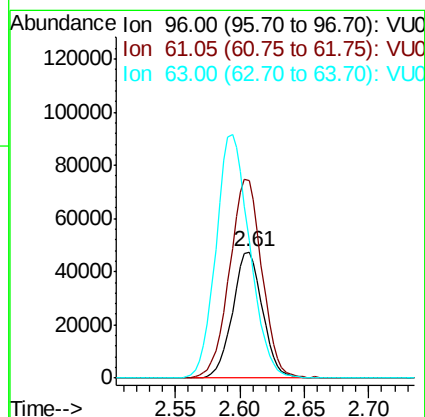
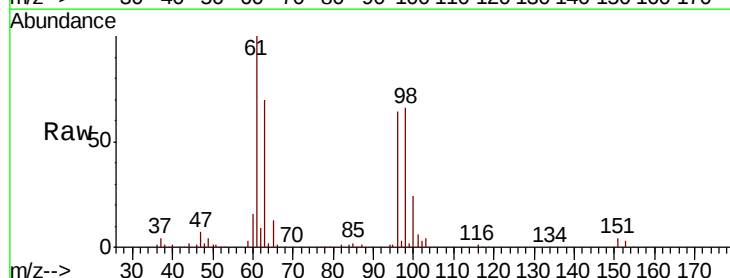
Tgt Ion: 96 Resp: 76582

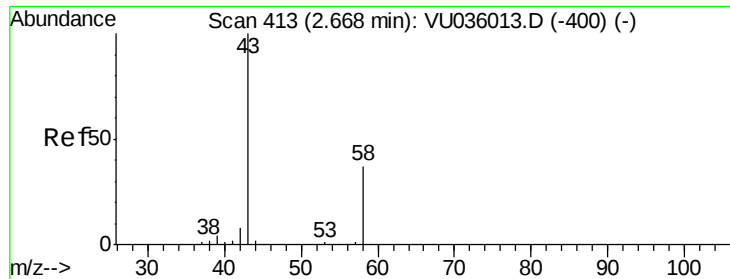
Ion Ratio Lower Upper

96 100

61 156.4 127.1 236.1

63 108.8 86.0 159.8





#13

Acetone

Concen: 1.061 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Instrument :

MSVOA_U

ClientSampled :

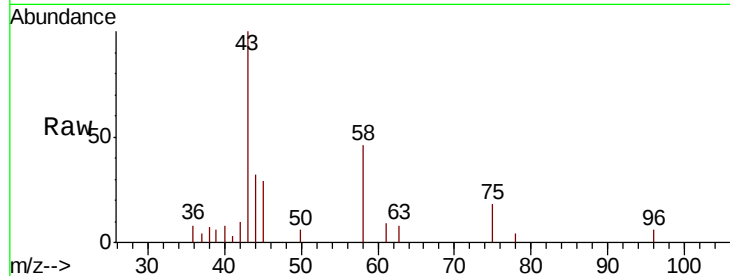
BFE38

Tot Ion: 43 Resp: 5621

Ion Ratio Lower Upper

43 100

58 44.2 0.0 68.6



Abundance Ion 43.05 (42.75 to 43.75): VU036029.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU036029.D (-320) (-)

2.66

3000

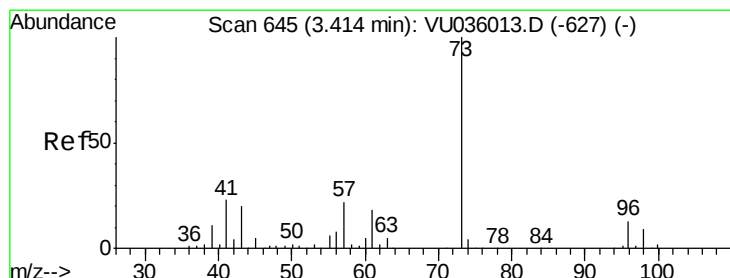
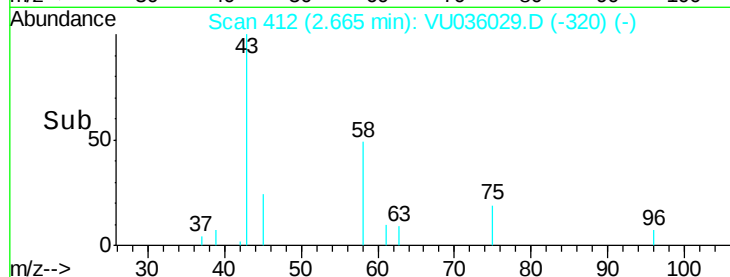
2000

1000

0

2.60 2.65 2.70

Time-->



#17

Methyl tert-butyl Ether

Concen: 2.556 ug/L

RT: 3.41 min Scan# 645

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

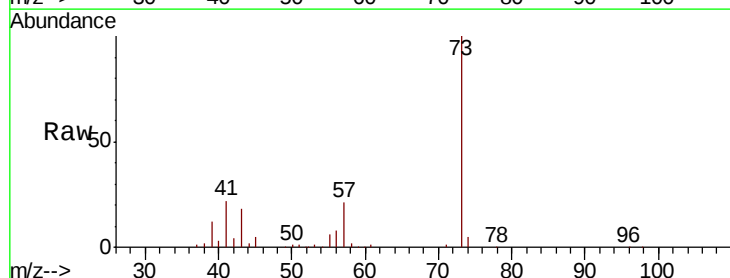
Tgt Ion: 73 Resp: 124525

Ion Ratio Lower Upper

73 100

43 20.3 15.9 23.9

57 22.7 18.8 28.2



Abundance Ion 73.10 (72.80 to 73.80): VU036029.D (-552) (-)

Ion 43.05 (42.75 to 43.75): VU036029.D (-552) (-)

Ion 57.10 (56.80 to 57.80): VU036029.D (-552) (-)

3.41

60000

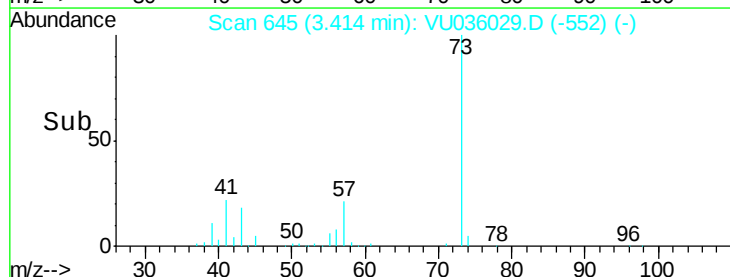
40000

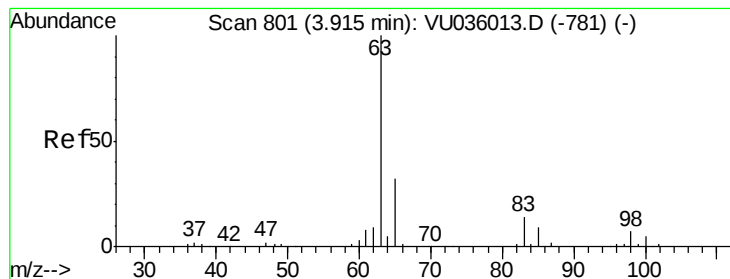
20000

0

3.30 3.35 3.40 3.45 3.50

Time-->





#19

1,1-Dichloroethane

Concen: 2.234 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

BFE38

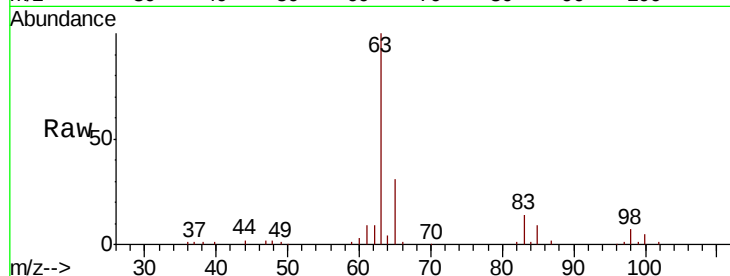
Tot Ion: 63 Resp: 96156

Ion Ratio Lower Upper

63 100

65 30.8 22.4 41.6

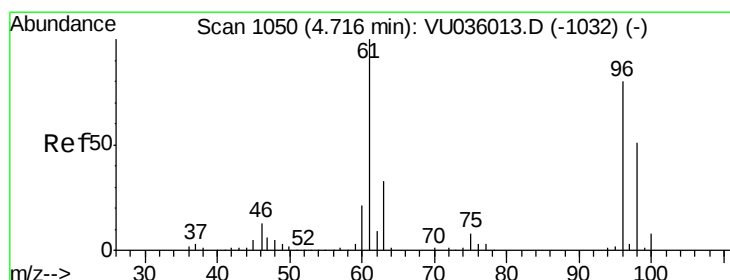
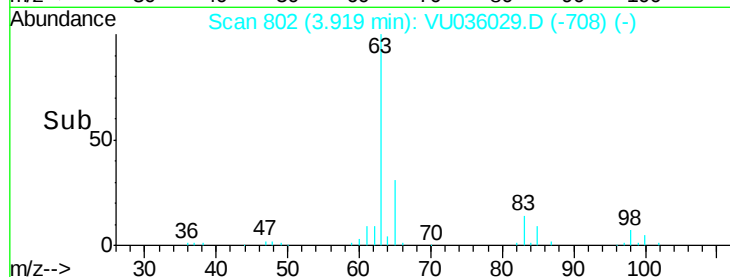
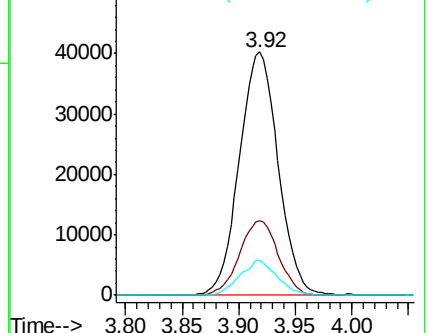
83 14.4 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VU036029.D (-781) (-)

Ion 65.10 (64.80 to 65.80): VU036029.D (-781) (-)

Ion 83.05 (82.75 to 83.75): VU036029.D (-781) (-)



#22

cis-1,2-Dichloroethene

Concen: 16.672 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

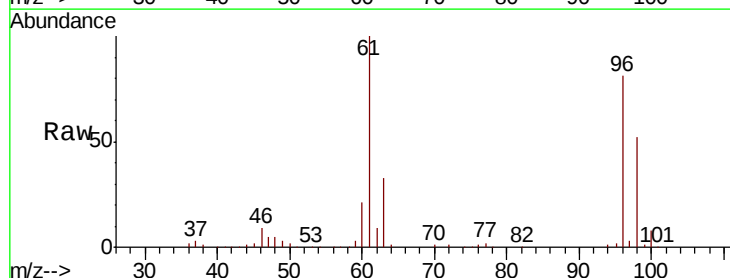
Tgt Ion: 96 Resp: 387882

Ion Ratio Lower Upper

96 100

61 124.2 95.7 177.7

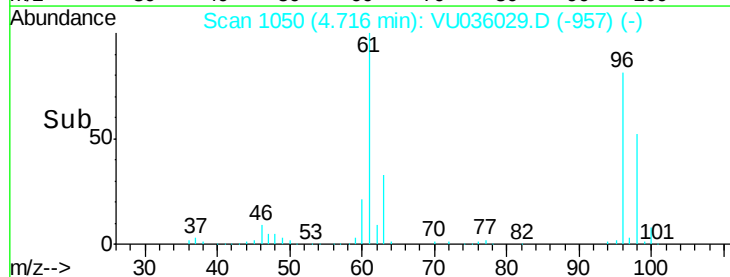
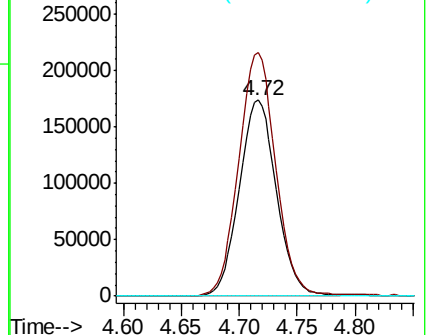
68 0.0 0.0 0.0

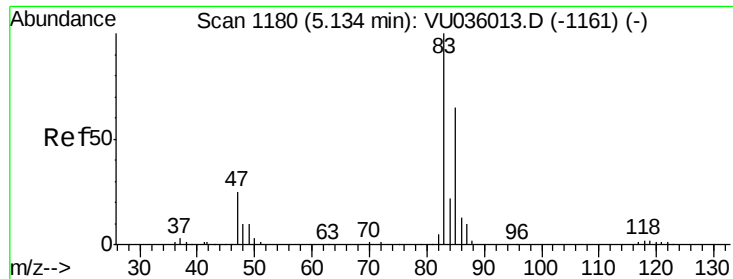


Abundance Ion 96.00 (95.70 to 96.70): VU036029.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036029.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036029.D (-957) (-)

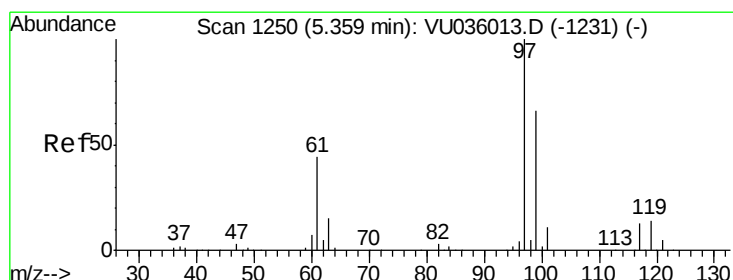
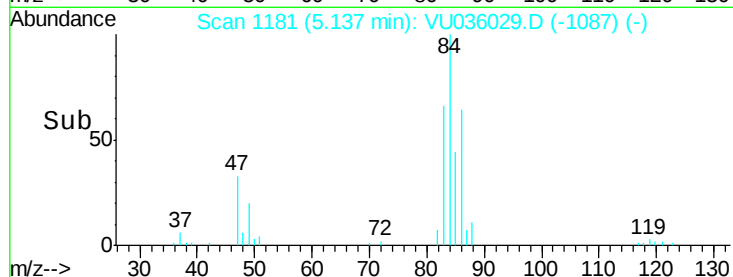
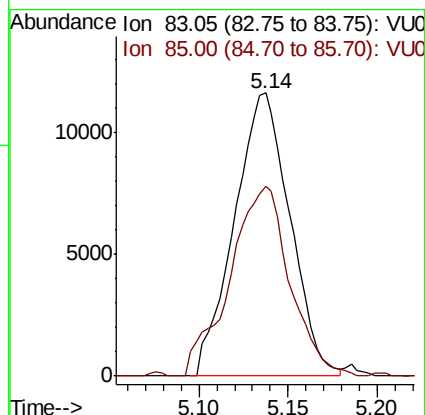
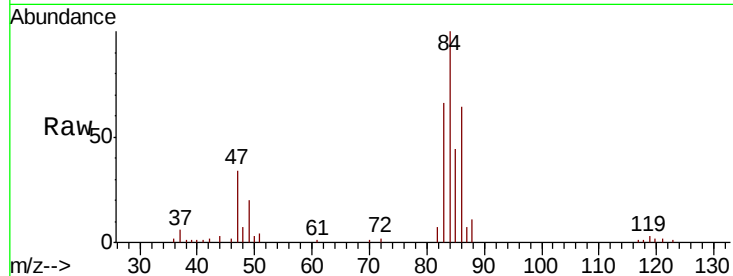




#25
Chloroform
Concen: 0.581 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036029.D
Acq: 06 Dec 2019 17:43

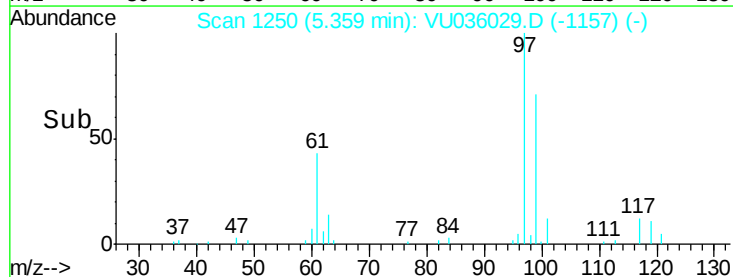
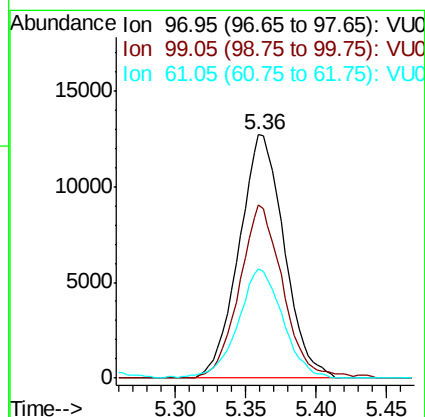
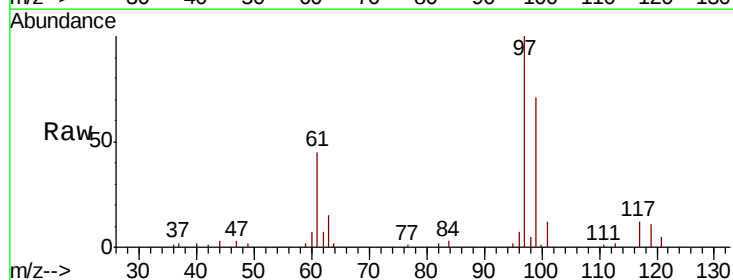
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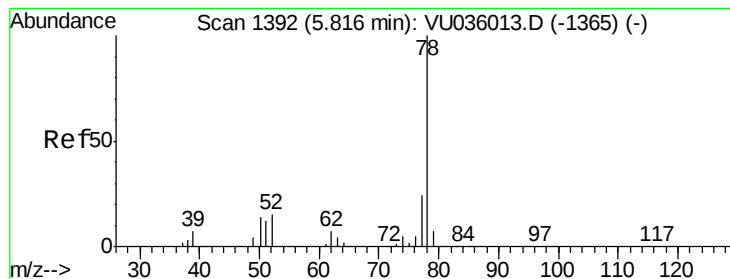
Tot Ion: 83 Resp: 25251
Ion Ratio Lower Upper
83 100
85 67.0 45.4 84.2



#29
1,1,1-Trichloroethane
Concen: 0.793 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036029.D
Acq: 06 Dec 2019 17:43

Tgt Ion: 97 Resp: 28427
Ion Ratio Lower Upper
97 100
99 68.4 51.8 77.8
61 44.5 37.6 56.4





#33

Benzene

Concen: 0.167 ug/L

RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

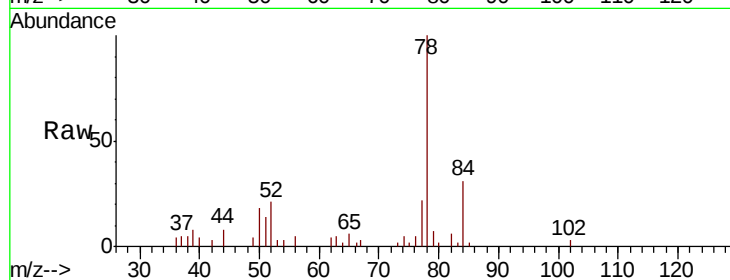
Instrument :

MSVOA_U

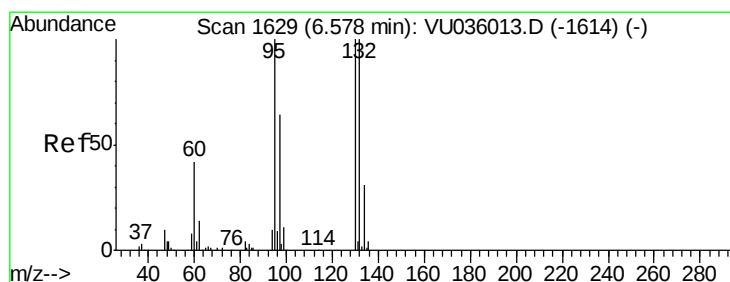
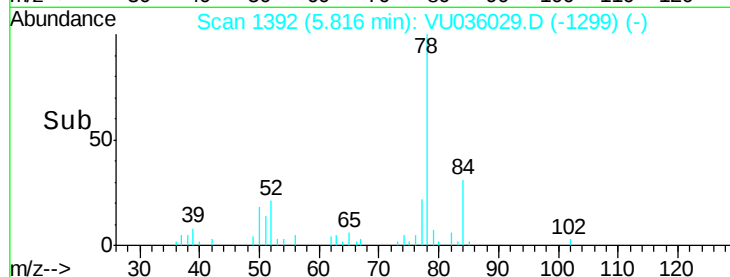
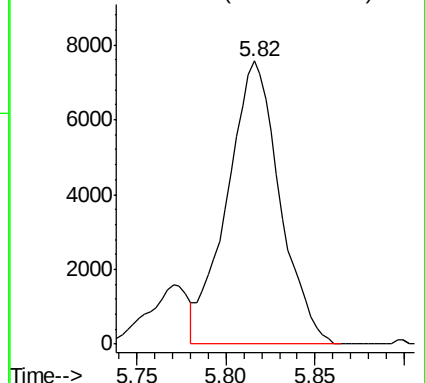
ClientSampleId :

BFE38

Tgt Ion: 78 Resp: 15581



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 262.426 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Tgt Ion: 95 Resp: 6188186

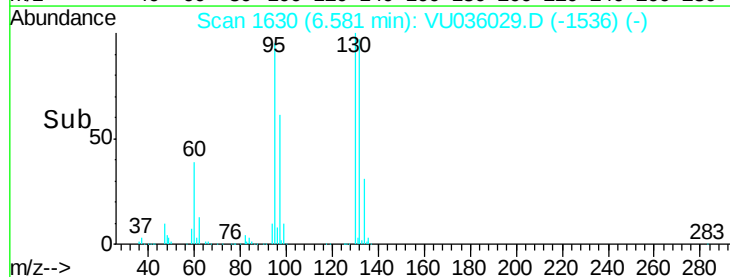
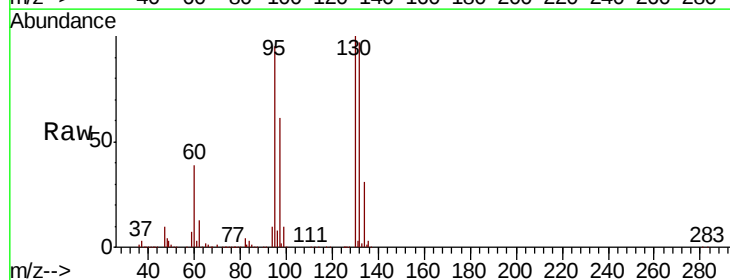
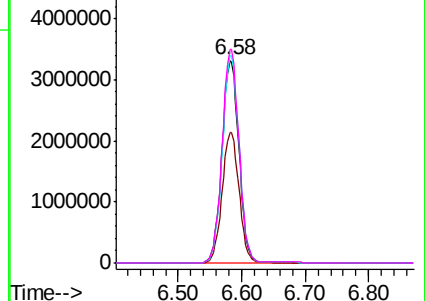
Ion	Ratio	Lower	Upper
95	100		
97	64.3	46.3	85.9
132	102.0	65.7	122.1
130	105.3	69.2	128.6

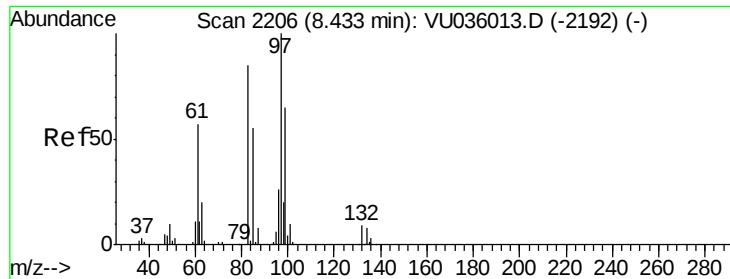
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

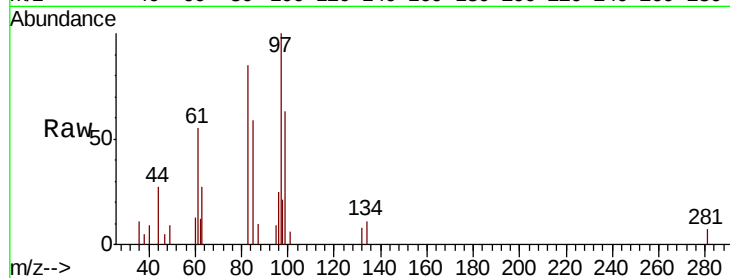




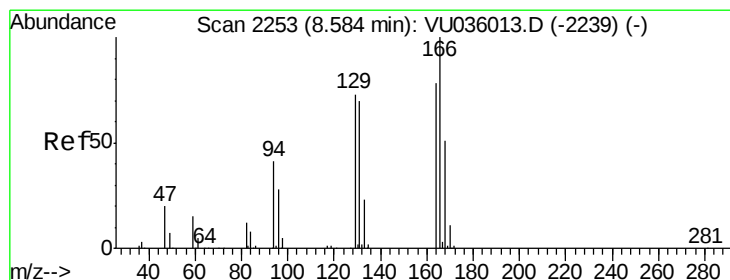
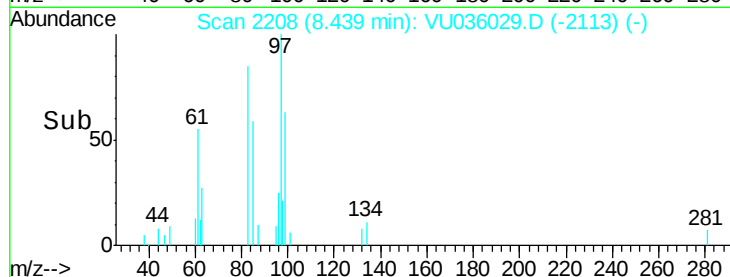
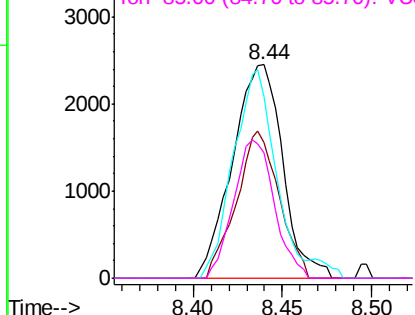
#45
 1,1,2-Trichloroethane
 Concen: 0.279 ug/L
 RT: 8.44 min Scan# 2208
 Delta R.T. 0.01 min
 Lab File: VU036029.D
 Acq: 06 Dec 2019 17:43

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE38

Tot Ion:	97	Resp:	4803
Ion	Ratio	Lower	Upper
97	100		
99	63.5	45.0	83.6
83	85.3	62.1	115.3
85	59.0	41.4	77.0

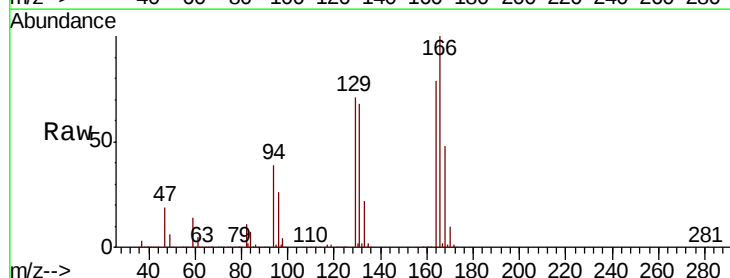


Abundance Ion 96.95 (96.65 to 97.65): VU036029.D (-2113) (-)
 Ion 99.05 (98.75 to 99.75): VU036029.D (-2113) (-)
 Ion 82.95 (82.65 to 83.65): VU036029.D (-2113) (-)
 Ion 85.00 (84.70 to 85.70): VU036029.D (-2113) (-)

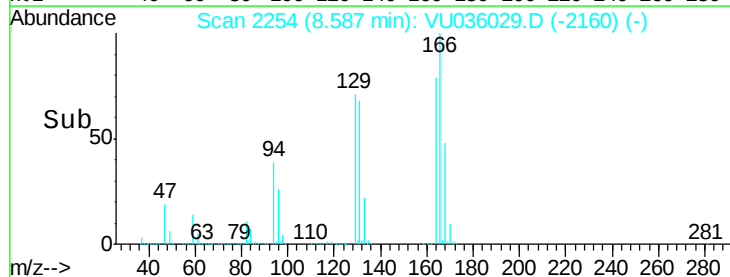
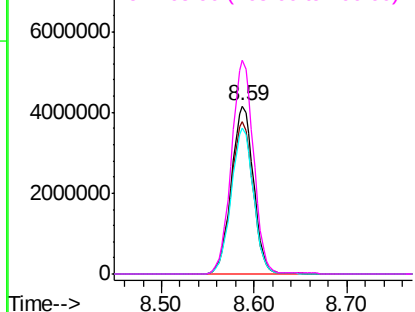


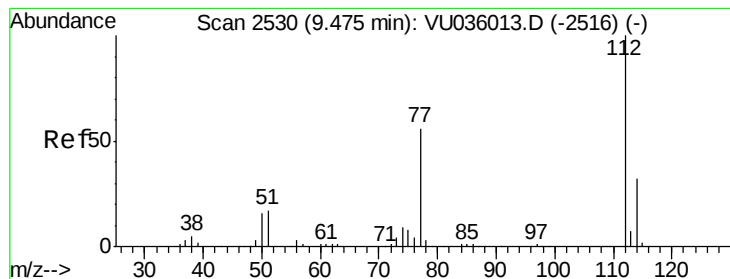
#47
 Tetrachloroethene
 Concen: 360.924 ug/L
 RT: 8.59 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VU036029.D
 Acq: 06 Dec 2019 17:43

Tgt Ion:	164	Resp:	6917293
Ion	Ratio	Lower	Upper
164	100		
129	90.5	67.9	126.1
131	87.1	64.1	119.1
166	127.3	92.6	172.0



Abundance Ion 163.90 (163.60 to 164.60): VU036029.D (-2160) (-)
 Ion 128.95 (128.65 to 129.65): VU036029.D (-2160) (-)
 Ion 130.95 (130.65 to 131.65): VU036029.D (-2160) (-)
 Ion 165.90 (165.60 to 166.60): VU036029.D (-2160) (-)





#51

Chlorobenzene

Concen: 0.115 ug/L

RT: 9.47 min Scan# 2530

Delta R.T. -0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

BFE38

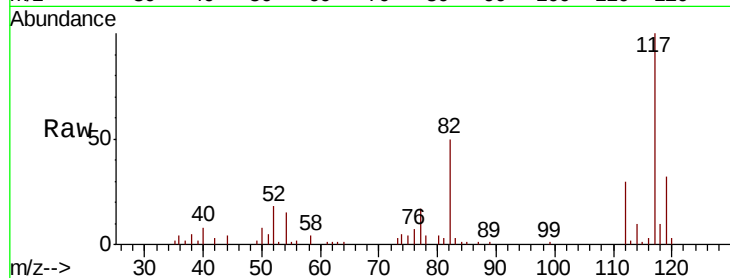
Tot Ion:112 Resp: 7002

Ion Ratio Lower Upper

112 100

114 33.1 22.5 41.7

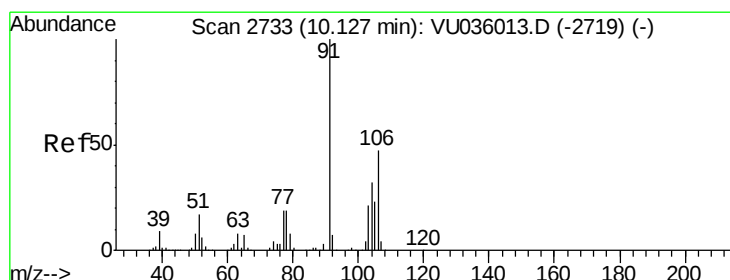
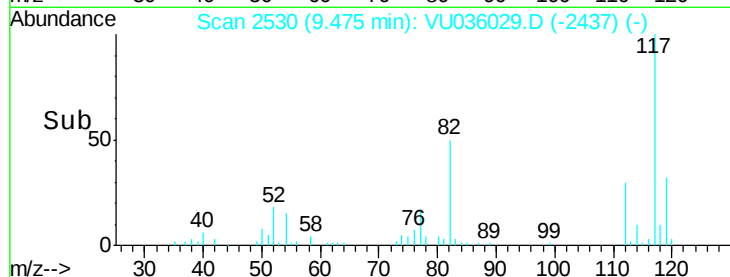
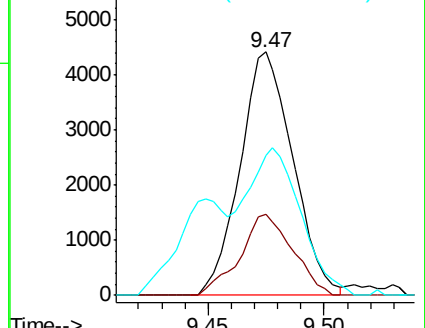
77 57.7 47.7 71.5



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): VU



#54

o-Xylene

Concen: 0.107 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU036029.D

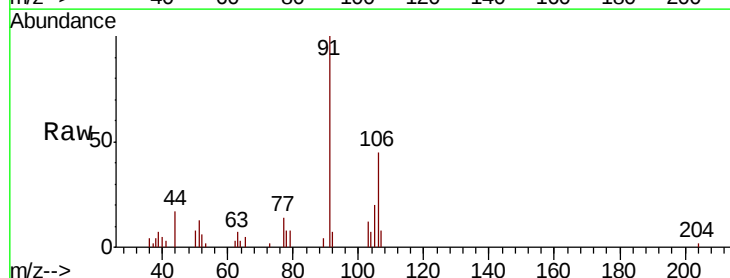
Acq: 06 Dec 2019 17:43

Tgt Ion:106 Resp: 3722

Ion Ratio Lower Upper

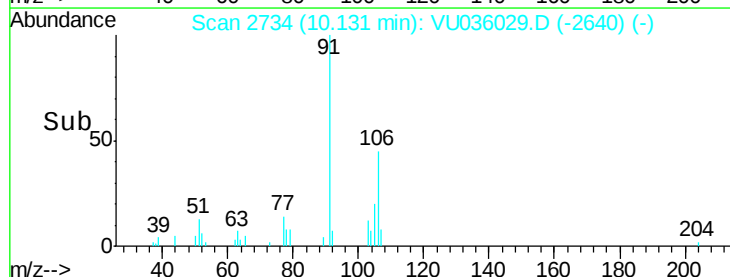
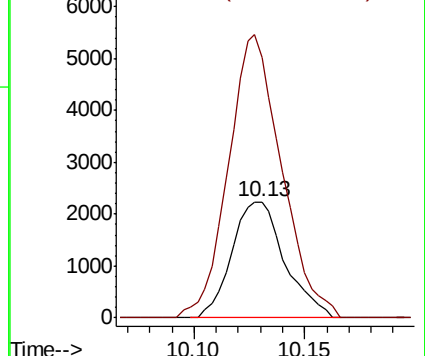
106 100

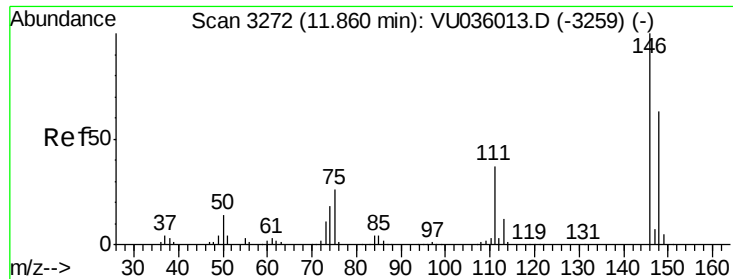
91 223.6 155.3 288.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU





#63

1,4-Dichlorobenzene

Concen: 0.123 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

Instrument :

MSVOA_U

ClientSampleId :

BFE38

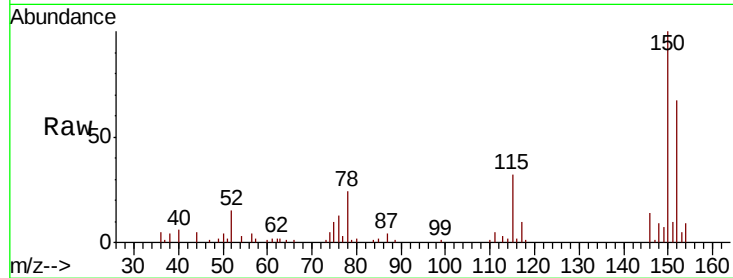
Tot Ion:146 Resp: 3517

Ion Ratio Lower Upper

146 100

111 35.7 28.5 52.9

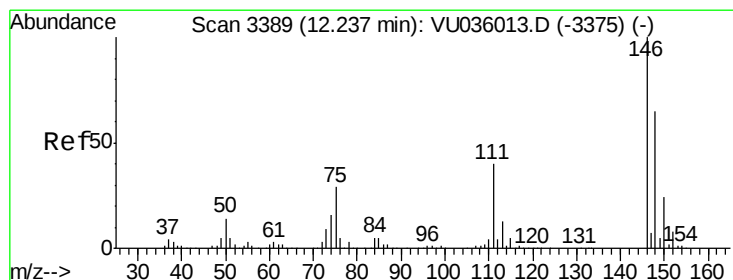
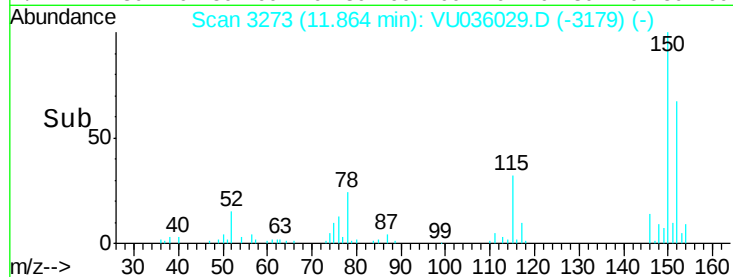
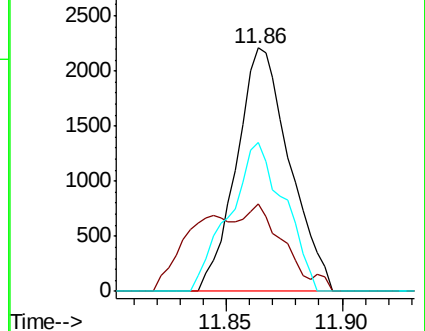
148 61.0 44.4 82.5



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: 0.107 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU036029.D

Acq: 06 Dec 2019 17:43

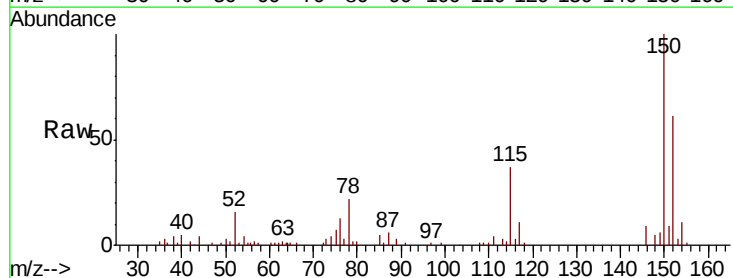
Tgt Ion:146 Resp: 2941

Ion Ratio Lower Upper

146 100

111 41.4 32.6 48.8

148 58.0 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

