

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036708.D
 Acq On : 10 Feb 2020 13:13
 Operator : JC/MD
 Sample : MDL03
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 11 03:34:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	255898	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	241449	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	104889	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	72660	42.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.14%
7) Chloroethane-d5	1.93	69	71464	45.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.32%
11) 1,1-Dichloroethene-d2	2.59	63	106740	33.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.26%
21) 2-Butanone-d5	4.68	46	159482	109.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.53%
24) Chloroform-d	5.11	84	143241	46.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.76%
26) 1,2-Dichloroethane-d4	5.75	65	103527	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
32) Benzene-d6	5.77	84	304737	48.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.73	67	102040	48.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.84%
41) Toluene-d8	7.93	98	273655	47.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.16%
43) trans-1,3-Dichloropropene-	8.21	79	46569	46.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.30%
47) 2-Hexanone-d5	8.67	63	126533	105.21	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.21%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	152542	49.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.24%
66) 1,2-Dichlorobenzene-d4	12.21	152	95408	50.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.14%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4237	2.396 ug/L	100
3) Chloromethane	1.54	50	5348	2.553 ug/L	100
5) Vinyl chloride	1.62	62	5228	2.317 ug/L #	59
6) Bromomethane	1.87	94	3239	2.290 ug/L	94
8) Chloroethane	1.95	64	3508	2.450 ug/L	92
9) Trichlorofluoromethane	2.16	101	6083	2.269 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4785	2.980 ug/L #	83
12) 1,1-Dichloroethene	2.61	96	4475	2.863 ug/L #	1
13) Acetone	2.66	43	10773	6.965 ug/L	99
14) Carbon disulfide	2.82	76	11136	2.384 ug/L	99
15) Methyl Acetate	2.99	43	5993	2.680 ug/L	96
16) Methylene chloride	3.08	84	5430	2.814 ug/L	93
17) trans-1,2-Dichloroethene	3.39	96	4058	2.440 ug/L	93
18) Methyl tert-butyl Ether	3.41	73	13758	2.383 ug/L	98
19) 1,1-Dichloroethane	3.92	63	7962	2.403 ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	2488	1.313 ug/L	100
22) 2-Butanone	4.77	43	9479	5.164 ug/L	82

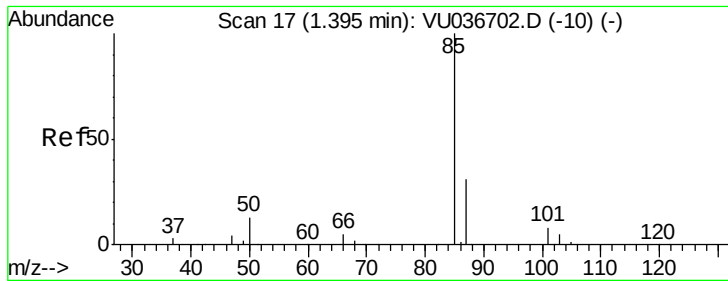
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
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 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.03	128	1972	2.221	ug/L	88
25) Chloroform	5.13	83	9666	2.999	ug/L	97
27) 1,2-Dichloroethane	5.84	62	6695	2.470	ug/L #	94
29) Cyclohexane	5.43	56	6962	2.245	ug/L	96
30) 1,1,1-Trichloroethane	5.36	97	6238	2.432	ug/L	98
31) Carbon tetrachloride	5.57	117	4669	2.248	ug/L	99
33) Benzene	5.82	78	17075	2.338	ug/L	100
34) Trichloroethene	6.58	95	4393	2.433	ug/L	96
35) Methylcyclohexane	6.80	83	7618	2.395	ug/L	98
37) 1,2-Dichloropropane	6.83	63	5028	2.553	ug/L #	91
38) Bromodichloromethane	7.15	83	5748	2.402	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	7142	2.270	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	14608	4.695	ug/L	99
42) Toluene	8.00	91	19422	2.461	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	6621	2.409	ug/L	95
45) 1,1,2-Trichloroethane	8.43	97	4155	2.313	ug/L	97
46) Tetrachloroethene	8.58	164	3281	2.589	ug/L	94
48) 2-Hexanone	8.72	43	12567	4.951	ug/L	95
49) Dibromochloromethane	8.84	129	4043	2.301	ug/L	96
50) 1,2-Dibromoethane	8.95	107	4436	2.350	ug/L #	98
51) Chlorobenzene	9.47	112	11224	2.362	ug/L	99
52) Ethylbenzene	9.60	91	19389	2.236	ug/L	98
53) m,p-Xylene	9.72	106	7256	2.268	ug/L	100
54) o-xylene	10.13	106	6730	2.124	ug/L	99
55) Styrene	10.14	104	10997	2.082	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.81	83	7474	2.309	ug/L #	97
59) Bromoform	10.32	173	2422	2.090	ug/L #	96
60) 1,2,3-Trichloropropane	10.85	75	6402	2.595	ug/L	97
61) Isopropylbenzene	10.51	105	18345	2.349	ug/L	98
62) 1,3,5-Trimethylbenzene	11.11	105	15041	2.246	ug/L	97
63) 1,2,4-Trimethylbenzene	11.49	105	14377	2.150	ug/L	96
64) 1,3-Dichlorobenzene	11.77	146	8052	2.451	ug/L	95
65) 1,4-Dichlorobenzene	11.86	146	7524	2.275	ug/L	93
67) 1,2-Dichlorobenzene	12.23	146	8331	2.505	ug/L	99
68) 1,2-Dibromo-3-chloropropan	13.01	75	1668	2.366	ug/L #	76
69) 1,3,5-Trichlorobenzene	13.24	180	4614	2.026	ug/L	95
70) 1,2,4-trichlorobenzene	13.85	180	3708	1.952	ug/L	96
71) Naphthalene	14.10	128	10379	1.550	ug/L	99
72) 1,2,3-Trichlorobenzene	14.34	180	3590	1.897	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 2.396 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

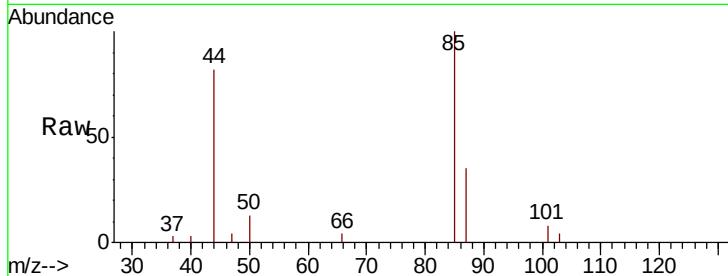
ClientSampleId :

Tot Ion: 85 Resp: 4237

Ion Ratio Lower Upper

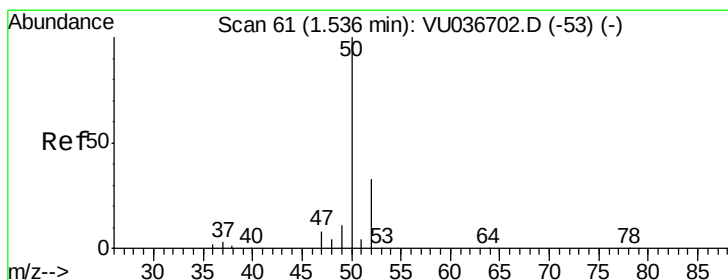
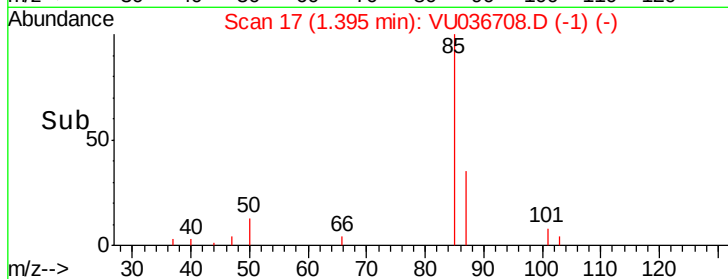
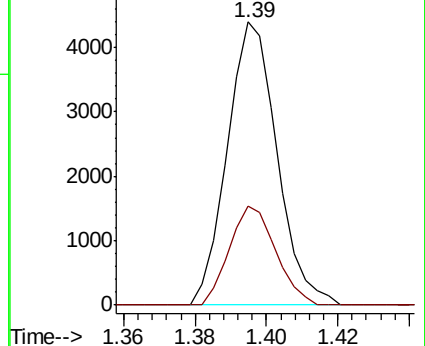
85 100

87 32.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036708.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036708.D (-10) (-)



#3

Chloromethane

Concen: 2.553 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036708.D

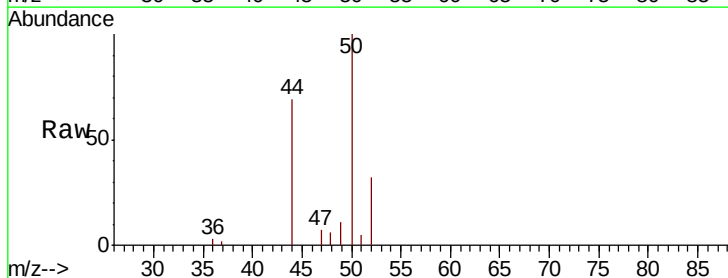
Acq: 10 Feb 2020 13:13

Tgt Ion: 50 Resp: 5348

Ion Ratio Lower Upper

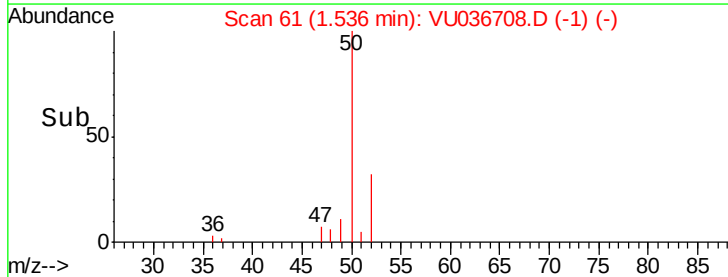
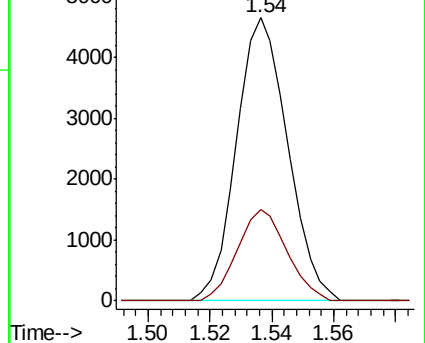
50 100

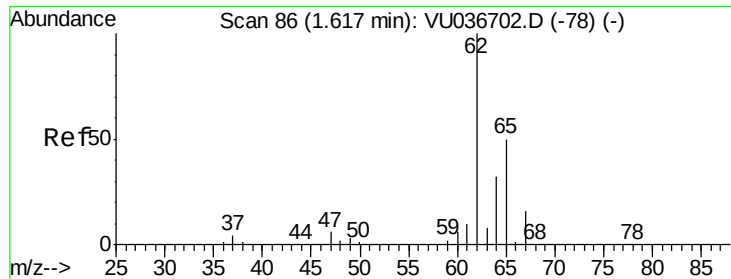
52 32.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036708.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036708.D (-53) (-)





#5

Vinyl chloride

Concen: 2.317 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

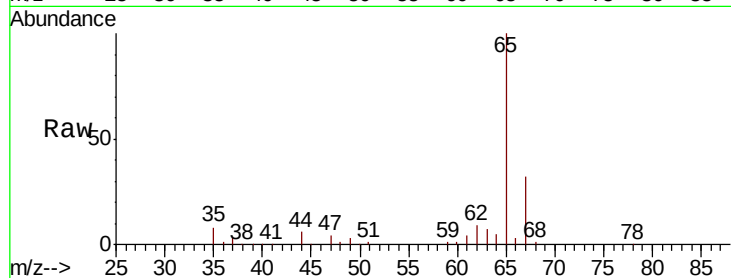
ClientSampled :

Tot Ion: 62 Resp: 5228

Ion Ratio Lower Upper

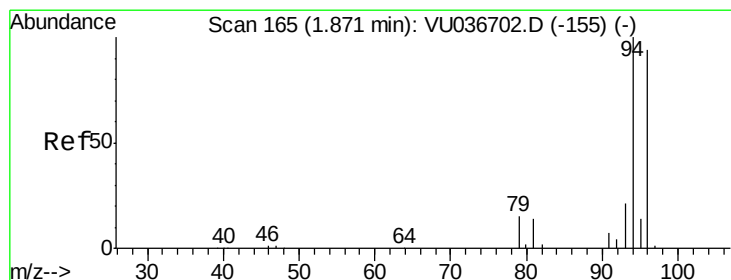
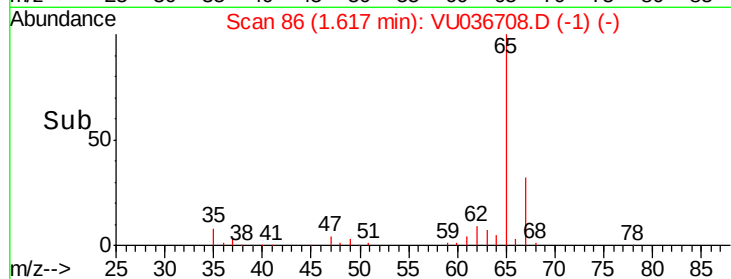
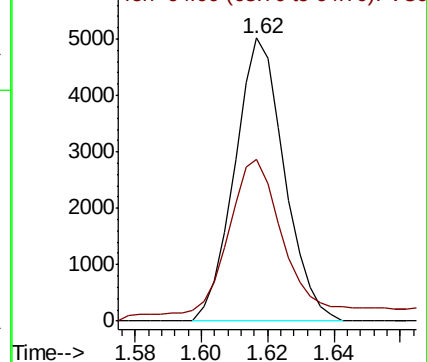
62 100

64 57.0 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.290 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036708.D

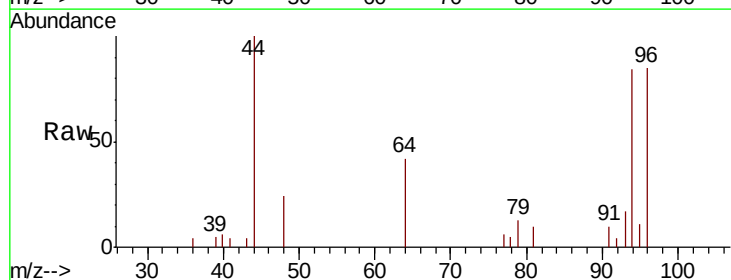
Acq: 10 Feb 2020 13:13

Tgt Ion: 94 Resp: 3239

Ion Ratio Lower Upper

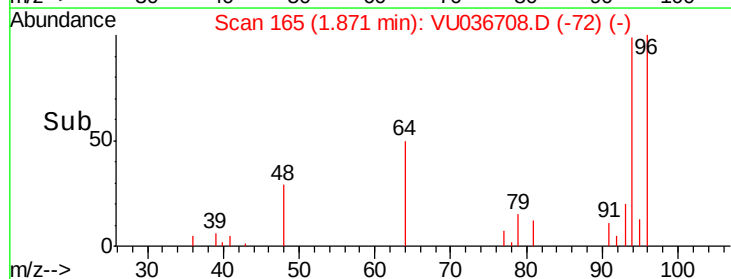
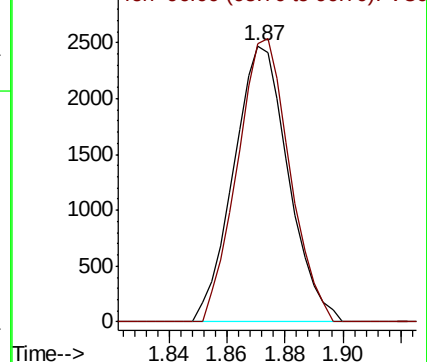
94 100

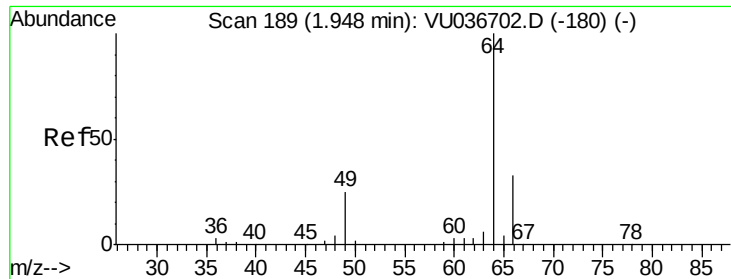
96 100.8 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

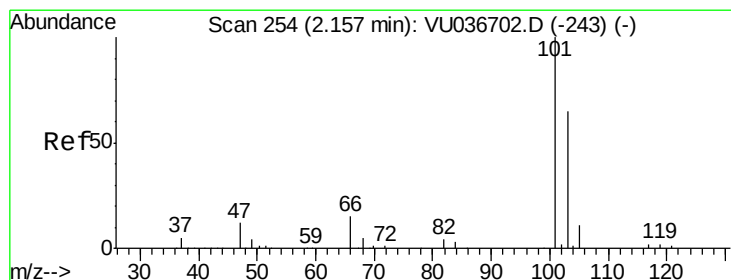
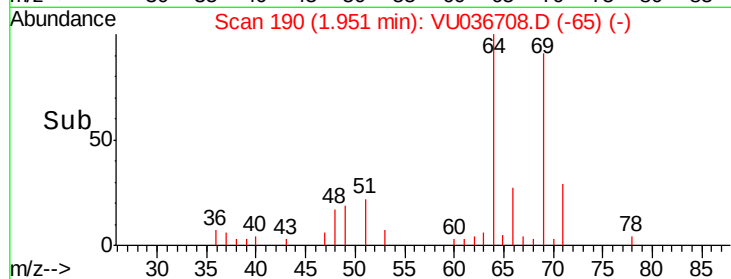
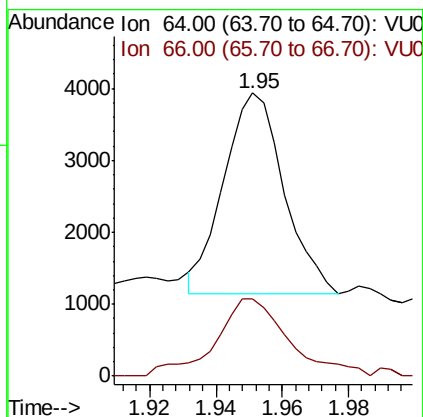
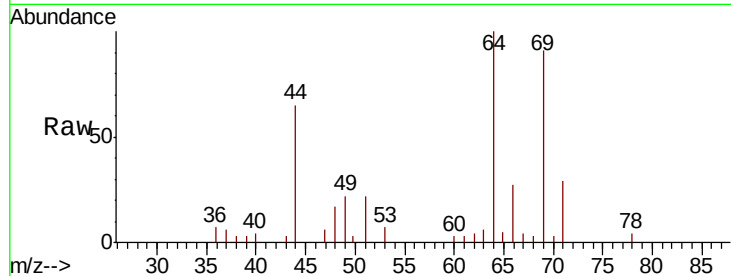




#8
 Chloroethane
 Concen: 2.450 ug/L
 RT: 1.95 min Scan# 190
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

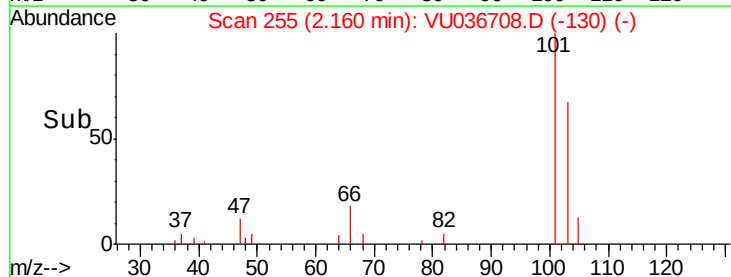
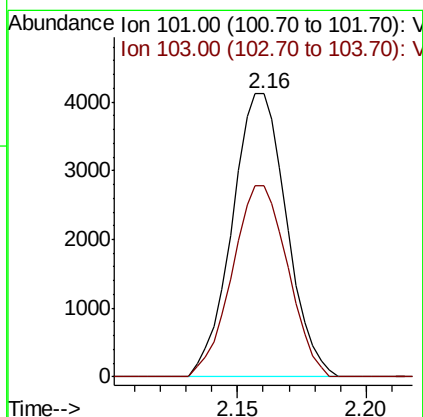
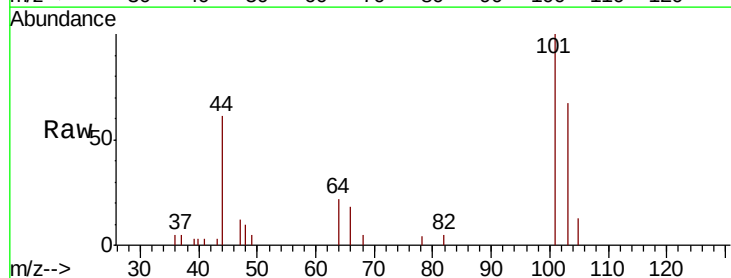
Instrument :
 MSVOA_U
 ClientSampleId :

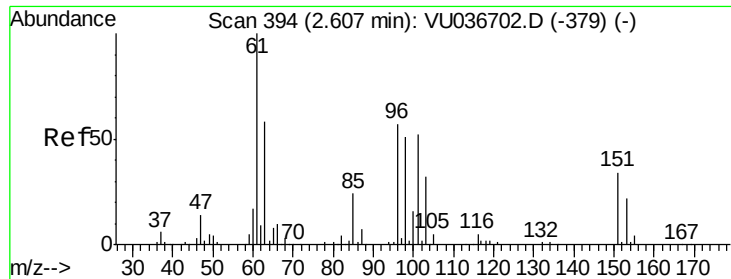
Tot Ion: 64 Resp: 3508
 Ion Ratio Lower Upper
 64 100
 66 27.3 22.1 41.1



#9
 Trichlorofluoromethane
 Concen: 2.269 ug/L
 RT: 2.16 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 101 Resp: 6083
 Ion Ratio Lower Upper
 101 100
 103 68.7 51.6 77.4





#10

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

Concen: 2.980 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

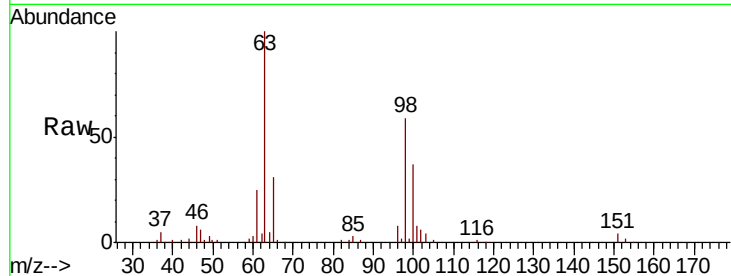
Tot Ion:101 Resp: 4785

Ion Ratio Lower Upper

101 100

85 33.7 36.5 54.7#

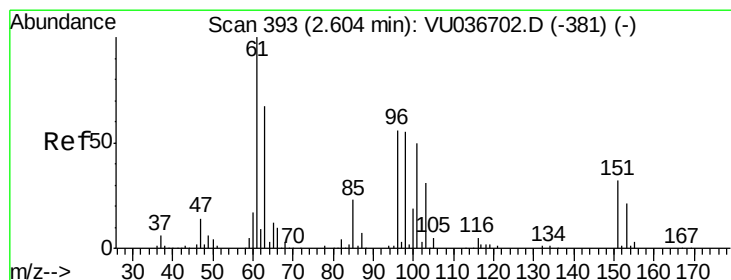
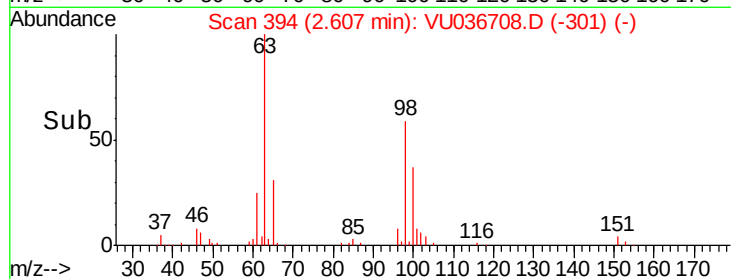
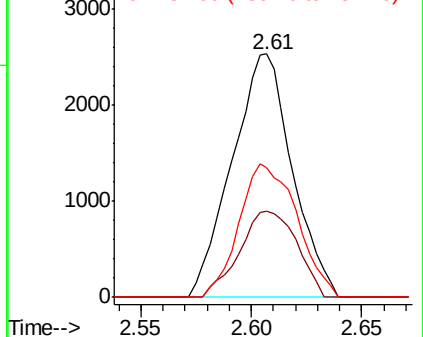
151 52.7 52.6 78.8



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



#12

1,1-Dichloroethene

Concen: 2.863 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

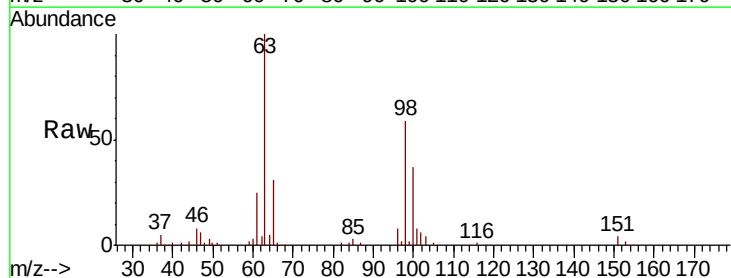
Tgt Ion: 96 Resp: 4475

Ion Ratio Lower Upper

96 100

61 308.2 124.4 231.0#

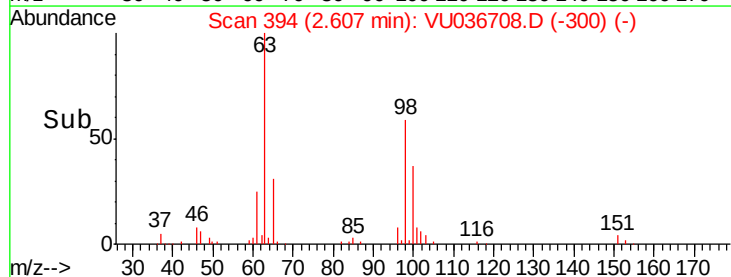
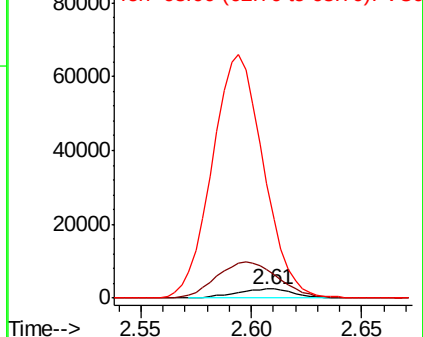
63 1256.5 83.4 155.0#

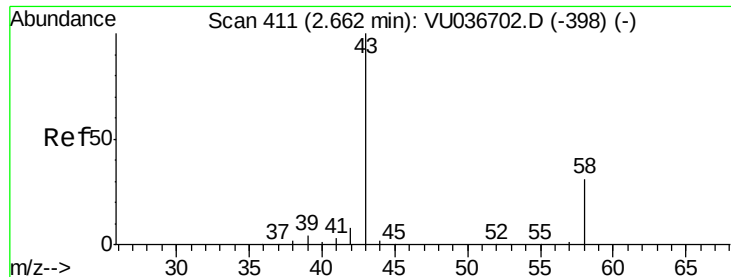


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.965 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

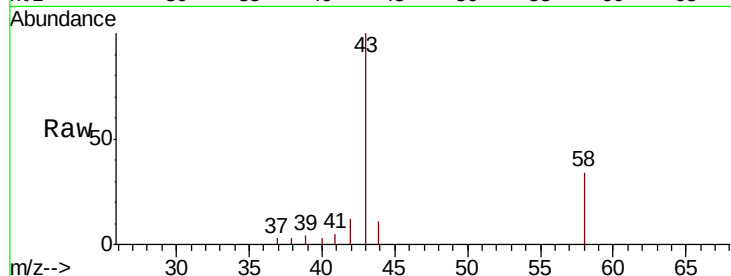
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 10773

Ion Ratio Lower Upper

43 100

58 31.4 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036708.D (-318) (-)

Ion 58.00 (57.70 to 58.70): VU036708.D (-318) (-)

2.66

6000

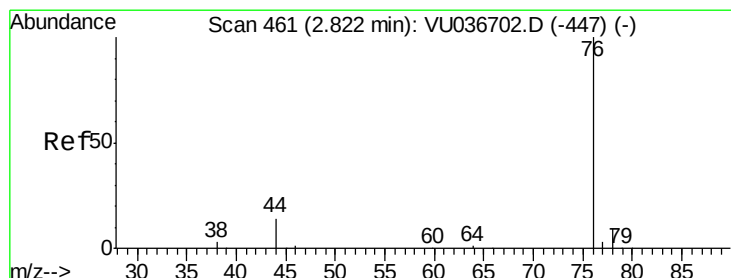
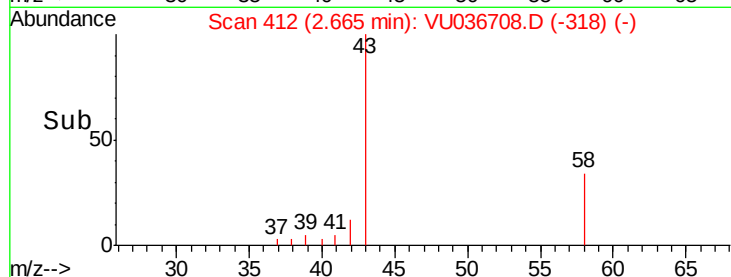
4000

2000

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 2.384 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036708.D

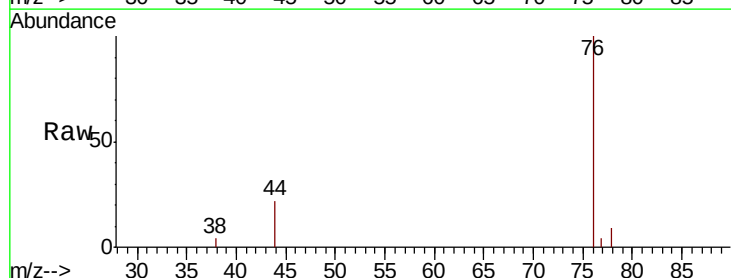
Acq: 10 Feb 2020 13:13

Tgt Ion: 76 Resp: 11136

Ion Ratio Lower Upper

76 100

78 8.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036708.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036708.D (-368) (-)

2.82

6000

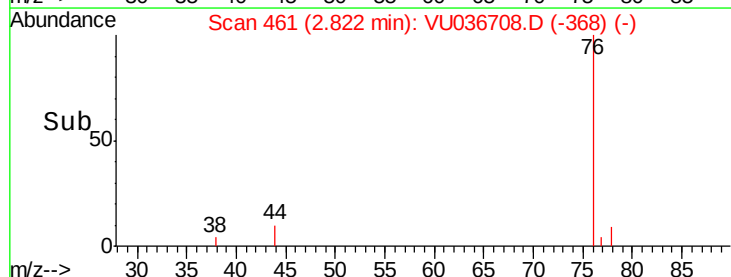
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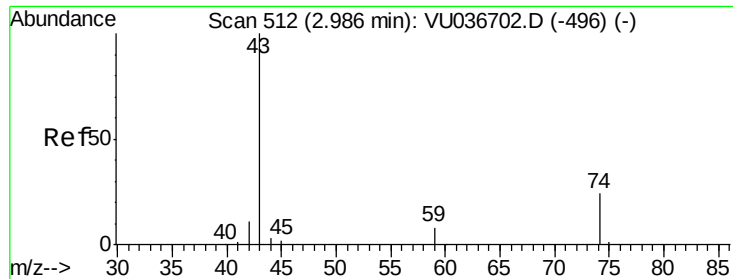
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0

Time-->

2.80 2.85

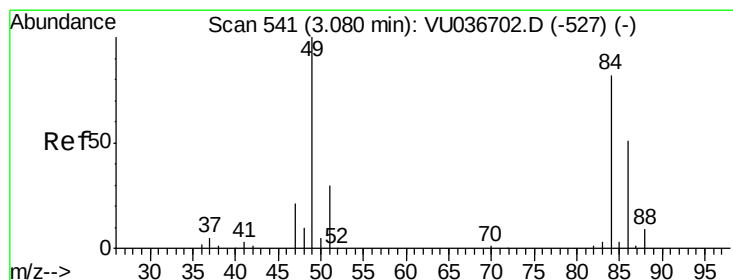
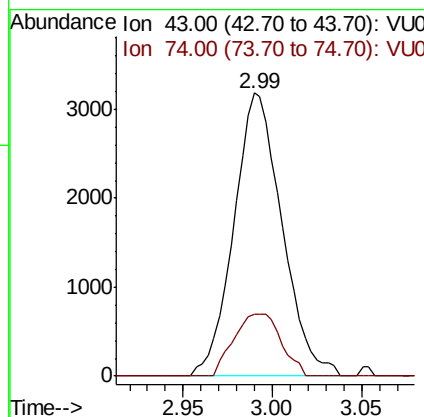
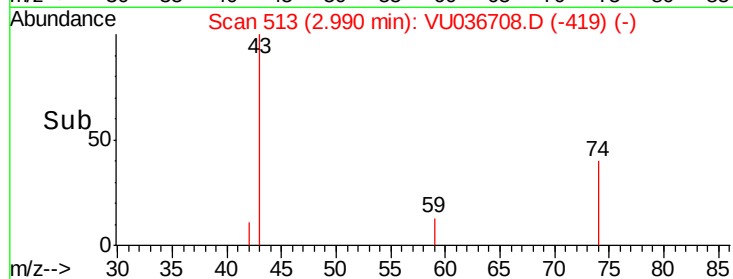
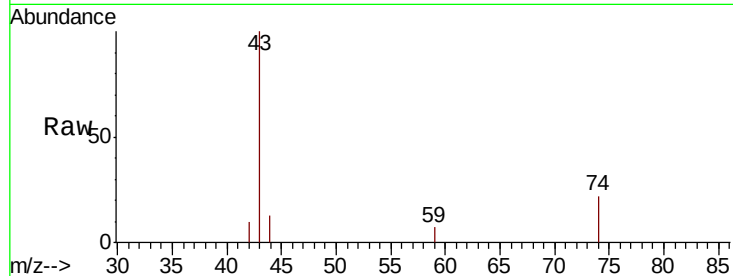




#15
Methvl Acetate
Concen: 2.680 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

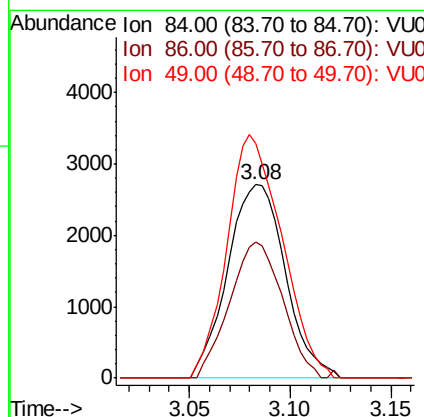
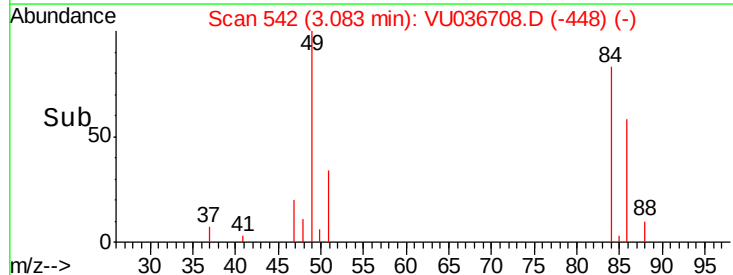
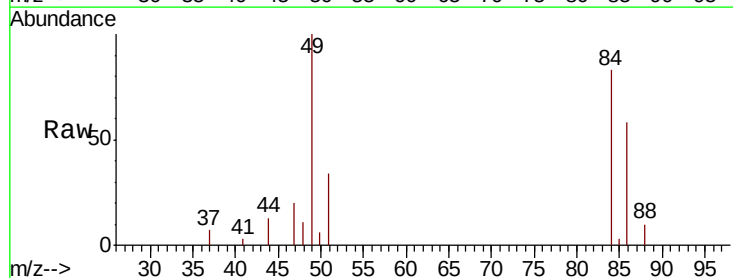
Instrument :
MSVOA_U
ClientSampleId :

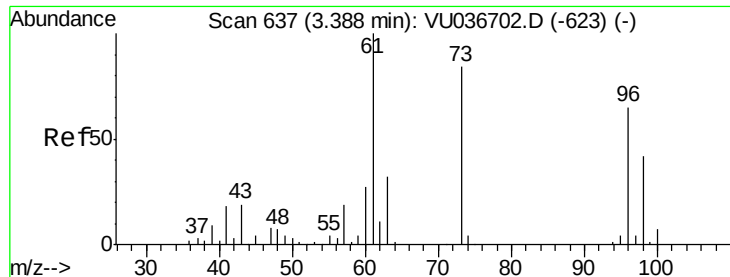
Tot Ion: 43 Resp: 5993
Ion Ratio Lower Upper
43 100
74 21.4 18.7 28.1



#16
Methylene chloride
Concen: 2.814 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion: 84 Resp: 5430
Ion Ratio Lower Upper
84 100
86 70.3 44.4 82.5
49 121.2 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.440 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

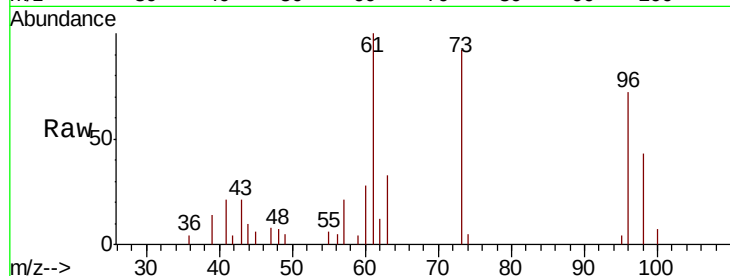
Tot Ion: 96 Resp: 4058

Ion Ratio Lower Upper

96 100

61 139.2 103.4 192.0

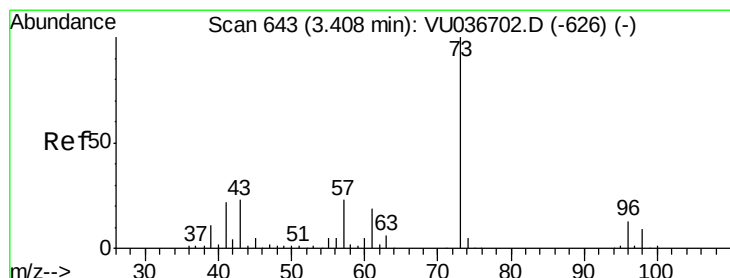
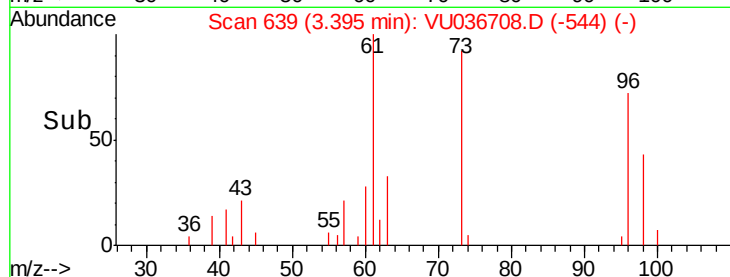
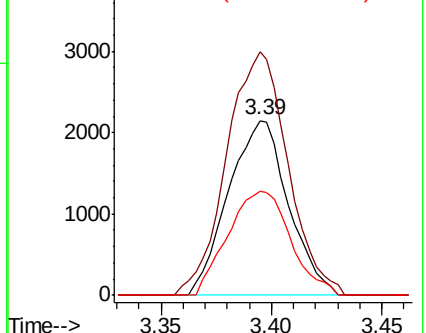
98 59.2 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU036708.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036708.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036708.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 2.383 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

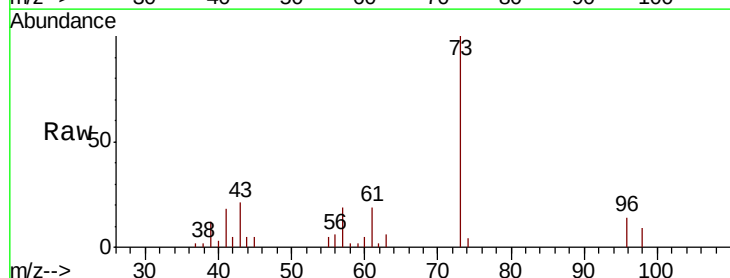
Tgt Ion: 73 Resp: 13758

Ion Ratio Lower Upper

73 100

43 22.3 18.6 28.0

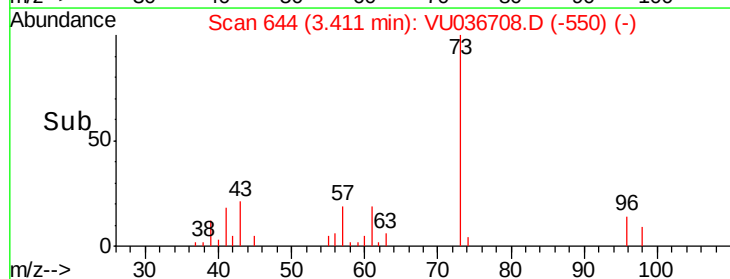
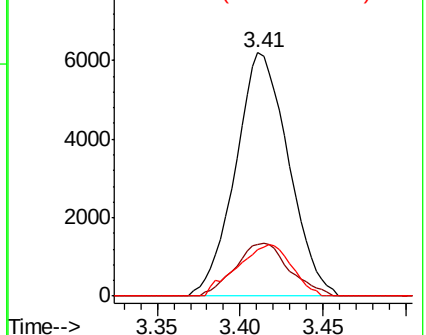
57 21.6 18.3 27.5

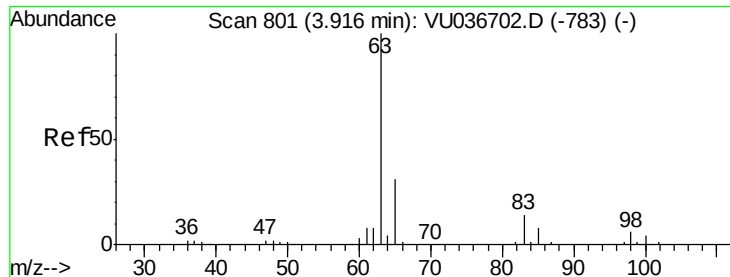


Abundance Ion 73.00 (72.70 to 73.70): VU036708.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VU036708.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU036708.D (-550) (-)

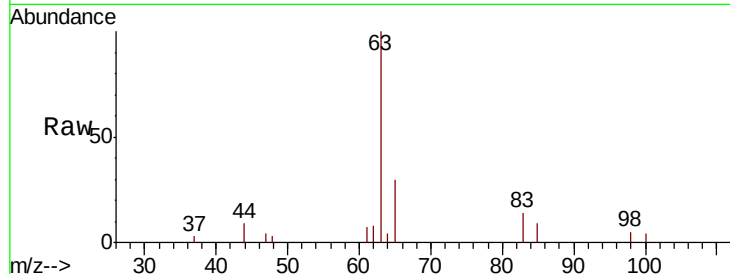




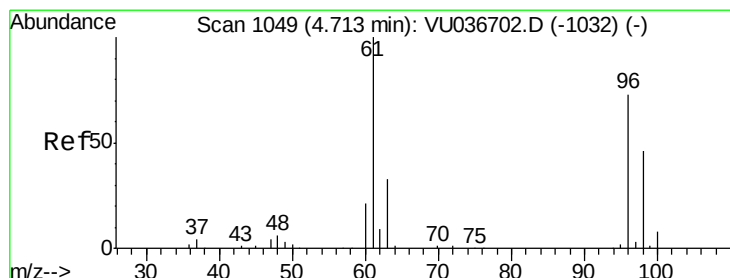
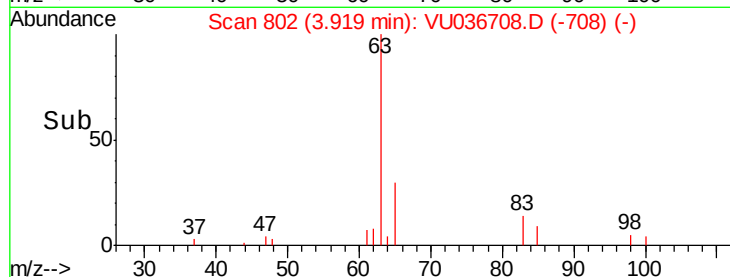
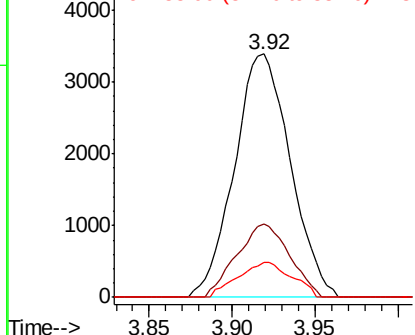
#19
 1,1-Dichloroethane
 Concen: 2.403 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 7962
 Ion Ratio Lower Upper
 63 100
 65 29.9 22.0 40.8
 83 14.3 10.1 18.7

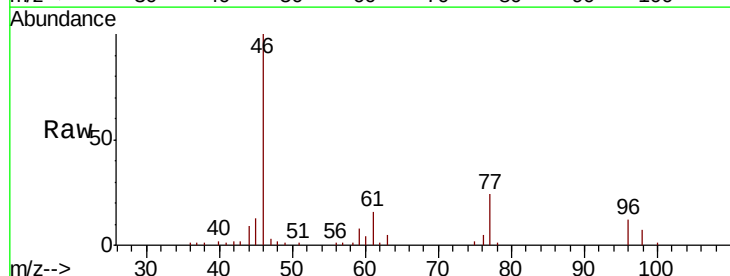


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

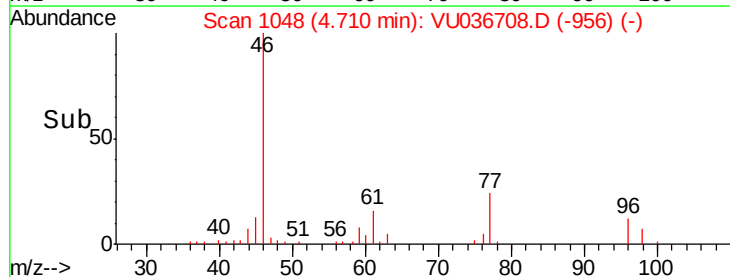
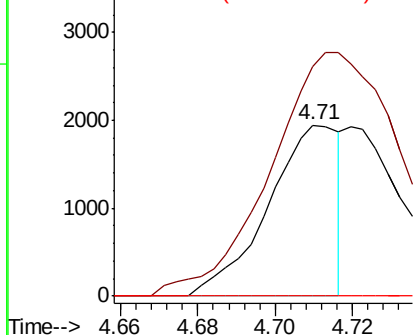


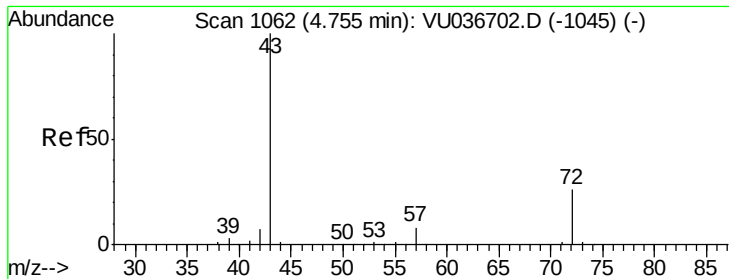
#20
 cis-1,2-Dichloroethene
 Concen: 1.313 ug/L
 RT: 4.71 min Scan# 1048
 Delta R.T. -0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 96 Resp: 2488
 Ion Ratio Lower Upper
 96 100
 61 133.9 93.3 173.3
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 5.164 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

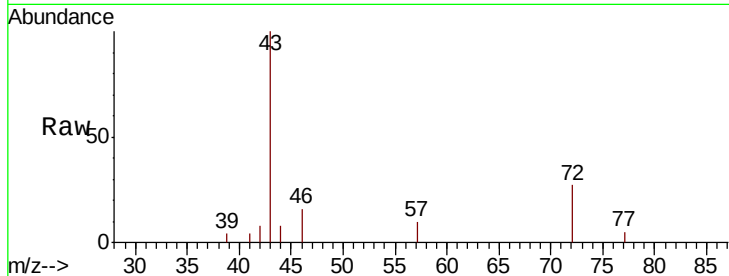
ClientSampleId :

Tot Ion: 43 Resp: 9479

Ion Ratio Lower Upper

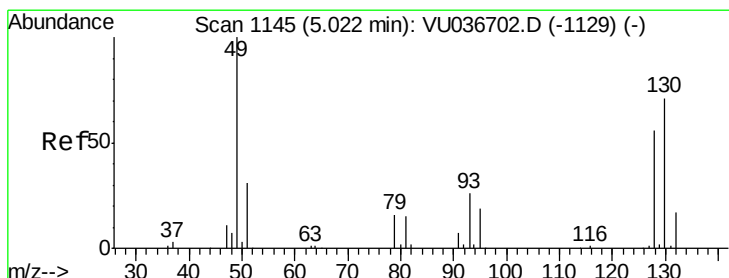
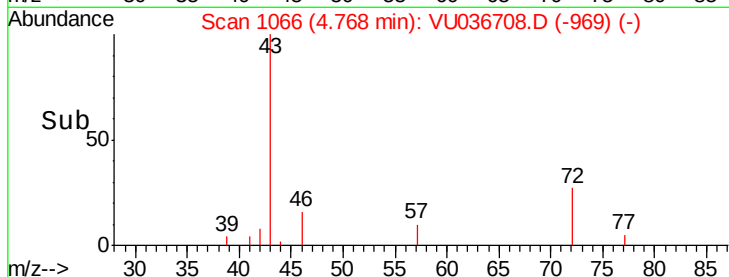
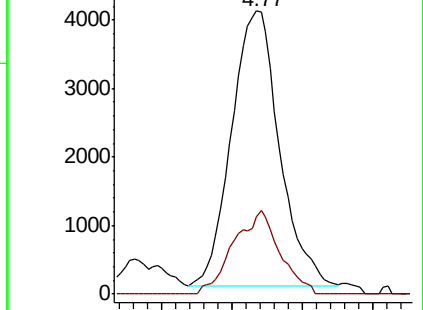
43 100

72 17.8 13.6 40.7



Abundance Ion 43.00 (42.70 to 43.70): VU036708.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU036708.D (-969) (-)



#23

Bromochloromethane

Concen: 2.221 ug/L

RT: 5.03 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Tgt Ion: 128 Resp: 1972

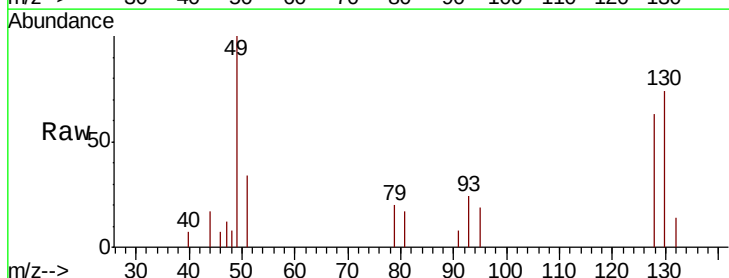
Ion Ratio Lower Upper

128 100

49 157.8 127.3 236.5

130 116.8 88.5 164.3

51 53.7 44.4 66.6

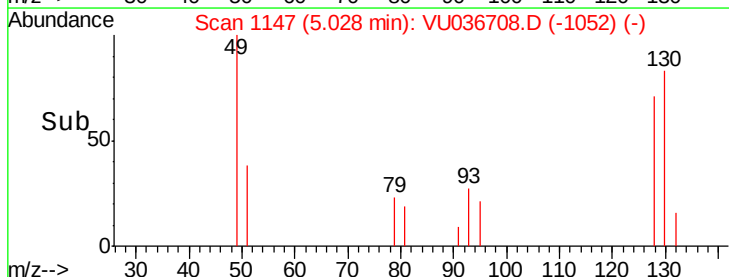
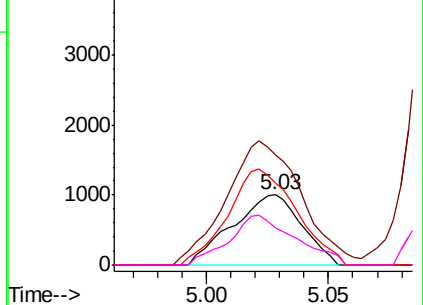


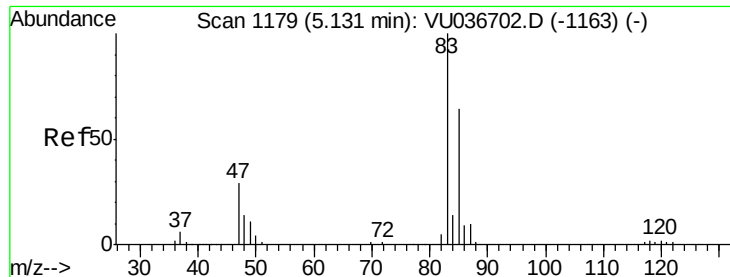
Abundance Ion 128.00 (127.70 to 128.70): VU036708.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU036708.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU036708.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU036708.D (-1052) (-)

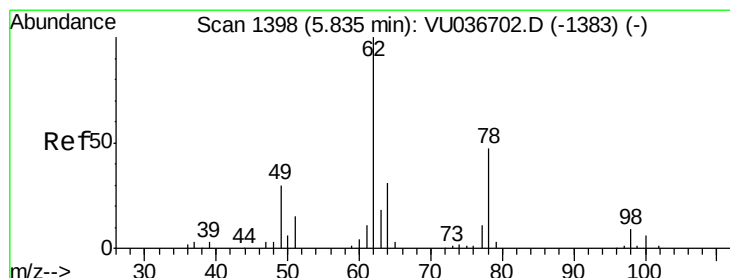
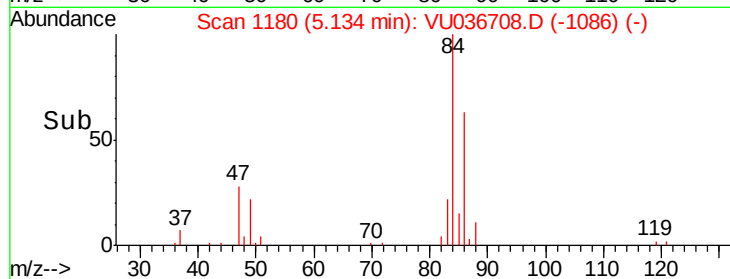
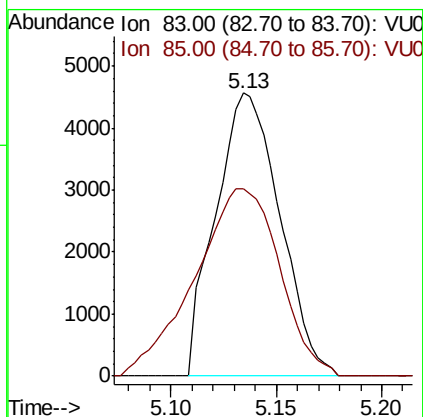
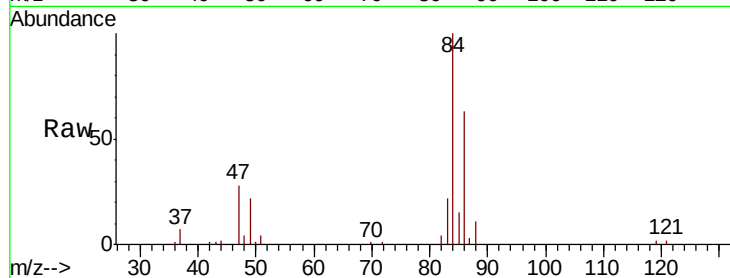




#25
Chloroform
Concen: 2.999 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

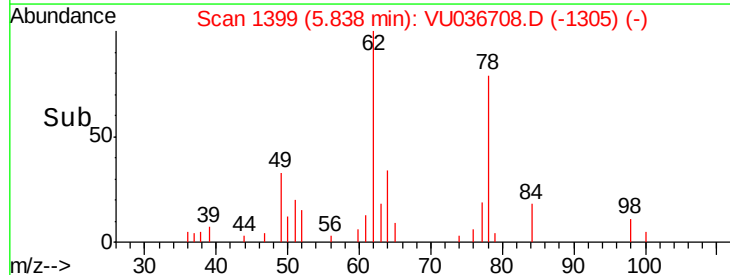
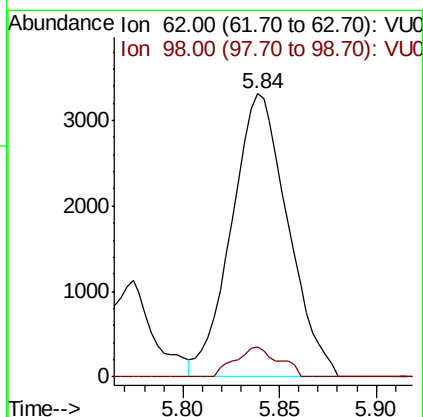
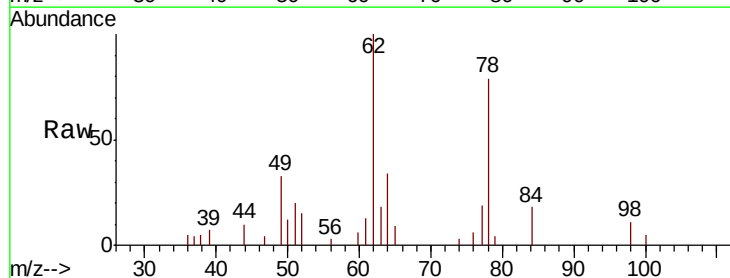
Instrument :
MSVOA_U
ClientSampled :

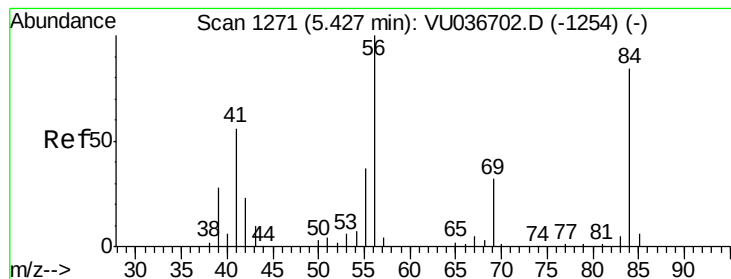
Tot Ion: 83 Resp: 9666
Ion Ratio Lower Upper
83 100
85 66.0 44.6 82.8



#27
1,2-Dichloroethane
Concen: 2.470 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion: 62 Resp: 6695
Ion Ratio Lower Upper
62 100
98 10.7 7.0 10.4#





#29

Cyclohexane

Concen: 2.245 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :

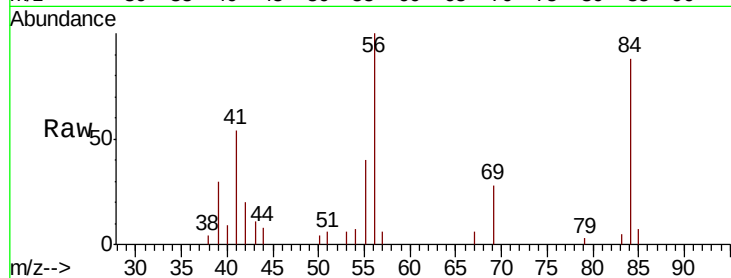
Tot Ion: 56 Resp: 6962

Ion Ratio Lower Upper

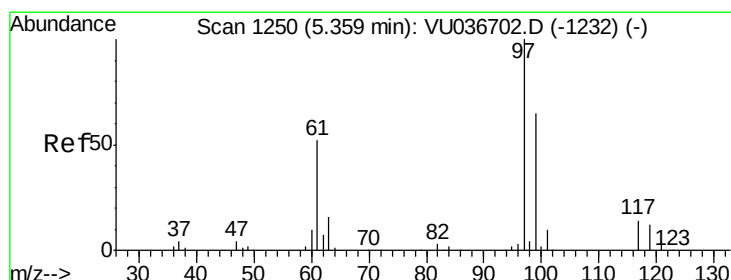
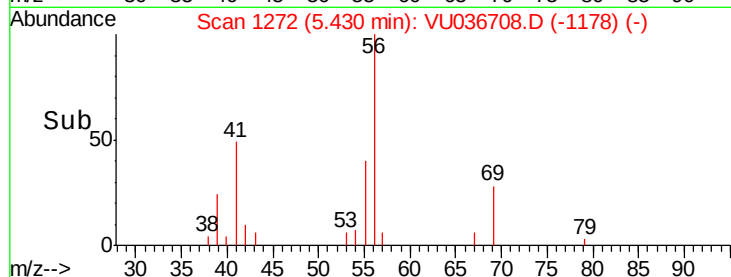
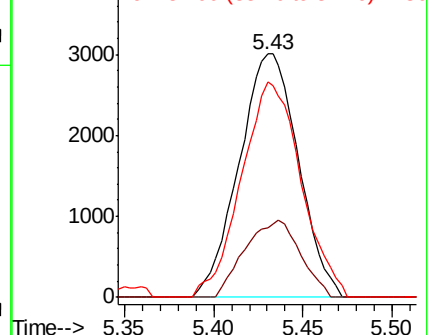
56 100

69 29.7 25.0 37.4

84 89.0 68.2 102.2



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 2.432 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

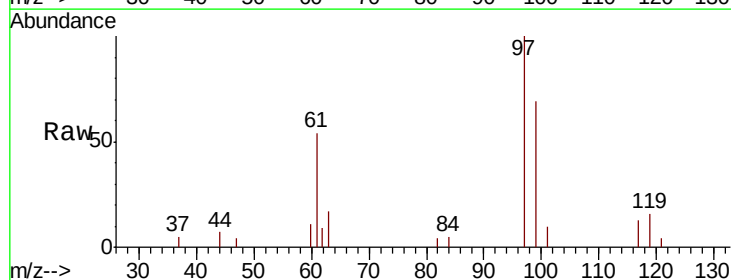
Tgt Ion: 97 Resp: 6238

Ion Ratio Lower Upper

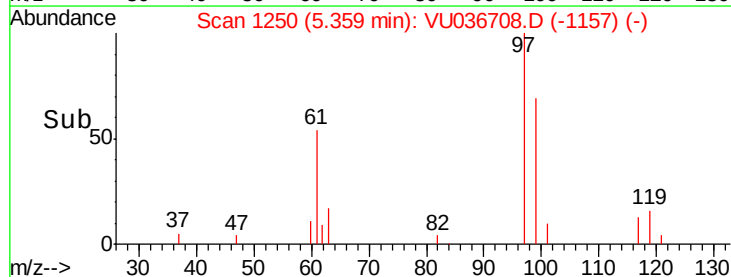
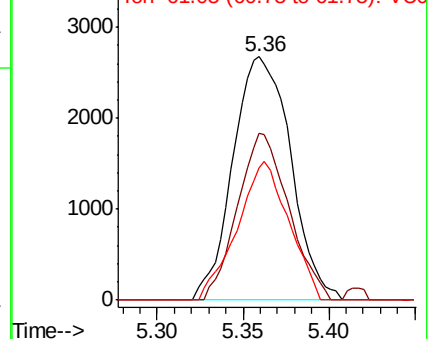
97 100

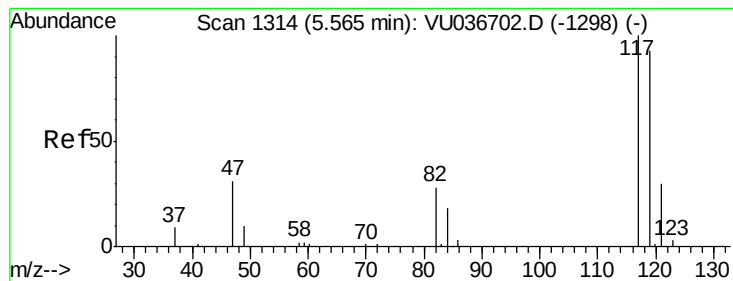
99 60.6 50.9 76.3

61 50.5 40.2 60.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 2.248 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

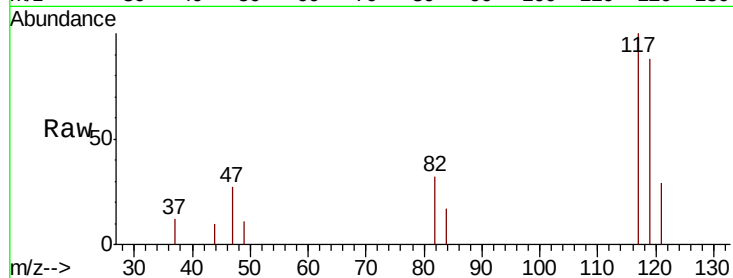
ClientSampleId :

Tot Ion:117 Resp: 4669

Ion Ratio Lower Upper

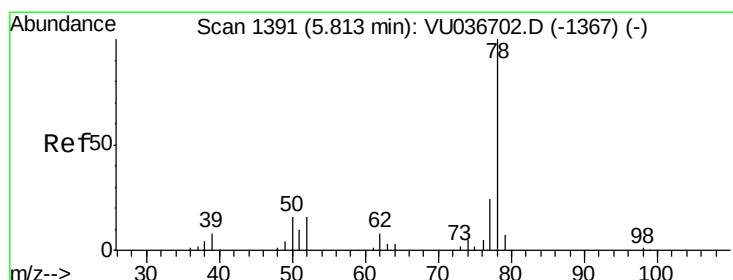
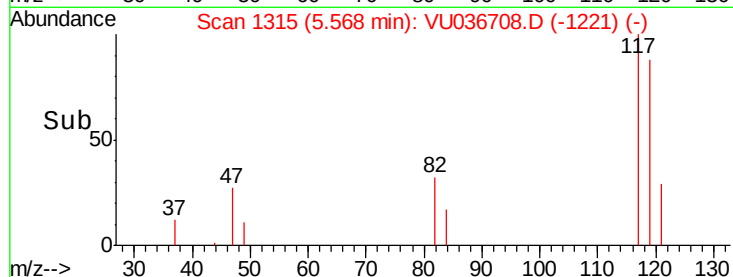
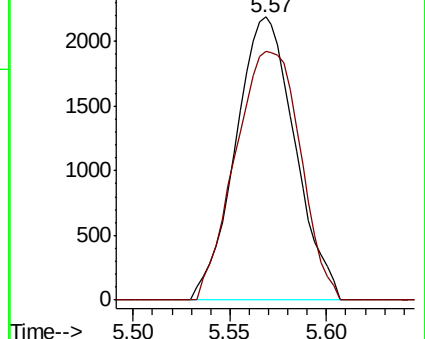
117 100

119 96.5 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.338 ug/L

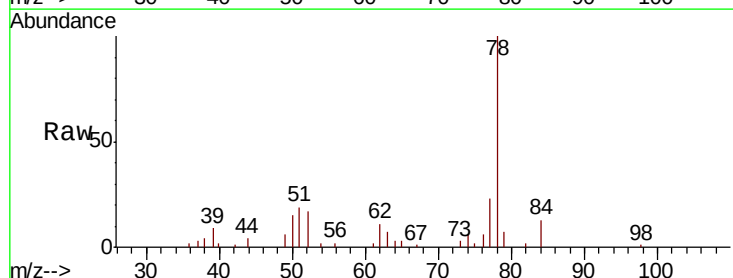
RT: 5.82 min Scan# 1393

Delta R.T. 0.01 min

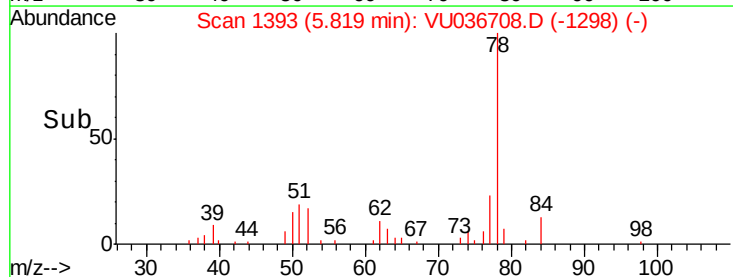
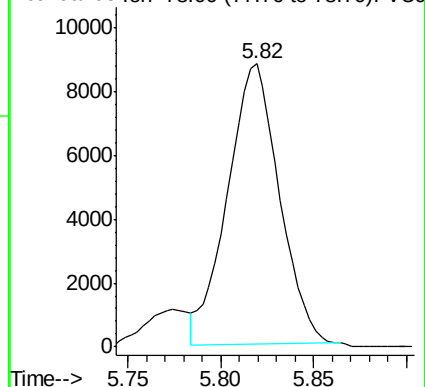
Lab File: VU036708.D

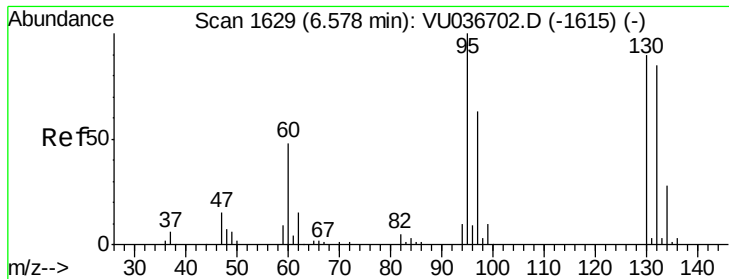
Acq: 10 Feb 2020 13:13

Tgt Ion: 78 Resp: 17075



Abundance Ion 78.00 (77.70 to 78.70): VU0

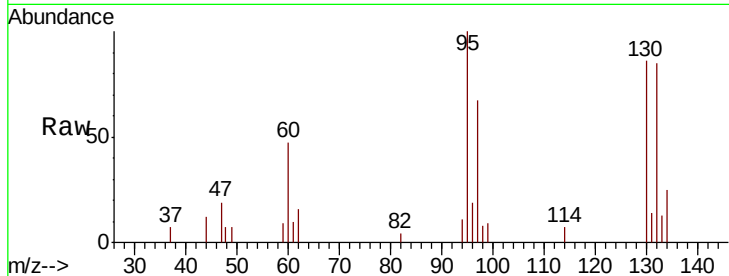




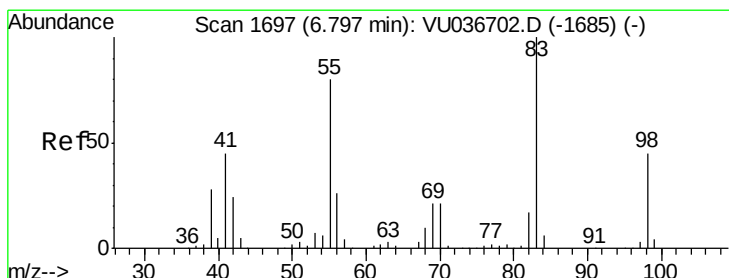
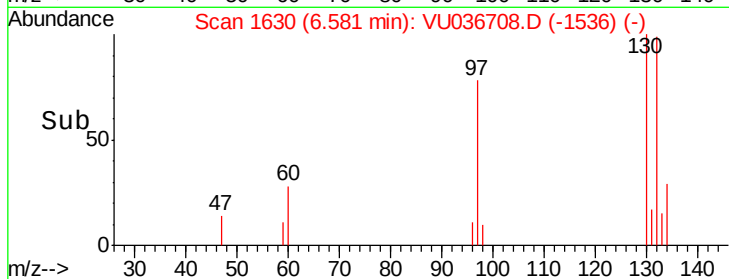
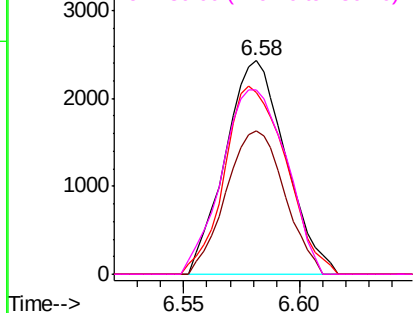
#34
 Trichloroethene
 Concen: 2.433 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 4393
 Ion Ratio Lower Upper
 95 100
 97 67.1 44.5 82.7
 132 84.9 59.6 110.8
 130 86.2 65.0 120.8

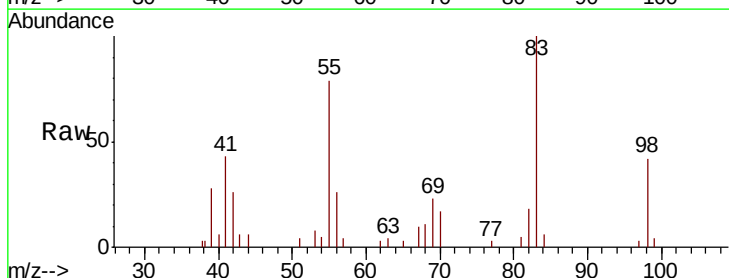


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

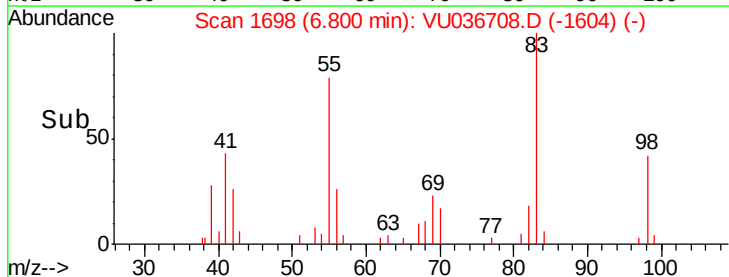
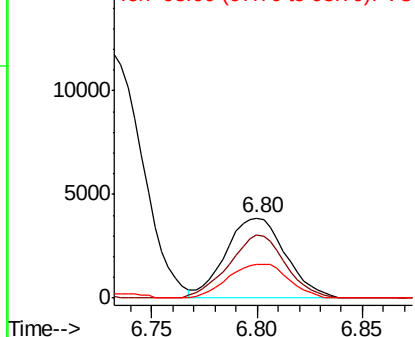


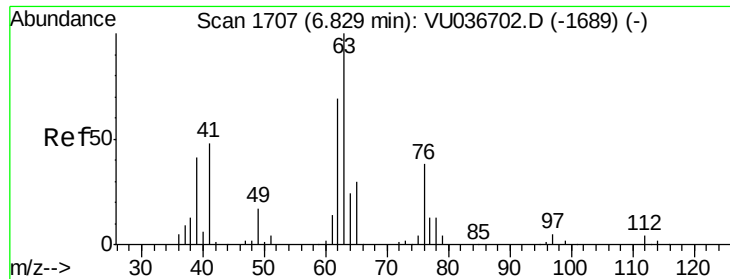
#35
 Methylcyclohexane
 Concen: 2.395 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 83 Resp: 7618
 Ion Ratio Lower Upper
 83 100
 55 74.4 61.2 91.8
 98 42.5 35.4 53.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

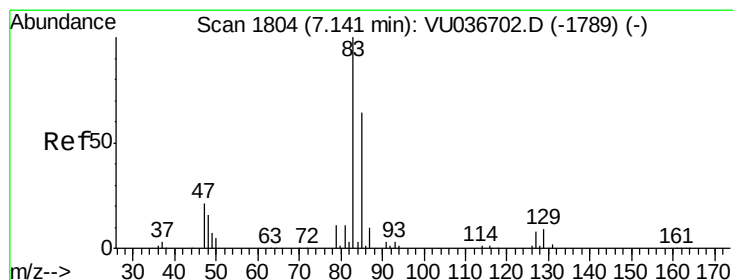
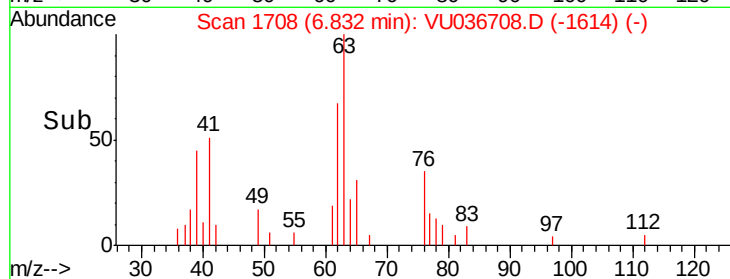
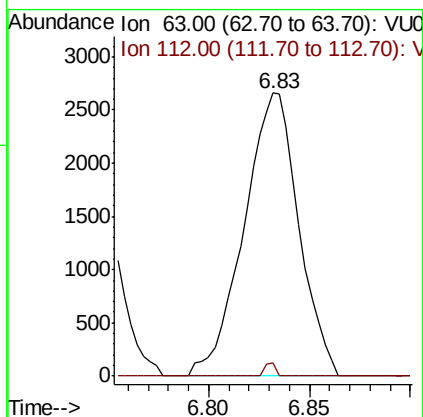
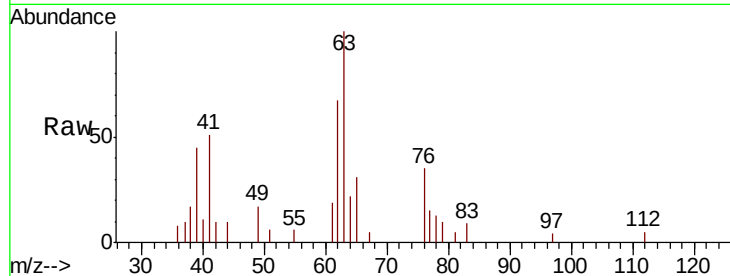




#37
 1,2-Dichloropropane
 Concen: 2.553 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

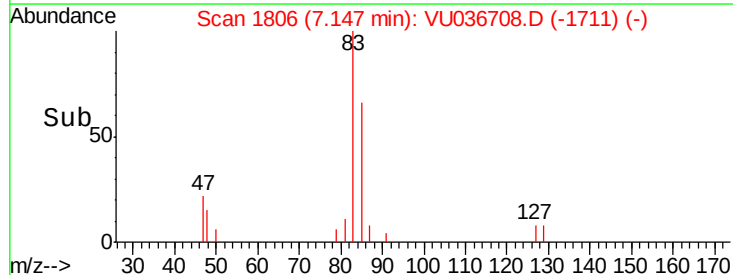
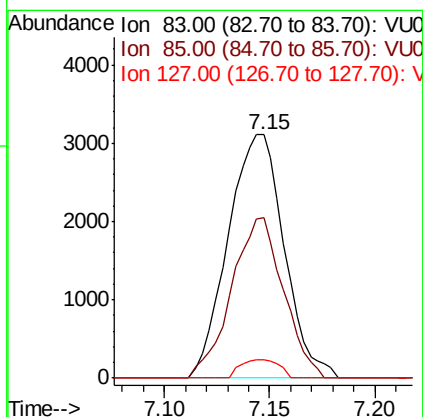
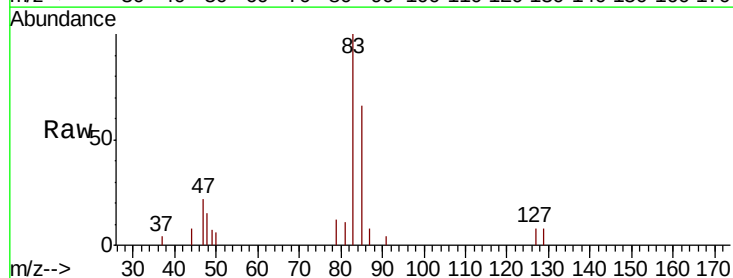
Instrument :
 MSVOA_U
 ClientSampled :

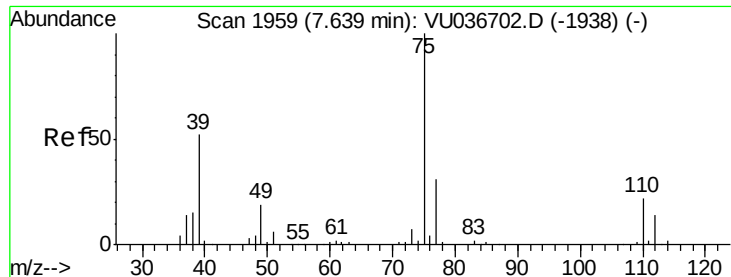
Tot Ion: 63 Resp: 5028
 Ion Ratio Lower Upper
 63 100
 112 0.9 3.1 4.7#



#38
 Bromodichloromethane
 Concen: 2.402 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 83 Resp: 5748
 Ion Ratio Lower Upper
 83 100
 85 65.7 43.9 81.5
 127 7.6 6.0 9.0

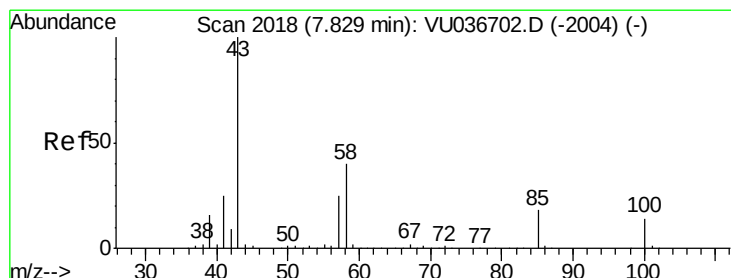
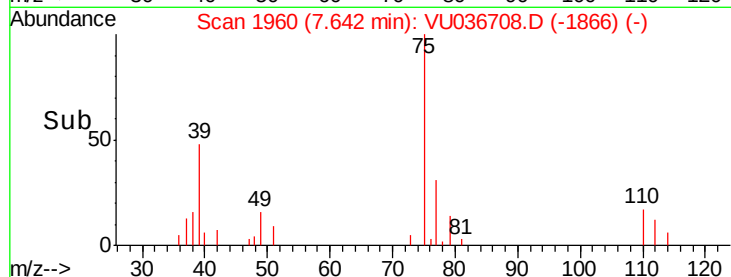
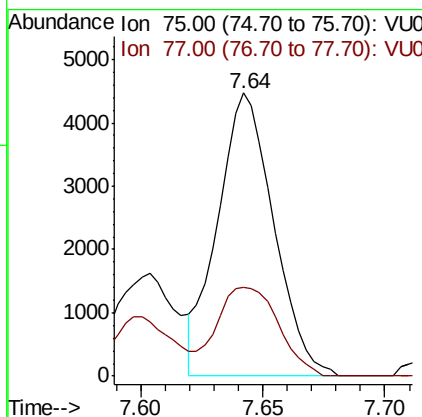
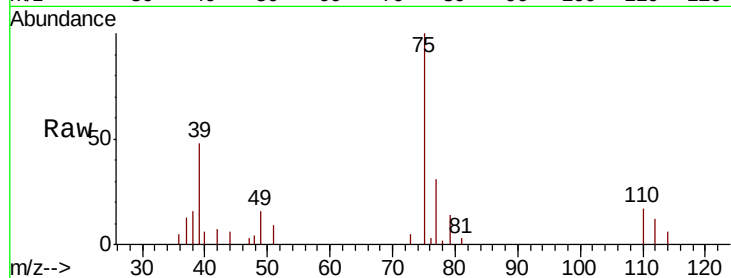




#39
 cis-1,3-Dichloropropene
 Concen: 2.270 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

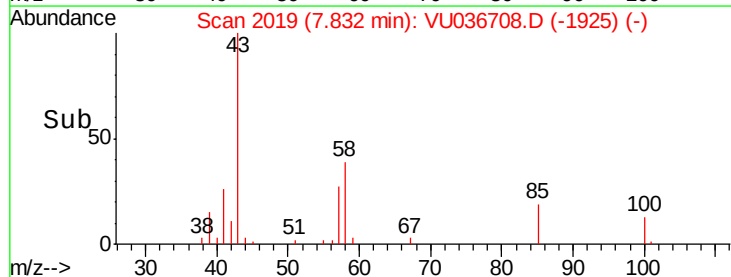
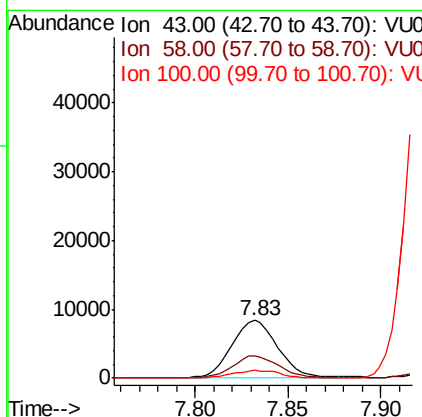
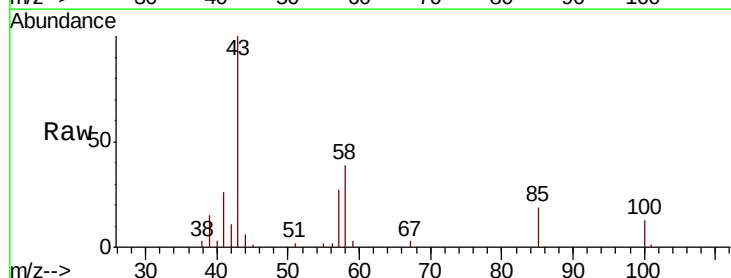
Instrument :
 MSVOA_U
 ClientSampled :

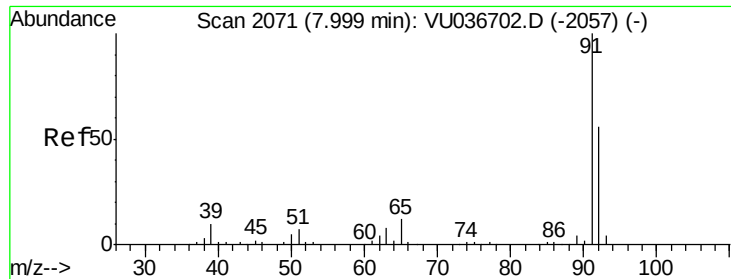
Tot Ion: 75 Resp: 7142
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.695 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 43 Resp: 14608
 Ion Ratio Lower Upper
 43 100
 58 38.6 31.0 46.6
 100 13.4 11.4 17.2





#42

Toluene

Concen: 2.461 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

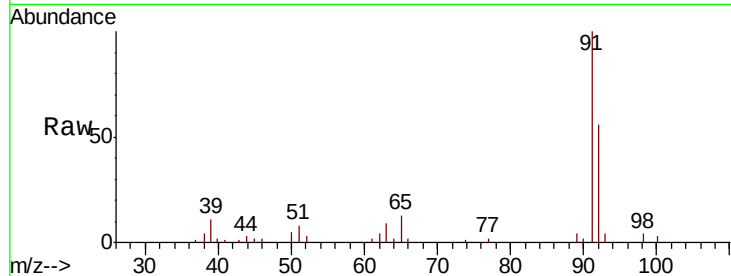
ClientSampled :

Tot Ion: 91 Resp: 19422

Ion Ratio Lower Upper

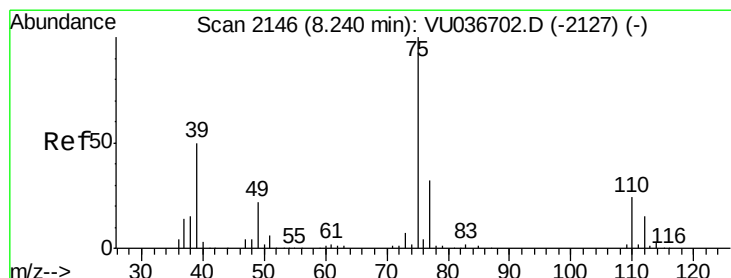
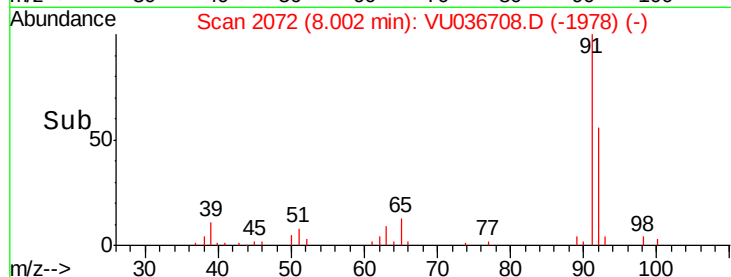
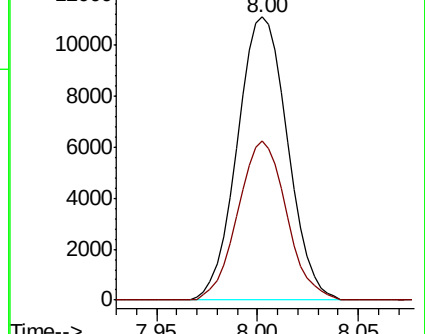
91 100

92 56.2 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU036702.D (-2057) (-)

Ion 92.00 (91.70 to 92.70): VU036708.D (-1978) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.409 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036708.D

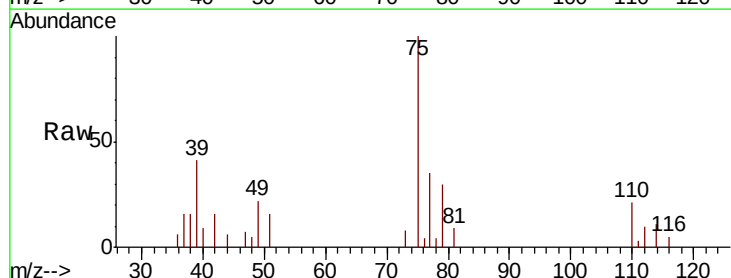
Acq: 10 Feb 2020 13:13

Tgt Ion: 75 Resp: 6621

Ion Ratio Lower Upper

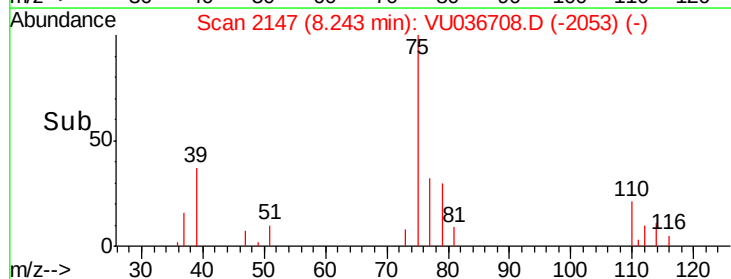
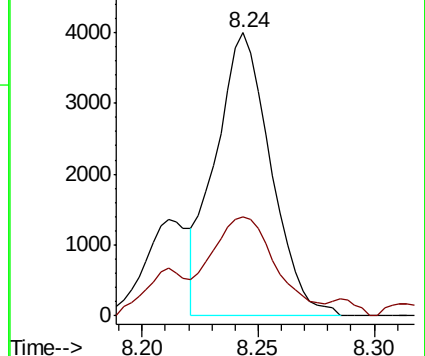
75 100

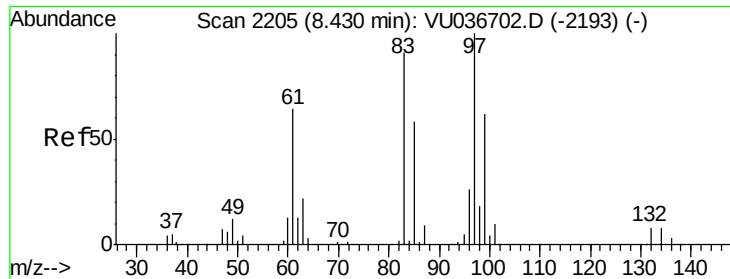
77 35.2 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036702.D (-2127) (-)

Ion 77.00 (76.70 to 77.70): VU036708.D (-2053) (-)

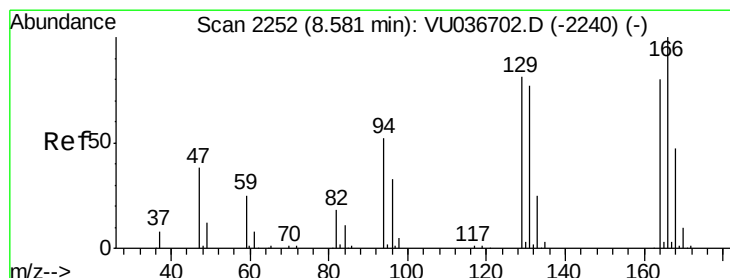
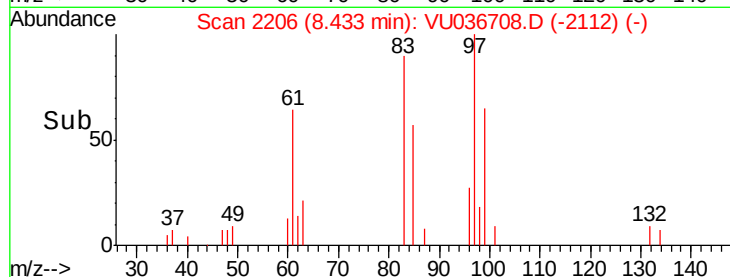
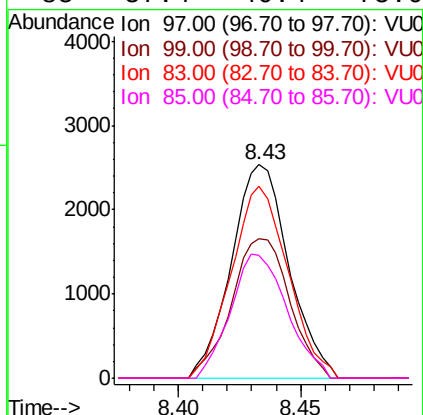
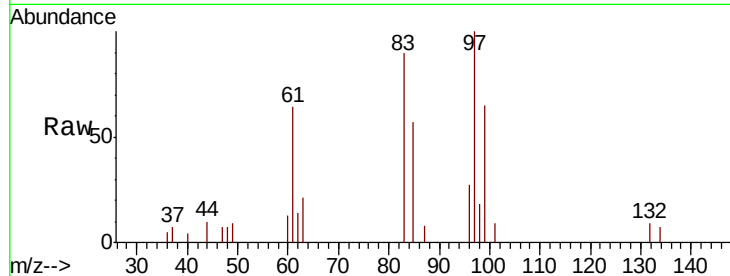




#45
 1,1,2-Trichloroethane
 Concen: 2.313 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

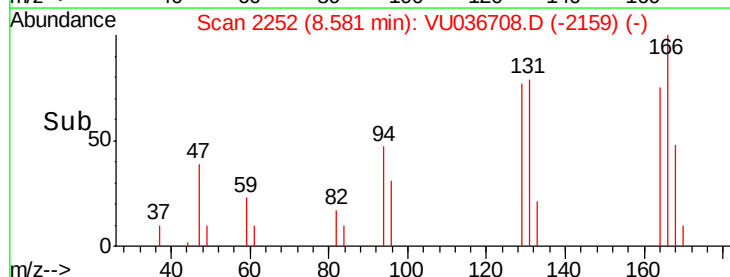
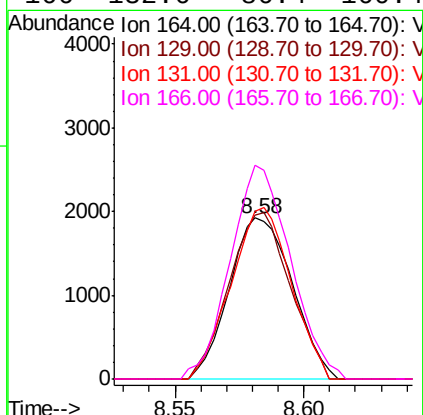
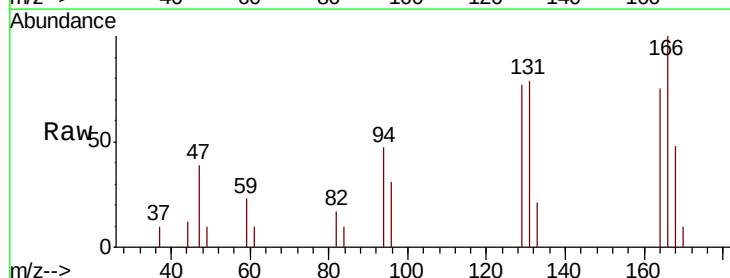
Instrument :
 MSVOA_U
 ClientSampleId :

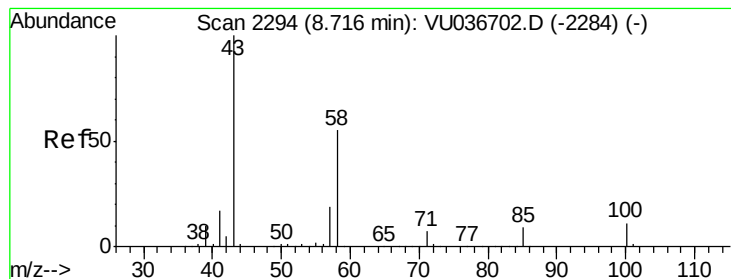
Tot Ion:	97	Resp:	4155
Ion	Ratio	Lower	Upper
97	100		
99	65.3	42.6	79.0
83	90.1	61.1	113.5
85	57.4	40.4	75.0



#46
 Tetrachloroethene
 Concen: 2.589 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion:	164	Resp:	3281
Ion	Ratio	Lower	Upper
164	100		
129	102.0	71.0	131.9
131	104.5	66.6	123.6
166	132.6	86.4	160.4





#48

2-Hexanone

Concen: 4.951 ug/L

RT: 8.72 min Scan# 2295

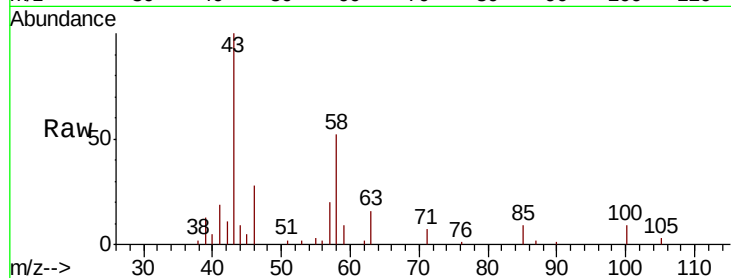
Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	12567
Ion	Ratio	Lower	Upper
43	100		
58	59.2	43.6	65.4
57	20.9	15.5	23.3
100	10.6	9.0	13.4

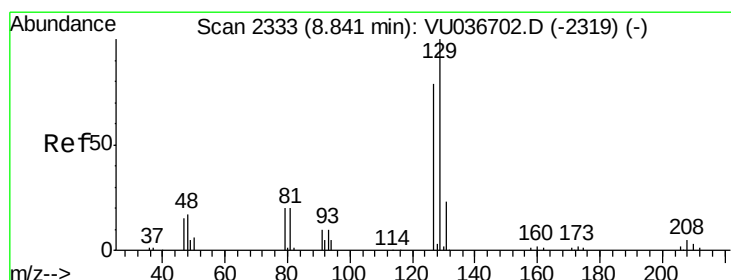
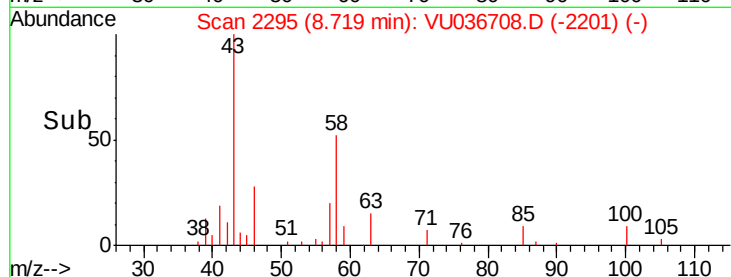
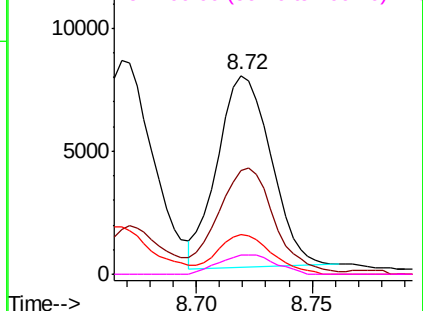


Abundance Ion 43.00 (42.70 to 43.70): VU036708.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VU036708.D (-2294) (-)

Ion 57.00 (56.70 to 57.70): VU036708.D (-2294) (-)

Ion 100.00 (99.70 to 100.70): VU036708.D (-2294) (-)



#49

Dibromochloromethane

Concen: 2.301 ug/L

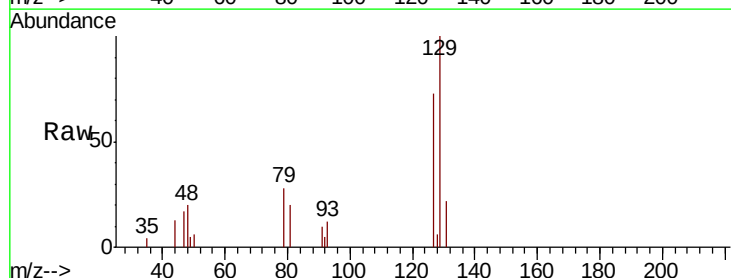
RT: 8.84 min Scan# 2333

Delta R.T. 0.00 min

Lab File: VU036708.D

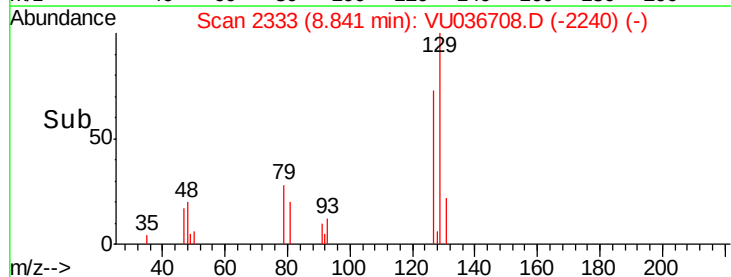
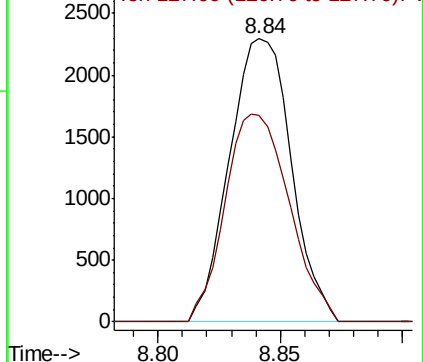
Acq: 10 Feb 2020 13:13

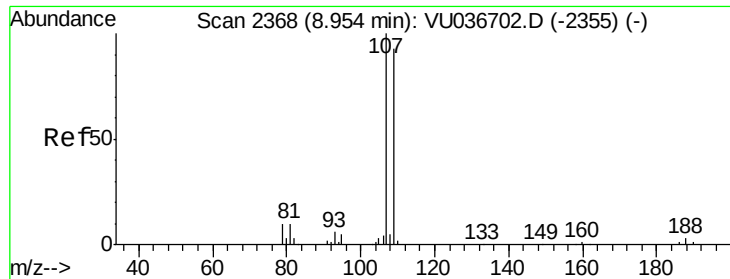
Tgt Ion:	129	Resp:	4043
Ion	Ratio	Lower	Upper
129	100		
127	72.8	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036708.D (-2333) (-)

Ion 127.00 (126.70 to 127.70): VU036708.D (-2333) (-)

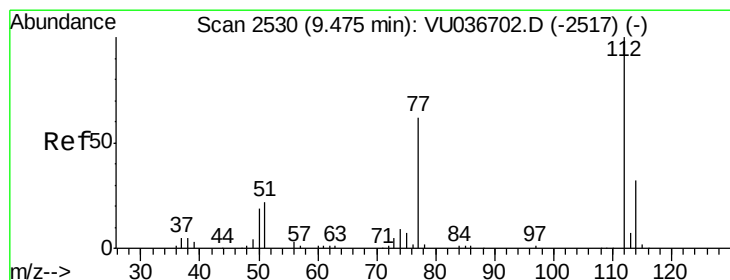
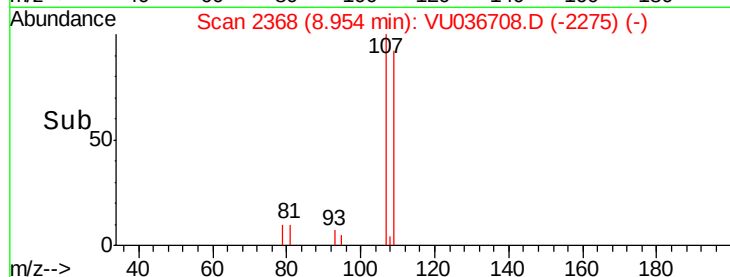
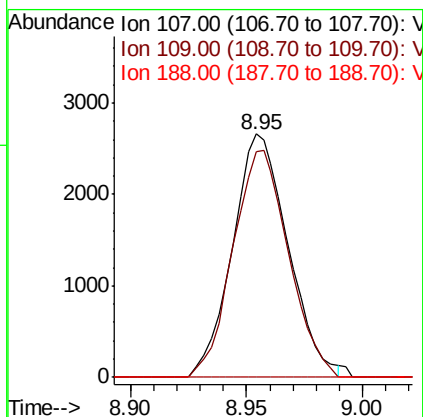
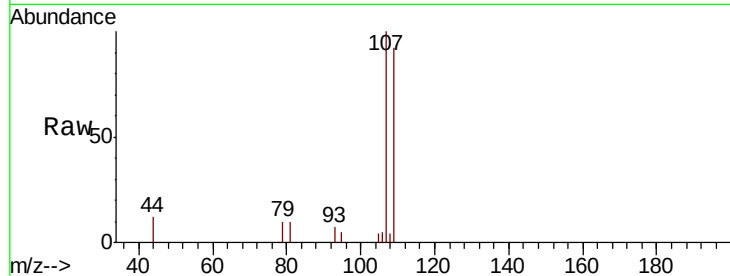




#50
 1,2-Dibromoethane
 Concen: 2.350 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

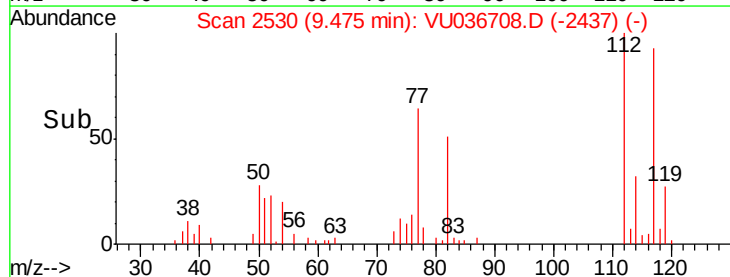
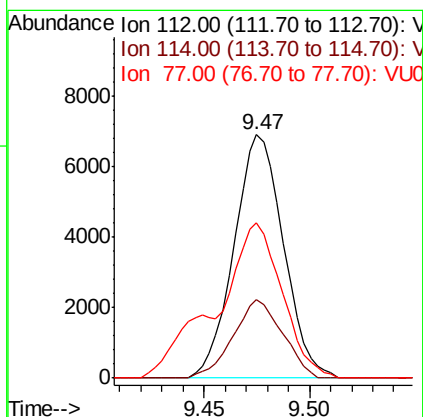
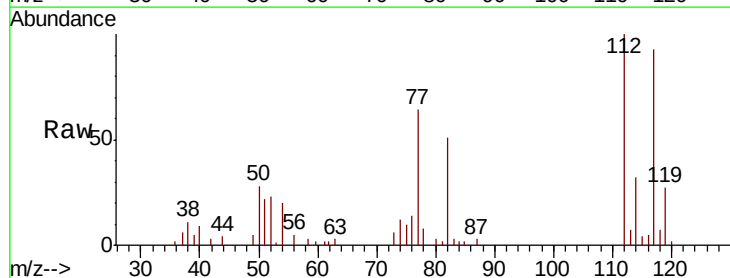
Instrument :
 MSVOA_U
 ClientSampleId :

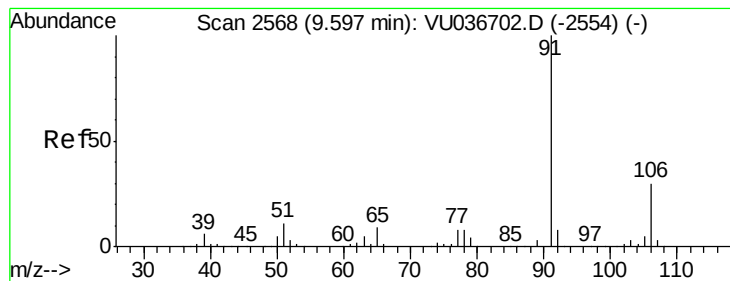
Tot Ion:107 Resp: 4436
 Ion Ratio Lower Upper
 107 100
 109 92.5 65.8 122.2
 188 0.0 2.5 3.7#



#51
 Chlorobenzene
 Concen: 2.362 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion:112 Resp: 11224
 Ion Ratio Lower Upper
 112 100
 114 32.2 22.7 42.1
 77 63.6 50.6 75.8





#52

Ethylbenzene

Concen: 2.236 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

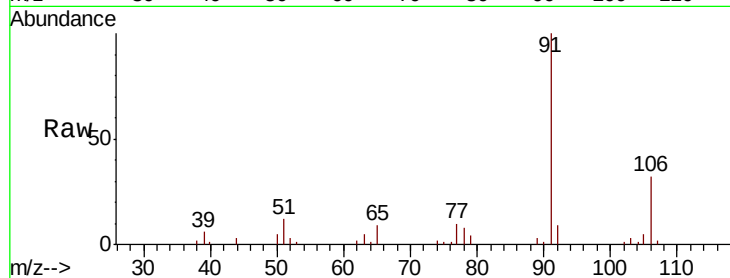
ClientSampleId :

Tot Ion: 91 Resp: 19389

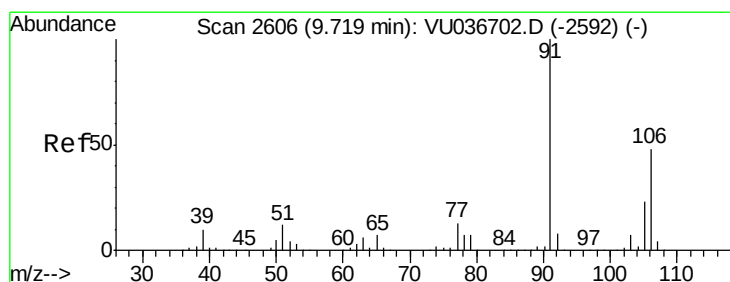
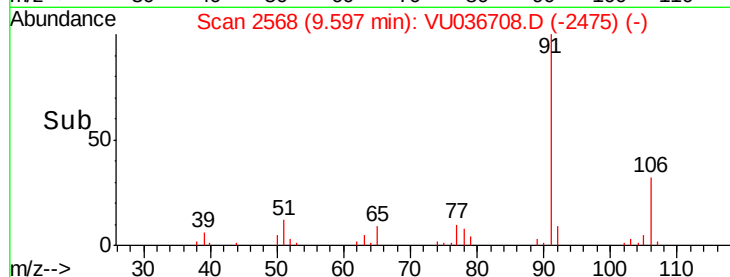
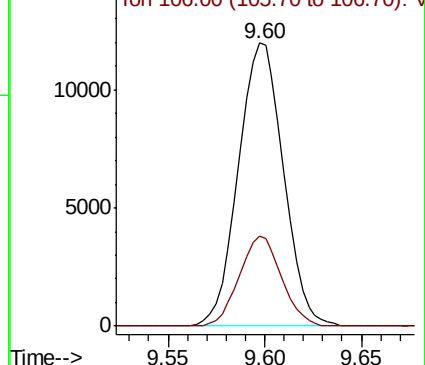
Ion Ratio Lower Upper

91 100

106 31.7 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036708.D (-2554) (-)



#53

m,p-Xylene

Concen: 2.268 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036708.D

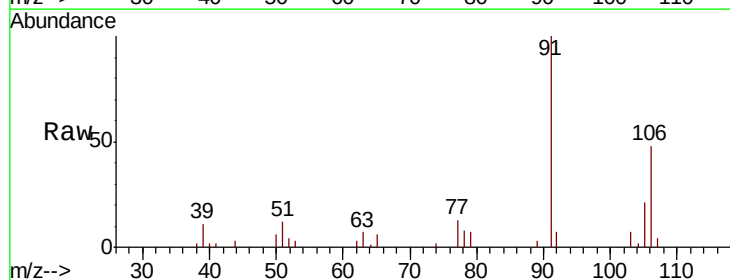
Acq: 10 Feb 2020 13:13

Tgt Ion: 106 Resp: 7256

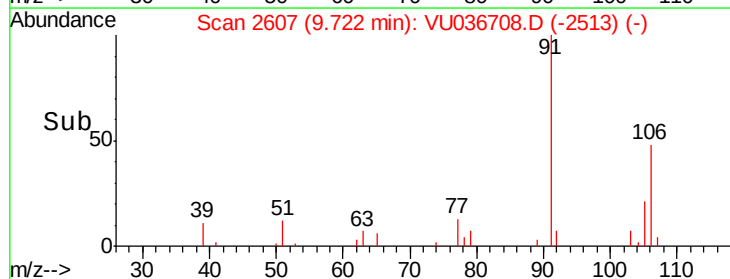
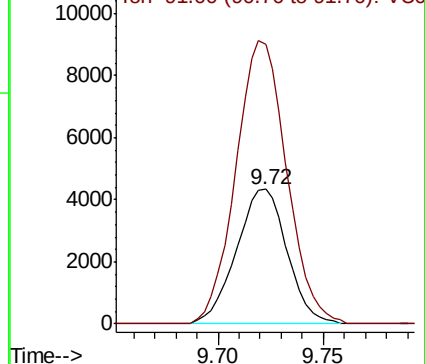
Ion Ratio Lower Upper

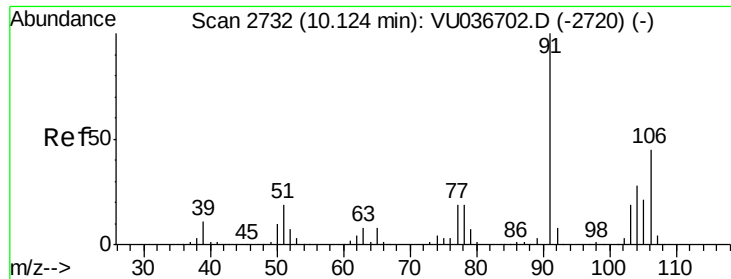
106 100

91 207.7 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036708.D (-2592) (-)

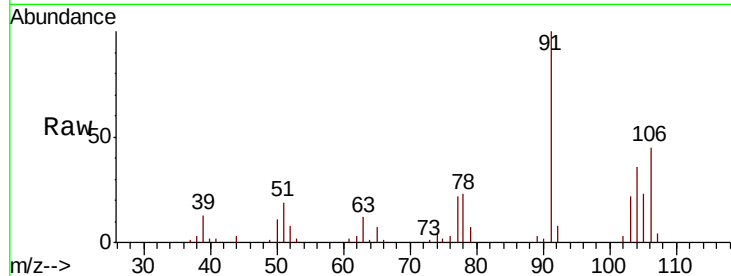




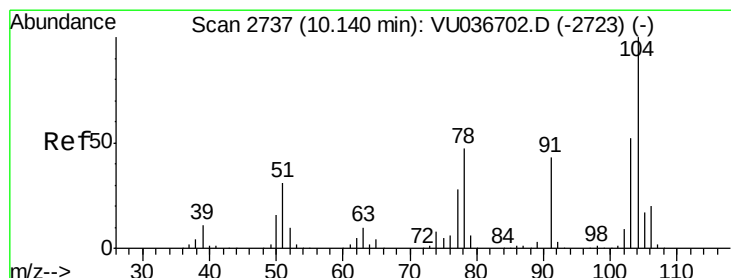
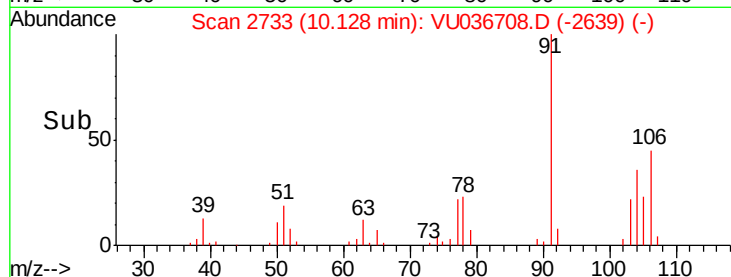
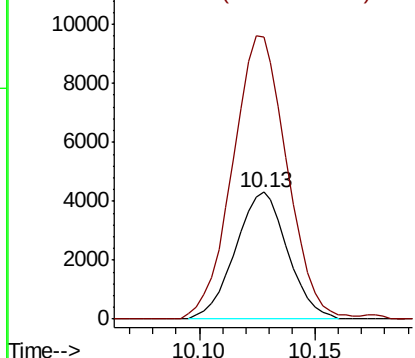
#54
o-xylene
Concen: 2.124 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 6730
Ion Ratio Lower Upper
106 100
91 221.8 156.0 289.6

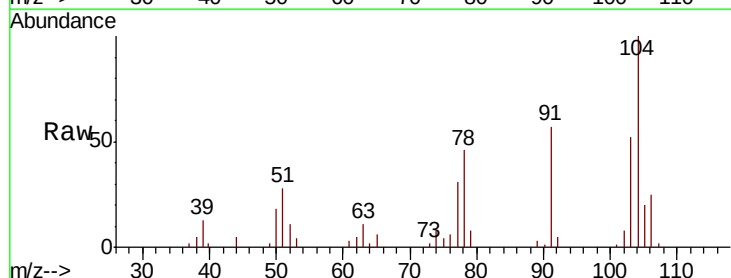


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

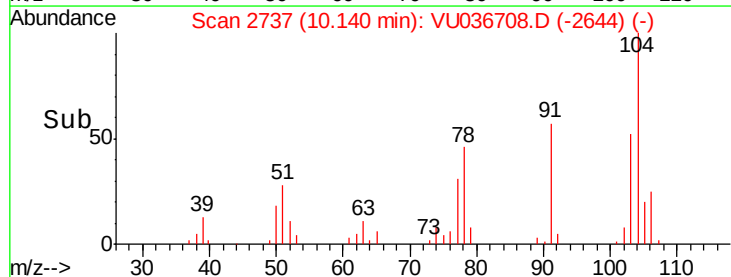
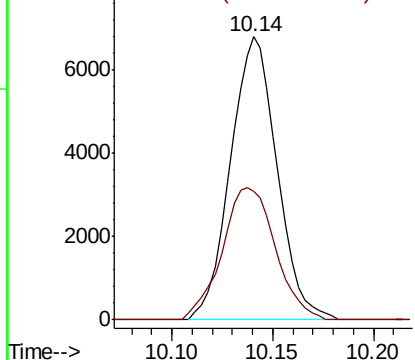


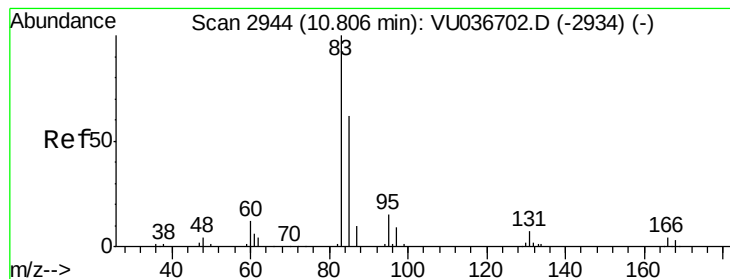
#55
Styrene
Concen: 2.082 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion:104 Resp: 10997
Ion Ratio Lower Upper
104 100
78 45.6 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.309 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

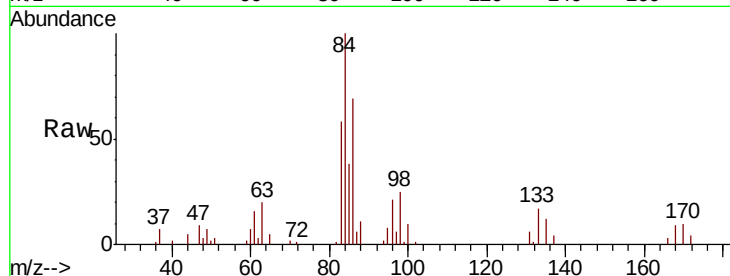
Tot Ion: 83 Resp: 7474

Ion Ratio Lower Upper

83 100

85 66.0 44.7 82.9

131 10.3 6.8 10.2#

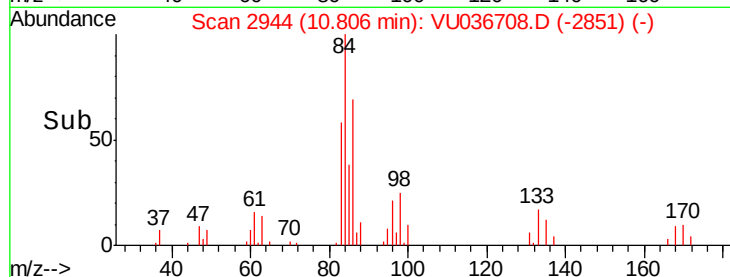


Abundance Ion 83.00 (82.70 to 83.70): VU036708.D (-2934) (-)

Ion 85.00 (84.70 to 85.70): VU036708.D (-2934) (-)

Ion 131.00 (130.70 to 131.70): VU036708.D (-2934) (-)

Time-->

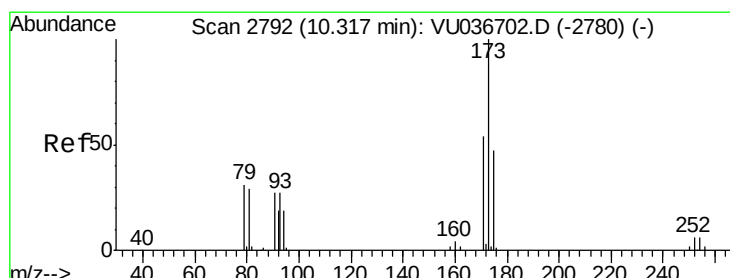


Abundance Ion 83.00 (82.70 to 83.70): VU036708.D (-2934) (-)

Ion 85.00 (84.70 to 85.70): VU036708.D (-2934) (-)

Ion 131.00 (130.70 to 131.70): VU036708.D (-2934) (-)

Time-->



#59

Bromoform

Concen: 2.090 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

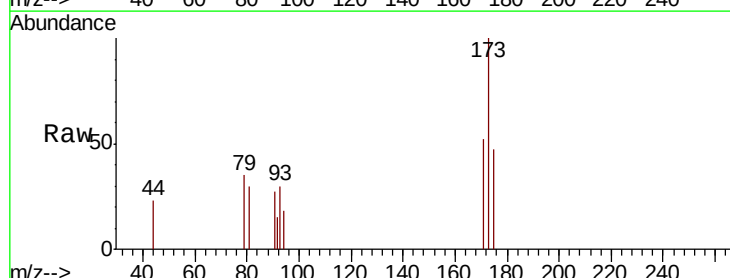
Tgt Ion: 173 Resp: 2422

Ion Ratio Lower Upper

173 100

175 45.9 38.2 57.4

254 0.0 4.8 7.2#

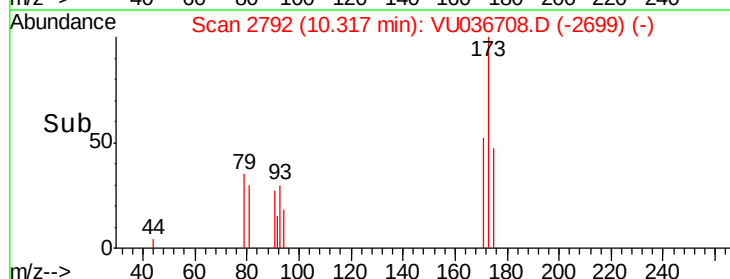


Abundance Ion 173.00 (172.70 to 173.70): VU036708.D (-2699) (-)

Ion 175.00 (174.70 to 175.70): VU036708.D (-2699) (-)

Ion 254.00 (253.70 to 254.70): VU036708.D (-2699) (-)

Time-->

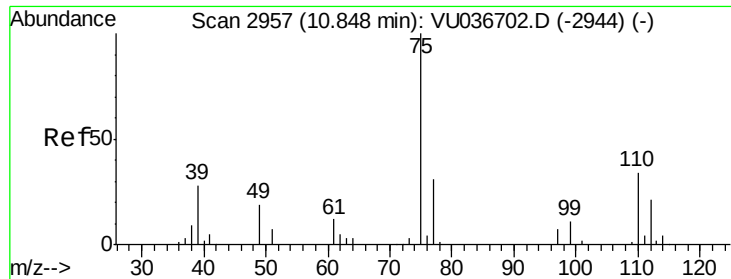


Abundance Ion 173.00 (172.70 to 173.70): VU036708.D (-2699) (-)

Ion 175.00 (174.70 to 175.70): VU036708.D (-2699) (-)

Ion 254.00 (253.70 to 254.70): VU036708.D (-2699) (-)

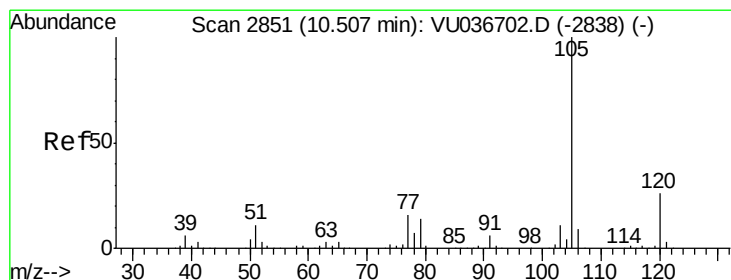
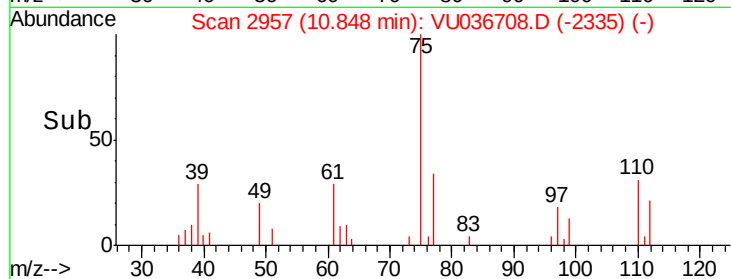
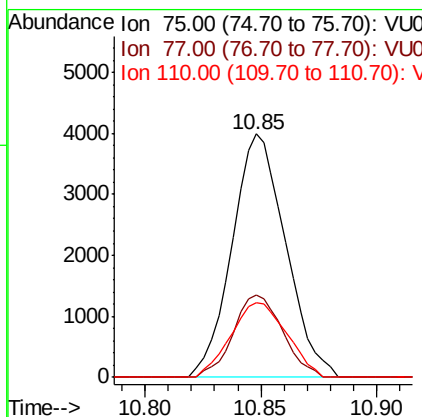
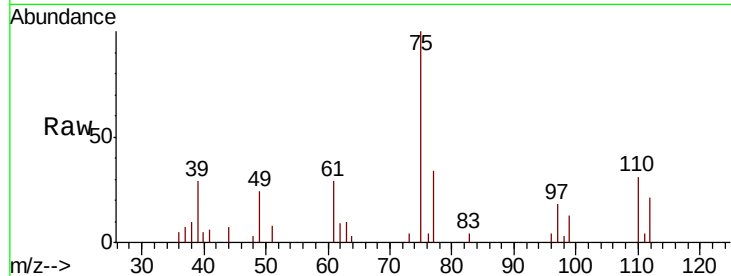
Time-->



#60
 1,2,3-Trichloropropane
 Concen: 2.595 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

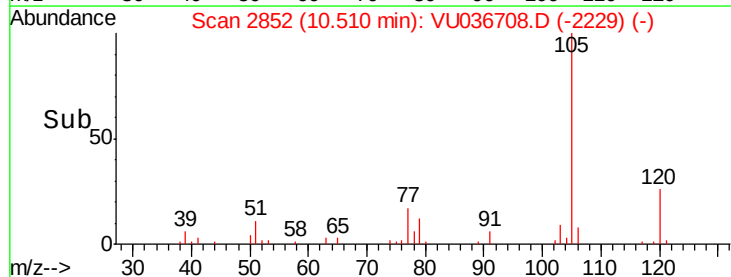
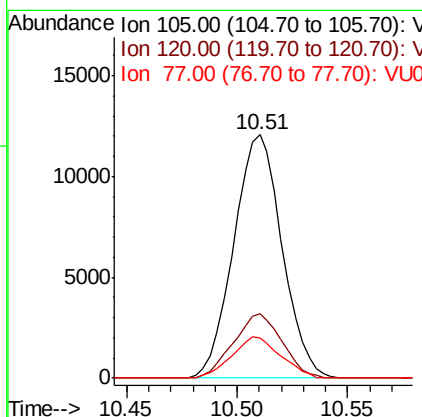
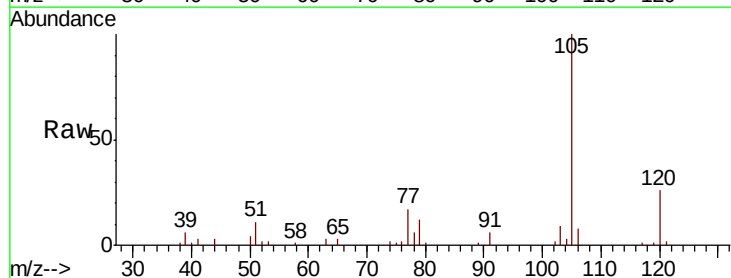
Instrument :
 MSVOA_U
 ClientSampled :

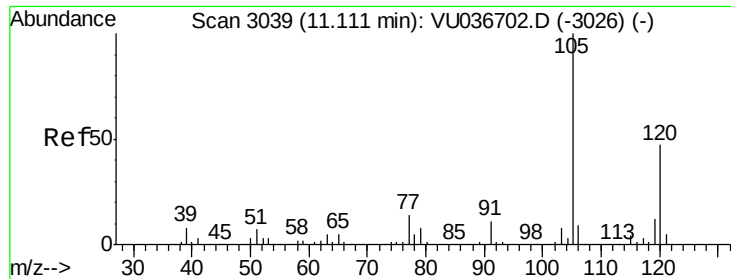
Tot Ion	75	Resp	6402
Ion Ratio	Lower	Upper	
75	100		
77	31.1	26.1	39.1
110	32.1	26.9	40.3



#61
 Isopropylbenzene
 Concen: 2.349 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion	105	Resp	18345
Ion Ratio	Lower	Upper	
105	100		
120	26.4	20.2	30.4
77	17.0	13.0	19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.246 ug/L

RT: 11.11 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VU036708.D

Acq: 10 Feb 2020 13:13

Instrument :

MSVOA_U

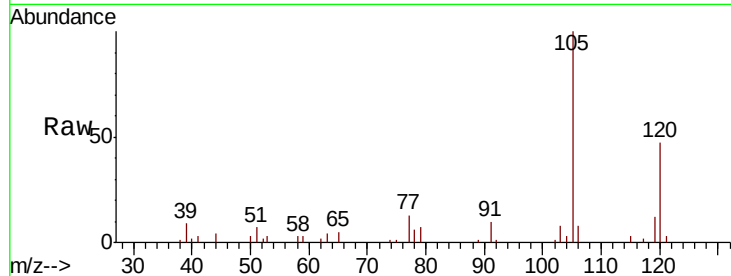
ClientSampled :

Tot Ion:105 Resp: 15041

Ion Ratio Lower Upper

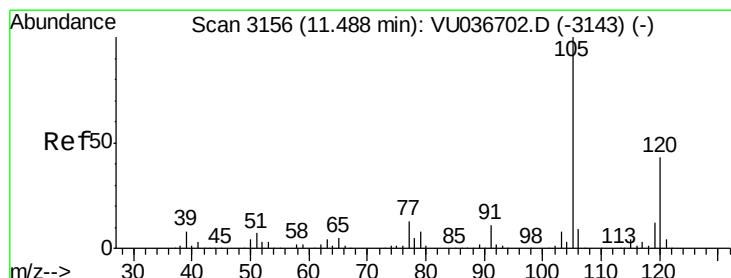
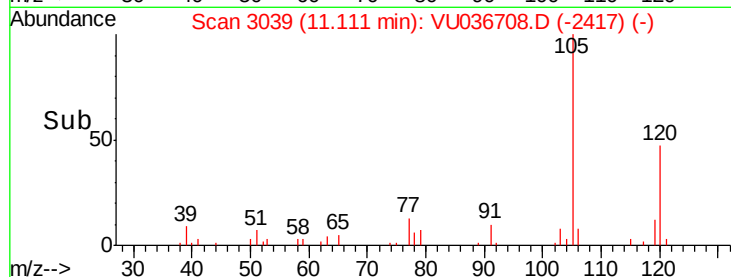
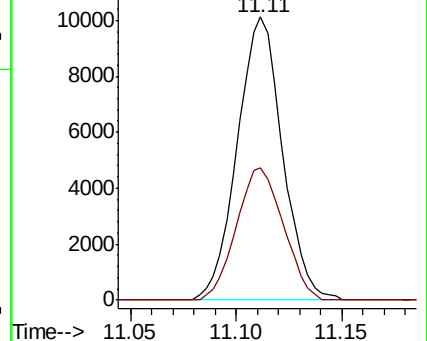
105 100

120 48.4 37.1 55.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.150 ug/L

RT: 11.49 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VU036708.D

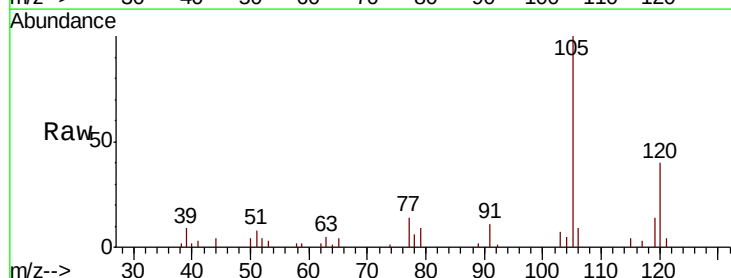
Acq: 10 Feb 2020 13:13

Tgt Ion:105 Resp: 14377

Ion Ratio Lower Upper

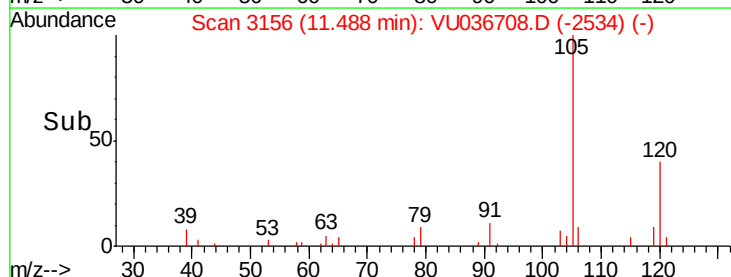
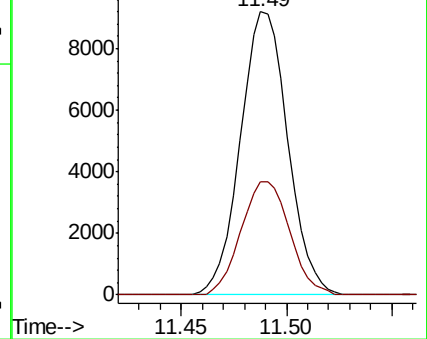
105 100

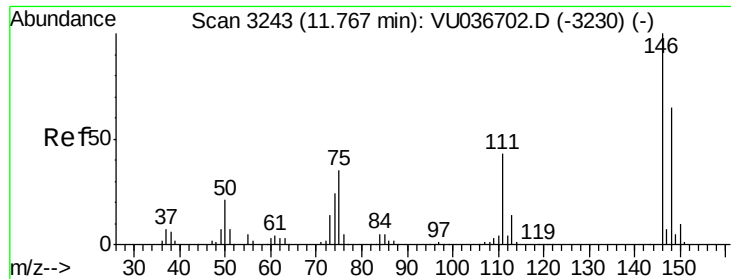
120 41.0 34.7 52.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

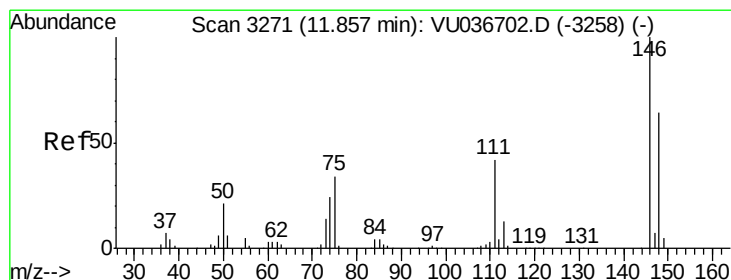
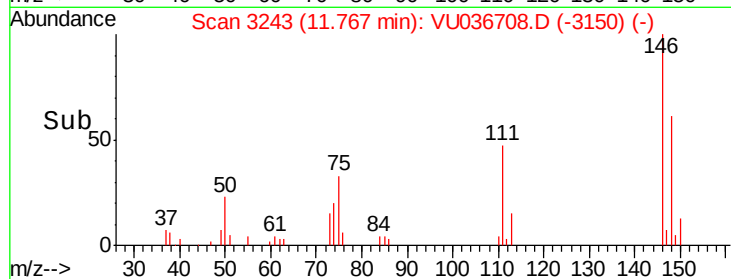
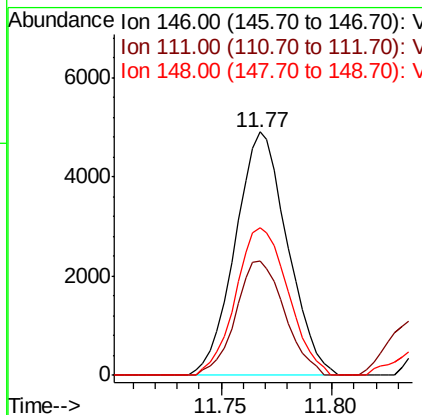
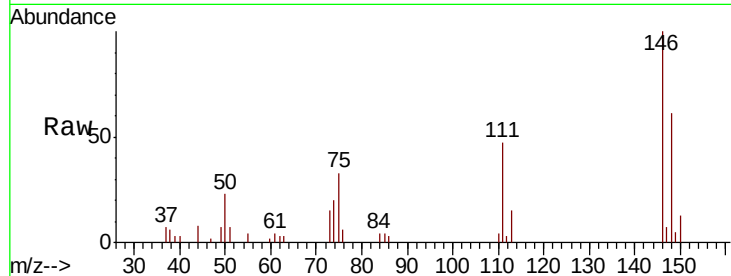




#64
 1,3-Dichlorobenzene
 Concen: 2.451 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

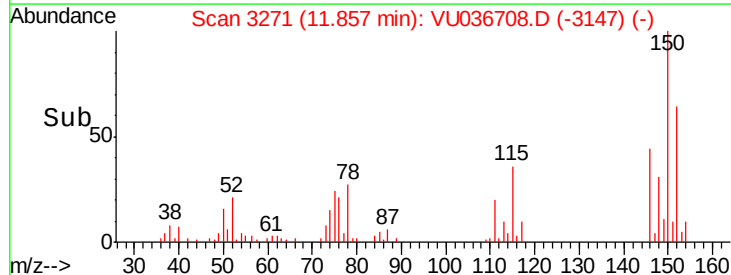
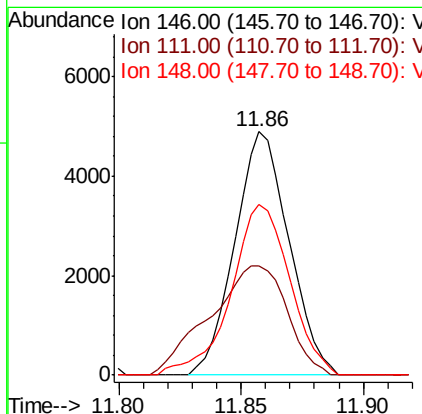
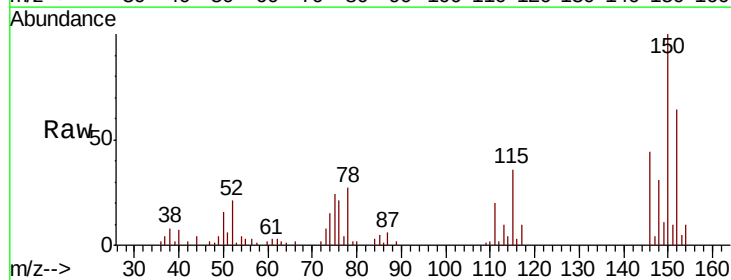
Instrument :
 MSVOA_U
 ClientSampleId :

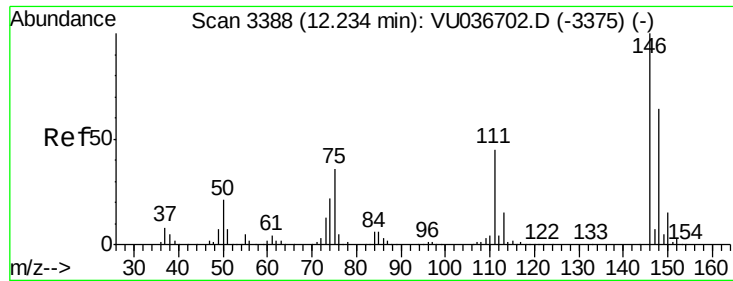
Tot Ion:146 Resp: 8052
 Ion Ratio Lower Upper
 146 100
 111 47.1 30.4 56.4
 148 60.5 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 2.275 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion:146 Resp: 7524
 Ion Ratio Lower Upper
 146 100
 111 45.0 29.3 54.3
 148 70.1 44.8 83.2

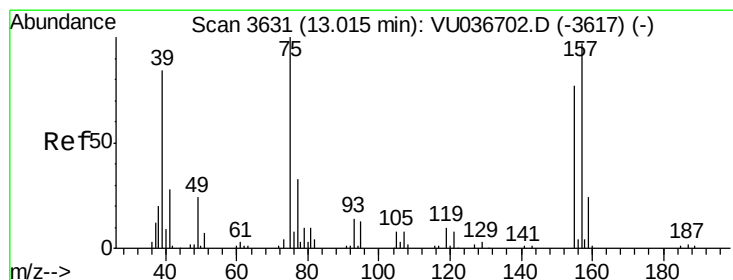
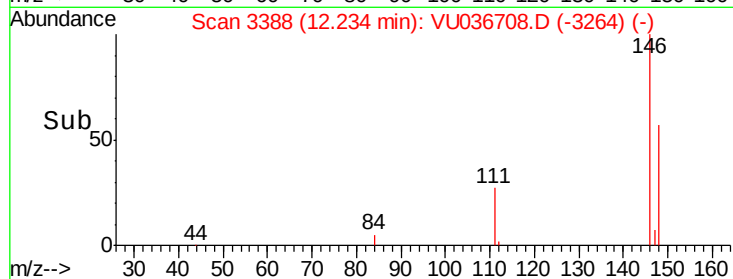
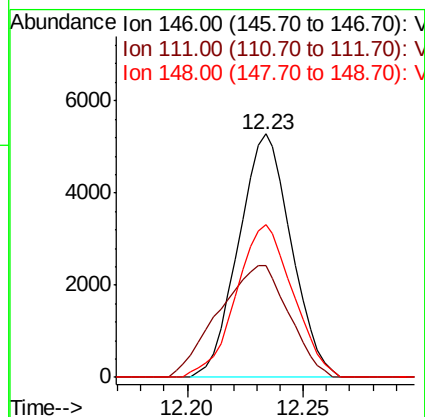
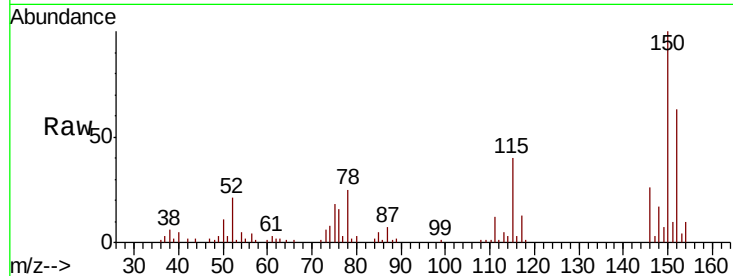




#67
 1,2-Dichlorobenzene
 Concen: 2.505 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

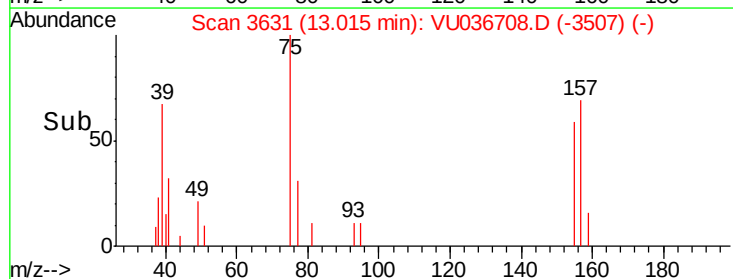
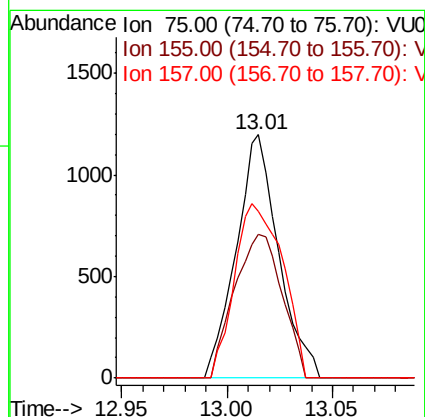
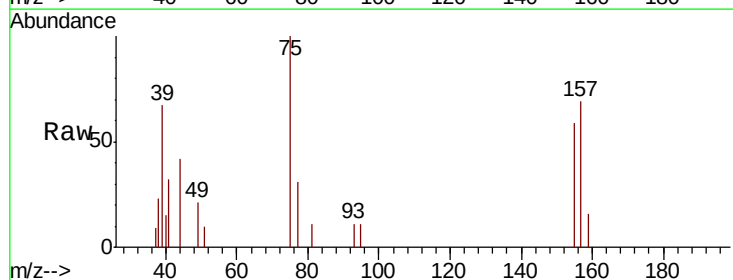
Instrument :
 MSVOA_U
 ClientSampleId :

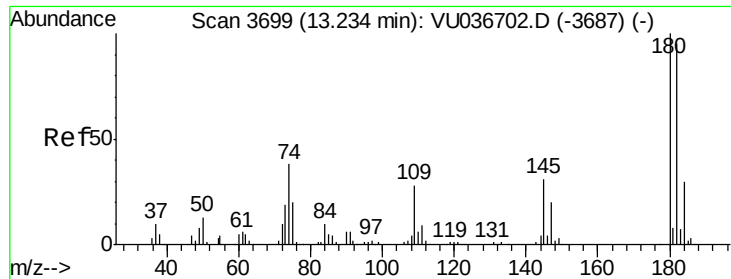
Tot Ion:146 Resp: 8331
 Ion Ratio Lower Upper
 146 100
 111 45.8 35.4 53.0
 148 62.5 50.4 75.6



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.366 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion: 75 Resp: 1668
 Ion Ratio Lower Upper
 75 100
 155 59.1 58.7 88.1
 157 68.6 77.8 116.6#

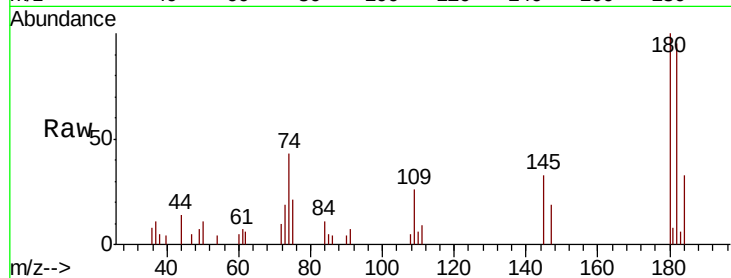




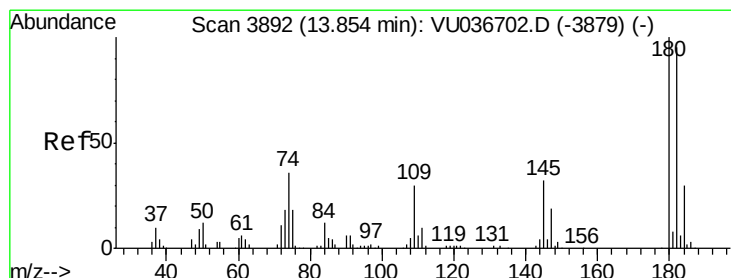
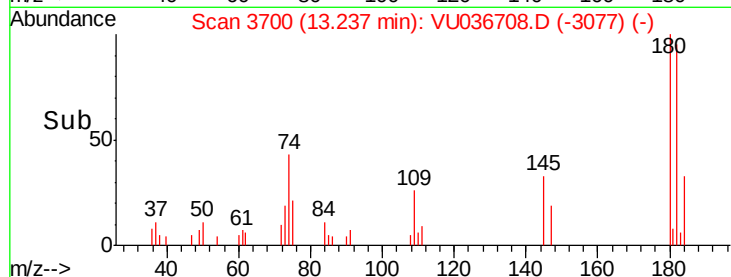
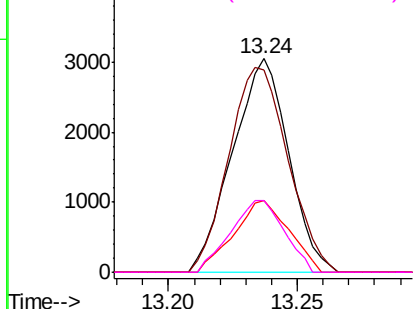
#69
 1,3,5-Trichlorobenzene
 Concen: 2.026 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 4614
 Ion Ratio Lower Upper
 180 100
 182 101.3 76.2 114.4
 184 32.9 23.8 35.6
 145 32.1 25.0 37.6

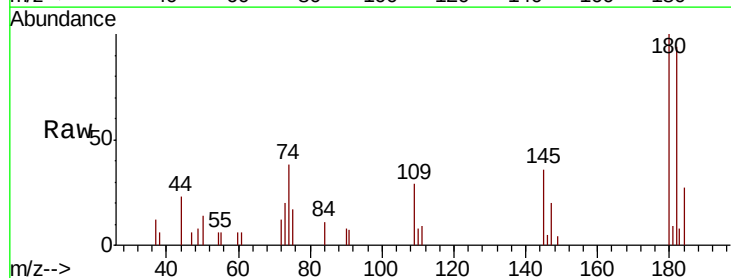


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

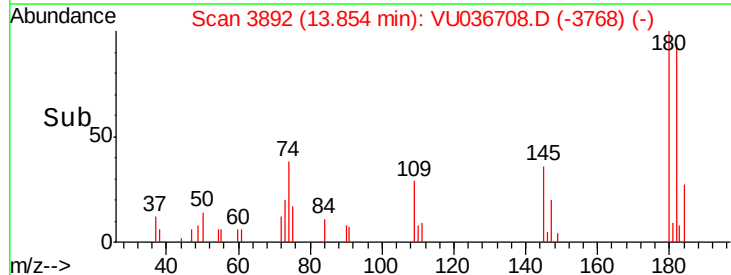
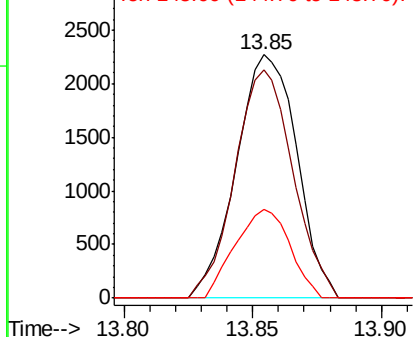


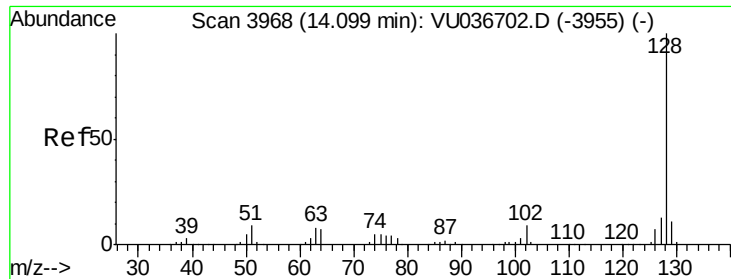
#70
 1,2,4-trichlorobenzene
 Concen: 1.952 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036708.D
 Acq: 10 Feb 2020 13:13

Tgt Ion:180 Resp: 3708
 Ion Ratio Lower Upper
 180 100
 182 90.0 76.1 114.1
 145 33.0 25.7 38.5



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

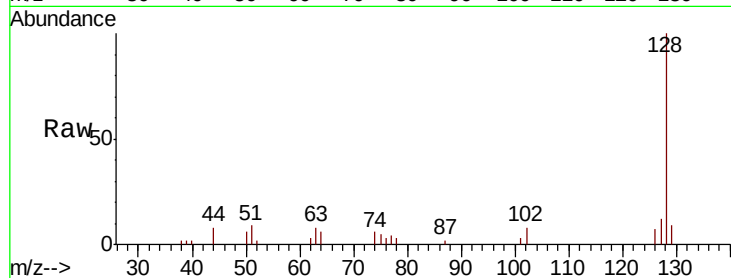




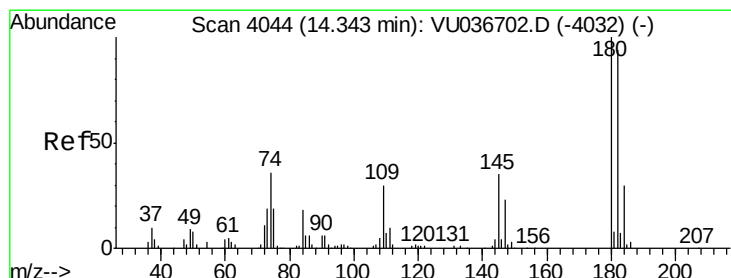
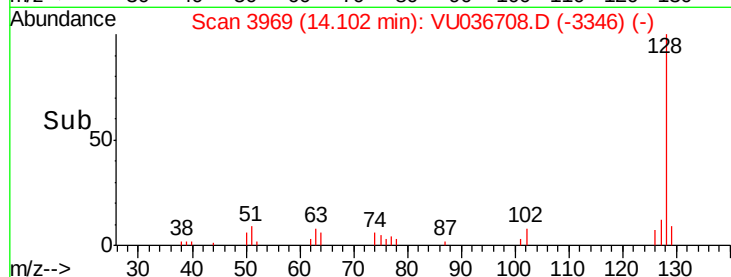
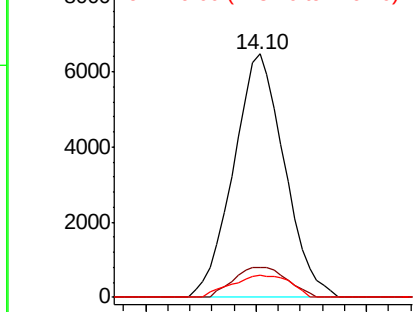
#71
Naphthalene
Concen: 1.550 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 10379
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 10.4 8.5 12.7

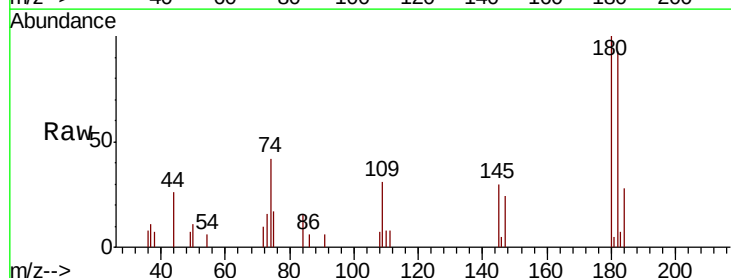


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 1.897 ug/L
RT: 14.34 min Scan# 4044
Delta R.T. 0.00 min
Lab File: VU036708.D
Acq: 10 Feb 2020 13:13

Tgt Ion:180 Resp: 3590
Ion Ratio Lower Upper
180 100
182 90.0 76.8 115.2
145 31.9 27.5 41.3



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

