

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111219\
 Data File : VU035699.D
 Acq On : 12 Nov 2019 16:39
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 13 00:46:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM103119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 13 00:43:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	677345	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	659563	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	306390	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	216657	39.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.20%
7) Chloroethane-d5	1.93	69	192573	44.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.16%
11) 1,1-Dichloroethene-d2	2.60	63	374196	43.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.96%
21) 2-Butanone-d5	4.69	46	334984	104.83	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.83%
24) Chloroform-d	5.11	84	416672	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
26) 1,2-Dichloroethane-d4	5.75	65	246054	47.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.08%
32) Benzene-d6	5.77	84	833116	48.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.92%
36) 1,2-Dichloropropane-d6	6.73	67	274978	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.64%
41) Toluene-d8	7.93	98	783048	48.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.58%
43) trans-1,3-Dichloropropene-	8.21	79	127963	49.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.66%
47) 2-Hexanone-d5	8.68	63	229789	107.54	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.54%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	409286	51.62	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.24%
64) 1,2-Dichlorobenzene-d4	12.22	152	299833	48.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.04%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.40	85	256758	48.606	ug/L	100
3) Chloromethane	1.54	50	285354	49.567	ug/L	98
5) Vinyl chloride	1.62	62	311100	50.223	ug/L	99
6) Bromomethane	1.87	94	174919	55.751	ug/L	96
8) Chloroethane	1.95	64	183810	51.019	ug/L	99
9) Trichlorofluoromethane	2.16	101	380533	51.860	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	222356	52.785	ug/L	99
12) 1,1-Dichloroethene	2.61	96	213976	51.715	ug/L	97
13) Acetone	2.67	43	293688	104.458	ug/L	98
14) Carbon disulfide	2.83	76	636847	49.958	ug/L	100
15) Methyl Acetate	2.99	43	259127	50.885	ug/L	98
16) Methylene chloride	3.09	84	260036	51.507	ug/L	97
17) trans-1,2-Dichloroethene	3.39	96	226829	52.058	ug/L	98
18) Methyl tert-butyl Ether	3.42	73	702507	53.327	ug/L	99
19) 1,1-Dichloroethane	3.92	63	428621	50.995	ug/L	99
20) cis-1,2-Dichloroethene	4.72	96	257660	52.427	ug/L	96
22) 2-Butanone	4.77	43	396149	106.737	ug/L	98

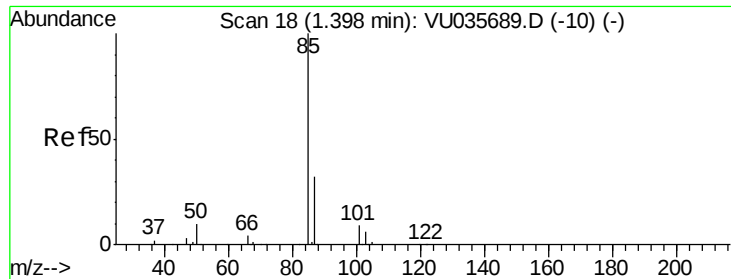
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.03	128	139078	53.553	ug/L	94
25) Chloroform	5.14	83	441830	51.758	ug/L	99
27) 1,2-Dichloroethane	5.84	62	312038	50.034	ug/L	100
29) Cyclohexane	5.43	56	363945	54.099	ug/L	98
30) 1,1,1-Trichloroethane	5.37	97	362429	52.281	ug/L	99
31) Carbon tetrachloride	5.57	117	328023	53.216	ug/L	99
33) Benzene	5.82	78	987423	53.269	ug/L	100
34) Trichloroethene	6.58	95	245208	52.034	ug/L	99
35) Methylcyclohexane	6.80	83	366354	53.528	ug/L	98
37) 1,2-Dichloropropane	6.84	63	259319	52.240	ug/L	100
38) Bromodichloromethane	7.15	83	326322	51.718	ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	386560	52.391	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	660874	99.516	ug/L	98
42) Toluene	8.01	91	1080293	55.605	ug/L	99
44) trans-1,3-Dichloropropene	8.25	75	362583	53.610	ug/L	98
45) 1,1,2-Trichloroethane	8.44	97	255434	53.686	ug/L	99
46) Tetrachloroethene	8.58	164	215107	54.590	ug/L	98
48) 2-Hexanone	8.73	43	545640	101.037	ug/L	95
49) Dibromochloromethane	8.84	129	285301	53.172	ug/L	98
50) 1,2-Dibromoethane	8.96	107	266931	52.583	ug/L	99
51) Chlorobenzene	9.48	112	686021	52.894	ug/L	100
52) Ethylbenzene	9.60	91	1125463	54.188	ug/L	99
53) m,p-Xylene	9.72	106	437309	56.112	ug/L	98
54) o-xylene	10.13	106	430067	56.459	ug/L	99
55) Styrene	10.14	104	708000	56.006	ug/L	99
56) Isopropylbenzene	10.51	105	1073786	56.096	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	422361	51.536	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	334275	51.645	ug/L	99
61) Bromoform	10.32	173	224798	48.093	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	478779	49.534	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	473523	48.225	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	478803	48.658	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	69040	45.252	ug/L	95
67) 1,3,5-Trichlorobenzene	13.24	180	258603	46.311	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	137235	36.688	ug/L	99
69) Naphthalene	14.11	128	315527	32.886	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	148365	36.812	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 48.606 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

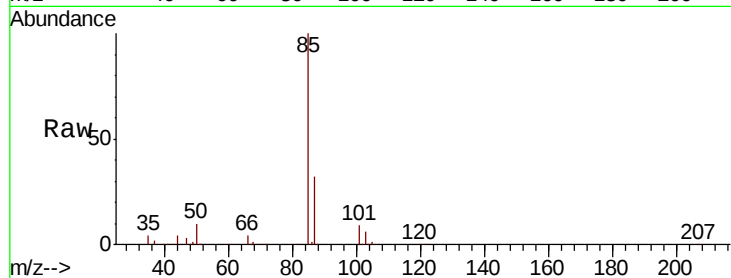
ClientSampleId :

Tot Ion: 85 Resp: 256758

Ion Ratio Lower Upper

85 100

87 31.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU035689.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035689.D (-10) (-)

1.40

250000

200000

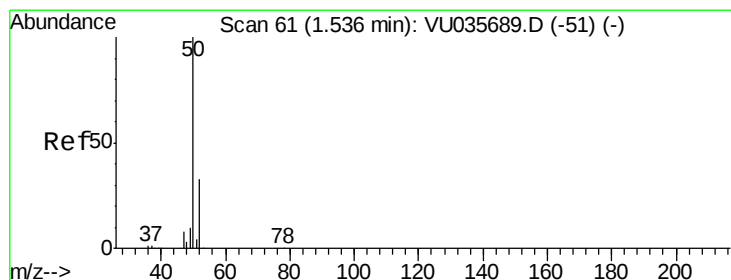
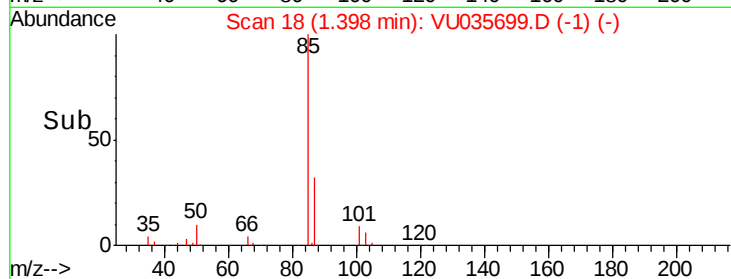
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 49.567 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035699.D

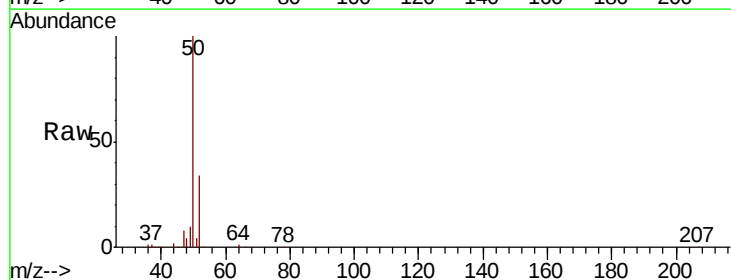
Acq: 12 Nov 2019 16:39

Tgt Ion: 50 Resp: 285354

Ion Ratio Lower Upper

50 100

52 34.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU035689.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU035689.D (-51) (-)

1.54

300000

250000

200000

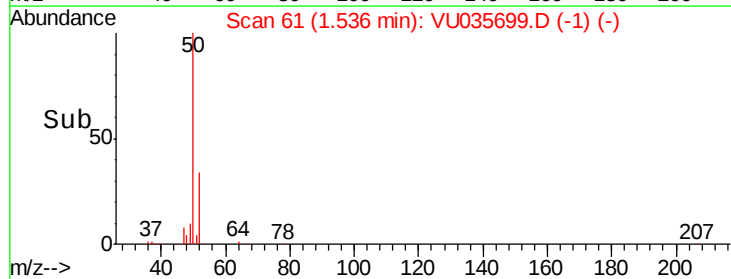
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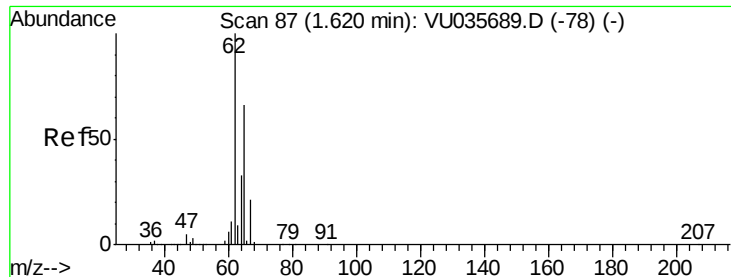
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 50.223 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

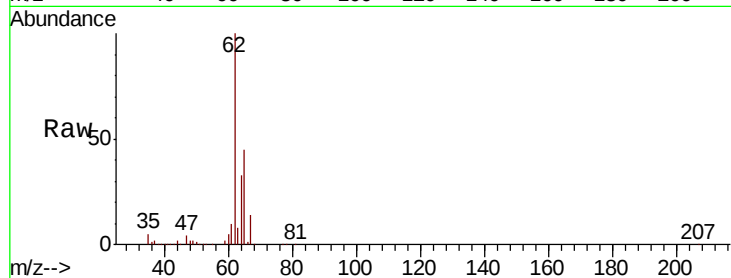
ClientSampleId :

Tot Ion: 62 Resp: 311100

Ion Ratio Lower Upper

62 100

64 33.4 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU035689.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU035689.D (-78) (-)

1.62

300000

250000

200000

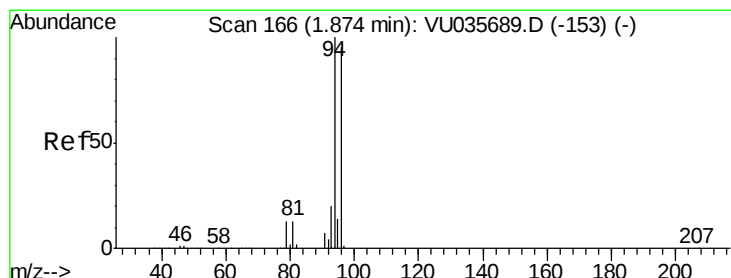
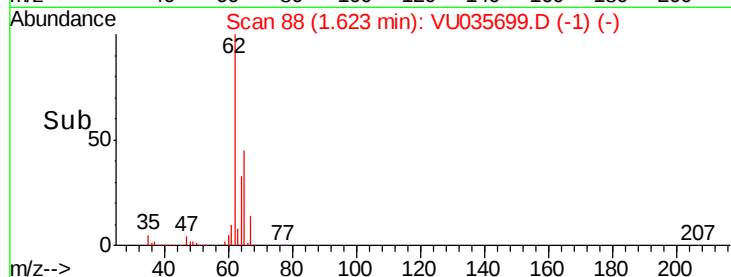
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 55.751 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035699.D

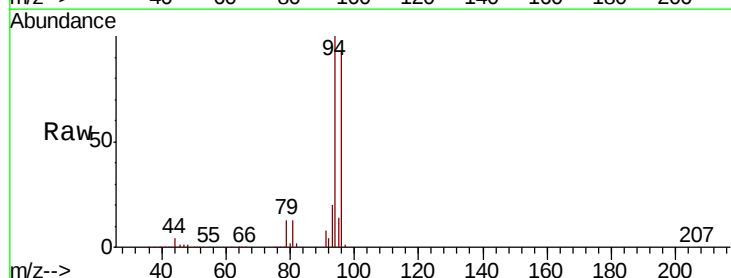
Acq: 12 Nov 2019 16:39

Tgt Ion: 94 Resp: 174919

Ion Ratio Lower Upper

94 100

96 93.0 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VU035689.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU035689.D (-153) (-)

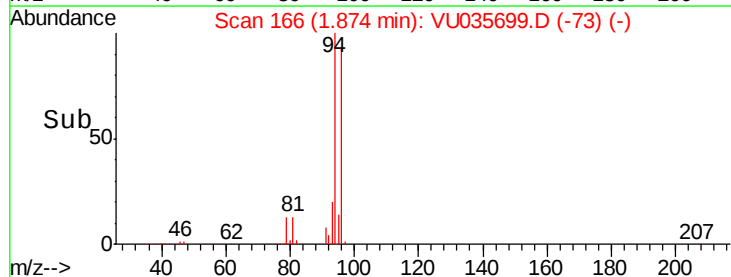
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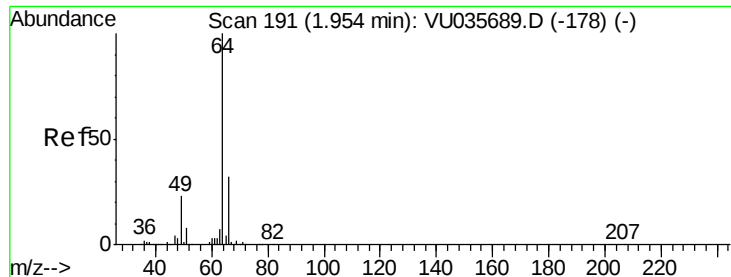
100000

50000

0

Time-->





#8

Chloroethane

Concen: 51.019 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

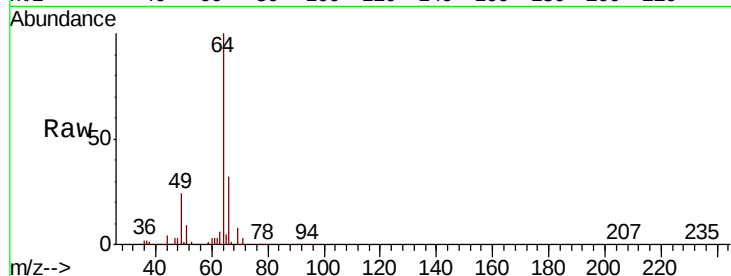
ClientSampleId :

Tot Ion: 64 Resp: 183810

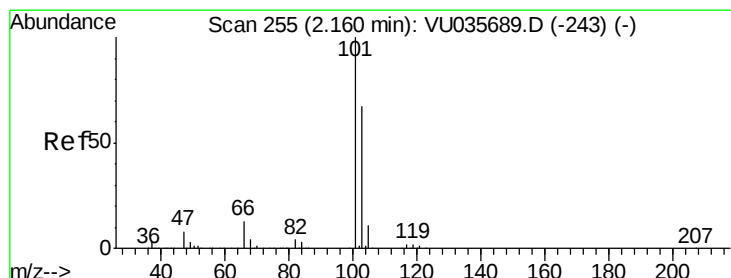
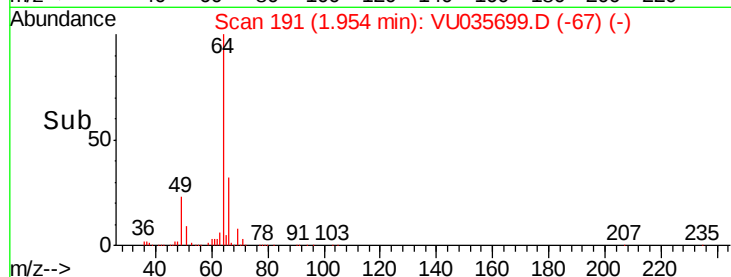
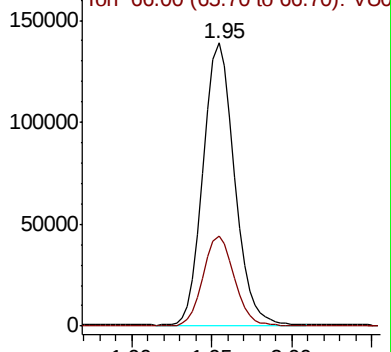
Ion Ratio Lower Upper

64 100

66 31.8 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VU035689.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 51.860 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035699.D

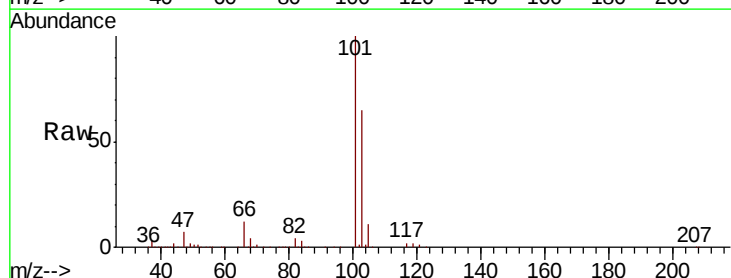
Acq: 12 Nov 2019 16:39

Tgt Ion: 101 Resp: 380533

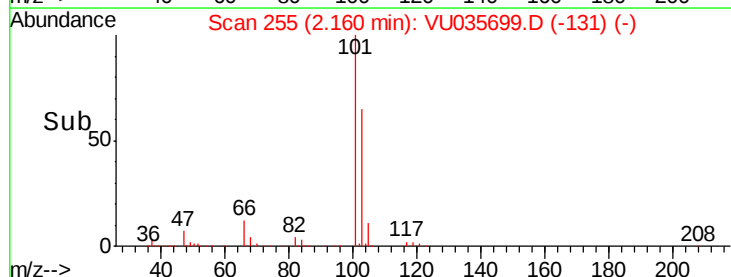
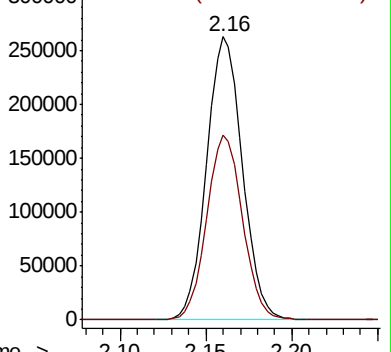
Ion Ratio Lower Upper

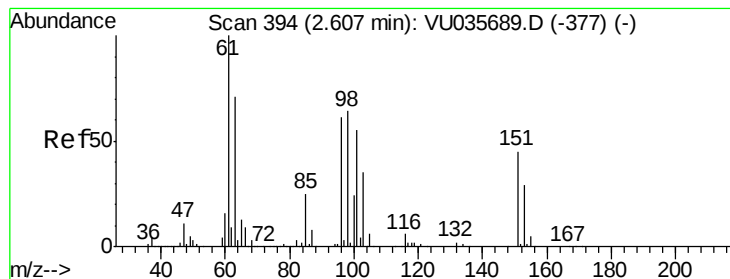
101 100

103 65.4 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU035689.D (-243) (-)





#10

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

Concen: 52.785 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

ClientSampleId :

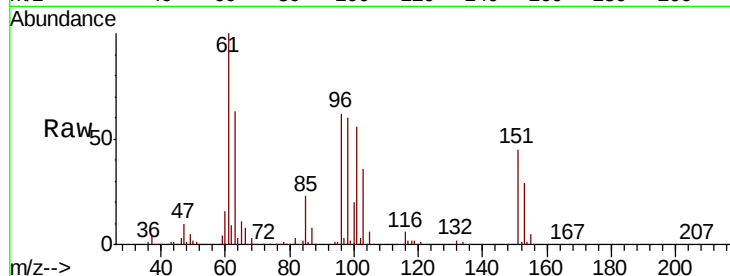
Tot Ion:101 Resp: 222356

Ion Ratio Lower Upper

101 100

85 41.7 34.0 51.0

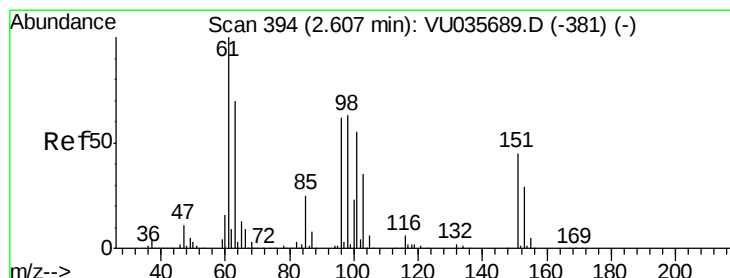
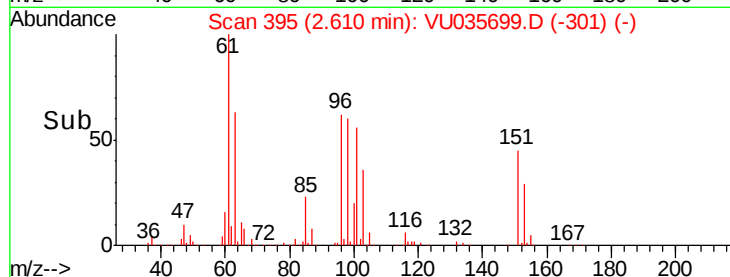
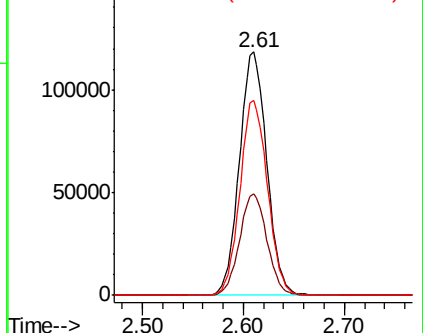
151 80.5 64.2 96.4



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: 51.715 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

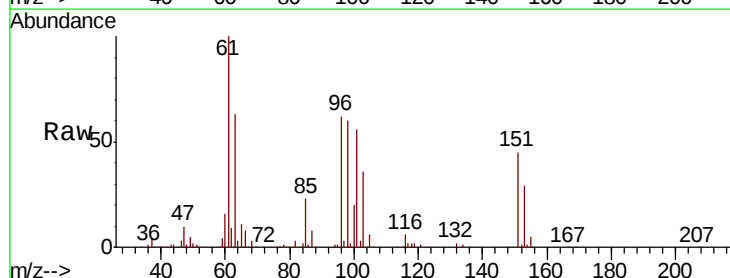
Tgt Ion: 96 Resp: 213976

Ion Ratio Lower Upper

96 100

61 161.3 113.1 210.1

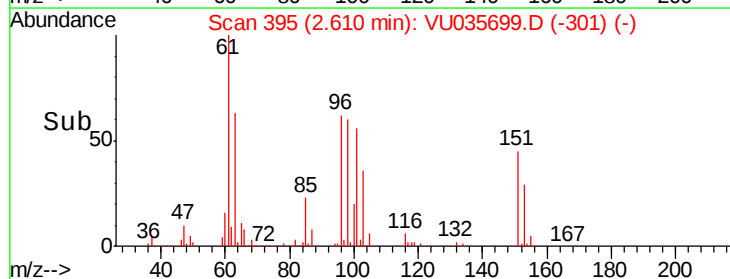
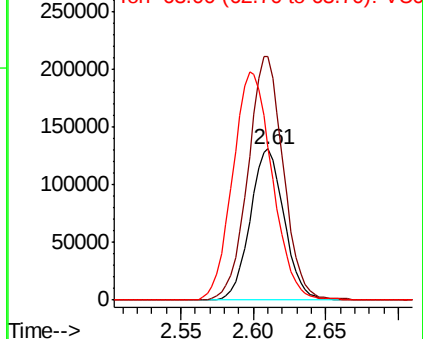
63 101.3 76.2 141.4

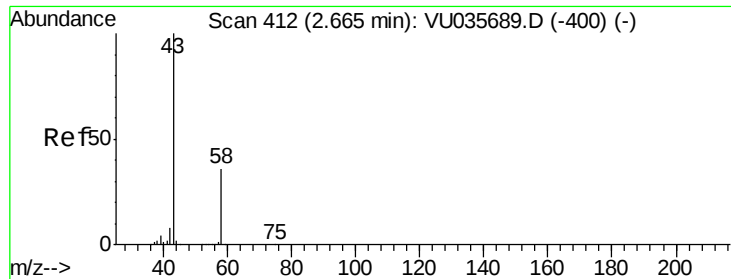


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 104.458 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

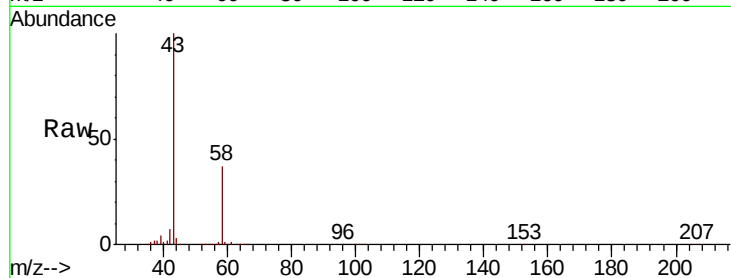
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 293688

Ion Ratio Lower Upper

43 100

58 36.2 0.0 70.0



Abundance Ion 43.00 (42.70 to 43.70): VU035699.D (-400) (-)

Ion 58.00 (57.70 to 58.70): VU035699.D (-400) (-)

200000

150000

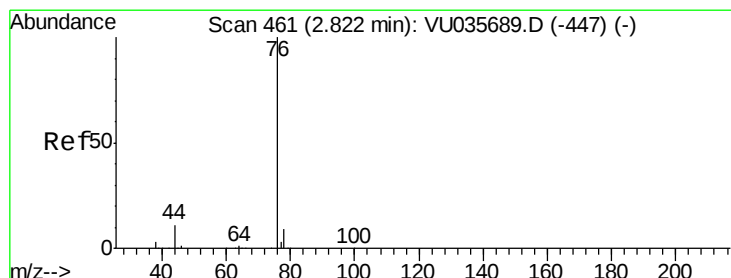
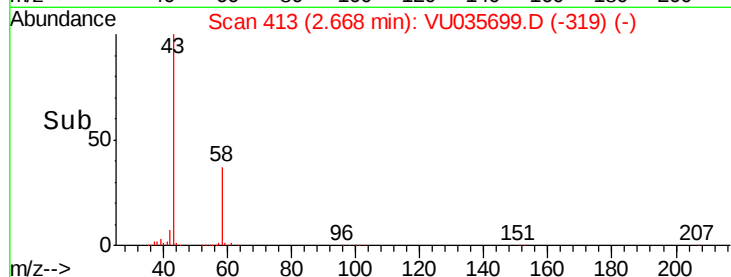
100000

50000

0

2.60 2.67 2.70 2.80

Time-->



#14

Carbon disulfide

Concen: 49.958 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035699.D

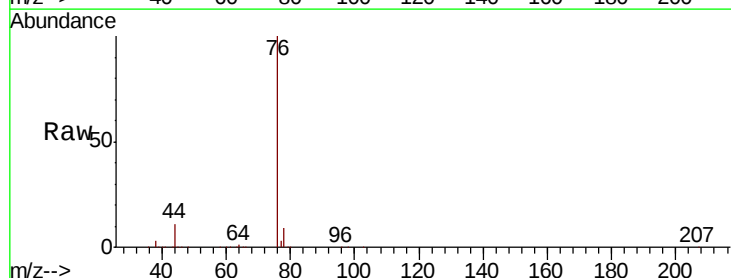
Acq: 12 Nov 2019 16:39

Tgt Ion: 76 Resp: 636847

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU035699.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU035699.D (-447) (-)

400000

300000

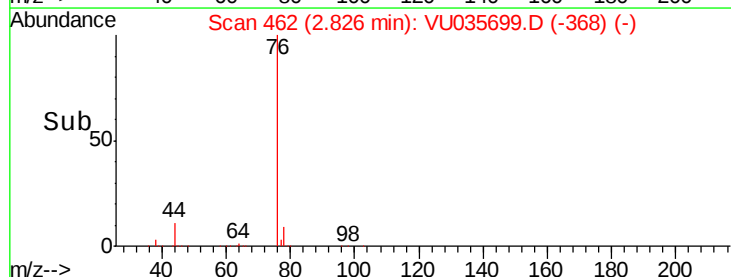
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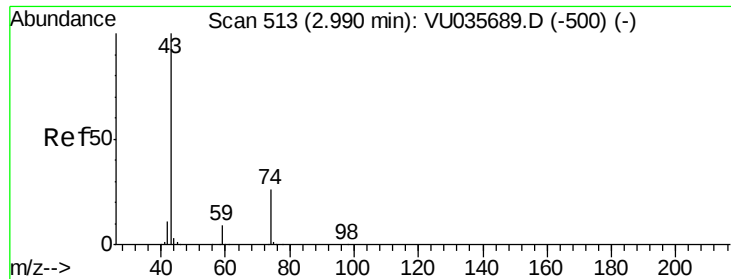
100000

0

2.80 2.83 2.90

Time-->

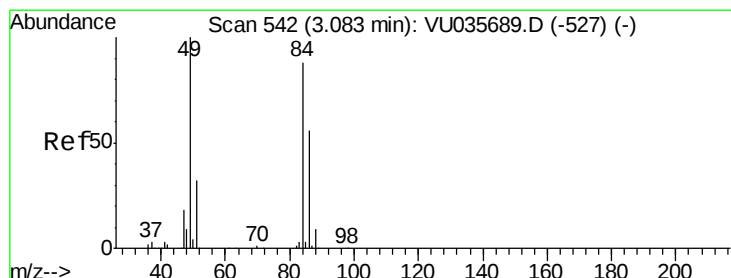
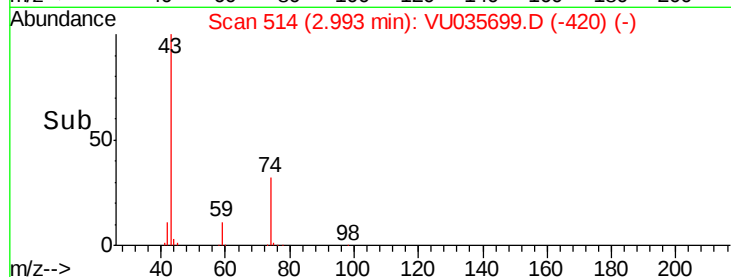
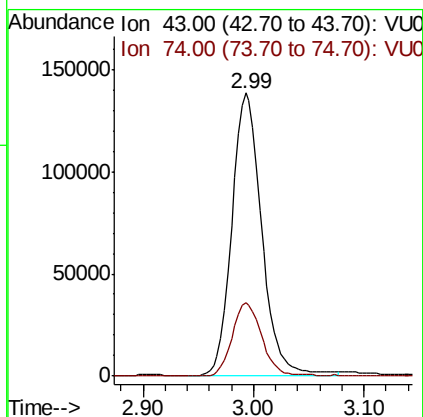
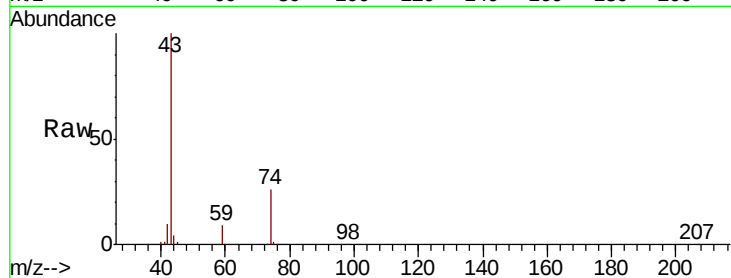




#15
Methvl Acetate
Concen: 50.885 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

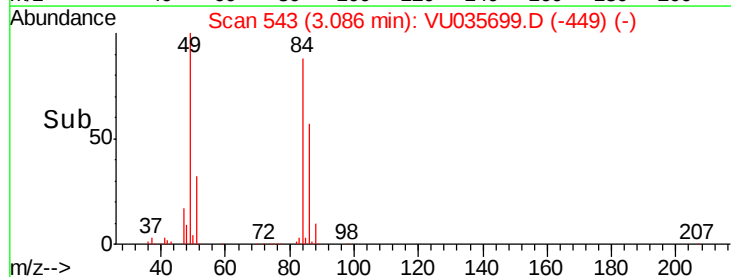
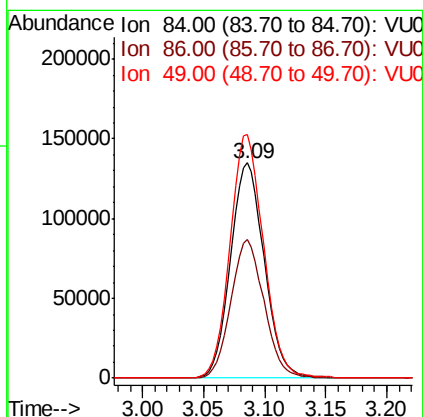
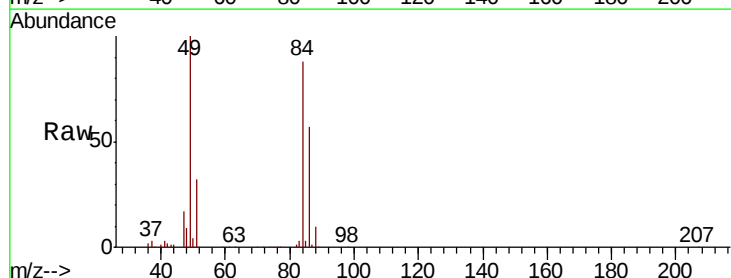
Instrument :
MSVOA_U
ClientSampleId :

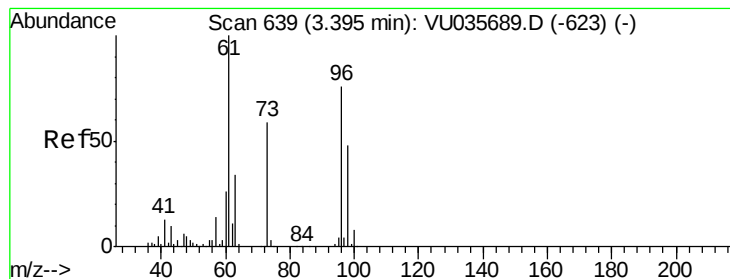
Tot Ion: 43 Resp: 259127
Ion Ratio Lower Upper
43 100
74 25.9 19.8 29.6



#16
Methylene chloride
Concen: 51.507 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Tgt Ion: 84 Resp: 260036
Ion Ratio Lower Upper
84 100
86 64.3 45.1 83.7
49 113.2 82.7 153.5





#17

trans-1,2-Dichloroethene

Concen: 52.058 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

ClientSampleId :

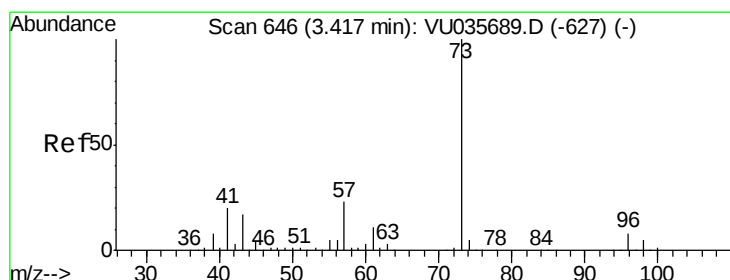
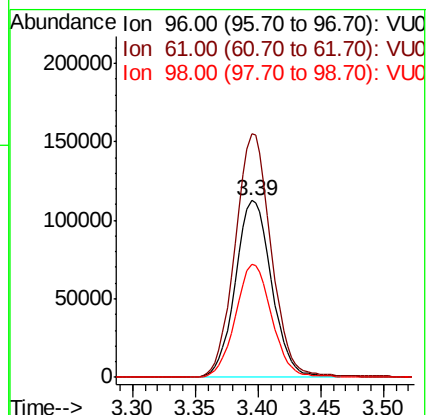
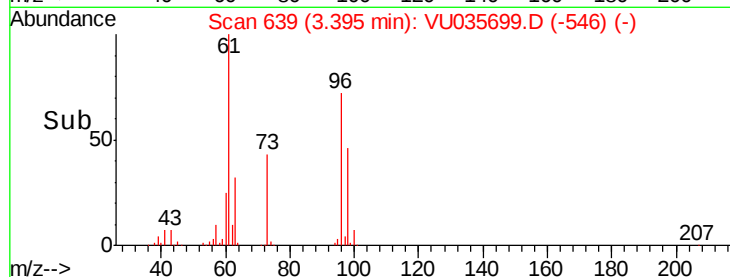
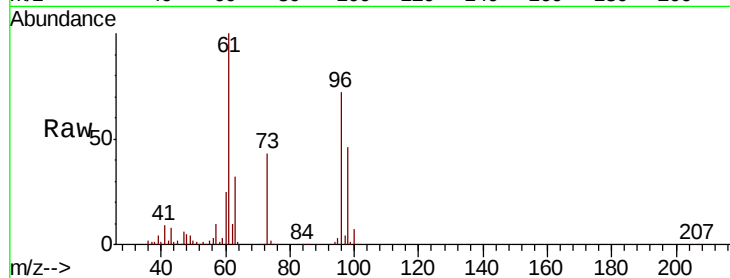
Tot Ion: 96 Resp: 226829

Ion Ratio Lower Upper

96 100

61 138.0 95.3 176.9

98 64.0 44.0 81.8



#18

Methyl tert-butyl Ether

Concen: 53.327 ug/L

RT: 3.42 min Scan# 647

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

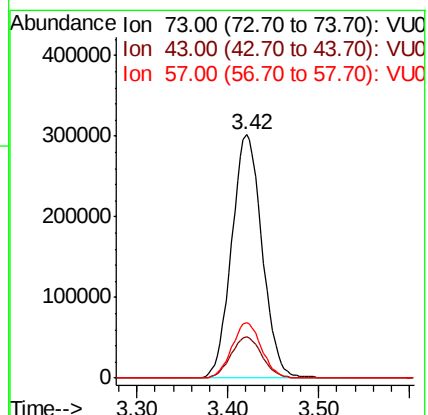
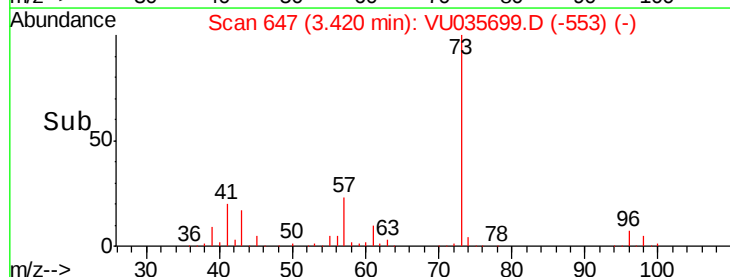
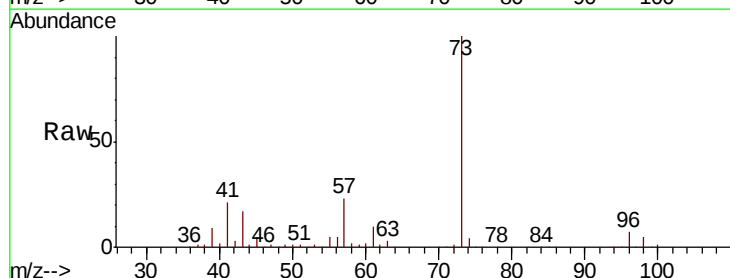
Tgt Ion: 73 Resp: 702507

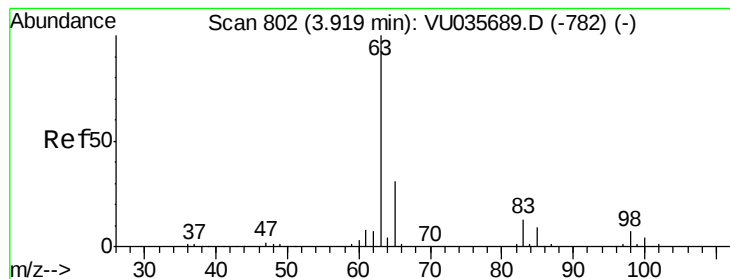
Ion Ratio Lower Upper

73 100

43 17.1 14.2 21.2

57 22.2 18.3 27.5





#19

1,1-Dichloroethane

Concen: 50.995 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

ClientSampleId :

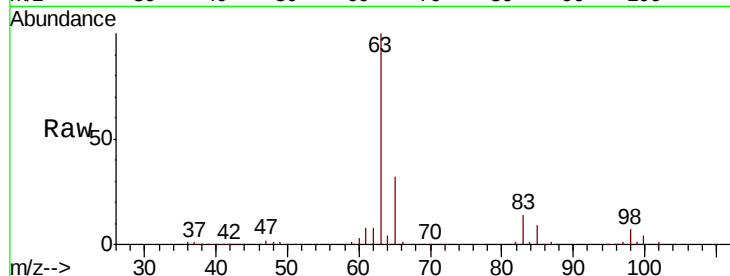
Tot Ion: 63 Resp: 428621

Ion Ratio Lower Upper

63 100

65 32.4 22.1 41.1

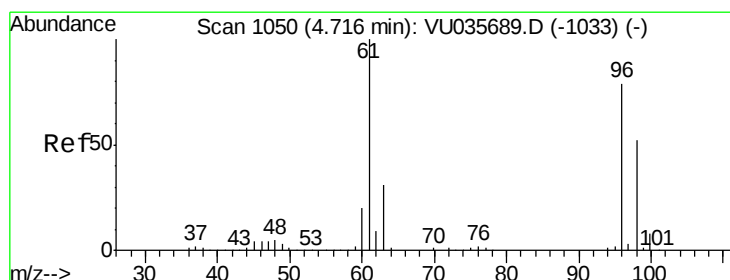
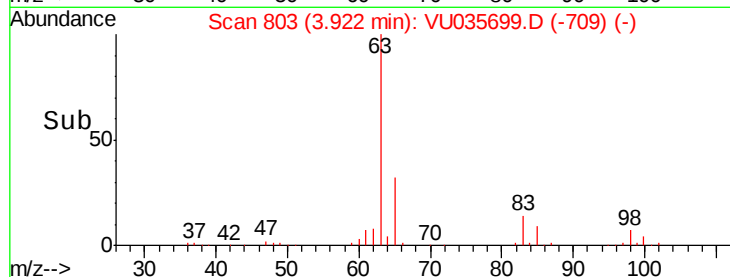
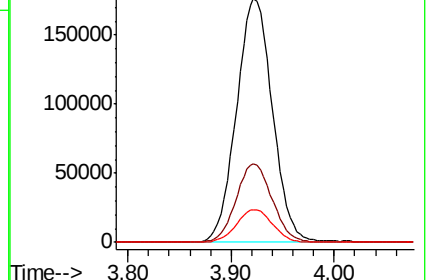
83 13.6 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU035689.D (-782) (-)

Ion 65.00 (64.70 to 65.70): VU035689.D (-782) (-)

Ion 83.00 (82.70 to 83.70): VU035689.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.427 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

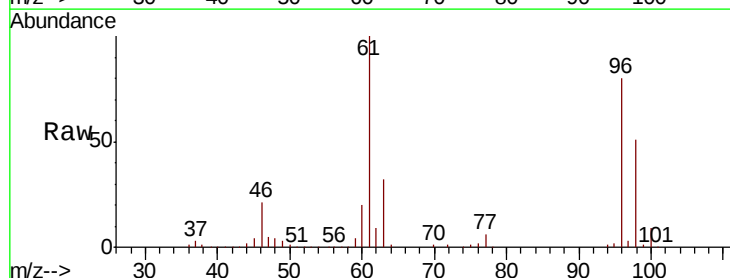
Tgt Ion: 96 Resp: 257660

Ion Ratio Lower Upper

96 100

61 124.7 90.6 168.3

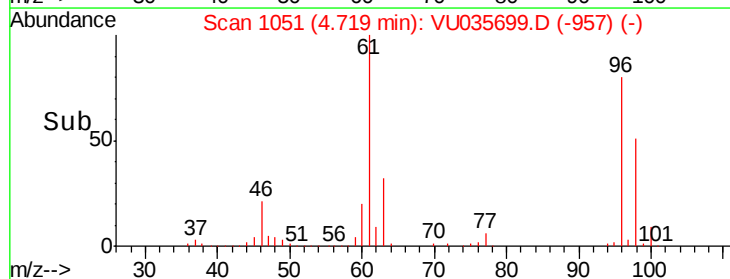
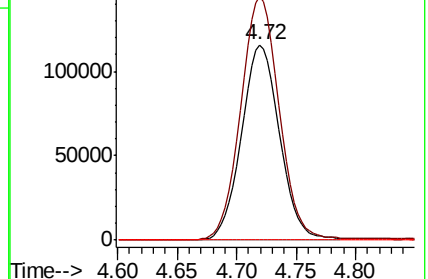
68 0.0 0.0 0.0

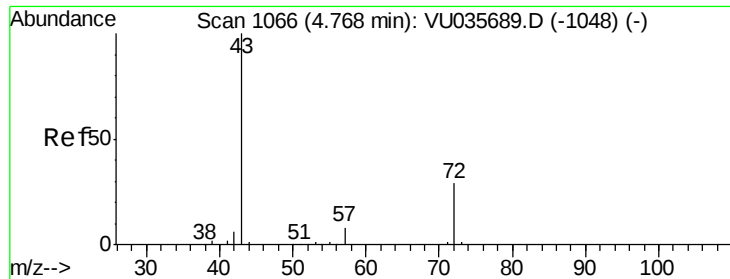


Abundance Ion 96.00 (95.70 to 96.70): VU035689.D (-1033) (-)

Ion 61.00 (60.70 to 61.70): VU035689.D (-1033) (-)

Ion 68.00 (67.70 to 68.70): VU035689.D (-1033) (-)





#22

2-Butanone

Concen: 106.737 ug/L

RT: 4.77 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

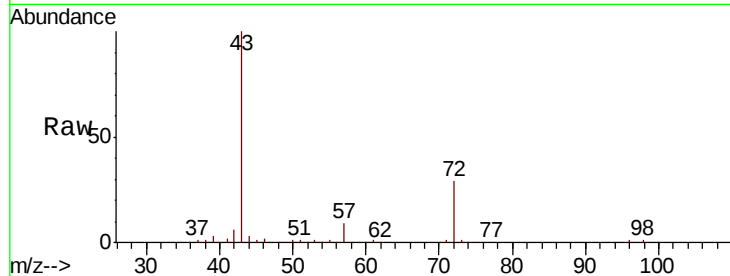
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 396149

Ion Ratio Lower Upper

43 100

72 27.9 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VU035699.D (-1048) (-)

Ion 72.00 (71.70 to 72.70): VU035699.D (-1048) (-)

4.77

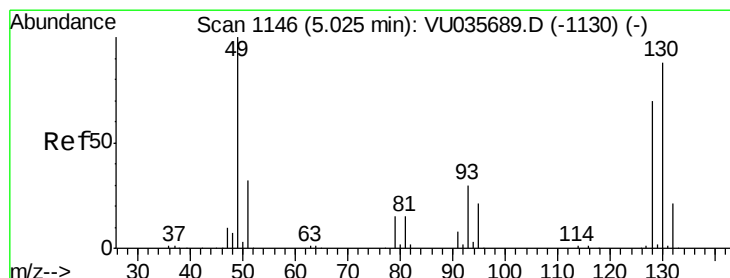
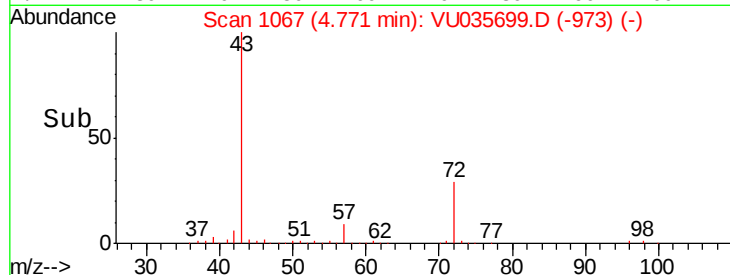
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 53.553 ug/L

RT: 5.03 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Tgt Ion:128 Resp: 139078

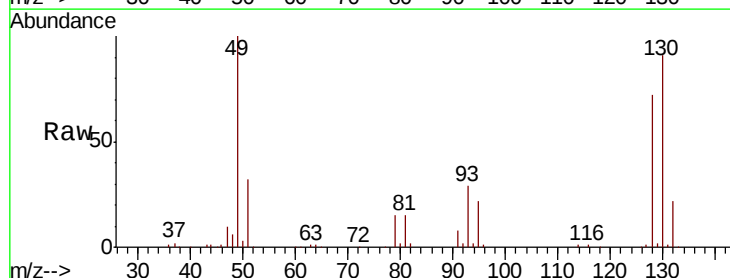
Ion Ratio Lower Upper

128 100

49 139.7 106.4 197.6

130 127.6 88.1 163.5

51 45.0 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU035699.D (-1130) (-)

Ion 49.00 (48.70 to 49.70): VU035699.D (-1130) (-)

Ion 130.00 (129.70 to 130.70): VU035699.D (-1130) (-)

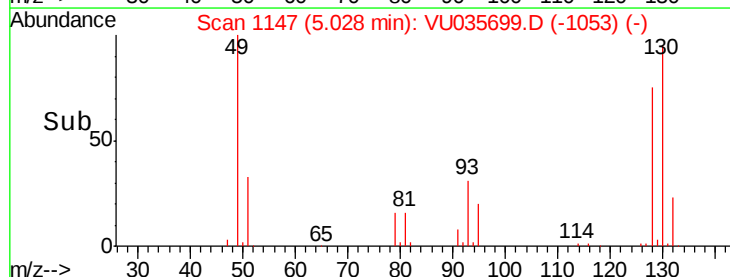
Ion 51.00 (50.70 to 51.70): VU035699.D (-1130) (-)

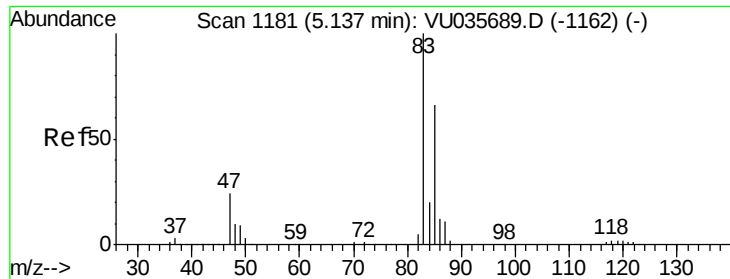
100000

50000

0

Time-->

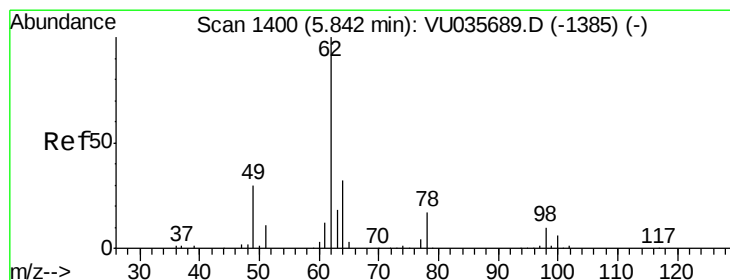
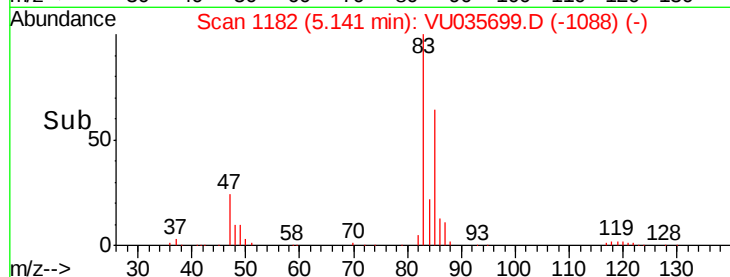
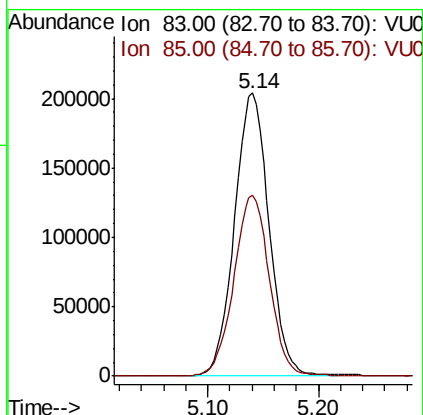
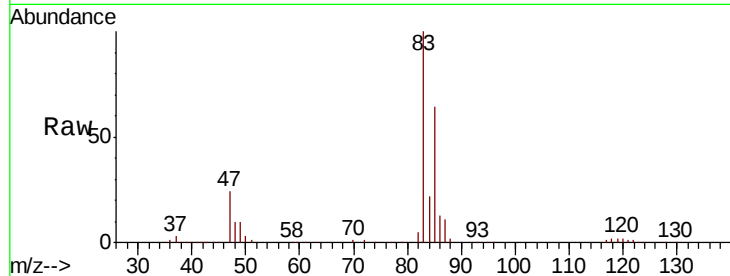




#25
Chloroform
Concen: 51.758 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

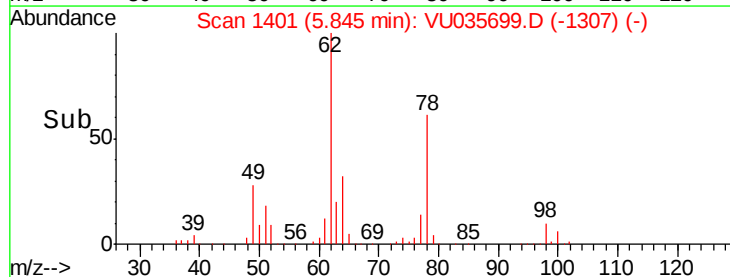
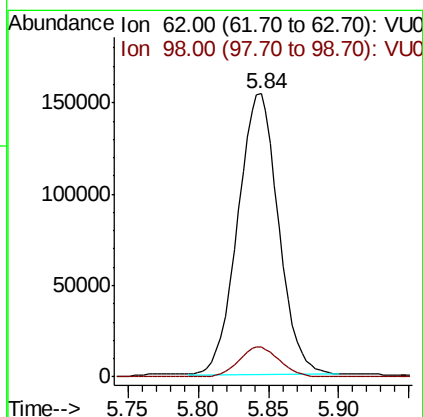
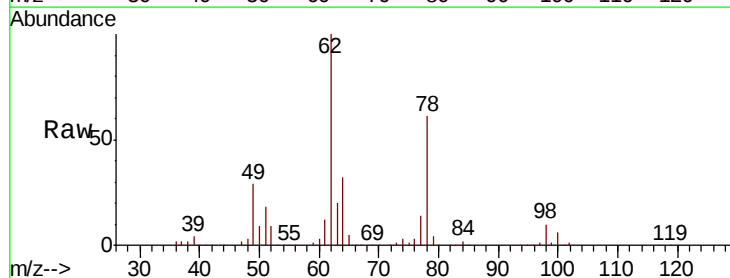
Instrument :
MSVOA_U
ClientSampleId :

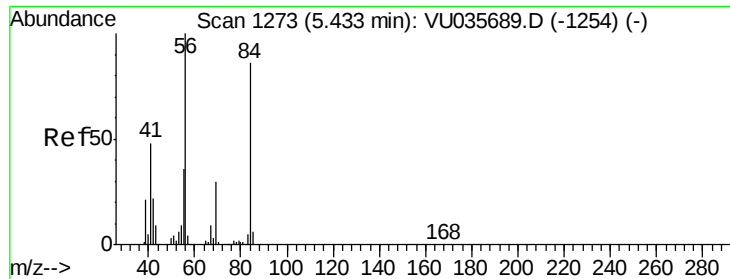
Tot Ion: 83 Resp: 441830
Ion Ratio Lower Upper
83 100
85 64.1 45.4 84.4



#27
1,2-Dichloroethane
Concen: 50.034 ug/L
RT: 5.84 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Tgt Ion: 62 Resp: 312038
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.2

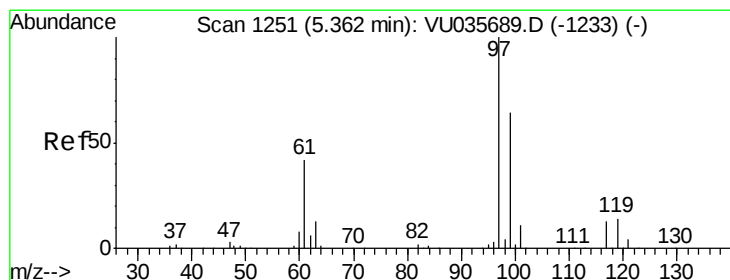
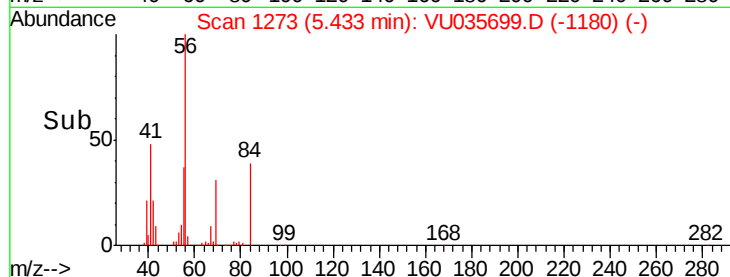
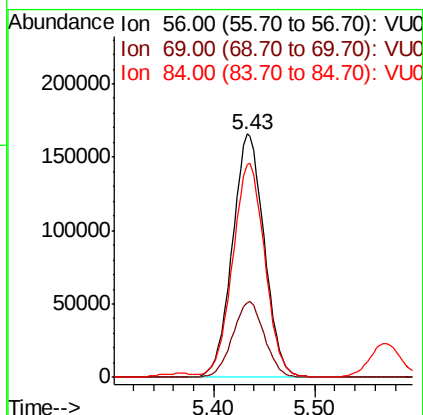
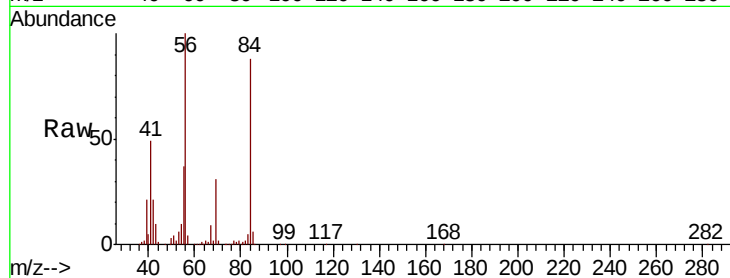




#29
Cyclohexane
Concen: 54.099 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

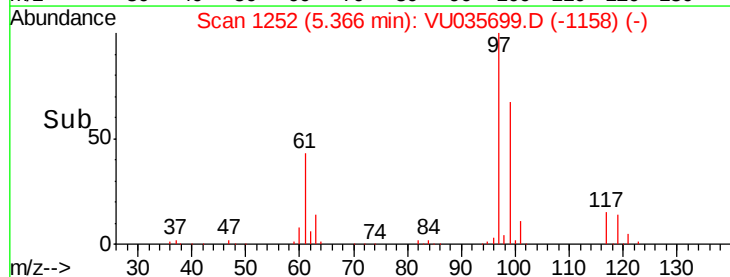
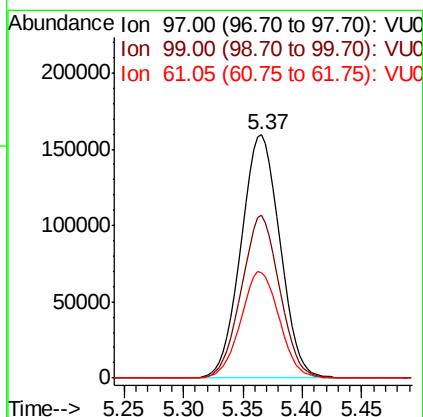
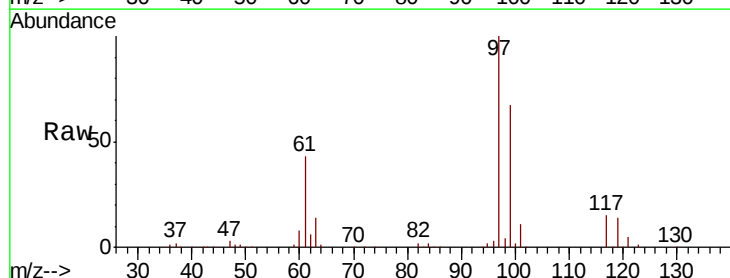
Instrument :
MSVOA_U
ClientSampleId :

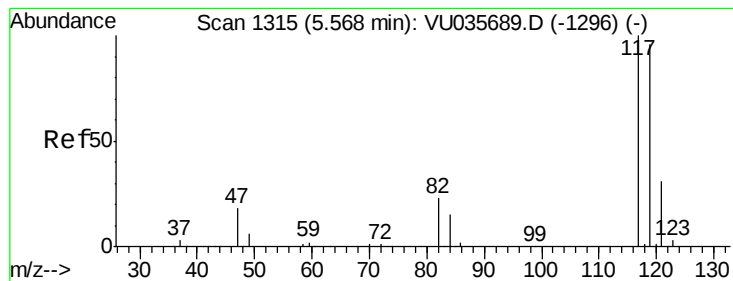
Tot Ion: 56 Resp: 363945
Ion Ratio Lower Upper
56 100
69 31.1 24.4 36.6
84 88.0 68.6 102.8



#30
1,1,1-Trichloroethane
Concen: 52.281 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Tgt Ion: 97 Resp: 362429
Ion Ratio Lower Upper
97 100
99 65.6 51.5 77.3
61 43.2 35.1 52.7





#31

Carbon tetrachloride

Concen: 53.216 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

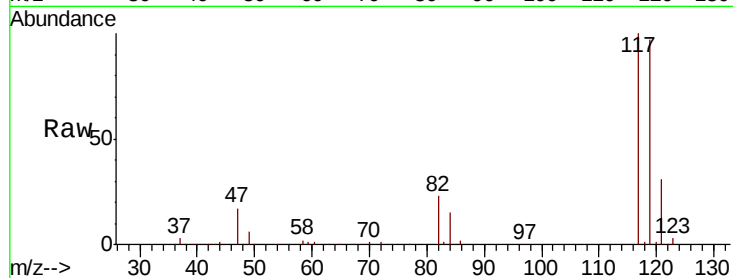
ClientSampleId :

Tot Ion:117 Resp: 328023

Ion Ratio Lower Upper

117 100

119 95.9 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.57

150000

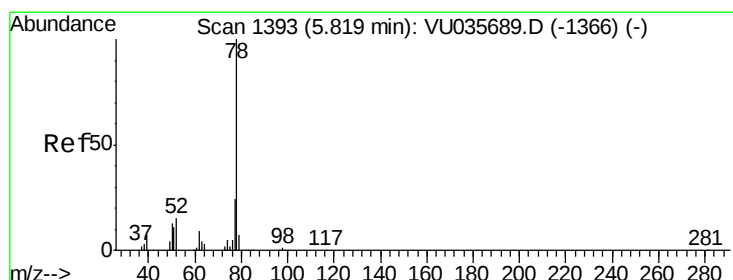
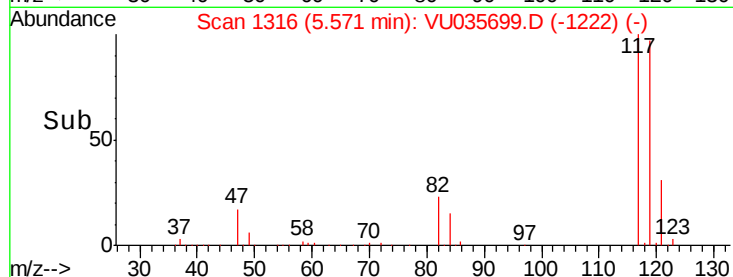
100000

50000

0

Time-->

5.50 5.60



#33

Benzene

Concen: 53.269 ug/L

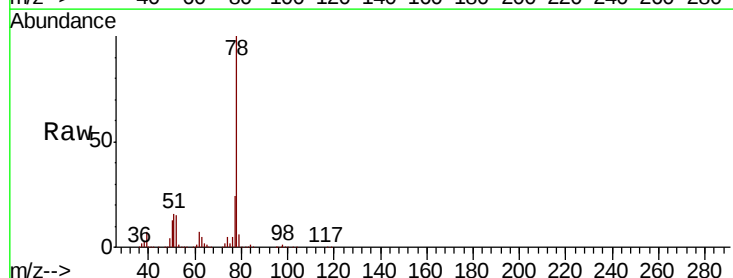
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Tgt Ion: 78 Resp: 987423



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.82

500000

400000

300000

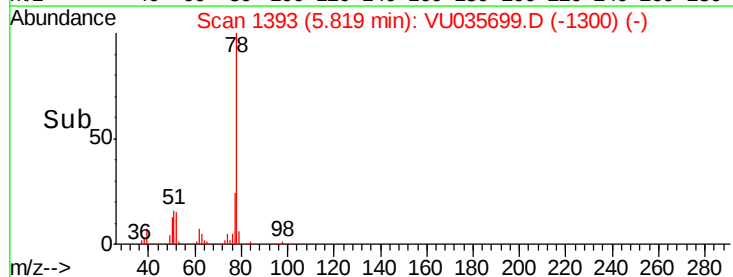
200000

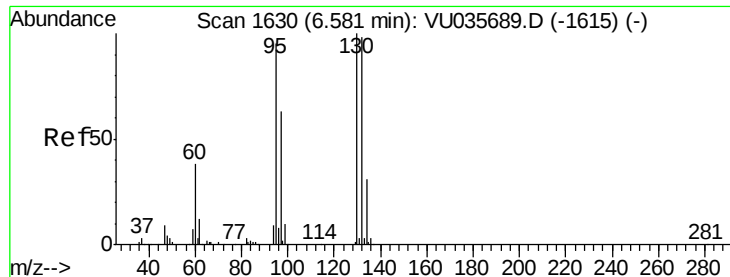
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 52.034 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 245208

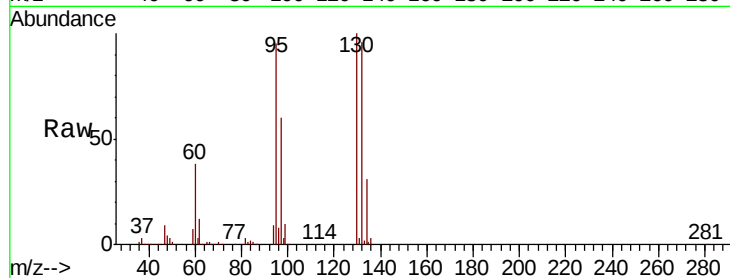
Ion Ratio Lower Upper

95 100

97 62.7 45.6 84.6

132 100.5 69.9 129.7

130 105.1 73.1 135.7

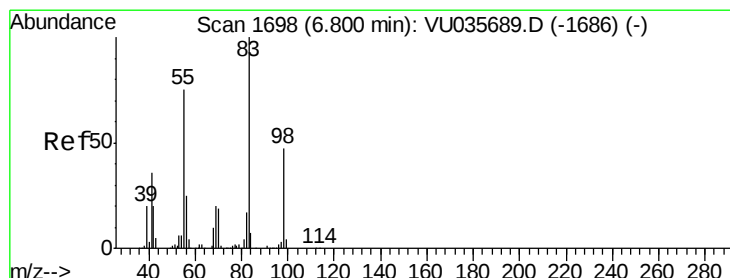
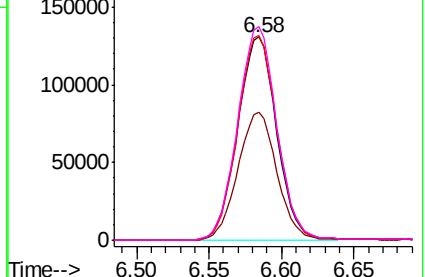
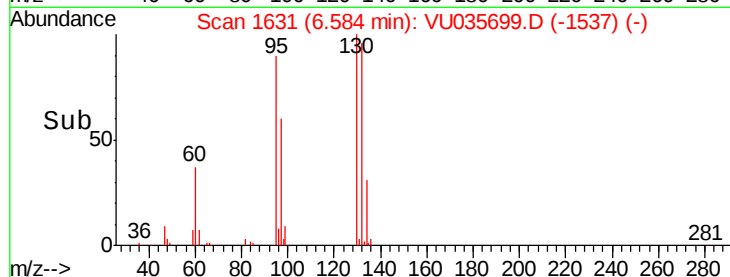


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 53.528 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

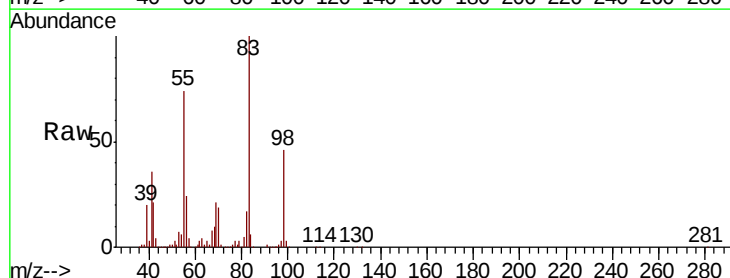
Tgt Ion: 83 Resp: 366354

Ion Ratio Lower Upper

83 100

55 74.0 61.0 91.4

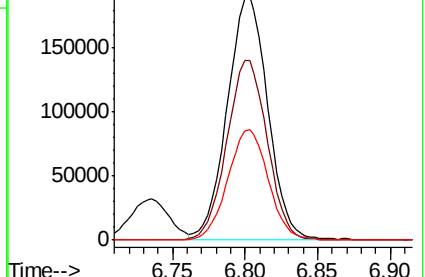
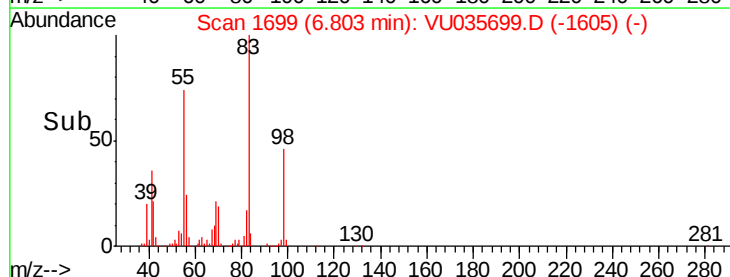
98 45.6 36.6 54.8

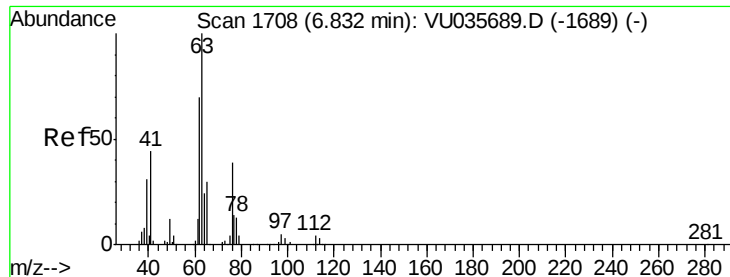


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.240 ug/L

RT: 6.84 min Scan# 1709

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

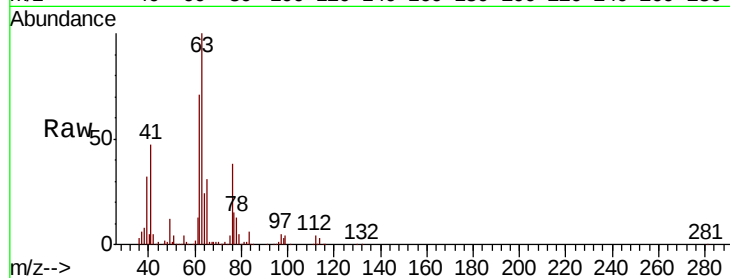
ClientSampleId :

Tot Ion: 63 Resp: 259319

Ion Ratio Lower Upper

63 100

112 4.1 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VU035689.D (-1689) (-)

Ion 112.00 (111.70 to 112.70): VU035689.D (-1689) (-)

6.84

150000

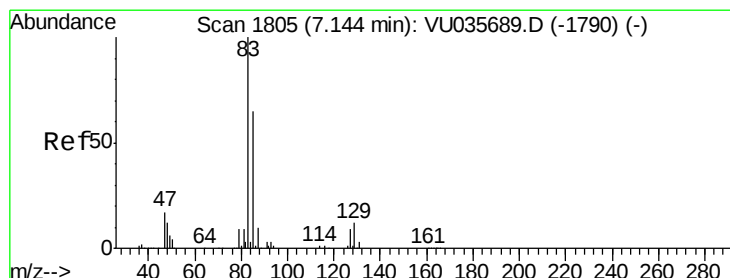
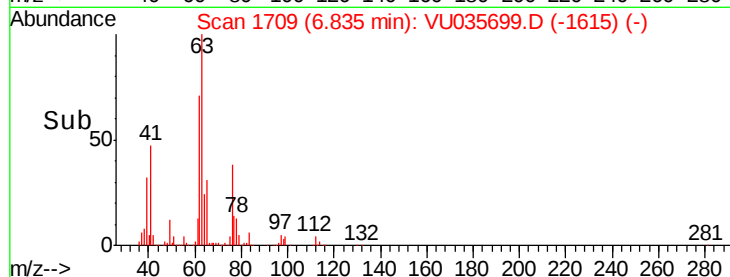
100000

50000

0

6.80 6.90

Time-->



#38

Bromodichloromethane

Concen: 51.718 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

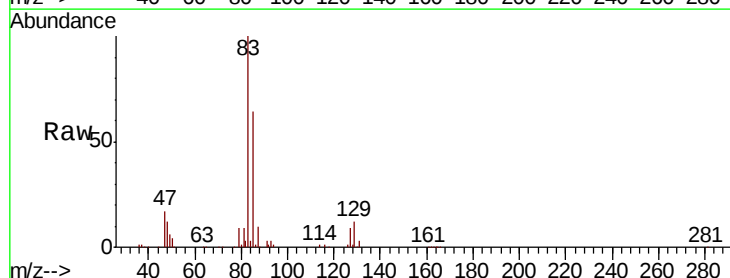
Tgt Ion: 83 Resp: 326322

Ion Ratio Lower Upper

83 100

85 63.9 45.1 83.7

127 9.2 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU035689.D (-1790) (-)

Ion 85.00 (84.70 to 85.70): VU035689.D (-1790) (-)

Ion 127.00 (126.70 to 127.70): VU035689.D (-1790) (-)

7.15

200000

150000

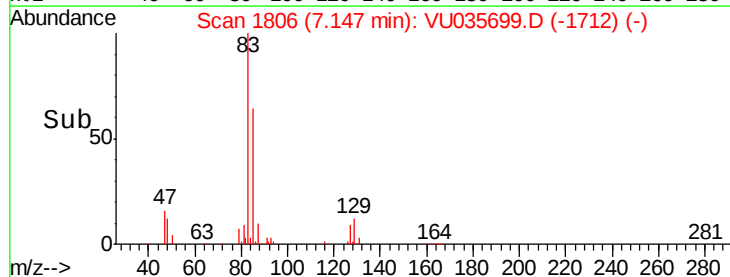
100000

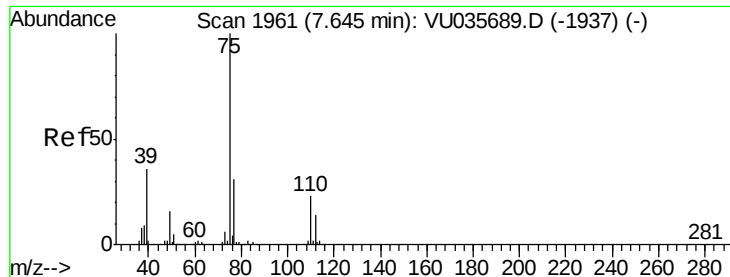
50000

0

7.05 7.10 7.15 7.20

Time-->



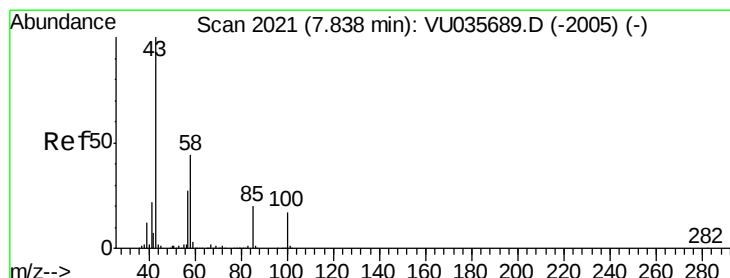
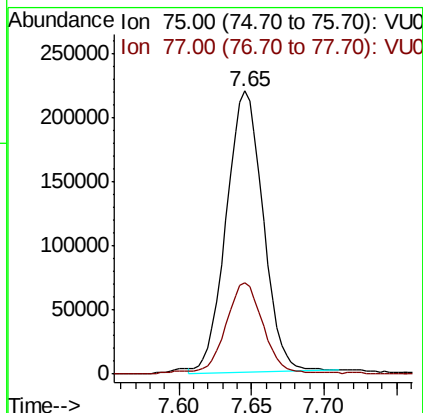
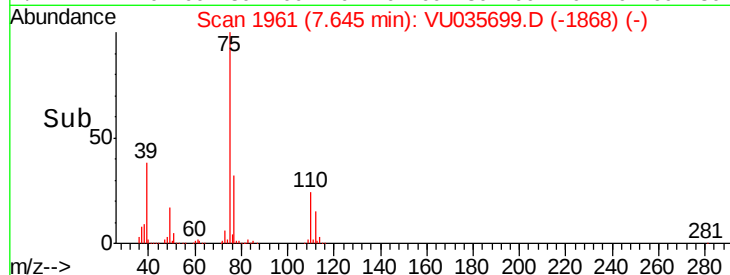
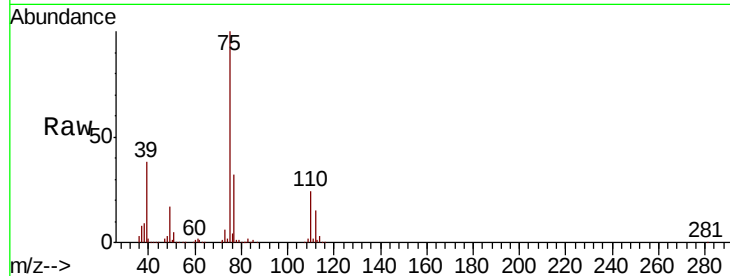


#39

cis-1,3-Dichloropropene
 Concen: 52.391 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Instrument :
 MSVOA_U
 ClientSampleId :

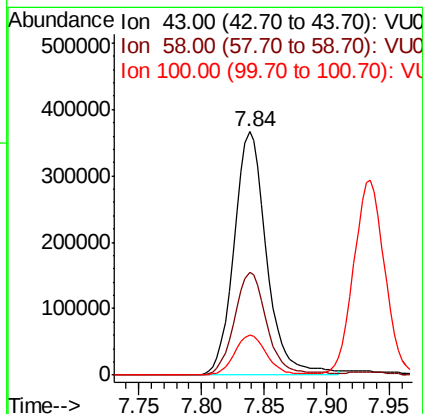
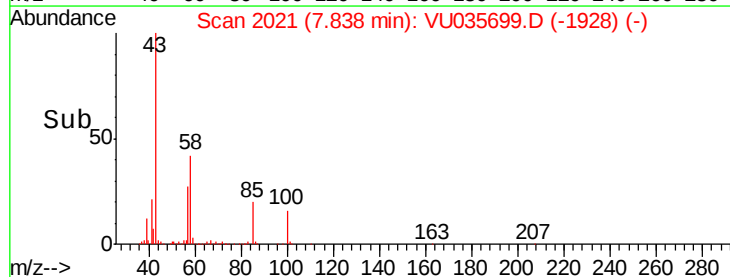
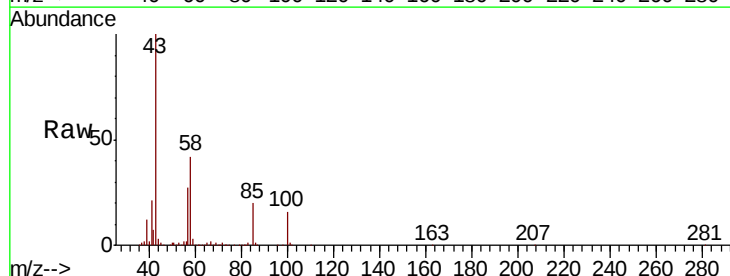
Tot Ion: 75 Resp: 386560
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.3 41.5

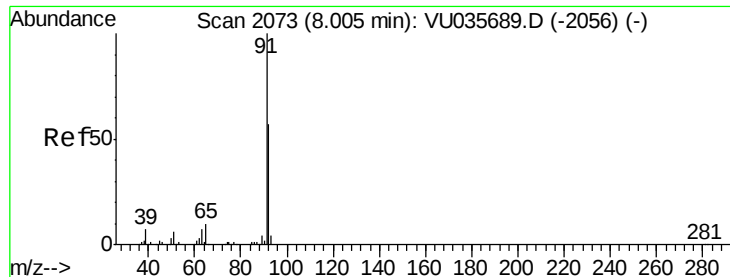


#40

4-Methyl-2-pentanone
 Concen: 99.516 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Tgt Ion: 43 Resp: 660874
 Ion Ratio Lower Upper
 43 100
 58 42.4 32.6 49.0
 100 16.5 12.6 19.0





#42

Toluene

Concen: 55.605 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

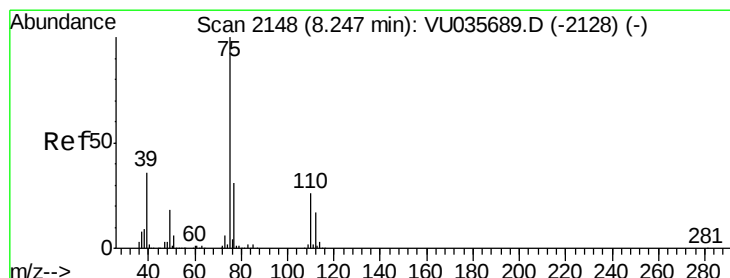
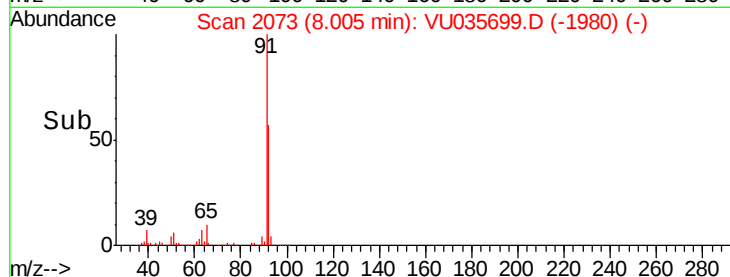
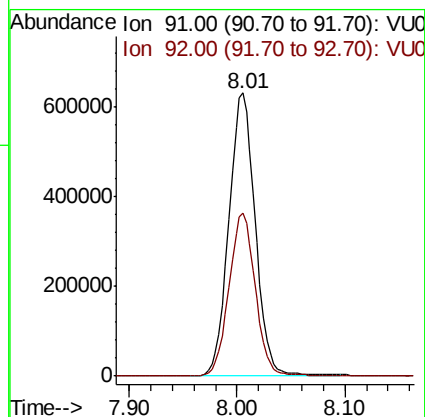
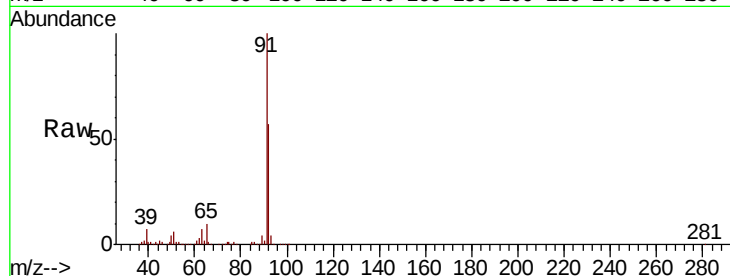
ClientSampleId :

Tot Ion: 91 Resp: 1080293

Ion Ratio Lower Upper

91 100

92 57.4 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 53.610 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VU035699.D

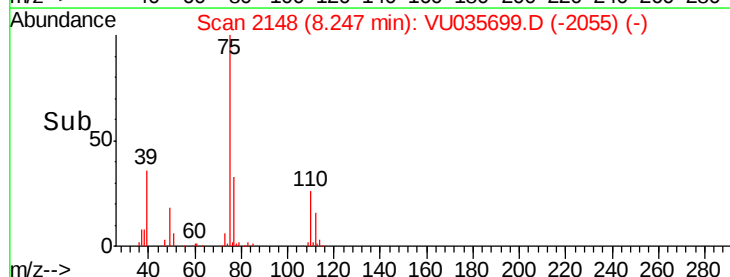
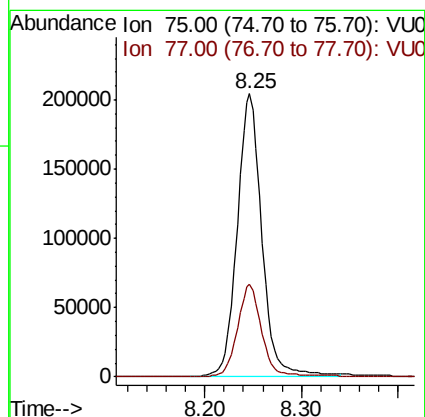
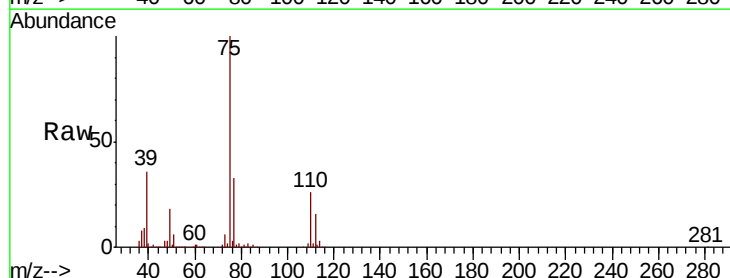
Acq: 12 Nov 2019 16:39

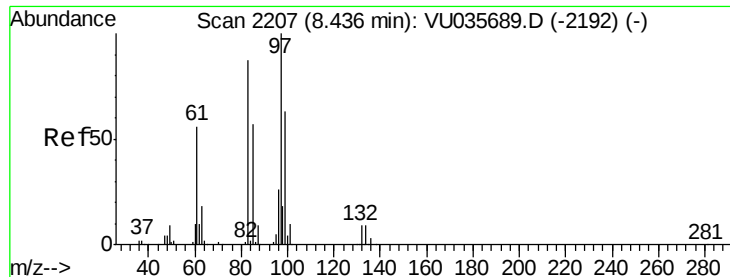
Tgt Ion: 75 Resp: 362583

Ion Ratio Lower Upper

75 100

77 32.7 22.1 41.1

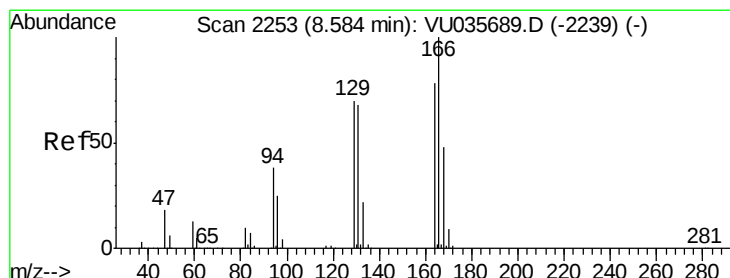
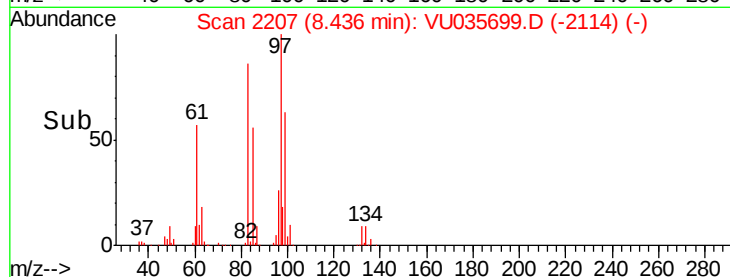
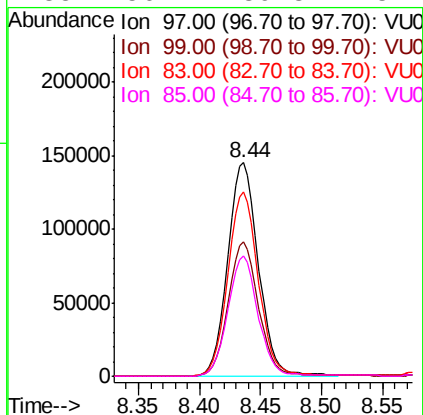
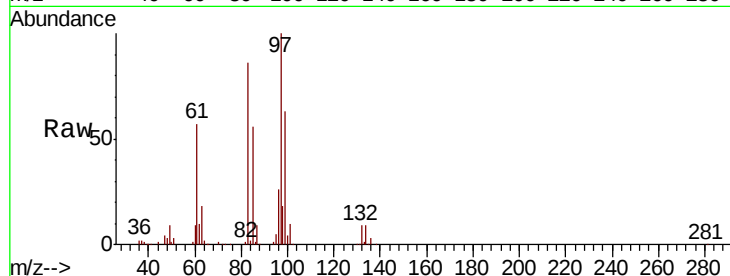




#45
 1,1,2-Trichloroethane
 Concen: 53.686 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

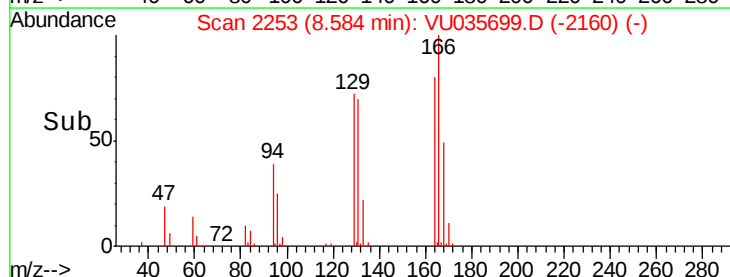
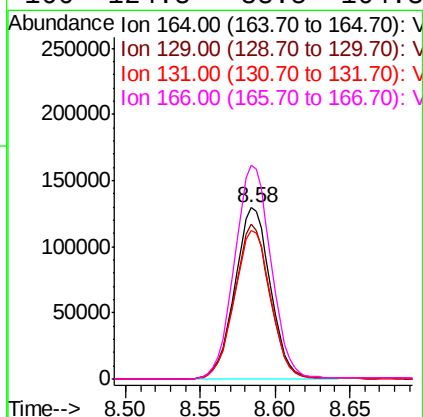
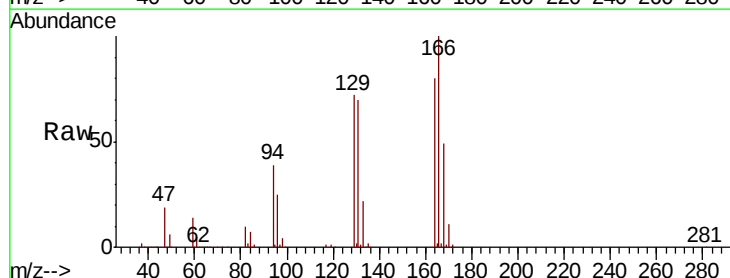
Instrument :
 MSVOA_U
 ClientSampleId :

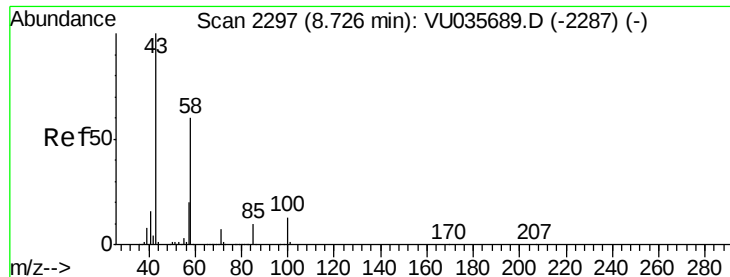
Tot Ion:	97	Resp:	255434
Ion	Ratio	Lower	Upper
97	100		
99	62.8	44.2	82.2
83	86.0	61.5	114.3
85	56.2	39.3	73.1



#46
 Tetrachloroethene
 Concen: 54.590 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Tgt Ion:	164	Resp:	215107
Ion	Ratio	Lower	Upper
164	100		
129	90.2	64.1	119.1
131	86.8	63.1	117.1
166	124.8	88.5	164.3

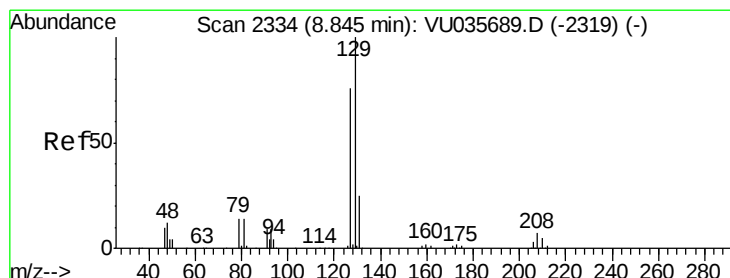
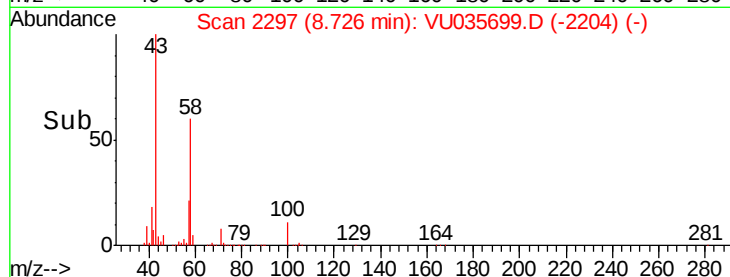
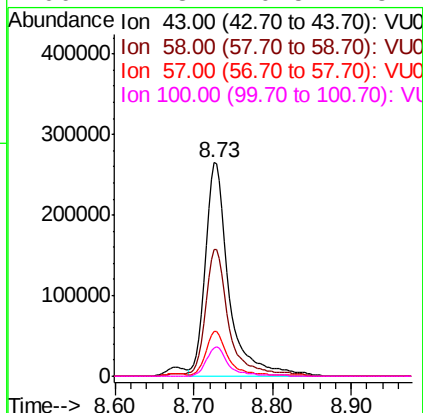
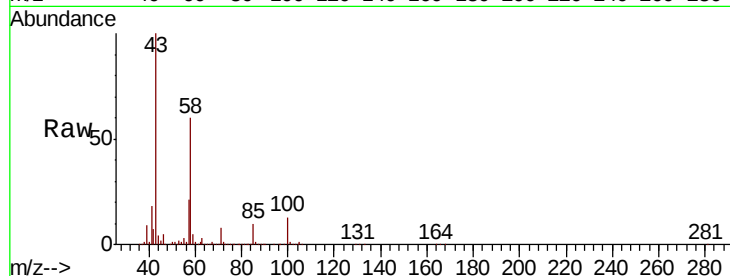




#48
2-Hexanone
Concen: 101.037 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

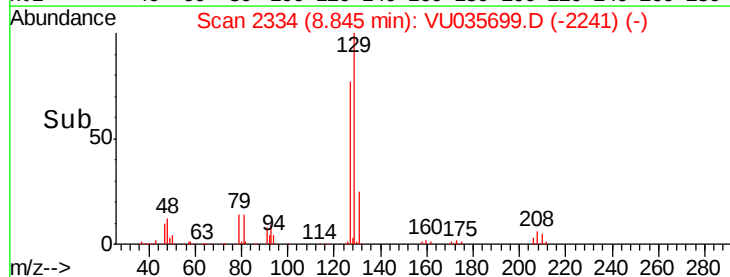
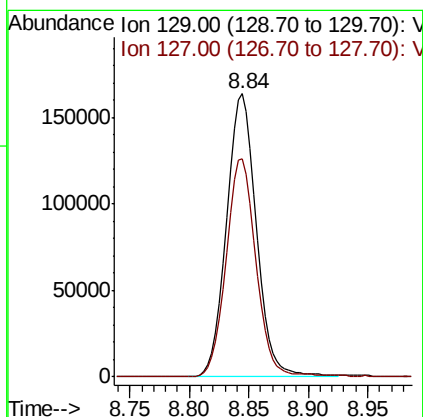
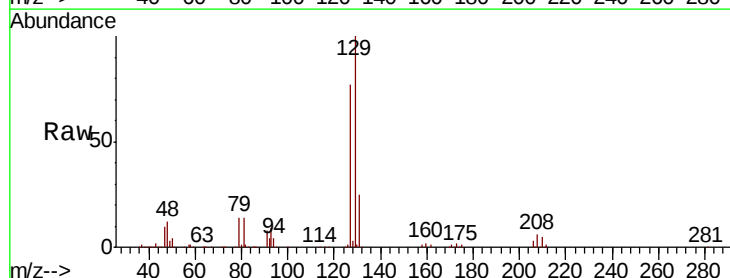
Instrument :
MSVOA_U
ClientSampleId :

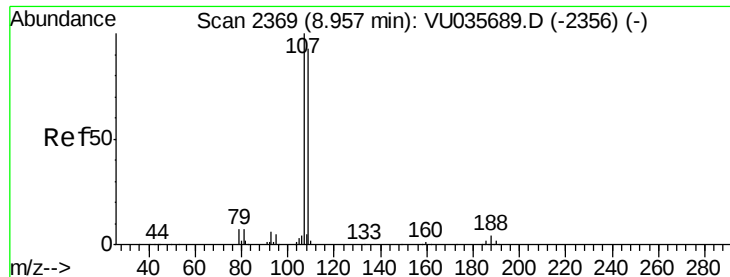
Tot Ion	Ratio	Lower	Upper
43	100		
58	59.5	50.4	75.6
57	18.4	17.4	26.0
100	12.8	10.5	15.7



#49
Dibromochloromethane
Concen: 53.172 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	54.9	101.9

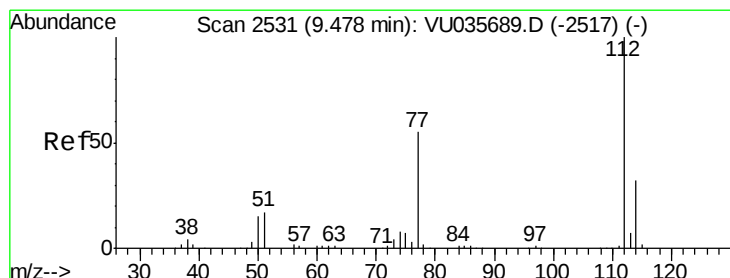
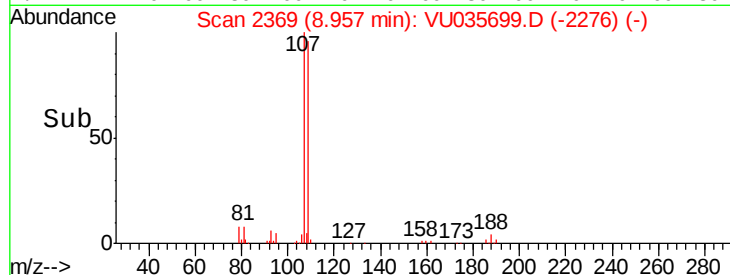
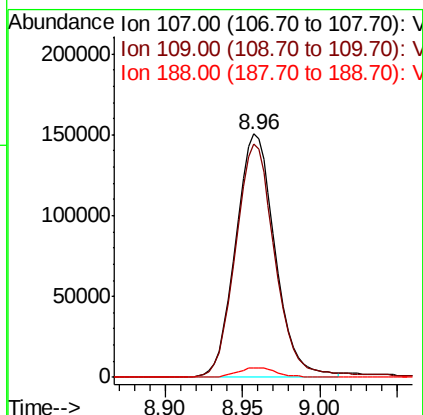
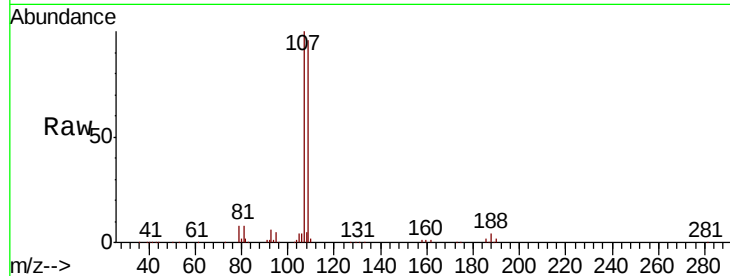




#50
1,2-Dibromoethane
Concen: 52.583 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

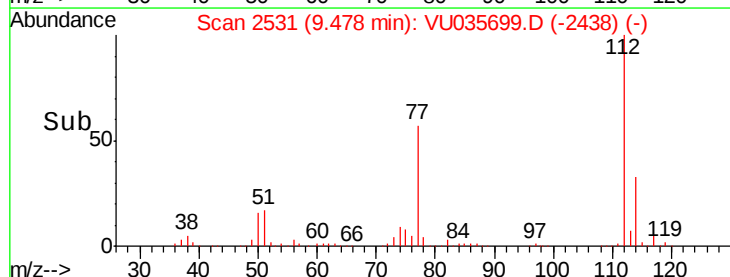
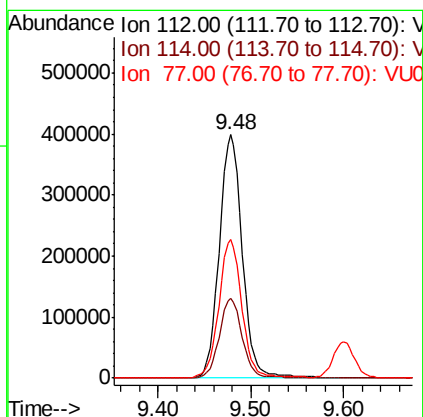
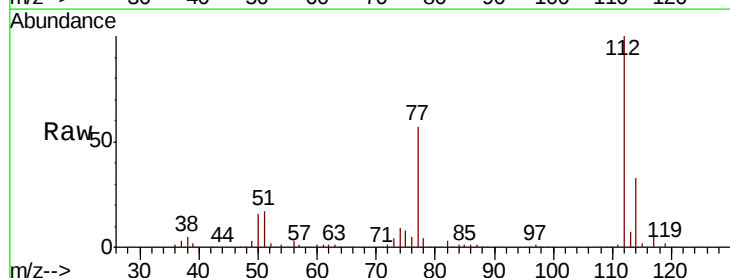
Instrument :
MSVOA_U
ClientSampleId :

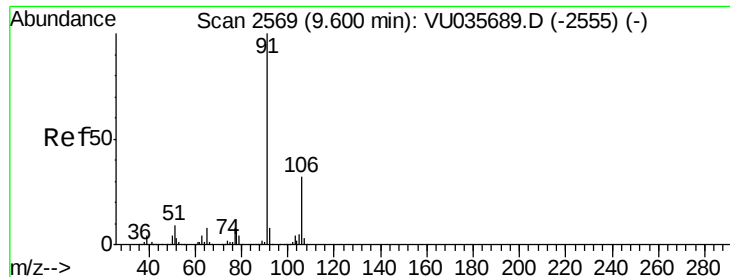
Tot Ion:107 Resp: 266931
Ion Ratio Lower Upper
107 100
109 96.0 66.8 124.2
188 4.1 3.2 4.8



#51
Chlorobenzene
Concen: 52.894 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Tgt Ion:112 Resp: 686021
Ion Ratio Lower Upper
112 100
114 32.8 22.7 42.3
77 57.1 45.9 68.9





#52

Ethylbenzene

Concen: 54.188 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

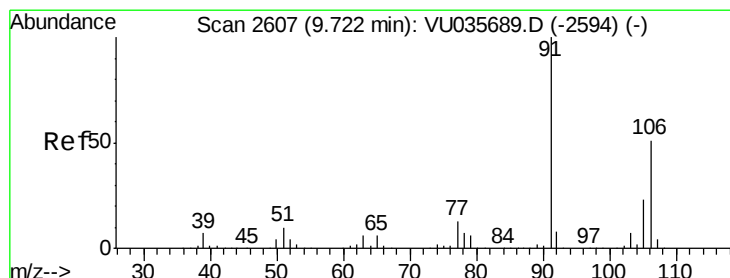
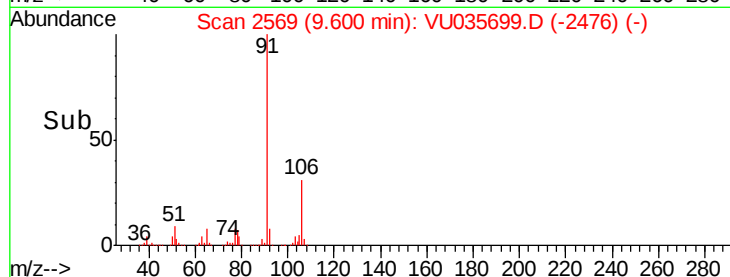
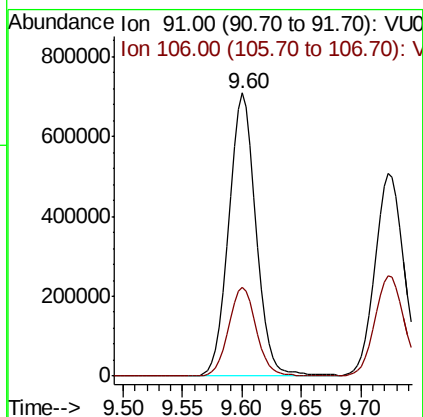
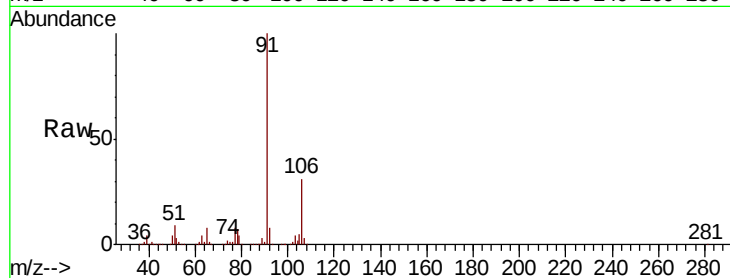
ClientSampleId :

Tot Ion: 91 Resp: 1125463

Ion Ratio Lower Upper

91 100

106 31.5 21.6 40.0



#53

m,p-Xylene

Concen: 56.112 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035699.D

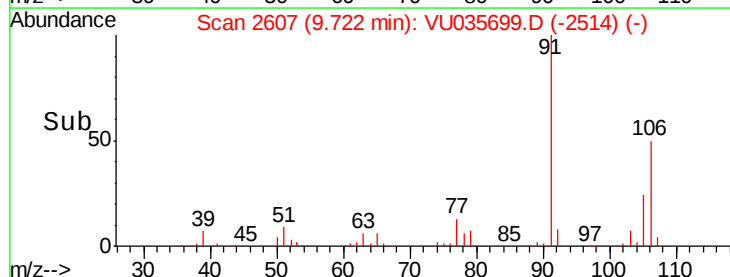
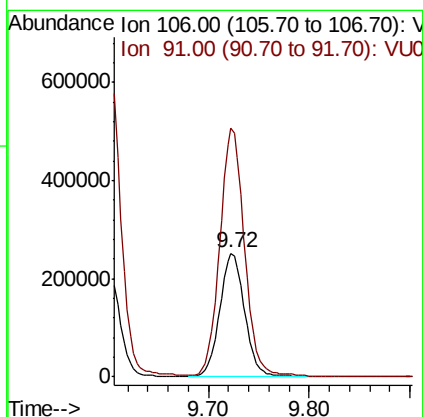
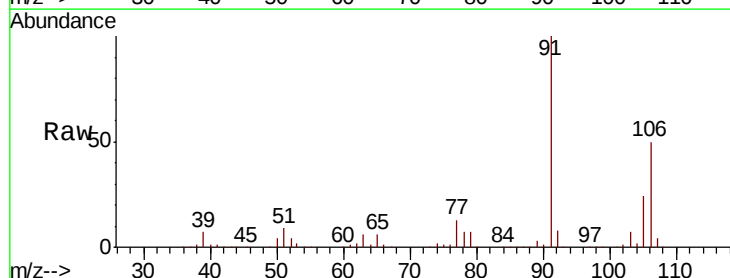
Acq: 12 Nov 2019 16:39

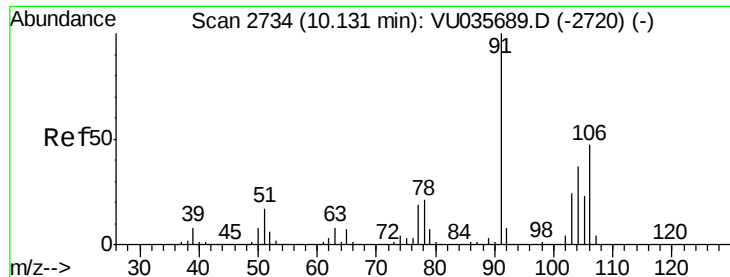
Tgt Ion: 106 Resp: 437309

Ion Ratio Lower Upper

106 100

91 201.5 142.7 264.9





#54

o-xylene

Concen: 56.459 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

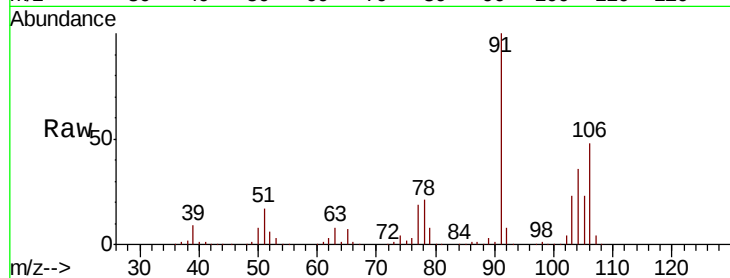
ClientSampled :

Tot Ion:106 Resp: 430067

Ion Ratio Lower Upper

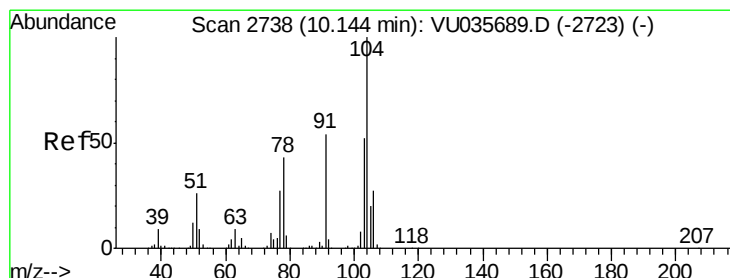
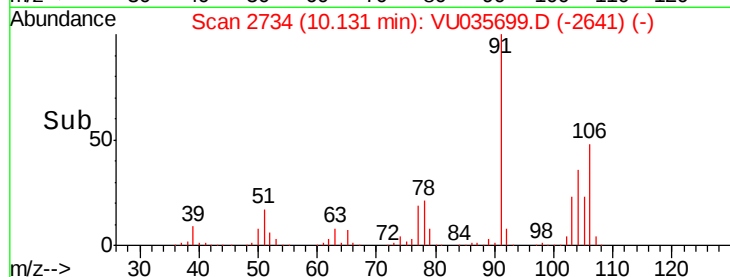
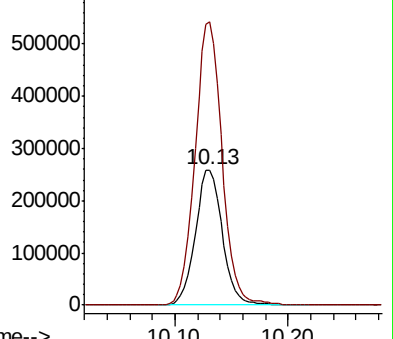
106 100

91 209.0 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 56.006 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. -0.00 min

Lab File: VU035699.D

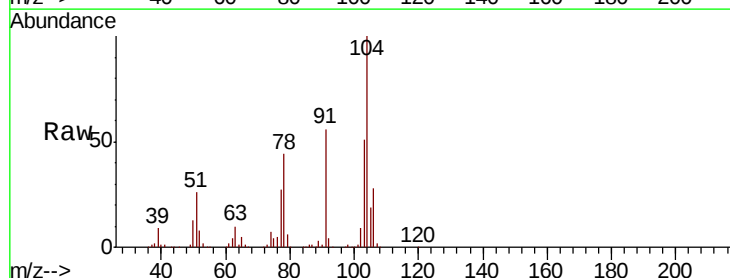
Acq: 12 Nov 2019 16:39

Tgt Ion:104 Resp: 708000

Ion Ratio Lower Upper

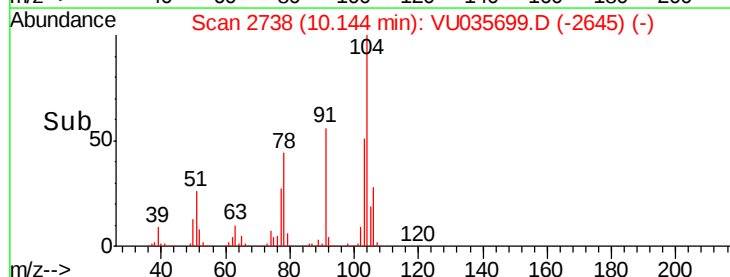
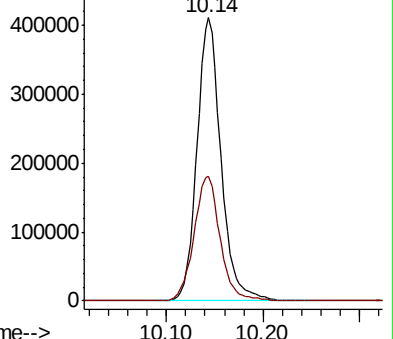
104 100

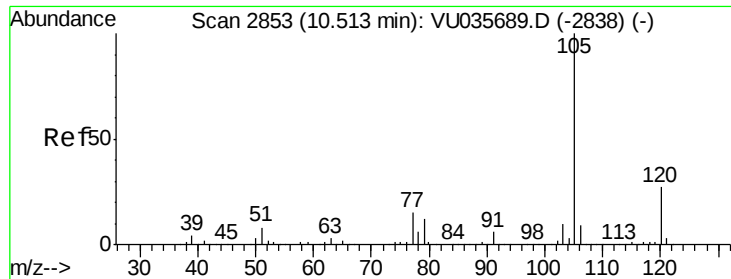
78 43.9 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 56.096 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

ClientSampleId :

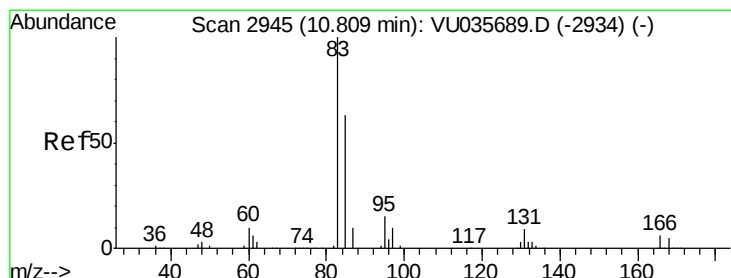
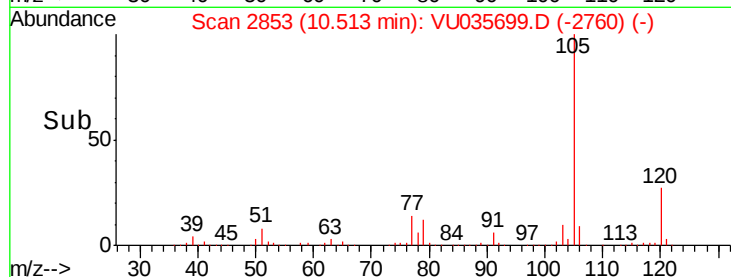
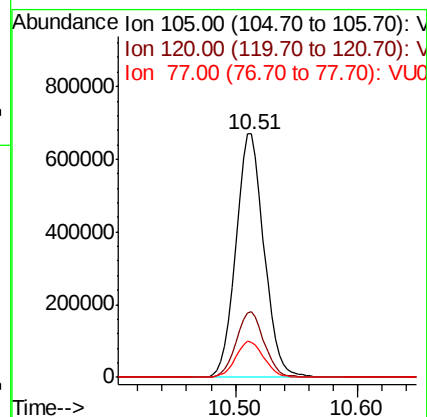
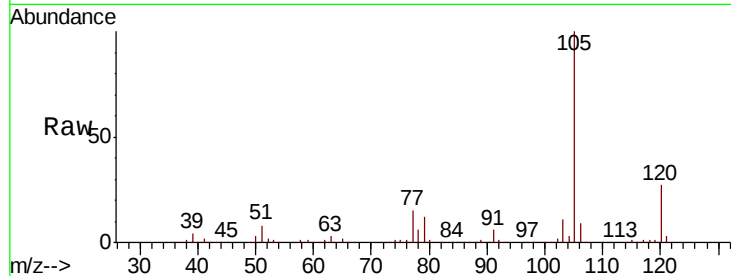
Tot Ion:105 Resp: 1073786

Ion Ratio Lower Upper

105 100

120 26.8 21.1 31.7

77 15.0 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 51.536 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

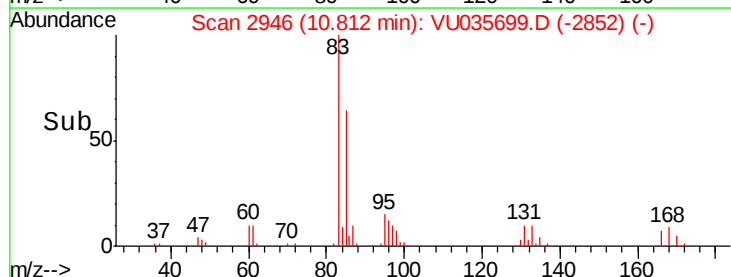
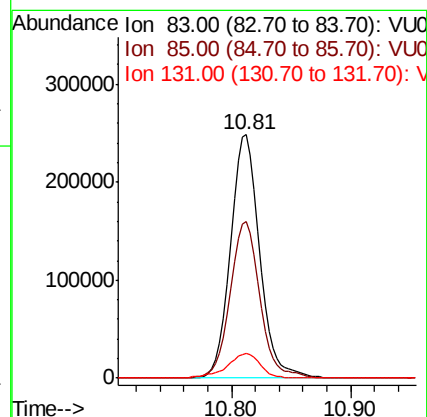
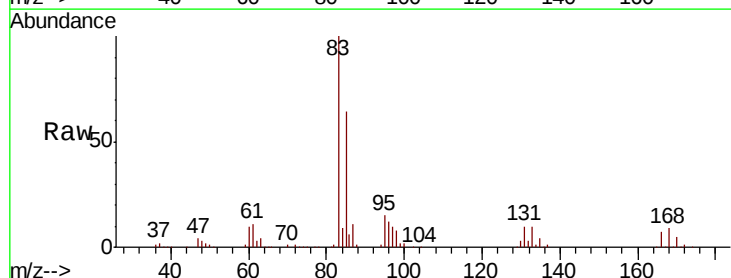
Tgt Ion: 83 Resp: 422361

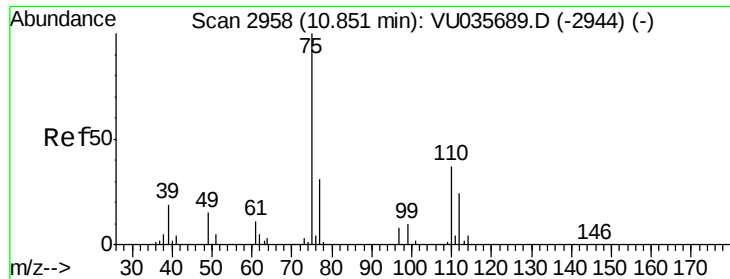
Ion Ratio Lower Upper

83 100

85 64.3 44.6 82.8

131 10.3 8.2 12.4





#59

1,2,3-Trichloropropane

Concen: 51.645 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

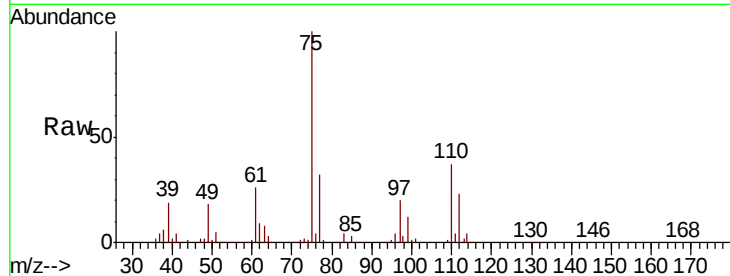
ClientSampled :

Tot Ion: 75 Resp: 334275

Ion Ratio Lower Upper

75 100

77 32.4 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU035689.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU035689.D (-2944) (-)

10.85

200000

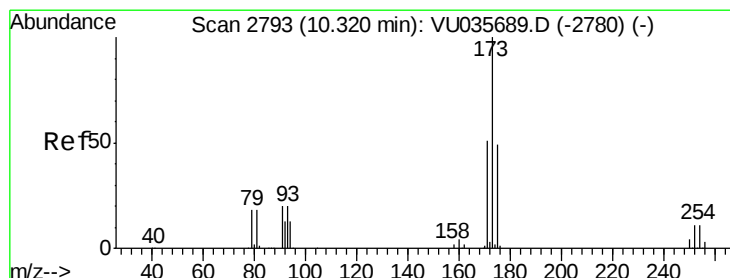
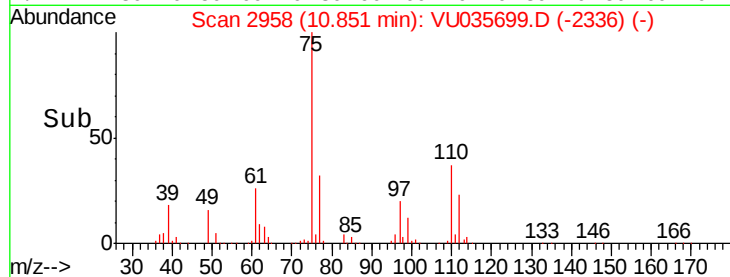
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 48.093 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

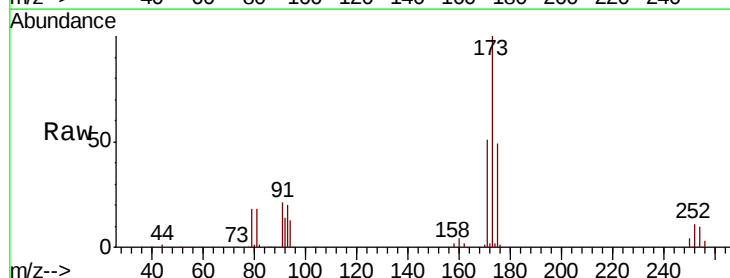
Tgt Ion: 173 Resp: 224798

Ion Ratio Lower Upper

173 100

175 48.9 39.4 59.0

254 10.6 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): VU035689.D (-2780) (-)

Ion 175.00 (174.70 to 175.70): VU035689.D (-2780) (-)

Ion 254.00 (253.70 to 254.70): VU035689.D (-2780) (-)

10.32

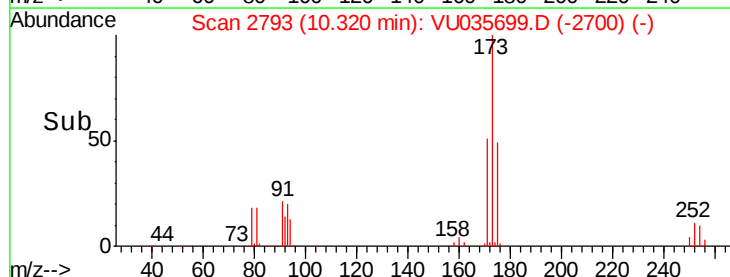
150000

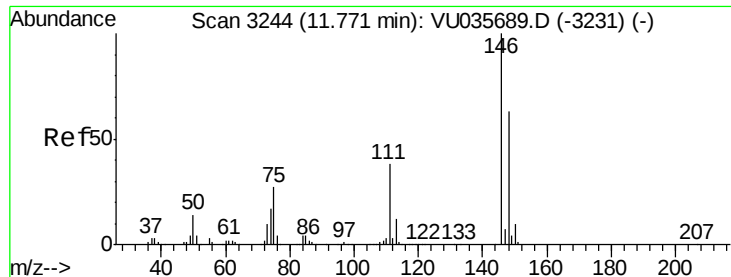
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.534 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

Instrument :

MSVOA_U

ClientSampleId :

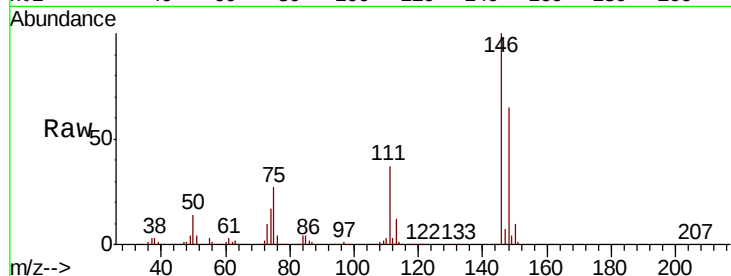
Tot Ion:146 Resp: 478779

Ion Ratio Lower Upper

146 100

111 37.5 27.8 51.6

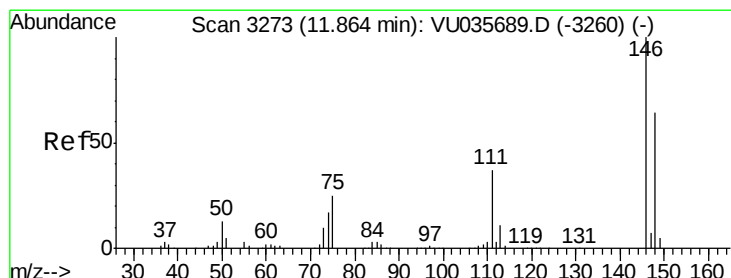
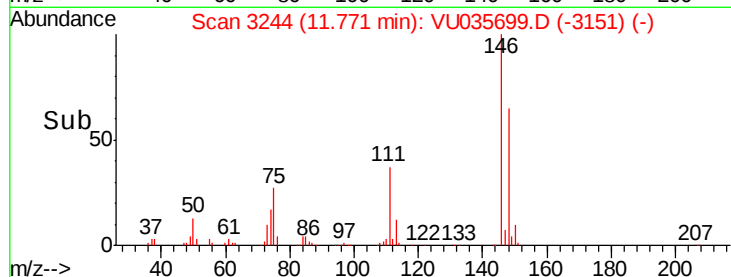
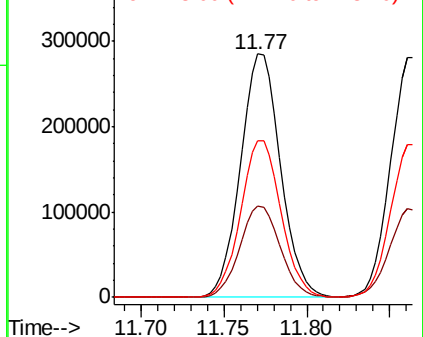
148 64.5 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.225 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU035699.D

Acq: 12 Nov 2019 16:39

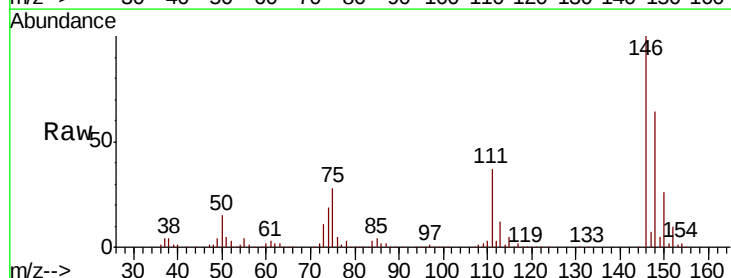
Tgt Ion:146 Resp: 473523

Ion Ratio Lower Upper

146 100

111 37.0 26.5 49.1

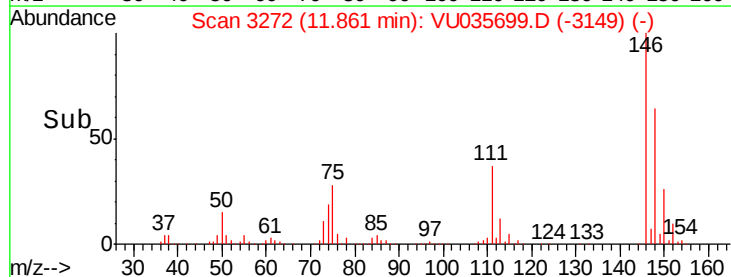
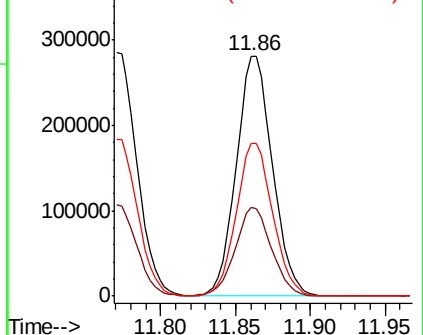
148 63.8 44.4 82.5

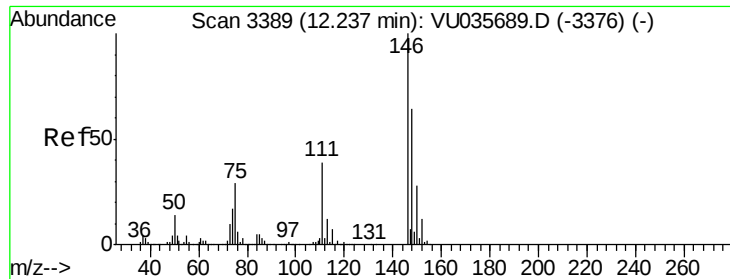


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

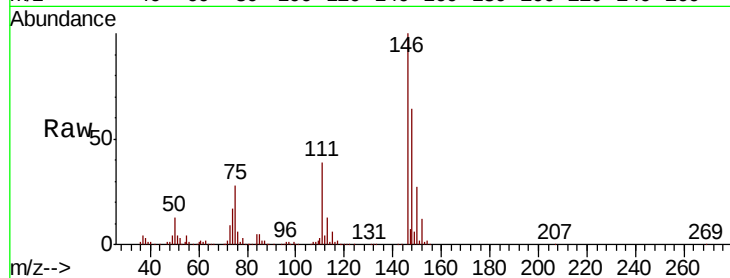




#65
 1,2-Dichlorobenzene
 Concen: 48.658 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	32.4	48.6
148	64.0	51.8	77.6

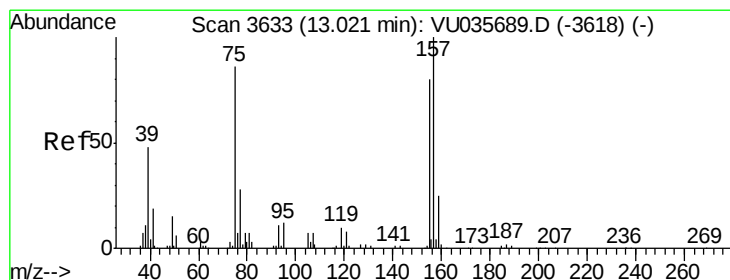
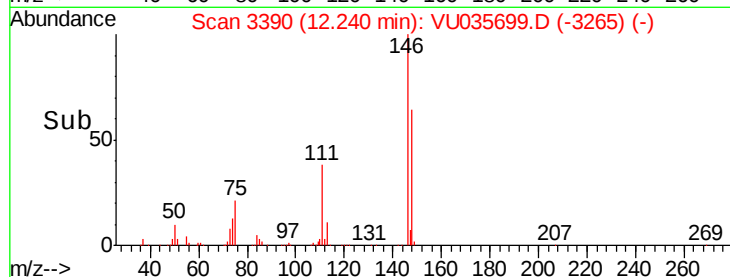
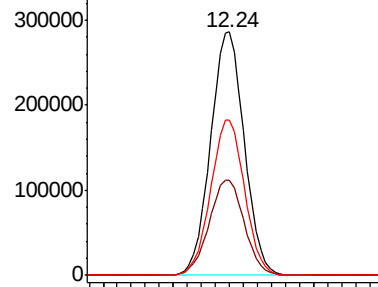


Abundance

Ion 146.00 (145.70 to 146.70): V

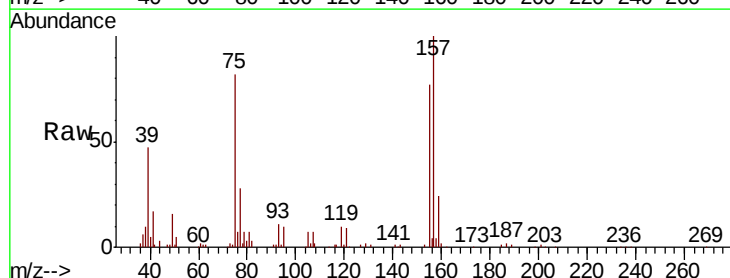
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.252 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.6	72.2	108.4
157	121.5	92.1	138.1

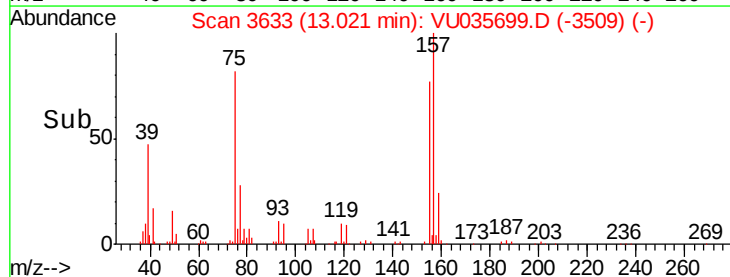
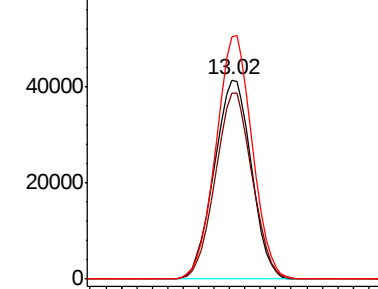


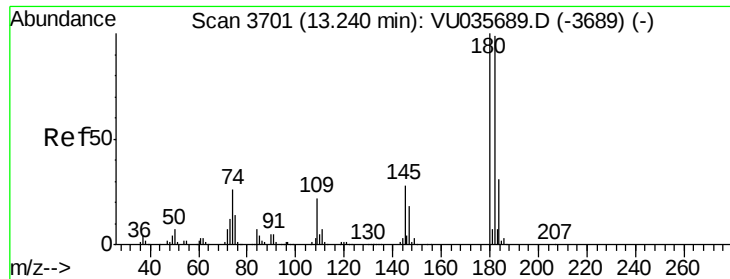
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

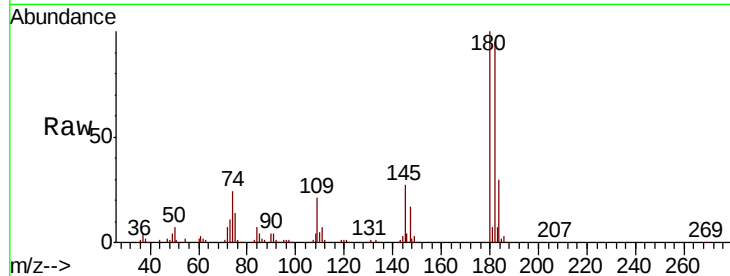




#67
 1,3,5-Trichlorobenzene
 Concen: 46.311 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	180	Resp	258603
Ion Ratio	Lower	Upper	
180	100		
182	96.4	77.0	115.4
184	30.4	24.6	36.8
145	26.7	21.7	32.5



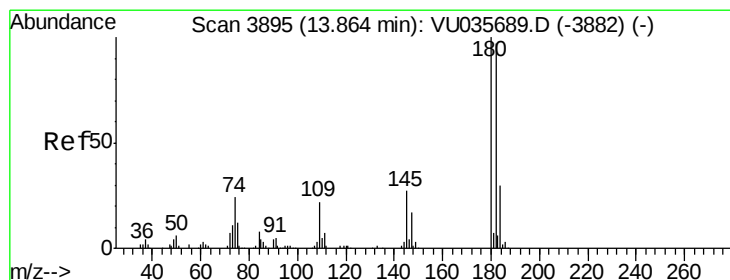
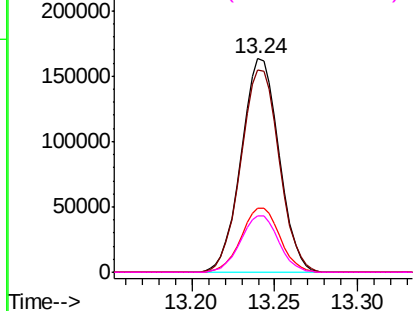
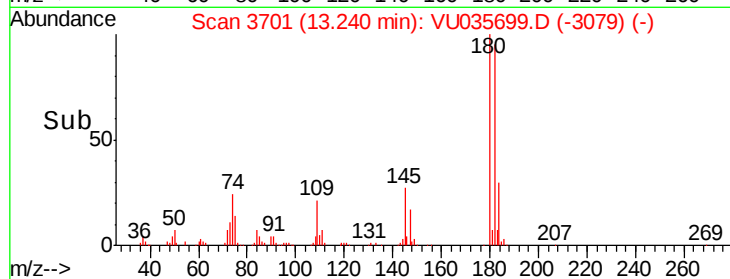
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

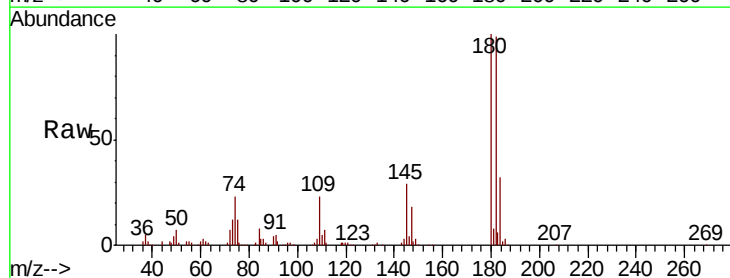
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 36.688 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035699.D
 Acq: 12 Nov 2019 16:39

Tgt Ion	180	Resp	137235
Ion Ratio	Lower	Upper	
180	100		
182	97.0	76.6	115.0
145	28.2	21.9	32.9

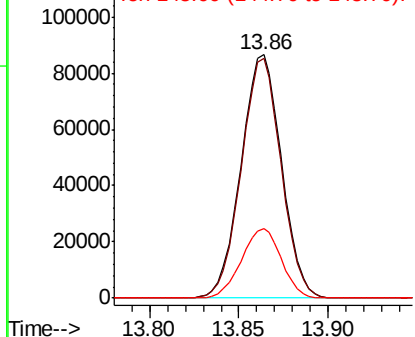
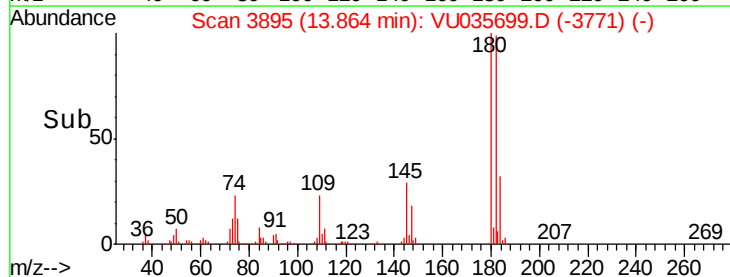


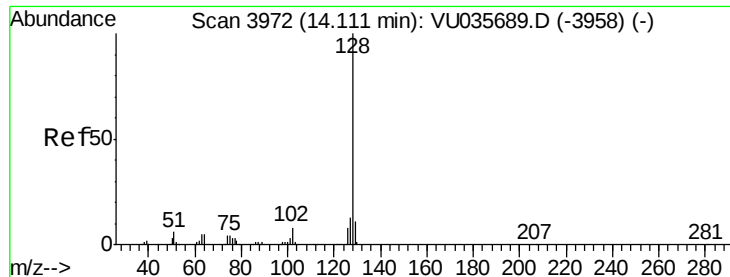
Abundance

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

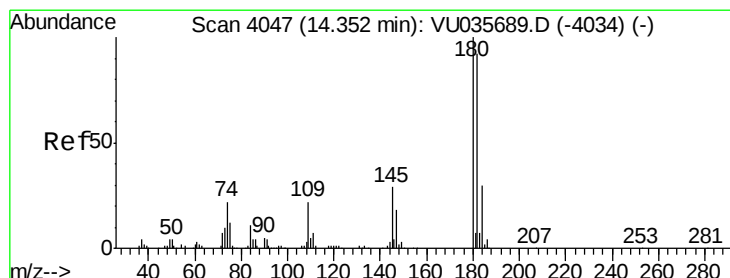
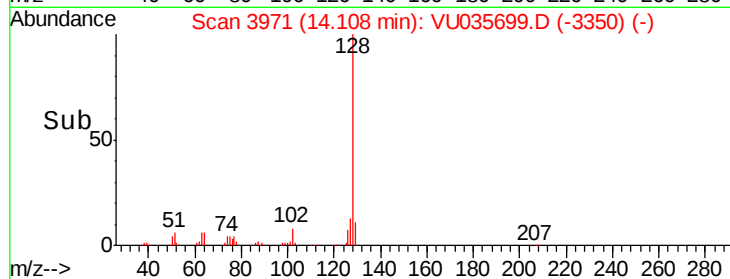
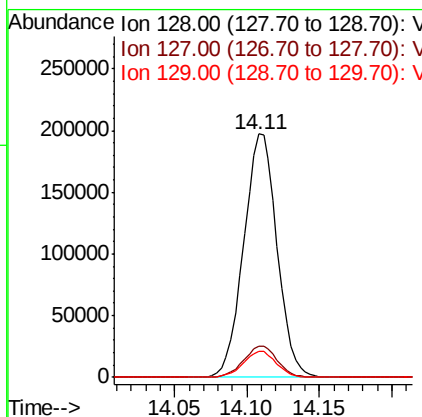
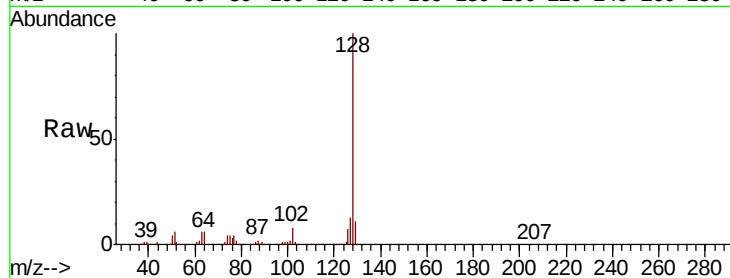




#69
Naphthalene
Concen: 32.886 ug/L
RT: 14.11 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:128 Resp: 315527
Ion Ratio Lower Upper
128 100
127 13.1 10.7 16.1
129 10.7 8.5 12.7



#70
1,2,3-Trichlorobenzene
Concen: 36.812 ug/L
RT: 14.35 min Scan# 4047
Delta R.T. -0.00 min
Lab File: VU035699.D
Acq: 12 Nov 2019 16:39

Tgt Ion:180 Resp: 148365
Ion Ratio Lower Upper
180 100
182 95.9 77.6 116.4
145 29.2 23.4 35.0

