

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021120\
 Data File : VU036722.D
 Acq On : 11 Feb 2020 14:01
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 12 02:35:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 12 02:32:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	253861	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	241025	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	109797	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	59696	35.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.52%
7) Chloroethane-d5	1.93	69	61664	39.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.56%
11) 1,1-Dichloroethene-d2	2.59	63	133818	41.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.74%
21) 2-Butanone-d5	4.67	46	132815	91.95	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.95%
24) Chloroform-d	5.11	84	141056	46.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.08%
26) 1,2-Dichloroethane-d4	5.74	65	94088	44.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.78%
32) Benzene-d6	5.77	84	276913	43.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.40%
36) 1,2-Dichloropropane-d6	6.73	67	95414	45.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.72%
41) Toluene-d8	7.93	98	249884	43.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.12%
43) trans-1,3-Dichloropropene-	8.21	79	44431	44.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.22%
47) 2-Hexanone-d5	8.66	63	110885	92.36	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.36%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	150866	48.67	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.34%
66) 1,2-Dichlorobenzene-d4	12.21	152	91867	46.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	89827	51.214	ug/L 100
3) Chloromethane	1.54	50	103951	50.014	ug/L 99
5) Vinyl chloride	1.62	62	116904	52.237	ug/L 99
6) Bromomethane	1.87	94	69974	49.866	ug/L 95
8) Chloroethane	1.95	64	73998	52.098	ug/L 100
9) Trichlorofluoromethane	2.16	101	138898	52.230	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	84613	53.120	ug/L 99
12) 1,1-Dichloroethene	2.61	96	82397	53.135	ug/L 89
13) Acetone	2.66	43	142092	92.605	ug/L 99
14) Carbon disulfide	2.82	76	238824	51.536	ug/L 100
15) Methyl Acetate	2.98	43	109835	49.514	ug/L 97
16) Methylene chloride	3.08	84	100644	52.583	ug/L 99
17) trans-1,2-Dichloroethene	3.39	96	87176	52.835	ug/L 98
18) Methyl tert-butyl Ether	3.41	73	296357	51.752	ug/L 99
19) 1,1-Dichloroethane	3.92	63	173909	52.899	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	101069	53.760	ug/L 98
22) 2-Butanone	4.75	43	172090	94.498	ug/L 98

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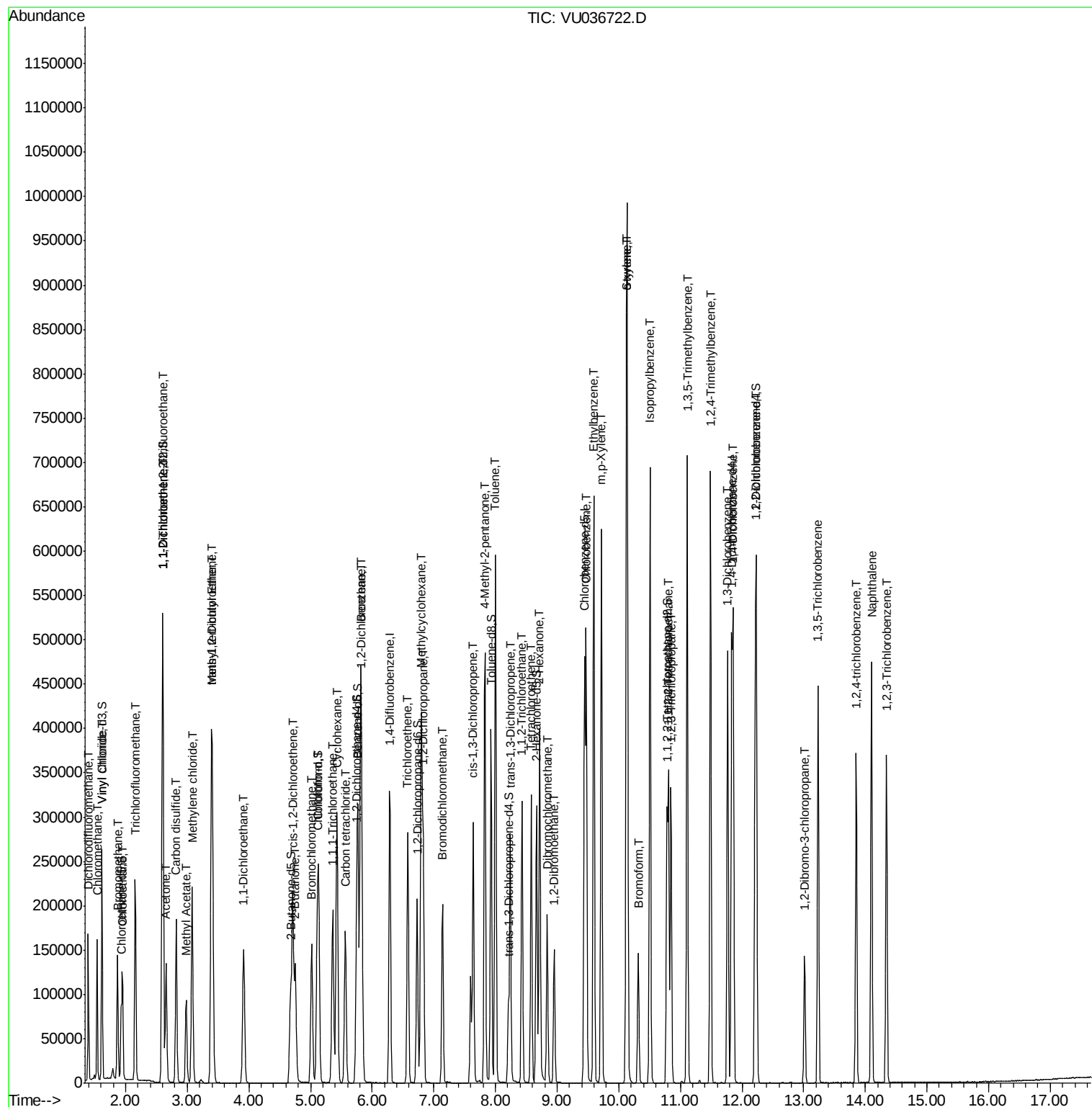
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	45472	51.616	ug/L	96
25) Chloroform	5.13	83	171132	53.524	ug/L	99
27) 1,2-Dichloroethane	5.84	62	140279	52.172	ug/L	99
29) Cyclohexane	5.43	56	155626	50.266	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	134422	52.502	ug/L	99
31) Carbon tetrachloride	5.57	117	108421	52.299	ug/L	100
33) Benzene	5.82	78	385970	52.944	ug/L	100
34) Trichloroethene	6.58	95	95434	52.938	ug/L	98
35) Methylcyclohexane	6.80	83	165579	52.154	ug/L	100
37) 1,2-Dichloropropane	6.83	63	105381	53.607	ug/L	100
38) Bromodichloromethane	7.14	83	125755	52.642	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	162732	51.810	ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	307795	99.100	ug/L	99
42) Toluene	8.00	91	417696	53.024	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	142443	51.912	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	94096	52.469	ug/L	98
46) Tetrachloroethene	8.58	164	65754	51.977	ug/L	99
48) 2-Hexanone	8.72	43	241414	95.283	ug/L	99
49) Dibromochloromethane	8.84	129	92120	52.518	ug/L	98
50) 1,2-Dibromoethane	8.95	107	98776	52.429	ug/L	97
51) Chlorobenzene	9.47	112	250038	52.713	ug/L	99
52) Ethylbenzene	9.60	91	456779	52.771	ug/L	99
53) m,p-Xylene	9.72	106	170134	53.282	ug/L	100
54) o-xylene	10.12	106	168045	53.125	ug/L	97
55) Styrene	10.14	104	283042	53.690	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.81	83	168024	51.995	ug/L	100
59) Bromoform	10.32	173	63099	52.017	ug/L	99
60) 1,2,3-Trichloropropane	10.85	75	133855	51.827	ug/L	100
61) Isopropylbenzene	10.51	105	435645	53.285	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	376033	53.646	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	370670	52.958	ug/L	100
64) 1,3-Dichlorobenzene	11.77	146	183242	53.296	ug/L	100
65) 1,4-Dichlorobenzene	11.86	146	180585	52.170	ug/L	99
67) 1,2-Dichlorobenzene	12.23	146	183650	52.756	ug/L	99
68) 1,2-Dibromo-3-chloropropan	13.01	75	35507	48.107	ug/L	98
69) 1,3,5-Trichlorobenzene	13.23	180	125116	52.478	ug/L	99
70) 1,2,4-trichlorobenzene	13.85	180	103032	51.825	ug/L	100
71) Naphthalene	14.10	128	355335	50.705	ug/L	100
72) 1,2,3-Trichlorobenzene	14.34	180	100132	50.555	ug/L	99

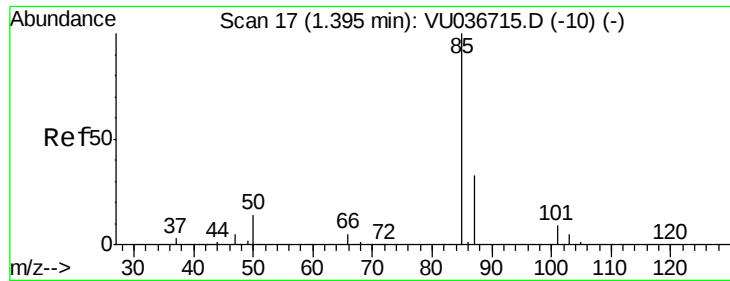
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 51.214 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

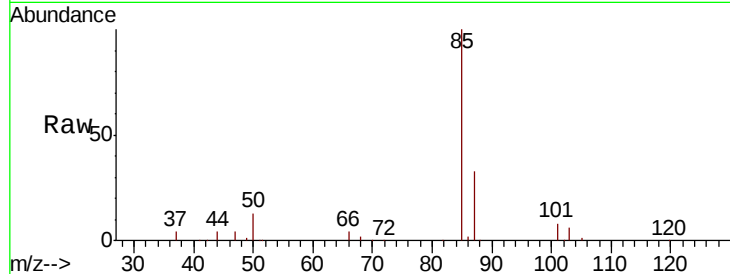
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 89827

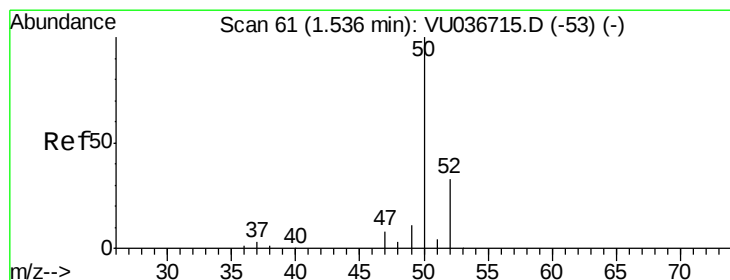
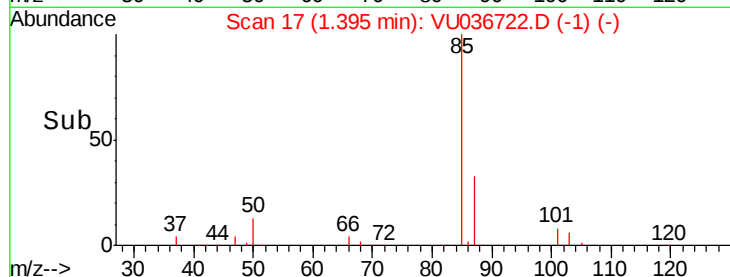
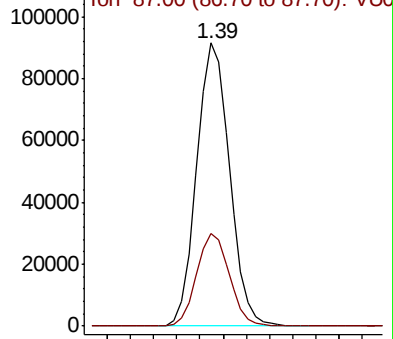
Ion Ratio Lower Upper

85 100

87 32.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036722.D (-1) (-)



#3

Chloromethane

Concen: 50.014 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036722.D

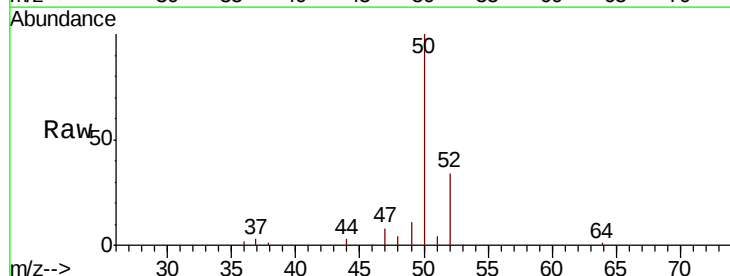
Acq: 11 Feb 2020 14:01

Tgt Ion: 50 Resp: 103951

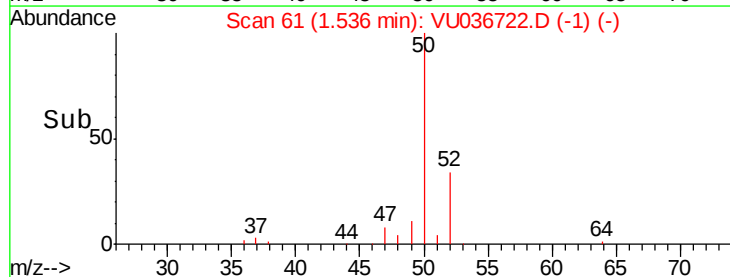
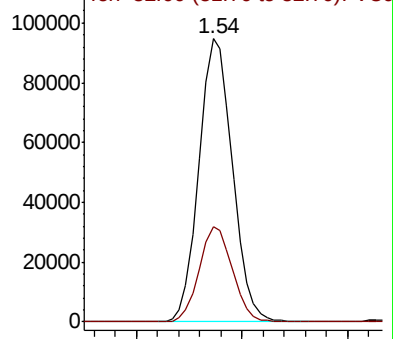
Ion Ratio Lower Upper

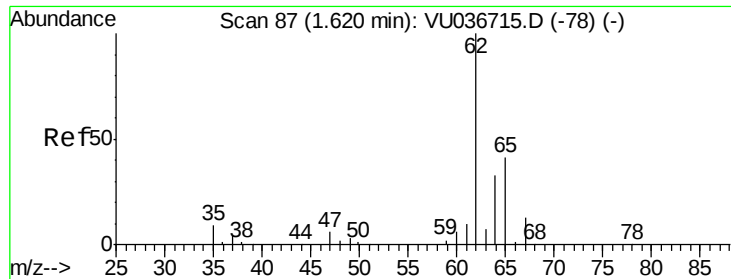
50 100

52 33.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036722.D (-1) (-)





#5

Vinyl chloride

Concen: 52.237 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

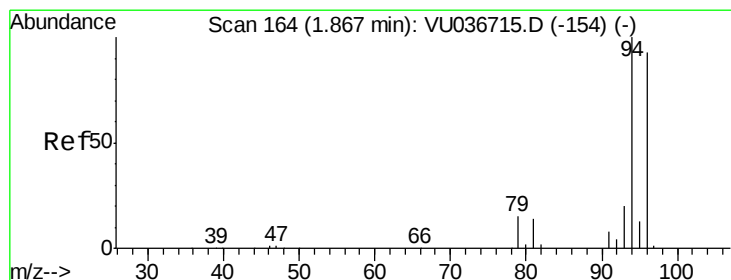
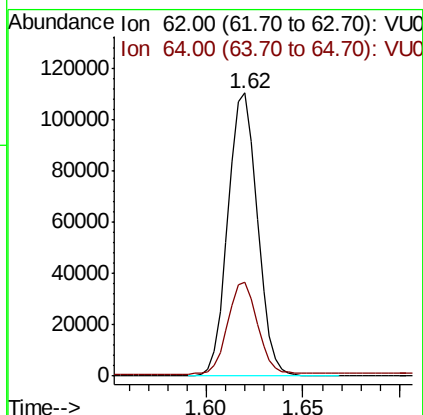
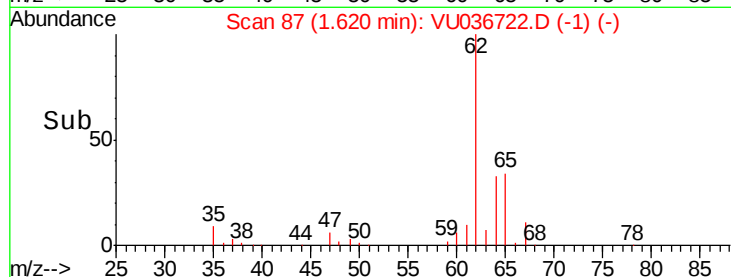
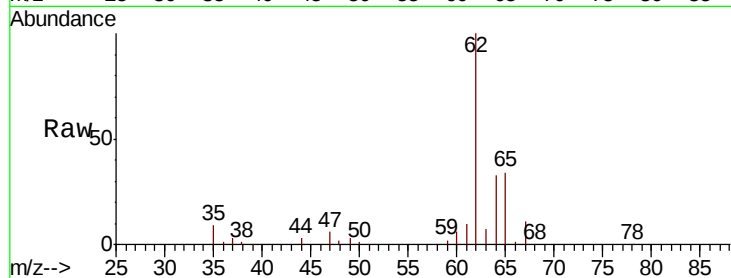
ClientSampleId :

Tot Ion: 62 Resp: 116904

Ion Ratio Lower Upper

62 100

64 33.1 23.4 43.6



#6

Bromomethane

Concen: 49.866 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU036722.D

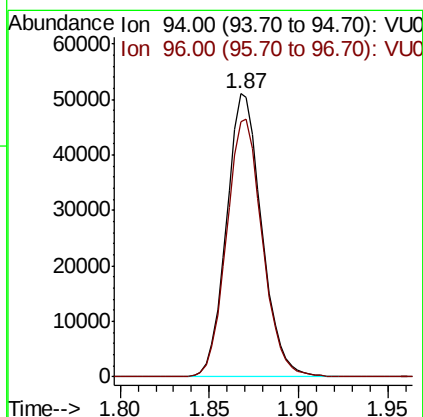
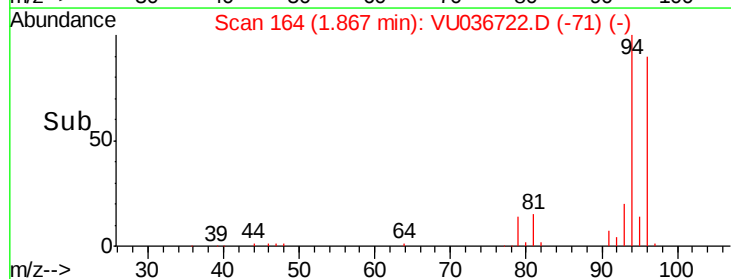
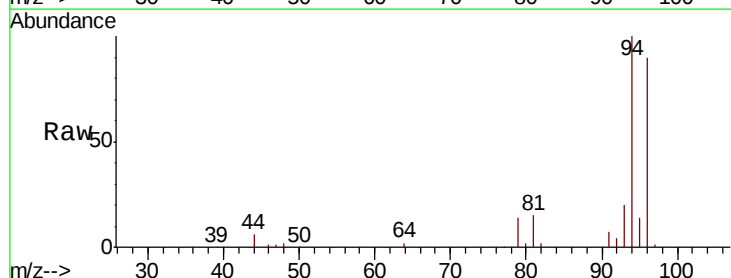
Acq: 11 Feb 2020 14:01

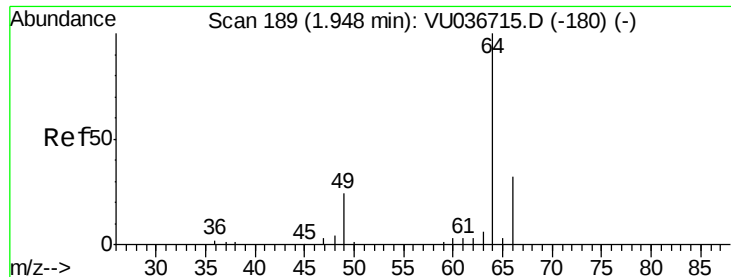
Tgt Ion: 94 Resp: 69974

Ion Ratio Lower Upper

94 100

96 90.3 66.3 123.1

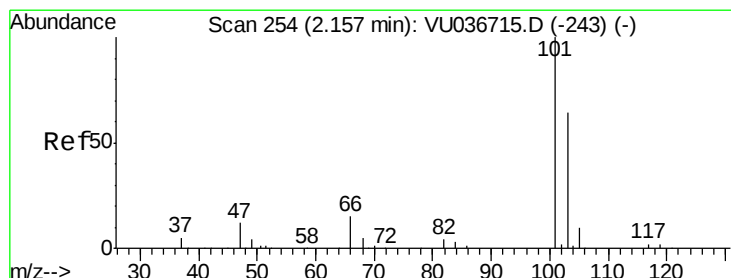
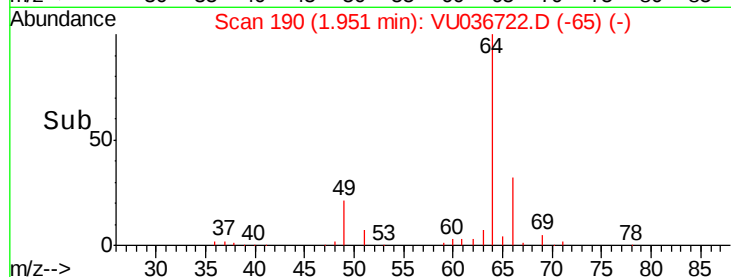
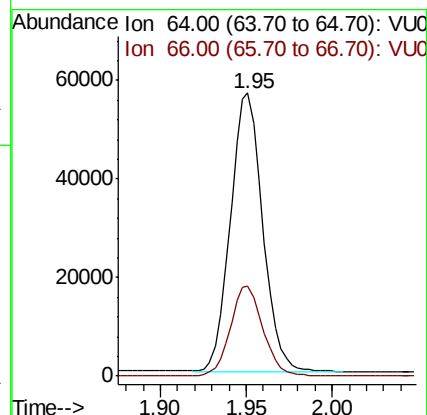
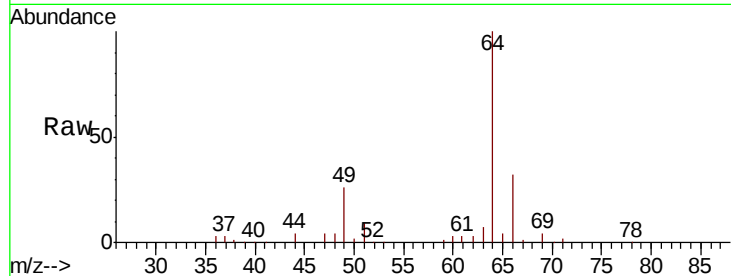




#8
Chloroethane
Concen: 52.098 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

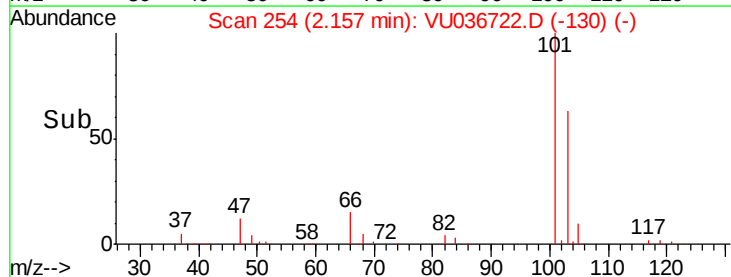
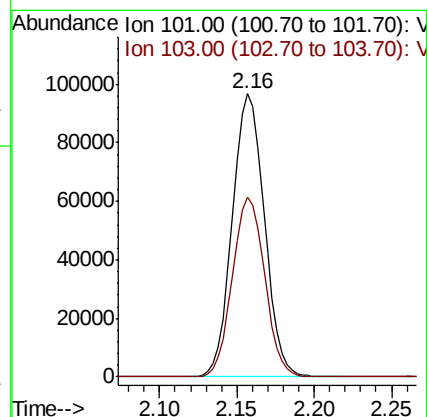
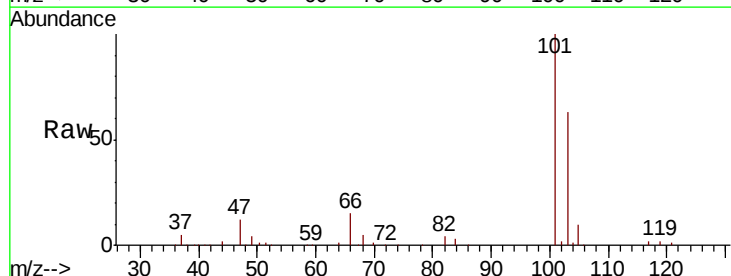
Instrument :
MSVOA_U
ClientSampleId :

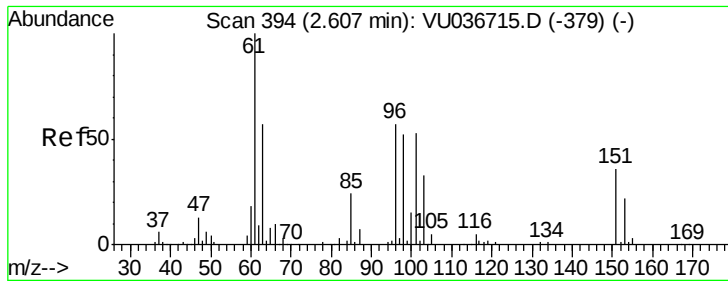
Tot Ion: 64 Resp: 73998
Ion Ratio Lower Upper
64 100
66 31.7 22.1 41.1



#9
Trichlorofluoromethane
Concen: 52.230 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Tgt Ion:101 Resp: 138898
Ion Ratio Lower Upper
101 100
103 63.9 51.6 77.4





#10

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

Concen: 53.120 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampled :

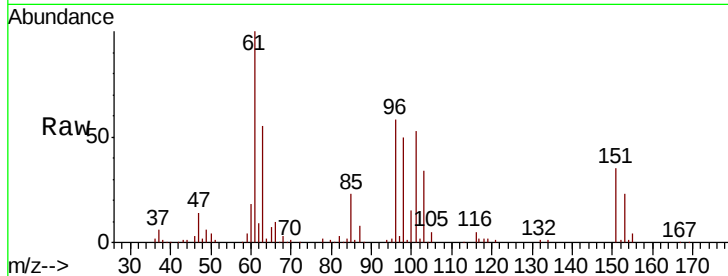
Tot Ion:101 Resp: 84613

Ion Ratio Lower Upper

101 100

85 45.9 36.5 54.7

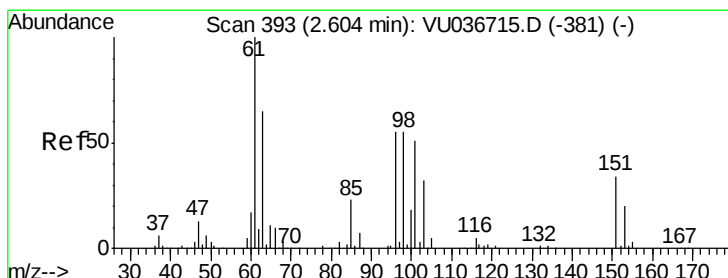
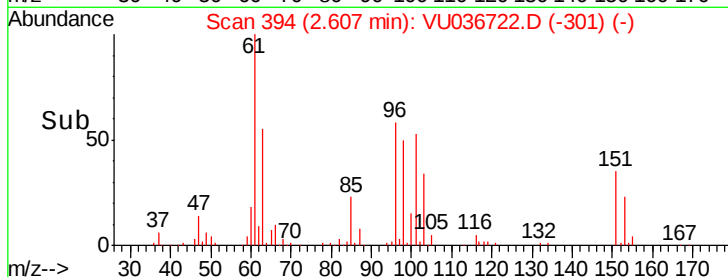
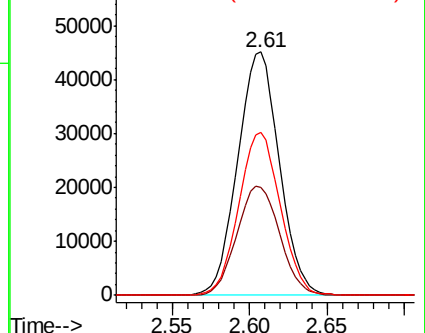
151 66.7 52.6 78.8



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: 53.135 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

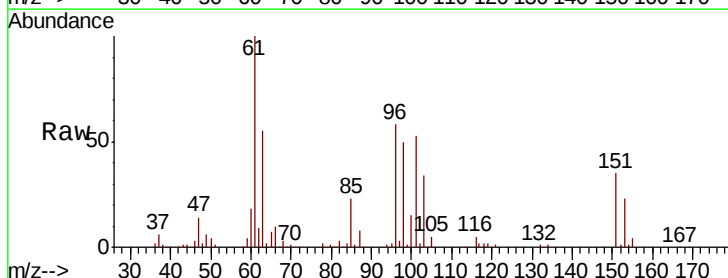
Tgt Ion: 96 Resp: 82397

Ion Ratio Lower Upper

96 100

61 172.8 124.4 231.0

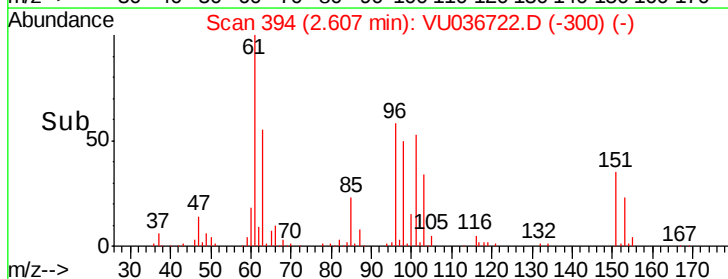
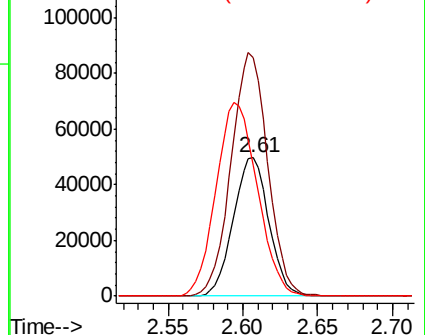
63 95.0 83.4 155.0

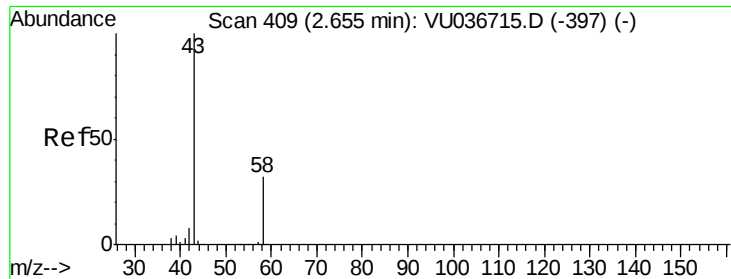


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.605 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

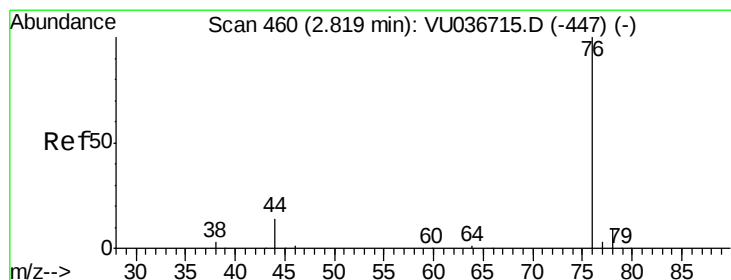
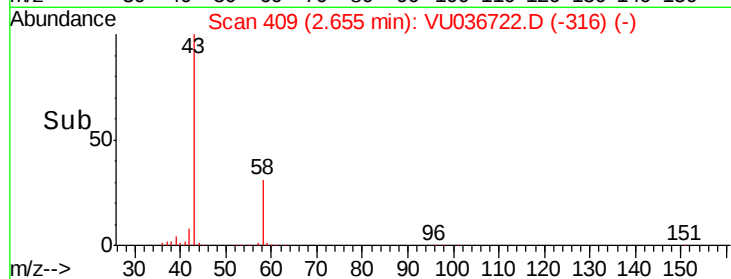
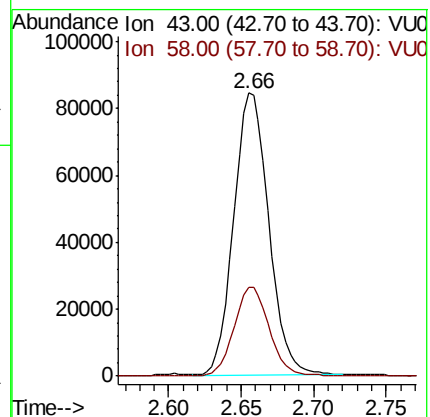
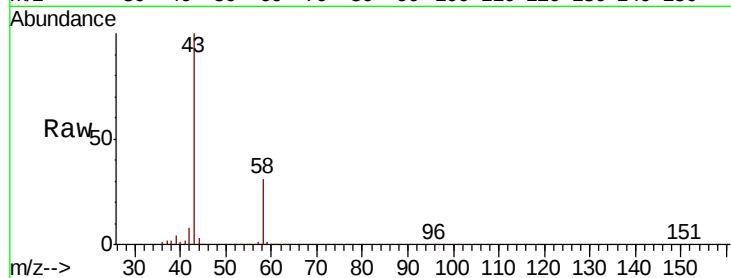
ClientSampleId :

Tot Ion: 43 Resp: 142092

Ion Ratio Lower Upper

43 100

58 31.2 0.0 64.0



#14

Carbon disulfide

Concen: 51.536 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036722.D

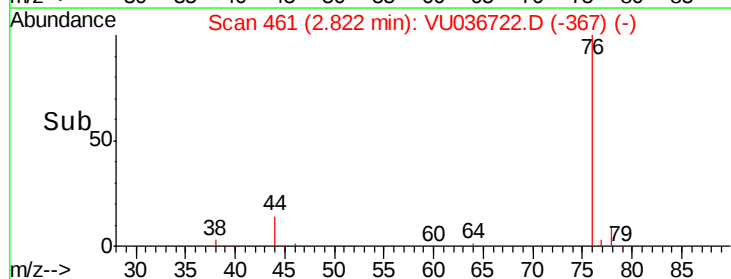
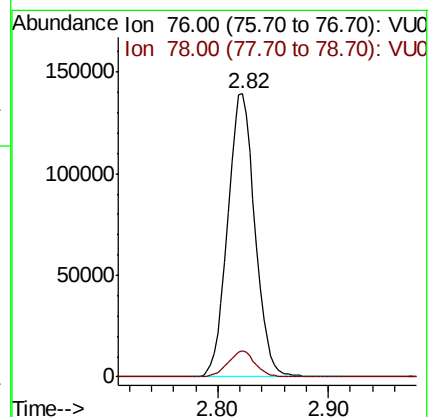
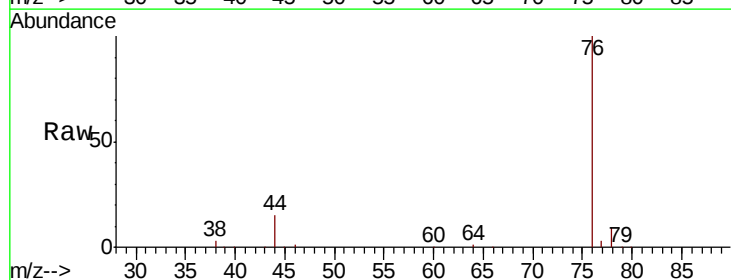
Acq: 11 Feb 2020 14:01

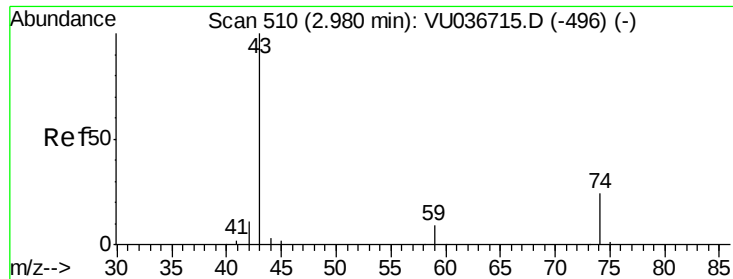
Tgt Ion: 76 Resp: 238824

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

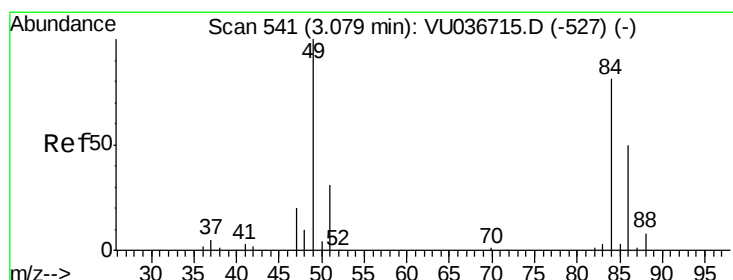
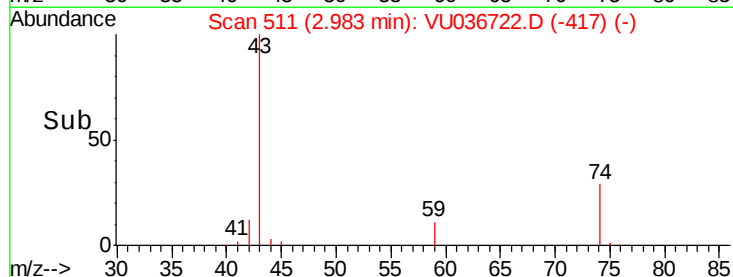
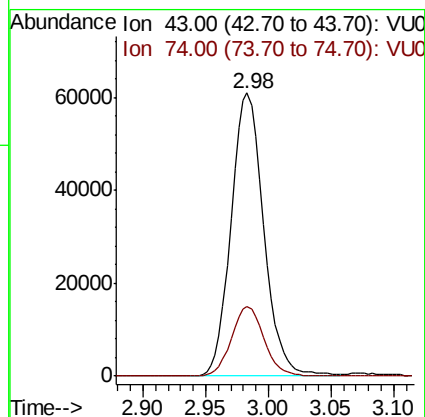
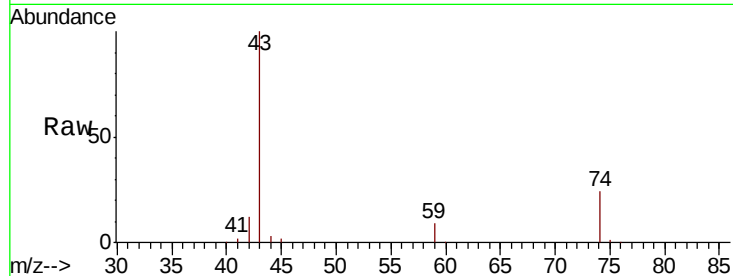




#15
Methyl Acetate
Concen: 49.514 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

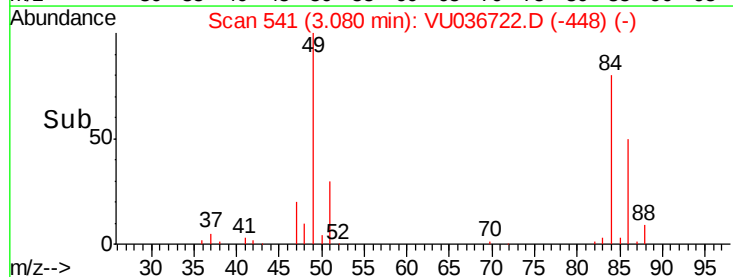
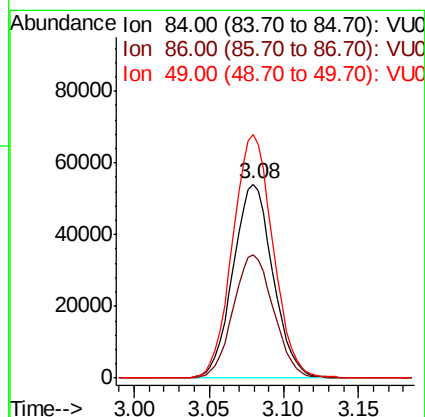
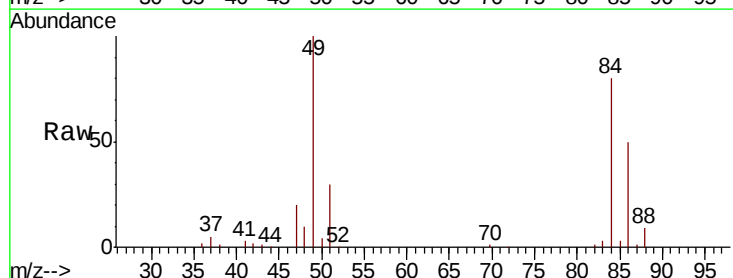
Instrument :
MSVOA_U
ClientSampleId :

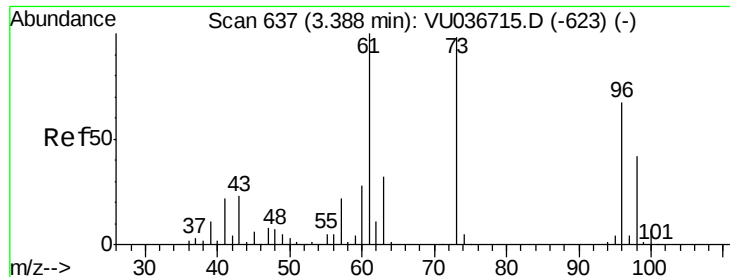
Tot Ion: 43 Resp: 109835
Ion Ratio Lower Upper
43 100
74 24.7 18.7 28.1



#16
Methylene chloride
Concen: 52.583 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Tgt Ion: 84 Resp: 100644
Ion Ratio Lower Upper
84 100
86 63.2 44.4 82.5
49 125.4 89.2 165.8

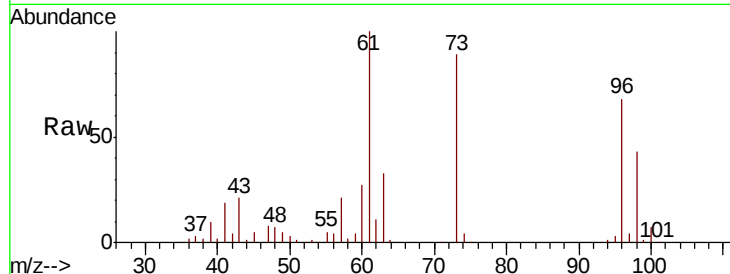




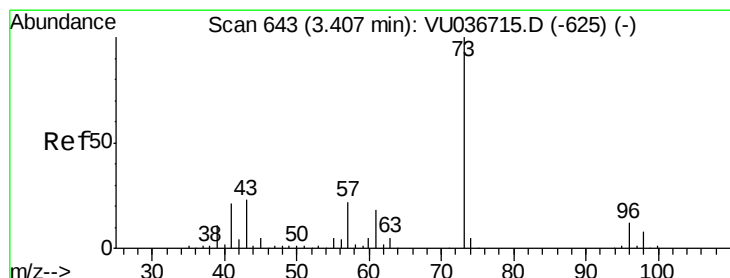
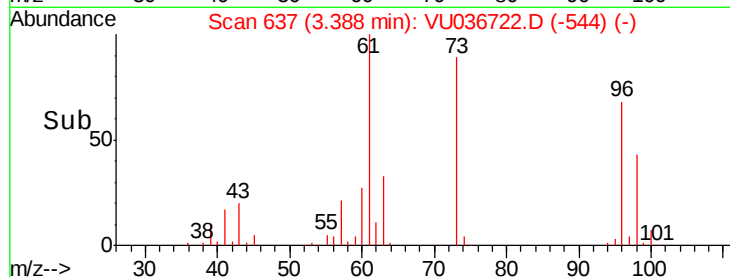
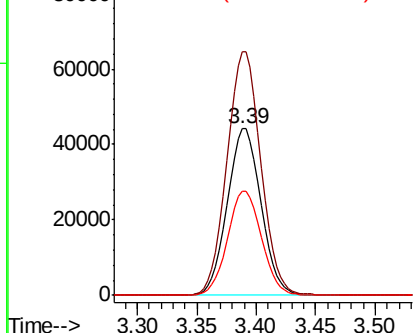
#17
trans-1,2-Dichloroethene
Concen: 52.835 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 87176
Ion Ratio Lower Upper
96 100
61 146.1 103.4 192.0
98 62.7 45.4 84.2

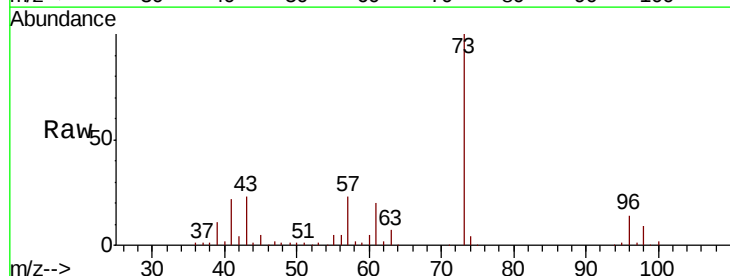


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

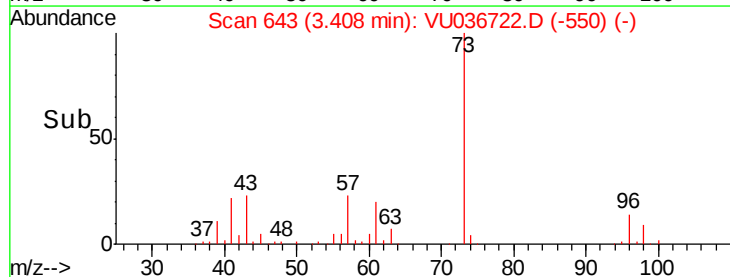
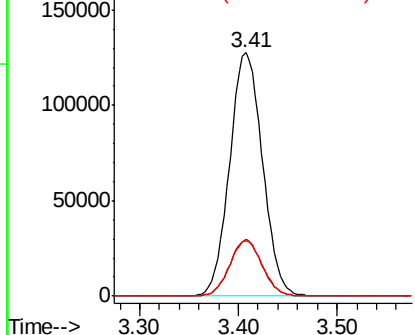


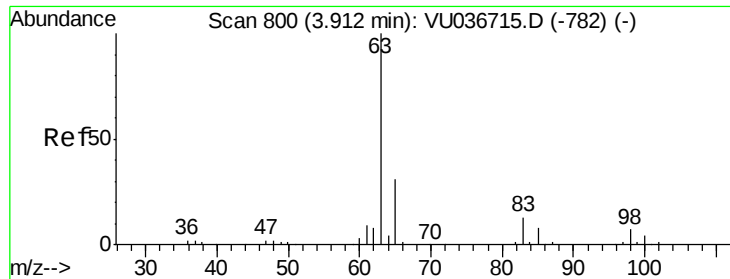
#18
Methyl tert-butyl Ether
Concen: 51.752 ug/L
RT: 3.41 min Scan# 643
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Tgt Ion: 73 Resp: 296357
Ion Ratio Lower Upper
73 100
43 22.9 18.6 28.0
57 22.6 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 52.899 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampled :

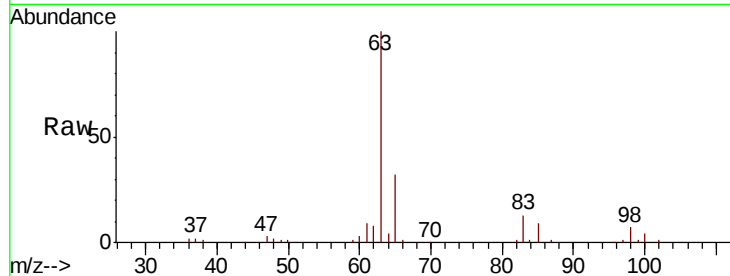
Tot Ion: 63 Resp: 173909

Ion Ratio Lower Upper

63 100

65 32.2 22.0 40.8

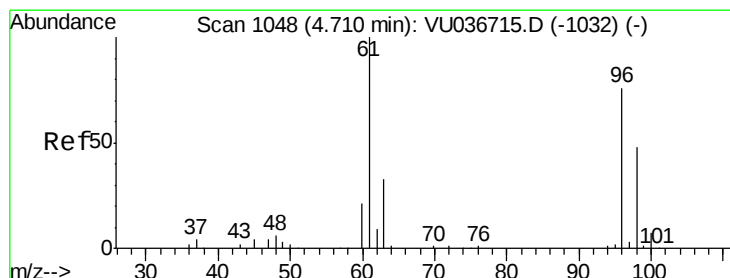
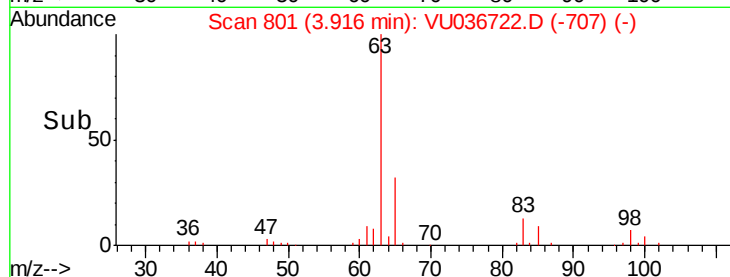
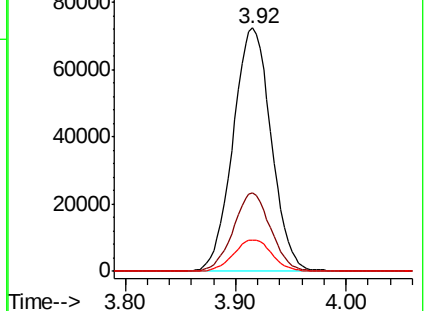
83 12.7 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU036722.D (-955) (-)

Ion 65.00 (64.70 to 65.70): VU036722.D (-955) (-)

Ion 83.00 (82.70 to 83.70): VU036722.D (-955) (-)



#20

cis-1,2-Dichloroethene

Concen: 53.760 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

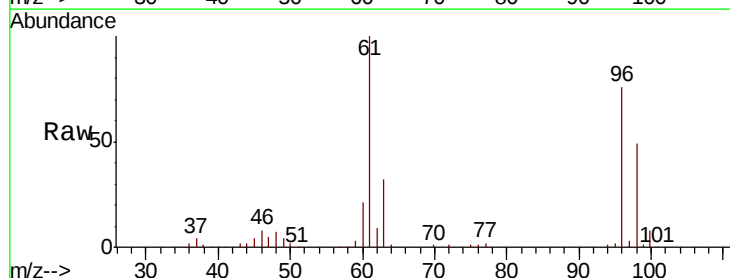
Tgt Ion: 96 Resp: 101069

Ion Ratio Lower Upper

96 100

61 130.8 93.3 173.3

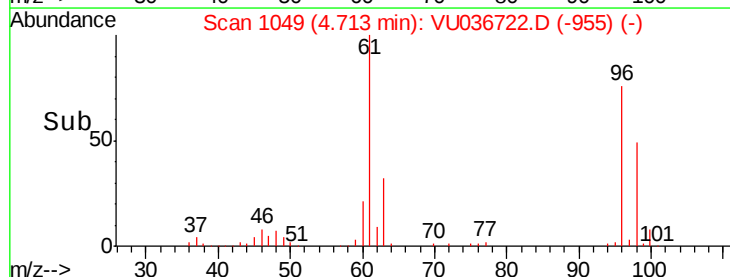
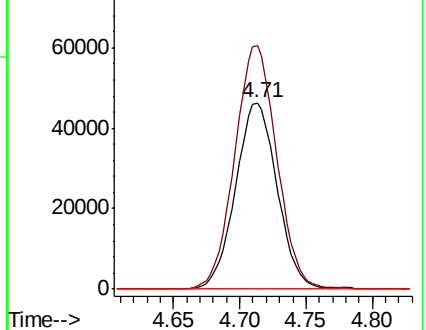
68 0.0 0.0 0.0

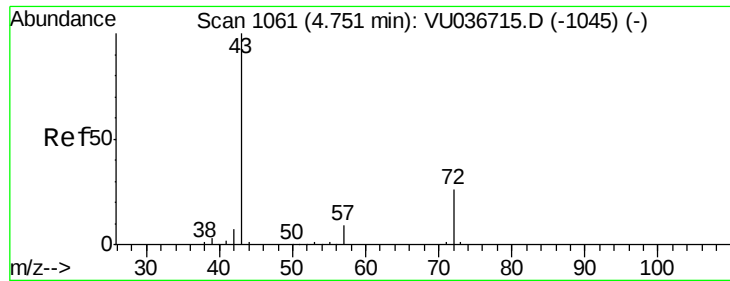


Abundance Ion 96.00 (95.70 to 96.70): VU036722.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU036722.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU036722.D (-955) (-)





#22

2-Butanone

Concen: 94.498 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

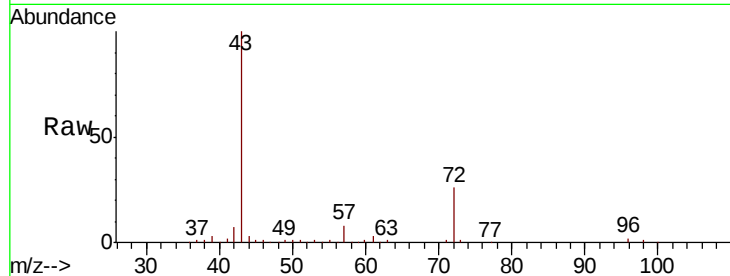
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 172090

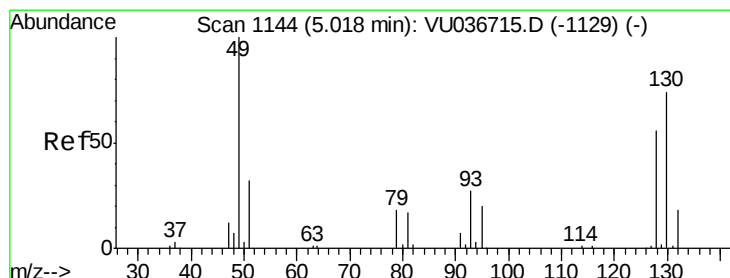
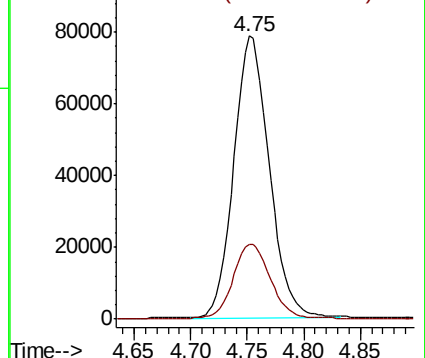
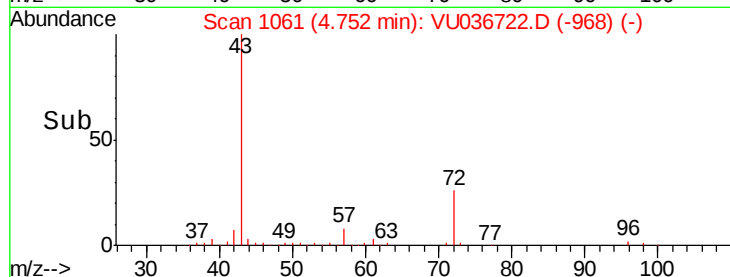
Ion Ratio Lower Upper

43 100

72 28.2 13.6 40.7



Abundance Ion 43.00 (42.70 to 43.70): VU036722.D (-968) (-)



#23

Bromochloromethane

Concen: 51.616 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Tgt Ion:128 Resp: 45472

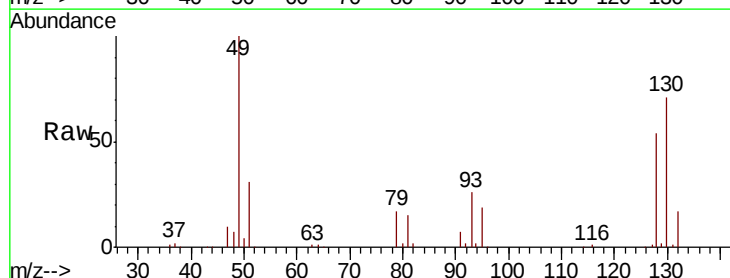
Ion Ratio Lower Upper

128 100

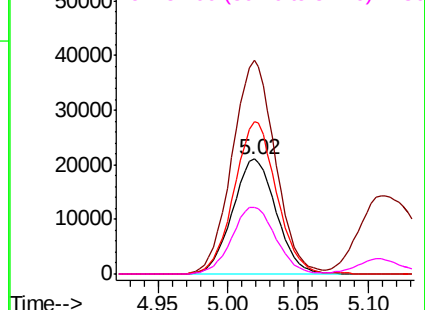
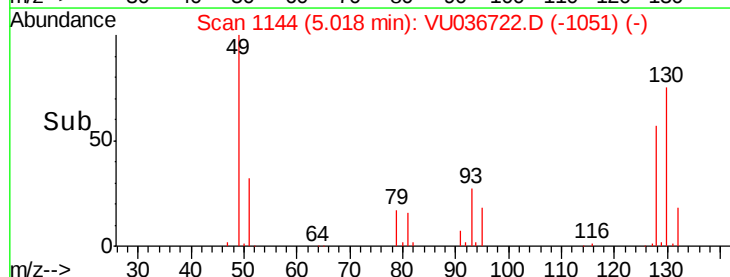
49 185.7 127.3 236.5

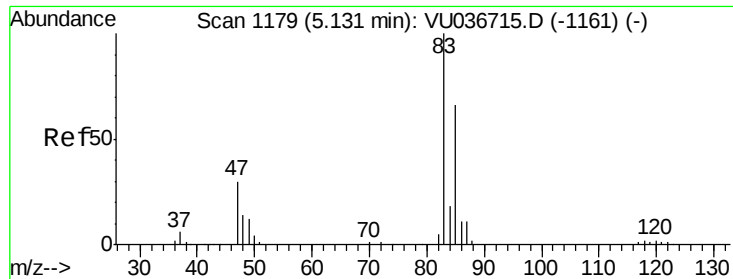
130 132.6 88.5 164.3

51 58.1 44.4 66.6



Abundance Ion 128.00 (127.70 to 128.70): VU036722.D (-1051) (-)

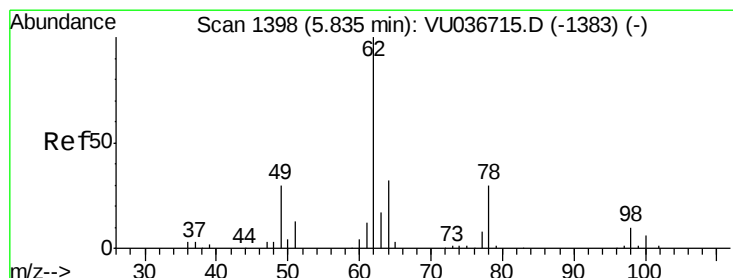
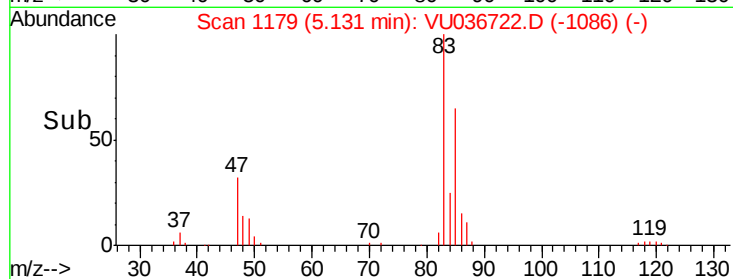
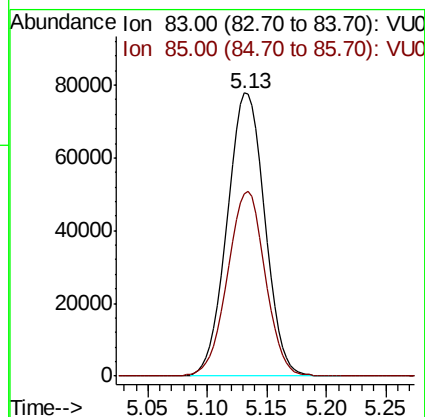
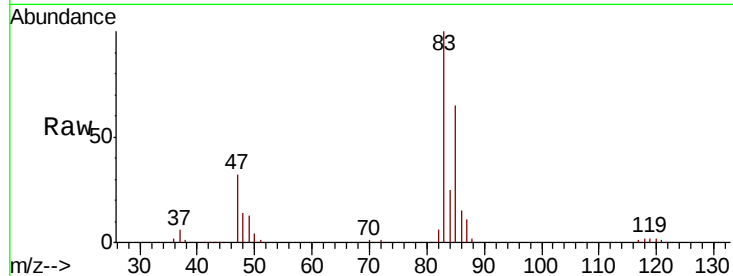




#25
Chloroform
Concen: 53.524 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

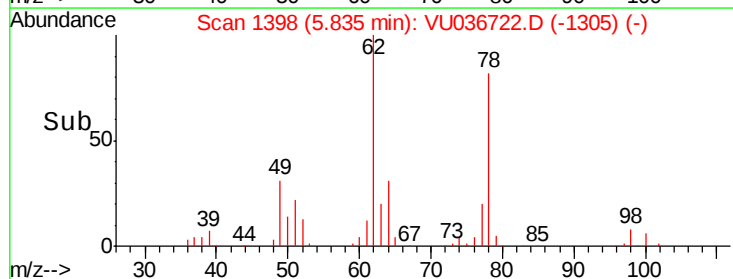
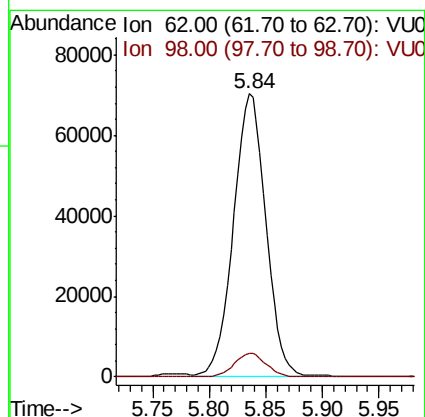
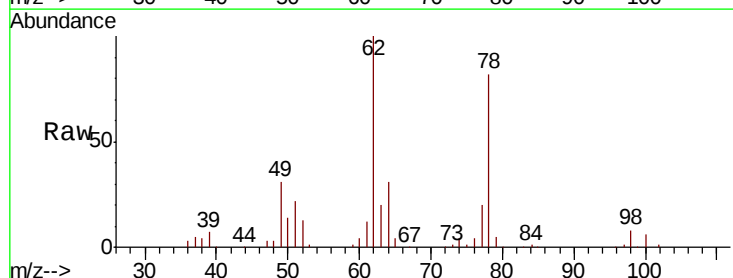
Instrument :
MSVOA_U
ClientSampleId :

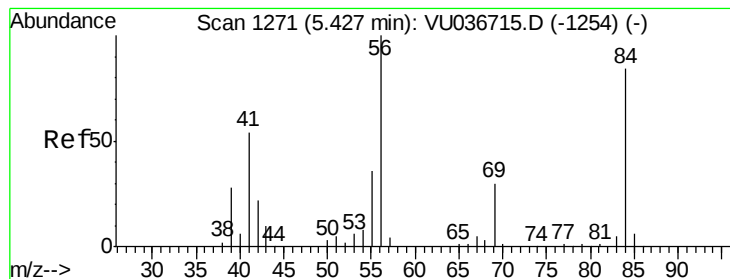
Tot Ion: 83 Resp: 171132
Ion Ratio Lower Upper
83 100
85 64.6 44.6 82.8



#27
1,2-Dichloroethane
Concen: 52.172 ug/L
RT: 5.84 min Scan# 1398
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Tgt Ion: 62 Resp: 140279
Ion Ratio Lower Upper
62 100
98 8.2 7.0 10.4





#29

Cyclohexane

Concen: 50.266 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampled :

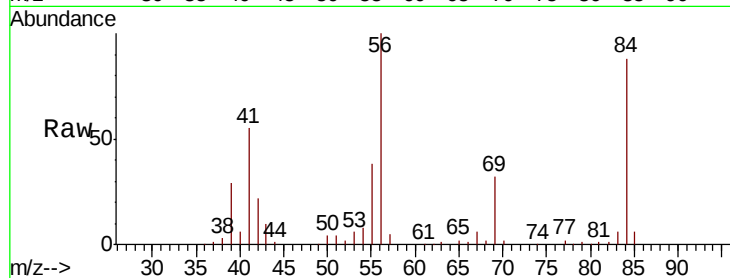
Tot Ion: 56 Resp: 155626

Ion Ratio Lower Upper

56 100

69 31.6 25.0 37.4

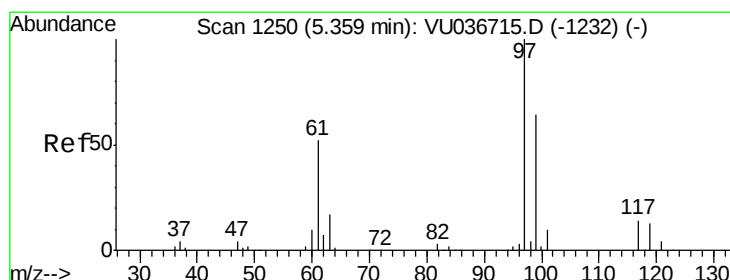
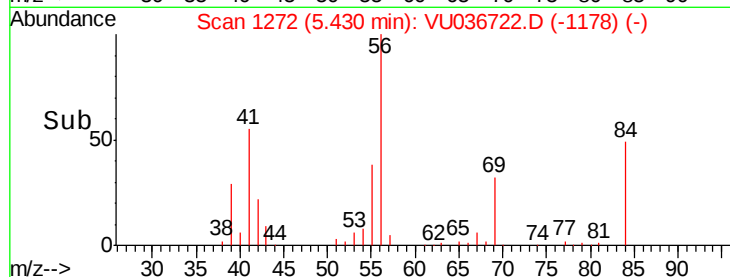
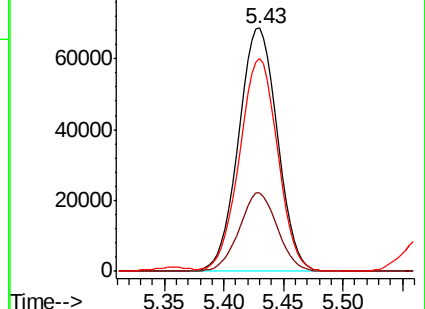
84 86.2 68.2 102.2



Abundance Ion 56.00 (55.70 to 56.70): VU036715.D (-1254) (-)

Ion 69.00 (68.70 to 69.70): VU036715.D (-1254) (-)

Ion 84.00 (83.70 to 84.70): VU036715.D (-1254) (-)



#30

1,1,1-Trichloroethane

Concen: 52.502 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

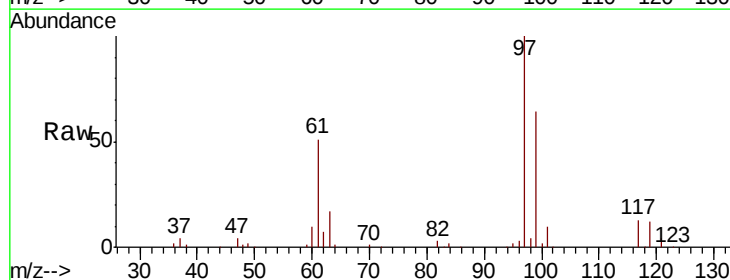
Tgt Ion: 97 Resp: 134422

Ion Ratio Lower Upper

97 100

99 63.4 50.9 76.3

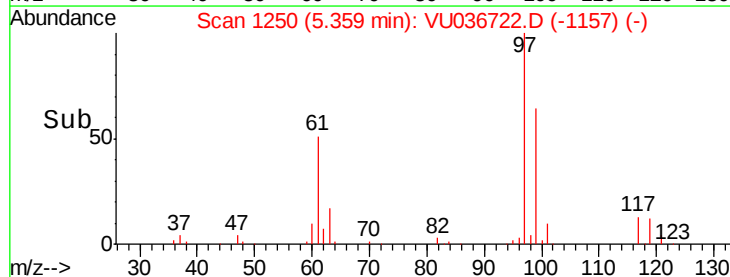
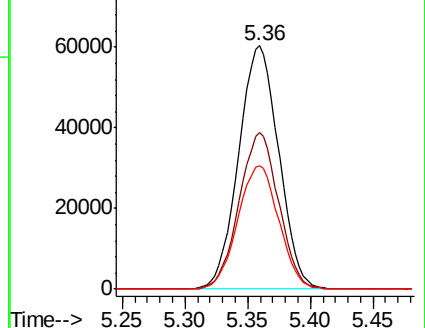
61 51.7 40.2 60.2

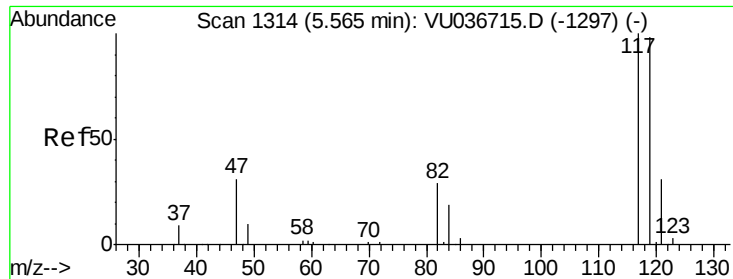


Abundance Ion 97.00 (96.70 to 97.70): VU036715.D (-1232) (-)

Ion 99.00 (98.70 to 99.70): VU036715.D (-1232) (-)

Ion 61.05 (60.75 to 61.75): VU036715.D (-1232) (-)





#31

Carbon tetrachloride

Concen: 52.299 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

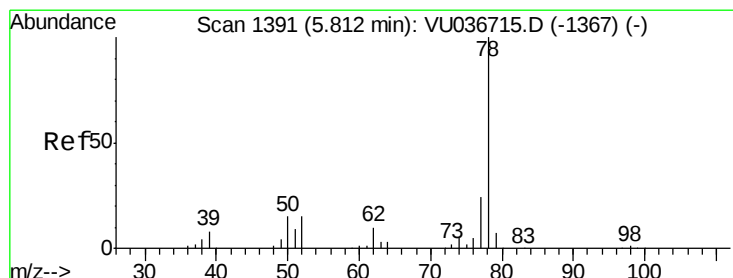
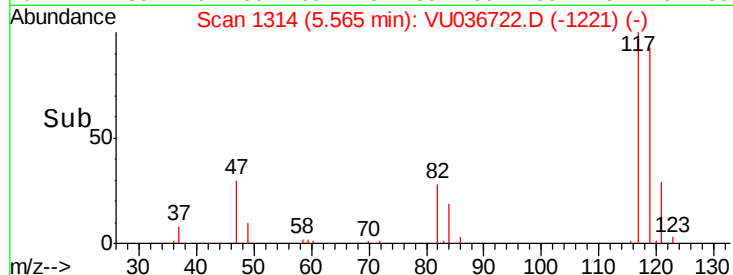
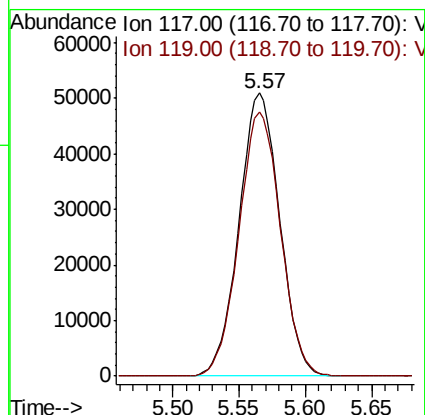
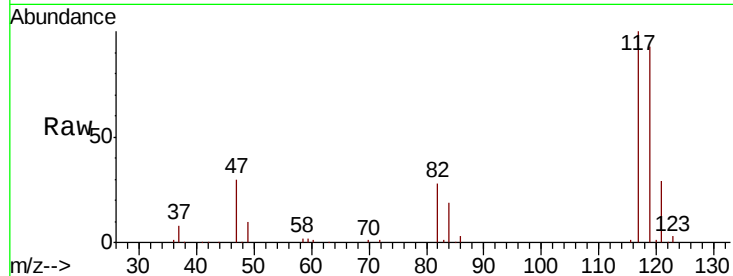
ClientSampleId :

Tot Ion:117 Resp: 108421

Ion Ratio Lower Upper

117 100

119 95.4 76.2 114.4



#33

Benzene

Concen: 52.944 ug/L

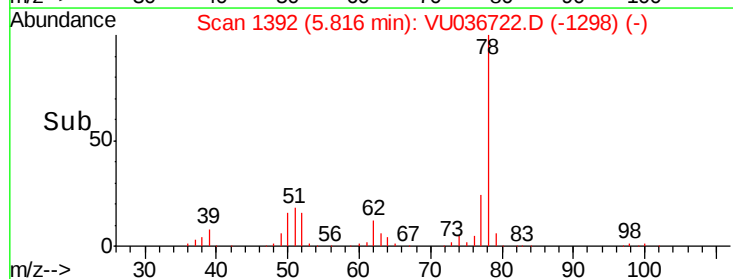
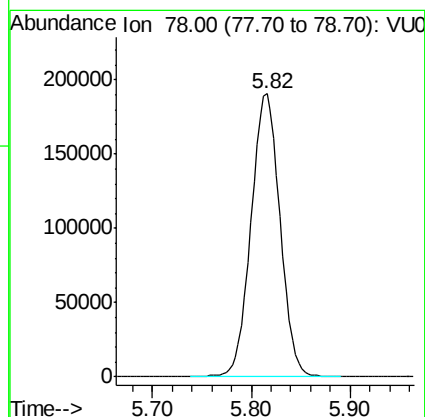
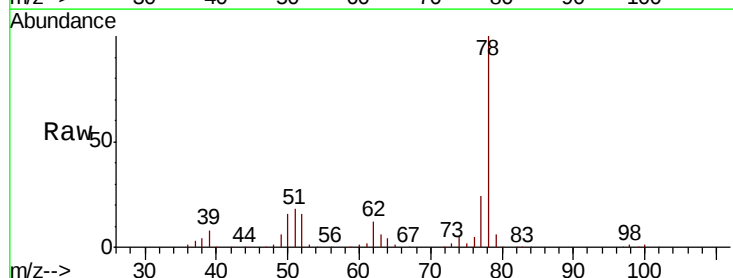
RT: 5.82 min Scan# 1392

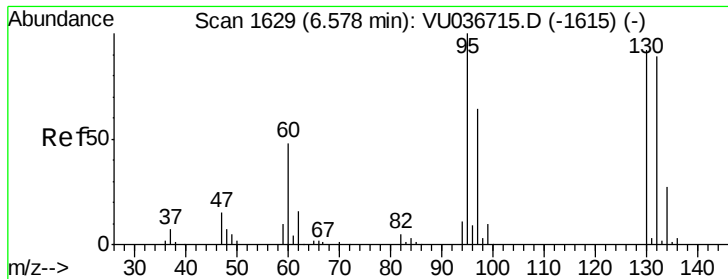
Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Tgt Ion: 78 Resp: 385970





#34

Trichloroethene

Concen: 52.938 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 95434

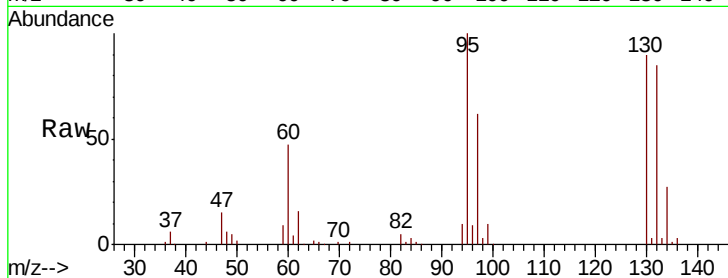
Ion Ratio Lower Upper

95 100

97 61.7 44.5 82.7

132 85.0 59.6 110.8

130 90.0 65.0 120.8

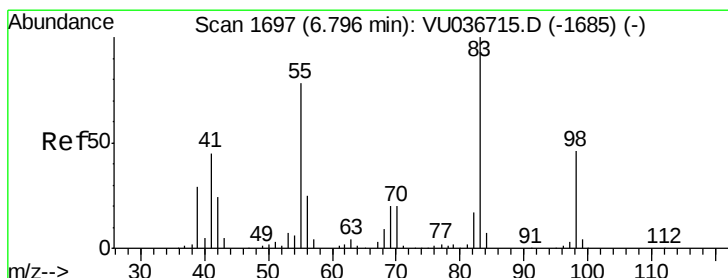
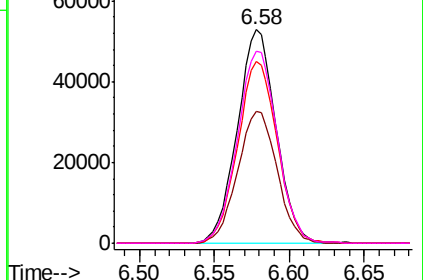
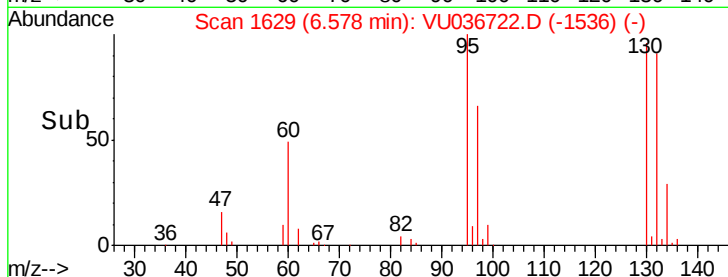


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 52.154 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

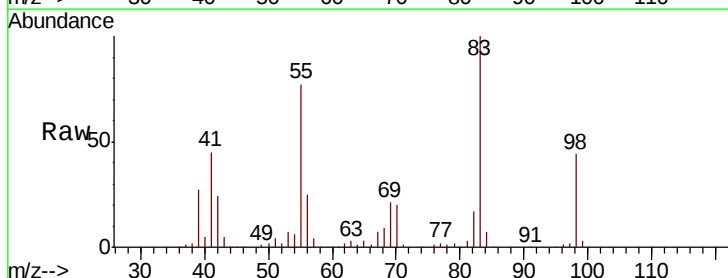
Tgt Ion: 83 Resp: 165579

Ion Ratio Lower Upper

83 100

55 77.0 61.2 91.8

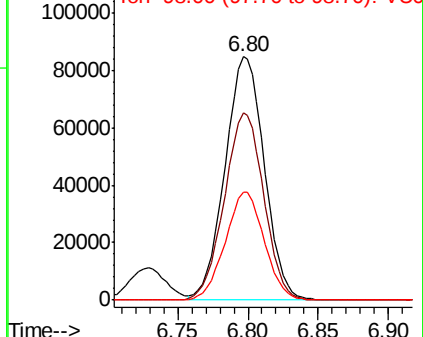
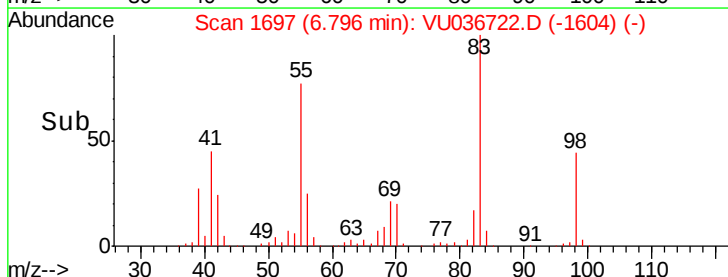
98 44.0 35.4 53.0

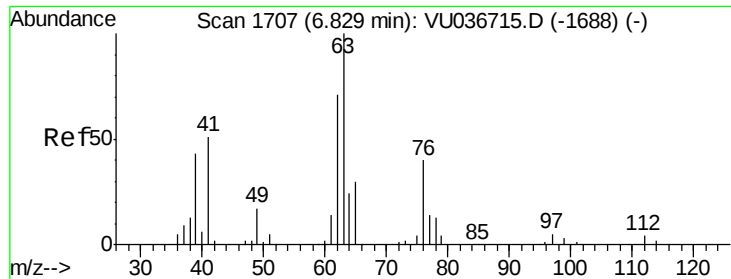


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

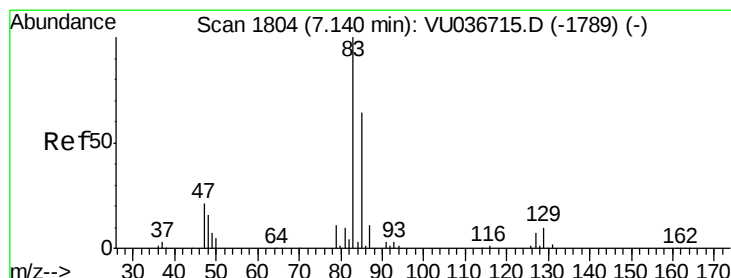
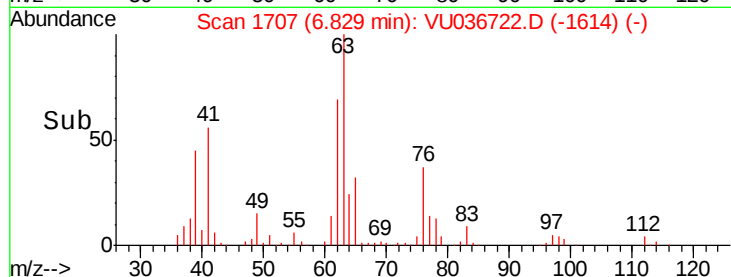
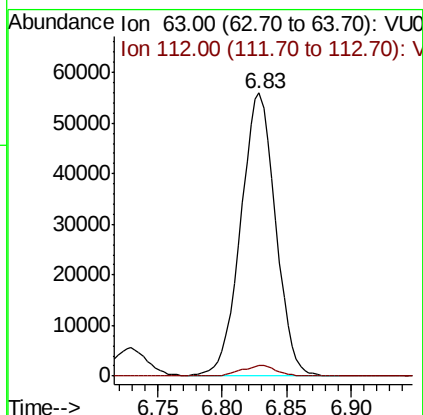
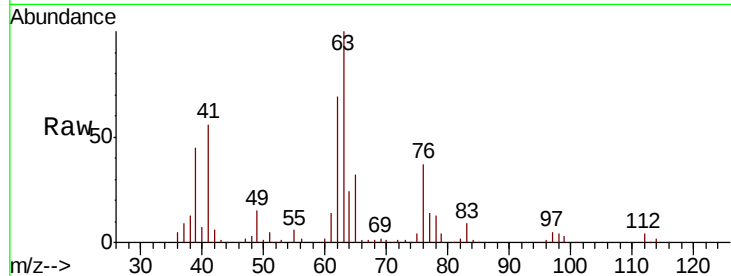




#37
 1,2-Dichloropropane
 Concen: 53.607 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

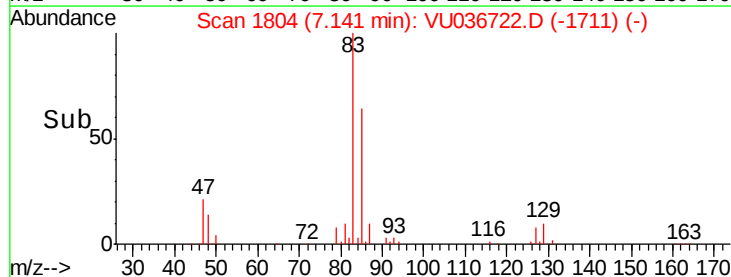
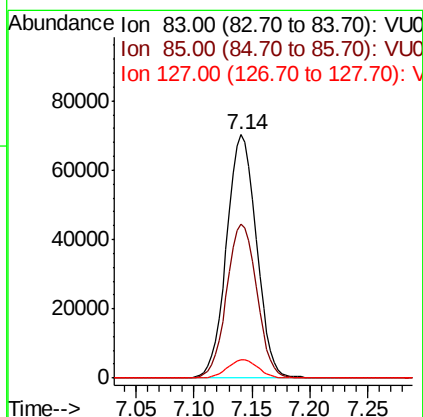
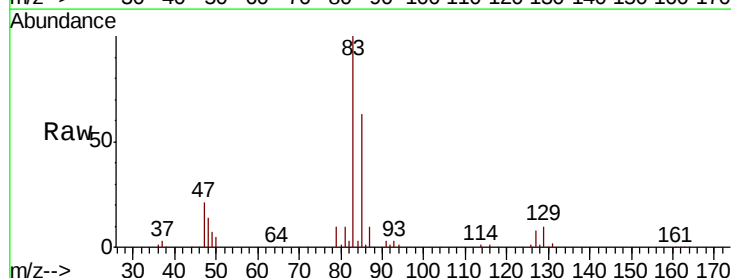
Instrument :
 MSVOA_U
 ClientSampleId :

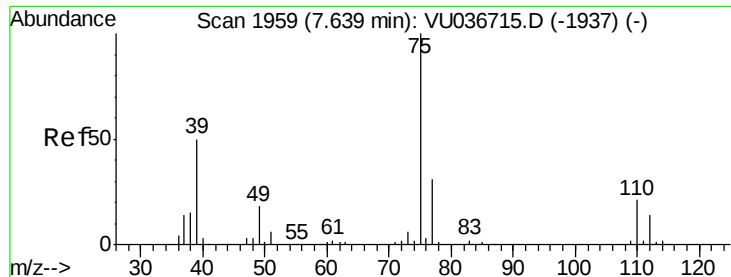
Tot Ion: 63 Resp: 105381
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#38
 Bromodichloromethane
 Concen: 52.642 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion: 83 Resp: 125755
 Ion Ratio Lower Upper
 83 100
 85 63.5 43.9 81.5
 127 7.5 6.0 9.0

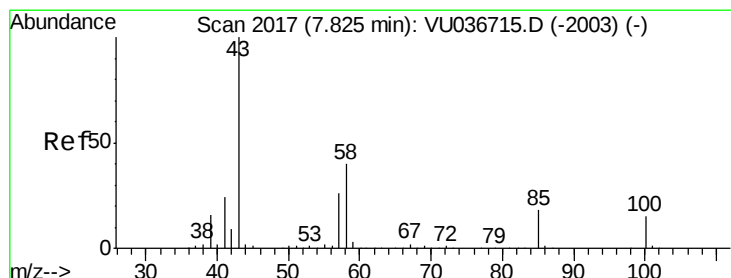
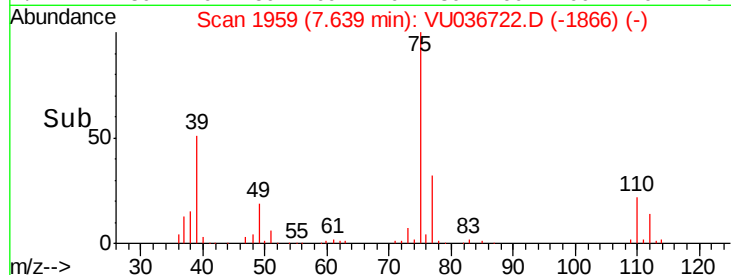
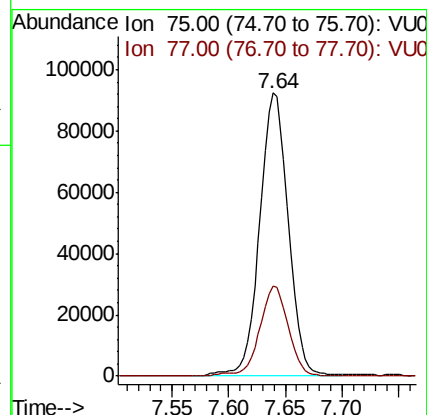
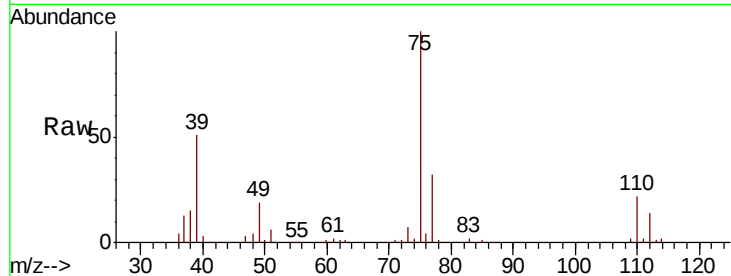




#39
 cis-1,3-Dichloropropene
 Concen: 51.810 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

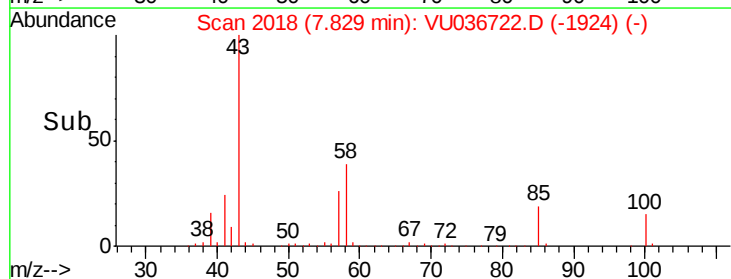
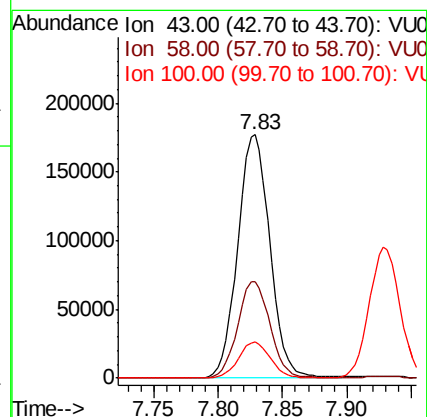
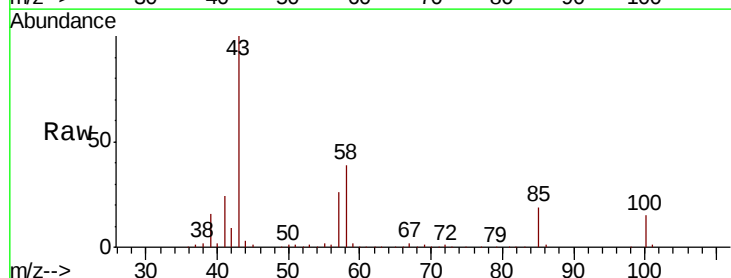
Instrument :
 MSVOA_U
 ClientSampled :

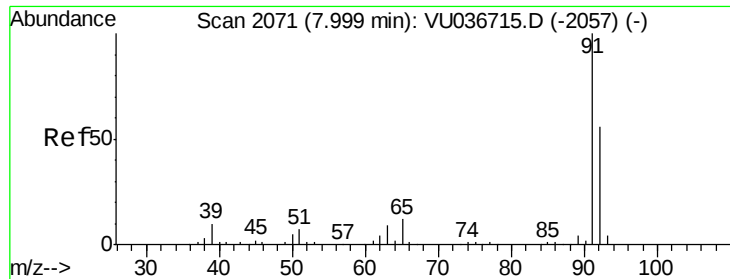
Tot Ion: 75 Resp: 162732
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 99.100 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion: 43 Resp: 307795
 Ion Ratio Lower Upper
 43 100
 58 39.8 31.0 46.6
 100 14.7 11.4 17.2





#42

Toluene

Concen: 53.024 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

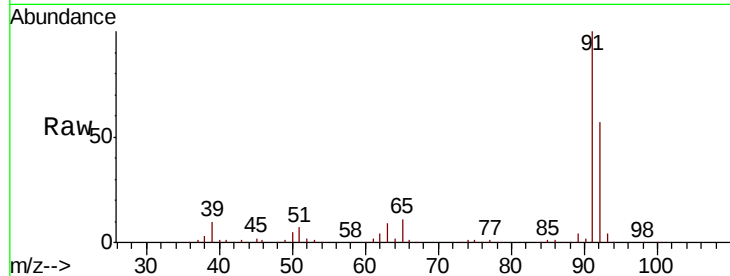
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 417696

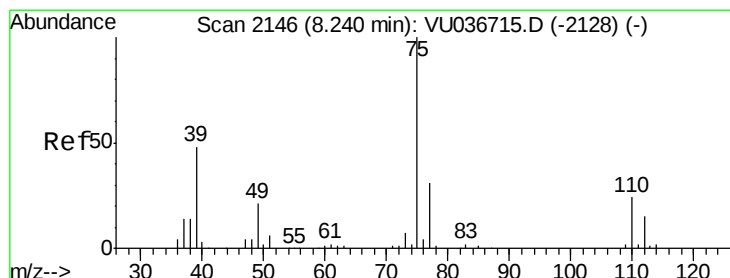
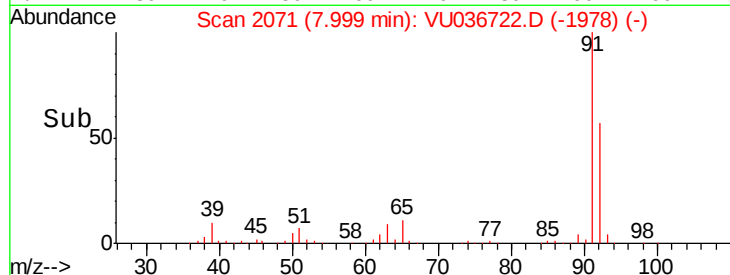
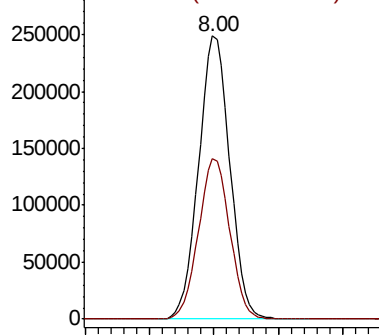
Ion Ratio Lower Upper

91 100

92 56.5 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU036715.D
Ion 92.00 (91.70 to 92.70): VU036722.D



#44

trans-1,3-Dichloropropene

Concen: 51.912 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU036722.D

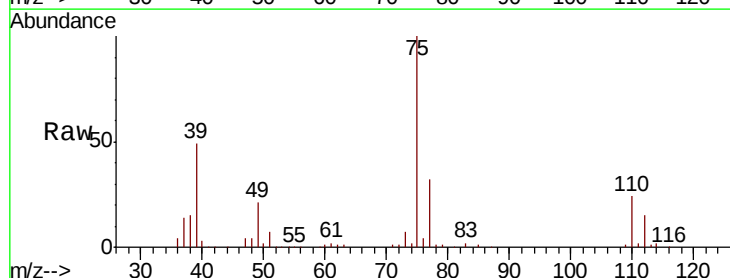
Acq: 11 Feb 2020 14:01

Tgt Ion: 75 Resp: 142443

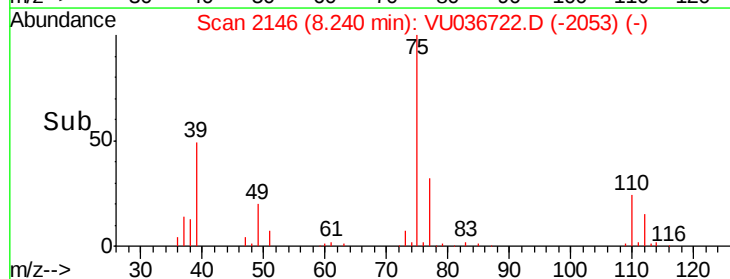
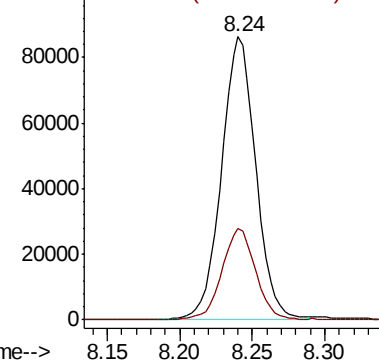
Ion Ratio Lower Upper

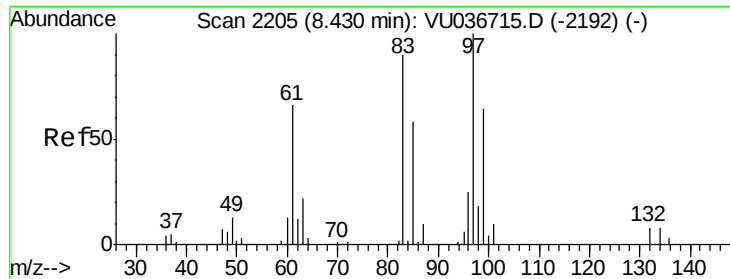
75 100

77 32.3 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036715.D
Ion 77.00 (76.70 to 77.70): VU036722.D

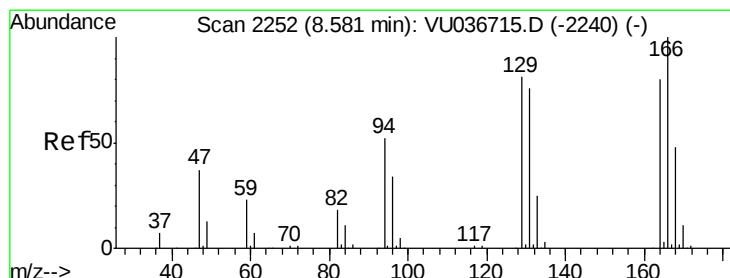
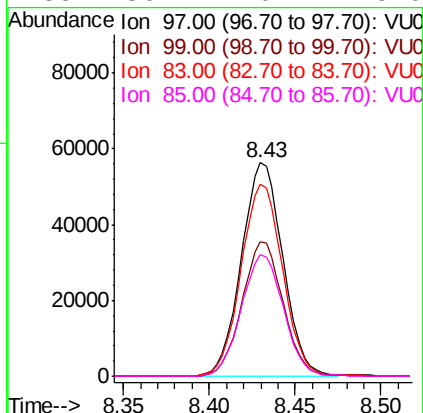
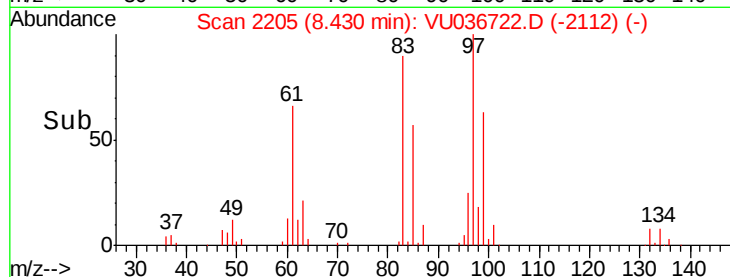
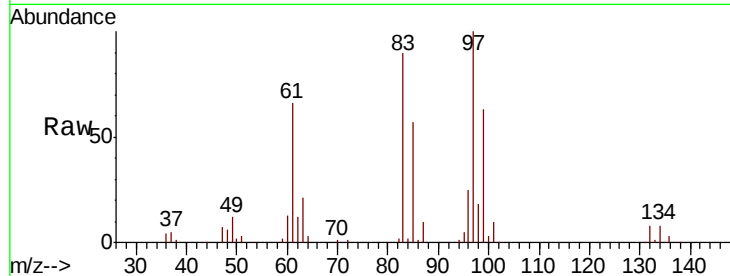




#45
 1,1,2-Trichloroethane
 Concen: 52.469 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

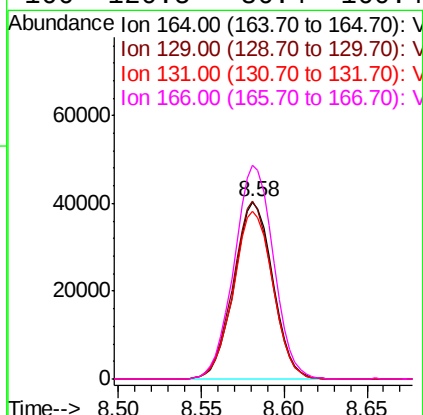
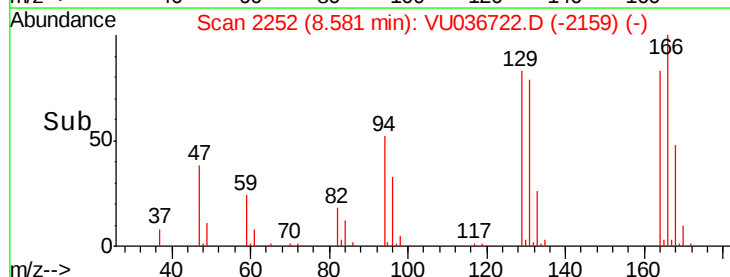
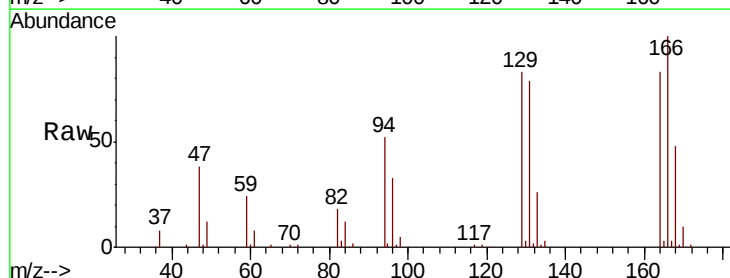
Instrument :
 MSVOA_U
 ClientSampleId :

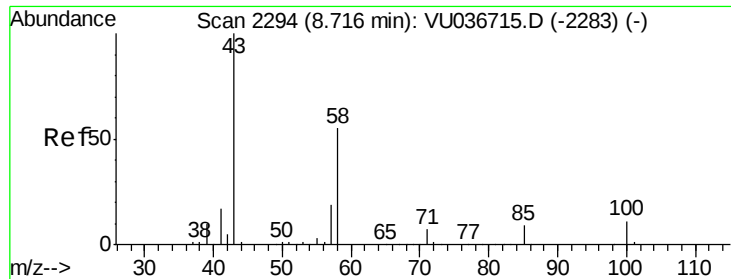
Tot Ion:	97	Resp:	94096
Ion	Ratio	Lower	Upper
97	100		
99	63.1	42.6	79.0
83	89.9	61.1	113.5
85	56.7	40.4	75.0



#46
 Tetrachloroethene
 Concen: 51.977 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion:	164	Resp:	65754
Ion	Ratio	Lower	Upper
164	100		
129	100.2	71.0	131.9
131	94.9	66.6	123.6
166	120.5	86.4	160.4

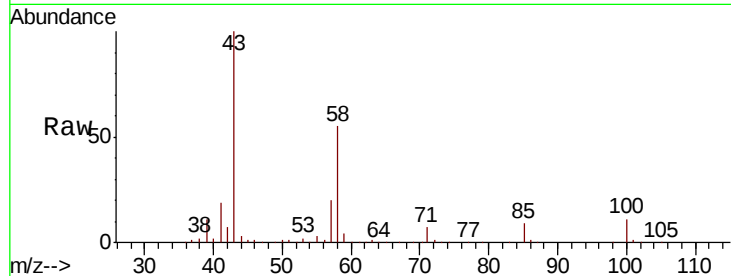




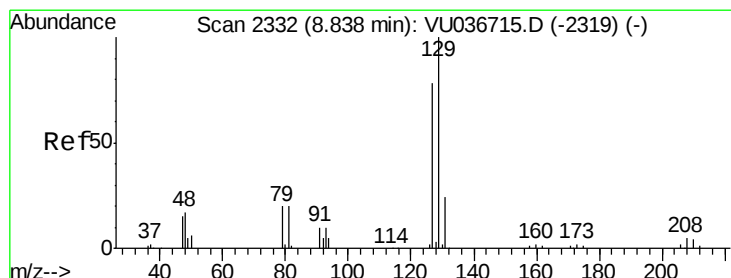
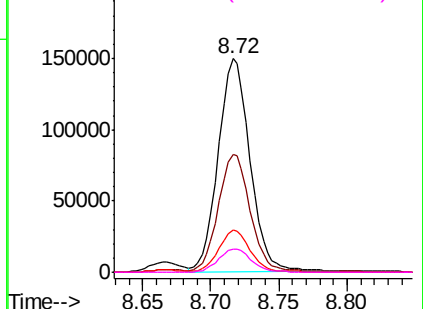
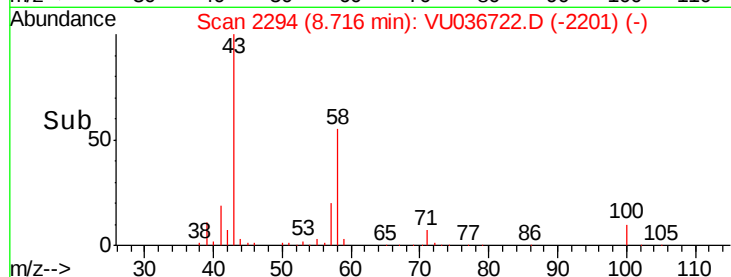
#48
2-Hexanone
Concen: 95.283 ug/L
RT: 8.72 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	241414
Ion	Ratio	Lower	Upper
43	100		
58	55.6	43.6	65.4
57	19.4	15.5	23.3
100	11.4	9.0	13.4

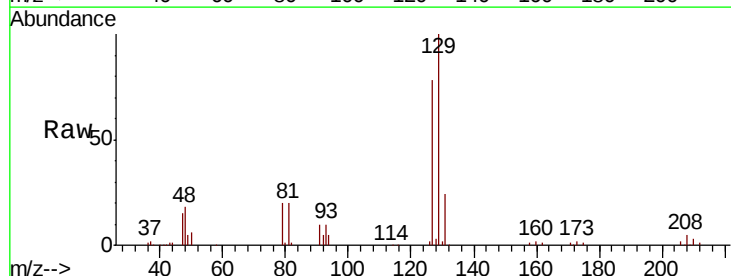


Abundance Ion 43.00 (42.70 to 43.70): VU036722.D (-2294) (-)

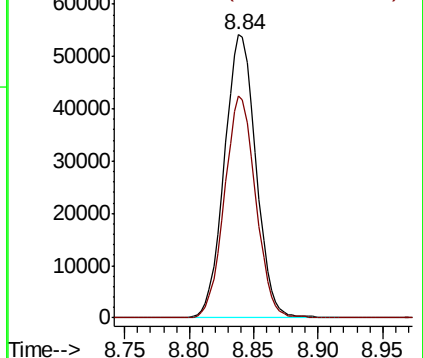
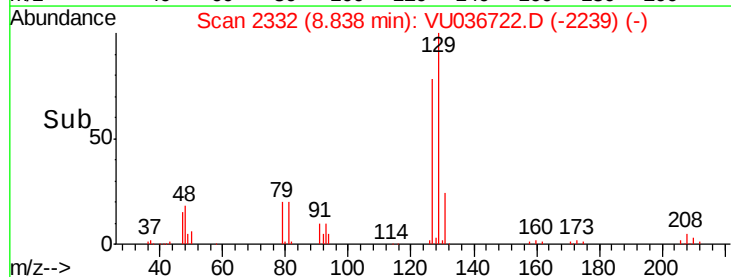


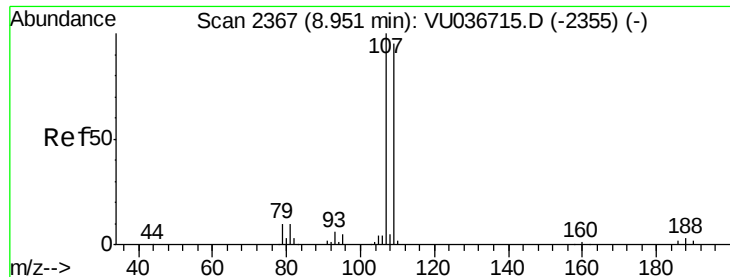
#49
Dibromochloromethane
Concen: 52.518 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Tgt Ion:	129	Resp:	92120
Ion	Ratio	Lower	Upper
129	100		
127	78.5	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036722.D (-2332) (-)

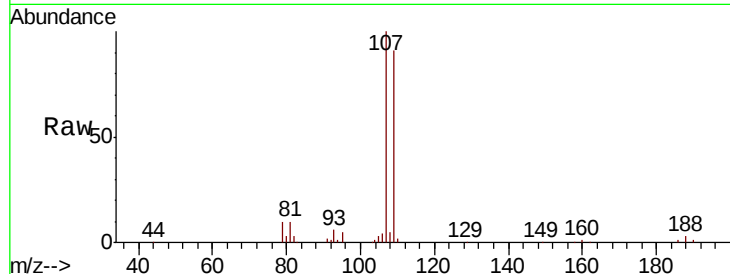




#50
1,2-Dibromoethane
Concen: 52.429 ug/L
RT: 8.95 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.7	65.8	122.2
188	2.8	2.5	3.7

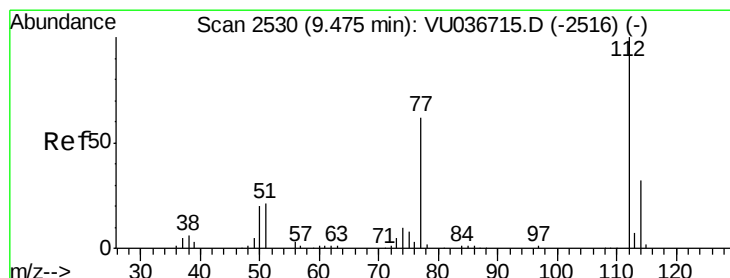
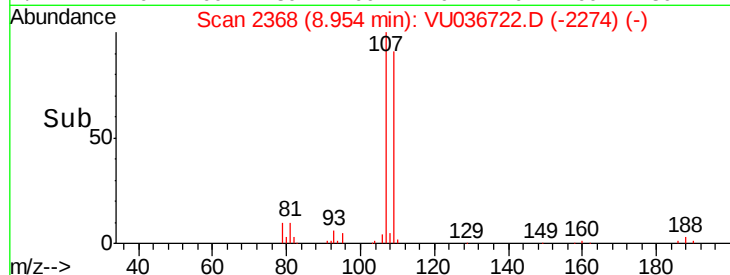
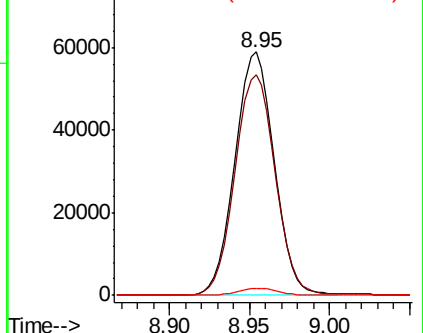


Abundance

Ion 107.00 (106.70 to 107.70): V

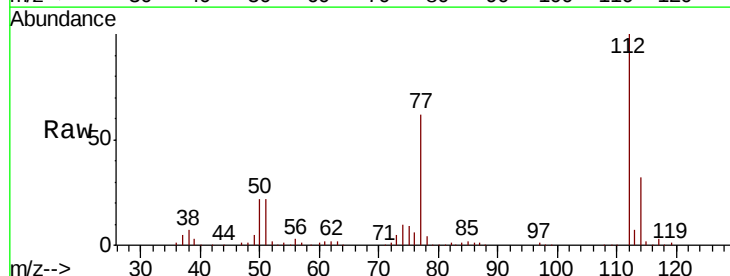
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 52.713 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036722.D
Acq: 11 Feb 2020 14:01

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.7	42.1
77	61.9	50.6	75.8

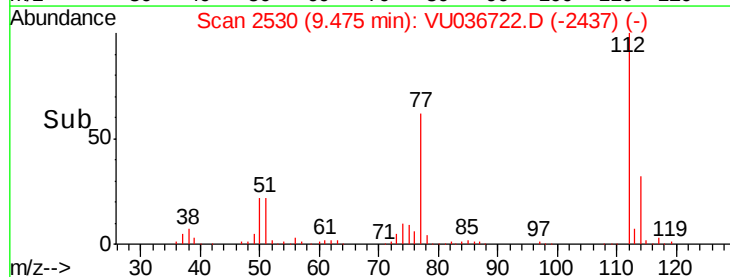
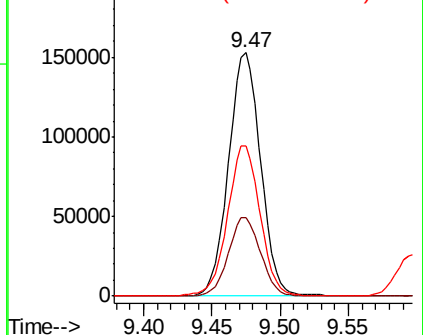


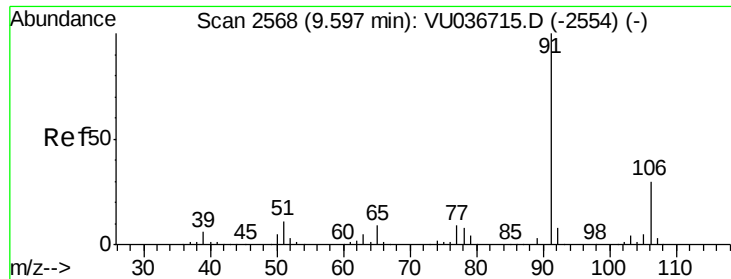
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 52.771 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

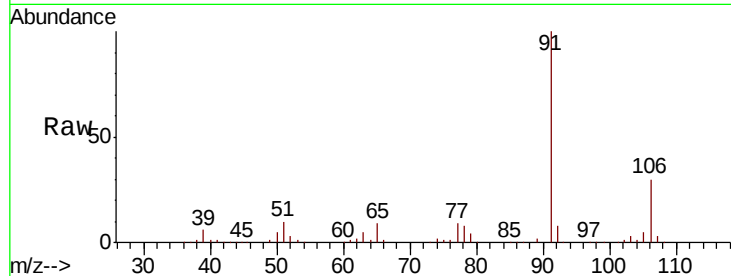
ClientSampleId :

Tot Ion: 91 Resp: 456779

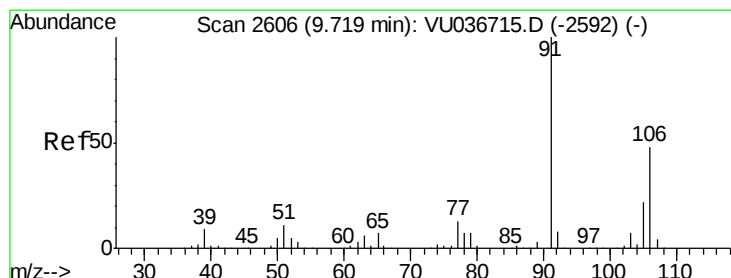
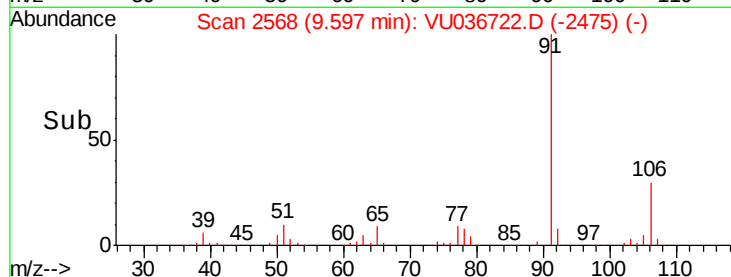
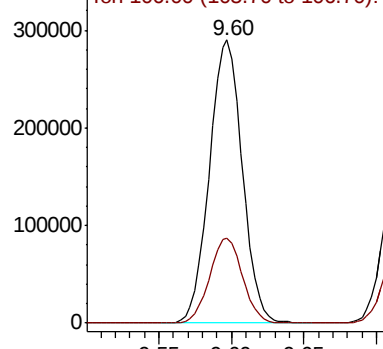
Ion Ratio Lower Upper

91 100

106 30.2 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036722.D (-2475) (-)



#53

m,p-Xylene

Concen: 53.282 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036722.D

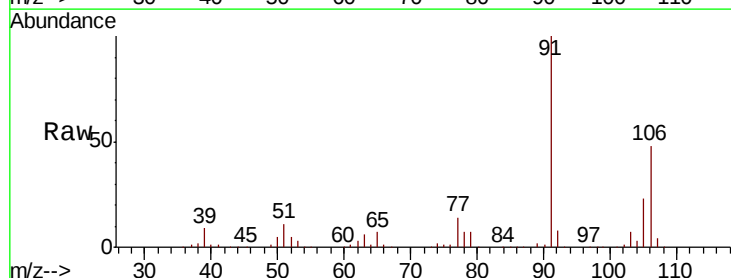
Acq: 11 Feb 2020 14:01

Tgt Ion: 106 Resp: 170134

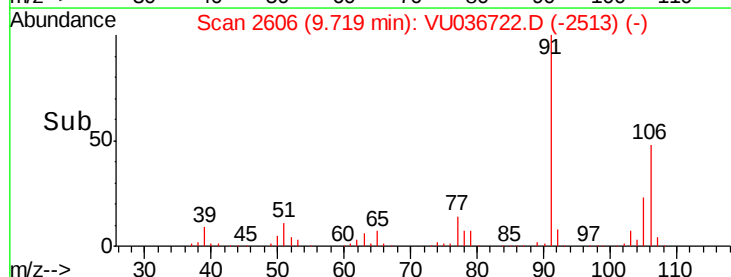
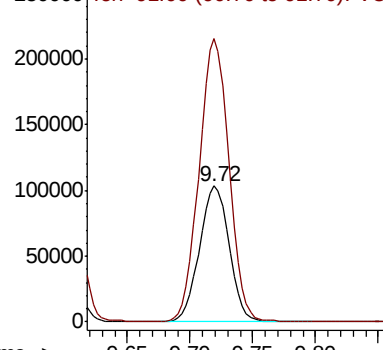
Ion Ratio Lower Upper

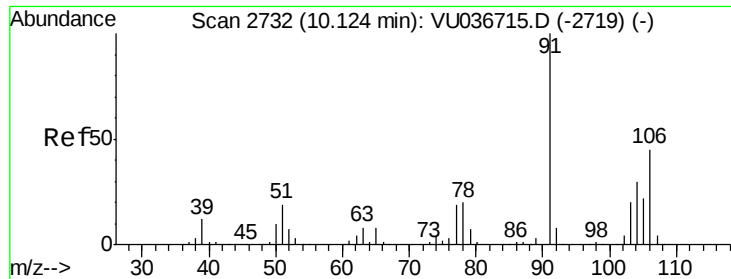
106 100

91 208.5 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036722.D (-2513) (-)





#54

o-xylene

Concen: 53.125 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

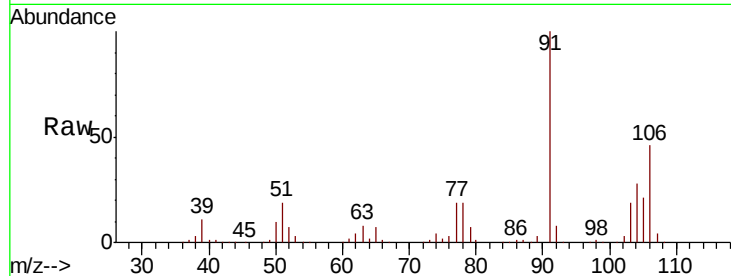
ClientSampled :

Tot Ion:106 Resp: 168045

Ion Ratio Lower Upper

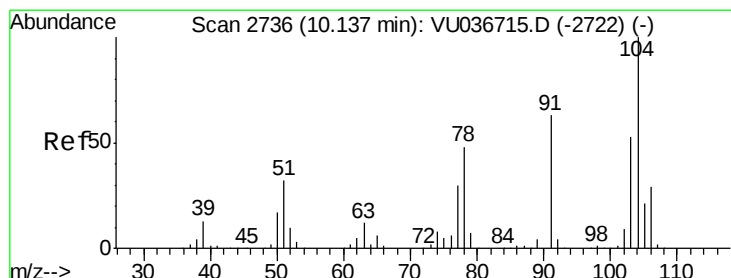
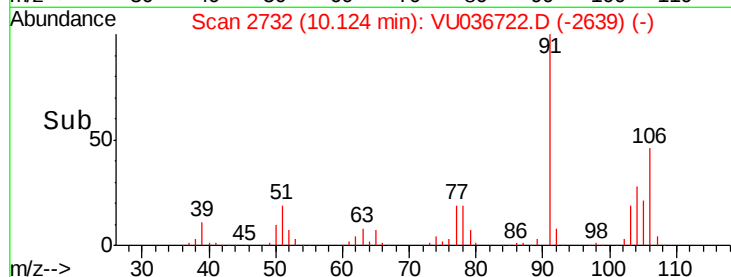
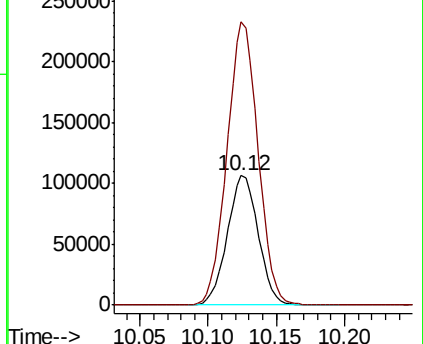
106 100

91 218.5 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.690 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036722.D

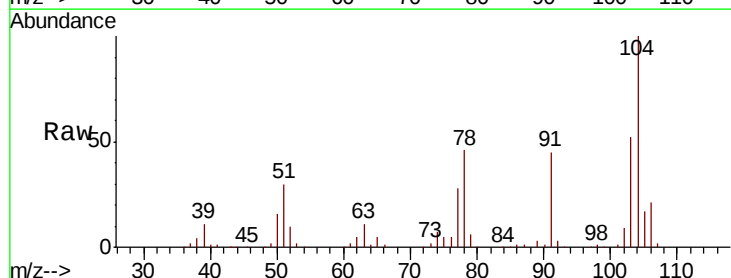
Acq: 11 Feb 2020 14:01

Tgt Ion:104 Resp: 283042

Ion Ratio Lower Upper

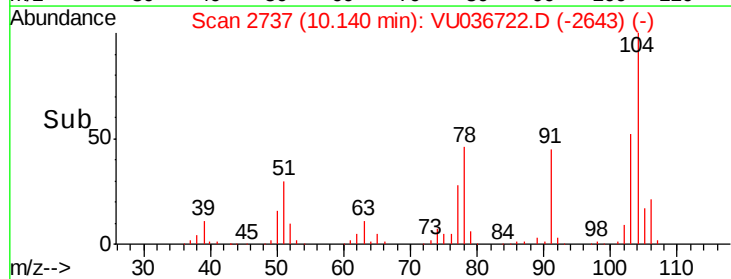
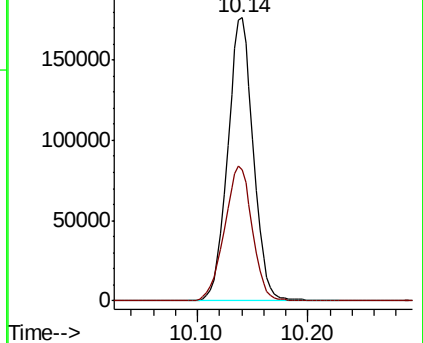
104 100

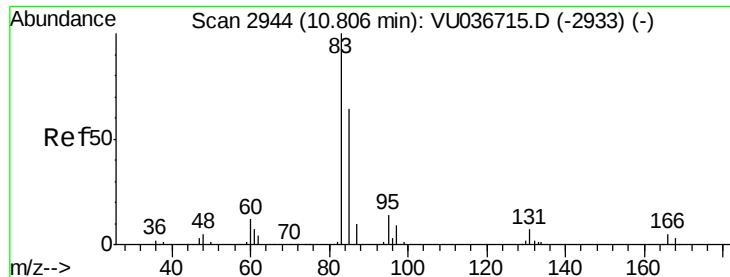
78 46.4 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

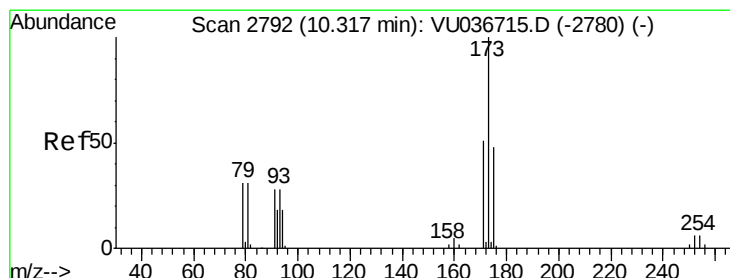
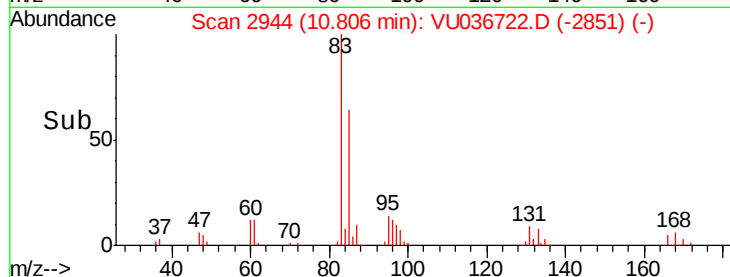
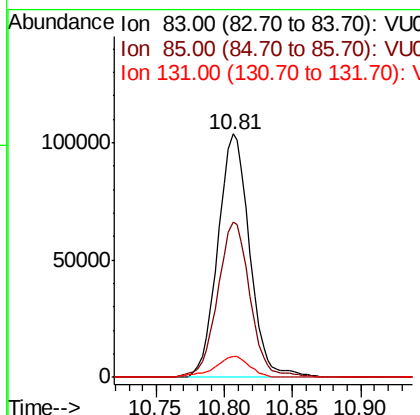
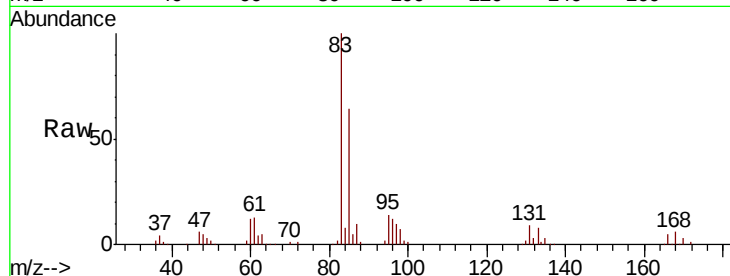




#57
 1,1,2,2-Tetrachloroethane
 Concen: 51.995 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

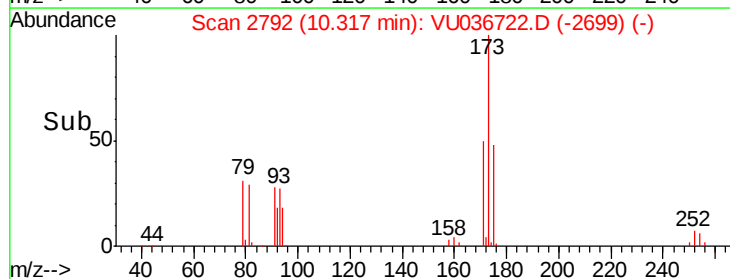
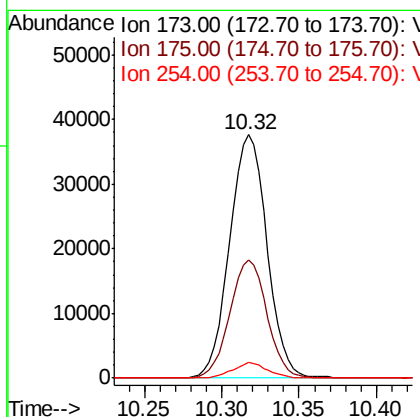
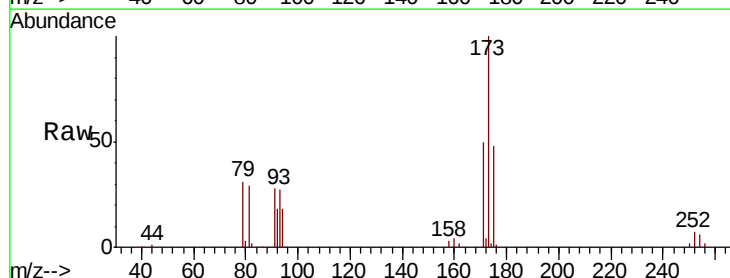
Instrument :
 MSVOA_U
 ClientSampleId :

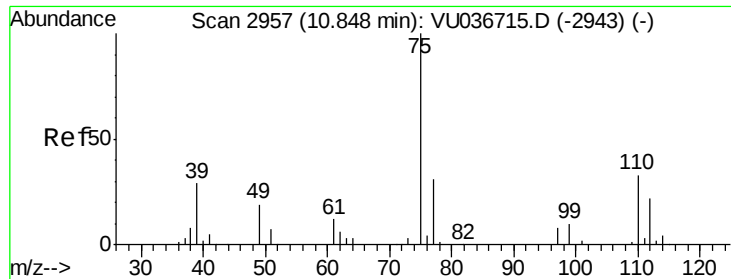
Tot Ion: 83 Resp: 168024
 Ion Ratio Lower Upper
 83 100
 85 63.9 44.7 82.9
 131 8.6 6.8 10.2



#59
 Bromoform
 Concen: 52.017 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion: 173 Resp: 63099
 Ion Ratio Lower Upper
 173 100
 175 48.3 38.2 57.4
 254 5.8 4.8 7.2

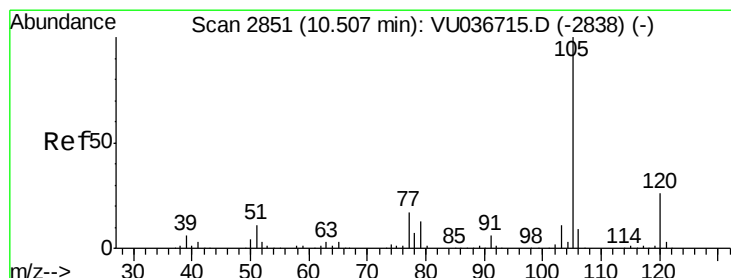
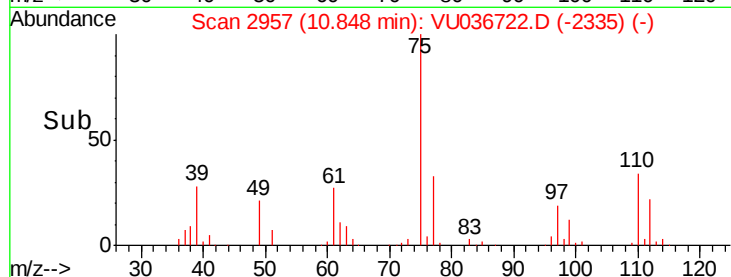
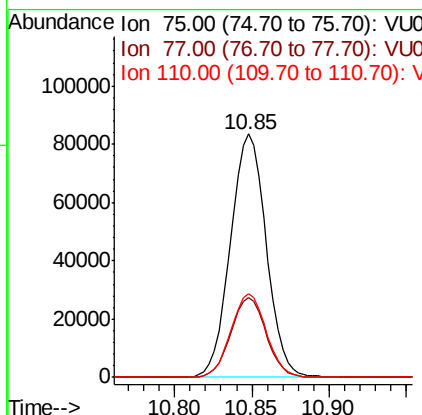
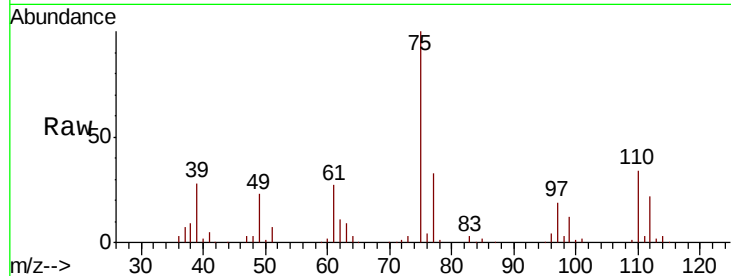




#60
 1,2,3-Trichloropropane
 Concen: 51.827 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

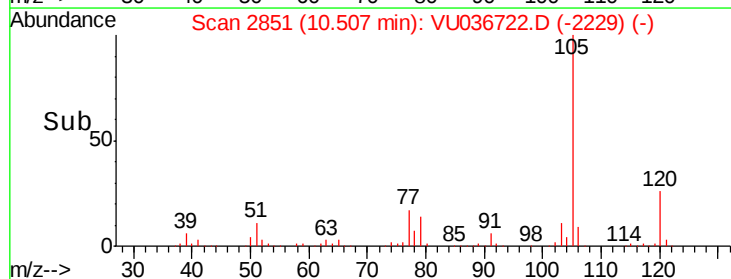
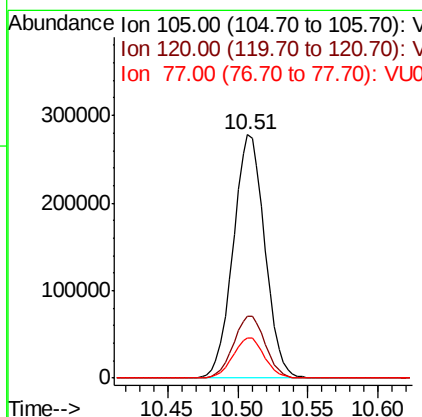
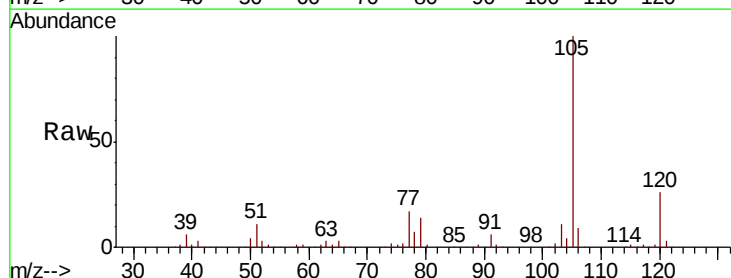
Instrument :
 MSVOA_U
 ClientSampled :

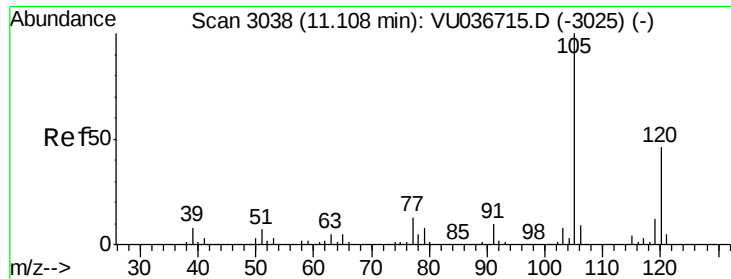
Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	26.1	39.1
110	33.9	26.9	40.3



#61
 Isopropylbenzene
 Concen: 53.285 ug/L
 RT: 10.51 min Scan# 2851
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.2	30.4
77	16.5	13.0	19.6

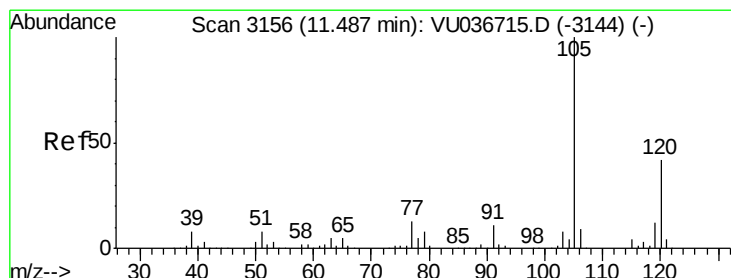
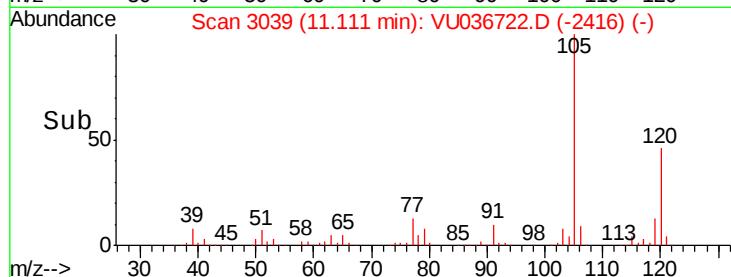
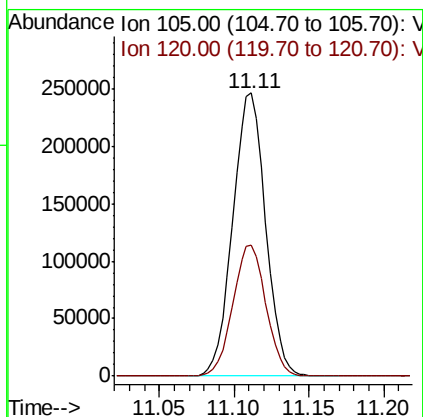
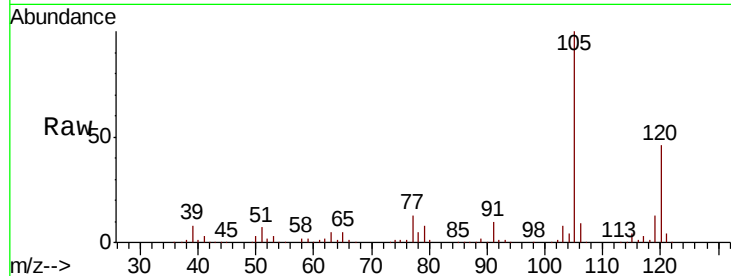




#62
 1,3,5-Trimethylbenzene
 Concen: 53.646 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

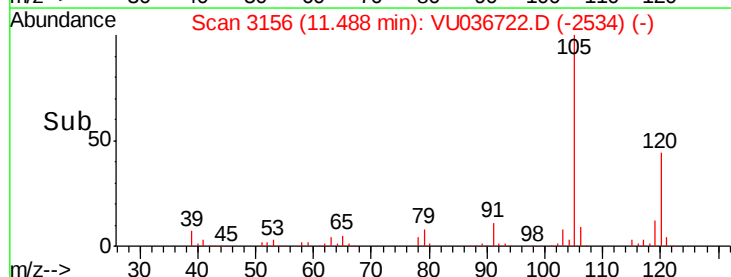
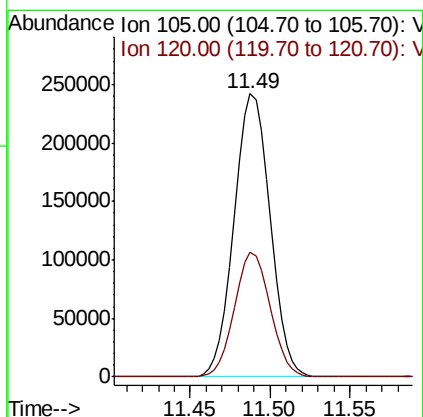
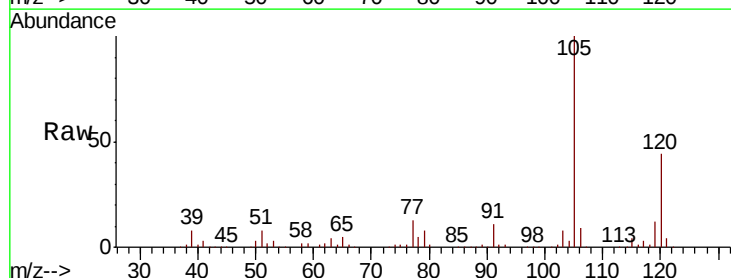
Instrument :
 MSVOA_U
 ClientSampled :

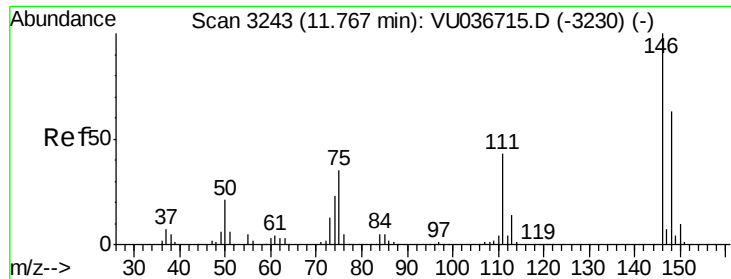
Tot Ion:105 Resp: 376033
 Ion Ratio Lower Upper
 105 100
 120 46.5 37.1 55.7



#63
 1,2,4-Trimethylbenzene
 Concen: 52.958 ug/L
 RT: 11.49 min Scan# 3156
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion:105 Resp: 370670
 Ion Ratio Lower Upper
 105 100
 120 43.6 34.7 52.1

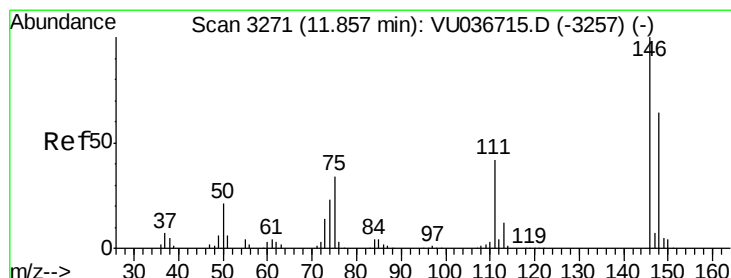
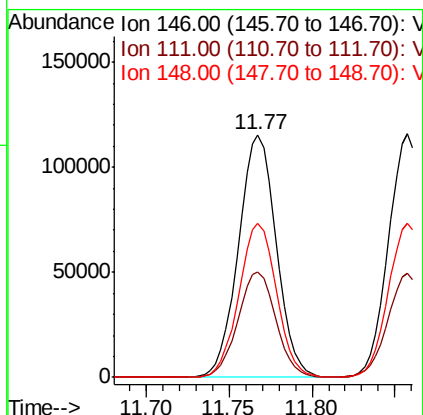
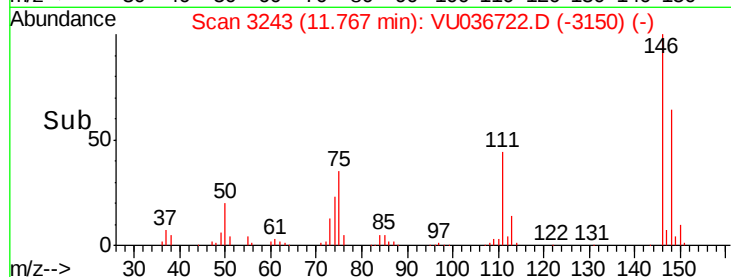
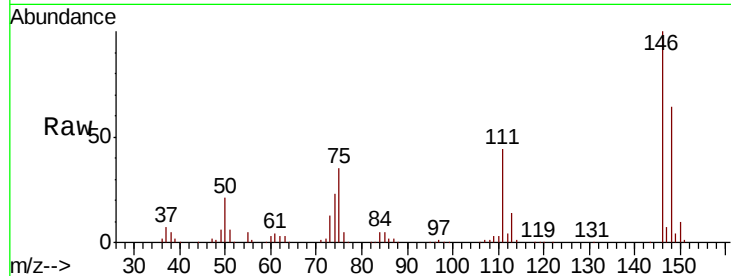




#64
 1,3-Dichlorobenzene
 Concen: 53.296 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

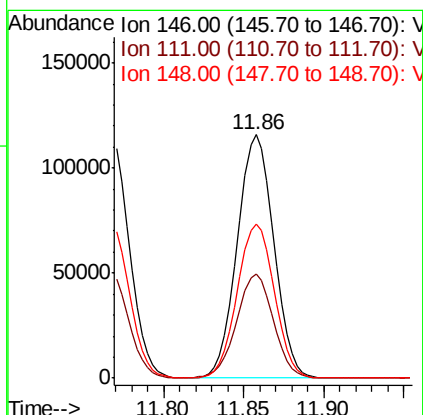
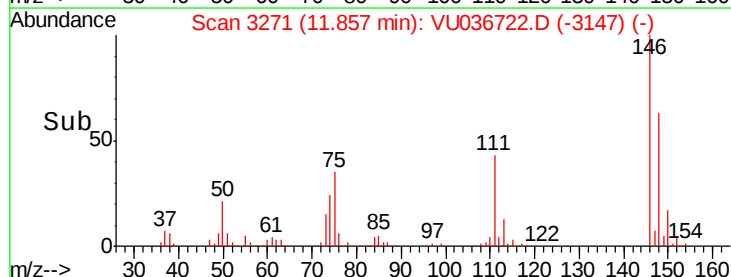
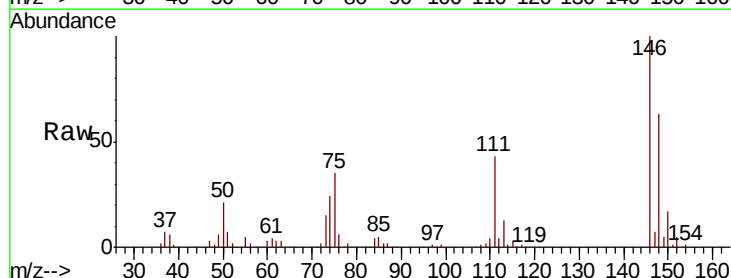
Instrument :
 MSVOA_U
 ClientSampled :

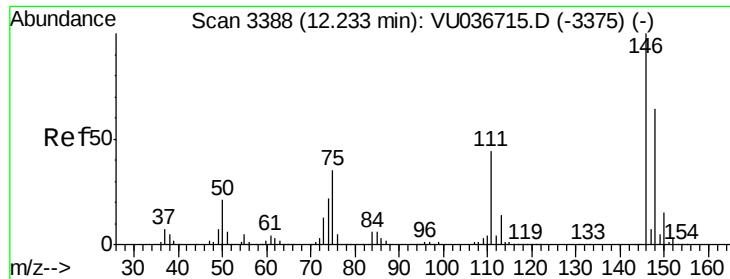
Tot Ion:146 Resp: 183242
 Ion Ratio Lower Upper
 146 100
 111 43.6 30.4 56.4
 148 63.6 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 52.170 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion:146 Resp: 180585
 Ion Ratio Lower Upper
 146 100
 111 42.6 29.3 54.3
 148 63.2 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 52.756 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampled :

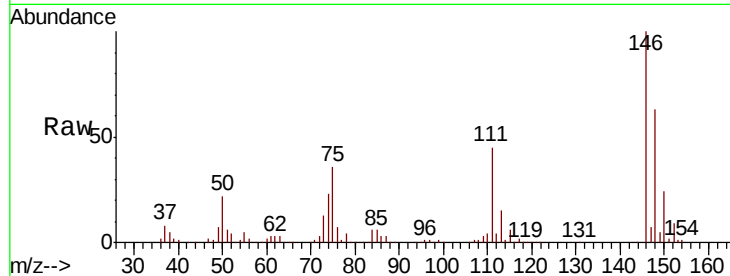
Tot Ion:146 Resp: 183650

Ion Ratio Lower Upper

146 100

111 44.7 35.4 53.0

148 62.7 50.4 75.6

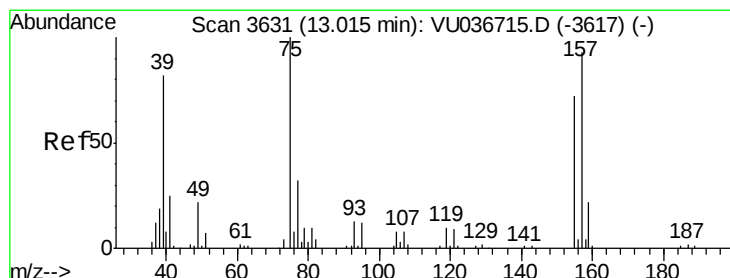
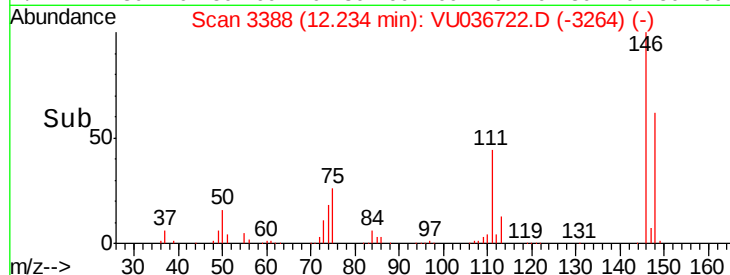
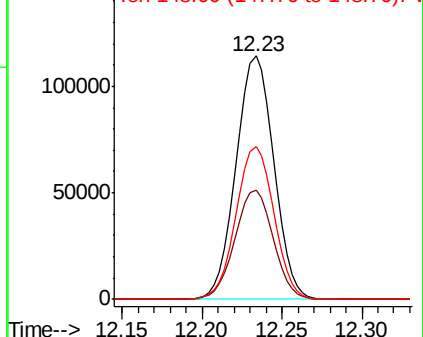


Abundance

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



#68

1,2-Dibromo-3-chloropropane

Concen: 48.107 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

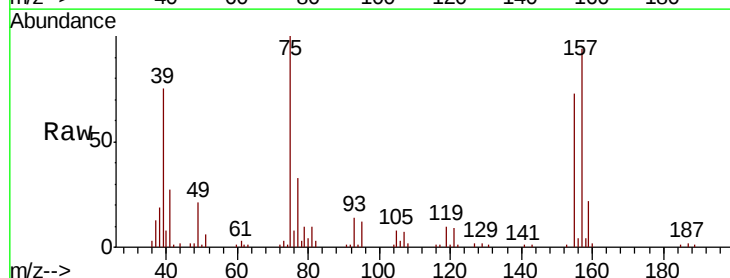
Tgt Ion: 75 Resp: 35507

Ion Ratio Lower Upper

75 100

155 73.0 58.7 88.1

157 93.6 77.8 116.6

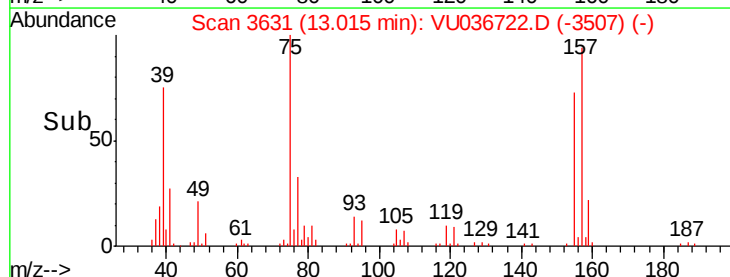
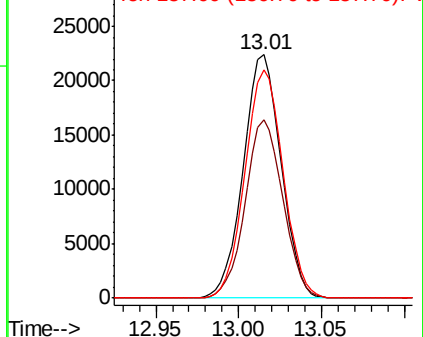


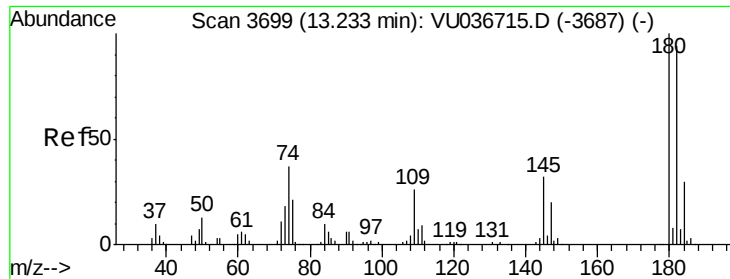
Abundance

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

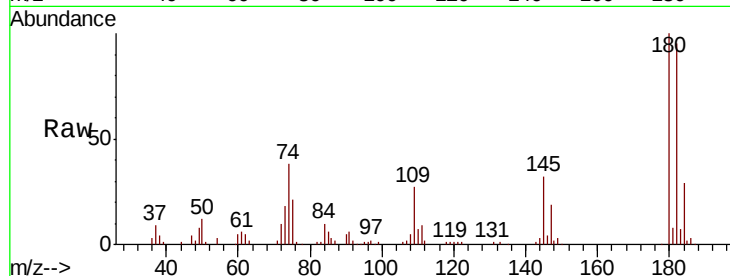




#69
 1,3,5-Trichlorobenzene
 Concen: 52.478 ug/L
 RT: 13.23 min Scan# 3699
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.2	114.4
184	29.2	23.8	35.6
145	31.8	25.0	37.6



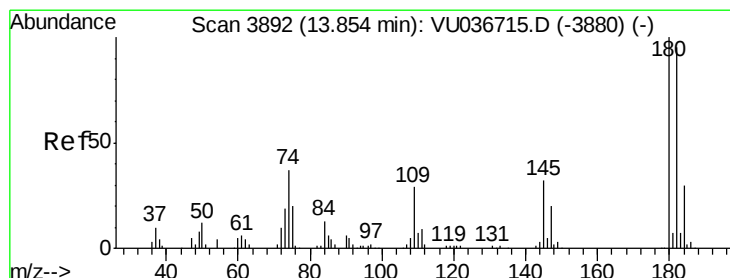
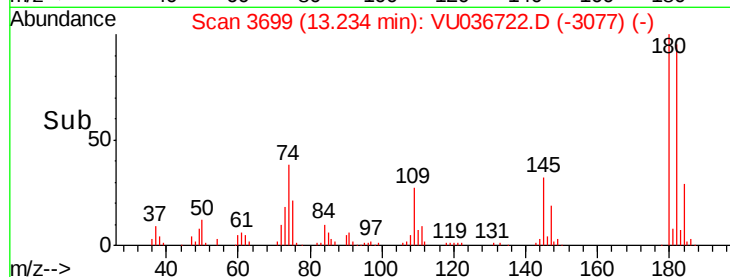
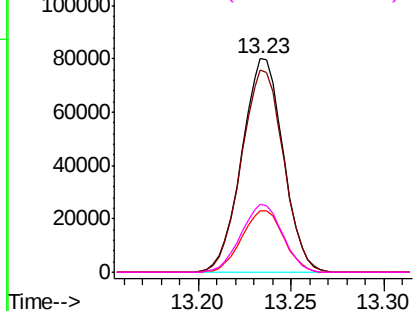
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

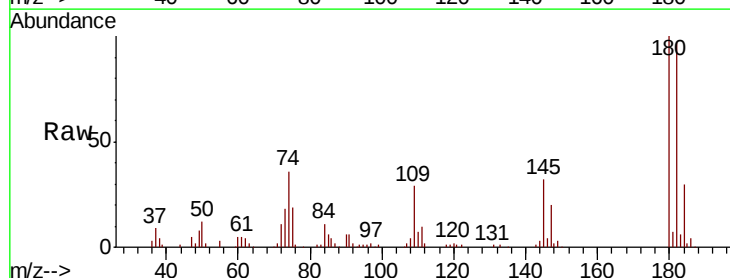
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 51.825 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036722.D
 Acq: 11 Feb 2020 14:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.1	114.1
145	32.2	25.7	38.5

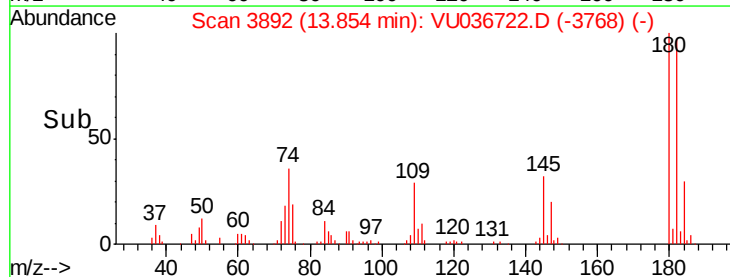
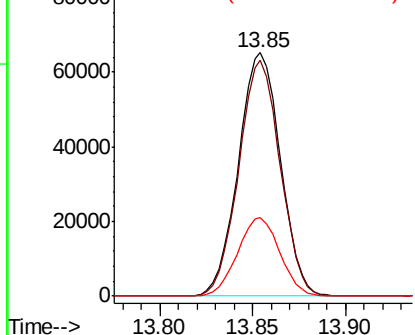


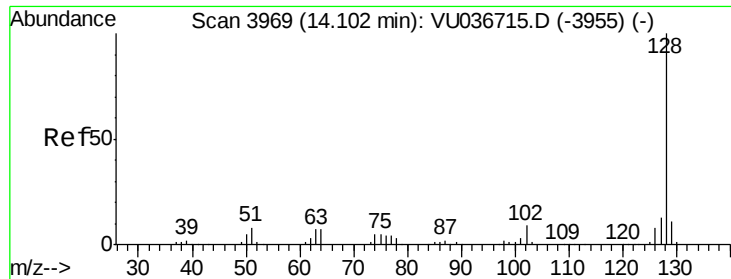
Abundance

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: 50.705 ug/L

RT: 14.10 min Scan# 3969

Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

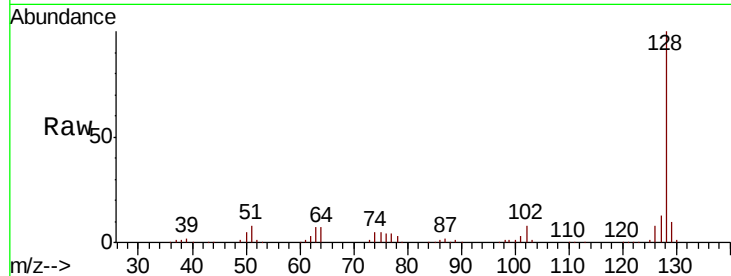
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 355335

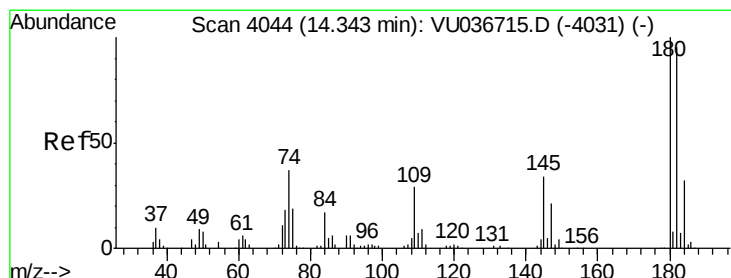
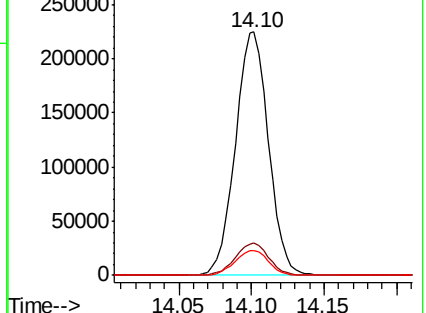
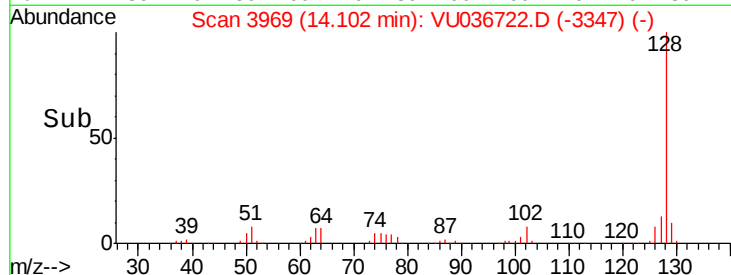
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	10.4	8.5	12.7



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: 50.555 ug/L

RT: 14.34 min Scan# 4044

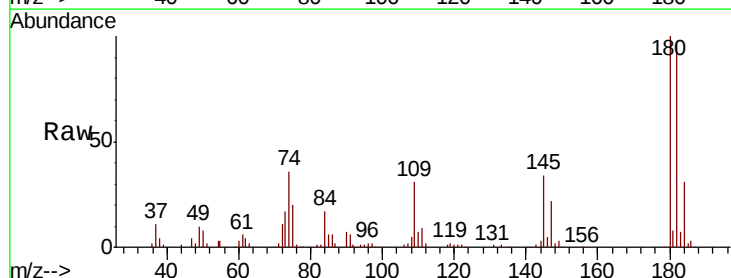
Delta R.T. 0.00 min

Lab File: VU036722.D

Acq: 11 Feb 2020 14:01

Tgt Ion:180 Resp: 100132

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.8	115.2
145	33.6	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

