

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041520\
 Data File : VU037723.D
 Acq On : 15 Apr 2020 10:00
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 16 01:10:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 15 12:04:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	272442	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	258146	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	130371	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	97537	4.73	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.60%
7) Chloroethane-d5	1.93	69	83784	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.40%
11) 1,1-Dichloroethene-d2	2.59	63	177349	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.80%
20) 2-Butanone-d5	4.68	46	333950	58.98	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.96%
24) Chloroform-d	5.10	84	169876	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.20%
26) 1,2-Dichloroethane-d4	5.74	65	100190	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.00%
32) Benzene-d6	5.76	84	345967	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.72	67	117869	5.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.80%
41) Toluene-d8	7.93	98	311827	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
43) trans-1,3-Dichloropropene-	8.20	79	51710	5.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.40%
46) 2-Hexanone-d5	8.66	63	292961	56.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.26%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	97920	5.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.40%
64) 1,2-Dichlorobenzene-d4	12.21	152	112911	4.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	124148	5.253	ug/L 99
3) Chloromethane	1.53	50	132983	4.551	ug/L 99
5) Vinyl chloride	1.62	62	142140	4.951	ug/L 98
6) Bromomethane	1.87	94	57647	3.498	ug/L 98
8) Chloroethane	1.95	64	82854	4.915	ug/L 99
9) Trichlorofluoromethane	2.16	101	155323	5.042	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	90927	5.070	ug/L 97
12) 1,1-Dichloroethene	2.60	96	89427	4.757	ug/L 97
13) Acetone	2.68	43	200370	53.675	ug/L 97
14) Carbon disulfide	2.82	76	325839	4.747	ug/L 99
15) Methyl Acetate	2.99	43	55830	5.379	ug/L 98
16) Methylene chloride	3.08	84	104538	4.932	ug/L 95
17) Methyl tert-butyl Ether	3.40	73	278442	5.115	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	98515	4.833	ug/L 97
19) 1,1-Dichloroethane	3.91	63	201856	5.120	ug/L 99
21) 2-Butanone	4.76	43	371504	54.774	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	108439	4.924	ug/L 94

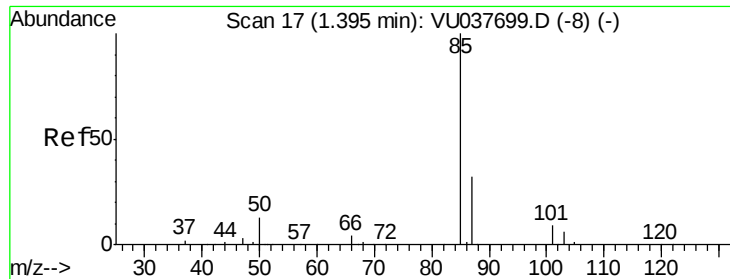
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041520\
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Quant Time: Apr 16 01:10:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 15 12:04:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	45593	4.884	ug/L	97
25) Chloroform	5.13	83	193680	5.172	ug/L	98
27) 1,2-Dichloroethane	5.83	62	135261	5.343	ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	163664	5.225	ug/L	98
30) Cyclohexane	5.42	56	203312	5.244	ug/L	97
31) Carbon tetrachloride	5.56	117	127962	5.127	ug/L	99
33) Benzene	5.81	78	431207	5.056	ug/L	100
34) Trichloroethene	6.57	95	105776	5.046	ug/L	96
35) Methylcyclohexane	6.79	83	190880	5.196	ug/L	98
37) 1,2-Dichloropropane	6.82	63	117040	5.174	ug/L	99
38) Bromodichloromethane	7.13	83	140756	5.233	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	180726	5.104	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	908744	54.644	ug/L	98
42) Toluene	8.00	91	450450	5.042	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	159118	5.176	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	78012	5.118	ug/L	99
47) Tetrachloroethene	8.58	164	74562	4.950	ug/L	99
48) 2-Hexanone	8.71	43	644857	54.158	ug/L	99
49) Dibromochloromethane	8.83	129	87339	5.014	ug/L	100
50) 1,2-Dibromoethane	8.95	107	73844	5.038	ug/L	100
51) Chlorobenzene	9.47	112	270107	4.955	ug/L	98
52) Ethylbenzene	9.59	91	507992	5.111	ug/L	98
53) m,p-Xylene	9.71	106	189679	5.042	ug/L	100
54) o-Xylene	10.12	106	183769	4.963	ug/L	96
55) Styrene	10.13	104	316940	5.008	ug/L	97
56) Isopropylbenzene	10.50	105	489792	5.043	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	102420	5.161	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	76813	5.188	ug/L	96
61) Bromoform	10.31	173	49225	4.752	ug/L	96
62) 1,3-Dichlorobenzene	11.76	146	212582	4.868	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	211688	4.834	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	202578	4.928	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	19923	5.229	ug/L	93
67) 1,3,5-Trichlorobenzene	13.25	180	159407	4.978	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	141679	4.821	ug/L	99
69) Naphthalene	14.12	128	286054	4.806	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	126009	4.812	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.253 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

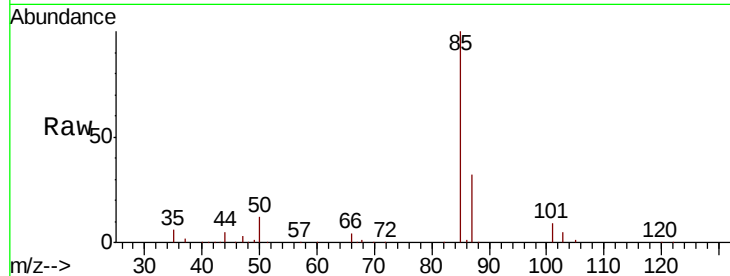
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 124148

Ion Ratio Lower Upper

85 100

87 32.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037723.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037723.D (-1) (-)

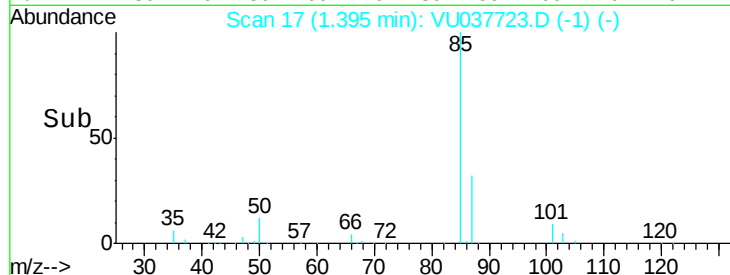
150000

100000

50000

0

Time-->



Abundance Ion 85.00 (84.70 to 85.70): VU037723.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037723.D (-1) (-)

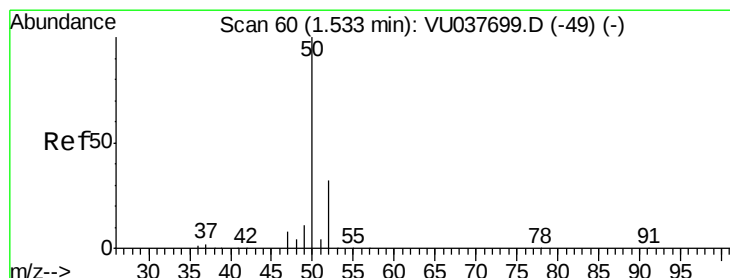
150000

100000

50000

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Time-->



#3

Chloromethane

Concen: 4.551 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037723.D

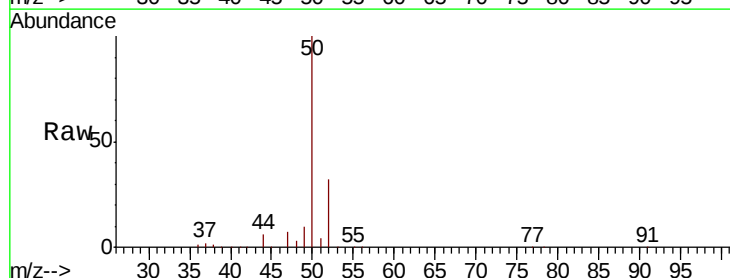
Acq: 15 Apr 2020 10:00

Tgt Ion: 50 Resp: 132983

Ion Ratio Lower Upper

50 100

52 32.0 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU037723.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU037723.D (-1) (-)

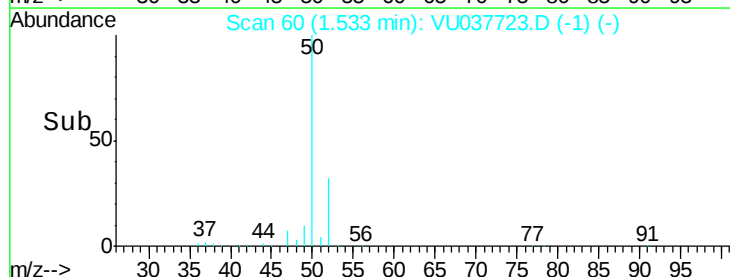
150000

100000

50000

0

Time-->



Abundance Ion 50.05 (49.75 to 50.75): VU037723.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU037723.D (-1) (-)

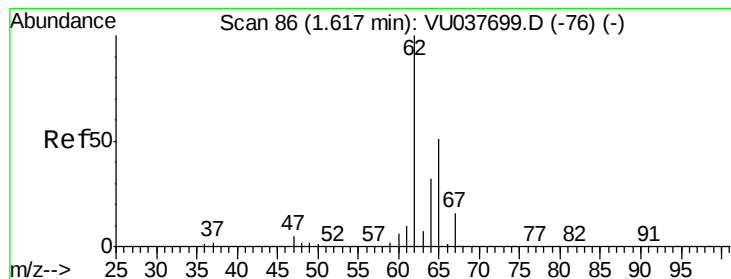
150000

100000

50000

0

Time-->



#5

Vinyl chloride

Concen: 4.951 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

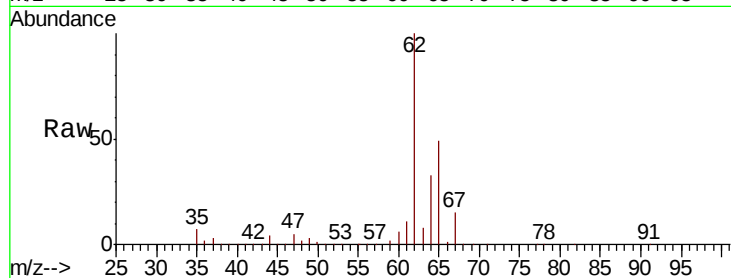
ClientSampled :

Tot Ion: 62 Resp: 142140

Ion Ratio Lower Upper

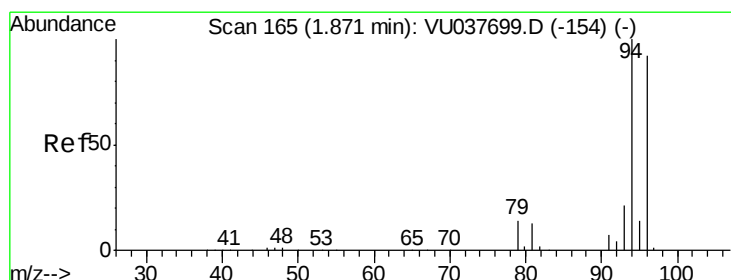
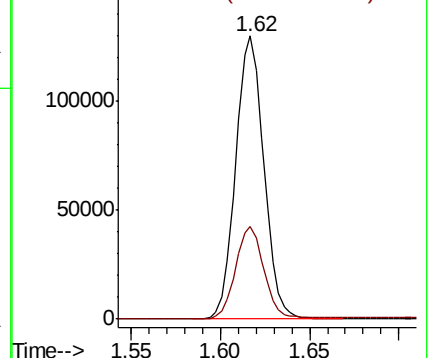
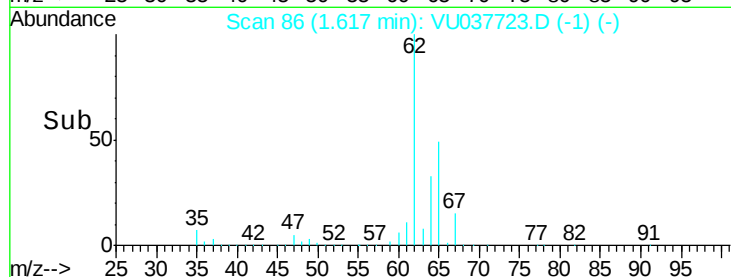
62 100

64 32.6 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037723.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU037723.D (-1) (-)



#6

Bromomethane

Concen: 3.498 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037723.D

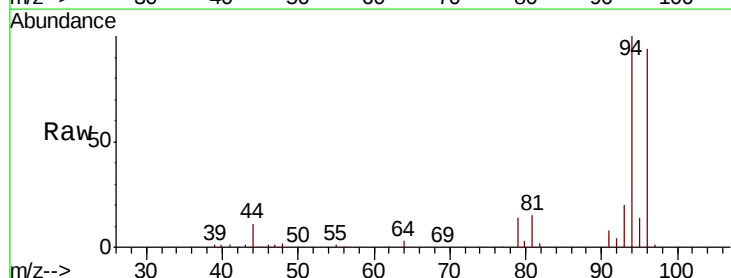
Acq: 15 Apr 2020 10:00

Tgt Ion: 94 Resp: 57647

Ion Ratio Lower Upper

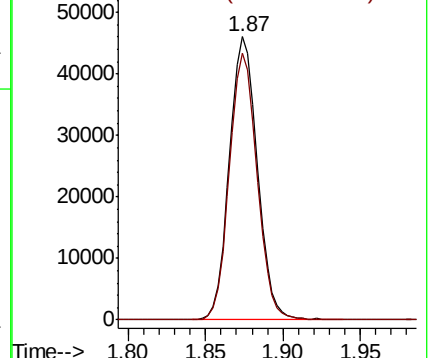
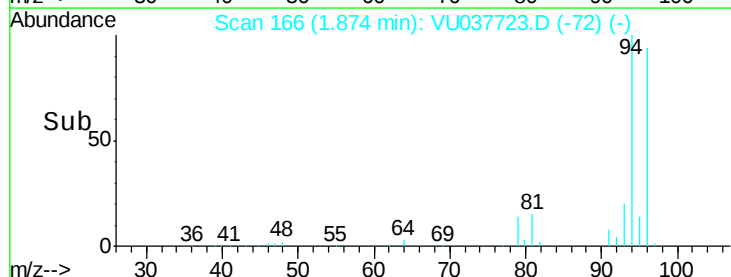
94 100

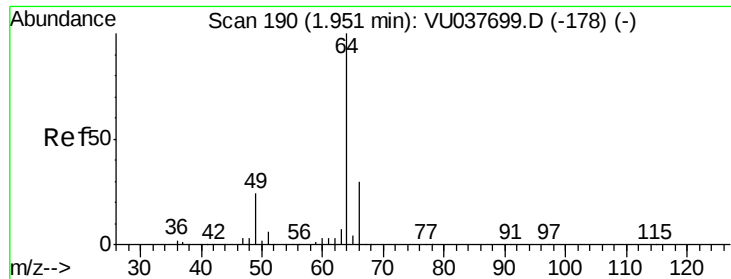
96 94.1 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037723.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU037723.D (-72) (-)

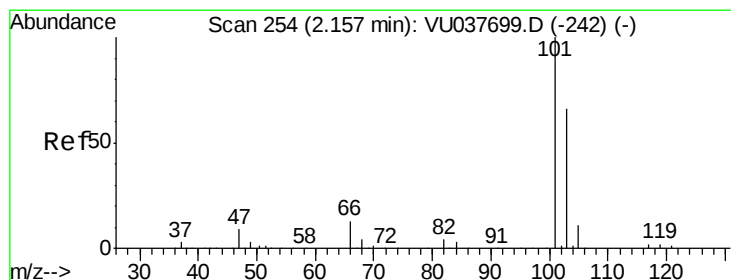
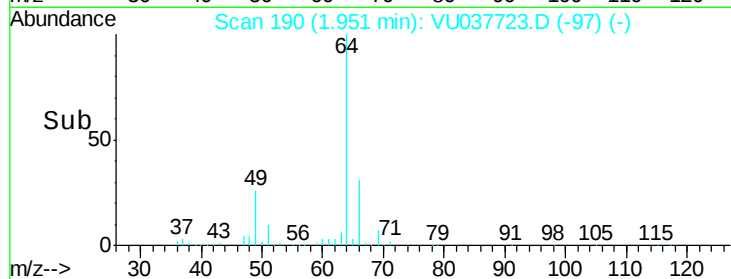
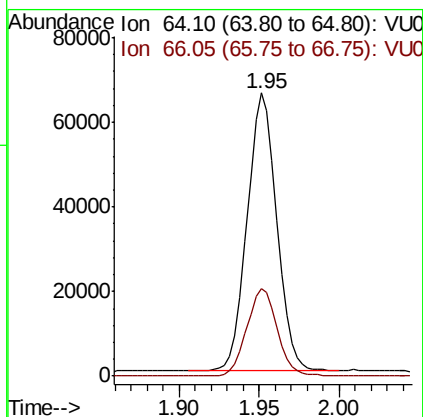
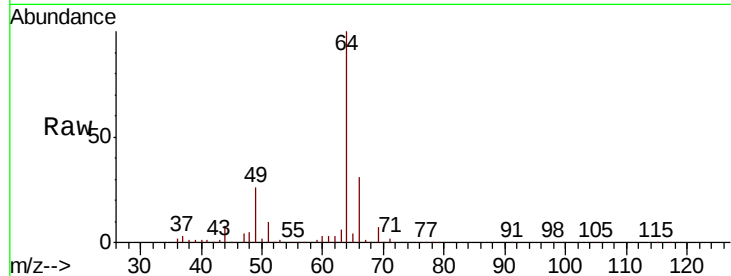




#8
Chloroethane
Concen: 4.915 ug/L
RT: 1.95 min Scan# 190
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

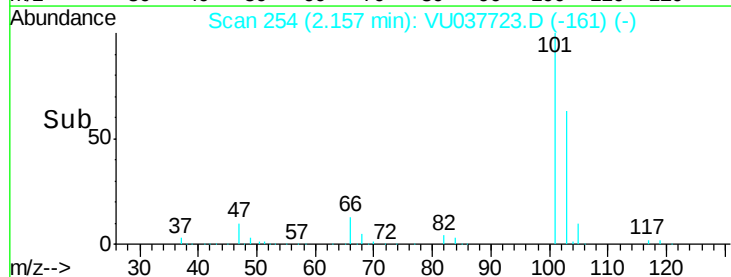
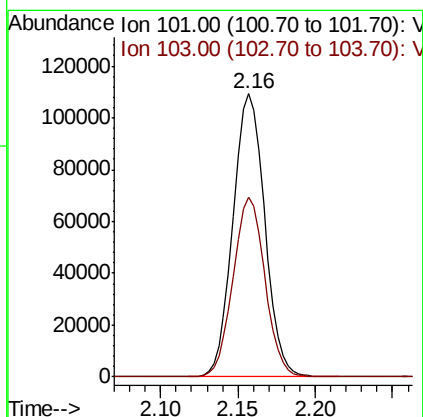
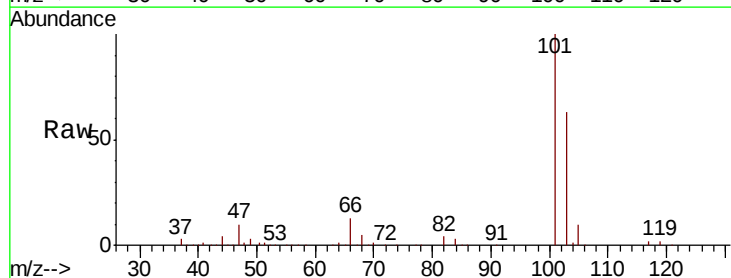
Instrument :
MSVOA_U
ClientSampleId :

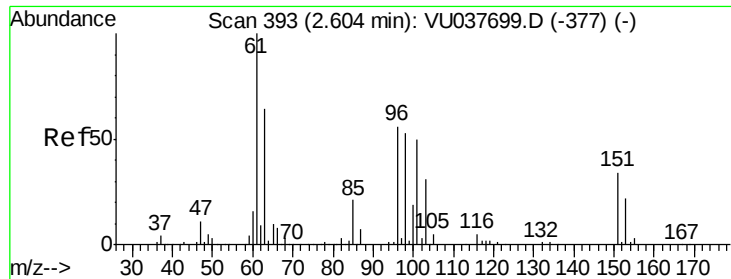
Tot Ion: 64 Resp: 82854
Ion Ratio Lower Upper
64 100
66 31.1 22.3 41.5



#9
Trichlorofluoromethane
Concen: 5.042 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion:101 Resp: 155323
Ion Ratio Lower Upper
101 100
103 63.5 51.0 76.6





#10

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

Concen: 5.070 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

ClientSampled :

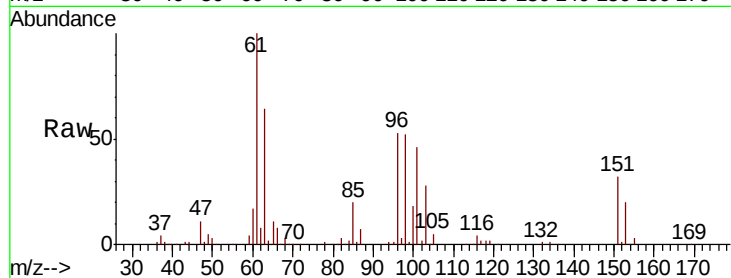
Tot Ion:101 Resp: 90927

Ion Ratio Lower Upper

101 100

85 45.2 34.5 51.7

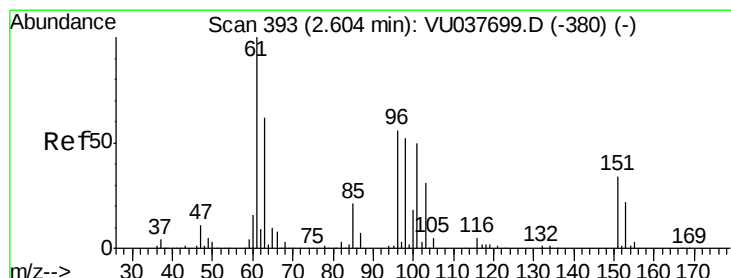
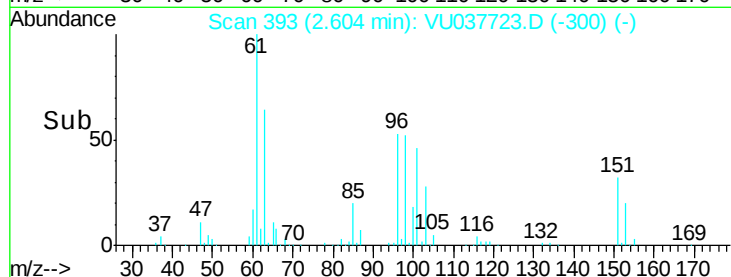
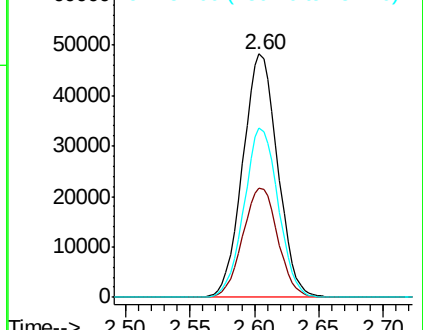
151 68.5 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.757 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

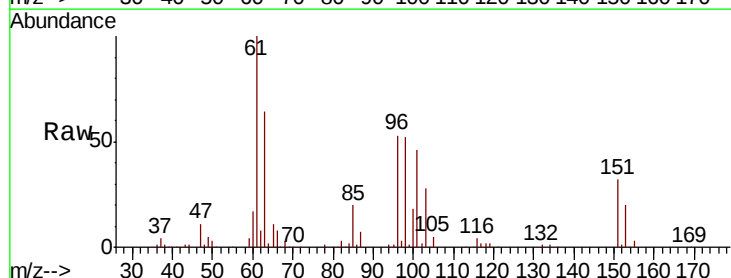
Tgt Ion: 96 Resp: 89427

Ion Ratio Lower Upper

96 100

61 190.1 127.7 237.3

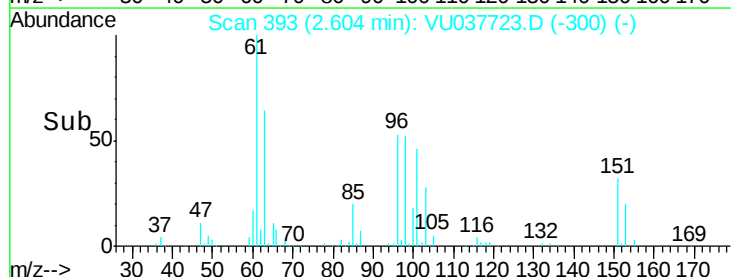
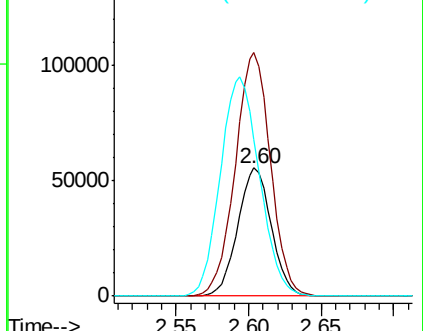
63 121.8 85.0 157.8

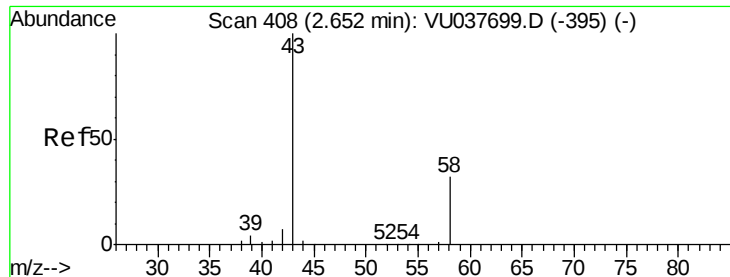


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

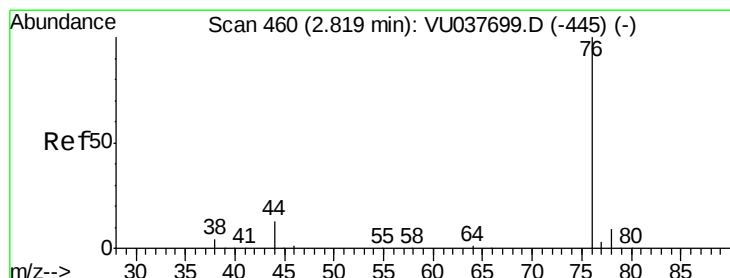
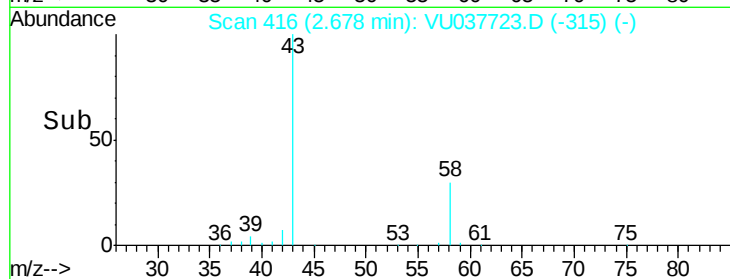
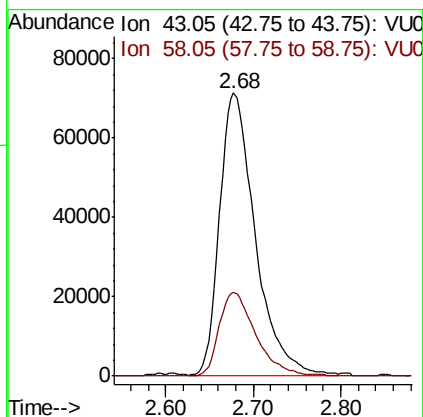
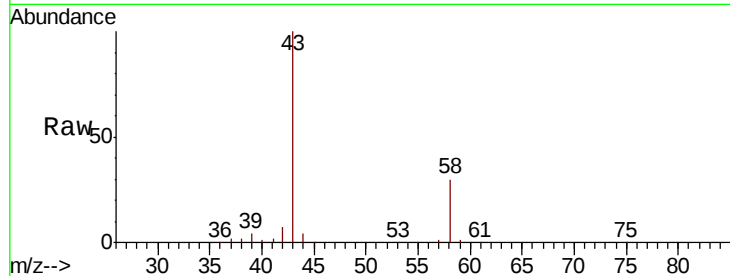




#13
Acetone
Concen: 53.675 ug/L
RT: 2.68 min Scan# 416
Delta R.T. 0.03 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

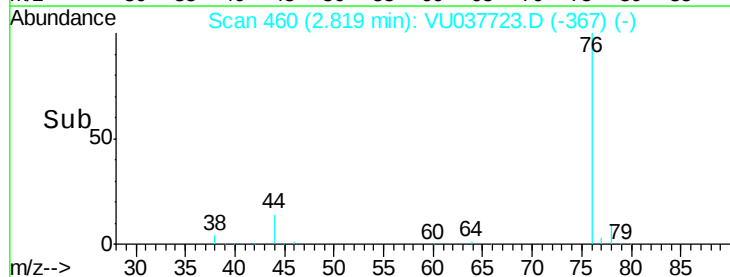
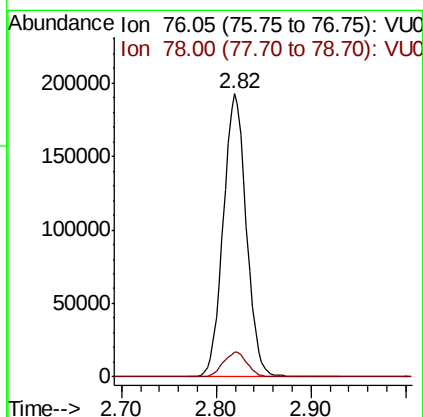
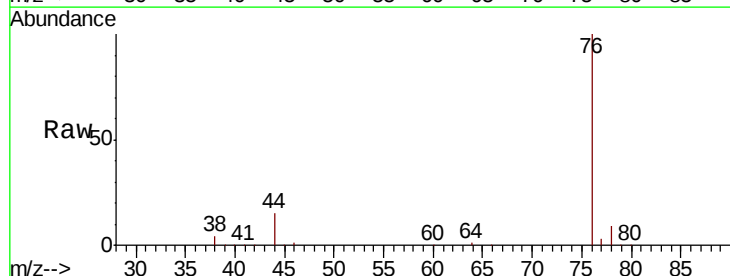
Instrument :
MSVOA_U
ClientSampleId :

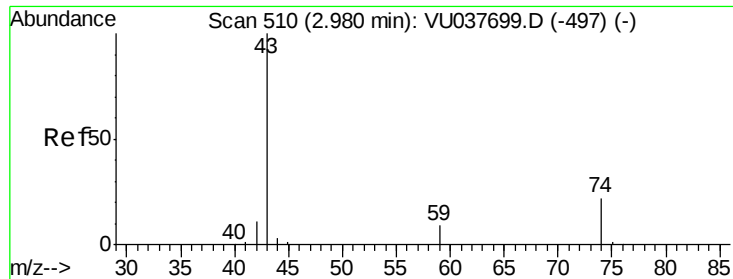
Tot Ion: 43 Resp: 200370
Ion Ratio Lower Upper
43 100
58 30.8 0.0 64.8



#14
Carbon disulfide
Concen: 4.747 ug/L
RT: 2.82 min Scan# 460
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion: 76 Resp: 325839
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.0

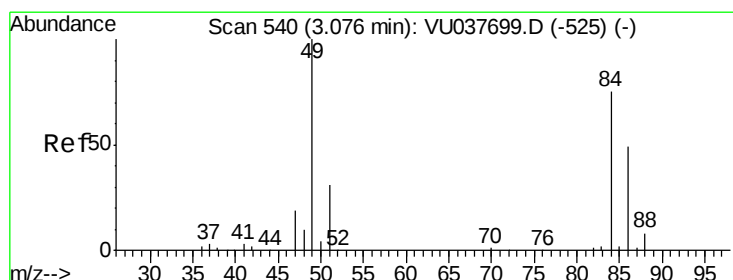
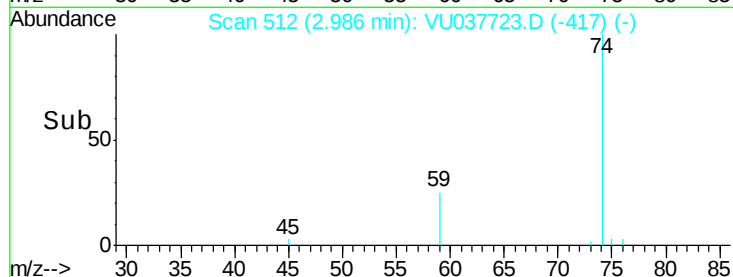
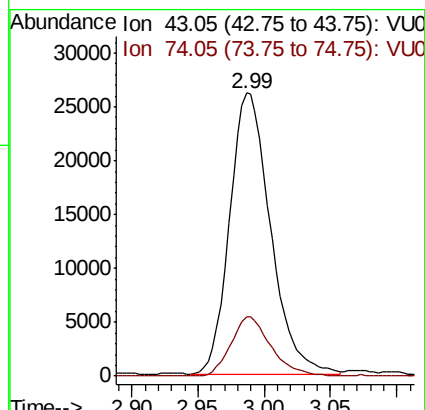
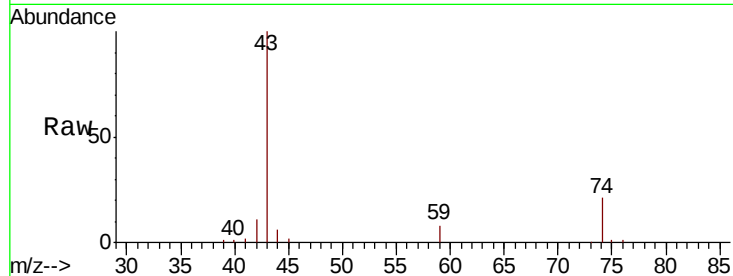




#15
Methvl Acetate
Concen: 5.379 ug/L
RT: 2.99 min Scan# 512
Delta R.T. 0.01 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

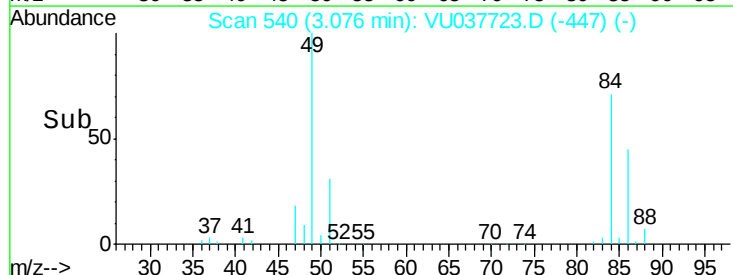
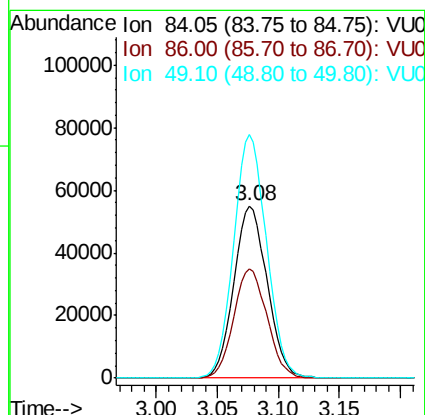
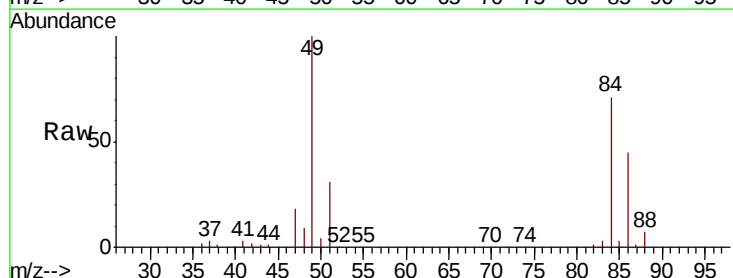
Instrument :
MSVOA_U
ClientSampleId :

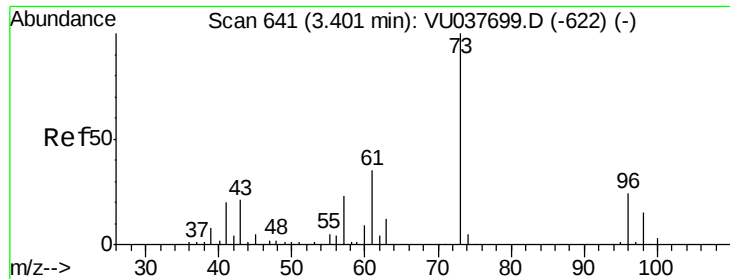
Tot Ion: 43 Resp: 55830
Ion Ratio Lower Upper
43 100
74 20.6 17.2 25.8



#16
Methylene chloride
Concen: 4.932 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion: 84 Resp: 104538
Ion Ratio Lower Upper
84 100
86 63.2 44.2 82.0
49 141.1 92.4 171.6

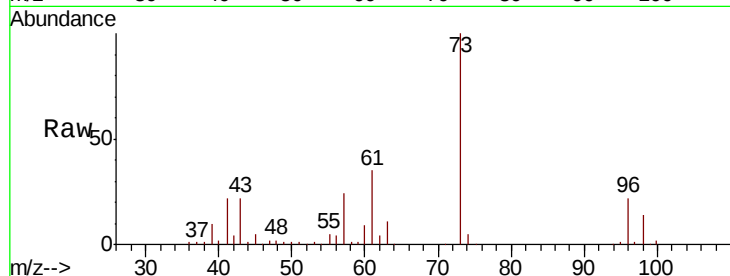




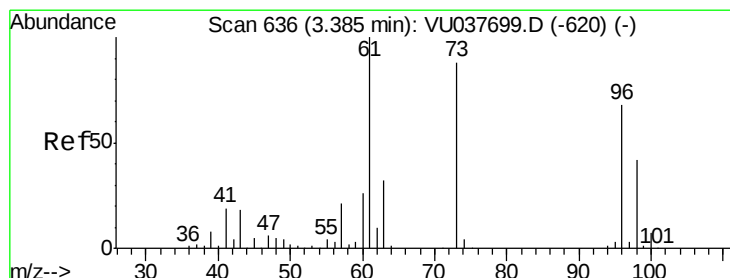
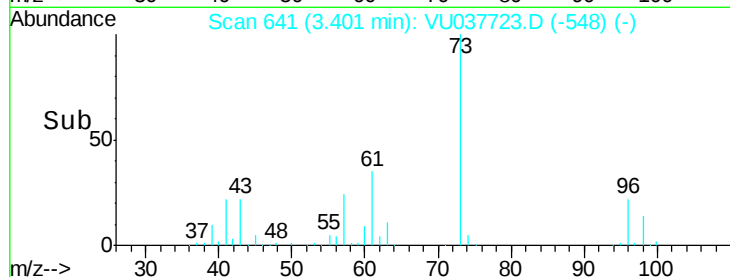
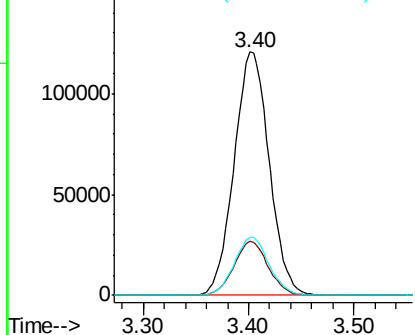
#17
Methvl tert-butvl Ether
Concen: 5.115 ug/L
RT: 3.40 min Scan# 641
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 278442
Ion Ratio Lower Upper
73 100
43 21.8 16.4 24.6
57 23.7 18.4 27.6

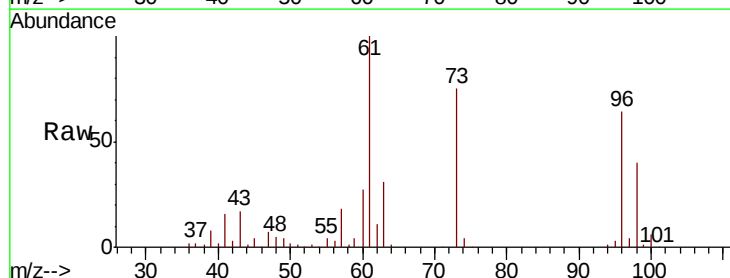


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

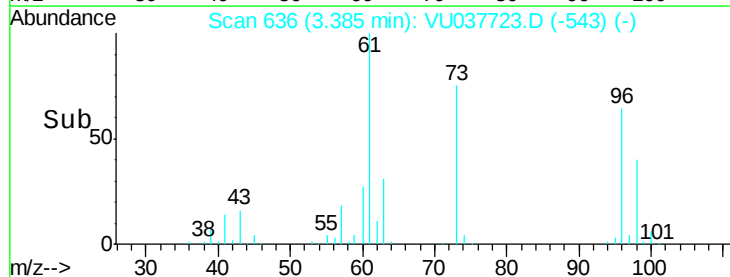
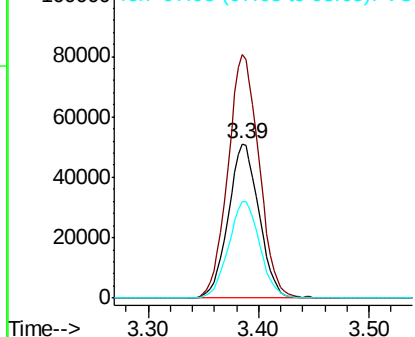


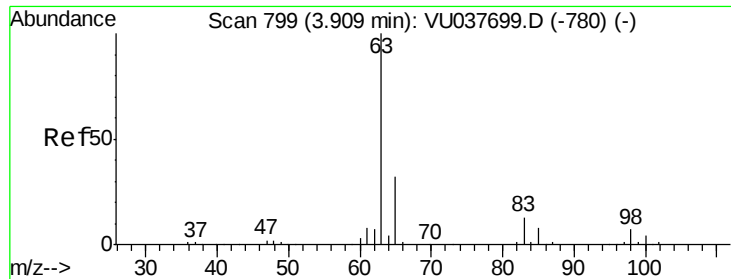
#18
trans-1,2-Dichloroethene
Concen: 4.833 ug/L
RT: 3.39 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion: 96 Resp: 98515
Ion Ratio Lower Upper
96 100
61 157.5 106.7 198.3
98 62.4 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

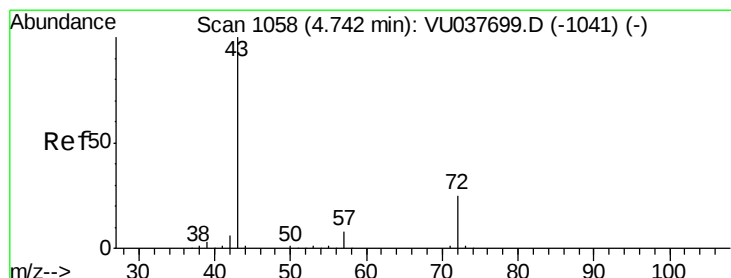
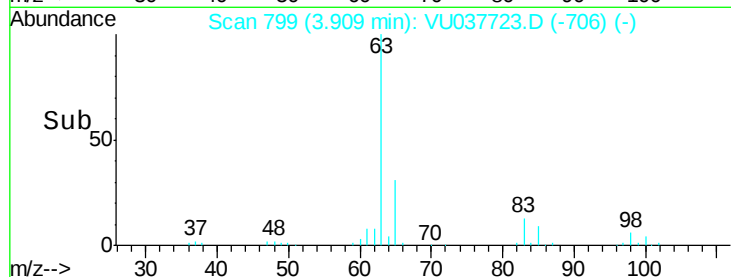
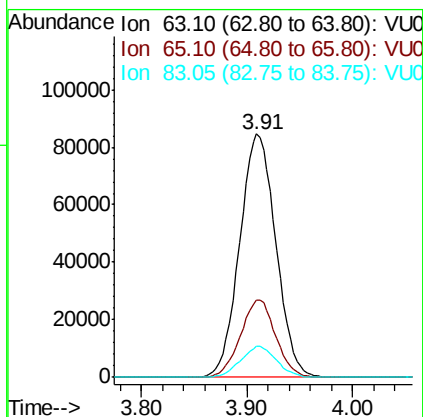
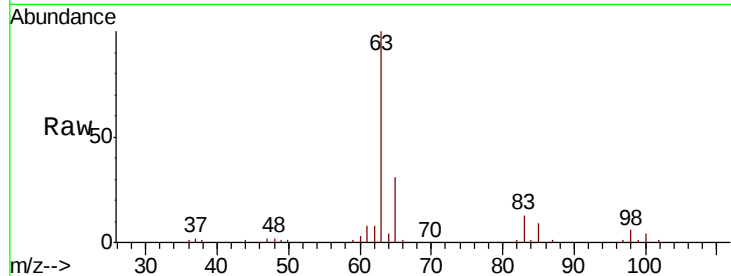




#19
 1,1-Dichloroethane
 Concen: 5.120 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

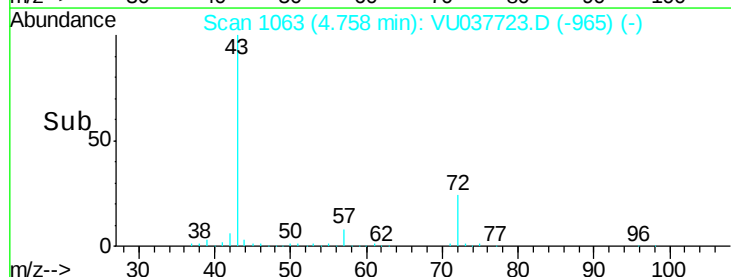
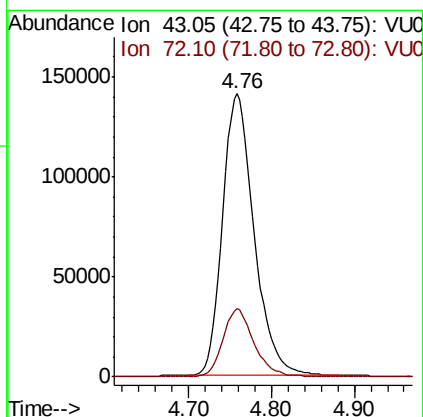
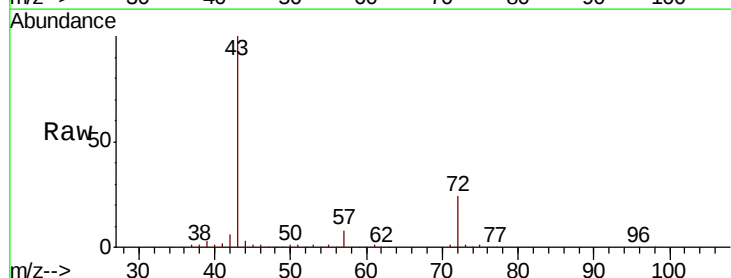
Instrument :
 MSVOA_U
 ClientSampled :

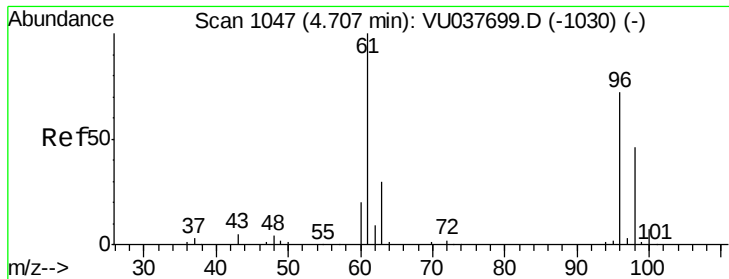
Tot Ion: 63 Resp: 201856
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.6 40.2
 83 12.6 8.6 16.0



#21
 2-Butanone
 Concen: 54.774 ug/L
 RT: 4.76 min Scan# 1063
 Delta R.T. 0.02 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion: 43 Resp: 371504
 Ion Ratio Lower Upper
 43 100
 72 24.1 12.6 37.6





#22

cis-1,2-Dichloroethene

Concen: 4.924 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :
MSVOA_U
ClientSampleId :

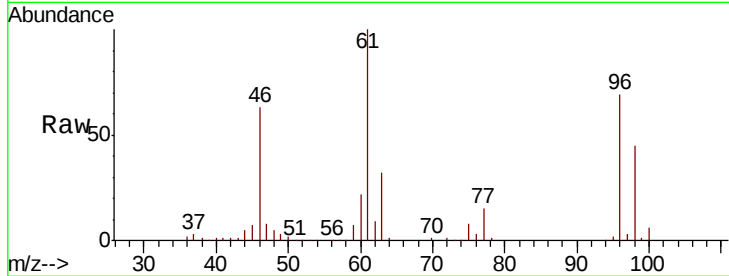
Tot Ion: 96 Resp: 108439

Ion Ratio Lower Upper

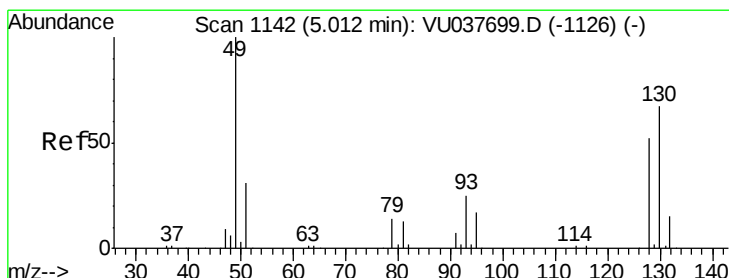
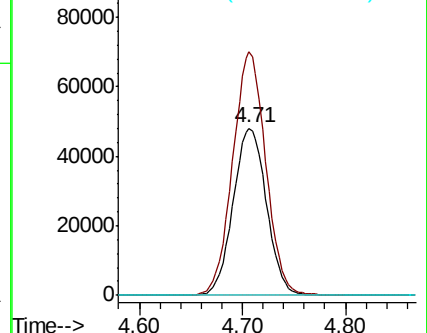
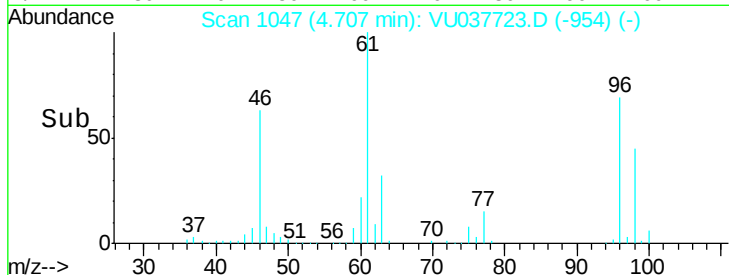
96 100

61 145.7 97.0 180.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037723.D (-954) (-)



#23

Bromochloromethane

Concen: 4.884 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Tgt Ion: 128 Resp: 45593

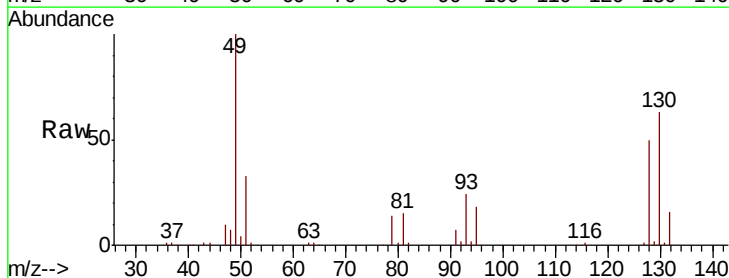
Ion Ratio Lower Upper

128 100

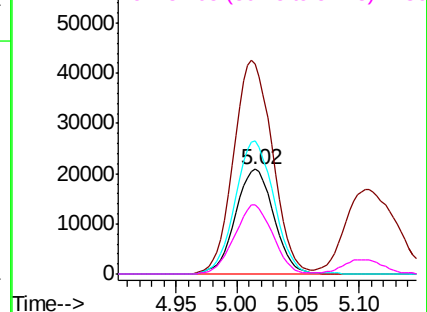
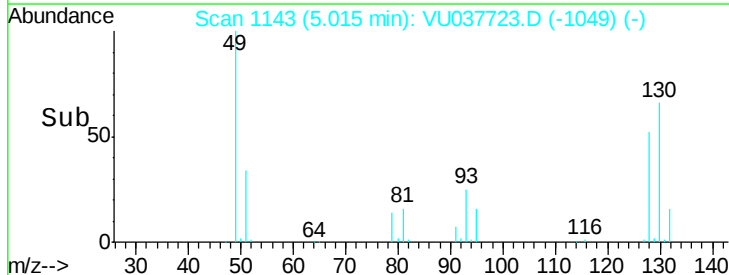
49 200.3 138.6 257.4

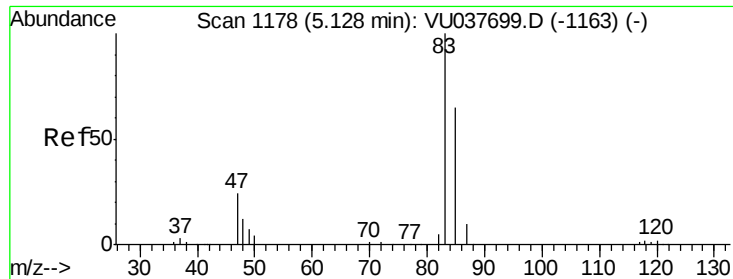
130 126.6 91.3 169.5

51 66.1 49.3 73.9



Abundance Ion 127.90 (127.60 to 128.60): VU037723.D (-1049) (-)

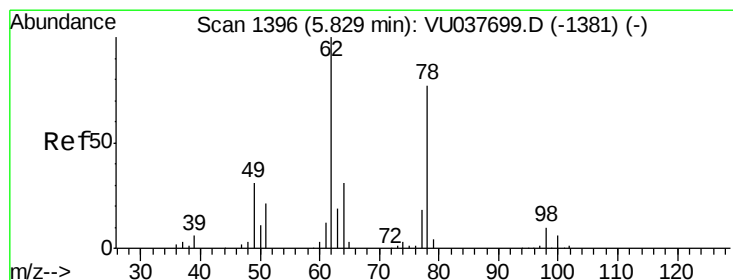
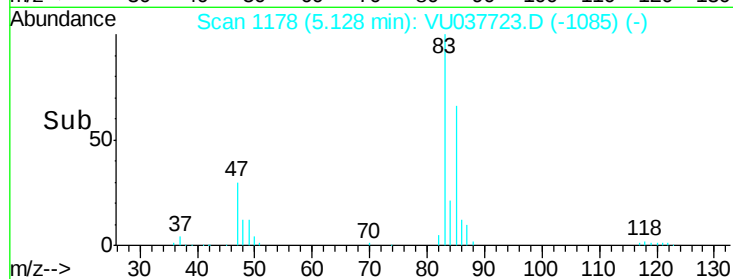
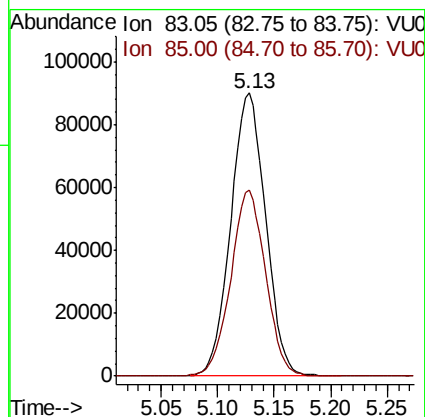
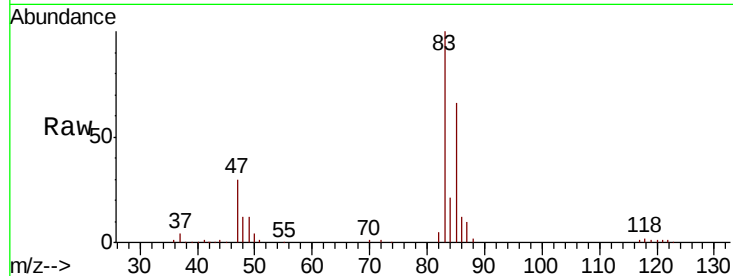




#25
Chloroform
Concen: 5.172 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

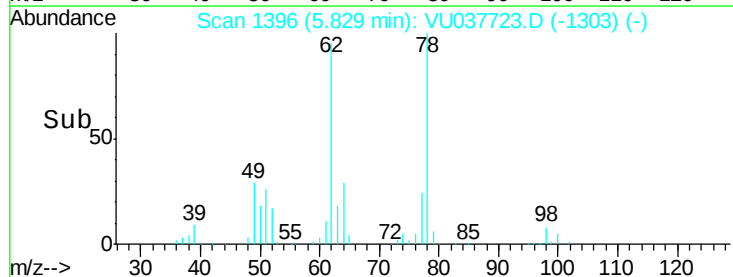
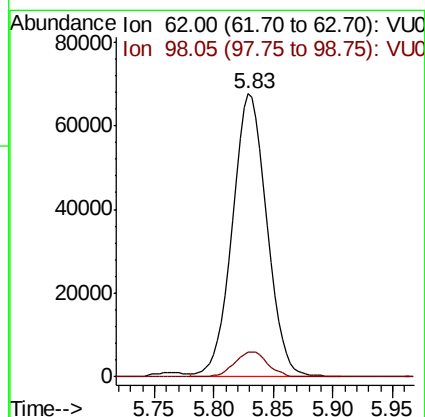
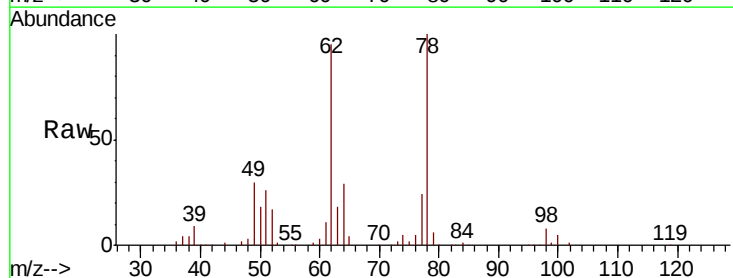
Instrument :
MSVOA_U
ClientSampled :

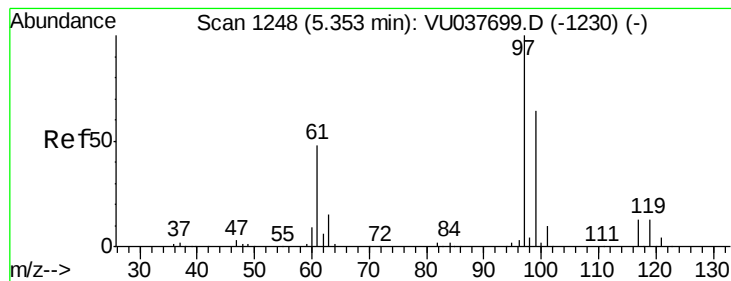
Tot Ion: 83 Resp: 193680
Ion Ratio Lower Upper
83 100
85 65.6 44.9 83.3



#27
1,2-Dichloroethane
Concen: 5.343 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion: 62 Resp: 135261
Ion Ratio Lower Upper
62 100
98 8.7 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 5.225 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

ClientSampleId :

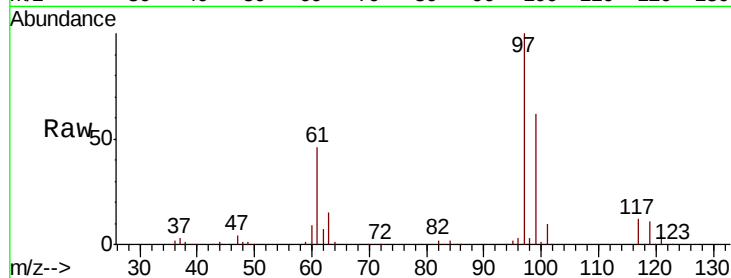
Tot Ion: 97 Resp: 163664

Ion Ratio Lower Upper

97 100

99 63.0 52.0 78.0

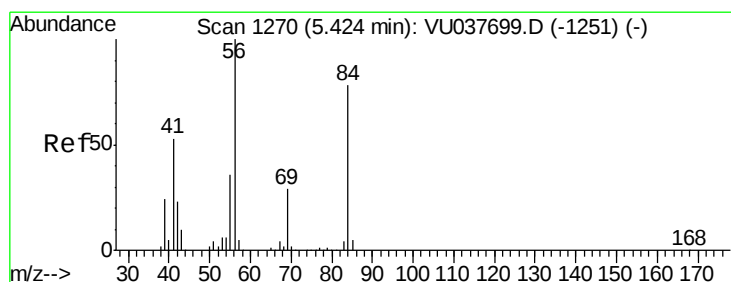
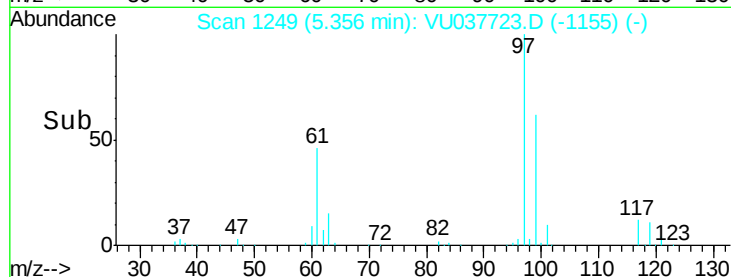
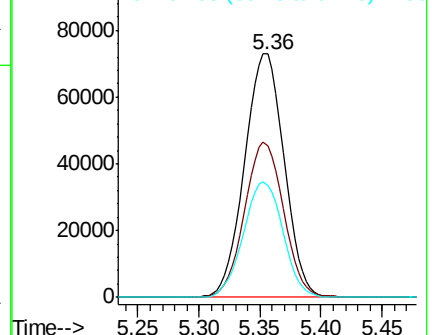
61 47.5 37.8 56.8



Abundance Ion 96.95 (96.65 to 97.65): VU037723.D (-1155) (-)

Ion 99.05 (98.75 to 99.75): VU037723.D (-1155) (-)

Ion 61.05 (60.75 to 61.75): VU037723.D (-1155) (-)



#30

Cyclohexane

Concen: 5.244 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

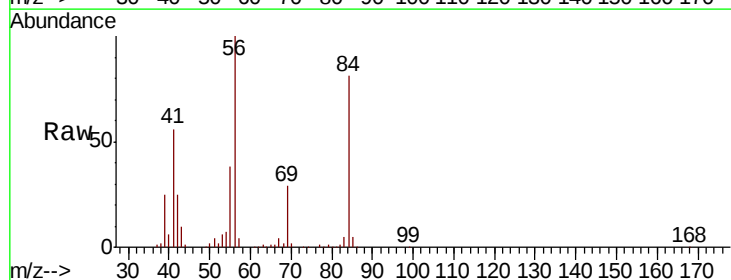
Tgt Ion: 56 Resp: 203312

Ion Ratio Lower Upper

56 100

69 28.5 23.9 35.9

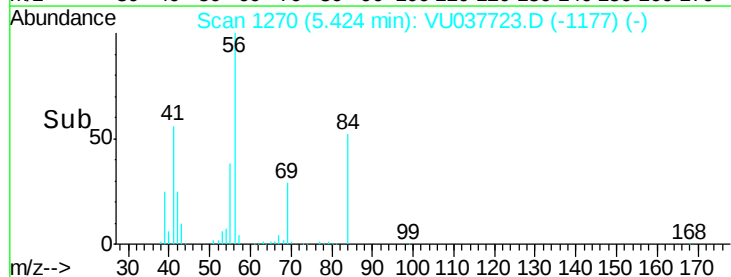
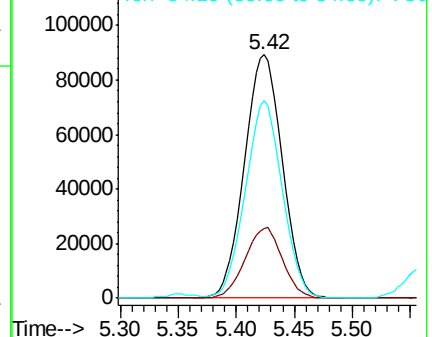
84 79.0 65.6 98.4

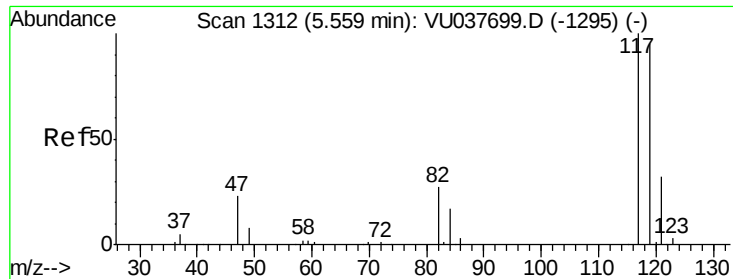


Abundance Ion 56.10 (55.80 to 56.80): VU037723.D (-1177) (-)

Ion 69.15 (68.85 to 69.85): VU037723.D (-1177) (-)

Ion 84.15 (83.85 to 84.85): VU037723.D (-1177) (-)

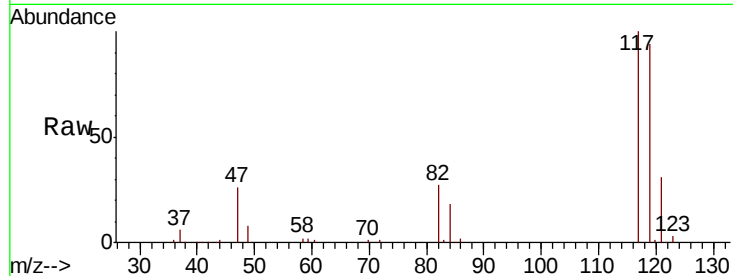




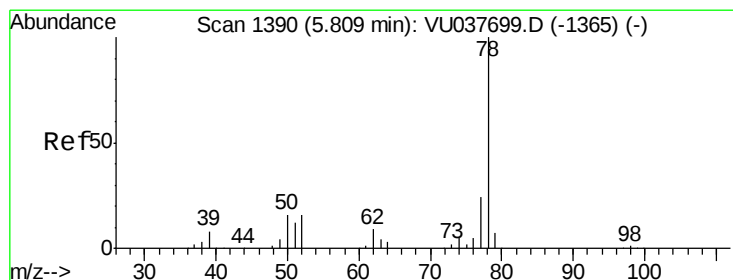
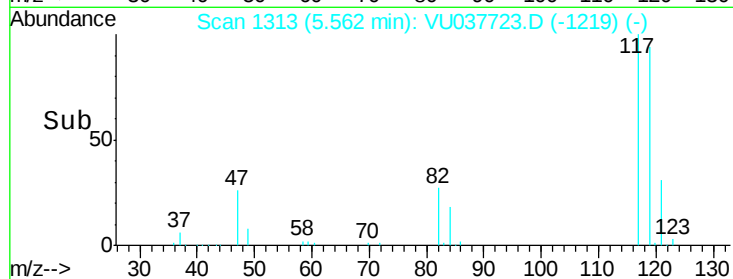
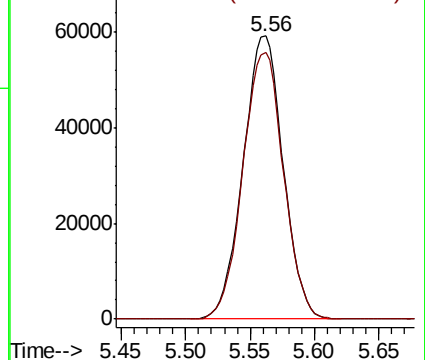
#31
Carbon tetrachloride
Concen: 5.127 ug/L
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 127962
Ion Ratio Lower Upper
117 100
119 95.8 77.4 116.0

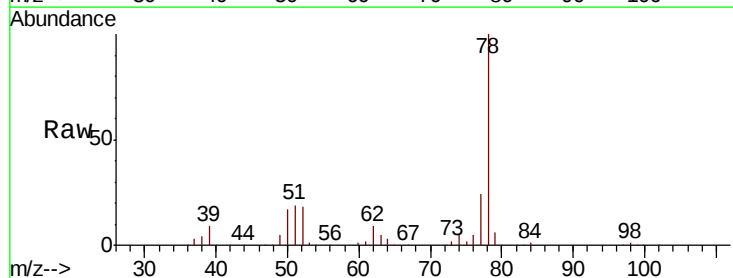


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

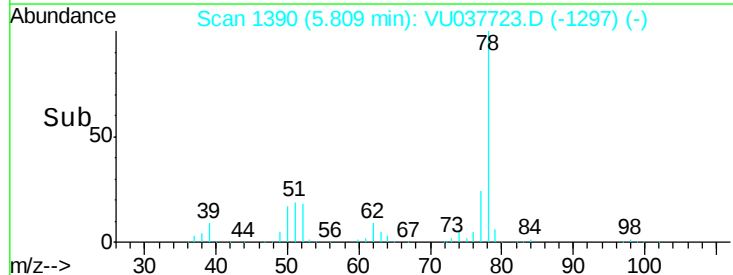
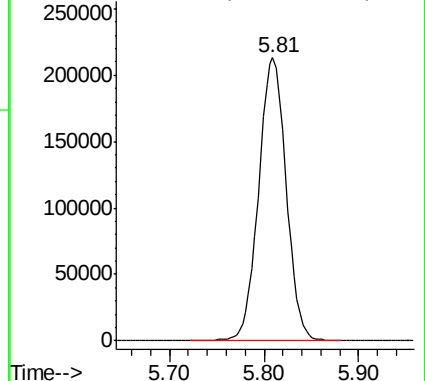


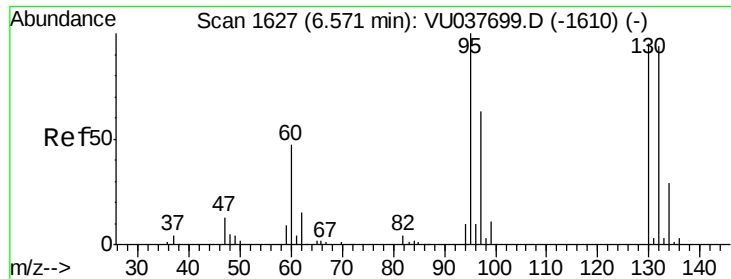
#33
Benzene
Concen: 5.056 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion: 78 Resp: 431207



Abundance Ion 78.10 (77.80 to 78.80): VU0

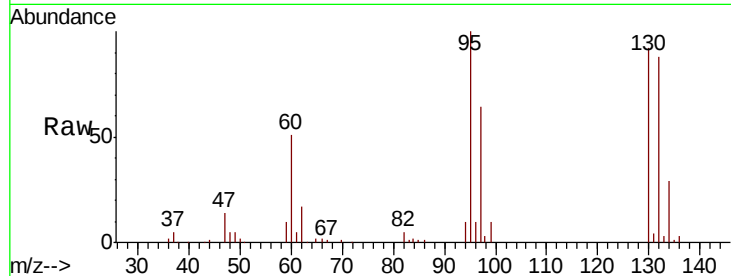




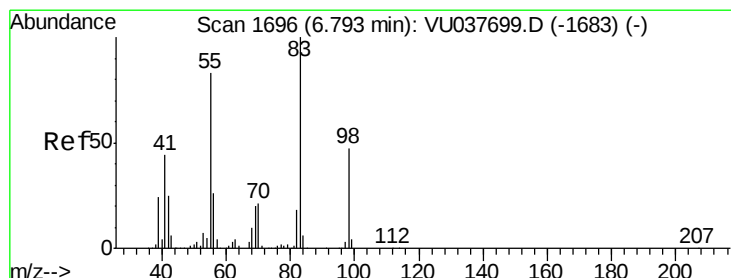
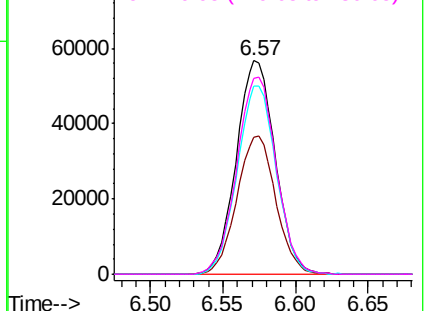
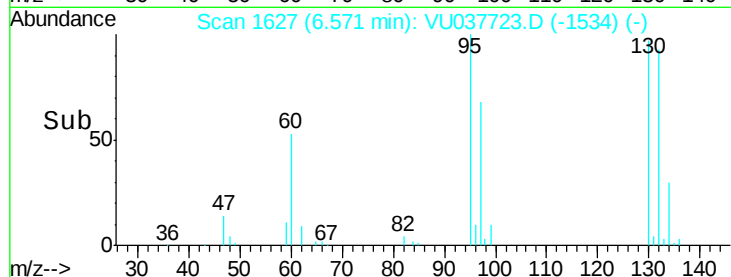
#34
 Trichloroethene
 Concen: 5.046 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 105776
 Ion Ratio Lower Upper
 95 100
 97 64.0 45.4 84.2
 132 88.1 63.7 118.3
 130 91.8 68.7 127.5

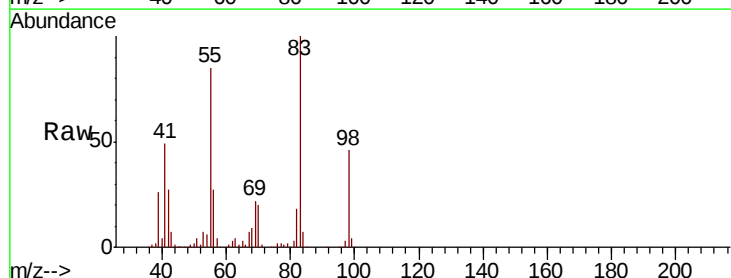


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

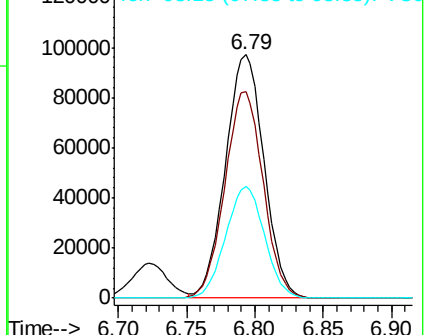
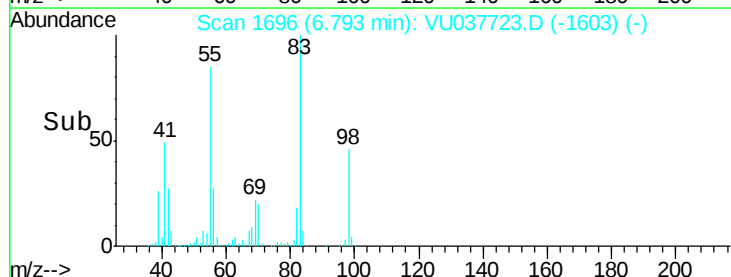


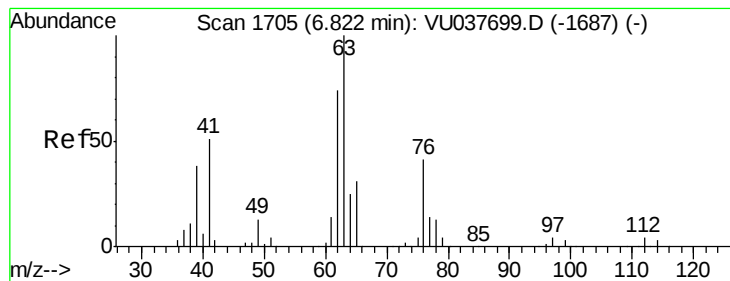
#35
 Methylcyclohexane
 Concen: 5.196 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion: 83 Resp: 190880
 Ion Ratio Lower Upper
 83 100
 55 83.9 65.5 98.3
 98 46.2 38.2 57.4



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.174 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

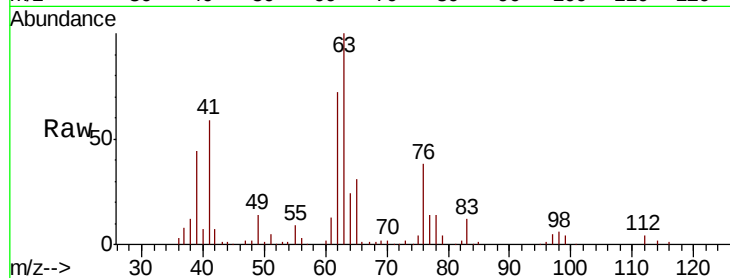
ClientSampleId :

Tot Ion: 63 Resp: 117040

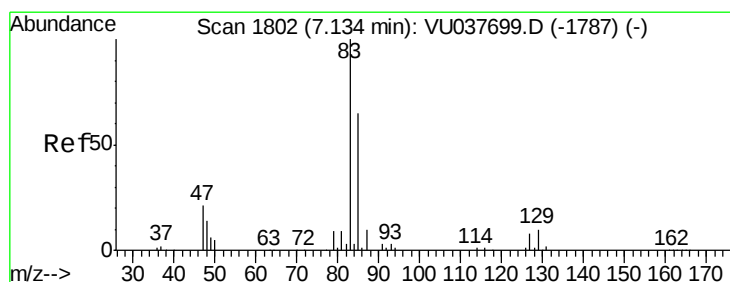
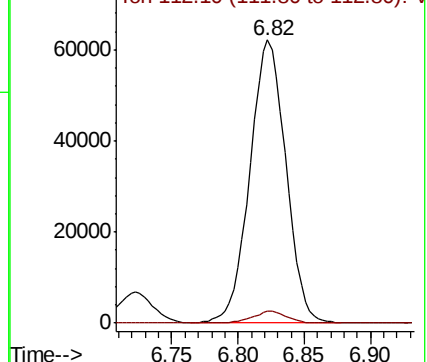
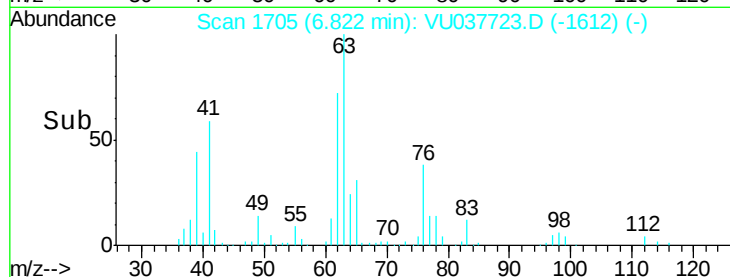
Ion Ratio Lower Upper

63 100

112 3.9 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VU037723.D (-1612) (-)



#38

Bromodichloromethane

Concen: 5.233 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

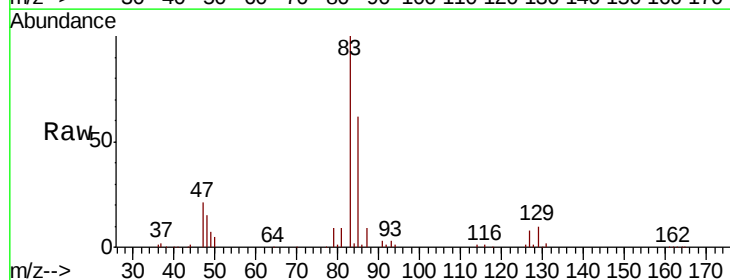
Tgt Ion: 83 Resp: 140756

Ion Ratio Lower Upper

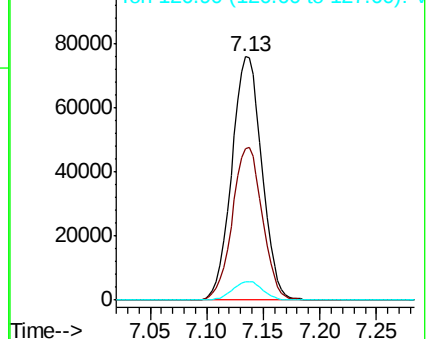
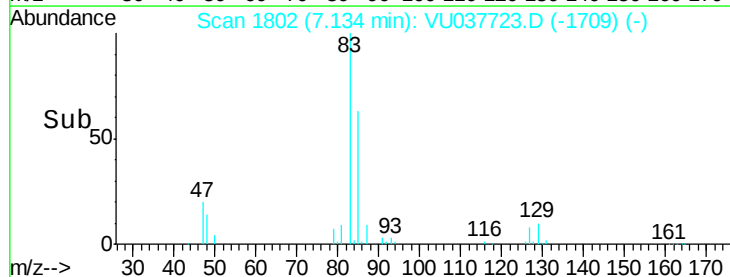
83 100

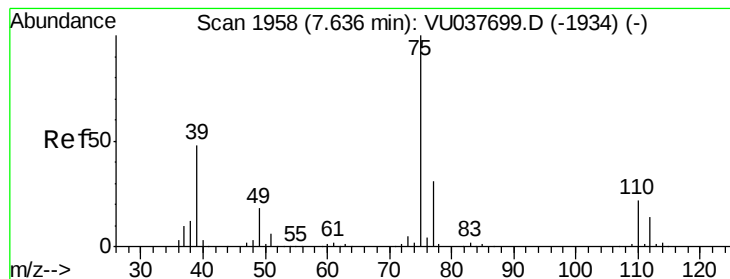
85 62.3 45.1 83.7

127 7.5 6.6 9.8



Abundance Ion 82.95 (82.65 to 83.65): VU037723.D (-1709) (-)



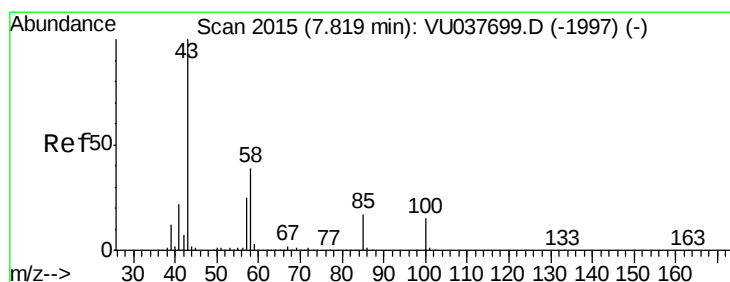
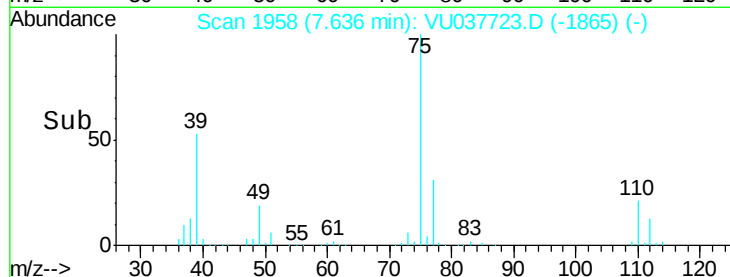
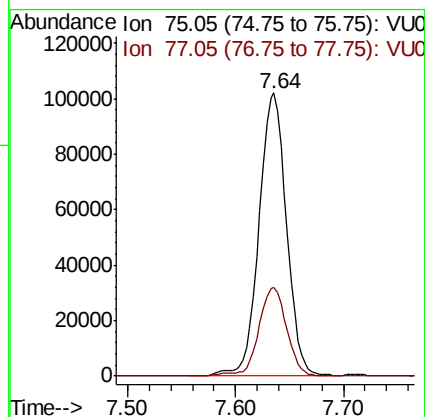
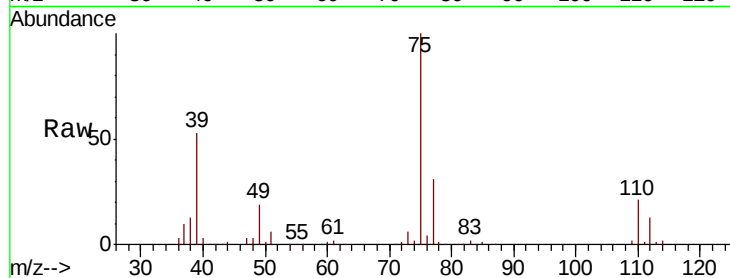


#39

cis-1,3-Dichloropropene
 Concen: 5.104 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Instrument :
 MSVOA_U
 ClientSampled :

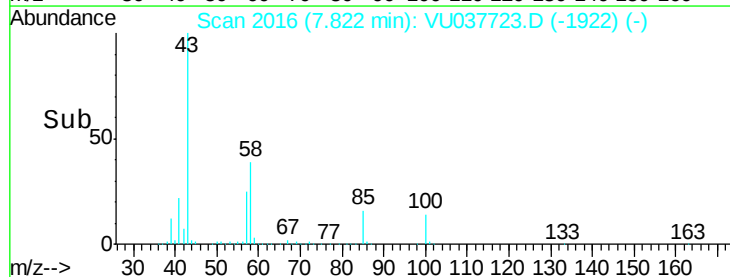
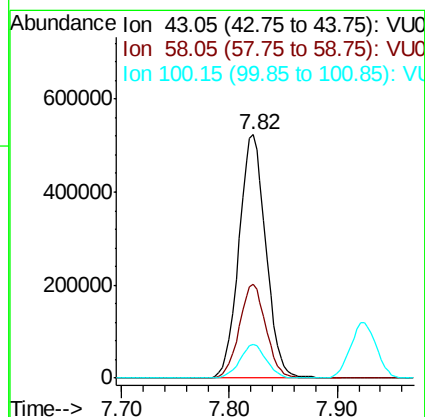
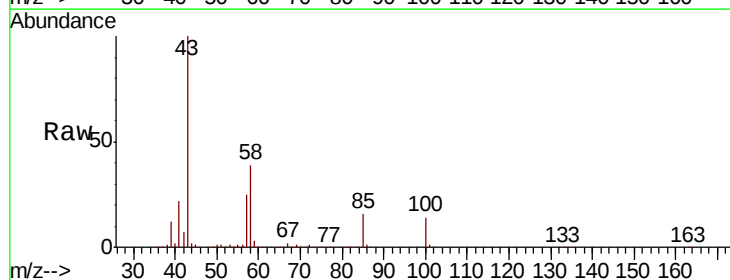
Tot Ion: 75 Resp: 180726
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.2 41.2

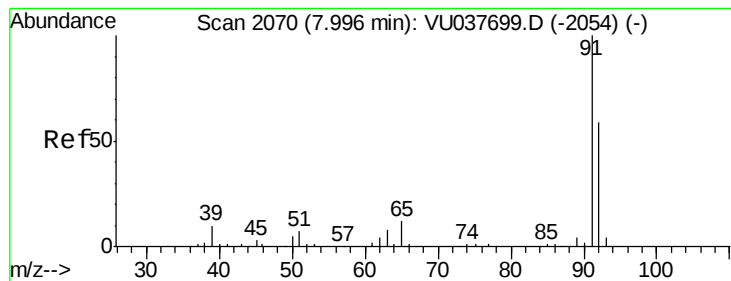


#40

4-Methyl-2-pentanone
 Concen: 54.644 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion: 43 Resp: 908744
 Ion Ratio Lower Upper
 43 100
 58 38.1 31.3 46.9
 100 13.6 11.5 17.3





#42

Toluene

Concen: 5.042 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

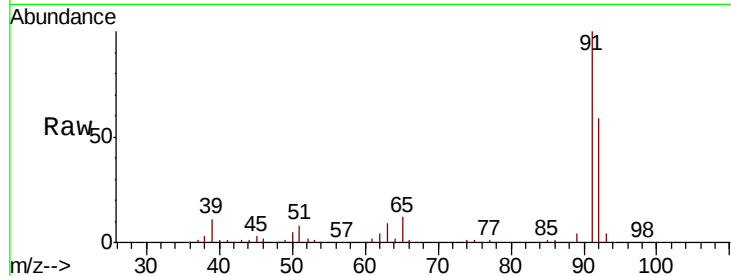
ClientSampleId :

Tot Ion: 91 Resp: 450450

Ion Ratio Lower Upper

91 100

92 59.4 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

8.00

250000

200000

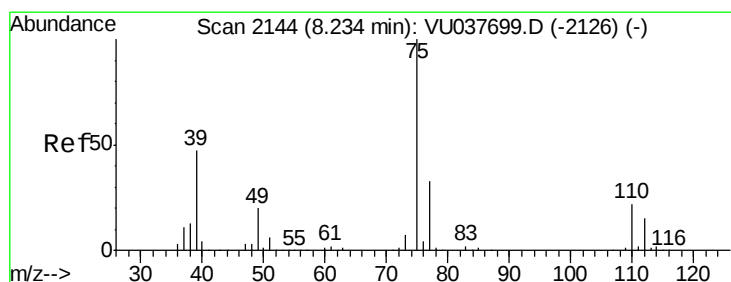
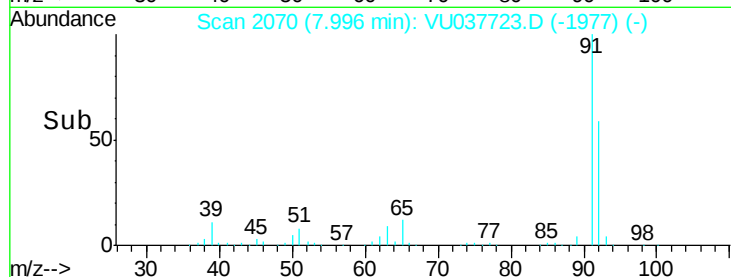
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.176 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037723.D

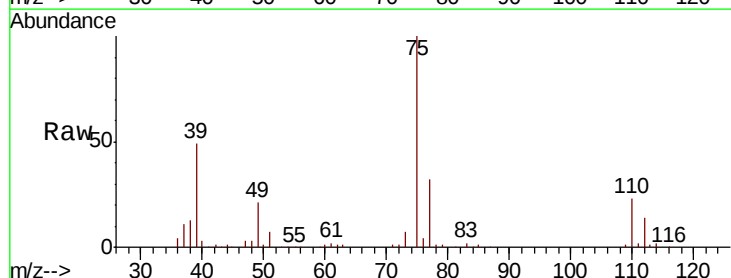
Acq: 15 Apr 2020 10:00

Tgt Ion: 75 Resp: 159118

Ion Ratio Lower Upper

75 100

77 31.9 21.4 39.8



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.23

100000

80000

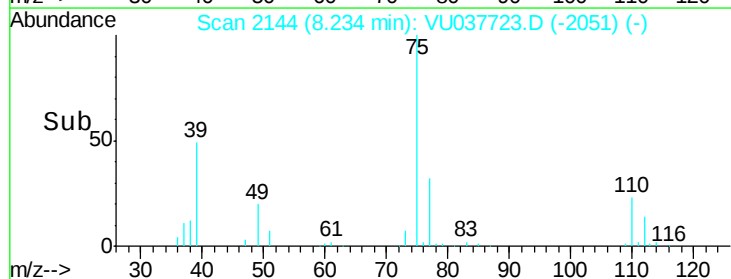
60000

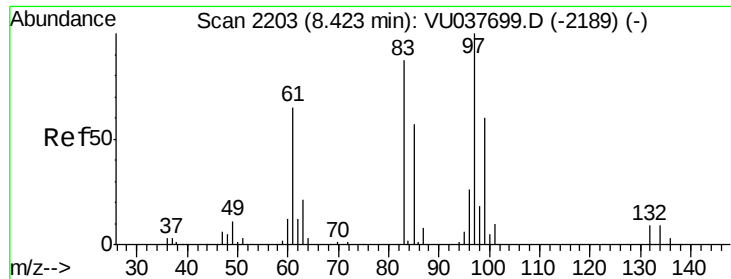
40000

20000

0

Time-->

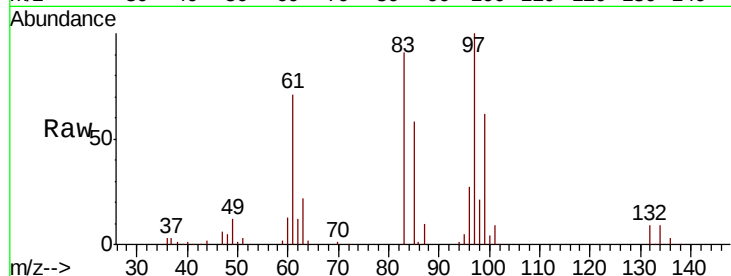




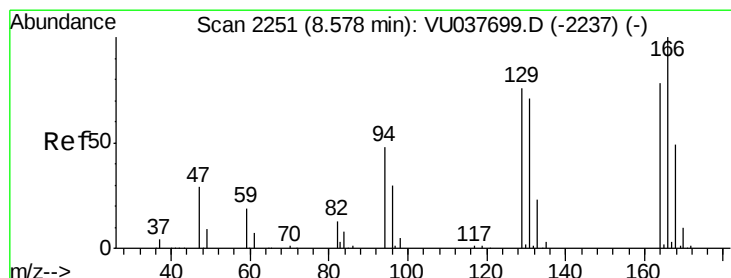
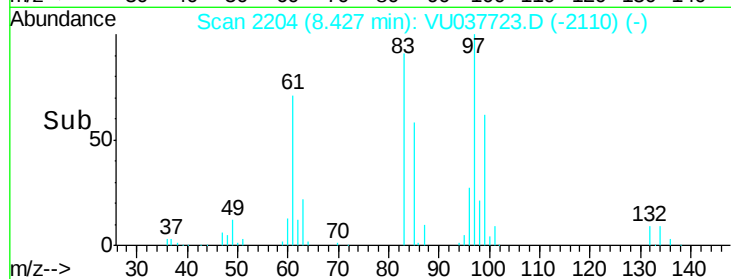
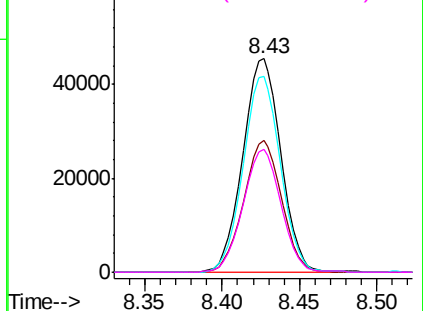
#45
 1,1,2-Trichloroethane
 Concen: 5.118 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	78012
Ion	Ratio	Lower	Upper
97	100		
99	61.7	43.1	80.1
83	91.5	62.4	116.0
85	57.6	39.6	73.6

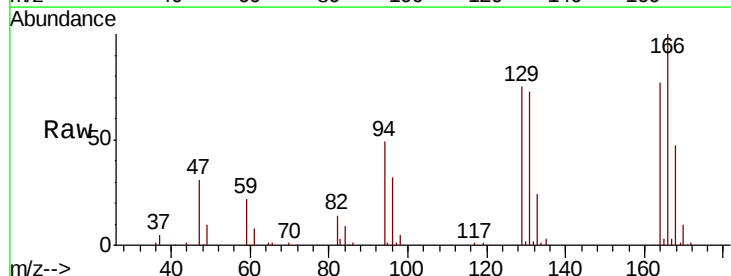


Abundance Ion 96.95 (96.65 to 97.65): VU037723.D (-2110) (-)

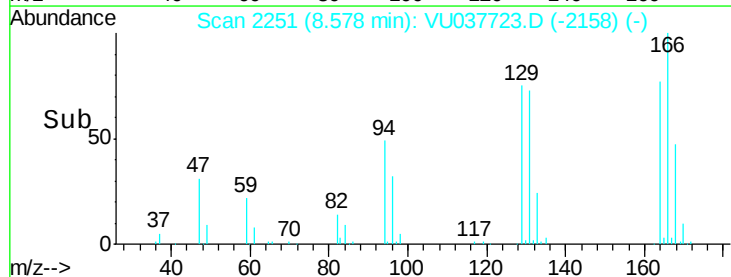
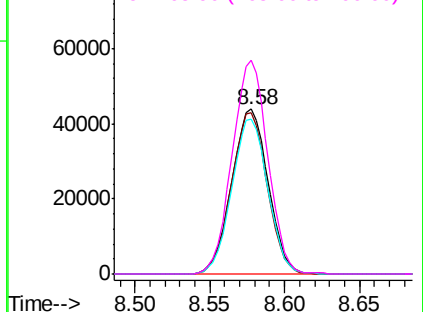


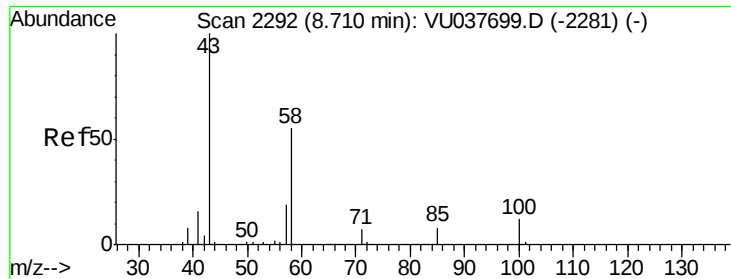
#47
 Tetrachloroethene
 Concen: 4.950 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion:	164	Resp:	74562
Ion	Ratio	Lower	Upper
164	100		
129	97.9	68.1	126.5
131	94.4	65.9	122.5
166	129.8	89.7	166.7



Abundance Ion 163.90 (163.60 to 164.60): VU037723.D (-2158) (-)

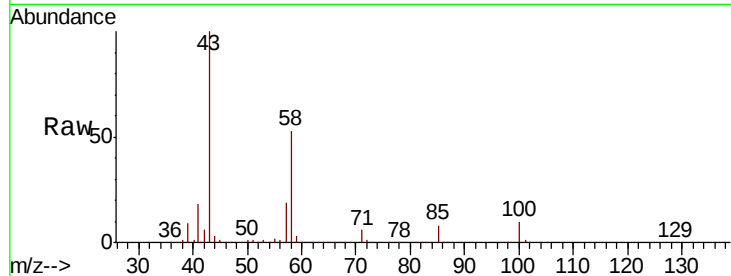




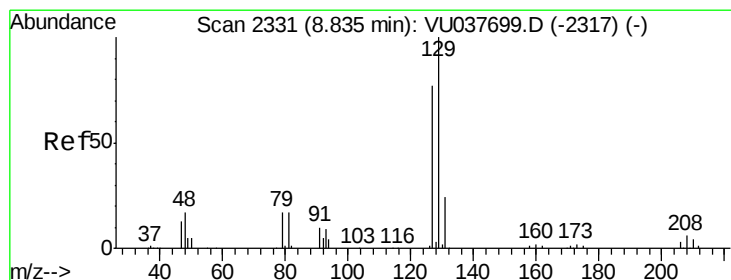
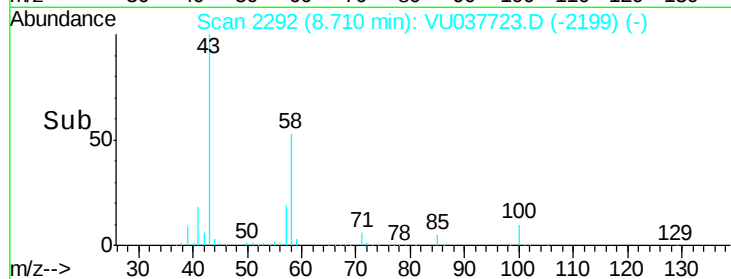
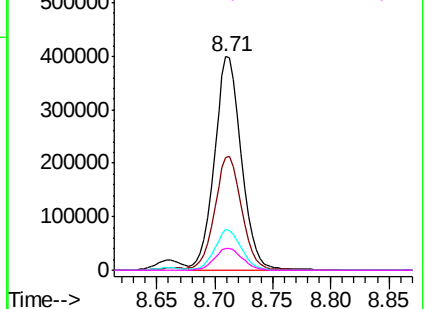
#48
2-Hexanone
Concen: 54.158 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 644857
Ion Ratio Lower Upper
43 100
58 53.6 43.6 65.4
57 19.1 15.4 23.0
100 10.8 9.1 13.7

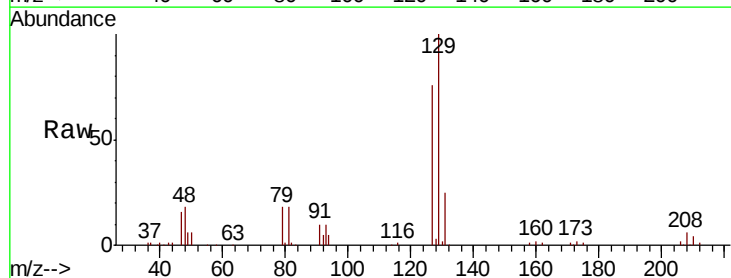


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

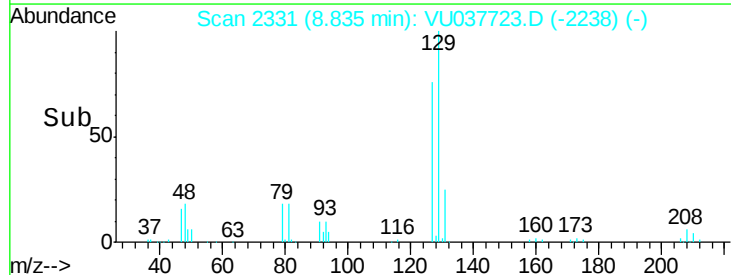
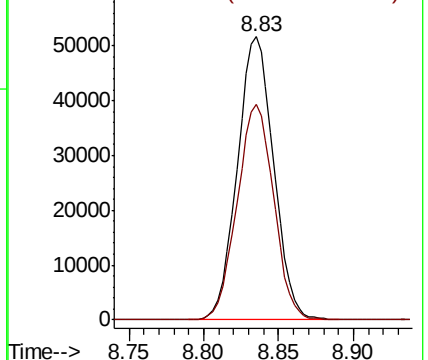


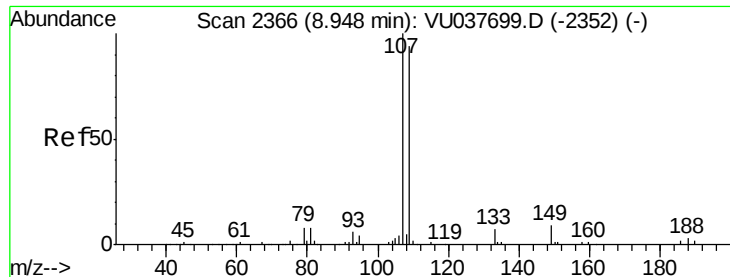
#49
Dibromochloromethane
Concen: 5.014 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion: 129 Resp: 87339
Ion Ratio Lower Upper
129 100
127 76.0 53.3 98.9



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

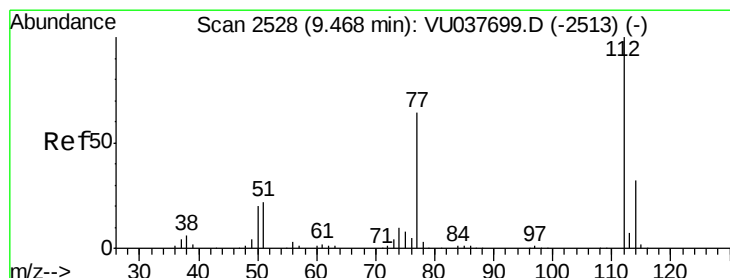
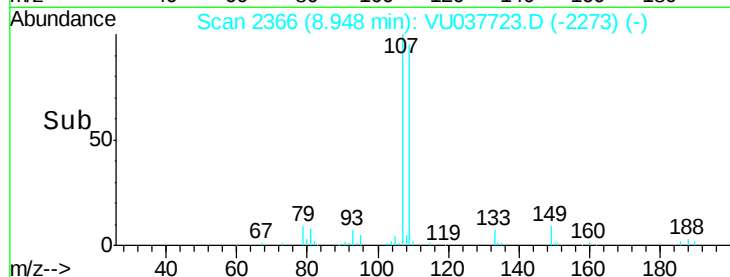
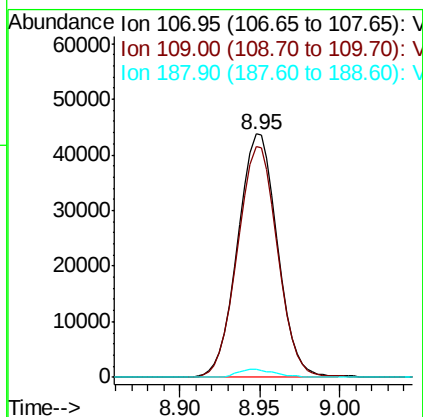
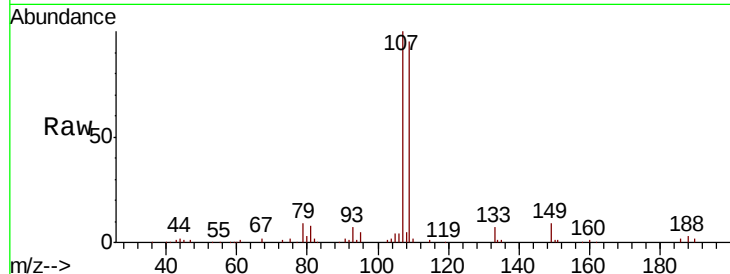




#50
 1,2-Dibromoethane
 Concen: 5.038 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

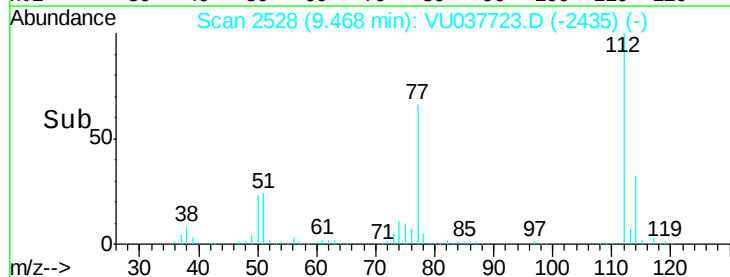
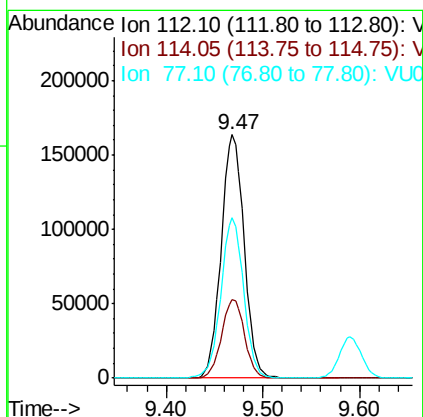
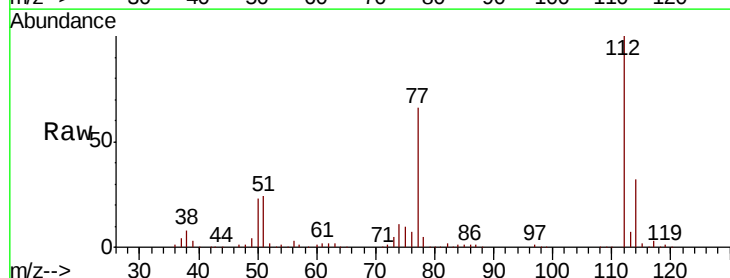
Instrument :
 MSVOA_U
 ClientSampled :

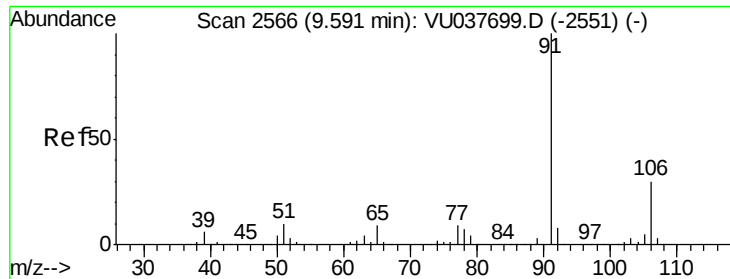
Tot Ion:107 Resp: 73844
 Ion Ratio Lower Upper
 107 100
 109 94.6 66.3 123.1
 188 3.2 2.5 3.7



#51
 Chlorobenzene
 Concen: 4.955 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion:112 Resp: 270107
 Ion Ratio Lower Upper
 112 100
 114 32.2 22.6 42.0
 77 65.6 50.2 75.4





#52

Ethylbenzene

Concen: 5.111 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

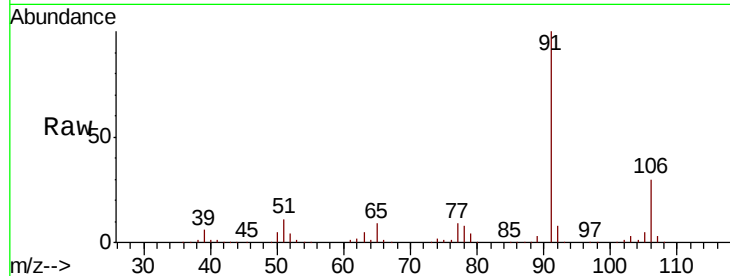
ClientSampleId :

Tot Ion: 91 Resp: 507992

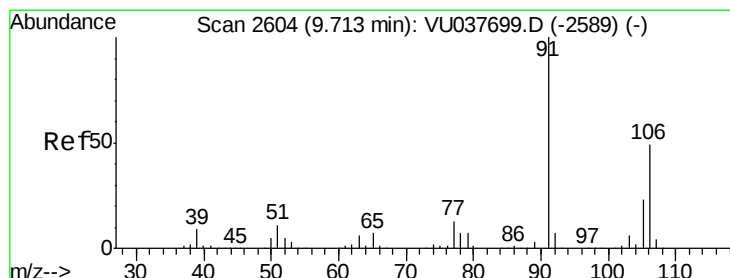
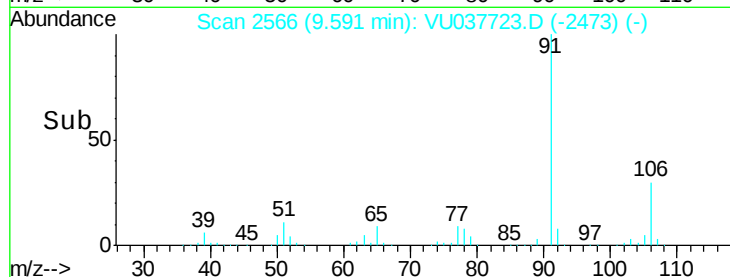
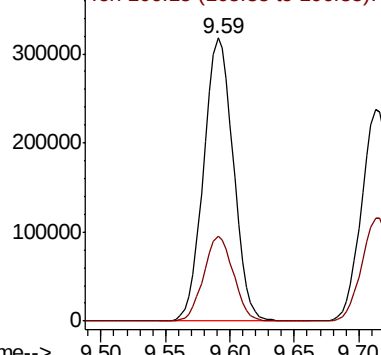
Ion Ratio Lower Upper

91 100

106 30.0 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VU037699.D (-2551) (-)



#53

m,p-Xylene

Concen: 5.042 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037723.D

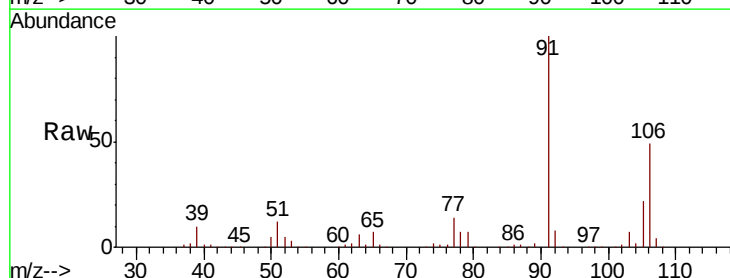
Acq: 15 Apr 2020 10:00

Tgt Ion: 106 Resp: 189679

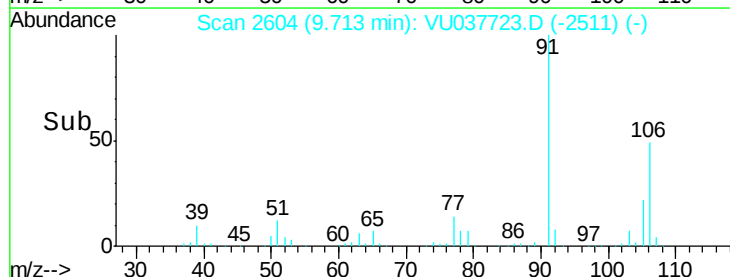
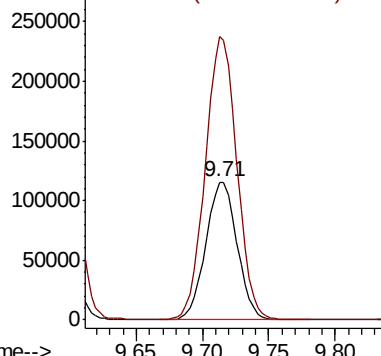
Ion Ratio Lower Upper

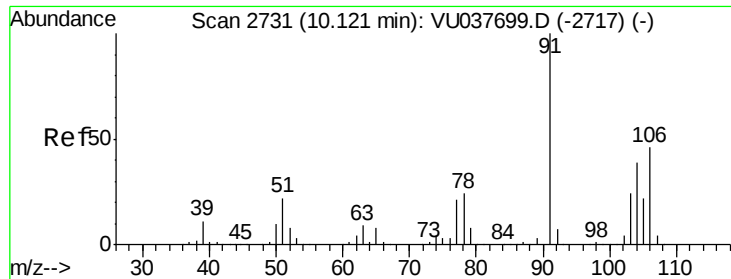
106 100

91 205.6 143.9 267.3



Abundance Ion 106.15 (105.85 to 106.85): VU037699.D (-2589) (-)

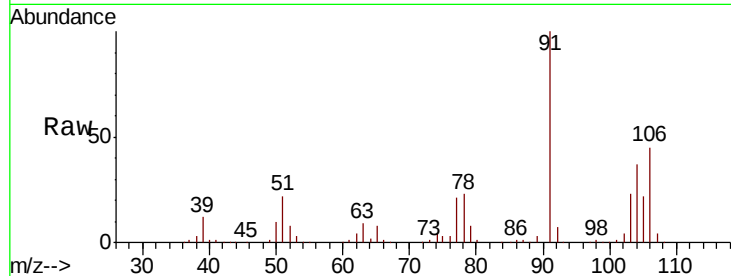




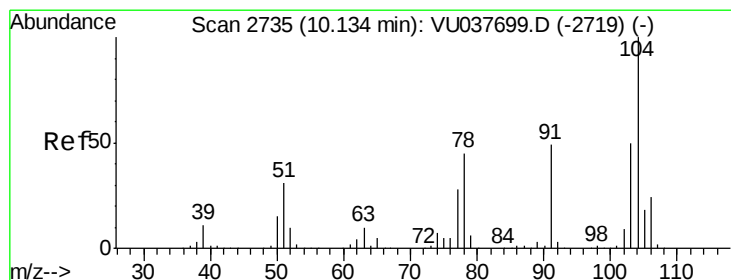
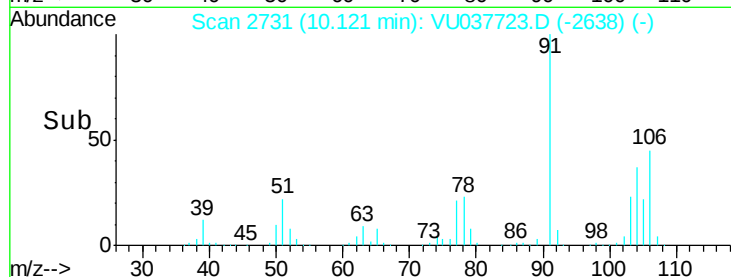
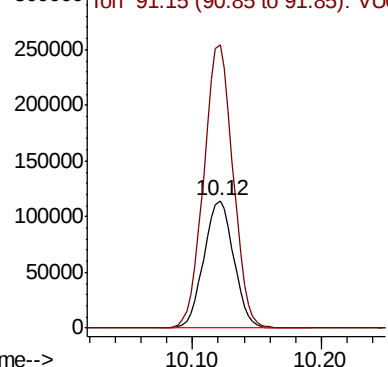
#54
o-Xylene
Concen: 4.963 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 183769
Ion Ratio Lower Upper
106 100
91 222.1 151.1 280.7

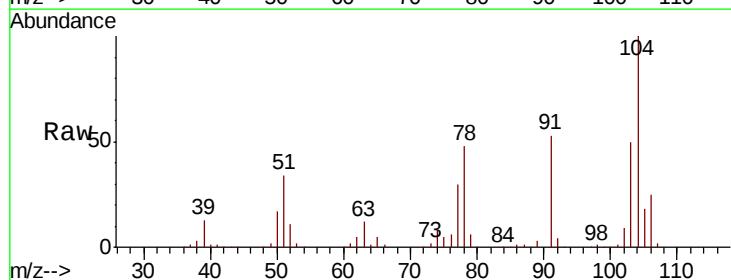


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

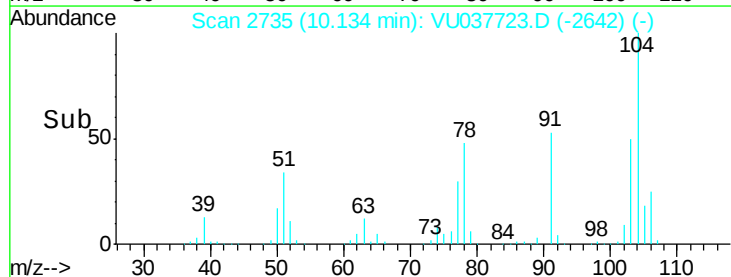
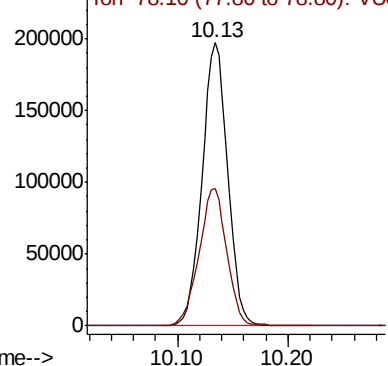


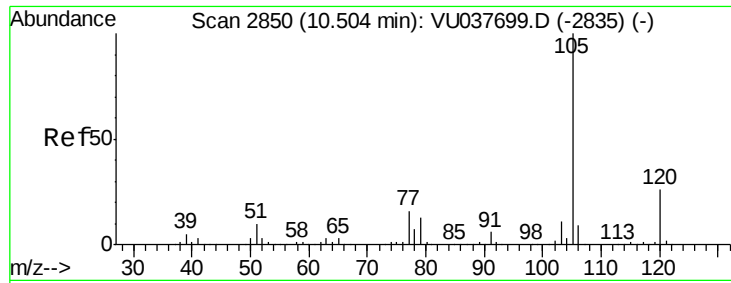
#55
Styrene
Concen: 5.008 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU037723.D
Acq: 15 Apr 2020 10:00

Tgt Ion:104 Resp: 316940
Ion Ratio Lower Upper
104 100
78 48.4 32.5 60.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.043 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

ClientSampleId :

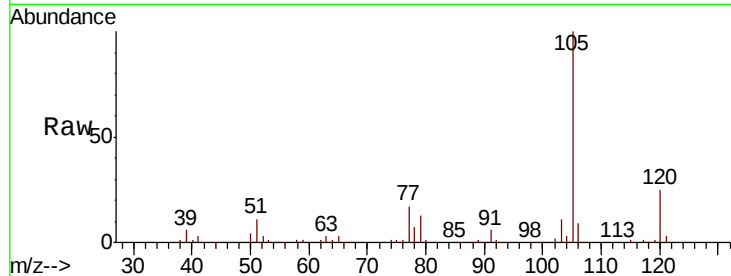
Tot Ion:105 Resp: 489792

Ion Ratio Lower Upper

105 100

120 25.4 20.6 31.0

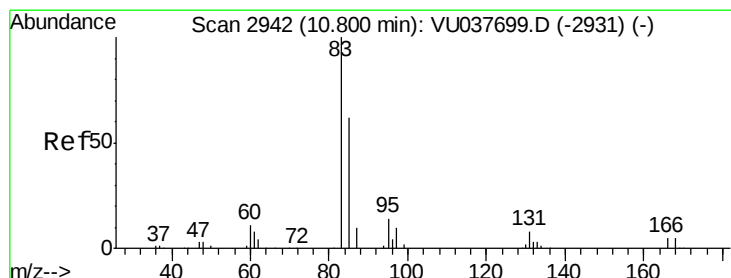
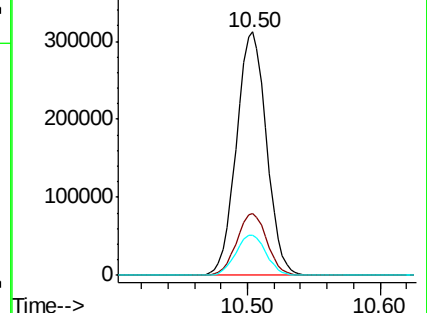
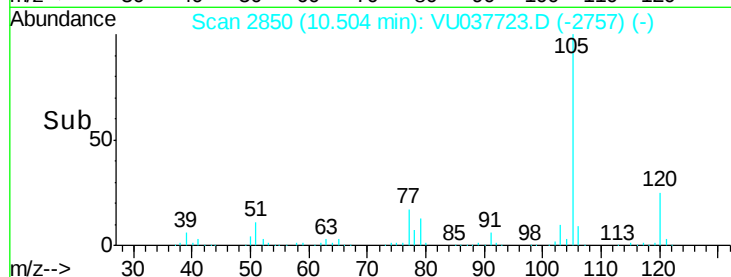
77 16.7 13.2 19.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.161 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

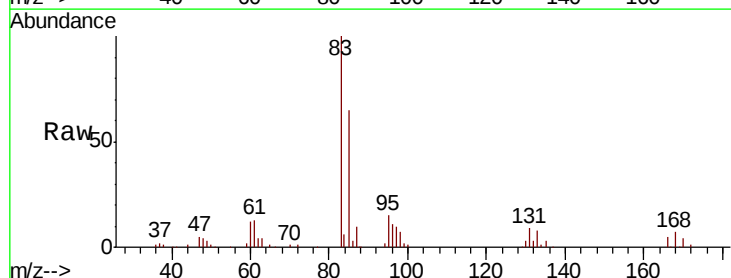
Tgt Ion: 83 Resp: 102420

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

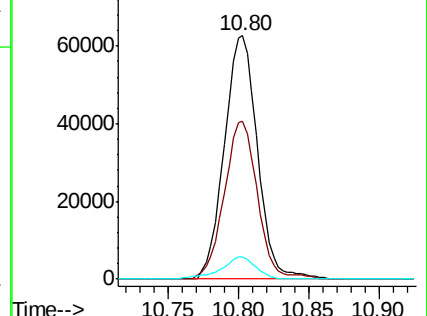
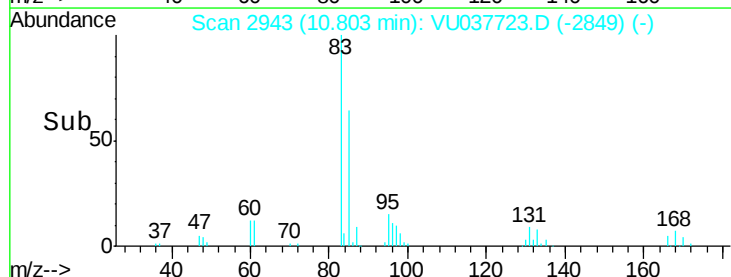
131 9.0 7.4 11.2

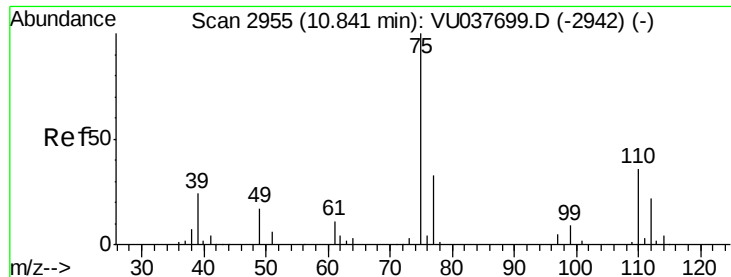


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.188 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

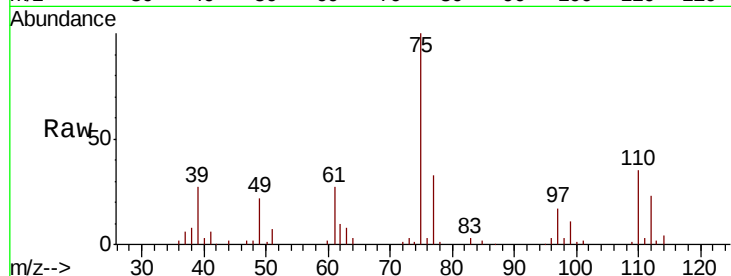
ClientSampled :

Tot Ion: 75 Resp: 76813

Ion Ratio Lower Upper

75 100

77 33.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037699.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037699.D (-2942) (-)

10.84

50000

40000

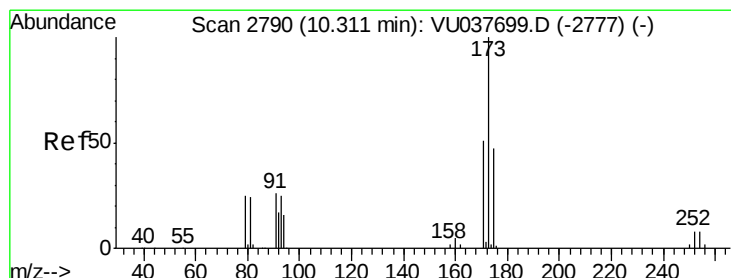
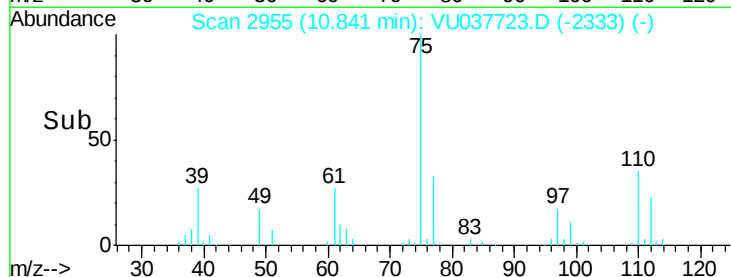
30000

20000

10000

0

Time--> 10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 4.752 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

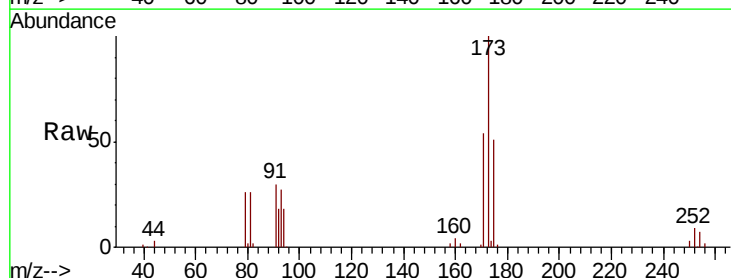
Tgt Ion: 173 Resp: 49225

Ion Ratio Lower Upper

173 100

175 50.3 37.6 56.4

254 6.8 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU037699.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU037699.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU037699.D (-2777) (-)

10.31

40000

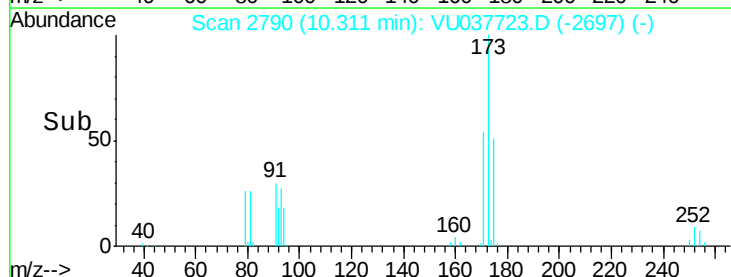
30000

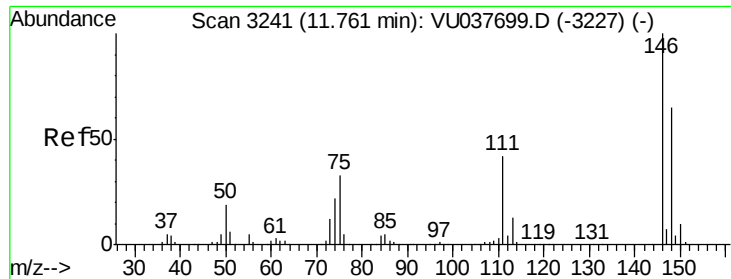
20000

10000

0

Time--> 10.25 10.30 10.35 10.40

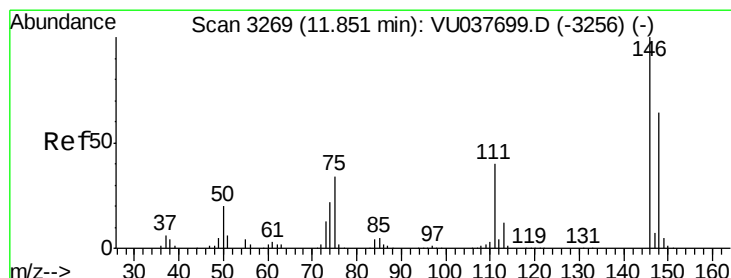
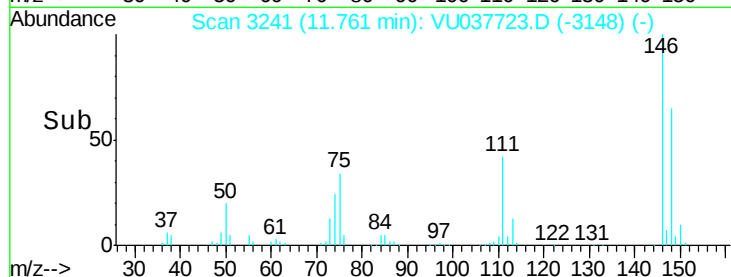
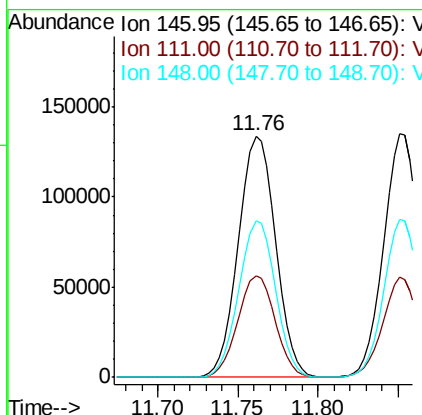
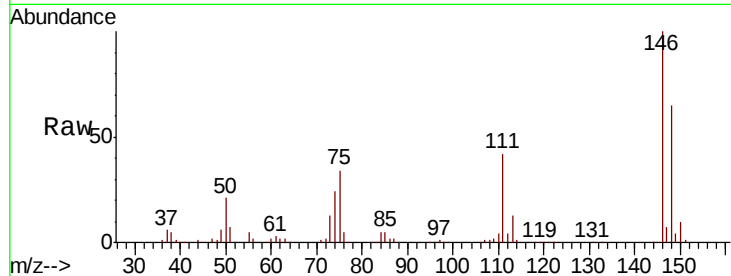




#62
 1,3-Dichlorobenzene
 Concen: 4.868 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

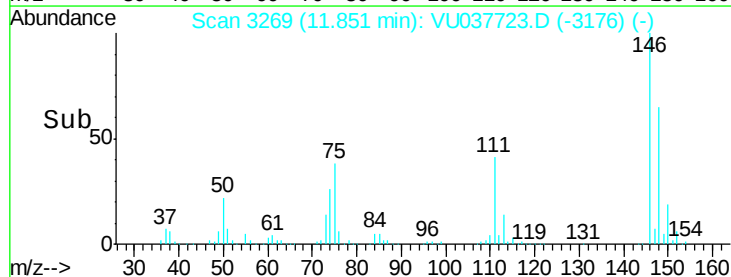
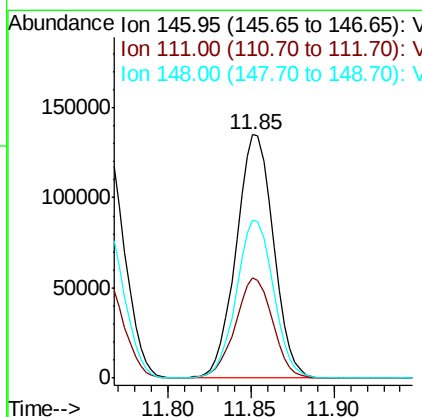
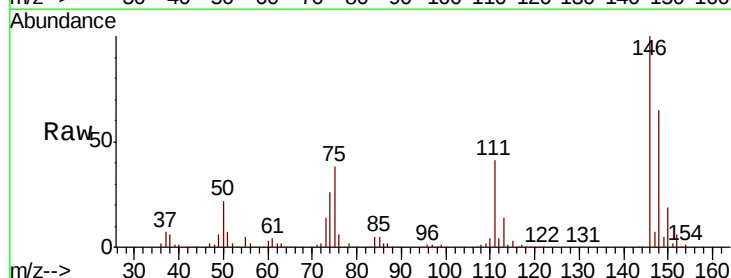
Instrument :
 MSVOA_U
 ClientSampleId :

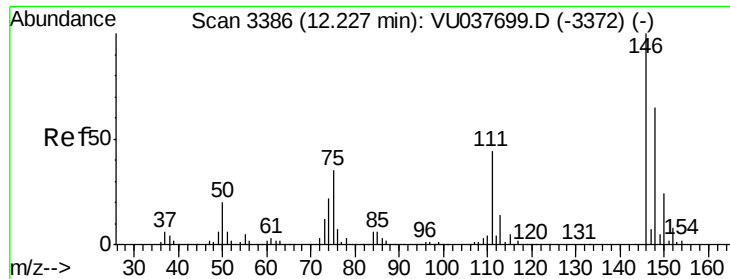
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	29.8	55.3
148	64.6	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.834 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	28.4	52.8
148	64.7	44.9	83.3





#65

1,2-Dichlorobenzene

Concen: 4.928 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

ClientSampleId :

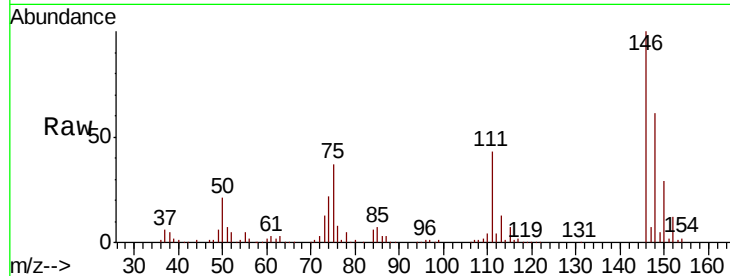
Tot Ion:146 Resp: 202578

Ion Ratio Lower Upper

146 100

111 43.0 35.0 52.6

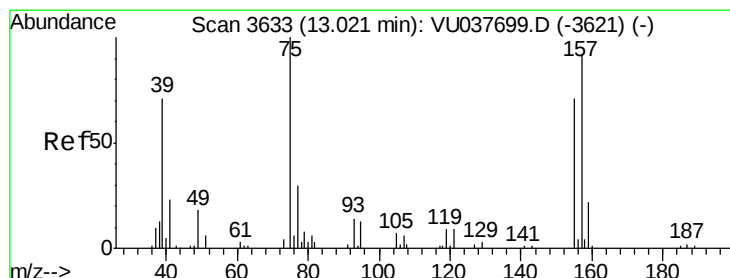
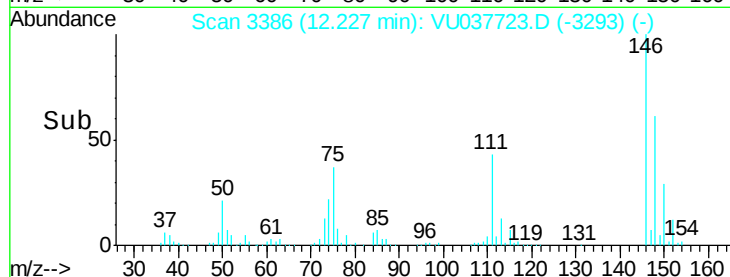
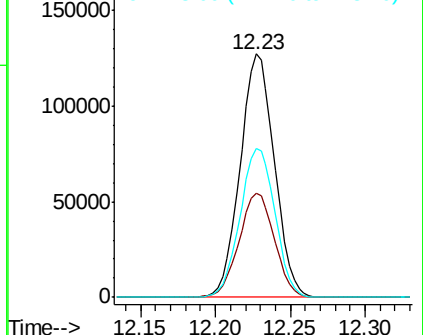
148 61.2 51.5 77.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.229 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

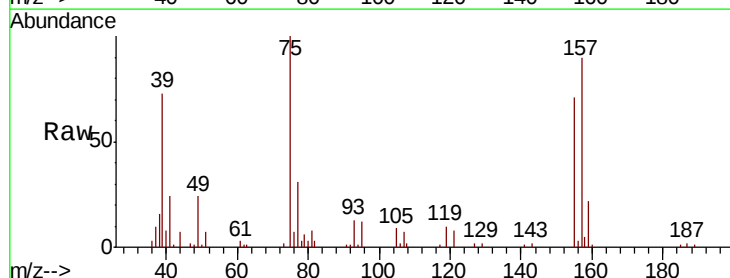
Tgt Ion: 75 Resp: 19923

Ion Ratio Lower Upper

75 100

155 70.8 57.9 86.9

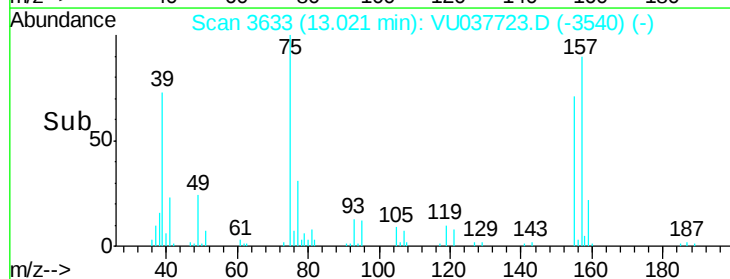
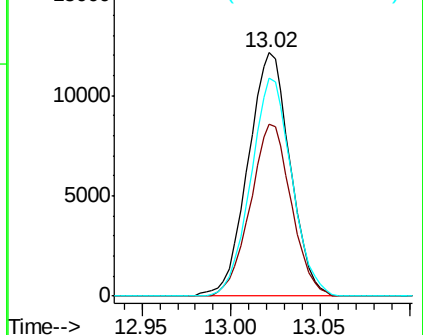
157 89.8 79.8 119.8

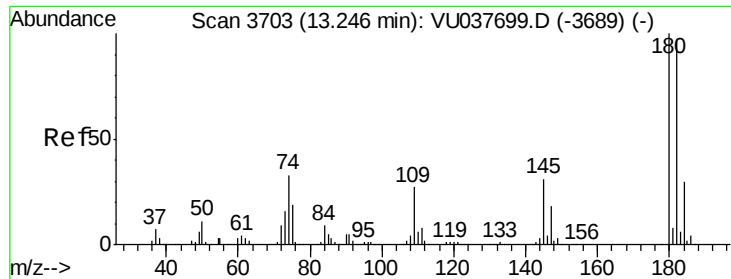


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

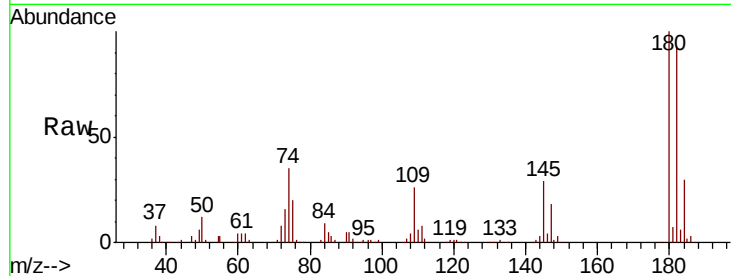




#67
 1,3,5-Trichlorobenzene
 Concen: 4.978 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.1	115.7
184	30.8	24.7	37.1
145	30.2	24.6	37.0



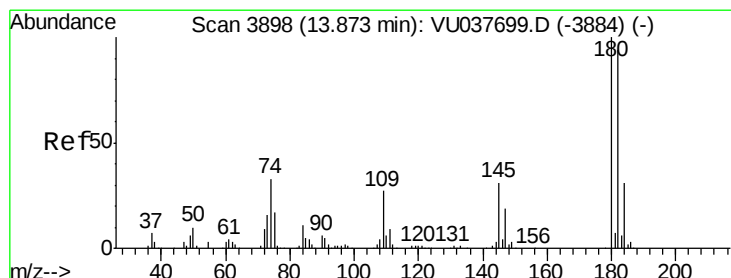
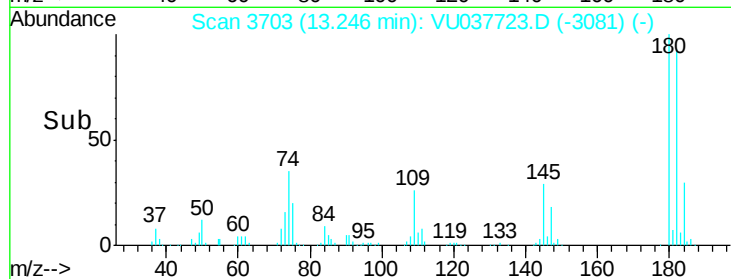
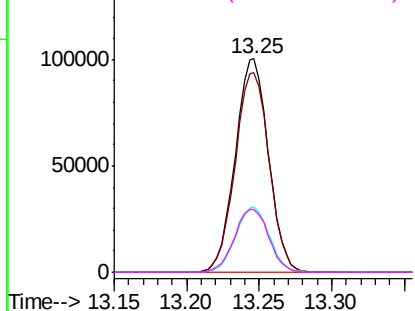
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

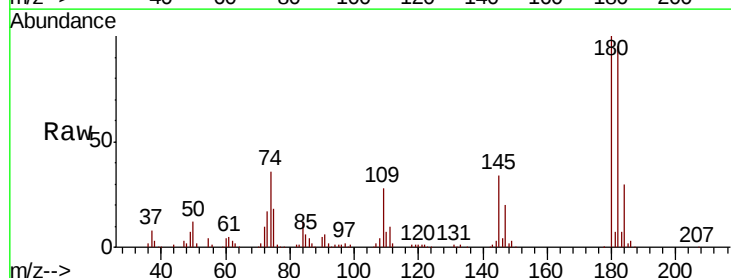
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.821 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. -0.00 min
 Lab File: VU037723.D
 Acq: 15 Apr 2020 10:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.4	114.6
145	32.4	25.1	37.7

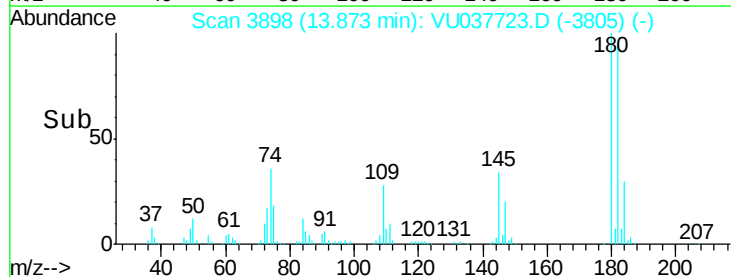
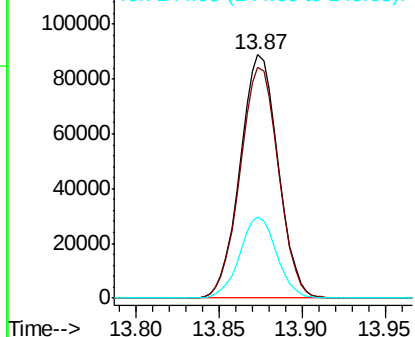


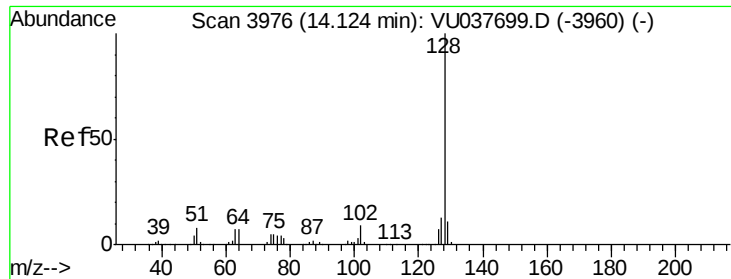
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.806 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

Instrument :

MSVOA_U

ClientSampleId :

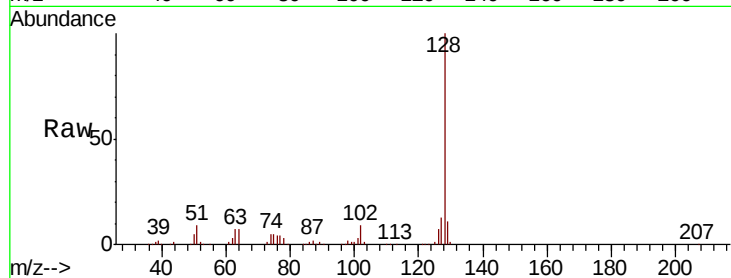
Tot Ion:128 Resp: 286054

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

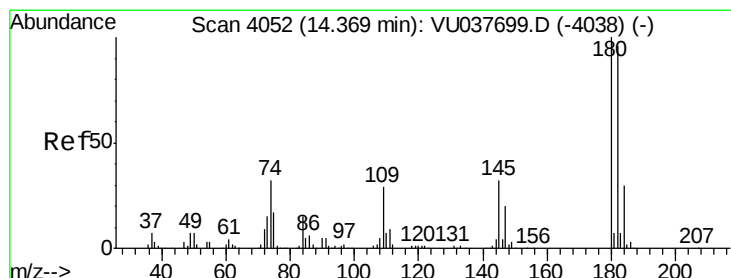
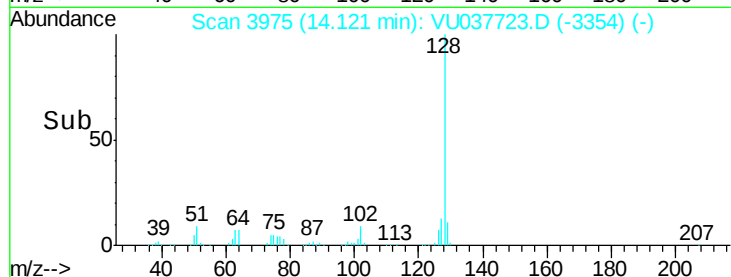
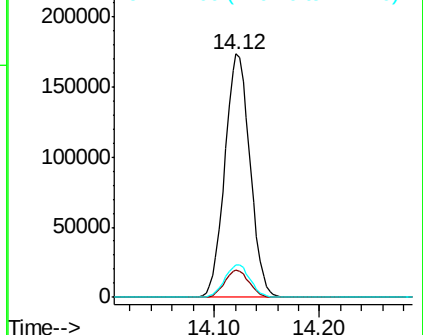
127 13.3 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.812 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VU037723.D

Acq: 15 Apr 2020 10:00

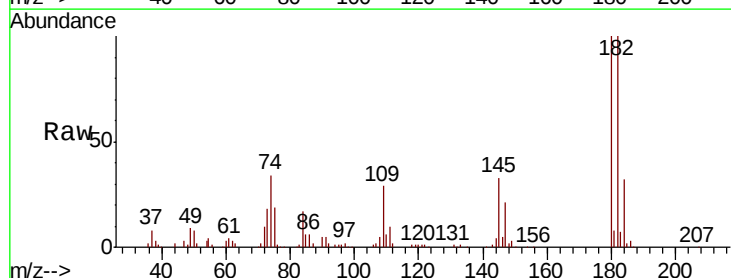
Tgt Ion:180 Resp: 126009

Ion Ratio Lower Upper

180 100

182 97.7 76.6 115.0

145 33.4 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

