

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031120\
 Data File : VU037155.D
 Acq On : 10 Mar 2020 16:42
 Operator : JC/MD
 Sample : VSTD00501
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

Quant Time: Mar 11 08:57:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Mar 11 08:42:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	125642	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	124473	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	62475	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	42065	4.04	ug/L	0.00
7) Chloroethane-d5	1.93	69	30452	3.49	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	88371	4.89	ug/L	0.00
20) 2-Butanone-d5	4.68	46	108263	48.59	ug/L	0.00
24) Chloroform-d	5.10	84	86386	5.13	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	48818	5.06	ug/L	0.00
32) Benzene-d6	5.76	84	157047	4.29	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	50001	4.28	ug/L	0.00
41) Toluene-d8	7.92	98	151685	4.42	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	21517	4.66	ug/L	0.00
46) 2-Hexanone-d5	8.66	63	89511	43.34	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	41376	4.45	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	52787	4.35	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	81688	8.220 ug/L	100
3) Chloromethane	1.53	50	67514	6.968 ug/L	100
5) Vinyl chloride	1.62	62	64263	6.026 ug/L	100
6) Bromomethane	1.87	94	24532	4.174 ug/L	100
8) Chloroethane	1.95	64	31126	4.433 ug/L	100
9) Trichlorofluoromethane	2.16	101	89569	6.279 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	47826	5.464 ug/L	100
12) 1,1-Dichloroethene	2.60	96	42529	5.404 ug/L	100
13) Acetone	2.68	43	95583	35.319 ug/L	100
14) Carbon disulfide	2.82	76	140537	6.833 ug/L	100
15) Methyl Acetate	2.99	43	20122	5.146 ug/L	100
16) Methylene chloride	3.08	84	49617	3.869 ug/L	100
17) Methyl tert-butyl Ether	3.40	73	114293	5.027 ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	46516	5.679 ug/L	100
19) 1,1-Dichloroethane	3.91	63	91604	5.425 ug/L	100
21) 2-Butanone	4.76	43	147224	44.720 ug/L	100
22) cis-1,2-Dichloroethene	4.71	96	49431	5.122 ug/L	100
23) Bromochloromethane	5.02	128	22187	5.664 ug/L	100
25) Chloroform	5.13	83	98549	5.406 ug/L	100
27) 1,2-Dichloroethane	5.83	62	67134	5.699 ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	82964	5.790 ug/L	100
30) Cyclohexane	5.42	56	81749	5.462 ug/L	100
31) Carbon tetrachloride	5.56	117	71644	6.110 ug/L	100
33) Benzene	5.81	78	197590	5.083 ug/L	100
34) Trichloroethene	6.57	95	52404	5.248 ug/L	100
35) Methylcyclohexane	6.79	83	82254	5.227 ug/L	100
37) 1,2-Dichloropropane	6.82	63	52281	4.974 ug/L	100
38) Bromodichloromethane	7.14	83	67899	5.309 ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	74569	4.931 ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	365242	53.081 ug/L	100

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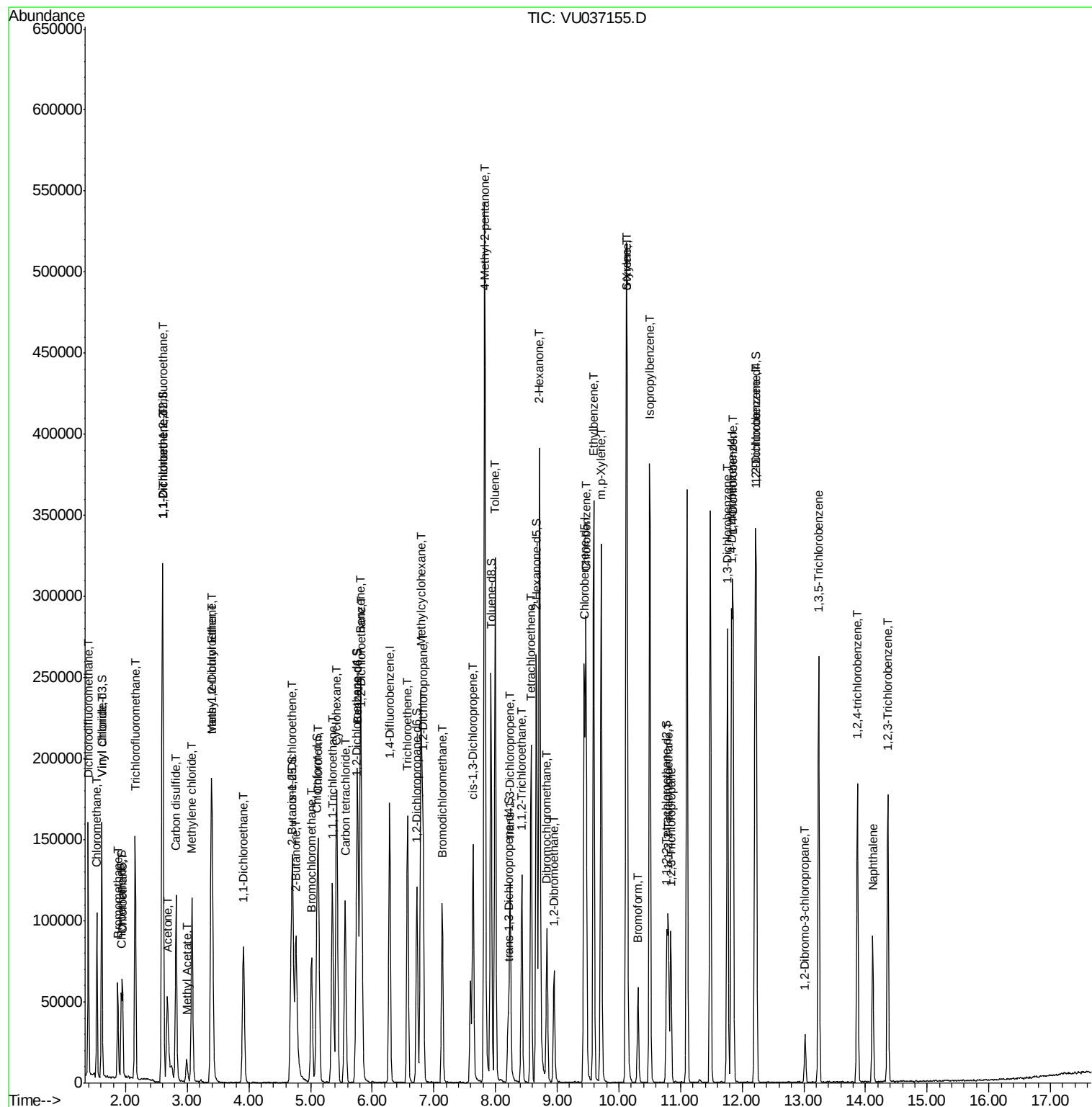
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	216199	5.162	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	62654	5.225	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	37142	5.046	ug/L	100
47) Tetrachloroethene	8.58	164	40456	5.783	ug/L	100
48) 2-Hexanone	8.71	43	272892	47.813	ug/L	100
49) Dibromochloromethane	8.83	129	45407	5.781	ug/L	100
50) 1,2-Dibromoethane	8.95	107	36125	5.357	ug/L	100
51) Chlorobenzene	9.47	112	130661	5.060	ug/L	100
52) Ethylbenzene	9.59	91	238358	5.110	ug/L	100
53) m,p-Xylene	9.71	106	87818	5.132	ug/L	100
54) o-Xylene	10.12	106	83430	5.007	ug/L	100
55) Styrene	10.13	104	139780	4.968	ug/L	100
56) Isopropylbenzene	10.50	105	226191	5.046	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	47094	4.924	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	35768	5.109	ug/L	100
61) Bromoform	10.31	173	24648	5.560	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	103897	4.823	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	100943	4.752	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	98125	4.754	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	7601	4.960	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	72981	4.854	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	49443	4.467	ug/L	100
69) Naphthalene	14.12	128	67850	3.548	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	46984	4.694	ug/L	100

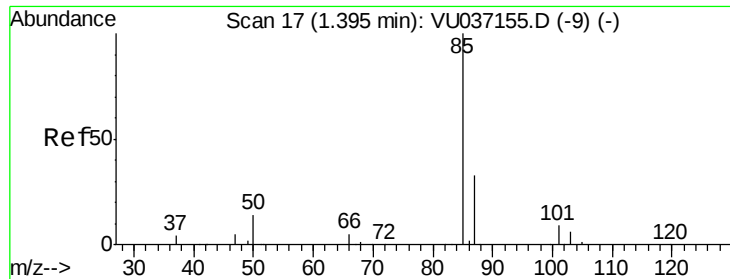
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 8.220 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

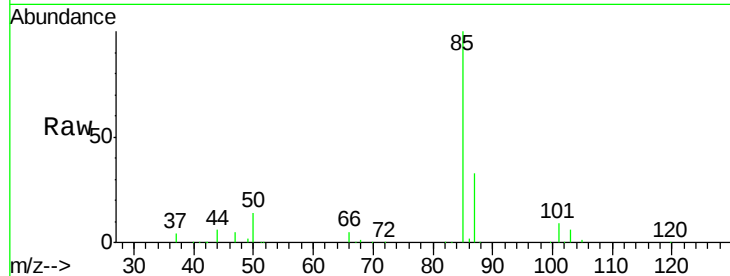
VSTD00501

Tgt Ion: 85 Resp: 81688

Ion Ratio Lower Upper

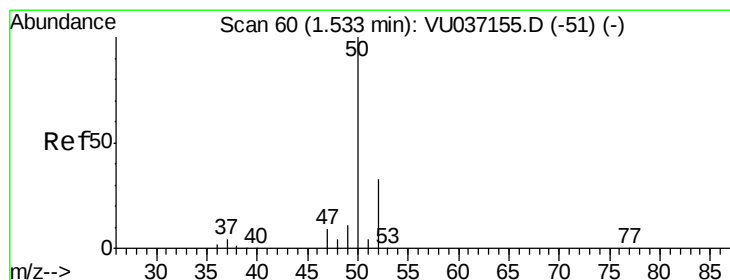
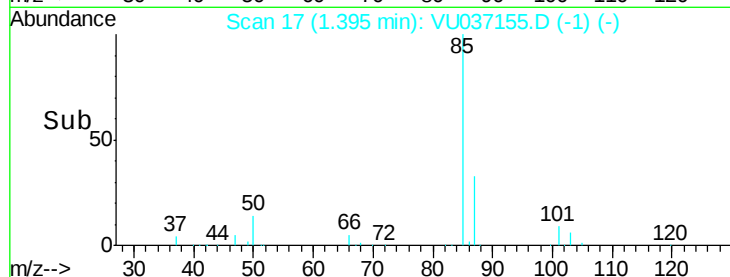
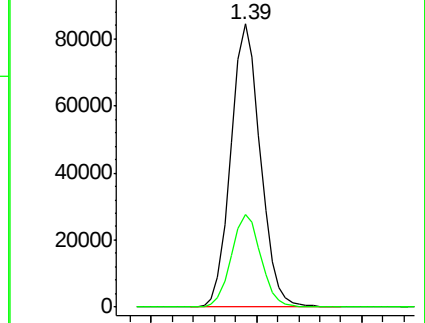
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037155.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037155.D (-9) (-)



#3

Chloromethane

Concen: 6.968 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037155.D

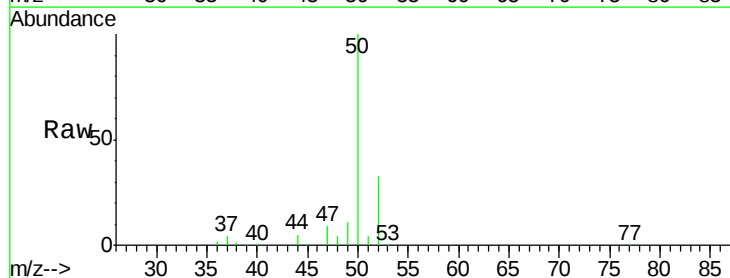
Acq: 10 Mar 2020 16:42

Tgt Ion: 50 Resp: 67514

Ion Ratio Lower Upper

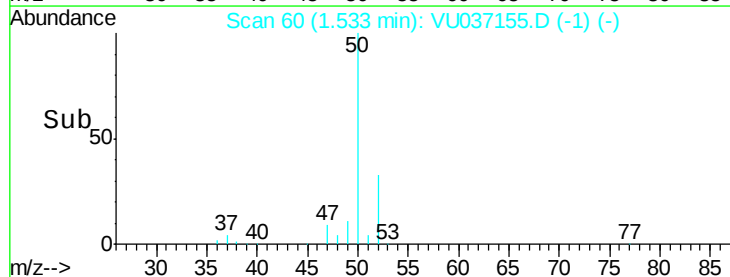
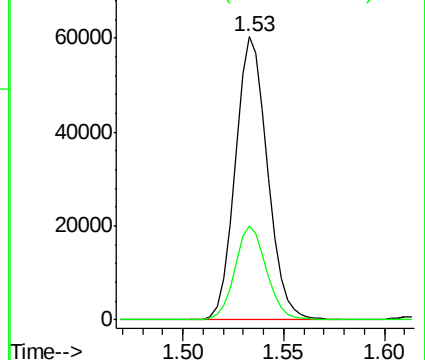
50 100

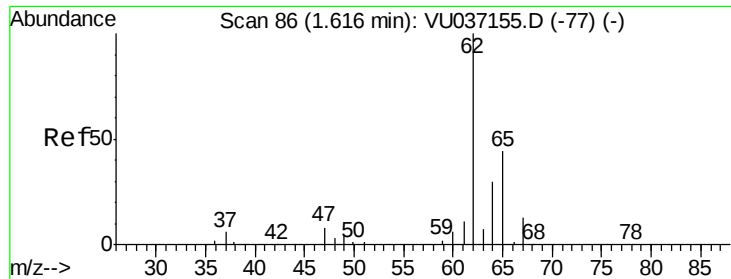
52 33.3 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU037155.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU037155.D (-51) (-)





#5

Vinyl chloride

Concen: 6.026 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

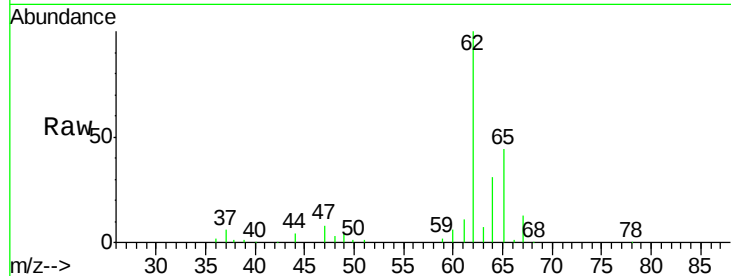
VSTD00501

Tgt Ion: 62 Resp: 64263

Ion Ratio Lower Upper

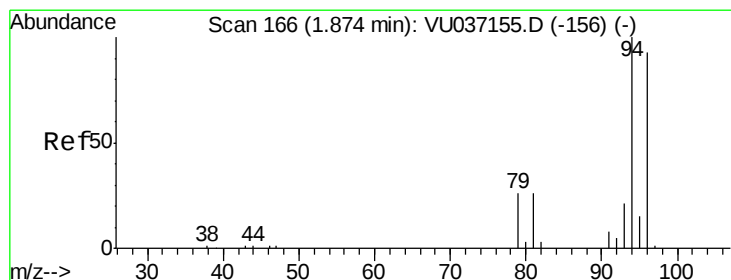
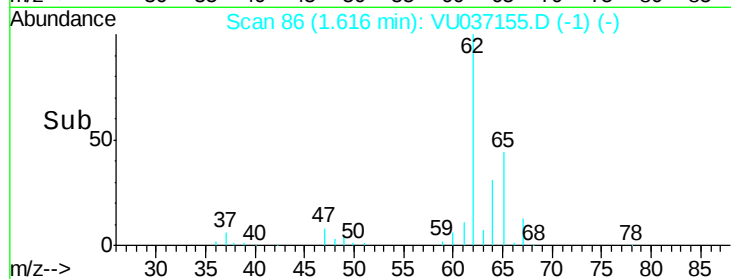
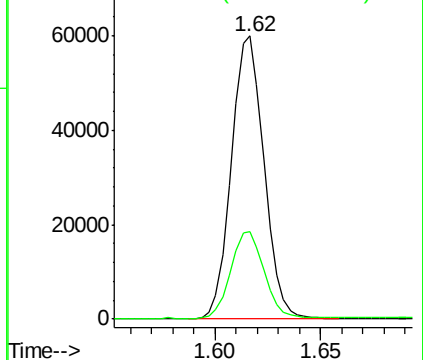
62 100

64 30.8 21.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.174 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037155.D

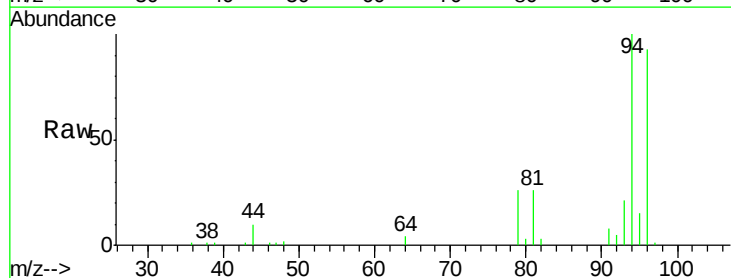
Acq: 10 Mar 2020 16:42

Tgt Ion: 94 Resp: 24532

Ion Ratio Lower Upper

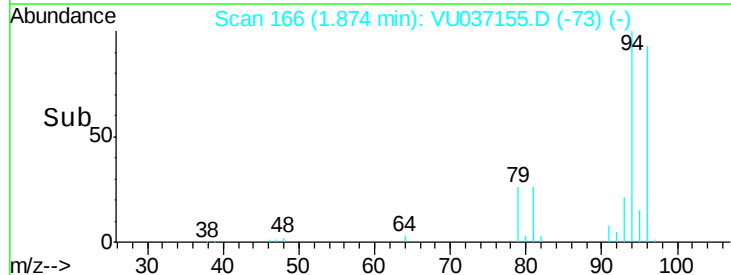
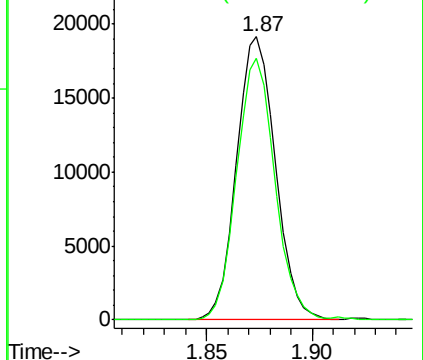
94 100

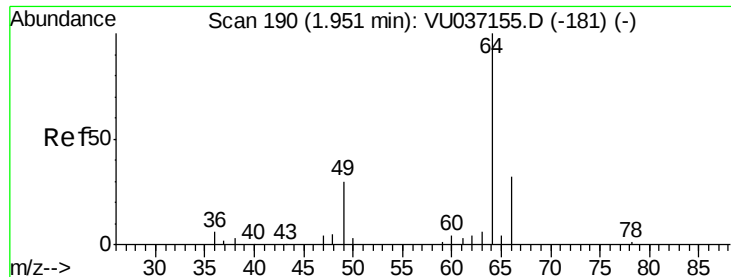
96 92.6 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

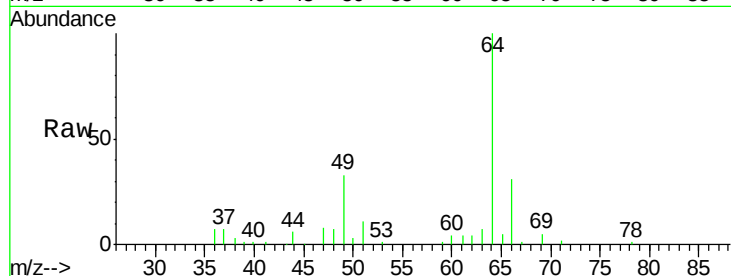




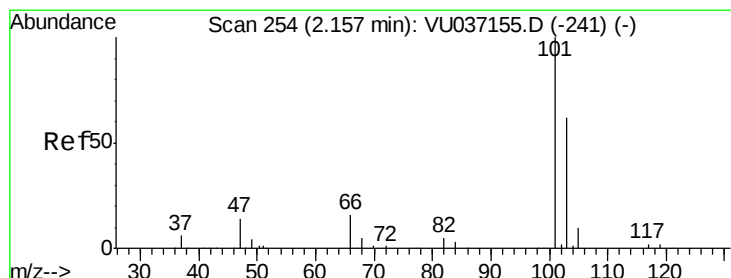
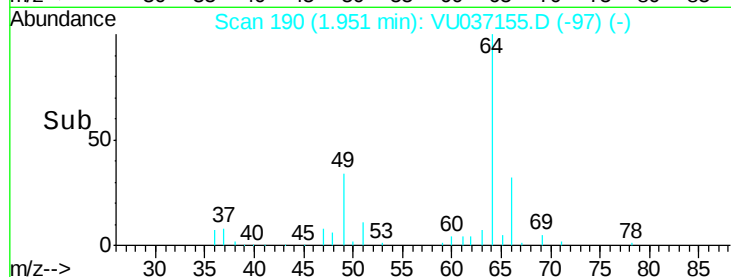
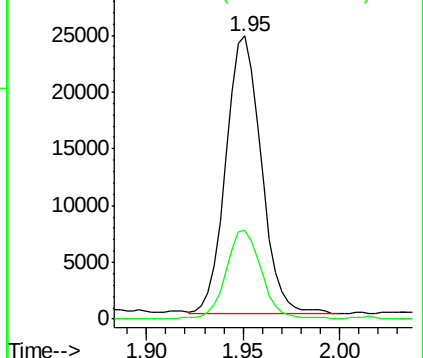
#8
Chloroethane
Concen: 4.433 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

Tgt Ion: 64 Resp: 31126
Ion Ratio Lower Upper
64 100
66 31.4 22.0 40.8

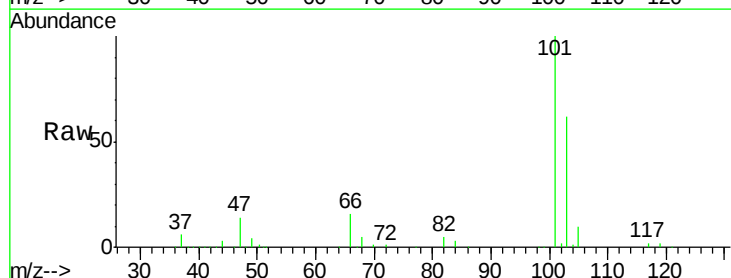


Abundance Ion 64.10 (63.80 to 64.80): VU037155.D (-181) (-)
Ion 66.05 (65.75 to 66.75): VU037155.D (-181) (-)

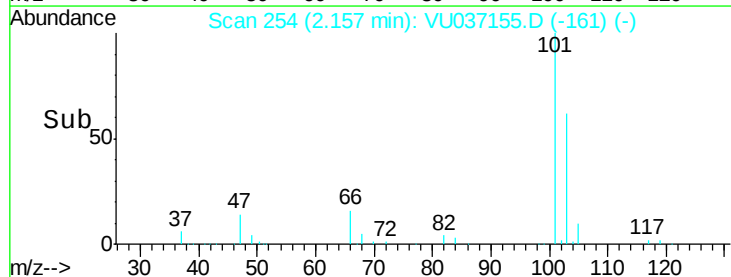
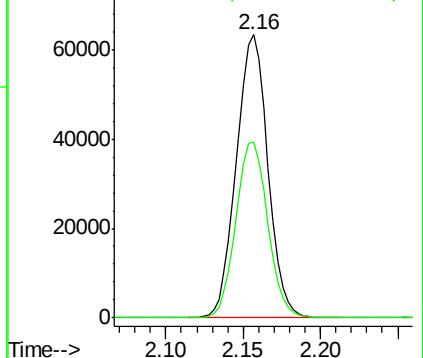


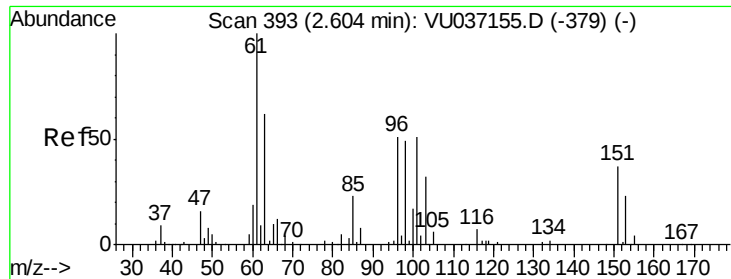
#9
Trichlorofluoromethane
Concen: 6.279 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Tgt Ion: 101 Resp: 89569
Ion Ratio Lower Upper
101 100
103 62.8 50.2 75.4



Abundance Ion 101.00 (100.70 to 101.70): VU037155.D (-241) (-)
Ion 103.00 (102.70 to 103.70): VU037155.D (-241) (-)





#10

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

Concen: 5.464 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

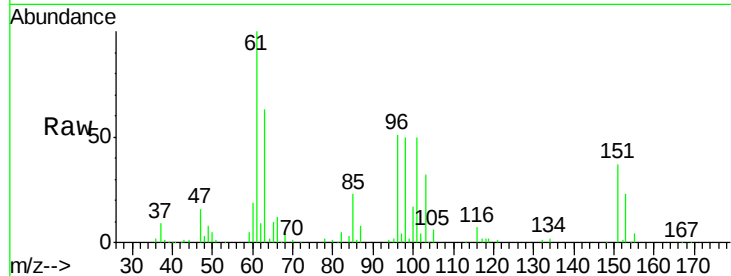
Tgt Ion: 101 Resp: 47826

Ion Ratio Lower Upper

101 100

85 46.9 37.5 56.3

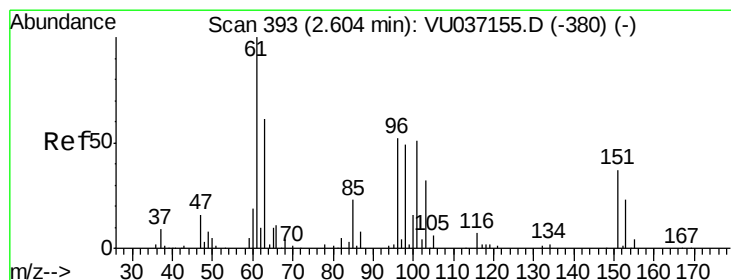
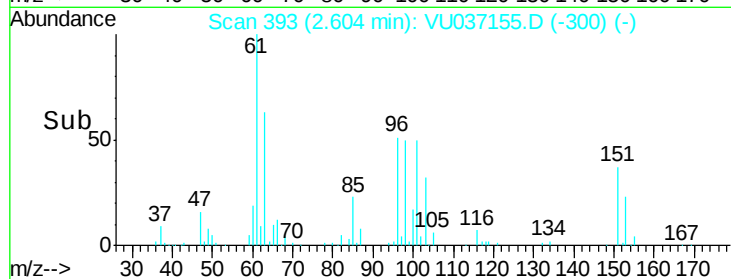
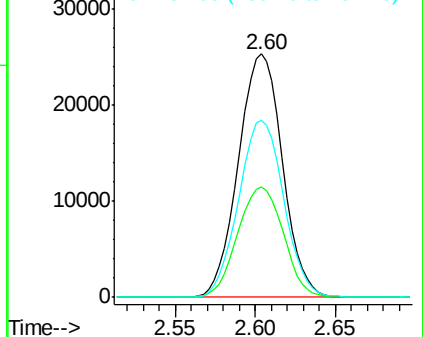
151 74.7 59.8 89.6



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: 5.404 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

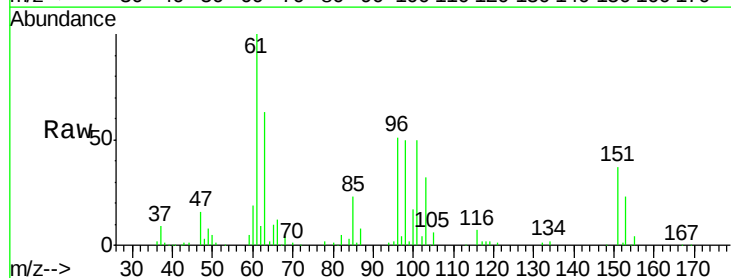
Tgt Ion: 96 Resp: 42529

Ion Ratio Lower Upper

96 100

61 194.8 136.4 253.2

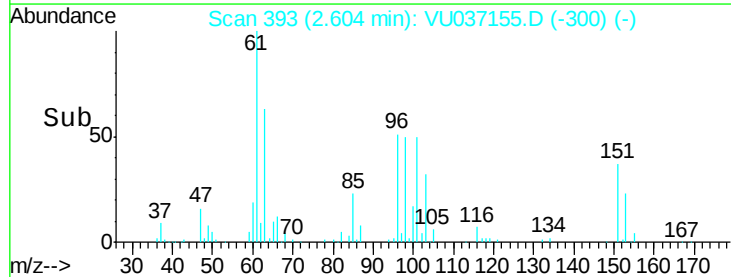
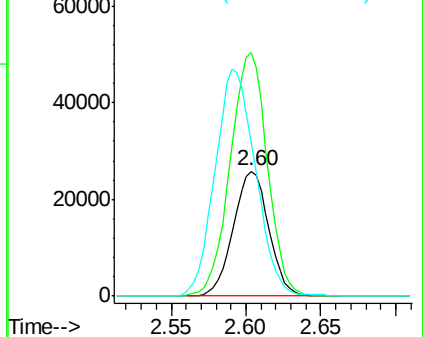
63 123.1 86.2 160.0

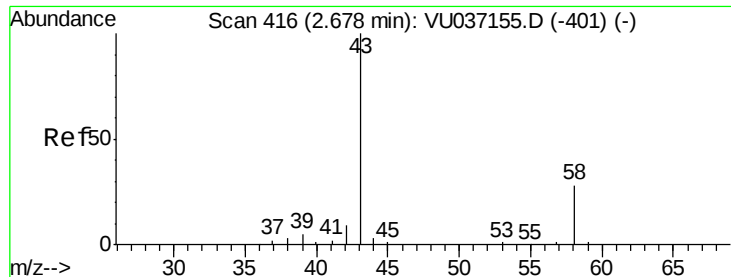


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 35.319 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

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ClientSampleId :

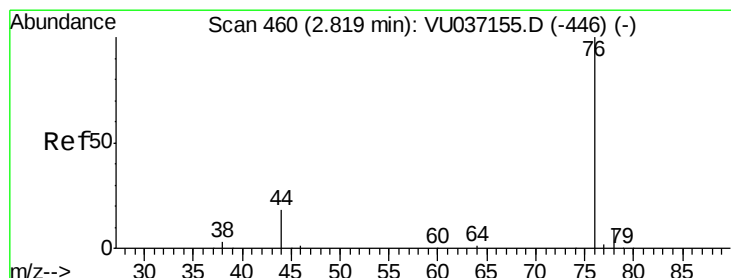
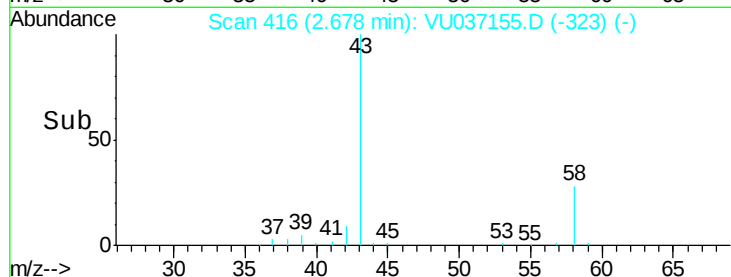
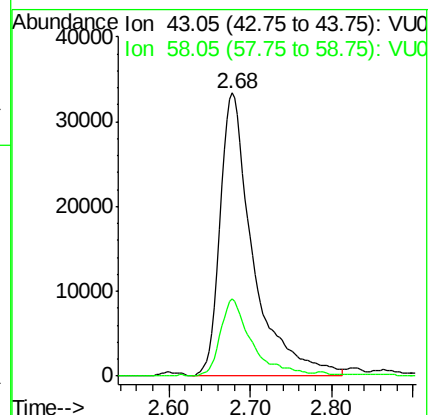
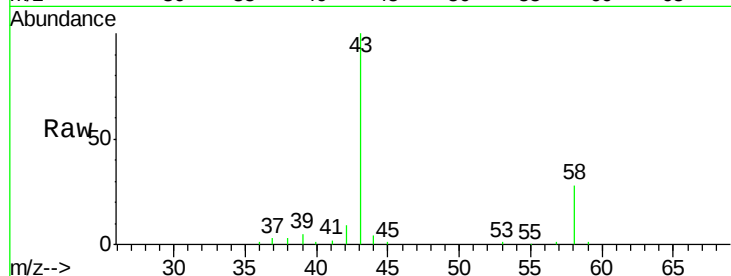
VSTD00501

Tgt Ion: 43 Resp: 95583

Ion Ratio Lower Upper

43 100

58 26.1 0.0 52.2



#14

Carbon disulfide

Concen: 6.833 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037155.D

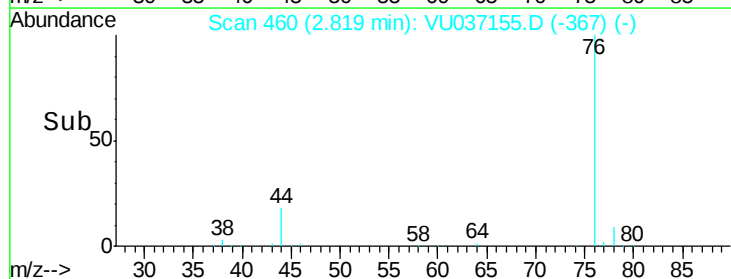
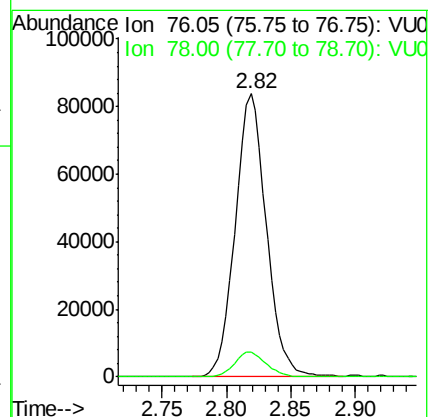
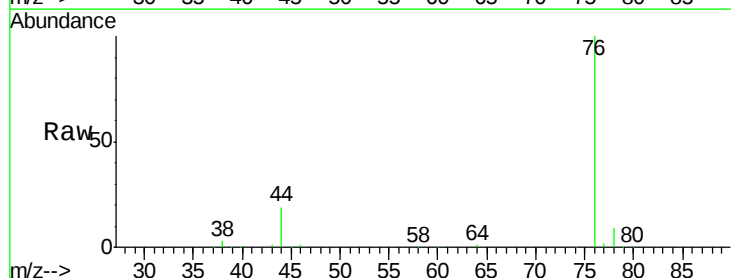
Acq: 10 Mar 2020 16:42

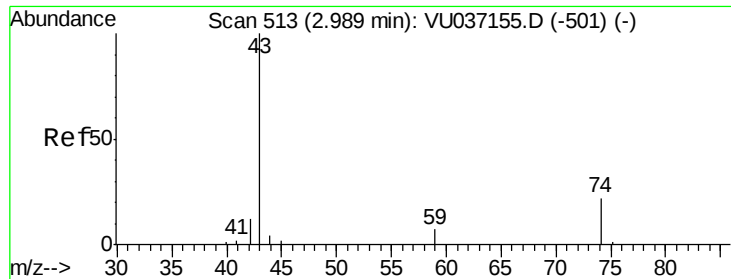
Tgt Ion: 76 Resp: 140537

Ion Ratio Lower Upper

76 100

78 8.6 6.9 10.3

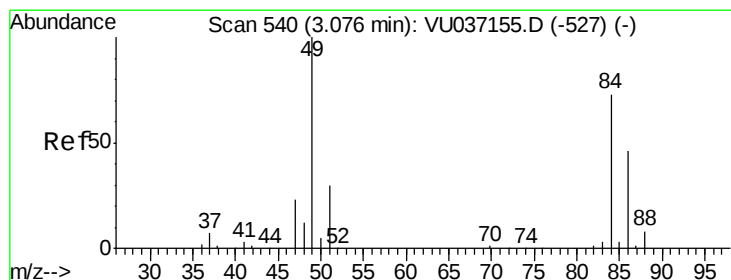
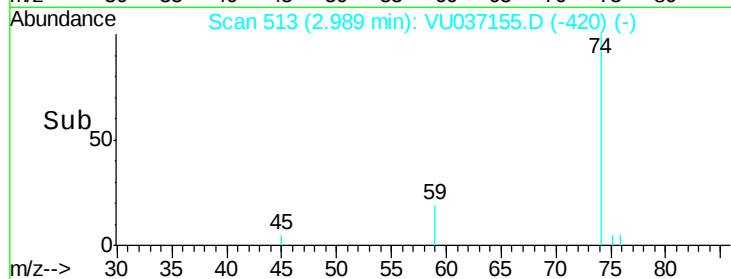
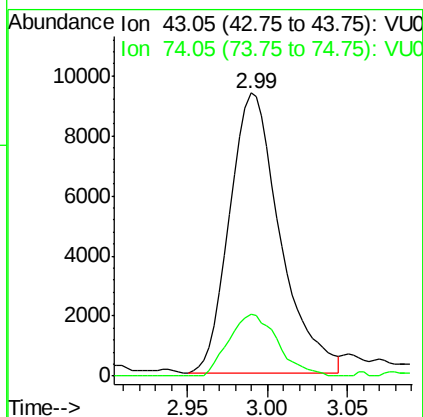
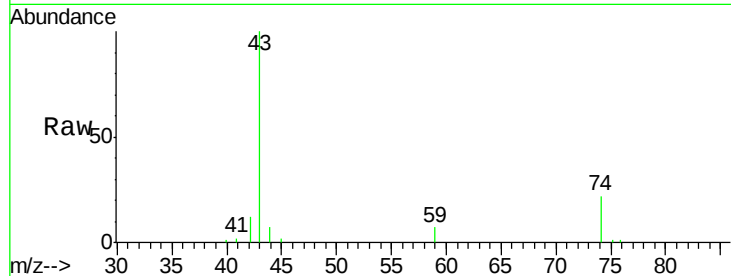




#15
Methyl Acetate
Concen: 5.146 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

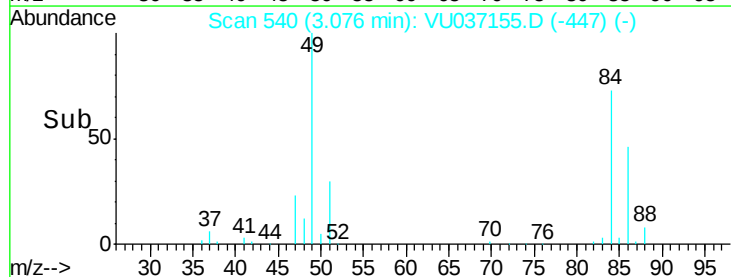
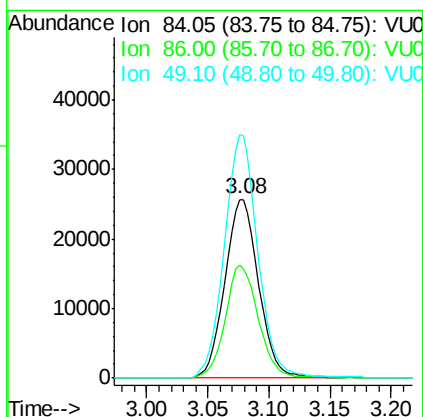
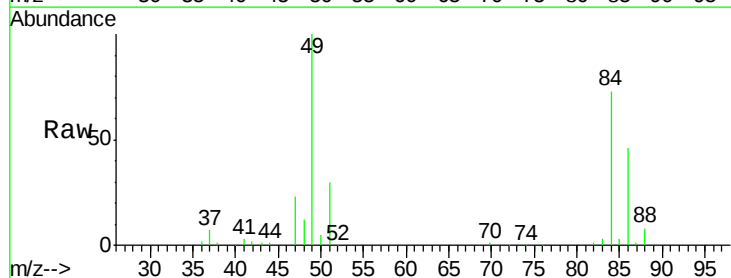
Instrument :
MSVOA_U
ClientSampled :
VSTD00501

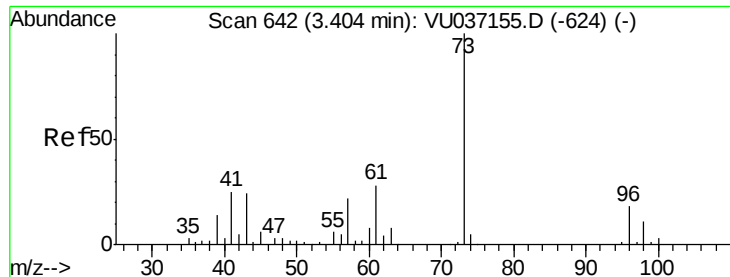
Tgt Ion: 43 Resp: 20122
Ion Ratio Lower Upper
43 100
74 21.4 17.1 25.7



#16
Methylene chloride
Concen: 3.869 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Tgt Ion: 84 Resp: 49617
Ion Ratio Lower Upper
84 100
86 63.3 44.3 82.3
49 136.2 95.3 177.1

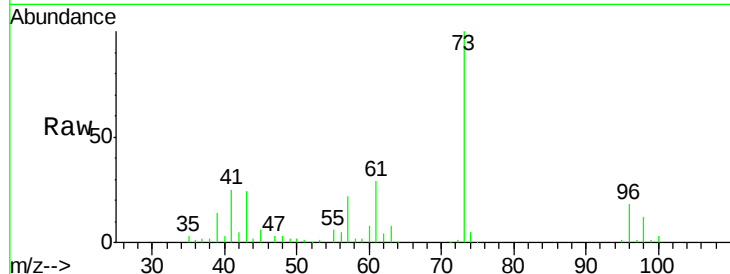




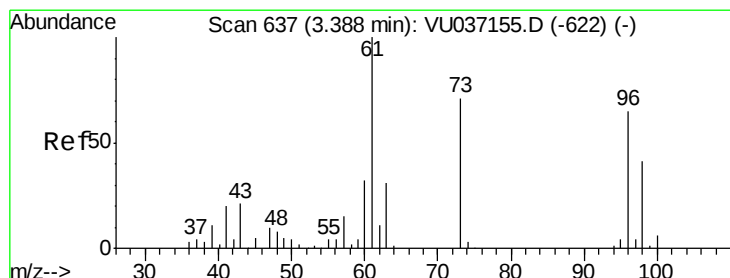
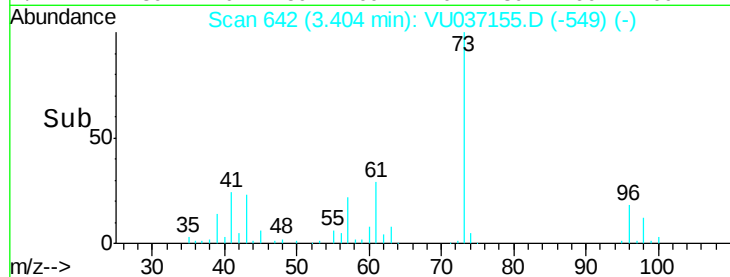
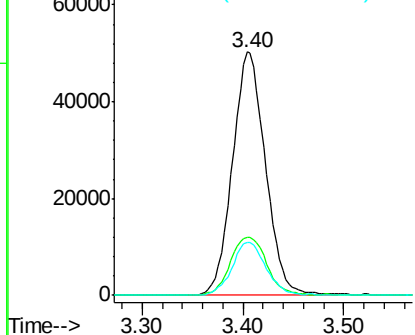
#17
Methyl tert-butyl Ether
Concen: 5.027 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

Tgt Ion: 73 Resp: 114293
Ion Ratio Lower Upper
73 100
43 26.4 21.1 31.7
57 22.4 17.9 26.9

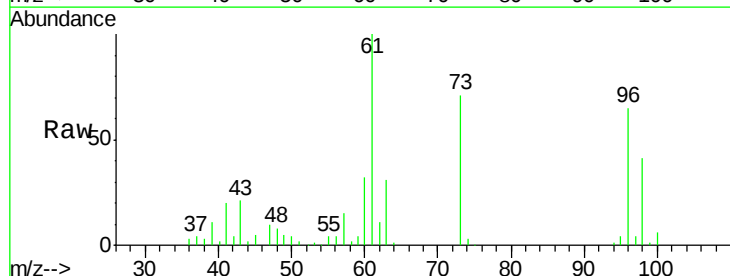


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

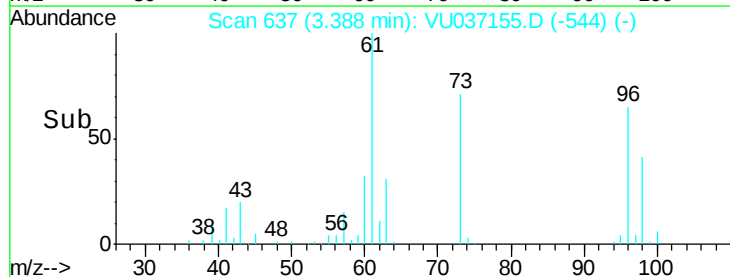
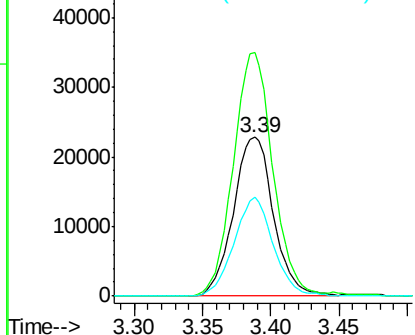


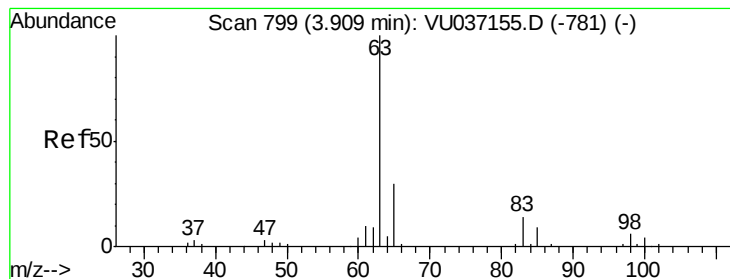
#18
trans-1,2-Dichloroethene
Concen: 5.679 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Tgt Ion: 96 Resp: 46516
Ion Ratio Lower Upper
96 100
61 153.2 107.2 199.2
98 62.3 43.6 81.0



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: 5.425 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

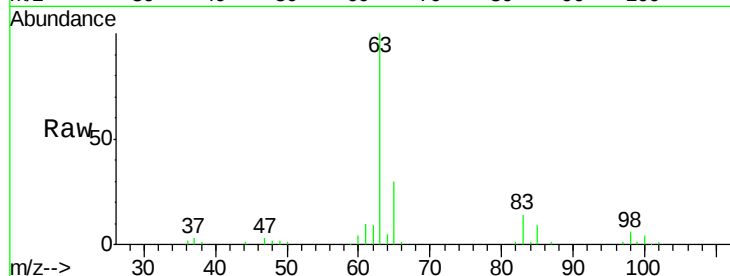
Tgt Ion: 63 Resp: 91604

Ion Ratio Lower Upper

63 100

65 30.4 21.3 39.5

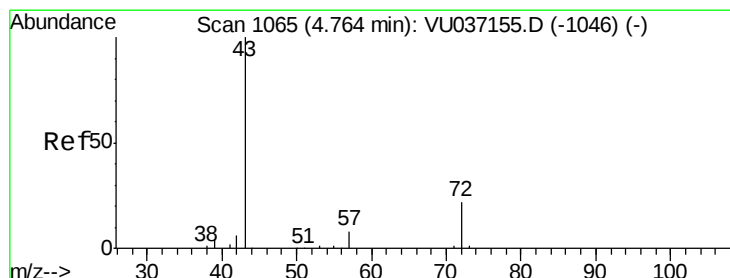
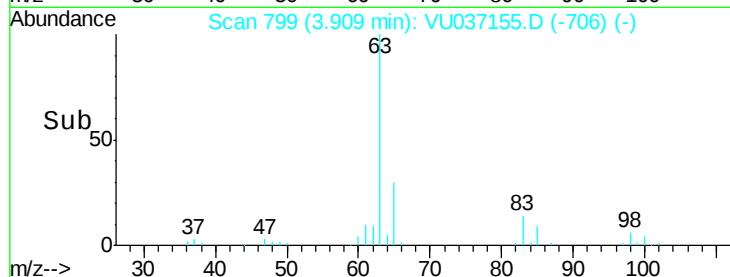
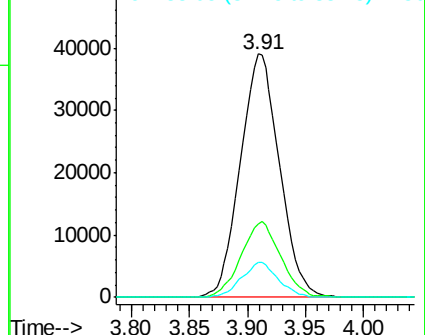
83 14.3 10.0 18.6



Abundance Ion 63.10 (62.80 to 63.80): VU037155.D (-781) (-)

Ion 65.10 (64.80 to 65.80): VU037155.D (-781) (-)

Ion 83.05 (82.75 to 83.75): VU037155.D (-781) (-)



#21

2-Butanone

Concen: 44.720 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VU037155.D

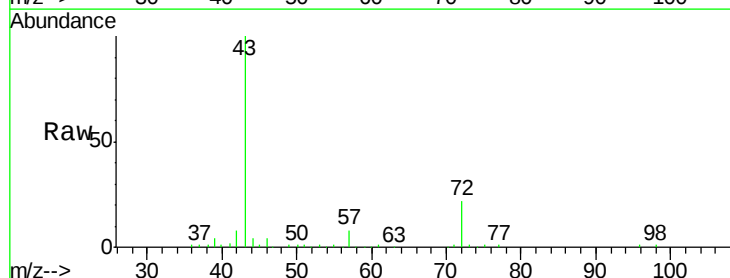
Acq: 10 Mar 2020 16:42

Tgt Ion: 43 Resp: 147224

Ion Ratio Lower Upper

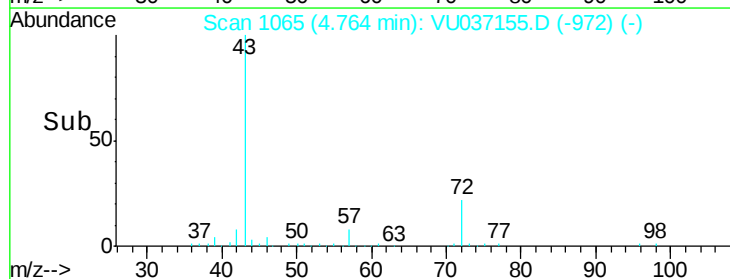
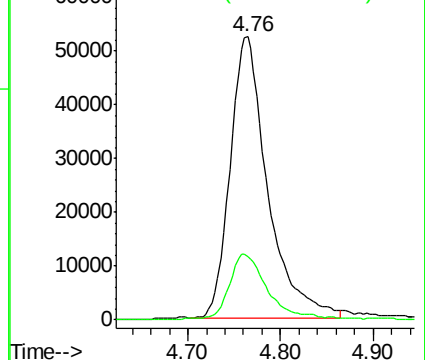
43 100

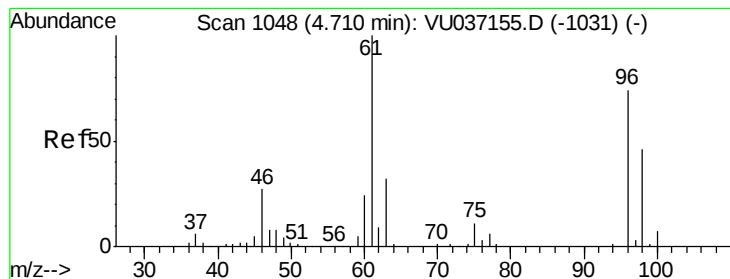
72 23.1 11.6 34.7



Abundance Ion 43.05 (42.75 to 43.75): VU037155.D (-1046) (-)

Ion 72.10 (71.80 to 72.80): VU037155.D (-1046) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.122 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

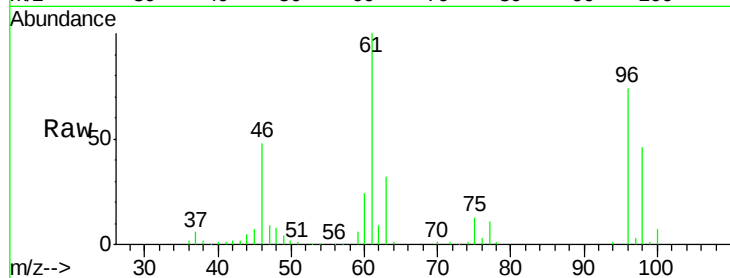
Tgt Ion: 96 Resp: 49431

Ion Ratio Lower Upper

96 100

61 134.5 94.1 174.8

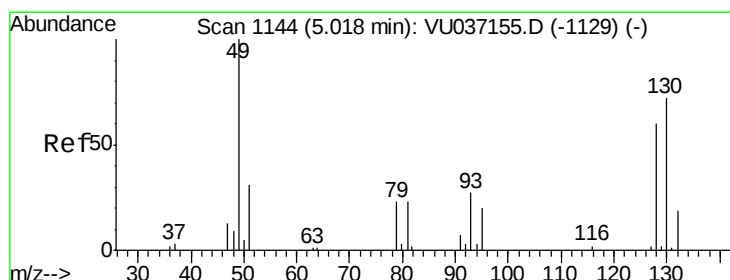
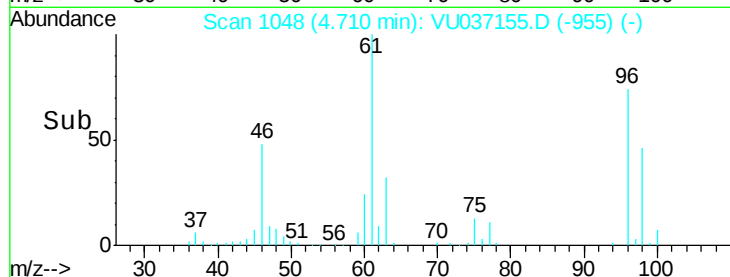
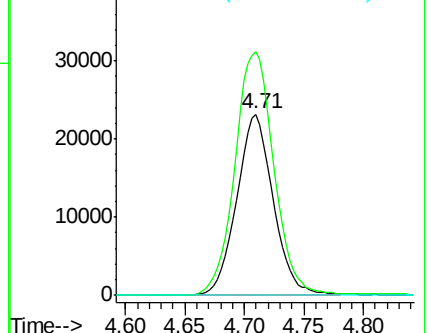
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037155.D (-1031) (-)

Ion 61.05 (60.75 to 61.75): VU037155.D (-1031) (-)

Ion 68.15 (67.85 to 68.85): VU037155.D (-1031) (-)



#23

Bromochloromethane

Concen: 5.664 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Tgt Ion: 128 Resp: 22187

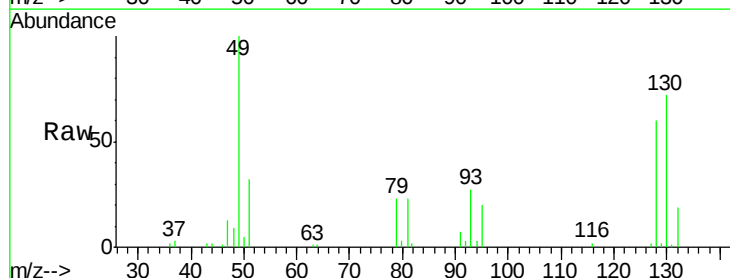
Ion Ratio Lower Upper

128 100

49 165.3 115.7 214.9

130 118.7 83.1 154.3

51 53.1 42.5 63.7

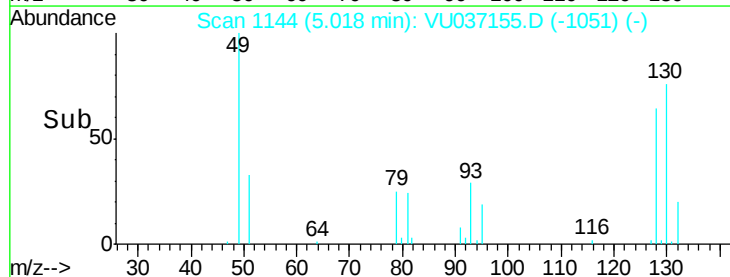
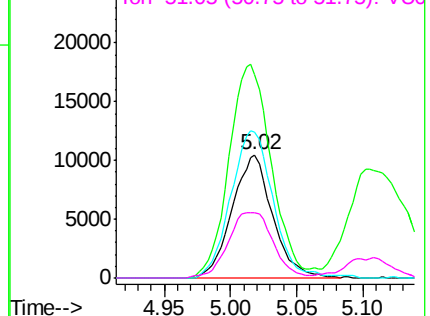


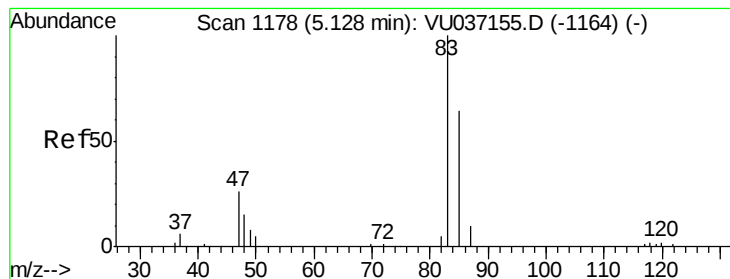
Abundance Ion 127.90 (127.60 to 128.60): VU037155.D (-1129) (-)

Ion 49.10 (48.80 to 49.80): VU037155.D (-1129) (-)

Ion 129.95 (129.65 to 130.65): VU037155.D (-1129) (-)

Ion 51.05 (50.75 to 51.75): VU037155.D (-1129) (-)





#25

Chloroform

Concen: 5.406 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

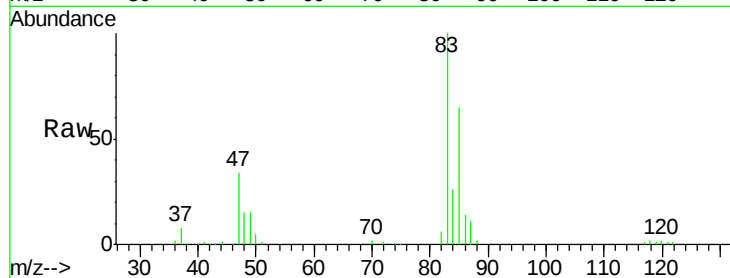
VSTD00501

Tgt Ion: 83 Resp: 98549

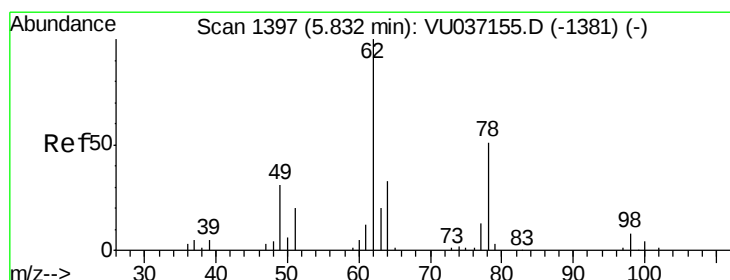
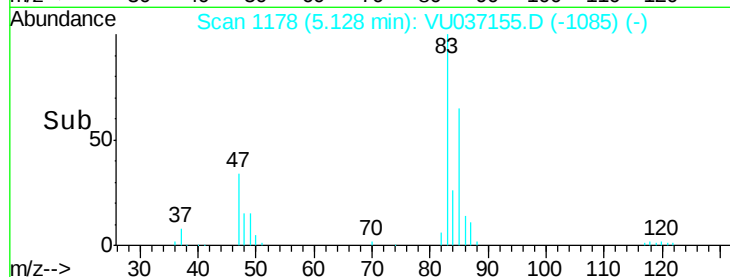
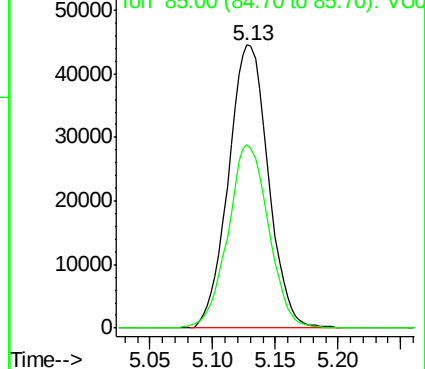
Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1



Abundance Ion 83.05 (82.75 to 83.75): VU037155.D (-1164) (-)



#27

1,2-Dichloroethane

Concen: 5.699 ug/L

RT: 5.83 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VU037155.D

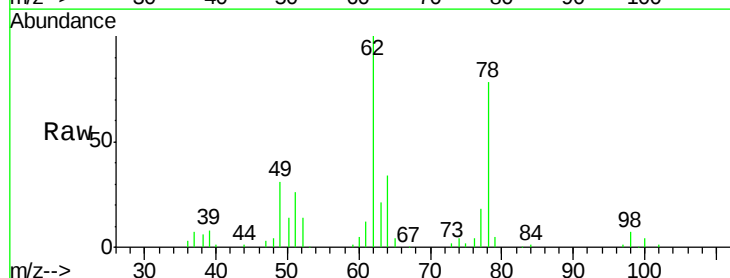
Acq: 10 Mar 2020 16:42

Tgt Ion: 62 Resp: 67134

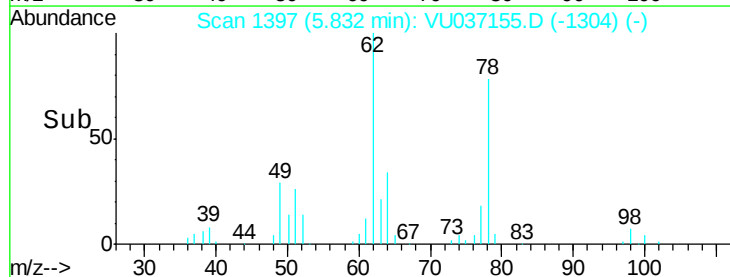
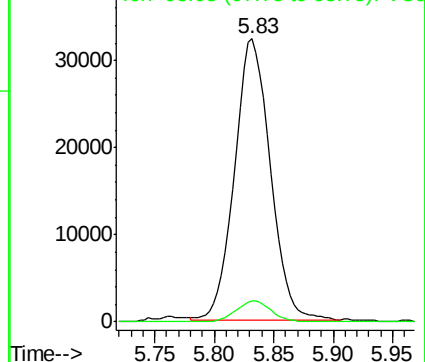
Ion Ratio Lower Upper

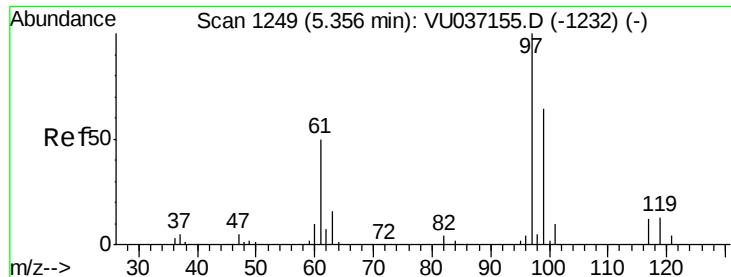
62 100

98 7.4 5.9 8.9



Abundance Ion 62.00 (61.70 to 62.70): VU037155.D (-1381) (-)

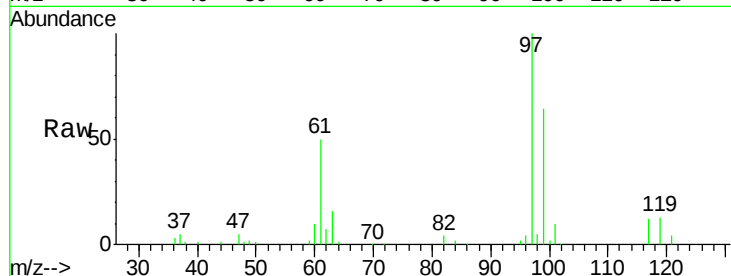




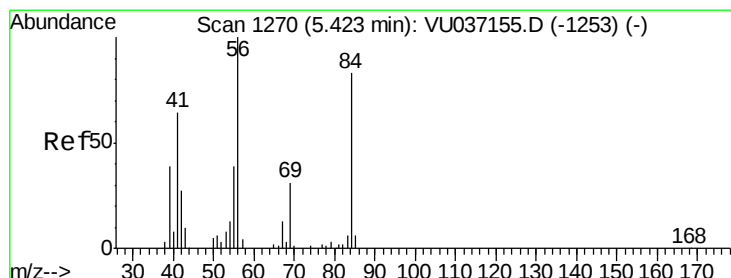
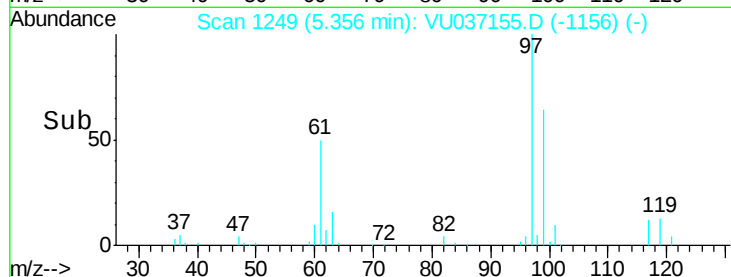
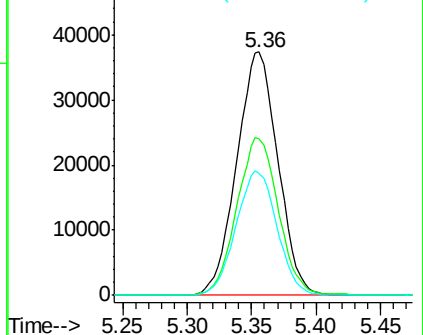
#29
 1,1,1-Trichloroethane
 Concen: 5.790 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

Tgt Ion: 97 Resp: 82964
 Ion Ratio Lower Upper
 97 100
 99 65.5 52.4 78.6
 61 50.8 40.6 61.0

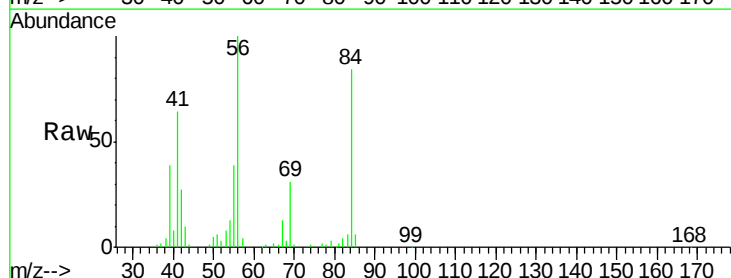


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

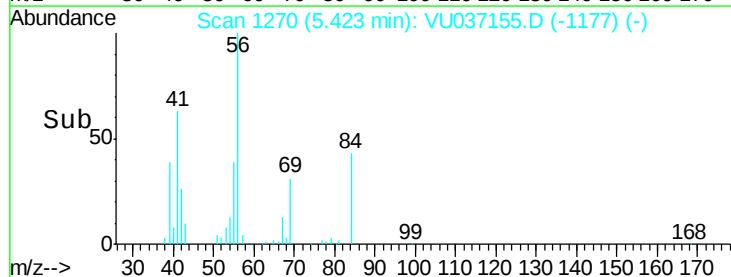
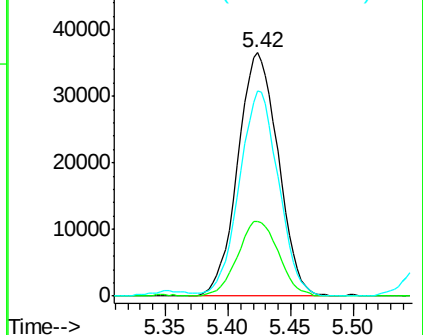


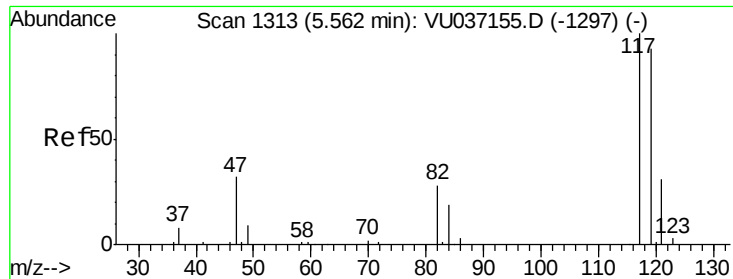
#30
 Cyclohexane
 Concen: 5.462 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion: 56 Resp: 81749
 Ion Ratio Lower Upper
 56 100
 69 31.3 25.0 37.6
 84 81.8 65.4 98.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 6.110 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

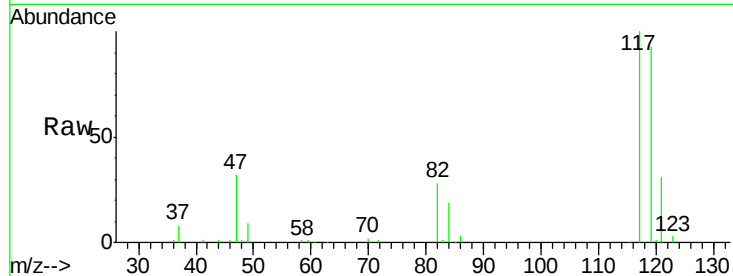
VSTD00501

Tgt Ion:117 Resp: 71644

Ion Ratio Lower Upper

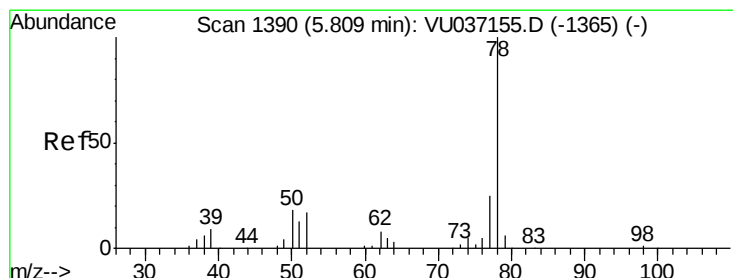
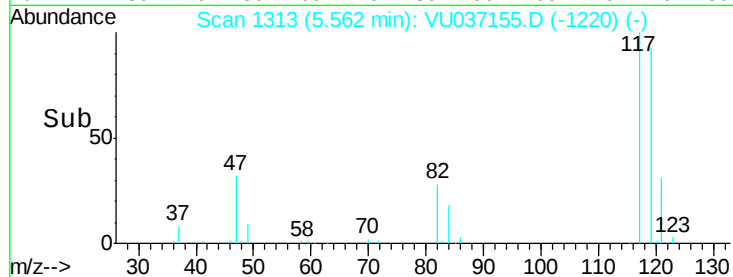
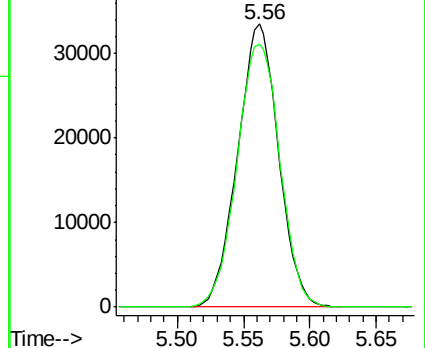
117 100

119 97.8 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.083 ug/L

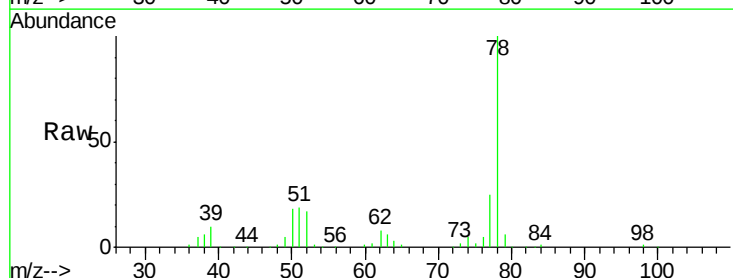
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

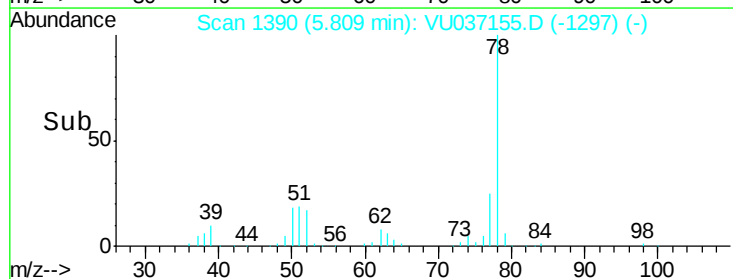
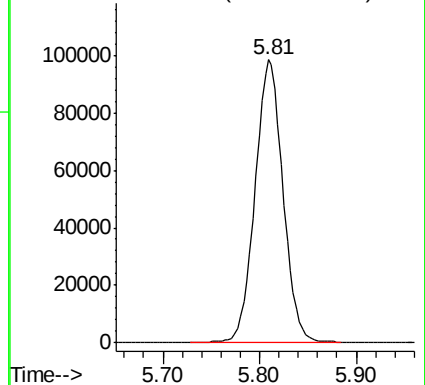
Lab File: VU037155.D

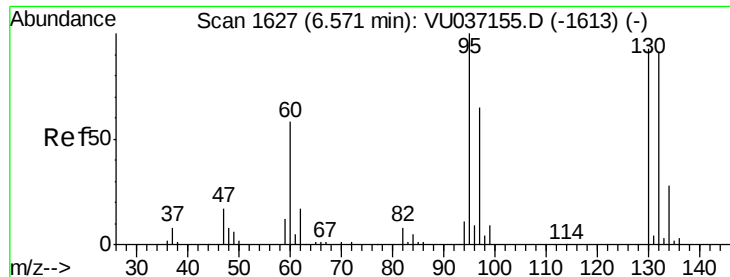
Acq: 10 Mar 2020 16:42

Tgt Ion: 78 Resp: 197590



Abundance Ion 78.10 (77.80 to 78.80): VU0

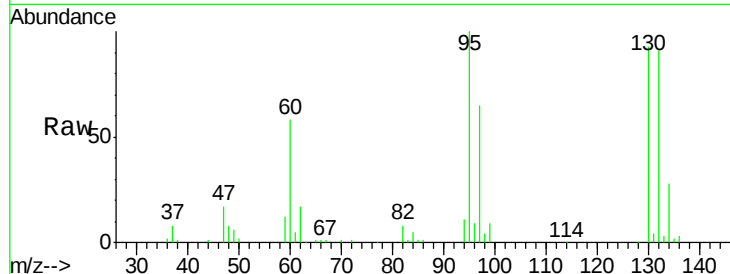




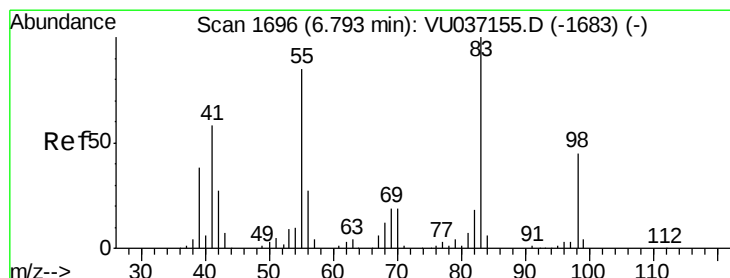
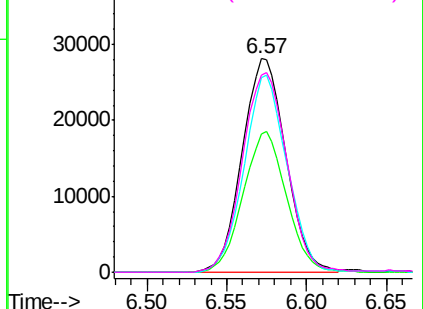
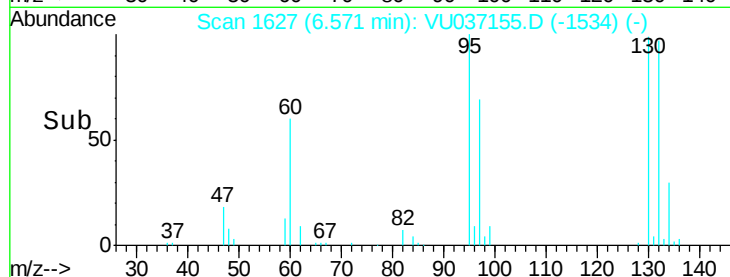
#34
 Trichloroethene
 Concen: 5.248 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

Tgt Ion: 95 Resp: 52404
 Ion Ratio Lower Upper
 95 100
 97 64.9 45.4 84.4
 132 91.0 63.7 118.3
 130 92.6 64.8 120.4

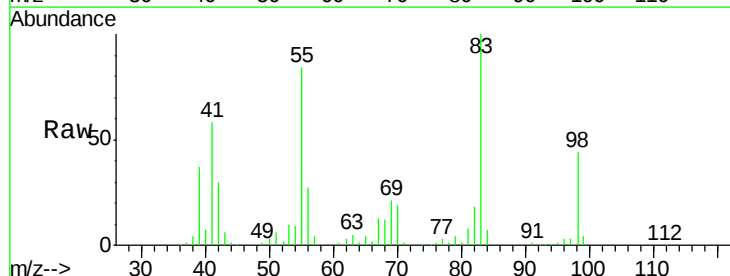


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

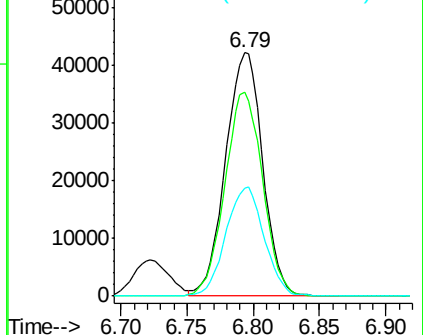
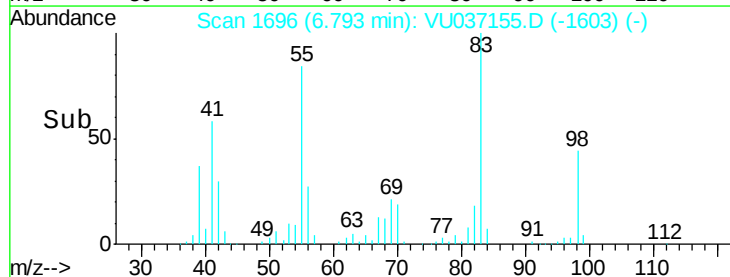


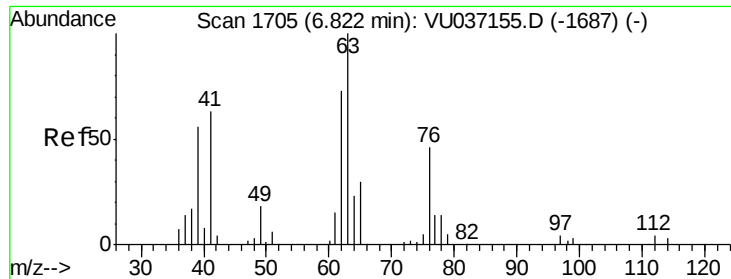
#35
 Methylcyclohexane
 Concen: 5.227 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion: 83 Resp: 82254
 Ion Ratio Lower Upper
 83 100
 55 85.1 68.1 102.1
 98 46.2 37.0 55.4



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

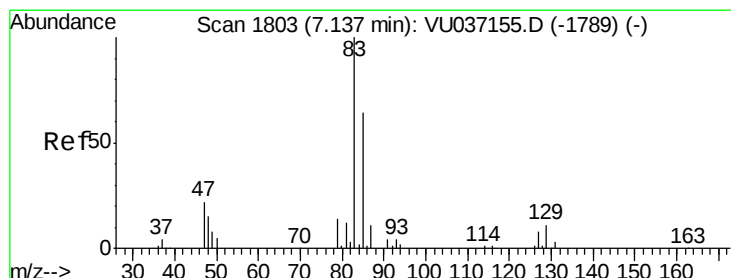
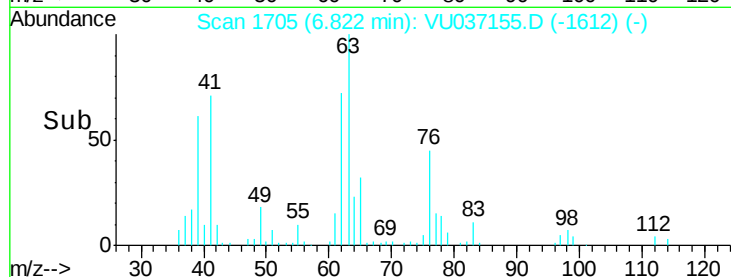
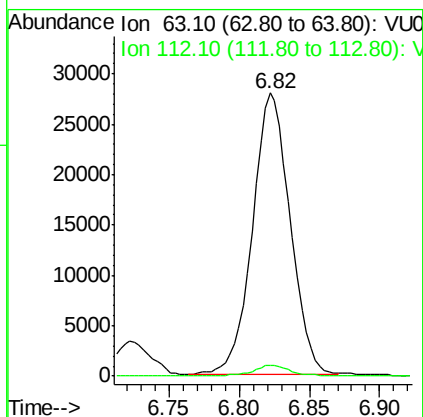
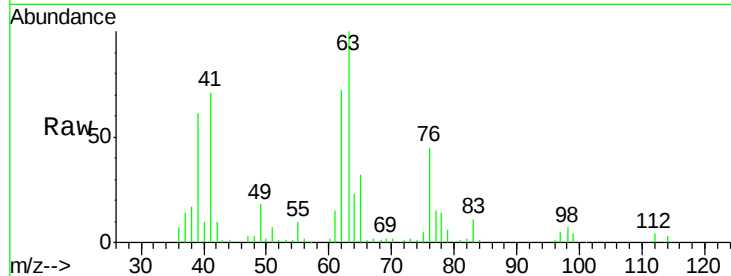




#37
 1,2-Dichloropropane
 Concen: 4.974 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

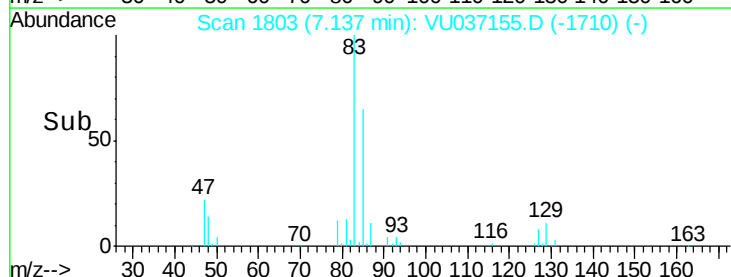
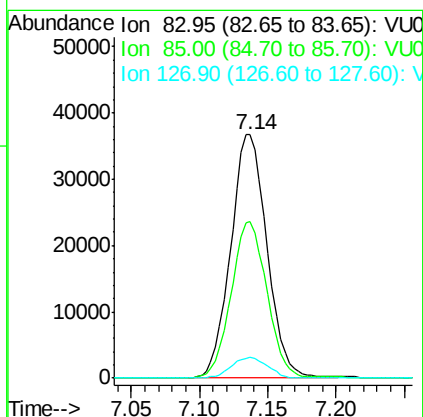
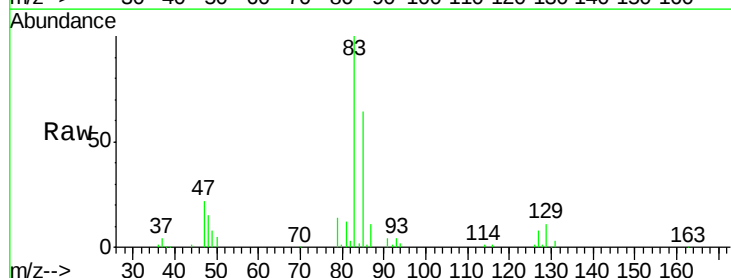
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

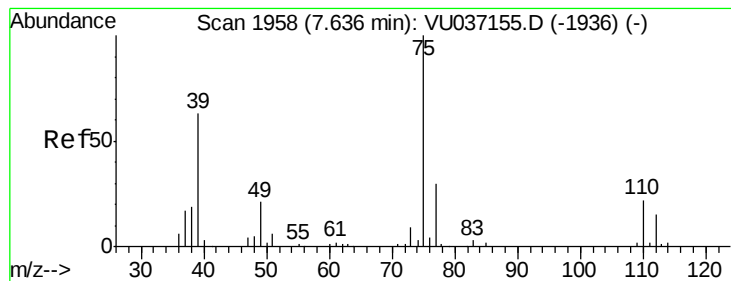
Tgt Ion: 63 Resp: 52281
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 5.309 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion: 83 Resp: 67899
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.1 83.7
 127 8.4 6.7 10.1



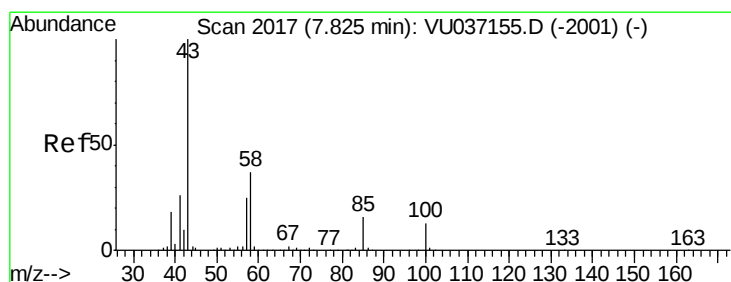
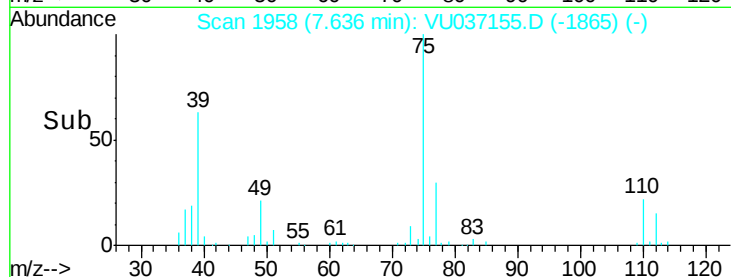
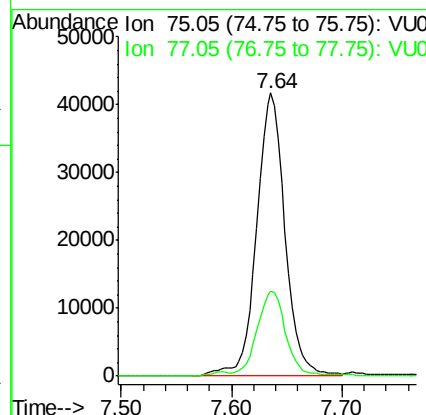
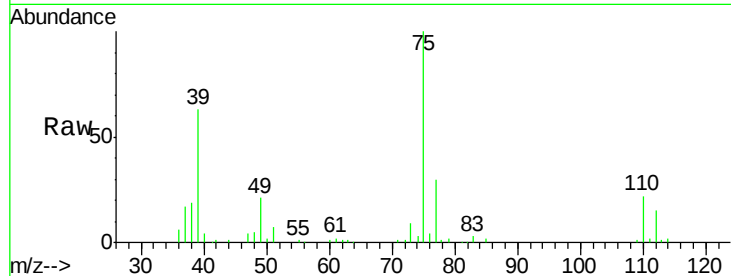


#39

cis-1,3-Dichloropropene
 Concen: 4.931 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

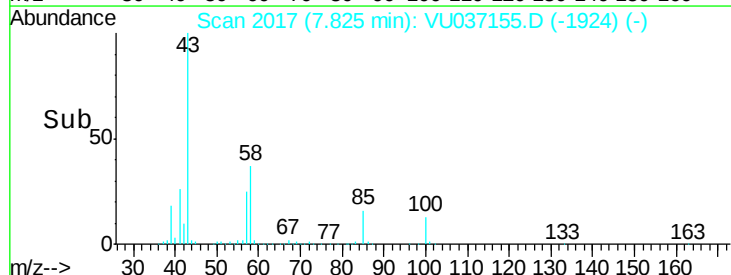
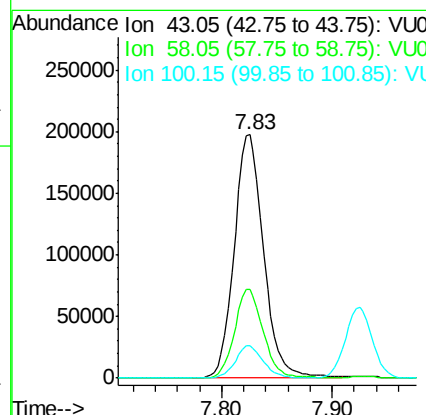
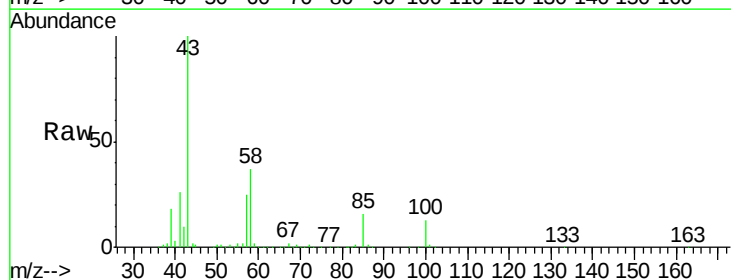
Tgt Ion: 75 Resp: 74569
 Ion Ratio Lower Upper
 75 100
 77 30.1 21.1 39.1

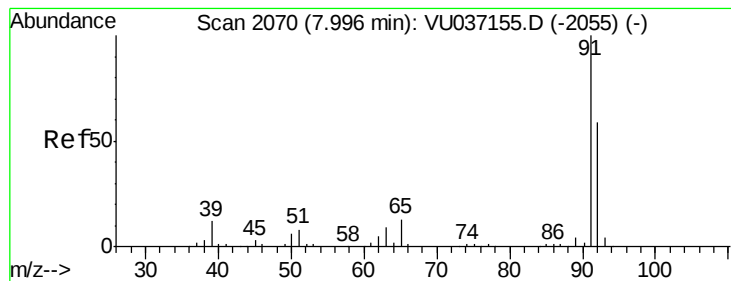


#40

4-Methyl-2-pentanone
 Concen: 53.081 ug/L
 RT: 7.83 min Scan# 2017
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion: 43 Resp: 365242
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.6 42.8
 100 12.7 10.2 15.2





#42

Toluene

Concen: 5.162 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

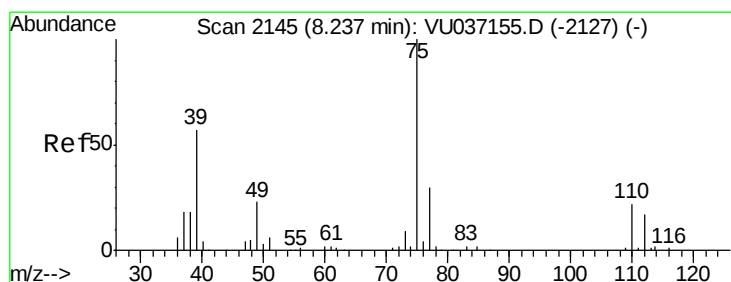
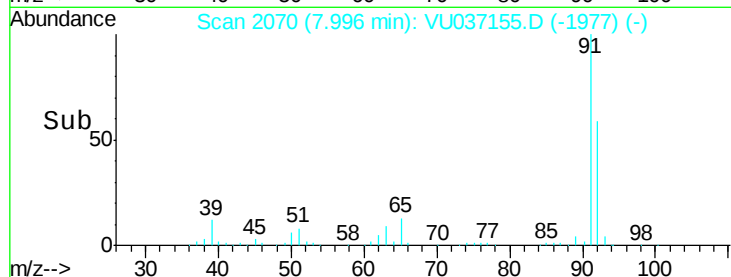
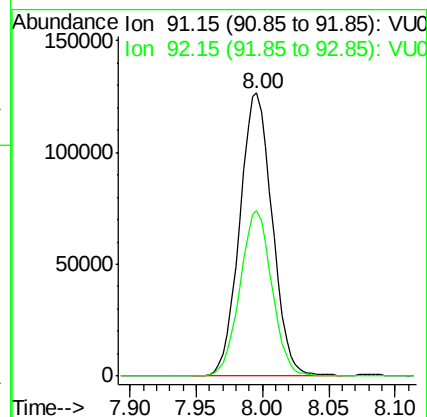
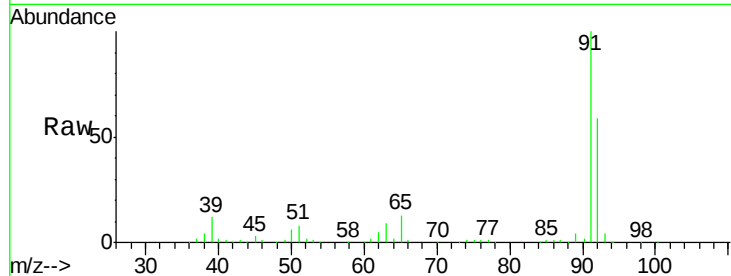
VSTD00501

Tgt Ion: 91 Resp: 216199

Ion Ratio Lower Upper

91 100

92 58.6 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 5.225 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037155.D

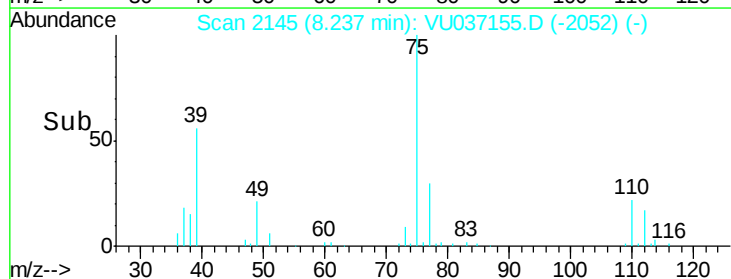
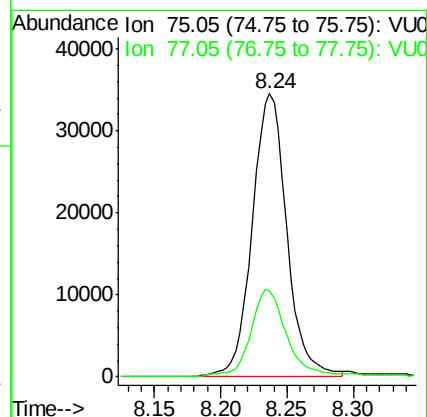
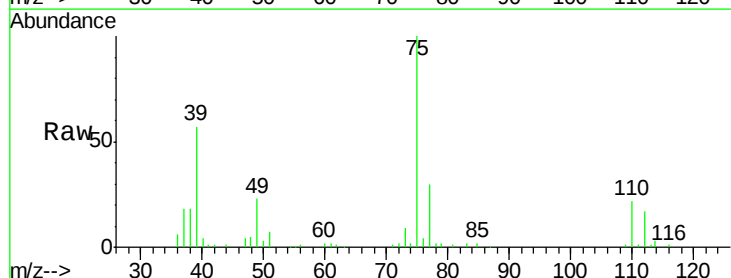
Acq: 10 Mar 2020 16:42

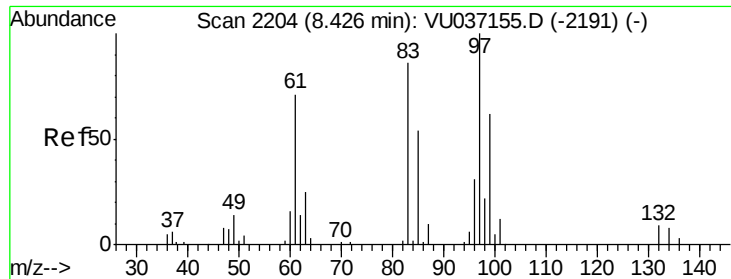
Tgt Ion: 75 Resp: 62654

Ion Ratio Lower Upper

75 100

77 30.3 21.2 39.4

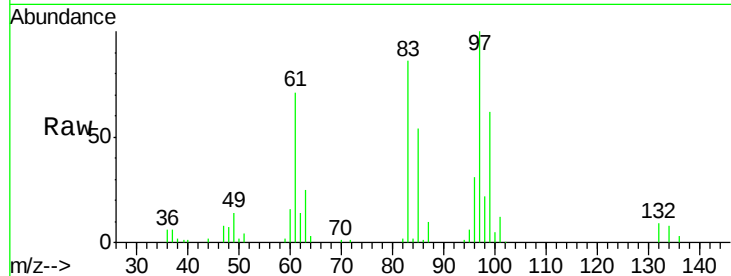




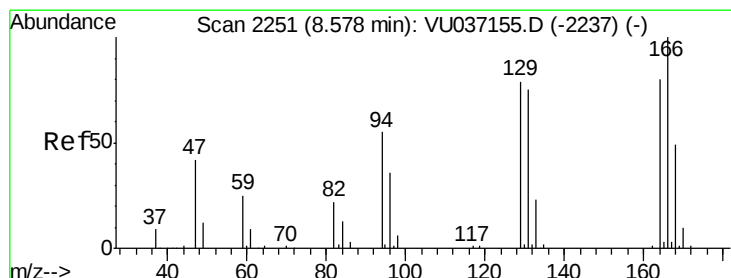
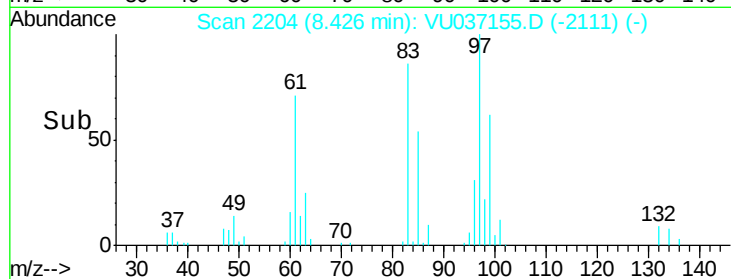
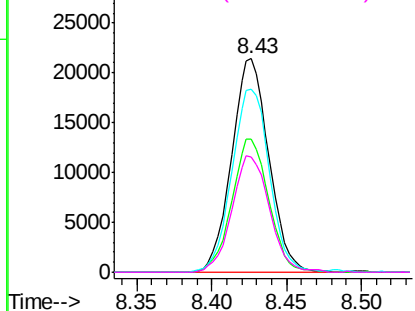
#45
 1,1,2-Trichloroethane
 Concen: 5.046 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

Tgt Ion: 97 Resp: 37142
 Ion Ratio Lower Upper
 97 100
 99 62.3 43.6 81.0
 83 85.9 60.1 111.7
 85 54.0 37.8 70.2

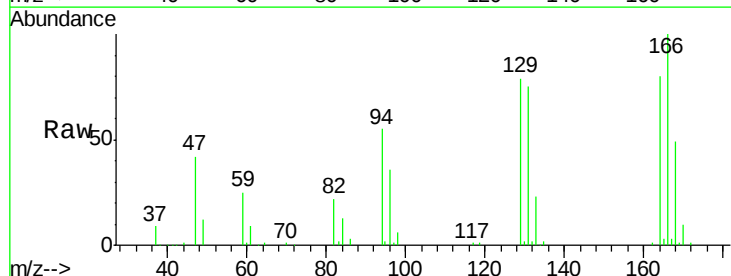


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

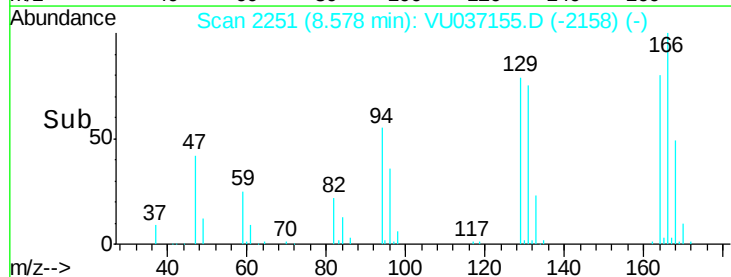
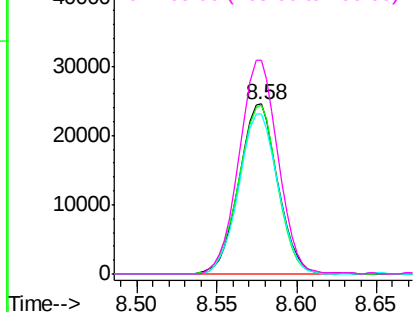


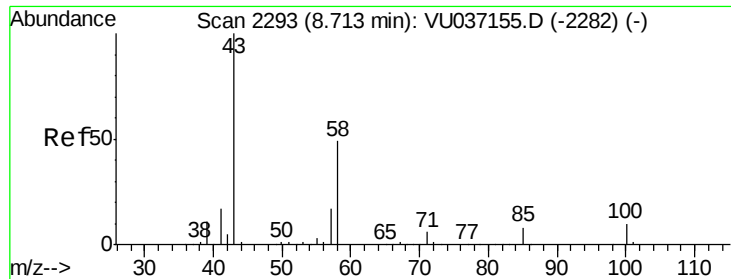
#47
 Tetrachloroethene
 Concen: 5.783 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion: 164 Resp: 40456
 Ion Ratio Lower Upper
 164 100
 129 99.7 69.8 129.6
 131 94.5 66.1 122.8
 166 125.8 88.1 163.5



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

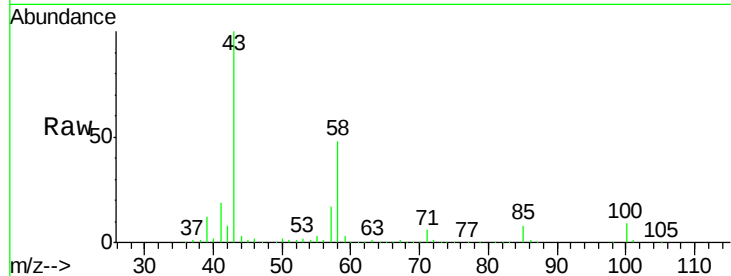




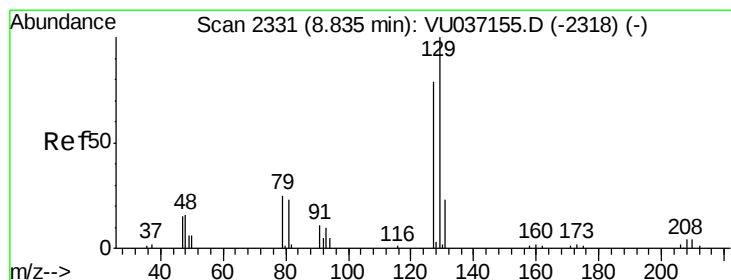
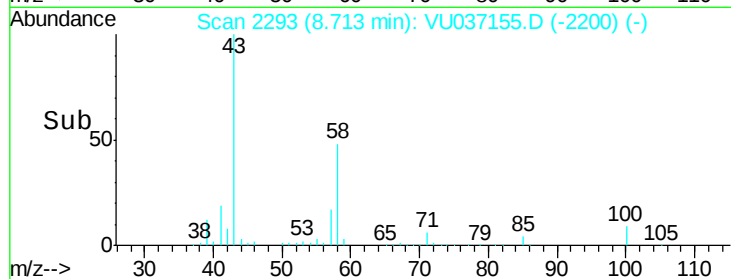
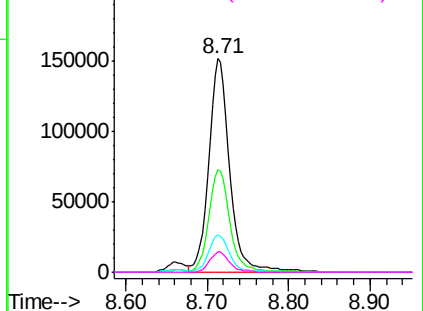
#48
2-Hexanone
Concen: 47.813 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

Tgt Ion: 43 Resp: 272892
Ion Ratio Lower Upper
43 100
58 48.3 38.6 58.0
57 17.0 13.6 20.4
100 9.3 7.4 11.2

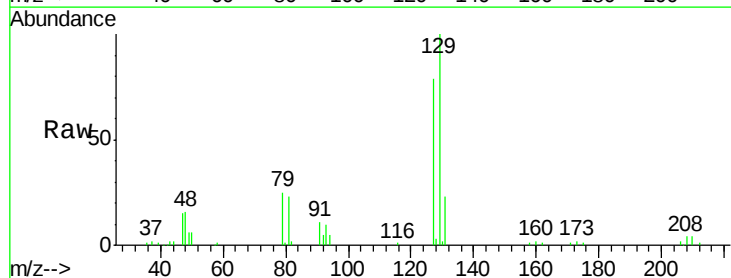


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

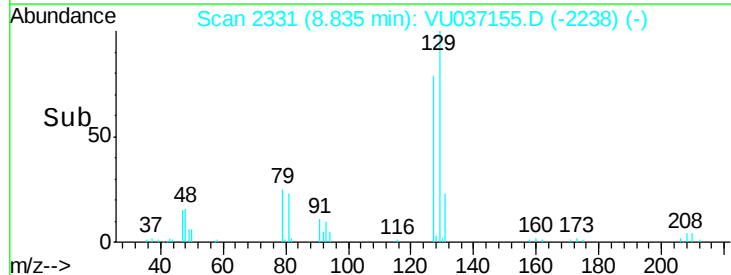
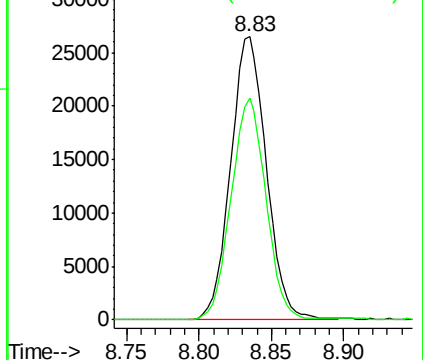


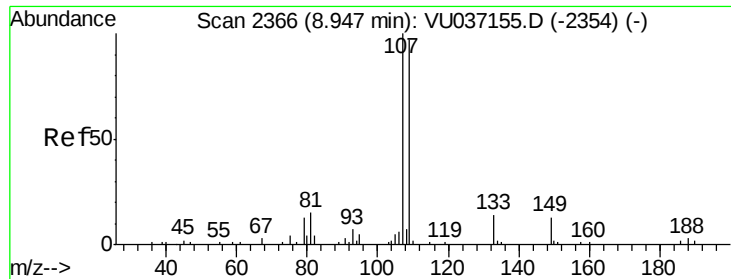
#49
Dibromochloromethane
Concen: 5.781 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Tgt Ion: 129 Resp: 45407
Ion Ratio Lower Upper
129 100
127 78.5 54.9 102.1



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

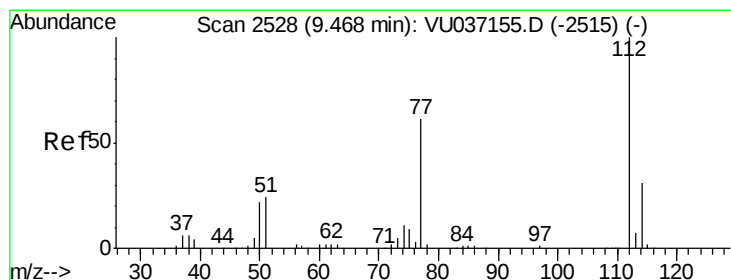
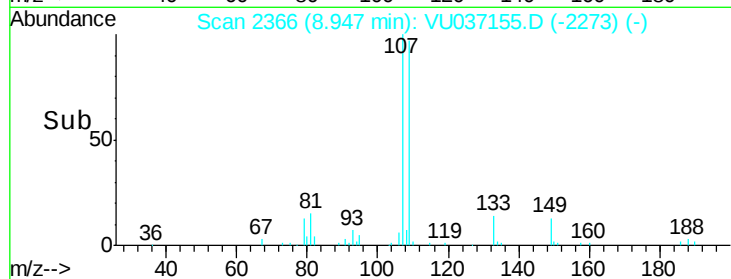
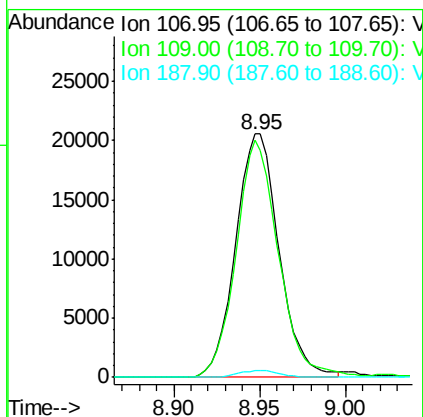
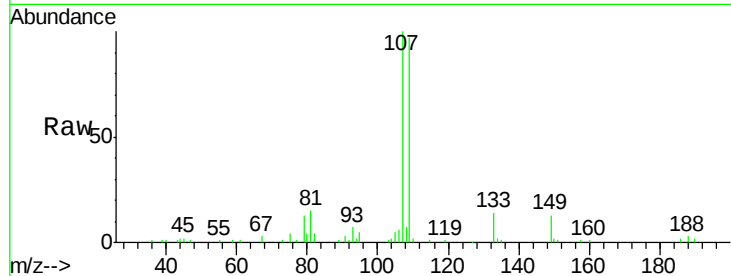




#50
1,2-Dibromoethane
Concen: 5.357 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

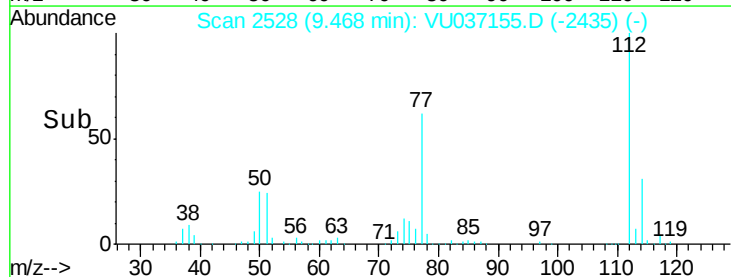
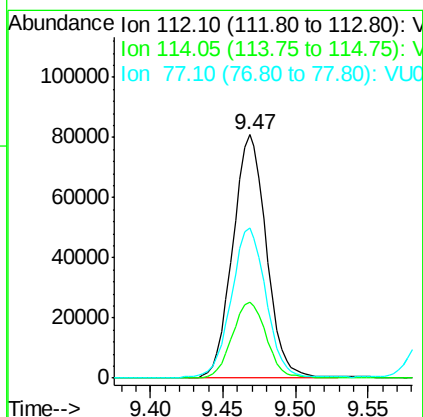
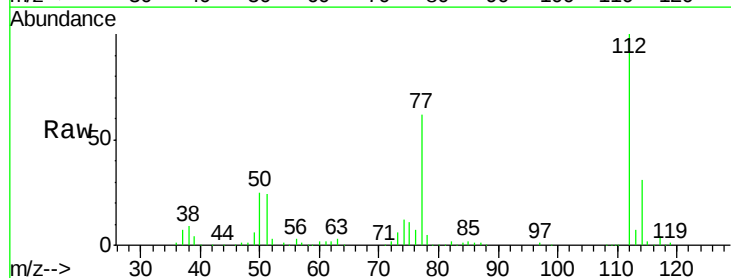
Instrument :
MSVOA_U
ClientSampleId :
VSTD00501

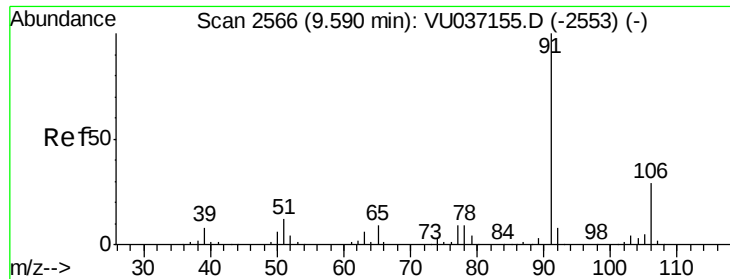
Tgt Ion:107 Resp: 36125
Ion Ratio Lower Upper
107 100
109 97.4 68.2 126.6
188 2.5 2.0 3.0



#51
Chlorobenzene
Concen: 5.060 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037155.D
Acq: 10 Mar 2020 16:42

Tgt Ion:112 Resp: 130661
Ion Ratio Lower Upper
112 100
114 31.4 22.0 40.8
77 61.8 49.4 74.2





#52

Ethylbenzene

Concen: 5.110 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

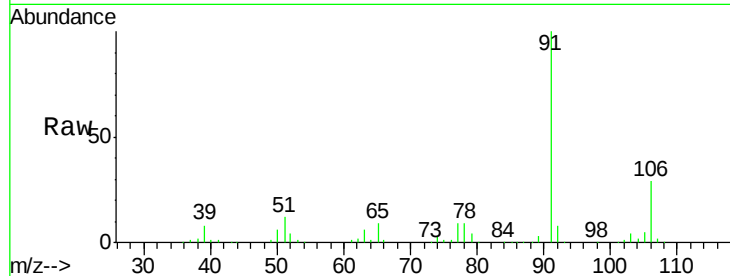
VSTD00501

Tgt Ion: 91 Resp: 238358

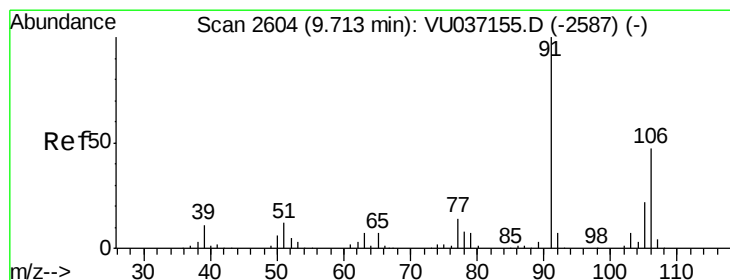
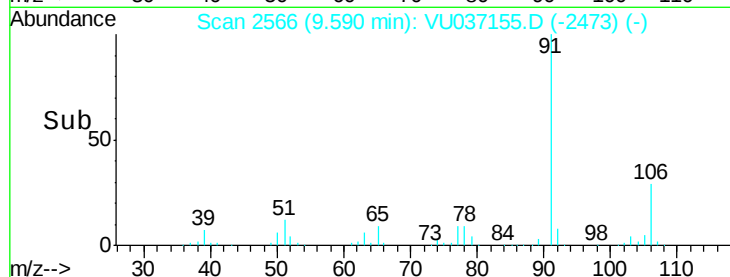
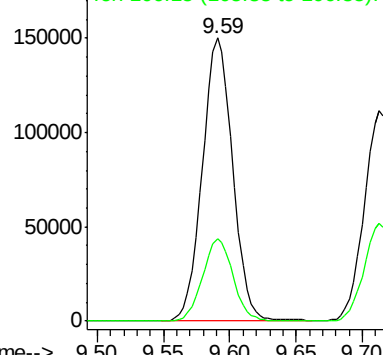
Ion Ratio Lower Upper

91 100

106 29.1 20.4 37.8



Abundance Ion 91.15 (90.85 to 91.85): VU037155.D (-2553) (-)



#53

m,p-Xylene

Concen: 5.132 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037155.D

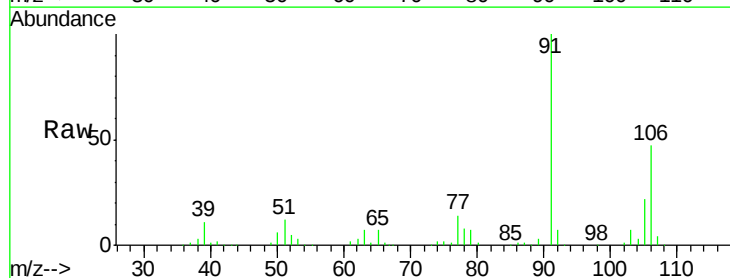
Acq: 10 Mar 2020 16:42

Tgt Ion: 106 Resp: 87818

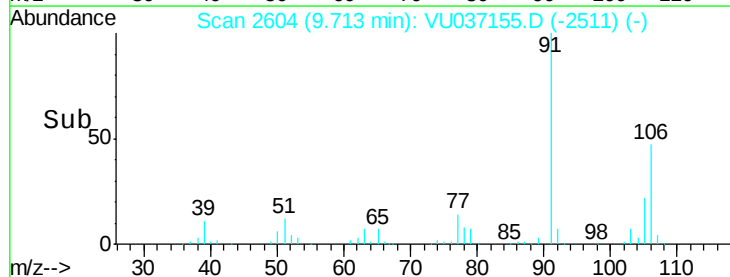
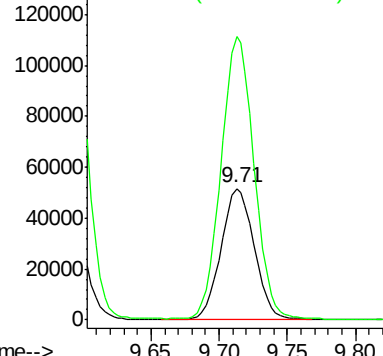
Ion Ratio Lower Upper

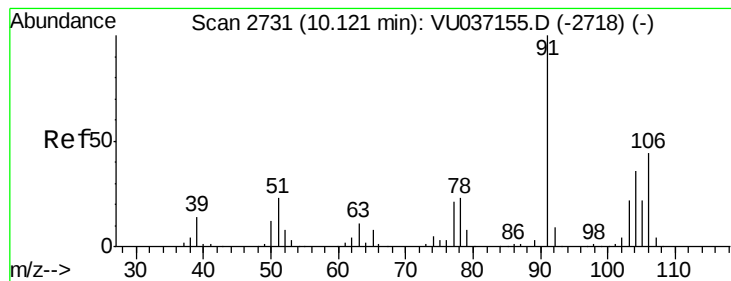
106 100

91 214.9 150.4 279.4



Abundance Ion 106.15 (105.85 to 106.85): VU037155.D (-2587) (-)





#54

o-Xylene

Concen: 5.007 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

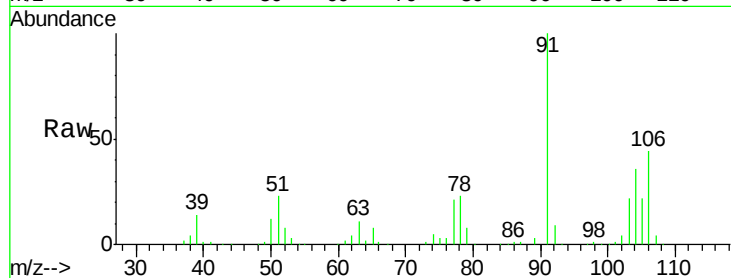
VSTD00501

Tgt Ion:106 Resp: 83430

Ion Ratio Lower Upper

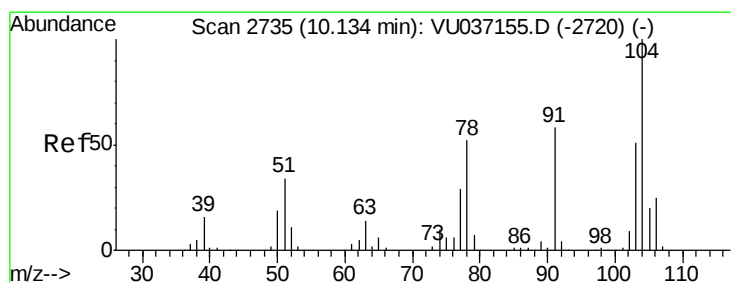
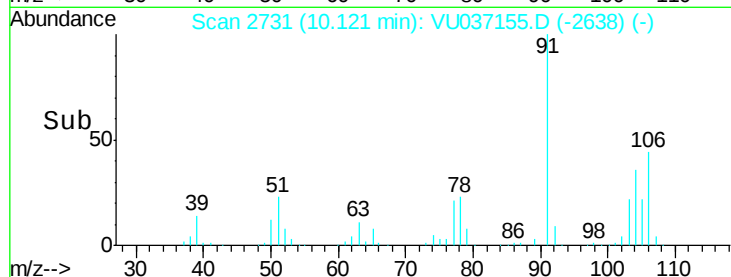
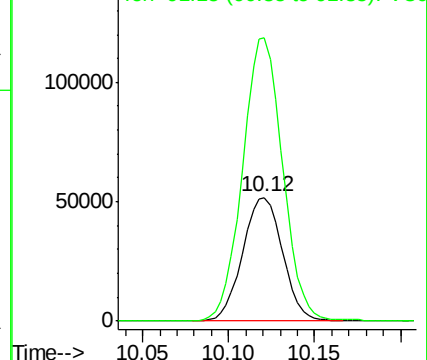
106 100

91 229.4 160.6 298.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.968 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037155.D

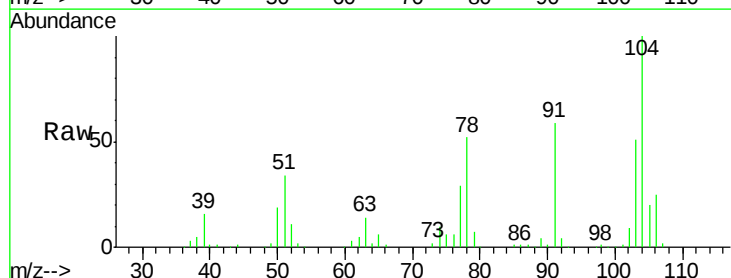
Acq: 10 Mar 2020 16:42

Tgt Ion:104 Resp: 139780

Ion Ratio Lower Upper

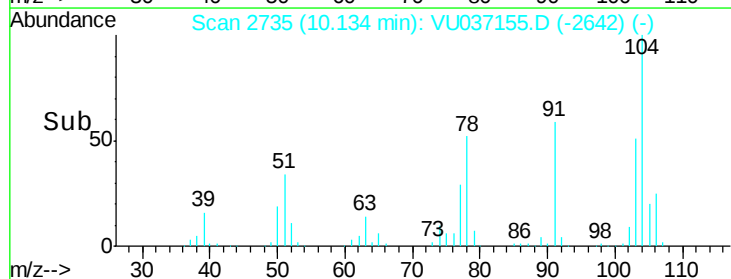
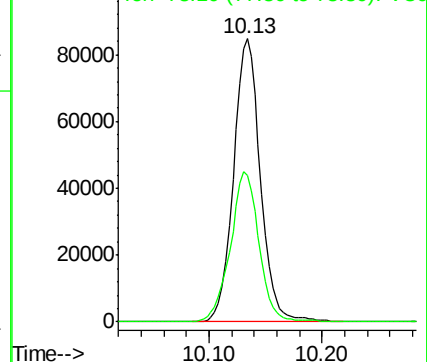
104 100

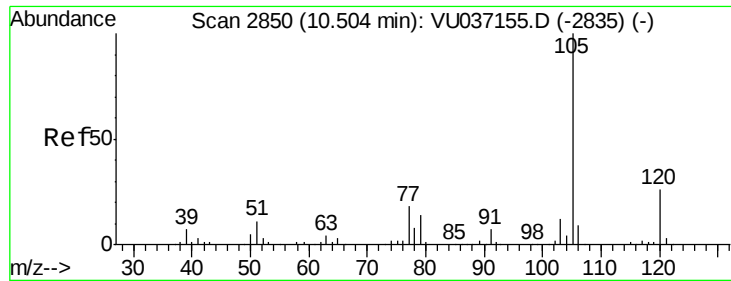
78 51.7 36.2 67.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.046 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

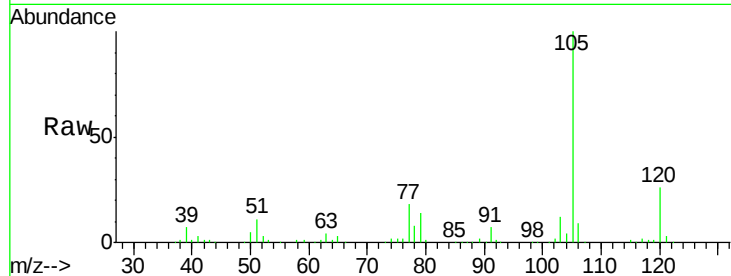
Tgt Ion: 105 Resp: 226191

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

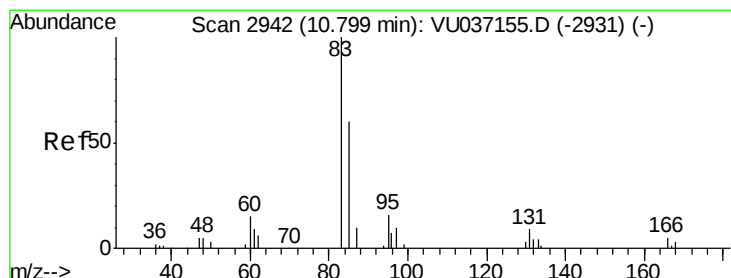
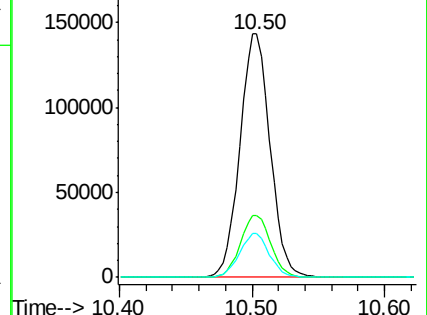
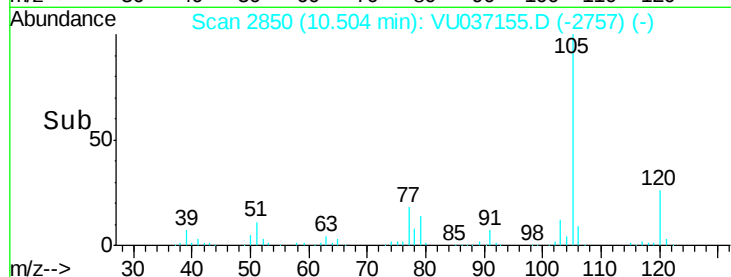
77 17.8 14.2 21.4



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: 4.924 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

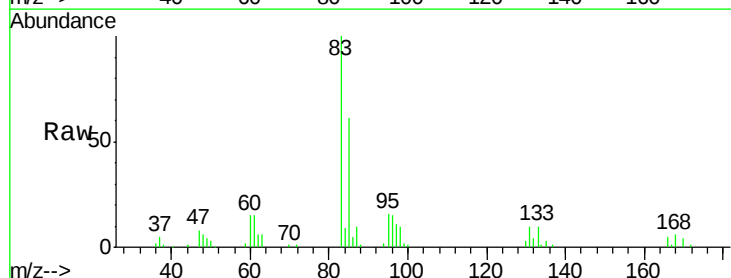
Tgt Ion: 83 Resp: 47094

Ion Ratio Lower Upper

83 100

85 61.5 43.0 80.0

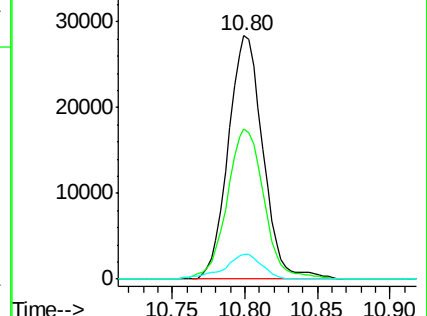
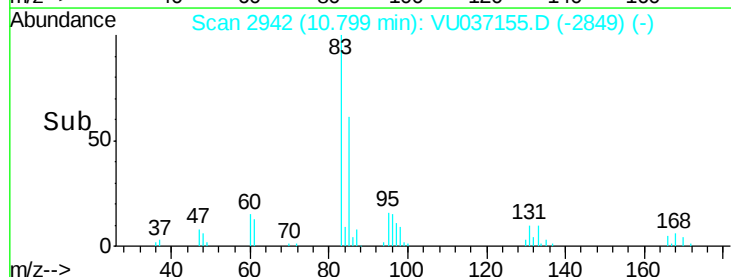
131 10.2 8.2 12.2

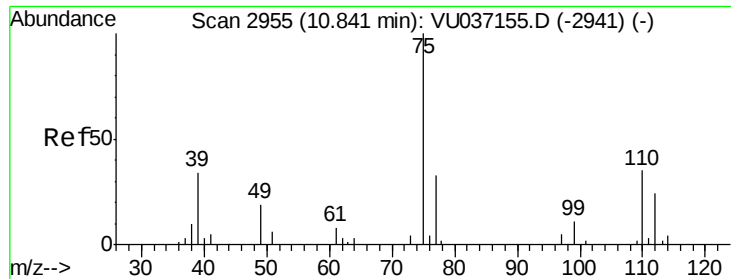


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.109 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

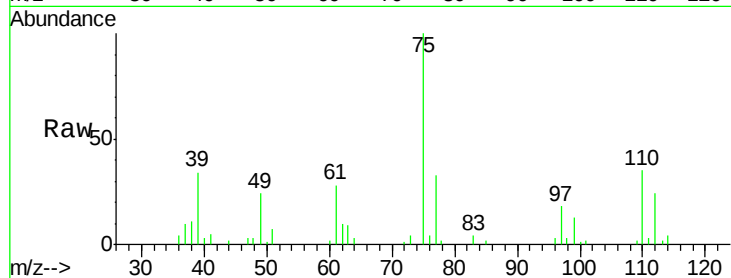
VSTD00501

Tgt Ion: 75 Resp: 35768

Ion Ratio Lower Upper

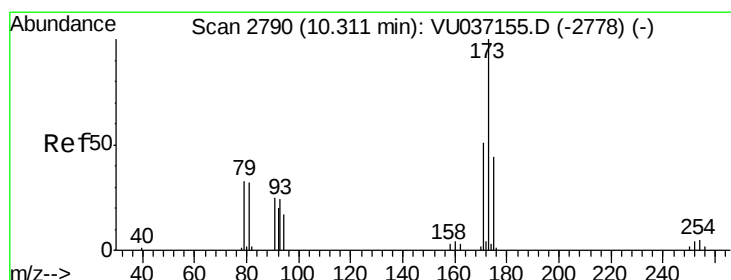
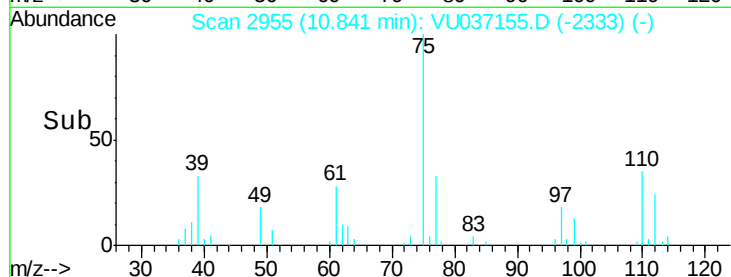
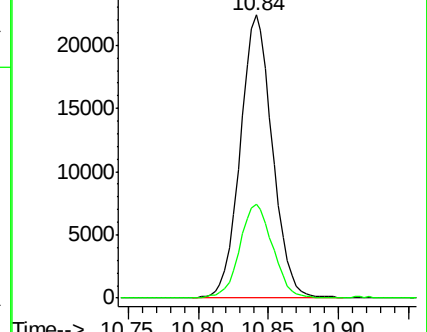
75 100

77 34.2 27.4 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU037155.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU037155.D (-2941) (-)



#61

Bromoform

Concen: 5.560 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

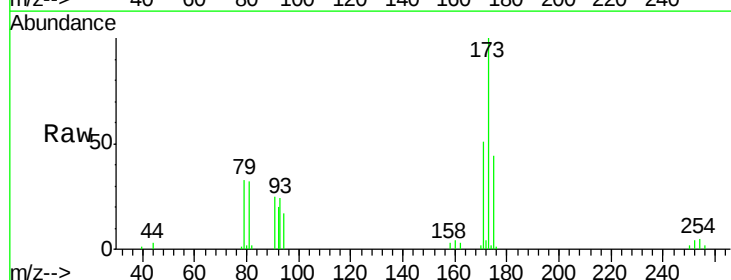
Tgt Ion: 173 Resp: 24648

Ion Ratio Lower Upper

173 100

175 46.8 37.4 56.2

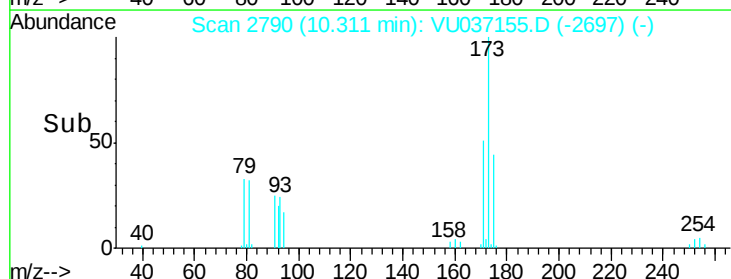
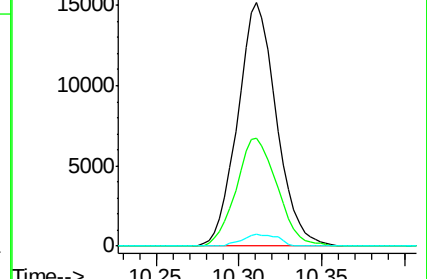
254 4.4 3.5 5.3

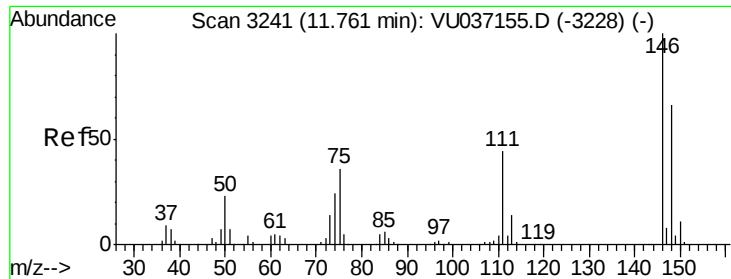


Abundance Ion 172.90 (172.60 to 173.60): VU037155.D (-2778) (-)

Ion 174.90 (174.60 to 175.60): VU037155.D (-2778) (-)

Ion 253.75 (253.45 to 254.45): VU037155.D (-2778) (-)





#62

1,3-Dichlorobenzene

Concen: 4.823 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD00501

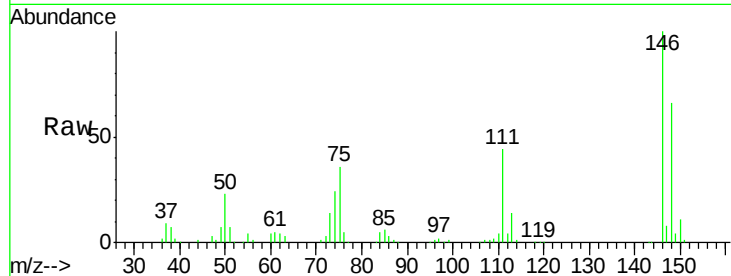
Tgt Ion:146 Resp: 103897

Ion Ratio Lower Upper

146 100

111 43.7 30.6 56.8

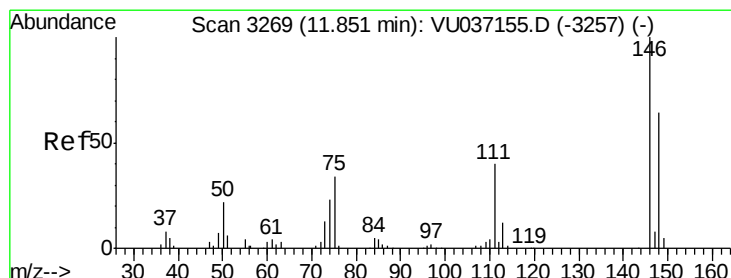
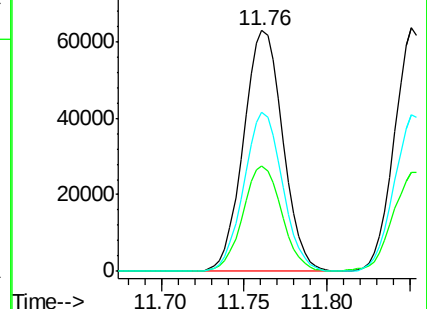
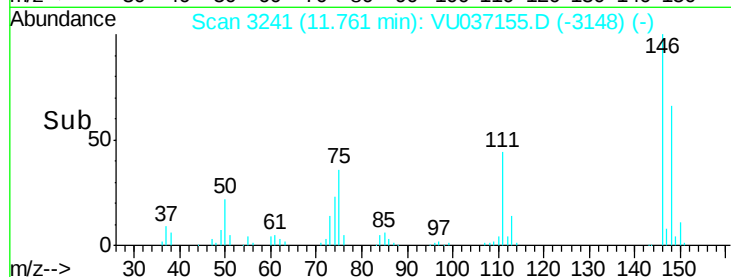
148 66.0 46.2 85.8



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



#63

1,4-Dichlorobenzene

Concen: 4.752 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

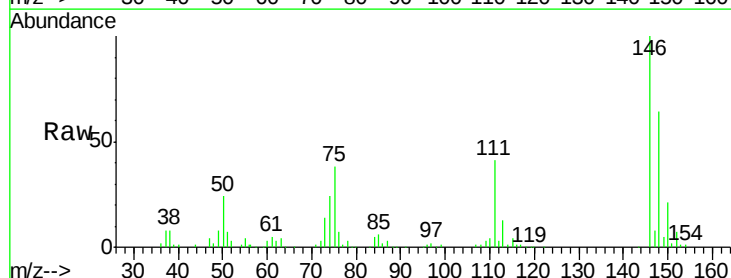
Tgt Ion:146 Resp: 100943

Ion Ratio Lower Upper

146 100

111 40.6 28.4 52.8

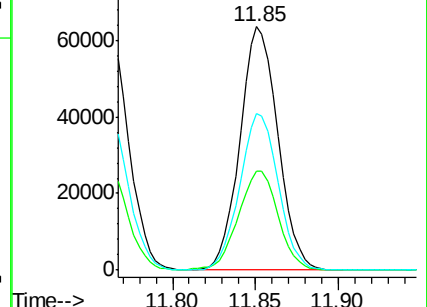
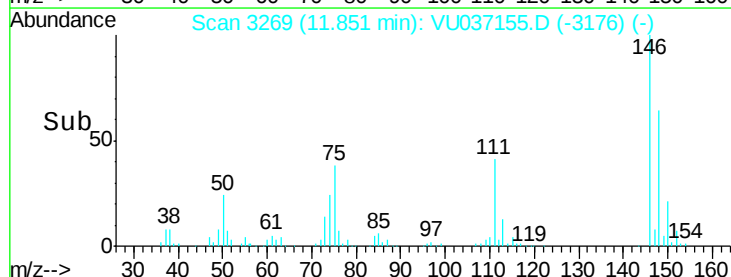
148 64.2 44.9 83.5

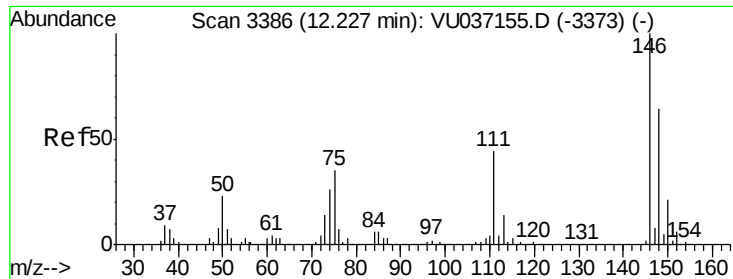


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

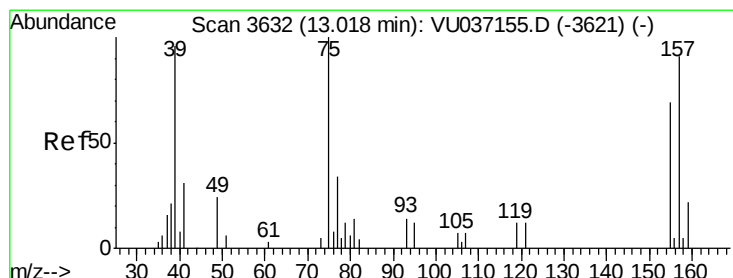
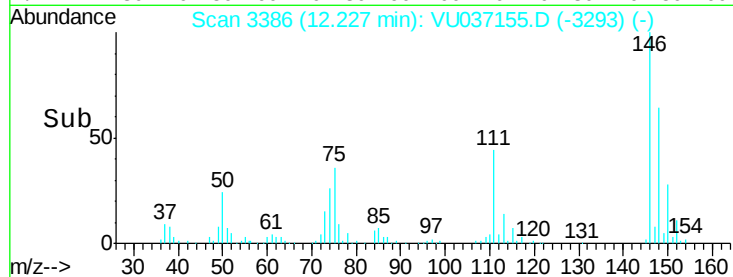
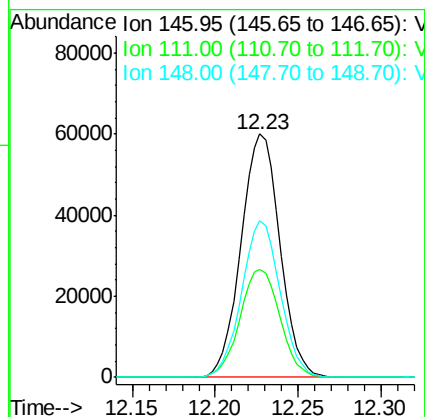
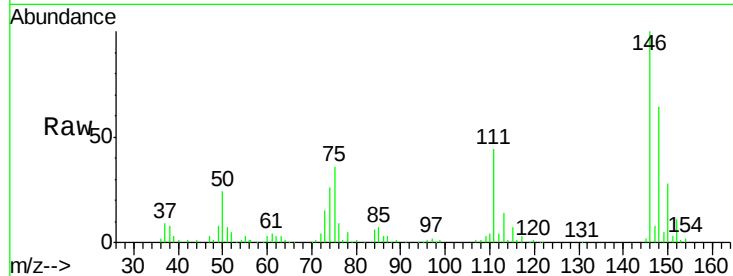




#65
 1,2-Dichlorobenzene
 Concen: 4.754 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

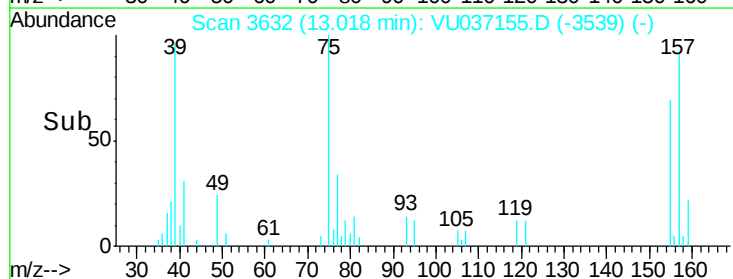
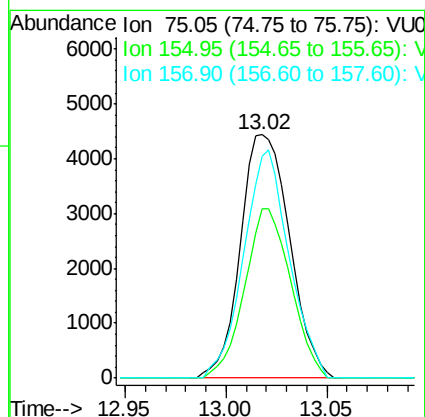
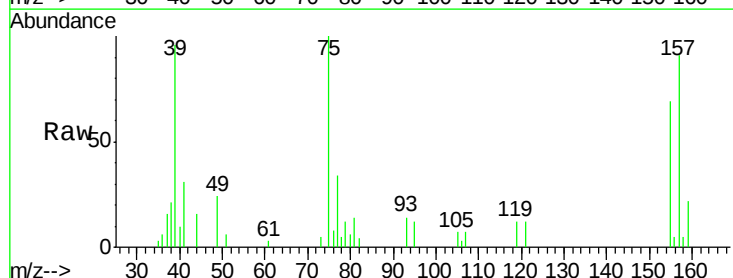
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

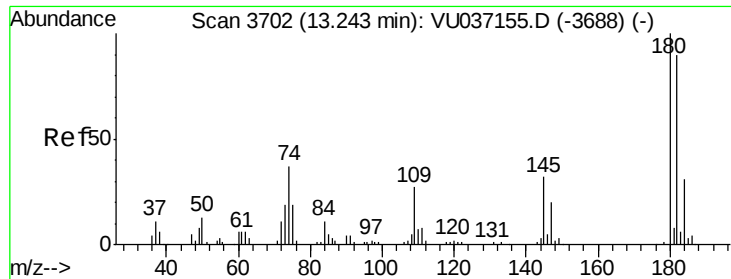
Tgt Ion: 146 Resp: 98125
 Ion Ratio Lower Upper
 146 100
 111 44.4 35.5 53.3
 148 64.3 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.960 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion: 75 Resp: 7601
 Ion Ratio Lower Upper
 75 100
 155 69.4 55.5 83.3
 157 91.4 73.1 109.7

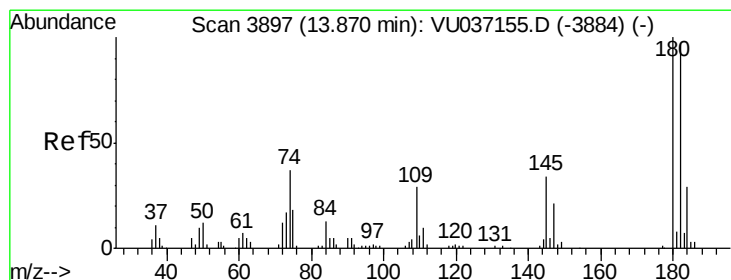
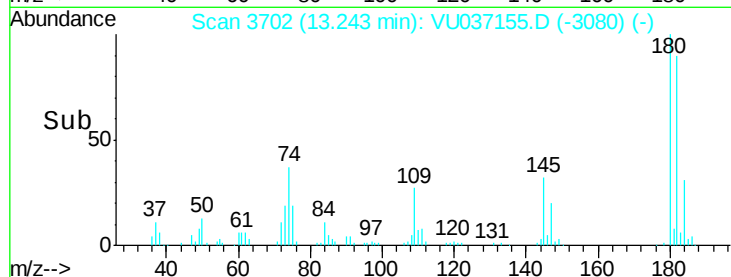
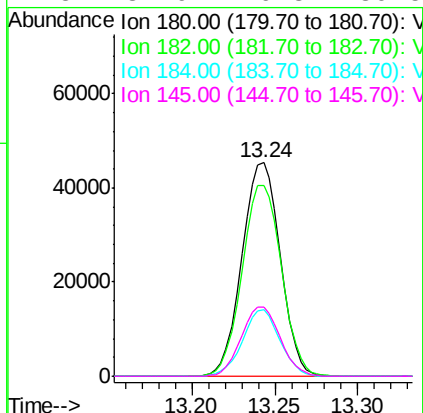
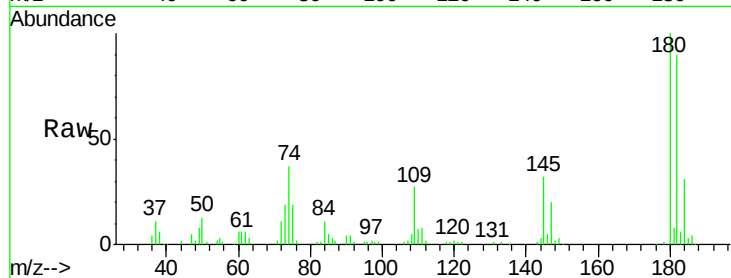




#67
 1,3,5-Trichlorobenzene
 Concen: 4.854 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

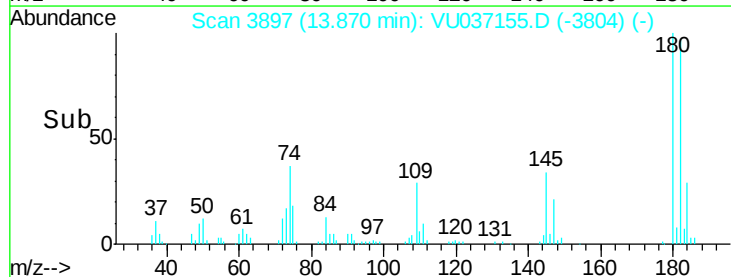
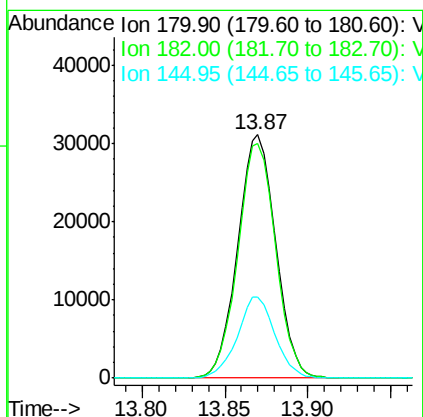
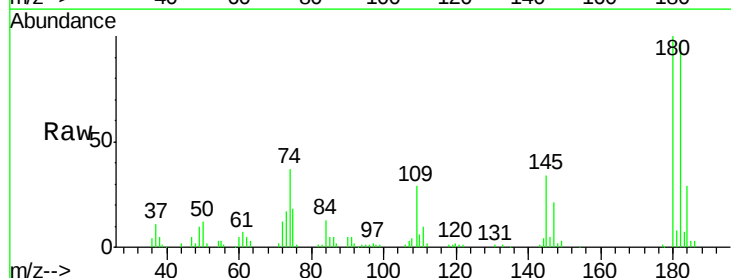
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00501

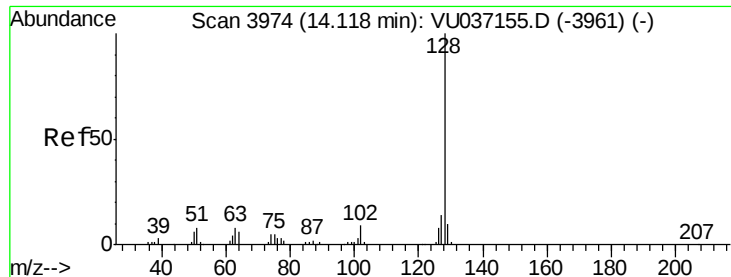
Tgt Ion:180 Resp: 72981
 Ion Ratio Lower Upper
 180 100
 182 92.0 73.6 110.4
 184 30.1 24.1 36.1
 145 32.9 26.3 39.5



#68
 1,2,4-trichlorobenzene
 Concen: 4.467 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU037155.D
 Acq: 10 Mar 2020 16:42

Tgt Ion:180 Resp: 49443
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.7 115.1
 145 33.2 26.6 39.8





#69

Naphthalene

Concen: 3.548 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

Instrument :

MSVOA_U

ClientSampled :

VSTD00501

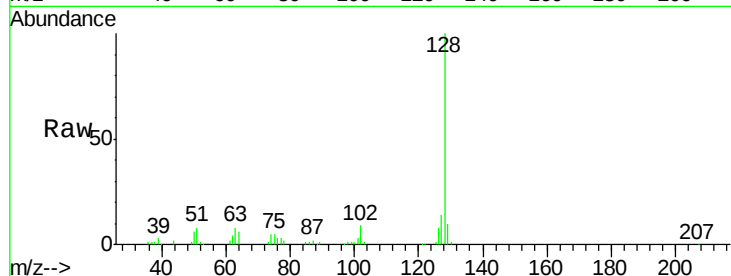
Tgt Ion:128 Resp: 67850

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

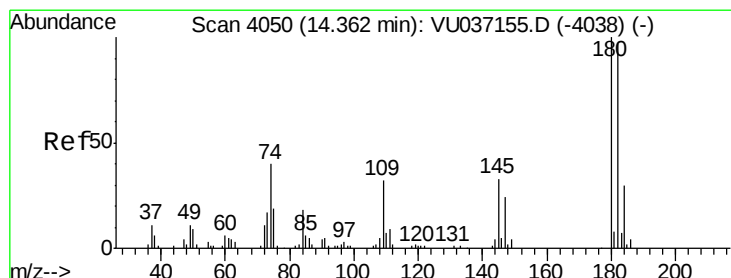
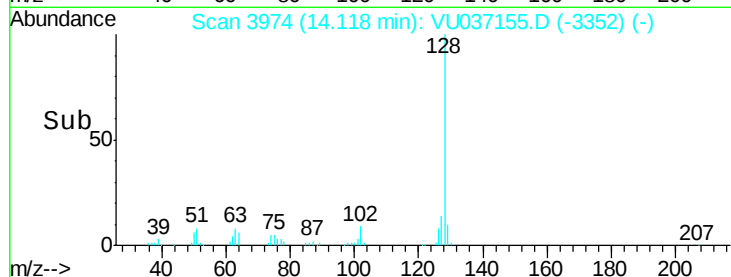
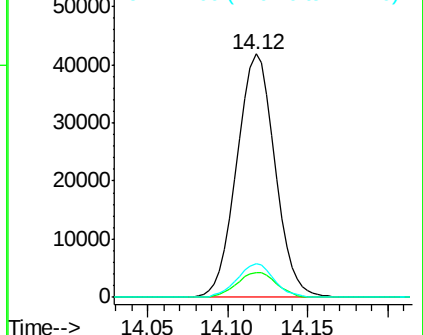
127 13.3 10.6 16.0



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: 4.694 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037155.D

Acq: 10 Mar 2020 16:42

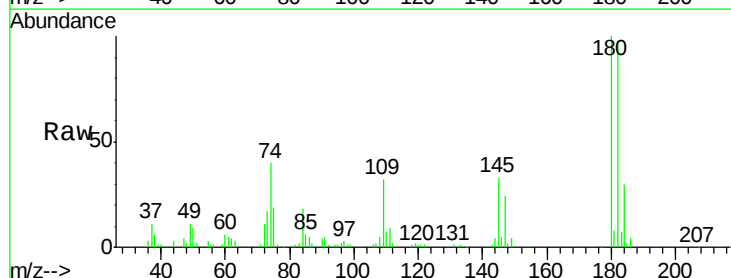
Tgt Ion:180 Resp: 46984

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.6

145 35.3 28.2 42.4



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

