

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\
 Data File : VU037100.D
 Acq On : 06 Mar 2020 11:06
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Quant Time: Mar 06 23:54:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 05 22:35:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	240802	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	231306	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	99623	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	73338	36.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.54%
7) Chloroethane-d5	1.92	69	73932	44.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.38%
11) 1,1-Dichloroethene-d2	2.59	63	145974	43.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.22%
21) 2-Butanone-d5	4.67	46	138482	102.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.09%
24) Chloroform-d	5.10	84	156582	50.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.42%
26) 1,2-Dichloroethane-d4	5.74	65	103760	49.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.30%
32) Benzene-d6	5.76	84	313976	46.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.88%
36) 1,2-Dichloropropane-d6	6.72	67	105810	48.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.66%
41) Toluene-d8	7.92	98	283295	45.65	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.30%
43) trans-1,3-Dichloropropene-	8.20	79	45830	45.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.02%
47) 2-Hexanone-d5	8.66	63	99625	94.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.02%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	158888	52.00	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	92848	47.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.36%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	102506	50.186	ug/L 99
3) Chloromethane	1.53	50	115975	49.354	ug/L 100
5) Vinyl chloride	1.62	62	121734	50.224	ug/L 99
6) Bromomethane	1.85	94	60090	48.320	ug/L 100
8) Chloroethane	1.94	64	74837	51.508	ug/L 99
9) Trichlorofluoromethane	2.15	101	136183	52.976	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	83872	54.542	ug/L 99
12) 1,1-Dichloroethene	2.60	96	79023	50.808	ug/L 86
13) Acetone	2.65	43	154204	110.521	ug/L 99
14) Carbon disulfide	2.82	76	227609	46.253	ug/L 100
15) Methyl Acetate	2.98	43	111310	52.340	ug/L 99
16) Methylene chloride	3.08	84	100427	52.938	ug/L 97
17) trans-1,2-Dichloroethene	3.38	96	83511	49.982	ug/L 99
18) Methyl tert-butyl Ether	3.40	73	285816	52.625	ug/L 100
19) 1,1-Dichloroethane	3.91	63	175040	53.915	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	99816	53.428	ug/L 98
22) 2-Butanone	4.74	43	185367	110.175	ug/L 100

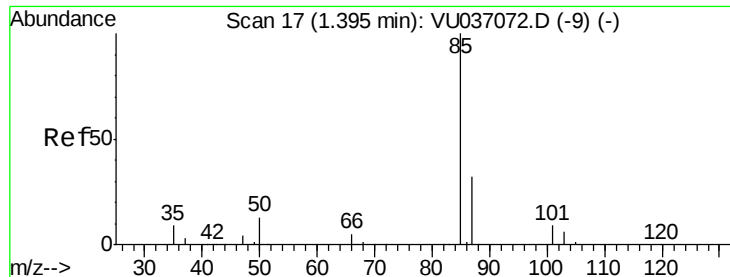
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\
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 Quant Title : VOC Analysis
 QLast Update : Thu Mar 05 22:35:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	45990	54.358	ug/L	96
25) Chloroform	5.13	83	170057	54.288	ug/L	99
27) 1,2-Dichloroethane	5.83	62	139369	54.649	ug/L	100
29) Cyclohexane	5.42	56	152013	49.524	ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	133444	53.809	ug/L	99
31) Carbon tetrachloride	5.56	117	107131	55.114	ug/L	99
33) Benzene	5.81	78	391011	53.510	ug/L	100
34) Trichloroethene	6.57	95	94069	52.376	ug/L	98
35) Methylcyclohexane	6.79	83	159800	51.317	ug/L	99
37) 1,2-Dichloropropane	6.82	63	106793	54.278	ug/L	99
38) Bromodichloromethane	7.14	83	126167	54.325	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	159164	52.515	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	312693	107.856	ug/L	100
42) Toluene	8.00	91	417122	53.580	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	139137	52.921	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	95577	54.627	ug/L	99
46) Tetrachloroethene	8.58	164	61716	52.162	ug/L	99
48) 2-Hexanone	8.71	43	253925	109.756	ug/L	99
49) Dibromochloromethane	8.83	129	91425	55.052	ug/L	100
50) 1,2-Dibromoethane	8.95	107	97733	53.417	ug/L	99
51) Chlorobenzene	9.47	112	247573	53.670	ug/L	99
52) Ethylbenzene	9.59	91	447388	53.011	ug/L	100
53) m,p-Xylene	9.71	106	165851	53.574	ug/L	96
54) o-xylene	10.12	106	166053	53.780	ug/L	100
55) Styrene	10.13	104	277280	54.936	ug/L	99
56) Isopropylbenzene	10.50	105	425747	53.686	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	176953	56.571	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	141261	55.810	ug/L	99
61) Bromoform	10.31	173	62336	55.345	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	175263	54.231	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	173136	54.225	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	175797	54.480	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	33721	52.675	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	112286	54.738	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	77760	50.596	ug/L	99
69) Naphthalene	14.12	128	111420	41.069	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	75288	49.022	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.186 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

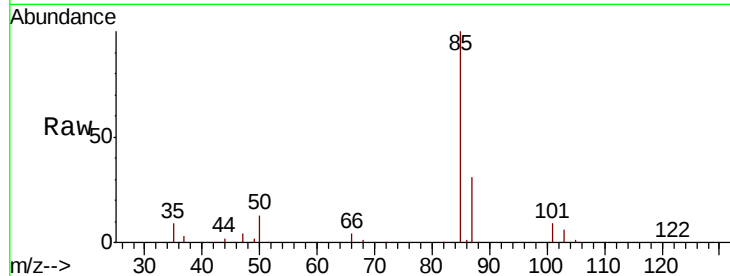
VSTD05050

Tot Ion: 85 Resp: 102506

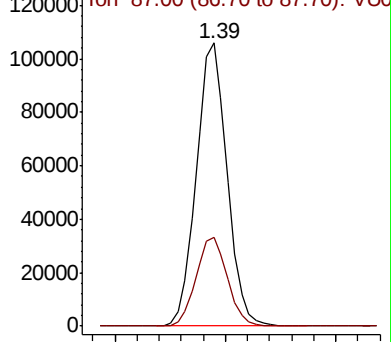
Ion Ratio Lower Upper

85 100

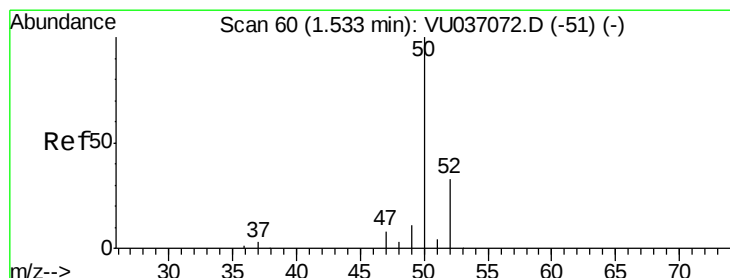
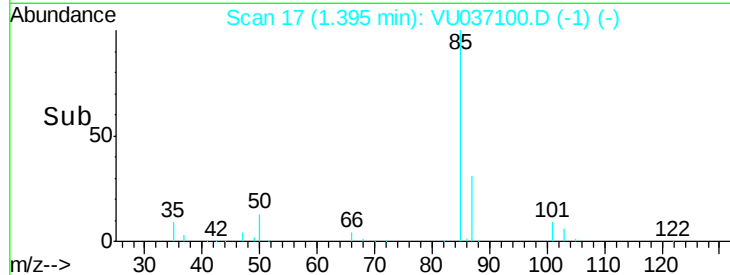
87 31.8 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU037100.D (-1) (-)



Time-->



#3

Chloromethane

Concen: 49.354 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037100.D

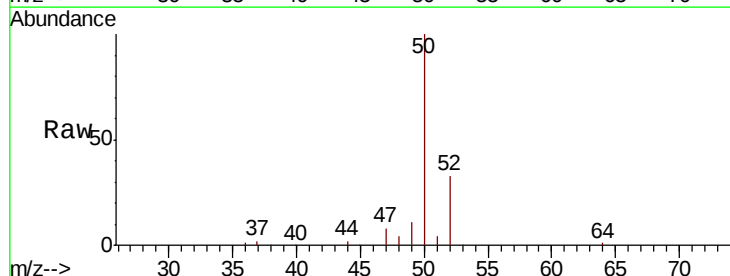
Acq: 06 Mar 2020 11:06

Tgt Ion: 50 Resp: 115975

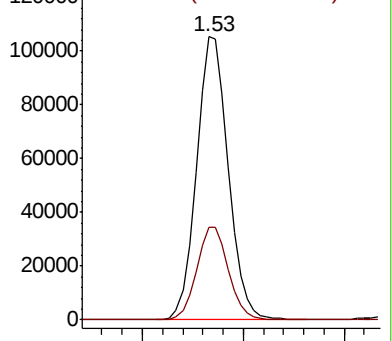
Ion Ratio Lower Upper

50 100

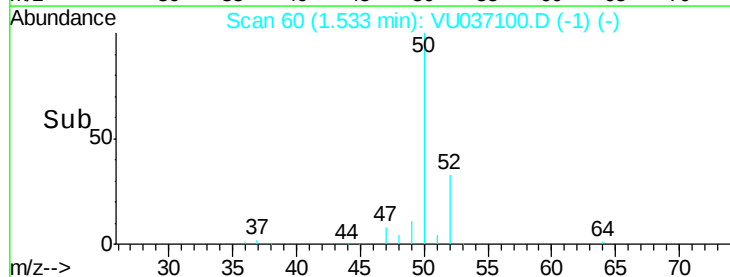
52 32.8 23.0 42.6

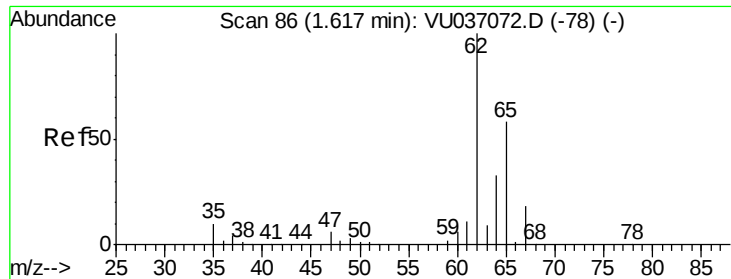


Abundance Ion 50.00 (49.70 to 50.70): VU037100.D (-1) (-)



Time-->





#5

Vinyl chloride

Concen: 50.224 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

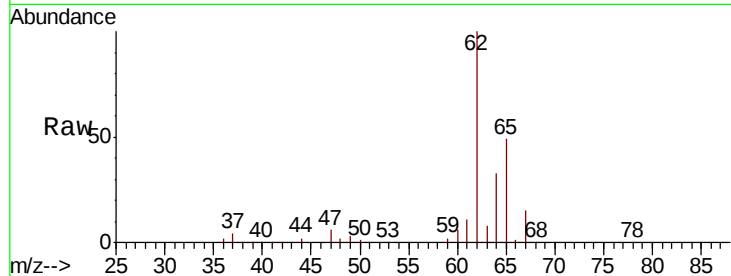
VSTD05050

Tot Ion: 62 Resp: 121734

Ion Ratio Lower Upper

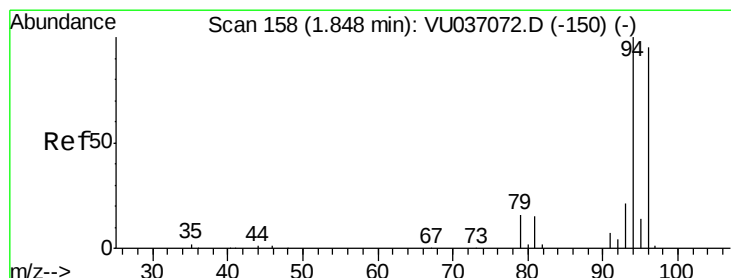
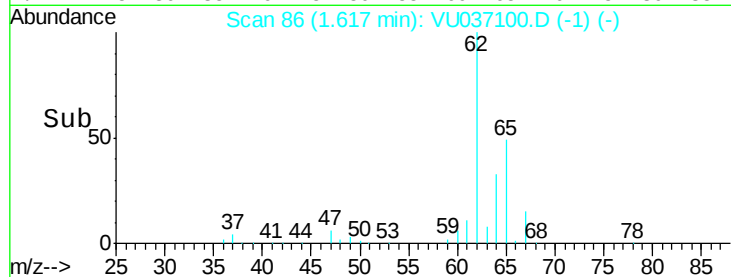
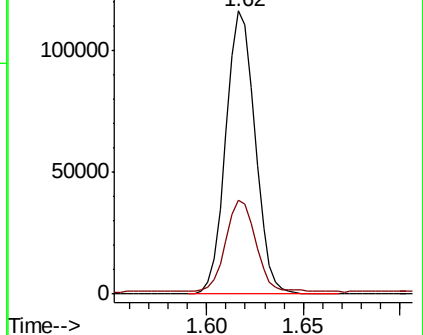
62 100

64 33.4 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU037100.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU037100.D (-1) (-)



#6

Bromomethane

Concen: 48.320 ug/L

RT: 1.85 min Scan# 159

Delta R.T. 0.00 min

Lab File: VU037100.D

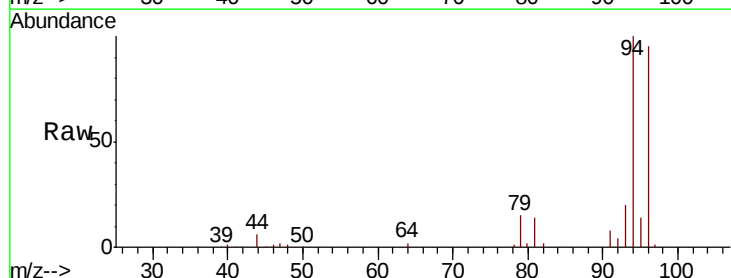
Acq: 06 Mar 2020 11:06

Tgt Ion: 94 Resp: 60090

Ion Ratio Lower Upper

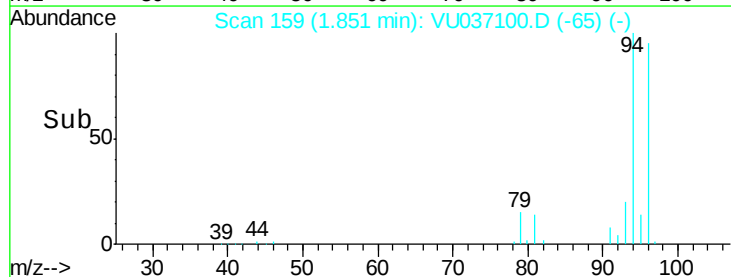
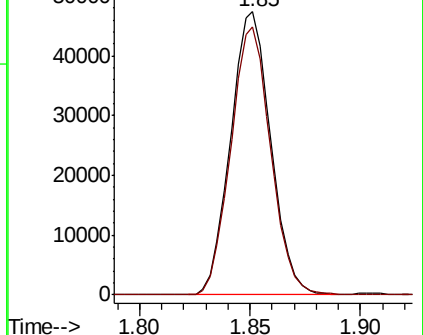
94 100

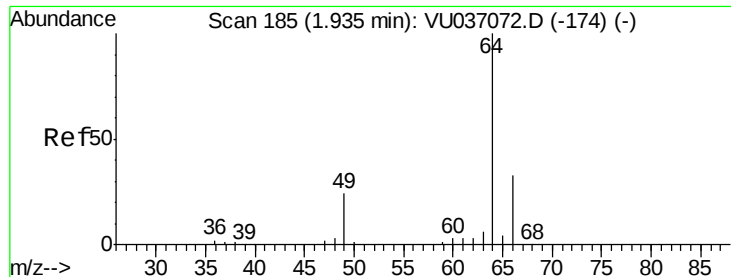
96 94.8 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU037100.D (-65) (-)

Ion 96.00 (95.70 to 96.70): VU037100.D (-65) (-)

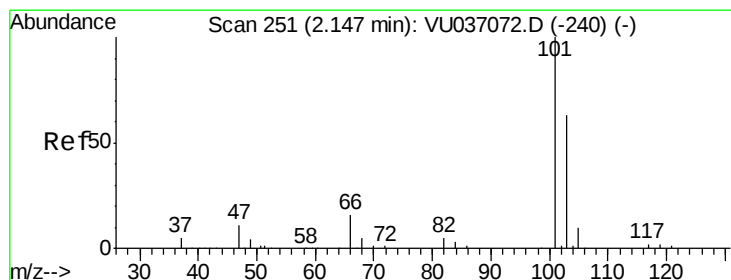
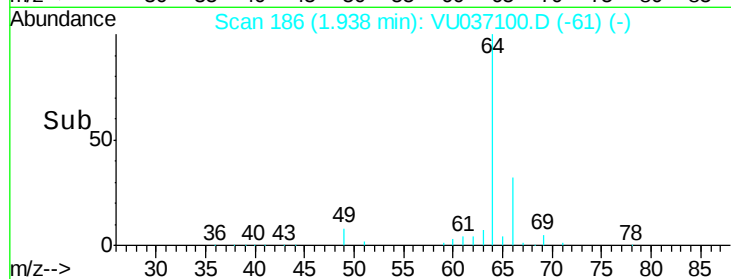
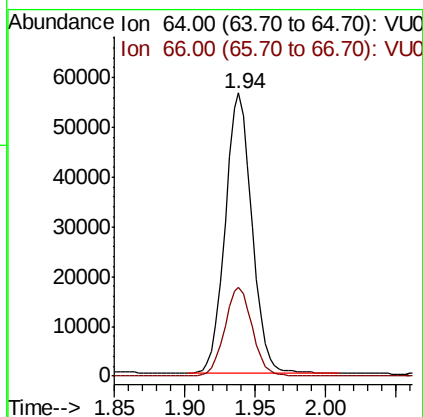
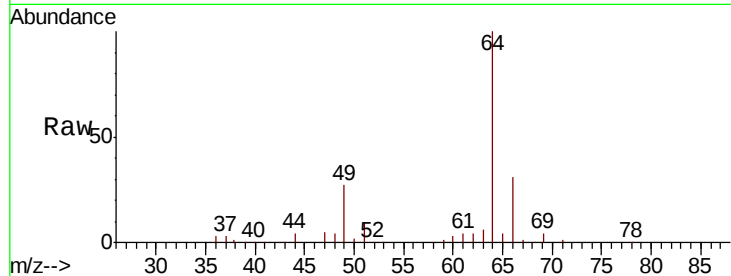




#8
Chloroethane
Concen: 51.508 ug/L
RT: 1.94 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

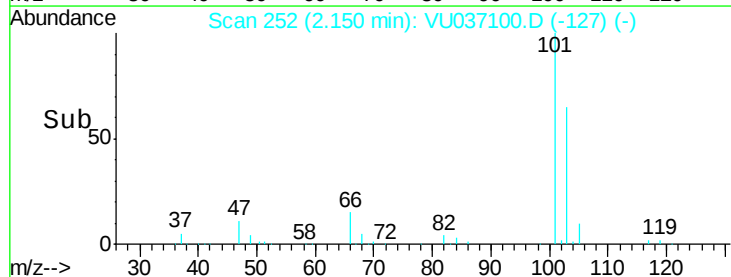
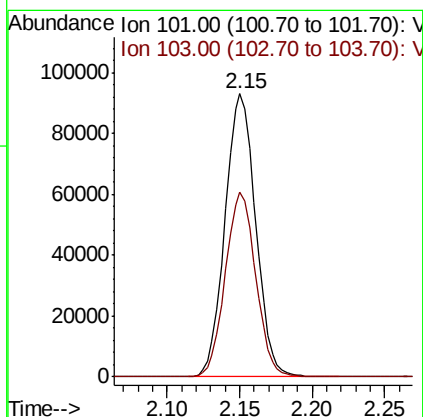
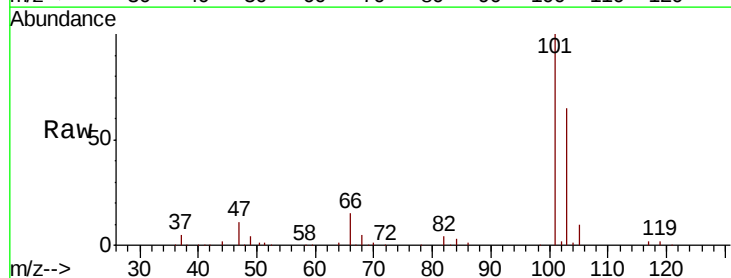
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

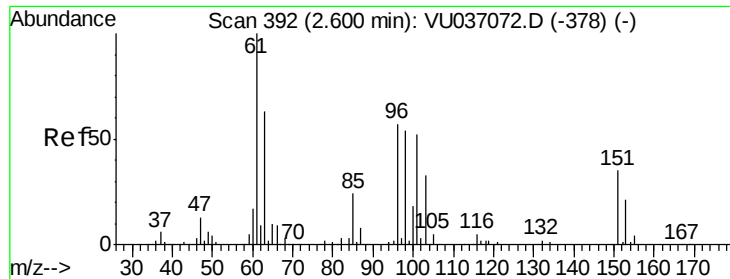
Tot Ion: 64 Resp: 74837
Ion Ratio Lower Upper
64 100
66 31.4 22.5 41.9



#9
Trichlorofluoromethane
Concen: 52.976 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Tgt Ion:101 Resp: 136183
Ion Ratio Lower Upper
101 100
103 64.7 50.9 76.3





#10

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

Concen: 54.542 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

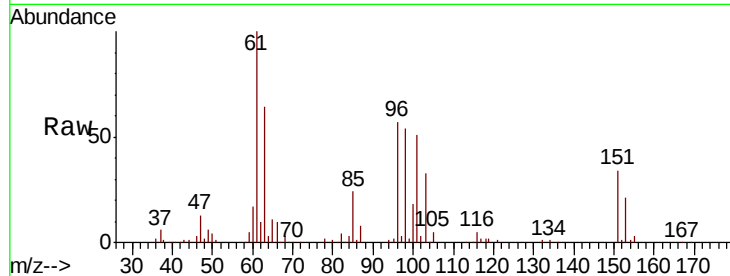
Tot Ion:101 Resp: 83872

Ion Ratio Lower Upper

101 100

85 46.3 36.4 54.6

151 64.8 52.4 78.6

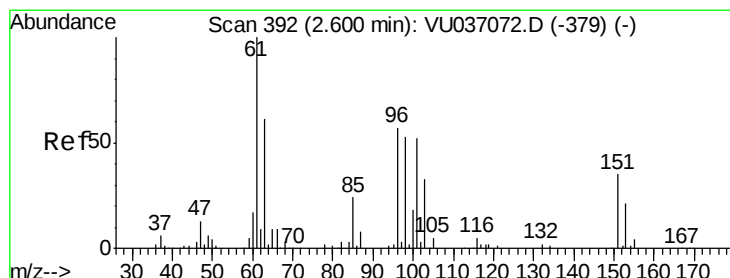
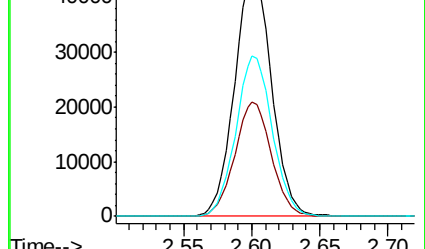
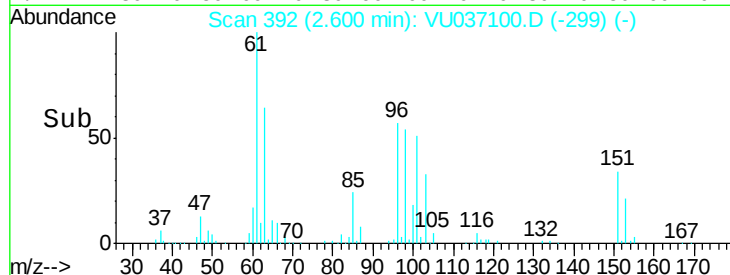


Abundance Ion 101.00 (100.70 to 101.70): VU037100.D (-299) (-)

Ion 85.00 (84.70 to 85.70): VU037100.D (-299) (-)

Ion 151.00 (150.70 to 151.70): VU037100.D (-299) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 50.808 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

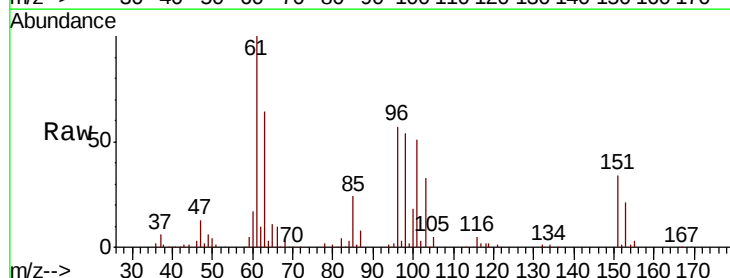
Tgt Ion: 96 Resp: 79023

Ion Ratio Lower Upper

96 100

61 176.0 127.5 236.7

63 113.1 101.4 188.2

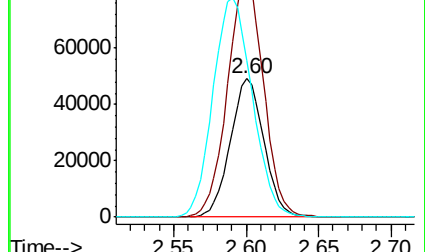
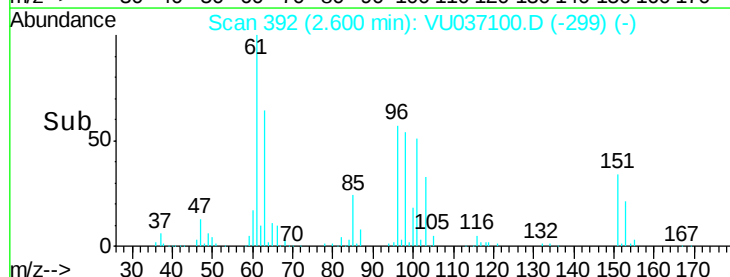


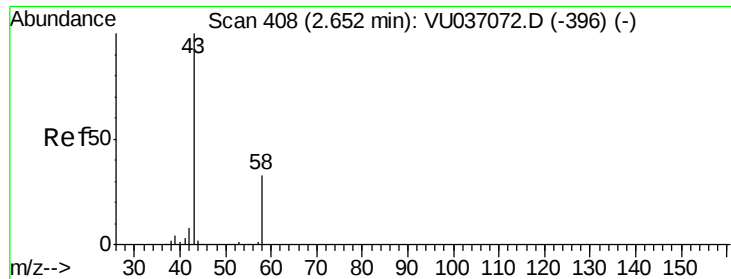
Abundance Ion 96.00 (95.70 to 96.70): VU037100.D (-299) (-)

Ion 61.00 (60.70 to 61.70): VU037100.D (-299) (-)

Ion 63.00 (62.70 to 63.70): VU037100.D (-299) (-)

Time-->





#13

Acetone

Concen: 110.521 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

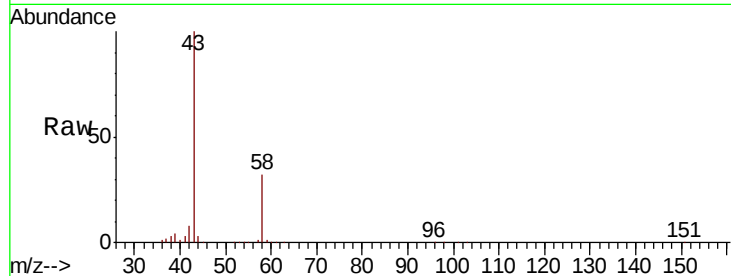
VSTD05050

Tot Ion: 43 Resp: 154204

Ion Ratio Lower Upper

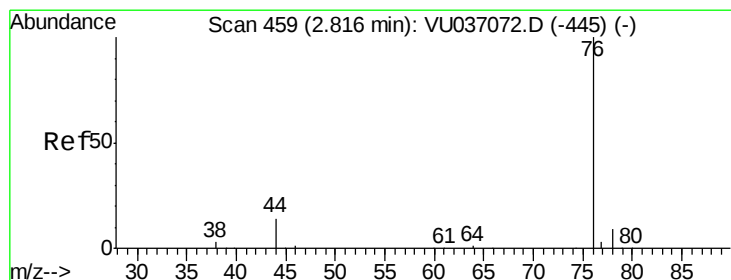
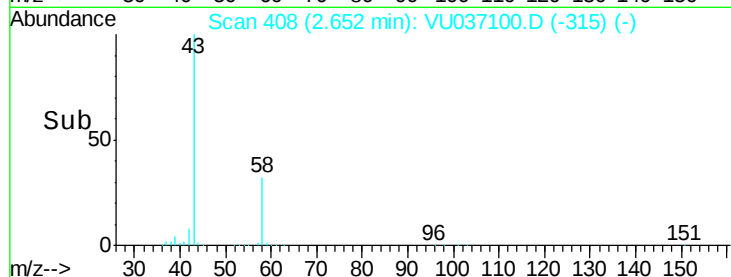
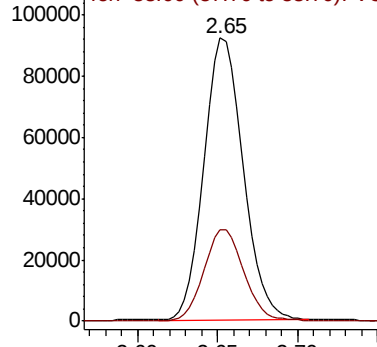
43 100

58 33.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 46.253 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.00 min

Lab File: VU037100.D

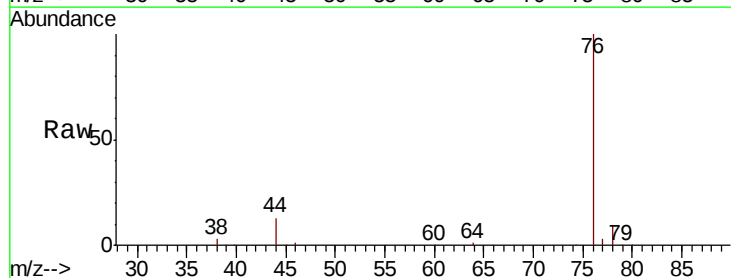
Acq: 06 Mar 2020 11:06

Tgt Ion: 76 Resp: 227609

Ion Ratio Lower Upper

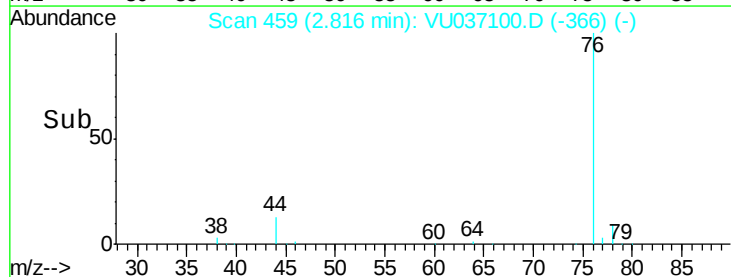
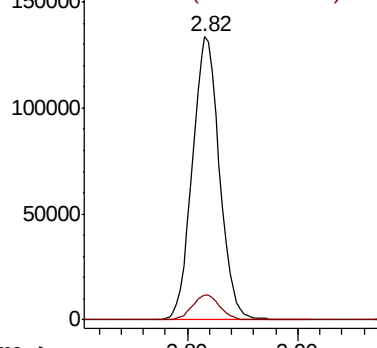
76 100

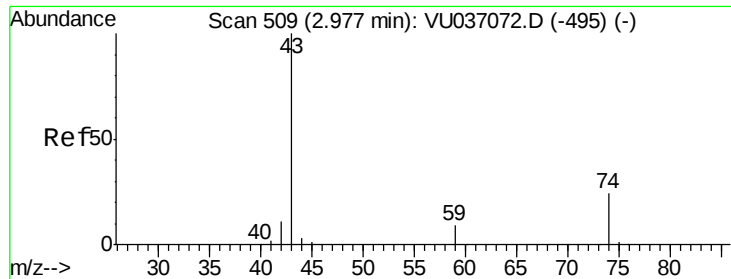
78 8.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

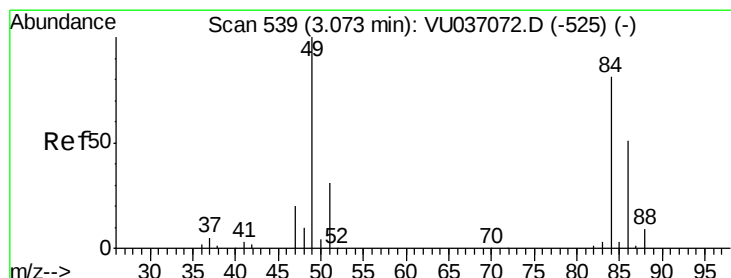
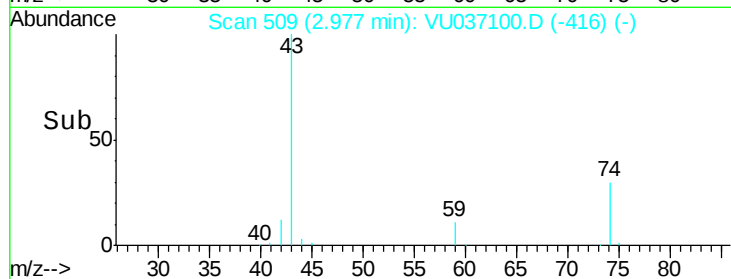
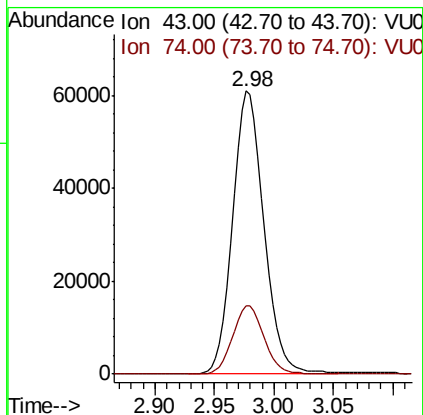
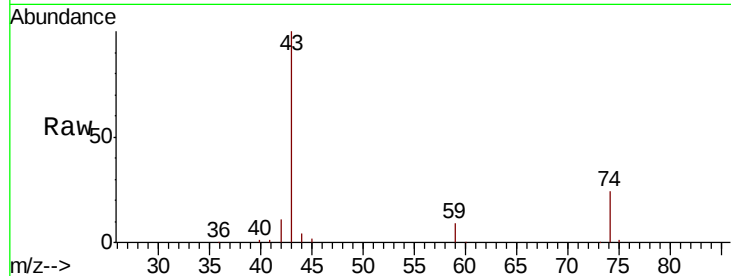




#15
Methvl Acetate
Concen: 52.340 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

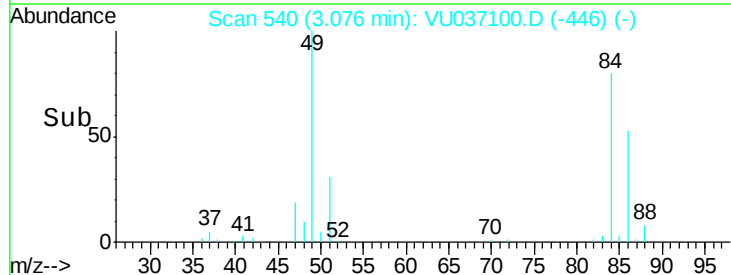
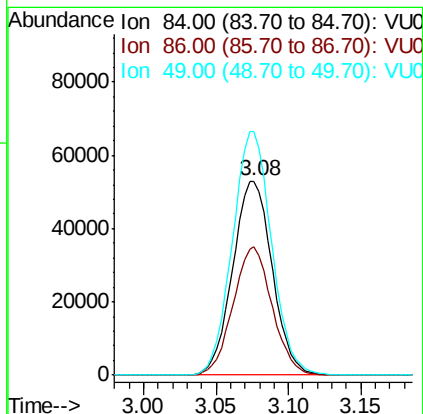
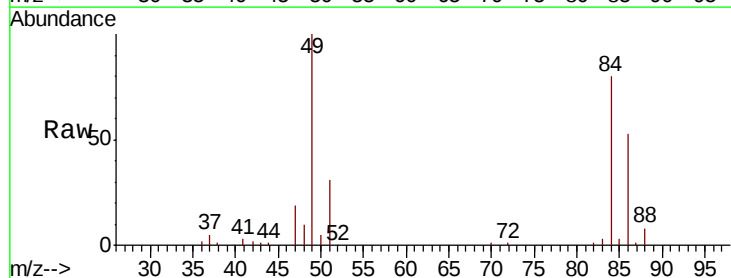
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

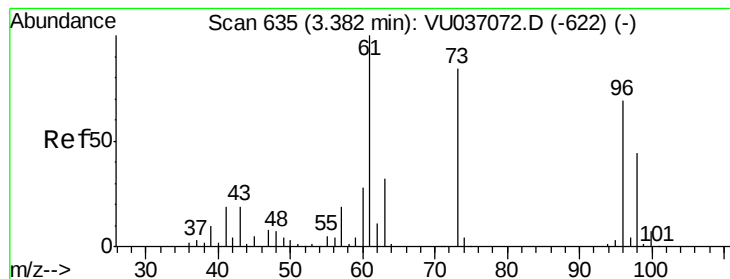
Tot Ion: 43 Resp: 111310
Ion Ratio Lower Upper
43 100
74 24.3 19.0 28.4



#16
Methylene chloride
Concen: 52.938 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Tgt Ion: 84 Resp: 100427
Ion Ratio Lower Upper
84 100
86 66.1 44.4 82.5
49 125.3 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 49.982 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

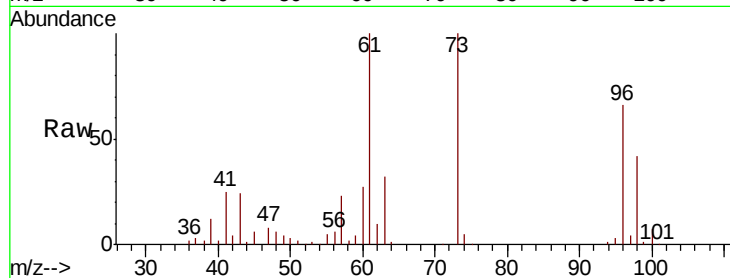
Tot Ion: 96 Resp: 83511

Ion Ratio Lower Upper

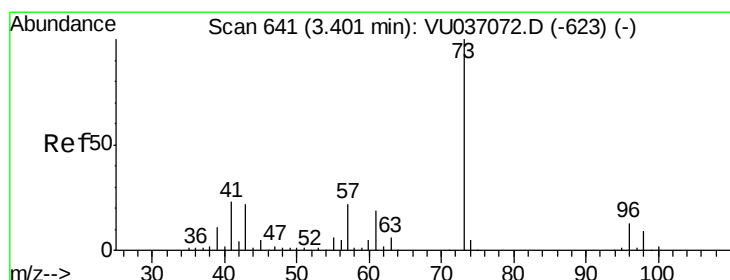
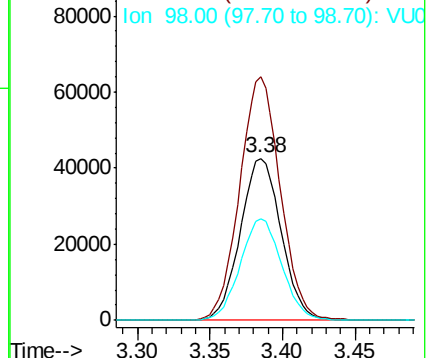
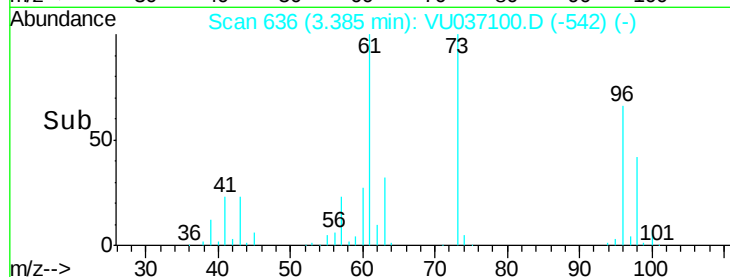
96 100

61 150.2 103.8 192.8

98 62.8 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU037100.D (-542) (-)



#18

Methyl tert-butyl Ether

Concen: 52.625 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

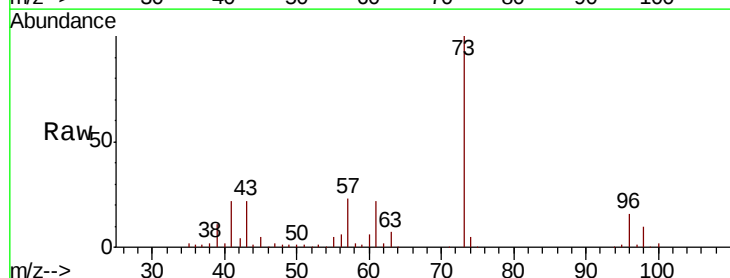
Tgt Ion: 73 Resp: 285816

Ion Ratio Lower Upper

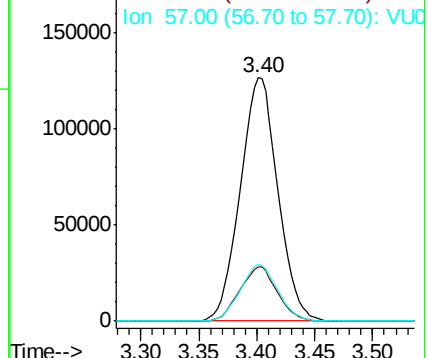
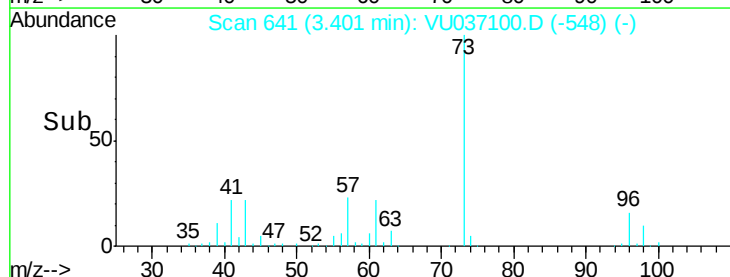
73 100

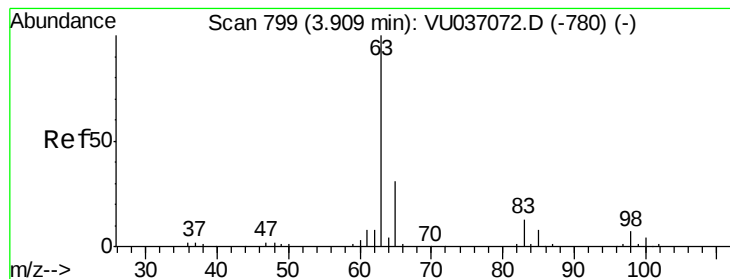
43 22.4 18.1 27.1

57 23.2 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VU037100.D (-548) (-)





#19

1,1-Dichloroethane

Concen: 53.915 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

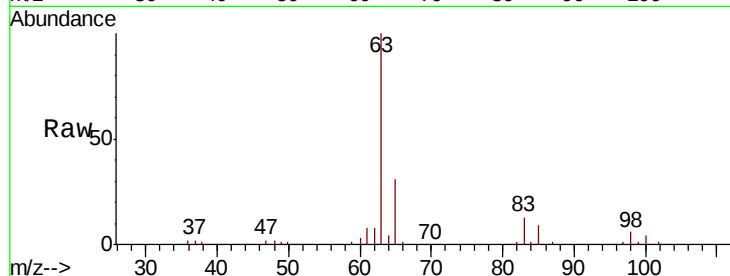
Tot Ion: 63 Resp: 175040

Ion Ratio Lower Upper

63 100

65 31.0 21.3 39.5

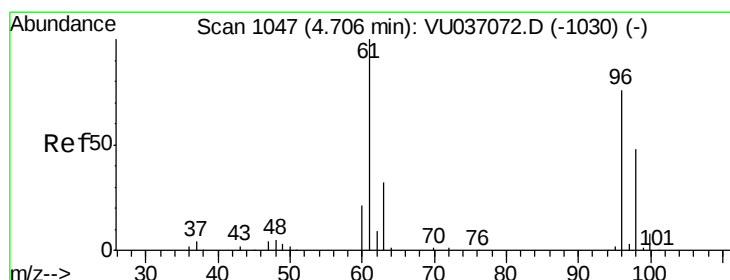
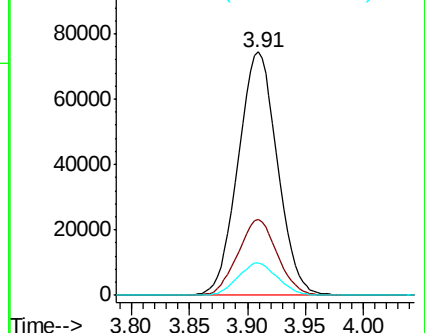
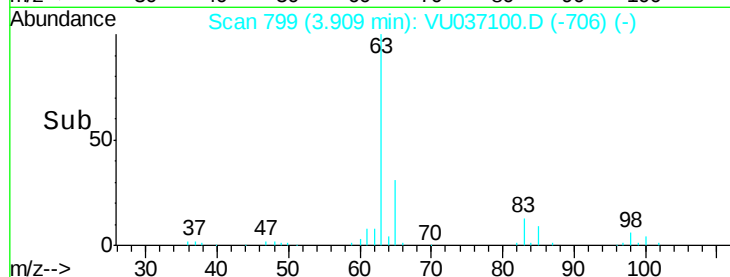
83 13.2 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU037100.D (-706) (-)

Ion 65.00 (64.70 to 65.70): VU037100.D (-706) (-)

Ion 83.00 (82.70 to 83.70): VU037100.D (-706) (-)



#20

cis-1,2-Dichloroethene

Concen: 53.428 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

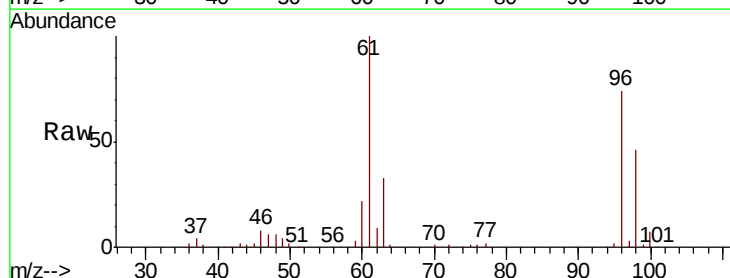
Tgt Ion: 96 Resp: 99816

Ion Ratio Lower Upper

96 100

61 135.8 93.1 172.9

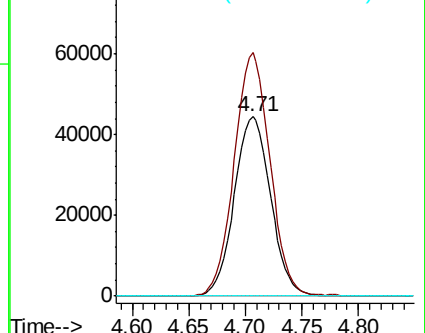
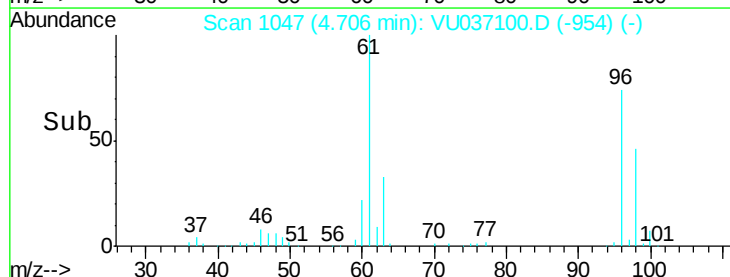
68 0.0 0.0 0.0

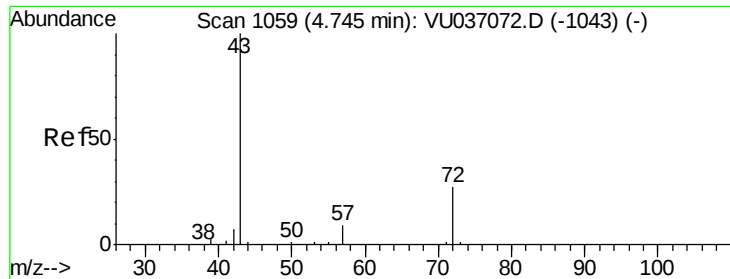


Abundance Ion 96.00 (95.70 to 96.70): VU037100.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU037100.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU037100.D (-954) (-)





#22

2-Butanone

Concen: 110.175 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

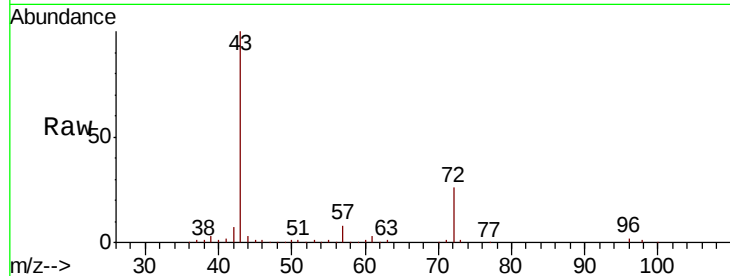
VSTD05050

Tot Ion: 43 Resp: 185367

Ion Ratio Lower Upper

43 100

72 27.5 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU037100.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037100.D (-966) (-)

4.74

80000

60000

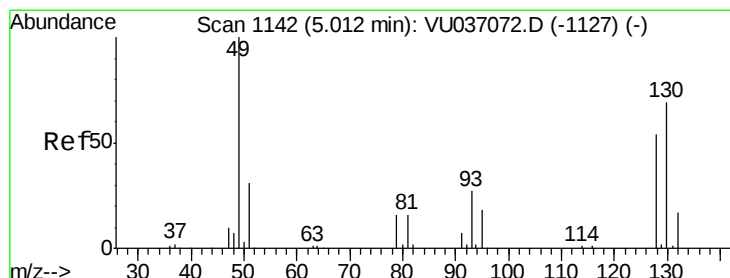
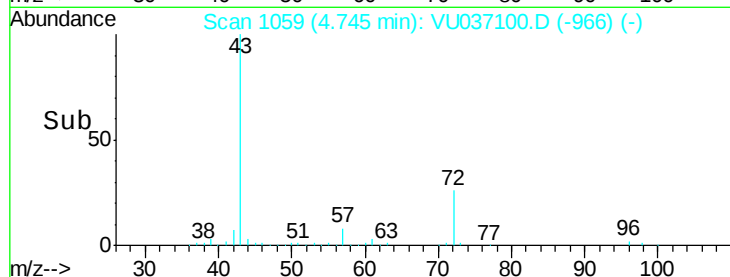
40000

20000

0

Time-->

4.65 4.70 4.75 4.80 4.85



#23

Bromochloromethane

Concen: 54.358 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Tgt Ion:128 Resp: 45990

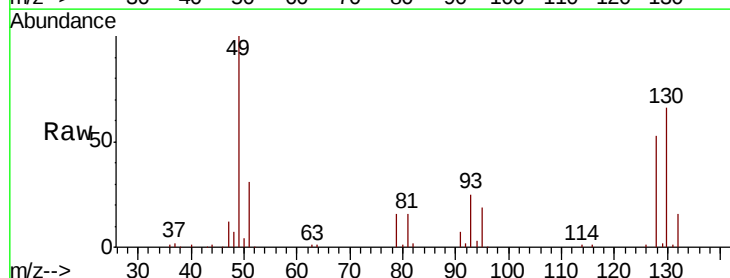
Ion Ratio Lower Upper

128 100

49 189.7 126.5 234.9

130 125.6 86.0 159.8

51 59.7 47.3 70.9



Abundance Ion 128.00 (127.70 to 128.70): VU037100.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037100.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037100.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037100.D (-1049) (-)

5.01

60000

50000

40000

30000

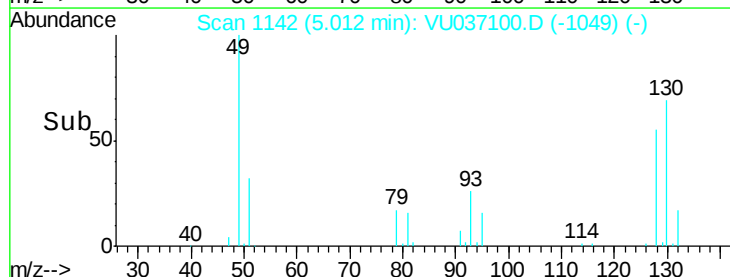
20000

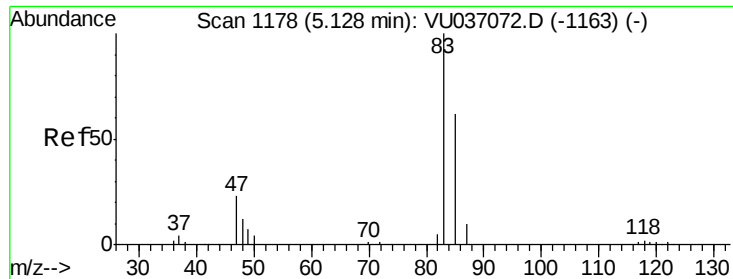
10000

0

Time-->

4.95 5.00 5.05 5.10

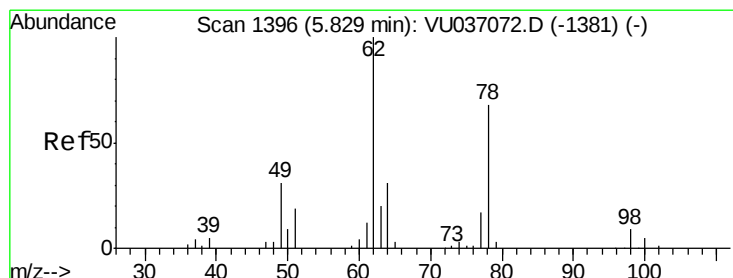
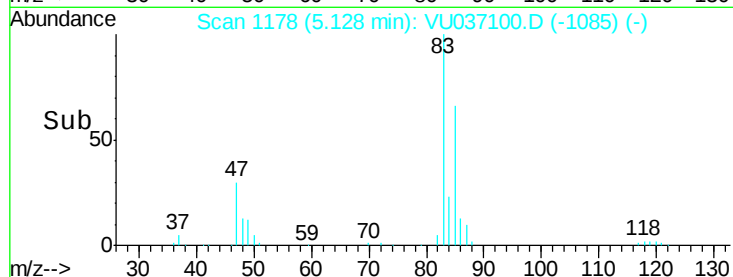
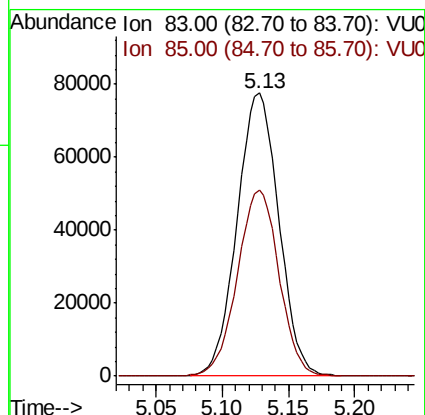
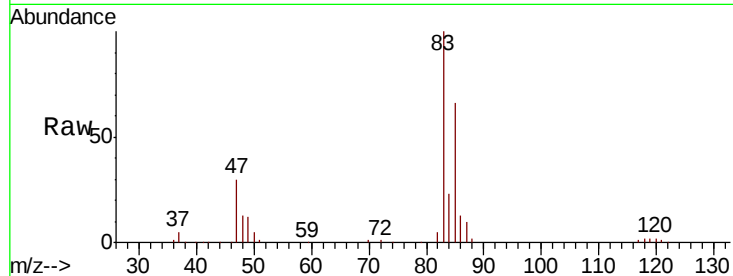




#25
Chloroform
Concen: 54.288 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

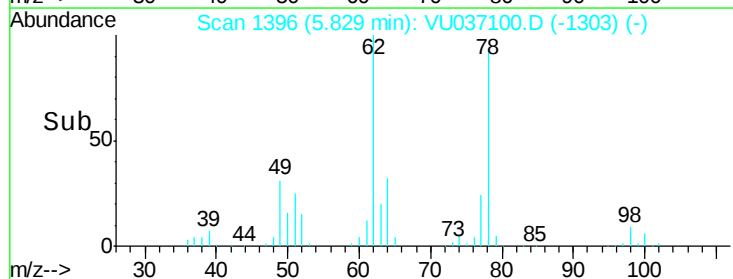
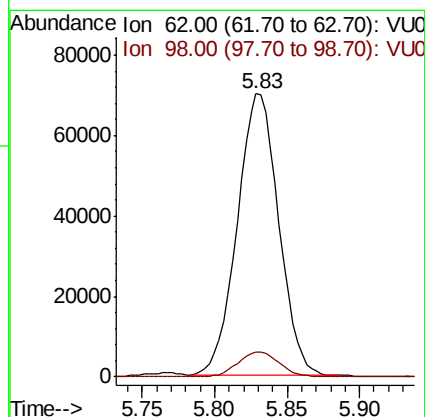
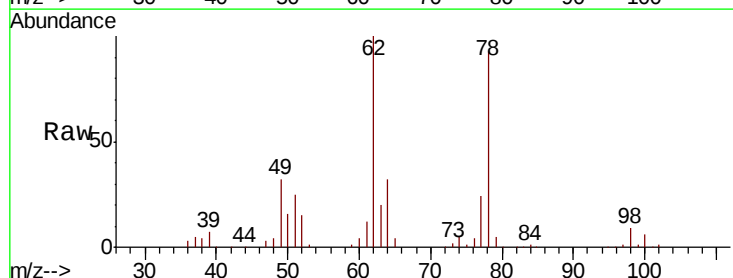
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

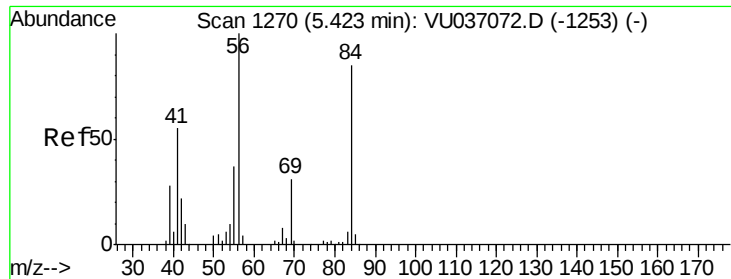
Tot Ion: 83 Resp: 170057
Ion Ratio Lower Upper
83 100
85 65.5 45.1 83.9



#27
1,2-Dichloroethane
Concen: 54.649 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Tgt Ion: 62 Resp: 139369
Ion Ratio Lower Upper
62 100
98 8.8 7.1 10.7

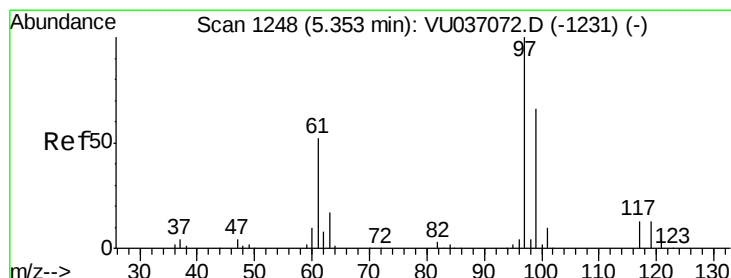
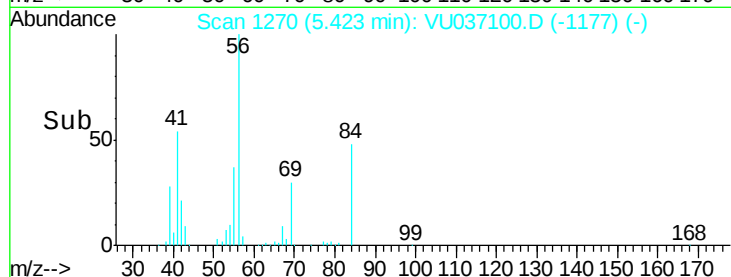
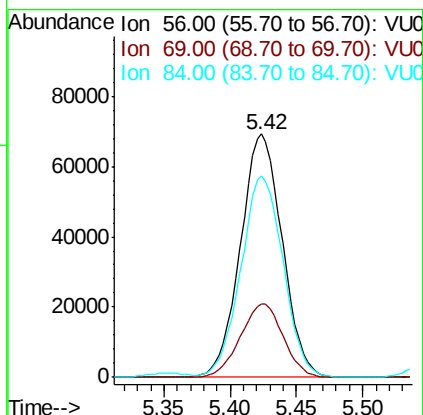
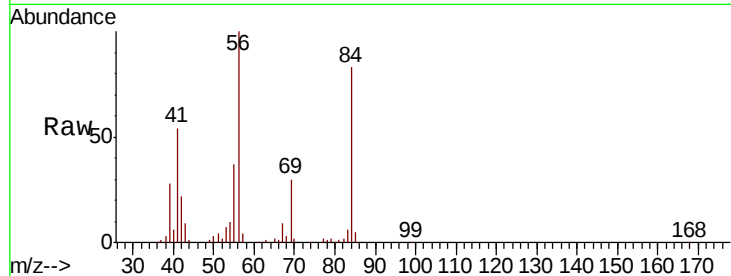




#29
Cyclohexane
Concen: 49.524 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

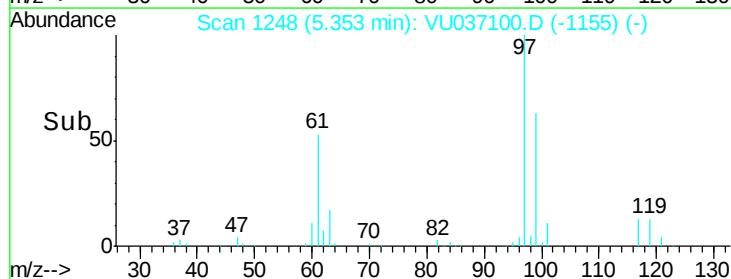
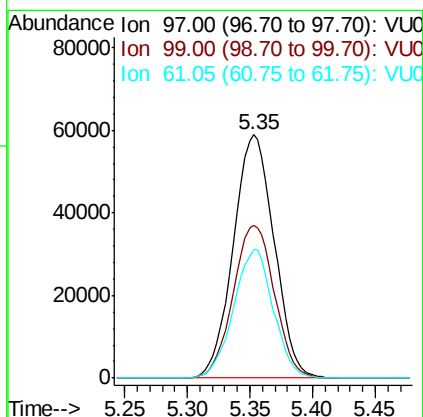
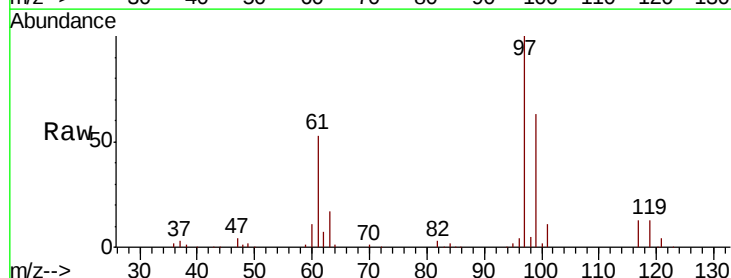
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

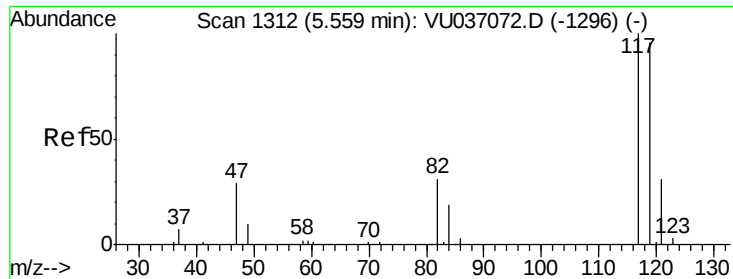
Tot Ion: 56 Resp: 152013
Ion Ratio Lower Upper
56 100
69 31.0 24.6 37.0
84 83.9 67.0 100.4



#30
1,1,1-Trichloroethane
Concen: 53.809 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Tgt Ion: 97 Resp: 133444
Ion Ratio Lower Upper
97 100
99 63.5 50.4 75.6
61 51.4 40.3 60.5





#31

Carbon tetrachloride

Concen: 55.114 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

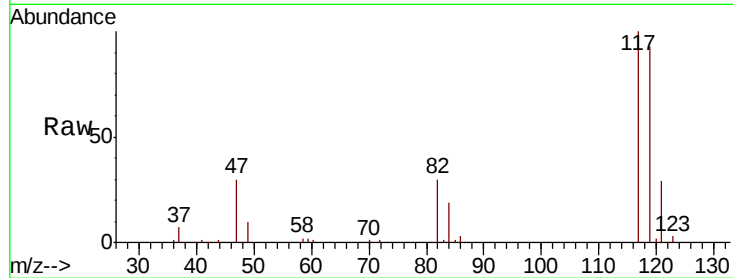
VSTD05050

Tot Ion:117 Resp: 107131

Ion Ratio Lower Upper

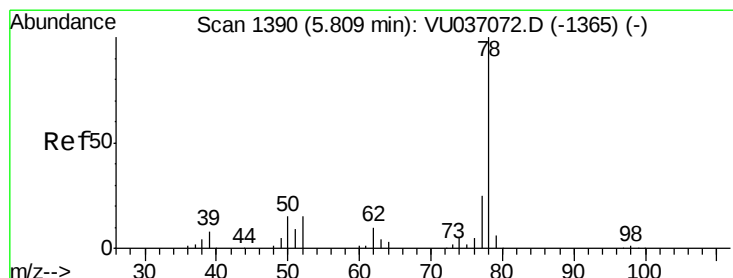
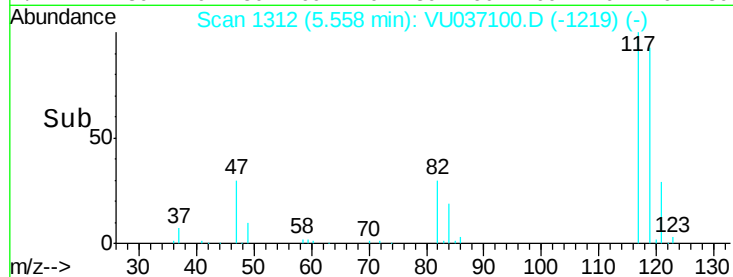
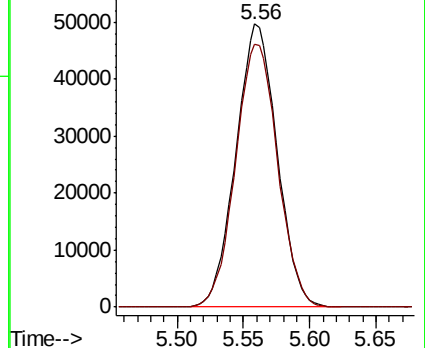
117 100

119 95.1 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.510 ug/L

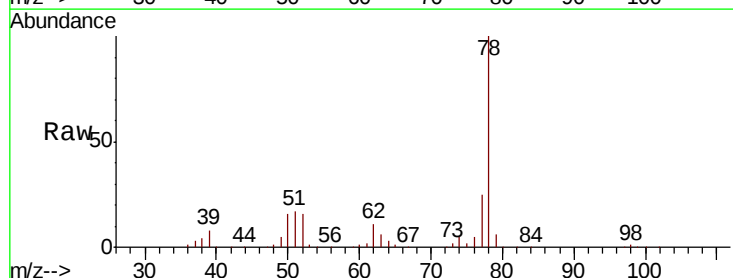
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

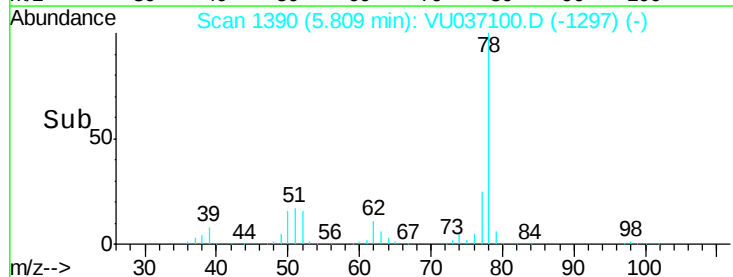
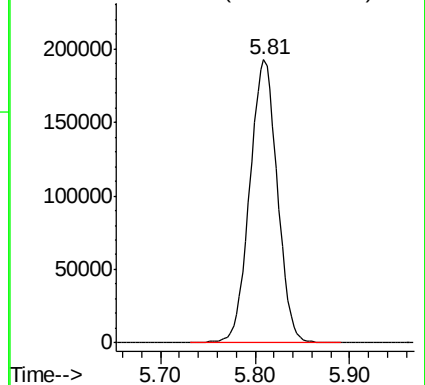
Lab File: VU037100.D

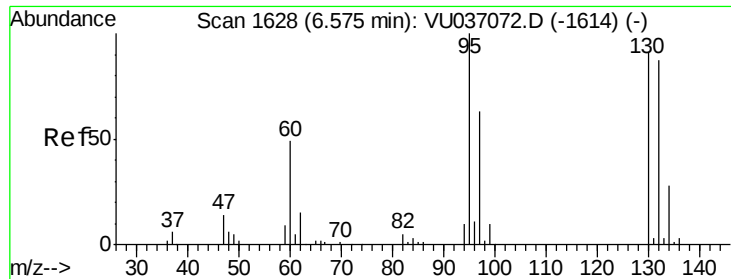
Acq: 06 Mar 2020 11:06

Tgt Ion: 78 Resp: 391011



Abundance Ion 78.00 (77.70 to 78.70): VU0

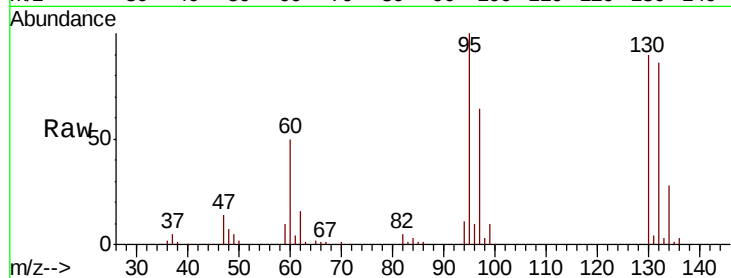




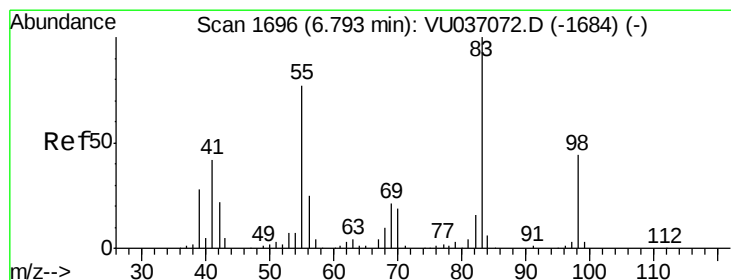
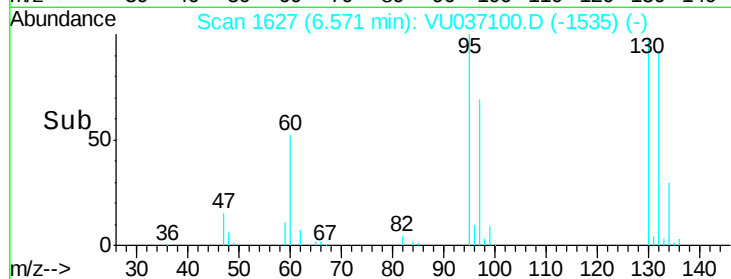
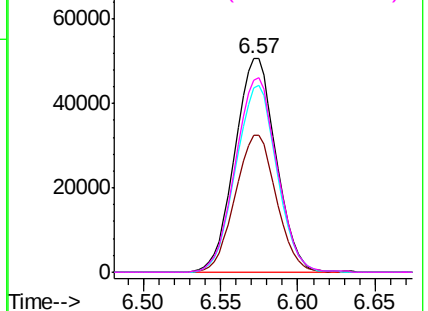
#34
 Trichloroethene
 Concen: 52.376 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tot Ion: 95 Resp: 94069
 Ion Ratio Lower Upper
 95 100
 97 63.9 44.1 81.9
 132 86.0 60.6 112.6
 130 90.0 64.9 120.5

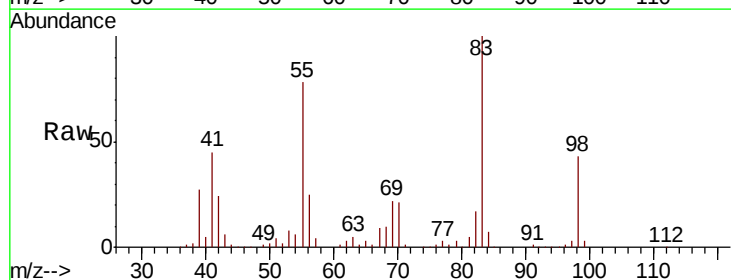


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

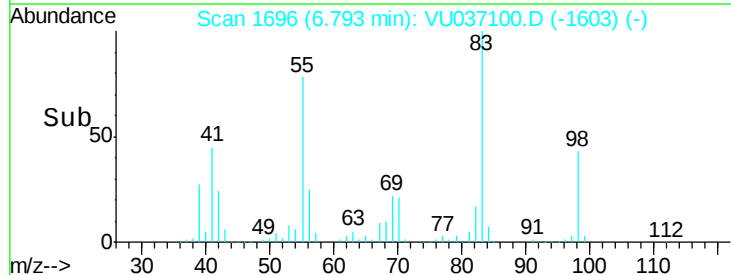
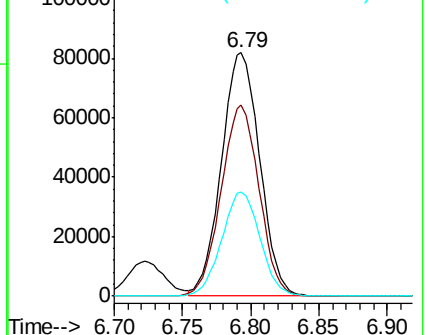


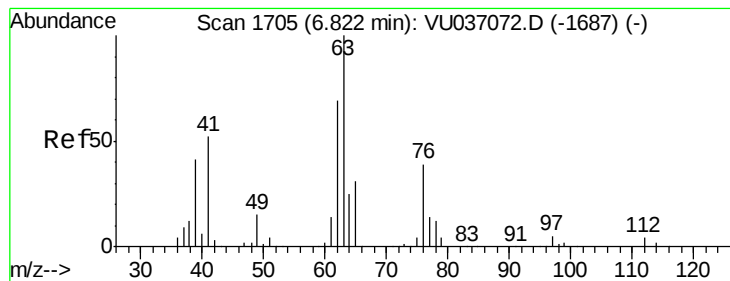
#35
 Methylcyclohexane
 Concen: 51.317 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

Tgt Ion: 83 Resp: 159800
 Ion Ratio Lower Upper
 83 100
 55 77.7 62.6 93.8
 98 42.7 35.1 52.7



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





#37

1,2-Dichloropropane

Concen: 54.278 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

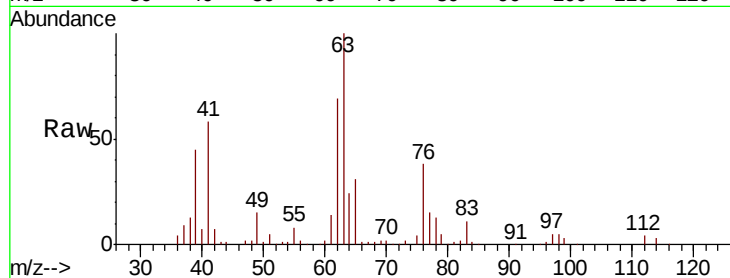
VSTD05050

Tot Ion: 63 Resp: 106793

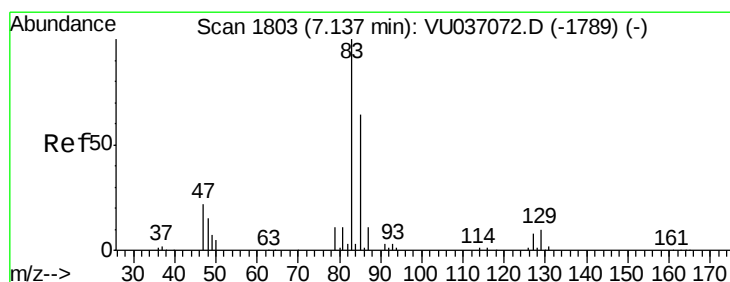
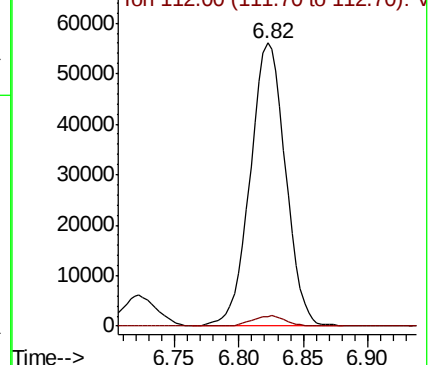
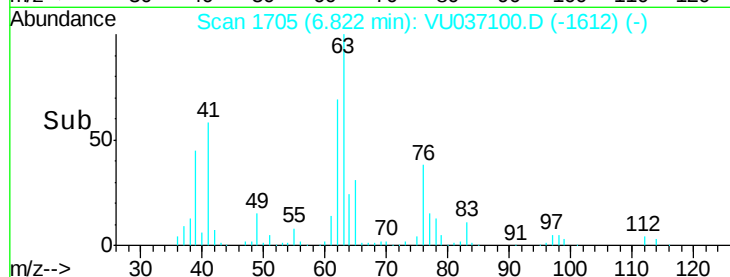
Ion Ratio Lower Upper

63 100

112 3.4 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU037100.D (-1612) (-)



#38

Bromodichloromethane

Concen: 54.325 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

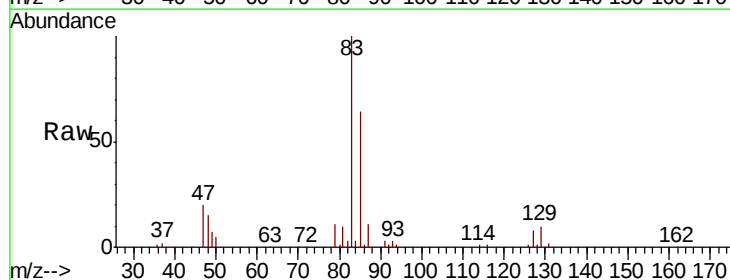
Tgt Ion: 83 Resp: 126167

Ion Ratio Lower Upper

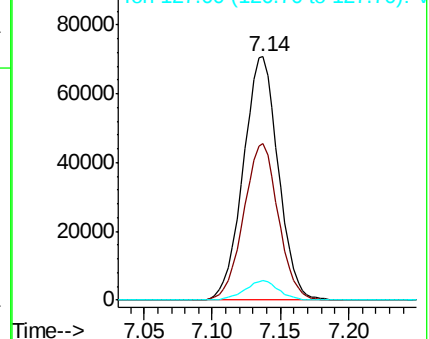
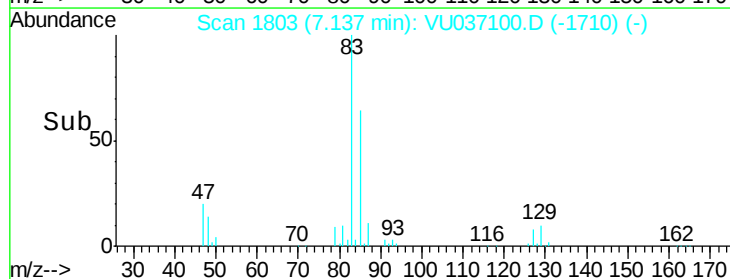
83 100

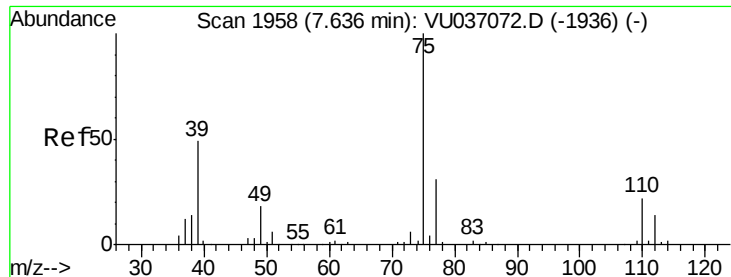
85 64.1 43.6 81.0

127 7.9 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VU037100.D (-1710) (-)

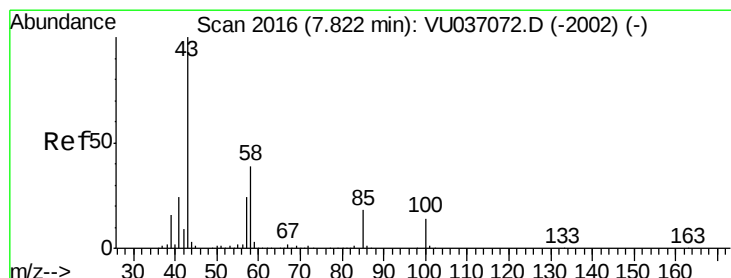
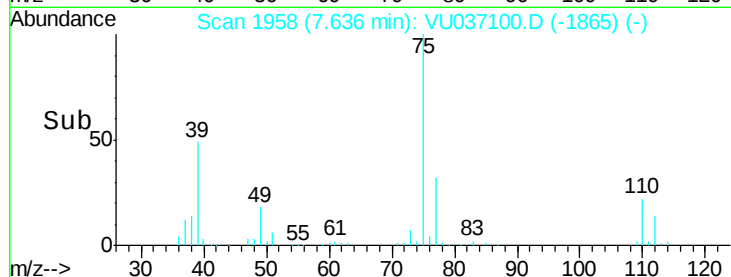
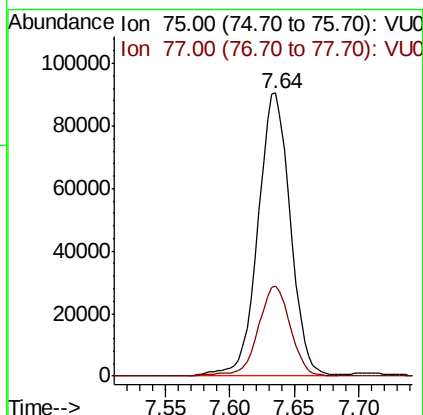
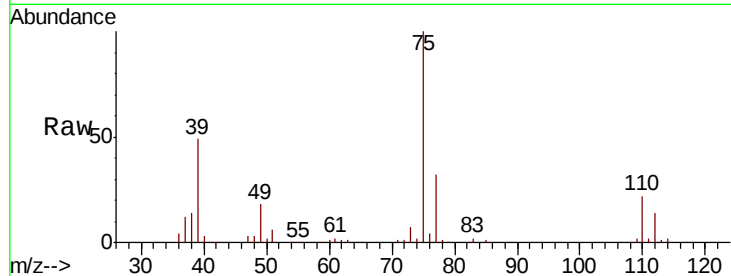




#39
 cis-1,3-Dichloropropene
 Concen: 52.515 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

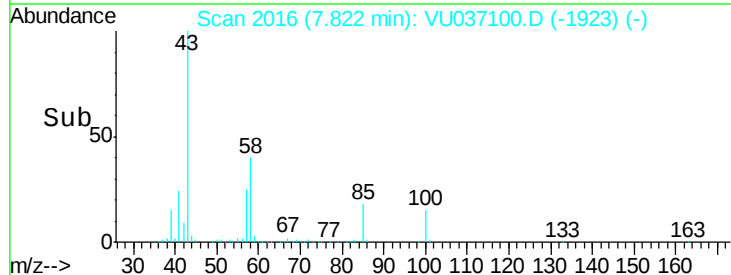
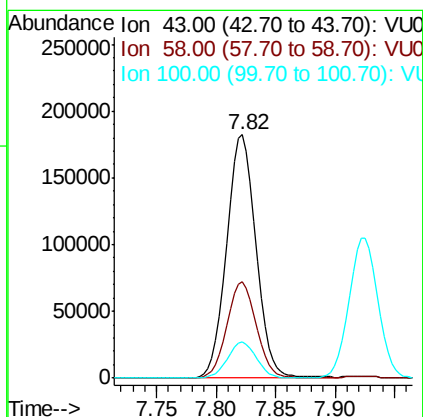
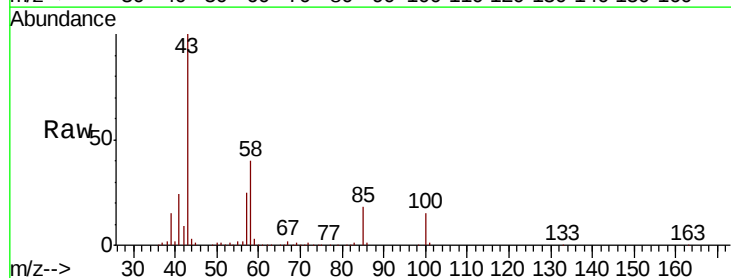
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

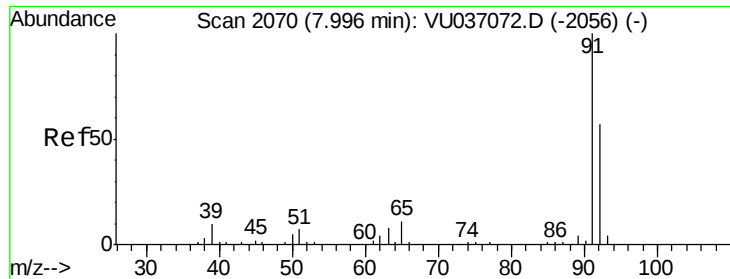
Tot Ion: 75 Resp: 159164
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 107.856 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

Tgt Ion: 43 Resp: 312693
 Ion Ratio Lower Upper
 43 100
 58 39.5 31.8 47.6
 100 14.5 11.5 17.3





#42

Toluene

Concen: 53.580 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

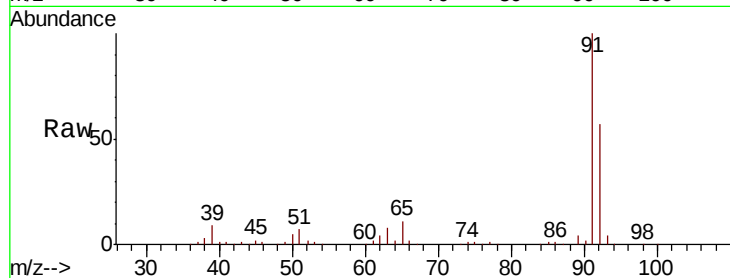
VSTD05050

Tot Ion: 91 Resp: 417122

Ion Ratio Lower Upper

91 100

92 57.1 39.4 73.2



Abundance Ion 91.00 (90.70 to 91.70): VU037100.D (-1977) (-)

Ion 92.00 (91.70 to 92.70): VU037100.D (-1977) (-)

250000

200000

150000

100000

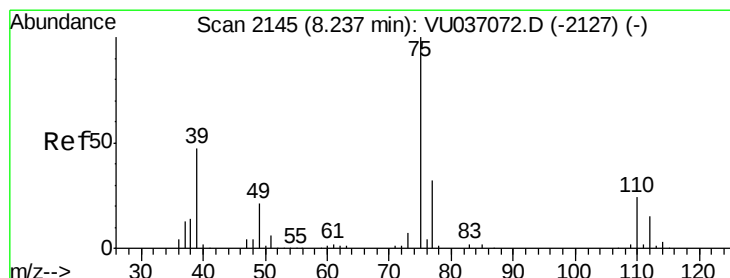
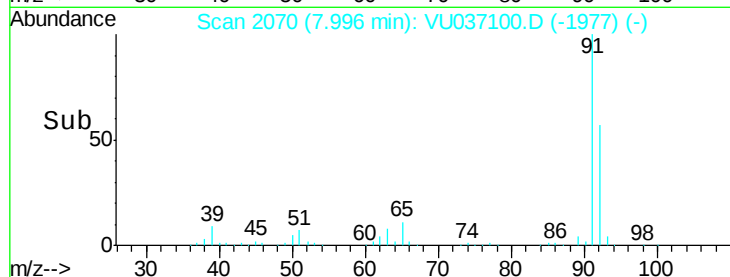
50000

0

8.00

7.90 7.95 8.00 8.05

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.921 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU037100.D

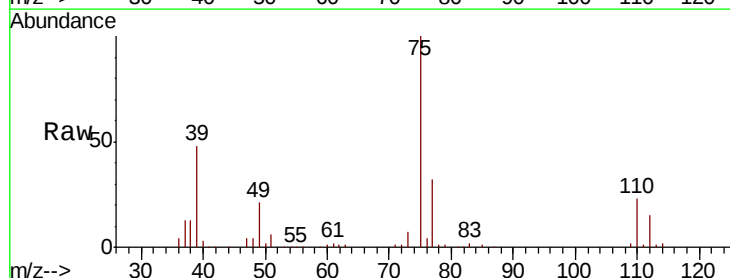
Acq: 06 Mar 2020 11:06

Tgt Ion: 75 Resp: 139137

Ion Ratio Lower Upper

75 100

77 32.0 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU037100.D (-2052) (-)

Ion 77.00 (76.70 to 77.70): VU037100.D (-2052) (-)

80000

60000

40000

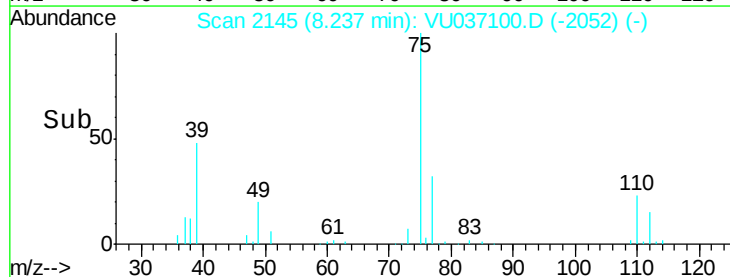
20000

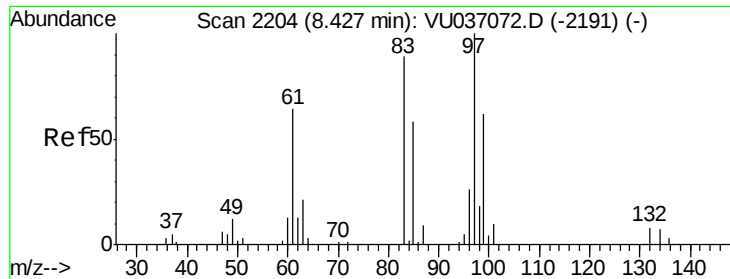
0

8.24

8.15 8.20 8.25 8.30 8.35

Time-->

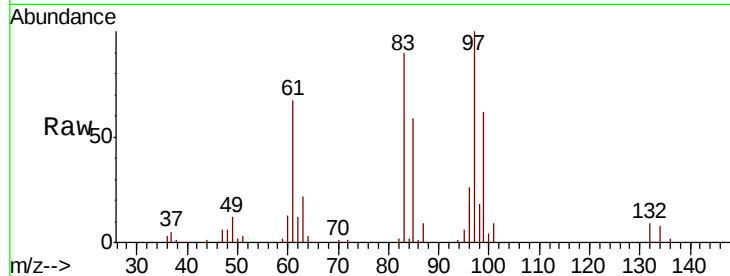




#45
 1,1,2-Trichloroethane
 Concen: 54.627 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

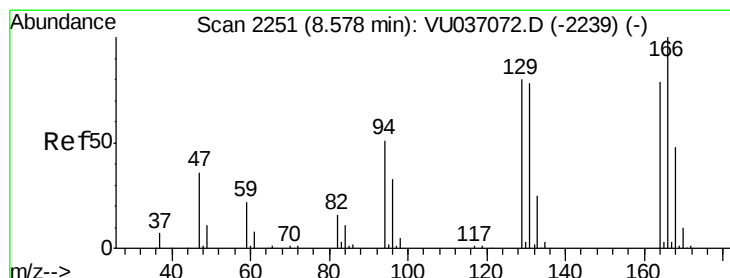
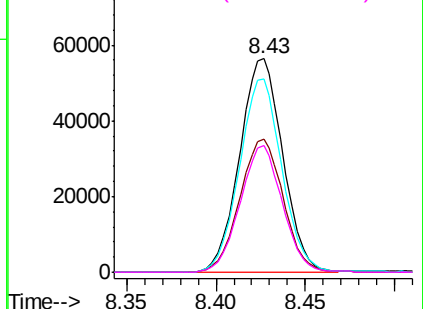
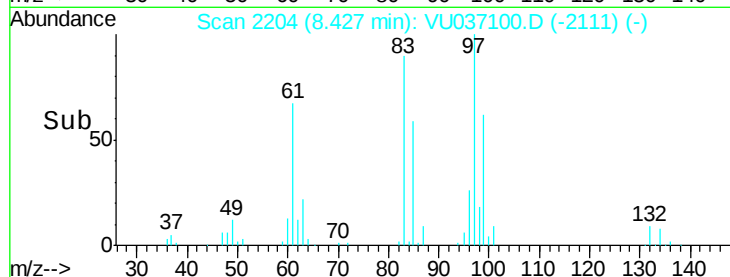
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tot Ion:	97	Resp:	95577
Ion	Ratio	Lower	Upper
97	100		
99	62.1	43.6	81.0
83	90.4	62.7	116.5
85	59.1	40.3	74.9



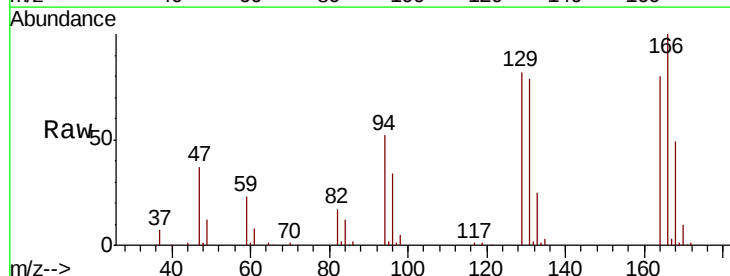
Abundance

Ion 97.00 (96.70 to 97.70): VU037100.D (-2111) (-)



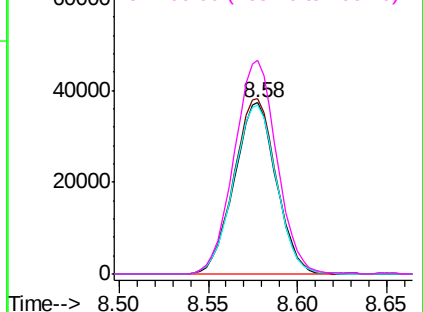
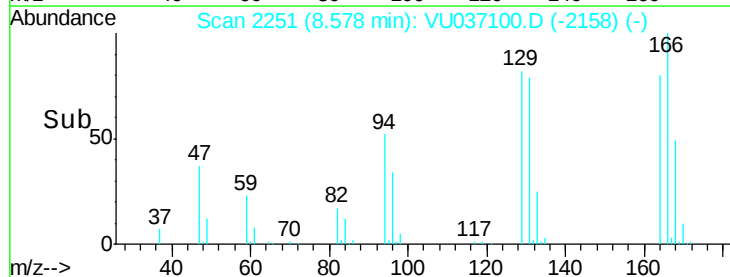
#46
 Tetrachloroethene
 Concen: 52.162 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

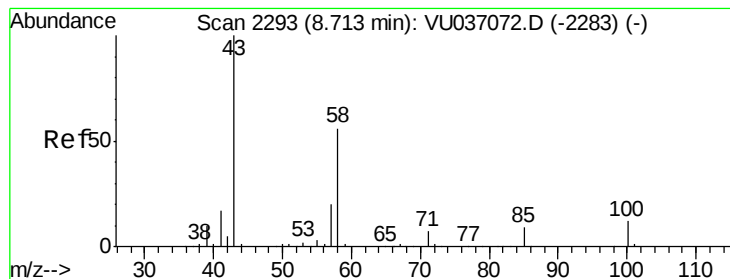
Tgt Ion:	164	Resp:	61716
Ion	Ratio	Lower	Upper
164	100		
129	102.1	72.0	133.8
131	98.7	67.9	126.1
166	124.8	87.1	161.7



Abundance

Ion 164.00 (163.70 to 164.70): VU037100.D (-2158) (-)





#48

2-Hexanone

Concen: 109.756 ug/L

RT: 8.71 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tot Ion: 43 Resp: 253925

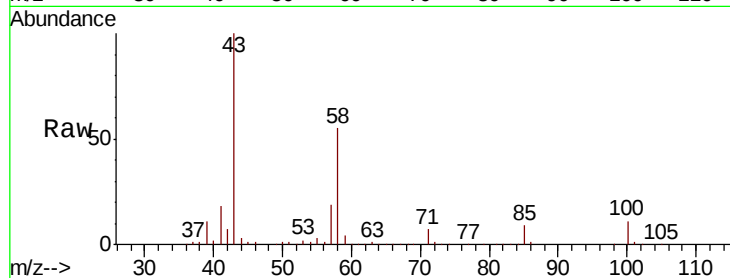
Ion Ratio Lower Upper

43 100

58 55.1 43.5 65.3

57 19.2 15.1 22.7

100 11.1 8.7 13.1



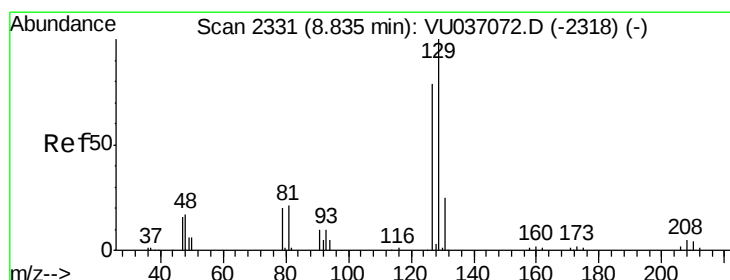
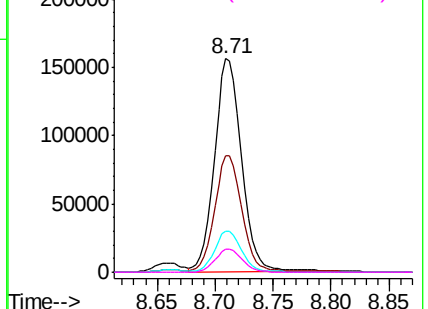
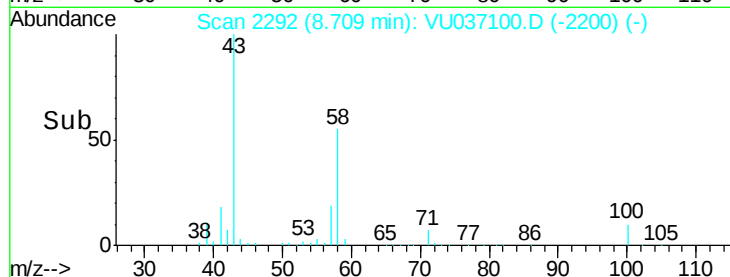
Abundance

Ion 43.00 (42.70 to 43.70): VU037100.D (-2292) (-)

Ion 58.00 (57.70 to 58.70): VU037100.D (-2292) (-)

Ion 57.00 (56.70 to 57.70): VU037100.D (-2292) (-)

Ion 100.00 (99.70 to 100.70): VU037100.D (-2292) (-)



#49

Dibromochloromethane

Concen: 55.052 ug/L

RT: 8.83 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU037100.D

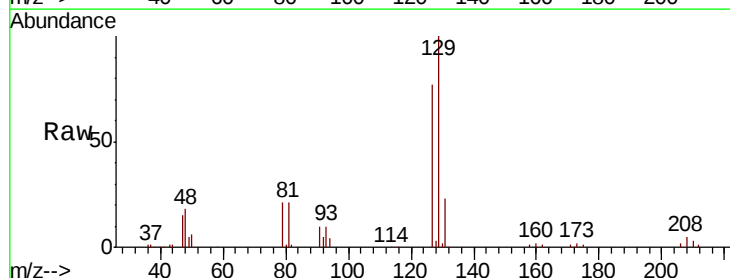
Acq: 06 Mar 2020 11:06

Tgt Ion: 129 Resp: 91425

Ion Ratio Lower Upper

129 100

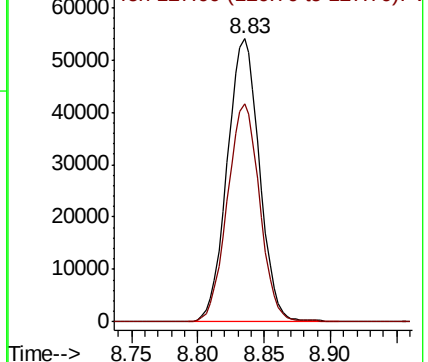
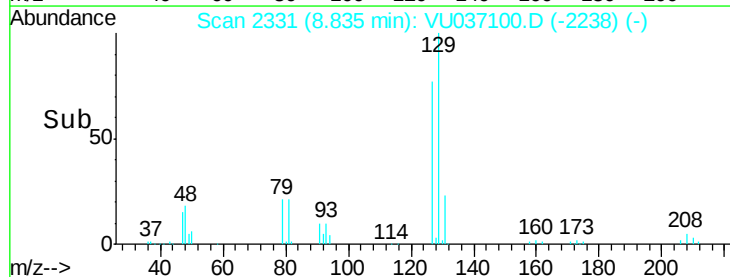
127 77.2 54.3 100.8

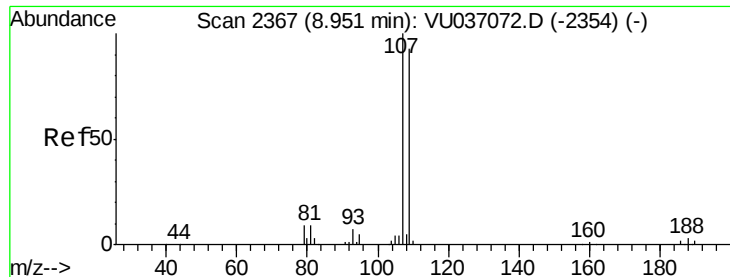


Abundance

Ion 129.00 (128.70 to 129.70): VU037100.D (-2331) (-)

Ion 127.00 (126.70 to 127.70): VU037100.D (-2331) (-)

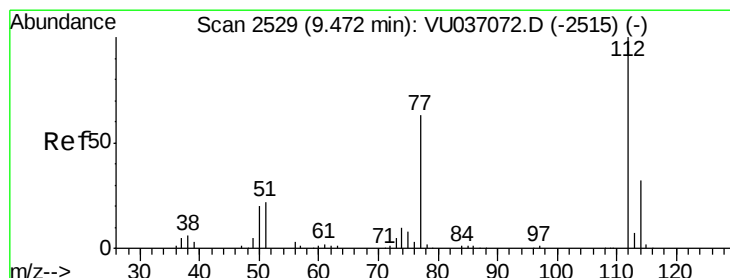
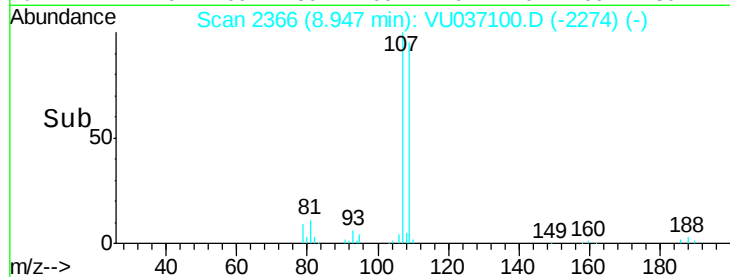
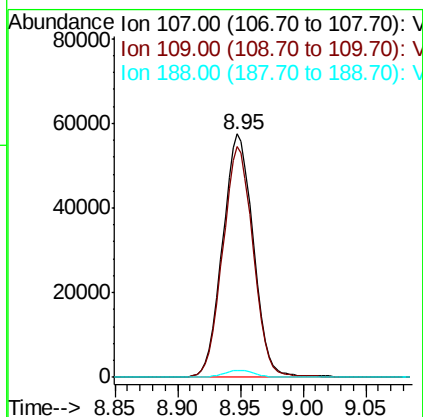
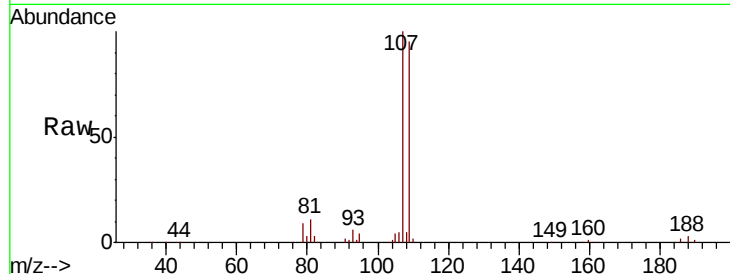




#50
1,2-Dibromoethane
Concen: 53.417 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

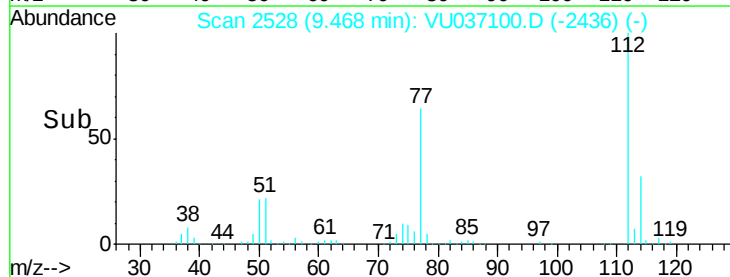
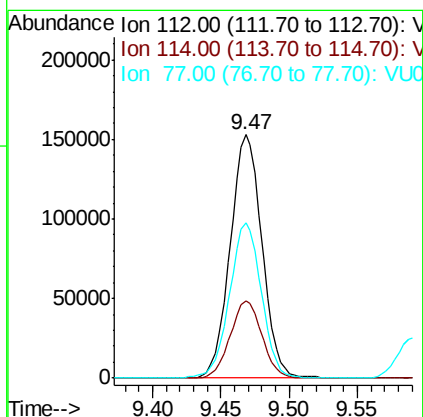
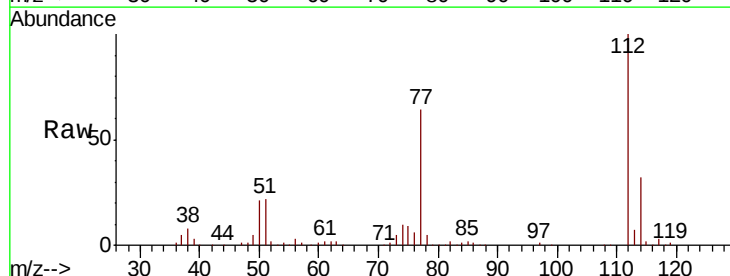
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

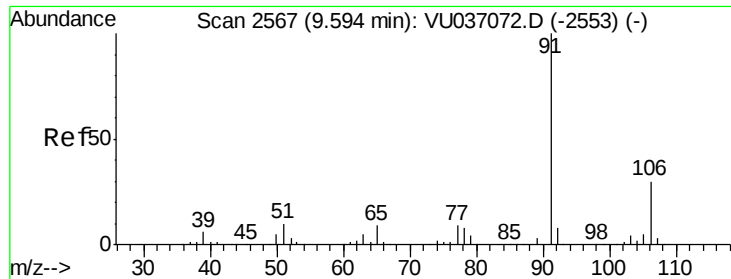
Tot Ion:107 Resp: 97733
Ion Ratio Lower Upper
107 100
109 94.7 65.9 122.5
188 3.0 2.2 3.2



#51
Chlorobenzene
Concen: 53.670 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Tgt Ion:112 Resp: 247573
Ion Ratio Lower Upper
112 100
114 32.0 22.3 41.5
77 63.8 50.1 75.1





#52

Ethylbenzene

Concen: 53.011 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

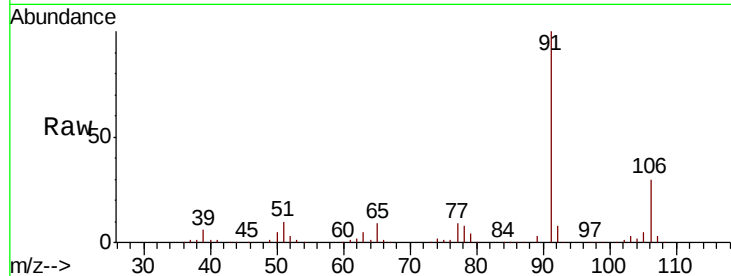
VSTD05050

Tot Ion: 91 Resp: 447388

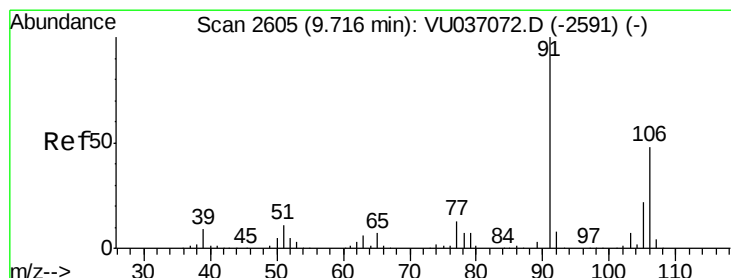
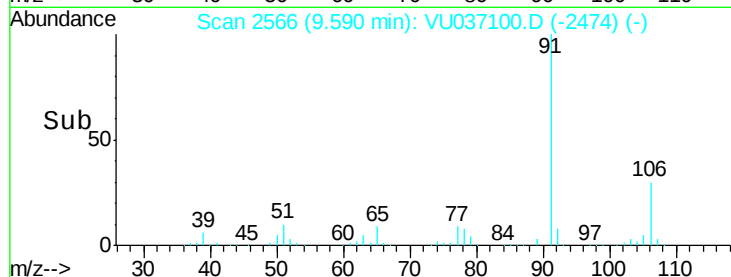
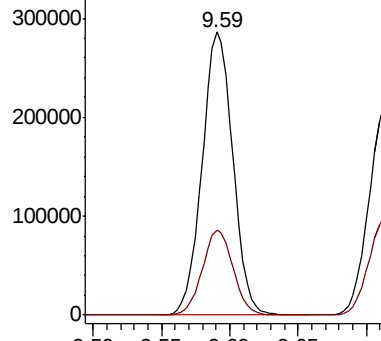
Ion Ratio Lower Upper

91 100

106 30.0 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU037100.D (-2553) (-)



#53

m,p-Xylene

Concen: 53.574 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037100.D

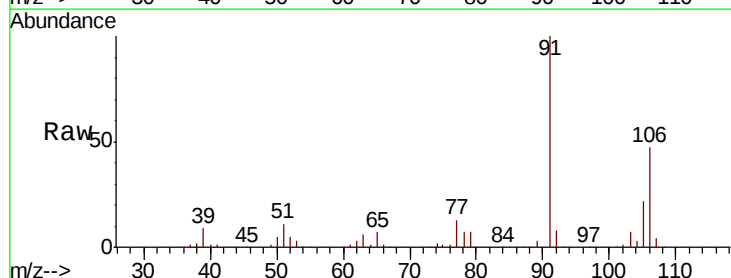
Acq: 06 Mar 2020 11:06

Tgt Ion: 106 Resp: 165851

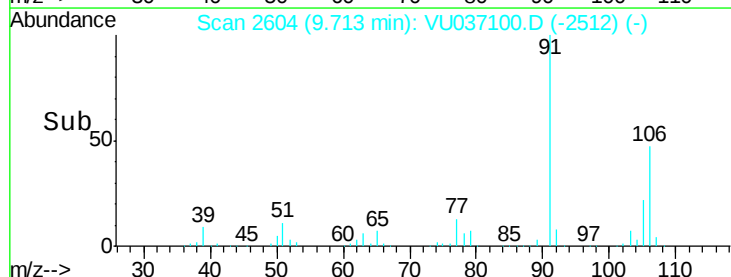
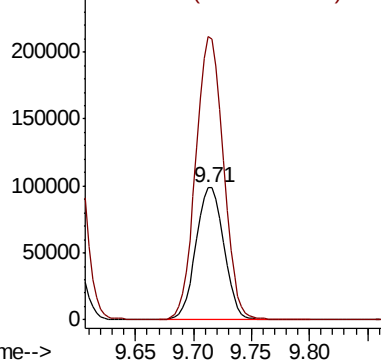
Ion Ratio Lower Upper

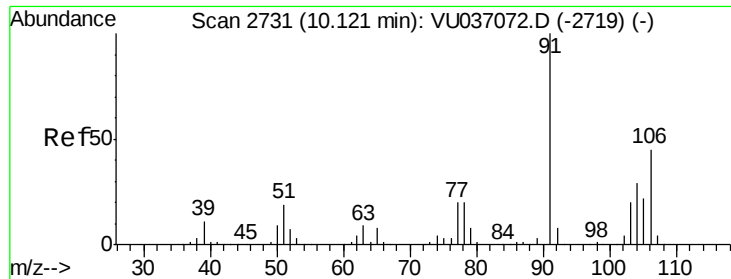
106 100

91 214.0 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): VU037100.D (-2591) (-)

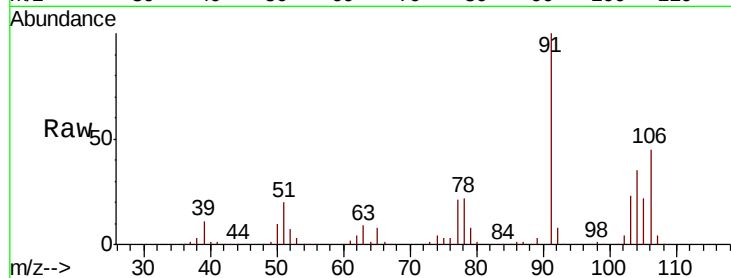




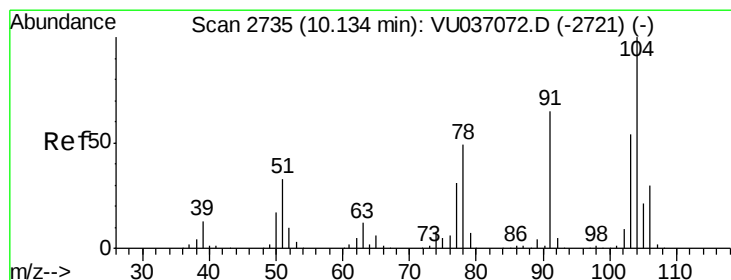
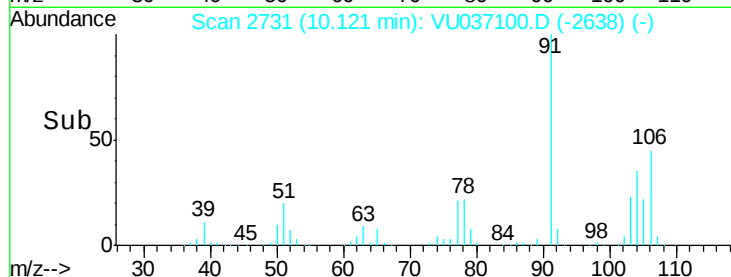
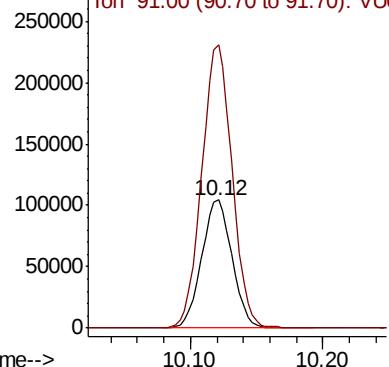
#54
o-xylene
Concen: 53.780 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tot Ion:106 Resp: 166053
Ion Ratio Lower Upper
106 100
91 221.1 154.2 286.4

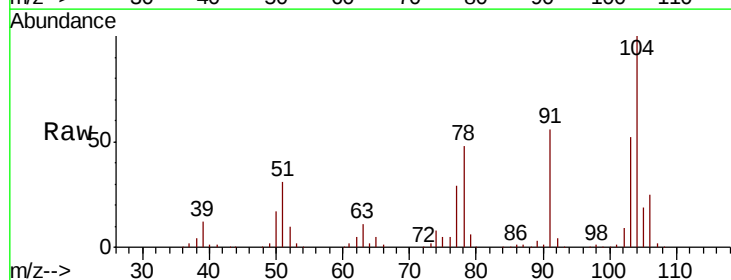


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

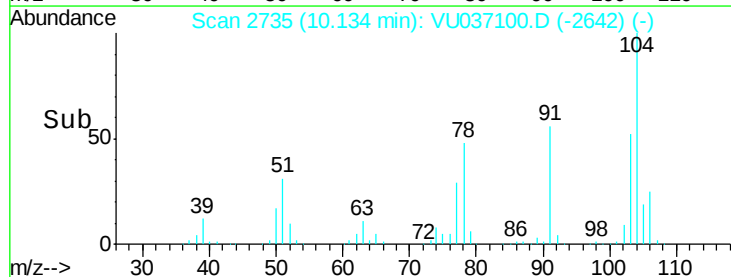
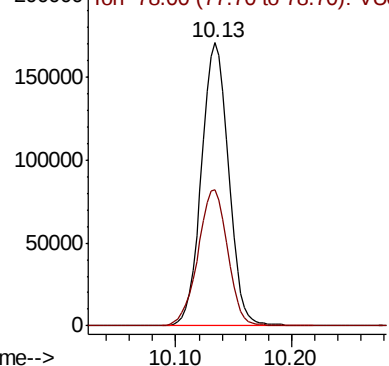


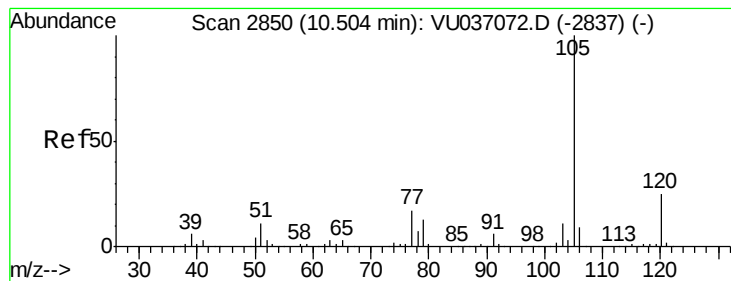
#55
Styrene
Concen: 54.936 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU037100.D
Acq: 06 Mar 2020 11:06

Tgt Ion:104 Resp: 277280
Ion Ratio Lower Upper
104 100
78 48.2 33.0 61.4



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





#56

Isopropylbenzene

Concen: 53.686 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

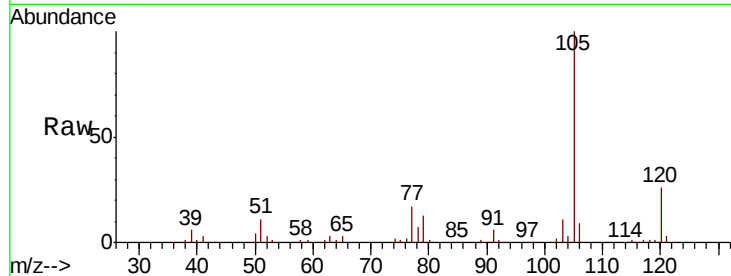
Tot Ion:105 Resp: 425747

Ion Ratio Lower Upper

105 100

120 25.3 20.5 30.7

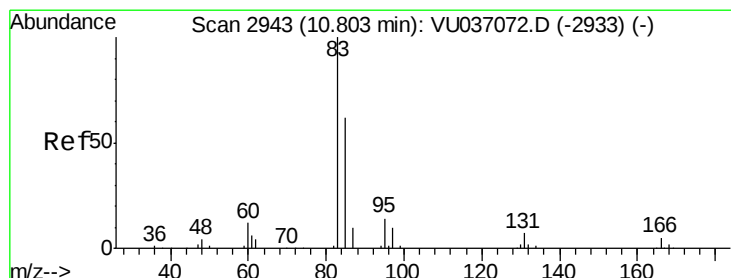
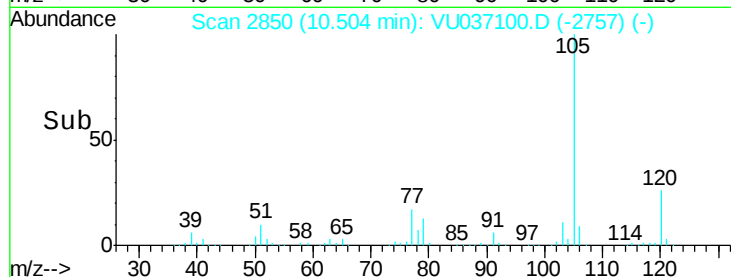
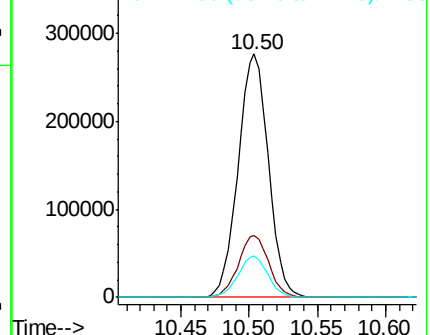
77 16.7 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 56.571 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

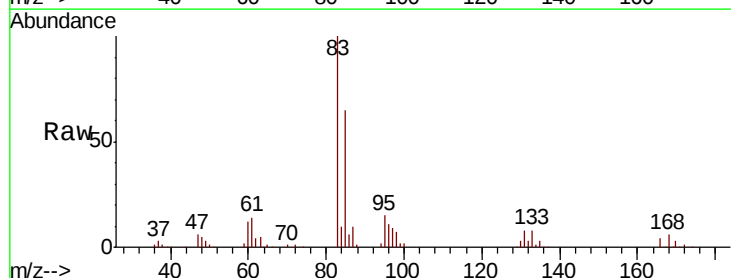
Tgt Ion: 83 Resp: 176953

Ion Ratio Lower Upper

83 100

85 64.7 45.5 84.5

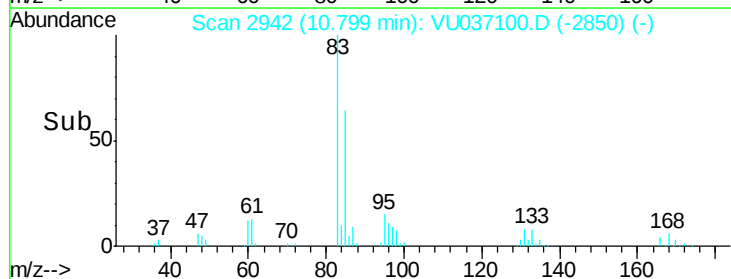
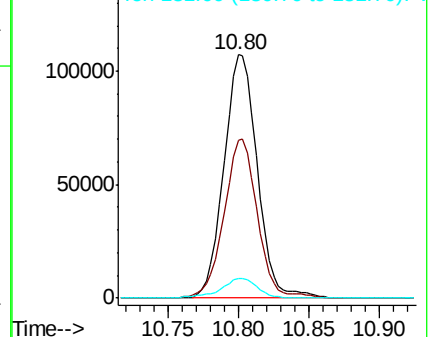
131 8.2 6.8 10.2

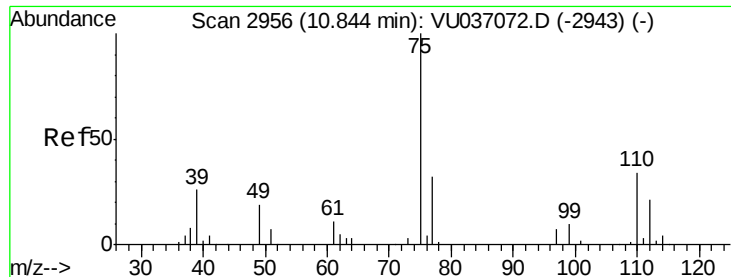


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 55.810 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

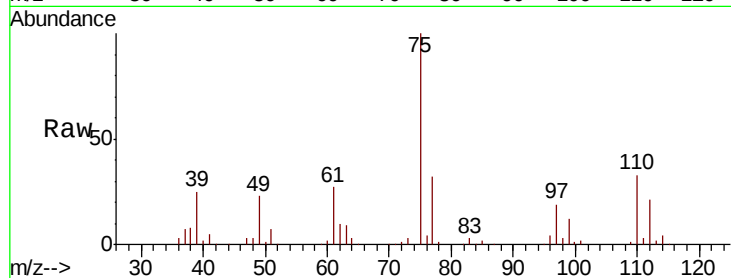
VSTD05050

Tot Ion: 75 Resp: 141261

Ion Ratio Lower Upper

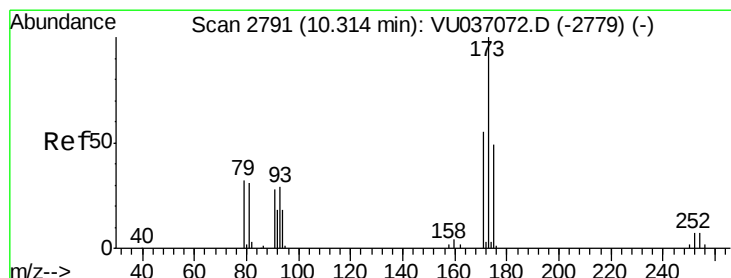
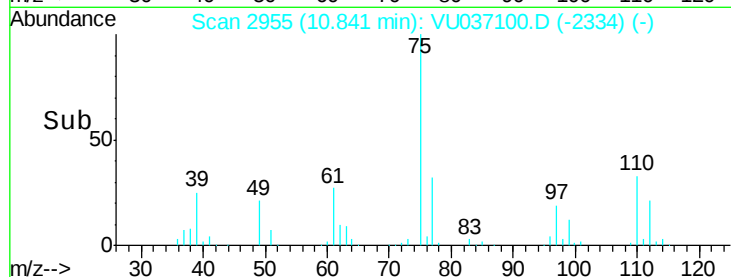
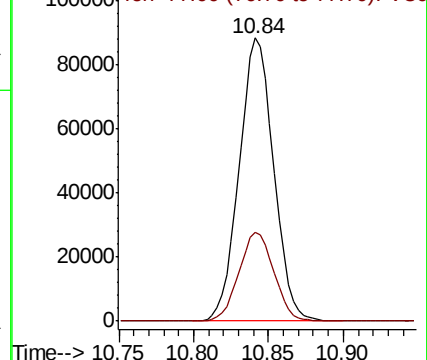
75 100

77 32.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU037100.D (-2334) (-)

Ion 77.00 (76.70 to 77.70): VU037100.D (-2334) (-)



#61

Bromoform

Concen: 55.345 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

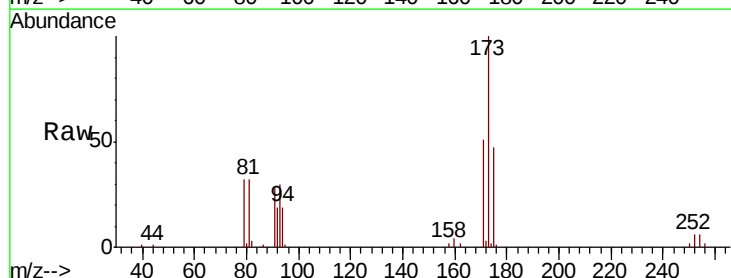
Tgt Ion: 173 Resp: 62336

Ion Ratio Lower Upper

173 100

175 47.9 39.0 58.6

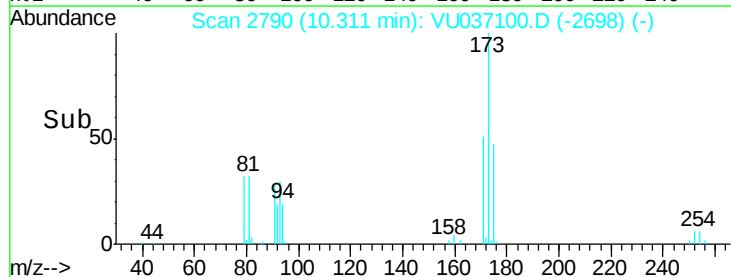
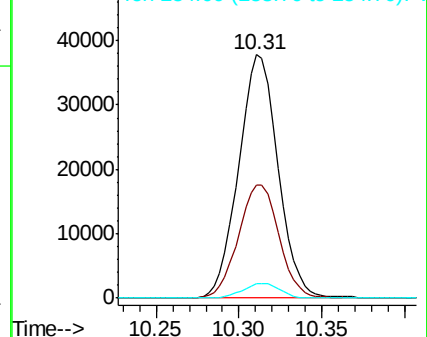
254 5.6 4.6 6.8

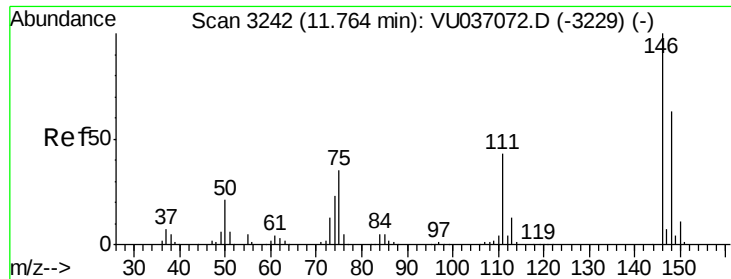


Abundance Ion 173.00 (172.70 to 173.70): VU037100.D (-2698) (-)

Ion 175.00 (174.70 to 175.70): VU037100.D (-2698) (-)

Ion 254.00 (253.70 to 254.70): VU037100.D (-2698) (-)

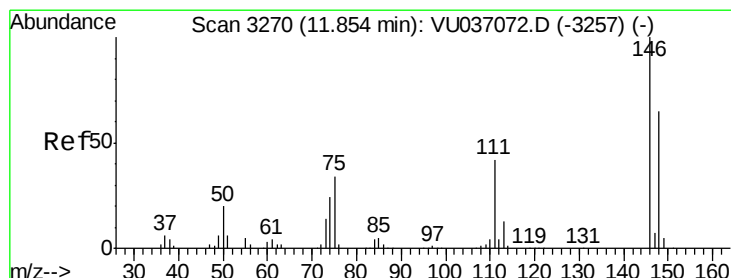
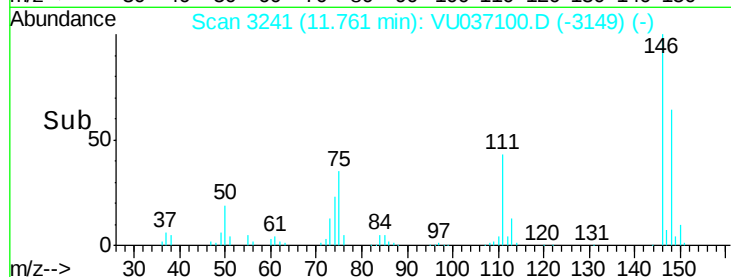
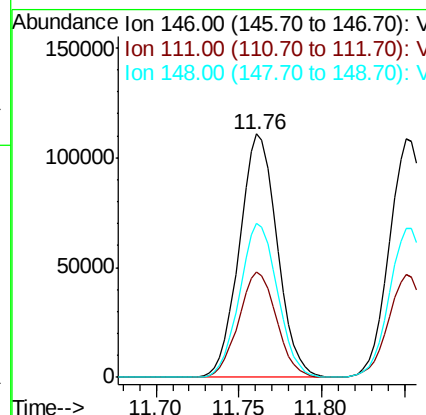
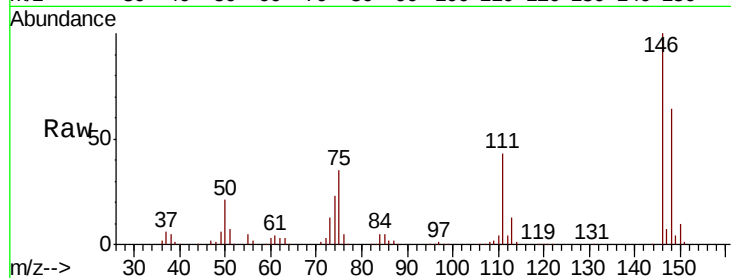




#62
 1,3-Dichlorobenzene
 Concen: 54.231 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

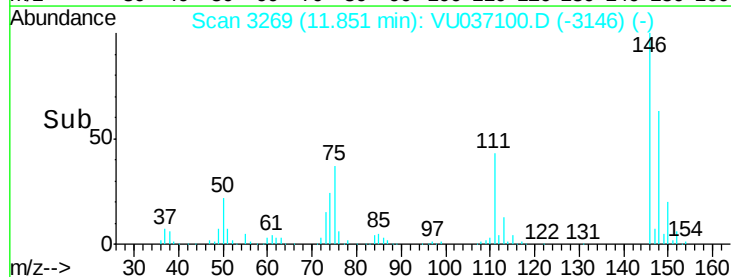
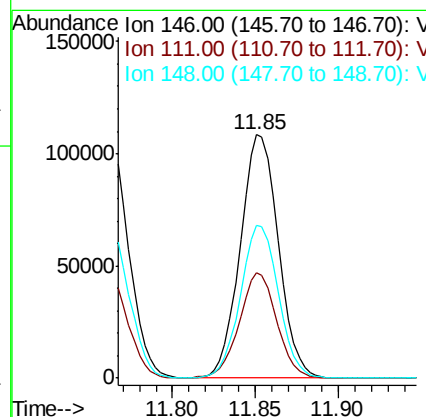
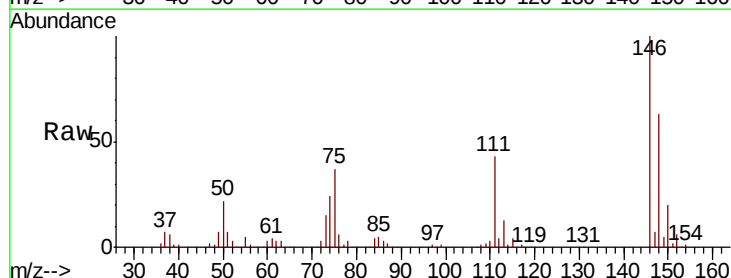
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05050

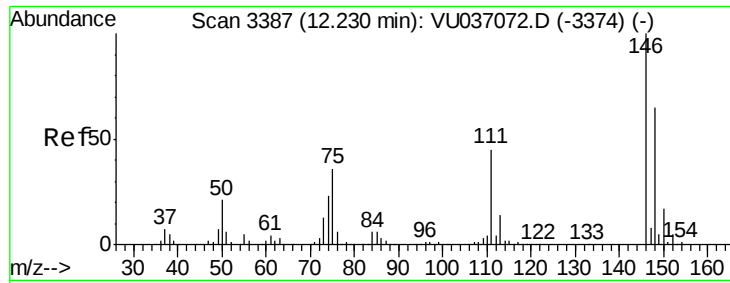
Tot Ion:146 Resp: 175263
 Ion Ratio Lower Upper
 146 100
 111 43.3 30.7 56.9
 148 63.5 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 54.225 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

Tgt Ion:146 Resp: 173136
 Ion Ratio Lower Upper
 146 100
 111 43.4 29.8 55.4
 148 62.6 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 54.480 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

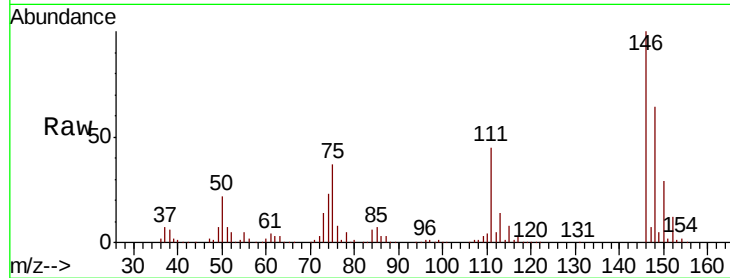
Tot Ion:146 Resp: 175797

Ion Ratio Lower Upper

146 100

111 44.7 35.4 53.0

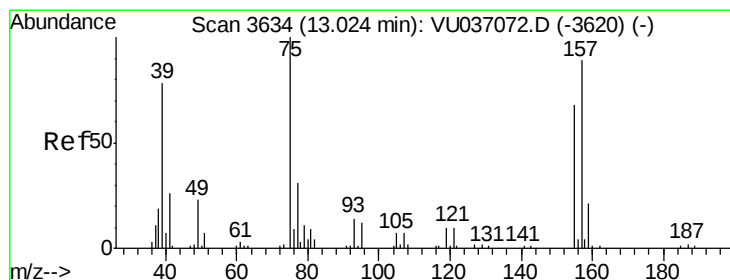
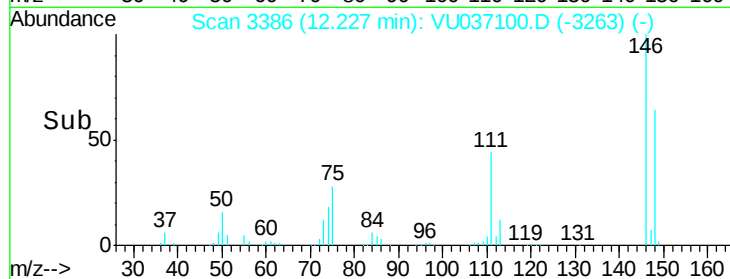
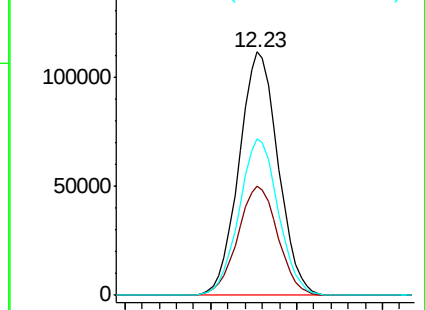
148 64.2 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 52.675 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

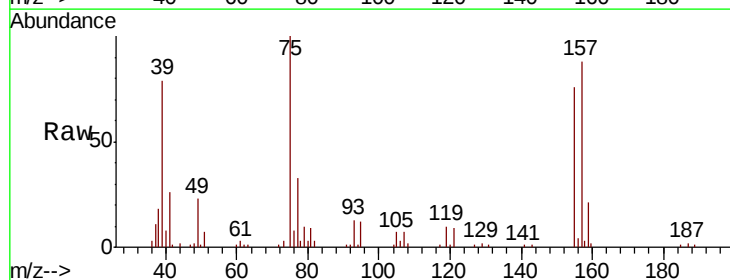
Tgt Ion: 75 Resp: 33721

Ion Ratio Lower Upper

75 100

155 76.3 55.7 83.5

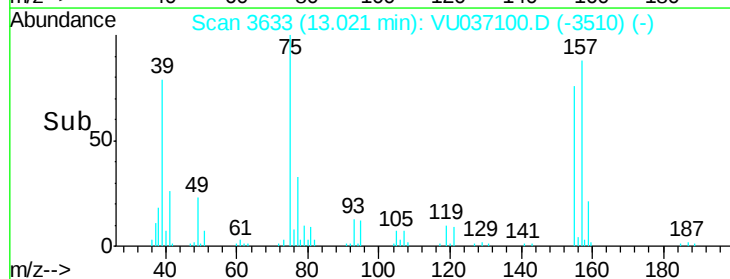
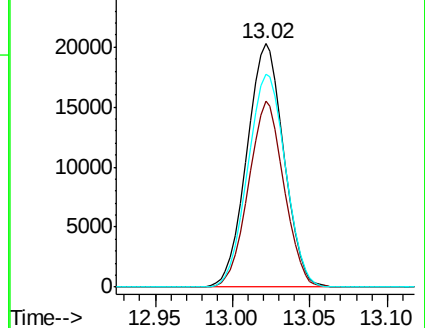
157 87.7 73.0 109.6

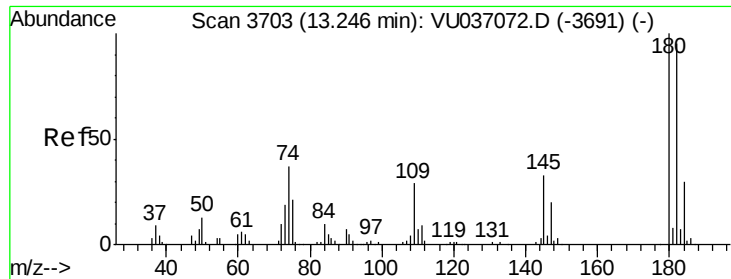


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

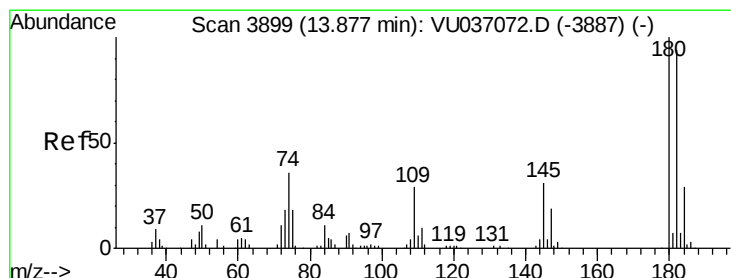
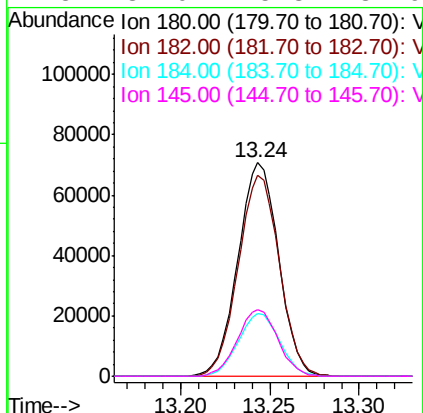
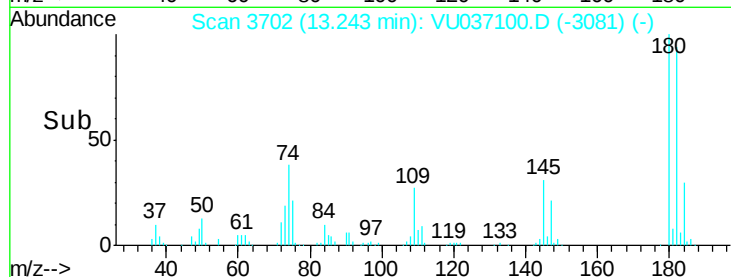
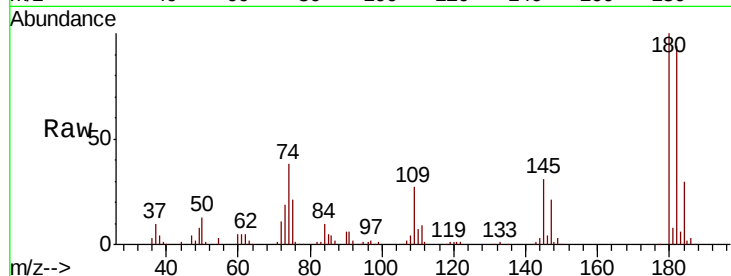




#67
 1,3,5-Trichlorobenzene
 Concen: 54.738 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

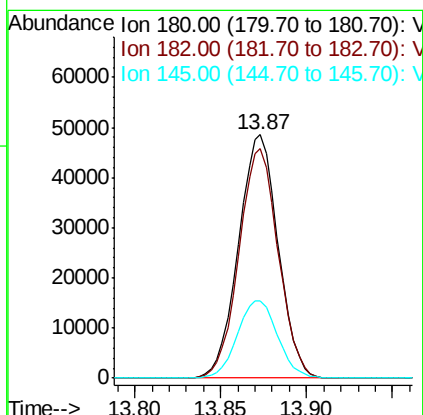
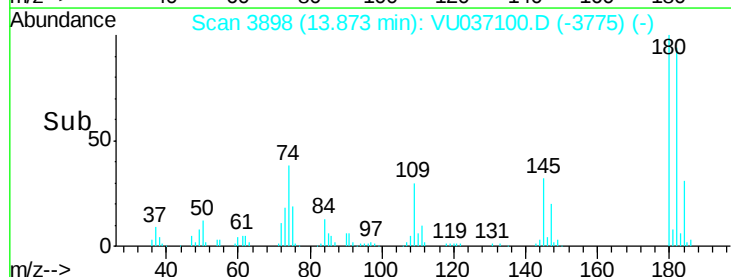
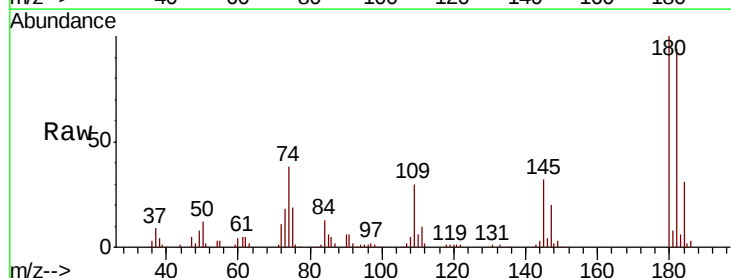
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

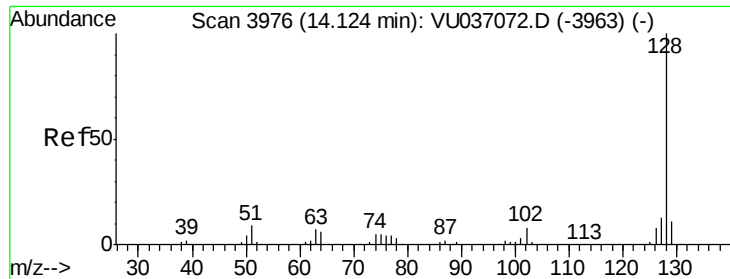
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.9	115.3
184	29.8	24.2	36.2
145	31.0	25.3	37.9



#68
 1,2,4-trichlorobenzene
 Concen: 50.596 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. -0.00 min
 Lab File: VU037100.D
 Acq: 06 Mar 2020 11:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	75.3	112.9
145	32.4	26.2	39.4





#69

Naphthalene

Concen: 41.069 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

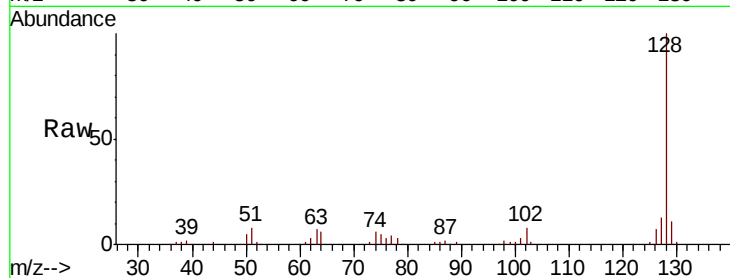
Tot Ion:128 Resp: 111420

Ion Ratio Lower Upper

128 100

127 13.4 11.0 16.4

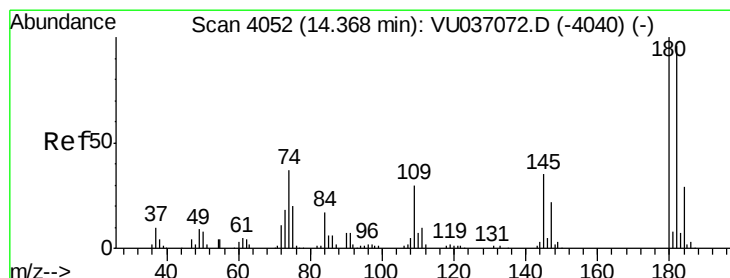
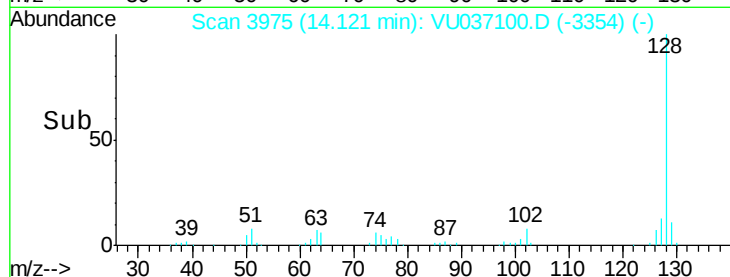
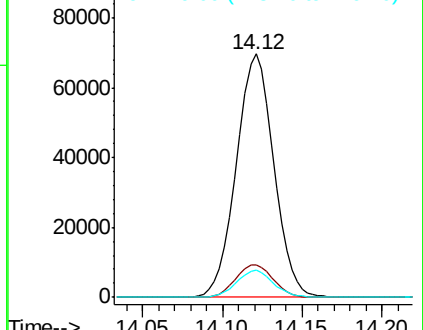
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.022 ug/L

RT: 14.37 min Scan# 4051

Delta R.T. -0.00 min

Lab File: VU037100.D

Acq: 06 Mar 2020 11:06

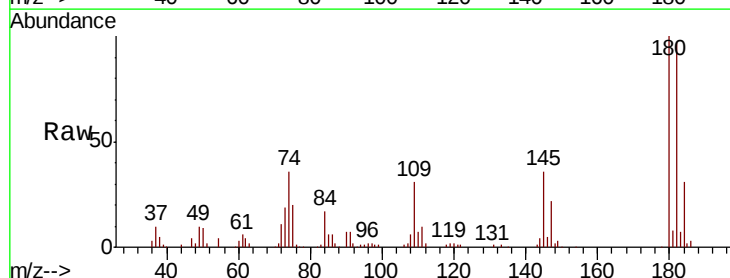
Tgt Ion:180 Resp: 75288

Ion Ratio Lower Upper

180 100

182 97.2 77.0 115.6

145 34.8 28.1 42.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

