

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062320\
 Data File : VU039053.D
 Acq On : 23 Jun 2020 20:48
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Quant Time: Jun 24 01:16:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 24 01:05:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	255727	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	259614	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	122035	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	96477	5.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.00%
7) Chloroethane-d5	1.93	69	82660	5.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.80%
11) 1,1-Dichloroethene-d2	2.59	63	179561	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.80%
20) 2-Butanone-d5	4.66	46	360795	53.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.76%
24) Chloroform-d	5.10	84	190430	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.40%
26) 1,2-Dichloroethane-d4	5.74	65	119084	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.20%
32) Benzene-d6	5.76	84	362914	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
36) 1,2-Dichloropropane-d6	6.72	67	122590	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.92	98	309509	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%
43) trans-1,3-Dichloropropene-	8.20	79	52180	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.65	63	294757	54.32	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.64%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	115844	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	113957	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	112701	4.925 ug/L	99
3) Chloromethane	1.53	50	135201	5.489 ug/L	96
5) Vinyl chloride	1.62	62	131079	5.277 ug/L	98
6) Bromomethane	1.87	94	66685	4.986 ug/L	97
8) Chloroethane	1.95	64	80777	5.395 ug/L	99
9) Trichlorofluoromethane	2.16	101	159309	5.009 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	87429	4.722 ug/L	99
12) 1,1-Dichloroethene	2.61	96	89875	5.075 ug/L	97
13) Acetone	2.66	43	226662	49.388 ug/L	100
14) Carbon disulfide	2.82	76	300249	5.085 ug/L	99
15) Methyl Acetate	2.98	43	57548	5.281 ug/L	96
16) Methylene chloride	3.08	84	117843	5.393 ug/L	98
17) Methyl tert-butyl Ether	3.40	73	262853	5.213 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	95741	5.052 ug/L	99
19) 1,1-Dichloroethane	3.91	63	200723	5.328 ug/L	98
21) 2-Butanone	4.74	43	383546	54.967 ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	108477	5.304 ug/L	97

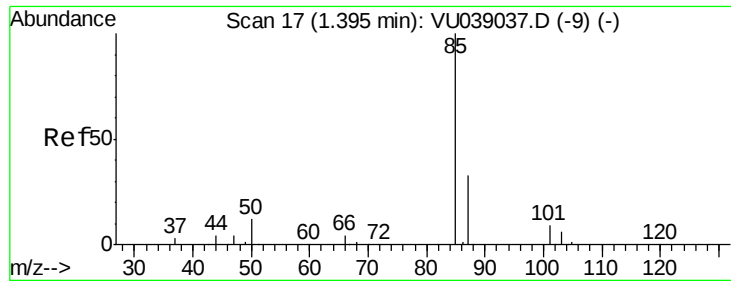
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062320\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	50186	5.332	ug/L	94
25) Chloroform	5.12	83	203163	5.368	ug/L	97
27) 1,2-Dichloroethane	5.83	62	143510	5.321	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	162329	5.010	ug/L	99
30) Cyclohexane	5.42	56	132483	4.395	ug/L	99
31) Carbon tetrachloride	5.56	117	131360	4.869	ug/L	100
33) Benzene	5.81	78	423346	5.190	ug/L	100
34) Trichloroethene	6.57	95	97873	4.961	ug/L	98
35) Methylcyclohexane	6.79	83	124931	4.267	ug/L	99
37) 1,2-Dichloropropane	6.82	63	117841	5.332	ug/L	100
38) Bromodichloromethane	7.13	83	142885	5.186	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	157072	5.128	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	921836	55.889	ug/L	100
42) Toluene	7.99	91	423089	5.225	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	149926	5.231	ug/L	95
45) 1,1,2-Trichloroethane	8.42	97	87402	5.321	ug/L	97
47) Tetrachloroethene	8.57	164	65659	4.617	ug/L	99
48) 2-Hexanone	8.70	43	696540	57.604	ug/L	99
49) Dibromochloromethane	8.83	129	95475	5.346	ug/L	99
50) 1,2-Dibromoethane	8.94	107	81070	5.221	ug/L	98
51) Chlorobenzene	9.47	112	254950	5.002	ug/L	98
52) Ethylbenzene	9.59	91	411751	4.838	ug/L	99
53) m,p-Xylene	9.71	106	158172	5.054	ug/L	98
54) o-Xylene	10.11	106	154001	5.123	ug/L	99
55) Styrene	10.13	104	274364	5.197	ug/L	100
56) Isopropylbenzene	10.50	105	379857	4.822	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	115769	5.271	ug/L	99
59) 1,2,3-Trichloropropane	10.83	75	86730	5.205	ug/L	100
61) Bromoform	10.30	173	53901	5.407	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	184497	5.084	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	186611	4.993	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	185858	5.108	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	20922	5.213	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	125093	4.658	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	117504	4.804	ug/L	98
69) Naphthalene	14.11	128	248326	4.758	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	114710	4.858	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.925 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

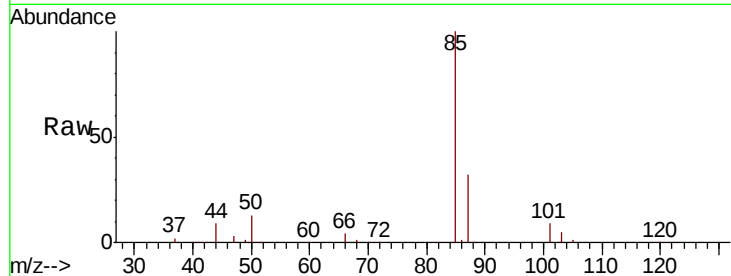
VSTD00512

Tot Ion: 85 Resp: 112701

Ion Ratio Lower Upper

85 100

87 32.7 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU039053.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU039053.D (-1) (-)

120000

100000

80000

60000

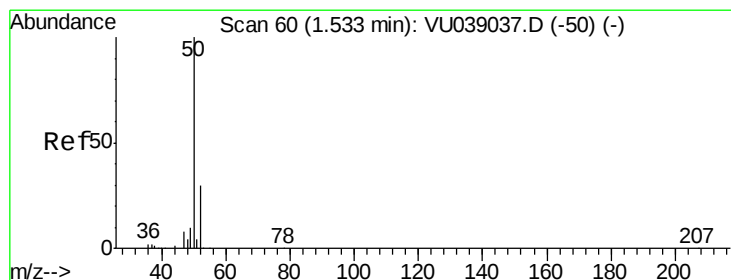
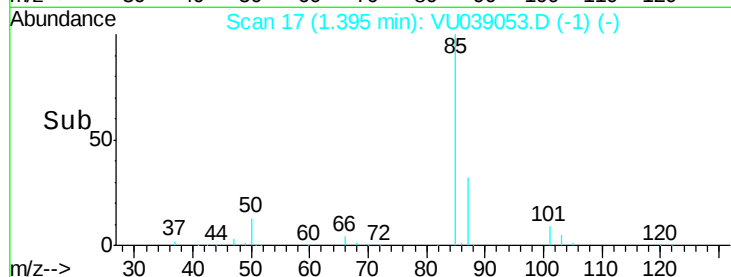
40000

20000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 5.489 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU039053.D

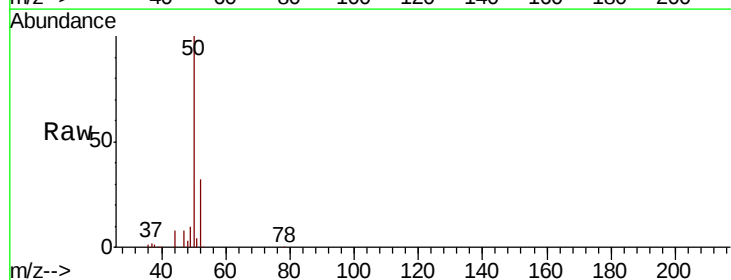
Acq: 23 Jun 2020 20:48

Tgt Ion: 50 Resp: 135201

Ion Ratio Lower Upper

50 100

52 32.4 21.1 39.3



Abundance Ion 50.05 (49.75 to 50.75): VU039053.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU039053.D (-1) (-)

120000

100000

80000

60000

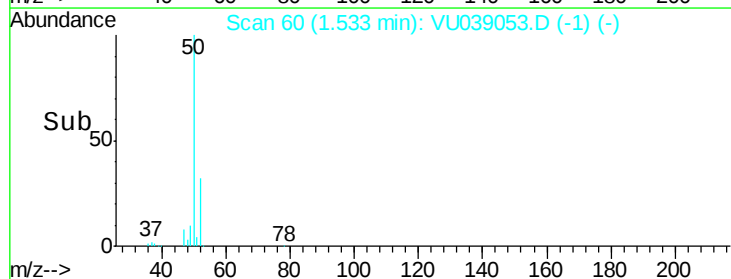
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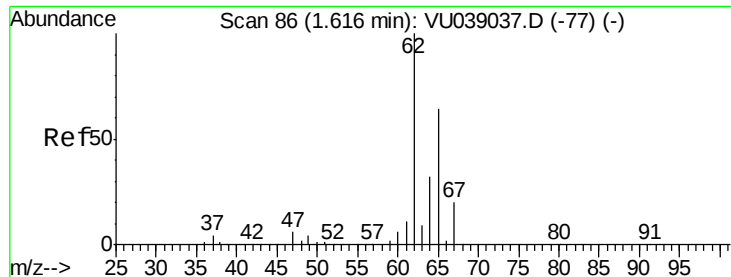
20000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 5.277 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

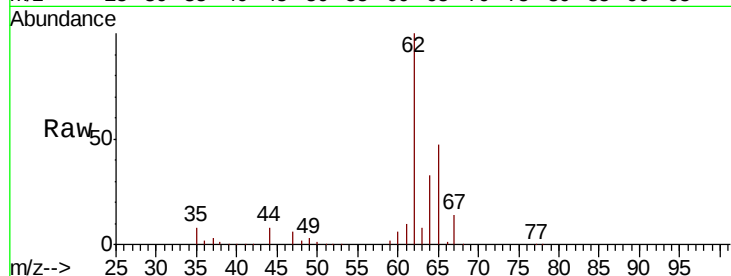
VSTD00512

Tot Ion: 62 Resp: 131079

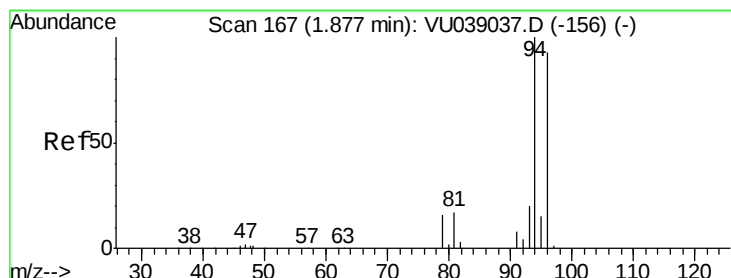
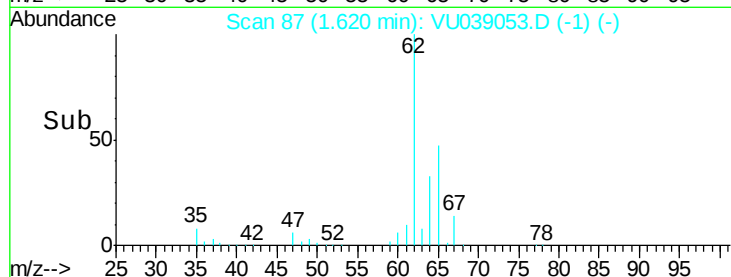
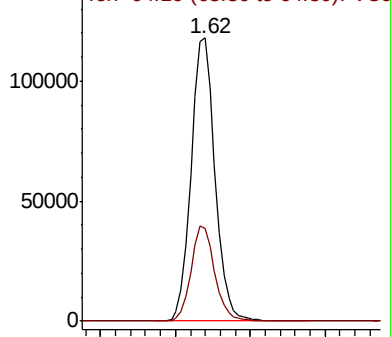
Ion Ratio Lower Upper

62 100

64 32.9 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU039053.D (-1) (-)



#6

Bromomethane

Concen: 4.986 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU039053.D

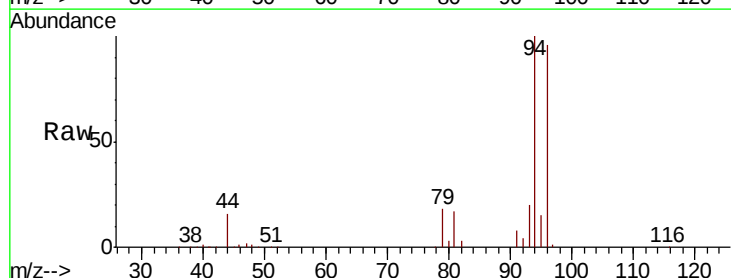
Acq: 23 Jun 2020 20:48

Tgt Ion: 94 Resp: 66685

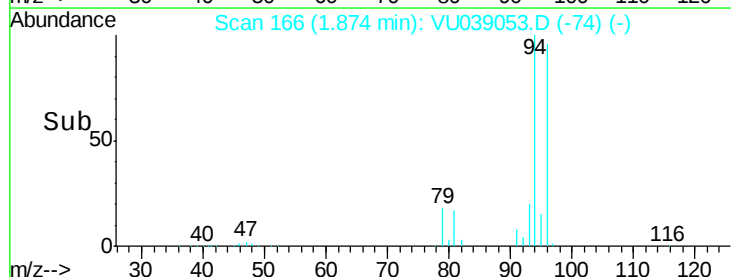
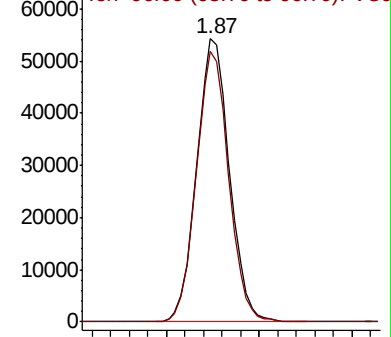
Ion Ratio Lower Upper

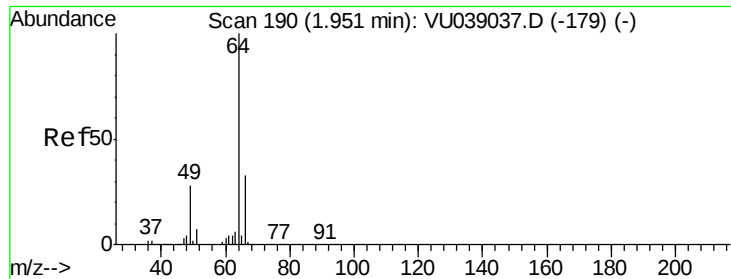
94 100

96 95.6 64.9 120.5



Abundance Ion 94.00 (93.70 to 94.70): VU039053.D (-74) (-)

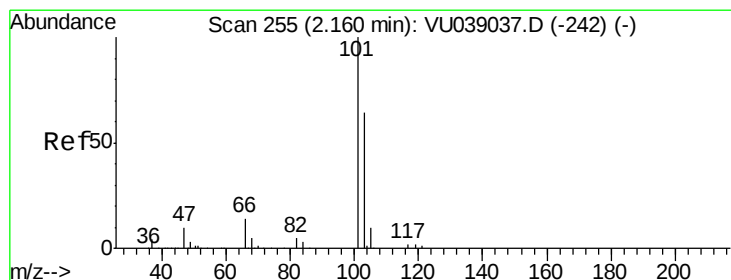
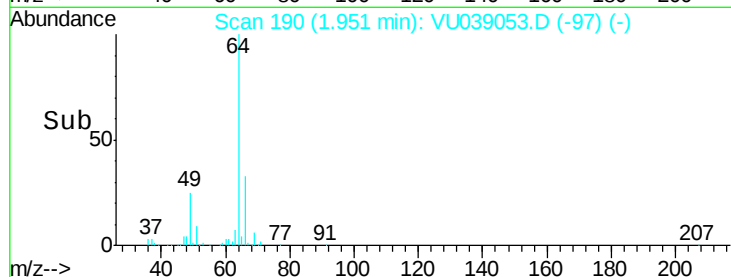
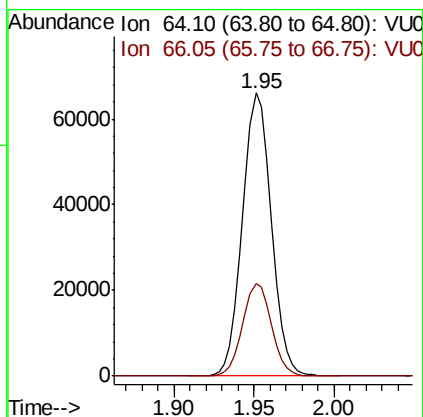
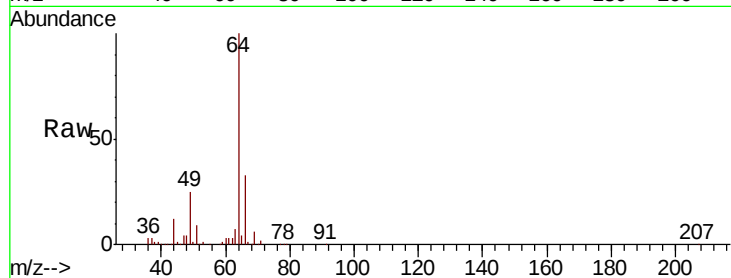




#8
Chloroethane
Concen: 5.395 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

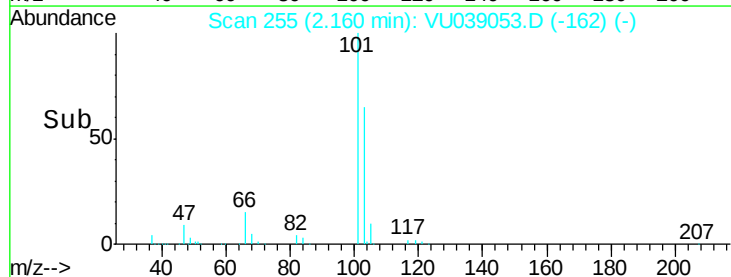
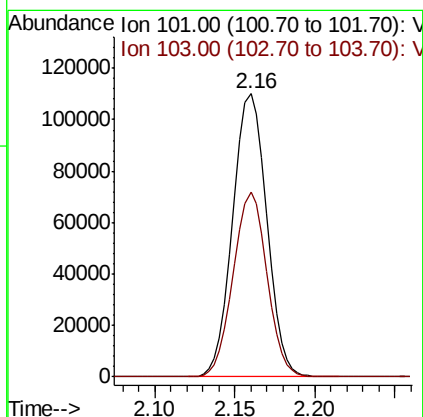
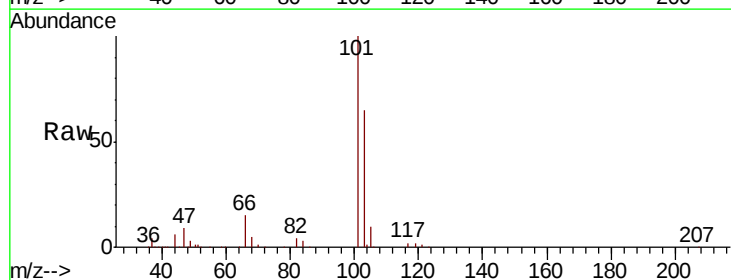
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

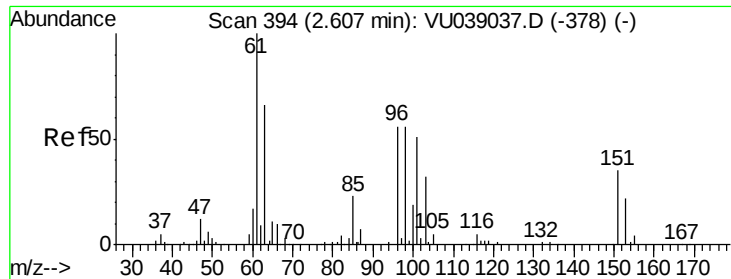
Tot Ion: 64 Resp: 80777
Ion Ratio Lower Upper
64 100
66 32.7 23.4 43.4



#9
Trichlorofluoromethane
Concen: 5.009 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion:101 Resp: 159309
Ion Ratio Lower Upper
101 100
103 64.7 51.4 77.0





#10

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

Concen: 4.722 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

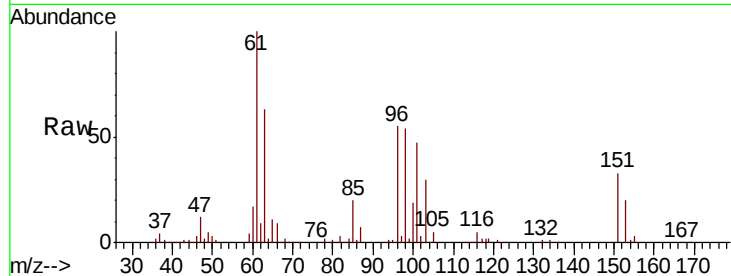
Tot Ion:101 Resp: 87429

Ion Ratio Lower Upper

101 100

85 43.2 36.2 54.4

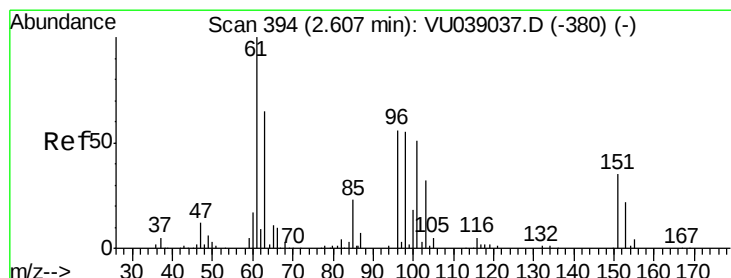
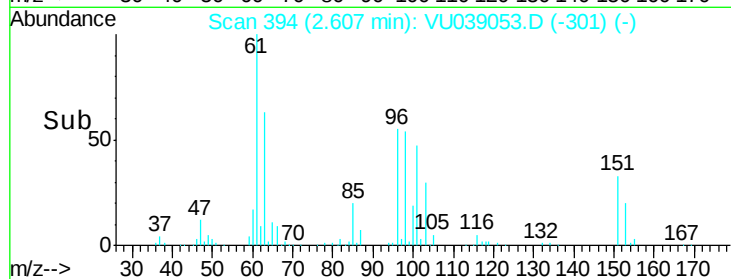
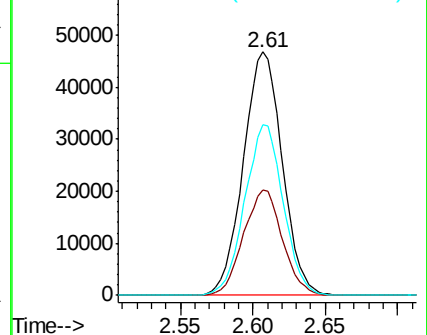
151 68.9 55.0 82.6



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: 5.075 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

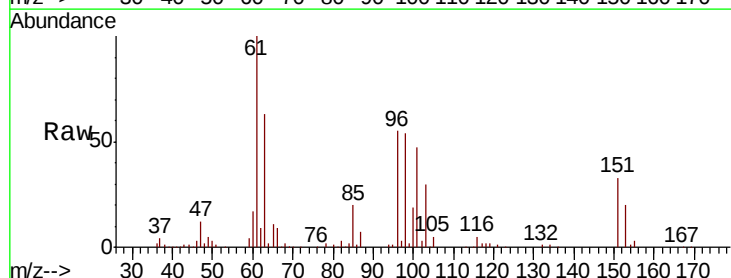
Tgt Ion: 96 Resp: 89875

Ion Ratio Lower Upper

96 100

61 182.1 125.1 232.3

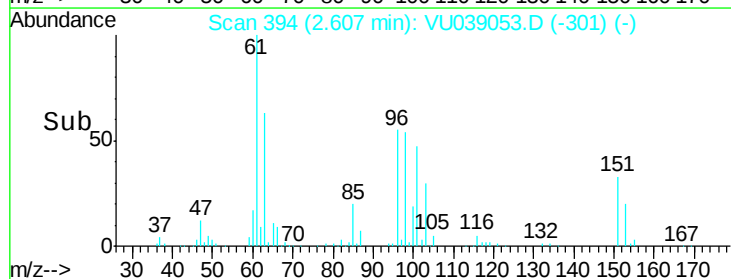
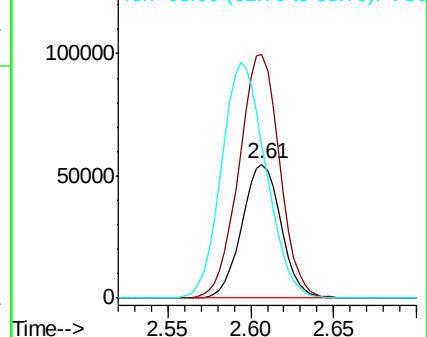
63 114.2 82.3 152.8

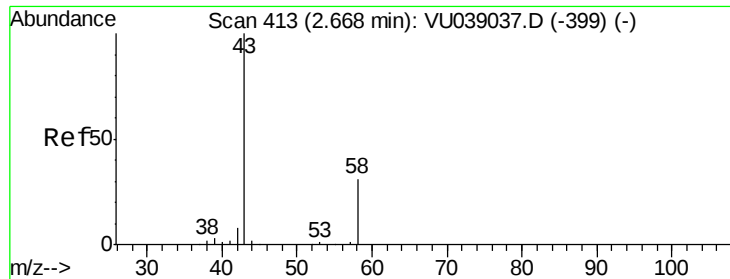


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.388 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

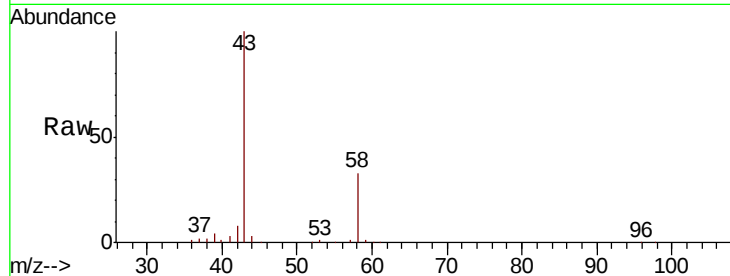
VSTD00512

Tot Ion: 43 Resp: 226662

Ion Ratio Lower Upper

43 100

58 32.0 0.0 64.4



Abundance Ion 43.05 (42.75 to 43.75): VU039053.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU039053.D (-320) (-)

2.66

100000

80000

60000

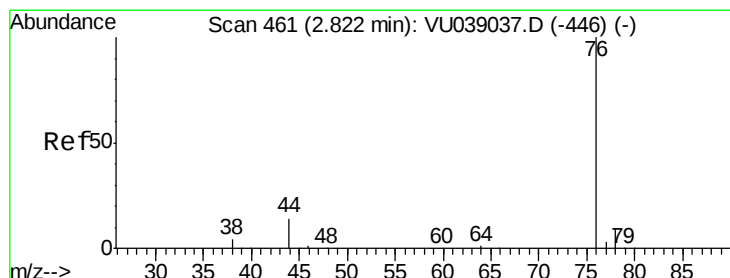
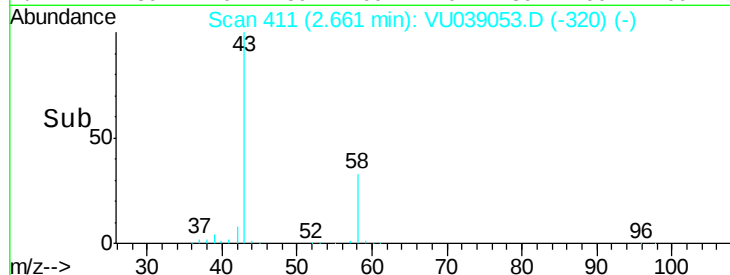
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20000

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Time-->

2.50 2.60 2.70 2.80



#14

Carbon disulfide

Concen: 5.085 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU039053.D

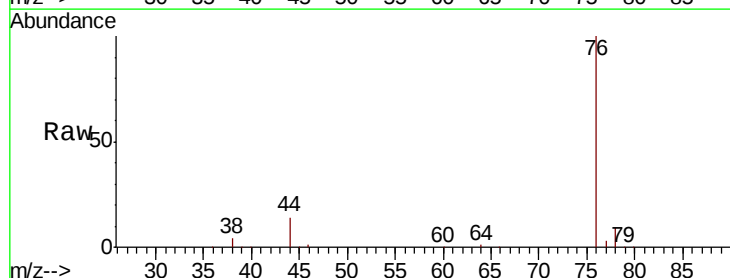
Acq: 23 Jun 2020 20:48

Tgt Ion: 76 Resp: 300249

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6



Abundance Ion 76.05 (75.75 to 76.75): VU039053.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU039053.D (-368) (-)

2.82

200000

150000

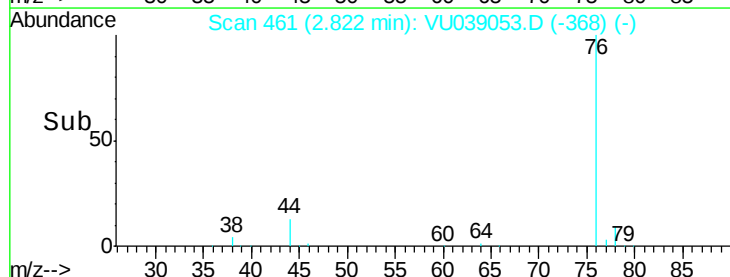
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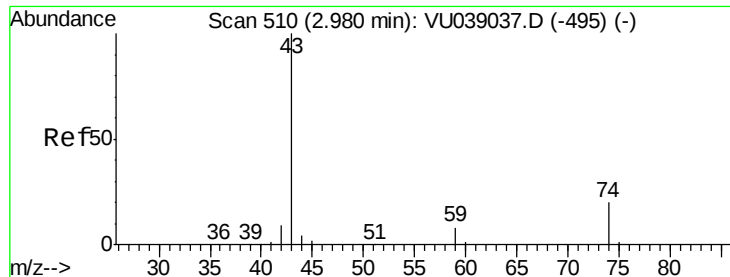
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Time-->

2.75 2.80 2.85 2.90





#15

Methvl Acetate

Concen: 5.281 ug/L

RT: 2.98 min Scan# 510

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

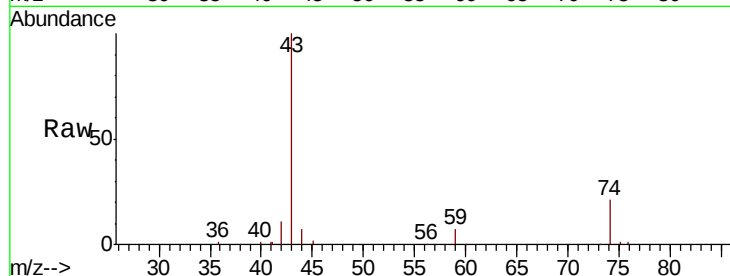
VSTD00512

Tot Ion: 43 Resp: 57548

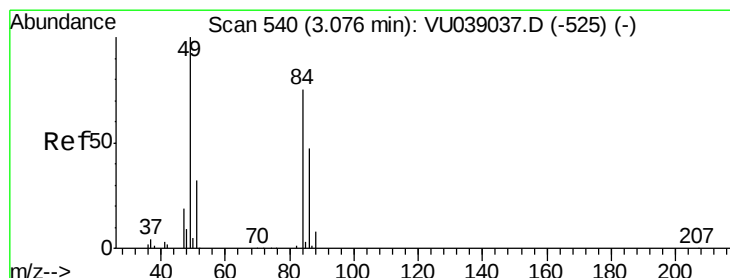
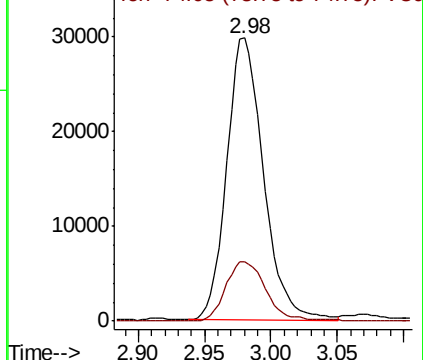
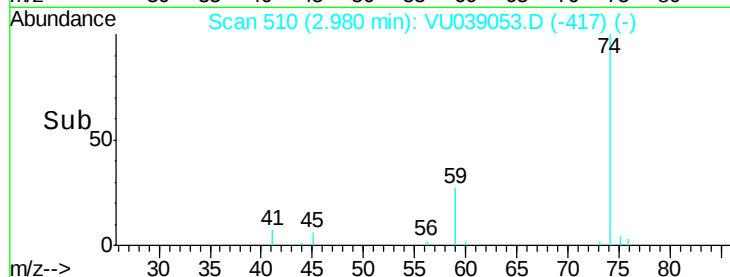
Ion Ratio Lower Upper

43 100

74 22.9 17.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU039053.D (-417) (-)



#16

Methylene chloride

Concen: 5.393 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

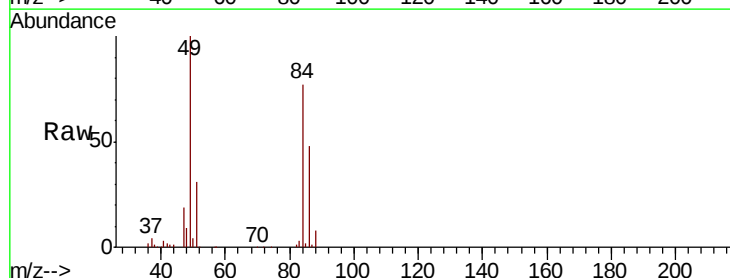
Tgt Ion: 84 Resp: 117843

Ion Ratio Lower Upper

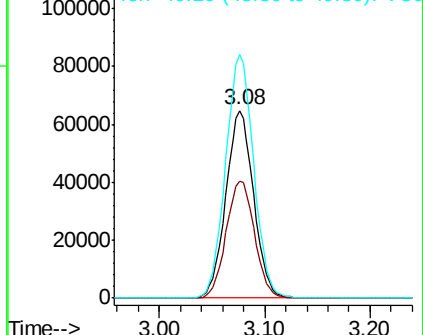
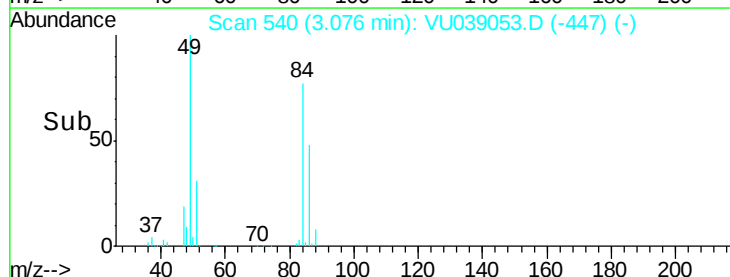
84 100

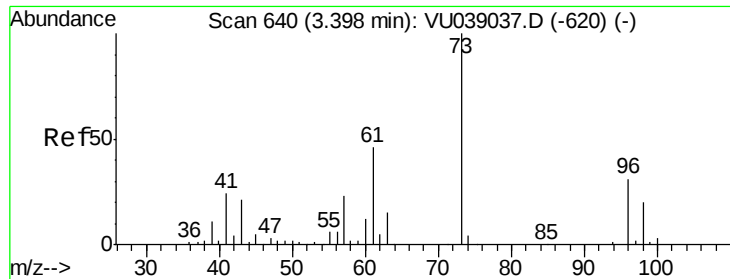
86 62.8 44.1 81.9

49 130.0 93.1 172.9



Abundance Ion 84.05 (83.75 to 84.75): VU039053.D (-447) (-)

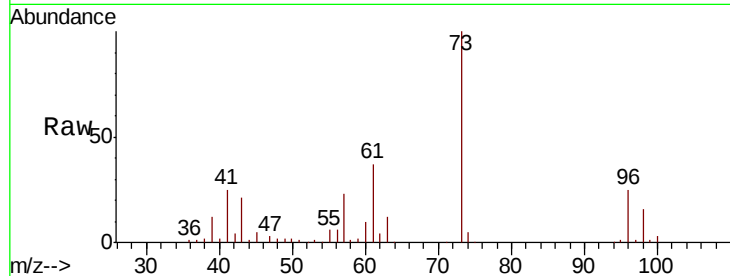




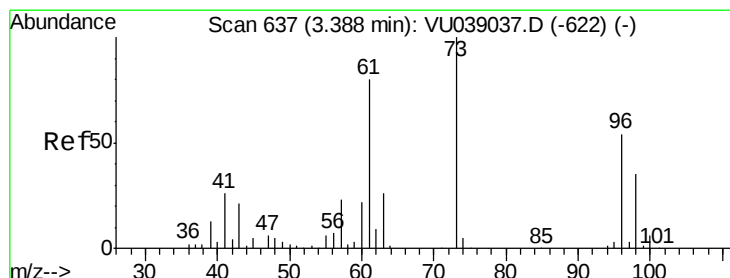
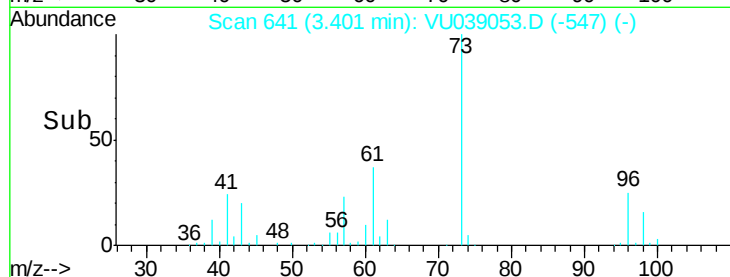
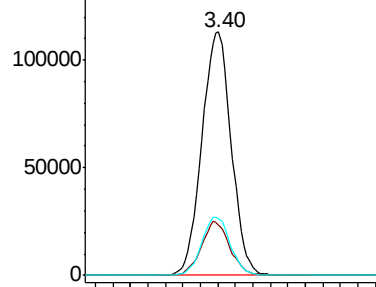
#17
Methvl tert-butvl Ether
Concen: 5.213 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion: 73 Resp: 262853
Ion Ratio Lower Upper
73 100
43 21.4 16.6 24.8
57 23.3 18.2 27.4

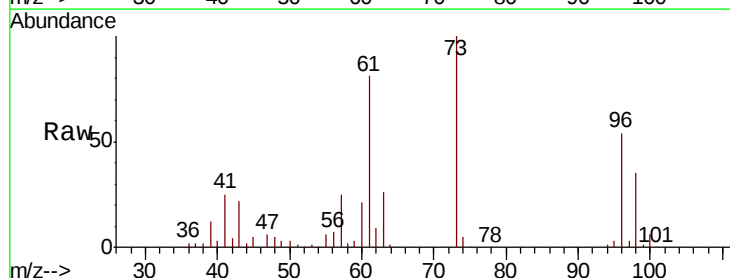


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

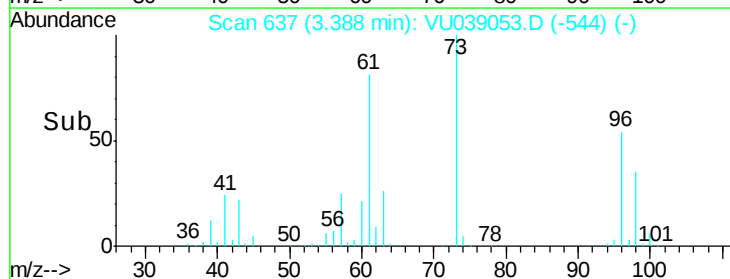
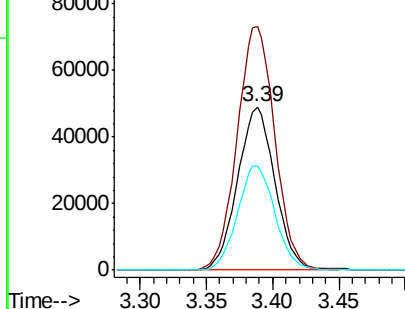


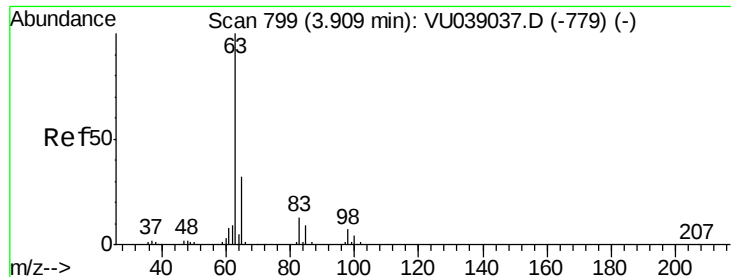
#18
trans-1,2-Dichloroethene
Concen: 5.052 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion: 96 Resp: 95741
Ion Ratio Lower Upper
96 100
61 149.4 103.5 192.3
98 63.8 44.9 83.5



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

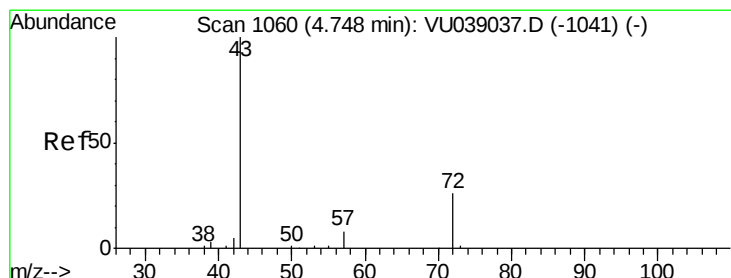
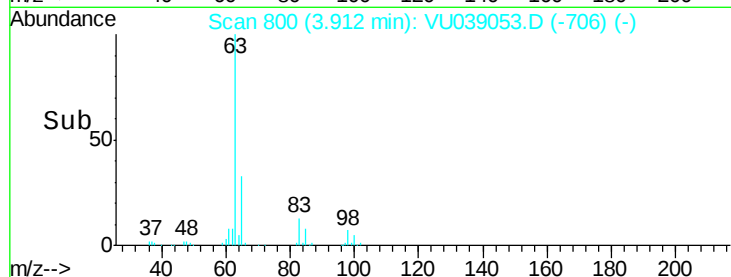
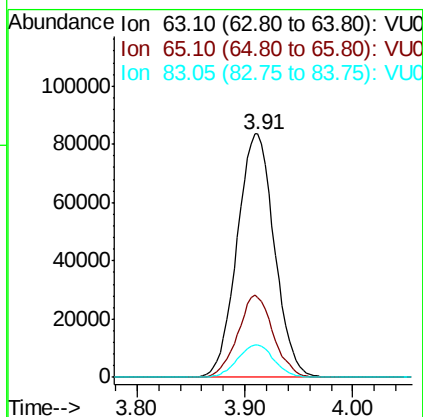
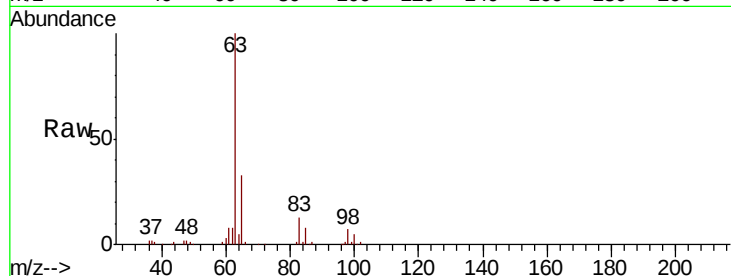




#19
 1,1-Dichloroethane
 Concen: 5.328 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

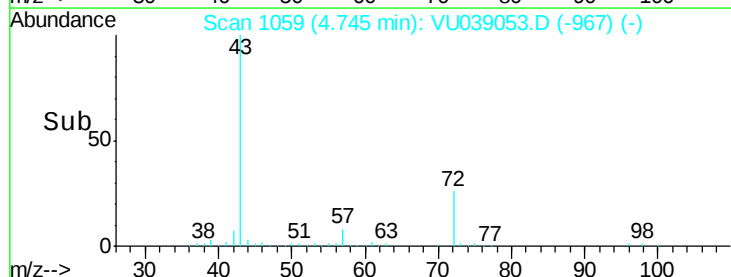
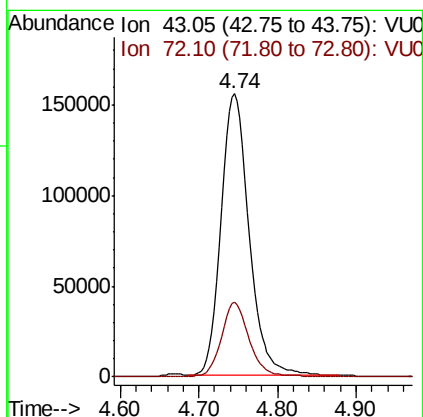
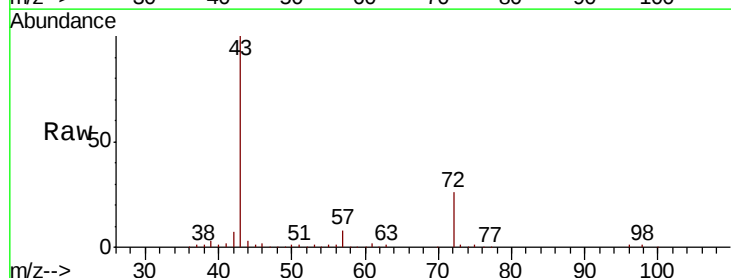
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

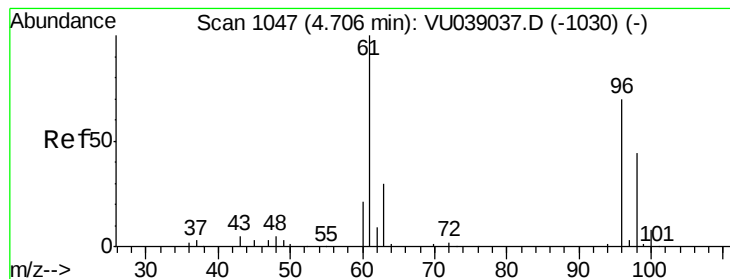
Tot Ion: 63 Resp: 200723
 Ion Ratio Lower Upper
 63 100
 65 33.0 22.1 41.1
 83 13.3 9.3 17.3



#21
 2-Butanone
 Concen: 54.967 ug/L
 RT: 4.74 min Scan# 1059
 Delta R.T. -0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Tgt Ion: 43 Resp: 383546
 Ion Ratio Lower Upper
 43 100
 72 26.5 13.1 39.3





#22

cis-1,2-Dichloroethene

Concen: 5.304 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

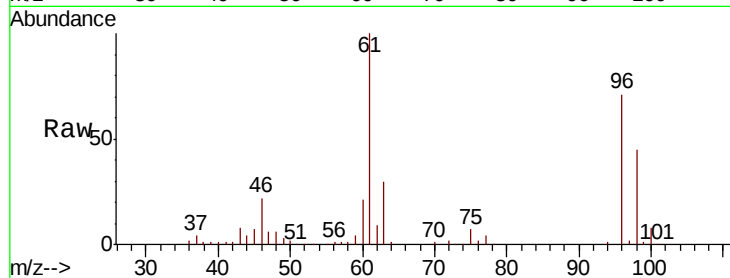
Tot Ion: 96 Resp: 108477

Ion Ratio Lower Upper

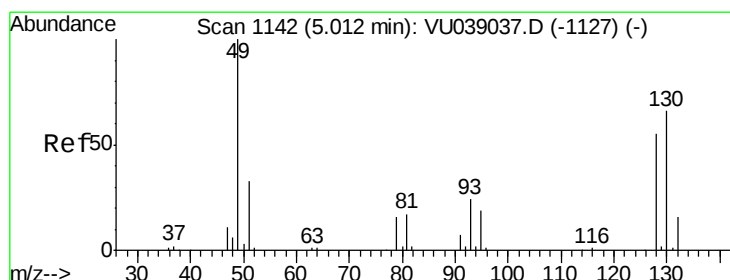
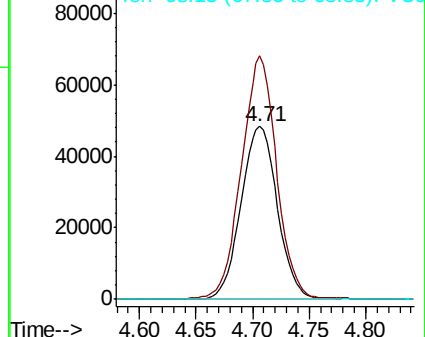
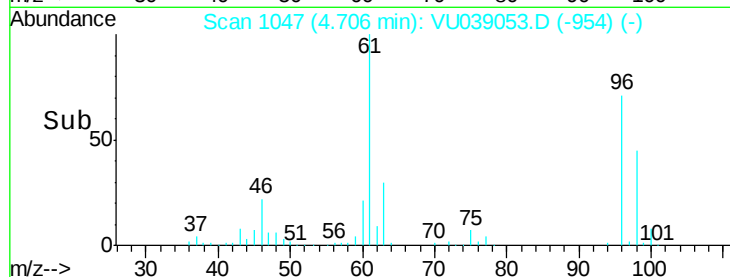
96 100

61 140.8 100.8 187.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039053.D (-954) (-)



#23

Bromochloromethane

Concen: 5.332 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Tgt Ion:128 Resp: 50186

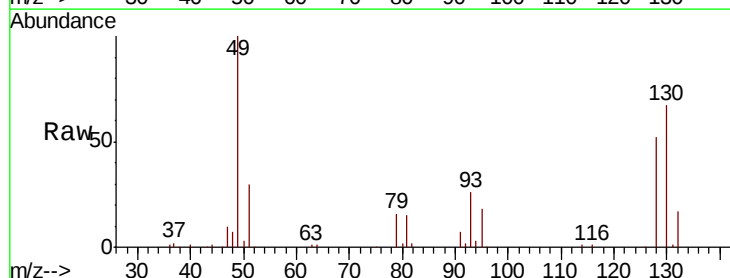
Ion Ratio Lower Upper

128 100

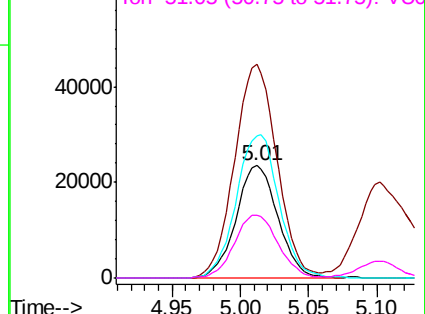
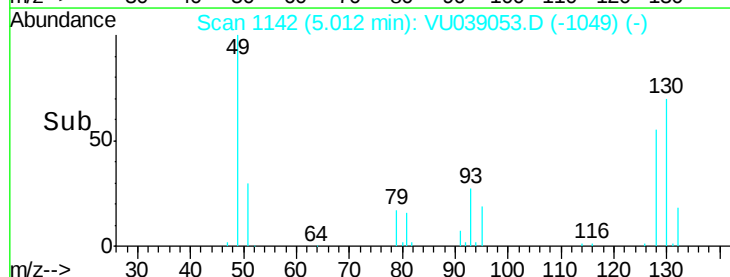
49 190.6 127.3 236.5

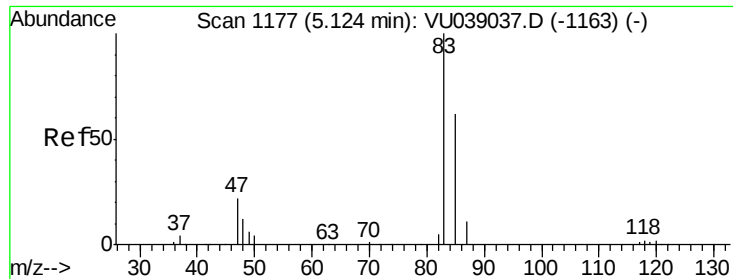
130 126.9 84.4 156.7

51 56.5 47.5 71.3



Abundance Ion 127.90 (127.60 to 128.60): VU039053.D (-1049) (-)

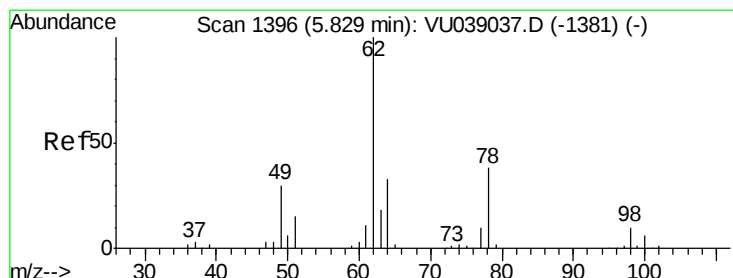
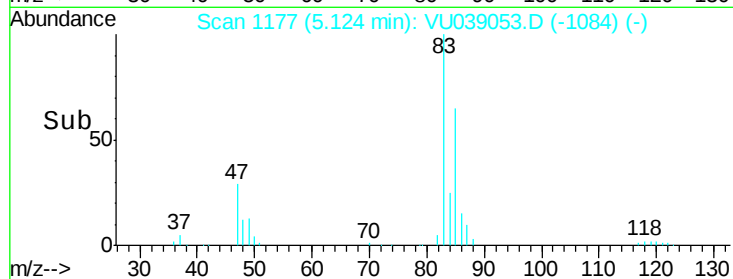
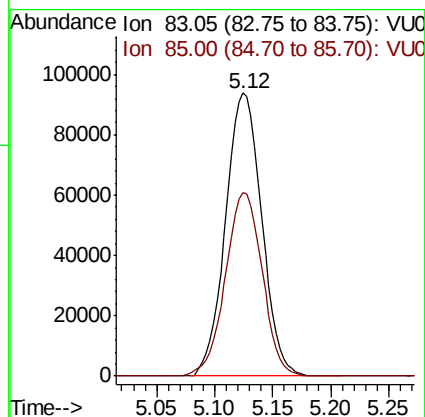
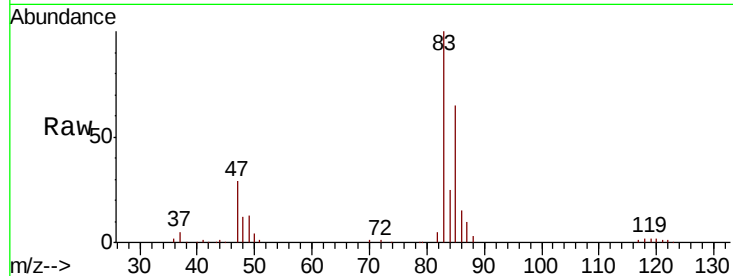




#25
Chloroform
Concen: 5.368 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

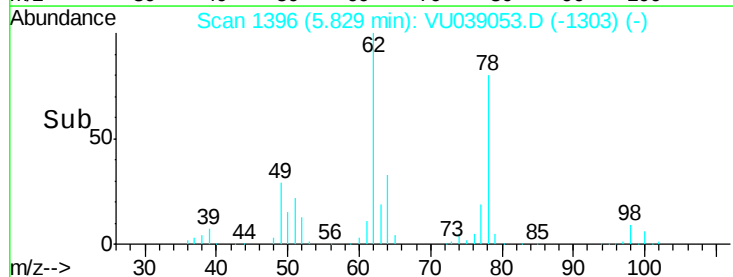
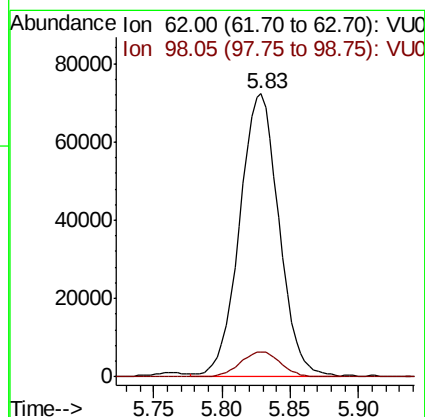
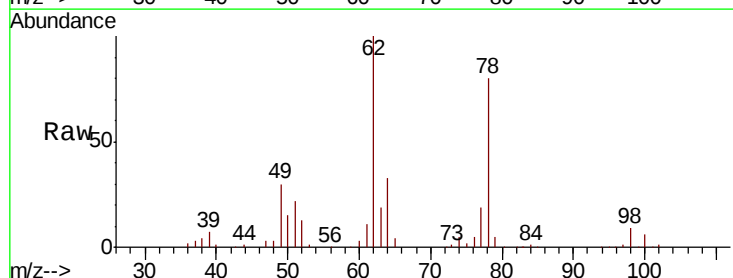
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

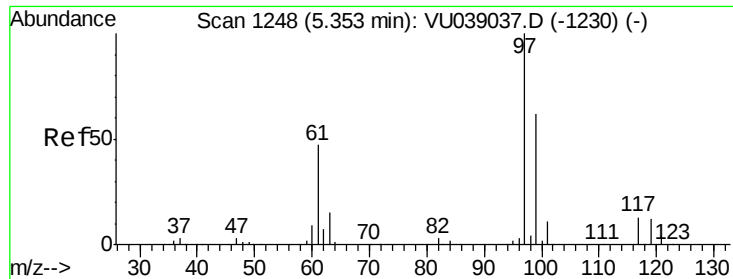
Tot Ion: 83 Resp: 203163
Ion Ratio Lower Upper
83 100
85 64.9 43.8 81.4



#27
1,2-Dichloroethane
Concen: 5.321 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion: 62 Resp: 143510
Ion Ratio Lower Upper
62 100
98 8.8 7.7 11.5

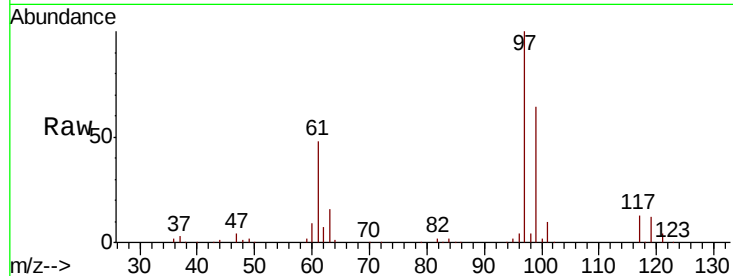




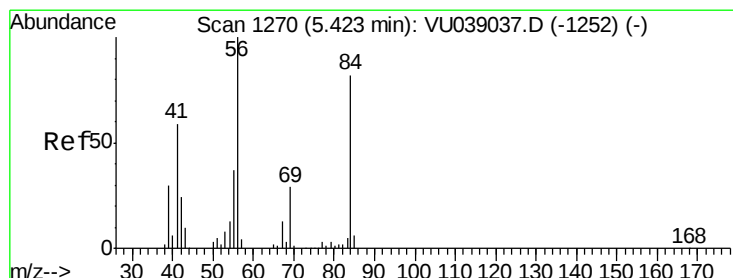
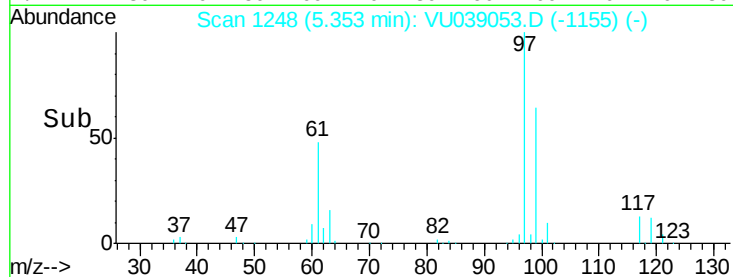
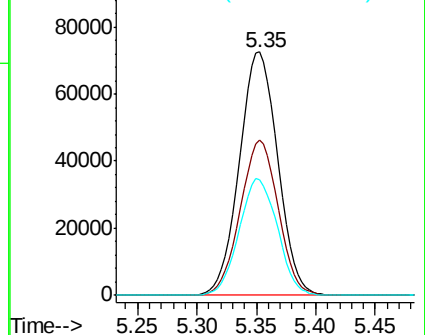
#29
1,1,1-Trichloroethane
Concen: 5.010 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion: 97 Resp: 162329
Ion Ratio Lower Upper
97 100
99 63.2 50.3 75.5
61 48.2 37.8 56.6

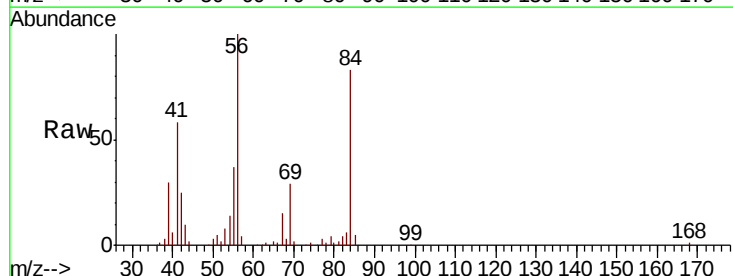


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

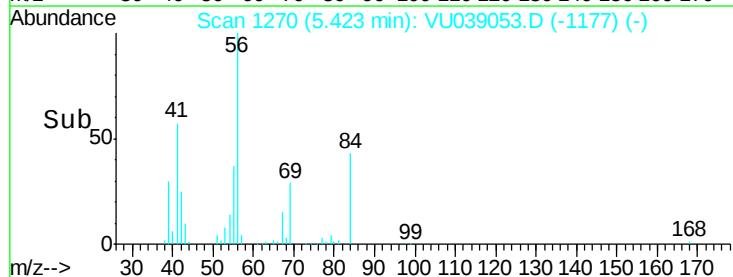
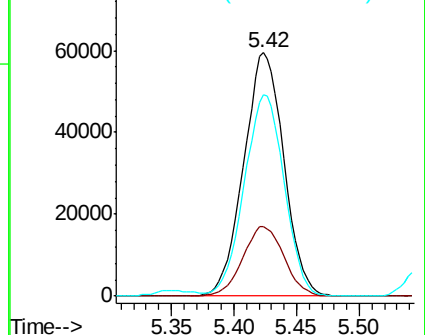


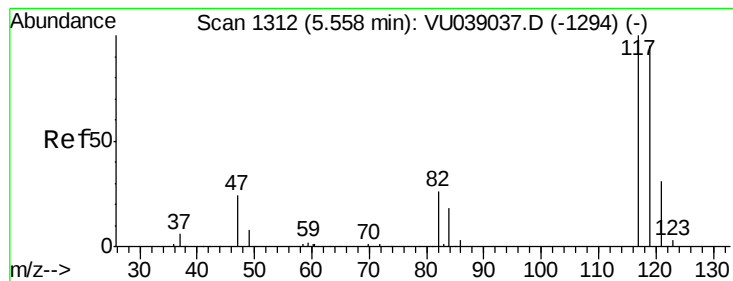
#30
Cyclohexane
Concen: 4.395 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion: 56 Resp: 132483
Ion Ratio Lower Upper
56 100
69 29.3 23.3 34.9
84 82.5 67.1 100.7



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: 4.869 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

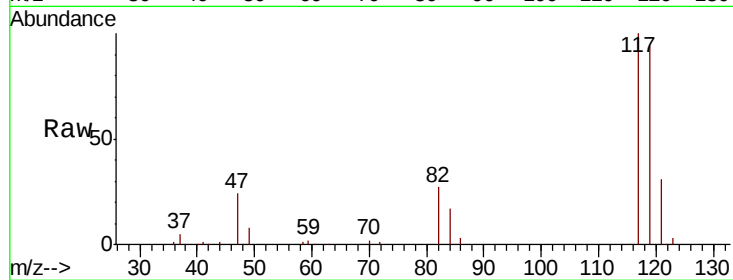
VSTD00512

Tot Ion:117 Resp: 131360

Ion Ratio Lower Upper

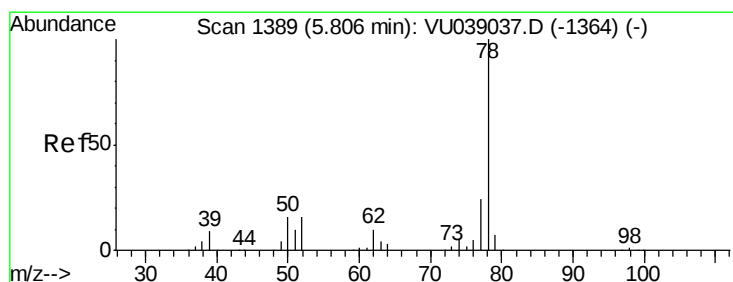
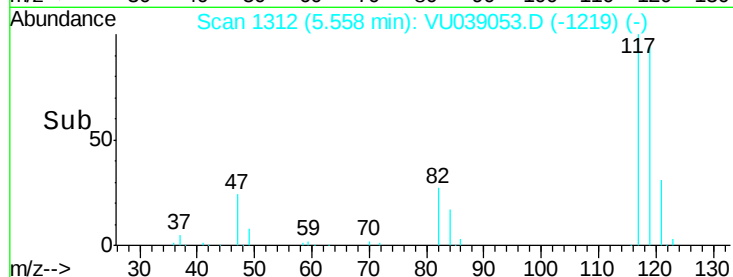
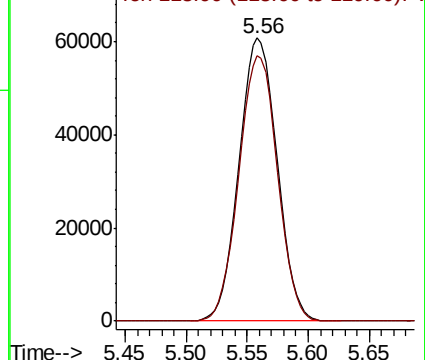
117 100

119 94.7 75.7 113.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.190 ug/L

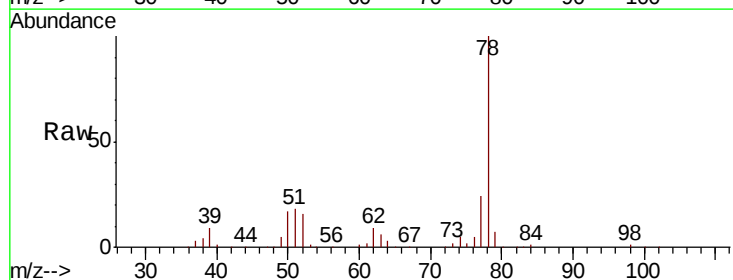
RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

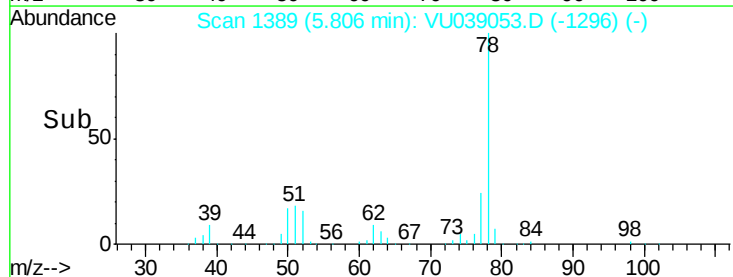
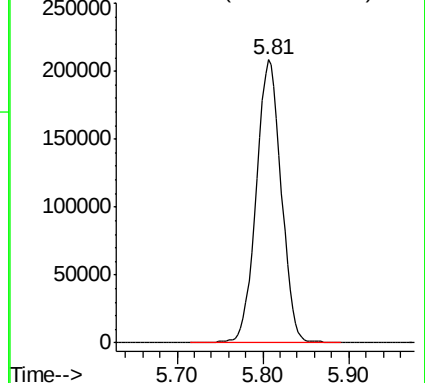
Lab File: VU039053.D

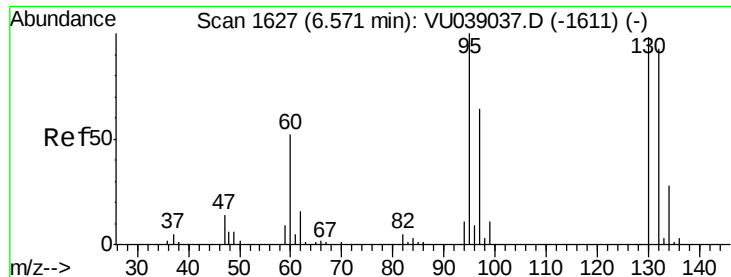
Acq: 23 Jun 2020 20:48

Tgt Ion: 78 Resp: 423346



Abundance Ion 78.10 (77.80 to 78.80): VU0

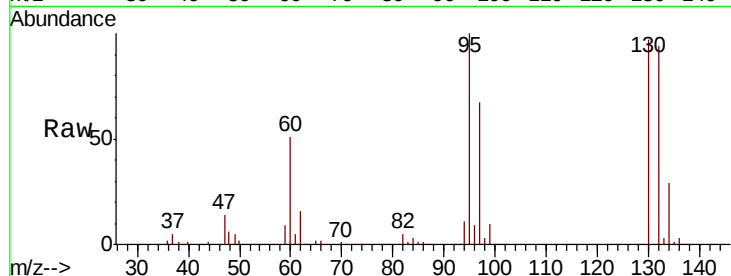




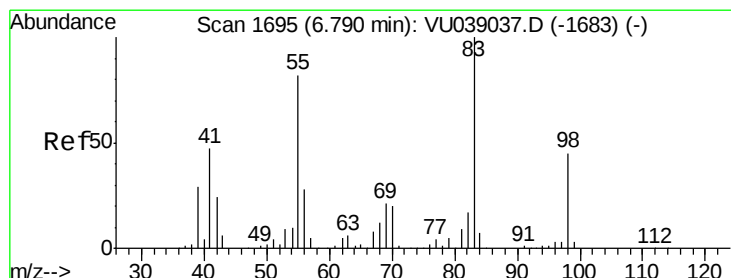
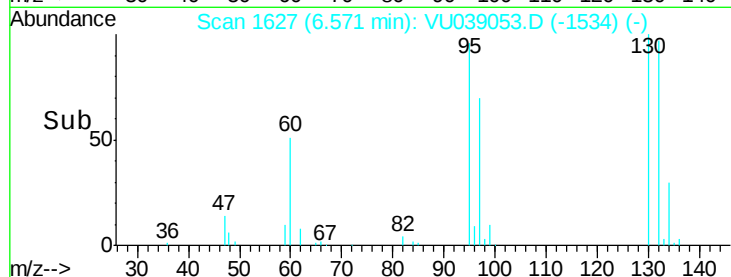
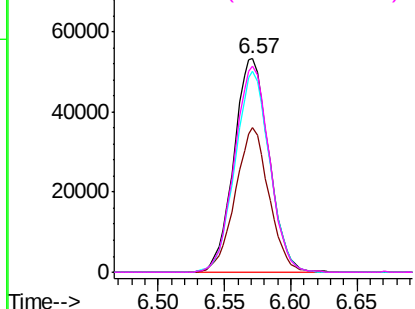
#34
 Trichloroethene
 Concen: 4.961 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion: 95 Resp: 97873
 Ion Ratio Lower Upper
 95 100
 97 67.4 45.1 83.7
 132 93.9 65.1 120.9
 130 96.6 68.6 127.4

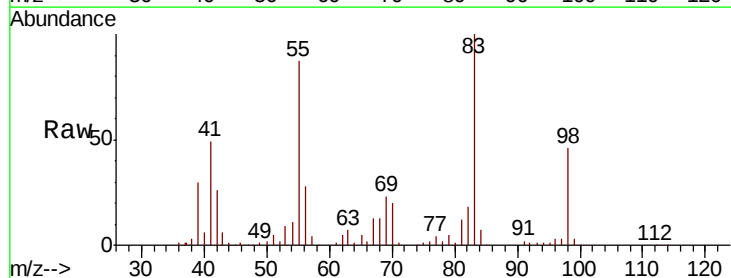


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

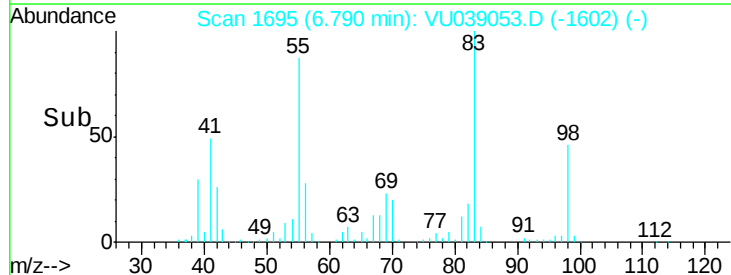
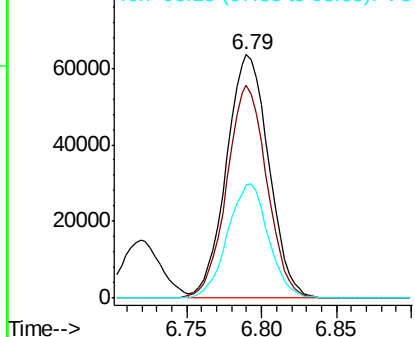


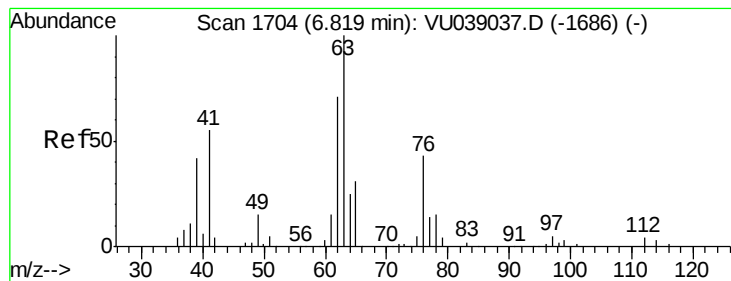
#35
 Methylcyclohexane
 Concen: 4.267 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Tgt Ion: 83 Resp: 124931
 Ion Ratio Lower Upper
 83 100
 55 83.0 65.5 98.3
 98 45.3 36.5 54.7



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





#37

1,2-Dichloropropane

Concen: 5.332 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

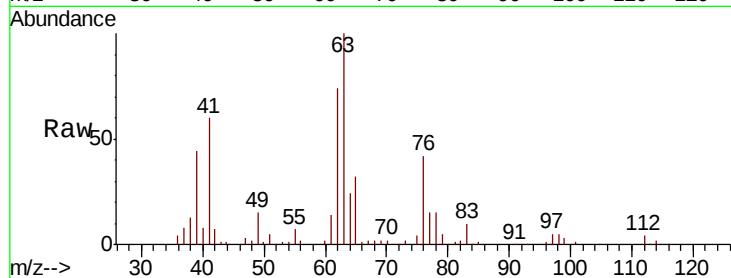
VSTD00512

Tot Ion: 63 Resp: 117841

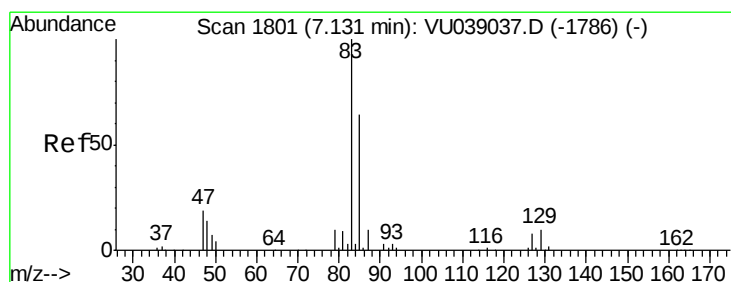
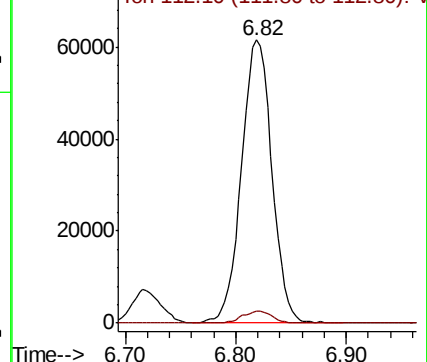
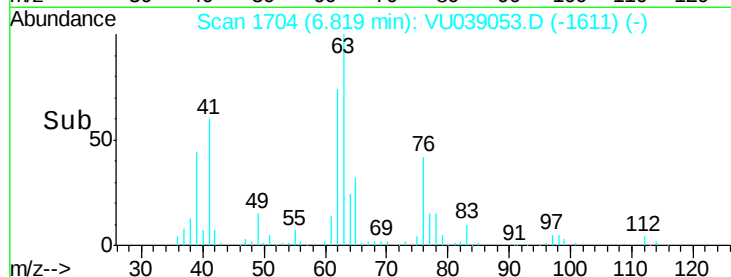
Ion Ratio Lower Upper

63 100

112 4.2 3.4 5.2



Abundance Ion 63.10 (62.80 to 63.80): VU039053.D (-1611) (-)



#38

Bromodichloromethane

Concen: 5.186 ug/L

RT: 7.13 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

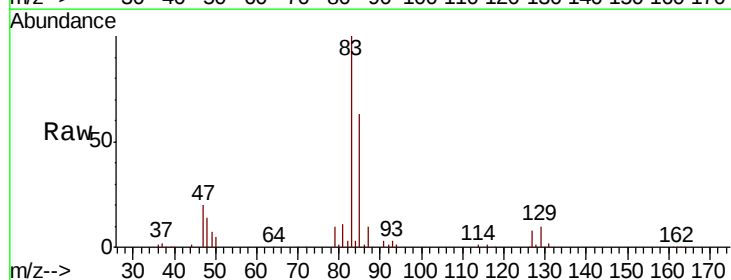
Tgt Ion: 83 Resp: 142885

Ion Ratio Lower Upper

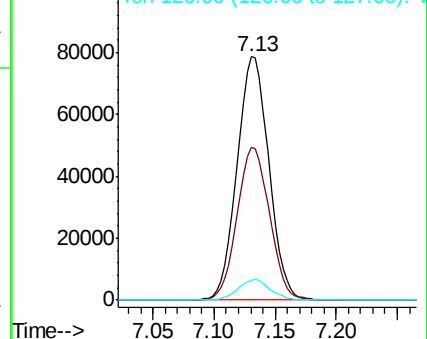
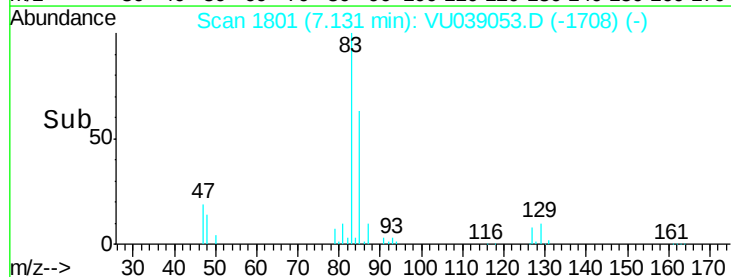
83 100

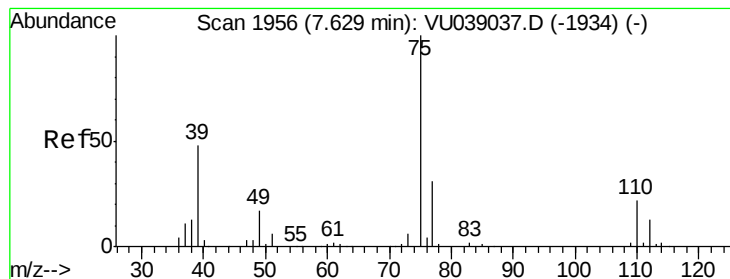
85 62.8 44.9 83.3

127 8.1 6.3 9.5



Abundance Ion 82.95 (82.65 to 83.65): VU039053.D (-1708) (-)



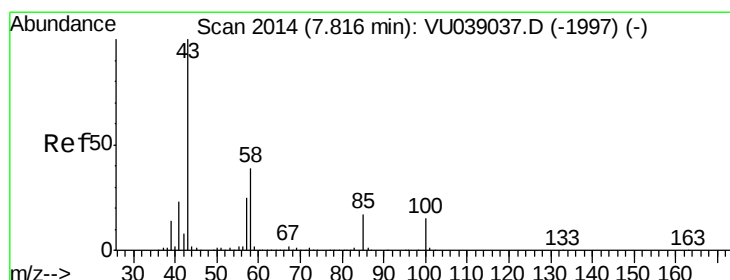
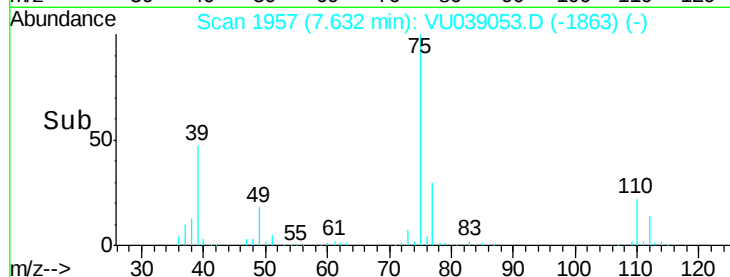
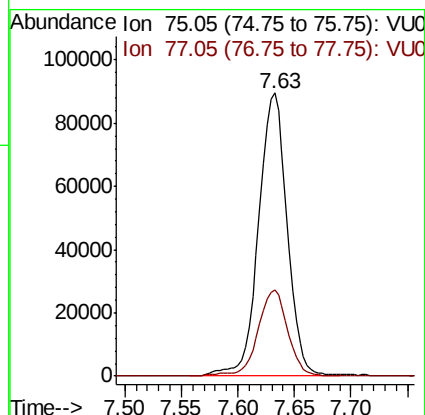
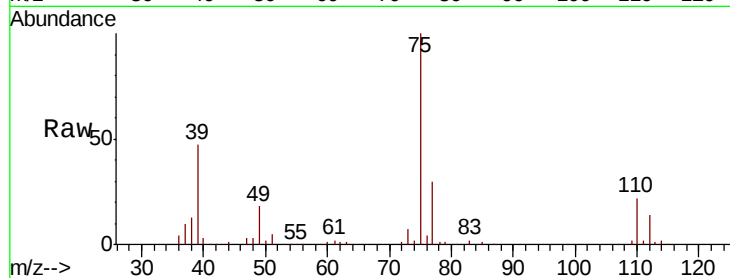


#39

cis-1,3-Dichloropropene
 Concen: 5.128 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

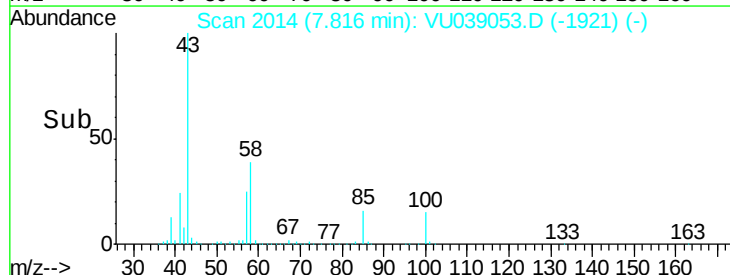
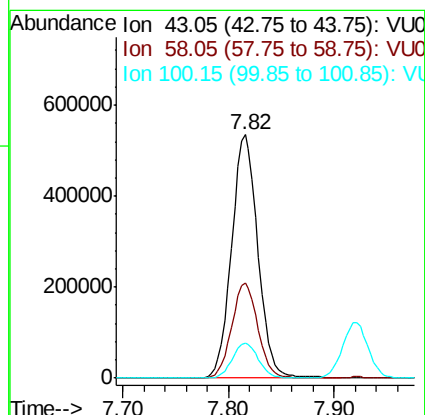
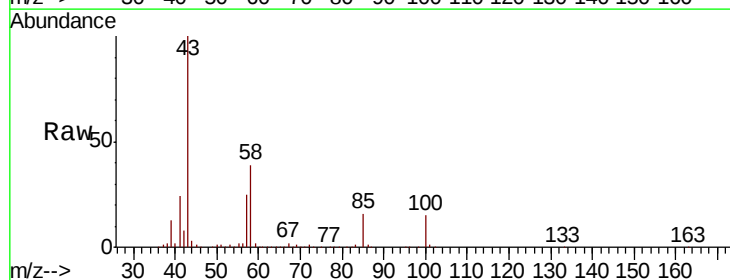
Tot Ion: 75 Resp: 157072
 Ion Ratio Lower Upper
 75 100
 77 30.4 21.6 40.0

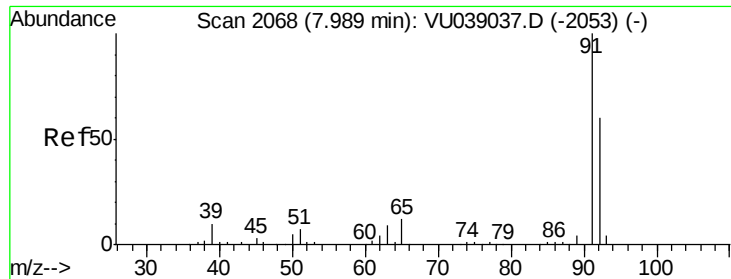


#40

4-Methyl-2-pentanone
 Concen: 55.889 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Tgt Ion: 43 Resp: 921836
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.3 46.9
 100 14.4 11.6 17.4





#42

Toluene

Concen: 5.225 ug/L

RT: 7.99 min Scan# 2068

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

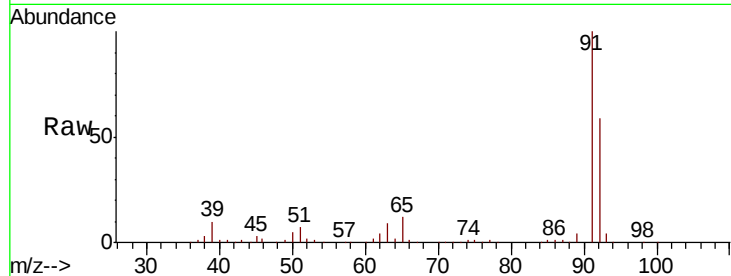
VSTD00512

Tot Ion: 91 Resp: 423089

Ion Ratio Lower Upper

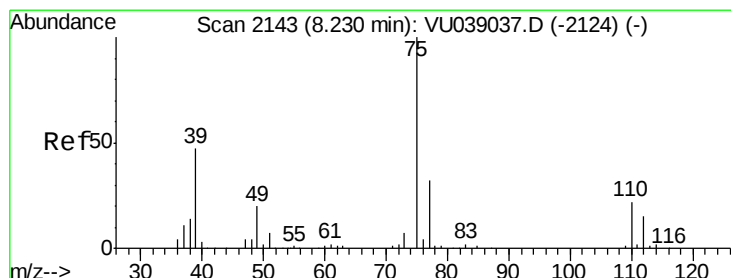
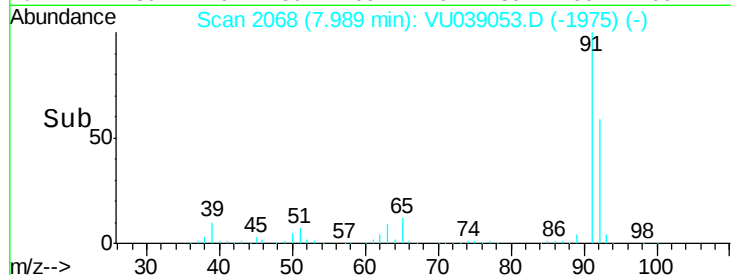
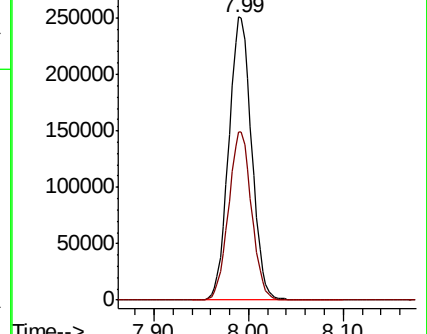
91 100

92 59.4 42.1 78.1



Abundance Ion 91.15 (90.85 to 91.85): VU039037.D (-2053) (-)

Ion 92.15 (91.85 to 92.85): VU039037.D (-2053) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.231 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VU039053.D

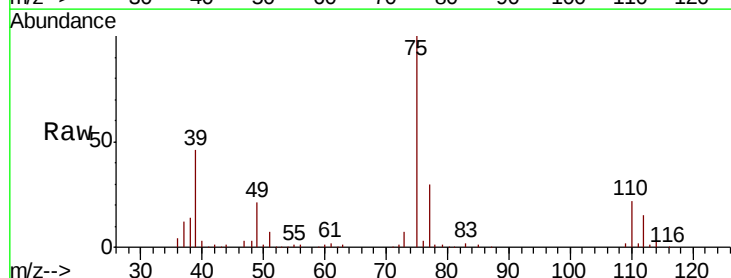
Acq: 23 Jun 2020 20:48

Tgt Ion: 75 Resp: 149926

Ion Ratio Lower Upper

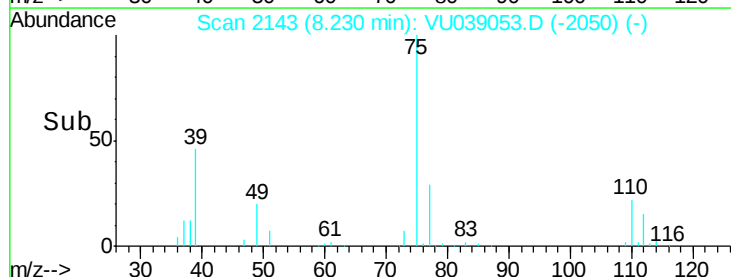
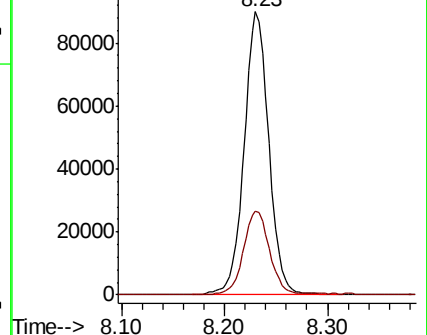
75 100

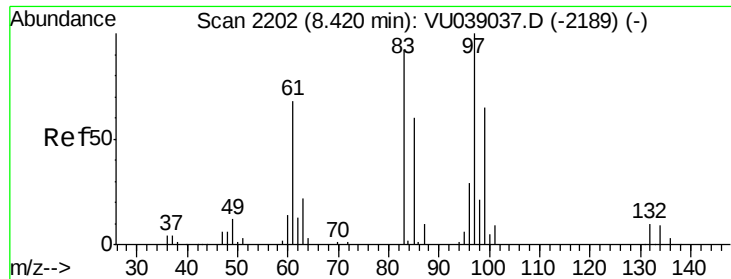
77 29.8 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU039037.D (-2124) (-)

Ion 77.05 (76.75 to 77.75): VU039037.D (-2124) (-)

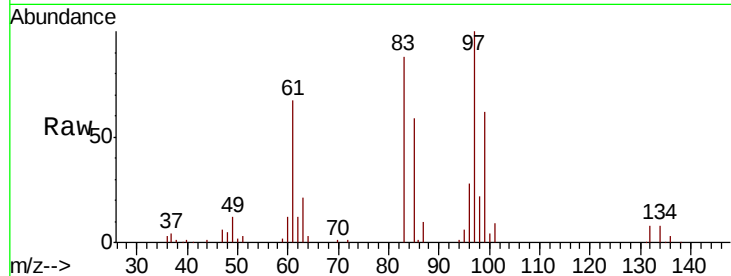




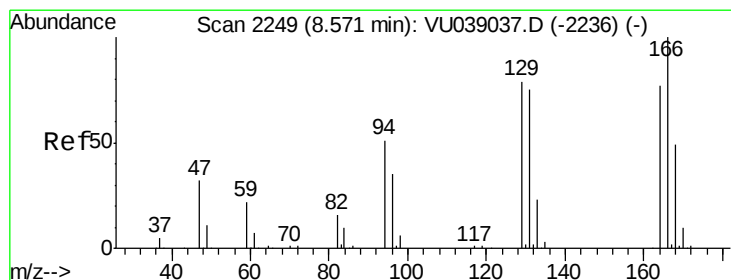
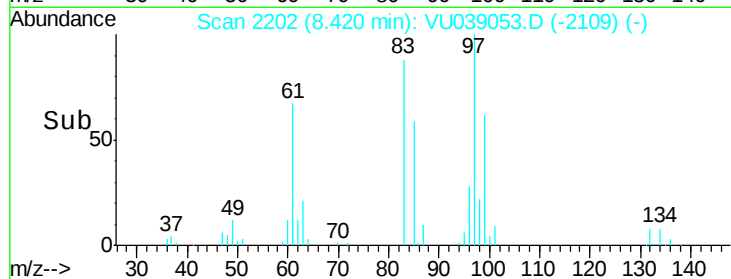
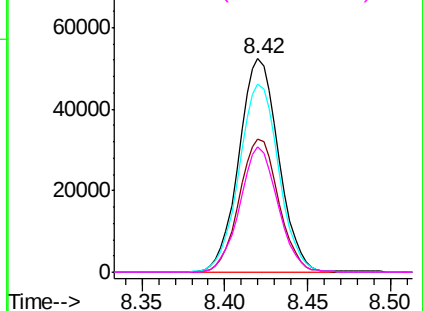
#45
 1,1,2-Trichloroethane
 Concen: 5.321 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:	97	Resp:	87402
Ion	Ratio	Lower	Upper
97	100		
99	62.2	45.4	84.4
83	88.1	64.4	119.6
85	58.7	41.7	77.5

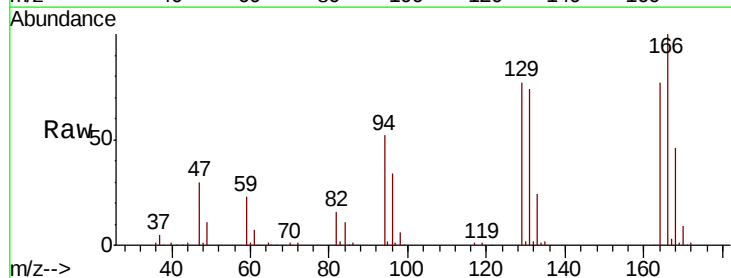


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

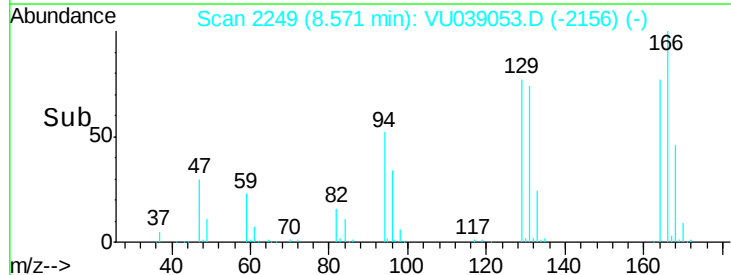
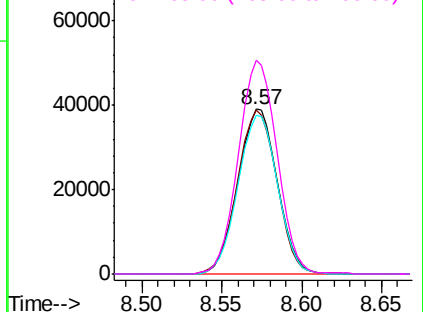


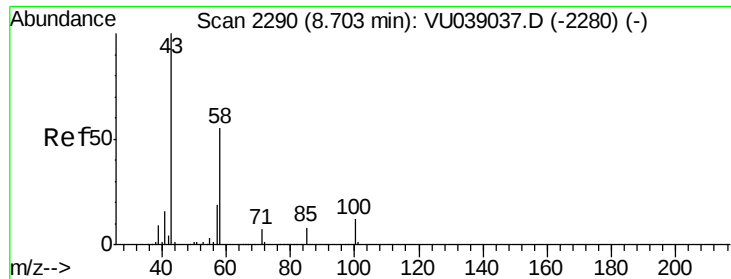
#47
 Tetrachloroethene
 Concen: 4.617 ug/L
 RT: 8.57 min Scan# 2249
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Tgt Ion:	164	Resp:	65659
Ion	Ratio	Lower	Upper
164	100		
129	99.3	71.3	132.5
131	96.3	68.3	126.8
166	129.7	90.8	168.6



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

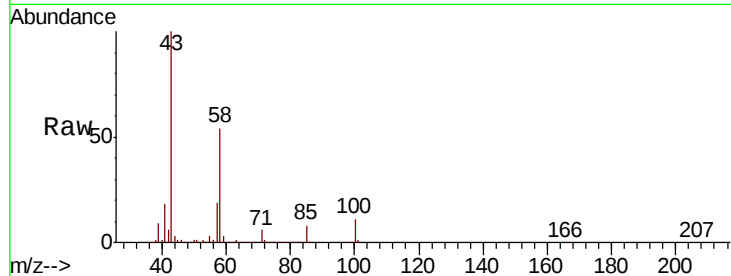




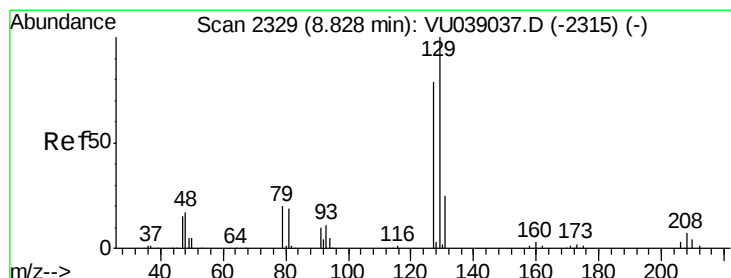
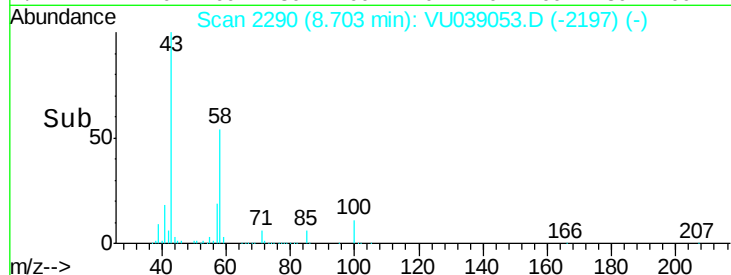
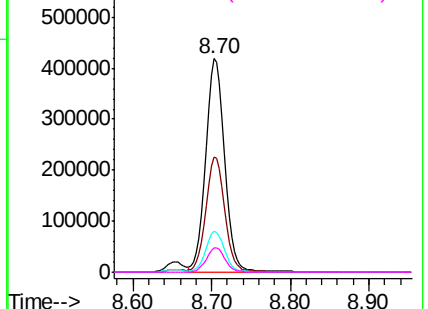
#48
2-Hexanone
Concen: 57.604 ug/L
RT: 8.70 min Scan# 2290
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion: 43 Resp: 696540
Ion Ratio Lower Upper
43 100
58 54.2 44.0 66.0
57 18.8 15.0 22.6
100 11.2 9.4 14.2

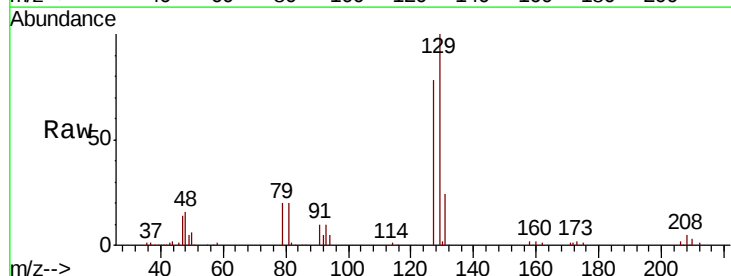


Abundance Ion 43.05 (42.75 to 43.75): VU039053.D (-2197) (-)
Ion 58.05 (57.75 to 58.75): VU039053.D (-2197) (-)
Ion 57.20 (56.90 to 57.90): VU039053.D (-2197) (-)
Ion 100.15 (99.85 to 100.85): VU039053.D (-2197) (-)

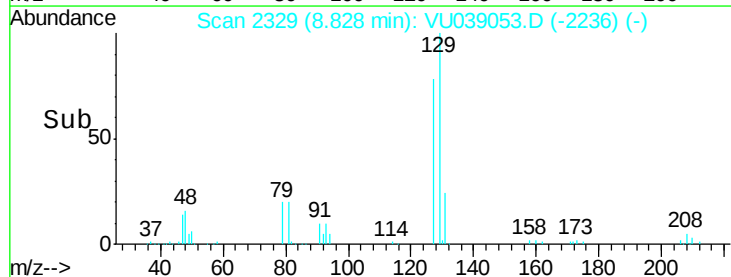
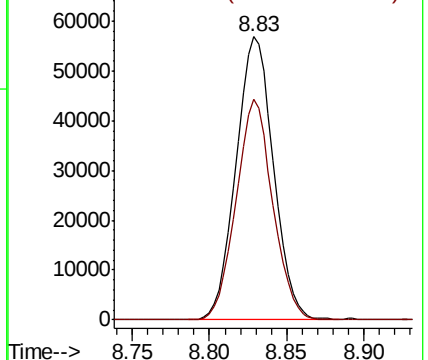


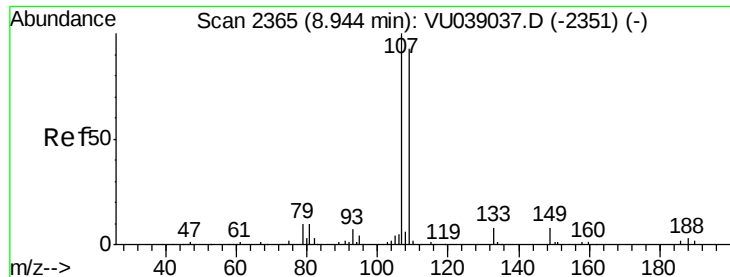
#49
Dibromochloromethane
Concen: 5.346 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion: 129 Resp: 95475
Ion Ratio Lower Upper
129 100
127 78.1 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): VU039053.D (-2236) (-)
Ion 126.90 (126.60 to 127.60): VU039053.D (-2236) (-)

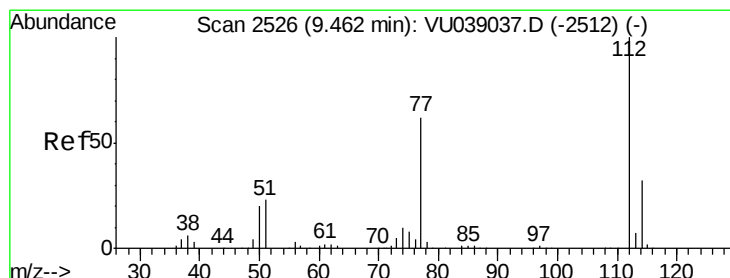
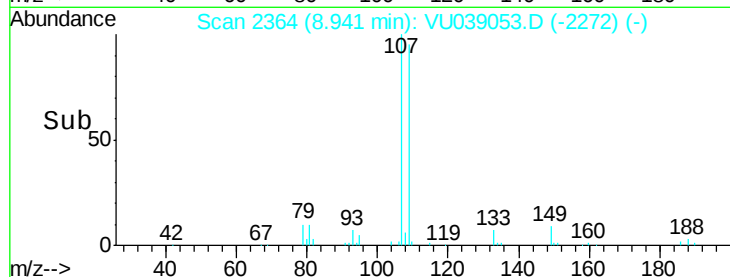
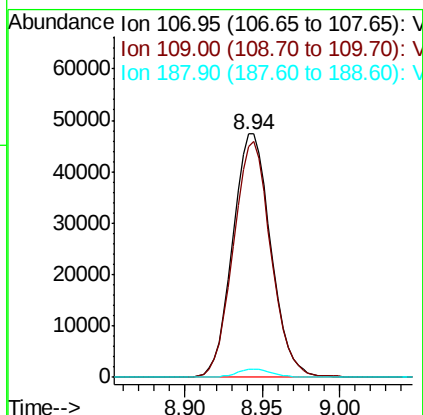
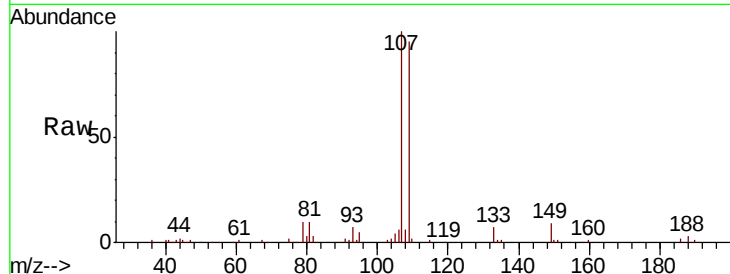




#50
1,2-Dibromoethane
Concen: 5.221 ug/L
RT: 8.94 min Scan# 2364
Delta R.T. -0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

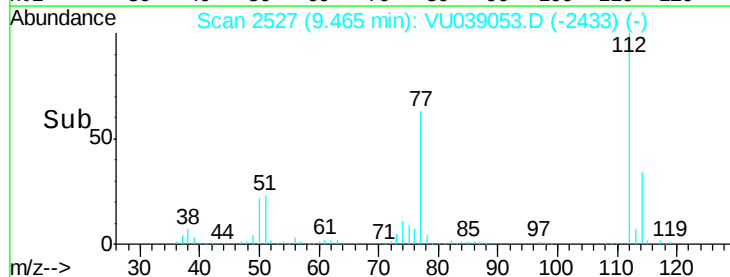
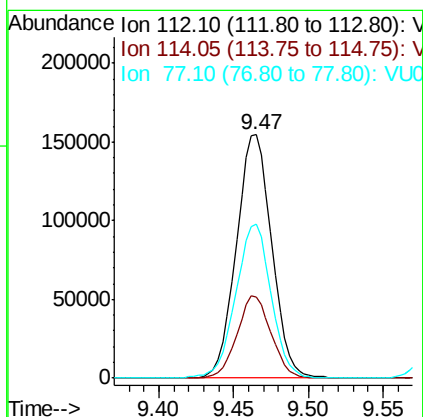
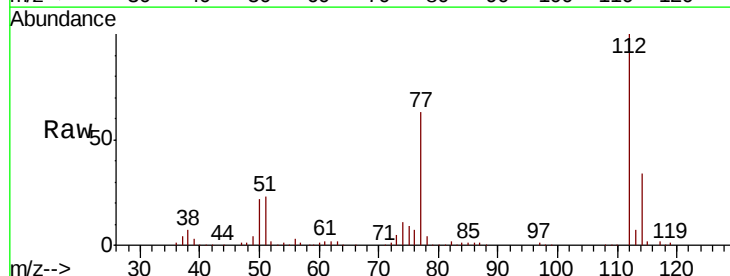
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

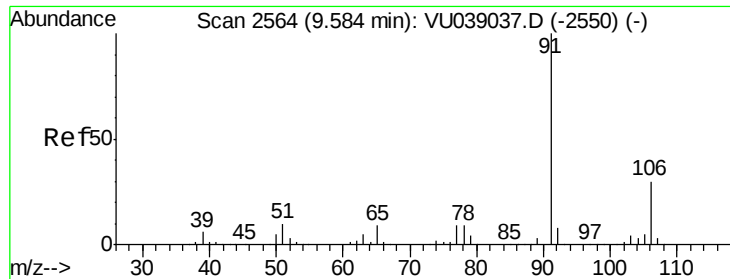
Tot Ion:107 Resp: 81070
Ion Ratio Lower Upper
107 100
109 94.9 64.8 120.4
188 3.3 2.4 3.6



#51
Chlorobenzene
Concen: 5.002 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion:112 Resp: 254950
Ion Ratio Lower Upper
112 100
114 33.5 22.0 41.0
77 63.3 50.2 75.4





#52

Ethylbenzene

Concen: 4.838 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

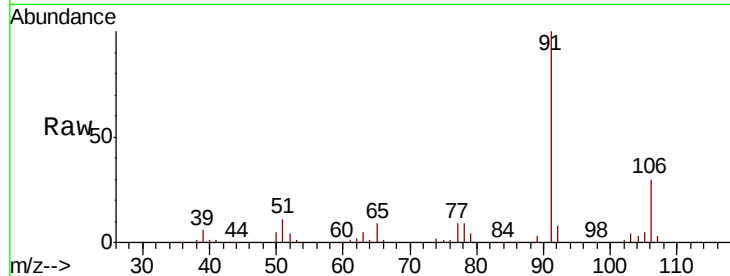
VSTD00512

Tot Ion: 91 Resp: 411751

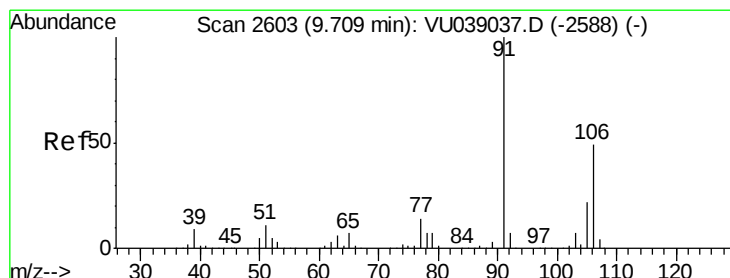
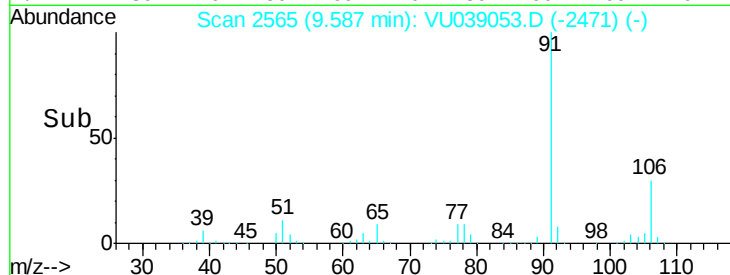
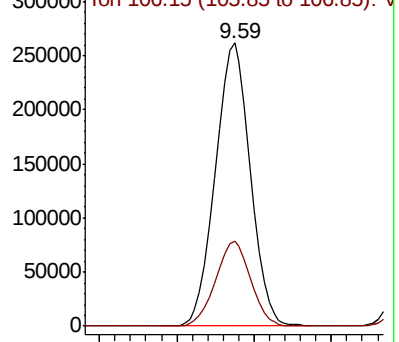
Ion Ratio Lower Upper

91 100

106 30.1 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039037.D (-2550) (-)



#53

m,p-Xylene

Concen: 5.054 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU039053.D

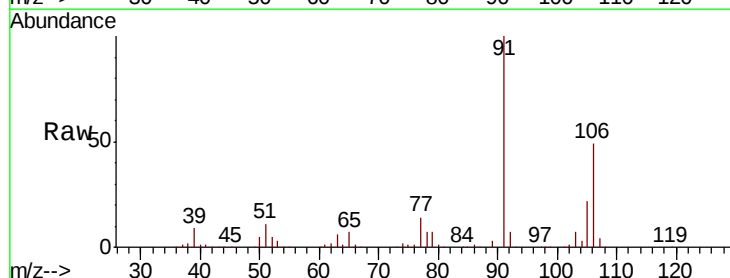
Acq: 23 Jun 2020 20:48

Tgt Ion: 106 Resp: 158172

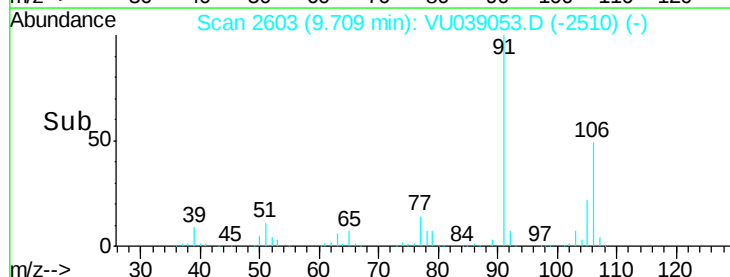
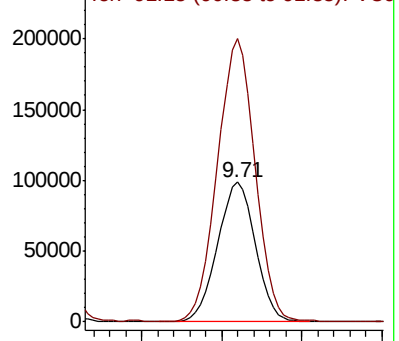
Ion Ratio Lower Upper

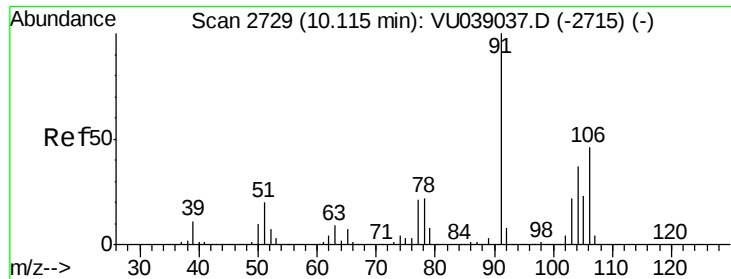
106 100

91 202.8 143.6 266.8



Abundance Ion 106.15 (105.85 to 106.85): VU039037.D (-2588) (-)

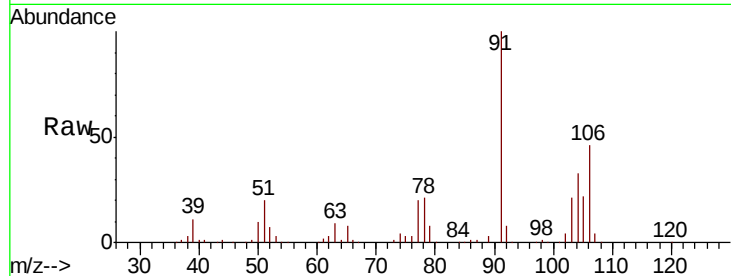




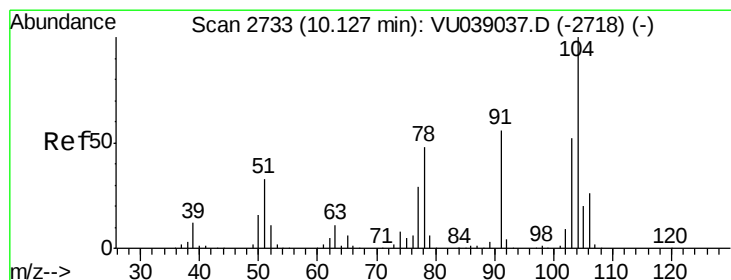
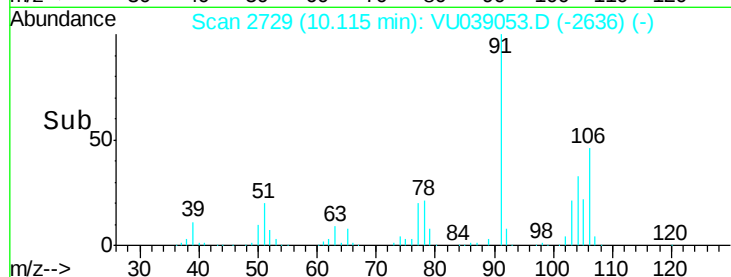
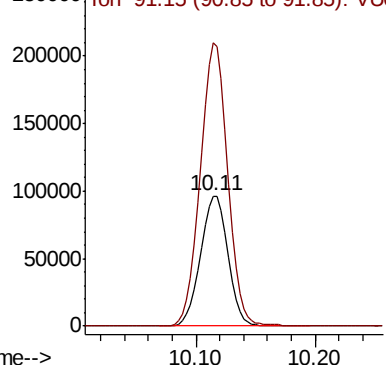
#54
o-Xylene
Concen: 5.123 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:106 Resp: 154001
Ion Ratio Lower Upper
106 100
91 217.1 153.5 285.1

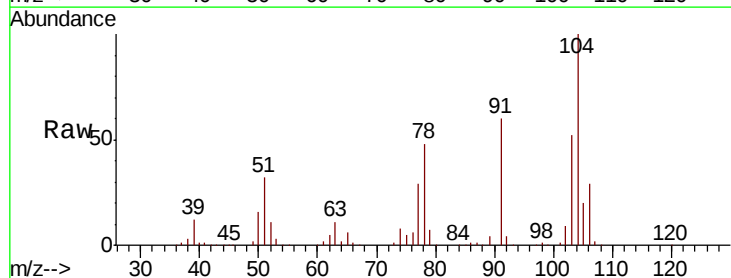


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

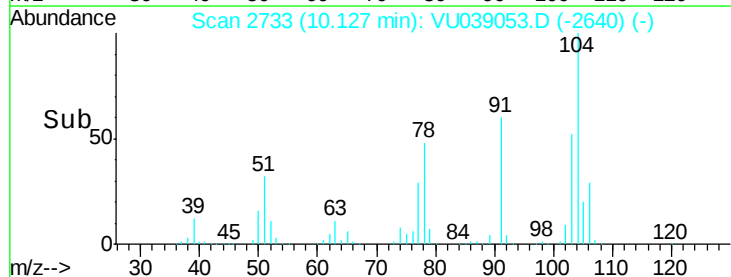
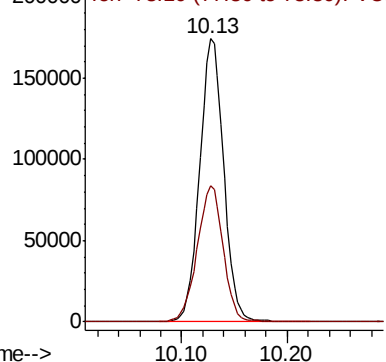


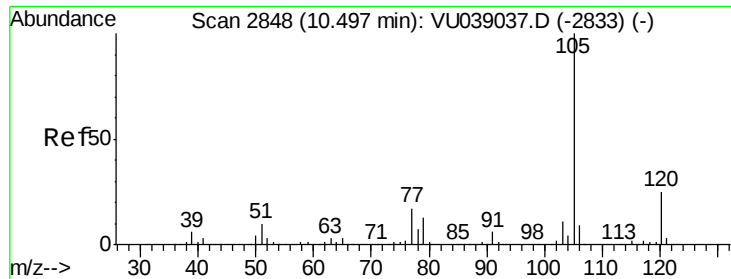
#55
Styrene
Concen: 5.197 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU039053.D
Acq: 23 Jun 2020 20:48

Tgt Ion:104 Resp: 274364
Ion Ratio Lower Upper
104 100
78 47.9 33.5 62.1



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





#56

Isopropylbenzene

Concen: 4.822 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

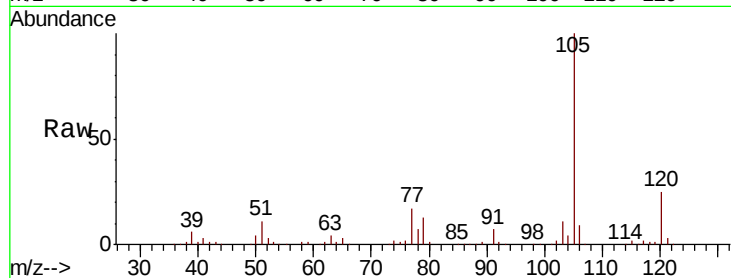
Tot Ion: 105 Resp: 379857

Ion Ratio Lower Upper

105 100

120 25.6 19.9 29.9

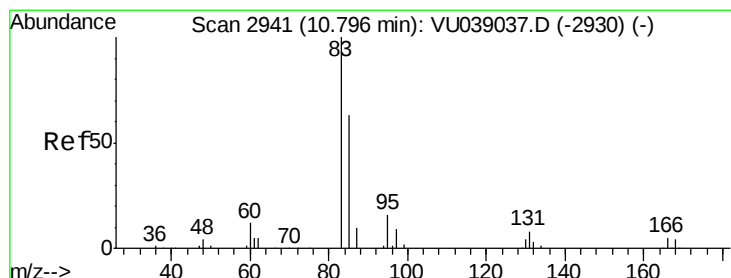
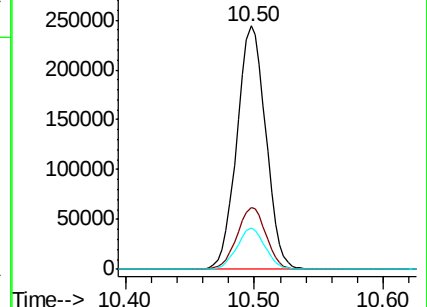
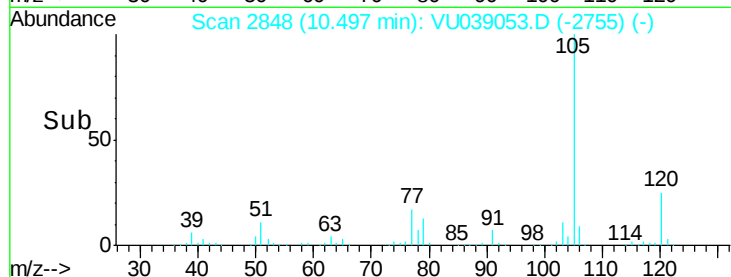
77 16.5 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.271 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

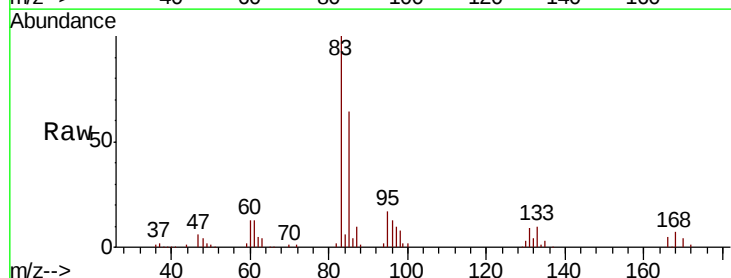
Tgt Ion: 83 Resp: 115769

Ion Ratio Lower Upper

83 100

85 63.9 45.3 84.1

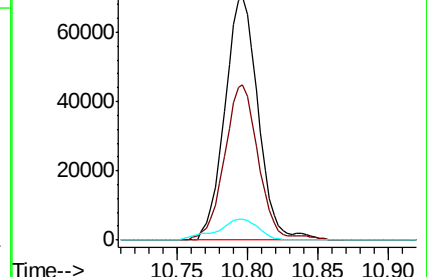
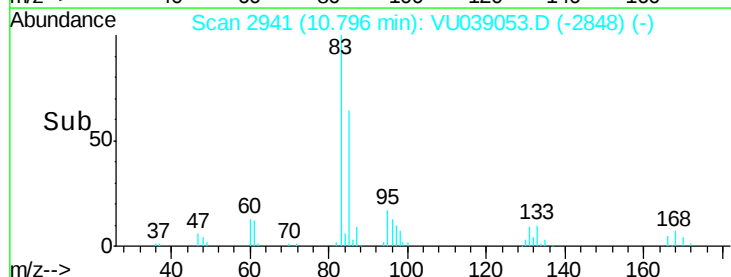
131 8.8 6.9 10.3

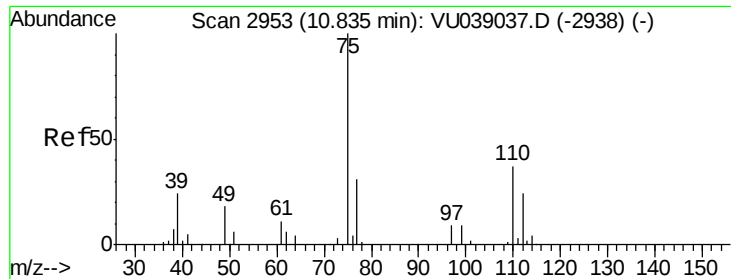


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

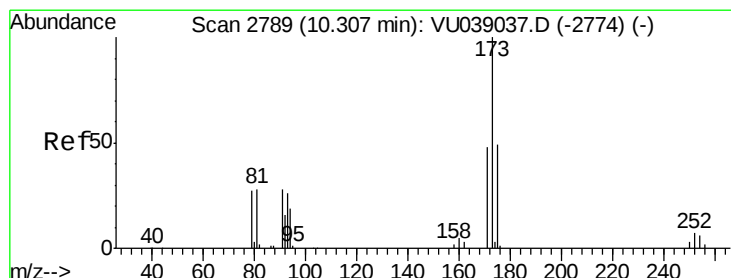
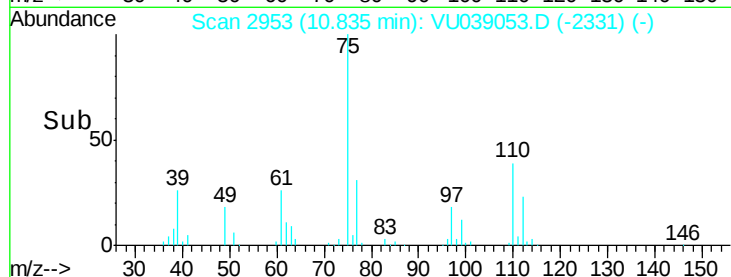
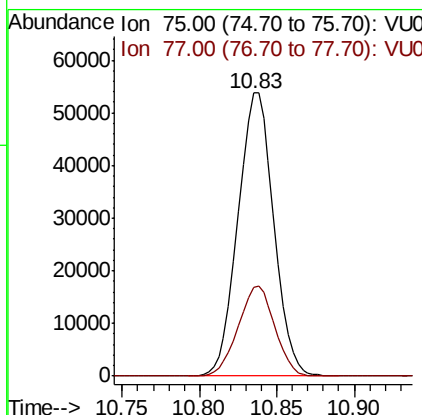
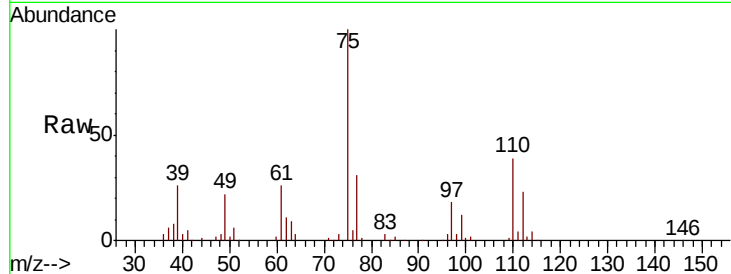




#59
 1,2,3-Trichloropropane
 Concen: 5.205 ug/L
 RT: 10.83 min Scan# 2953
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

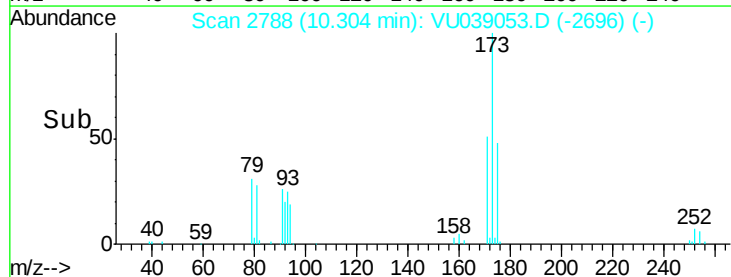
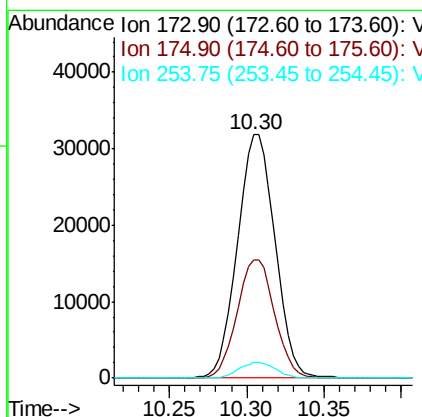
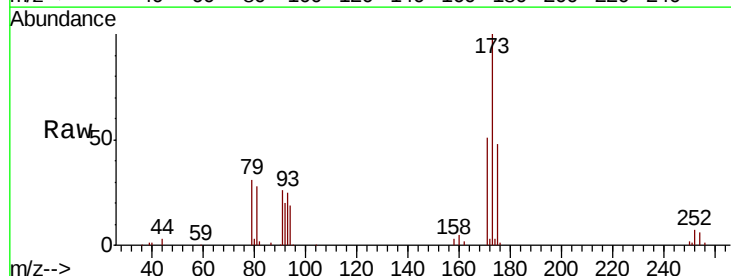
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

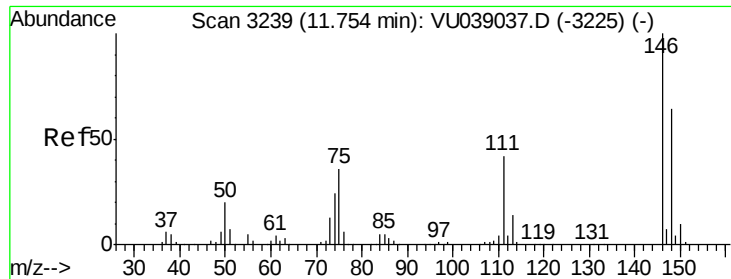
Tot Ion: 75 Resp: 86730
 Ion Ratio Lower Upper
 75 100
 77 32.4 26.2 39.2



#61
 Bromoform
 Concen: 5.407 ug/L
 RT: 10.30 min Scan# 2788
 Delta R.T. -0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Tgt Ion: 173 Resp: 53901
 Ion Ratio Lower Upper
 173 100
 175 48.3 39.3 58.9
 254 6.1 4.4 6.6





#62

1,3-Dichlorobenzene

Concen: 5.084 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

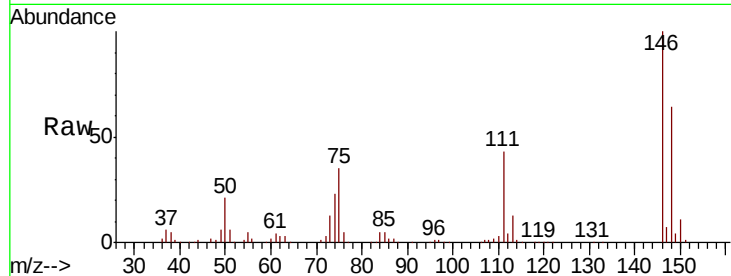
Tot Ion:146 Resp: 184497

Ion Ratio Lower Upper

146 100

111 42.8 29.5 54.9

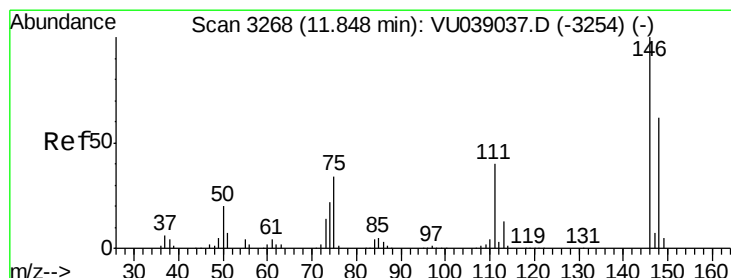
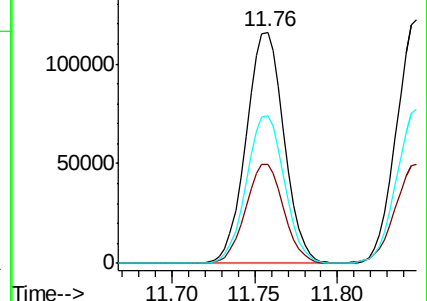
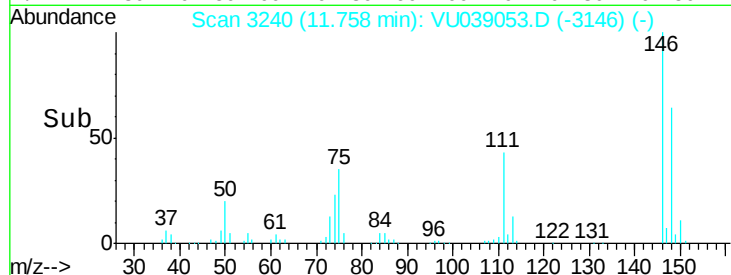
148 64.0 44.5 82.7



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: 4.993 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

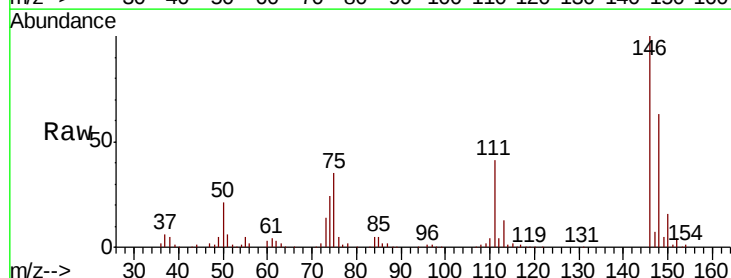
Tgt Ion:146 Resp: 186611

Ion Ratio Lower Upper

146 100

111 40.7 28.4 52.8

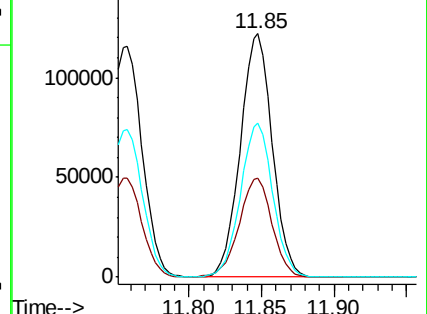
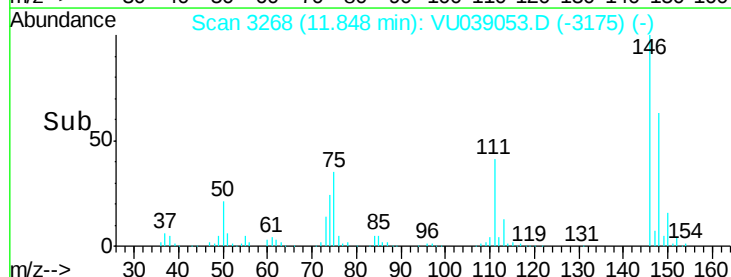
148 63.5 43.4 80.6

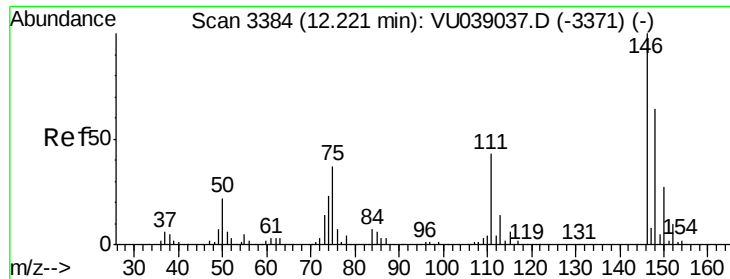


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.108 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

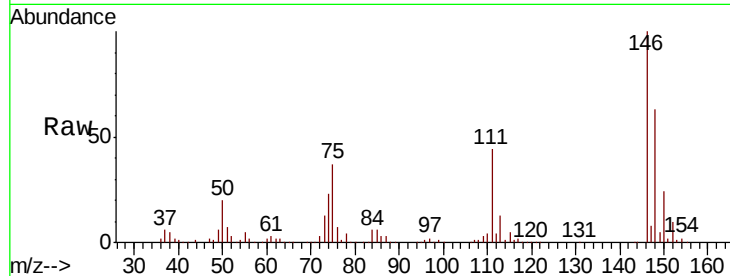
Tot Ion:146 Resp: 185858

Ion Ratio Lower Upper

146 100

111 43.9 34.7 52.1

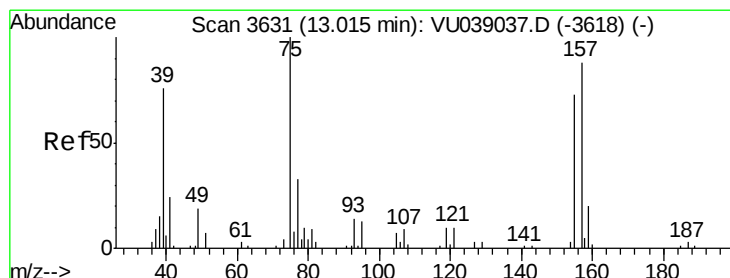
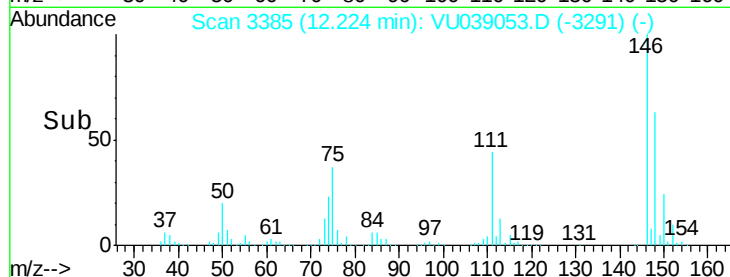
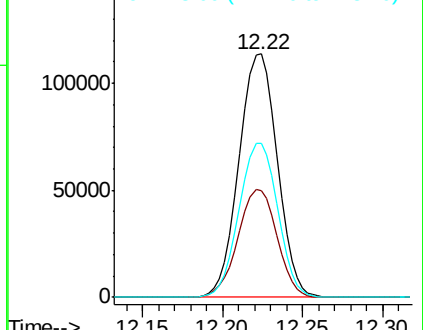
148 63.3 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.213 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

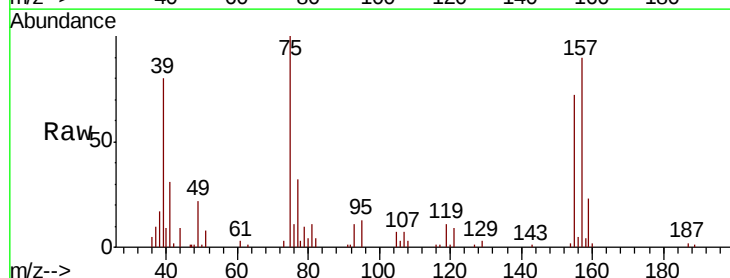
Tgt Ion: 75 Resp: 20922

Ion Ratio Lower Upper

75 100

155 71.9 58.6 88.0

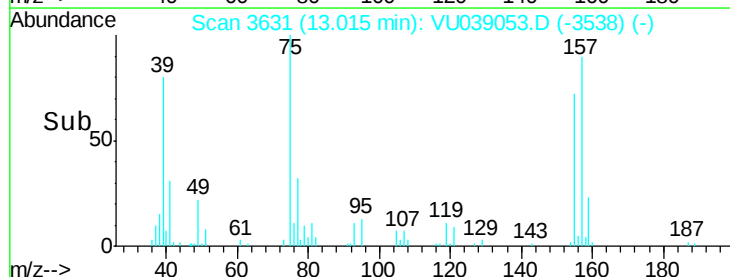
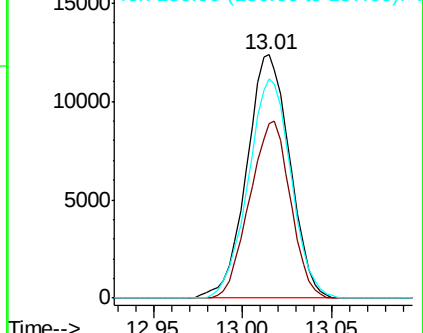
157 89.8 70.3 105.5

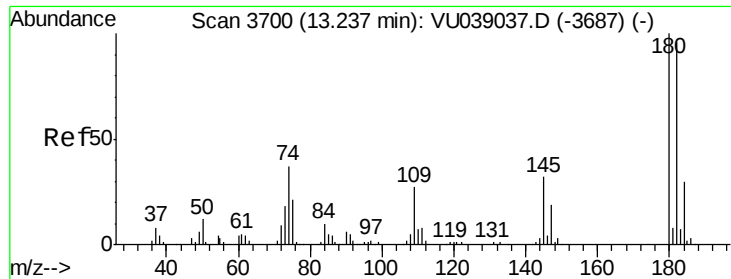


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

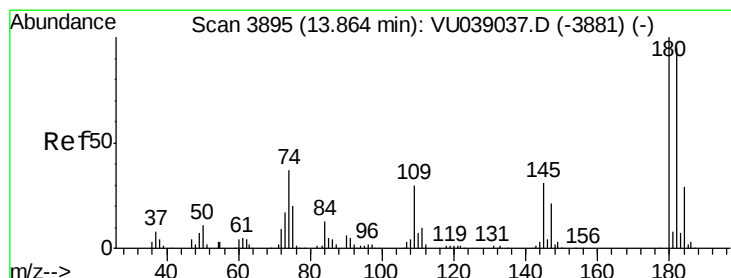
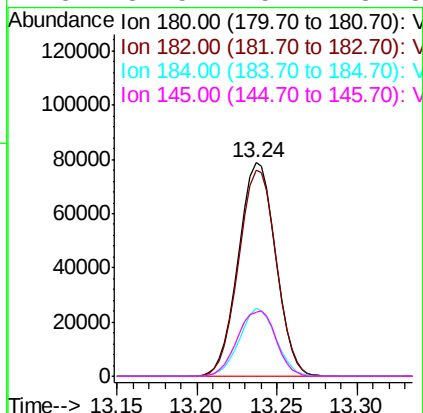
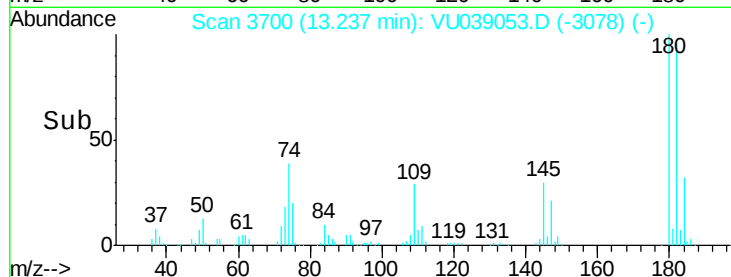
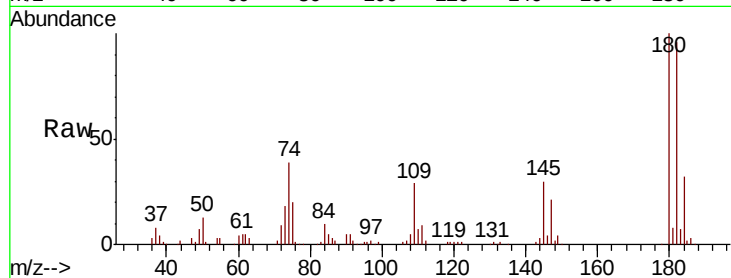




#67
 1,3,5-Trichlorobenzene
 Concen: 4.658 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

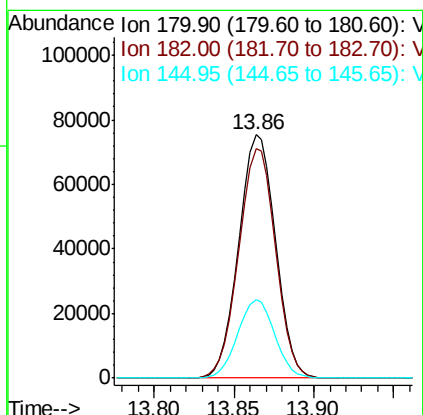
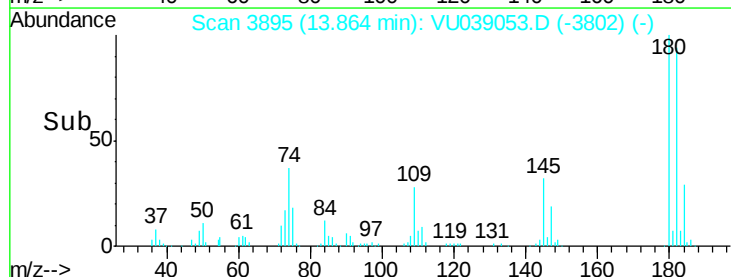
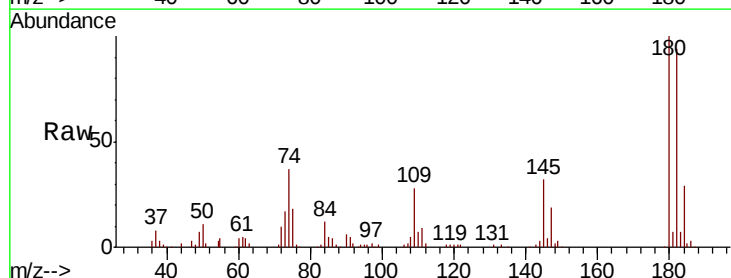
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

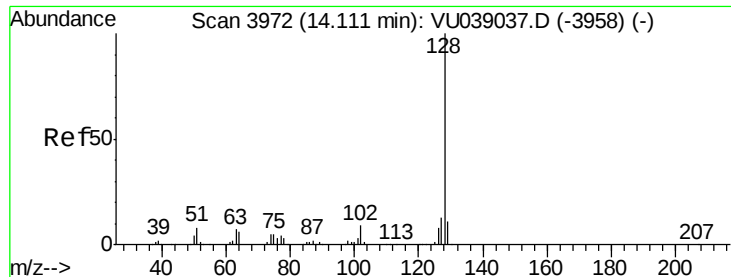
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	76.3	114.5
184	30.7	24.2	36.4
145	31.5	25.2	37.8



#68
 1,2,4-trichlorobenzene
 Concen: 4.804 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU039053.D
 Acq: 23 Jun 2020 20:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.0	115.6
145	32.6	25.4	38.2





#69

Naphthalene

Concen: 4.758 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

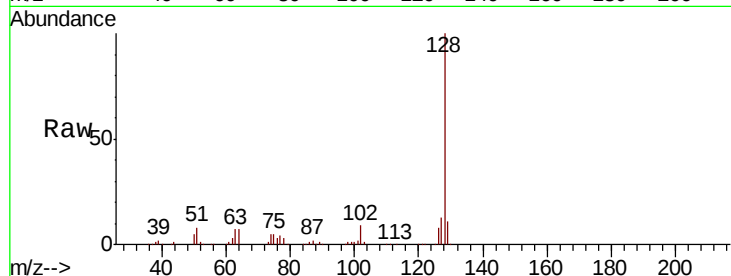
Tot Ion:128 Resp: 248326

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

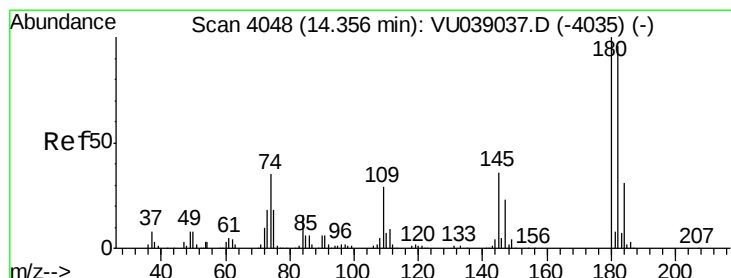
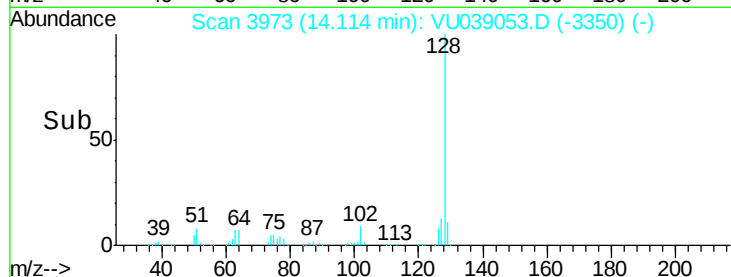
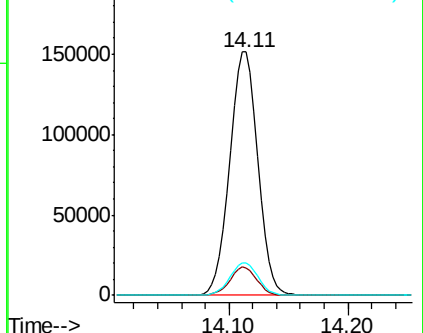
127 13.3 10.8 16.2



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: 4.858 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU039053.D

Acq: 23 Jun 2020 20:48

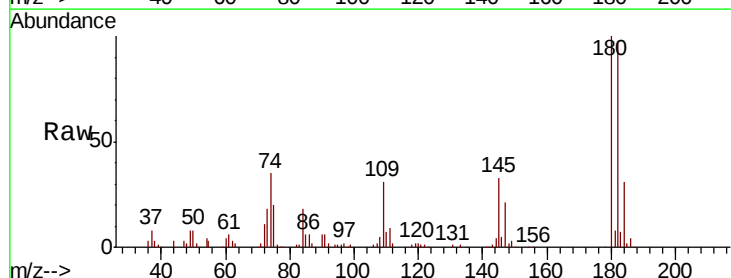
Tgt Ion:180 Resp: 114710

Ion Ratio Lower Upper

180 100

182 96.9 75.8 113.6

145 34.2 27.6 41.4



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

