

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030520\
 Data File : VU037072.D
 Acq On : 05 Mar 2020 10:09
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Mar 05 22:32:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 05 14:57:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	255251	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	248825	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	106394	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	93691	43.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.42%
7) Chloroethane-d5	1.91	69	88936	50.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.28%
11) 1,1-Dichloroethene-d2	2.59	63	169554	47.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.48%
21) 2-Butanone-d5	4.67	46	148914	103.57	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.57%
24) Chloroform-d	5.10	84	174540	53.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.64%
26) 1,2-Dichloroethane-d4	5.74	65	114766	51.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.62%
32) Benzene-d6	5.76	84	360493	50.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.20%
36) 1,2-Dichloropropane-d6	6.72	67	117660	50.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.94%
41) Toluene-d8	7.92	98	331353	49.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.28%
43) trans-1,3-Dichloropropene-	8.20	79	52049	48.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.08%
47) 2-Hexanone-d5	8.66	63	107211	94.06	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.06%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	179166	54.51	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.02%
64) 1,2-Dichlorobenzene-d4	12.21	152	107116	51.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	112876	52.135	ug/L	100
3) Chloromethane	1.53	50	127910	51.352	ug/L	100
5) Vinyl chloride	1.62	62	130470	50.782	ug/L	97
6) Bromomethane	1.85	94	59088	44.825	ug/L	100
8) Chloroethane	1.93	64	79218	51.437	ug/L	99
9) Trichlorofluoromethane	2.15	101	143364	52.613	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	88844	54.505	ug/L	100
12) 1,1-Dichloroethene	2.60	96	82892	50.278	ug/L	86
13) Acetone	2.65	43	179689	121.497	ug/L	99
14) Carbon disulfide	2.82	76	243691	46.717	ug/L	99
15) Methyl Acetate	2.98	43	118163	52.418	ug/L	99
16) Methylene chloride	3.07	84	105674	52.551	ug/L	99
17) trans-1,2-Dichloroethene	3.38	96	89383	50.468	ug/L	98
18) Methyl tert-butyl Ether	3.40	73	301207	52.320	ug/L	100
19) 1,1-Dichloroethane	3.91	63	184198	53.525	ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	103915	52.473	ug/L	99
22) 2-Butanone	4.75	43	204344	114.579	ug/L	100

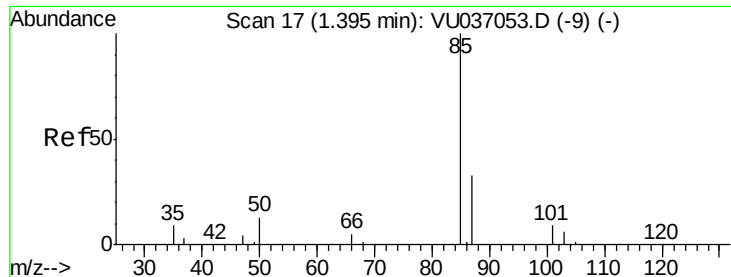
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 QLast Update : Thu Mar 05 14:57:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	48859	54.480	ug/L	97
25) Chloroform	5.13	83	179404	54.030	ug/L	98
27) 1,2-Dichloroethane	5.83	62	149590	55.337	ug/L	99
29) Cyclohexane	5.42	56	157624	47.737	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	140192	52.550	ug/L	98
31) Carbon tetrachloride	5.56	117	110509	52.849	ug/L	98
33) Benzene	5.81	78	415691	52.882	ug/L	100
34) Trichloroethene	6.57	95	98477	50.970	ug/L	99
35) Methylcyclohexane	6.79	83	166843	49.807	ug/L	100
37) 1,2-Dichloropropane	6.82	63	110821	52.359	ug/L	100
38) Bromodichloromethane	7.14	83	130756	52.337	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	166854	51.177	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	331235	106.207	ug/L	100
42) Toluene	8.00	91	439369	52.464	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	146013	51.626	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	101918	54.150	ug/L	99
46) Tetrachloroethene	8.58	164	66720	52.421	ug/L	98
48) 2-Hexanone	8.71	43	276724	111.189	ug/L	99
49) Dibromochloromethane	8.83	129	95120	53.244	ug/L	98
50) 1,2-Dibromoethane	8.95	107	104216	52.950	ug/L	99
51) Chlorobenzene	9.47	112	267132	53.833	ug/L	99
52) Ethylbenzene	9.59	91	472813	52.079	ug/L	99
53) m,p-Xylene	9.72	106	175569	52.720	ug/L	99
54) o-xylene	10.12	106	173485	52.232	ug/L	98
55) Styrene	10.13	104	292602	53.890	ug/L	97
56) Isopropylbenzene	10.50	105	449764	52.721	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	187933	55.851	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	150525	55.283	ug/L	98
61) Bromoform	10.31	173	65008	54.044	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	186896	54.151	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	187358	54.945	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	192336	55.812	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	36001	52.658	ug/L	98
67) 1,3,5-Trichlorobenzene	13.25	180	119785	54.678	ug/L	99
68) 1,2,4-trichlorobenzene	13.88	180	83652	50.966	ug/L	99
69) Naphthalene	14.12	128	121743	42.018	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	82415	50.247	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 52.135 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

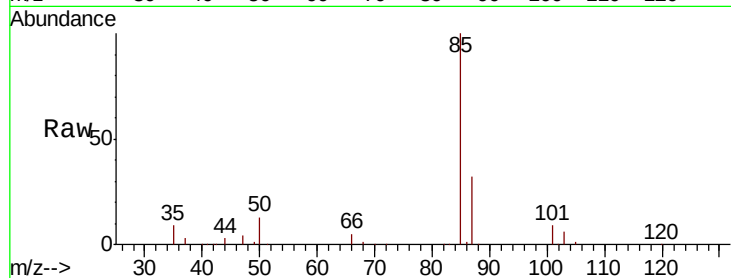
VSTD05048

Tot Ion: 85 Resp: 112876

Ion Ratio Lower Upper

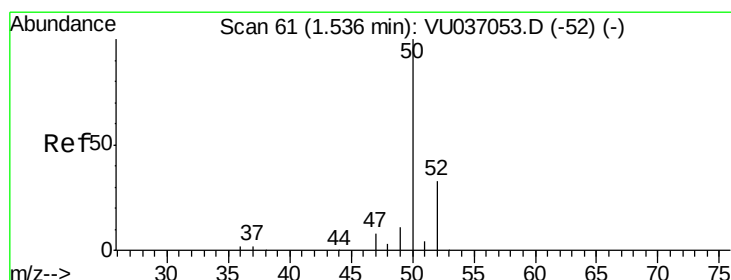
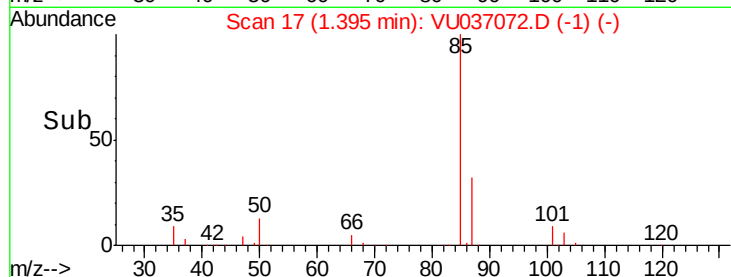
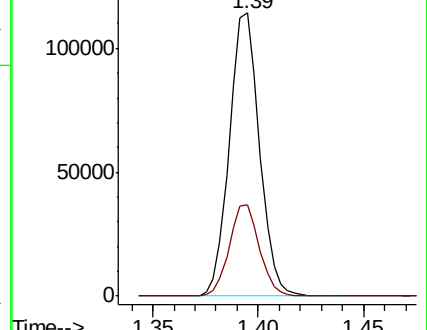
85 100

87 32.2 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU037072.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037072.D (-1) (-)



#3

Chloromethane

Concen: 51.352 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037072.D

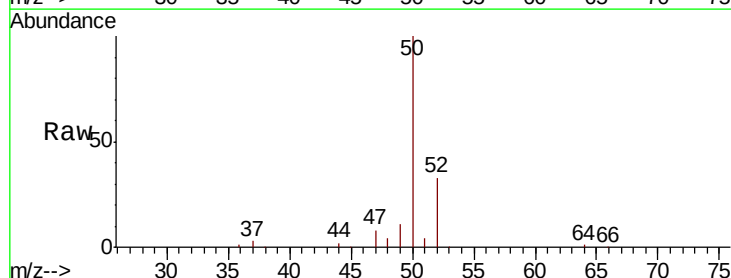
Acq: 05 Mar 2020 10:09

Tgt Ion: 50 Resp: 127910

Ion Ratio Lower Upper

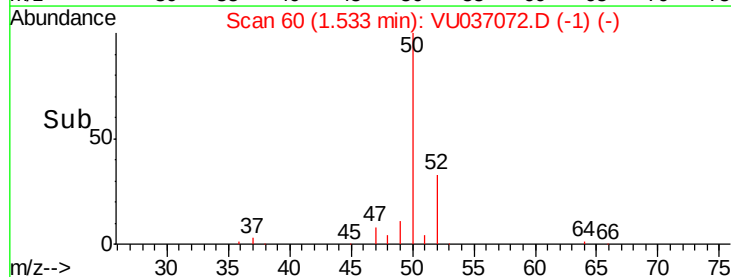
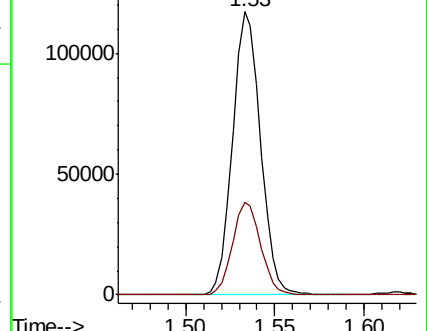
50 100

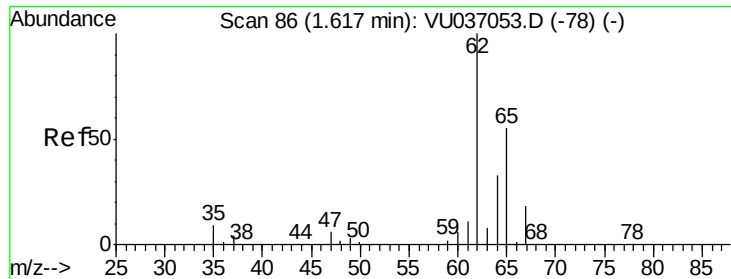
52 32.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU037072.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037072.D (-1) (-)





#5

Vinyl chloride

Concen: 50.782 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

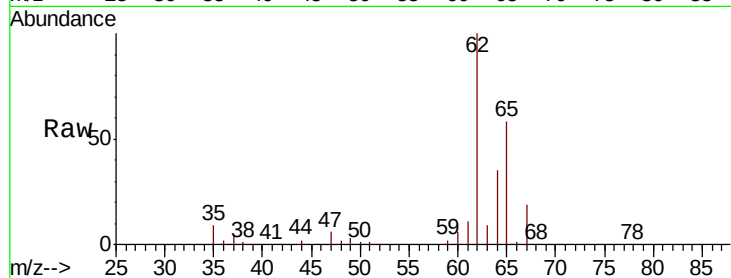
VSTD05048

Tot Ion: 62 Resp: 130470

Ion Ratio Lower Upper

62 100

64 34.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU037072.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU037072.D (-1) (-)

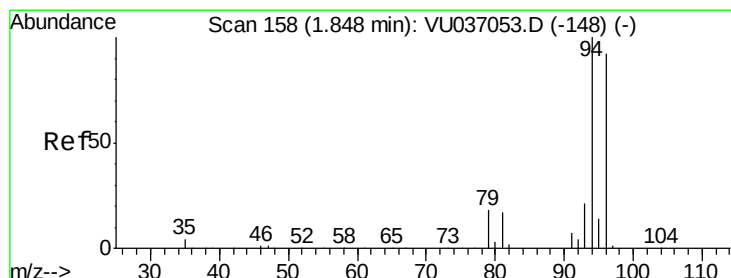
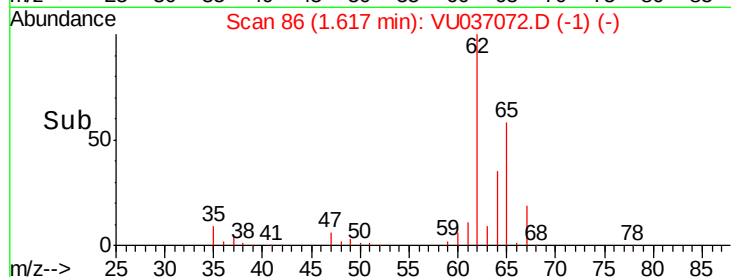
1.62

100000

50000

0

Time-->



#6

Bromomethane

Concen: 44.825 ug/L

RT: 1.85 min Scan# 158

Delta R.T. 0.00 min

Lab File: VU037072.D

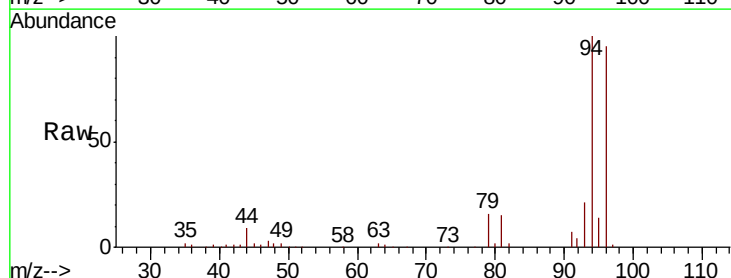
Acq: 05 Mar 2020 10:09

Tgt Ion: 94 Resp: 59088

Ion Ratio Lower Upper

94 100

96 94.9 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU037072.D (-65) (-)

Ion 96.00 (95.70 to 96.70): VU037072.D (-65) (-)

1.85

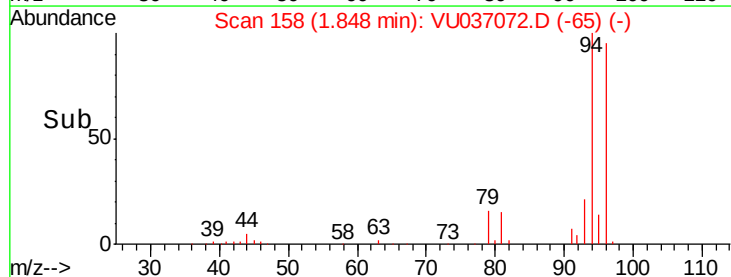
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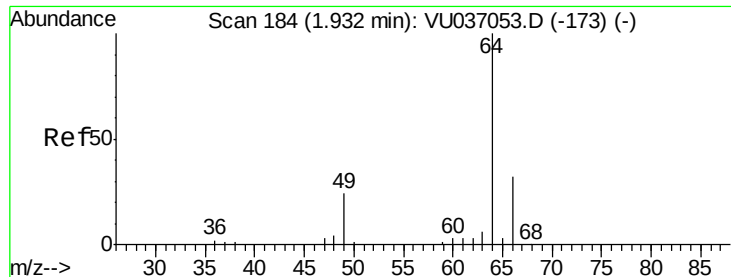
40000

20000

0

Time-->

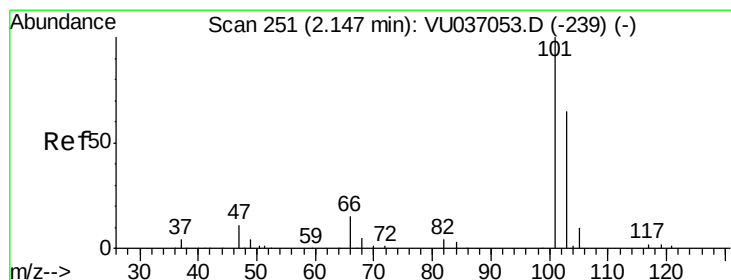
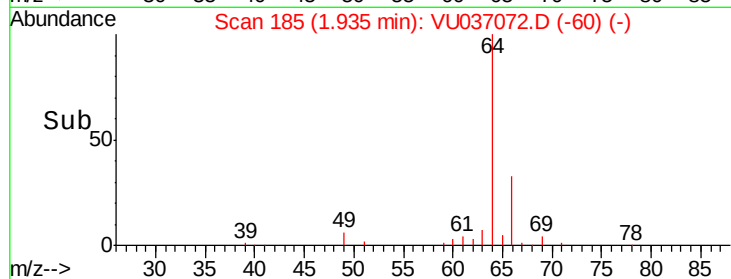
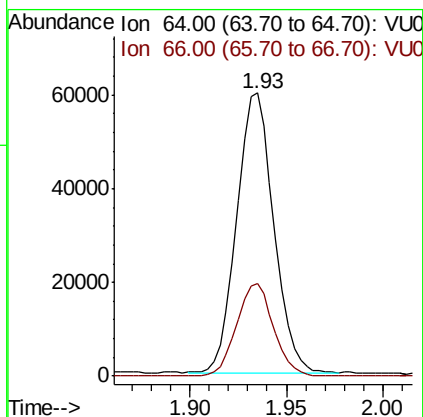
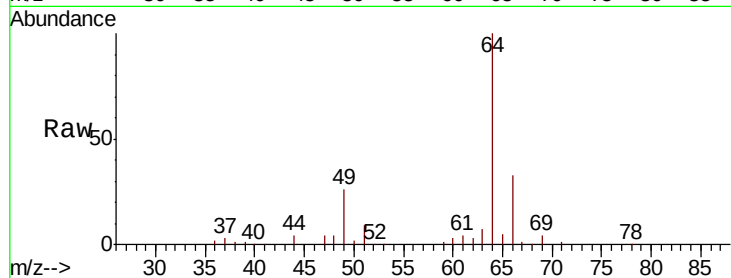




#8
Chloroethane
Concen: 51.437 ug/L
RT: 1.93 min Scan# 185
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

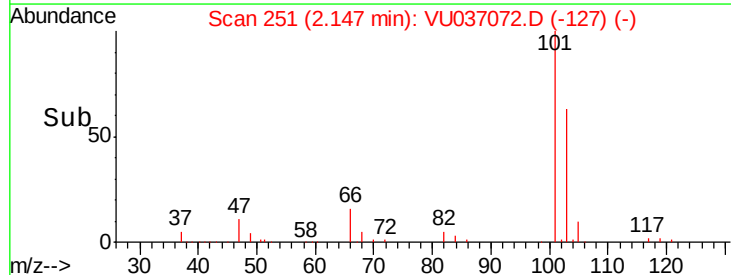
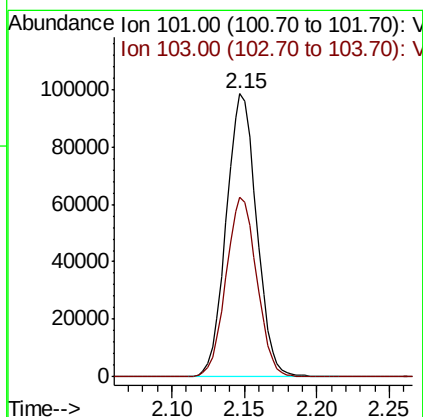
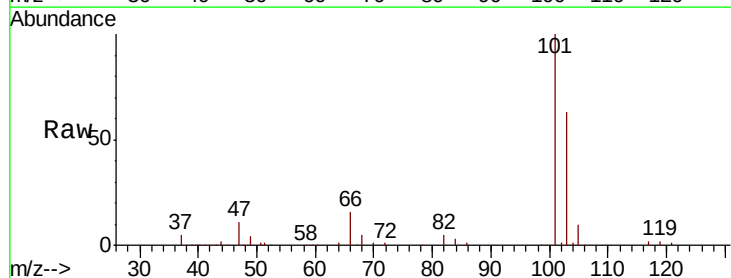
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

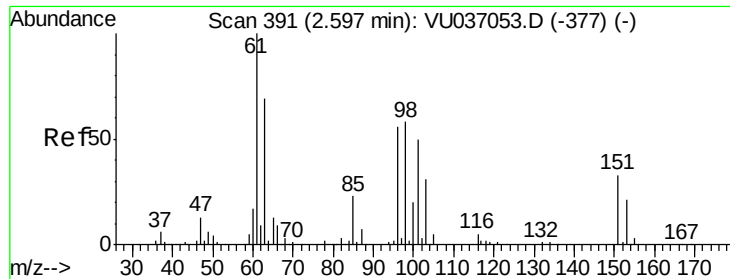
Tot Ion: 64 Resp: 79218
Ion Ratio Lower Upper
64 100
66 32.9 22.5 41.9



#9
Trichlorofluoromethane
Concen: 52.613 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

Tgt Ion: 101 Resp: 143364
Ion Ratio Lower Upper
101 100
103 64.1 50.9 76.3





#10

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

Concen: 54.505 ug/L

RT: 2.60 min Scan# 392

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

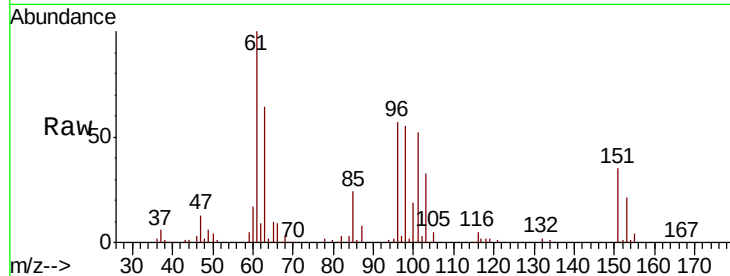
Tot Ion:101 Resp: 88844

Ion Ratio Lower Upper

101 100

85 45.5 36.4 54.6

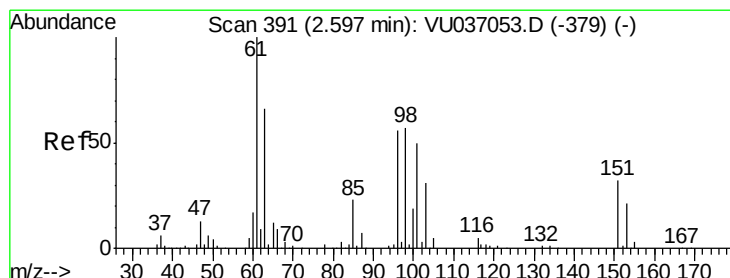
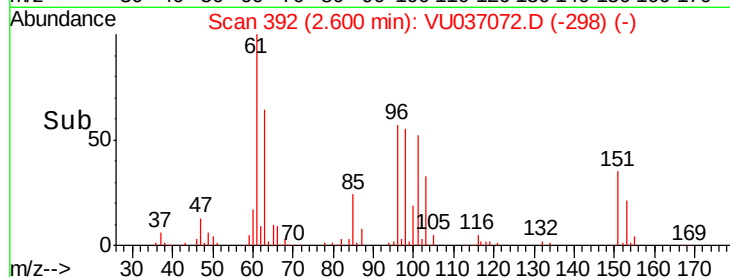
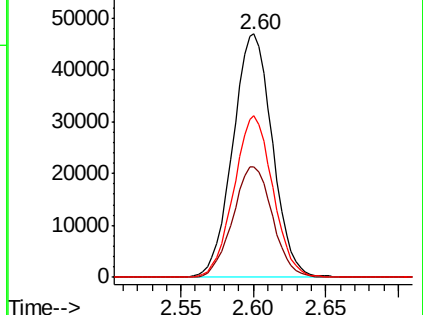
151 65.4 52.4 78.6



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: 50.278 ug/L

RT: 2.60 min Scan# 392

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

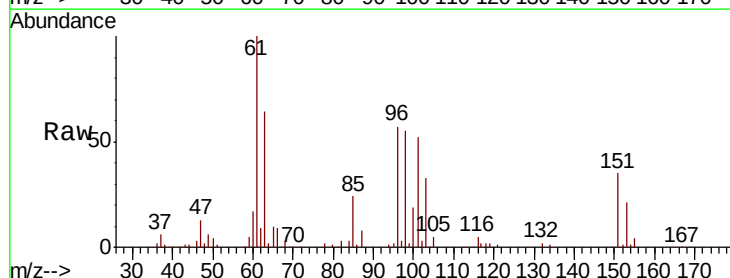
Tgt Ion: 96 Resp: 82892

Ion Ratio Lower Upper

96 100

61 176.0 127.5 236.7

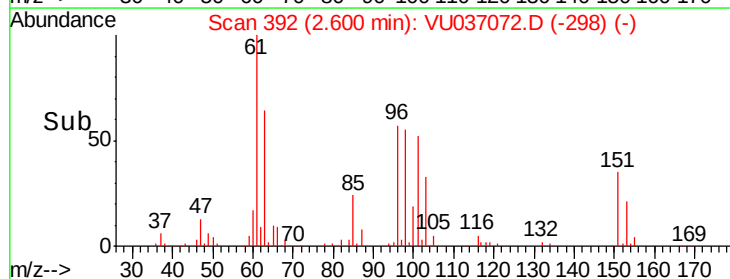
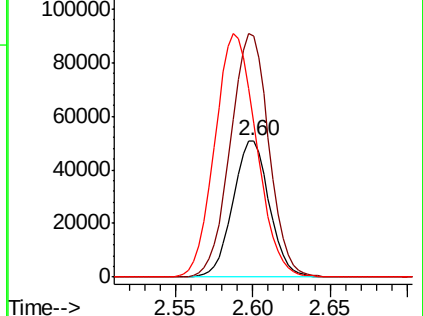
63 112.5 101.4 188.2

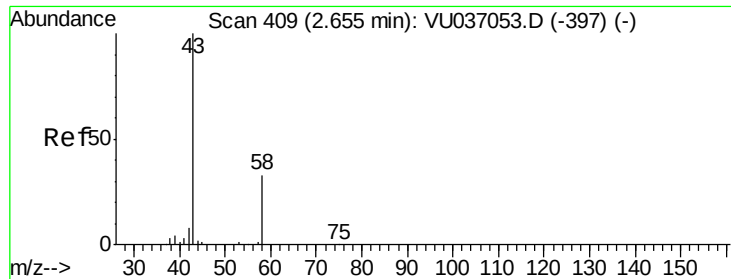


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 121.497 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

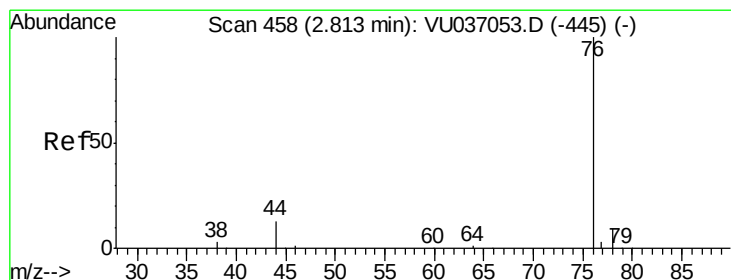
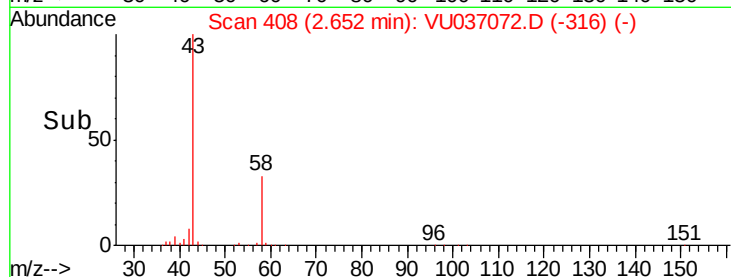
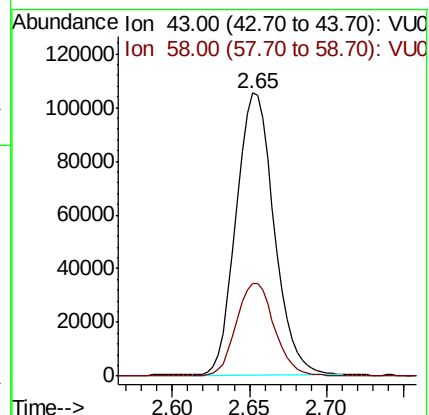
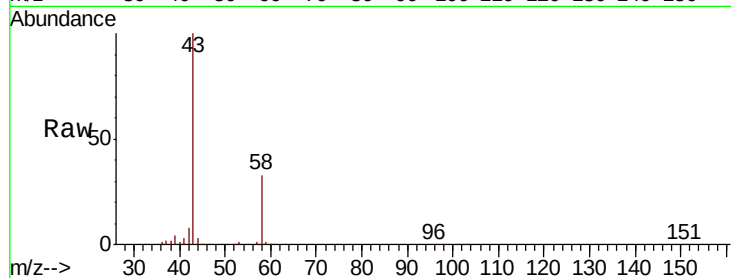
VSTD05048

Tot Ion: 43 Resp: 179689

Ion Ratio Lower Upper

43 100

58 32.9 0.0 64.6



#14

Carbon disulfide

Concen: 46.717 ug/L

RT: 2.82 min Scan# 459

Delta R.T. 0.00 min

Lab File: VU037072.D

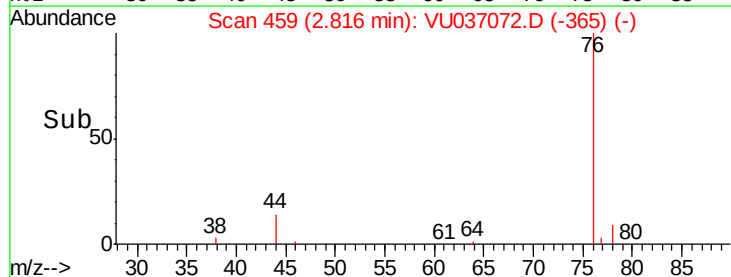
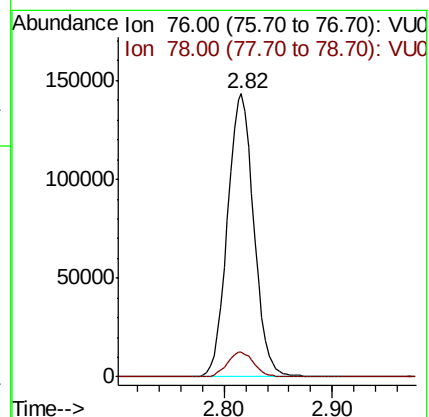
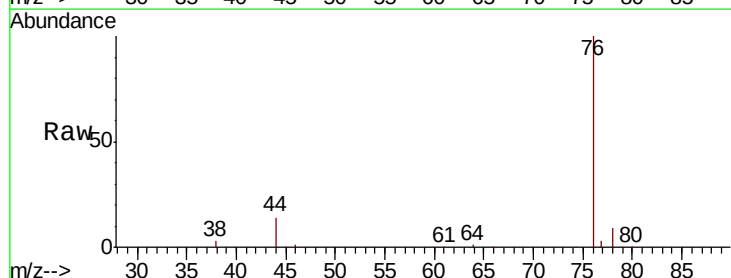
Acq: 05 Mar 2020 10:09

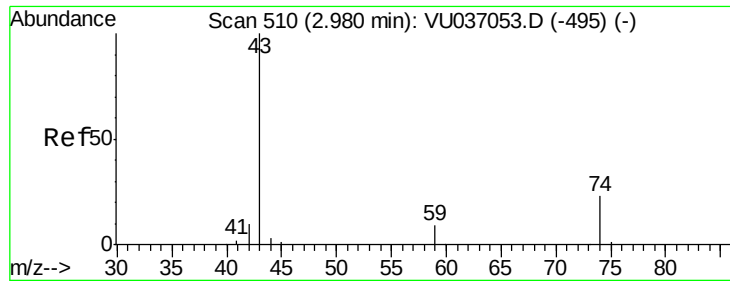
Tgt Ion: 76 Resp: 243691

Ion Ratio Lower Upper

76 100

78 8.6 7.1 10.7

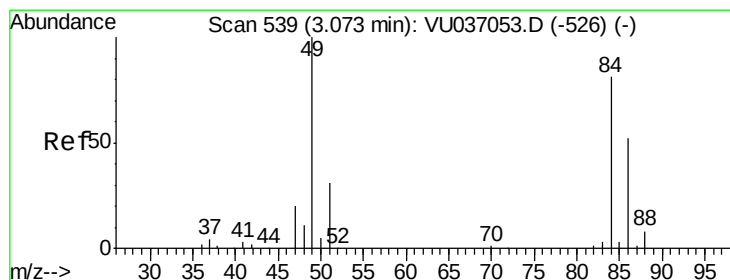
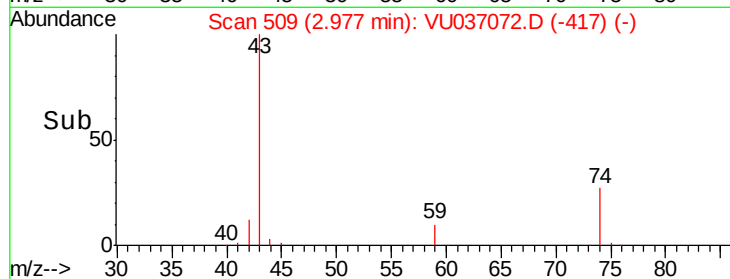
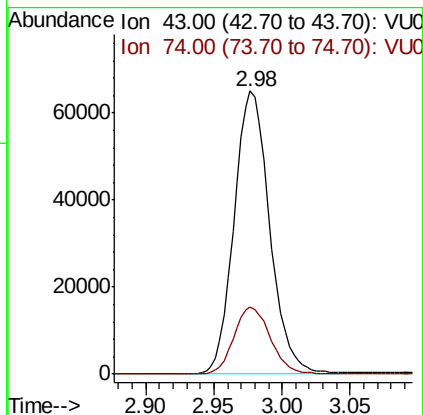
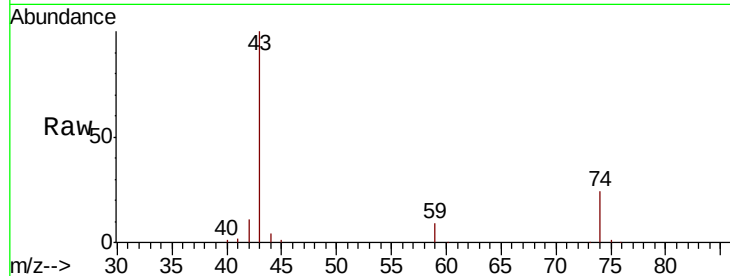




#15
Methvl Acetate
Concen: 52.418 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

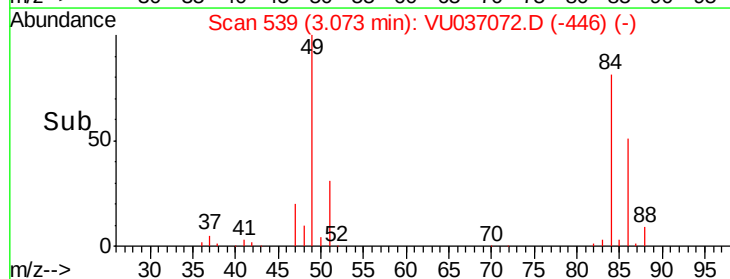
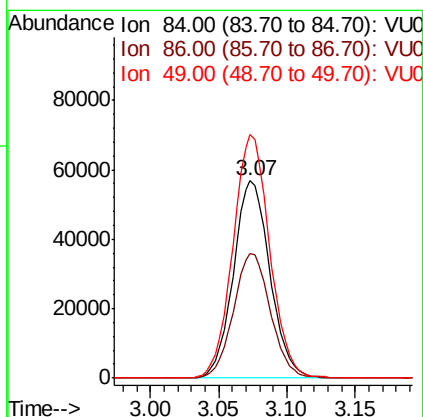
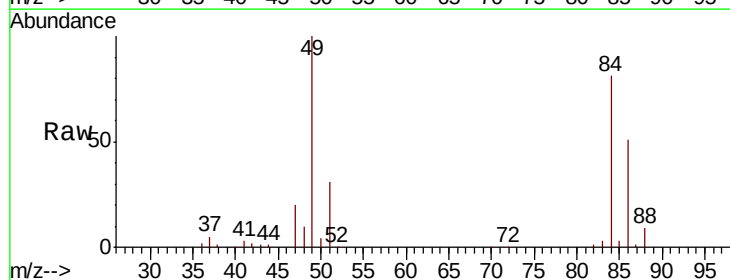
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

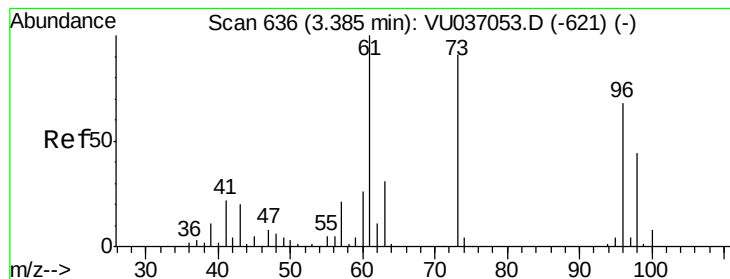
Tot Ion: 43 Resp: 118163
Ion Ratio Lower Upper
43 100
74 24.2 19.0 28.4



#16
Methylene chloride
Concen: 52.551 ug/L
RT: 3.07 min Scan# 539
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

Tgt Ion: 84 Resp: 105674
Ion Ratio Lower Upper
84 100
86 63.2 44.4 82.5
49 123.5 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 50.468 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

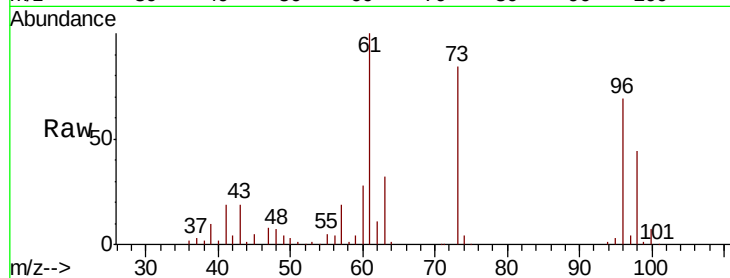
Tot Ion: 96 Resp: 89383

Ion Ratio Lower Upper

96 100

61 145.8 103.8 192.8

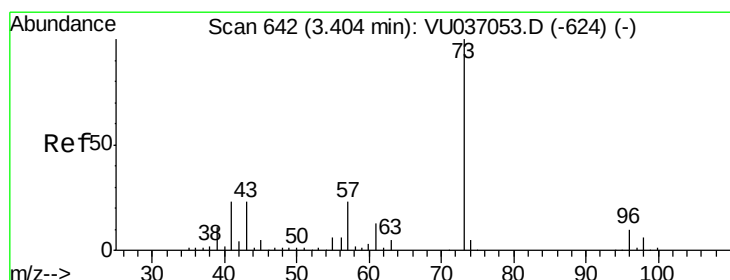
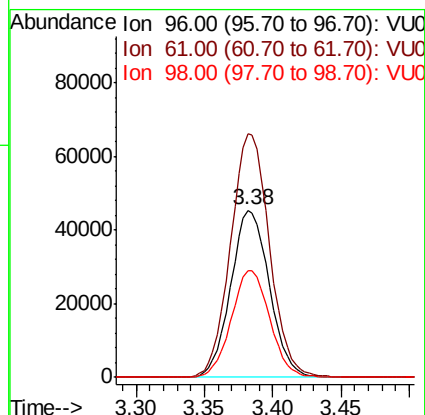
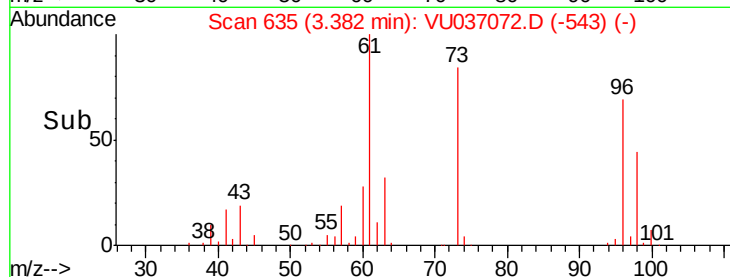
98 63.9 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU037072.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037072.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037072.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 52.320 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

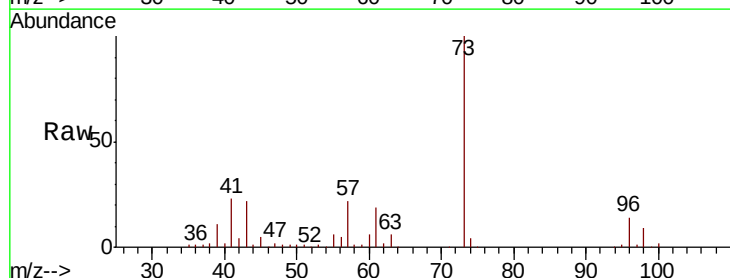
Tgt Ion: 73 Resp: 301207

Ion Ratio Lower Upper

73 100

43 22.3 18.1 27.1

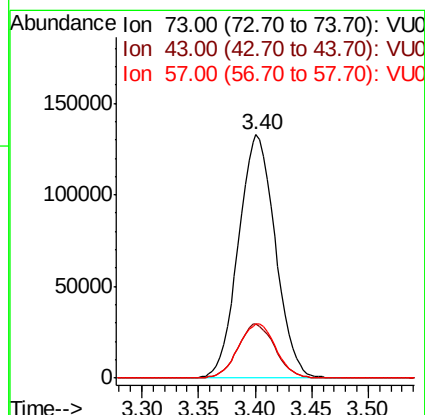
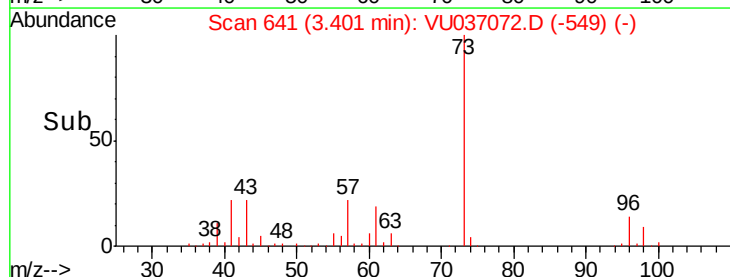
57 22.9 18.4 27.6

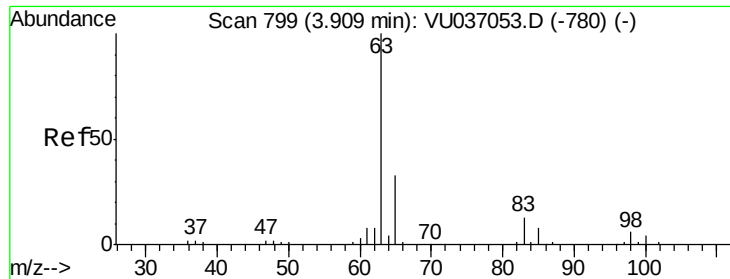


Abundance Ion 73.00 (72.70 to 73.70): VU037072.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037072.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037072.D (-549) (-)

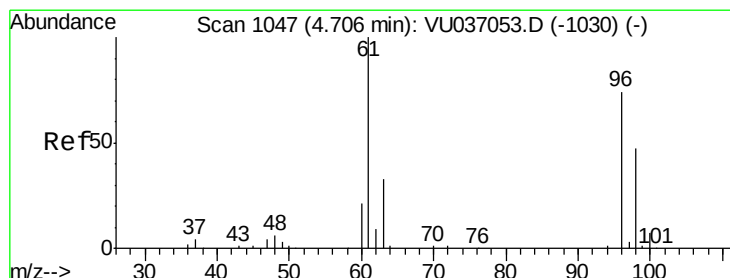
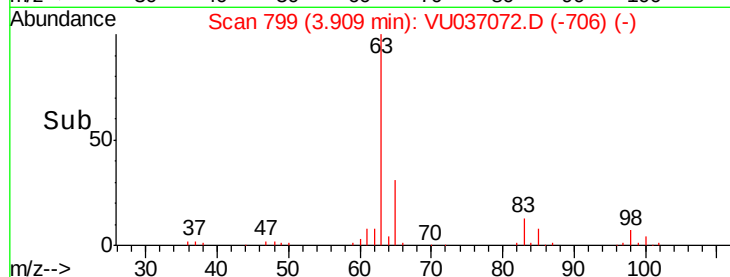
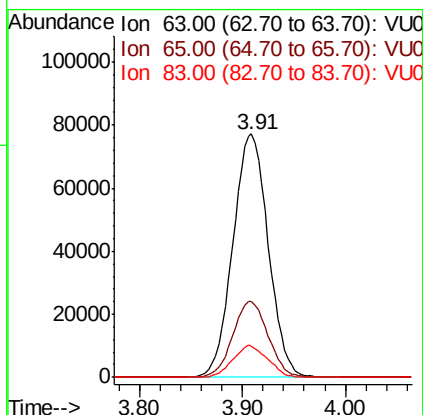
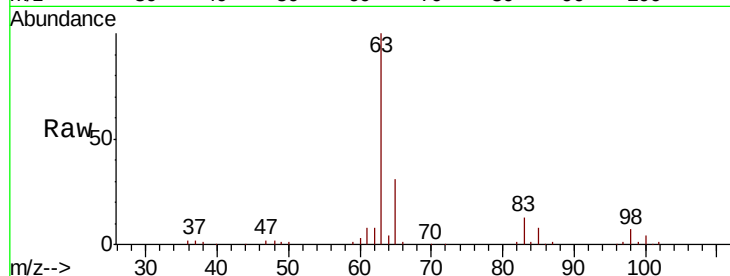




#19
 1,1-Dichloroethane
 Concen: 53.525 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

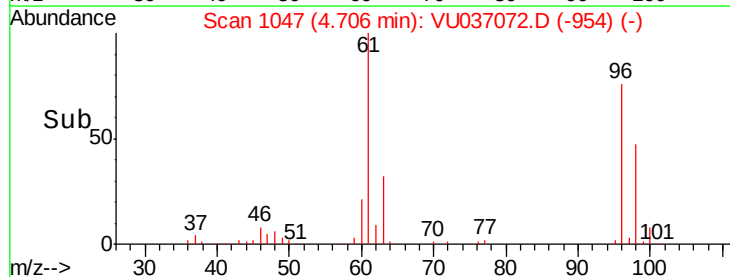
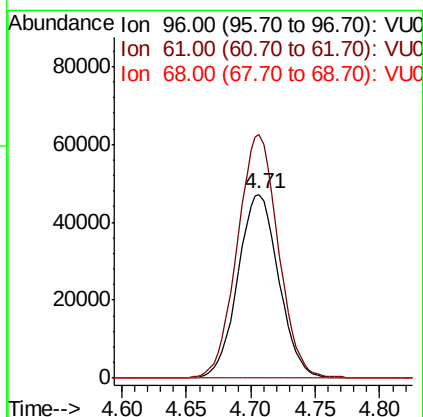
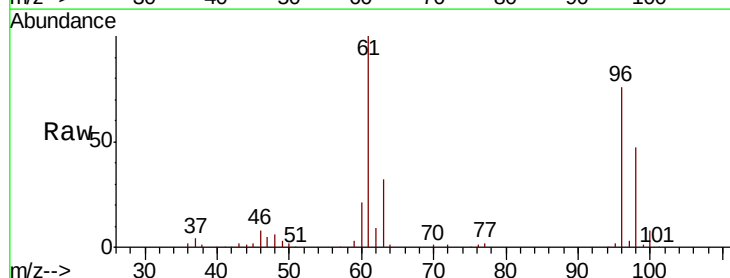
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

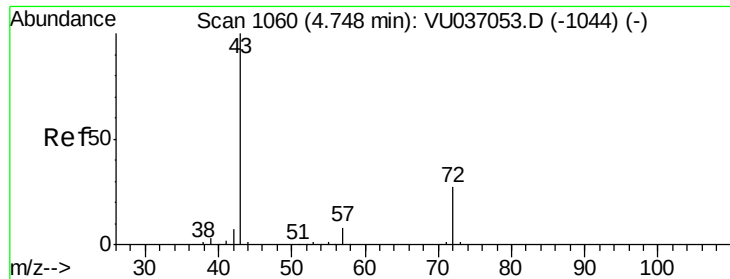
Tot Ion: 63 Resp: 184198
 Ion Ratio Lower Upper
 63 100
 65 31.0 21.3 39.5
 83 12.8 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 52.473 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

Tgt Ion: 96 Resp: 103915
 Ion Ratio Lower Upper
 96 100
 61 132.3 93.1 172.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 114.579 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampled :

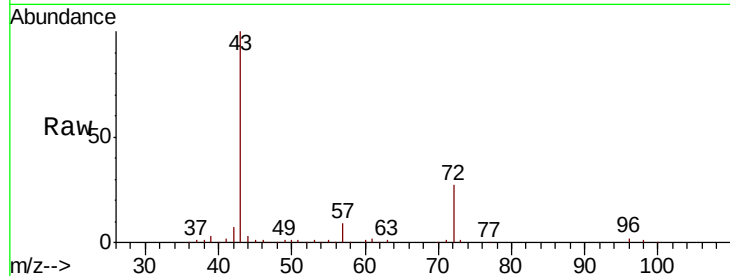
VSTD05048

Tot Ion: 43 Resp: 204344

Ion Ratio Lower Upper

43 100

72 28.0 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU037053.D (-1044) (-)

Ion 72.00 (71.70 to 72.70): VU037053.D (-1044) (-)

4.75

100000

80000

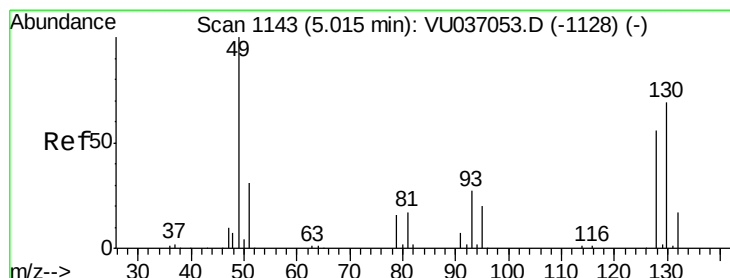
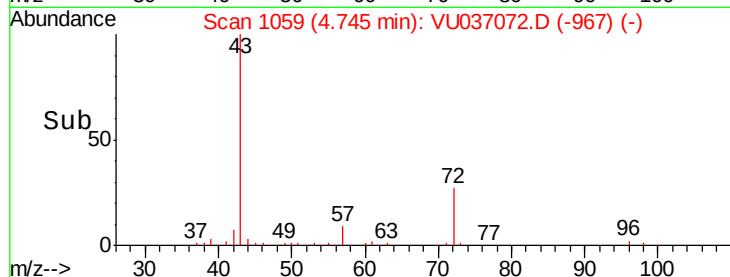
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 54.480 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Tgt Ion: 128 Resp: 48859

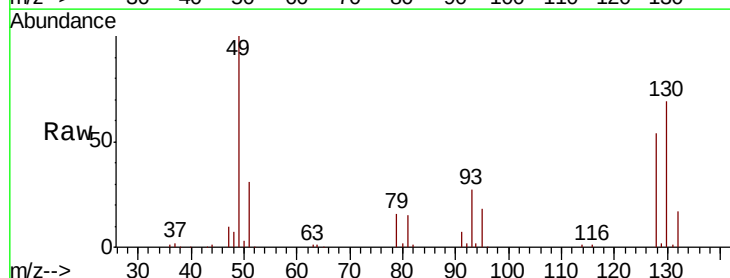
Ion Ratio Lower Upper

128 100

49 185.5 126.5 234.9

130 127.4 86.0 159.8

51 57.4 47.3 70.9



Abundance Ion 128.00 (127.70 to 128.70): VU037053.D (-1128) (-)

Ion 49.00 (48.70 to 49.70): VU037053.D (-1128) (-)

Ion 130.00 (129.70 to 130.70): VU037053.D (-1128) (-)

Ion 51.00 (50.70 to 51.70): VU037053.D (-1128) (-)

60000

50000

40000

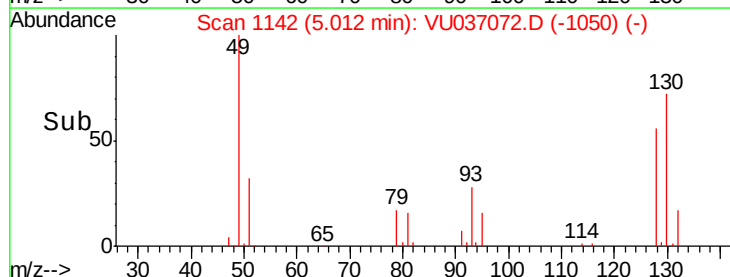
30000

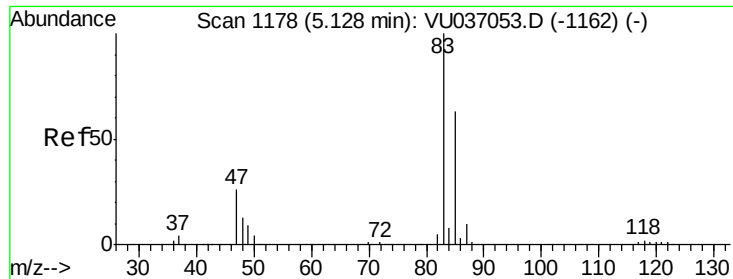
20000

10000

0

Time-->

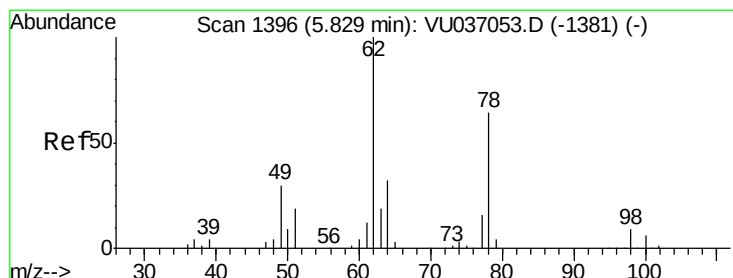
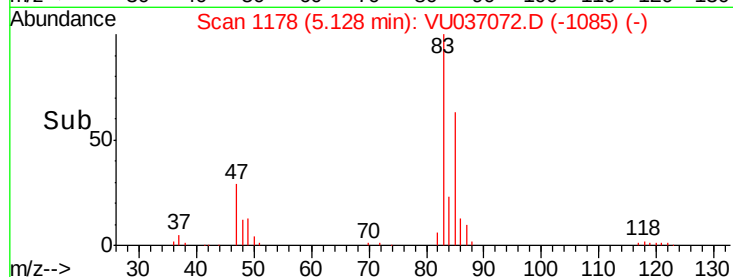
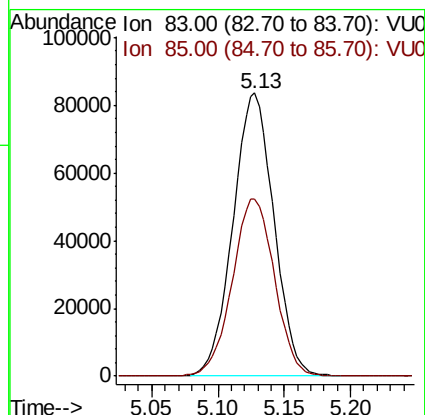
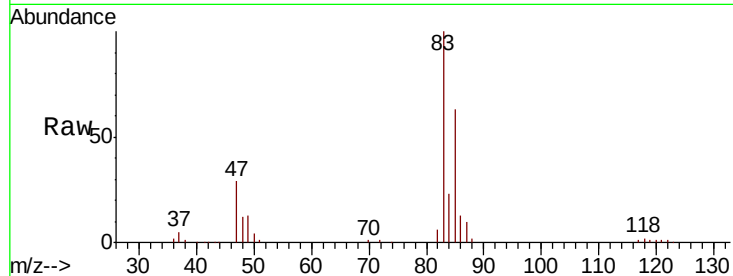




#25
Chloroform
Concen: 54.030 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

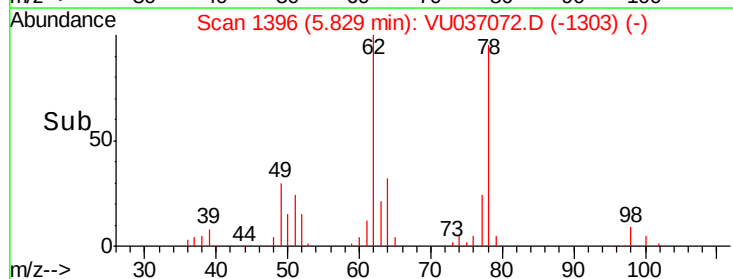
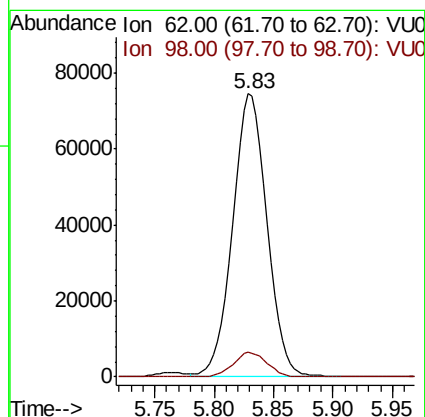
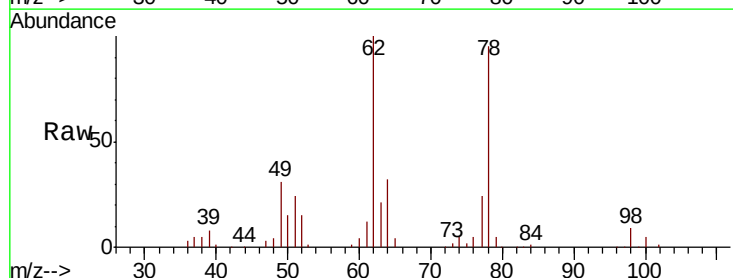
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

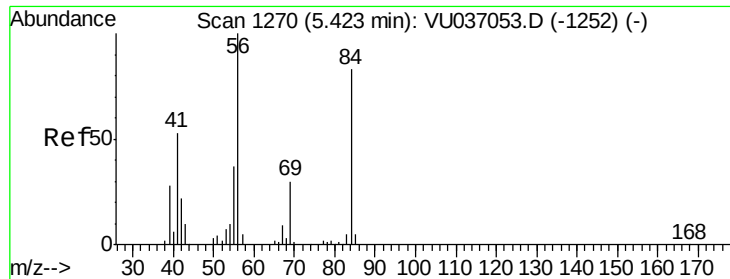
Tot Ion: 83 Resp: 179404
Ion Ratio Lower Upper
83 100
85 62.6 45.1 83.9



#27
1,2-Dichloroethane
Concen: 55.337 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

Tgt Ion: 62 Resp: 149590
Ion Ratio Lower Upper
62 100
98 8.7 7.1 10.7

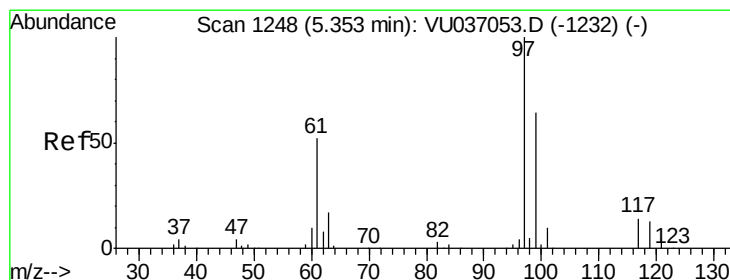
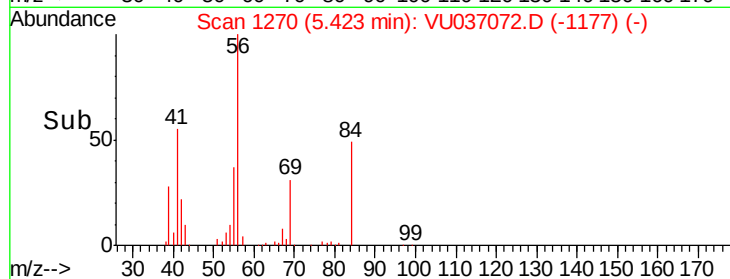
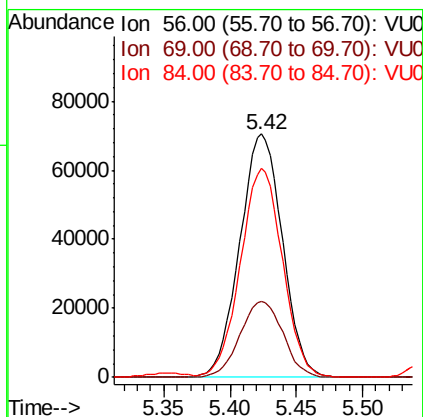
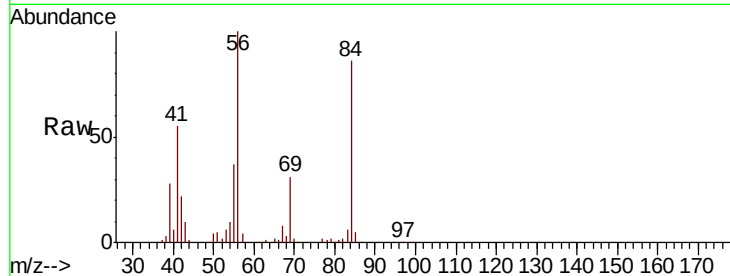




#29
Cyclohexane
Concen: 47.737 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

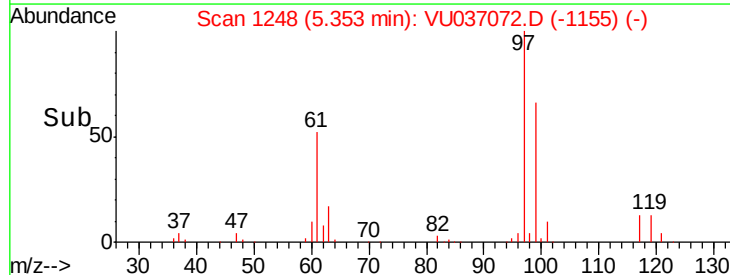
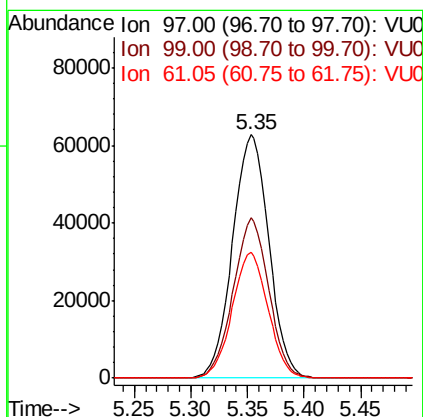
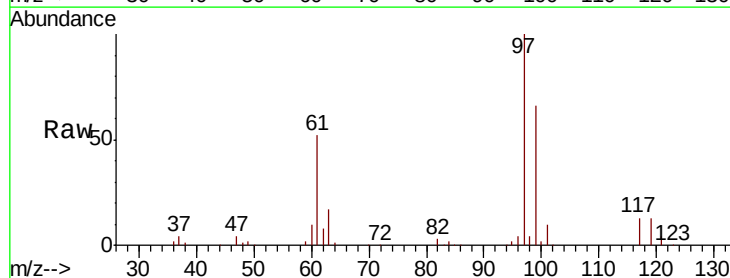
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

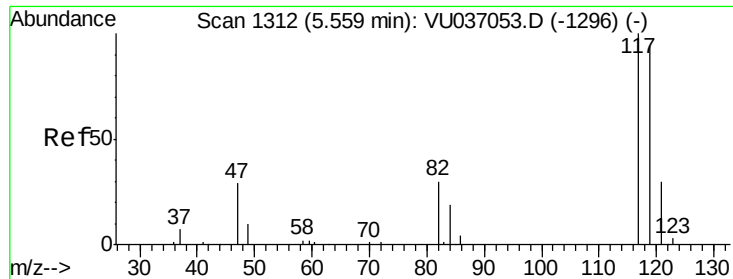
Tot Ion: 56 Resp: 157624
Ion Ratio Lower Upper
56 100
69 31.4 24.6 37.0
84 84.6 67.0 100.4



#30
1,1,1-Trichloroethane
Concen: 52.550 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

Tgt Ion: 97 Resp: 140192
Ion Ratio Lower Upper
97 100
99 64.6 50.4 75.6
61 51.0 40.3 60.5





#31

Carbon tetrachloride

Concen: 52.849 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

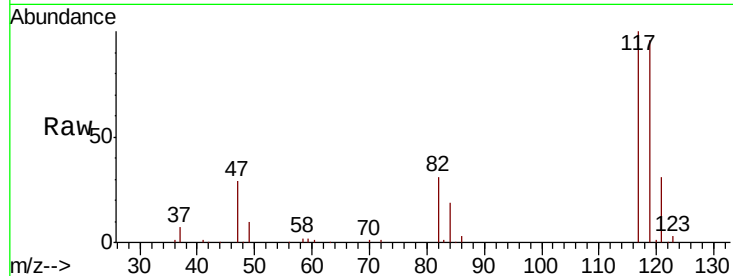
VSTD05048

Tot Ion:117 Resp: 110509

Ion Ratio Lower Upper

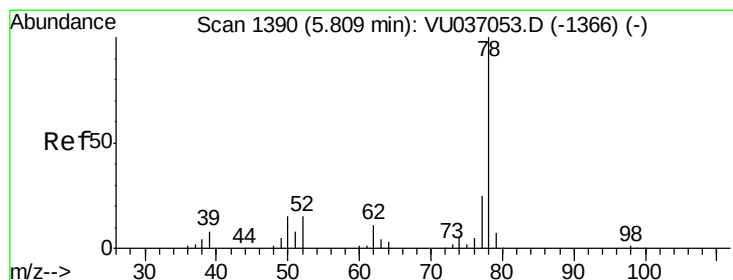
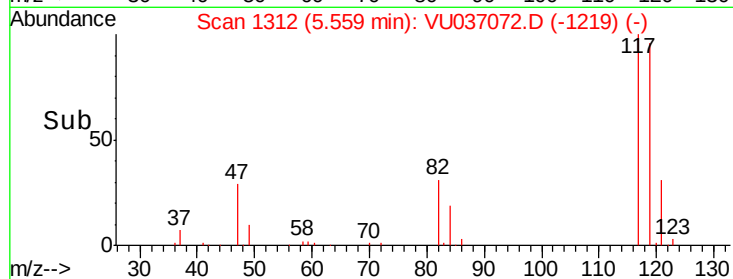
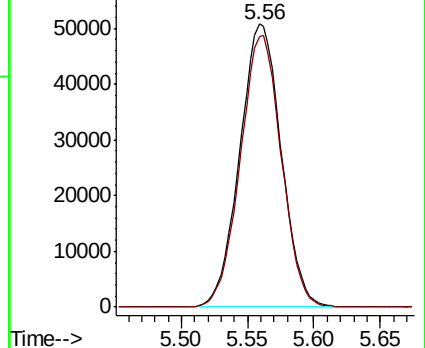
117 100

119 94.9 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: 52.882 ug/L

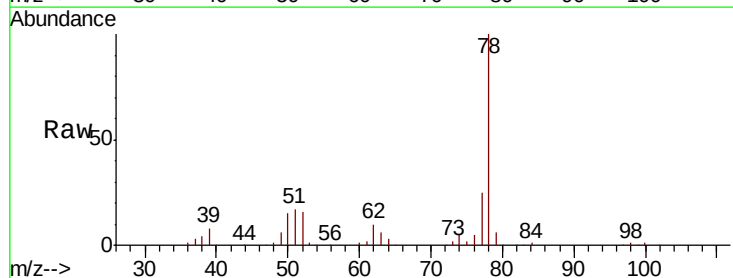
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

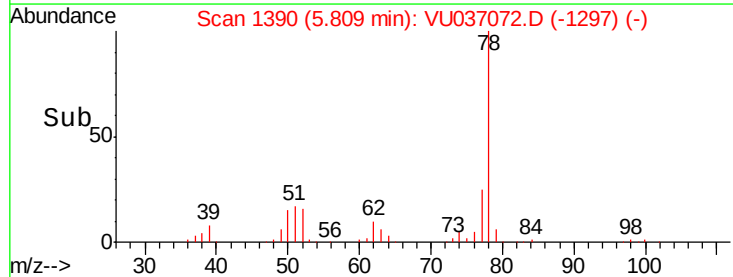
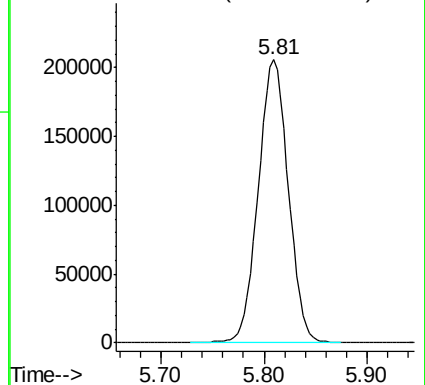
Lab File: VU037072.D

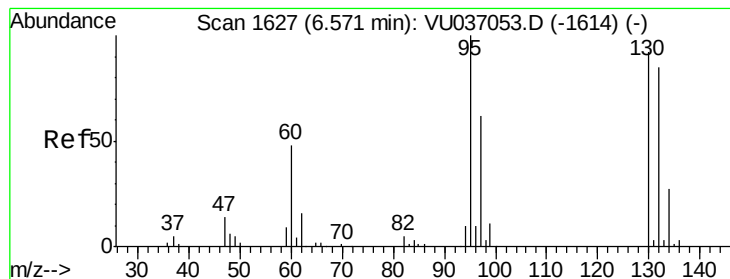
Acq: 05 Mar 2020 10:09

Tgt Ion: 78 Resp: 415691



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.970 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tot Ion: 95 Resp: 98477

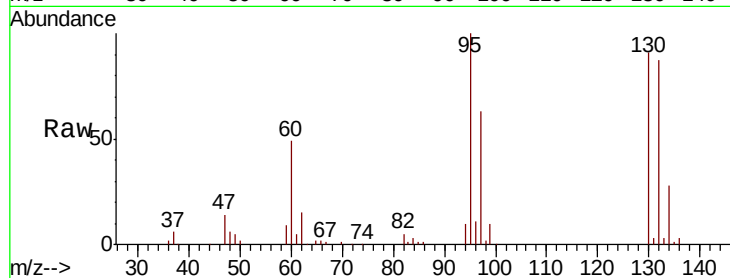
Ion Ratio Lower Upper

95 100

97 62.7 44.1 81.9

132 86.7 60.6 112.6

130 90.6 64.9 120.5

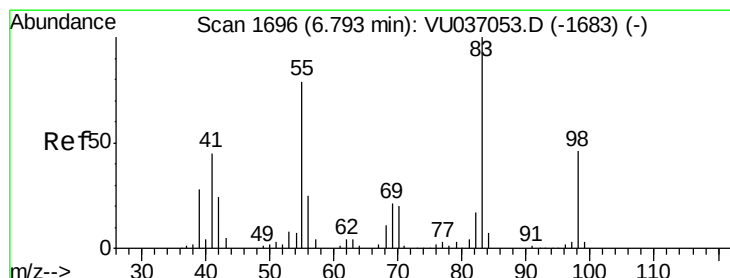
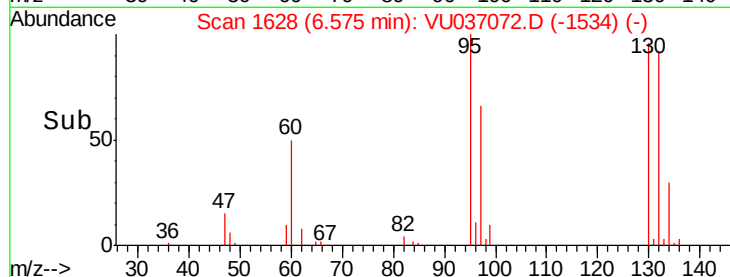
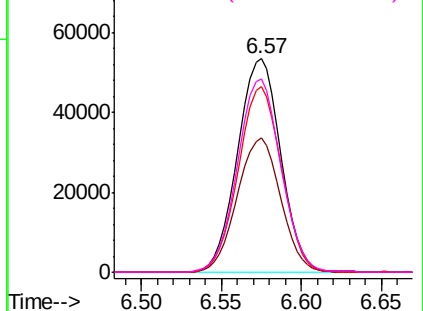


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 49.807 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

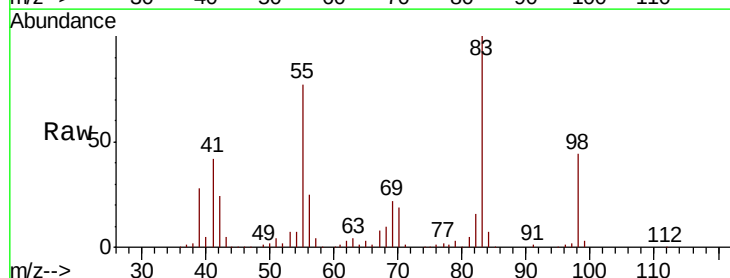
Tgt Ion: 83 Resp: 166843

Ion Ratio Lower Upper

83 100

55 77.6 62.6 93.8

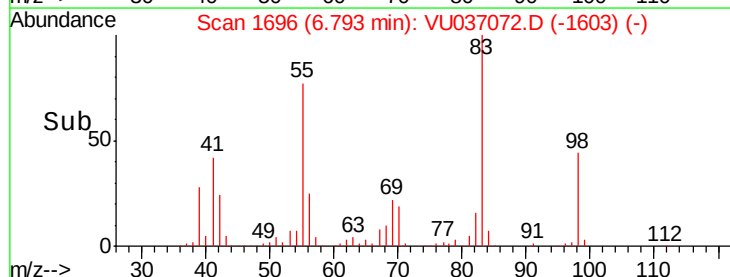
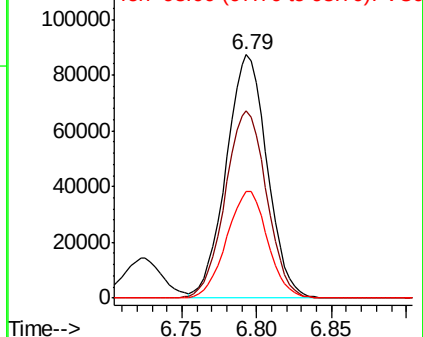
98 43.8 35.1 52.7

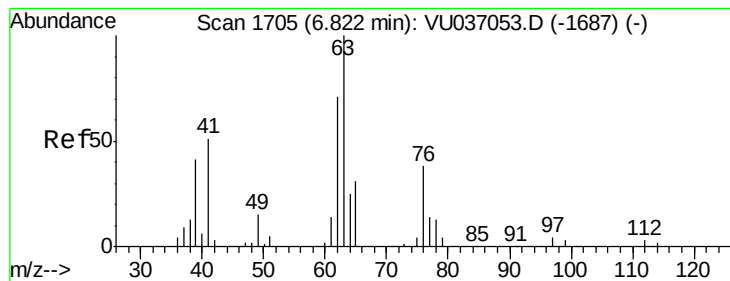


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.359 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

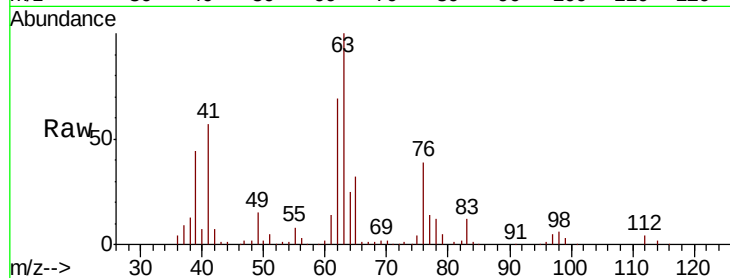
VSTD05048

Tot Ion: 63 Resp: 110821

Ion Ratio Lower Upper

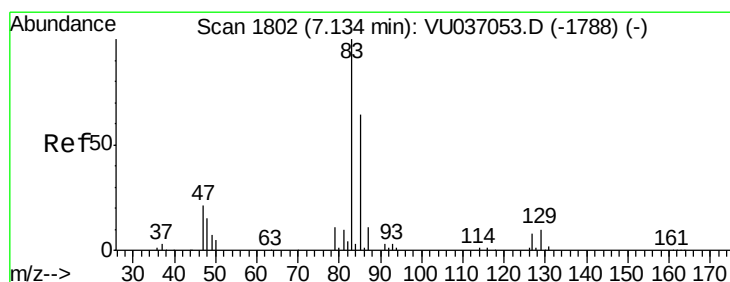
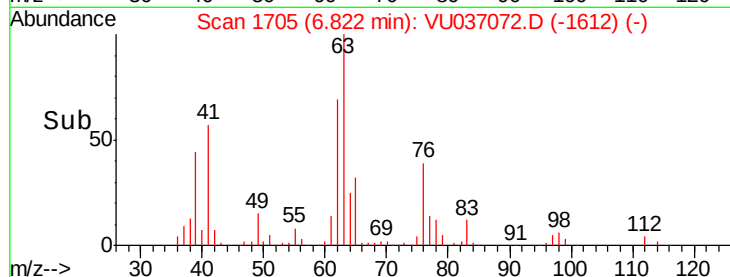
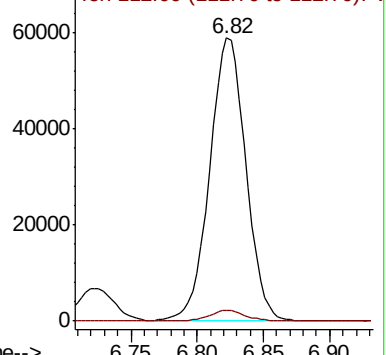
63 100

112 3.8 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU037053.D (-1687) (-)

Ion 112.00 (111.70 to 112.70): VU037053.D (-1687) (-)



#38

Bromodichloromethane

Concen: 52.337 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

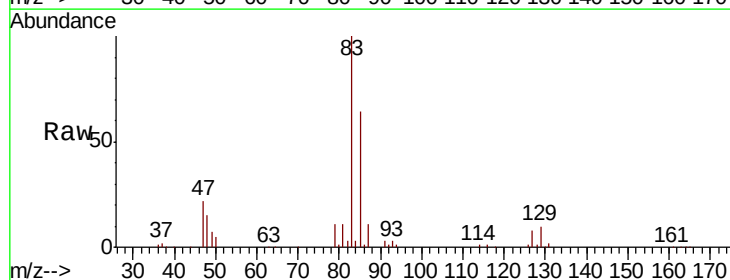
Tgt Ion: 83 Resp: 130756

Ion Ratio Lower Upper

83 100

85 64.0 43.6 81.0

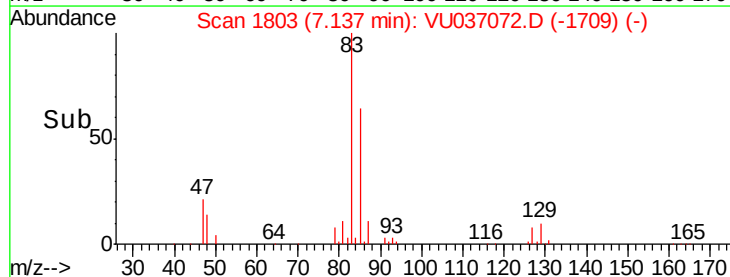
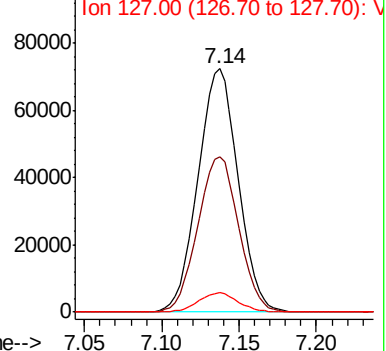
127 7.9 6.0 9.0

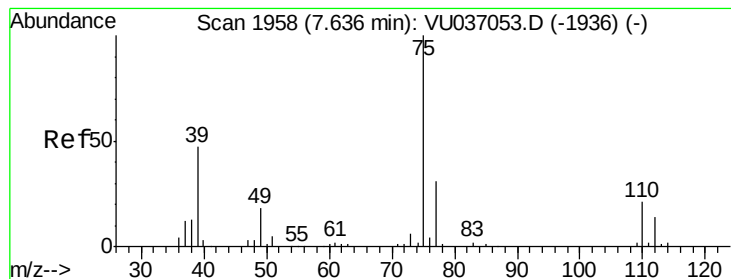


Abundance Ion 83.00 (82.70 to 83.70): VU037053.D (-1788) (-)

Ion 85.00 (84.70 to 85.70): VU037053.D (-1788) (-)

Ion 127.00 (126.70 to 127.70): VU037053.D (-1788) (-)



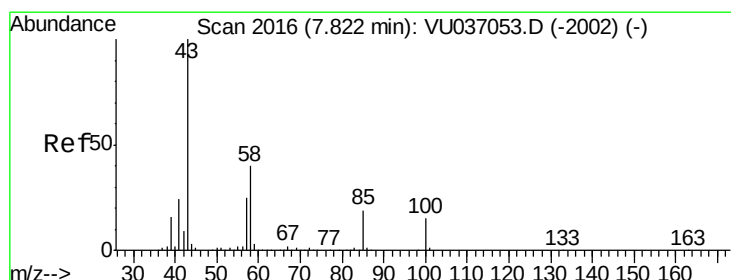
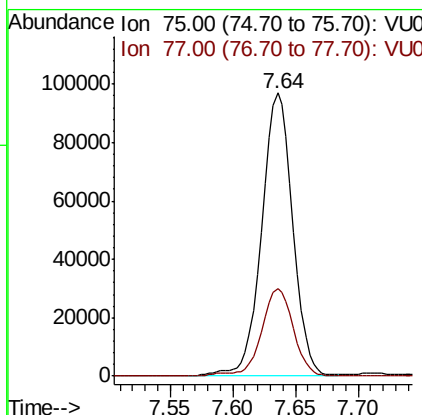
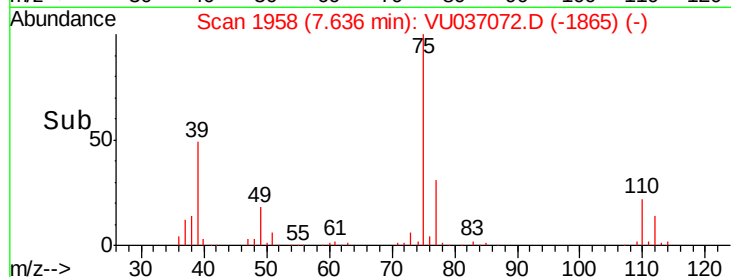
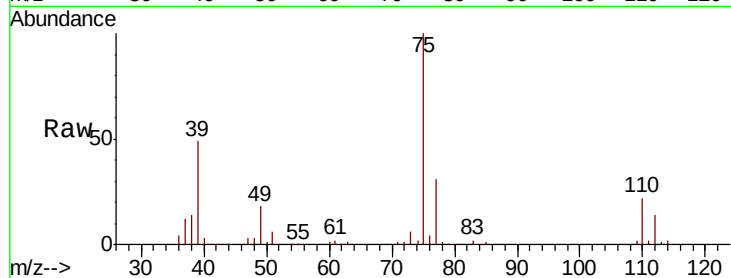


#39

cis-1,3-Dichloropropene
 Concen: 51.177 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

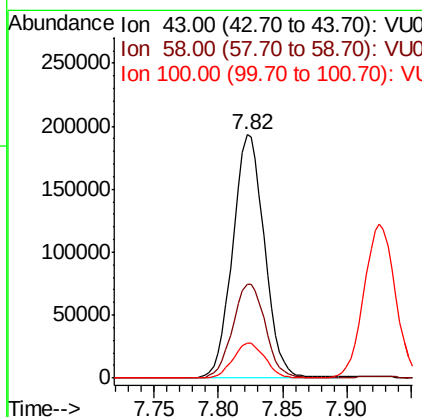
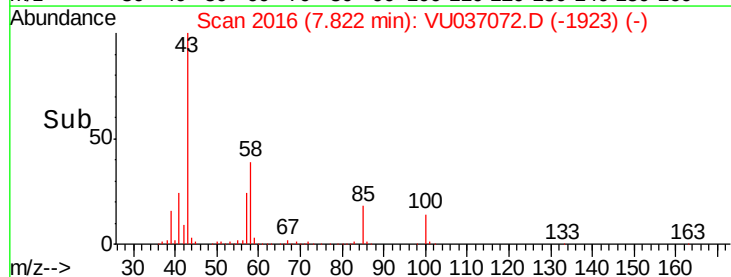
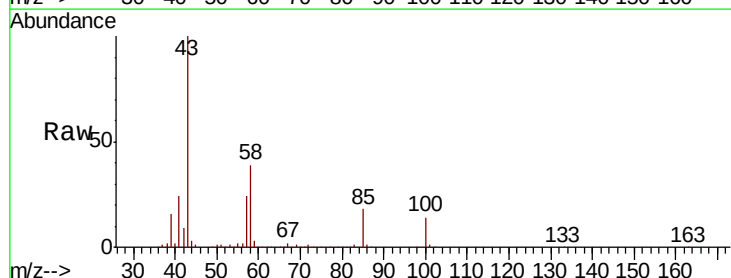
Tot Ion: 75 Resp: 166854
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.0 41.0

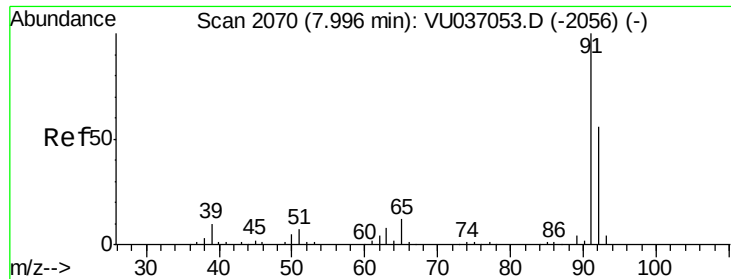


#40

4-Methyl-2-pentanone
 Concen: 106.207 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

Tgt Ion: 43 Resp: 331235
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.8 47.6
 100 14.4 11.5 17.3





#42

Toluene

Concen: 52.464 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

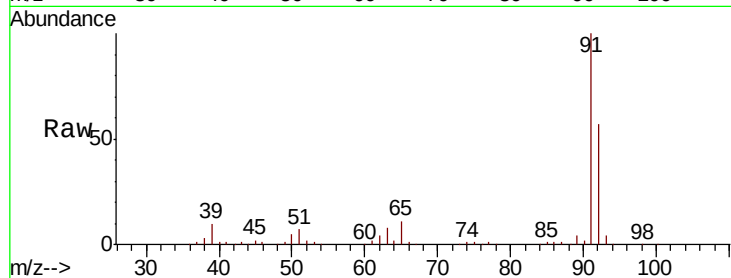
VSTD05048

Tot Ion: 91 Resp: 439369

Ion Ratio Lower Upper

91 100

92 57.3 39.4 73.2



Abundance Ion 91.00 (90.70 to 91.70): VU037053.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU037053.D (-2056) (-)

8.00

250000

200000

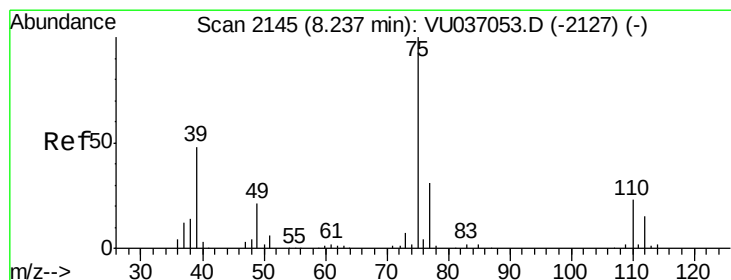
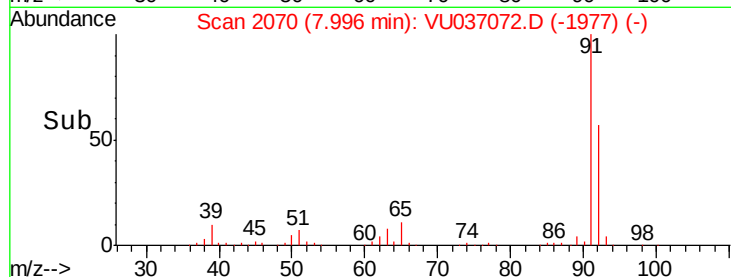
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.626 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU037072.D

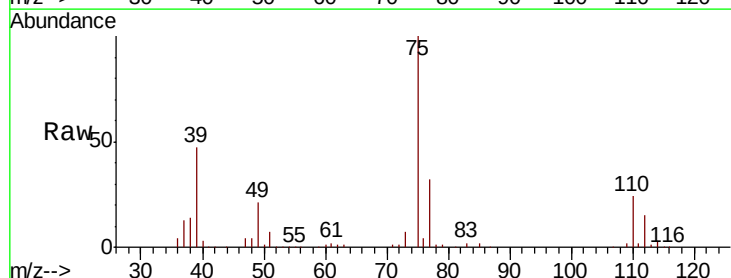
Acq: 05 Mar 2020 10:09

Tgt Ion: 75 Resp: 146013

Ion Ratio Lower Upper

75 100

77 32.0 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU037053.D (-2127) (-)

Ion 77.00 (76.70 to 77.70): VU037053.D (-2127) (-)

8.24

100000

80000

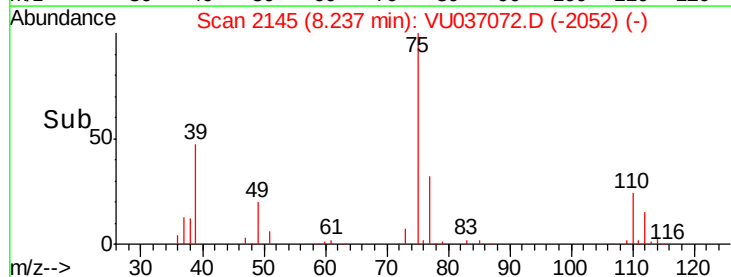
60000

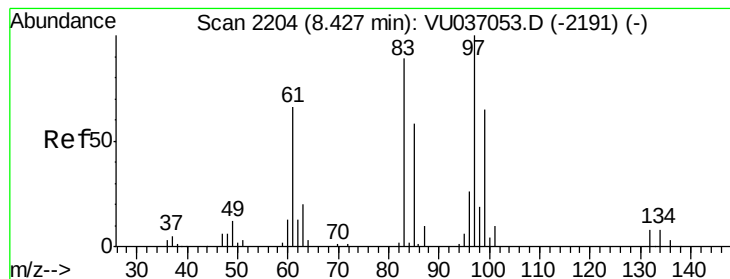
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 54.150 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tot Ion: 97 Resp: 101918

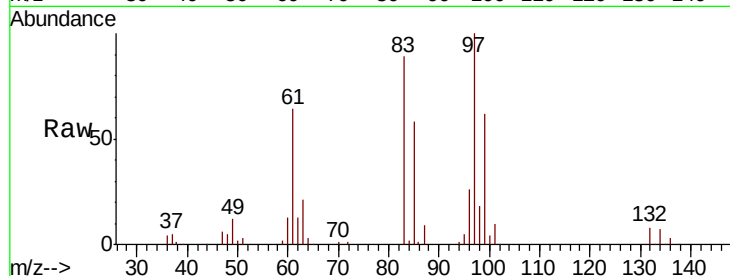
Ion Ratio Lower Upper

97 100

99 61.7 43.6 81.0

83 89.0 62.7 116.5

85 58.0 40.3 74.9

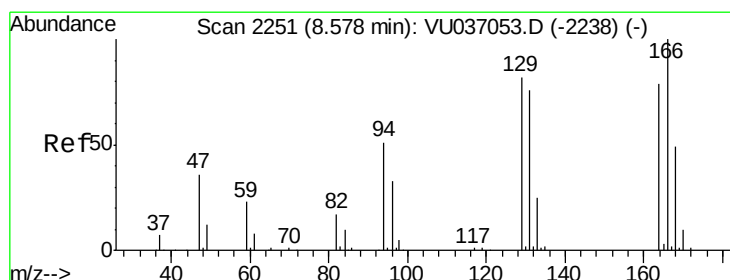
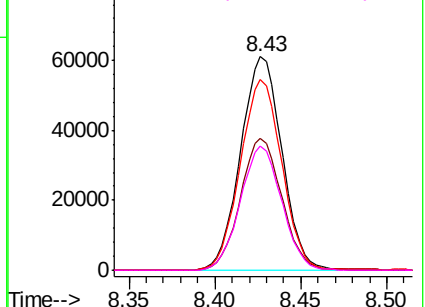
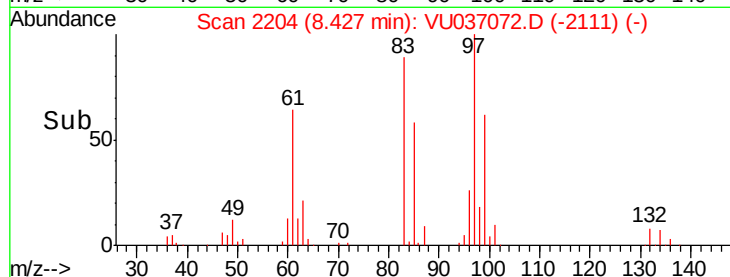


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 52.421 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Tgt Ion: 164 Resp: 66720

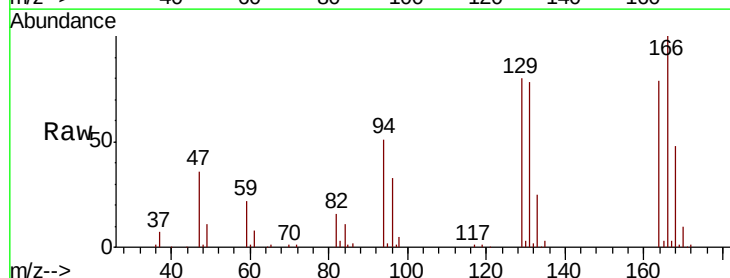
Ion Ratio Lower Upper

164 100

129 100.4 72.0 133.8

131 98.5 67.9 126.1

166 126.0 87.1 161.7

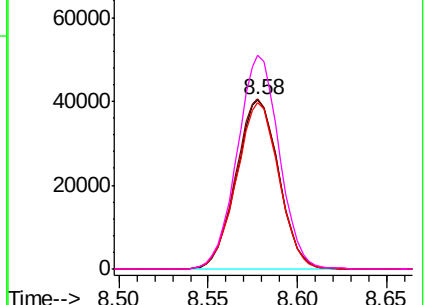
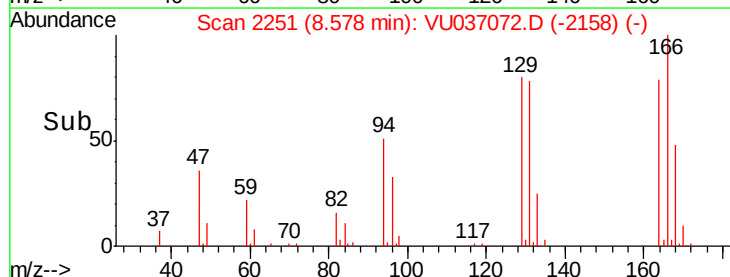


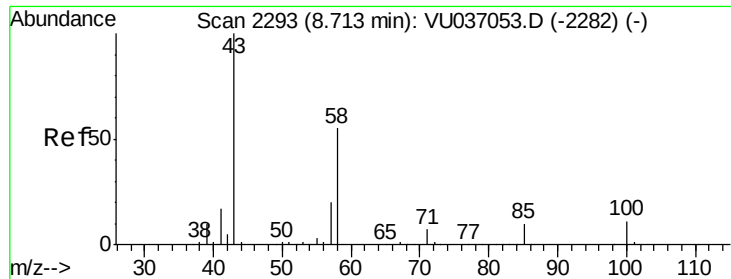
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

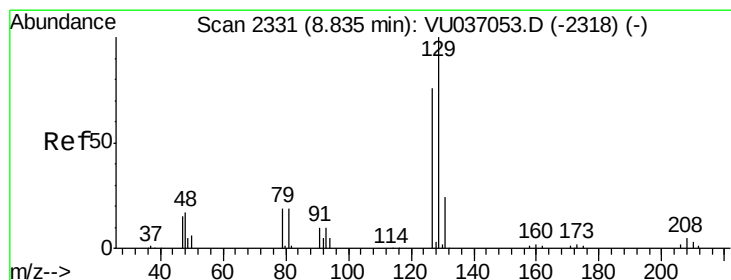
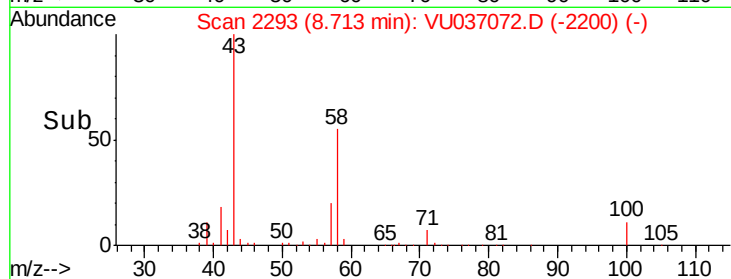
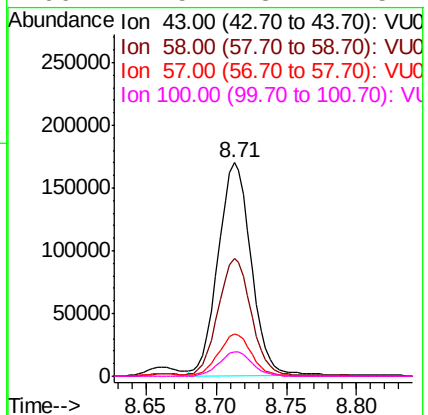
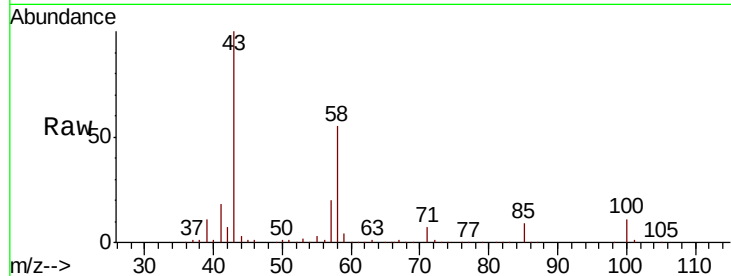




#48
2-Hexanone
Concen: 111.189 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

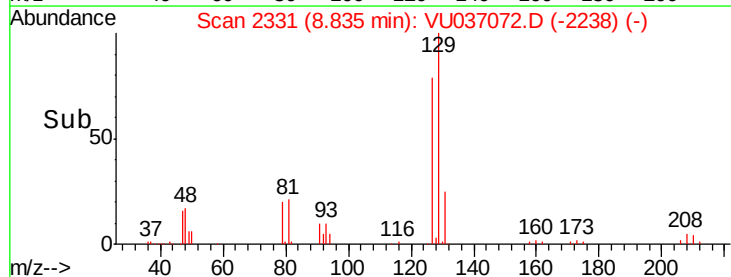
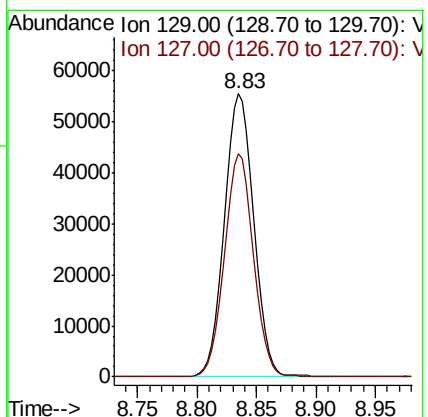
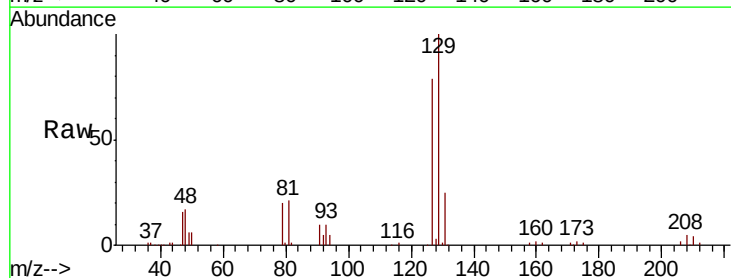
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

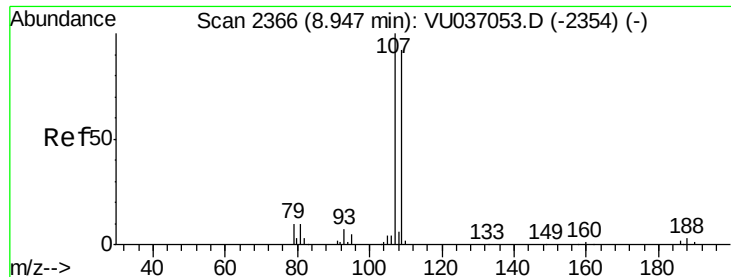
Tot Ion: 43 Resp: 276724
Ion Ratio Lower Upper
43 100
58 54.9 43.5 65.3
57 19.7 15.1 22.7
100 11.5 8.7 13.1



#49
Dibromochloromethane
Concen: 53.244 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

Tgt Ion: 129 Resp: 95120
Ion Ratio Lower Upper
129 100
127 79.1 54.3 100.8

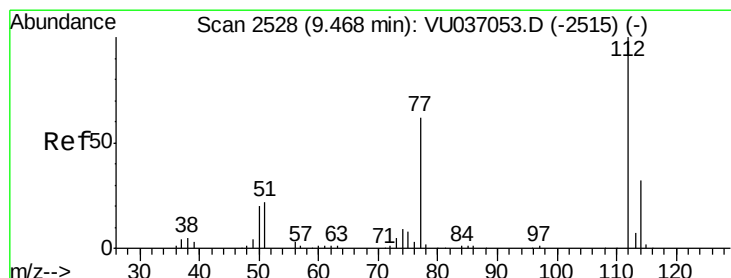
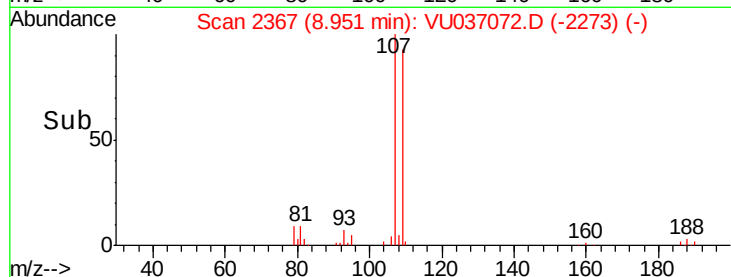
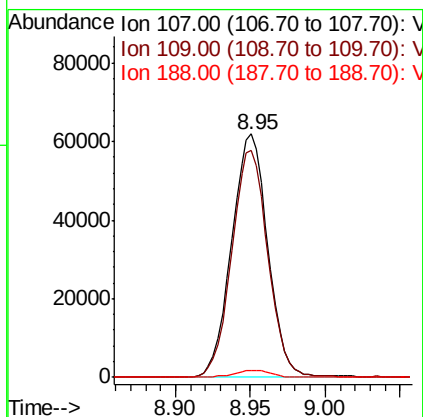
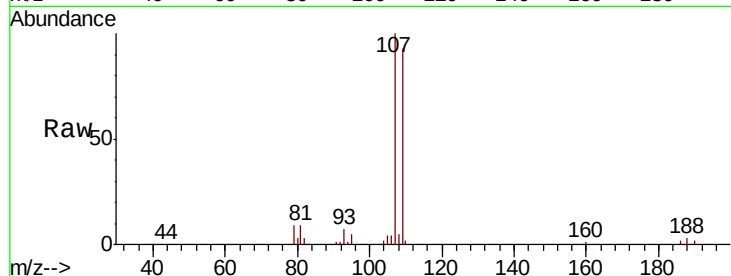




#50
1,2-Dibromoethane
Concen: 52.950 ug/L
RT: 8.95 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

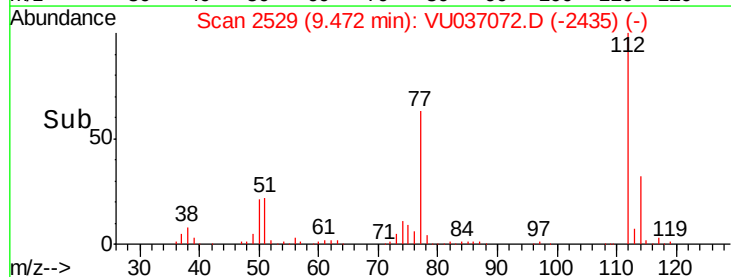
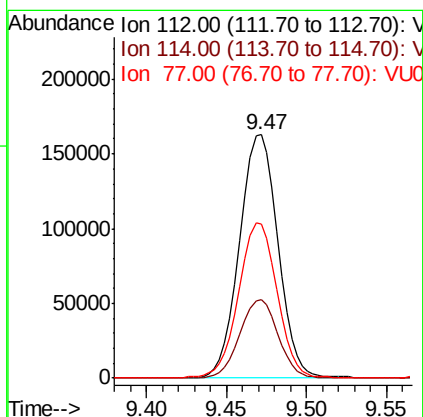
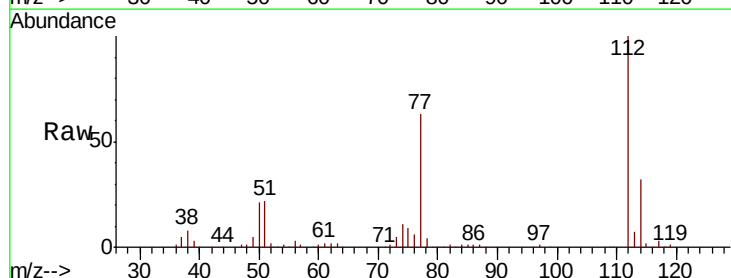
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

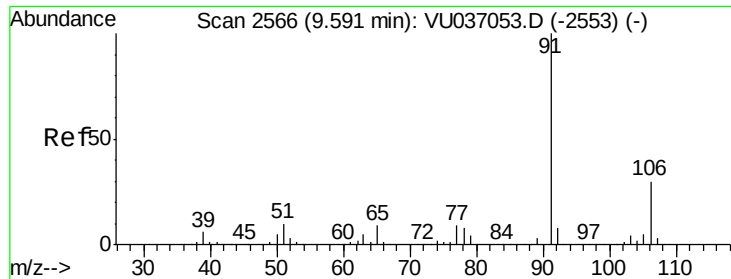
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	65.9	122.5
188	3.0	2.2	3.2



#51
Chlorobenzene
Concen: 53.833 ug/L
RT: 9.47 min Scan# 2529
Delta R.T. 0.00 min
Lab File: VU037072.D
Acq: 05 Mar 2020 10:09

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.3	41.5
77	63.3	50.1	75.1





#52

Ethylbenzene

Concen: 52.079 ug/L

RT: 9.59 min Scan# 2567

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

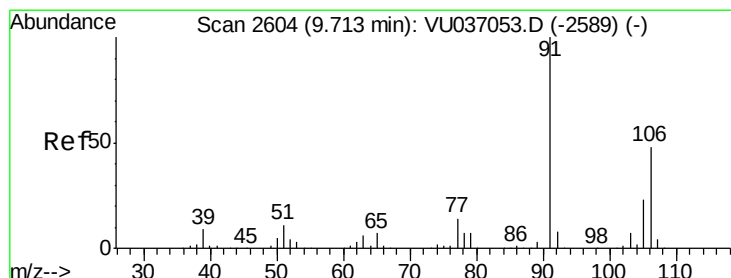
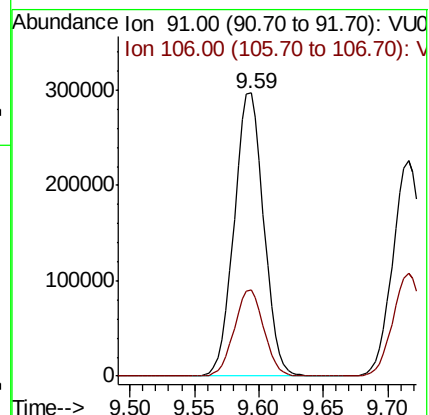
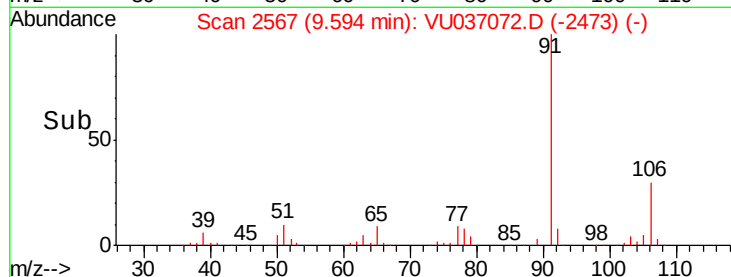
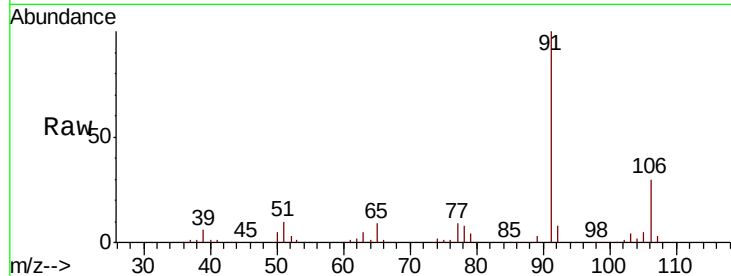
VSTD05048

Tot Ion: 91 Resp: 472813

Ion Ratio Lower Upper

91 100

106 30.4 21.1 39.1



#53

m,p-Xylene

Concen: 52.720 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU037072.D

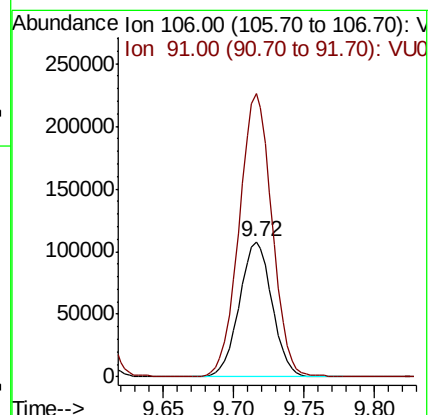
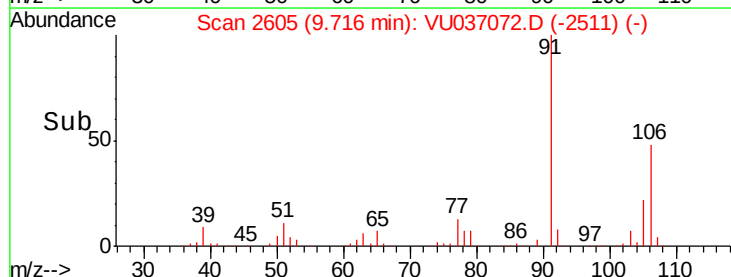
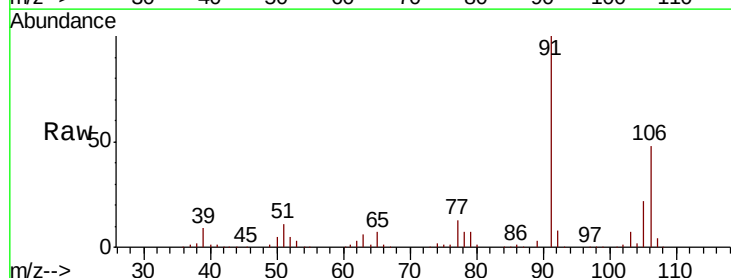
Acq: 05 Mar 2020 10:09

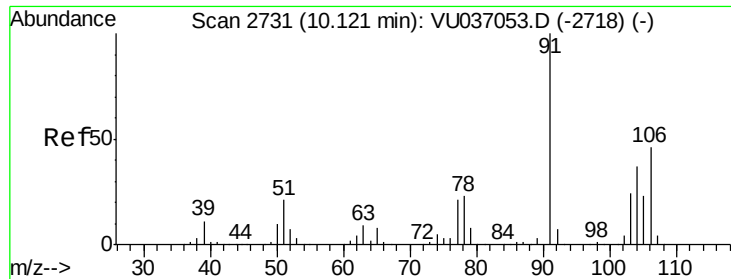
Tgt Ion: 106 Resp: 175569

Ion Ratio Lower Upper

106 100

91 209.9 145.3 269.9





#54

o-xylene

Concen: 52.232 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

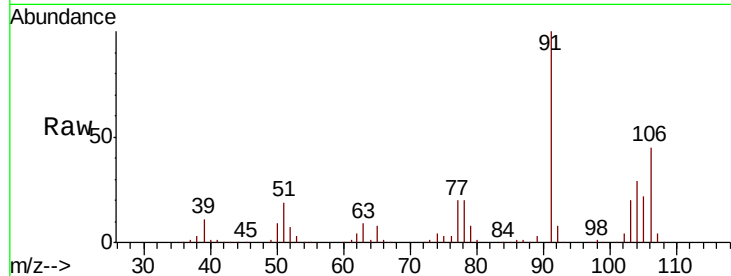
VSTD05048

Tot Ion:106 Resp: 173485

Ion Ratio Lower Upper

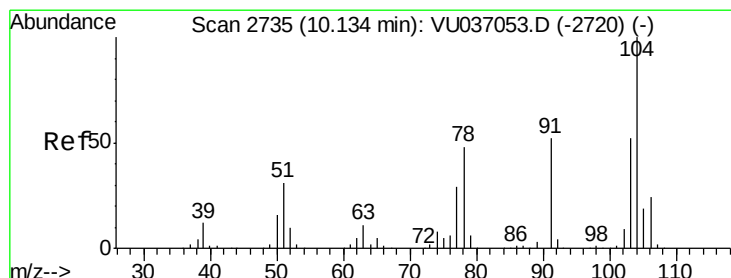
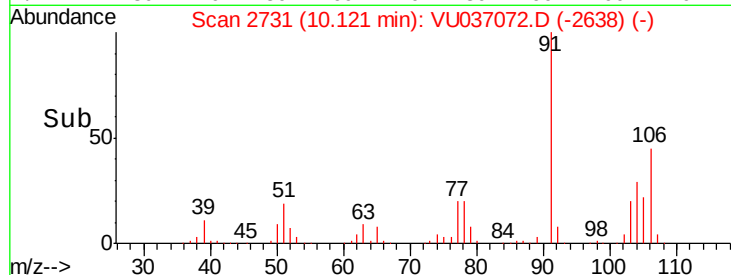
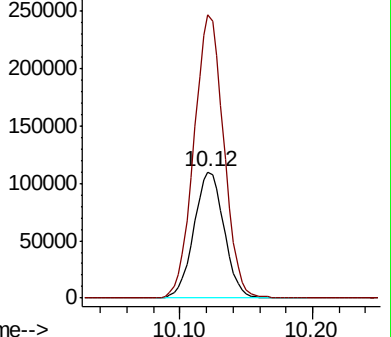
106 100

91 223.7 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.890 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU037072.D

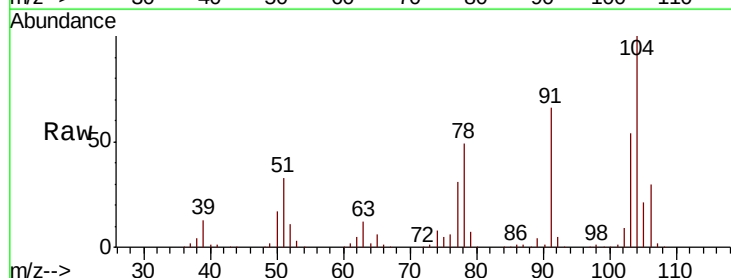
Acq: 05 Mar 2020 10:09

Tgt Ion:104 Resp: 292602

Ion Ratio Lower Upper

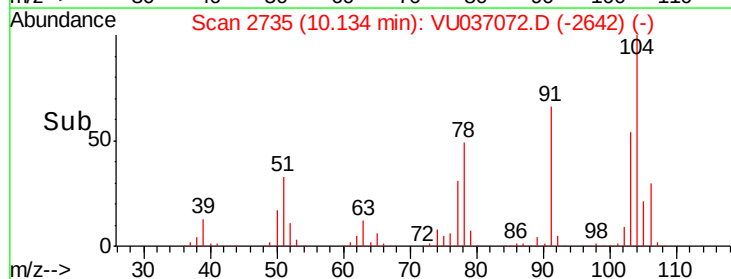
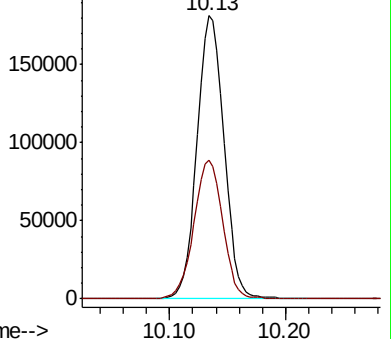
104 100

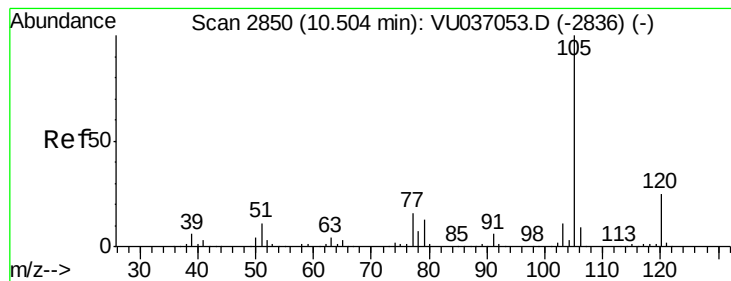
78 49.1 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.721 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

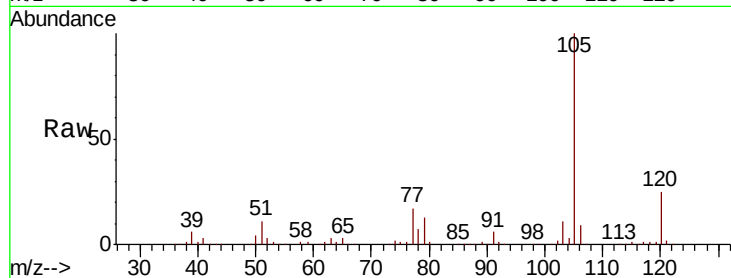
Tot Ion:105 Resp: 449764

Ion Ratio Lower Upper

105 100

120 25.3 20.5 30.7

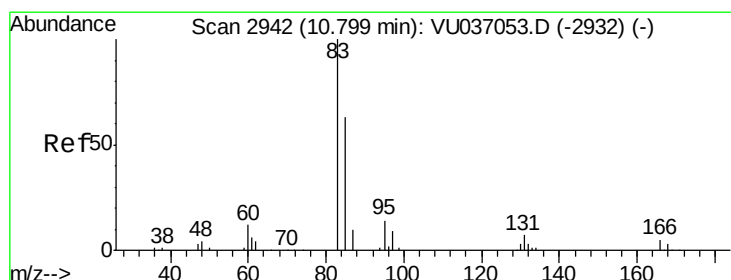
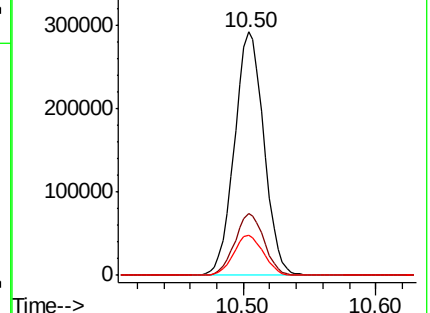
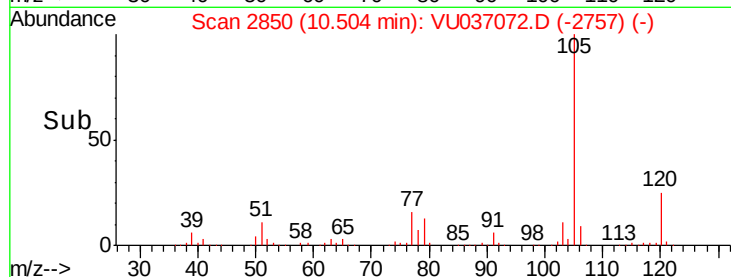
77 16.7 13.1 19.7



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: 55.851 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

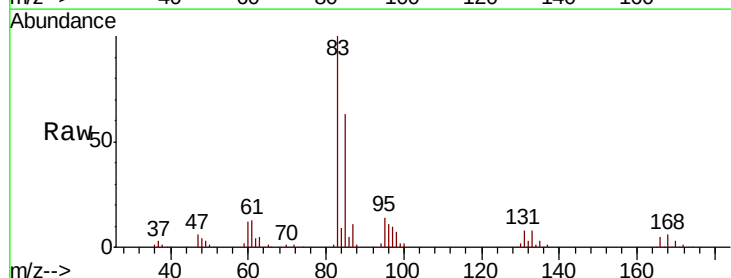
Tgt Ion: 83 Resp: 187933

Ion Ratio Lower Upper

83 100

85 63.2 45.5 84.5

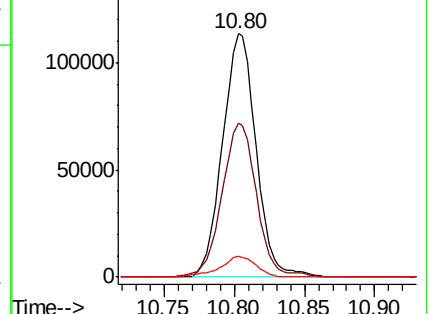
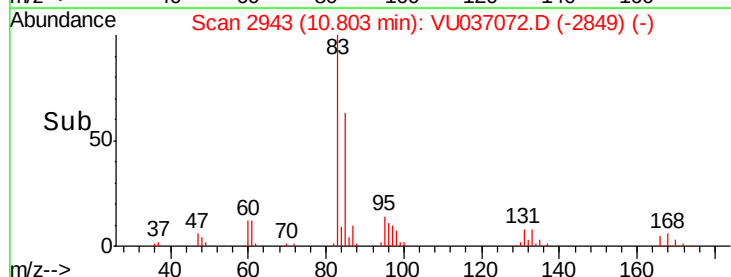
131 8.4 6.8 10.2

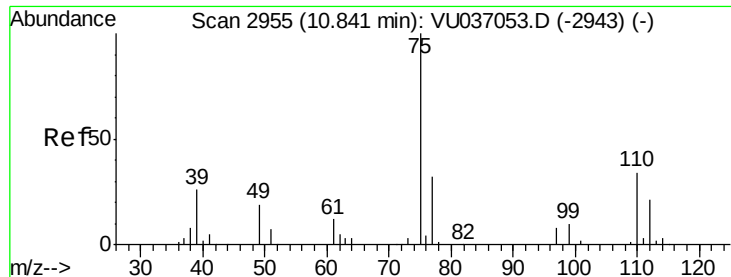


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 55.283 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

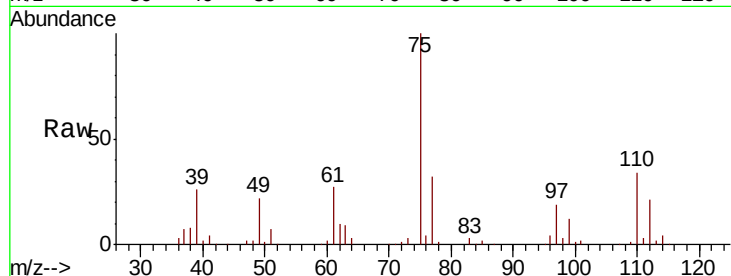
VSTD05048

Tot Ion: 75 Resp: 150525

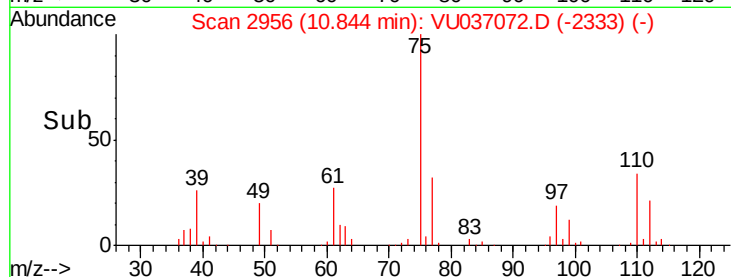
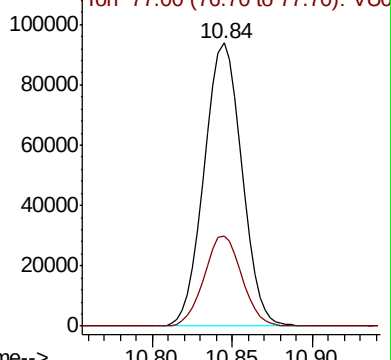
Ion Ratio Lower Upper

75 100

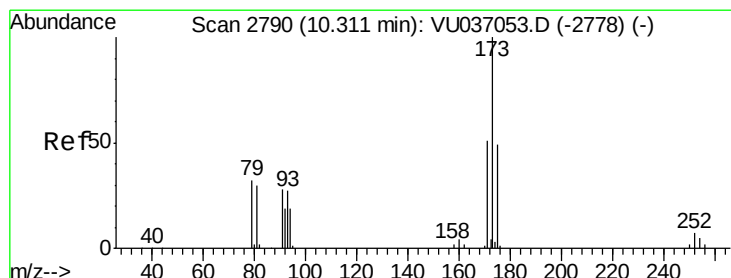
77 31.8 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU037053.D (-2943) (-)



Time-->



#61

Bromoform

Concen: 54.044 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

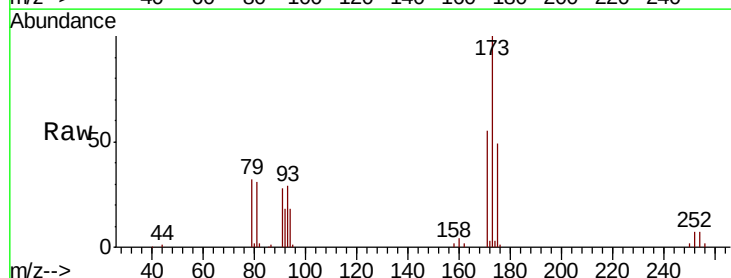
Tgt Ion: 173 Resp: 65008

Ion Ratio Lower Upper

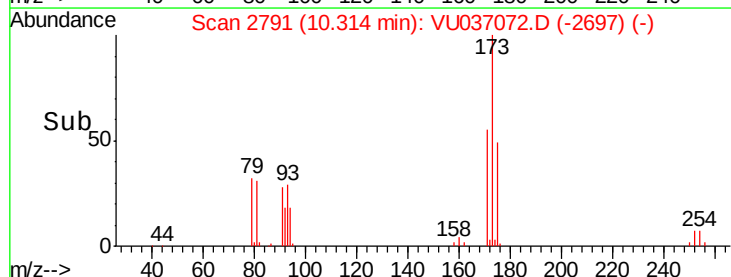
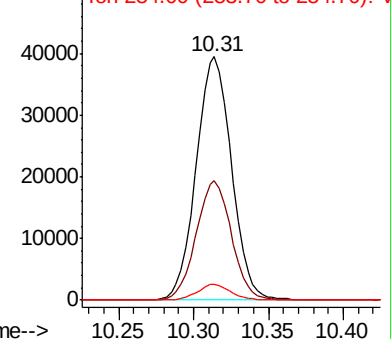
173 100

175 48.7 39.0 58.6

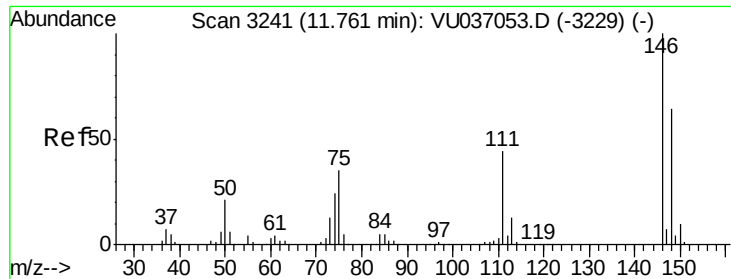
254 6.2 4.6 6.8



Abundance Ion 173.00 (172.70 to 173.70): VU037053.D (-2778) (-)



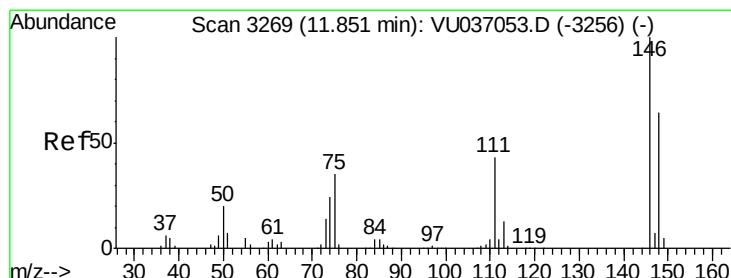
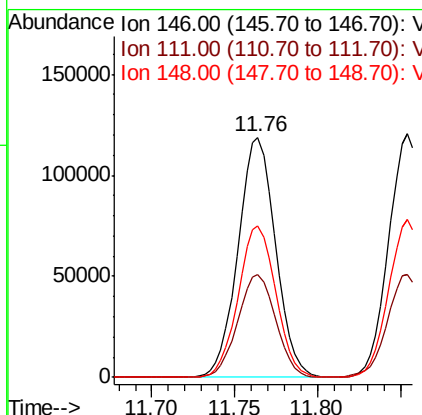
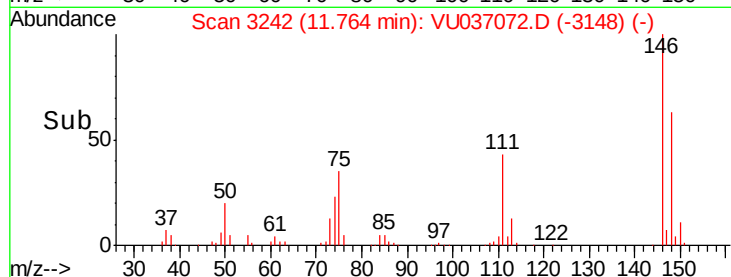
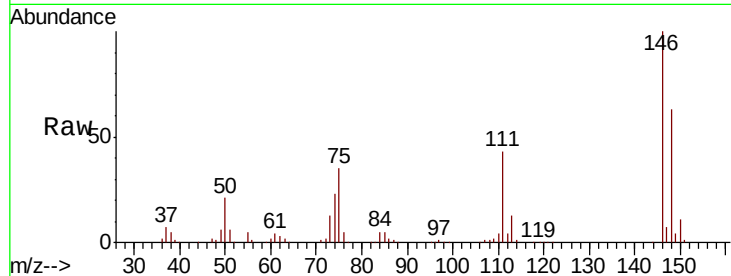
Time-->



#62
 1,3-Dichlorobenzene
 Concen: 54.151 ug/L
 RT: 11.76 min Scan# 3242
 Delta R.T. 0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

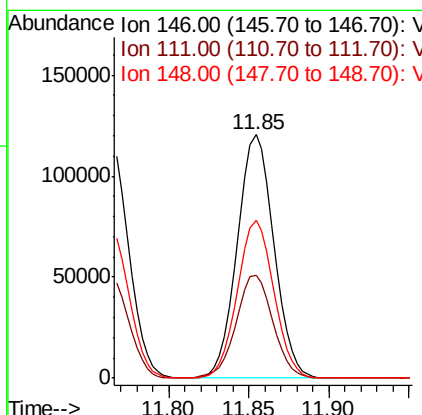
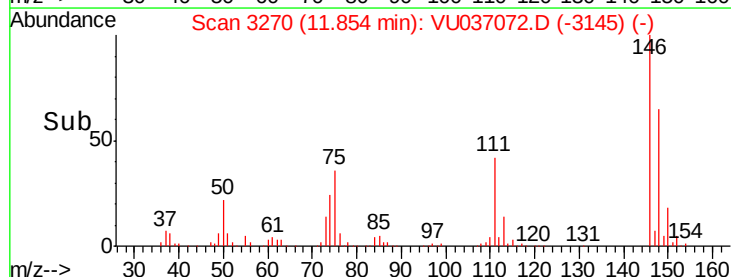
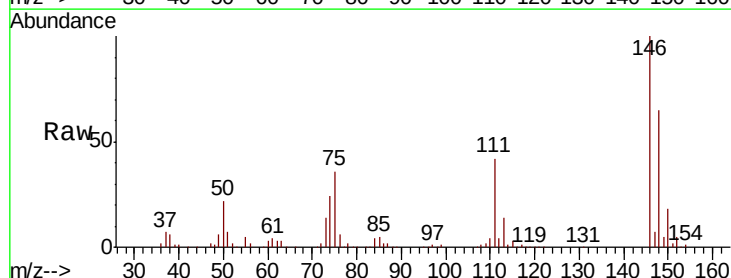
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

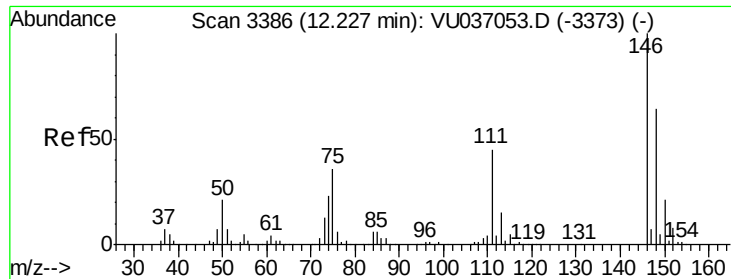
Tot Ion:146 Resp: 186896
 Ion Ratio Lower Upper
 146 100
 111 42.7 30.7 56.9
 148 63.0 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 54.945 ug/L
 RT: 11.85 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

Tgt Ion:146 Resp: 187358
 Ion Ratio Lower Upper
 146 100
 111 42.4 29.8 55.4
 148 64.8 45.1 83.9

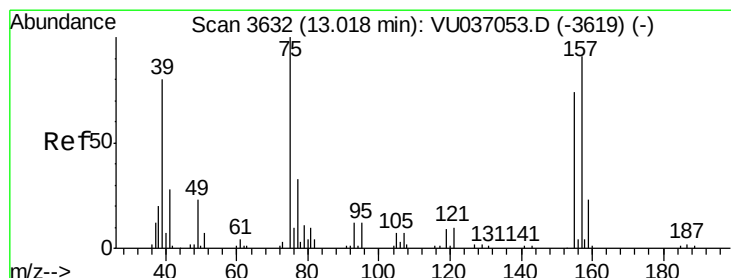
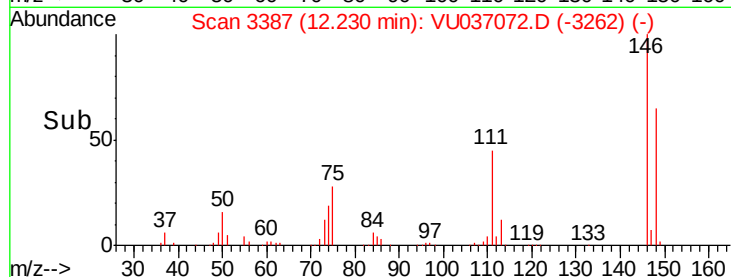
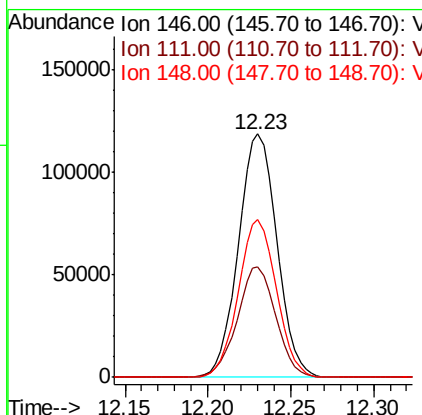
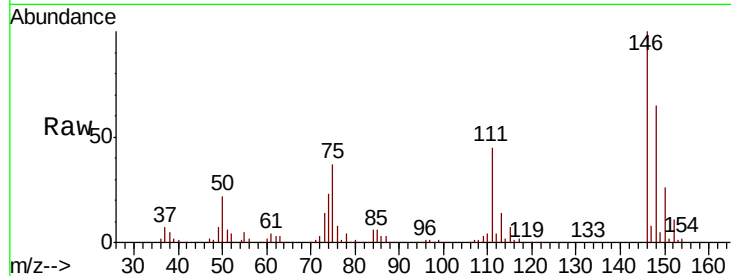




#65
 1,2-Dichlorobenzene
 Concen: 55.812 ug/L
 RT: 12.23 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

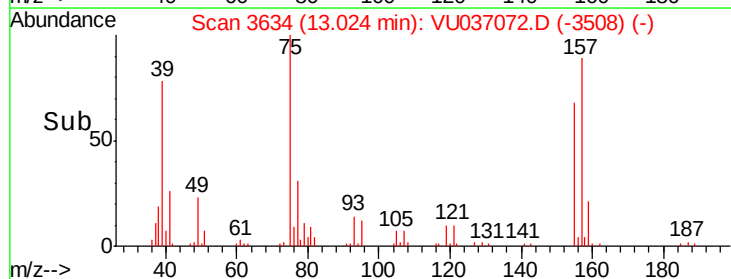
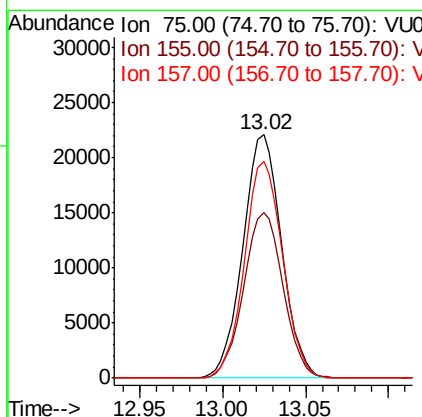
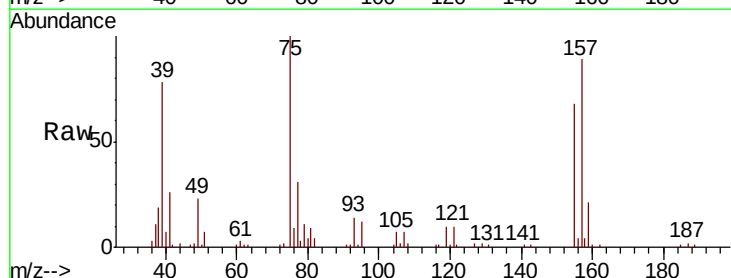
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

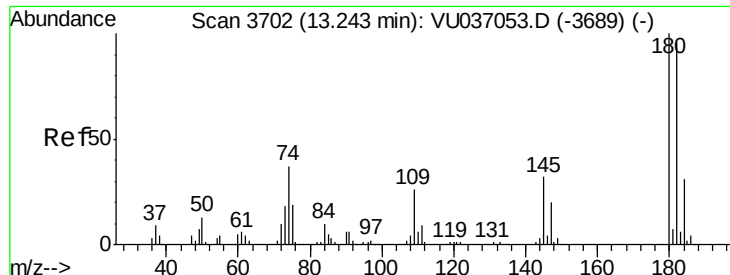
Tot Ion:146 Resp: 192336
 Ion Ratio Lower Upper
 146 100
 111 45.3 35.4 53.0
 148 64.6 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.658 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.01 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

Tgt Ion: 75 Resp: 36001
 Ion Ratio Lower Upper
 75 100
 155 68.0 55.7 83.5
 157 89.0 73.0 109.6

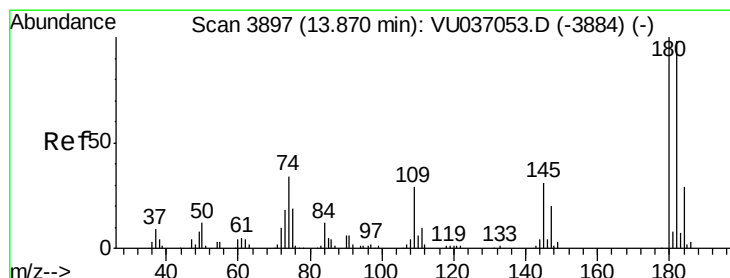
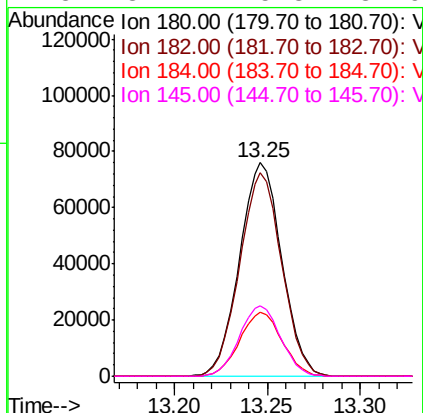
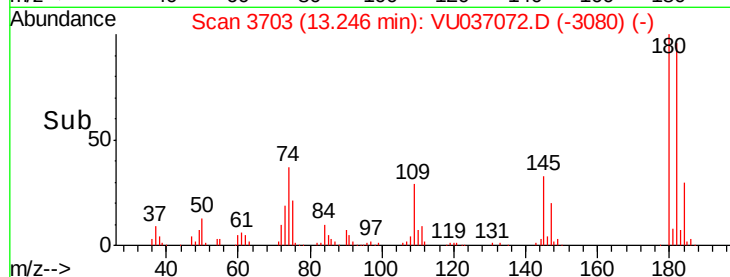
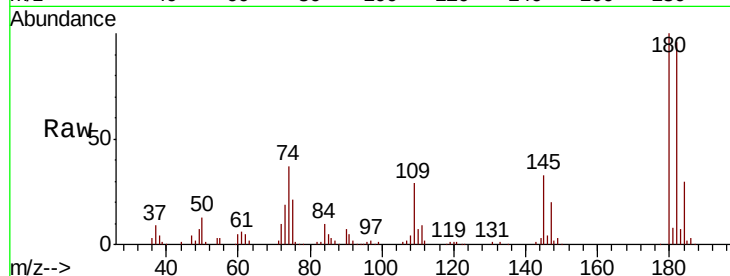




#67
 1,3,5-Trichlorobenzene
 Concen: 54.678 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.00 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

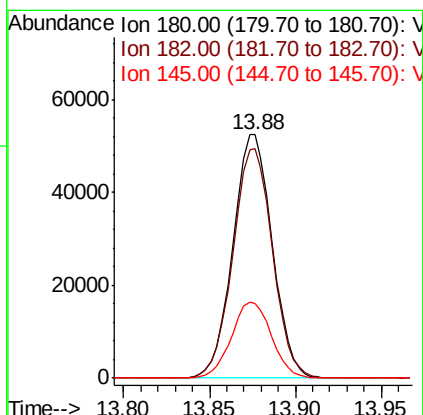
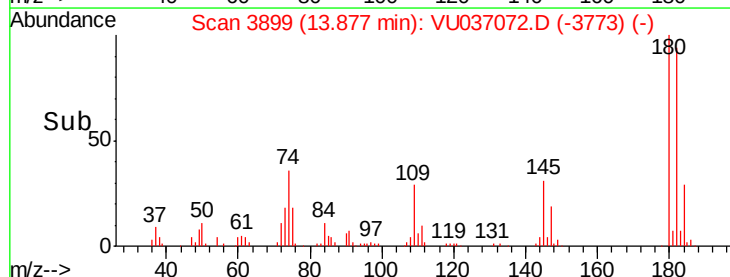
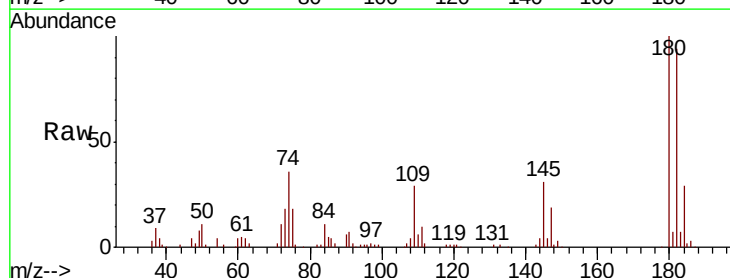
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

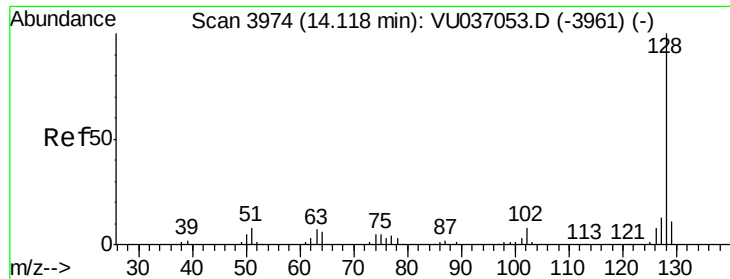
Tot Ion:180	Resp:	119785
Ion	Ratio	Lower Upper
180	100	
182	95.0	76.9 115.3
184	30.2	24.2 36.2
145	32.2	25.3 37.9



#68
 1,2,4-trichlorobenzene
 Concen: 50.966 ug/L
 RT: 13.88 min Scan# 3899
 Delta R.T. 0.01 min
 Lab File: VU037072.D
 Acq: 05 Mar 2020 10:09

Tgt Ion:180	Resp:	83652
Ion	Ratio	Lower Upper
180	100	
182	95.0	75.3 112.9
145	31.5	26.2 39.4





#69

Naphthalene

Concen: 42.018 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

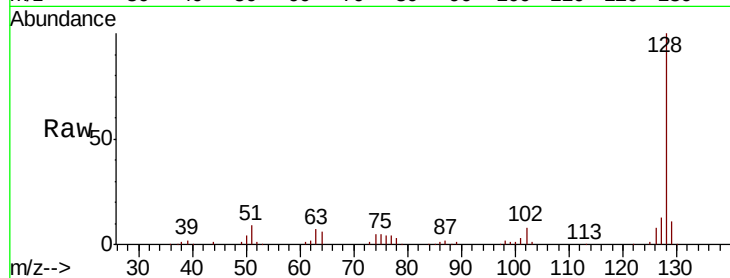
Tot Ion:128 Resp: 121743

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.4

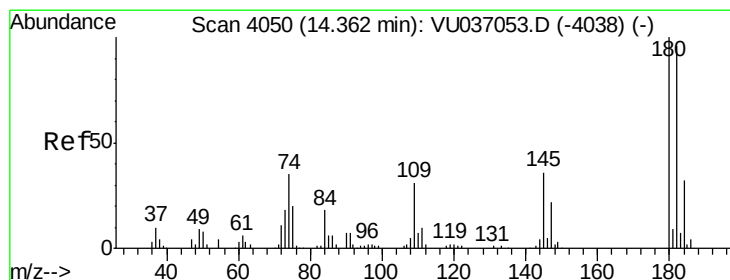
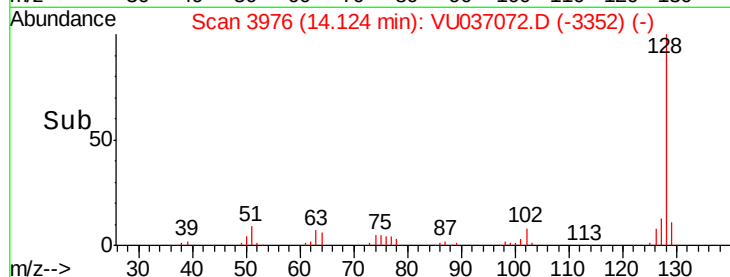
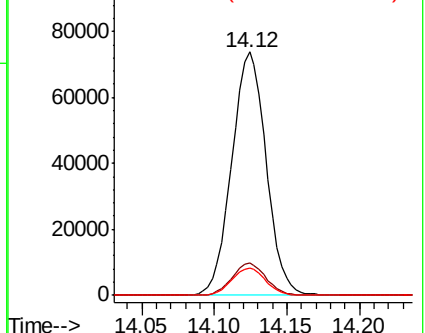
129 11.0 8.6 12.8



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: 50.247 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. 0.01 min

Lab File: VU037072.D

Acq: 05 Mar 2020 10:09

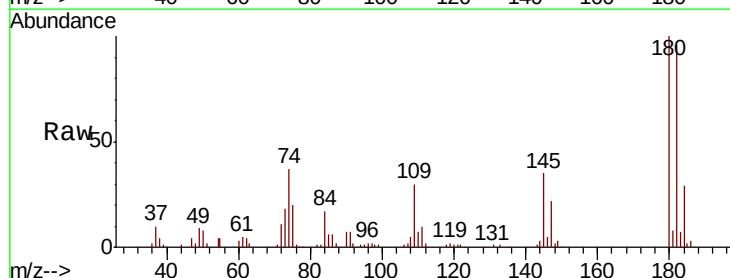
Tgt Ion:180 Resp: 82415

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.6

145 34.7 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

