

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\NOT REVIEWED DATA\
 Data File : VU038336.D
 Acq On : 28 May 2020 10:07
 Operator : JC/MD
 Sample : VSTD05031
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

Quant Time: May 28 11:28:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu May 28 11:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	613693	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	603922	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	306962	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	190334	49.41	ug/L	0.00
7) Chloroethane-d5	1.93	69	150093	50.43	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	391177	49.68	ug/L	0.00
21) 2-Butanone-d5	4.66	46	370624	101.25	ug/L	0.00
24) Chloroform-d	5.10	84	391982	51.81	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	255140	49.21	ug/L	0.00
32) Benzene-d6	5.76	84	786389	50.11	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	243849	50.13	ug/L	0.00
41) Toluene-d8	7.92	98	706206	50.91	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	122049	50.40	ug/L	0.00
47) 2-Hexanone-d5	8.65	63	261363	102.05	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	356332	49.50	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.20	152	274622	48.27	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	238847	51.706	ug/L 100
3) Chloromethane	1.53	50	218164	51.244	ug/L 100
5) Vinyl chloride	1.62	62	243945	51.867	ug/L 100
6) Bromomethane	1.87	94	101808	52.911	ug/L 100
8) Chloroethane	1.95	64	148327	51.612	ug/L 100
9) Trichlorofluoromethane	2.16	101	327185	51.907	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	191009	50.682	ug/L 100
12) 1,1-Dichloroethene	2.61	96	190982	51.328	ug/L 100
13) Acetone	2.66	43	304132	99.998	ug/L 100
14) Carbon disulfide	2.82	76	622546	51.302	ug/L 100
15) Methyl Acetate	2.98	43	284476	52.180	ug/L 100
16) Methylene chloride	3.08	84	222269	51.987	ug/L 100
17) trans-1,2-Dichloroethene	3.39	96	209327	52.375	ug/L 100
18) Methyl tert-butyl Ether	3.40	73	686845	53.592	ug/L 100
19) 1,1-Dichloroethane	3.91	63	397451	52.512	ug/L 100
20) cis-1,2-Dichloroethene	4.71	96	232751	53.161	ug/L 100
22) 2-Butanone	4.75	43	442086	103.677	ug/L 100
23) Bromochloromethane	5.01	128	113644	52.430	ug/L 100
25) Chloroform	5.13	83	401042	51.525	ug/L 100
27) 1,2-Dichloroethane	5.83	62	333193	52.869	ug/L 100
29) Cyclohexane	5.42	56	359748	51.954	ug/L 100
30) 1,1,1-Trichloroethane	5.35	97	343349	52.283	ug/L 100
31) Carbon tetrachloride	5.56	117	286309	52.311	ug/L 100
33) Benzene	5.81	78	900467	53.088	ug/L 100
34) Trichloroethene	6.57	95	224727	51.784	ug/L 100
35) Methylcyclohexane	6.79	83	353362	51.862	ug/L 100
37) 1,2-Dichloropropane	6.82	63	232973	52.961	ug/L 100
38) Bromodichloromethane	7.13	83	299159	53.068	ug/L 100
39) cis-1,3-Dichloropropene	7.63	75	365735	52.248	ug/L 100
40) 4-Methyl-2-pentanone	7.82	43	746307	106.678	ug/L 100

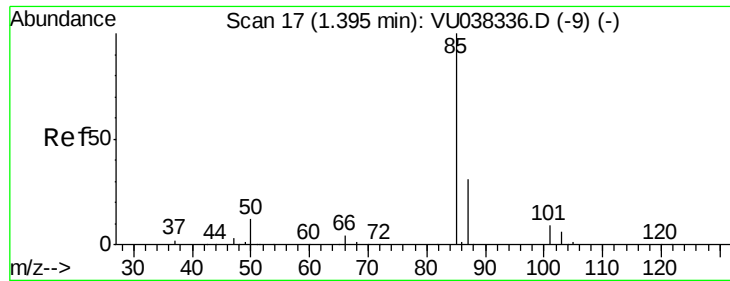
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\NOT REVIEWED DATA\
 Data File : VU038336.D
 Acq On : 28 May 2020 10:07
 Operator : JC/MD
 Sample : VSTD05031
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

Quant Time: May 28 11:28:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu May 28 11:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.99	91	944709	53.052	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	350147	53.438	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	221757	53.122	ug/L	100
46) Tetrachloroethene	8.57	164	164222	51.761	ug/L	100
48) 2-Hexanone	8.71	43	623312	105.525	ug/L	100
49) Dibromochloromethane	8.83	129	223241	52.817	ug/L	100
50) 1,2-Dibromoethane	8.94	107	240231	53.540	ug/L	100
51) Chlorobenzene	9.47	112	590413	51.589	ug/L	100
52) Ethylbenzene	9.59	91	1045813	52.415	ug/L	100
53) m,p-Xylene	9.71	106	406610	53.289	ug/L	100
54) o-xylene	10.12	106	391430	52.764	ug/L	100
55) Styrene	10.13	104	682375	53.519	ug/L	100
56) Isopropylbenzene	10.50	105	1016895	52.454	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	373675	52.308	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	318733	51.815	ug/L	100
61) Bromoform	10.31	173	160797	52.142	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	456331	50.852	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	466555	51.150	ug/L	100
65) 1,2-Dichlorobenzene	12.22	146	455434	51.179	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.01	75	95071	52.186	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	332196	52.016	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	316369	51.650	ug/L	100
69) Naphthalene	14.11	128	1204008	54.899	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	326272	53.321	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 51.706 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

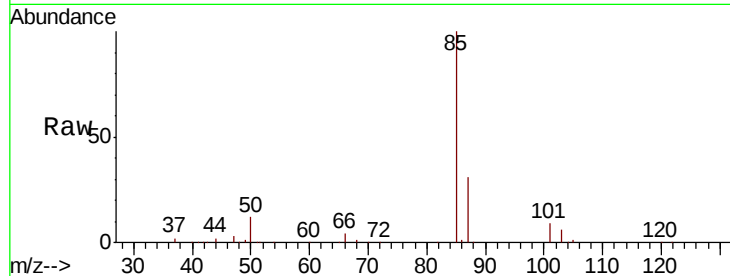
VSTD05031

Tot Ion: 85 Resp: 238847

Ion Ratio Lower Upper

85 100

87 31.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU038336.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038336.D (-9) (-)

1.39

250000

200000

150000

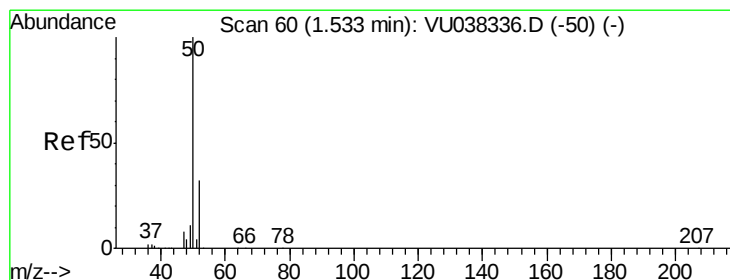
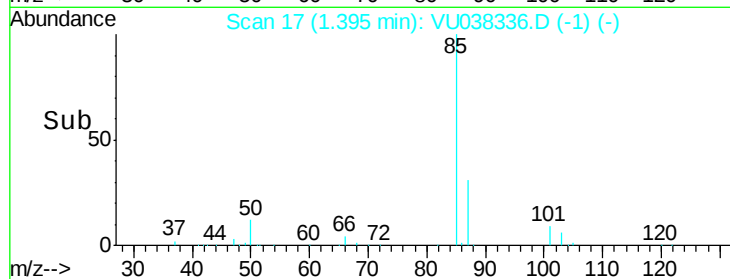
100000

50000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 51.244 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038336.D

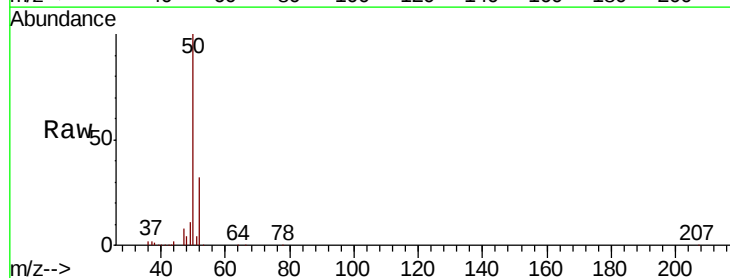
Acq: 28 May 2020 10:07

Tgt Ion: 50 Resp: 218164

Ion Ratio Lower Upper

50 100

52 32.1 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VU038336.D (-50) (-)

Ion 52.00 (51.70 to 52.70): VU038336.D (-50) (-)

1.53

200000

150000

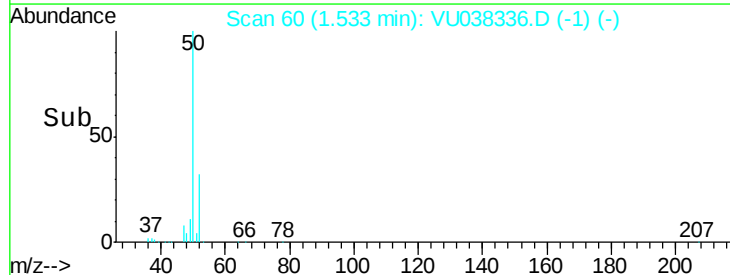
100000

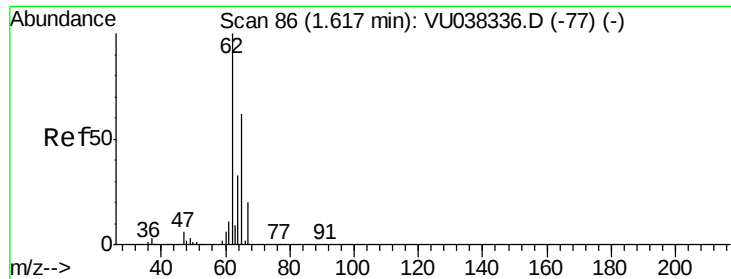
50000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 51.867 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

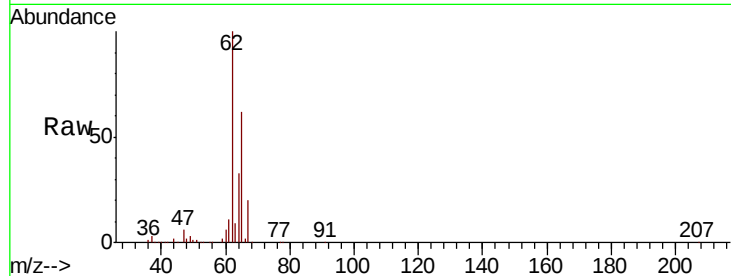
VSTD05031

Tot Ion: 62 Resp: 243945

Ion Ratio Lower Upper

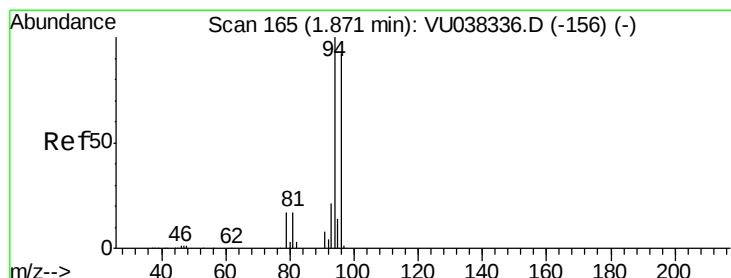
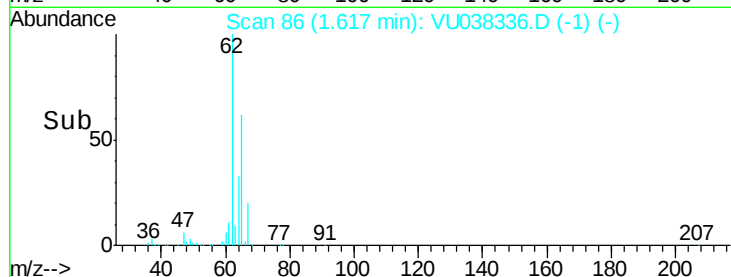
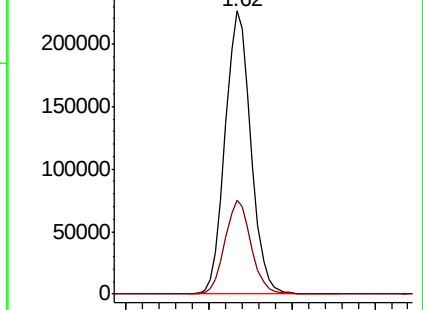
62 100

64 33.1 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU038336.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU038336.D (-77) (-)



#6

Bromomethane

Concen: 52.911 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU038336.D

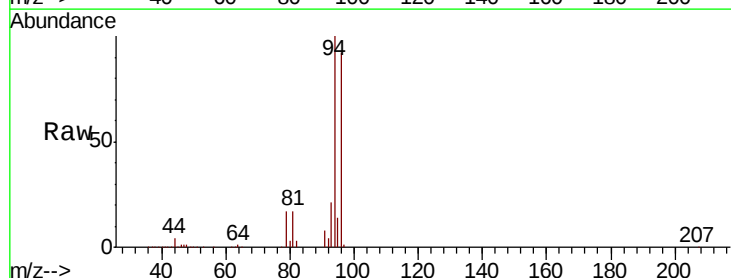
Acq: 28 May 2020 10:07

Tgt Ion: 94 Resp: 101808

Ion Ratio Lower Upper

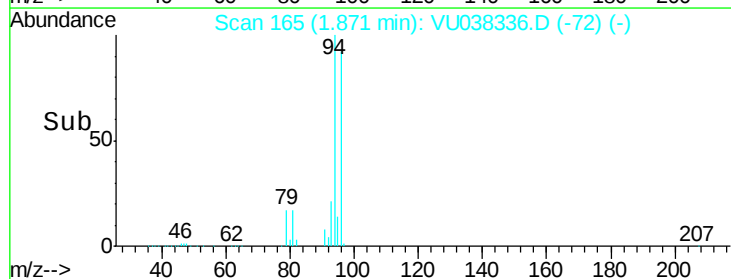
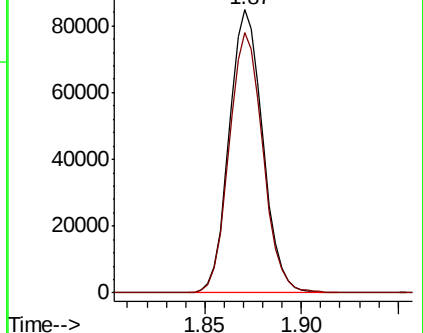
94 100

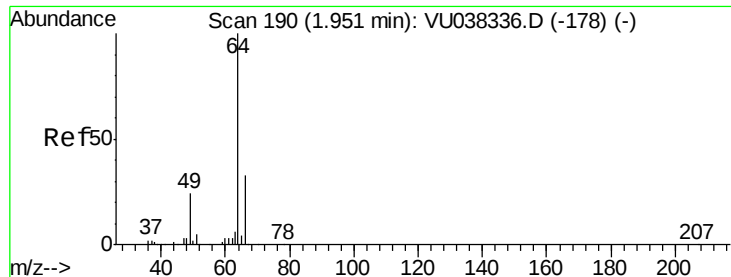
96 91.9 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU038336.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU038336.D (-156) (-)





#8

Chloroethane

Concen: 51.612 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

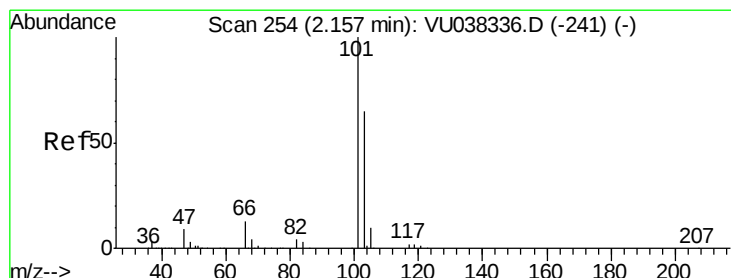
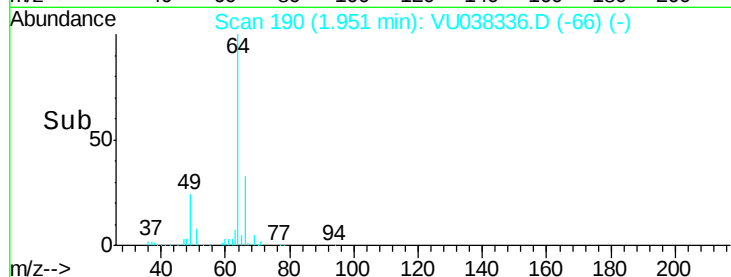
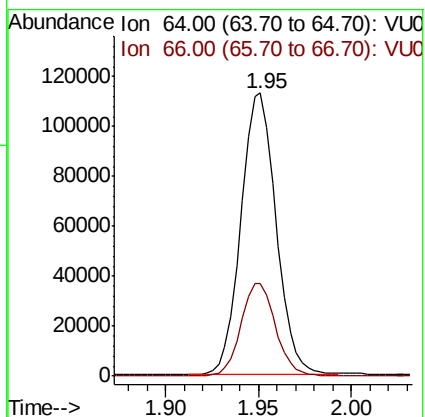
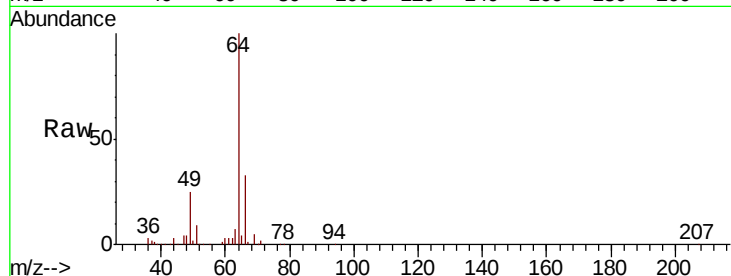
VSTD05031

Tot Ion: 64 Resp: 148327

Ion Ratio Lower Upper

64 100

66 32.9 23.0 42.8



#9

Trichlorofluoromethane

Concen: 51.907 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU038336.D

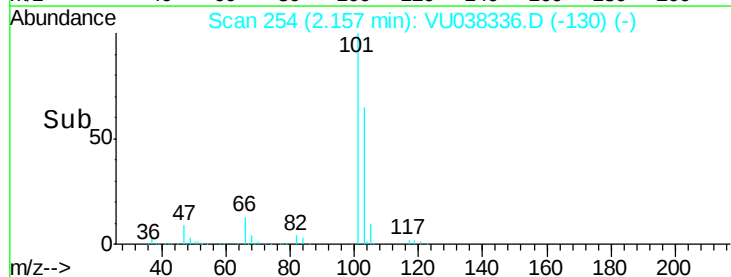
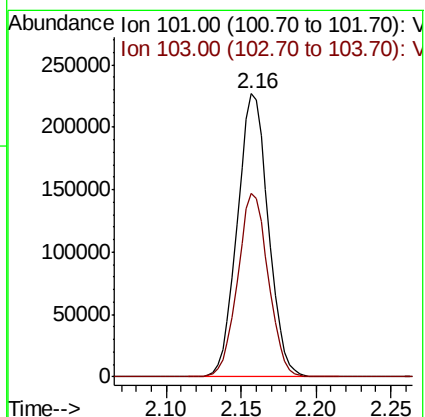
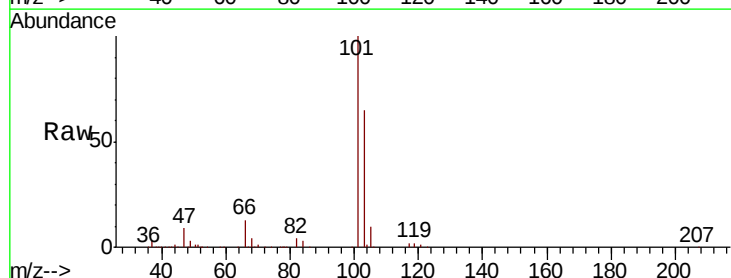
Acq: 28 May 2020 10:07

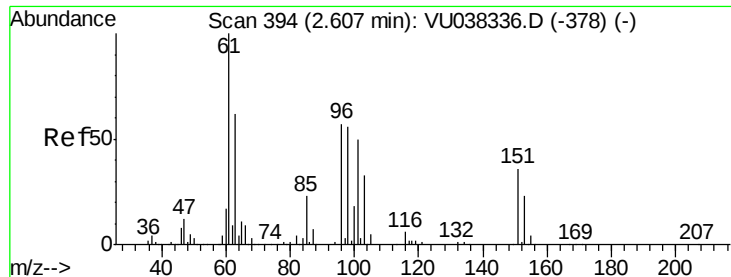
Tgt Ion:101 Resp: 327185

Ion Ratio Lower Upper

101 100

103 64.2 51.4 77.0





#10

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

Concen: 50.682 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

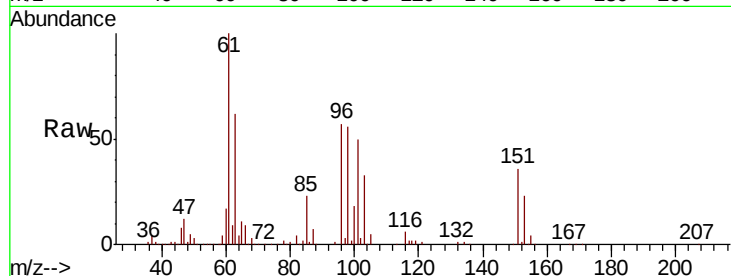
Tot Ion:101 Resp: 191009

Ion Ratio Lower Upper

101 100

85 44.4 35.5 53.3

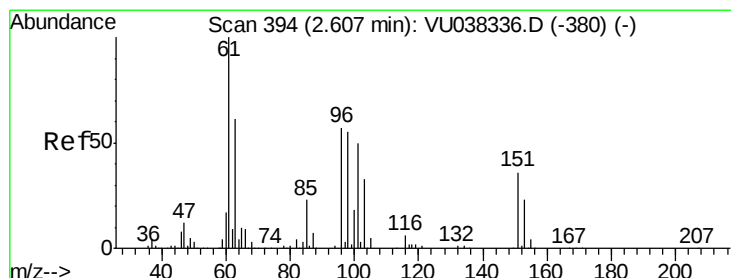
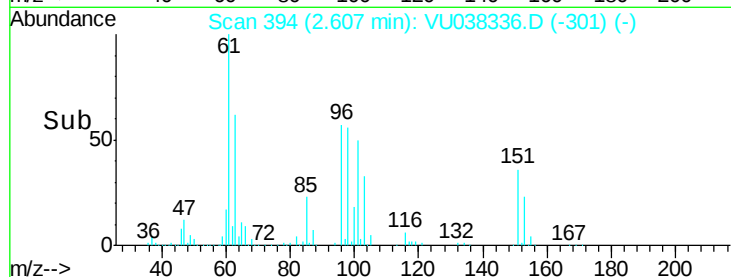
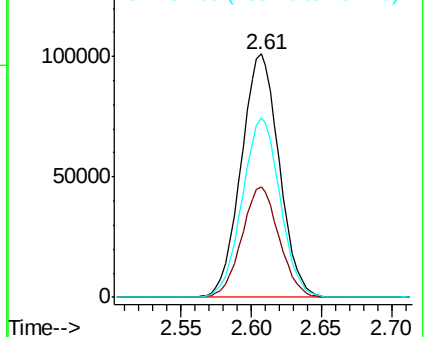
151 73.0 58.4 87.6



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: 51.328 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

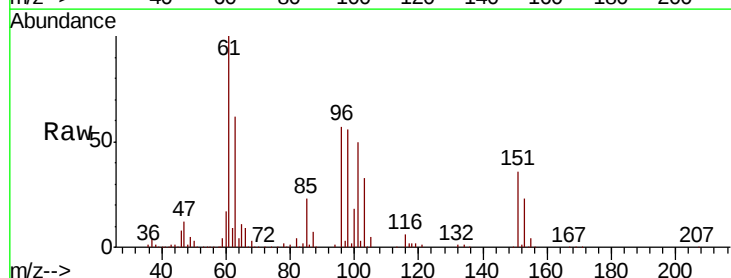
Tgt Ion: 96 Resp: 190982

Ion Ratio Lower Upper

96 100

61 176.4 123.5 229.3

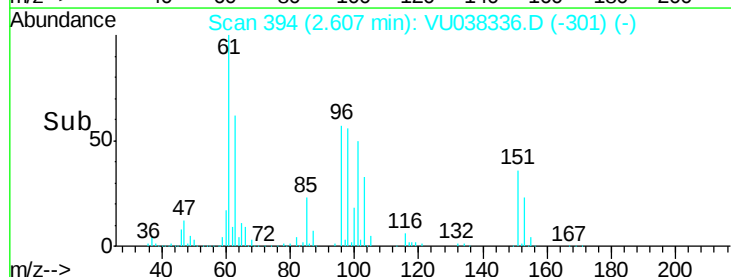
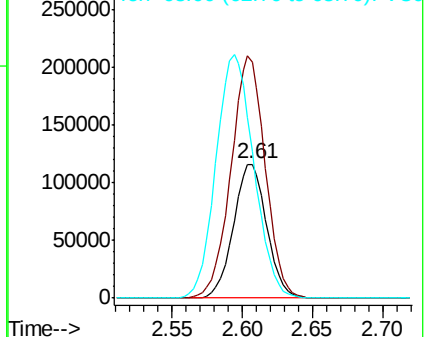
63 109.4 76.6 142.2

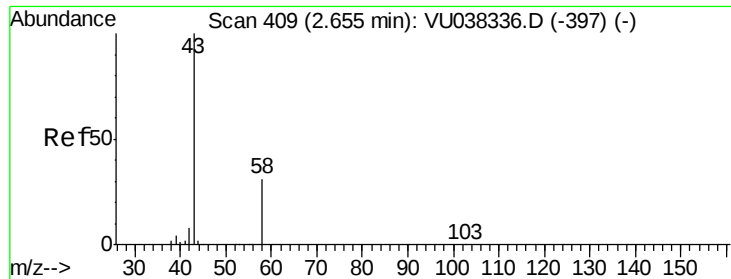


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 99.998 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

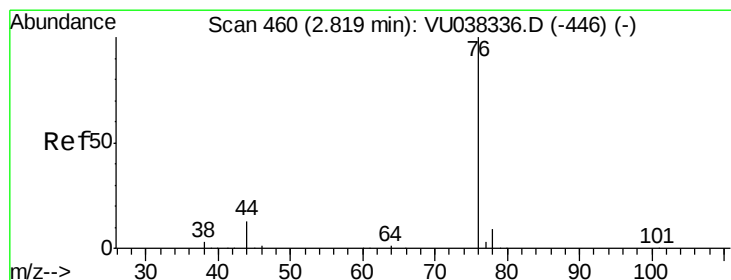
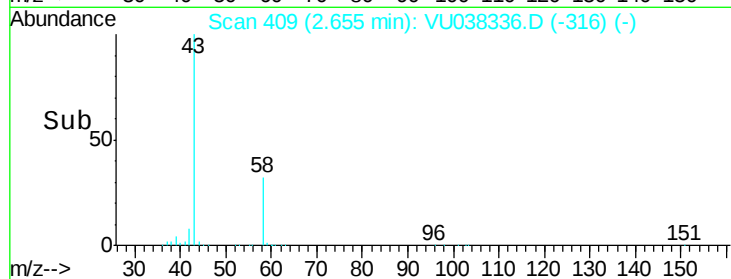
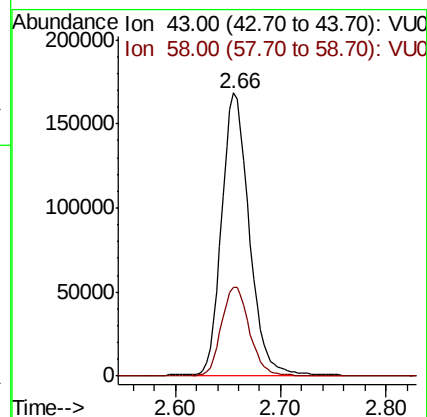
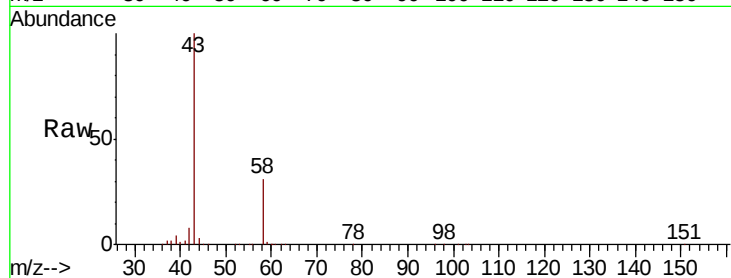
VSTD05031

Tot Ion: 43 Resp: 304132

Ion Ratio Lower Upper

43 100

58 31.7 0.0 63.4



#14

Carbon disulfide

Concen: 51.302 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038336.D

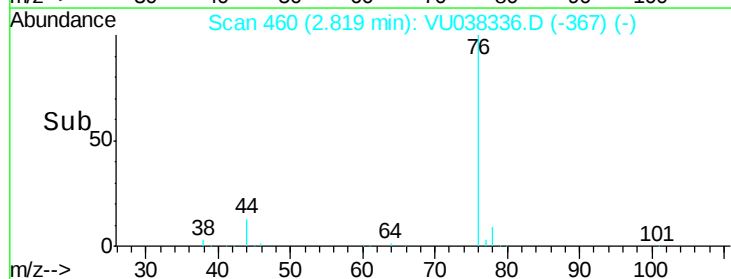
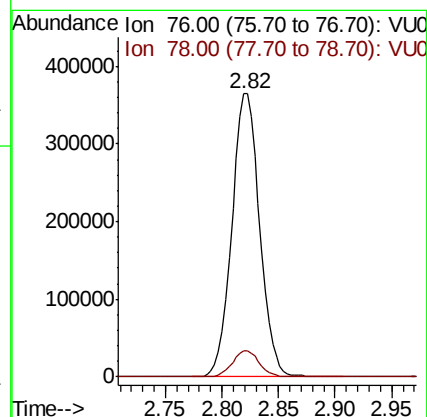
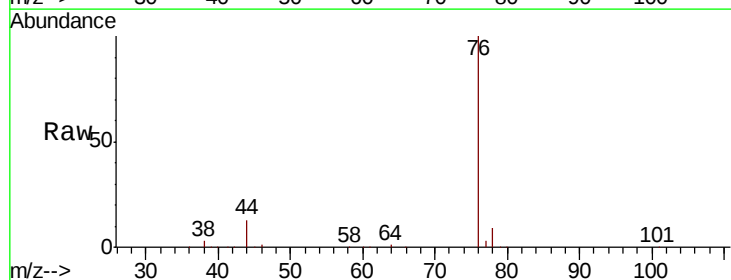
Acq: 28 May 2020 10:07

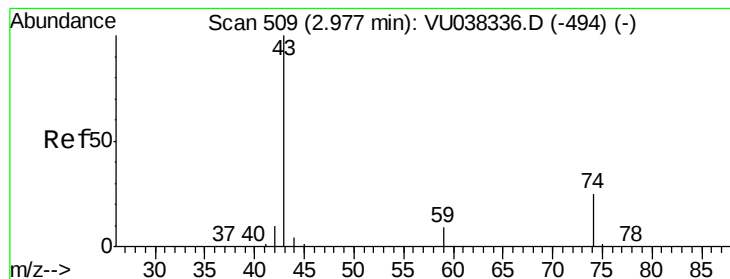
Tgt Ion: 76 Resp: 622546

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methvl Acetate

Concen: 52.180 ug/L

RT: 2.98 min Scan# 509

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

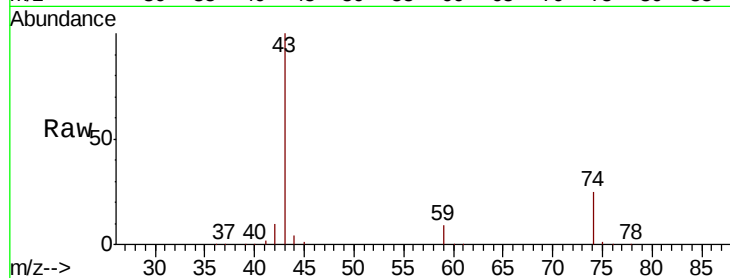
VSTD05031

Tot Ion: 43 Resp: 284476

Ion Ratio Lower Upper

43 100

74 23.9 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VU038336.D (-494) (-)

Ion 74.00 (73.70 to 74.70): VU038336.D (-494) (-)

2.98

150000

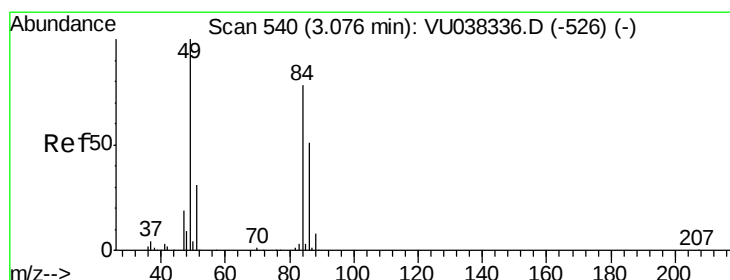
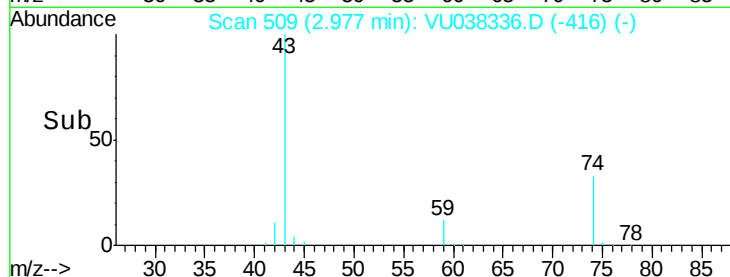
100000

50000

0

2.90 2.95 3.00 3.05

Time-->



#16

Methylene chloride

Concen: 51.987 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

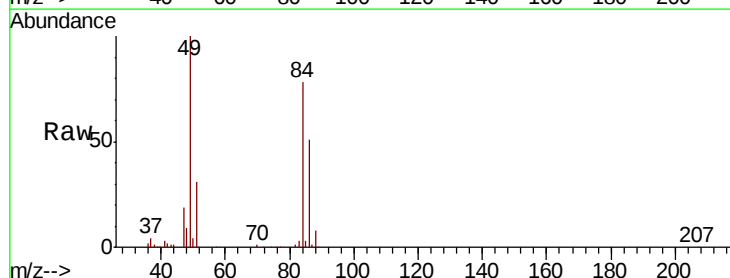
Tgt Ion: 84 Resp: 222269

Ion Ratio Lower Upper

84 100

86 65.9 46.1 85.7

49 128.6 90.0 167.2



Abundance Ion 84.00 (83.70 to 84.70): VU038336.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU038336.D (-526) (-)

Ion 49.00 (48.70 to 49.70): VU038336.D (-526) (-)

3.08

200000

150000

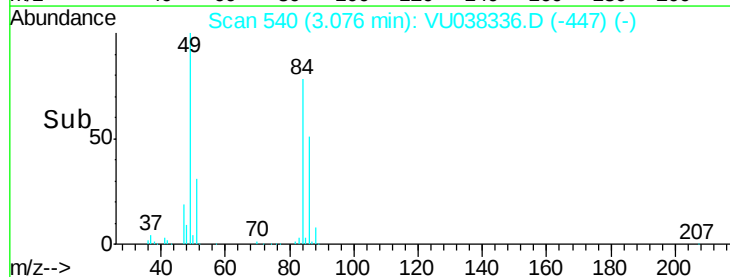
100000

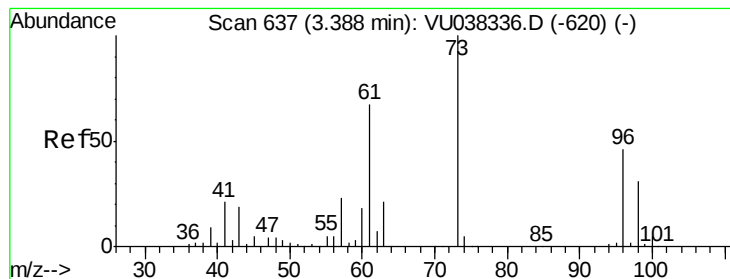
50000

0

3.00 3.05 3.10 3.15 3.20

Time-->





#17

trans-1,2-Dichloroethene

Concen: 52.375 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

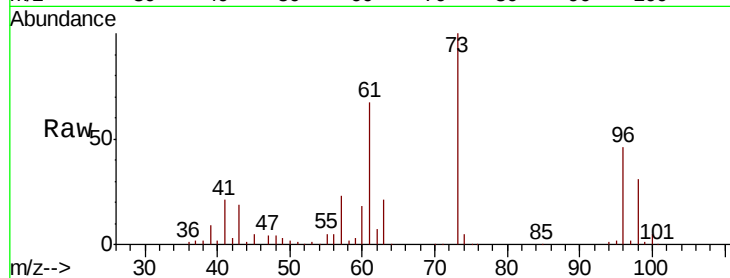
Tot Ion: 96 Resp: 209327

Ion Ratio Lower Upper

96 100

61 143.4 100.4 186.4

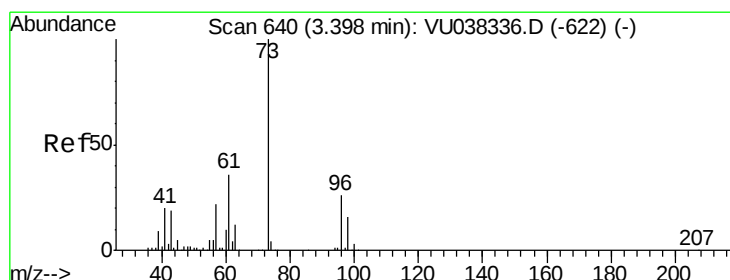
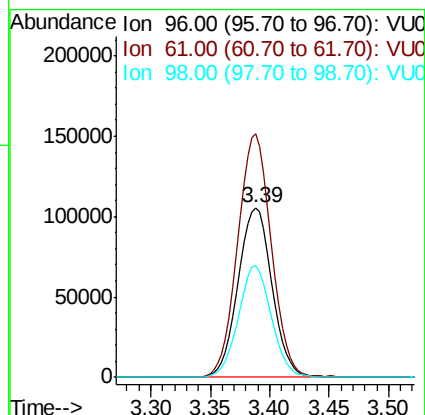
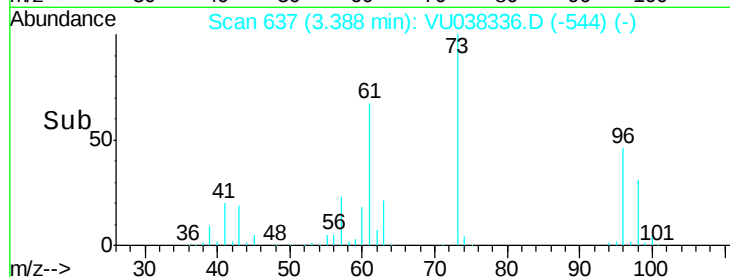
98 65.8 46.1 85.5



Abundance Ion 96.00 (95.70 to 96.70): VU038336.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU038336.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU038336.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 53.592 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

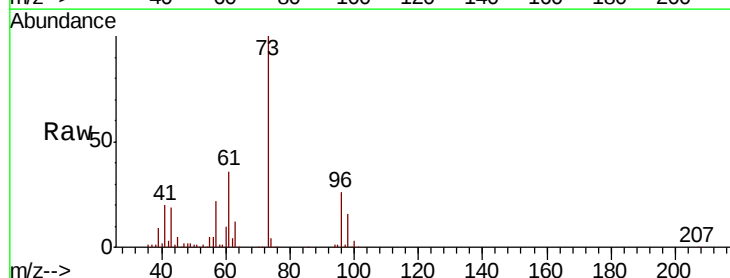
Tgt Ion: 73 Resp: 686845

Ion Ratio Lower Upper

73 100

43 19.6 15.7 23.5

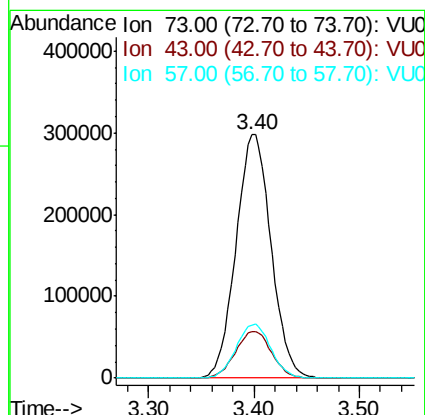
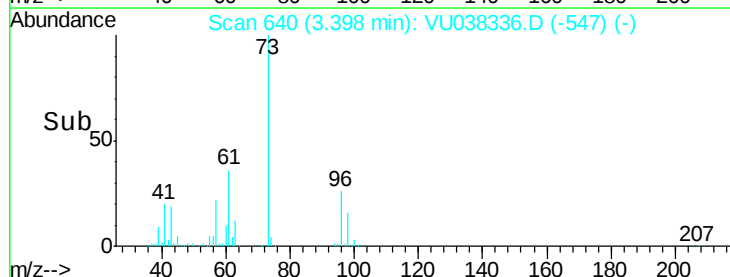
57 22.1 17.7 26.5

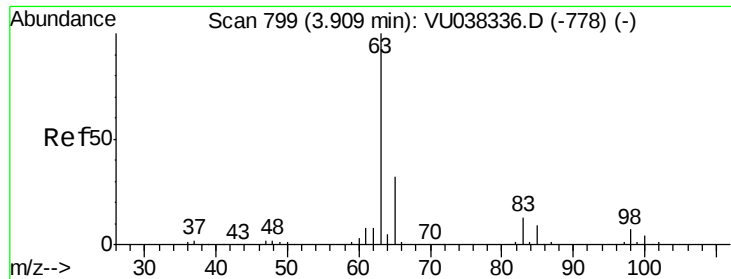


Abundance Ion 73.00 (72.70 to 73.70): VU038336.D (-547) (-)

Ion 43.00 (42.70 to 43.70): VU038336.D (-547) (-)

Ion 57.00 (56.70 to 57.70): VU038336.D (-547) (-)





#19

1,1-Dichloroethane

Concen: 52.512 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

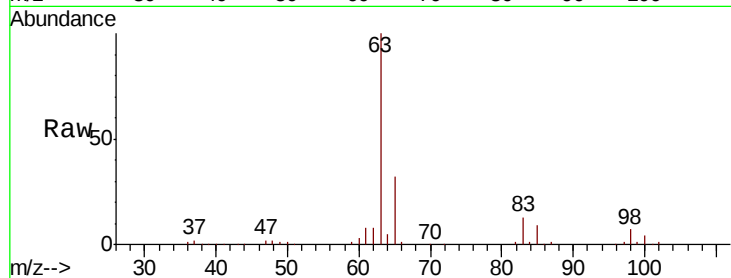
Tot Ion: 63 Resp: 397451

Ion Ratio Lower Upper

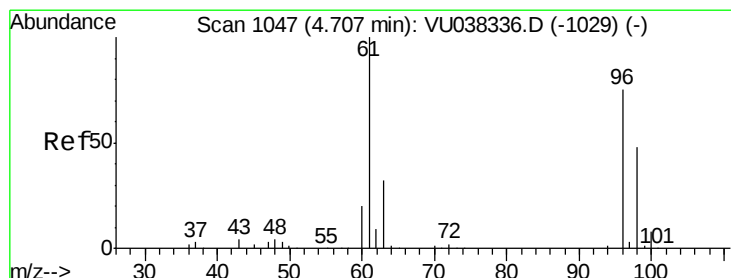
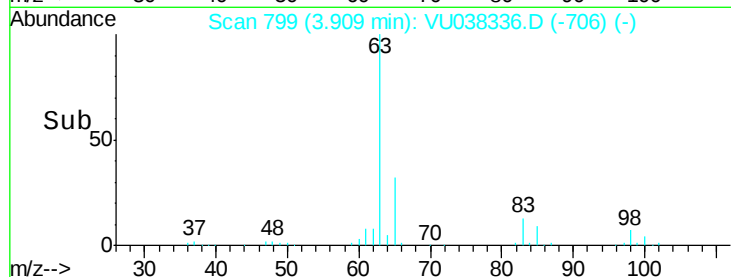
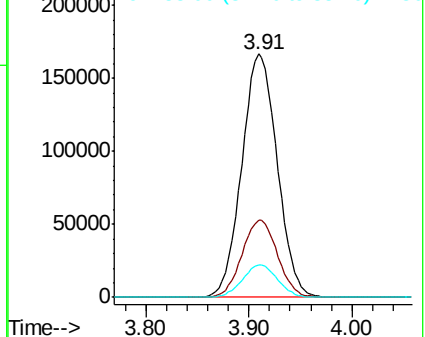
63 100

65 31.7 22.2 41.2

83 13.4 9.4 17.4



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 53.161 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

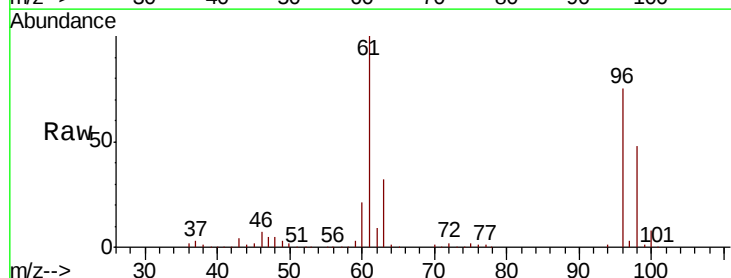
Tgt Ion: 96 Resp: 232751

Ion Ratio Lower Upper

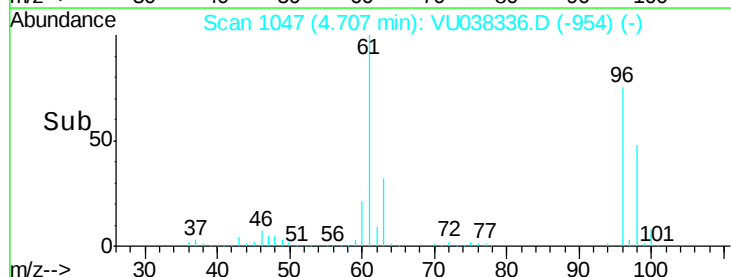
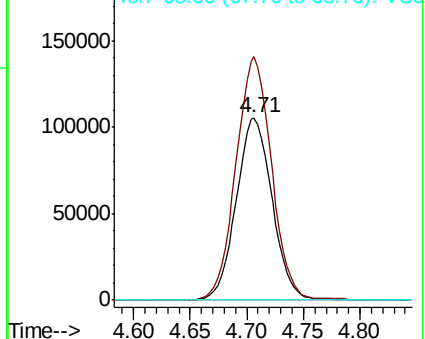
96 100

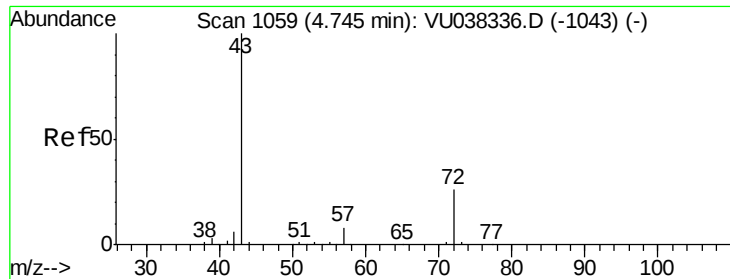
61 133.4 93.4 173.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 103.677 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

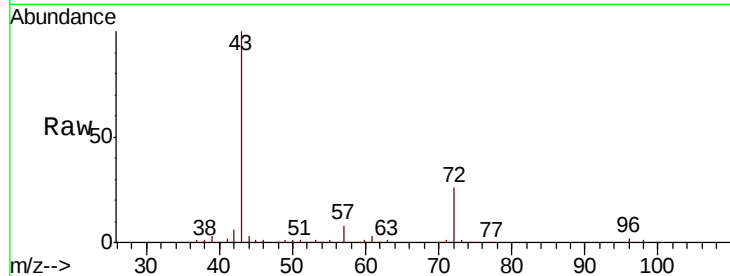
VSTD05031

Tot Ion: 43 Resp: 442086

Ion Ratio Lower Upper

43 100

72 27.5 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VU038336.D (-1043) (-)

Ion 72.00 (71.70 to 72.70): VU038336.D (-1043) (-)

4.75

200000

150000

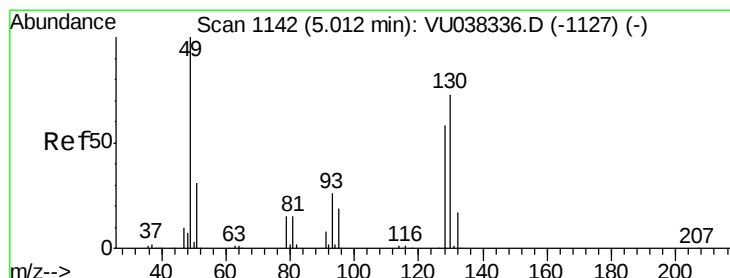
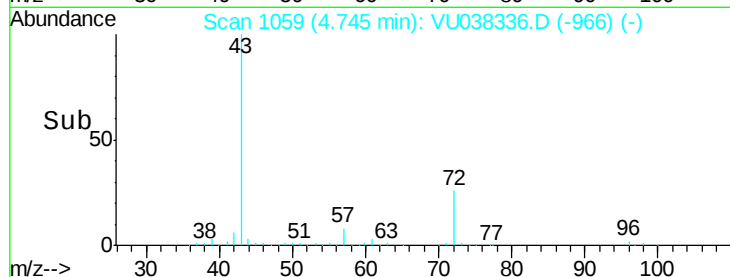
100000

50000

0

4.70 4.80

Time-->



#23

Bromochloromethane

Concen: 52.430 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Tgt Ion: 128 Resp: 113644

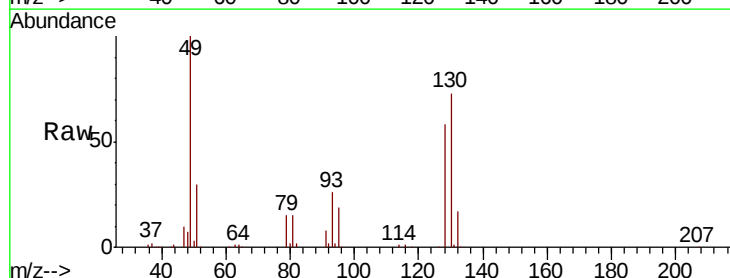
Ion Ratio Lower Upper

128 100

49 171.6 120.1 223.1

130 125.8 88.1 163.5

51 52.3 41.8 62.8



Abundance Ion 128.00 (127.70 to 128.70): VU038336.D (-1127) (-)

Ion 49.00 (48.70 to 49.70): VU038336.D (-1127) (-)

Ion 130.00 (129.70 to 130.70): VU038336.D (-1127) (-)

Ion 51.00 (50.70 to 51.70): VU038336.D (-1127) (-)

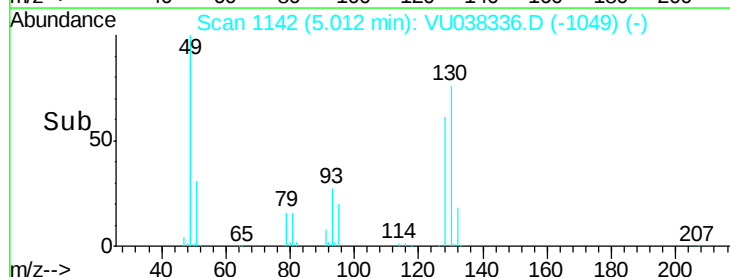
100000

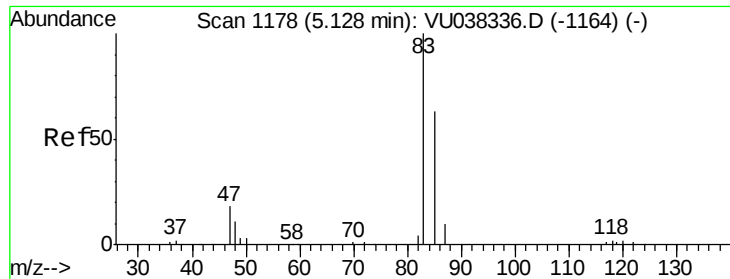
50000

0

4.95 5.00 5.05 5.10

Time-->

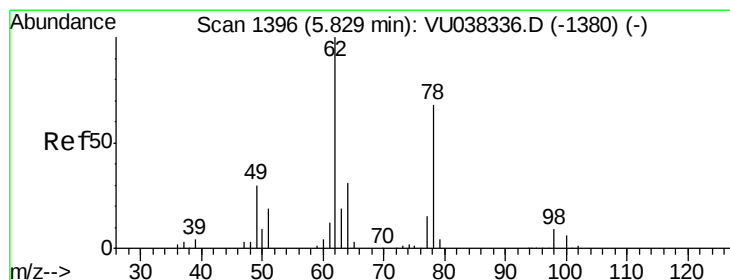
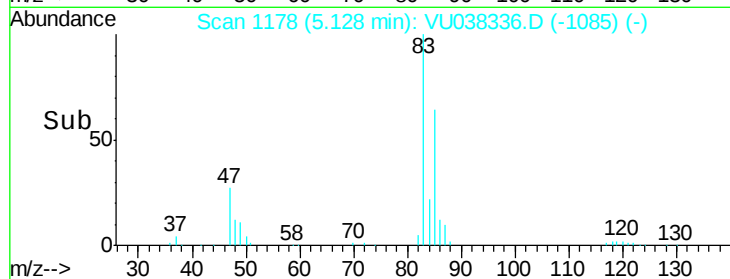
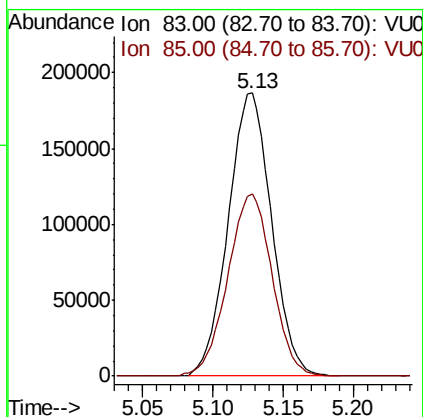
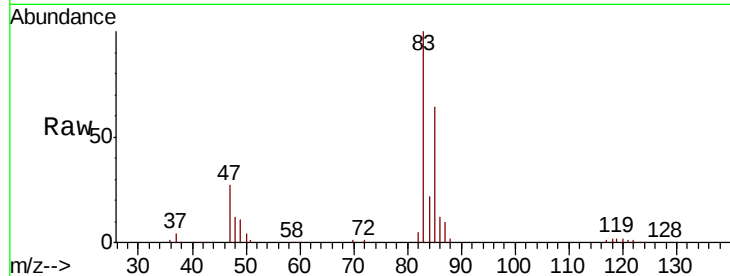




#25
Chloroform
Concen: 51.525 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038336.D
Acq: 28 May 2020 10:07

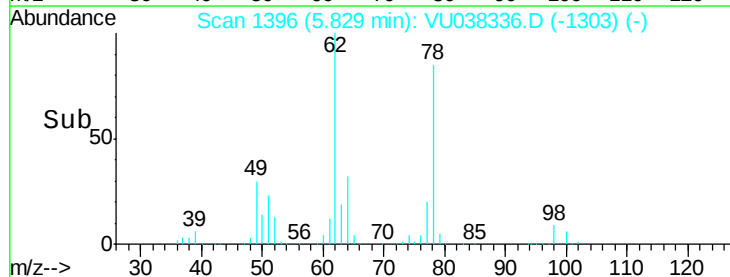
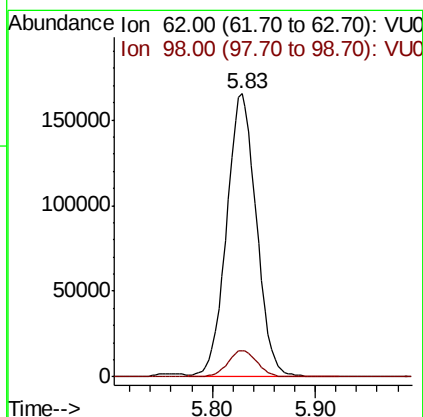
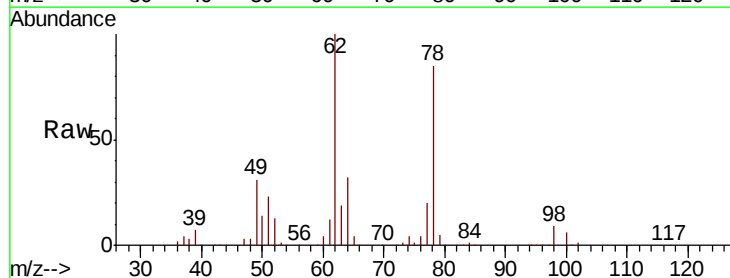
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

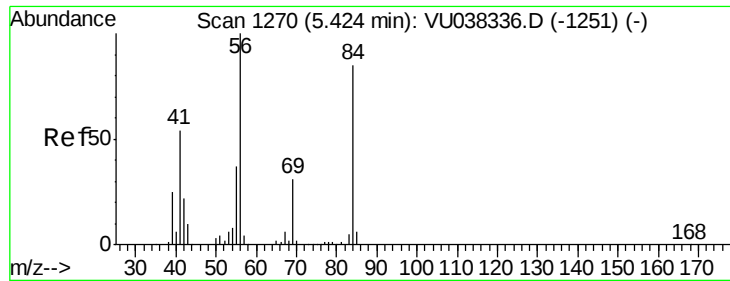
Tot Ion: 83 Resp: 401042
Ion Ratio Lower Upper
83 100
85 64.2 44.9 83.5



#27
1,2-Dichloroethane
Concen: 52.869 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038336.D
Acq: 28 May 2020 10:07

Tgt Ion: 62 Resp: 333193
Ion Ratio Lower Upper
62 100
98 9.4 7.5 11.3

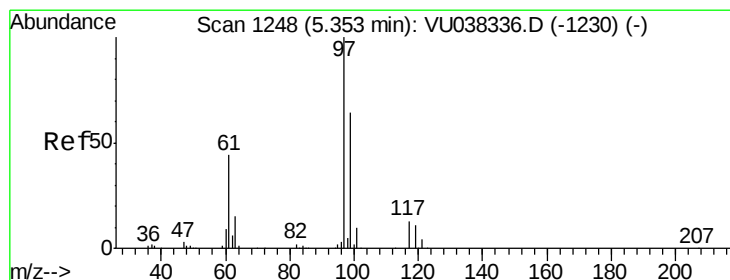
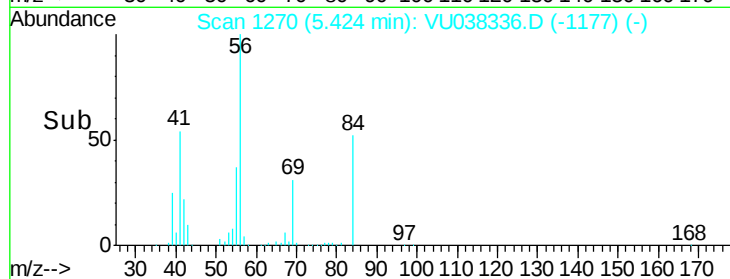
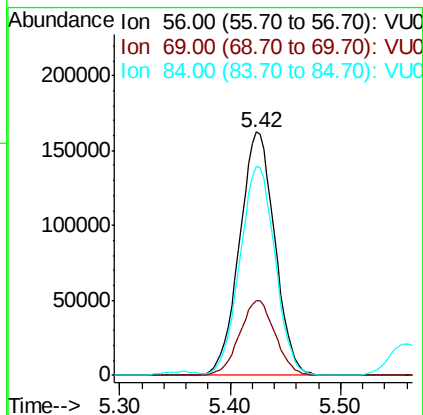
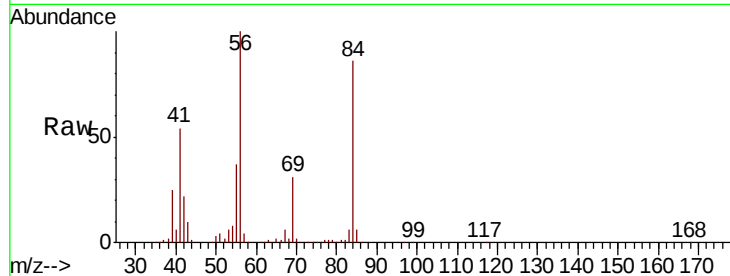




#29
Cyclohexane
Concen: 51.954 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU038336.D
Acq: 28 May 2020 10:07

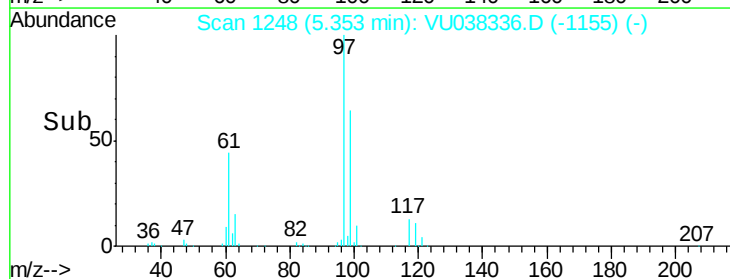
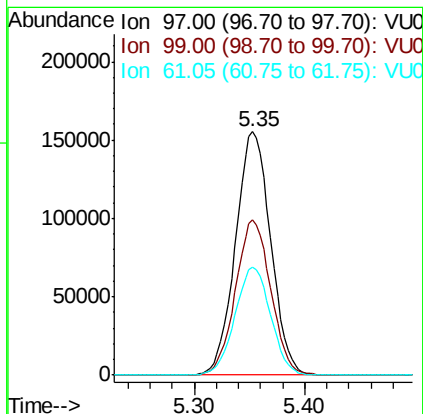
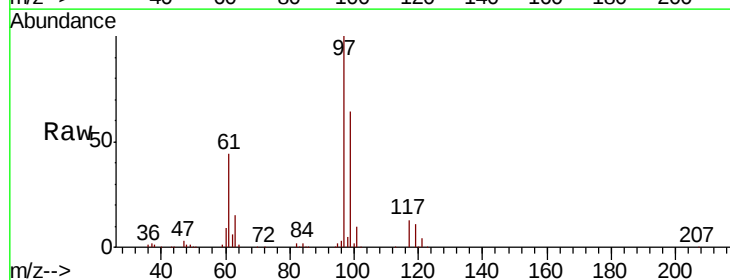
Instrument :
MSVOA_U
ClientSampleId :
VSTD05031

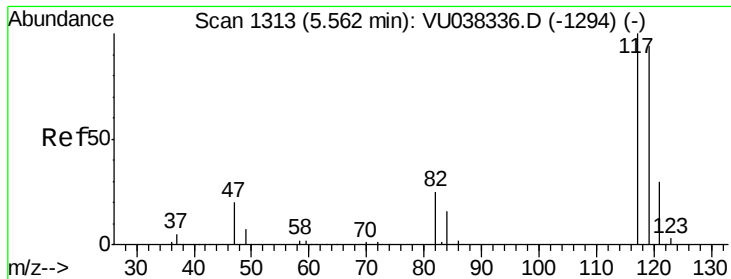
Tot Ion: 56 Resp: 359748
Ion Ratio Lower Upper
56 100
69 30.9 24.7 37.1
84 85.3 68.2 102.4



#30
1,1,1-Trichloroethane
Concen: 52.283 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038336.D
Acq: 28 May 2020 10:07

Tgt Ion: 97 Resp: 343349
Ion Ratio Lower Upper
97 100
99 64.0 51.2 76.8
61 44.9 35.9 53.9





#31

Carbon tetrachloride

Concen: 52.311 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

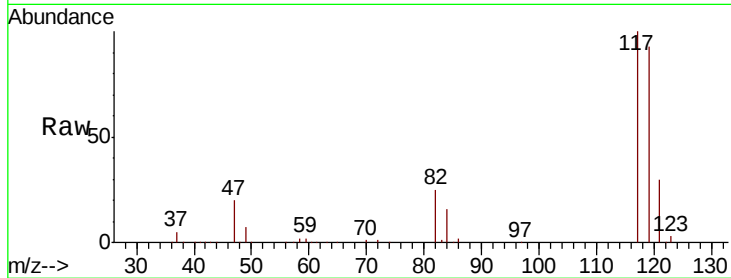
VSTD05031

Tot Ion:117 Resp: 286309

Ion Ratio Lower Upper

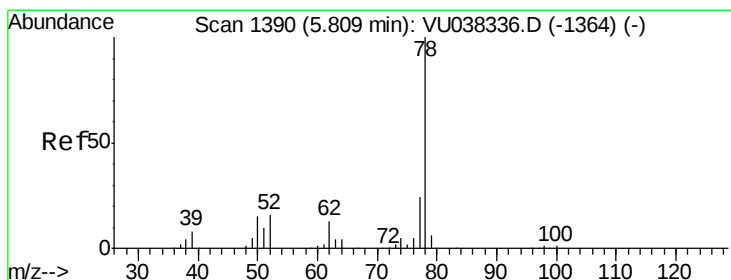
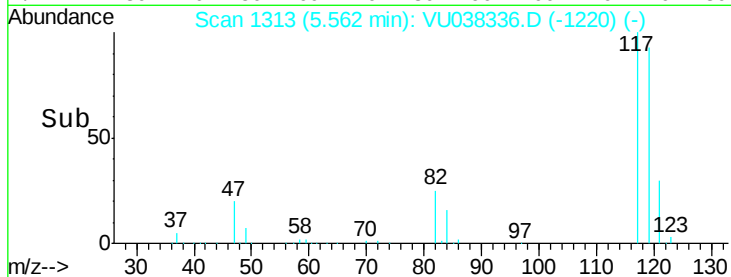
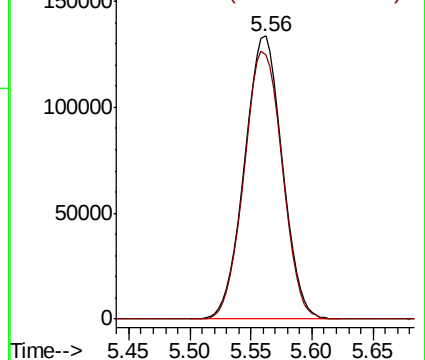
117 100

119 95.7 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.088 ug/L

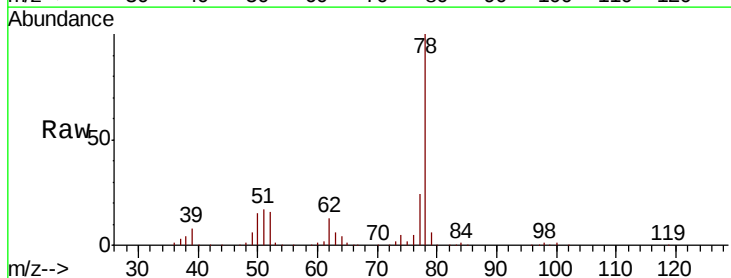
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

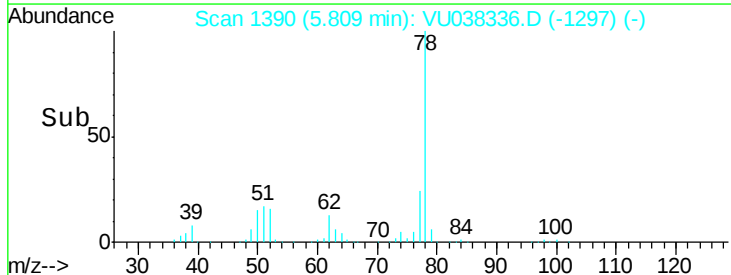
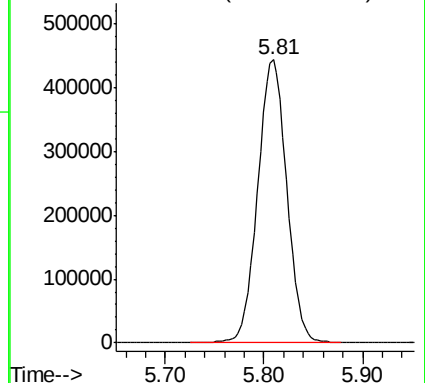
Lab File: VU038336.D

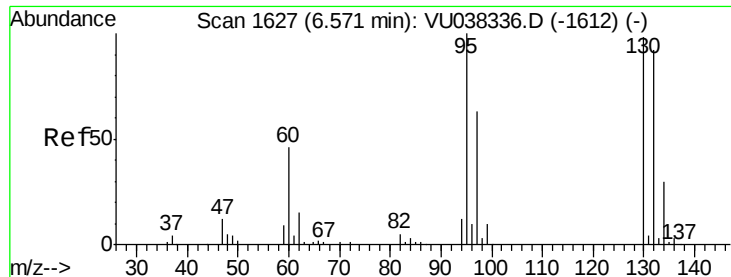
Acq: 28 May 2020 10:07

Tgt Ion: 78 Resp: 900467



Abundance Ion 78.00 (77.70 to 78.70): VU0

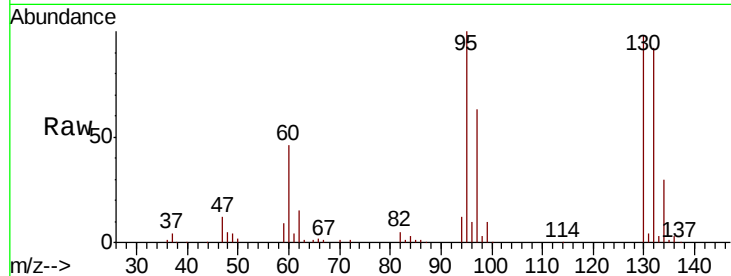




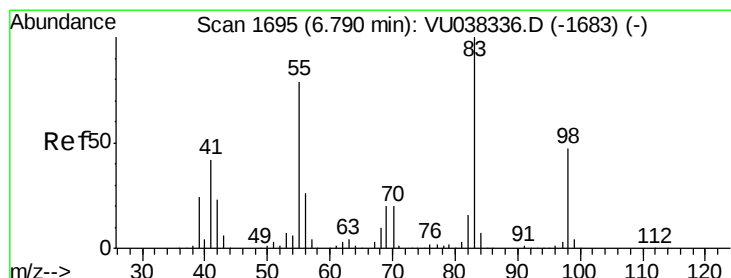
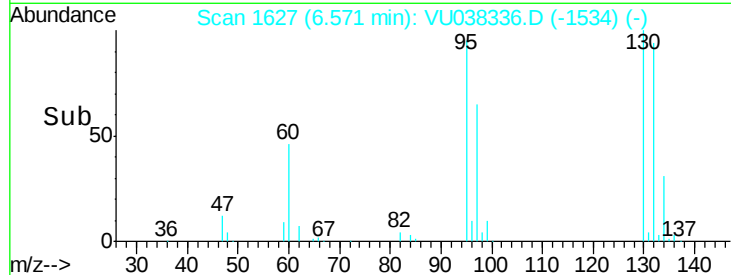
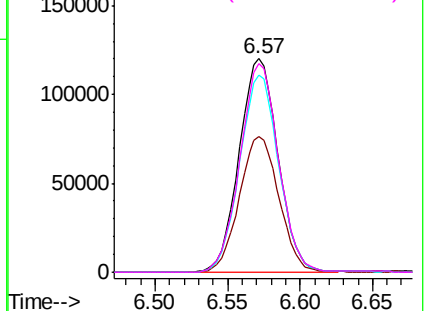
#34
 Trichloroethene
 Concen: 51.784 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

Tot Ion: 95 Resp: 224727
 Ion Ratio Lower Upper
 95 100
 97 63.3 44.3 82.3
 132 92.4 64.7 120.1
 130 97.8 68.5 127.1

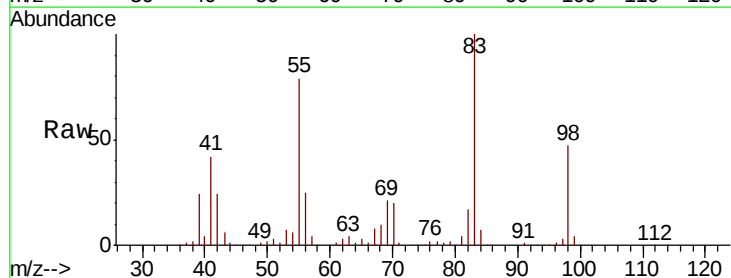


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

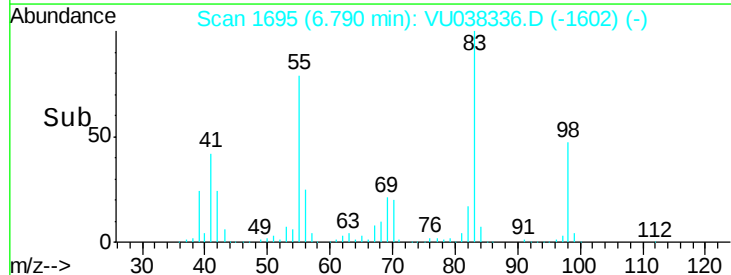
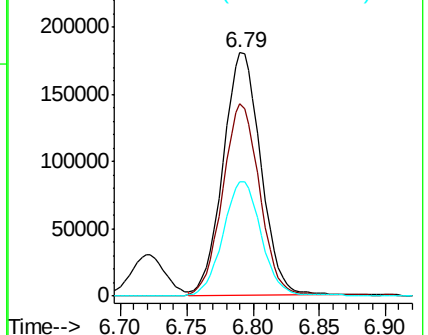


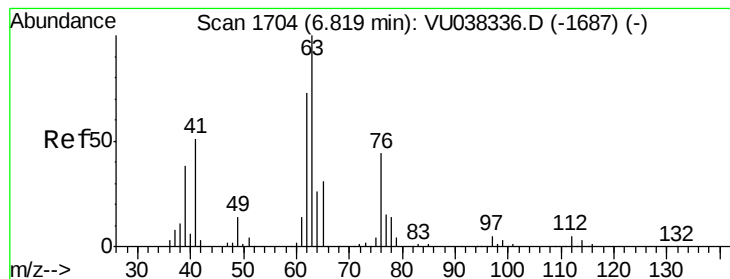
#35
 Methylcyclohexane
 Concen: 51.862 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

Tgt Ion: 83 Resp: 353362
 Ion Ratio Lower Upper
 83 100
 55 78.7 63.0 94.4
 98 48.2 38.6 57.8



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: 52.961 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

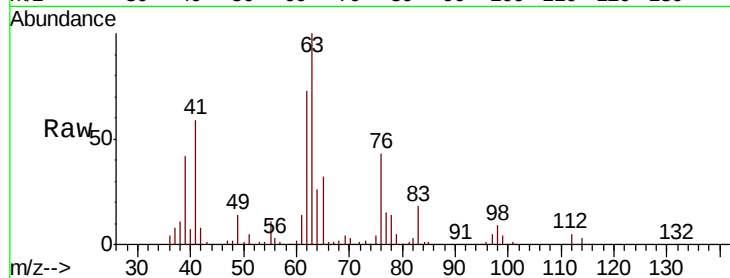
VSTD05031

Tot Ion: 63 Resp: 232973

Ion Ratio Lower Upper

63 100

112 4.5 3.6 5.4



Abundance Ion 63.00 (62.70 to 63.70): VU038336.D (-1687) (-)

Ion 112.00 (111.70 to 112.70): VU038336.D (-1687) (-)

6.82

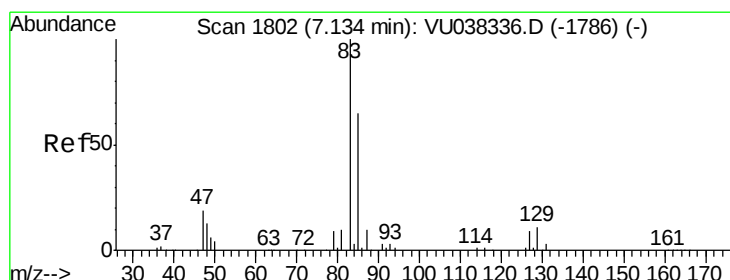
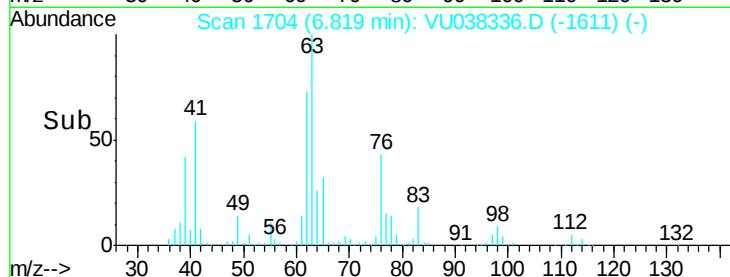
100000

50000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 53.068 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

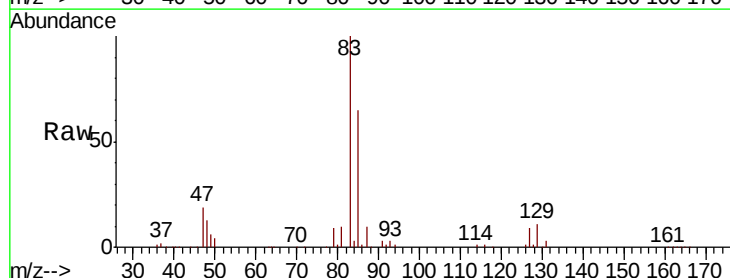
Tgt Ion: 83 Resp: 299159

Ion Ratio Lower Upper

83 100

85 65.0 45.5 84.5

127 8.7 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU038336.D (-1786) (-)

Ion 85.00 (84.70 to 85.70): VU038336.D (-1786) (-)

Ion 127.00 (126.70 to 127.70): VU038336.D (-1786) (-)

7.13

200000

150000

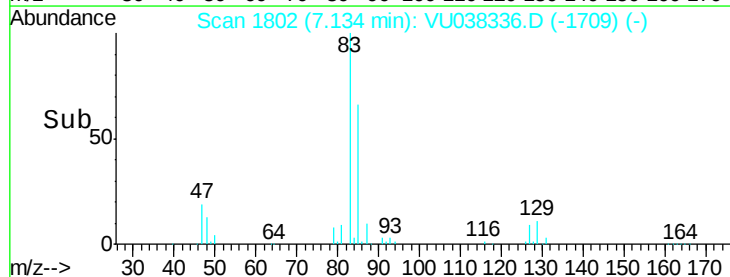
100000

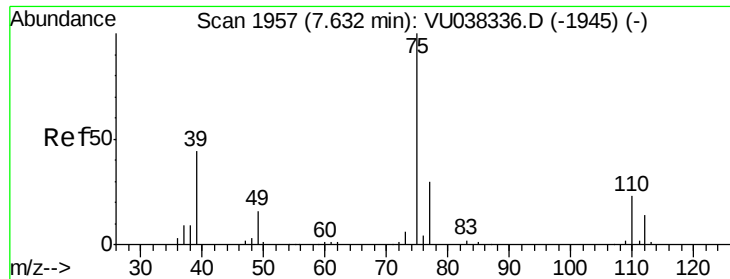
50000

0

7.05 7.10 7.15 7.20

Time-->

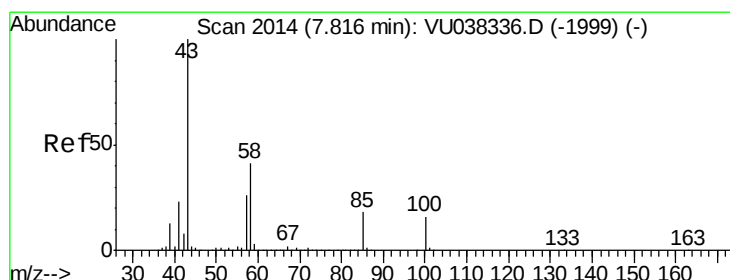
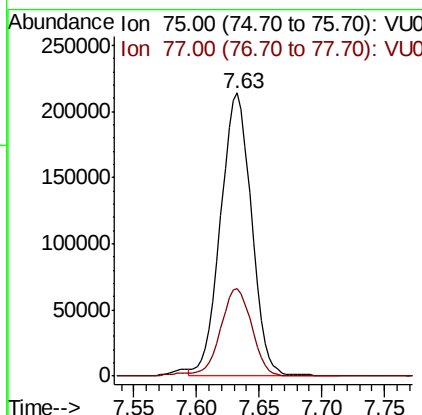
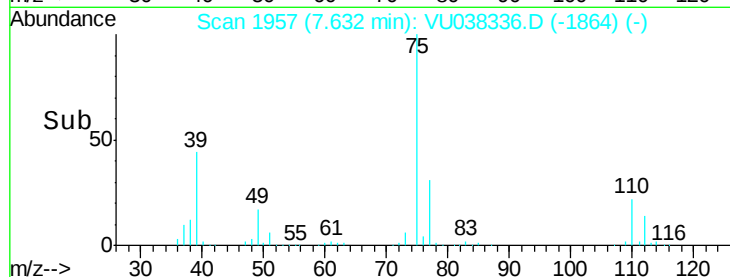
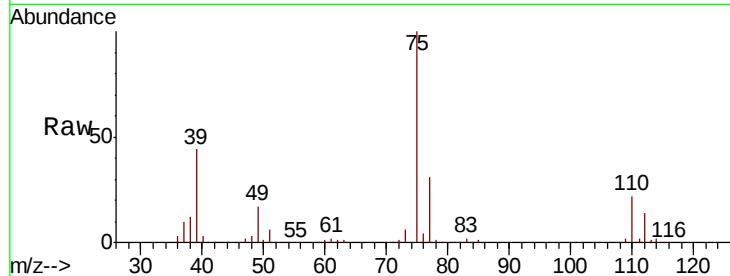




#39
 cis-1,3-Dichloropropene
 Concen: 52.248 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

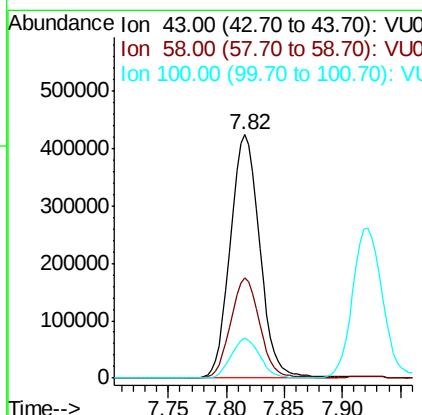
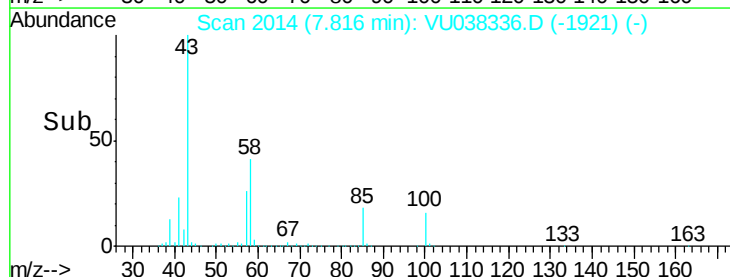
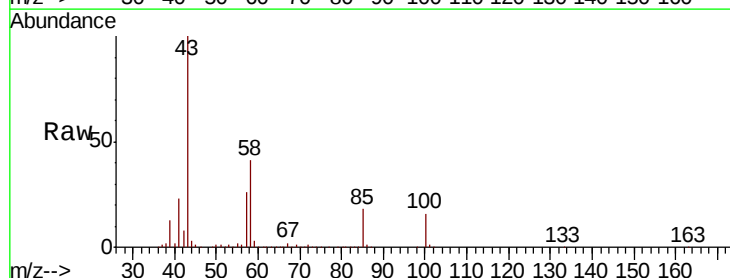
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

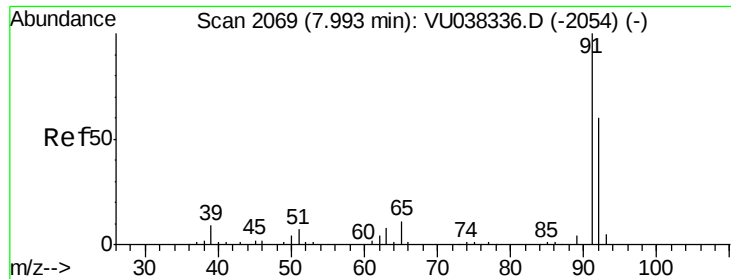
Tot Ion: 75 Resp: 365735
 Ion Ratio Lower Upper
 75 100
 77 30.8 21.6 40.0



#40
 4-Methyl-2-pentanone
 Concen: 106.678 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

Tgt Ion: 43 Resp: 746307
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.6 48.8
 100 16.1 12.9 19.3





#42

Toluene

Concen: 53.052 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

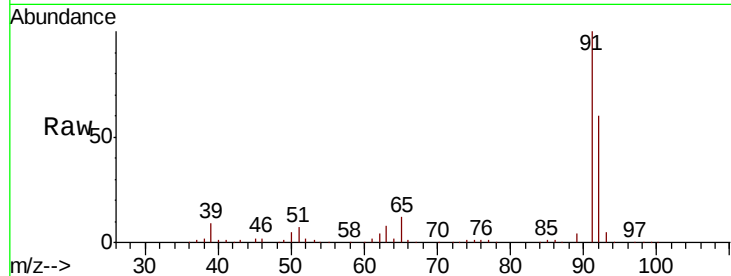
VSTD05031

Tot Ion: 91 Resp: 944709

Ion Ratio Lower Upper

91 100

92 60.0 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.99

600000

500000

400000

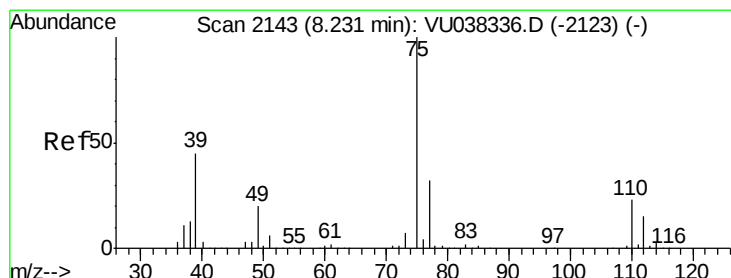
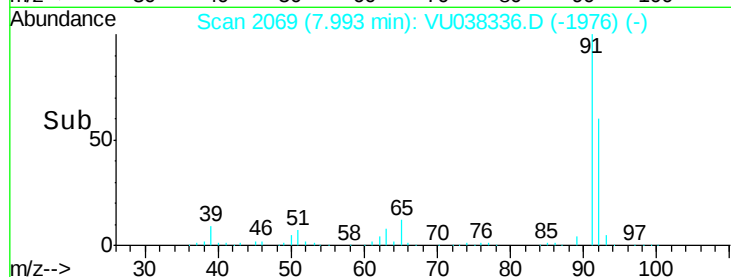
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.438 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VU038336.D

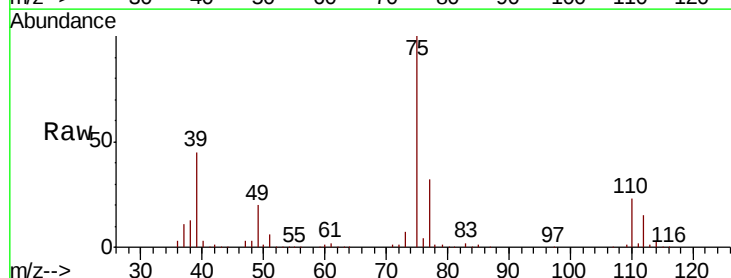
Acq: 28 May 2020 10:07

Tgt Ion: 75 Resp: 350147

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

8.23

250000

200000

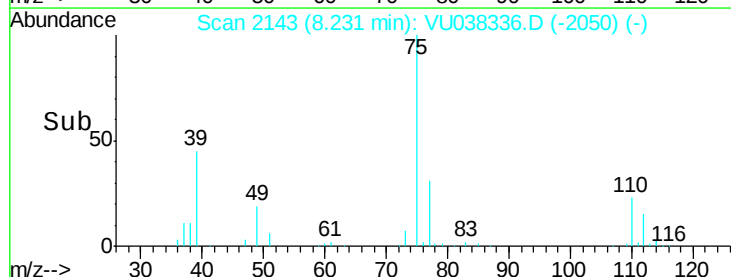
150000

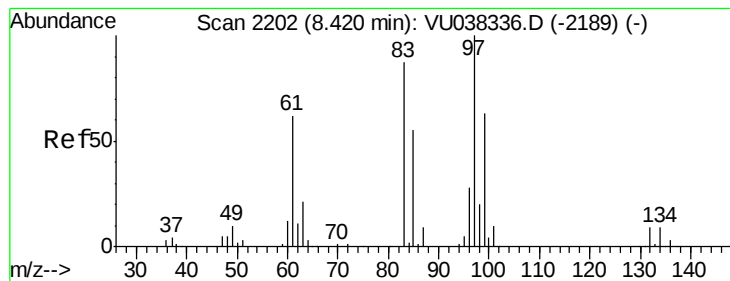
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 53.122 ug/L

RT: 8.42 min Scan# 2202

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

Tot Ion: 97 Resp: 221757

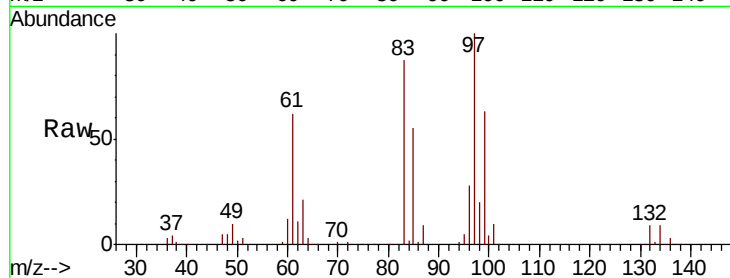
Ion Ratio Lower Upper

97 100

99 62.9 44.0 81.8

83 86.9 60.8 113.0

85 54.5 38.1 70.9

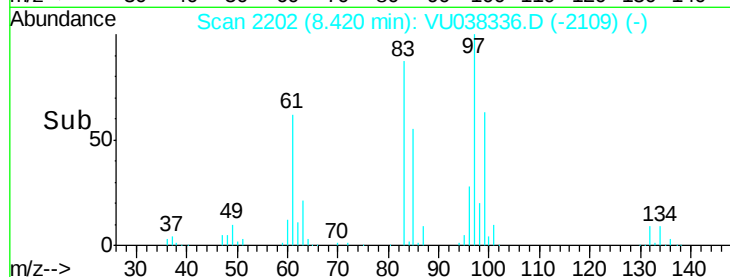


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

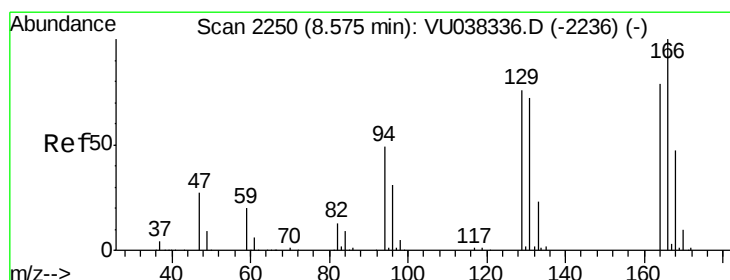
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



Time-->

8.35 8.40 8.45 8.50



#46

Tetrachloroethene

Concen: 51.761 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Tgt Ion: 164 Resp: 164222

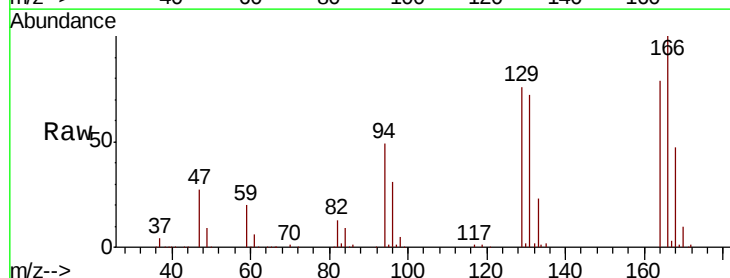
Ion Ratio Lower Upper

164 100

129 96.0 67.2 124.8

131 90.6 63.4 117.8

166 126.5 88.5 164.4

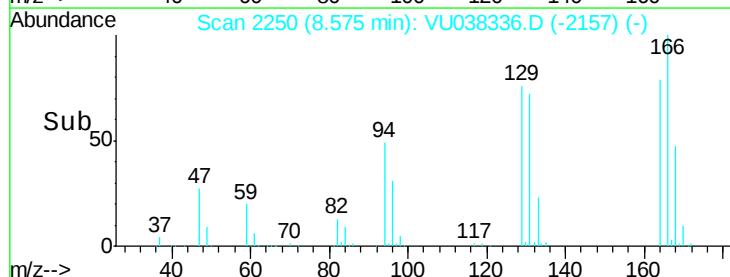


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

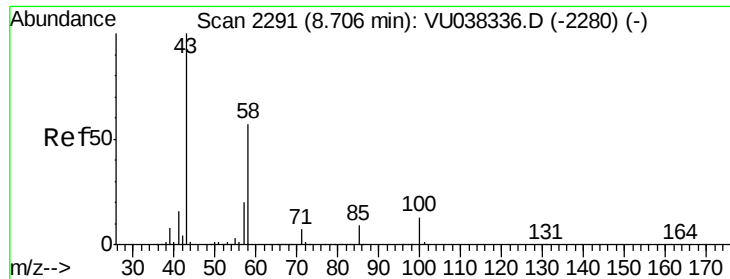
Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



Time-->

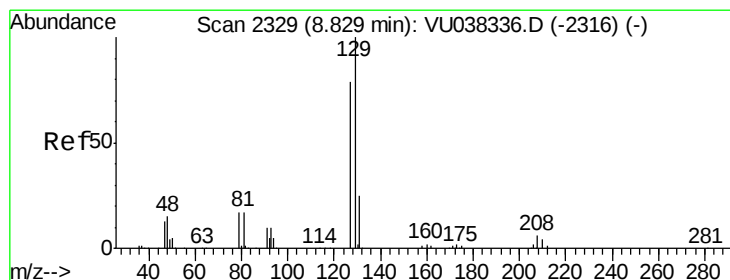
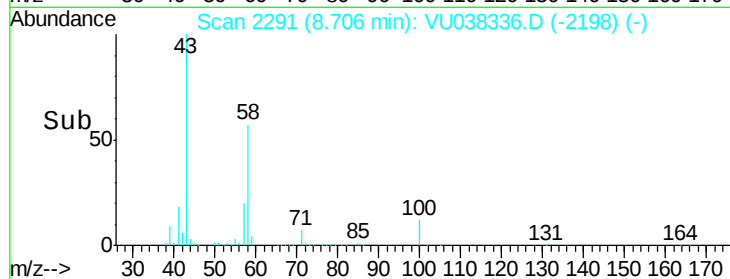
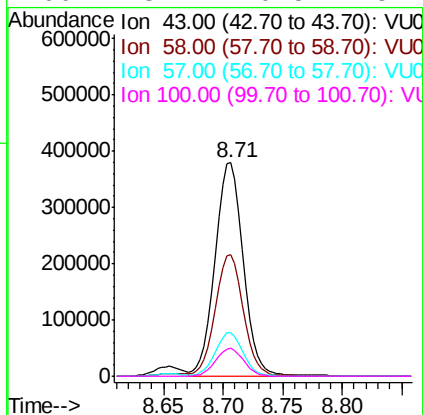
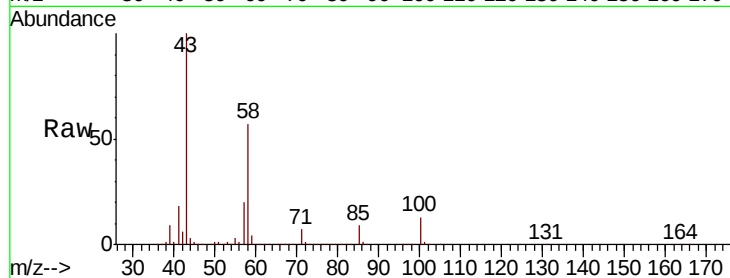
8.50 8.55 8.60 8.65



#48
2-Hexanone
Concen: 105.525 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU038336.D
Acq: 28 May 2020 10:07

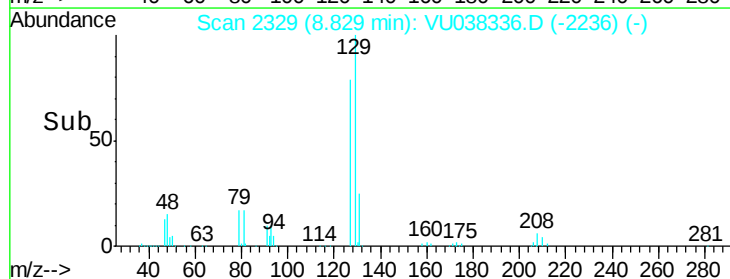
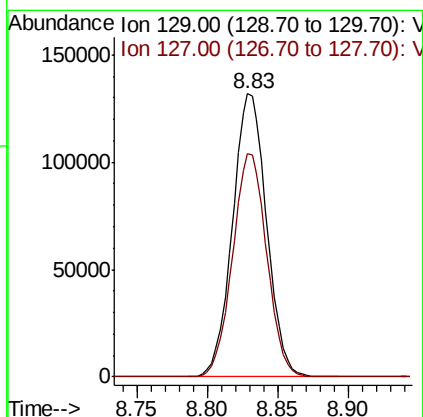
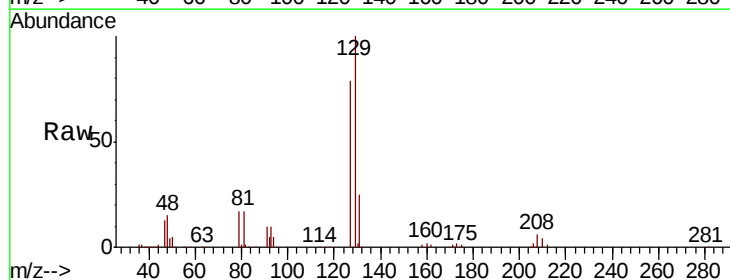
Instrument :
MSVOA_U
ClientSampleID :
VSTD05031

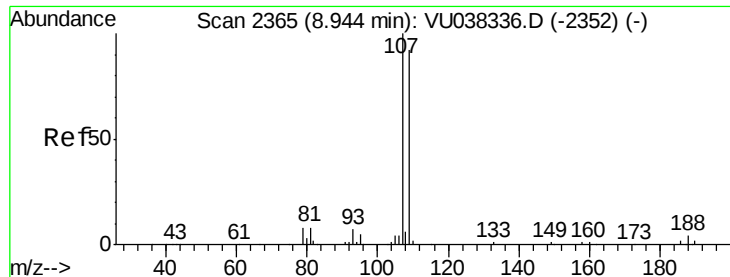
Tot Ion:	43	Resp:	623312
Ion	Ratio	Lower	Upper
43	100		
58	56.9	45.5	68.3
57	20.4	16.3	24.5
100	13.1	10.5	15.7



#49
Dibromochloromethane
Concen: 52.817 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. 0.00 min
Lab File: VU038336.D
Acq: 28 May 2020 10:07

Tgt Ion:	129	Resp:	223241
Ion	Ratio	Lower	Upper
129	100		
127	78.9	55.2	102.6

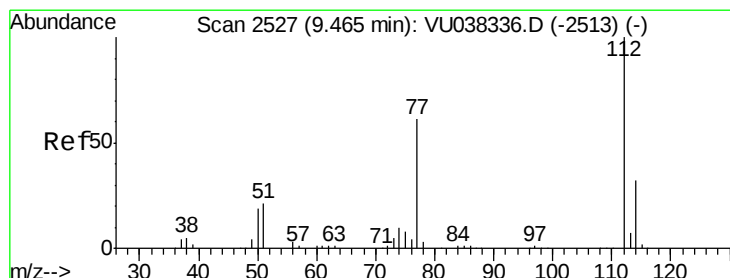
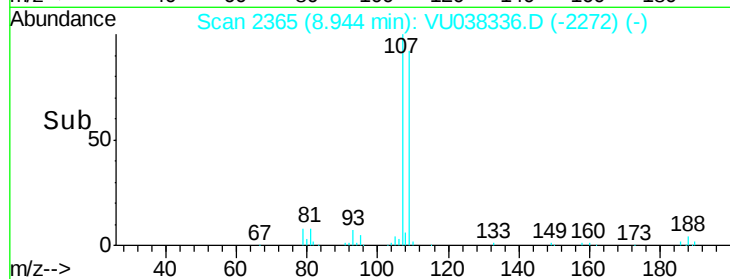
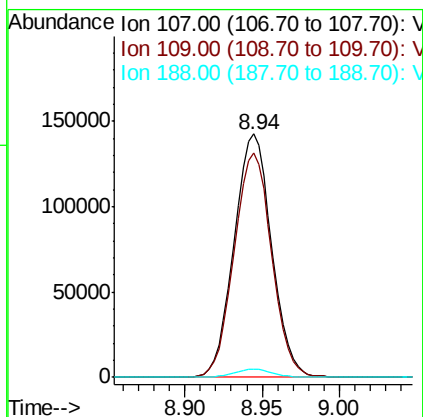
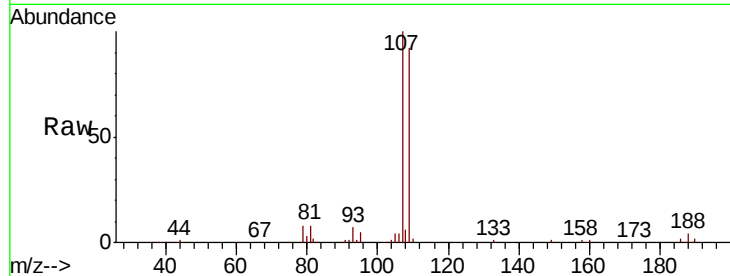




#50
 1,2-Dibromoethane
 Concen: 53.540 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

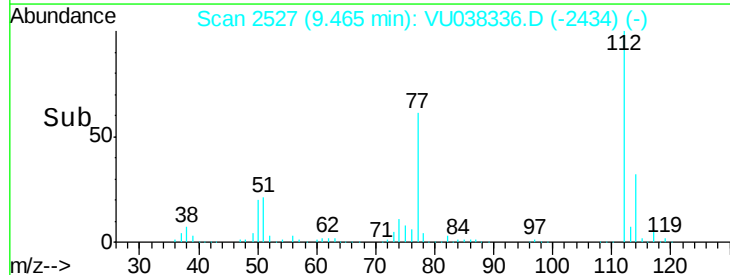
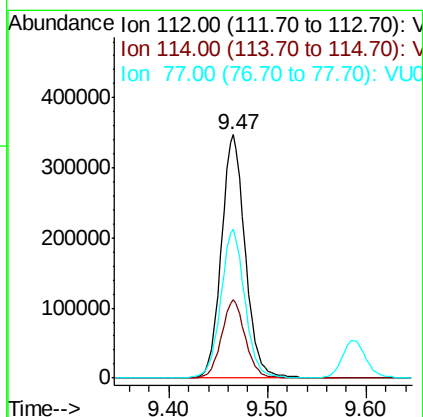
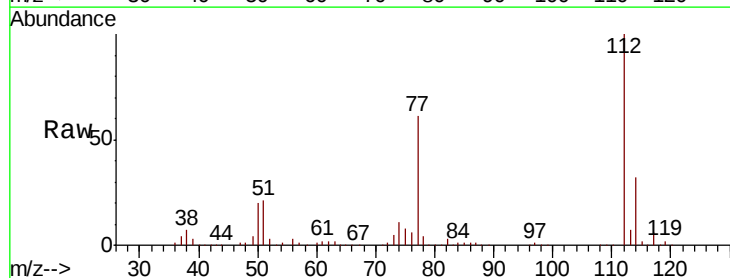
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

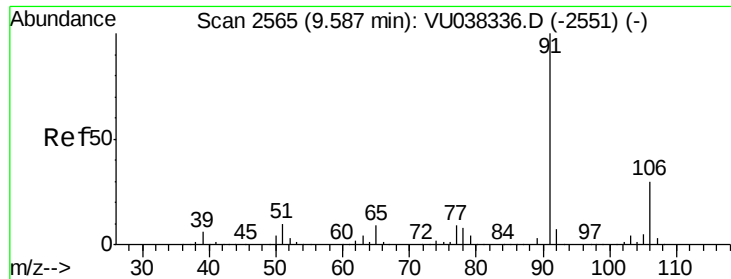
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.9	64.3	119.5
188	3.5	2.8	4.2



#51
 Chlorobenzene
 Concen: 51.589 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.6	42.0
77	61.0	48.8	73.2





#52

Ethylbenzene

Concen: 52.415 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

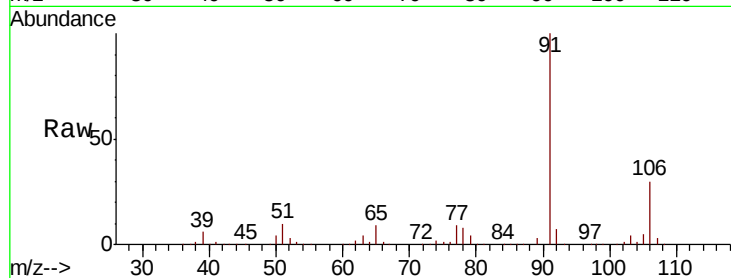
VSTD05031

Tot Ion: 91 Resp: 1045813

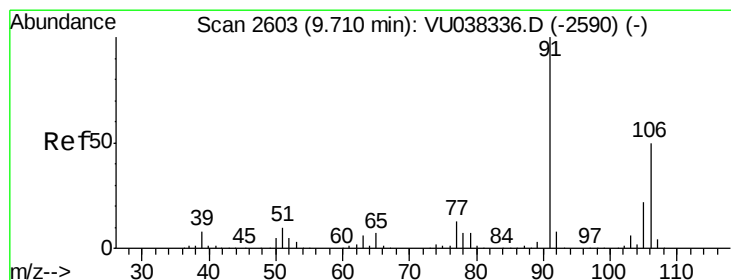
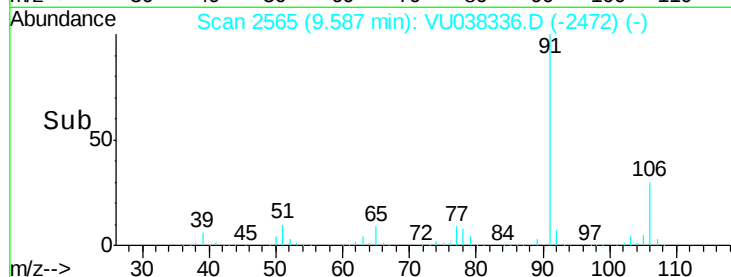
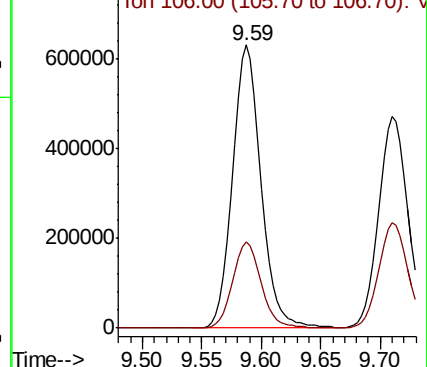
Ion Ratio Lower Upper

91 100

106 30.3 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038336.D (-2551) (-)



#53

m,p-Xylene

Concen: 53.289 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU038336.D

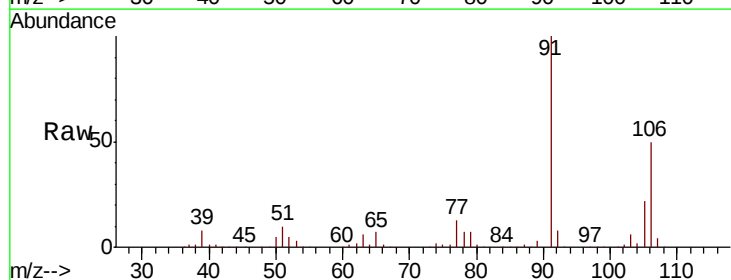
Acq: 28 May 2020 10:07

Tgt Ion: 106 Resp: 406610

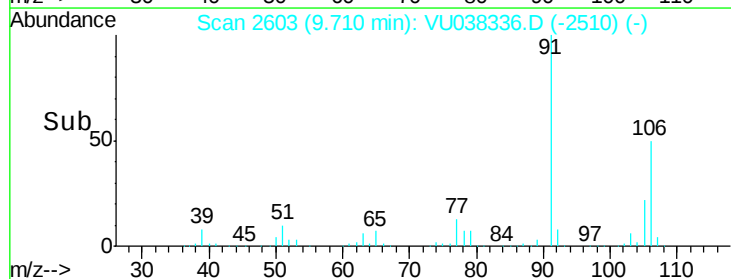
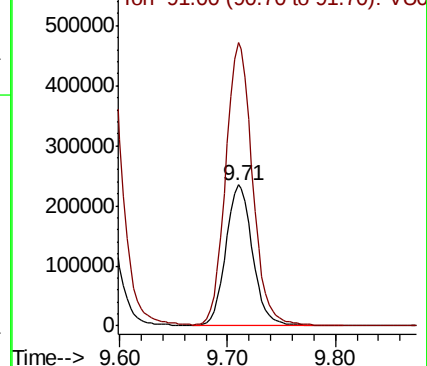
Ion Ratio Lower Upper

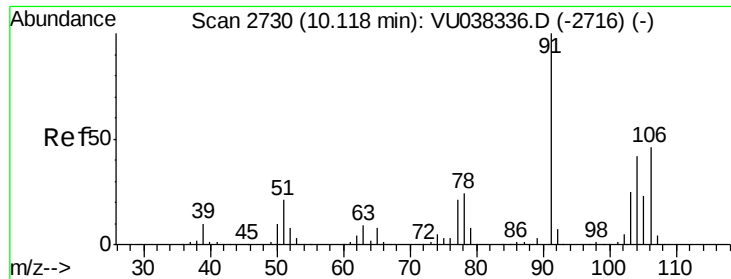
106 100

91 201.1 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038336.D (-2590) (-)





#54

o-xylene

Concen: 52.764 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

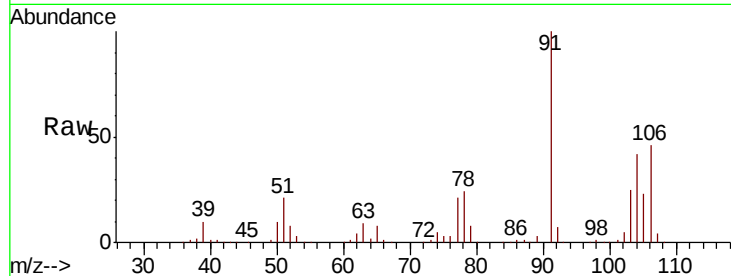
VSTD05031

Tot Ion:106 Resp: 391430

Ion Ratio Lower Upper

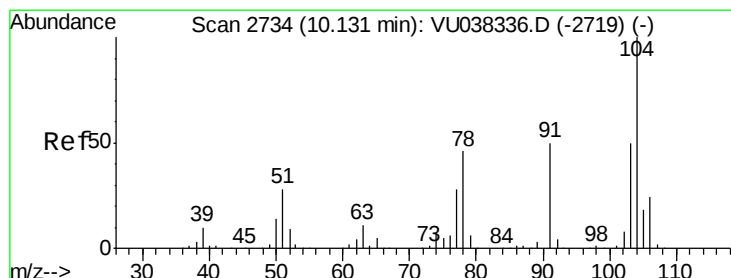
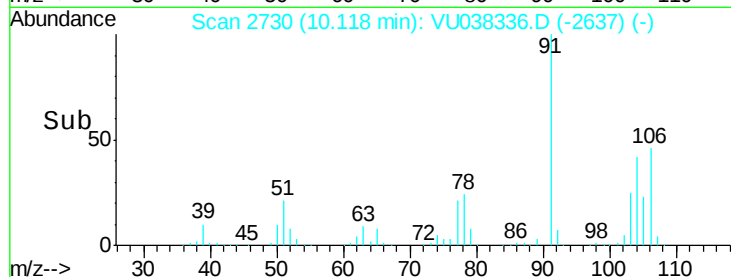
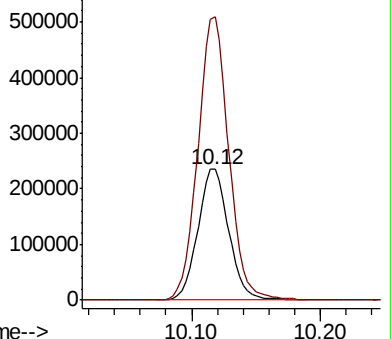
106 100

91 216.1 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.519 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU038336.D

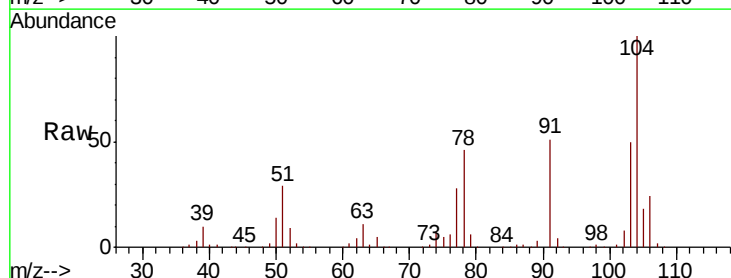
Acq: 28 May 2020 10:07

Tgt Ion:104 Resp: 682375

Ion Ratio Lower Upper

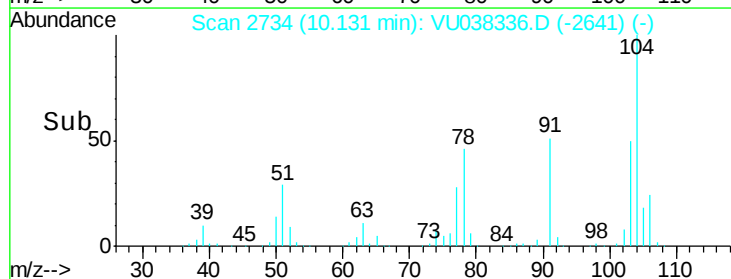
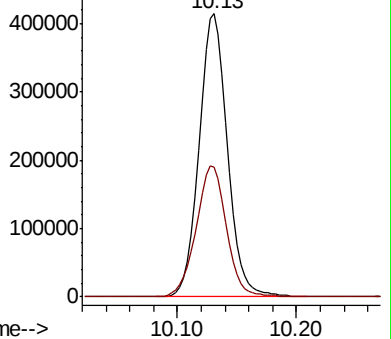
104 100

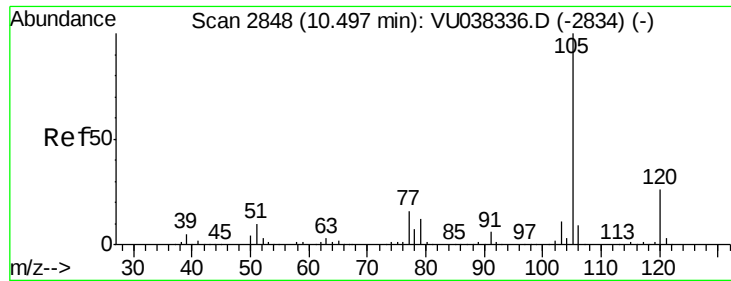
78 45.9 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.454 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleID :

VSTD05031

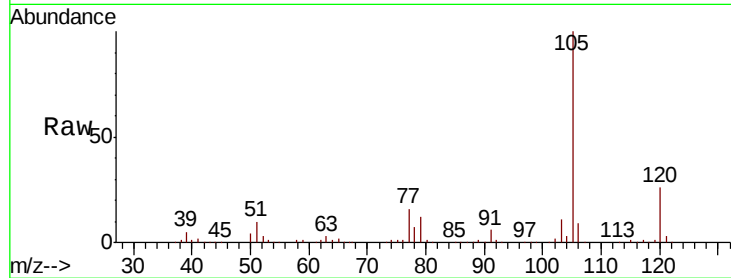
Tot Ion:105 Resp: 1016895

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

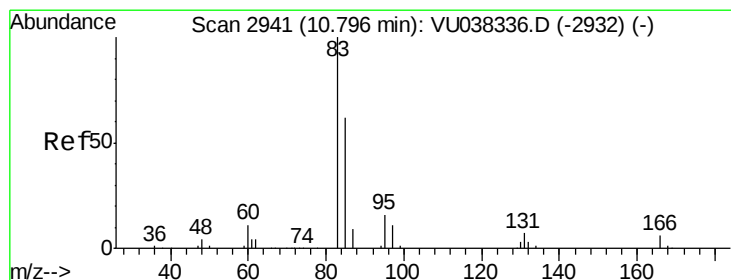
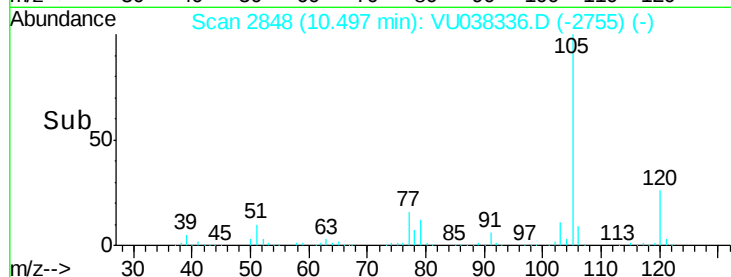
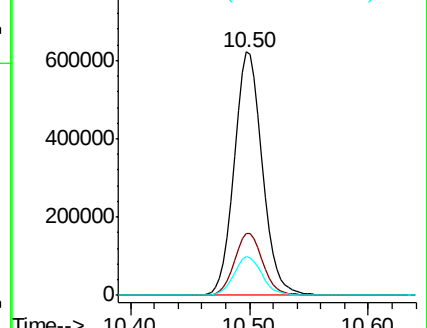
77 16.0 12.8 19.2



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: 52.308 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

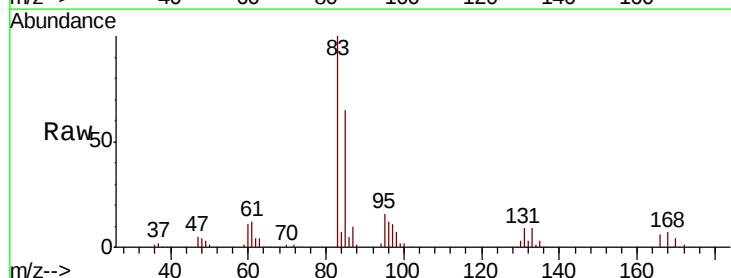
Tgt Ion: 83 Resp: 373675

Ion Ratio Lower Upper

83 100

85 65.0 45.5 84.5

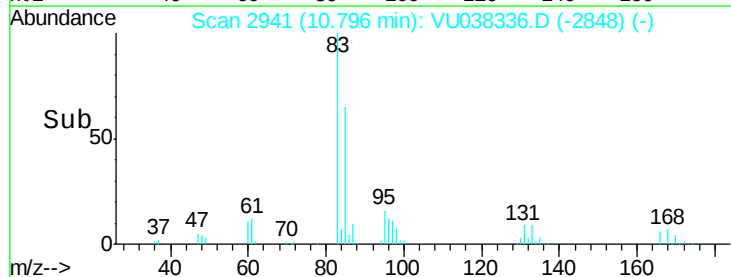
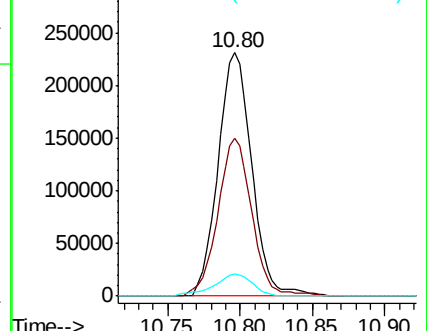
131 9.1 7.3 10.9

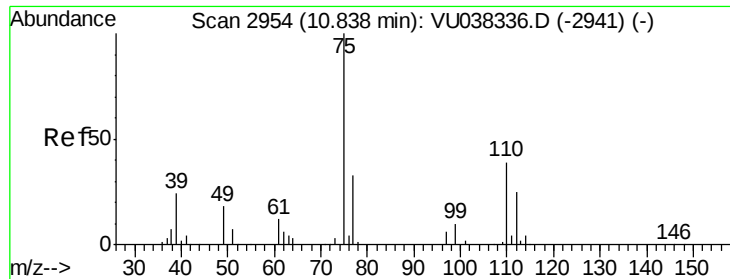


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

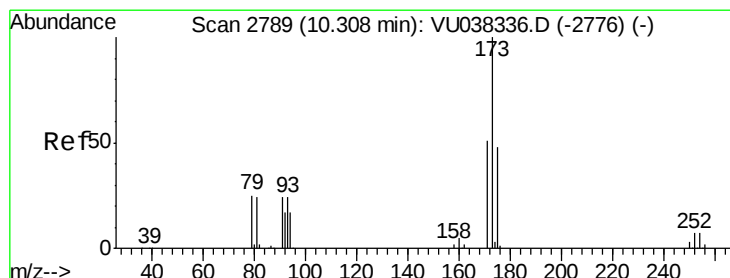
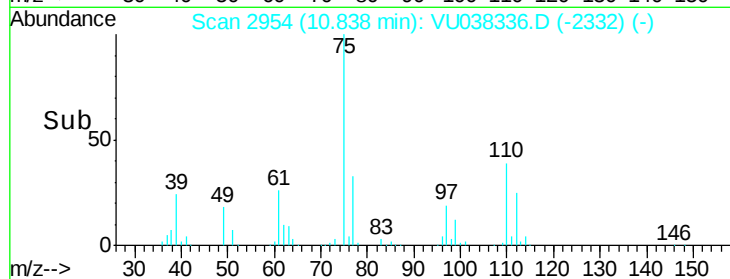
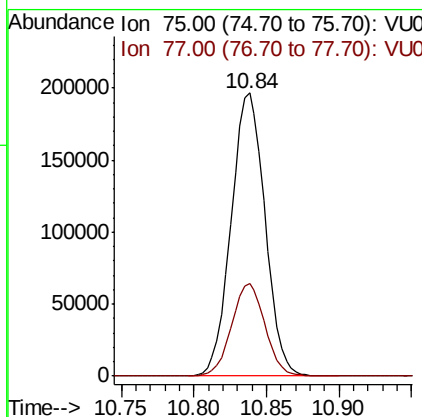
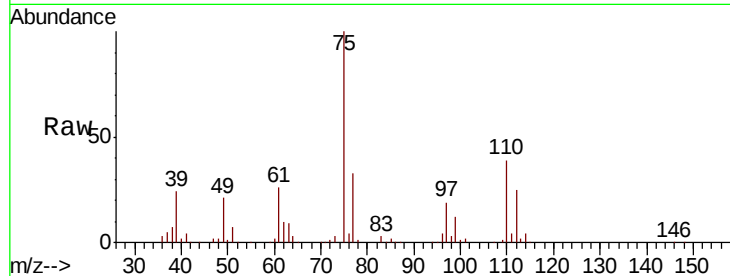




#59
 1,2,3-Trichloropropane
 Concen: 51.815 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

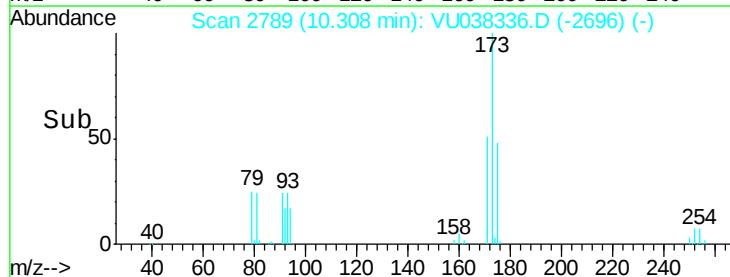
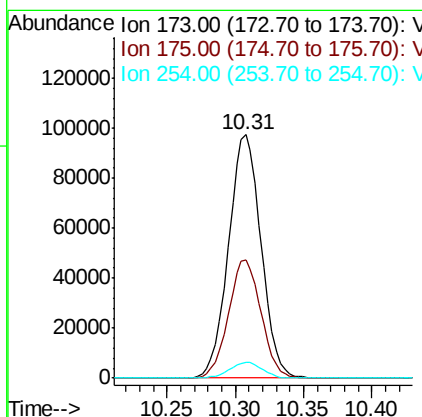
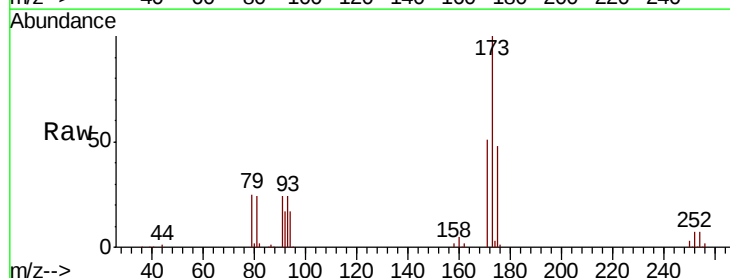
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

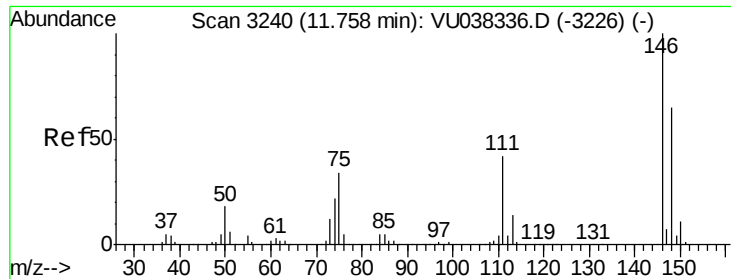
Tot Ion: 75 Resp: 318733
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.8 38.8



#61
 Bromoform
 Concen: 52.142 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

Tgt Ion: 173 Resp: 160797
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.0 58.4
 254 6.6 5.3 7.9





#62

1,3-Dichlorobenzene

Concen: 50.852 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

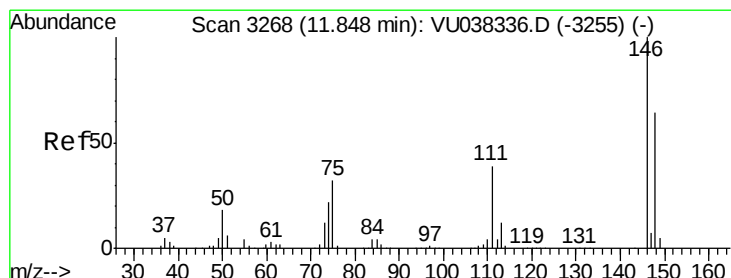
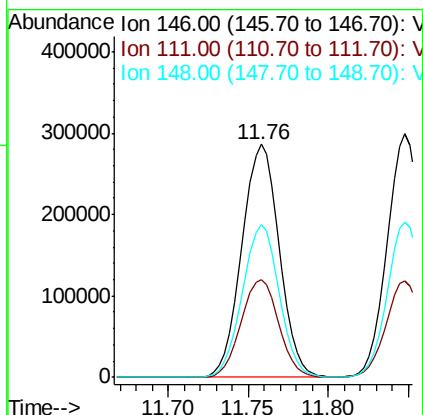
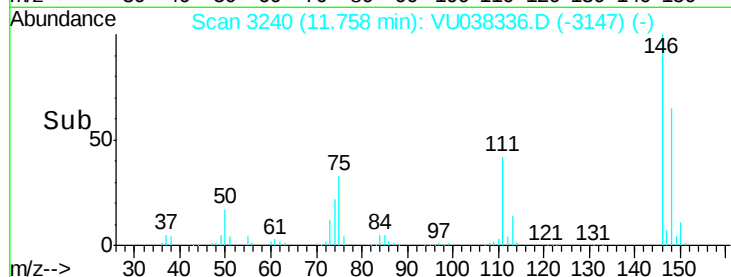
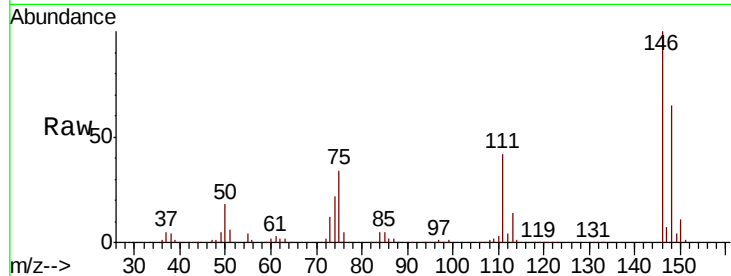
Tot Ion:146 Resp: 456331

Ion Ratio Lower Upper

146 100

111 42.0 29.4 54.6

148 65.4 45.8 85.0



#63

1,4-Dichlorobenzene

Concen: 51.150 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

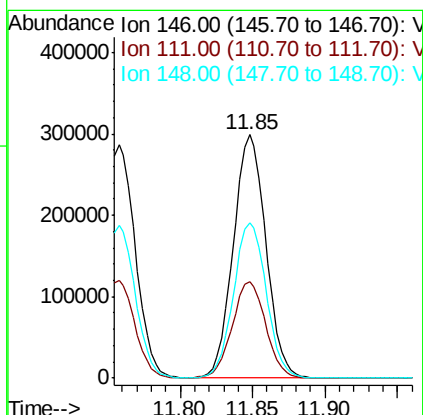
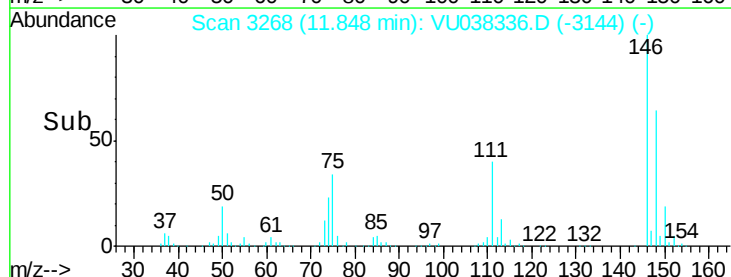
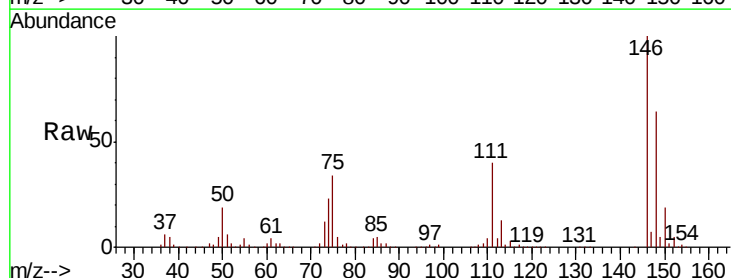
Tgt Ion:146 Resp: 466555

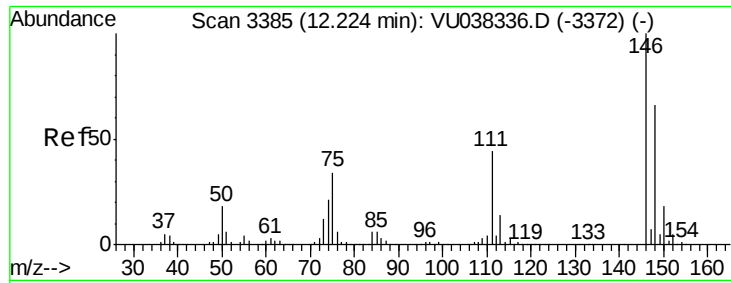
Ion Ratio Lower Upper

146 100

111 39.6 27.7 51.5

148 63.9 44.7 83.1





#65

1,2-Dichlorobenzene

Concen: 51.179 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

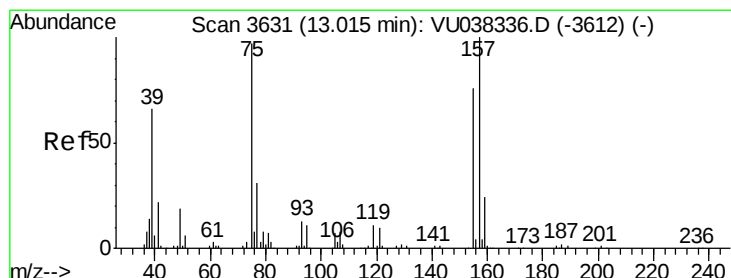
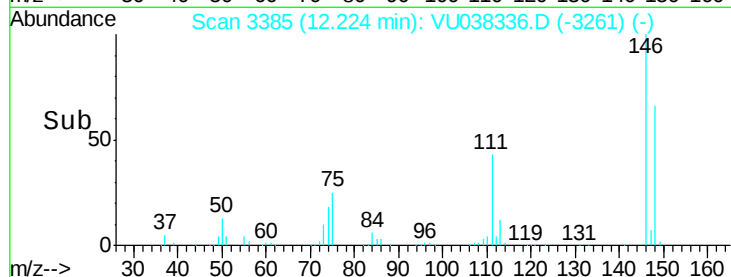
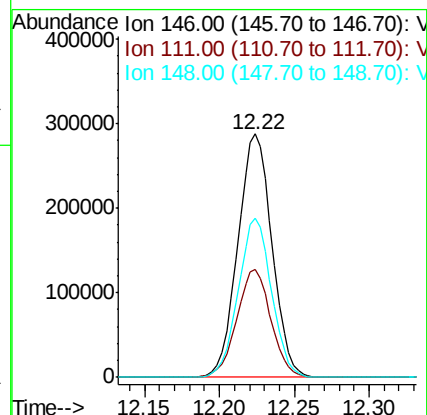
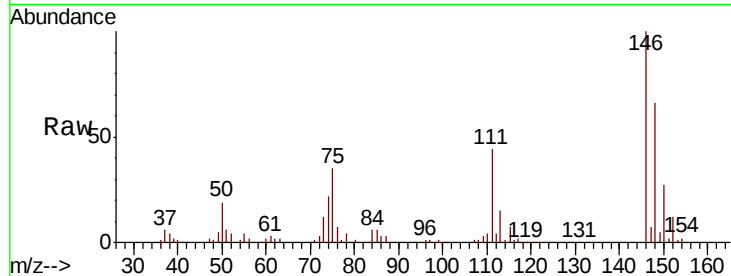
Tot Ion:146 Resp: 455434

Ion Ratio Lower Upper

146 100

111 44.1 35.3 52.9

148 65.6 52.5 78.7



#66

1,2-Dibromo-3-chloropropane

Concen: 52.186 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

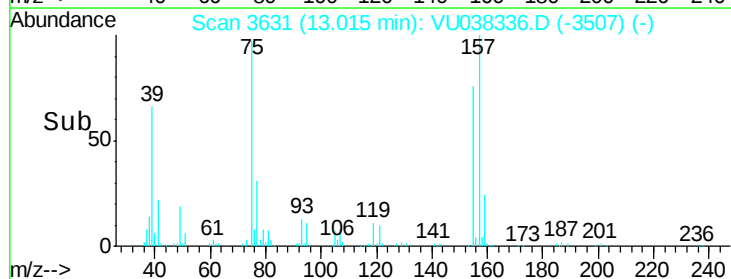
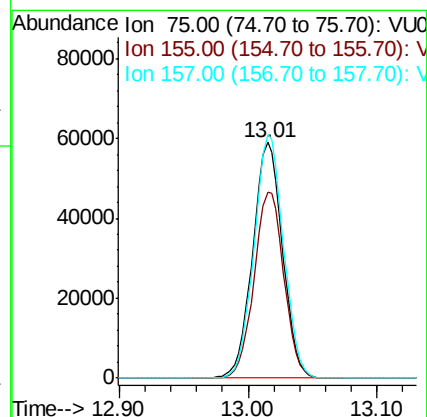
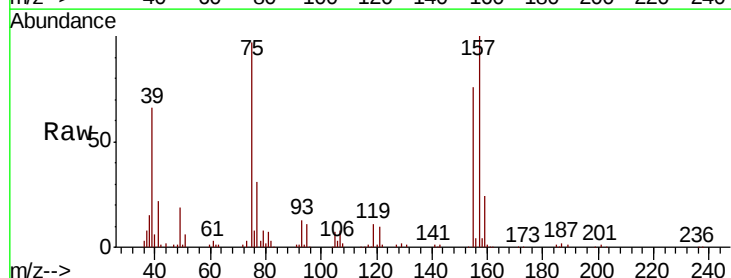
Tgt Ion: 75 Resp: 95071

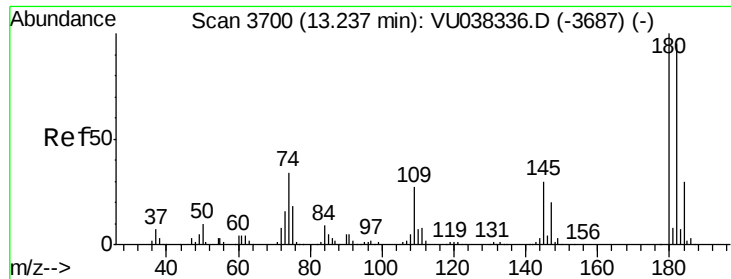
Ion Ratio Lower Upper

75 100

155 78.9 63.1 94.7

157 103.4 82.7 124.1

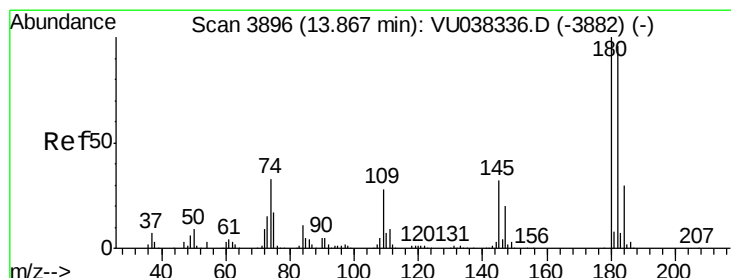
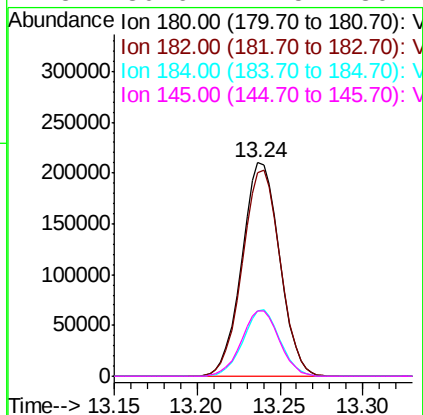
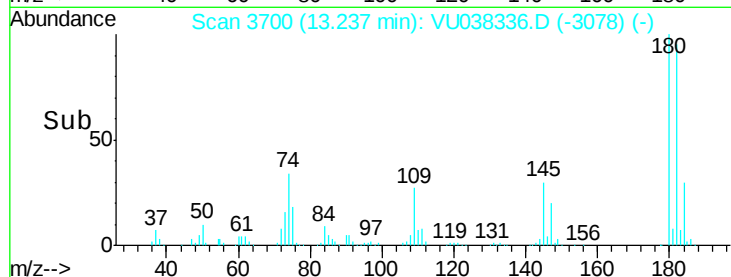
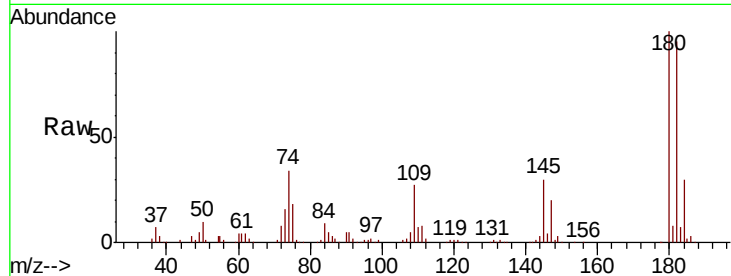




#67
 1,3,5-Trichlorobenzene
 Concen: 52.016 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

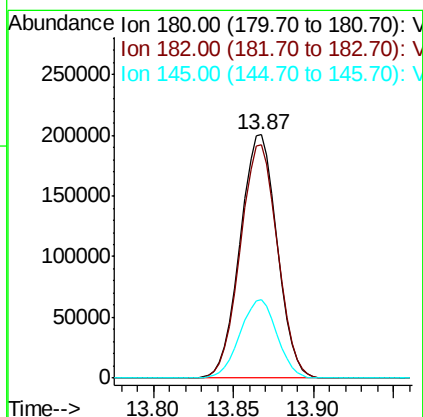
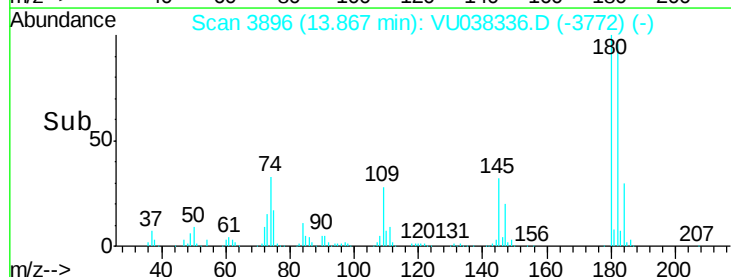
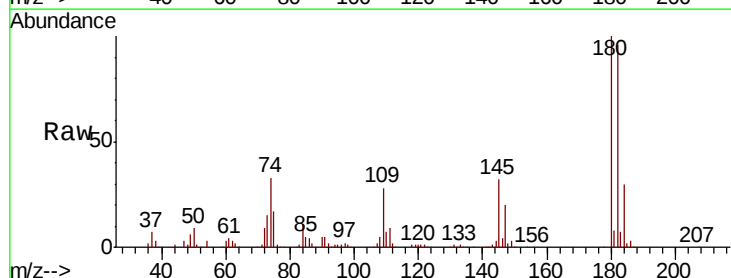
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05031

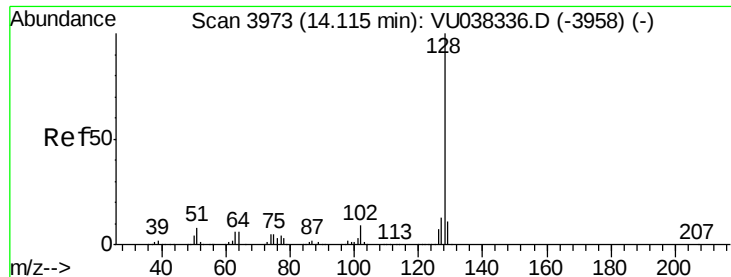
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.4	116.2
184	30.4	24.3	36.5
145	30.6	24.5	36.7



#68
 1,2,4-trichlorobenzene
 Concen: 51.650 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU038336.D
 Acq: 28 May 2020 10:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.1	115.7
145	32.3	25.8	38.8





#69

Naphthalene

Concen: 54.899 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05031

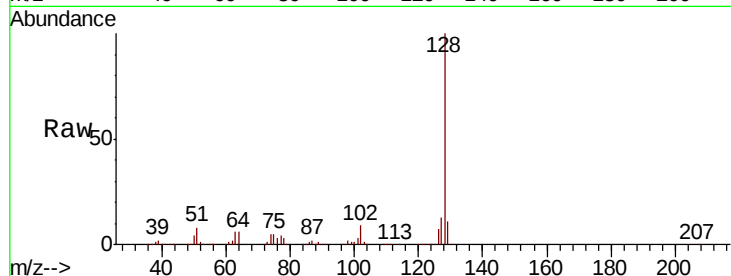
Tot Ion:128 Resp: 1204008

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

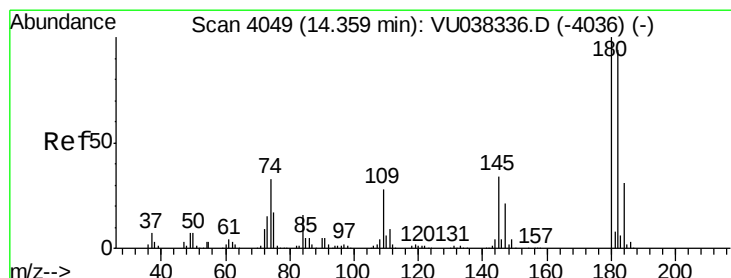
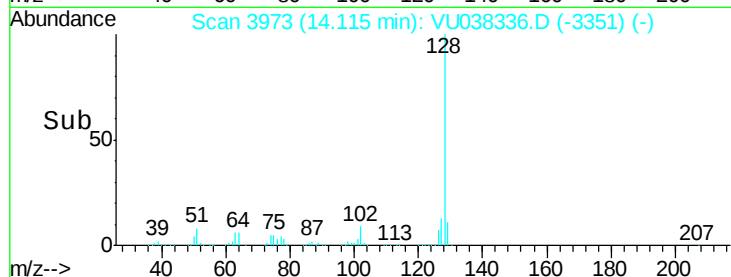
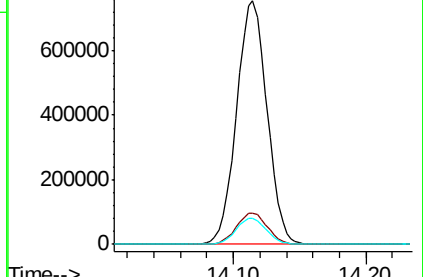
129 10.7 8.6 12.8



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: 53.321 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU038336.D

Acq: 28 May 2020 10:07

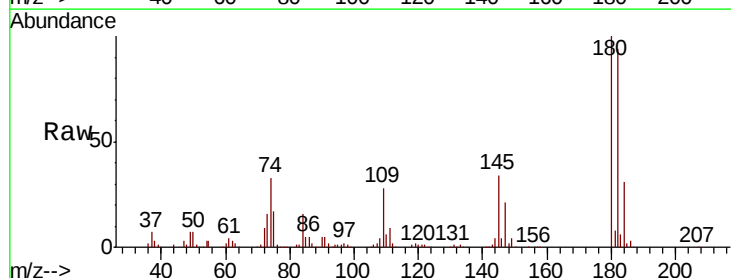
Tgt Ion:180 Resp: 326272

Ion Ratio Lower Upper

180 100

182 94.4 75.5 113.3

145 33.3 26.6 40.0



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

