

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032322.D
 Acq On : 28 May 2019 12:36
 Operator : JC/SP
 Sample : VSTD20057
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

Quant Time: May 29 04:49:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 29 04:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	892587	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	913134	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	487339	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	1212594	240.48	ug/L	0.00
7) Chloroethane-d5	1.65	69	968544	209.03	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.26	63	2140883	220.53	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1770601	401.43	ug/L	0.00
24) Chloroform-d	4.64	84	2137382	180.95	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	1266982	172.90	ug/L	0.00
32) Benzene-d6	5.33	84	4523228	193.92	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	1391179	188.61	ug/L	0.00
41) Toluene-d8	7.56	98	4347338	203.21	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	727993	213.96	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1406707	452.43	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	2237765	184.51	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	1849039	181.16	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	1282154	220.153	ug/L	99
3) Chloromethane	1.32	50	1284886	183.178	ug/L	99
5) Vinyl chloride	1.40	62	1359972	205.196	ug/L	98
6) Bromomethane	1.60	94	845754	166.374	ug/L	98
8) Chloroethane	1.67	64	801122	182.019	ug/L	99
9) Trichlorofluoromethane	1.87	101	1725847	207.085	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1034610	212.753	ug/L	100
12) 1,1-Dichloroethene	2.27	96	1068032	200.791	ug/L	97
13) Acetone	2.32	43	1360087	364.913	ug/L	99
14) Carbon disulfide	2.47	76	3212013	201.011	ug/L	99
15) Methyl Acetate	2.61	43	1204171	174.034	ug/L	99
16) Methylene chloride	2.69	84	1208617	165.609	ug/L	99
17) trans-1,2-Dichloroethene	2.97	96	1111796	182.790	ug/L	96
18) Methyl tert-butyl Ether	2.99	73	3498962	171.950	ug/L	100
19) 1,1-Dichloroethane	3.44	63	1998247	183.384	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	1283498	180.494	ug/L	99
22) 2-Butanone	4.25	43	1971367	402.776	ug/L	99
23) Bromochloromethane	4.54	128	647918	166.249	ug/L	98
25) Chloroform	4.67	83	2069183	172.328	ug/L	100
27) 1,2-Dichloroethane	5.40	62	1574630	169.080	ug/L	99
29) Cyclohexane	4.99	56	1869758	245.537	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	1743175	190.874	ug/L	100
31) Carbon tetrachloride	5.13	117	1521789	201.442	ug/L	100
33) Benzene	5.38	78	4750163	183.004	ug/L	100
34) Trichloroethene	6.18	95	1231722	189.573	ug/L	96
35) Methylcyclohexane	6.41	83	2028402	246.040	ug/L	99
37) 1,2-Dichloropropane	6.43	63	1227981	182.126	ug/L	100
38) Bromodichloromethane	6.75	83	1617042	174.529	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	2057009	207.375	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	3646732	394.292	ug/L	99

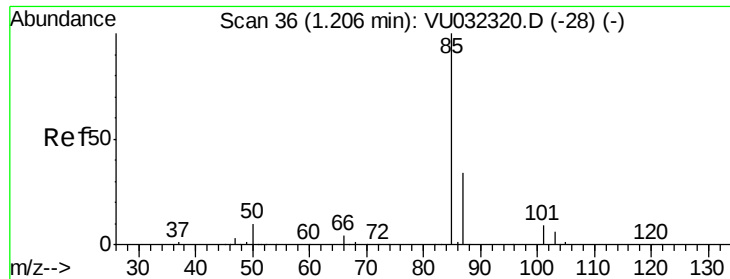
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	5388937	196.152	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	1821349	208.474	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	1238248	169.435	ug/L	98
46) Tetrachloroethene	8.22	164	1011758	204.089	ug/L	98
48) 2-Hexanone	8.36	43	2998368	412.701	ug/L	99
49) Dibromochloromethane	8.47	129	1421192	182.891	ug/L	100
50) 1,2-Dibromoethane	8.58	107	1357520	173.040	ug/L	98
51) Chlorobenzene	9.12	112	3481418	189.707	ug/L	100
52) Ethylbenzene	9.24	91	6042875	213.134	ug/L	100
53) m,p-Xylene	9.37	106	2358584	215.467	ug/L	99
54) o-xylene	9.77	106	2364706	209.275	ug/L	99
55) Styrene	9.79	104	4140647	215.090	ug/L	99
56) Isopropylbenzene	10.16	105	6107977	227.373	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	2232550	179.389	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	1716855	175.183	ug/L	99
61) Bromoform	9.95	173	1171088	165.345	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	2921136	188.989	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	2959724	183.864	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	2920721	175.126	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	507867	169.942	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	2236062	202.676	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	2018535	232.507	ug/L	97
69) Naphthalene	13.74	128	6364831	214.428	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	2024720	204.868	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 220.153 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

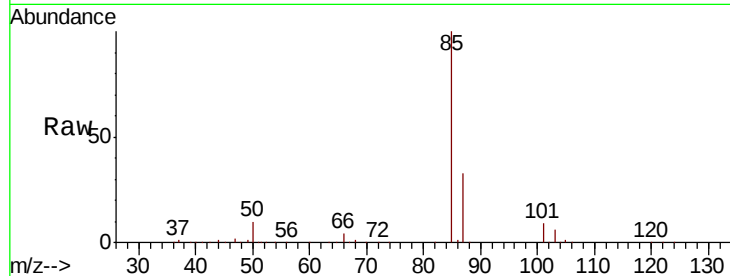
VSTD20057

Tgt Ion: 85 Resp: 1282154

Ion Ratio Lower Upper

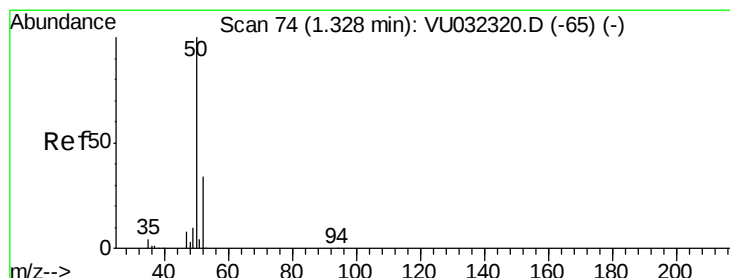
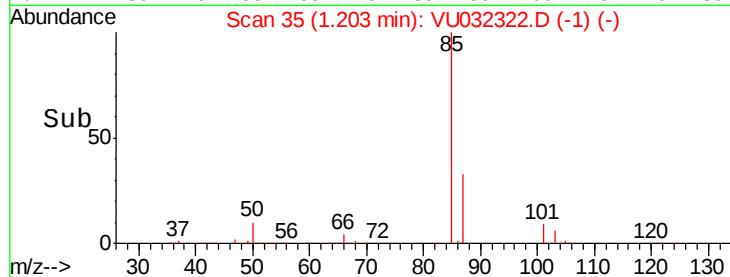
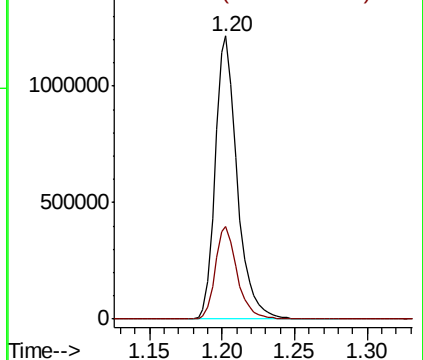
85 100

87 32.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VU032322.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032322.D (-1) (-)



#3

Chloromethane

Concen: 183.178 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032322.D

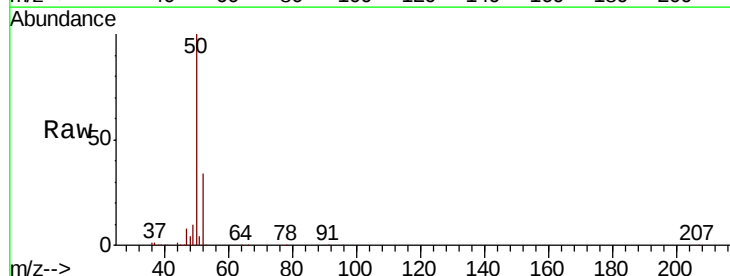
Acq: 28 May 2019 12:36

Tgt Ion: 50 Resp: 1284886

Ion Ratio Lower Upper

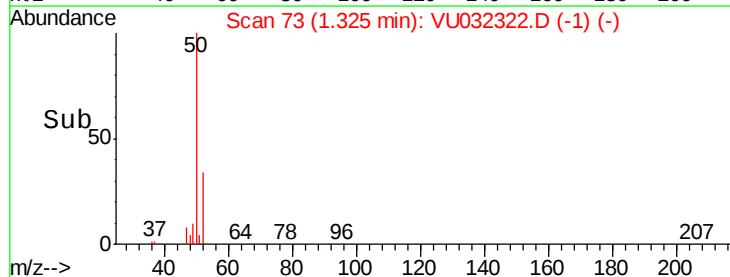
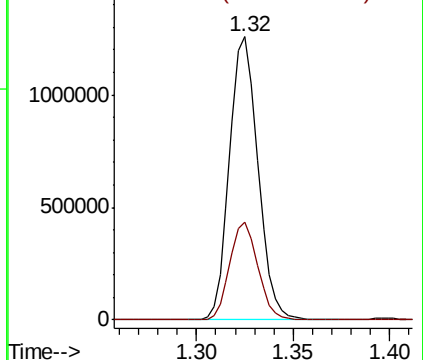
50 100

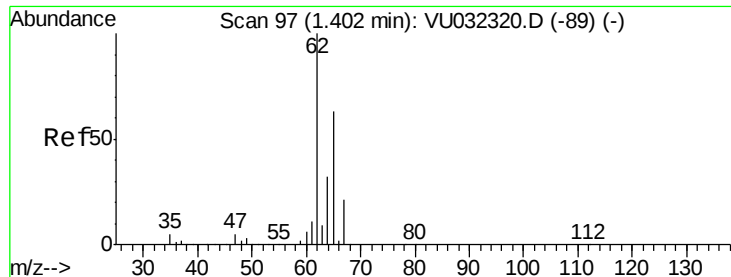
52 34.3 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU032322.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU032322.D (-1) (-)





#5

Vinyl chloride

Concen: 205.196 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

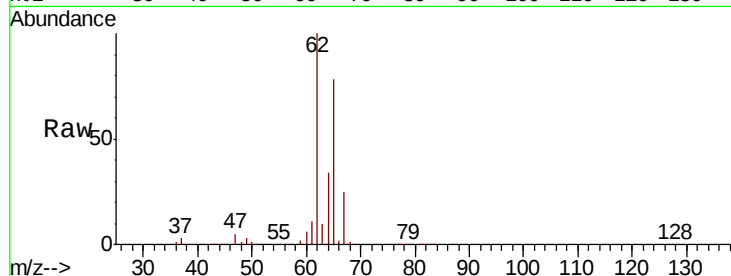
VSTD20057

Tgt Ion: 62 Resp: 1359972

Ion Ratio Lower Upper

62 100

64 33.8 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU032322.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032322.D (-89) (-)

1500000

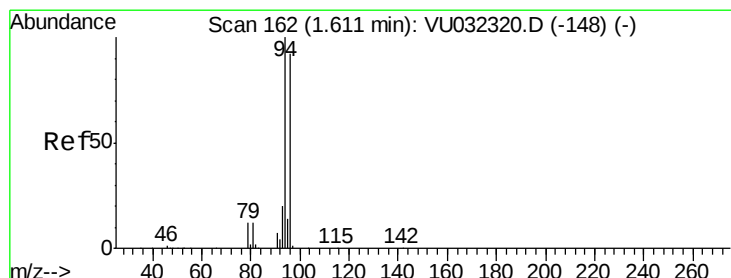
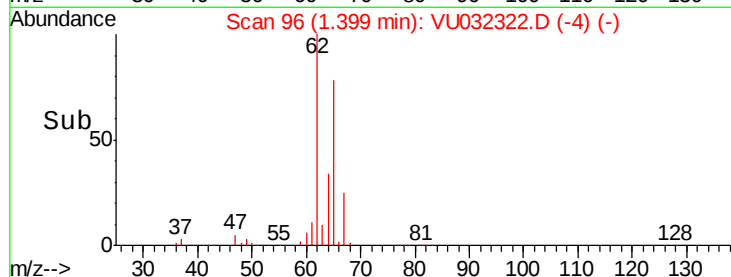
1000000

500000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 166.374 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU032322.D

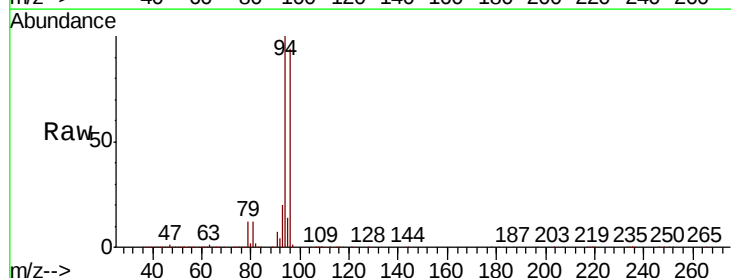
Acq: 28 May 2019 12:36

Tgt Ion: 94 Resp: 845754

Ion Ratio Lower Upper

94 100

96 94.5 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU032322.D (-148) (-)

Ion 96.00 (95.70 to 96.70): VU032322.D (-148) (-)

1000000

800000

600000

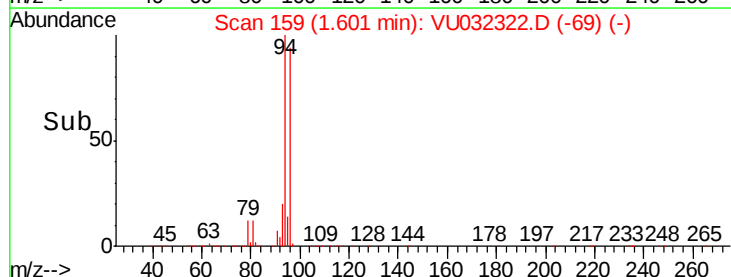
400000

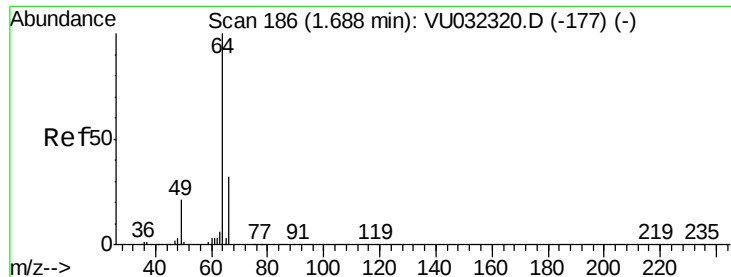
200000

0

1.55 1.60 1.65

Time-->





#8

Chloroethane

Concen: 182.019 ug/L

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

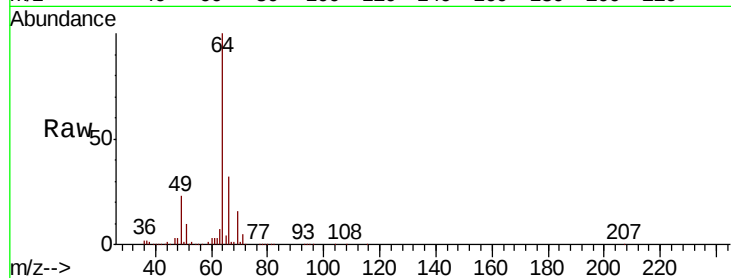
VSTD20057

Tgt Ion: 64 Resp: 801122

Ion Ratio Lower Upper

64 100

66 32.3 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU032322.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU032322.D (-177) (-)

1.67

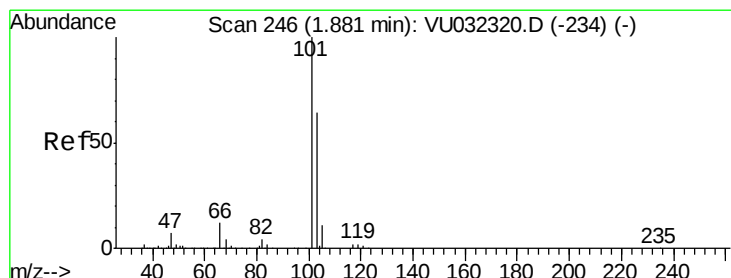
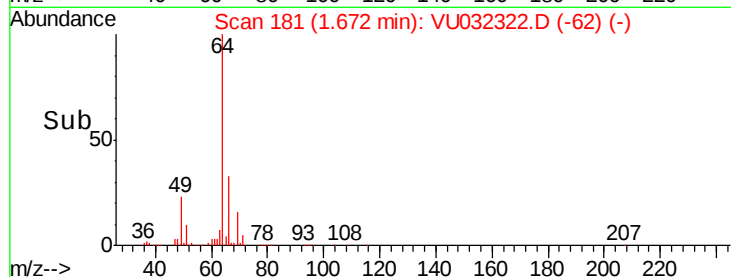
600000

400000

200000

0

Time--> 1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 207.085 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.01 min

Lab File: VU032322.D

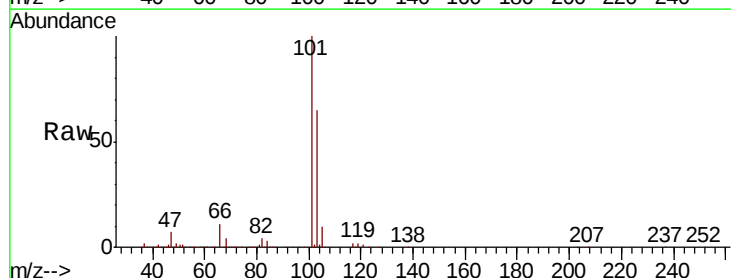
Acq: 28 May 2019 12:36

Tgt Ion: 101 Resp: 1725847

Ion Ratio Lower Upper

101 100

103 65.2 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU032322.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032322.D (-234) (-)

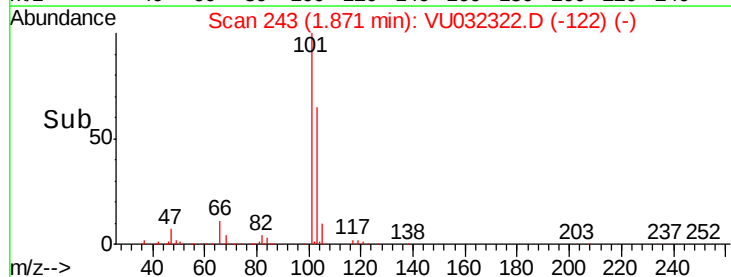
1.87

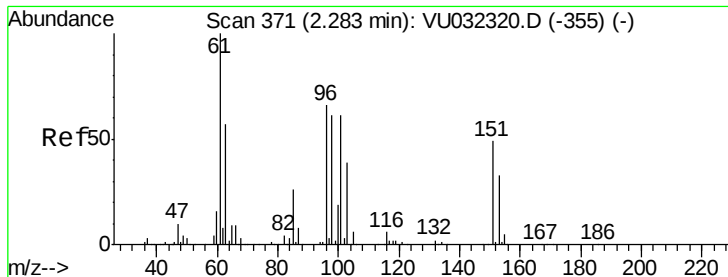
1000000

500000

0

Time--> 1.80 1.90 2.00





#10

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

Concen: 212.753 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

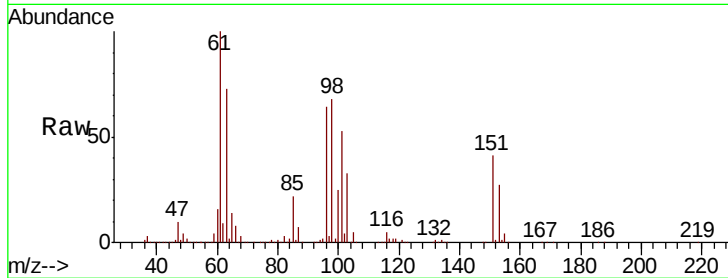
Tgt Ion:101 Resp: 1034610

Ion Ratio Lower Upper

101 100

85 41.6 33.4 50.0

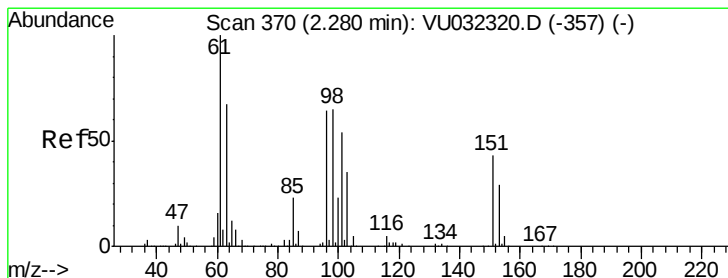
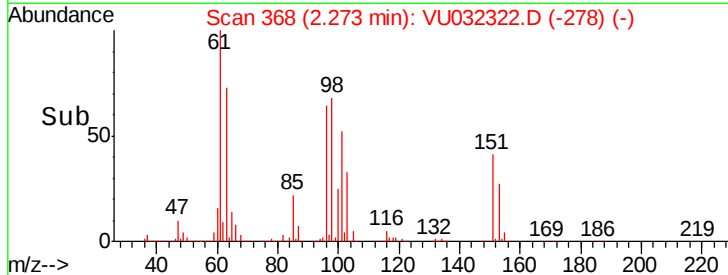
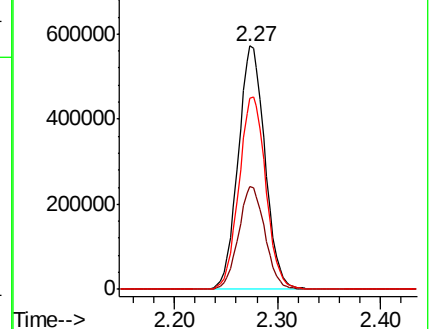
151 79.2 63.7 95.5



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: 200.791 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

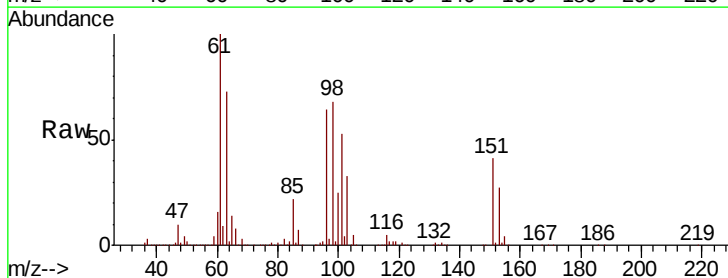
Tgt Ion: 96 Resp: 1068032

Ion Ratio Lower Upper

96 100

61 156.4 109.8 203.8

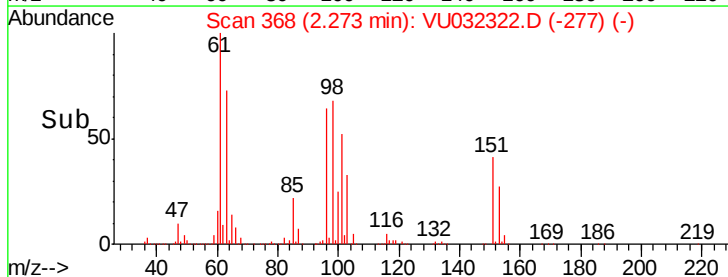
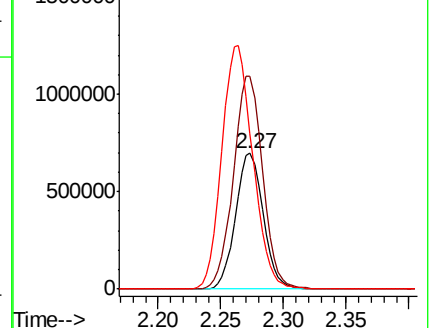
63 114.1 74.4 138.2

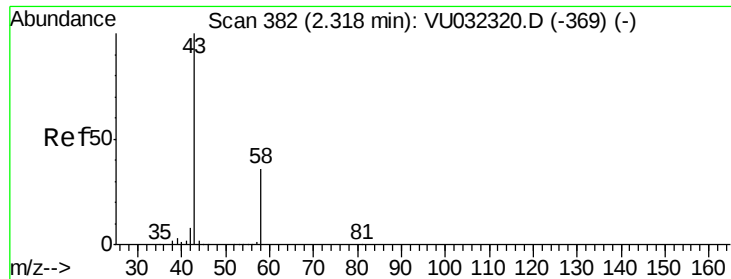


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 364.913 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

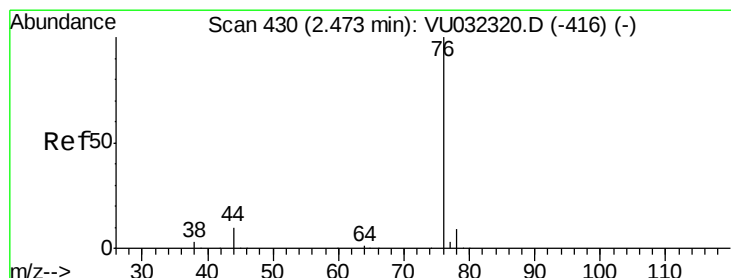
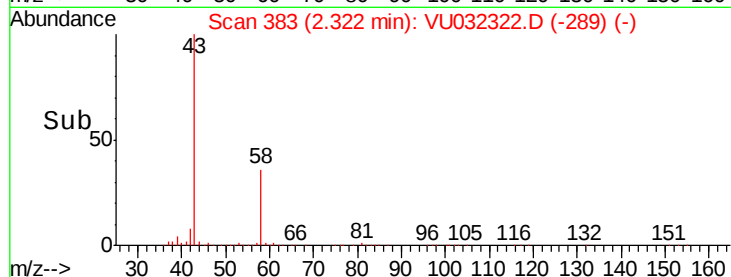
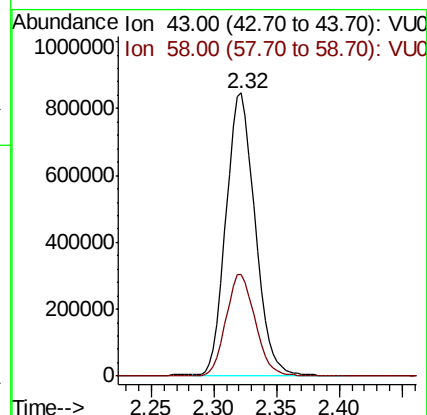
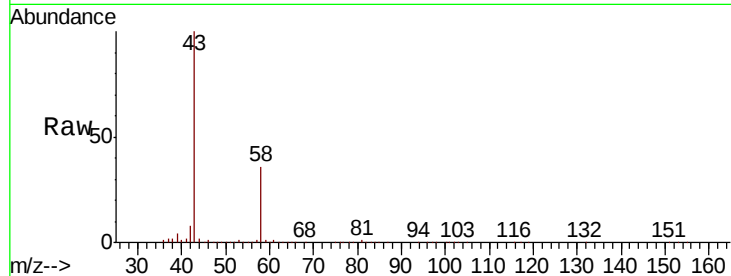
VSTD20057

Tgt Ion: 43 Resp: 1360087

Ion Ratio Lower Upper

43 100

58 36.3 0.0 73.6



#14

Carbon disulfide

Concen: 201.011 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.01 min

Lab File: VU032322.D

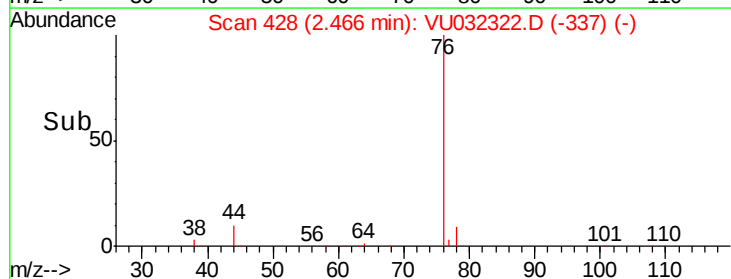
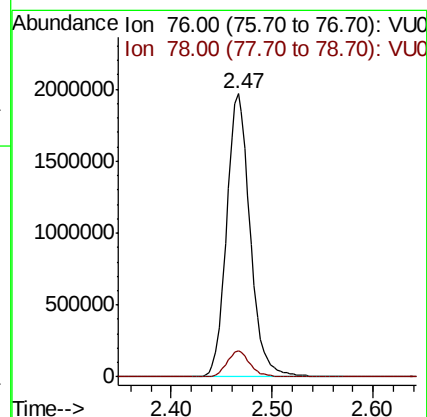
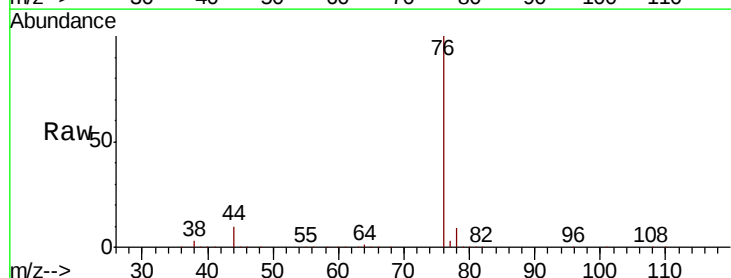
Acq: 28 May 2019 12:36

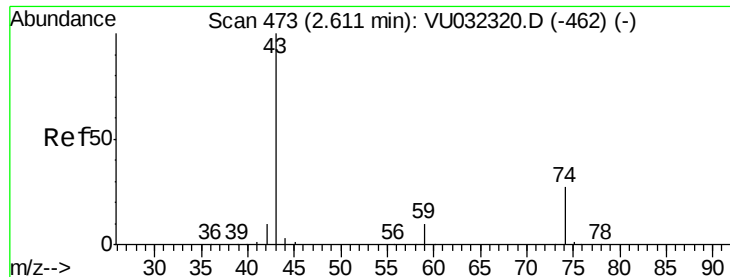
Tgt Ion: 76 Resp: 3212013

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6

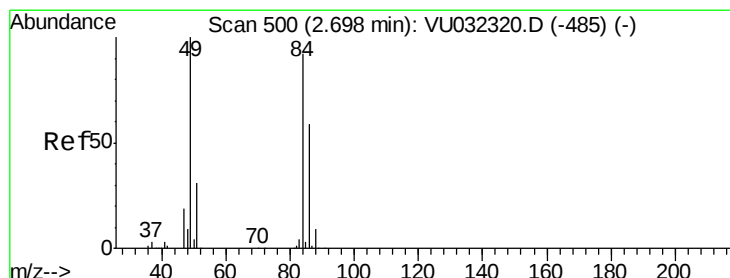
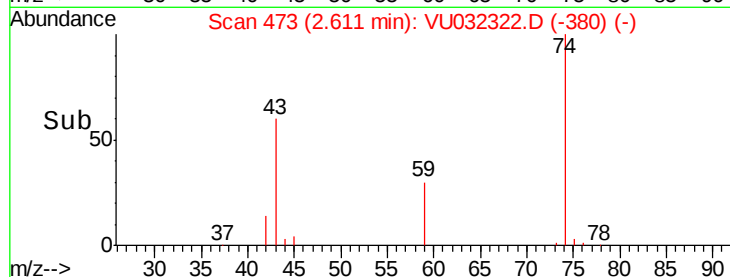
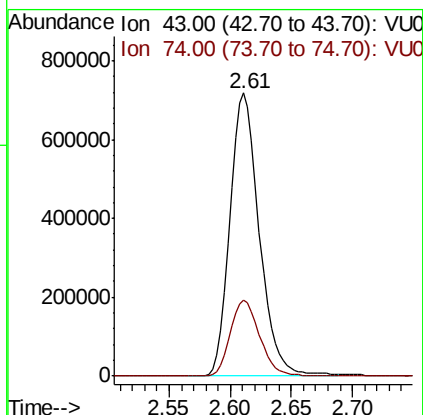
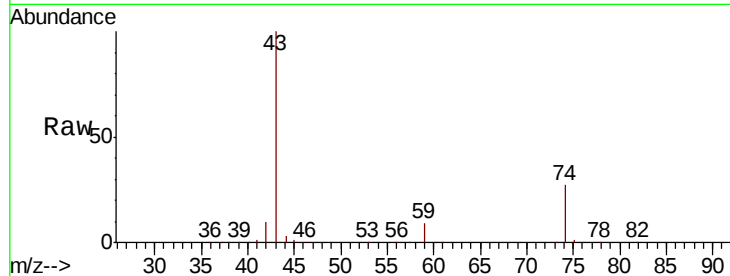




#15
Methyl Acetate
Concen: 174.034 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032322.D
Acq: 28 May 2019 12:36

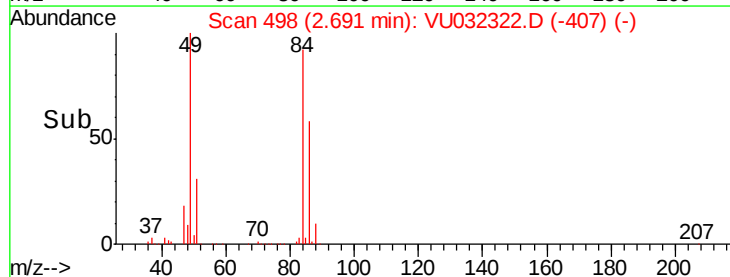
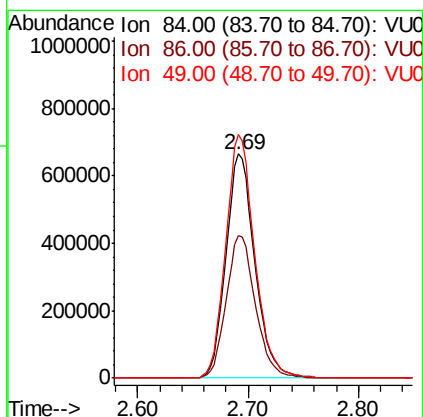
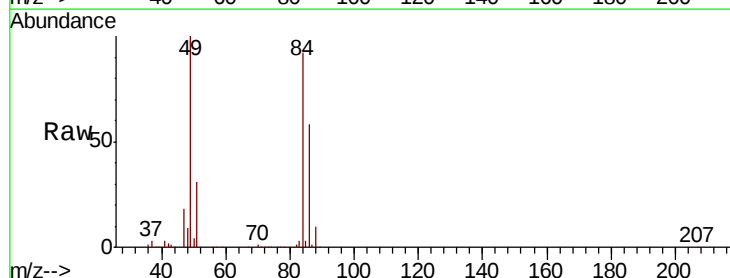
Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

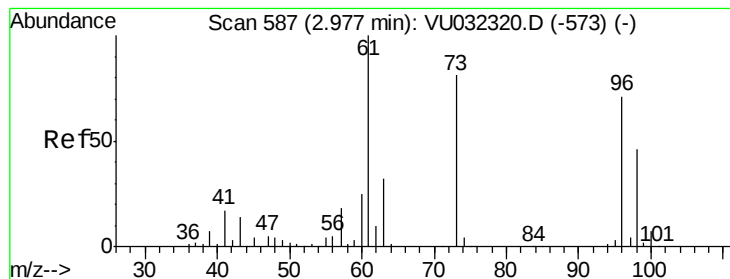
Tgt Ion: 43 Resp: 1204171
Ion Ratio Lower Upper
43 100
74 27.1 21.1 31.7



#16
Methylene chloride
Concen: 165.609 ug/L
RT: 2.69 min Scan# 498
Delta R.T. -0.01 min
Lab File: VU032322.D
Acq: 28 May 2019 12:36

Tgt Ion: 84 Resp: 1208617
Ion Ratio Lower Upper
84 100
86 63.5 45.0 83.6
49 108.7 75.9 140.9





#17

trans-1,2-Dichloroethene

Concen: 182.790 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

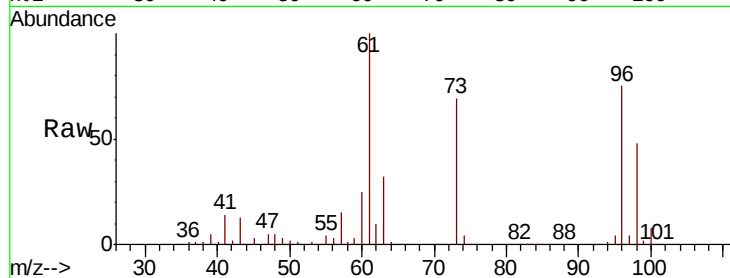
Tgt Ion: 96 Resp: 1111796

Ion Ratio Lower Upper

96 100

61 134.1 98.2 182.4

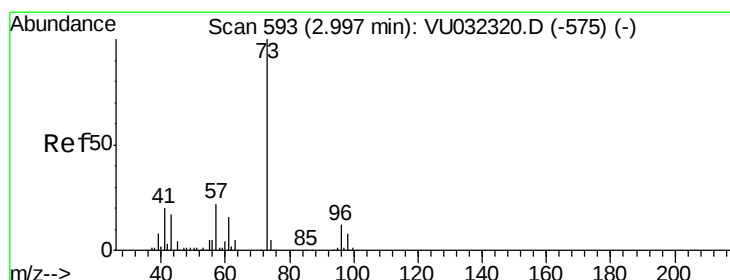
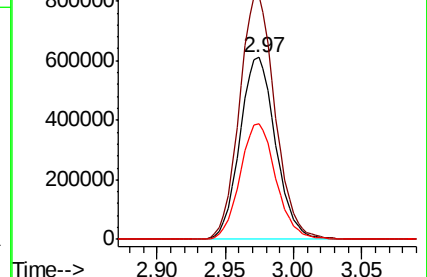
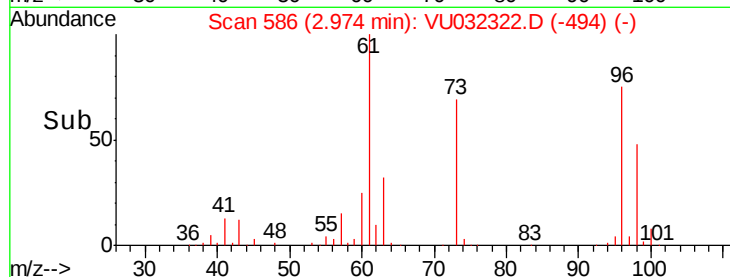
98 63.8 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU032322.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032322.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032322.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 171.950 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

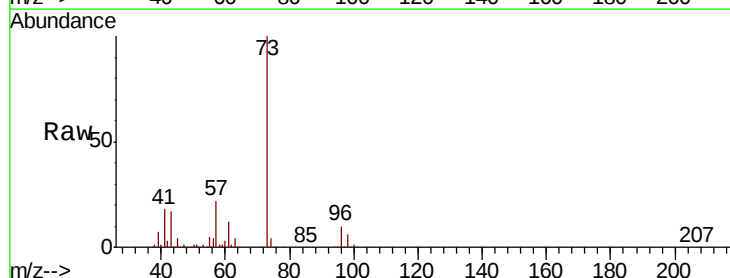
Tgt Ion: 73 Resp: 3498962

Ion Ratio Lower Upper

73 100

43 17.1 13.7 20.5

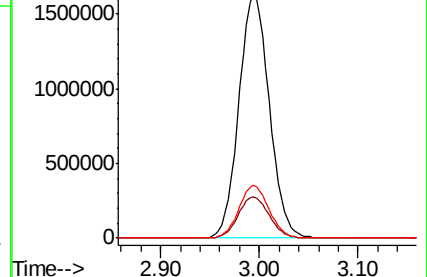
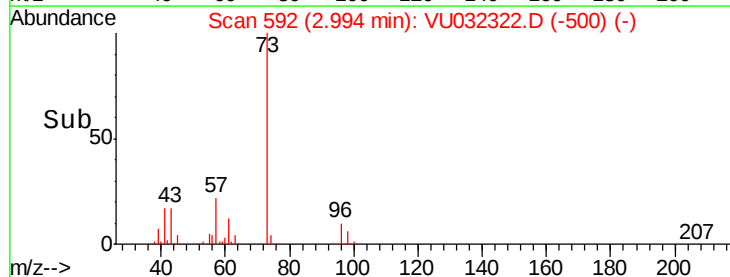
57 21.4 17.2 25.8

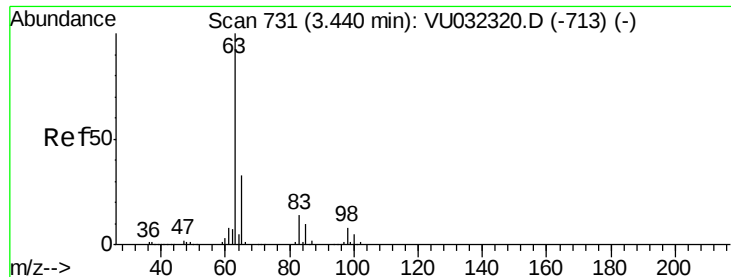


Abundance Ion 73.00 (72.70 to 73.70): VU032322.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU032322.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU032322.D (-500) (-)

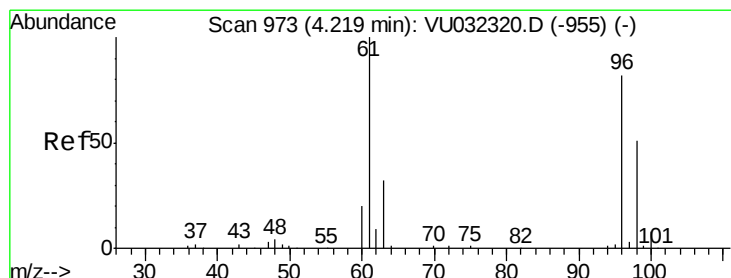
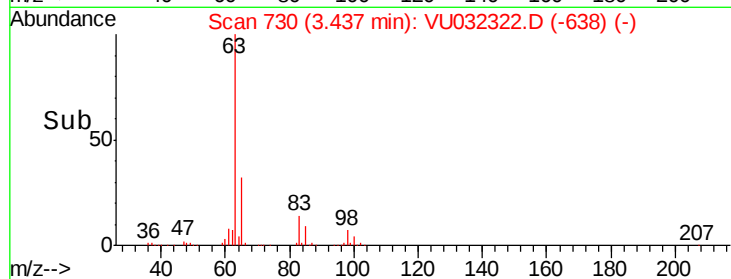
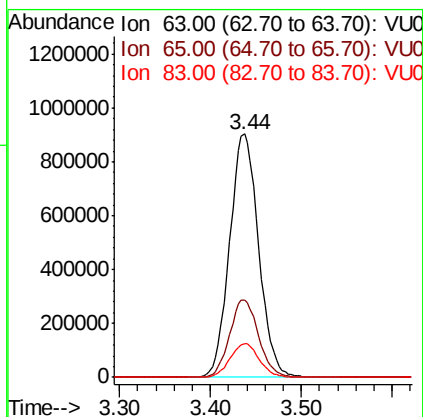
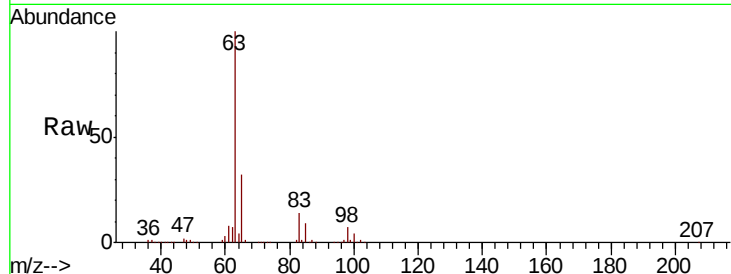




#19
 1,1-Dichloroethane
 Concen: 183.384 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

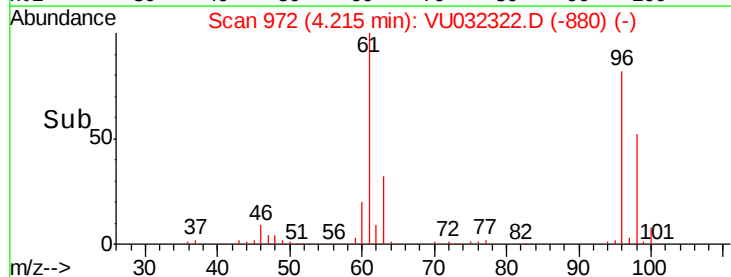
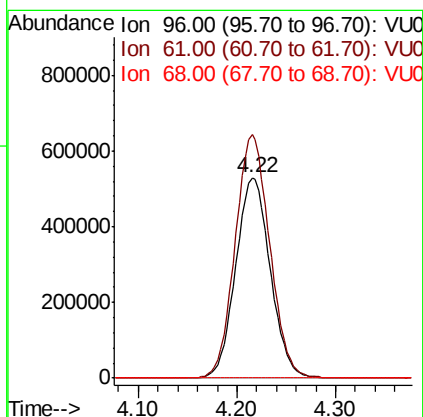
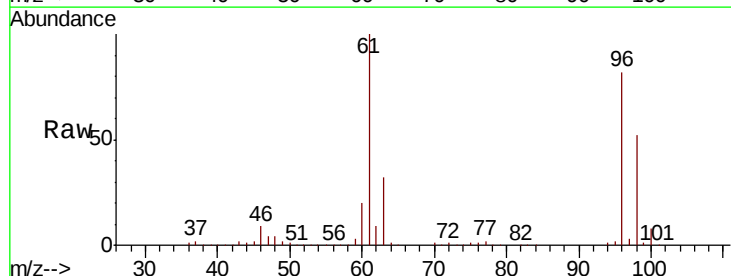
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

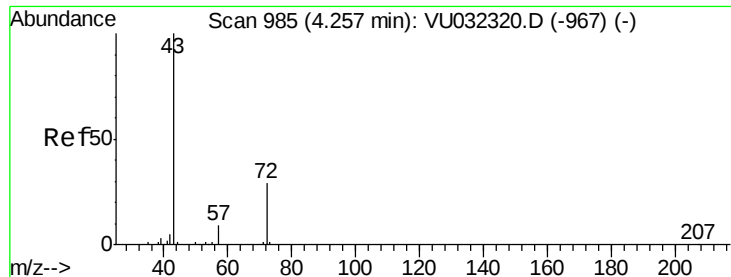
Tgt Ion: 63 Resp: 1998247
 Ion Ratio Lower Upper
 63 100
 65 31.8 23.2 43.0
 83 14.0 9.9 18.5



#20
 cis-1,2-Dichloroethene
 Concen: 180.494 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Tgt Ion: 96 Resp: 1283498
 Ion Ratio Lower Upper
 96 100
 61 121.4 85.6 159.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 402.776 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

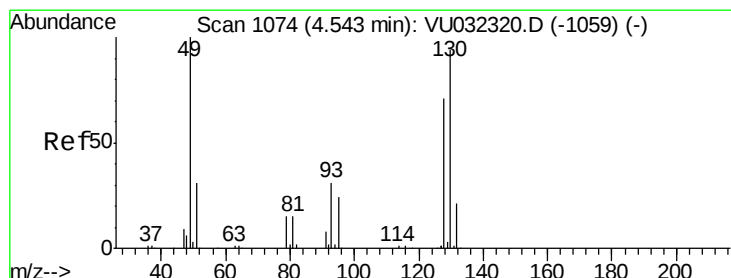
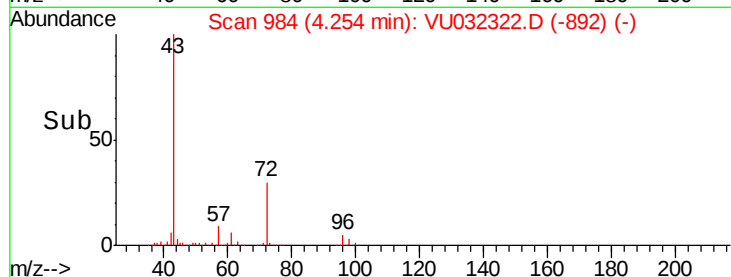
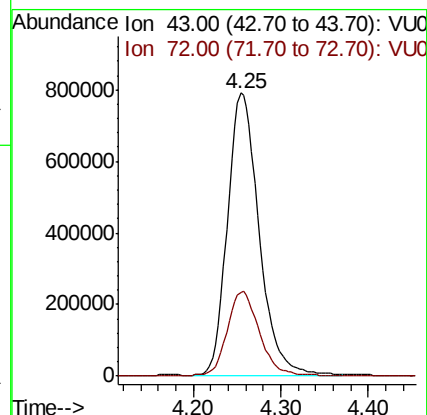
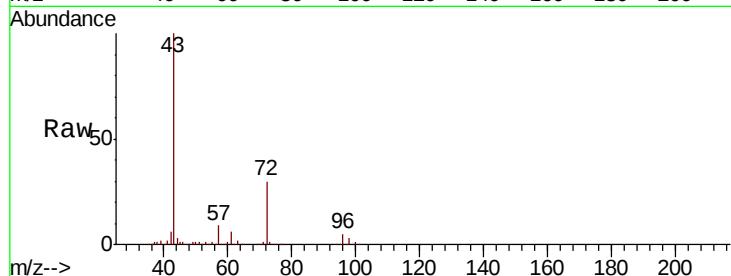
VSTD20057

Tgt Ion: 43 Resp: 1971367

Ion Ratio Lower Upper

43 100

72 30.9 15.3 45.8



#23

Bromochloromethane

Concen: 166.249 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Tgt Ion: 128 Resp: 647918

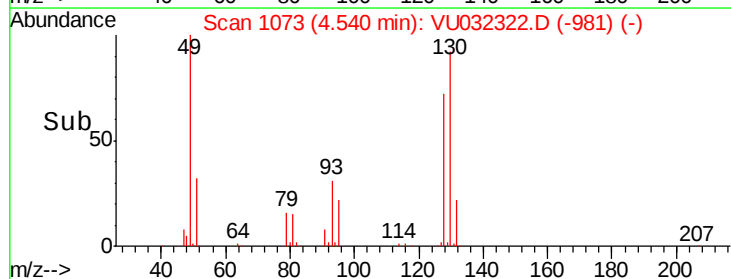
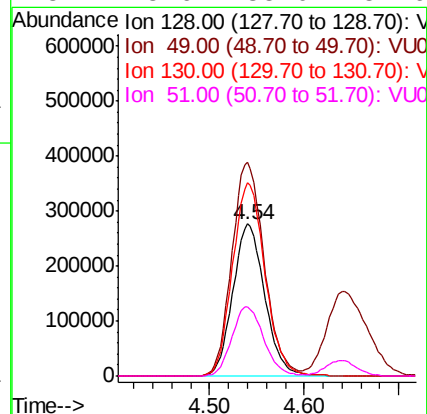
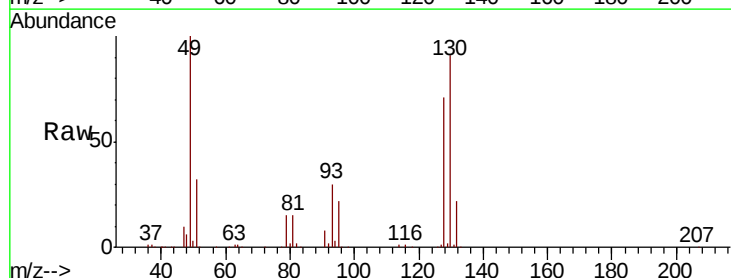
Ion Ratio Lower Upper

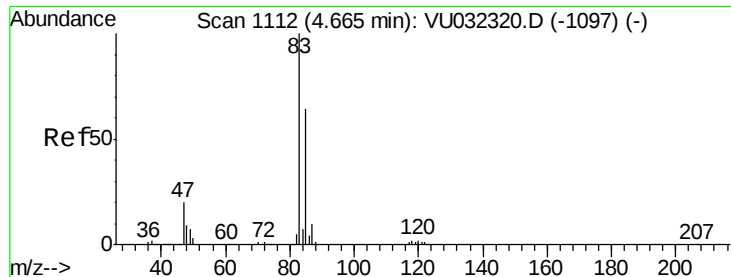
128 100

49 140.5 98.8 183.6

130 127.4 92.3 171.5

51 45.6 35.0 52.6





#25

Chloroform

Concen: 172.328 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

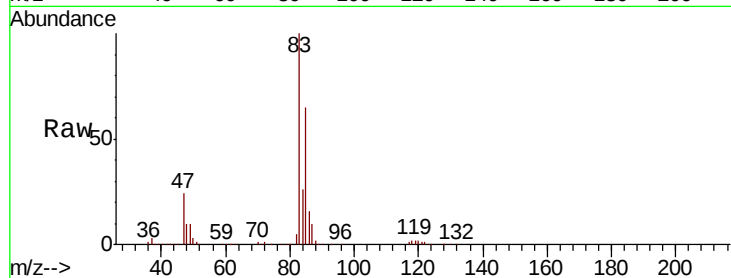
VSTD20057

Tgt Ion: 83 Resp: 2069183

Ion Ratio Lower Upper

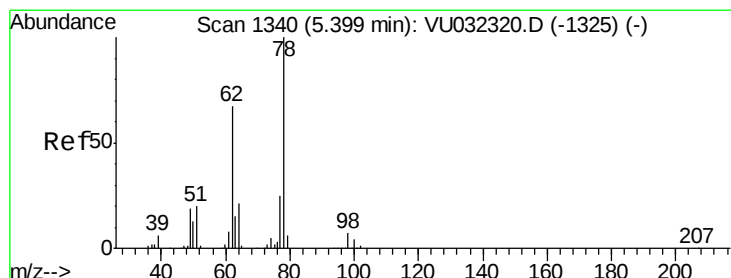
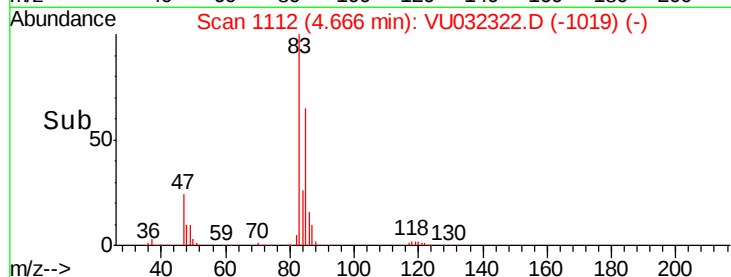
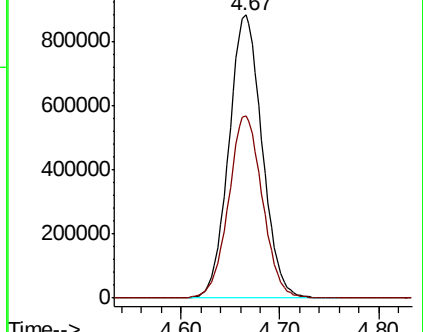
83 100

85 64.6 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU032322.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU032322.D (-1097) (-)



#27

1,2-Dichloroethane

Concen: 169.080 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU032322.D

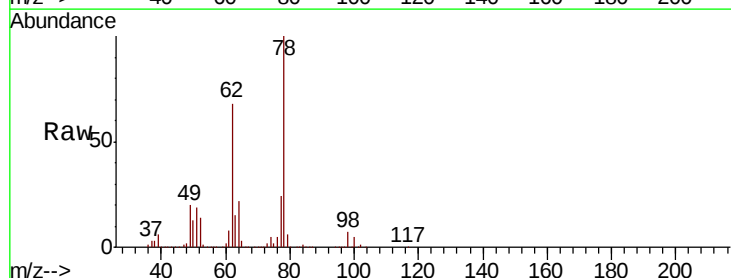
Acq: 28 May 2019 12:36

Tgt Ion: 62 Resp: 1574630

Ion Ratio Lower Upper

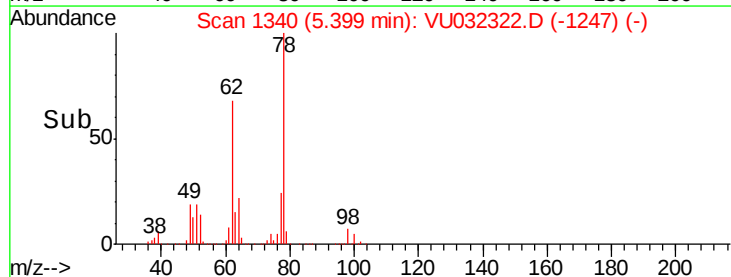
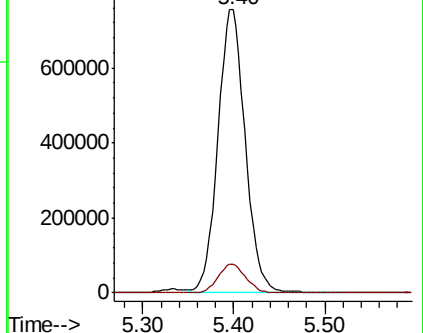
62 100

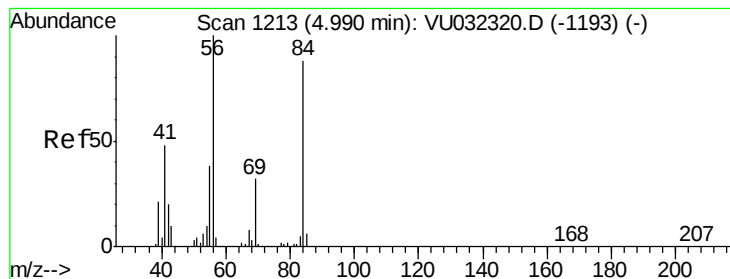
98 10.2 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU032322.D (-1247) (-)

Ion 98.00 (97.70 to 98.70): VU032322.D (-1247) (-)





#29

Cyclohexane

Concen: 245.537 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

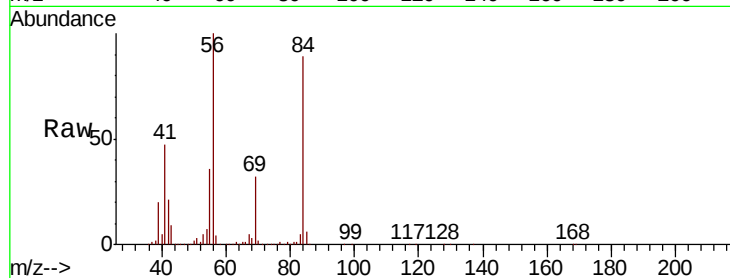
Tgt Ion: 56 Resp: 1869758

Ion Ratio Lower Upper

56 100

69 31.7 25.6 38.4

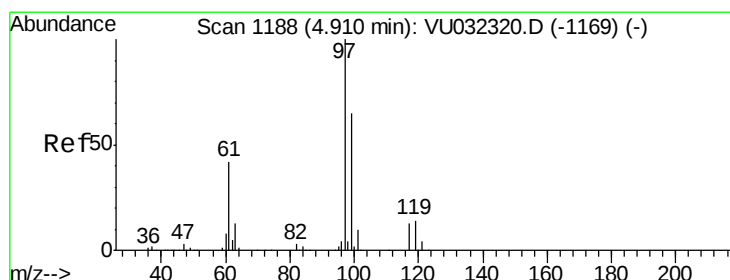
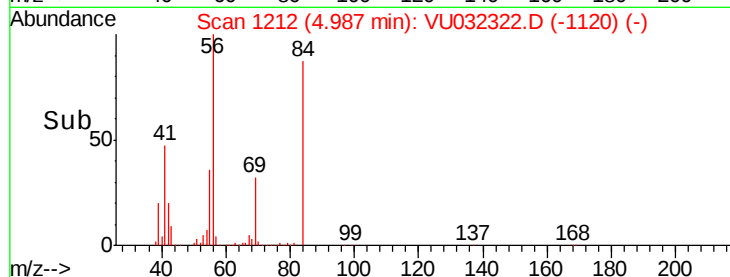
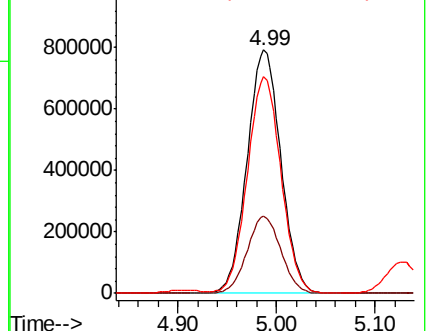
84 89.0 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VU032322.D (-1193) (-)

Ion 69.00 (68.70 to 69.70): VU032322.D (-1193) (-)

Ion 84.00 (83.70 to 84.70): VU032322.D (-1193) (-)



#30

1,1,1-Trichloroethane

Concen: 190.874 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

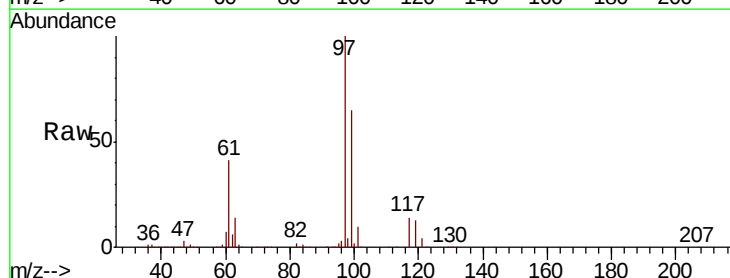
Tgt Ion: 97 Resp: 1743175

Ion Ratio Lower Upper

97 100

99 64.5 51.4 77.0

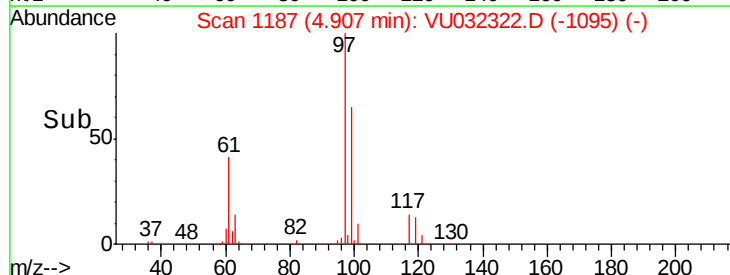
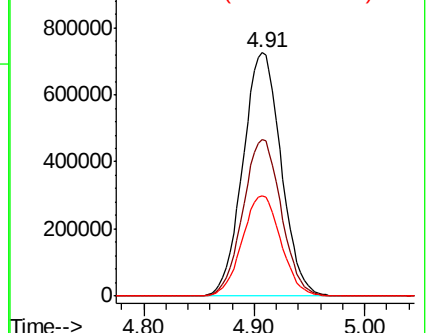
61 41.7 33.7 50.5

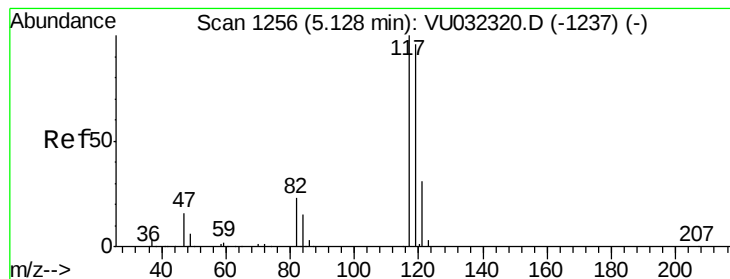


Abundance Ion 97.00 (96.70 to 97.70): VU032322.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU032322.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032322.D (-1169) (-)





#31

Carbon tetrachloride

Concen: 201.442 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

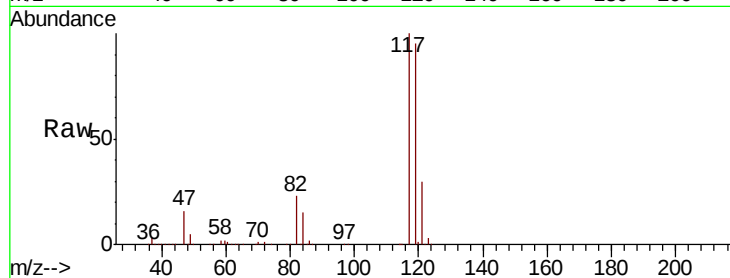
VSTD20057

Tgt Ion:117 Resp: 1521789

Ion Ratio Lower Upper

117 100

119 96.3 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

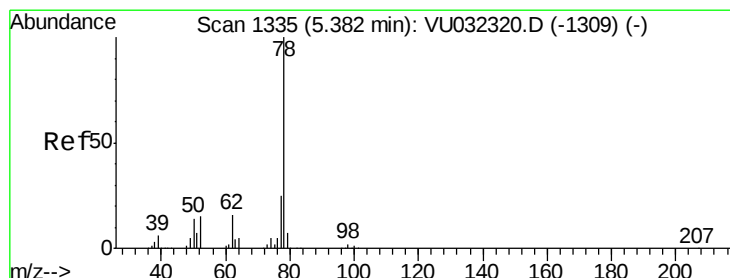
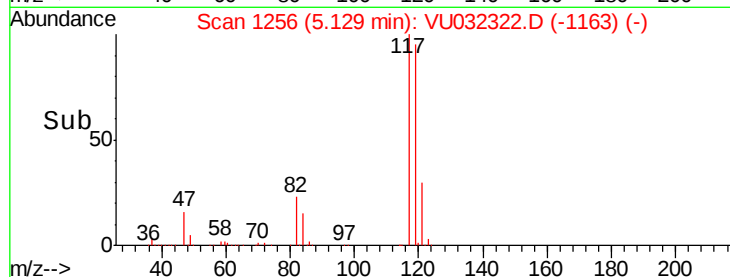
600000

400000

200000

0

Time--> 5.00 5.10 5.20



#33

Benzene

Concen: 183.004 ug/L

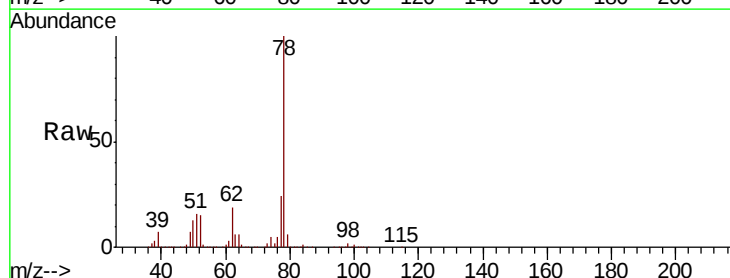
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Tgt Ion: 78 Resp: 4750163



Abundance Ion 78.00 (77.70 to 78.70): VU0

2500000

2000000

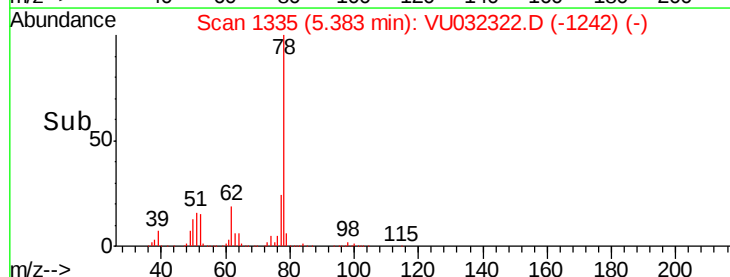
1500000

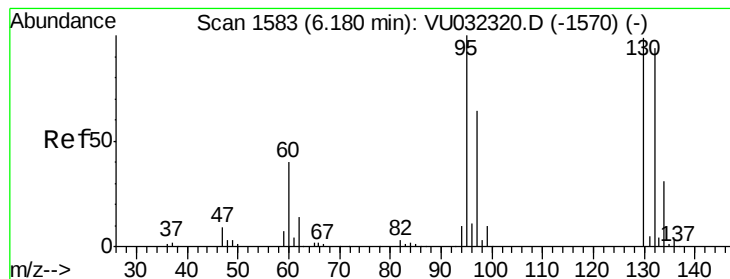
1000000

500000

0

Time--> 5.20 5.30 5.40 5.50





#34

Trichloroethene

Concen: 189.573 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

Tgt Ion: 95 Resp: 1231722

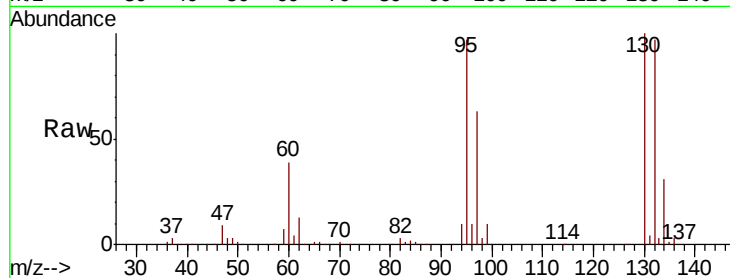
Ion Ratio Lower Upper

95 100

97 64.9 44.8 83.2

132 100.6 66.2 123.0

130 103.4 69.4 128.8

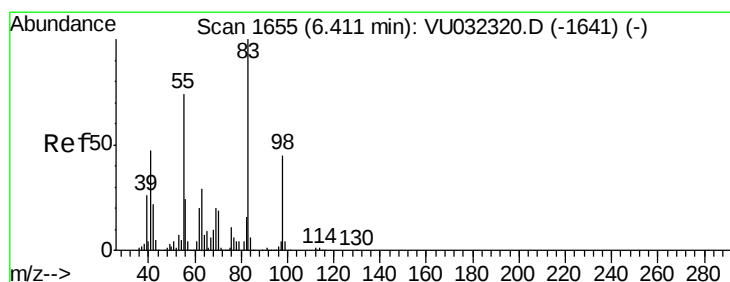
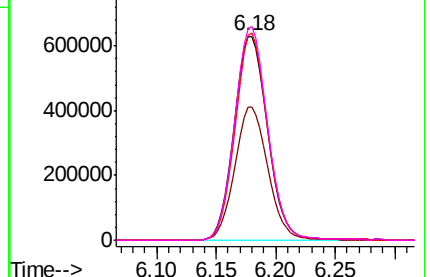
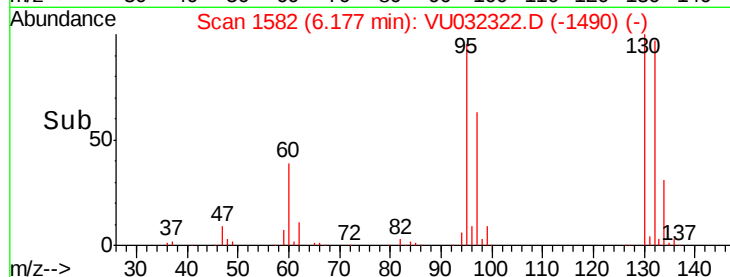


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 246.040 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

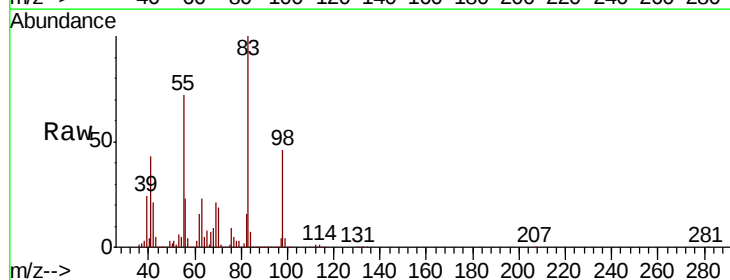
Tgt Ion: 83 Resp: 2028402

Ion Ratio Lower Upper

83 100

55 72.7 59.4 89.0

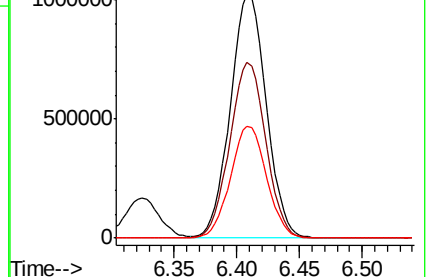
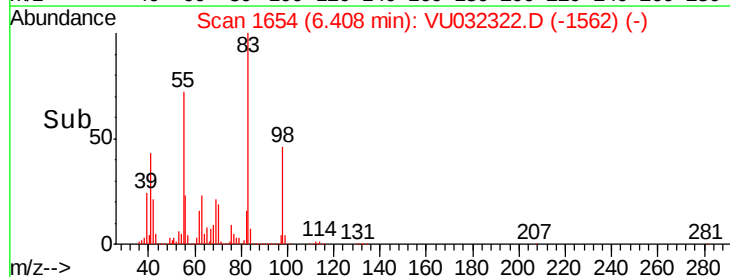
98 46.2 37.1 55.7

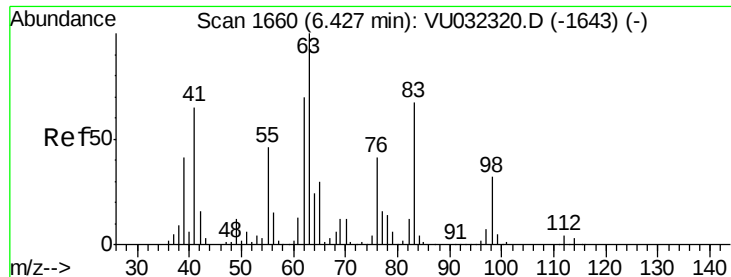


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 182.126 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

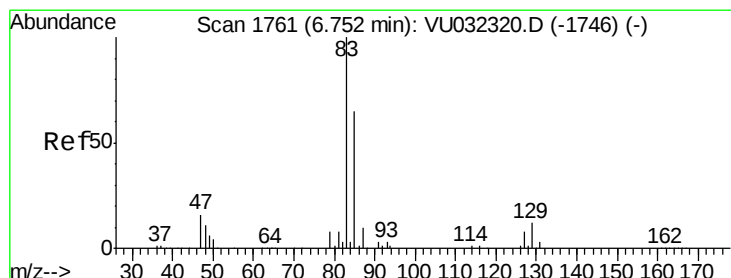
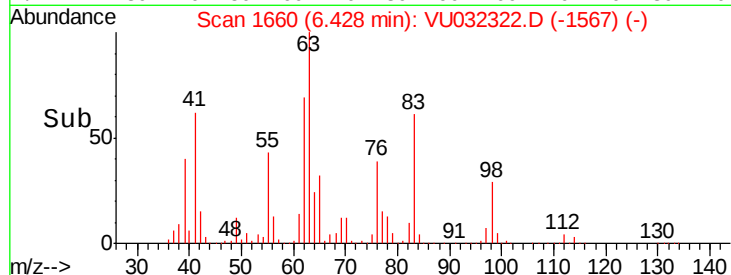
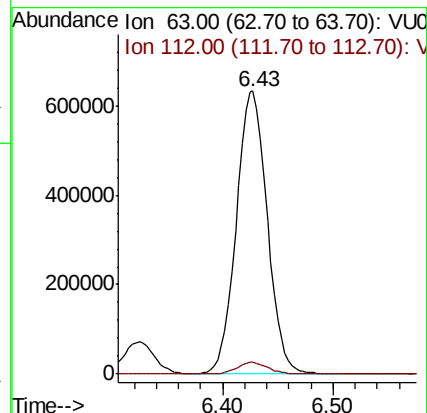
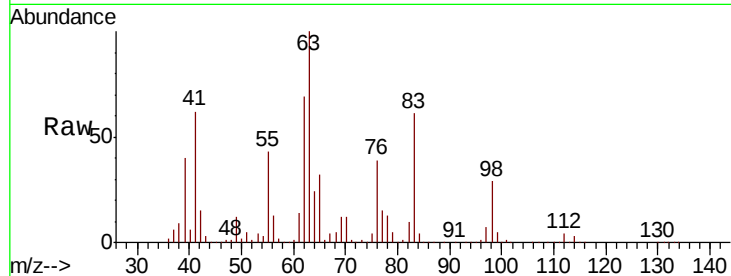
VSTD20057

Tgt Ion: 63 Resp: 1227981

Ion Ratio Lower Upper

63 100

112 4.2 3.3 4.9



#38

Bromodichloromethane

Concen: 174.529 ug/L

RT: 6.75 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

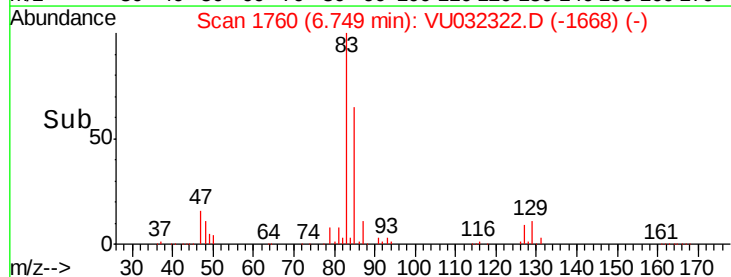
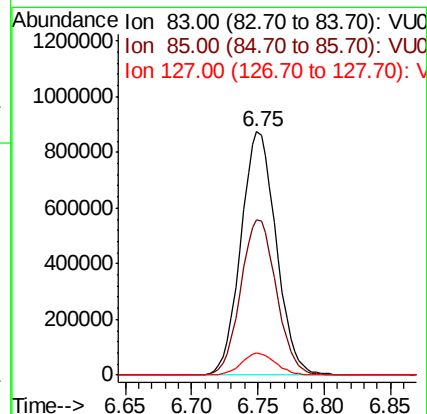
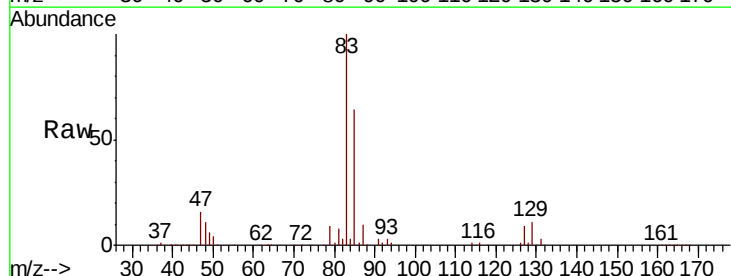
Tgt Ion: 83 Resp: 1617042

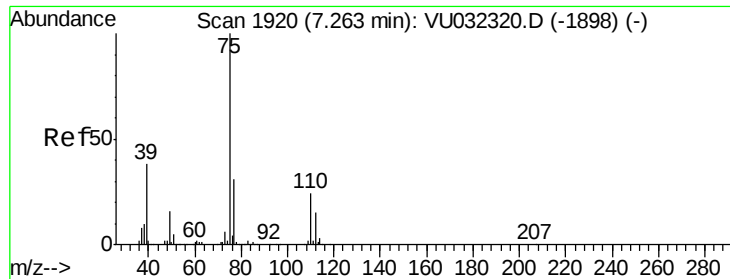
Ion Ratio Lower Upper

83 100

85 64.0 45.4 84.2

127 8.9 6.4 9.6

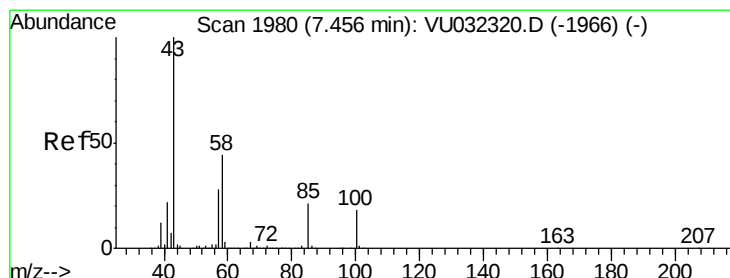
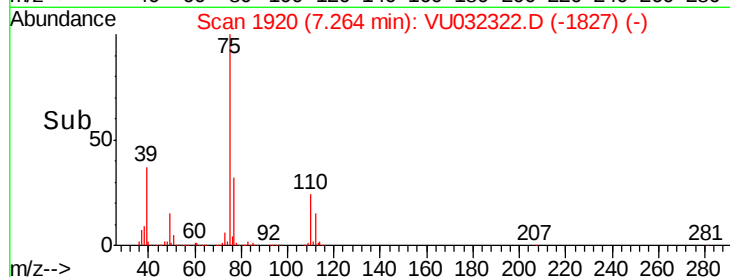
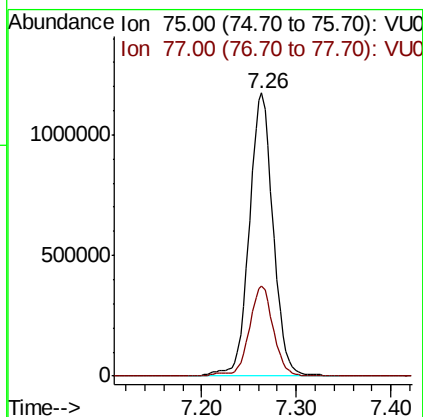
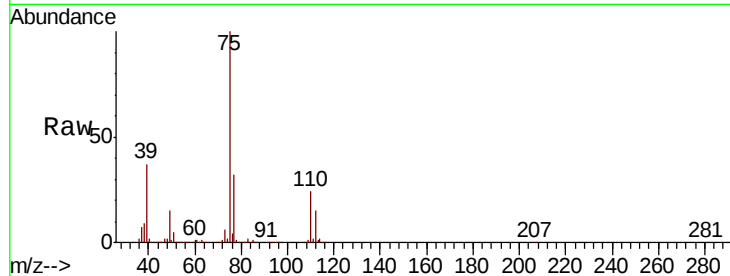




#39
 cis-1,3-Dichloropropene
 Concen: 207.375 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

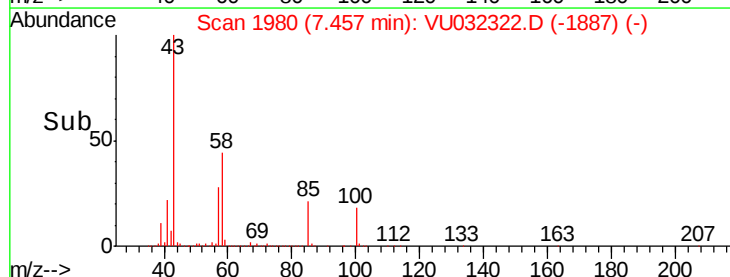
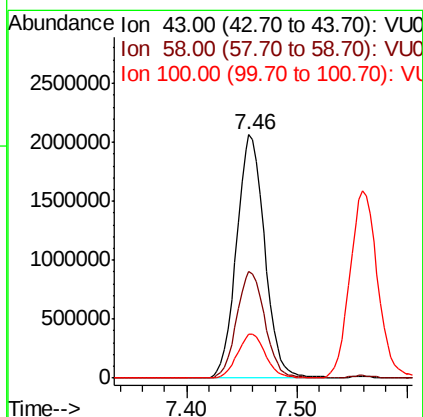
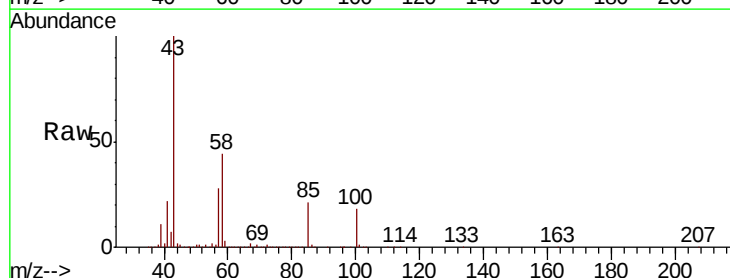
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

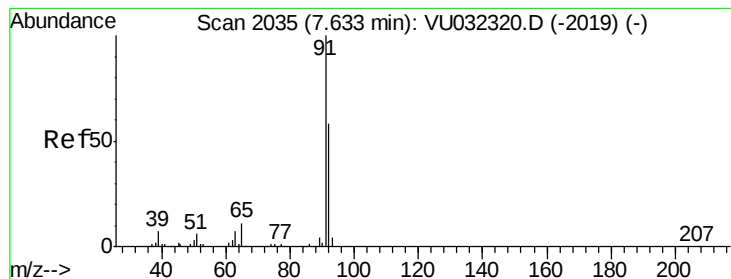
Tgt Ion: 75 Resp: 2057009
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 394.292 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Tgt Ion: 43 Resp: 3646732
 Ion Ratio Lower Upper
 43 100
 58 44.0 34.6 52.0
 100 18.1 14.1 21.1





#42

Toluene

Concen: 196.152 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

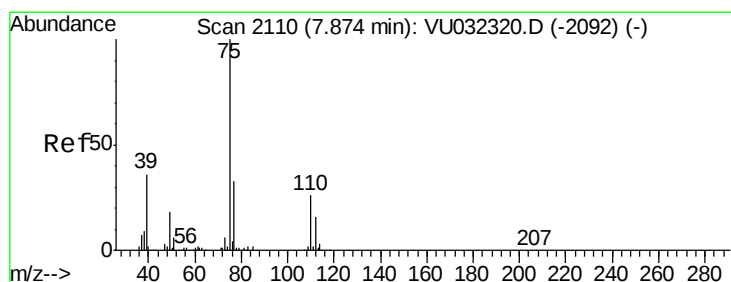
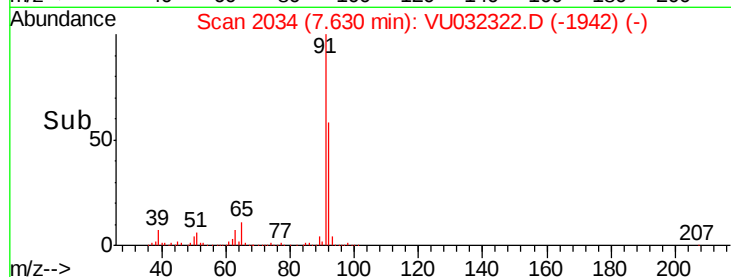
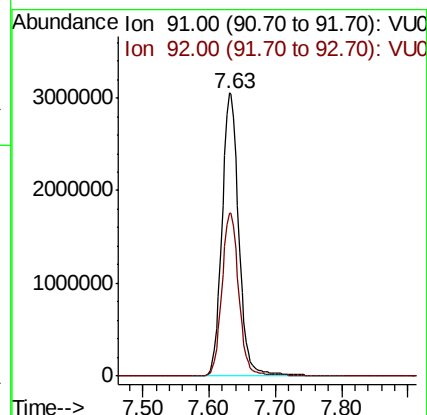
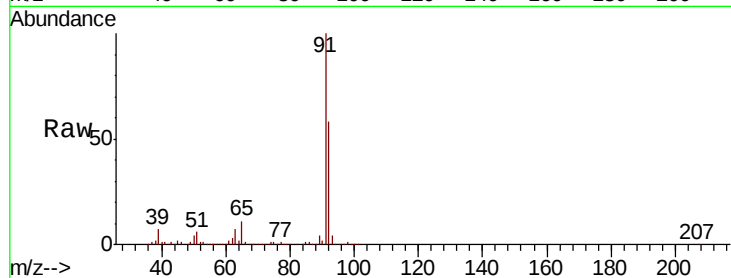
VSTD20057

Tgt Ion: 91 Resp: 5388937

Ion Ratio Lower Upper

91 100

92 57.6 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 208.474 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032322.D

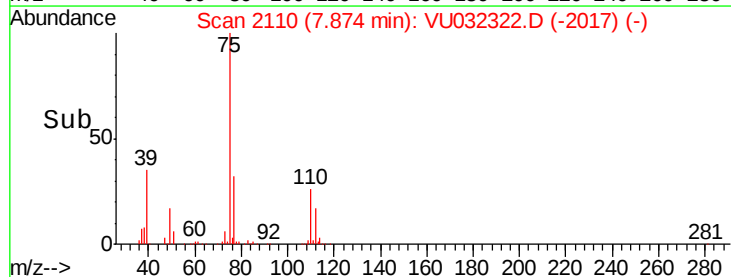
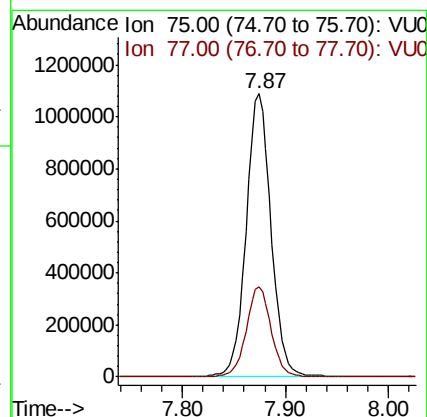
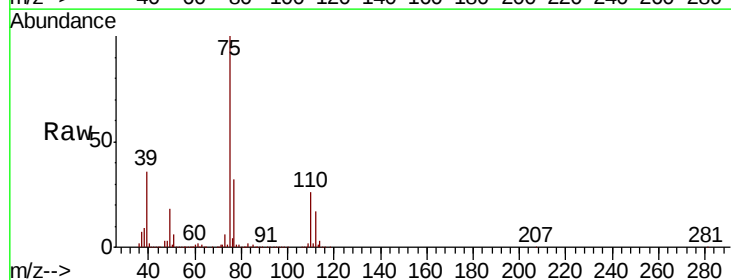
Acq: 28 May 2019 12:36

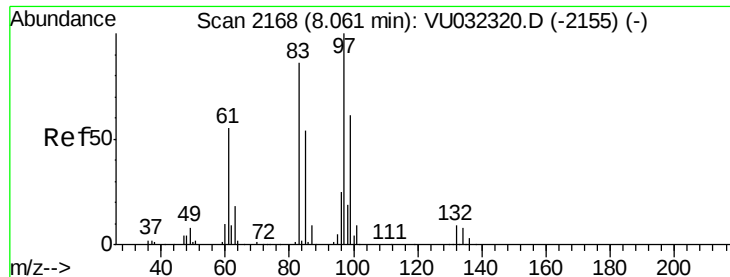
Tgt Ion: 75 Resp: 1821349

Ion Ratio Lower Upper

75 100

77 31.8 23.0 42.6



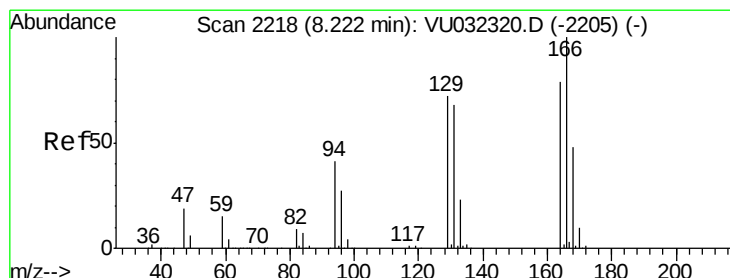
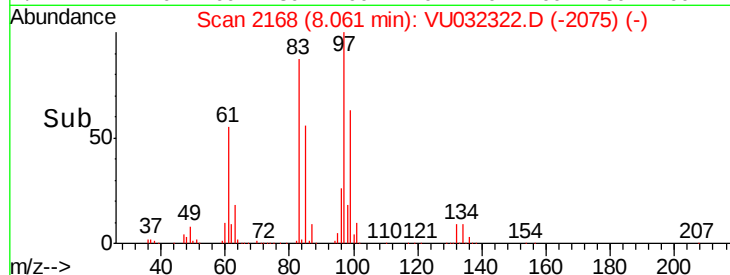
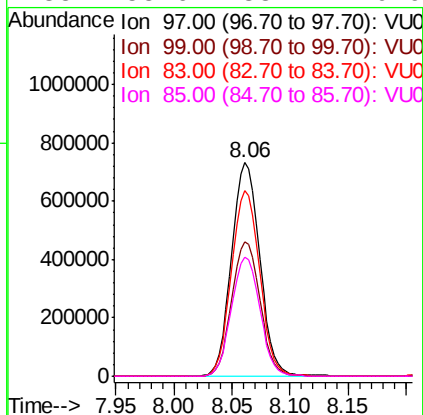
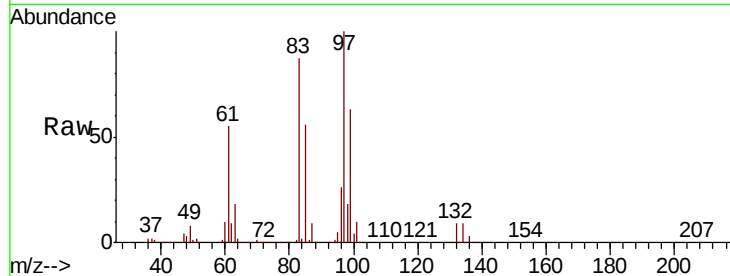


#45
 1,1,2-Trichloroethane
 Concen: 169.435 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20057

Tgt Ion: 97 Resp: 1238248

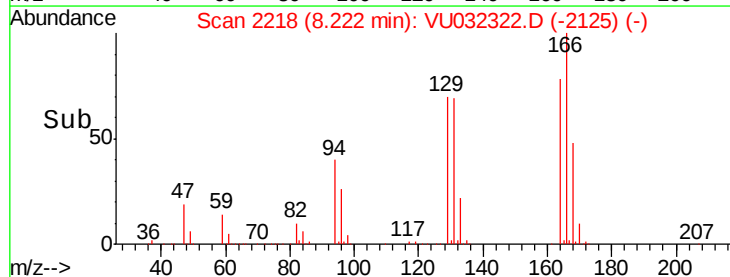
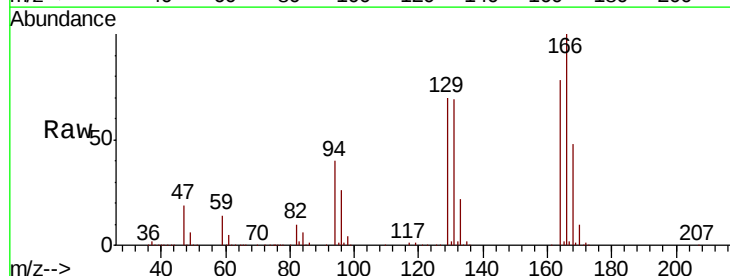
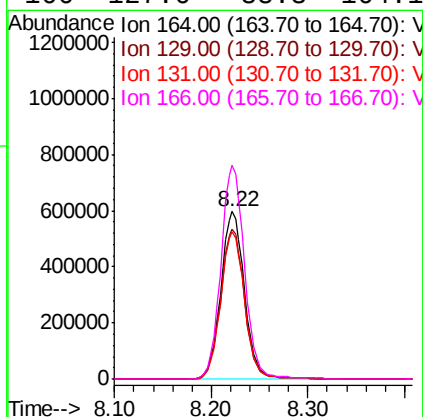
Ion	Ratio	Lower	Upper
97	100		
99	63.2	42.6	79.0
83	86.7	60.3	112.1
85	55.6	38.1	70.9

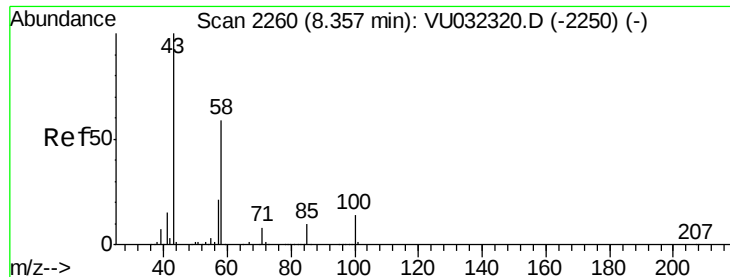


#46
 Tetrachloroethene
 Concen: 204.089 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Tgt Ion: 164 Resp: 1011758

Ion	Ratio	Lower	Upper
164	100		
129	89.7	63.9	118.7
131	87.9	60.4	112.2
166	127.6	88.3	164.1



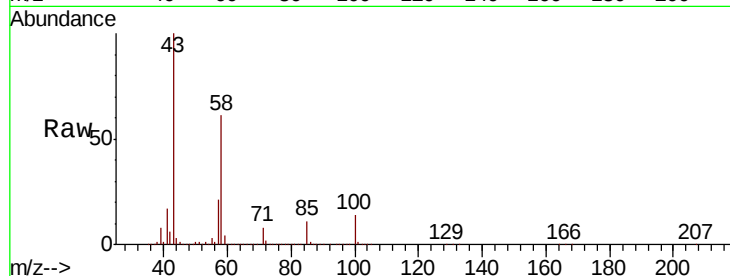


#48
2-Hexanone
Concen: 412.701 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032322.D
Acq: 28 May 2019 12:36

Instrument :
MSVOA_U
ClientSampled :
VSTD20057

Tgt Ion: 43 Resp: 2998368

Ion	Ratio	Lower	Upper
43	100		
58	61.5	48.6	73.0
57	21.3	17.0	25.4
100	13.8	11.0	16.4

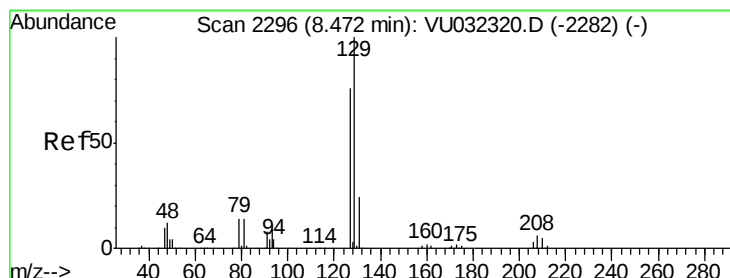
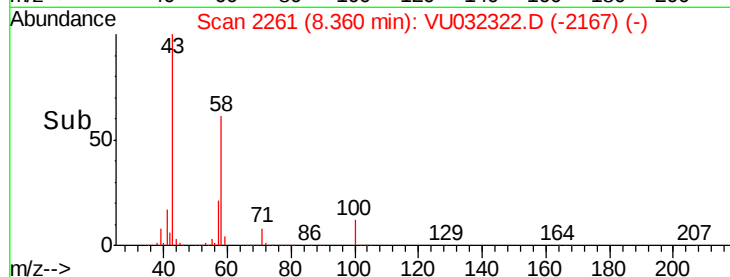
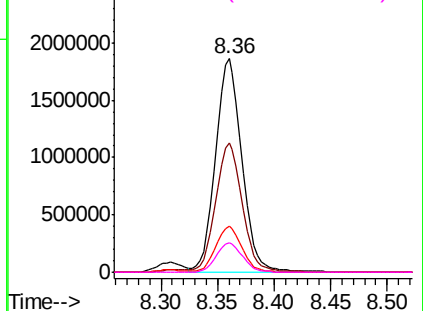


Abundance Ion 43.00 (42.70 to 43.70): VU032322.D (-2260) (-)

Ion 58.00 (57.70 to 58.70): VU032322.D (-2260) (-)

Ion 57.00 (56.70 to 57.70): VU032322.D (-2260) (-)

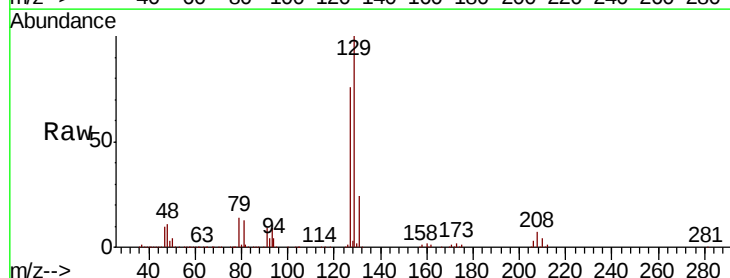
Ion 100.00 (99.70 to 100.70): VU032322.D (-2260) (-)



#49
Dibromochloromethane
Concen: 182.891 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032322.D
Acq: 28 May 2019 12:36

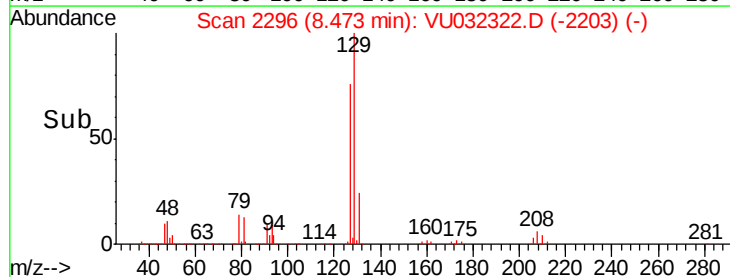
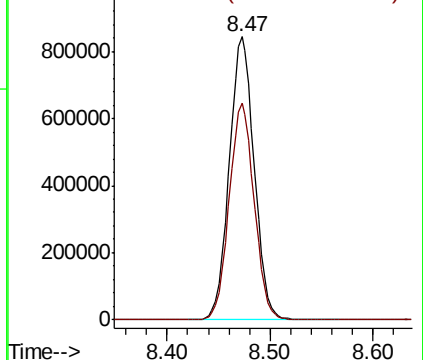
Tgt Ion: 129 Resp: 1421192

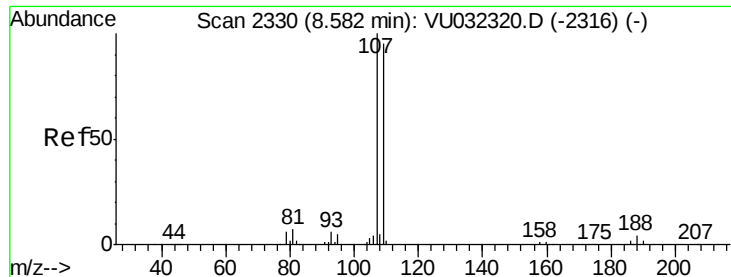
Ion	Ratio	Lower	Upper
129	100		
127	76.4	53.3	99.1



Abundance Ion 129.00 (128.70 to 129.70): VU032322.D (-2295) (-)

Ion 127.00 (126.70 to 127.70): VU032322.D (-2295) (-)

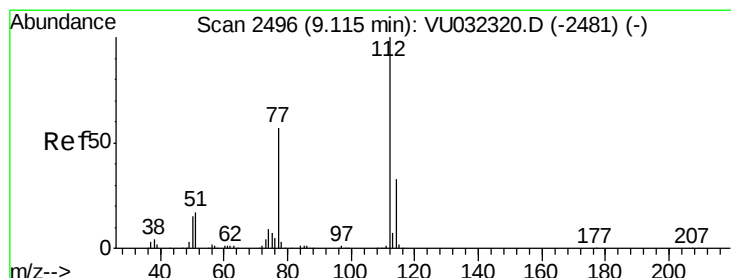
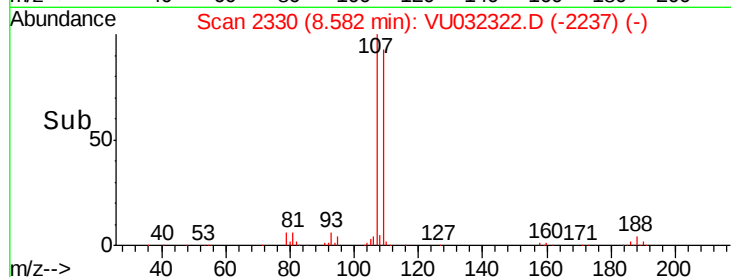
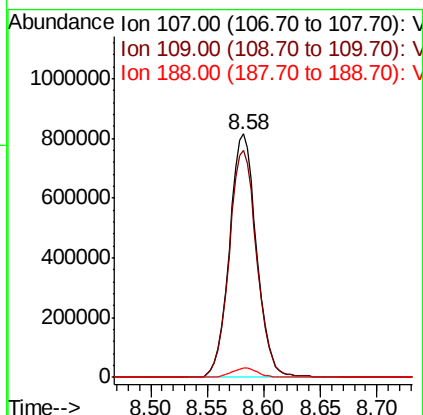
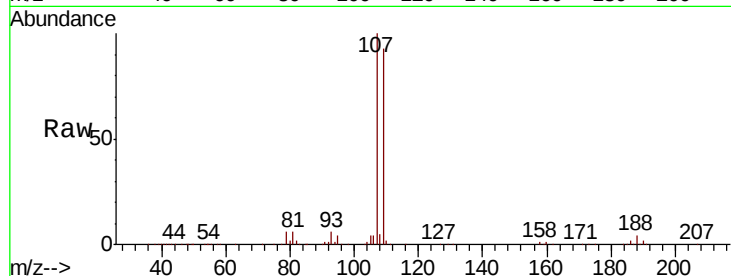




#50
1,2-Dibromoethane
Concen: 173.040 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032322.D
Acq: 28 May 2019 12:36

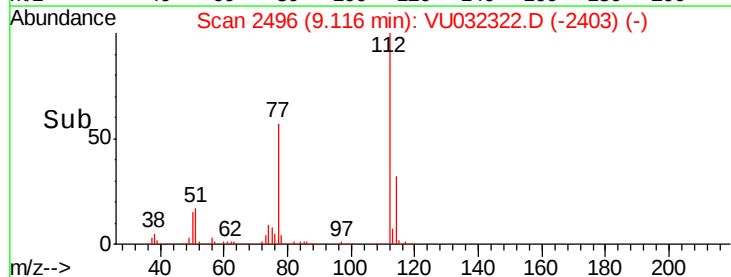
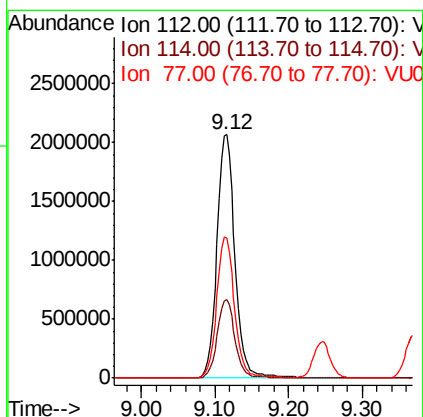
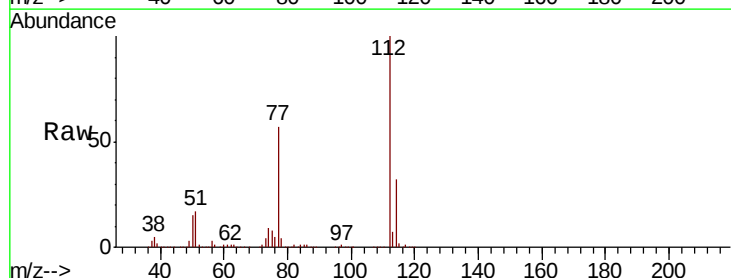
Instrument :
MSVOA_U
ClientSampleId :
VSTD20057

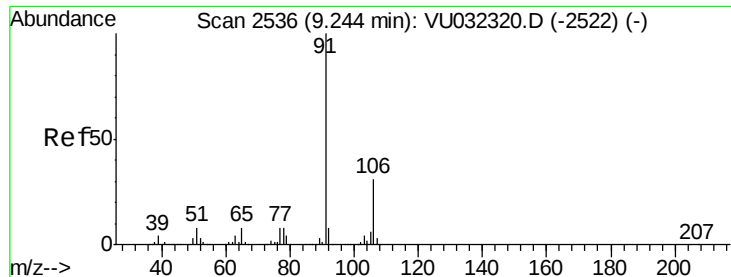
Tgt Ion:107 Resp: 1357520
Ion Ratio Lower Upper
107 100
109 93.2 66.7 123.9
188 3.8 3.0 4.6



#51
Chlorobenzene
Concen: 189.707 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032322.D
Acq: 28 May 2019 12:36

Tgt Ion:112 Resp: 3481418
Ion Ratio Lower Upper
112 100
114 32.2 22.9 42.5
77 57.3 45.8 68.8





#52

Ethylbenzene

Concen: 213.134 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

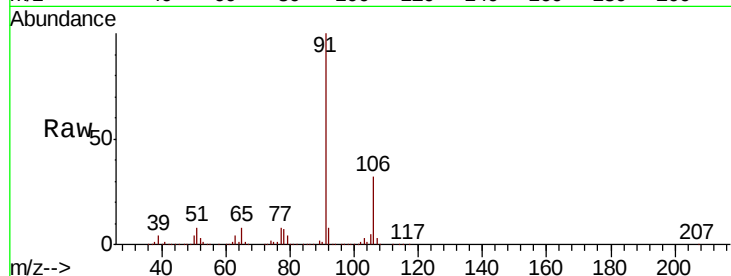
VSTD20057

Tgt Ion: 91 Resp: 6042875

Ion Ratio Lower Upper

91 100

106 31.5 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU032322.D (-2522) (-)

Ion 106.00 (105.70 to 106.70): VU032322.D (-2522) (-)

9.24

4000000

3000000

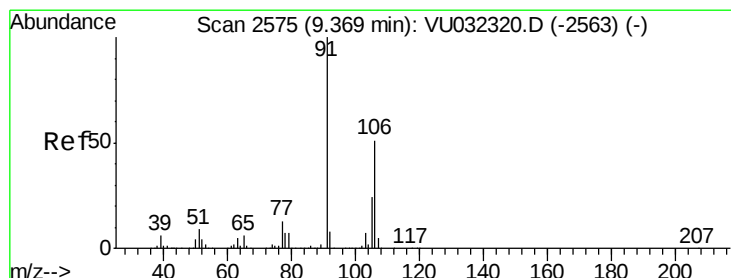
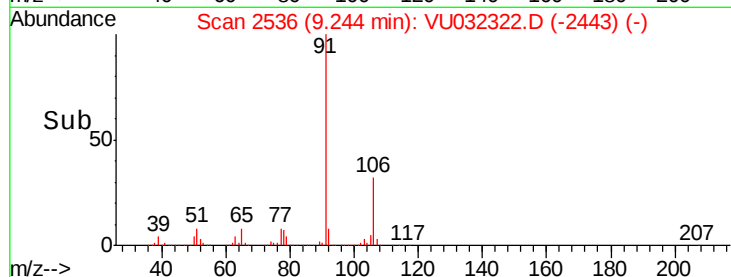
2000000

1000000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 215.467 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032322.D

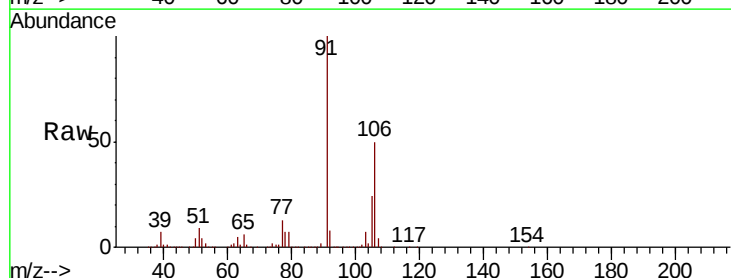
Acq: 28 May 2019 12:36

Tgt Ion: 106 Resp: 2358584

Ion Ratio Lower Upper

106 100

91 199.1 138.8 257.8



Abundance Ion 106.00 (105.70 to 106.70): VU032322.D (-2563) (-)

Ion 91.00 (90.70 to 91.70): VU032322.D (-2563) (-)

9.37

3000000

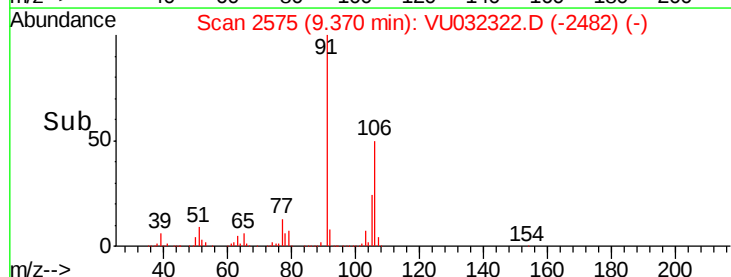
2000000

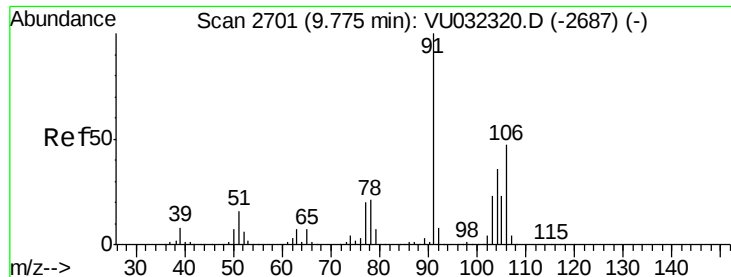
1000000

0

9.30 9.40 9.50

Time-->





#54

o-xylene

Concen: 209.275 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

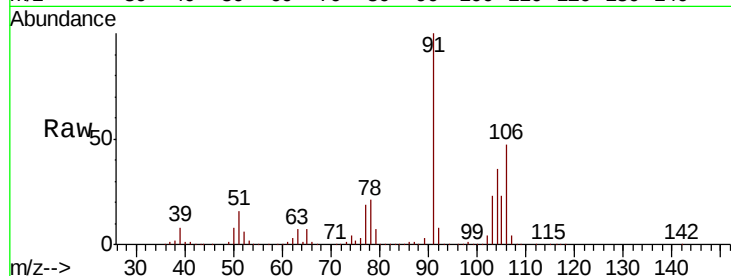
VSTD20057

Tgt Ion:106 Resp: 2364706

Ion Ratio Lower Upper

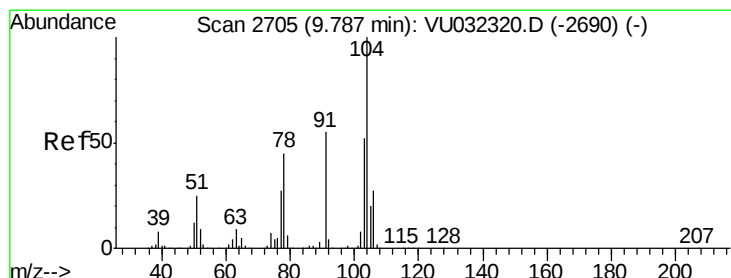
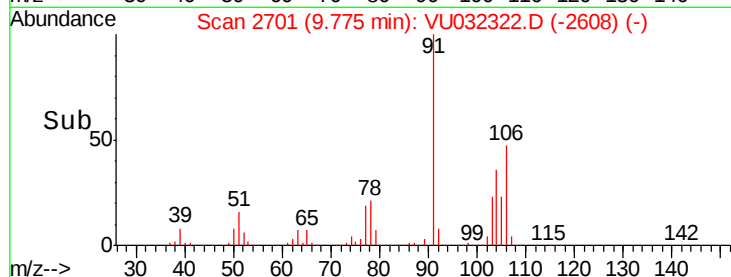
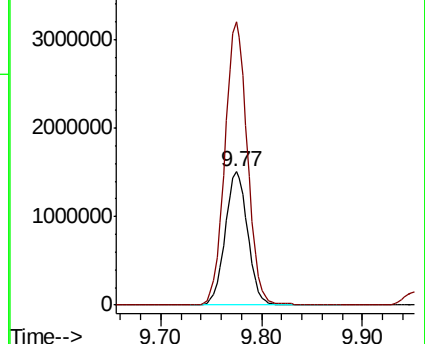
106 100

91 212.3 147.5 273.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 215.090 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032322.D

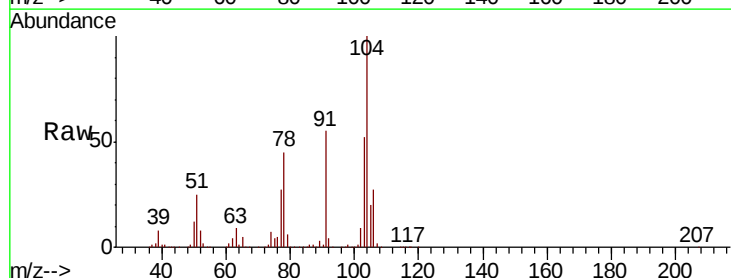
Acq: 28 May 2019 12:36

Tgt Ion:104 Resp: 4140647

Ion Ratio Lower Upper

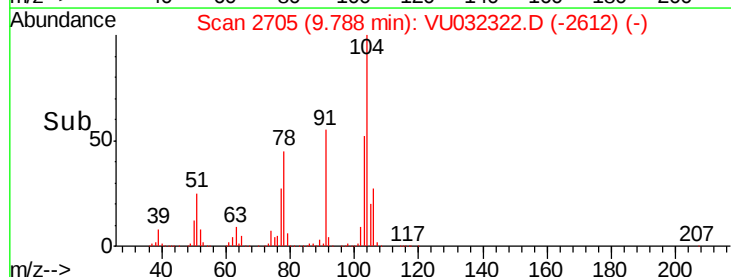
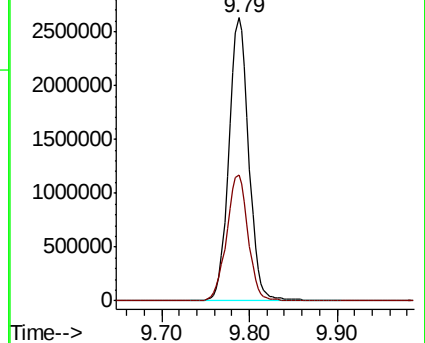
104 100

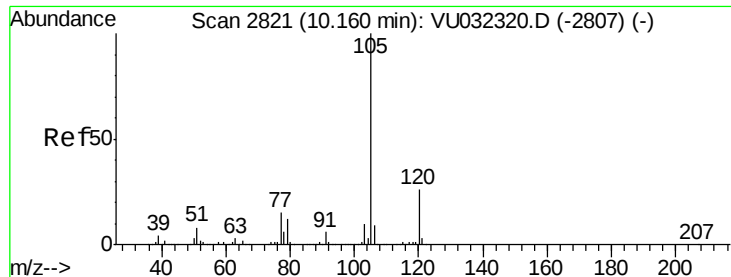
78 44.6 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 227.373 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

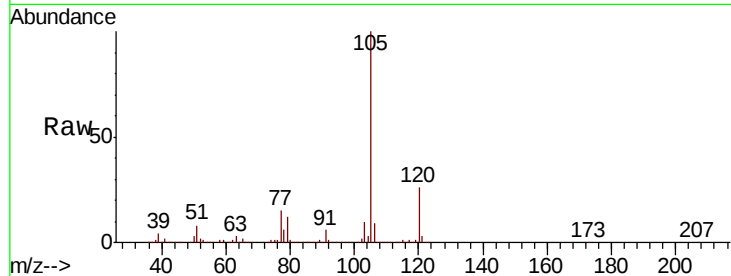
Tgt Ion:105 Resp: 6107977

Ion Ratio Lower Upper

105 100

120 26.5 21.0 31.4

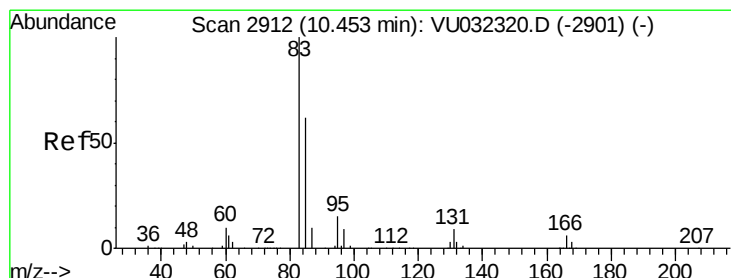
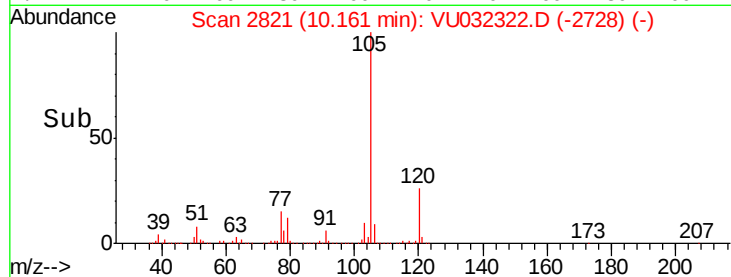
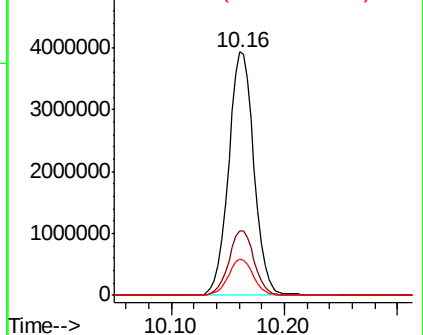
77 14.8 11.8 17.6



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: 179.389 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

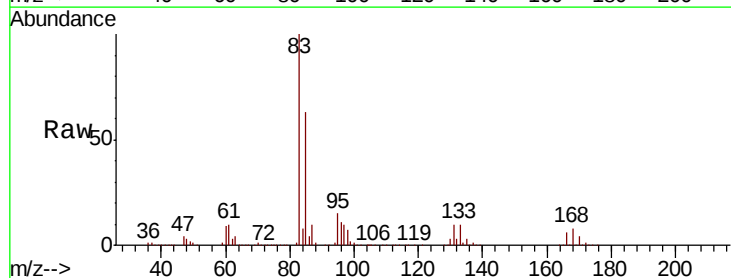
Tgt Ion: 83 Resp: 2232550

Ion Ratio Lower Upper

83 100

85 63.0 44.3 82.3

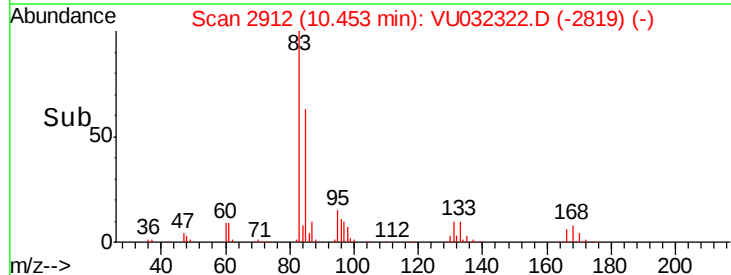
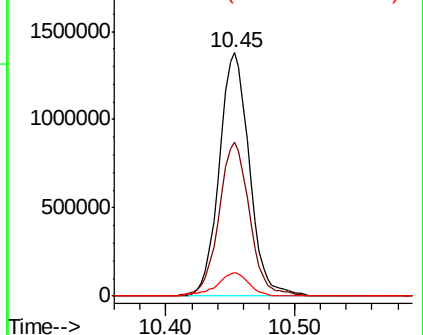
131 9.7 7.6 11.4

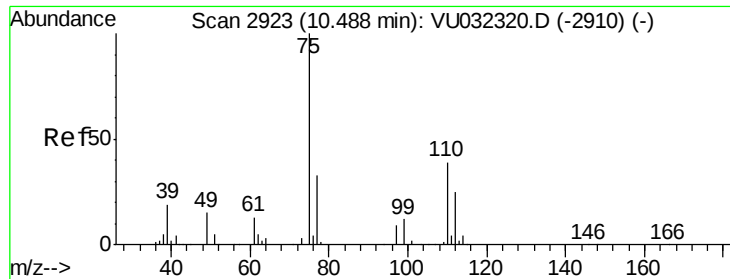


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 175.183 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

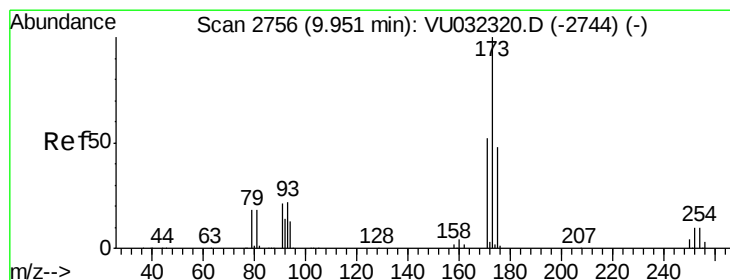
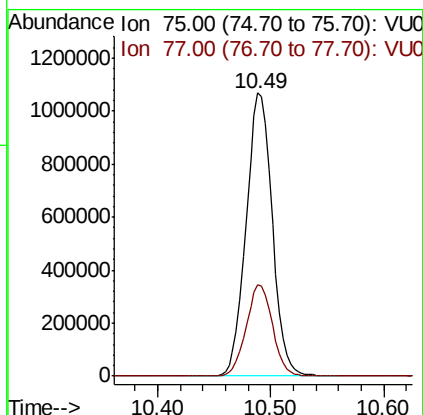
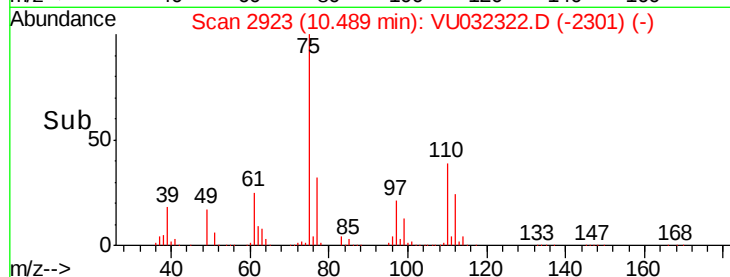
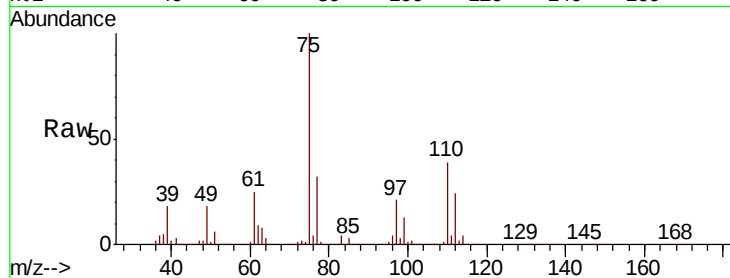
VSTD20057

Tgt Ion: 75 Resp: 1716855

Ion Ratio Lower Upper

75 100

77 32.6 25.8 38.8



#61

Bromoform

Concen: 165.345 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

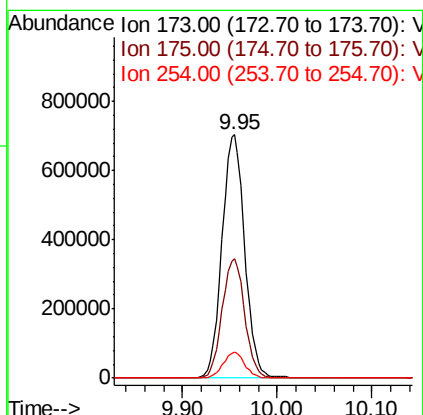
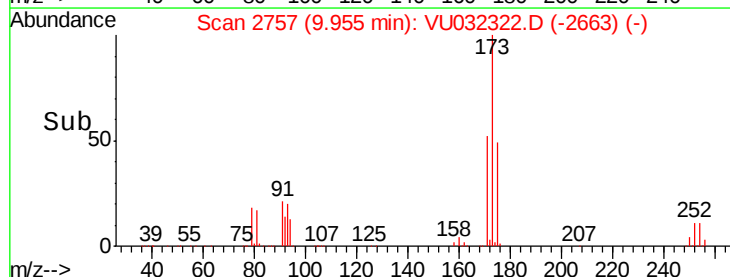
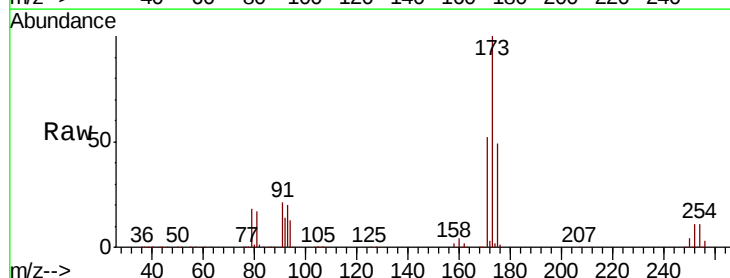
Tgt Ion: 173 Resp: 1171088

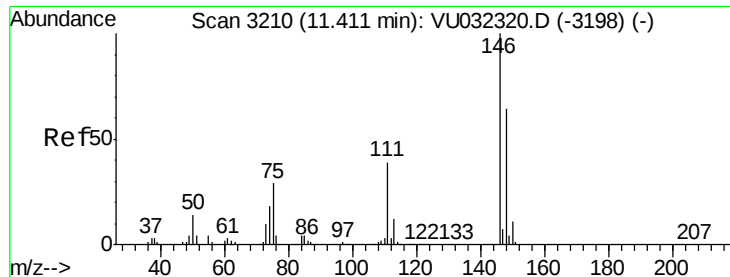
Ion Ratio Lower Upper

173 100

175 48.9 38.8 58.2

254 10.1 7.5 11.3

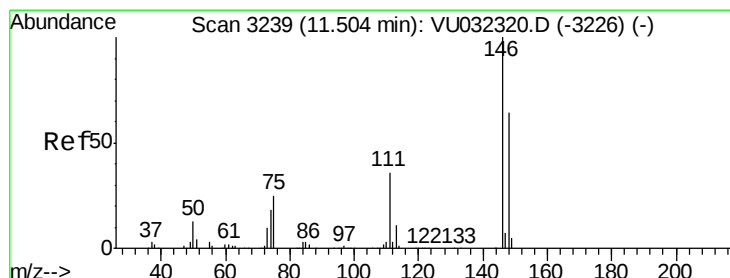
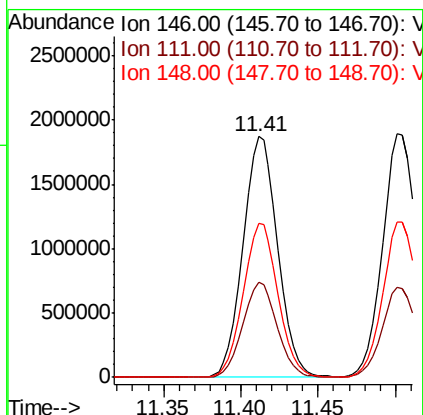
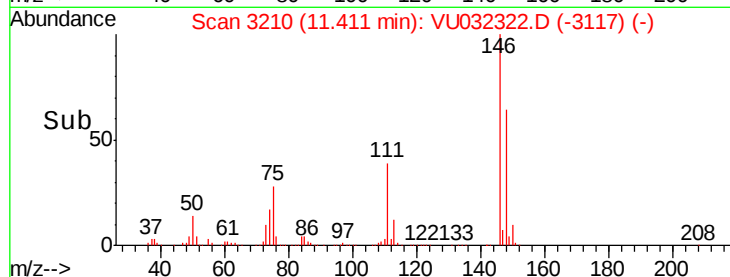
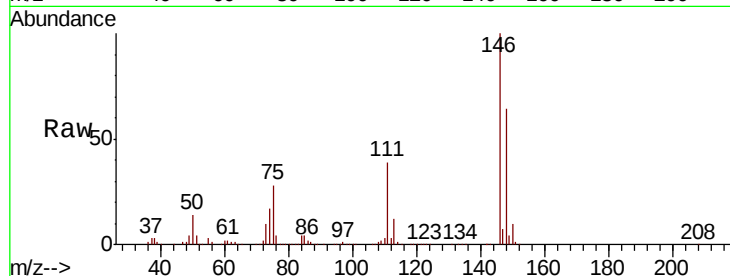




#62
 1,3-Dichlorobenzene
 Concen: 188.989 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

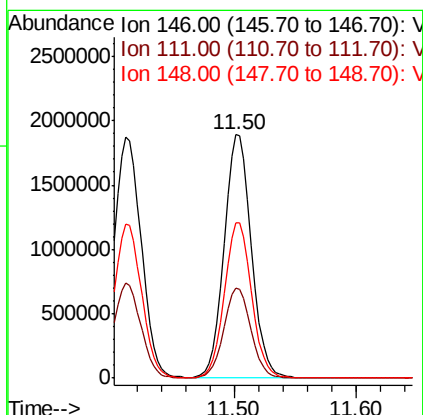
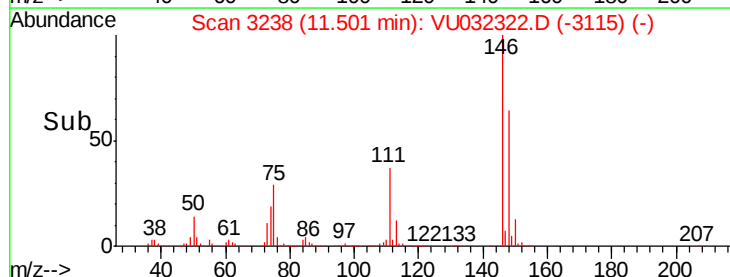
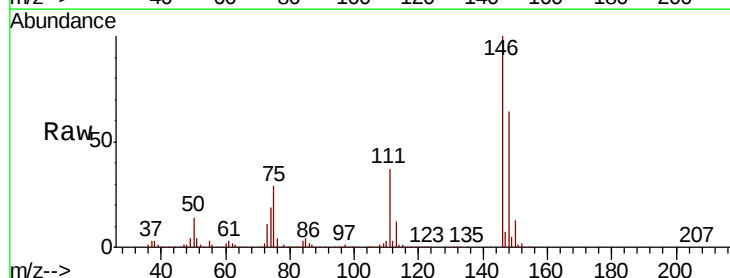
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

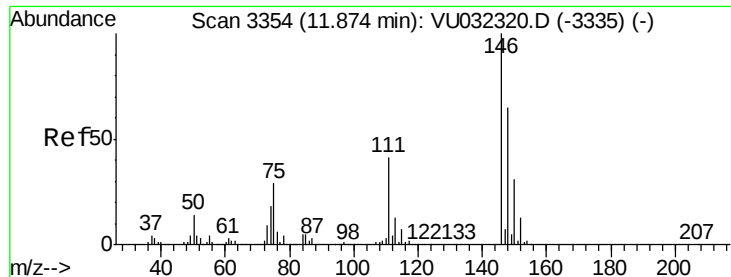
Tgt Ion:146 Resp: 2921136
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.6 51.2
 148 63.9 44.7 82.9



#63
 1,4-Dichlorobenzene
 Concen: 183.864 ug/L
 RT: 11.50 min Scan# 3238
 Delta R.T. -0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Tgt Ion:146 Resp: 2959724
 Ion Ratio Lower Upper
 146 100
 111 37.1 25.6 47.4
 148 63.7 45.0 83.6

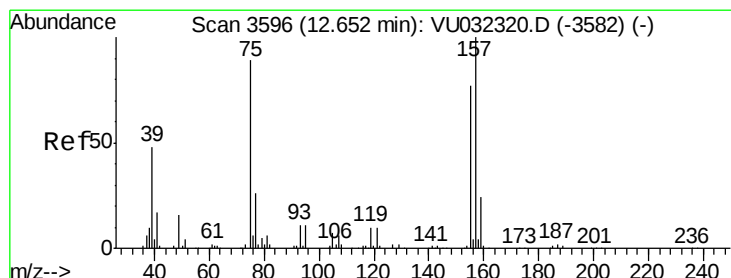
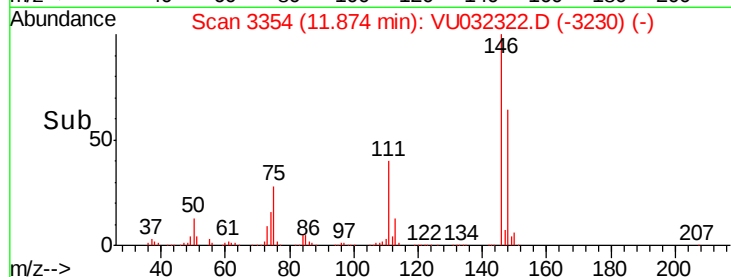
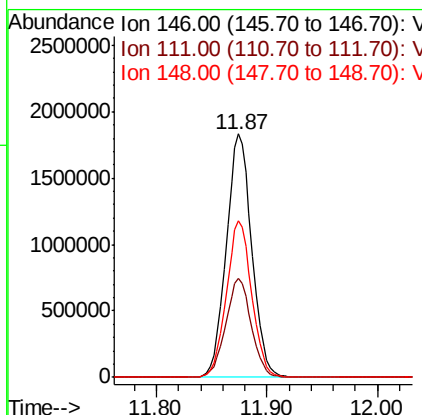
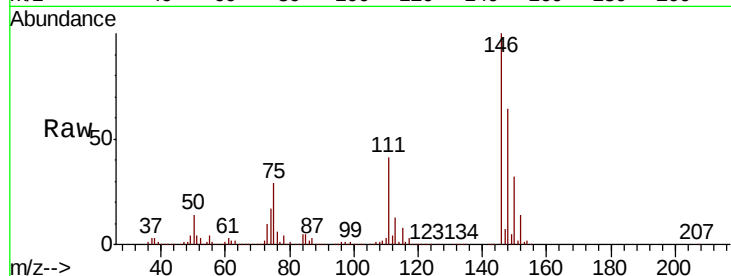




#65
 1,2-Dichlorobenzene
 Concen: 175.126 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

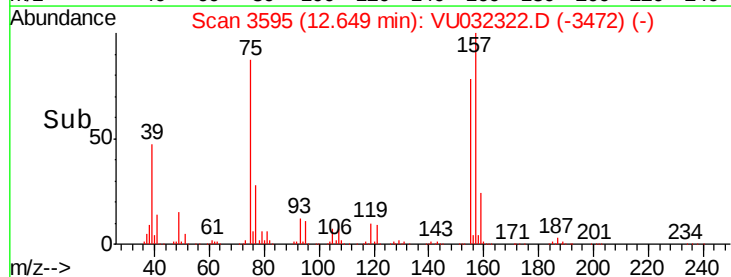
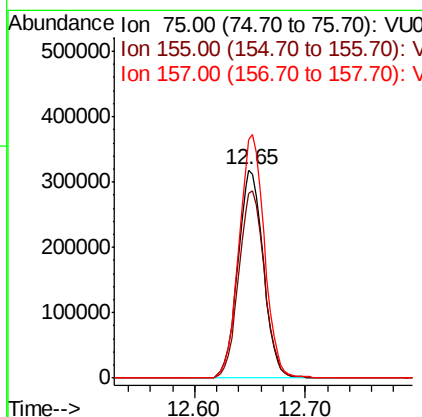
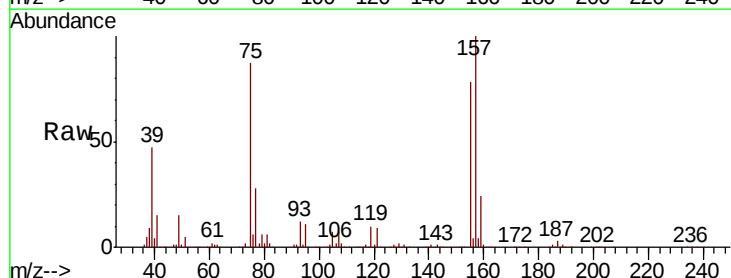
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

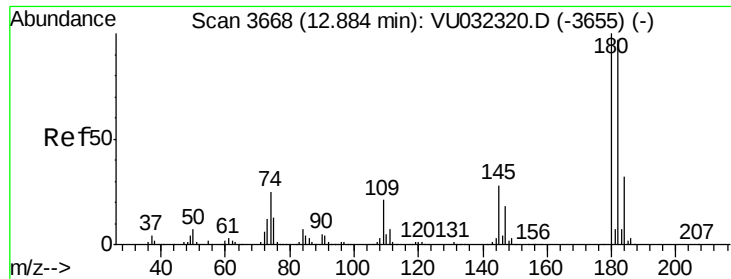
Tgt Ion:146 Resp: 2920721
 Ion Ratio Lower Upper
 146 100
 111 40.6 33.1 49.7
 148 64.2 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 169.942 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. -0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Tgt Ion: 75 Resp: 507867
 Ion Ratio Lower Upper
 75 100
 155 89.2 69.5 104.3
 157 114.6 89.8 134.6

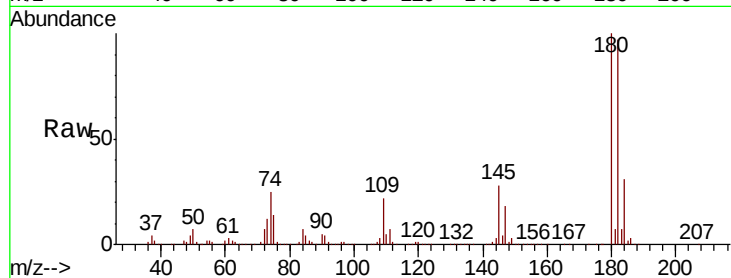




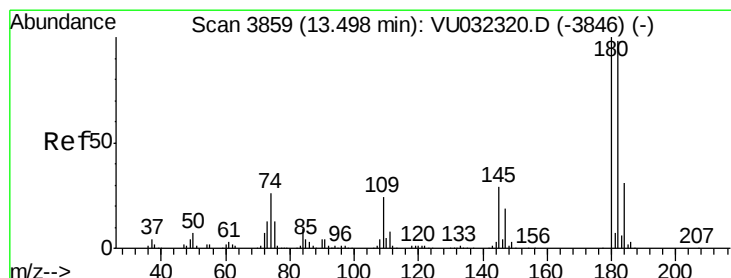
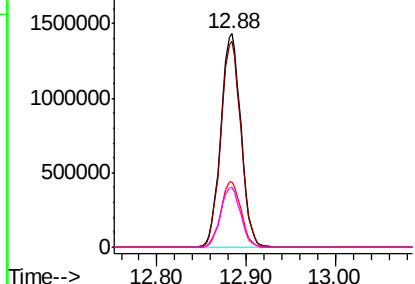
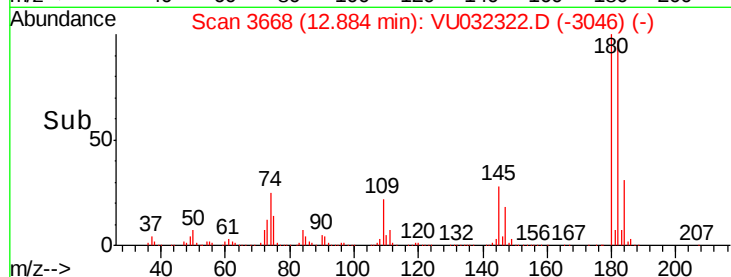
#67
 1,3,5-Trichlorobenzene
 Concen: 202.676 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20057

Tgt Ion:180 Resp: 2236062
 Ion Ratio Lower Upper
 180 100
 182 96.1 78.3 117.5
 184 30.5 25.0 37.4
 145 28.1 22.6 33.8

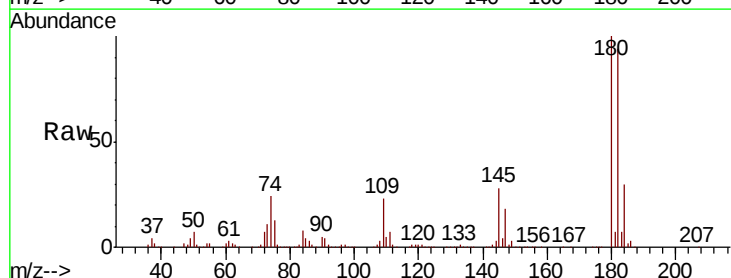


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

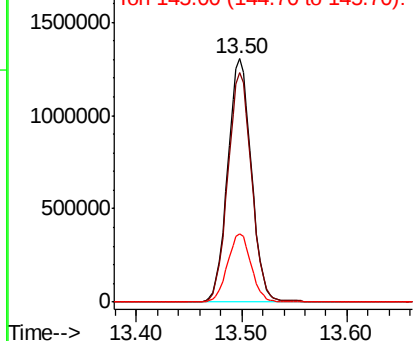
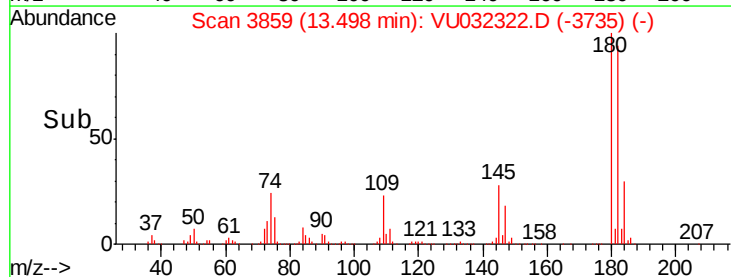


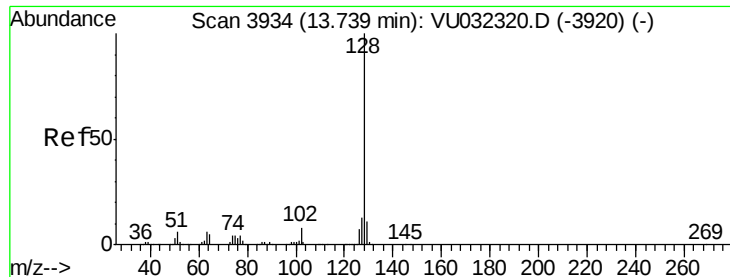
#68
 1,2,4-trichlorobenzene
 Concen: 232.507 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032322.D
 Acq: 28 May 2019 12:36

Tgt Ion:180 Resp: 2018535
 Ion Ratio Lower Upper
 180 100
 182 94.6 78.2 117.4
 145 28.2 23.0 34.4



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





#69

Naphthalene

Concen: 214.428 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD20057

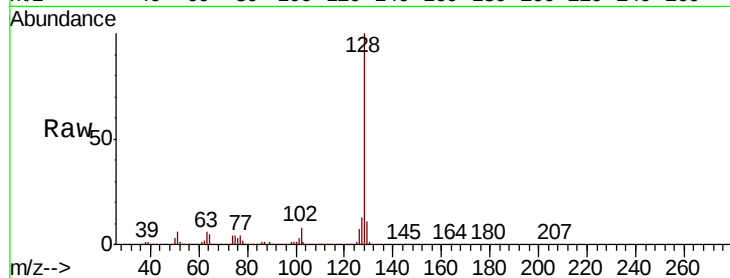
Tgt Ion:128 Resp: 6364831

Ion Ratio Lower Upper

128 100

127 13.1 10.1 15.1

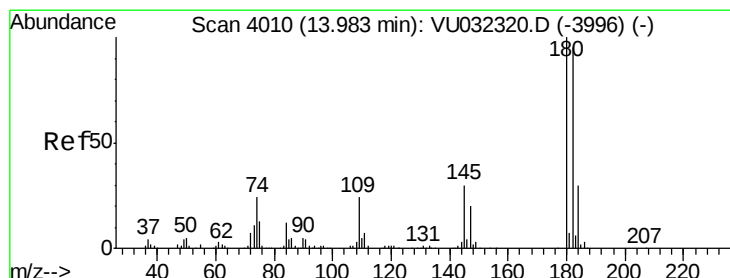
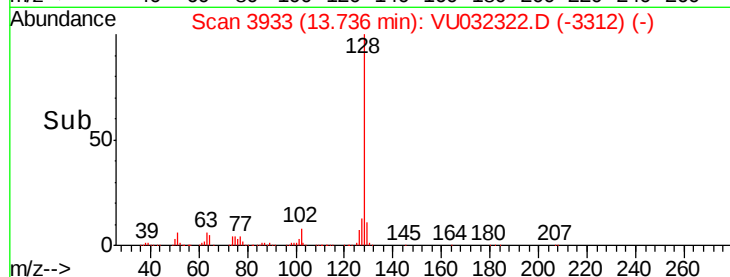
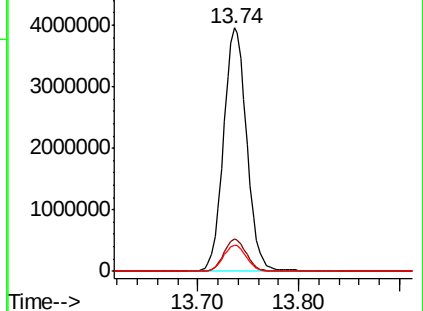
129 10.7 8.7 13.1



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: 204.868 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032322.D

Acq: 28 May 2019 12:36

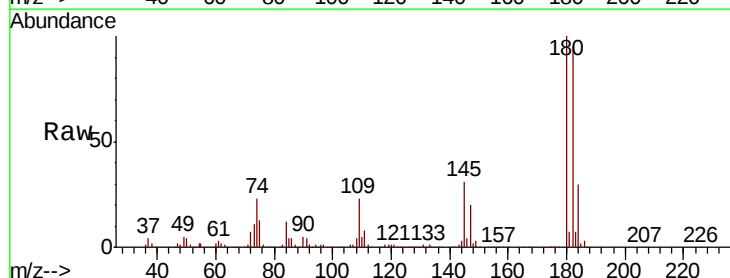
Tgt Ion:180 Resp: 2024720

Ion Ratio Lower Upper

180 100

182 95.5 77.7 116.5

145 30.2 24.3 36.5



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

