

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
 Data File : VU032320.D
 Acq On : 28 May 2019 11:48
 Operator : JC/SP
 Sample : VSTD05055
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Quant Time: May 29 04:48:54 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	823710	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	837712	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	413225	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	303517	65.23	ug/L	0.00
7) Chloroethane-d5	1.67	69	243649	56.98	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	529427	59.10	ug/L	0.00
21) 2-Butanone-d5	4.17	46	411049	100.99	ug/L	0.00
24) Chloroform-d	4.64	84	530565	48.67	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	314501	46.51	ug/L	0.00
32) Benzene-d6	5.33	84	1097197	51.27	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	334535	49.44	ug/L	0.00
41) Toluene-d8	7.56	98	1027423	52.35	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	158116	50.65	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	291813	102.30	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	502760	45.19	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	413562	47.79	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	317265	59.031 ug/L	100
3) Chloromethane	1.33	50	328932	50.815 ug/L	100
5) Vinyl chloride	1.40	62	343726	56.199 ug/L	100
6) Bromomethane	1.61	94	219951	46.886 ug/L	100
8) Chloroethane	1.69	64	201064	49.503 ug/L	100
9) Trichlorofluoromethane	1.88	101	431735	56.136 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	260313	58.006 ug/L	100
12) 1,1-Dichloroethene	2.28	96	263735	53.728 ug/L	100
13) Acetone	2.32	43	371310	107.953 ug/L	100
14) Carbon disulfide	2.47	76	791472	53.673 ug/L	100
15) Methyl Acetate	2.61	43	301504	47.219 ug/L	100
16) Methylene chloride	2.70	84	303553	45.072 ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	273840	48.786 ug/L	100
18) Methyl tert-butyl Ether	3.00	73	839940	44.729 ug/L	100
19) 1,1-Dichloroethane	3.44	63	492577	48.985 ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	306185	46.658 ug/L	100
22) 2-Butanone	4.26	43	472808	104.678 ug/L	100
23) Bromochloromethane	4.54	128	161538	44.915 ug/L	100
25) Chloroform	4.67	83	516789	46.639 ug/L	100
27) 1,2-Dichloroethane	5.40	62	390158	45.397 ug/L	100
29) Cyclohexane	4.99	56	439353	62.891 ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	432227	51.589 ug/L	100
31) Carbon tetrachloride	5.13	117	373411	53.879 ug/L	100
33) Benzene	5.38	78	1159061	48.674 ug/L	100
34) Trichloroethene	6.18	95	303938	50.990 ug/L	100
35) Methylcyclohexane	6.41	83	469169	62.033 ug/L	100
37) 1,2-Dichloropropane	6.43	63	299341	48.393 ug/L	100
38) Bromodichloromethane	6.75	83	387773	45.621 ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	454678	49.965 ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	815152	96.071 ug/L	100

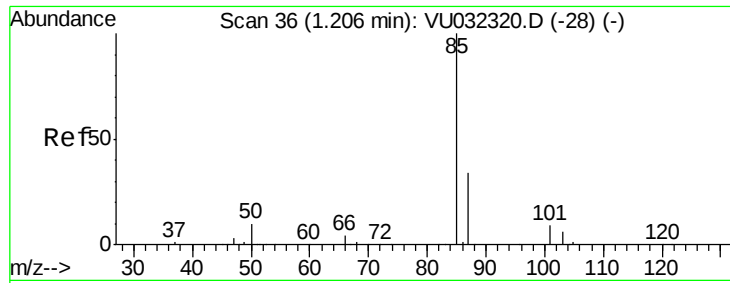
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052819\
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 QLast Update : Wed May 29 04:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1281136	50.830	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	400131	49.923	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	294640	43.947	ug/L	100
46) Tetrachloroethene	8.22	164	243477	53.535	ug/L	100
48) 2-Hexanone	8.36	43	670916	100.660	ug/L	100
49) Dibromochloromethane	8.47	129	320020	44.891	ug/L	100
50) 1,2-Dibromoethane	8.58	107	313864	43.610	ug/L	100
51) Chlorobenzene	9.12	112	816534	48.500	ug/L	100
52) Ethylbenzene	9.24	91	1393269	53.565	ug/L	100
53) m,p-Xylene	9.37	106	545062	54.277	ug/L	100
54) o-xylene	9.77	106	540506	52.141	ug/L	100
55) Styrene	9.79	104	933612	52.864	ug/L	100
56) Isopropylbenzene	10.16	105	1387766	56.312	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	500992	43.880	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	392568	43.663	ug/L	100
61) Bromoform	9.95	173	246526	41.050	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	622353	47.486	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	653341	47.866	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	661498	46.777	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	109821	43.339	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	483571	51.692	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	387215	52.601	ug/L	100
69) Naphthalene	13.74	128	1215118	48.279	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	419461	50.055	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 59.031 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

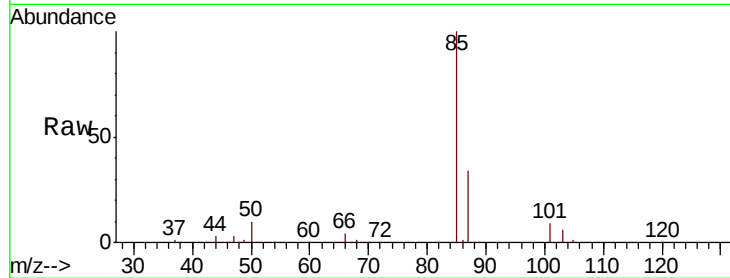
VSTD05055

Tgt Ion: 85 Resp: 317265

Ion Ratio Lower Upper

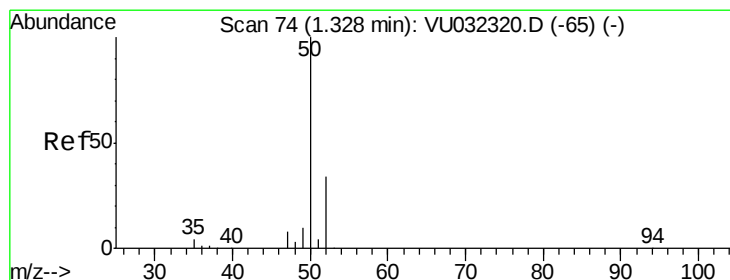
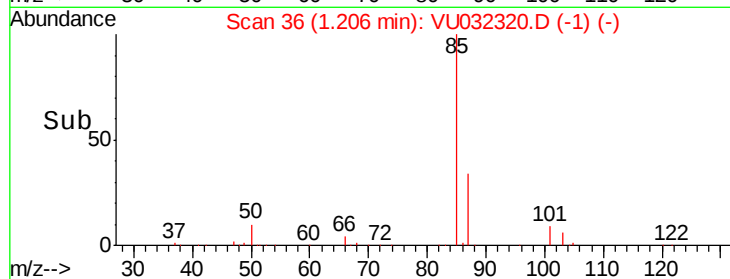
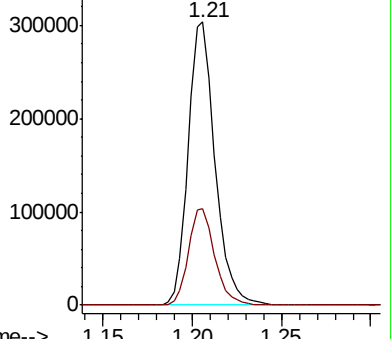
85 100

87 33.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VU032320.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032320.D (-28) (-)



#3

Chloromethane

Concen: 50.815 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032320.D

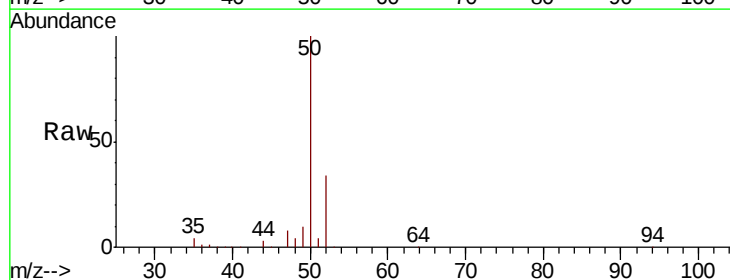
Acq: 28 May 2019 11:48

Tgt Ion: 50 Resp: 328932

Ion Ratio Lower Upper

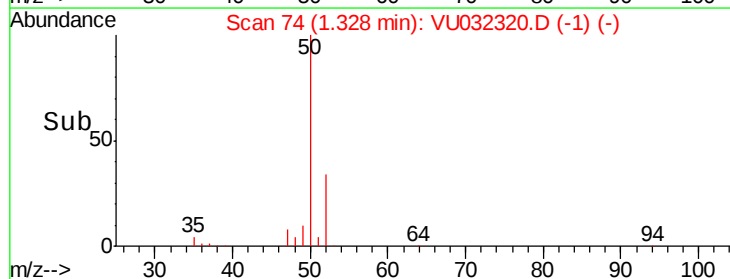
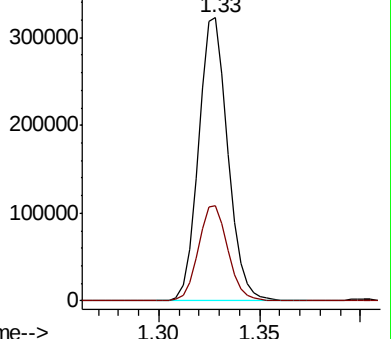
50 100

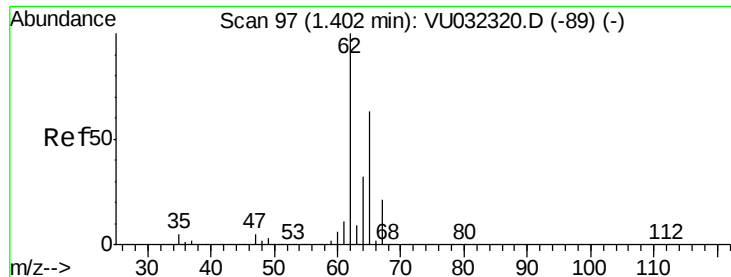
52 33.7 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU032320.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032320.D (-65) (-)





#5

Vinyl chloride

Concen: 56.199 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

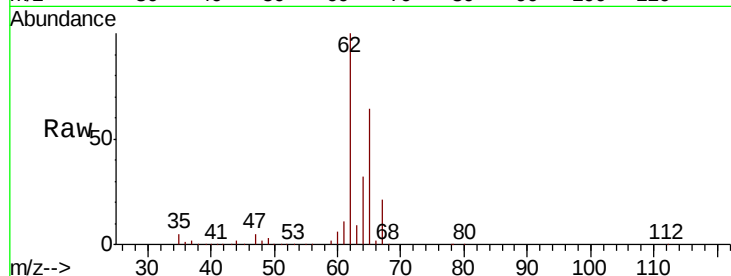
VSTD05055

Tgt Ion: 62 Resp: 343726

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU032320.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032320.D (-89) (-)

1.40

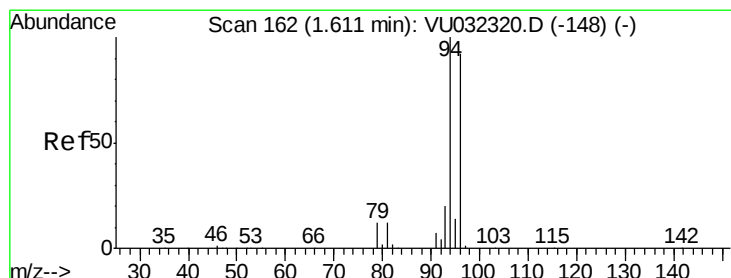
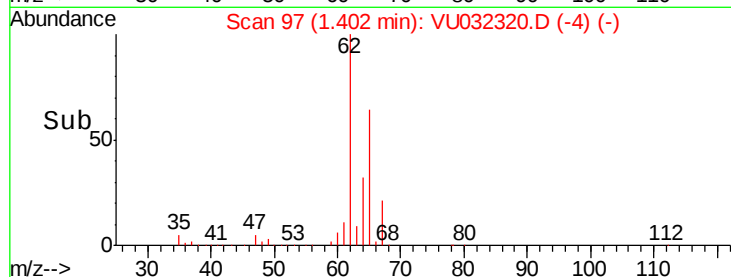
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 46.886 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU032320.D

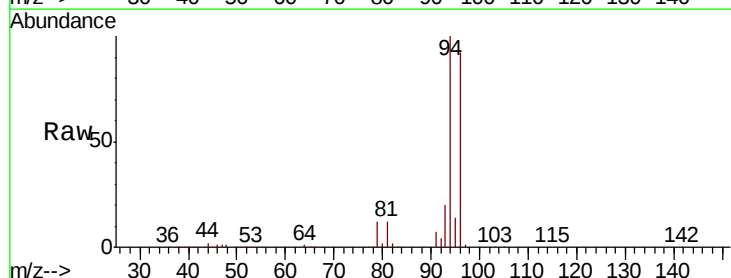
Acq: 28 May 2019 11:48

Tgt Ion: 94 Resp: 219951

Ion Ratio Lower Upper

94 100

96 92.2 64.5 119.9



Abundance Ion 94.00 (93.70 to 94.70): VU032320.D (-148) (-)

Ion 96.00 (95.70 to 96.70): VU032320.D (-148) (-)

1.61

200000

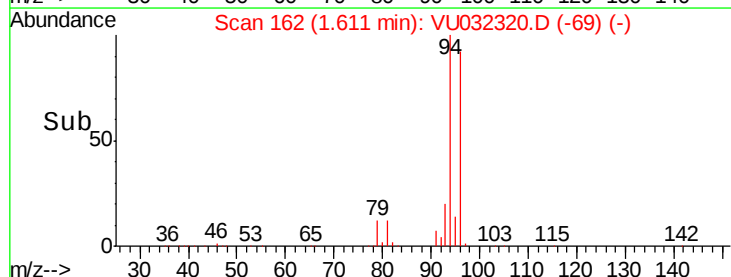
150000

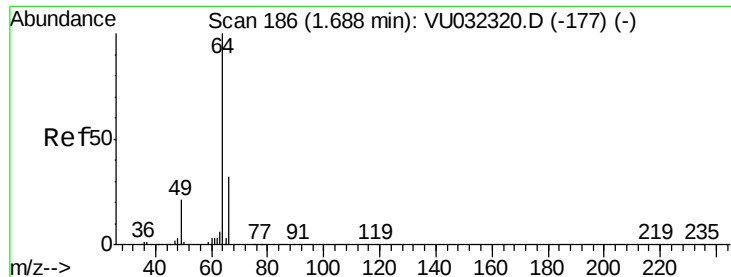
100000

50000

0

Time-->





#8

Chloroethane

Concen: 49.503 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

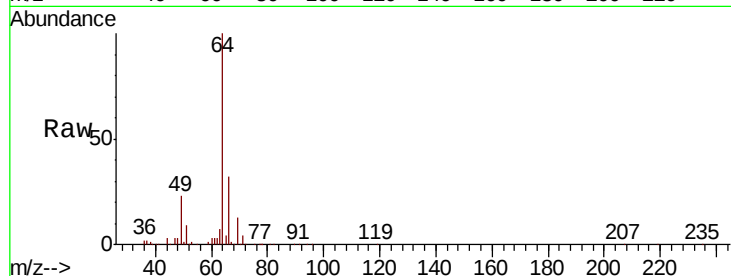
VSTD05055

Tgt Ion: 64 Resp: 201064

Ion Ratio Lower Upper

64 100

66 32.0 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU032320.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU032320.D (-177) (-)

1.69

150000

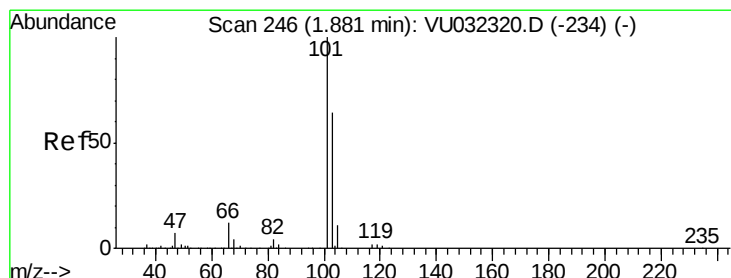
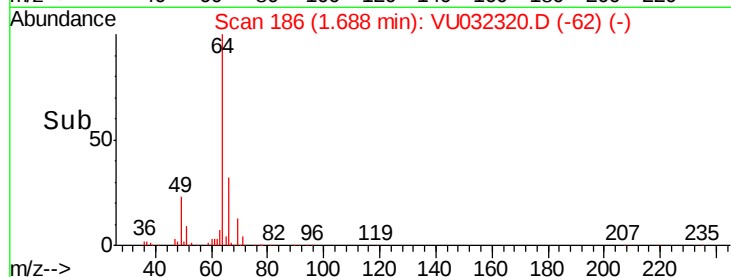
100000

50000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 56.136 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032320.D

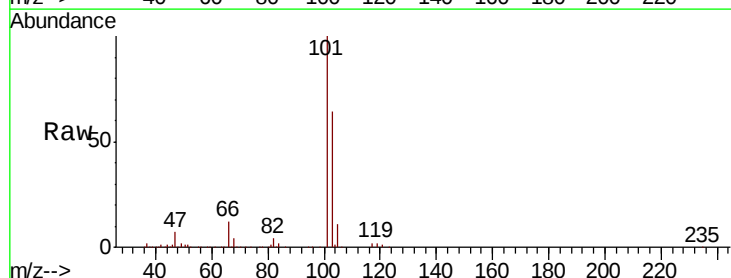
Acq: 28 May 2019 11:48

Tgt Ion: 101 Resp: 431735

Ion Ratio Lower Upper

101 100

103 64.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VU032320.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032320.D (-234) (-)

1.88

300000

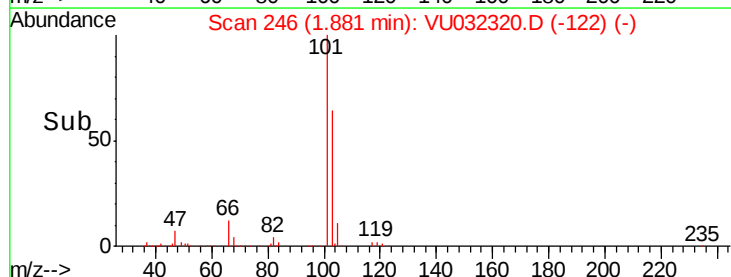
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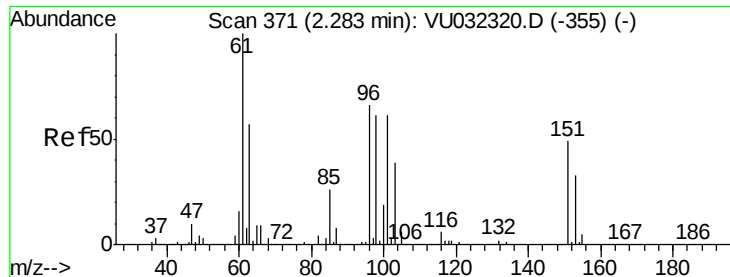
100000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 58.006 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

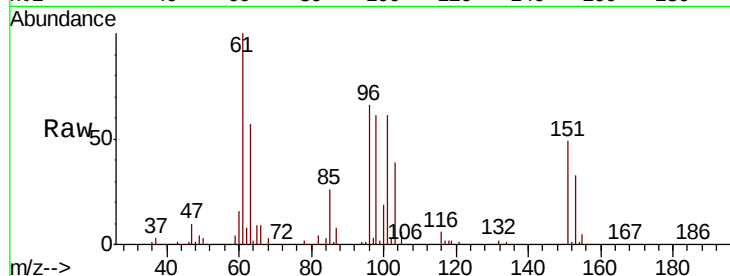
Tgt Ion: 101 Resp: 260313

Ion Ratio Lower Upper

101 100

85 41.7 33.4 50.0

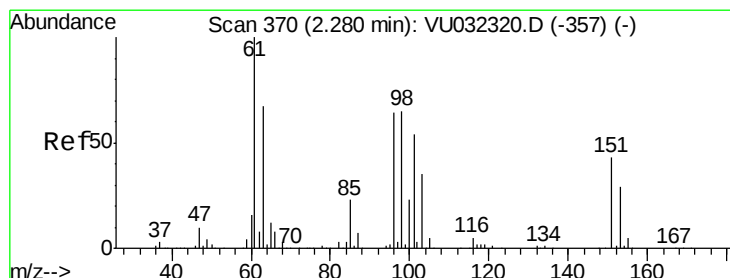
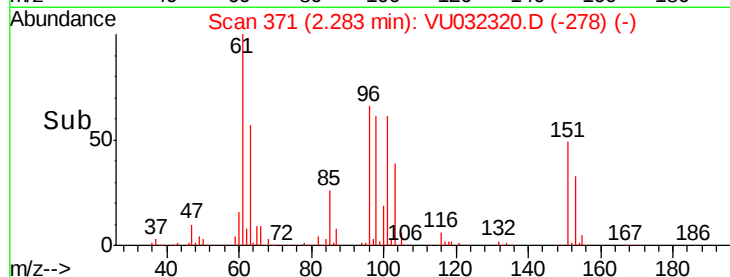
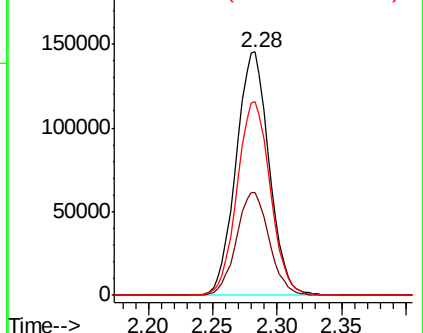
151 79.6 63.7 95.5



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: 53.728 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

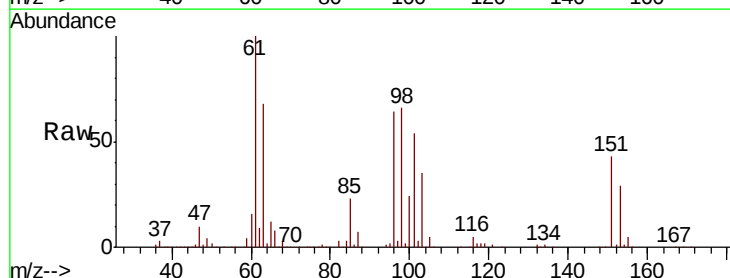
Tgt Ion: 96 Resp: 263735

Ion Ratio Lower Upper

96 100

61 156.8 109.8 203.8

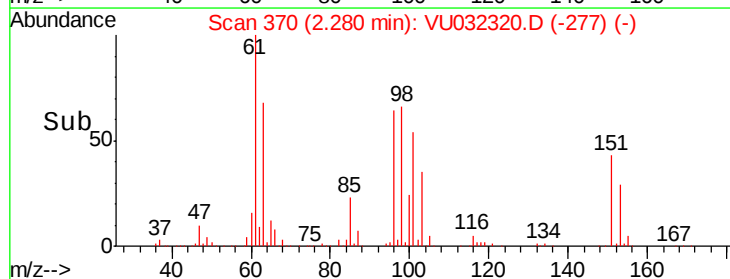
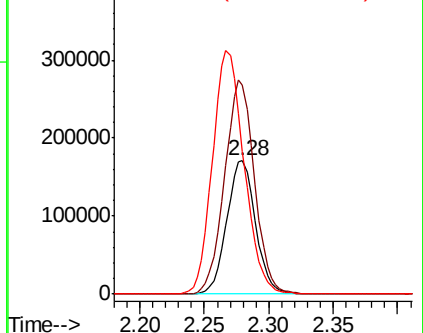
63 106.3 74.4 138.2

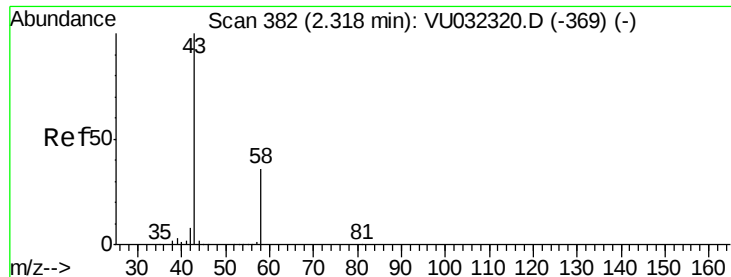


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 107.953 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

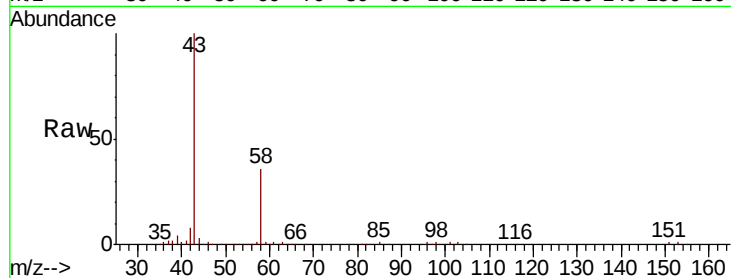
VSTD05055

Tgt Ion: 43 Resp: 371310

Ion Ratio Lower Upper

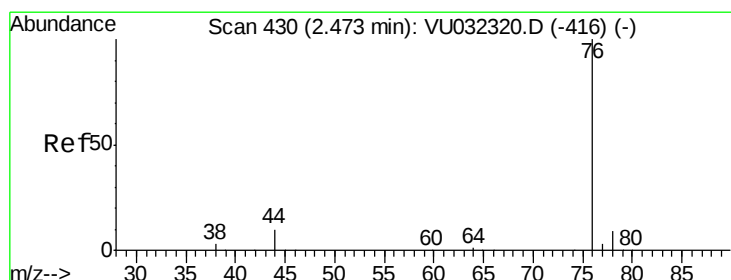
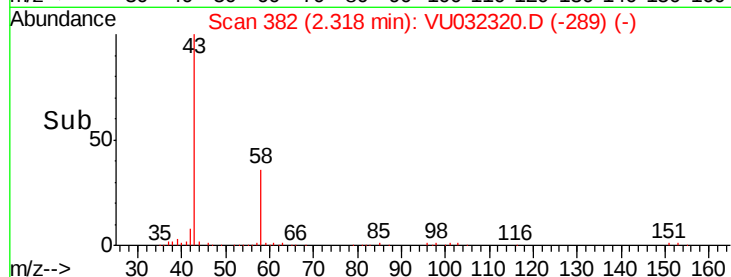
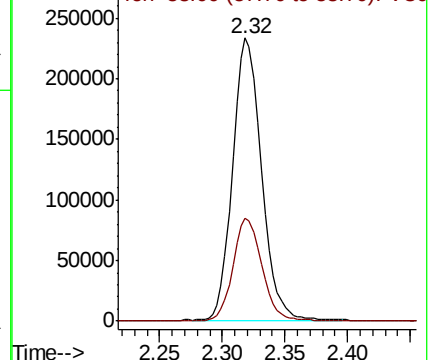
43 100

58 36.8 0.0 73.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 53.673 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032320.D

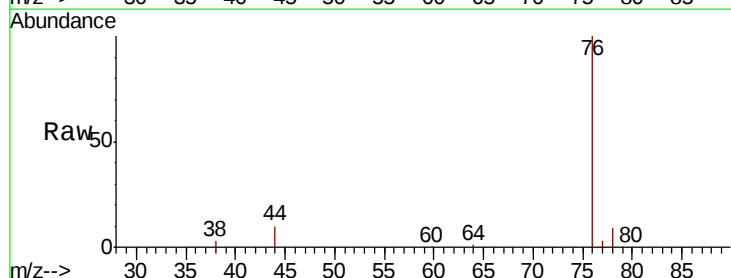
Acq: 28 May 2019 11:48

Tgt Ion: 76 Resp: 791472

Ion Ratio Lower Upper

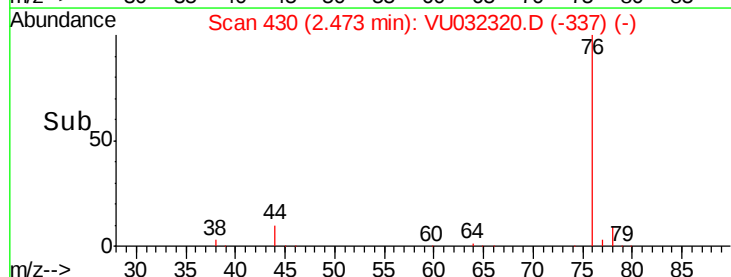
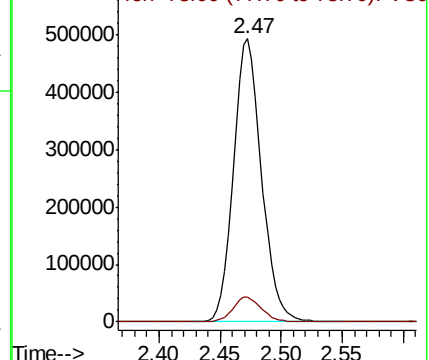
76 100

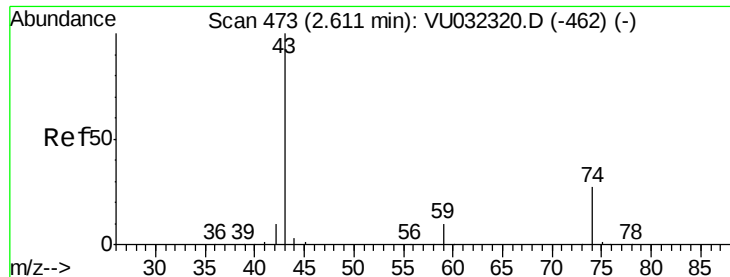
78 8.8 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 47.219 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

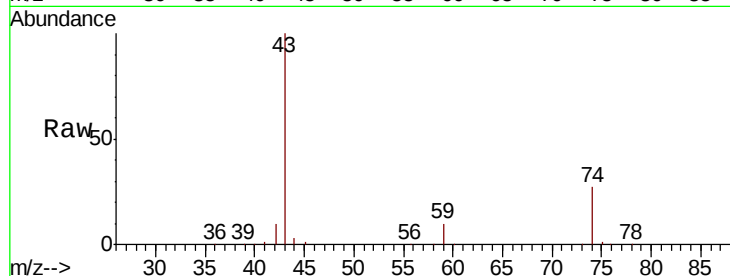
VSTD05055

Tgt Ion: 43 Resp: 301504

Ion Ratio Lower Upper

43 100

74 26.4 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-462) (-)

Ion 74.00 (73.70 to 74.70): VU032320.D (-462) (-)

200000

150000

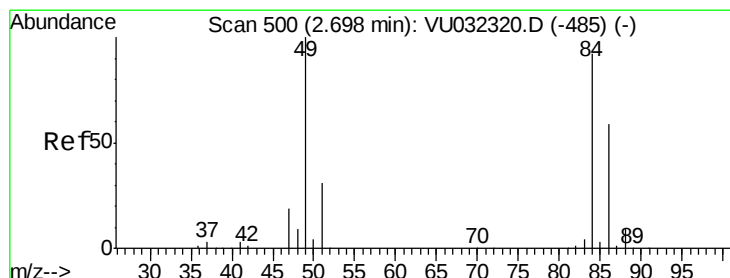
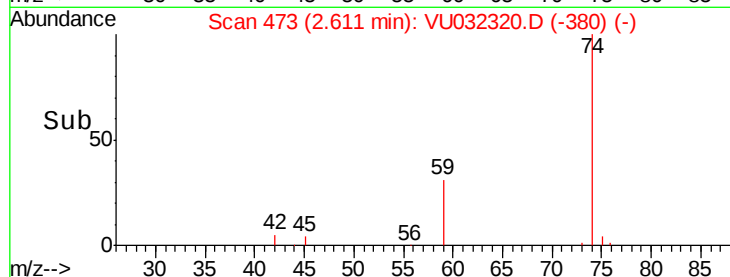
100000

50000

0

2.60 2.70

Time-->



#16

Methylene chloride

Concen: 45.072 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

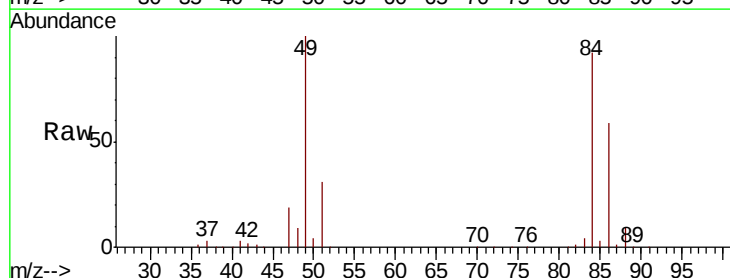
Tgt Ion: 84 Resp: 303553

Ion Ratio Lower Upper

84 100

86 64.3 45.0 83.6

49 108.4 75.9 140.9



Abundance Ion 84.00 (83.70 to 84.70): VU032320.D (-485) (-)

Ion 86.00 (85.70 to 86.70): VU032320.D (-485) (-)

Ion 49.00 (48.70 to 49.70): VU032320.D (-485) (-)

250000

200000

150000

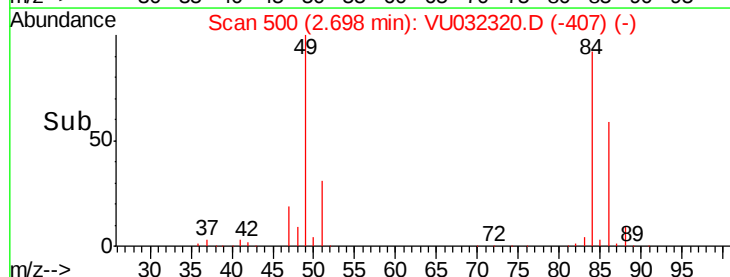
100000

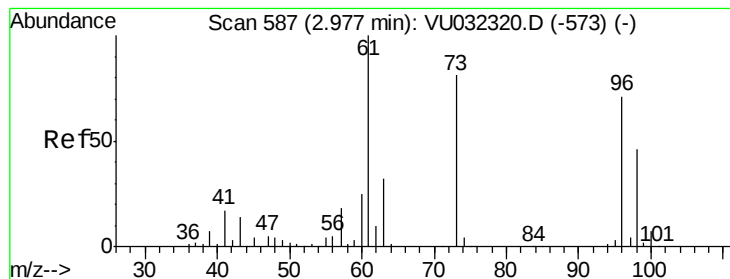
50000

0

2.60 2.65 2.70 2.75

Time-->





#17

trans-1,2-Dichloroethene

Concen: 48.786 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampled :

VSTD05055

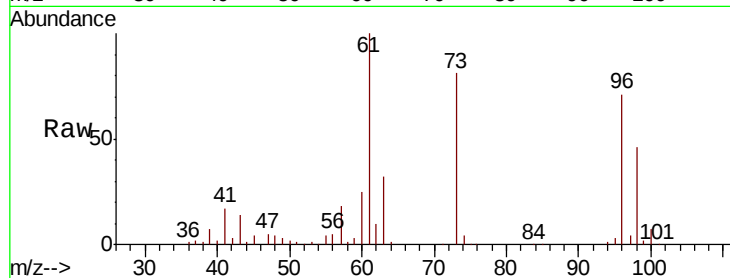
Tgt Ion: 96 Resp: 273840

Ion Ratio Lower Upper

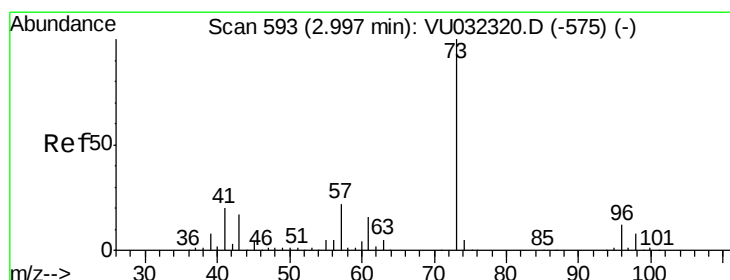
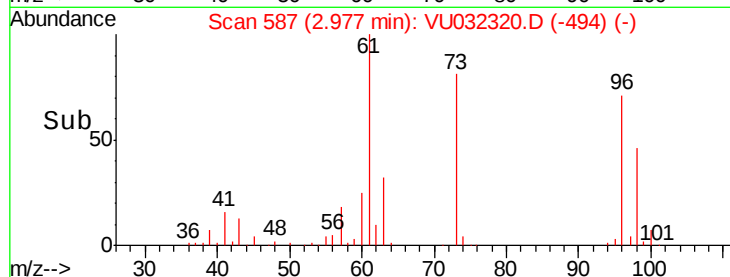
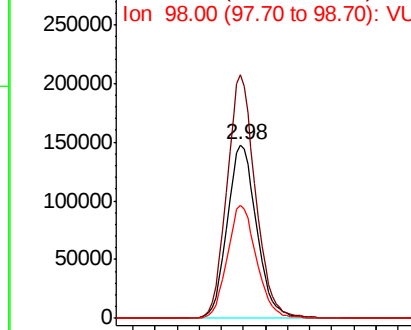
96 100

61 140.3 98.2 182.4

98 65.0 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 44.729 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

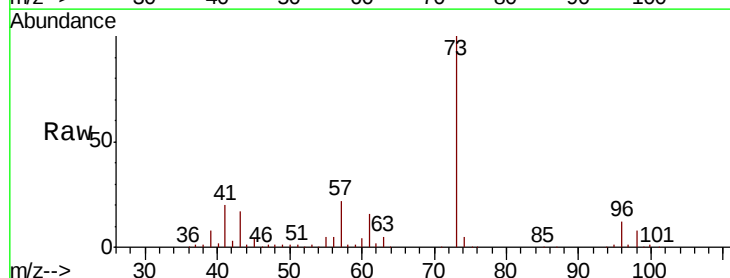
Tgt Ion: 73 Resp: 839940

Ion Ratio Lower Upper

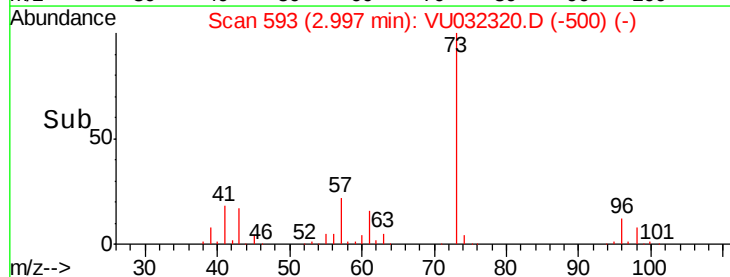
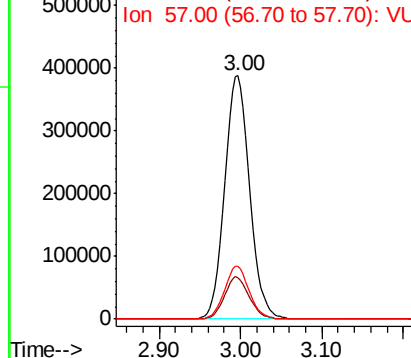
73 100

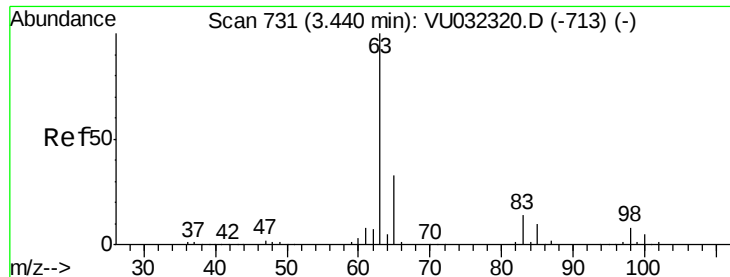
43 17.1 13.7 20.5

57 21.5 17.2 25.8



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 48.985 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

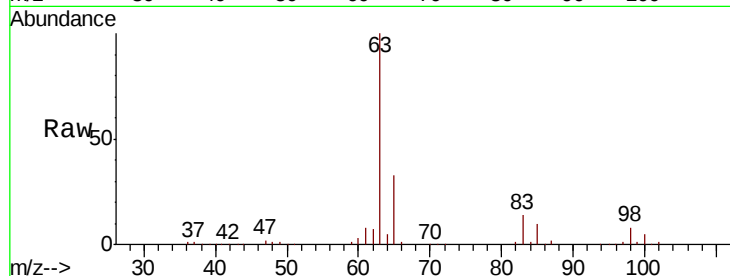
Tgt Ion: 63 Resp: 492577

Ion Ratio Lower Upper

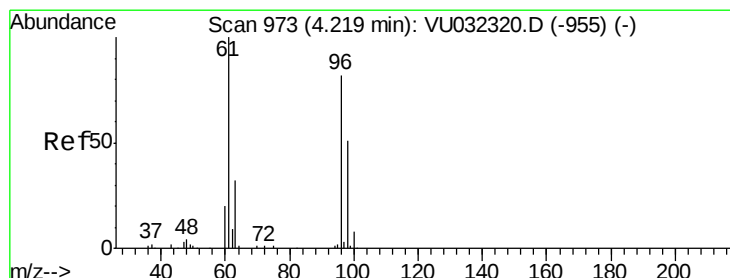
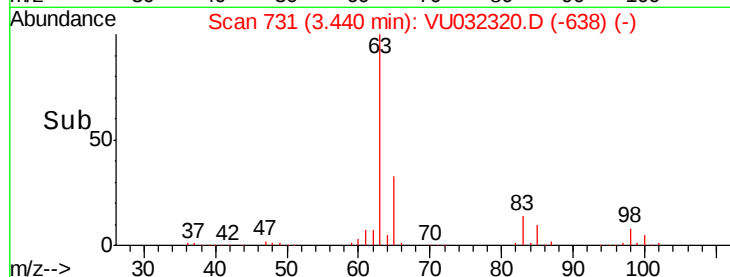
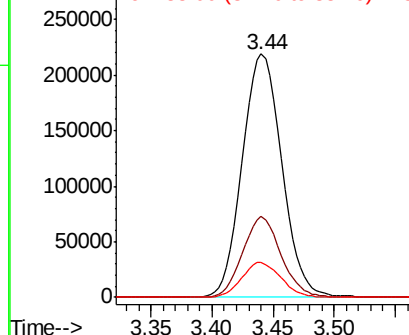
63 100

65 33.1 23.2 43.0

83 14.2 9.9 18.5



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: 46.658 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

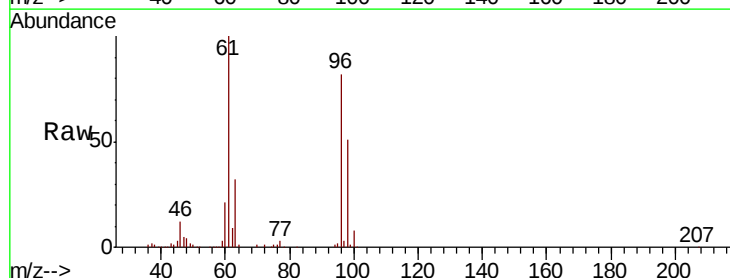
Tgt Ion: 96 Resp: 306185

Ion Ratio Lower Upper

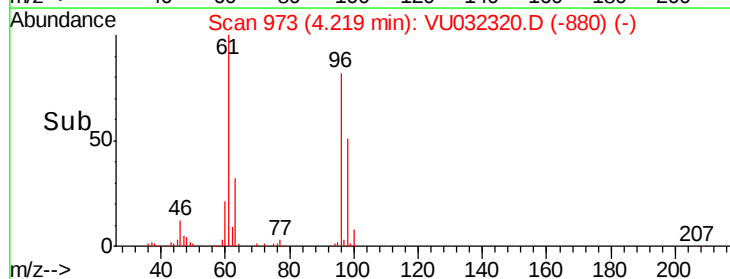
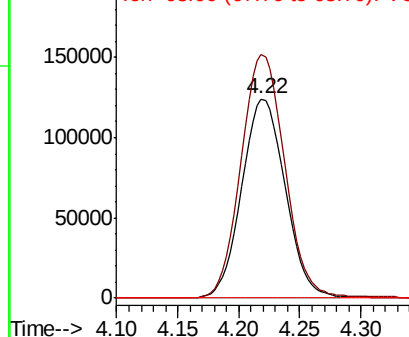
96 100

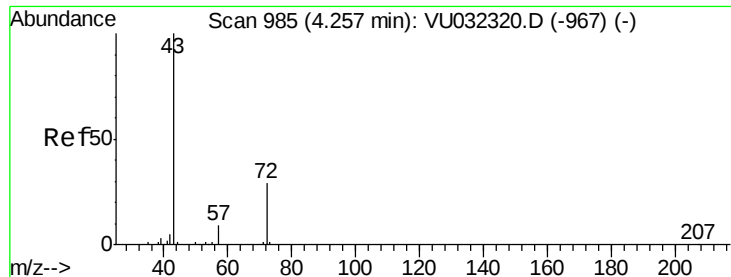
61 122.3 85.6 159.0

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: 104.678 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

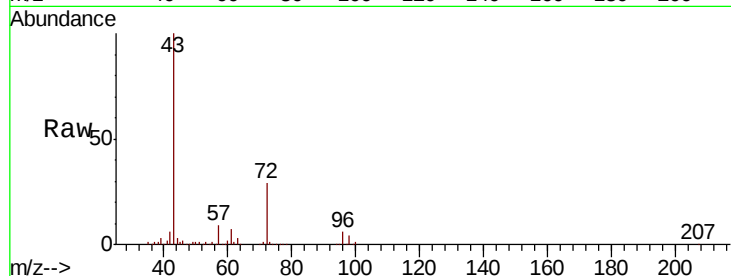
VSTD05055

Tgt Ion: 43 Resp: 472808

Ion Ratio Lower Upper

43 100

72 30.5 15.3 45.8



Abundance Ion 43.00 (42.70 to 43.70): VU032320.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU032320.D (-967) (-)

4.26

200000

150000

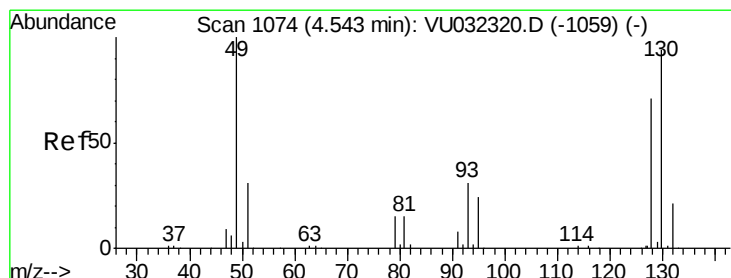
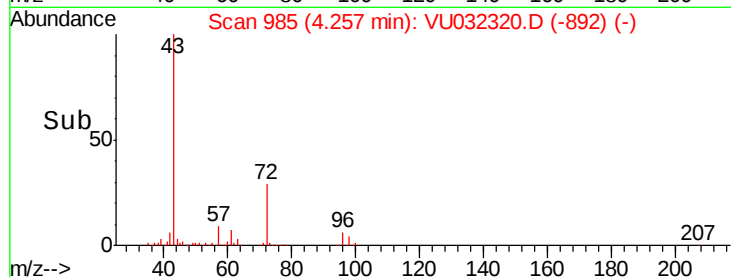
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 44.915 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Tgt Ion: 128 Resp: 161538

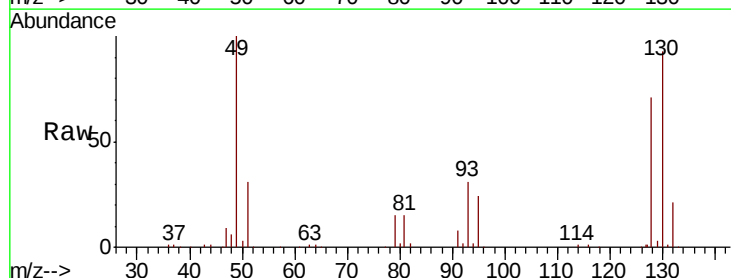
Ion Ratio Lower Upper

128 100

49 141.2 98.8 183.6

130 131.9 92.3 171.5

51 43.8 35.0 52.6



Abundance Ion 128.00 (127.70 to 128.70): VU032320.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032320.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032320.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032320.D (-1059) (-)

150000

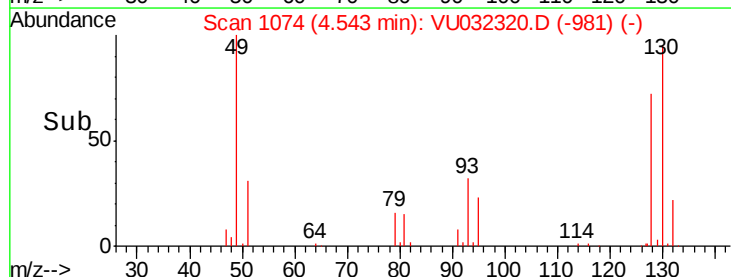
100000

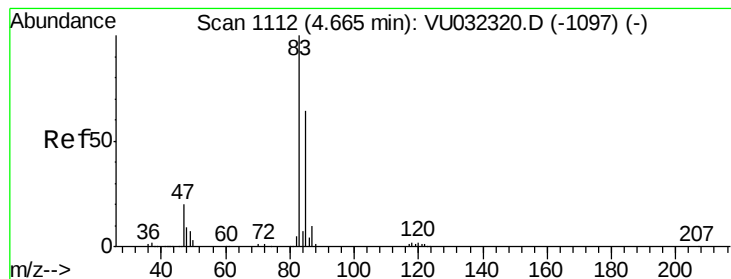
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 46.639 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

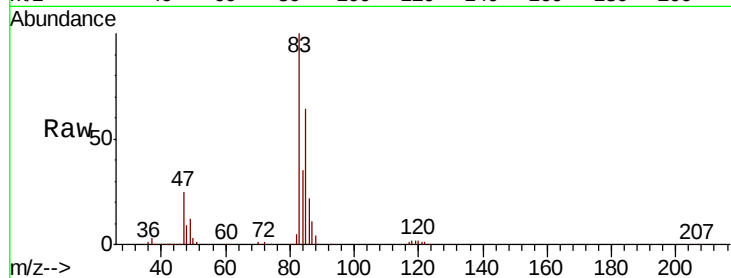
VSTD05055

Tgt Ion: 83 Resp: 516789

Ion Ratio Lower Upper

83 100

85 64.5 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU032320.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU032320.D (-1097) (-)

4.67

250000

200000

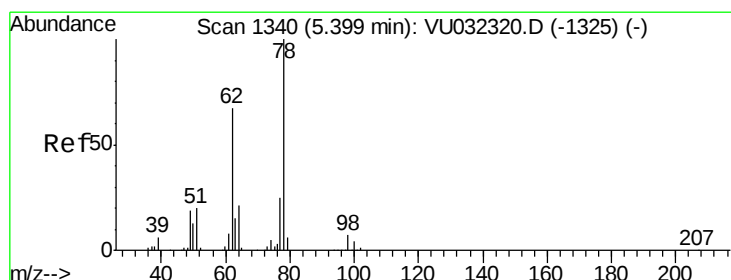
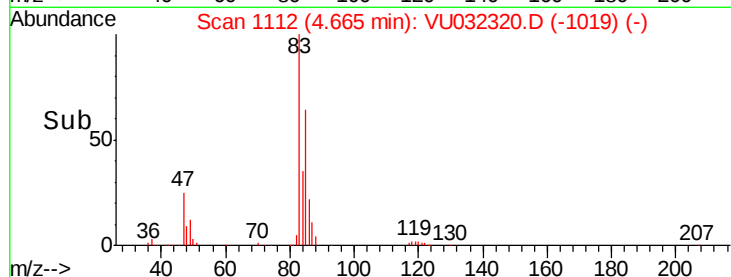
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 45.397 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU032320.D

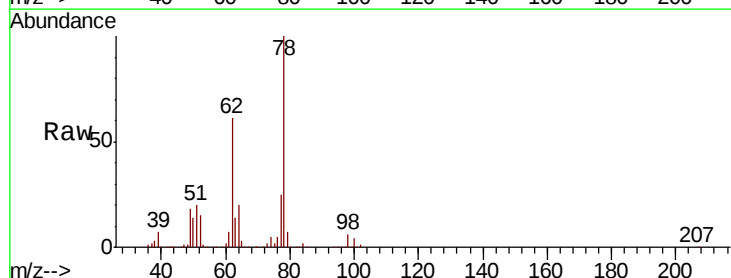
Acq: 28 May 2019 11:48

Tgt Ion: 62 Resp: 390158

Ion Ratio Lower Upper

62 100

98 10.5 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU032320.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU032320.D (-1325) (-)

5.40

200000

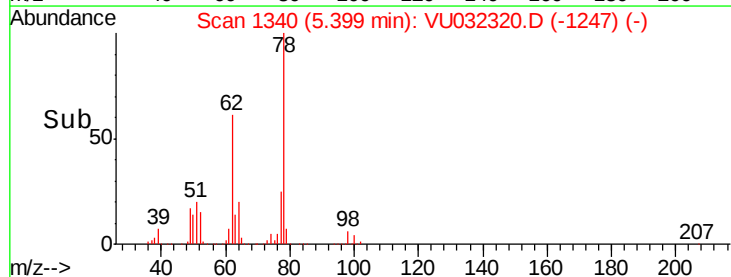
150000

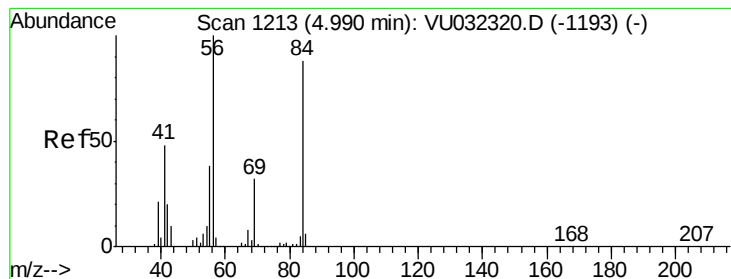
100000

50000

0

Time-->





#29

Cyclohexane

Concen: 62.891 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

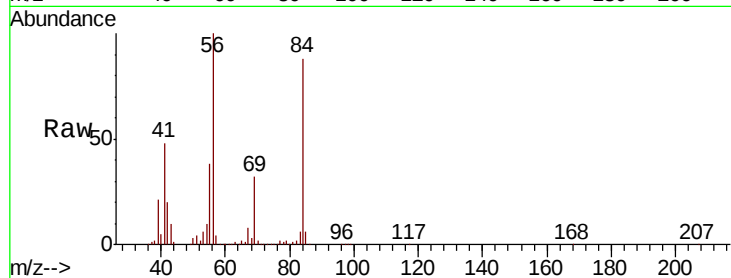
Tgt Ion: 56 Resp: 439353

Ion Ratio Lower Upper

56 100

69 32.0 25.6 38.4

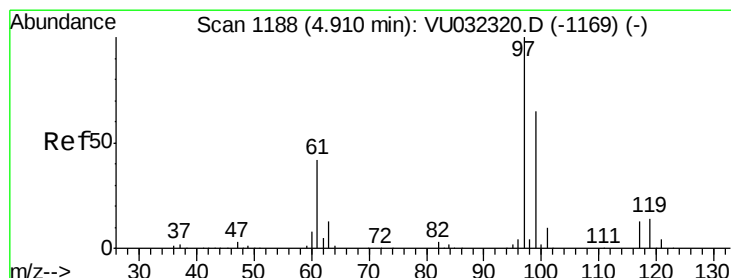
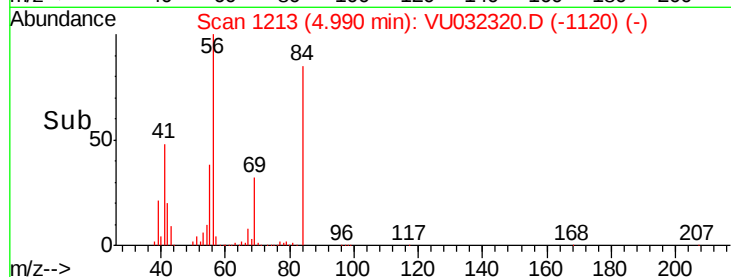
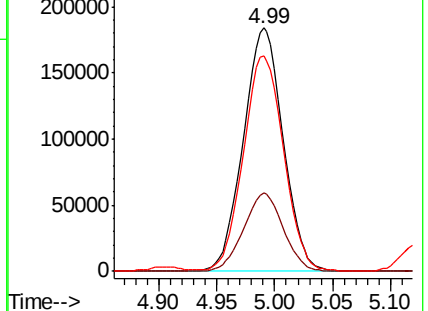
84 89.3 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VU032320.D (-1193) (-)

Ion 69.00 (68.70 to 69.70): VU032320.D (-1193) (-)

Ion 84.00 (83.70 to 84.70): VU032320.D (-1193) (-)



#30

1,1,1-Trichloroethane

Concen: 51.589 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

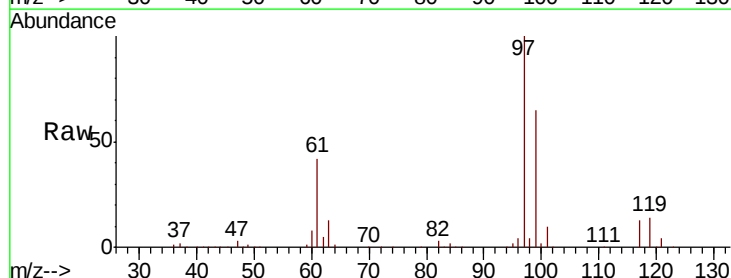
Tgt Ion: 97 Resp: 432227

Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.0

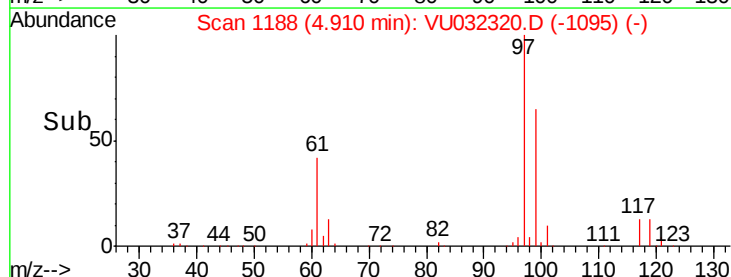
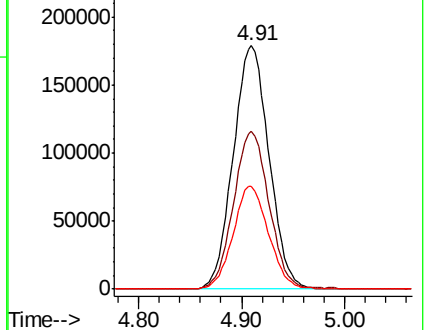
61 42.1 33.7 50.5

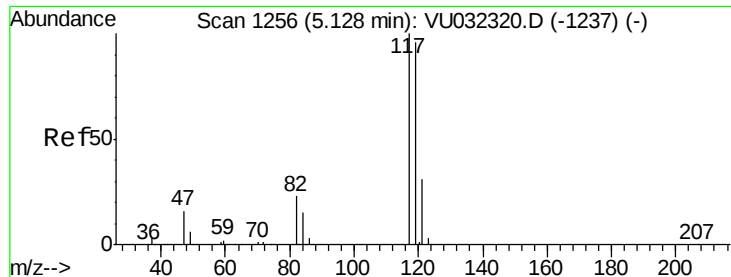


Abundance Ion 97.00 (96.70 to 97.70): VU032320.D (-1169) (-)

Ion 99.00 (98.70 to 99.70): VU032320.D (-1169) (-)

Ion 61.05 (60.75 to 61.75): VU032320.D (-1169) (-)

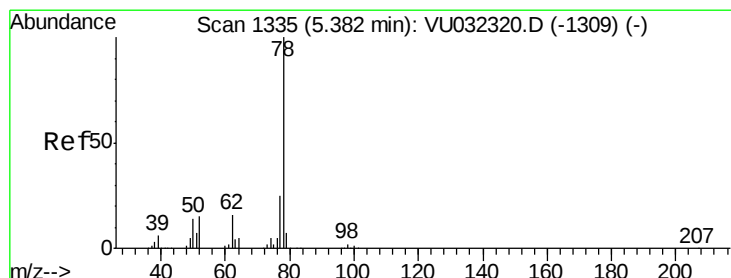
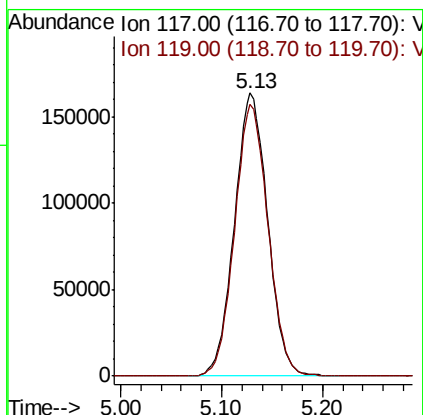
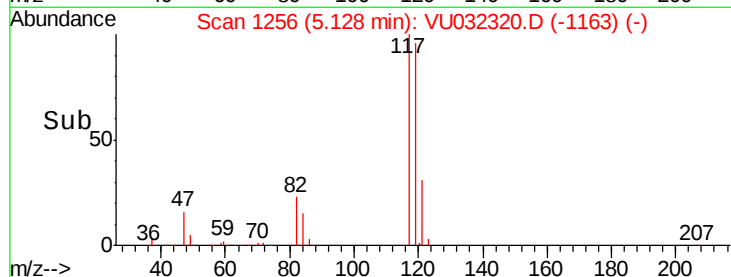
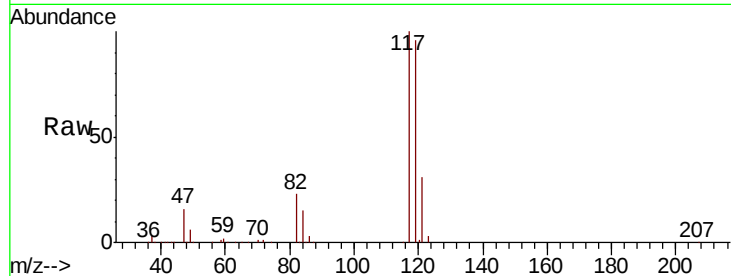




#31
Carbon tetrachloride
Concen: 53.879 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU032320.D
Acq: 28 May 2019 11:48

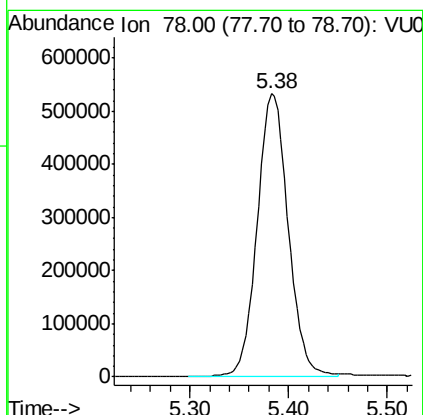
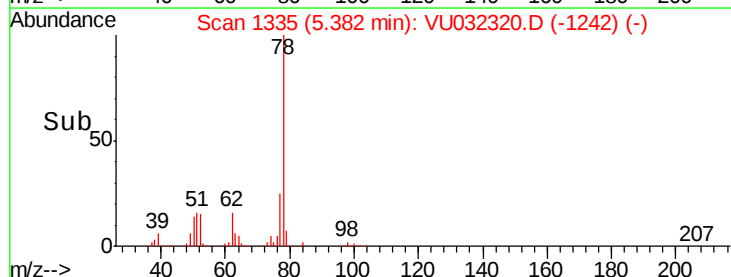
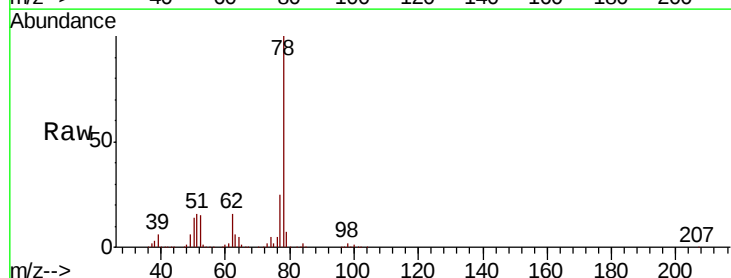
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

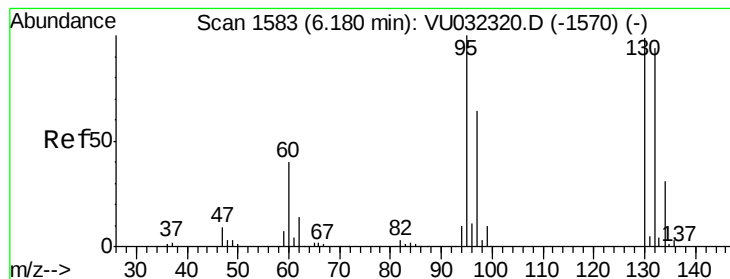
Tgt Ion:117 Resp: 373411
Ion Ratio Lower Upper
117 100
119 96.7 77.4 116.0



#33
Benzene
Concen: 48.674 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU032320.D
Acq: 28 May 2019 11:48

Tgt Ion: 78 Resp: 1159061





#34

Trichloroethene

Concen: 50.990 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

Tgt Ion: 95 Resp: 303938

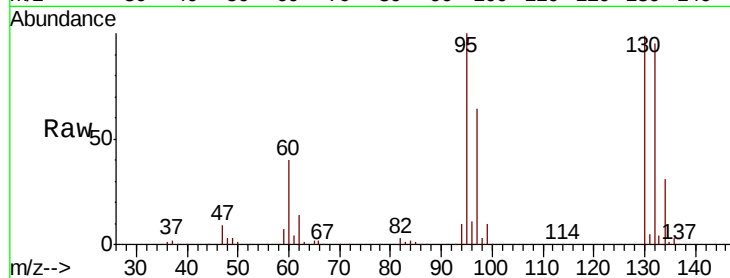
Ion Ratio Lower Upper

95 100

97 64.0 44.8 83.2

132 94.6 66.2 123.0

130 99.1 69.4 128.8

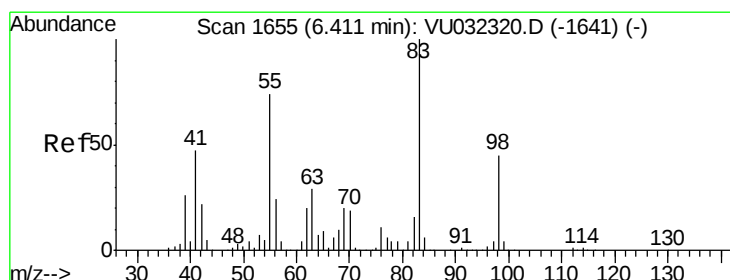
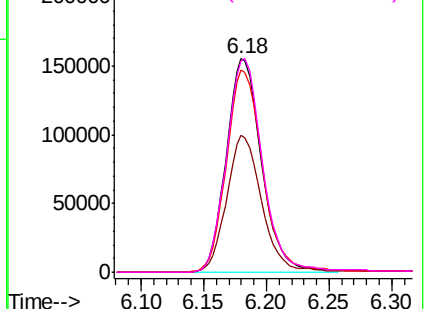
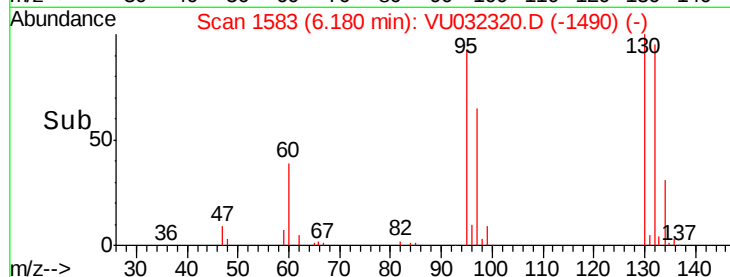


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 62.033 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

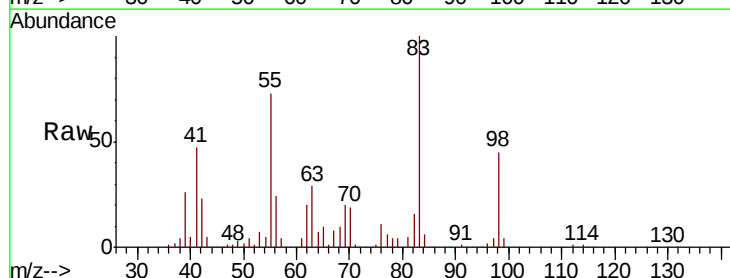
Tgt Ion: 83 Resp: 469169

Ion Ratio Lower Upper

83 100

55 74.2 59.4 89.0

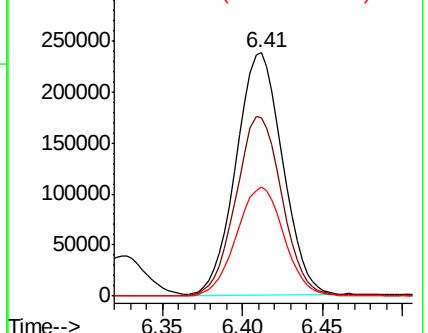
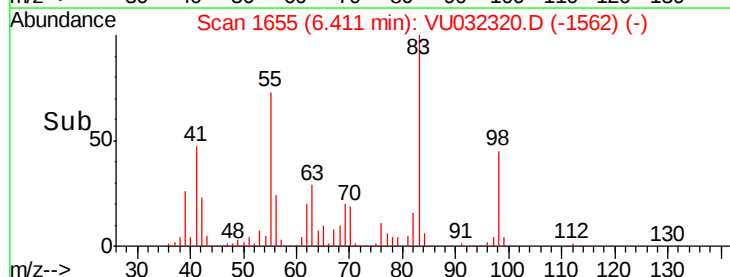
98 46.4 37.1 55.7

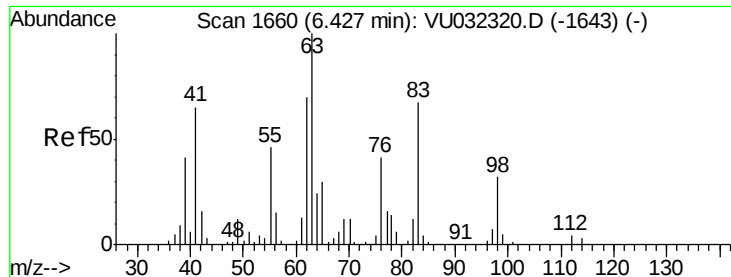


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

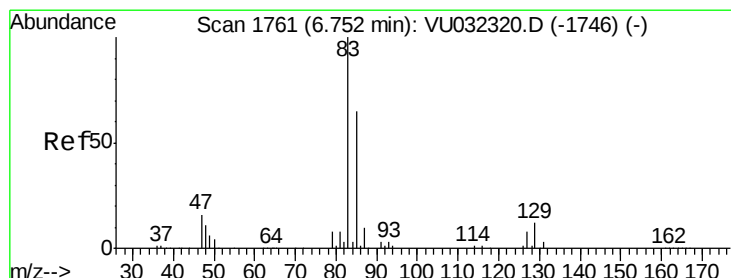
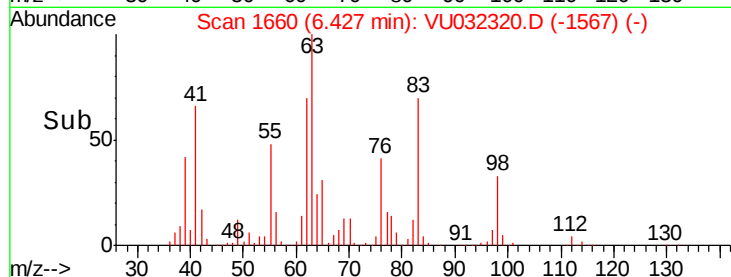
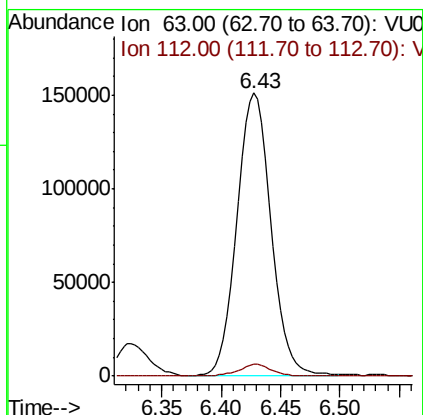
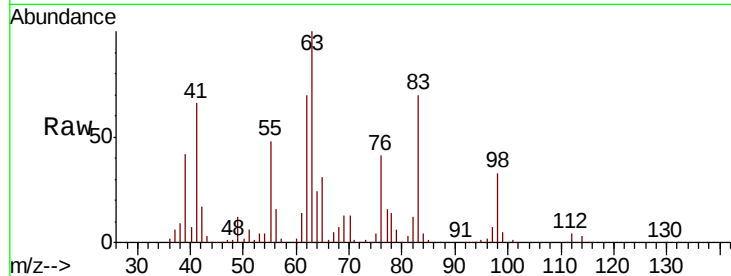




#37
 1,2-Dichloropropane
 Concen: 48.393 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

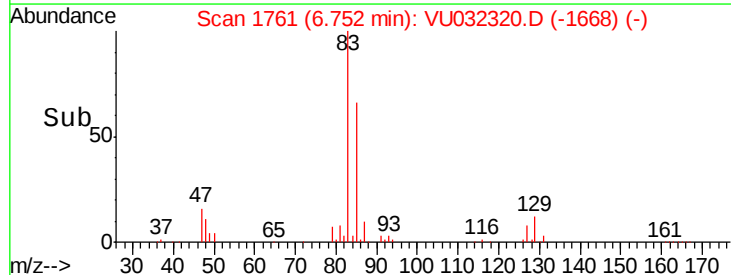
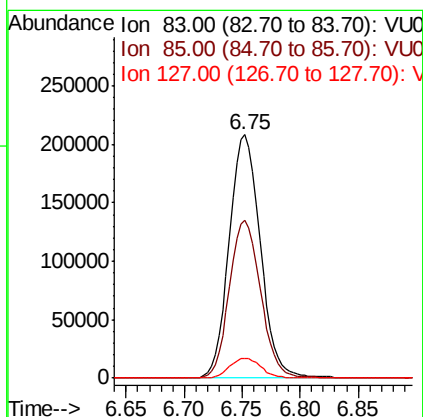
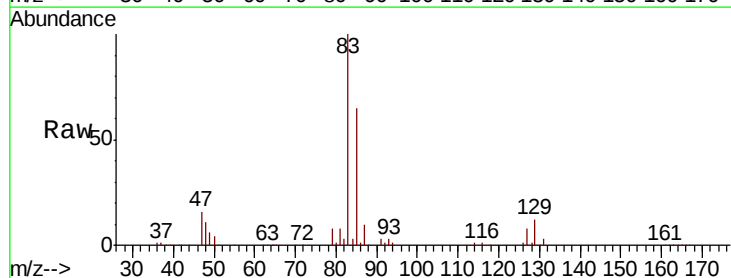
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

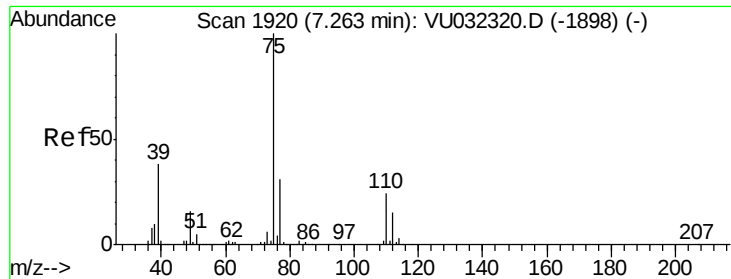
Tgt Ion: 63 Resp: 299341
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 45.621 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Tgt Ion: 83 Resp: 387773
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.4 84.2
 127 8.0 6.4 9.6

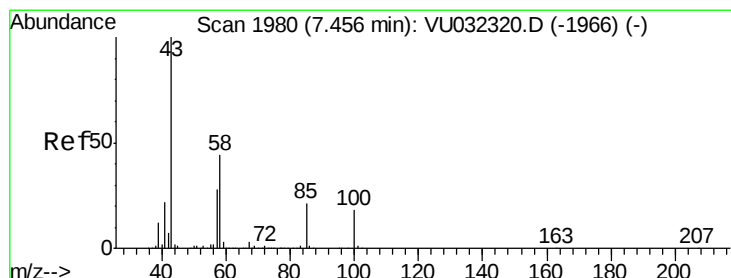
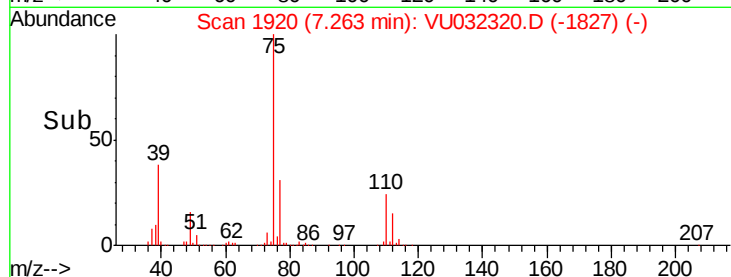
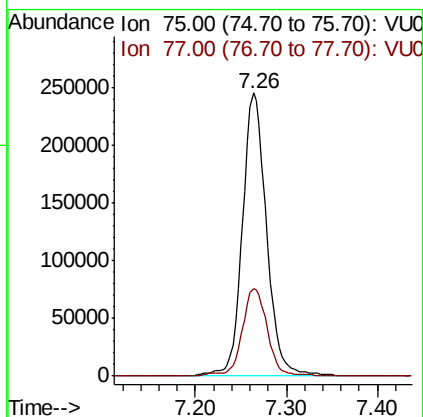
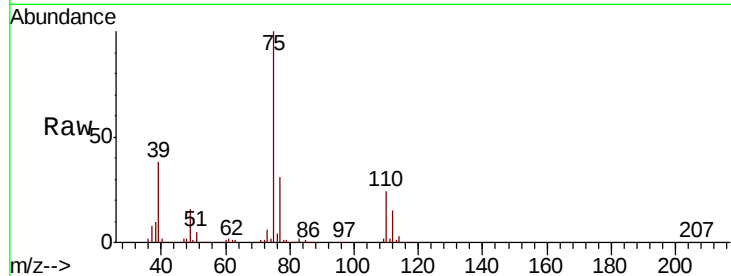




#39
 cis-1,3-Dichloropropene
 Concen: 49.965 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

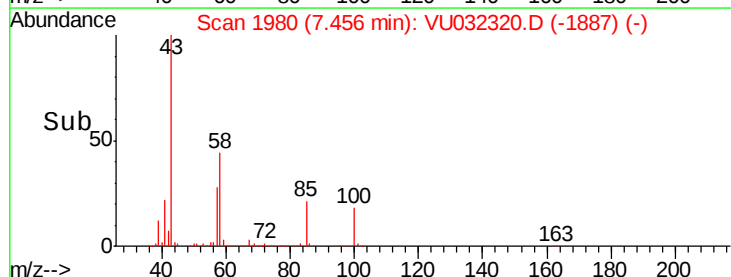
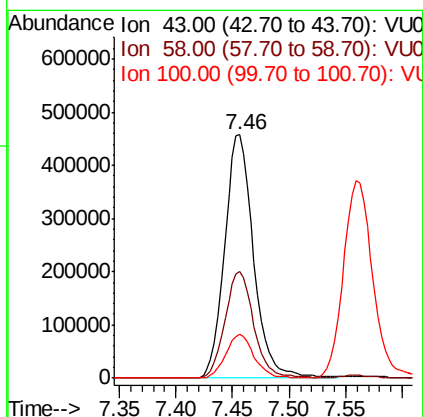
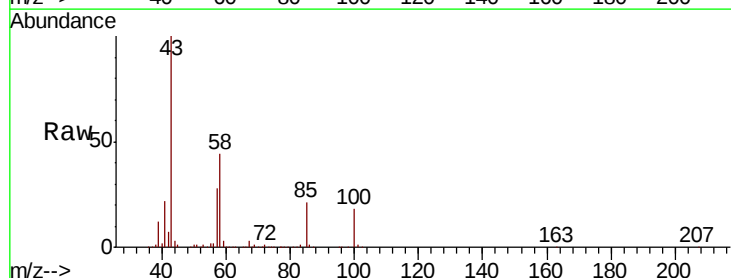
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05055

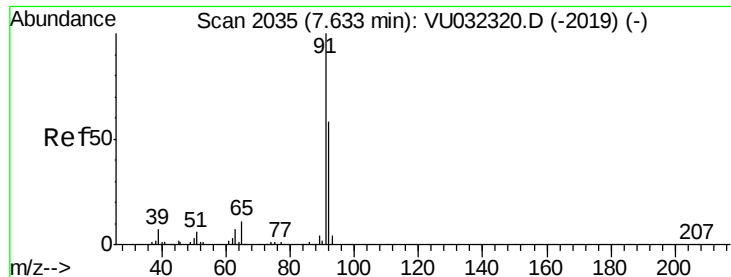
Tgt Ion: 75 Resp: 454678
 Ion Ratio Lower Upper
 75 100
 77 31.1 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 96.071 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Tgt Ion: 43 Resp: 815152
 Ion Ratio Lower Upper
 43 100
 58 43.3 34.6 52.0
 100 17.6 14.1 21.1





#42

Toluene

Concen: 50.830 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

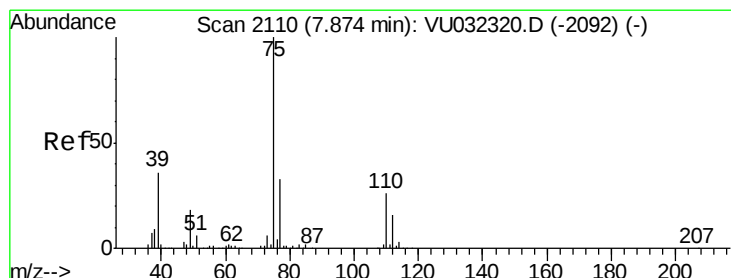
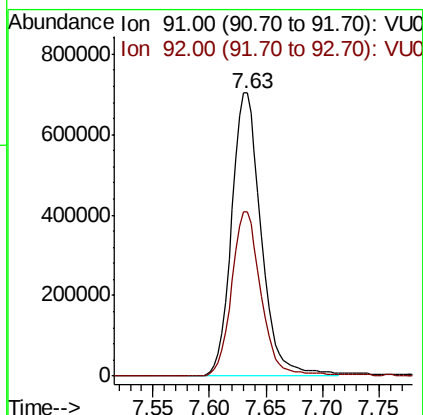
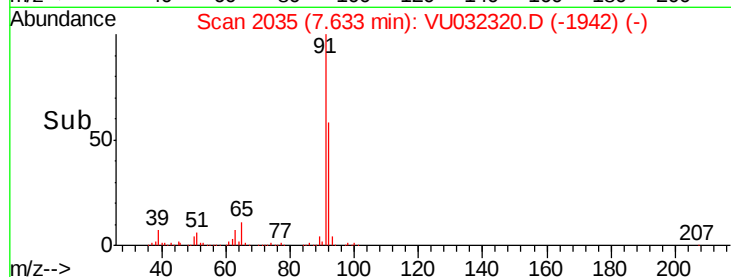
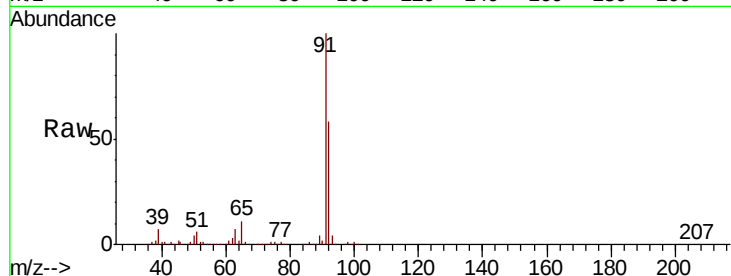
VSTD05055

Tgt Ion: 91 Resp: 1281136

Ion Ratio Lower Upper

91 100

92 58.2 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 49.923 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032320.D

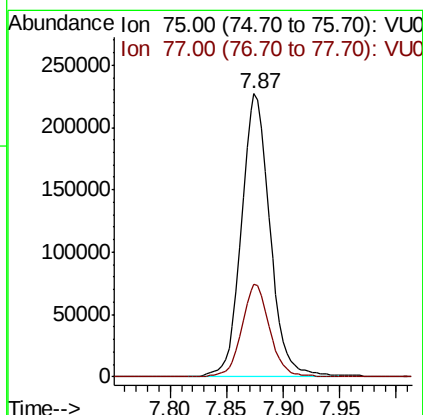
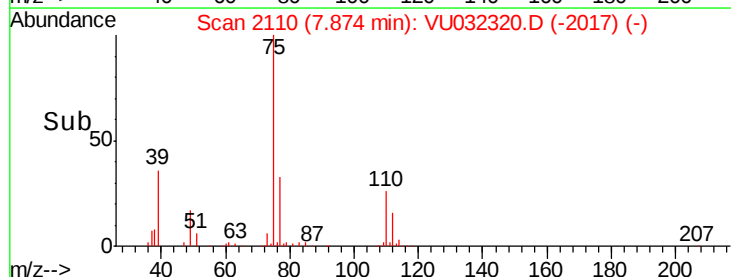
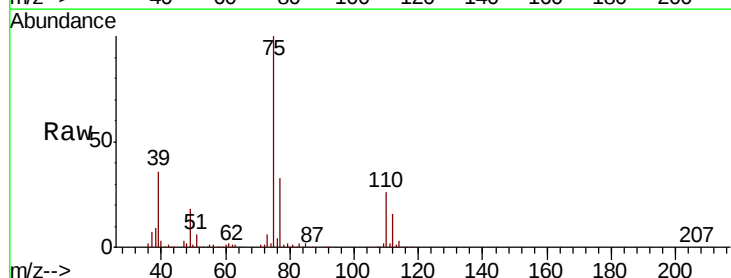
Acq: 28 May 2019 11:48

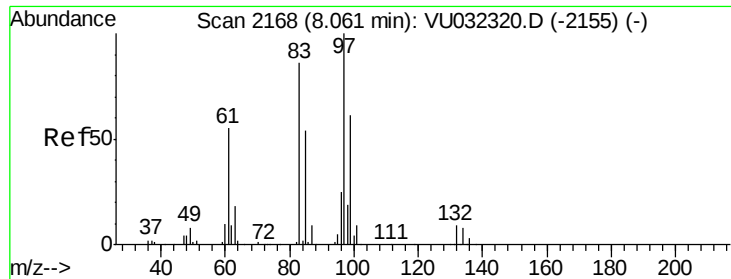
Tgt Ion: 75 Resp: 400131

Ion Ratio Lower Upper

75 100

77 32.8 23.0 42.6

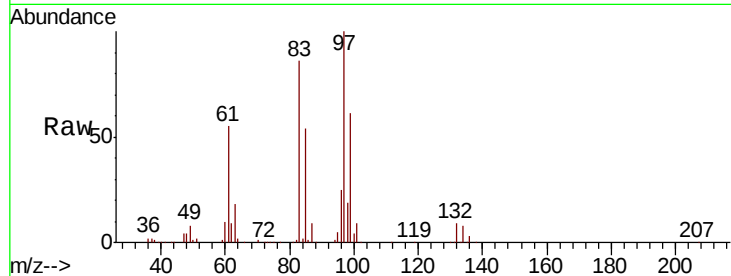




#45
 1,1,2-Trichloroethane
 Concen: 43.947 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion:	97	Resp:	294640
Ion	Ratio	Lower	Upper
97	100		
99	60.8	42.6	79.0
83	86.2	60.3	112.1
85	54.5	38.1	70.9



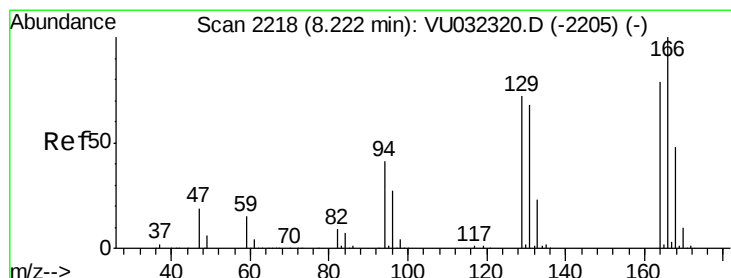
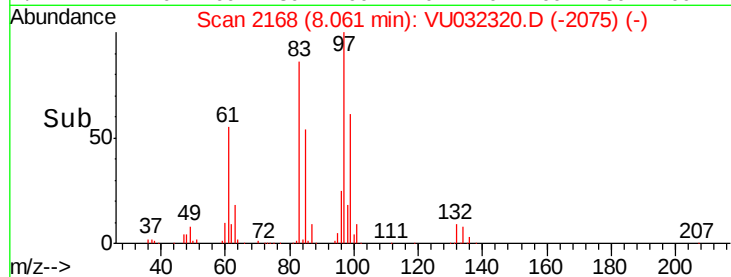
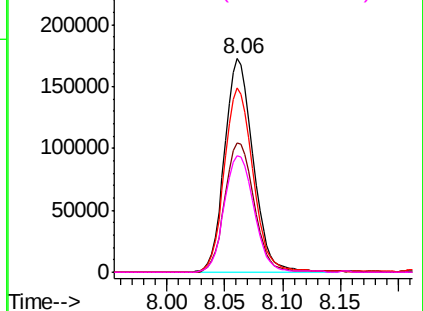
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

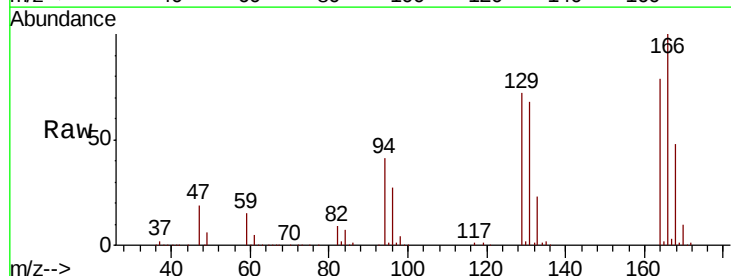
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 53.535 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Tgt Ion:	164	Resp:	243477
Ion	Ratio	Lower	Upper
164	100		
129	91.3	63.9	118.7
131	86.3	60.4	112.2
166	126.2	88.3	164.1



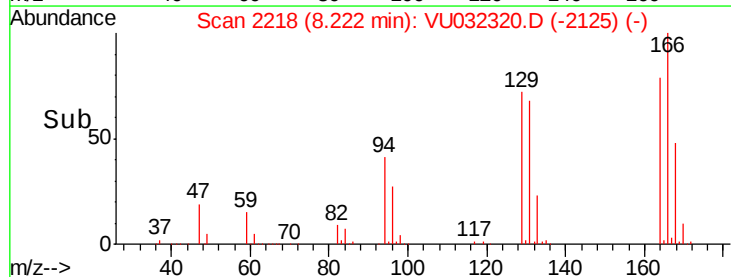
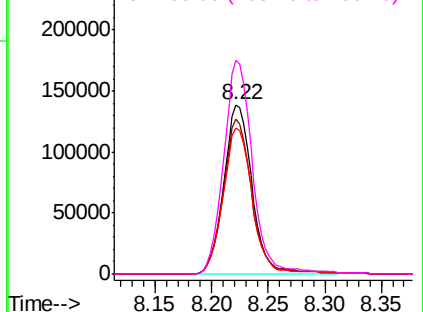
Abundance

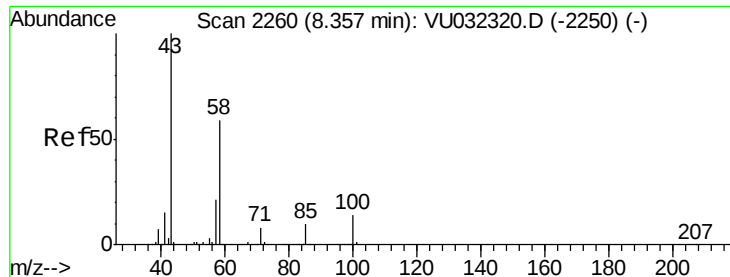
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

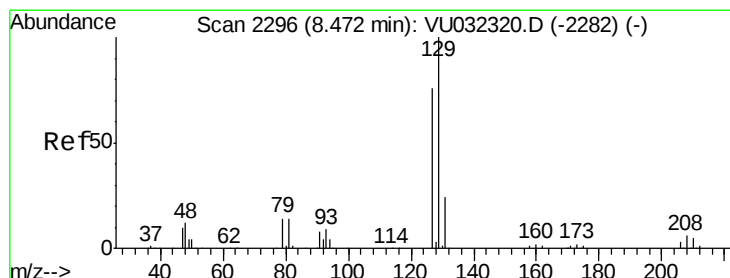
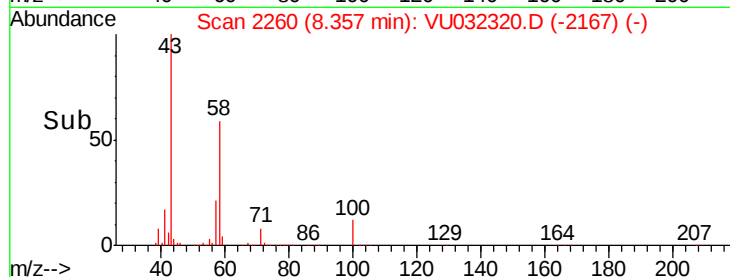
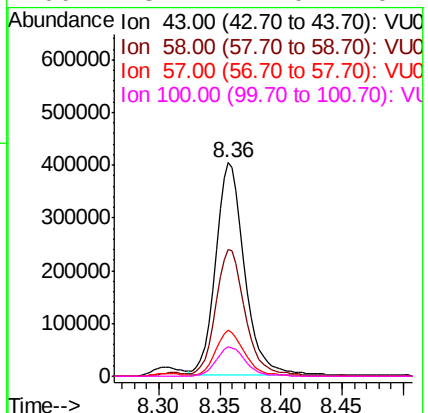
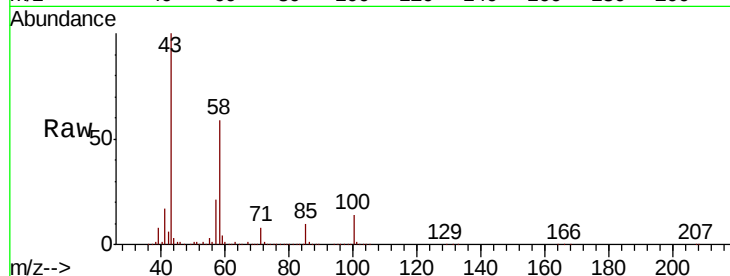




#48
2-Hexanone
Concen: 100.660 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032320.D
Acq: 28 May 2019 11:48

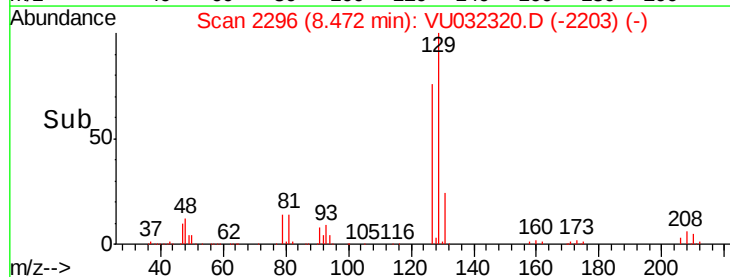
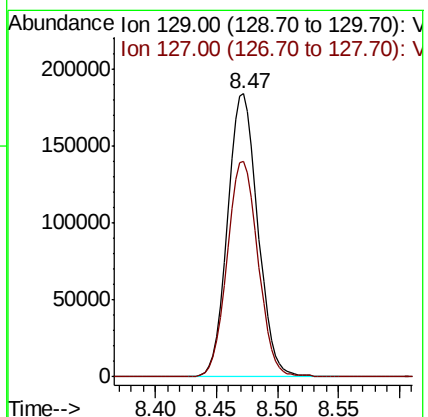
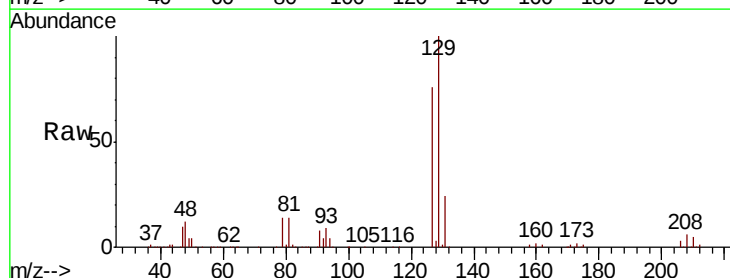
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

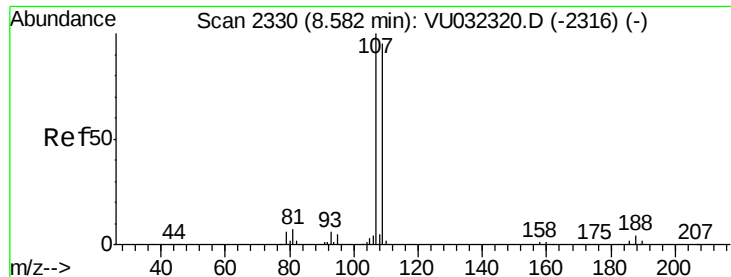
Tgt Ion: 43 Resp: 670916
Ion Ratio Lower Upper
43 100
58 60.8 48.6 73.0
57 21.2 17.0 25.4
100 13.7 11.0 16.4



#49
Dibromochloromethane
Concen: 44.891 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032320.D
Acq: 28 May 2019 11:48

Tgt Ion: 129 Resp: 320020
Ion Ratio Lower Upper
129 100
127 76.2 53.3 99.1

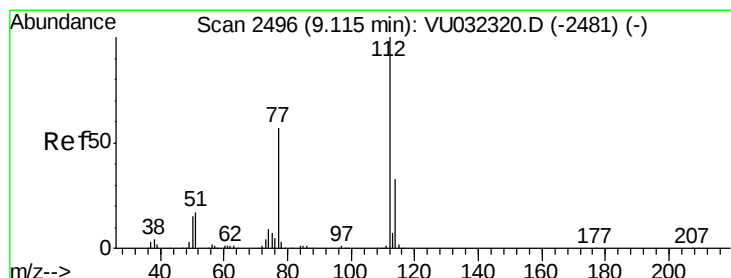
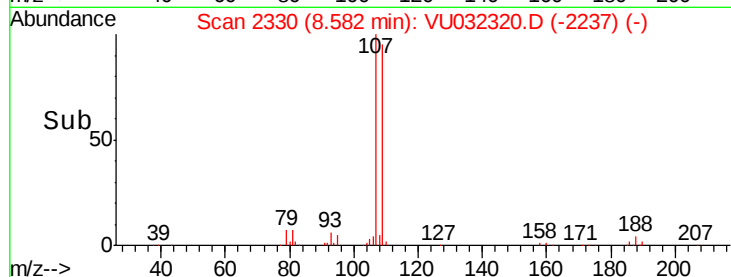
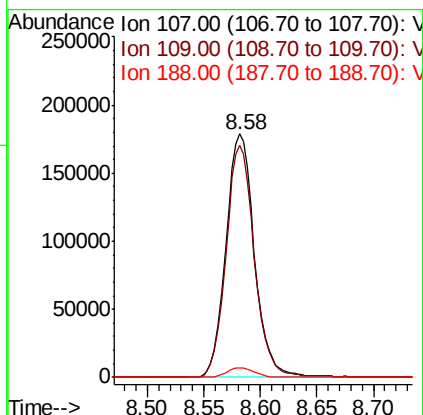
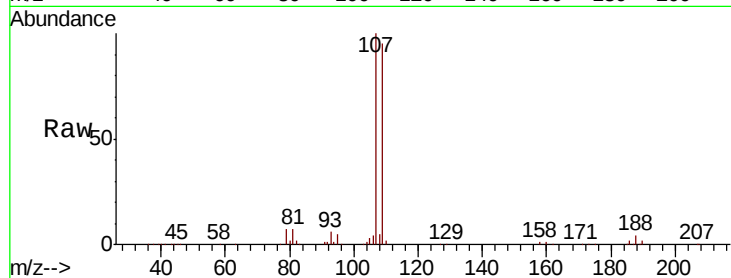




#50
 1,2-Dibromoethane
 Concen: 43.610 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

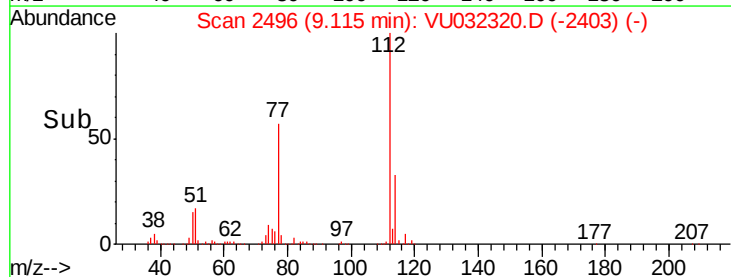
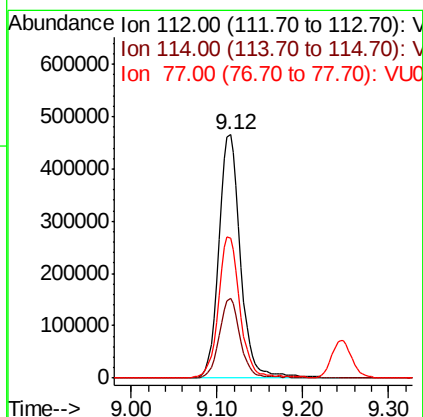
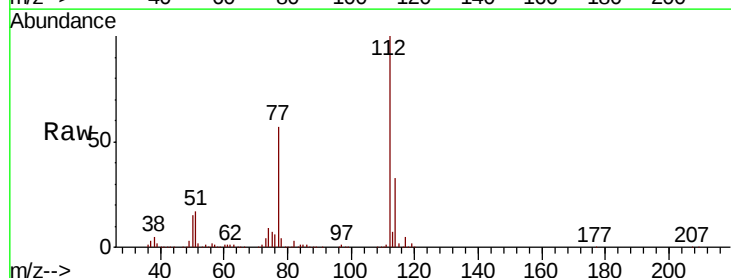
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

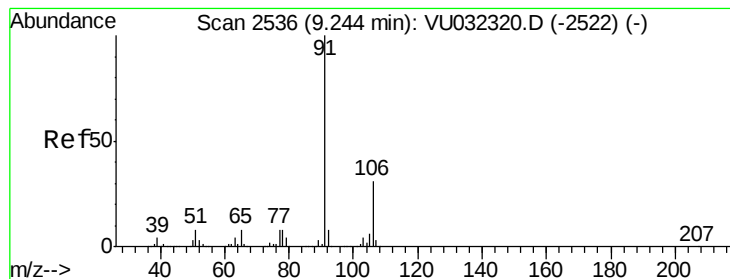
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.3	66.7	123.9
188	3.8	3.0	4.6



#51
 Chlorobenzene
 Concen: 48.500 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.9	42.5
77	57.3	45.8	68.8





#52

Ethylbenzene

Concen: 53.565 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

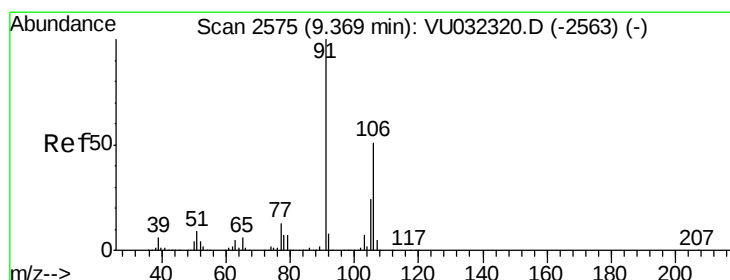
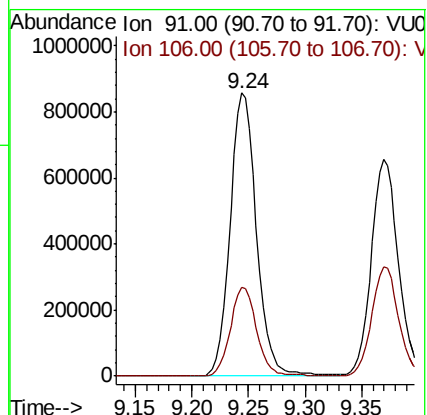
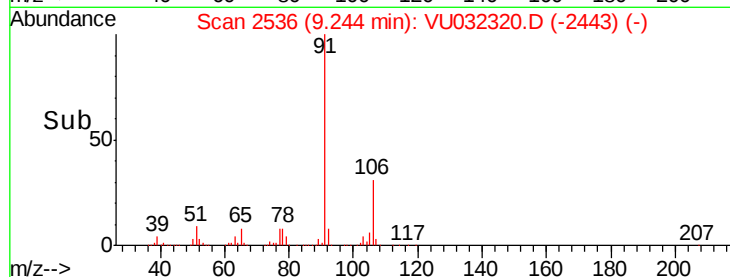
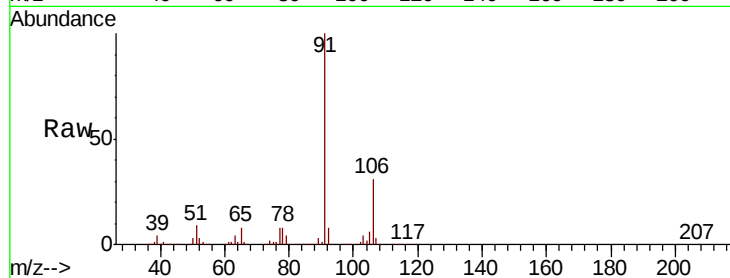
VSTD05055

Tgt Ion: 91 Resp: 1393269

Ion Ratio Lower Upper

91 100

106 31.4 22.0 40.8



#53

m,p-Xylene

Concen: 54.277 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032320.D

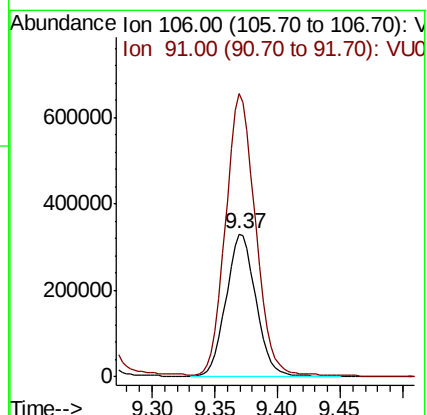
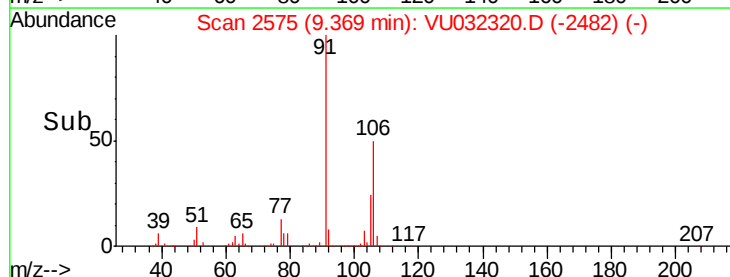
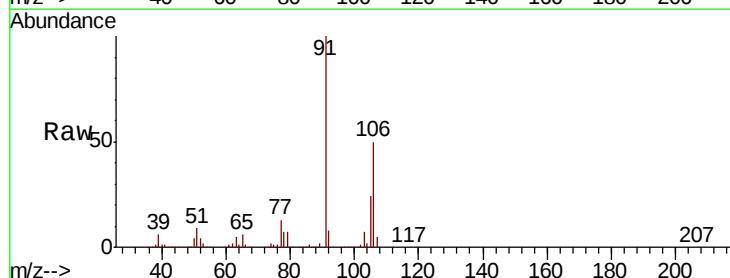
Acq: 28 May 2019 11:48

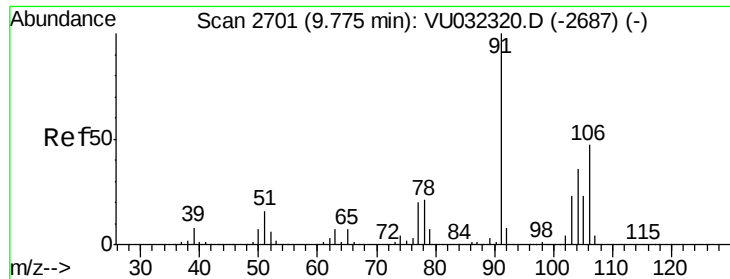
Tgt Ion: 106 Resp: 545062

Ion Ratio Lower Upper

106 100

91 198.3 138.8 257.8





#54

o-xylene

Concen: 52.141 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

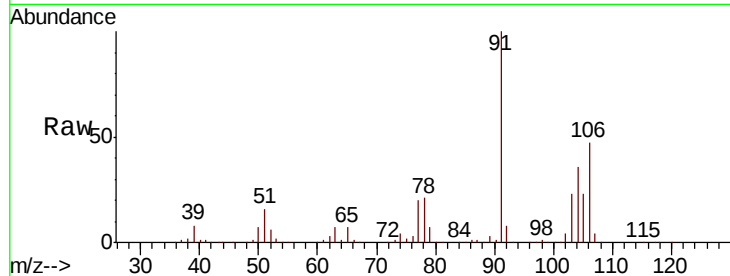
VSTD05055

Tgt Ion:106 Resp: 540506

Ion Ratio Lower Upper

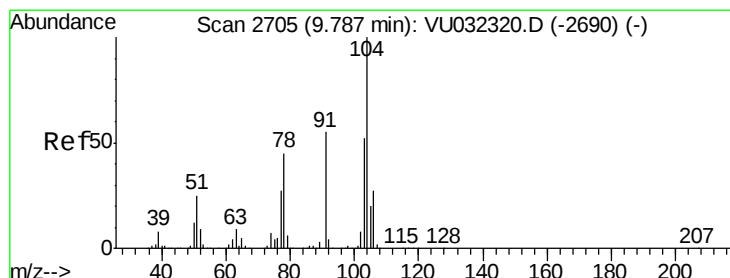
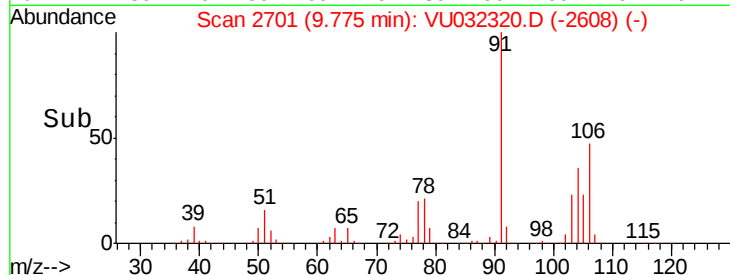
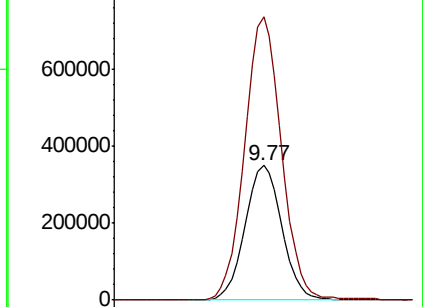
106 100

91 210.7 147.5 273.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.864 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032320.D

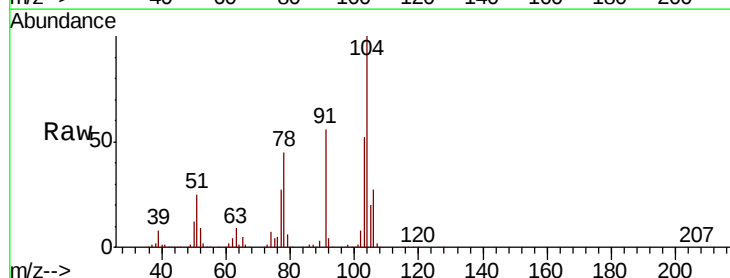
Acq: 28 May 2019 11:48

Tgt Ion:104 Resp: 933612

Ion Ratio Lower Upper

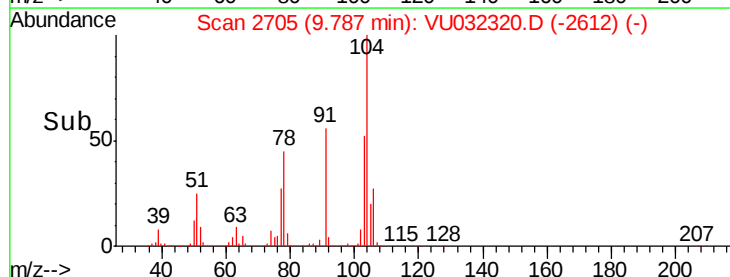
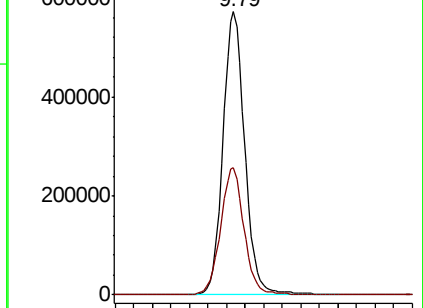
104 100

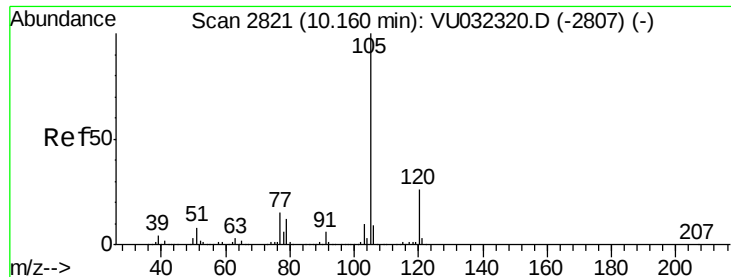
78 45.0 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 56.312 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

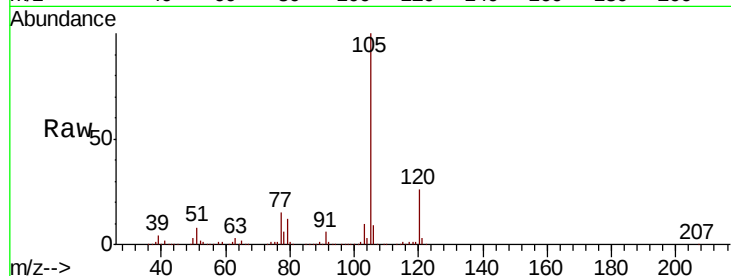
Tgt Ion:105 Resp: 1387766

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

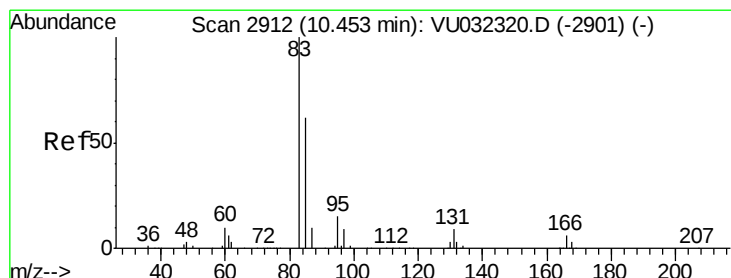
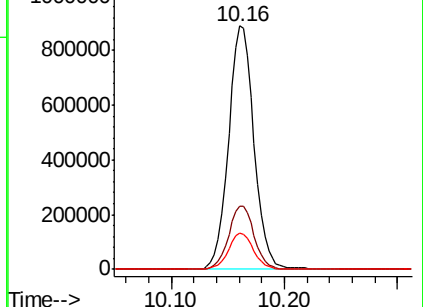
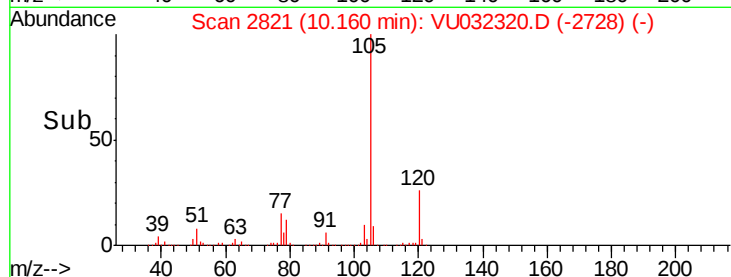
77 14.7 11.8 17.6



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: 43.880 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

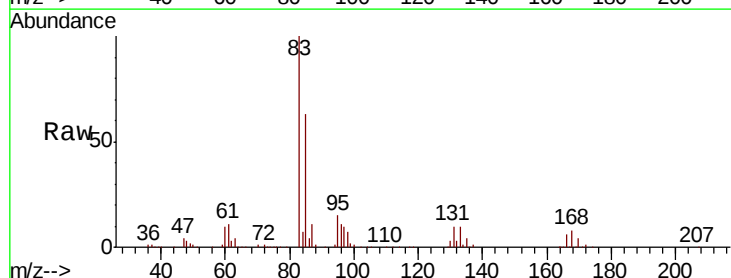
Tgt Ion: 83 Resp: 500992

Ion Ratio Lower Upper

83 100

85 63.3 44.3 82.3

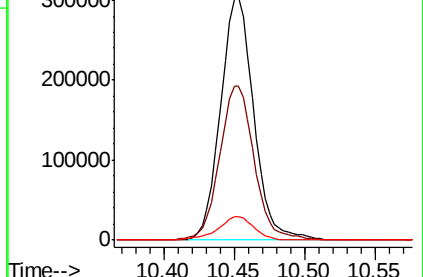
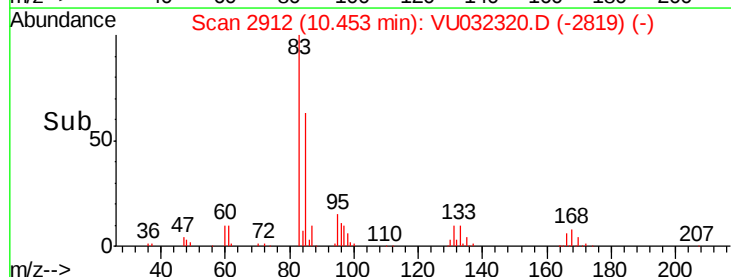
131 9.5 7.6 11.4

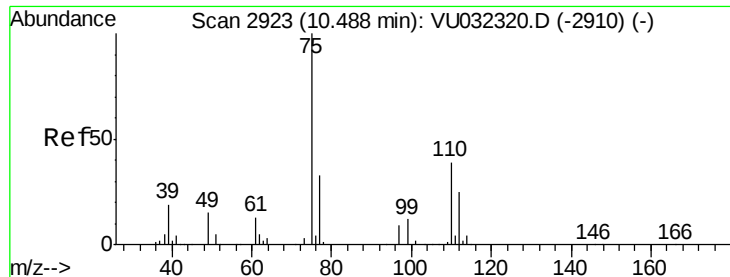


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 43.663 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

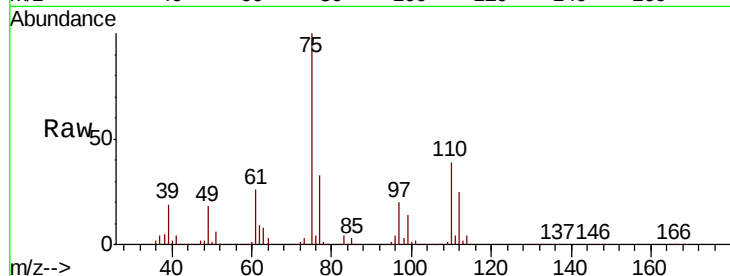
VSTD05055

Tgt Ion: 75 Resp: 392568

Ion Ratio Lower Upper

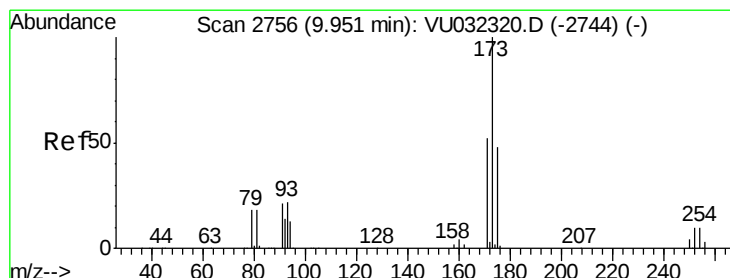
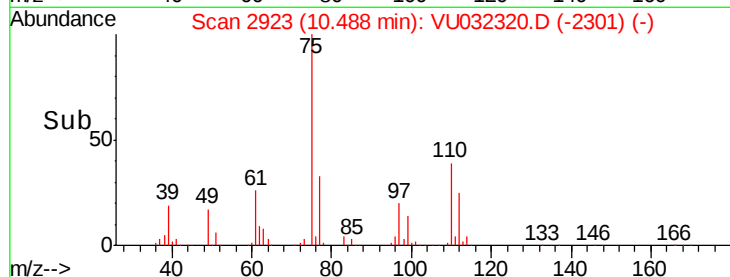
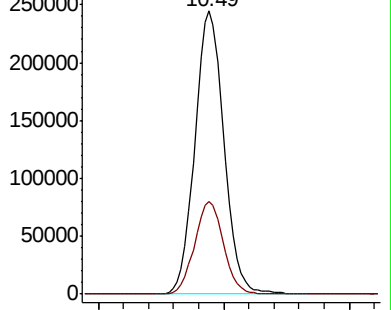
75 100

77 32.3 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU032320.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU032320.D (-2910) (-)



#61

Bromoform

Concen: 41.050 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

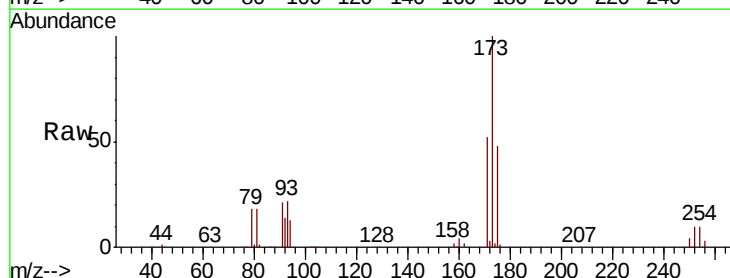
Tgt Ion: 173 Resp: 246526

Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

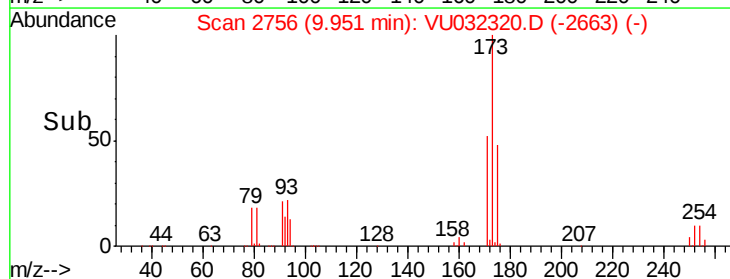
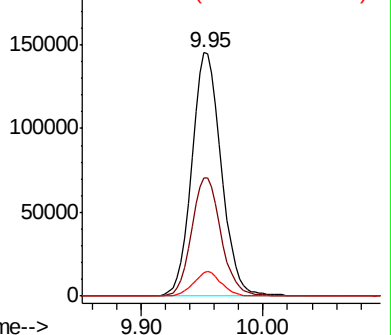
254 9.4 7.5 11.3

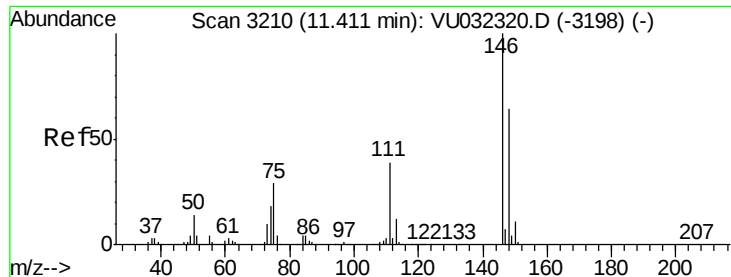


Abundance Ion 173.00 (172.70 to 173.70): VU032320.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU032320.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU032320.D (-2744) (-)





#62

1,3-Dichlorobenzene

Concen: 47.486 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

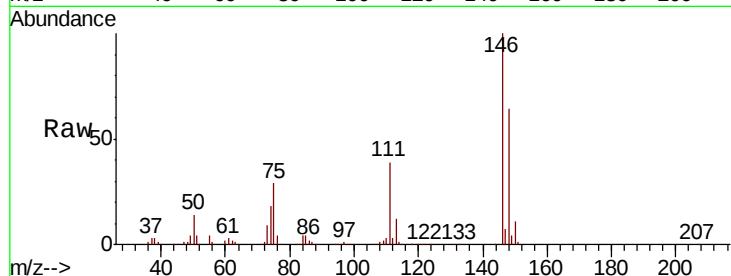
Tgt Ion:146 Resp: 622353

Ion Ratio Lower Upper

146 100

111 39.4 27.6 51.2

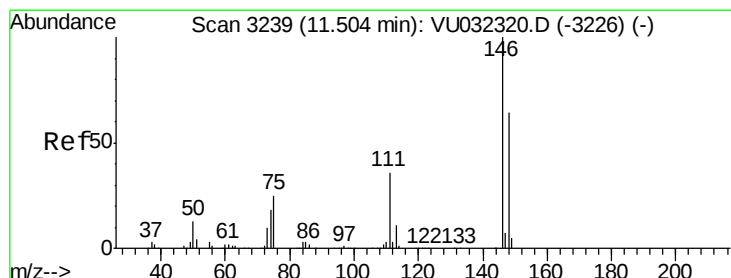
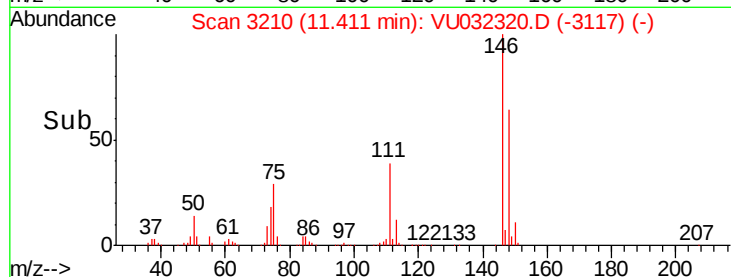
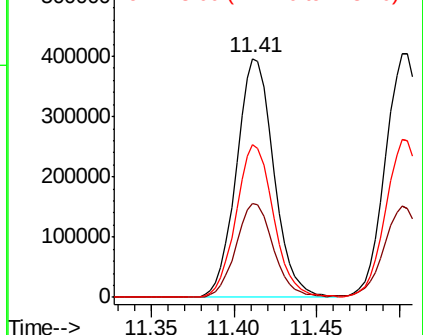
148 63.8 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.866 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

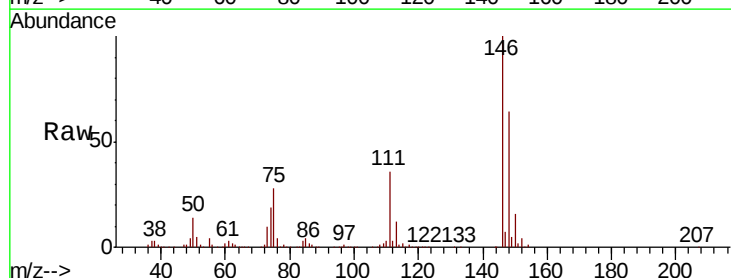
Tgt Ion:146 Resp: 653341

Ion Ratio Lower Upper

146 100

111 36.5 25.6 47.4

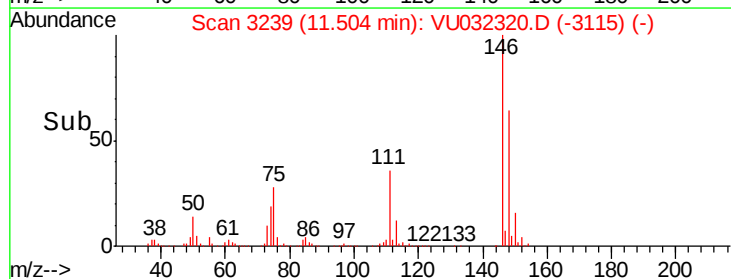
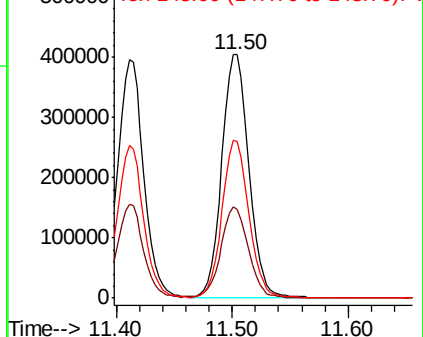
148 64.3 45.0 83.6

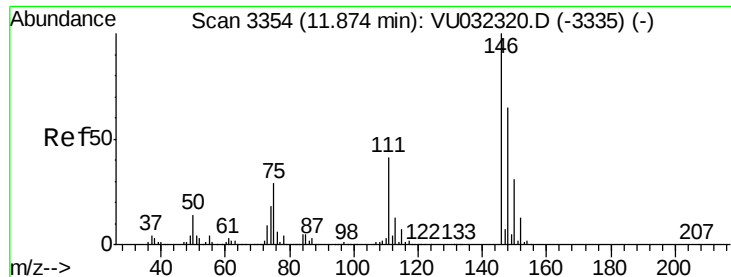


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

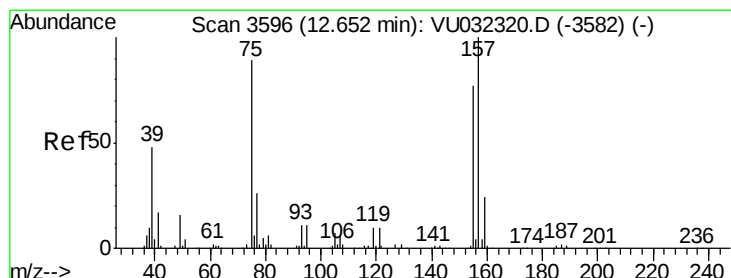
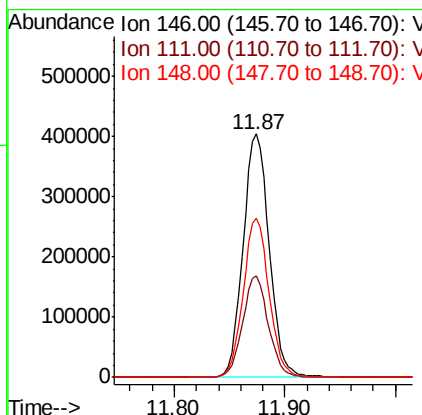
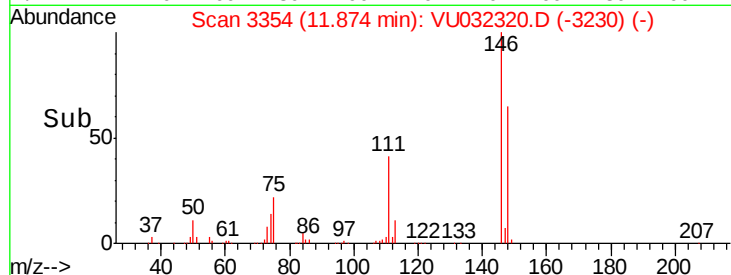
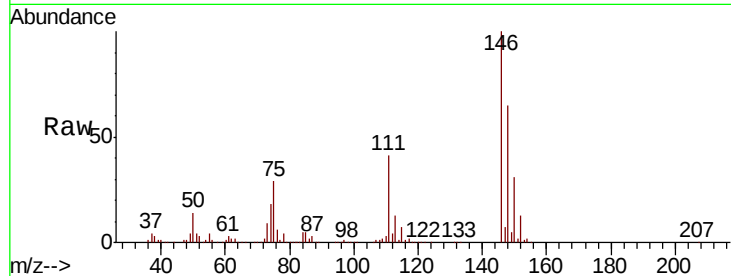




#65
 1,2-Dichlorobenzene
 Concen: 46.777 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

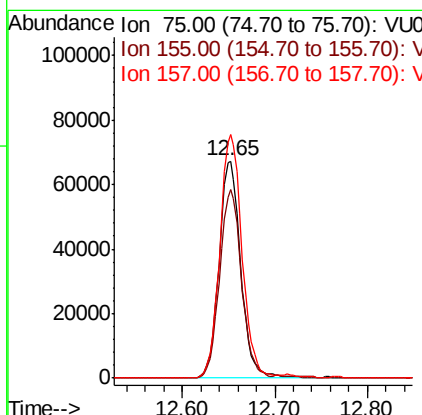
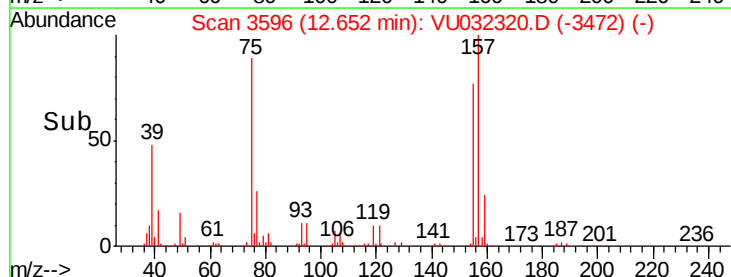
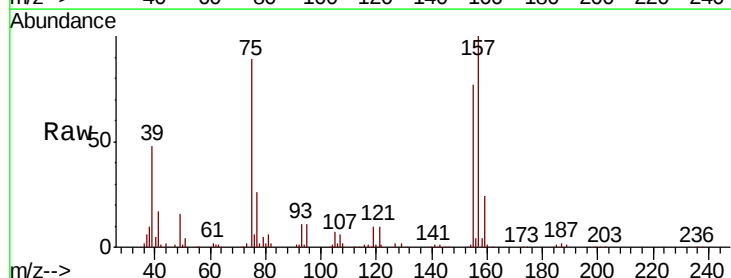
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05055

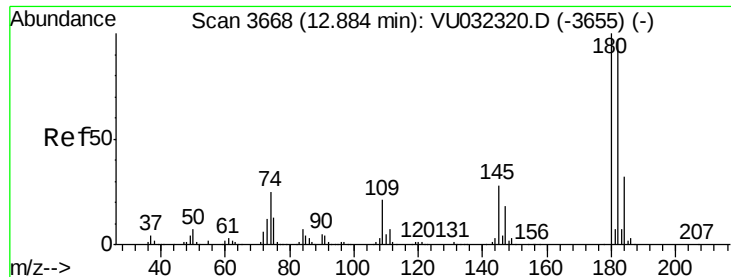
Tgt Ion: 146 Resp: 661498
 Ion Ratio Lower Upper
 146 100
 111 41.4 33.1 49.7
 148 65.4 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.339 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Tgt Ion: 75 Resp: 109821
 Ion Ratio Lower Upper
 75 100
 155 86.9 69.5 104.3
 157 112.2 89.8 134.6

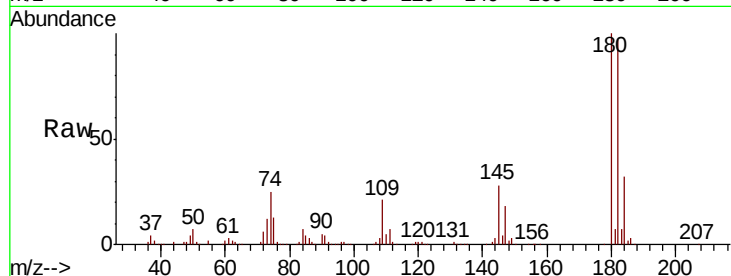




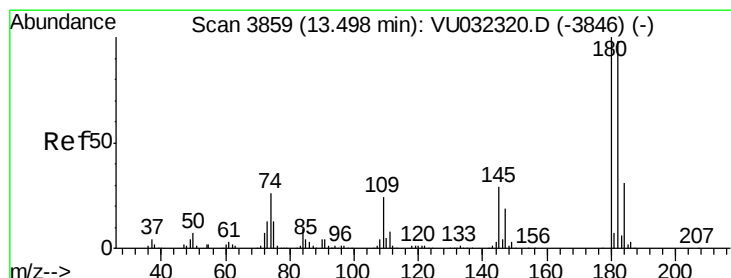
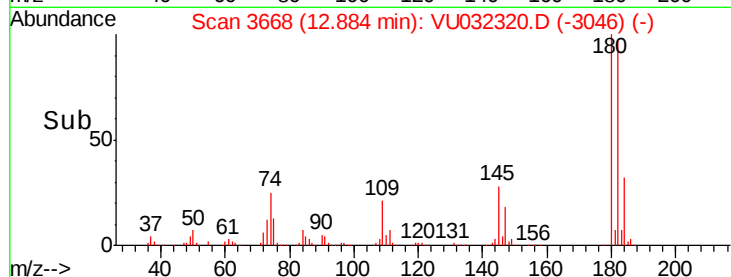
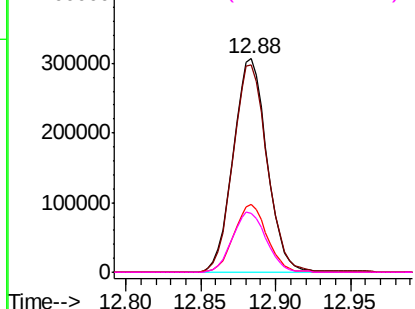
#67
 1,3,5-Trichlorobenzene
 Concen: 51.692 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion:180 Resp: 483571
 Ion Ratio Lower Upper
 180 100
 182 97.9 78.3 117.5
 184 31.2 25.0 37.4
 145 28.2 22.6 33.8

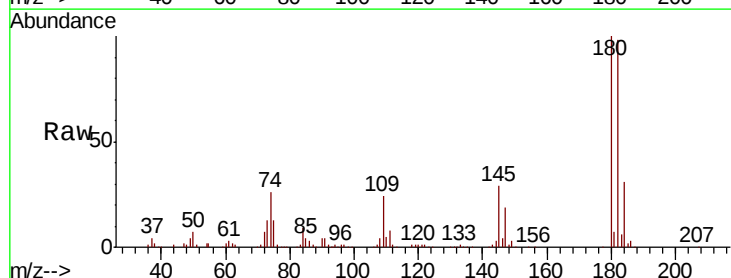


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

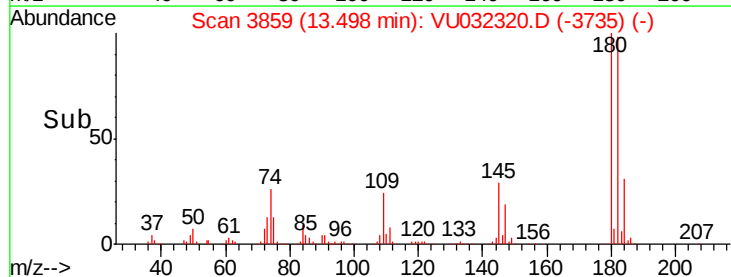
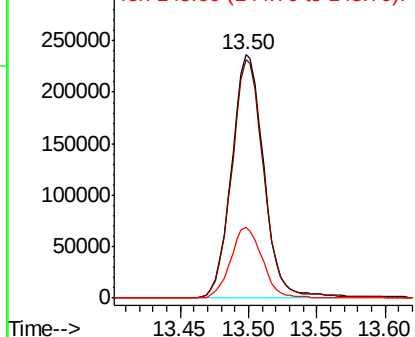


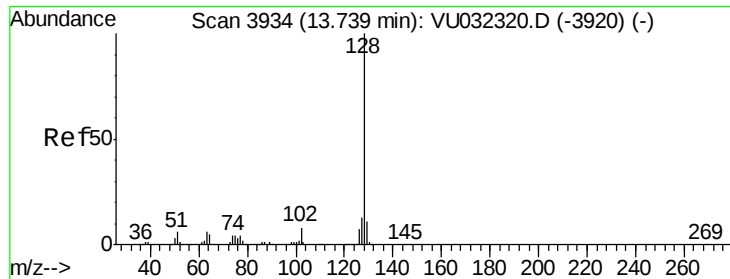
#68
 1,2,4-trichlorobenzene
 Concen: 52.601 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032320.D
 Acq: 28 May 2019 11:48

Tgt Ion:180 Resp: 387215
 Ion Ratio Lower Upper
 180 100
 182 97.8 78.2 117.4
 145 28.7 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: 48.279 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

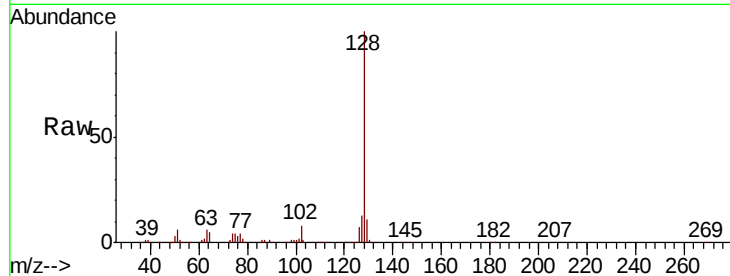
Tgt Ion:128 Resp: 1215118

Ion Ratio Lower Upper

128 100

127 12.6 10.1 15.1

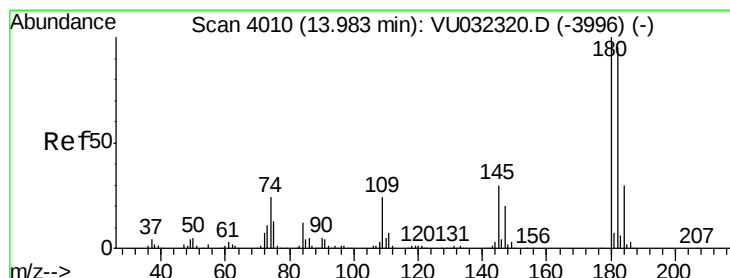
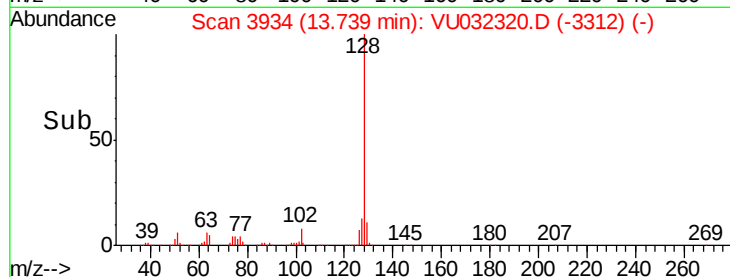
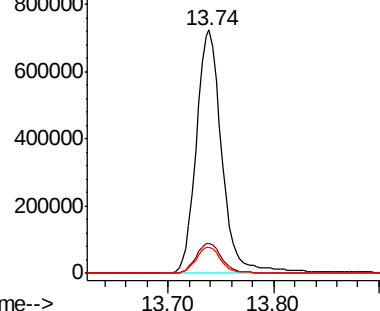
129 10.9 8.7 13.1



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: 50.055 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032320.D

Acq: 28 May 2019 11:48

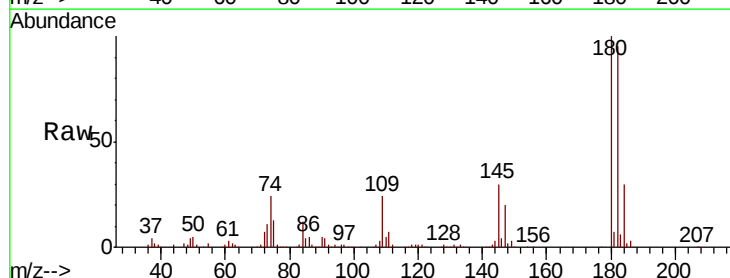
Tgt Ion:180 Resp: 419461

Ion Ratio Lower Upper

180 100

182 97.1 77.7 116.5

145 30.4 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

