

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071718\
 Data File : VU025455.D
 Acq On : 17 Jul 2018 12:20
 Operator : MD/SY
 Sample : VSTD05043
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Quant Time: Jul 18 05:25:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 18 05:25:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	343261	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	317104	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	153406	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	80316	49.61	ug/L	0.00
7) Chloroethane-d5	1.68	69	65647	47.60	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	172577	48.55	ug/L	0.00
21) 2-Butanone-d5	4.18	46	178934	103.88	ug/L	0.00
24) Chloroform-d	4.65	84	211208	50.30	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	142927	50.01	ug/L	0.00
32) Benzene-d6	5.34	84	388019	50.63	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	127285	50.16	ug/L	0.00
41) Toluene-d8	7.57	98	370073	49.89	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	66631	50.44	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	133611	101.55	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	188312	49.98	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	153362	49.89	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	131104	46.424	ug/L 100
3) Chloromethane	1.33	50	119097	47.655	ug/L 100
5) Vinyl chloride	1.40	62	122247	48.650	ug/L 100
6) Bromomethane	1.63	94	67963	49.625	ug/L 100
8) Chloroethane	1.70	64	71446	47.512	ug/L 100
9) Trichlorofluoromethane	1.89	101	174576	47.258	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	88635	44.192	ug/L 100
12) 1,1-Dichloroethene	2.28	96	89487	48.098	ug/L 100
13) Acetone	2.34	43	132381	87.284	ug/L 100
14) Carbon disulfide	2.48	76	283711	47.191	ug/L 100
15) Methyl Acetate	2.62	43	137259	49.377	ug/L 100
16) Methylene chloride	2.70	84	118555	48.726	ug/L 100
17) trans-1,2-Dichloroethene	2.98	96	106796	48.529	ug/L 100
18) Methyl tert-butyl Ether	3.00	73	392461	50.331	ug/L 100
19) 1,1-Dichloroethane	3.45	63	217032	49.300	ug/L 100
20) cis-1,2-Dichloroethene	4.23	96	130557	48.455	ug/L 100
22) 2-Butanone	4.27	43	204173	98.614	ug/L 100
23) Bromochloromethane	4.55	128	68268	50.551	ug/L 100
25) Chloroform	4.68	83	229889	49.697	ug/L 100
27) 1,2-Dichloroethane	5.41	62	190520	49.595	ug/L 100
29) Cyclohexane	5.00	56	174263	47.722	ug/L 100
30) 1,1,1-Trichloroethane	4.92	97	206922	49.035	ug/L 100
31) Carbon tetrachloride	5.14	117	184392	49.739	ug/L 100
33) Benzene	5.39	78	461371	49.180	ug/L 100
34) Trichloroethene	6.19	95	119879	48.272	ug/L 100
35) Methylcyclohexane	6.42	83	166196	44.079	ug/L 100
37) 1,2-Dichloropropane	6.44	63	129565	50.066	ug/L 100
38) Bromodichloromethane	6.76	83	174271	49.874	ug/L 100
39) cis-1,3-Dichloropropene	7.27	75	205710	51.303	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	372893	99.351	ug/L 100

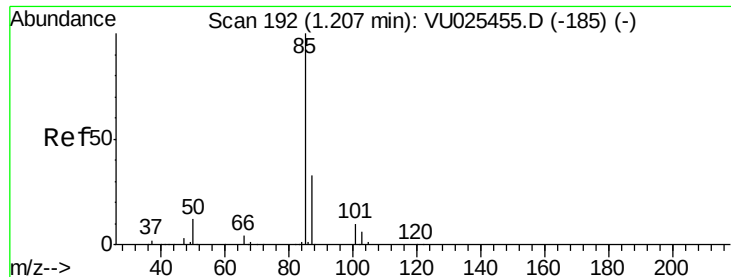
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071718\
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 QLast Update : Wed Jul 18 05:25:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	489367	48.923	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	191887	49.850	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	121488	49.513	ug/L	100
46) Tetrachloroethene	8.23	164	94298	45.518	ug/L	100
48) 2-Hexanone	8.36	43	297336	99.155	ug/L	100
49) Dibromochloromethane	8.48	129	148762	50.084	ug/L	100
50) 1,2-Dibromoethane	8.59	107	134778	49.766	ug/L	100
51) Chlorobenzene	9.12	112	324691	48.376	ug/L	100
52) Ethylbenzene	9.25	91	538851	48.258	ug/L	100
53) m,p-Xylene	9.38	106	205083	47.919	ug/L	100
54) o-xylene	9.78	106	209939	48.624	ug/L	100
55) Styrene	9.80	104	351008	49.223	ug/L	100
56) Isopropylbenzene	10.17	105	536882	48.017	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	205265	48.591	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	166528	48.389	ug/L	100
61) Bromoform	9.96	173	112064	51.787	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	243138	47.821	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	244589	47.603	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	261129	48.639	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	51319	51.078	ug/L	100
67) 1,3,5-Trichlorobenzene	12.89	180	176683	45.210	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	161304	46.288	ug/L	100
69) Naphthalene	13.75	128	608642	50.478	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	181792	48.370	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 46.424 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

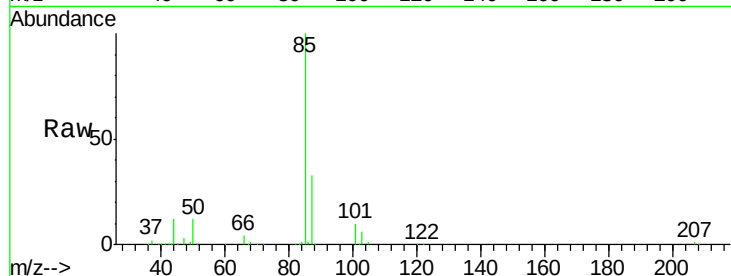
VSTD05043

Tgt Ion: 85 Resp: 131104

Ion Ratio Lower Upper

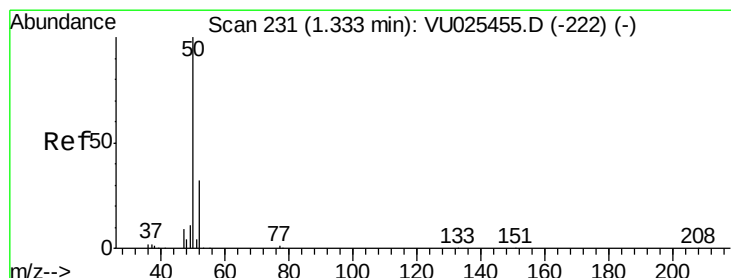
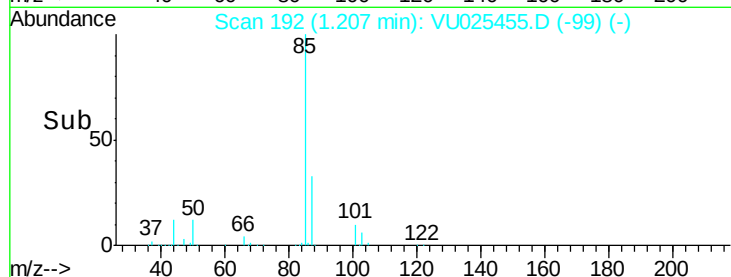
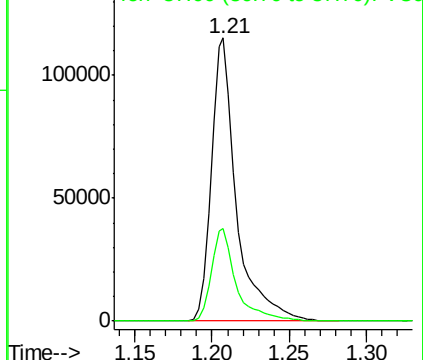
85 100

87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 47.655 ug/L

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025455.D

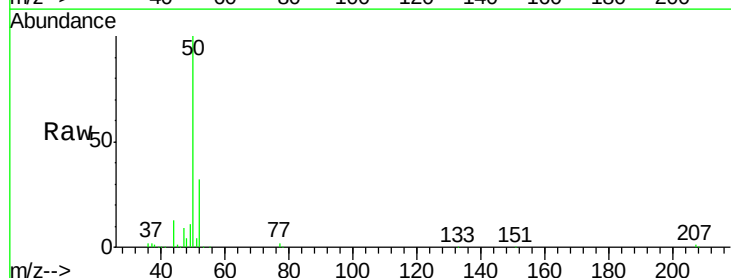
Acq: 17 Jul 2018 12:20

Tgt Ion: 50 Resp: 119097

Ion Ratio Lower Upper

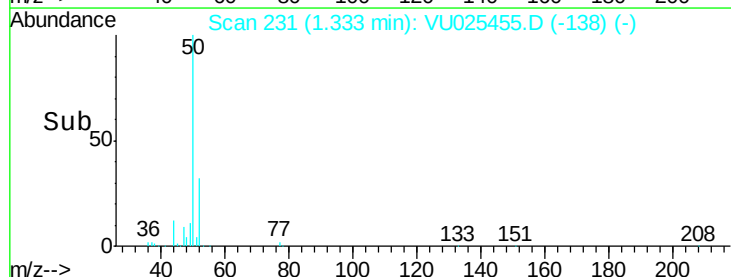
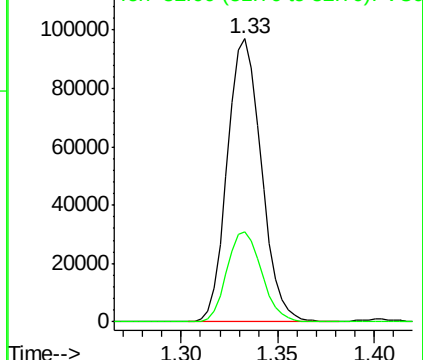
50 100

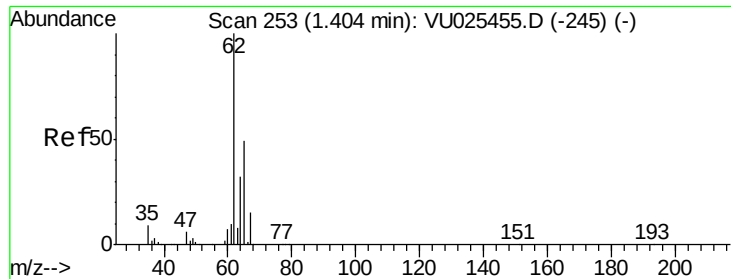
52 32.0 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 48.650 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

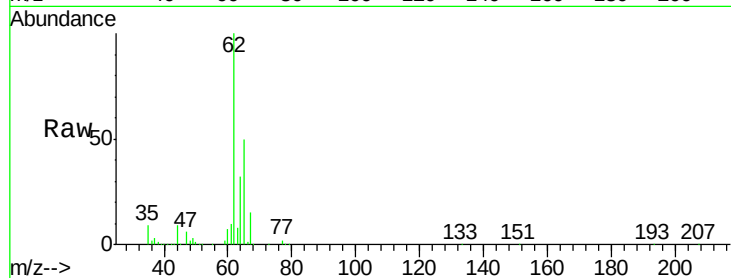
VSTD05043

Tgt Ion: 62 Resp: 122247

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

40000

20000

0

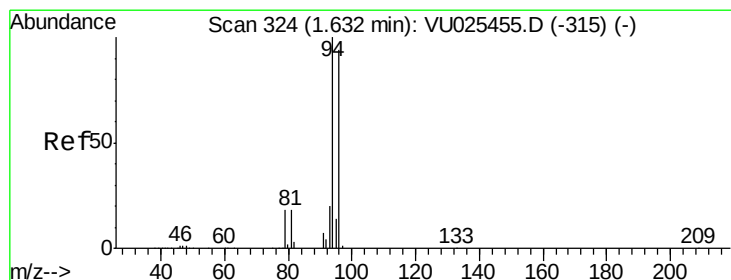
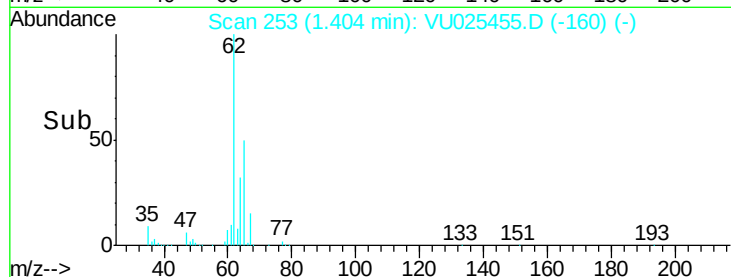
1.35

1.40

1.45

1.50

Time-->



#6

Bromomethane

Concen: 49.625 ug/L

RT: 1.63 min Scan# 324

Delta R.T. 0.00 min

Lab File: VU025455.D

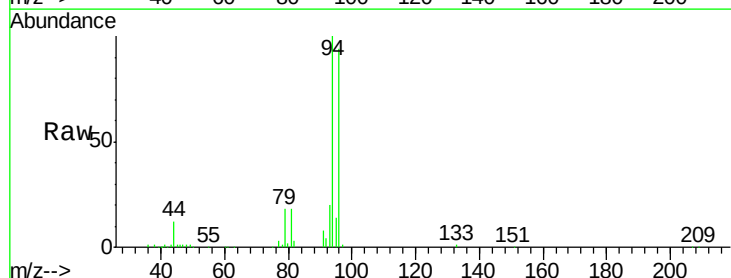
Acq: 17 Jul 2018 12:20

Tgt Ion: 94 Resp: 67963

Ion Ratio Lower Upper

94 100

96 94.0 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

40000

20000

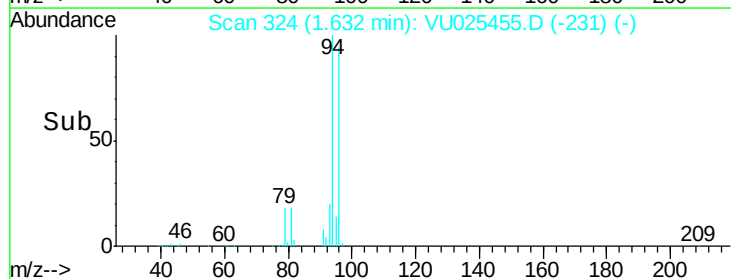
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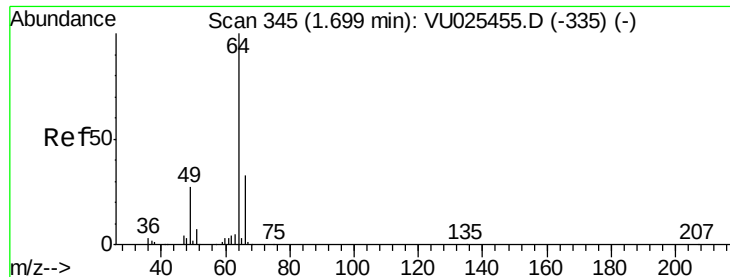
1.60

1.63

1.65

Time-->





#8

Chloroethane

Concen: 47.512 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

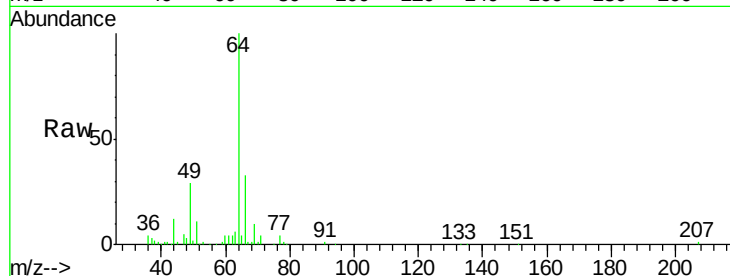
VSTD05043

Tgt Ion: 64 Resp: 71446

Ion Ratio Lower Upper

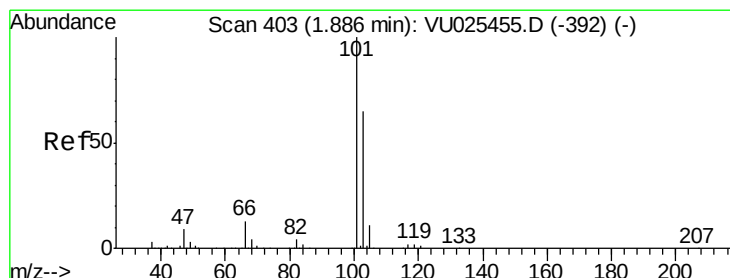
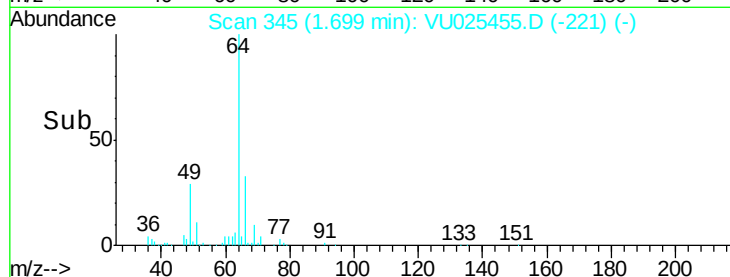
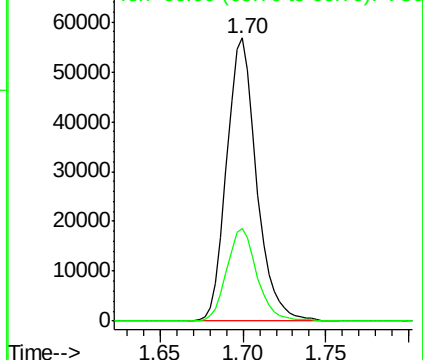
64 100

66 32.9 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 47.258 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU025455.D

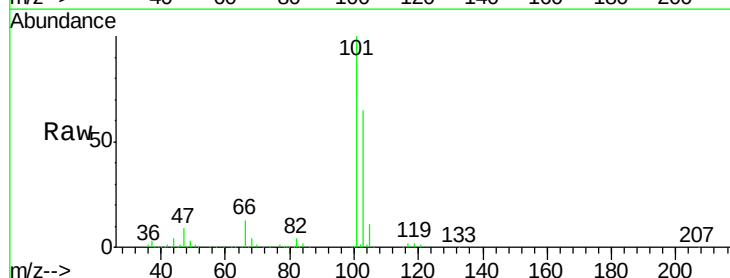
Acq: 17 Jul 2018 12:20

Tgt Ion: 101 Resp: 174576

Ion Ratio Lower Upper

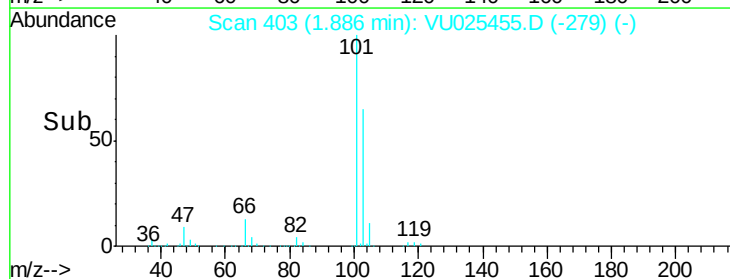
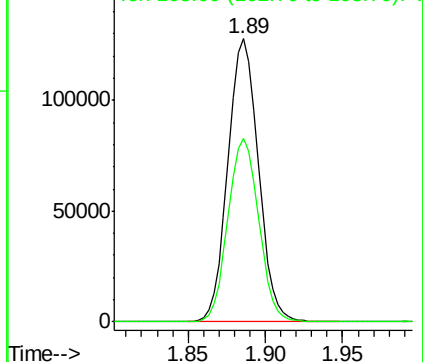
101 100

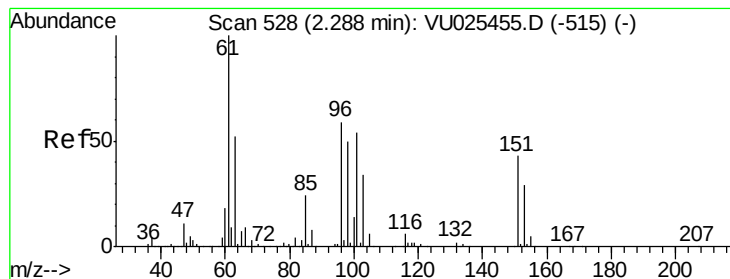
103 65.4 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 44.192 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

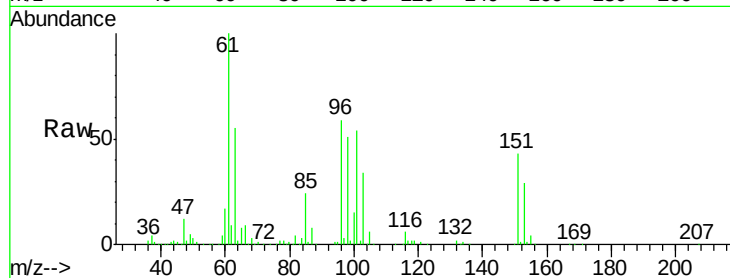
Tgt Ion:101 Resp: 88635

Ion Ratio Lower Upper

101 100

85 44.3 35.4 53.2

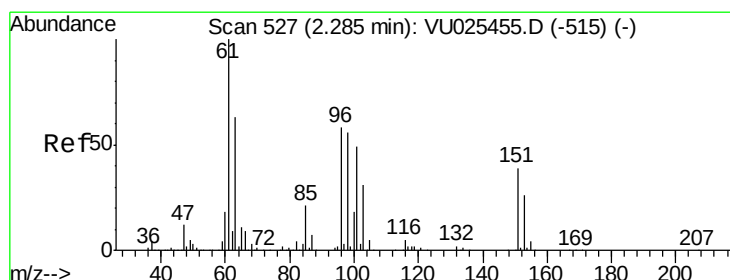
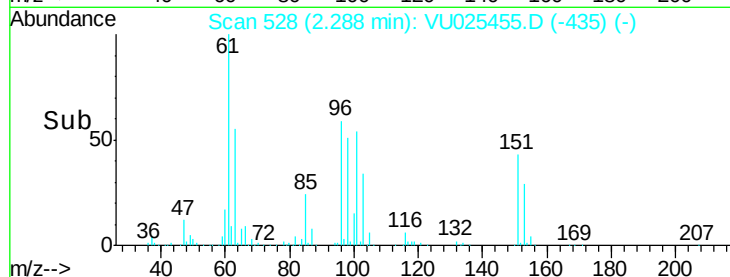
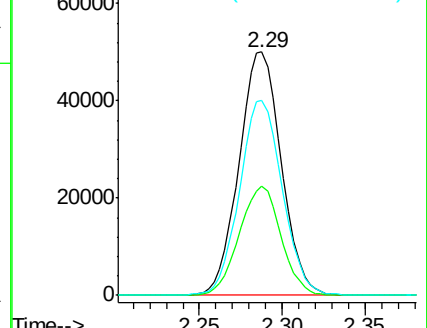
151 81.2 65.0 97.4



Abundance Ion 101.00 (100.70 to 101.70): VU025455.D (-515) (-)

Ion 85.00 (84.70 to 85.70): VU025455.D (-515) (-)

Ion 151.00 (150.70 to 151.70): VU025455.D (-515) (-)



#12

1,1-Dichloroethene

Concen: 48.098 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

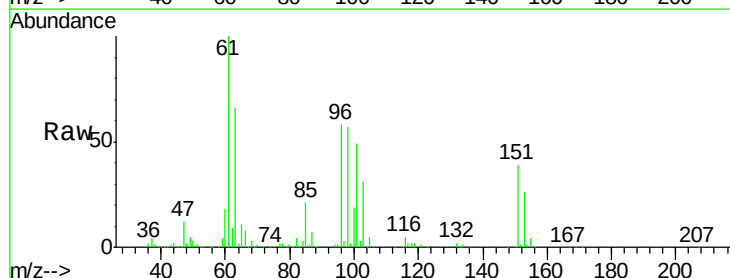
Tgt Ion: 96 Resp: 89487

Ion Ratio Lower Upper

96 100

61 172.3 120.6 224.0

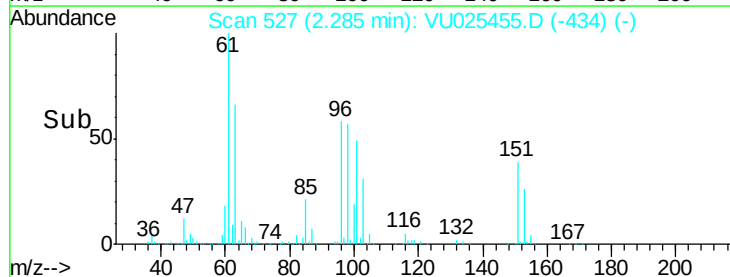
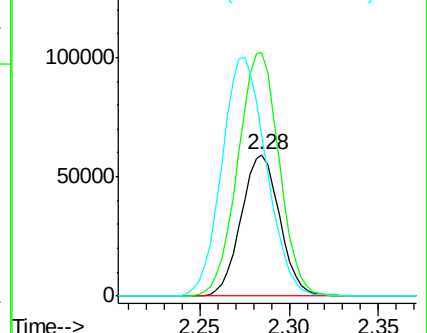
63 113.3 79.3 147.3

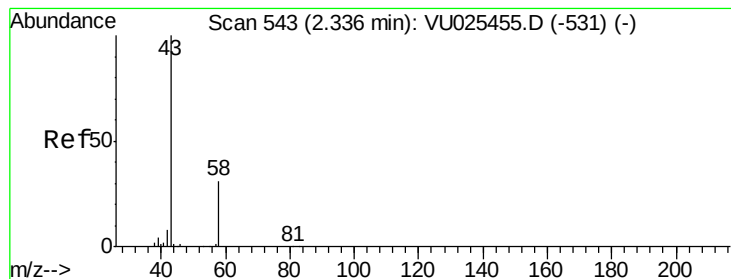


Abundance Ion 96.00 (95.70 to 96.70): VU025455.D (-515) (-)

Ion 61.00 (60.70 to 61.70): VU025455.D (-515) (-)

Ion 63.00 (62.70 to 63.70): VU025455.D (-515) (-)





#13

Acetone

Concen: 87.284 ug/L

RT: 2.34 min Scan# 543

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

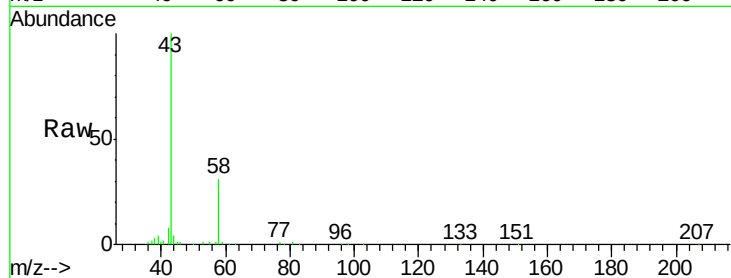
VSTD05043

Tgt Ion: 43 Resp: 132381

Ion Ratio Lower Upper

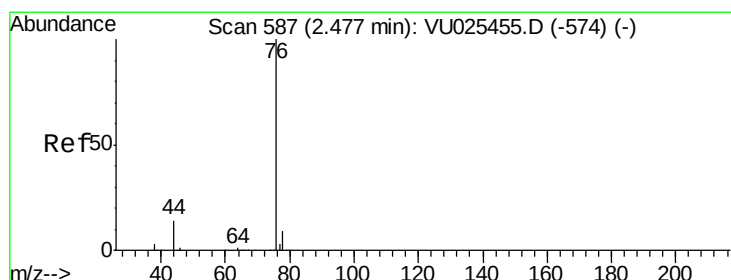
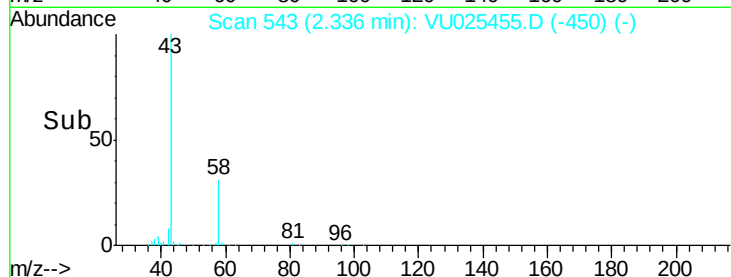
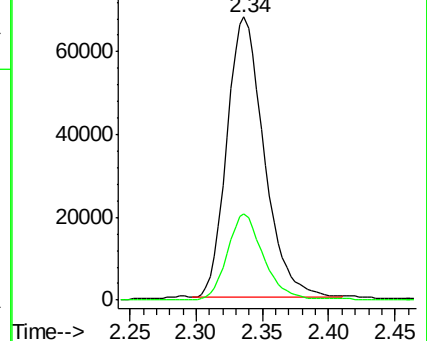
43 100

58 29.5 0.0 59.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 47.191 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025455.D

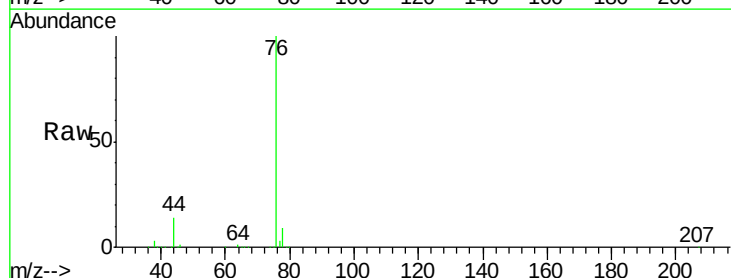
Acq: 17 Jul 2018 12:20

Tgt Ion: 76 Resp: 283711

Ion Ratio Lower Upper

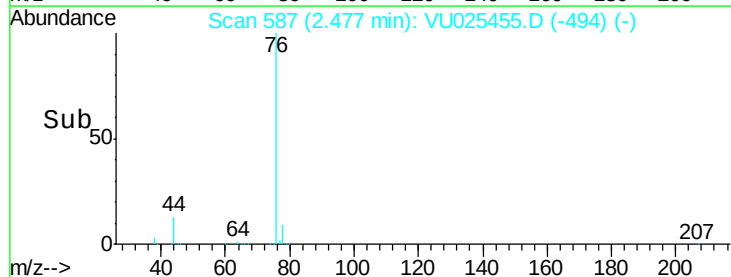
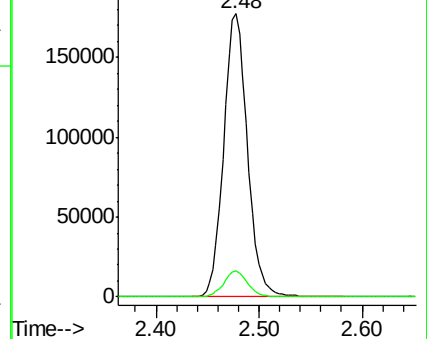
76 100

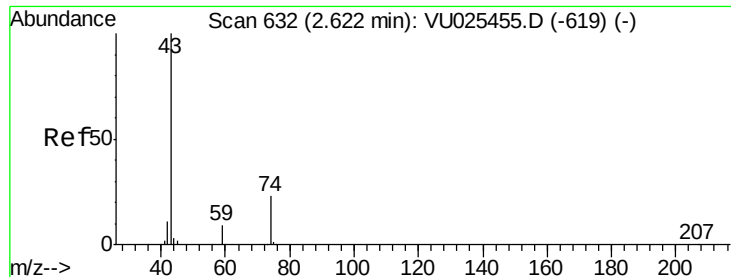
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

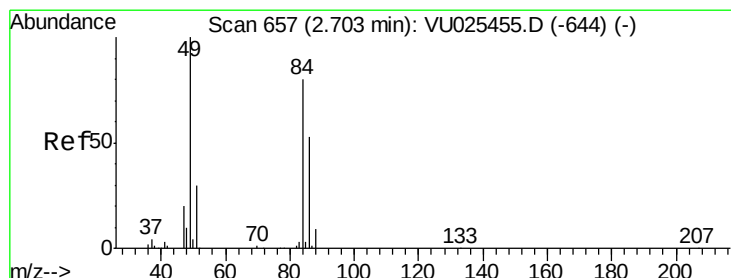
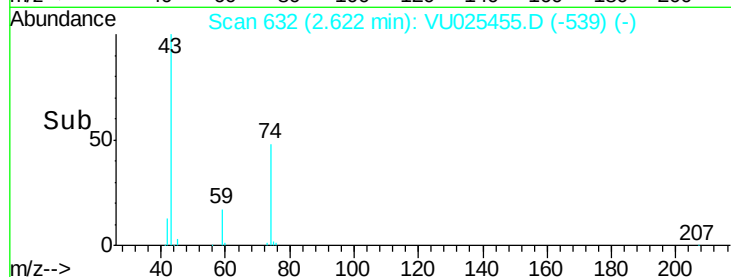
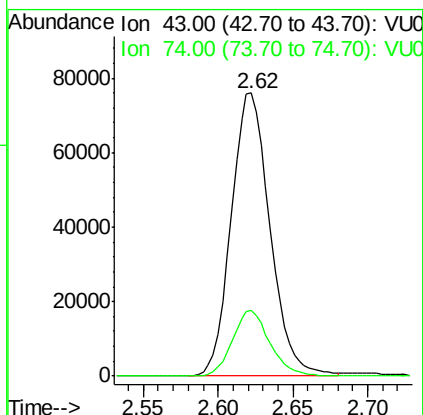
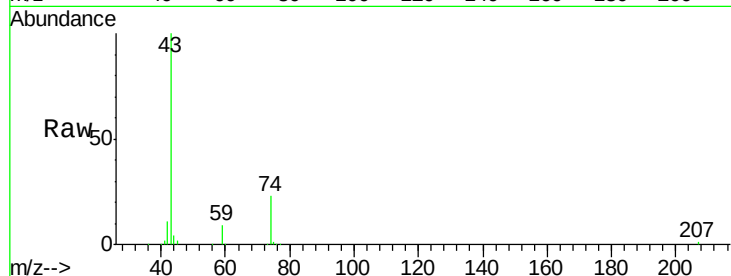




#15
Methyl Acetate
Concen: 49.377 ug/L
RT: 2.62 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

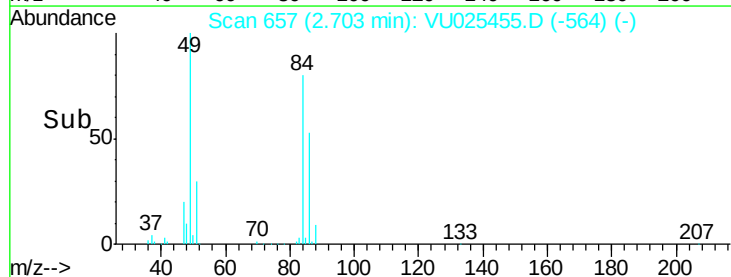
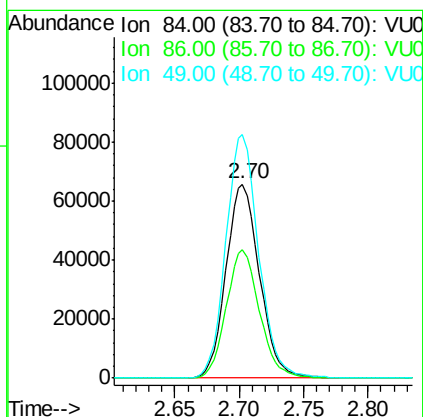
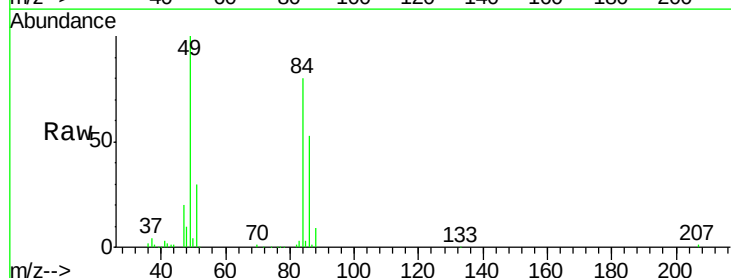
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

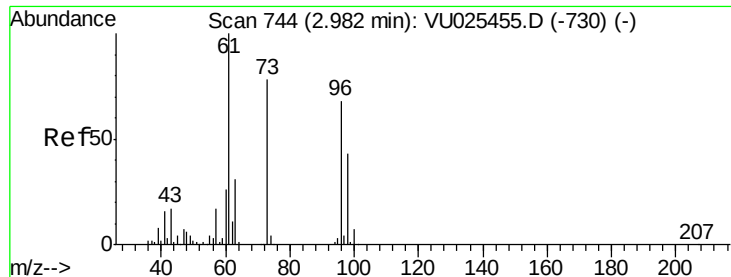
Tgt Ion: 43 Resp: 137259
Ion Ratio Lower Upper
43 100
74 22.3 17.8 26.8



#16
Methylene chloride
Concen: 48.726 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

Tgt Ion: 84 Resp: 118555
Ion Ratio Lower Upper
84 100
86 66.1 46.3 85.9
49 125.6 87.9 163.3





#17

trans-1,2-Dichloroethene

Concen: 48.529 ug/L

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

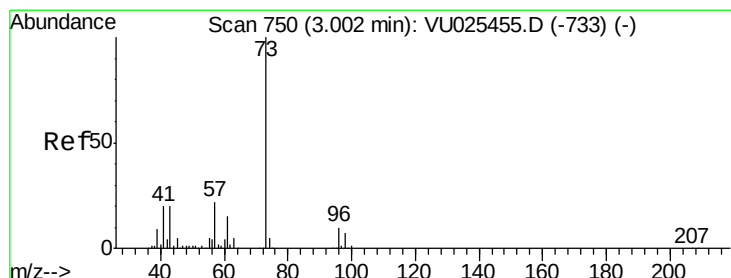
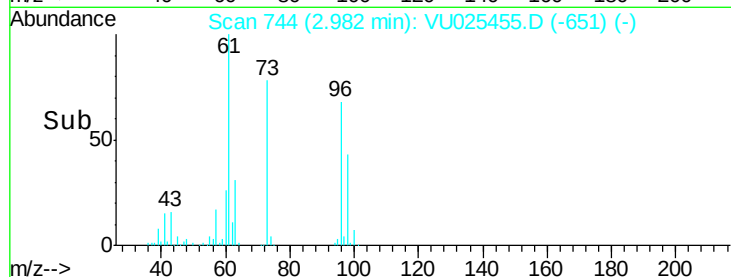
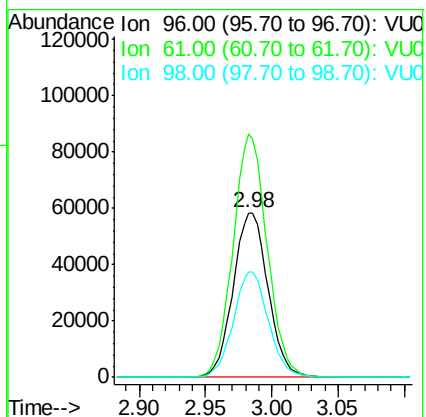
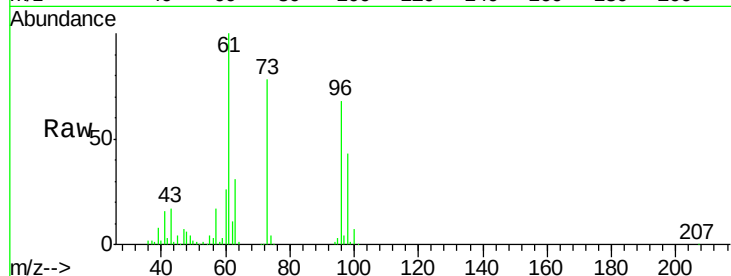
Tgt Ion: 96 Resp: 106796

Ion Ratio Lower Upper

96 100

61 148.0 103.6 192.4

98 64.0 44.8 83.2



#18

Methyl tert-butyl Ether

Concen: 50.331 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

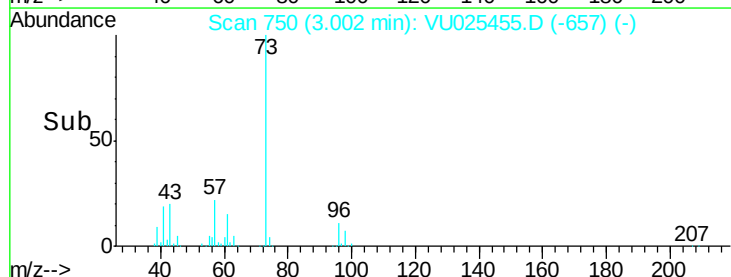
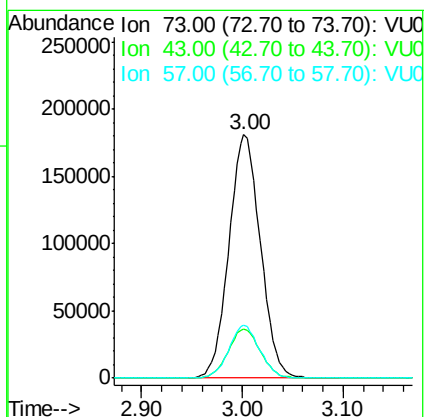
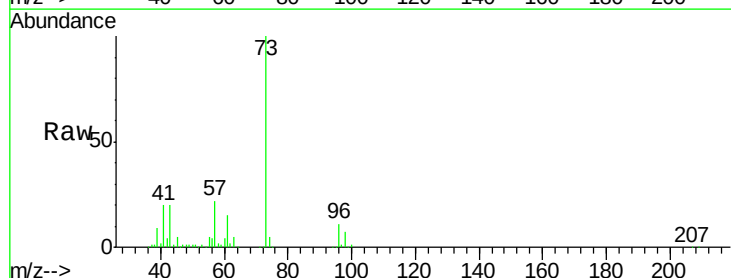
Tgt Ion: 73 Resp: 392461

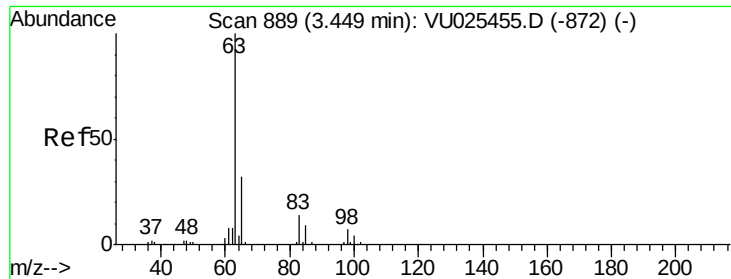
Ion Ratio Lower Upper

73 100

43 20.7 16.6 24.8

57 21.3 17.0 25.6

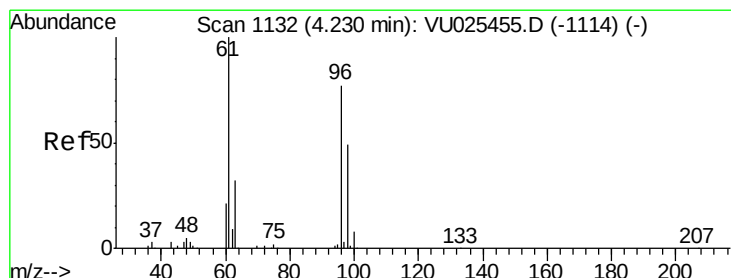
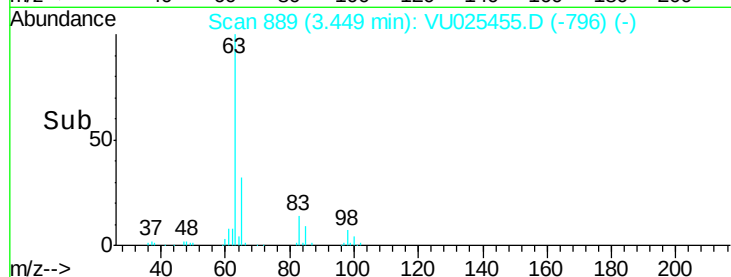
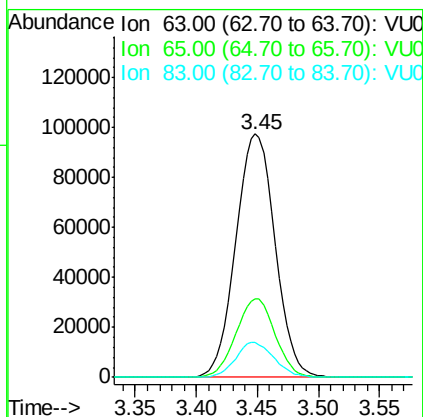
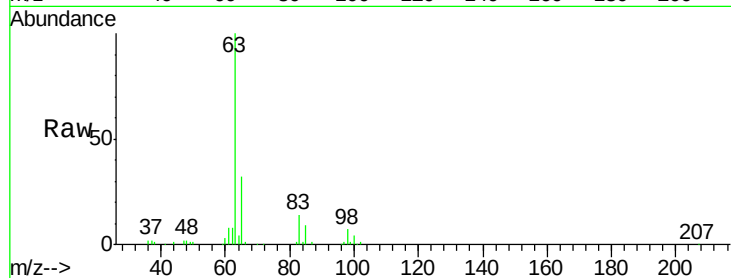




#19
 1,1-Dichloroethane
 Concen: 49.300 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

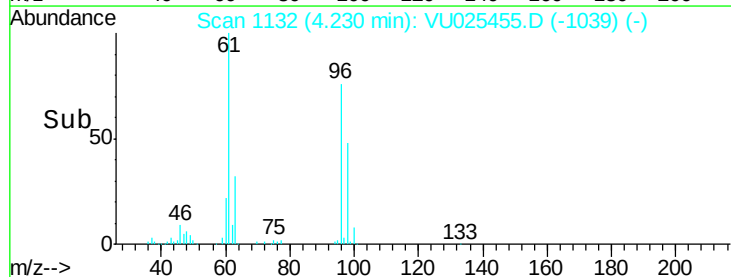
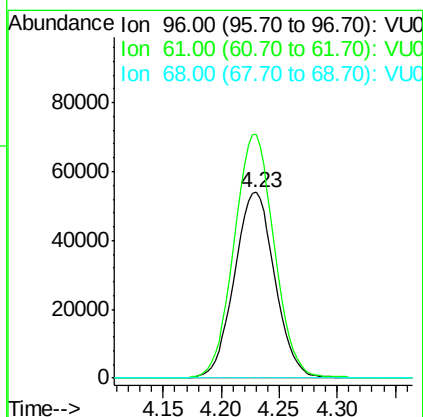
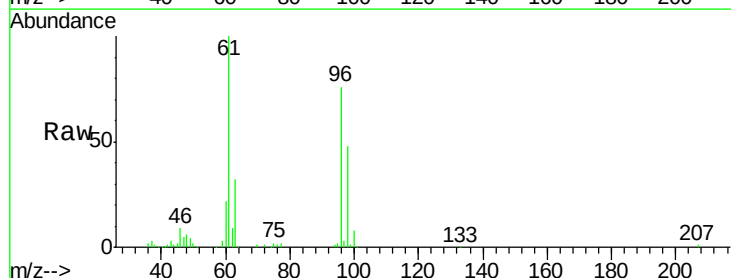
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

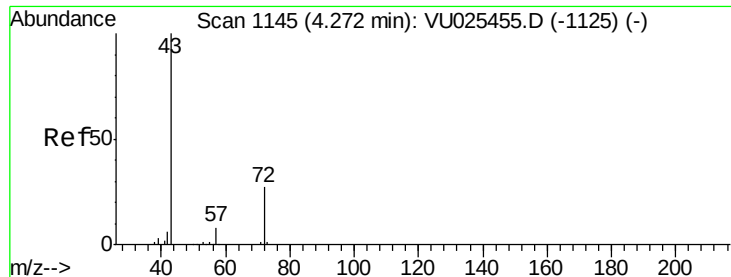
Tgt Ion: 63 Resp: 217032
 Ion Ratio Lower Upper
 63 100
 65 32.4 22.7 42.1
 83 14.1 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 48.455 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

Tgt Ion: 96 Resp: 130557
 Ion Ratio Lower Upper
 96 100
 61 131.0 91.7 170.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 98.614 ug/L

RT: 4.27 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

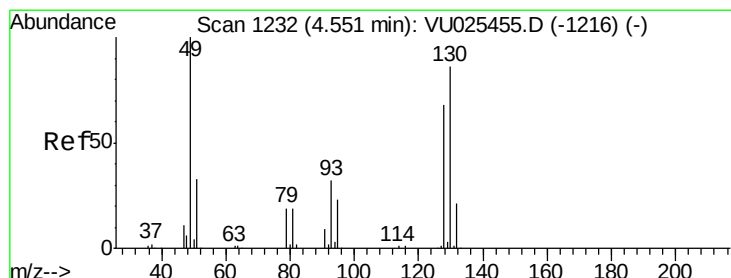
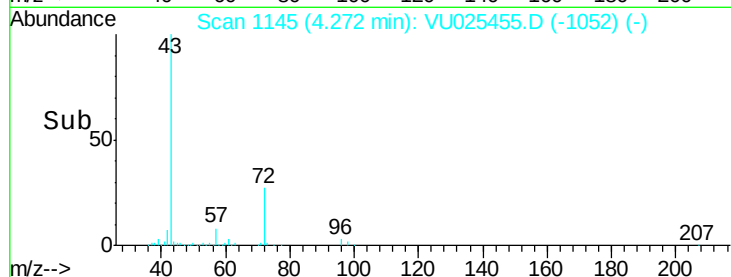
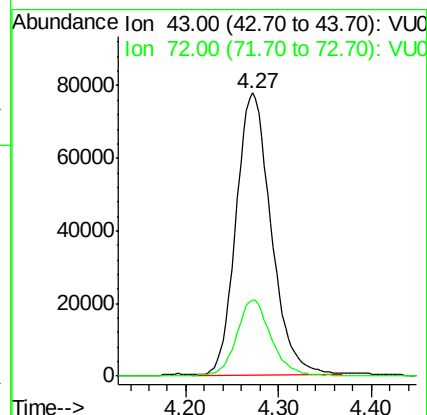
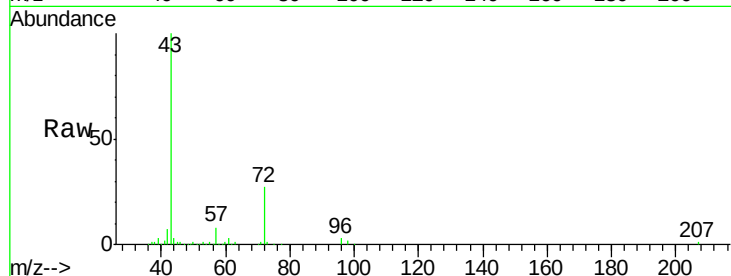
VSTD05043

Tgt Ion: 43 Resp: 204173

Ion Ratio Lower Upper

43 100

72 26.8 13.4 40.2



#23

Bromochloromethane

Concen: 50.551 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Tgt Ion: 128 Resp: 68268

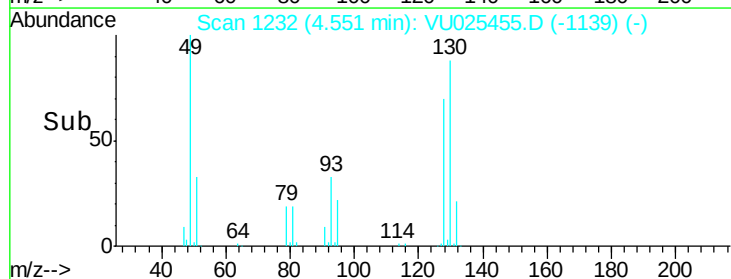
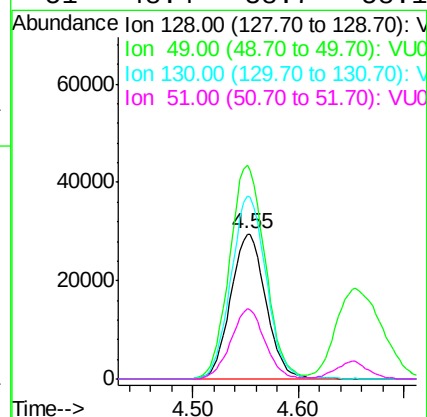
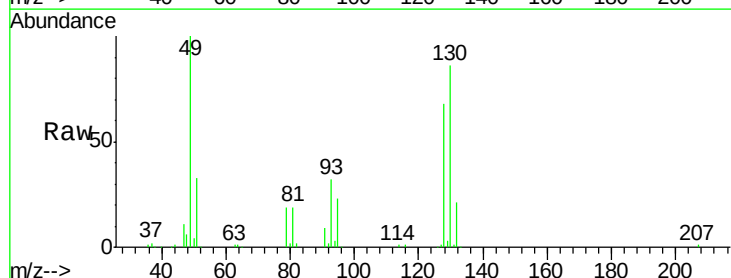
Ion Ratio Lower Upper

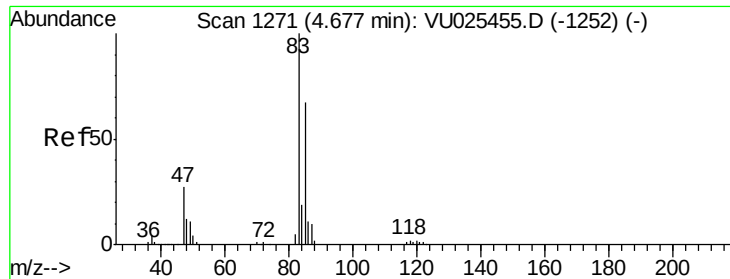
128 100

49 147.1 103.0 191.2

130 126.4 88.5 164.3

51 48.4 38.7 58.1





#25

Chloroform

Concen: 49.697 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

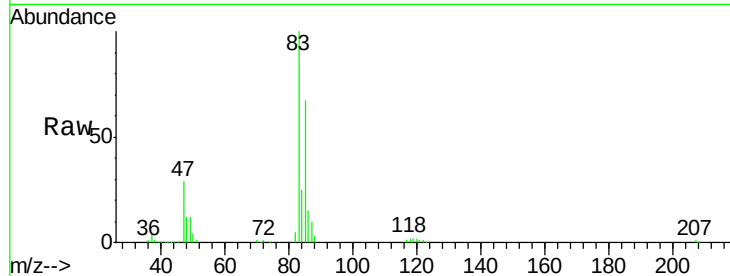
VSTD05043

Tgt Ion: 83 Resp: 229889

Ion Ratio Lower Upper

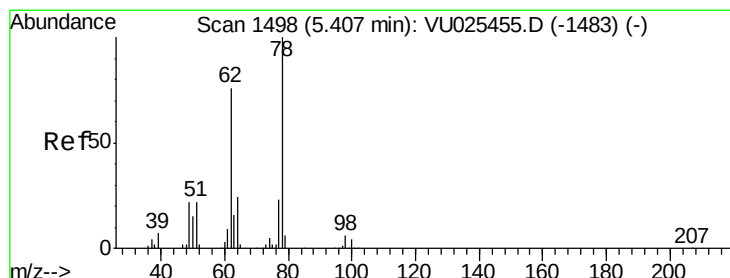
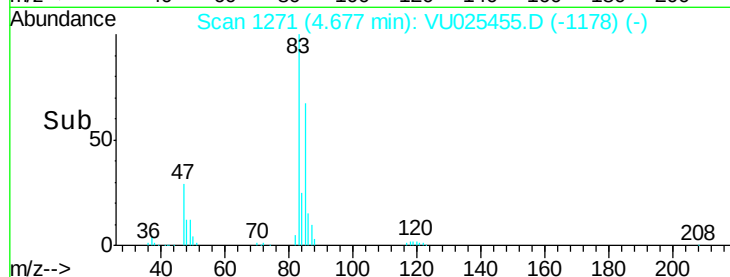
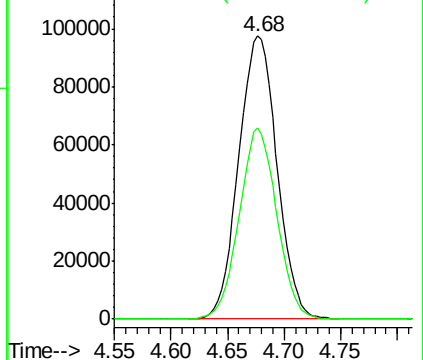
83 100

85 67.4 47.2 87.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 49.595 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VU025455.D

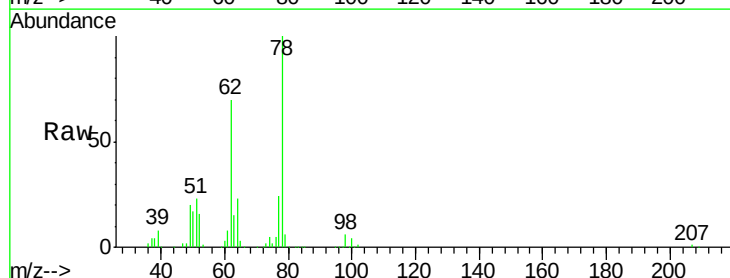
Acq: 17 Jul 2018 12:20

Tgt Ion: 62 Resp: 190520

Ion Ratio Lower Upper

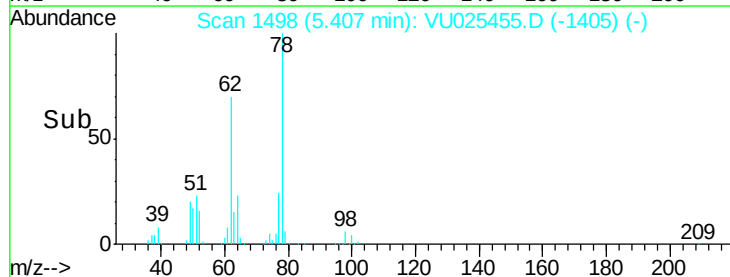
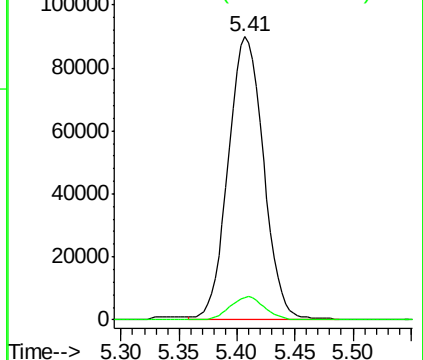
62 100

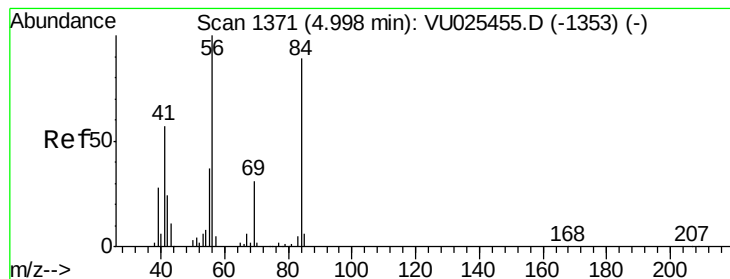
98 8.1 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#29

Cyclohexane

Concen: 47.722 ug/L

RT: 5.00 min Scan# 1371

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

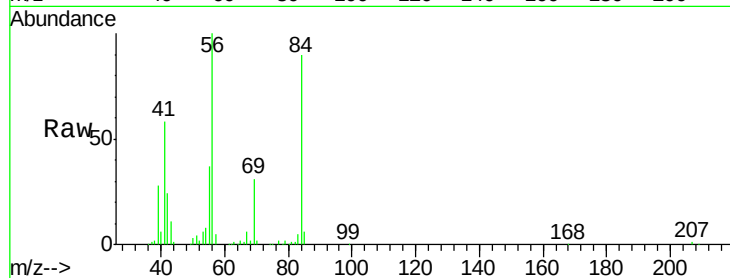
Tgt Ion: 56 Resp: 174263

Ion Ratio Lower Upper

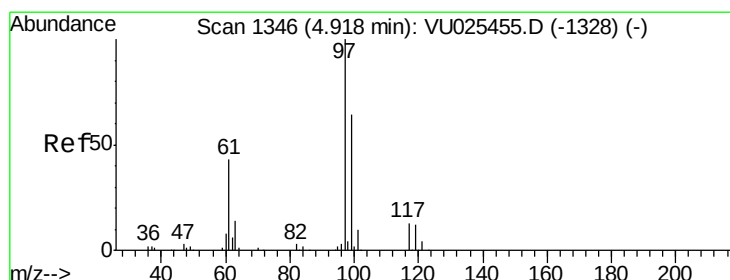
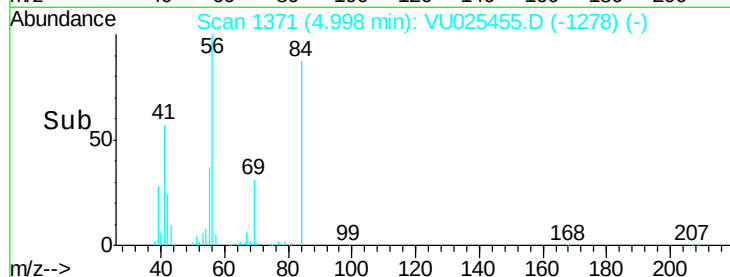
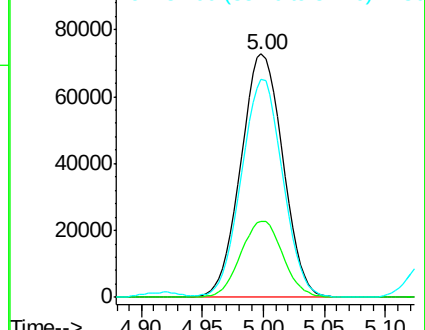
56 100

69 31.2 25.0 37.4

84 87.9 70.3 105.5



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 49.035 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

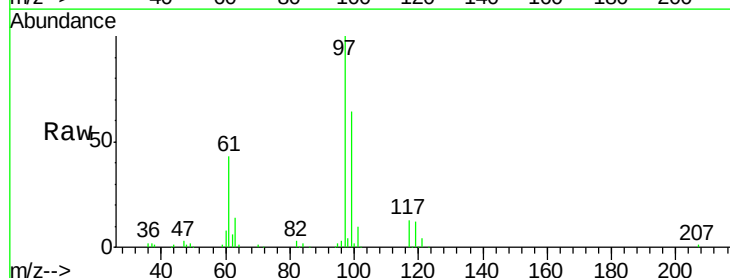
Tgt Ion: 97 Resp: 206922

Ion Ratio Lower Upper

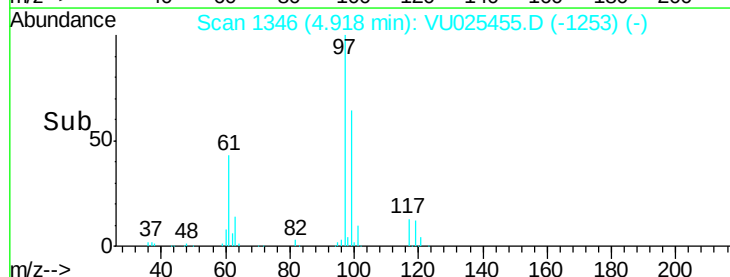
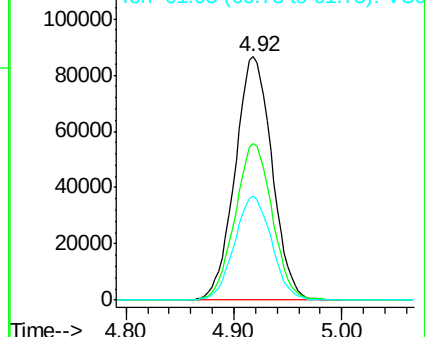
97 100

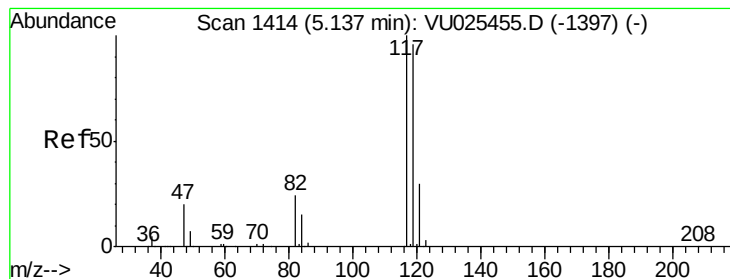
99 64.4 51.5 77.3

61 42.6 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 49.739 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

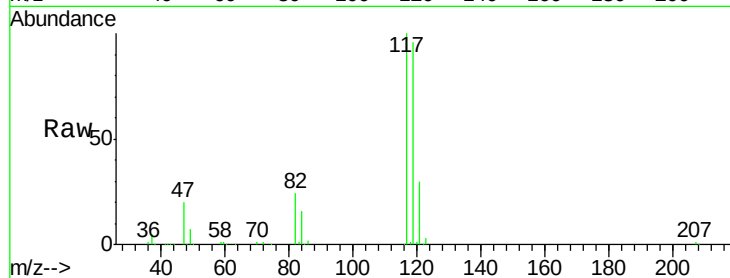
VSTD05043

Tgt Ion:117 Resp: 184392

Ion Ratio Lower Upper

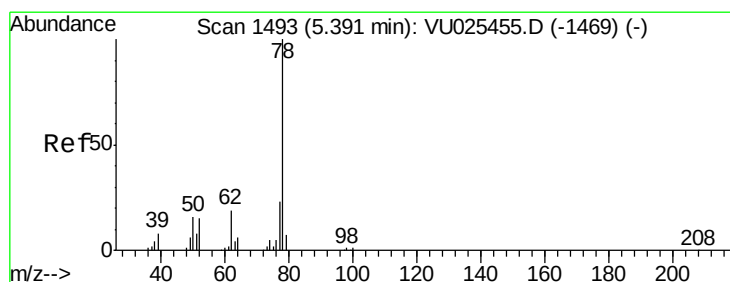
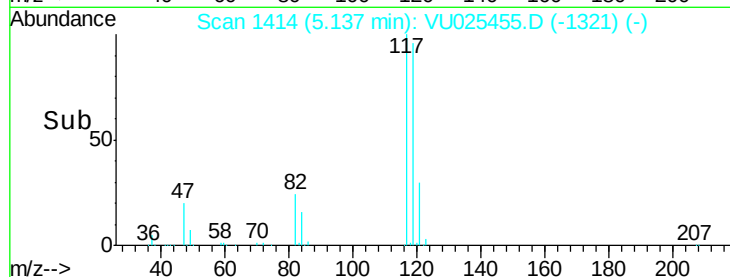
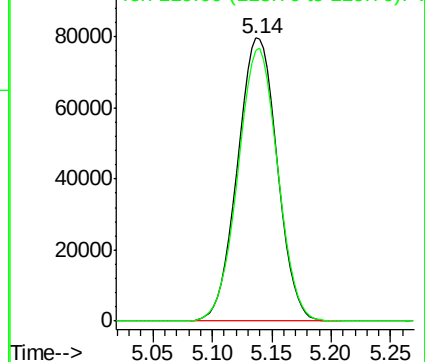
117 100

119 96.4 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.180 ug/L

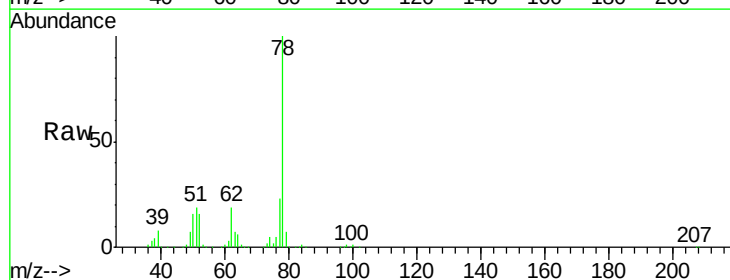
RT: 5.39 min Scan# 1493

Delta R.T. 0.00 min

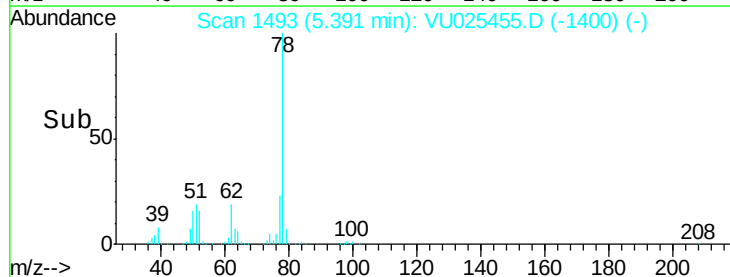
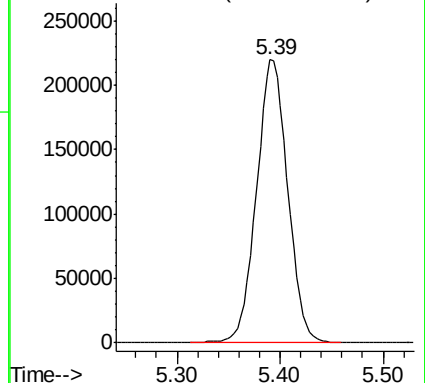
Lab File: VU025455.D

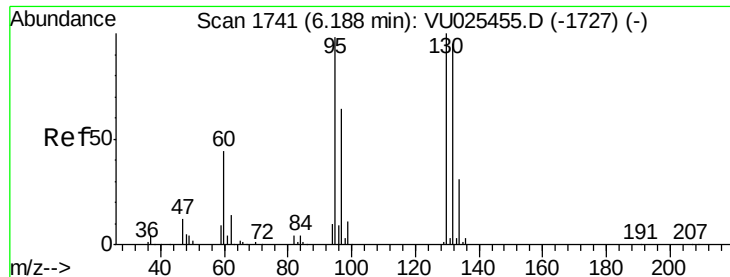
Acq: 17 Jul 2018 12:20

Tgt Ion: 78 Resp: 461371



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.272 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

Tgt Ion: 95 Resp: 119879

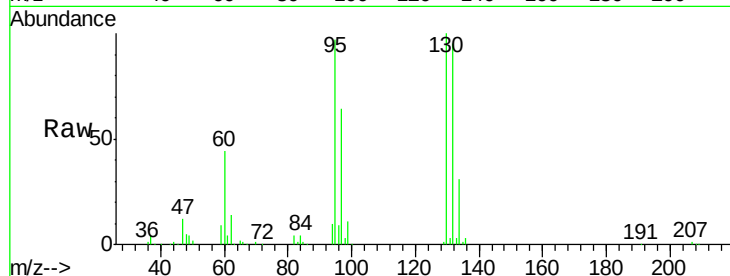
Ion Ratio Lower Upper

95 100

97 65.6 45.9 85.3

132 97.4 68.2 126.6

130 102.6 71.8 133.4

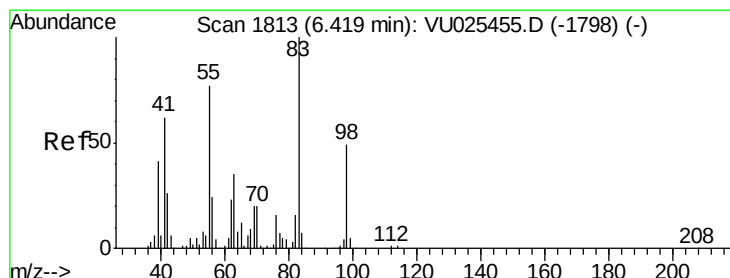
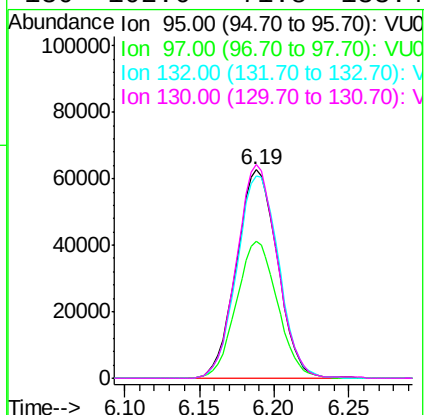
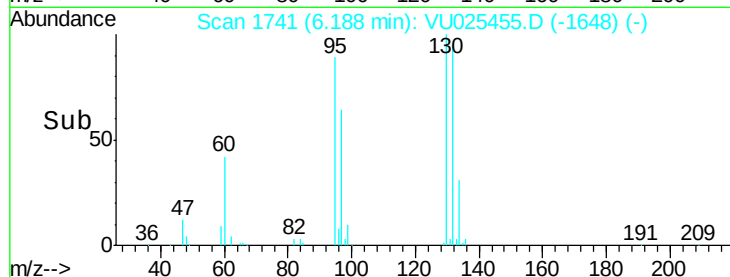


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 44.079 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

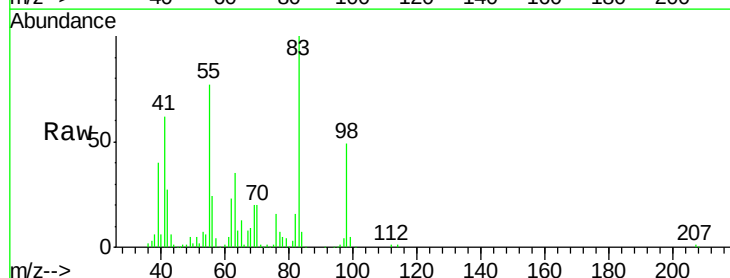
Tgt Ion: 83 Resp: 166196

Ion Ratio Lower Upper

83 100

55 77.3 61.8 92.8

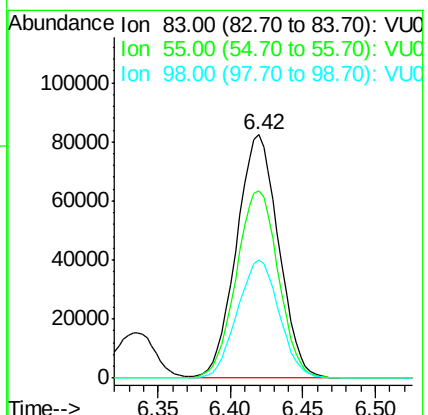
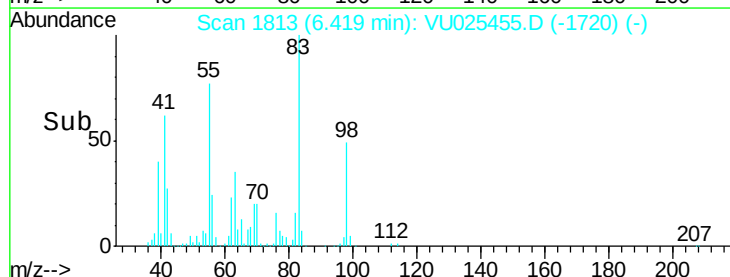
98 48.4 38.7 58.1

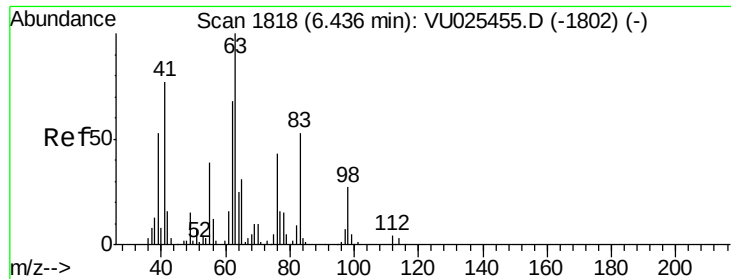


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

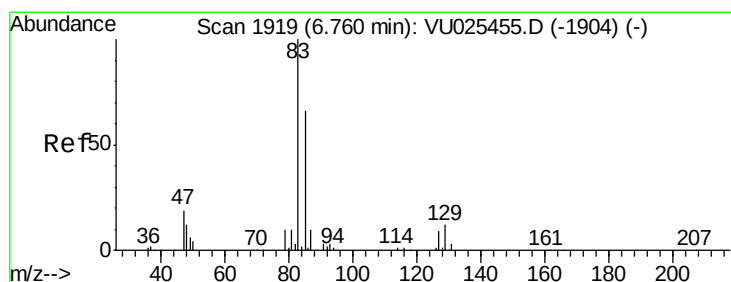
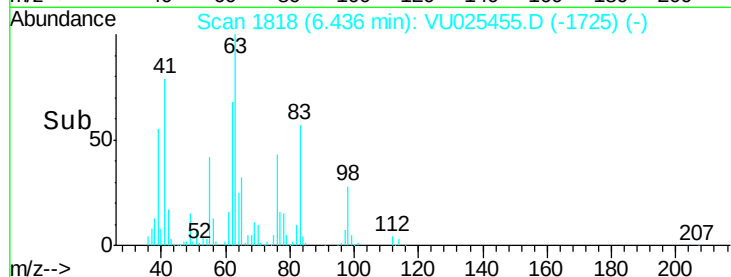
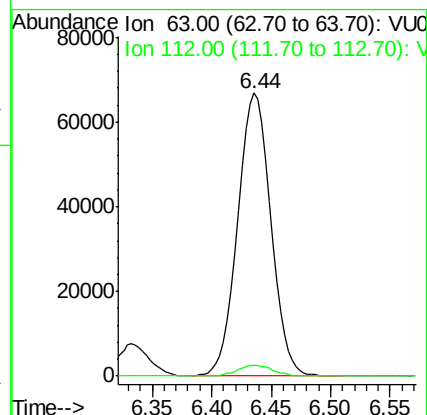
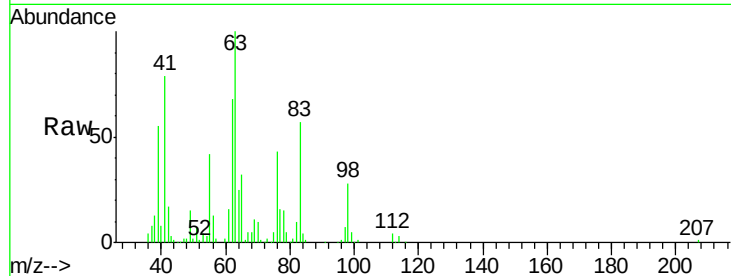




#37
 1,2-Dichloropropane
 Concen: 50.066 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

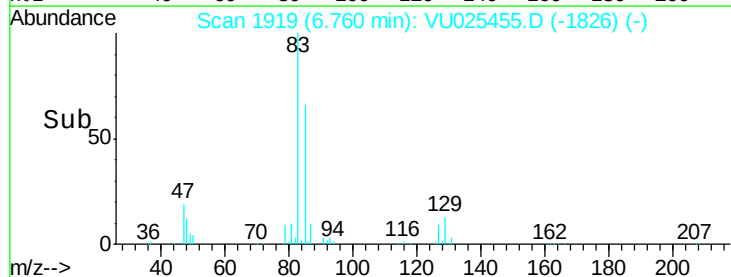
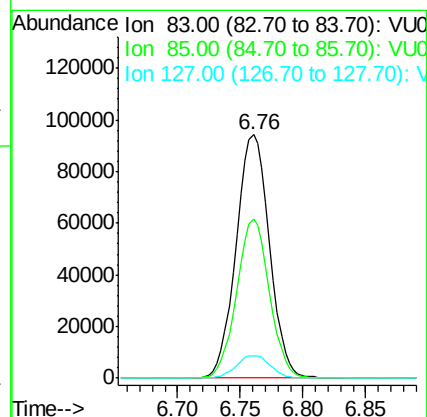
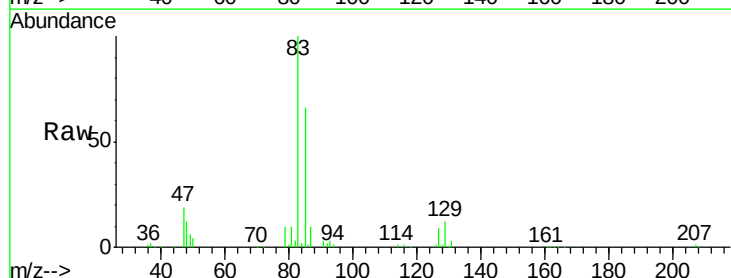
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

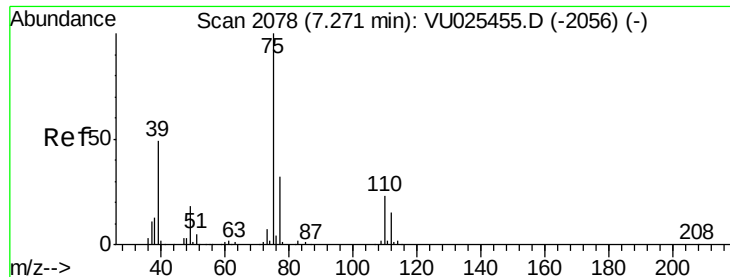
Tgt Ion: 63 Resp: 129565
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 49.874 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

Tgt Ion: 83 Resp: 174271
 Ion Ratio Lower Upper
 83 100
 85 65.5 45.8 85.2
 127 9.1 7.3 10.9

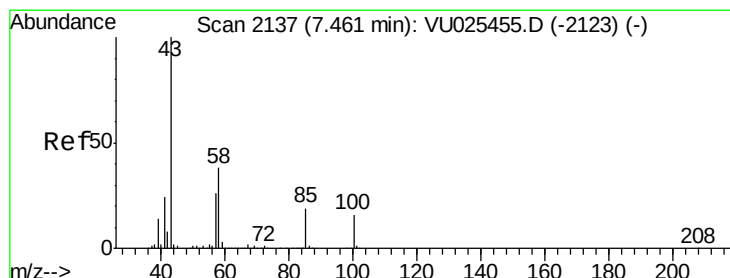
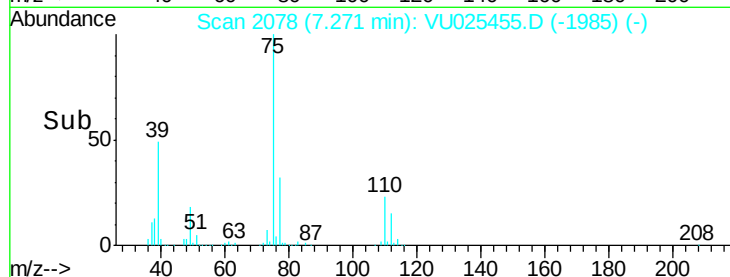
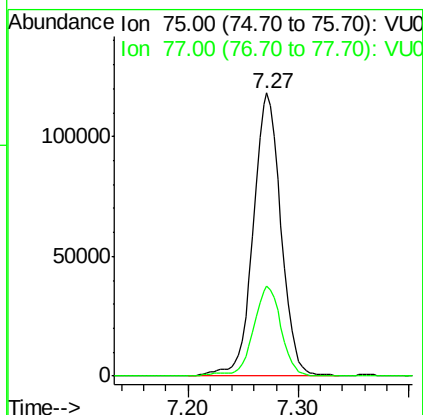
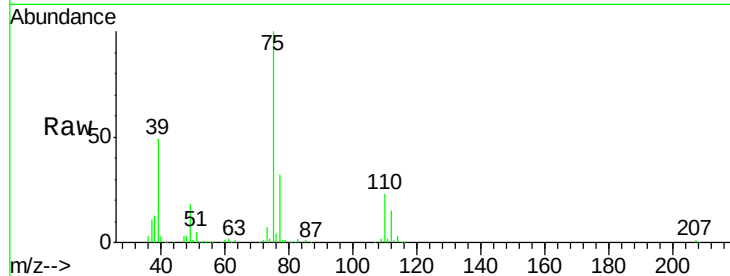




#39
 cis-1,3-Dichloropropene
 Concen: 51.303 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

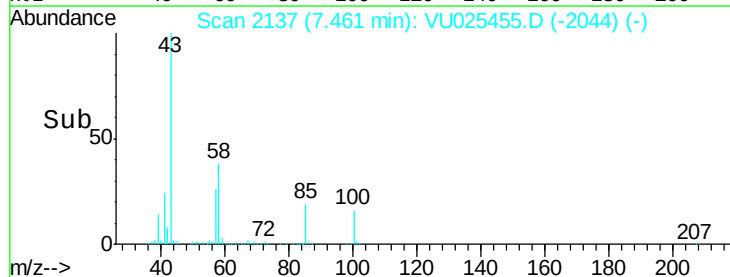
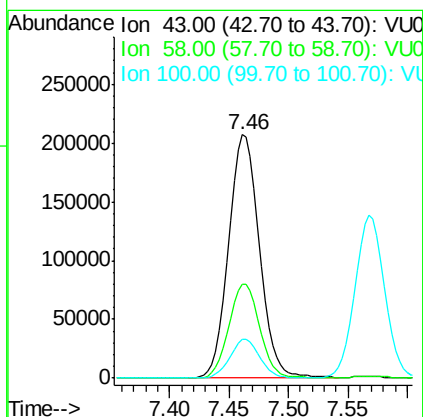
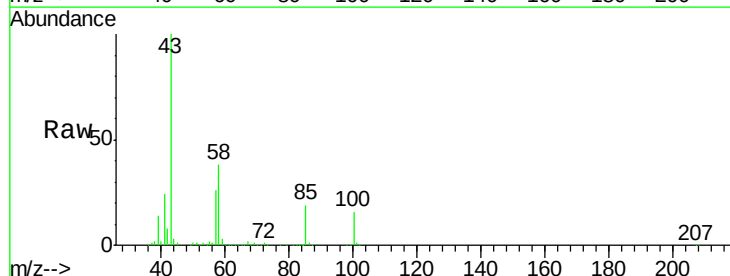
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

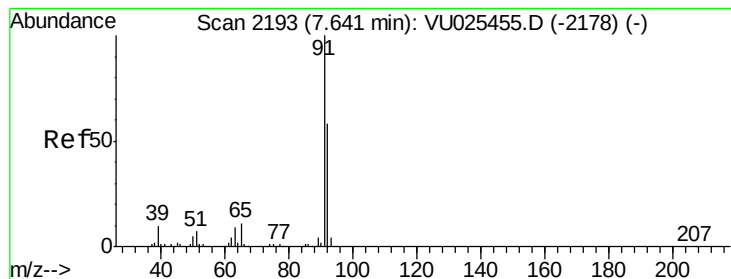
Tgt Ion: 75 Resp: 205710
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 99.351 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

Tgt Ion: 43 Resp: 372893
 Ion Ratio Lower Upper
 43 100
 58 38.6 30.9 46.3
 100 15.5 12.4 18.6





#42

Toluene

Concen: 48.923 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

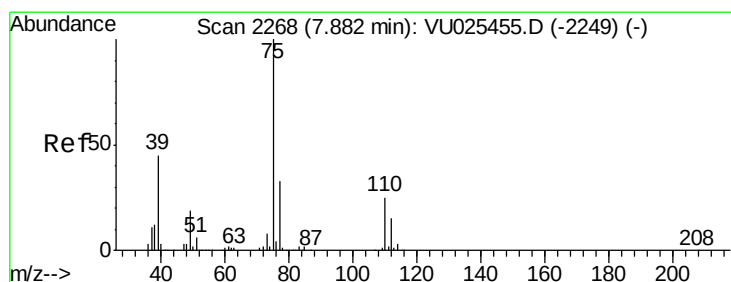
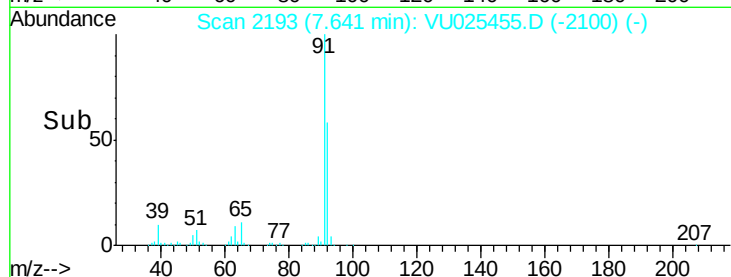
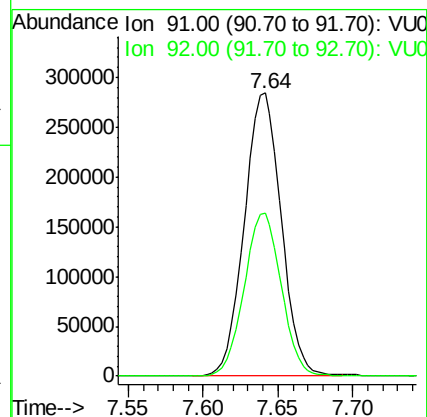
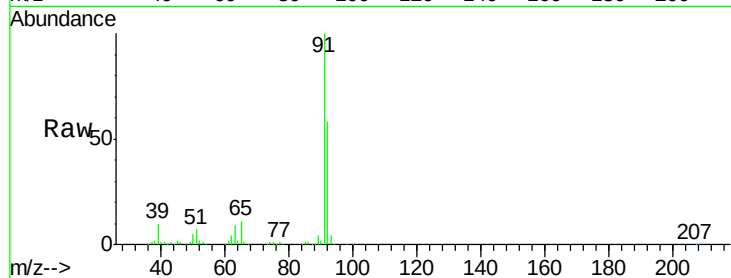
VSTD05043

Tgt Ion: 91 Resp: 489367

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 49.850 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025455.D

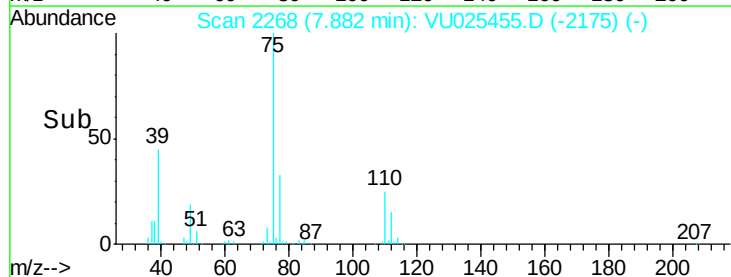
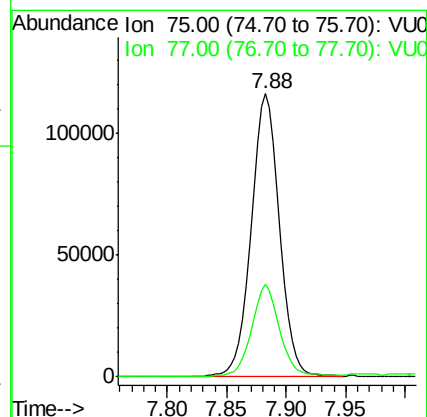
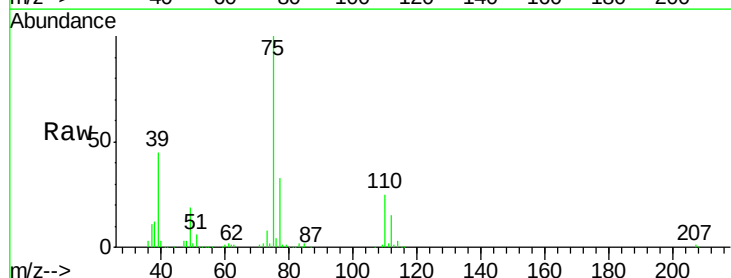
Acq: 17 Jul 2018 12:20

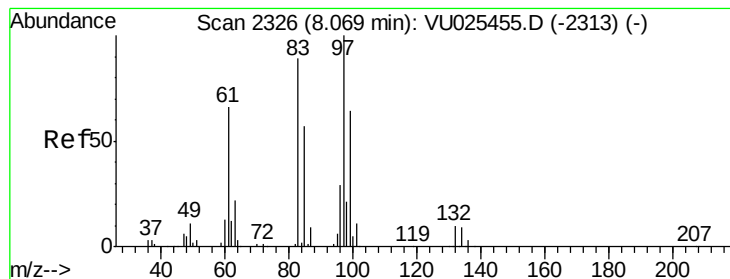
Tgt Ion: 75 Resp: 191887

Ion Ratio Lower Upper

75 100

77 32.5 22.7 42.3





#45

1,1,2-Trichloroethane

Concen: 49.513 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

Tgt Ion: 97 Resp: 121488

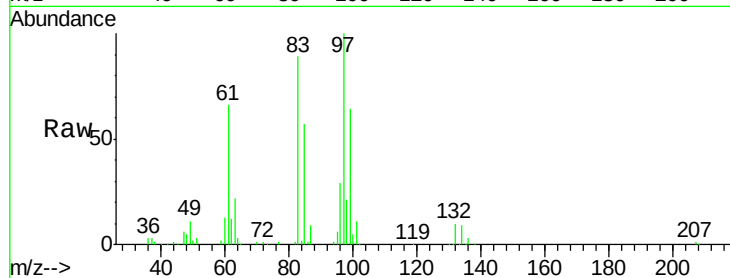
Ion Ratio Lower Upper

97 100

99 63.9 44.7 83.1

83 88.6 62.0 115.2

85 56.6 39.6 73.6

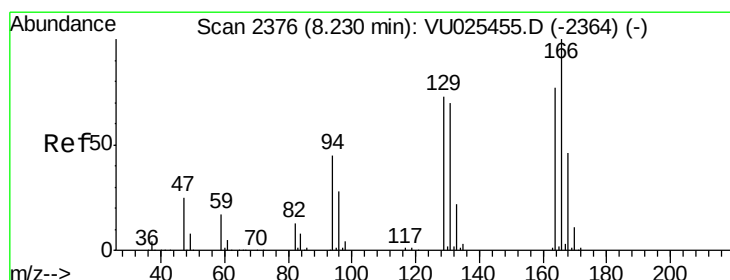
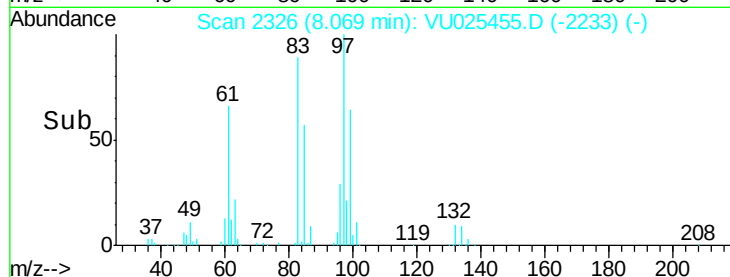
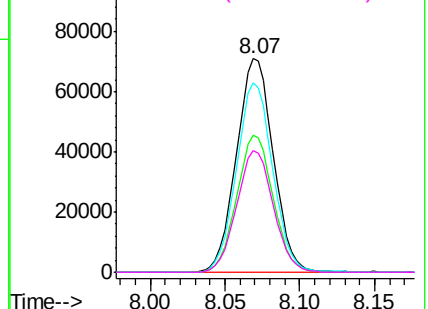


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 45.518 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Tgt Ion:164 Resp: 94298

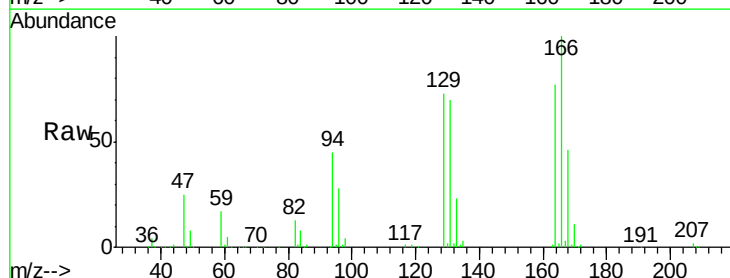
Ion Ratio Lower Upper

164 100

129 95.0 66.5 123.5

131 91.0 63.7 118.3

166 129.7 90.8 168.6

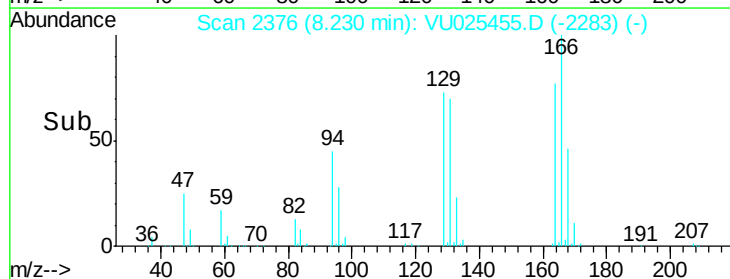
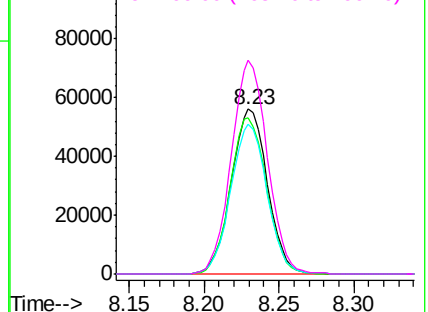


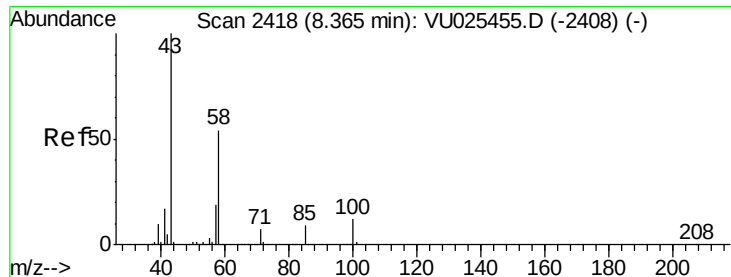
Abundance Ion 164.00 (163.70 to 164.70): V

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

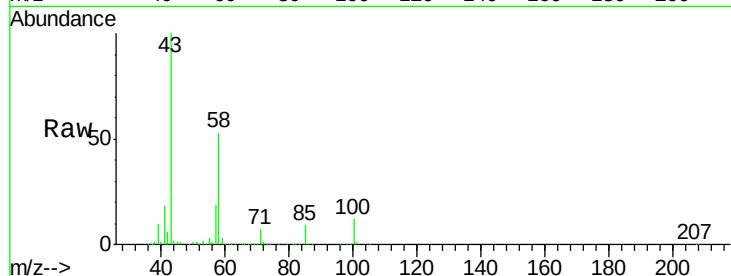




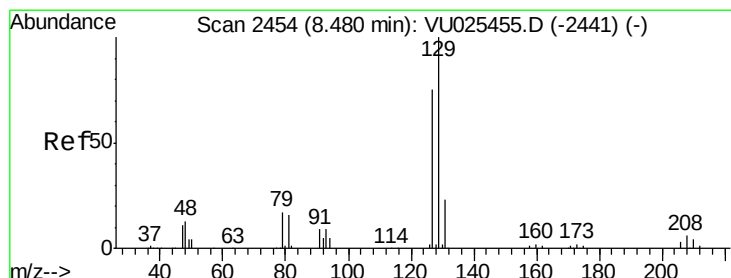
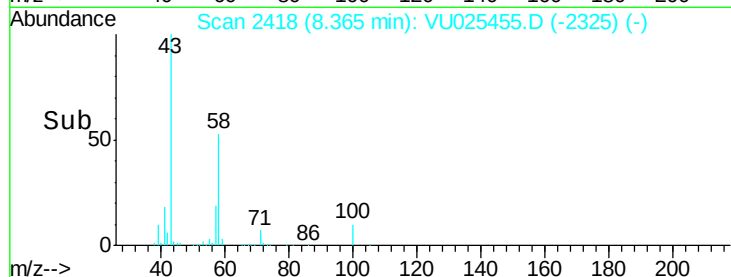
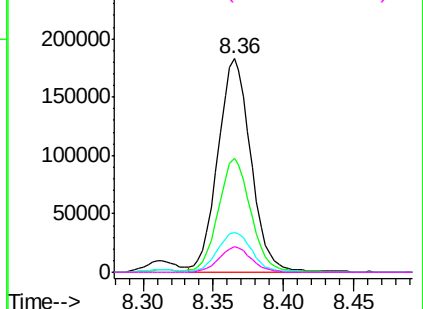
#48
2-Hexanone
Concen: 99.155 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Tgt Ion: 43 Resp: 297336
Ion Ratio Lower Upper
43 100
58 52.9 42.3 63.5
57 19.5 15.6 23.4
100 11.6 9.3 13.9

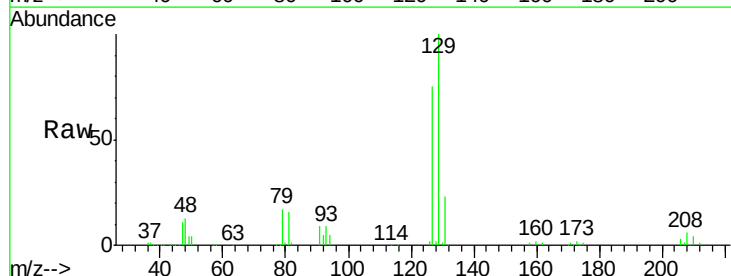


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

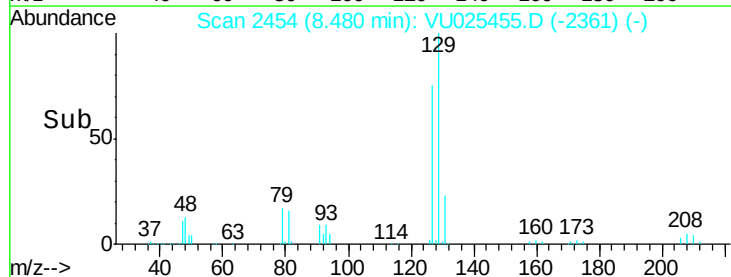
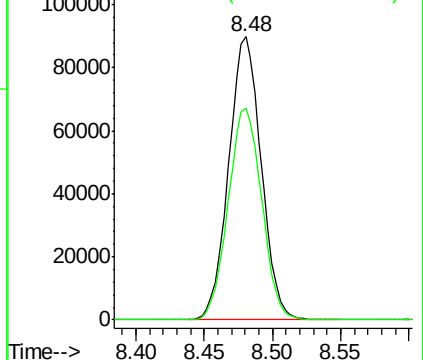


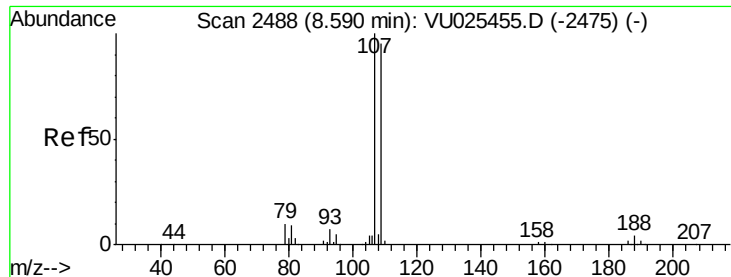
#49
Dibromochloromethane
Concen: 50.084 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

Tgt Ion: 129 Resp: 148762
Ion Ratio Lower Upper
129 100
127 74.8 52.4 97.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

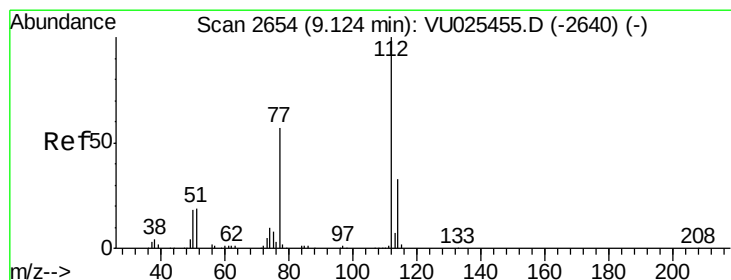
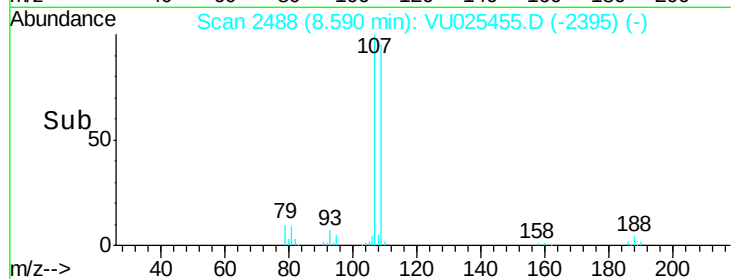
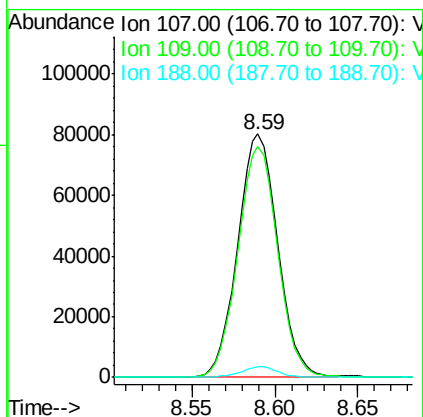
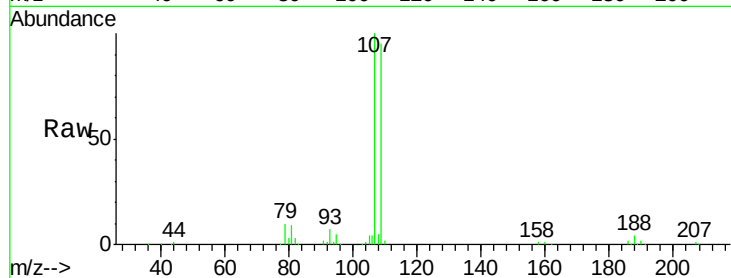




#50
1,2-Dibromoethane
Concen: 49.766 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

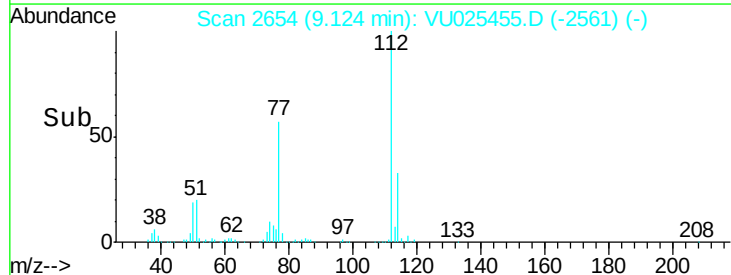
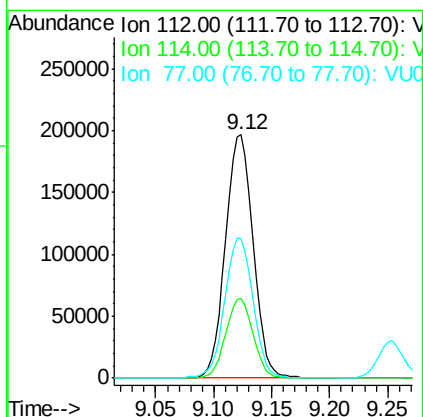
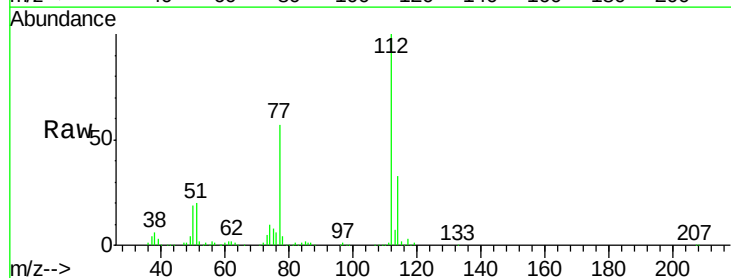
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

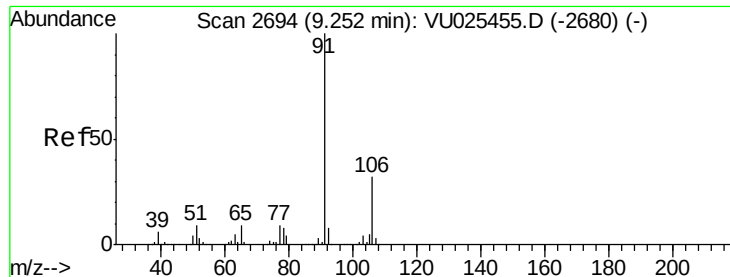
Tgt Ion:107 Resp: 134778
Ion Ratio Lower Upper
107 100
109 95.0 66.5 123.5
188 4.2 3.4 5.0



#51
Chlorobenzene
Concen: 48.376 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

Tgt Ion:112 Resp: 324691
Ion Ratio Lower Upper
112 100
114 32.6 22.8 42.4
77 57.3 45.8 68.8





#52

Ethylbenzene

Concen: 48.258 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

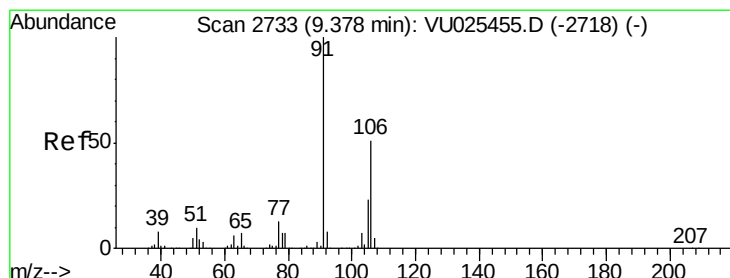
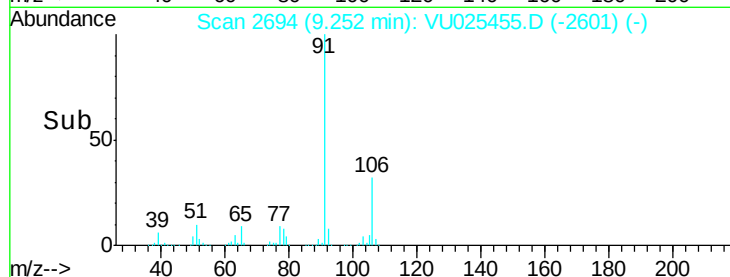
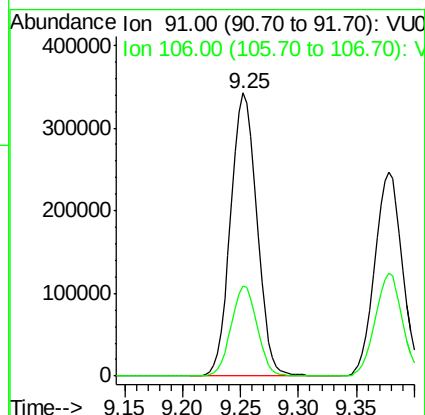
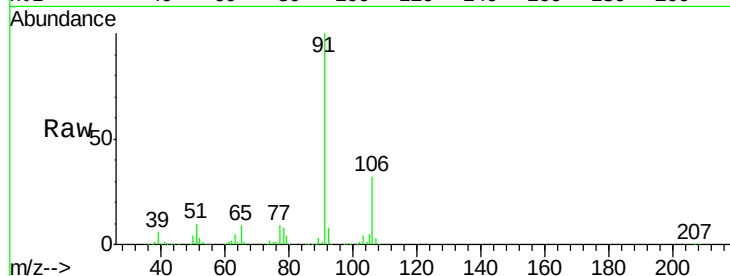
VSTD05043

Tgt Ion: 91 Resp: 538851

Ion Ratio Lower Upper

91 100

106 32.0 22.4 41.6



#53

m,p-Xylene

Concen: 47.919 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025455.D

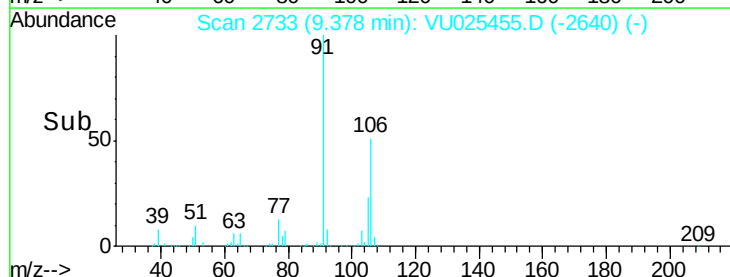
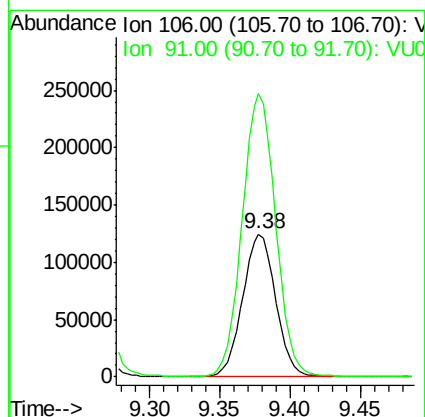
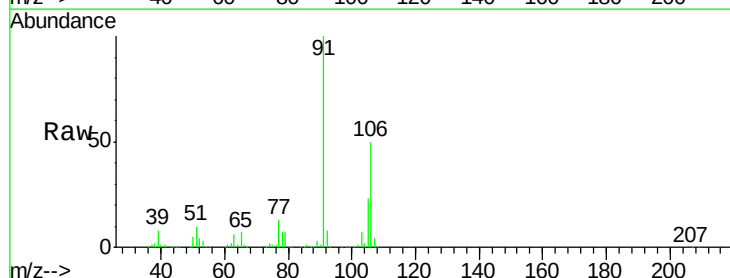
Acq: 17 Jul 2018 12:20

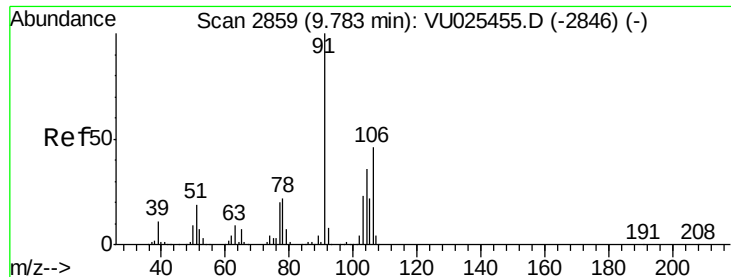
Tgt Ion: 106 Resp: 205083

Ion Ratio Lower Upper

106 100

91 198.0 138.6 257.4

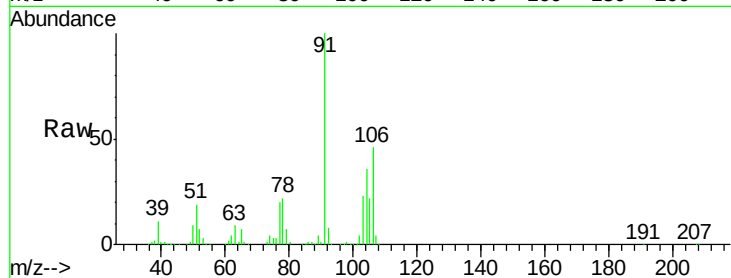




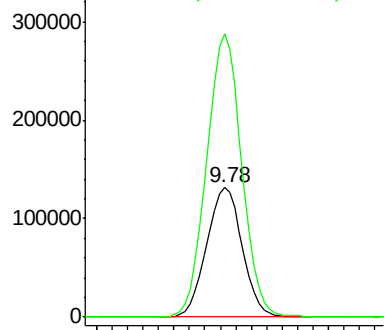
#54
o-xylene
Concen: 48.624 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

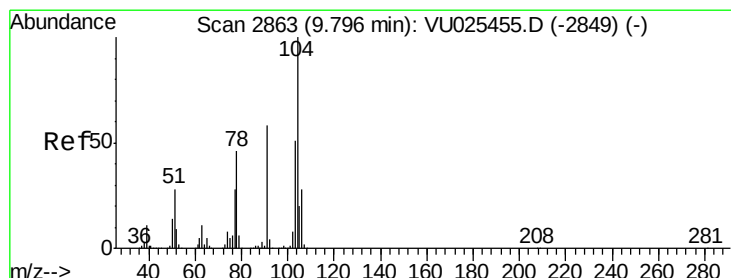
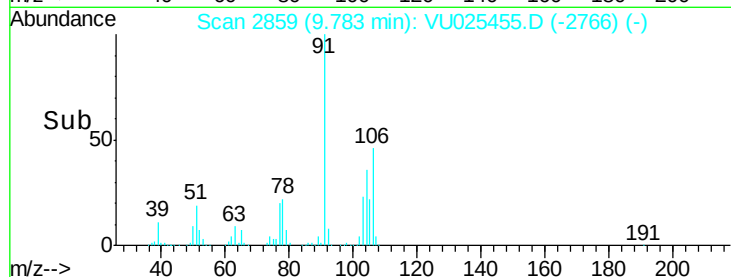
Tgt Ion:106 Resp: 209939
Ion Ratio Lower Upper
106 100
91 218.3 152.8 283.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

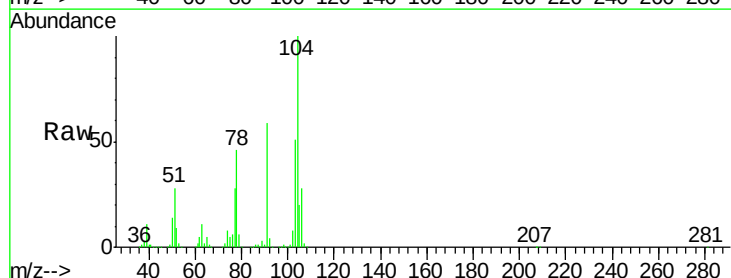


Time-->

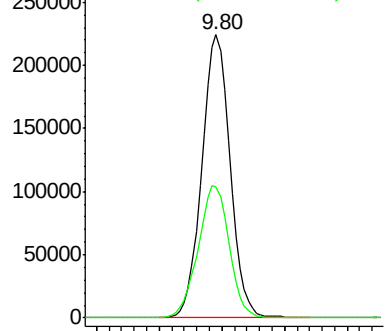


#55
Styrene
Concen: 49.223 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025455.D
Acq: 17 Jul 2018 12:20

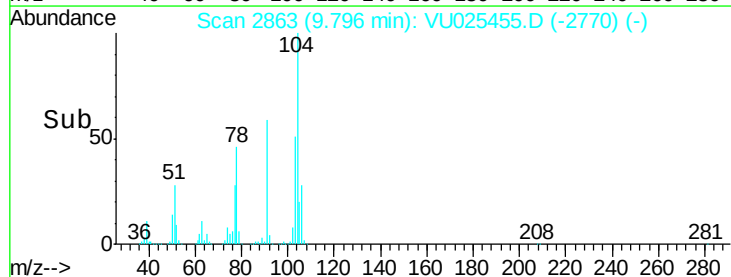
Tgt Ion:104 Resp: 351008
Ion Ratio Lower Upper
104 100
78 46.5 32.6 60.5

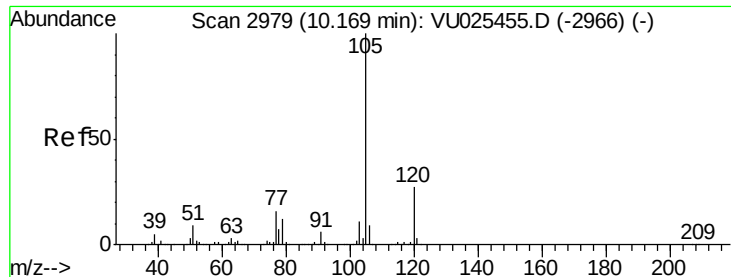


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0



Time-->





#56

Isopropylbenzene

Concen: 48.017 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

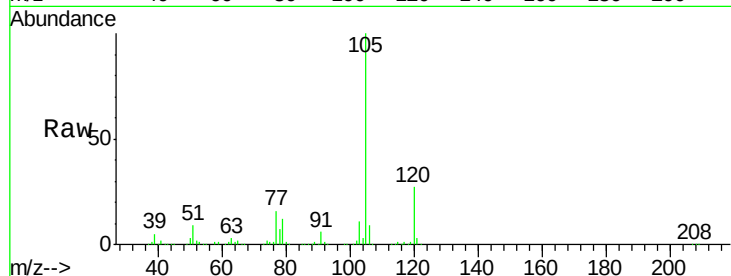
Tgt Ion: 105 Resp: 536882

Ion Ratio Lower Upper

105 100

120 27.0 21.6 32.4

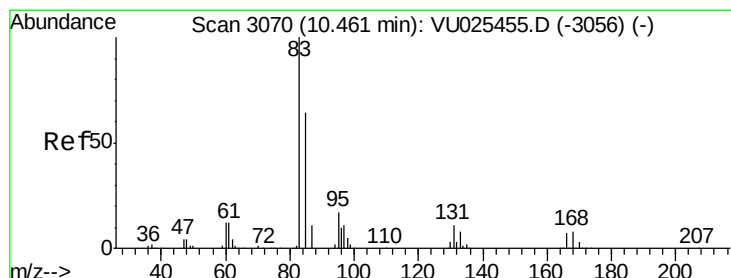
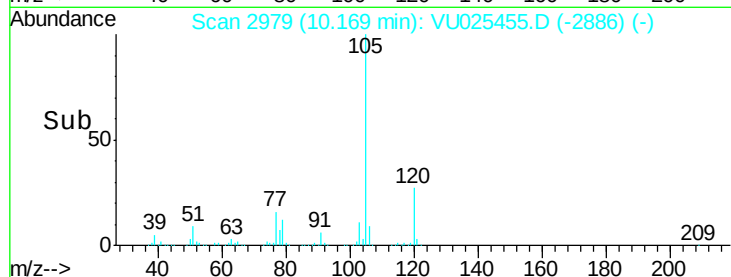
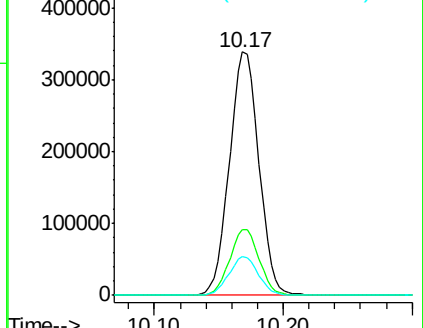
77 15.8 12.6 19.0



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: 48.591 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

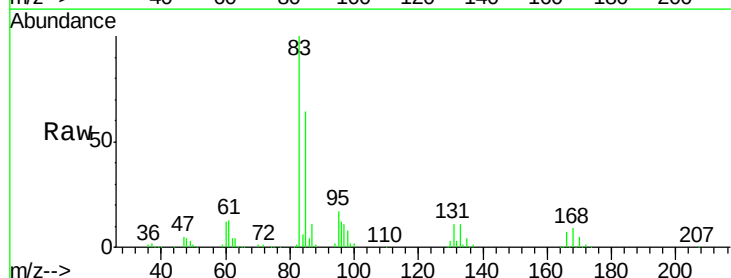
Tgt Ion: 83 Resp: 205265

Ion Ratio Lower Upper

83 100

85 64.2 44.9 83.5

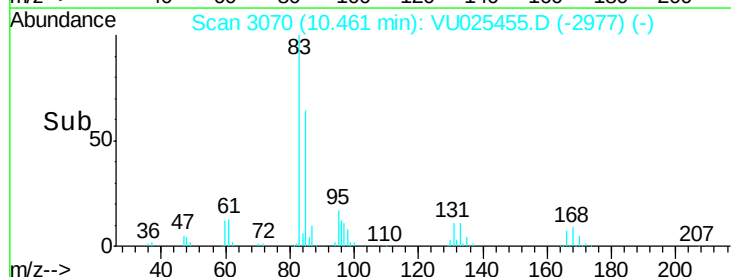
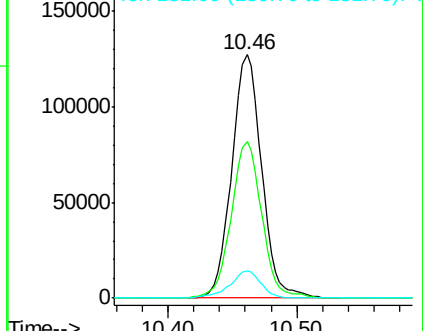
131 11.1 8.9 13.3

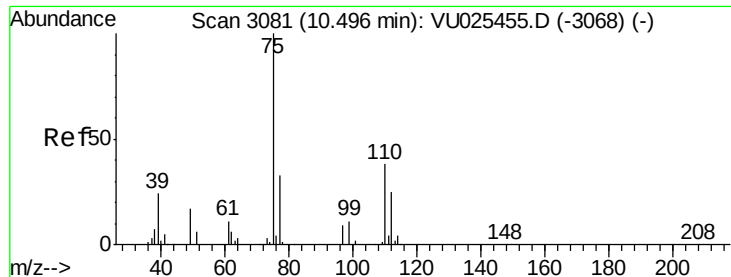


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

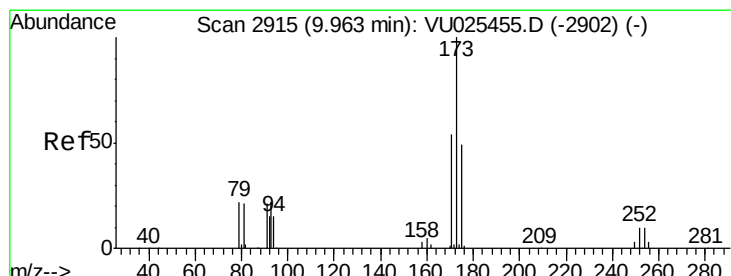
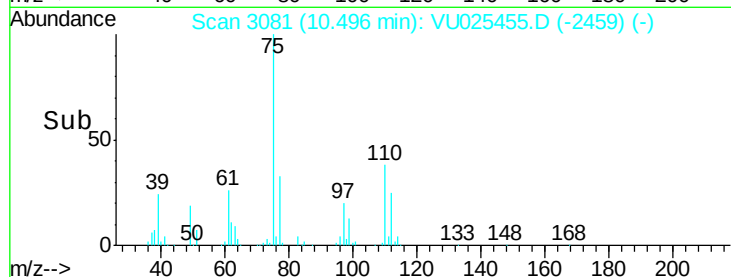
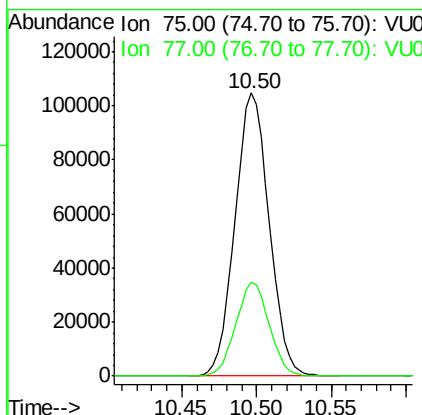
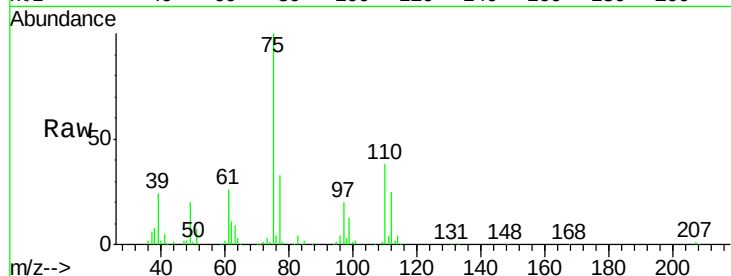




#59
 1,2,3-Trichloropropane
 Concen: 48.389 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

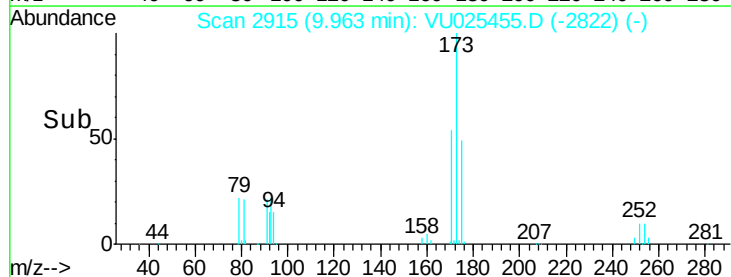
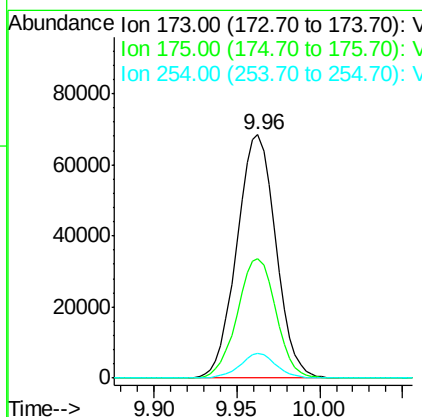
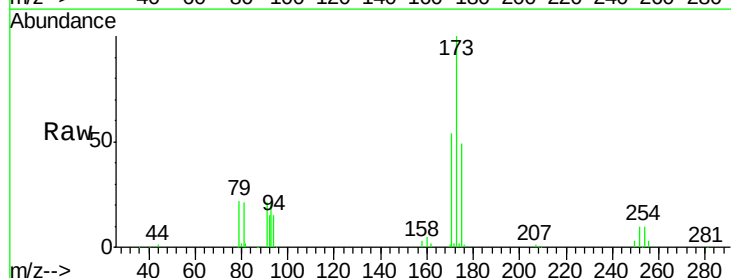
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

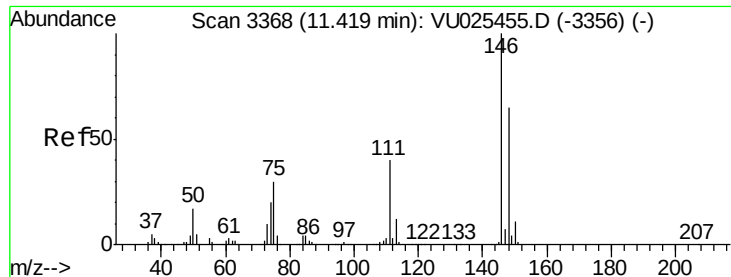
Tgt Ion: 75 Resp: 166528
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.2 39.2



#61
 Bromoform
 Concen: 51.787 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

Tgt Ion: 173 Resp: 112064
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.1 58.7
 254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 47.821 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

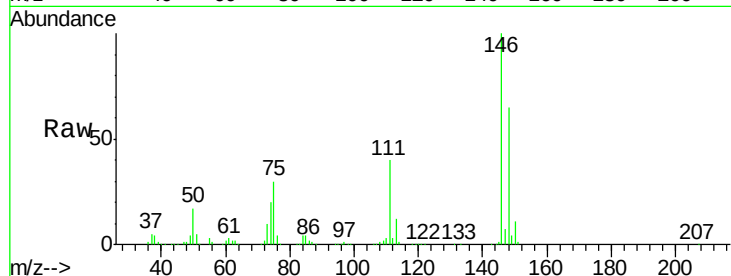
Tgt Ion:146 Resp: 243138

Ion Ratio Lower Upper

146 100

111 40.2 28.1 52.3

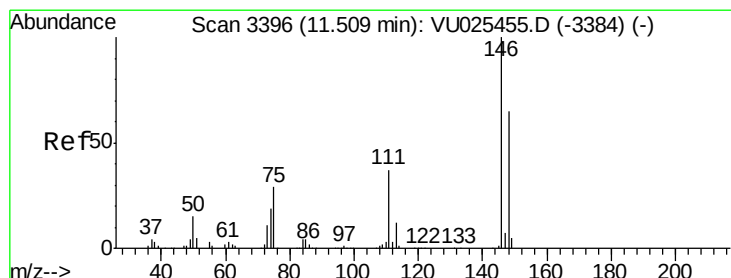
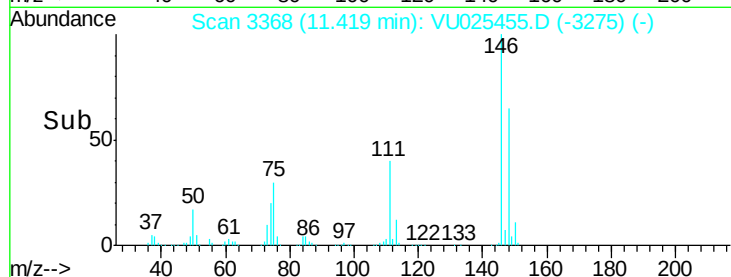
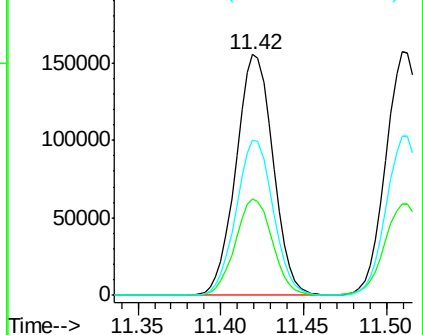
148 64.5 45.1 83.9



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: 47.603 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

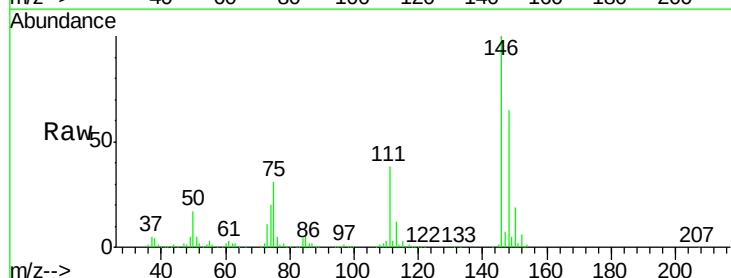
Tgt Ion:146 Resp: 244589

Ion Ratio Lower Upper

146 100

111 37.7 26.4 49.0

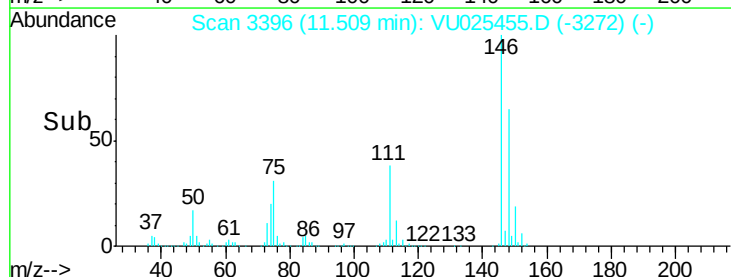
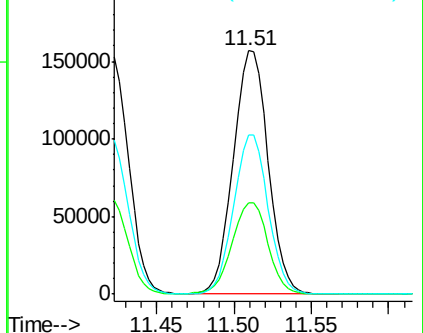
148 65.2 45.6 84.8

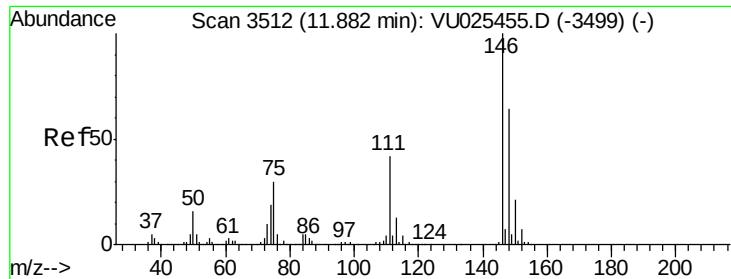


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

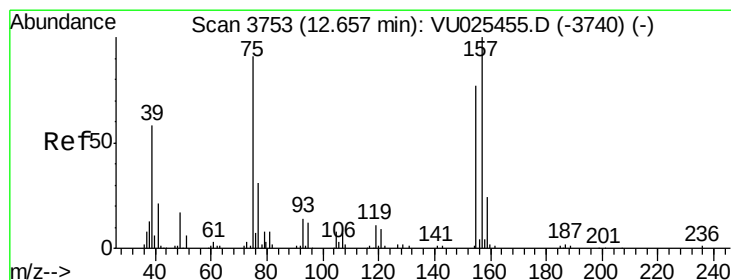
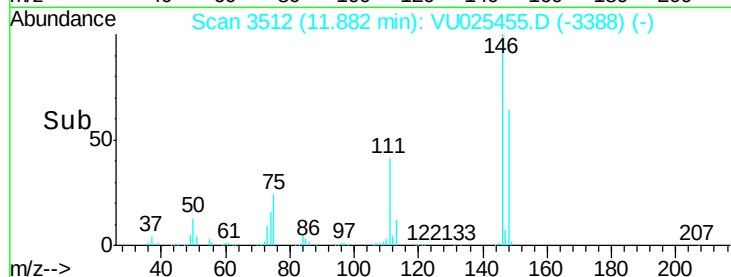
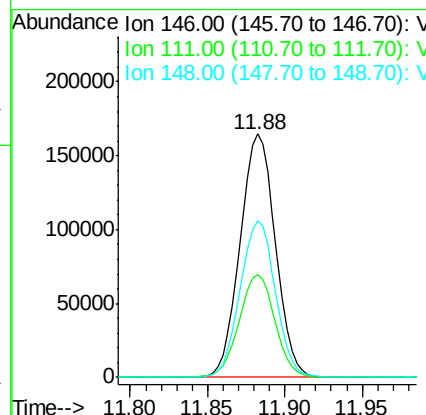
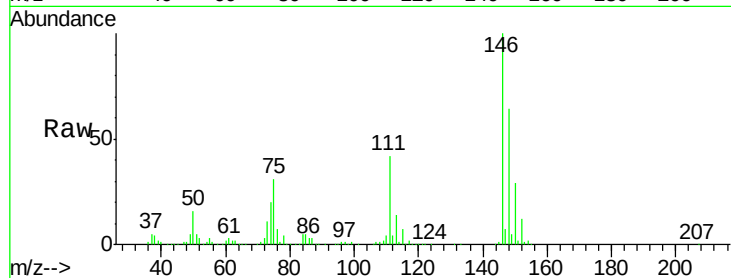




#65
 1,2-Dichlorobenzene
 Concen: 48.639 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

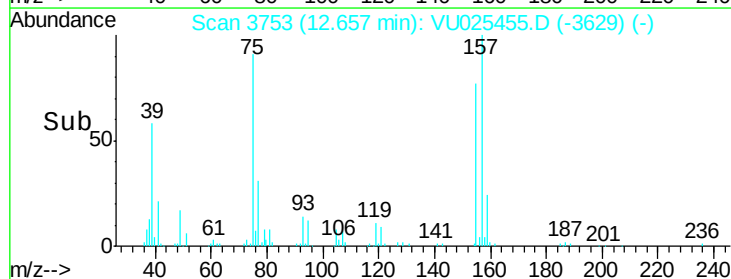
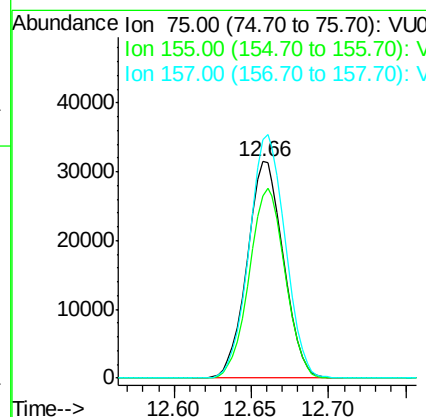
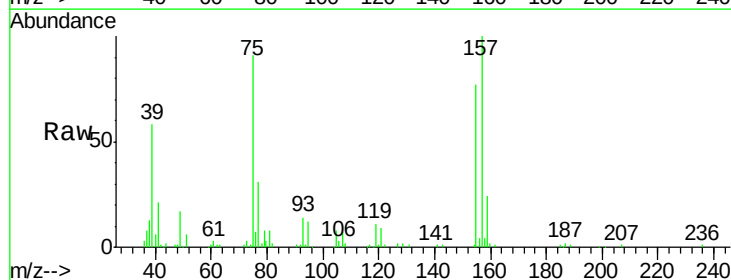
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

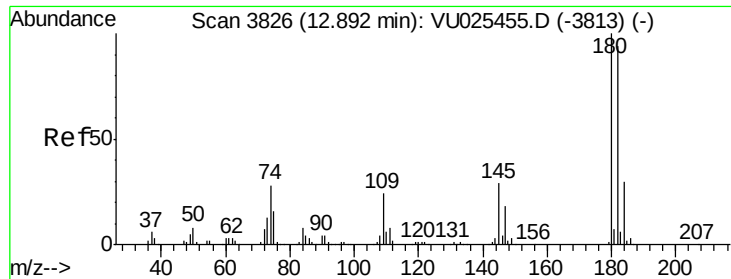
Tgt Ion: 146 Resp: 261129
 Ion Ratio Lower Upper
 146 100
 111 42.2 33.8 50.6
 148 64.4 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.078 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

Tgt Ion: 75 Resp: 51319
 Ion Ratio Lower Upper
 75 100
 155 84.2 67.4 101.0
 157 109.9 87.9 131.9

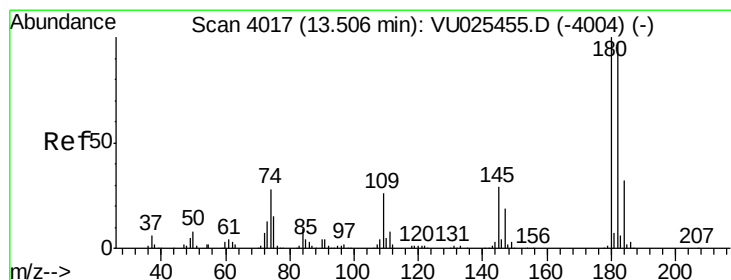
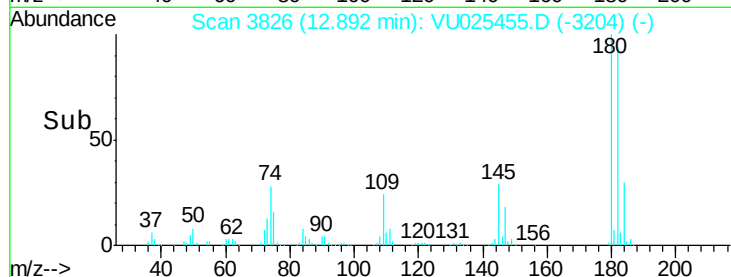
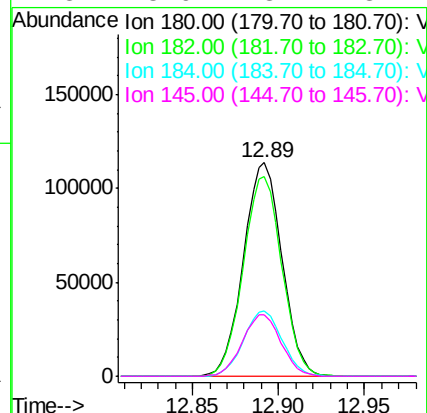
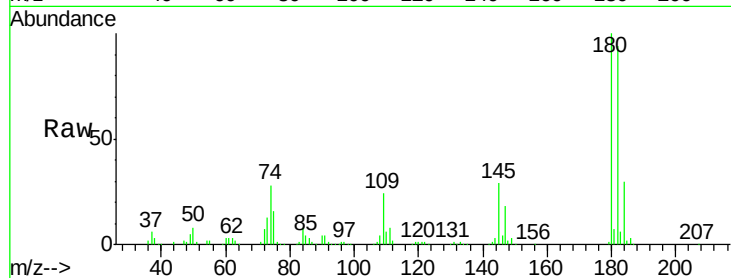




#67
 1,3,5-Trichlorobenzene
 Concen: 45.210 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

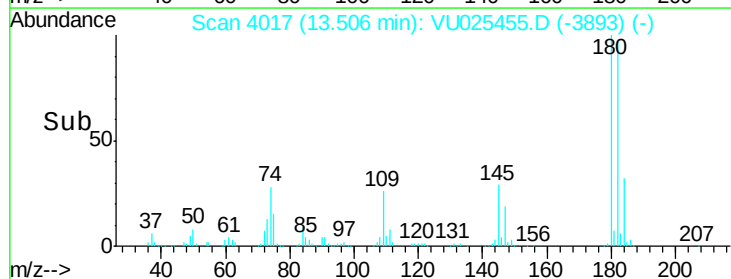
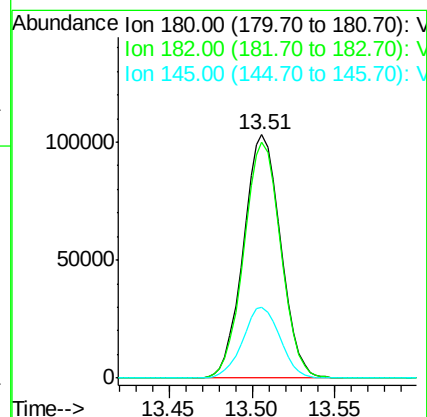
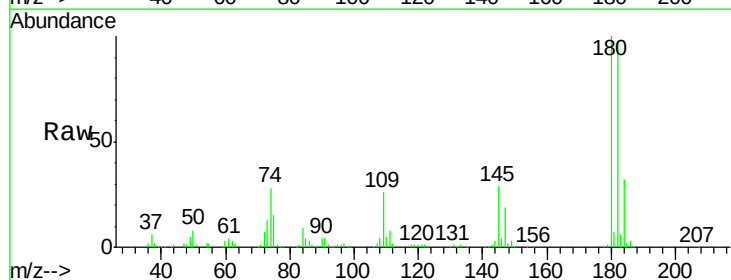
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

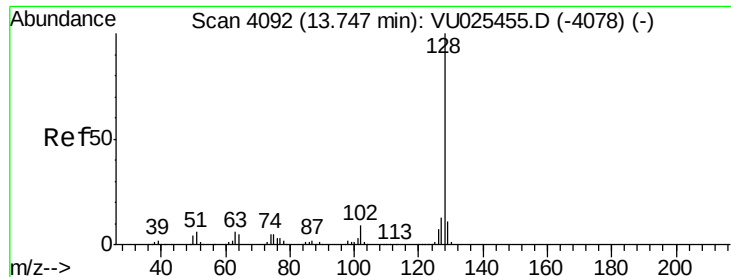
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.1	112.7
184	30.7	24.6	36.8
145	28.9	23.1	34.7



#68
 1,2,4-trichlorobenzene
 Concen: 46.288 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025455.D
 Acq: 17 Jul 2018 12:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.6	115.0
145	29.3	23.4	35.2





#69

Naphthalene

Concen: 50.478 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

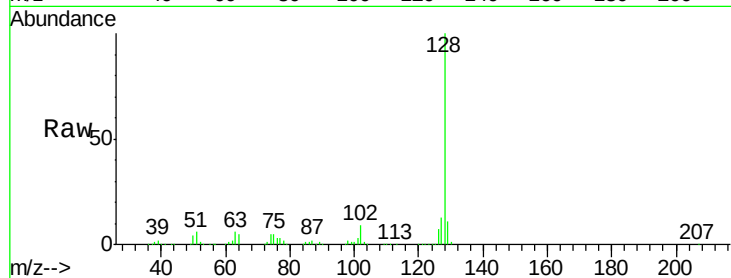
Tgt Ion:128 Resp: 608642

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

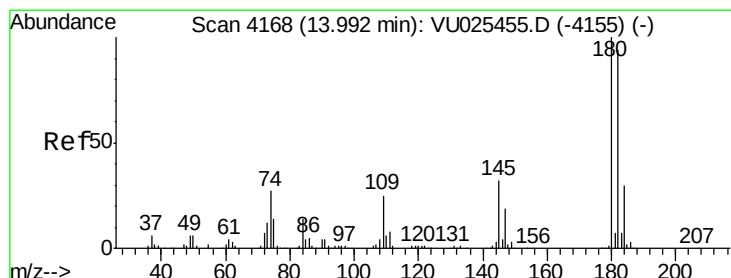
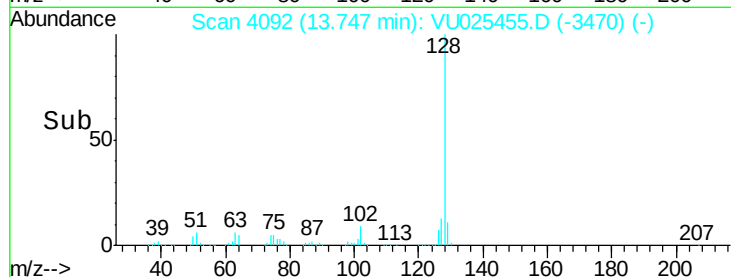
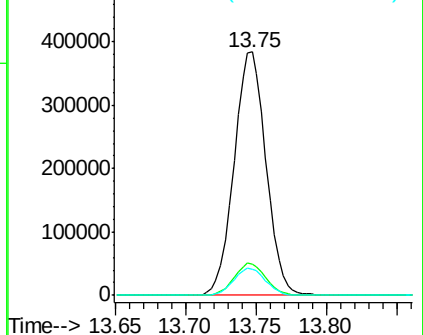
129 11.1 8.9 13.3



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: 48.370 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025455.D

Acq: 17 Jul 2018 12:20

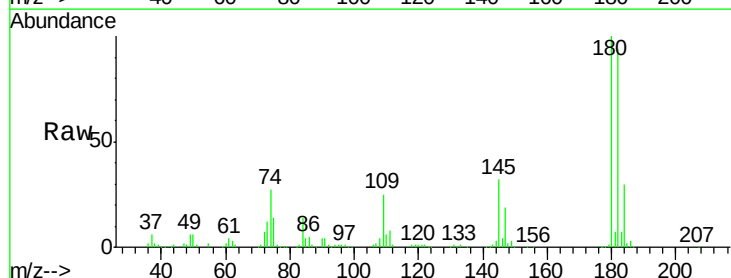
Tgt Ion:180 Resp: 181792

Ion Ratio Lower Upper

180 100

182 94.8 75.8 113.8

145 31.6 25.3 37.9



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

