

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072618\
 Data File : VU025642.D
 Acq On : 26 Jul 2018 09:40
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Quant Time: Jul 27 01:54:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jul 26 19:03:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	293031	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	277667	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	152572	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	79490	47.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.04%
7) Chloroethane-d5	1.68	69	66036	47.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.72%
11) 1,1-Dichloroethene-d2	2.27	63	158709	45.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.14%
21) 2-Butanone-d5	4.18	46	131897	102.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.13%
24) Chloroform-d	4.65	84	178935	48.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.04%
26) 1,2-Dichloroethane-d4	5.31	65	118361	48.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.06%
32) Benzene-d6	5.35	84	338053	47.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.94%
36) 1,2-Dichloropropane-d6	6.33	67	109064	47.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.06%
41) Toluene-d8	7.57	98	327493	47.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.90%
43) trans-1,3-Dichloropropene-	7.85	79	55402	47.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.54%
47) 2-Hexanone-d5	8.31	63	94549	98.41	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.41%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	154669	48.19	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.38%
64) 1,2-Dichlorobenzene-d4	11.86	152	142361	46.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.08%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	118532	41.054	ug/L 99
3) Chloromethane	1.33	50	96225	46.149	ug/L 99
5) Vinyl chloride	1.41	62	95834	41.905	ug/L 99
6) Bromomethane	1.63	94	40229	50.583	ug/L 89
8) Chloroethane	1.70	64	57891	42.990	ug/L 98
9) Trichlorofluoromethane	1.89	101	141578	43.473	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	80491	44.136	ug/L 98
12) 1,1-Dichloroethene	2.28	96	71672	43.340	ug/L 91
13) Acetone	2.32	43	140237	92.511	ug/L 100
14) Carbon disulfide	2.48	76	223968	41.592	ug/L 99
15) Methyl Acetate	2.62	43	92755	44.264	ug/L 99
16) Methylene chloride	2.70	84	88051	42.743	ug/L 98
17) trans-1,2-Dichloroethene	2.99	96	80950	42.515	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	266435	42.966	ug/L 99
19) 1,1-Dichloroethane	3.45	63	157130	43.383	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	93197	43.363	ug/L 95
22) 2-Butanone	4.26	43	152890	90.597	ug/L 97

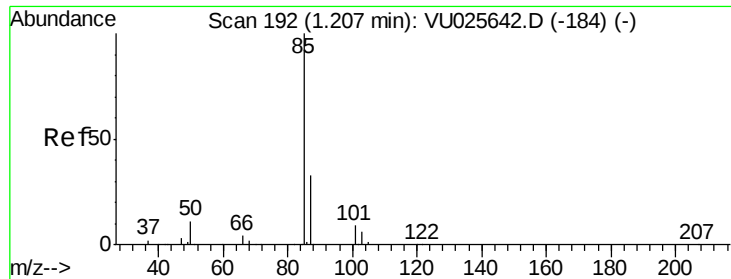
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072618\
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 Quant Title : VOC Analysis
 QLast Update : Thu Jul 26 19:03:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	49494	43.630	ug/L	97
25) Chloroform	4.68	83	166490	43.684	ug/L	99
27) 1,2-Dichloroethane	5.41	62	135255	43.509	ug/L	98
29) Cyclohexane	5.00	56	133609	41.533	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	147931	42.576	ug/L	99
31) Carbon tetrachloride	5.14	117	138427	43.086	ug/L	99
33) Benzene	5.39	78	343752	43.086	ug/L	100
34) Trichloroethene	6.19	95	93162	44.009	ug/L	96
35) Methylcyclohexane	6.42	83	148163	43.408	ug/L	99
37) 1,2-Dichloropropane	6.44	63	93876	43.059	ug/L	99
38) Bromodichloromethane	6.76	83	126995	44.180	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	145562	43.022	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	255467	89.229	ug/L	99
42) Toluene	7.64	91	373983	43.467	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	142056	44.531	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	88005	42.083	ug/L	99
46) Tetrachloroethene	8.23	164	79528	43.335	ug/L	98
48) 2-Hexanone	8.36	43	223075	92.209	ug/L	99
49) Dibromochloromethane	8.48	129	108490	44.226	ug/L	98
50) 1,2-Dibromoethane	8.59	107	98189	43.582	ug/L	97
51) Chlorobenzene	9.12	112	254775	43.985	ug/L	99
52) Ethylbenzene	9.25	91	419778	44.205	ug/L	100
53) m,p-Xylene	9.38	106	164481	45.219	ug/L	99
54) o-xylene	9.78	106	159092	43.104	ug/L	98
55) Styrene	9.80	104	277192	46.112	ug/L	99
56) Isopropylbenzene	10.17	105	425313	44.652	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	146131	43.321	ug/L	97
59) 1,2,3-Trichloropropane	10.50	75	111984	43.730	ug/L	100
61) Bromoform	9.96	173	82016	41.559	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	210868	43.693	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	213791	43.397	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	216670	42.854	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	32952	41.440	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	170736	45.832	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	148927	47.567	ug/L	98
69) Naphthalene	13.75	128	418626	44.462	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	150809	45.566	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 41.054 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

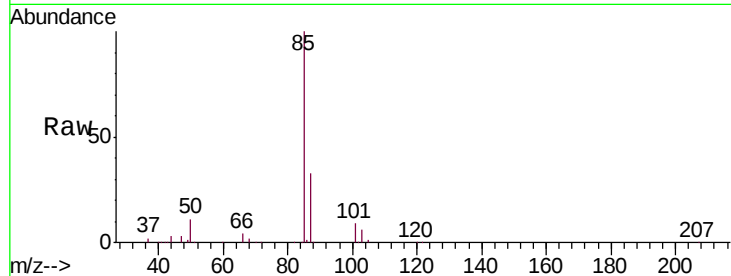
VSTD05041

Tot Ion: 85 Resp: 118532

Ion Ratio Lower Upper

85 100

87 32.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU025642.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU025642.D (-184) (-)

1.21

120000

100000

80000

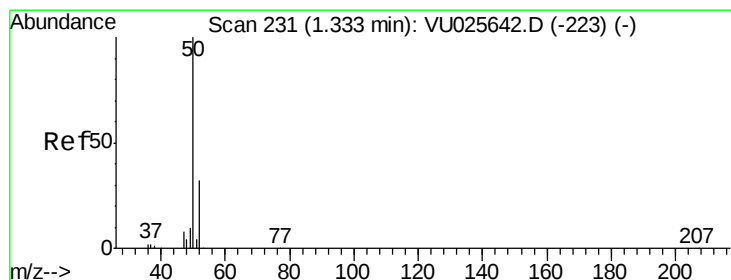
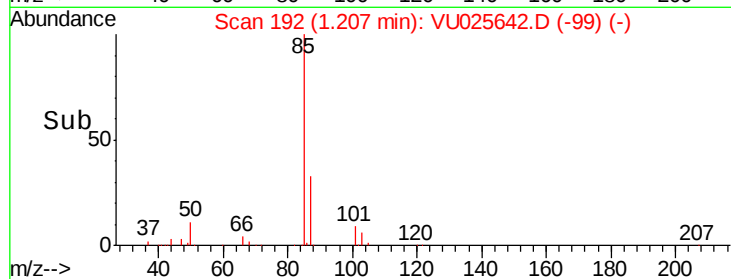
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 46.149 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025642.D

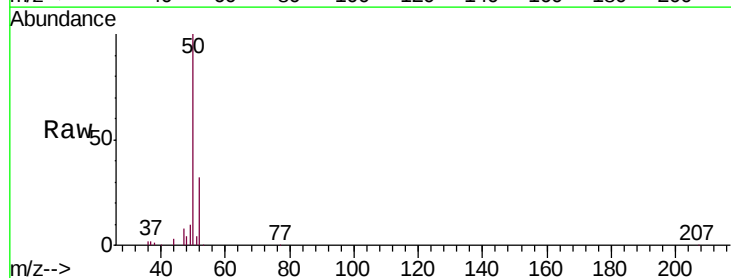
Acq: 26 Jul 2018 09:40

Tgt Ion: 50 Resp: 96225

Ion Ratio Lower Upper

50 100

52 32.4 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU025642.D (-223) (-)

Ion 52.00 (51.70 to 52.70): VU025642.D (-223) (-)

1.33

100000

80000

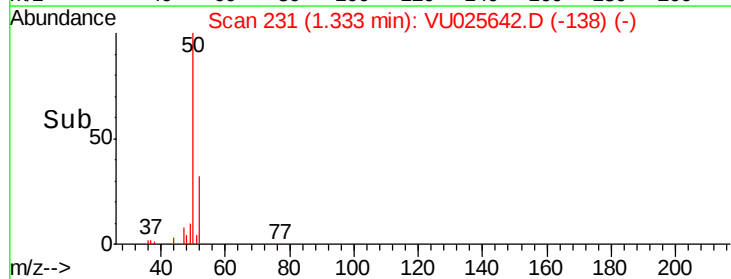
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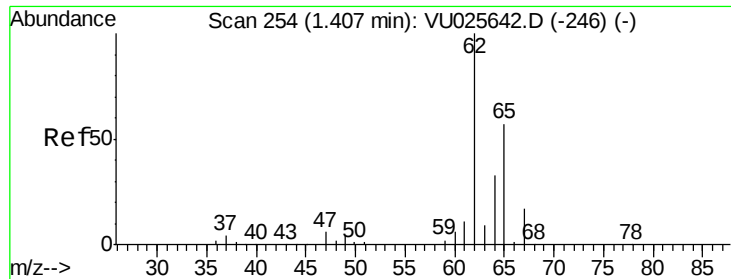
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 41.905 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

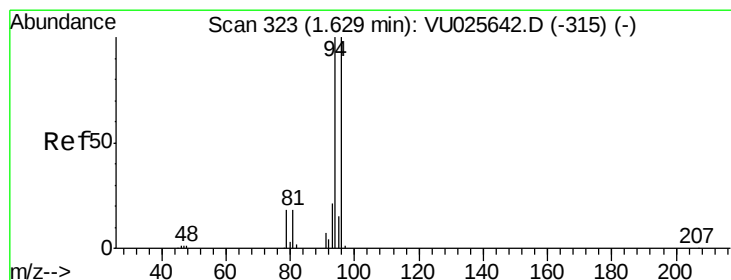
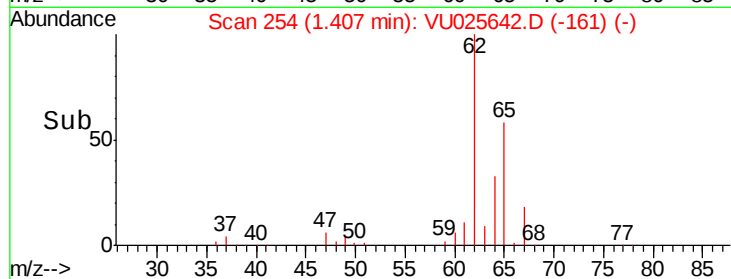
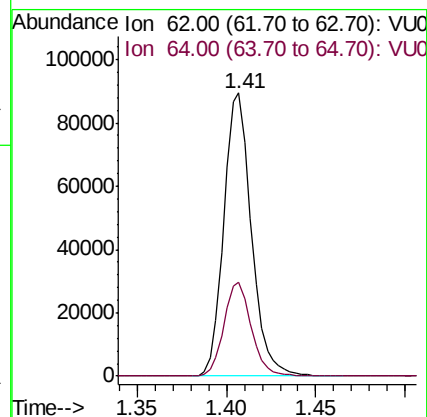
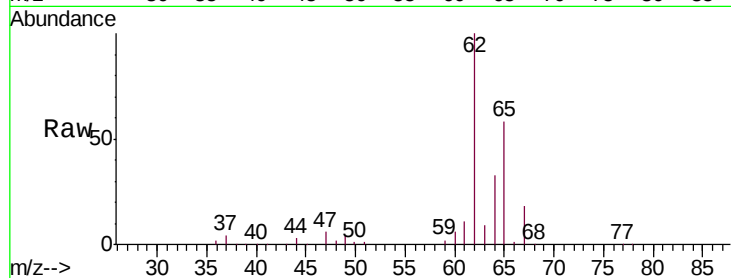
VSTD05041

Tot Ion: 62 Resp: 95834

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.1



#6

Bromomethane

Concen: 50.583 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025642.D

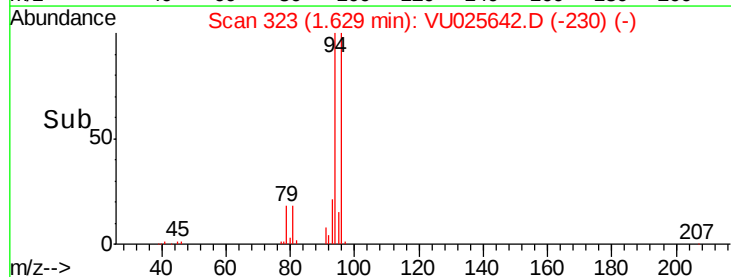
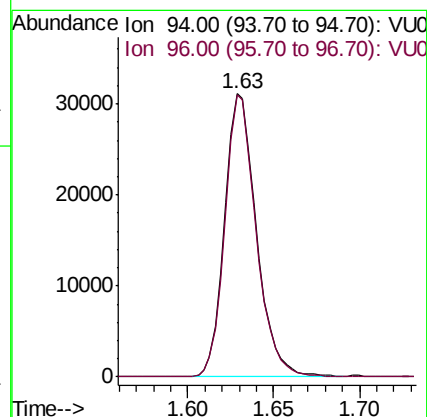
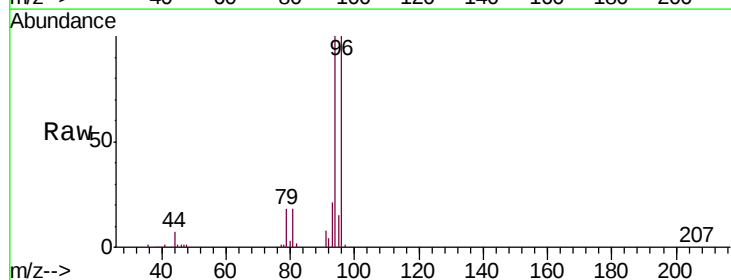
Acq: 26 Jul 2018 09:40

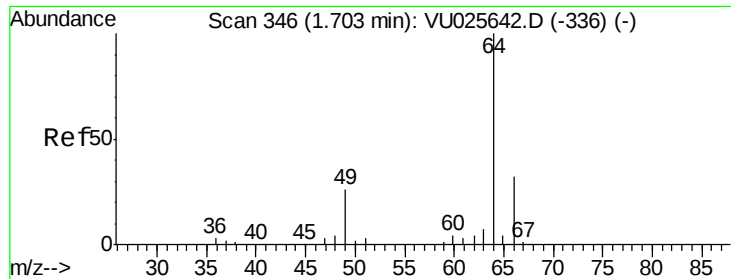
Tgt Ion: 94 Resp: 40229

Ion Ratio Lower Upper

94 100

96 99.6 62.4 115.8

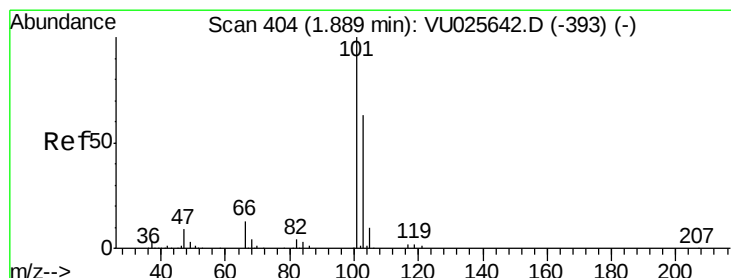
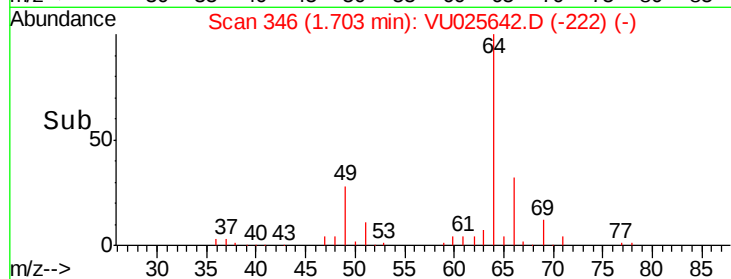
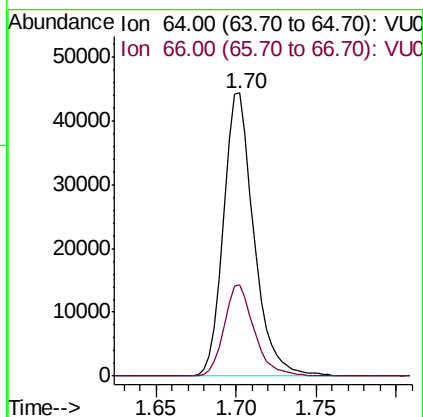
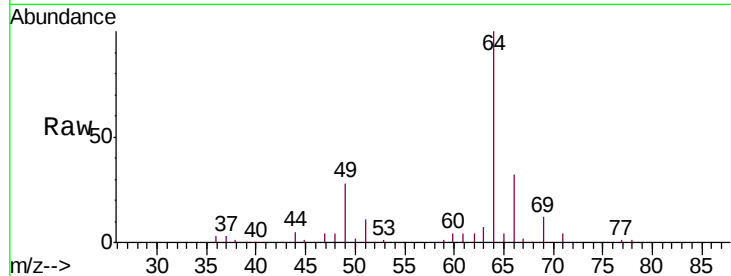




#8
Chloroethane
Concen: 42.990 ug/L
RT: 1.70 min Scan# 346
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

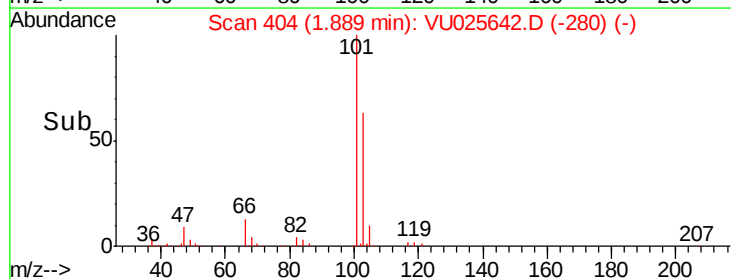
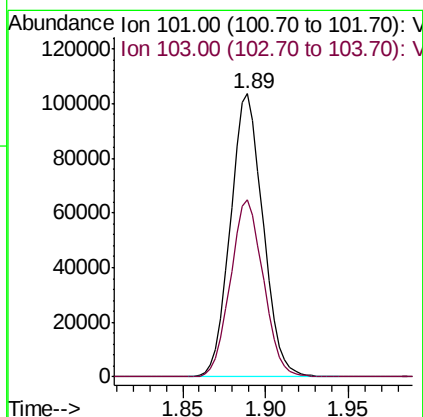
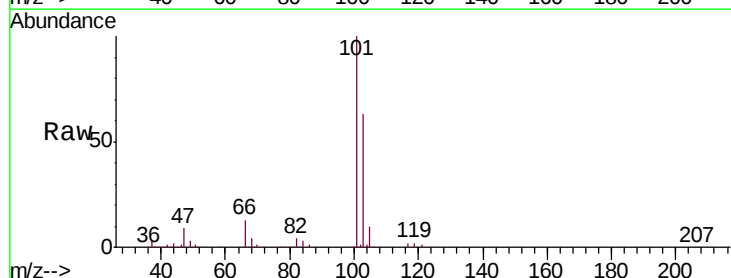
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

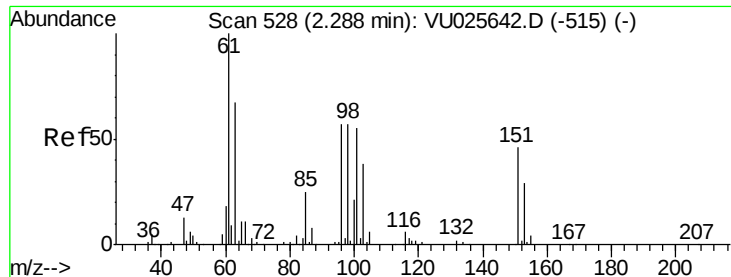
Tot Ion: 64 Resp: 57891
Ion Ratio Lower Upper
64 100
66 32.2 23.5 43.7



#9
Trichlorofluoromethane
Concen: 43.473 ug/L
RT: 1.89 min Scan# 404
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

Tgt Ion: 101 Resp: 141578
Ion Ratio Lower Upper
101 100
103 63.4 52.0 78.0





#10

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

Concen: 44.136 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampled :

VSTD05041

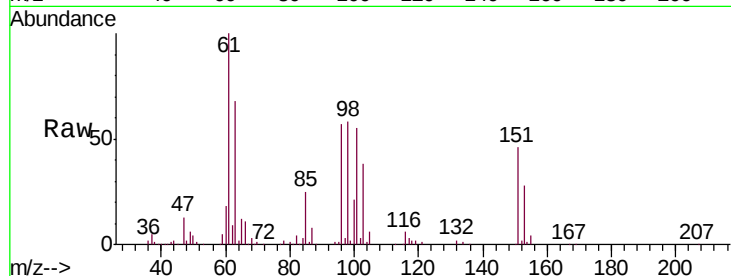
Tot Ion:101 Resp: 80491

Ion Ratio Lower Upper

101 100

85 45.6 35.5 53.3

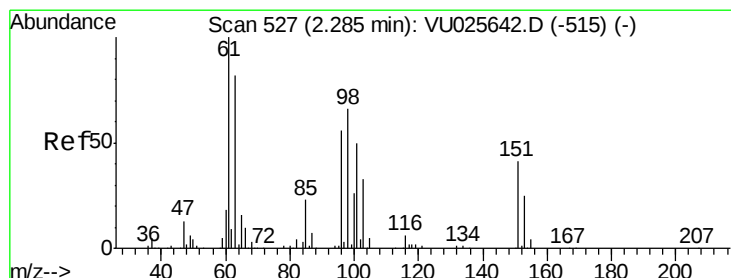
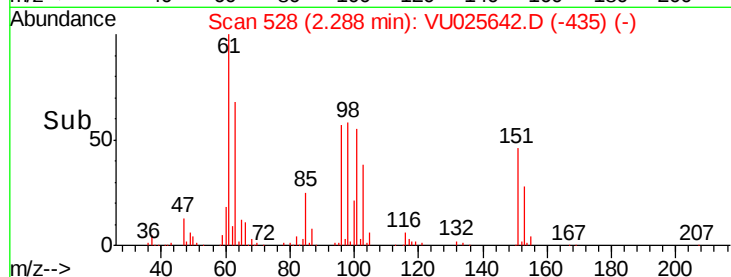
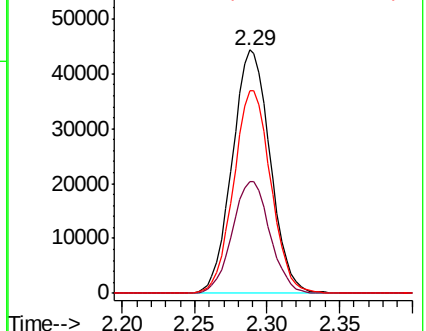
151 81.8 63.5 95.3



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: 43.340 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

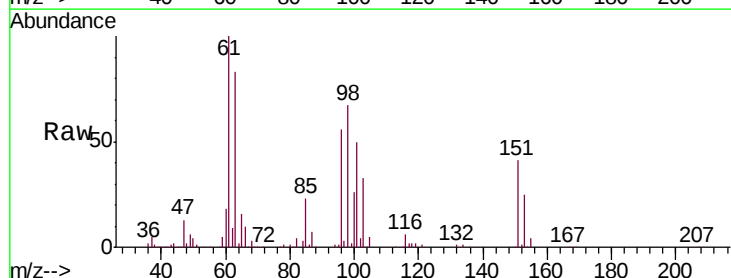
Tgt Ion: 96 Resp: 71672

Ion Ratio Lower Upper

96 100

61 180.1 122.5 227.5

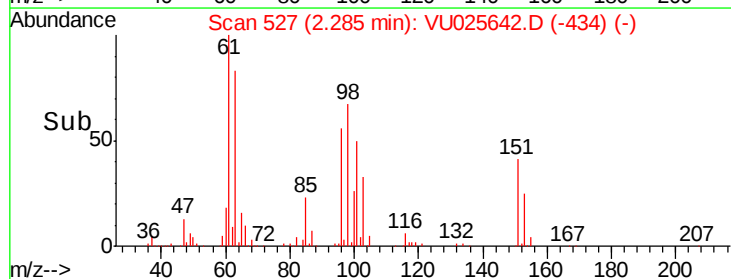
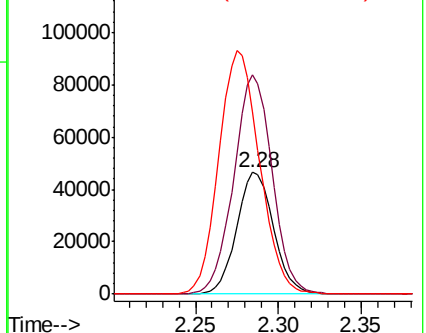
63 149.9 90.9 168.9

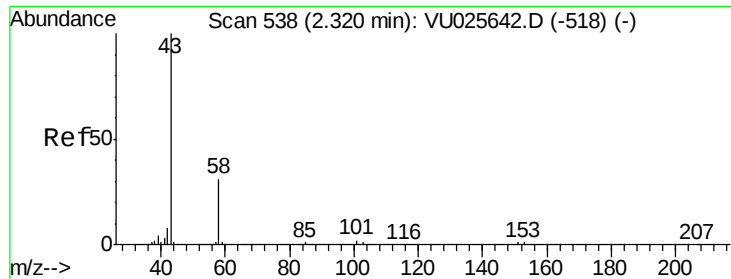


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.511 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

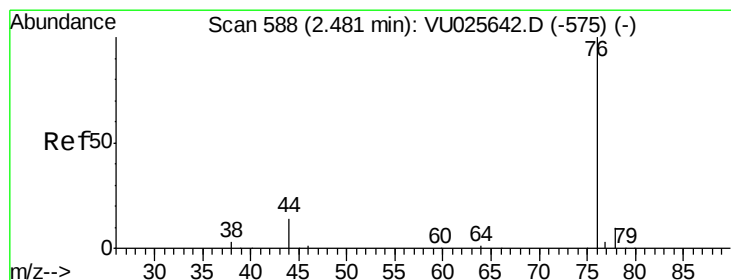
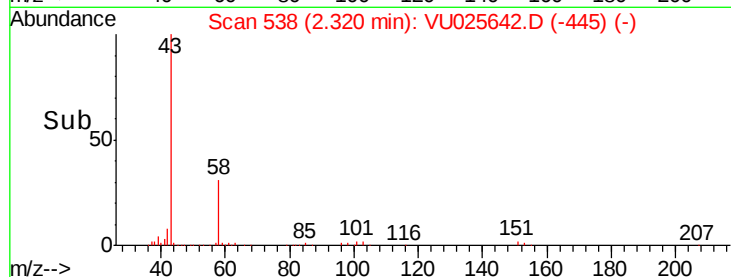
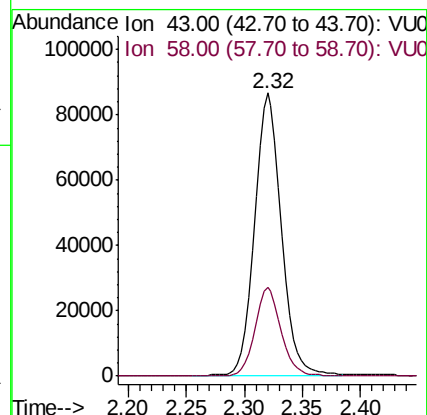
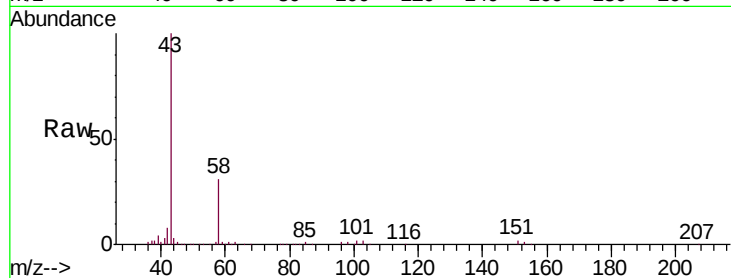
VSTD05041

Tot Ion: 43 Resp: 140237

Ion Ratio Lower Upper

43 100

58 30.6 0.0 61.2



#14

Carbon disulfide

Concen: 41.592 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU025642.D

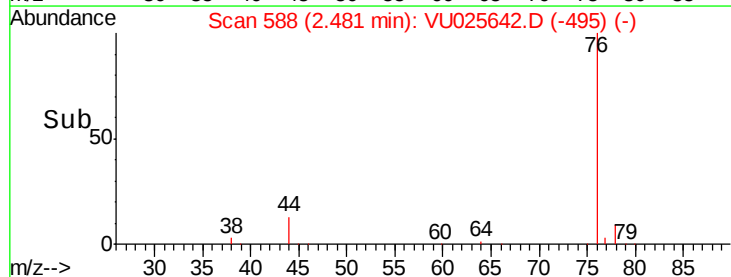
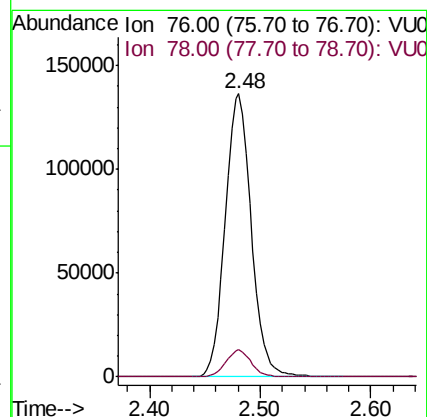
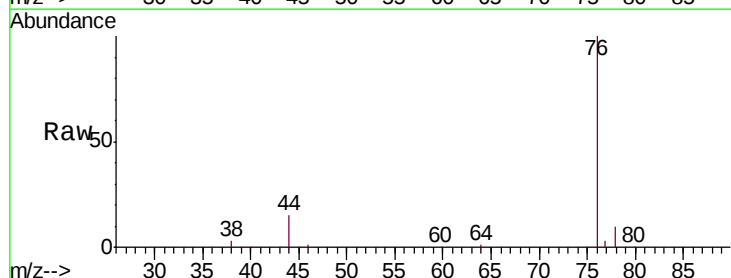
Acq: 26 Jul 2018 09:40

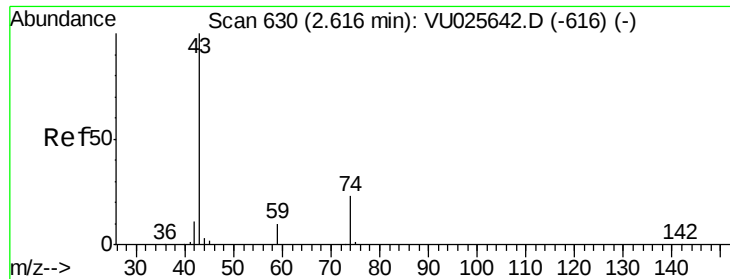
Tgt Ion: 76 Resp: 223968

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.0

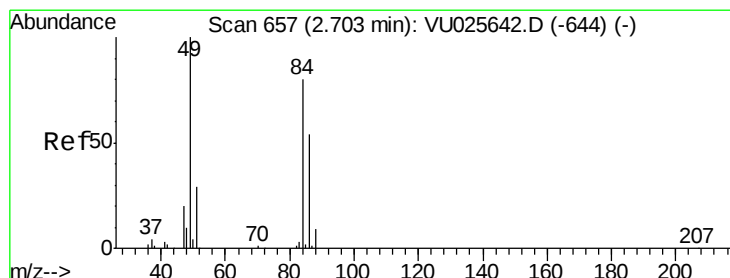
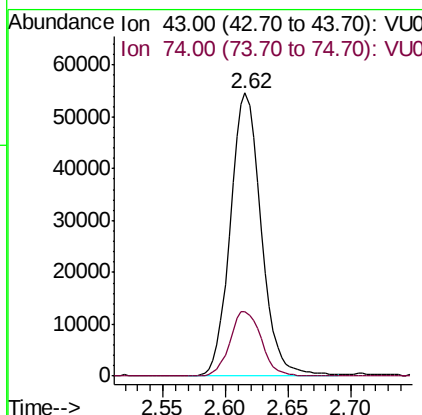
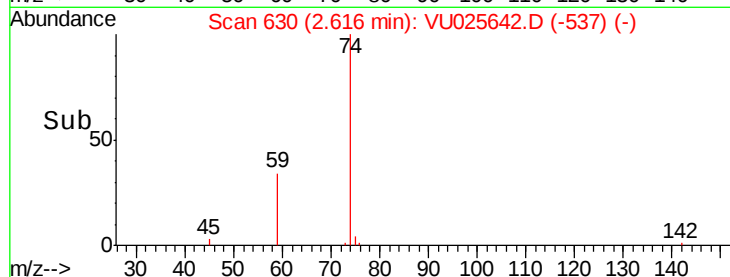
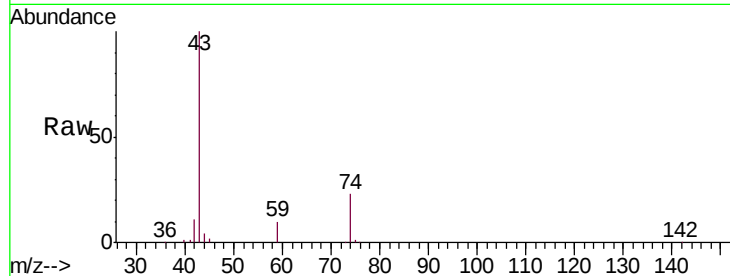




#15
Methvl Acetate
Concen: 44.264 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

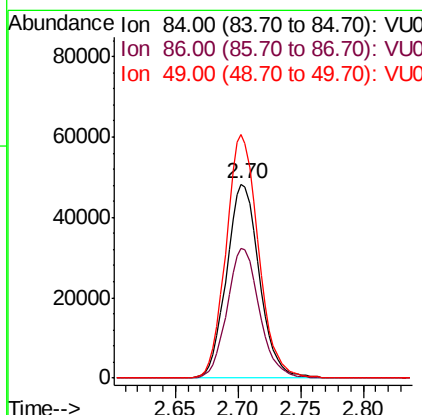
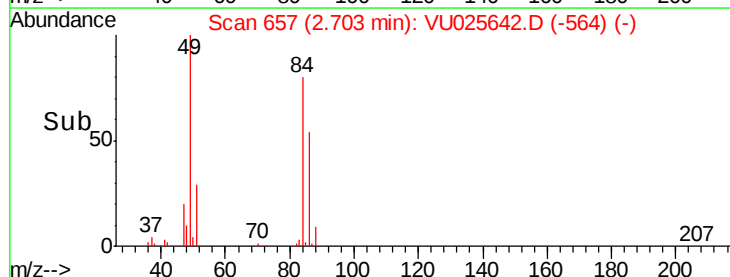
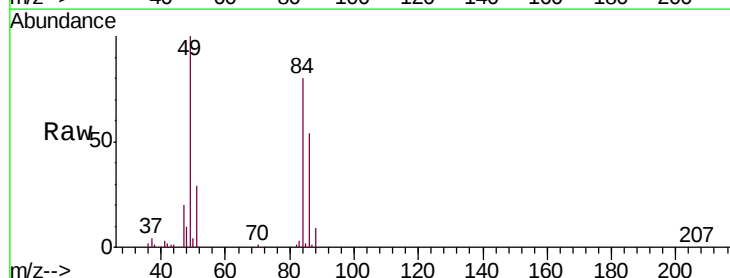
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

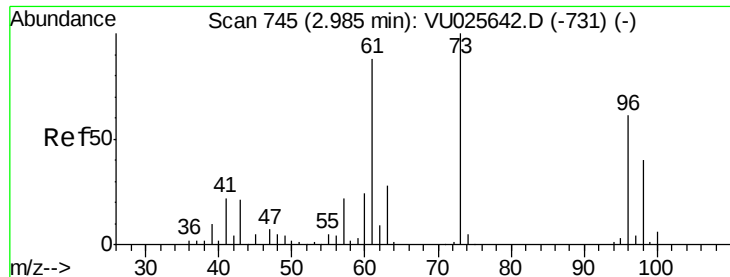
Tot Ion: 43 Resp: 92755
Ion Ratio Lower Upper
43 100
74 23.3 18.3 27.5



#16
Methylene chloride
Concen: 42.743 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

Tgt Ion: 84 Resp: 88051
Ion Ratio Lower Upper
84 100
86 67.1 45.6 84.6
49 125.5 87.0 161.6

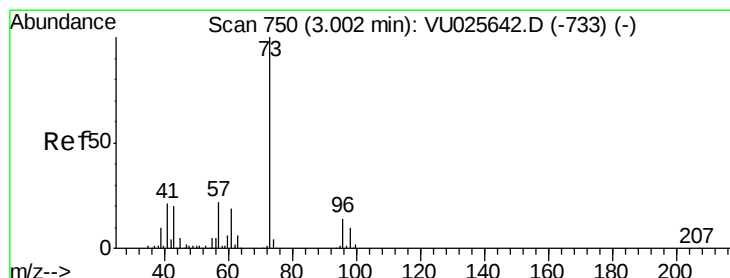
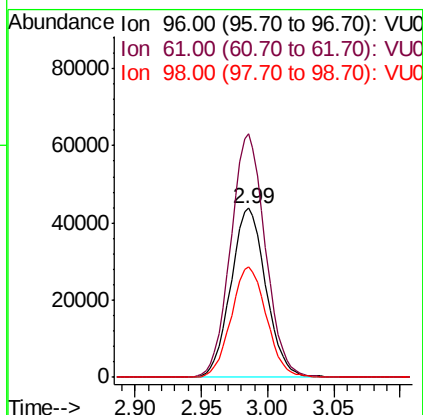
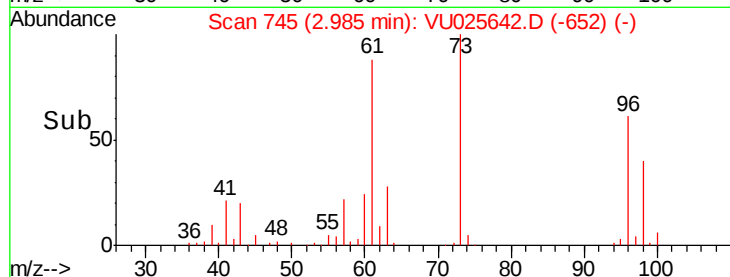
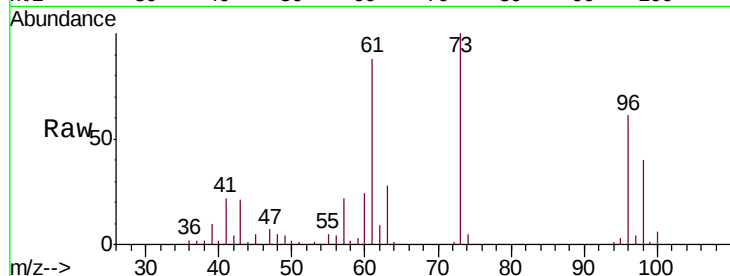




#17
trans-1,2-Dichloroethene
Concen: 42.515 ug/L
RT: 2.99 min Scan# 745
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

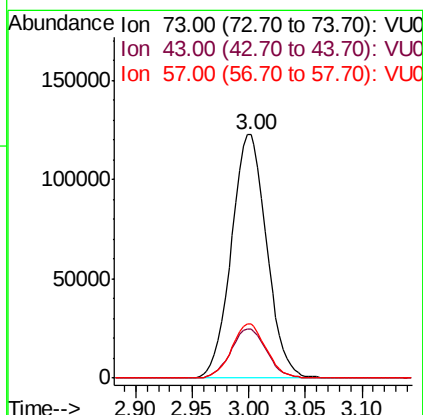
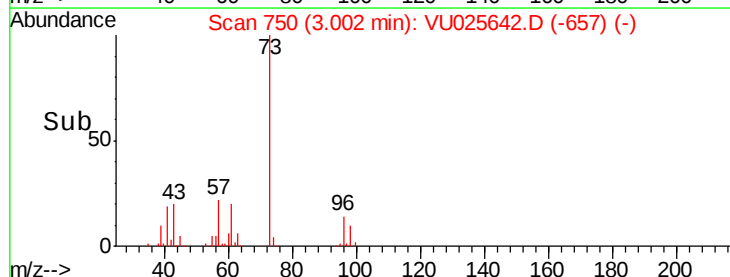
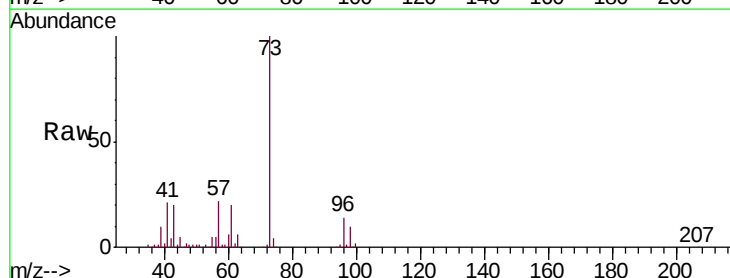
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

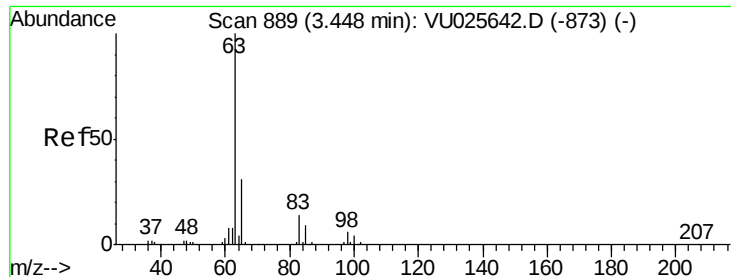
Tot Ion: 96 Resp: 80950
Ion Ratio Lower Upper
96 100
61 143.9 100.0 185.8
98 65.4 44.7 83.1



#18
Methyl tert-butyl Ether
Concen: 42.966 ug/L
RT: 3.00 min Scan# 750
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

Tgt Ion: 73 Resp: 266435
Ion Ratio Lower Upper
73 100
43 20.7 16.2 24.2
57 21.7 17.1 25.7





#19

1,1-Dichloroethane

Concen: 43.383 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

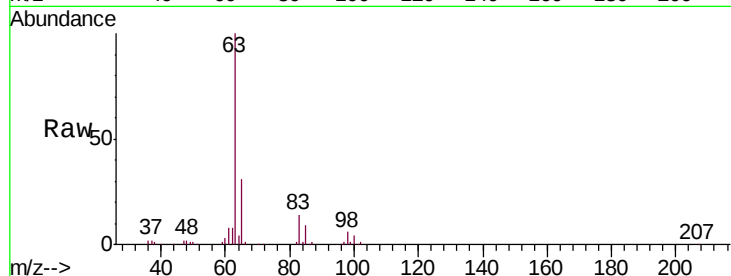
Tot Ion: 63 Resp: 157130

Ion Ratio Lower Upper

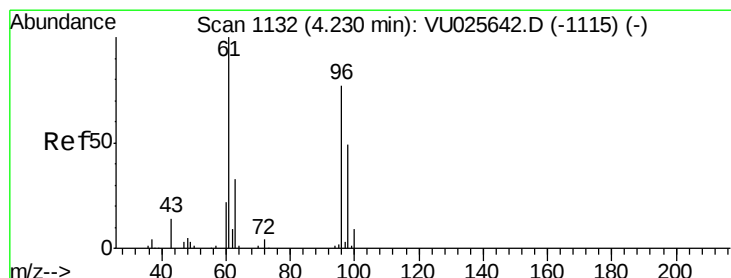
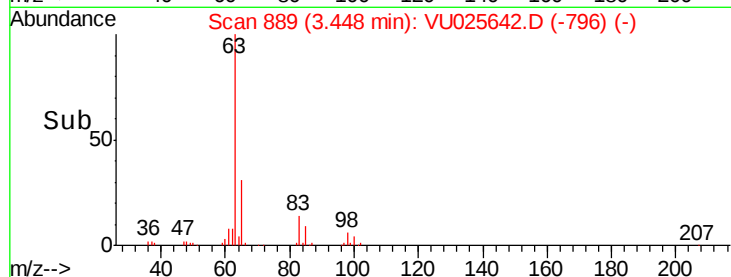
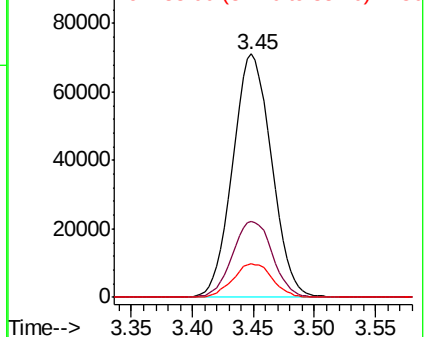
63 100

65 31.1 22.0 41.0

83 13.6 9.6 17.8



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: 43.363 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

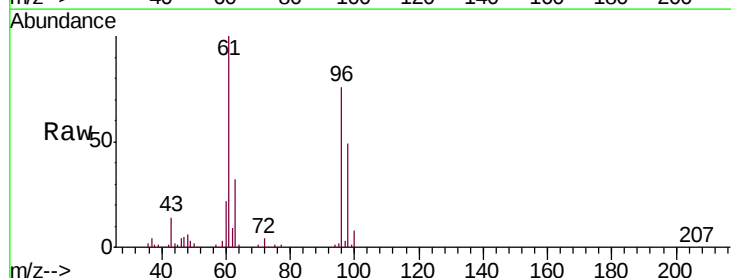
Tgt Ion: 96 Resp: 93197

Ion Ratio Lower Upper

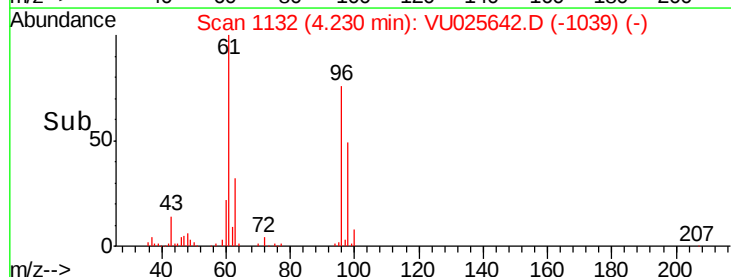
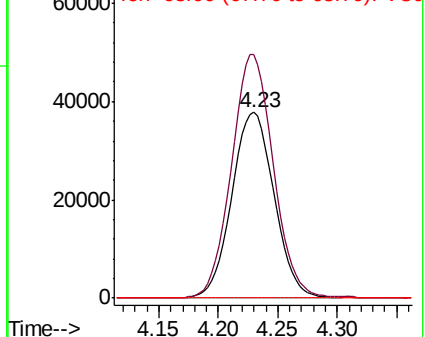
96 100

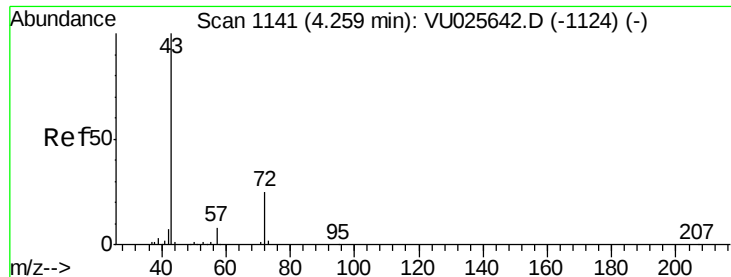
61 130.9 87.4 162.2

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: 90.597 ug/L

RT: 4.26 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

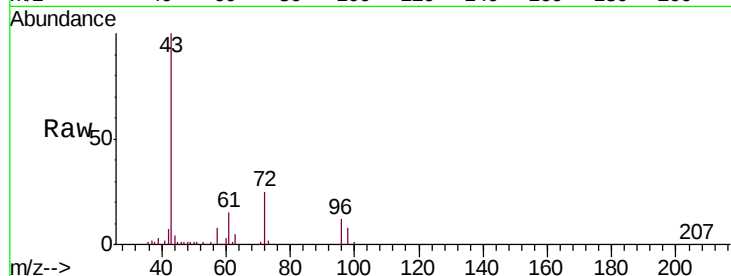
VSTD05041

Tot Ion: 43 Resp: 152890

Ion Ratio Lower Upper

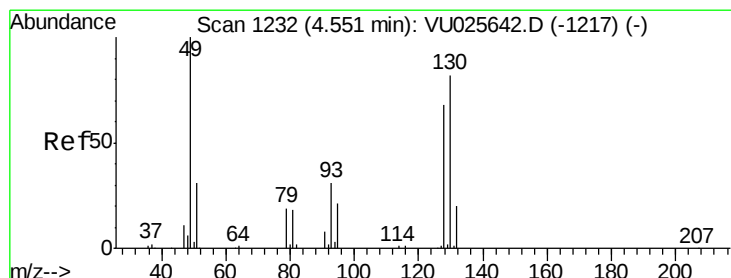
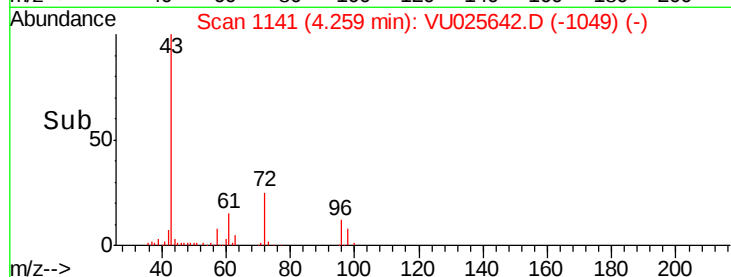
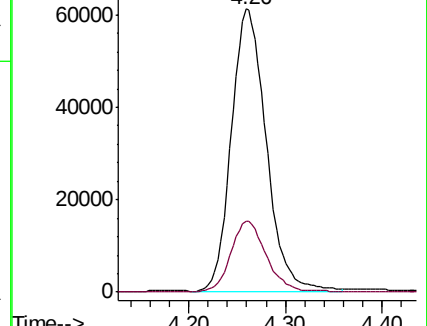
43 100

72 25.6 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025642.D (-1124) (-)

Ion 72.00 (71.70 to 72.70): VU025642.D (-1124) (-)



#23

Bromochloromethane

Concen: 43.630 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Tgt Ion:128 Resp: 49494

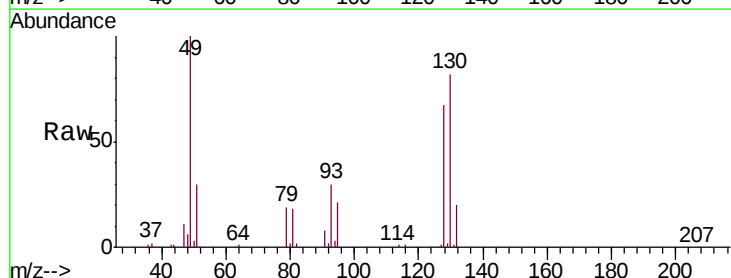
Ion Ratio Lower Upper

128 100

49 148.3 103.3 191.8

130 121.0 90.4 167.8

51 45.2 35.5 53.3

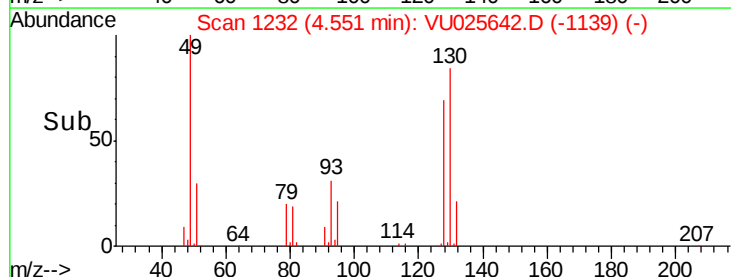
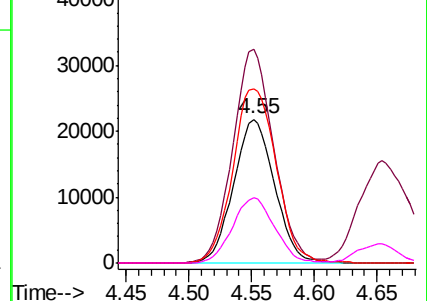


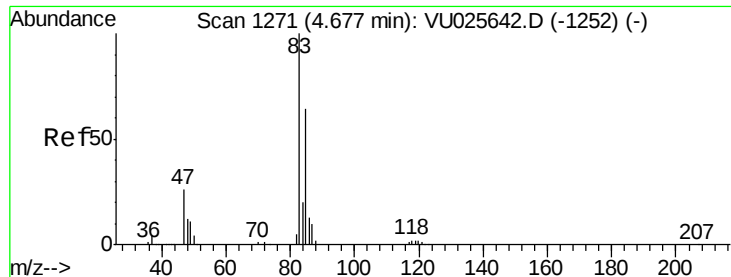
Abundance Ion 128.00 (127.70 to 128.70): VU025642.D (-1217) (-)

Ion 49.00 (48.70 to 49.70): VU025642.D (-1217) (-)

Ion 130.00 (129.70 to 130.70): VU025642.D (-1217) (-)

Ion 51.00 (50.70 to 51.70): VU025642.D (-1217) (-)





#25

Chloroform

Concen: 43.684 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

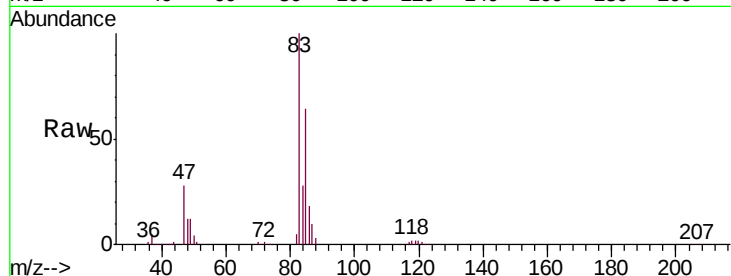
VSTD05041

Tot Ion: 83 Resp: 166490

Ion Ratio Lower Upper

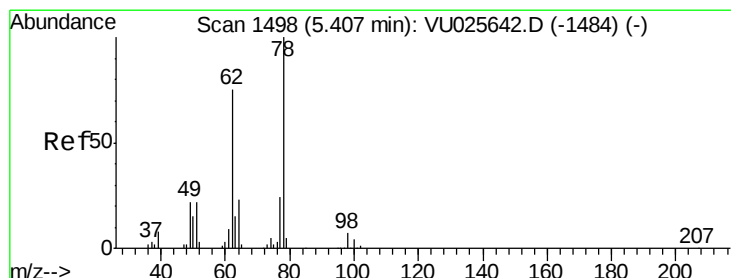
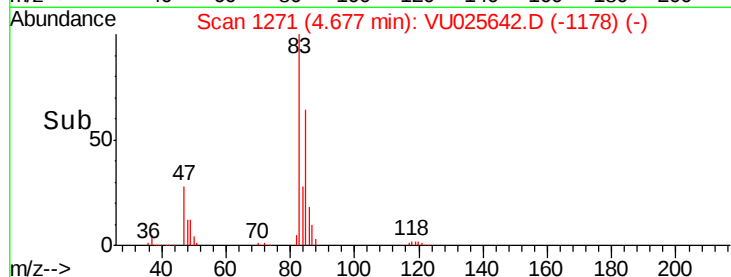
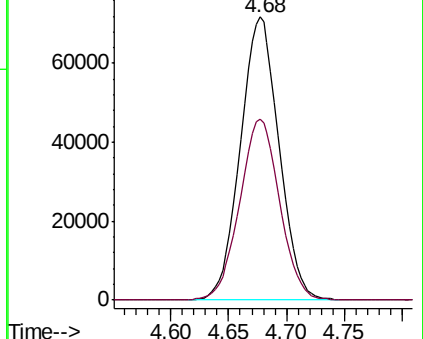
83 100

85 63.9 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 43.509 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU025642.D

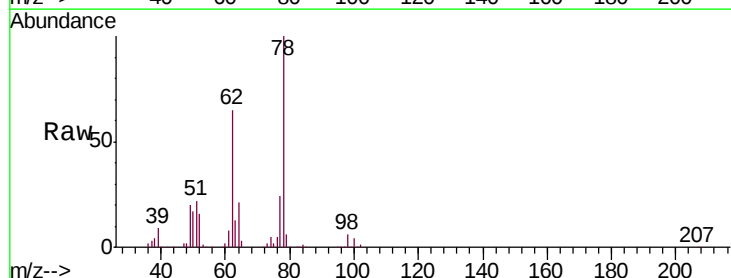
Acq: 26 Jul 2018 09:40

Tgt Ion: 62 Resp: 135255

Ion Ratio Lower Upper

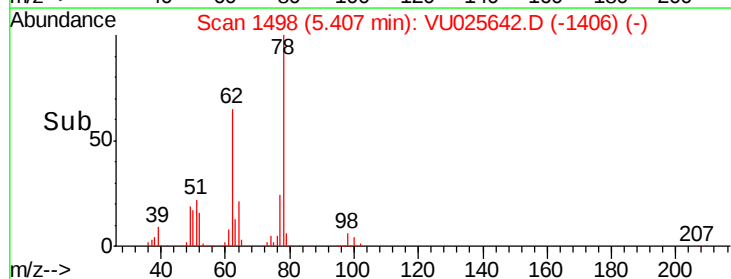
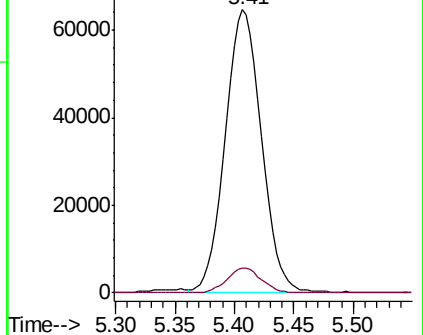
62 100

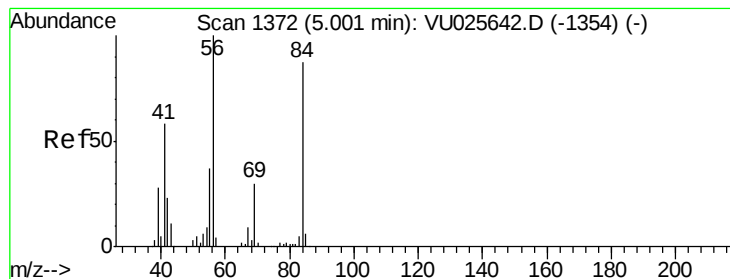
98 8.6 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#29

Cyclohexane

Concen: 41.533 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

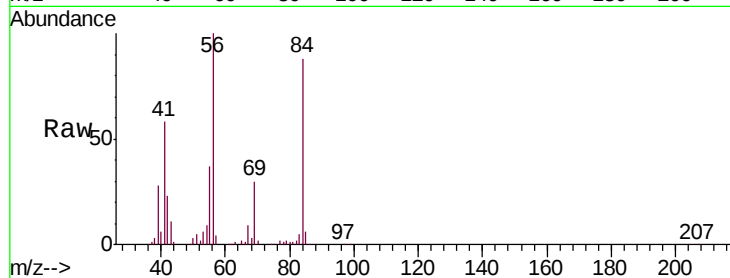
Tot Ion: 56 Resp: 133609

Ion Ratio Lower Upper

56 100

69 31.1 24.8 37.2

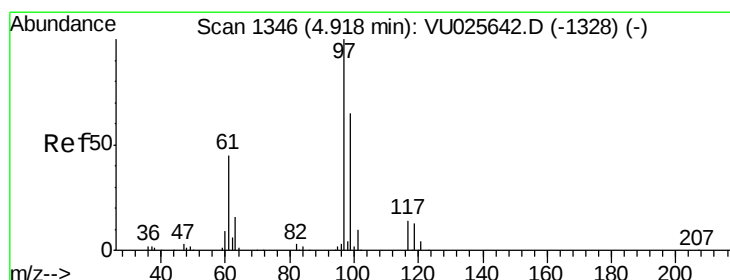
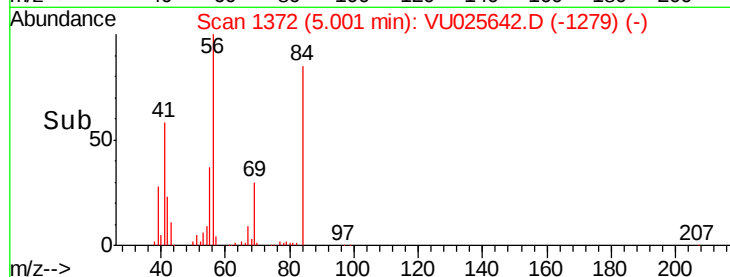
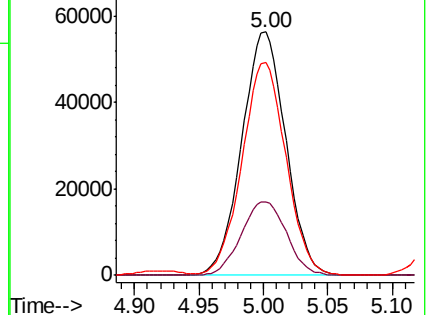
84 87.0 70.6 106.0



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: 42.576 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

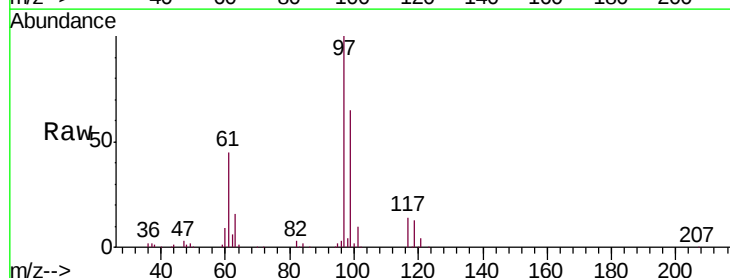
Tgt Ion: 97 Resp: 147931

Ion Ratio Lower Upper

97 100

99 65.5 52.4 78.6

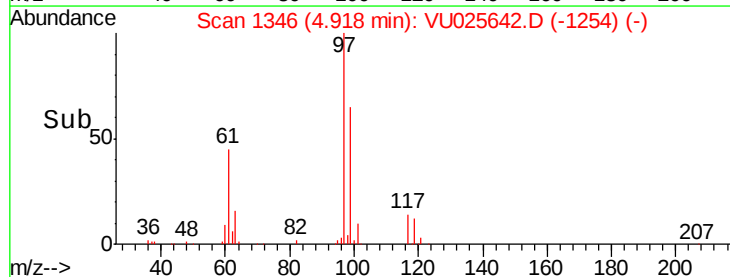
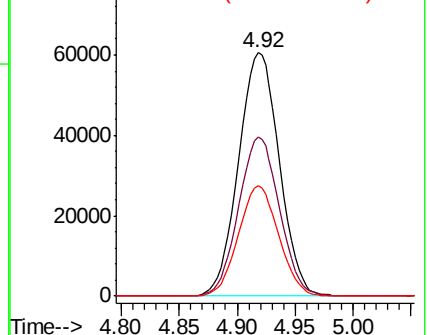
61 44.8 34.6 52.0

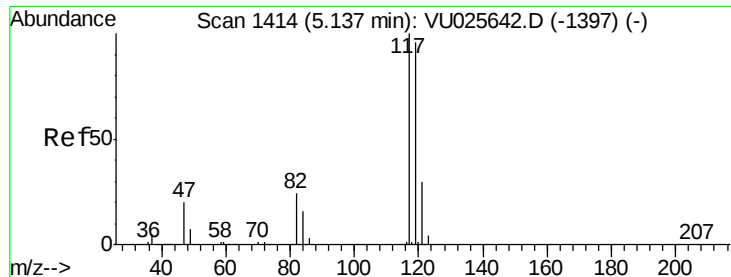


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

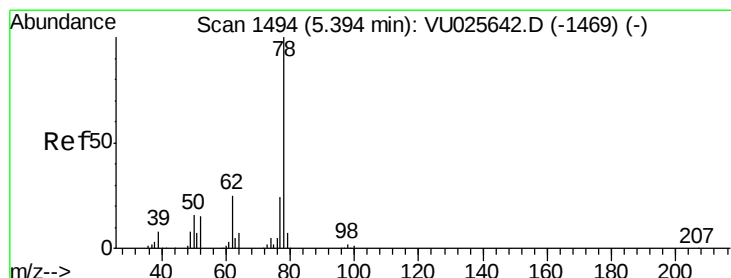
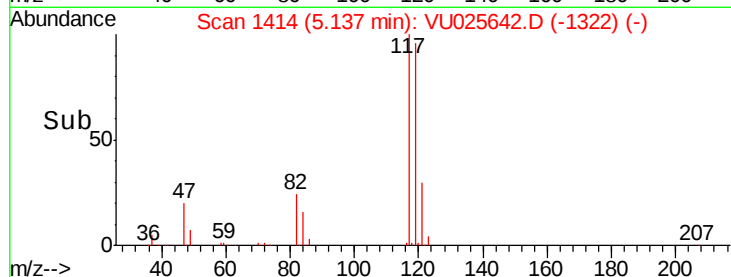
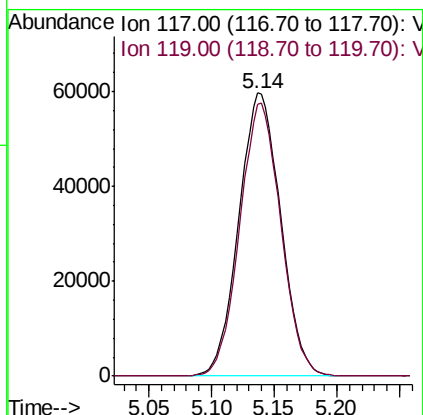
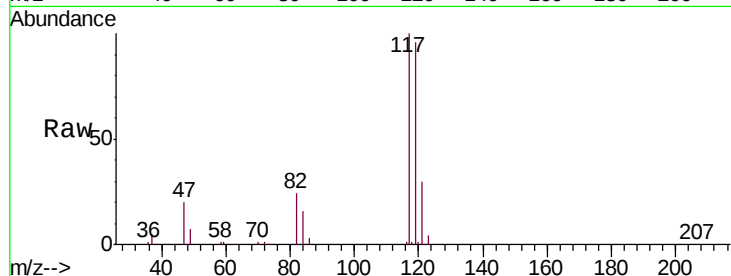




#31
Carbon tetrachloride
Concen: 43.086 ug/L
RT: 5.14 min Scan# 1414
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

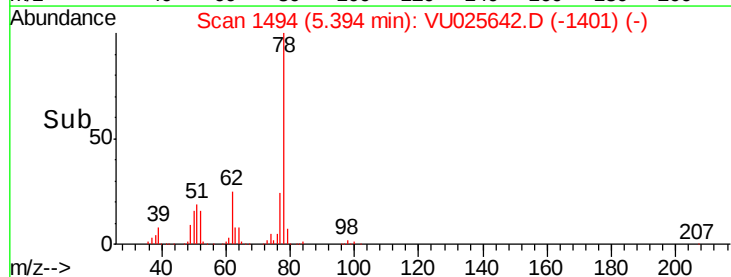
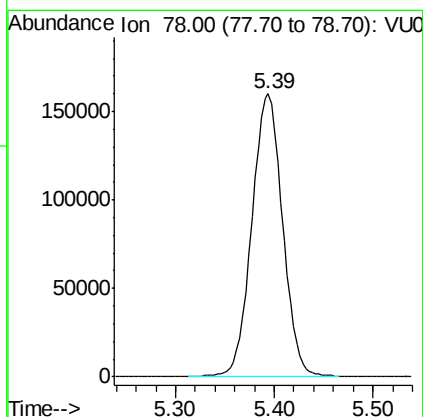
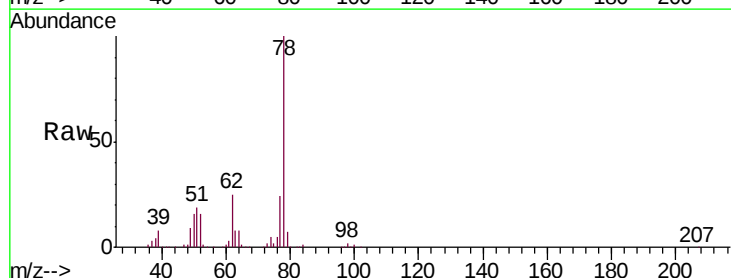
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

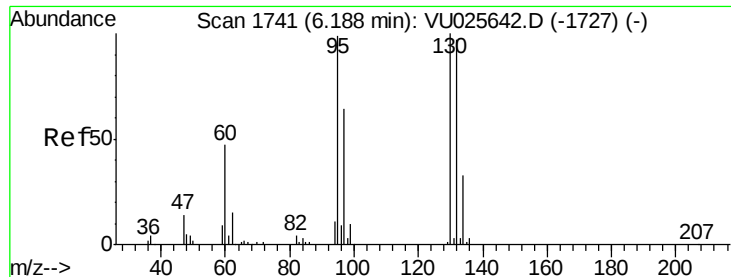
Tot Ion:117 Resp: 138427
Ion Ratio Lower Upper
117 100
119 94.4 76.6 114.8



#33
Benzene
Concen: 43.086 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

Tgt Ion: 78 Resp: 343752





#34

Trichloroethene

Concen: 44.009 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

Tot Ion: 95 Resp: 93162

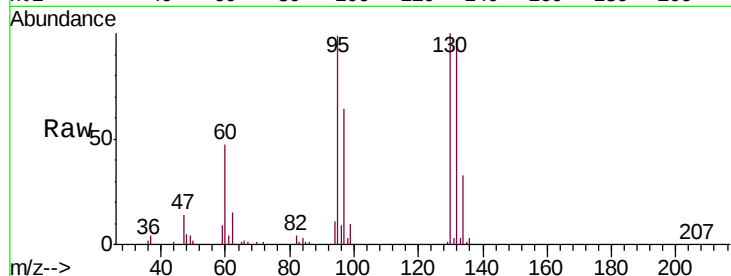
Ion Ratio Lower Upper

95 100

97 65.1 45.9 85.3

132 98.1 72.2 134.2

130 101.0 74.9 139.1

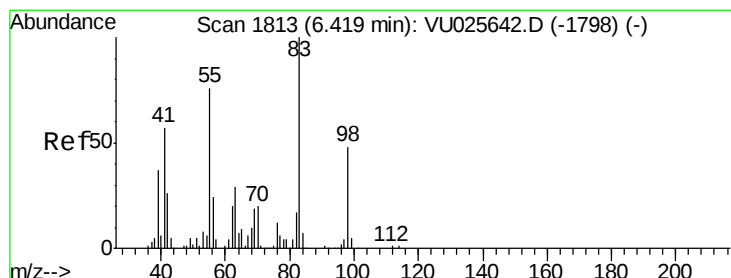
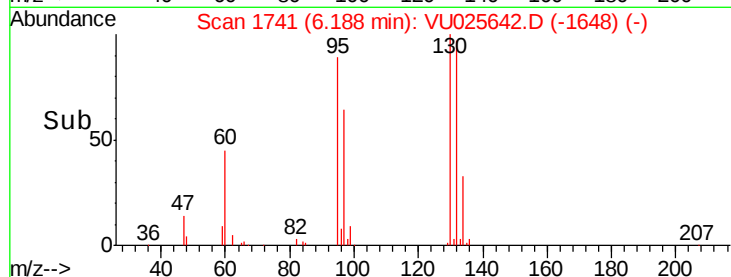
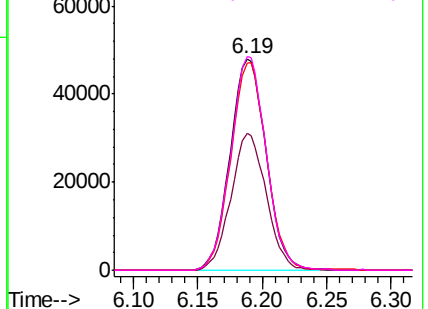


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 43.408 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

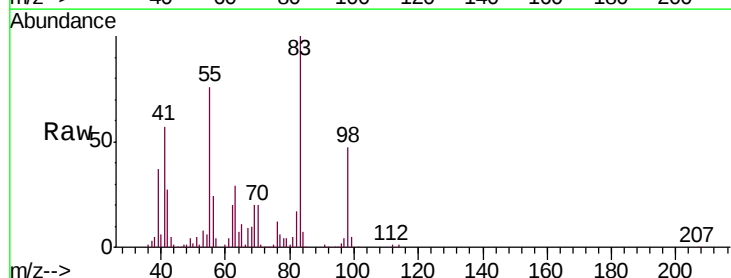
Tgt Ion: 83 Resp: 148163

Ion Ratio Lower Upper

83 100

55 77.1 61.1 91.7

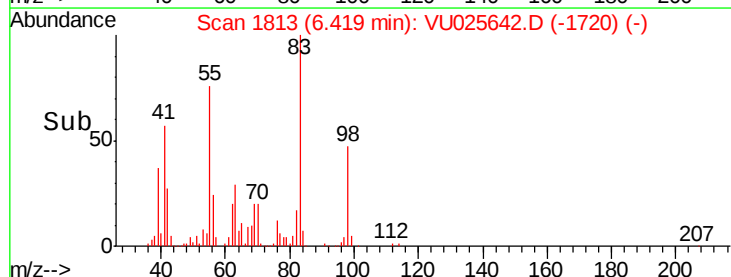
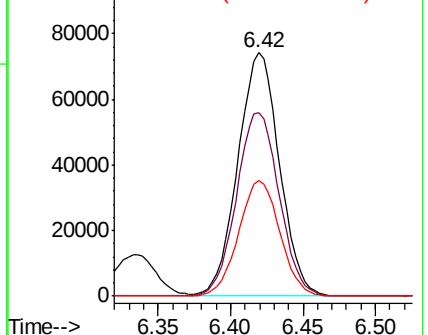
98 47.0 38.6 57.8

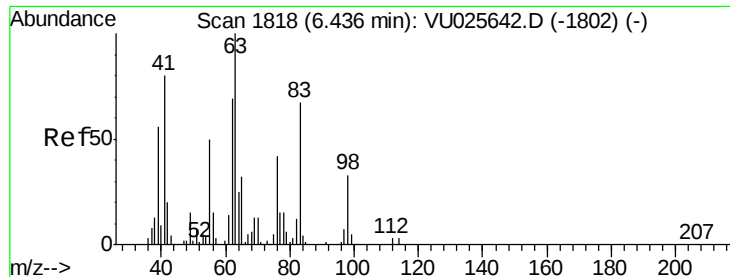


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

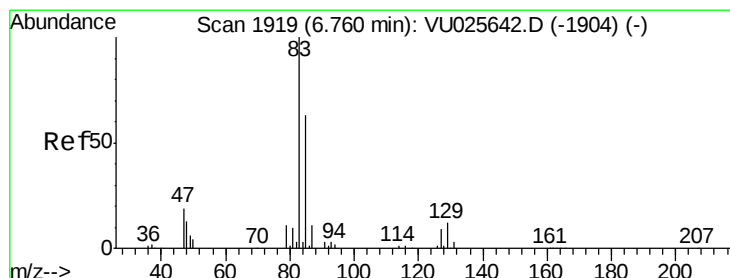
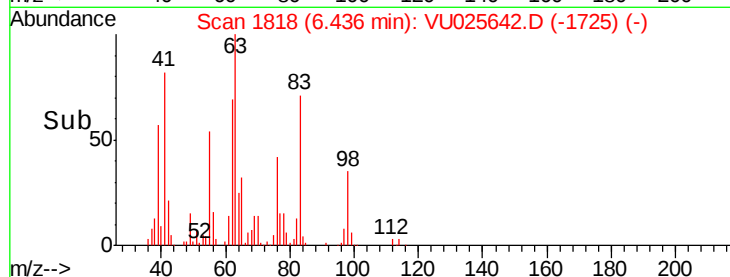
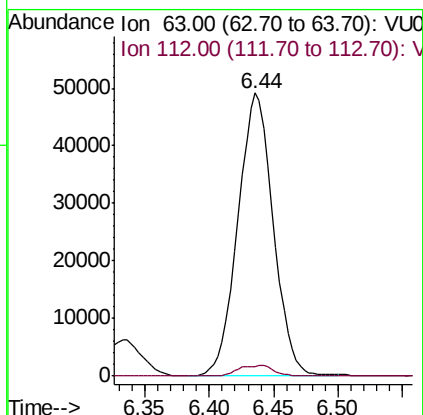
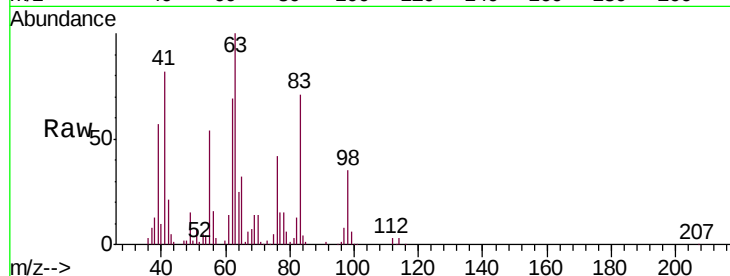




#37
 1,2-Dichloropropane
 Concen: 43.059 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

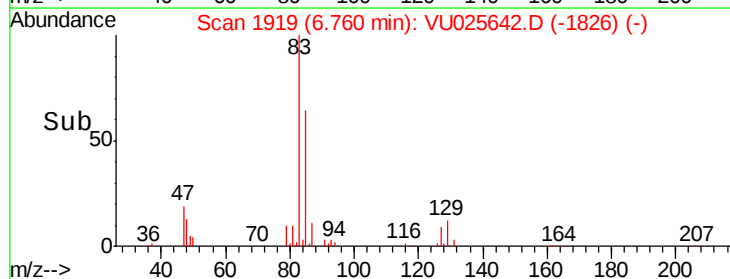
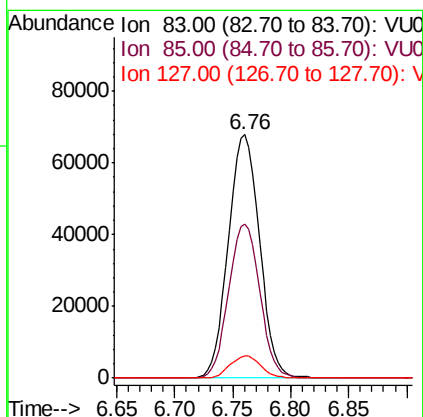
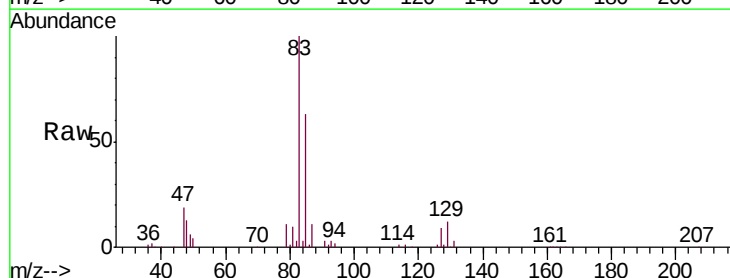
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05041

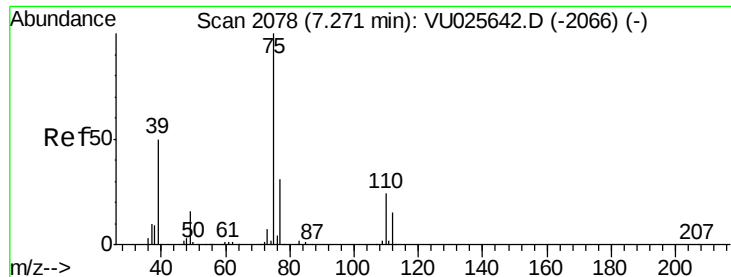
Tot Ion: 63 Resp: 93876
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.3 4.9



#38
 Bromodichloromethane
 Concen: 44.180 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Tgt Ion: 83 Resp: 126995
 Ion Ratio Lower Upper
 83 100
 85 63.4 46.7 86.7
 127 9.2 8.0 12.0

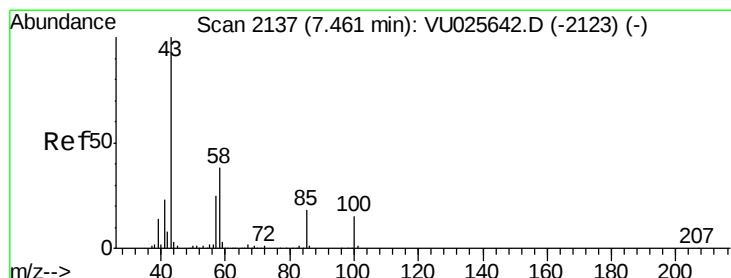
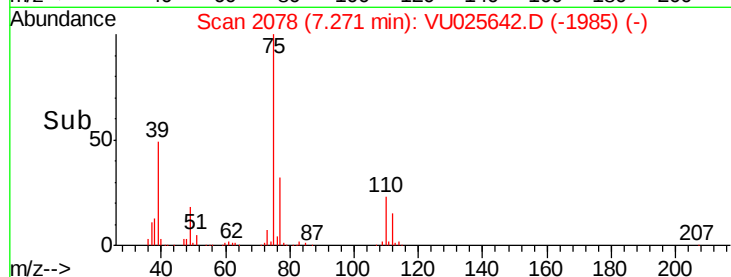
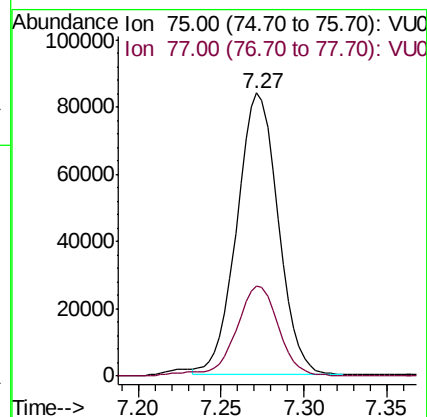
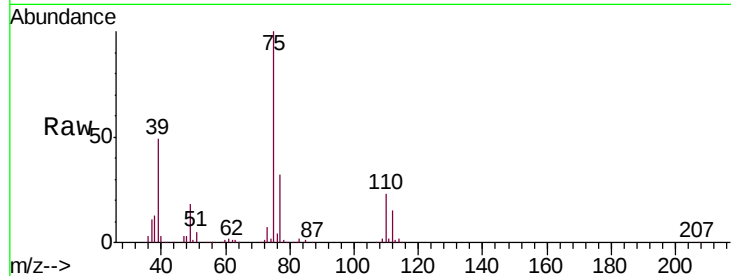




#39
 cis-1,3-Dichloropropene
 Concen: 43.022 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

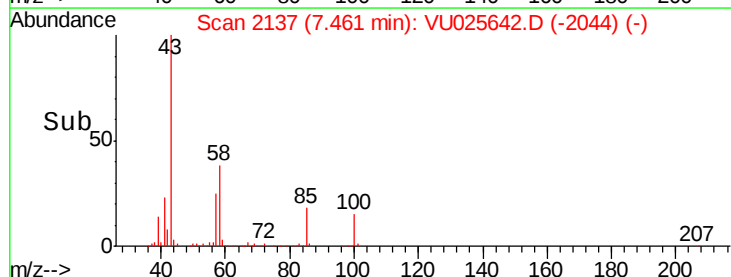
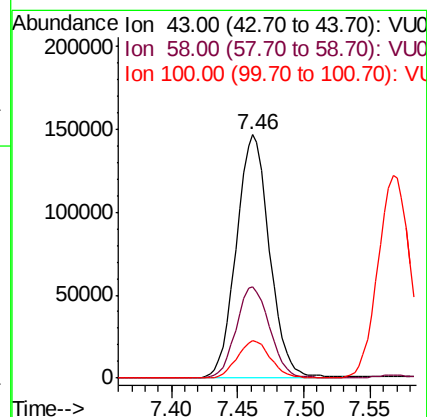
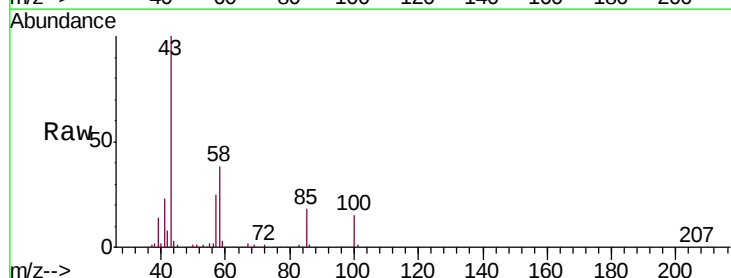
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

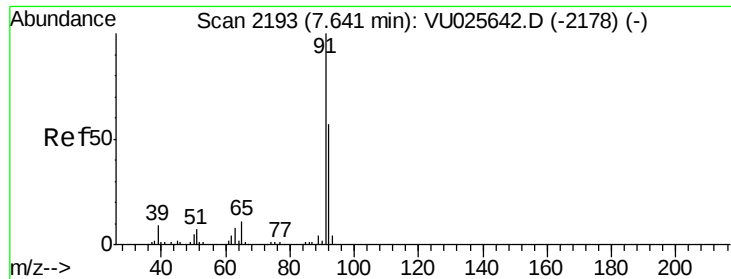
Tot Ion: 75 Resp: 145562
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 89.229 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Tgt Ion: 43 Resp: 255467
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.8 46.2
 100 15.4 12.1 18.1





#42

Toluene

Concen: 43.467 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

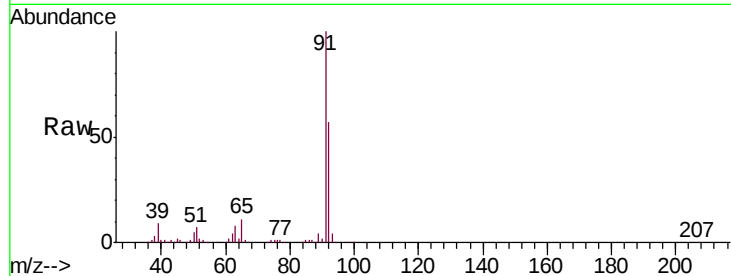
VSTD05041

Tot Ion: 91 Resp: 373983

Ion Ratio Lower Upper

91 100

92 57.5 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU025642.D (-2178) (-)

Ion 92.00 (91.70 to 92.70): VU025642.D (-2178) (-)

7.64

250000

200000

150000

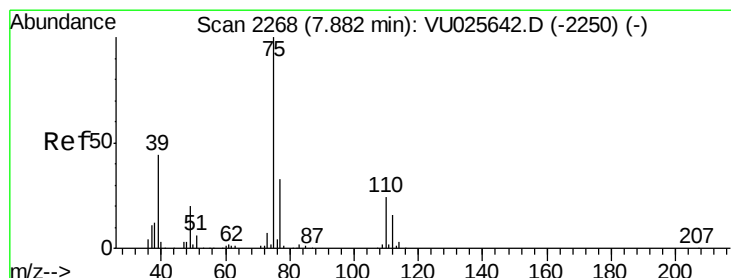
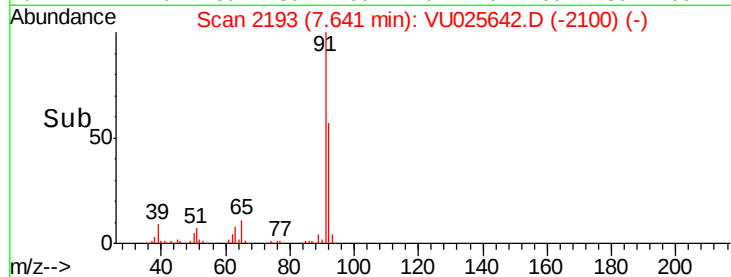
100000

50000

0

Time-->

7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 44.531 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025642.D

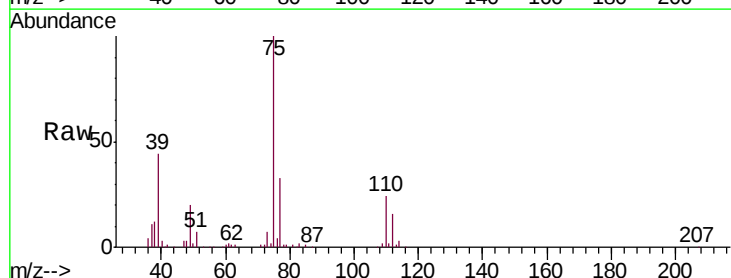
Acq: 26 Jul 2018 09:40

Tgt Ion: 75 Resp: 142056

Ion Ratio Lower Upper

75 100

77 32.7 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU025642.D (-2250) (-)

Ion 77.00 (76.70 to 77.70): VU025642.D (-2250) (-)

7.88

80000

60000

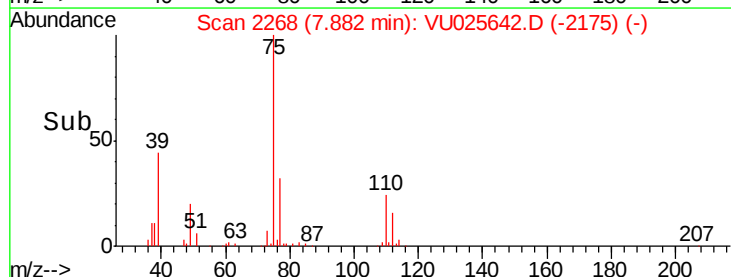
40000

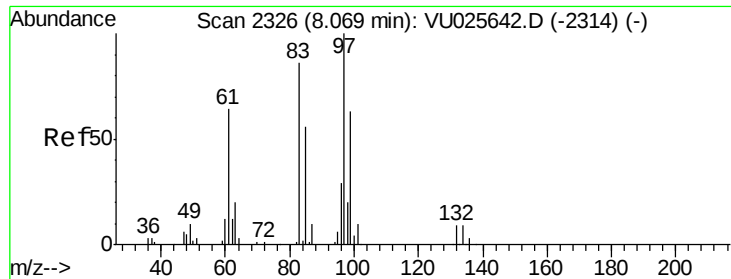
20000

0

Time-->

7.80 7.90 8.00

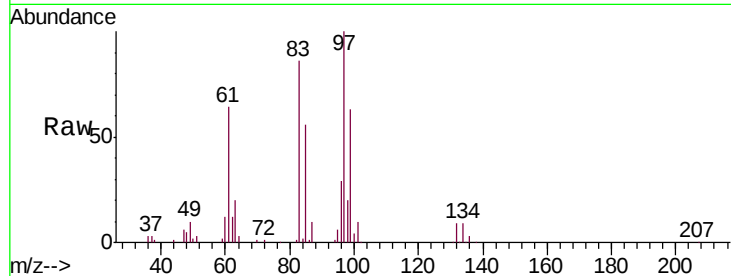




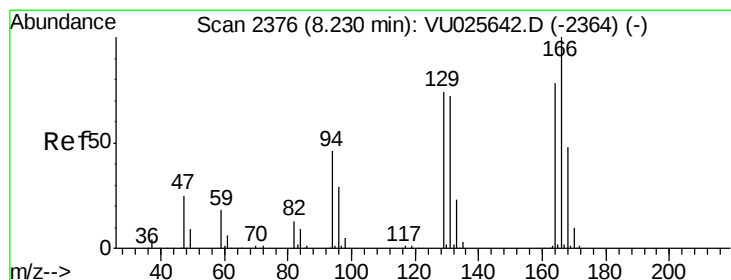
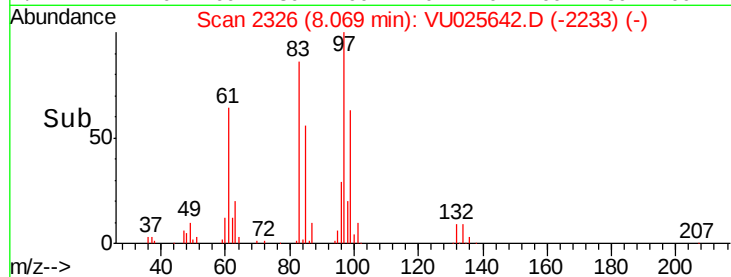
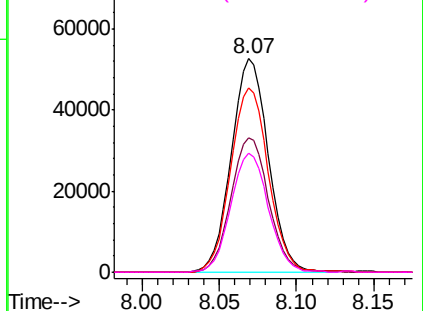
#45
 1,1,2-Trichloroethane
 Concen: 42.083 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tot Ion:	97	Resp:	88005
Ion	Ratio	Lower	Upper
97	100		
99	63.0	44.3	82.3
83	86.1	59.8	111.1
85	55.7	37.9	70.5

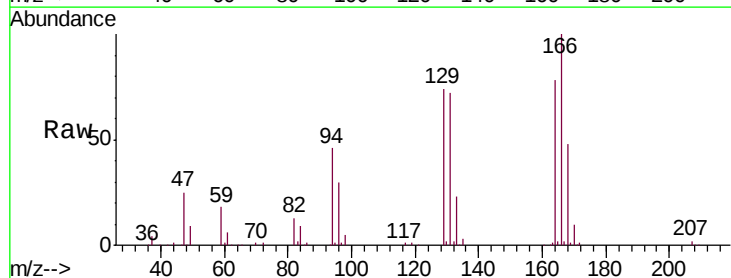


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

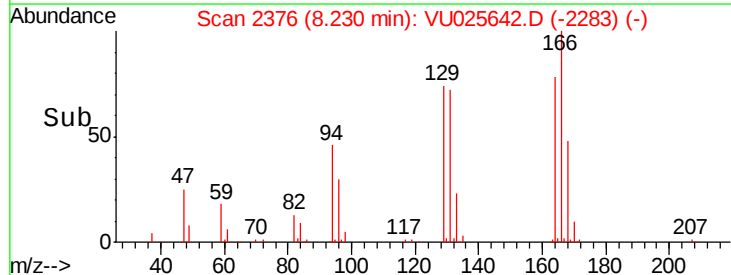
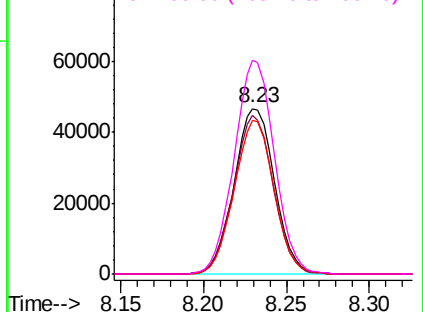


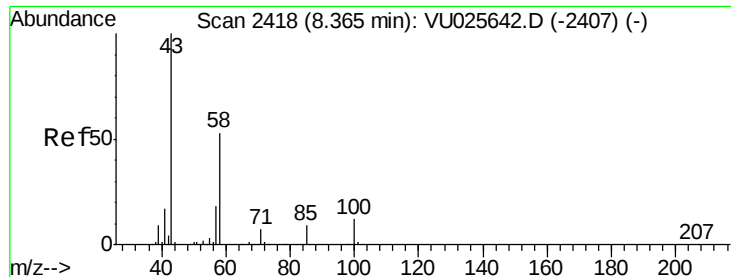
#46
 Tetrachloroethene
 Concen: 43.335 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Tgt Ion:	164	Resp:	79528
Ion	Ratio	Lower	Upper
164	100		
129	95.4	65.1	120.9
131	92.7	62.8	116.6
166	128.9	89.7	166.7



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

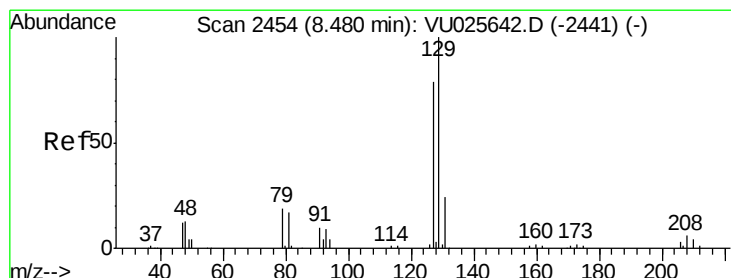
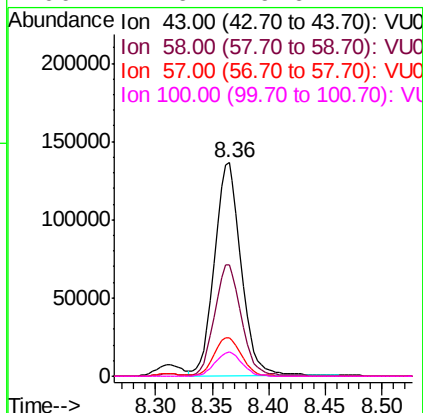
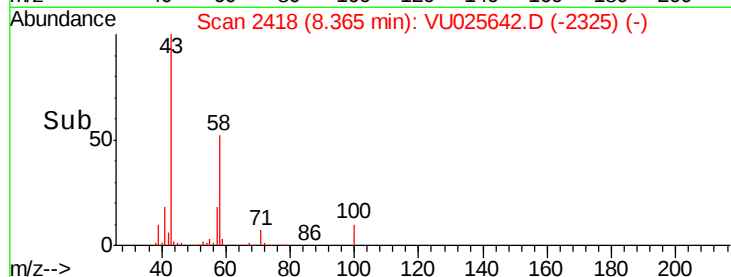
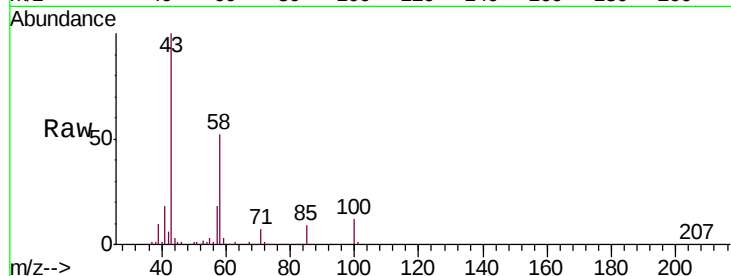




#48
2-Hexanone
Concen: 92.209 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

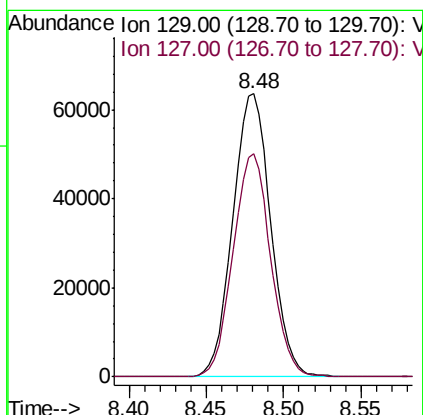
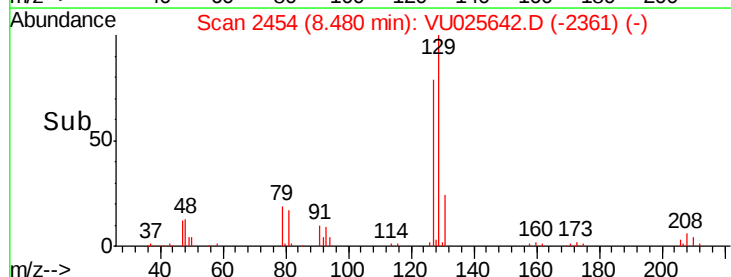
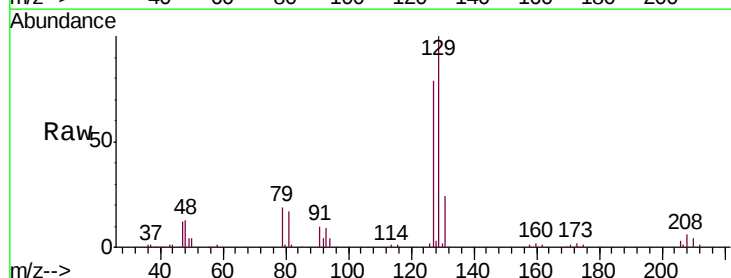
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

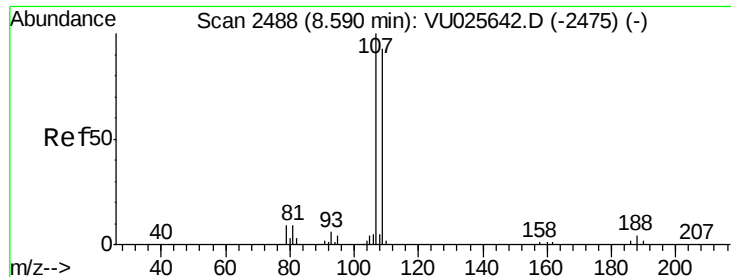
Tot Ion: 43 Resp: 223075
Ion Ratio Lower Upper
43 100
58 53.1 42.9 64.3
57 18.4 15.4 23.2
100 11.6 9.6 14.4



#49
Dibromochloromethane
Concen: 44.226 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

Tgt Ion: 129 Resp: 108490
Ion Ratio Lower Upper
129 100
127 79.0 53.8 100.0





#50

1,2-Dibromoethane

Concen: 43.582 ug/L

RT: 8.59 min Scan# 2488

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

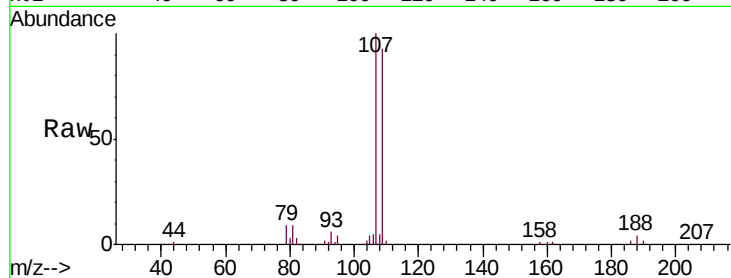
Tot Ion:107 Resp: 98189

Ion Ratio Lower Upper

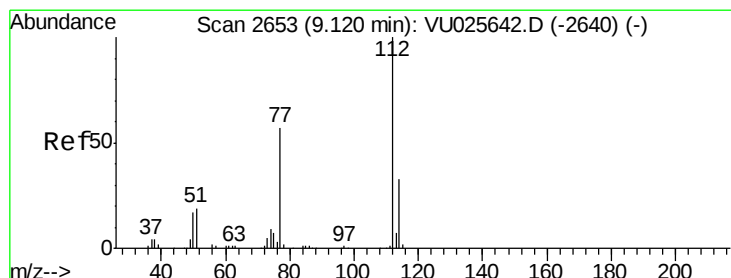
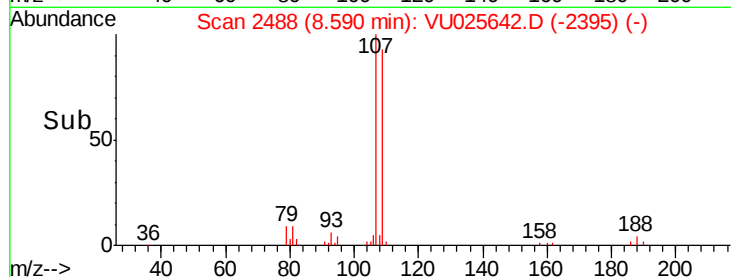
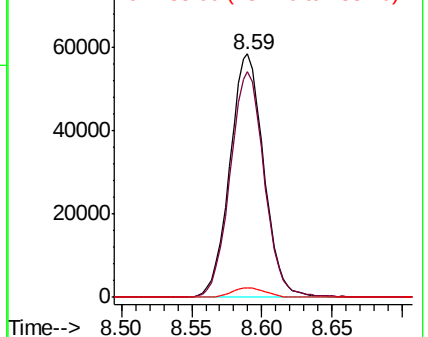
107 100

109 92.6 66.6 123.8

188 3.7 3.2 4.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 43.985 ug/L

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

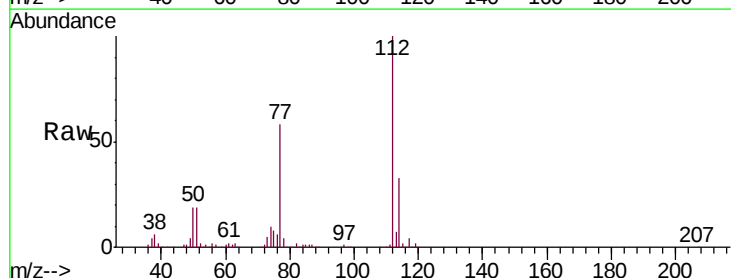
Tgt Ion:112 Resp: 254775

Ion Ratio Lower Upper

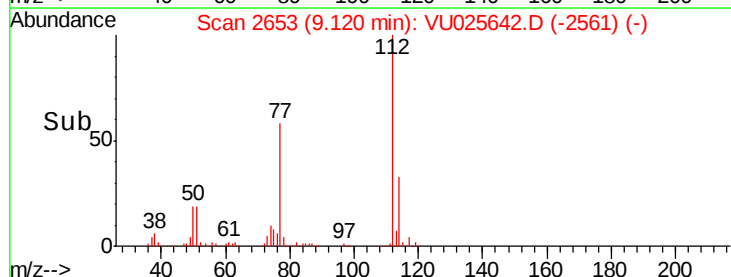
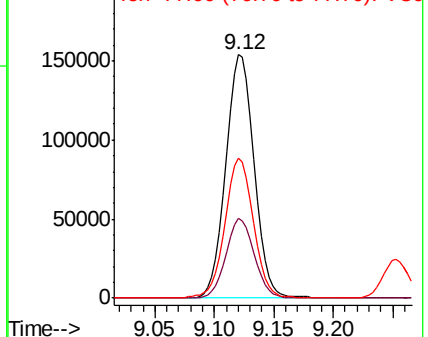
112 100

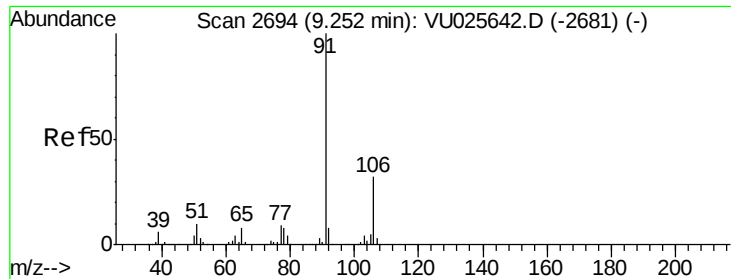
114 32.5 22.5 41.9

77 57.7 45.8 68.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

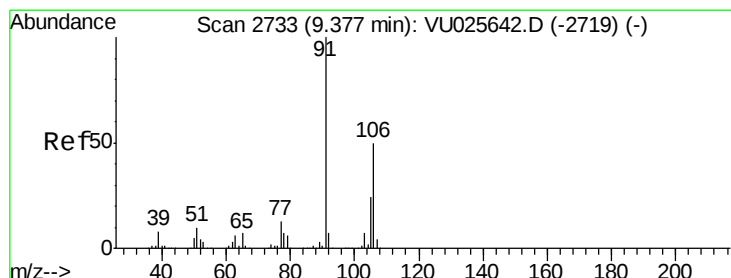
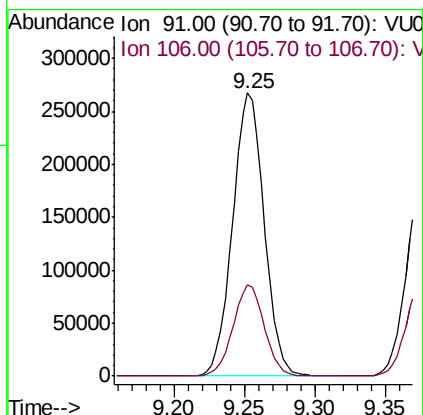
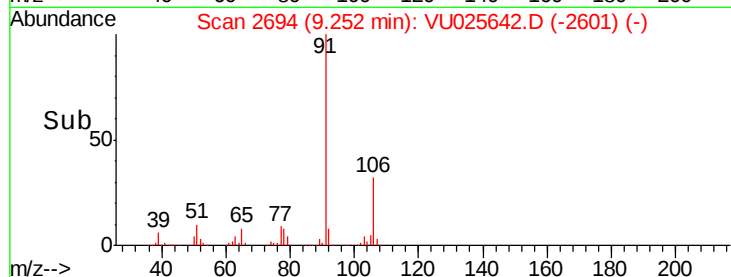
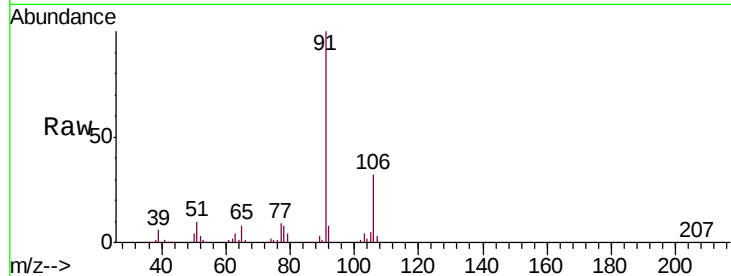




#52
Ethylbenzene
Concen: 44.205 ug/L
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

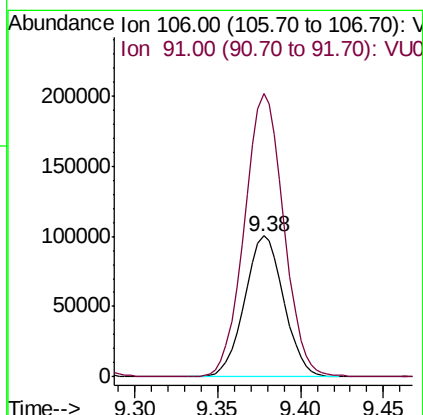
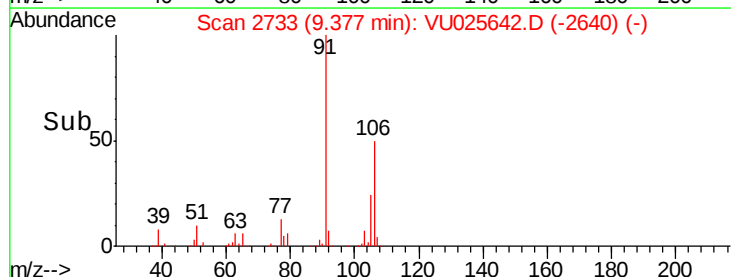
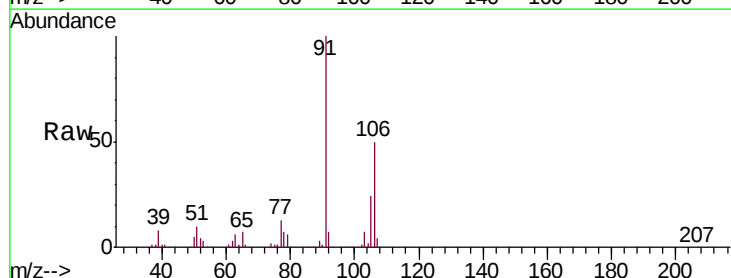
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

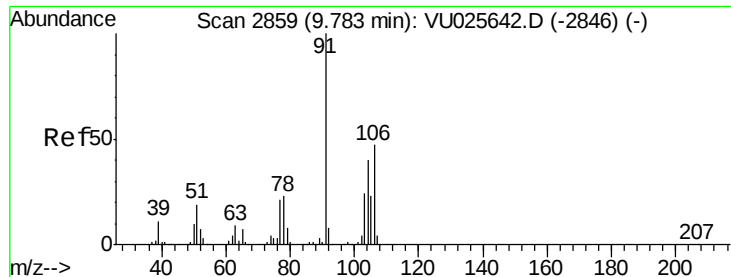
Tot Ion: 91 Resp: 419778
Ion Ratio Lower Upper
91 100
106 32.1 22.3 41.5



#53
m,p-Xylene
Concen: 45.219 ug/L
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU025642.D
Acq: 26 Jul 2018 09:40

Tgt Ion: 106 Resp: 164481
Ion Ratio Lower Upper
106 100
91 200.6 141.7 263.3





#54

o-xylene

Concen: 43.104 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

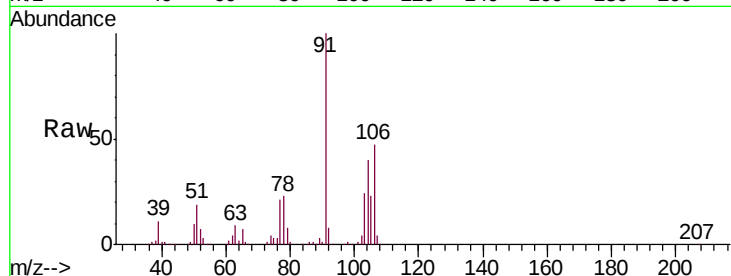
VSTD05041

Tot Ion:106 Resp: 159092

Ion Ratio Lower Upper

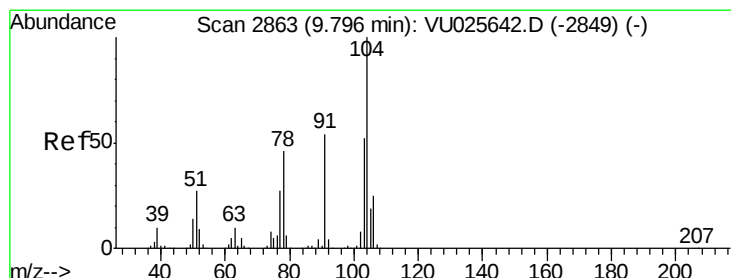
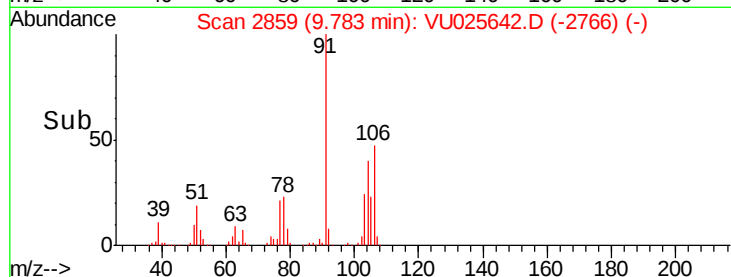
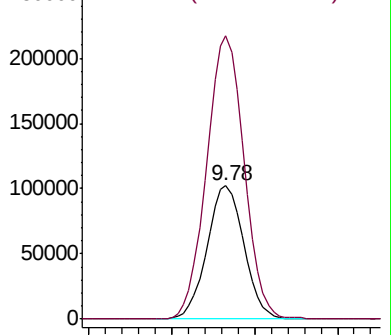
106 100

91 212.1 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 46.112 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025642.D

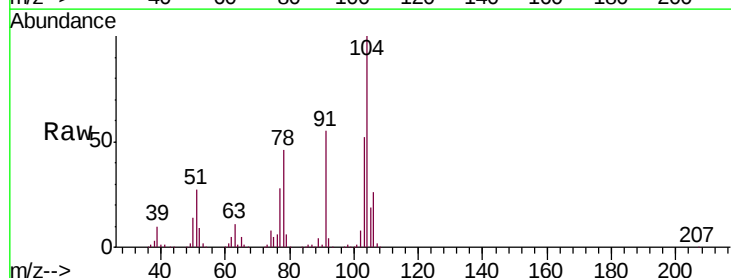
Acq: 26 Jul 2018 09:40

Tgt Ion:104 Resp: 277192

Ion Ratio Lower Upper

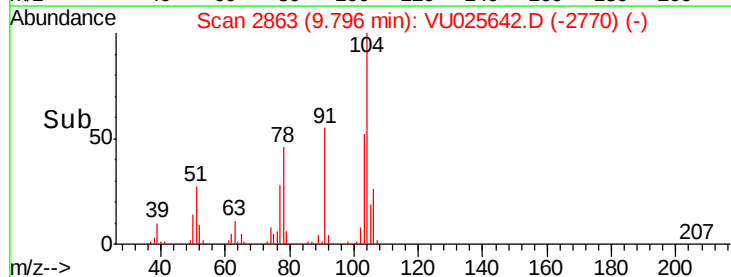
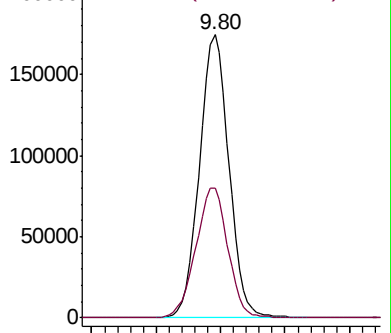
104 100

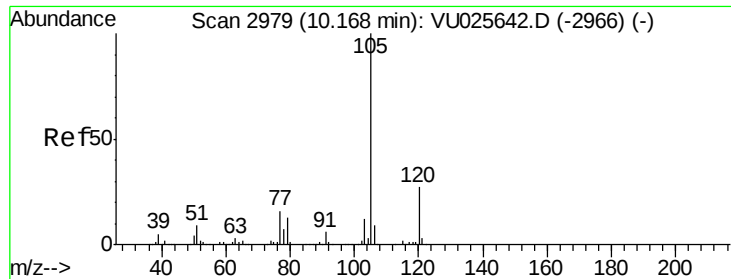
78 45.8 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 44.652 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

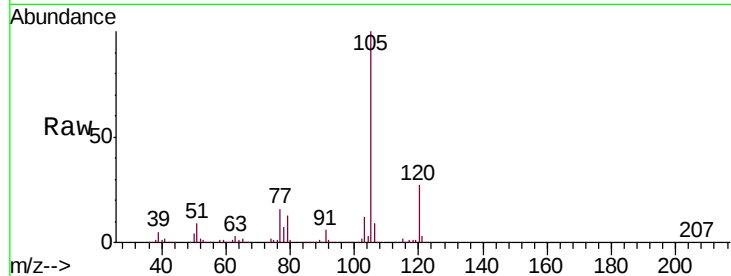
Tot Ion:105 Resp: 425313

Ion Ratio Lower Upper

105 100

120 27.2 21.7 32.5

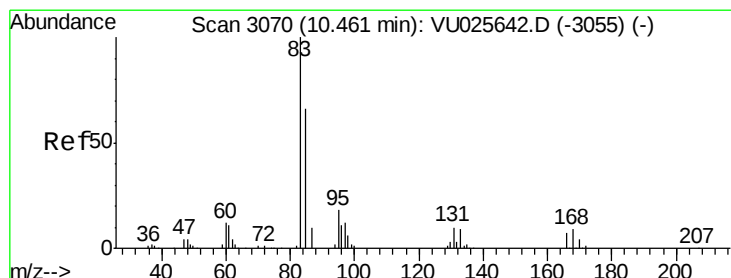
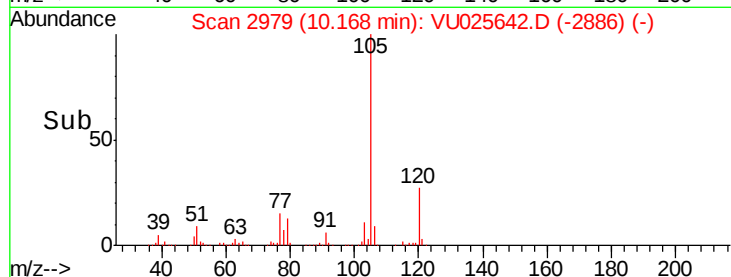
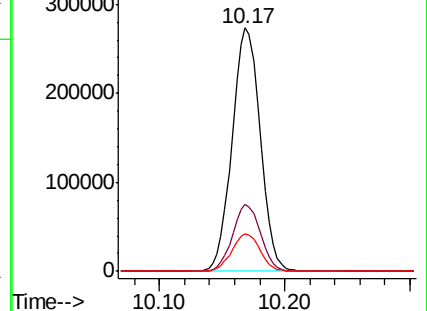
77 15.6 12.4 18.6



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: 43.321 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

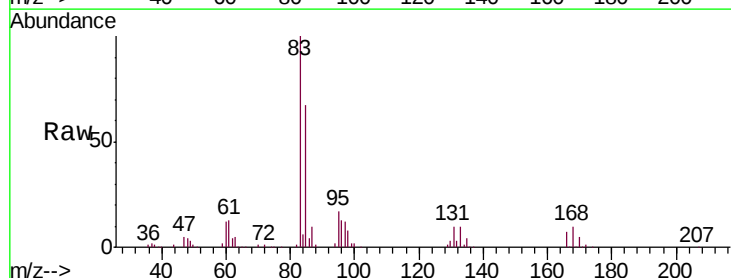
Tgt Ion: 83 Resp: 146131

Ion Ratio Lower Upper

83 100

85 66.6 45.1 83.7

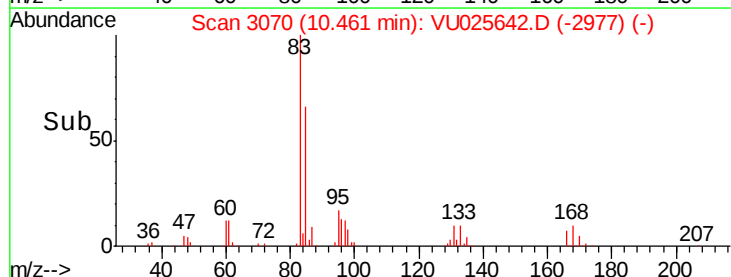
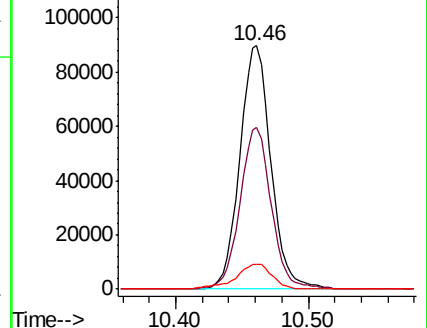
131 10.4 8.7 13.1

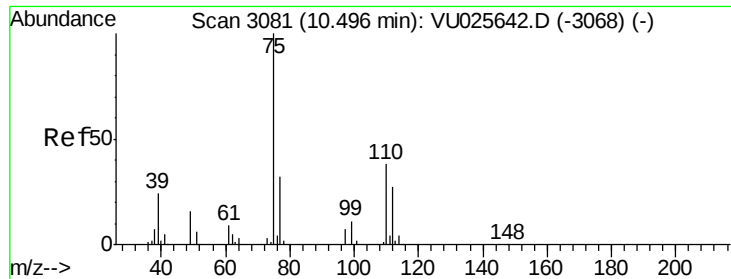


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

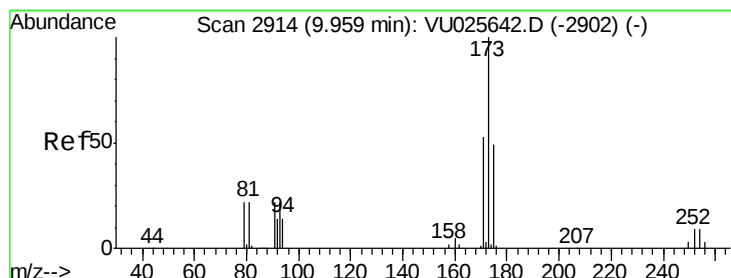
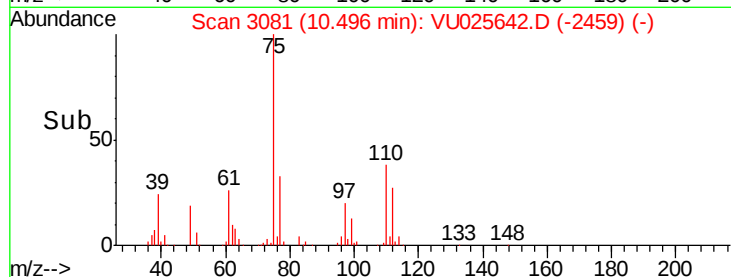
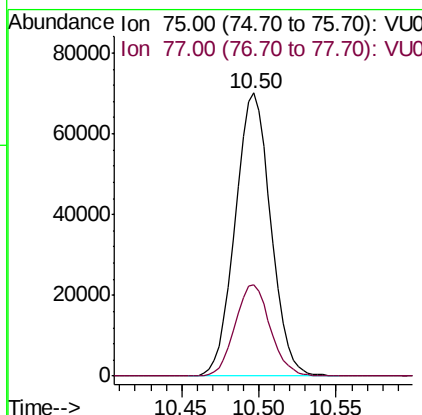
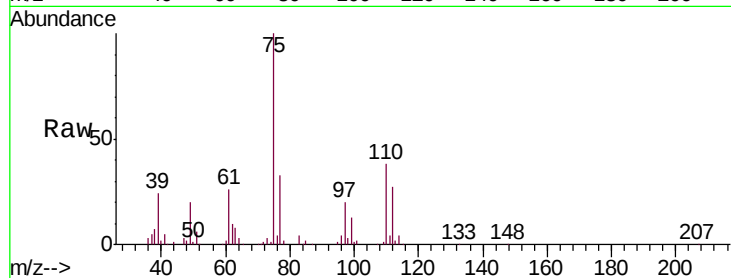




#59
 1,2,3-Trichloropropane
 Concen: 43.730 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

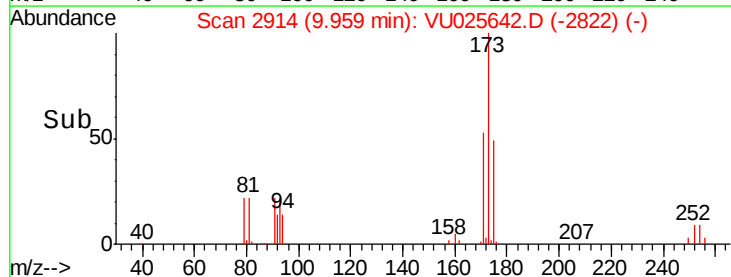
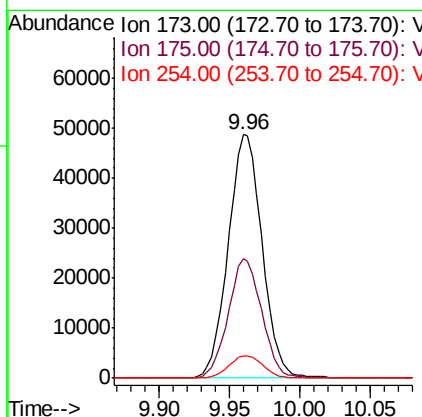
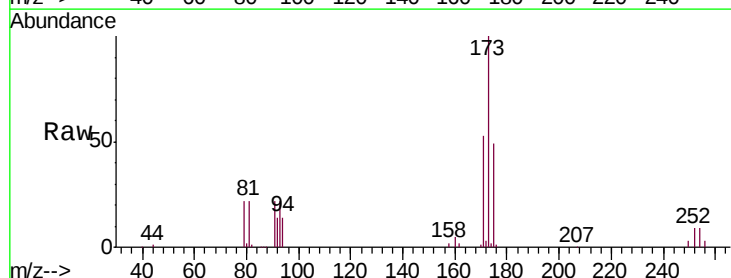
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

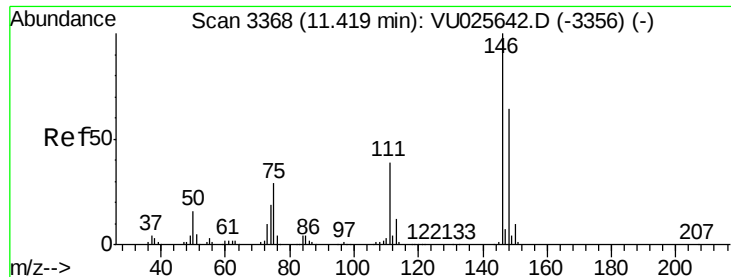
Tot Ion: 75 Resp: 111984
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.8 38.8



#61
 Bromoform
 Concen: 41.559 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Tgt Ion: 173 Resp: 82016
 Ion Ratio Lower Upper
 173 100
 175 48.3 39.8 59.8
 254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 43.693 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

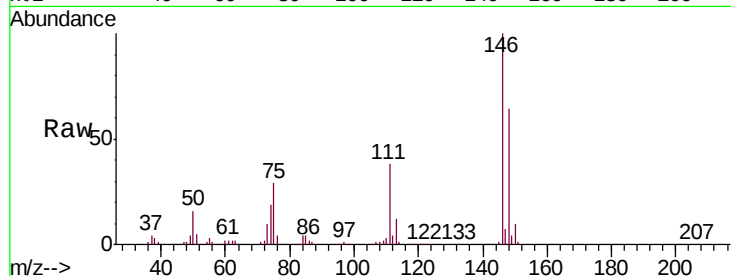
Tot Ion:146 Resp: 210868

Ion Ratio Lower Upper

146 100

111 38.5 27.7 51.5

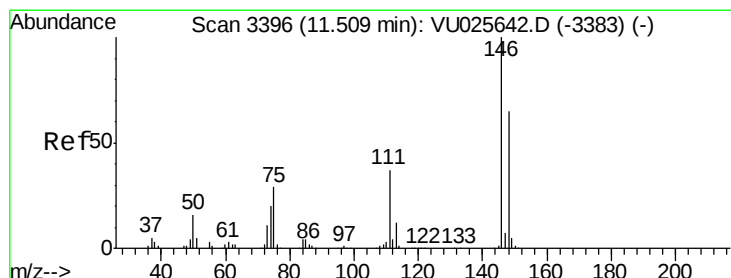
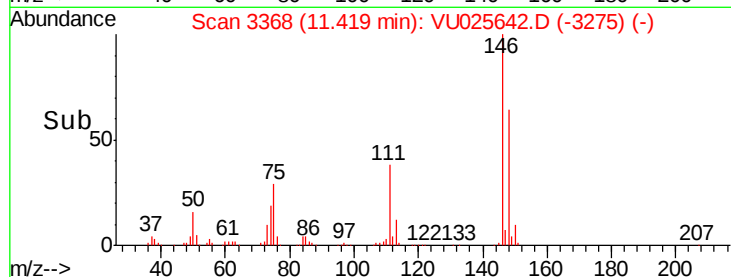
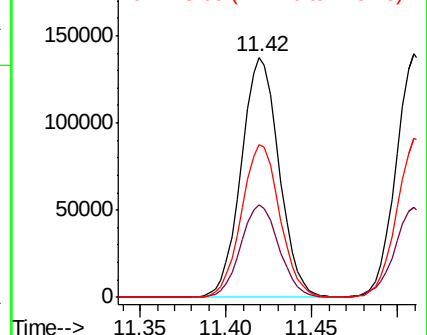
148 63.8 45.5 84.5



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: 43.397 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

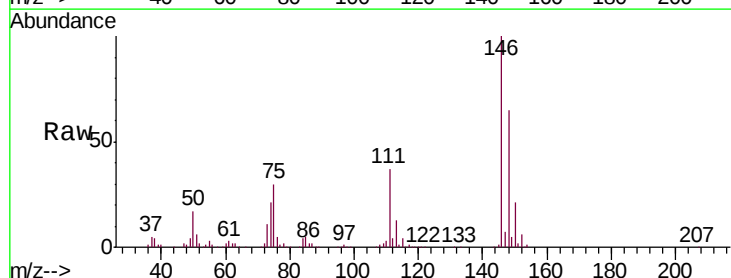
Tgt Ion:146 Resp: 213791

Ion Ratio Lower Upper

146 100

111 36.9 26.9 49.9

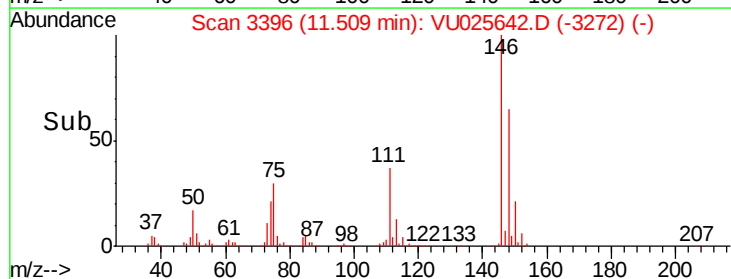
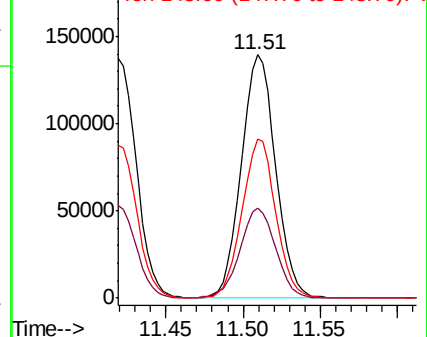
148 65.1 44.6 82.8

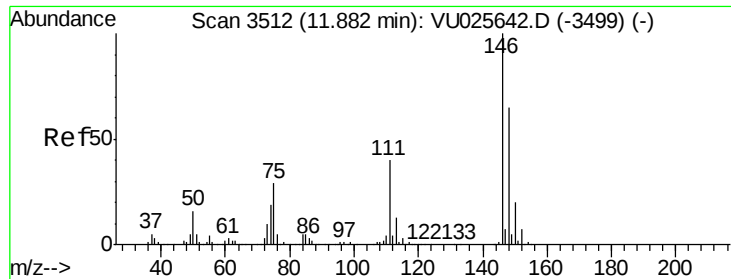


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

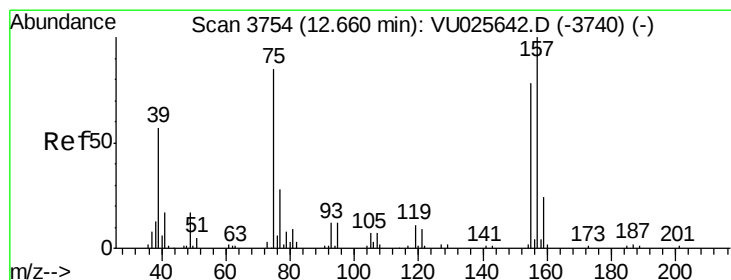
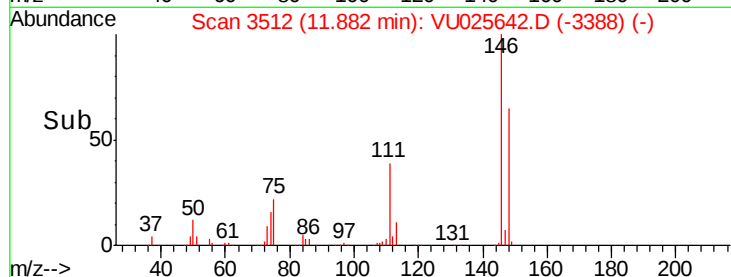
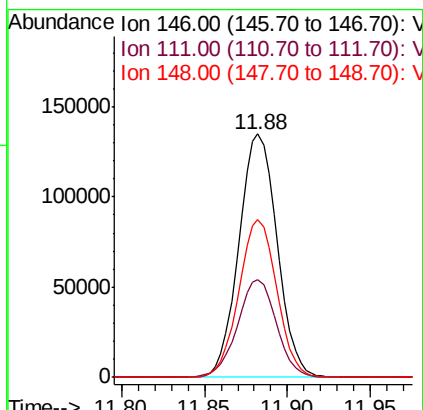
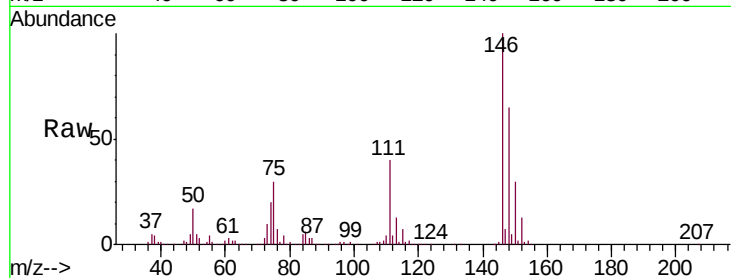




#65
 1,2-Dichlorobenzene
 Concen: 42.854 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

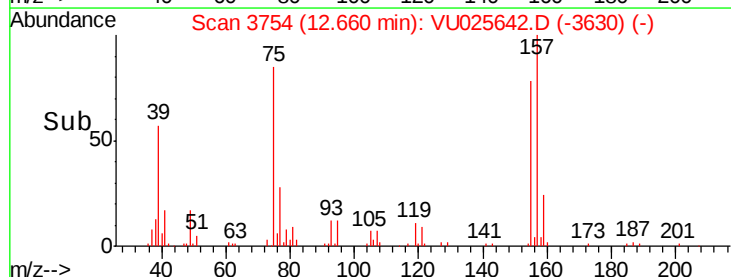
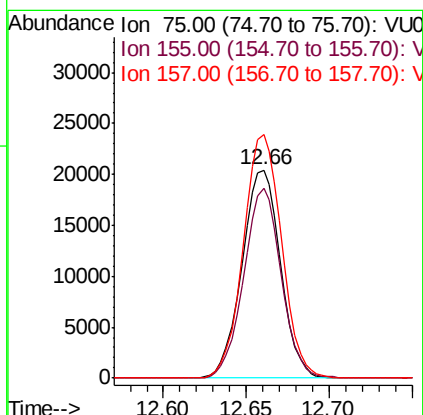
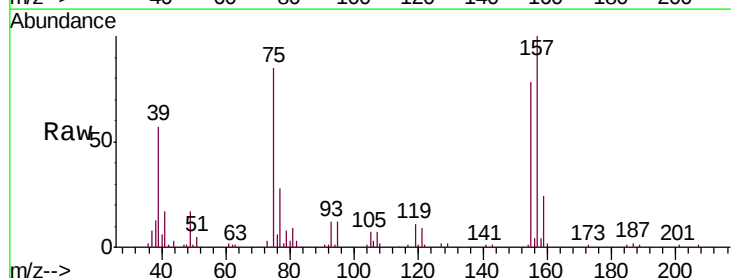
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

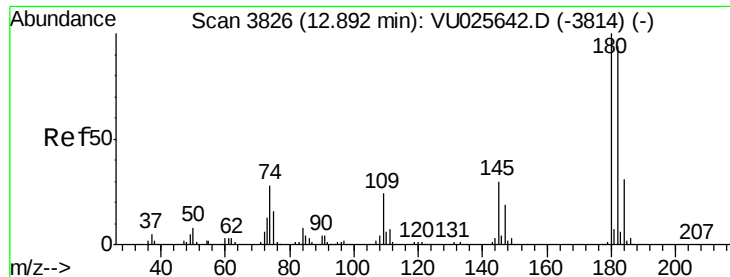
Tot Ion:146 Resp: 216670
 Ion Ratio Lower Upper
 146 100
 111 40.4 32.4 48.6
 148 64.9 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 41.440 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Tgt Ion: 75 Resp: 32952
 Ion Ratio Lower Upper
 75 100
 155 91.0 66.3 99.5
 157 117.0 91.5 137.3

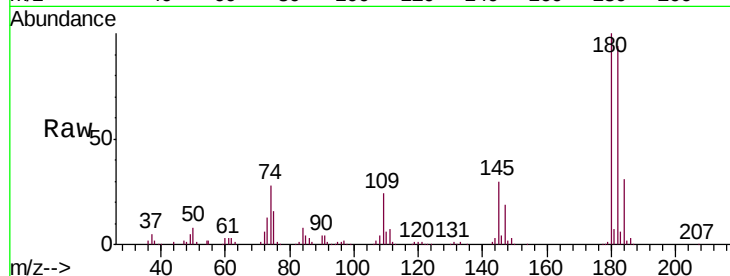




#67
 1,3,5-Trichlorobenzene
 Concen: 45.832 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.3	115.9
184	31.0	24.6	36.8
145	29.4	23.0	34.6



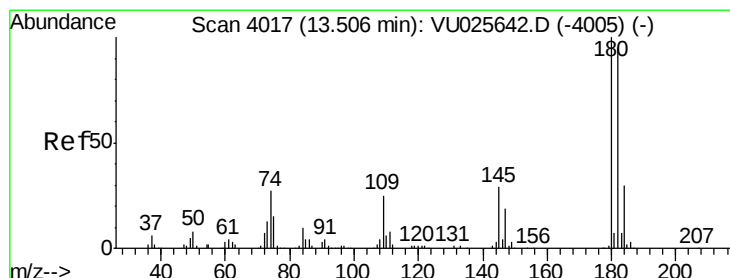
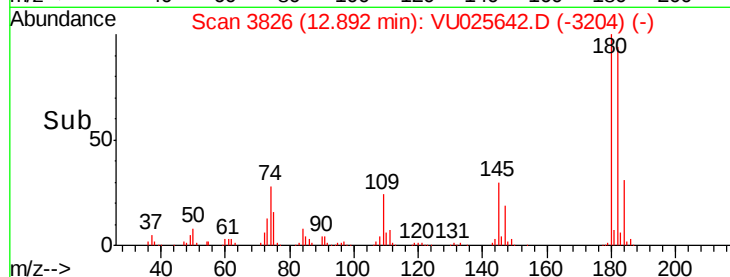
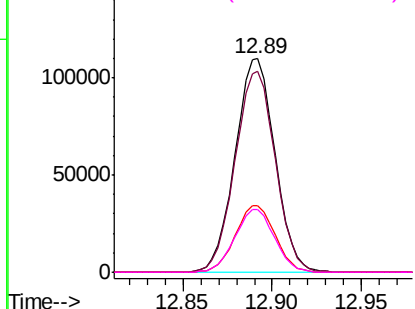
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

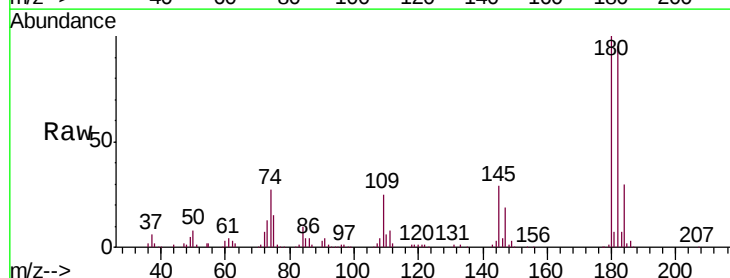
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.567 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025642.D
 Acq: 26 Jul 2018 09:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	78.1	117.1
145	29.1	23.4	35.2

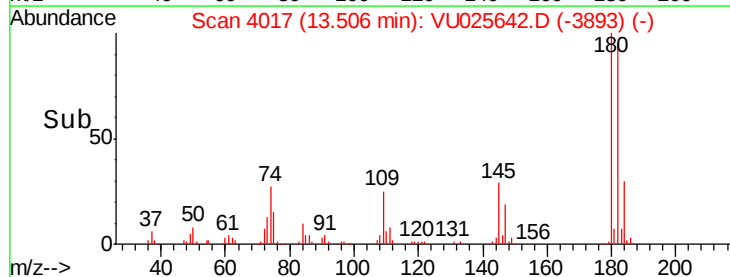
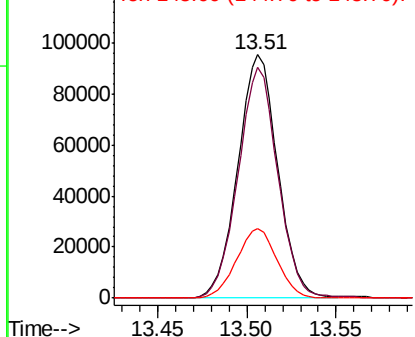


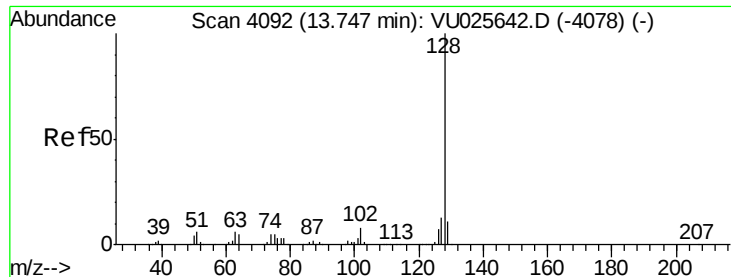
Abundance

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: 44.462 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

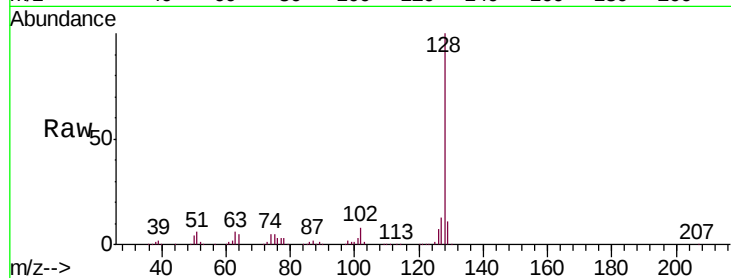
Tot Ion:128 Resp: 418626

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

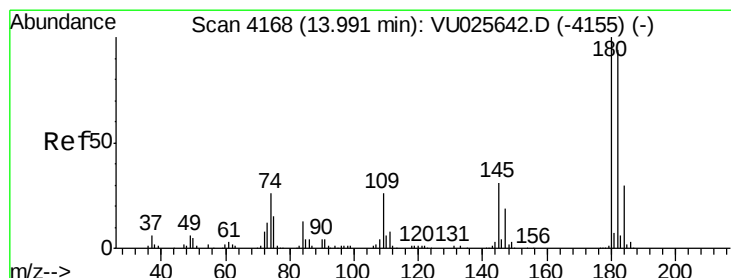
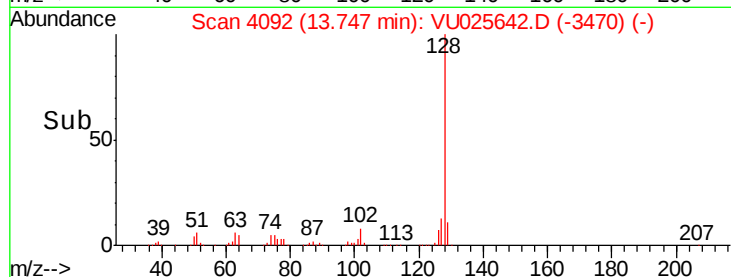
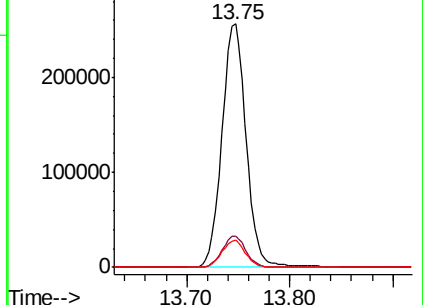
129 10.8 8.4 12.6



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: 45.566 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. -0.00 min

Lab File: VU025642.D

Acq: 26 Jul 2018 09:40

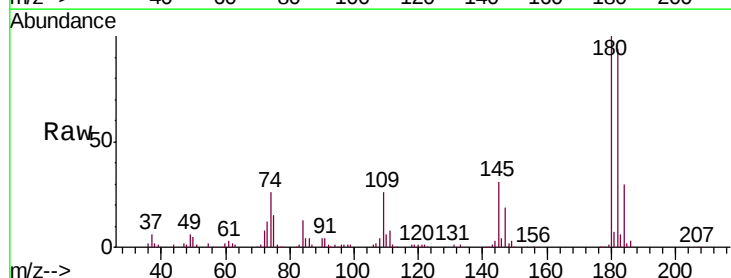
Tgt Ion:180 Resp: 150809

Ion Ratio Lower Upper

180 100

182 95.6 76.6 114.8

145 31.6 25.4 38.2



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

