

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
 Data File : VU025416.D
 Acq On : 16 Jul 2018 10:49
 Operator : MD/SY
 Sample : VSTD05053
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

Quant Time: Jul 17 02:08:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071618WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 17 02:04:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	368775	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	344489	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	175184	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	93658	43.78	ug/L	0.00
7) Chloroethane-d5	1.68	69	78756	44.34	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	207191	44.25	ug/L	0.00
21) 2-Butanone-d5	4.17	46	196451	105.33	ug/L	0.00
24) Chloroform-d	4.65	84	230132	49.01	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	151303	45.99	ug/L	0.00
32) Benzene-d6	5.35	84	428427	46.03	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	138626	46.70	ug/L	0.00
41) Toluene-d8	7.57	98	414705	45.66	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	69094	46.43	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	147146	105.52	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	209612	49.22	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	180223	47.72	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	152566	46.235	ug/L 100
3) Chloromethane	1.33	50	154959	54.465	ug/L 100
5) Vinyl chloride	1.40	62	131312	46.555	ug/L 100
6) Bromomethane	1.62	94	36232	26.485	ug/L 100
8) Chloroethane	1.70	64	79183	46.548	ug/L 100
9) Trichlorofluoromethane	1.89	101	185041	45.408	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	113327	46.427	ug/L 100
12) 1,1-Dichloroethene	2.28	96	101097	45.573	ug/L 100
13) Acetone	2.32	43	200210	104.359	ug/L 100
14) Carbon disulfide	2.48	76	318348	47.187	ug/L 100
15) Methyl Acetate	2.62	43	148914	50.815	ug/L 100
16) Methylene chloride	2.70	84	130586	49.236	ug/L 100
17) trans-1,2-Dichloroethene	2.99	96	113546	46.866	ug/L 100
18) Methyl tert-butyl Ether	3.00	73	402403	47.711	ug/L 100
19) 1,1-Dichloroethane	3.45	63	223109	48.279	ug/L 100
20) cis-1,2-Dichloroethene	4.23	96	133513	47.666	ug/L 100
22) 2-Butanone	4.26	43	243346	106.703	ug/L 100
23) Bromochloromethane	4.55	128	64781	45.554	ug/L 100
25) Chloroform	4.68	83	237538	48.146	ug/L 100
27) 1,2-Dichloroethane	5.41	62	190725	46.519	ug/L 100
29) Cyclohexane	5.00	56	195830	44.911	ug/L 100
30) 1,1,1-Trichloroethane	4.92	97	214460	47.182	ug/L 100
31) Carbon tetrachloride	5.14	117	189740	47.813	ug/L 100
33) Benzene	5.39	78	484143	46.911	ug/L 100
34) Trichloroethene	6.19	95	126460	46.234	ug/L 100
35) Methylcyclohexane	6.42	83	207790	45.685	ug/L 100
37) 1,2-Dichloropropane	6.44	63	132416	47.878	ug/L 100
38) Bromodichloromethane	6.76	83	170927	46.885	ug/L 100
39) cis-1,3-Dichloropropene	7.27	75	205955	47.351	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	412980	102.051	ug/L 100

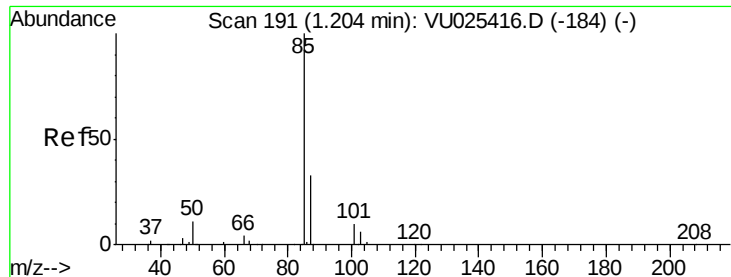
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071618\
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 Quant Title : VOC Analysis
 QLast Update : Tue Jul 17 02:04:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	524481	46.860	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	186671	46.311	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	126293	47.942	ug/L	100
46) Tetrachloroethene	8.23	164	106687	46.150	ug/L	100
48) 2-Hexanone	8.36	43	349676	107.327	ug/L	100
49) Dibromochloromethane	8.48	129	139273	45.654	ug/L	100
50) 1,2-Dibromoethane	8.59	107	141107	48.184	ug/L	100
51) Chlorobenzene	9.12	112	353206	47.203	ug/L	100
52) Ethylbenzene	9.25	91	594739	47.317	ug/L	100
53) m,p-Xylene	9.38	106	230400	47.349	ug/L	100
54) o-xylene	9.78	106	230138	47.188	ug/L	100
55) Styrene	9.80	104	379114	47.440	ug/L	100
56) Isopropylbenzene	10.17	105	602714	47.122	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	224125	50.303	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	183884	50.668	ug/L	100
61) Bromoform	9.96	173	98067	44.039	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	279426	48.059	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	274699	47.061	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	294616	48.123	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	52043	50.699	ug/L	100
67) 1,3,5-Trichlorobenzene	12.89	180	210603	48.779	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	180047	49.749	ug/L	100
69) Naphthalene	13.75	128	640797	52.432	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	195436	49.977	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 46.235 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

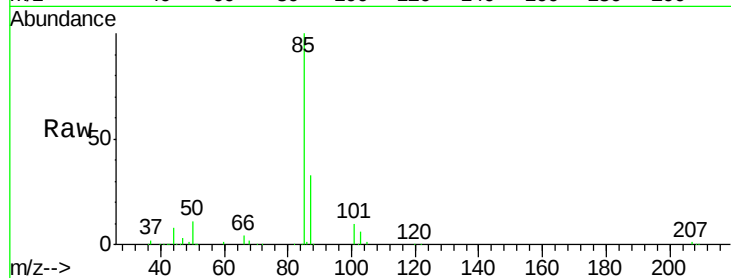
VSTD05053

Tgt Ion: 85 Resp: 152566

Ion Ratio Lower Upper

85 100

87 32.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.20

150000

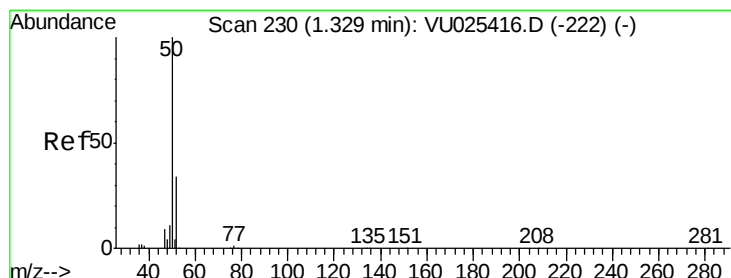
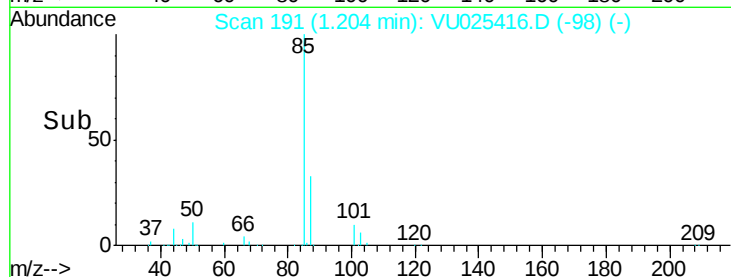
100000

50000

0

Time-->

1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 54.465 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025416.D

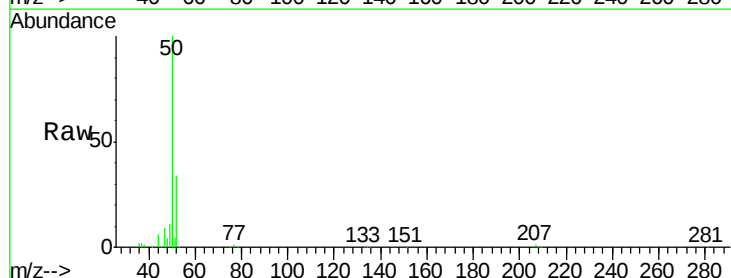
Acq: 16 Jul 2018 10:49

Tgt Ion: 50 Resp: 154959

Ion Ratio Lower Upper

50 100

52 33.6 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.33

150000

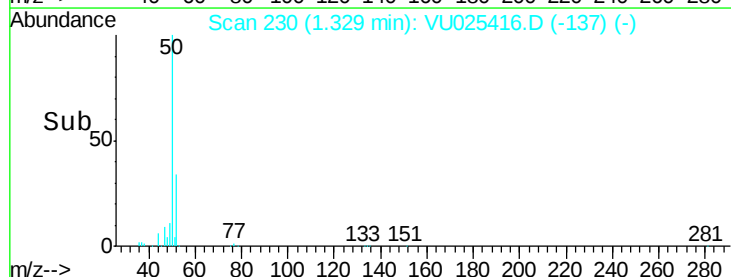
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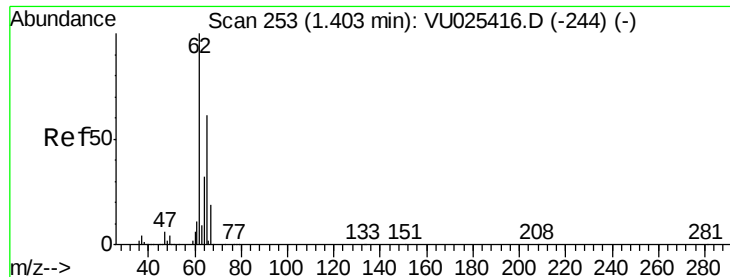
50000

0

Time-->

1.30 1.35 1.40





#5

Vinyl chloride

Concen: 46.555 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

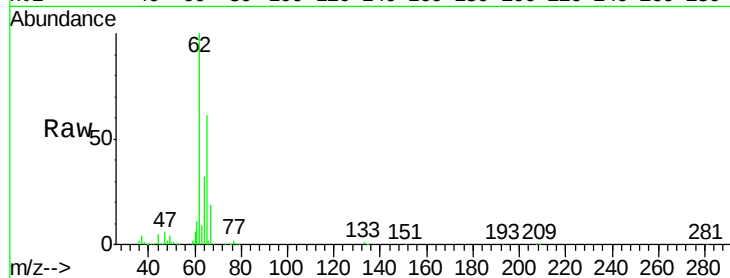
VSTD05053

Tgt Ion: 62 Resp: 131312

Ion Ratio Lower Upper

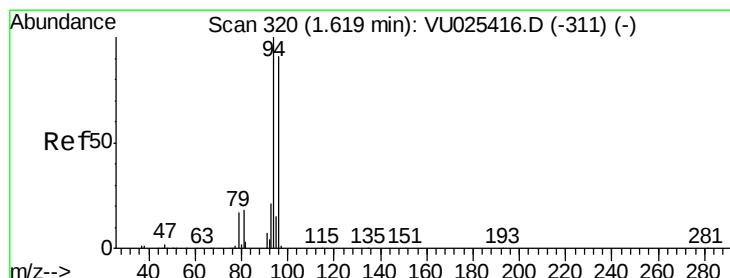
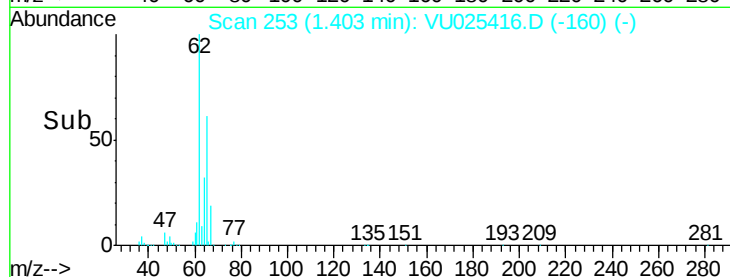
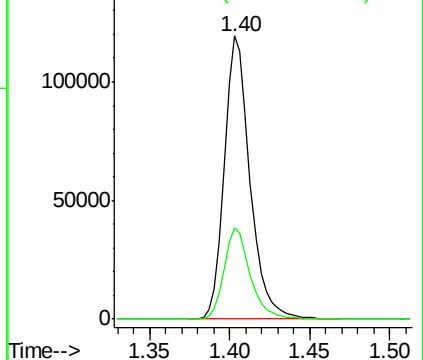
62 100

64 32.3 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 26.485 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU025416.D

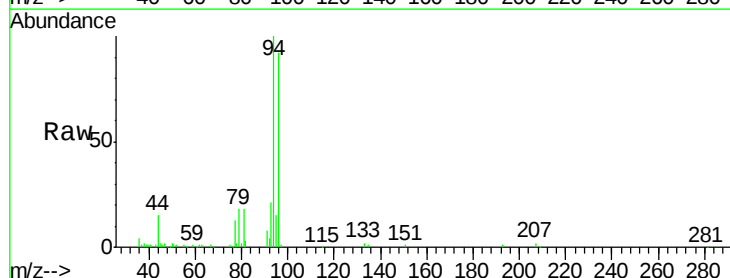
Acq: 16 Jul 2018 10:49

Tgt Ion: 94 Resp: 36232

Ion Ratio Lower Upper

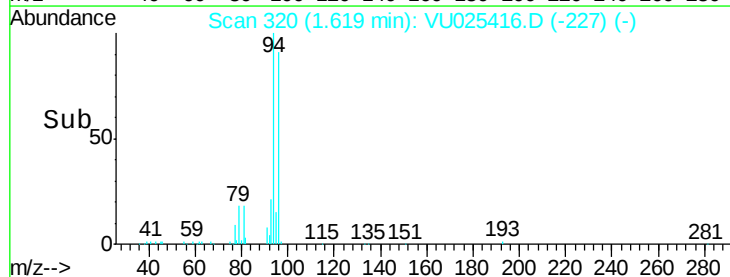
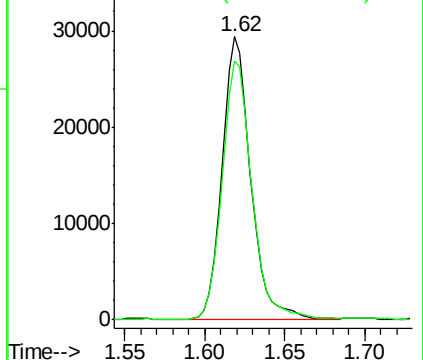
94 100

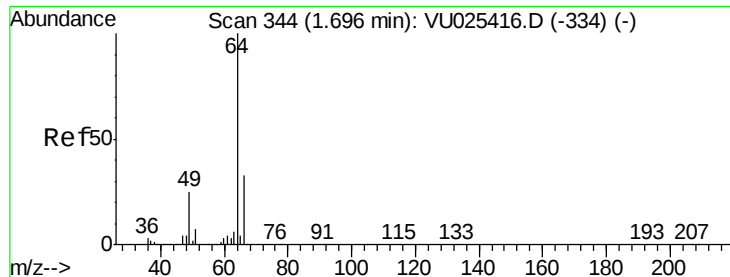
96 91.7 64.2 119.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

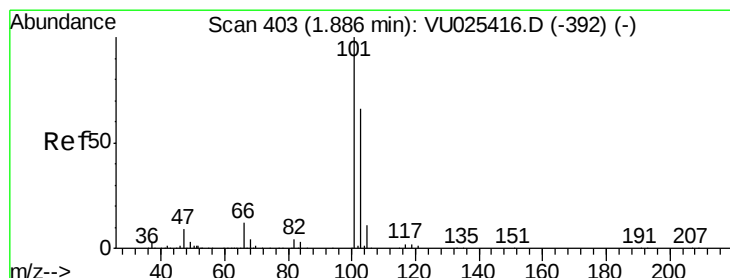
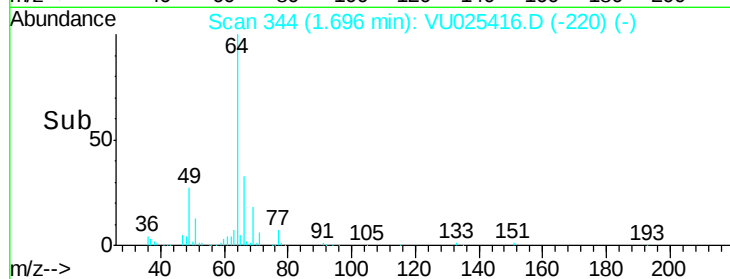
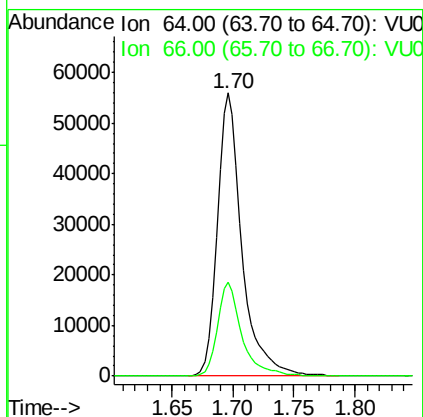
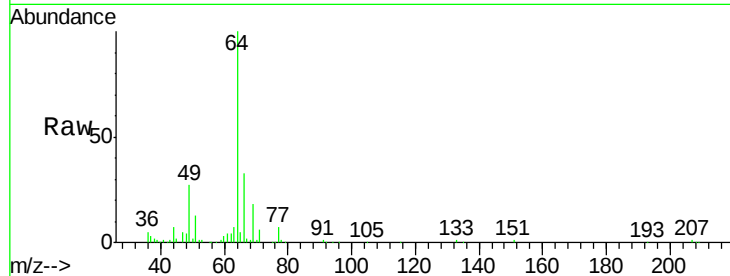




#8
 Chloroethane
 Concen: 46.548 ug/L
 RT: 1.70 min Scan# 344
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

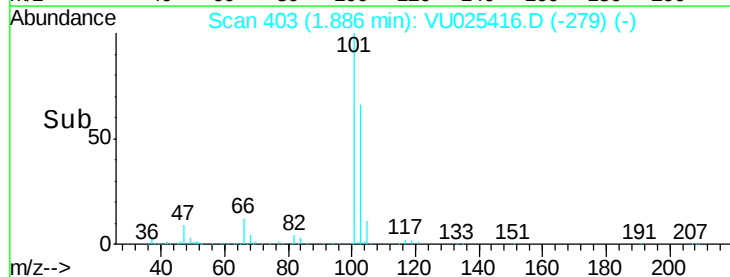
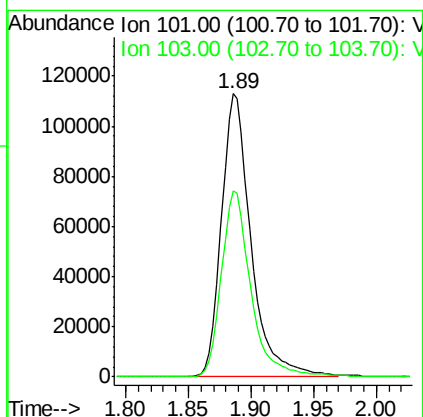
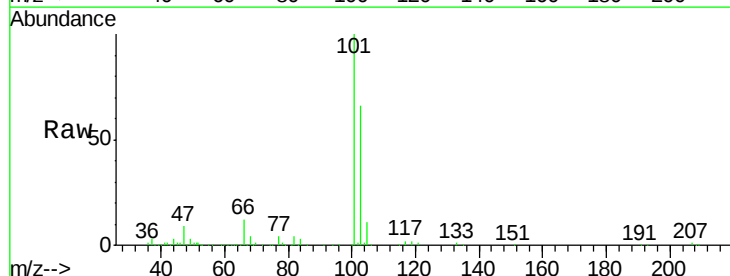
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

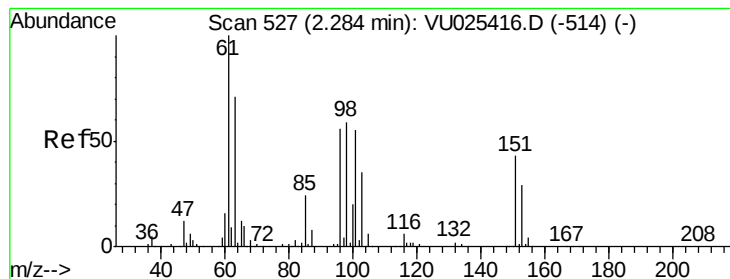
Tgt Ion: 64 Resp: 79183
 Ion Ratio Lower Upper
 64 100
 66 33.1 23.2 43.0



#9
 Trichlorofluoromethane
 Concen: 45.408 ug/L
 RT: 1.89 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion: 101 Resp: 185041
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.3 78.5





#10

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

Concen: 46.427 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

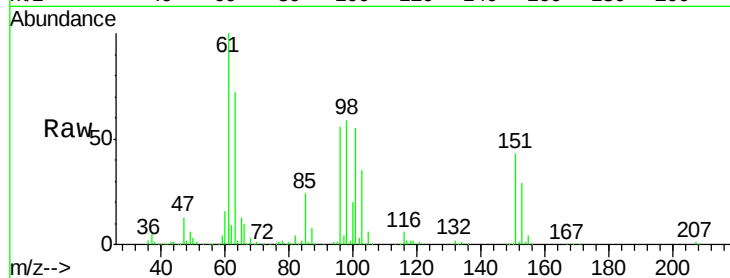
Tgt Ion: 101 Resp: 113327

Ion Ratio Lower Upper

101 100

85 43.4 34.7 52.1

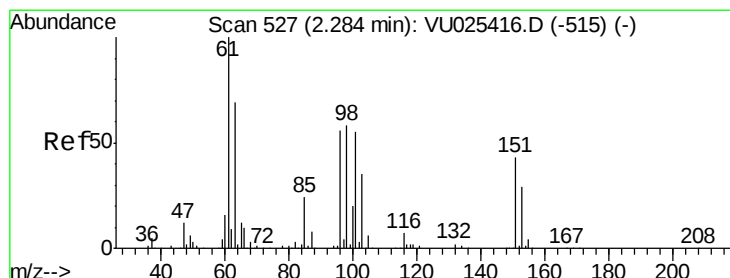
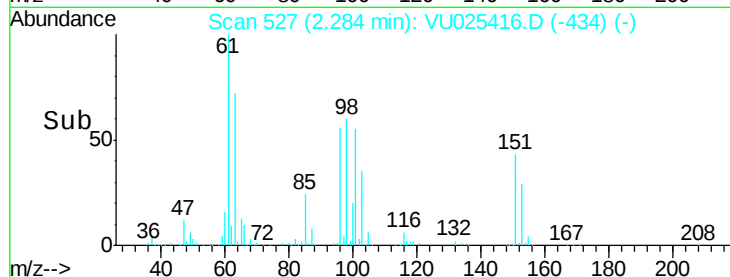
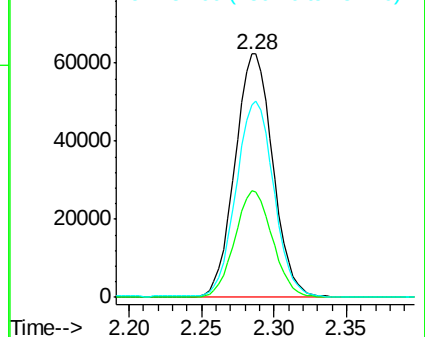
151 80.5 64.4 96.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.573 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

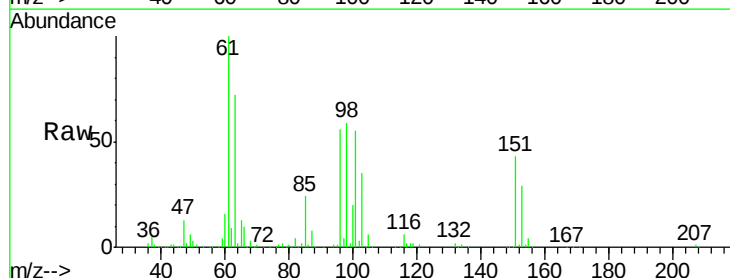
Tgt Ion: 96 Resp: 101097

Ion Ratio Lower Upper

96 100

61 179.9 125.9 233.9

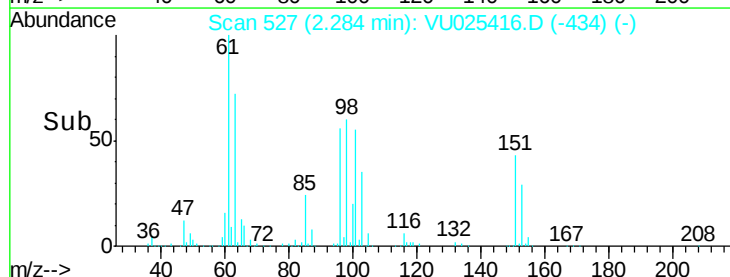
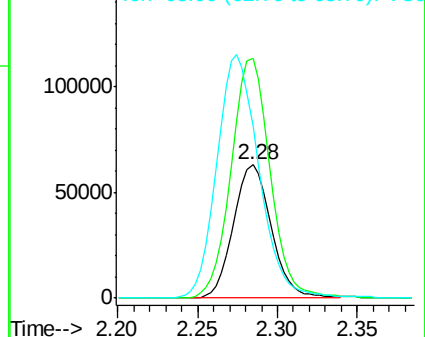
63 129.1 90.4 167.8

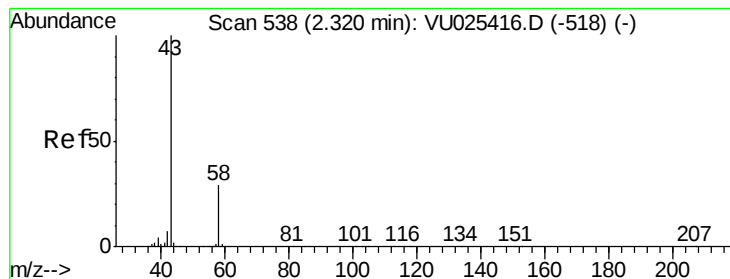


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 104.359 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

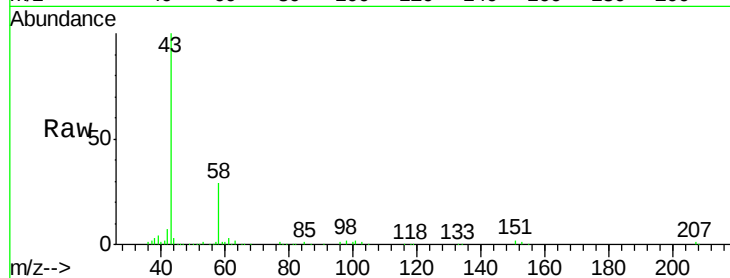
VSTD05053

Tgt Ion: 43 Resp: 200210

Ion Ratio Lower Upper

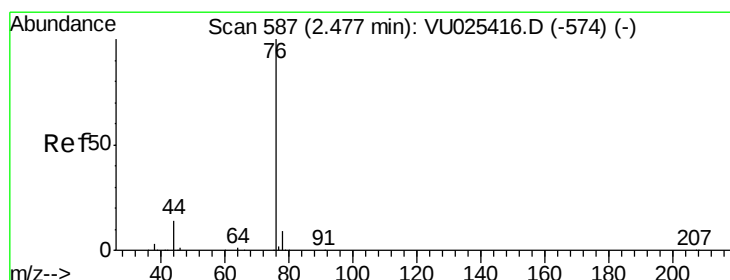
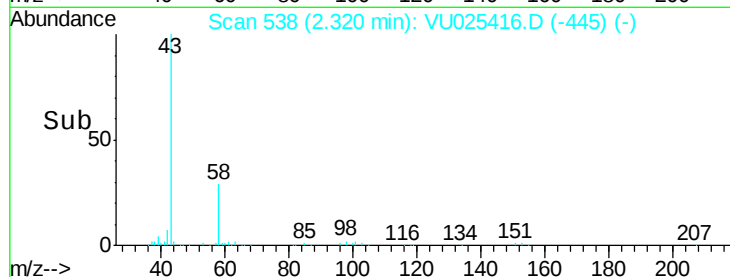
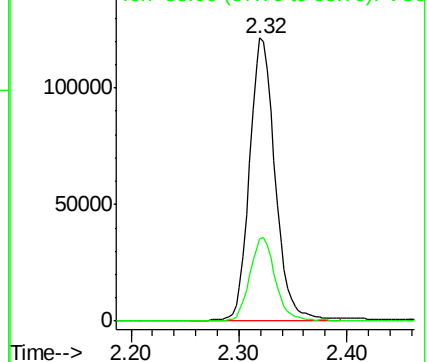
43 100

58 29.2 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 47.187 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025416.D

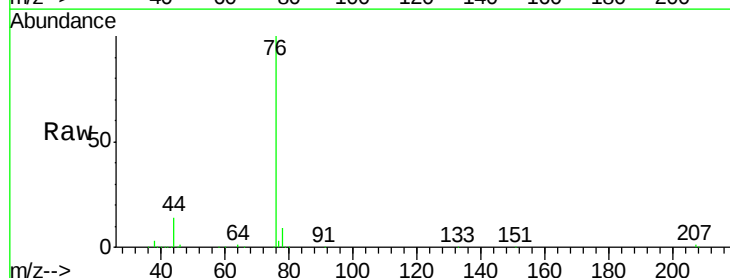
Acq: 16 Jul 2018 10:49

Tgt Ion: 76 Resp: 318348

Ion Ratio Lower Upper

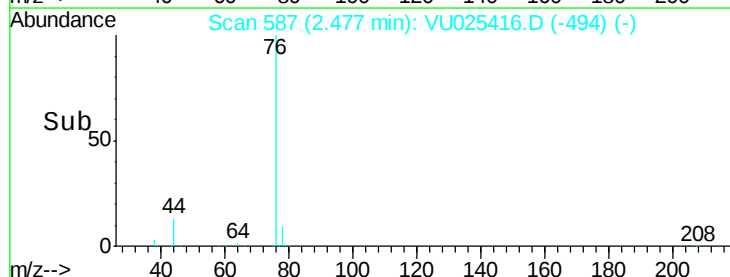
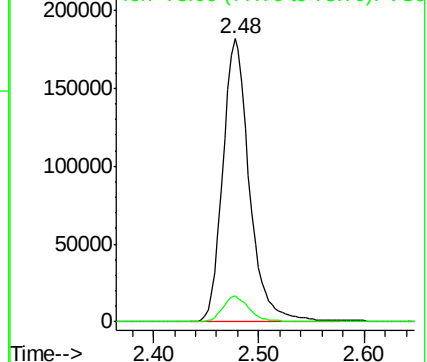
76 100

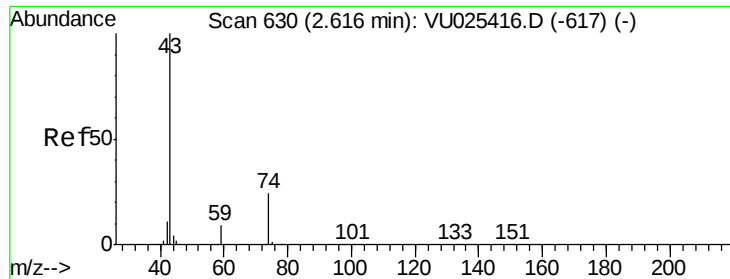
78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

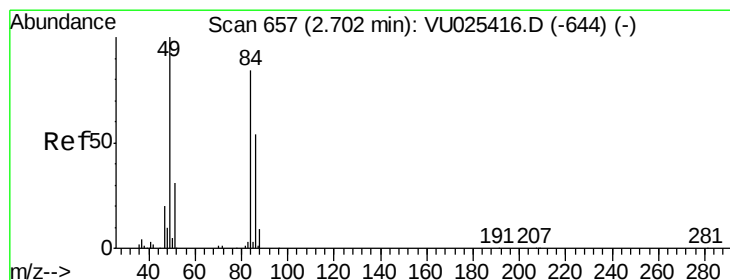
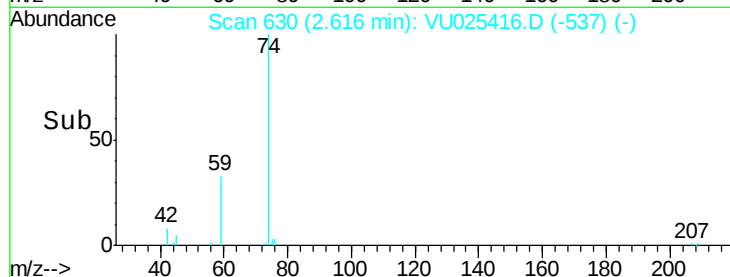
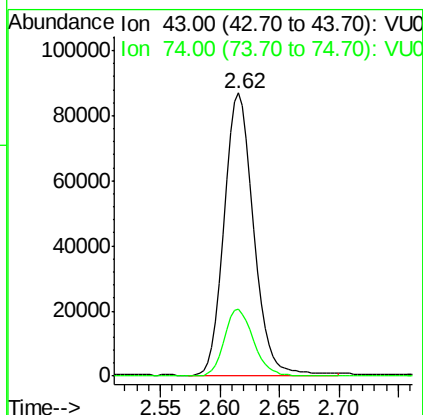
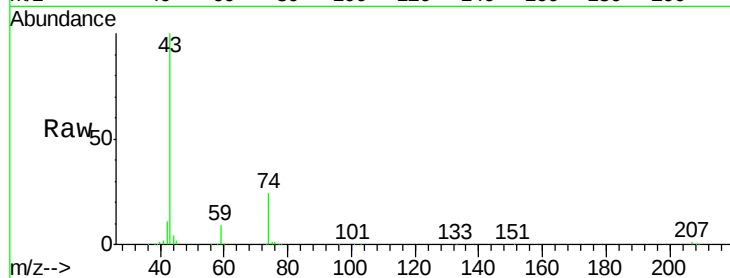




#15
Methyl Acetate
Concen: 50.815 ug/L
RT: 2.62 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

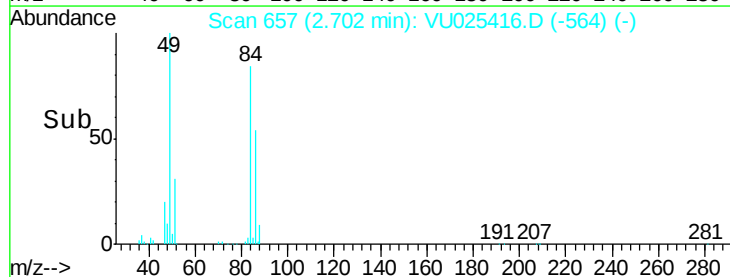
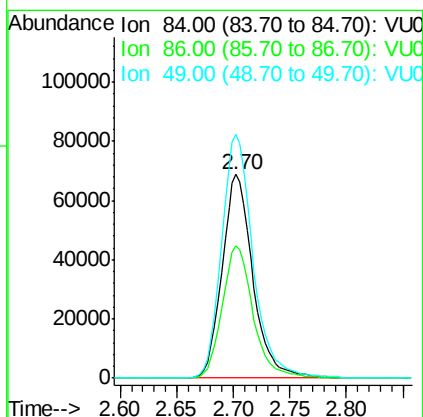
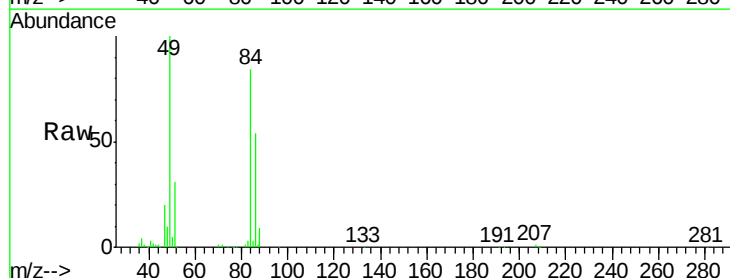
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

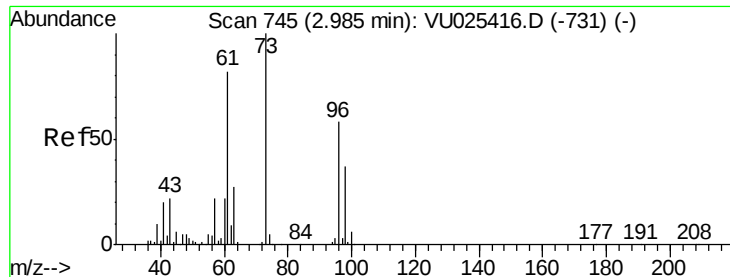
Tgt Ion: 43 Resp: 148914
Ion Ratio Lower Upper
43 100
74 23.5 18.8 28.2



#16
Methylene chloride
Concen: 49.236 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

Tgt Ion: 84 Resp: 130586
Ion Ratio Lower Upper
84 100
86 64.6 45.2 84.0
49 119.4 83.6 155.2





#17

trans-1,2-Dichloroethene

Concen: 46.866 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

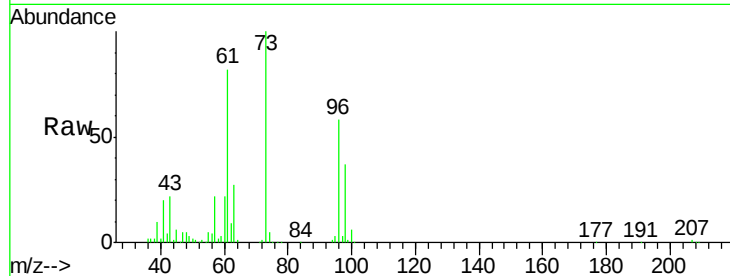
Tgt Ion: 96 Resp: 113546

Ion Ratio Lower Upper

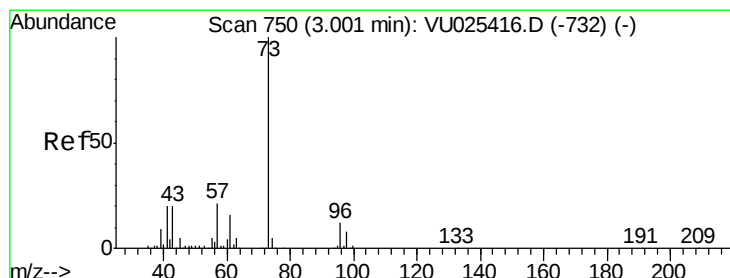
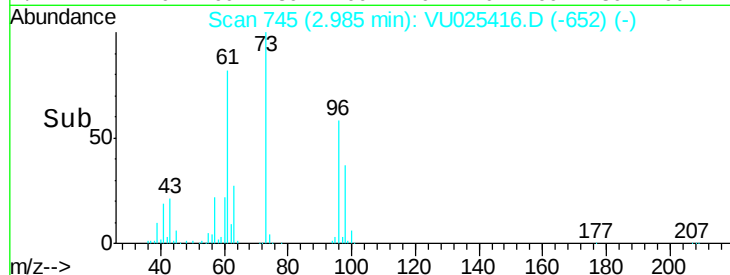
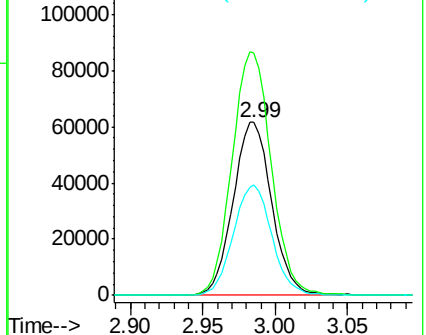
96 100

61 140.3 98.2 182.4

98 63.5 44.4 82.5



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



#18

Methyl tert-butyl Ether

Concen: 47.711 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

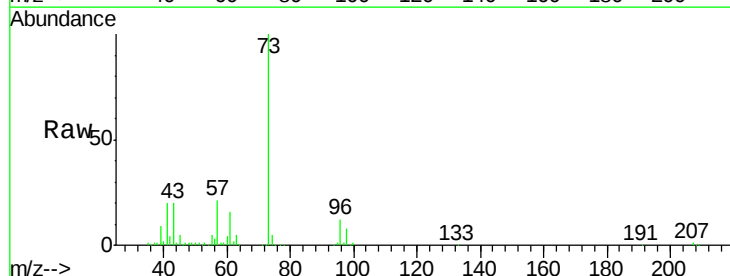
Tgt Ion: 73 Resp: 402403

Ion Ratio Lower Upper

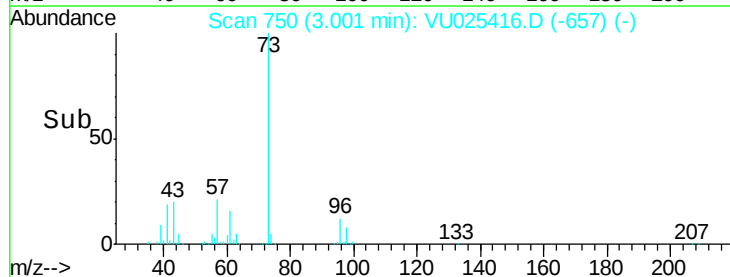
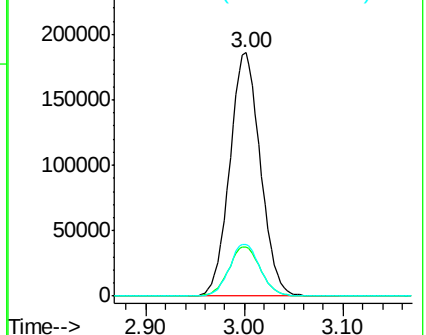
73 100

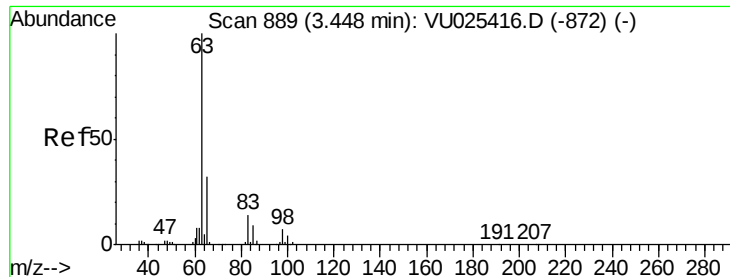
43 20.9 16.7 25.1

57 21.6 17.3 25.9



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

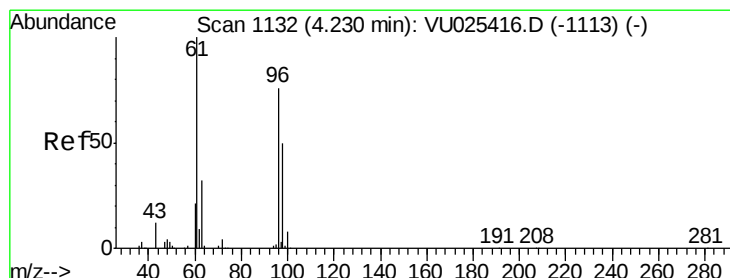
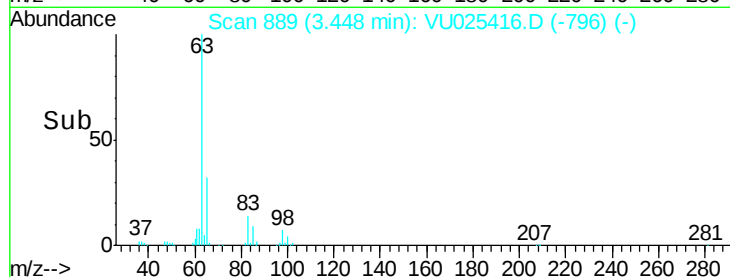
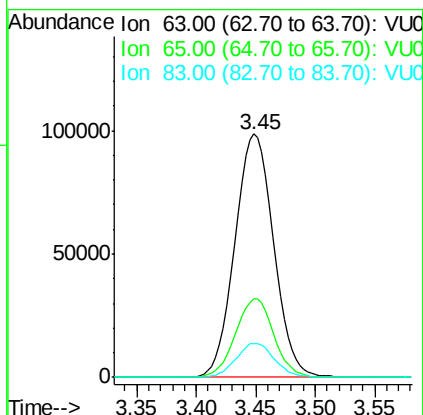
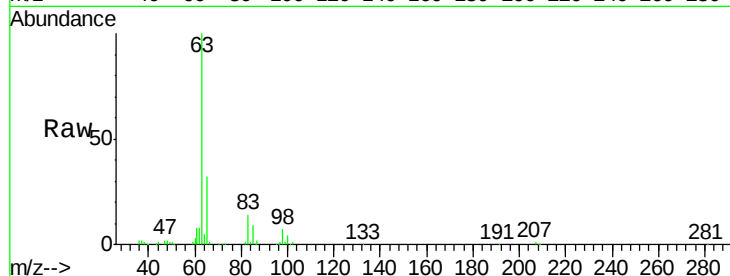




#19
 1,1-Dichloroethane
 Concen: 48.279 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

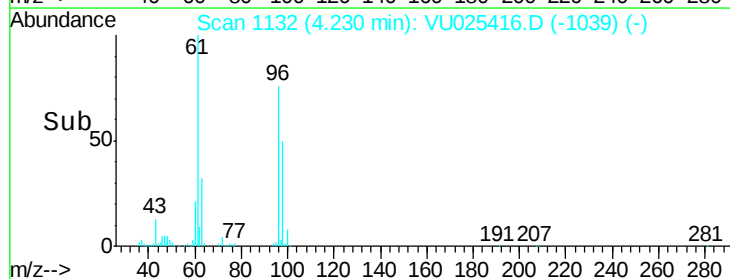
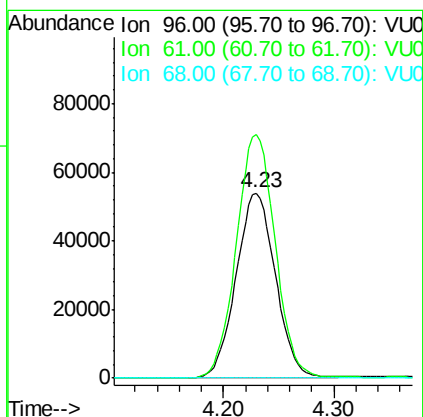
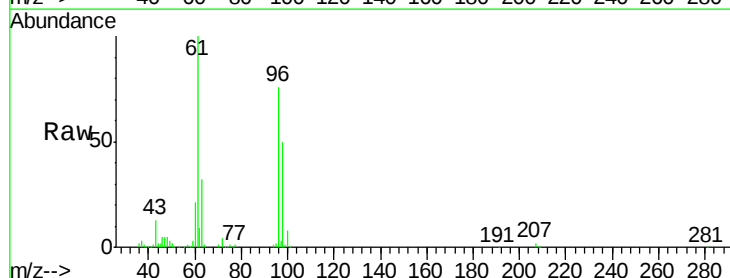
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

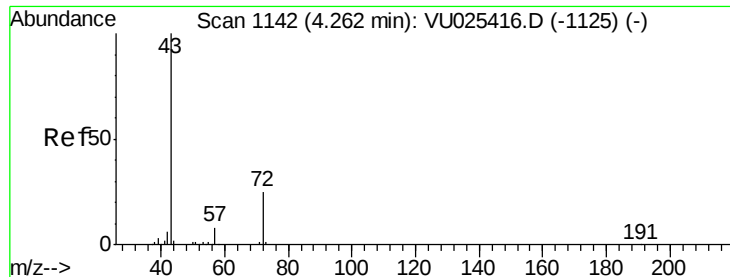
Tgt Ion: 63 Resp: 223109
 Ion Ratio Lower Upper
 63 100
 65 32.3 22.6 42.0
 83 13.7 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 47.666 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion: 96 Resp: 133513
 Ion Ratio Lower Upper
 96 100
 61 131.5 92.0 170.9
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 106.703 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampled :

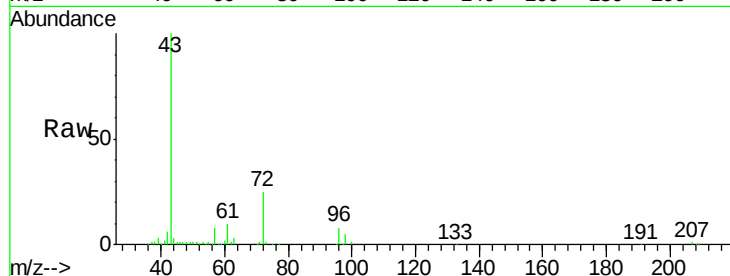
VSTD05053

Tgt Ion: 43 Resp: 243346

Ion Ratio Lower Upper

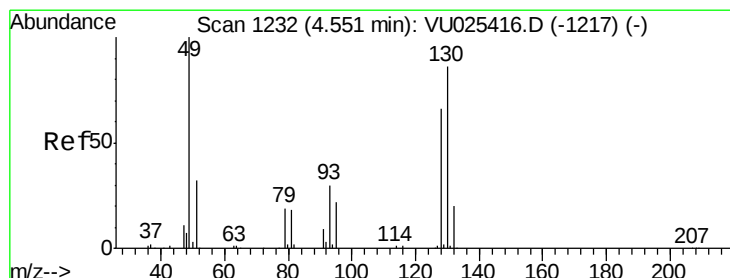
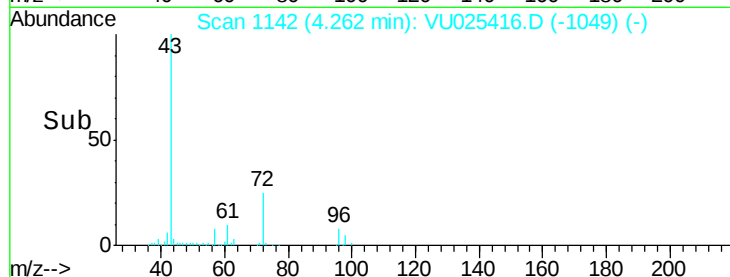
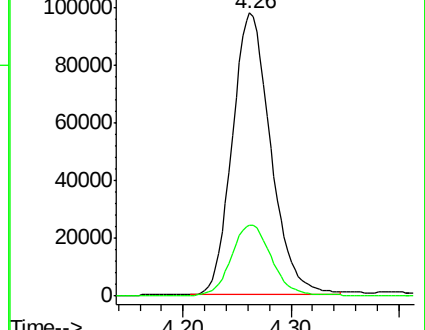
43 100

72 26.6 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VU025416.D (-1125) (-)

Ion 72.00 (71.70 to 72.70): VU025416.D (-1125) (-)



#23

Bromochloromethane

Concen: 45.554 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Tgt Ion: 128 Resp: 64781

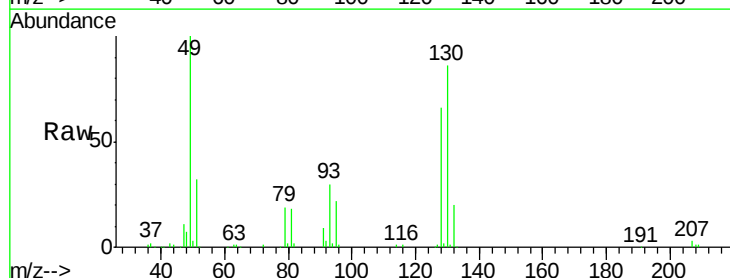
Ion Ratio Lower Upper

128 100

49 152.1 106.5 197.7

130 130.6 91.4 169.8

51 48.3 38.6 58.0

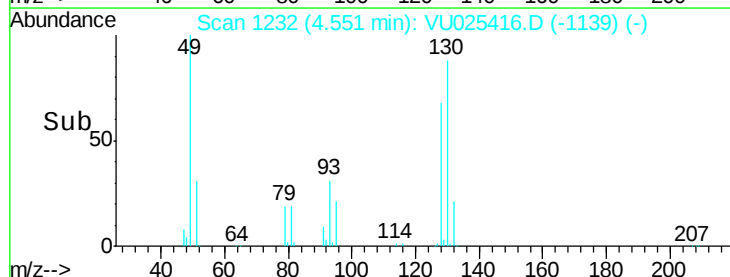
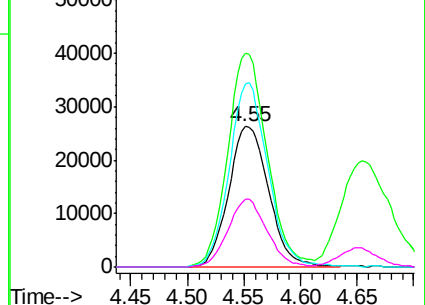


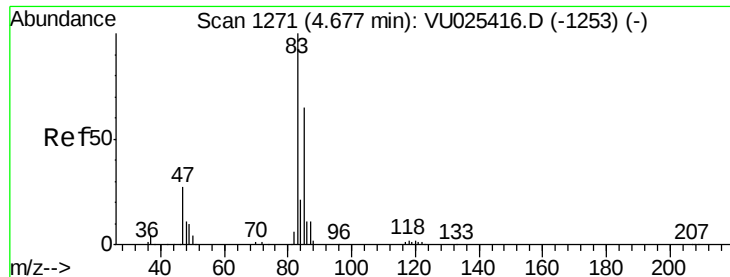
Abundance Ion 128.00 (127.70 to 128.70): VU025416.D (-1217) (-)

Ion 49.00 (48.70 to 49.70): VU025416.D (-1217) (-)

Ion 130.00 (129.70 to 130.70): VU025416.D (-1217) (-)

Ion 51.00 (50.70 to 51.70): VU025416.D (-1217) (-)





#25

Chloroform

Concen: 48.146 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

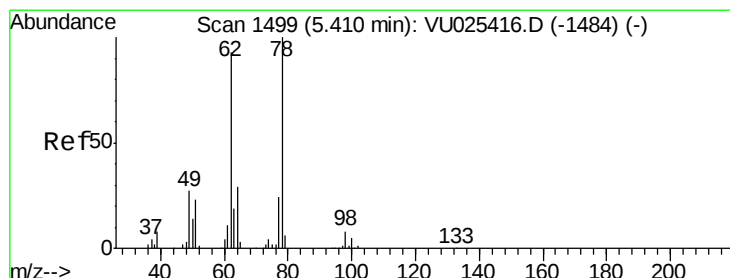
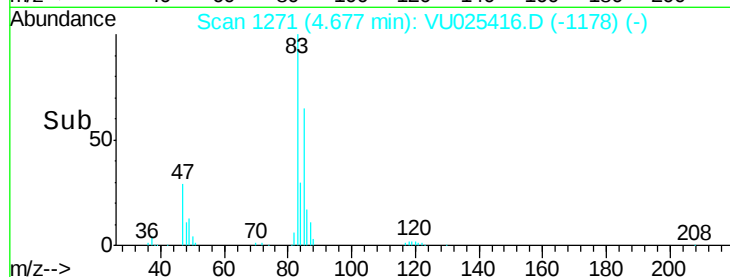
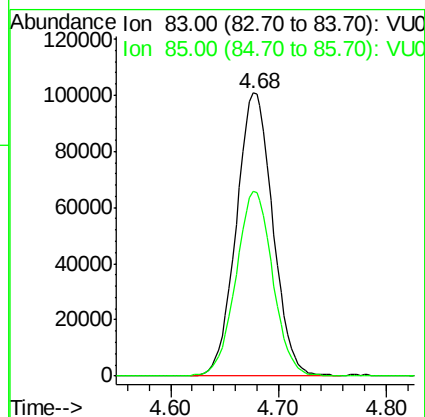
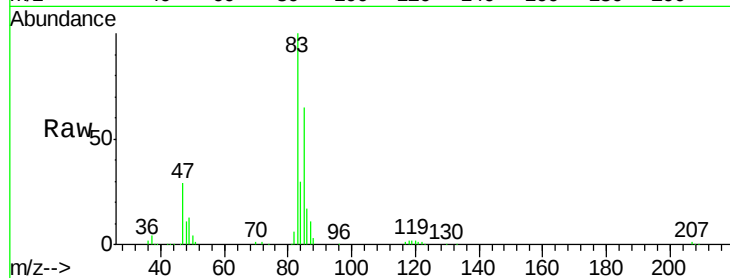
VSTD05053

Tgt Ion: 83 Resp: 237538

Ion Ratio Lower Upper

83 100

85 65.1 45.6 84.6



#27

1,2-Dichloroethane

Concen: 46.519 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU025416.D

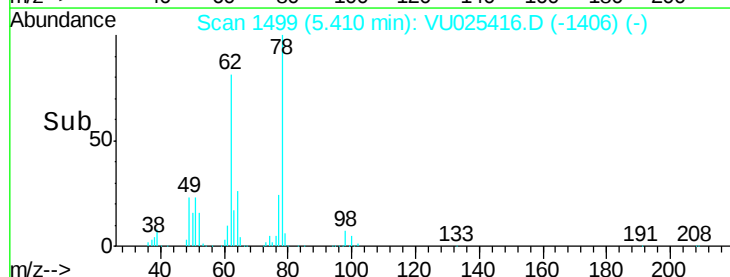
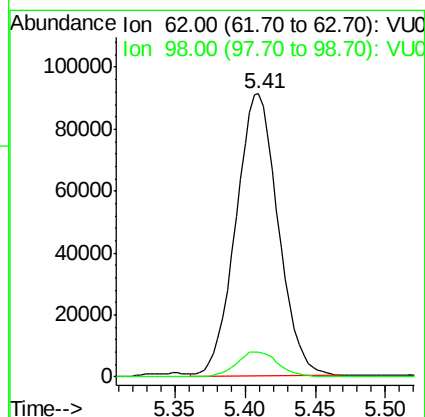
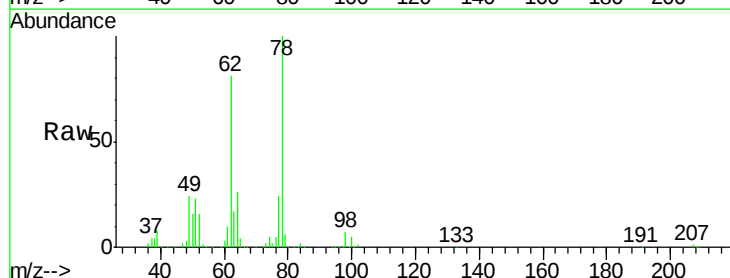
Acq: 16 Jul 2018 10:49

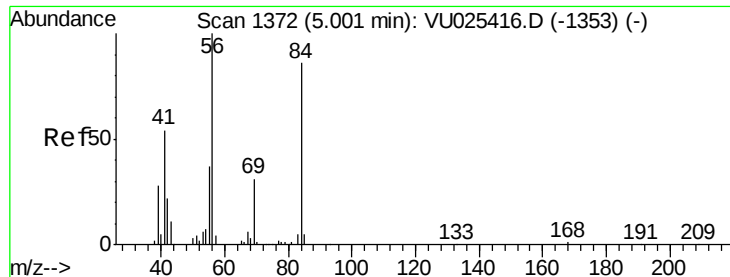
Tgt Ion: 62 Resp: 190725

Ion Ratio Lower Upper

62 100

98 8.7 7.0 10.4

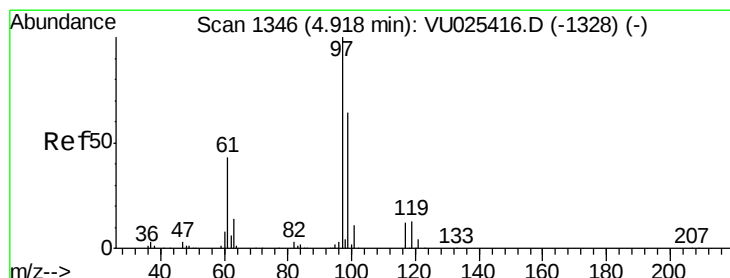
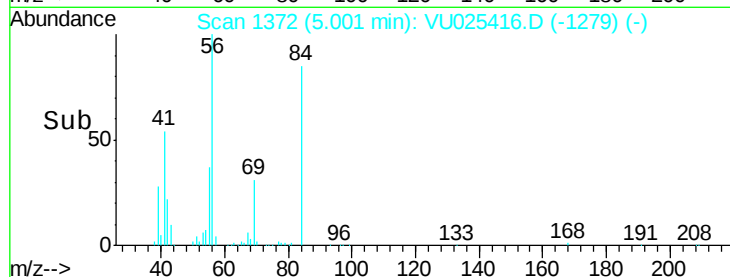
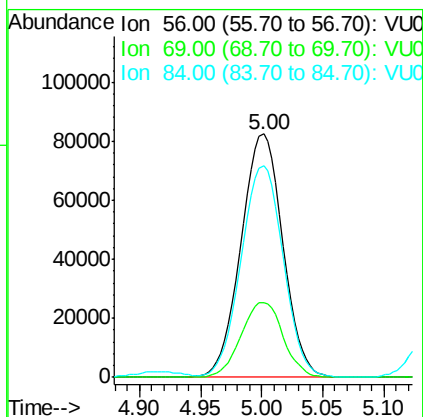
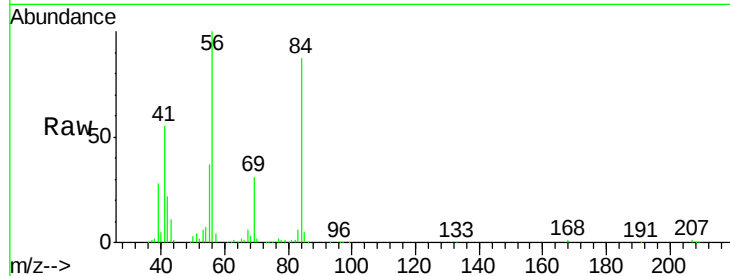




#29
Cyclohexane
Concen: 44.911 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

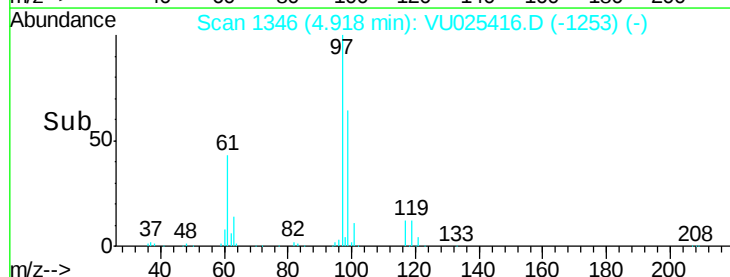
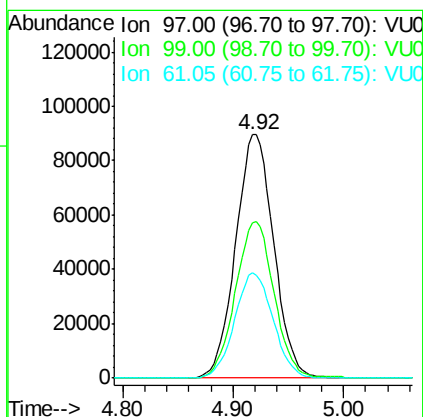
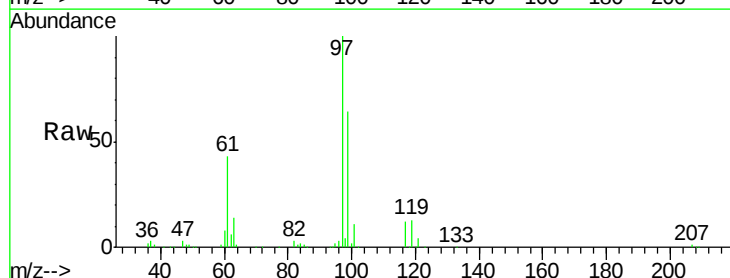
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

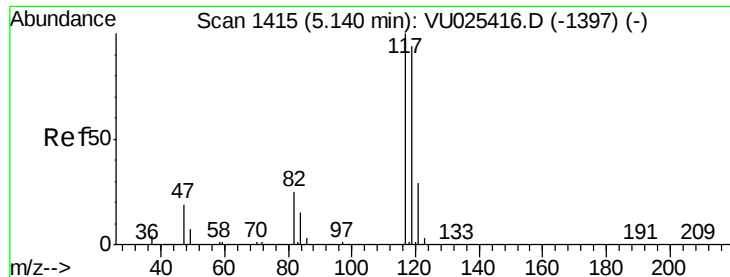
Tgt Ion: 56 Resp: 195830
Ion Ratio Lower Upper
56 100
69 31.0 24.8 37.2
84 87.5 70.0 105.0



#30
1,1,1-Trichloroethane
Concen: 47.182 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

Tgt Ion: 97 Resp: 214460
Ion Ratio Lower Upper
97 100
99 64.8 51.8 77.8
61 43.5 34.8 52.2





#31

Carbon tetrachloride

Concen: 47.813 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

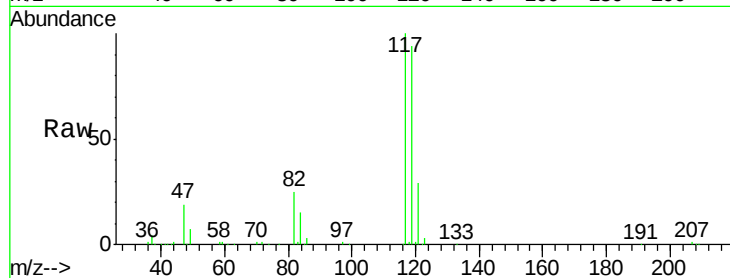
VSTD05053

Tgt Ion:117 Resp: 189740

Ion Ratio Lower Upper

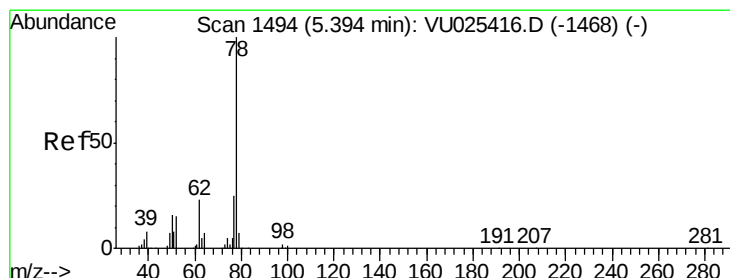
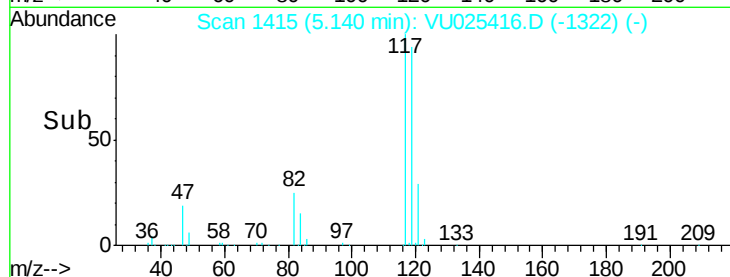
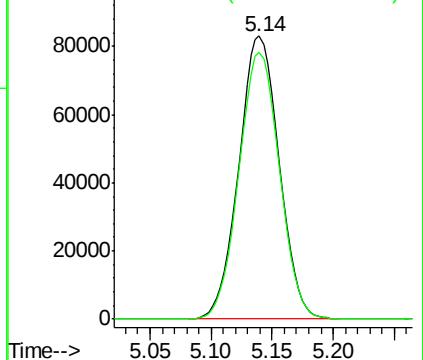
117 100

119 94.8 75.8 113.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.911 ug/L

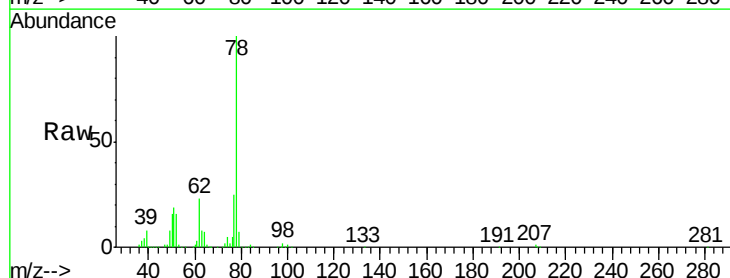
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

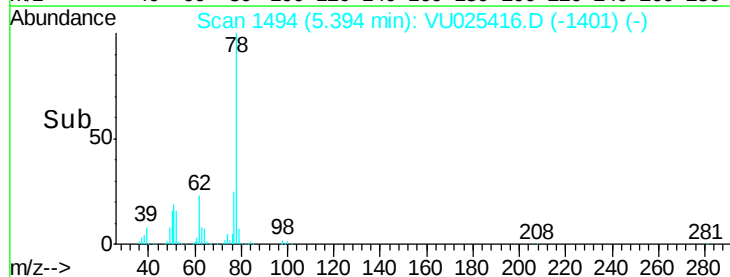
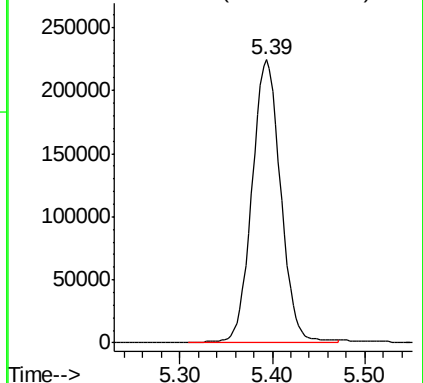
Lab File: VU025416.D

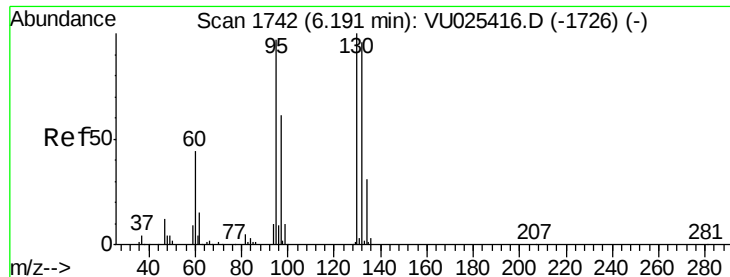
Acq: 16 Jul 2018 10:49

Tgt Ion: 78 Resp: 484143



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 46.234 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

Tgt Ion: 95 Resp: 126460

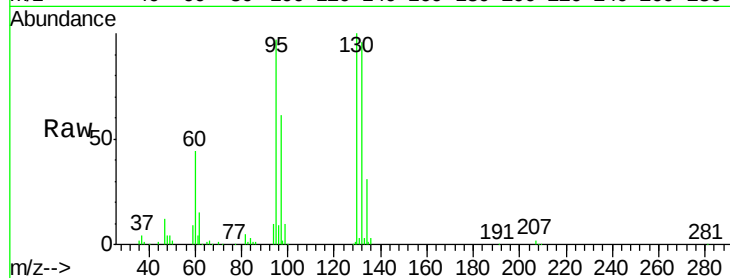
Ion Ratio Lower Upper

95 100

97 63.3 44.3 82.3

132 99.4 69.6 129.2

130 103.5 72.4 134.5

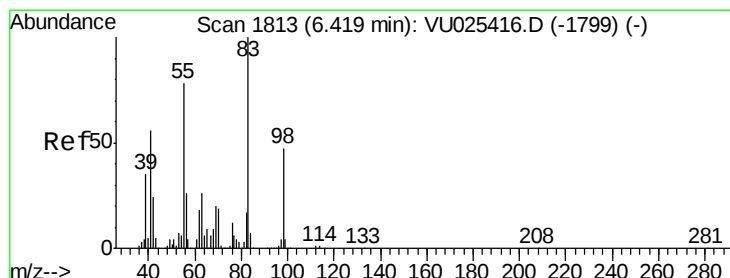
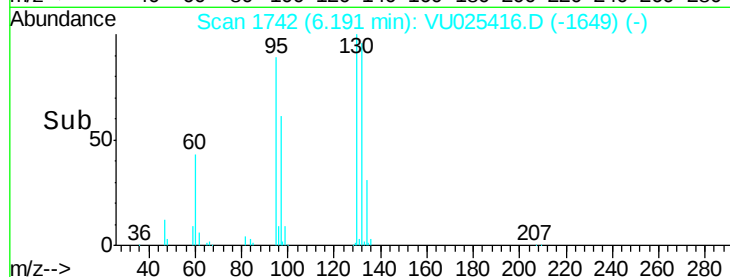
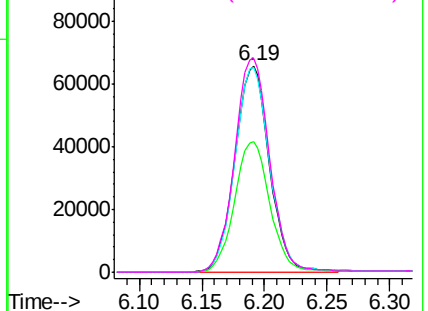


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 45.685 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

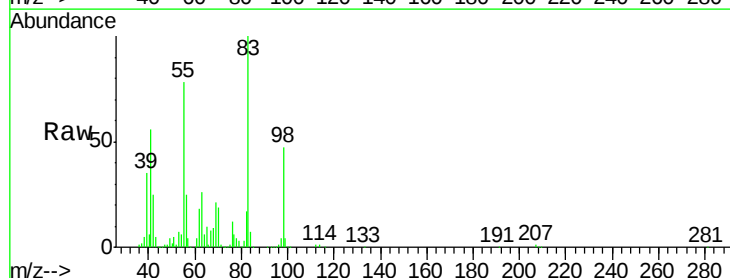
Tgt Ion: 83 Resp: 207790

Ion Ratio Lower Upper

83 100

55 75.7 60.6 90.8

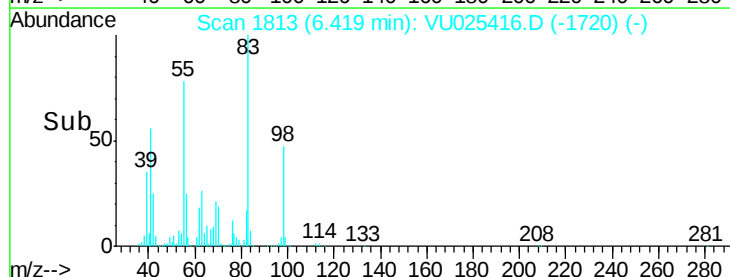
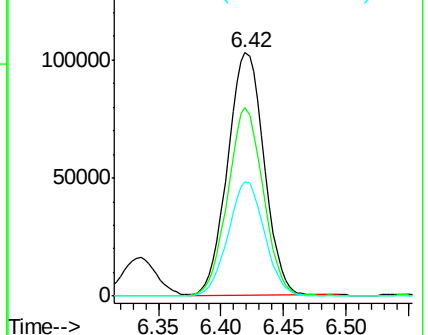
98 47.0 37.6 56.4

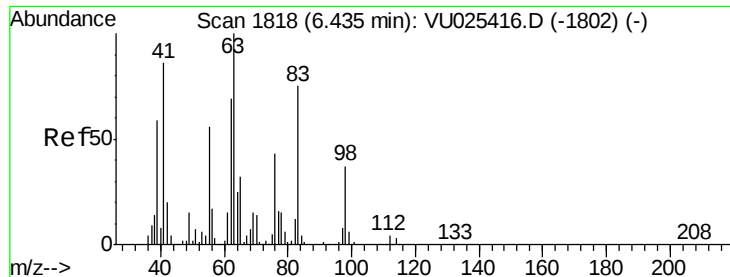


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

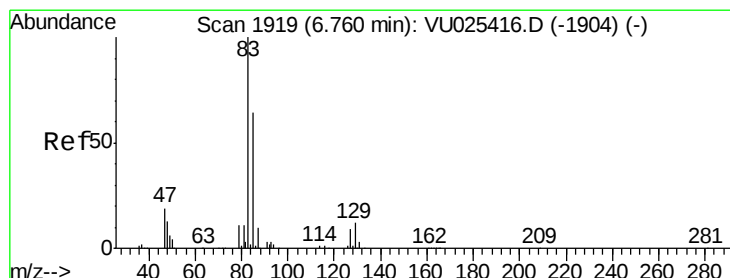
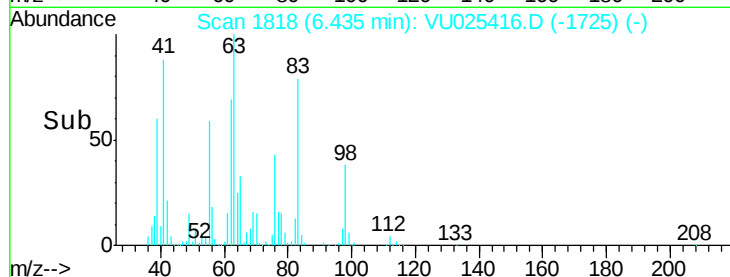
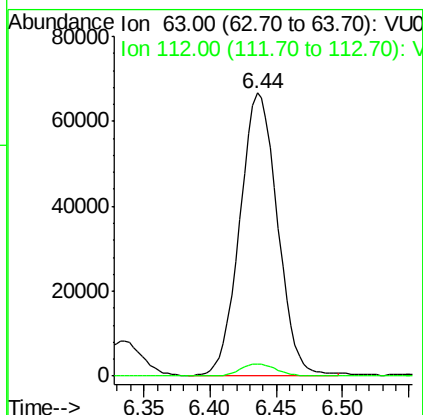
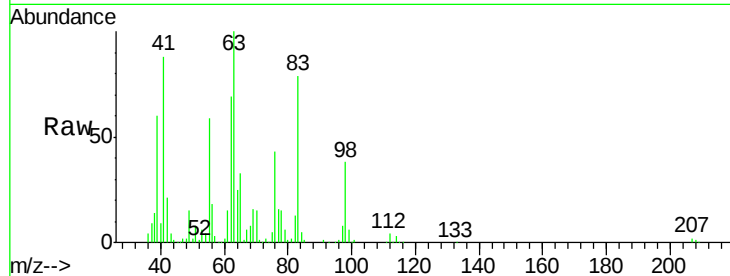




#37
 1,2-Dichloropropane
 Concen: 47.878 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

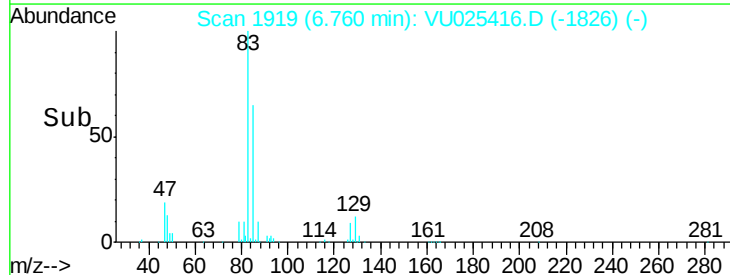
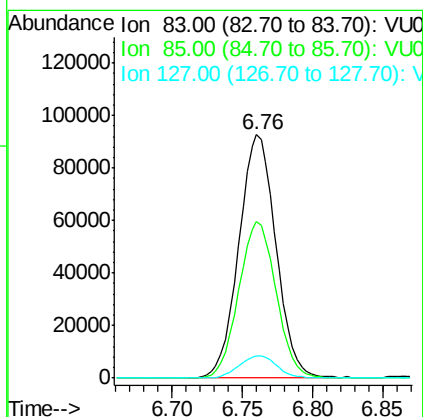
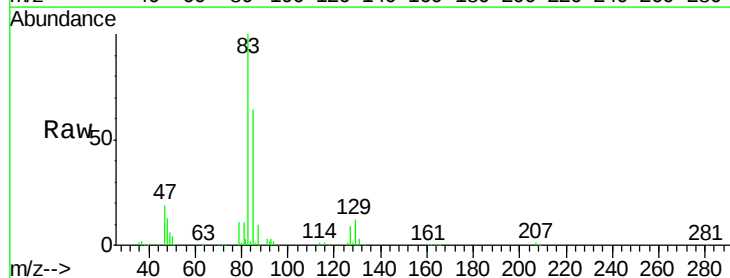
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

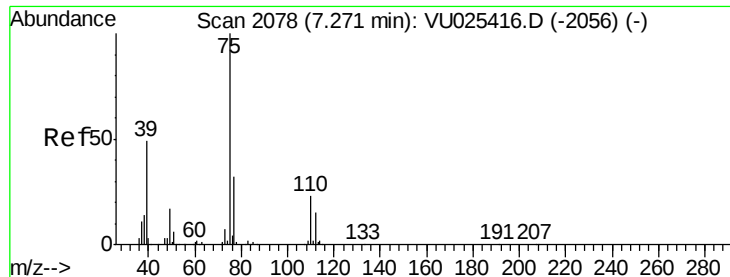
Tgt Ion: 63 Resp: 132416
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.3 4.9



#38
 Bromodichloromethane
 Concen: 46.885 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion: 83 Resp: 170927
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.0 83.6
 127 9.2 7.4 11.0



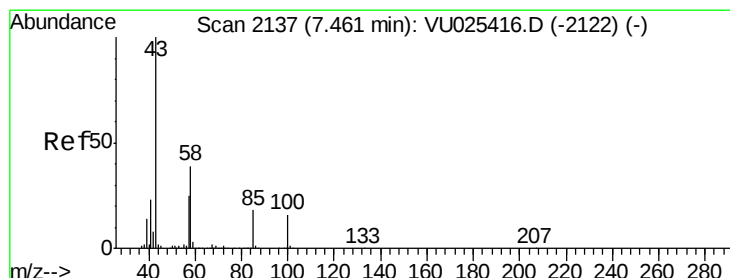
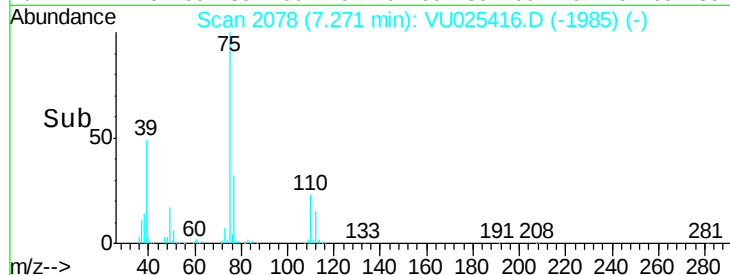
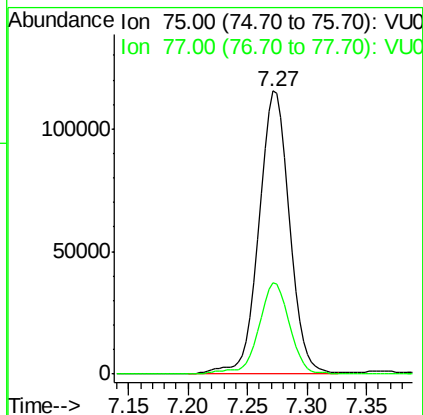
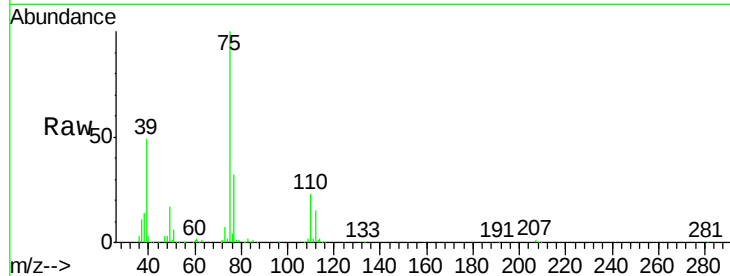


#39

cis-1,3-Dichloropropene
 Concen: 47.351 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

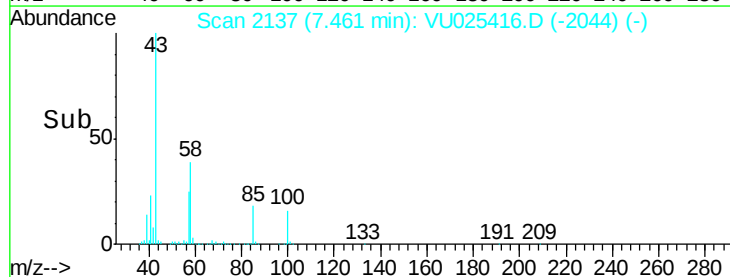
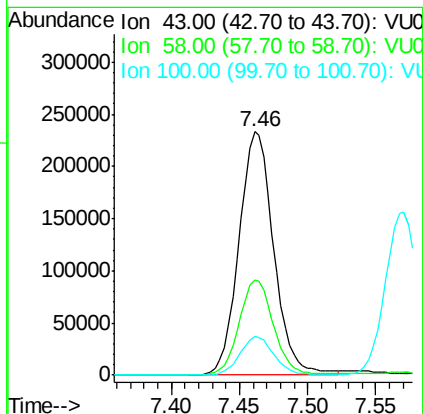
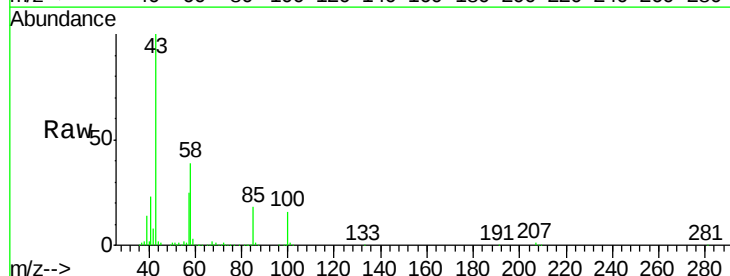
Tgt Ion: 75 Resp: 205955
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.7 42.3

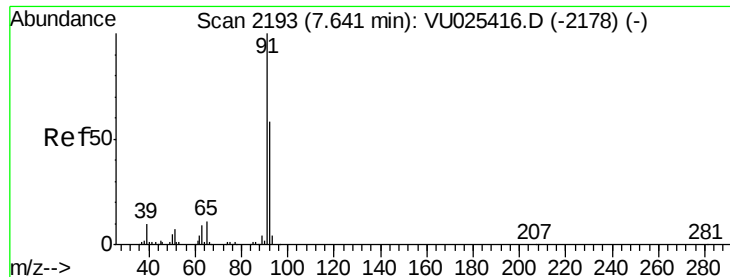


#40

4-Methyl-2-pentanone
 Concen: 102.051 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion: 43 Resp: 412980
 Ion Ratio Lower Upper
 43 100
 58 38.7 31.0 46.4
 100 15.6 12.5 18.7





#42

Toluene

Concen: 46.860 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

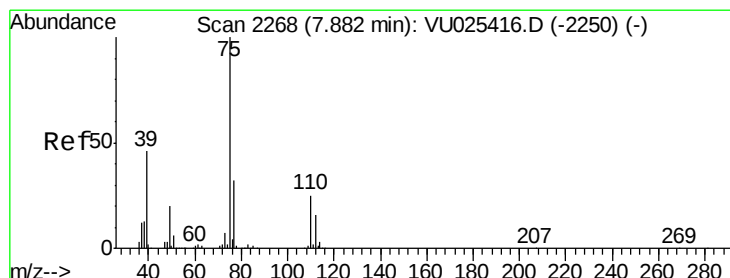
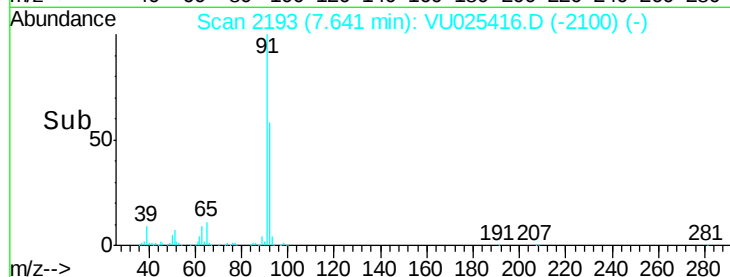
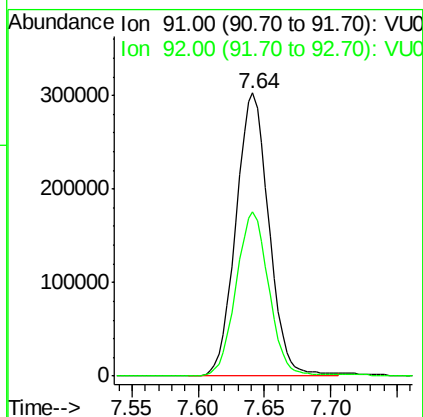
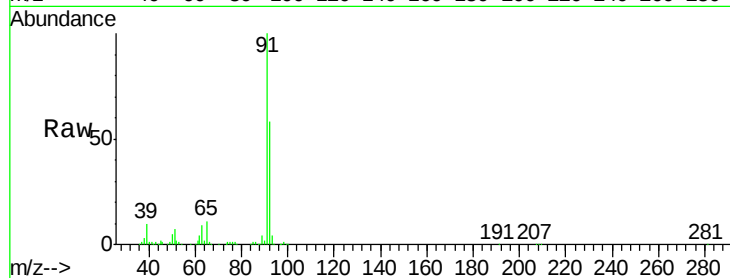
VSTD05053

Tgt Ion: 91 Resp: 524481

Ion Ratio Lower Upper

91 100

92 58.1 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 46.311 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025416.D

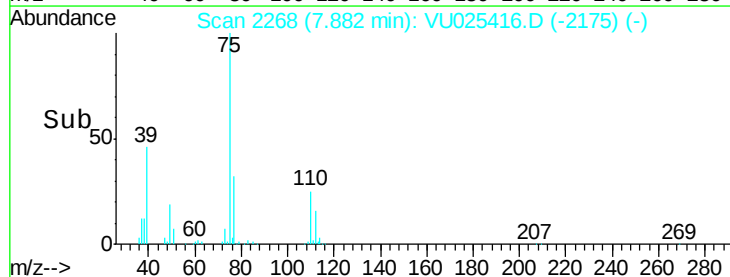
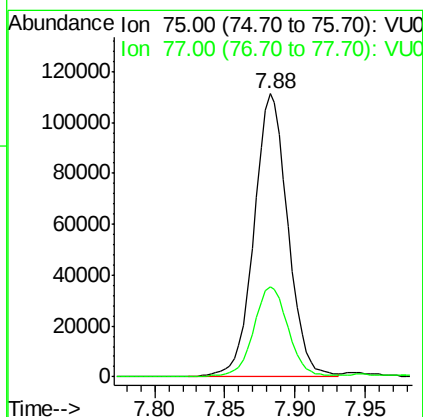
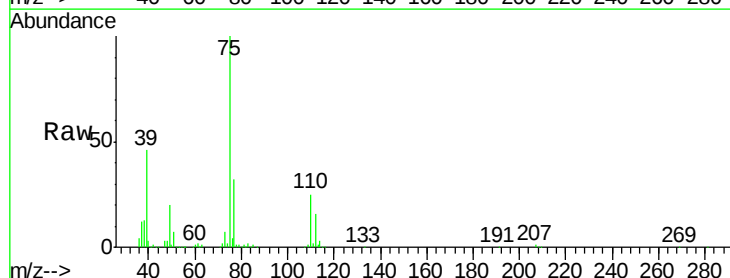
Acq: 16 Jul 2018 10:49

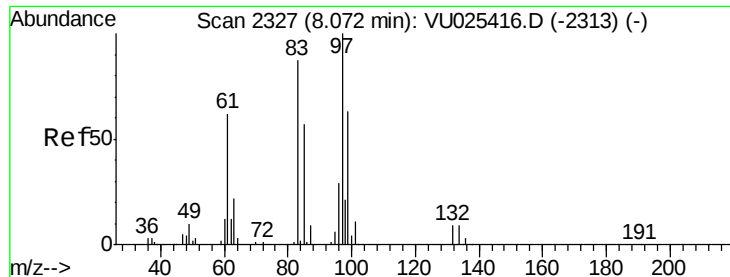
Tgt Ion: 75 Resp: 186671

Ion Ratio Lower Upper

75 100

77 32.0 22.4 41.6

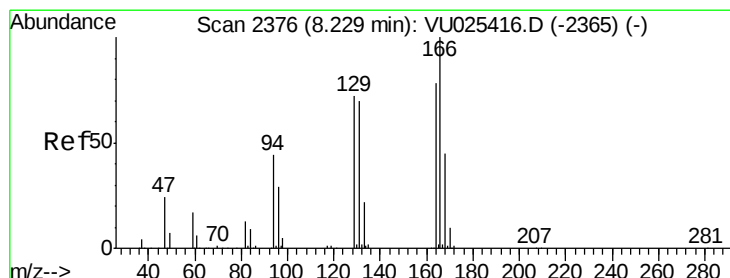
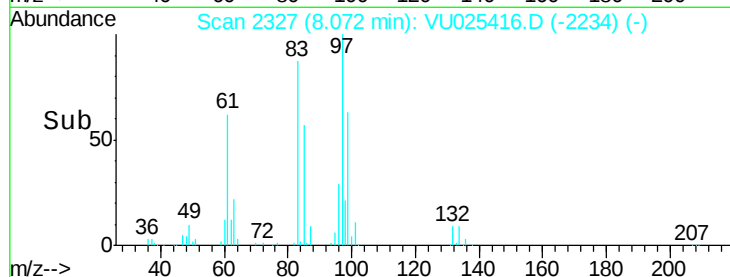
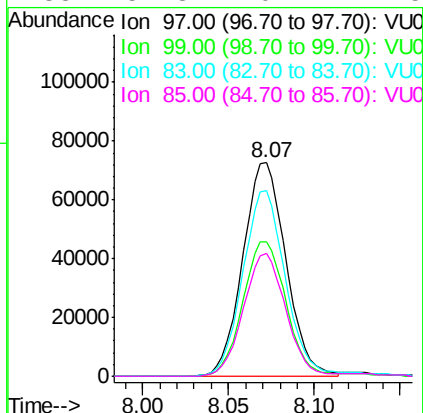
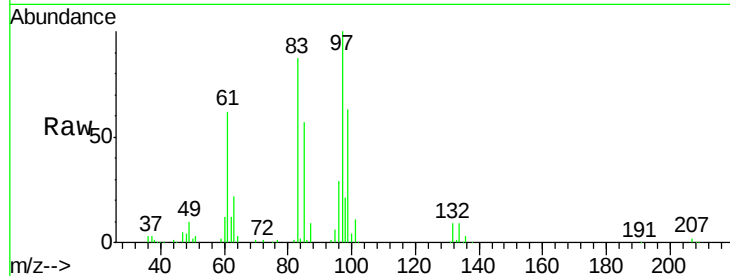




#45
 1,1,2-Trichloroethane
 Concen: 47.942 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

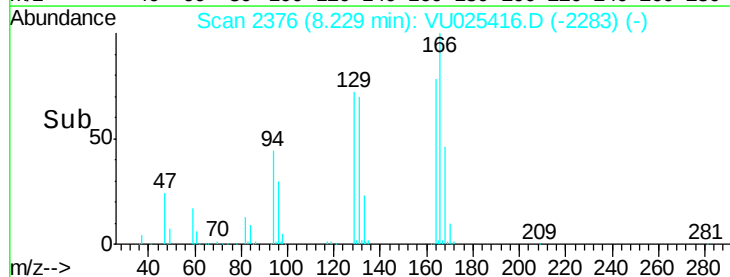
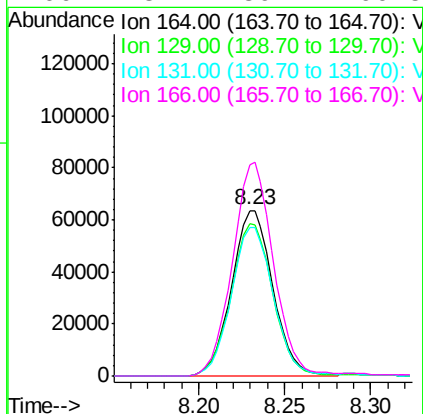
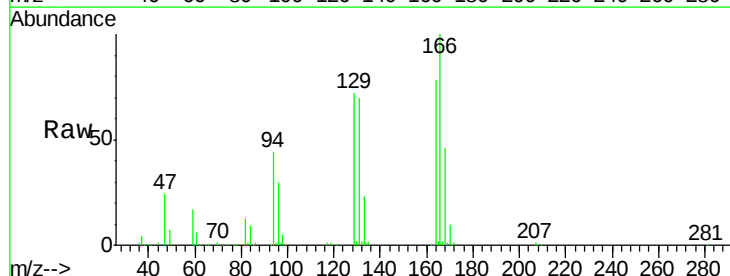
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05053

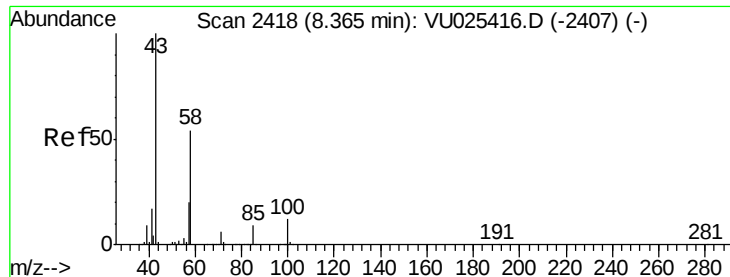
Tgt Ion:	97	Resp:	126293
Ion	Ratio	Lower	Upper
97	100		
99	63.2	44.2	82.2
83	87.1	61.0	113.2
85	57.3	40.1	74.5



#46
 Tetrachloroethene
 Concen: 46.150 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion:	164	Resp:	106687
Ion	Ratio	Lower	Upper
164	100		
129	92.4	64.7	120.1
131	90.2	63.1	117.3
166	128.1	89.7	166.5

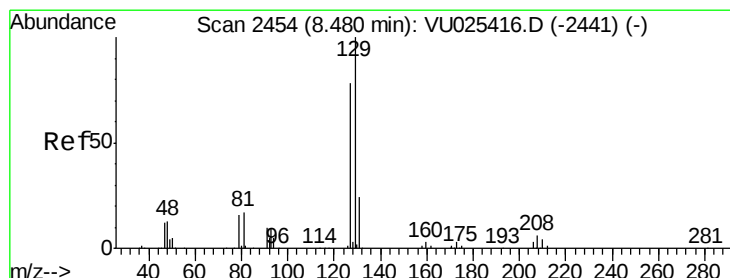
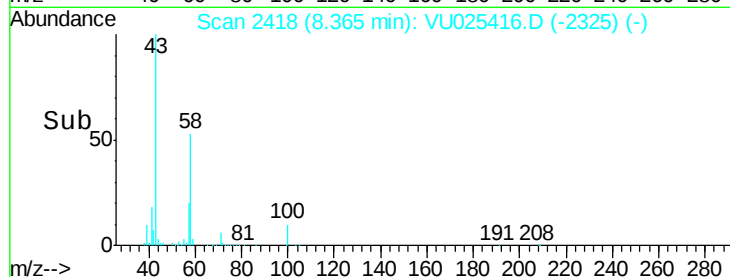
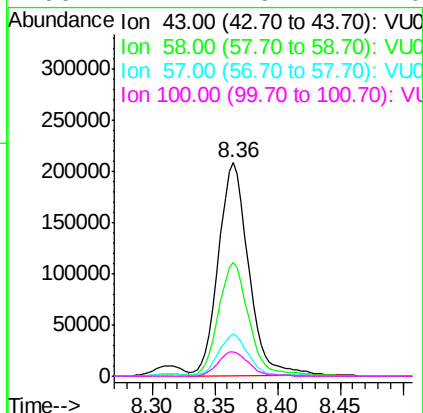
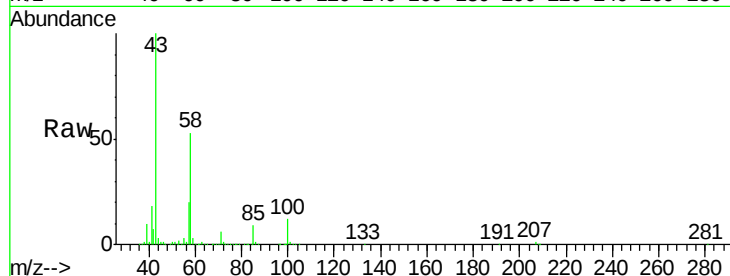




#48
2-Hexanone
Concen: 107.327 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

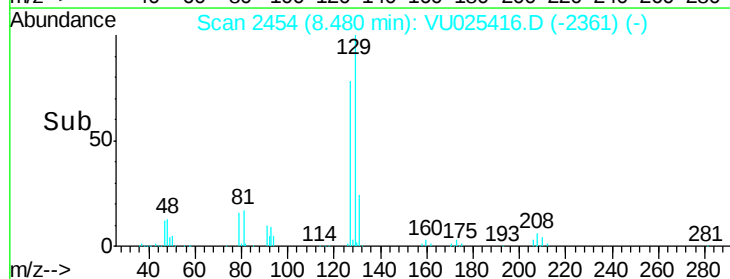
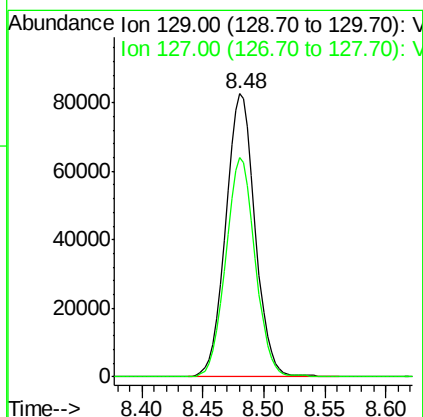
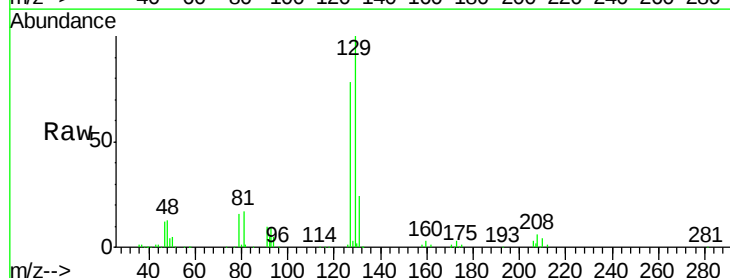
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

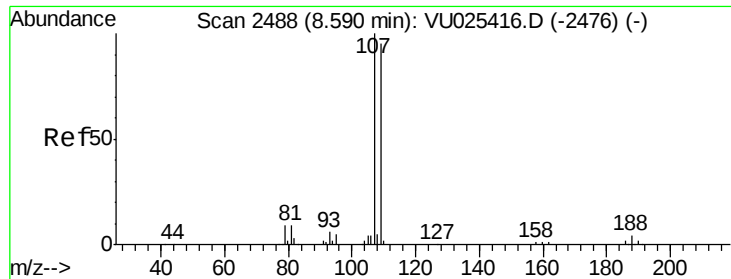
Tgt Ion:	43	Resp:	349676
Ion	Ratio	Lower	Upper
43	100		
58	53.7	43.0	64.4
57	19.7	15.8	23.6
100	11.7	9.4	14.0



#49
Dibromochloromethane
Concen: 45.654 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

Tgt Ion:	129	Resp:	139273
Ion	Ratio	Lower	Upper
129	100		
127	77.7	54.4	101.0

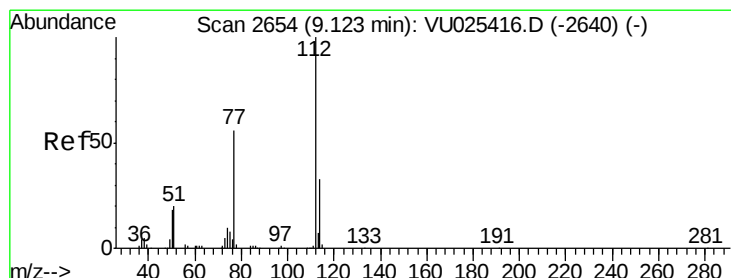
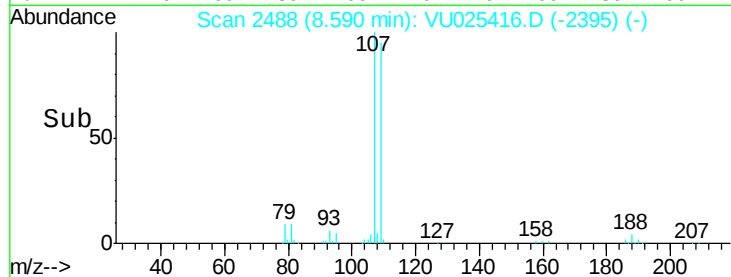
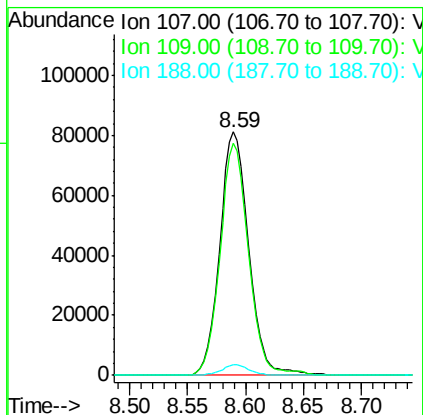
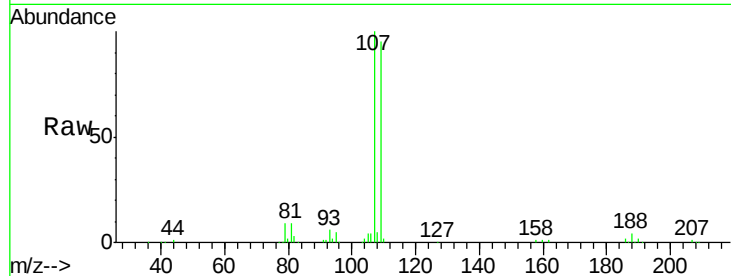




#50
1,2-Dibromoethane
Concen: 48.184 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

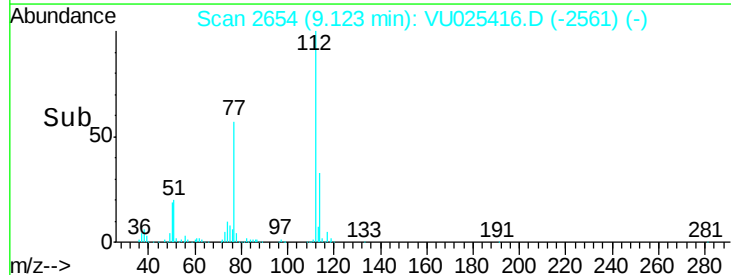
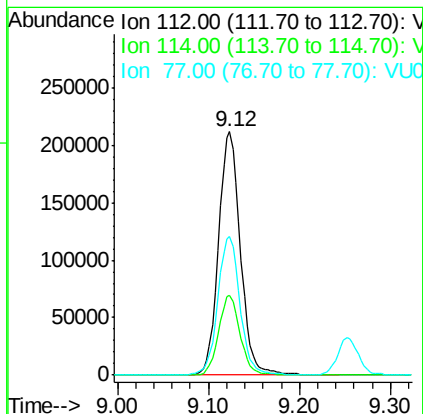
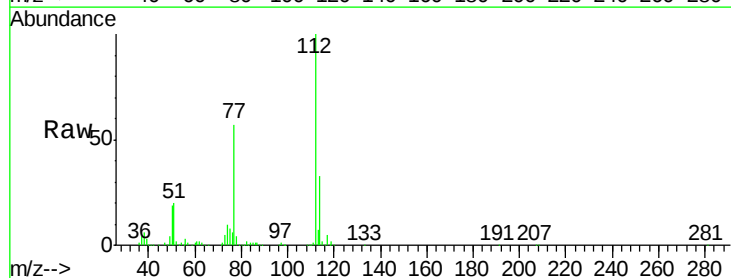
Instrument :
MSVOA_U
ClientSampleId :
VSTD05053

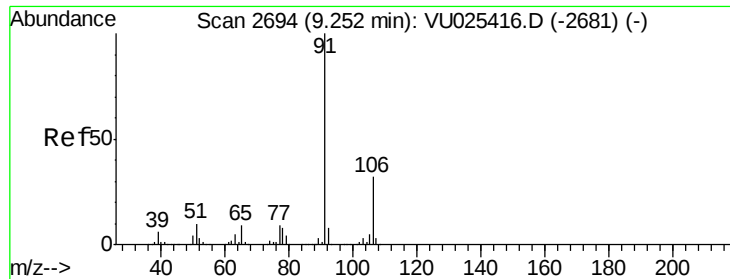
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.5	66.8	124.2
188	4.5	3.6	5.4



#51
Chlorobenzene
Concen: 47.203 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025416.D
Acq: 16 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.8	42.4
77	56.9	45.5	68.3





#52

Ethylbenzene

Concen: 47.317 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

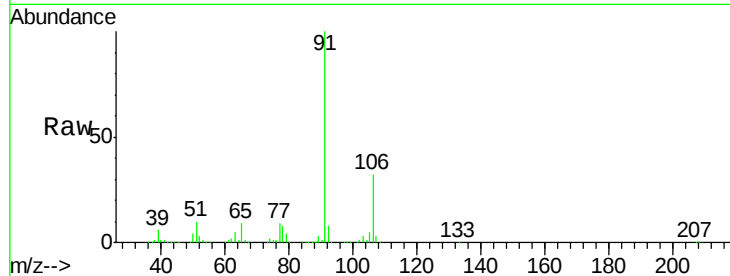
VSTD05053

Tgt Ion: 91 Resp: 594739

Ion Ratio Lower Upper

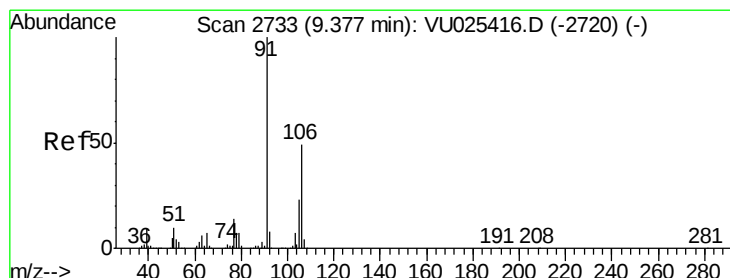
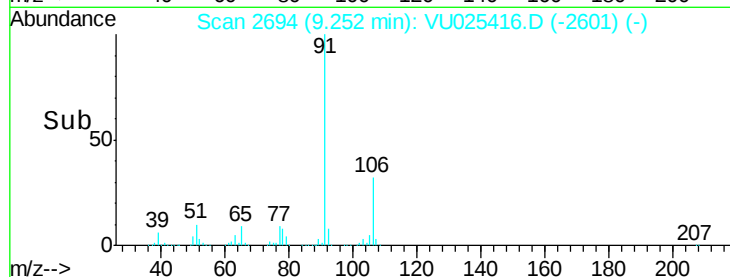
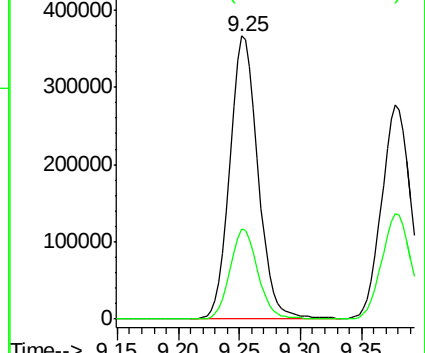
91 100

106 31.6 22.1 41.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 47.349 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025416.D

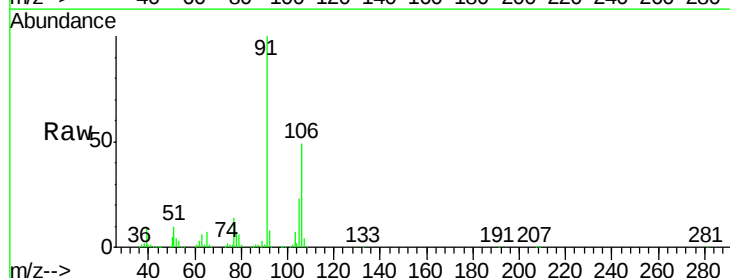
Acq: 16 Jul 2018 10:49

Tgt Ion: 106 Resp: 230400

Ion Ratio Lower Upper

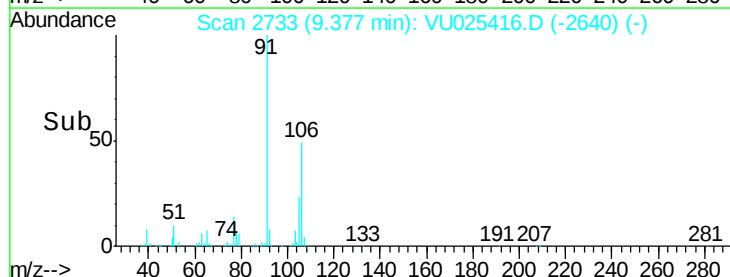
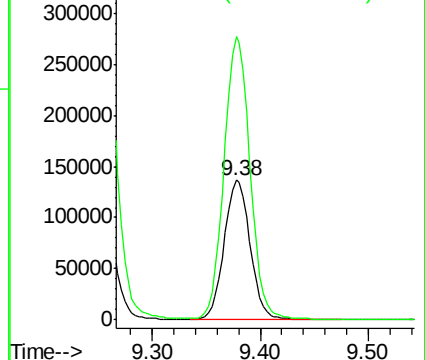
106 100

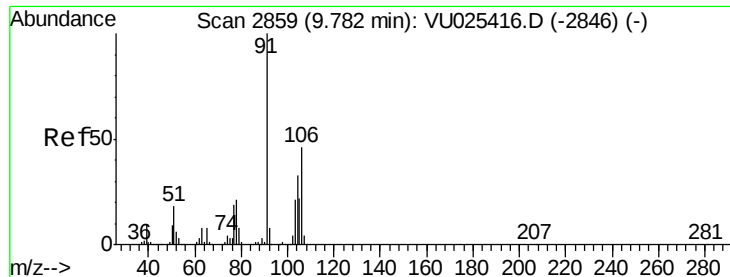
91 202.6 141.8 263.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 47.188 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

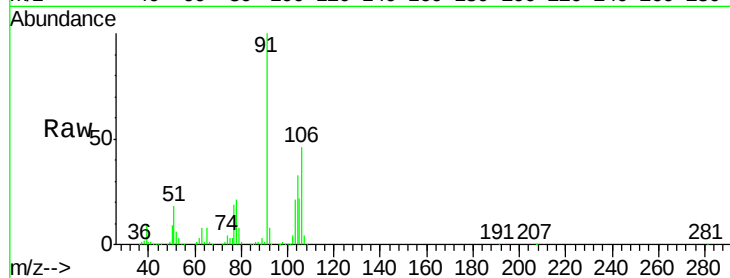
VSTD05053

Tgt Ion:106 Resp: 230138

Ion Ratio Lower Upper

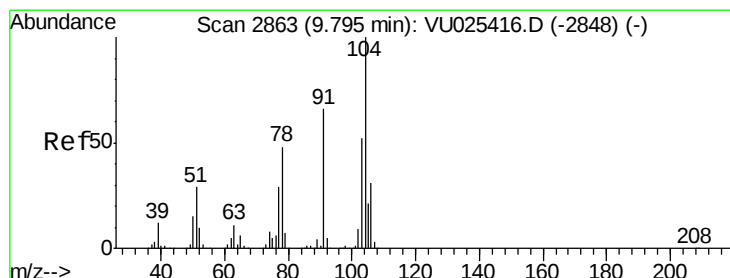
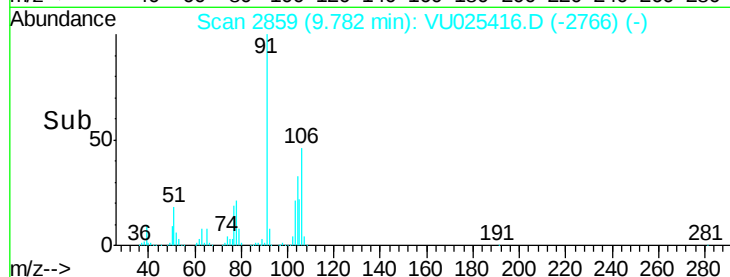
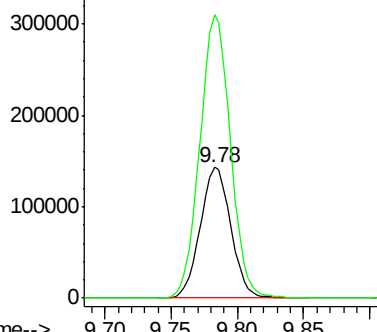
106 100

91 216.2 151.3 281.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 47.440 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU025416.D

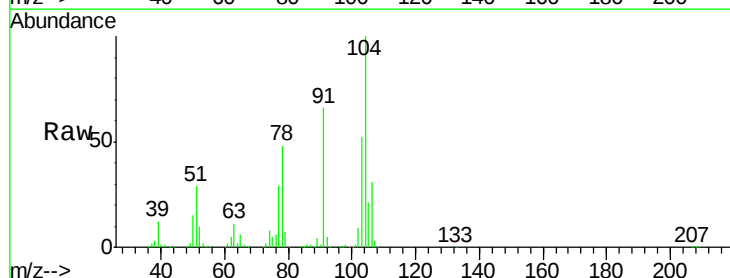
Acq: 16 Jul 2018 10:49

Tgt Ion:104 Resp: 379114

Ion Ratio Lower Upper

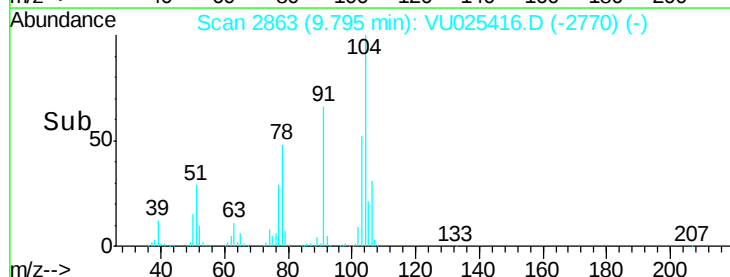
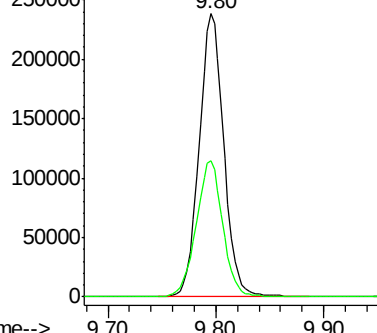
104 100

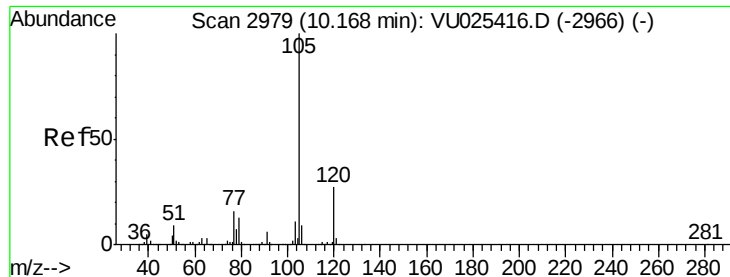
78 48.2 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.122 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

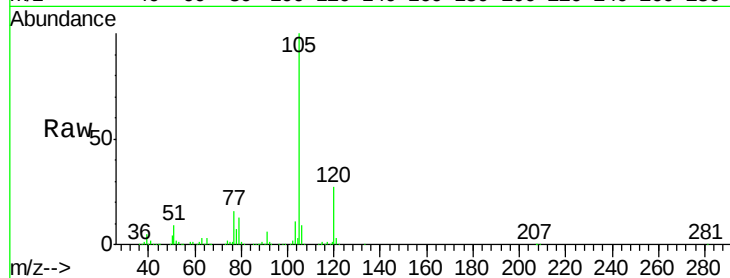
Tgt Ion: 105 Resp: 602714

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

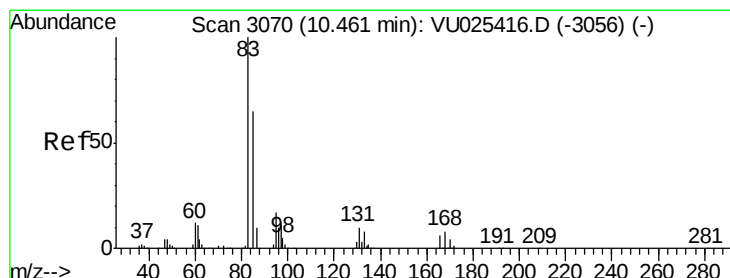
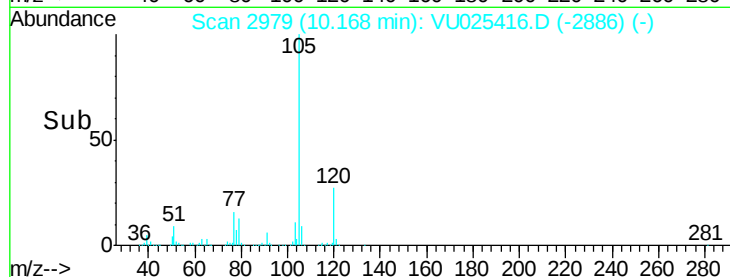
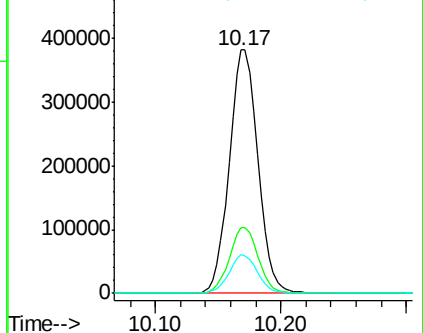
77 15.8 12.6 19.0



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: 50.303 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

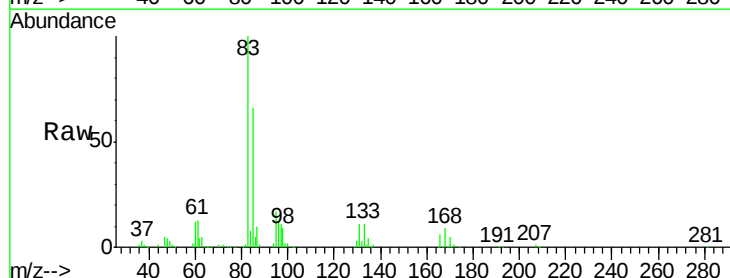
Tgt Ion: 83 Resp: 224125

Ion Ratio Lower Upper

83 100

85 65.6 45.9 85.3

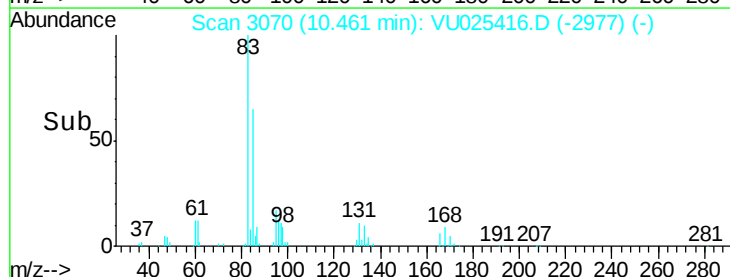
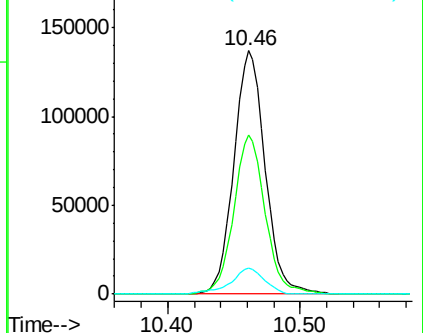
131 10.8 8.6 13.0

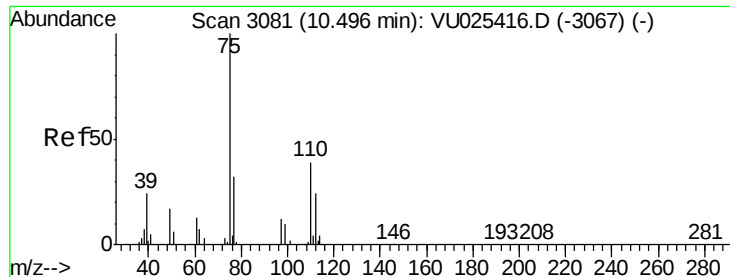


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

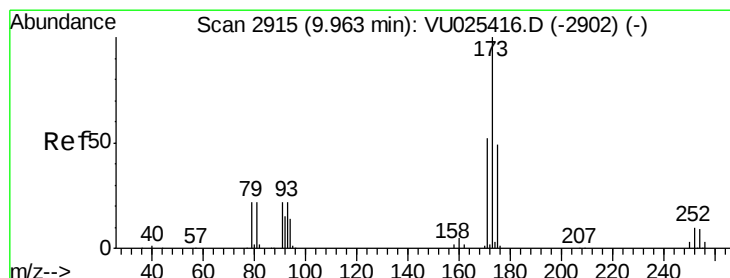
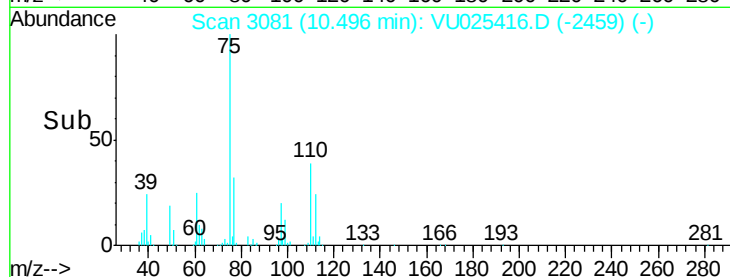
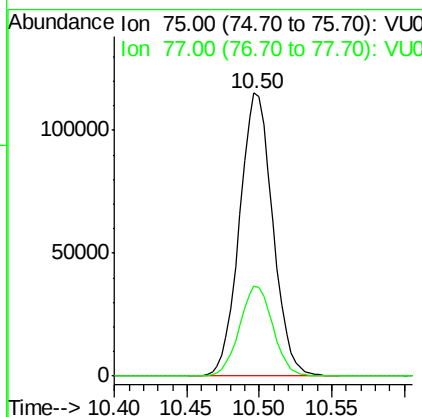
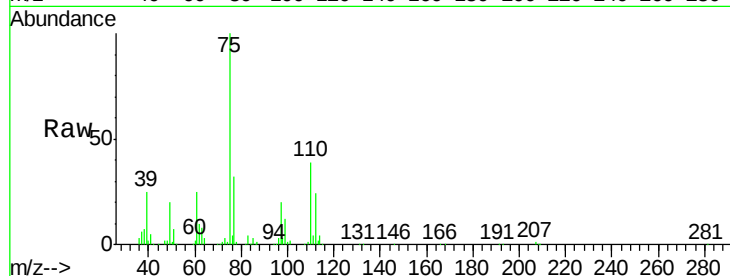




#59
 1,2,3-Trichloropropane
 Concen: 50.668 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

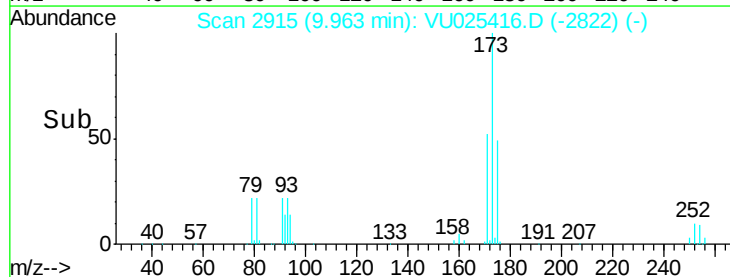
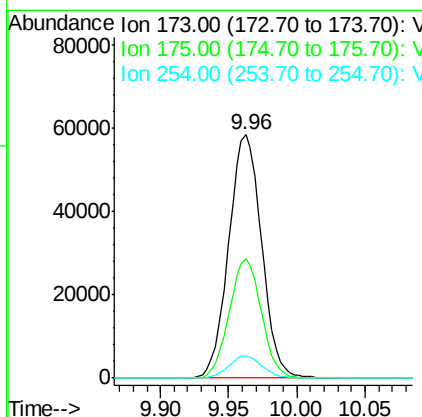
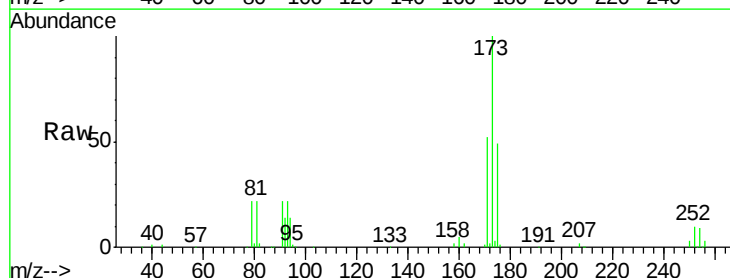
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

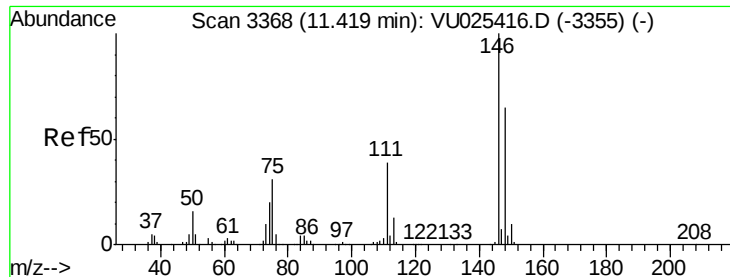
Tgt Ion: 75 Resp: 183884
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.7 38.5



#61
 Bromoform
 Concen: 44.039 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion: 173 Resp: 98067
 Ion Ratio Lower Upper
 173 100
 175 47.7 38.2 57.2
 254 9.2 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 48.059 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

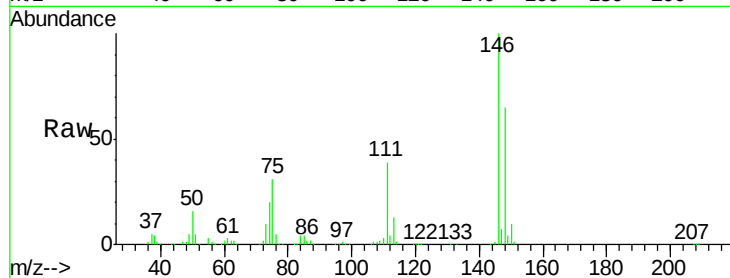
Tgt Ion:146 Resp: 279426

Ion Ratio Lower Upper

146 100

111 39.2 27.4 51.0

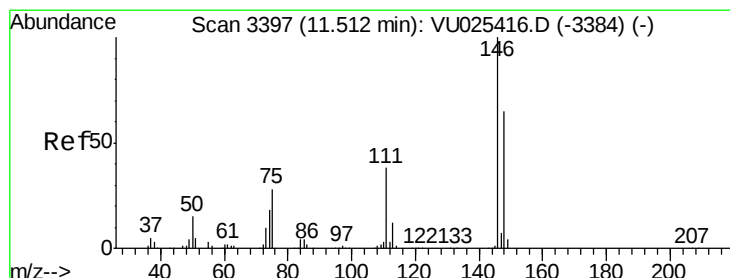
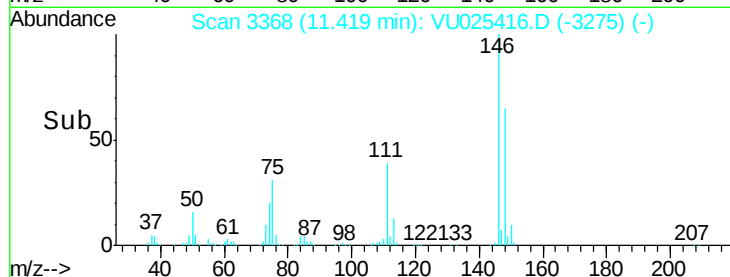
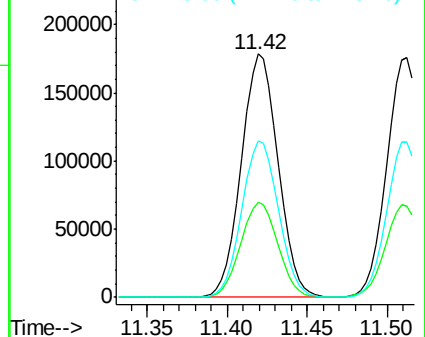
148 64.5 45.1 83.9



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: 47.061 ug/L

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

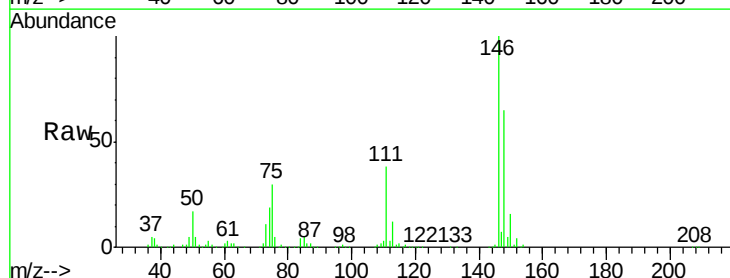
Tgt Ion:146 Resp: 274699

Ion Ratio Lower Upper

146 100

111 38.0 26.6 49.4

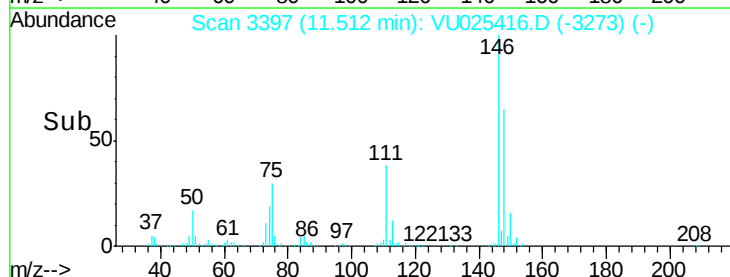
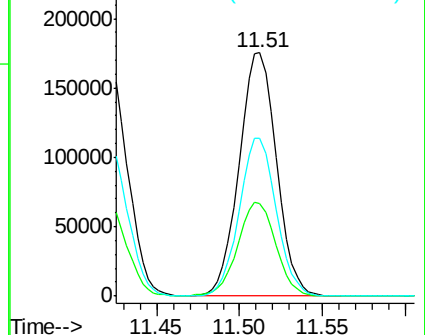
148 65.1 45.6 84.6

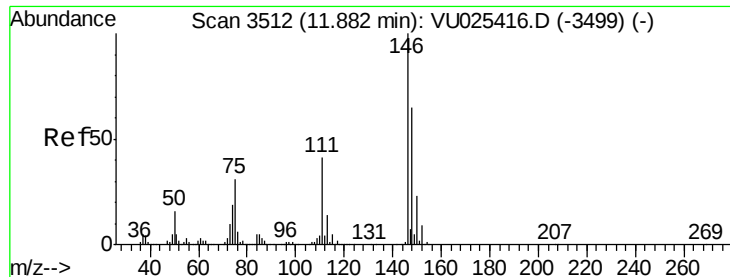


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

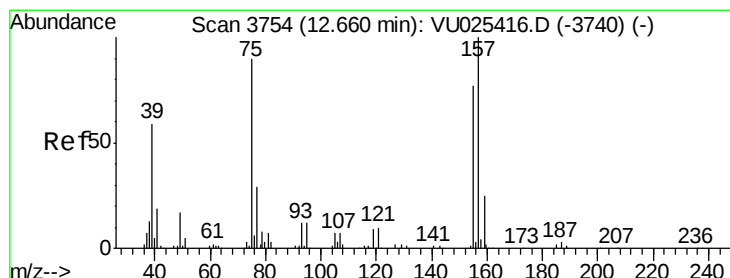
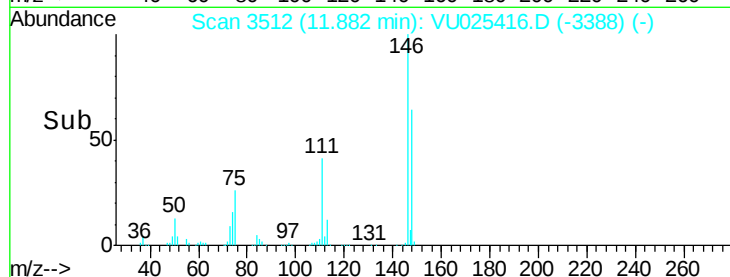
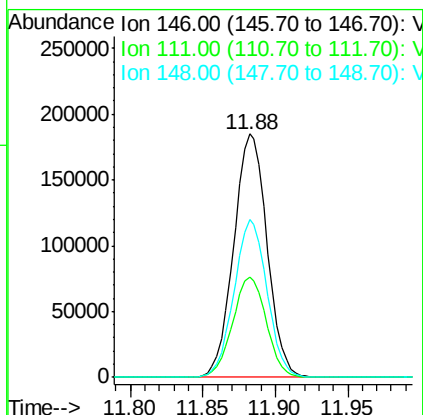
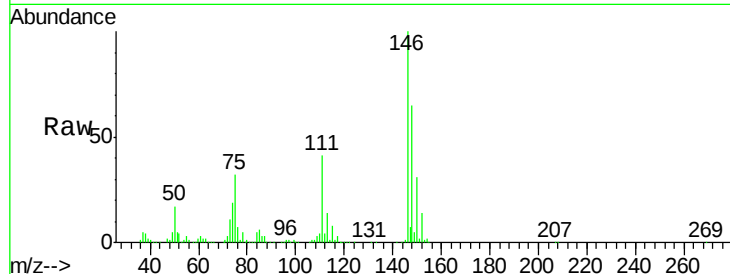




#65
 1,2-Dichlorobenzene
 Concen: 48.123 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

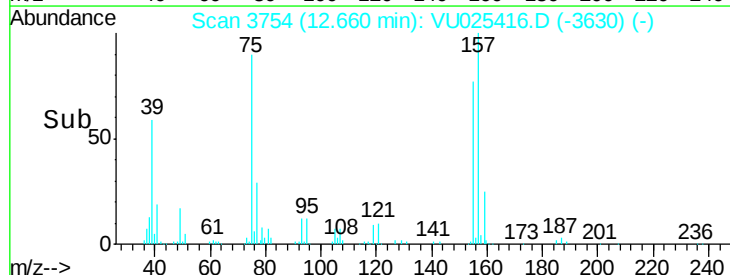
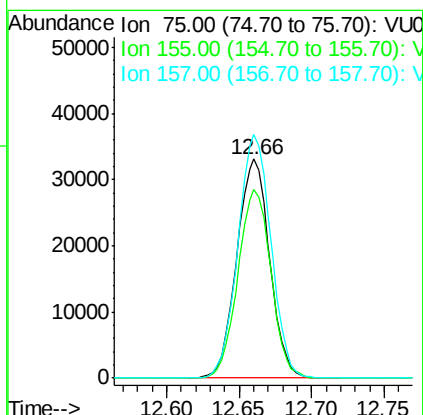
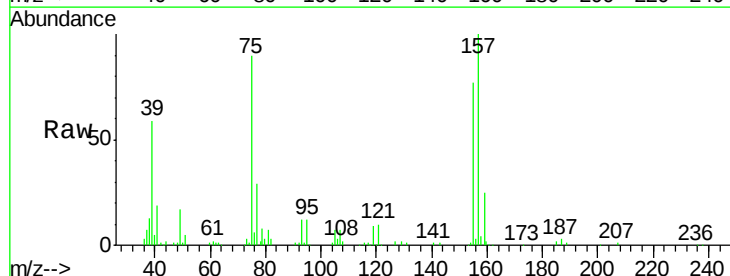
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05053

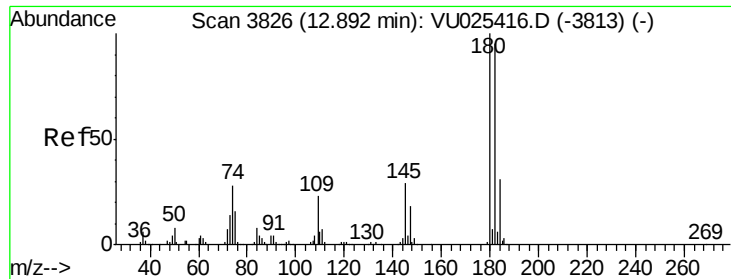
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	33.0	49.4
148	64.7	51.8	77.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.699 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025416.D
 Acq: 16 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.9	68.7	103.1
157	111.2	89.0	133.4





#67

1,3,5-Trichlorobenzene

Concen: 48.779 ug/L

RT: 12.89 min Scan# 3826

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

Tgt Ion:180 Resp: 210603

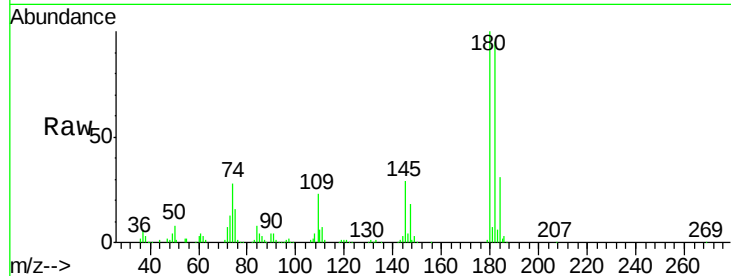
Ion Ratio Lower Upper

180 100

182 95.6 76.5 114.7

184 30.7 24.6 36.8

145 29.1 23.3 34.9

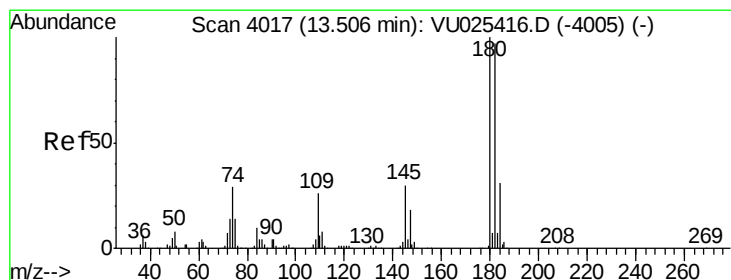
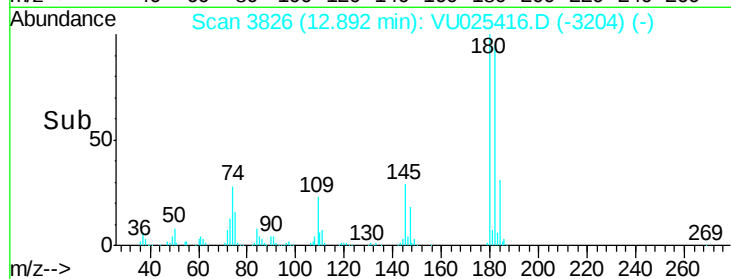
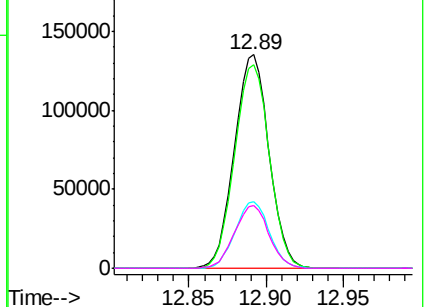


Abundance Ion 180.00 (179.70 to 180.70): V

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: 49.749 ug/L

RT: 13.51 min Scan# 4017

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

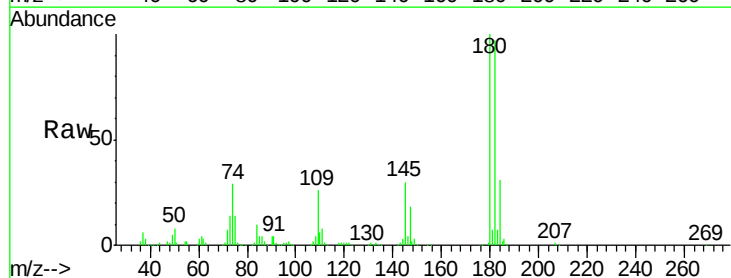
Tgt Ion:180 Resp: 180047

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.6

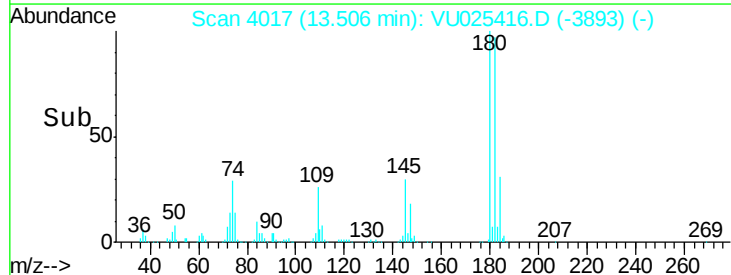
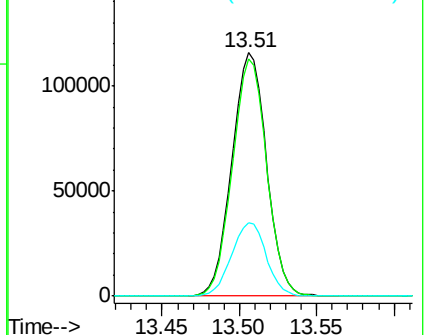
145 30.2 24.2 36.2

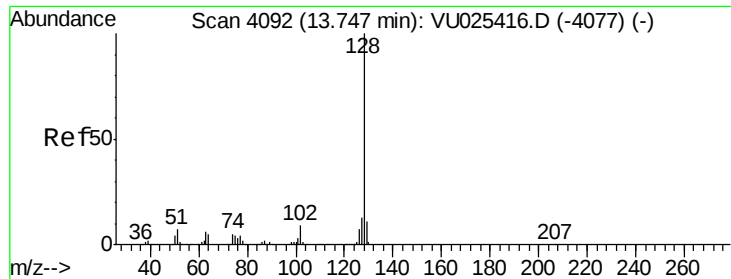


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 52.432 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Instrument :

MSVOA_U

ClientSampleId :

VSTD05053

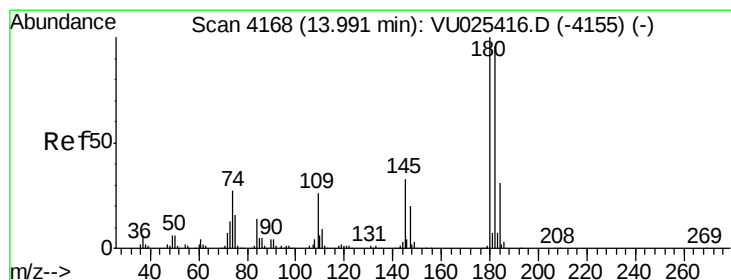
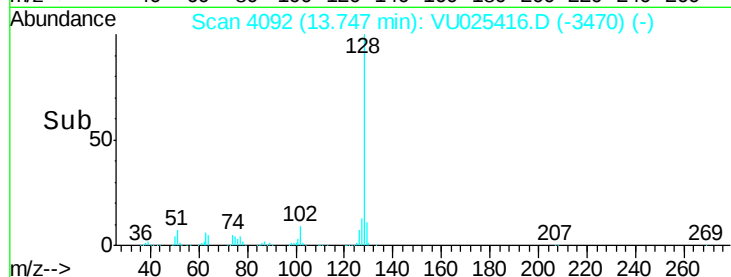
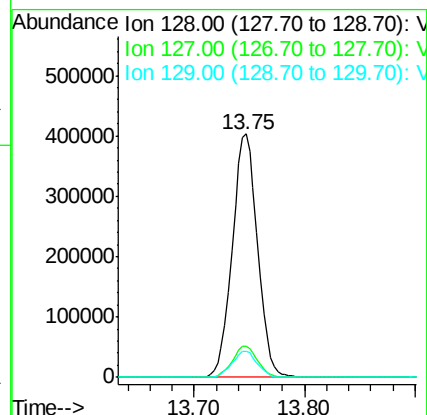
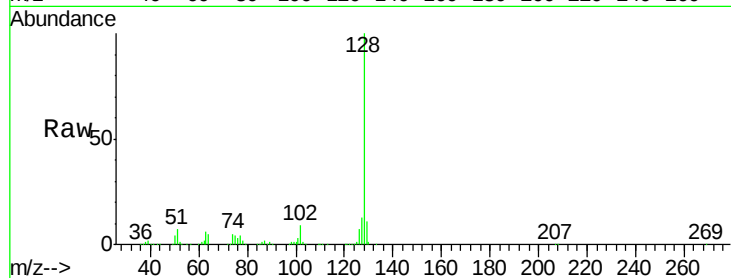
Tgt Ion:128 Resp: 640797

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 10.8 8.6 13.0



#70

1,2,3-Trichlorobenzene

Concen: 49.977 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025416.D

Acq: 16 Jul 2018 10:49

Tgt Ion:180 Resp: 195436

Ion Ratio Lower Upper

180 100

182 95.3 76.2 114.4

145 31.8 25.4 38.2

