

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062218\
 Data File : VU024828.D
 Acq On : 22 Jun 2018 10:57
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Quant Time: Jun 23 01:08:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 20 03:38:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	321908	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	298747	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	155687	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	78208	42.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.88%
7) Chloroethane-d5	1.68	69	66826	47.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.28%
11) 1,1-Dichloroethene-d2	2.28	63	173080	47.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.02%
21) 2-Butanone-d5	4.18	46	144380	92.83	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.83%
24) Chloroform-d	4.65	84	183384	49.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.31	65	126489	54.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.66%
32) Benzene-d6	5.35	84	357824	49.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.38%
36) 1,2-Dichloropropane-d6	6.33	67	118917	49.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.56%
41) Toluene-d8	7.57	98	354176	48.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.50%
43) trans-1,3-Dichloropropene-	7.85	79	58260	47.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.62%
47) 2-Hexanone-d5	8.31	63	118073	95.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.04%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	172128	48.63	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.26%
64) 1,2-Dichlorobenzene-d4	11.86	152	153491	51.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.18%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	131157	50.371 ug/L	98
3) Chloromethane	1.33	50	109852	46.917 ug/L	100
5) Vinyl chloride	1.40	62	115926	46.219 ug/L	98
6) Bromomethane	1.63	94	62910	53.129 ug/L	96
8) Chloroethane	1.70	64	73197	49.700 ug/L	99
9) Trichlorofluoromethane	1.89	101	186579	50.670 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	105948	50.726 ug/L	99
12) 1,1-Dichloroethene	2.29	96	91115	47.621 ug/L	97
13) Acetone	2.32	43	192116	115.717 ug/L	100
14) Carbon disulfide	2.48	76	268935	42.894 ug/L	99
15) Methyl Acetate	2.62	43	113842	44.742 ug/L	98
16) Methylene chloride	2.70	84	109374	46.485 ug/L	99
17) trans-1,2-Dichloroethene	2.99	96	100558	46.576 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	347832	49.549 ug/L	98
19) 1,1-Dichloroethane	3.45	63	195970	49.310 ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	119238	47.375 ug/L	95
22) 2-Butanone	4.26	43	219557	103.779 ug/L	99

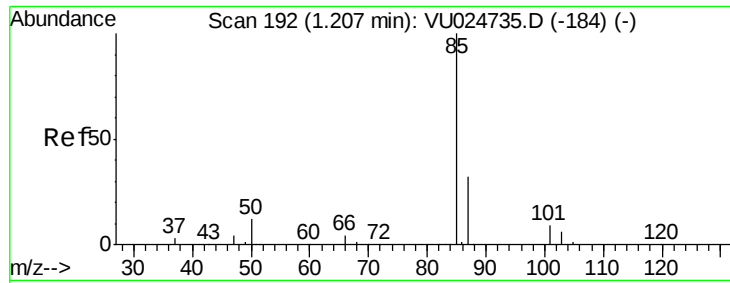
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062218\
 Data File : VU024828.D
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 Quant Title : VOC Analysis
 QLast Update : Wed Jun 20 03:38:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	63080	49.964	ug/L	97
25) Chloroform	4.68	83	213071	51.976	ug/L	98
27) 1,2-Dichloroethane	5.41	62	171419	54.253	ug/L	97
29) Cyclohexane	5.00	56	180924	48.855	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	186717	51.594	ug/L	98
31) Carbon tetrachloride	5.14	117	169019	51.027	ug/L	98
33) Benzene	5.39	78	435665	49.627	ug/L	100
34) Trichloroethene	6.19	95	116727	48.111	ug/L	98
35) Methylcyclohexane	6.42	83	195832	50.209	ug/L	98
37) 1,2-Dichloropropane	6.44	63	121478	49.781	ug/L	100
38) Bromodichloromethane	6.76	83	160752	49.977	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	188981	49.405	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	335499	92.594	ug/L	99
42) Toluene	7.64	91	482824	49.493	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	177030	50.606	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	114453	49.846	ug/L	97
46) Tetrachloroethene	8.23	164	98581	48.268	ug/L	99
48) 2-Hexanone	8.36	43	306258	104.021	ug/L	99
49) Dibromochloromethane	8.48	129	139558	49.605	ug/L	96
50) 1,2-Dibromoethane	8.59	107	122148	48.472	ug/L	99
51) Chlorobenzene	9.12	112	317003	48.490	ug/L	97
52) Ethylbenzene	9.25	91	554308	49.560	ug/L	99
53) m,p-Xylene	9.38	106	213629	49.635	ug/L	98
54) o-xylene	9.78	106	212880	50.135	ug/L	99
55) Styrene	9.80	104	353821	49.005	ug/L	96
56) Isopropylbenzene	10.17	105	570076	50.885	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	193062	48.798	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	151634	48.882	ug/L	99
61) Bromoform	9.96	173	108844	48.204	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	262165	50.117	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	265064	50.237	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	271707	51.902	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	46472	50.725	ug/L	88
67) 1,3,5-Trichlorobenzene	12.89	180	207942	49.719	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	180823	51.984	ug/L	98
69) Naphthalene	13.74	128	529136	55.076	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	192497	54.575	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.371 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampled :

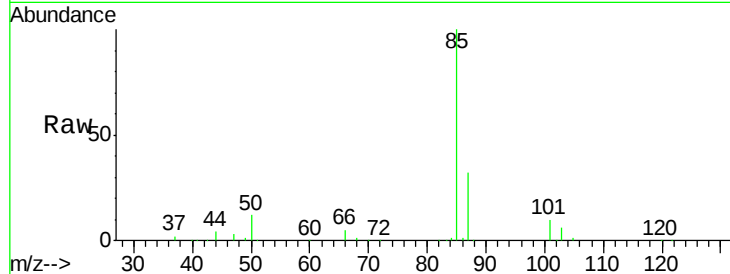
VSTD05052

Tgt Ion: 85 Resp: 131157

Ion Ratio Lower Upper

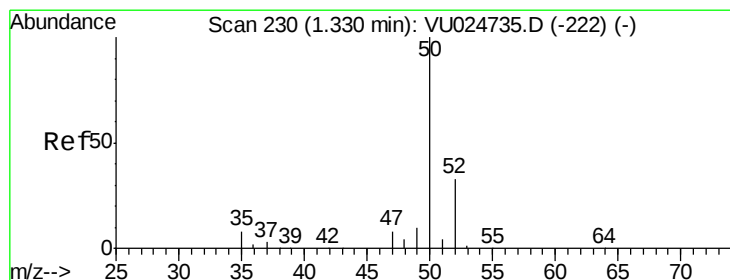
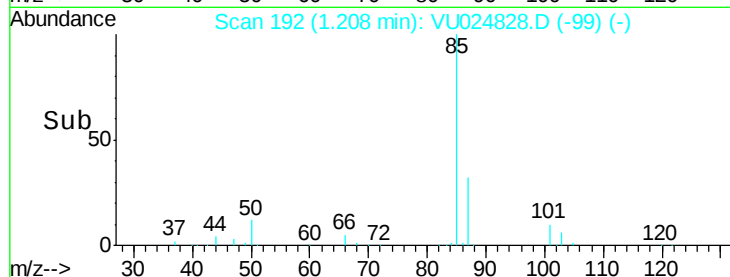
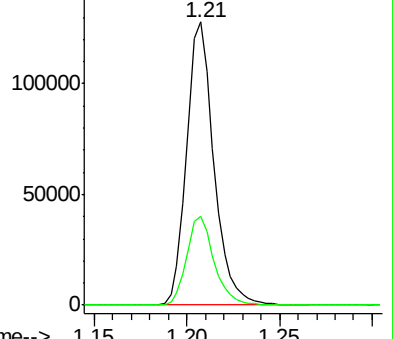
85 100

87 31.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU024828.D (-99) (-)

Ion 87.00 (86.70 to 87.70): VU024828.D (-99) (-)



#3

Chloromethane

Concen: 46.917 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024828.D

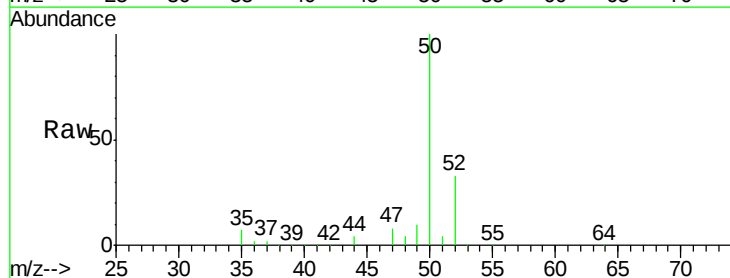
Acq: 22 Jun 2018 10:57

Tgt Ion: 50 Resp: 109852

Ion Ratio Lower Upper

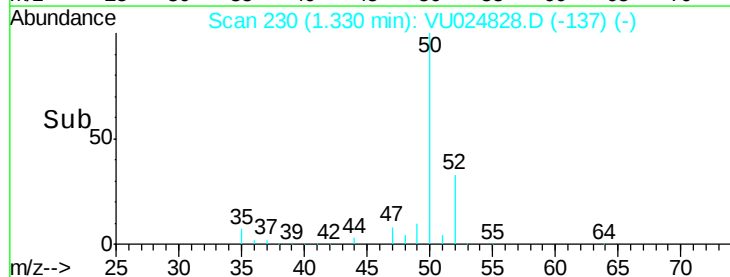
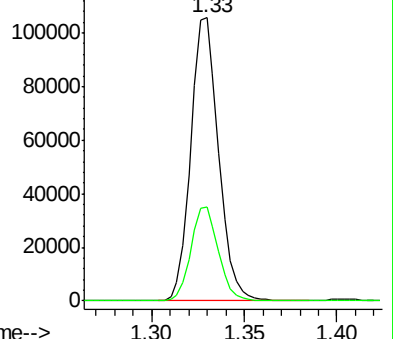
50 100

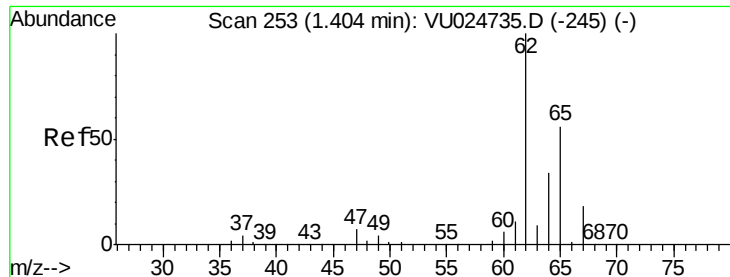
52 33.3 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU024828.D (-137) (-)

Ion 52.00 (51.70 to 52.70): VU024828.D (-137) (-)





#5

Vinyl chloride

Concen: 46.219 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

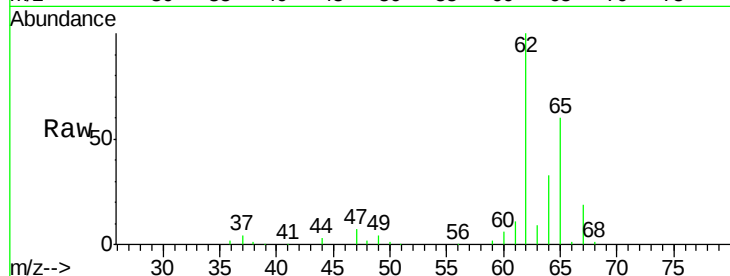
VSTD05052

Tgt Ion: 62 Resp: 115926

Ion Ratio Lower Upper

62 100

64 33.0 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

40000

20000

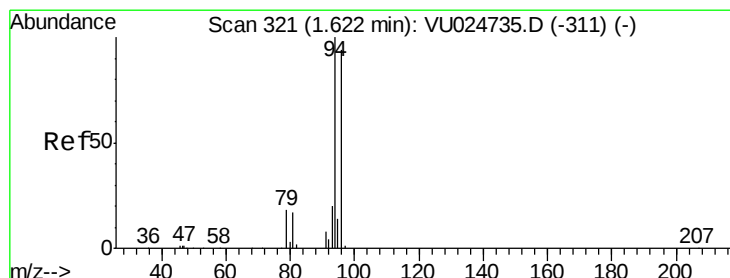
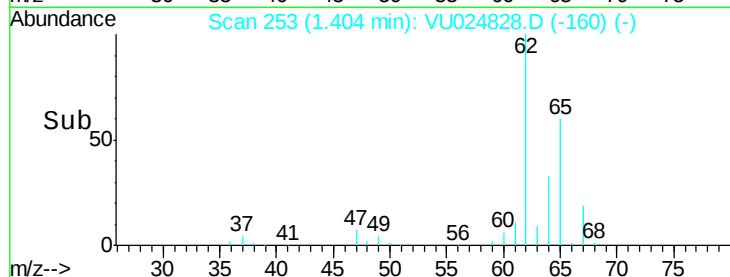
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 53.129 ug/L

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU024828.D

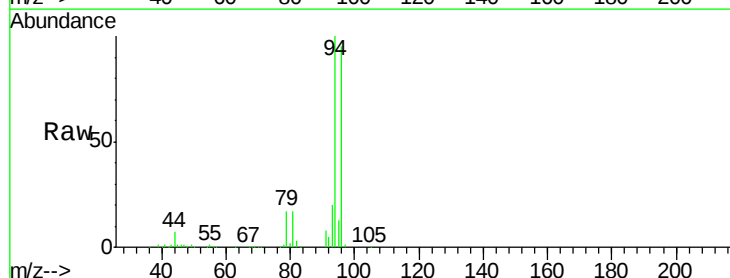
Acq: 22 Jun 2018 10:57

Tgt Ion: 94 Resp: 62910

Ion Ratio Lower Upper

94 100

96 95.0 64.0 119.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

50000

40000

30000

20000

10000

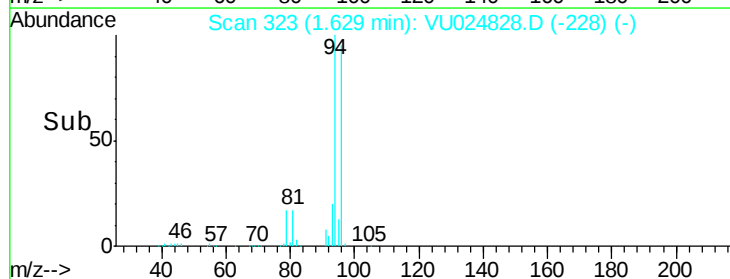
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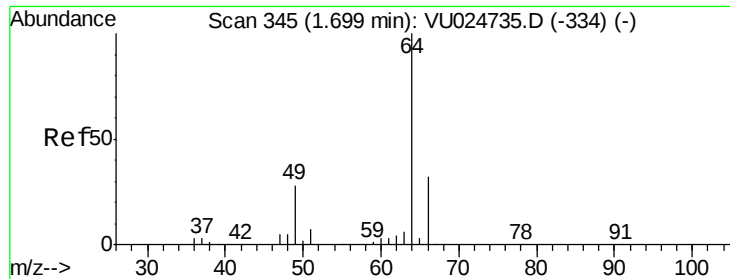
1.60

1.63

1.70

Time-->





#8

Chloroethane

Concen: 49.700 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

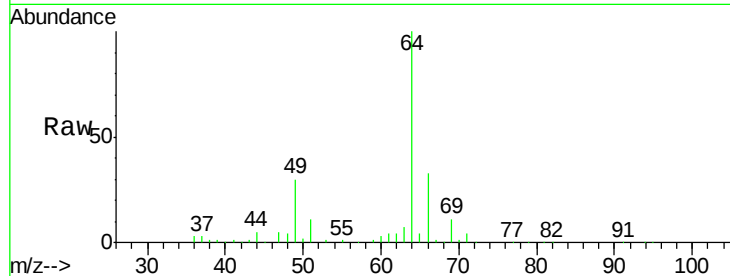
VSTD05052

Tgt Ion: 64 Resp: 73197

Ion Ratio Lower Upper

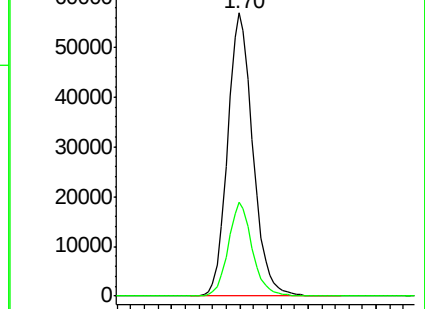
64 100

66 33.0 22.7 42.3

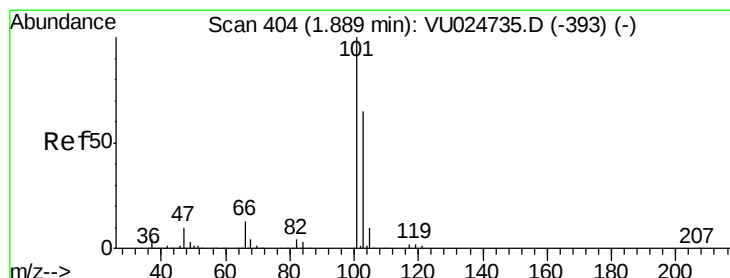
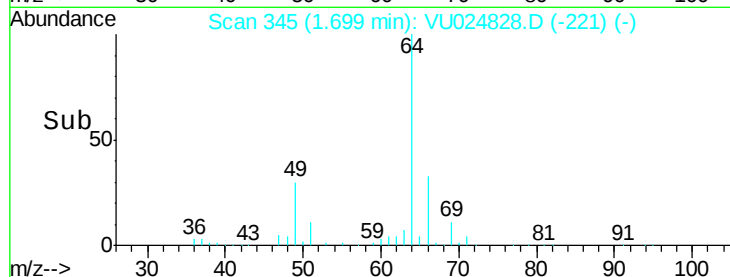


Abundance Ion 64.00 (63.70 to 64.70): VU024828.D (-221) (-)

Ion 66.00 (65.70 to 66.70): VU024828.D (-221) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 50.670 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU024828.D

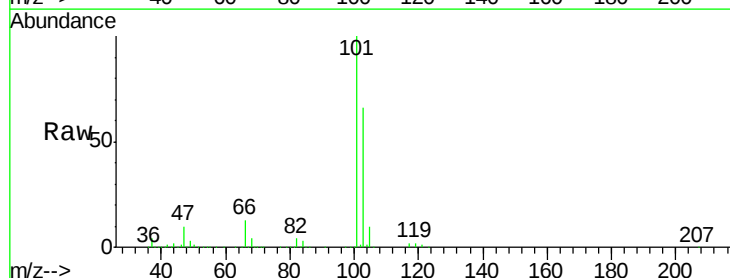
Acq: 22 Jun 2018 10:57

Tgt Ion: 101 Resp: 186579

Ion Ratio Lower Upper

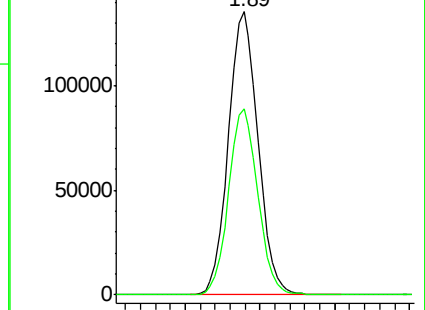
101 100

103 65.0 51.8 77.6

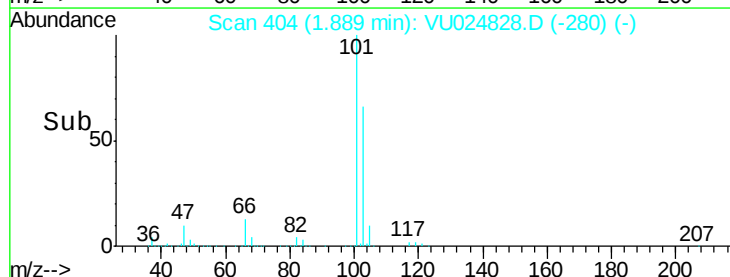


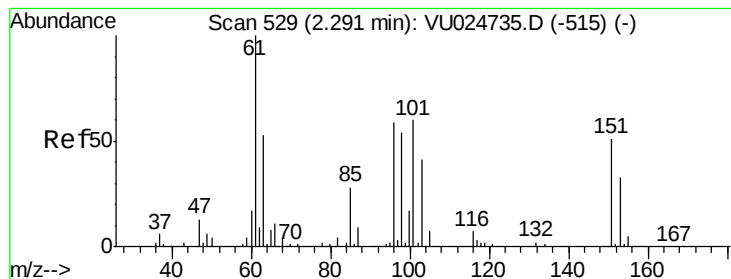
Abundance Ion 101.00 (100.70 to 101.70): VU024828.D (-280) (-)

Ion 103.00 (102.70 to 103.70): VU024828.D (-280) (-)



Time-->





#10

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

Concen: 50.726 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

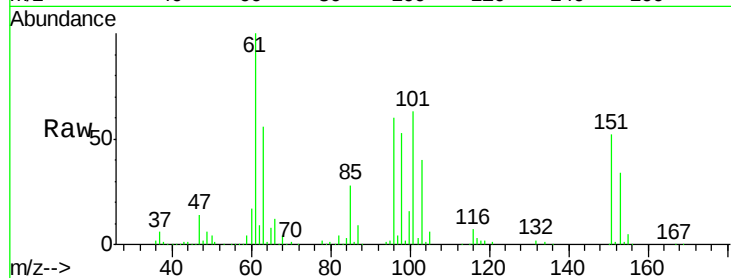
Tgt Ion: 101 Resp: 105948

Ion Ratio Lower Upper

101 100

85 43.1 35.2 52.8

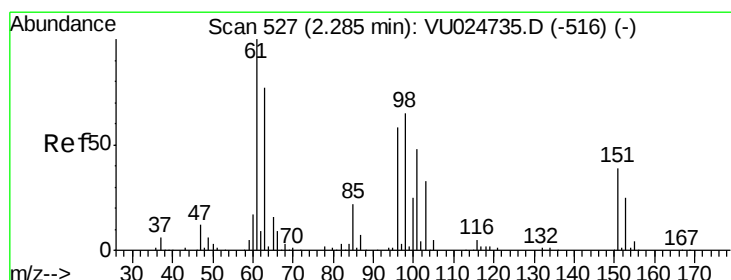
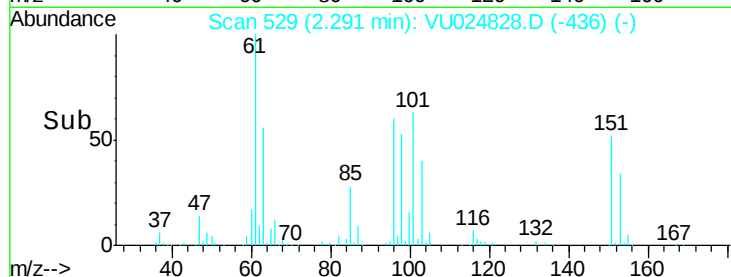
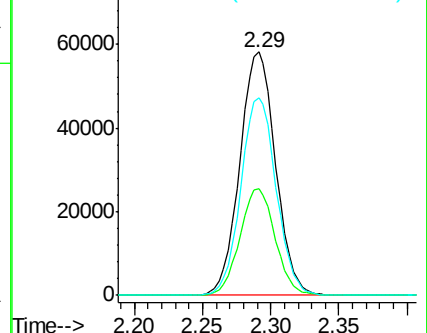
151 80.2 64.6 97.0



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: 47.621 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

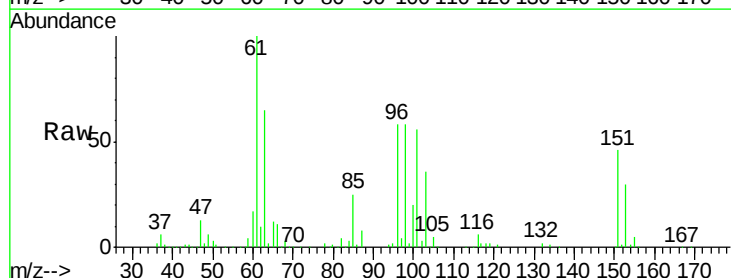
Tgt Ion: 96 Resp: 91115

Ion Ratio Lower Upper

96 100

61 173.1 117.9 218.9

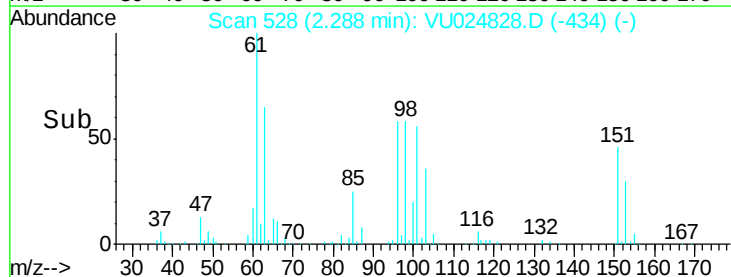
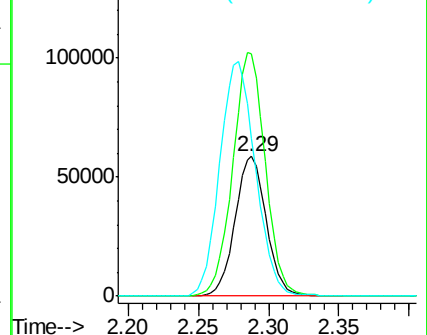
63 112.7 81.4 151.2

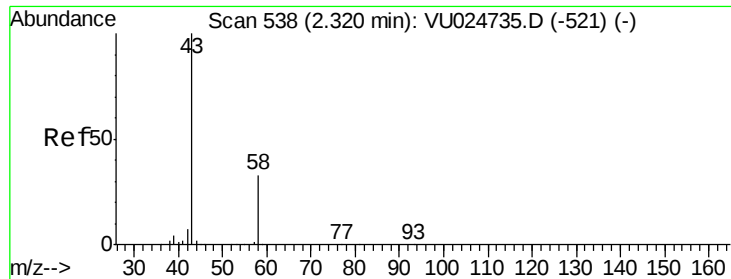


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 115.717 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

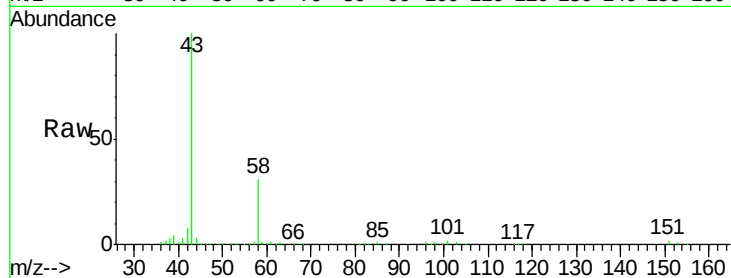
VSTD05052

Tgt Ion: 43 Resp: 192116

Ion Ratio Lower Upper

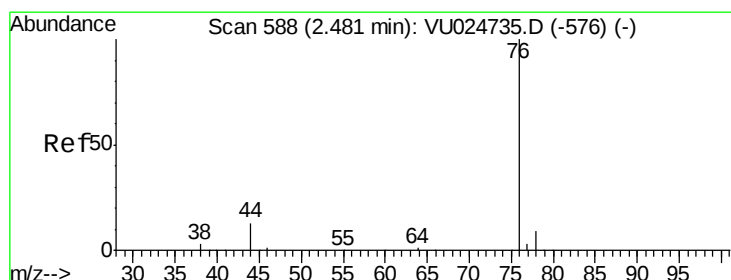
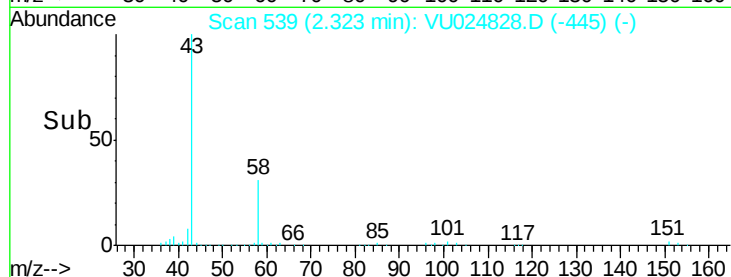
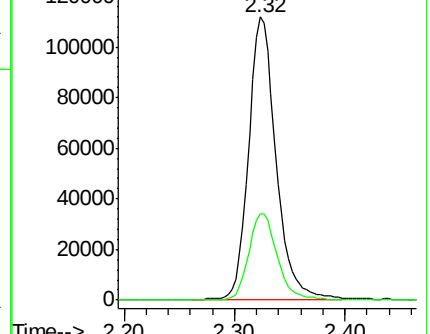
43 100

58 32.0 0.0 64.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 42.894 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU024828.D

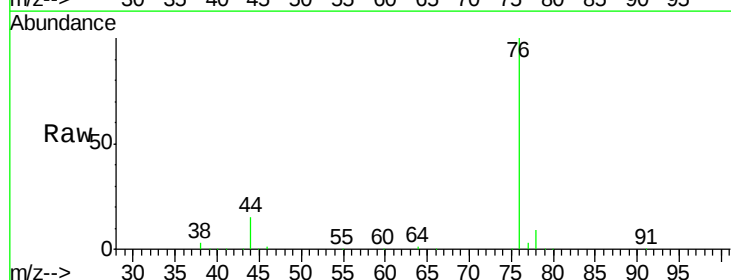
Acq: 22 Jun 2018 10:57

Tgt Ion: 76 Resp: 268935

Ion Ratio Lower Upper

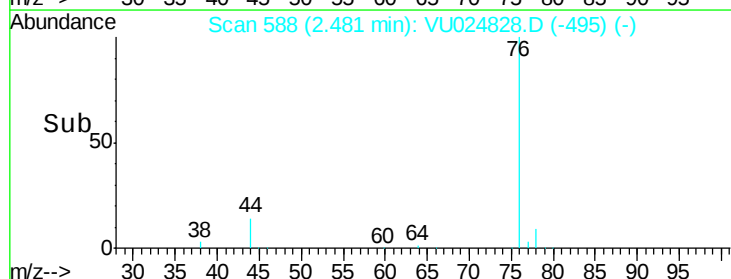
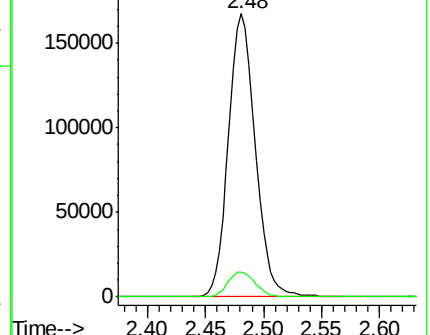
76 100

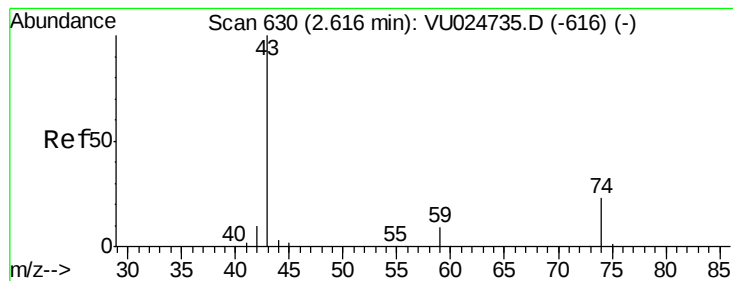
78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 44.742 ug/L

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

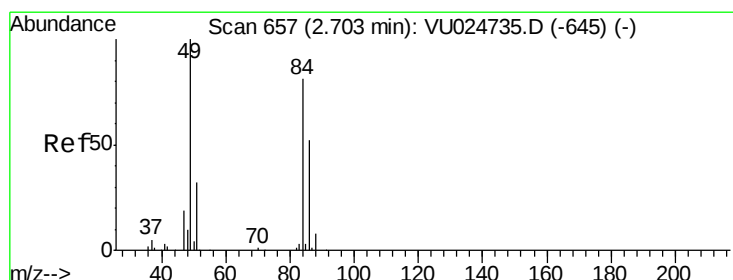
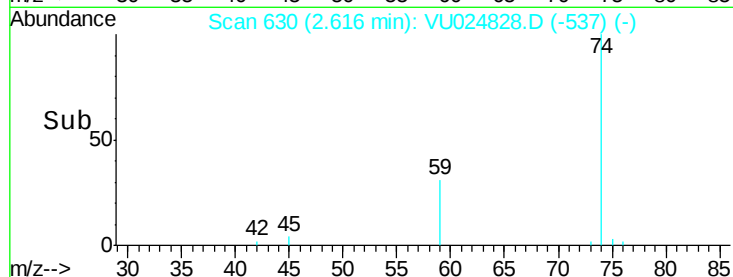
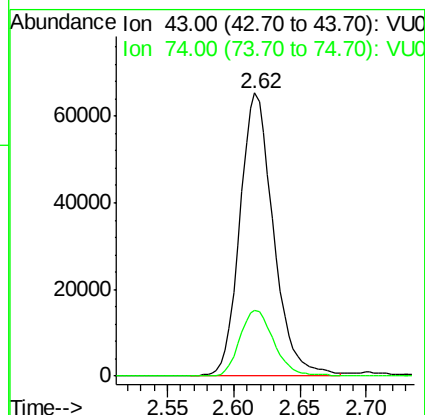
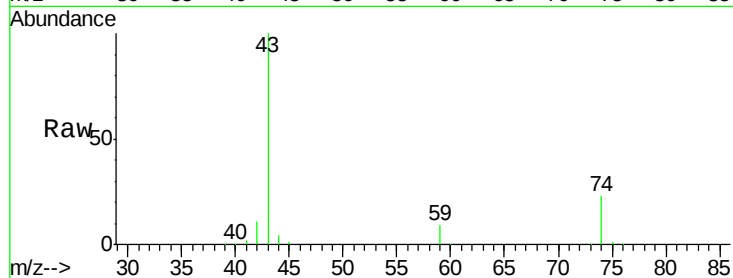
VSTD05052

Tgt Ion: 43 Resp: 113842

Ion Ratio Lower Upper

43 100

74 23.9 18.4 27.6



#16

Methylene chloride

Concen: 46.485 ug/L

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

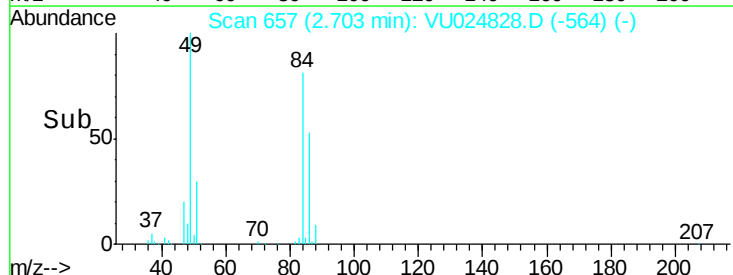
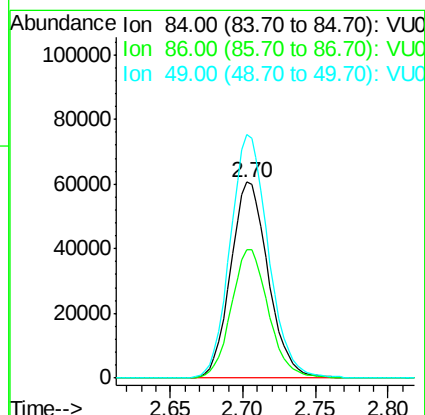
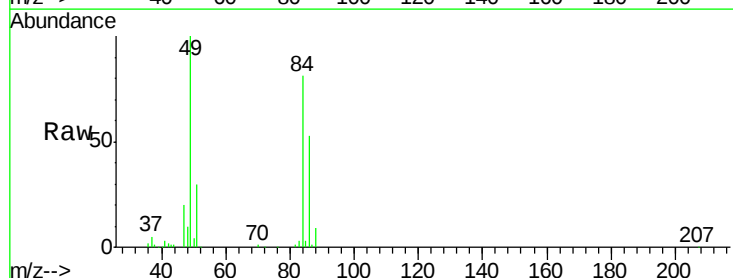
Tgt Ion: 84 Resp: 109374

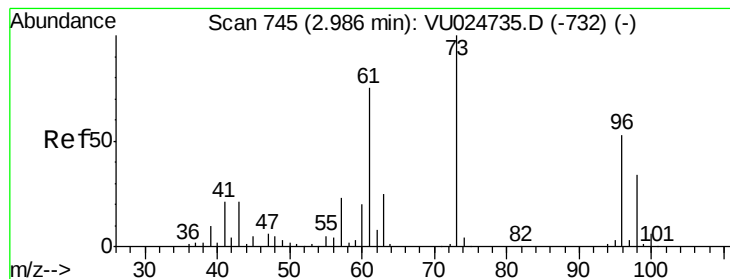
Ion Ratio Lower Upper

84 100

86 65.3 46.1 85.7

49 124.1 85.5 158.9





#17

trans-1,2-Dichloroethene

Concen: 46.576 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

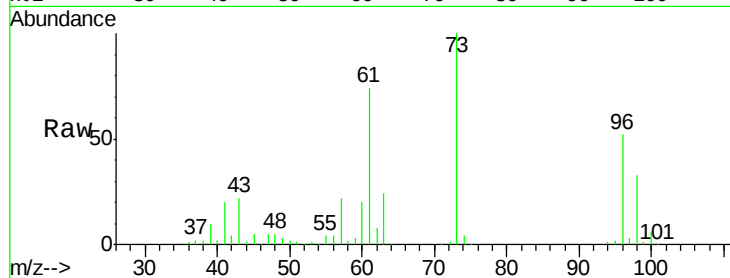
Tgt Ion: 96 Resp: 100558

Ion Ratio Lower Upper

96 100

61 143.4 97.4 180.8

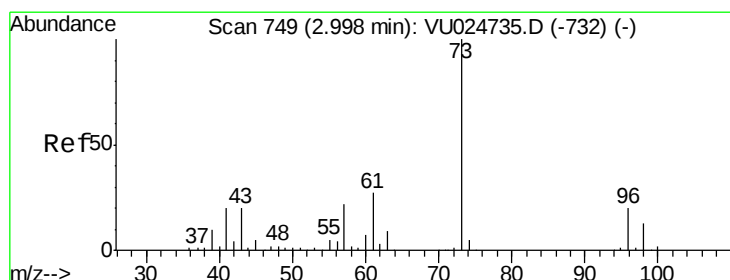
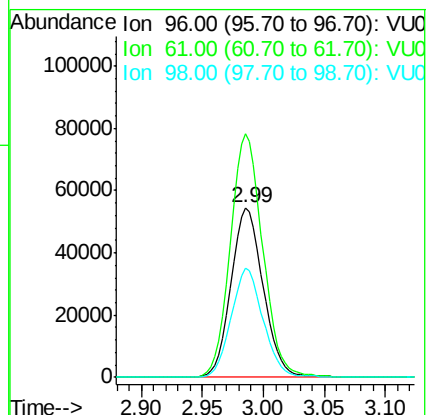
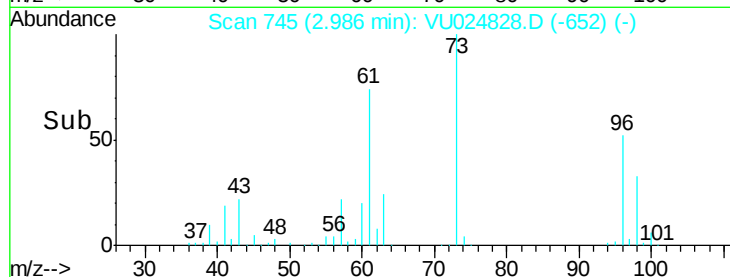
98 64.2 44.9 83.5



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: 49.549 ug/L

RT: 3.00 min Scan# 749

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

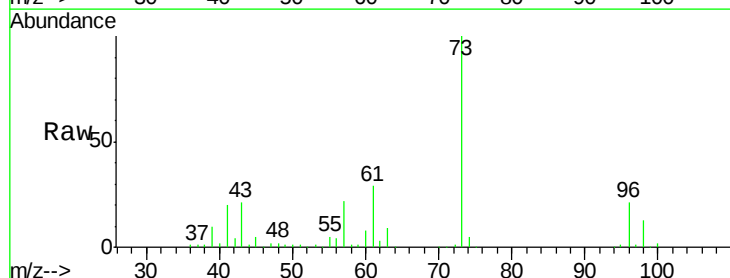
Tgt Ion: 73 Resp: 347832

Ion Ratio Lower Upper

73 100

43 21.3 16.4 24.6

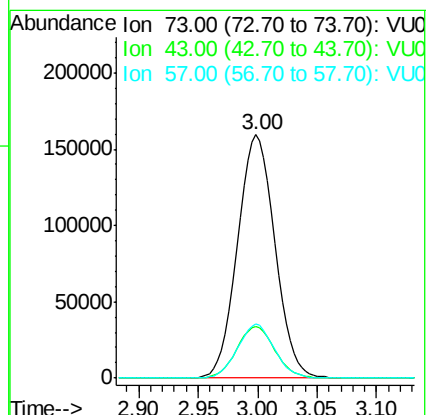
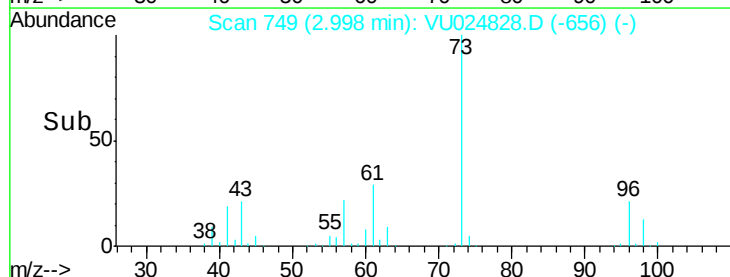
57 21.8 17.9 26.9

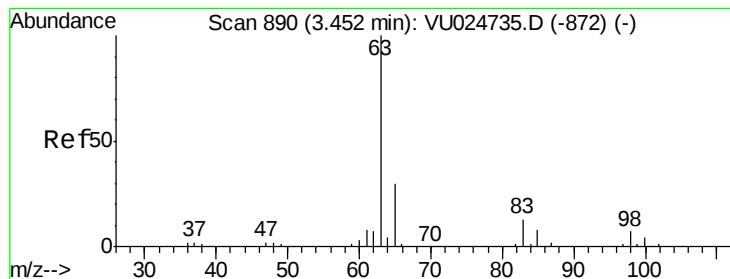


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 49.310 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

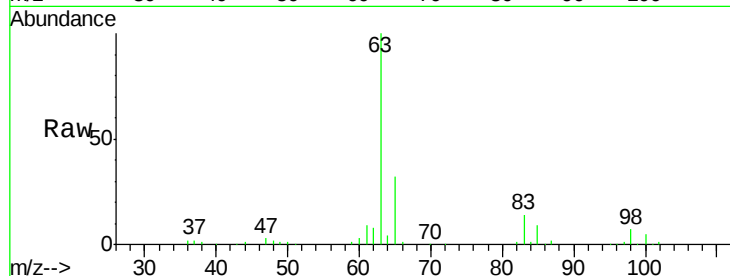
Tgt Ion: 63 Resp: 195970

Ion Ratio Lower Upper

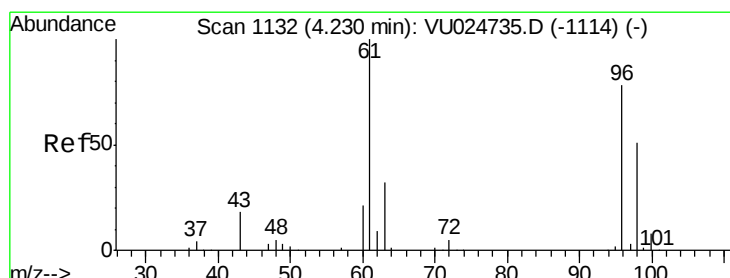
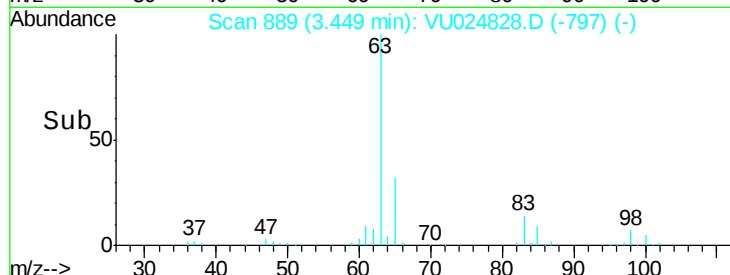
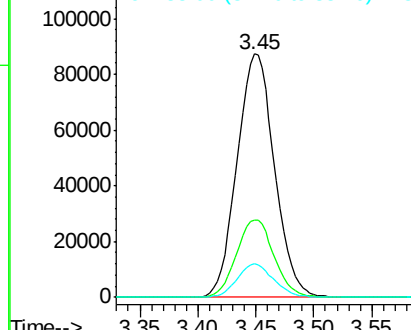
63 100

65 31.7 22.2 41.2

83 13.6 10.1 18.9



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: 47.375 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

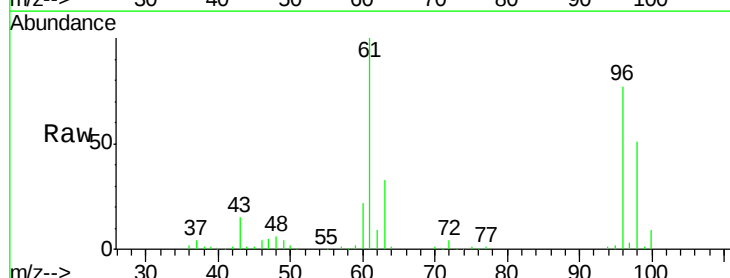
Tgt Ion: 96 Resp: 119238

Ion Ratio Lower Upper

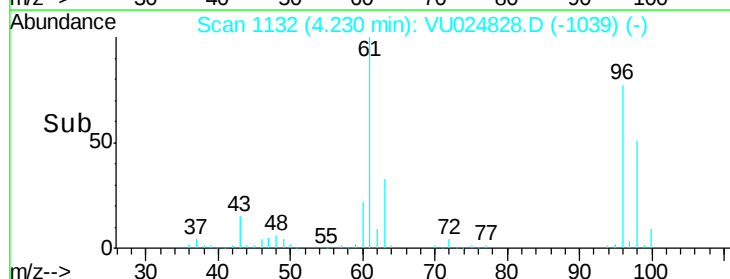
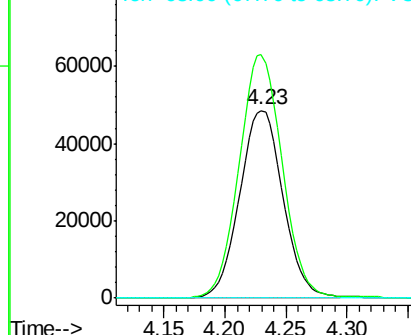
96 100

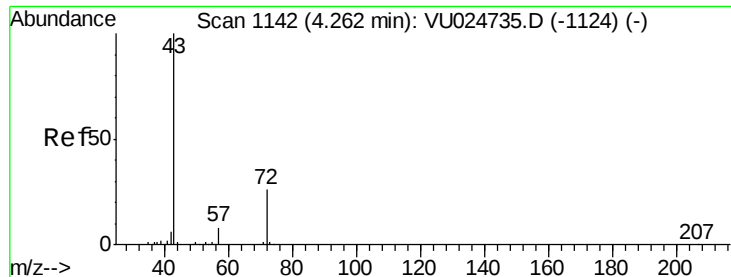
61 129.9 87.1 161.7

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: 103.779 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

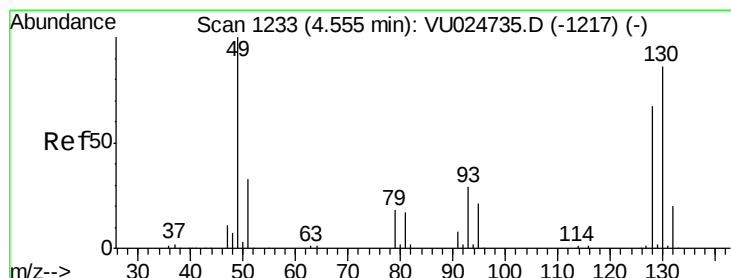
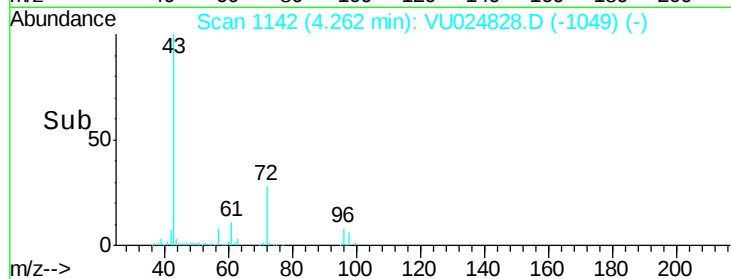
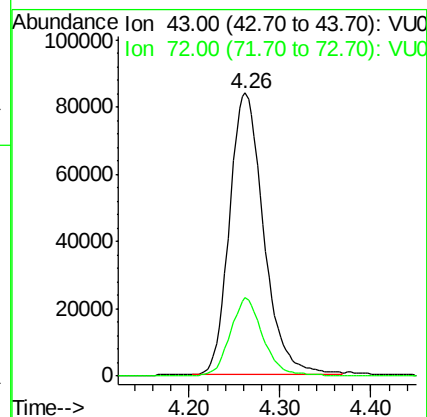
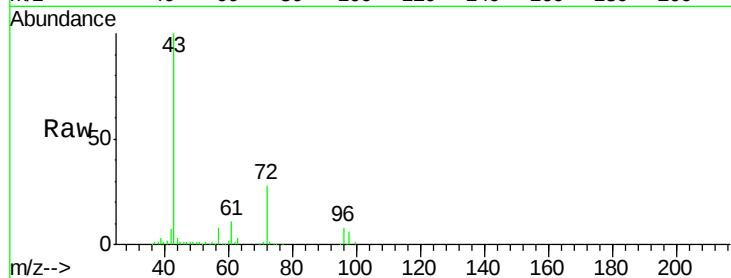
VSTD05052

Tgt Ion: 43 Resp: 219557

Ion Ratio Lower Upper

43 100

72 26.5 13.1 39.3



#23

Bromochloromethane

Concen: 49.964 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Tgt Ion: 128 Resp: 63080

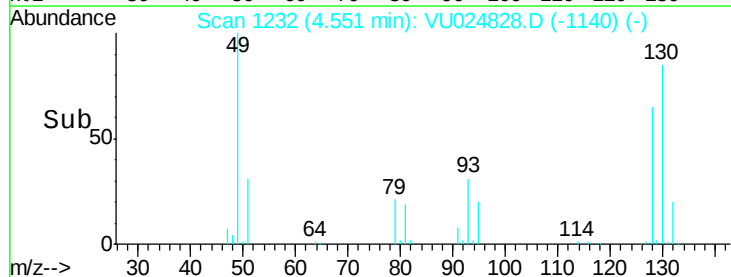
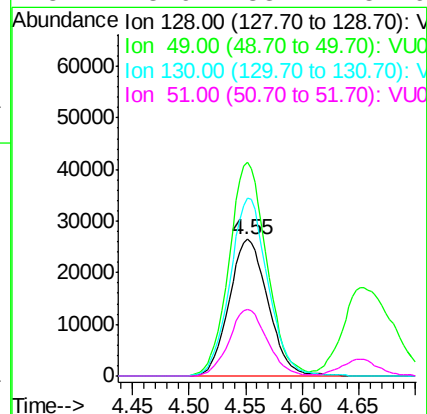
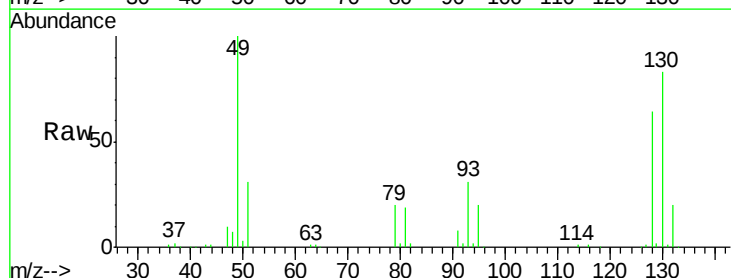
Ion Ratio Lower Upper

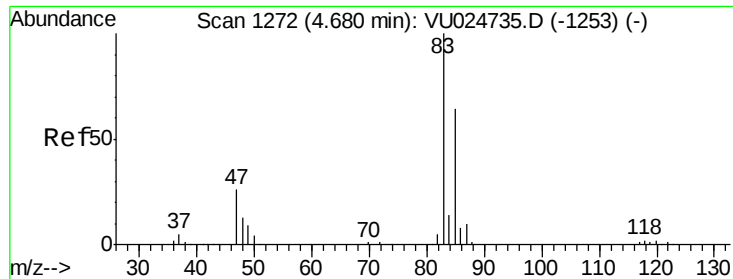
128 100

49 156.6 104.7 194.5

130 130.3 90.2 167.6

51 48.9 38.4 57.6





#25

Chloroform

Concen: 51.976 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

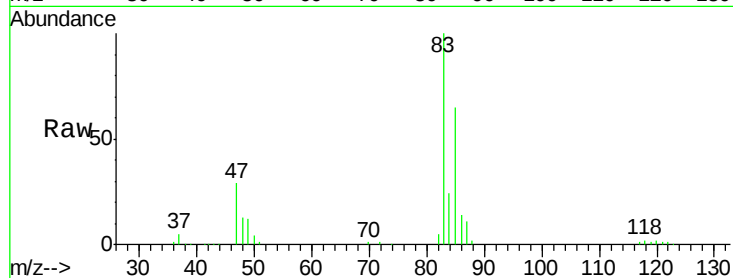
VSTD05052

Tgt Ion: 83 Resp: 213071

Ion Ratio Lower Upper

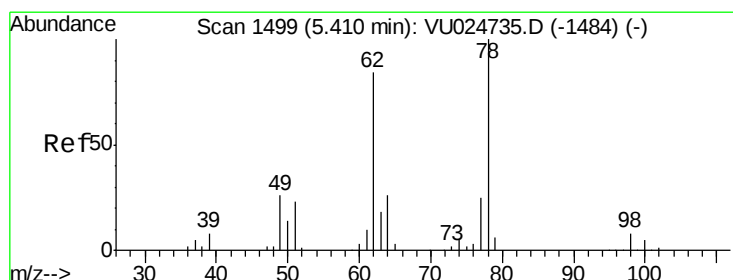
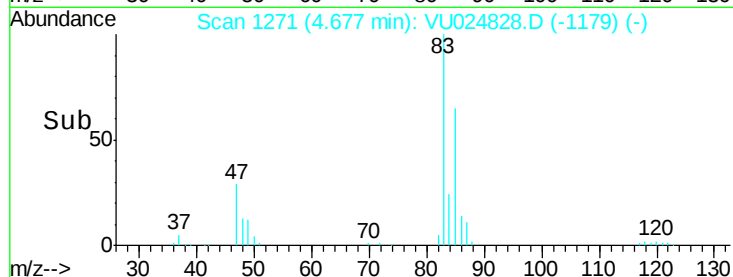
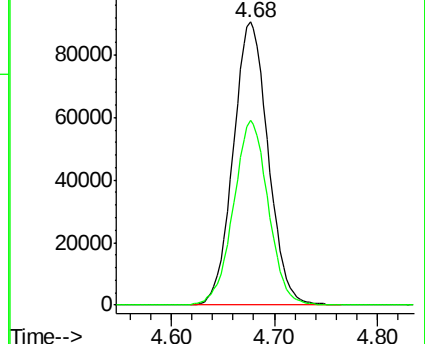
83 100

85 65.1 44.4 82.5



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 54.253 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU024828.D

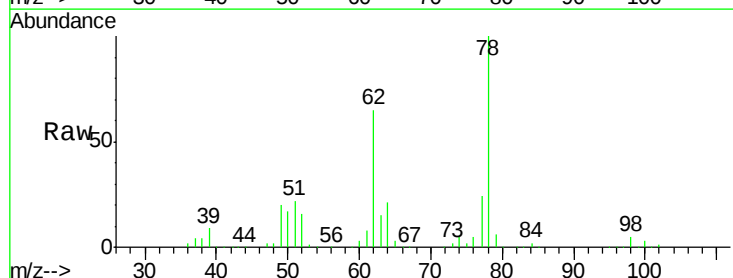
Acq: 22 Jun 2018 10:57

Tgt Ion: 62 Resp: 171419

Ion Ratio Lower Upper

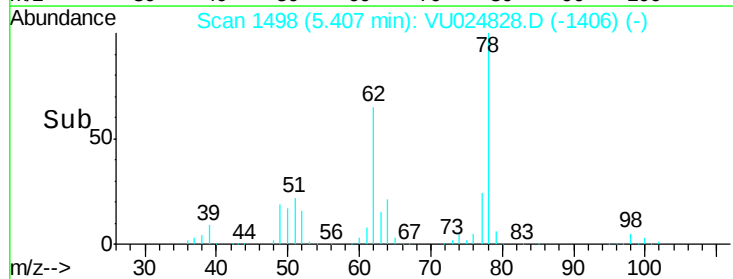
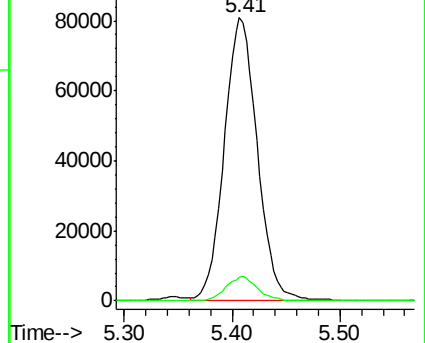
62 100

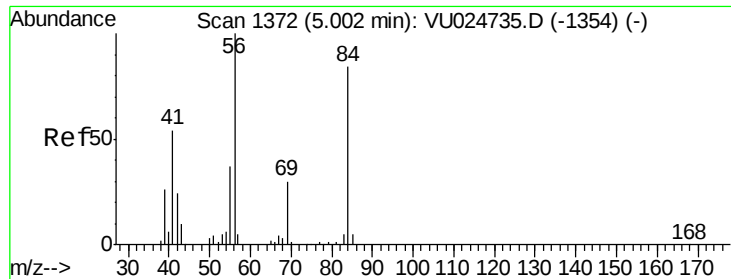
98 8.4 7.4 11.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

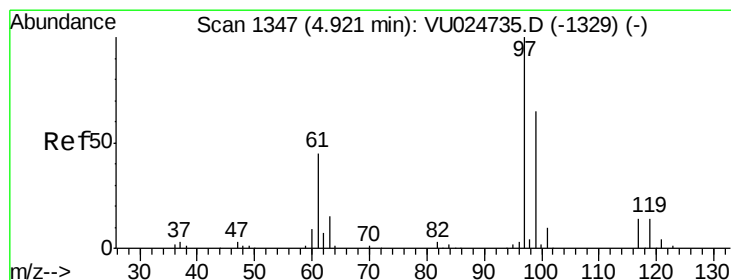
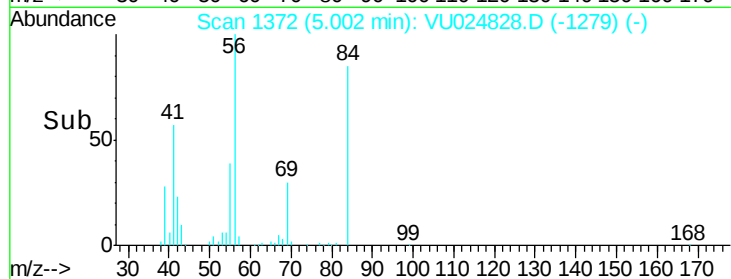
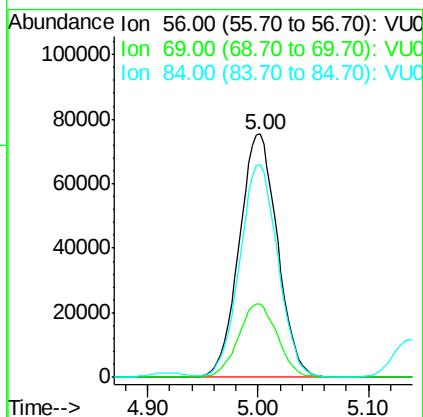
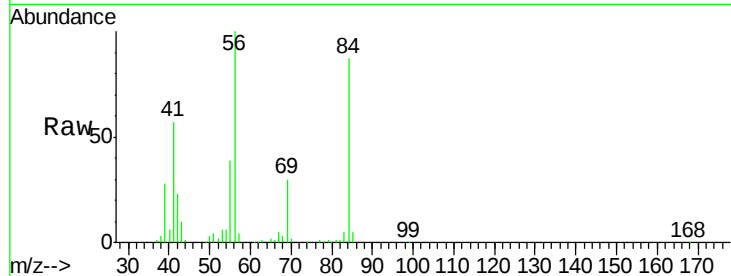




#29
Cyclohexane
Concen: 48.855 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU024828.D
Acq: 22 Jun 2018 10:57

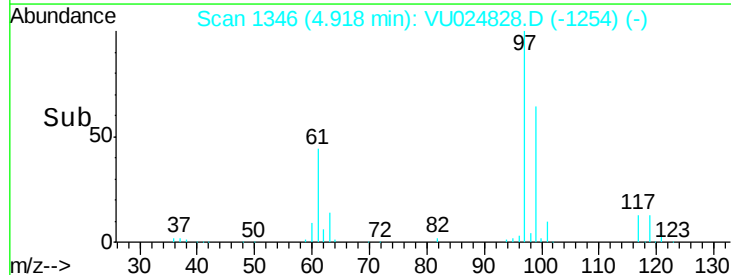
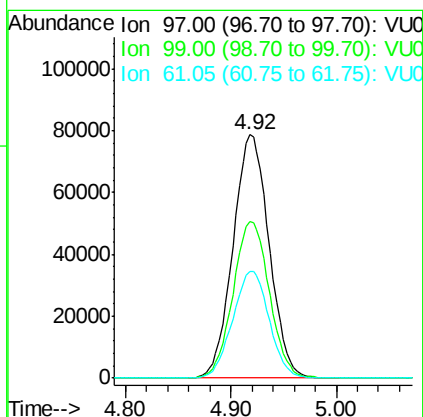
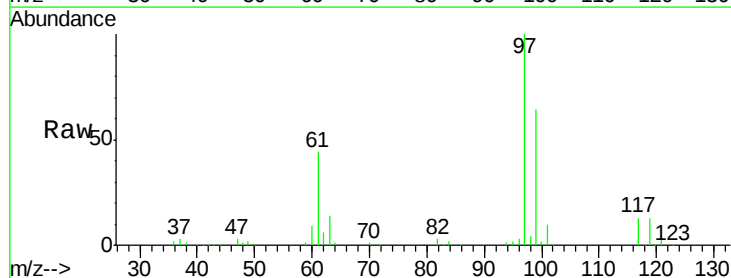
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

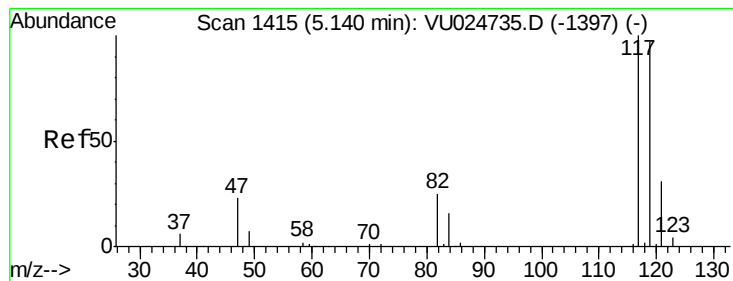
Tgt Ion: 56 Resp: 180924
Ion Ratio Lower Upper
56 100
69 30.8 24.7 37.1
84 87.5 68.8 103.2



#30
1,1,1-Trichloroethane
Concen: 51.594 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU024828.D
Acq: 22 Jun 2018 10:57

Tgt Ion: 97 Resp: 186717
Ion Ratio Lower Upper
97 100
99 64.9 51.4 77.0
61 44.3 33.8 50.8





#31

Carbon tetrachloride

Concen: 51.027 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

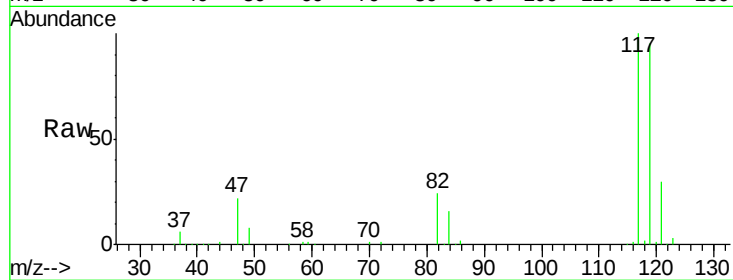
VSTD05052

Tgt Ion:117 Resp: 169019

Ion Ratio Lower Upper

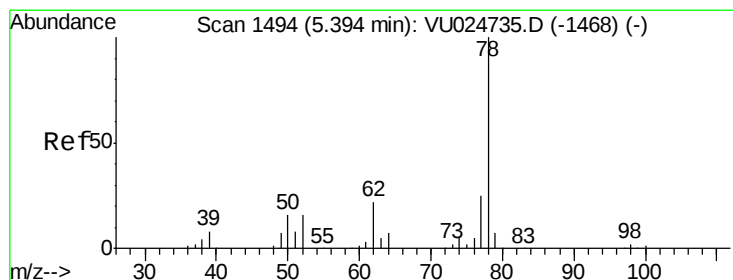
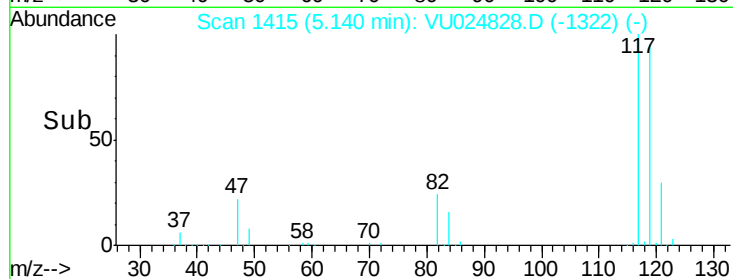
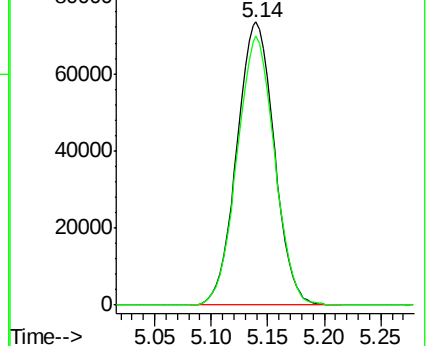
117 100

119 95.1 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.627 ug/L

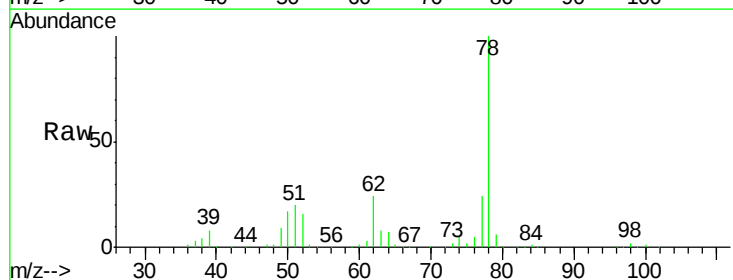
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

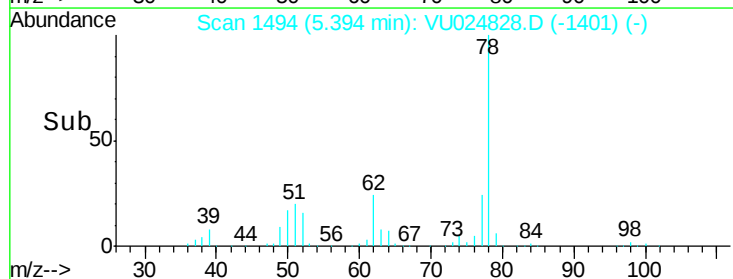
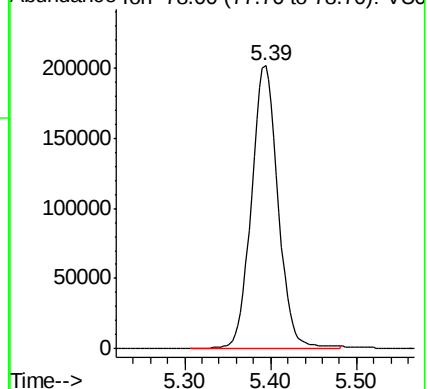
Lab File: VU024828.D

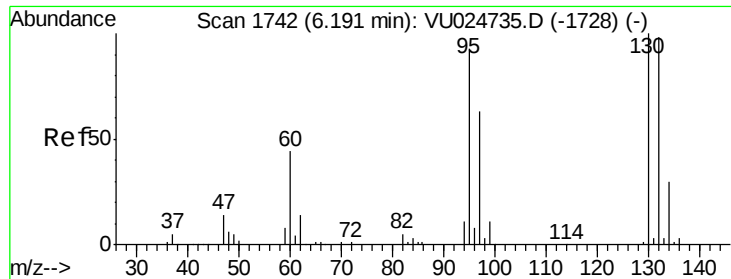
Acq: 22 Jun 2018 10:57

Tgt Ion: 78 Resp: 435665



Abundance Ion 78.00 (77.70 to 78.70): VU0

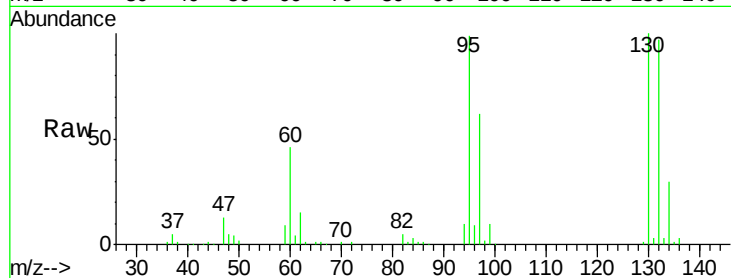




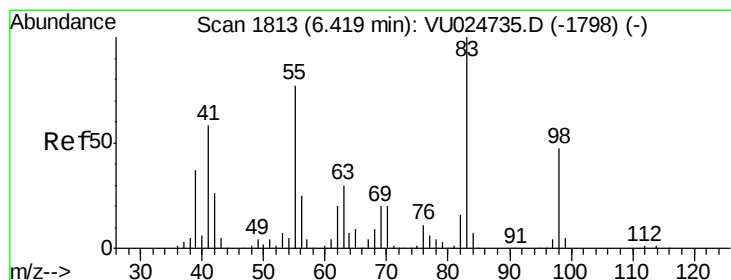
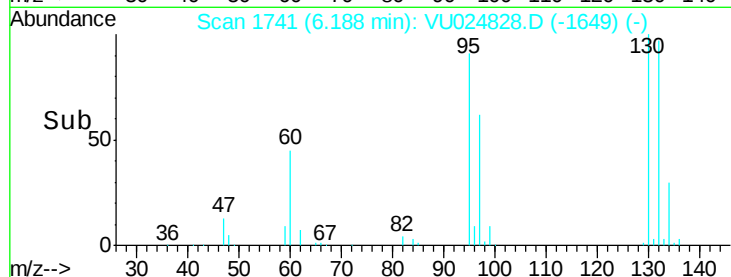
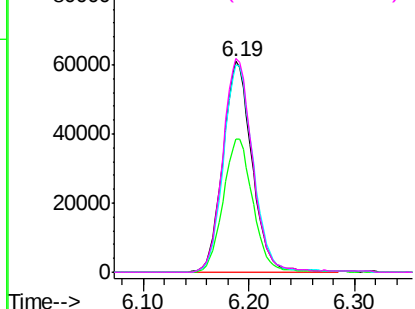
#34
 Trichloroethene
 Concen: 48.111 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion: 95 Resp: 116727
 Ion Ratio Lower Upper
 95 100
 97 63.2 44.8 83.2
 132 98.5 70.4 130.8
 130 101.2 72.6 134.8

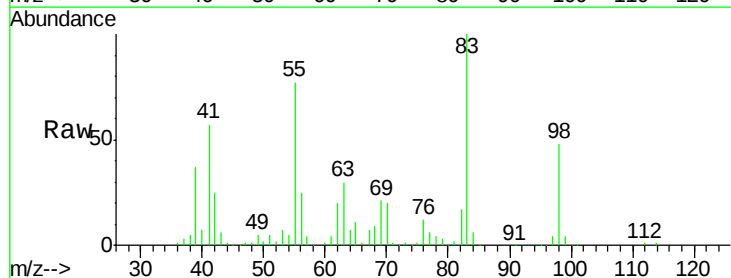


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

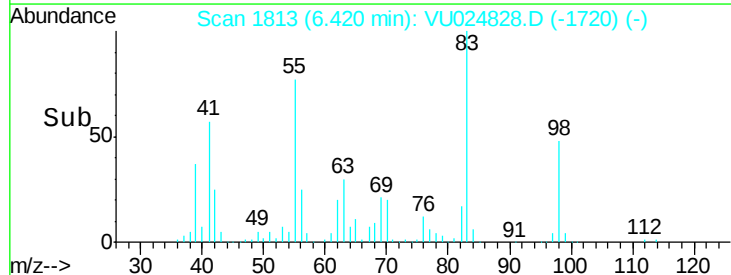
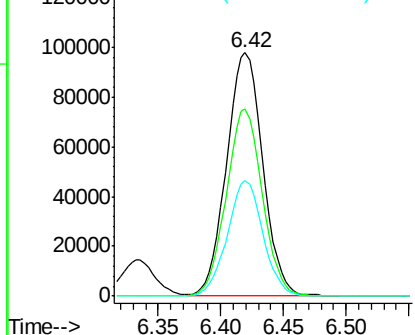


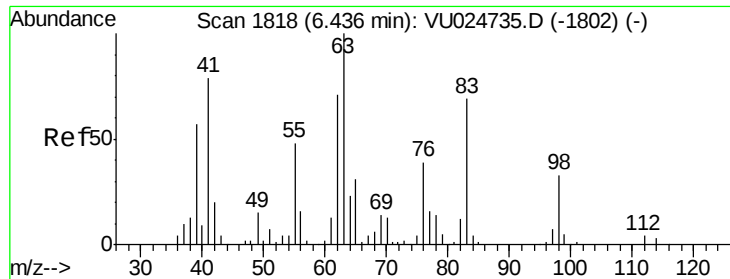
#35
 Methylcyclohexane
 Concen: 50.209 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Tgt Ion: 83 Resp: 195832
 Ion Ratio Lower Upper
 83 100
 55 76.5 59.4 89.0
 98 46.8 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

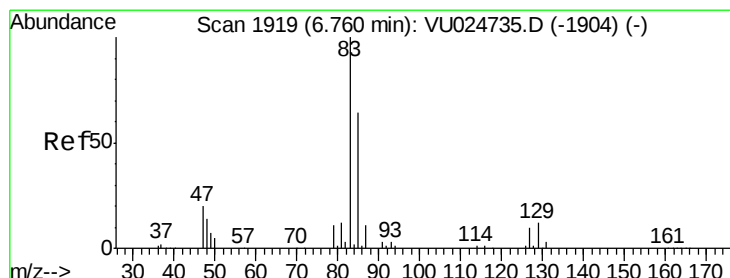
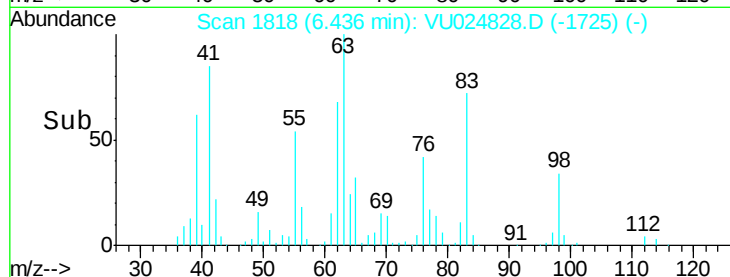
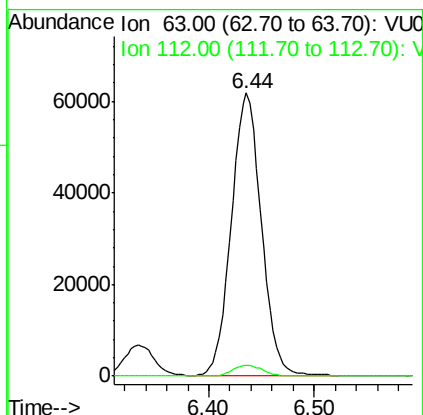
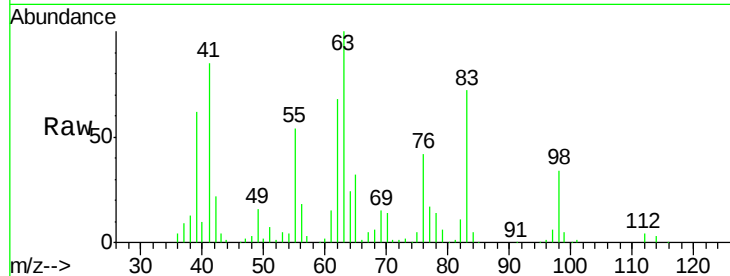




#37
 1,2-Dichloropropane
 Concen: 49.781 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

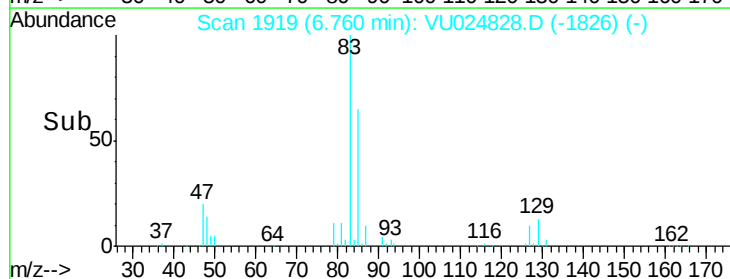
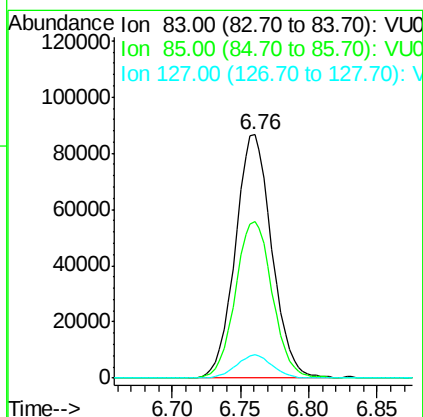
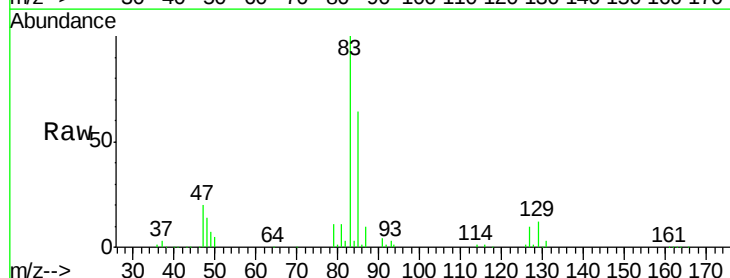
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

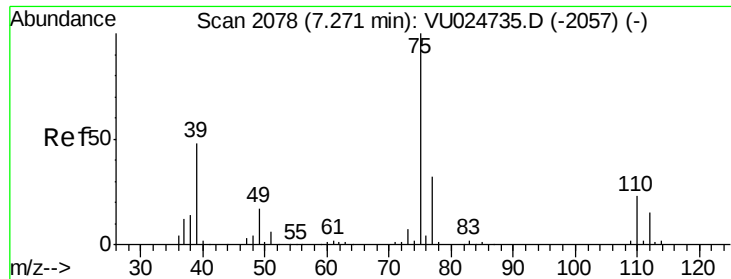
Tgt Ion: 63 Resp: 121478
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#38
 Bromodichloromethane
 Concen: 49.977 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Tgt Ion: 83 Resp: 160752
 Ion Ratio Lower Upper
 83 100
 85 64.5 44.9 83.3
 127 9.5 7.6 11.4

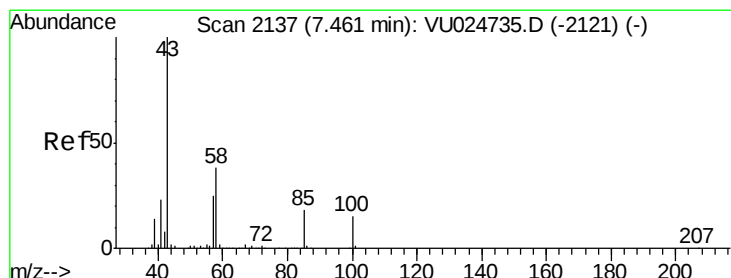
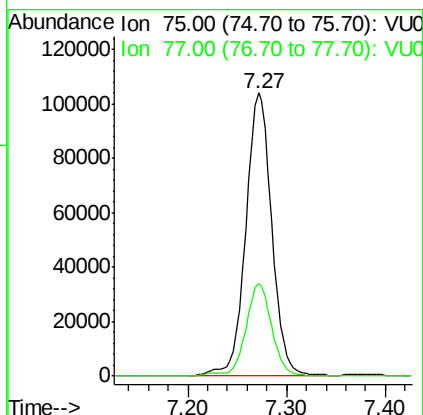
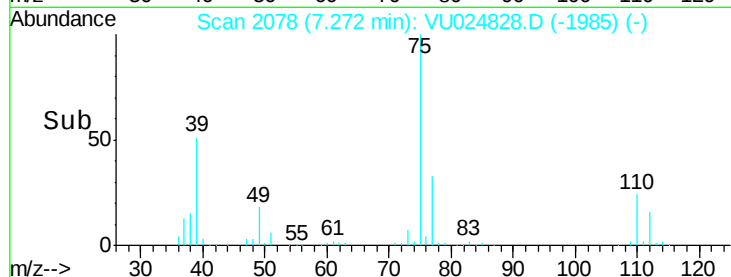
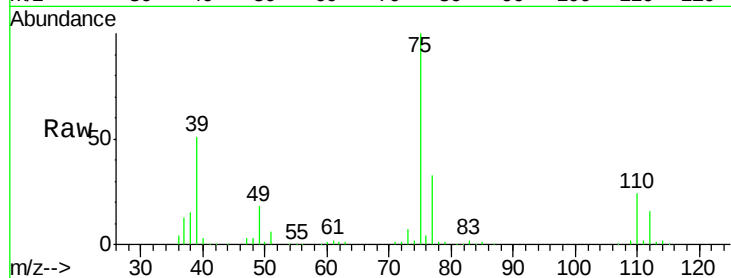




#39
 cis-1,3-Dichloropropene
 Concen: 49.405 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

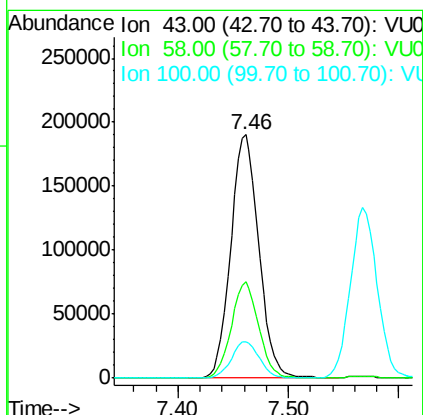
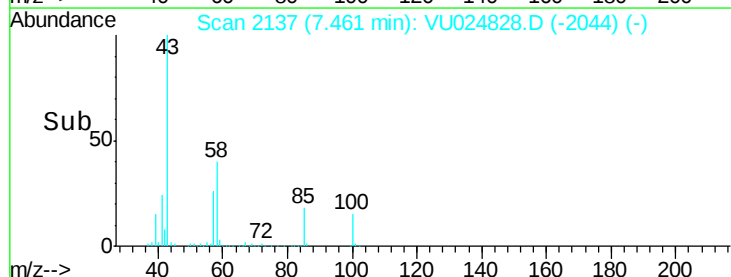
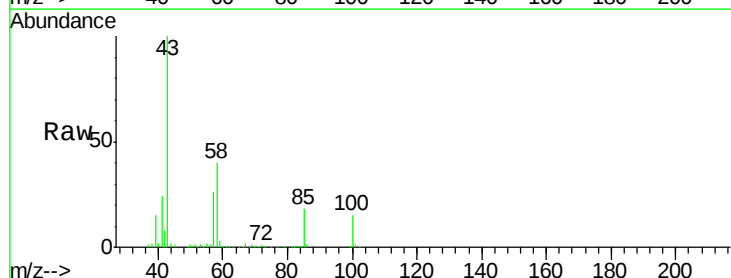
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

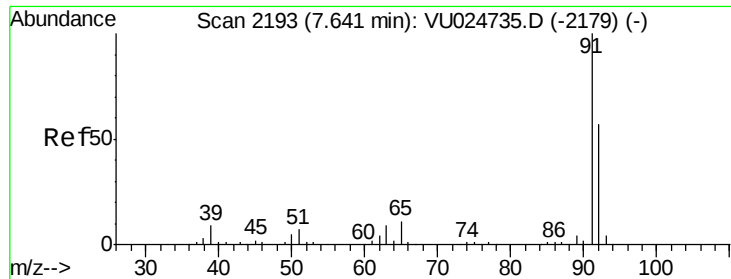
Tgt Ion: 75 Resp: 188981
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 92.594 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Tgt Ion: 43 Resp: 335499
 Ion Ratio Lower Upper
 43 100
 58 38.5 31.0 46.6
 100 14.8 12.0 18.0





#42

Toluene

Concen: 49.493 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

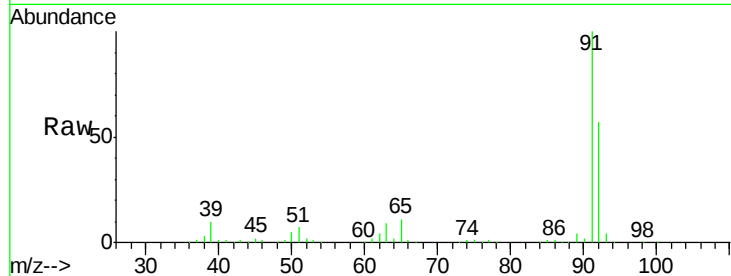
VSTD05052

Tgt Ion: 91 Resp: 482824

Ion Ratio Lower Upper

91 100

92 57.4 39.8 73.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

300000

250000

200000

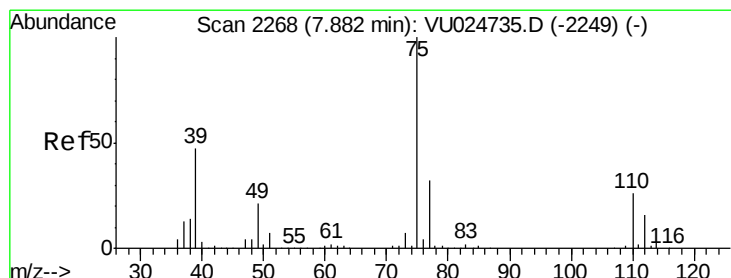
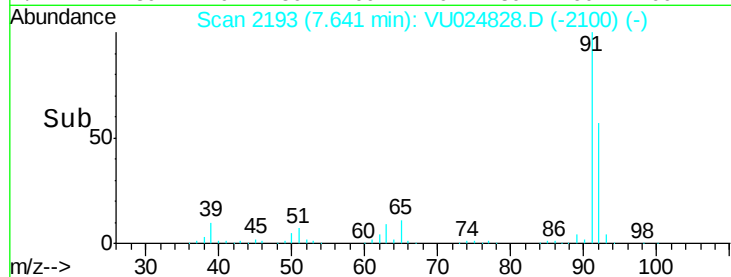
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.606 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU024828.D

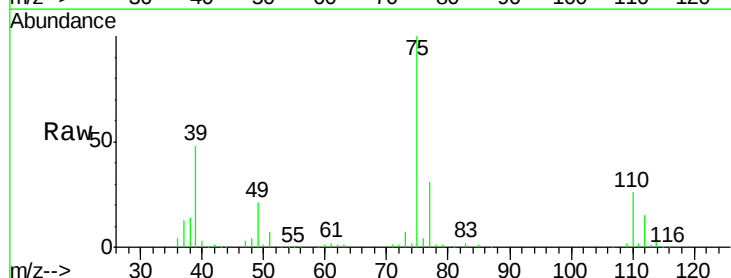
Acq: 22 Jun 2018 10:57

Tgt Ion: 75 Resp: 177030

Ion Ratio Lower Upper

75 100

77 31.4 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

120000

100000

80000

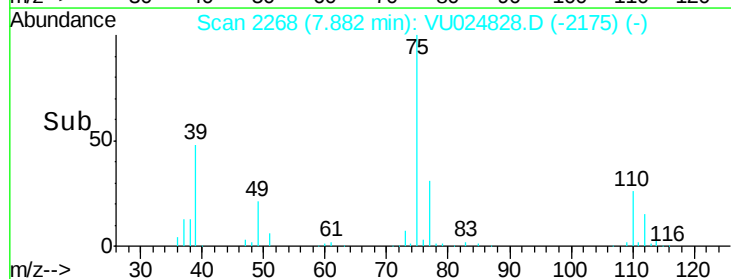
60000

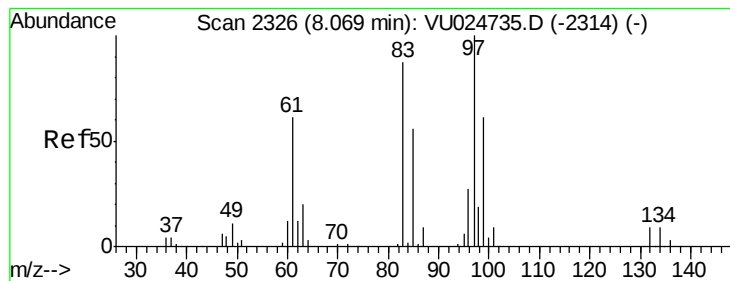
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 49.846 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 97 Resp: 114453

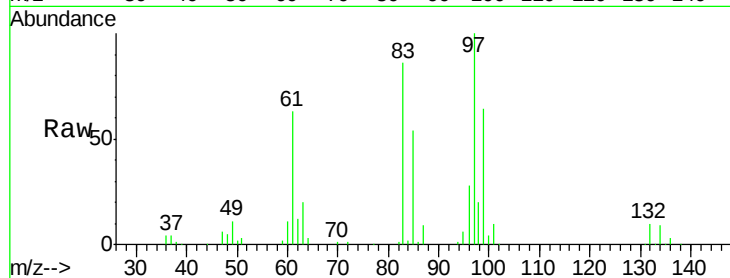
Ion Ratio Lower Upper

97 100

99 64.0 44.0 81.8

83 86.1 61.0 113.2

85 54.3 41.3 76.7

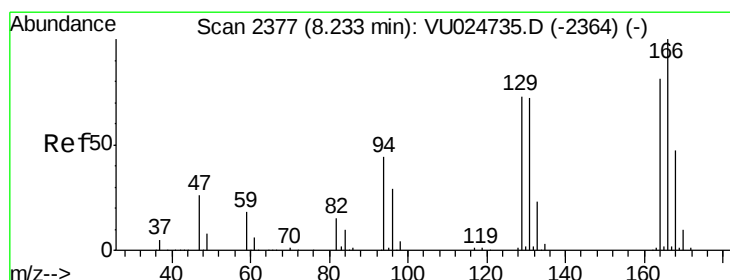
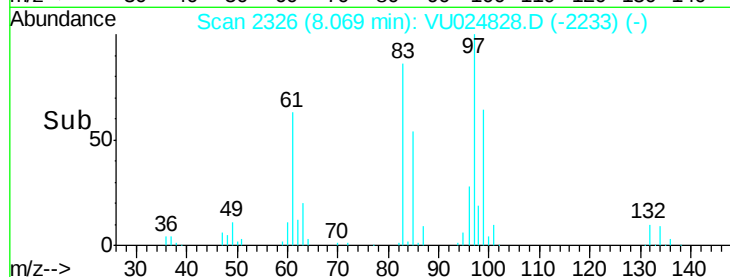
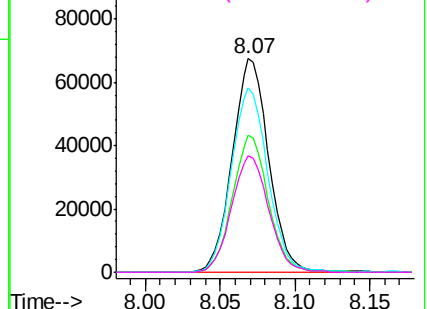


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 48.268 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Tgt Ion: 164 Resp: 98581

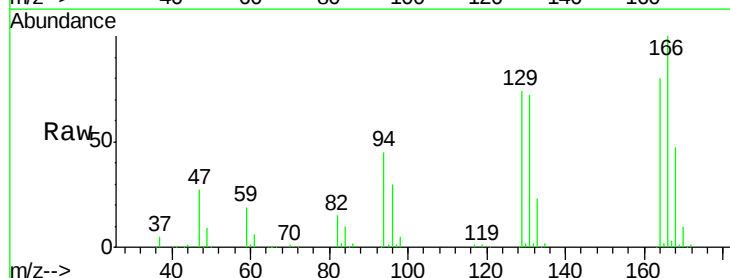
Ion Ratio Lower Upper

164 100

129 92.9 65.7 121.9

131 90.5 62.0 115.2

166 125.1 87.8 163.0

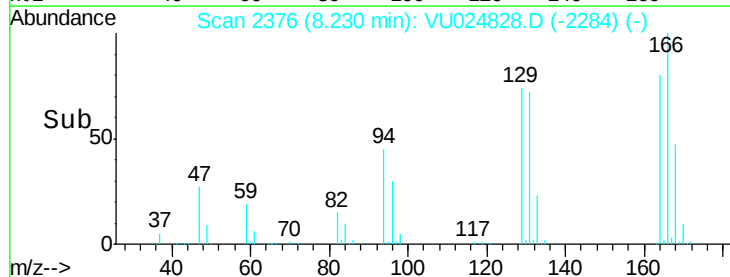
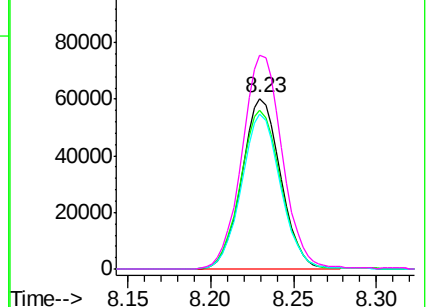


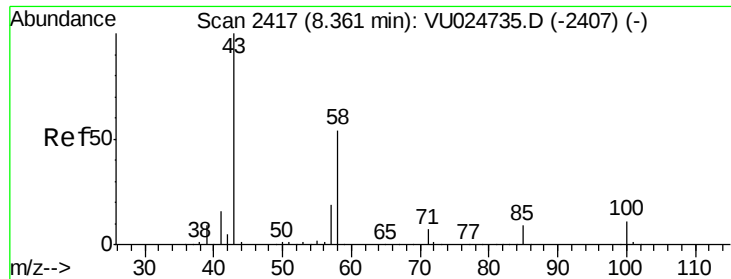
Abundance Ion 164.00 (163.70 to 164.70): V

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

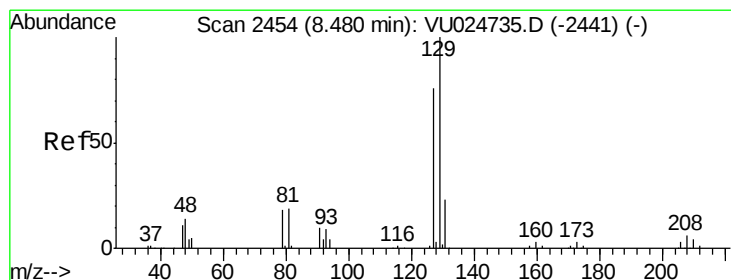
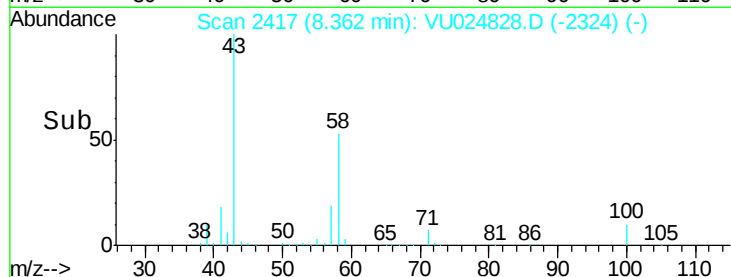
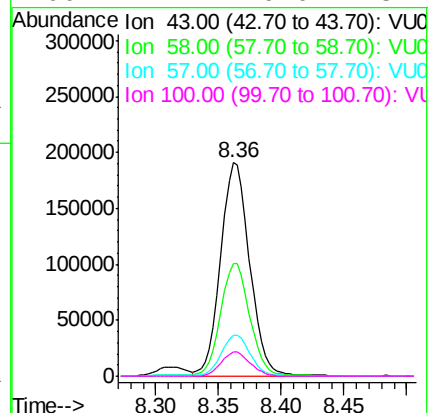
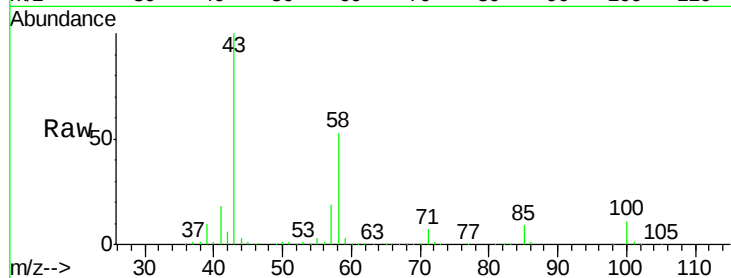




#48
2-Hexanone
Concen: 104.021 ug/L
RT: 8.36 min Scan# 2417
Delta R.T. 0.00 min
Lab File: VU024828.D
Acq: 22 Jun 2018 10:57

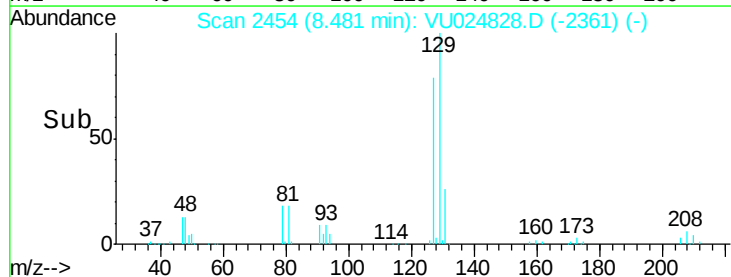
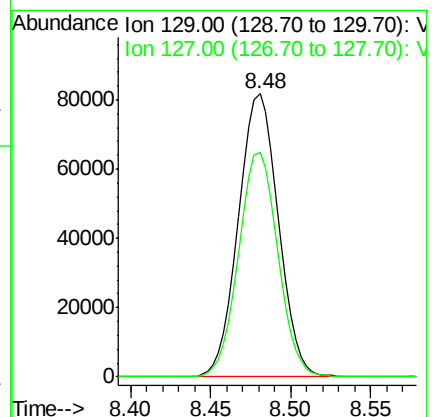
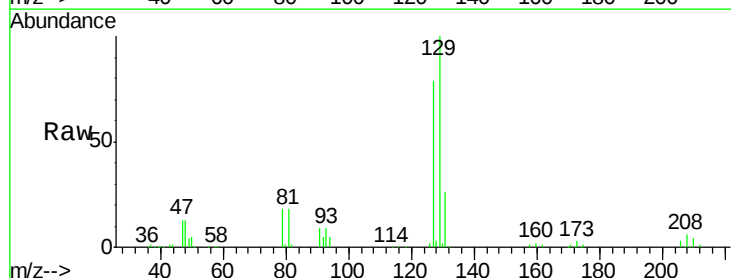
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

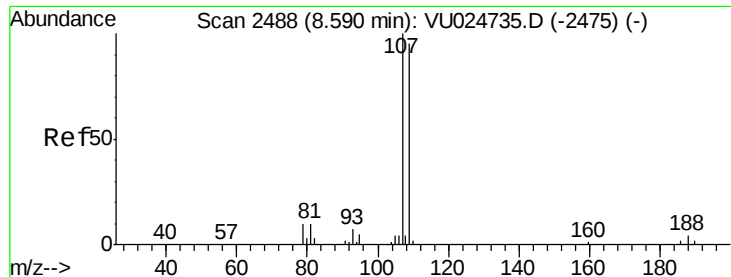
Tgt Ion: 43 Resp: 306258
Ion Ratio Lower Upper
43 100
58 52.9 42.6 63.8
57 19.0 14.7 22.1
100 11.4 9.0 13.4



#49
Dibromochloromethane
Concen: 49.605 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU024828.D
Acq: 22 Jun 2018 10:57

Tgt Ion: 129 Resp: 139558
Ion Ratio Lower Upper
129 100
127 79.2 52.9 98.3

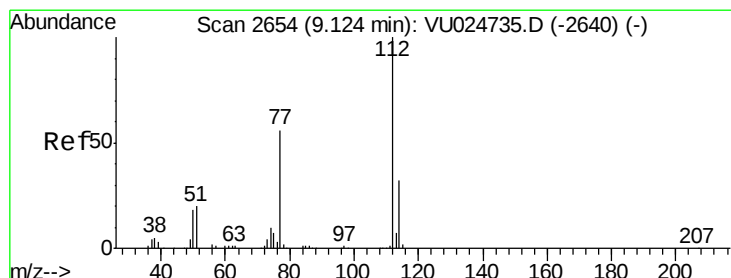
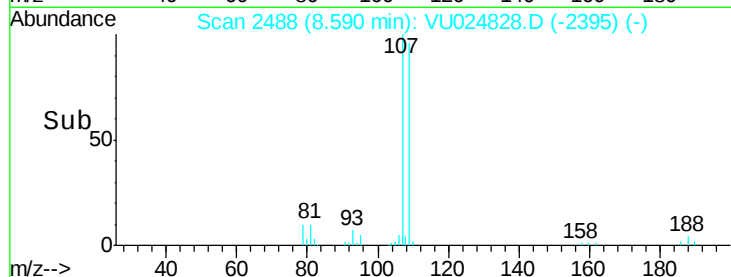
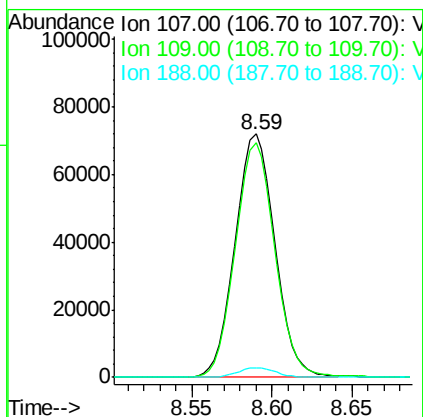
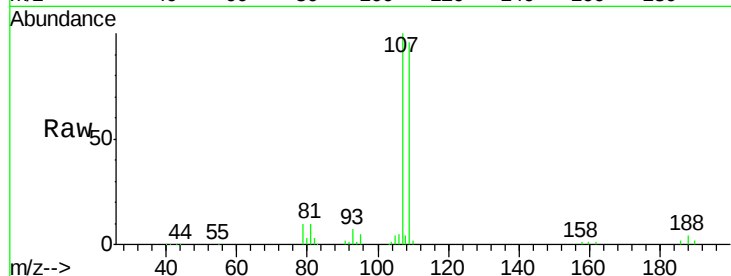




#50
1,2-Dibromoethane
Concen: 48.472 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU024828.D
Acq: 22 Jun 2018 10:57

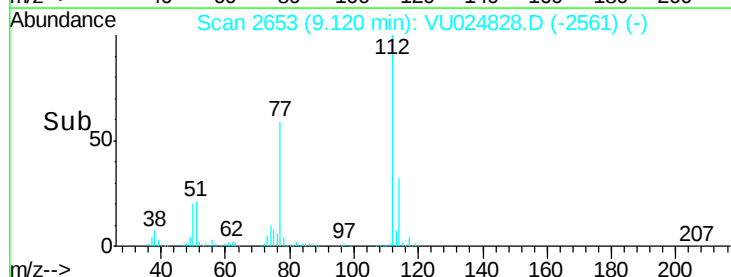
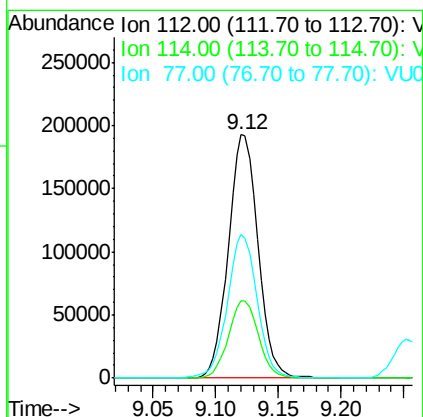
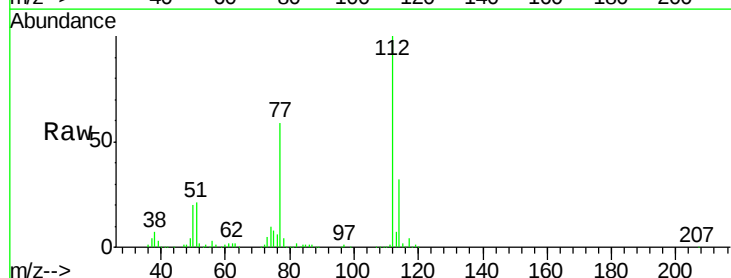
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

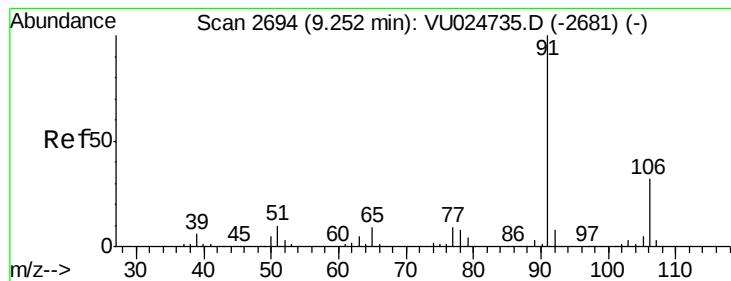
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.4	66.6	123.6
188	3.9	3.0	4.6



#51
Chlorobenzene
Concen: 48.490 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU024828.D
Acq: 22 Jun 2018 10:57

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.7	42.1
77	59.2	45.0	67.6





#52

Ethylbenzene

Concen: 49.560 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

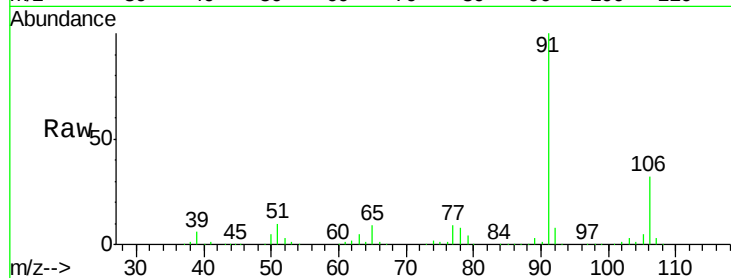
VSTD05052

Tgt Ion: 91 Resp: 554308

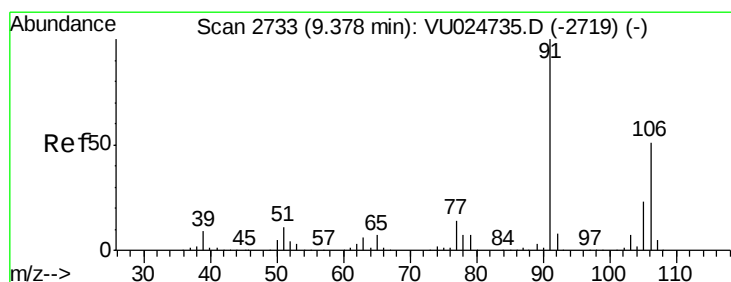
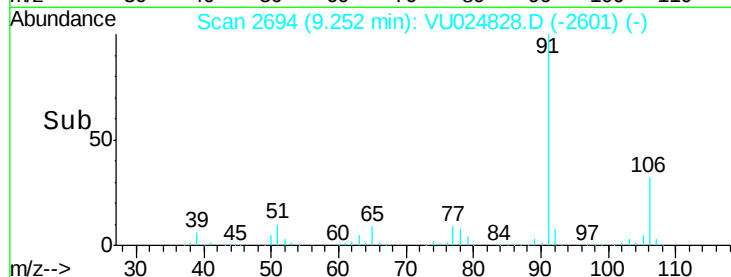
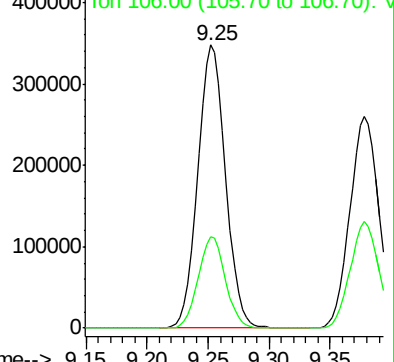
Ion Ratio Lower Upper

91 100

106 32.3 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU024828.D (-2601) (-)



#53

m,p-Xylene

Concen: 49.635 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU024828.D

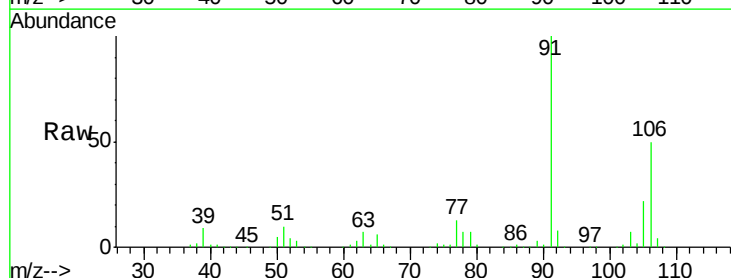
Acq: 22 Jun 2018 10:57

Tgt Ion: 106 Resp: 213629

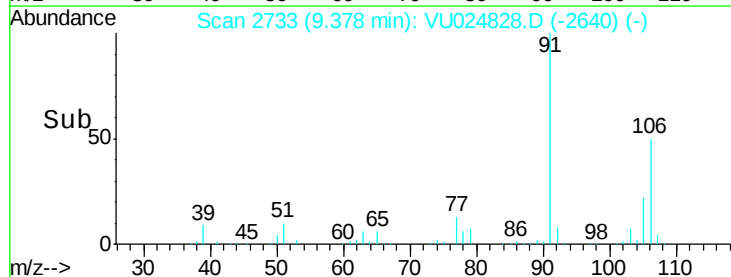
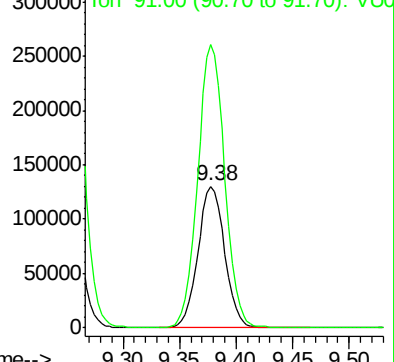
Ion Ratio Lower Upper

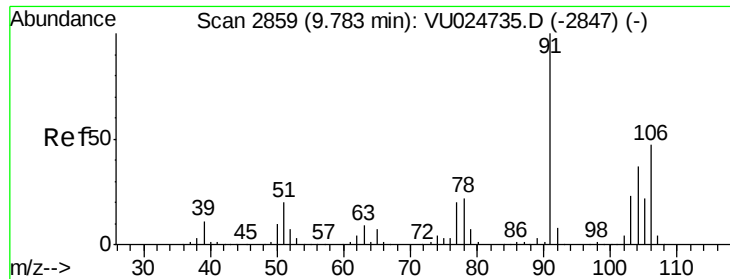
106 100

91 199.7 141.5 262.7



Abundance Ion 106.00 (105.70 to 106.70): VU024828.D (-2640) (-)





#54

o-xylene

Concen: 50.135 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

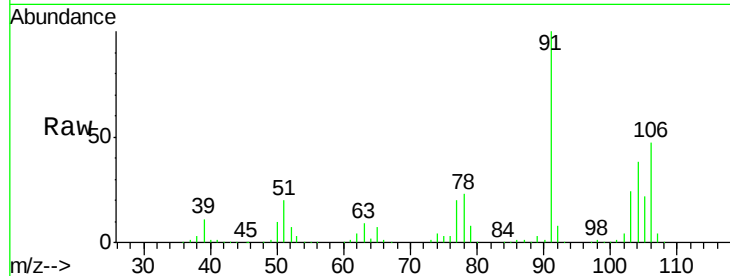
VSTD05052

Tgt Ion:106 Resp: 212880

Ion Ratio Lower Upper

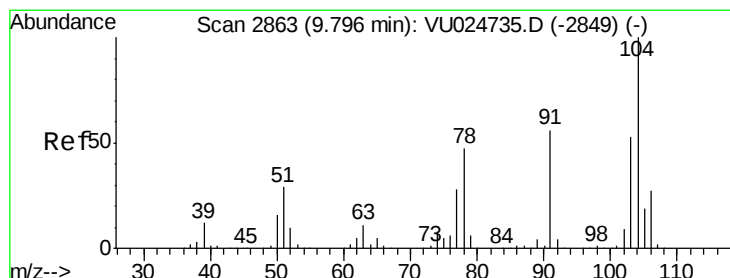
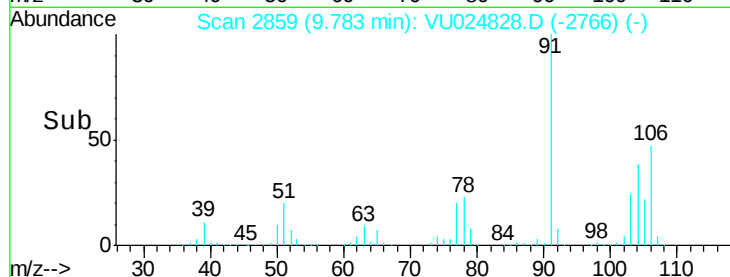
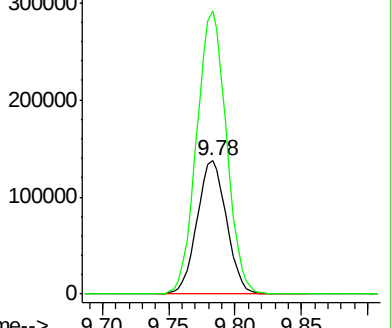
106 100

91 212.5 150.0 278.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.005 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU024828.D

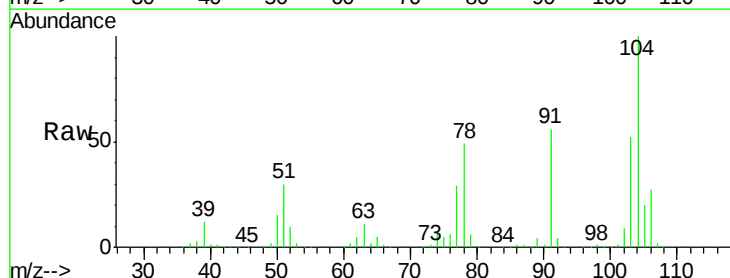
Acq: 22 Jun 2018 10:57

Tgt Ion:104 Resp: 353821

Ion Ratio Lower Upper

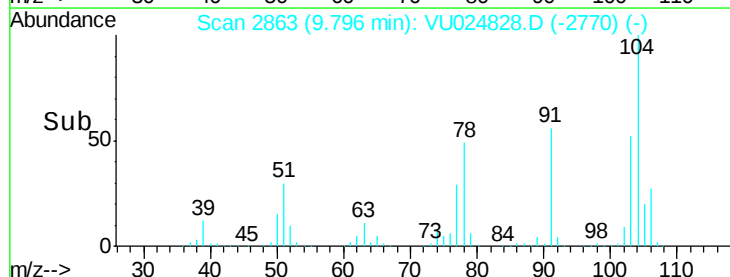
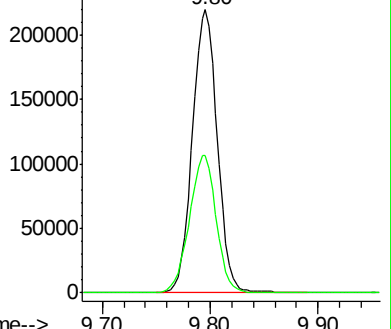
104 100

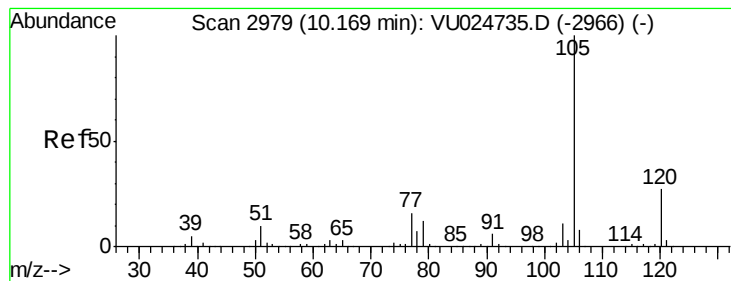
78 48.6 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.885 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

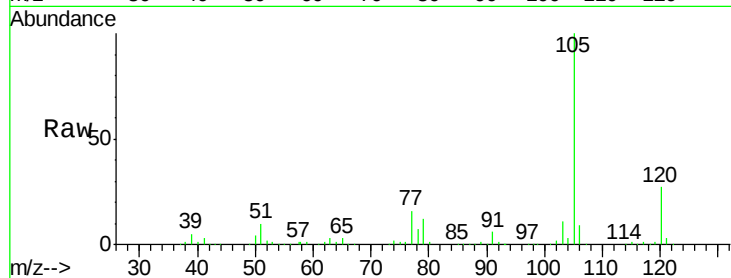
Tgt Ion: 105 Resp: 570076

Ion Ratio Lower Upper

105 100

120 26.7 22.1 33.1

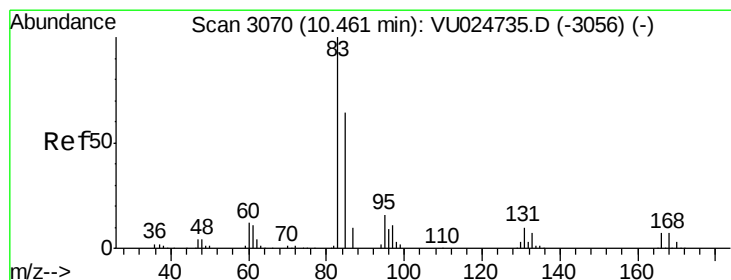
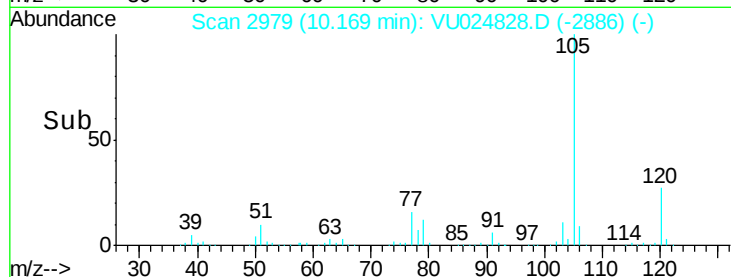
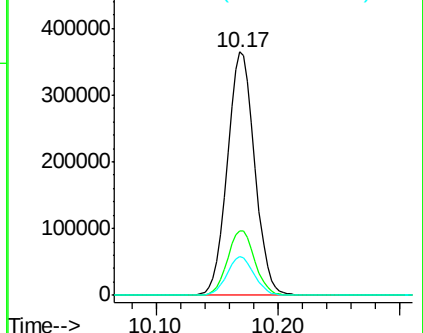
77 16.0 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.798 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

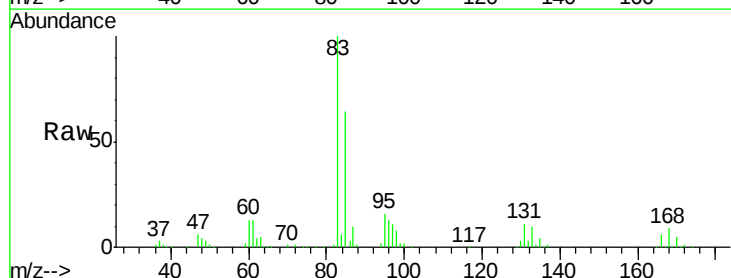
Tgt Ion: 83 Resp: 193062

Ion Ratio Lower Upper

83 100

85 64.3 45.9 85.3

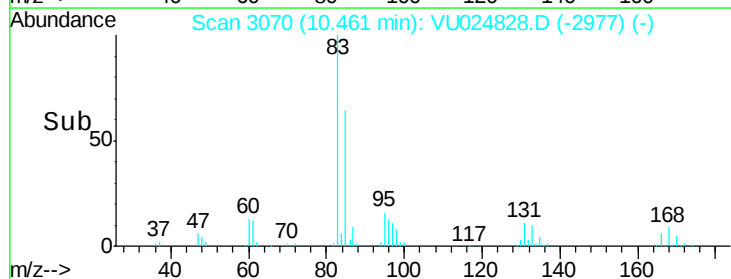
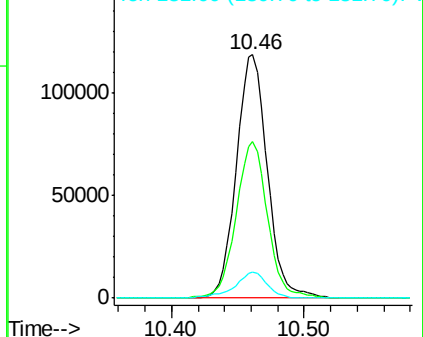
131 10.7 8.6 12.8

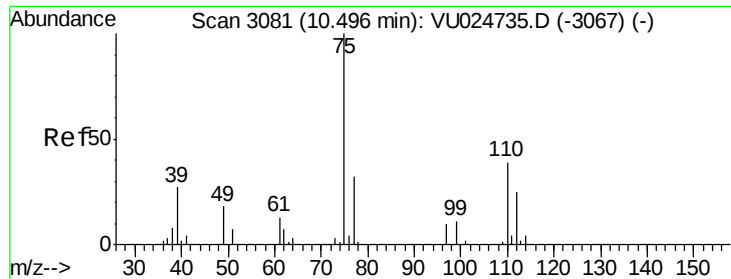


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V

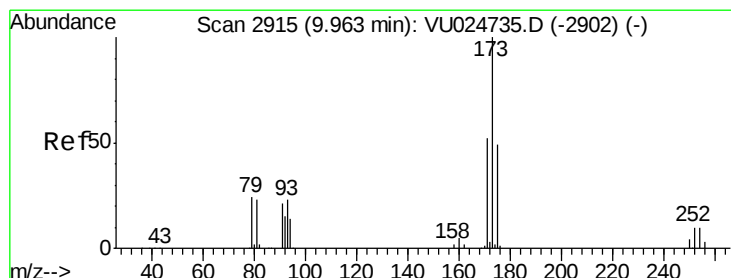
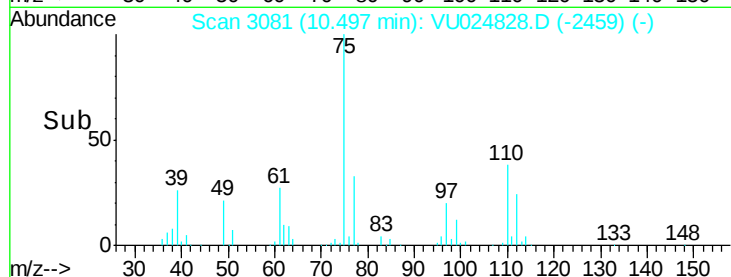
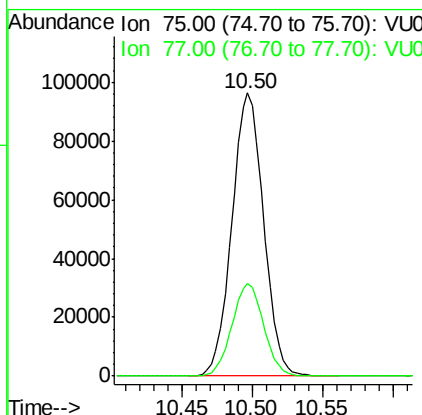
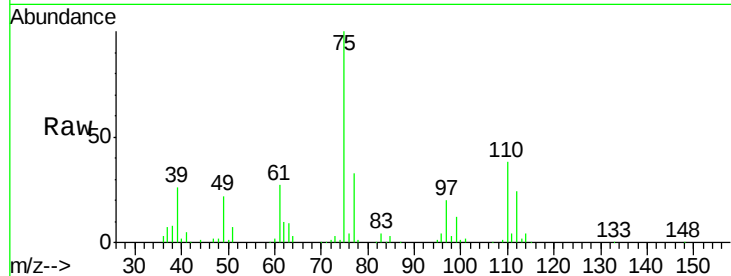




#59
 1,2,3-Trichloropropane
 Concen: 48.882 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

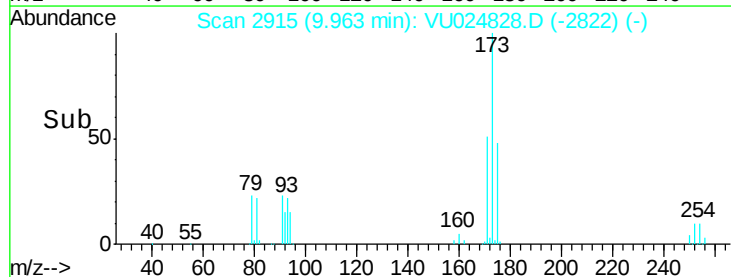
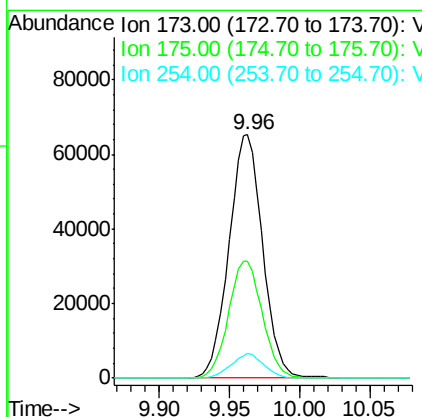
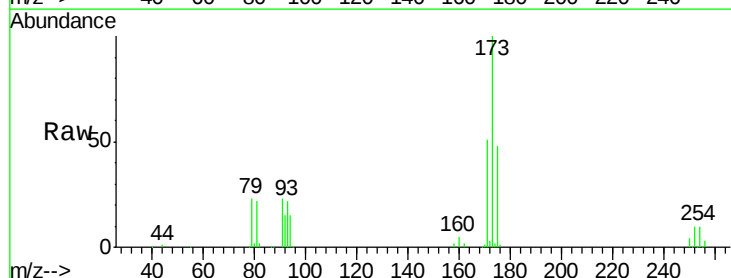
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

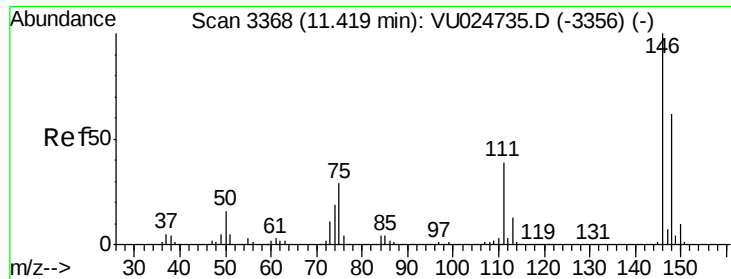
Tgt Ion: 75 Resp: 151634
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.3 39.5



#61
 Bromoform
 Concen: 48.204 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Tgt Ion: 173 Resp: 108844
 Ion Ratio Lower Upper
 173 100
 175 48.3 39.3 58.9
 254 9.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 50.117 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

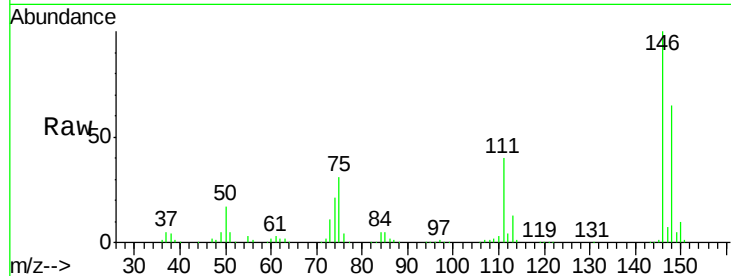
Tgt Ion:146 Resp: 262165

Ion Ratio Lower Upper

146 100

111 39.6 28.4 52.8

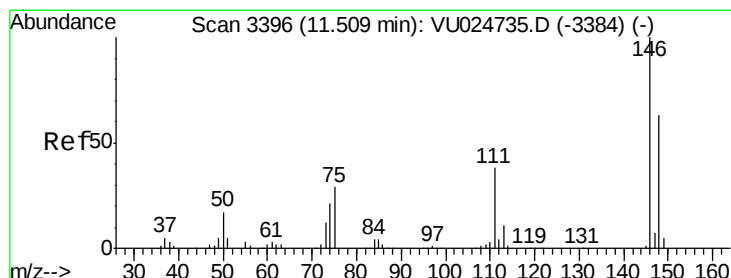
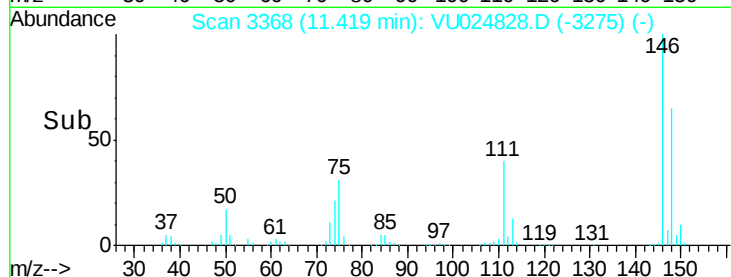
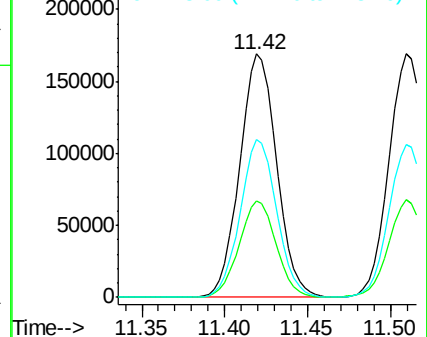
148 64.9 44.3 82.3



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: 50.237 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

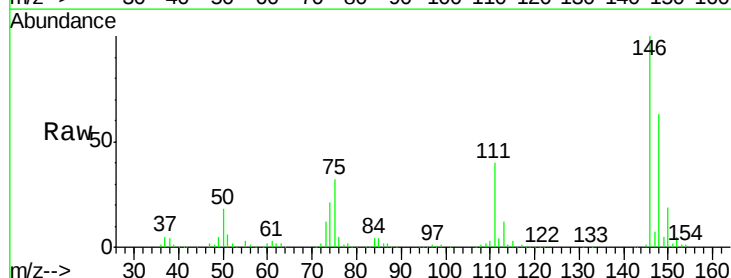
Tgt Ion:146 Resp: 265064

Ion Ratio Lower Upper

146 100

111 40.1 26.5 49.1

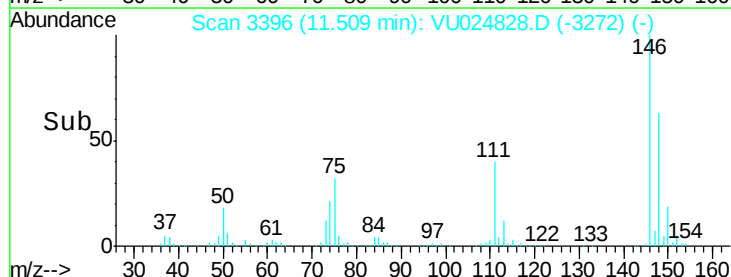
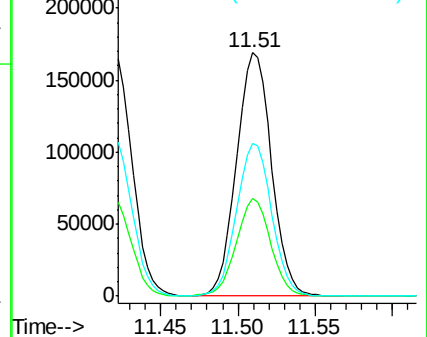
148 62.8 44.6 82.8

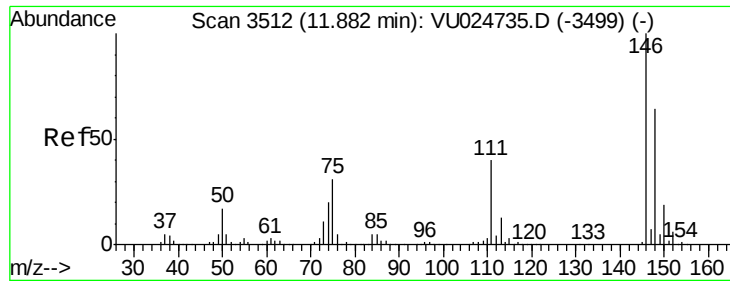


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.902 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

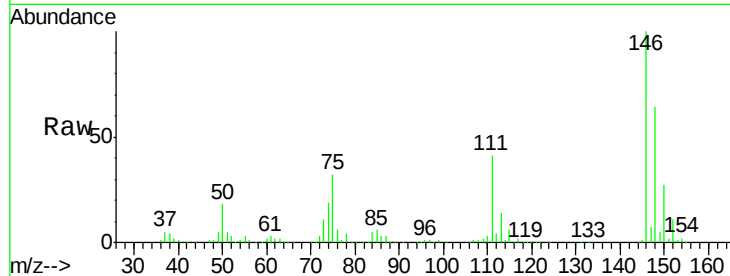
Tgt Ion:146 Resp: 271707

Ion Ratio Lower Upper

146 100

111 41.5 32.2 48.4

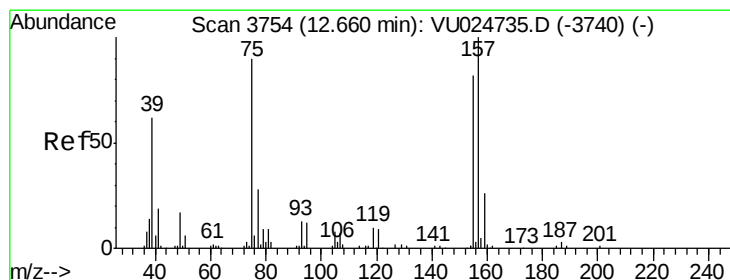
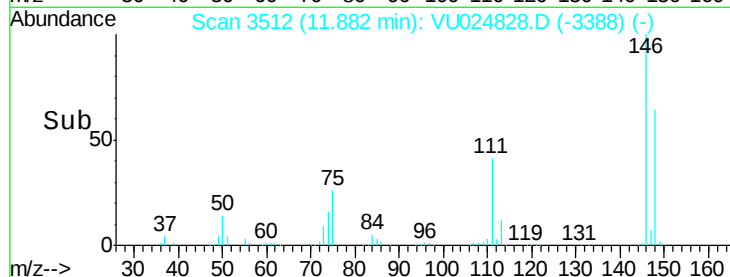
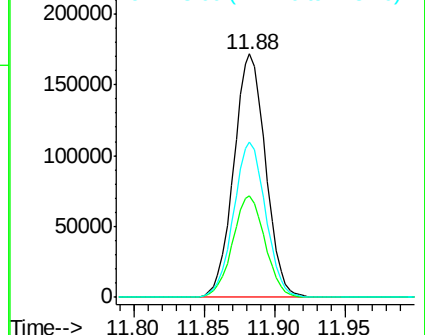
148 64.0 50.8 76.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 50.725 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

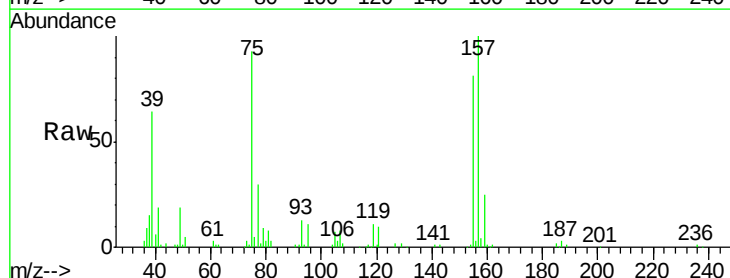
Tgt Ion: 75 Resp: 46472

Ion Ratio Lower Upper

75 100

155 87.1 76.8 115.2

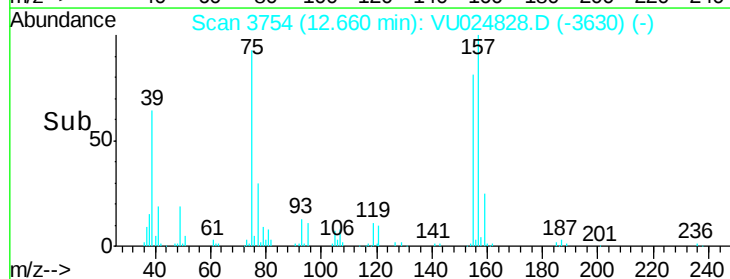
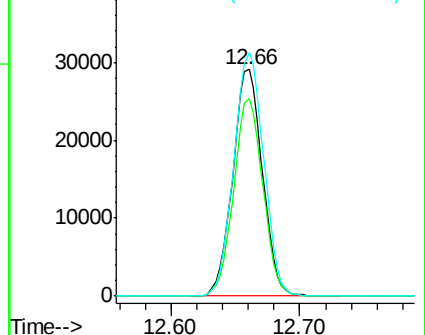
157 107.5 98.4 147.6

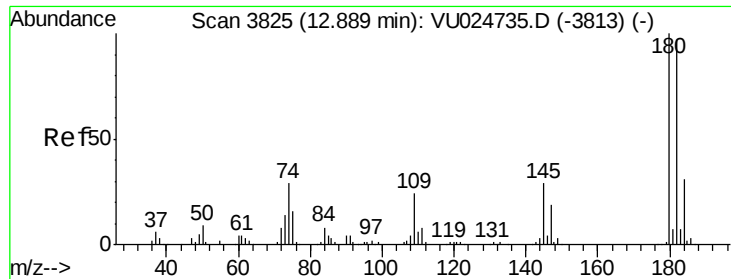


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

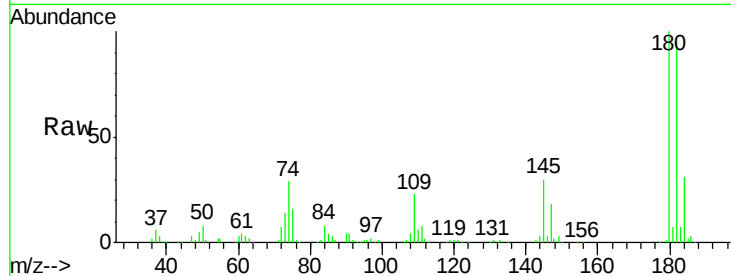




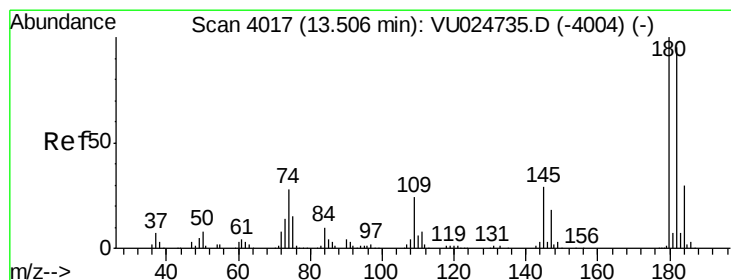
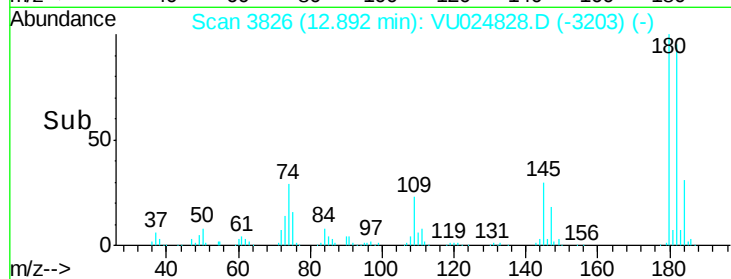
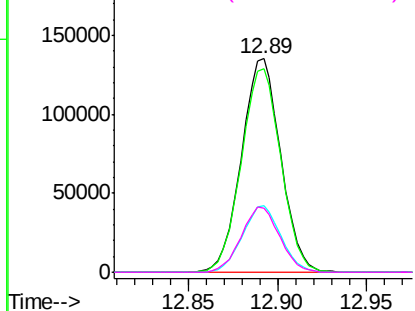
#67
 1,3,5-Trichlorobenzene
 Concen: 49.719 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:180 Resp: 207942
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.2 114.4
 184 30.6 24.7 37.1
 145 30.0 22.6 34.0

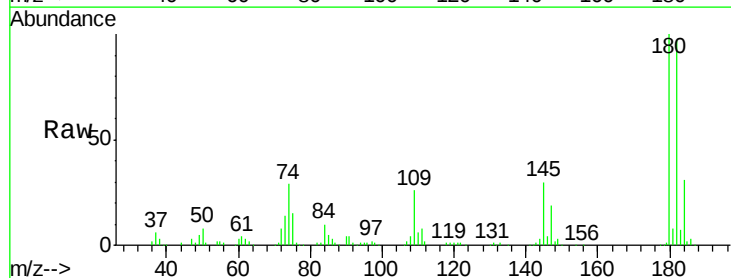


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

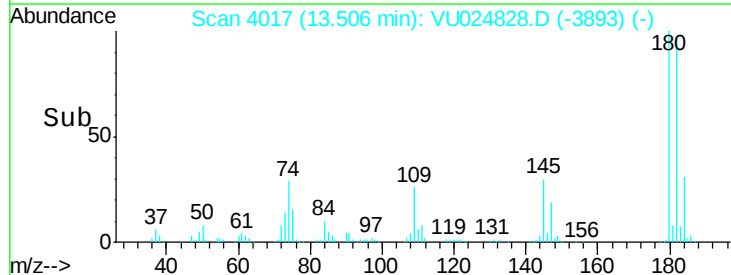
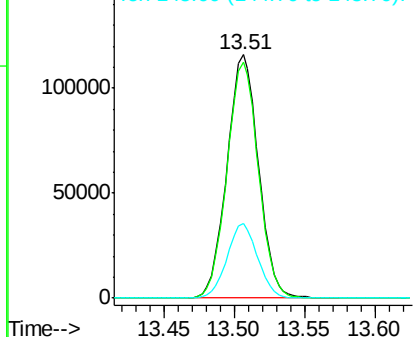


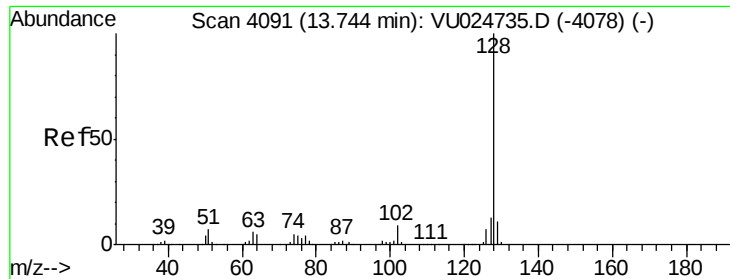
#68
 1,2,4-trichlorobenzene
 Concen: 51.984 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU024828.D
 Acq: 22 Jun 2018 10:57

Tgt Ion:180 Resp: 180823
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.2 114.2
 145 29.7 23.0 34.6



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: 55.076 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

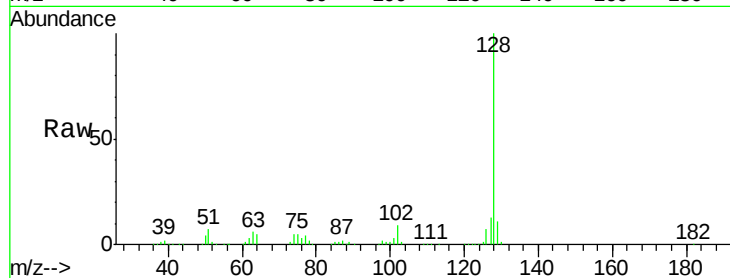
Tgt Ion:128 Resp: 529136

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

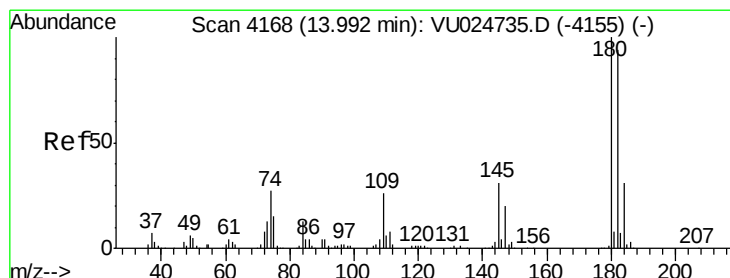
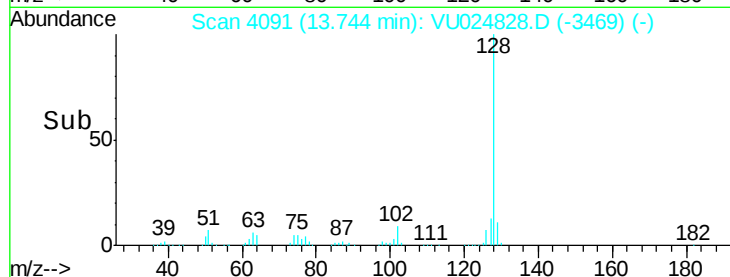
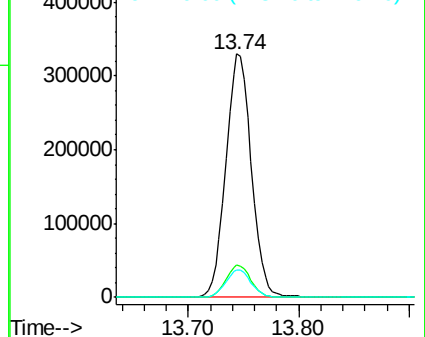
129 11.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 54.575 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU024828.D

Acq: 22 Jun 2018 10:57

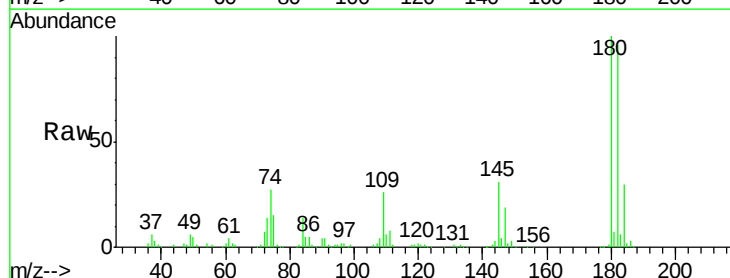
Tgt Ion:180 Resp: 192497

Ion Ratio Lower Upper

180 100

182 95.9 76.4 114.6

145 31.3 24.5 36.7



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

