

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072318\
 Data File : VU025596.D
 Acq On : 23 Jul 2018 11:23
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05064

Quant Time: Jul 24 02:03:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 23 16:29:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	303511	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	286699	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	155421	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	78601	45.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.72%
7) Chloroethane-d5	1.68	69	69945	48.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.88%
11) 1,1-Dichloroethene-d2	2.27	63	176607	48.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.92%
21) 2-Butanone-d5	4.18	46	154934	115.82	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.82%
24) Chloroform-d	4.65	84	204281	52.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.86%
26) 1,2-Dichloroethane-d4	5.31	65	138270	54.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.34%
32) Benzene-d6	5.35	84	387840	52.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.50%
36) 1,2-Dichloropropane-d6	6.34	67	127137	53.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.32%
41) Toluene-d8	7.57	98	376454	53.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.78%
43) trans-1,3-Dichloropropene-	7.85	79	68674	56.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	113.50%
47) 2-Hexanone-d5	8.31	63	113314	114.22	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	114.22%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	182071	54.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	168263	53.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.84%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	136265	45.566	ug/L 99
3) Chloromethane	1.33	50	110506	51.168	ug/L 99
5) Vinyl chloride	1.41	62	112193	47.364	ug/L 99
6) Bromomethane	1.63	94	52062	63.202	ug/L 95
8) Chloroethane	1.70	64	64579	46.300	ug/L 99
9) Trichlorofluoromethane	1.89	101	157247	46.617	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	92430	48.932	ug/L 99
12) 1,1-Dichloroethene	2.29	96	83500	48.749	ug/L 92
13) Acetone	2.32	43	138600	88.274	ug/L 98
14) Carbon disulfide	2.48	76	261110	46.815	ug/L 100
15) Methyl Acetate	2.62	43	101547	46.786	ug/L 100
16) Methylene chloride	2.70	84	100921	47.298	ug/L 99
17) trans-1,2-Dichloroethene	2.99	96	92969	47.141	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	305597	47.580	ug/L 99
19) 1,1-Dichloroethane	3.45	63	176828	47.136	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	106445	47.817	ug/L 96
22) 2-Butanone	4.26	43	159727	91.381	ug/L 100

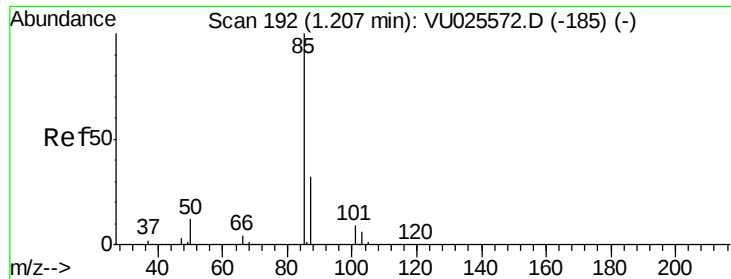
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072318\
 Data File : VU025596.D
 Acq On : 23 Jul 2018 11:23
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Quant Time: Jul 24 02:03:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 23 16:29:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	57065	48.567	uq/L	92
25) Chloroform	4.68	83	188642	47.787	uq/L	97
27) 1,2-Dichloroethane	5.41	62	153371	47.633	uq/L	100
29) Cyclohexane	5.00	56	157055	47.284	uq/L	98
30) 1,1,1-Trichloroethane	4.92	97	170717	47.586	uq/L	99
31) Carbon tetrachloride	5.14	117	154260	46.501	uq/L	99
33) Benzene	5.39	78	388769	47.194	uq/L	100
34) Trichloroethene	6.19	95	104353	47.743	uq/L	98
35) Methylcyclohexane	6.42	83	171959	48.793	uq/L	99
37) 1,2-Dichloropropane	6.44	63	104849	46.577	uq/L	100
38) Bromodichloromethane	6.76	83	141466	47.664	uq/L	98
39) cis-1,3-Dichloropropene	7.27	75	168812	48.322	uq/L	99
40) 4-Methyl-2-pentanone	7.46	43	284169	96.127	uq/L	100
42) Toluene	7.64	91	424600	47.795	uq/L	99
44) trans-1,3-Dichloropropene	7.88	75	162559	49.353	uq/L	99
45) 1,1,2-Trichloroethane	8.07	97	99478	46.071	uq/L	98
46) Tetrachloroethene	8.23	164	91162	48.110	uq/L	97
48) 2-Hexanone	8.36	43	234501	93.878	uq/L	99
49) Dibromochloromethane	8.48	129	122306	48.287	uq/L	98
50) 1,2-Dibromoethane	8.59	107	109283	46.978	uq/L	99
51) Chlorobenzene	9.12	112	286660	47.931	uq/L	99
52) Ethylbenzene	9.25	91	479208	48.873	uq/L	99
53) m,p-Xylene	9.38	106	189642	50.494	uq/L	100
54) o-xylene	9.78	106	181957	47.746	uq/L	99
55) Styrene	9.80	104	311353	50.163	uq/L	100
56) Isopropylbenzene	10.17	105	493806	50.210	uq/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	163204	46.859	uq/L	98
59) 1,2,3-Trichloropropane	10.50	75	122832	46.456	uq/L	99
61) Bromoform	9.96	173	90980	45.256	uq/L	98
62) 1,3-Dichlorobenzene	11.42	146	239834	48.784	uq/L	99
63) 1,4-Dichlorobenzene	11.51	146	243758	48.573	uq/L	99
65) 1,2-Dichlorobenzene	11.88	146	242731	47.128	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	38180	47.135	uq/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	195271	51.457	uq/L	100
68) 1,2,4-trichlorobenzene	13.51	180	170203	53.366	uq/L	98
69) Naphthalene	13.74	128	475667	49.594	uq/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	171138	50.761	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 45.566 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

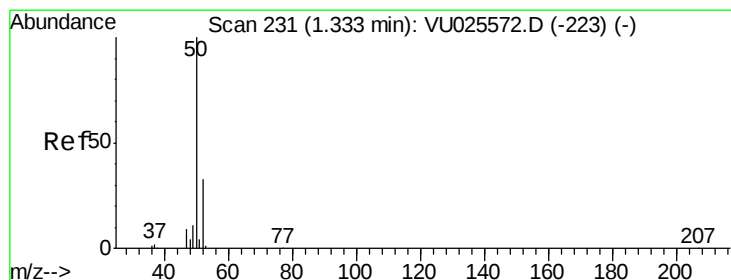
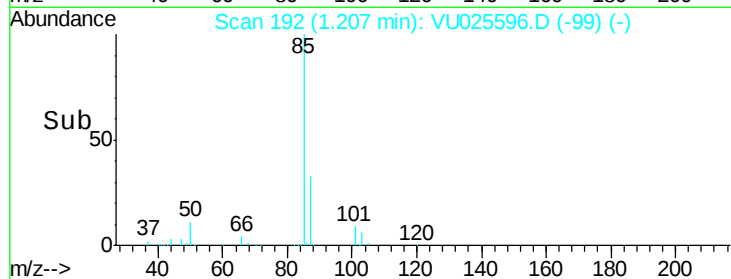
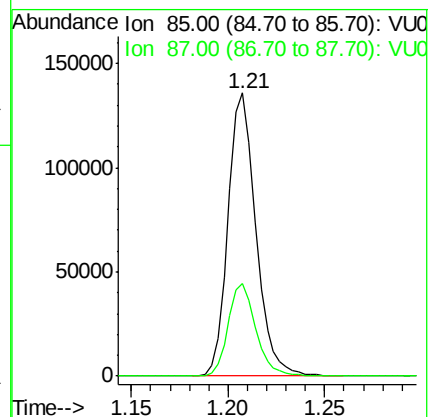
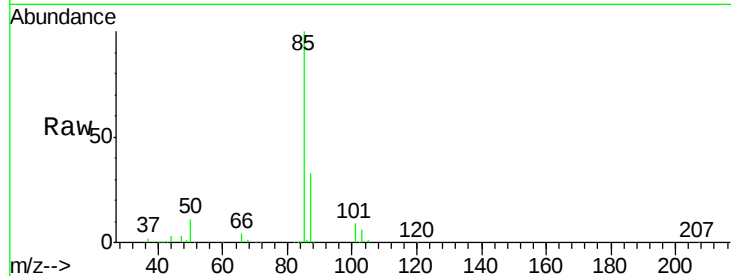
VSTD05064

Tot Ion: 85 Resp: 136265

Ion Ratio Lower Upper

85 100

87 32.3 25.6 38.4



#3

Chloromethane

Concen: 51.168 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025596.D

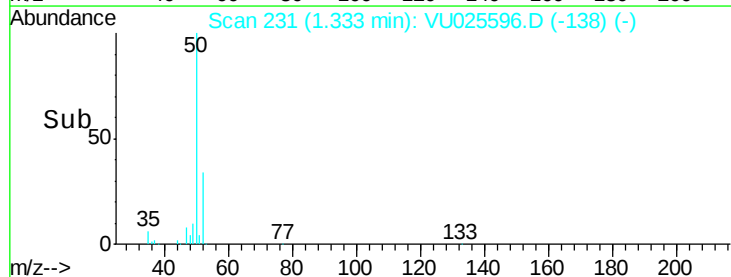
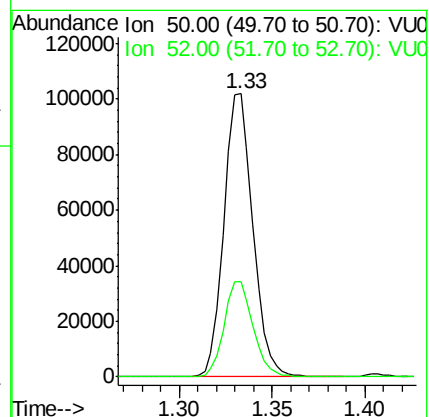
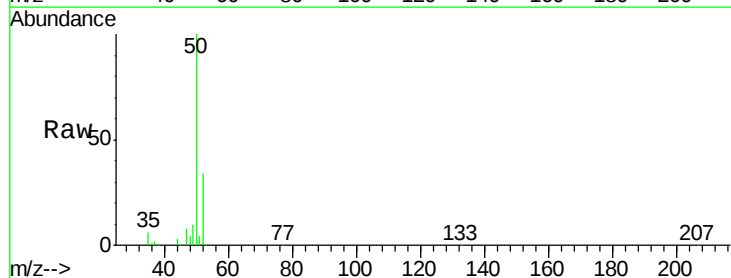
Acq: 23 Jul 2018 11:23

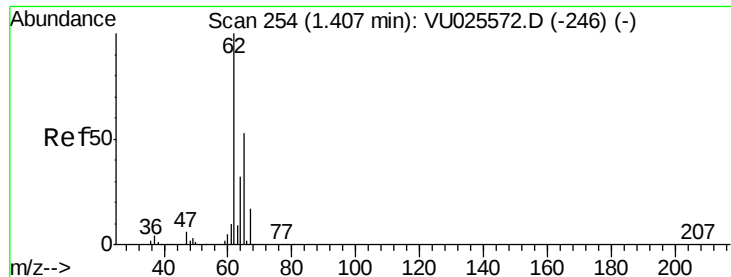
Tgt Ion: 50 Resp: 110506

Ion Ratio Lower Upper

50 100

52 33.7 23.2 43.2





#5

Vinyl chloride

Concen: 47.364 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

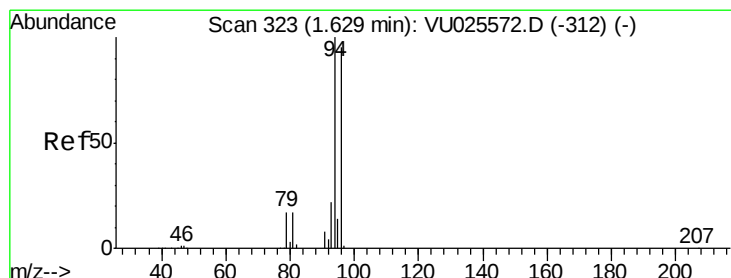
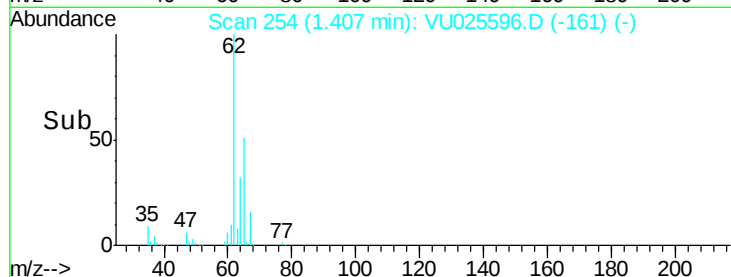
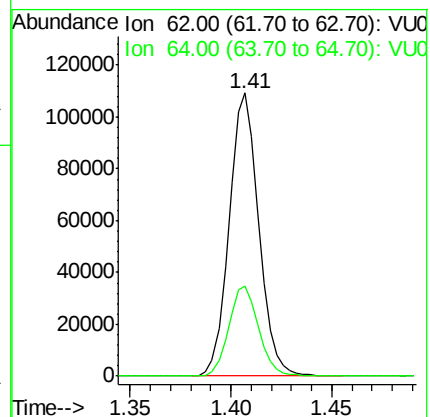
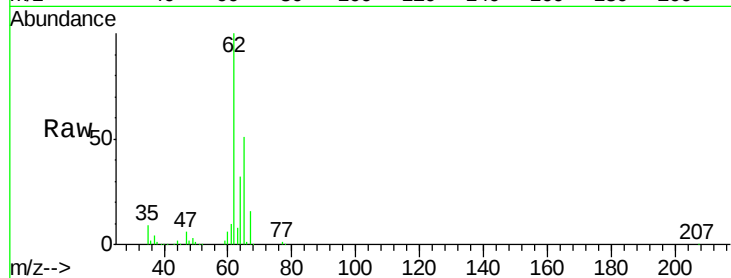
VSTD05064

Tot Ion: 62 Resp: 112193

Ion Ratio Lower Upper

62 100

64 31.8 22.7 42.1



#6

Bromomethane

Concen: 63.202 ug/L

RT: 1.63 min Scan# 323

Delta R.T. 0.00 min

Lab File: VU025596.D

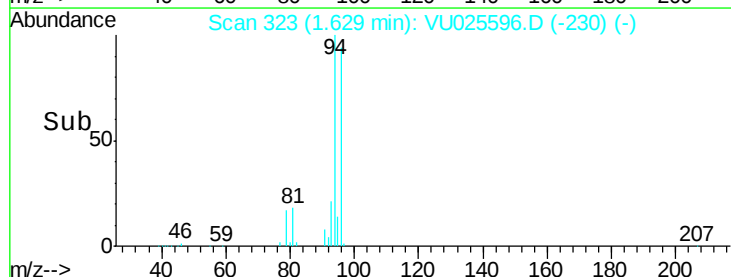
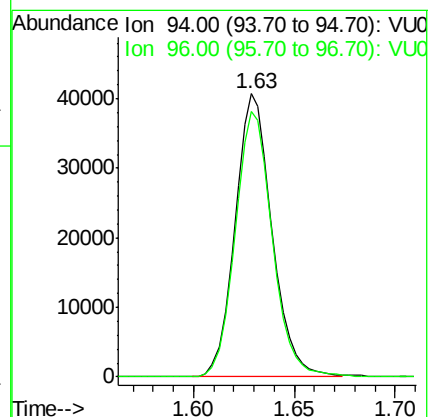
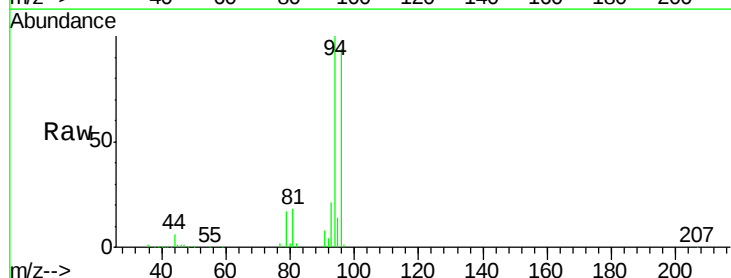
Acq: 23 Jul 2018 11:23

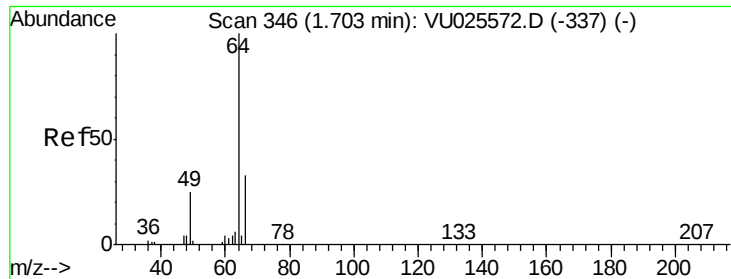
Tgt Ion: 94 Resp: 52062

Ion Ratio Lower Upper

94 100

96 93.8 62.4 115.8

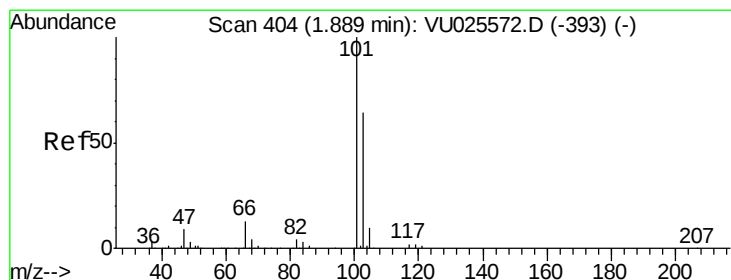
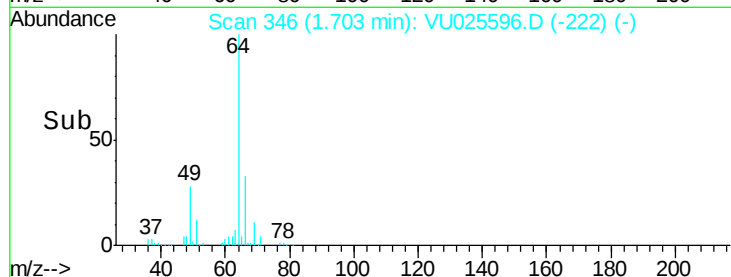
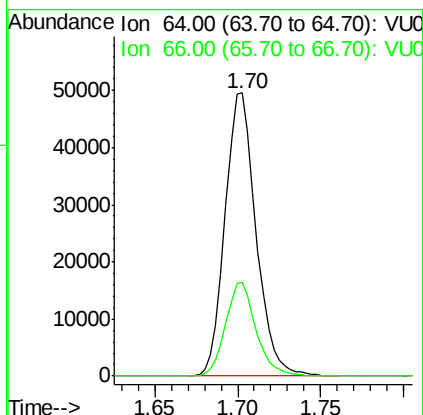
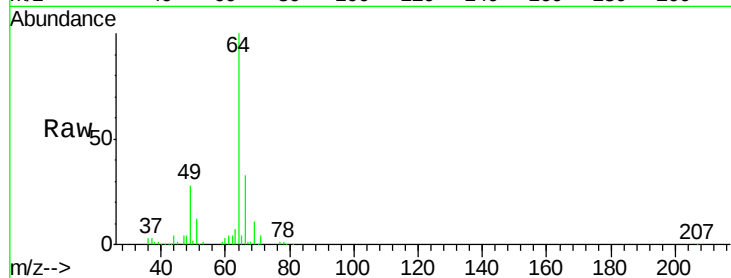




#8
 Chloroethane
 Concen: 46.300 ug/L
 RT: 1.70 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

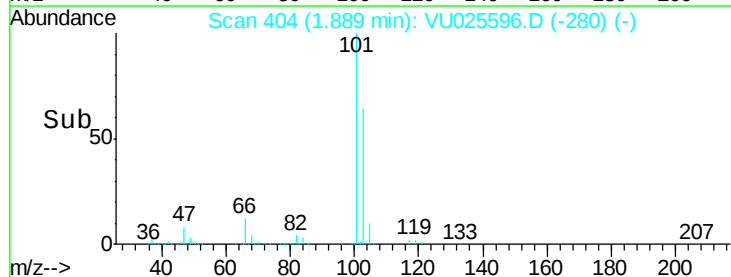
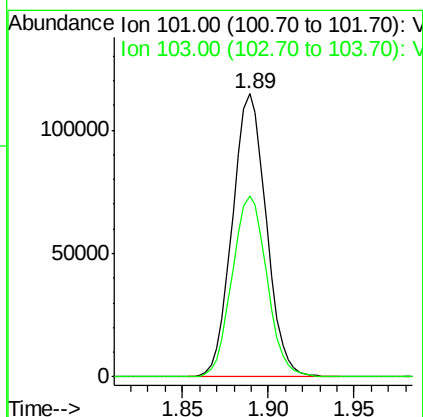
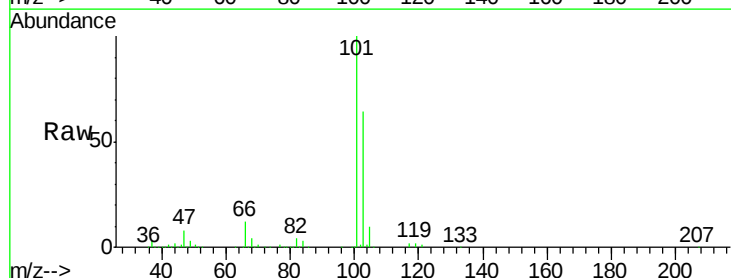
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05064

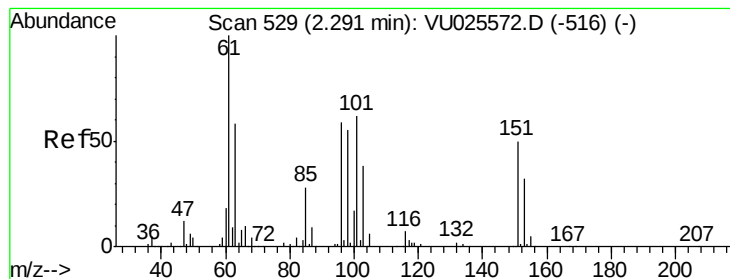
Tot Ion: 64 Resp: 64579
 Ion Ratio Lower Upper
 64 100
 66 33.2 23.5 43.7



#9
 Trichlorofluoromethane
 Concen: 46.617 ug/L
 RT: 1.89 min Scan# 404
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

Tgt Ion: 101 Resp: 157247
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.0 78.0





#10

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

Concen: 48.932 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

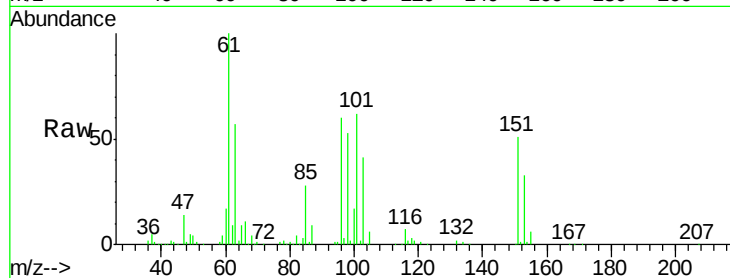
Tot Ion:101 Resp: 92430

Ion Ratio Lower Upper

101 100

85 44.6 35.5 53.3

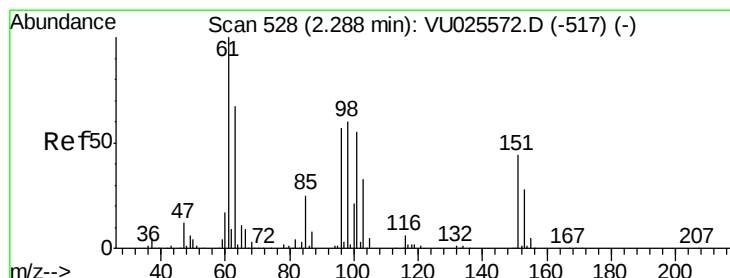
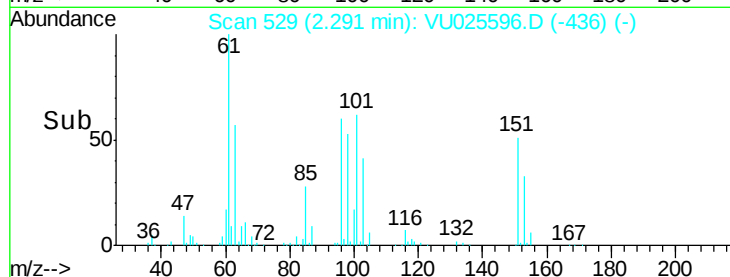
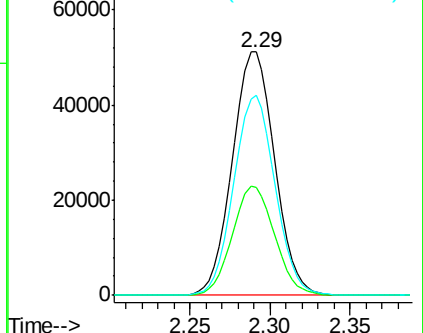
151 80.3 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.749 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

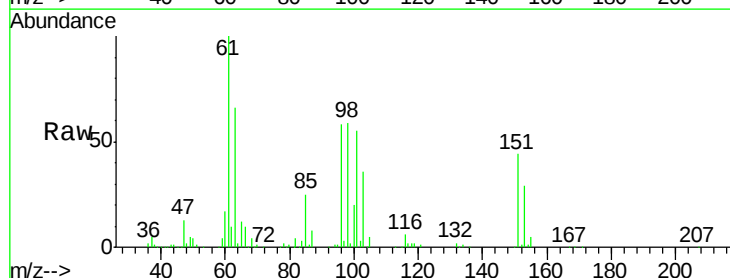
Tgt Ion: 96 Resp: 83500

Ion Ratio Lower Upper

96 100

61 171.0 122.5 227.5

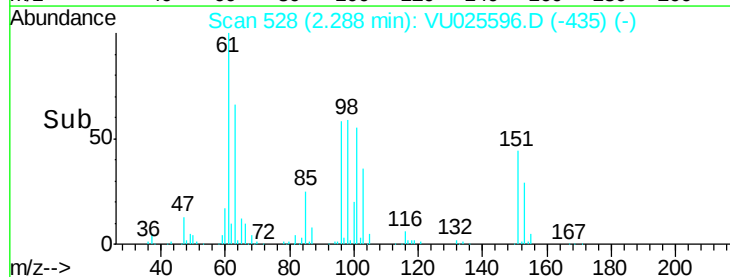
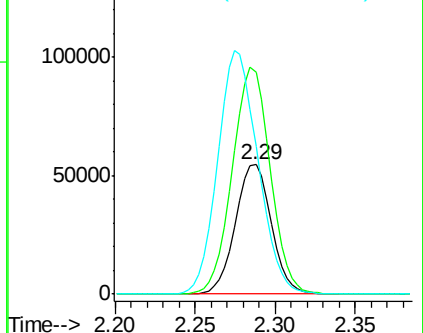
63 113.5 90.9 168.9

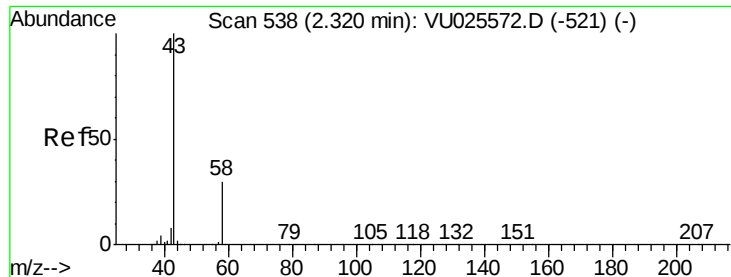


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 88.274 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

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MSVOA_U

ClientSampleId :

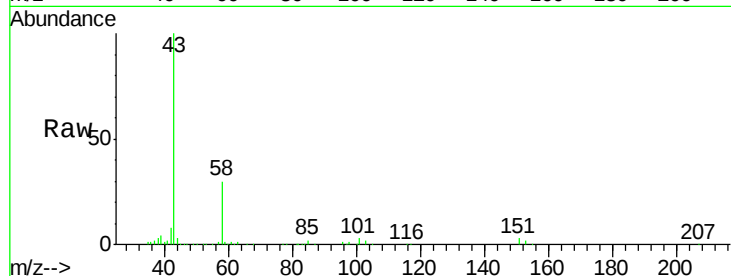
VSTD05064

Tot Ion: 43 Resp: 138600

Ion Ratio Lower Upper

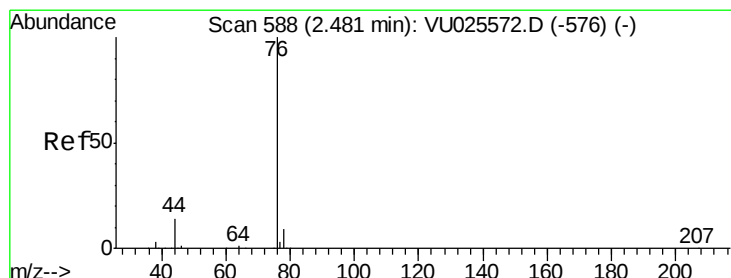
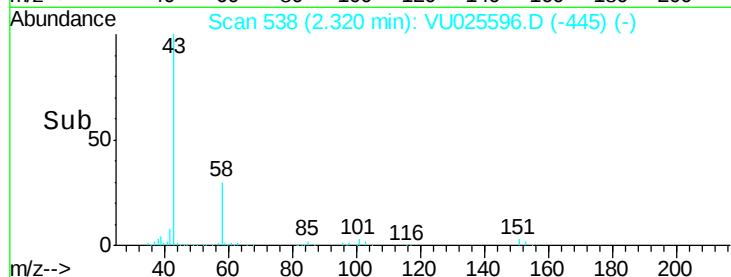
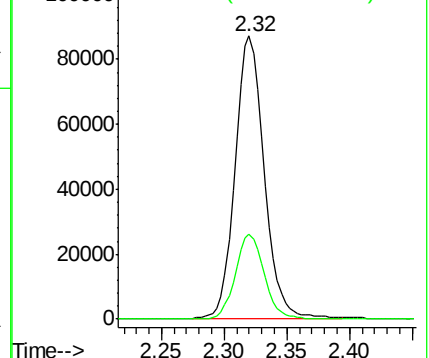
43 100

58 29.6 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 46.815 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025596.D

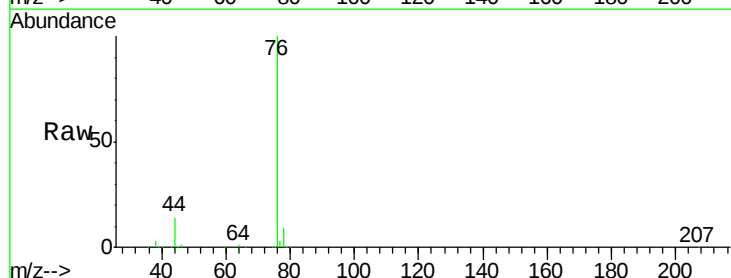
Acq: 23 Jul 2018 11:23

Tgt Ion: 76 Resp: 261110

Ion Ratio Lower Upper

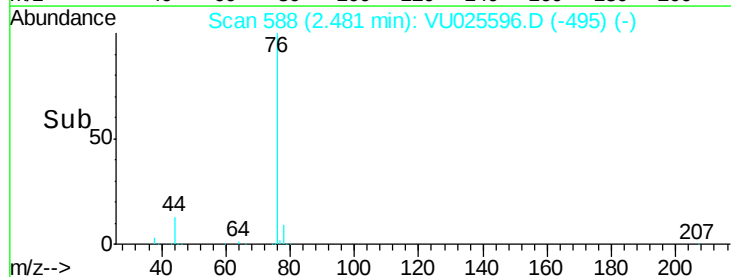
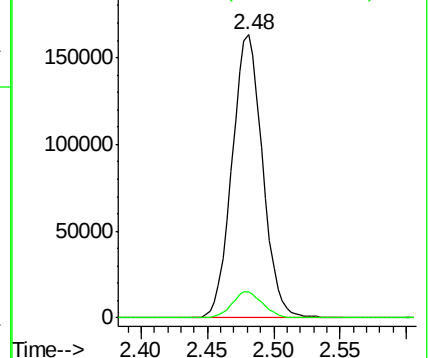
76 100

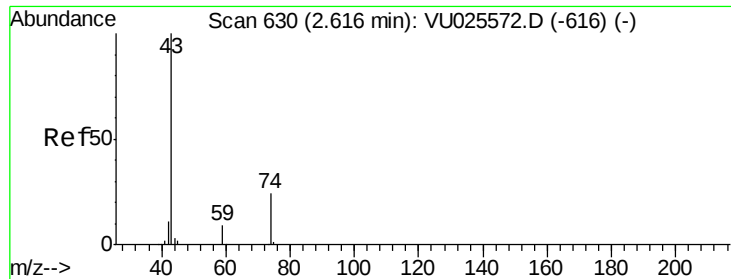
78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

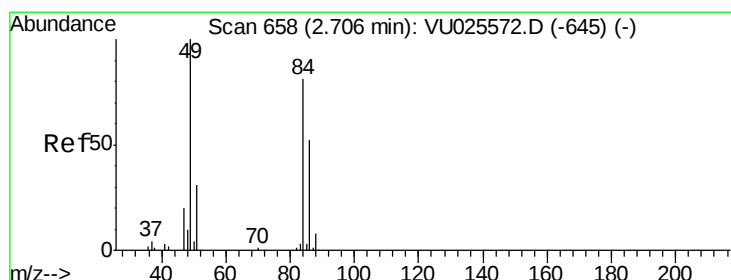
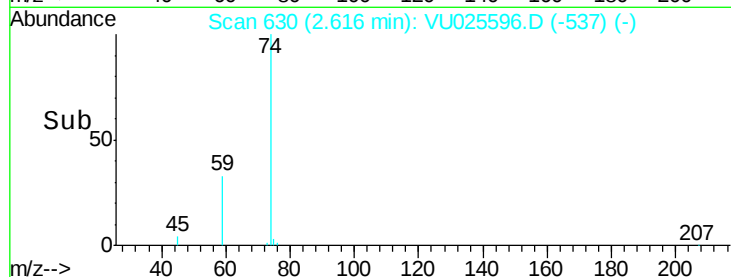
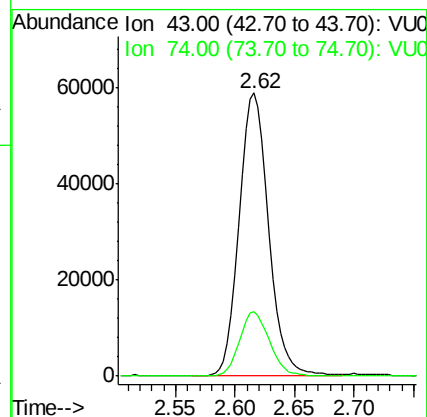
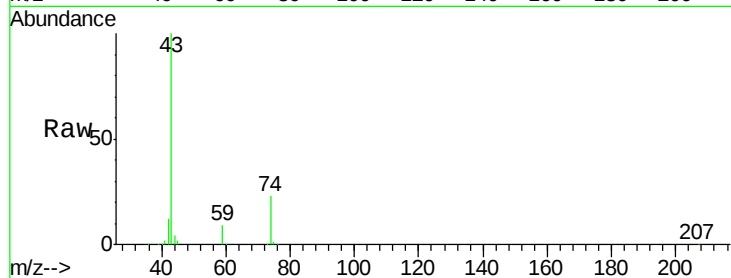




#15
Methvl Acetate
Concen: 46.786 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU025596.D
Acq: 23 Jul 2018 11:23

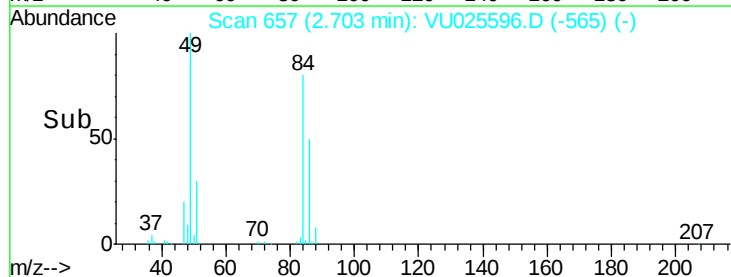
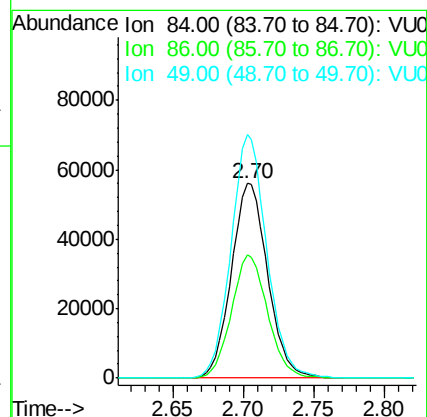
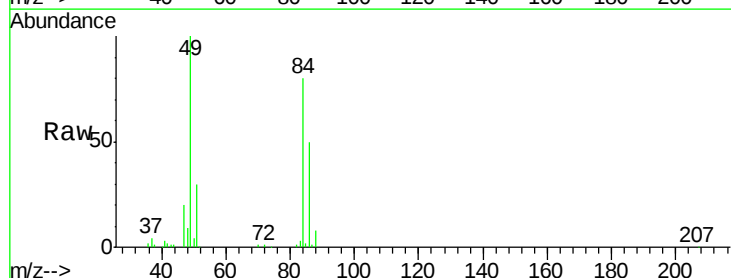
Instrument :
MSVOA_U
ClientSampleId :
VSTD05064

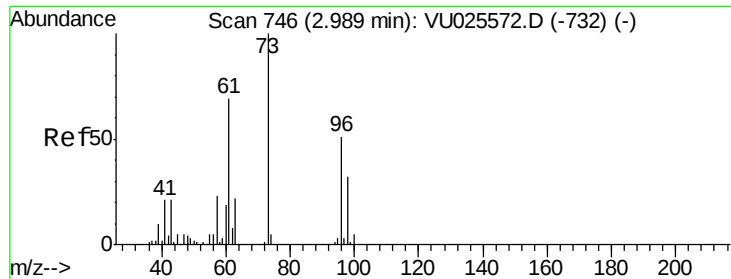
Tot Ion: 43 Resp: 101547
Ion Ratio Lower Upper
43 100
74 23.1 18.3 27.5



#16
Methylene chloride
Concen: 47.298 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU025596.D
Acq: 23 Jul 2018 11:23

Tgt Ion: 84 Resp: 100921
Ion Ratio Lower Upper
84 100
86 63.0 45.6 84.6
49 125.0 87.0 161.6





#17

trans-1,2-Dichloroethene

Concen: 47.141 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

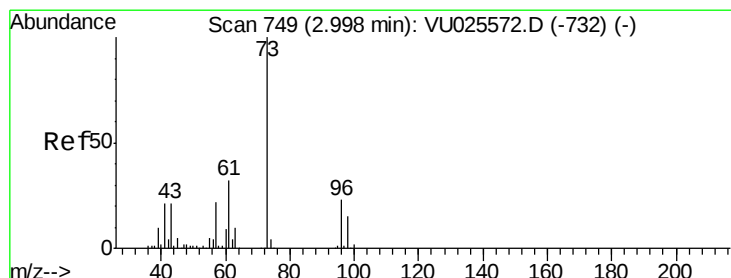
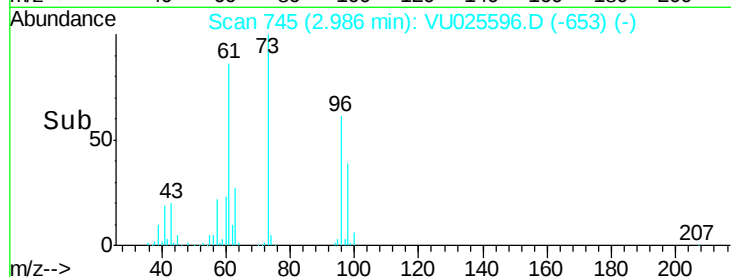
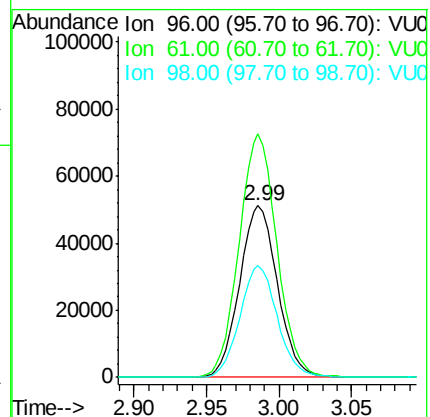
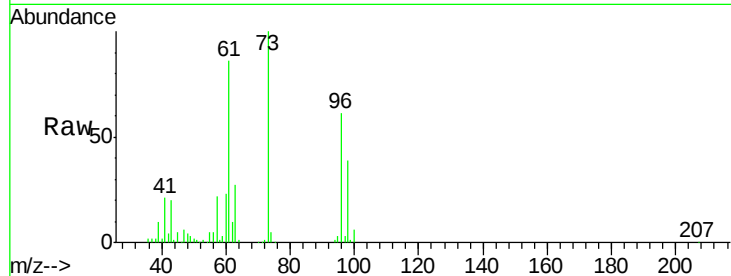
Tot Ion: 96 Resp: 92969

Ion Ratio Lower Upper

96 100

61 141.9 100.0 185.8

98 64.9 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 47.580 ug/L

RT: 3.00 min Scan# 749

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

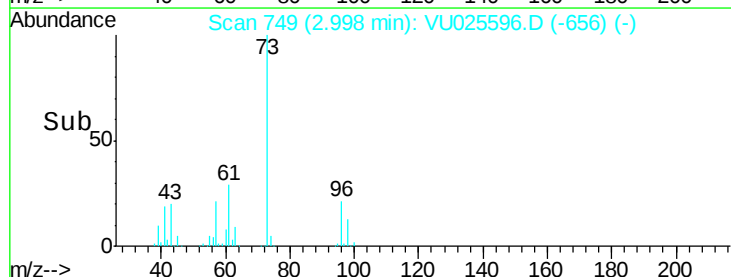
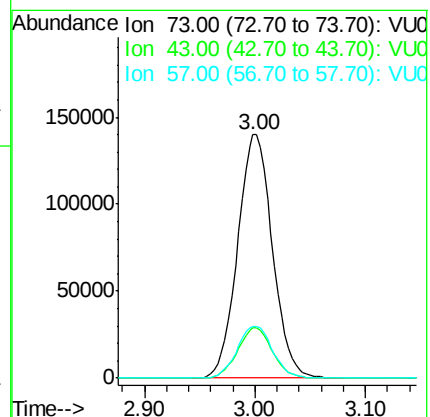
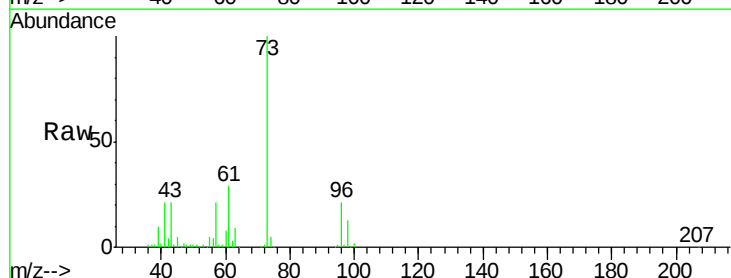
Tgt Ion: 73 Resp: 305597

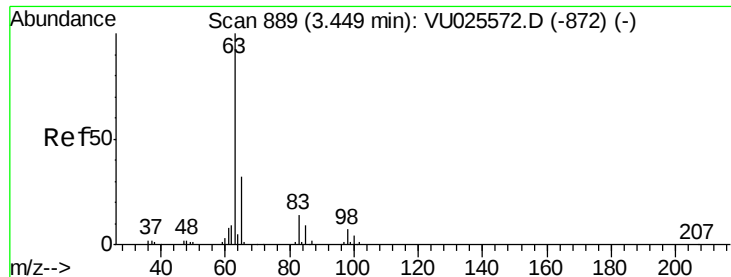
Ion Ratio Lower Upper

73 100

43 20.6 16.2 24.2

57 21.7 17.1 25.7





#19

1,1-Dichloroethane

Concen: 47.136 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

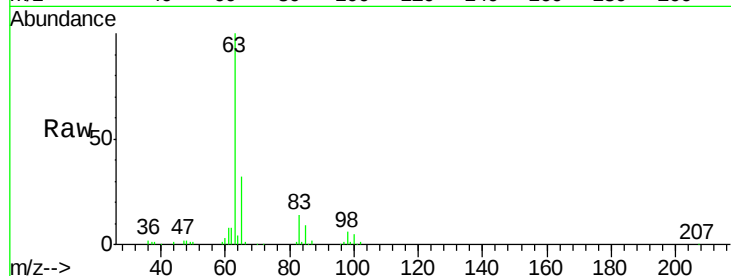
Tot Ion: 63 Resp: 176828

Ion Ratio Lower Upper

63 100

65 32.0 22.0 41.0

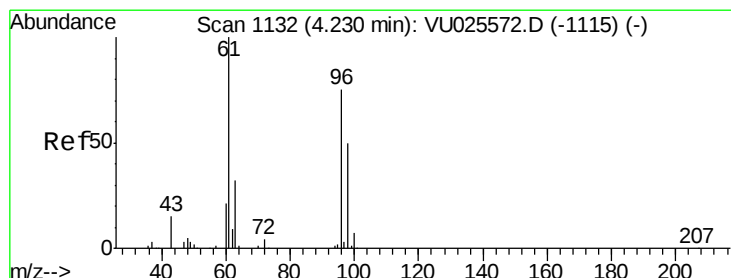
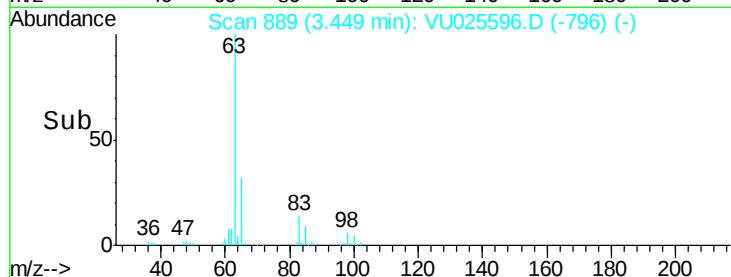
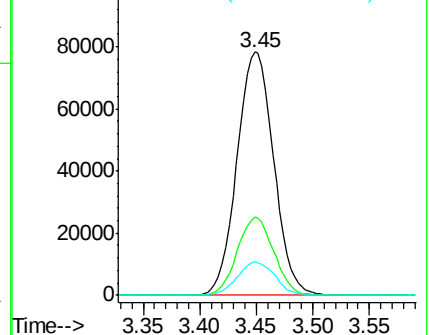
83 13.8 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 47.817 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

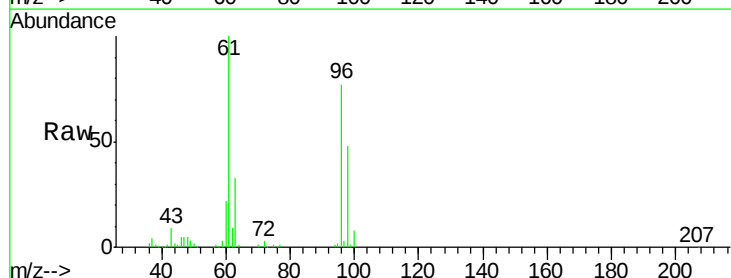
Tgt Ion: 96 Resp: 106445

Ion Ratio Lower Upper

96 100

61 129.5 87.4 162.2

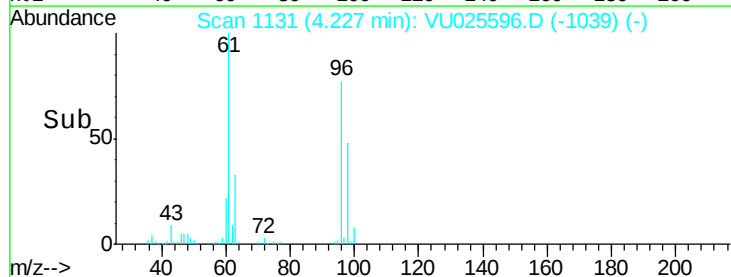
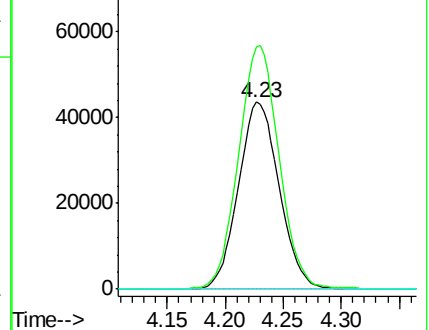
68 0.0 0.0 0.0

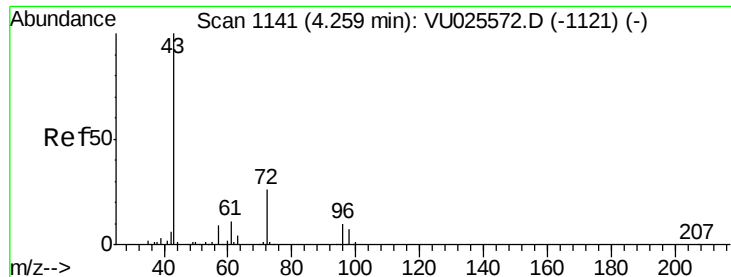


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 91.381 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

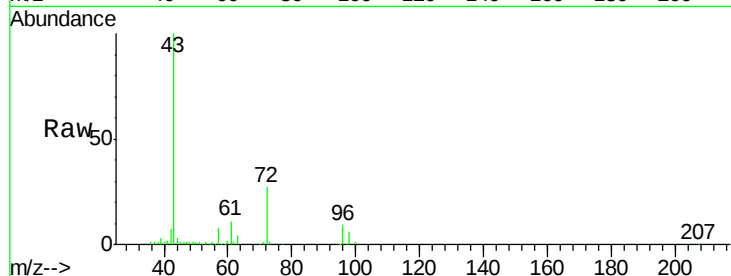
Instrument :
MSVOA_U
ClientSampleId :
VSTD05064

Tot Ion: 43 Resp: 159727

Ion Ratio Lower Upper

43 100

72 27.4 13.6 40.8



Abundance Ion 43.00 (42.70 to 43.70): VU025596.D (-1142) (-)

Ion 72.00 (71.70 to 72.70): VU025596.D (-1142) (-)

4.26

60000

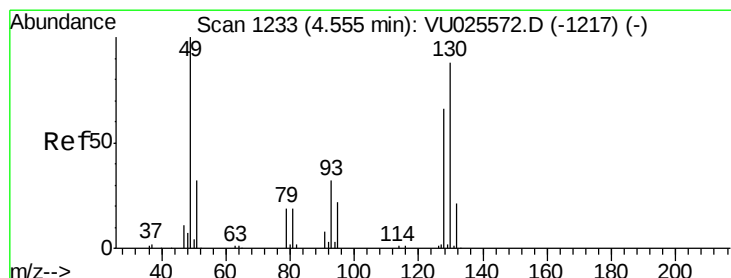
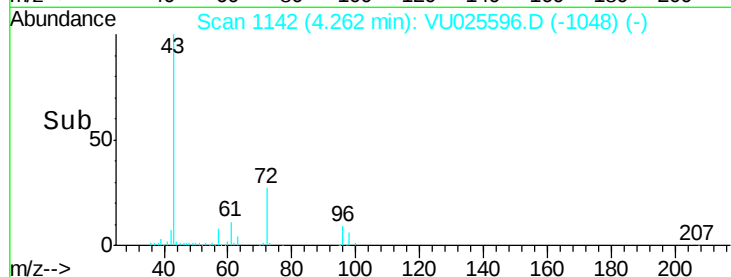
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 48.567 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Tgt Ion: 128 Resp: 57065

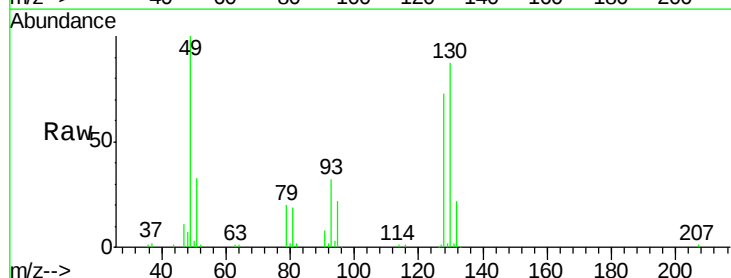
Ion Ratio Lower Upper

128 100

49 136.8 103.3 191.8

130 118.6 90.4 167.8

51 44.9 35.5 53.3



Abundance Ion 128.00 (127.70 to 128.70): VU025596.D (-1233) (-)

Ion 49.00 (48.70 to 49.70): VU025596.D (-1233) (-)

Ion 130.00 (129.70 to 130.70): VU025596.D (-1233) (-)

Ion 51.00 (50.70 to 51.70): VU025596.D (-1233) (-)

50000

40000

30000

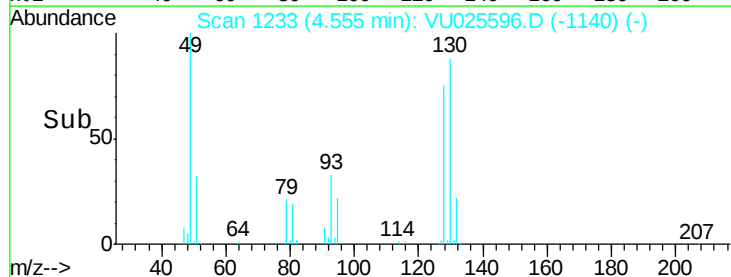
20000

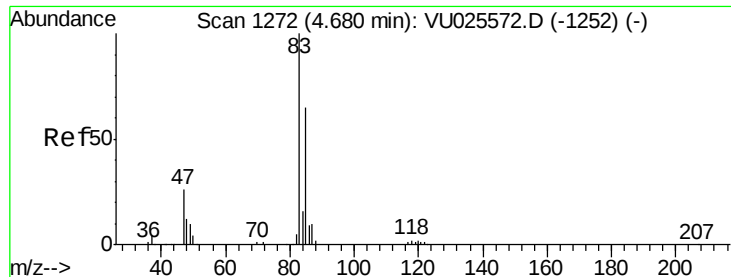
10000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 47.787 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

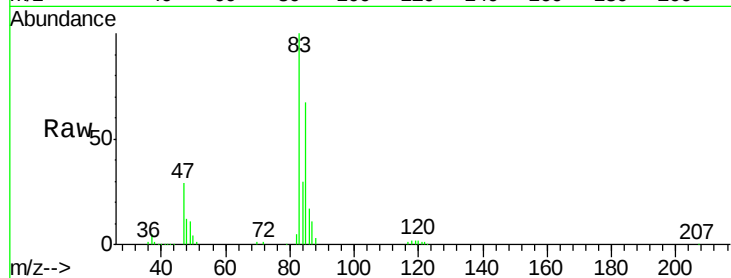
VSTD05064

Tot Ion: 83 Resp: 188642

Ion Ratio Lower Upper

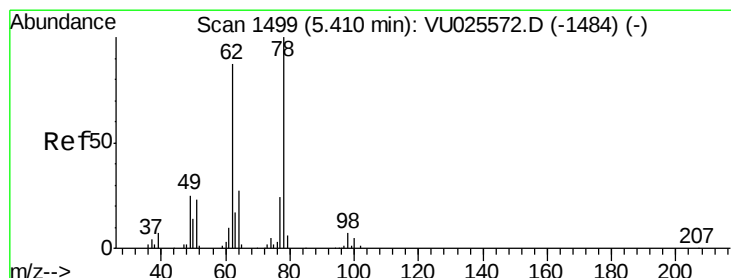
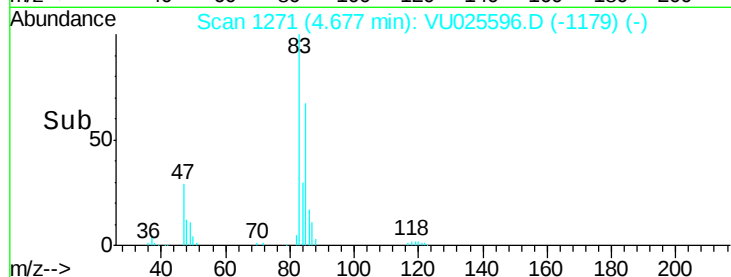
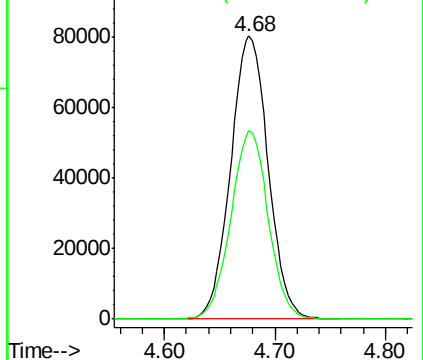
83 100

85 66.5 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 47.633 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU025596.D

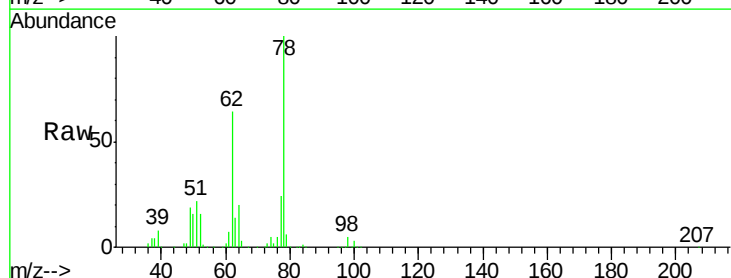
Acq: 23 Jul 2018 11:23

Tgt Ion: 62 Resp: 153371

Ion Ratio Lower Upper

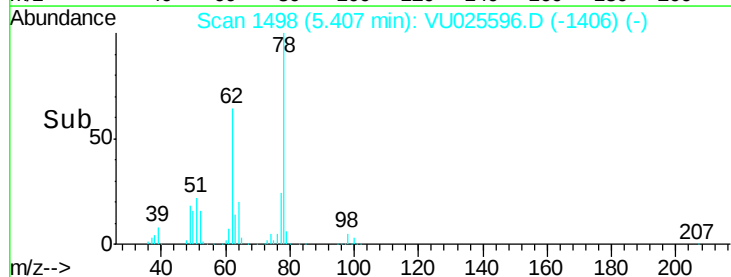
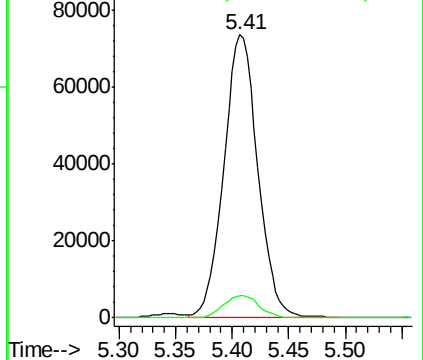
62 100

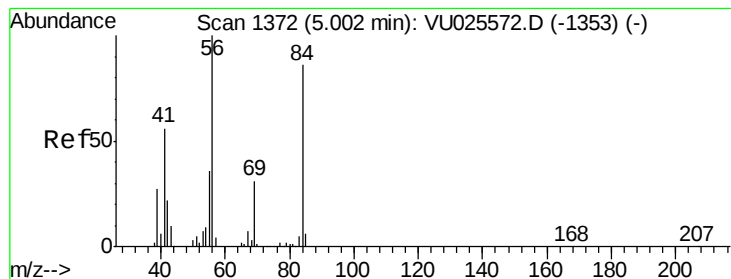
98 7.9 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#29

Cyclohexane

Concen: 47.284 ug/L

RT: 5.00 min Scan# 1371

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

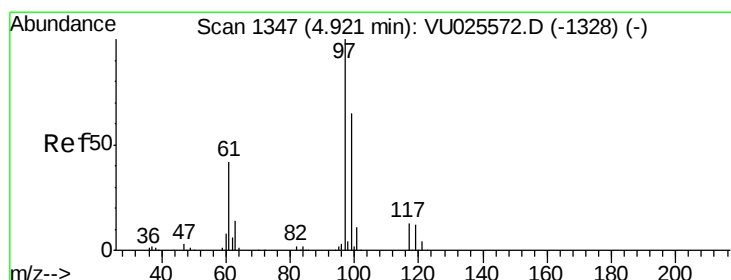
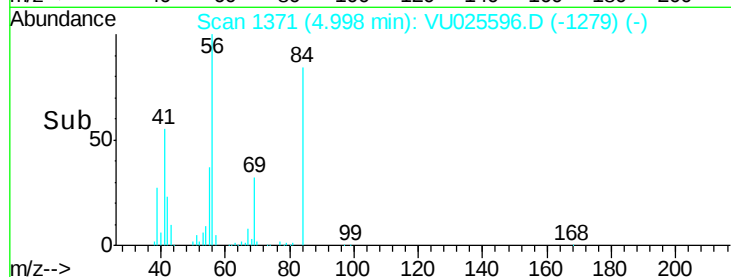
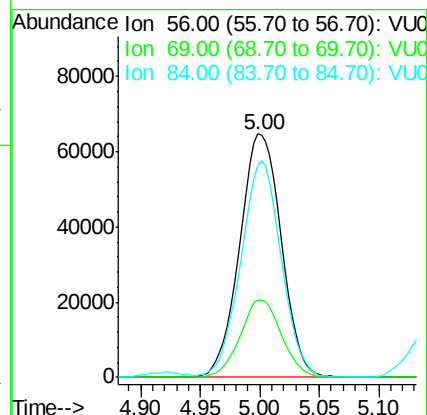
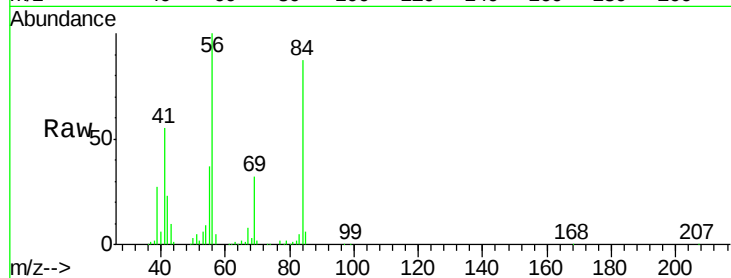
Tot Ion: 56 Resp: 157055

Ion Ratio Lower Upper

56 100

69 31.4 24.8 37.2

84 86.3 70.6 106.0



#30

1,1,1-Trichloroethane

Concen: 47.586 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

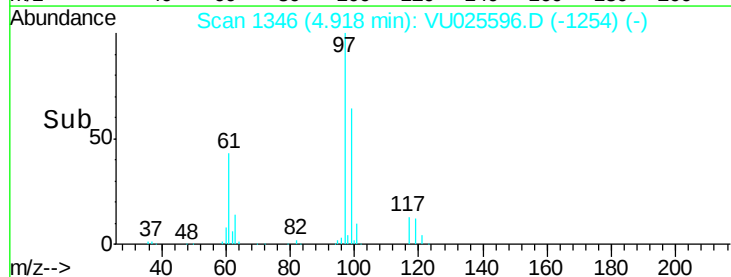
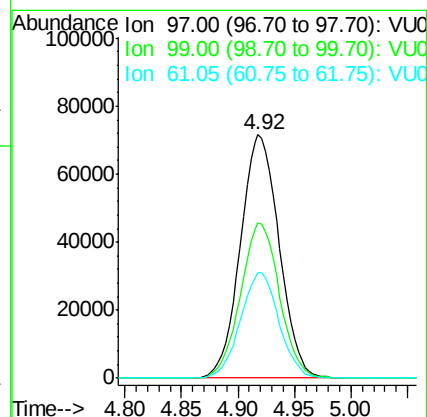
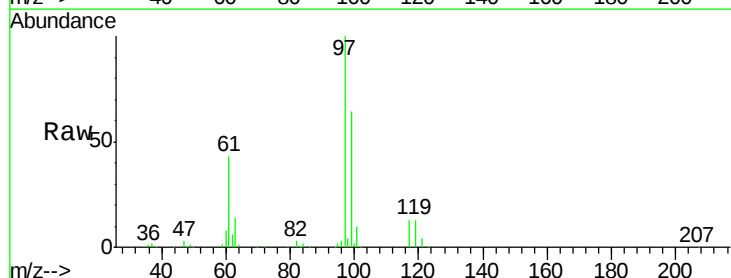
Tgt Ion: 97 Resp: 170717

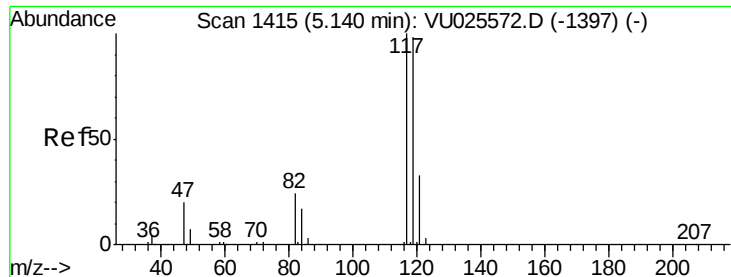
Ion Ratio Lower Upper

97 100

99 63.9 52.4 78.6

61 43.0 34.6 52.0





#31

Carbon tetrachloride

Concen: 46.501 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

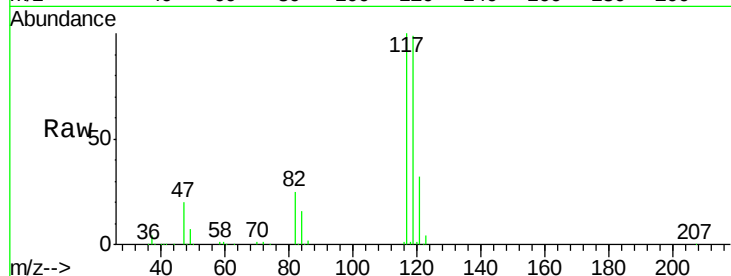
VSTD05064

Tot Ion:117 Resp: 154260

Ion Ratio Lower Upper

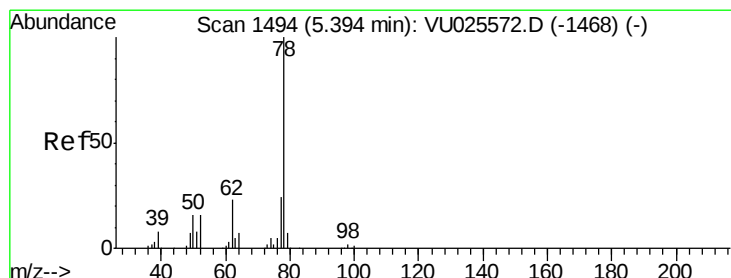
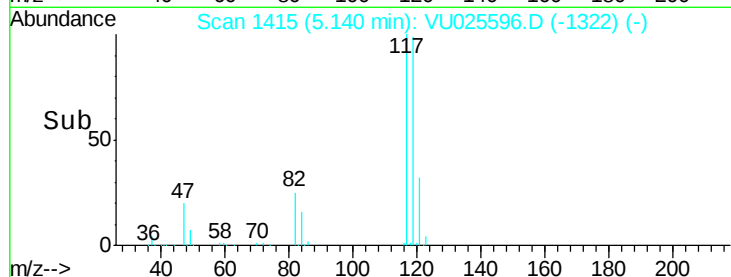
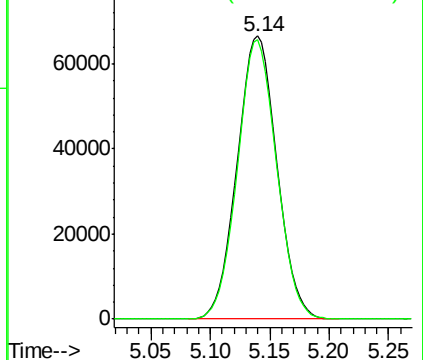
117 100

119 97.1 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.194 ug/L

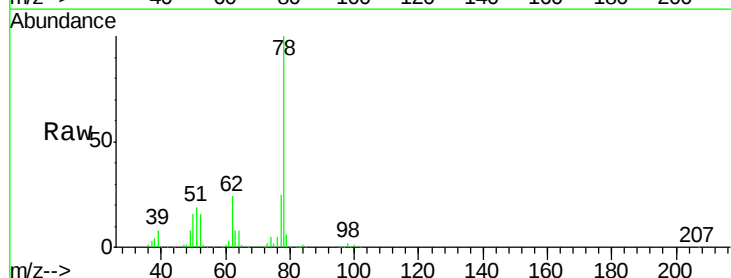
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

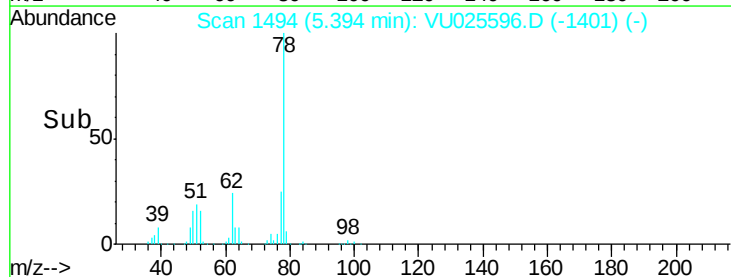
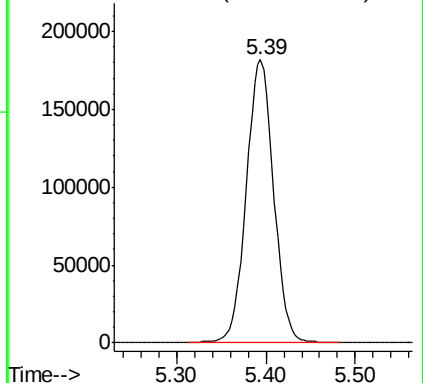
Lab File: VU025596.D

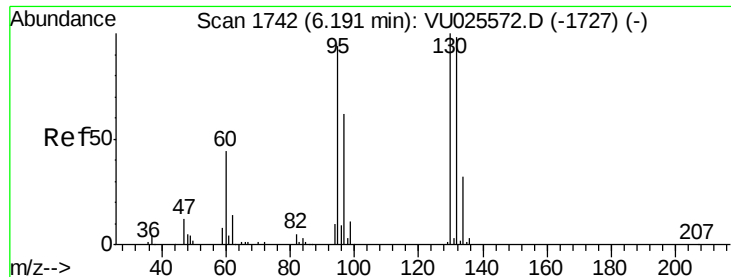
Acq: 23 Jul 2018 11:23

Tgt Ion: 78 Resp: 388769



Abundance Ion 78.00 (77.70 to 78.70): VU0

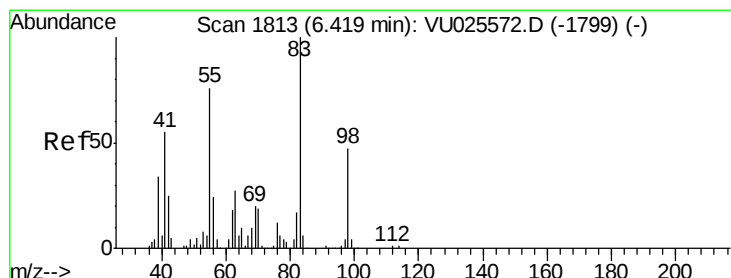
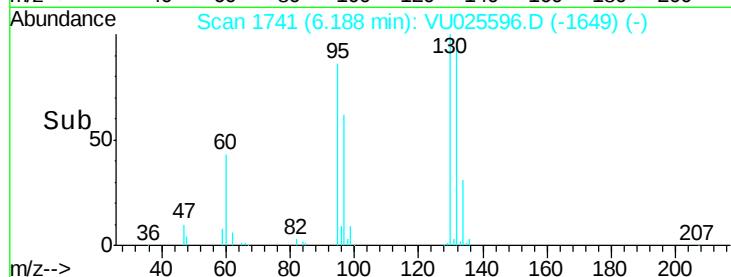
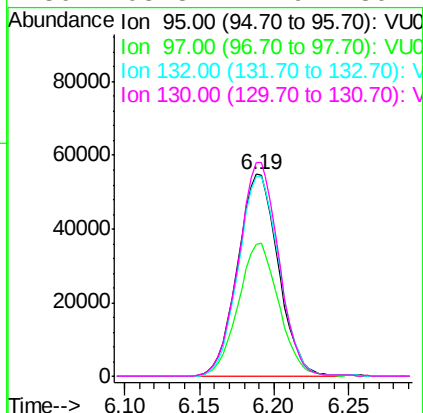
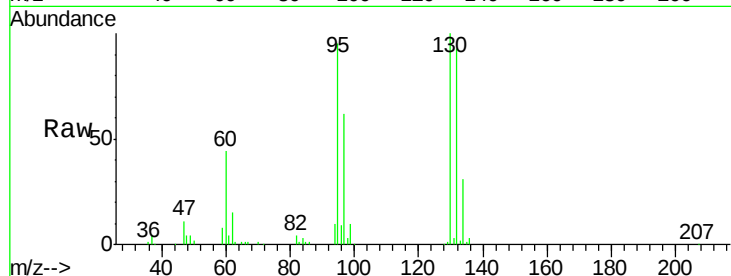




#34
 Trichloroethene
 Concen: 47.743 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

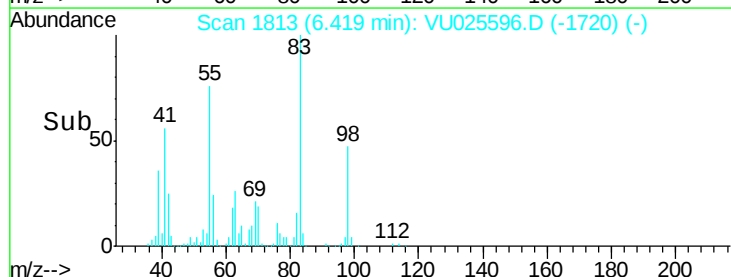
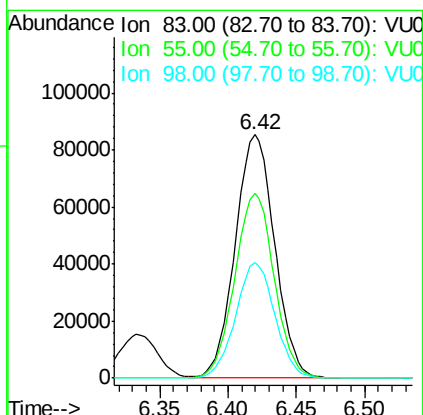
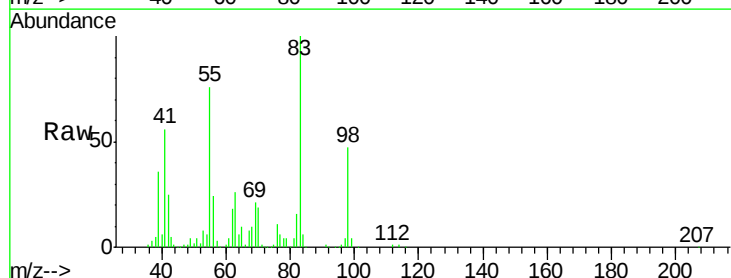
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05064

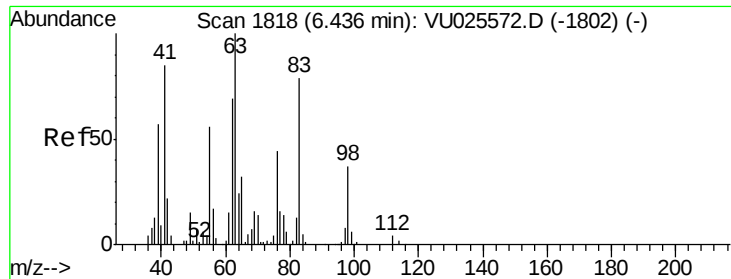
Tot Ion:	95	Resp:	104353
Ion	Ratio	Lower	Upper
95	100		
97	65.3	45.9	85.3
132	98.7	72.2	134.2
130	105.8	74.9	139.1



#35
 Methylcyclohexane
 Concen: 48.793 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

Tgt Ion:	83	Resp:	171959
Ion	Ratio	Lower	Upper
83	100		
55	75.4	61.1	91.7
98	47.0	38.6	57.8





#37

1,2-Dichloropropane

Concen: 46.577 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

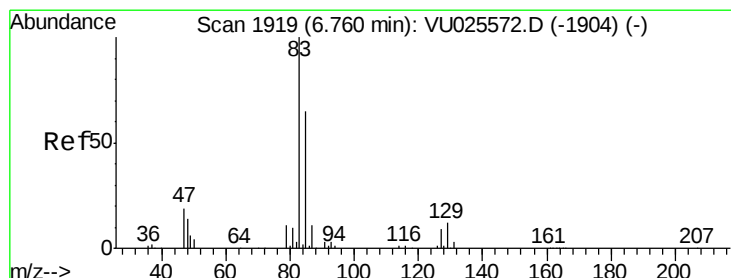
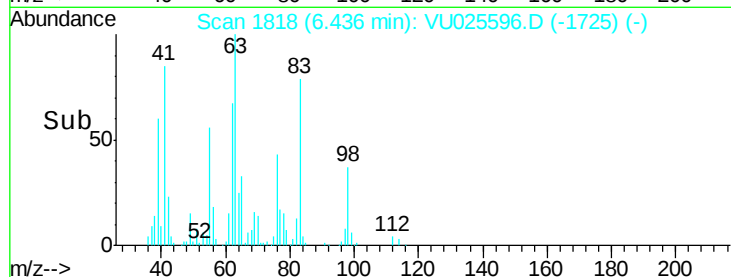
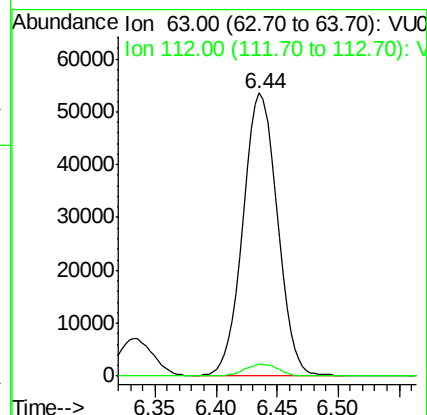
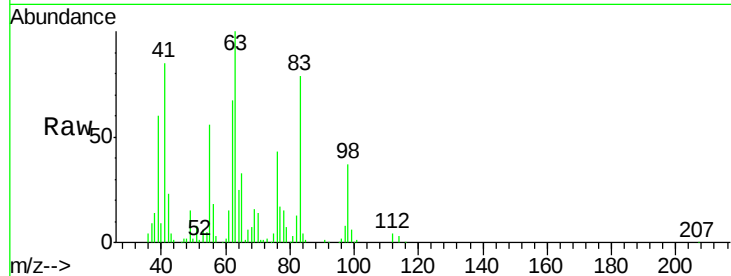
VSTD05064

Tot Ion: 63 Resp: 104849

Ion Ratio Lower Upper

63 100

112 4.2 3.3 4.9



#38

Bromodichloromethane

Concen: 47.664 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

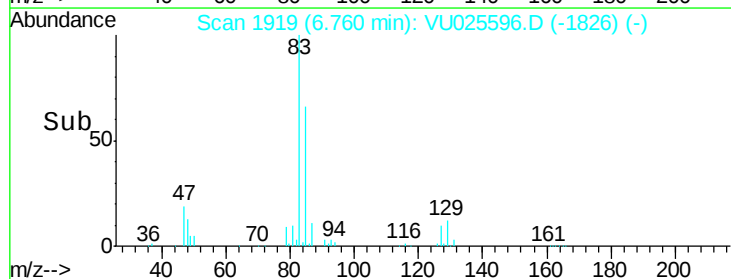
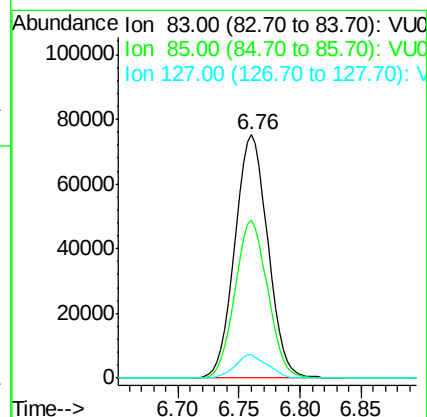
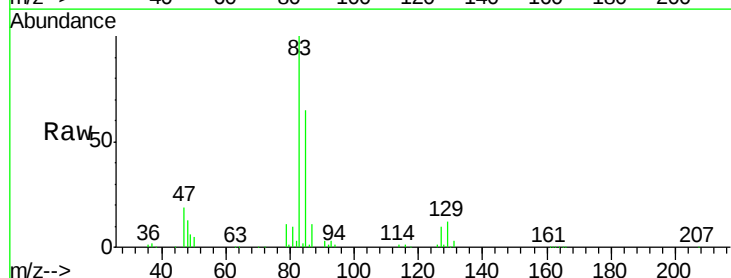
Tgt Ion: 83 Resp: 141466

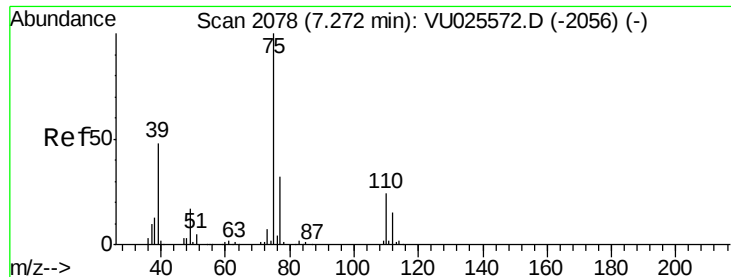
Ion Ratio Lower Upper

83 100

85 65.1 46.7 86.7

127 9.7 8.0 12.0





#39

cis-1,3-Dichloropropene

Concen: 48.322 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

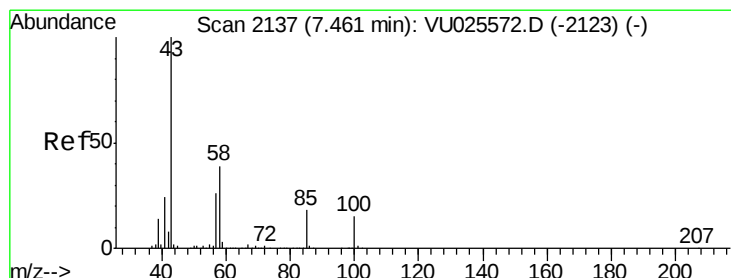
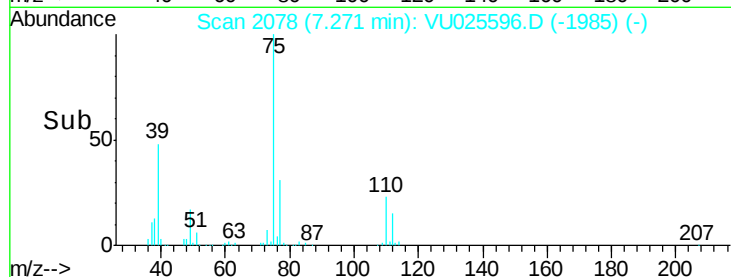
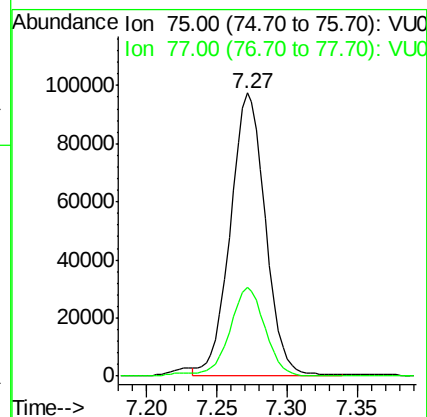
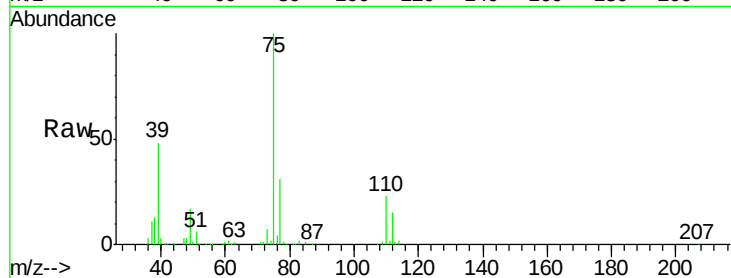
VSTD05064

Tot Ion: 75 Resp: 168812

Ion Ratio Lower Upper

75 100

77 31.2 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 96.127 ug/L

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

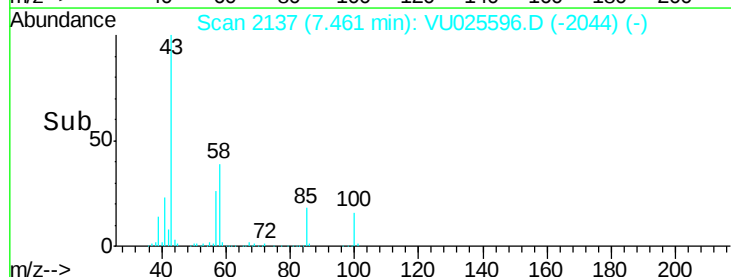
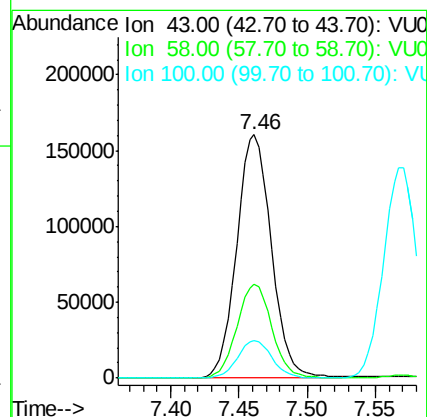
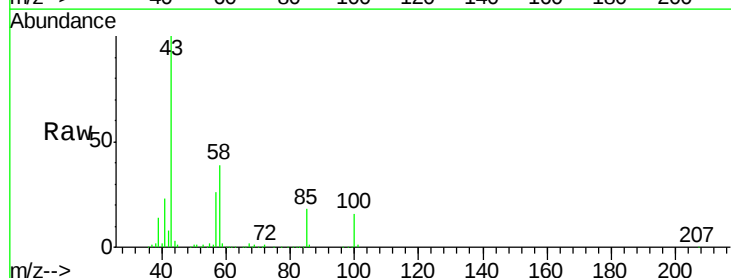
Tgt Ion: 43 Resp: 284169

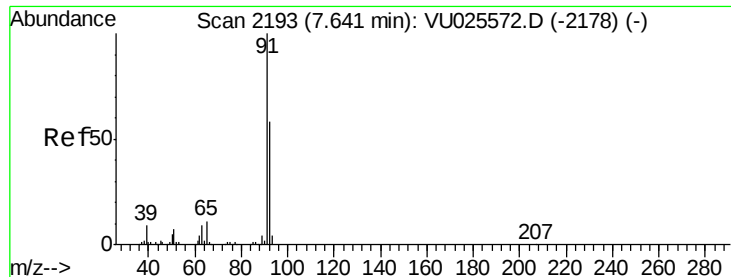
Ion Ratio Lower Upper

43 100

58 38.7 30.8 46.2

100 15.2 12.1 18.1





#42

Toluene

Concen: 47.795 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

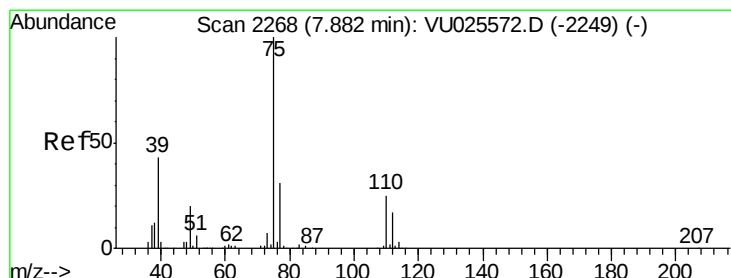
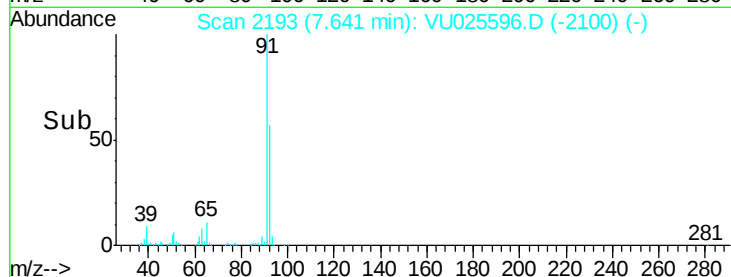
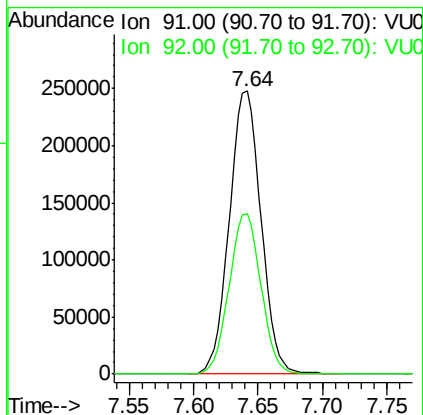
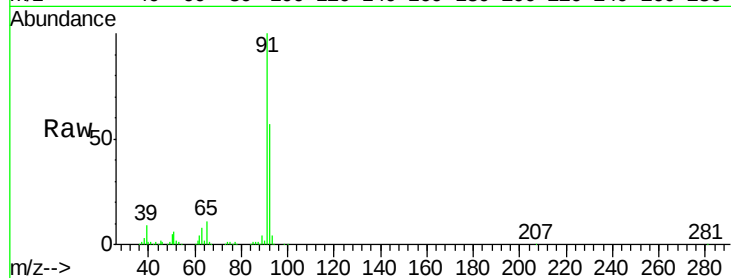
VSTD05064

Tot Ion: 91 Resp: 424600

Ion Ratio Lower Upper

91 100

92 56.7 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 49.353 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU025596.D

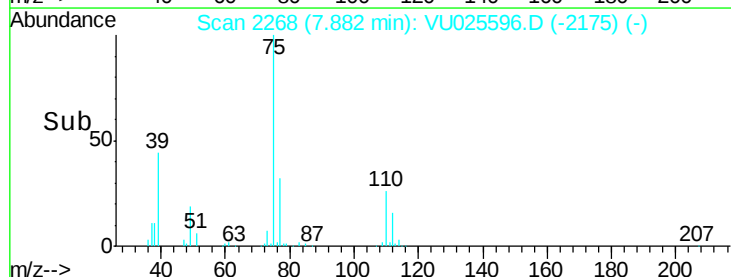
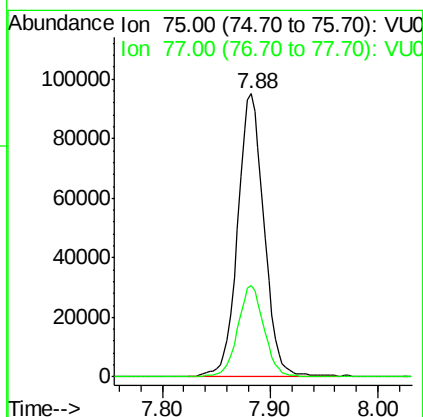
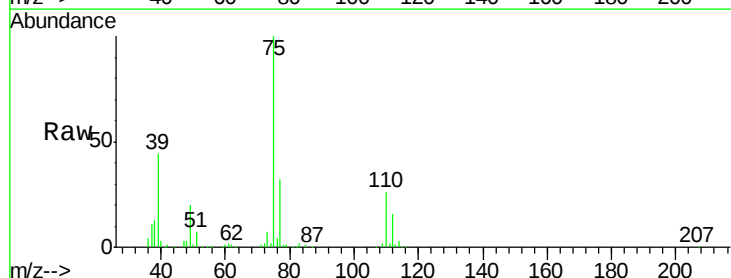
Acq: 23 Jul 2018 11:23

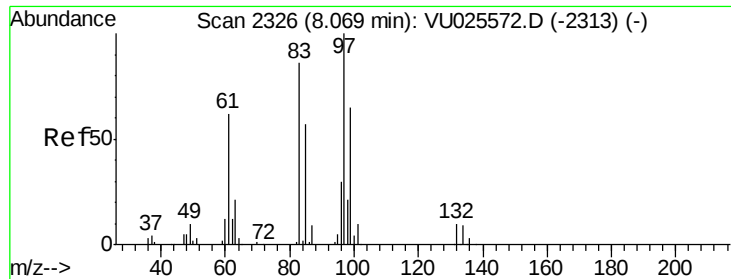
Tgt Ion: 75 Resp: 162559

Ion Ratio Lower Upper

75 100

77 32.4 22.2 41.2

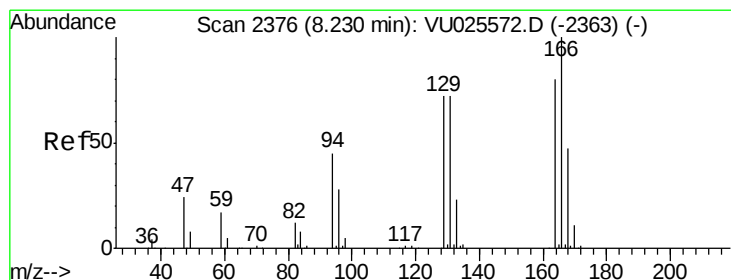
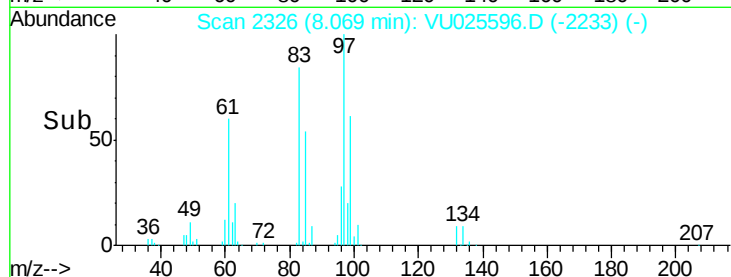
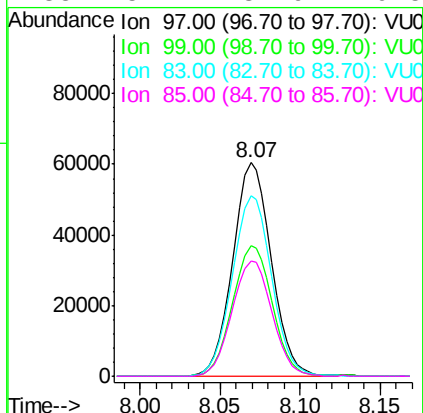
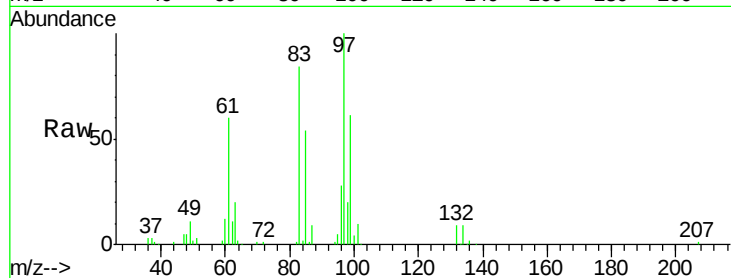




#45
 1,1,2-Trichloroethane
 Concen: 46.071 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

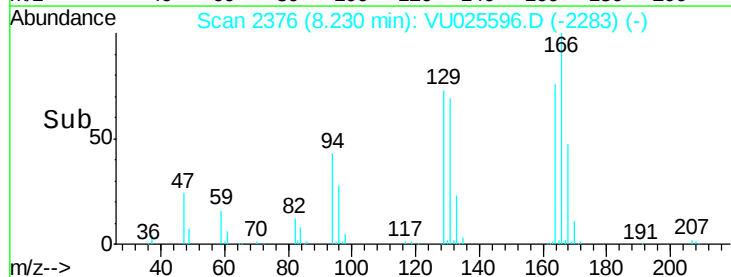
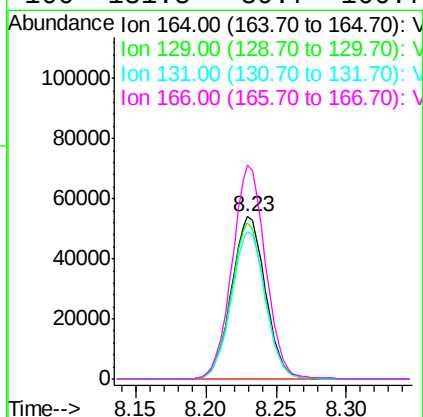
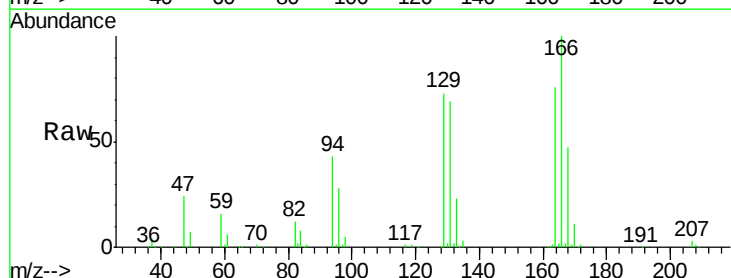
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05064

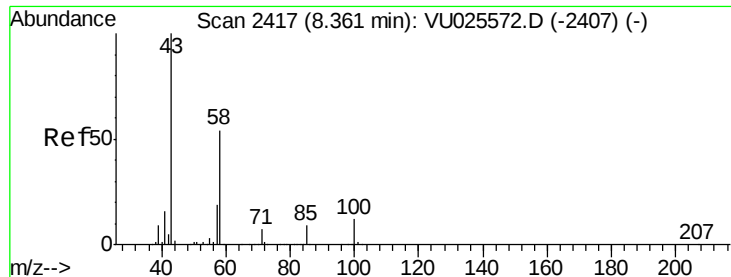
Tot Ion:	97	Resp:	99478
Ion	Ratio	Lower	Upper
97	100		
99	60.9	44.3	82.3
83	84.4	59.8	111.1
85	54.1	37.9	70.5



#46
 Tetrachloroethene
 Concen: 48.110 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

Tgt Ion:	164	Resp:	91162
Ion	Ratio	Lower	Upper
164	100		
129	96.4	65.1	120.9
131	90.5	62.8	116.6
166	131.8	89.7	166.7

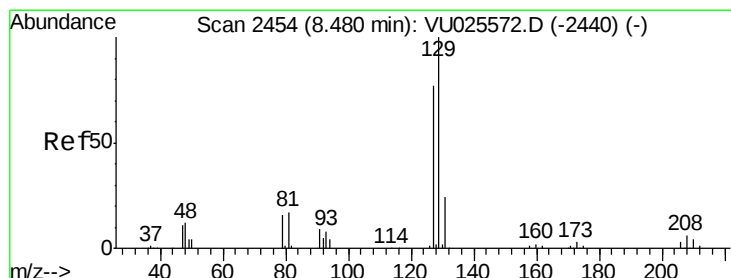
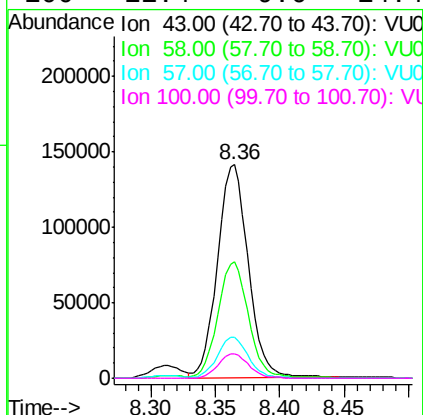
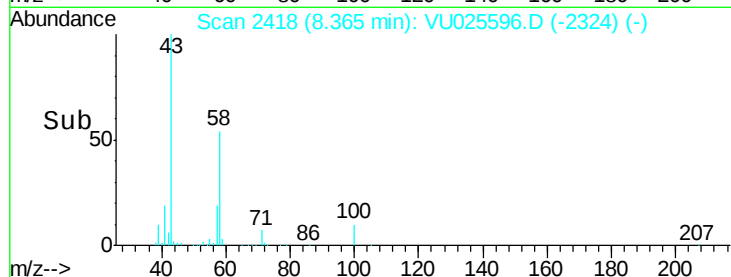
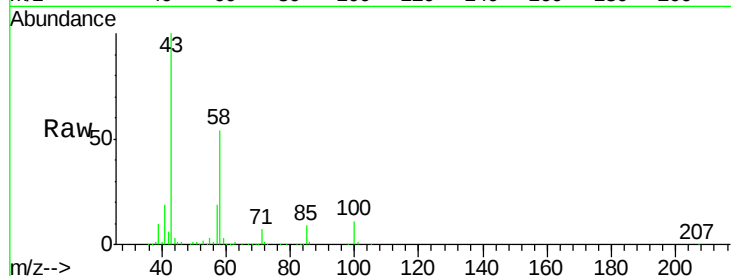




#48
2-Hexanone
Concen: 93.878 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025596.D
Acq: 23 Jul 2018 11:23

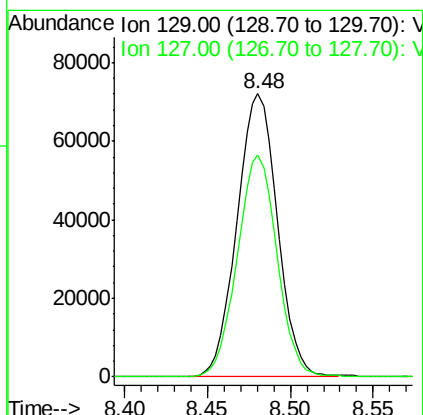
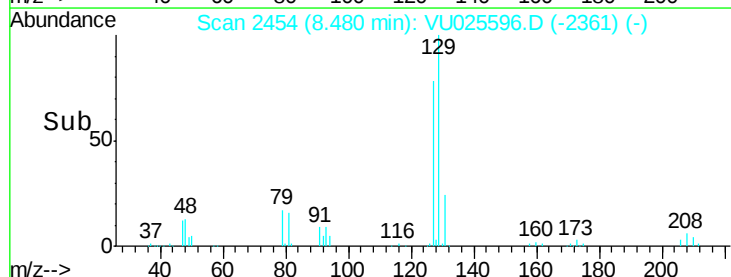
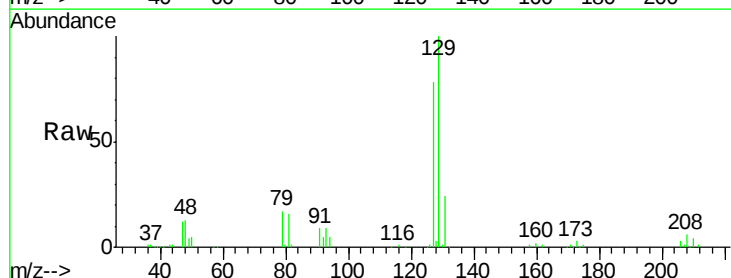
Instrument :
MSVOA_U
ClientSampleId :
VSTD05064

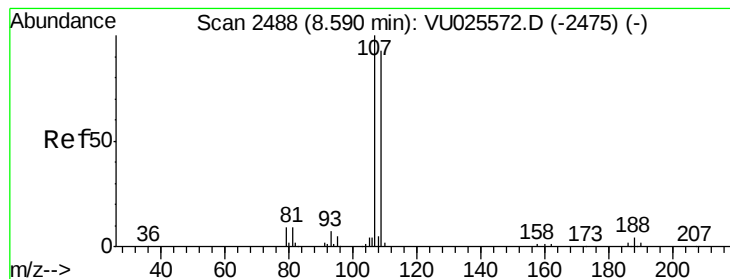
Tot Ion:	43	Resp:	234501
Ion	Ratio	Lower	Upper
43	100		
58	54.2	42.9	64.3
57	19.1	15.4	23.2
100	11.4	9.6	14.4



#49
Dibromochloromethane
Concen: 48.287 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025596.D
Acq: 23 Jul 2018 11:23

Tgt Ion:	129	Resp:	122306
Ion	Ratio	Lower	Upper
129	100		
127	78.4	53.8	100.0





#50

1,2-Dibromoethane

Concen: 46.978 ug/L

RT: 8.59 min Scan# 2488

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

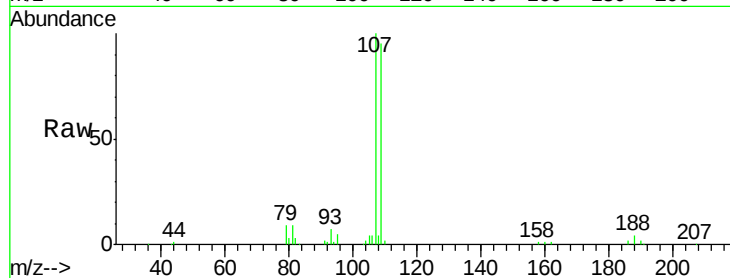
Tot Ion:107 Resp: 109283

Ion Ratio Lower Upper

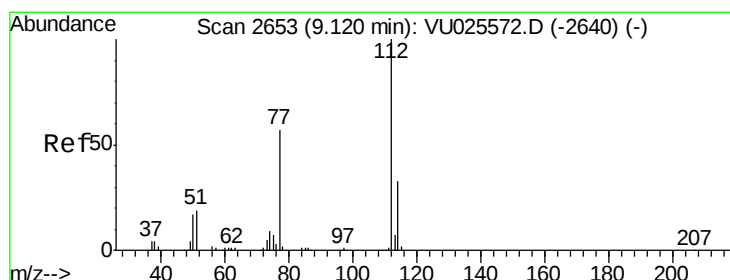
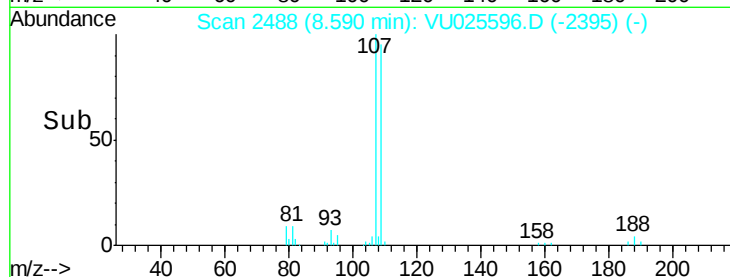
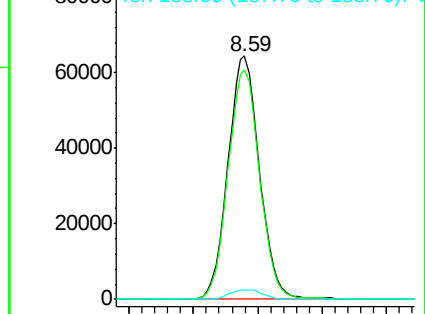
107 100

109 94.5 66.6 123.8

188 3.9 3.2 4.8



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



#51

Chlorobenzene

Concen: 47.931 ug/L

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

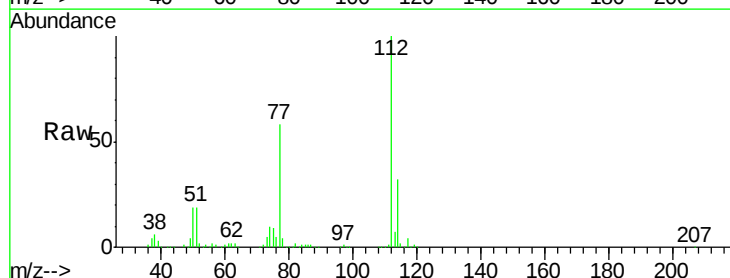
Tgt Ion:112 Resp: 286660

Ion Ratio Lower Upper

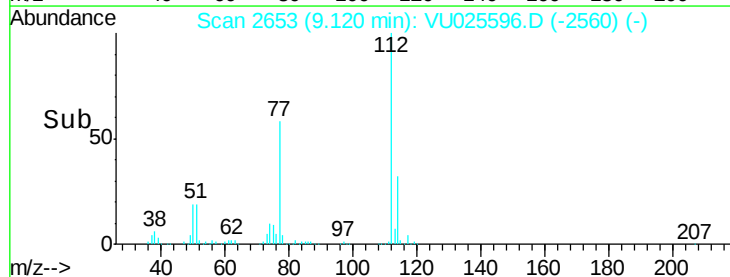
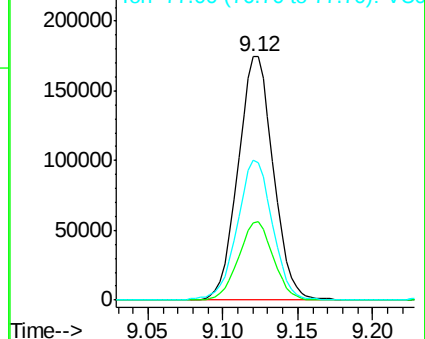
112 100

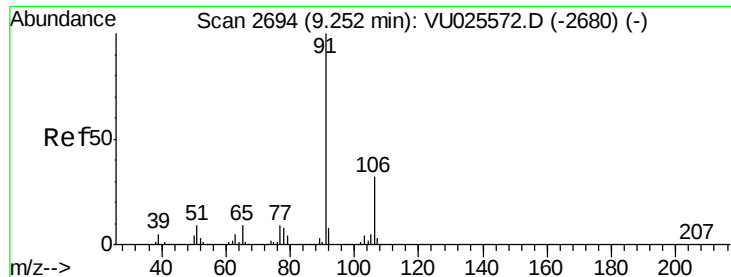
114 31.6 22.5 41.9

77 57.7 45.8 68.8



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





#52

Ethylbenzene

Concen: 48.873 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

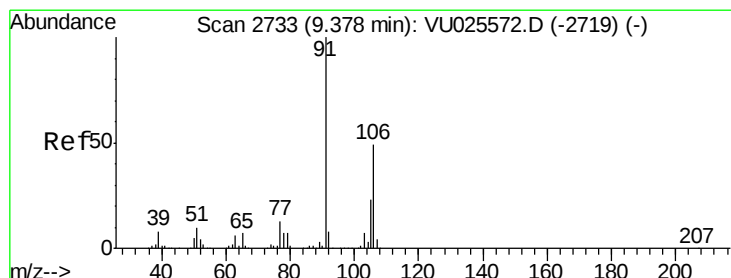
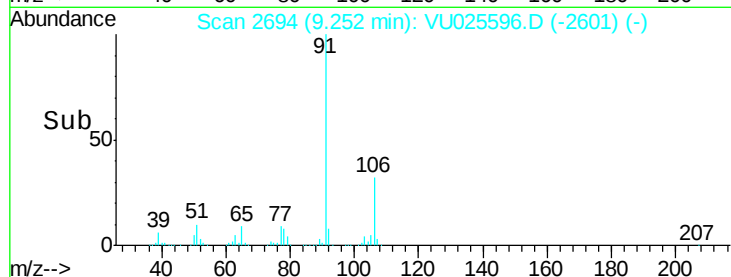
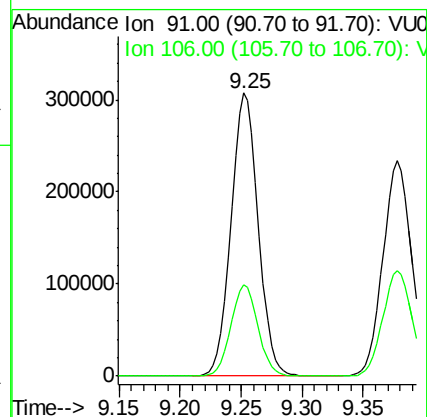
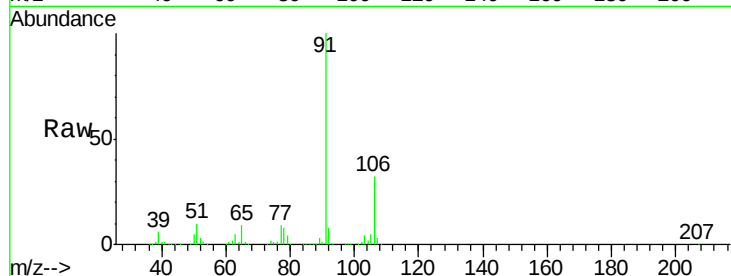
VSTD05064

Tot Ion: 91 Resp: 479208

Ion Ratio Lower Upper

91 100

106 32.3 22.3 41.5



#53

m,p-Xylene

Concen: 50.494 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU025596.D

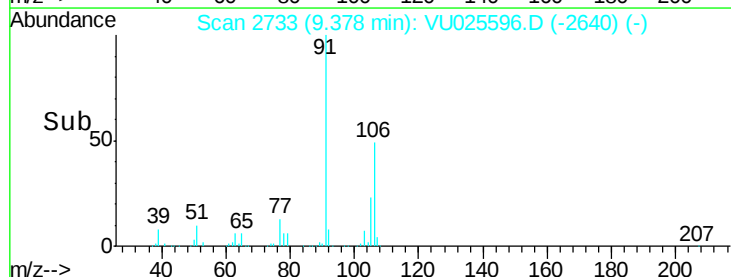
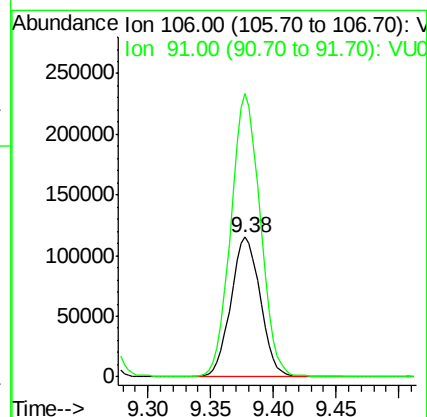
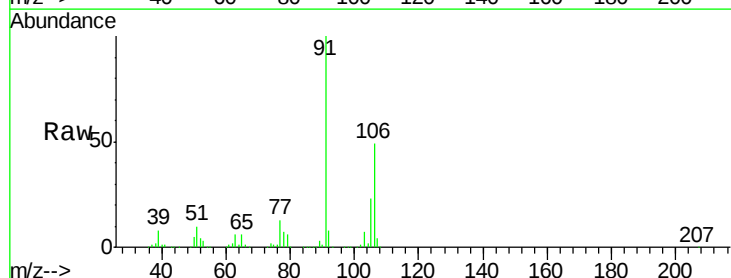
Acq: 23 Jul 2018 11:23

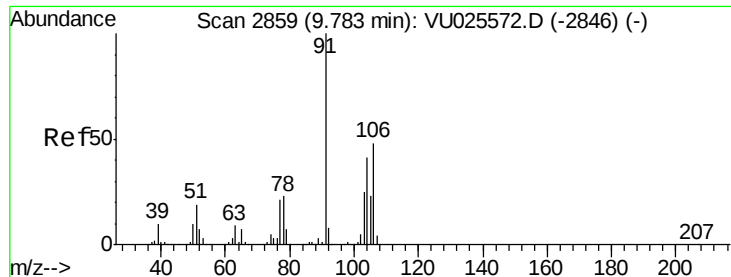
Tgt Ion: 106 Resp: 189642

Ion Ratio Lower Upper

106 100

91 202.8 141.7 263.3

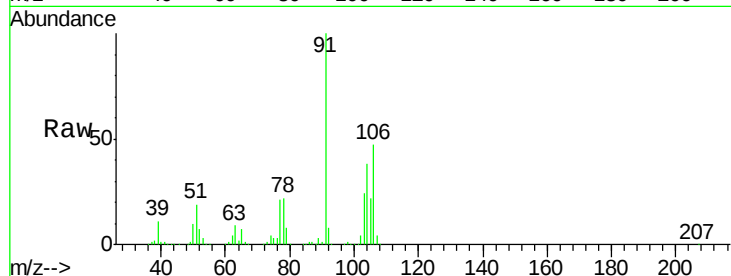




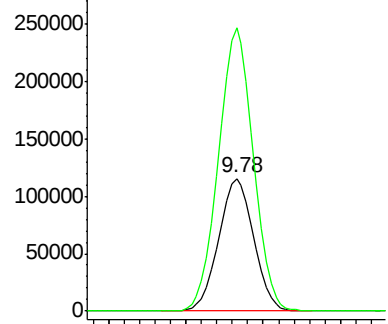
#54
o-xylene
Concen: 47.746 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025596.D
Acq: 23 Jul 2018 11:23

Instrument :
MSVOA_U
ClientSampleId :
VSTD05064

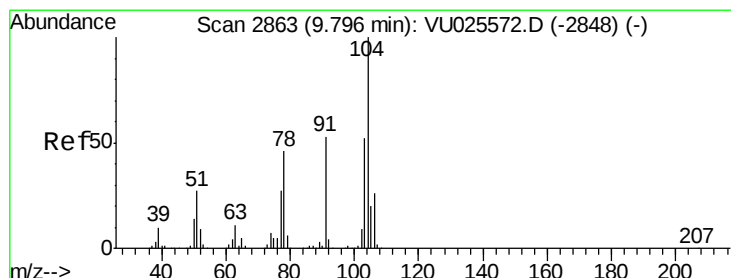
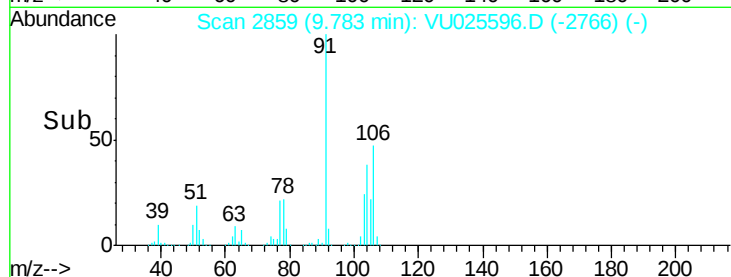
Tot Ion:106 Resp: 181957
Ion Ratio Lower Upper
106 100
91 213.3 150.6 279.6



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

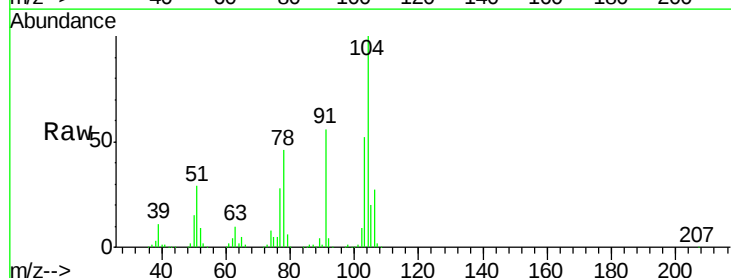


Time--> 9.70 9.75 9.80 9.85

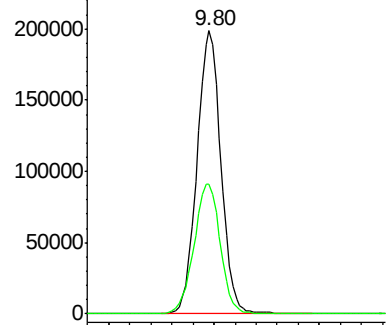


#55
Styrene
Concen: 50.163 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025596.D
Acq: 23 Jul 2018 11:23

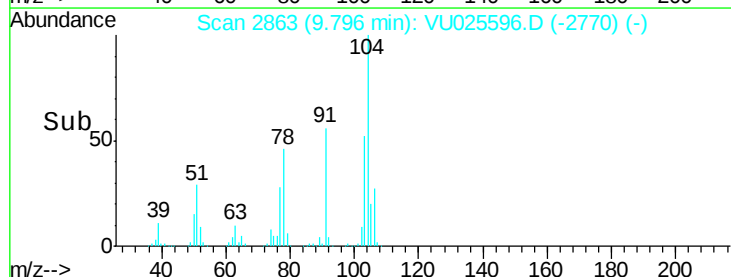
Tgt Ion:104 Resp: 311353
Ion Ratio Lower Upper
104 100
78 45.7 31.8 59.0

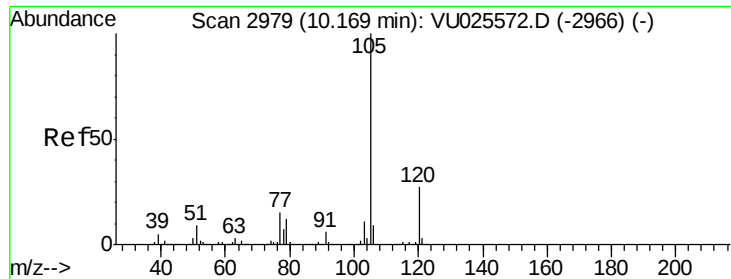


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0



Time--> 9.70 9.80 9.90





#56

Isopropylbenzene

Concen: 50.210 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

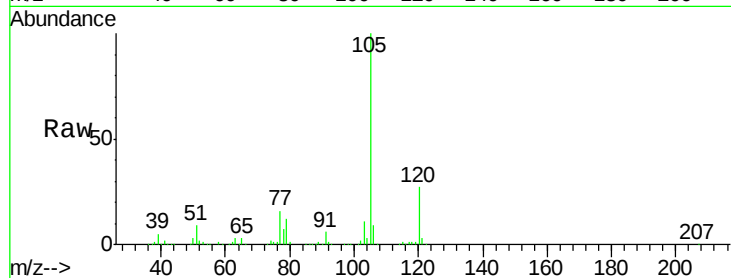
Tot Ion:105 Resp: 493806

Ion Ratio Lower Upper

105 100

120 26.8 21.7 32.5

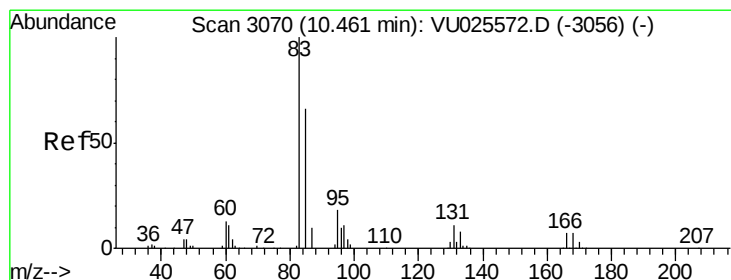
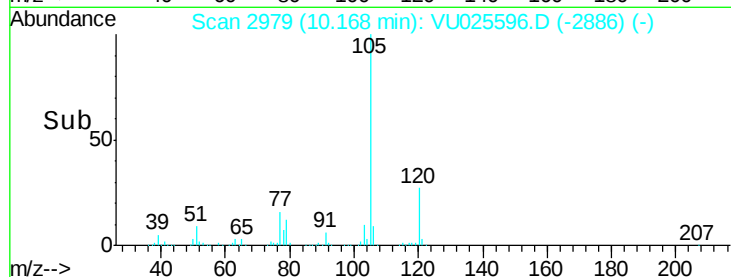
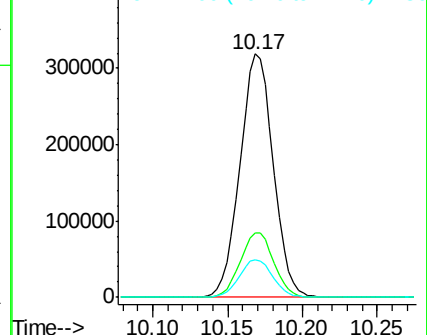
77 15.7 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.859 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

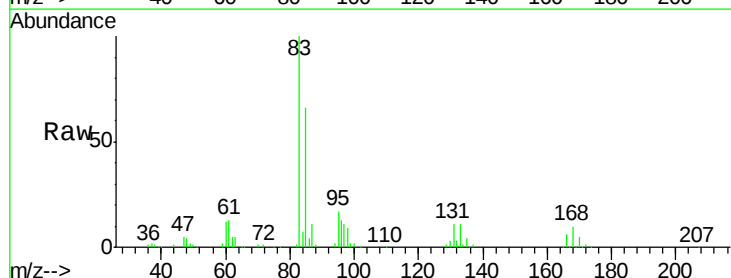
Tgt Ion: 83 Resp: 163204

Ion Ratio Lower Upper

83 100

85 66.3 45.1 83.7

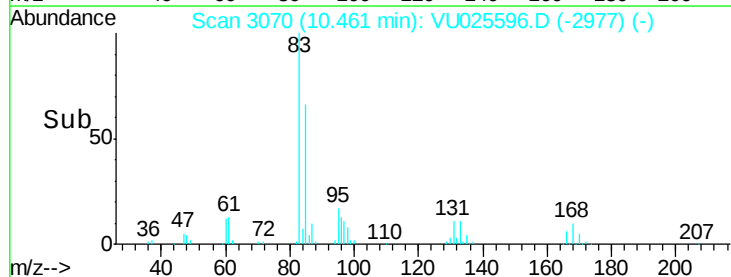
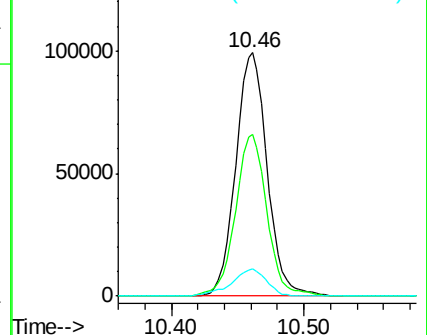
131 11.0 8.7 13.1

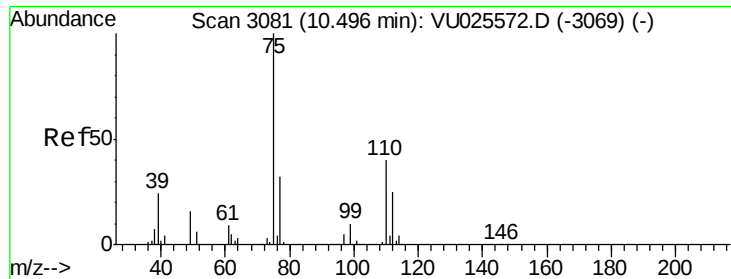


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

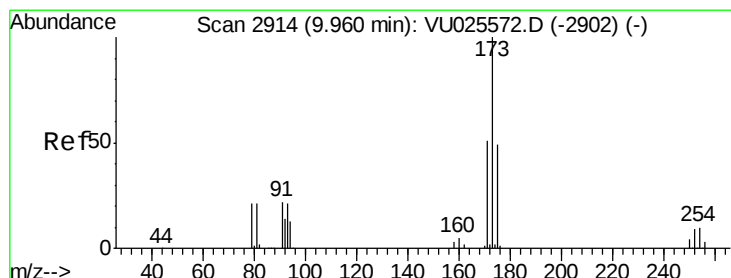
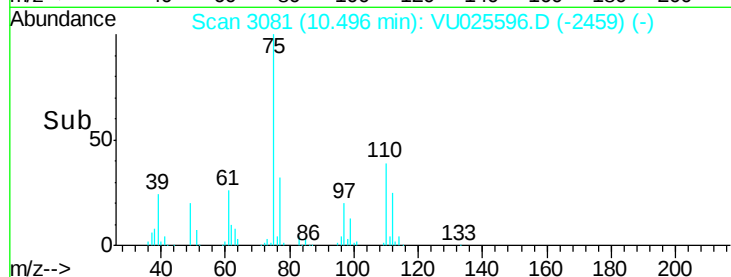
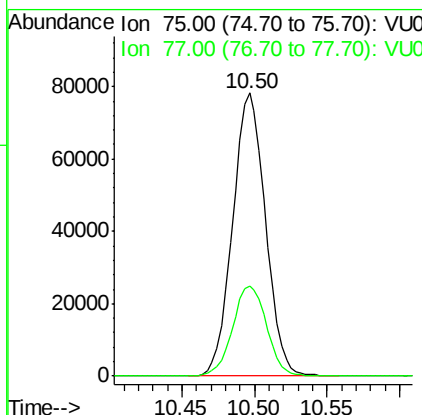
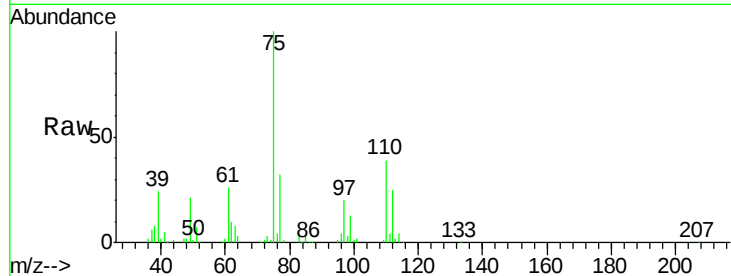




#59
 1,2,3-Trichloropropane
 Concen: 46.456 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

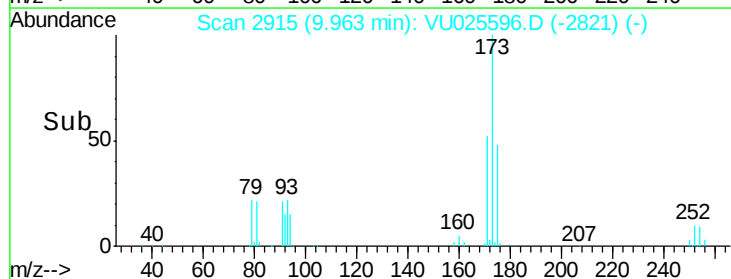
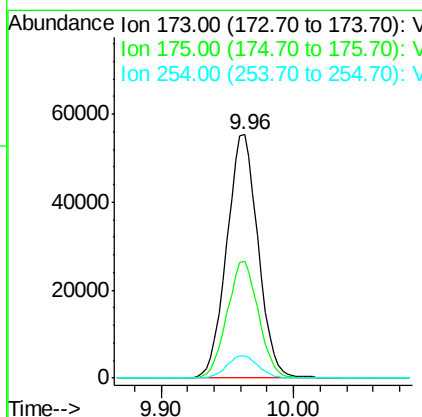
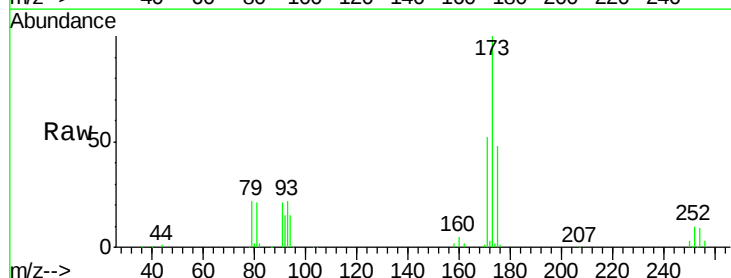
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05064

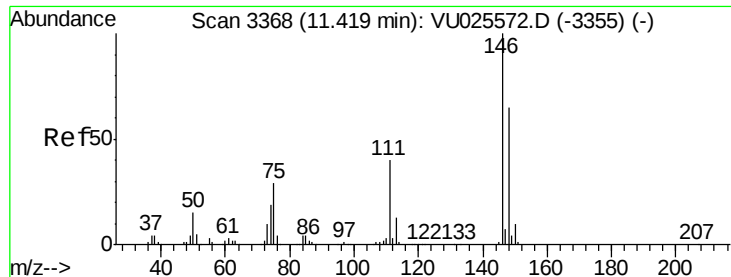
Tot Ion: 75 Resp: 122832
 Ion Ratio Lower Upper
 75 100
 77 33.1 25.8 38.8



#61
 Bromoform
 Concen: 45.256 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

Tgt Ion: 173 Resp: 90980
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.8 59.8
 254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 48.784 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

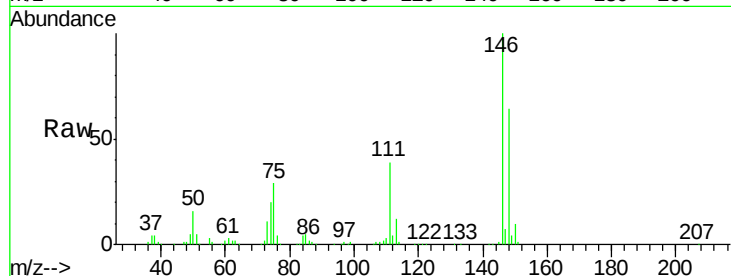
Tot Ion:146 Resp: 239834

Ion Ratio Lower Upper

146 100

111 39.2 27.7 51.5

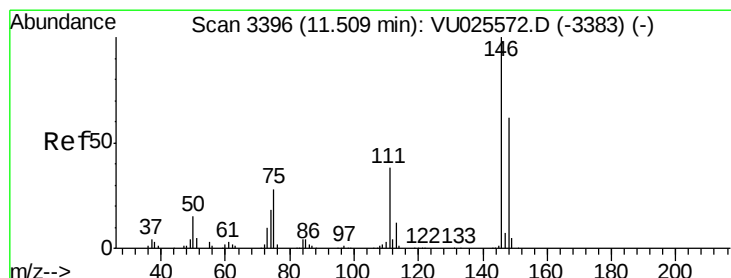
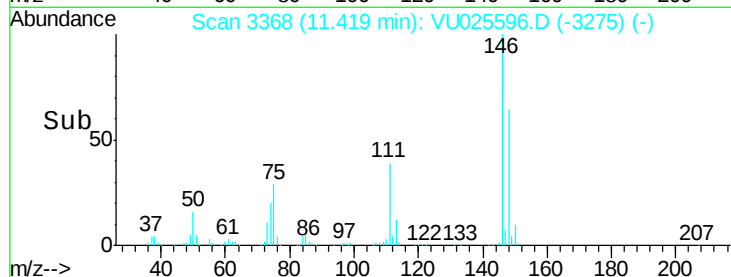
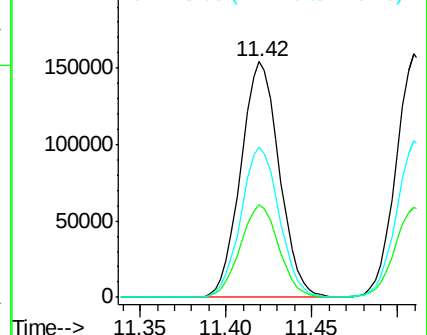
148 63.8 45.5 84.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.573 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

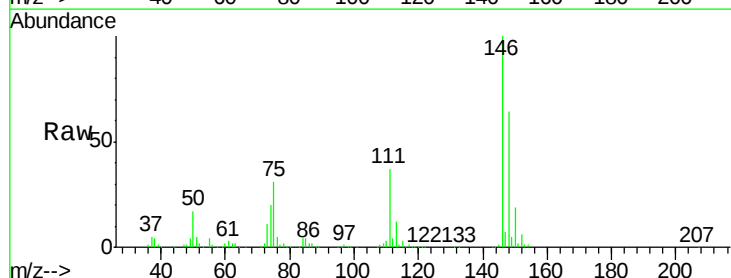
Tgt Ion:146 Resp: 243758

Ion Ratio Lower Upper

146 100

111 37.2 26.9 49.9

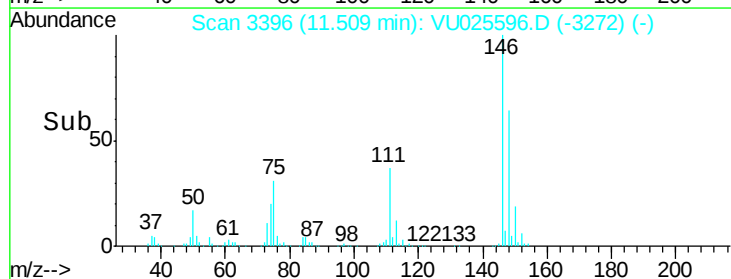
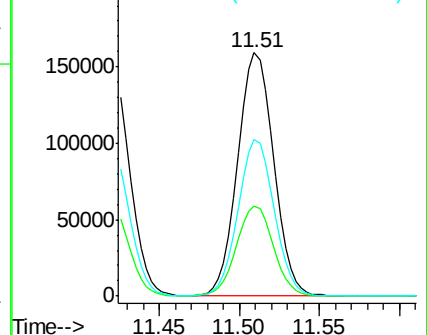
148 64.2 44.6 82.8

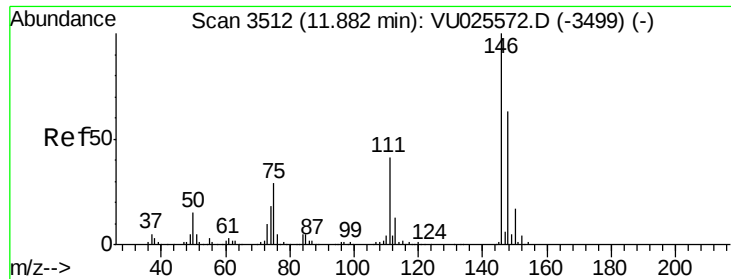


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 47.128 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

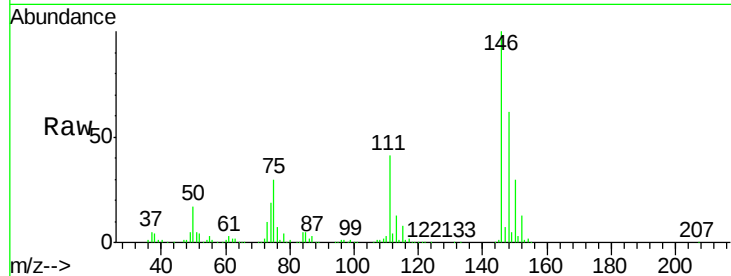
Tot Ion:146 Resp: 242731

Ion Ratio Lower Upper

146 100

111 40.7 32.4 48.6

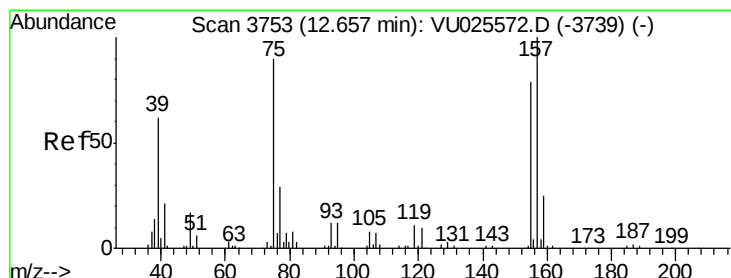
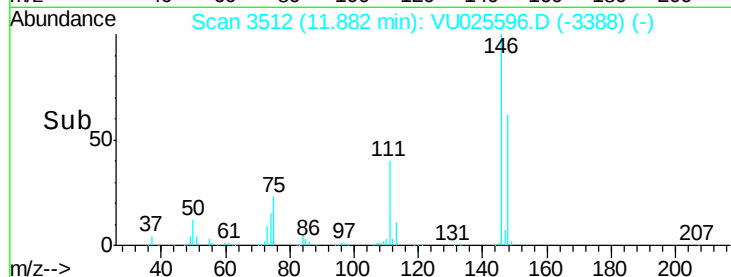
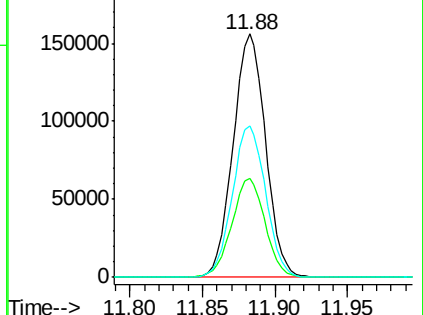
148 62.3 50.7 76.1



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: 47.135 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

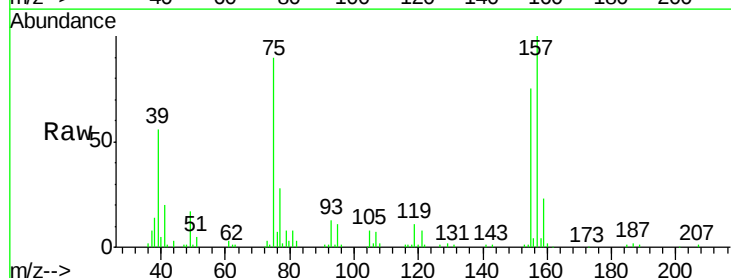
Tgt Ion: 75 Resp: 38180

Ion Ratio Lower Upper

75 100

155 84.1 66.3 99.5

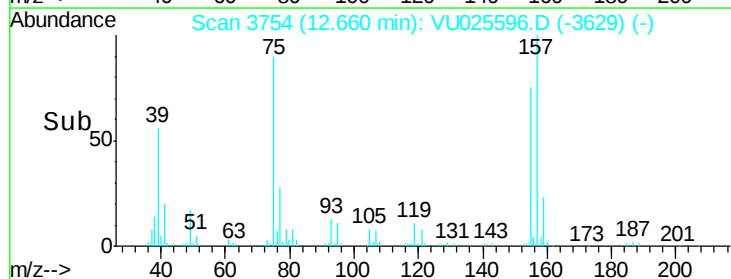
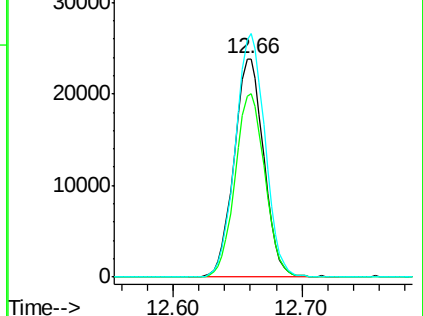
157 111.5 91.5 137.3

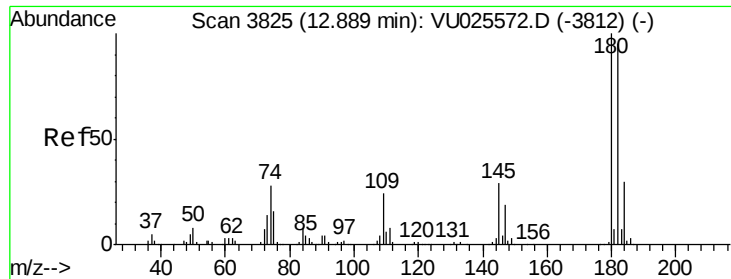


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

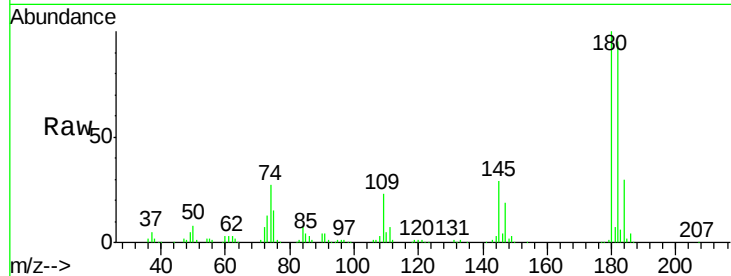




#67
 1,3,5-Trichlorobenzene
 Concen: 51.457 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05064

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.3	115.9
184	30.6	24.6	36.8
145	28.7	23.0	34.6

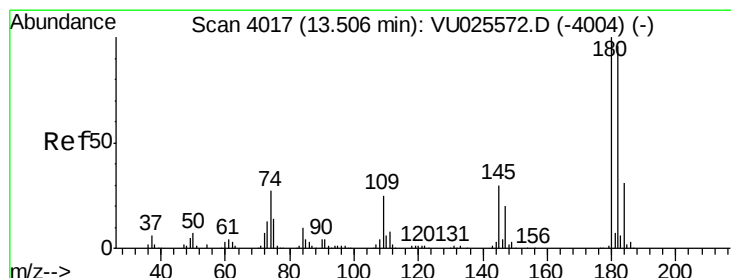
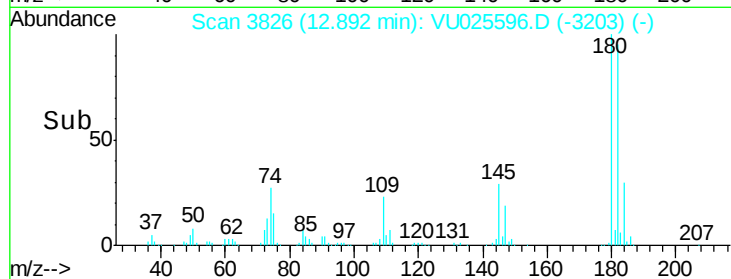
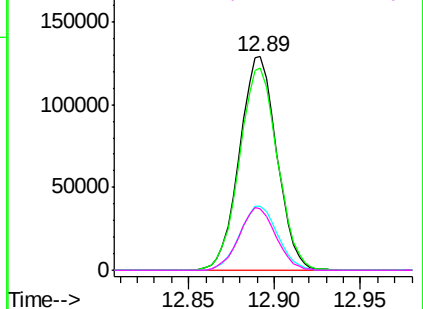


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

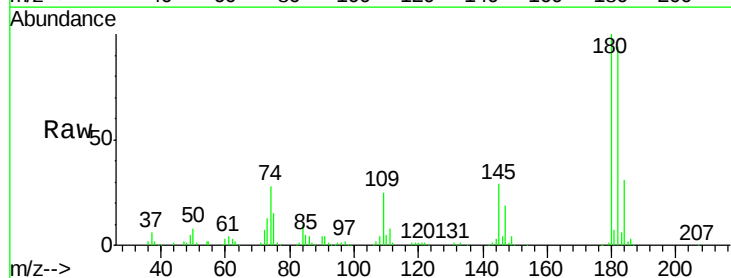
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.366 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU025596.D
 Acq: 23 Jul 2018 11:23

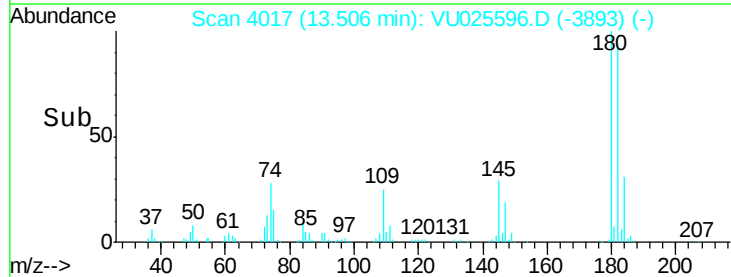
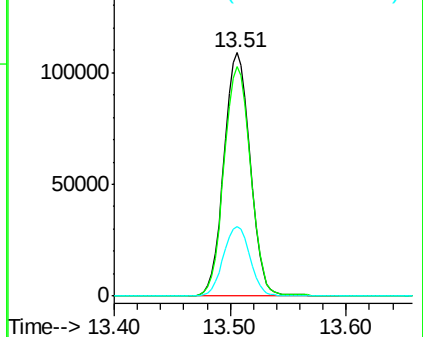
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	78.1	117.1
145	29.0	23.4	35.2

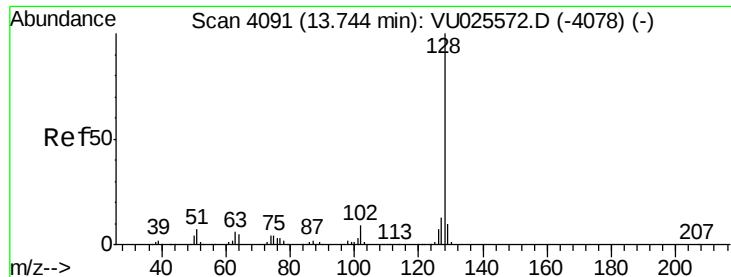


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 49.594 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

Instrument :

MSVOA_U

ClientSampleId :

VSTD05064

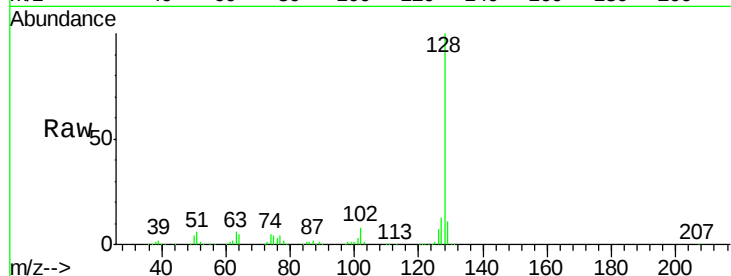
Tot Ion:128 Resp: 475667

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

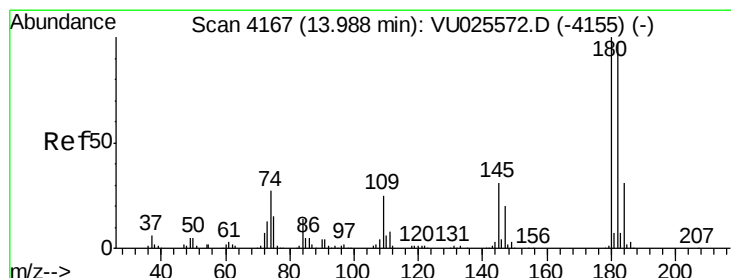
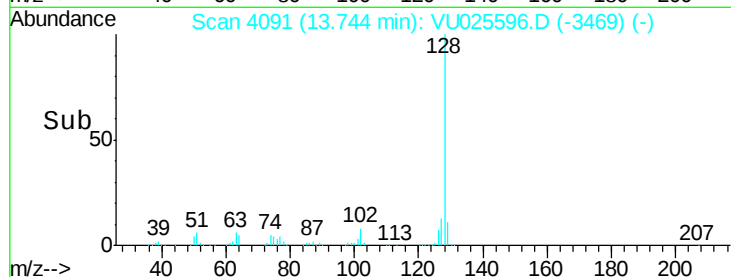
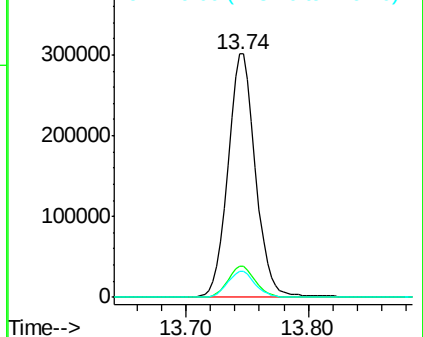
129 10.9 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.761 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025596.D

Acq: 23 Jul 2018 11:23

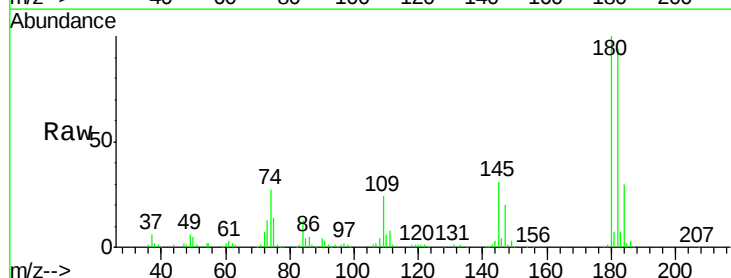
Tgt Ion:180 Resp: 171138

Ion Ratio Lower Upper

180 100

182 94.7 76.6 114.8

145 31.6 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

