

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028112.D
 Acq On : 14 Nov 2018 10:51
 Operator : MD/SY
 Sample : VSTD00546
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

Quant Time: Nov 15 04:07:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 04:03:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	180608	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	172044	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	81995	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	75514	5.04	ug/L	0.00
7) Chloroethane-d5	1.68	69	59283	4.98	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	138141	4.93	ug/L	0.00
20) 2-Butanone-d5	4.21	46	215939	49.68	ug/L	0.00
24) Chloroform-d	4.65	84	116930	4.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	64014	4.81	ug/L	0.00
32) Benzene-d6	5.34	84	240663	4.87	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	86308	4.88	ug/L	0.00
41) Toluene-d8	7.57	98	221996	4.83	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	29749	4.72	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	175601	48.78	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	60795	4.87	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	74220	4.84	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	76272	4.788	ug/L 100
3) Chloromethane	1.33	50	96647	4.746	ug/L 100
5) Vinyl chloride	1.40	62	94363	4.878	ug/L 100
6) Bromomethane	1.63	94	45870	4.950	ug/L 100
8) Chloroethane	1.70	64	54930	4.717	ug/L 100
9) Trichlorofluoromethane	1.89	101	102268	4.846	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	57075	4.818	ug/L 100
12) 1,1-Dichloroethene	2.29	96	57318	4.773	ug/L 100
13) Acetone	2.35	43	139321	47.590	ug/L 100
14) Carbon disulfide	2.48	76	190997	4.743	ug/L 100
15) Methyl Acetate	2.63	43	38008	4.855	ug/L 100
16) Methylene chloride	2.70	84	68092	4.799	ug/L 100
17) Methyl tert-butyl Ether	3.01	73	161776	4.819	ug/L 100
18) trans-1,2-Dichloroethene	2.98	96	62051	4.860	ug/L 100
19) 1,1-Dichloroethane	3.45	63	131454	4.896	ug/L 100
21) 2-Butanone	4.30	43	228801	49.523	ug/L 100
22) cis-1,2-Dichloroethene	4.23	96	68370	4.857	ug/L 100
23) Bromochloromethane	4.55	128	26863	4.829	ug/L 100
25) Chloroform	4.68	83	119262	4.952	ug/L 100
27) 1,2-Dichloroethane	5.41	62	79347	5.012	ug/L 100
29) 1,1,1-Trichloroethane	4.92	97	93961	4.825	ug/L 100
30) Cyclohexane	4.99	56	131657	4.822	ug/L 100
31) Carbon tetrachloride	5.13	117	78942	4.885	ug/L 100
33) Benzene	5.39	78	280368	4.837	ug/L 100
34) Trichloroethene	6.19	95	69160	4.828	ug/L 100
35) Methylcyclohexane	6.41	83	120511	4.894	ug/L 100
37) 1,2-Dichloropropane	6.44	63	77386	4.828	ug/L 100
38) Bromodichloromethane	6.76	83	81757	4.794	ug/L 100
39) cis-1,3-Dichloropropene	7.27	75	106643	4.921	ug/L 100
40) 4-Methyl-2-pentanone	7.47	43	535087	48.479	ug/L 100

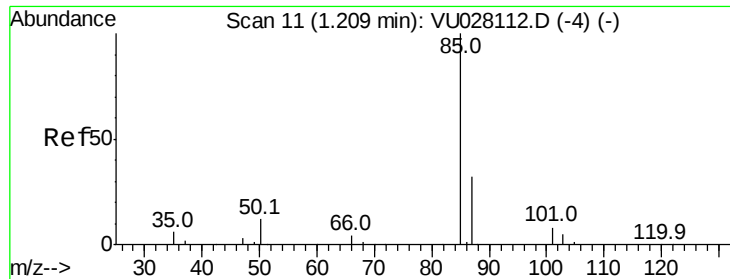
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	286100	4.787	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	80703	4.753	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	45752	4.728	ug/L	100
47) Tetrachloroethene	8.23	164	50834	4.365	ug/L	100
48) 2-Hexanone	8.37	43	379636	48.339	ug/L	100
49) Dibromochloromethane	8.48	129	50379	4.890	ug/L	100
50) 1,2-Dibromoethane	8.59	107	43429	4.767	ug/L	100
51) Chlorobenzene	9.12	112	168018	4.808	ug/L	100
52) Ethylbenzene	9.25	91	316794	4.857	ug/L	100
53) m,p-xylene	9.38	106	114886	4.834	ug/L	100
54) o-xylene	9.78	106	110754	4.841	ug/L	100
55) Styrene	9.79	104	186539	4.821	ug/L	100
56) Isopropylbenzene	10.17	105	294992	4.767	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	60076	4.817	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	43879	4.874	ug/L	100
61) Bromoform	9.96	173	26527	4.785	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	125571	4.843	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	126139	4.806	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	119068	4.802	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	8716	4.845	ug/L	100
67) 1,3,5-Trichlorobenzene	12.89	180	96141	4.834	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	84326	4.864	ug/L	100
69) Naphthalene	13.74	128	157616	4.879	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	77089	4.827	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.788 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

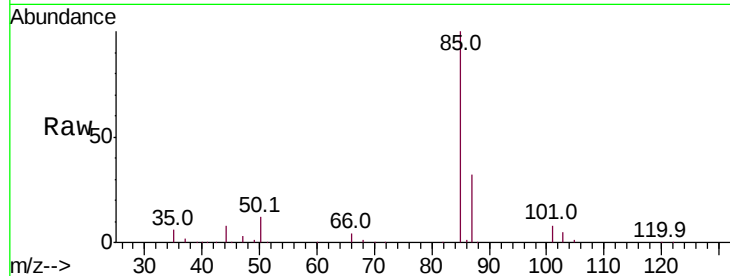
VSTD00546

Tot Ion: 85 Resp: 76272

Ion Ratio Lower Upper

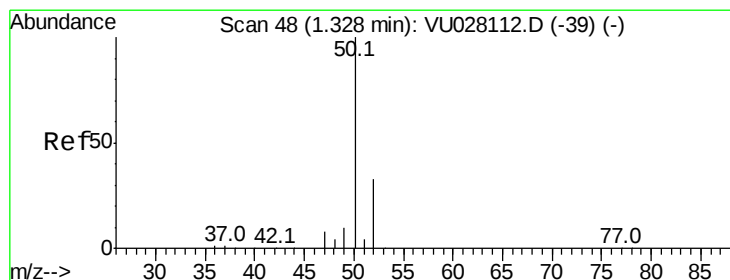
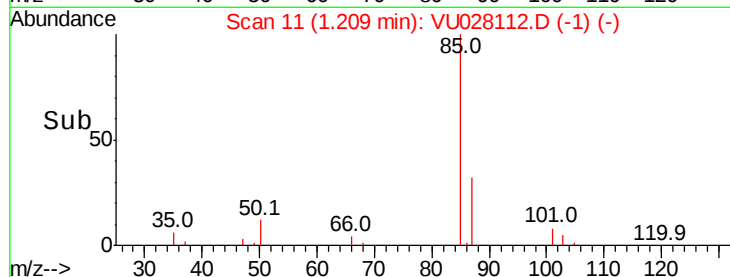
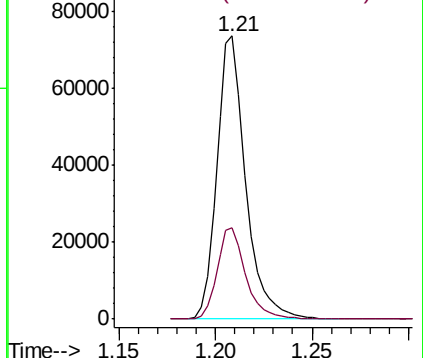
85 100

87 32.0 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.746 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028112.D

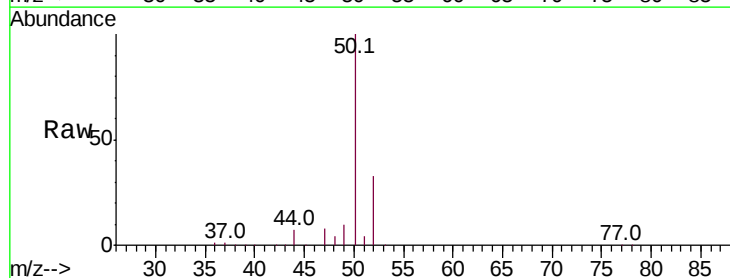
Acq: 14 Nov 2018 10:51

Tgt Ion: 50 Resp: 96647

Ion Ratio Lower Upper

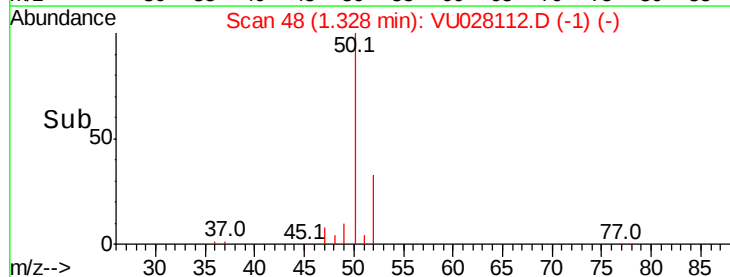
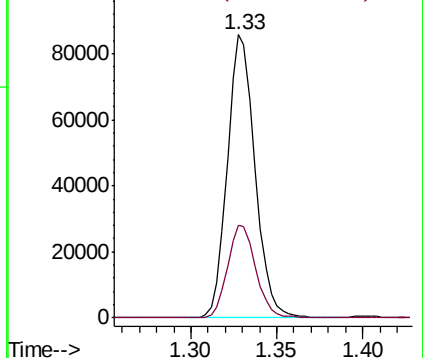
50 100

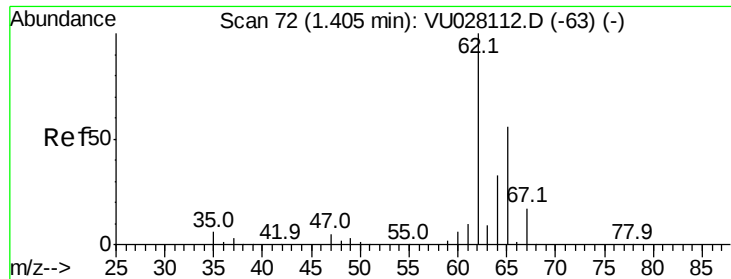
52 32.8 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.878 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

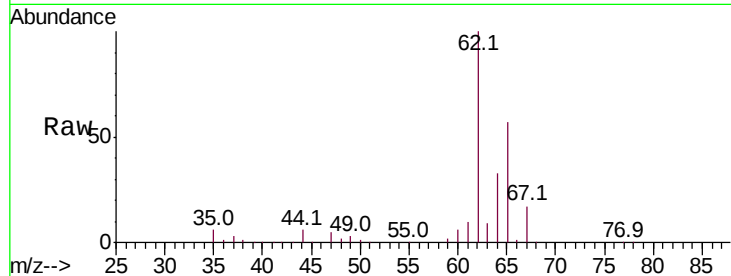
VSTD00546

Tot Ion: 62 Resp: 94363

Ion Ratio Lower Upper

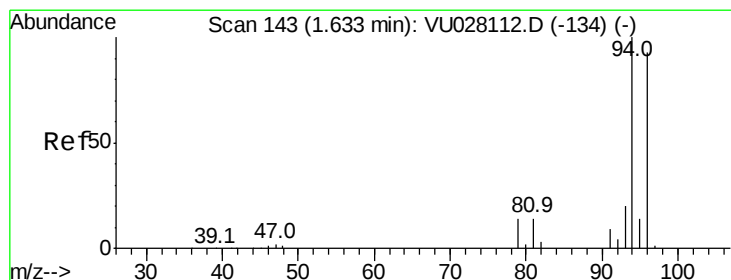
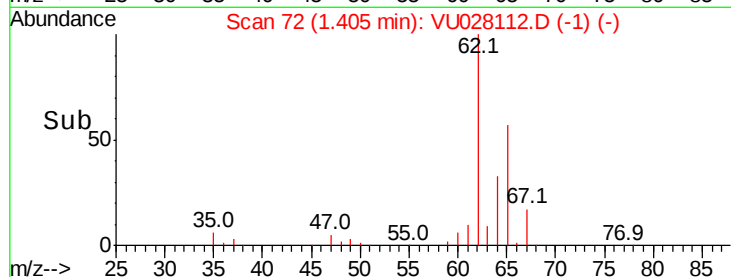
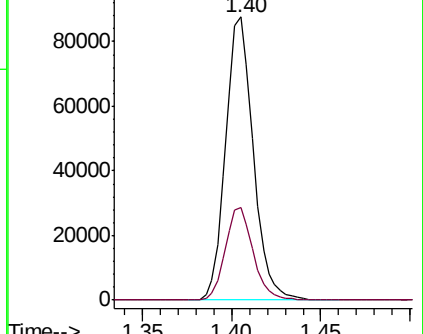
62 100

64 32.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.950 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU028112.D

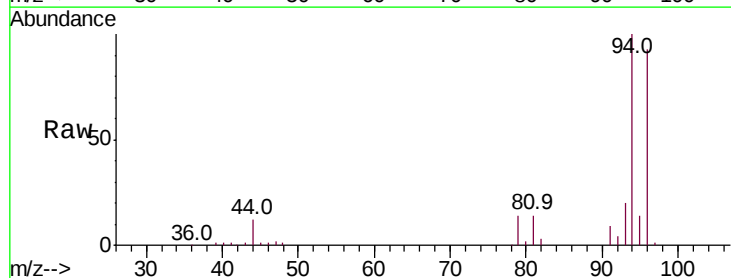
Acq: 14 Nov 2018 10:51

Tgt Ion: 94 Resp: 45870

Ion Ratio Lower Upper

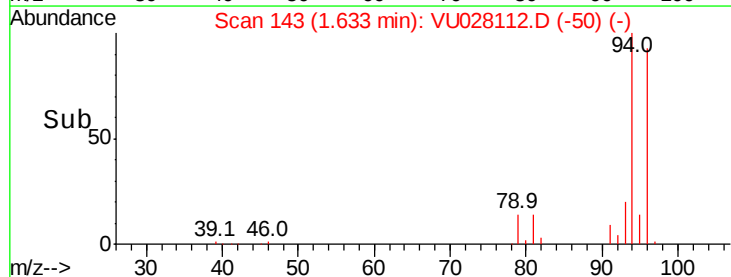
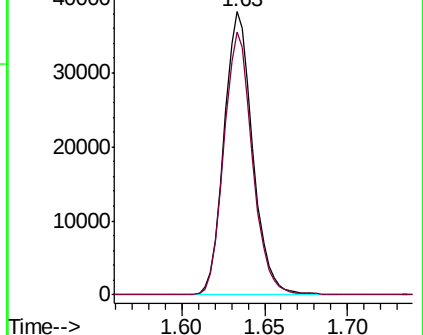
94 100

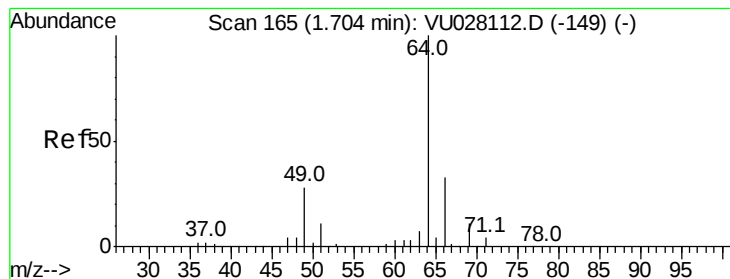
96 93.0 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.717 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

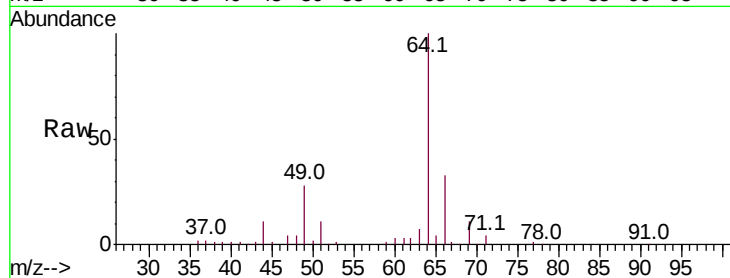
VSTD00546

Tot Ion: 64 Resp: 54930

Ion Ratio Lower Upper

64 100

66 33.0 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU028112.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VU028112.D (-149) (-)

1.70

40000

30000

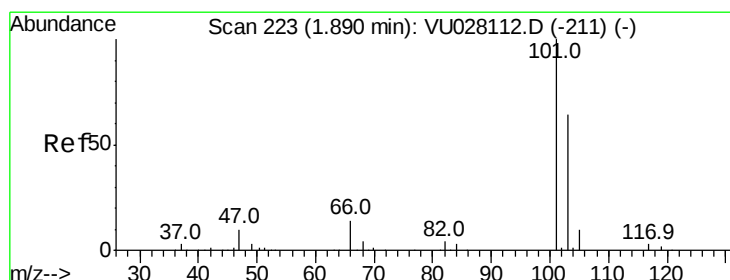
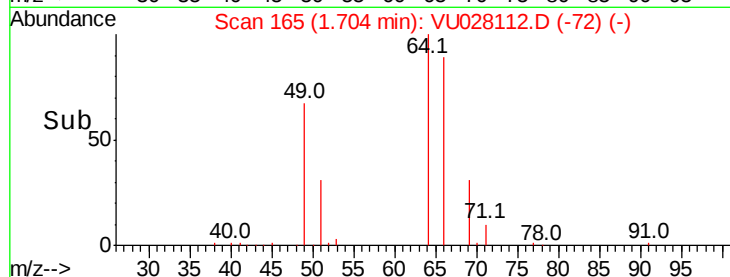
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 4.846 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU028112.D

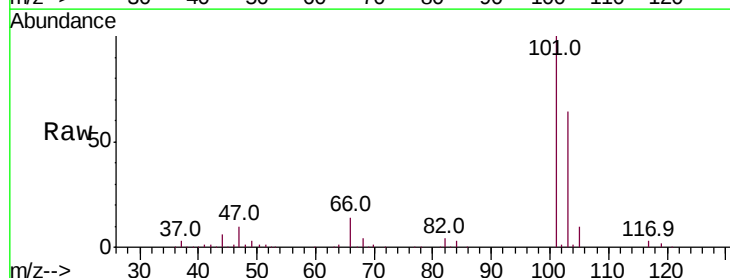
Acq: 14 Nov 2018 10:51

Tgt Ion: 101 Resp: 102268

Ion Ratio Lower Upper

101 100

103 64.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU028112.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028112.D (-211) (-)

1.89

80000

60000

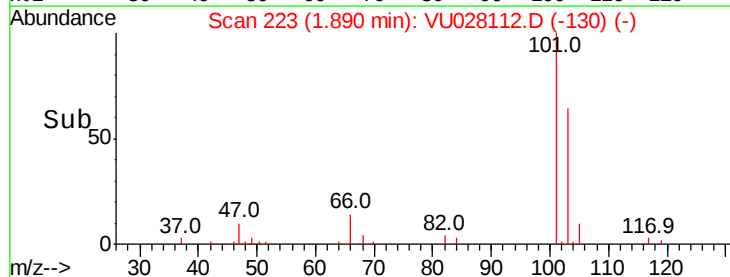
40000

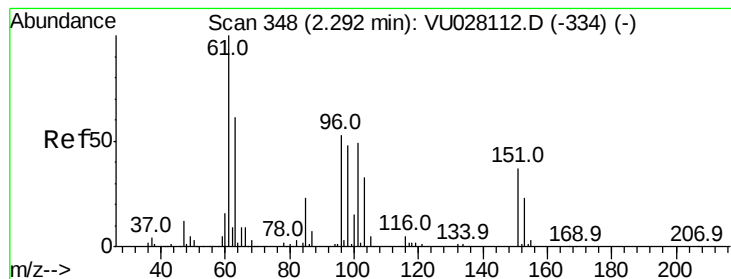
20000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 4.818 ug/L

RT: 2.29 min Scan# 348

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

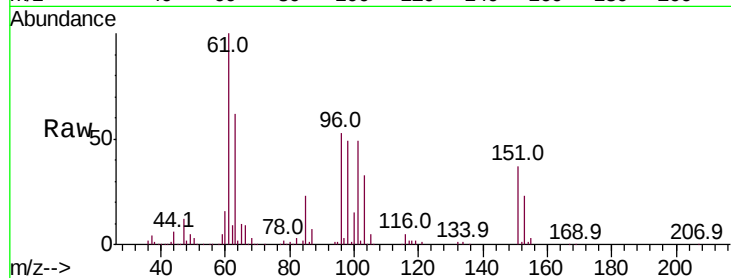
Tot Ion:101 Resp: 57075

Ion Ratio Lower Upper

101 100

85 47.0 37.6 56.4

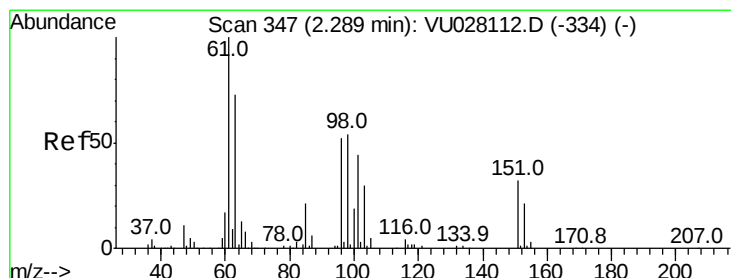
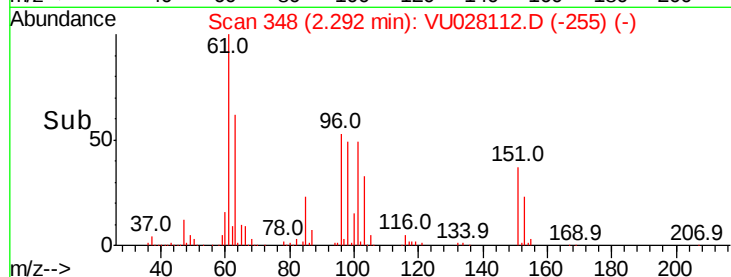
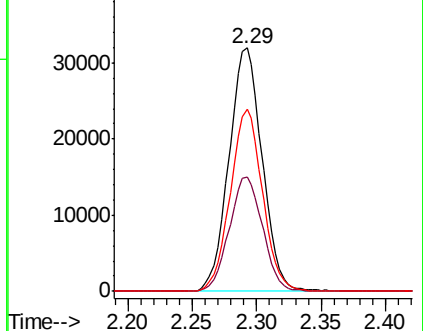
151 72.7 58.2 87.2



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: 4.773 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

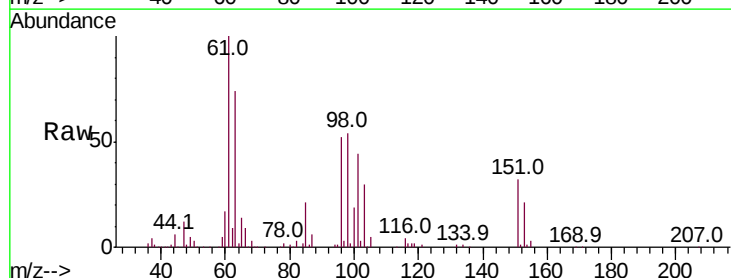
Tgt Ion: 96 Resp: 57318

Ion Ratio Lower Upper

96 100

61 192.5 134.8 250.3

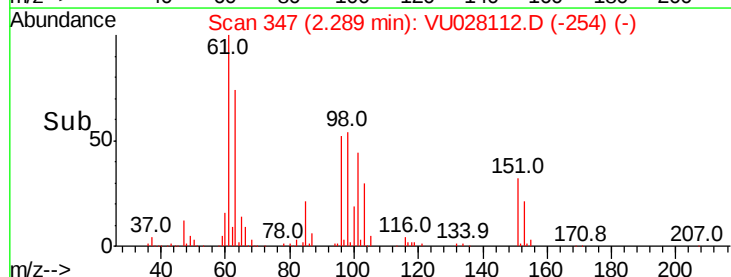
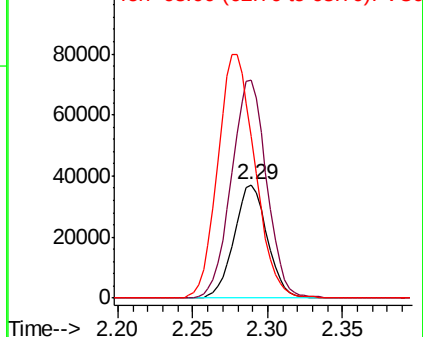
63 143.0 100.1 185.9

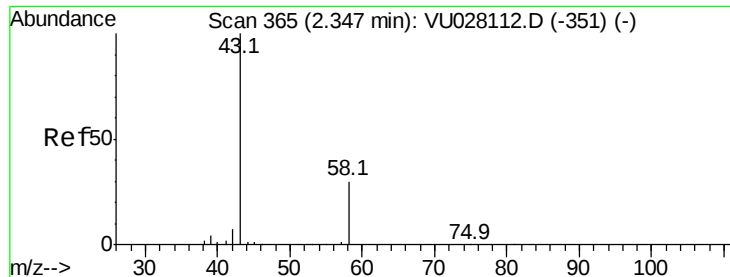


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.590 ug/L

RT: 2.35 min Scan# 365

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

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ClientSampleId :

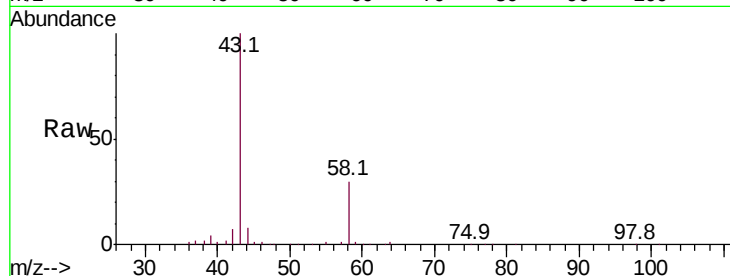
VSTD00546

Tot Ion: 43 Resp: 139321

Ion Ratio Lower Upper

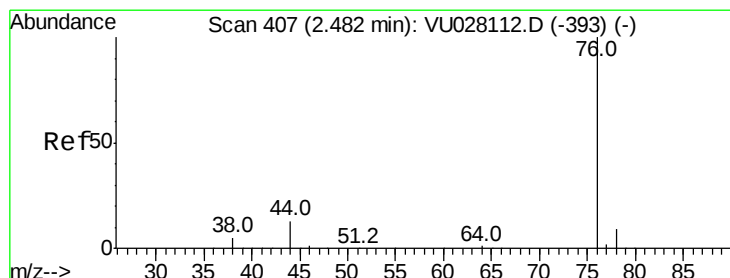
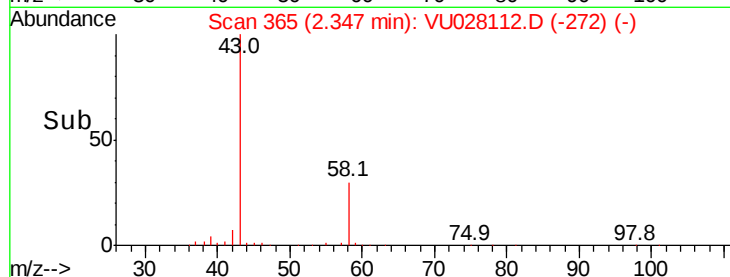
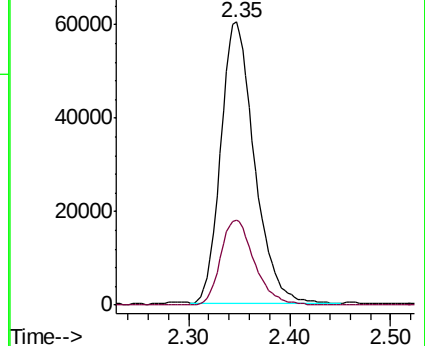
43 100

58 30.8 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.743 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU028112.D

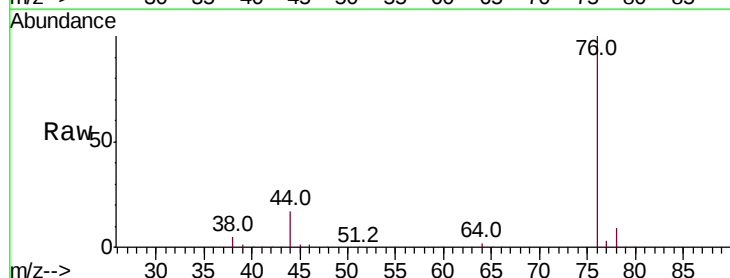
Acq: 14 Nov 2018 10:51

Tgt Ion: 76 Resp: 190997

Ion Ratio Lower Upper

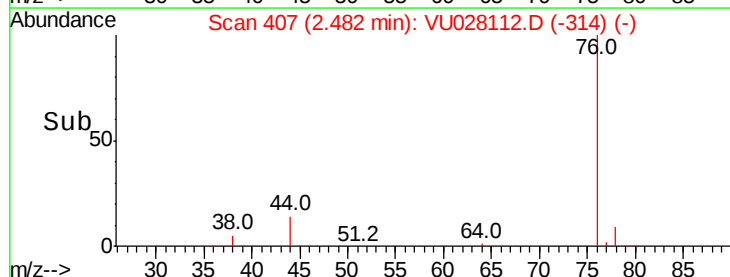
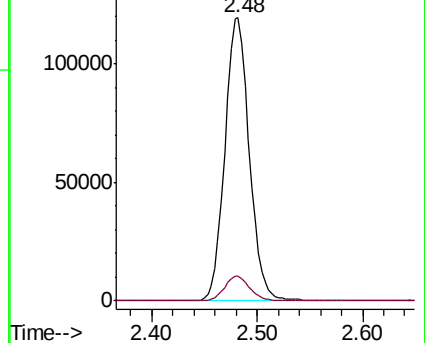
76 100

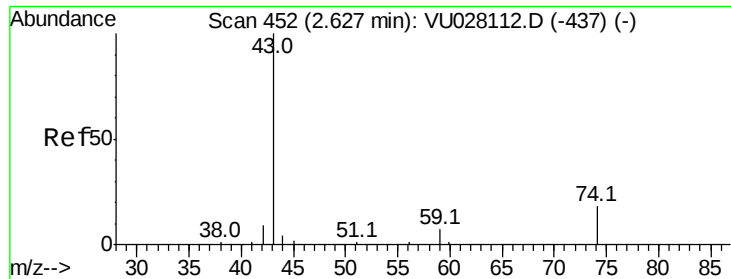
78 8.7 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 4.855 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

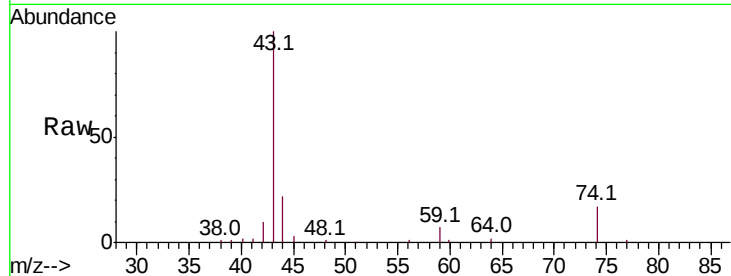
VSTD00546

Tot Ion: 43 Resp: 38008

Ion Ratio Lower Upper

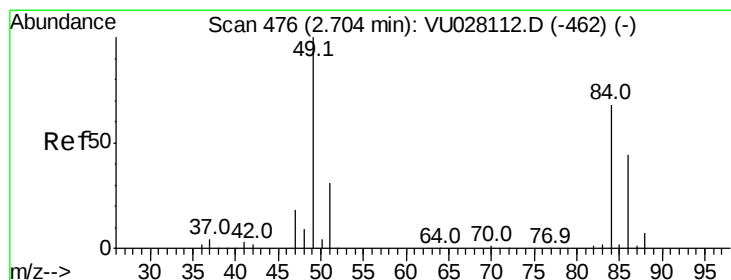
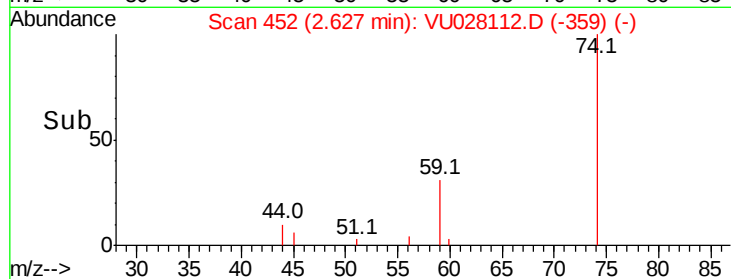
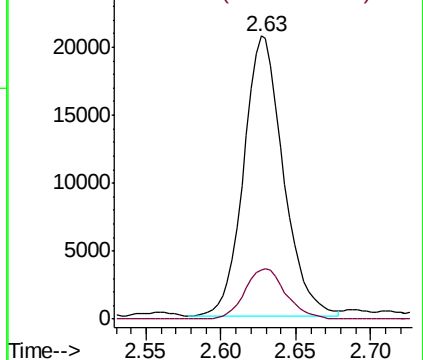
43 100

74 18.6 14.9 22.3



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.799 ug/L

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

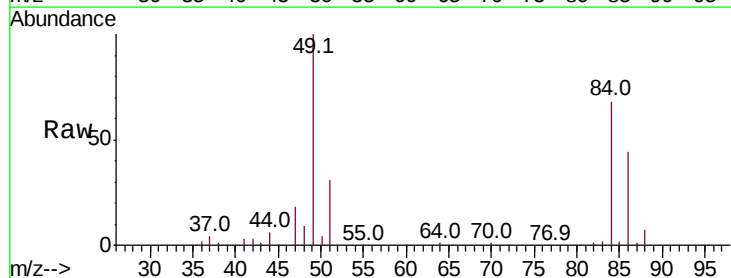
Tgt Ion: 84 Resp: 68092

Ion Ratio Lower Upper

84 100

86 63.7 44.6 82.8

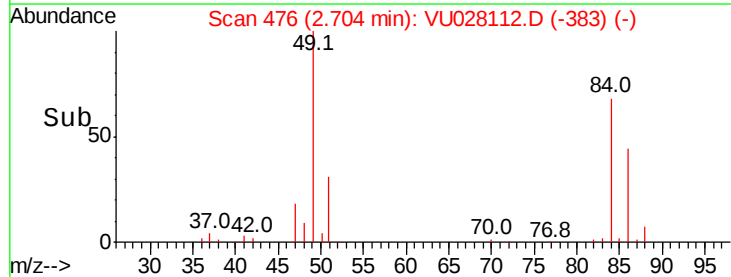
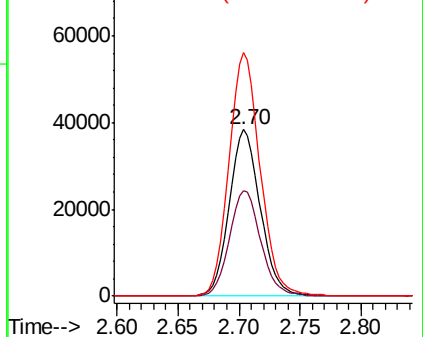
49 146.4 102.5 190.3

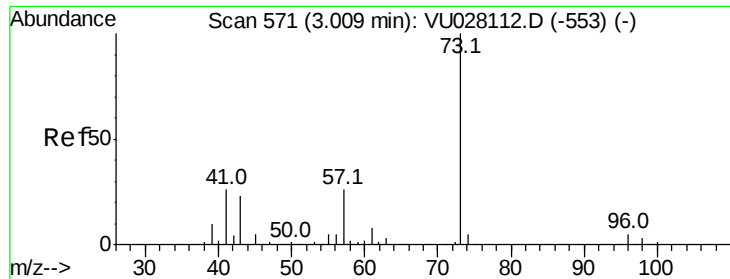


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

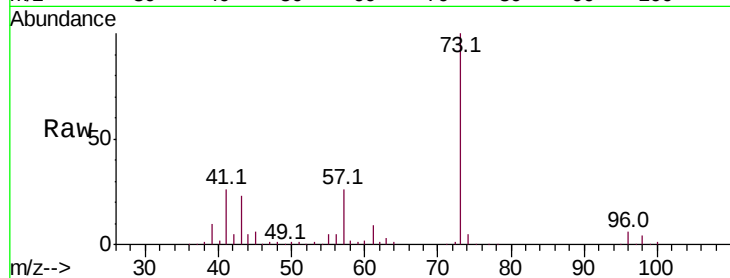




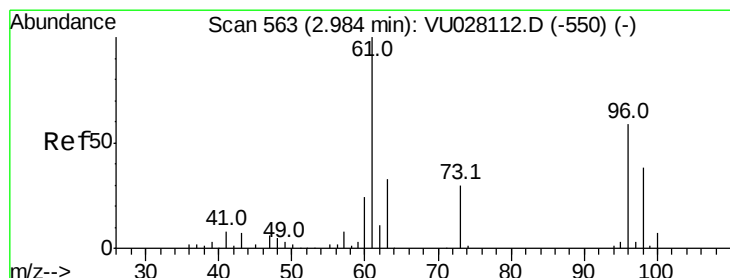
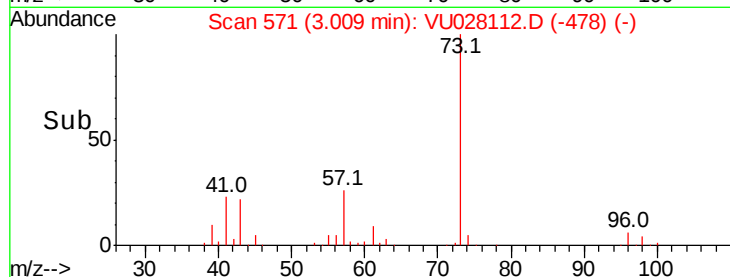
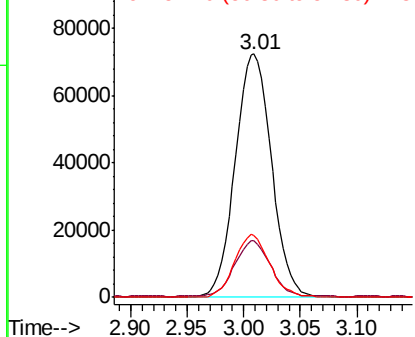
#17
Methvl tert-butvl Ether
Concen: 4.819 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

Tot Ion: 73 Resp: 161776
Ion Ratio Lower Upper
73 100
43 22.6 18.1 27.1
57 25.0 20.0 30.0

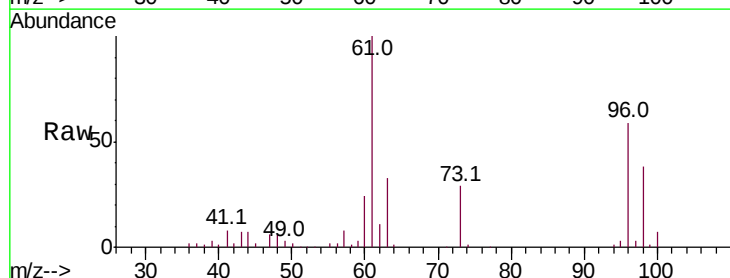


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

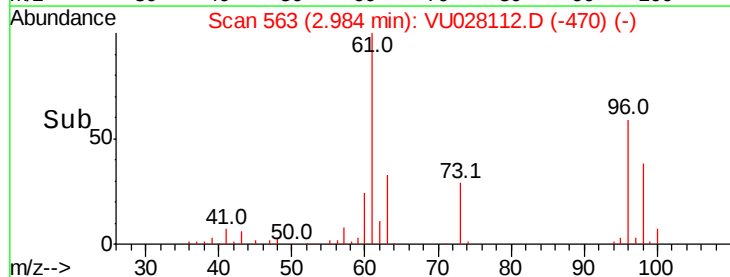
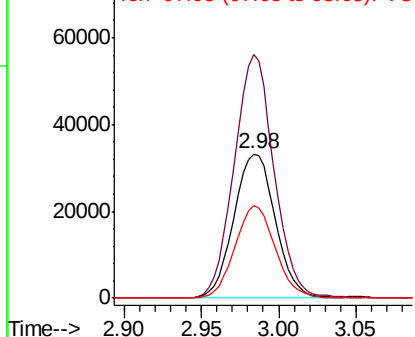


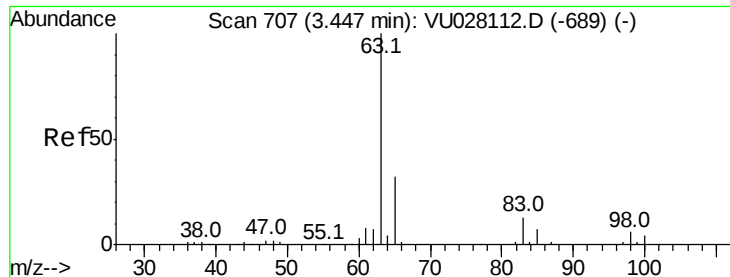
#18
trans-1,2-Dichloroethene
Concen: 4.860 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Tgt Ion: 96 Resp: 62051
Ion Ratio Lower Upper
96 100
61 169.3 118.5 220.1
98 64.2 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

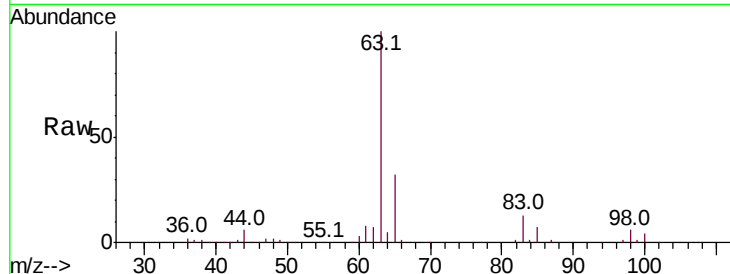




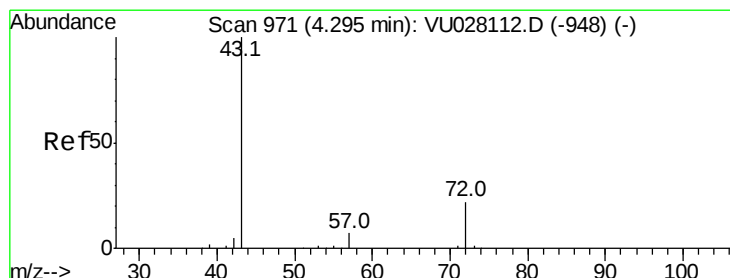
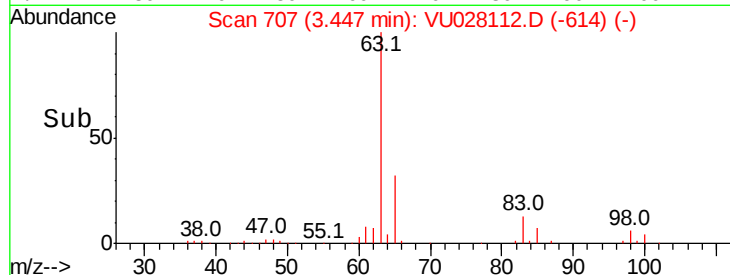
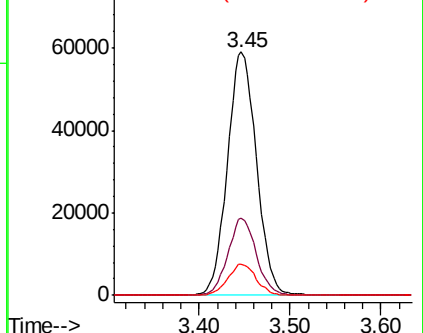
#19
 1,1-Dichloroethane
 Concen: 4.896 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

Tot Ion: 63 Resp: 131454
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.2 41.2
 83 12.7 8.9 16.5

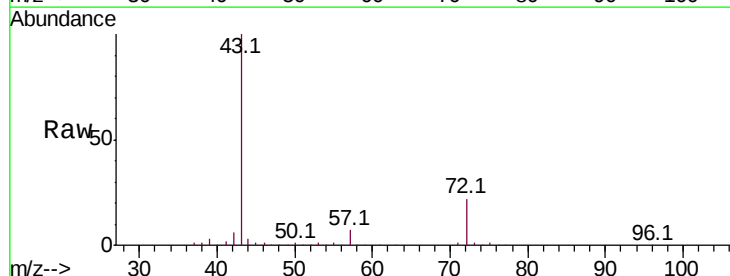


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

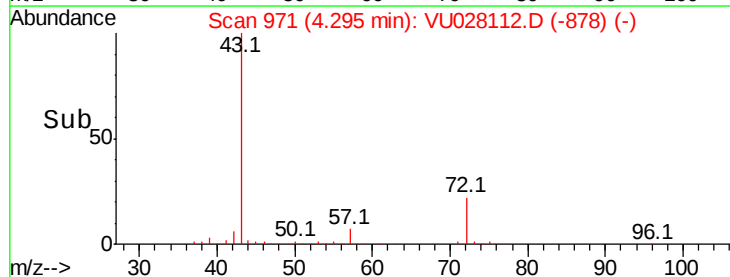
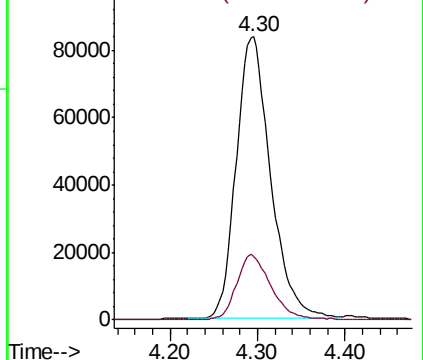


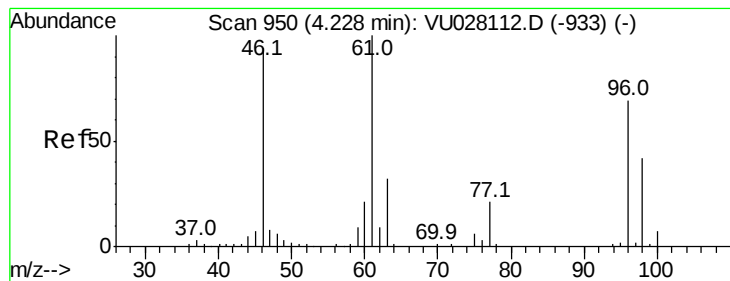
#21
 2-Butanone
 Concen: 49.523 ug/L
 RT: 4.30 min Scan# 971
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Tgt Ion: 43 Resp: 228801
 Ion Ratio Lower Upper
 43 100
 72 22.0 11.0 33.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.857 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampled :

VSTD00546

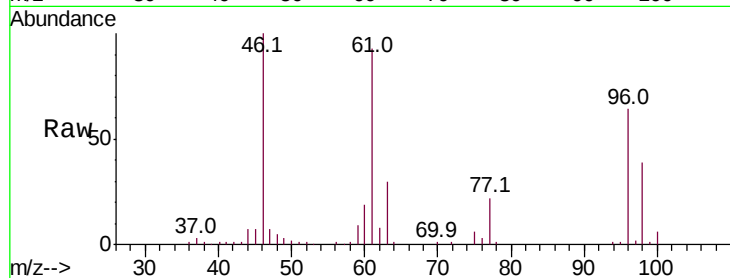
Tot Ion: 96 Resp: 68370

Ion Ratio Lower Upper

96 100

61 145.4 101.8 189.0

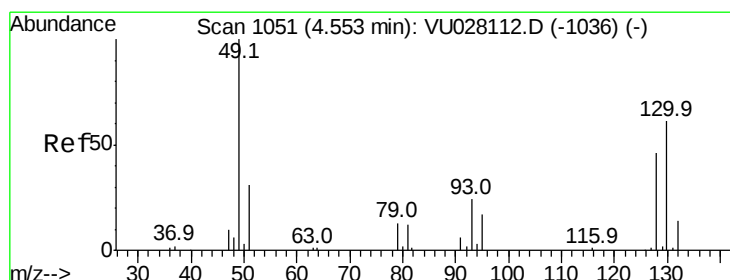
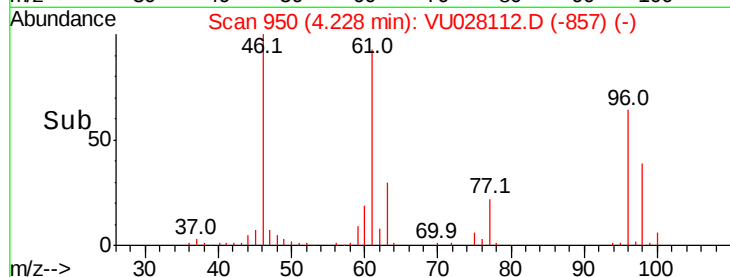
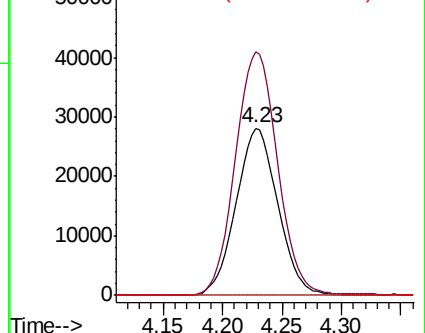
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 4.829 ug/L

RT: 4.55 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Tgt Ion:128 Resp: 26863

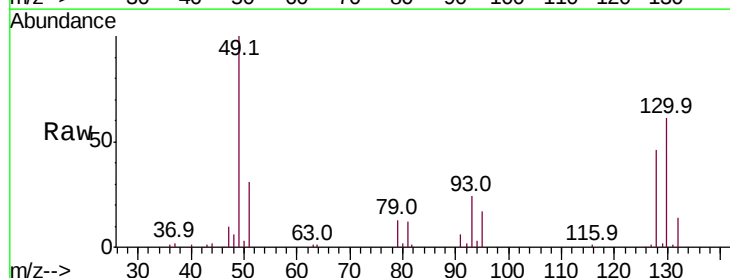
Ion Ratio Lower Upper

128 100

49 217.4 152.2 282.6

130 133.1 93.2 173.0

51 66.9 53.5 80.3

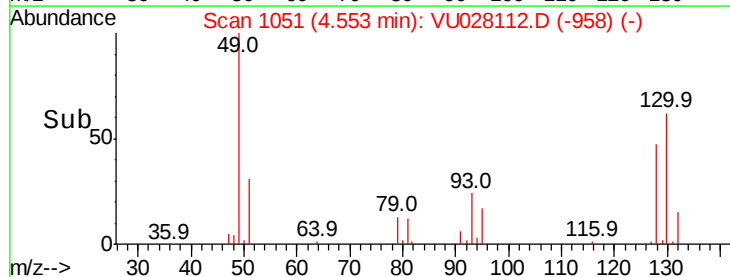
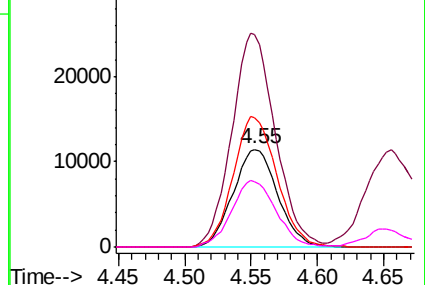


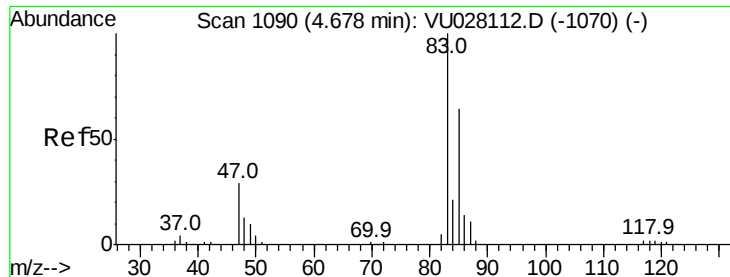
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

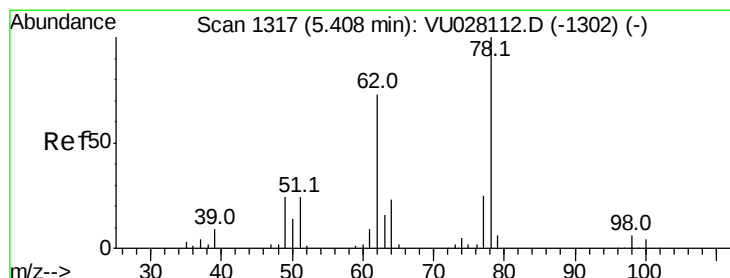
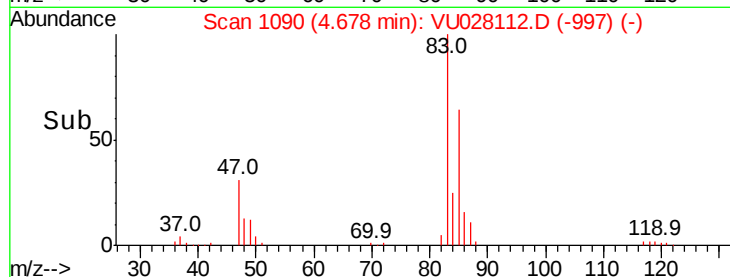
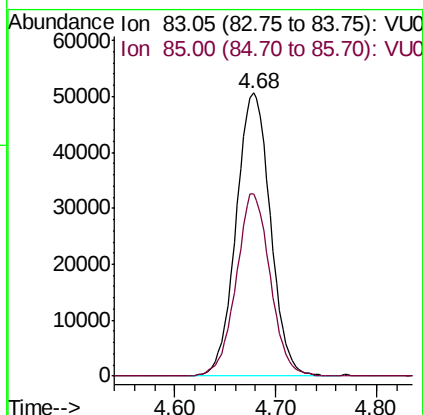
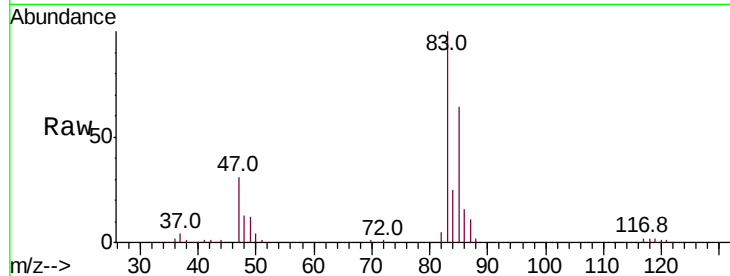




#25
Chloroform
Concen: 4.952 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

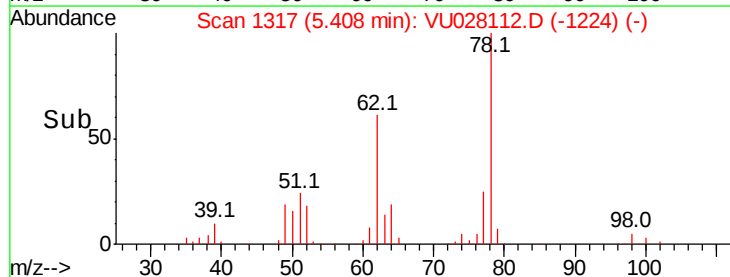
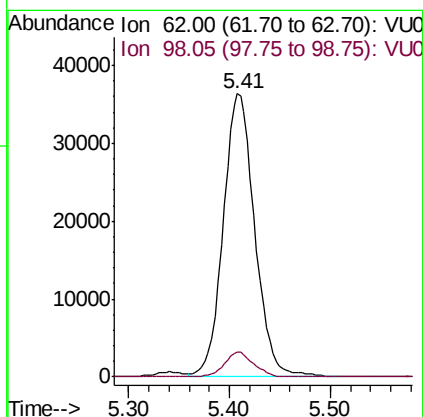
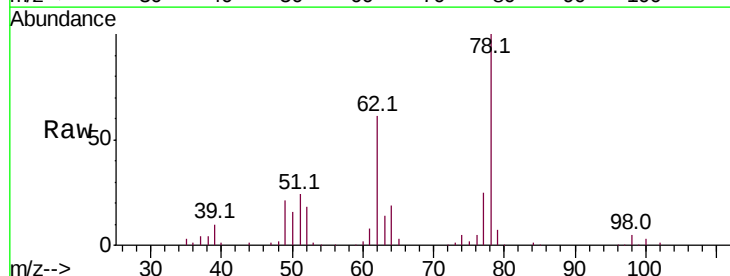
Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

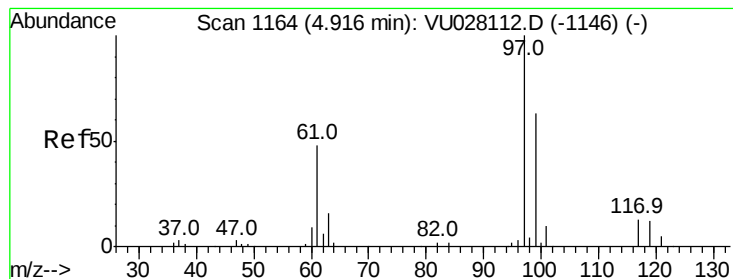
Tot Ion: 83 Resp: 119262
Ion Ratio Lower Upper
83 100
85 64.3 45.0 83.6



#27
1,2-Dichloroethane
Concen: 5.012 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Tgt Ion: 62 Resp: 79347
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 4.825 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

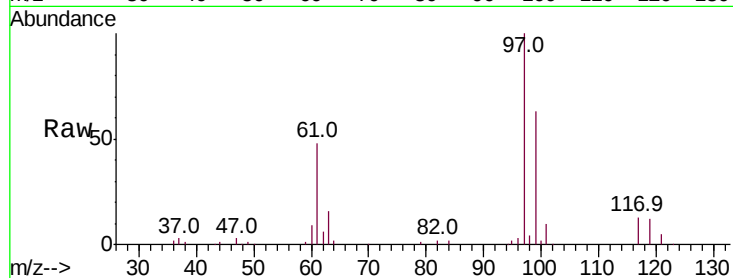
Tot Ion: 97 Resp: 93961

Ion Ratio Lower Upper

97 100

99 64.0 51.2 76.8

61 49.3 39.4 59.2

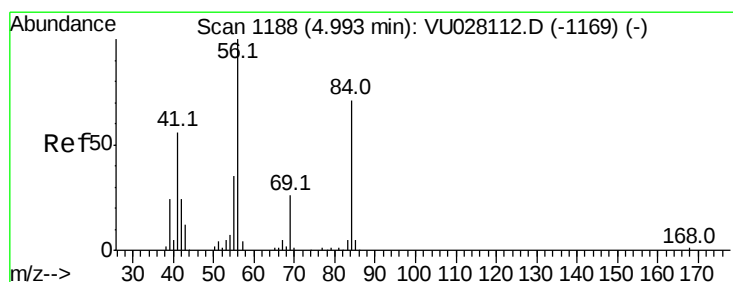
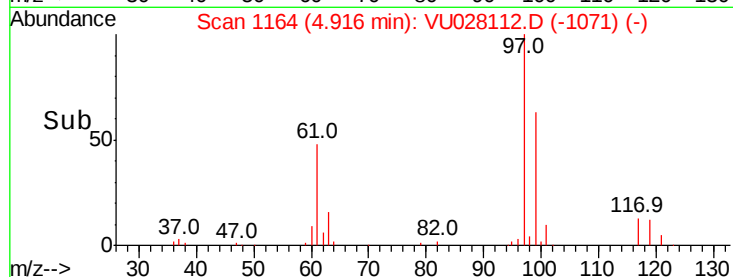
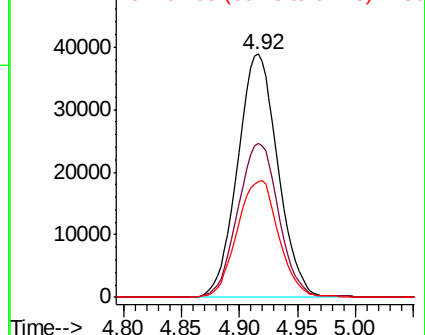


Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.822 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

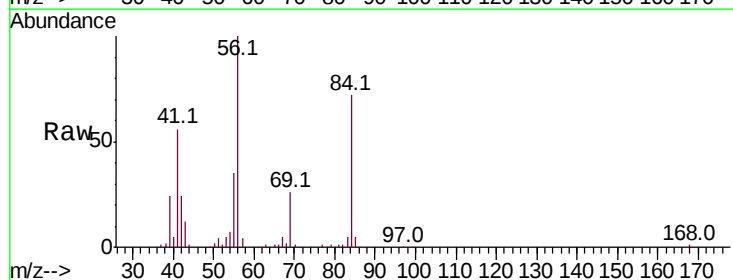
Tgt Ion: 56 Resp: 131657

Ion Ratio Lower Upper

56 100

69 28.2 22.6 33.8

84 72.1 57.7 86.5

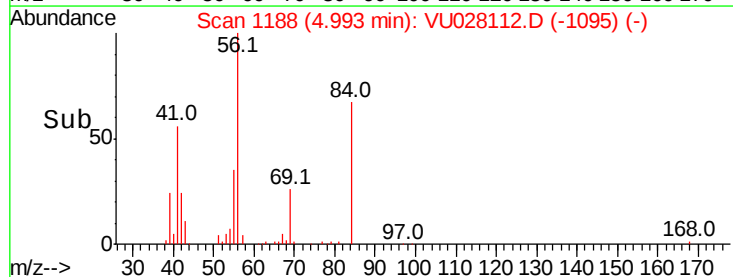
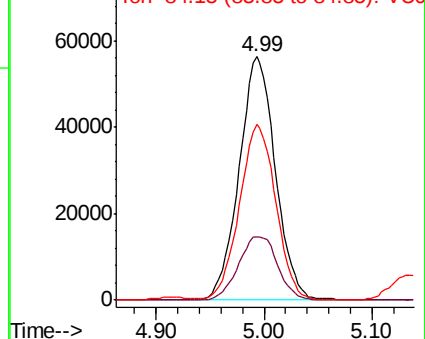


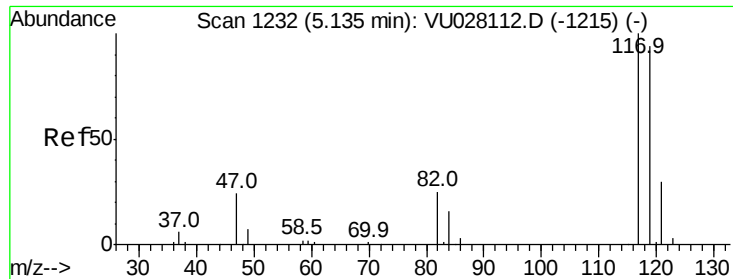
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

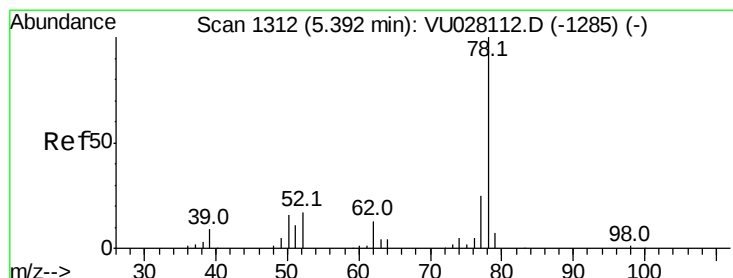
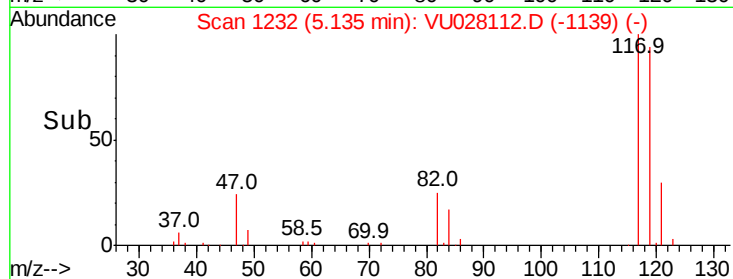
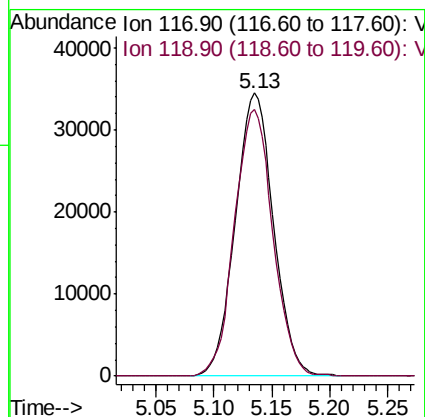
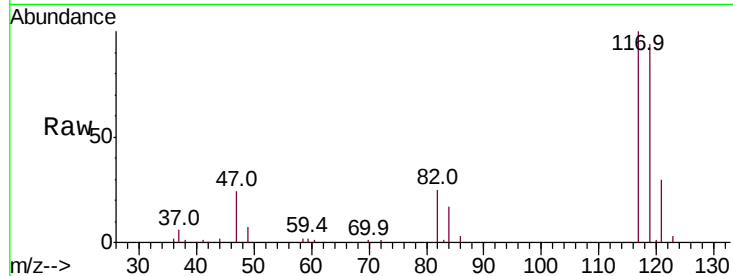




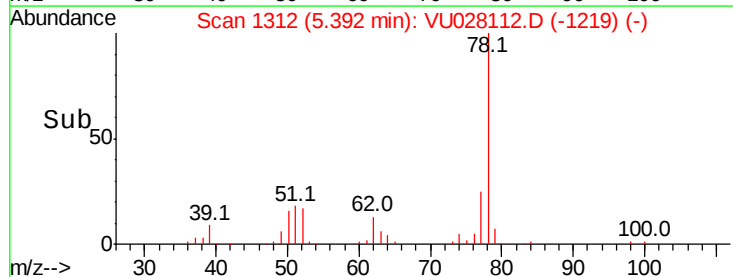
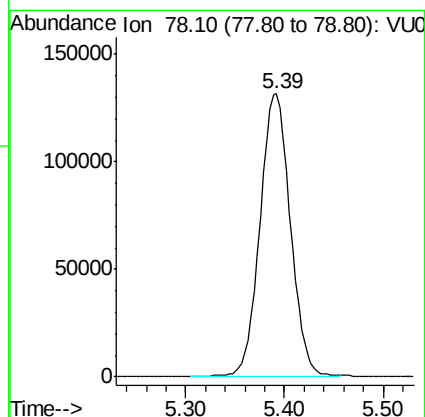
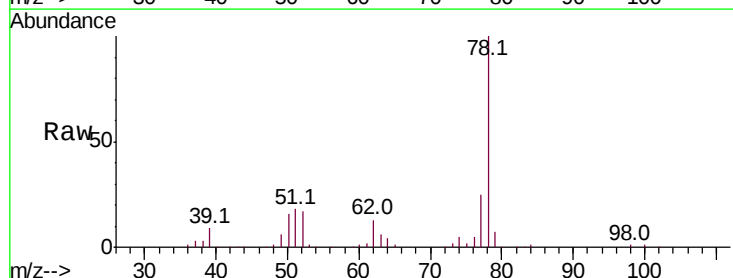
#31
Carbon tetrachloride
Concen: 4.885 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

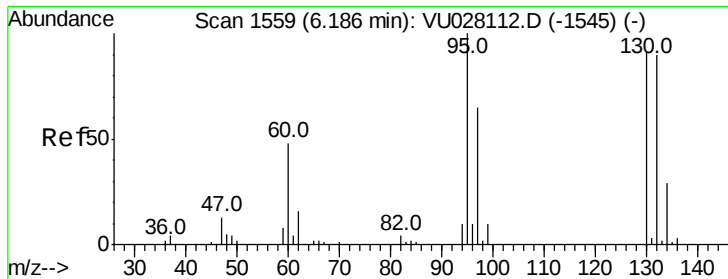
Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

Tot Ion:117 Resp: 78942
Ion Ratio Lower Upper
117 100
119 94.6 75.7 113.5



#33
Benzene
Concen: 4.837 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51
Tgt Ion: 78 Resp: 280368





#34

Trichloroethene

Concen: 4.828 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

Tot Ion: 95 Resp: 69160

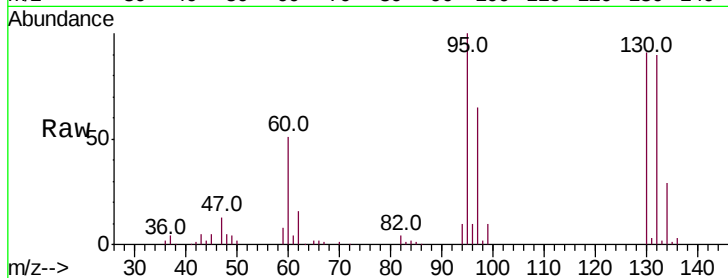
Ion Ratio Lower Upper

95 100

97 64.7 45.3 84.1

132 90.0 63.0 117.0

130 90.9 63.6 118.2

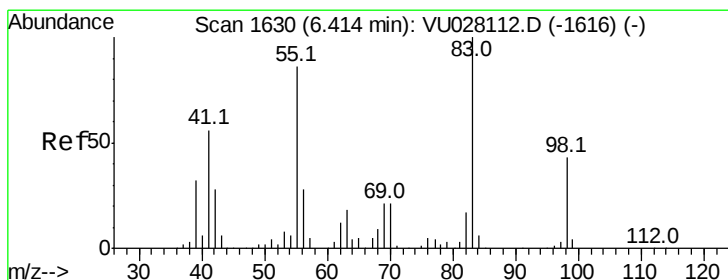
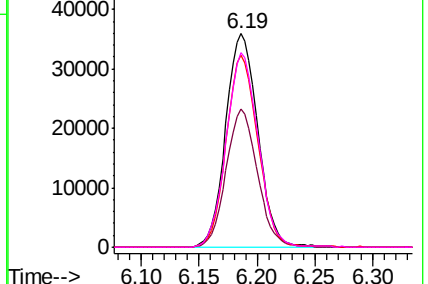
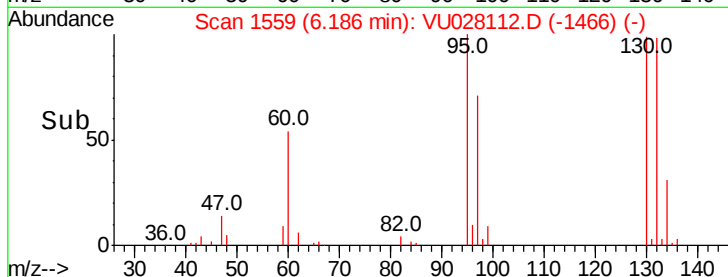


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.894 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

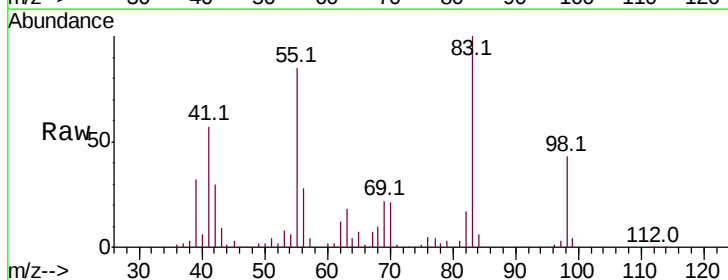
Tgt Ion: 83 Resp: 120511

Ion Ratio Lower Upper

83 100

55 86.2 69.0 103.4

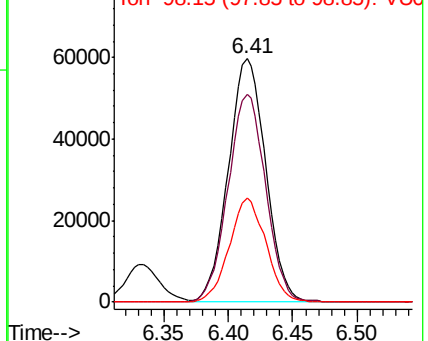
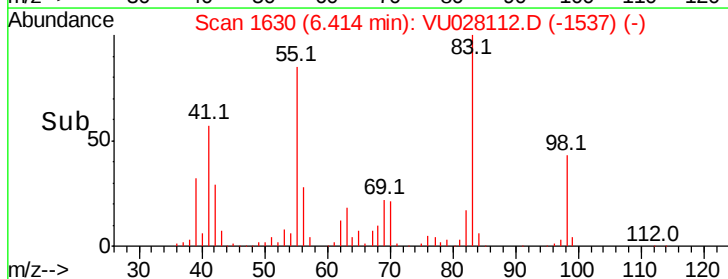
98 41.6 33.3 49.9

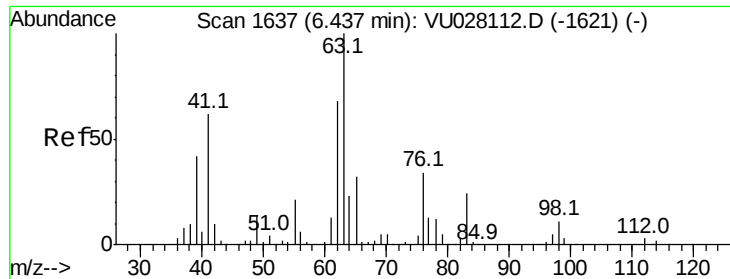


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

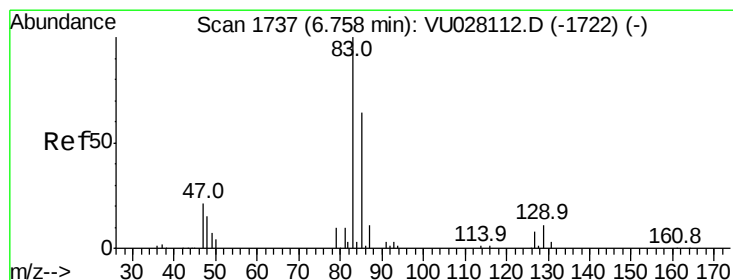
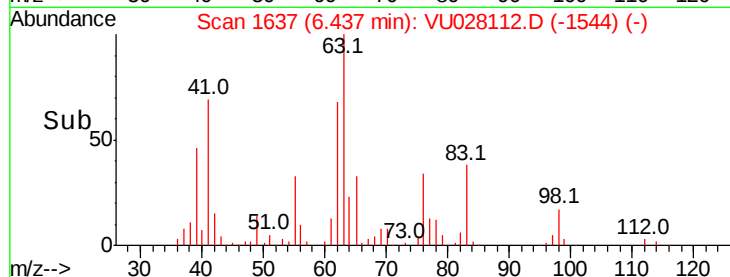
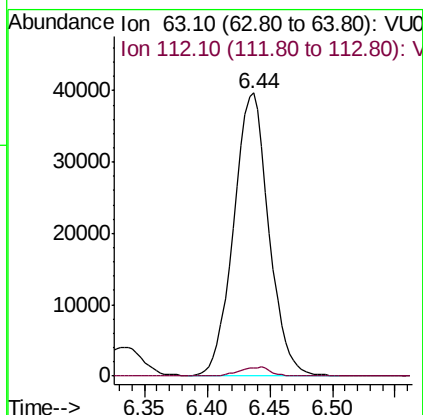
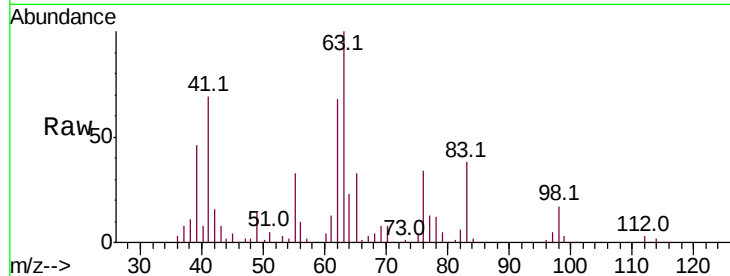




#37
 1,2-Dichloropropane
 Concen: 4.828 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

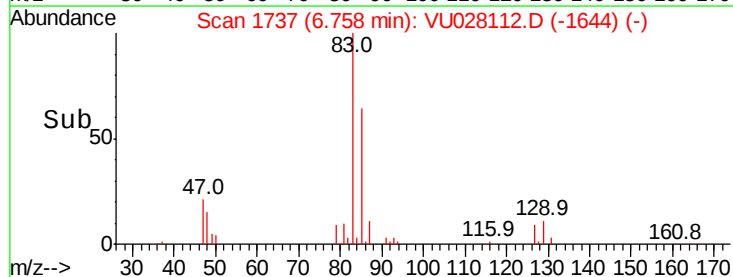
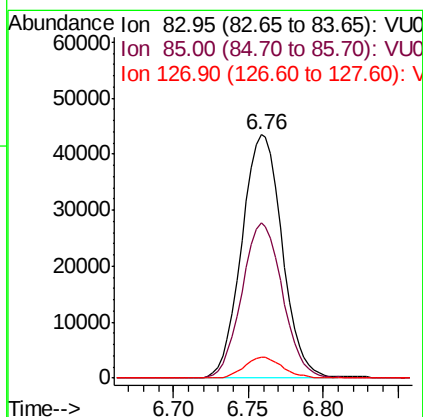
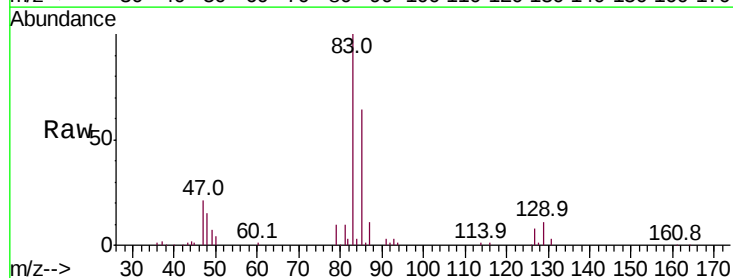
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

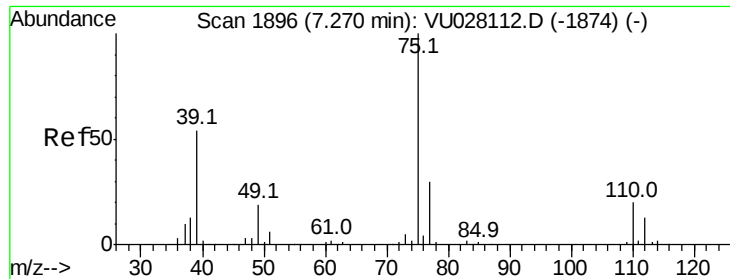
Tot Ion: 63 Resp: 77386
 Ion Ratio Lower Upper
 63 100
 112 2.8 2.2 3.4



#38
 Bromodichloromethane
 Concen: 4.794 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Tgt Ion: 83 Resp: 81757
 Ion Ratio Lower Upper
 83 100
 85 63.6 44.5 82.7
 127 8.5 6.8 10.2

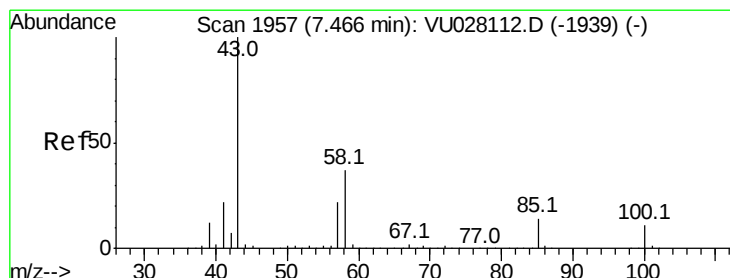
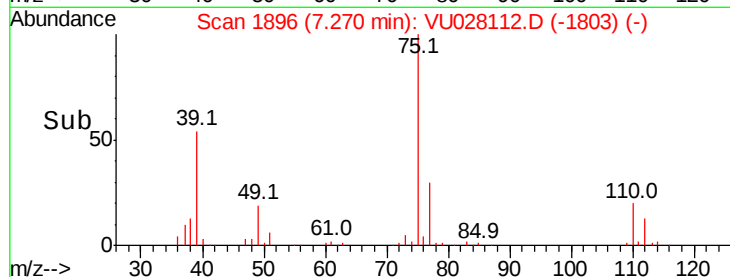
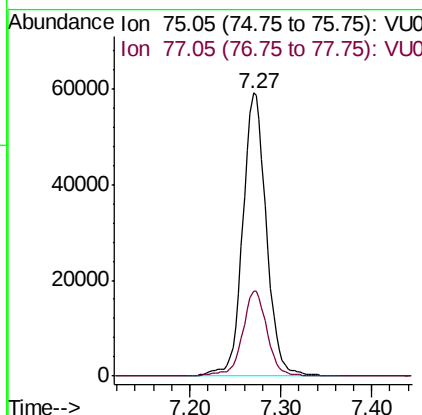
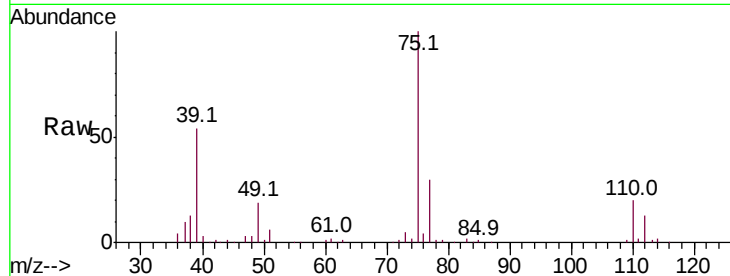




#39
 cis-1,3-Dichloropropene
 Concen: 4.921 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

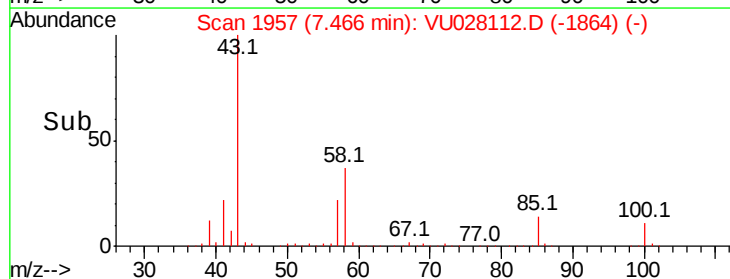
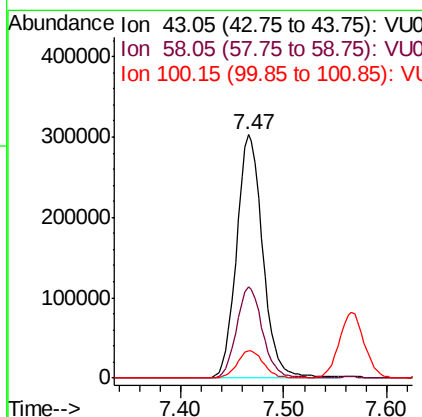
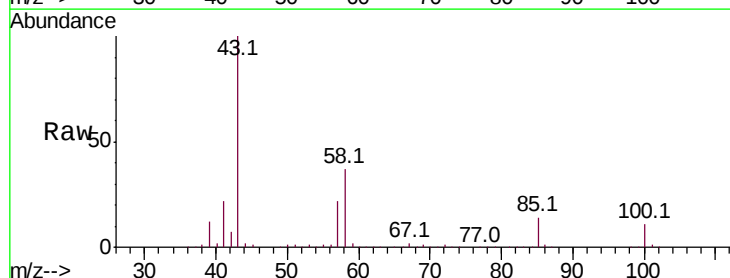
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

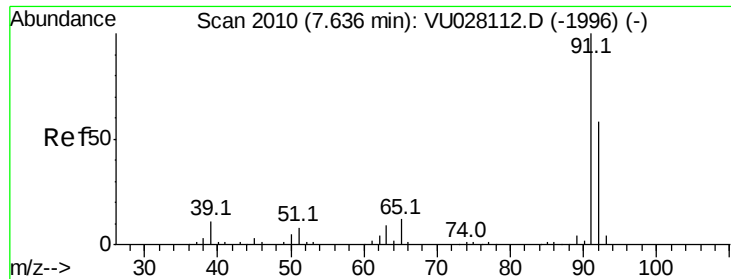
Tot Ion: 75 Resp: 106643
 Ion Ratio Lower Upper
 75 100
 77 29.9 20.9 38.9



#40
 4-Methyl-2-pentanone
 Concen: 48.479 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Tgt Ion: 43 Resp: 535087
 Ion Ratio Lower Upper
 43 100
 58 37.4 29.9 44.9
 100 11.4 9.1 13.7





#42

Toluene

Concen: 4.787 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

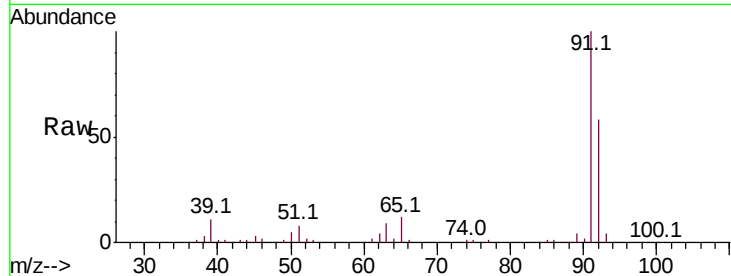
VSTD00546

Tot Ion: 91 Resp: 286100

Ion Ratio Lower Upper

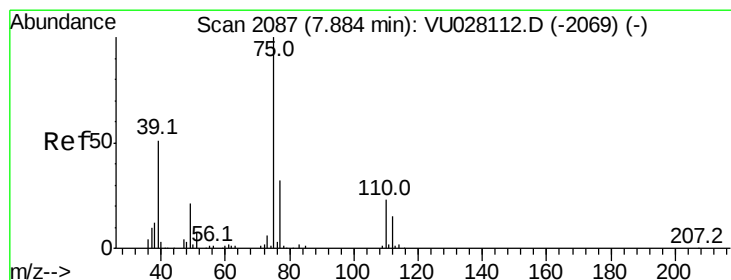
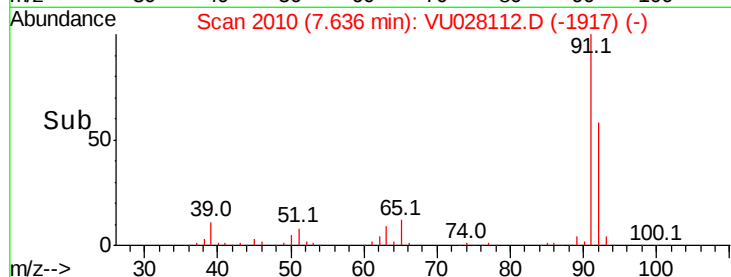
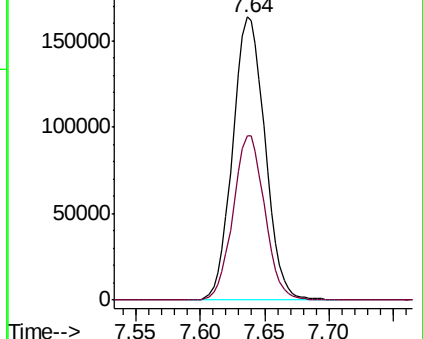
91 100

92 58.2 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.753 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU028112.D

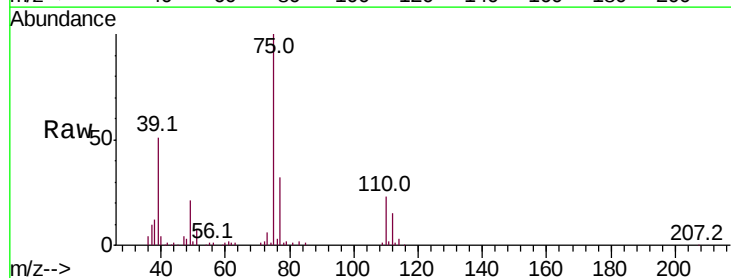
Acq: 14 Nov 2018 10:51

Tgt Ion: 75 Resp: 80703

Ion Ratio Lower Upper

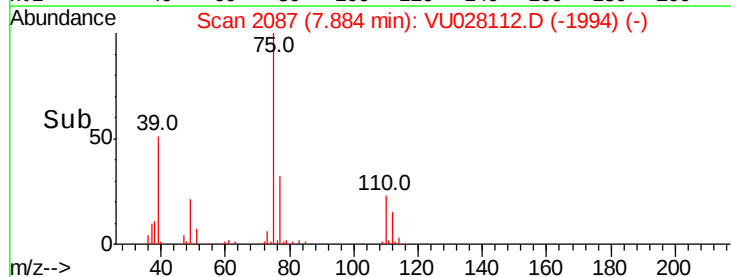
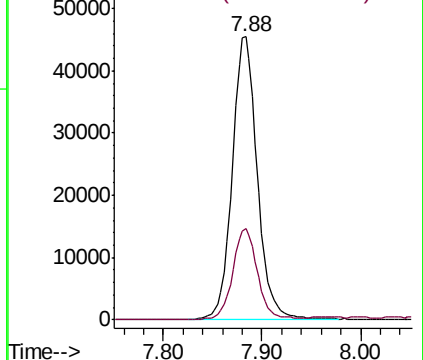
75 100

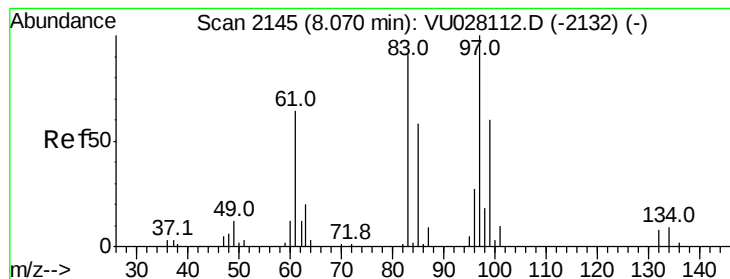
77 32.1 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 4.728 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

Tot Ion: 97 Resp: 45752

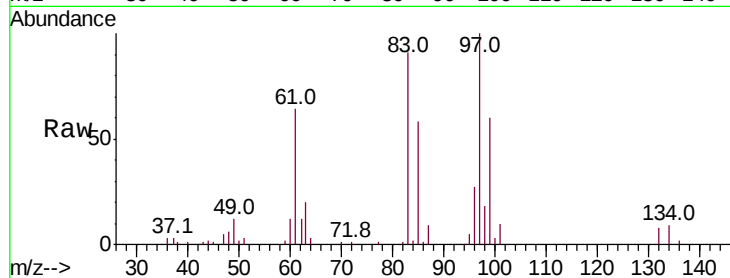
Ion Ratio Lower Upper

97 100

99 60.1 42.1 78.1

83 91.0 63.7 118.3

85 58.0 40.6 75.4

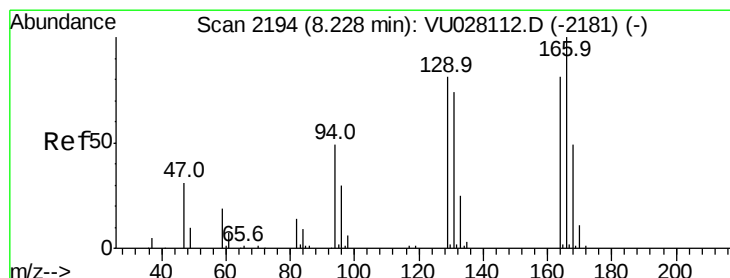
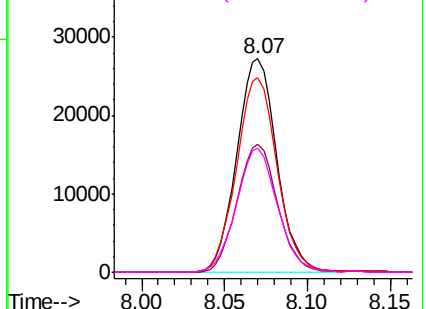
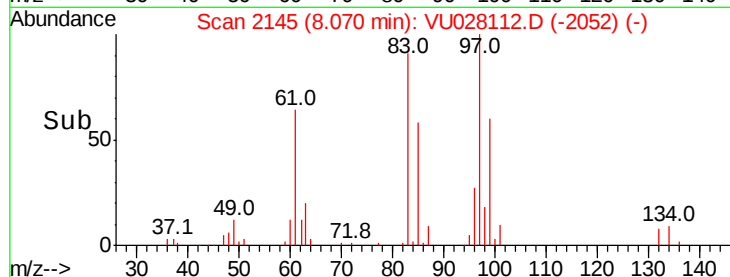


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.365 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Tgt Ion: 164 Resp: 50834

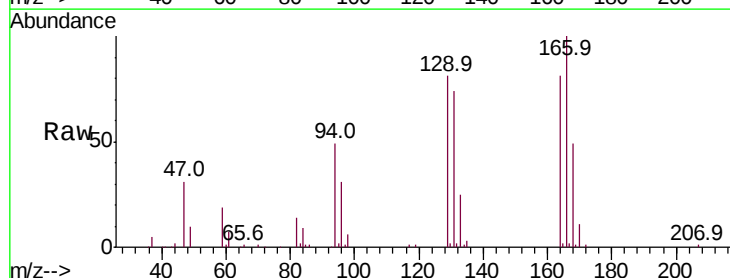
Ion Ratio Lower Upper

164 100

129 99.5 69.7 129.4

131 91.4 64.0 118.8

166 123.4 86.4 160.4

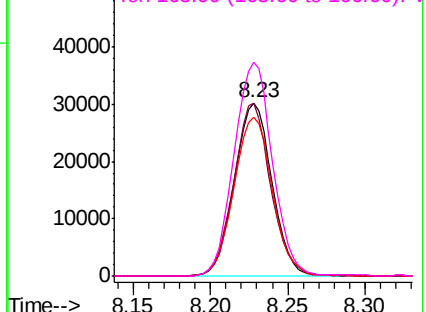
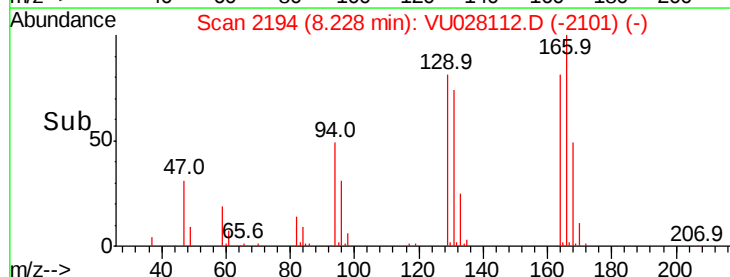


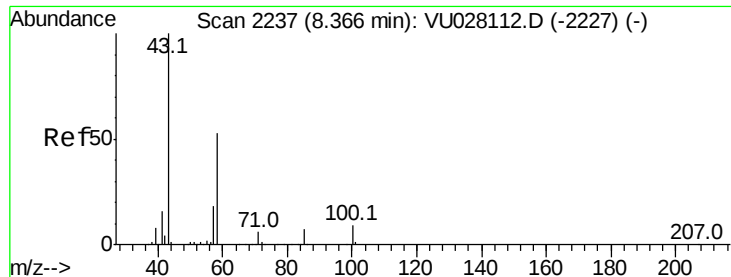
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

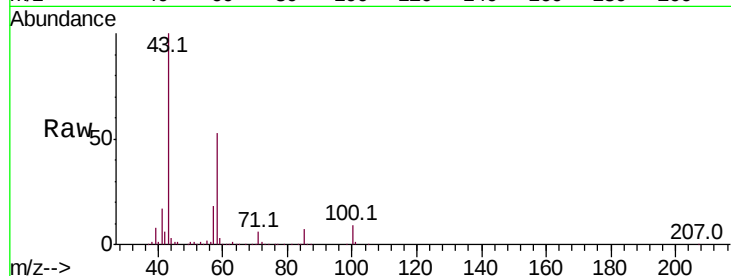




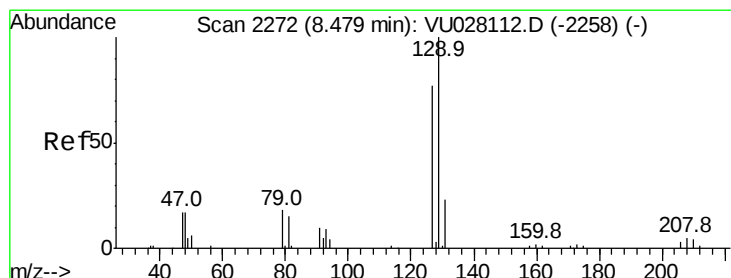
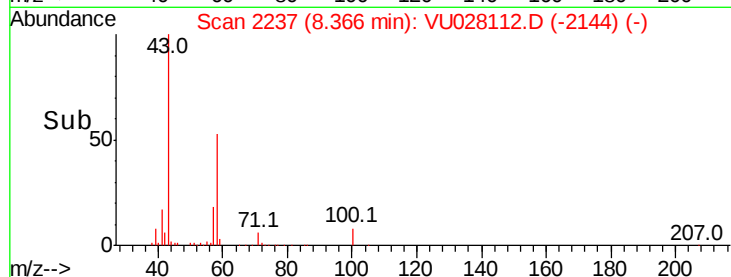
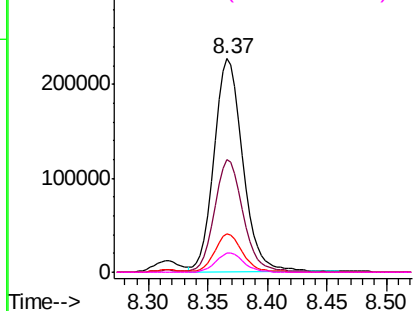
#48
2-Hexanone
Concen: 48.339 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

Tot Ion: 43 Resp: 379636
Ion Ratio Lower Upper
43 100
58 52.1 41.7 62.5
57 17.5 14.0 21.0
100 9.0 7.2 10.8

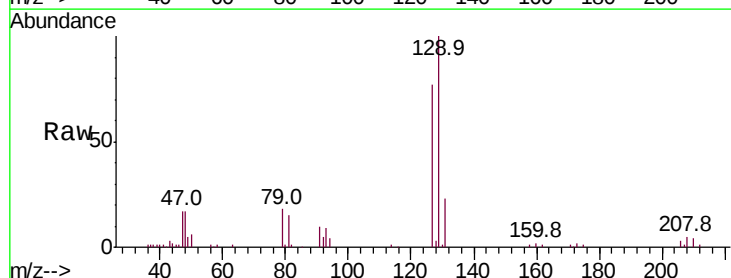


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

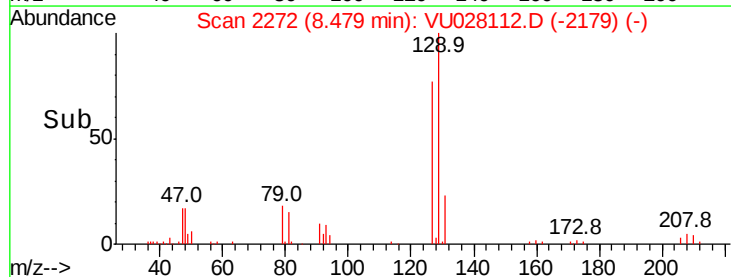
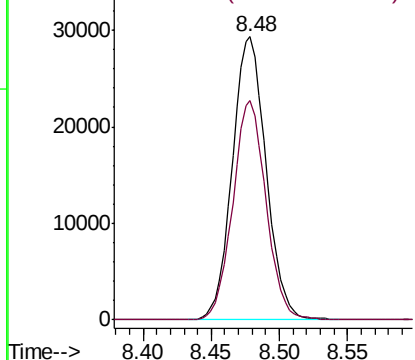


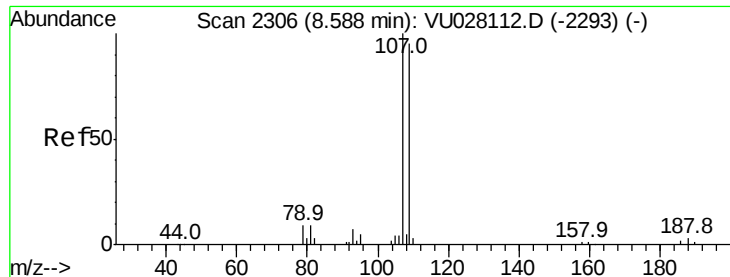
#49
Dibromochloromethane
Concen: 4.890 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Tgt Ion: 129 Resp: 50379
Ion Ratio Lower Upper
129 100
127 77.3 54.1 100.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

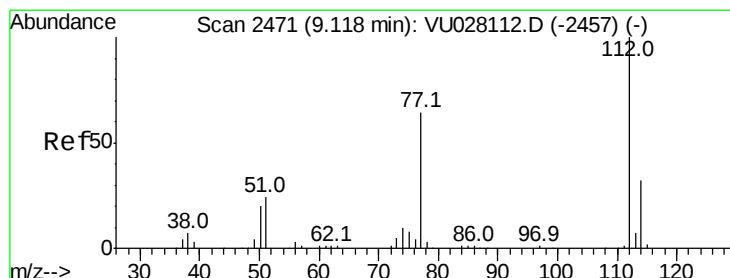
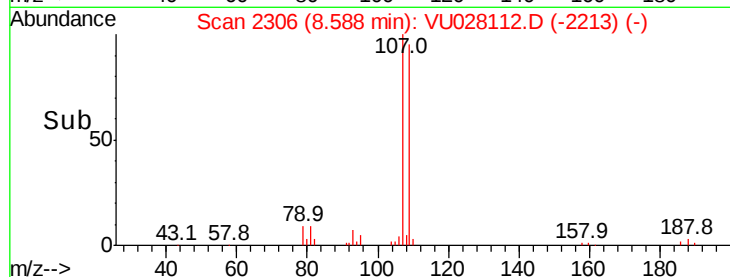
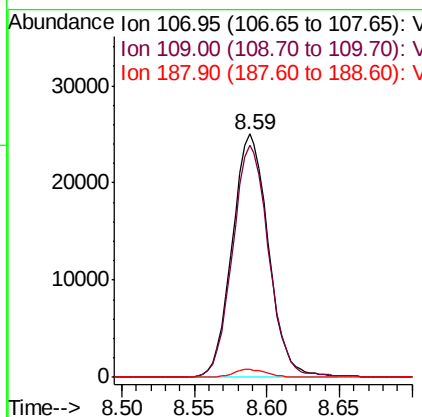
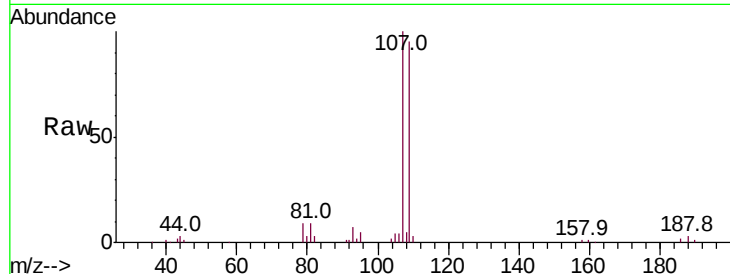




#50
1,2-Dibromoethane
Concen: 4.767 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

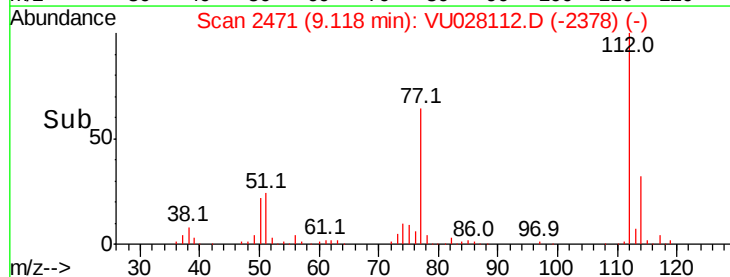
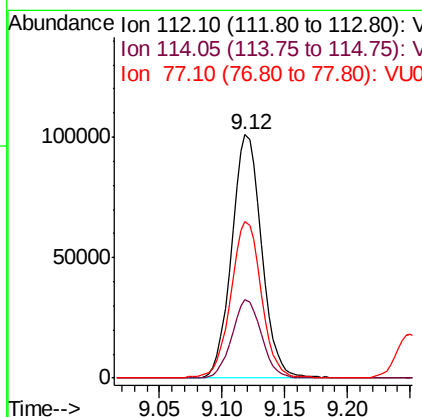
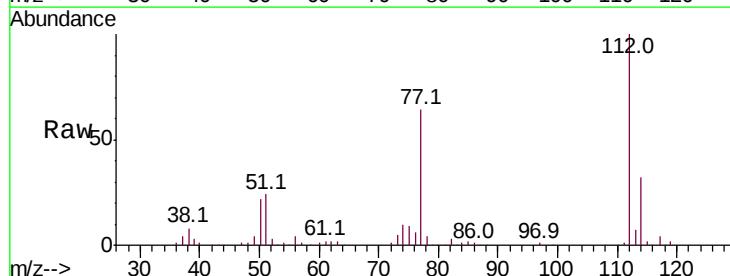
Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

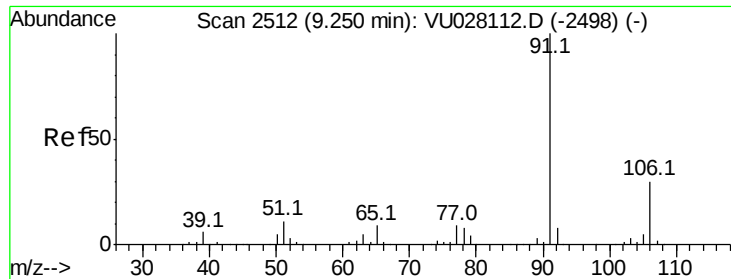
Tot Ion:107 Resp: 43429
Ion Ratio Lower Upper
107 100
109 95.2 66.6 123.8
188 3.1 2.5 3.7



#51
Chlorobenzene
Concen: 4.808 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Tgt Ion:112 Resp: 168018
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 64.1 51.3 76.9

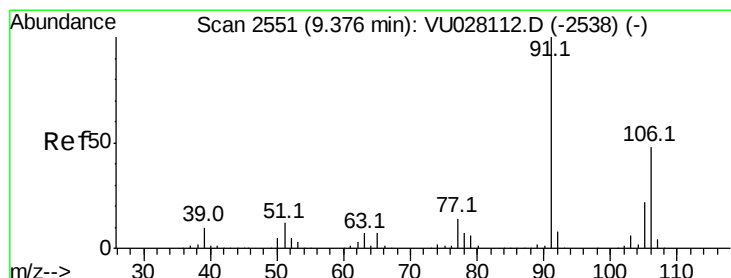
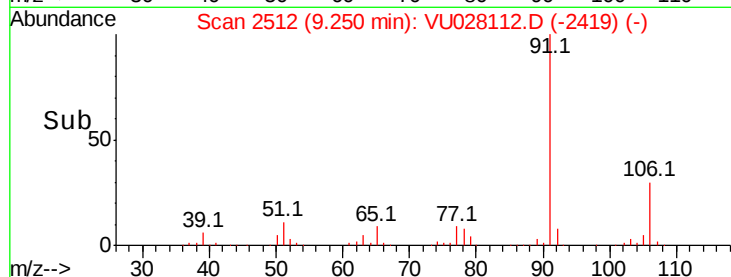
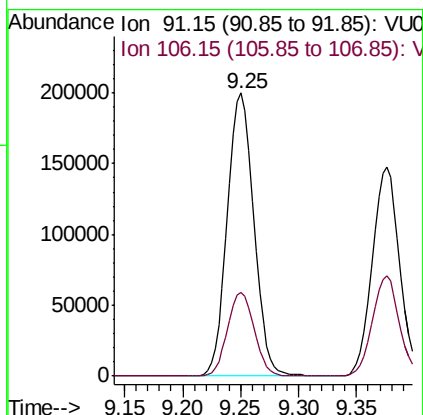
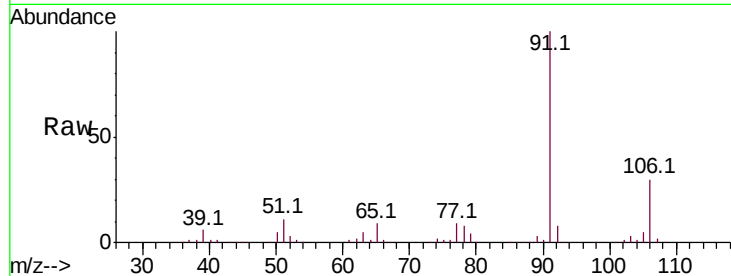




#52
Ethylbenzene
Concen: 4.857 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

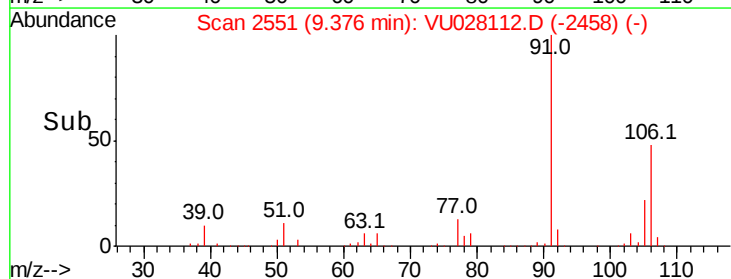
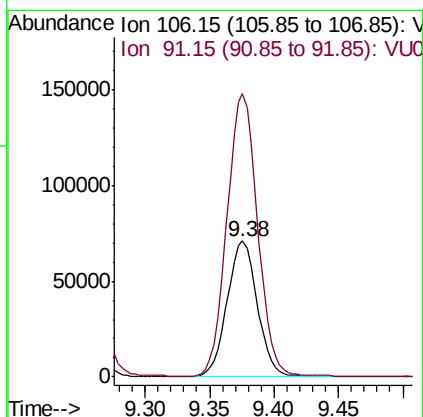
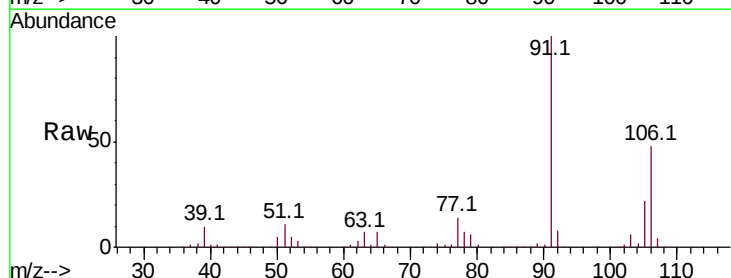
Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

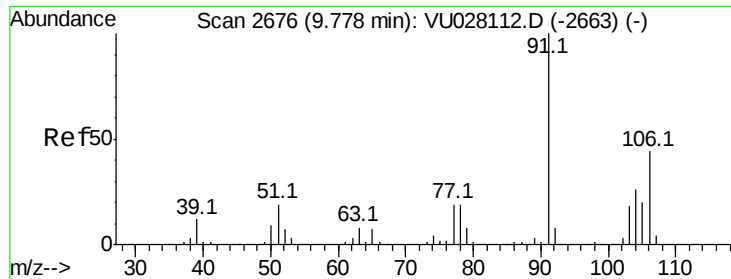
Tot Ion: 91 Resp: 316794
Ion Ratio Lower Upper
91 100
106 29.8 20.9 38.7



#53
m,p-xylene
Concen: 4.834 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Tgt Ion: 106 Resp: 114886
Ion Ratio Lower Upper
106 100
91 208.2 145.7 270.7





#54

o-xylene

Concen: 4.841 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

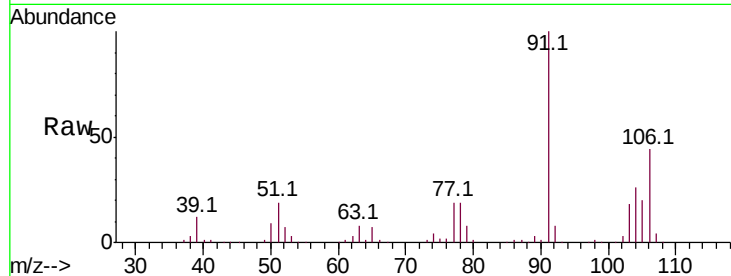
VSTD00546

Tot Ion:106 Resp: 110754

Ion Ratio Lower Upper

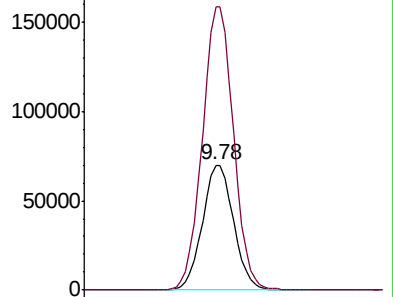
106 100

91 226.7 158.7 294.7

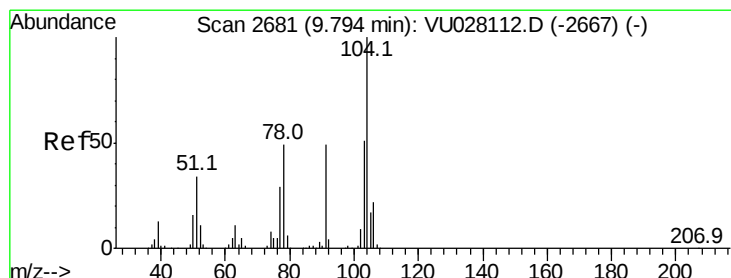
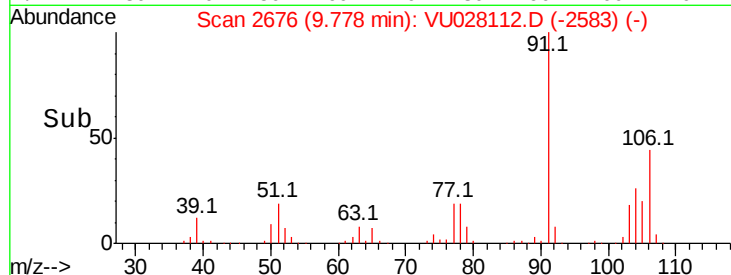


Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



Time--> 9.70 9.75 9.80 9.85



#55

Styrene

Concen: 4.821 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU028112.D

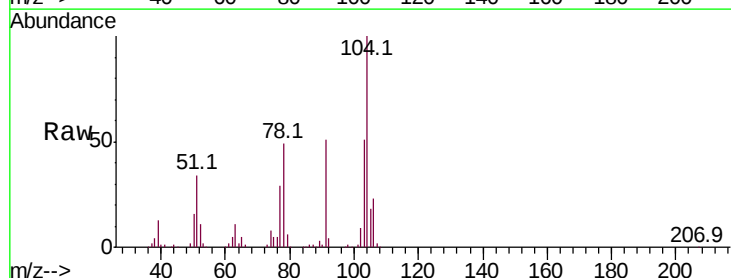
Acq: 14 Nov 2018 10:51

Tgt Ion:104 Resp: 186539

Ion Ratio Lower Upper

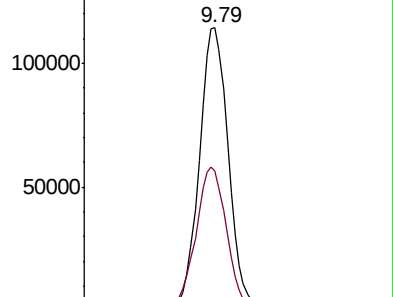
104 100

78 49.3 34.5 64.1

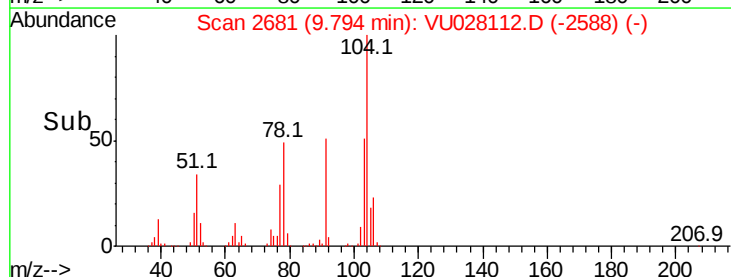


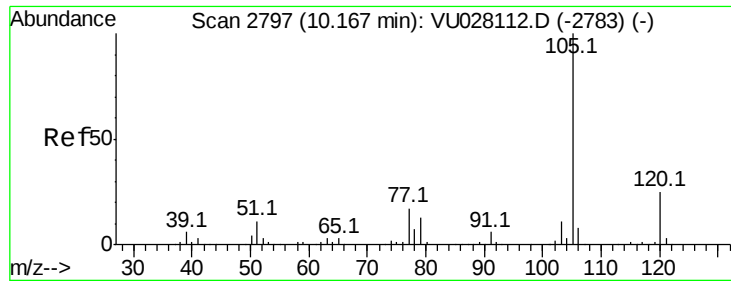
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



Time--> 9.70 9.75 9.80 9.85 9.90





#56

Isopropylbenzene

Concen: 4.767 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleID :

VSTD00546

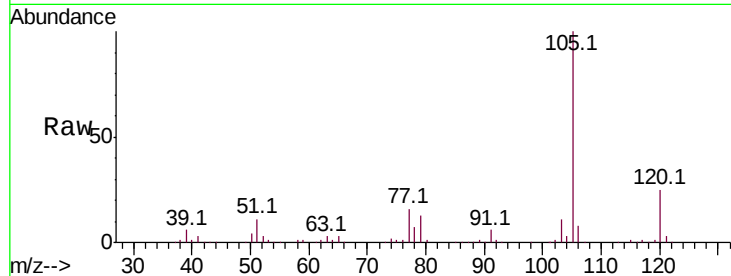
Tot Ion:105 Resp: 294992

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

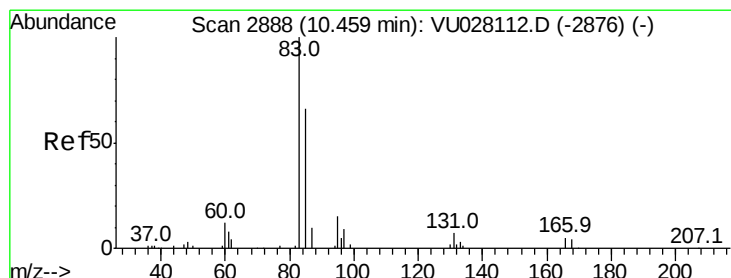
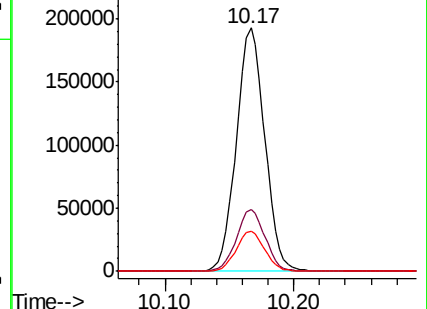
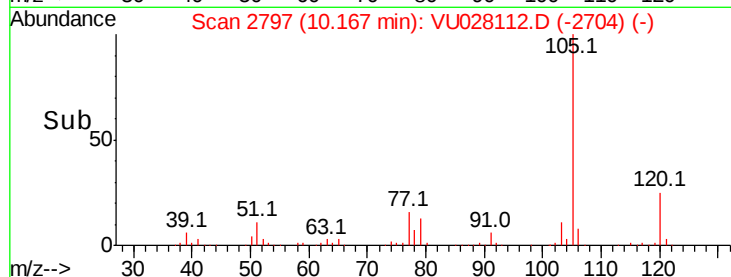
77 16.6 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.817 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

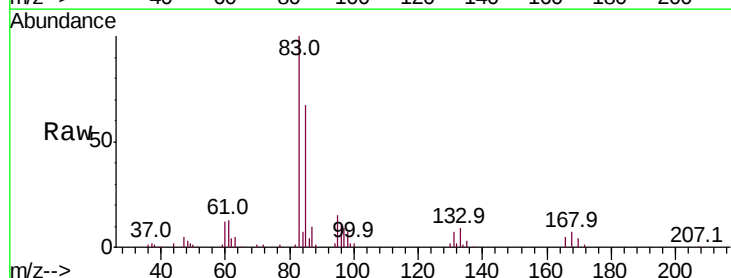
Tgt Ion: 83 Resp: 60076

Ion Ratio Lower Upper

83 100

85 66.7 46.7 86.7

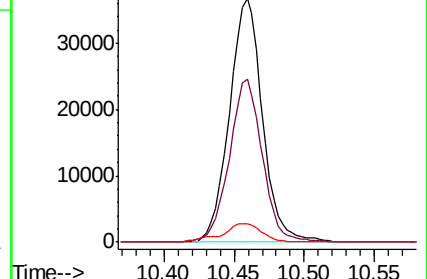
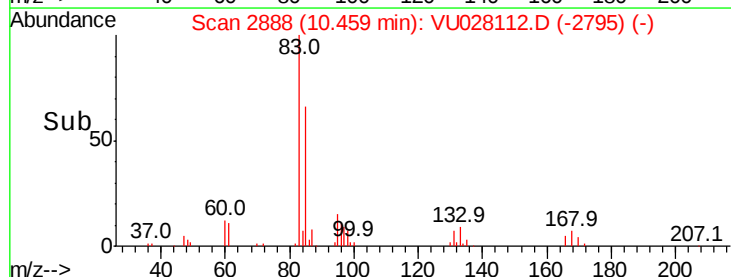
131 7.4 5.9 8.9

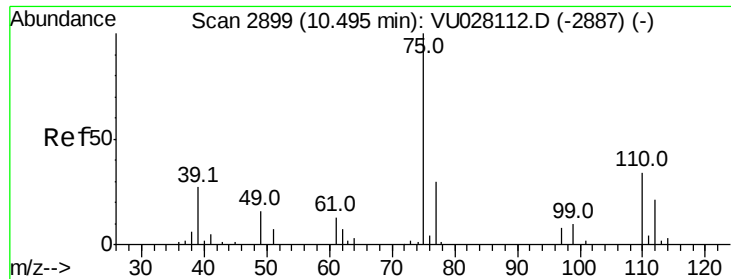


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.874 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

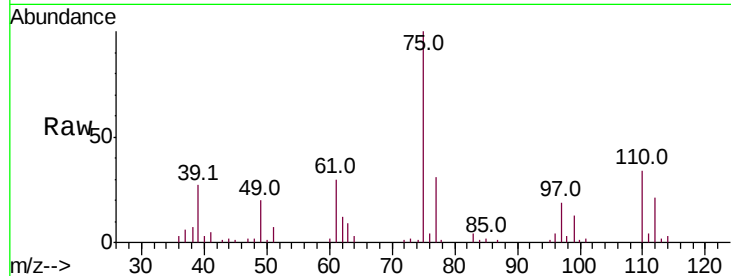
VSTD00546

Tot Ion: 75 Resp: 43879

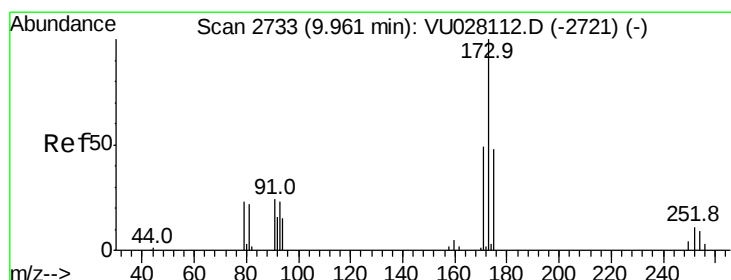
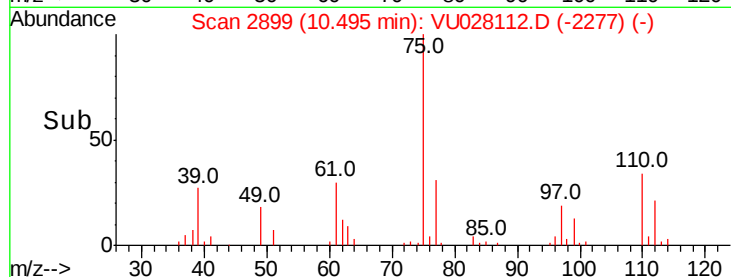
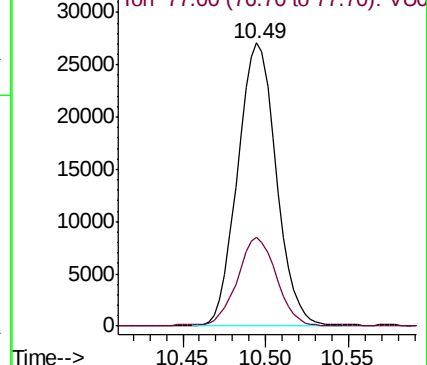
Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU028112.D (-2887) (-)



#61

Bromoform

Concen: 4.785 ug/L

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

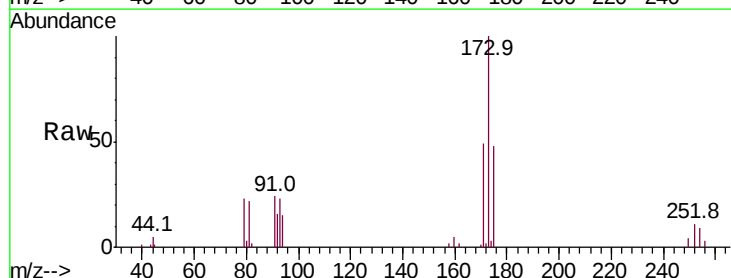
Tgt Ion:173 Resp: 26527

Ion Ratio Lower Upper

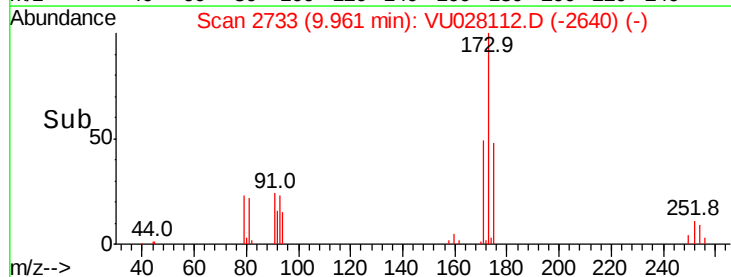
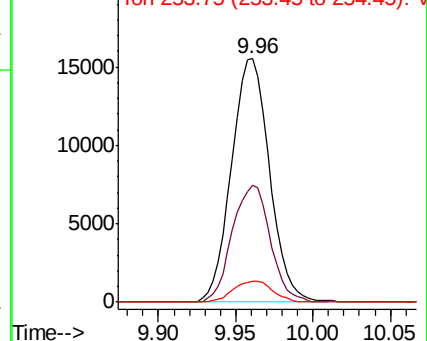
173 100

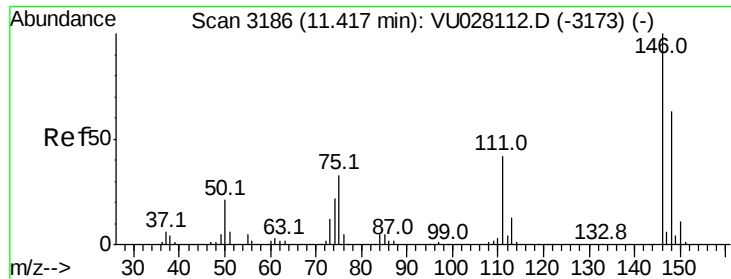
175 47.7 38.2 57.2

254 8.9 7.1 10.7



Abundance Ion 172.90 (172.60 to 173.60): VU028112.D (-2721) (-)

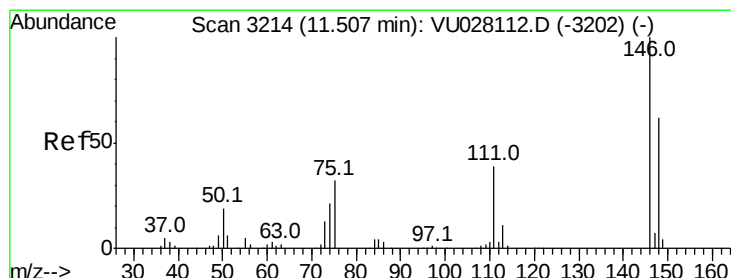
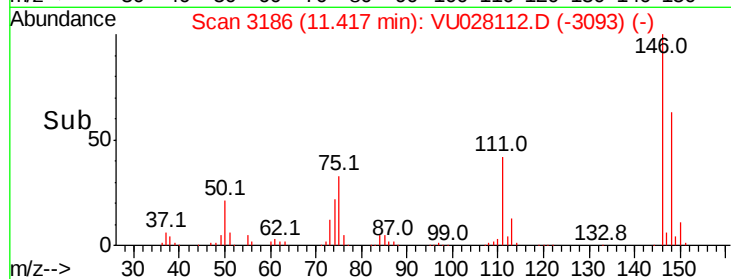
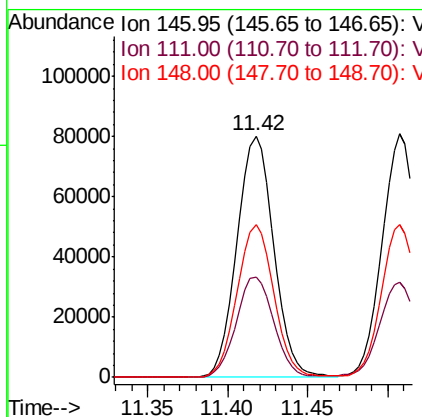
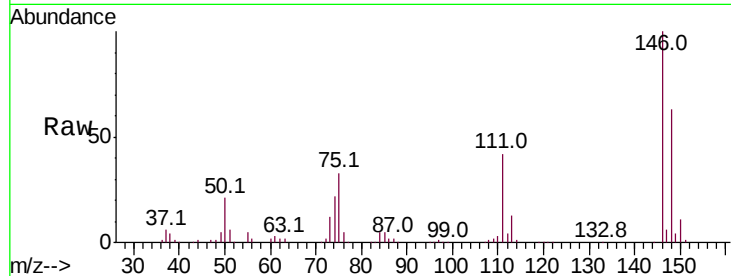




#62
 1,3-Dichlorobenzene
 Concen: 4.843 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

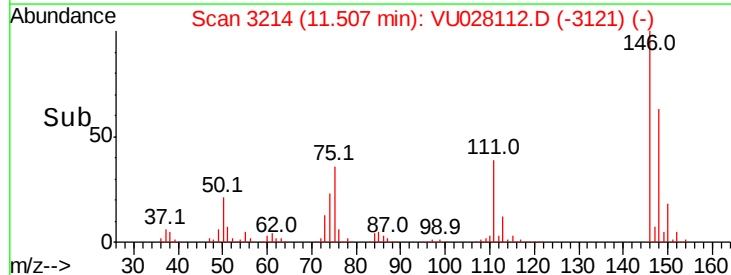
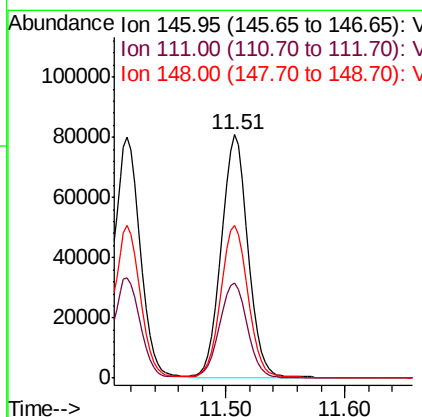
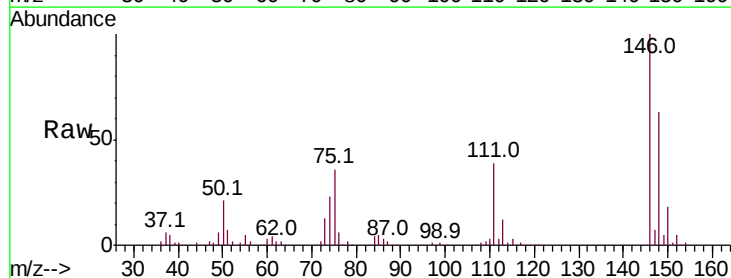
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

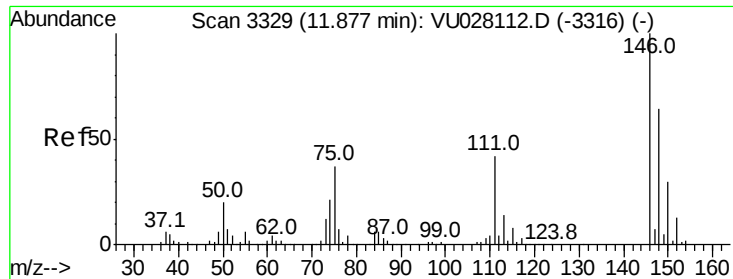
Tot Ion:146 Resp: 125571
 Ion Ratio Lower Upper
 146 100
 111 41.8 29.3 54.3
 148 63.0 44.1 81.9



#63
 1,4-Dichlorobenzene
 Concen: 4.806 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Tgt Ion:146 Resp: 126139
 Ion Ratio Lower Upper
 146 100
 111 39.2 27.4 51.0
 148 62.5 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 4.802 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD00546

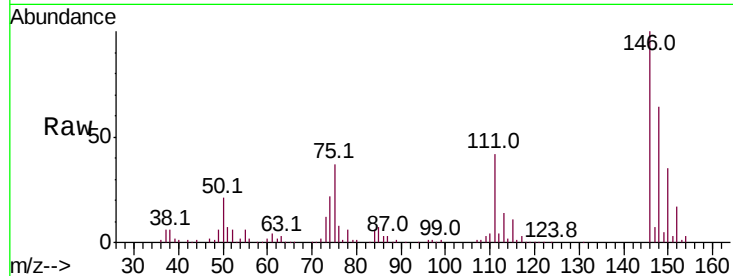
Tot Ion:146 Resp: 119068

Ion Ratio Lower Upper

146 100

111 42.4 33.9 50.9

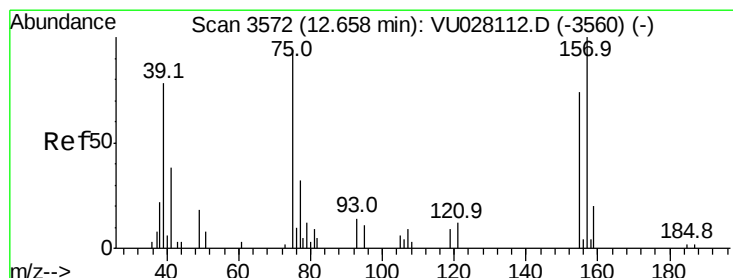
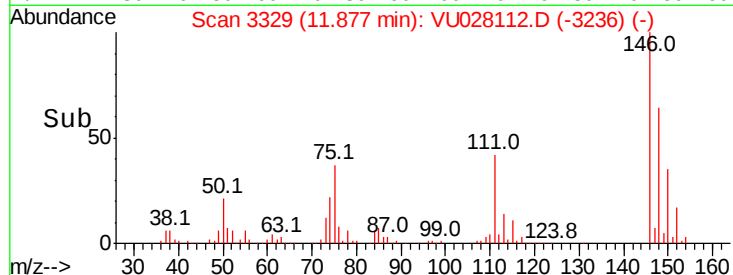
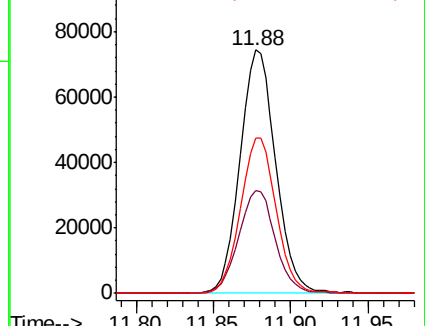
148 63.6 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.845 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU028112.D

Acq: 14 Nov 2018 10:51

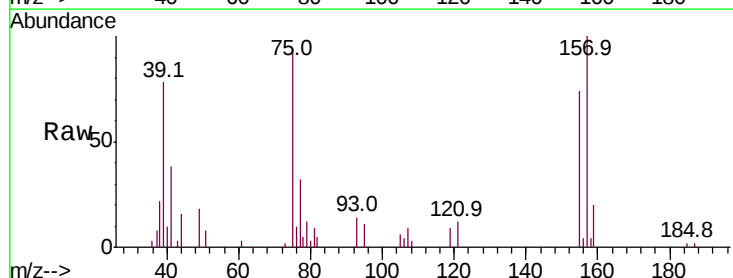
Tgt Ion: 75 Resp: 8716

Ion Ratio Lower Upper

75 100

155 78.5 62.8 94.2

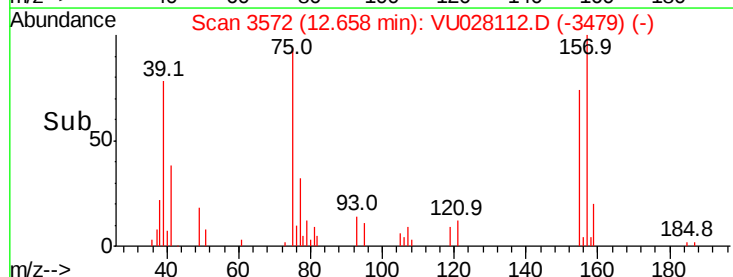
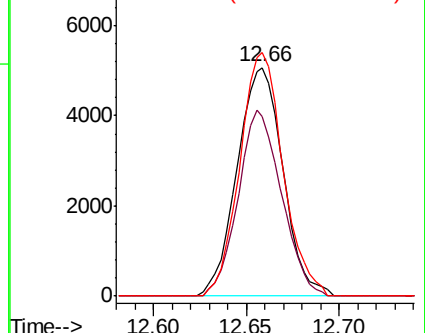
157 106.6 85.3 127.9

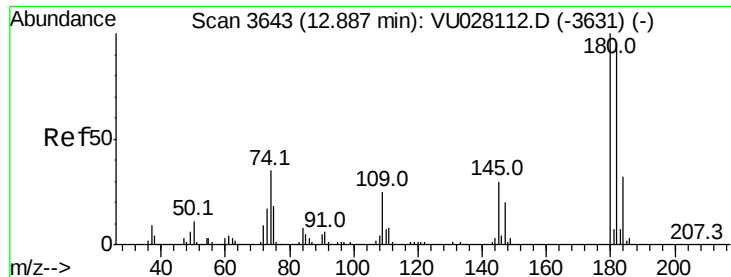


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

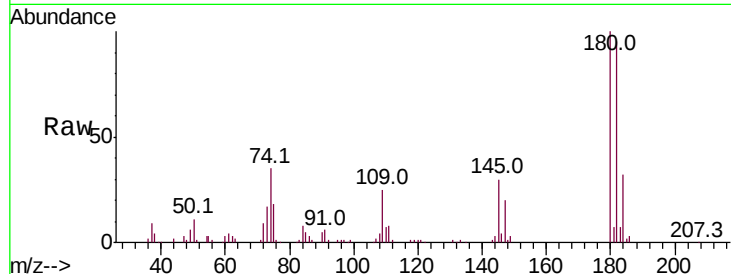




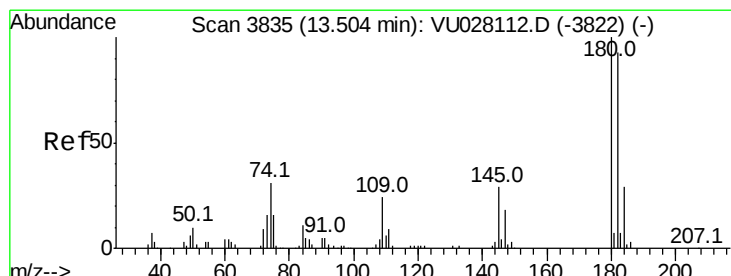
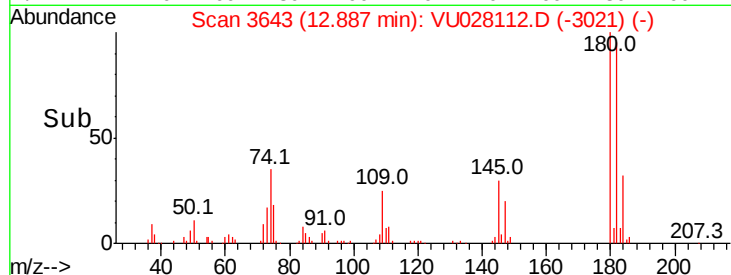
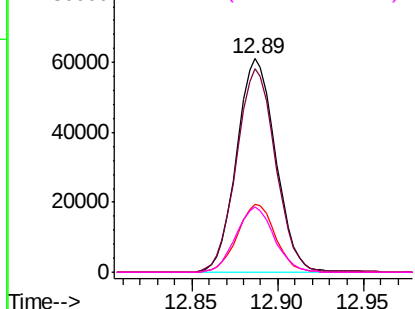
#67
 1,3,5-Trichlorobenzene
 Concen: 4.834 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00546

Tot Ion:180	Resp:	96141
Ion Ratio	Lower	Upper
180	100	
182	95.7	76.6 114.8
184	30.9	24.7 37.1
145	30.0	24.0 36.0

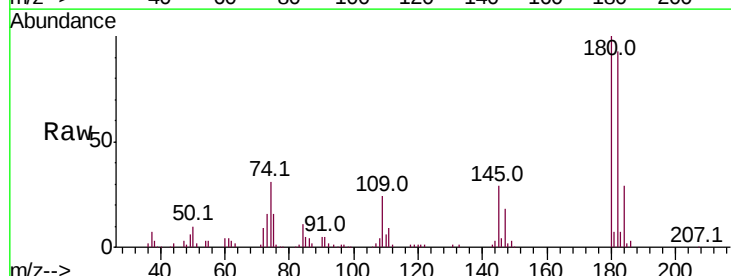


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

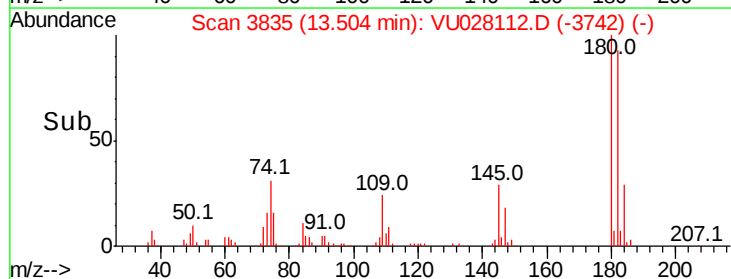
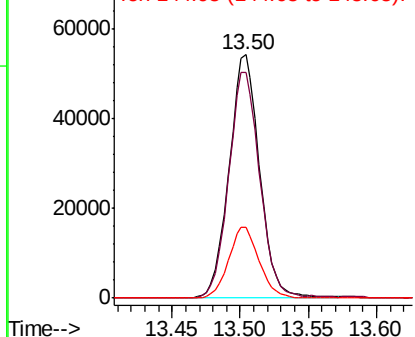


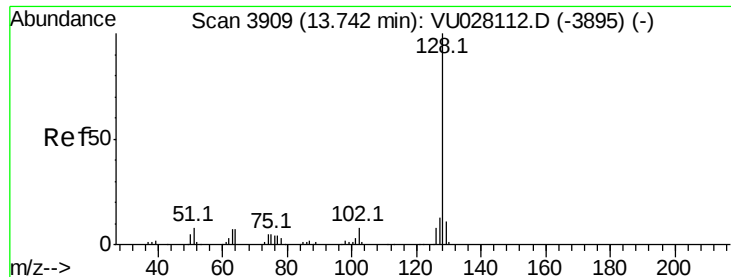
#68
 1,2,4-trichlorobenzene
 Concen: 4.864 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU028112.D
 Acq: 14 Nov 2018 10:51

Tgt Ion:180	Resp:	84326
Ion Ratio	Lower	Upper
180	100	
182	93.9	75.1 112.7
145	29.2	23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

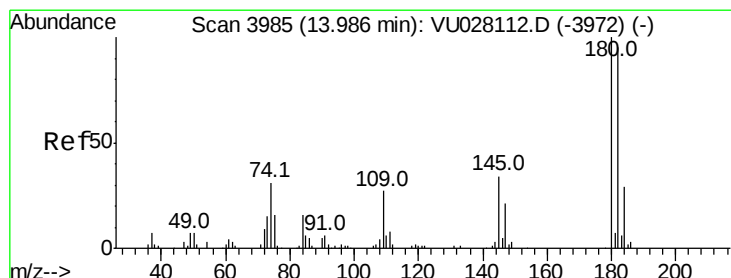
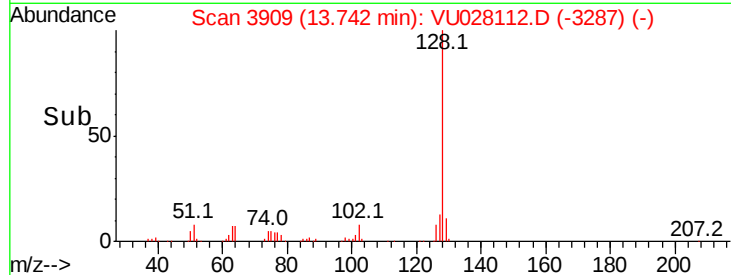
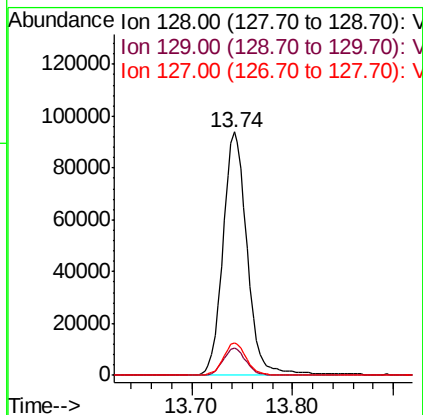
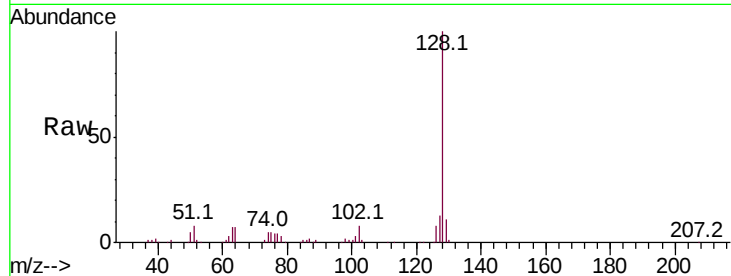




#69
Naphthalene
Concen: 4.879 ug/L
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD00546

Tot Ion:128 Resp: 157616
Ion Ratio Lower Upper
128 100
129 10.6 8.5 12.7
127 12.8 10.2 15.4



#70
1,2,3-Trichlorobenzene
Concen: 4.827 ug/L
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028112.D
Acq: 14 Nov 2018 10:51

Tgt Ion:180 Resp: 77089
Ion Ratio Lower Upper
180 100
182 97.0 77.6 116.4
145 32.8 26.2 39.4

