

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028114.D
 Acq On : 14 Nov 2018 11:39
 Operator : MD/SY
 Sample : VSTD02048
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

Quant Time: Nov 15 04:07:43 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	175420	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	167458	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	83642	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	325061	22.33	ug/L	0.00
7) Chloroethane-d5	1.68	69	260696	22.55	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	596214	21.93	ug/L	0.00
20) 2-Butanone-d5	4.20	46	961280	227.69	ug/L	0.00
24) Chloroform-d	4.65	84	528384	22.82	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	284269	21.99	ug/L	0.00
32) Benzene-d6	5.34	84	1086342	22.59	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	382374	22.23	ug/L	0.00
41) Toluene-d8	7.57	98	985470	22.02	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	146524	23.90	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	824895	235.44	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	280508	23.08	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	346897	22.19	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	336210	21.729	ug/L 100
3) Chloromethane	1.33	50	423855	21.431	ug/L 100
5) Vinyl chloride	1.41	62	411644	21.908	ug/L 98
6) Bromomethane	1.63	94	205450	22.828	ug/L 100
8) Chloroethane	1.70	64	234219	20.706	ug/L 98
9) Trichlorofluoromethane	1.89	101	442419	21.586	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	253255	22.010	ug/L 96
12) 1,1-Dichloroethene	2.29	96	248259	21.285	ug/L 96
13) Acetone	2.34	43	568547	199.950	ug/L 100
14) Carbon disulfide	2.48	76	849734	21.727	ug/L 99
15) Methyl Acetate	2.63	43	155300	20.423	ug/L 99
16) Methylene chloride	2.70	84	274980	19.954	ug/L 98
17) Methyl tert-butyl Ether	3.01	73	694742	21.305	ug/L 99
18) trans-1,2-Dichloroethene	2.98	96	259061	20.891	ug/L 99
19) 1,1-Dichloroethane	3.45	63	561322	21.524	ug/L 100
21) 2-Butanone	4.29	43	983738	219.222	ug/L 98
22) cis-1,2-Dichloroethene	4.23	96	302021	22.090	ug/L 99
23) Bromochloromethane	4.55	128	119073	22.040	ug/L 97
25) Chloroform	4.67	83	511966	21.886	ug/L 98
27) 1,2-Dichloroethane	5.41	62	339344	22.070	ug/L 99
29) 1,1,1-Trichloroethane	4.92	97	417109	22.007	ug/L 99
30) Cyclohexane	4.99	56	579915	21.820	ug/L 99
31) Carbon tetrachloride	5.13	117	353005	22.442	ug/L 99
33) Benzene	5.39	78	1214512	21.529	ug/L 100
34) Trichloroethene	6.19	95	303439	21.763	ug/L 98
35) Methylcyclohexane	6.41	83	523012	21.820	ug/L 99
37) 1,2-Dichloropropane	6.43	63	338566	21.702	ug/L 99
38) Bromodichloromethane	6.76	83	371512	22.381	ug/L 99
39) cis-1,3-Dichloropropene	7.27	75	487245	23.100	ug/L 97
40) 4-Methyl-2-pentanone	7.47	43	2396406	223.061	ug/L 100

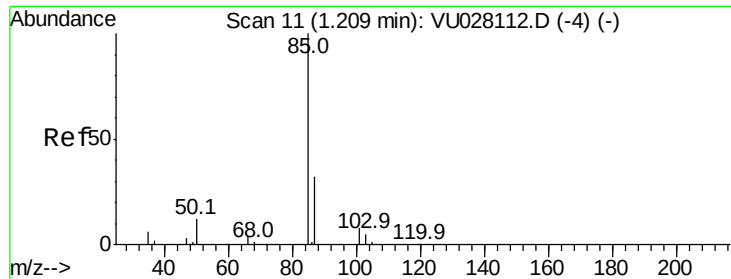
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	1273557	21.894	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	378348	22.891	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	205705	21.840	ug/L	99
47) Tetrachloroethene	8.23	164	216274	19.079	ug/L	96
48) 2-Hexanone	8.37	43	1721046	225.142	ug/L	100
49) Dibromochloromethane	8.48	129	233379	23.275	ug/L	99
50) 1,2-Dibromoethane	8.59	107	198072	22.336	ug/L	99
51) Chlorobenzene	9.12	112	733251	21.558	ug/L	98
52) Ethylbenzene	9.25	91	1425093	22.446	ug/L	100
53) m,p-xylene	9.38	106	511992	22.134	ug/L	96
54) o-xylene	9.78	106	504884	22.671	ug/L	99
55) Styrene	9.79	104	870511	23.115	ug/L	99
56) Isopropylbenzene	10.17	105	1351251	22.432	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	270221	22.258	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	191945	21.905	ug/L	99
61) Bromoform	9.96	173	128122	22.654	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	581368	21.982	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	577414	21.568	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	537961	21.271	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	42758	23.300	ug/L	93
67) 1,3,5-Trichlorobenzene	12.89	180	452412	22.299	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	406423	22.982	ug/L	99
69) Naphthalene	13.74	128	774376	23.497	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	370044	22.716	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 21.729 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

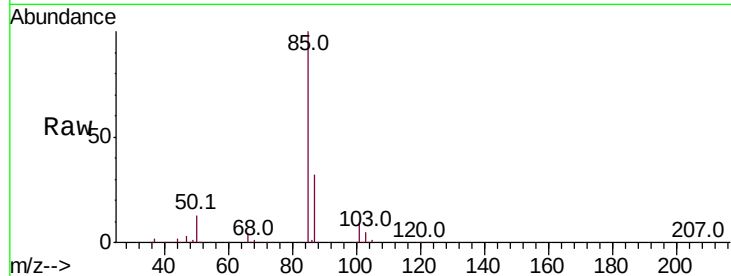
VSTD02048

Tot Ion: 85 Resp: 336210

Ion Ratio Lower Upper

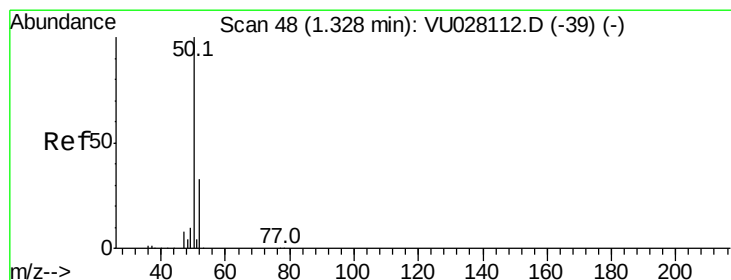
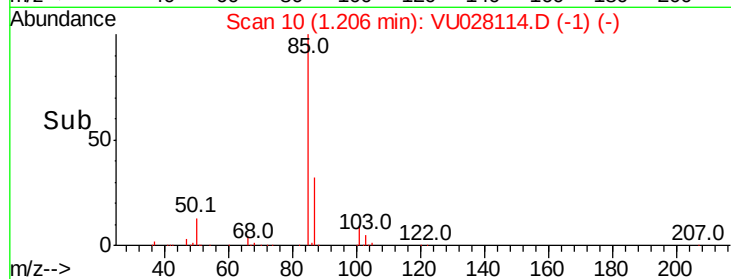
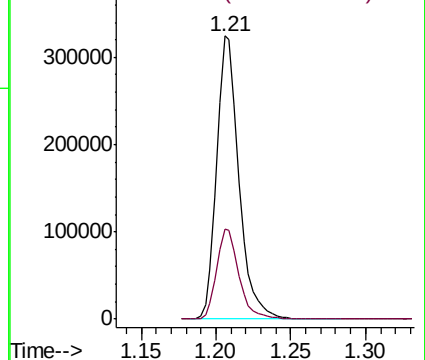
85 100

87 31.9 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: 21.431 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028114.D

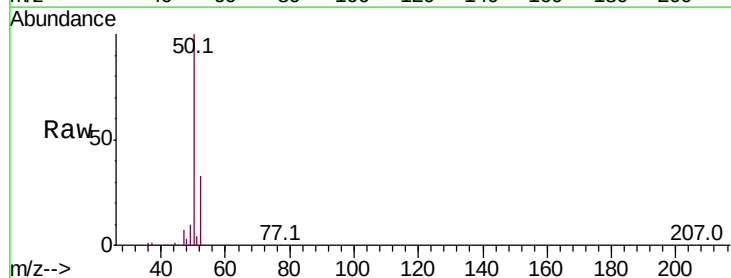
Acq: 14 Nov 2018 11:39

Tgt Ion: 50 Resp: 423855

Ion Ratio Lower Upper

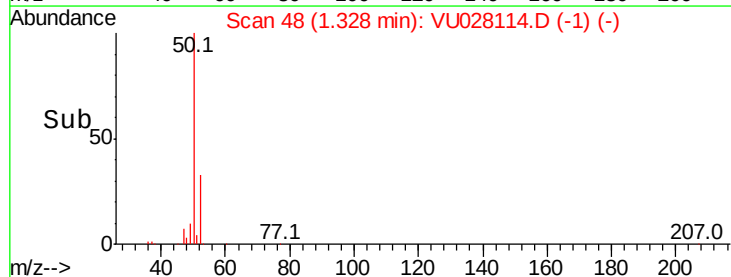
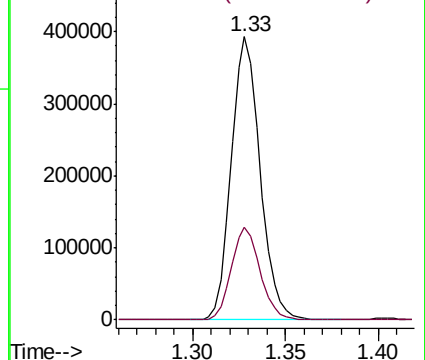
50 100

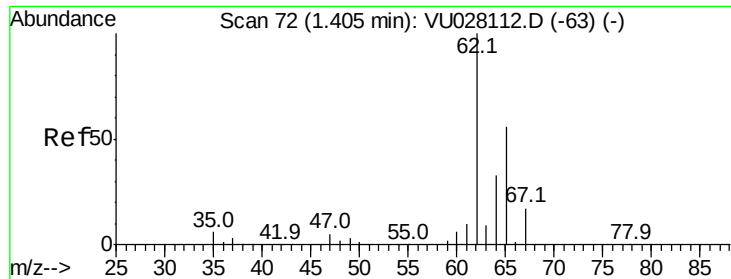
52 32.7 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 21.908 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

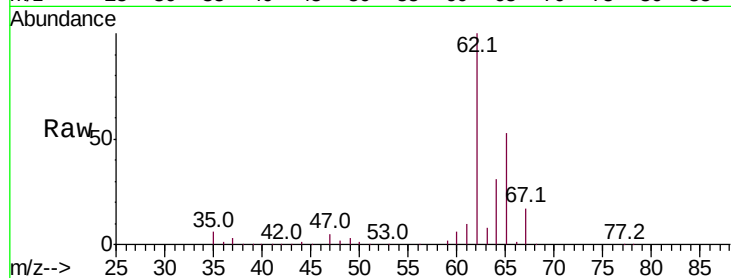
VSTD02048

Tot Ion: 62 Resp: 411644

Ion Ratio Lower Upper

62 100

64 31.4 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.41

400000

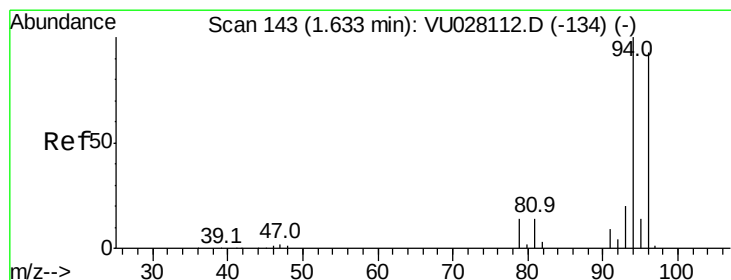
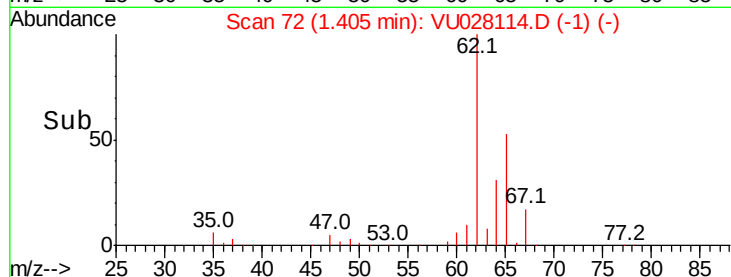
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 22.828 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU028114.D

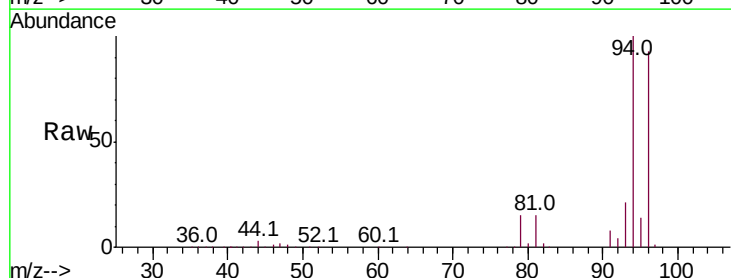
Acq: 14 Nov 2018 11:39

Tgt Ion: 94 Resp: 205450

Ion Ratio Lower Upper

94 100

96 92.8 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.63

200000

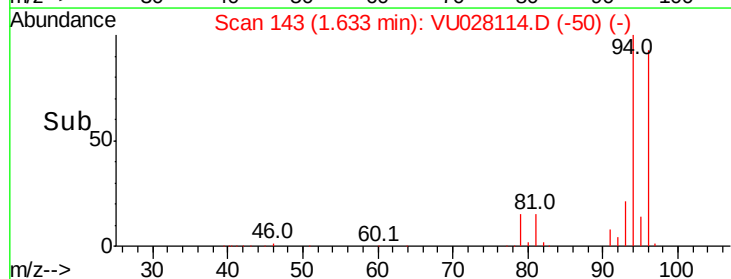
150000

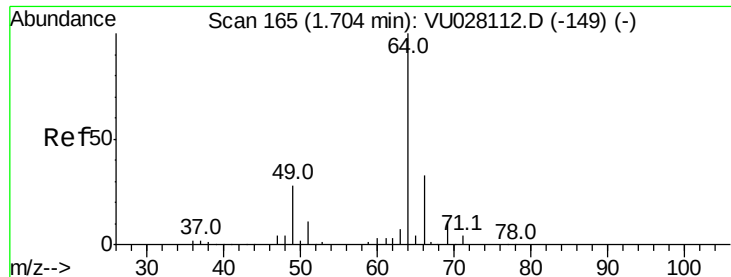
100000

50000

0

Time-->





#8

Chloroethane

Concen: 20.706 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

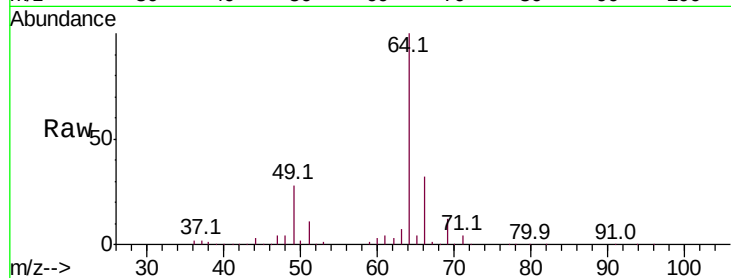
VSTD02048

Tot Ion: 64 Resp: 234219

Ion Ratio Lower Upper

64 100

66 32.0 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

200000

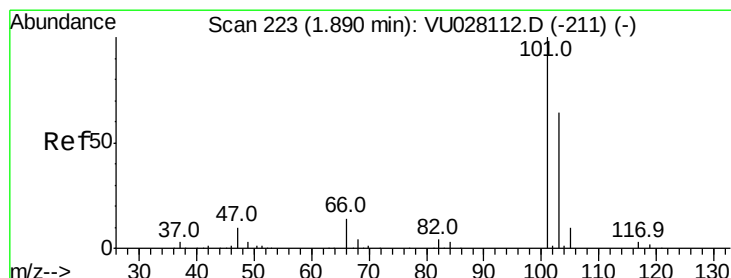
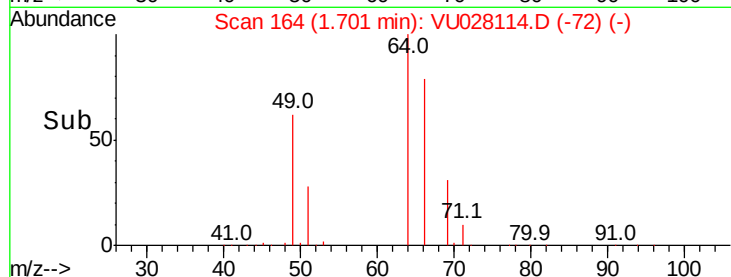
150000

100000

50000

0

Time--> 1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 21.586 ug/L

RT: 1.89 min Scan# 222

Delta R.T. -0.00 min

Lab File: VU028114.D

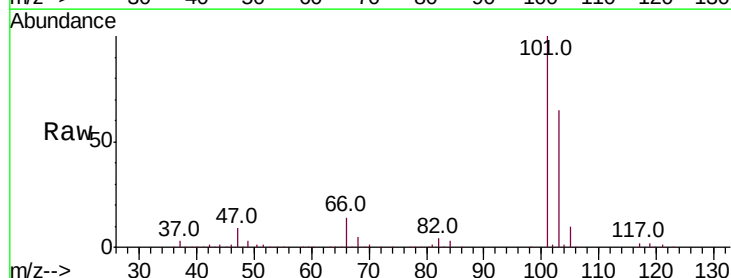
Acq: 14 Nov 2018 11:39

Tgt Ion: 101 Resp: 442419

Ion Ratio Lower Upper

101 100

103 64.9 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

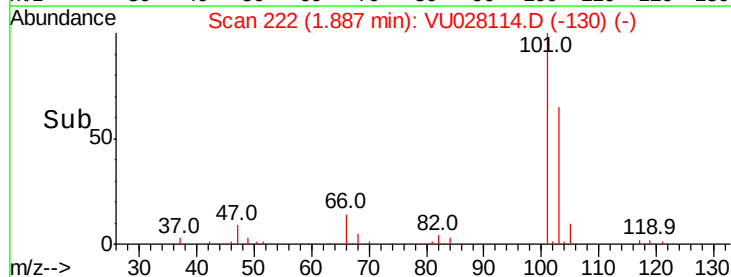
300000

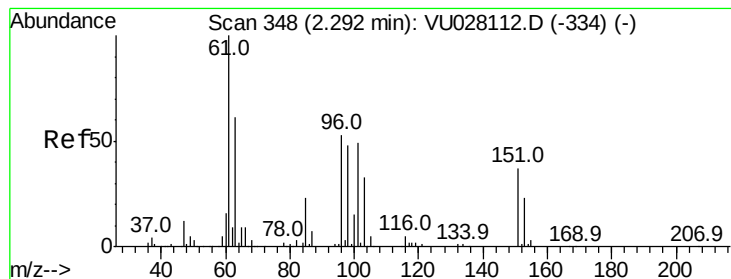
200000

100000

0

Time--> 1.80 1.85 1.90 1.95





#10

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

Concen: 22.010 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampled :

VSTD02048

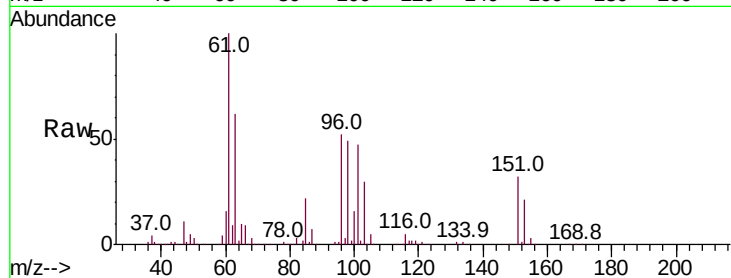
Tot Ion:101 Resp: 253255

Ion Ratio Lower Upper

101 100

85 45.3 37.6 56.4

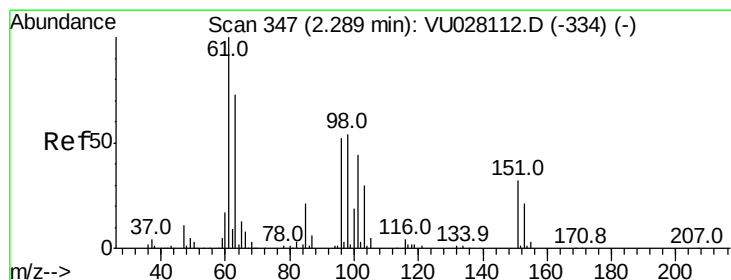
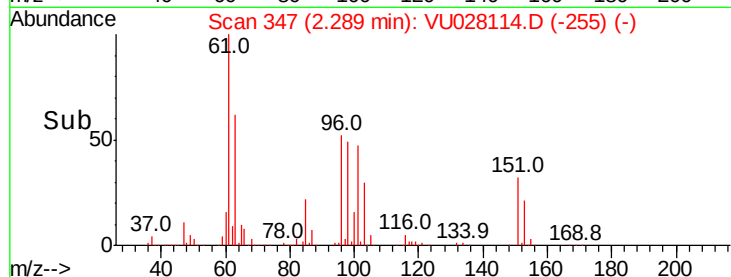
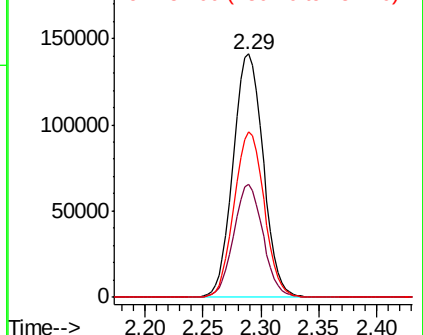
151 68.3 58.2 87.2



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: 21.285 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

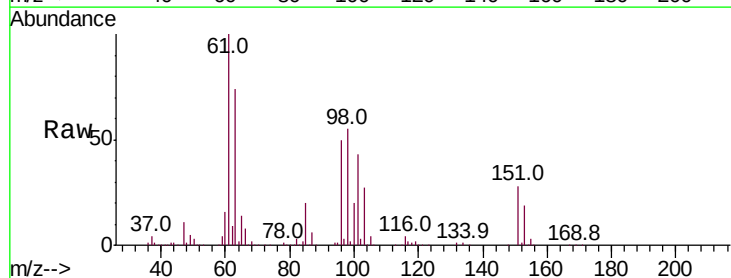
Tgt Ion: 96 Resp: 248259

Ion Ratio Lower Upper

96 100

61 198.1 134.8 250.3

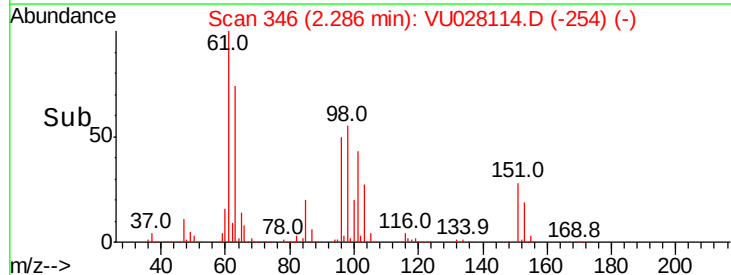
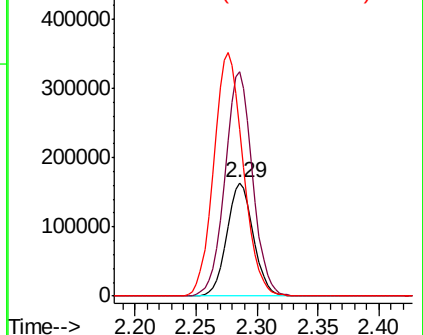
63 147.5 100.1 185.9

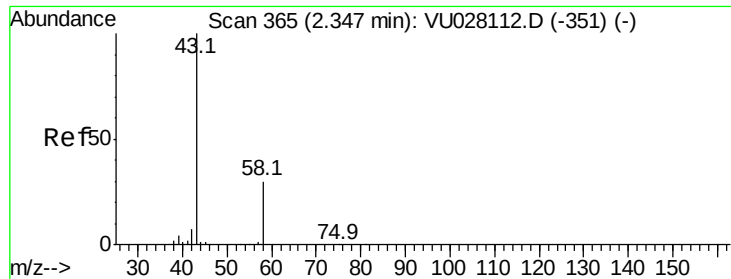


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 199.950 ug/L

RT: 2.34 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

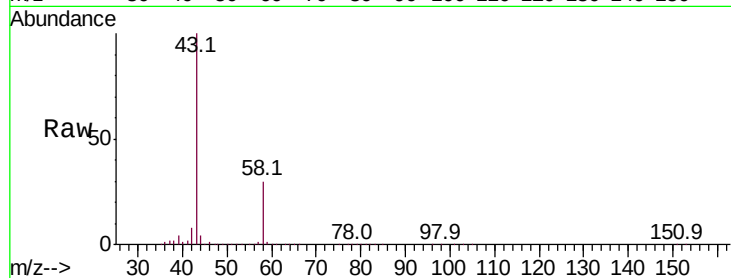
VSTD02048

Tot Ion: 43 Resp: 568547

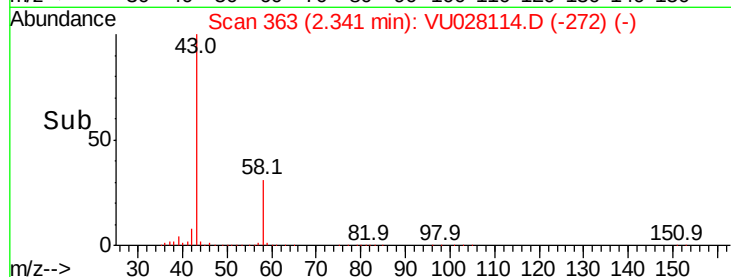
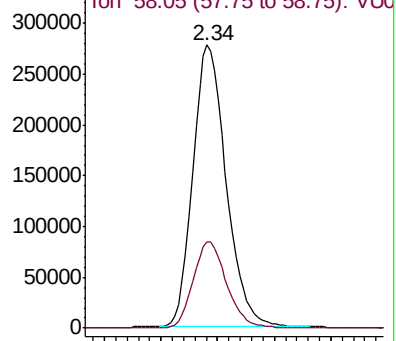
Ion Ratio Lower Upper

43 100

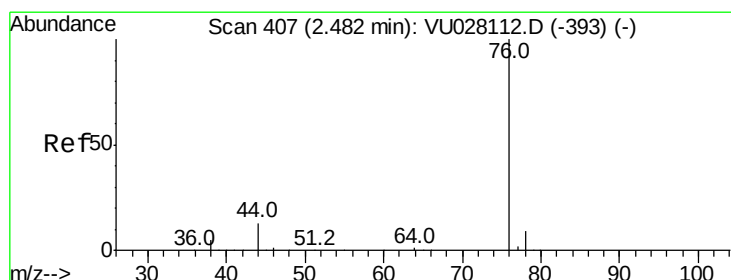
58 30.7 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU028112.D (-351) (-)



Time-->



#14

Carbon disulfide

Concen: 21.727 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028114.D

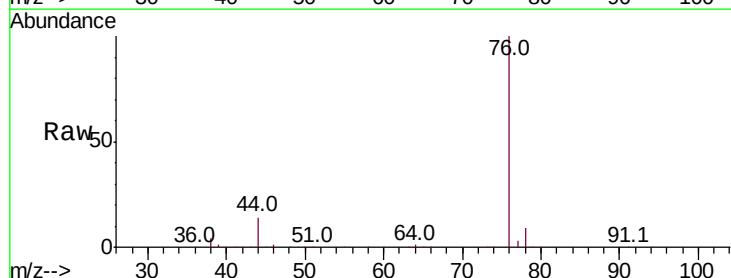
Acq: 14 Nov 2018 11:39

Tgt Ion: 76 Resp: 849734

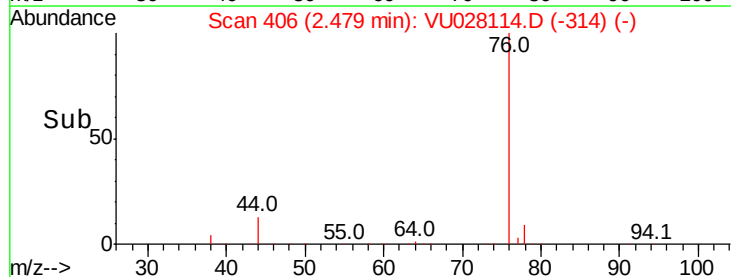
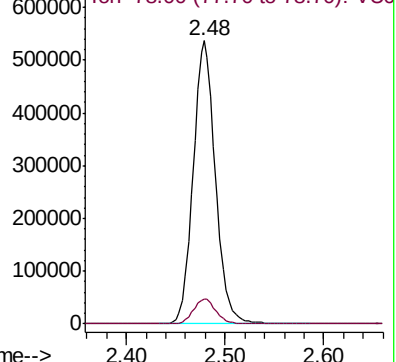
Ion Ratio Lower Upper

76 100

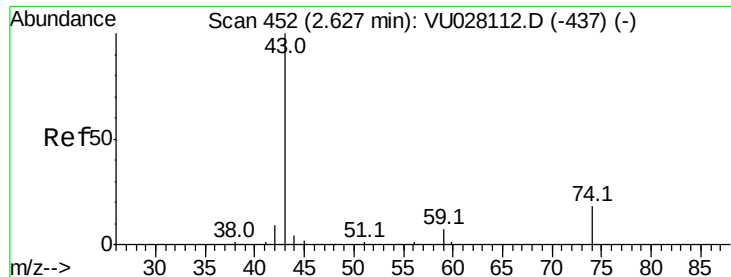
78 9.0 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU028112.D (-393) (-)



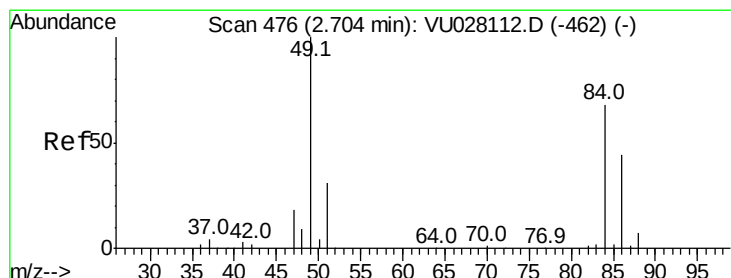
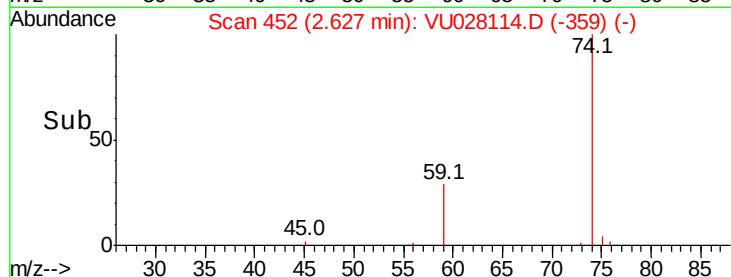
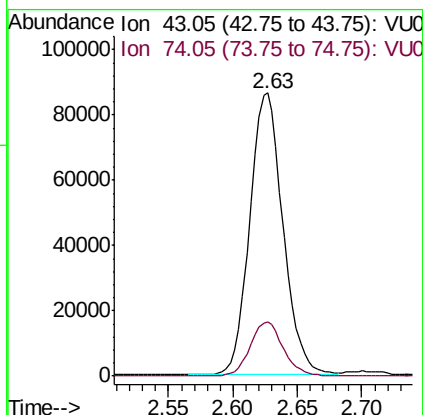
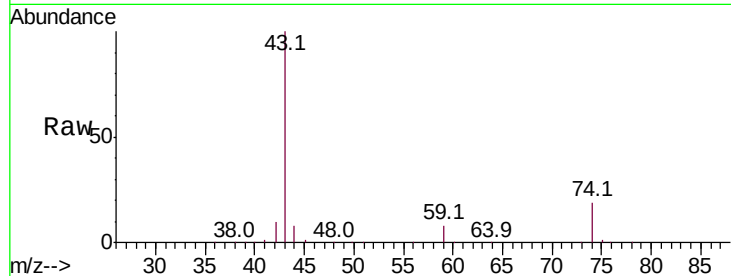
Time-->



#15
Methvl Acetate
Concen: 20.423 ug/L
RT: 2.63 min Scan# 452
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

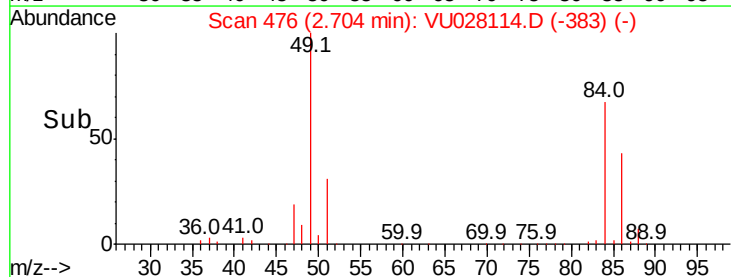
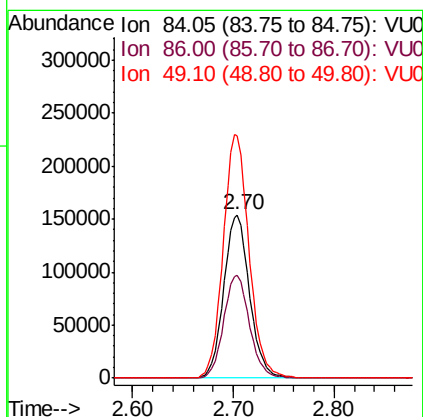
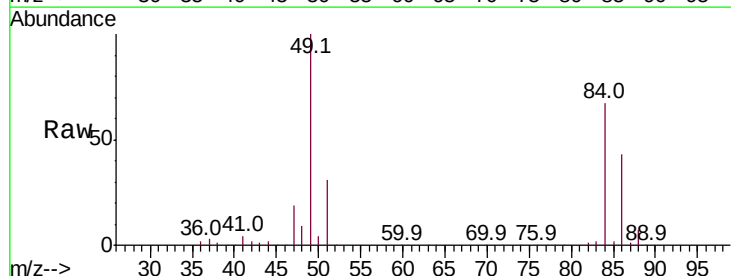
Instrument :
MSVOA_U
ClientSampleId :
VSTD02048

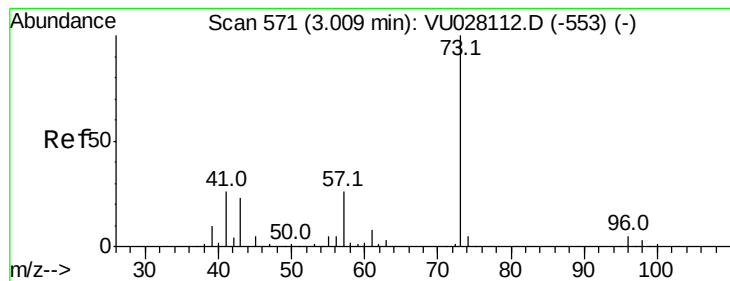
Tot Ion: 43 Resp: 155300
Ion Ratio Lower Upper
43 100
74 19.1 14.9 22.3



#16
Methylene chloride
Concen: 19.954 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Tgt Ion: 84 Resp: 274980
Ion Ratio Lower Upper
84 100
86 63.3 44.6 82.8
49 149.0 102.5 190.3



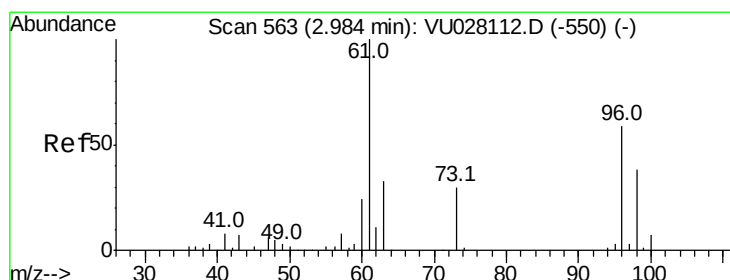
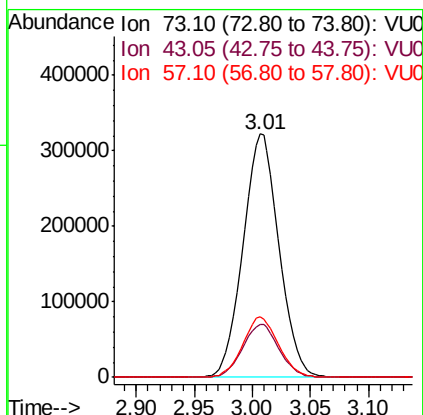
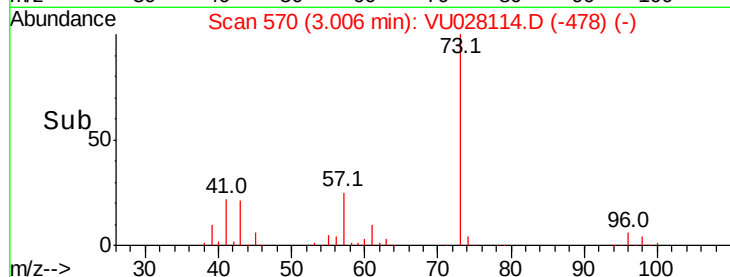
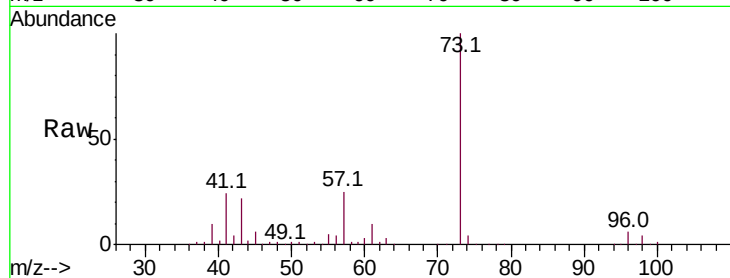


#17

Methvl tert-butyl Ether
 Concen: 21.305 ug/L
 RT: 3.01 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

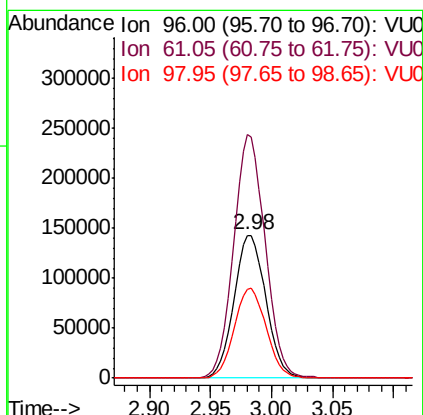
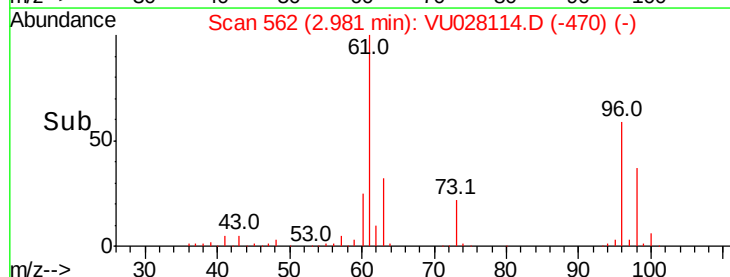
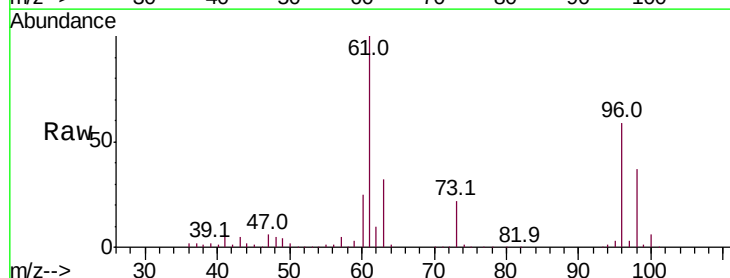
Tot Ion: 73 Resp: 694742
 Ion Ratio Lower Upper
 73 100
 43 21.9 18.1 27.1
 57 24.7 20.0 30.0

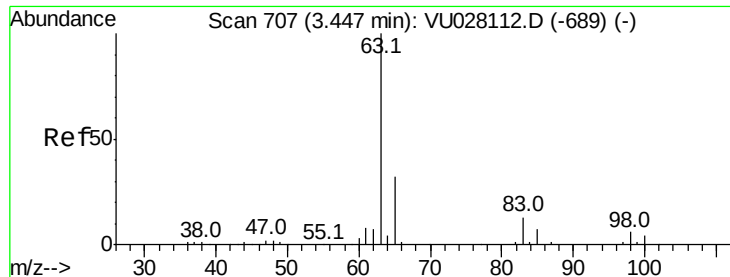


#18

trans-1,2-Dichloroethene
 Concen: 20.891 ug/L
 RT: 2.98 min Scan# 562
 Delta R.T. -0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion: 96 Resp: 259061
 Ion Ratio Lower Upper
 96 100
 61 170.1 118.5 220.1
 98 62.3 44.9 83.5

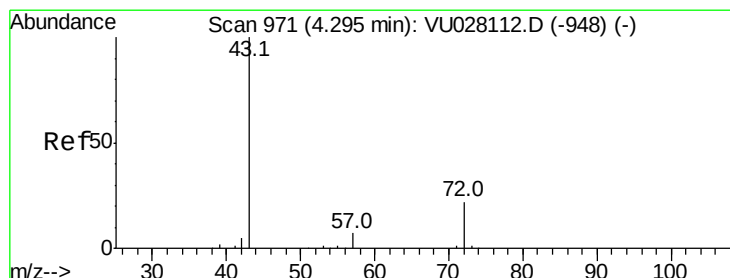
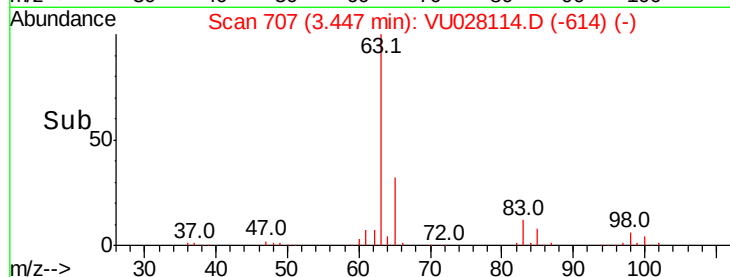
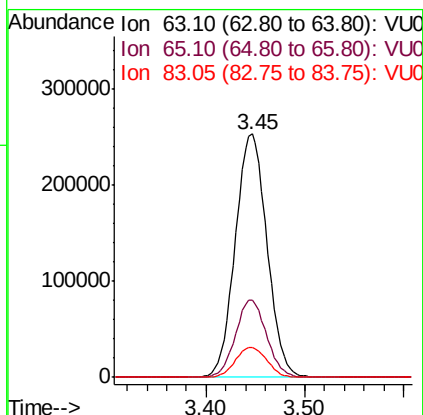
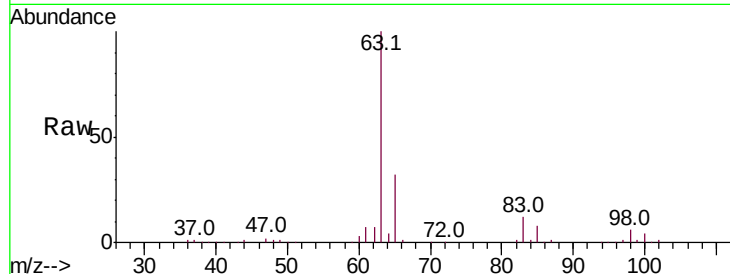




#19
 1,1-Dichloroethane
 Concen: 21.524 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

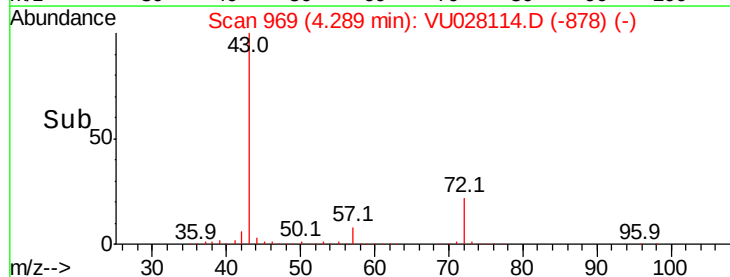
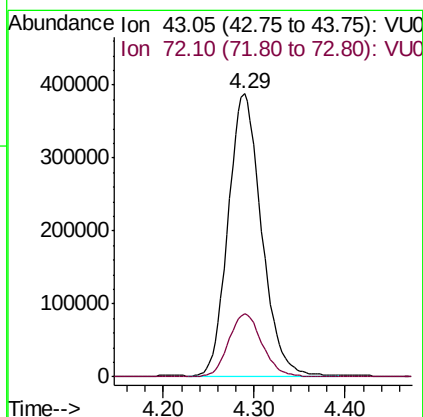
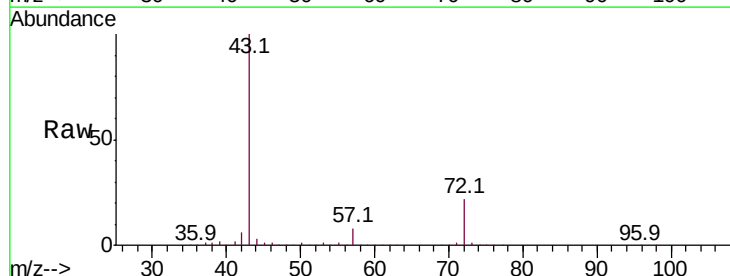
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

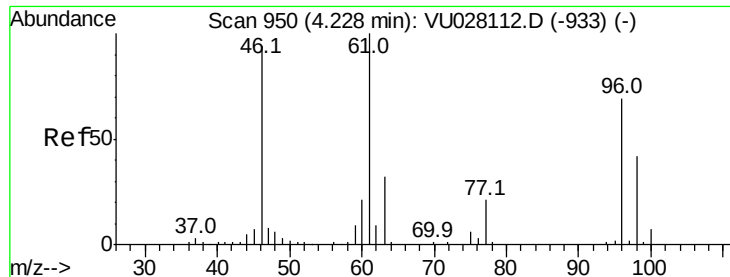
Tot Ion: 63 Resp: 561322
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.2 41.2
 83 12.4 8.9 16.5



#21
 2-Butanone
 Concen: 219.222 ug/L
 RT: 4.29 min Scan# 969
 Delta R.T. -0.01 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion: 43 Resp: 983738
 Ion Ratio Lower Upper
 43 100
 72 22.9 11.0 33.0



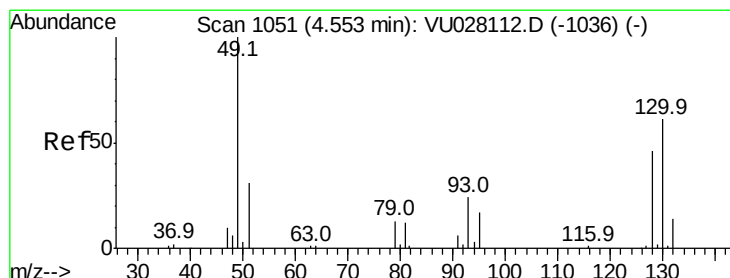
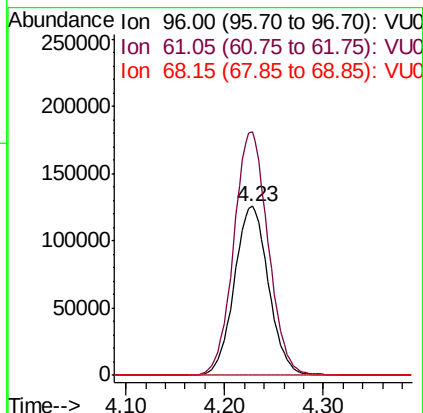
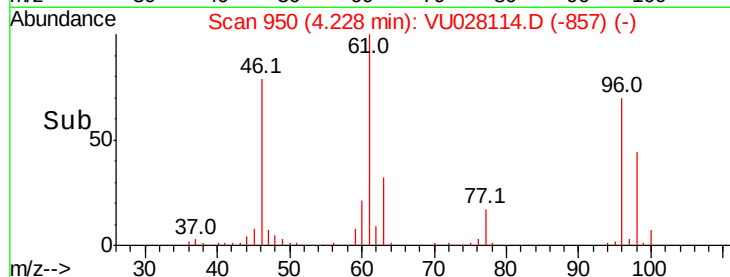
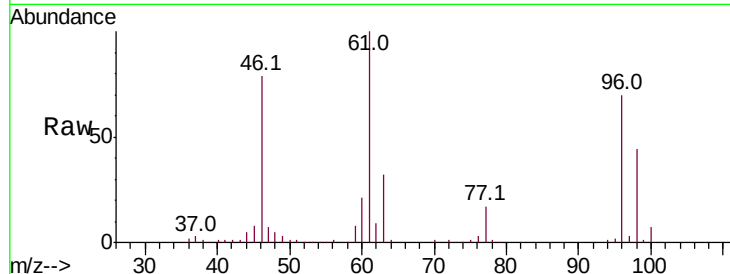


#22

cis-1,2-Dichloroethene
Concen: 22.090 ug/L
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD02048

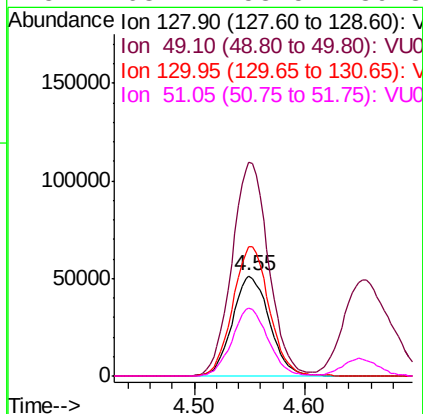
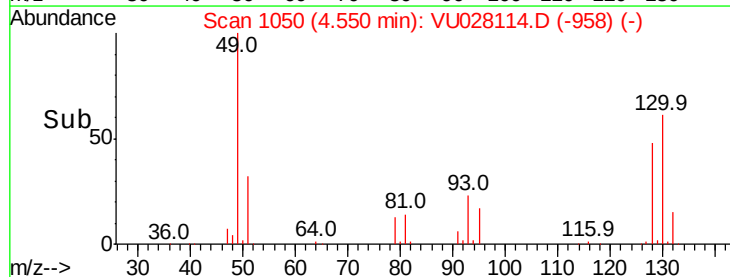
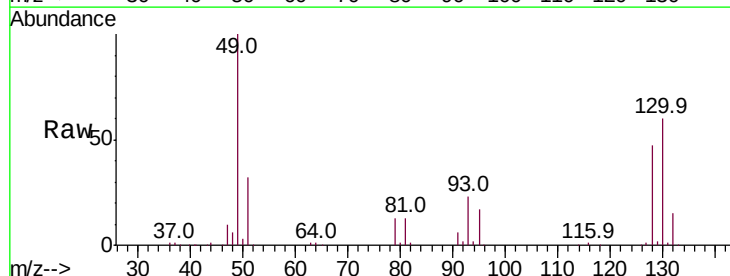
Tot Ion: 96 Resp: 302021
Ion Ratio Lower Upper
96 100
61 143.8 101.8 189.0
68 0.0 0.0 0.0

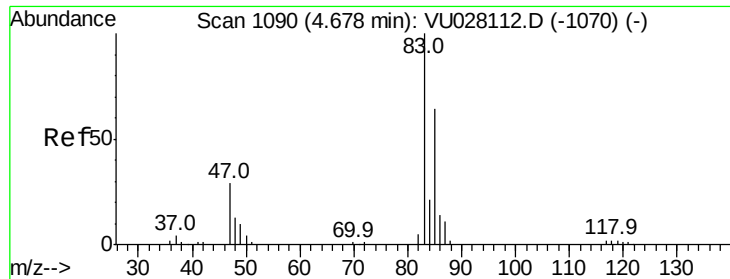


#23

Bromochloromethane
Concen: 22.040 ug/L
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Tgt Ion: 128 Resp: 119073
Ion Ratio Lower Upper
128 100
49 213.1 152.2 282.6
130 128.9 93.2 173.0
51 68.1 53.5 80.3

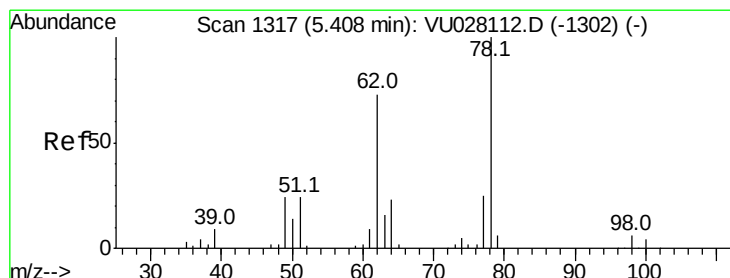
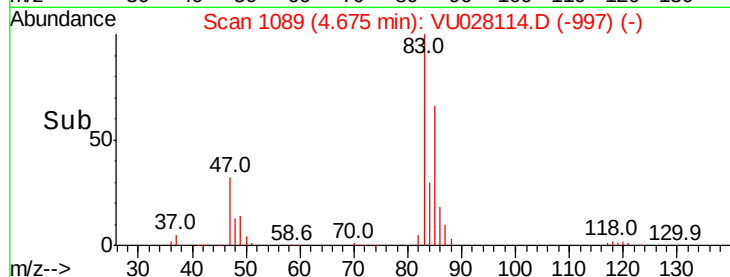
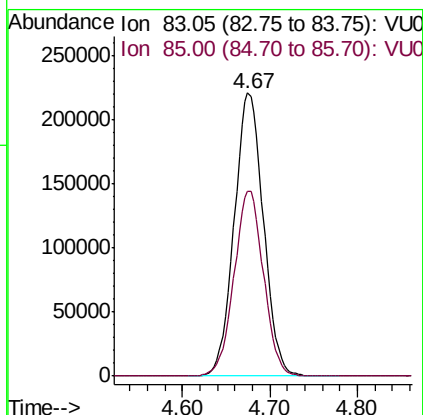
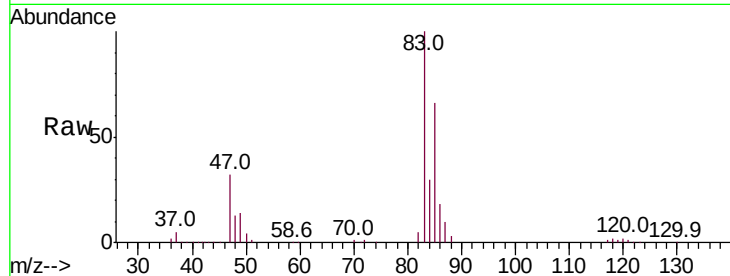




#25
Chloroform
Concen: 21.886 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

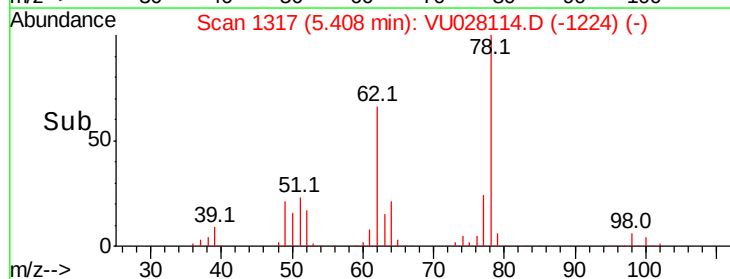
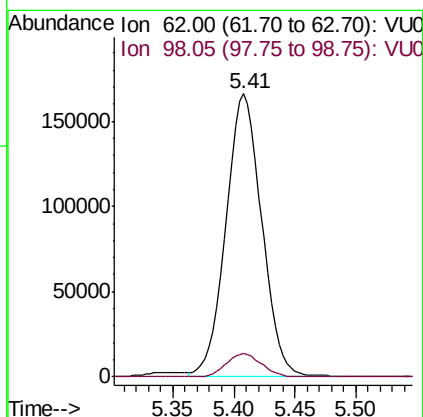
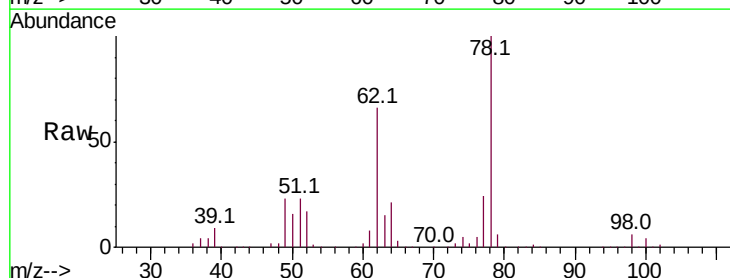
Instrument :
MSVOA_U
ClientSampleId :
VSTD02048

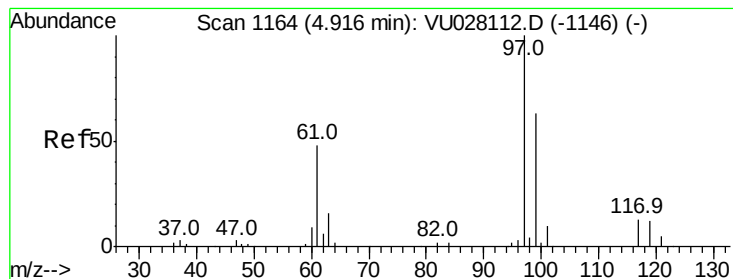
Tot Ion: 83 Resp: 511966
Ion Ratio Lower Upper
83 100
85 65.5 45.0 83.6



#27
1,2-Dichloroethane
Concen: 22.070 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Tgt Ion: 62 Resp: 339344
Ion Ratio Lower Upper
62 100
98 8.4 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 22.007 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD02048

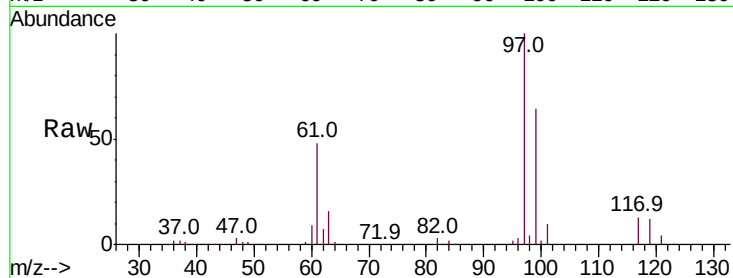
Tot Ion: 97 Resp: 417109

Ion Ratio Lower Upper

97 100

99 64.6 51.2 76.8

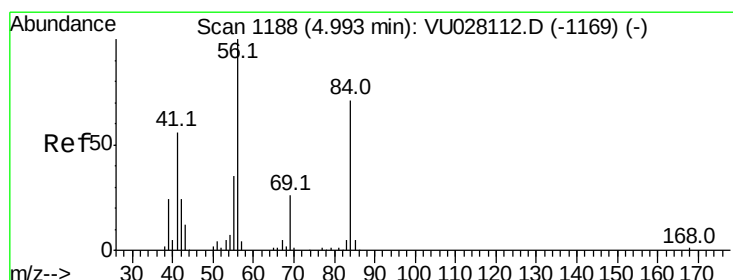
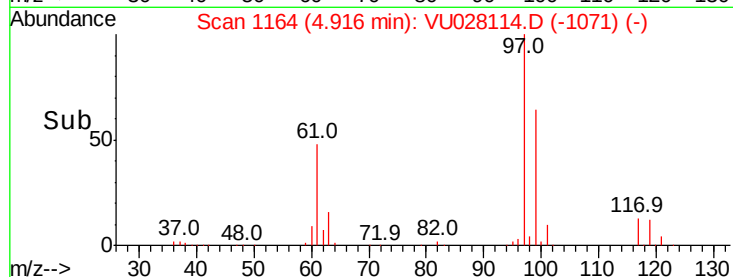
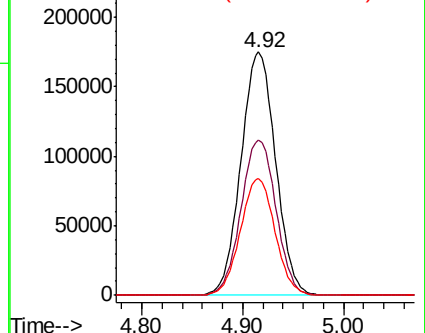
61 48.0 39.4 59.2



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: 21.820 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

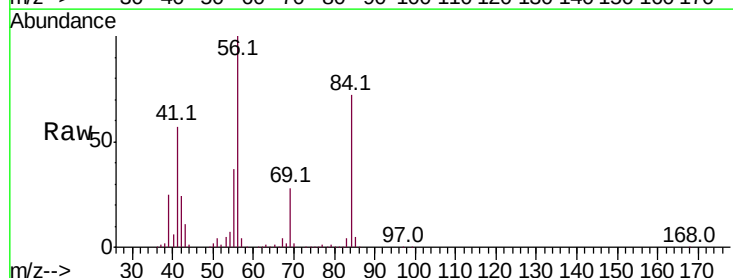
Tgt Ion: 56 Resp: 579915

Ion Ratio Lower Upper

56 100

69 27.7 22.6 33.8

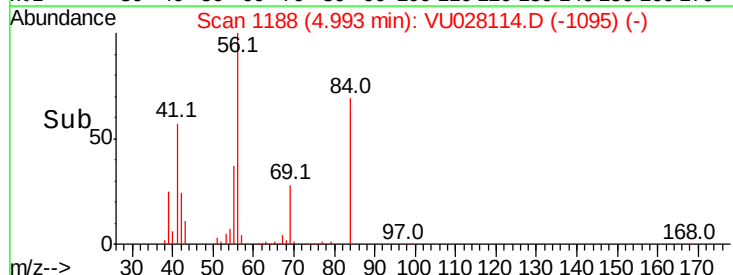
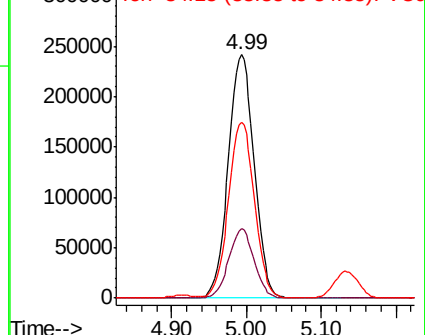
84 72.7 57.7 86.5

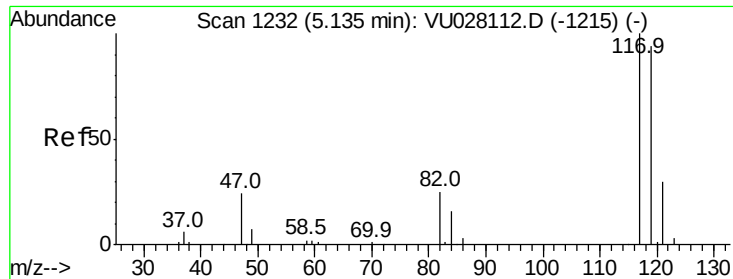


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

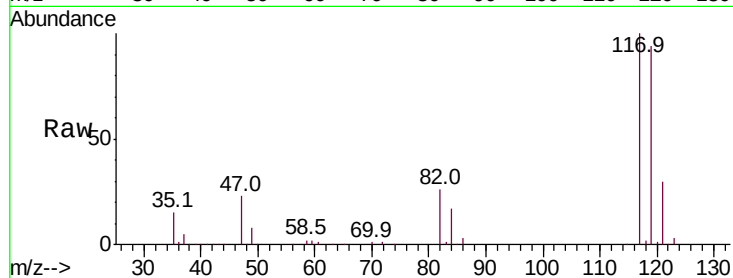




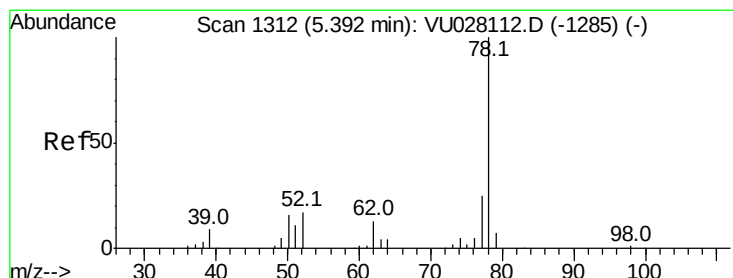
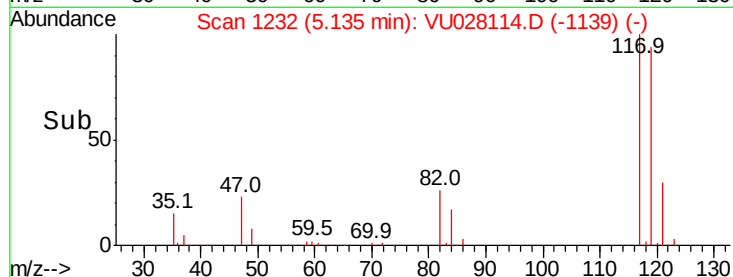
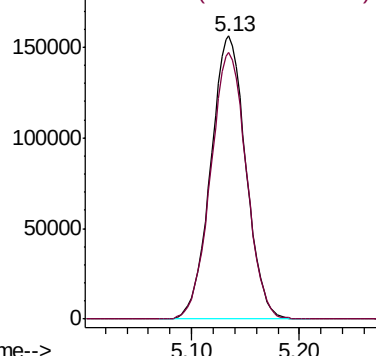
#31
Carbon tetrachloride
Concen: 22.442 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD02048

Tot Ion:117 Resp: 353005
Ion Ratio Lower Upper
117 100
119 95.8 75.7 113.5

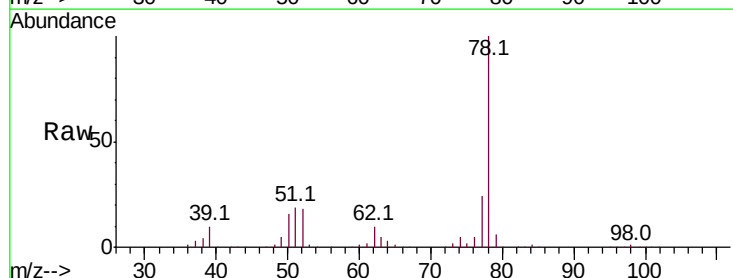


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

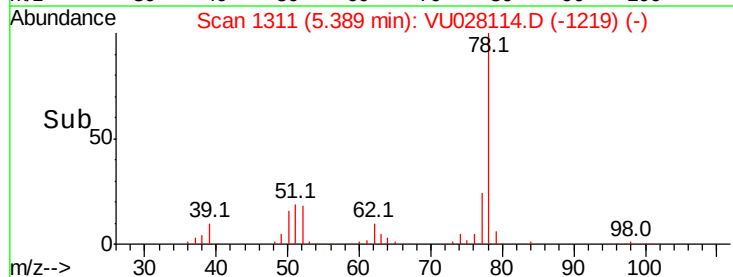
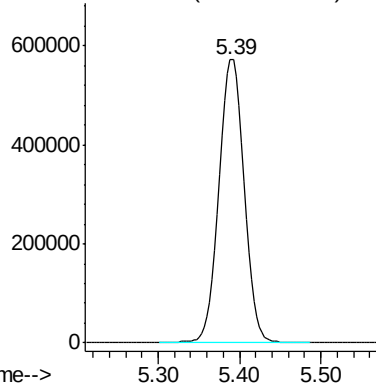


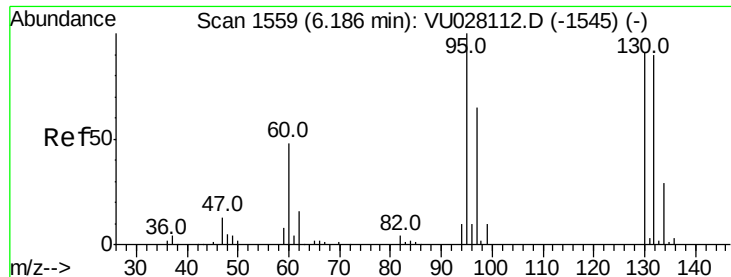
#33
Benzene
Concen: 21.529 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Tgt Ion: 78 Resp: 1214512



Abundance Ion 78.10 (77.80 to 78.80): VU0

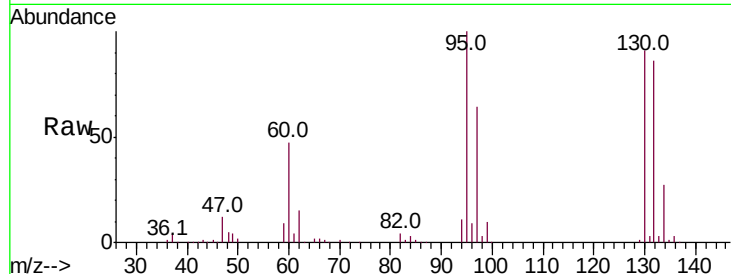




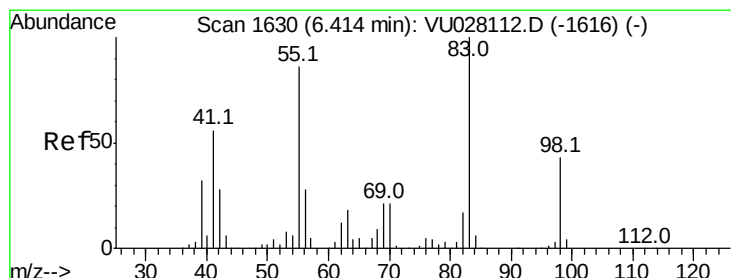
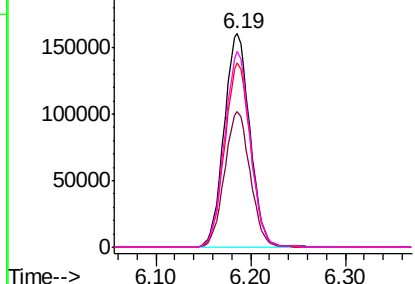
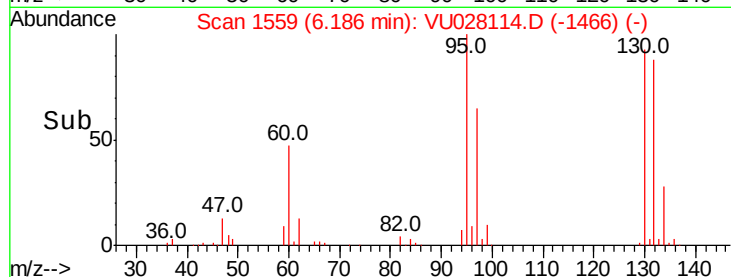
#34
 Trichloroethene
 Concen: 21.763 ug/L
 RT: 6.19 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD02048

Tot Ion: 95 Resp: 303439
 Ion Ratio Lower Upper
 95 100
 97 63.7 45.3 84.1
 132 86.2 63.0 117.0
 130 91.4 63.6 118.2

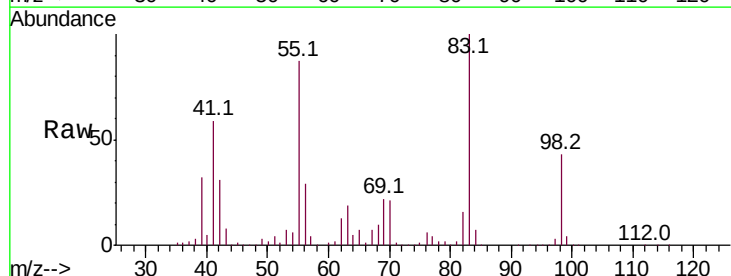


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

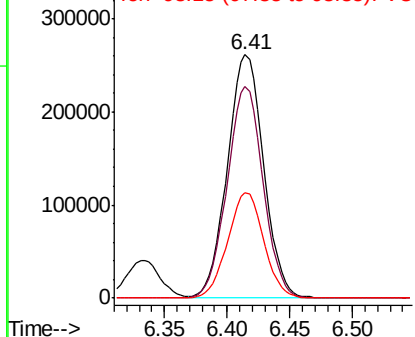
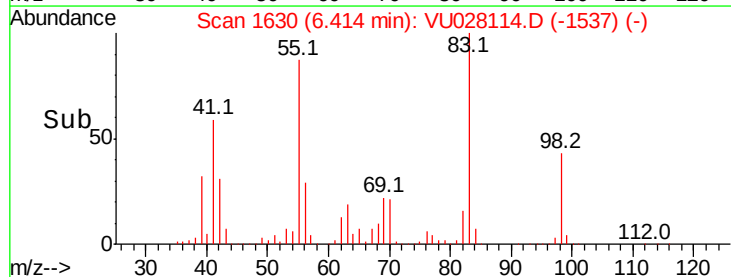


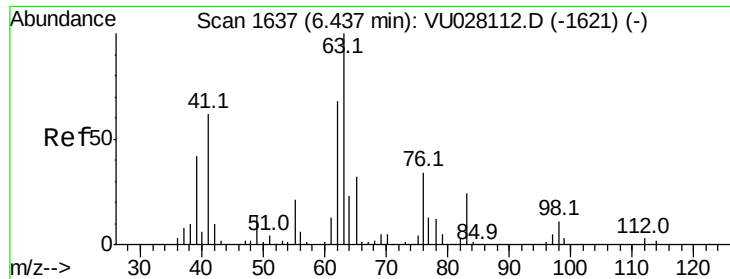
#35
 Methylcyclohexane
 Concen: 21.820 ug/L
 RT: 6.41 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion: 83 Resp: 523012
 Ion Ratio Lower Upper
 83 100
 55 86.6 69.0 103.4
 98 43.2 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

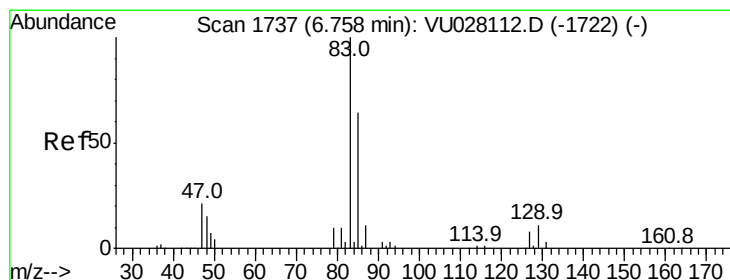
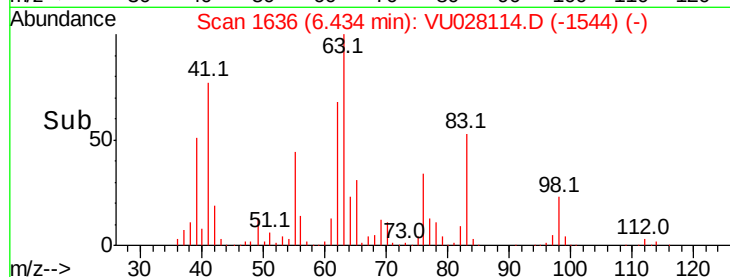
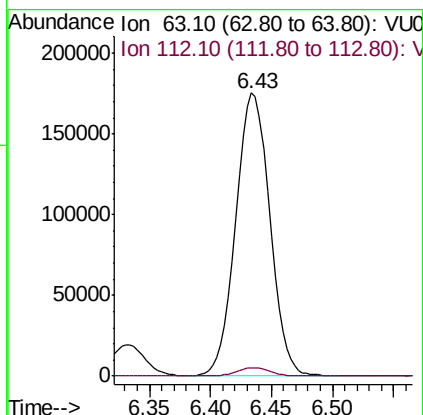
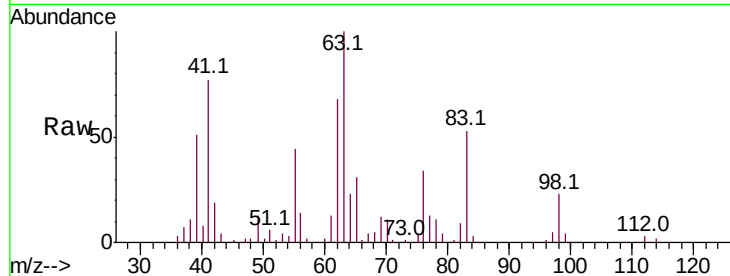




#37
 1,2-Dichloropropane
 Concen: 21.702 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

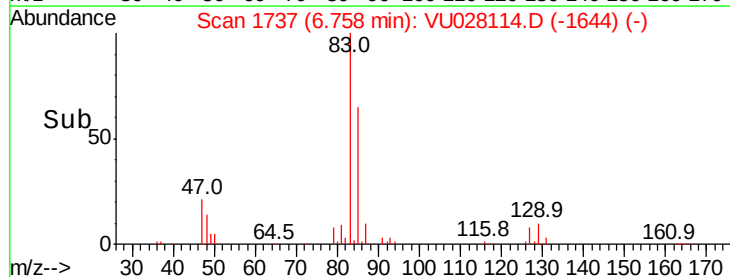
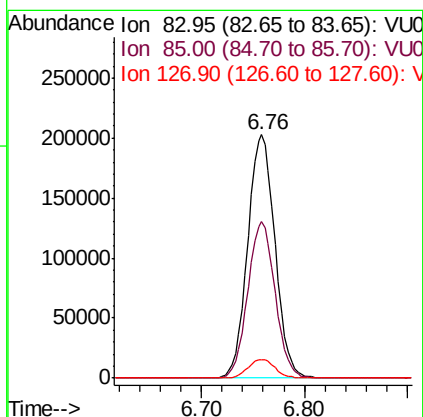
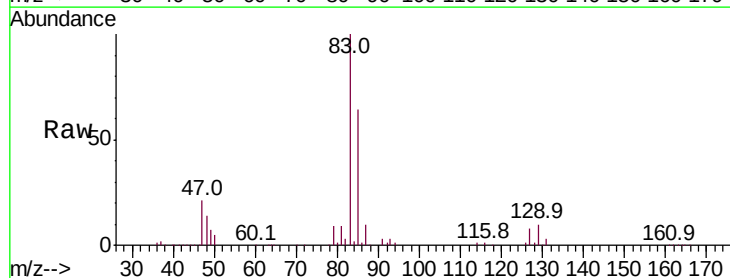
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

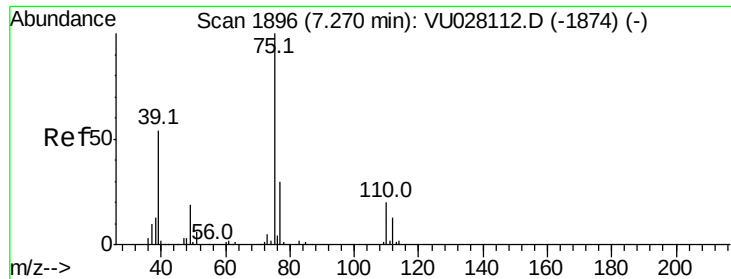
Tot Ion: 63 Resp: 338566
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.2 3.4



#38
 Bromodichloromethane
 Concen: 22.381 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion: 83 Resp: 371512
 Ion Ratio Lower Upper
 83 100
 85 64.2 44.5 82.7
 127 7.8 6.8 10.2

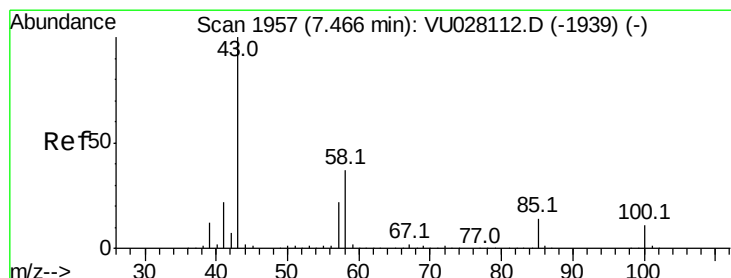
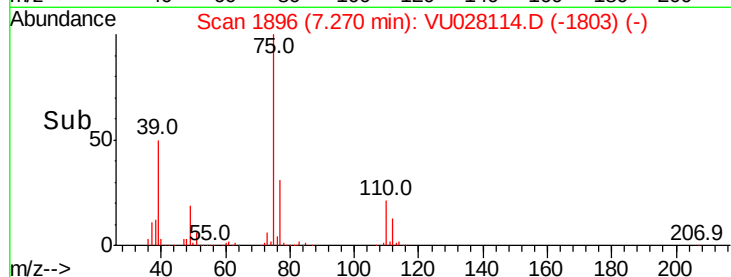
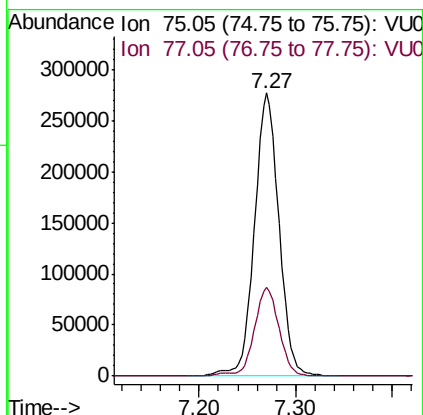
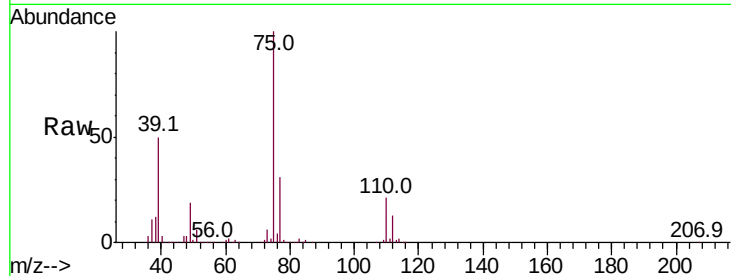




#39
 cis-1,3-Dichloropropene
 Concen: 23.100 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

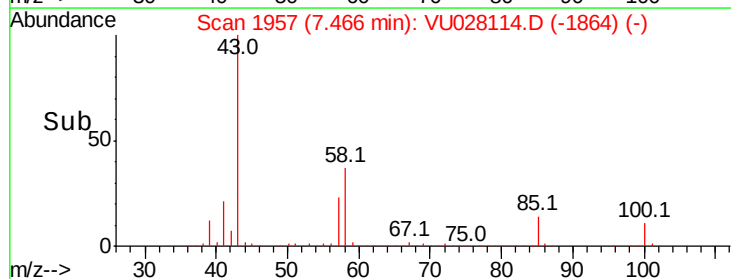
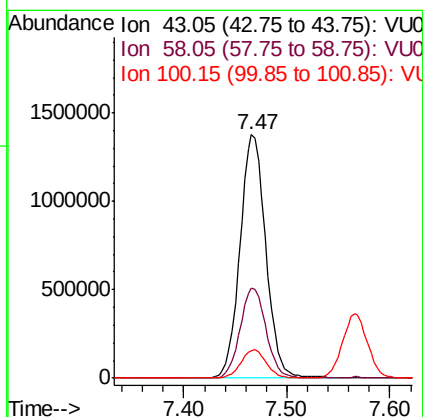
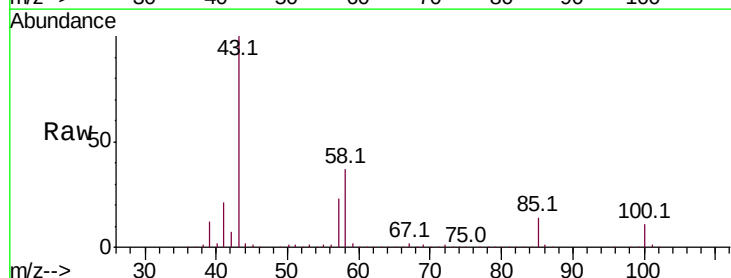
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

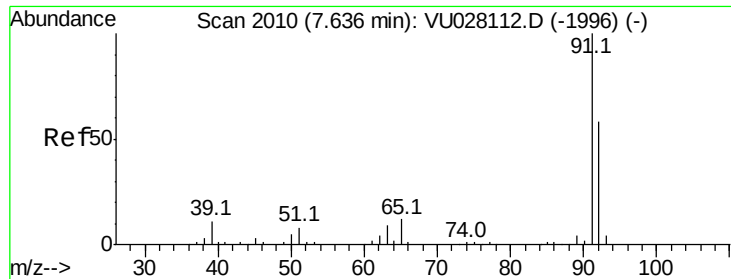
Tot Ion: 75 Resp: 487245
 Ion Ratio Lower Upper
 75 100
 77 31.4 20.9 38.9



#40
 4-Methyl-2-pentanone
 Concen: 223.061 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion: 43 Resp: 2396406
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.9 44.9
 100 11.4 9.1 13.7





#42

Toluene

Concen: 21.894 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

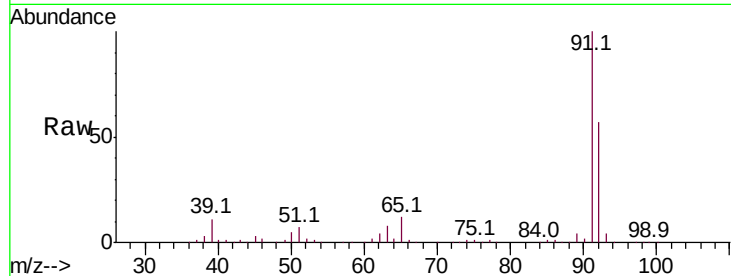
VSTD02048

Tot Ion: 91 Resp: 1273557

Ion Ratio Lower Upper

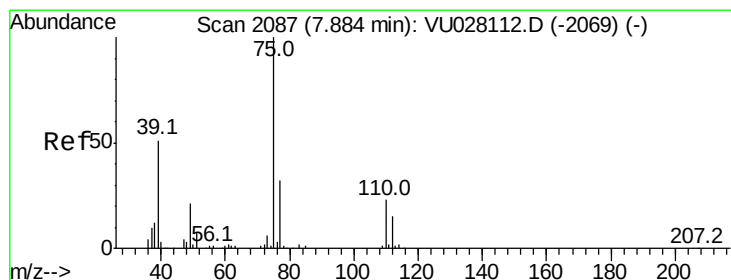
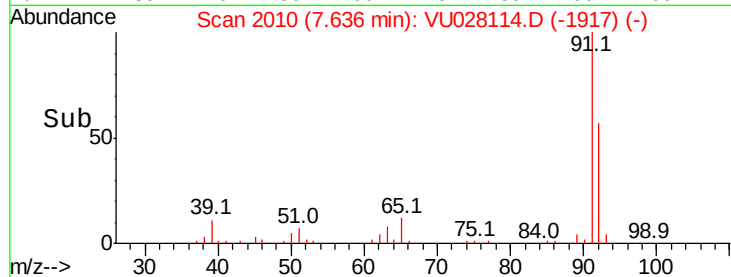
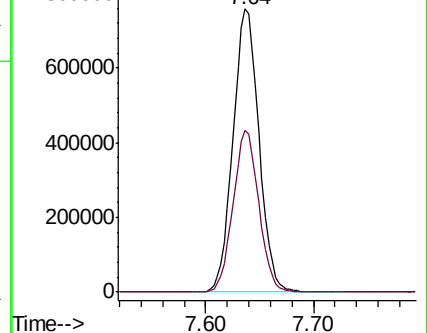
91 100

92 57.0 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: 22.891 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU028114.D

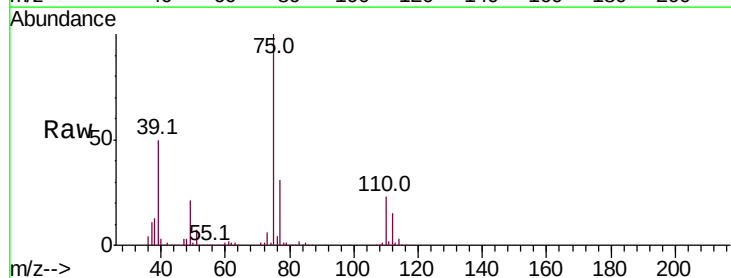
Acq: 14 Nov 2018 11:39

Tgt Ion: 75 Resp: 378348

Ion Ratio Lower Upper

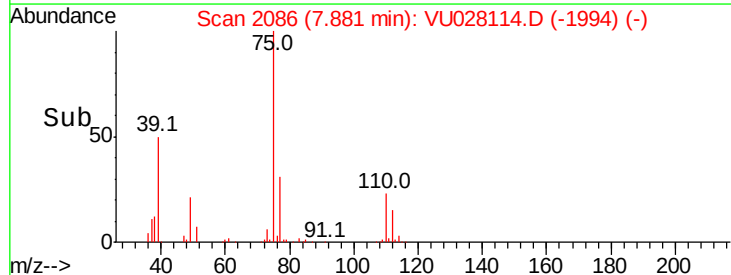
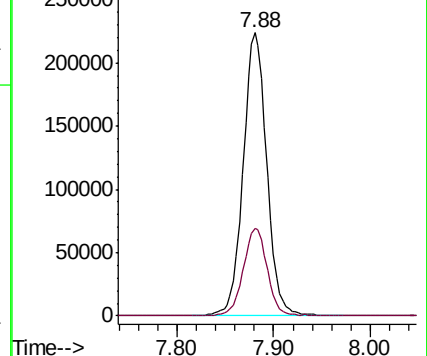
75 100

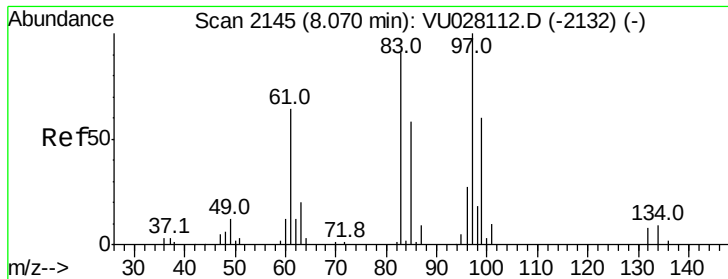
77 30.8 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

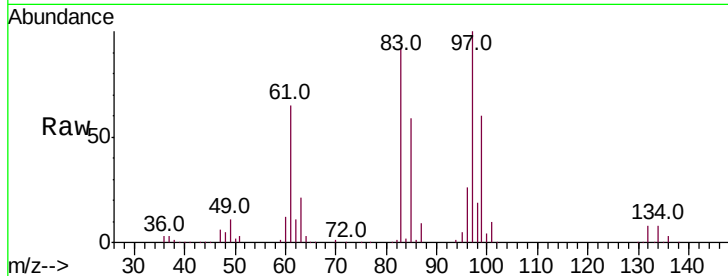




#45
1,1,2-Trichloroethane
Concen: 21.840 ug/L
RT: 8.07 min Scan# 2144
Delta R.T. -0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD02048

Tot Ion:	97	Resp:	205705
Ion	Ratio	Lower	Upper
97	100		
99	60.2	42.1	78.1
83	92.0	63.7	118.3
85	58.6	40.6	75.4

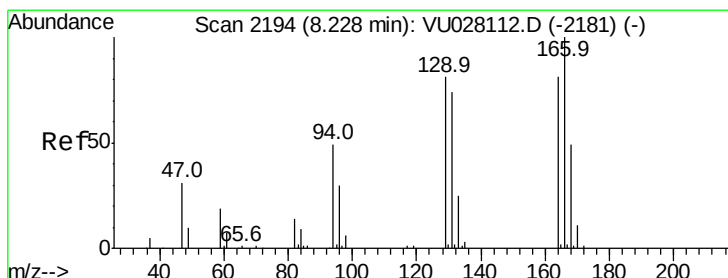
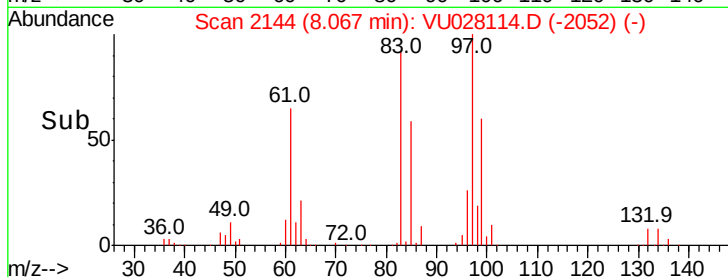
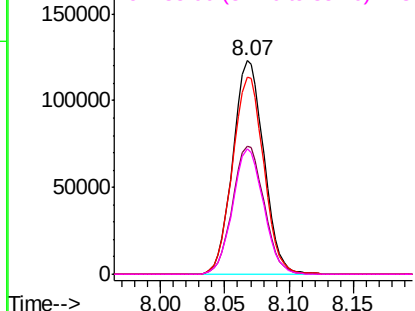


Abundance Ion 96.95 (96.65 to 97.65): VU028112.D (-2132) (-)

Ion 99.05 (98.75 to 99.75): VU028112.D (-2132) (-)

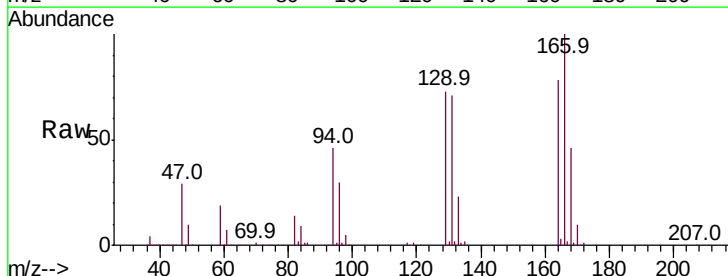
Ion 82.95 (82.65 to 83.65): VU028112.D (-2132) (-)

Ion 85.00 (84.70 to 85.70): VU028112.D (-2132) (-)



#47
Tetrachloroethene
Concen: 19.079 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Tgt Ion:	164	Resp:	216274
Ion	Ratio	Lower	Upper
164	100		
129	94.0	69.7	129.4
131	91.3	64.0	118.8
166	129.0	86.4	160.4

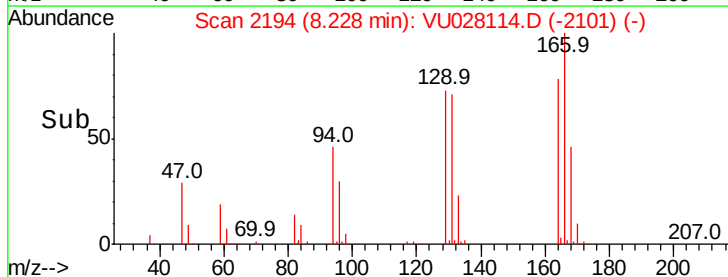
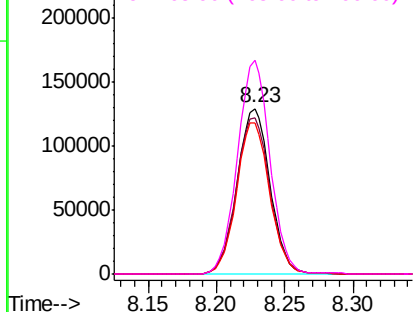


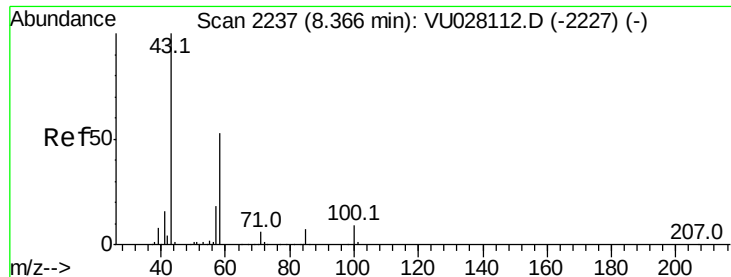
Abundance Ion 163.90 (163.60 to 164.60): VU028112.D (-2181) (-)

Ion 128.95 (128.65 to 129.65): VU028112.D (-2181) (-)

Ion 130.95 (130.65 to 131.65): VU028112.D (-2181) (-)

Ion 165.90 (165.60 to 166.60): VU028112.D (-2181) (-)



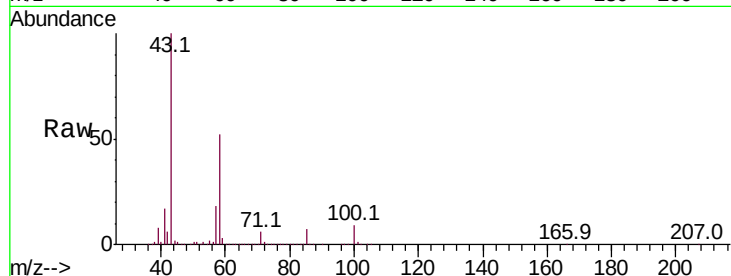


#48
2-Hexanone
Concen: 225.142 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD02048

Tot Ion: 43 Resp: 1721046

Ion	Ratio	Lower	Upper
43	100		
58	52.1	41.7	62.5
57	17.6	14.0	21.0
100	8.7	7.2	10.8

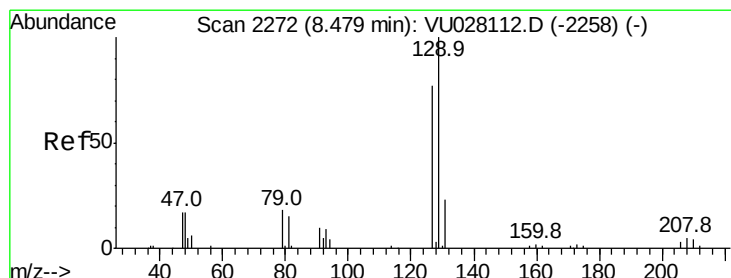
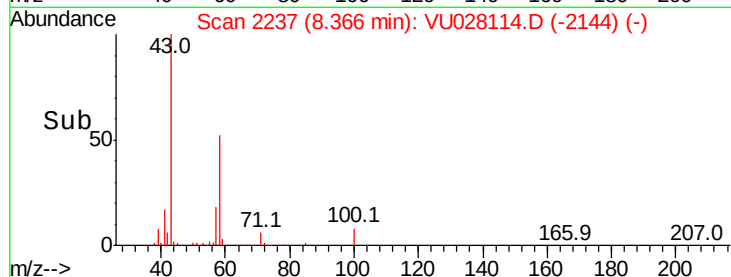
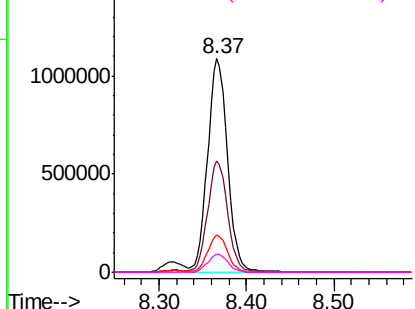


Abundance Ion 43.05 (42.75 to 43.75): VU028114.D (-2144) (-)

Ion 58.05 (57.75 to 58.75): VU028114.D (-2144) (-)

Ion 57.20 (56.90 to 57.90): VU028114.D (-2144) (-)

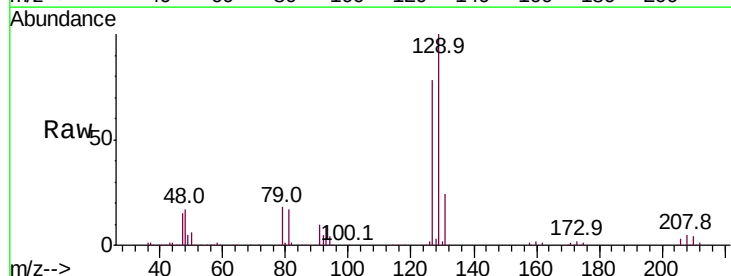
Ion 100.15 (99.85 to 100.85): VU028114.D (-2144) (-)



#49
Dibromochloromethane
Concen: 23.275 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU028114.D
Acq: 14 Nov 2018 11:39

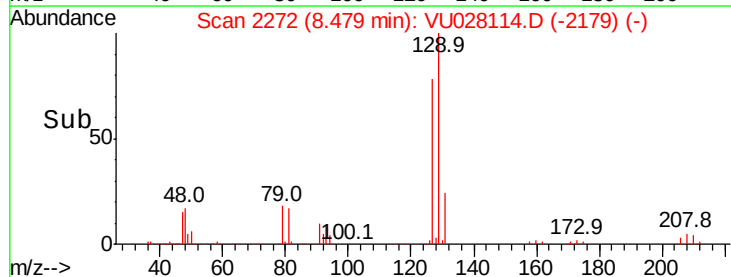
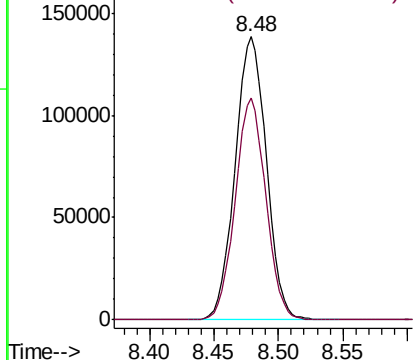
Tgt Ion: 129 Resp: 233379

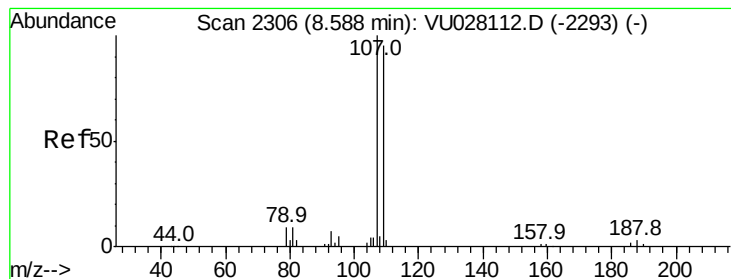
Ion	Ratio	Lower	Upper
129	100		
127	78.2	54.1	100.5



Abundance Ion 128.95 (128.65 to 129.65): VU028114.D (-2179) (-)

Ion 126.90 (126.60 to 127.60): VU028114.D (-2179) (-)





#50

1,2-Dibromoethane

Concen: 22.336 ug/L

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD02048

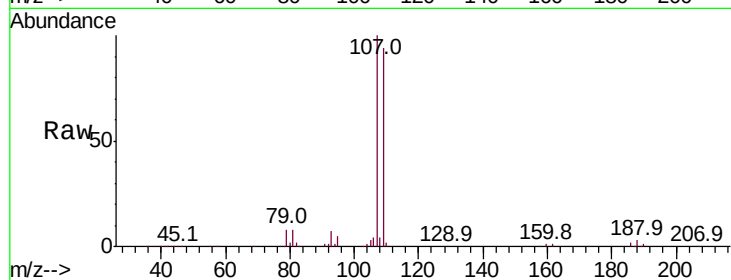
Tot Ion:107 Resp: 198072

Ion Ratio Lower Upper

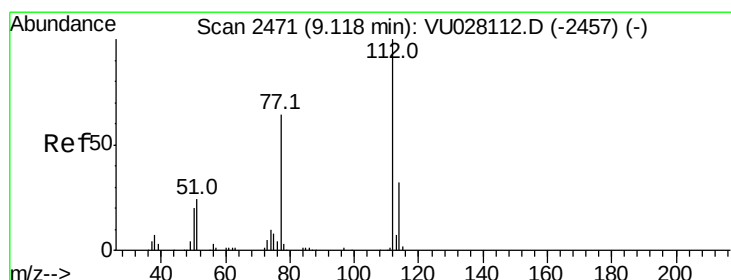
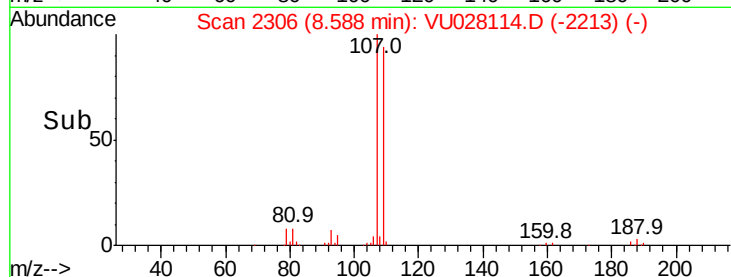
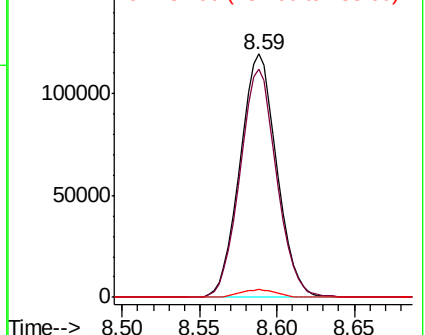
107 100

109 93.9 66.6 123.8

188 3.1 2.5 3.7



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 21.558 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

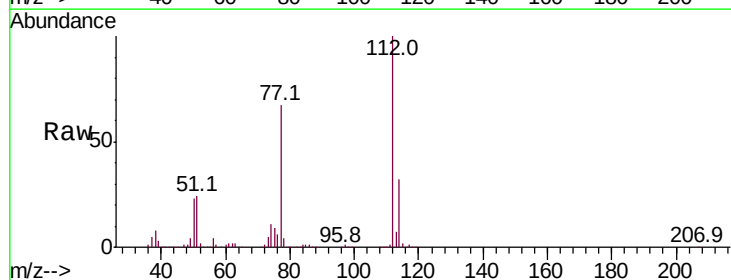
Tgt Ion:112 Resp: 733251

Ion Ratio Lower Upper

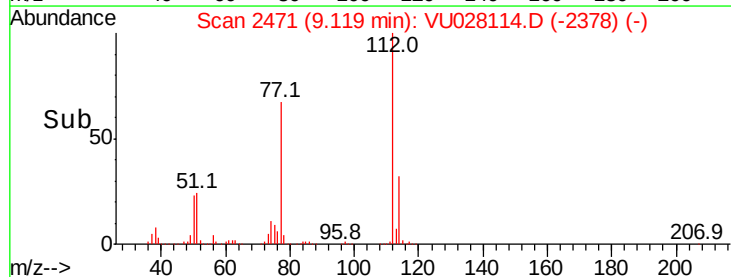
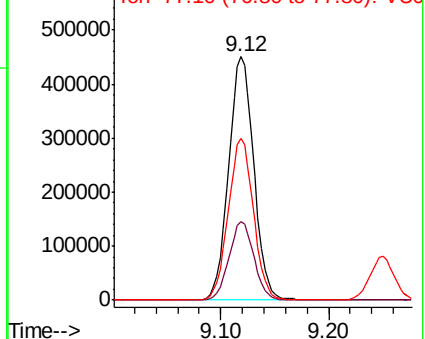
112 100

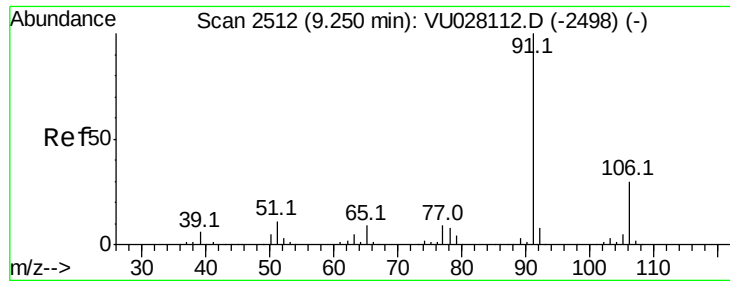
114 32.3 22.5 41.7

77 66.6 51.3 76.9



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 22.446 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

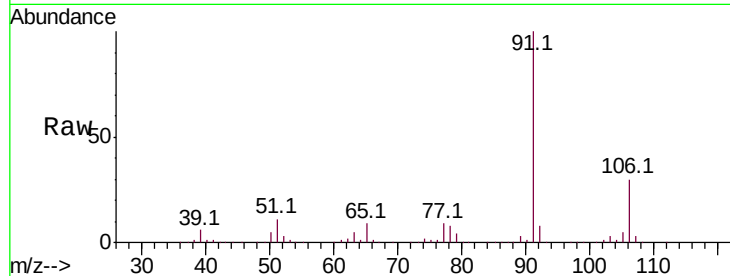
VSTD02048

Tot Ion: 91 Resp: 1425093

Ion Ratio Lower Upper

91 100

106 29.7 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU028114.D (-2498) (-)

Ion 106.15 (105.85 to 106.85): VU028114.D (-2498) (-)

9.25

800000

600000

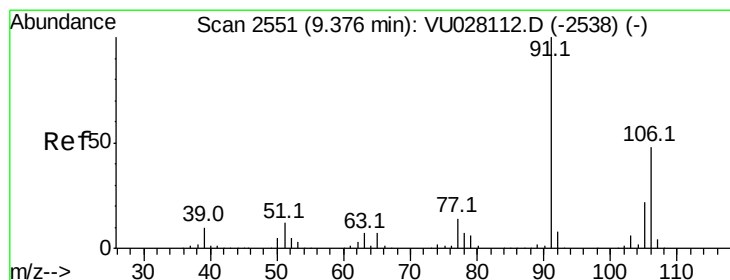
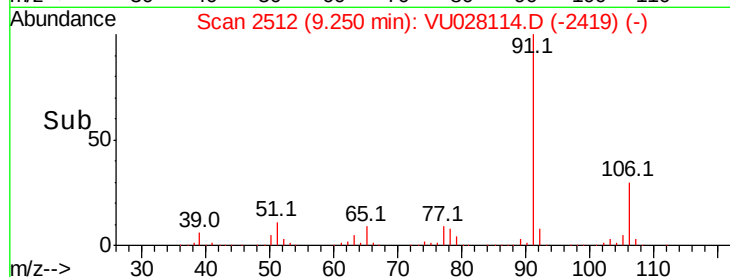
400000

200000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-xylene

Concen: 22.134 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028114.D

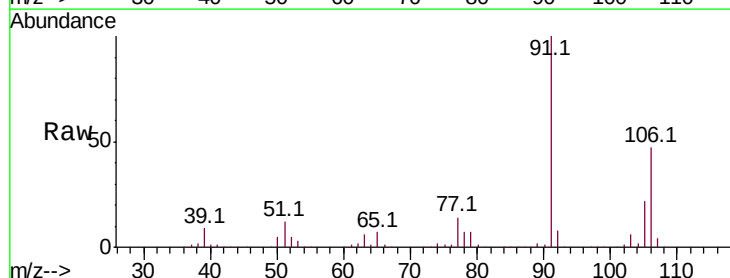
Acq: 14 Nov 2018 11:39

Tgt Ion: 106 Resp: 511992

Ion Ratio Lower Upper

106 100

91 214.4 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028114.D (-2538) (-)

Ion 91.15 (90.85 to 91.85): VU028114.D (-2538) (-)

9.38

800000

600000

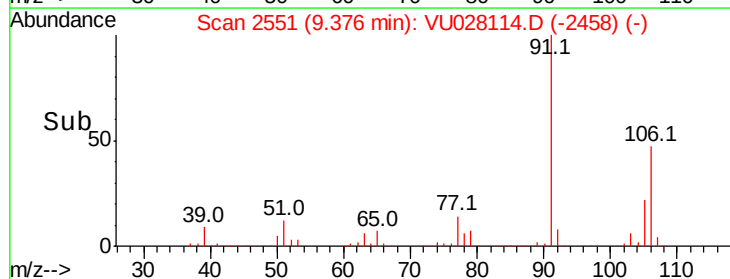
400000

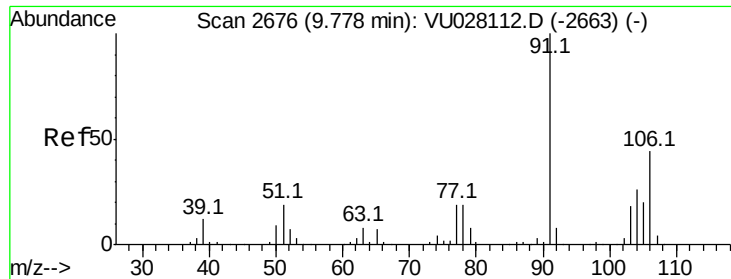
200000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 22.671 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

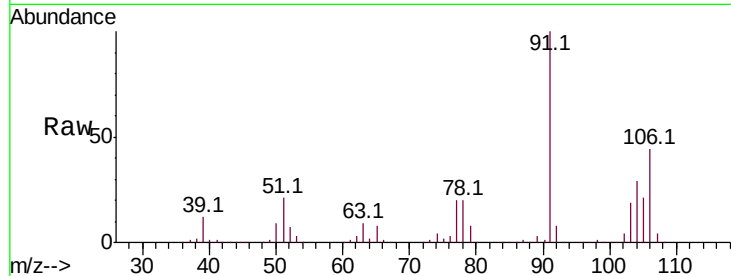
VSTD02048

Tot Ion:106 Resp: 504884

Ion Ratio Lower Upper

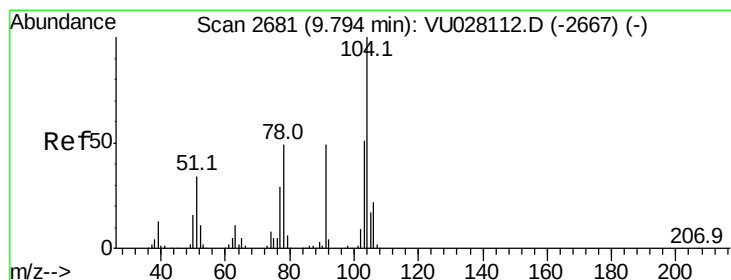
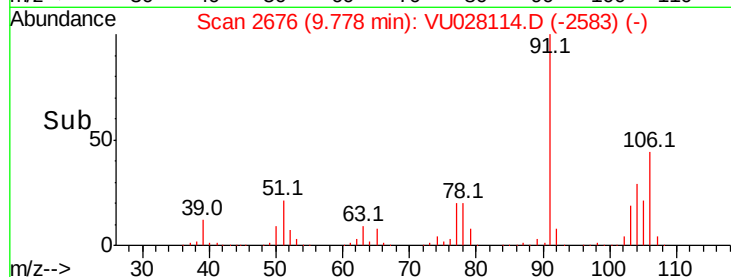
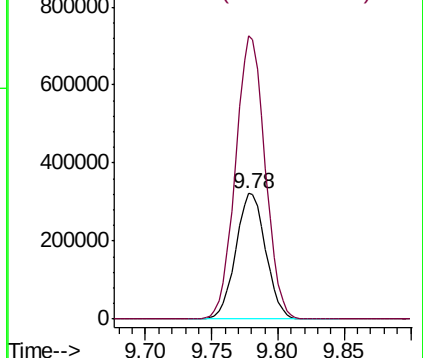
106 100

91 225.7 158.7 294.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 23.115 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VU028114.D

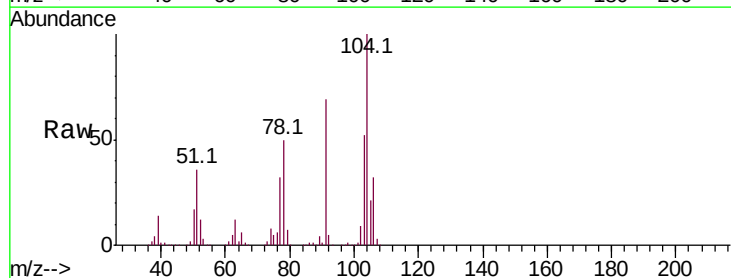
Acq: 14 Nov 2018 11:39

Tgt Ion:104 Resp: 870511

Ion Ratio Lower Upper

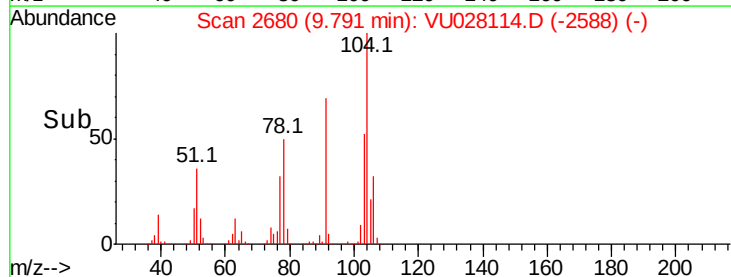
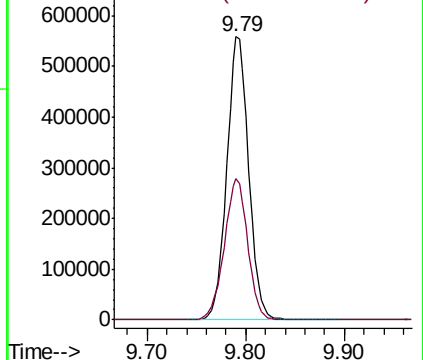
104 100

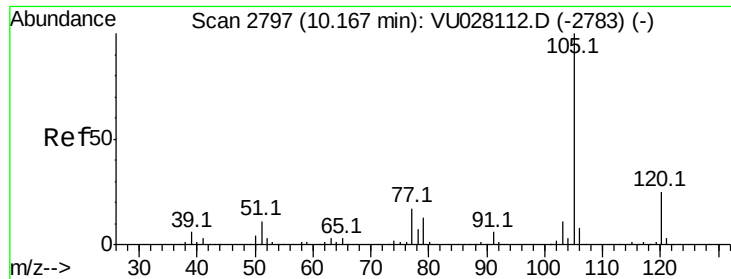
78 49.8 34.5 64.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 22.432 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD02048

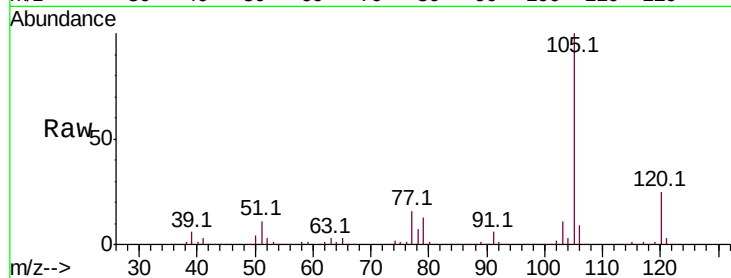
Tot Ion:105 Resp: 1351251

Ion Ratio Lower Upper

105 100

120 25.1 20.5 30.7

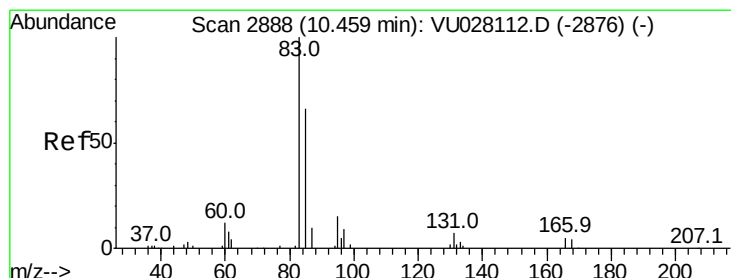
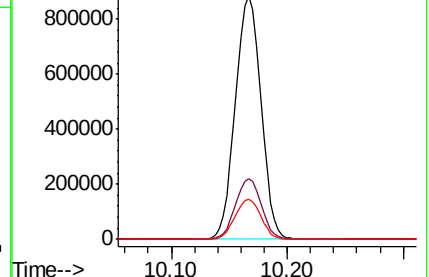
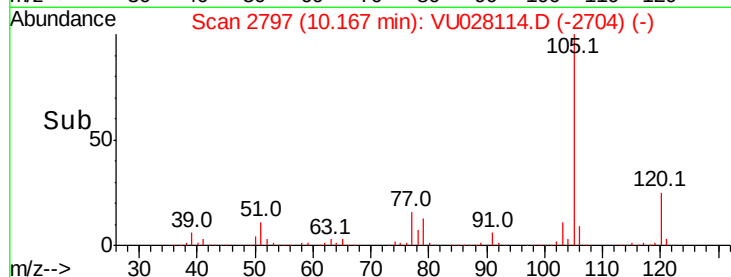
77 16.6 13.3 19.9



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: 22.258 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

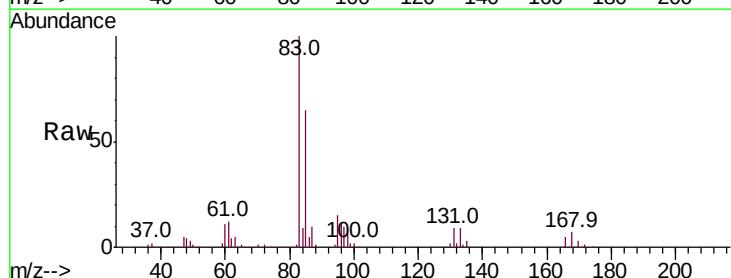
Tgt Ion: 83 Resp: 270221

Ion Ratio Lower Upper

83 100

85 65.0 46.7 86.7

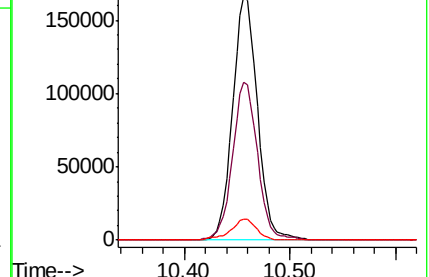
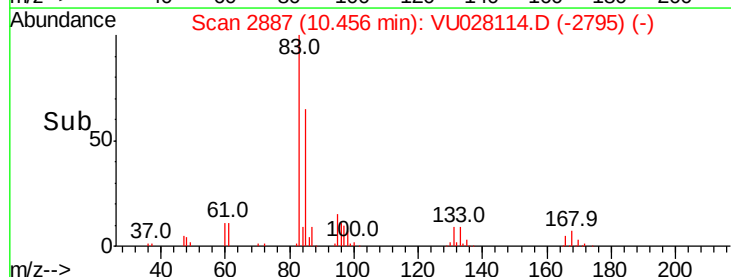
131 8.6 5.9 8.9

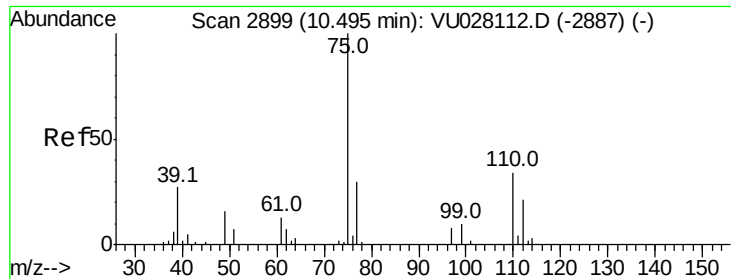


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 21.905 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

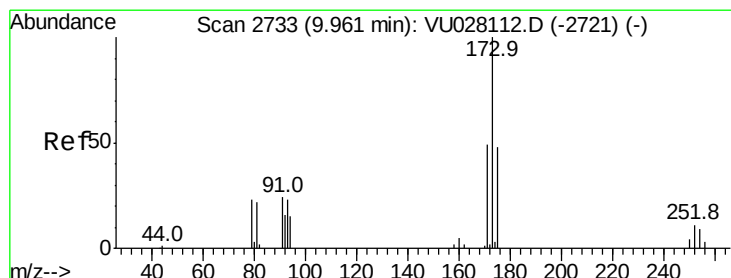
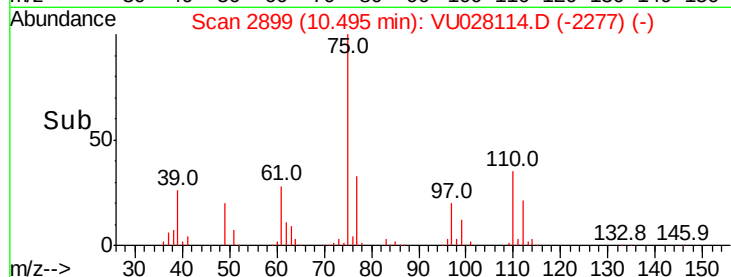
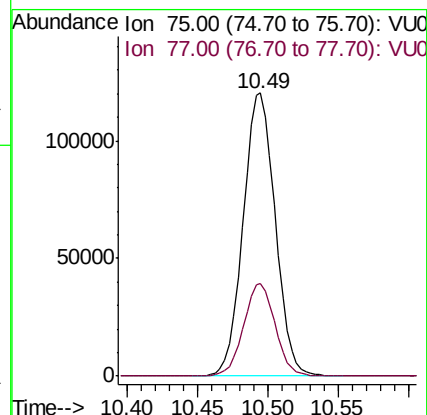
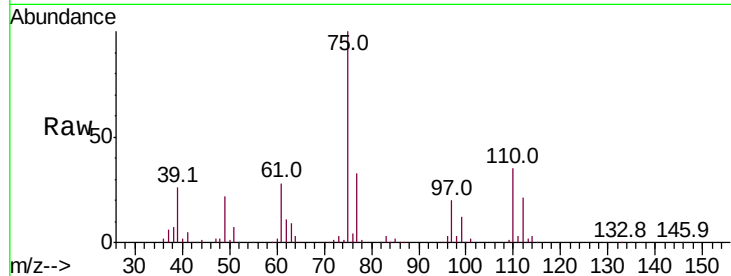
VSTD02048

Tot Ion: 75 Resp: 191945

Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.0



#61

Bromoform

Concen: 22.654 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

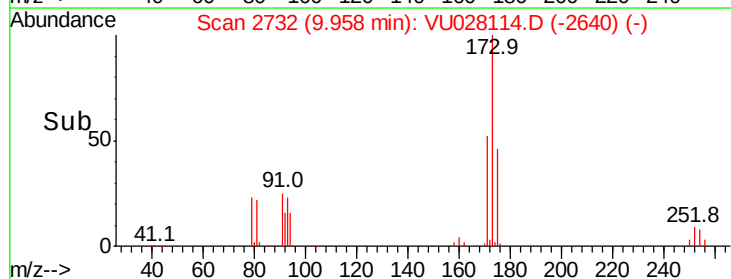
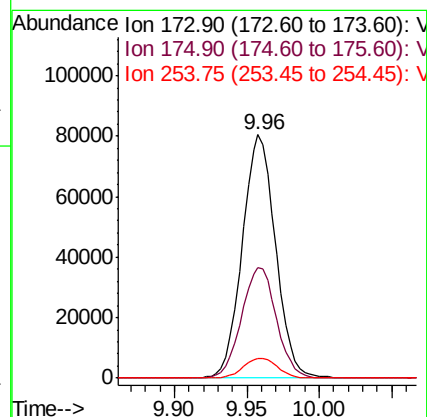
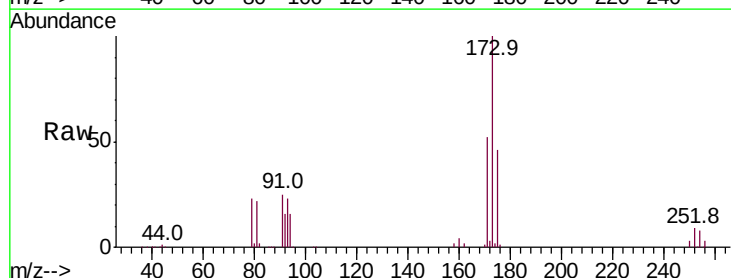
Tgt Ion:173 Resp: 128122

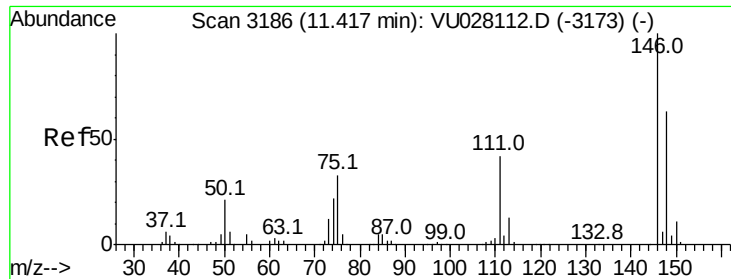
Ion Ratio Lower Upper

173 100

175 47.6 38.2 57.2

254 8.5 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 21.982 ug/L

RT: 11.41 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD02048

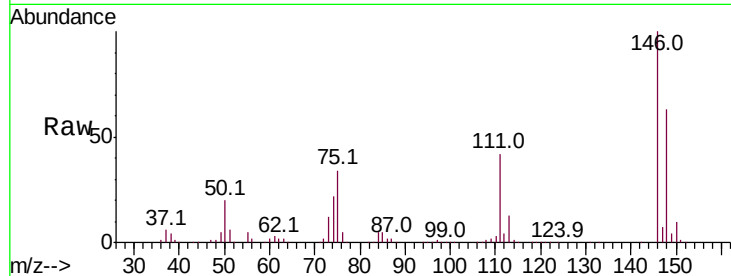
Tot Ion:146 Resp: 581368

Ion Ratio Lower Upper

146 100

111 42.0 29.3 54.3

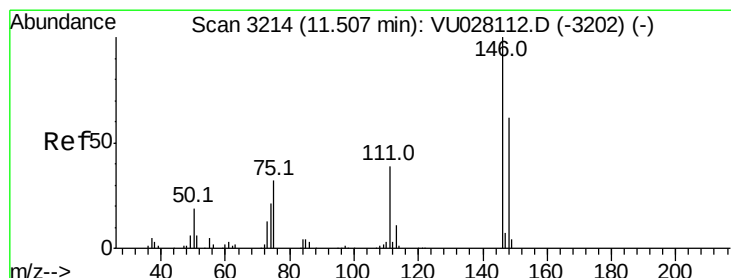
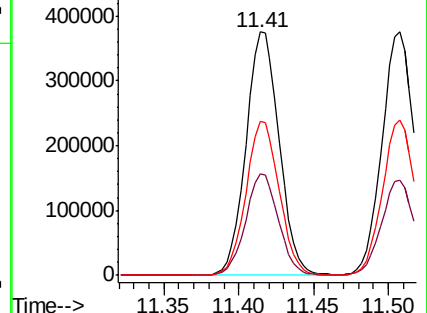
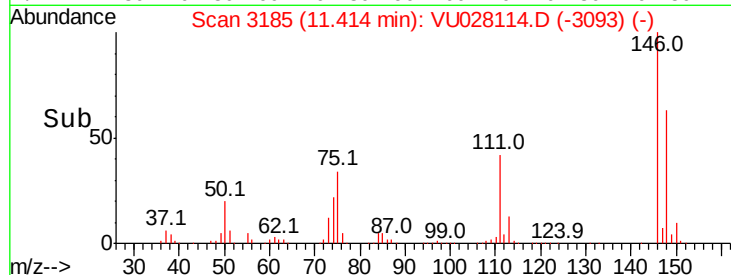
148 63.2 44.1 81.9



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



#63

1,4-Dichlorobenzene

Concen: 21.568 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

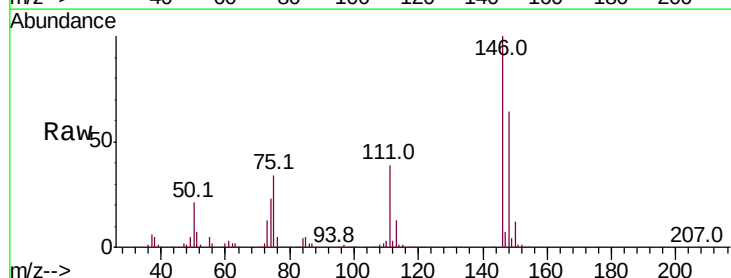
Tgt Ion:146 Resp: 577414

Ion Ratio Lower Upper

146 100

111 39.1 27.4 51.0

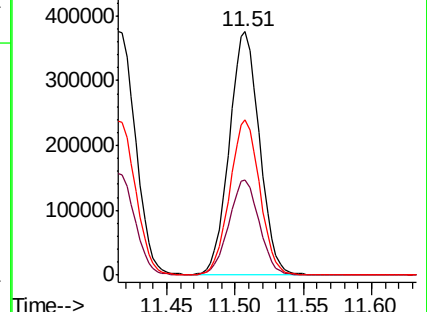
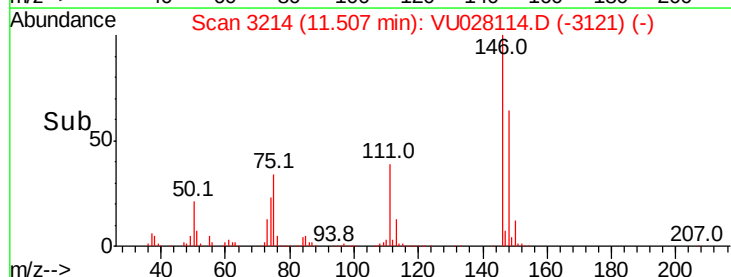
148 63.6 43.8 81.3

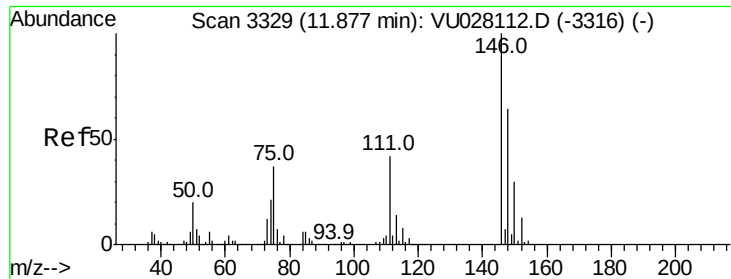


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

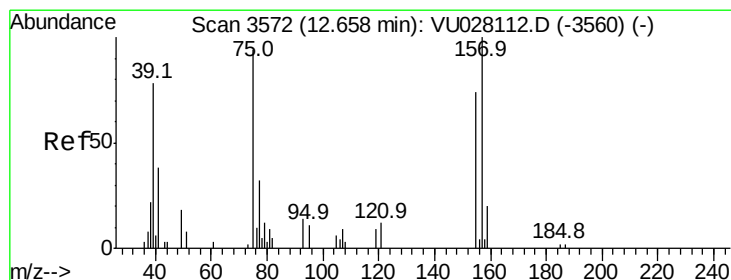
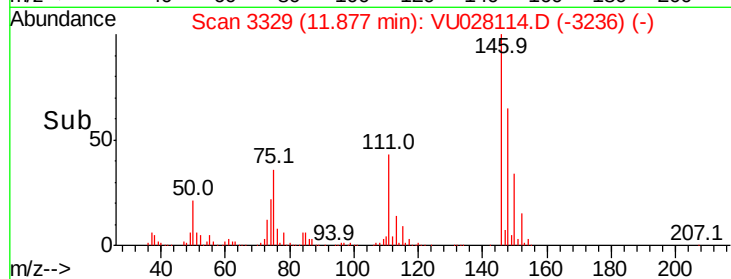
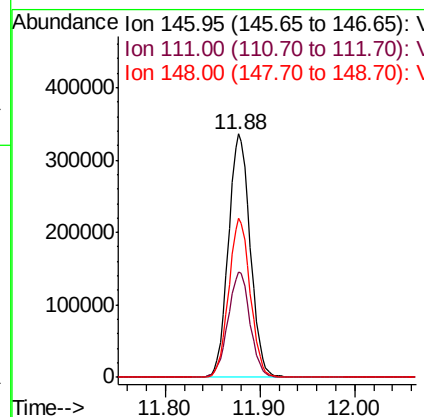
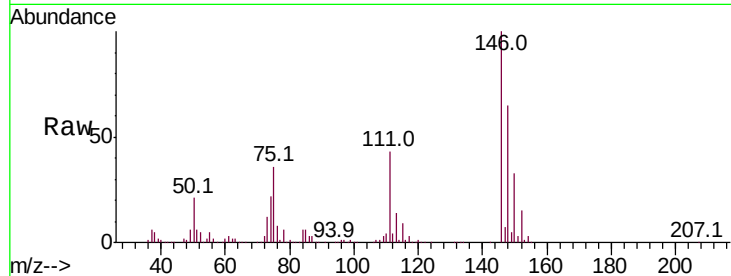




#65
 1,2-Dichlorobenzene
 Concen: 21.271 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

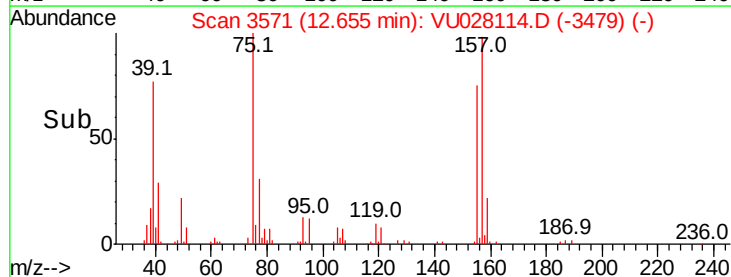
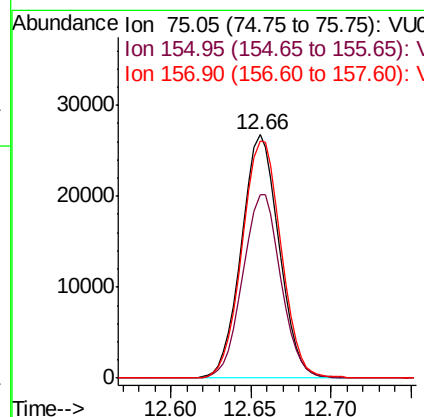
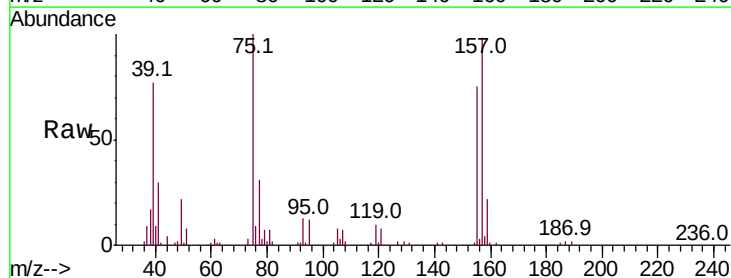
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

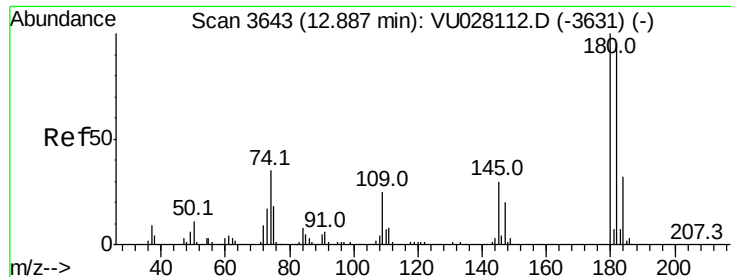
Tot Ion:146 Resp: 537961
 Ion Ratio Lower Upper
 146 100
 111 43.3 33.9 50.9
 148 65.2 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.300 ug/L
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion: 75 Resp: 42758
 Ion Ratio Lower Upper
 75 100
 155 75.2 62.8 94.2
 157 97.6 85.3 127.9

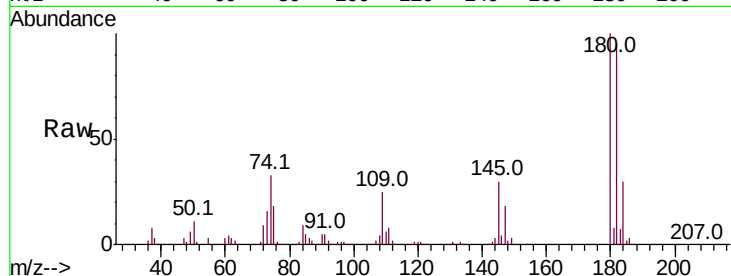




#67
 1,3,5-Trichlorobenzene
 Concen: 22.299 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02048

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.6	114.8
184	30.3	24.7	37.1
145	29.3	24.0	36.0



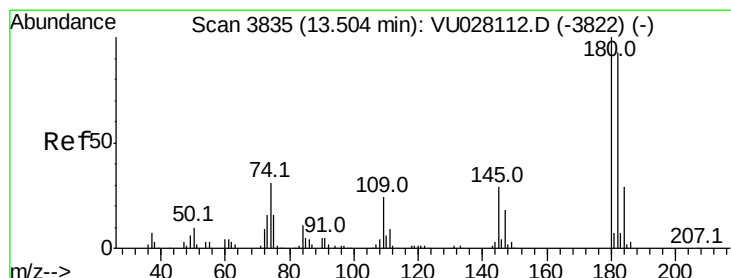
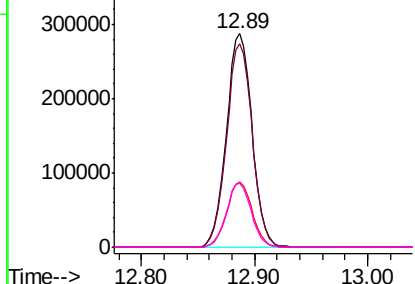
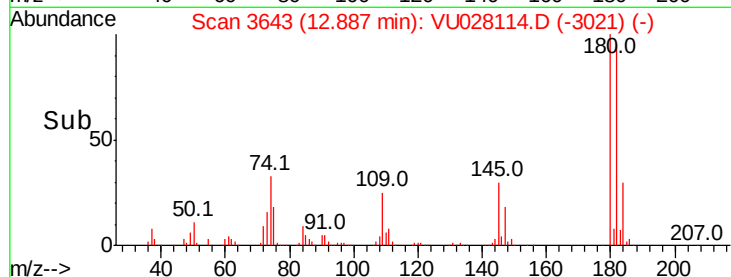
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

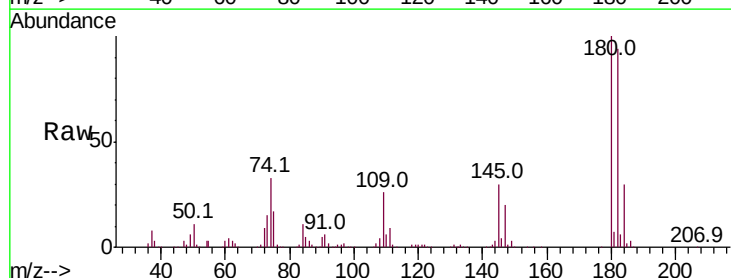
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.982 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028114.D
 Acq: 14 Nov 2018 11:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.1	112.7
145	29.7	23.4	35.0

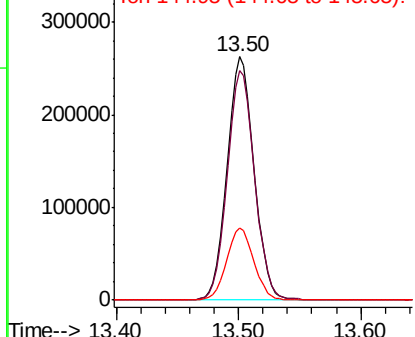
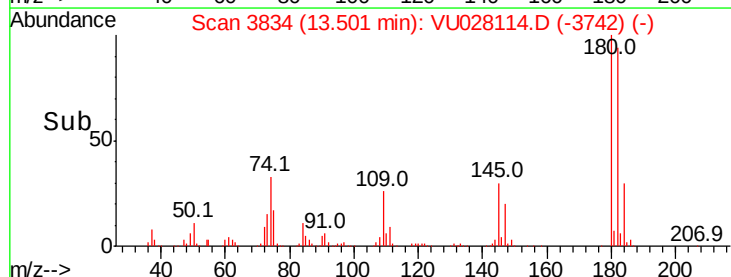


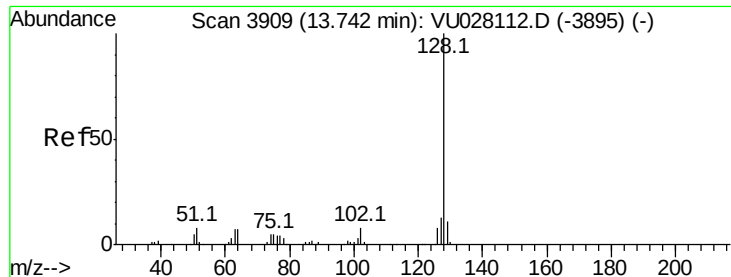
Abundance

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: 23.497 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD02048

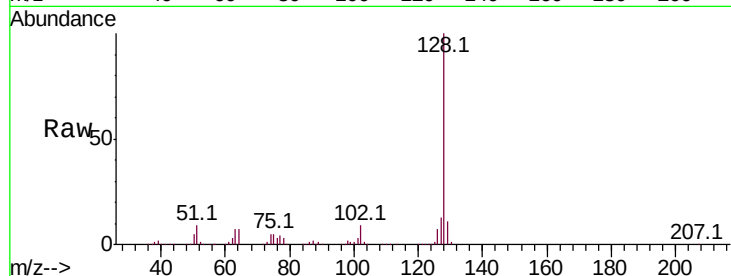
Tot Ion:128 Resp: 774376

Ion Ratio Lower Upper

128 100

129 10.7 8.5 12.7

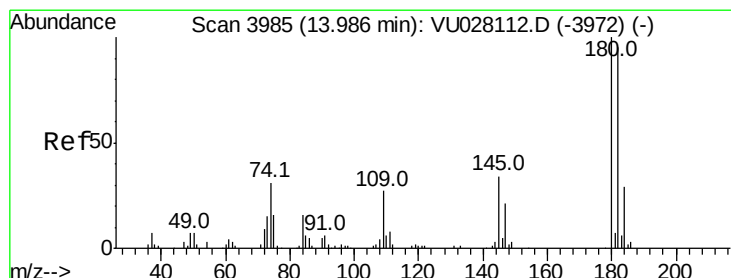
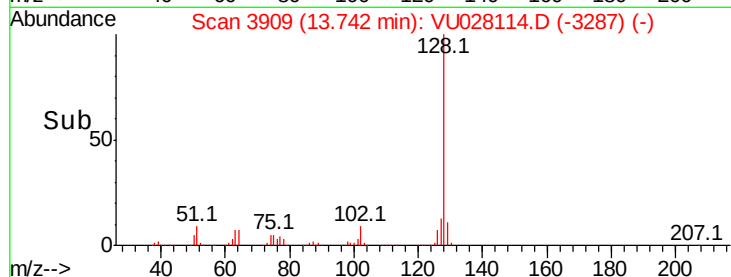
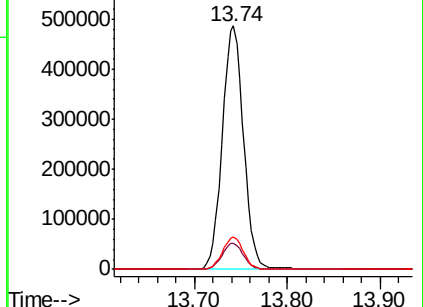
127 13.0 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 22.716 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU028114.D

Acq: 14 Nov 2018 11:39

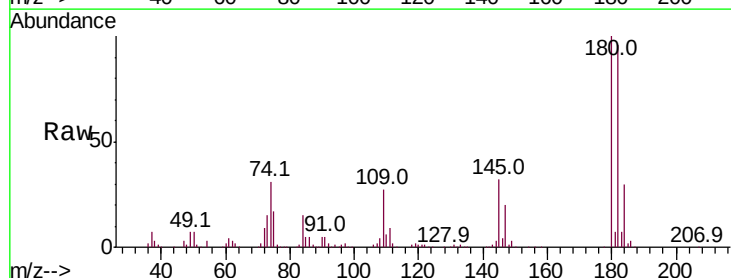
Tgt Ion:180 Resp: 370044

Ion Ratio Lower Upper

180 100

182 94.7 77.6 116.4

145 31.4 26.2 39.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

