

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028158.D
 Acq On : 15 Nov 2018 06:51
 Operator : MD/SY
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 08:18:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	136664	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	131256	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	62783	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	55318	4.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.60%
7) Chloroethane-d5	1.68	69	44193	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.28	63	103473	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.60%
20) 2-Butanone-d5	4.19	46	178711	54.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.66%
24) Chloroform-d	4.65	84	93724	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.00%
26) 1,2-Dichloroethane-d4	5.31	65	51718	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%
32) Benzene-d6	5.34	84	187771	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.33	67	67675	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.57	98	171911	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.85	79	21432	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.31	63	140477	51.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.30%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	50112	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	58481	4.98	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	60425	5.013	ug/L 100
3) Chloromethane	1.33	50	73852	4.793	ug/L 99
5) Vinyl chloride	1.40	62	71904	4.912	ug/L 99
6) Bromomethane	1.63	94	24081	3.435	ug/L 96
8) Chloroethane	1.70	64	41175	4.672	ug/L 98
9) Trichlorofluoromethane	1.89	101	79852	5.001	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	43450	4.847	ug/L 97
12) 1,1-Dichloroethene	2.29	96	42563	4.684	ug/L 94
13) Acetone	2.32	43	103409	46.681	ug/L 98
14) Carbon disulfide	2.48	76	145981	4.791	ug/L 98
15) Methyl Acetate	2.62	43	29781	5.027	ug/L 96
16) Methylene chloride	2.70	84	48741	4.540	ug/L 92
17) Methyl tert-butyl Ether	3.01	73	125522	4.941	ug/L 99
18) trans-1,2-Dichloroethene	2.98	96	45646	4.725	ug/L 100
19) 1,1-Dichloroethane	3.45	63	100484	4.946	ug/L 99
21) 2-Butanone	4.28	43	183732	52.555	ug/L 100
22) cis-1,2-Dichloroethene	4.23	96	55205	5.183	ug/L 99

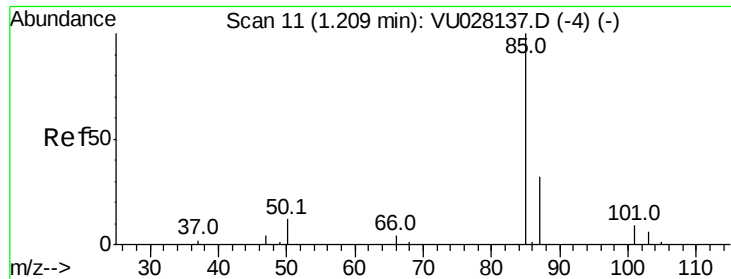
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	20421	4.852	ug/L	95
25) Chloroform	4.68	83	93217	5.115	ug/L	99
27) 1,2-Dichloroethane	5.41	62	62450	5.213	ug/L	99
29) 1,1,1-Trichloroethane	4.92	97	72845	4.904	ug/L	99
30) Cyclohexane	4.99	56	104397	5.012	ug/L	98
31) Carbon tetrachloride	5.13	117	61218	4.965	ug/L	97
33) Benzene	5.39	78	219998	4.975	ug/L	100
34) Trichloroethene	6.19	95	53868	4.929	ug/L	98
35) Methylcyclohexane	6.41	83	89869	4.783	ug/L	96
37) 1,2-Dichloropropane	6.43	63	61190	5.004	ug/L	99
38) Bromodichloromethane	6.76	83	64241	4.937	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	75285	4.554	ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	450455	53.494	ug/L	98
42) Toluene	7.64	91	228156	5.004	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	58515	4.517	ug/L	93
45) 1,1,2-Trichloroethane	8.07	97	37345	5.059	ug/L	99
47) Tetrachloroethene	8.23	164	37958	4.272	ug/L	94
48) 2-Hexanone	8.37	43	320549	53.499	ug/L	98
49) Dibromochloromethane	8.48	129	38199	4.860	ug/L	99
50) 1,2-Dibromoethane	8.59	107	34835	5.012	ug/L	99
51) Chlorobenzene	9.12	112	130302	4.888	ug/L	96
52) Ethylbenzene	9.25	91	248749	4.999	ug/L	98
53) m,p-xylene	9.38	106	89825	4.954	ug/L	100
54) o-xylene	9.78	106	85839	4.918	ug/L	97
55) Styrene	9.79	104	145890	4.942	ug/L	100
56) Isopropylbenzene	10.17	105	233316	4.942	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	49010	5.150	ug/L #	98
59) 1,2,3-Trichloropropane	10.49	75	34532	5.028	ug/L	99
61) Bromoform	9.96	173	19498	4.593	ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	98342	4.954	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	99844	4.969	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	94595	4.983	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	7003	5.084	ug/L	87
67) 1,3,5-Trichlorobenzene	12.89	180	74359	4.883	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	66191	4.987	ug/L	99
69) Naphthalene	13.74	128	119488	4.830	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	59927	4.901	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.013 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

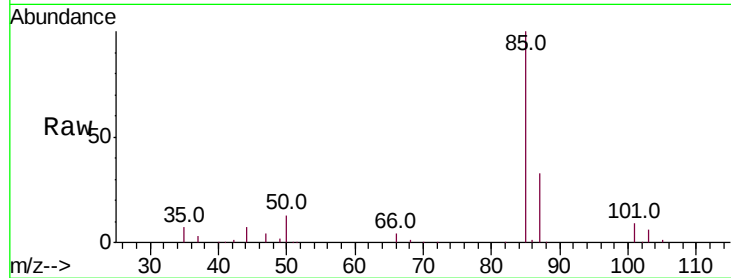
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 60425

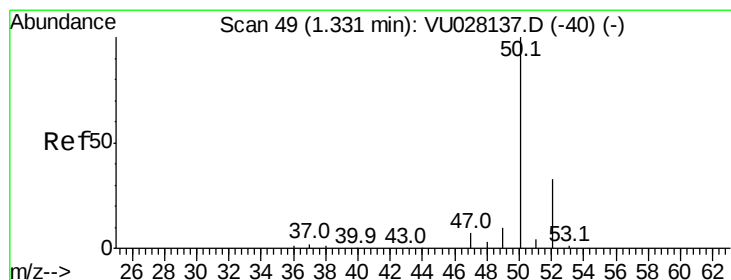
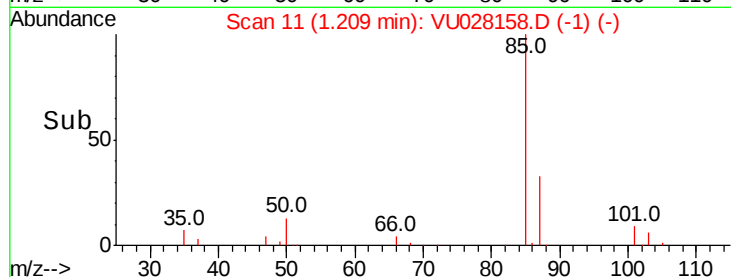
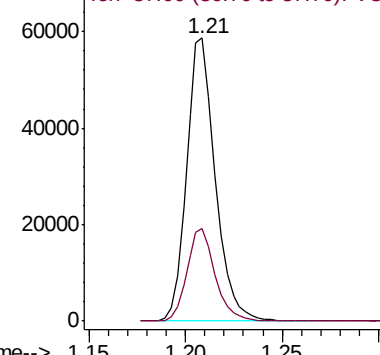
Ion Ratio Lower Upper

85 100

87 32.1 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: 4.793 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU028158.D

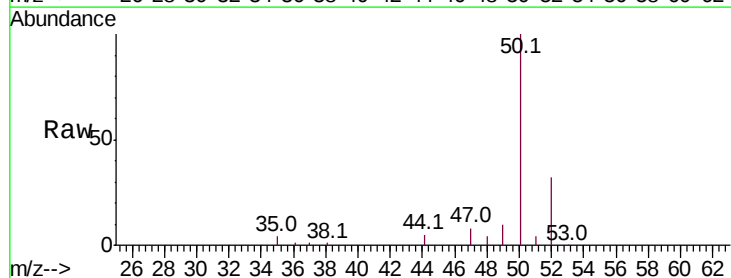
Acq: 15 Nov 2018 06:51

Tgt Ion: 50 Resp: 73852

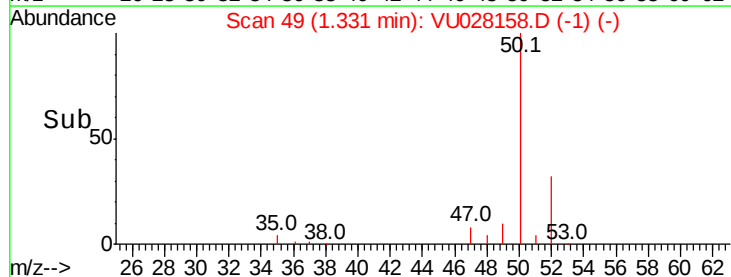
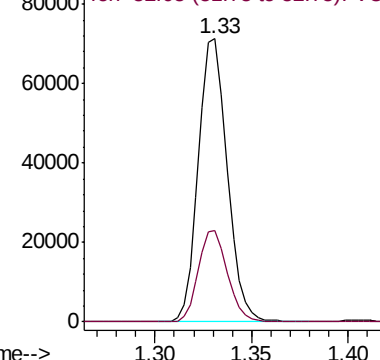
Ion Ratio Lower Upper

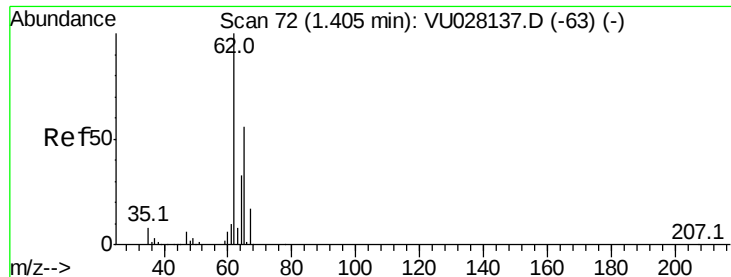
50 100

52 32.2 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: 4.912 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

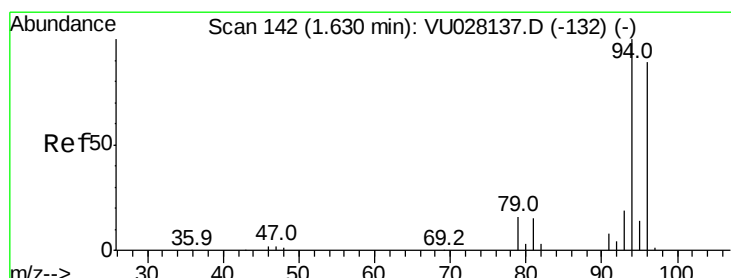
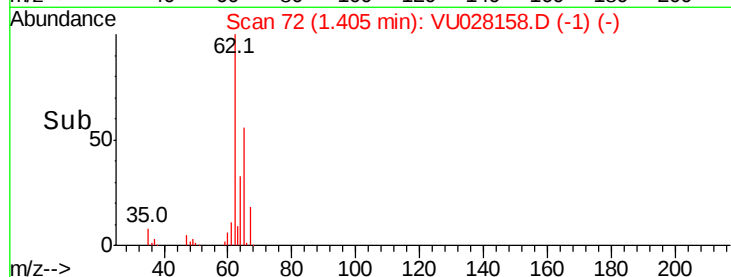
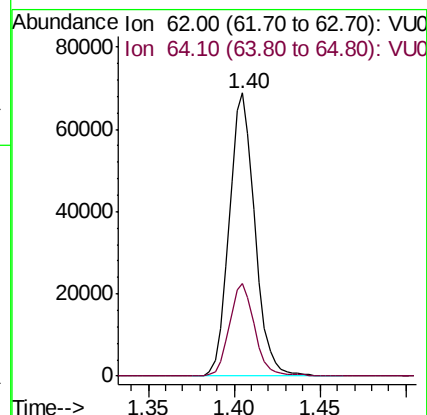
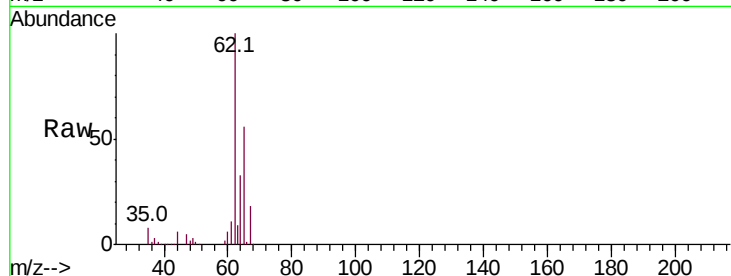
ClientSampleId :

Tot Ion: 62 Resp: 71904

Ion Ratio Lower Upper

62 100

64 32.9 22.7 42.3



#6

Bromomethane

Concen: 3.435 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU028158.D

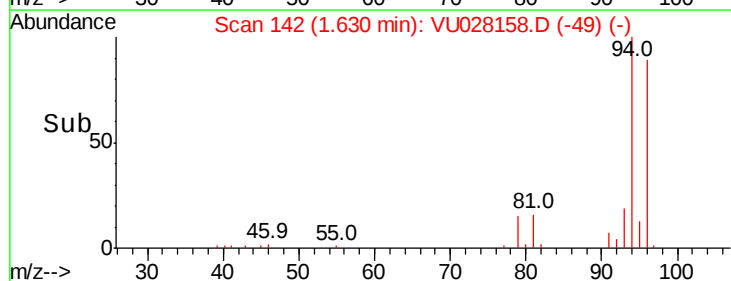
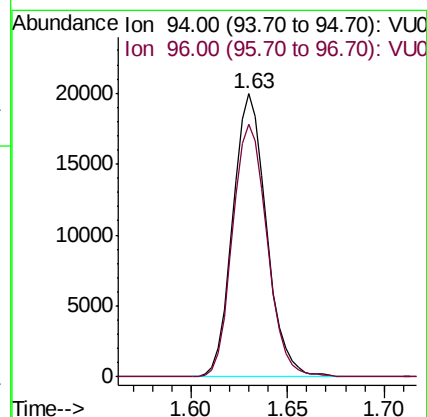
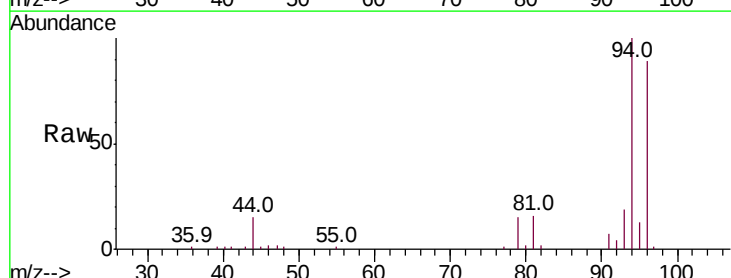
Acq: 15 Nov 2018 06:51

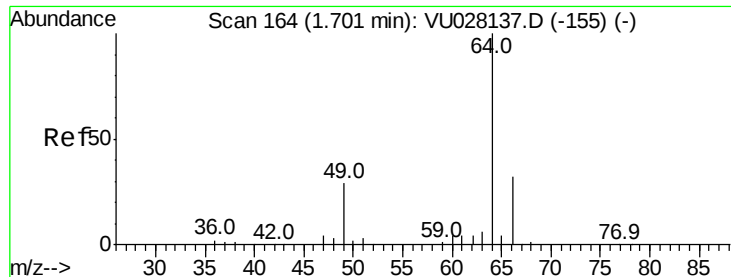
Tgt Ion: 94 Resp: 24081

Ion Ratio Lower Upper

94 100

96 89.3 65.1 120.9





#8

Chloroethane

Concen: 4.672 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

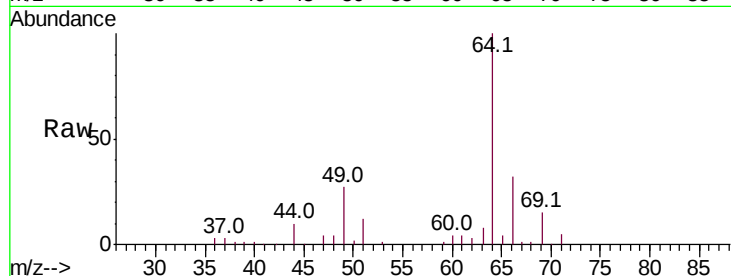
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 41175

Ion Ratio Lower Upper

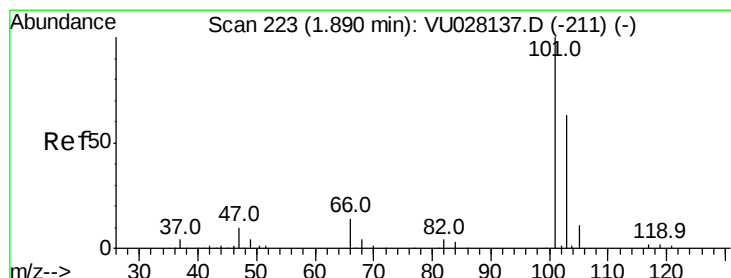
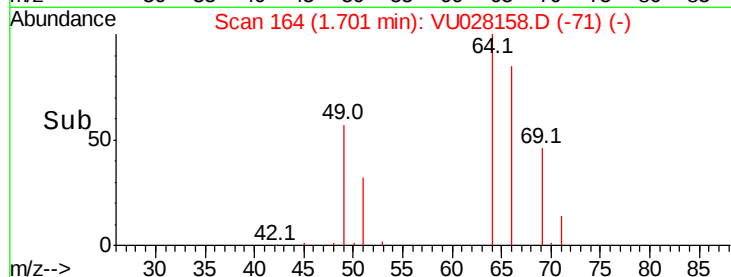
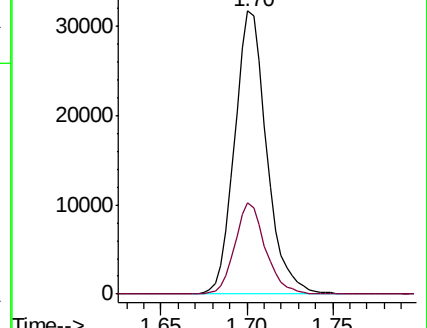
64 100

66 32.1 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU028137.D (-155) (-)

Ion 66.05 (65.75 to 66.75): VU028137.D (-155) (-)



#9

Trichlorofluoromethane

Concen: 5.001 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU028158.D

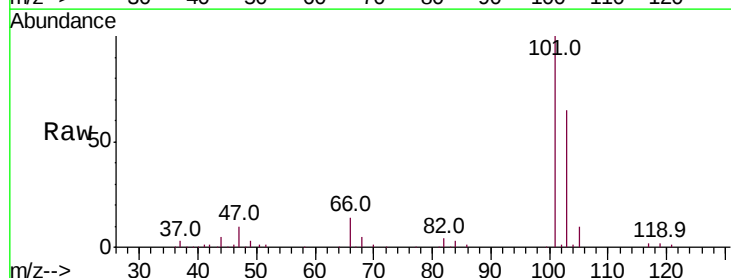
Acq: 15 Nov 2018 06:51

Tgt Ion: 101 Resp: 79852

Ion Ratio Lower Upper

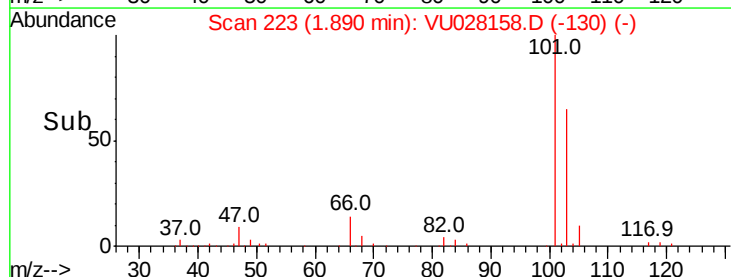
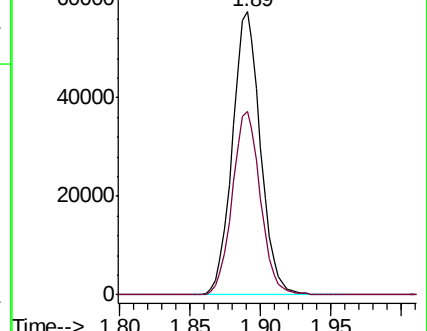
101 100

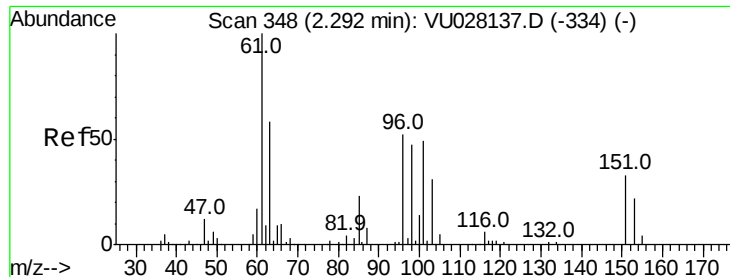
103 64.8 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU028137.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028137.D (-211) (-)





#10

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

Concen: 4.847 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

ClientSampled :

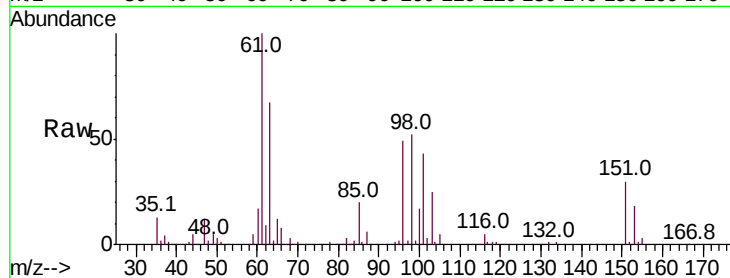
Tot Ion:101 Resp: 43450

Ion Ratio Lower Upper

101 100

85 48.4 37.6 56.4

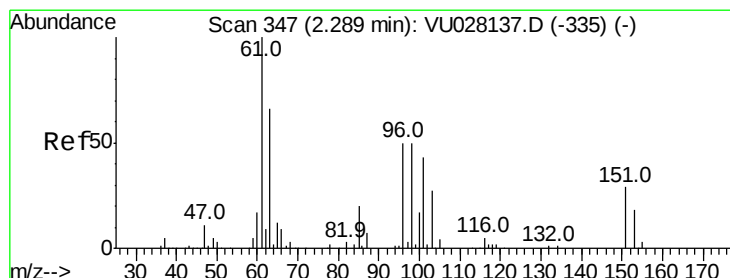
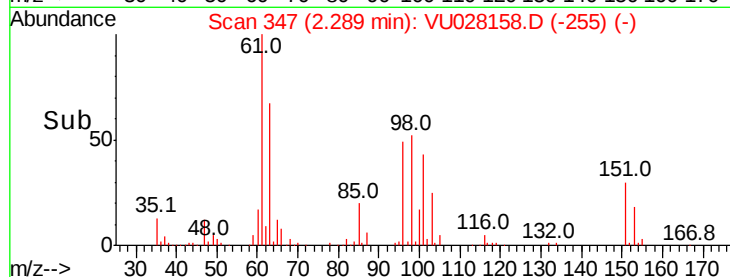
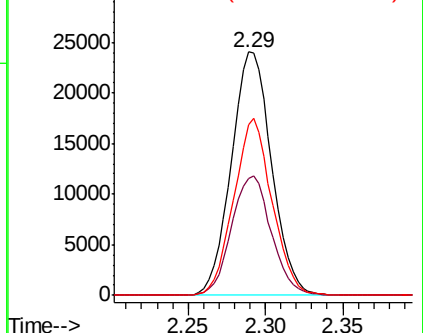
151 69.1 58.2 87.2



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: 4.684 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

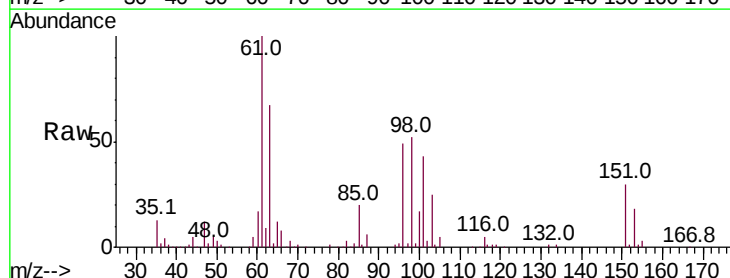
Tgt Ion: 96 Resp: 42563

Ion Ratio Lower Upper

96 100

61 204.0 134.8 250.3

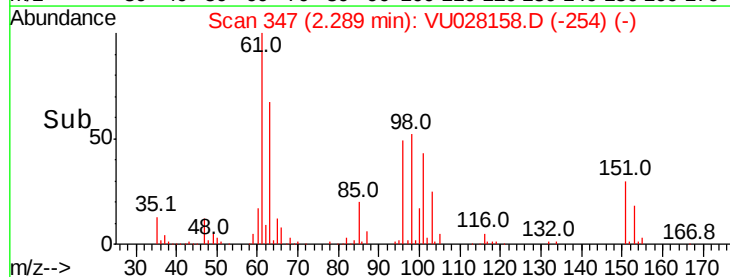
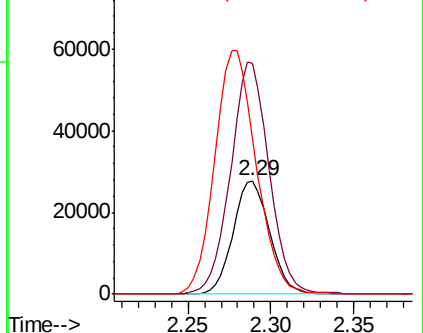
63 137.7 100.1 185.9

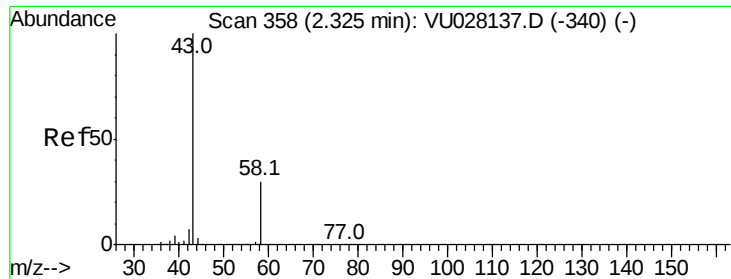


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 46.681 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

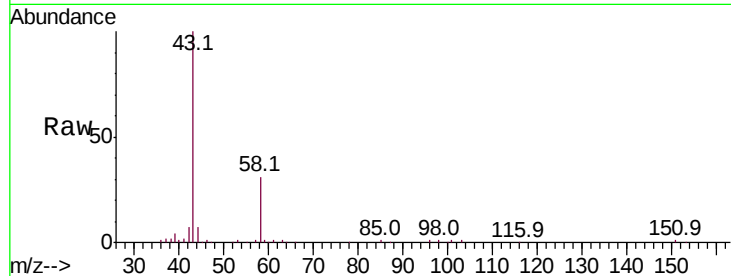
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 103409

Ion Ratio Lower Upper

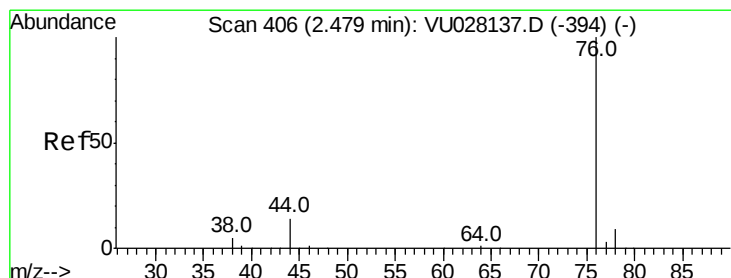
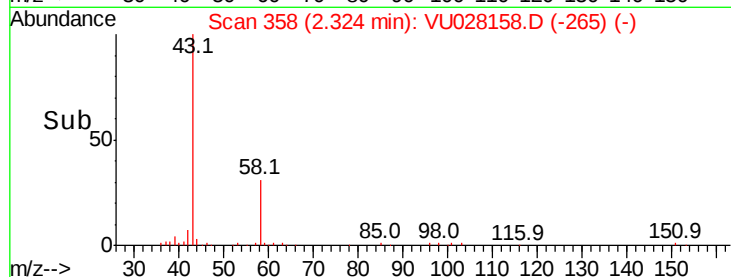
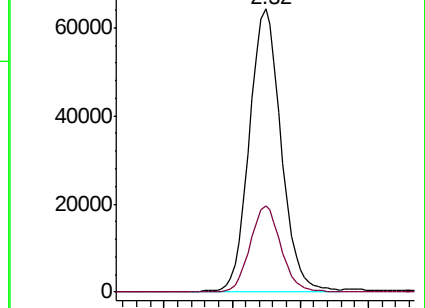
43 100

58 29.9 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU028137.D (-340) (-)

Ion 58.05 (57.75 to 58.75): VU028137.D (-340) (-)



#14

Carbon disulfide

Concen: 4.791 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028158.D

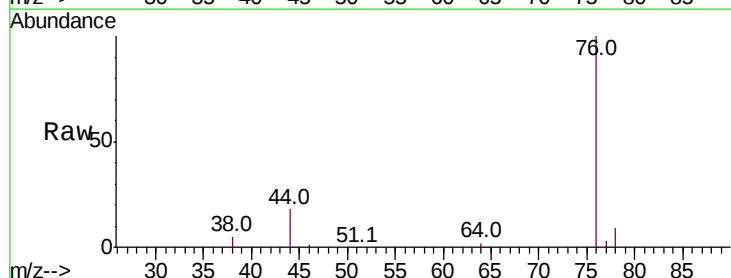
Acq: 15 Nov 2018 06:51

Tgt Ion: 76 Resp: 145981

Ion Ratio Lower Upper

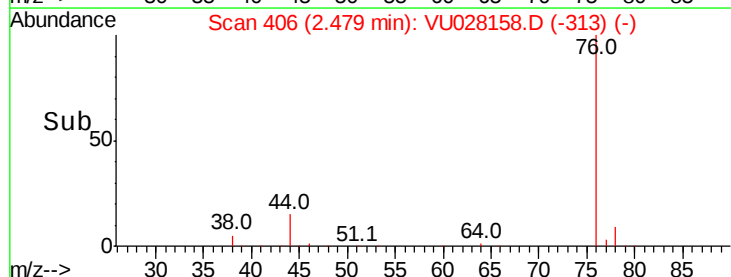
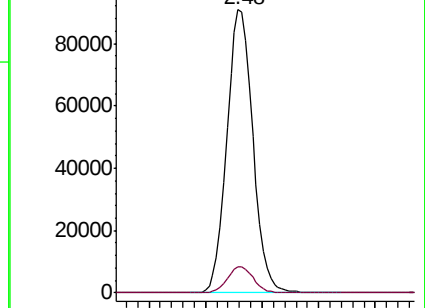
76 100

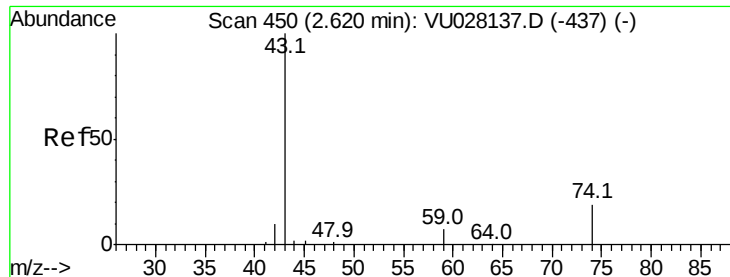
78 9.3 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU028137.D (-394) (-)

Ion 78.00 (77.70 to 78.70): VU028137.D (-394) (-)





#15

Methvl Acetate

Concen: 5.027 ug/L

RT: 2.62 min Scan# 449

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

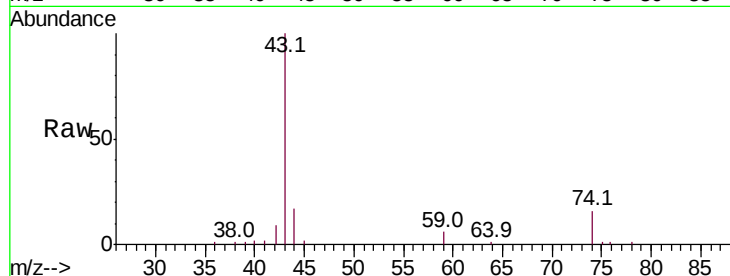
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 29781

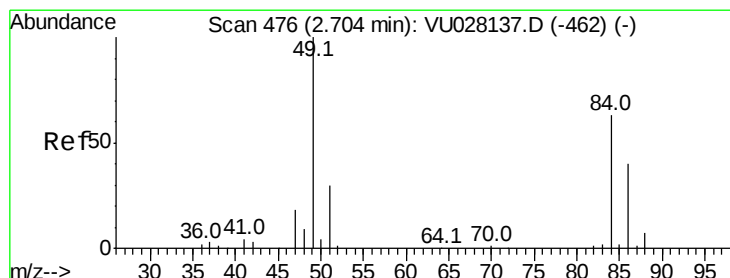
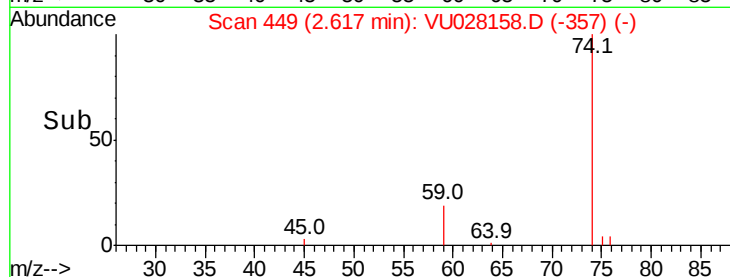
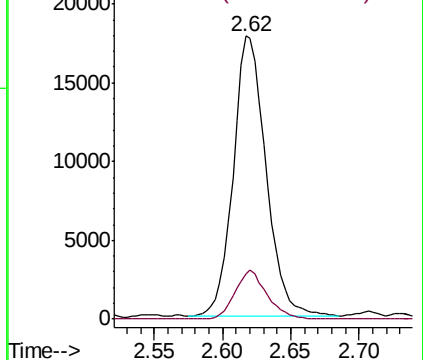
Ion Ratio Lower Upper

43 100

74 16.8 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: 4.540 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

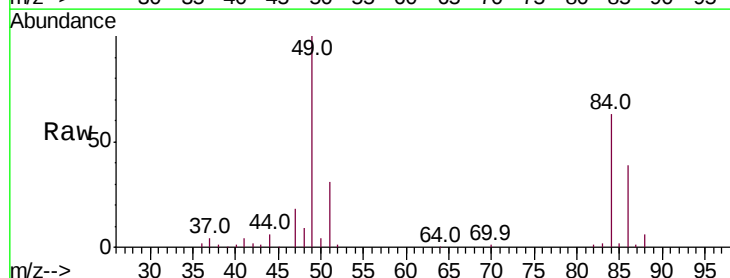
Tgt Ion: 84 Resp: 48741

Ion Ratio Lower Upper

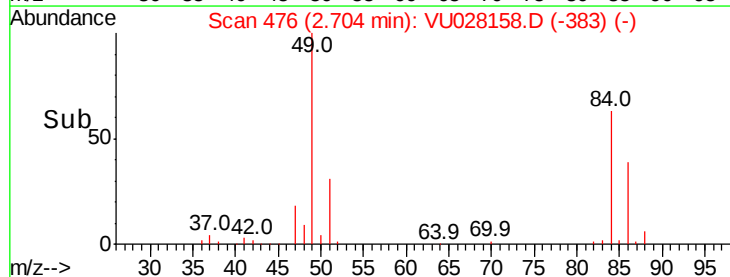
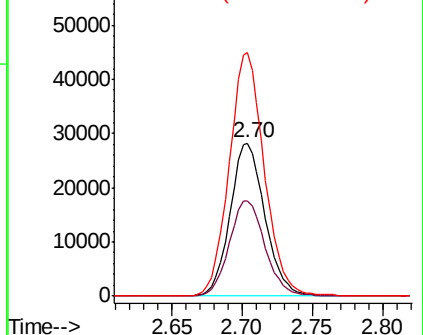
84 100

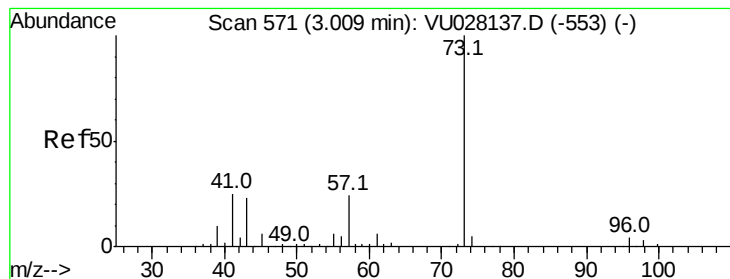
86 62.3 44.6 82.8

49 159.4 102.5 190.3



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



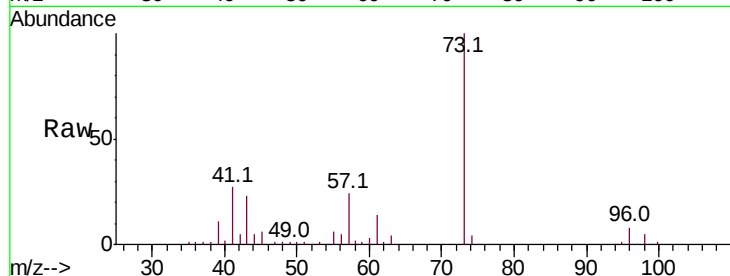


#17

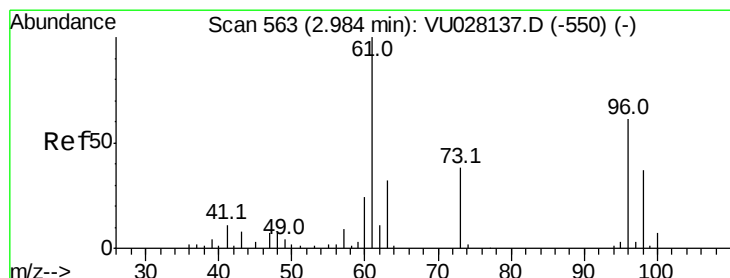
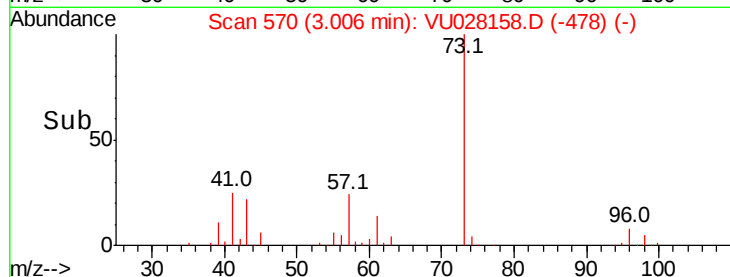
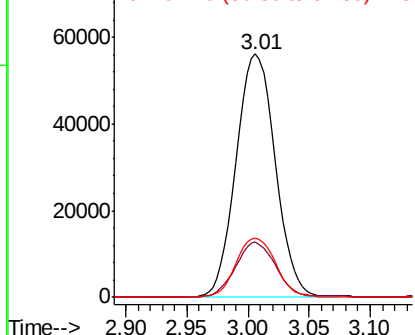
Methvl tert-butvl Ether
 Concen: 4.941 ug/L
 RT: 3.01 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 125522
 Ion Ratio Lower Upper
 73 100
 43 22.8 18.1 27.1
 57 24.6 20.0 30.0



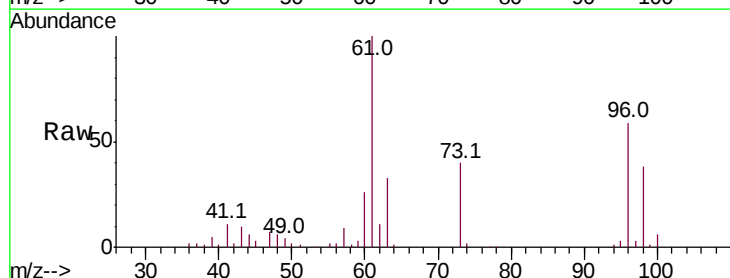
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



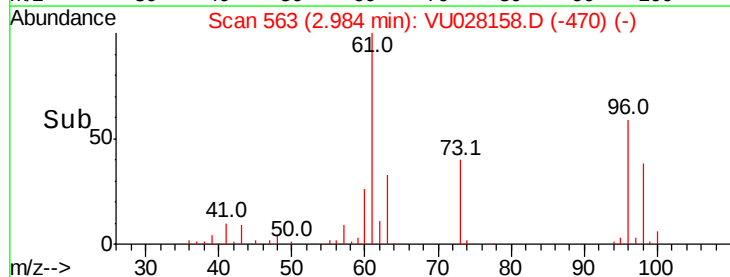
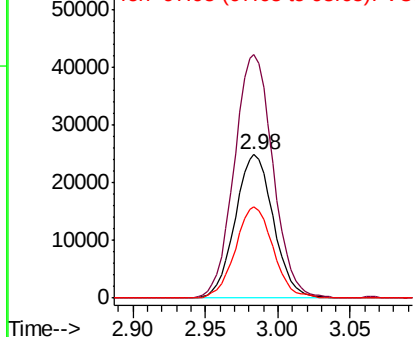
#18

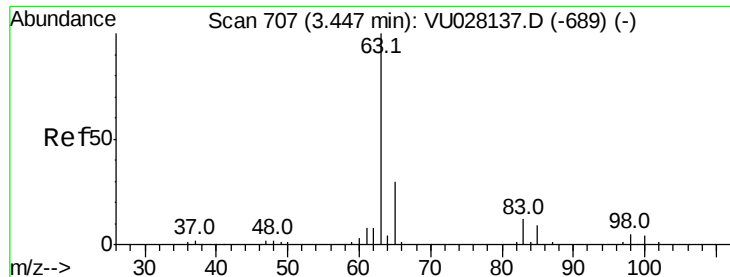
trans-1,2-Dichloroethene
 Concen: 4.725 ug/L
 RT: 2.98 min Scan# 563
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Tgt Ion: 96 Resp: 45646
 Ion Ratio Lower Upper
 96 100
 61 170.0 118.5 220.1
 98 64.0 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



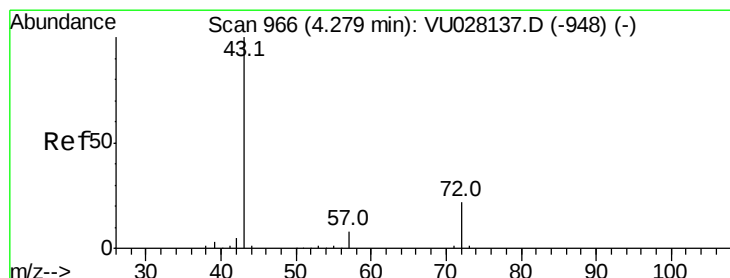
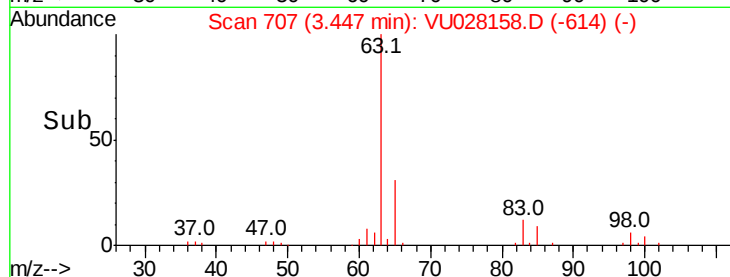
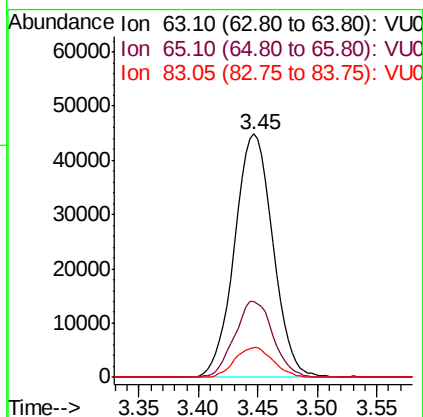
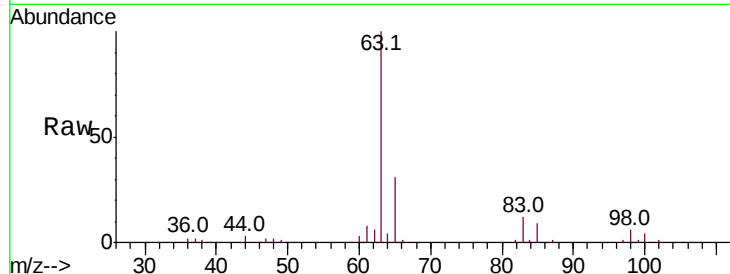


#19
 1,1-Dichloroethane
 Concen: 4.946 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 100484

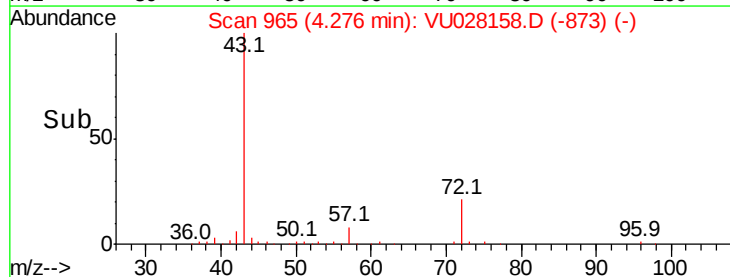
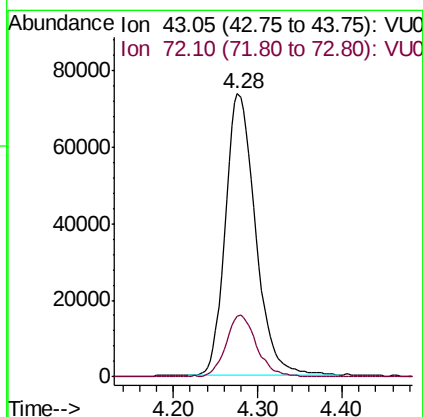
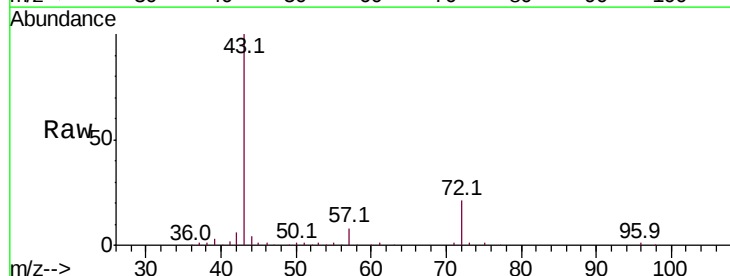
Ion	Ratio	Lower	Upper
63	100		
65	31.3	22.2	41.2
83	12.5	8.9	16.5

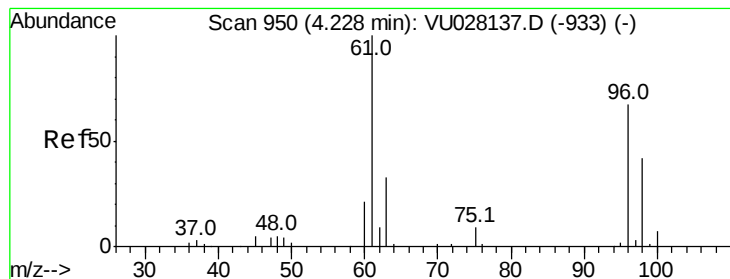


#21
 2-Butanone
 Concen: 52.555 ug/L
 RT: 4.28 min Scan# 965
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Tgt Ion: 43 Resp: 183732

Ion	Ratio	Lower	Upper
43	100		
72	21.8	11.0	33.0





#22

cis-1,2-Dichloroethene

Concen: 5.183 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :
MSVOA_U
ClientSampled :

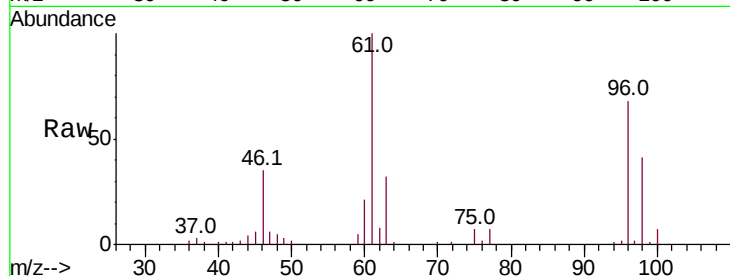
Tot Ion: 96 Resp: 55205

Ion Ratio Lower Upper

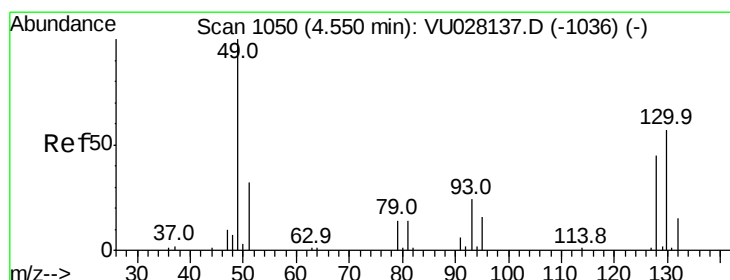
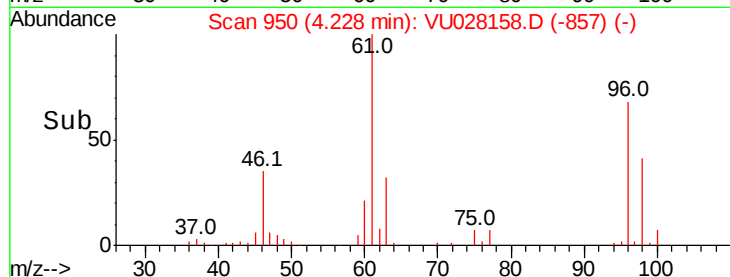
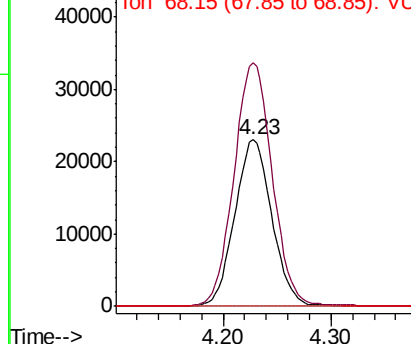
96 100

61 146.1 101.8 189.0

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: 4.852 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Tgt Ion: 128 Resp: 20421

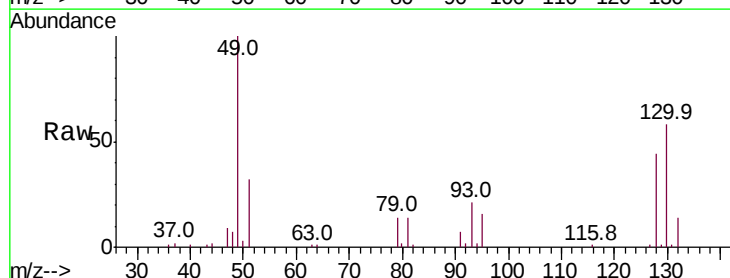
Ion Ratio Lower Upper

128 100

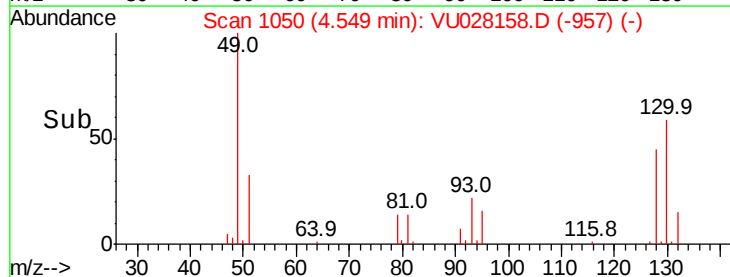
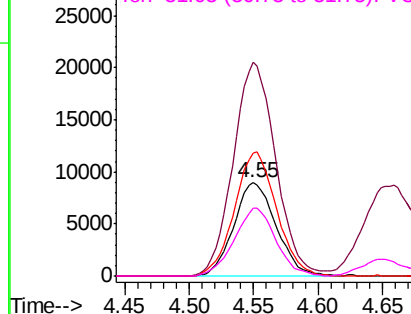
49 229.8 152.2 282.6

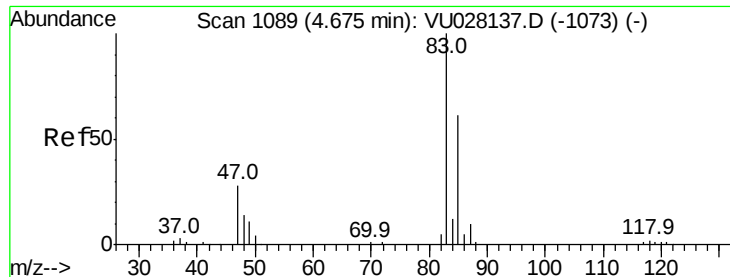
130 132.3 93.2 173.0

51 73.0 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

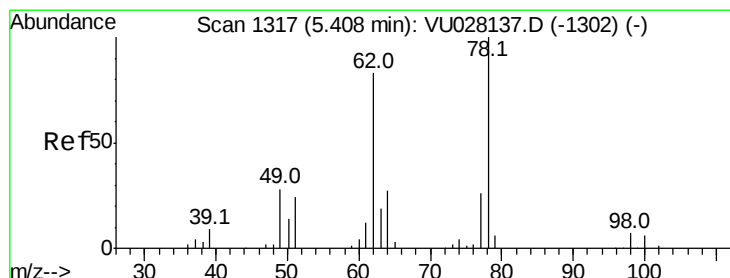
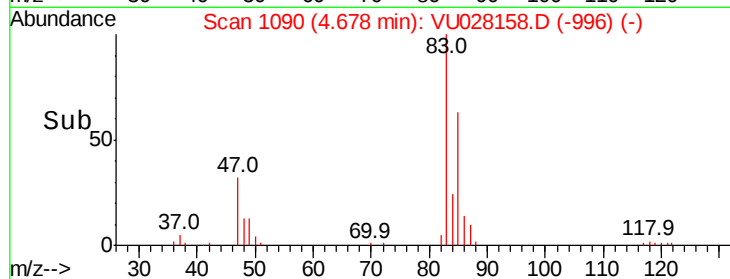
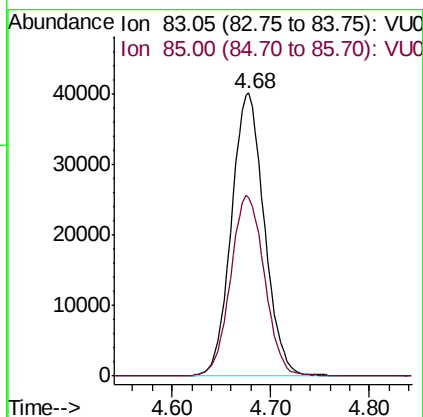
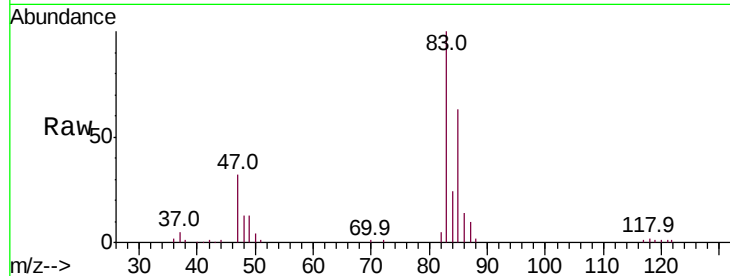




#25
Chloroform
Concen: 5.115 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU028158.D
Acq: 15 Nov 2018 06:51

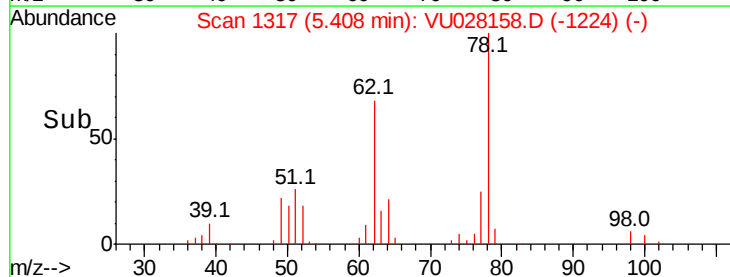
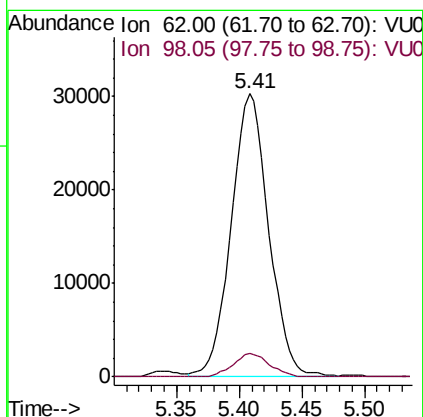
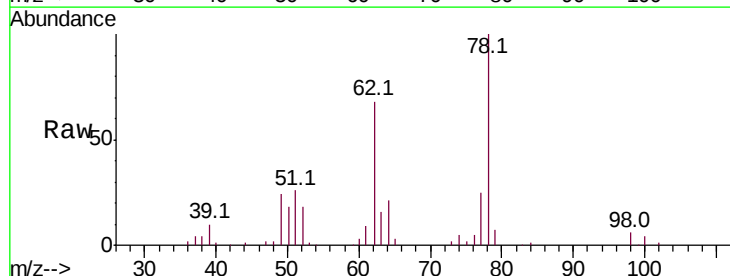
Instrument :
MSVOA_U
ClientSampleId :

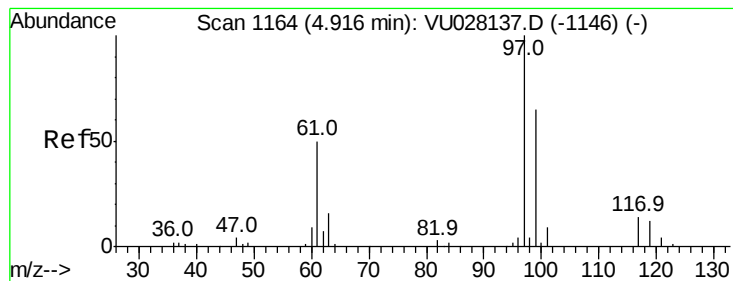
Tot Ion: 83 Resp: 93217
Ion Ratio Lower Upper
83 100
85 63.2 45.0 83.6



#27
1,2-Dichloroethane
Concen: 5.213 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU028158.D
Acq: 15 Nov 2018 06:51

Tgt Ion: 62 Resp: 62450
Ion Ratio Lower Upper
62 100
98 8.4 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 4.904 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :
MSVOA_U
ClientSampleId :

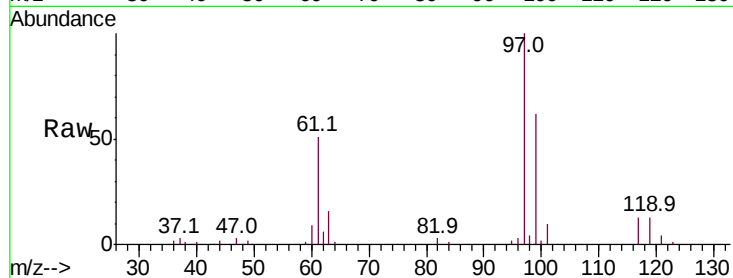
Tot Ion: 97 Resp: 72845

Ion Ratio Lower Upper

97 100

99 63.9 51.2 76.8

61 51.2 39.4 59.2

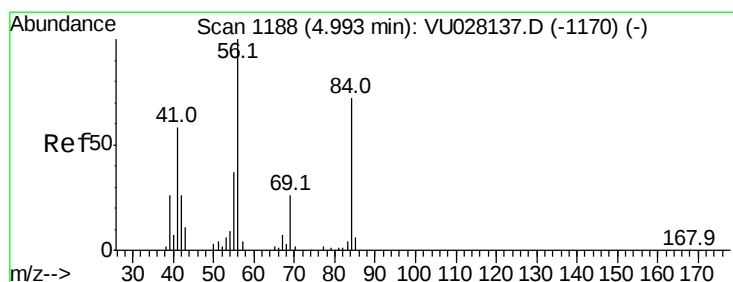
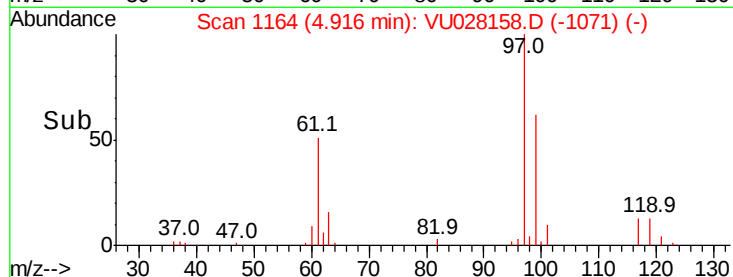
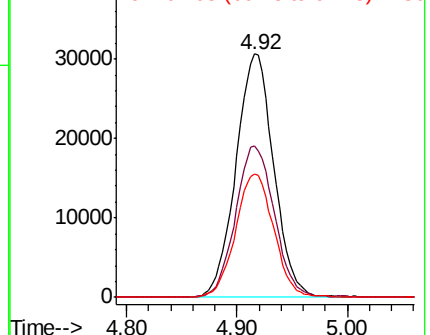


Abundance

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: 5.012 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

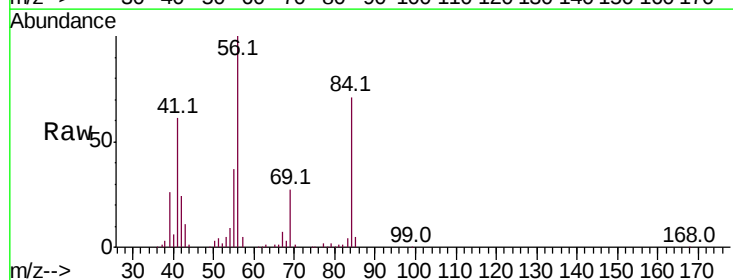
Tgt Ion: 56 Resp: 104397

Ion Ratio Lower Upper

56 100

69 26.7 22.6 33.8

84 70.5 57.7 86.5

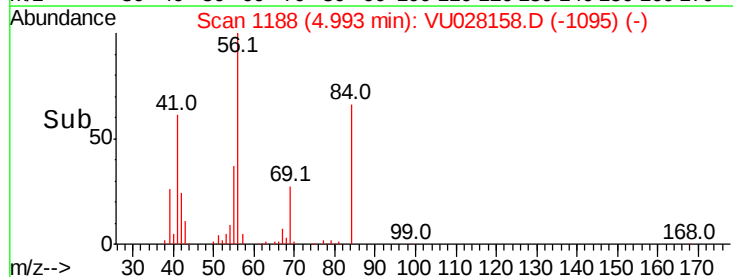
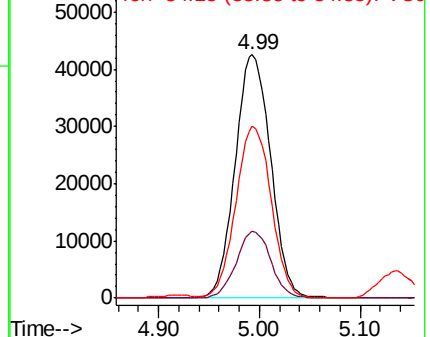


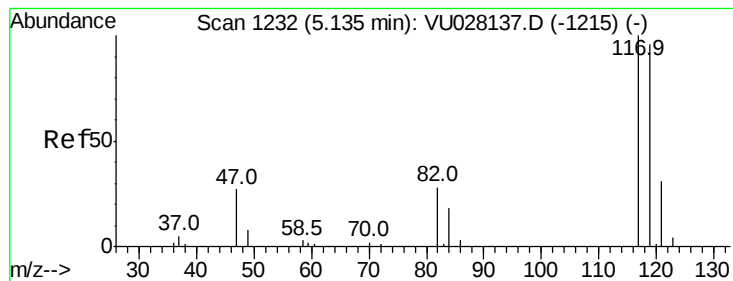
Abundance

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: 4.965 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

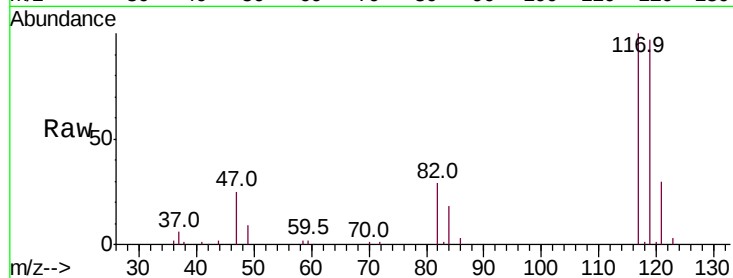
ClientSampled :

Tot Ion:117 Resp: 61218

Ion Ratio Lower Upper

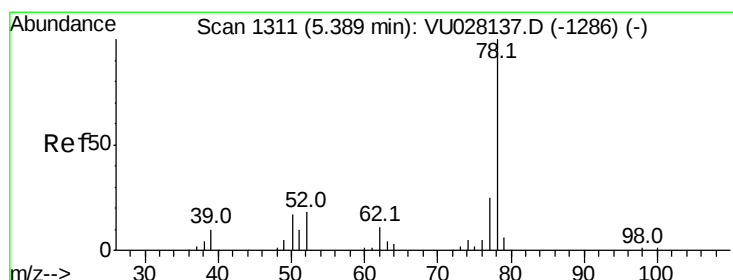
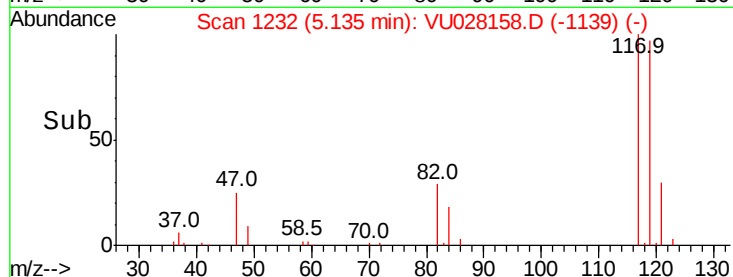
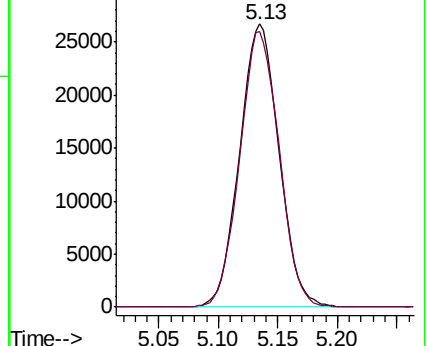
117 100

119 97.3 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: 4.975 ug/L

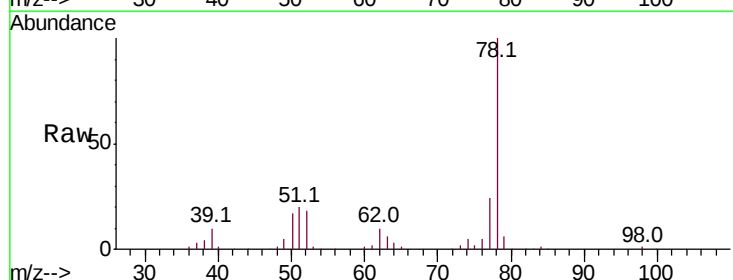
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

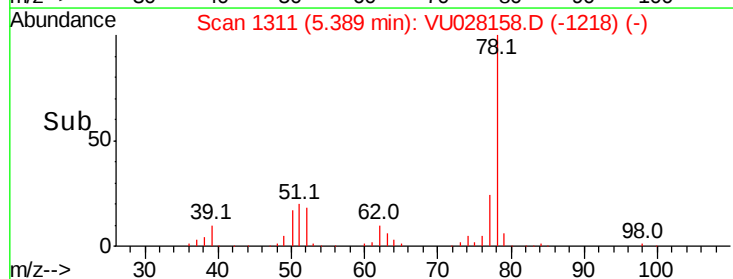
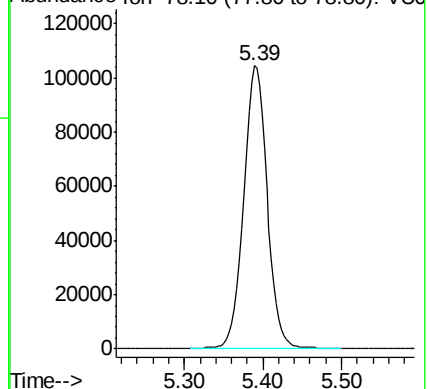
Lab File: VU028158.D

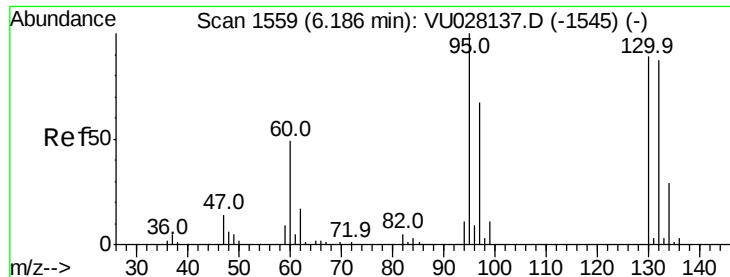
Acq: 15 Nov 2018 06:51

Tgt Ion: 78 Resp: 219998



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.929 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 53868

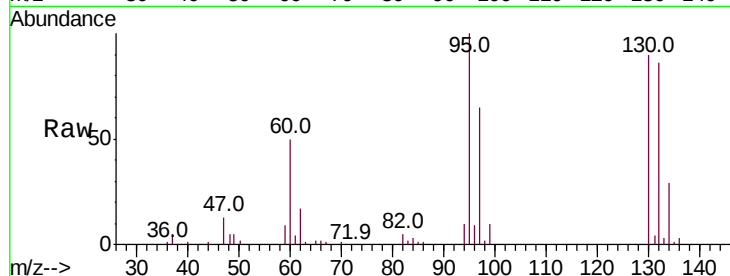
Ion Ratio Lower Upper

95 100

97 64.6 45.3 84.1

132 86.2 63.0 117.0

130 90.1 63.6 118.2

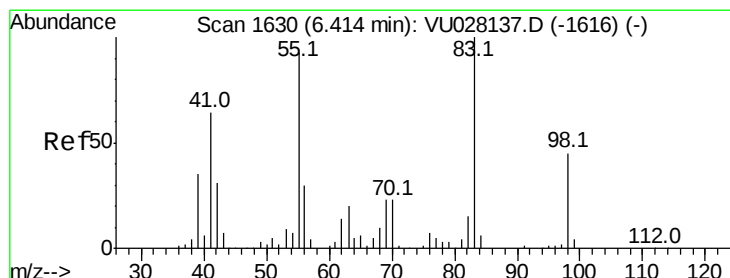
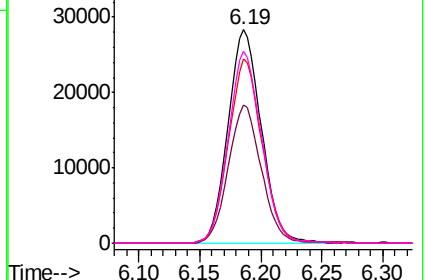
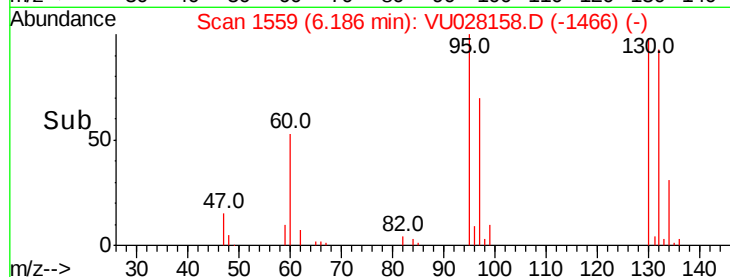


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.783 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

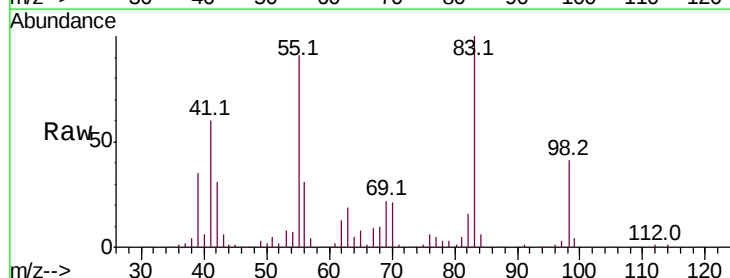
Tgt Ion: 83 Resp: 89869

Ion Ratio Lower Upper

83 100

55 91.5 69.0 103.4

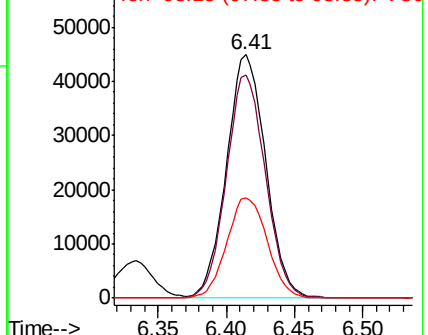
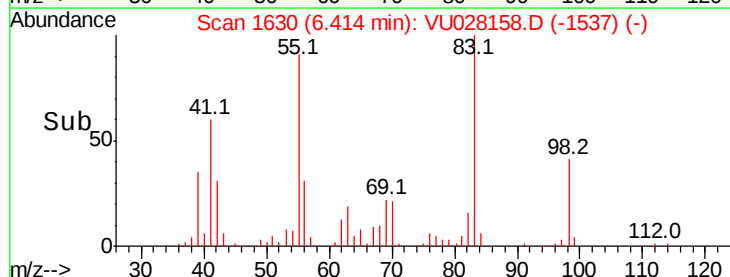
98 42.5 33.3 49.9

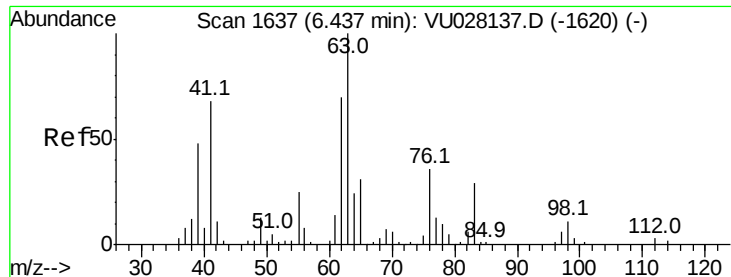


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.004 ug/L

RT: 6.43 min Scan# 1636

Delta R.T. -0.00 min

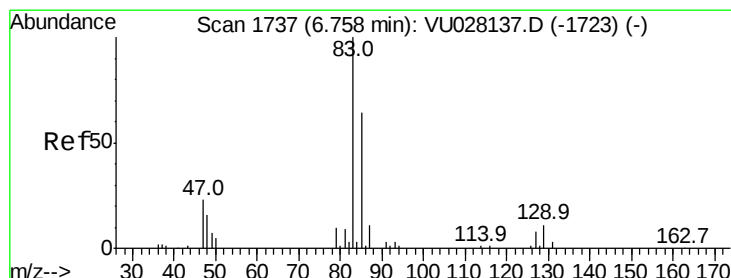
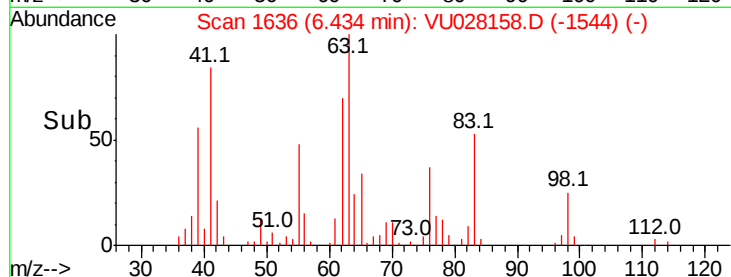
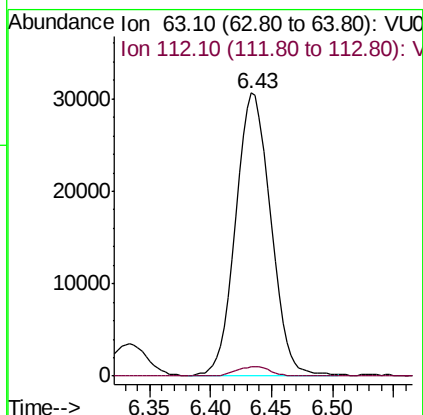
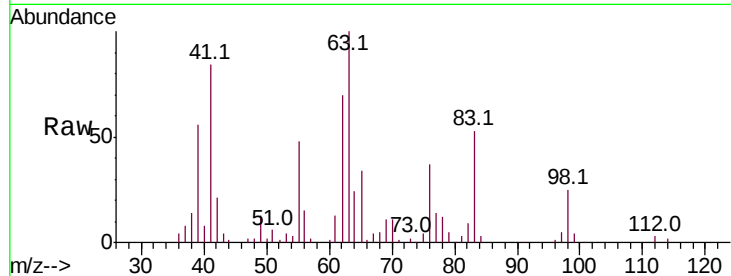
Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 63 Resp: 61190

Ion	Ratio	Lower	Upper
63	100		
112	3.1	2.2	3.4



#38

Bromodichloromethane

Concen: 4.937 ug/L

RT: 6.76 min Scan# 1737

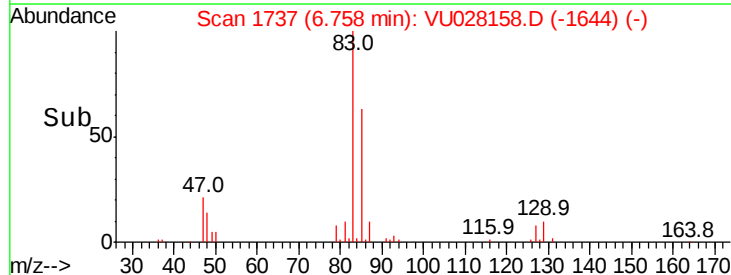
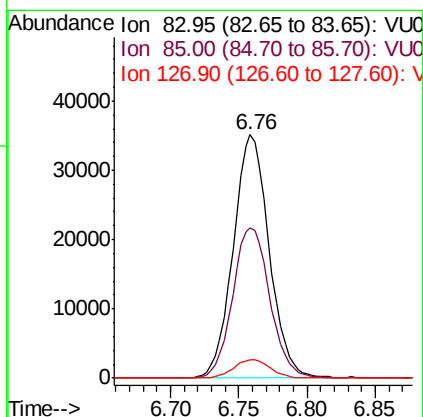
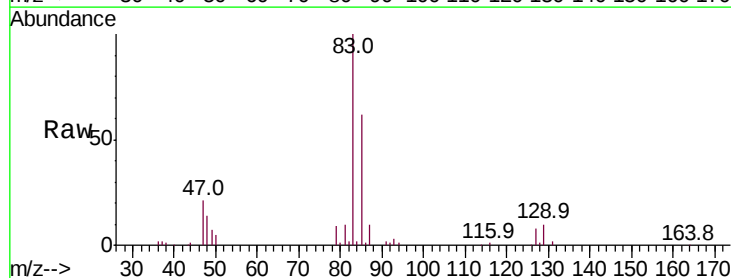
Delta R.T. -0.00 min

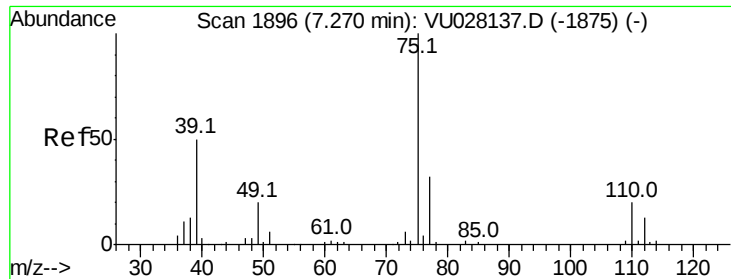
Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Tgt Ion: 83 Resp: 64241

Ion	Ratio	Lower	Upper
83	100		
85	61.9	44.5	82.7
127	7.6	6.8	10.2

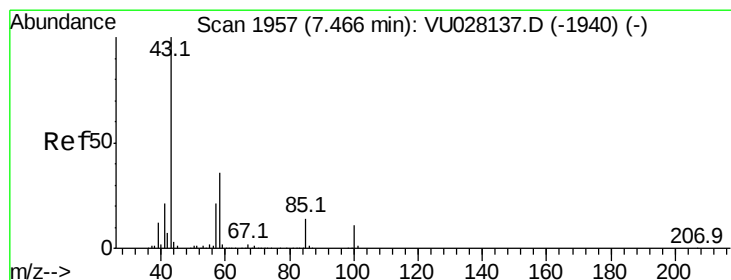
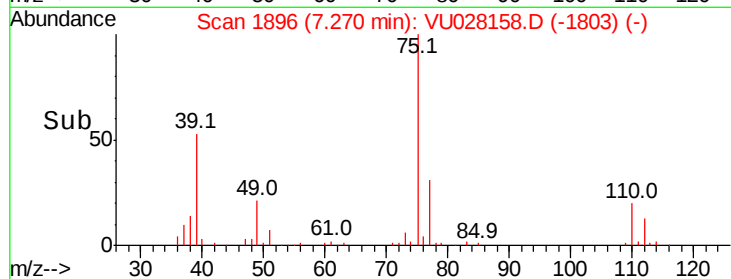
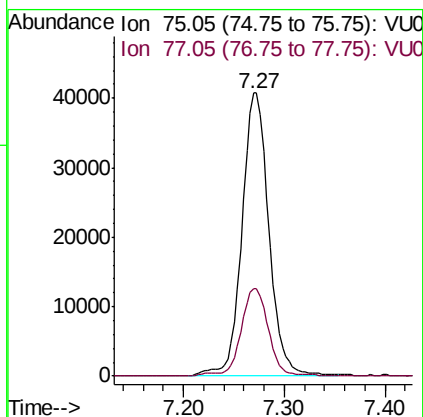
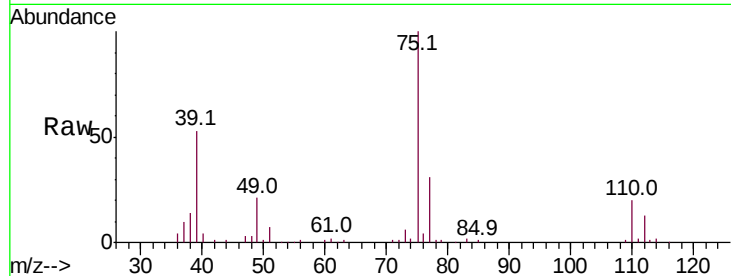




#39
 cis-1,3-Dichloropropene
 Concen: 4.554 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

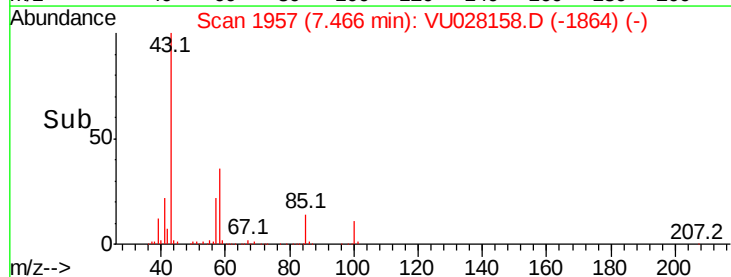
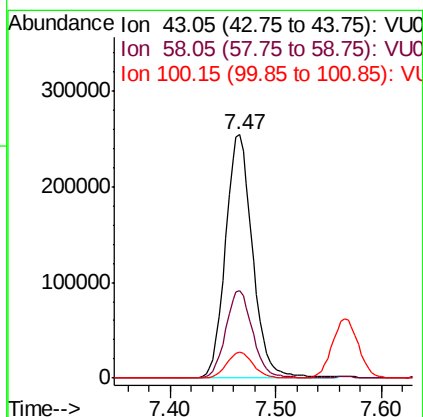
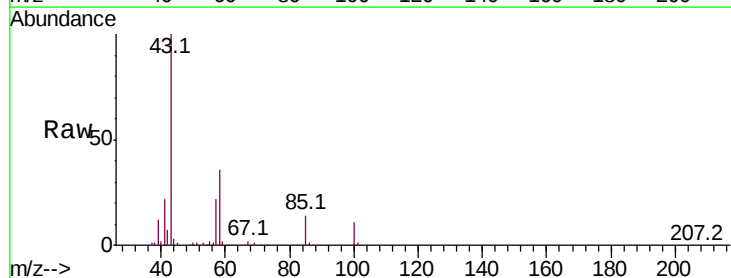
Instrument :
 MSVOA_U
 ClientSampleId :

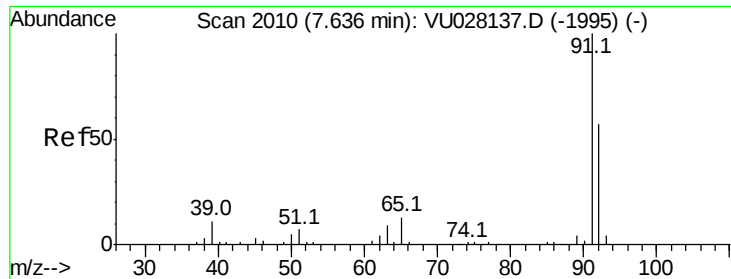
Tot Ion: 75 Resp: 75285
 Ion Ratio Lower Upper
 75 100
 77 31.0 20.9 38.9



#40
 4-Methyl-2-pentanone
 Concen: 53.494 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Tgt Ion: 43 Resp: 450455
 Ion Ratio Lower Upper
 43 100
 58 35.9 29.9 44.9
 100 10.6 9.1 13.7





#42

Toluene

Concen: 5.004 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

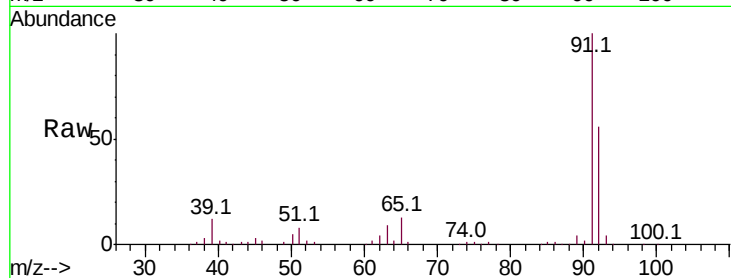
ClientSampleId :

Tot Ion: 91 Resp: 228156

Ion Ratio Lower Upper

91 100

92 56.1 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

150000

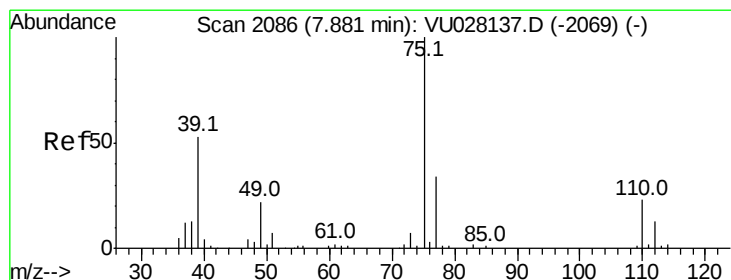
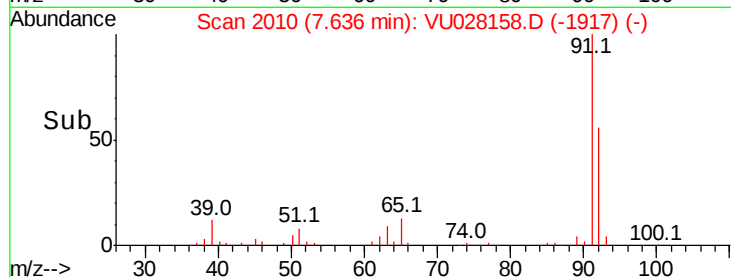
7.64

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.517 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU028158.D

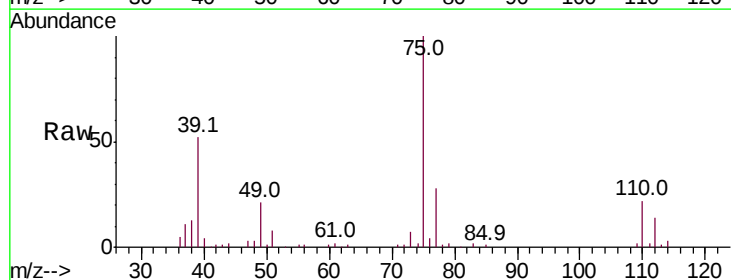
Acq: 15 Nov 2018 06:51

Tgt Ion: 75 Resp: 58515

Ion Ratio Lower Upper

75 100

77 28.3 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

40000

7.88

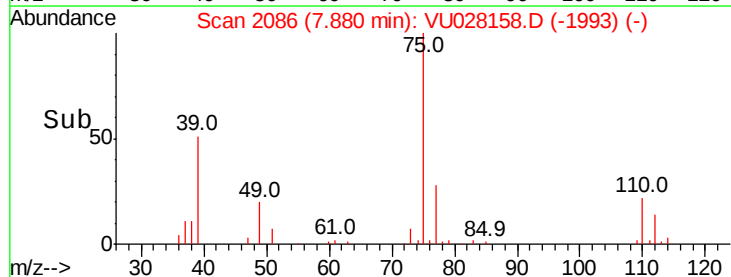
30000

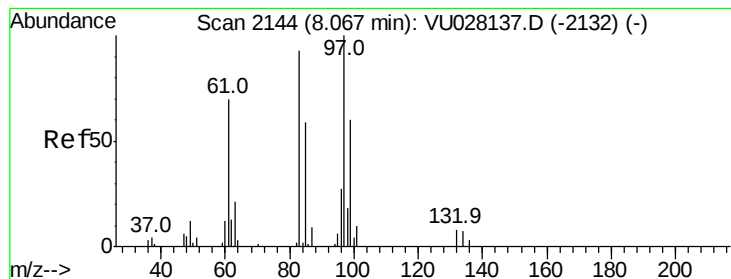
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.059 ug/L

RT: 8.07 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 37345

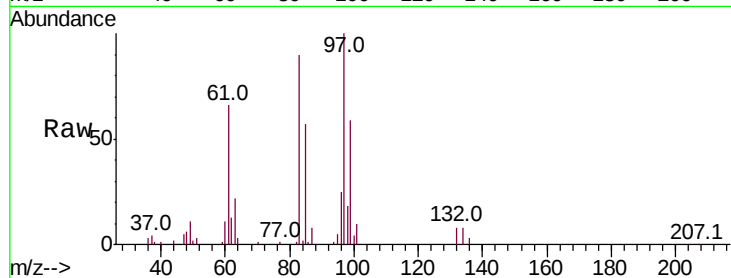
Ion Ratio Lower Upper

97 100

99 59.2 42.1 78.1

83 89.7 63.7 118.3

85 57.1 40.6 75.4



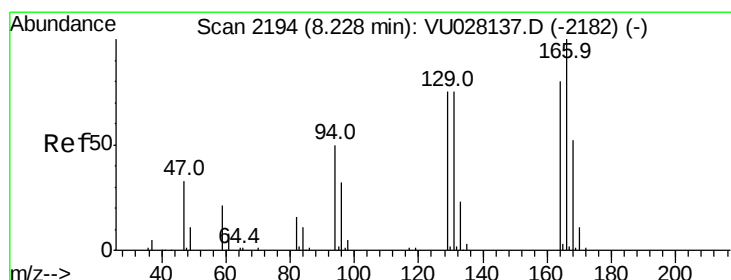
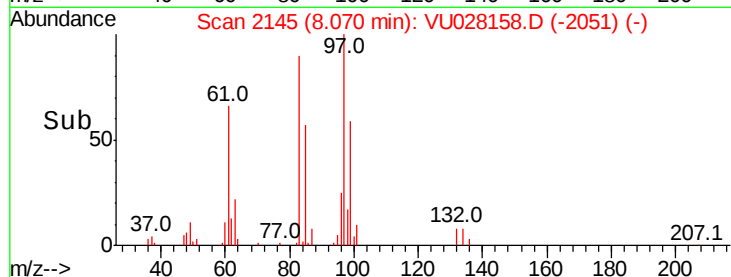
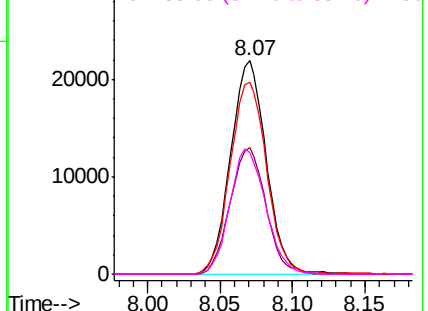
Abundance

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: 4.272 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Tgt Ion:164 Resp: 37958

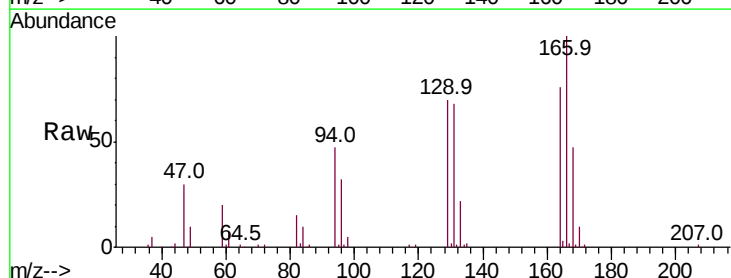
Ion Ratio Lower Upper

164 100

129 93.2 69.7 129.4

131 89.6 64.0 118.8

166 132.2 86.4 160.4



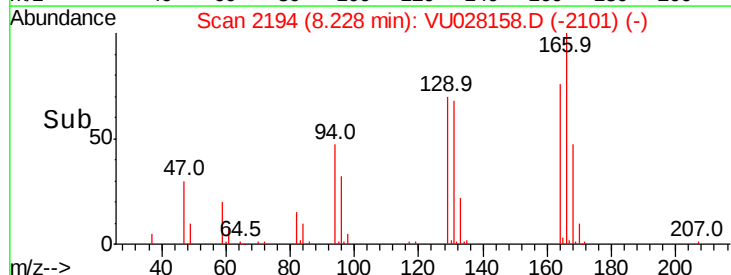
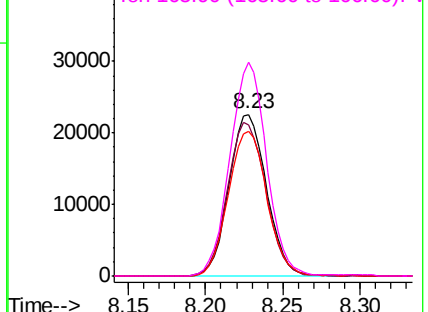
Abundance

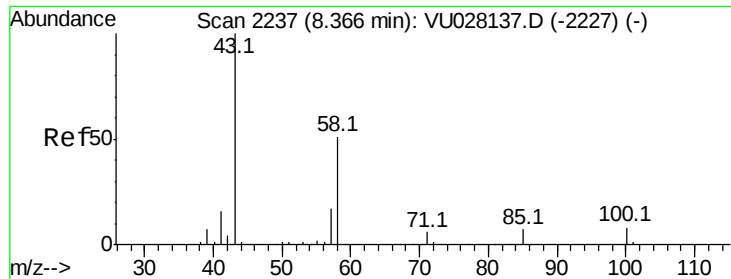
Ion 163.90 (163.60 to 164.60): V

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

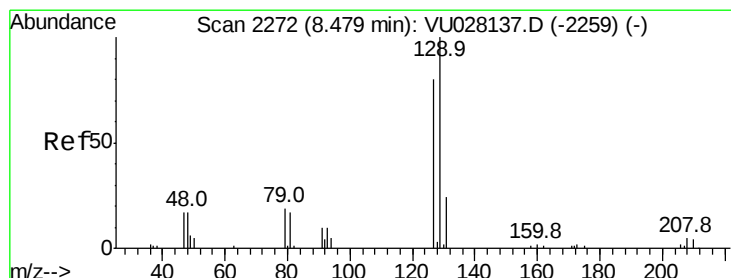
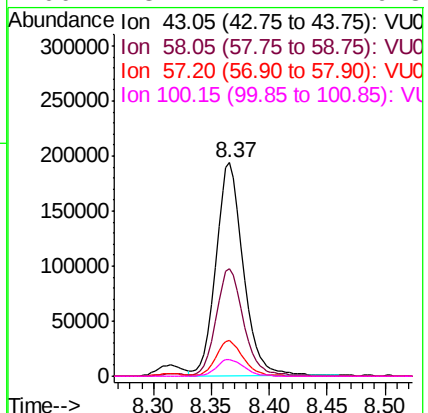
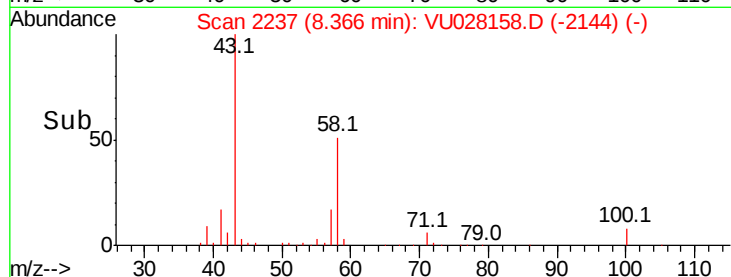
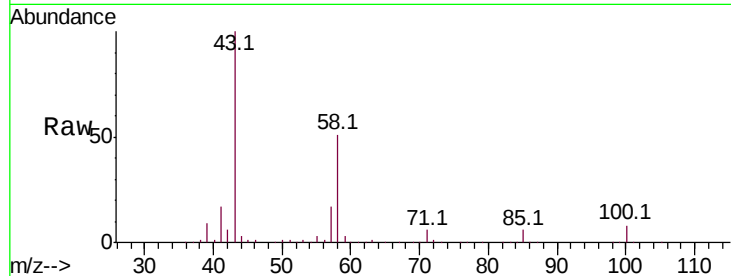




#48
2-Hexanone
Concen: 53.499 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VU028158.D
Acq: 15 Nov 2018 06:51

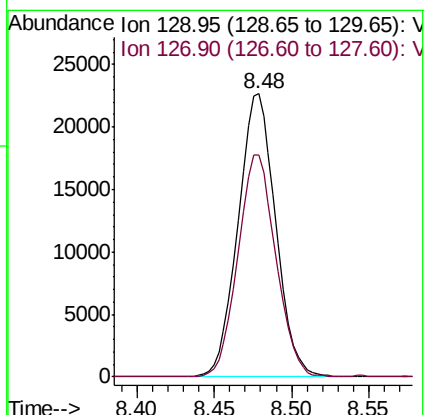
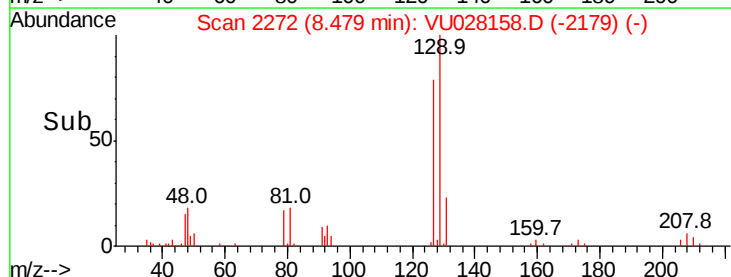
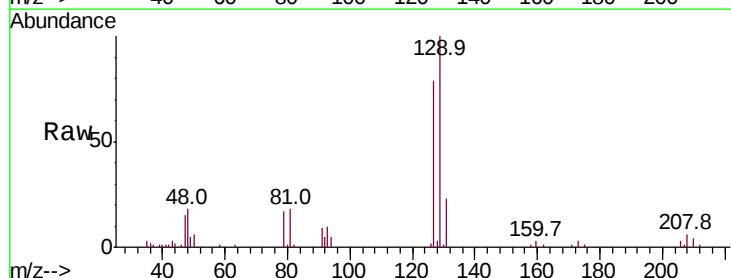
Instrument :
MSVOA_U
ClientSampled :

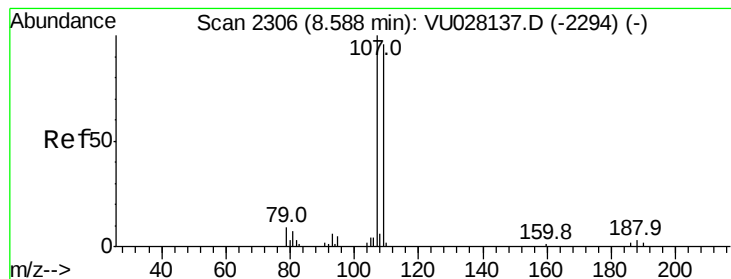
Tot Ion: 43 Resp: 320549
Ion Ratio Lower Upper
43 100
58 50.5 41.7 62.5
57 16.7 14.0 21.0
100 8.1 7.2 10.8



#49
Dibromochloromethane
Concen: 4.860 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028158.D
Acq: 15 Nov 2018 06:51

Tgt Ion: 129 Resp: 38199
Ion Ratio Lower Upper
129 100
127 78.6 54.1 100.5





#50

1,2-Dibromoethane

Concen: 5.012 ug/L

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :
MSVOA_U
ClientSampleId :

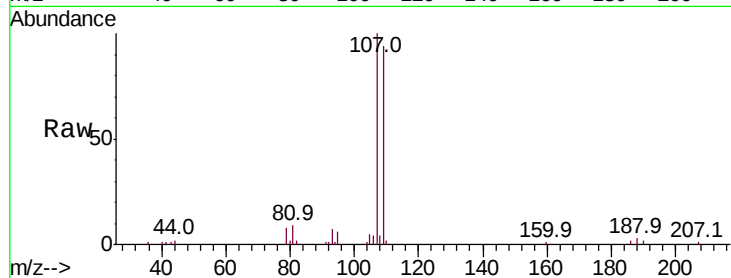
Tot Ion:107 Resp: 34835

Ion Ratio Lower Upper

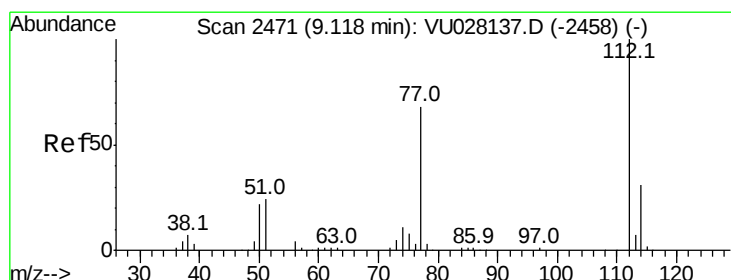
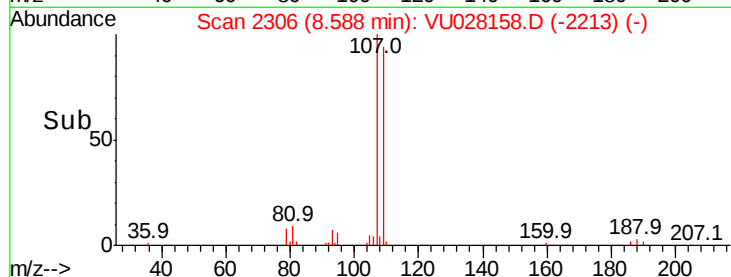
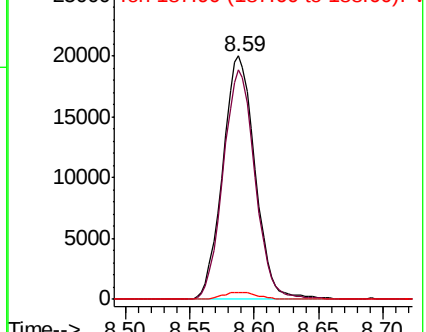
107 100

109 94.3 66.6 123.8

188 3.0 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: 4.888 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

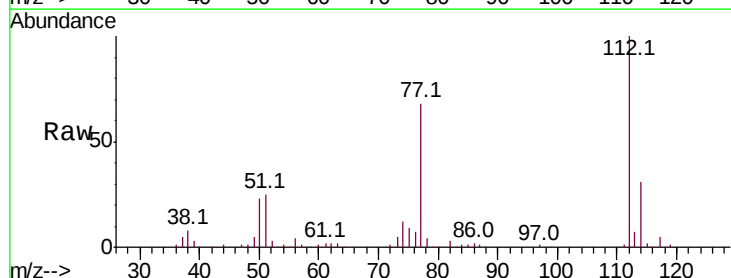
Tgt Ion:112 Resp: 130302

Ion Ratio Lower Upper

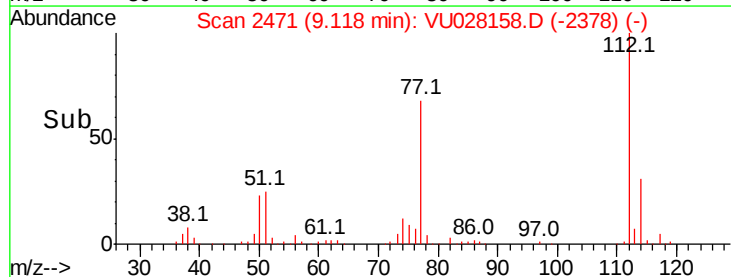
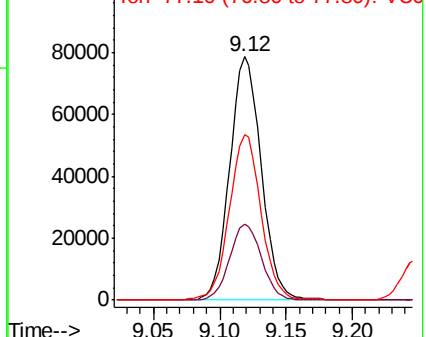
112 100

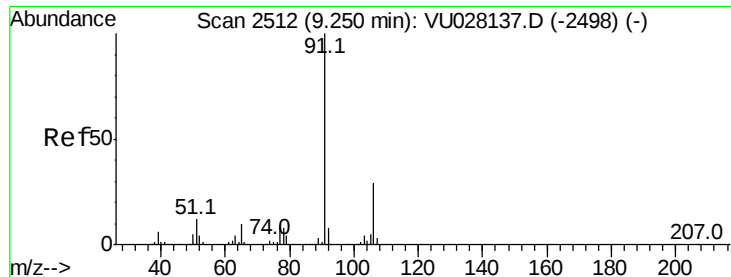
114 30.9 22.5 41.7

77 68.1 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: 4.999 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

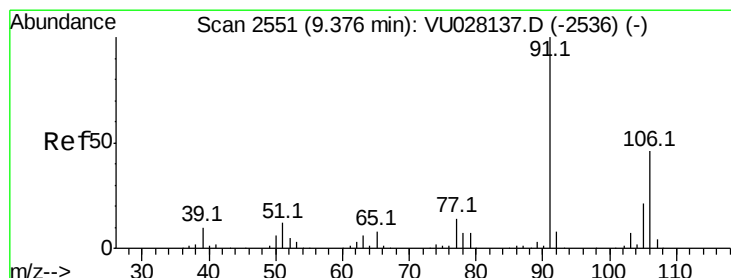
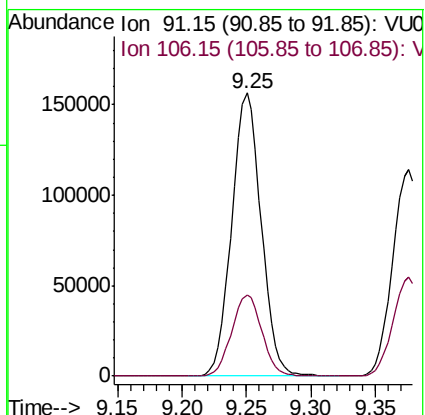
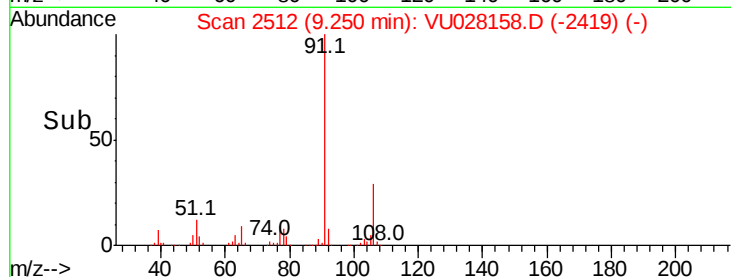
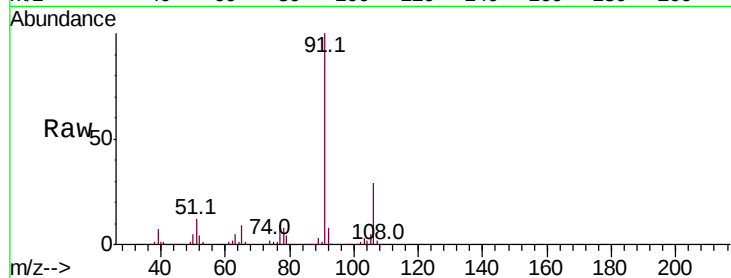
ClientSampled :

Tot Ion: 91 Resp: 248749

Ion Ratio Lower Upper

91 100

106 28.7 20.9 38.7



#53

m,p-xylene

Concen: 4.954 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU028158.D

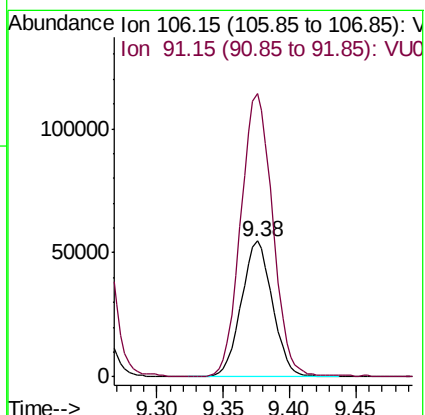
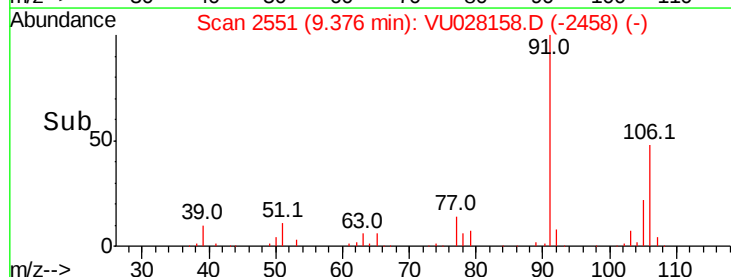
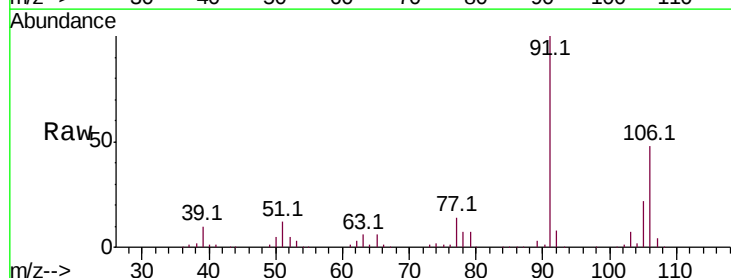
Acq: 15 Nov 2018 06:51

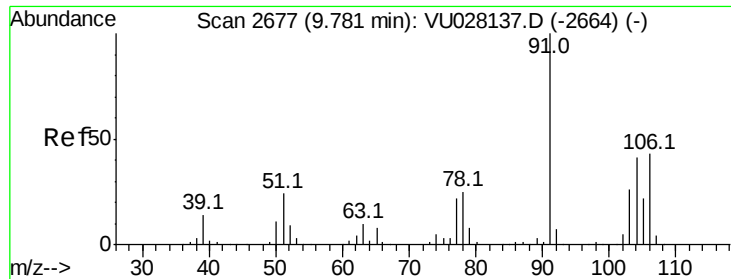
Tgt Ion:106 Resp: 89825

Ion Ratio Lower Upper

106 100

91 208.2 145.7 270.7





#54

o-xylene

Concen: 4.918 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

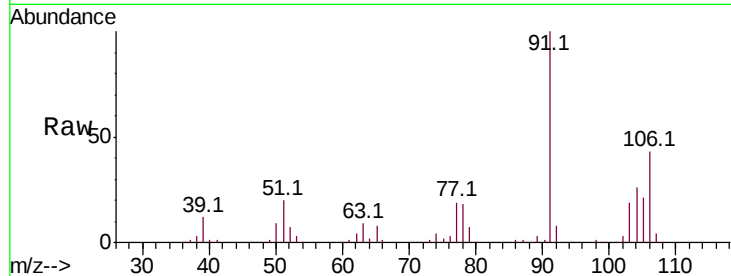
ClientSampleId :

Tot Ion:106 Resp: 85839

Ion Ratio Lower Upper

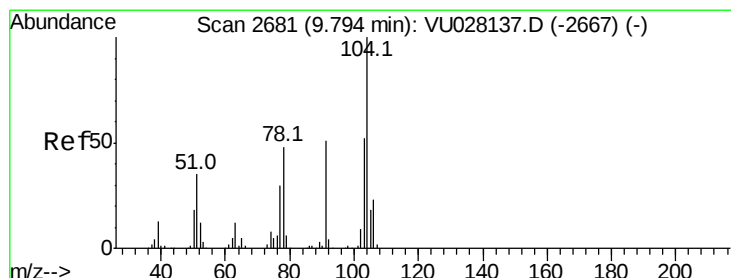
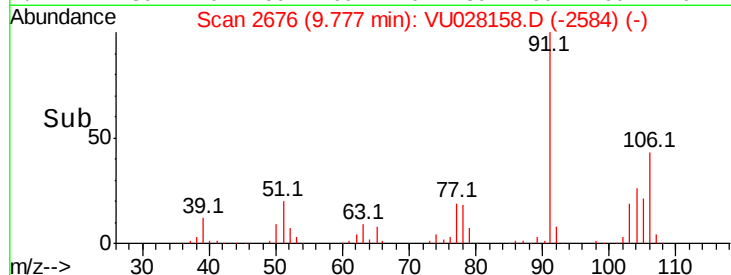
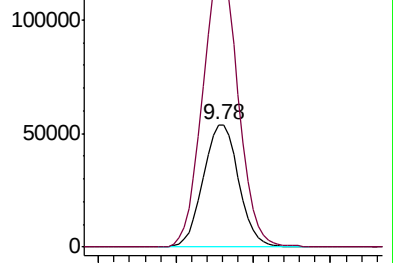
106 100

91 231.2 158.7 294.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.942 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU028158.D

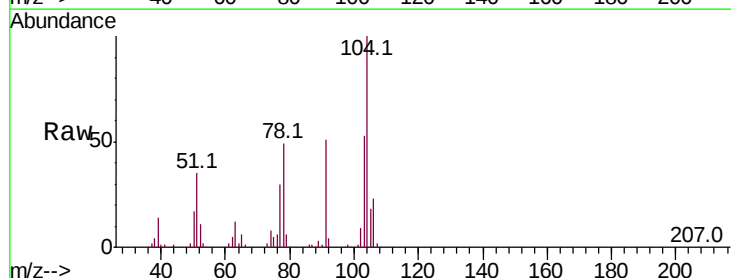
Acq: 15 Nov 2018 06:51

Tgt Ion:104 Resp: 145890

Ion Ratio Lower Upper

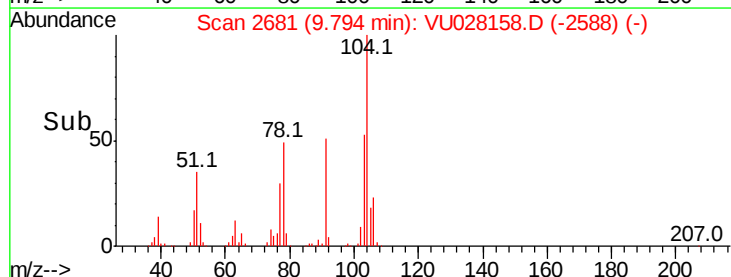
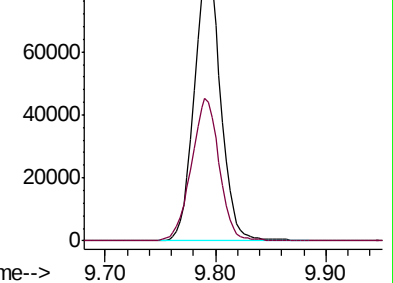
104 100

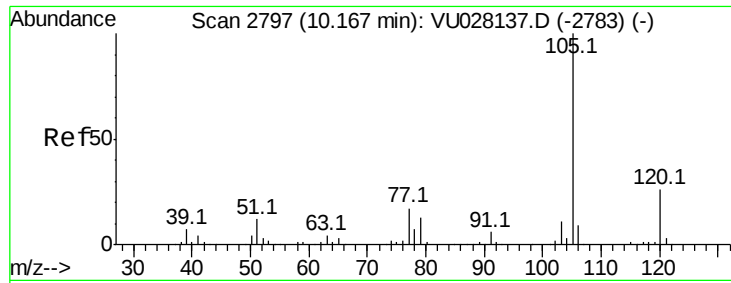
78 49.1 34.5 64.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.942 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

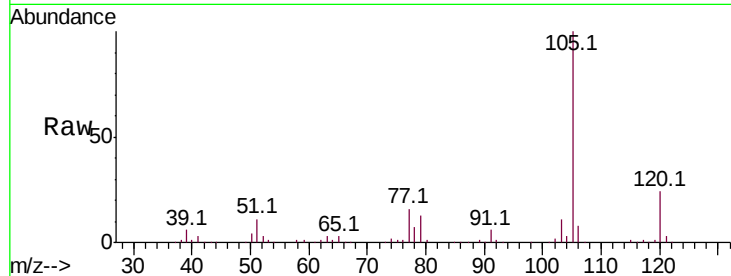
Tot Ion:105 Resp: 233316

Ion Ratio Lower Upper

105 100

120 24.5 20.5 30.7

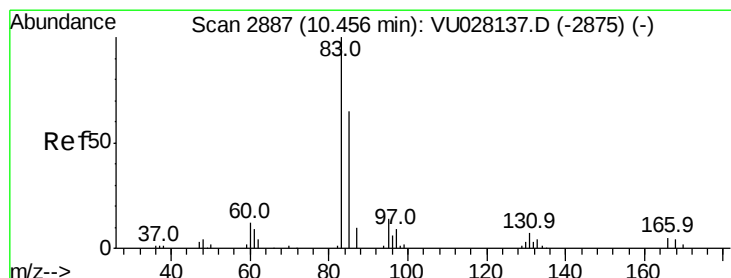
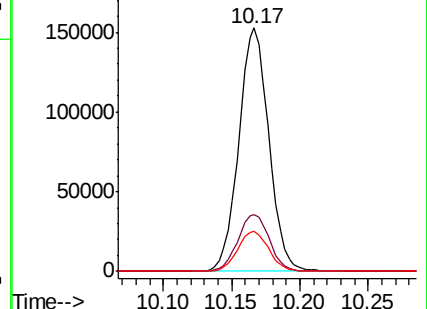
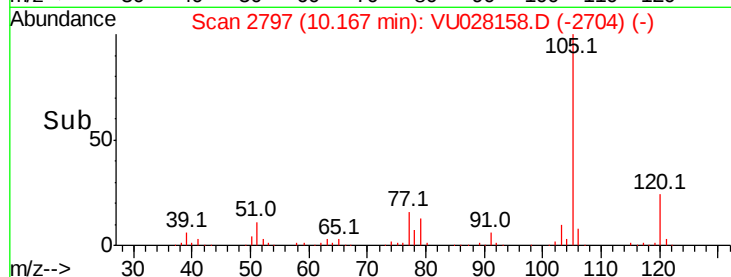
77 17.1 13.3 19.9



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: 5.150 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

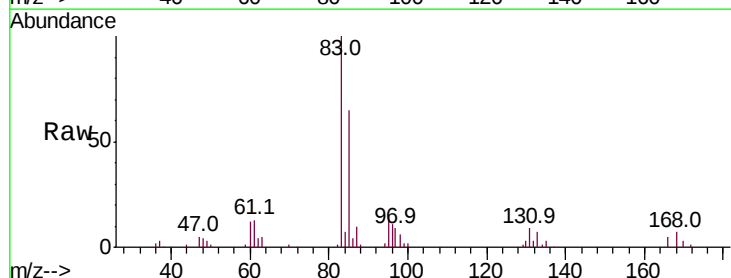
Tgt Ion: 83 Resp: 49010

Ion Ratio Lower Upper

83 100

85 65.2 46.7 86.7

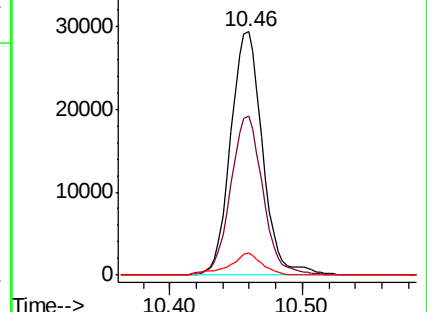
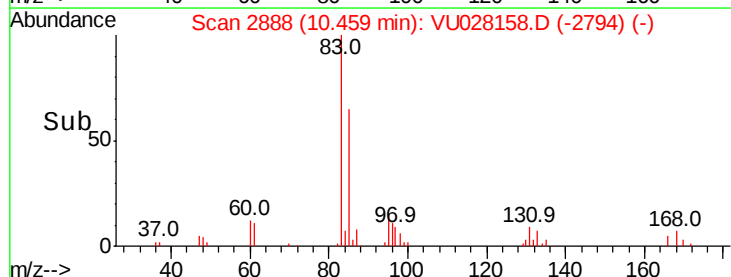
131 9.1 5.9 8.9#

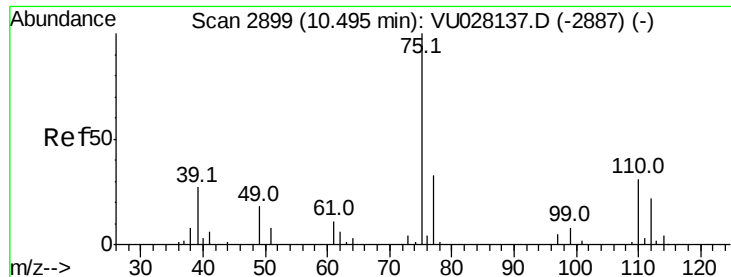


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

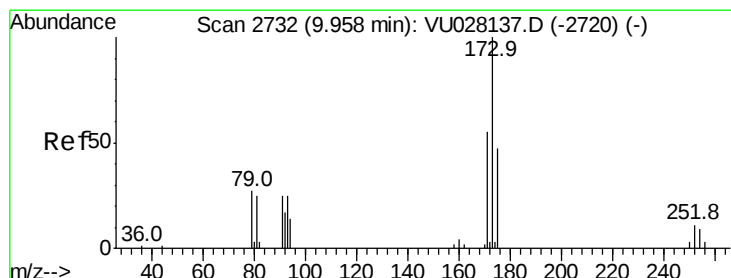
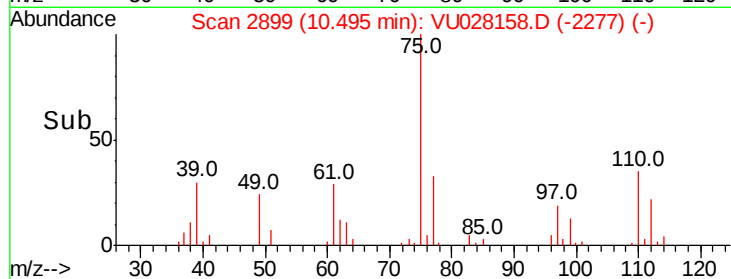
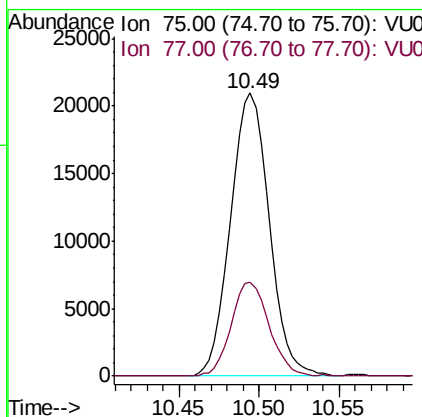
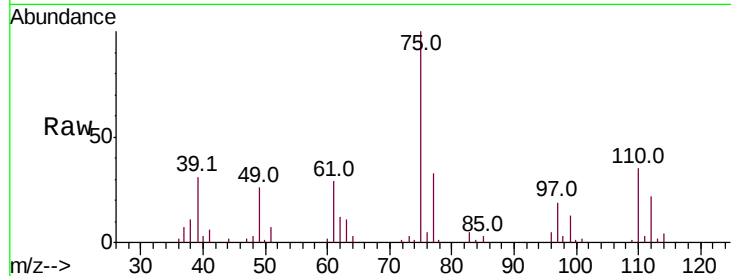




#59
 1,2,3-Trichloropropane
 Concen: 5.028 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

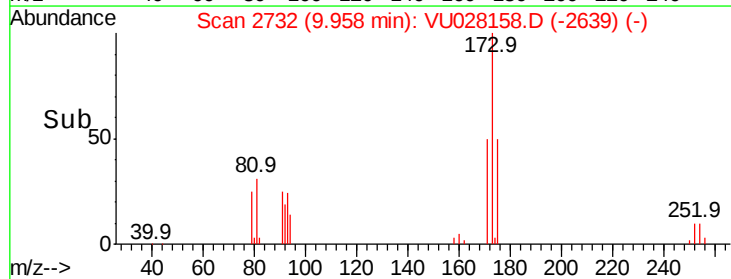
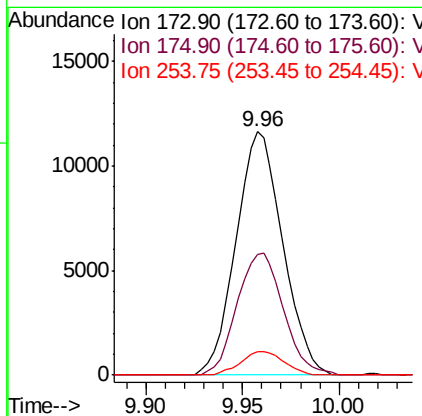
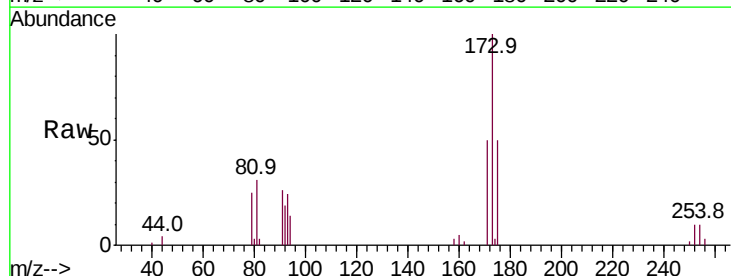
Instrument :
 MSVOA_U
 ClientSampleId :

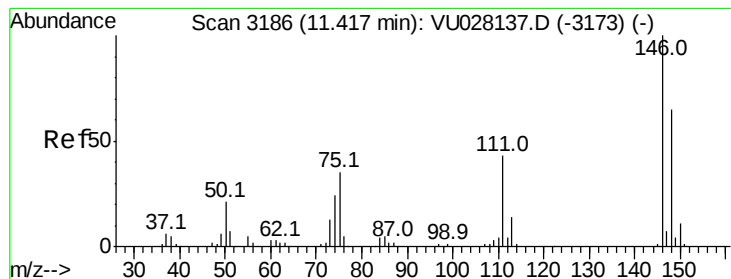
Tot Ion: 75 Resp: 34532
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.4 38.0



#61
 Bromoform
 Concen: 4.593 ug/L
 RT: 9.96 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Tgt Ion:173 Resp: 19498
 Ion Ratio Lower Upper
 173 100
 175 49.7 38.2 57.2
 254 9.0 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 4.954 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

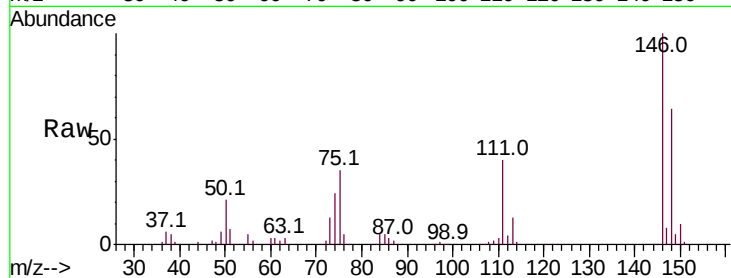
Tot Ion:146 Resp: 98342

Ion Ratio Lower Upper

146 100

111 40.2 29.3 54.3

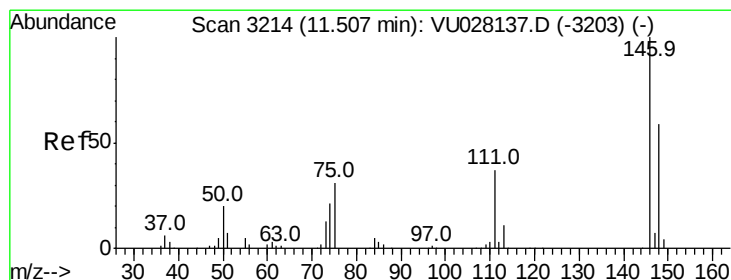
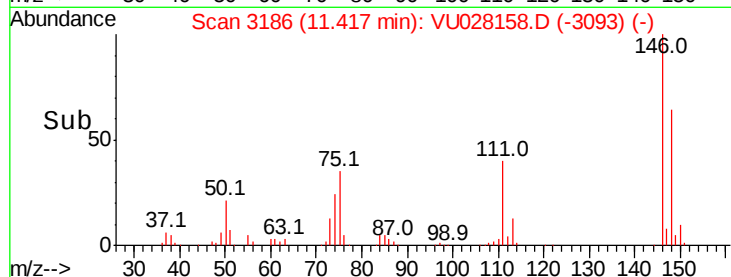
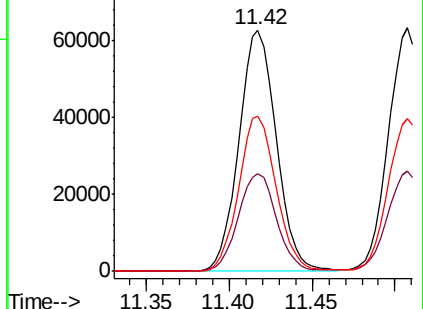
148 64.5 44.1 81.9



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: 4.969 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

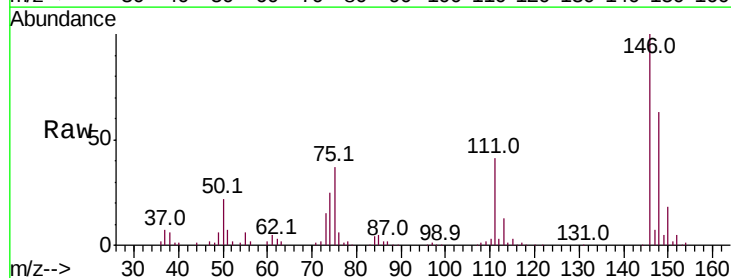
Tgt Ion:146 Resp: 99844

Ion Ratio Lower Upper

146 100

111 41.3 27.4 51.0

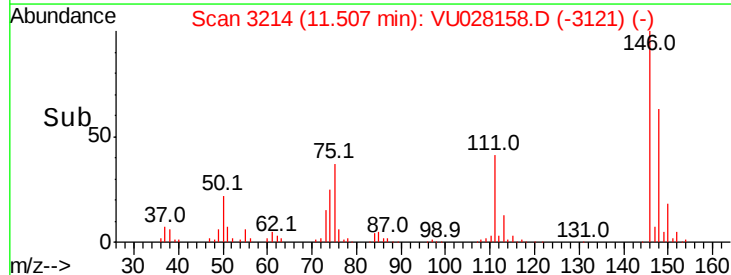
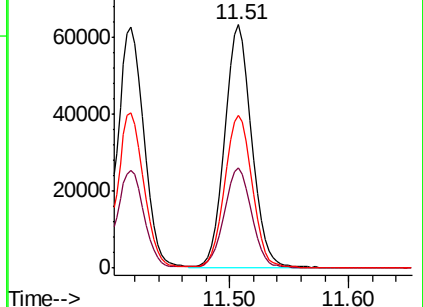
148 62.7 43.8 81.3

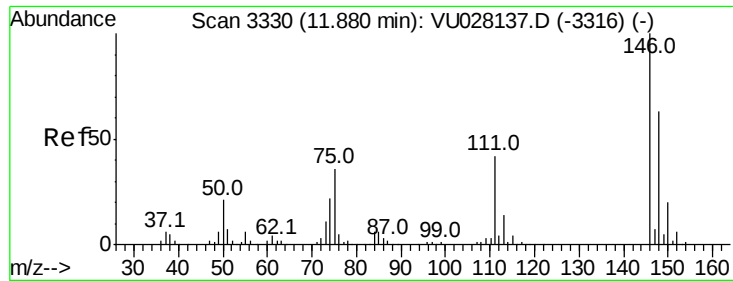


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.983 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

Instrument :

MSVOA_U

ClientSampleId :

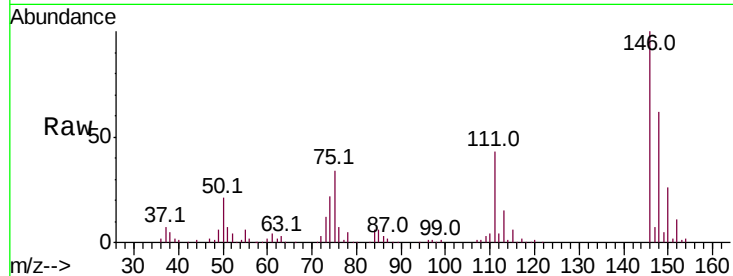
Tot Ion:146 Resp: 94595

Ion Ratio Lower Upper

146 100

111 42.6 33.9 50.9

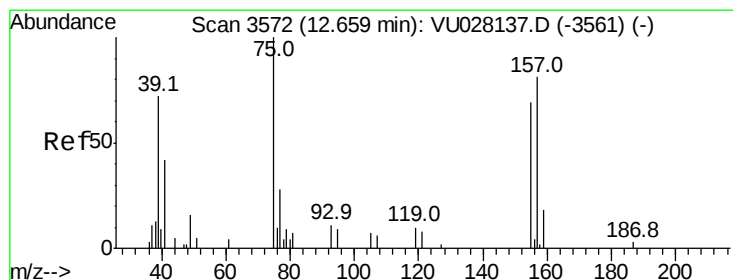
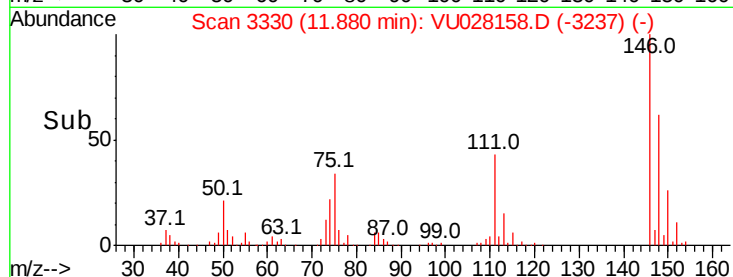
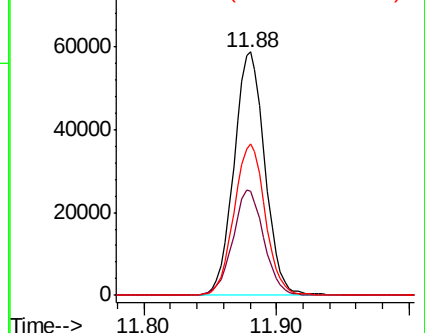
148 62.4 50.9 76.3



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: 5.084 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU028158.D

Acq: 15 Nov 2018 06:51

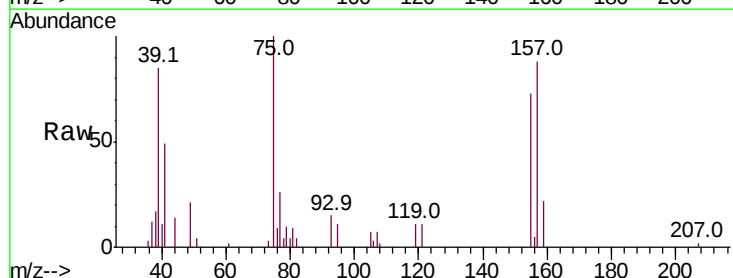
Tgt Ion: 75 Resp: 7003

Ion Ratio Lower Upper

75 100

155 72.6 62.8 94.2

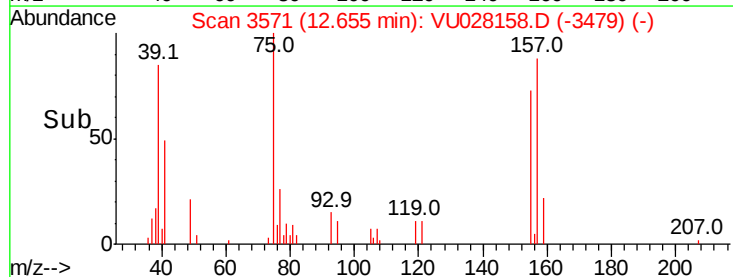
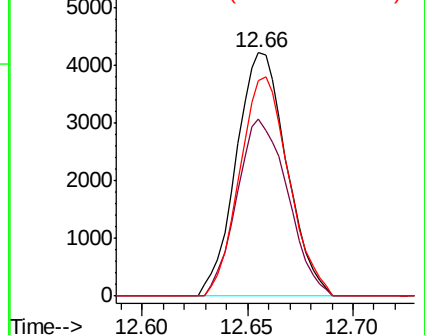
157 88.5 85.3 127.9

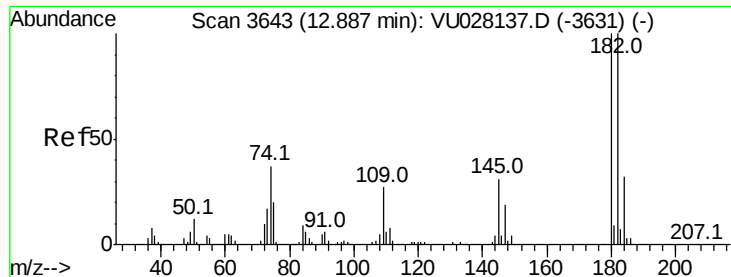


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

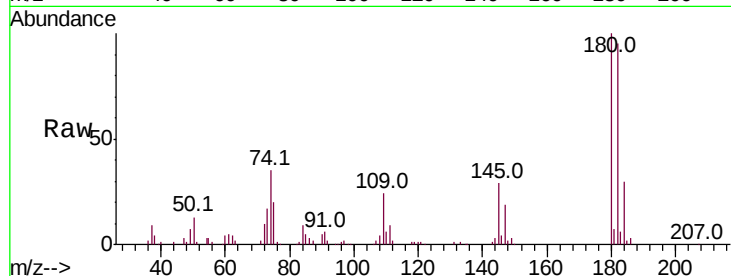




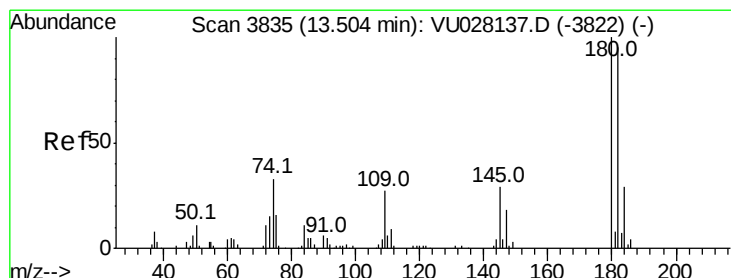
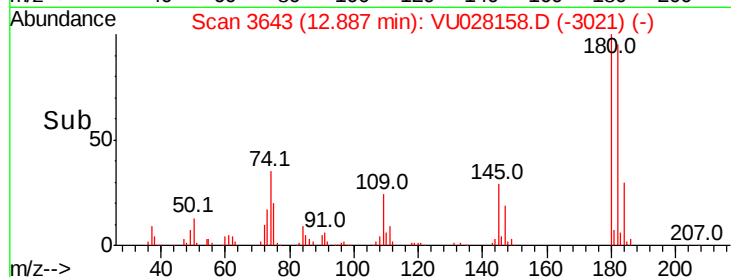
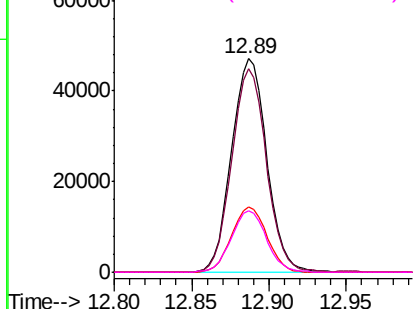
#67
 1,3,5-Trichlorobenzene
 Concen: 4.883 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 74359
 Ion Ratio Lower Upper
 180 100
 182 93.7 76.6 114.8
 184 30.4 24.7 37.1
 145 28.8 24.0 36.0

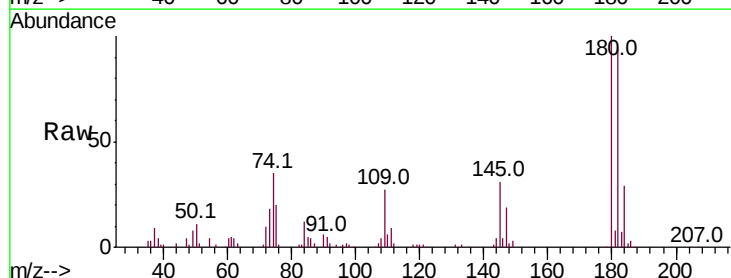


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

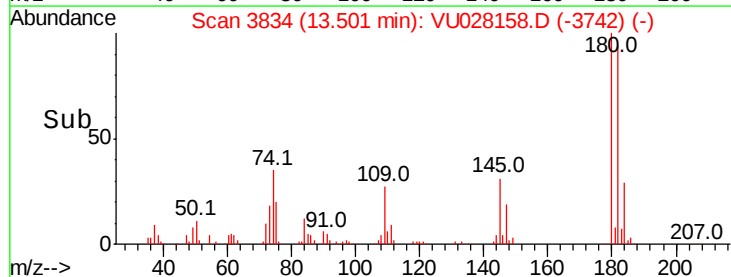
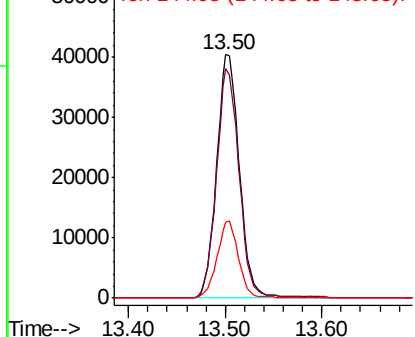


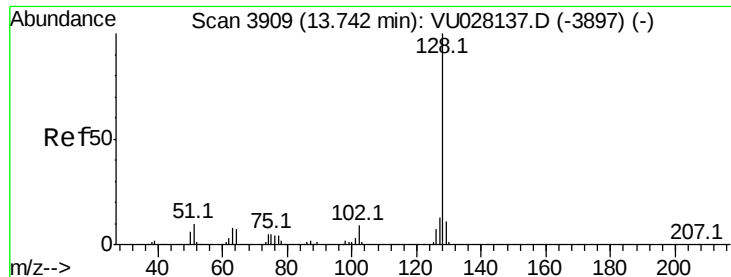
#68
 1,2,4-trichlorobenzene
 Concen: 4.987 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028158.D
 Acq: 15 Nov 2018 06:51

Tgt Ion:180 Resp: 66191
 Ion Ratio Lower Upper
 180 100
 182 93.0 75.1 112.7
 145 29.6 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

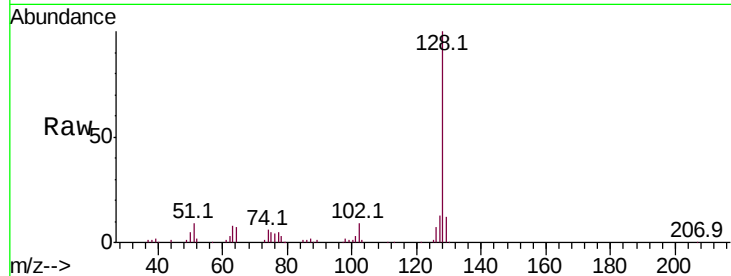




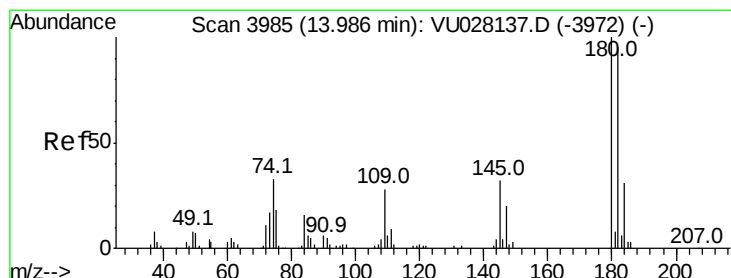
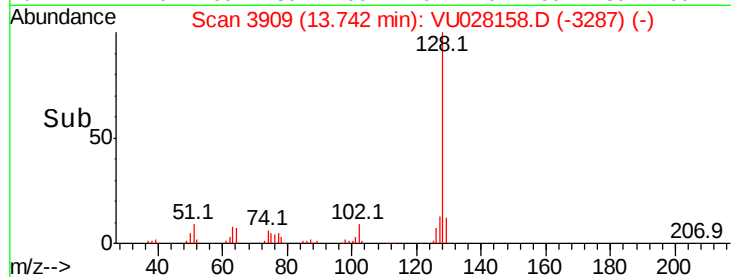
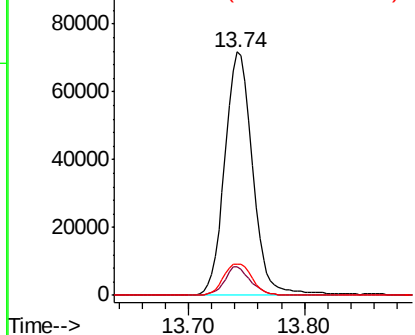
#69
Naphthalene
Concen: 4.830 ug/L
RT: 13.74 min Scan# 3909
Delta R.T. -0.00 min
Lab File: VU028158.D
Acq: 15 Nov 2018 06:51

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 119488
Ion Ratio Lower Upper
128 100
129 10.8 8.5 12.7
127 13.3 10.2 15.4

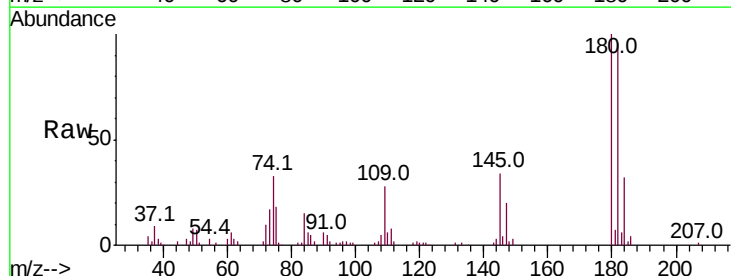


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70
1,2,3-Trichlorobenzene
Concen: 4.901 ug/L
RT: 13.99 min Scan# 3985
Delta R.T. -0.00 min
Lab File: VU028158.D
Acq: 15 Nov 2018 06:51

Tgt Ion:180 Resp: 59927
Ion Ratio Lower Upper
180 100
182 96.2 77.6 116.4
145 33.7 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

