

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122820\
 Data File : VU041826.D
 Acq On : 28 Dec 2020 14:16
 Operator : SY/MD
 Sample : L5175-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2T92

Quant Time: Dec 29 08:39:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR122820WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Dec 29 01:00:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	155547	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	153153	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	72952	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	63552	5.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.20%
7) Chloroethane-d5	1.92	69	57354	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.57	65	29216	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.20%
20) 2-Butanone-d5	4.66	46	196160	56.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.68%
24) Chloroform-d	5.08	84	119529	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
26) 1,2-Dichloroethane-d4	5.71	65	62877	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
32) Benzene-d6	5.74	84	223717	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.70	67	63494	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.20%
41) Toluene-d8	7.90	98	183889	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	8.18	79	27180	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
46) 2-Hexanone-d5	8.64	63	149174	48.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.16%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	60205	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
66) 1,2-Dichlorobenzene-d4	12.19	152	72141	5.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	96078	6.748	ug/L	98
5) Vinyl chloride	1.61	62	216684	13.661	ug/L	99
12) 1,1-Dichloroethene	2.59	96	54294	4.436	ug/L	94
18) trans-1,2-Dichloroethene	3.37	96	27921	2.358	ug/L	97
19) 1,1-Dichloroethane	3.88	63	34284	1.631	ug/L	96
25) Chloroform	5.10	83	142831	6.730	ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	41832	2.284	ug/L	98
34) Trichloroethene	6.55	95	38252	3.205	ug/L	98
37) 1,2-Dichloropropane	6.80	63	89808	7.917	ug/L	100
38) Bromodichloromethane	7.11	83	46734	3.137	ug/L	99
47) Tetrachloroethene	8.56	164	37983	4.071	ug/L	98
49) Dibromochloromethane	8.81	129	115941	10.493	ug/L	97
50) 1,2-Dibromoethane	8.92	107	59396	6.531	ug/L	98
51) Chlorobenzene	9.45	112	602547	19.079	ug/L	98
59) Bromoform	10.29	173	108575	17.273	ug/L	98
65) 1,4-Dichlorobenzene	11.83	146	191459	8.534	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.99	75	20385	10.813	ug/L	94

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Response via : Initial Calibration

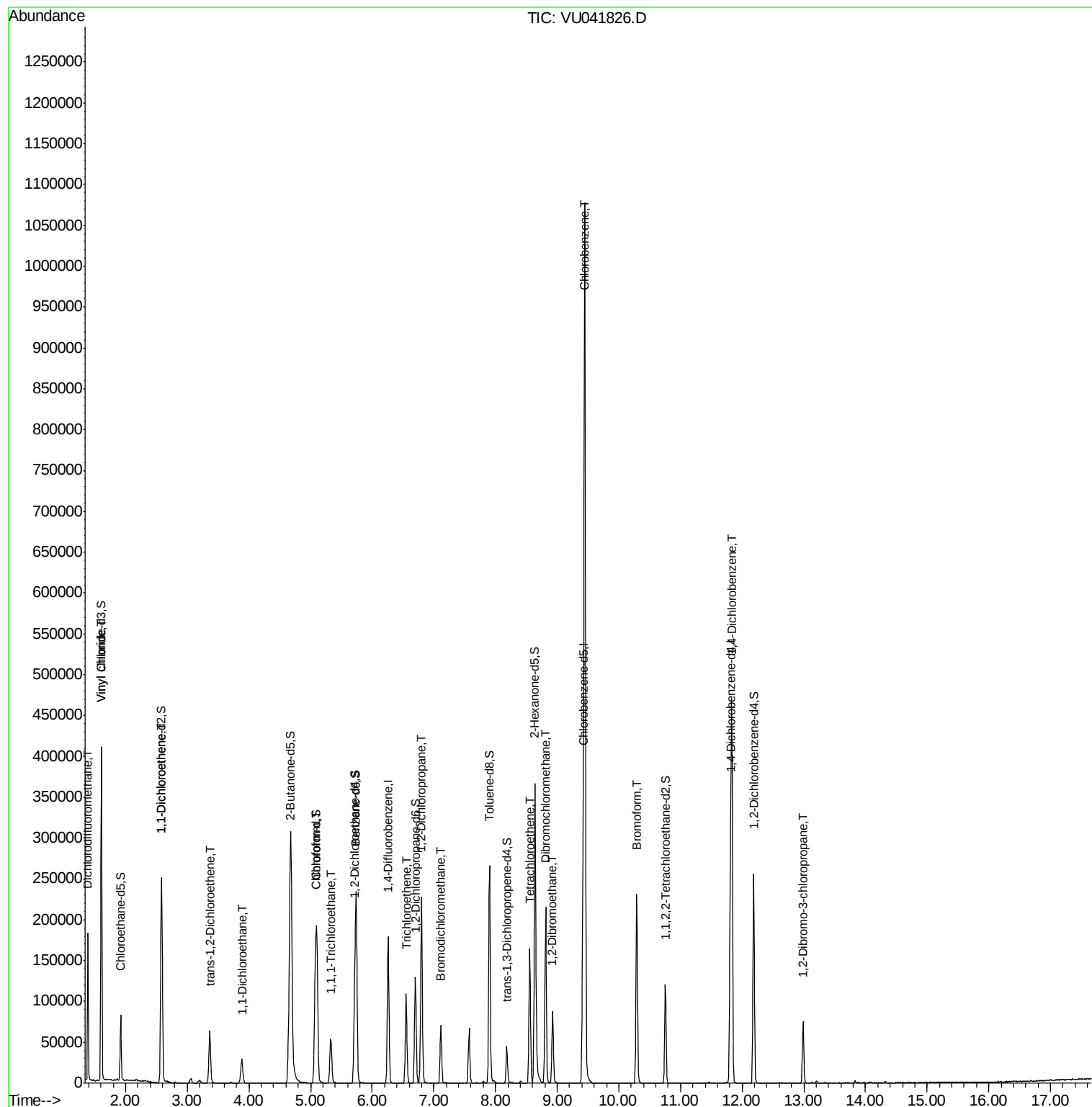
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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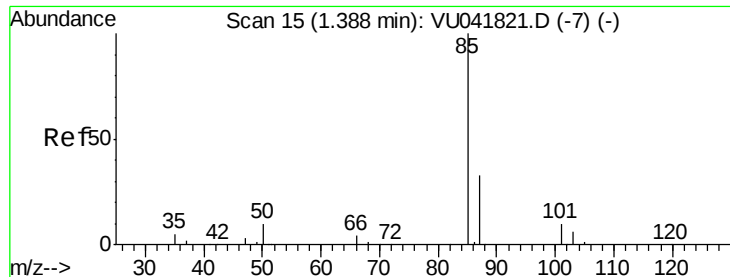
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 6.748 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

Instrument :

MSVOA_U

ClientSampleId :

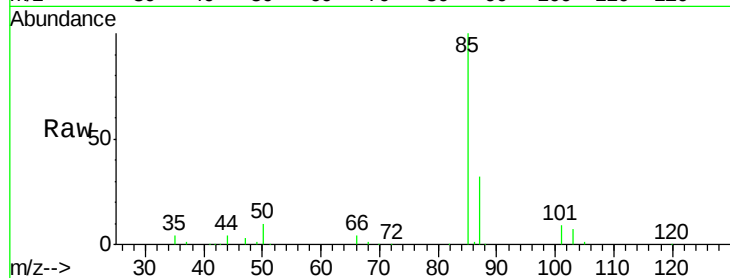
X2T92

Tot Ion: 85 Resp: 96078

Ion Ratio Lower Upper

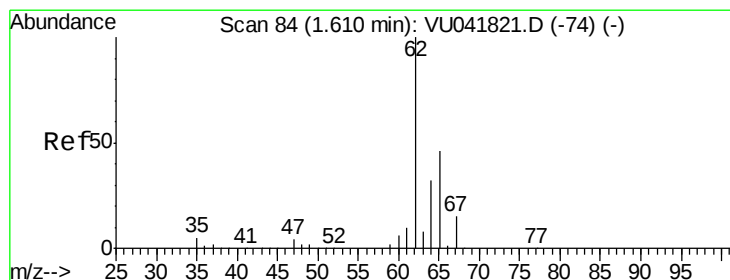
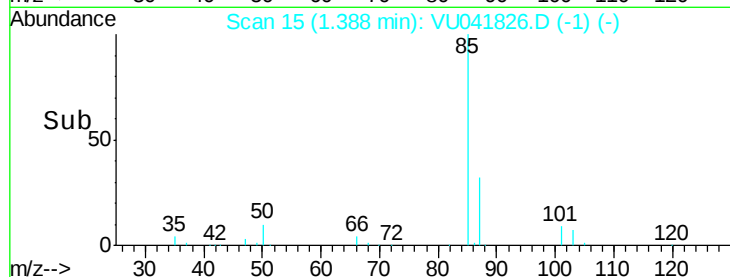
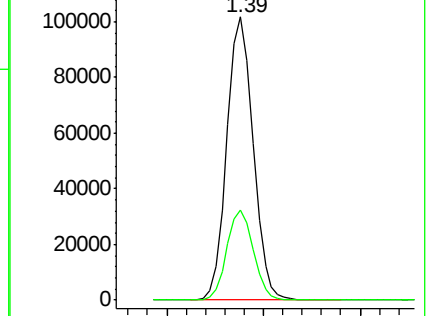
85 100

87 32.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#5

Vinyl chloride

Concen: 13.661 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041826.D

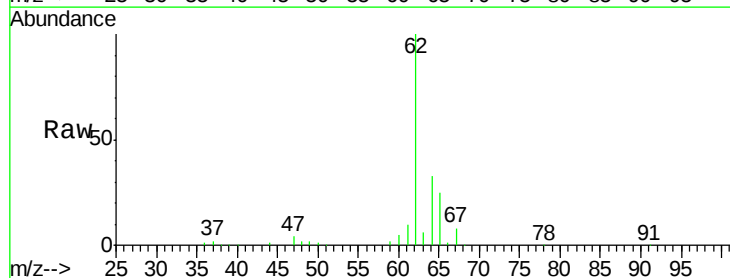
Acq: 28 Dec 2020 14:16

Tgt Ion: 62 Resp: 216684

Ion Ratio Lower Upper

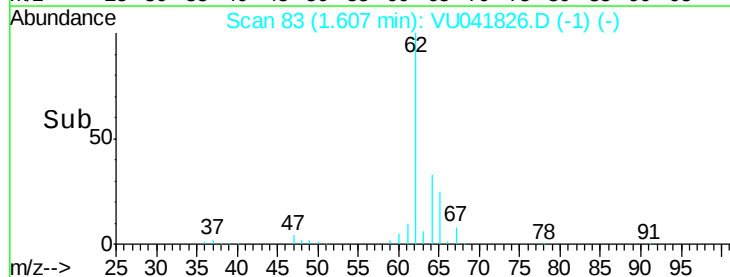
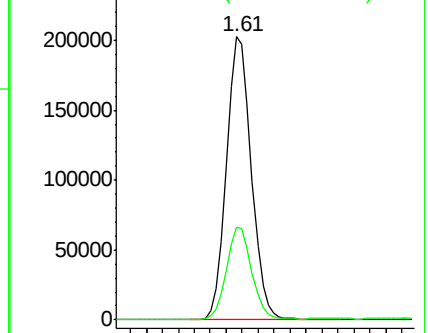
62 100

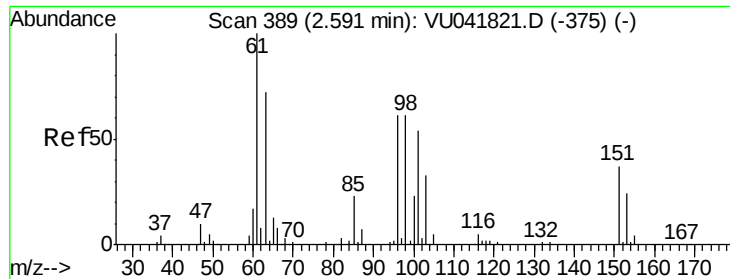
64 32.9 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#12

1,1-Dichloroethene

Concen: 4.436 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

Instrument :

MSVOA_U

ClientSampleId :

X2T92

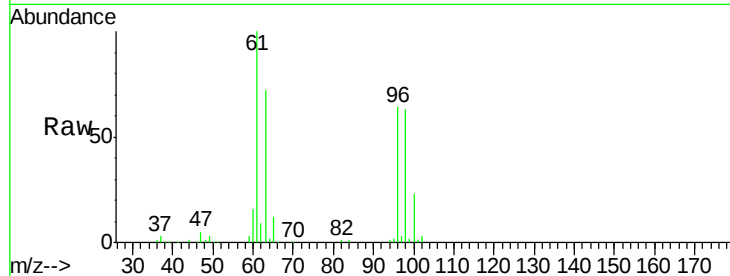
Tot Ion: 96 Resp: 54294

Ion Ratio Lower Upper

96 100

61 157.3 115.1 213.7

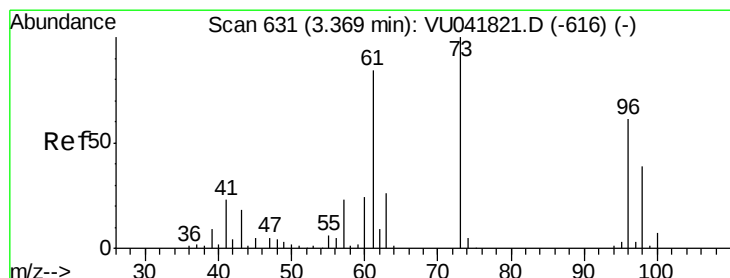
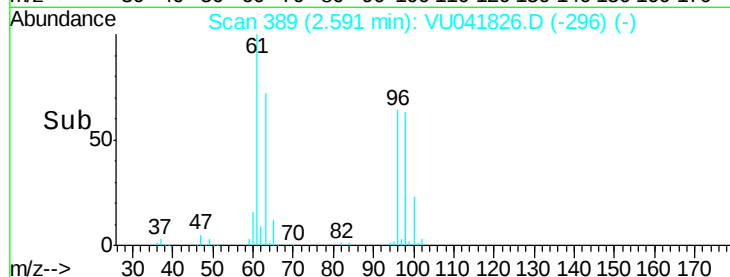
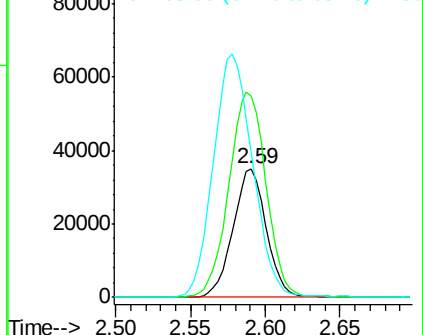
63 113.2 84.1 156.1



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



#18

trans-1,2-Dichloroethene

Concen: 2.358 ug/L

RT: 3.37 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

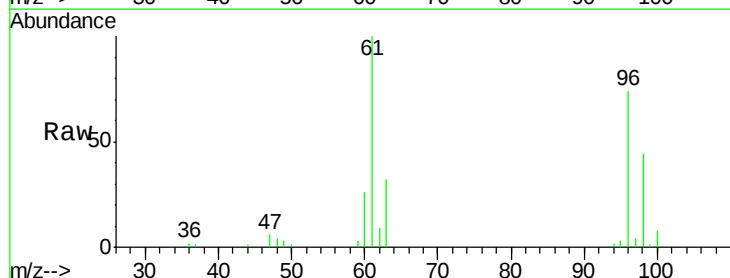
Tgt Ion: 96 Resp: 27921

Ion Ratio Lower Upper

96 100

61 135.2 96.6 179.4

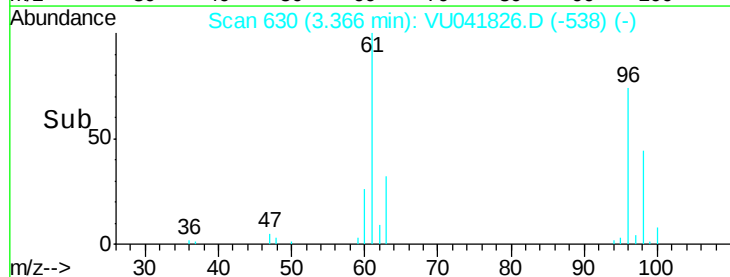
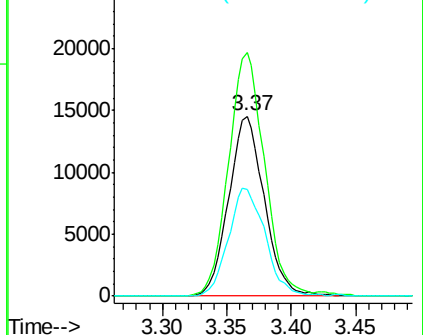
98 59.4 44.7 82.9

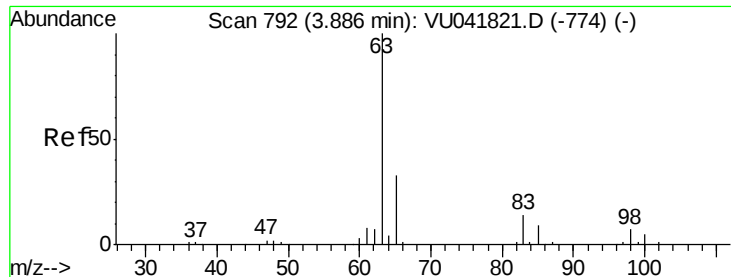


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

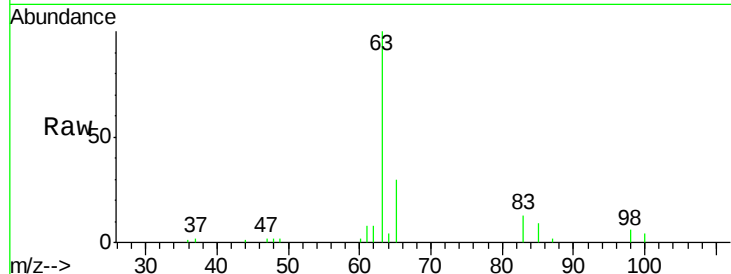




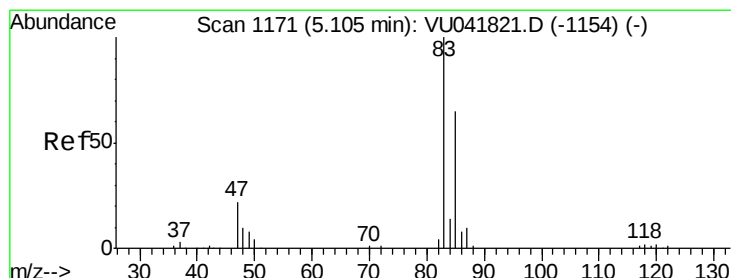
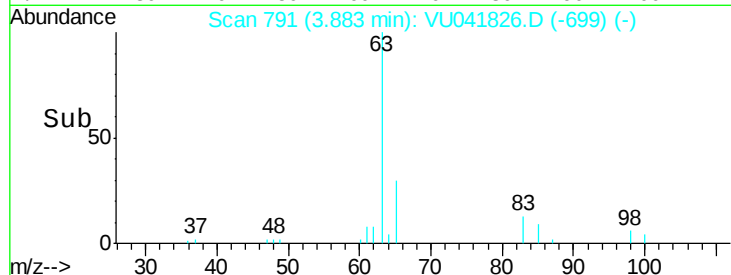
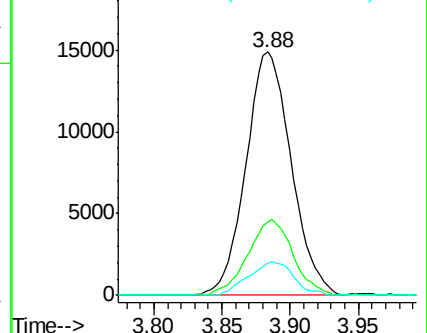
#19
 1,1-Dichloroethane
 Concen: 1.631 ug/L
 RT: 3.88 min Scan# 791
 Delta R.T. -0.00 min
 Lab File: VU041826.D
 Acq: 28 Dec 2020 14:16

Instrument :
 MSVOA_U
 ClientSampleId :
 X2T92

Tot Ion: 63 Resp: 34284
 Ion Ratio Lower Upper
 63 100
 65 30.3 23.2 43.0
 83 13.1 9.9 18.3

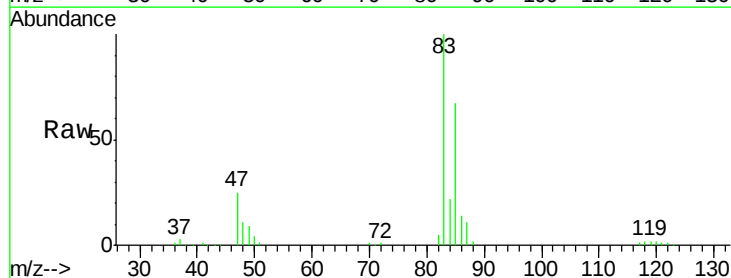


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

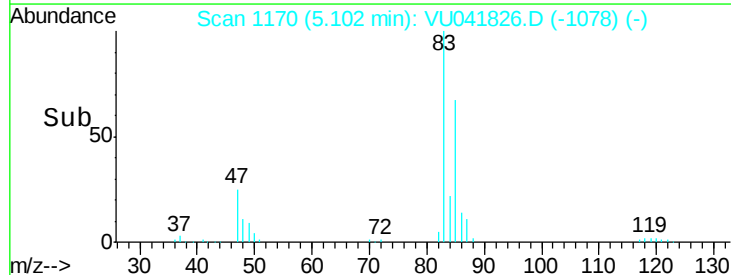
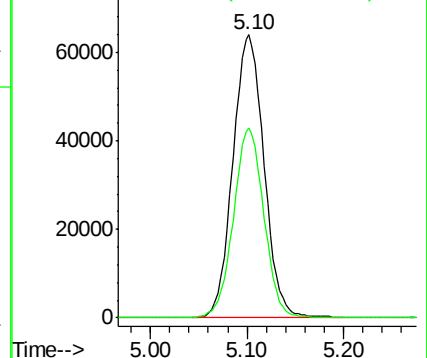


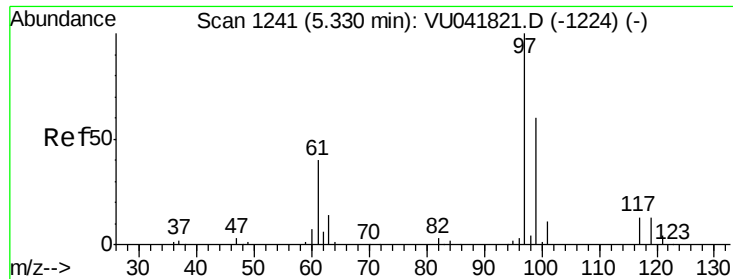
#25
 Chloroform
 Concen: 6.730 ug/L
 RT: 5.10 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VU041826.D
 Acq: 28 Dec 2020 14:16

Tgt Ion: 83 Resp: 142831
 Ion Ratio Lower Upper
 83 100
 85 67.3 45.6 84.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

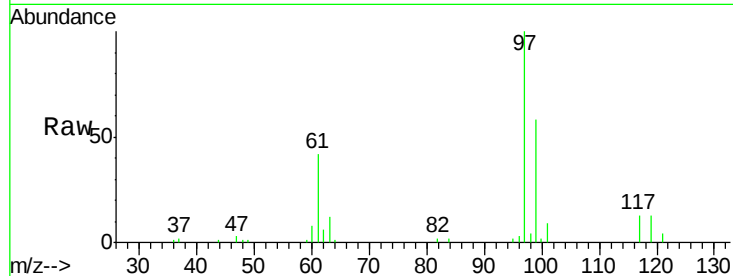




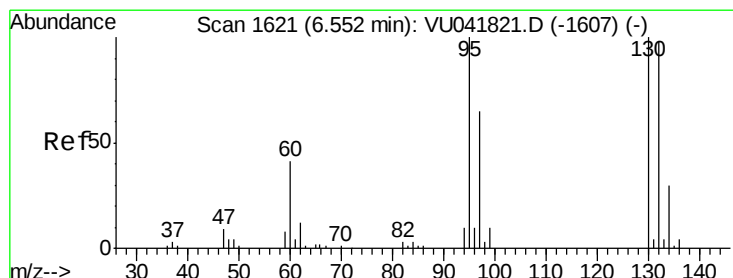
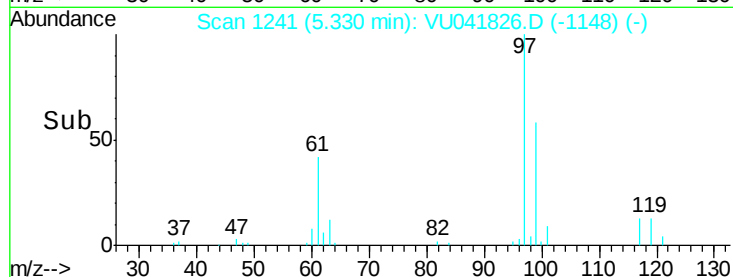
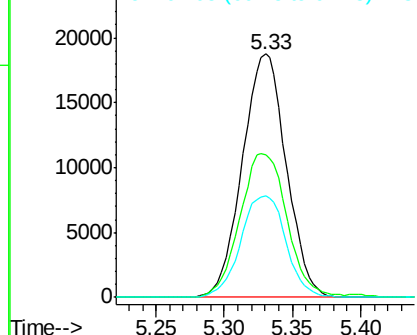
#29
1,1,1-Trichloroethane
Concen: 2.284 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VU041826.D
Acq: 28 Dec 2020 14:16

Instrument :
MSVOA_U
ClientSampleId :
X2T92

Tot Ion: 97 Resp: 41832
Ion Ratio Lower Upper
97 100
99 63.5 50.3 75.5
61 42.9 32.7 49.1

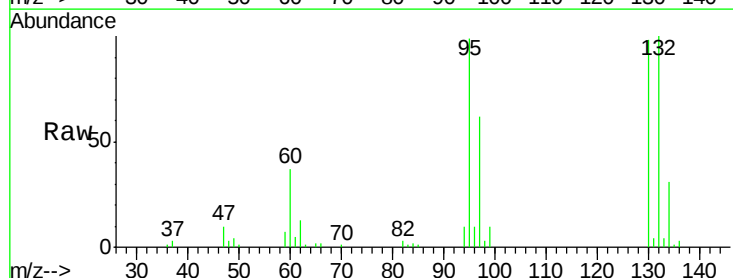


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

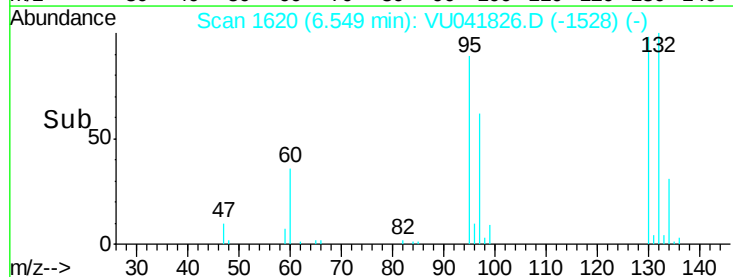
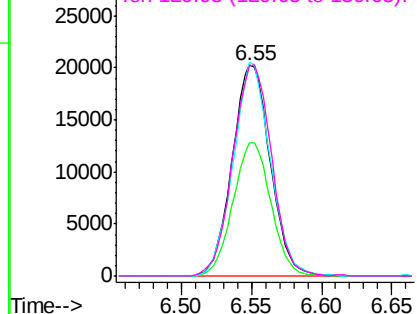


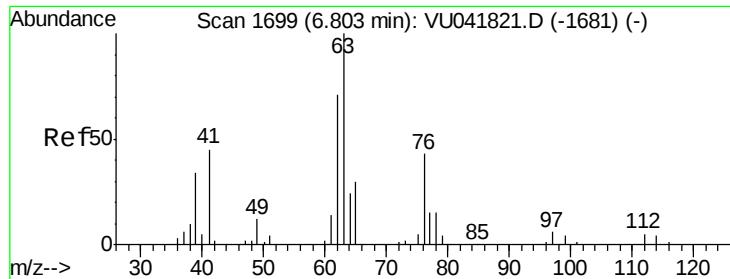
#34
Trichloroethene
Concen: 3.205 ug/L
RT: 6.55 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VU041826.D
Acq: 28 Dec 2020 14:16

Tgt Ion: 95 Resp: 38252
Ion Ratio Lower Upper
95 100
97 62.9 45.8 85.2
132 101.3 68.7 127.7
130 99.8 70.1 130.3



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

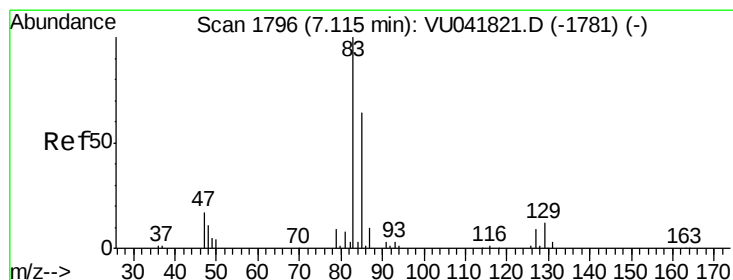
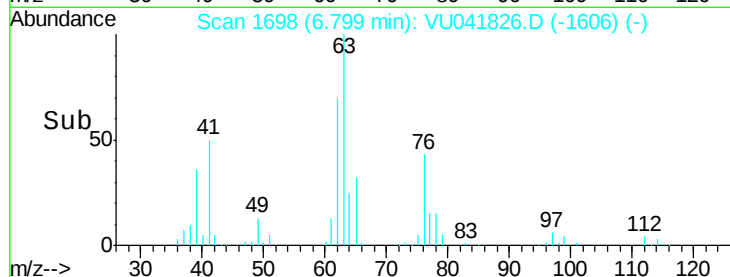
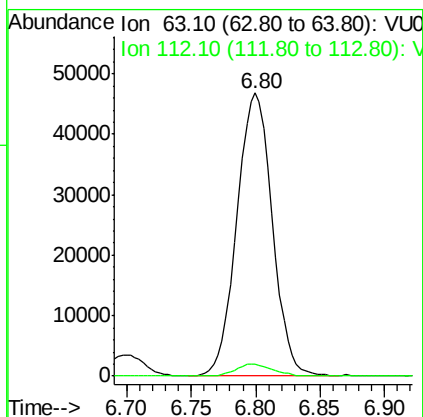
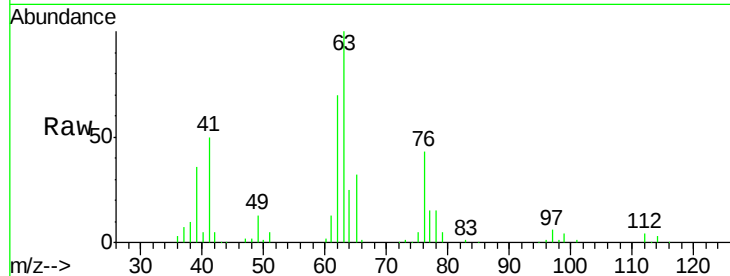




#37
 1,2-Dichloropropane
 Concen: 7.917 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU041826.D
 Acq: 28 Dec 2020 14:16

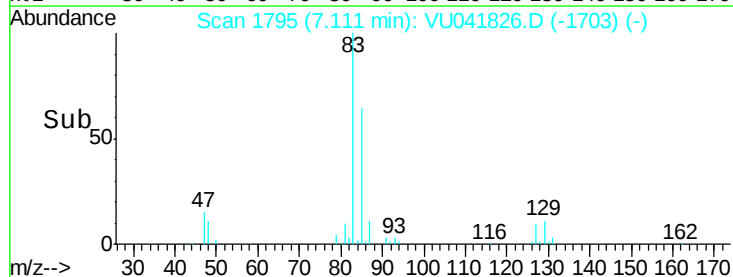
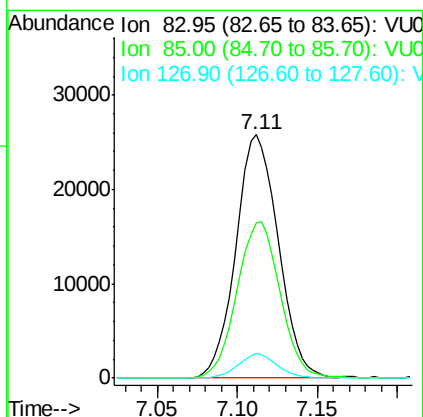
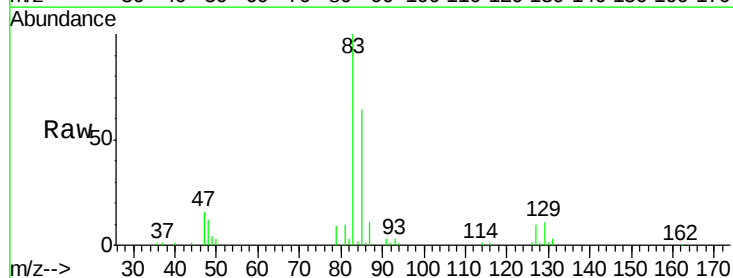
Instrument :
 MSVOA_U
 ClientSampled :
 X2T92

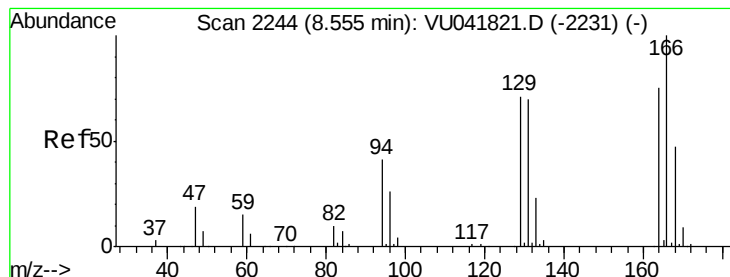
Tot Ion: 63 Resp: 89808
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.5 5.3



#38
 Bromodichloromethane
 Concen: 3.137 ug/L
 RT: 7.11 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VU041826.D
 Acq: 28 Dec 2020 14:16

Tgt Ion: 83 Resp: 46734
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.6 82.8
 127 10.0 7.4 11.2





#47

Tetrachloroethene

Concen: 4.071 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

Instrument :

MSVOA_U

ClientSampleId :

X2T92

Tot Ion:164 Resp: 37983

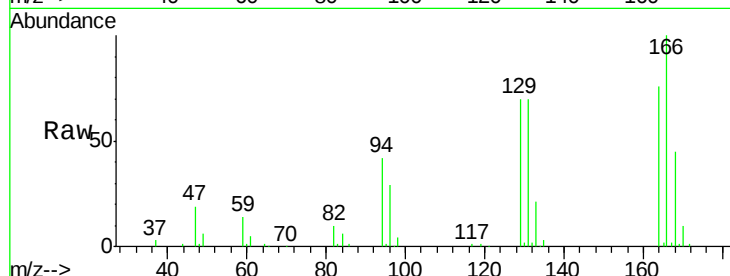
Ion Ratio Lower Upper

164 100

129 92.5 66.6 123.8

131 92.4 65.9 122.3

166 131.9 93.7 173.9

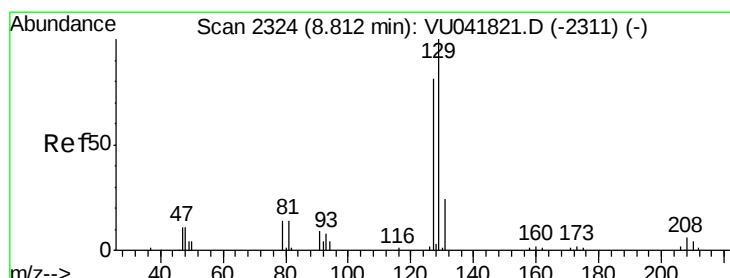
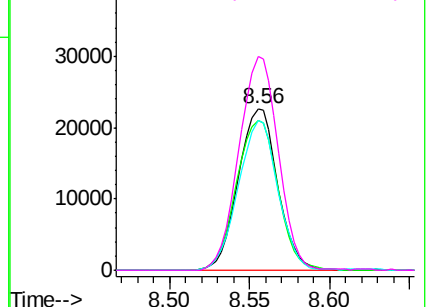
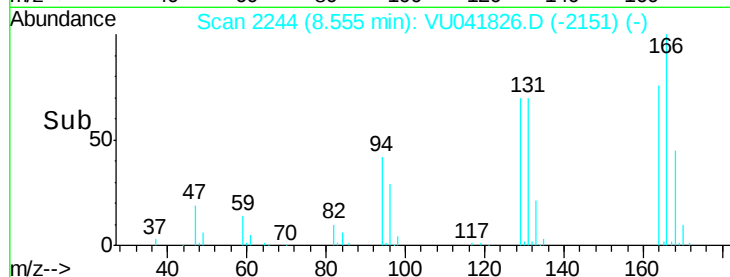


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 10.493 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VU041826.D

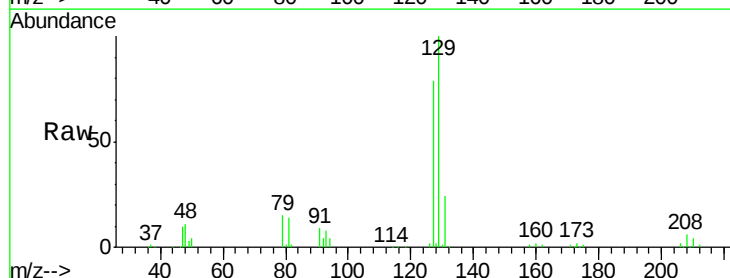
Acq: 28 Dec 2020 14:16

Tgt Ion:129 Resp: 115941

Ion Ratio Lower Upper

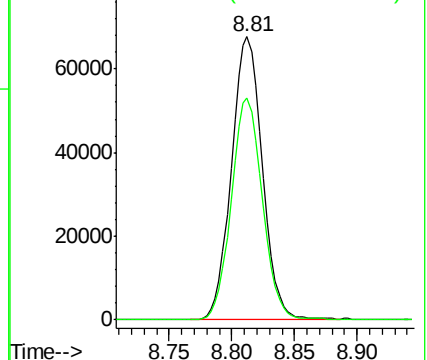
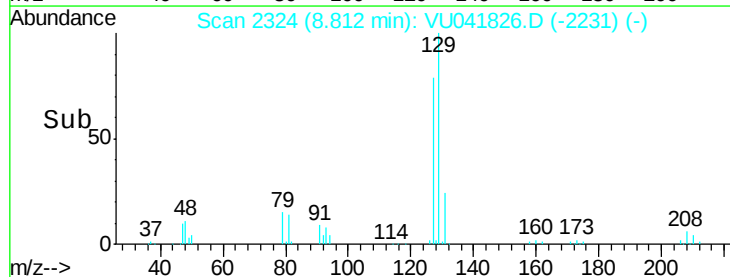
129 100

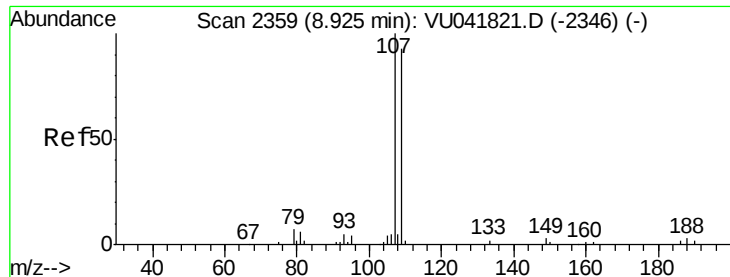
127 78.6 56.6 105.2



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

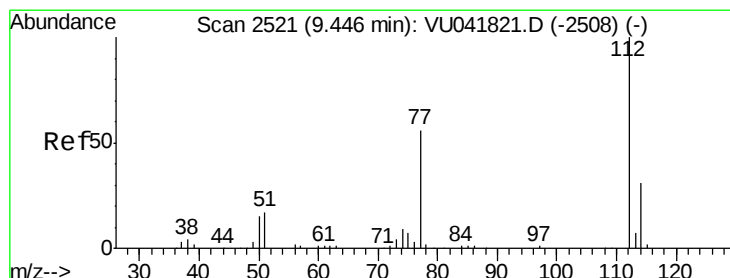
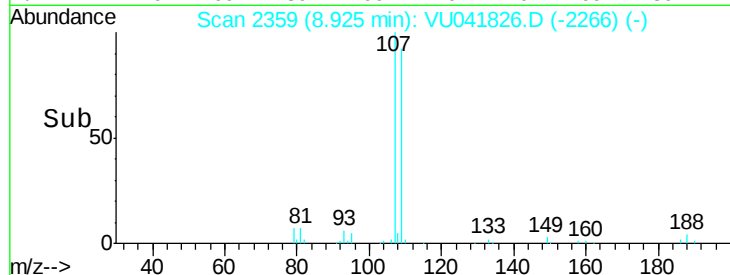
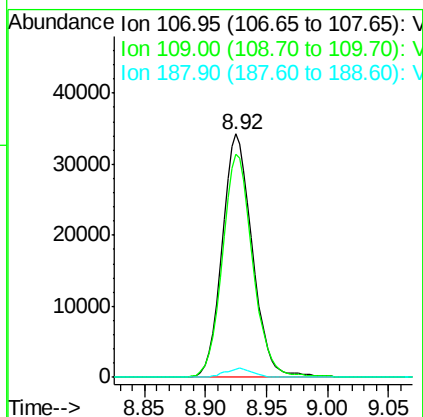
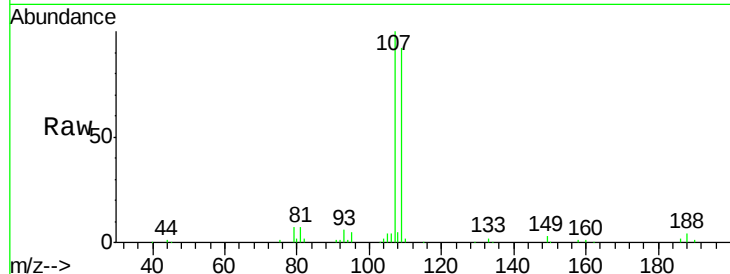




#50
1,2-Dibromoethane
Concen: 6.531 ug/L
RT: 8.92 min Scan# 2359
Delta R.T. -0.00 min
Lab File: VU041826.D
Acq: 28 Dec 2020 14:16

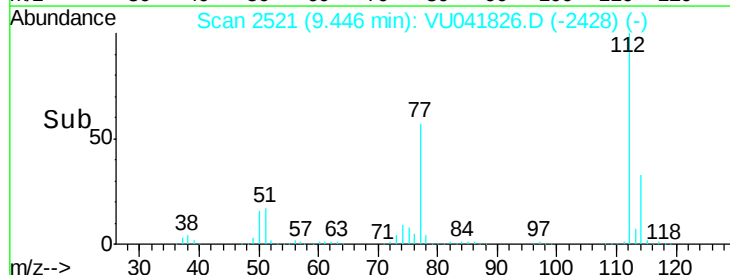
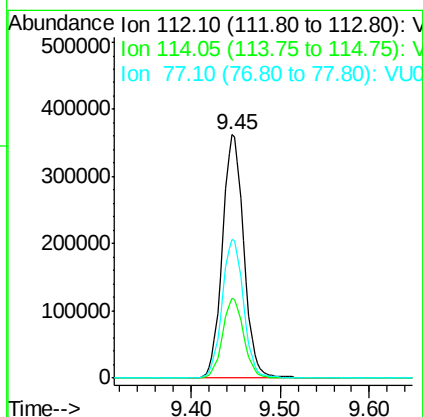
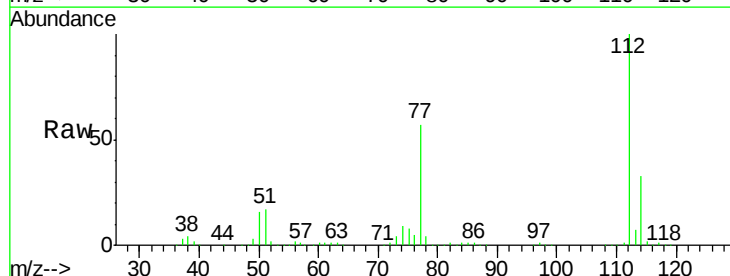
Instrument :
MSVOA_U
ClientSampleId :
X2T92

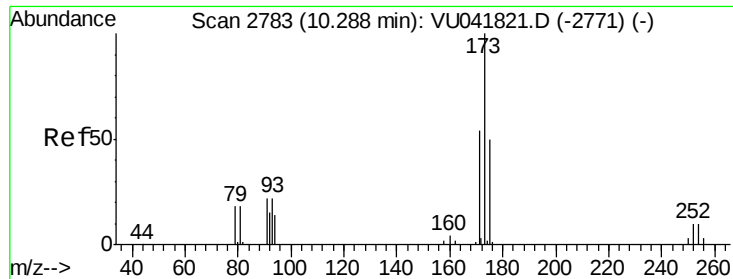
Tot Ion:107 Resp: 59396
Ion Ratio Lower Upper
107 100
109 91.7 65.4 121.4
188 3.5 2.5 3.7



#51
Chlorobenzene
Concen: 19.079 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU041826.D
Acq: 28 Dec 2020 14:16

Tgt Ion:112 Resp: 602547
Ion Ratio Lower Upper
112 100
114 32.7 21.9 40.7
77 57.1 45.1 67.7





#59

Bromoform

Concen: 17.273 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

Instrument :

MSVOA_U

ClientSampleId :

X2T92

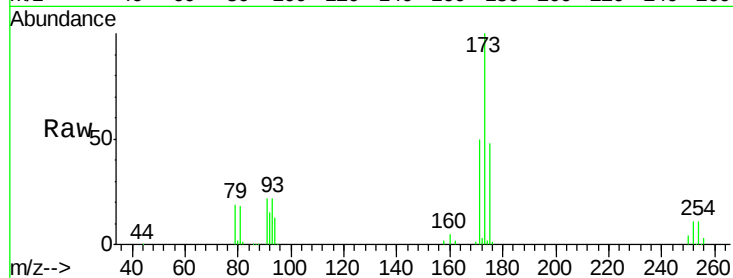
Tot Ion:173 Resp: 108575

Ion Ratio Lower Upper

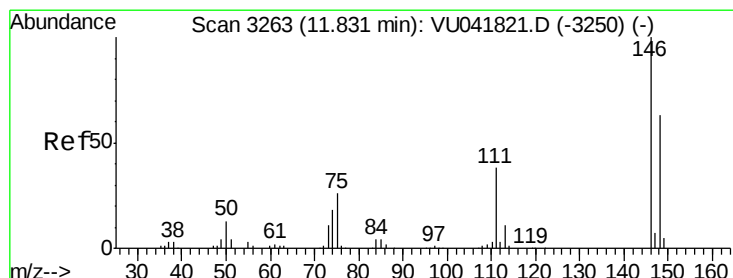
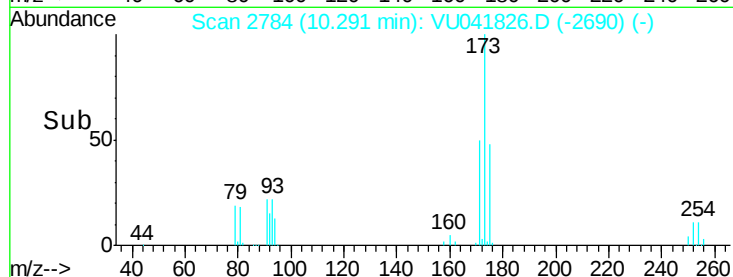
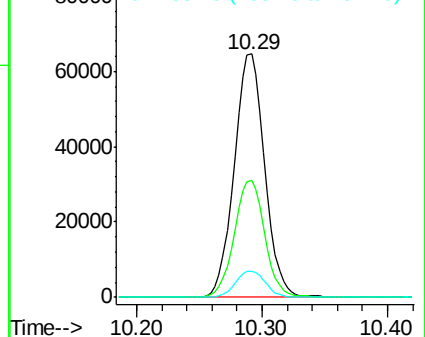
173 100

175 48.2 39.4 59.0

254 10.7 8.0 12.0



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#65

1,4-Dichlorobenzene

Concen: 8.534 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

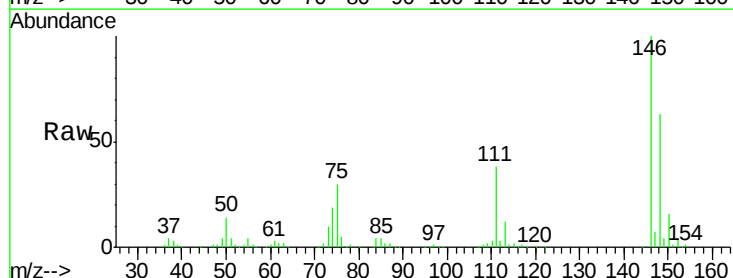
Tgt Ion:146 Resp: 191459

Ion Ratio Lower Upper

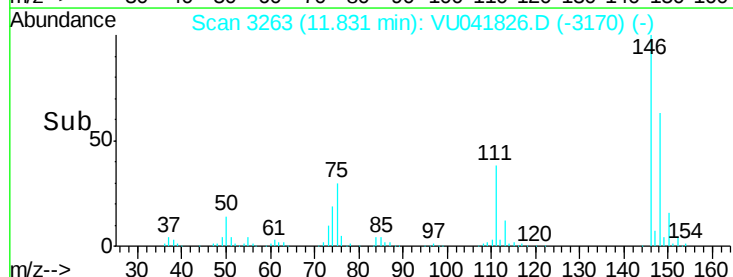
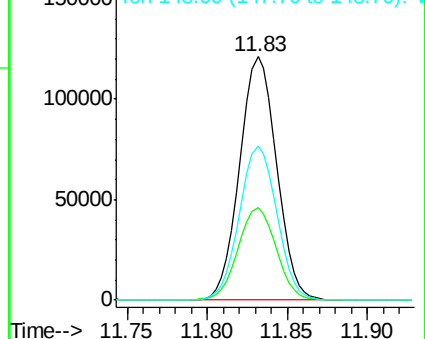
146 100

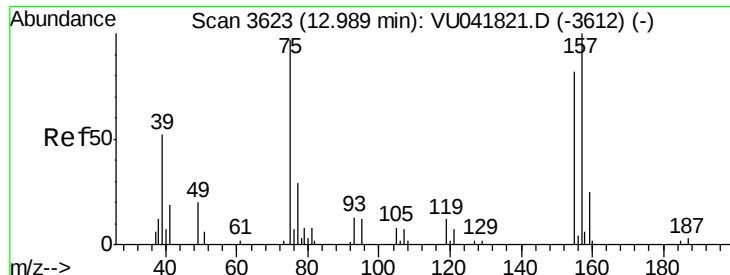
111 37.8 26.7 49.5

148 63.0 43.9 81.5



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





#68

1,2-Dibromo-3-chloropropane

Concen: 10.813 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU041826.D

Acq: 28 Dec 2020 14:16

Instrument :

MSVOA_U

ClientSampleId :

X2T92

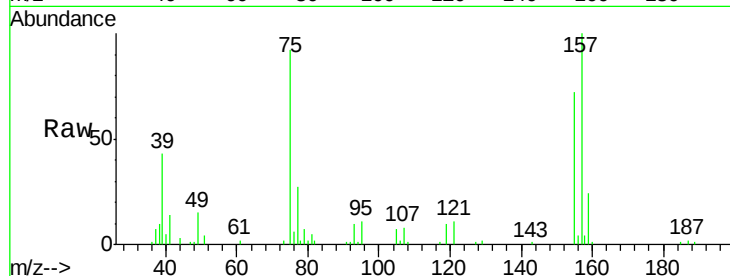
Tot Ion: 75 Resp: 20385

Ion Ratio Lower Upper

75 100

155 78.0 67.8 101.8

157 108.2 82.4 123.6



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

