

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091618\
 Data File : VU026776.D
 Acq On : 15 Sep 2018 14:30
 Operator : MD/SY
 Sample : J4864-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D10

Quant Time: Sep 17 05:19:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091618WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 17 05:13:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	130128	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	111245	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	70405	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	43125	4.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.20%
7) Chloroethane-d5	1.68	69	36261	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.00%
11) 1,1-Dichloroethene-d2	2.27	63	62606	3.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.20%
20) 2-Butanone-d5	4.23	46	102114	46.81	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.62%
24) Chloroform-d	4.65	84	75857	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
26) 1,2-Dichloroethane-d4	5.31	65	40748	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.34	84	158135	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.33	67	50657	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.20%
41) Toluene-d8	7.57	98	132836	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
43) trans-1,3-Dichloropropene-	7.85	79	17736	4.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.60%
46) 2-Hexanone-d5	8.33	63	72964	49.80	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.60%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	38131	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	55110	4.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.40%

Target Compounds

					Qvalue
3) Chloromethane	1.32	50	1890	0.136 ug/L	97
5) Vinyl chloride	1.40	62	2459	0.172 ug/L #	69
8) Chloroethane	1.59	64	38833	4.304 ug/L #	53
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	593	0.058 ug/L #	18
12) 1,1-Dichloroethene	2.29	96	1791	0.185 ug/L #	1
13) Acetone	2.37	43	2456	1.266 ug/L	91
14) Carbon disulfide	2.48	76	3554	0.105 ug/L	98
19) 1,1-Dichloroethane	3.45	63	932	0.047 ug/L #	87
22) cis-1,2-Dichloroethene	4.23	96	7209	0.626 ug/L	93
29) 1,1,1-Trichloroethane	4.92	97	6470	0.404 ug/L	97
31) Carbon tetrachloride	4.91	117	828	0.059 ug/L	94
34) Trichloroethene	6.18	95	67665	6.377 ug/L	98
37) 1,2-Dichloropropane	6.33	63	5483	0.496 ug/L #	87
42) Toluene	7.64	91	2620	0.062 ug/L	91
48) 2-Hexanone	8.38	43	1541	0.335 ug/L #	40
49) Dibromochloromethane	8.23	129	482	0.053 ug/L #	10
51) Chlorobenzene	9.12	112	1616	0.057 ug/L	90

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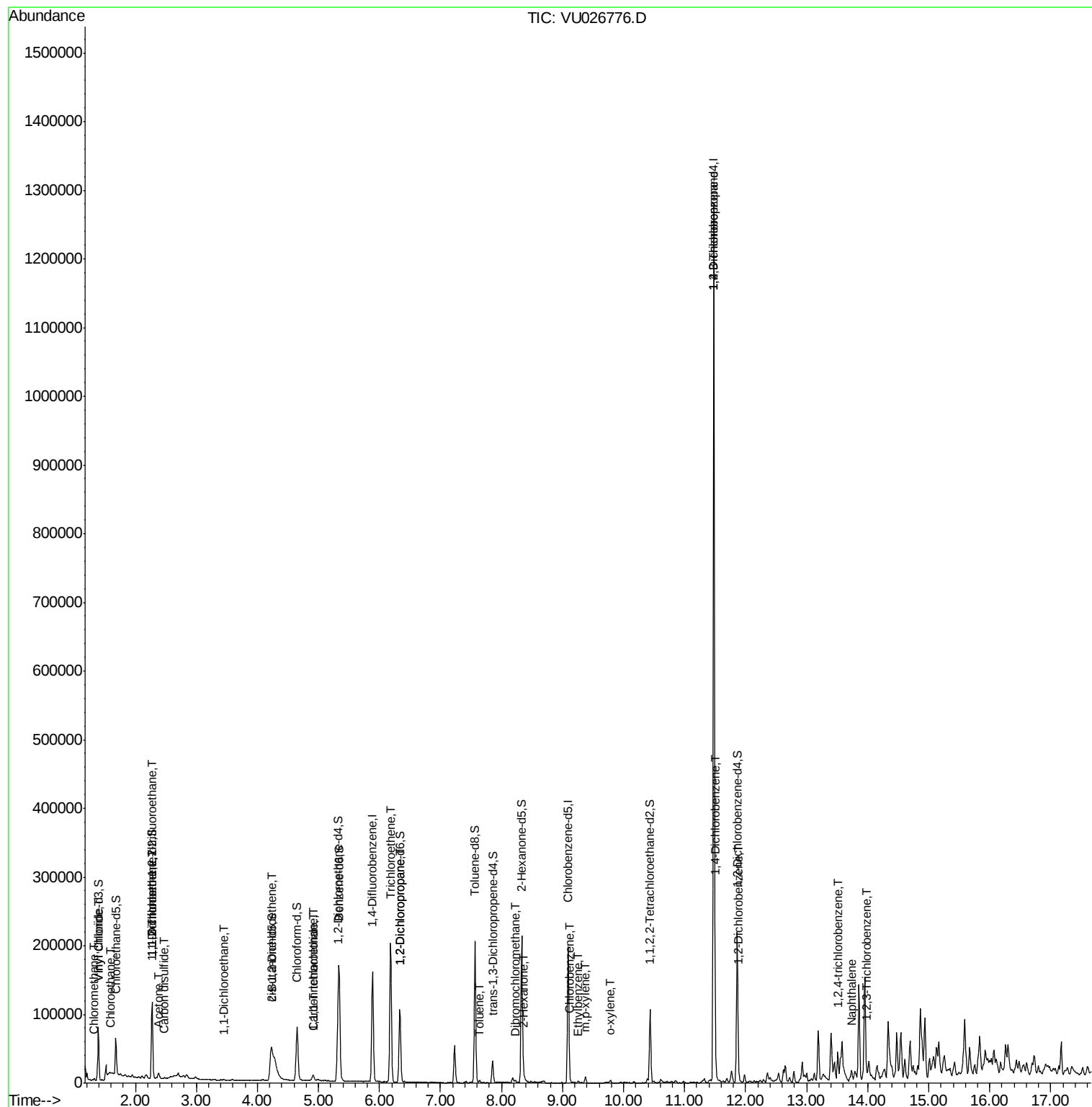
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.25	91	2232	0.053	ug/L	94
53) m,p-xylene	9.38	106	2422	0.150	ug/L	96
54) o-xylene	9.78	106	1008	0.065	ug/L	97
59) 1,2,3-Trichloropropane	11.48	75	13121	2.018	ug/L #	1
63) 1,4-Dichlorobenzene	11.51	146	4152	0.144	ug/L	93
65) 1,2-Dichlorobenzene	11.88	146	1790	0.068	ug/L	89
68) 1,2,4-trichlorobenzene	13.50	180	2150	0.124	ug/L #	55
69) Naphthalene	13.74	128	3879	0.156	ug/L #	66
70) 1,2,3-Trichlorobenzene	13.99	180	1218	0.074	ug/L #	1

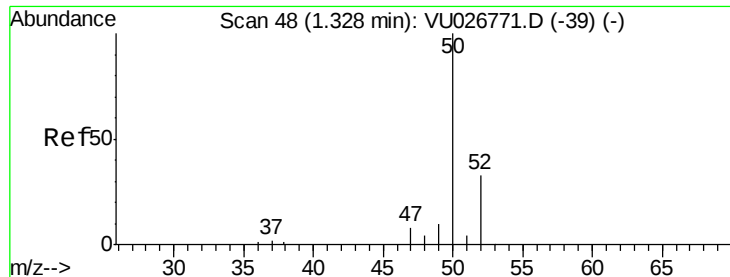
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.136 ug/L

RT: 1.32 min Scan# 47

Delta R.T. -0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampleId :

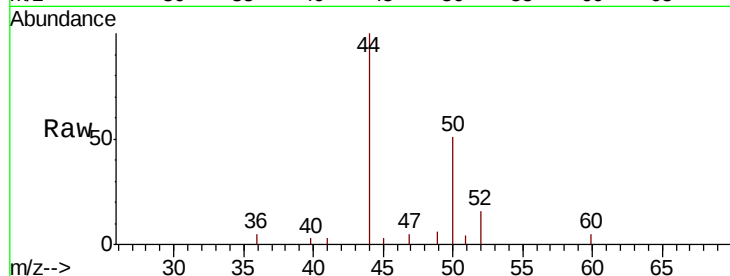
C0D10

Tgt Ion: 50 Resp: 1890

Ion Ratio Lower Upper

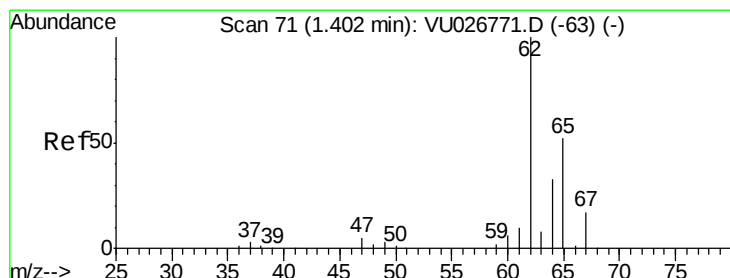
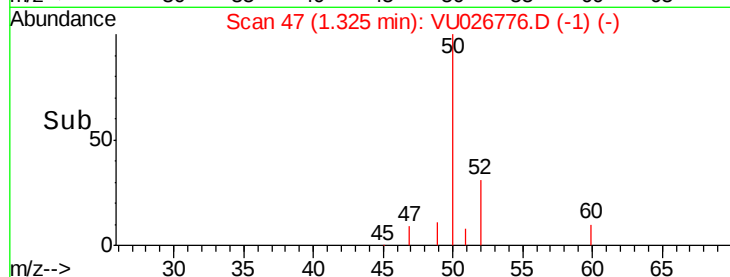
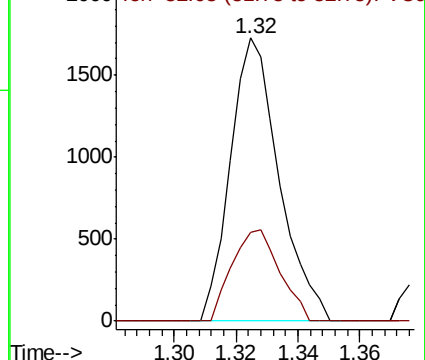
50 100

52 31.3 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.172 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU026776.D

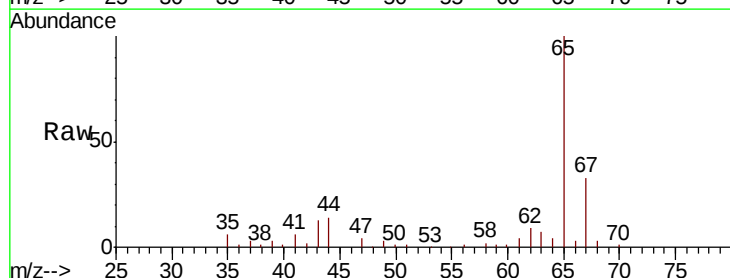
Acq: 15 Sep 2018 14:30

Tgt Ion: 62 Resp: 2459

Ion Ratio Lower Upper

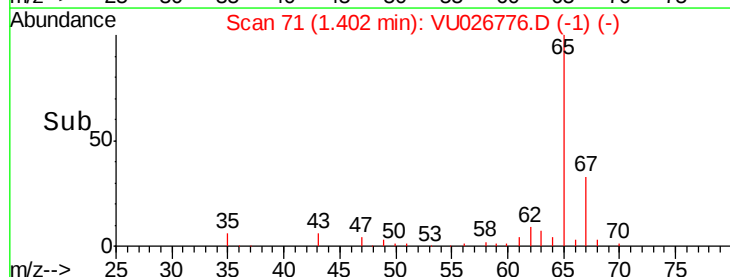
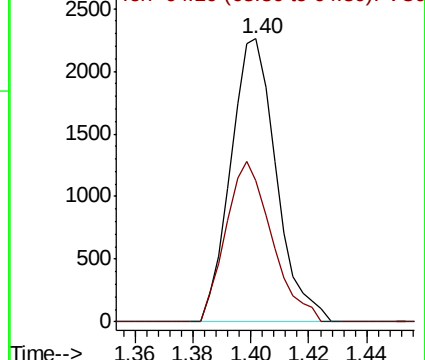
62 100

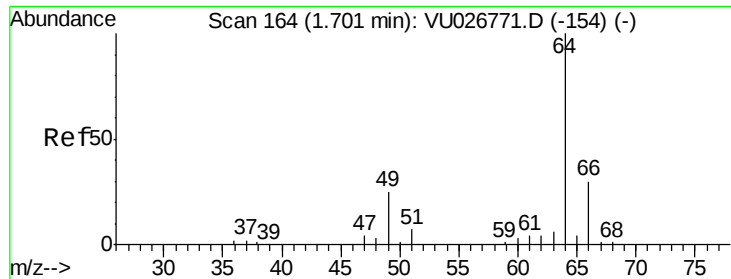
64 49.9 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 4.304 ug/L

RT: 1.59 min Scan# 131

Delta R.T. -0.11 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampleId :

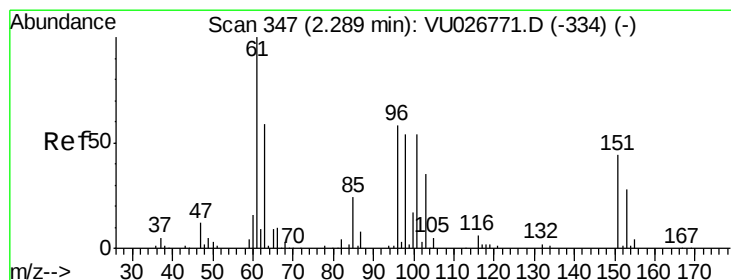
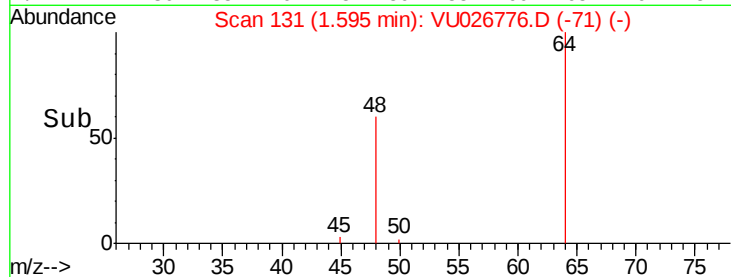
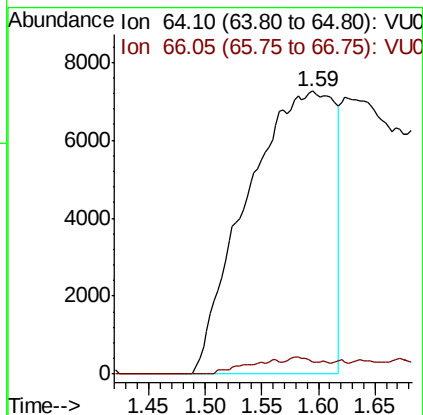
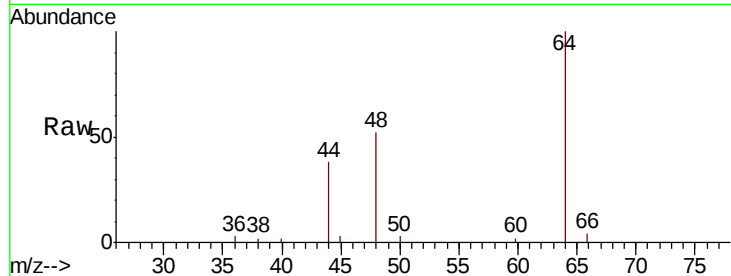
C0D10

Tgt Ion: 64 Resp: 38833

Ion Ratio Lower Upper

64 100

66 4.3 20.9 38.9#



#10

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

Concen: 0.058 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

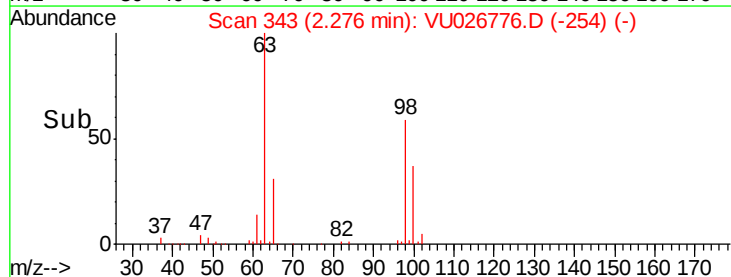
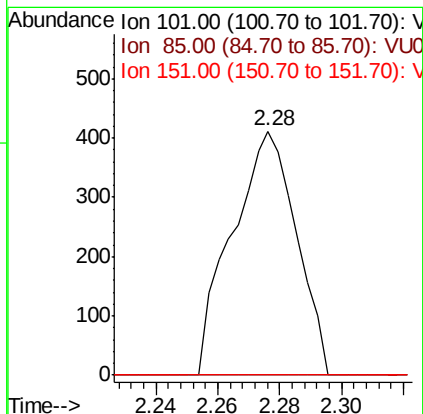
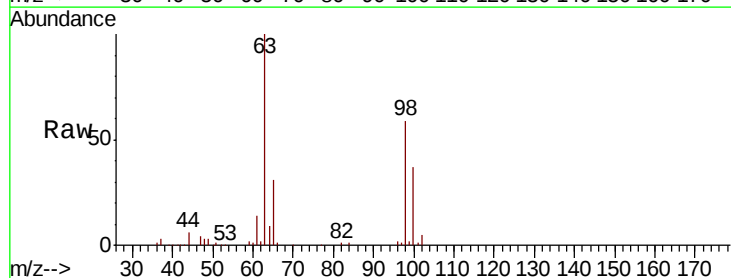
Tgt Ion: 101 Resp: 593

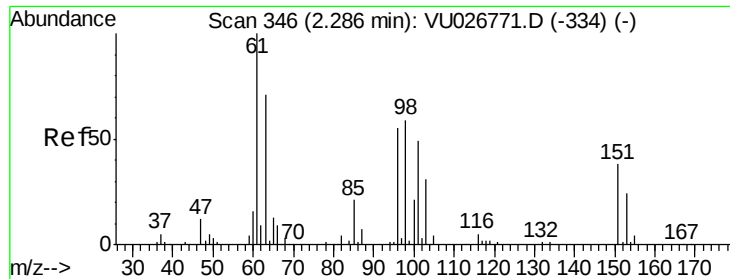
Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

151 0.0 63.3 94.9#





#12

1,1-Dichloroethene

Concen: 0.185 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampleId :

C0D10

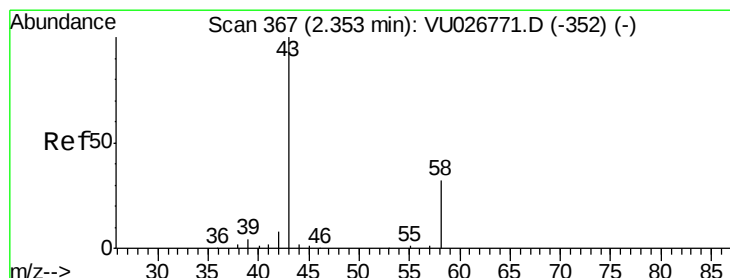
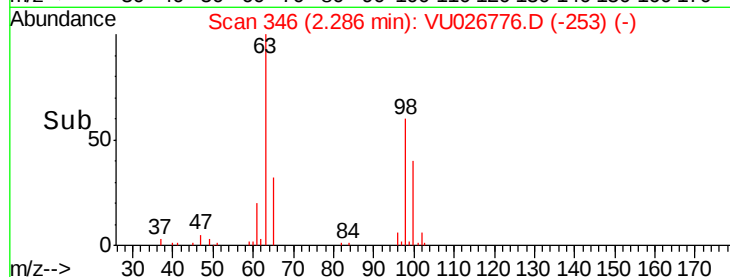
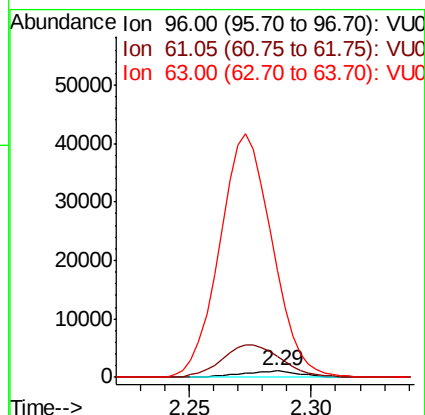
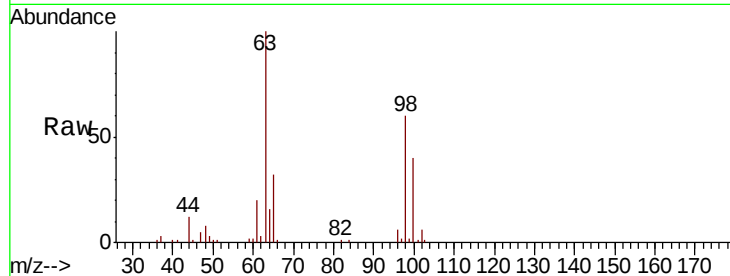
Tgt Ion: 96 Resp: 1791

Ion Ratio Lower Upper

96 100

61 332.4 126.6 235.2#

63 1702.0 91.3 169.5#



#13

Acetone

Concen: 1.266 ug/L

RT: 2.37 min Scan# 373

Delta R.T. 0.02 min

Lab File: VU026776.D

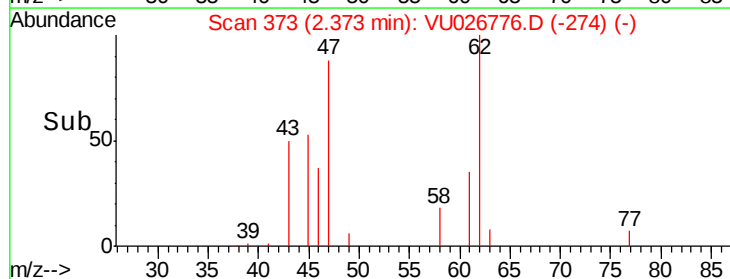
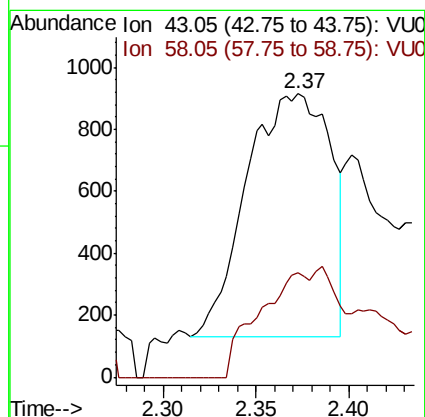
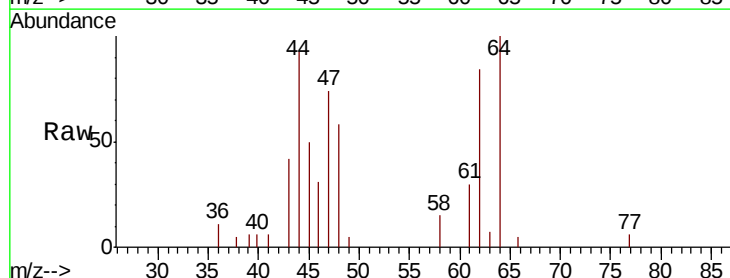
Acq: 15 Sep 2018 14:30

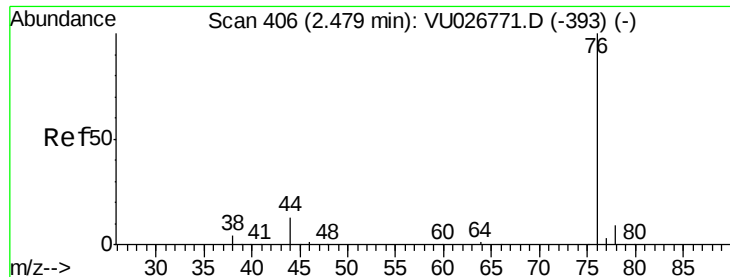
Tgt Ion: 43 Resp: 2456

Ion Ratio Lower Upper

43 100

58 26.6 0.0 63.0





#14

Carbon disulfide

Concen: 0.105 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampled :

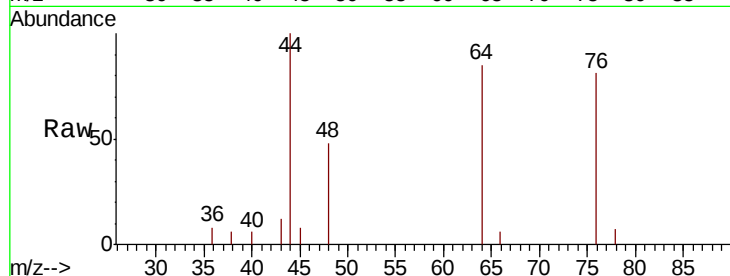
C0D10

Tgt Ion: 76 Resp: 3554

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

2000

1500

1000

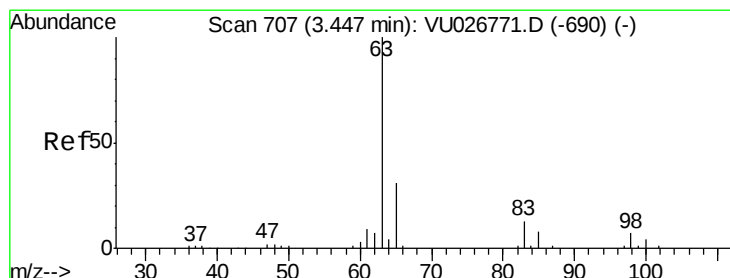
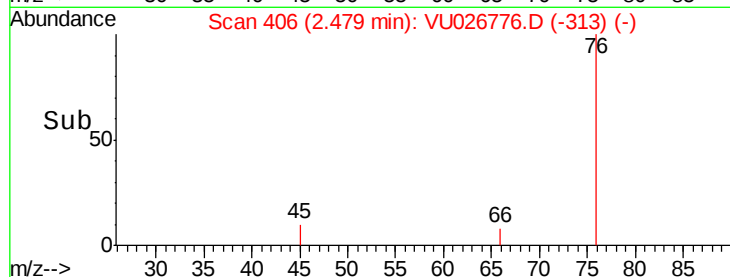
500

0

2.45

2.50

Time-->



#19

1,1-Dichloroethane

Concen: 0.047 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

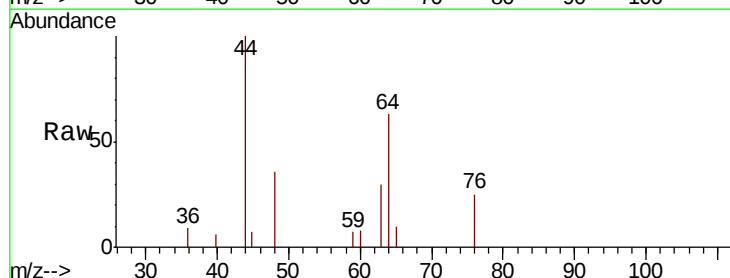
Tgt Ion: 63 Resp: 932

Ion Ratio Lower Upper

63 100

65 34.1 21.7 40.3

83 0.0 9.0 16.6#



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

3.45

600

400

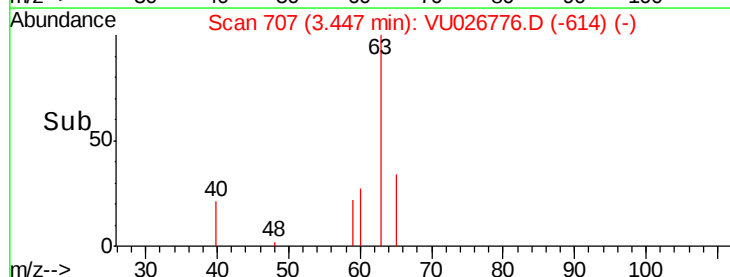
200

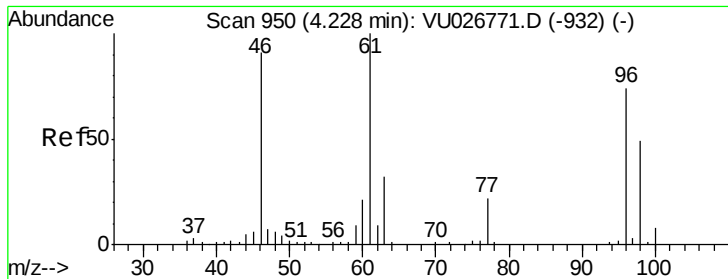
0

3.40

3.45

Time-->



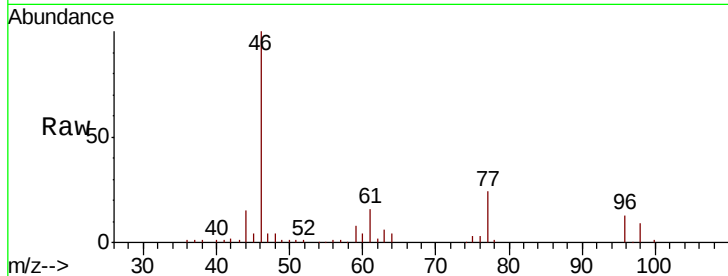


#22

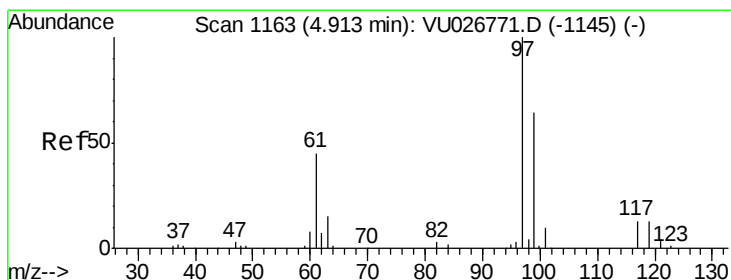
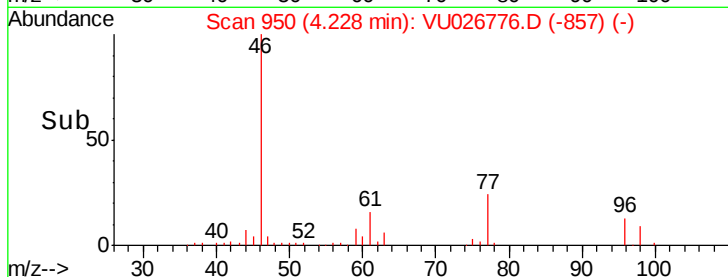
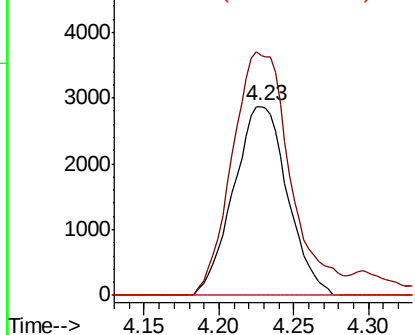
cis-1,2-Dichloroethene
Concen: 0.626 ug/L
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Instrument :
MSVOA_U
ClientSampleId :
C0D10

Tgt Ion: 96 Resp: 7209
Ion Ratio Lower Upper
96 100
61 126.6 94.4 175.2
68 0.0 0.0 0.0



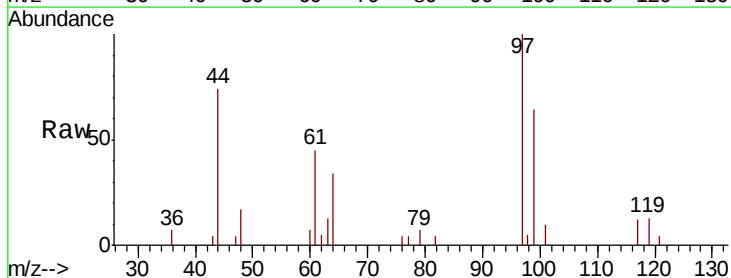
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



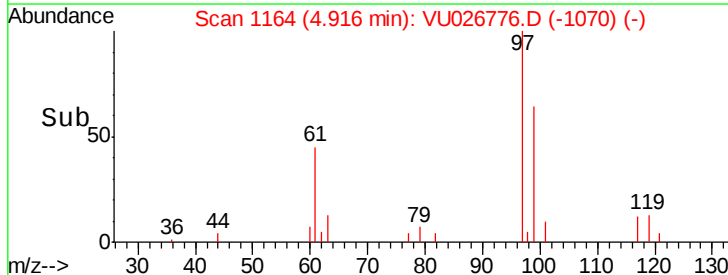
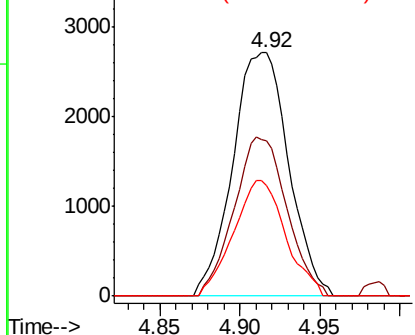
#29

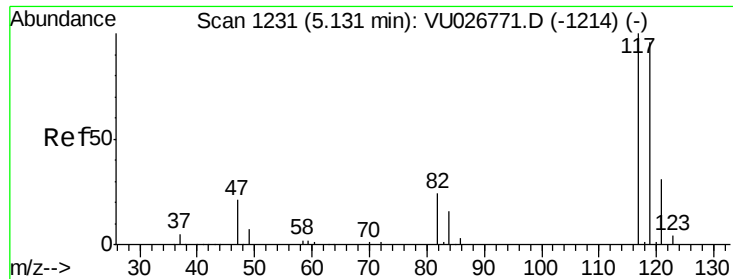
1,1,1-Trichloroethane
Concen: 0.404 ug/L
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Tgt Ion: 97 Resp: 6470
Ion Ratio Lower Upper
97 100
99 61.6 51.5 77.3
61 44.3 36.6 54.8



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

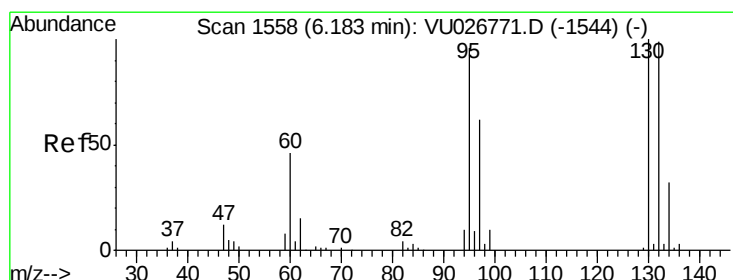
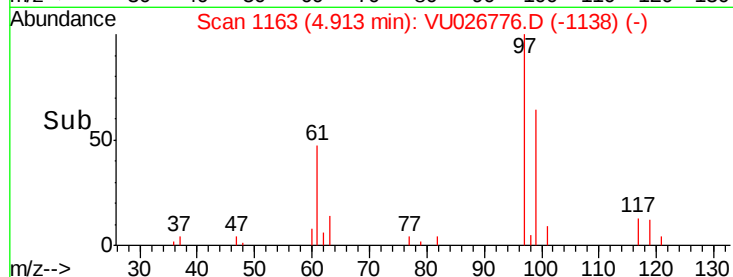
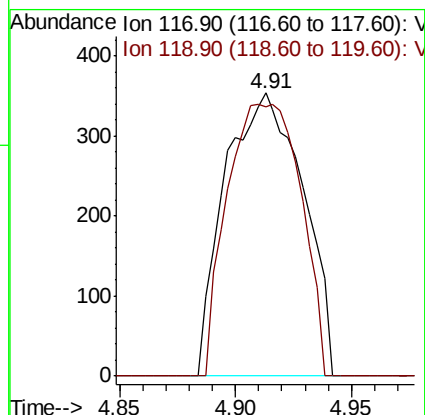
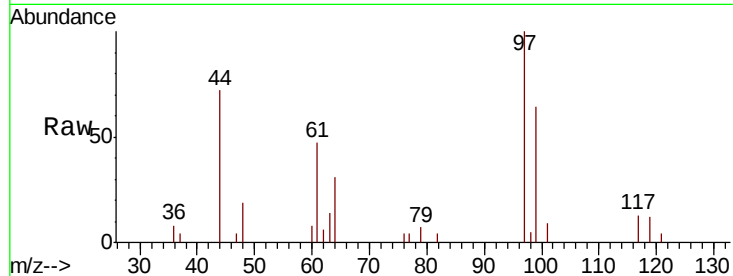




#31
Carbon tetrachloride
Concen: 0.059 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. -0.22 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

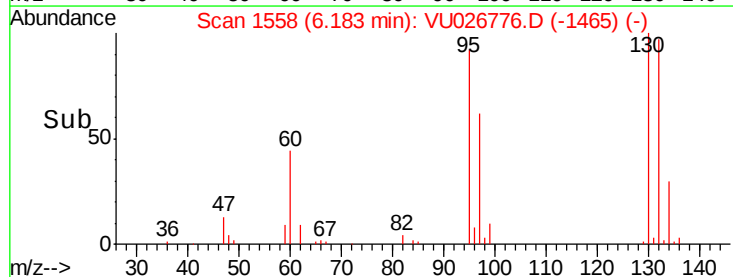
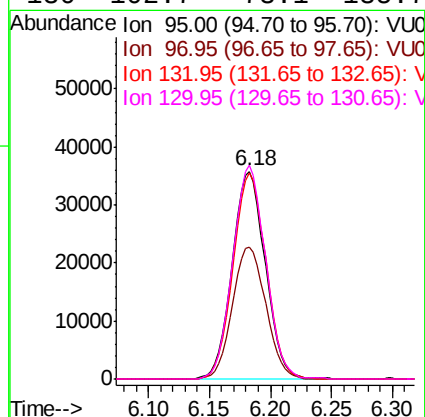
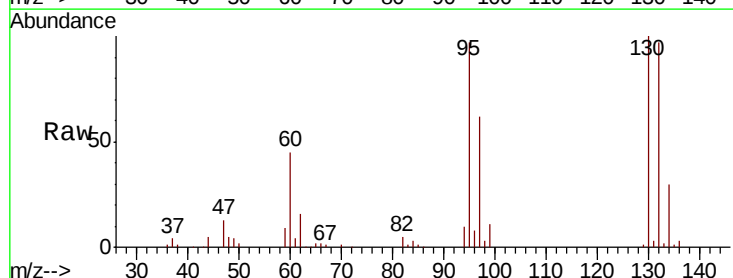
Instrument :
MSVOA_U
ClientSampleId :
C0D10

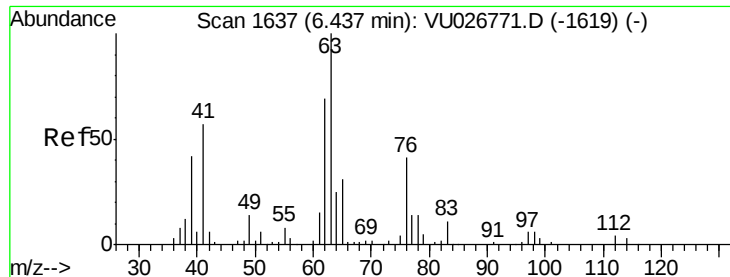
Tgt Ion: 117 Resp: 828
Ion Ratio Lower Upper
117 100
119 90.2 76.9 115.3



#34
Trichloroethene
Concen: 6.377 ug/L
RT: 6.18 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Tgt Ion: 95 Resp: 67665
Ion Ratio Lower Upper
95 100
97 63.7 45.1 83.9
132 99.2 72.0 133.8
130 102.7 73.1 135.7





#37

1,2-Dichloropropane

Concen: 0.496 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampleId :

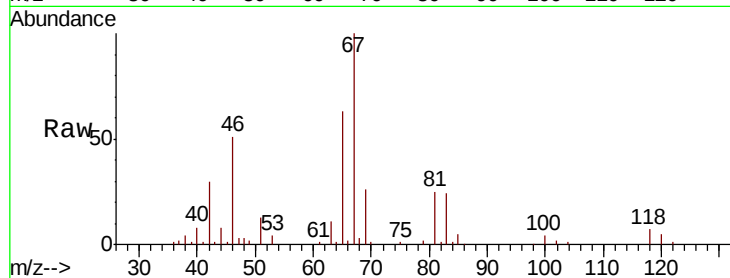
C0D10

Tgt Ion: 63 Resp: 5483

Ion Ratio Lower Upper

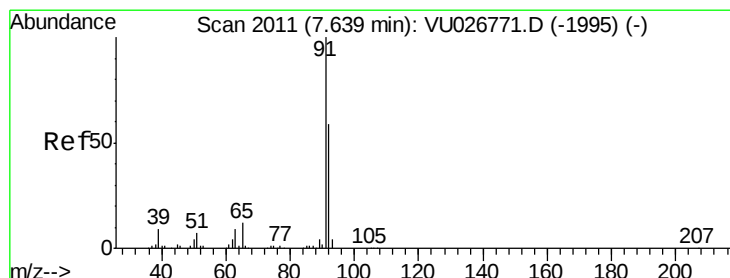
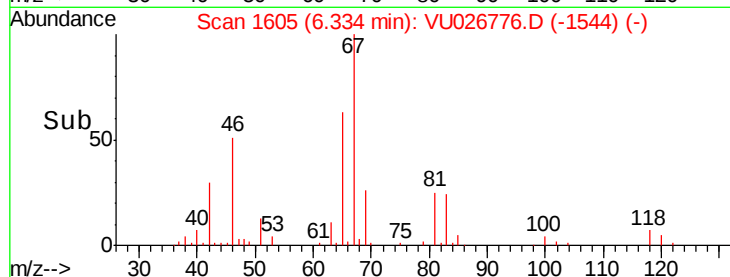
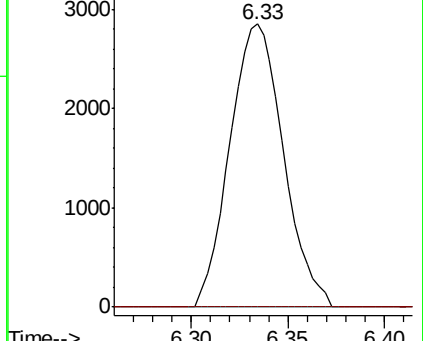
63 100

112 0.0 3.4 5.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#42

Toluene

Concen: 0.062 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU026776.D

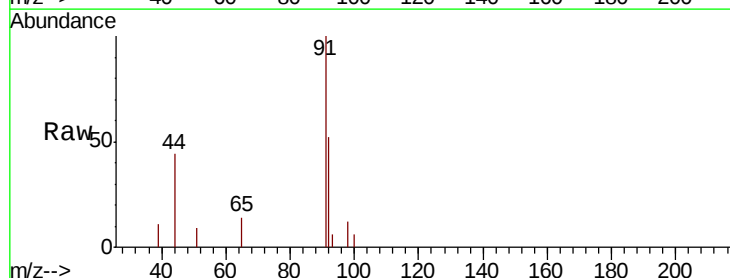
Acq: 15 Sep 2018 14:30

Tgt Ion: 91 Resp: 2620

Ion Ratio Lower Upper

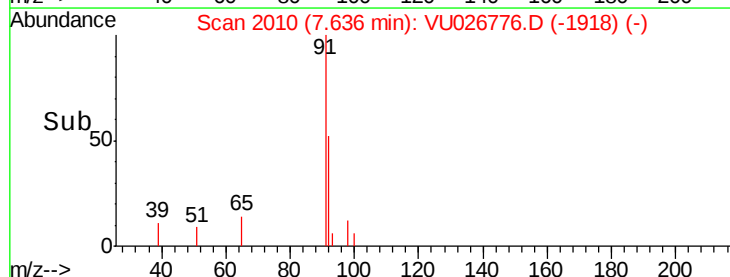
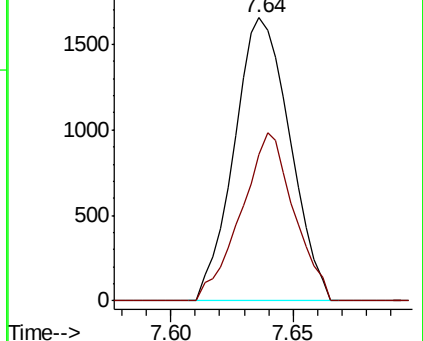
91 100

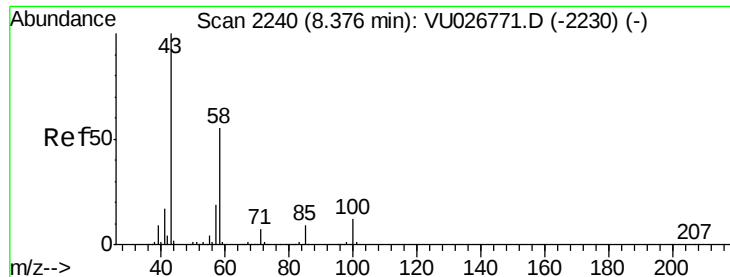
92 51.7 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

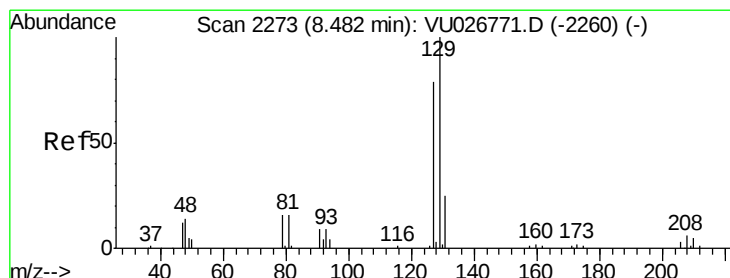
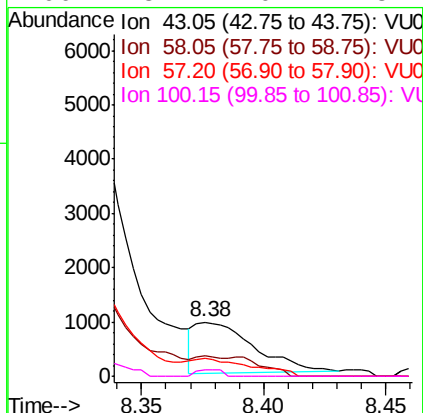
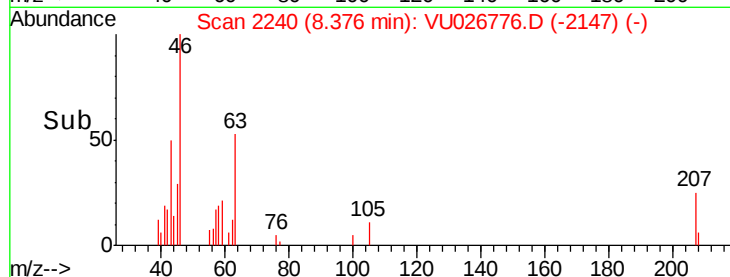
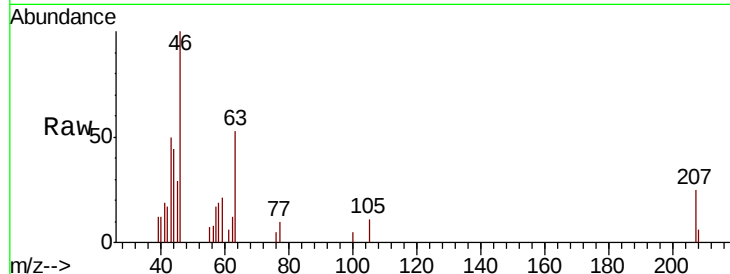




#48
2-Hexanone
Concen: 0.335 ug/L
RT: 8.38 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

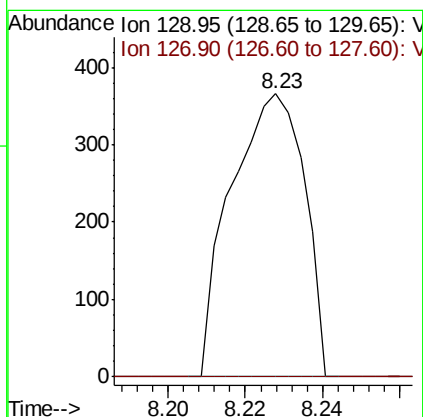
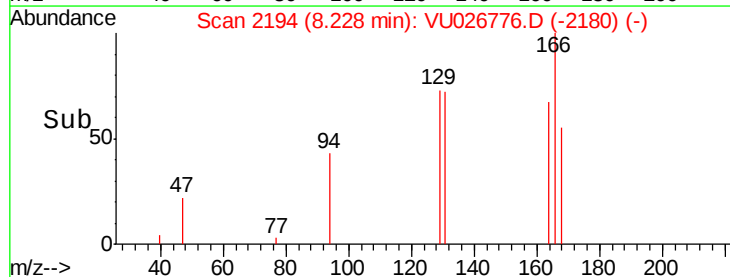
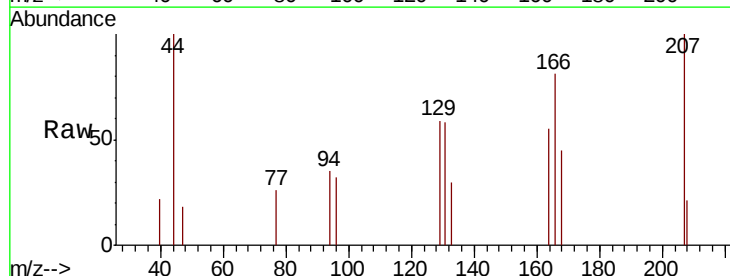
Instrument :
MSVOA_U
ClientSampleId :
C0D10

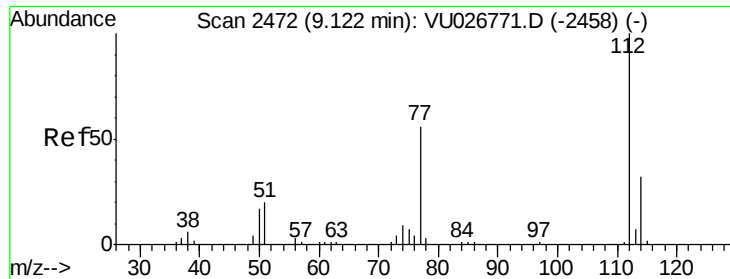
Tgt Ion: 43 Resp: 1541
Ion Ratio Lower Upper
43 100
58 0.0 43.7 65.5#
57 38.2 15.2 22.8#
100 5.4 10.1 15.1#



#49
Dibromochloromethane
Concen: 0.053 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Tgt Ion: 129 Resp: 482
Ion Ratio Lower Upper
129 100
127 0.0 55.4 103.0#

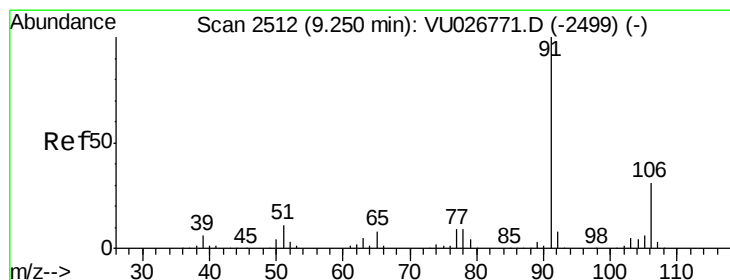
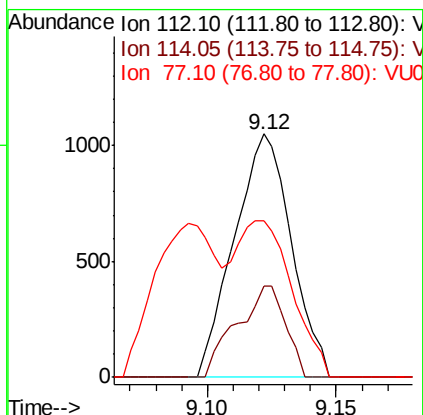
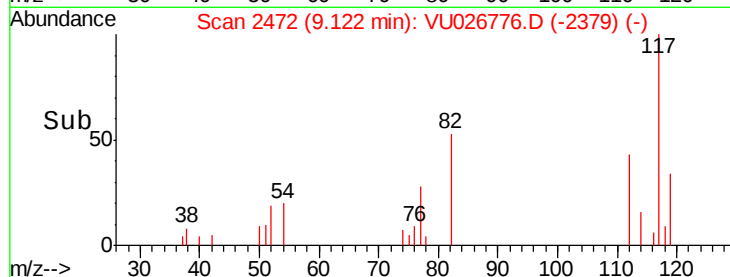
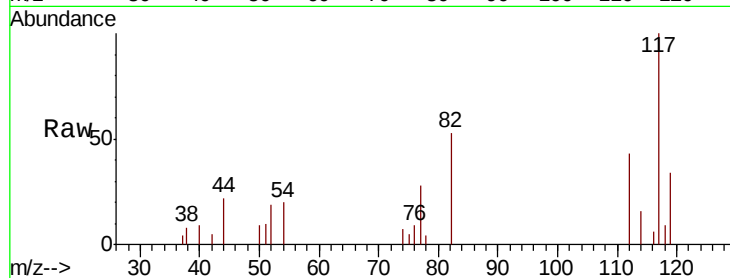




#51
Chlorobenzene
Concen: 0.057 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

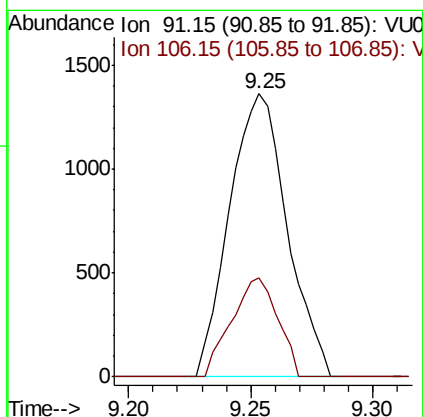
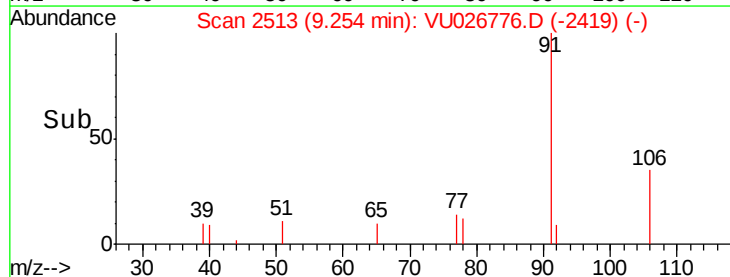
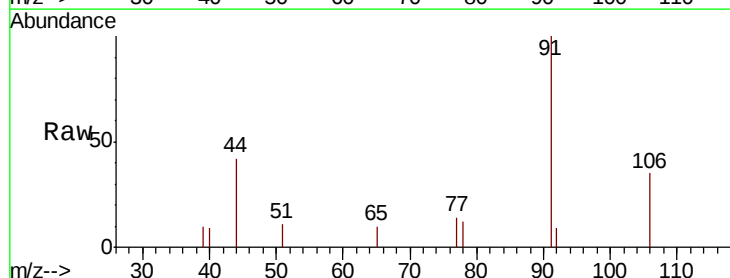
Instrument :
MSVOA_U
ClientSampleId :
C0D10

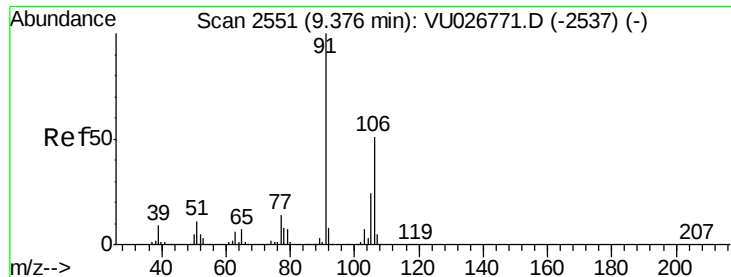
Tgt Ion: 112 Resp: 1616
Ion Ratio Lower Upper
112 100
114 37.7 22.6 42.0
77 64.2 45.1 67.7



#52
Ethylbenzene
Concen: 0.053 ug/L
RT: 9.25 min Scan# 2513
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Tgt Ion: 91 Resp: 2232
Ion Ratio Lower Upper
91 100
106 34.9 21.9 40.7

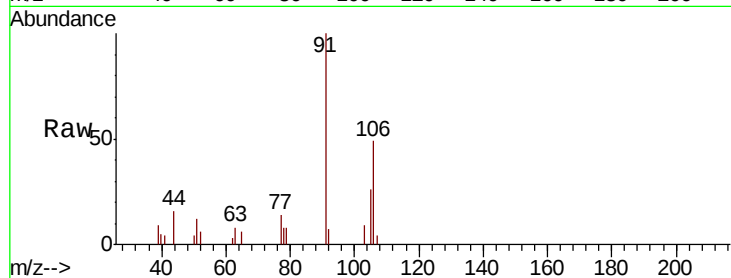




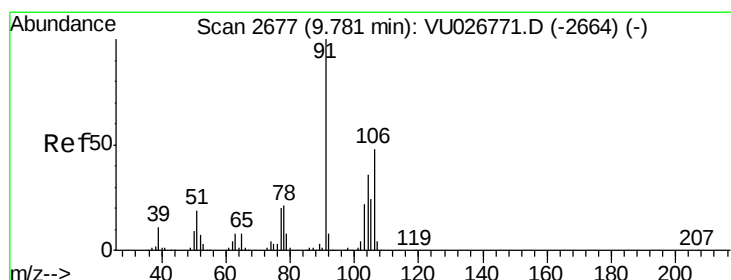
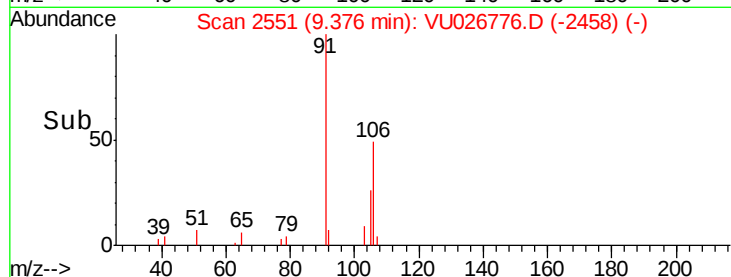
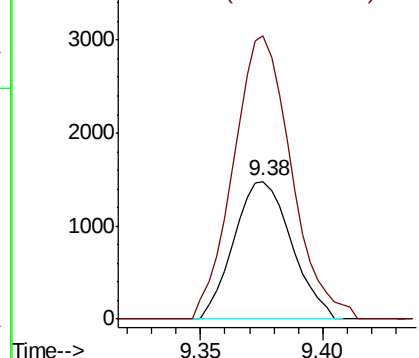
#53
m,p-xylene
Concen: 0.150 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Instrument :
MSVOA_U
ClientSampleId :
C0D10

Tgt Ion:106 Resp: 2422
Ion Ratio Lower Upper
106 100
91 204.9 138.9 257.9

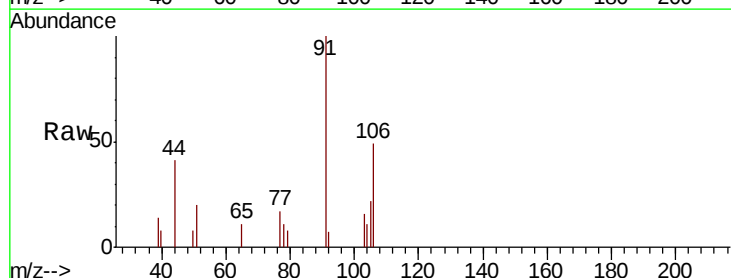


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

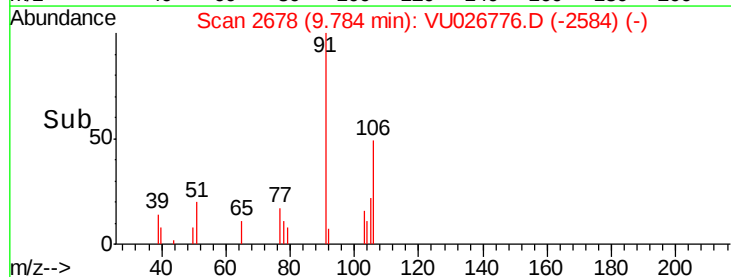
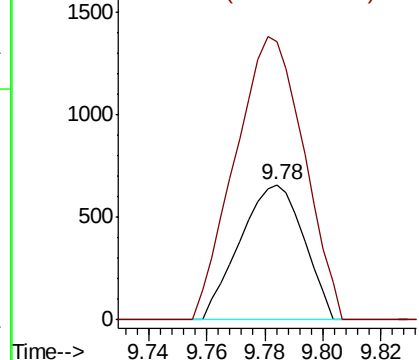


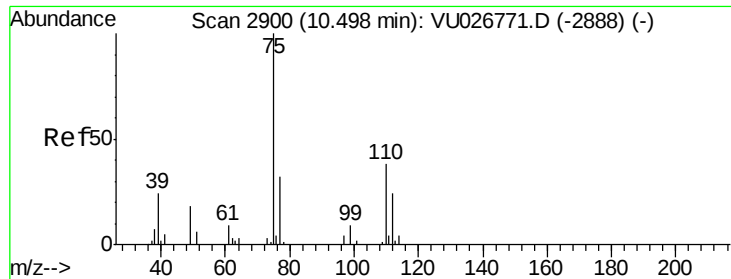
#54
o-xylene
Concen: 0.065 ug/L
RT: 9.78 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VU026776.D
Acq: 15 Sep 2018 14:30

Tgt Ion:106 Resp: 1008
Ion Ratio Lower Upper
106 100
91 204.8 147.1 273.1



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 2.018 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.98 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampleId :

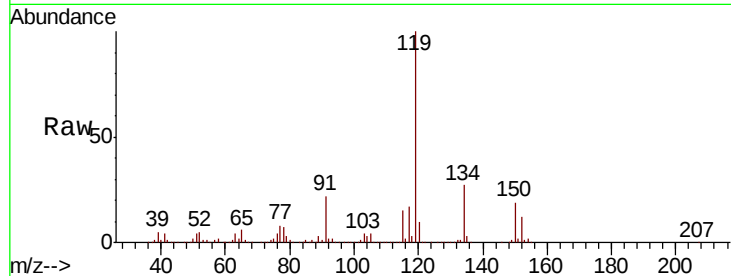
C0D10

Tgt Ion: 75 Resp: 13121

Ion Ratio Lower Upper

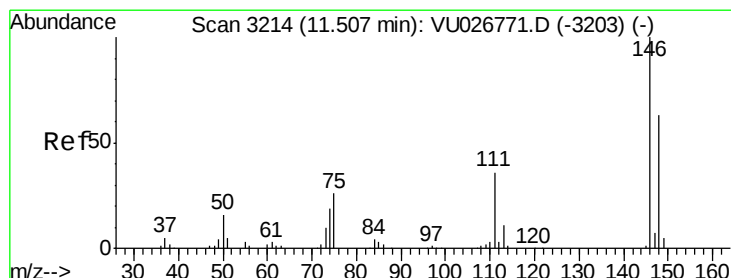
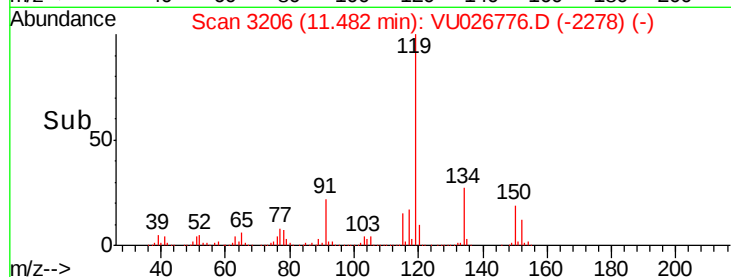
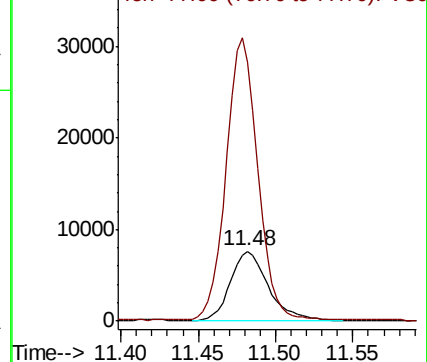
75 100

77 331.7 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#63

1,4-Dichlorobenzene

Concen: 0.144 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

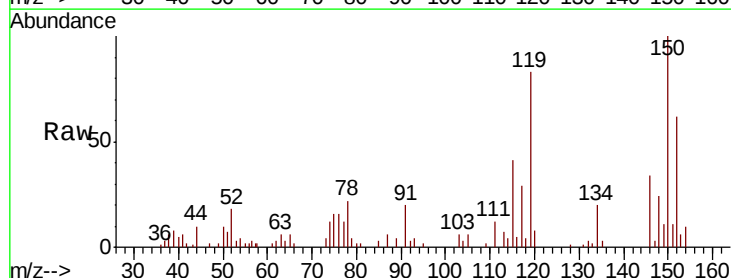
Tgt Ion: 146 Resp: 4152

Ion Ratio Lower Upper

146 100

111 34.6 25.3 46.9

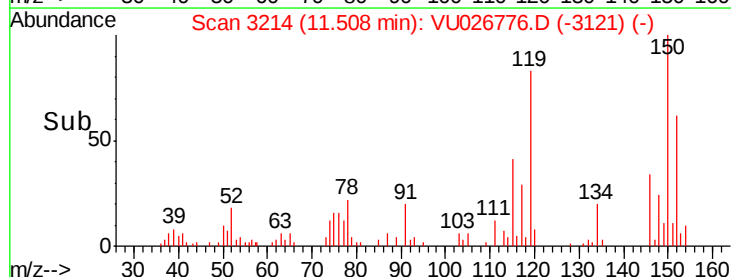
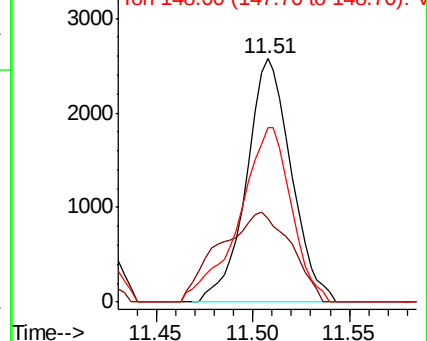
148 71.4 44.5 82.7

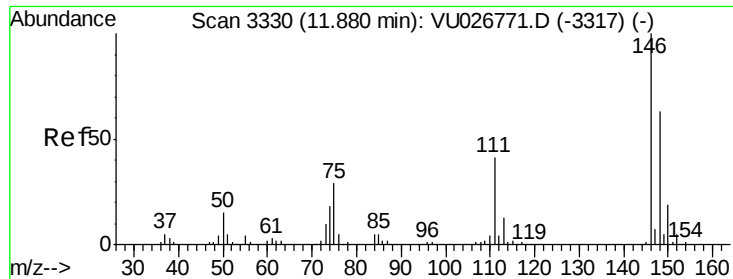


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.068 ug/L

RT: 11.88 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampled :

C0D10

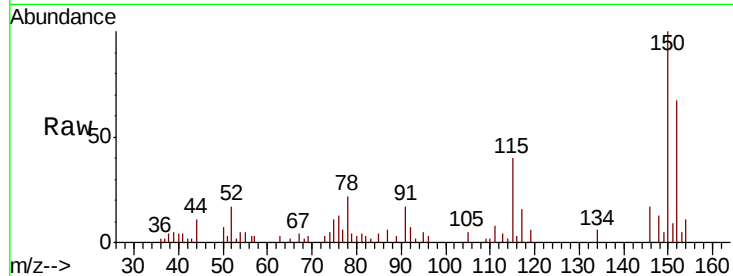
Tgt Ion:146 Resp: 1790

Ion Ratio Lower Upper

146 100

111 43.5 32.5 48.7

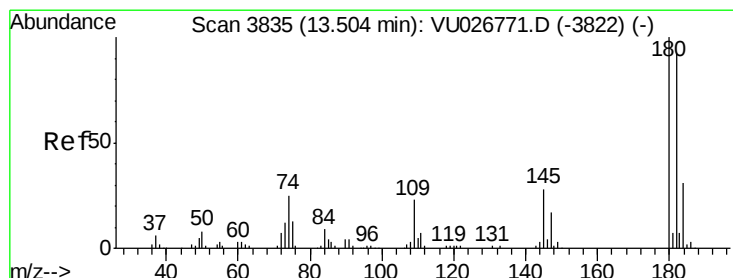
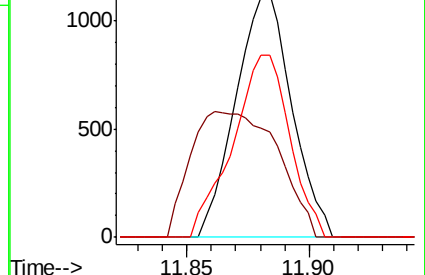
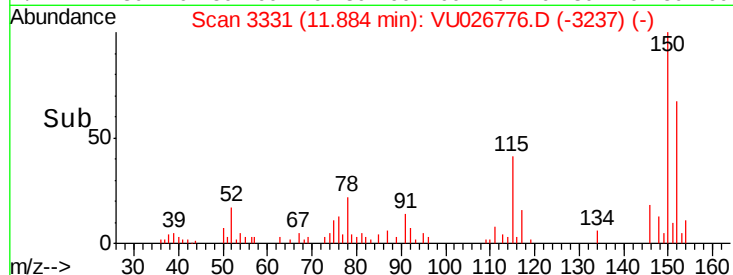
148 74.8 50.5 75.7



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

1,2,4-trichlorobenzene

Concen: 0.124 ug/L

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

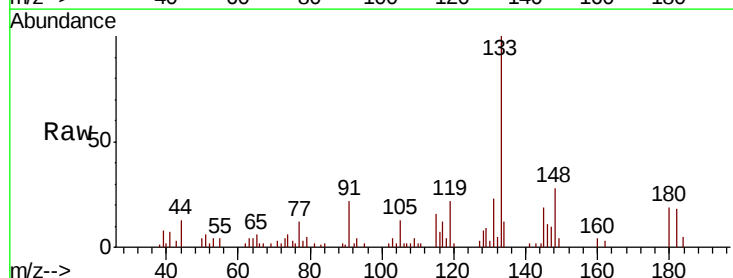
Tgt Ion:180 Resp: 2150

Ion Ratio Lower Upper

180 100

182 90.5 74.7 112.1

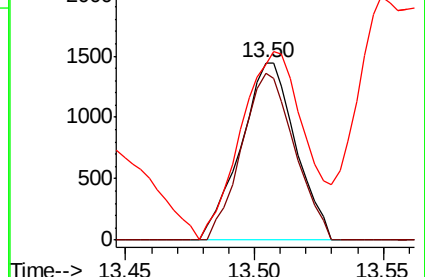
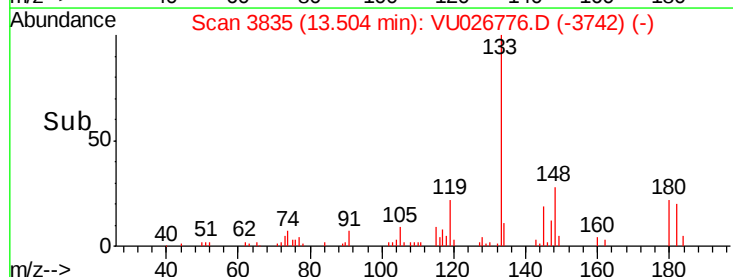
145 125.4 22.3 33.5#

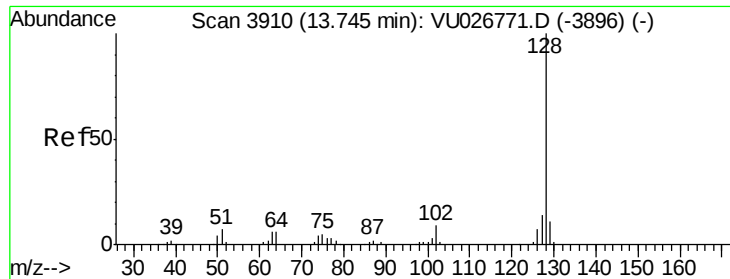


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.156 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

Instrument :

MSVOA_U

ClientSampleId :

C0D10

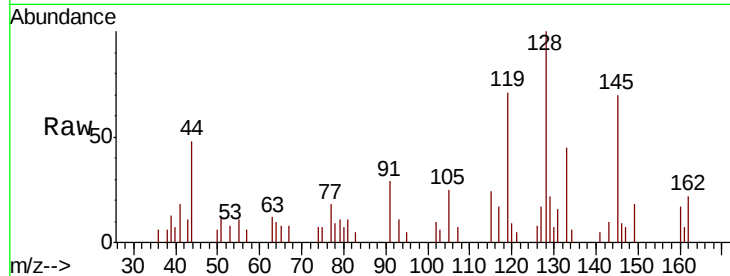
Tgt Ion:128 Resp: 3879

Ion Ratio Lower Upper

128 100

129 32.4 8.6 12.8#

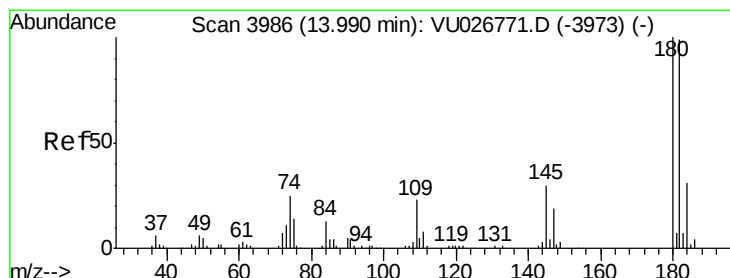
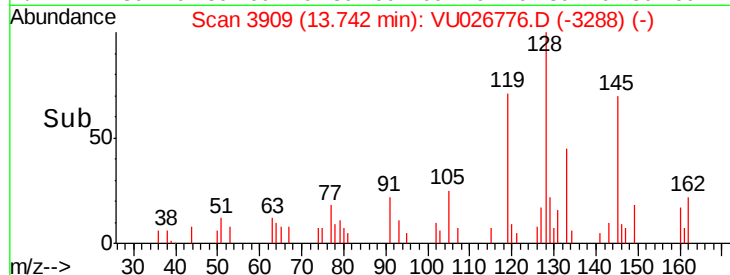
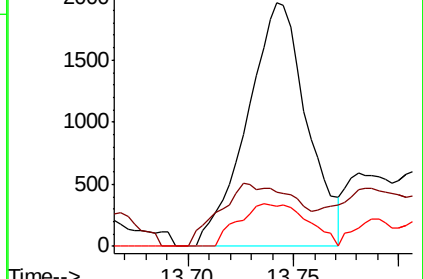
127 19.9 10.8 16.2#



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: 0.074 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU026776.D

Acq: 15 Sep 2018 14:30

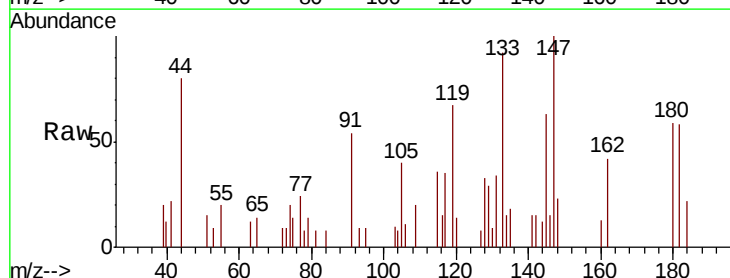
Tgt Ion:180 Resp: 1218

Ion Ratio Lower Upper

180 100

182 98.2 77.0 115.6

145 914.8 23.4 35.2#



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

