

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071718\
 Data File : VR025489.D
 Acq On : 17 Jul 2018 12:07
 Operator : SY/MD
 Sample : J4002-03
 Misc : 25mL/MSVOA_R/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 C0AG0

Quant Time: Jul 18 01:04:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 18 01:02:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	587825	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	291651	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	176138	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	73958	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	2.62	69	61453	4.45	ug/L	-0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.00%
11) 1,1-Dichloroethene-d2	3.63	63	160818	3.28	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.60%
20) 2-Butanone-d5	6.59	46	163369	32.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	64.92%
24) Chloroform-d	7.21	84	346783	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	7.89	65	128819	4.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.80%
32) Benzene-d6	7.86	84	840590	8.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	172.20%#
36) 1,2-Dichloropropane-d6	8.90	67	203742	7.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	144.00%#
41) Toluene-d8	9.97	98	880552	10.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	205.60%#
43) trans-1,3-Dichloropropene-	10.24	79	53122	7.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	141.60%#
46) 2-Hexanone-d5	10.59	63	157094	64.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.58%
57) 1,1,2,2-Tetrachloroethane-	12.38	84	116695	9.22	ug/L	0.02
Spiked Amount	5.000	Range	65 - 120	Recovery	=	184.40%#
64) 1,2-Dichlorobenzene-d4	13.51	152	146958	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Qvalue
13) Acetone	3.73	43	168875	74.468 ug/L	73
14) Carbon disulfide	3.95	76	34085	0.852 ug/L #	93
15) Methyl Acetate	4.42	43	2732701	538.583 ug/L #	55
16) Methylene chloride	4.42	84	19752	1.147 ug/L #	1
21) 2-Butanone	6.69	43	528052	99.963 ug/L #	51
27) 1,2-Dichloroethane	8.04	62	12761	0.395 ug/L #	1
30) Cyclohexane	7.52	56	3956696	124.327 ug/L	89
33) Benzene	7.91	78	110811	1.102 ug/L	100
34) Trichloroethene	8.72	95	10754	0.420 ug/L #	16
35) Methylcyclohexane	8.96	83	4923895	143.904 ug/L #	69
37) 1,2-Dichloropropane	8.96	63	107148	4.585 ug/L #	1
38) Bromodichloromethane	9.26	83	132418	5.560 ug/L #	23
40) 4-Methyl-2-pentanone	9.79	43	2130024	314.539 ug/L #	45
42) Toluene	10.04	91	28306	0.290 ug/L	88
45) 1,1,2-Trichloroethane	10.42	97	1834832	160.259 ug/L #	24
48) 2-Hexanone	10.61	43	2088063	448.244 ug/L #	21
49) Dibromochloromethane	11.01	129	4331	0.363 ug/L	90

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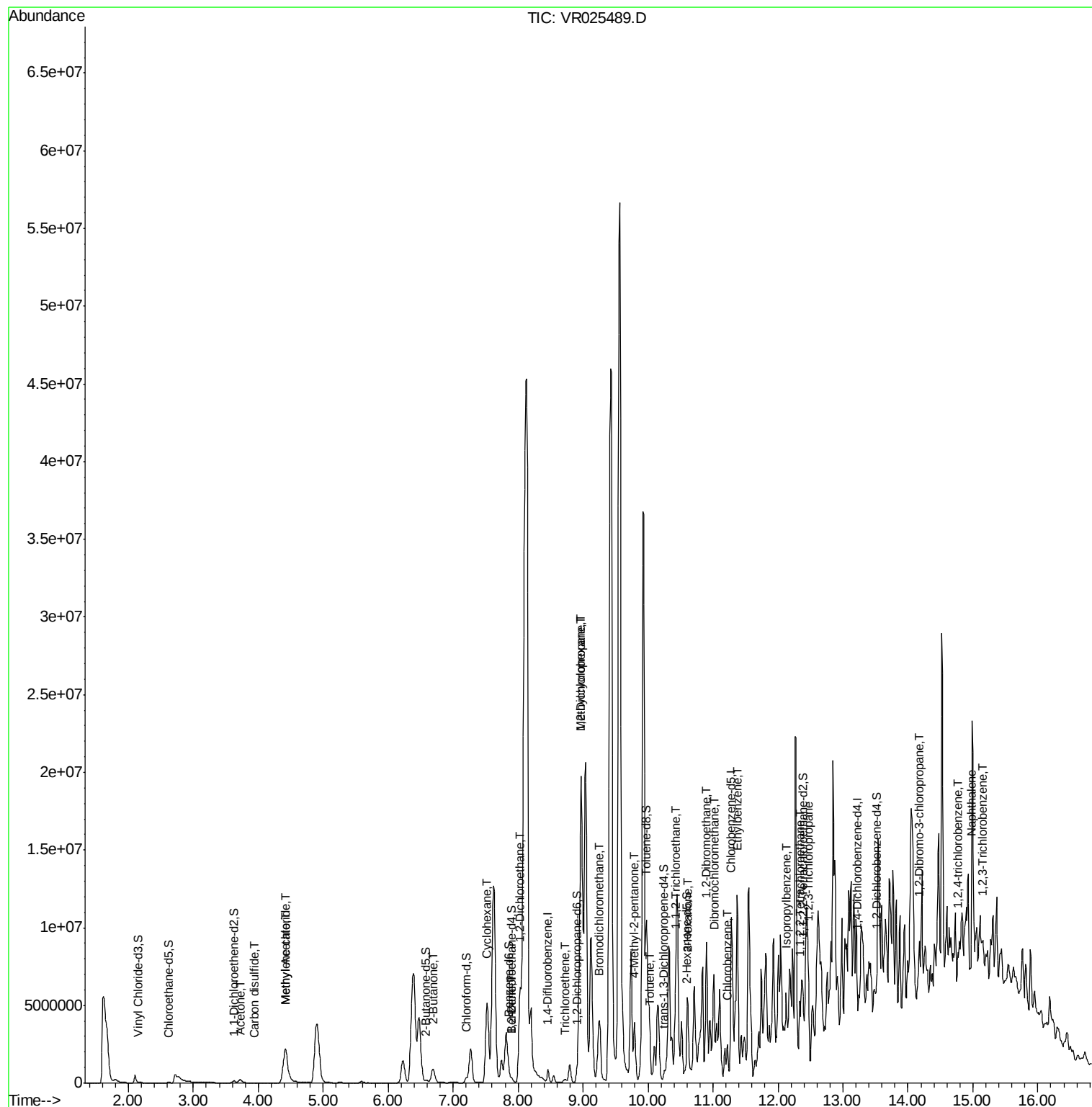
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	10.90	107	2235	0.241	ug/L #	1
51) Chlorobenzene	11.21	112	14716	0.247	ug/L #	56
52) Ethylbenzene	11.38	91	29181	0.278	ug/L #	50
56) Isopropylbenzene	12.13	105	1587840	17.697	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.34	83	165660	14.690	ug/L #	90
59) 1,2,3-Trichloropropane	12.47	75	16132	1.987	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.17	75	10604	5.345	ug/L #	24
68) 1,2,4-trichlorobenzene	14.77	180	5872	0.253	ug/L #	1
69) Naphthalene	14.97	128	74249	2.502	ug/L #	1
70) 1,2,3-Trichlorobenzene	15.16	180	47687	2.669	ug/L #	1

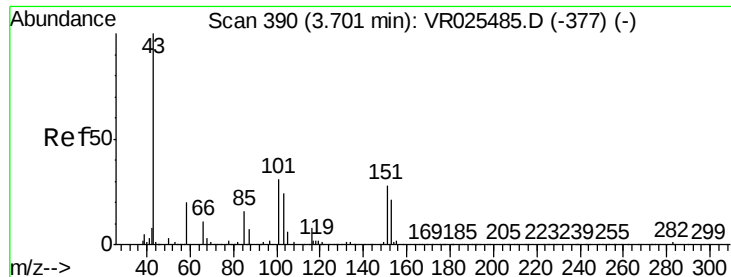
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 74.468 ug/L

RT: 3.73 min Scan# 394

Delta R.T. 0.02 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

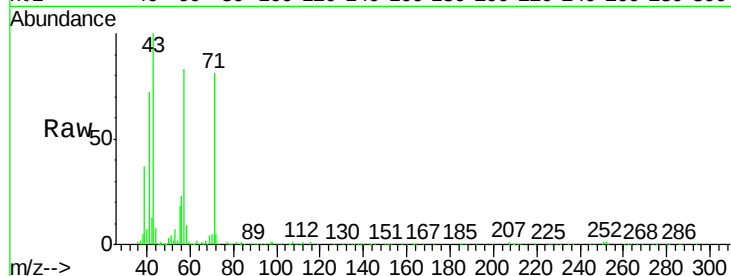
Instrument :
MSVOA_R
ClientSampleId :
C0AG0

Tgt Ion: 43 Resp: 168875

Ion Ratio Lower Upper

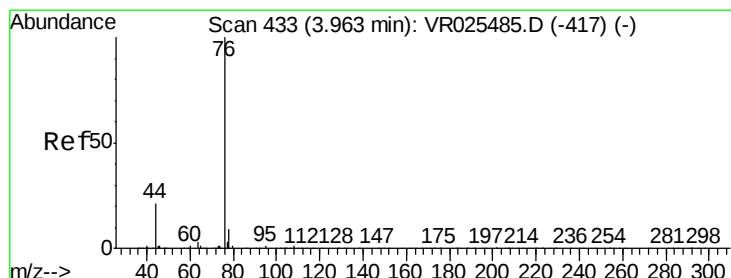
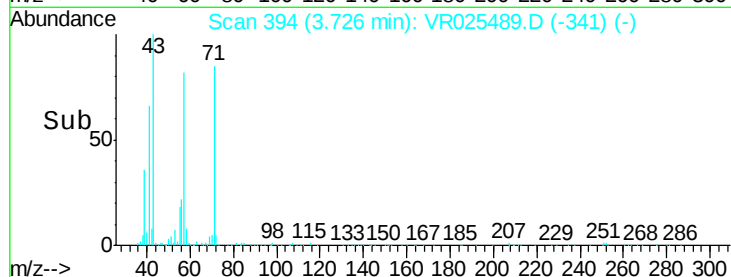
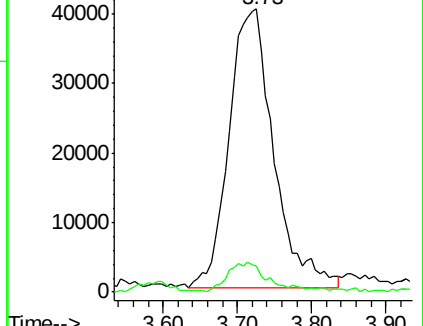
43 100

58 8.1 0.0 41.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0



#14

Carbon disulfide

Concen: 0.852 ug/L

RT: 3.95 min Scan# 431

Delta R.T. -0.01 min

Lab File: VR025489.D

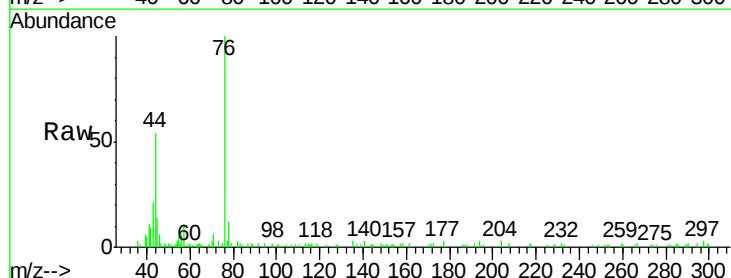
Acq: 17 Jul 2018 12:07

Tgt Ion: 76 Resp: 34085

Ion Ratio Lower Upper

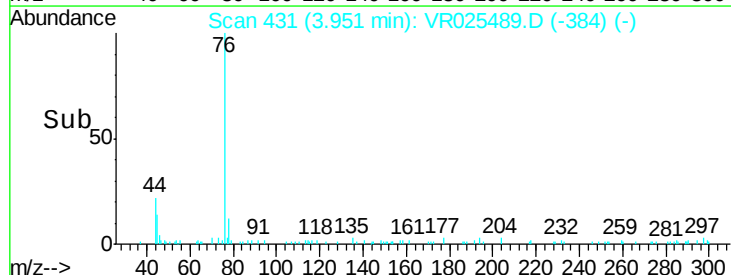
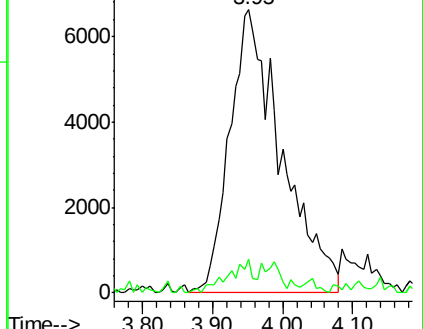
76 100

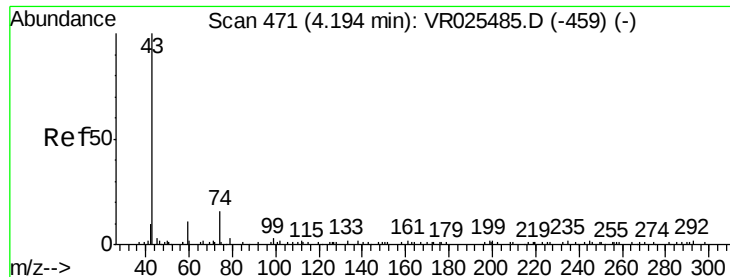
78 12.0 7.4 11.2#



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

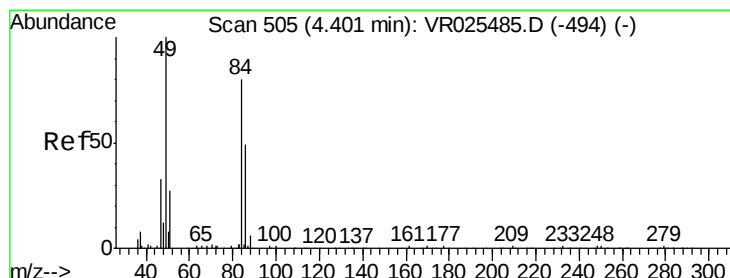
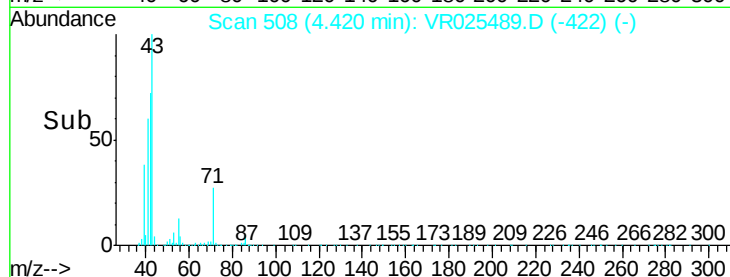
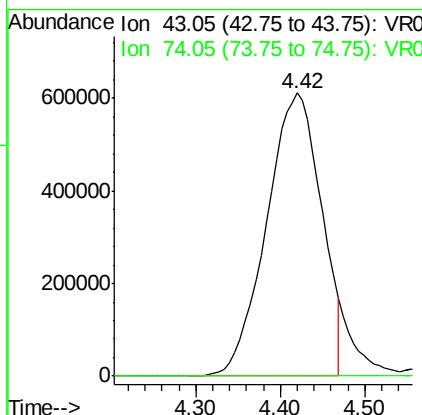
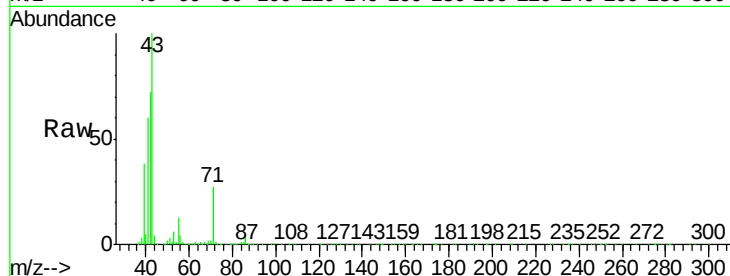




#15
Methyl Acetate
Concen: 538.583 ug/L
RT: 4.42 min Scan# 508
Delta R.T. 0.23 min
Lab File: VR025489.D
Acq: 17 Jul 2018 12:07

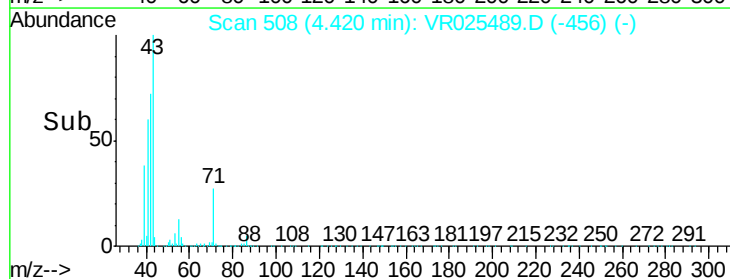
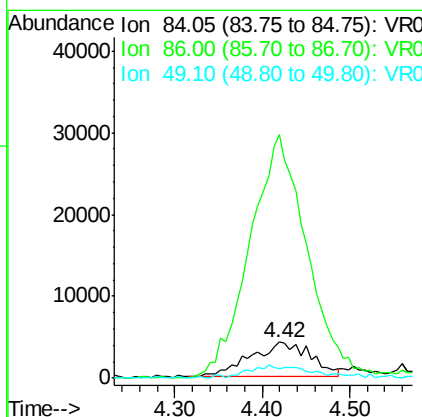
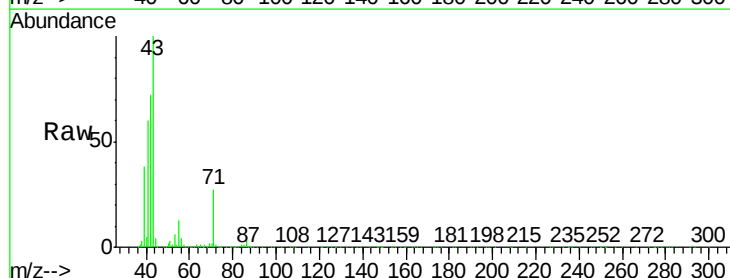
Instrument :
MSVOA_R
ClientSampleId :
C0AG0

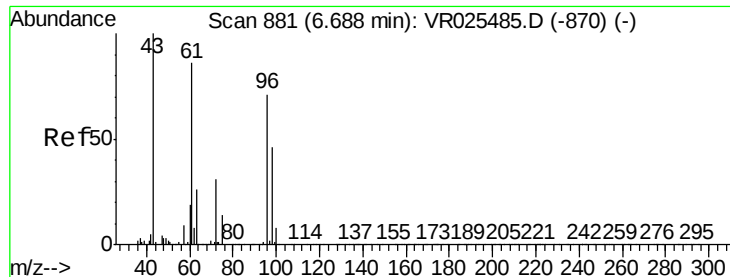
Tgt Ion: 43 Resp: 2732701
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#16
Methylene chloride
Concen: 1.147 ug/L
RT: 4.42 min Scan# 508
Delta R.T. 0.02 min
Lab File: VR025489.D
Acq: 17 Jul 2018 12:07

Tgt Ion: 84 Resp: 19752
Ion Ratio Lower Upper
84 100
86 675.3 43.7 81.1#
49 25.0 87.2 162.0#





#21

2-Butanone

Concen: 99.963 ug/L

RT: 6.69 min Scan# 881

Delta R.T. 0.00 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

Instrument :

MSVOA_R

ClientSampled :

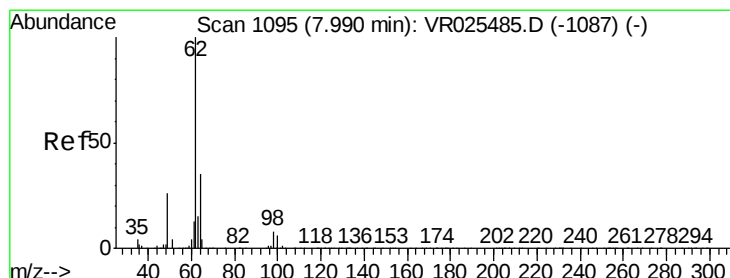
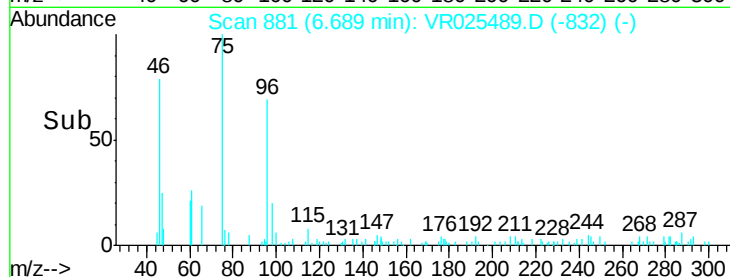
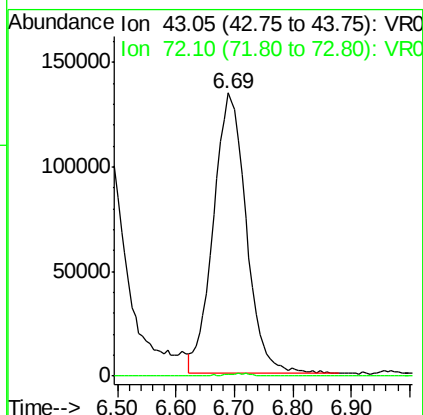
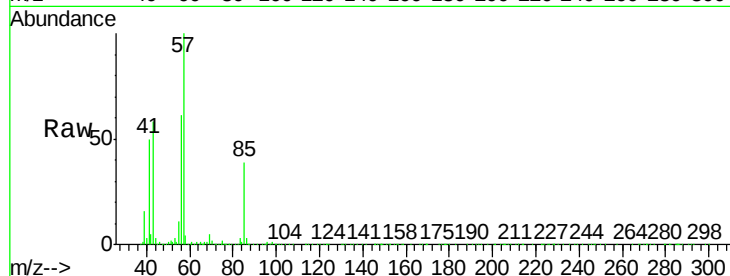
C0AG0

Tgt Ion: 43 Resp: 528052

Ion Ratio Lower Upper

43 100

72 0.8 13.0 38.9#



#27

1,2-Dichloroethane

Concen: 0.395 ug/L

RT: 8.04 min Scan# 1103

Delta R.T. 0.05 min

Lab File: VR025489.D

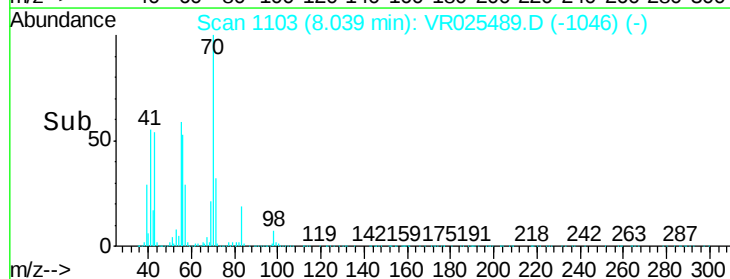
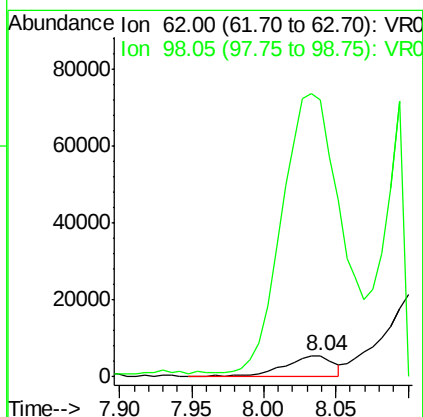
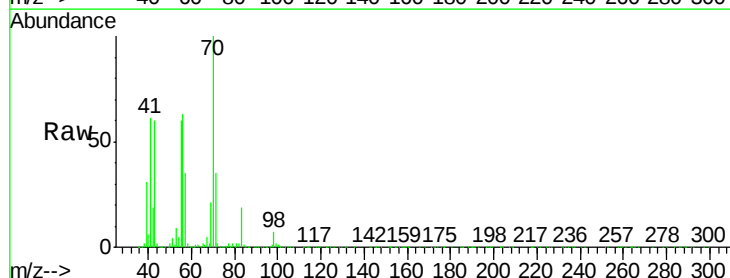
Acq: 17 Jul 2018 12:07

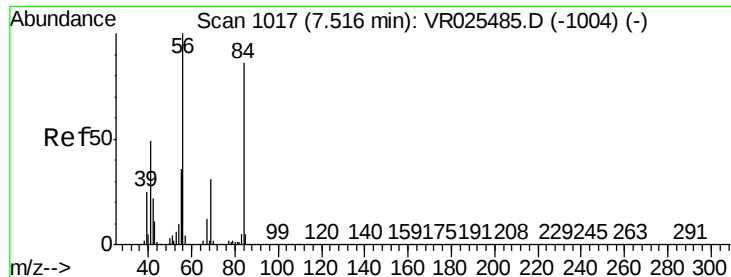
Tgt Ion: 62 Resp: 12761

Ion Ratio Lower Upper

62 100

98 1309.0 5.4 8.2#

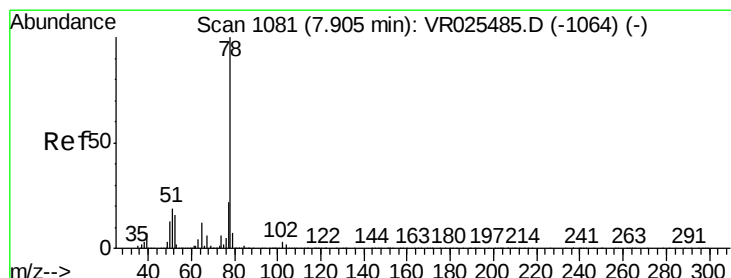
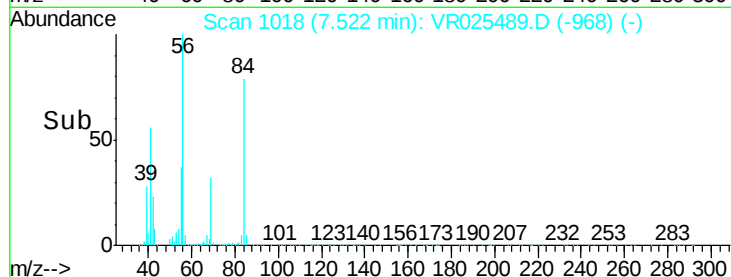
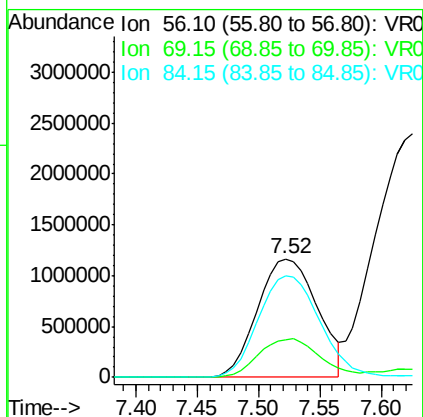
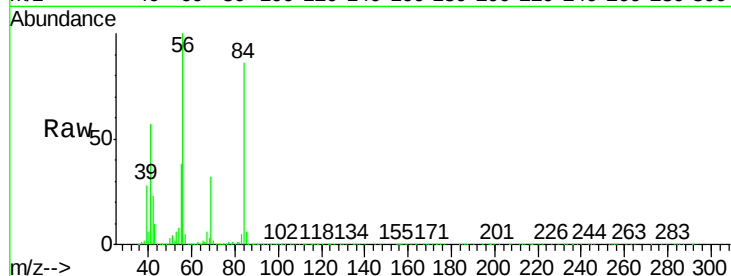




#30
Cyclohexane
Concen: 124.327 ug/L
RT: 7.52 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VR025489.D
Acq: 17 Jul 2018 12:07

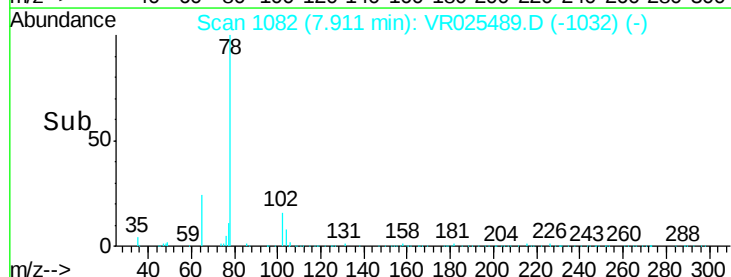
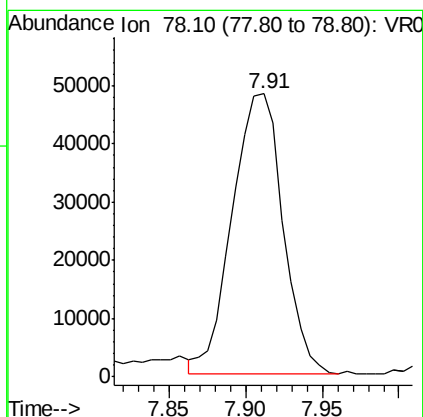
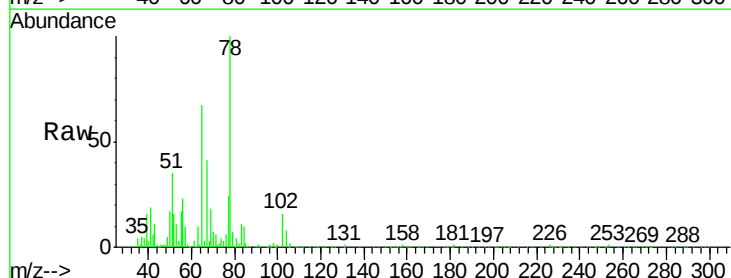
Instrument :
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C0AG0

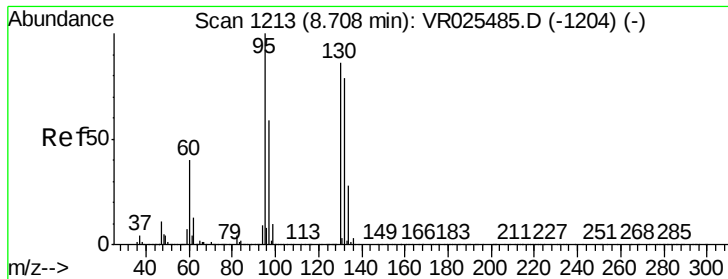
Tgt Ion: 56 Resp: 3956696
Ion Ratio Lower Upper
56 100
69 33.0 23.7 35.5
84 88.8 62.6 93.8



#33
Benzene
Concen: 1.102 ug/L
RT: 7.91 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VR025489.D
Acq: 17 Jul 2018 12:07

Tgt Ion: 78 Resp: 110811

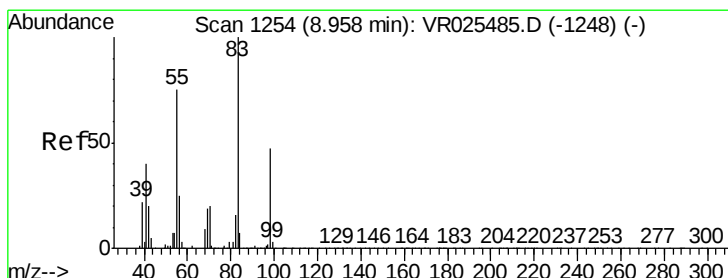
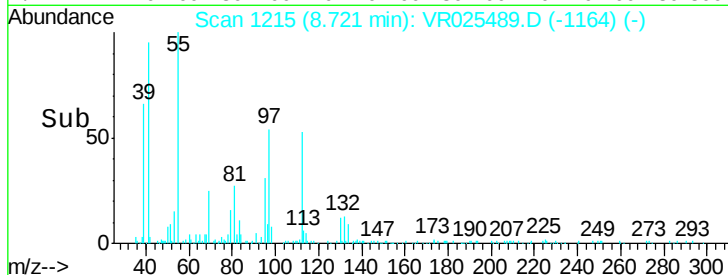
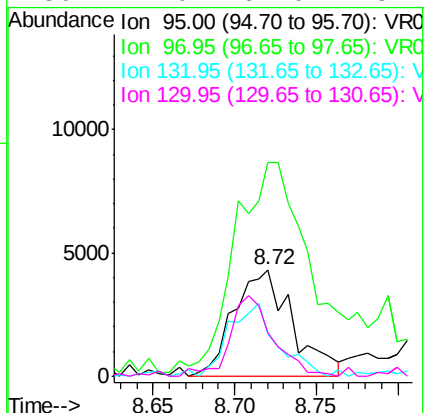
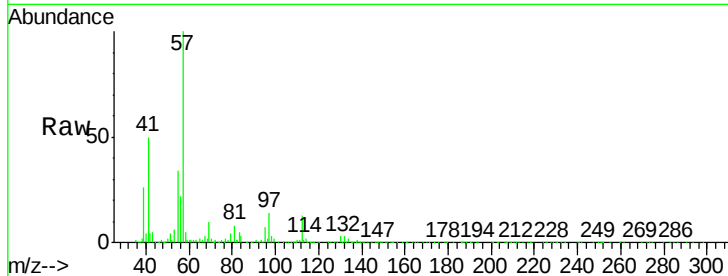




#34
 Trichloroethene
 Concen: 0.420 ug/L
 RT: 8.72 min Scan# 1215
 Delta R.T. 0.01 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

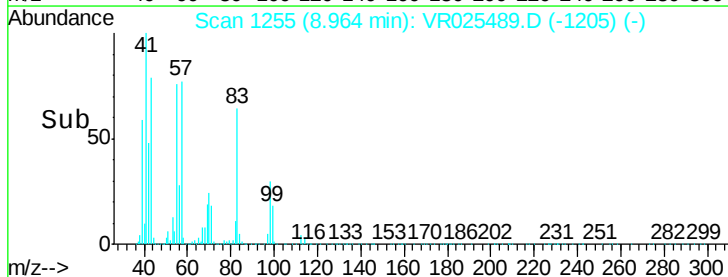
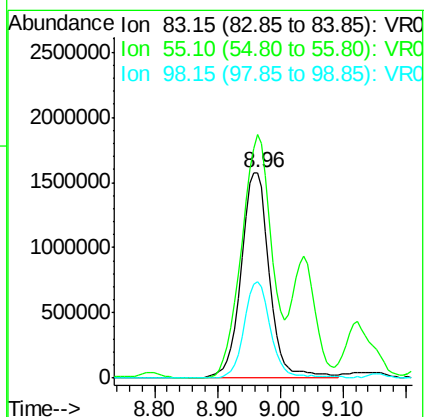
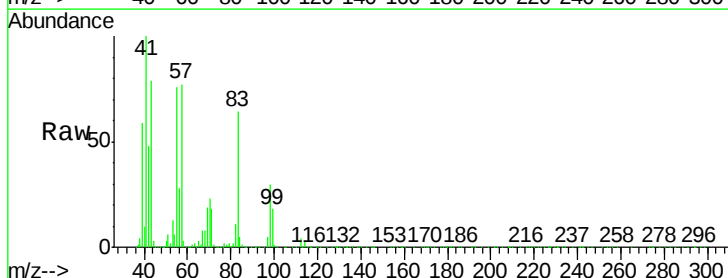
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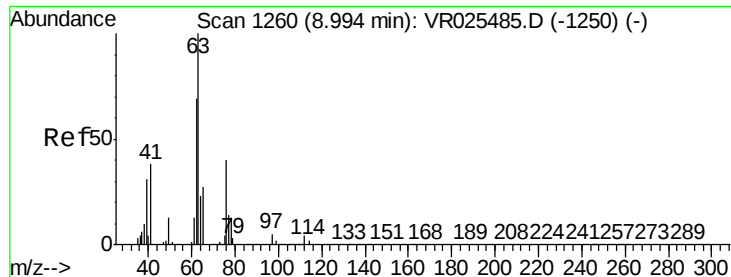
Tgt Ion: 95 Resp: 10754
 Ion Ratio Lower Upper
 95 100
 97 200.7 45.6 84.6#
 132 40.1 60.9 113.1#
 130 41.0 62.0 115.2#



#35
 Methylcyclohexane
 Concen: 143.904 ug/L
 RT: 8.96 min Scan# 1255
 Delta R.T. 0.01 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

Tgt Ion: 83 Resp: 4923895
 Ion Ratio Lower Upper
 83 100
 55 125.5 66.1 99.1#
 98 44.5 36.2 54.4





#37

1,2-Dichloropropane

Concen: 4.585 ug/L

RT: 8.96 min Scan# 1255

Delta R.T. -0.03 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

Instrument :

MSVOA_R

ClientSampleId :

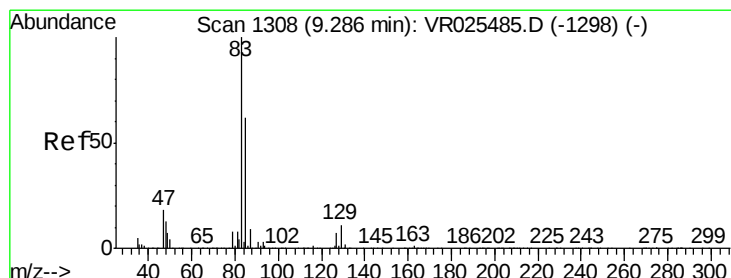
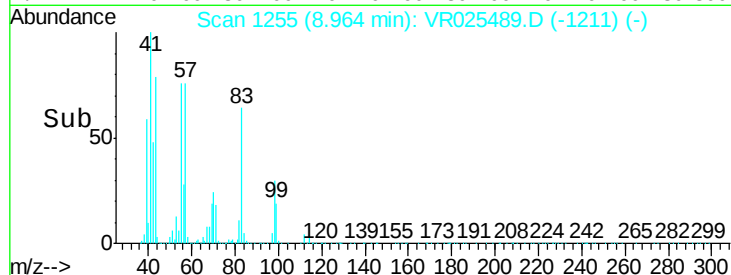
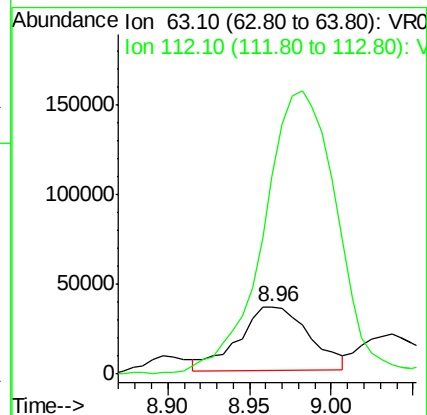
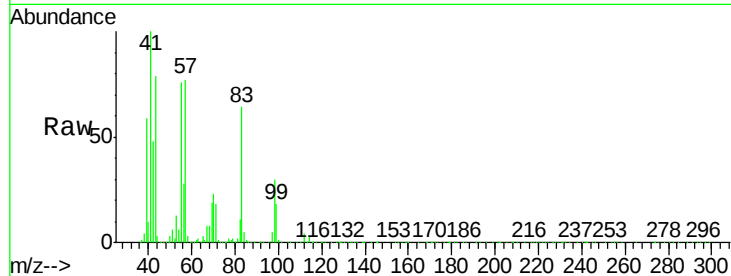
C0AG0

Tgt Ion: 63 Resp: 107148

Ion Ratio Lower Upper

63 100

112 456.2 2.9 4.3#



#38

Bromodichloromethane

Concen: 5.560 ug/L

RT: 9.26 min Scan# 1303

Delta R.T. -0.03 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

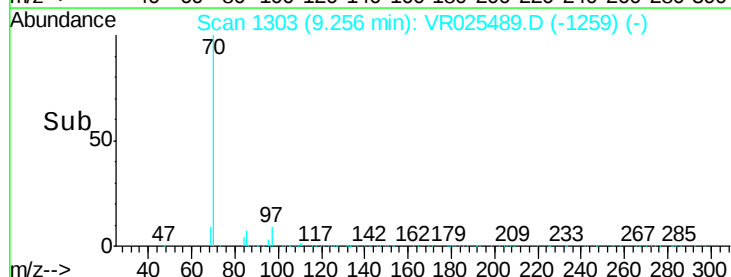
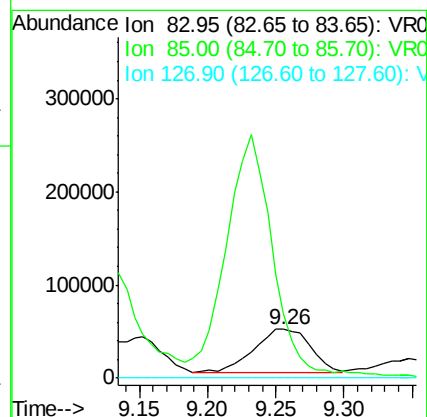
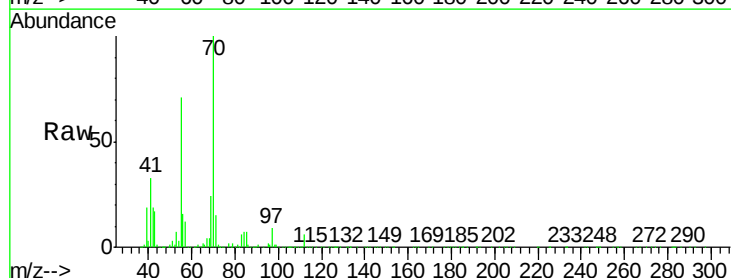
Tgt Ion: 83 Resp: 132418

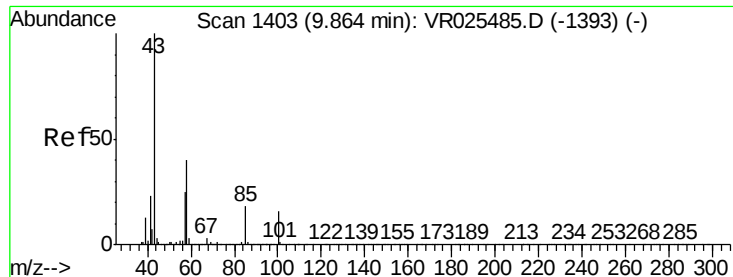
Ion Ratio Lower Upper

83 100

85 131.8 46.1 85.7#

127 0.4 5.7 8.5#

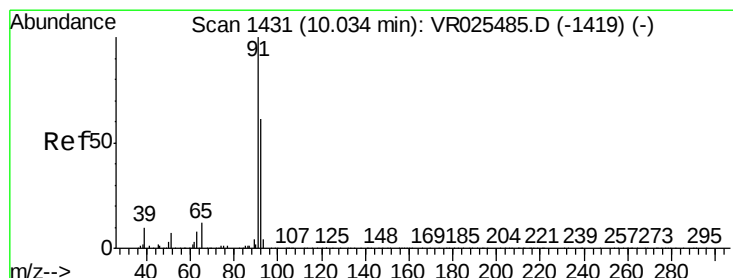
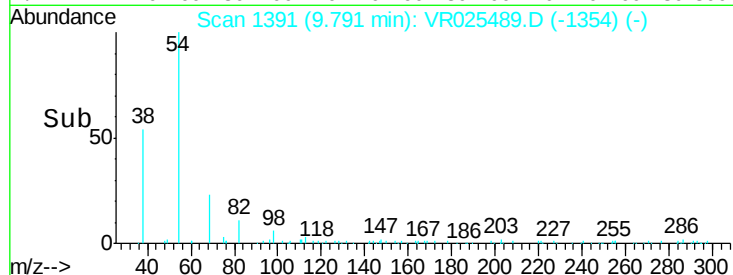
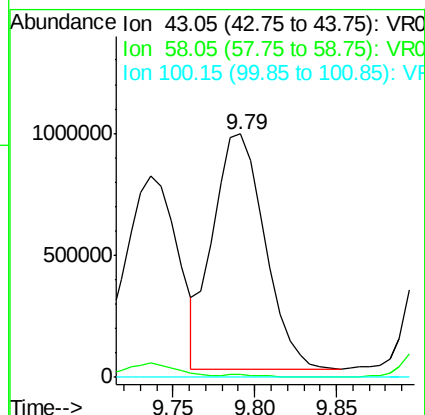
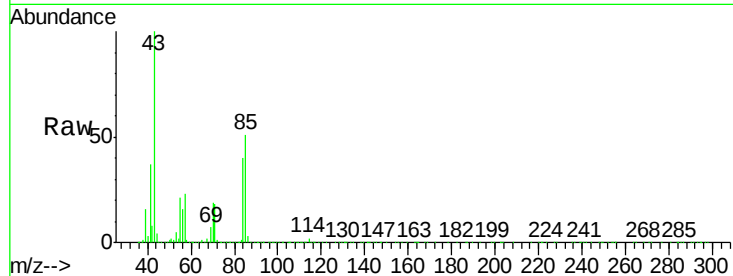




#40
4-Methyl-2-pentanone
Concen: 314.539 ug/L
RT: 9.79 min Scan# 1391
Delta R.T. -0.07 min
Lab File: VR025489.D
Acq: 17 Jul 2018 12:07

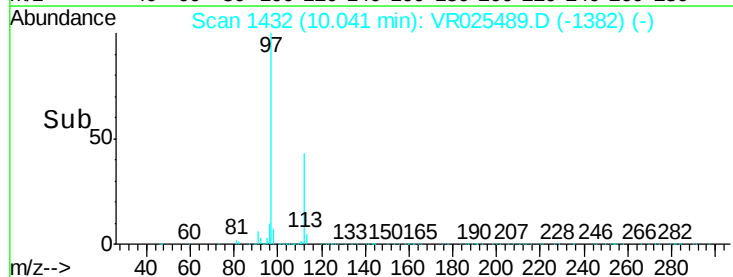
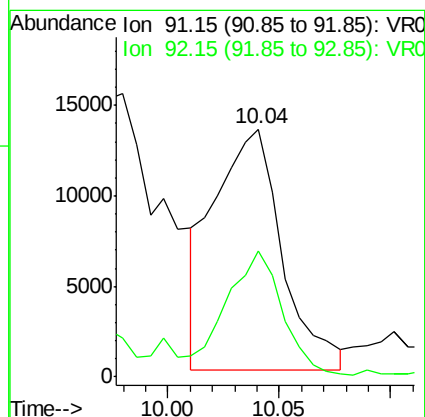
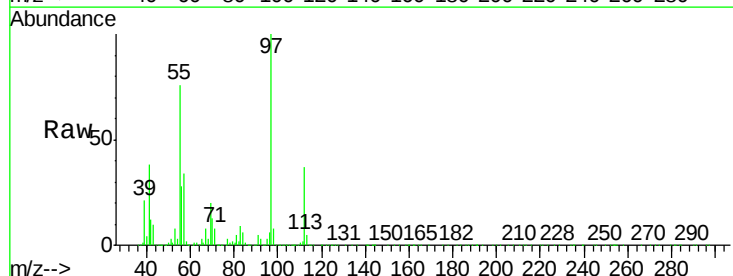
Instrument :
MSVOA_R
ClientSampled :
C0AG0

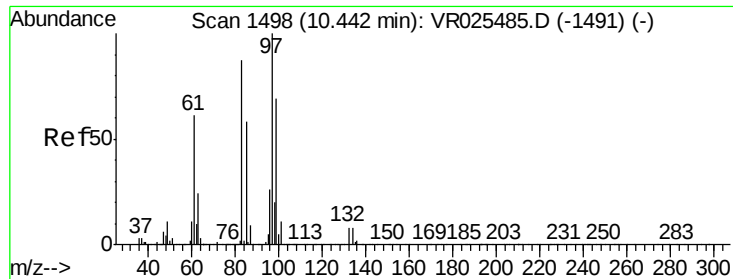
Tgt Ion: 43 Resp: 2130024
Ion Ratio Lower Upper
43 100
58 0.0 30.3 45.5#
100 0.0 10.3 15.5#



#42
Toluene
Concen: 0.290 ug/L
RT: 10.04 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VR025489.D
Acq: 17 Jul 2018 12:07

Tgt Ion: 91 Resp: 28306
Ion Ratio Lower Upper
91 100
92 50.9 41.9 77.7

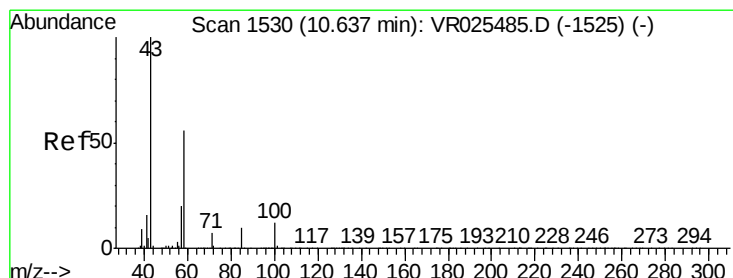
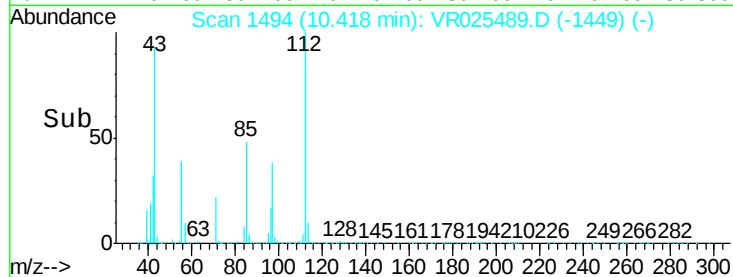
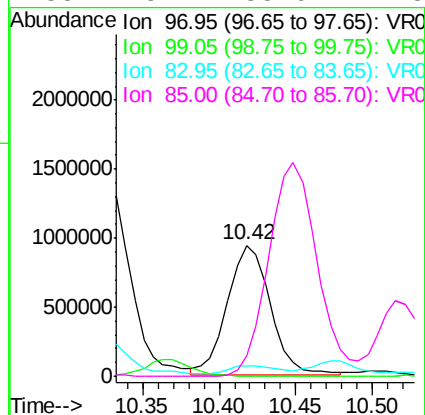
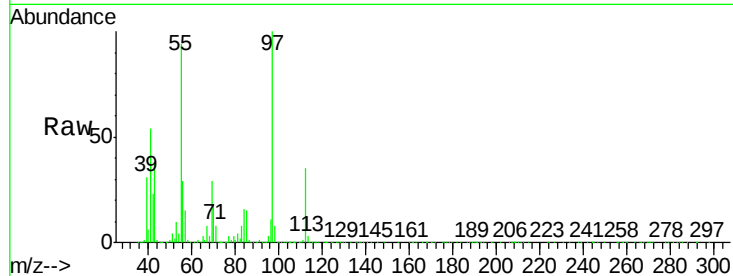




#45
 1,1,2-Trichloroethane
 Concen: 160.259 ug/L
 RT: 10.42 min Scan# 1494
 Delta R.T. -0.02 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

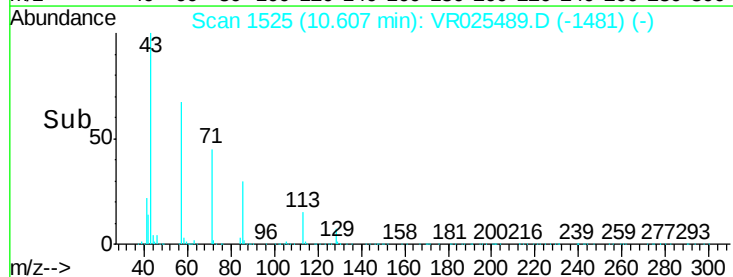
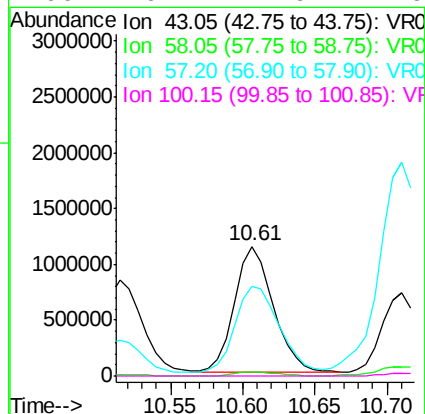
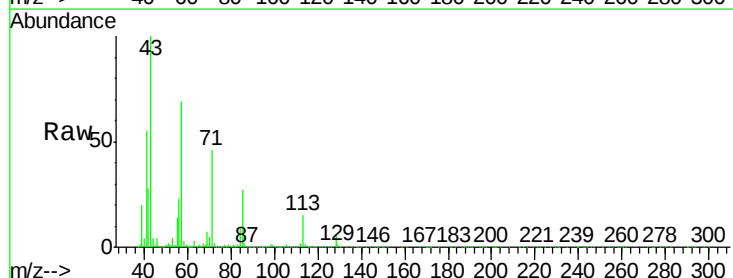
Instrument :
 MSVOA_R
 ClientSampleId :
 C0AG0

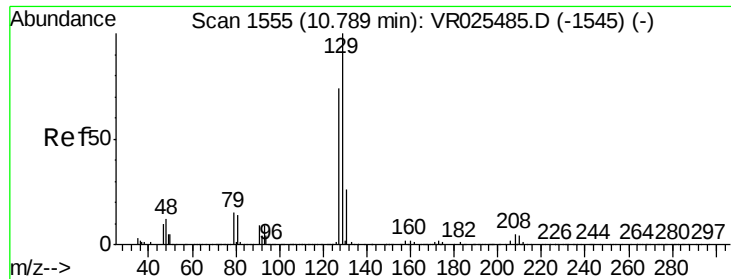
Tgt Ion: 97 Resp: 1834832
 Ion Ratio Lower Upper
 97 100
 99 0.5 41.9 77.9#
 83 8.3 64.5 119.9#
 85 15.4 38.6 71.8#



#48
 2-Hexanone
 Concen: 448.244 ug/L
 RT: 10.61 min Scan# 1525
 Delta R.T. -0.03 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

Tgt Ion: 43 Resp: 2088063
 Ion Ratio Lower Upper
 43 100
 58 3.9 43.1 64.7#
 57 78.1 15.3 22.9#
 100 0.2 7.9 11.9#





#49

Dibromochloromethane

Concen: 0.363 ug/L

RT: 11.01 min Scan# 1592

Delta R.T. 0.23 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

Instrument :

MSVOA_R

ClientSampleId :

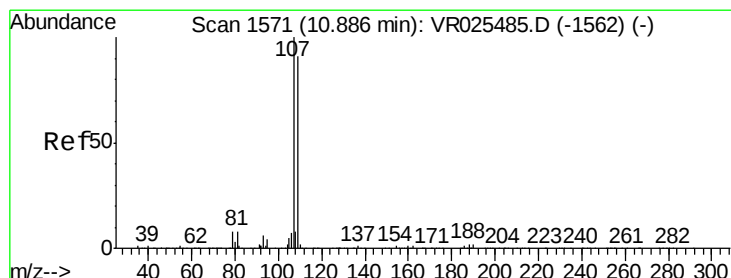
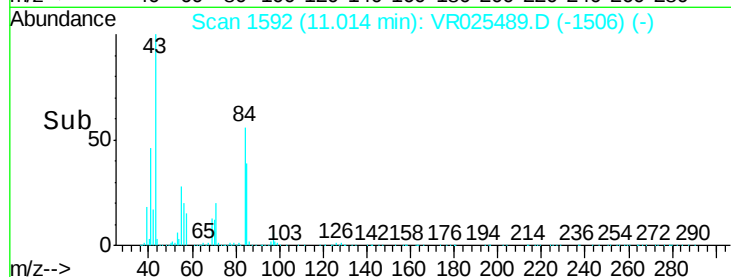
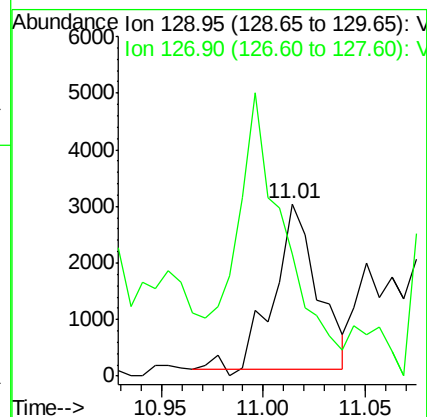
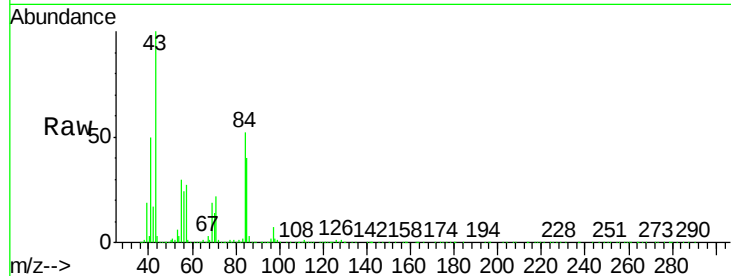
C0AG0

Tgt Ion:129 Resp: 4331

Ion Ratio Lower Upper

129 100

127 71.3 55.9 103.7



#50

1,2-Dibromoethane

Concen: 0.241 ug/L

RT: 10.90 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

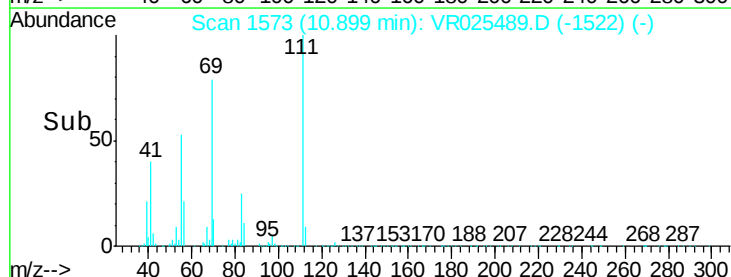
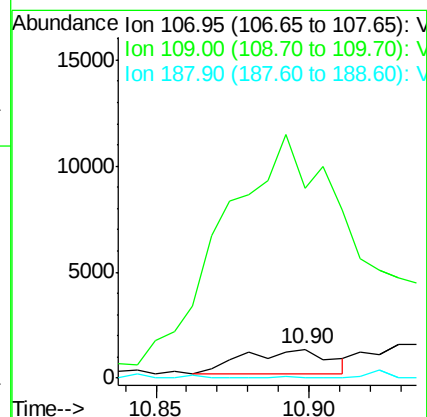
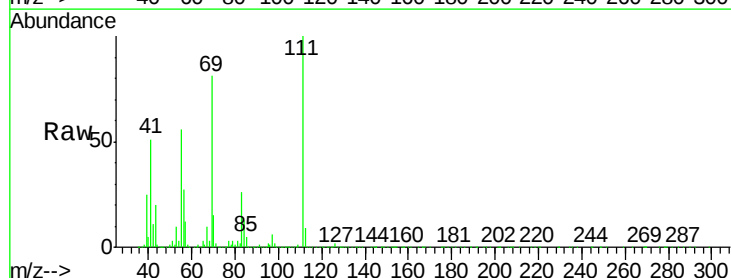
Tgt Ion:107 Resp: 2235

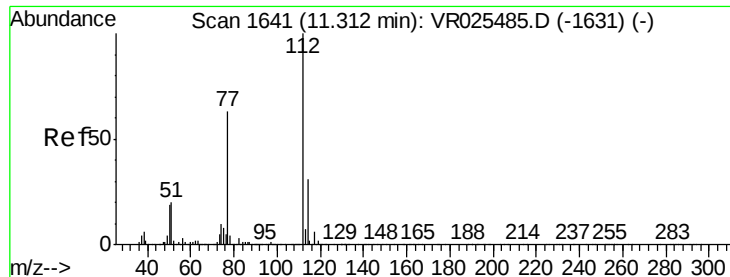
Ion Ratio Lower Upper

107 100

109 664.1 63.1 117.3#

188 9.0 1.8 2.8#





#51

Chlorobenzene

Concen: 0.247 ug/L

RT: 11.21 min Scan# 1625

Delta R.T. -0.10 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

Instrument :

MSVOA_R

ClientSampleId :

C0AG0

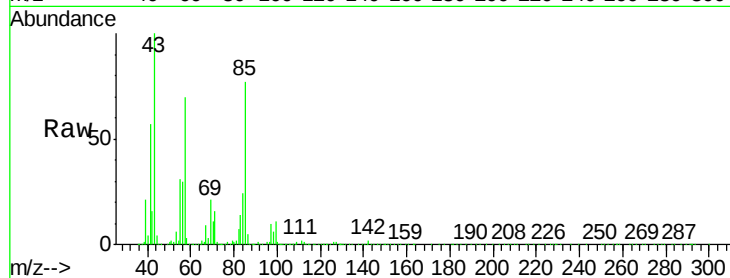
Tgt Ion: 112 Resp: 14716

Ion Ratio Lower Upper

112 100

114 7.4 21.6 40.0#

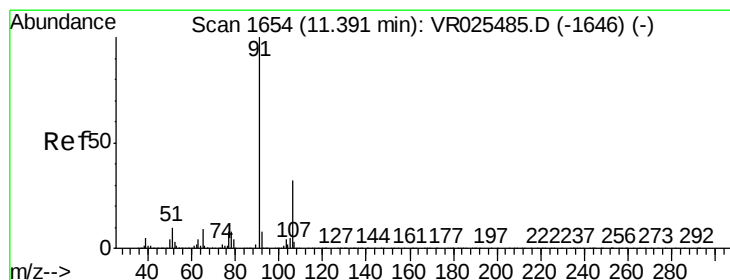
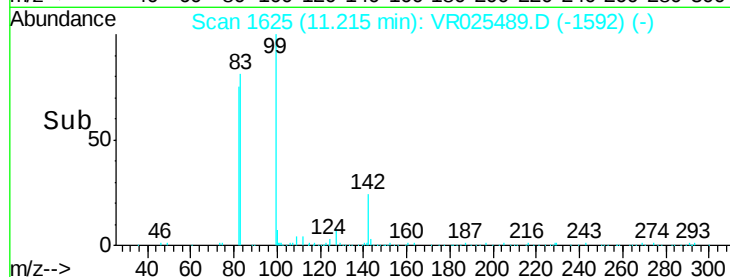
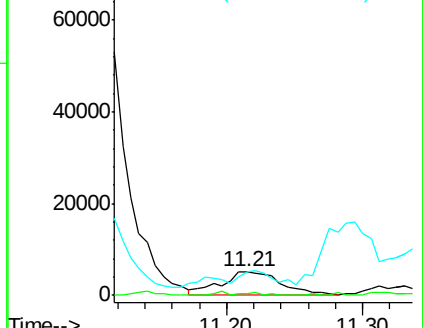
77 100.3 51.9 77.9#



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): VR0



#52

Ethylbenzene

Concen: 0.278 ug/L

RT: 11.38 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VR025489.D

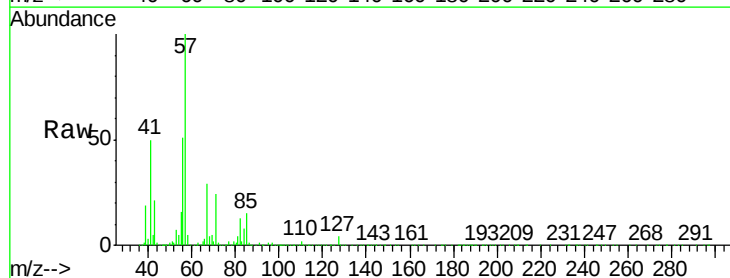
Acq: 17 Jul 2018 12:07

Tgt Ion: 91 Resp: 29181

Ion Ratio Lower Upper

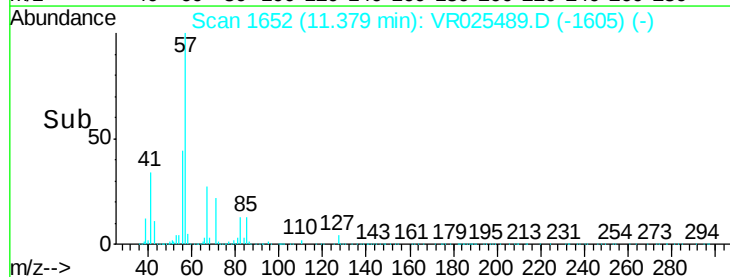
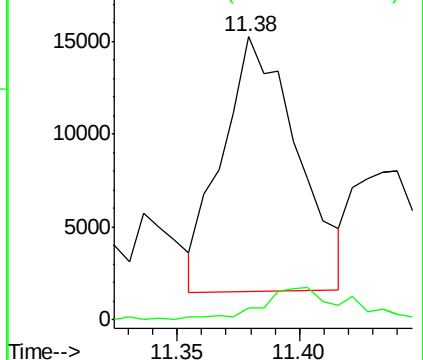
91 100

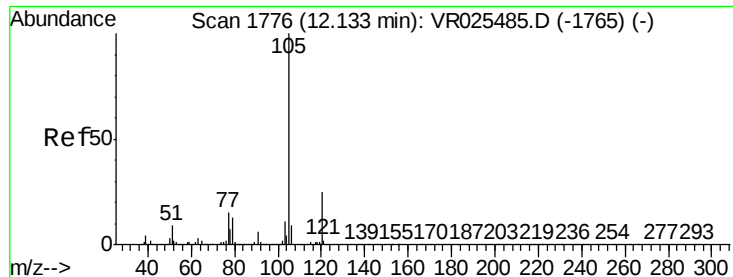
106 4.0 22.5 41.7#



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V





#56

Isopropylbenzene

Concen: 17.697 ug/L

RT: 12.13 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

Instrument :

MSVOA_R

ClientSampled :

C0AG0

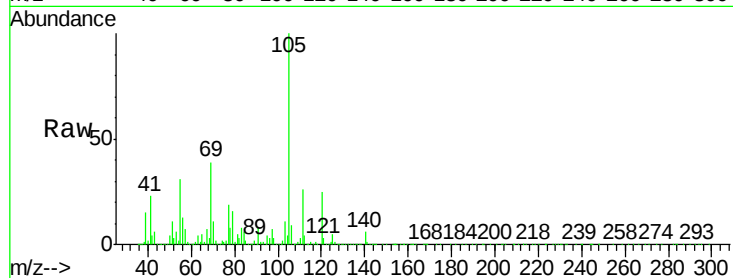
Tgt Ion:105 Resp: 1587840

Ion Ratio Lower Upper

105 100

120 25.1 20.2 30.4

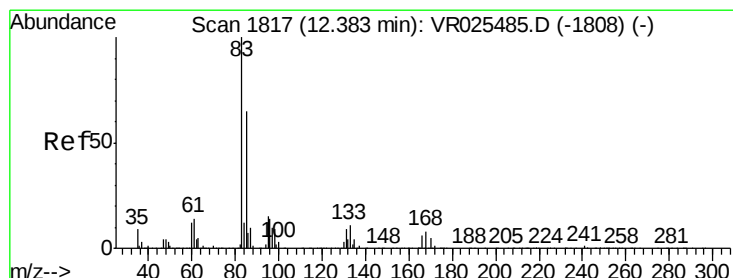
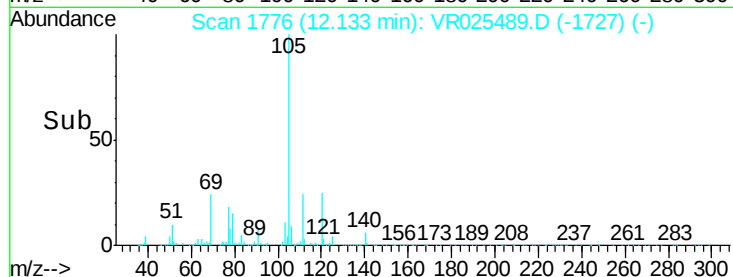
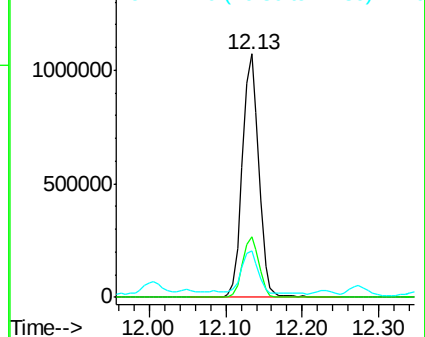
77 17.8 13.0 19.6



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: 14.690 ug/L

RT: 12.34 min Scan# 1810

Delta R.T. -0.04 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

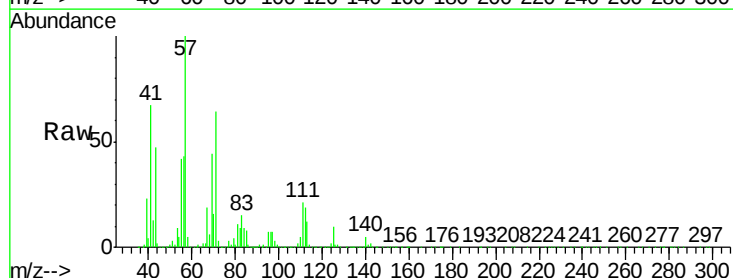
Tgt Ion: 83 Resp: 165660

Ion Ratio Lower Upper

83 100

85 53.6 41.8 77.6

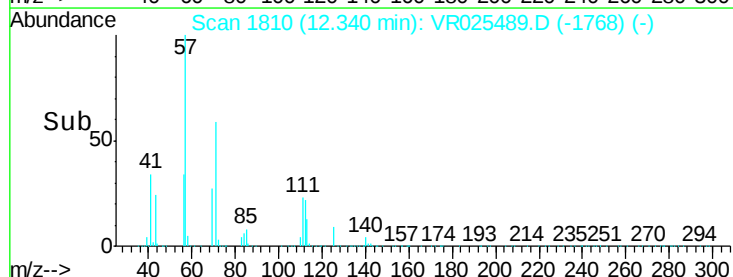
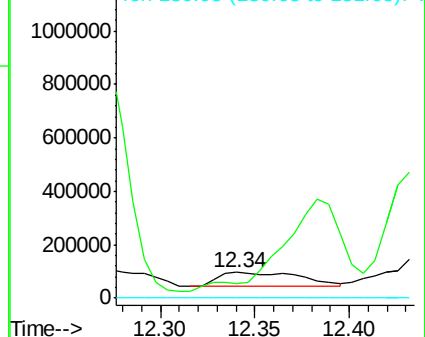
131 0.3 6.1 9.1#

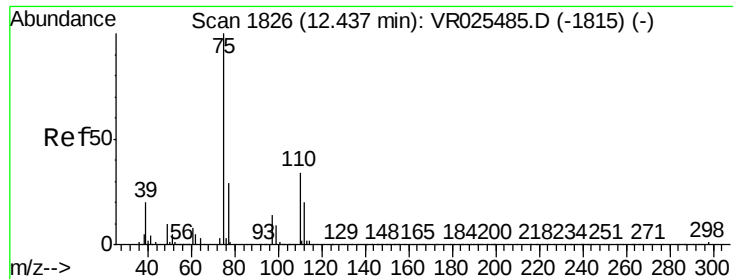


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 1.987 ug/L

RT: 12.47 min Scan# 1832

Delta R.T. 0.04 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

Instrument :

MSVOA_R

ClientSampleID :

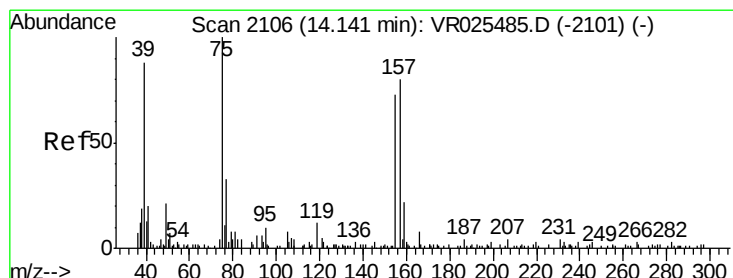
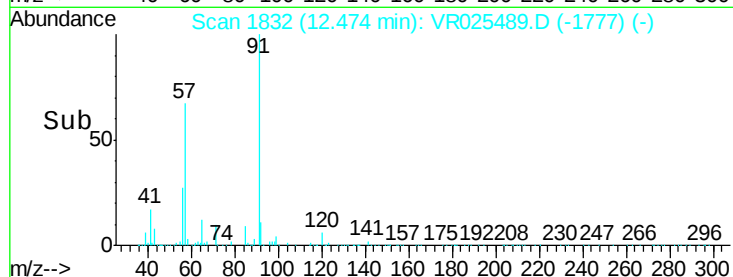
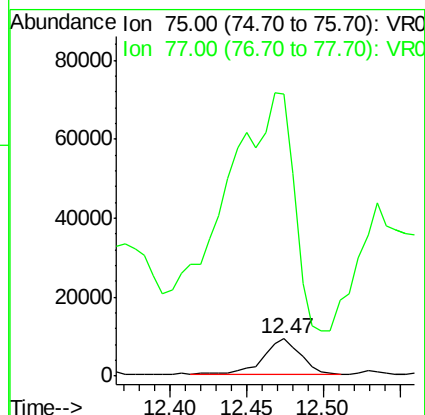
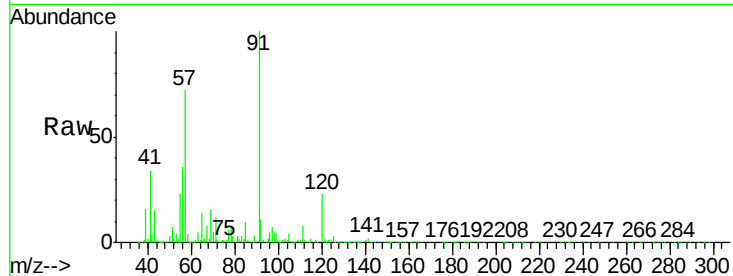
C0AG0

Tgt Ion: 75 Resp: 16132

Ion Ratio Lower Upper

75 100

77 1147.9 27.0 40.4#



#66

1,2-Dibromo-3-chloropropane

Concen: 5.345 ug/L

RT: 14.17 min Scan# 2111

Delta R.T. 0.03 min

Lab File: VR025489.D

Acq: 17 Jul 2018 12:07

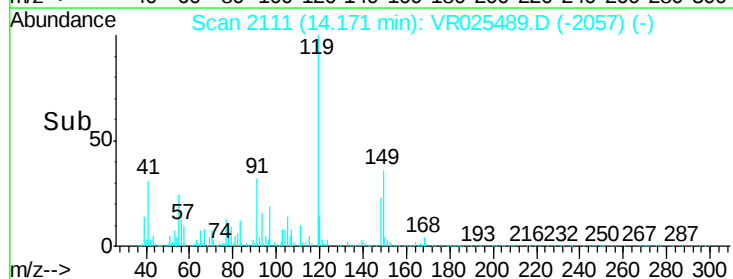
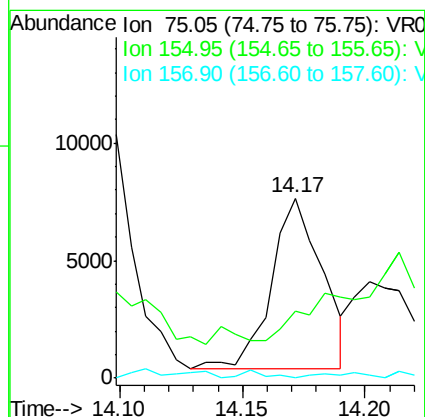
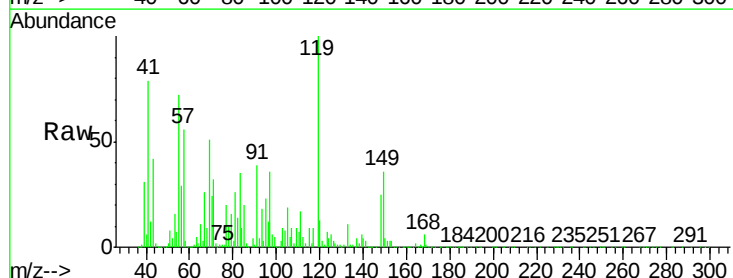
Tgt Ion: 75 Resp: 10604

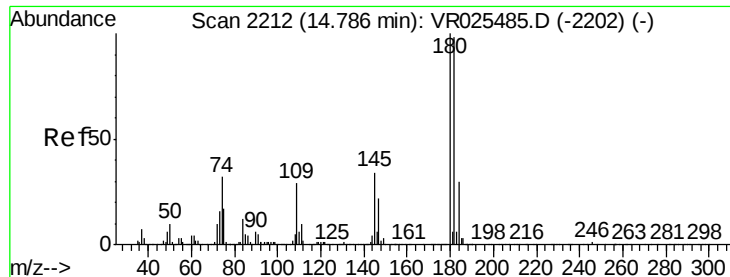
Ion Ratio Lower Upper

75 100

155 37.1 74.1 111.1#

157 0.0 71.0 106.6#

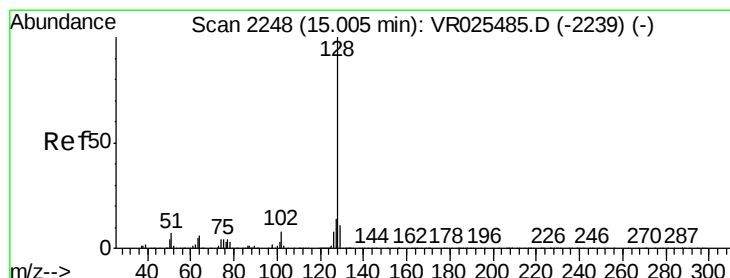
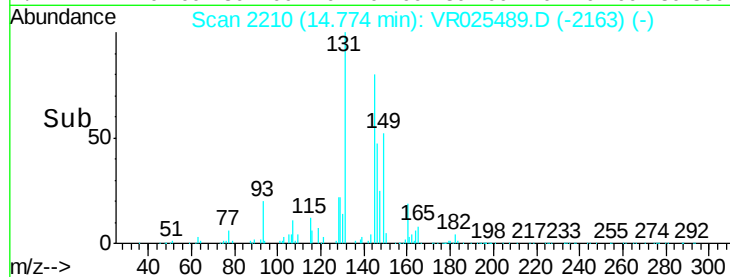
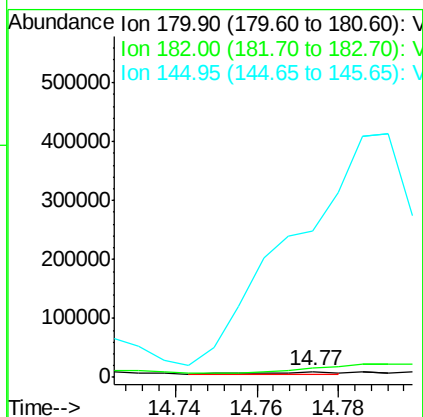
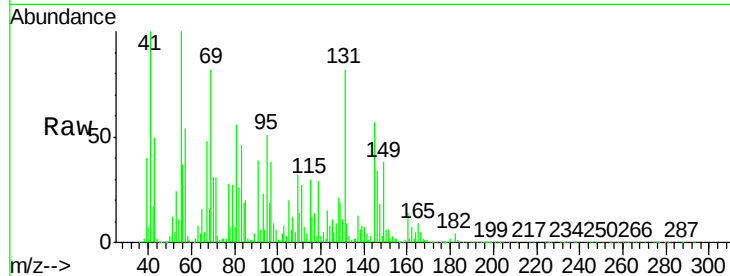




#68
 1,2,4-trichlorobenzene
 Concen: 0.253 ug/L
 RT: 14.77 min Scan# 2210
 Delta R.T. -0.01 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

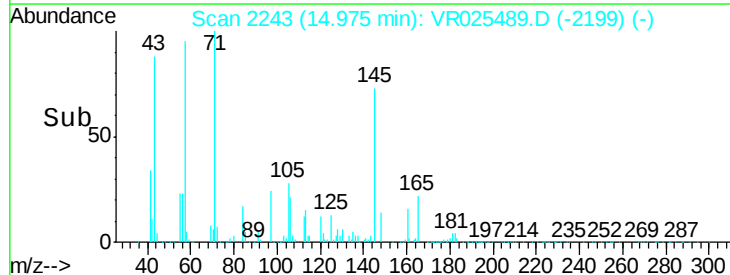
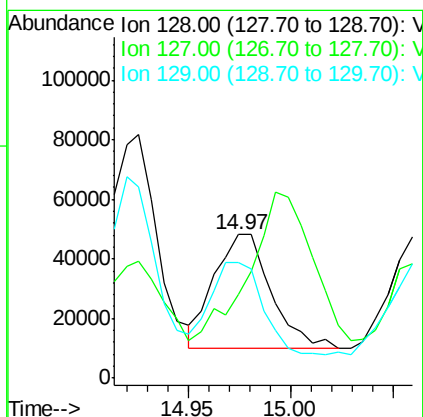
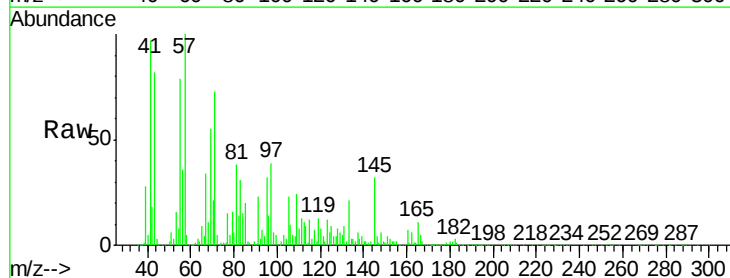
Instrument :
 MSVOA_R
 ClientSampled :
 C0AG0

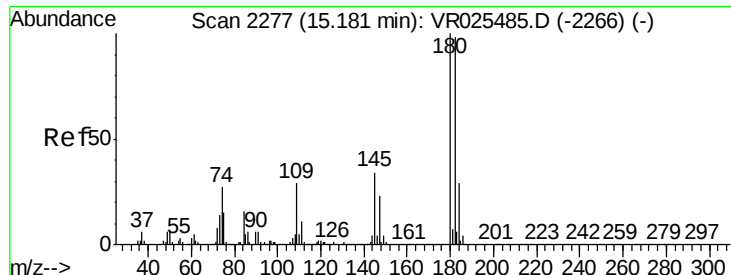
Tgt Ion:180 Resp: 5872
 Ion Ratio Lower Upper
 180 100
 182 670.3 75.0 112.4#
 145 15780.1 27.3 40.9#



#69
 Naphthalene
 Concen: 2.502 ug/L
 RT: 14.97 min Scan# 2243
 Delta R.T. -0.03 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

Tgt Ion:128 Resp: 74249
 Ion Ratio Lower Upper
 128 100
 127 139.9 10.2 15.4#
 129 73.5 8.6 13.0#





#70
 1,2,3-Trichlorobenzene
 Concen: 2.669 ug/L
 RT: 15.16 min Scan# 2273
 Delta R.T. -0.02 min
 Lab File: VR025489.D
 Acq: 17 Jul 2018 12:07

Instrument :
 MSVOA_R
 ClientSampleId :
 C0AG0

Tgt Ion:180 Resp: 47687
 Ion Ratio Lower Upper
 180 100
 182 47.8 75.2 112.8#
 145 947.3 28.2 42.2#

