

Data File : VR026421.D
Acq On : 28 Feb 2019 16:17
Operator : SY/MD
Sample : K1588-14DL 5X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
C0AB2DL

Quant Time: Mar 01 06:34:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR022219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Mar 01 06:30:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	499983	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.28	117	397587	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	127955	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.14	65	192275	3.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.60%
7) Chloroethane-d5	2.62	69	164238	4.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.80%
11) 1,1-Dichloroethene-d2	3.61	63	370711	3.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.60%
20) 2-Butanone-d5	6.58	46	235901	66.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	132.16%#
24) Chloroform-d	7.20	84	389764	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	7.89	65	167223	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	7.85	84	722980	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	8.89	67	194262	5.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
41) Toluene-d8	9.97	98	635317	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	10.23	79	43986	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	10.59	63	160707	63.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	127.44%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	72474	5.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	13.51	152	124518	5.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.60%

Target Compounds

					Qvalue
12) 1,1-Dichloroethene	3.63	96	12085	0.277 ug/L #	1
13) Acetone	3.70	43	6269	1.952 ug/L	99
15) Methyl Acetate	3.94	43	114017	12.545 ug/L #	55
16) Methylene chloride	4.40	84	32380	0.848 ug/L	95
18) trans-1,2-Dichloroethene	4.88	96	34756	0.872 ug/L	89
19) 1,1-Dichloroethane	5.68	63	15932	0.218 ug/L	87
22) cis-1,2-Dichloroethene	6.67	96	53699	1.605 ug/L #	88
25) Chloroform	7.23	83	13283	0.190 ug/L #	72
27) 1,2-Dichloroethane	7.99	62	5211	0.157 ug/L #	91
34) Trichloroethene	8.71	95	309882	8.062 ug/L	96
37) 1,2-Dichloropropane	8.99	63	2754	0.085 ug/L #	61
42) Toluene	10.03	91	59059	0.385 ug/L	90
44) trans-1,3-Dichloropropene	10.23	75	3261	0.126 ug/L	90
45) 1,1,2-Trichloroethane	10.43	97	1775	0.132 ug/L #	75
47) Tetrachloroethene	10.51	164	3119	0.112 ug/L	84
49) Dibromochloromethane	10.79	129	2077	0.125 ug/L	87
51) Chlorobenzene	11.30	112	8893	0.106 ug/L #	83

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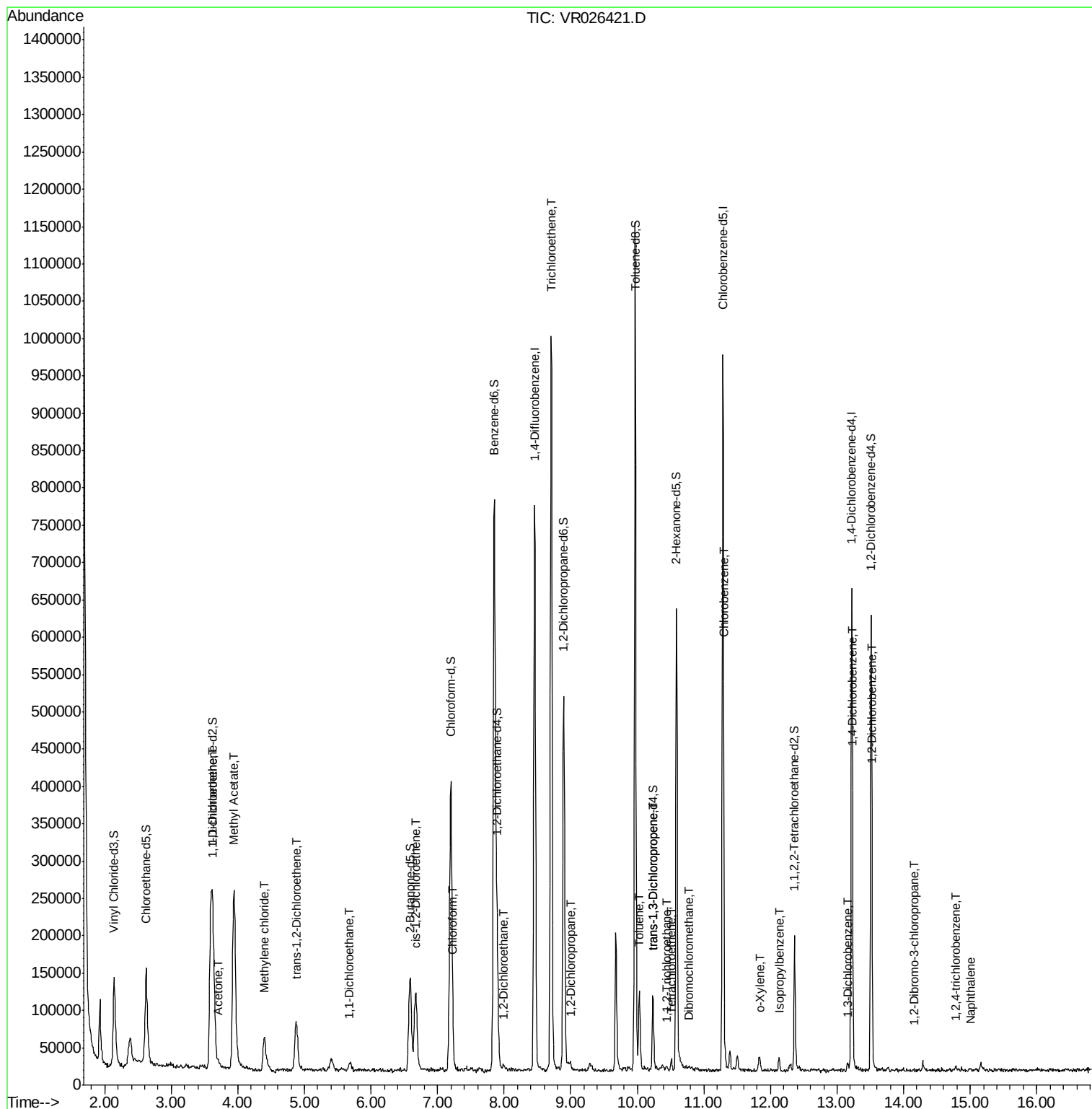
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	11.83	106	3469	0.065	ug/L	72
56) Isopropylbenzene	12.13	105	8387	0.055	ug/L	99
62) 1,3-Dichlorobenzene	13.16	146	3627	0.093	ug/L #	89
63) 1,4-Dichlorobenzene	13.24	146	5792	0.134	ug/L #	79
65) 1,2-Dichlorobenzene	13.53	146	4266	0.133	ug/L #	69
66) 1,2-Dibromo-3-chloropropan	14.15	75	315	0.263	ug/L #	21
68) 1,2,4-trichlorobenzene	14.78	180	1906	0.138	ug/L #	67
69) Naphthalene	15.00	128	1794	0.141	ug/L #	76

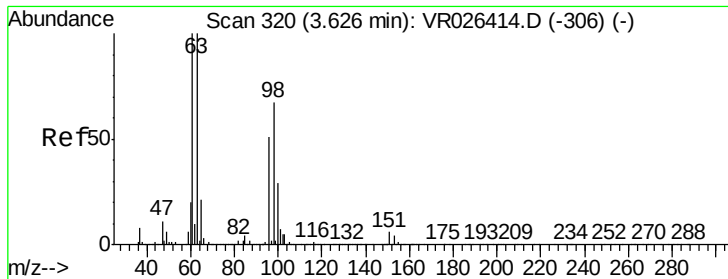
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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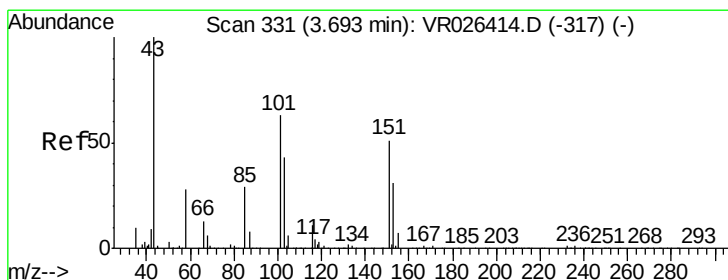
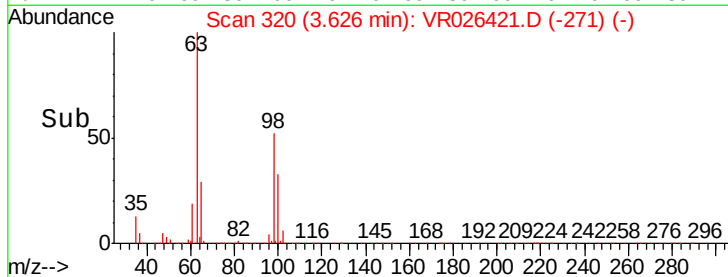
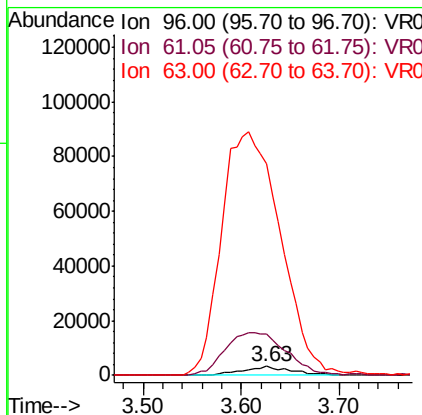
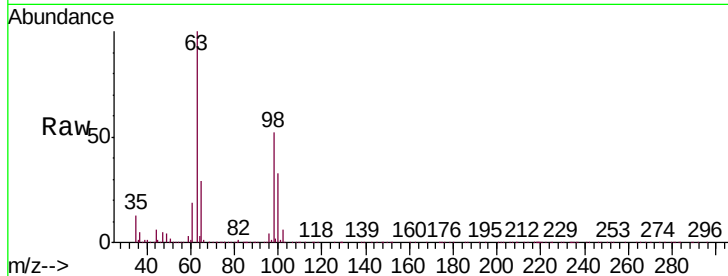




#12
 1,1-Dichloroethene
 Concen: 0.277 ug/L
 RT: 3.63 min Scan# 320
 Delta R.T. 0.00 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

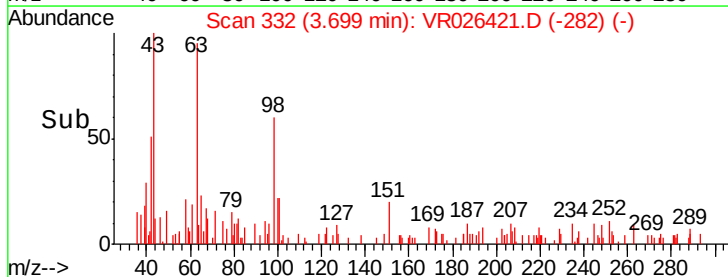
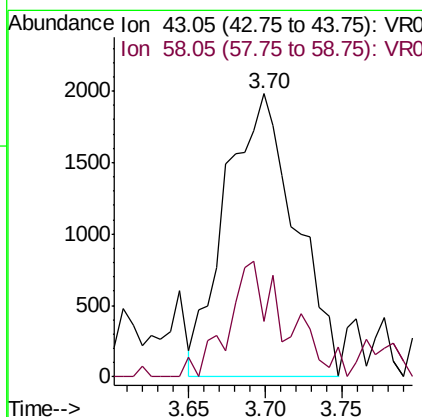
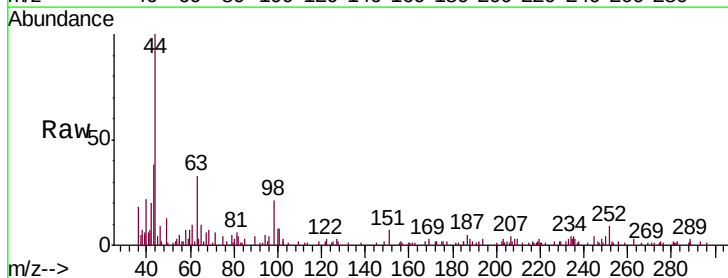
Instrument :
 MSVOA_R
 ClientSampleId :
 C0AB2DL

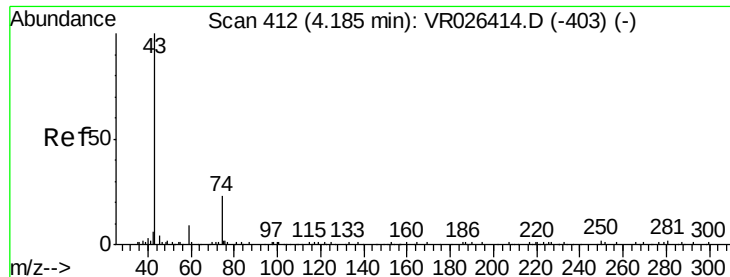
Tgt Ion: 96 Resp: 12085
 Ion Ratio Lower Upper
 96 100
 61 445.9 135.9 252.5#
 63 2302.7 136.6 253.6#



#13
 Acetone
 Concen: 1.952 ug/L
 RT: 3.70 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

Tgt Ion: 43 Resp: 6269
 Ion Ratio Lower Upper
 43 100
 58 26.7 0.0 52.2

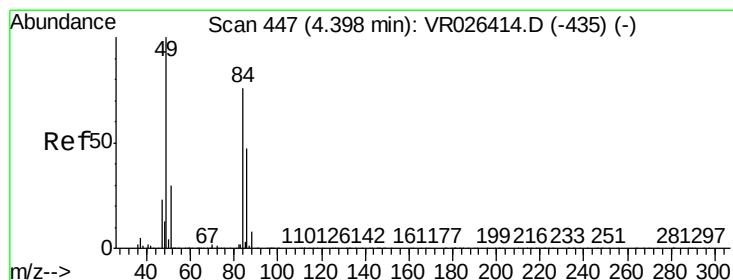
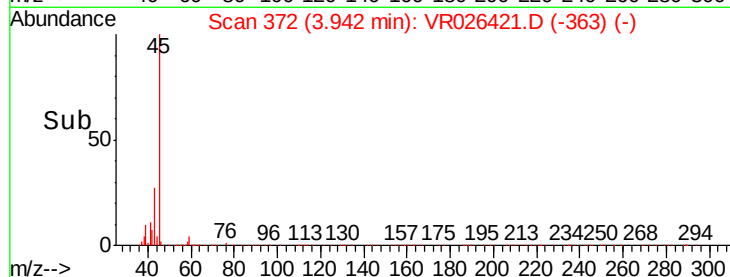
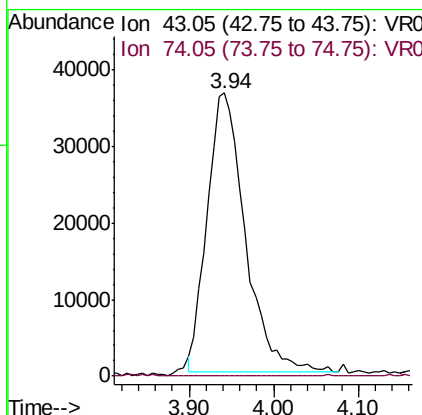
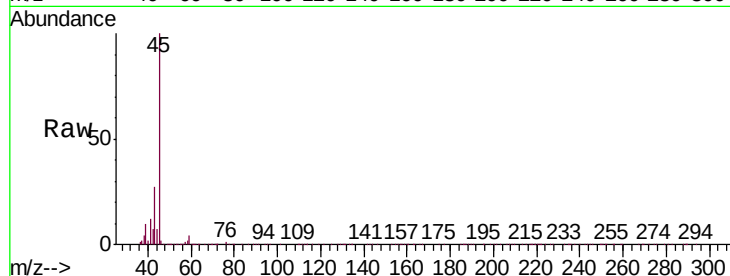




#15
Methyl Acetate
Concen: 12.545 ug/L
RT: 3.94 min Scan# 372
Delta R.T. -0.24 min
Lab File: VR026421.D
Acq: 28 Feb 2019 16:17

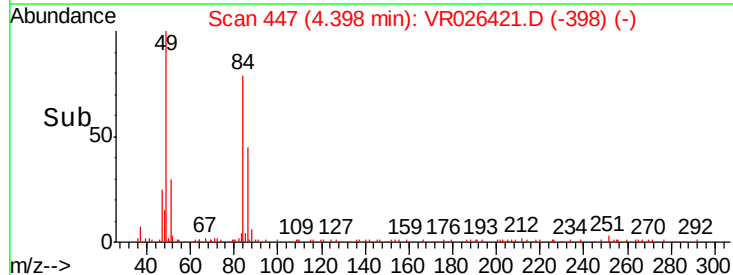
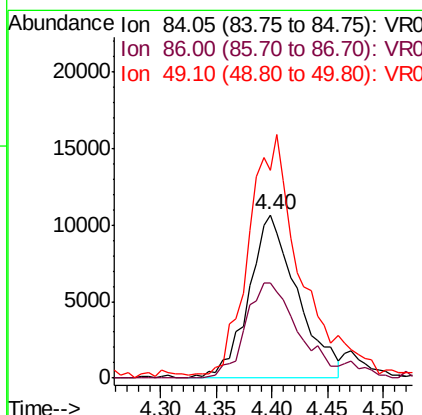
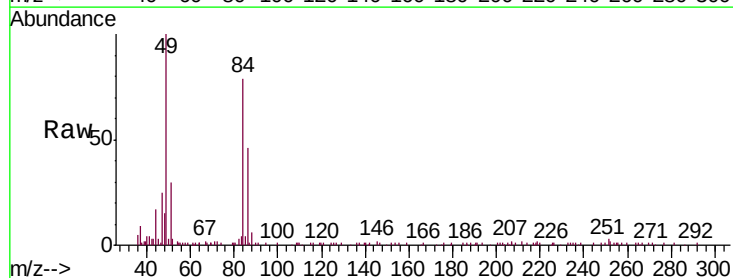
Instrument :
MSVOA_R
ClientSampleId :
C0AB2DL

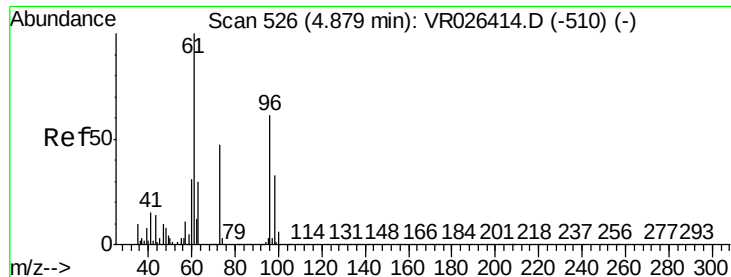
Tgt Ion: 43 Resp: 114017
Ion Ratio Lower Upper
43 100
74 0.0 16.6 25.0#



#16
Methylene chloride
Concen: 0.848 ug/L
RT: 4.40 min Scan# 447
Delta R.T. 0.00 min
Lab File: VR026421.D
Acq: 28 Feb 2019 16:17

Tgt Ion: 84 Resp: 32380
Ion Ratio Lower Upper
84 100
86 58.2 42.1 78.3
49 127.2 93.8 174.2





#18

trans-1,2-Dichloroethene

Concen: 0.872 ug/L

RT: 4.88 min Scan# 527

Delta R.T. 0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Instrument :

MSVOA_R

ClientSampleId :

C0AB2DL

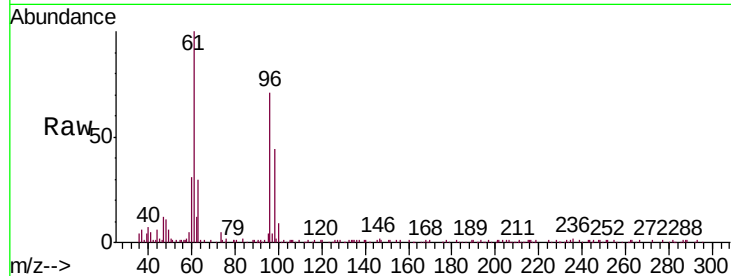
Tgt Ion: 96 Resp: 34756

Ion Ratio Lower Upper

96 100

61 141.2 109.4 203.2

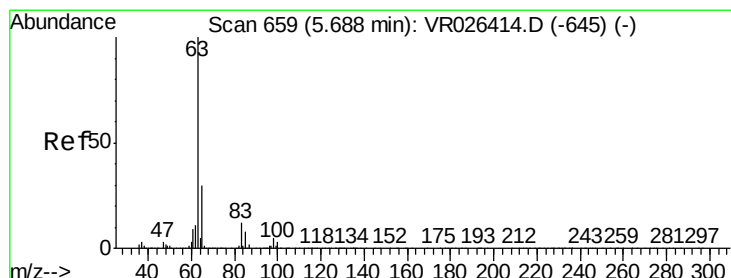
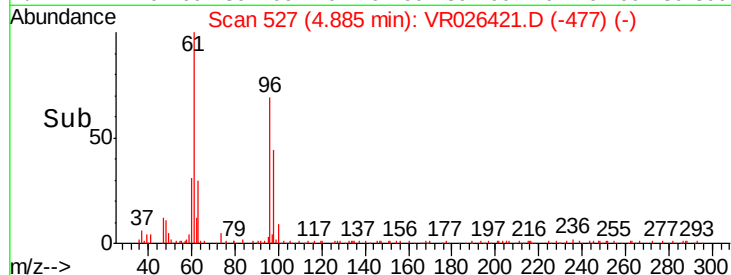
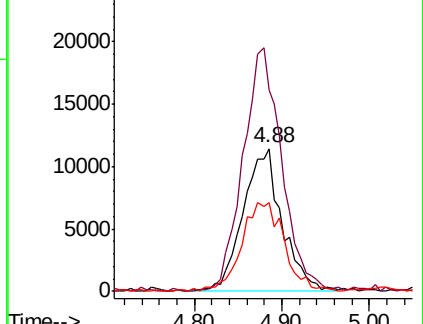
98 62.4 39.7 73.7



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 97.95 (97.65 to 98.65): VR0



#19

1,1-Dichloroethane

Concen: 0.218 ug/L

RT: 5.68 min Scan# 657

Delta R.T. -0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

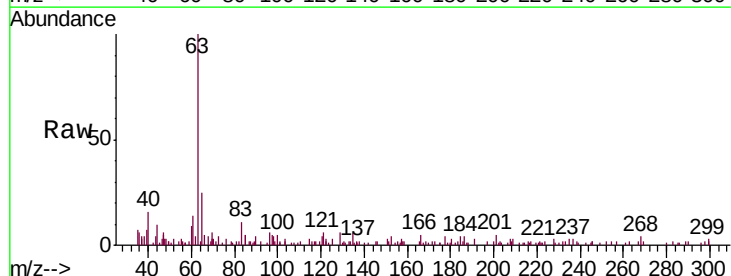
Tgt Ion: 63 Resp: 15932

Ion Ratio Lower Upper

63 100

65 24.7 23.6 43.8

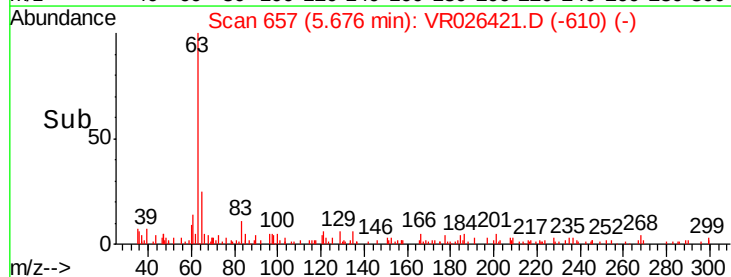
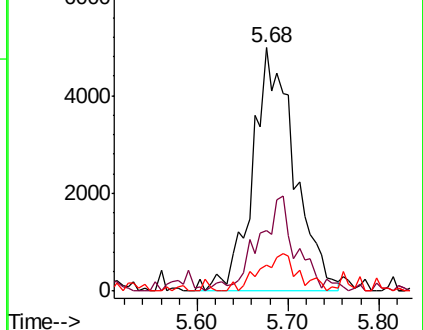
83 10.5 8.8 16.4

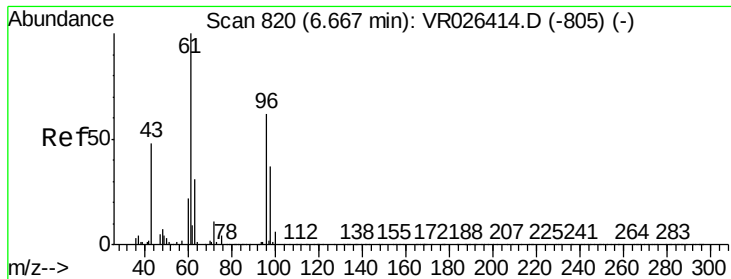


Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 65.10 (64.80 to 65.80): VR0

Ion 83.05 (82.75 to 83.75): VR0



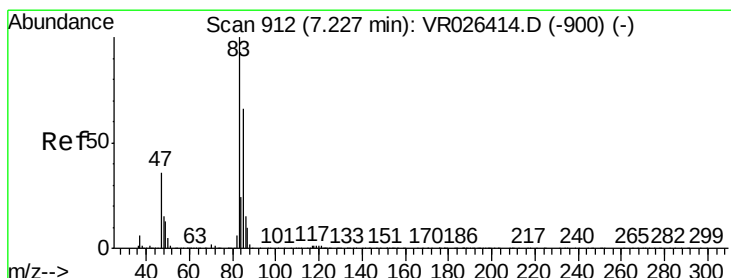
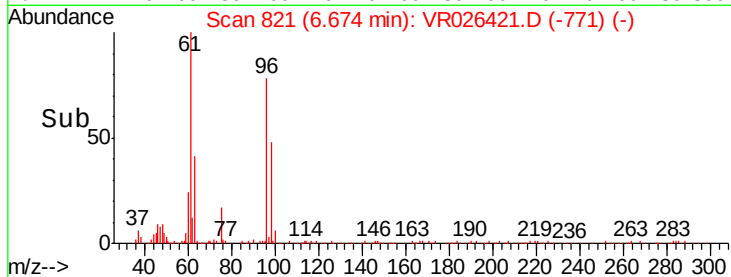
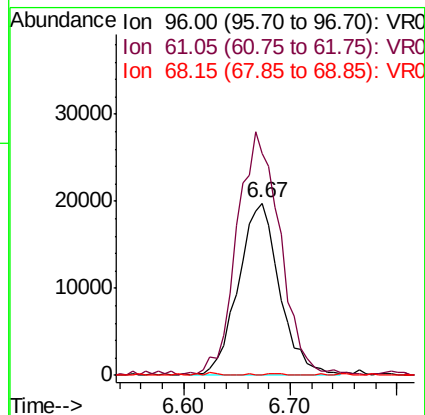
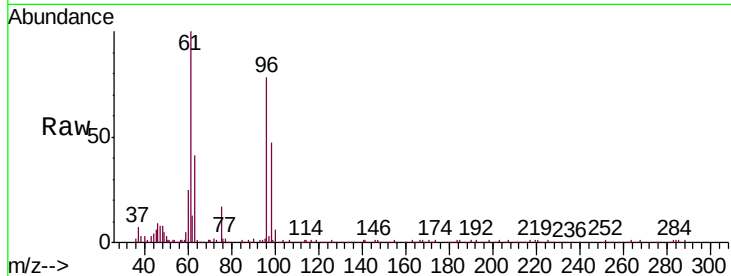


#22

cis-1,2-Dichloroethene
 Concen: 1.605 ug/L
 RT: 6.67 min Scan# 821
 Delta R.T. 0.01 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

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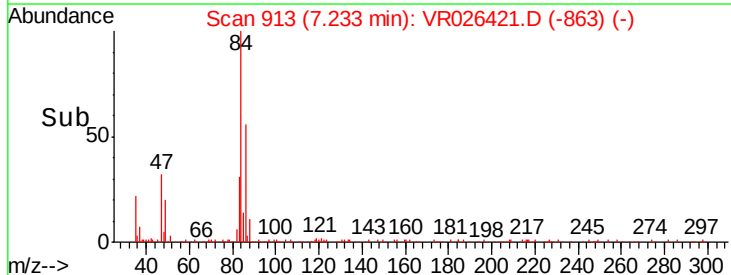
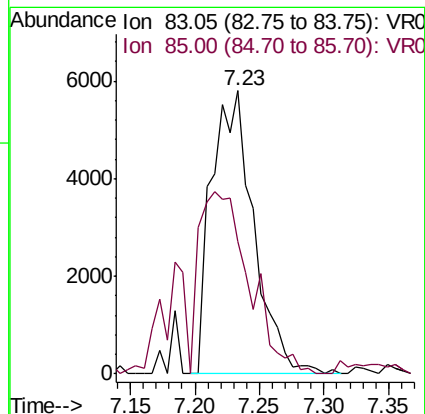
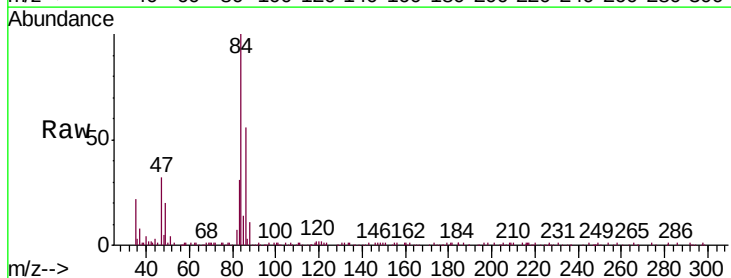
Tgt Ion: 96 Resp: 53699
 Ion Ratio Lower Upper
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 61 128.7 100.8 187.2
 68 0.6 0.1 0.1#

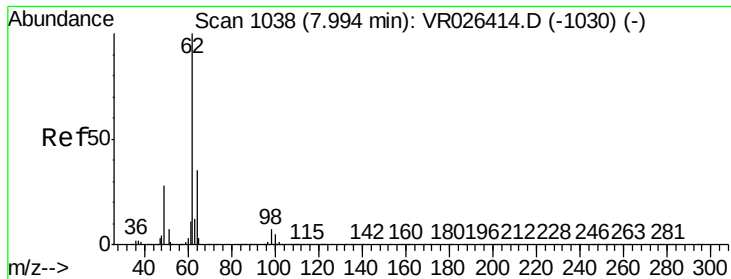


#25

Chloroform
 Concen: 0.190 ug/L
 RT: 7.23 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

Tgt Ion: 83 Resp: 13283
 Ion Ratio Lower Upper
 83 100
 85 46.7 48.6 90.2#

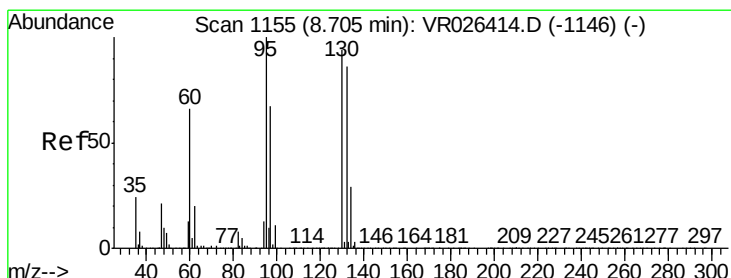
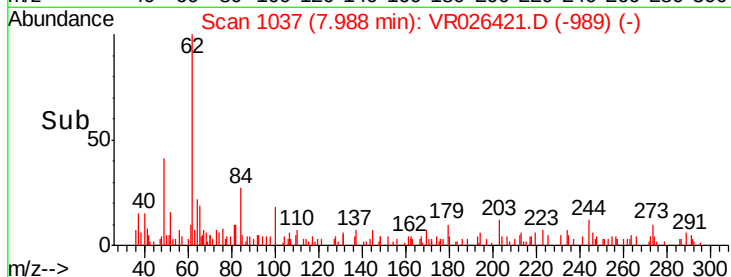
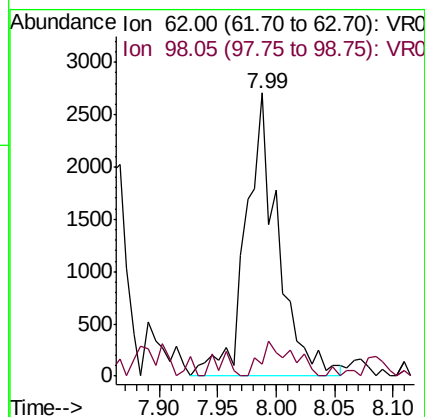
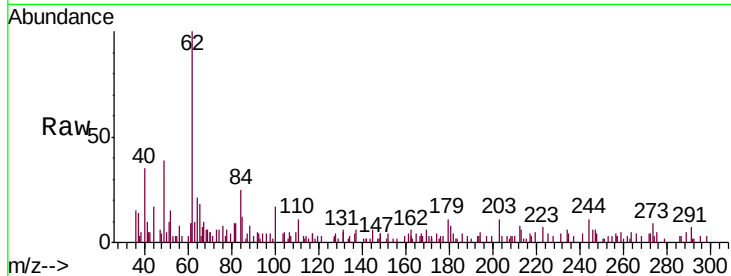




#27
1,2-Dichloroethane
Concen: 0.157 ug/L
RT: 7.99 min Scan# 1037
Delta R.T. -0.01 min
Lab File: VR026421.D
Acq: 28 Feb 2019 16:17

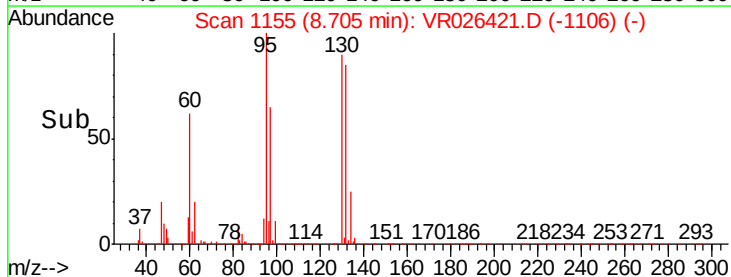
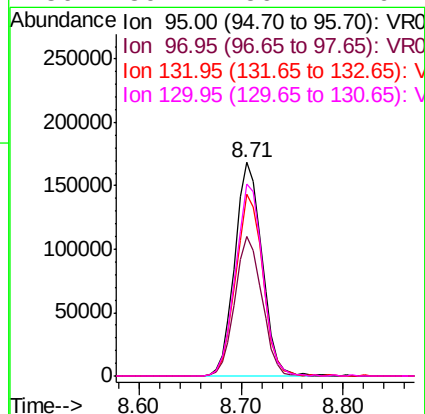
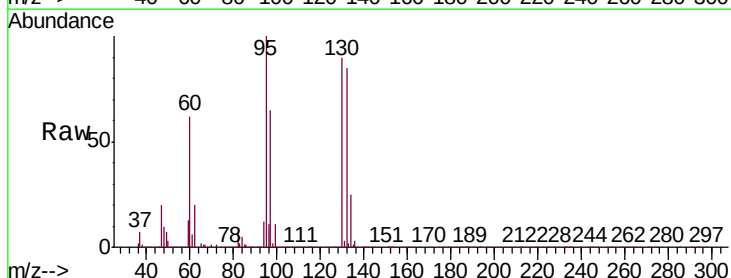
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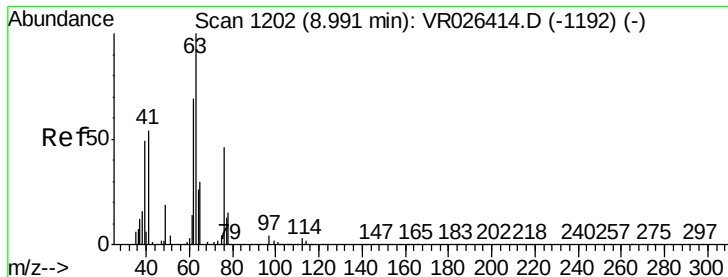
Tgt Ion: 62 Resp: 5211
Ion Ratio Lower Upper
62 100
98 4.1 5.7 8.5#



#34
Trichloroethene
Concen: 8.062 ug/L
RT: 8.71 min Scan# 1155
Delta R.T. 0.00 min
Lab File: VR026421.D
Acq: 28 Feb 2019 16:17

Tgt Ion: 95 Resp: 309882
Ion Ratio Lower Upper
95 100
97 65.0 43.5 80.7
132 85.0 58.6 108.8
130 89.7 59.4 110.2

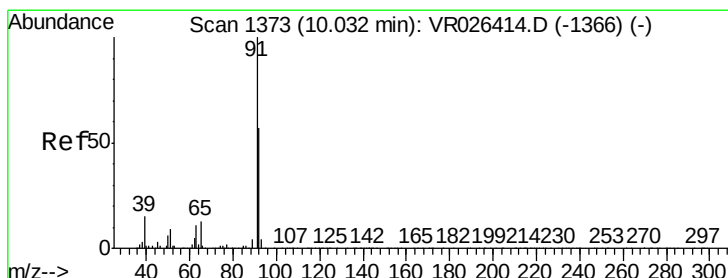
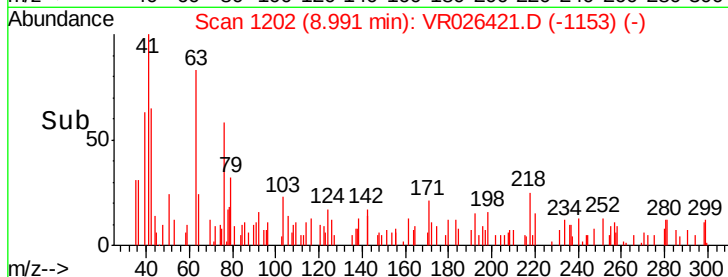
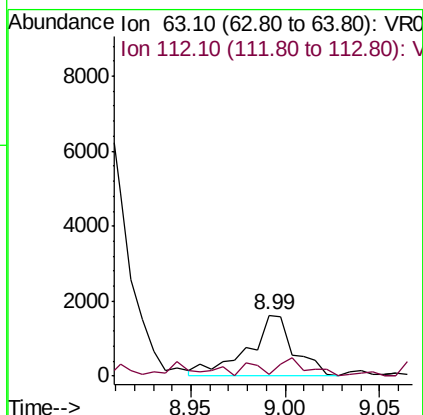
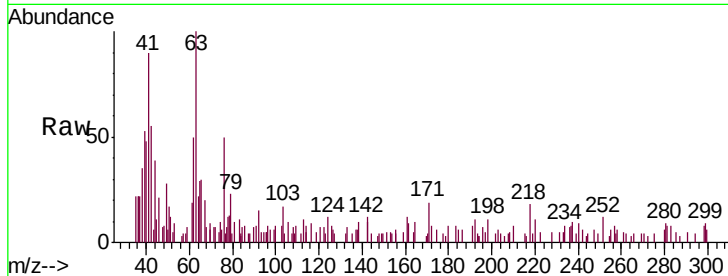




#37
 1,2-Dichloropropane
 Concen: 0.085 ug/L
 RT: 8.99 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

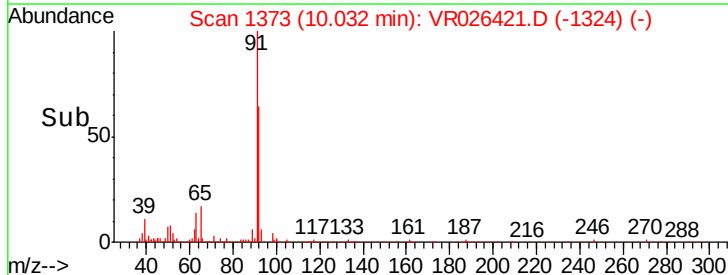
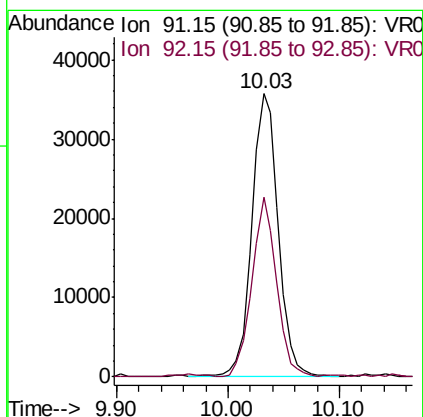
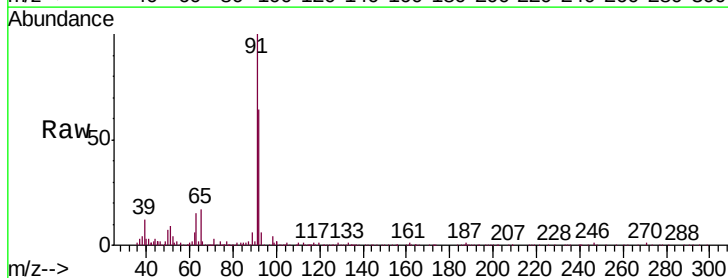
Instrument :
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 ClientSampleId :
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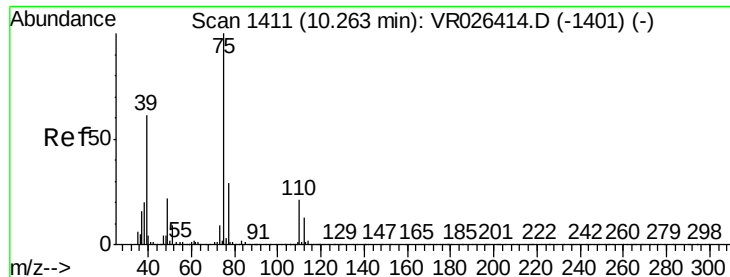
Tgt Ion: 63 Resp: 2754
 Ion Ratio Lower Upper
 63 100
 112 17.4 3.6 5.4#



#42
 Toluene
 Concen: 0.385 ug/L
 RT: 10.03 min Scan# 1373
 Delta R.T. 0.00 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

Tgt Ion: 91 Resp: 59059
 Ion Ratio Lower Upper
 91 100
 92 63.7 39.6 73.6





#44

trans-1,3-Dichloropropene

Concen: 0.126 ug/L

RT: 10.23 min Scan# 1406

Delta R.T. -0.03 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Instrument :

MSVOA_R

ClientSampleId :

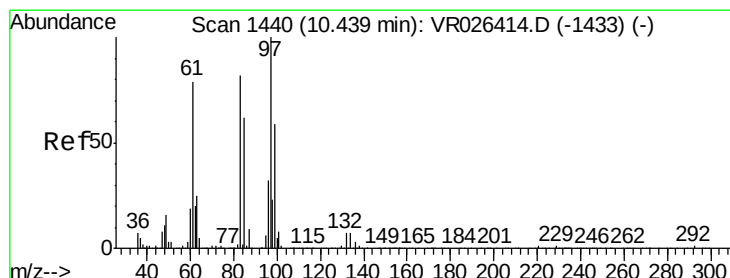
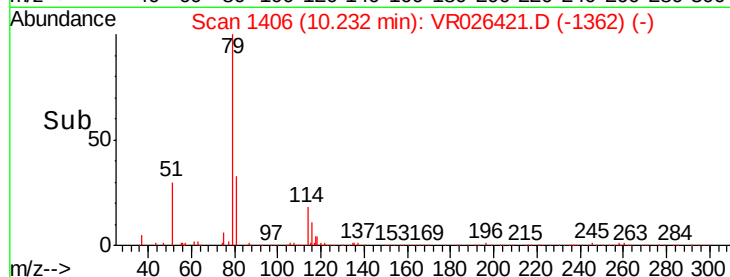
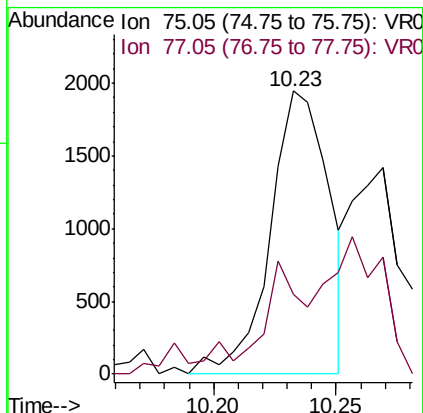
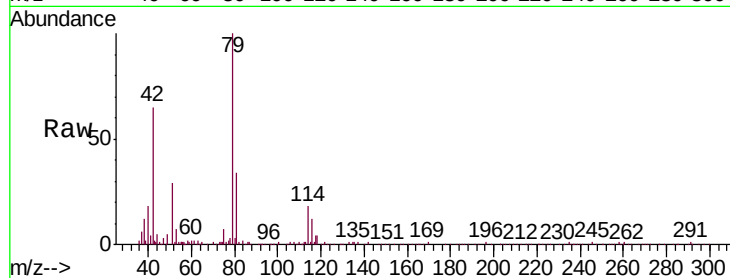
C0AB2DL

Tgt Ion: 75 Resp: 3261

Ion Ratio Lower Upper

75 100

77 28.3 23.9 44.3



#45

1,1,2-Trichloroethane

Concen: 0.132 ug/L

RT: 10.43 min Scan# 1439

Delta R.T. -0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Tgt Ion: 97 Resp: 1775

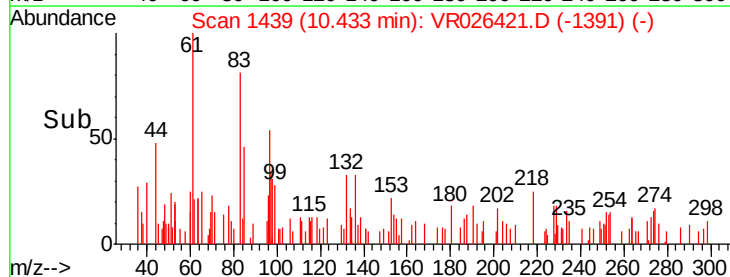
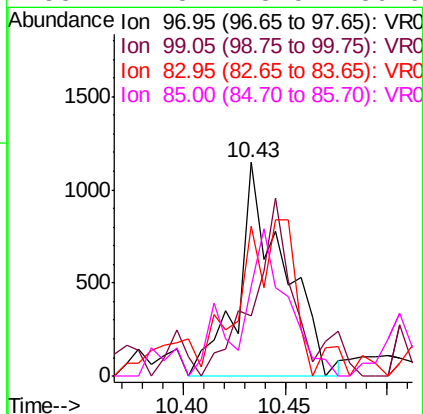
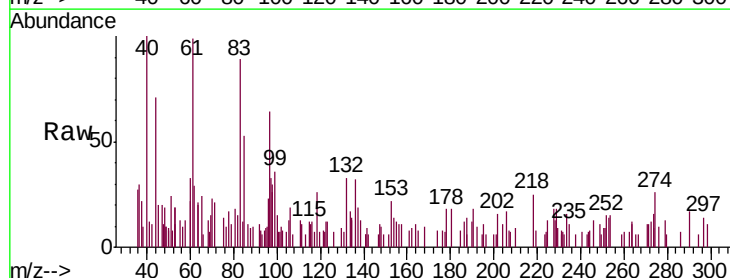
Ion Ratio Lower Upper

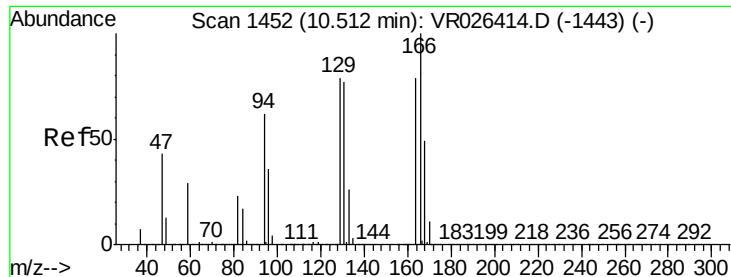
97 100

99 28.3 38.1 70.7#

83 70.1 59.6 110.6

85 41.8 43.5 80.9#





#47

Tetrachloroethene

Concen: 0.112 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Instrument :

MSVOA_R

ClientSampleId :

C0AB2DL

Tgt Ion:164 Resp: 3119

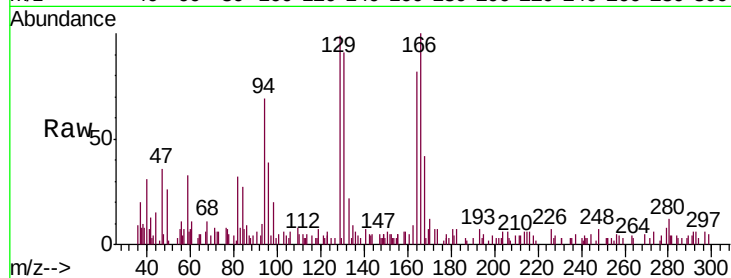
Ion Ratio Lower Upper

164 100

129 124.4 67.2 124.8

131 112.0 67.3 125.1

166 122.6 90.4 167.8

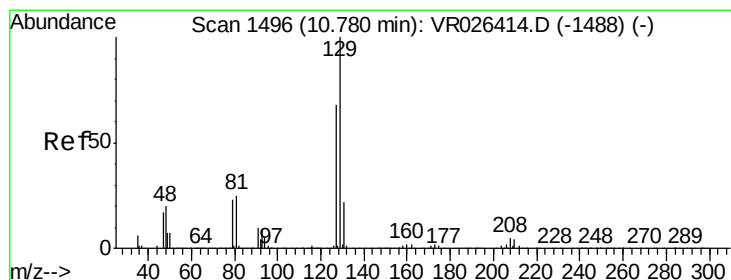
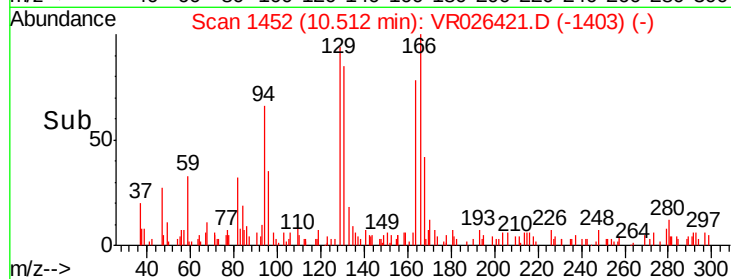
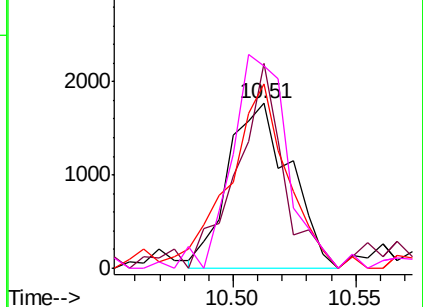


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.125 ug/L

RT: 10.79 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VR026421.D

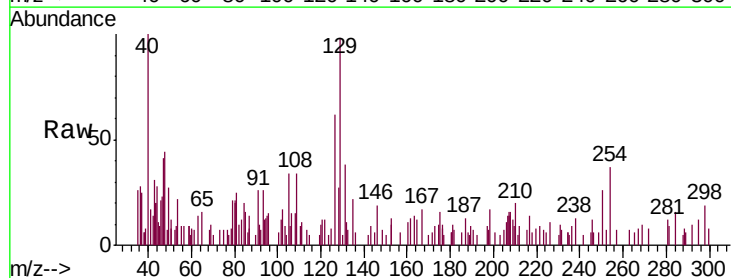
Acq: 28 Feb 2019 16:17

Tgt Ion:129 Resp: 2077

Ion Ratio Lower Upper

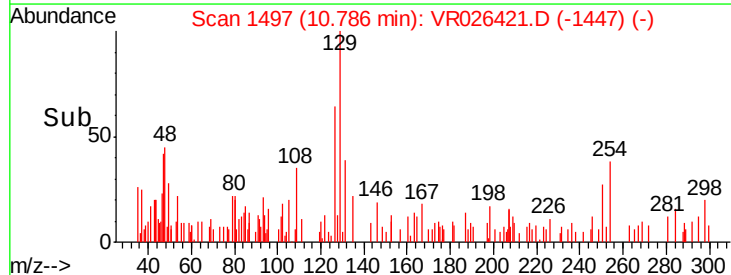
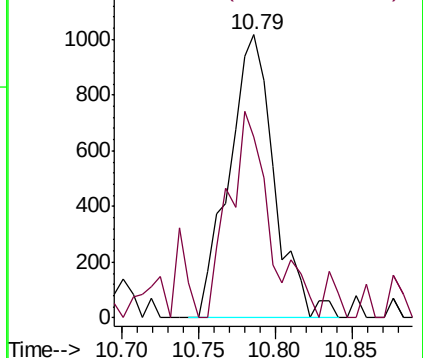
129 100

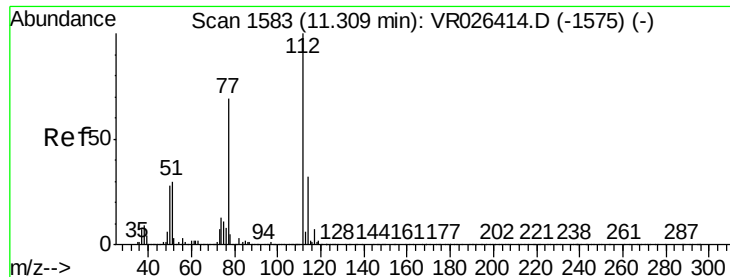
127 63.7 52.1 96.7



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#51

Chlorobenzene

Concen: 0.106 ug/L

RT: 11.30 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

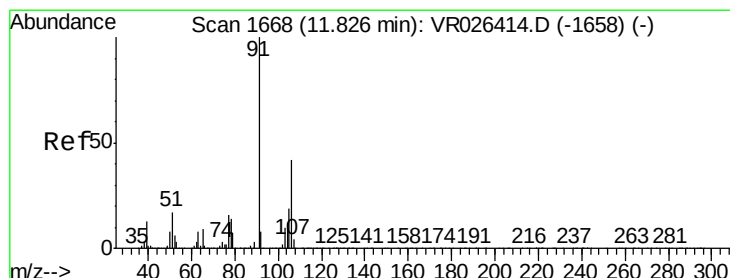
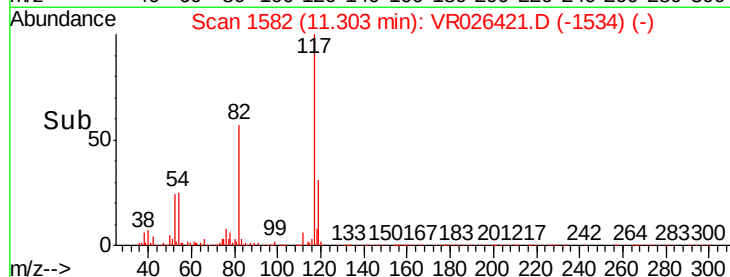
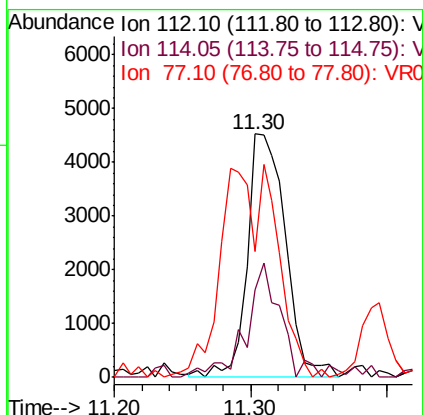
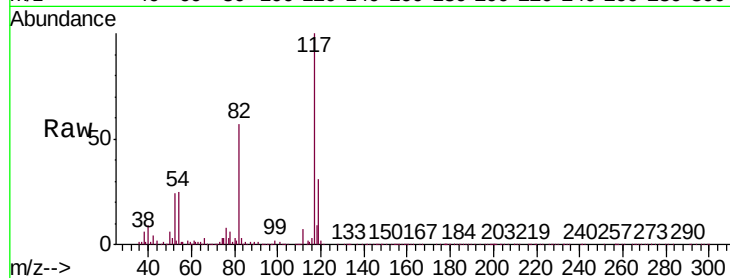
Instrument :

MSVOA_R

ClientSampleId :

C0AB2DL

Tgt Ion:	112	Resp:	8893
Ion	Ratio	Lower	Upper
112	100		
114	36.0	22.0	41.0
77	51.5	55.4	83.2#



#54

o-Xylene

Concen: 0.065 ug/L

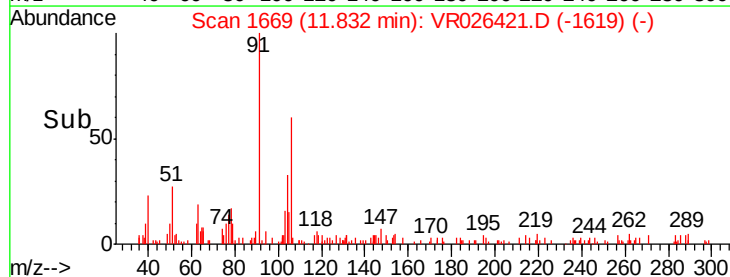
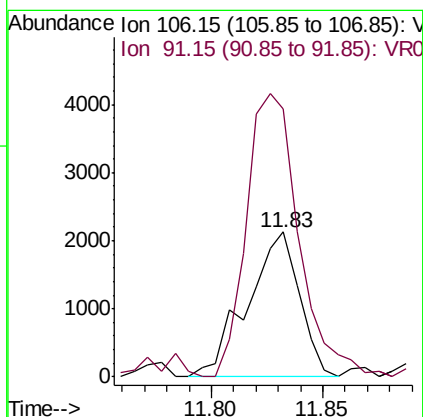
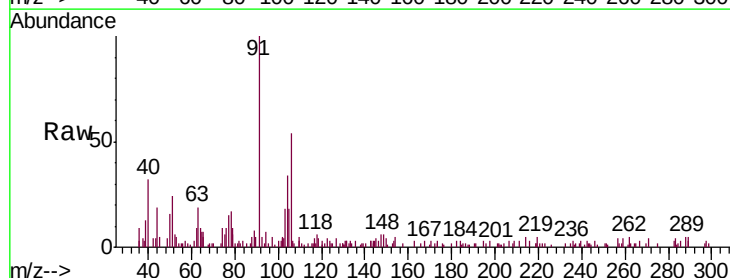
RT: 11.83 min Scan# 1669

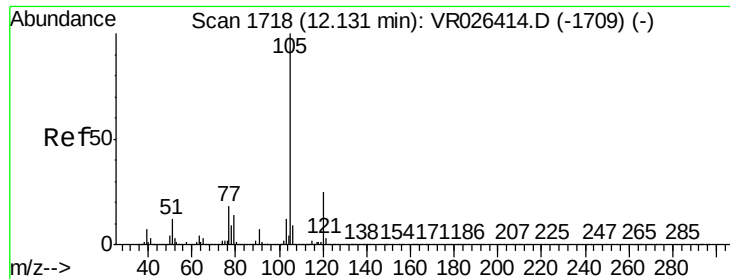
Delta R.T. 0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Tgt Ion:	106	Resp:	3469
Ion	Ratio	Lower	Upper
106	100		
91	185.0	162.5	301.9





#56

Isopropylbenzene

Concen: 0.055 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

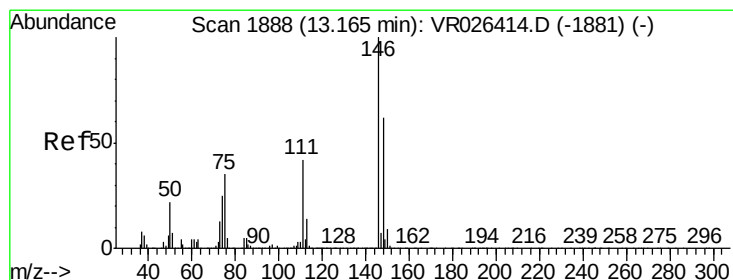
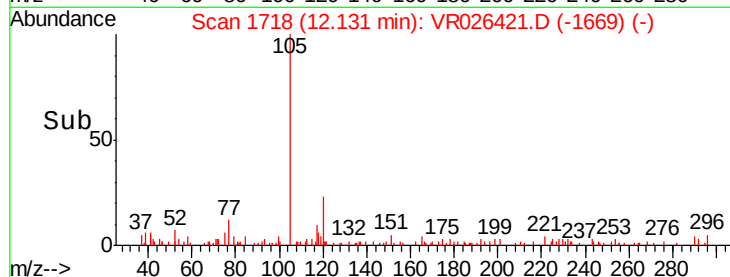
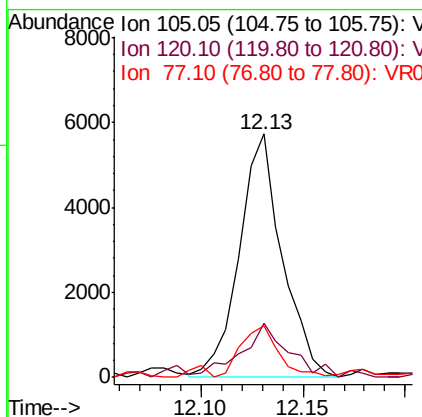
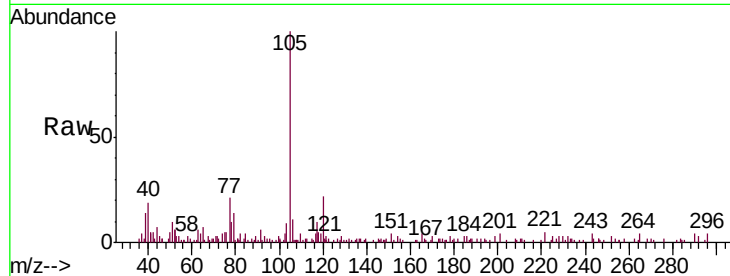
Instrument :

MSVOA_R

ClientSampleId :

C0AB2DL

Tgt Ion:	105	Resp:	8387
Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.4	30.6
77	18.7	14.4	21.6



#62

1,3-Dichlorobenzene

Concen: 0.093 ug/L

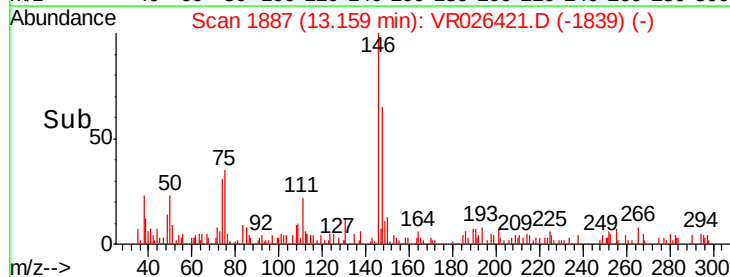
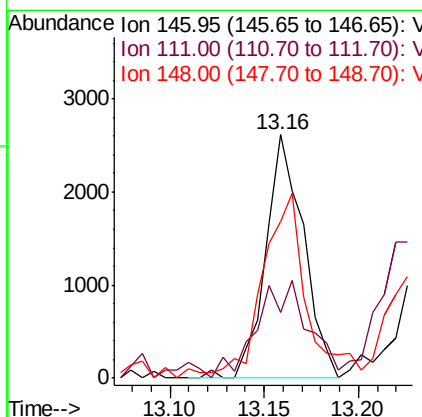
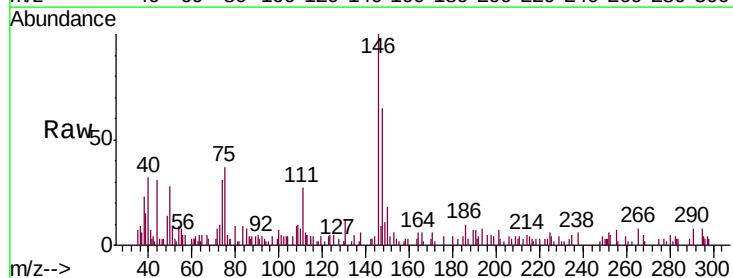
RT: 13.16 min Scan# 1887

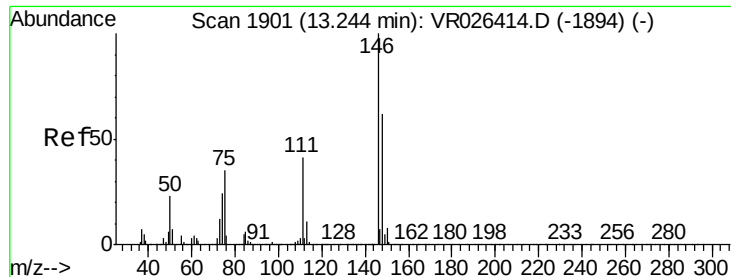
Delta R.T. -0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Tgt Ion:	146	Resp:	3627
Ion	Ratio	Lower	Upper
146	100		
111	26.9	31.1	57.9#
148	64.5	45.4	84.2

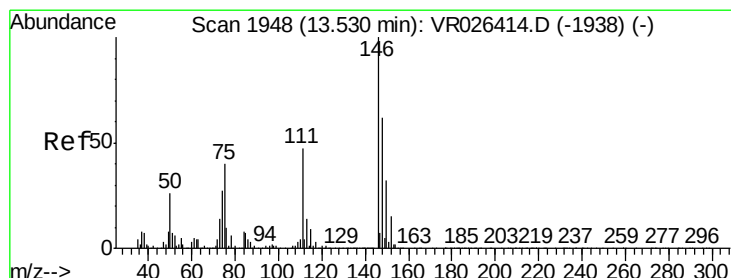
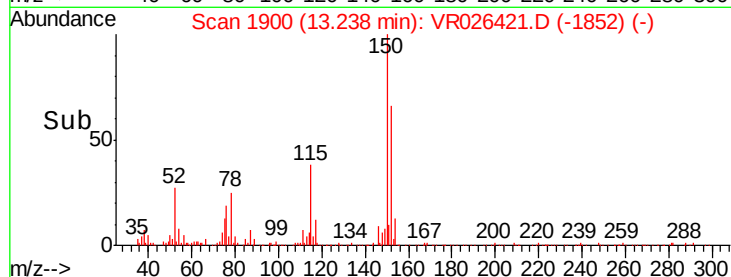
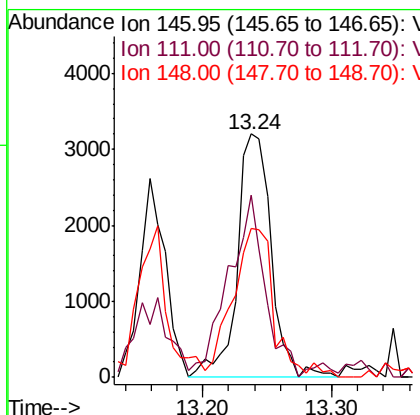
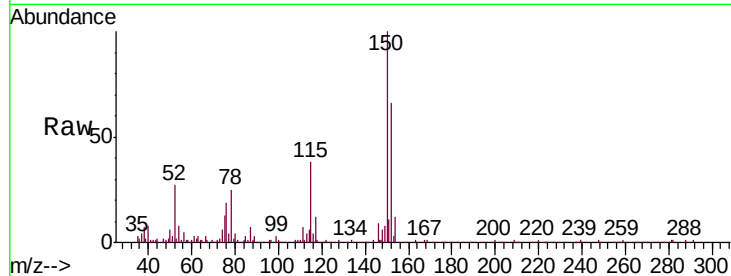




#63
 1,4-Dichlorobenzene
 Concen: 0.134 ug/L
 RT: 13.24 min Scan# 1900
 Delta R.T. -0.01 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

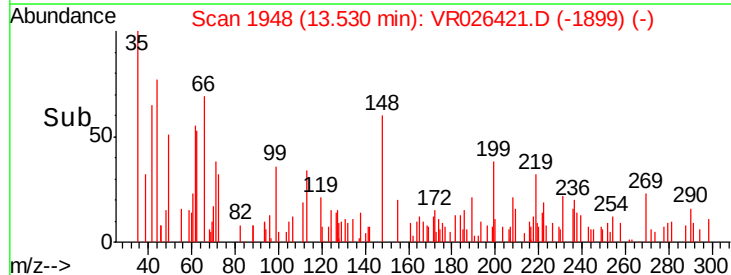
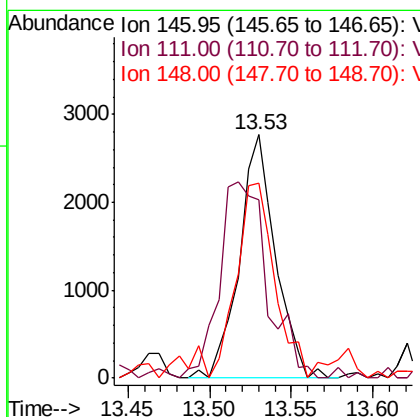
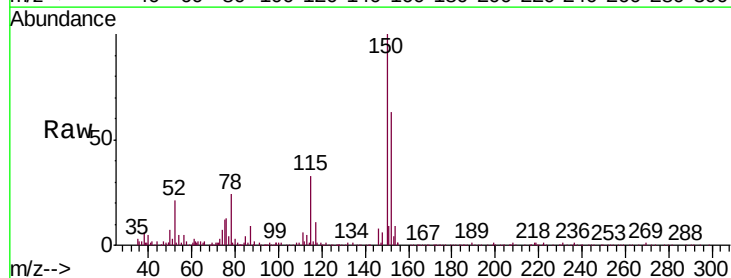
Instrument :
 MSVOA_R
 ClientSampled :
 C0AB2DL

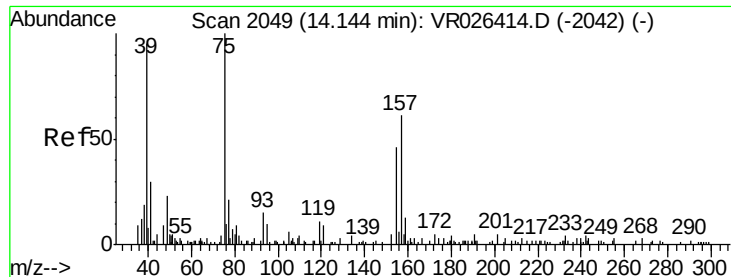
Tgt Ion:146 Resp: 5792
 Ion Ratio Lower Upper
 146 100
 111 74.6 30.0 55.8#
 148 61.3 43.7 81.1



#65
 1,2-Dichlorobenzene
 Concen: 0.133 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. 0.00 min
 Lab File: VR026421.D
 Acq: 28 Feb 2019 16:17

Tgt Ion:146 Resp: 4266
 Ion Ratio Lower Upper
 146 100
 111 73.2 36.9 55.3#
 148 80.3 49.4 74.0#





#66

1,2-Dibromo-3-chloropropane

Concen: 0.263 ug/L

RT: 14.15 min Scan# 2050

Delta R.T. 0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Instrument :

MSVOA_R

ClientSampleId :

C0AB2DL

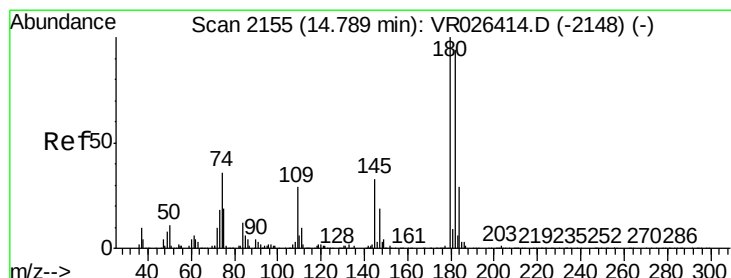
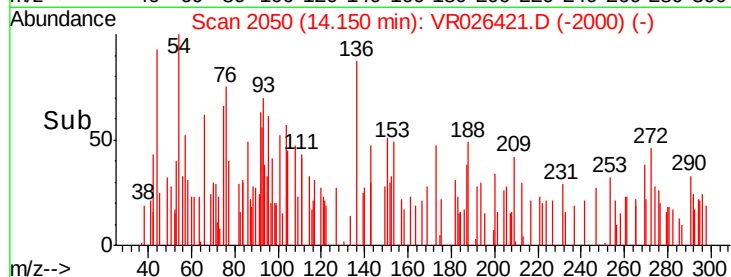
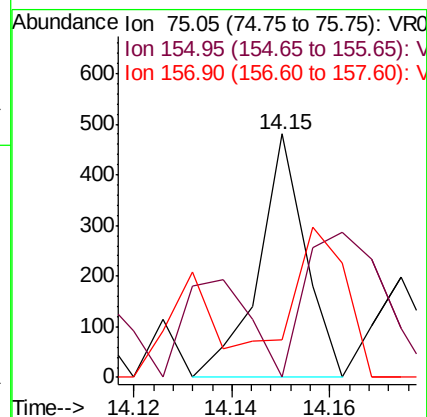
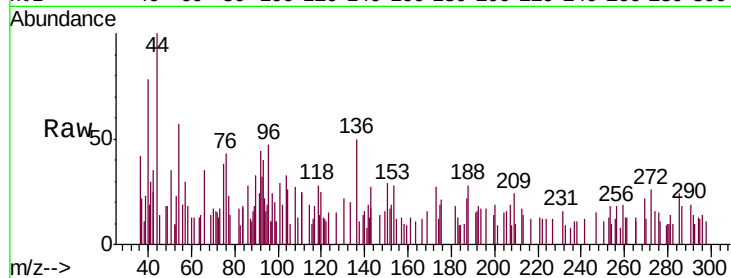
Tgt Ion: 75 Resp: 315

Ion Ratio Lower Upper

75 100

155 0.0 53.8 80.8#

157 15.6 67.4 101.0#



#68

1,2,4-trichlorobenzene

Concen: 0.138 ug/L

RT: 14.78 min Scan# 2154

Delta R.T. -0.01 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

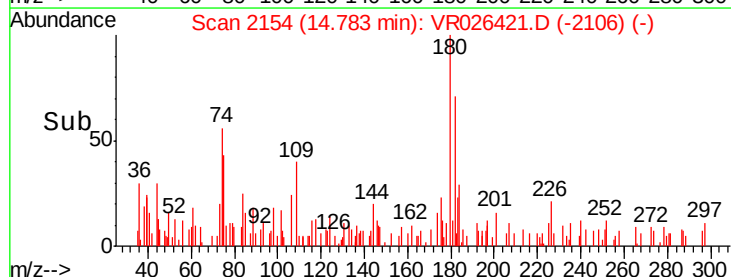
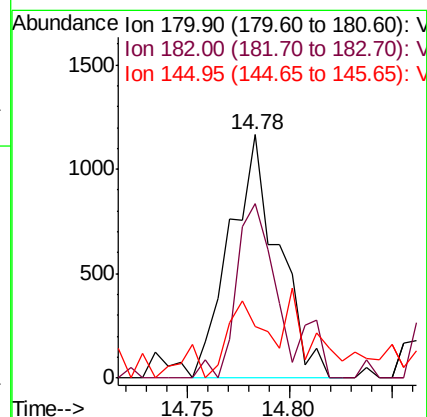
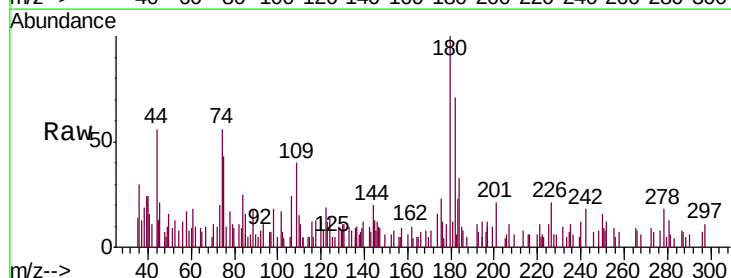
Tgt Ion: 180 Resp: 1906

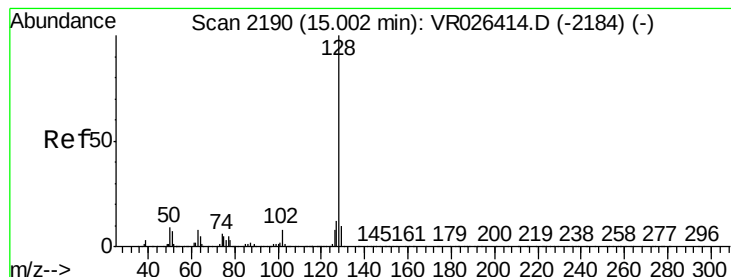
Ion Ratio Lower Upper

180 100

182 55.1 74.7 112.1#

145 25.1 26.6 40.0#





#69

Naphthalene

Concen: 0.141 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR026421.D

Acq: 28 Feb 2019 16:17

Instrument :

MSVOA_R

ClientSampleId :

C0AB2DL

Tgt Ion:128 Resp: 1794

Ion Ratio Lower Upper

128 100

127 21.1 11.2 16.8#

129 22.5 8.3 12.5#

