

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101618\
 Data File : VR026108.D
 Acq On : 16 Oct 2018 19:19
 Operator : SY/MD
 Sample : J5464-03
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Oct 17 08:53:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 17 08:49:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	575208	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	493733	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	166310	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	277442	5.51	ug/L	-0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	110.20%
7) Chloroethane-d5	2.62	69	219718	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	3.61	63	652053	5.27	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.40%
20) 2-Butanone-d5	6.59	46	216924	52.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.98%
24) Chloroform-d	7.20	84	364505	4.56	ug/L	-0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	7.90	65	152990	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
32) Benzene-d6	7.85	84	742034	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	8.89	67	203415	4.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%
41) Toluene-d8	9.97	98	696106	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
43) trans-1,3-Dichloropropene-	10.24	79	46101	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	10.59	63	177913	57.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.70%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	75763	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.20%
64) 1,2-Dichlorobenzene-d4	13.52	152	148477	5.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.79	85	10619	0.275 ug/L #	85
5) Vinyl chloride	2.16	62	1144205	18.720 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	2656133	50.491 ug/L	100
12) 1,1-Dichloroethene	3.62	96	320781	5.735 ug/L	93
13) Acetone	3.69	43	48228	11.288 ug/L	75
17) Methyl tert-butyl Ether	4.89	73	28718	0.566 ug/L #	76
18) trans-1,2-Dichloroethene	4.89	96	48291	1.142 ug/L	97
19) 1,1-Dichloroethane	5.69	63	71365	0.899 ug/L	99
21) 2-Butanone	6.70	43	9202	1.867 ug/L #	1
22) cis-1,2-Dichloroethene	6.67	96	9969297	249.147 ug/L #	76
25) Chloroform	7.23	83	19304	0.249 ug/L	97
27) 1,2-Dichloroethane	7.99	62	6179	0.163 ug/L	97
29) 1,1,1-Trichloroethane	7.43	97	7390	0.110 ug/L	93
34) Trichloroethene	8.71	95	10637508	224.335 ug/L	85
35) Methylcyclohexane	8.90	83	47570	0.674 ug/L #	17
37) 1,2-Dichloropropane	9.00	63	9298	0.238 ug/L #	89
44) trans-1,3-Dichloropropene	10.24	75	2850	0.091 ug/L	86

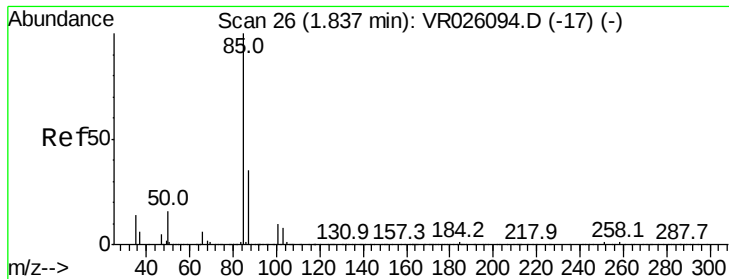
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101618\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 17 08:49:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	10.45	97	8487	0.515	ug/L	90
47) Tetrachloroethene	10.52	164	8998563	265.751	ug/L	91
48) 2-Hexanone	10.59	43	26428	3.390	ug/L #	70
49) Dibromochloromethane	10.51	129	7181456	387.065	ug/L #	10
51) Chlorobenzene	11.32	112	95550	0.883	ug/L	97
62) 1,3-Dichlorobenzene	13.16	146	17678	0.320	ug/L	96
63) 1,4-Dichlorobenzene	13.24	146	242321	4.235	ug/L	96
65) 1,2-Dichlorobenzene	13.53	146	1332721	30.055	ug/L	99
68) 1,2,4-trichlorobenzene	14.80	180	2442	0.124	ug/L #	90

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



#2

Dichlorodifluoromethane

Concen: 0.275 ug/L

RT: 1.79 min Scan# 18

Delta R.T. -0.05 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

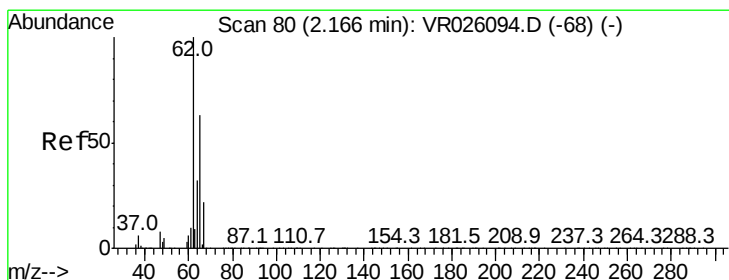
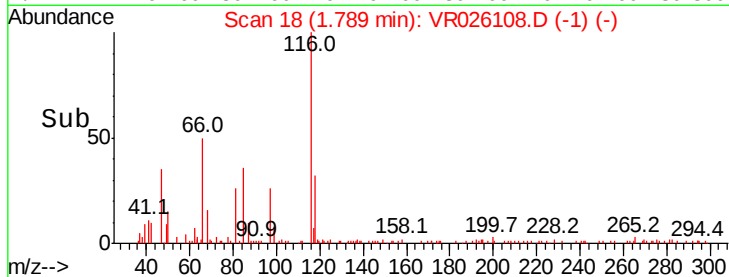
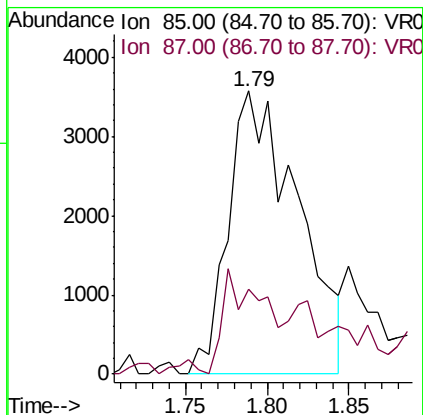
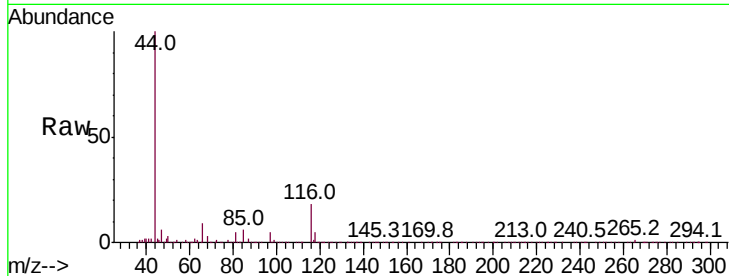
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 85 Resp: 10619

Ion Ratio Lower Upper

85 100

87 21.2 23.4 35.2#



#5

Vinyl chloride

Concen: 18.720 ug/L

RT: 2.16 min Scan# 79

Delta R.T. -0.01 min

Lab File: VR026108.D

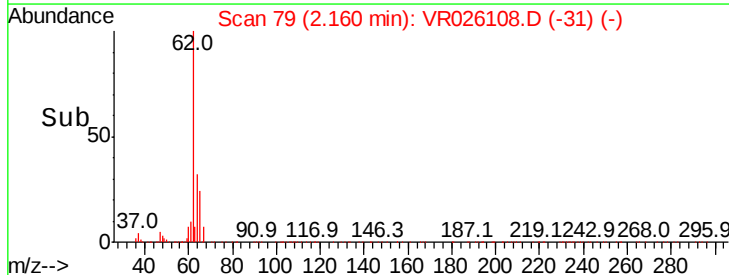
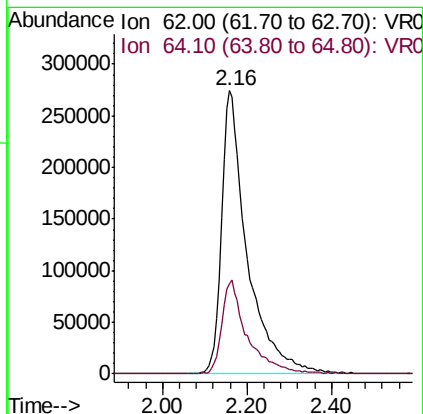
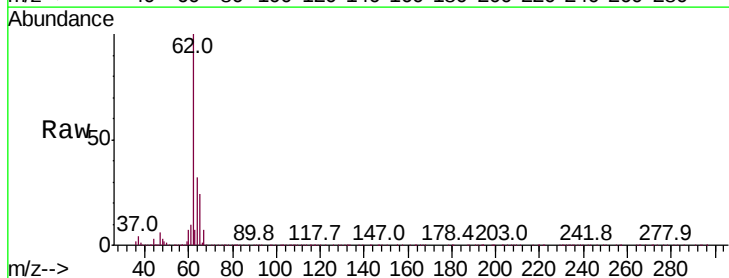
Acq: 16 Oct 2018 19:19

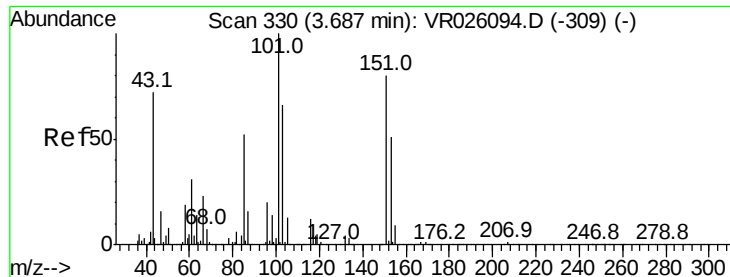
Tgt Ion: 62 Resp: 1144205

Ion Ratio Lower Upper

62 100

64 32.0 23.9 44.3





#10

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

Concen: 50.491 ug/L

RT: 3.68 min Scan# 329

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

ClientSampleId :

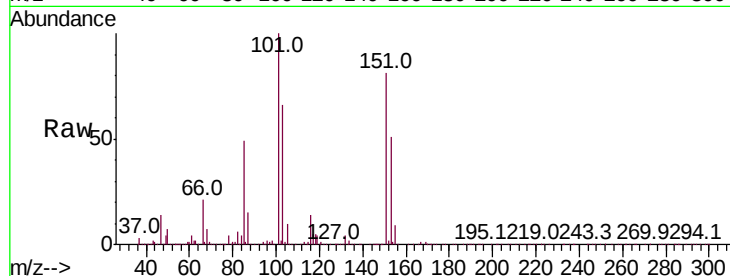
Tot Ion:101 Resp: 2656133

Ion Ratio Lower Upper

101 100

85 47.2 37.8 56.8

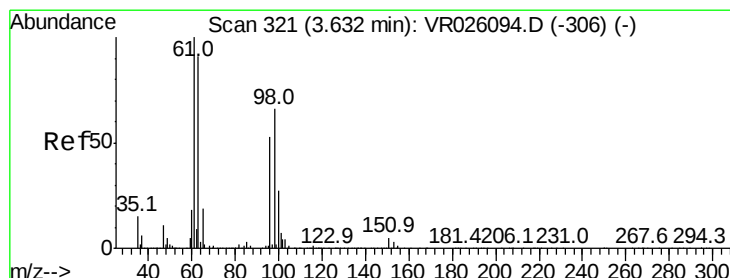
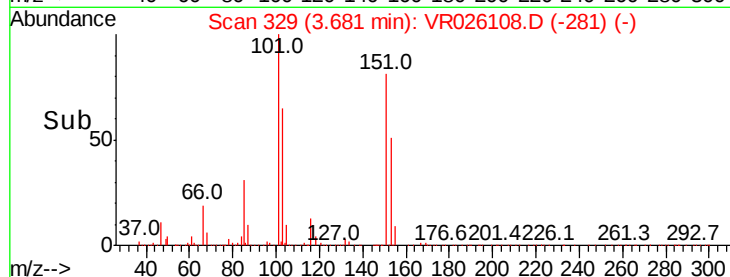
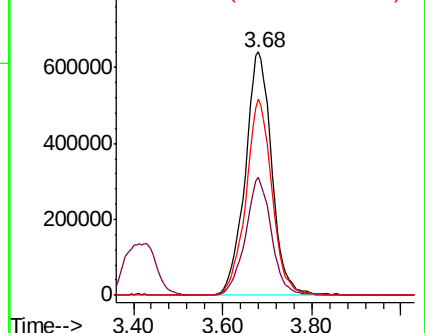
151 79.3 63.2 94.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.735 ug/L

RT: 3.62 min Scan# 319

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

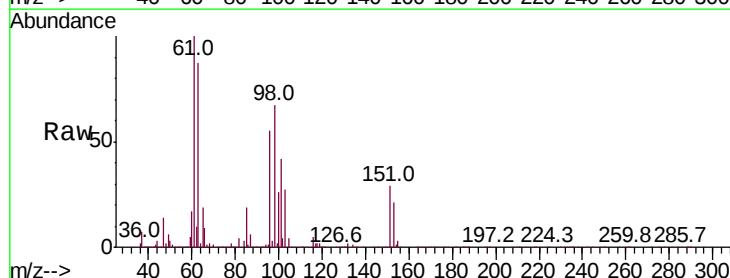
Tgt Ion: 96 Resp: 320781

Ion Ratio Lower Upper

96 100

61 181.5 126.7 235.3

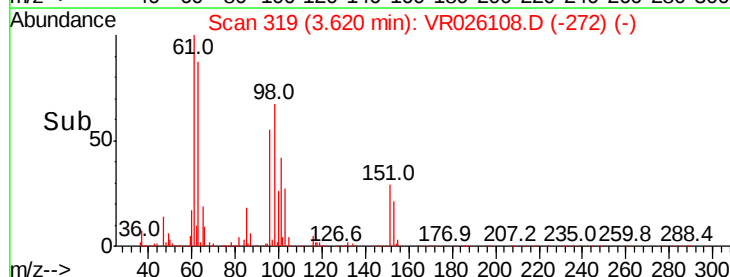
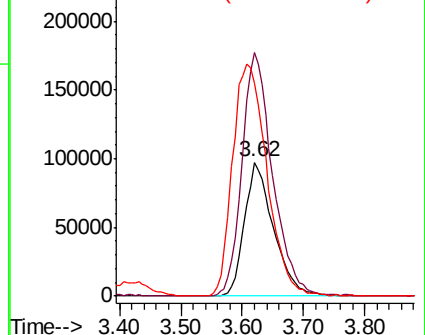
63 158.3 125.0 232.2

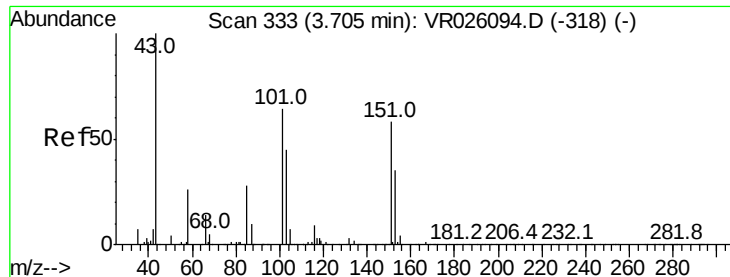


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 11.288 ug/L

RT: 3.69 min Scan# 331

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

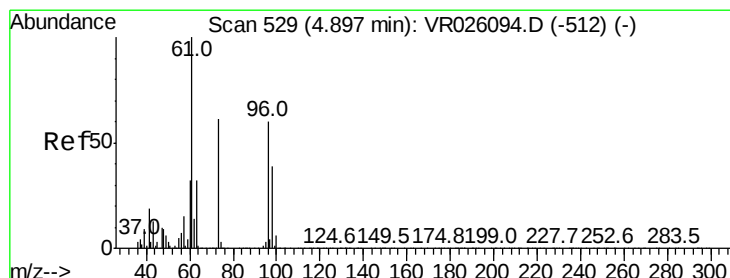
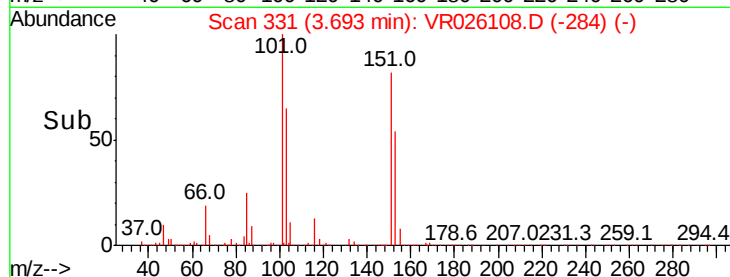
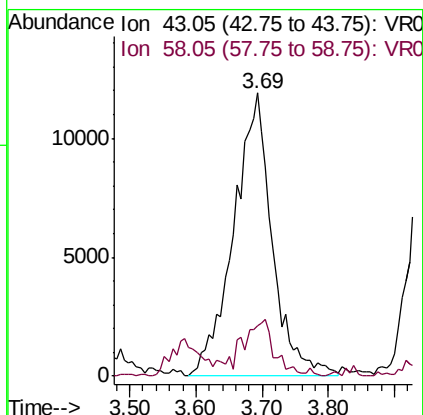
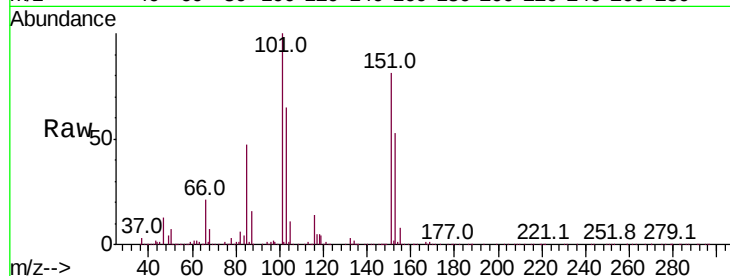
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 43 Resp: 48228

Ion Ratio Lower Upper

43 100

58 14.5 0.0 55.4



#17

Methyl tert-butyl Ether

Concen: 0.566 ug/L

RT: 4.89 min Scan# 528

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

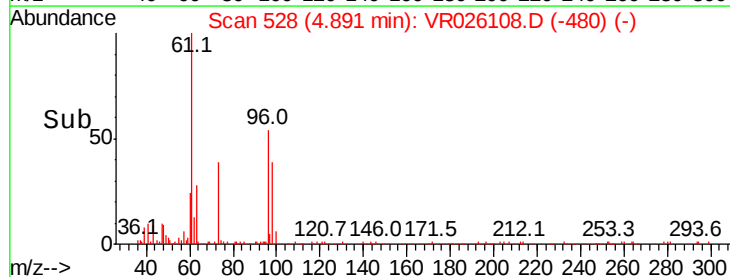
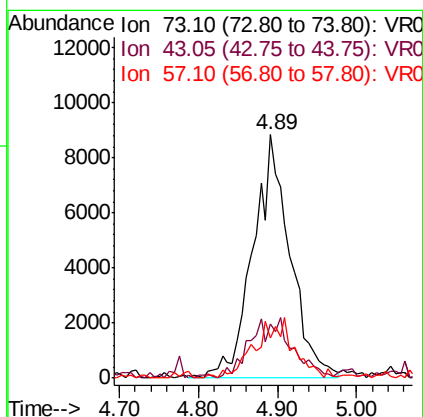
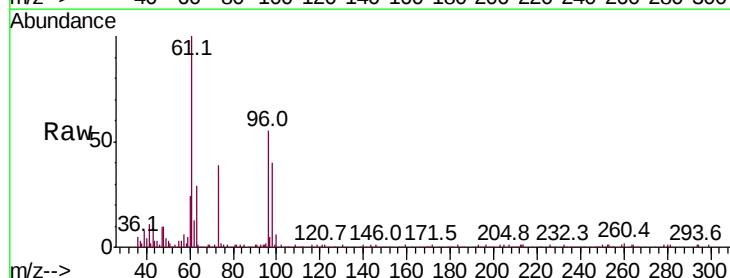
Tgt Ion: 73 Resp: 28718

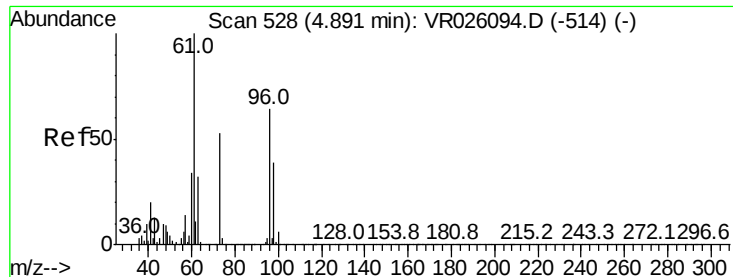
Ion Ratio Lower Upper

73 100

43 12.3 20.1 30.1#

57 12.4 19.0 28.4#





#18

trans-1,2-Dichloroethene

Concen: 1.142 ug/L

RT: 4.89 min Scan# 527

Delta R.T. -0.01 min

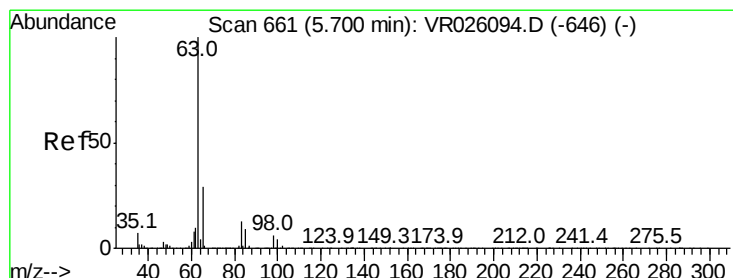
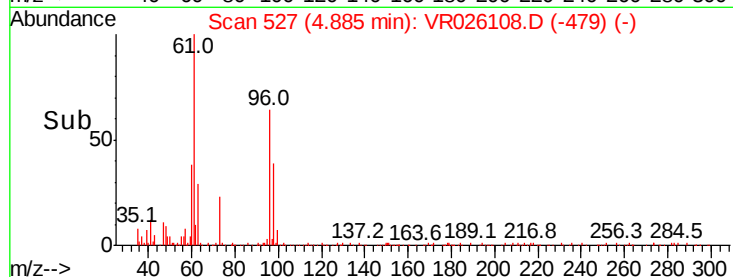
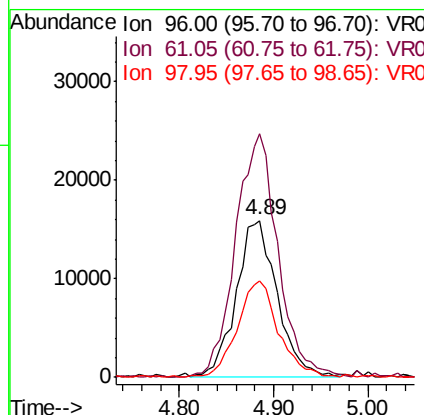
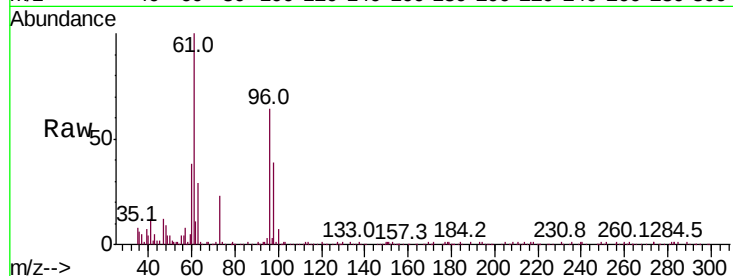
Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 96 Resp: 48291

Ion	Ratio	Lower	Upper
96	100		
61	155.1	111.4	206.8
98	61.0	41.4	77.0



#19

1,1-Dichloroethane

Concen: 0.899 ug/L

RT: 5.69 min Scan# 660

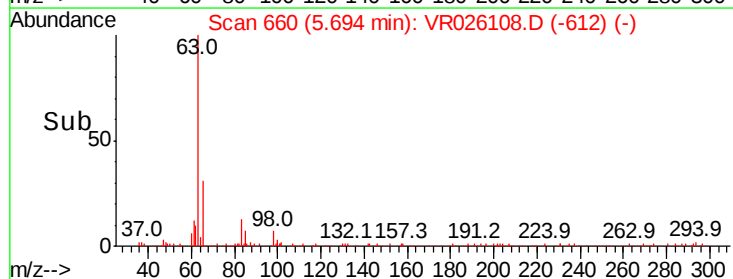
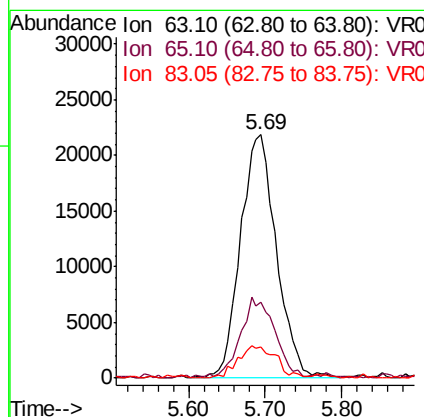
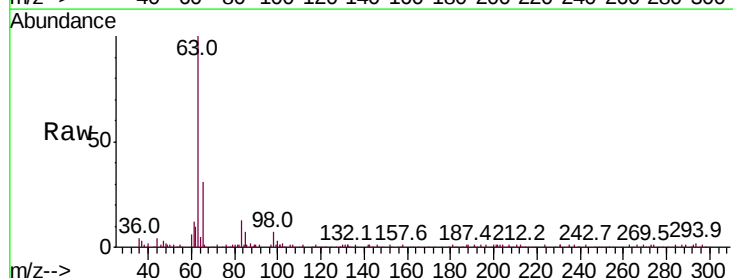
Delta R.T. -0.01 min

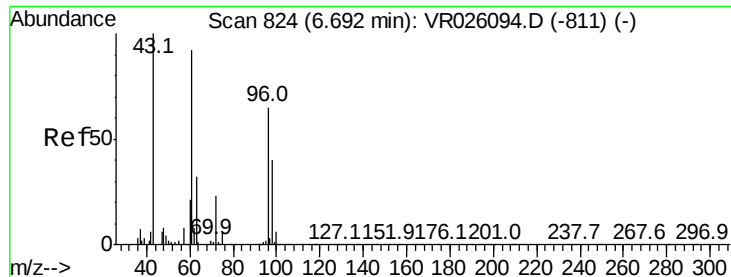
Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Tgt Ion: 63 Resp: 71365

Ion	Ratio	Lower	Upper
63	100		
65	31.0	21.2	39.4
83	12.6	9.2	17.2





#21

2-Butanone

Concen: 1.867 ug/L

RT: 6.70 min Scan# 825

Delta R.T. 0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

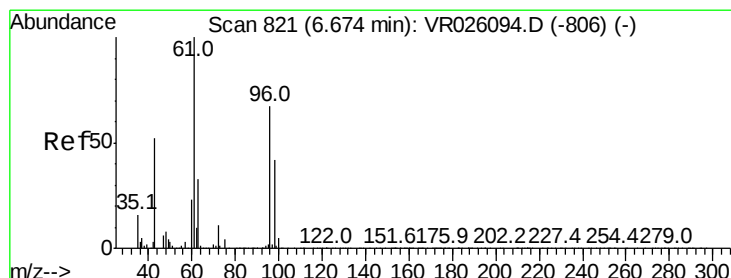
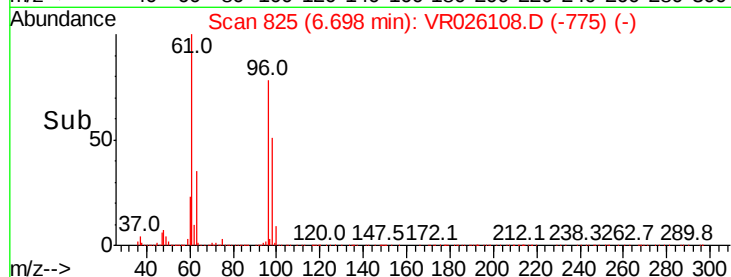
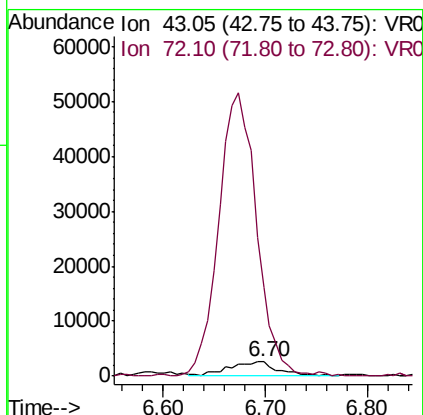
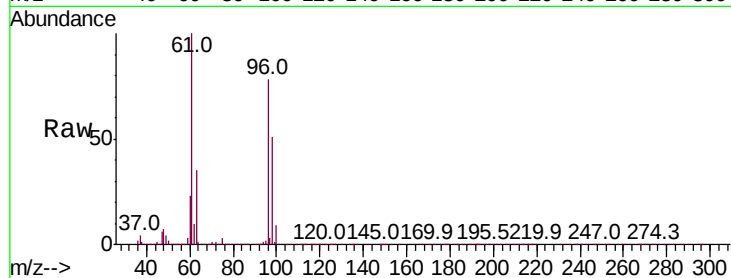
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 43 Resp: 9202

Ion Ratio Lower Upper

43 100

72 1450.3 12.3 36.8#



#22

cis-1,2-Dichloroethene

Concen: 249.147 ug/L

RT: 6.67 min Scan# 821

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

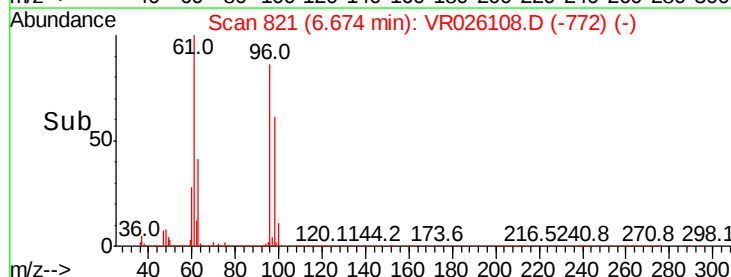
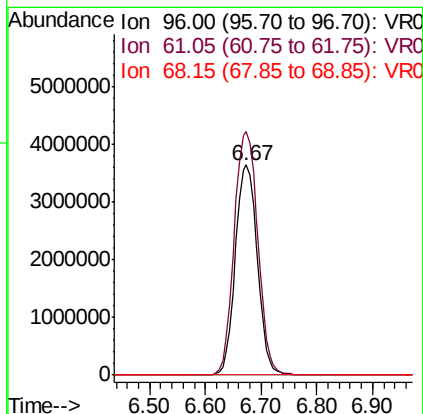
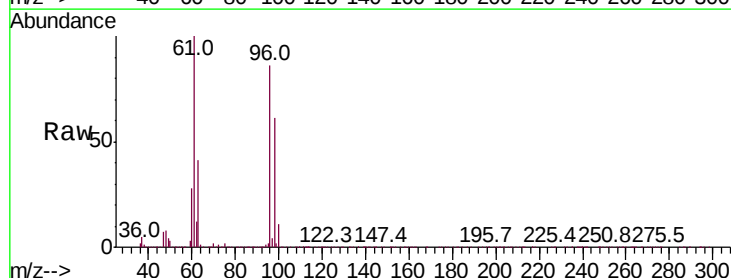
Tgt Ion: 96 Resp: 9969297

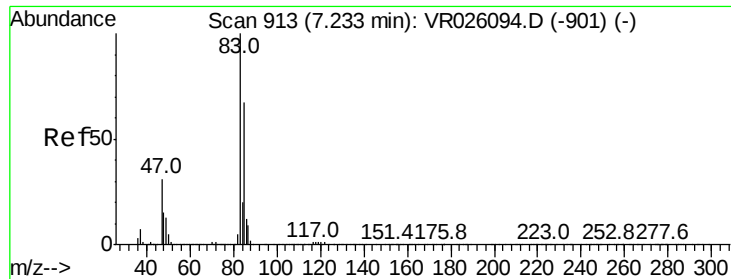
Ion Ratio Lower Upper

96 100

61 115.9 101.8 189.0

68 0.0 0.1 0.3#





#25

Chloroform

Concen: 0.249 ug/L

RT: 7.23 min Scan# 912

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

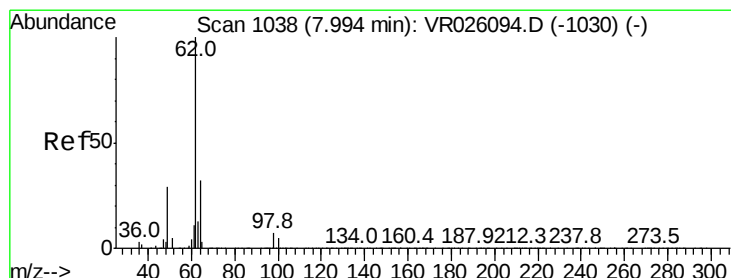
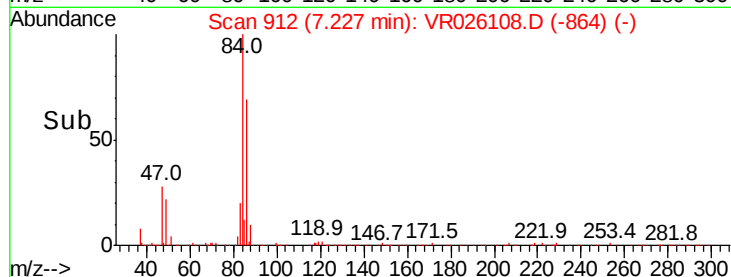
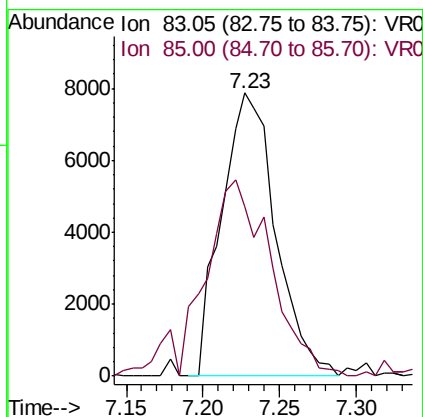
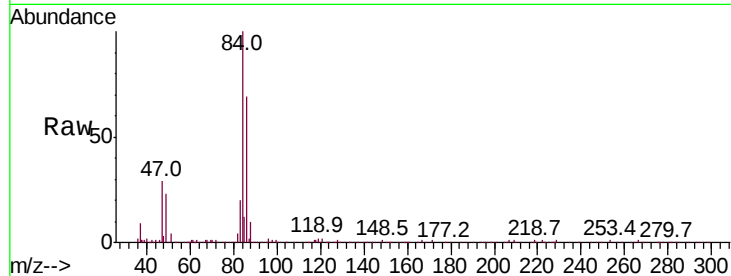
Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 83 Resp: 19304

Ion Ratio Lower Upper

83 100

85 59.9 43.5 80.7



#27

1,2-Dichloroethane

Concen: 0.163 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VR026108.D

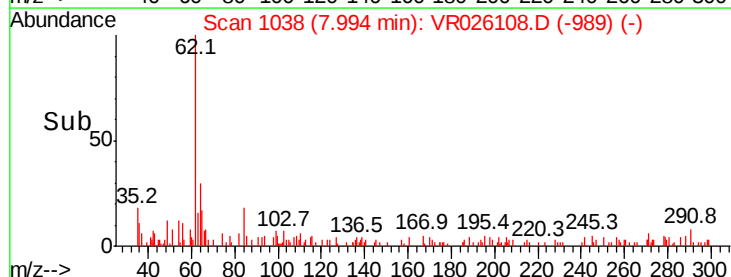
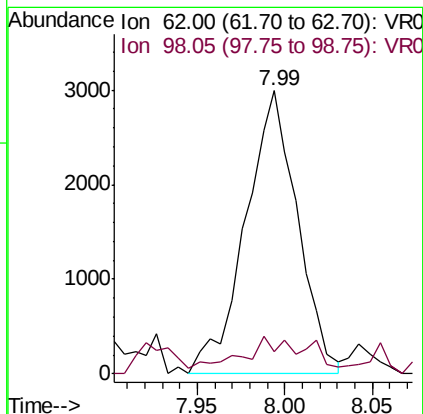
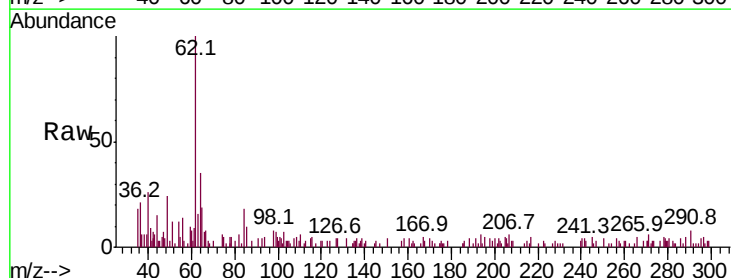
Acq: 16 Oct 2018 19:19

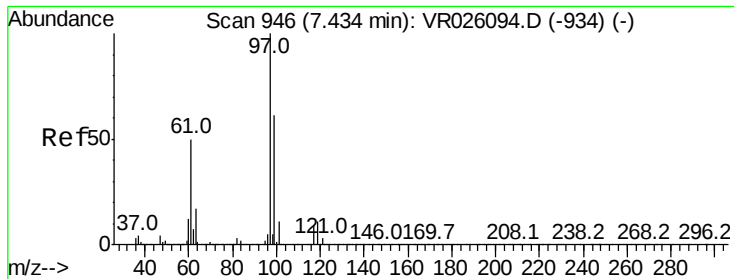
Tgt Ion: 62 Resp: 6179

Ion Ratio Lower Upper

62 100

98 8.1 5.6 8.4

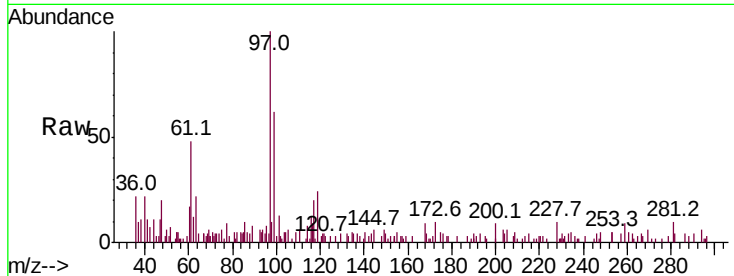




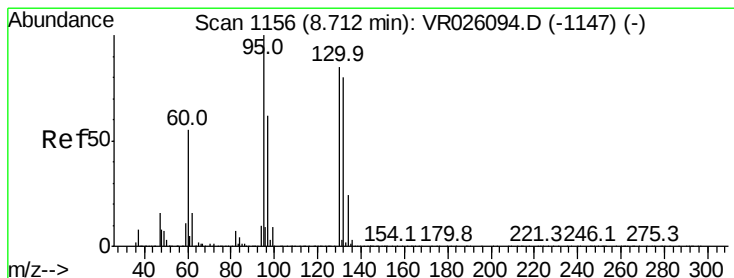
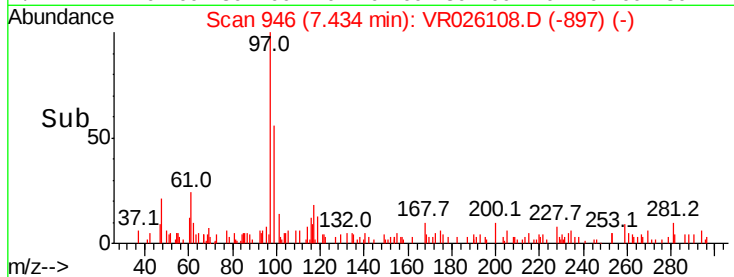
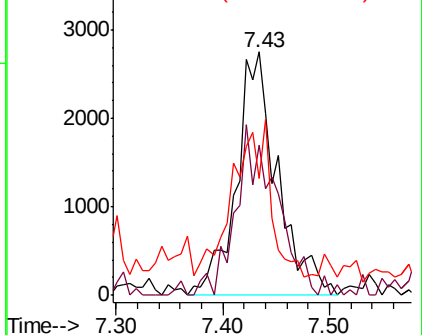
#29
1,1,1-Trichloroethane
Concen: 0.110 ug/L
RT: 7.43 min Scan# 946
Delta R.T. 0.00 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 97 Resp: 7390
Ion Ratio Lower Upper
97 100
99 69.4 51.1 76.7
61 58.3 42.1 63.1

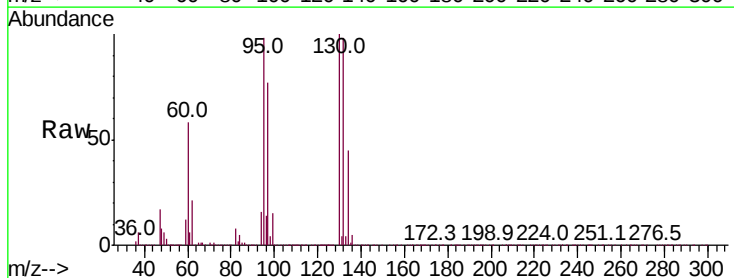


Abundance Ion 96.95 (96.65 to 97.65): VR0
Ion 99.05 (98.75 to 99.75): VR0
Ion 61.05 (60.75 to 61.75): VR0

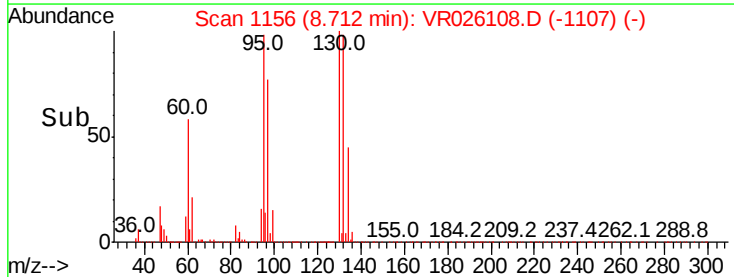
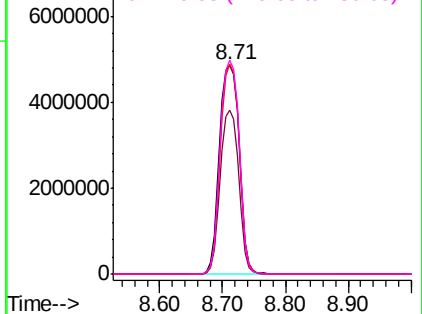


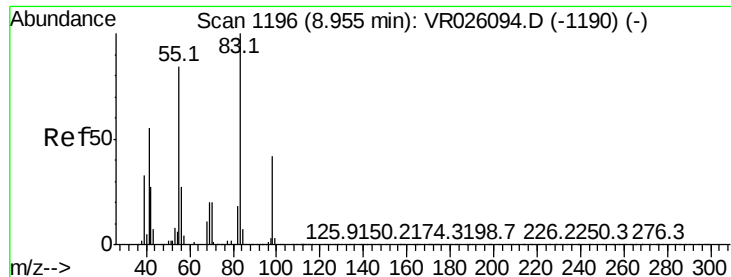
#34
Trichloroethene
Concen: 224.335 ug/L
RT: 8.71 min Scan# 1156
Delta R.T. 0.00 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Tgt Ion: 95 Resp:10637508
Ion Ratio Lower Upper
95 100
97 78.5 45.7 84.9
132 100.4 58.3 108.3
130 102.1 64.0 119.0



Abundance Ion 95.00 (94.70 to 95.70): VR0
Ion 96.95 (96.65 to 97.65): VR0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V

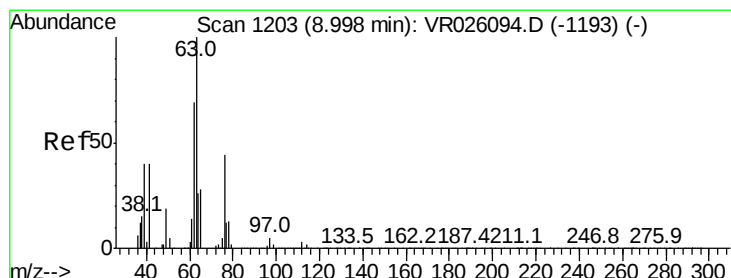
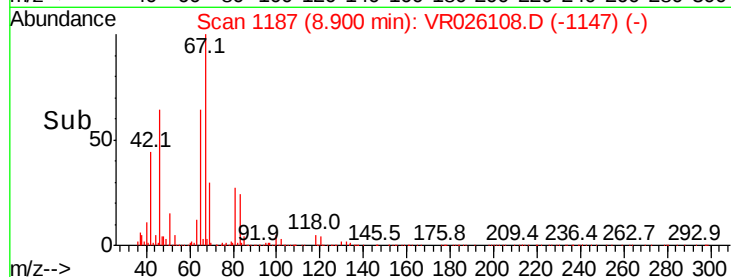
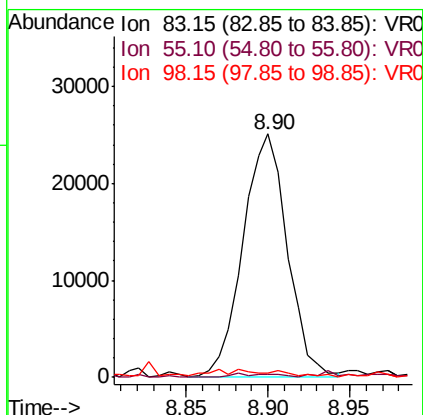
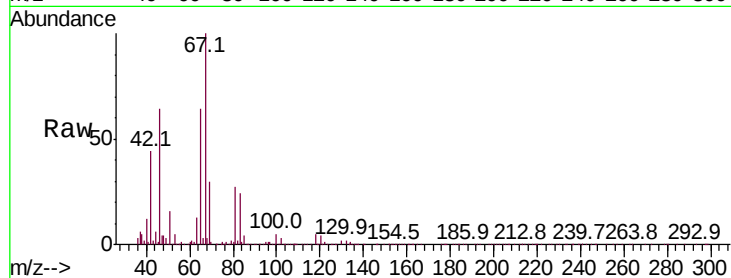




#35
Methvlcvclohexane
Concen: 0.674 ug/L
RT: 8.90 min Scan# 1187
Delta R.T. -0.05 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

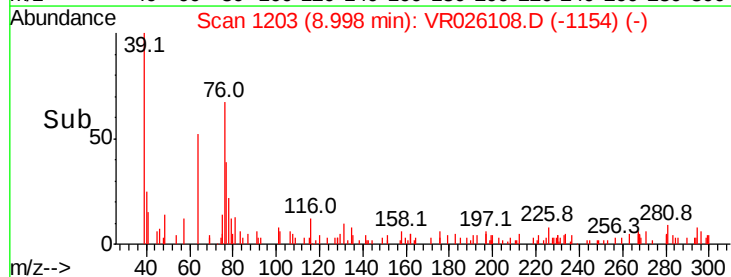
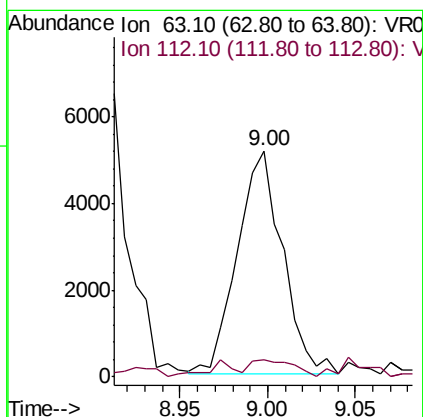
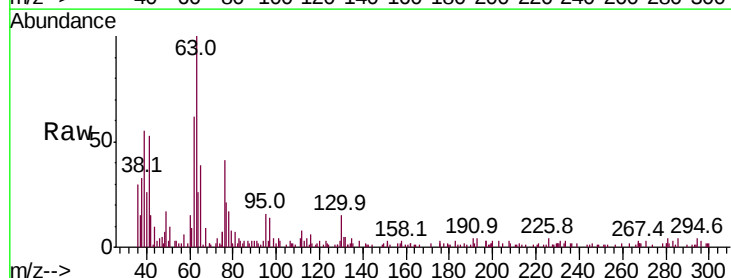
Instrument :
MSVOA_R
ClientSampleId :

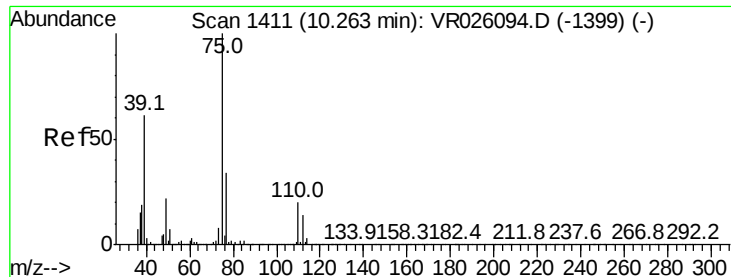
Tot Ion: 83 Resp: 47570
Ion Ratio Lower Upper
83 100
55 1.6 66.8 100.2#
98 0.0 35.2 52.8#



#37
1,2-Dichloropropane
Concen: 0.238 ug/L
RT: 9.00 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Tgt Ion: 63 Resp: 9298
Ion Ratio Lower Upper
63 100
112 7.2 2.7 4.1#





#44

trans-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 10.24 min Scan# 1407

Delta R.T. -0.02 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

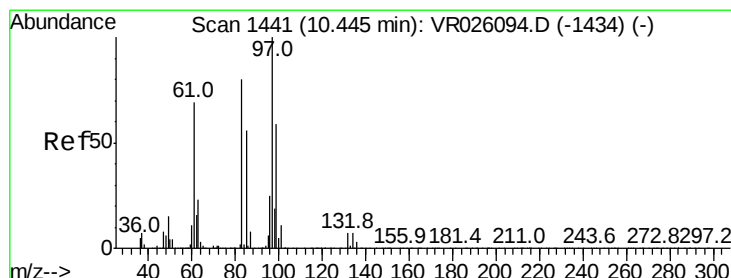
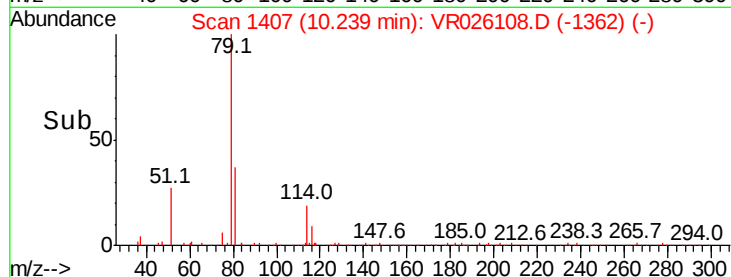
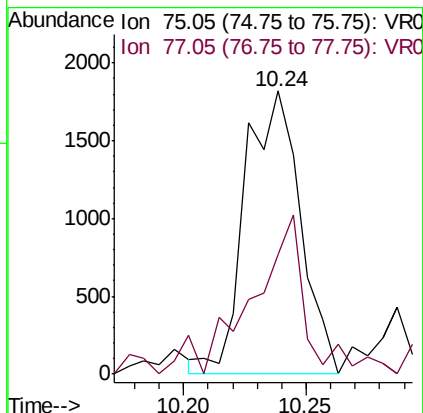
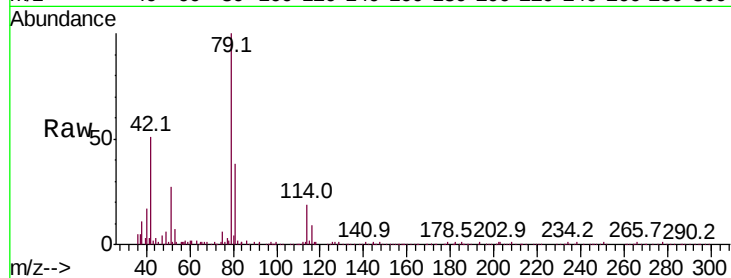
ClientSampleId :

Tot Ion: 75 Resp: 2850

Ion Ratio Lower Upper

75 100

77 42.3 24.1 44.7



#45

1,1,2-Trichloroethane

Concen: 0.515 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Tgt Ion: 97 Resp: 8487

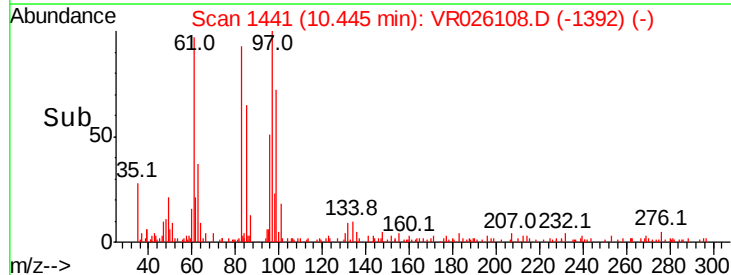
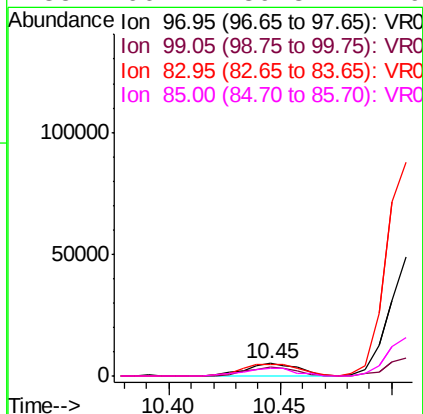
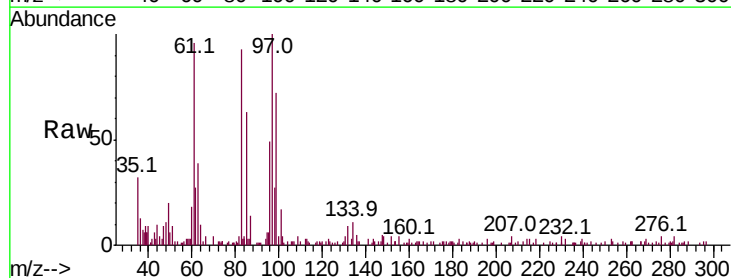
Ion Ratio Lower Upper

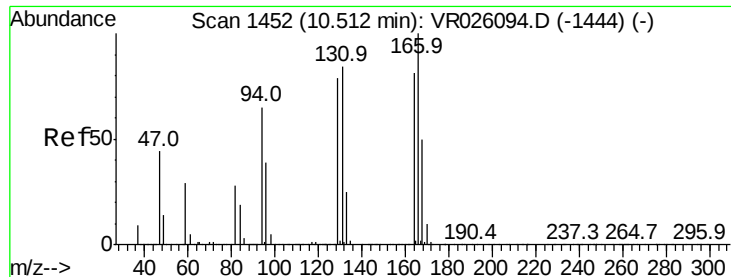
97 100

99 71.7 42.8 79.4

83 92.9 61.9 114.9

85 66.4 39.3 72.9





#47

Tetrachloroethene

Concen: 265.751 ug/L

RT: 10.52 min Scan# 1453

Delta R.T. 0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

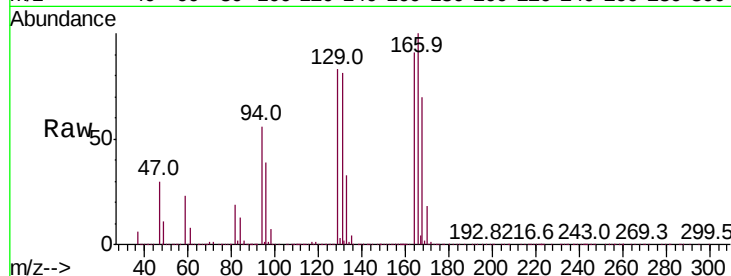
Instrument :

MSVOA_R

ClientSampleId :

Tot Ion:164 Resp: 8998563

Ion	Ratio	Lower	Upper
164	100		
129	91.3	70.3	130.5
131	89.4	67.3	125.1
166	110.0	86.1	159.9



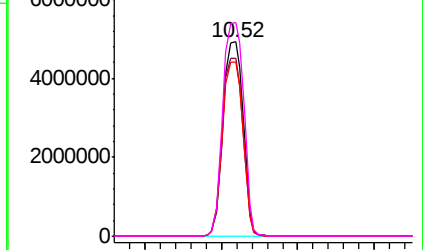
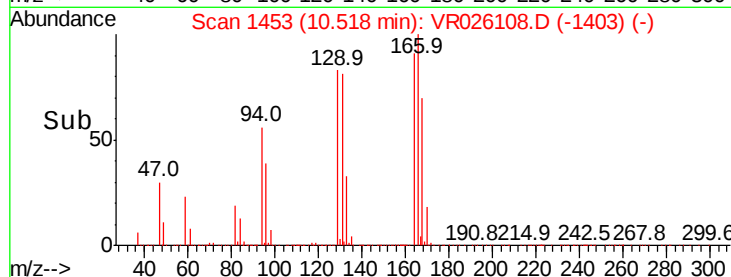
Abundance

Ion 163.90 (163.60 to 164.60): V

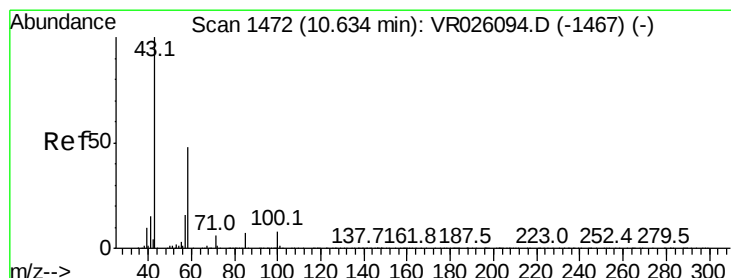
Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



Time-->



#48

2-Hexanone

Concen: 3.390 ug/L

RT: 10.59 min Scan# 1465

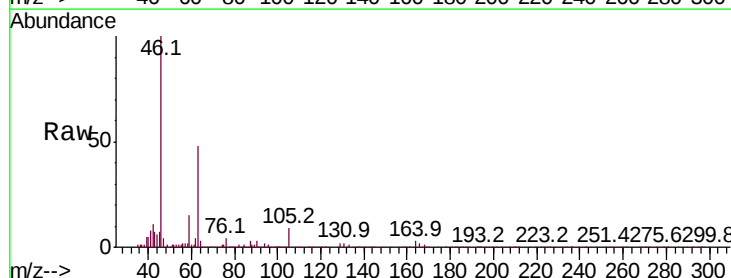
Delta R.T. -0.04 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Tgt Ion: 43 Resp: 26428

Ion	Ratio	Lower	Upper
43	100		
58	25.7	39.6	59.4#
57	25.5	14.0	21.0#
100	0.9	7.0	10.6#



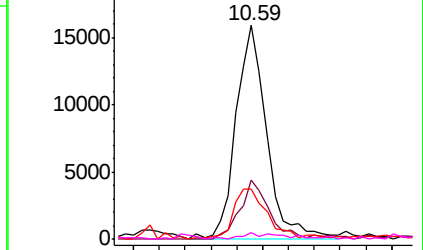
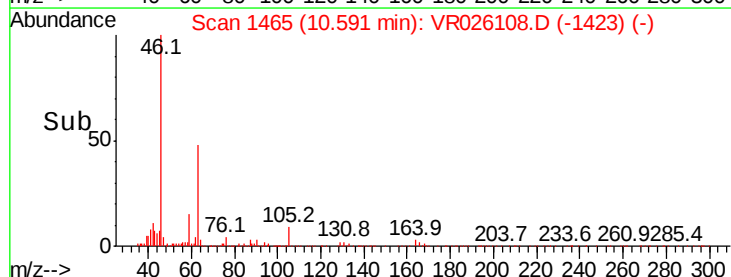
Abundance

Ion 43.05 (42.75 to 43.75): VR0

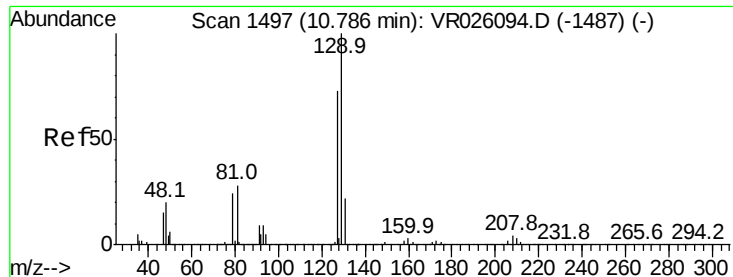
Ion 58.05 (57.75 to 58.75): VR0

Ion 57.20 (56.90 to 57.90): VR0

Ion 100.15 (99.85 to 100.85): VR0



Time-->



#49

Dibromochloromethane

Concen: 387.065 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.27 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

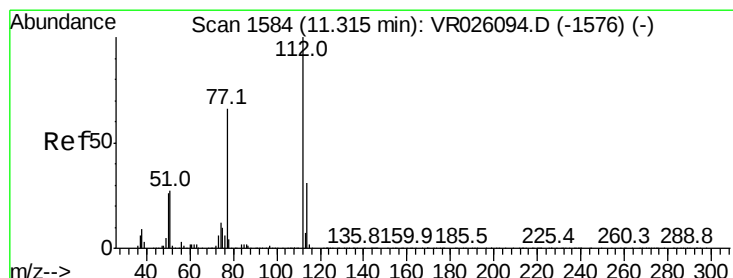
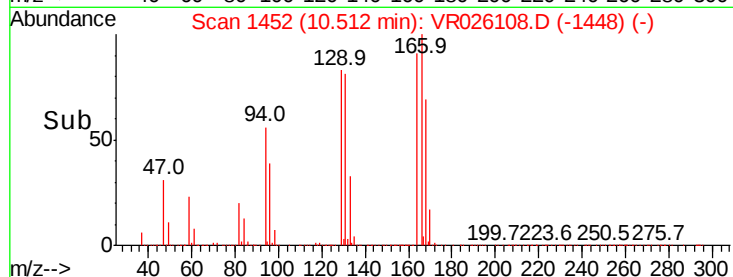
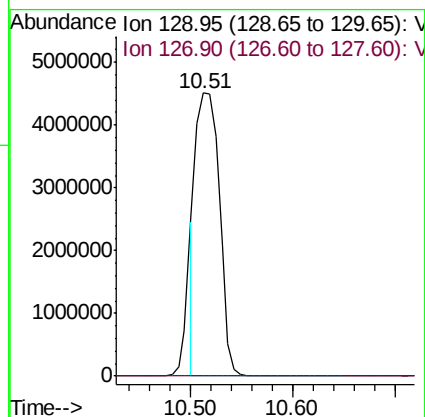
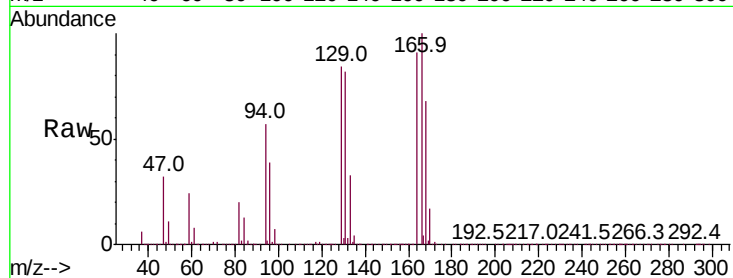
ClientSampled :

Tot Ion:129 Resp: 7181456

Ion Ratio Lower Upper

129 100

127 0.0 55.0 102.2#



#51

Chlorobenzene

Concen: 0.883 ug/L

RT: 11.32 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

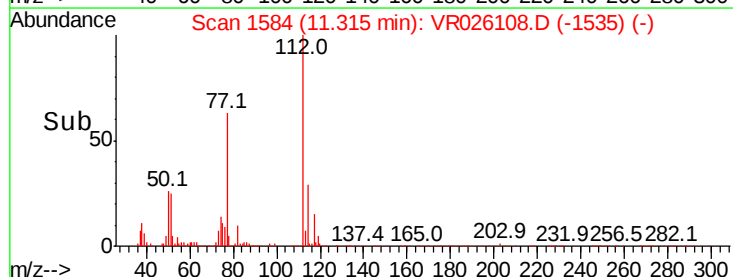
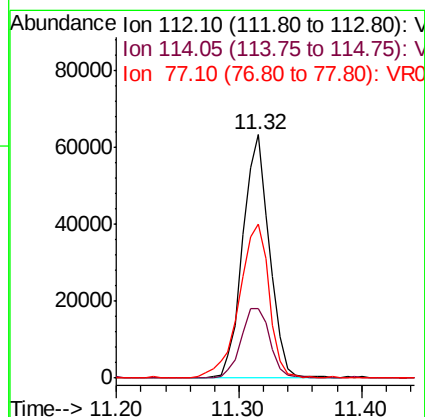
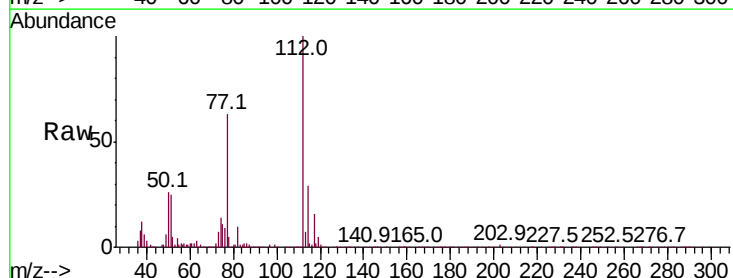
Tgt Ion:112 Resp: 95550

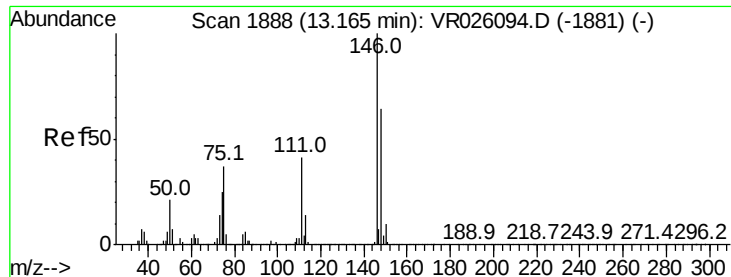
Ion Ratio Lower Upper

112 100

114 28.8 22.8 42.4

77 63.4 51.5 77.3





#62

1,3-Dichlorobenzene

Concen: 0.320 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

ClientSampleId :

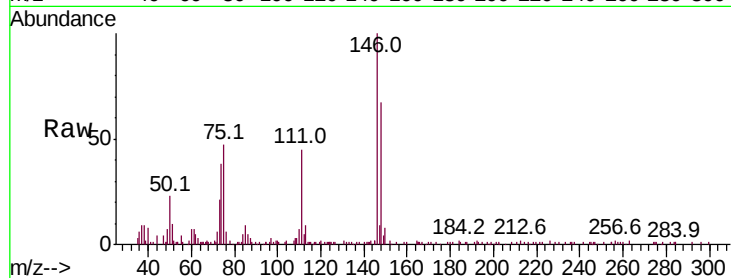
Tot Ion:146 Resp: 17678

Ion Ratio Lower Upper

146 100

111 45.4 32.1 59.7

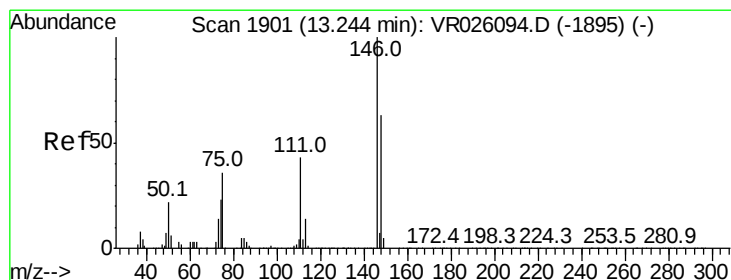
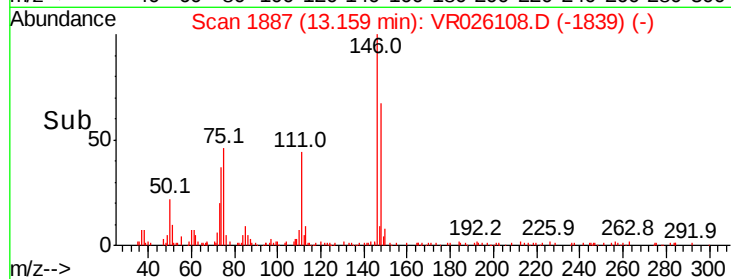
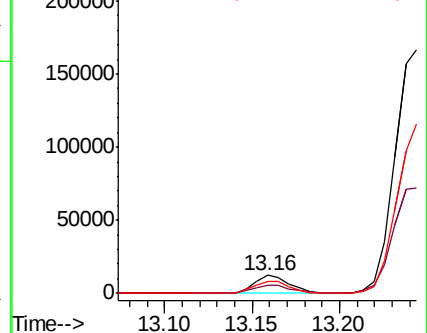
148 66.9 43.8 81.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.235 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

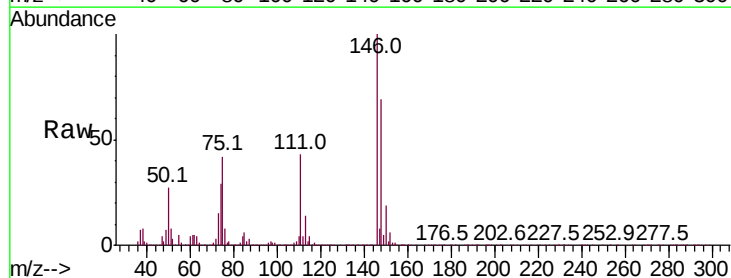
Tgt Ion:146 Resp: 242321

Ion Ratio Lower Upper

146 100

111 43.5 32.6 60.6

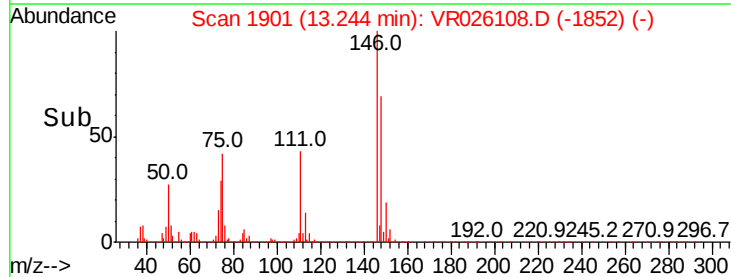
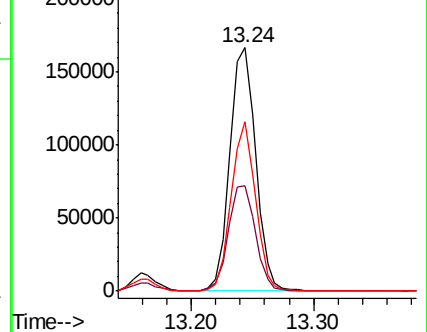
148 69.3 46.7 86.7

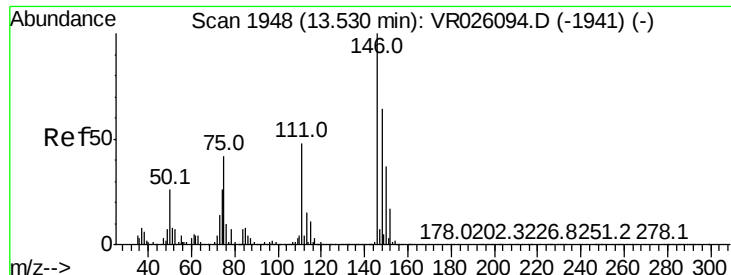


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

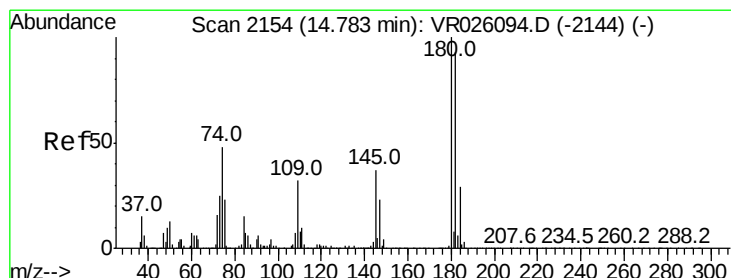
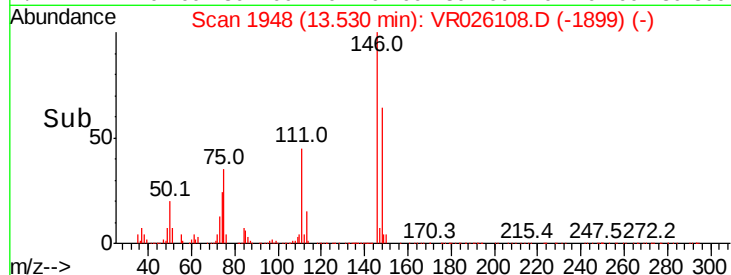
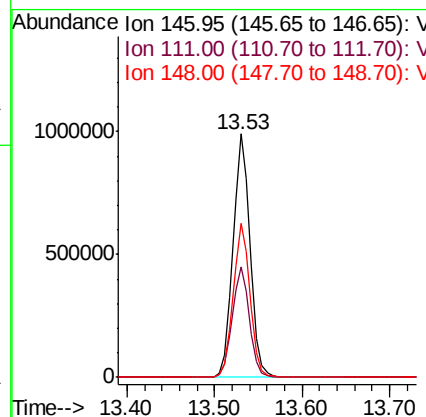
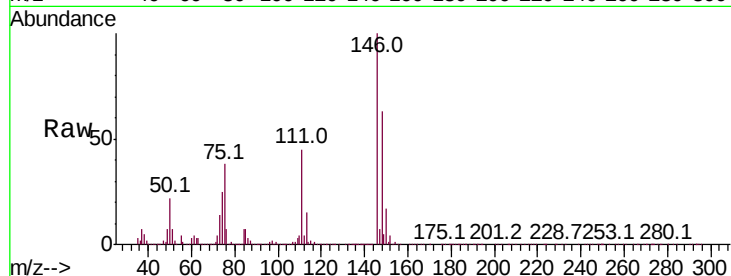




#65
1,2-Dichlorobenzene
Concen: 30.055 ug/L
RT: 13.53 min Scan# 1948
Delta R.T. 0.00 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Instrument :
MSVOA_R
ClientSampled :

Tot Ion:146 Resp: 1332721
Ion Ratio Lower Upper
146 100
111 45.2 35.2 52.8
148 63.4 51.2 76.8



#68
1,2,4-trichlorobenzene
Concen: 0.124 ug/L
RT: 14.80 min Scan# 2156
Delta R.T. 0.01 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Tgt Ion:180 Resp: 2442
Ion Ratio Lower Upper
180 100
182 91.5 76.1 114.1
145 50.5 28.2 42.4#

