

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101618\
 Data File : VR026109.D
 Acq On : 16 Oct 2018 19:52
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Oct 17 08:54:10 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	563679	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	489218	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	191442	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	221617	4.49	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.80%
7) Chloroethane-d5	2.62	69	207391	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.80%
11) 1,1-Dichloroethene-d2	3.61	63	568761	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.80%
20) 2-Butanone-d5	6.59	46	221635	54.72	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.44%
24) Chloroform-d	7.20	84	377887	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	7.90	65	157718	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
32) Benzene-d6	7.85	84	716208	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
36) 1,2-Dichloropropane-d6	8.90	67	191145	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	9.97	98	678029	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.40%
43) trans-1,3-Dichloropropene-	10.24	79	45691	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	10.59	63	179645	58.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.88%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	83572	5.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.00%
64) 1,2-Dichlorobenzene-d4	13.52	152	136318	4.51	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	170307	4.498 ug/L	93
3) Chloromethane	2.01	50	295518	4.915 ug/L	95
5) Vinyl chloride	2.17	62	315670	5.270 ug/L	97
6) Bromomethane	2.52	94	199420	5.041 ug/L	94
8) Chloroethane	2.66	64	188928	5.090 ug/L	99
9) Trichlorofluoromethane	2.93	101	207839	2.404 ug/L #	34
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	265675	5.154 ug/L	100
12) 1,1-Dichloroethene	3.63	96	283710	5.176 ug/L	87
13) Acetone	3.70	43	205894	49.176 ug/L	98
14) Carbon disulfide	3.93	76	754342	5.264 ug/L	99
15) Methyl Acetate	4.19	43	56032	5.123 ug/L	99
16) Methylene chloride	4.40	84	241803	4.865 ug/L	99
17) Methyl tert-butyl Ether	4.89	73	238156	4.786 ug/L	98
18) trans-1,2-Dichloroethene	4.88	96	199615	4.816 ug/L	98
19) 1,1-Dichloroethane	5.69	63	371102	4.768 ug/L	98
21) 2-Butanone	6.69	43	237358	49.142 ug/L	99
22) cis-1,2-Dichloroethene	6.67	96	200682	5.118 ug/L #	95

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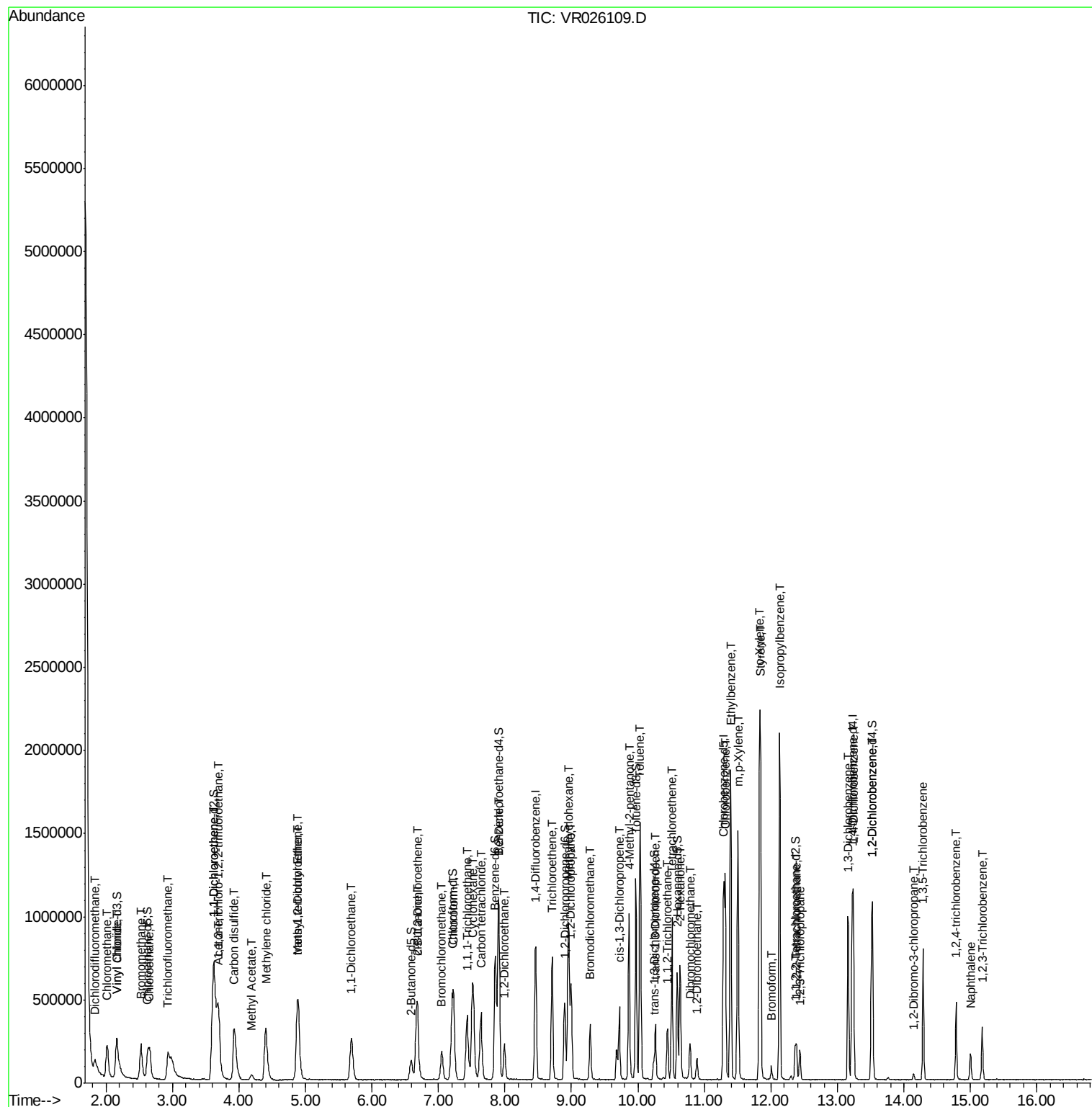
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	53250	4.841	ug/L	96
25) Chloroform	7.23	83	368522	4.852	ug/L	99
27) 1,2-Dichloroethane	7.99	62	181268	4.875	ug/L	98
29) 1,1,1-Trichloroethane	7.43	97	316531	4.735	ug/L	99
30) Cyclohexane	7.51	56	345409	5.147	ug/L	99
31) Carbon tetrachloride	7.63	117	286284	4.710	ug/L	100
33) Benzene	7.91	78	894134	4.871	ug/L	100
34) Trichloroethene	8.71	95	226284	4.816	ug/L	97
35) Methylcyclohexane	8.95	83	350100	5.005	ug/L	98
37) 1,2-Dichloropropane	9.00	63	188017	4.855	ug/L	99
38) Bromodichloromethane	9.28	83	203686	4.890	ug/L	99
39) cis-1,3-Dichloropropene	9.72	75	219077	4.942	ug/L	98
40) 4-Methyl-2-pentanone	9.87	43	635944	53.768	ug/L	98
42) Toluene	10.03	91	977647	5.046	ug/L	97
44) trans-1,3-Dichloropropene	10.26	75	148238	4.787	ug/L	100
45) 1,1,2-Trichloroethane	10.45	97	82357	5.041	ug/L	97
47) Tetrachloroethene	10.51	164	160942	4.797	ug/L	96
48) 2-Hexanone	10.63	43	416989	53.979	ug/L	99
49) Dibromochloromethane	10.79	129	90589	4.928	ug/L	95
50) 1,2-Dibromoethane	10.89	107	67889	4.810	ug/L	89
51) Chlorobenzene	11.32	112	511594	4.770	ug/L	98
52) Ethylbenzene	11.39	91	1133747	5.089	ug/L	99
53) m,p-Xylene	11.50	106	407988	5.026	ug/L	98
54) o-Xylene	11.83	106	376317	5.057	ug/L	99
55) Styrene	11.84	104	595896	5.202	ug/L	98
56) Isopropylbenzene	12.13	105	1082299	5.236	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	81783	4.926	ug/L	99
59) 1,2,3-Trichloropropane	12.43	75	64083	5.257	ug/L	97
61) Bromoform	12.01	173	30125	4.527	ug/L	100
62) 1,3-Dichlorobenzene	13.16	146	301631	4.743	ug/L	95
63) 1,4-Dichlorobenzene	13.24	146	314714	4.778	ug/L	95
65) 1,2-Dichlorobenzene	13.53	146	243499	4.770	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.14	75	8305	3.993	ug/L #	86
67) 1,3,5-Trichlorobenzene	14.29	180	169403	4.372	ug/L	99
68) 1,2,4-trichlorobenzene	14.79	180	101179	4.473	ug/L	99
69) Naphthalene	15.00	128	104065	4.738	ug/L	99
70) 1,2,3-Trichlorobenzene	15.18	180	73324	4.668	ug/L	99

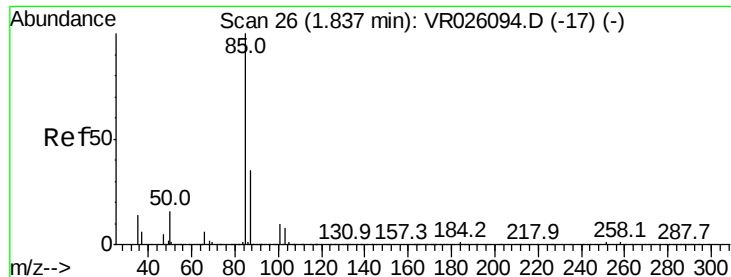
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.498 ug/L

RT: 1.84 min Scan# 26

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

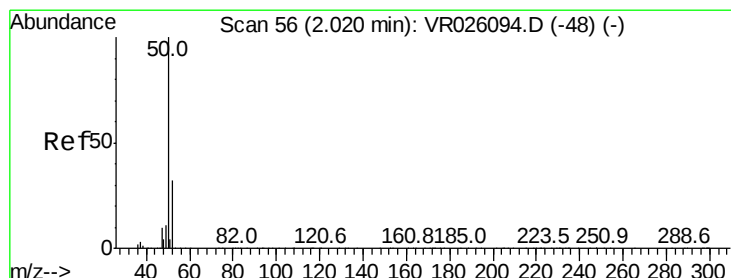
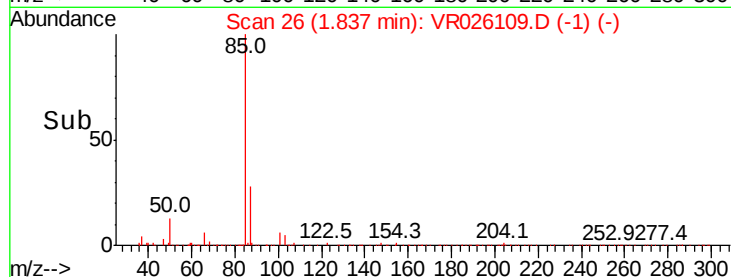
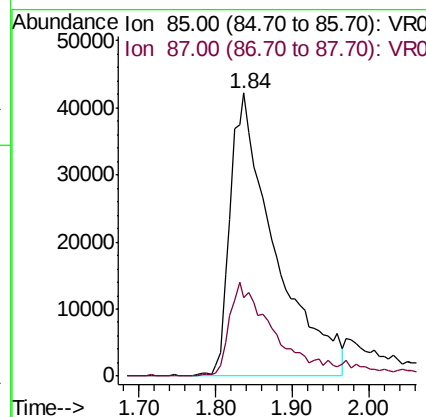
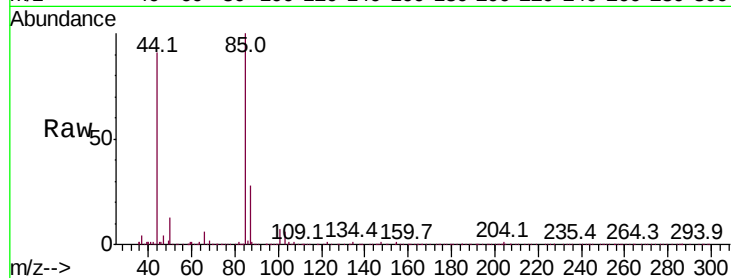
ClientSampleId :

Tot Ion: 85 Resp: 170307

Ion Ratio Lower Upper

85 100

87 33.0 23.4 35.2



#3

Chloromethane

Concen: 4.915 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.01 min

Lab File: VR026109.D

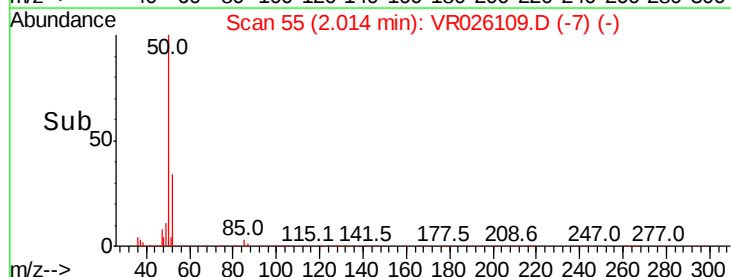
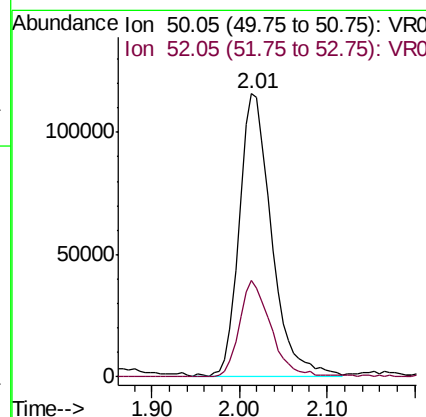
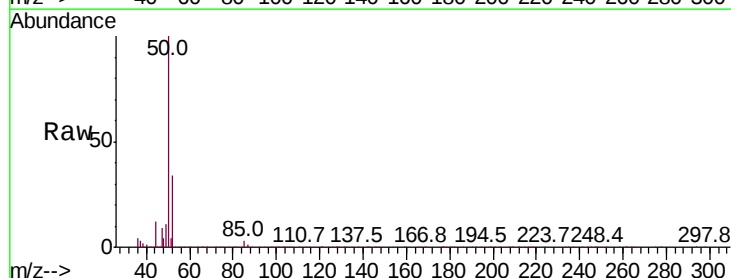
Acq: 16 Oct 2018 19:52

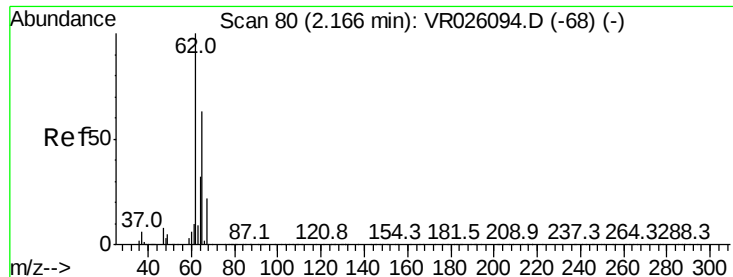
Tgt Ion: 50 Resp: 295518

Ion Ratio Lower Upper

50 100

52 34.1 22.0 40.8





#5

Vinyl chloride

Concen: 5.270 ug/L

RT: 2.17 min Scan# 80

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

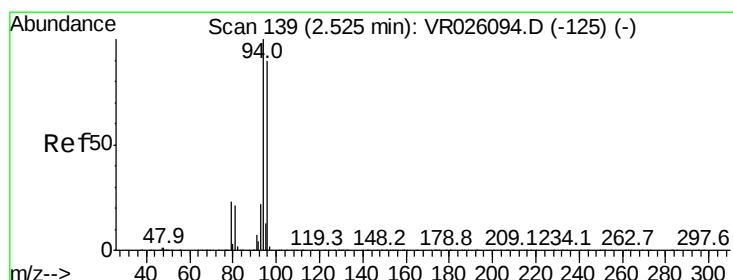
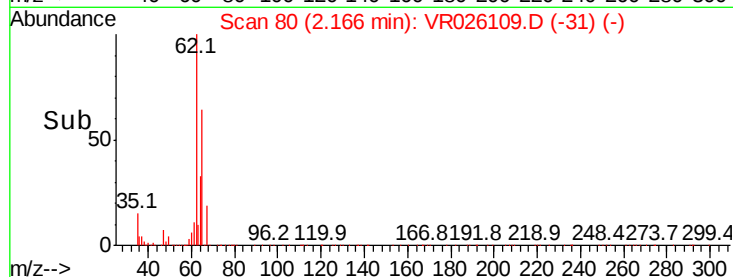
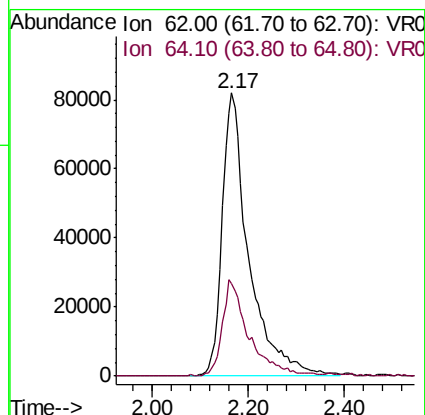
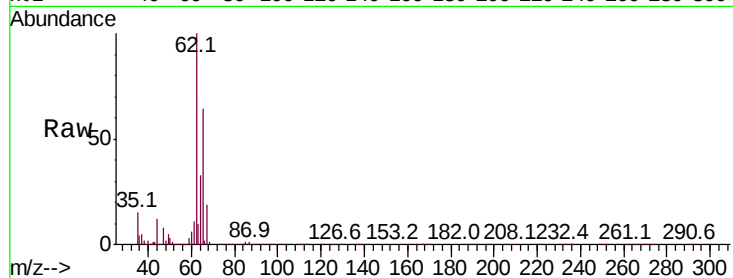
Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 62 Resp: 315670

Ion Ratio Lower Upper

62 100

64 32.6 23.9 44.3



#6

Bromomethane

Concen: 5.041 ug/L

RT: 2.52 min Scan# 139

Delta R.T. -0.00 min

Lab File: VR026109.D

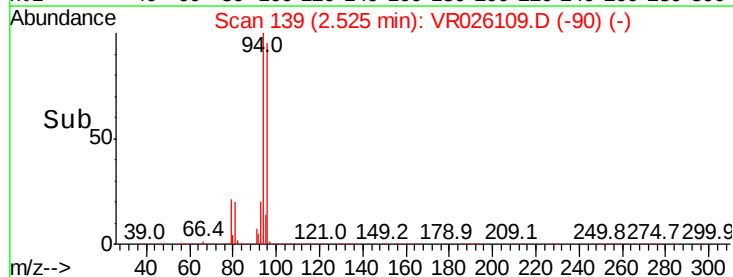
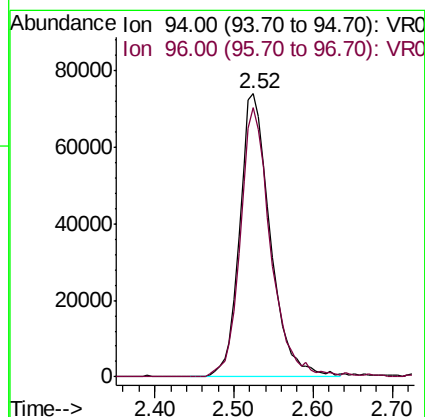
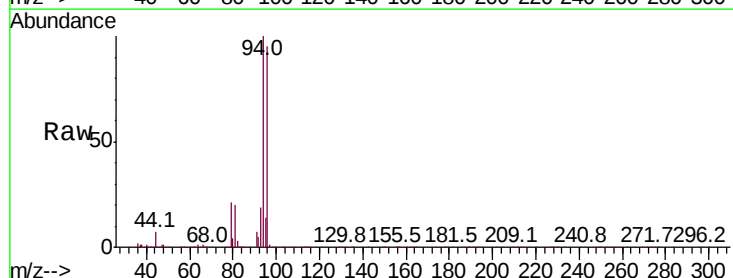
Acq: 16 Oct 2018 19:52

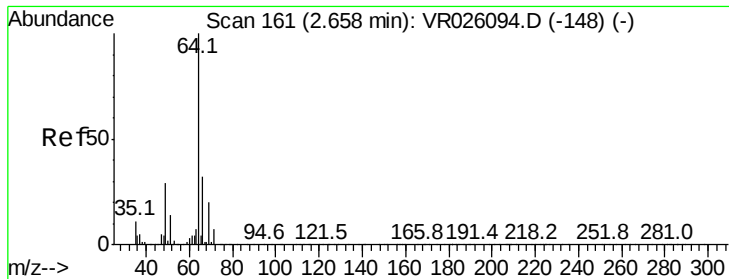
Tgt Ion: 94 Resp: 199420

Ion Ratio Lower Upper

94 100

96 95.1 62.5 116.1

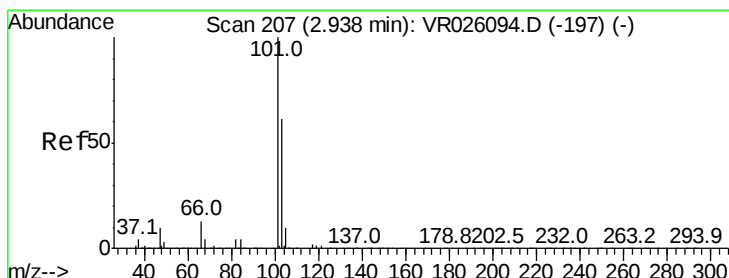
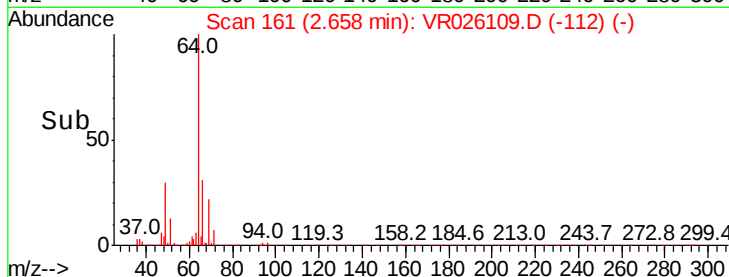
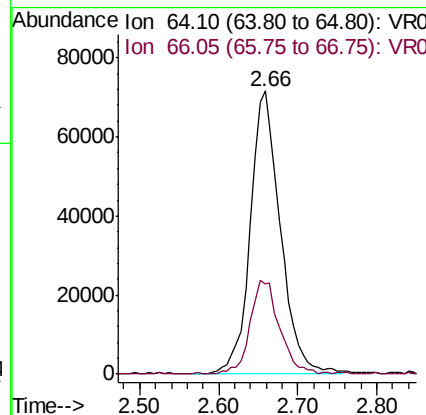
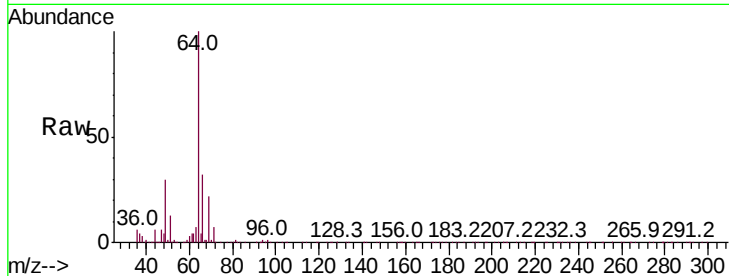




#8
Chloroethane
Concen: 5.090 ug/L
RT: 2.66 min Scan# 161
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

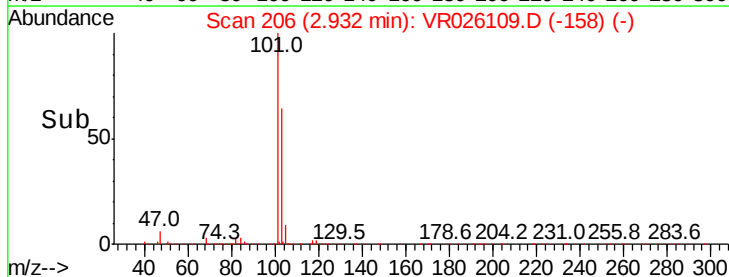
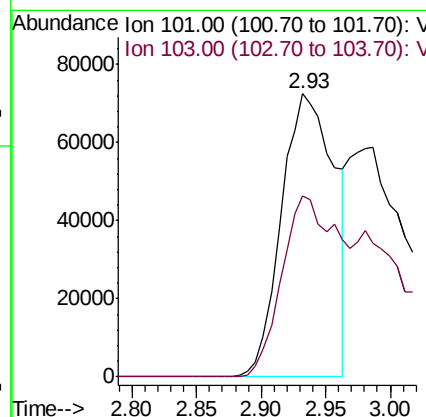
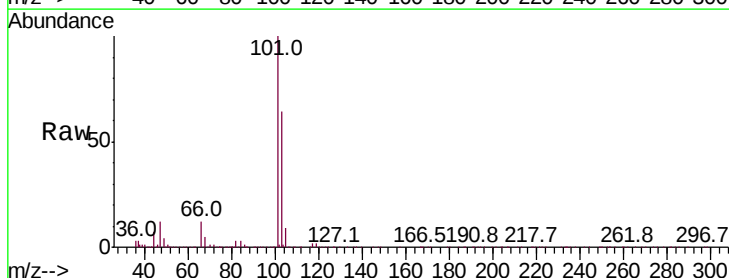
Instrument :
MSVOA_R
ClientSampleId :

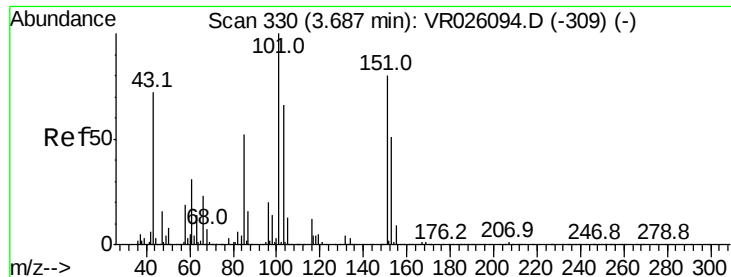
Tot Ion: 64 Resp: 188928
Ion Ratio Lower Upper
64 100
66 31.7 22.0 40.8



#9
Trichlorofluoromethane
Concen: 2.404 ug/L
RT: 2.93 min Scan# 206
Delta R.T. -0.01 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Tgt Ion: 101 Resp: 207839
Ion Ratio Lower Upper
101 100
103 69.8 26.0 39.0#





#10

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

Concen: 5.154 ug/L

RT: 3.68 min Scan# 329

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

ClientSampleId :

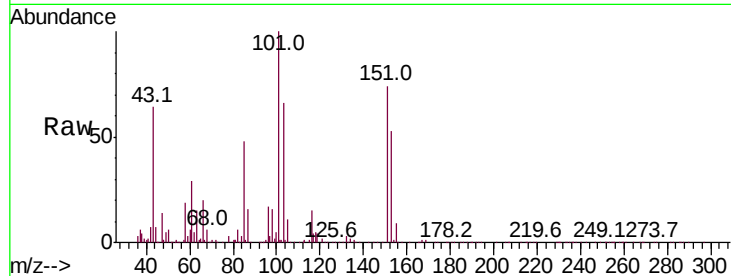
Tot Ion:101 Resp: 265675

Ion Ratio Lower Upper

101 100

85 47.4 37.8 56.8

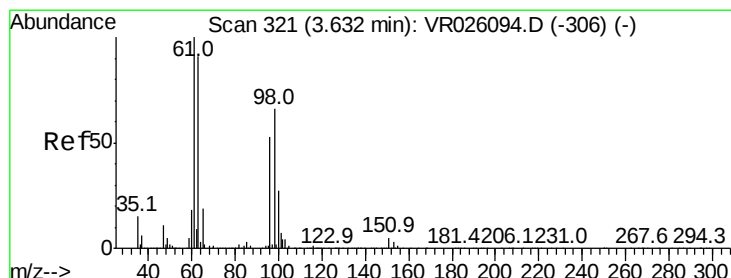
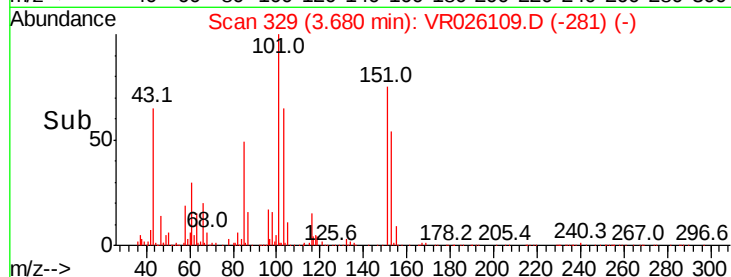
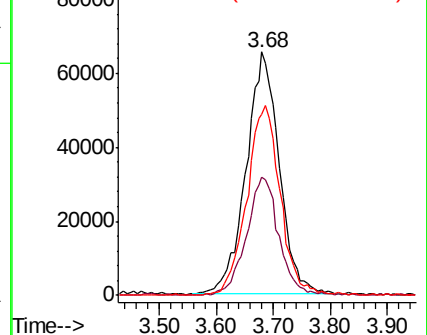
151 78.6 63.2 94.8



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: 5.176 ug/L

RT: 3.63 min Scan# 320

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

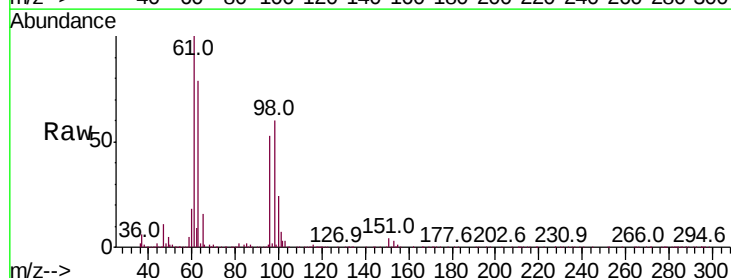
Tgt Ion: 96 Resp: 283710

Ion Ratio Lower Upper

96 100

61 187.1 126.7 235.3

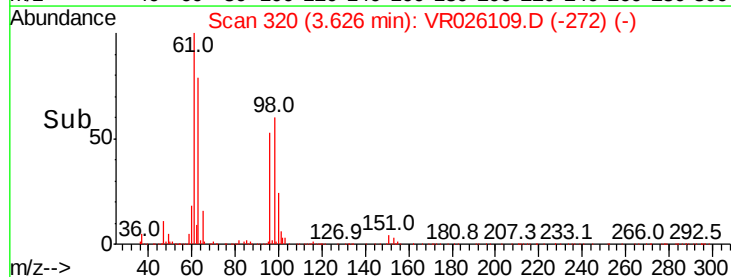
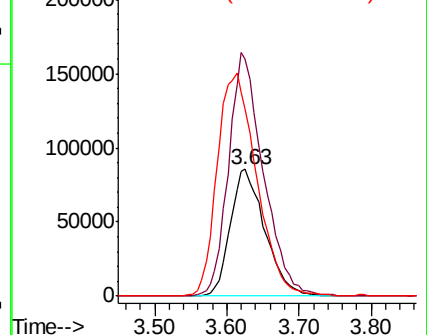
63 148.0 125.0 232.2

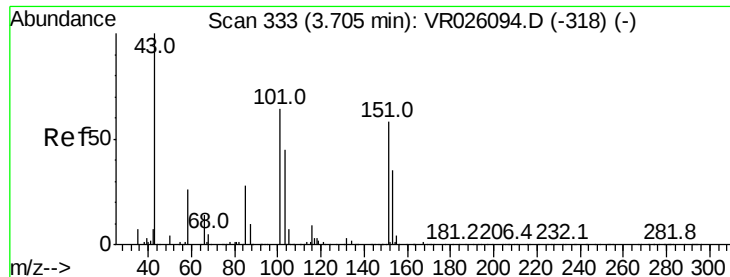


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 49.176 ug/L

RT: 3.70 min Scan# 332

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

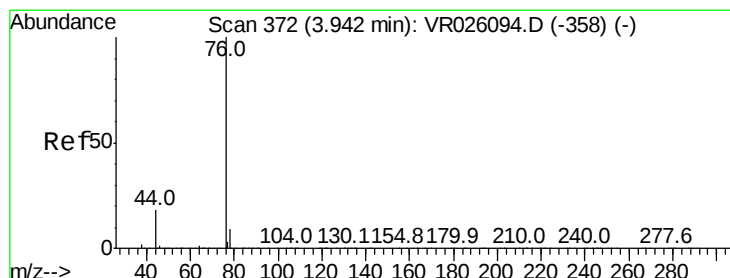
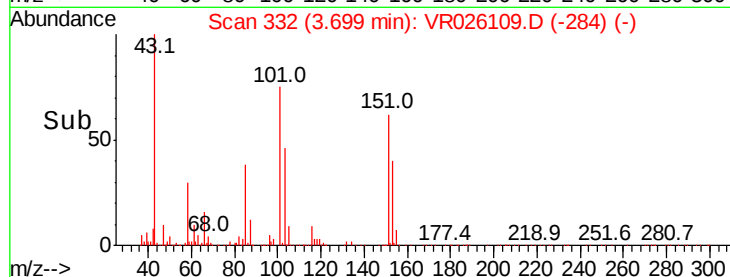
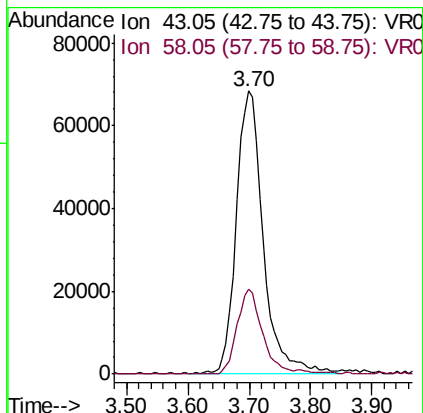
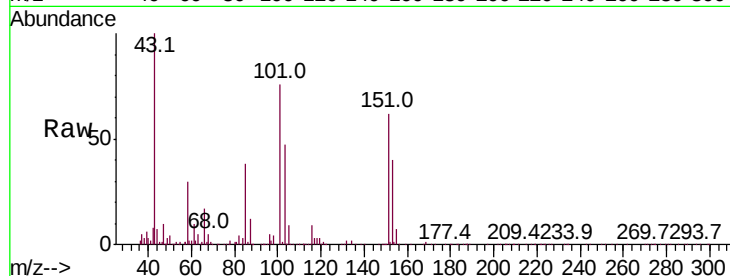
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 43 Resp: 205894

Ion Ratio Lower Upper

43 100

58 28.9 0.0 55.4



#14

Carbon disulfide

Concen: 5.264 ug/L

RT: 3.93 min Scan# 370

Delta R.T. -0.01 min

Lab File: VR026109.D

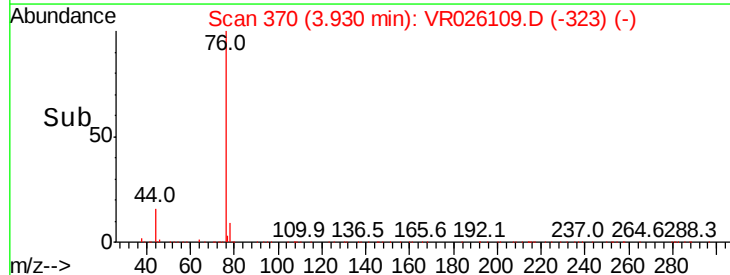
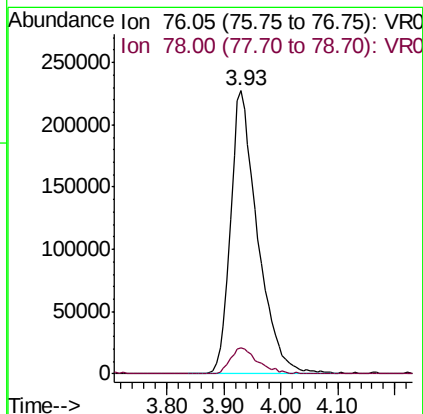
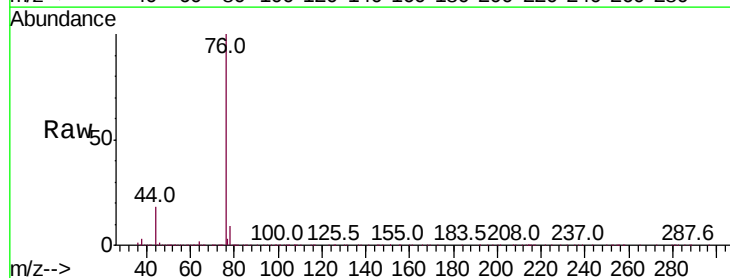
Acq: 16 Oct 2018 19:52

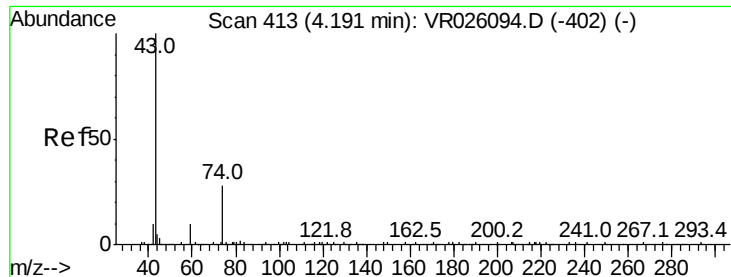
Tgt Ion: 76 Resp: 754342

Ion Ratio Lower Upper

76 100

78 9.3 7.6 11.4





#15

Methyl Acetate

Concen: 5.123 ug/L

RT: 4.19 min Scan# 413

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

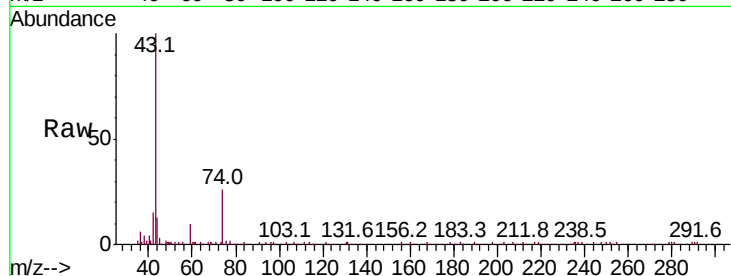
Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 43 Resp: 56032

Ion Ratio Lower Upper

43 100

74 24.1 19.8 29.8



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 74.05 (73.75 to 74.75): VR0

20000

15000

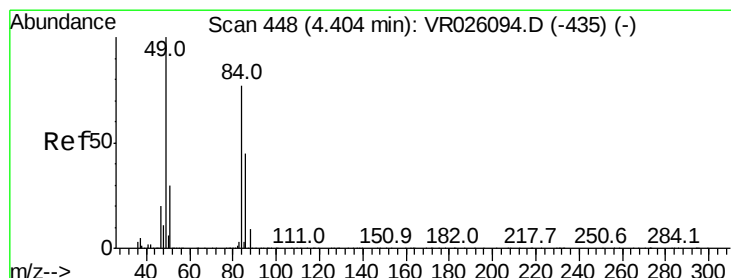
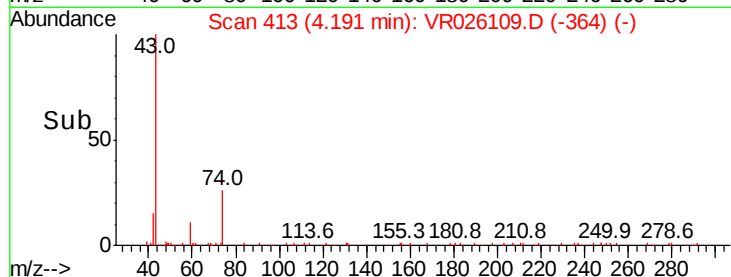
10000

5000

0

4.10 4.20 4.30

Time-->



#16

Methylene chloride

Concen: 4.865 ug/L

RT: 4.40 min Scan# 448

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

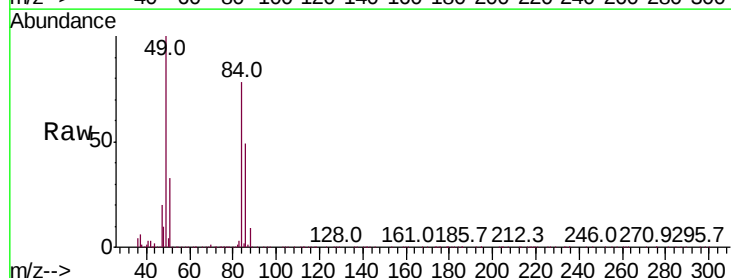
Tgt Ion: 84 Resp: 241803

Ion Ratio Lower Upper

84 100

86 62.3 43.0 79.8

49 128.4 89.1 165.5



Abundance Ion 84.05 (83.75 to 84.75): VR0

Ion 86.00 (85.70 to 86.70): VR0

Ion 49.10 (48.80 to 49.80): VR0

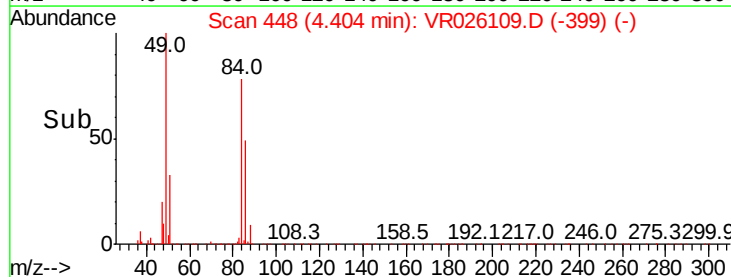
100000

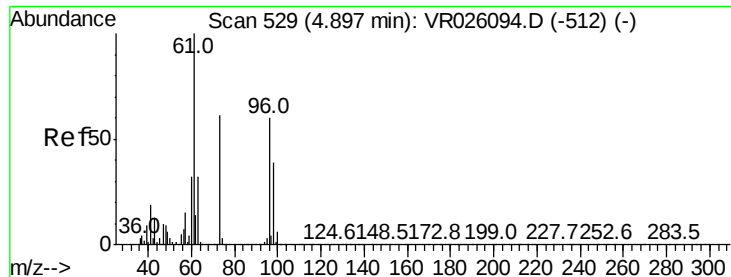
50000

0

4.30 4.40 4.50 4.60

Time-->





#17

Methvl tert-butvl Ether

Concen: 4.786 ug/L

RT: 4.89 min Scan# 528

Delta R.T. -0.01 min

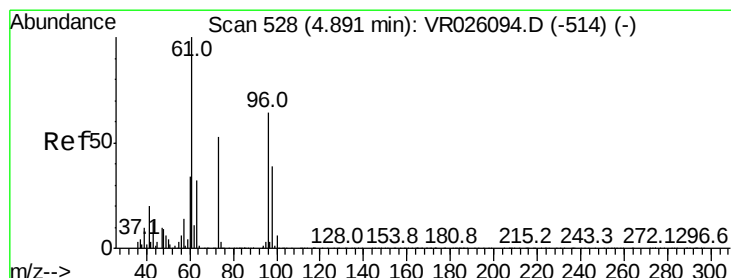
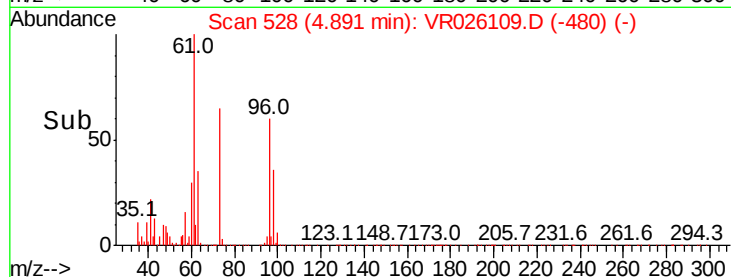
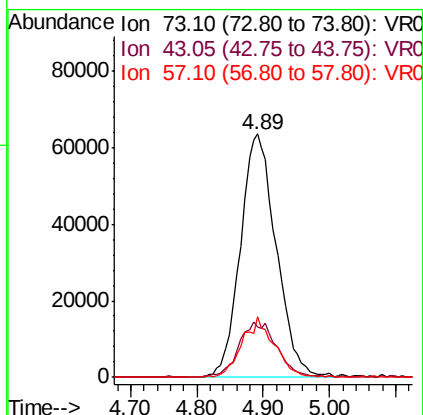
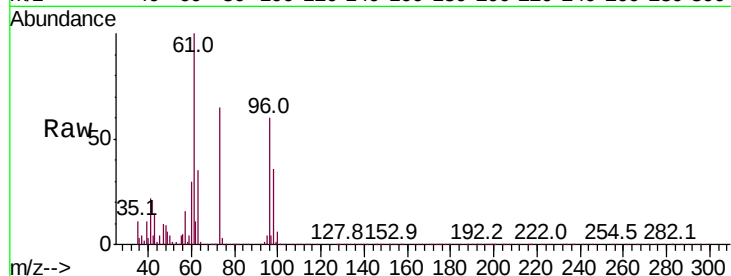
Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 73 Resp: 238156

Ion	Ratio	Lower	Upper
73	100		
43	24.4	20.1	30.1
57	22.3	19.0	28.4



#18

trans-1,2-Dichloroethene

Concen: 4.816 ug/L

RT: 4.88 min Scan# 527

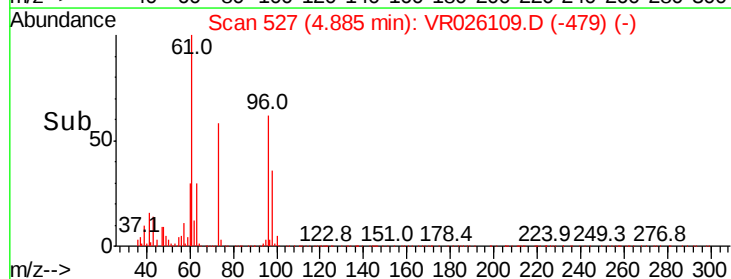
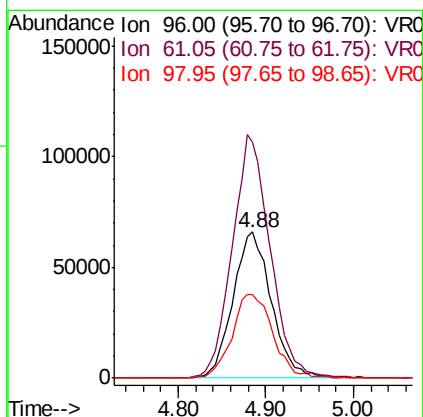
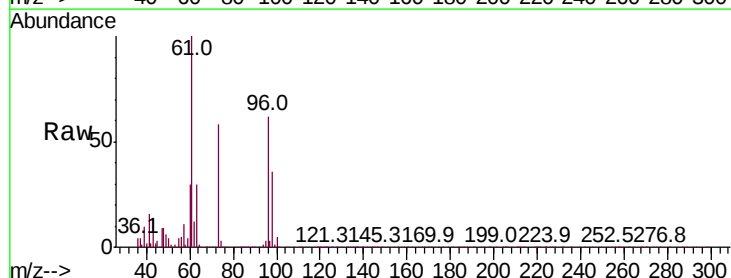
Delta R.T. -0.01 min

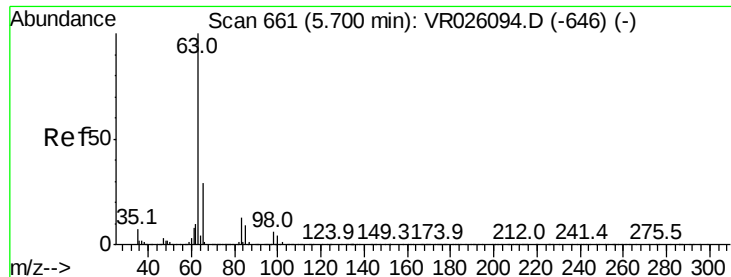
Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Tgt Ion: 96 Resp: 199615

Ion	Ratio	Lower	Upper
96	100		
61	162.1	111.4	206.8
98	57.6	41.4	77.0





#19

1,1-Dichloroethane

Concen: 4.768 ug/L

RT: 5.69 min Scan# 660

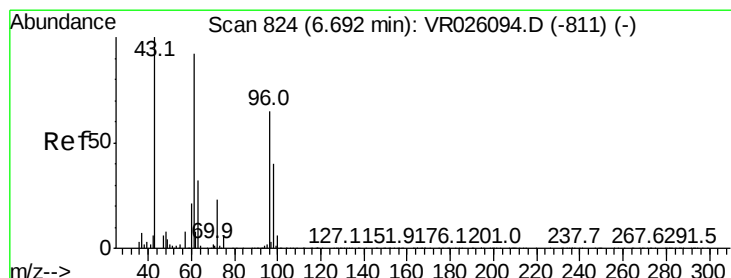
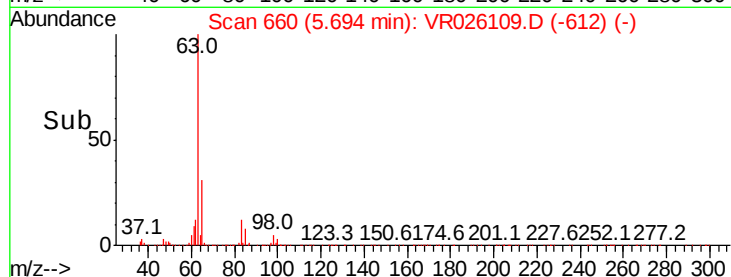
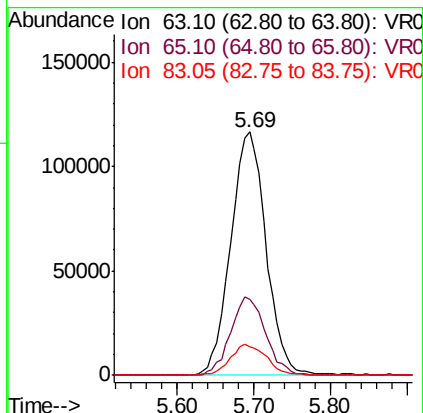
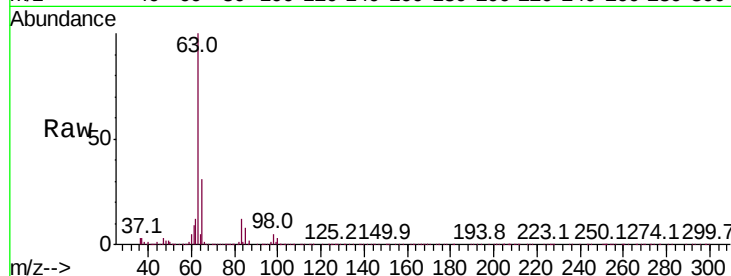
Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion:	63	Resp:	371102
Ion	Ratio	Lower	Upper
63	100		
65	31.3	21.2	39.4
83	12.0	9.2	17.2



#21

2-Butanone

Concen: 49.142 ug/L

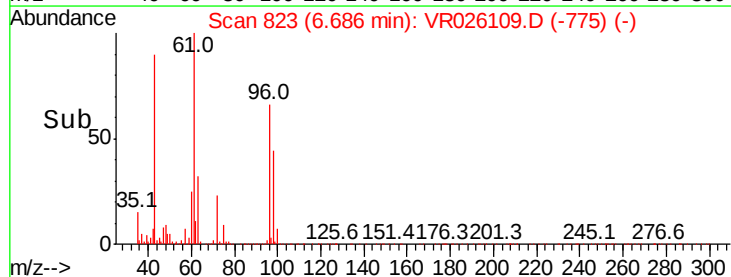
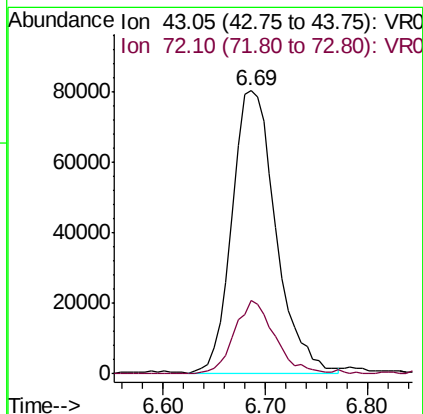
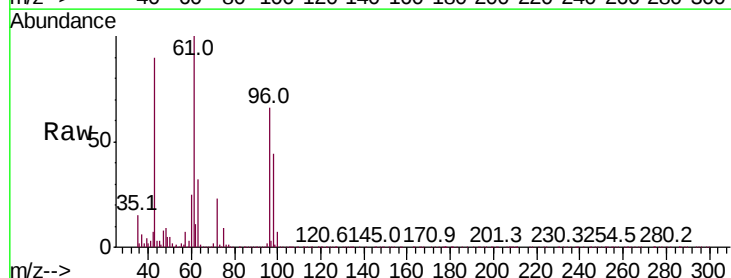
RT: 6.69 min Scan# 823

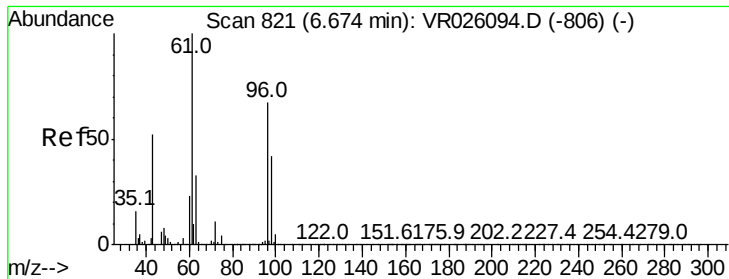
Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Tgt Ion:	43	Resp:	237358
Ion	Ratio	Lower	Upper
43	100		
72	24.0	12.3	36.8



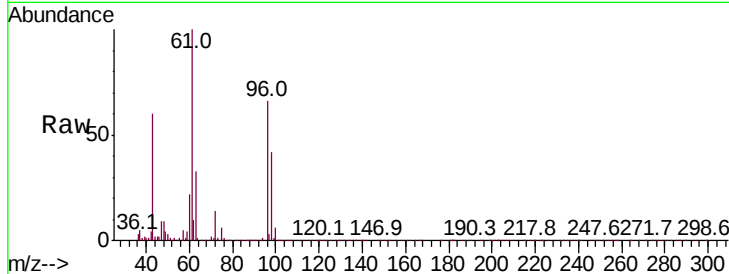


#22

cis-1,2-Dichloroethene
Concen: 5.118 ug/L
RT: 6.67 min Scan# 821
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Instrument :
MSVOA_R
ClientSampleID :

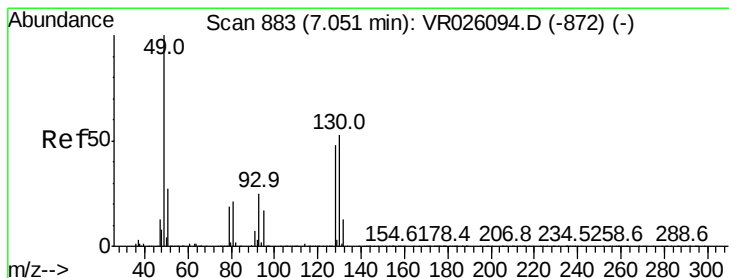
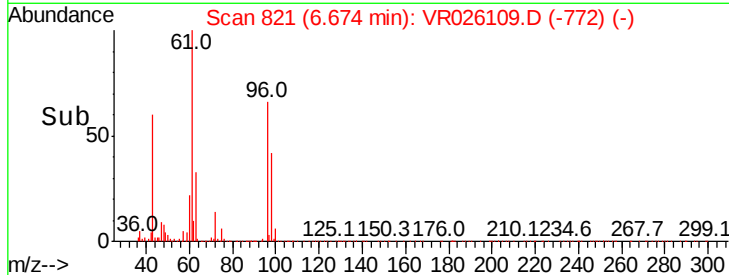
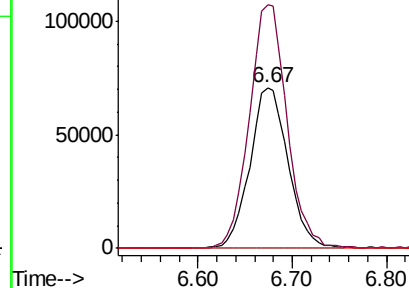
Tot Ion	Ratio	Lower	Upper
96	100		
61	151.6	101.8	189.0
68	0.1	0.1	0.3



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

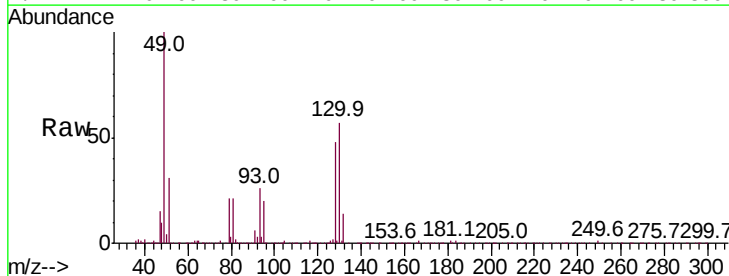
Ion 68.15 (67.85 to 68.85): VR0



#23

Bromochloromethane
Concen: 4.841 ug/L
RT: 7.05 min Scan# 883
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Tgt Ion	Ratio	Lower	Upper
128	100		
49	209.4	146.2	271.4
130	120.3	92.5	171.7
51	65.9	55.6	83.4

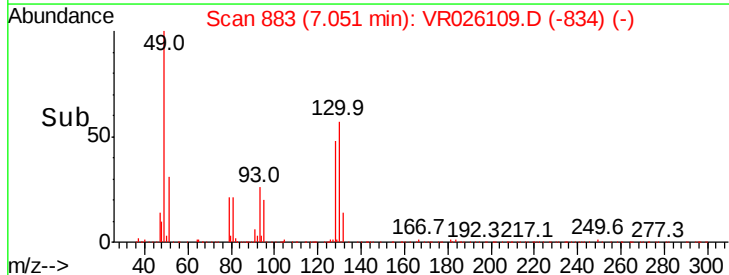
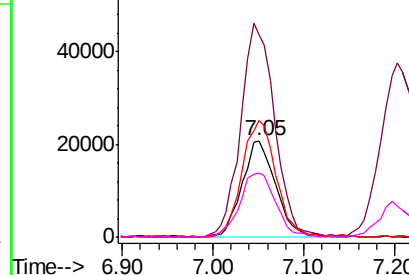


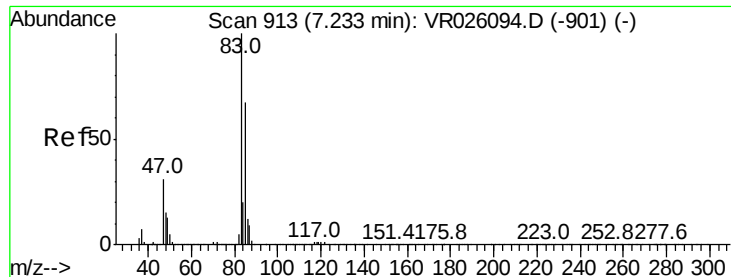
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VR0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VR0





#25

Chloroform

Concen: 4.852 ug/L

RT: 7.23 min Scan# 912

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

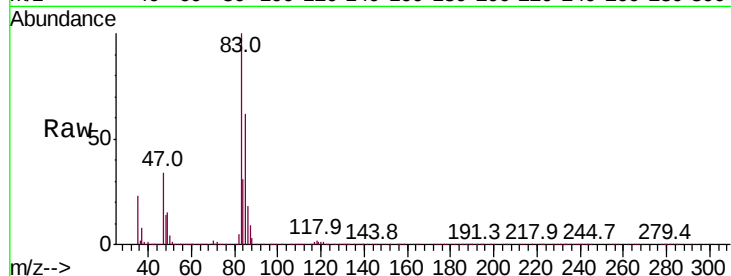
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 83 Resp: 368522

Ion Ratio Lower Upper

83 100

85 61.6 43.5 80.7



Abundance Ion 83.05 (82.75 to 83.75): VR0

Ion 85.00 (84.70 to 85.70): VR0

7.23

150000

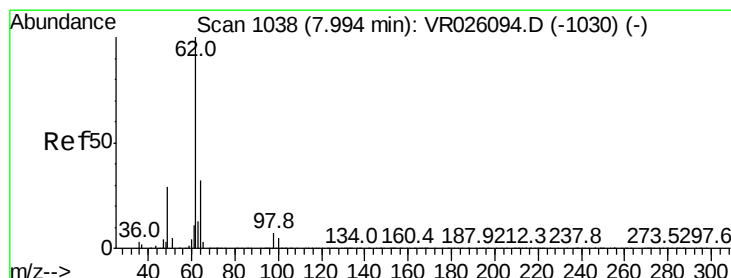
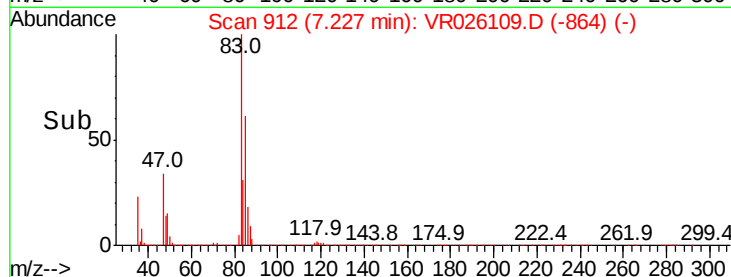
100000

50000

0

Time-->

7.10 7.20 7.30



#27

1,2-Dichloroethane

Concen: 4.875 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VR026109.D

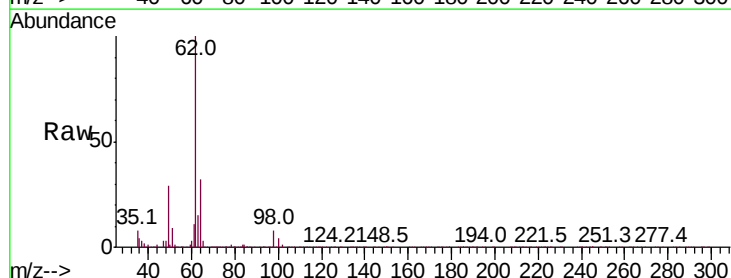
Acq: 16 Oct 2018 19:52

Tgt Ion: 62 Resp: 181268

Ion Ratio Lower Upper

62 100

98 7.7 5.6 8.4



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 98.05 (97.75 to 98.75): VR0

7.99

100000

80000

60000

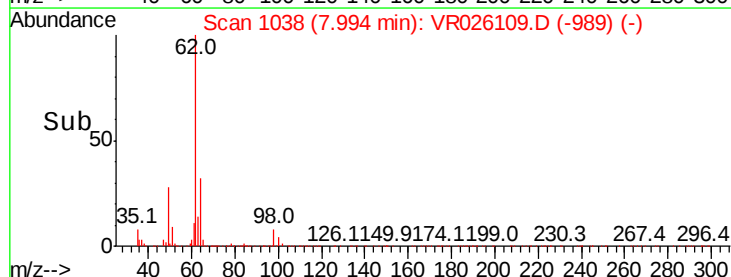
40000

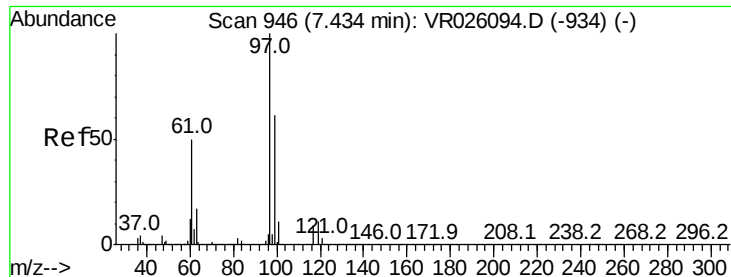
20000

0

Time-->

7.90 7.95 8.00 8.05





#29

1,1,1-Trichloroethane

Concen: 4.735 ug/L

RT: 7.43 min Scan# 945

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :
MSVOA_R
ClientSampleId :

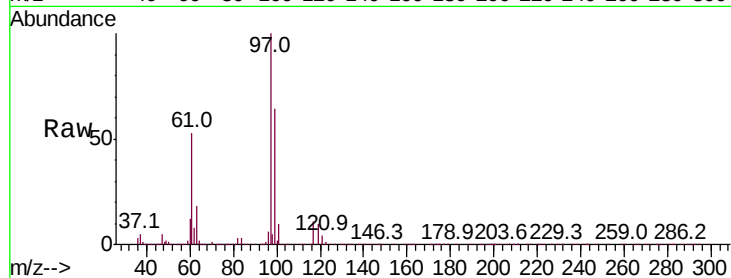
Tot Ion: 97 Resp: 316531

Ion Ratio Lower Upper

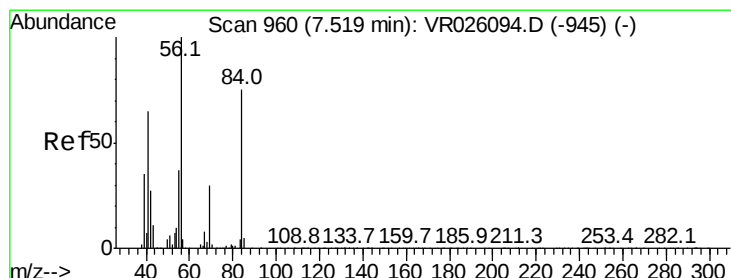
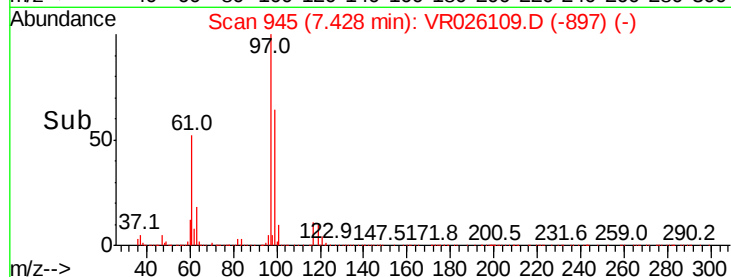
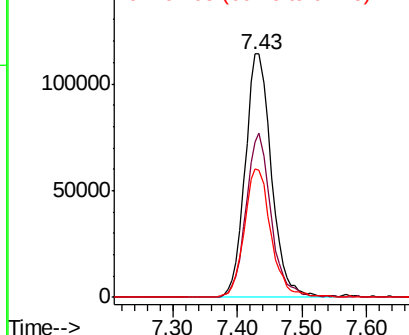
97 100

99 64.2 51.1 76.7

61 53.7 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



#30

Cyclohexane

Concen: 5.147 ug/L

RT: 7.51 min Scan# 959

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

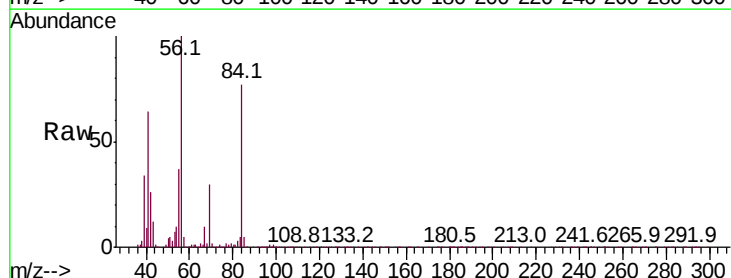
Tgt Ion: 56 Resp: 345409

Ion Ratio Lower Upper

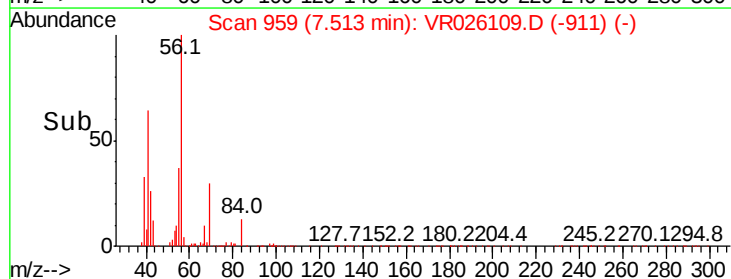
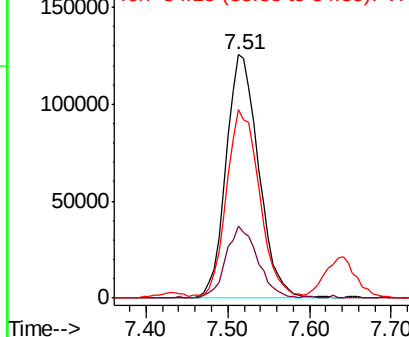
56 100

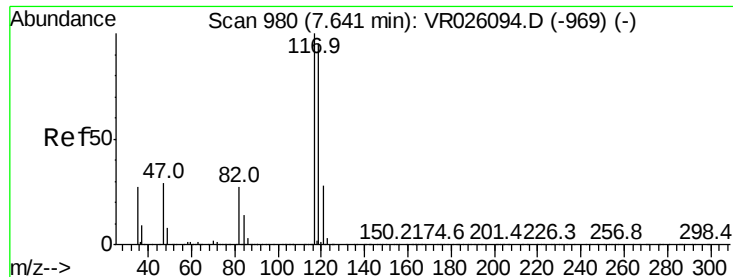
69 28.4 23.8 35.8

84 78.2 62.2 93.4



Abundance Ion 56.10 (55.80 to 56.80): VR0
Ion 69.15 (68.85 to 69.85): VR0
Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.710 ug/L

RT: 7.63 min Scan# 979

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

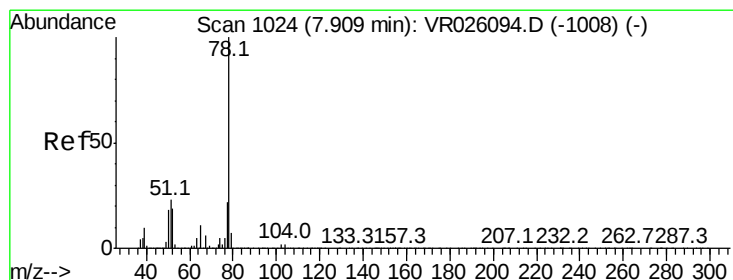
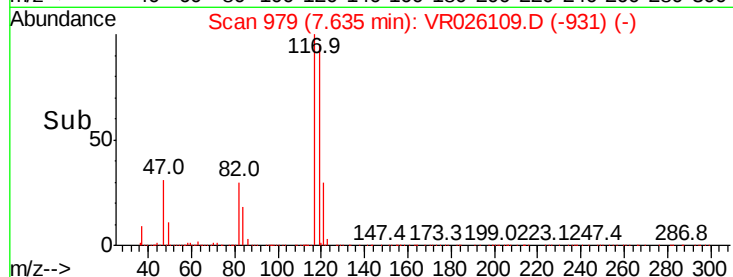
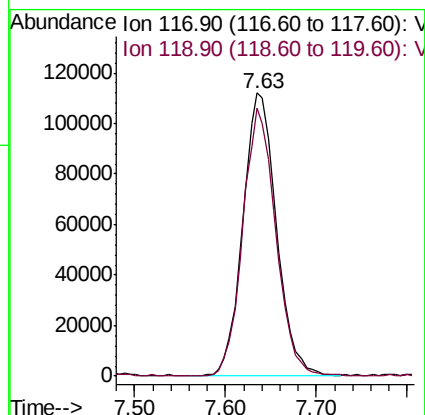
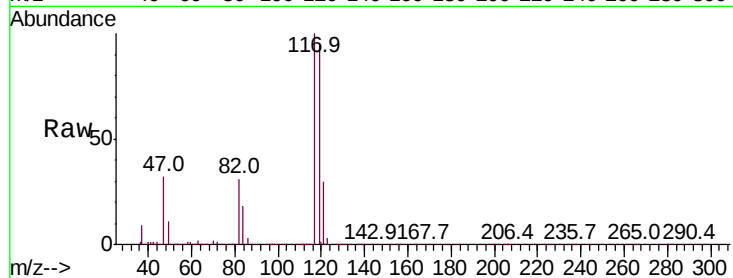
ClientSampleId :

Tot Ion:117 Resp: 286284

Ion Ratio Lower Upper

117 100

119 93.0 74.2 111.2



#33

Benzene

Concen: 4.871 ug/L

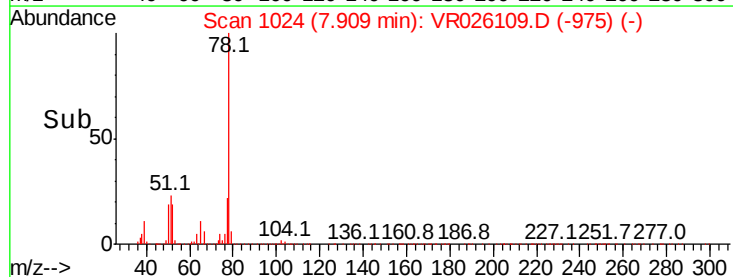
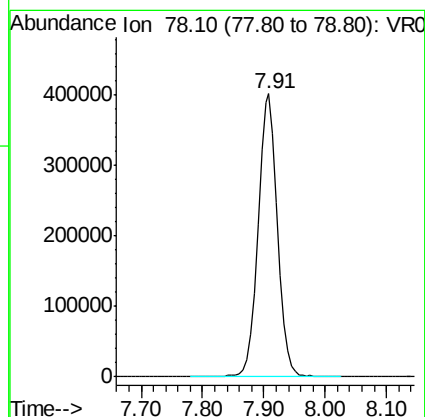
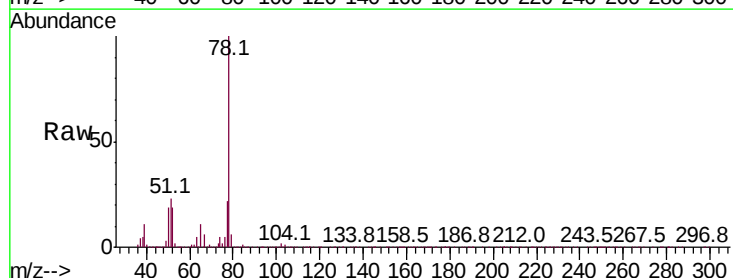
RT: 7.91 min Scan# 1024

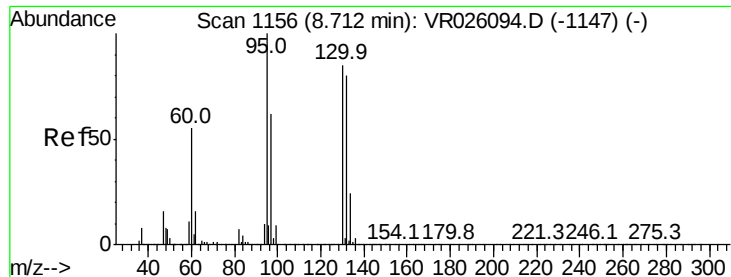
Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Tgt Ion: 78 Resp: 894134

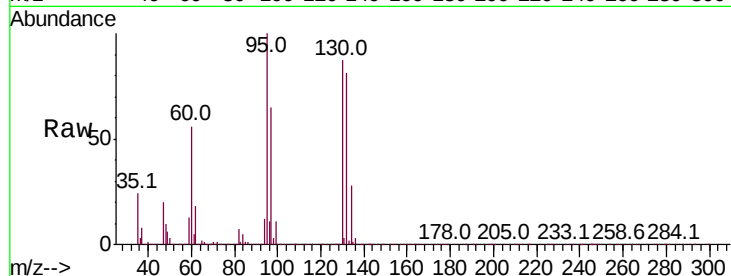




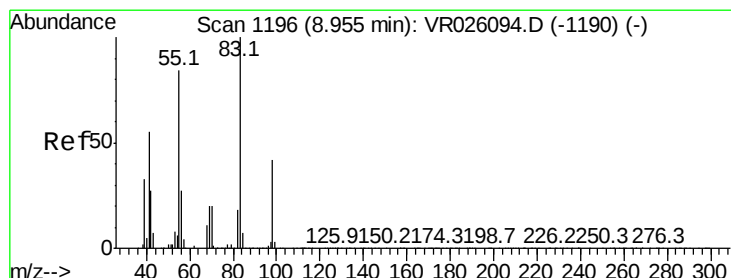
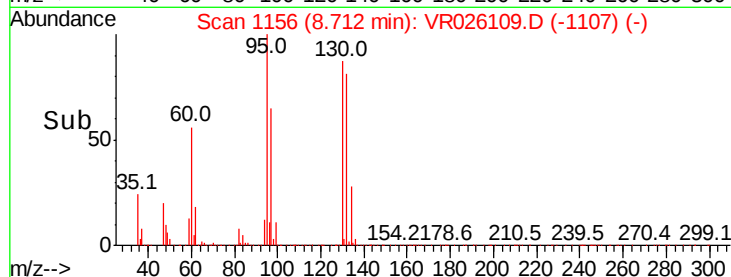
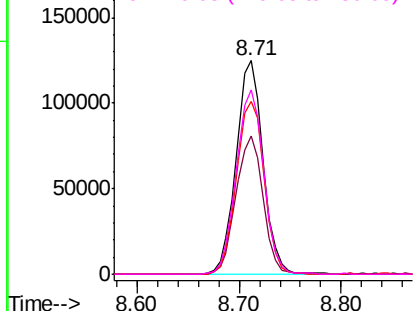
#34
 Trichloroethene
 Concen: 4.816 ug/L
 RT: 8.71 min Scan# 1156
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Instrument :
 MSVOA_R
 ClientSampleId :

Tot Ion:	95	Resp:	226284
Ion	Ratio	Lower	Upper
95	100		
97	64.7	45.7	84.9
132	81.1	58.3	108.3
130	86.6	64.0	119.0

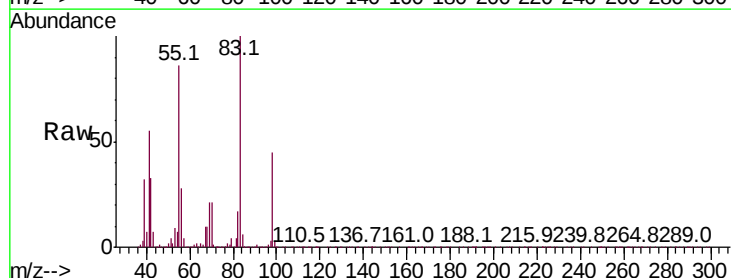


Abundance Ion 95.00 (94.70 to 95.70): VR0
 Ion 96.95 (96.65 to 97.65): VR0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

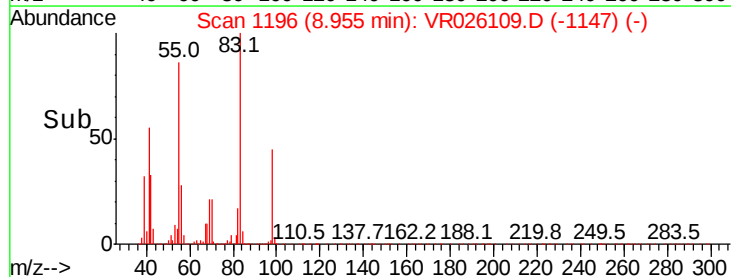
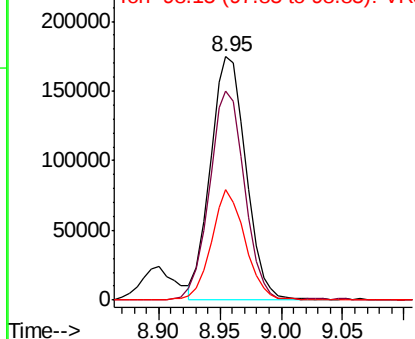


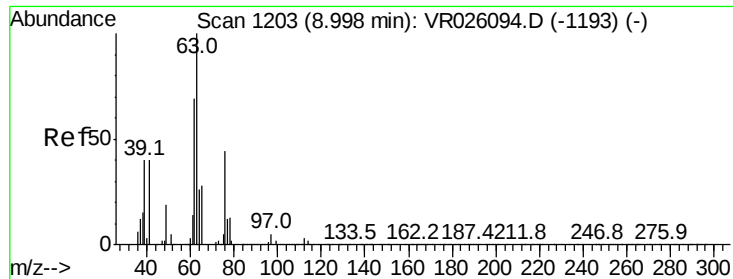
#35
 Methylcyclohexane
 Concen: 5.005 ug/L
 RT: 8.95 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Tgt Ion:	83	Resp:	350100
Ion	Ratio	Lower	Upper
83	100		
55	85.2	66.8	100.2
98	43.2	35.2	52.8



Abundance Ion 83.15 (82.85 to 83.85): VR0
 Ion 55.10 (54.80 to 55.80): VR0
 Ion 98.15 (97.85 to 98.85): VR0

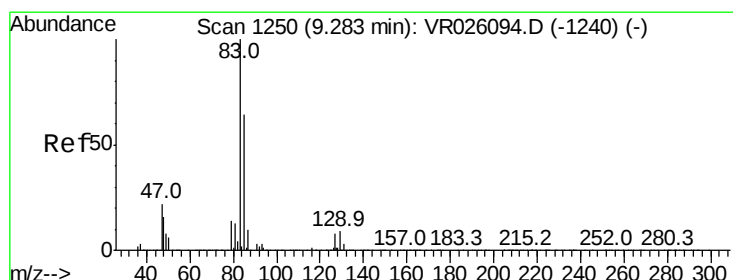
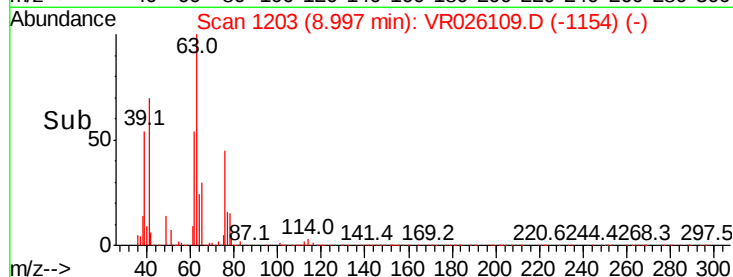
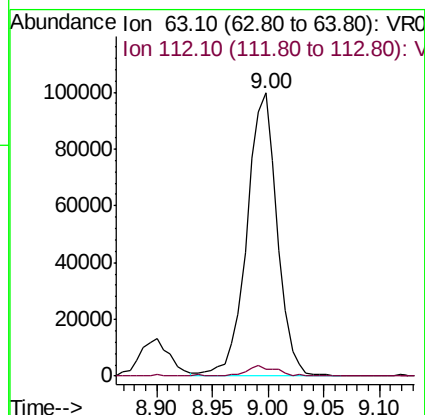
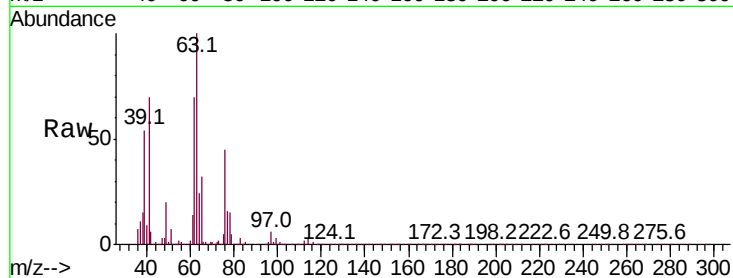




#37
 1,2-Dichloropropane
 Concen: 4.855 ug/L
 RT: 9.00 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

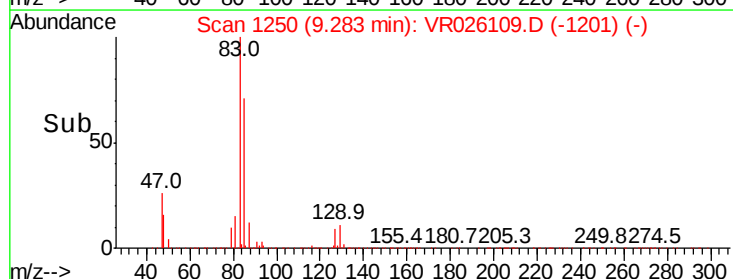
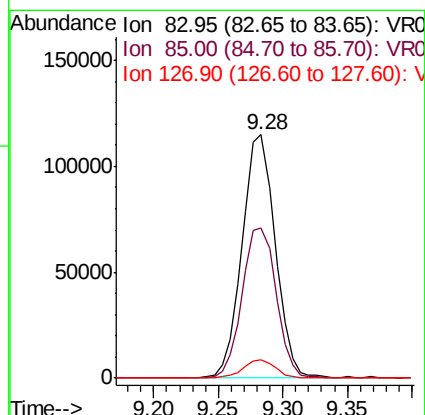
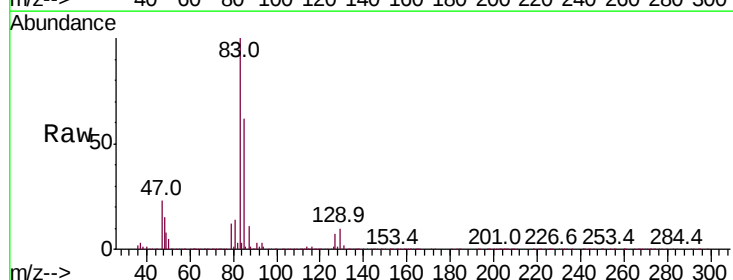
Instrument :
 MSVOA_R
 ClientSampleId :

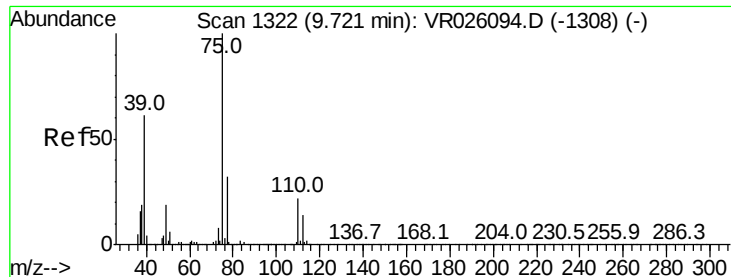
Tot Ion: 63 Resp: 188017
 Ion Ratio Lower Upper
 63 100
 112 3.6 2.7 4.1



#38
 Bromodichloromethane
 Concen: 4.890 ug/L
 RT: 9.28 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Tgt Ion: 83 Resp: 203686
 Ion Ratio Lower Upper
 83 100
 85 61.6 43.5 80.7
 127 7.4 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 4.942 ug/L

RT: 9.72 min Scan# 1322

Delta R.T. -0.00 min

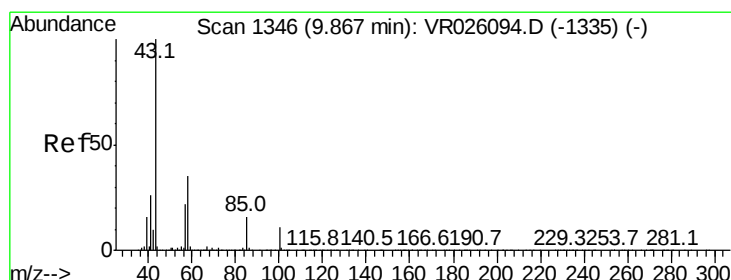
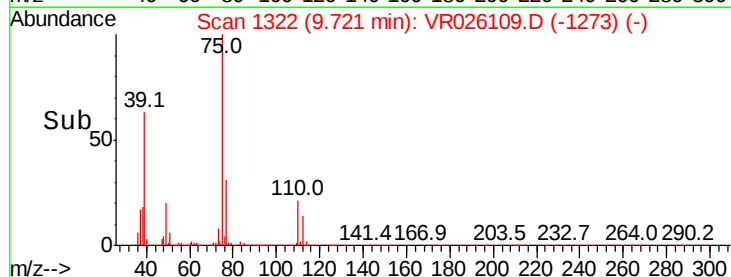
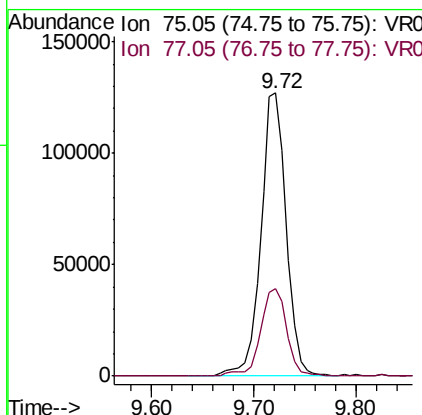
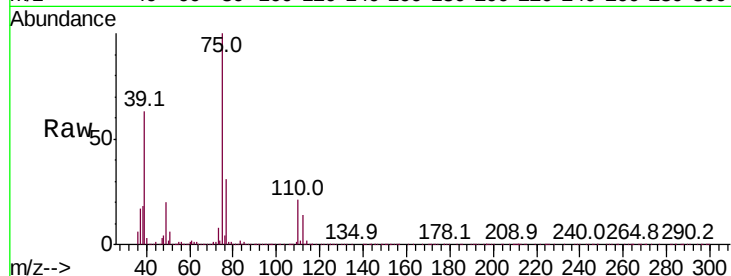
Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 75 Resp: 219077

Ion	Ratio	Lower	Upper
75	100		
77	31.1	22.7	42.1



#40

4-Methyl-2-pentanone

Concen: 53.768 ug/L

RT: 9.87 min Scan# 1346

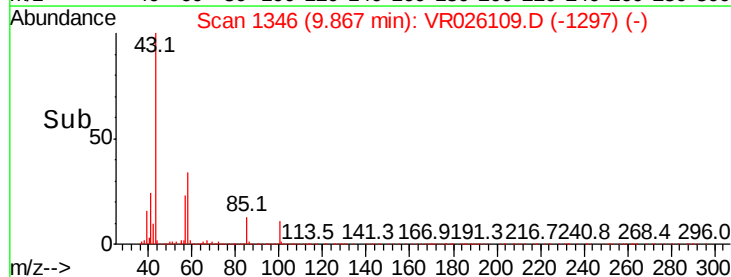
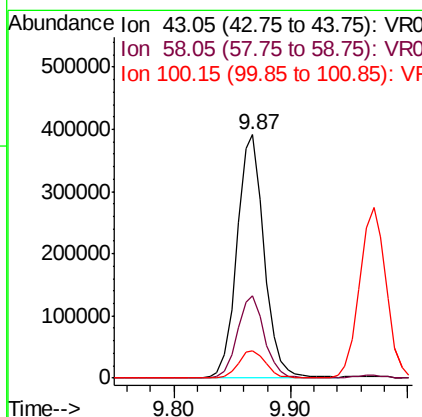
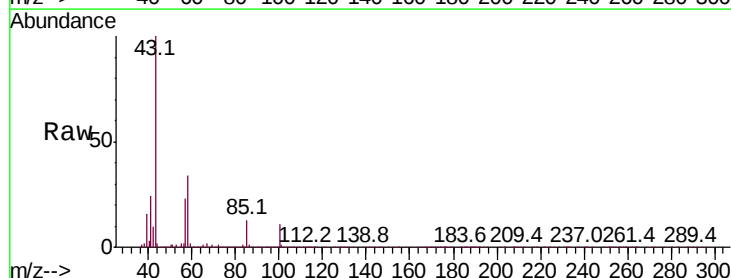
Delta R.T. -0.00 min

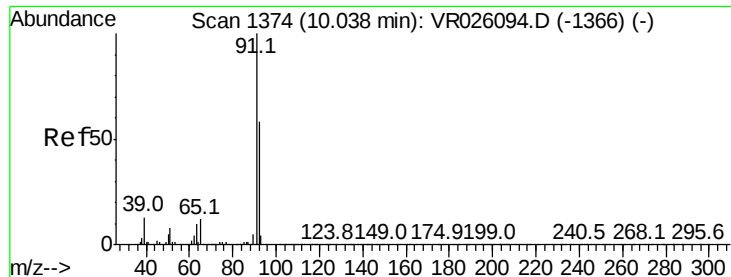
Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Tgt Ion: 43 Resp: 635944

Ion	Ratio	Lower	Upper
43	100		
58	33.8	28.1	42.1
100	11.4	9.3	13.9





#42

Toluene

Concen: 5.046 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. -0.01 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

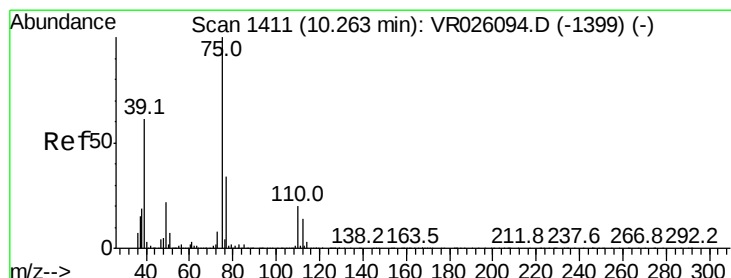
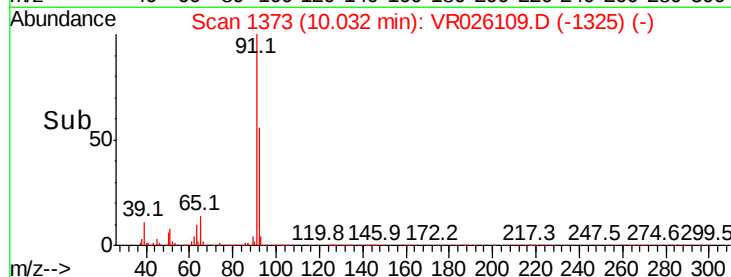
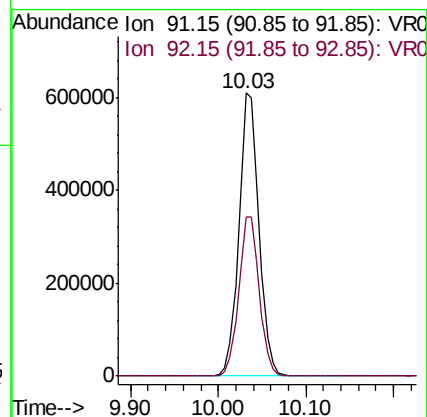
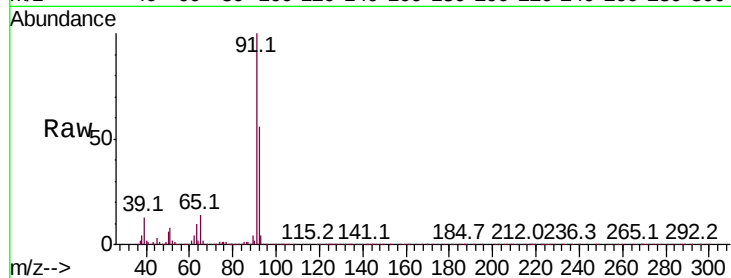
ClientSampleId :

Tot Ion: 91 Resp: 977647

Ion Ratio Lower Upper

91 100

92 56.4 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 4.787 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR026109.D

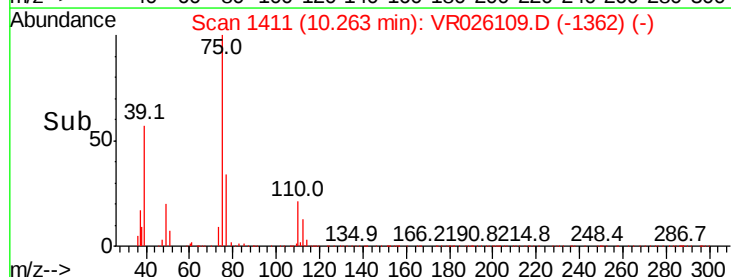
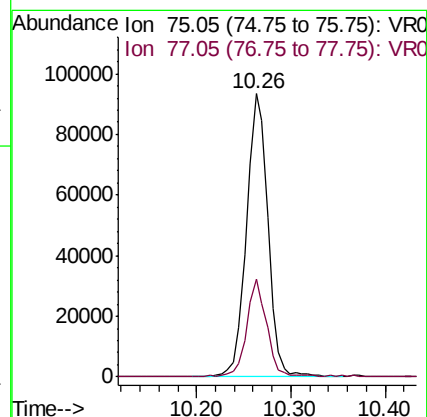
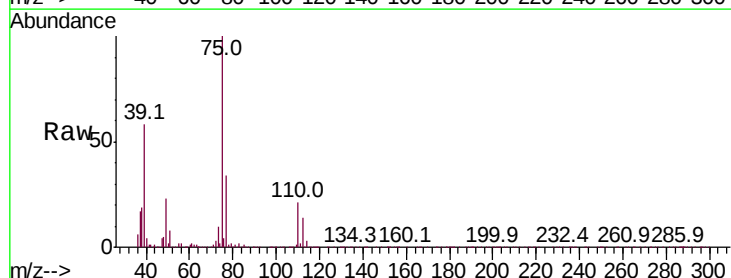
Acq: 16 Oct 2018 19:52

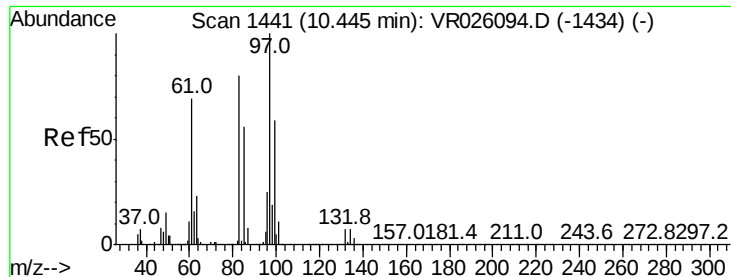
Tgt Ion: 75 Resp: 148238

Ion Ratio Lower Upper

75 100

77 34.3 24.1 44.7

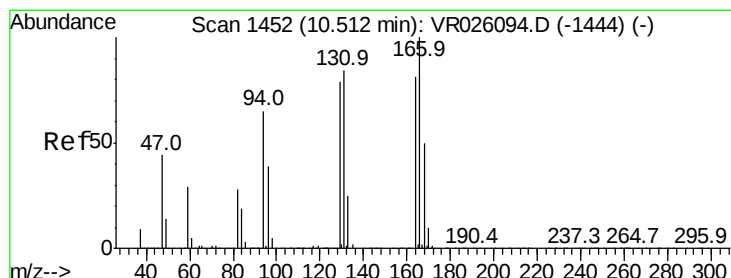
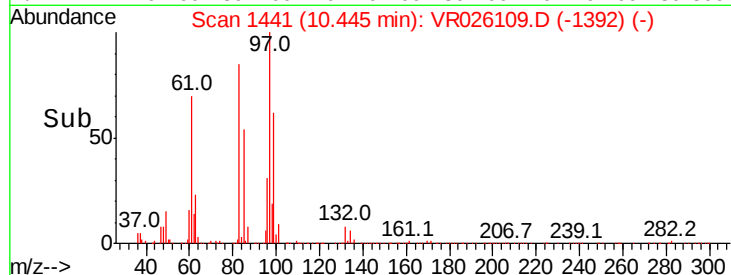
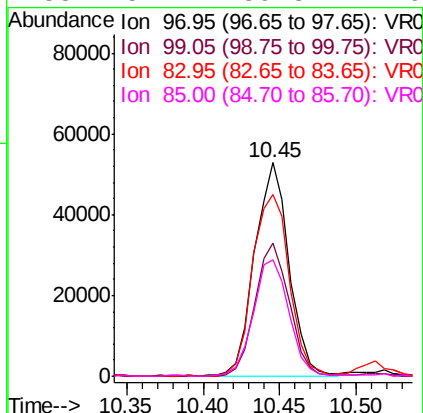
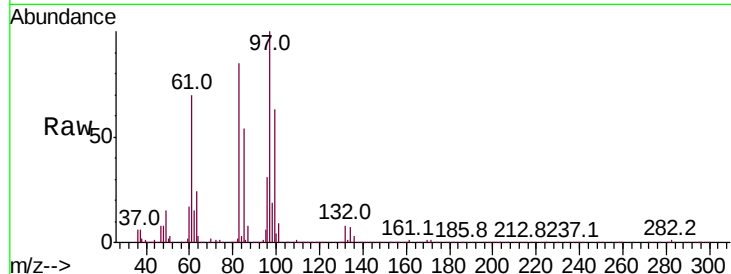




#45
 1,1,2-Trichloroethane
 Concen: 5.041 ug/L
 RT: 10.45 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

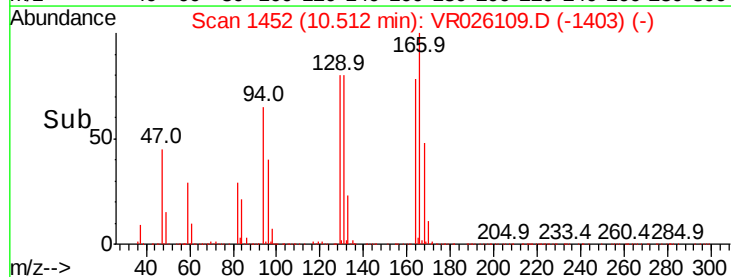
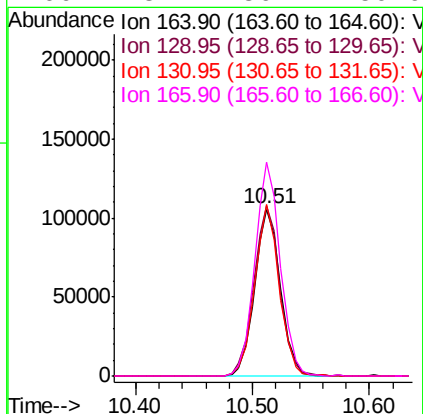
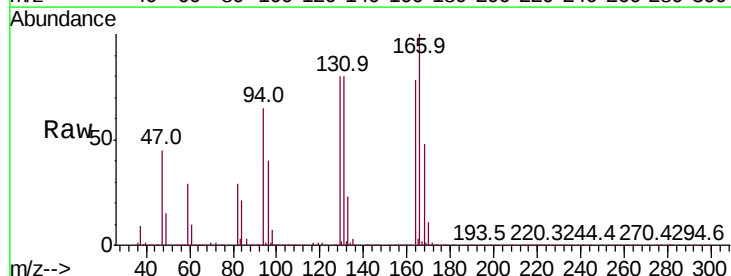
Instrument :
 MSVOA_R
 ClientSampleId :

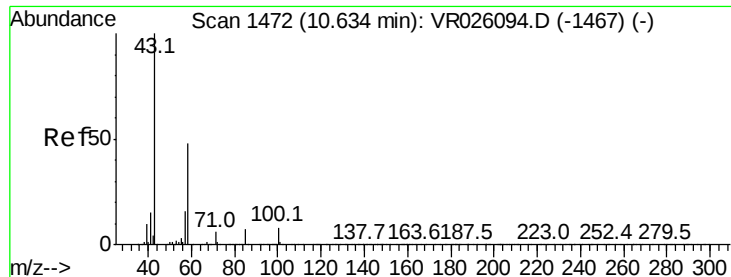
Tot Ion:	97	Resp:	82357
Ion	Ratio	Lower	Upper
97	100		
99	62.6	42.8	79.4
83	85.0	61.9	114.9
85	54.4	39.3	72.9



#47
 Tetrachloroethene
 Concen: 4.797 ug/L
 RT: 10.51 min Scan# 1452
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Tgt Ion:	164	Resp:	160942
Ion	Ratio	Lower	Upper
164	100		
129	102.0	70.3	130.5
131	103.0	67.3	125.1
166	128.2	86.1	159.9

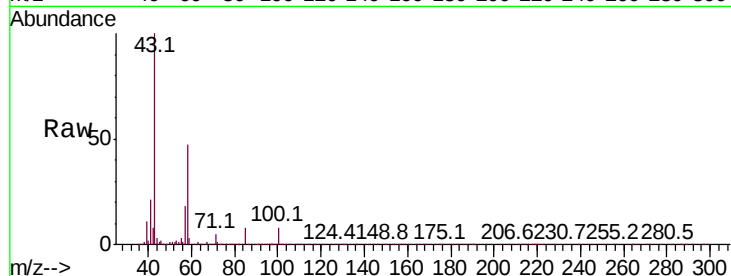




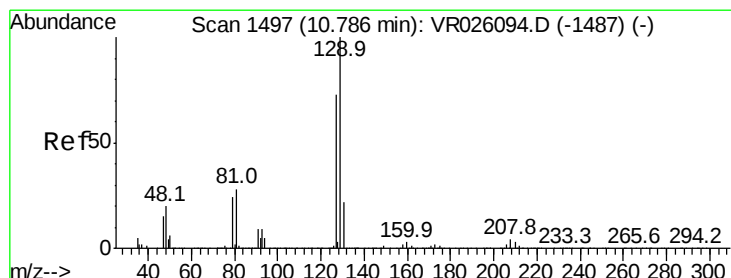
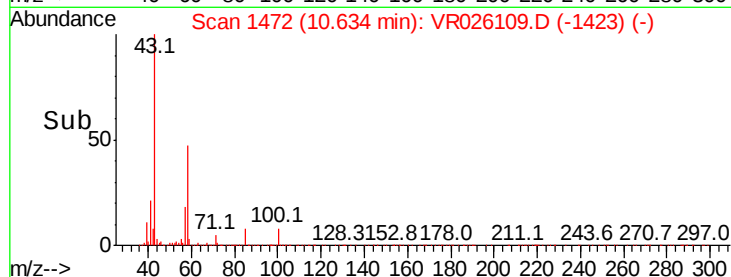
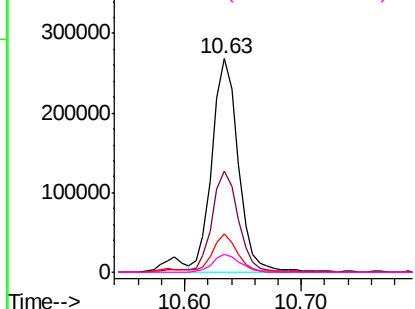
#48
2-Hexanone
Concen: 53.979 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion:	43	Resp:	416989
Ion	Ratio	Lower	Upper
43	100		
58	48.9	39.6	59.4
57	16.6	14.0	21.0
100	8.7	7.0	10.6

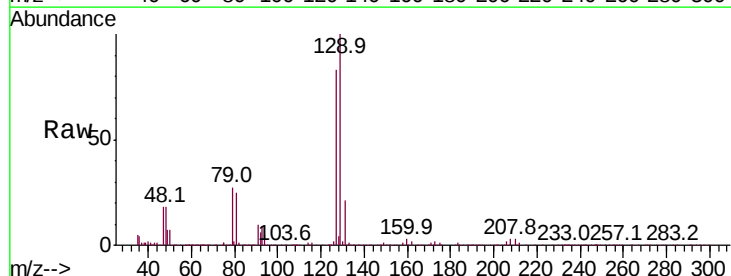


Abundance Ion 43.05 (42.75 to 43.75): VR0
Ion 58.05 (57.75 to 58.75): VR0
Ion 57.20 (56.90 to 57.90): VR0
Ion 100.15 (99.85 to 100.85): VR0

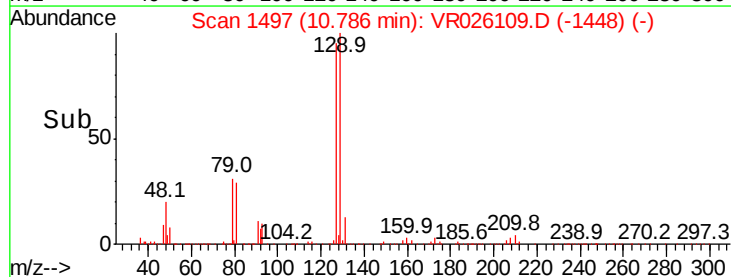
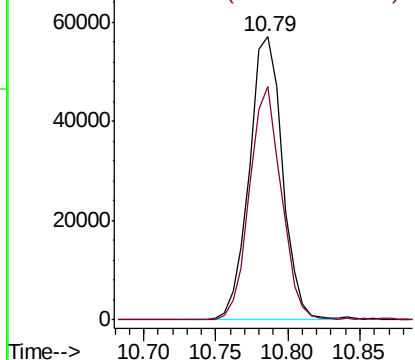


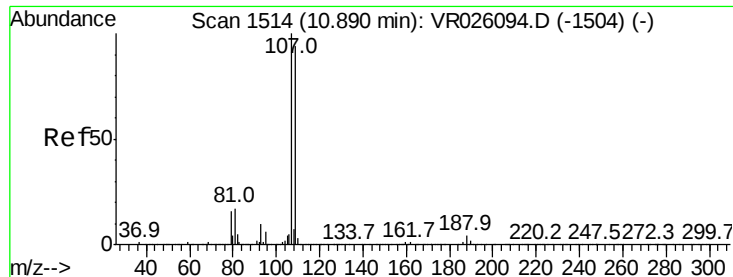
#49
Dibromochloromethane
Concen: 4.928 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Tgt Ion:	129	Resp:	90589
Ion	Ratio	Lower	Upper
129	100		
127	82.6	55.0	102.2



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

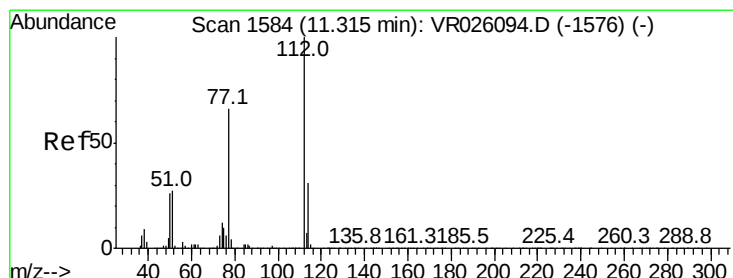
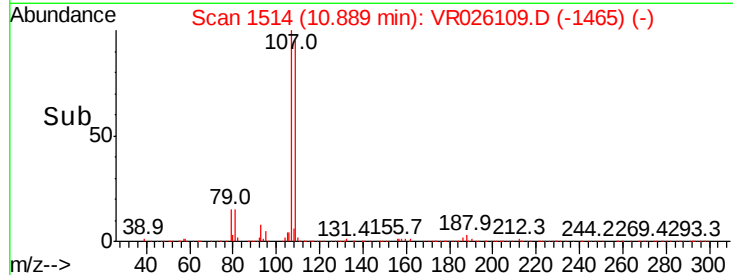
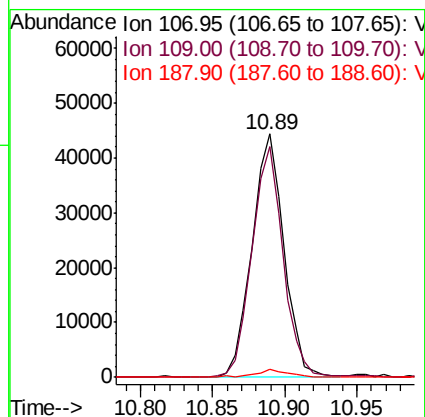
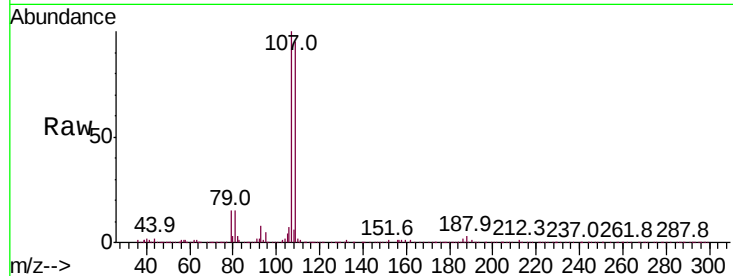




#50
1,2-Dibromoethane
Concen: 4.810 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

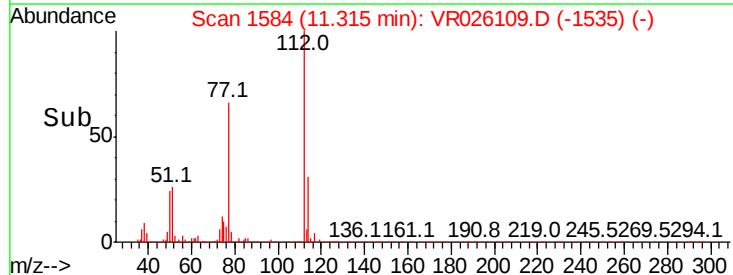
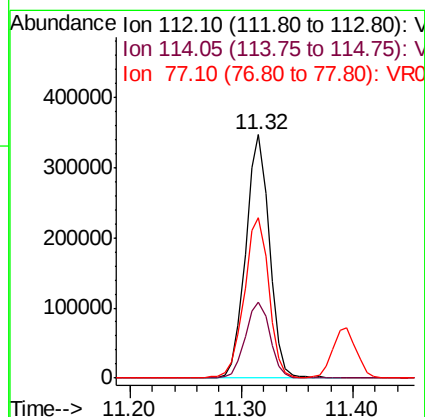
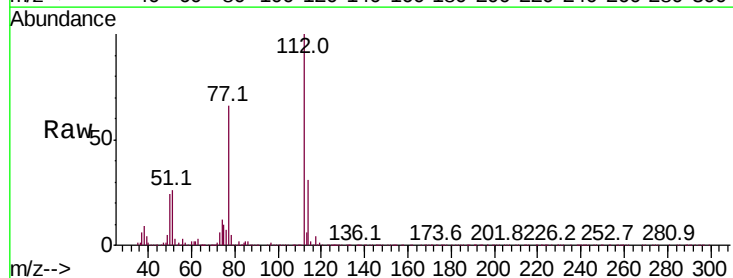
Instrument :
MSVOA_R
ClientSampleId :

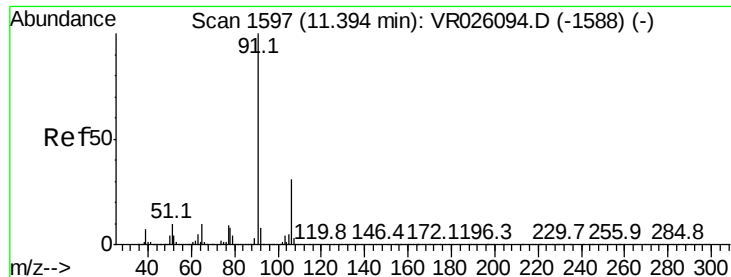
Tot Ion:	107	Resp:	67889
Ion	Ratio	Lower	Upper
107	100		
109	94.6	58.7	109.1
188	3.1	2.9	4.3



#51
Chlorobenzene
Concen: 4.770 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Tgt Ion:	112	Resp:	511594
Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.8	42.4
77	66.1	51.5	77.3





#52

Ethylbenzene

Concen: 5.089 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

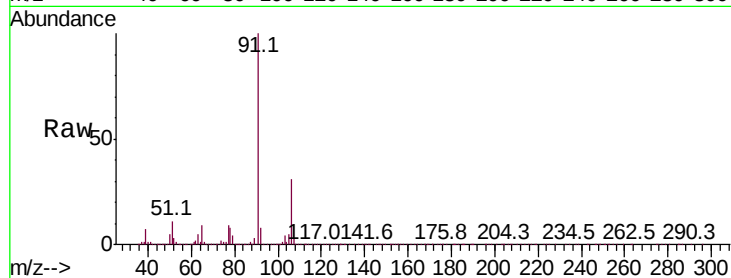
ClientSampled :

Tot Ion: 91 Resp: 1133747

Ion Ratio Lower Upper

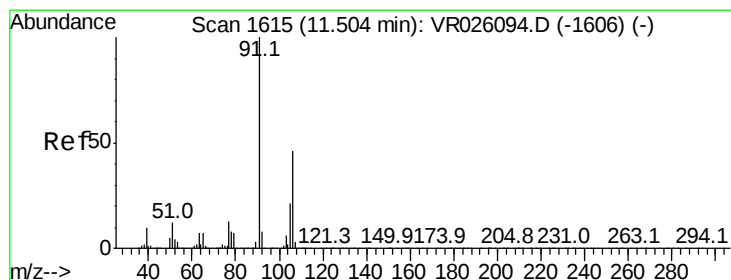
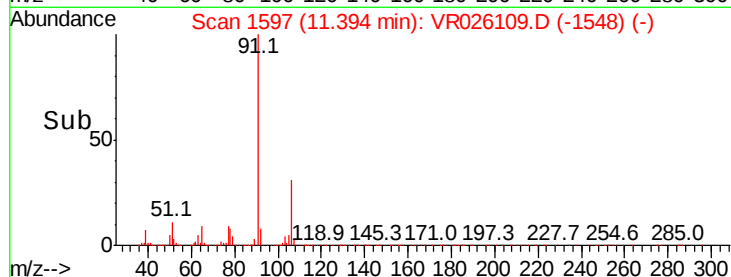
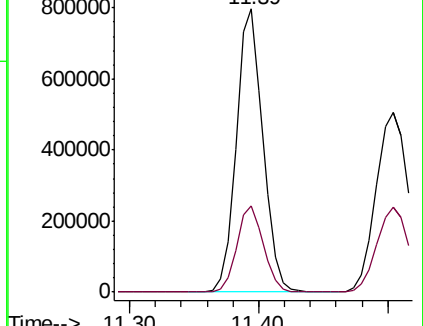
91 100

106 30.7 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-Xylene

Concen: 5.026 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR026109.D

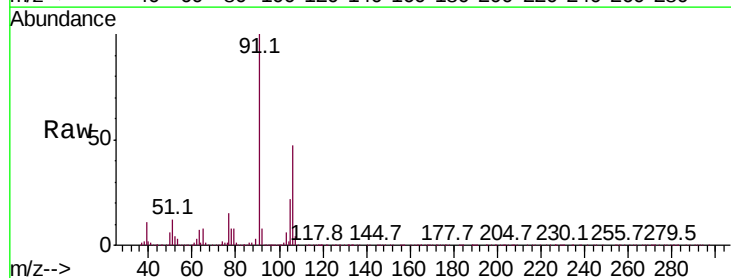
Acq: 16 Oct 2018 19:52

Tgt Ion: 106 Resp: 407988

Ion Ratio Lower Upper

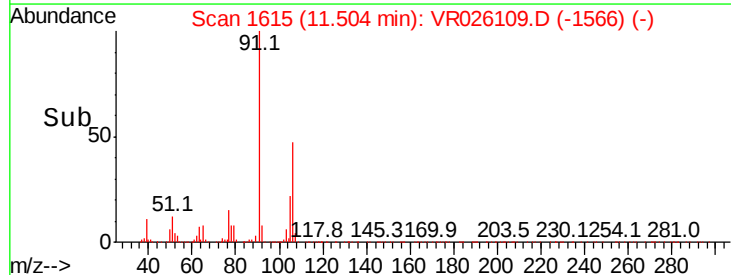
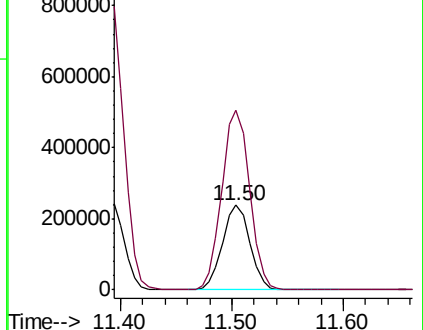
106 100

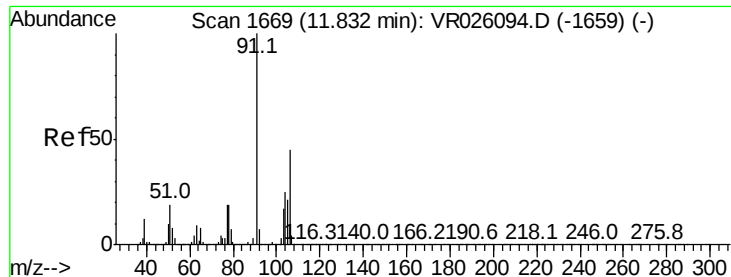
91 211.1 145.3 269.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0

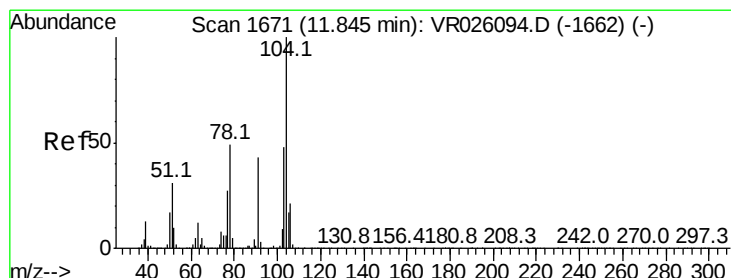
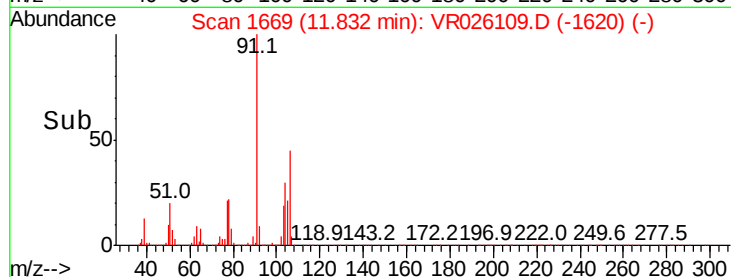
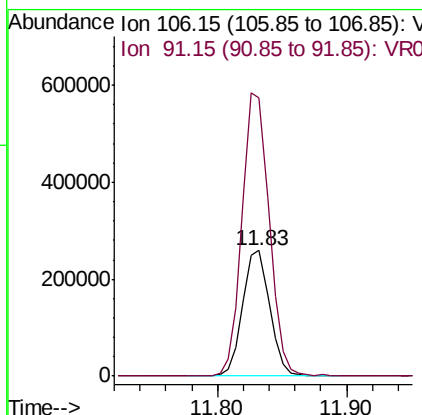
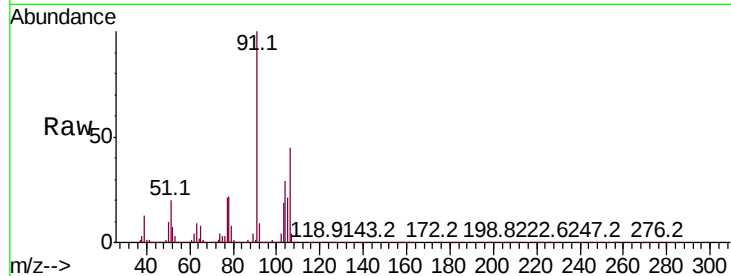




#54
o-Xylene
Concen: 5.057 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

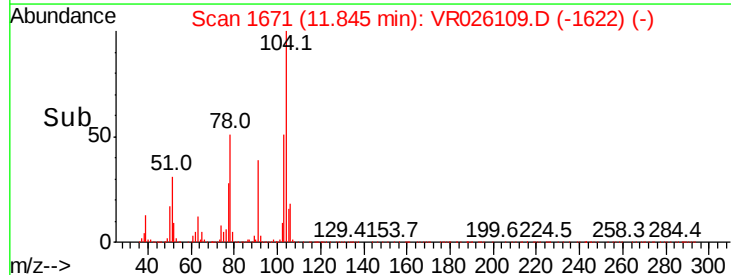
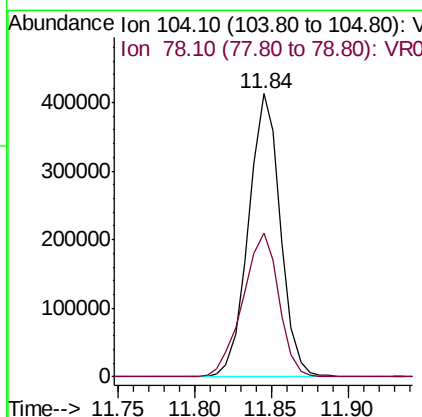
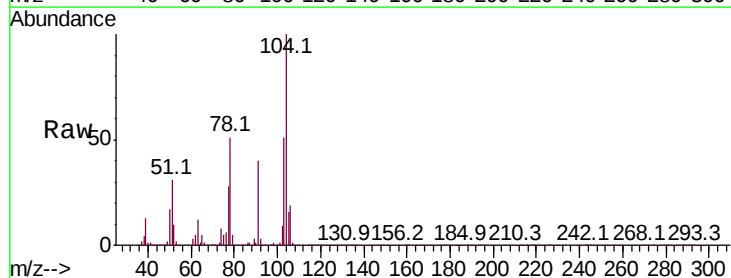
Instrument :
MSVOA_R
ClientSampleId :

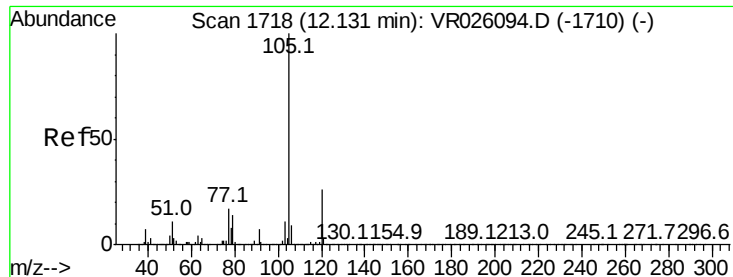
Tot Ion:106 Resp: 376317
Ion Ratio Lower Upper
106 100
91 221.1 155.8 289.3



#55
Styrene
Concen: 5.202 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VR026109.D
Acq: 16 Oct 2018 19:52

Tgt Ion:104 Resp: 595896
Ion Ratio Lower Upper
104 100
78 51.0 34.7 64.5





#56

Isopropylbenzene

Concen: 5.236 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

ClientSampled :

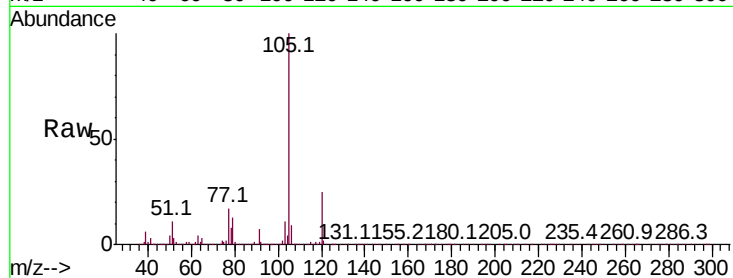
Tot Ion:105 Resp: 1082299

Ion Ratio Lower Upper

105 100

120 25.7 21.0 31.4

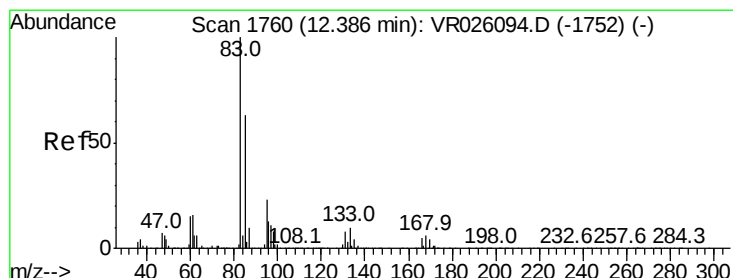
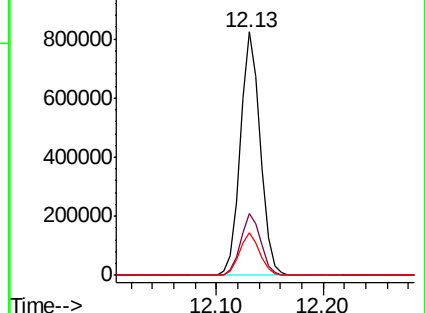
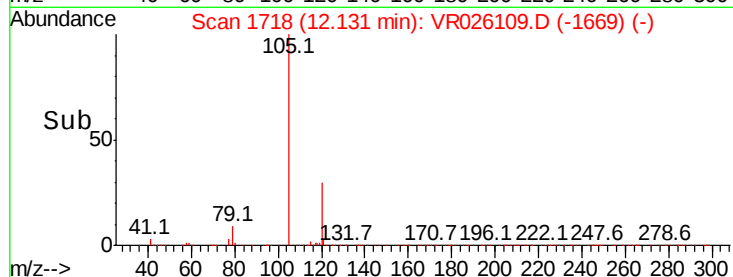
77 17.7 14.6 21.8



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): VR0



#58

1,1,2,2-Tetrachloroethane

Concen: 4.926 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

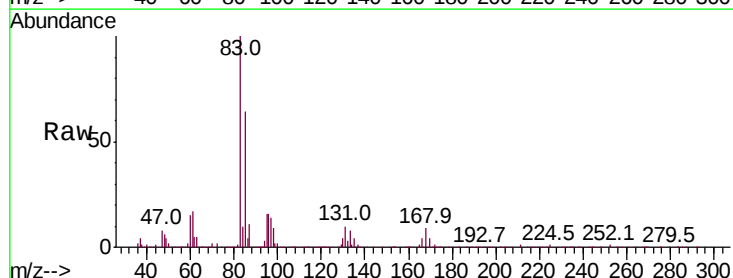
Tgt Ion: 83 Resp: 81783

Ion Ratio Lower Upper

83 100

85 64.0 44.0 81.8

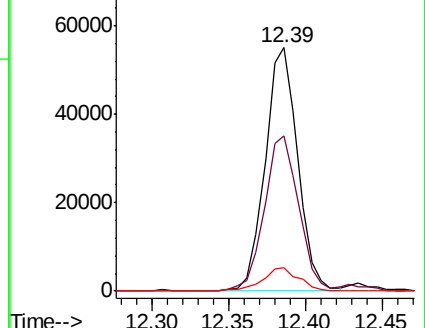
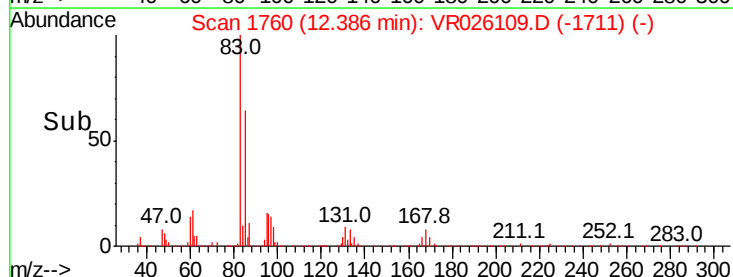
131 9.5 8.0 12.0

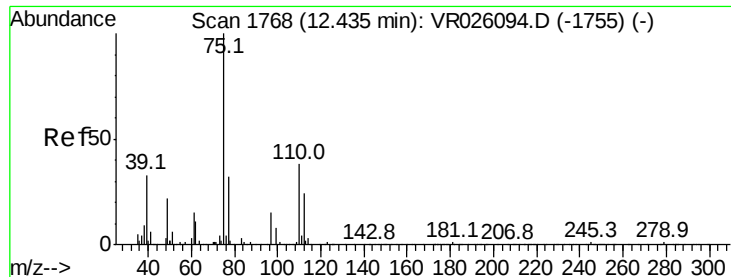


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.257 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

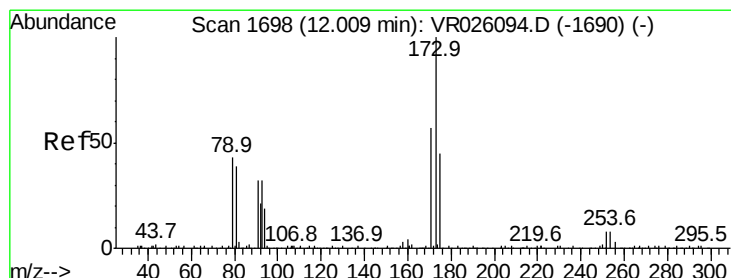
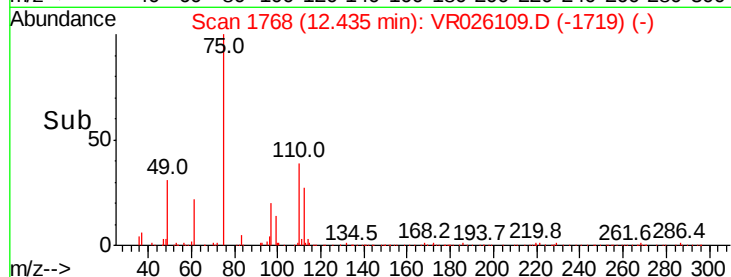
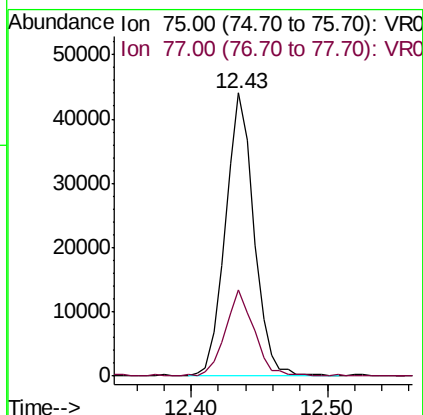
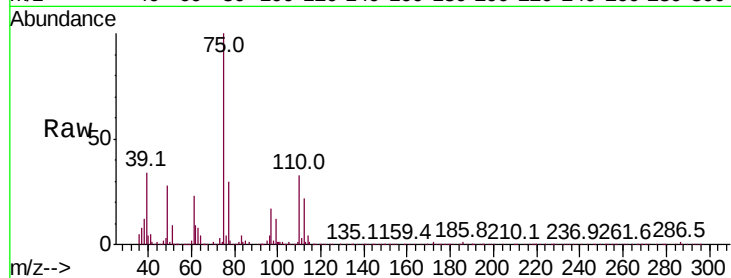
ClientSampled :

Tot Ion: 75 Resp: 64083

Ion Ratio Lower Upper

75 100

77 30.8 26.2 39.2



#61

Bromoform

Concen: 4.527 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

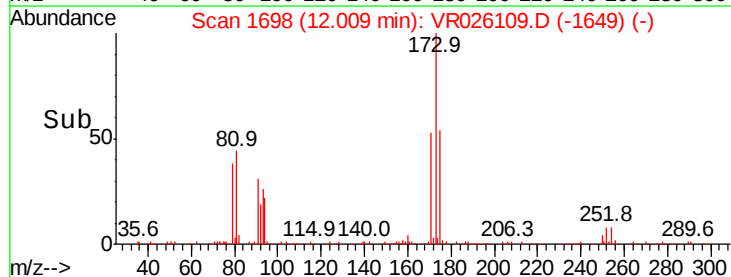
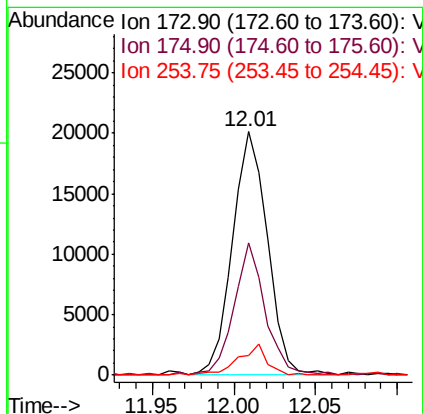
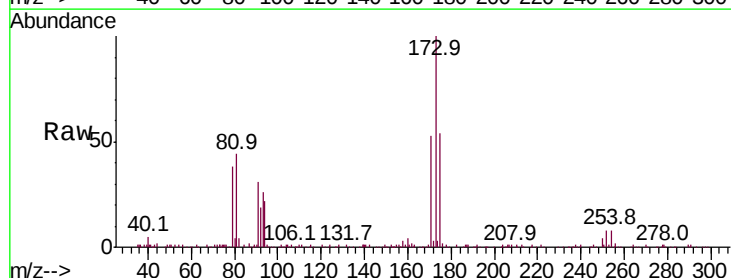
Tgt Ion: 173 Resp: 30125

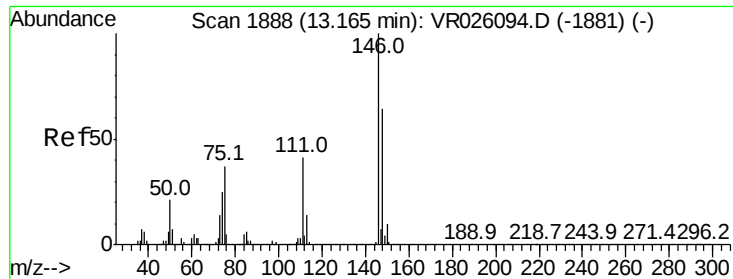
Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.4

254 10.1 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 4.743 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR026109.D

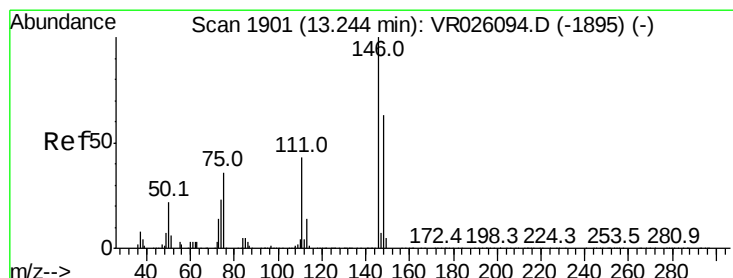
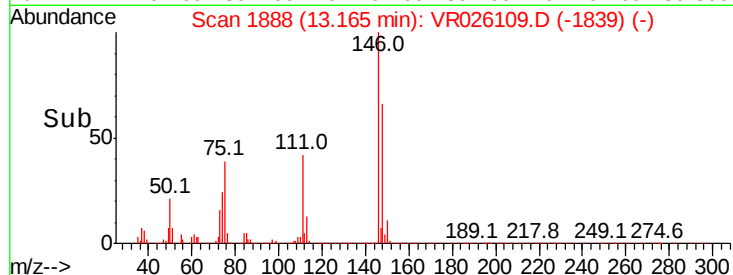
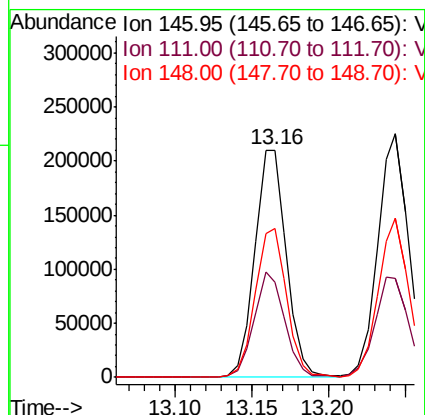
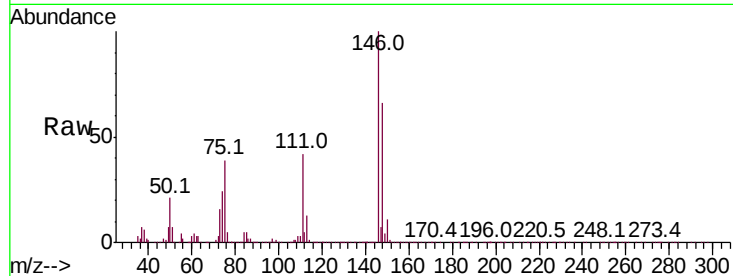
Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

ClientSampled :

Tot Ion:	146	Resp:	301631
Ion	Ratio	Lower	Upper
146	100		
111	41.8	32.1	59.7
148	65.8	43.8	81.3



#63

1,4-Dichlorobenzene

Concen: 4.778 ug/L

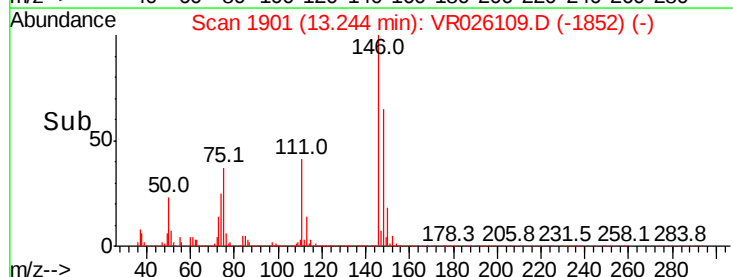
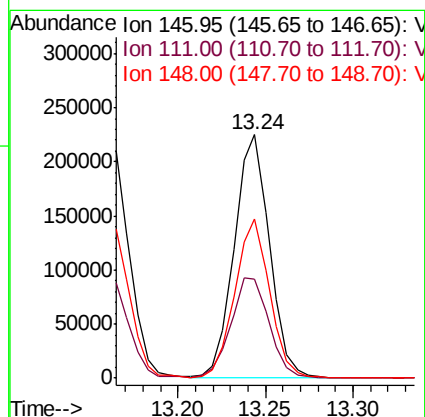
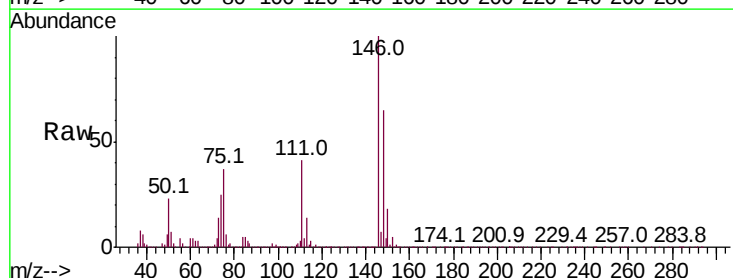
RT: 13.24 min Scan# 1901

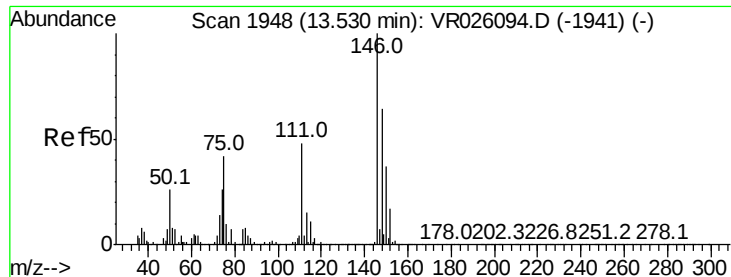
Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Tgt Ion:	146	Resp:	314714
Ion	Ratio	Lower	Upper
146	100		
111	40.6	32.6	60.6
148	65.3	46.7	86.7

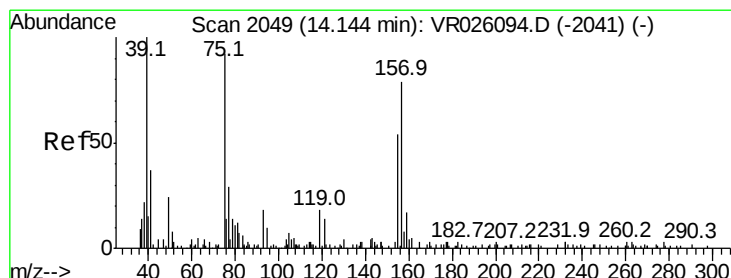
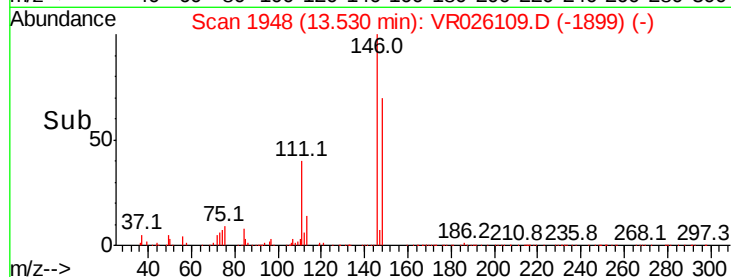
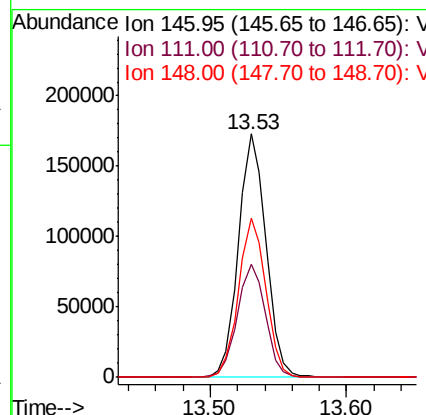
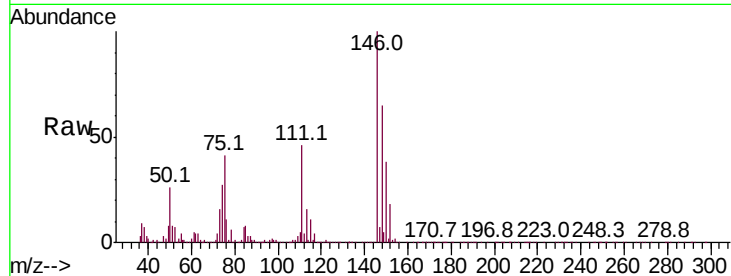




#65
 1,2-Dichlorobenzene
 Concen: 4.770 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

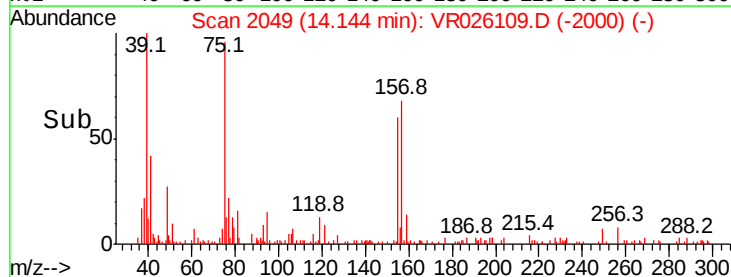
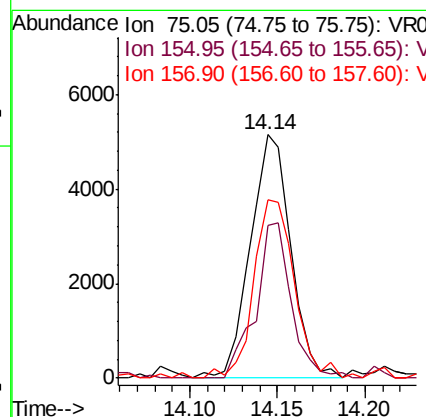
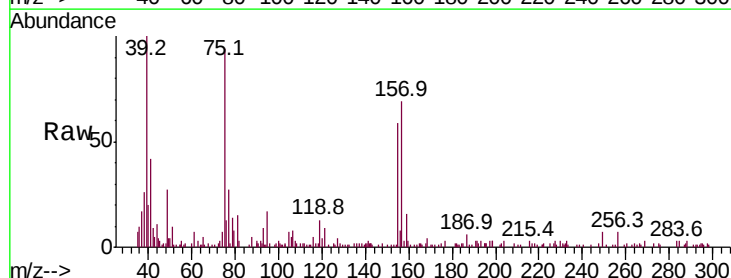
Instrument :
 MSVOA_R
 ClientSampleId :

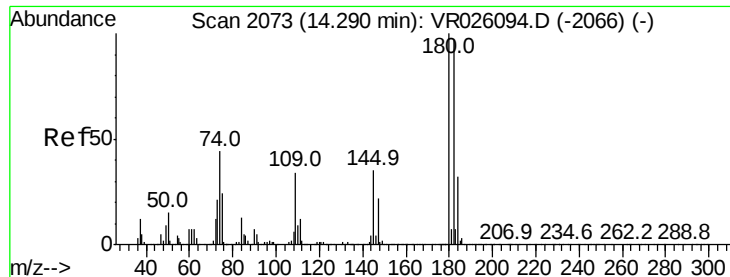
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.4	35.2	52.8
148	65.3	51.2	76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.993 ug/L
 RT: 14.14 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	62.5	40.9	61.3
157	73.2	67.3	100.9

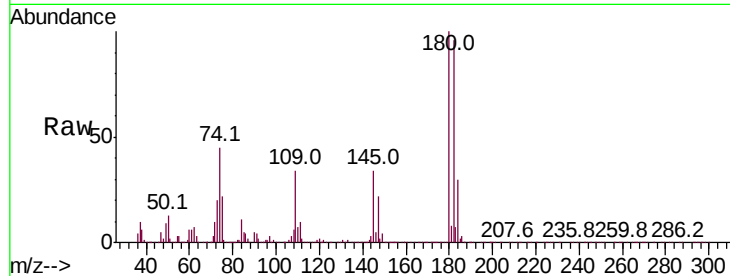




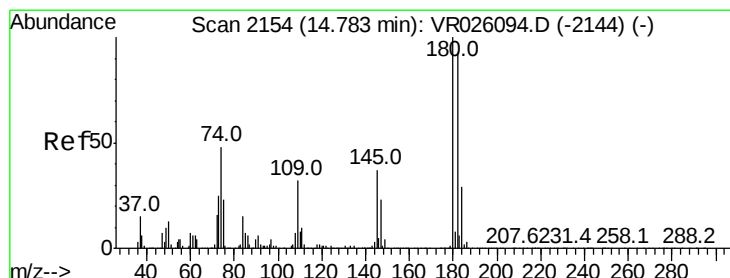
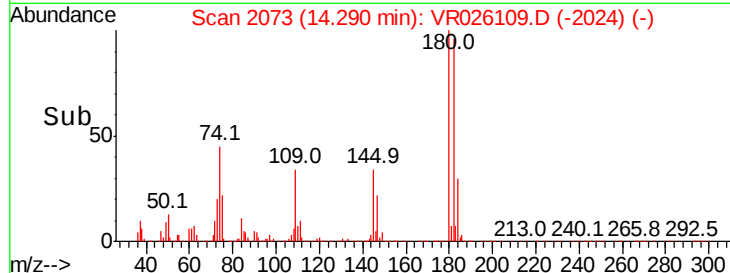
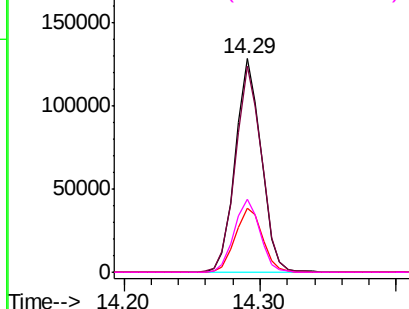
#67
 1,3,5-Trichlorobenzene
 Concen: 4.372 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Instrument :
 MSVOA_R
 ClientSampleId :

Tot Ion:180	Resp:	169403
Ion Ratio	Lower	Upper
180	100	
182	97.8	77.5 116.3
184	31.3	25.0 37.4
145	34.3	27.6 41.4

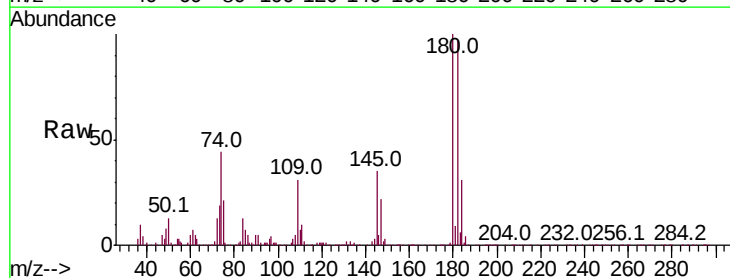


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

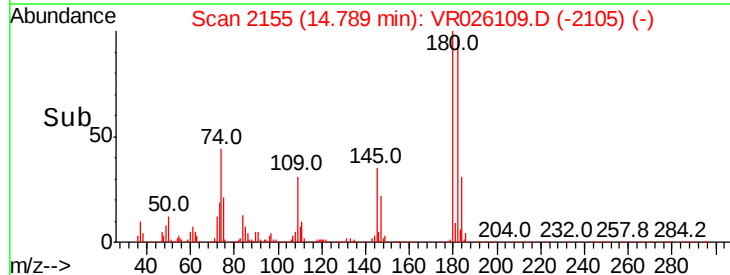
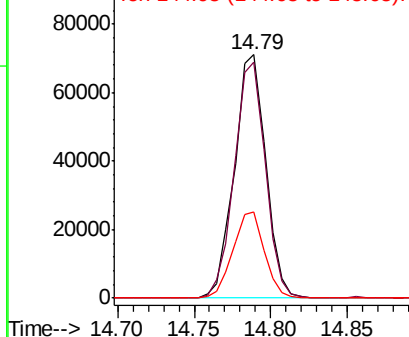


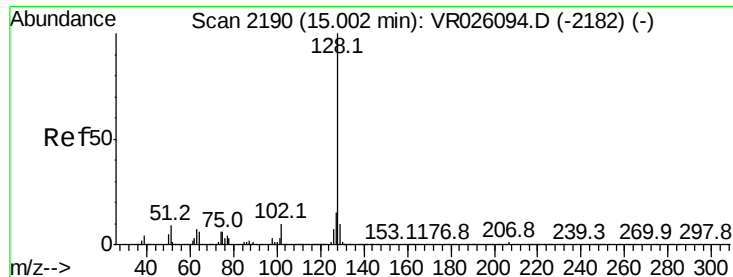
#68
 1,2,4-trichlorobenzene
 Concen: 4.473 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. 0.01 min
 Lab File: VR026109.D
 Acq: 16 Oct 2018 19:52

Tgt Ion:180	Resp:	101179
Ion Ratio	Lower	Upper
180	100	
182	96.3	76.1 114.1
145	35.3	28.2 42.4



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: 4.738 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

Instrument :

MSVOA_R

ClientSampleId :

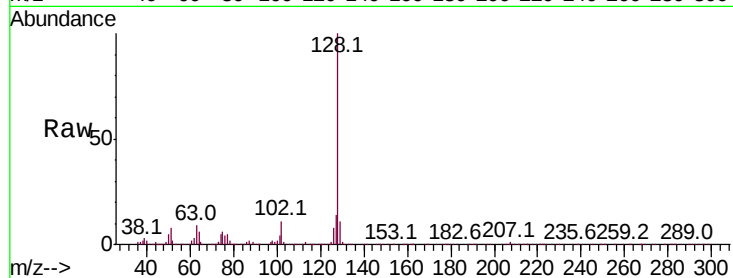
Tot Ion:128 Resp: 104065

Ion Ratio Lower Upper

128 100

127 13.3 11.0 16.6

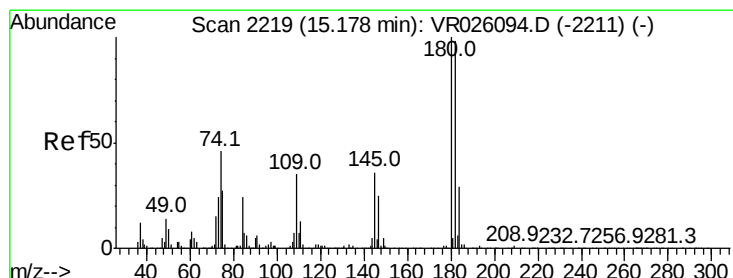
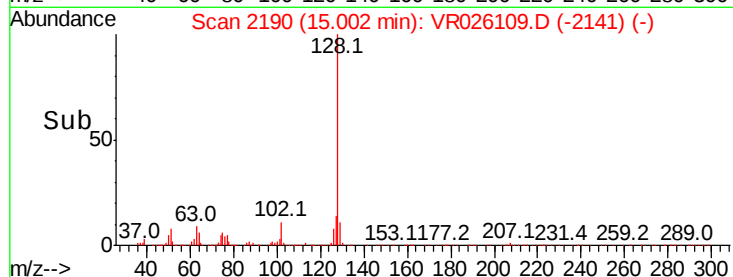
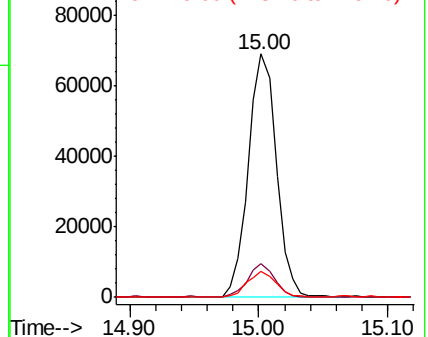
129 11.0 9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.668 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VR026109.D

Acq: 16 Oct 2018 19:52

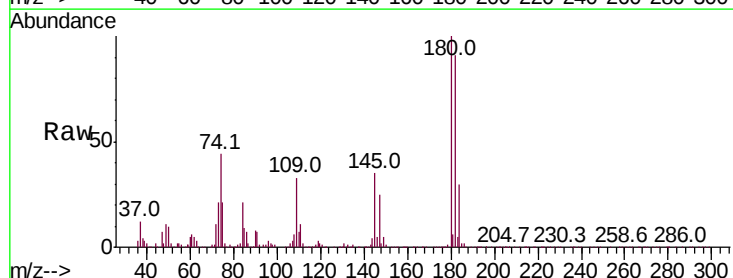
Tgt Ion:180 Resp: 73324

Ion Ratio Lower Upper

180 100

182 93.7 75.7 113.5

145 36.2 28.8 43.2



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

