

Data File : VW011490.D
Acq On : 25 Jul 2019 10:42
Operator : SY/VA
Sample : K3979-01
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DB908

Quant Time: Jul 26 01:08:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072219S.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 26 01:06:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	457879	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	401857	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	193205	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	133533	21.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.40%
7) Chloroethane-d5	2.88	69	99380	22.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.28%
10) 1,1-Dichloroethene-d2	4.02	63	303803	21.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.76%
20) 2-Butanone-d5	7.07	46	125908	48.37	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.74%
24) Chloroform-d	7.65	84	270266	23.05	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	8.31	65	166285	23.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.40%
29) Benzene-d6	8.27	84	577804	24.04	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.16%
33) 1,2-Dichloropropane-d6	9.27	67	187160	24.03	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.12%
37) Toluene-d8	10.32	98	509487	23.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.60%
38) trans-1,3-Dichloropropene-	10.58	79	80656	23.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.92%
39) 2-Hexanone-d5	10.92	63	84825	50.24	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.48%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	149415	24.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.04%
61) 1,2-Dichlorobenzene-d4	13.85	152	171759	23.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.72%

Target Compounds

					Qvalue
3) Chloromethane	2.21	50	118126	17.431 ug/L	99
6) Bromomethane	2.78	94	32343	8.394 ug/L	98
9) Trichlorofluoromethane	3.25	101	53859	14.188 ug/L	100
12) 1,1-Dichloroethene	4.04	96	128217	21.082 ug/L	93
13) Acetone	4.12	43	199931	72.601 ug/L	98
15) Methyl Acetate	4.67	43	162578	38.448 ug/L	100
16) Methylene chloride	4.92	84	73476	11.024 ug/L	97
17) Methyl tert-butyl Ether	5.42	73	302326	31.443 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	65364	10.422 ug/L	93
22) cis-1,2-Dichloroethene	7.17	96	167095	25.151 ug/L	98
23) Bromochloromethane	7.51	128	41292	14.871 ug/L	95
27) 1,2-Dichloroethane	8.40	62	83680	10.005 ug/L	100
30) Cyclohexane	7.95	56	130653	9.981 ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	90841	10.155 ug/L	99
32) Carbon tetrachloride	8.07	117	102902	12.378 ug/L	99
35) Trichloroethene	9.09	95	265225	40.003 ug/L	99
36) Methylcyclohexane	9.33	83	308920	25.623 ug/L	99

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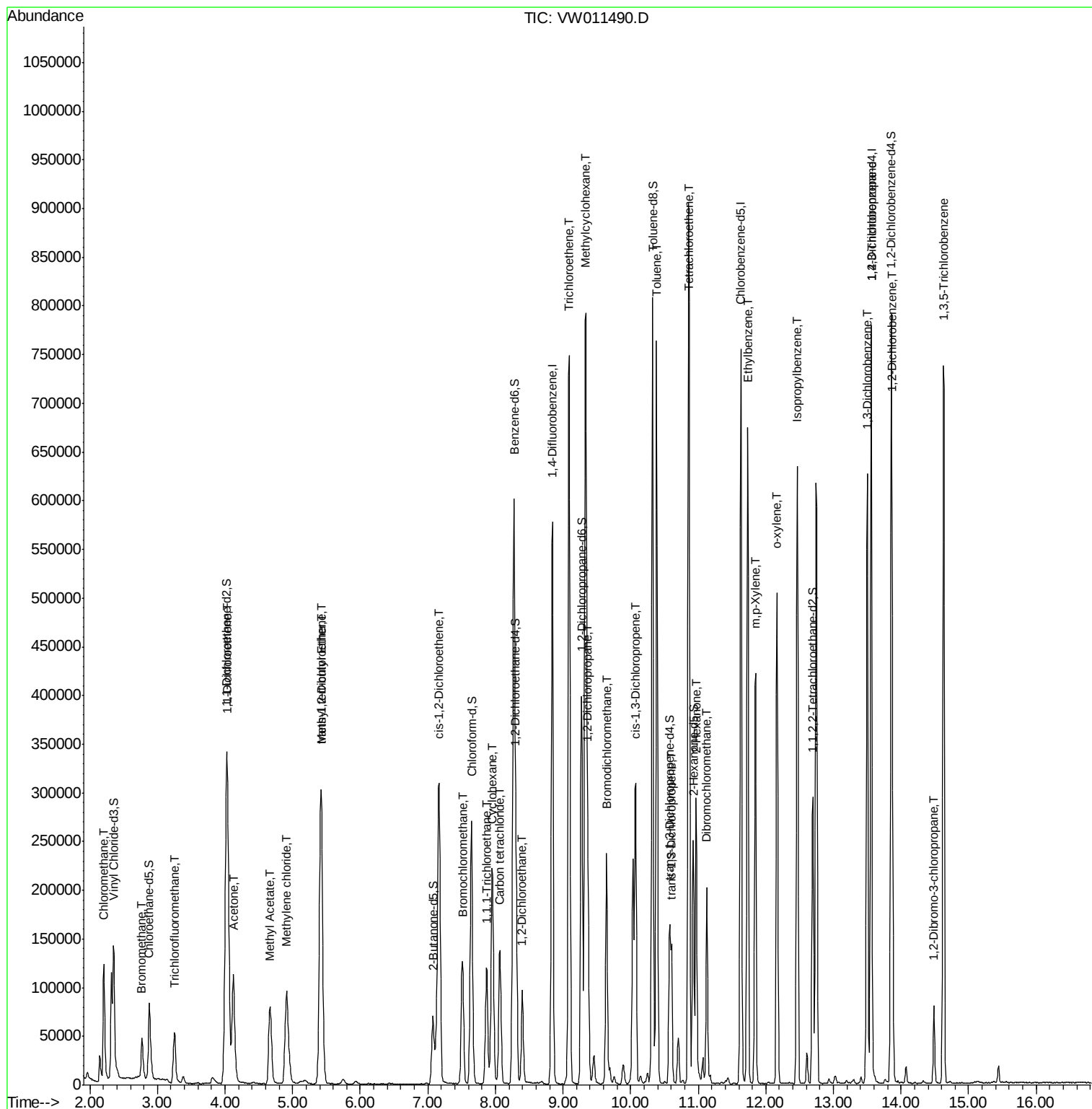
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Dichloropropane	9.37	63	90035	12.847	ug/L	100
41) Bromodichloromethane	9.64	83	158832	19.383	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	176316	16.745	ug/L	100
44) Toluene	10.39	91	541968	20.255	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	70561	8.154	ug/L	96
47) Tetrachloroethene	10.86	164	202072	39.726	ug/L	99
49) 2-Hexanone	10.97	43	197023	43.503	ug/L	100
50) Dibromochloromethane	11.13	129	100732	19.398	ug/L	98
53) Ethylbenzene	11.73	91	452651	15.032	ug/L	99
54) m,p-Xylene	11.85	106	110186	9.991	ug/L	99
55) o-xylene	12.16	106	127598	12.275	ug/L	99
57) Isopropylbenzene	12.46	105	361867	12.781	ug/L	98
59) 1,2,3-Trichloropropane	13.55	75	26029	5.590	ug/L	94
63) 1,3-Dichlorobenzene	13.50	146	246624	20.158	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	113159	10.052	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	19353	18.036	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	227742	24.402	ug/L	99

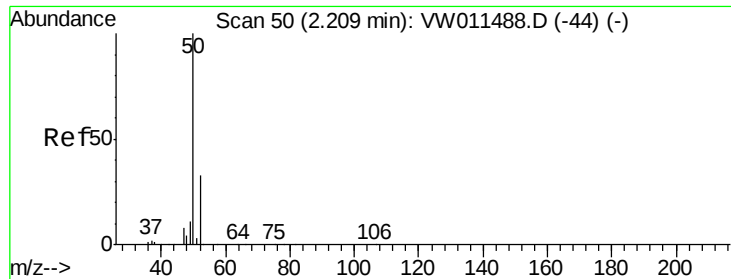
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 17.431 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

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Acq: 25 Jul 2019 10:42

Instrument :

MSVOA_W

ClientSampleId :

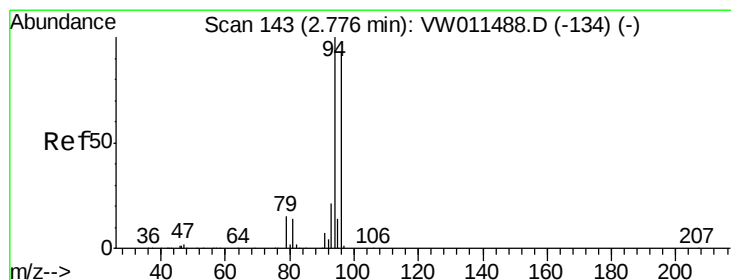
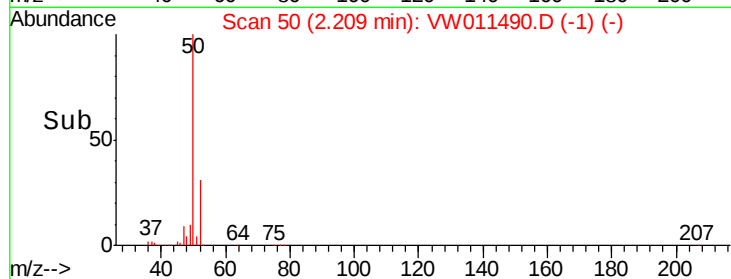
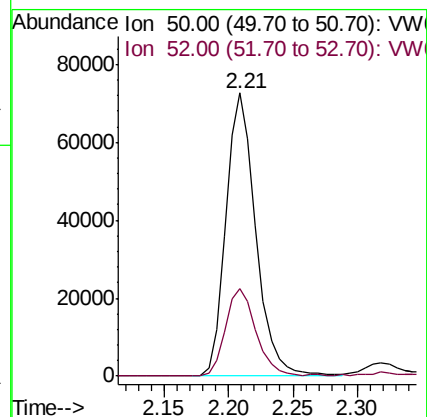
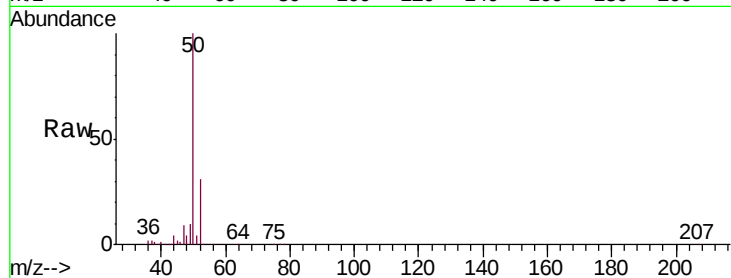
DB908

Tgt Ion: 50 Resp: 118126

Ion Ratio Lower Upper

50 100

52 31.1 22.0 41.0



#6

Bromomethane

Concen: 8.394 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW011490.D

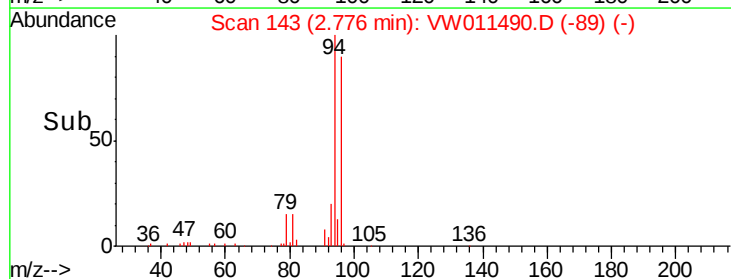
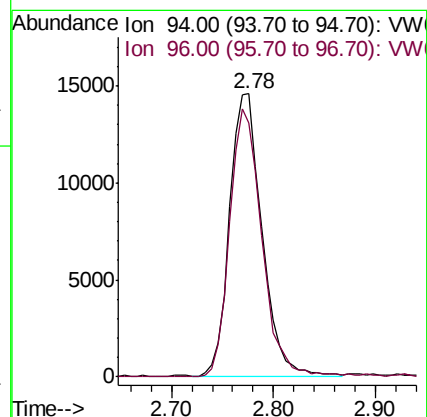
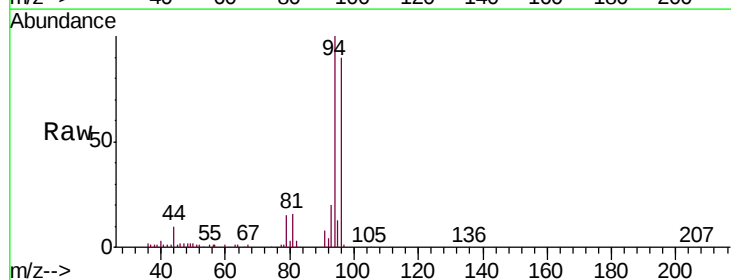
Acq: 25 Jul 2019 10:42

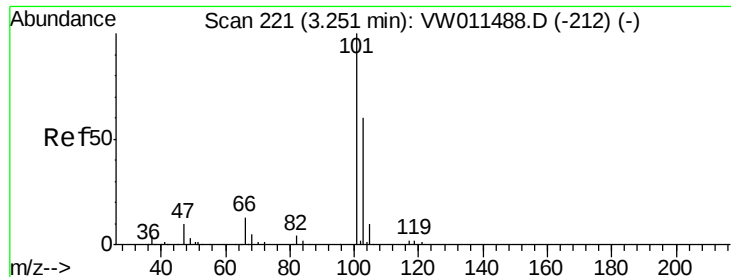
Tgt Ion: 94 Resp: 32343

Ion Ratio Lower Upper

94 100

96 92.5 9.4 178.8



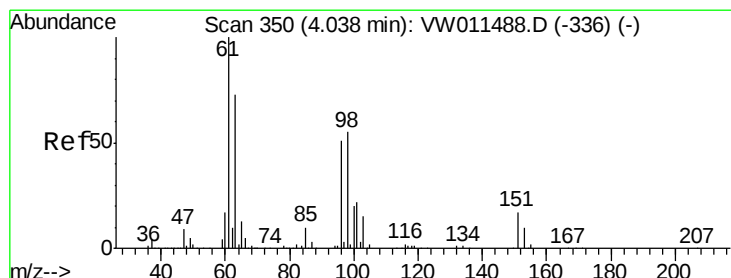
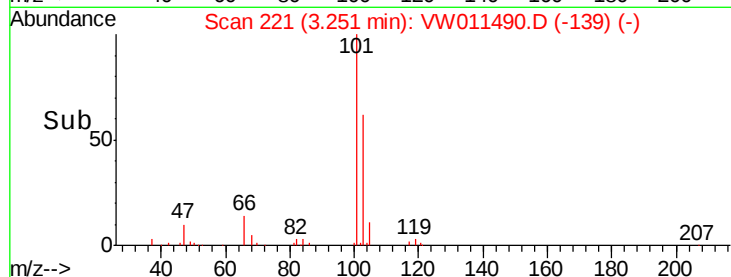
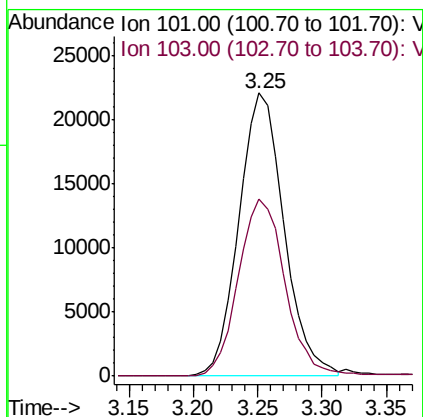
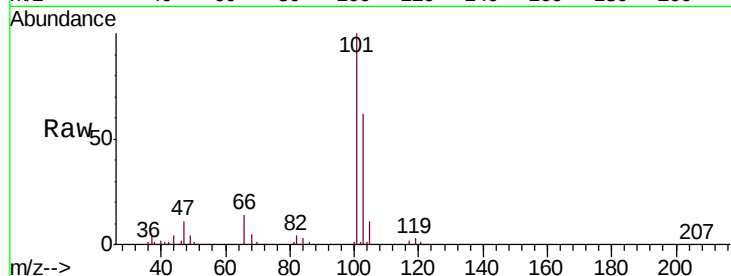


#9

Trichlorofluoromethane
Concen: 14.188 ug/L
RT: 3.25 min Scan# 221
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Instrument :
MSVOA_W
ClientSampleId :
DB908

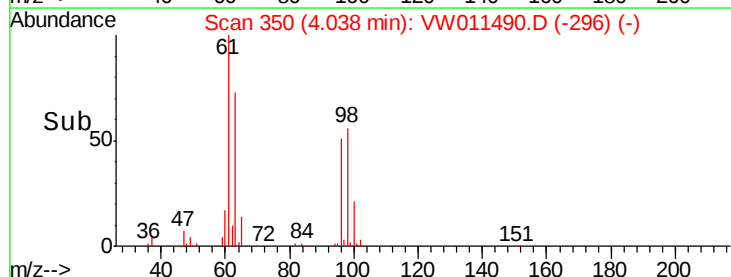
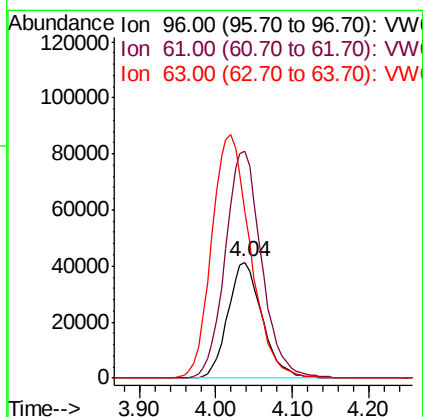
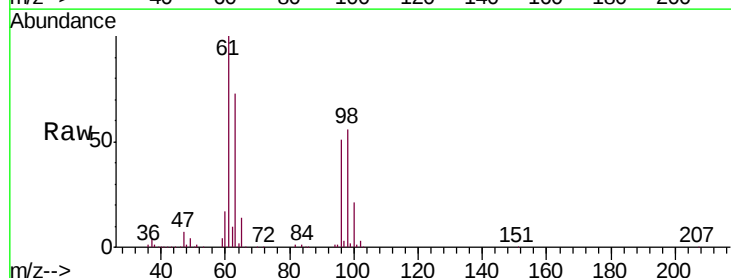
Tgt Ion:101 Resp: 53859
Ion Ratio Lower Upper
101 100
103 64.7 45.2 84.0

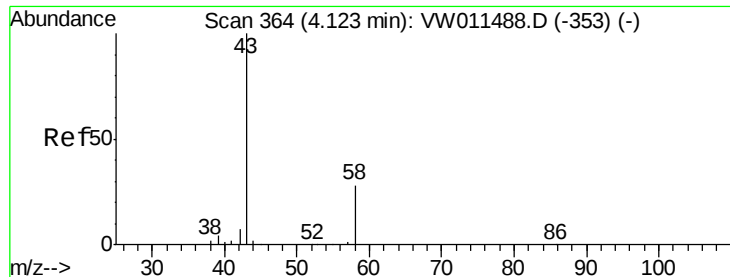


#12

1,1-Dichloroethene
Concen: 21.082 ug/L
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion: 96 Resp: 128217
Ion Ratio Lower Upper
96 100
61 195.6 133.2 247.4
63 143.7 89.9 166.9





#13

Acetone

Concen: 72.601 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW011490.D

Acq: 25 Jul 2019 10:42

Instrument :

MSVOA_W

ClientSampleId :

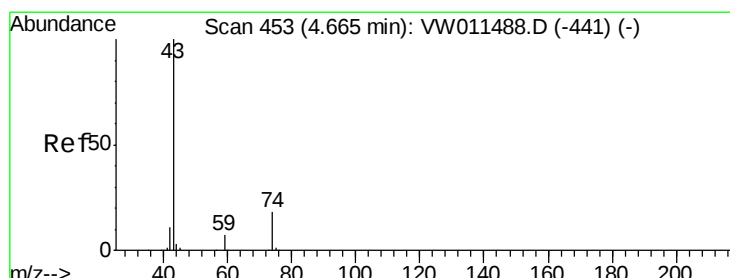
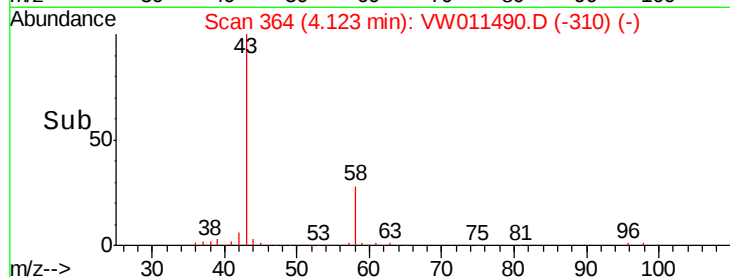
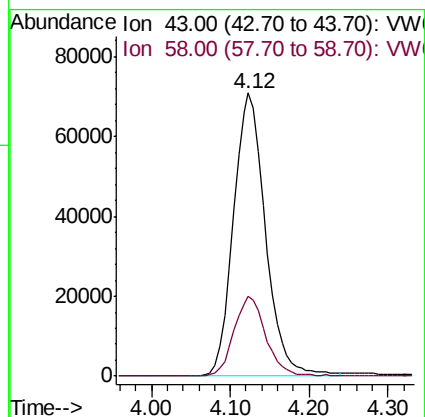
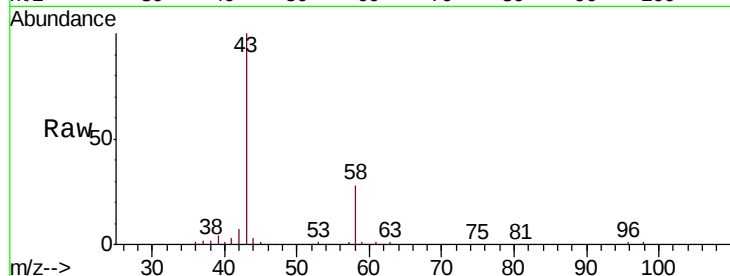
DB908

Tgt Ion: 43 Resp: 199931

Ion Ratio Lower Upper

43 100

58 27.6 0.0 57.2



#15

Methyl Acetate

Concen: 38.448 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW011490.D

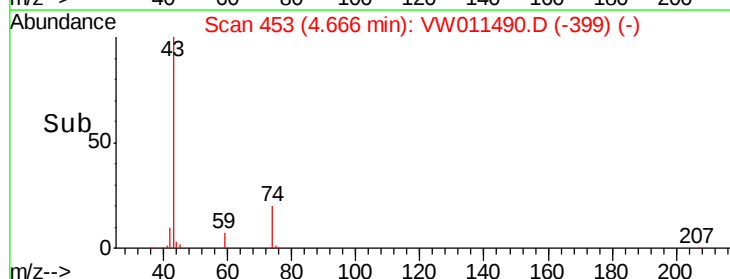
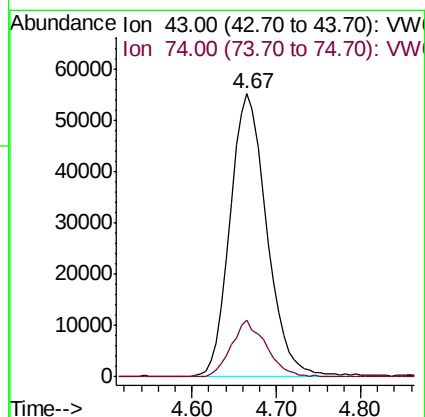
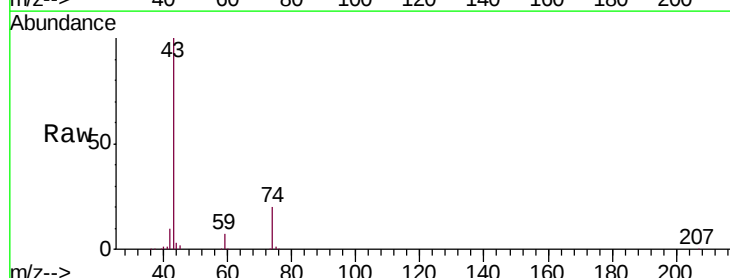
Acq: 25 Jul 2019 10:42

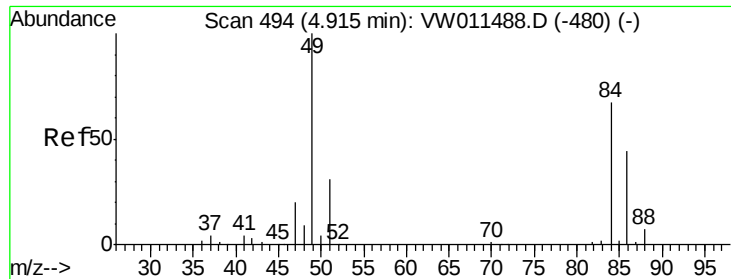
Tgt Ion: 43 Resp: 162578

Ion Ratio Lower Upper

43 100

74 19.1 15.2 22.8

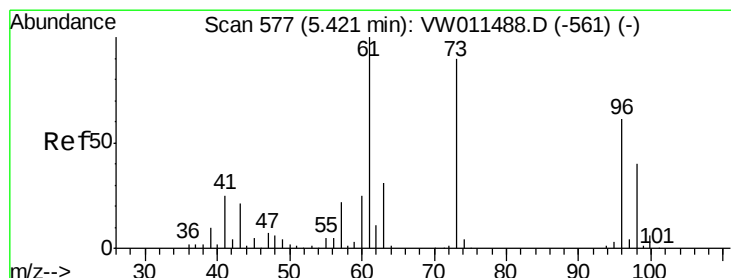
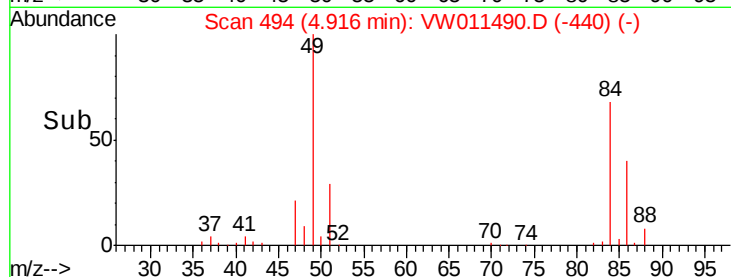
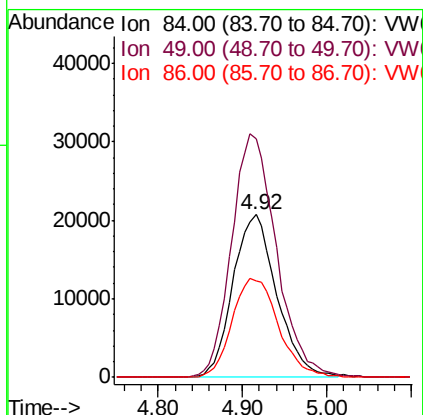
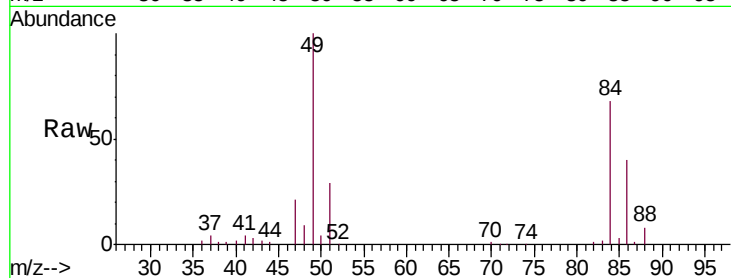




#16
Methylene chloride
Concen: 11.024 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

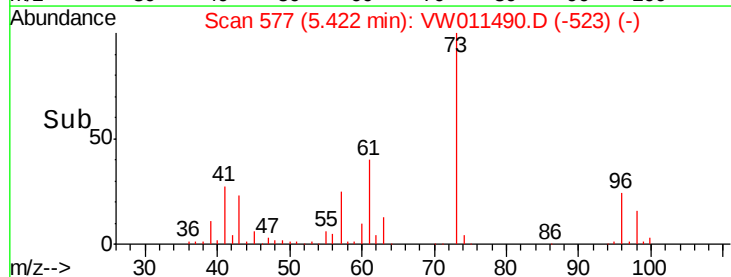
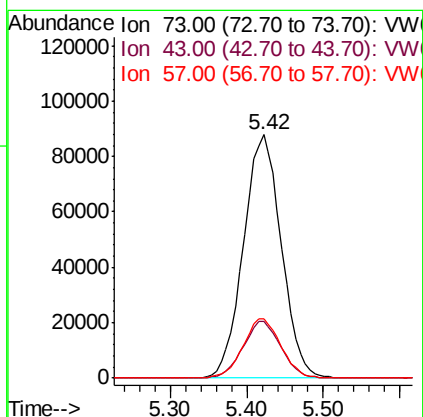
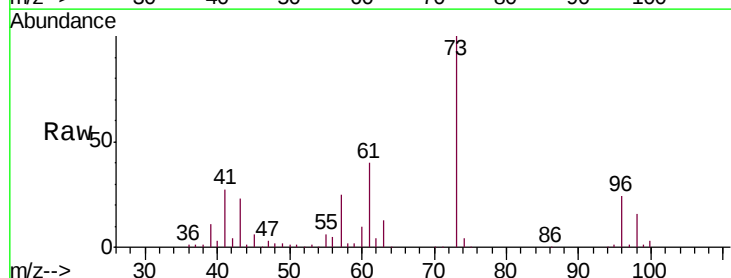
Instrument :
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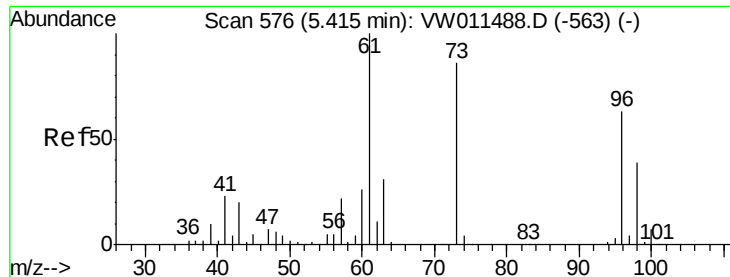
Tgt Ion: 84 Resp: 73476
Ion Ratio Lower Upper
84 100
49 146.5 104.0 193.2
86 59.1 44.0 81.8



#17
Methyl tert-butyl Ether
Concen: 31.443 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion: 73 Resp: 302326
Ion Ratio Lower Upper
73 100
43 23.4 19.0 28.4
57 24.5 19.8 29.6

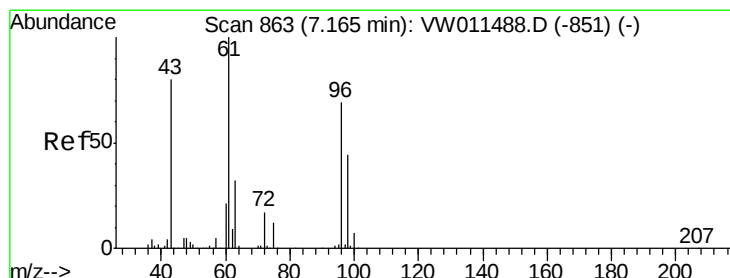
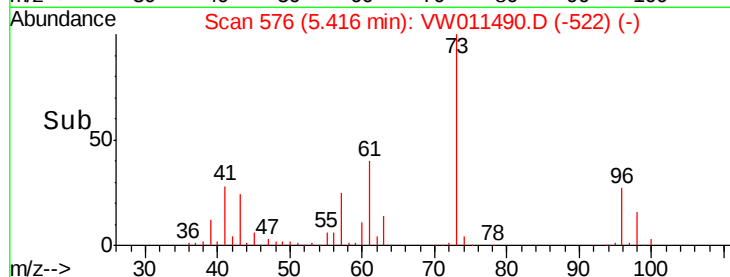
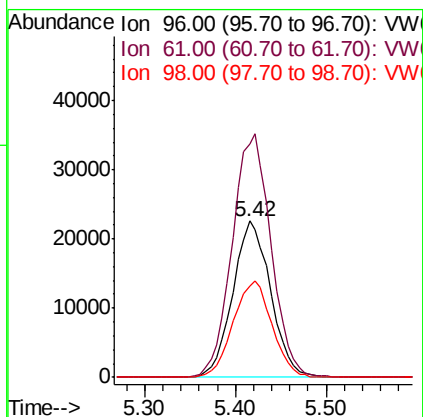
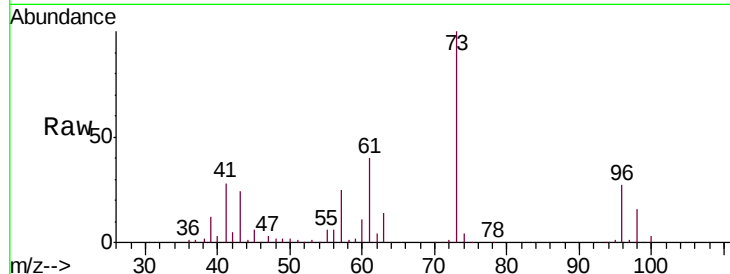




#18
trans-1,2-Dichloroethene
Concen: 10.422 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

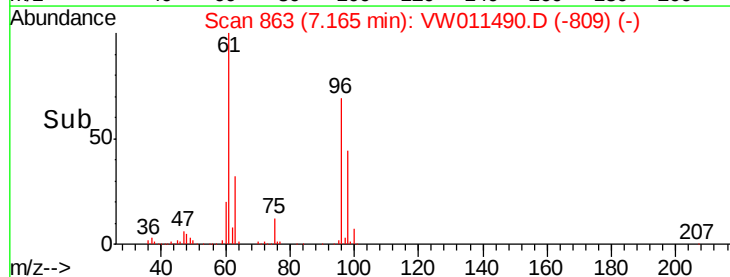
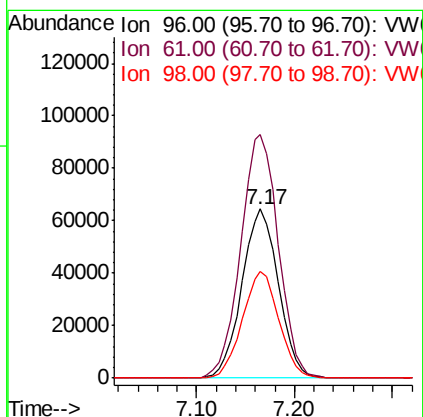
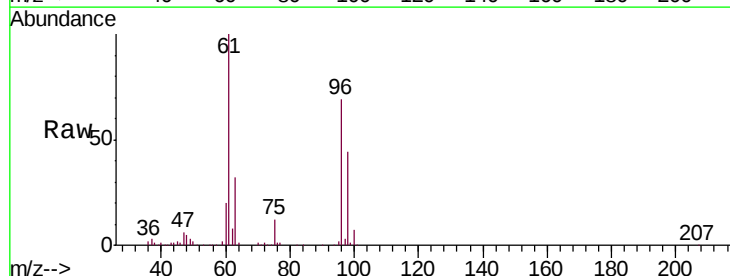
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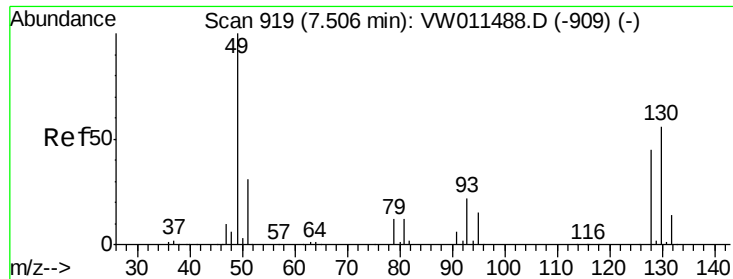
Tgt Ion: 96 Resp: 65364
Ion Ratio Lower Upper
96 100
61 149.0 111.7 207.5
98 58.1 43.4 80.6



#22
cis-1,2-Dichloroethene
Concen: 25.151 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion: 96 Resp: 167095
Ion Ratio Lower Upper
96 100
61 144.0 101.8 189.0
98 62.9 45.4 84.2





#23

Bromochloromethane

Concen: 14.871 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW011490.D

Acq: 25 Jul 2019 10:42

Instrument :

MSVOA_W

ClientSampleId :

DB908

Tgt Ion:128 Resp: 41292

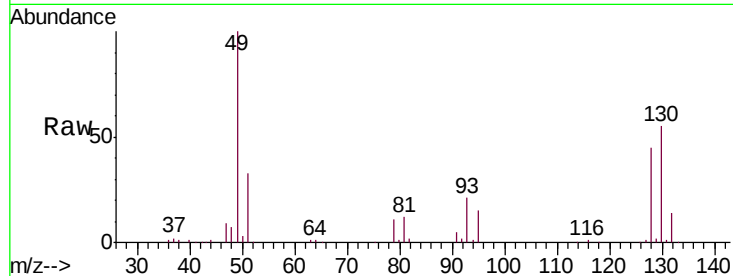
Ion Ratio Lower Upper

128 100

49 222.3 152.0 282.2

130 122.0 89.8 166.8

51 72.3 52.9 79.3

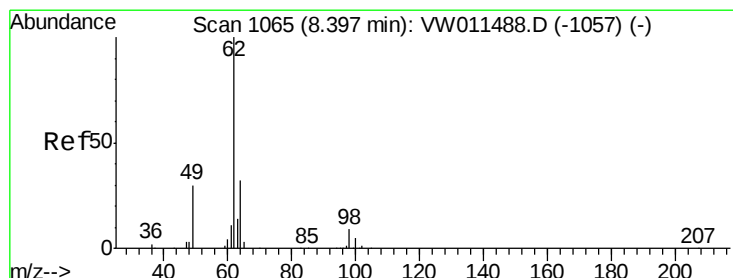
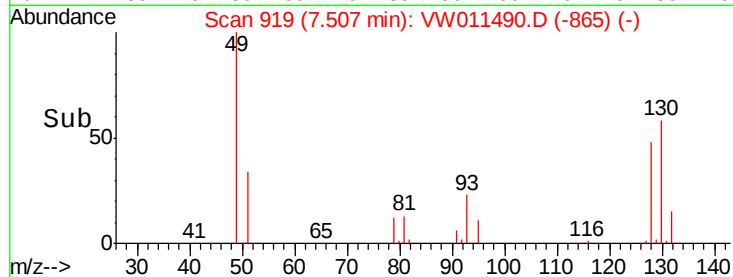
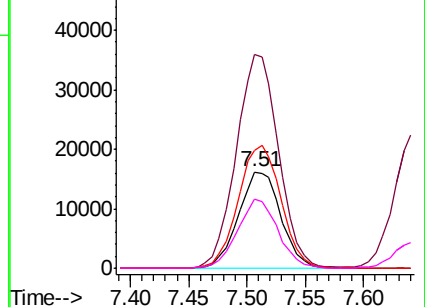


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#27

1,2-Dichloroethane

Concen: 10.005 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW011490.D

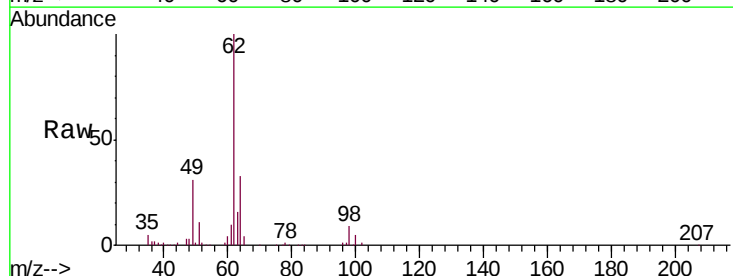
Acq: 25 Jul 2019 10:42

Tgt Ion: 62 Resp: 83680

Ion Ratio Lower Upper

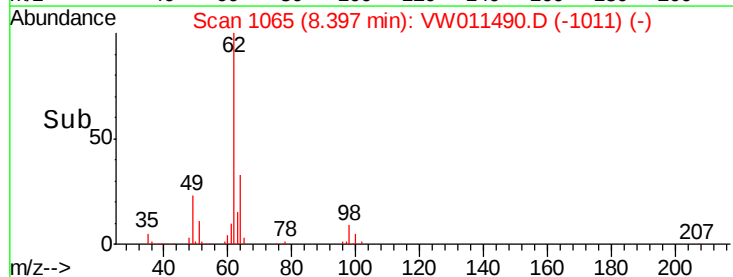
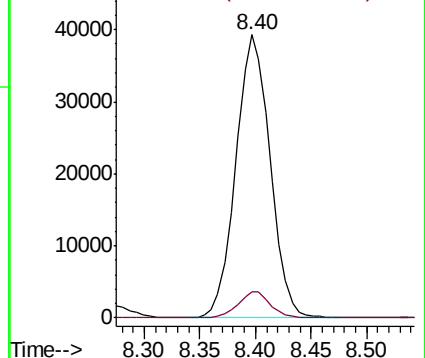
62 100

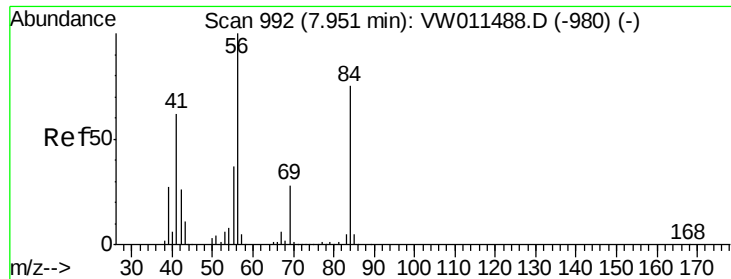
98 9.1 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

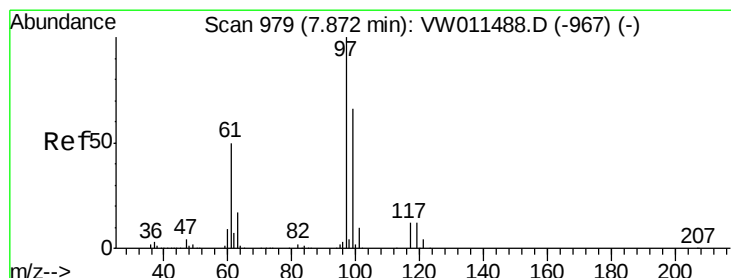
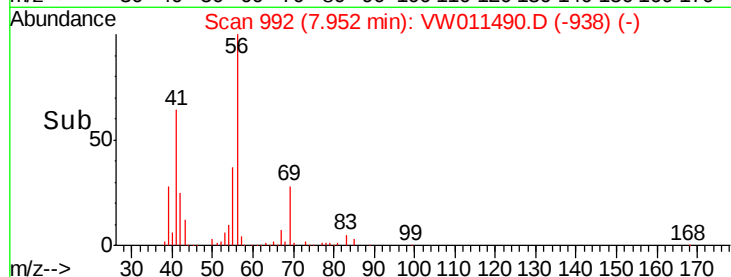
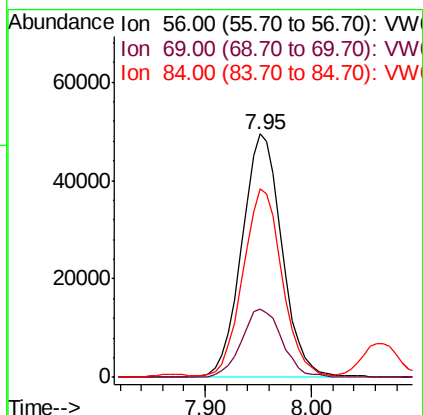
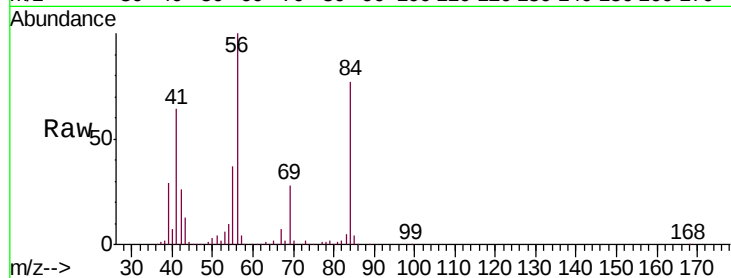




#30
Cyclohexane
Concen: 9.981 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

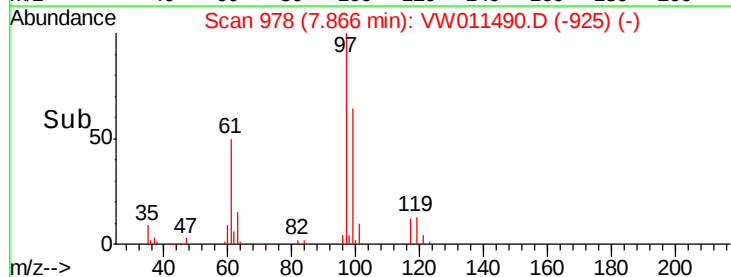
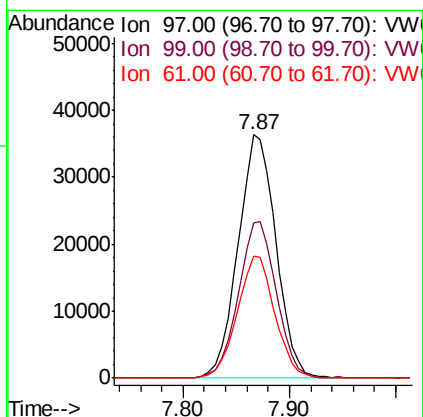
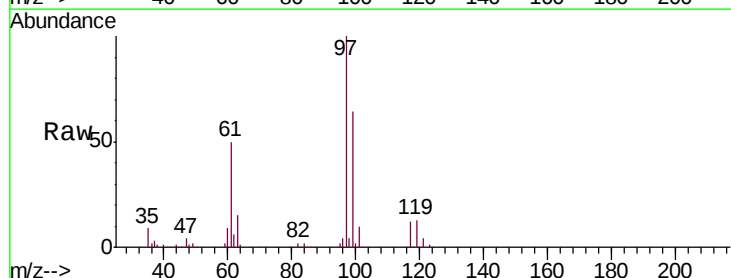
Instrument :
MSVOA_W
ClientSampleId :
DB908

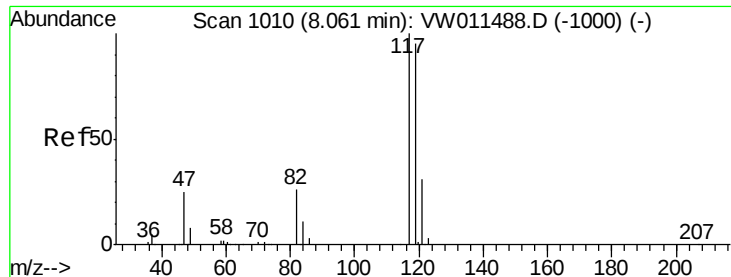
Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.3	22.6	34.0
84	75.8	60.4	90.6



#31
1,1,1-Trichloroethane
Concen: 10.155 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	49.6	39.4	59.2

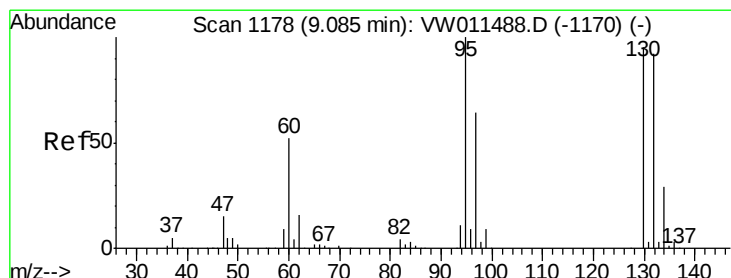
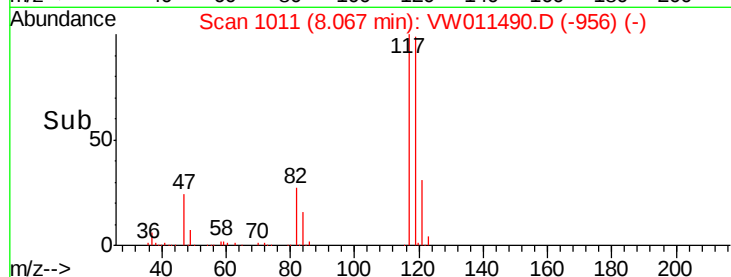
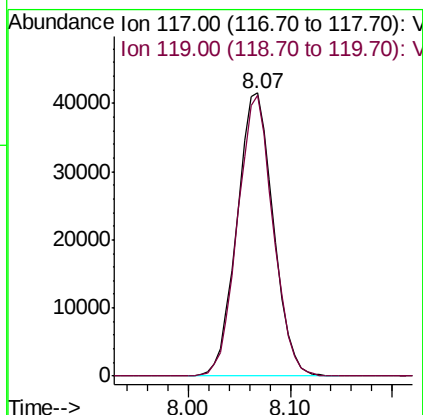
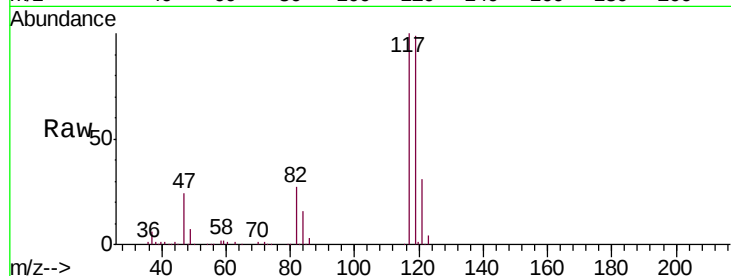




#32
Carbon tetrachloride
Concen: 12.378 ug/L
RT: 8.07 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

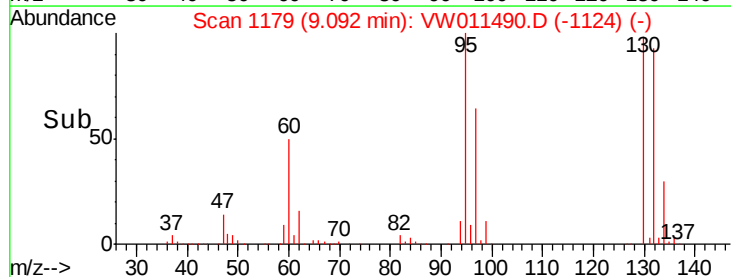
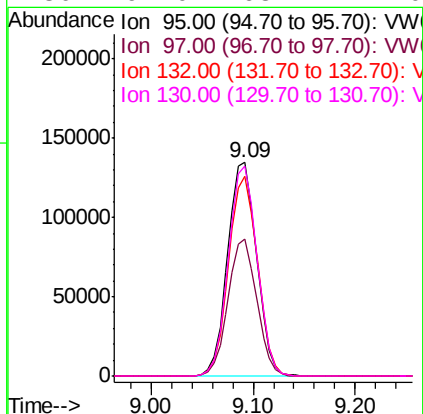
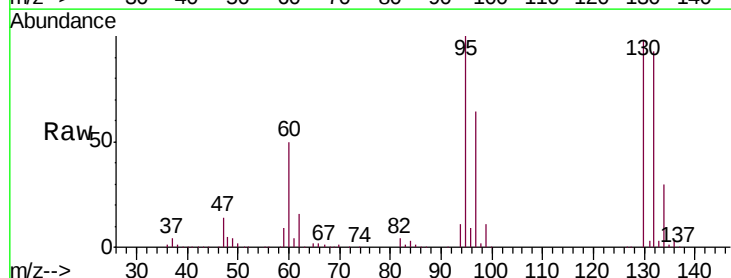
Instrument :
MSVOA_W
ClientSampleId :
DB908

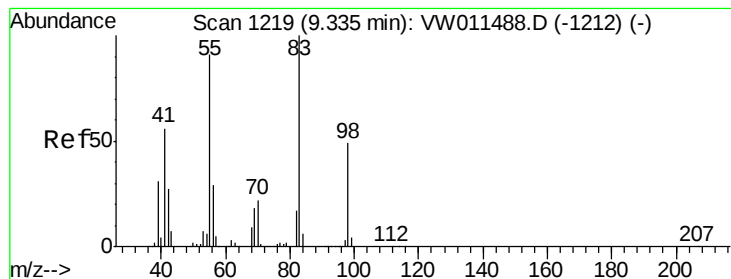
Tgt Ion: 117 Resp: 102902
Ion Ratio Lower Upper
117 100
119 96.5 76.6 114.8



#35
Trichloroethene
Concen: 40.003 ug/L
RT: 9.09 min Scan# 1179
Delta R.T. 0.01 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion: 95 Resp: 265225
Ion Ratio Lower Upper
95 100
97 63.4 44.6 82.8
132 92.7 66.0 122.6
130 97.0 68.4 127.0

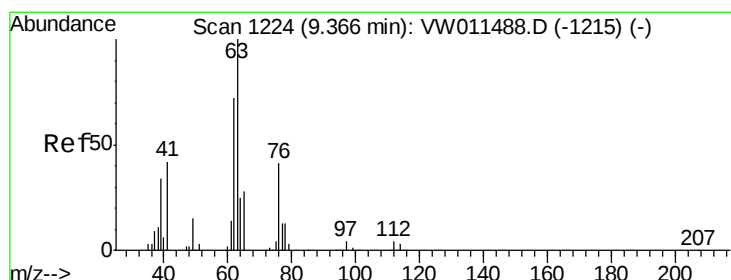
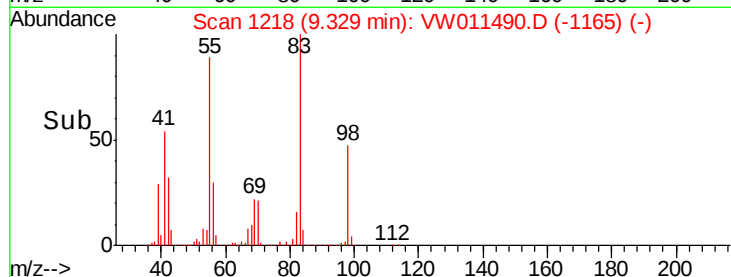
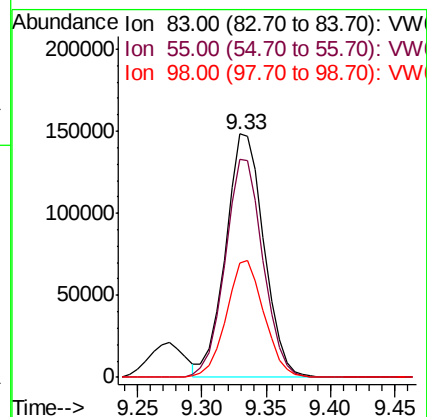
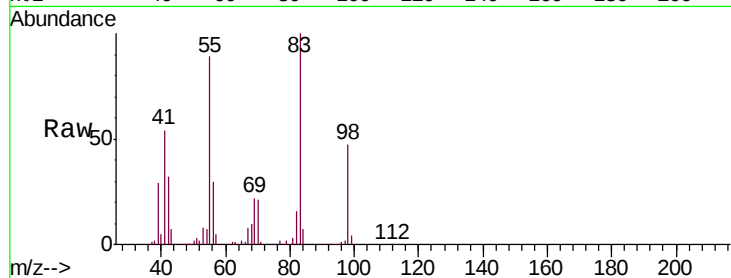




#36
Methylcyclohexane
Concen: 25.623 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

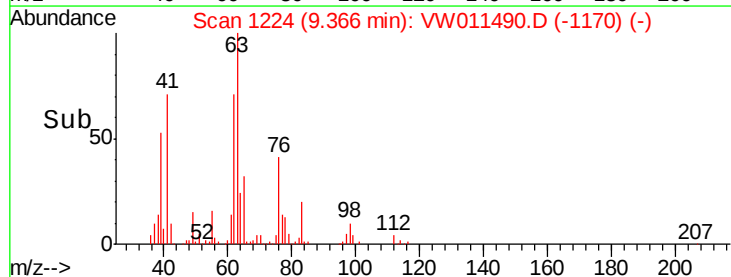
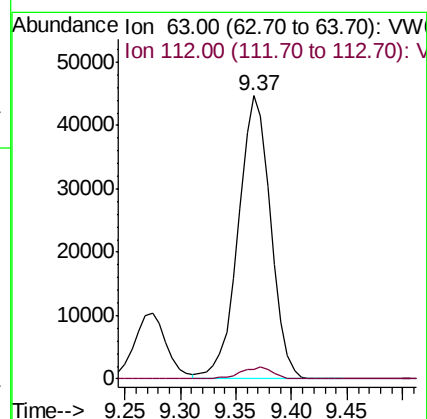
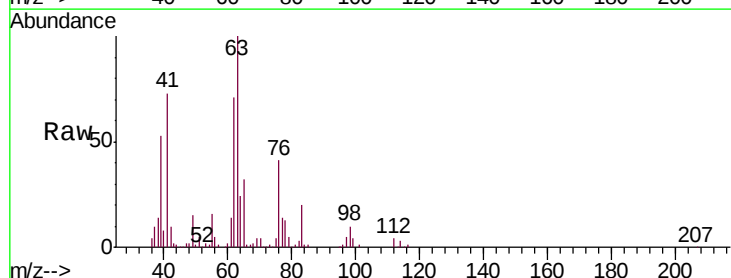
Instrument :
MSVOA_W
ClientSampleId :
DB908

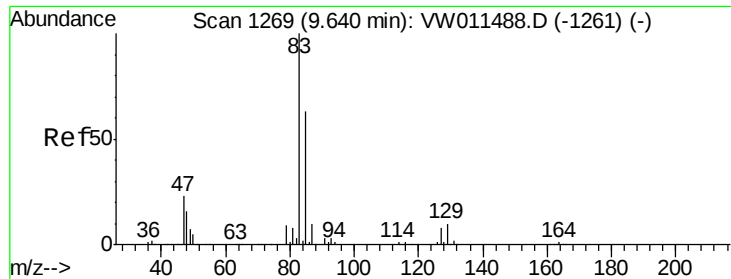
Tgt Ion: 83 Resp: 308920
Ion Ratio Lower Upper
83 100
55 88.6 71.5 107.3
98 47.0 37.4 56.2



#40
1,2-Dichloropropane
Concen: 12.847 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion: 63 Resp: 90035
Ion Ratio Lower Upper
63 100
112 4.2 3.2 4.8

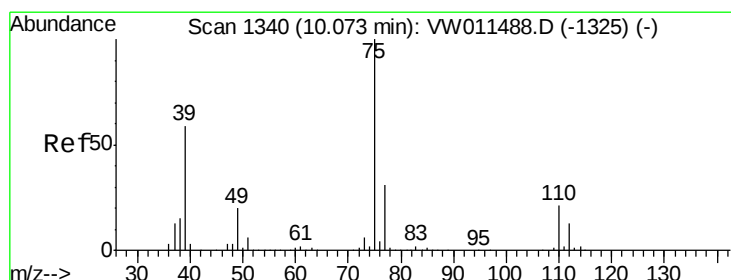
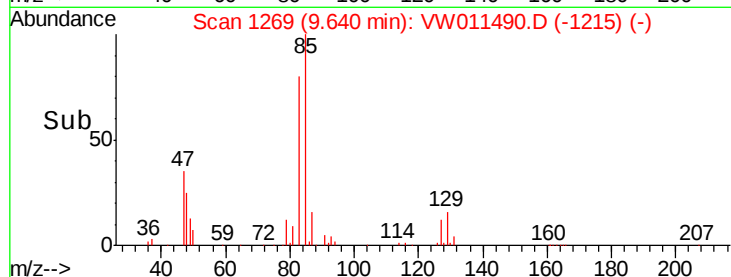
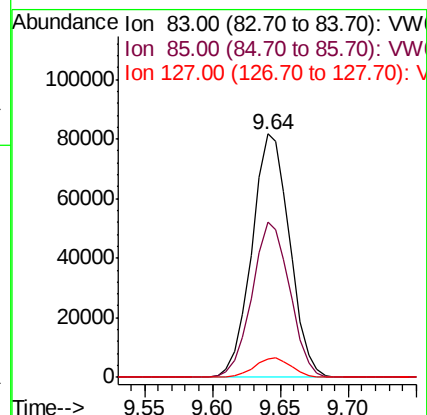
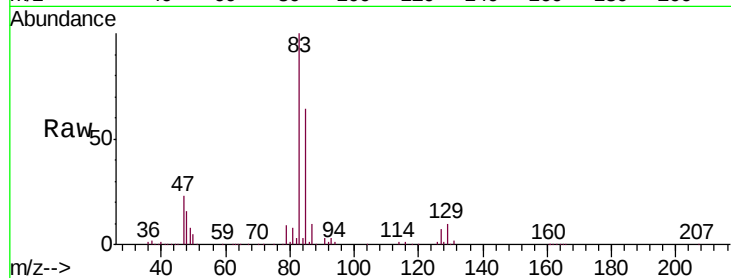




#41
 Bromodichloromethane
 Concen: 19.383 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW011490.D
 Acq: 25 Jul 2019 10:42

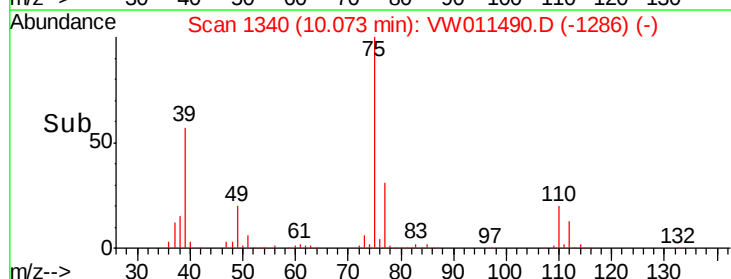
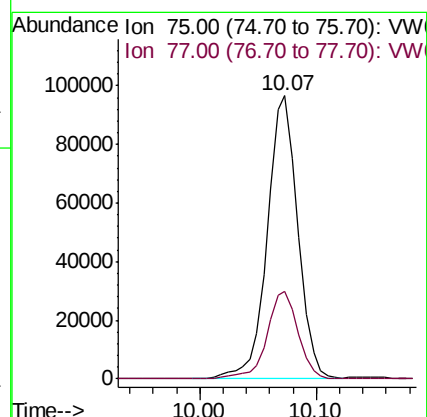
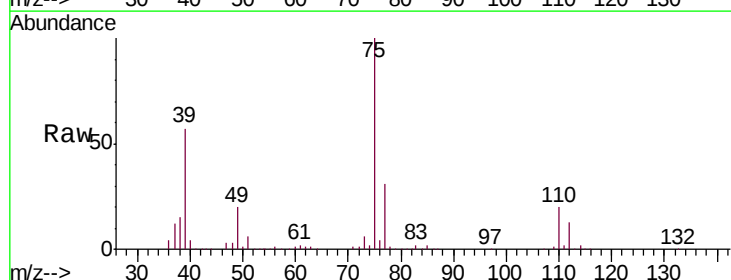
Instrument :
 MSVOA_W
 ClientSampleId :
 DB908

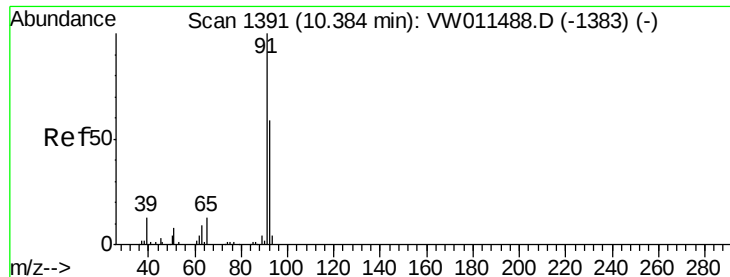
Tgt Ion: 83 Resp: 158832
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.3 82.3
 127 7.4 6.6 9.8



#42
 cis-1,3-Dichloropropene
 Concen: 16.745 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW011490.D
 Acq: 25 Jul 2019 10:42

Tgt Ion: 75 Resp: 176316
 Ion Ratio Lower Upper
 75 100
 77 30.8 21.6 40.2





#44

Toluene

Concen: 20.255 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW011490.D

Acq: 25 Jul 2019 10:42

Instrument :

MSVOA_W

ClientSampled :

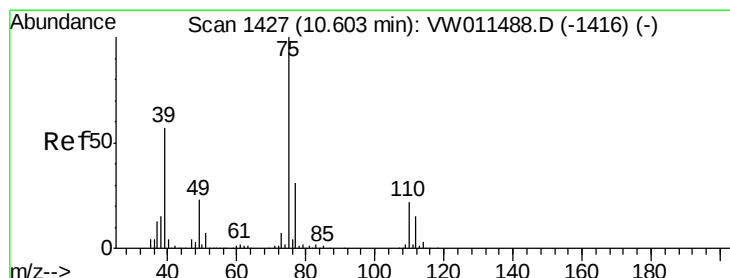
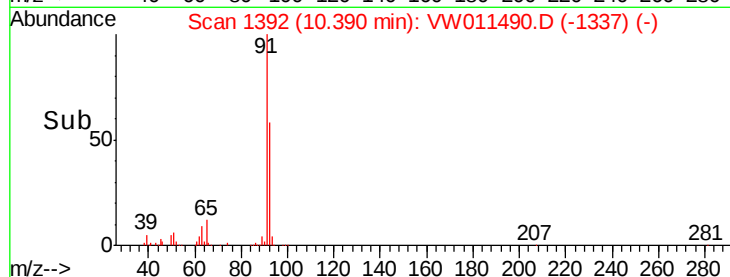
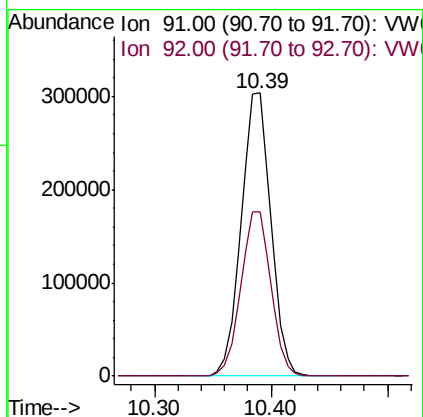
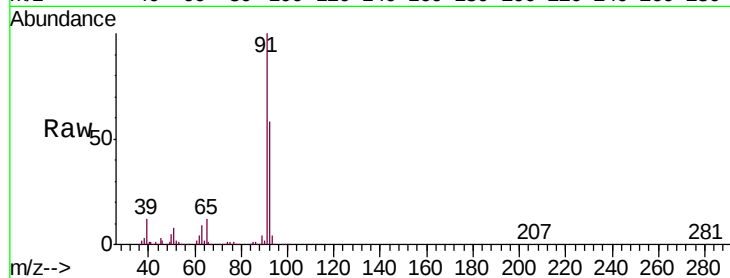
DB908

Tgt Ion: 91 Resp: 541968

Ion Ratio Lower Upper

91 100

92 58.0 41.2 76.4



#45

trans-1,3-Dichloropropene

Concen: 8.154 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011490.D

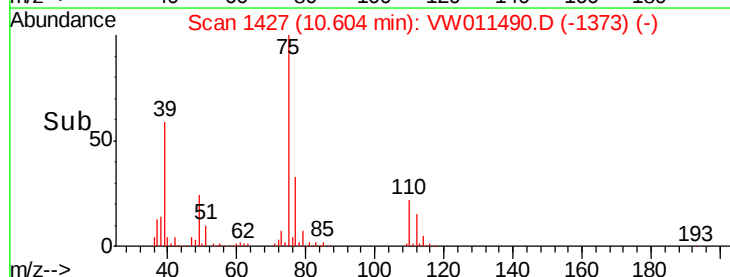
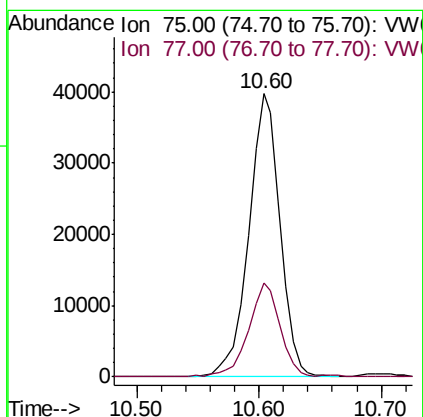
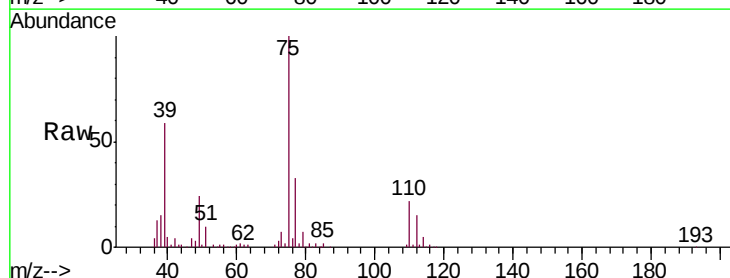
Acq: 25 Jul 2019 10:42

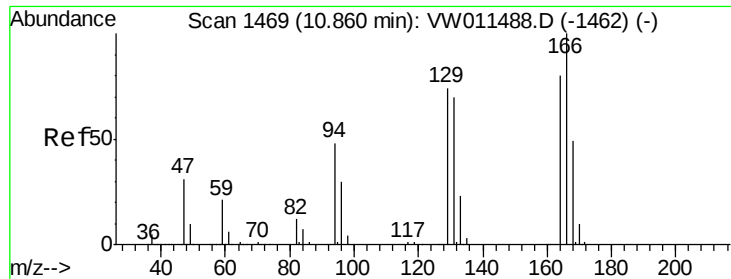
Tgt Ion: 75 Resp: 70561

Ion Ratio Lower Upper

75 100

77 33.3 21.8 40.6

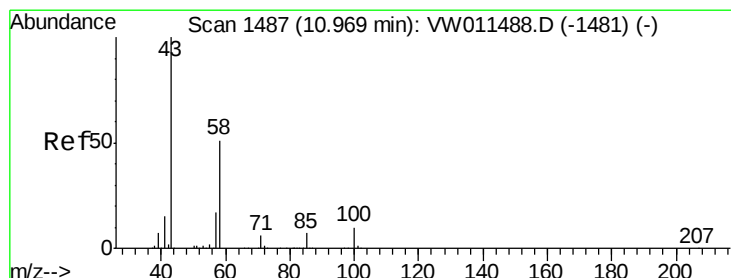
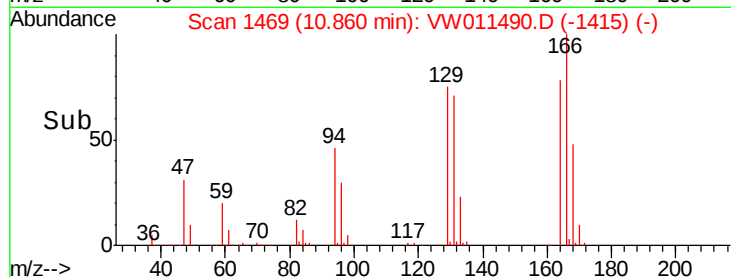
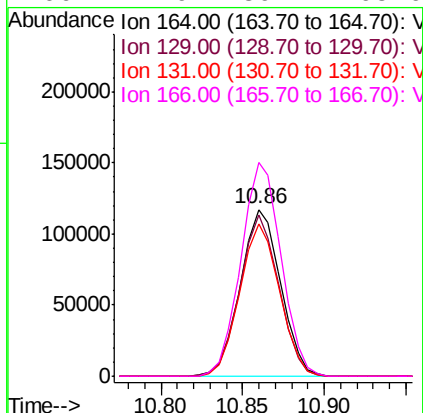
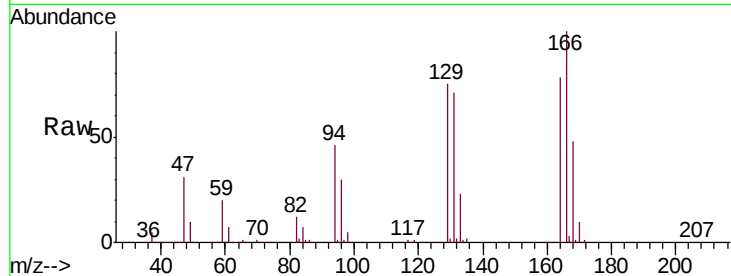




#47
Tetrachloroethene
Concen: 39.726 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

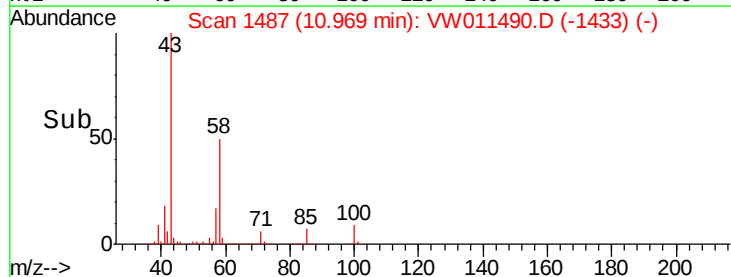
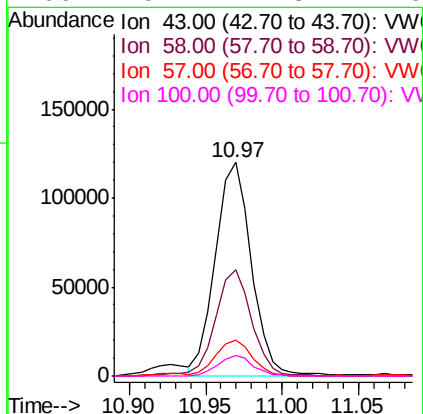
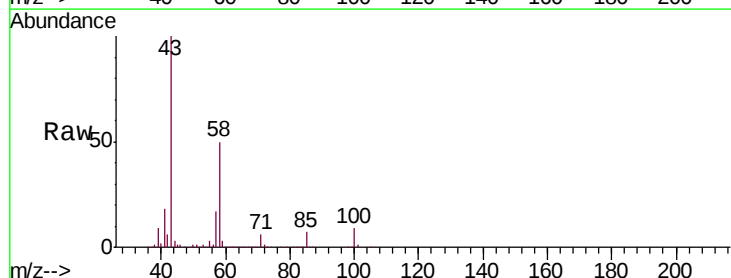
Instrument :
MSVOA_W
ClientSampled :
DB908

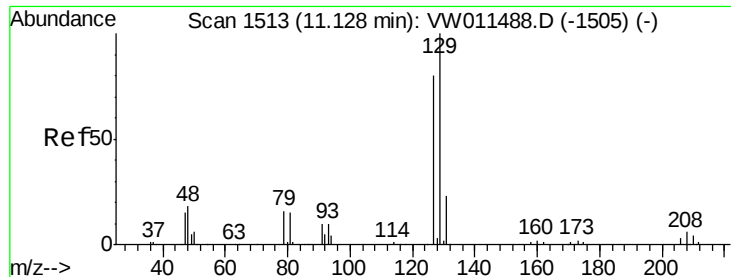
Tgt Ion:	164	Resp:	202072
Ion	Ratio	Lower	Upper
164	100		
129	96.3	69.0	128.1
131	91.1	64.5	119.7
166	127.9	89.2	165.6



#49
2-Hexanone
Concen: 43.503 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion:	43	Resp:	197023
Ion	Ratio	Lower	Upper
43	100		
58	50.0	40.1	60.1
57	17.1	13.8	20.6
100	9.4	7.8	11.6

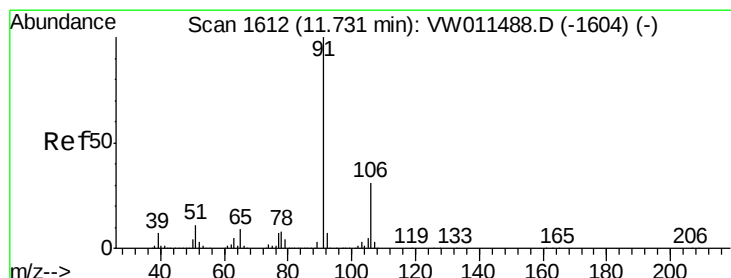
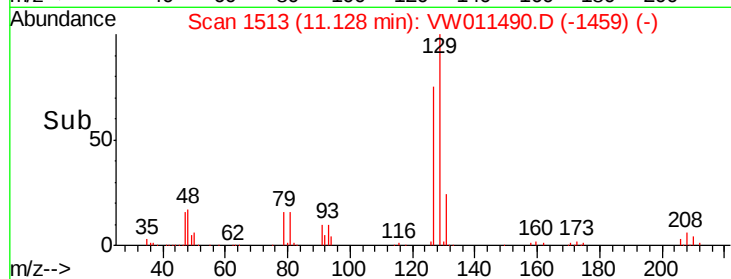
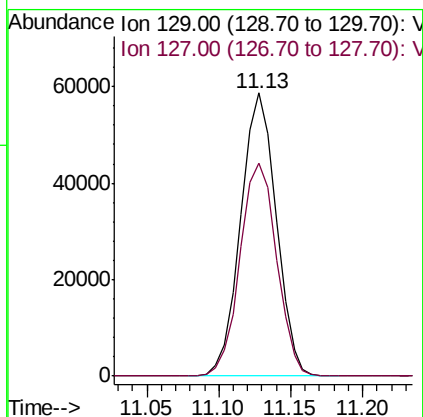
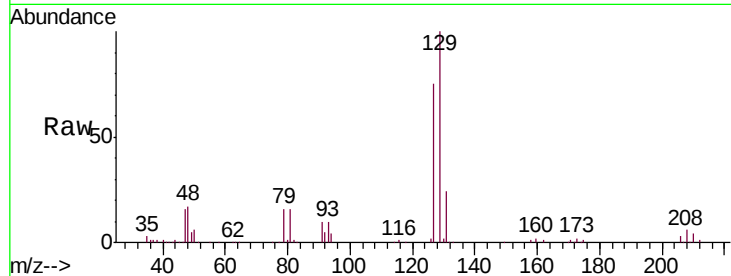




#50
Dibromochloromethane
Concen: 19.398 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

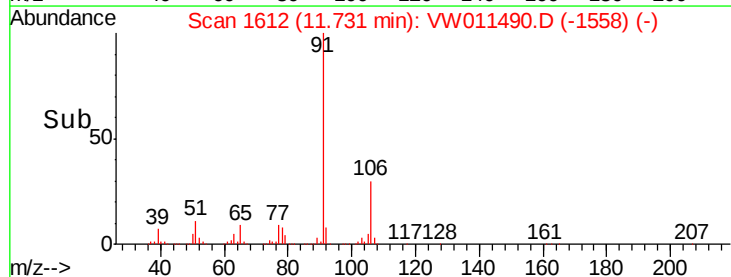
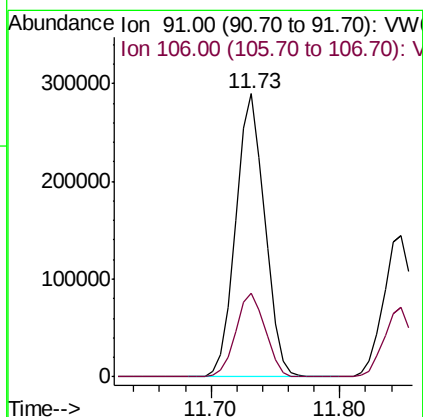
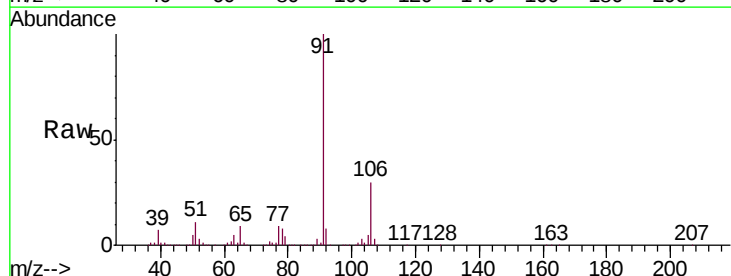
Instrument :
MSVOA_W
ClientSampleId :
DB908

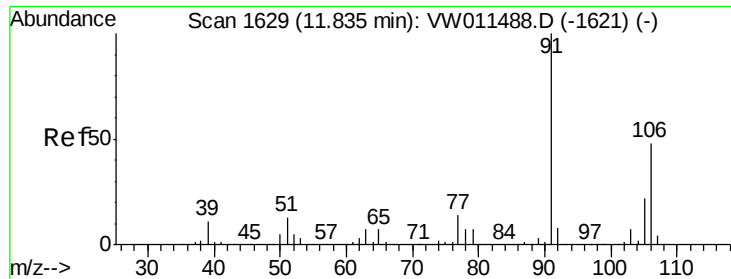
Tgt Ion:129 Resp: 100732
Ion Ratio Lower Upper
129 100
127 75.4 53.9 100.1



#53
Ethylbenzene
Concen: 15.032 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion: 91 Resp: 452651
Ion Ratio Lower Upper
91 100
106 29.8 21.1 39.1

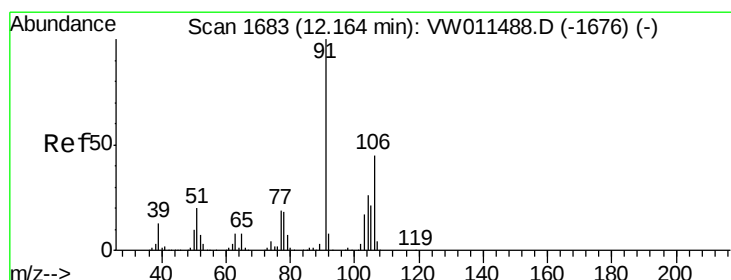
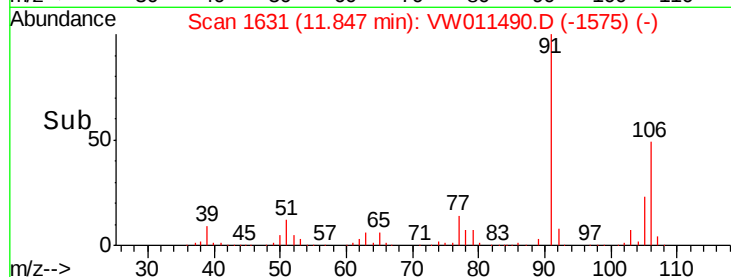
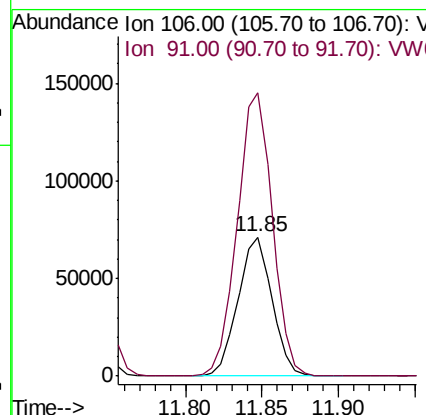
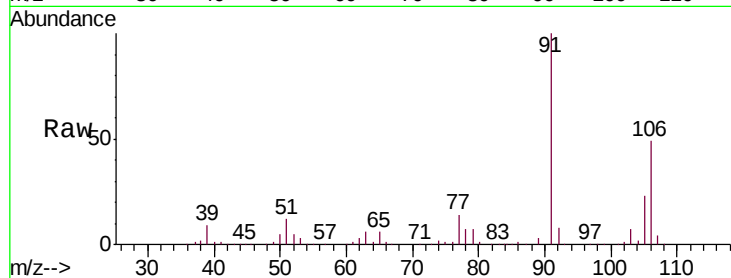




#54
m,p-Xylene
Concen: 9.991 ug/L
RT: 11.85 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

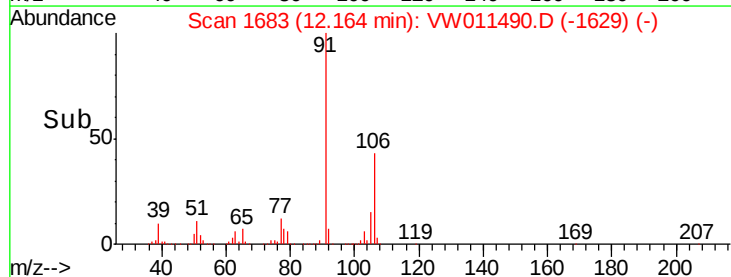
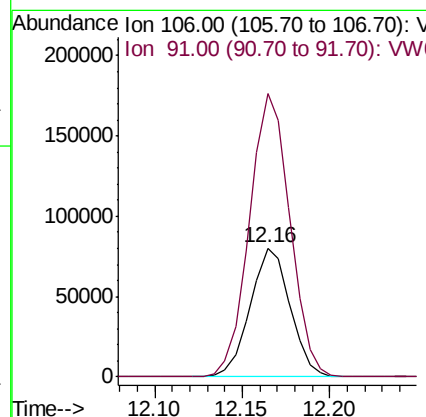
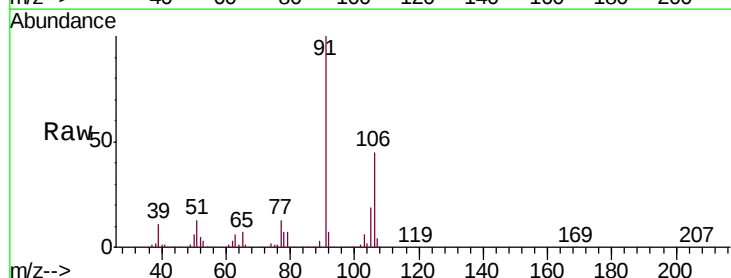
Instrument :
MSVOA_W
ClientSampled :
DB908

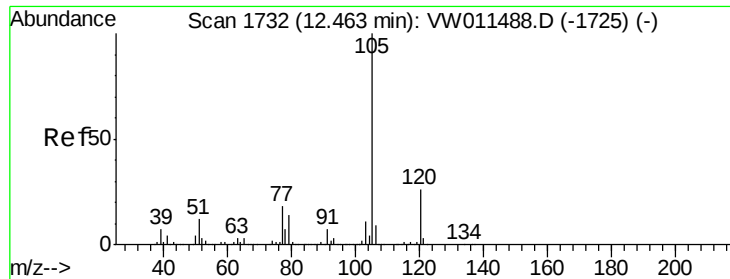
Tgt Ion:106 Resp: 110186
Ion Ratio Lower Upper
106 100
91 204.0 143.7 266.9



#55
o-xylene
Concen: 12.275 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011490.D
Acq: 25 Jul 2019 10:42

Tgt Ion:106 Resp: 127598
Ion Ratio Lower Upper
106 100
91 219.9 155.5 288.9





#57

Isopropylbenzene

Concen: 12.781 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011490.D

Acq: 25 Jul 2019 10:42

Instrument :

MSVOA_W

ClientSampleId :

DB908

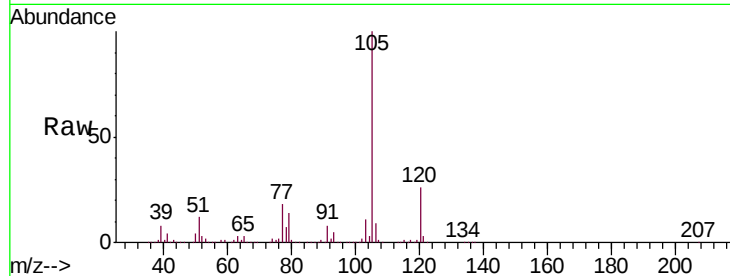
Tgt Ion: 105 Resp: 361867

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

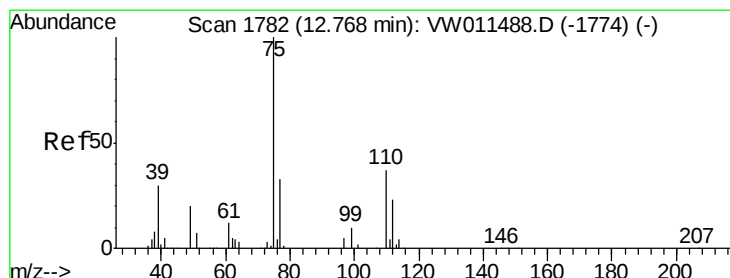
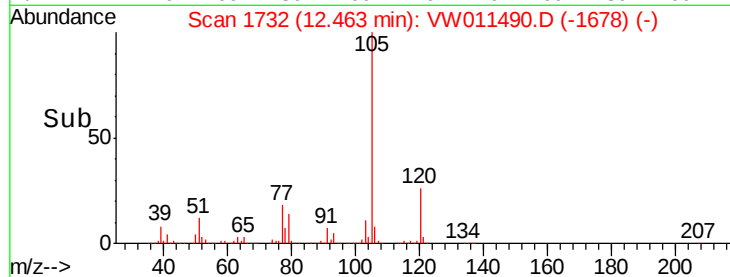
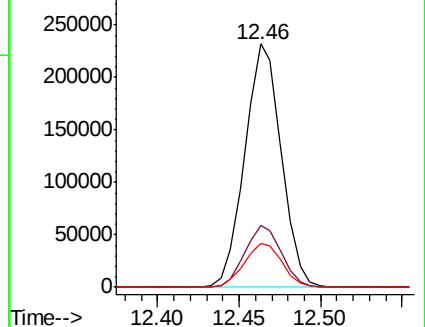
77 18.7 13.3 19.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 5.590 ug/L

RT: 13.55 min Scan# 1911

Delta R.T. 0.79 min

Lab File: VW011490.D

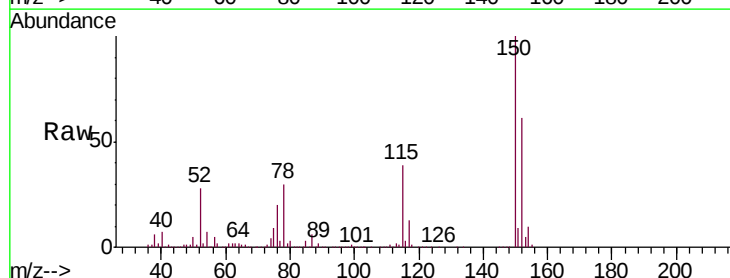
Acq: 25 Jul 2019 10:42

Tgt Ion: 75 Resp: 26029

Ion Ratio Lower Upper

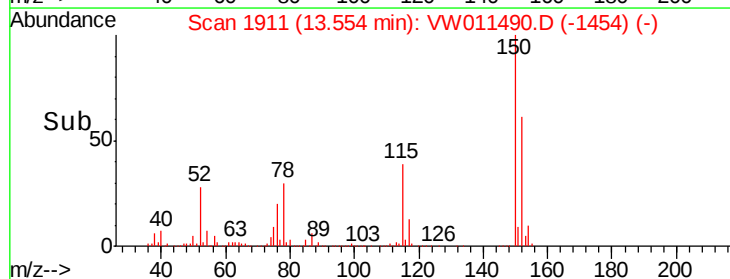
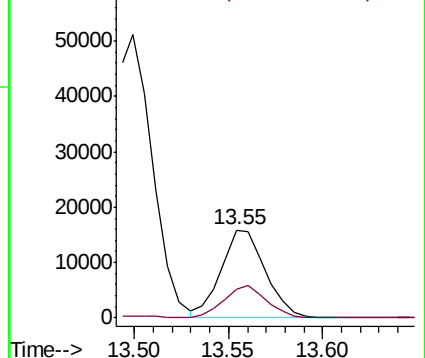
75 100

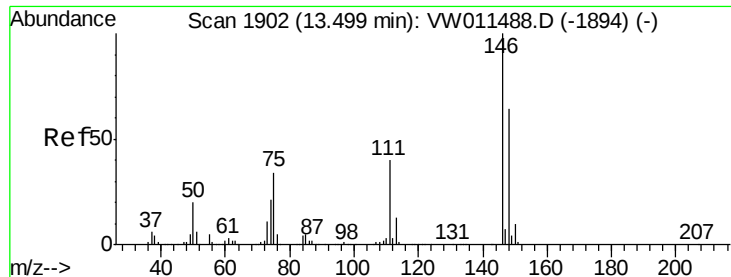
77 35.5 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

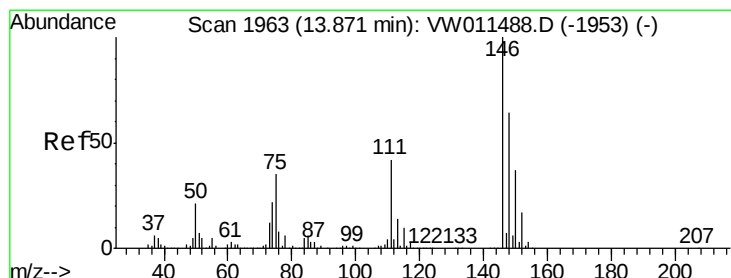
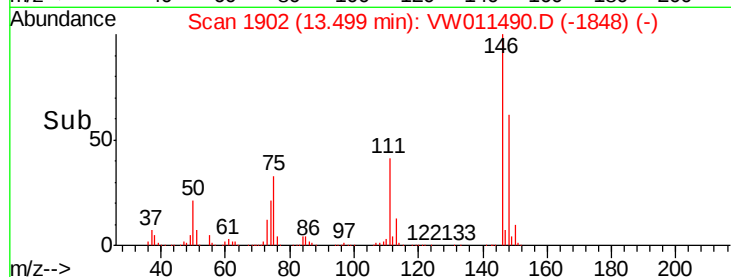
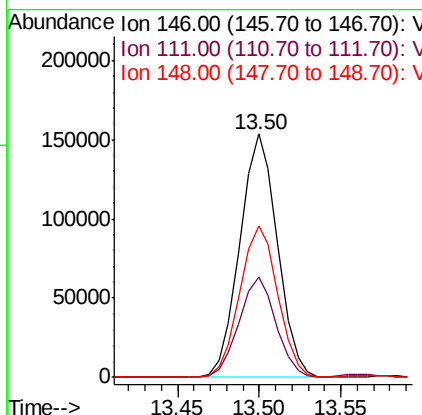
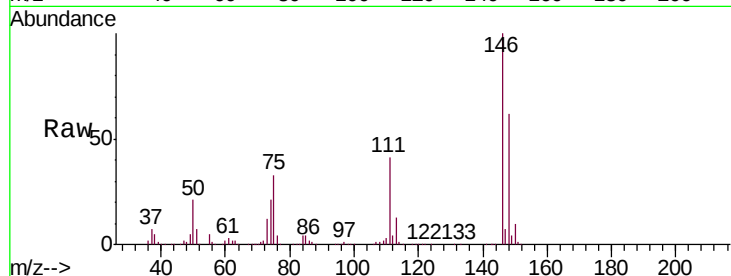




#63
 1,3-Dichlorobenzene
 Concen: 20.158 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011490.D
 Acq: 25 Jul 2019 10:42

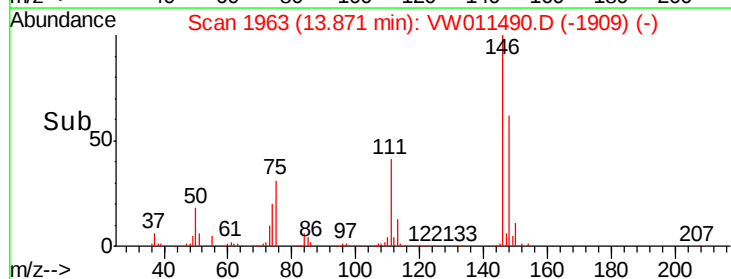
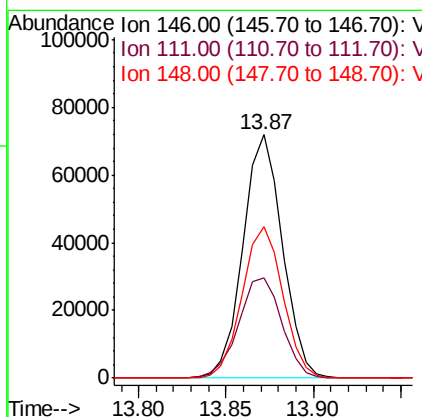
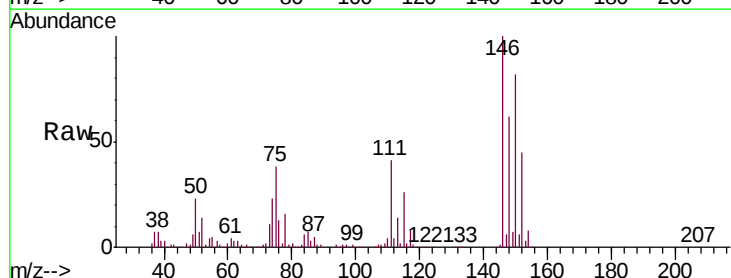
Instrument :
 MSVOA_W
 ClientSampleId :
 DB908

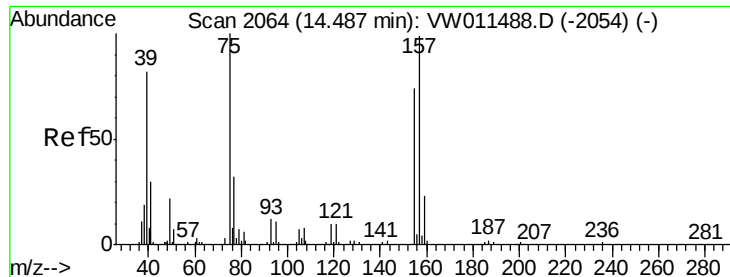
Tgt Ion:146 Resp: 246624
 Ion Ratio Lower Upper
 146 100
 111 41.0 29.0 53.8
 148 62.3 44.3 82.3



#65
 1,2-Dichlorobenzene
 Concen: 10.052 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011490.D
 Acq: 25 Jul 2019 10:42

Tgt Ion:146 Resp: 113159
 Ion Ratio Lower Upper
 146 100
 111 41.3 33.8 50.8
 148 62.4 51.6 77.4

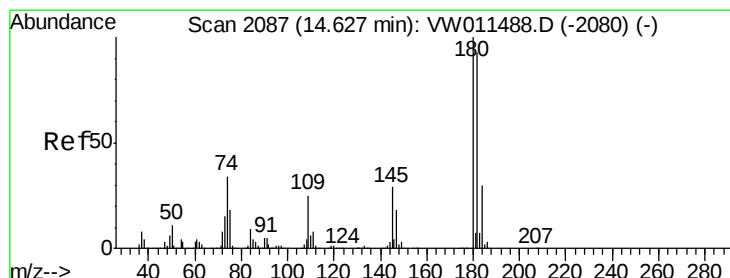
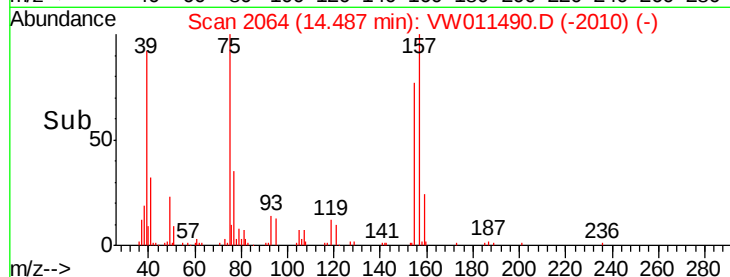
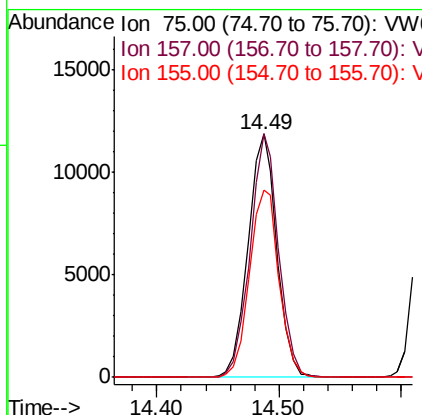
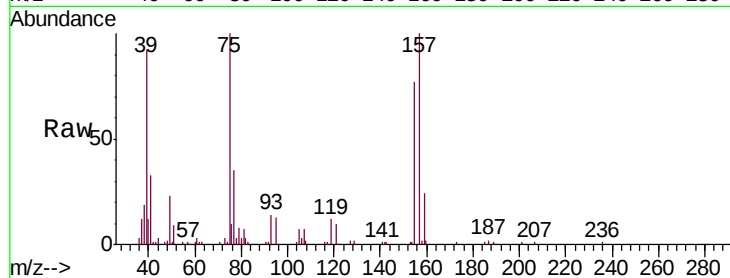




#66
 1,2-Dibromo-3-chloropropane
 Concen: 18.036 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011490.D
 Acq: 25 Jul 2019 10:42

Instrument :
 MSVOA_W
 ClientSampleId :
 DB908

Tgt Ion: 75 Resp: 19353
 Ion Ratio Lower Upper
 75 100
 157 99.9 73.7 110.5
 155 76.8 61.0 91.6



#67
 1,3,5-Trichlorobenzene
 Concen: 24.402 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW011490.D
 Acq: 25 Jul 2019 10:42

Tgt Ion: 180 Resp: 227742
 Ion Ratio Lower Upper
 180 100
 182 94.5 76.1 114.1
 184 30.1 24.7 37.1
 145 28.9 23.8 35.6

