

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052219\
 Data File : VW010511.D
 Acq On : 22 May 2019 15:37
 Operator : SY/VA
 Sample : K3002-04
 Misc : 5.02G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 21-C1-20190391

Quant Time: May 23 06:57:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

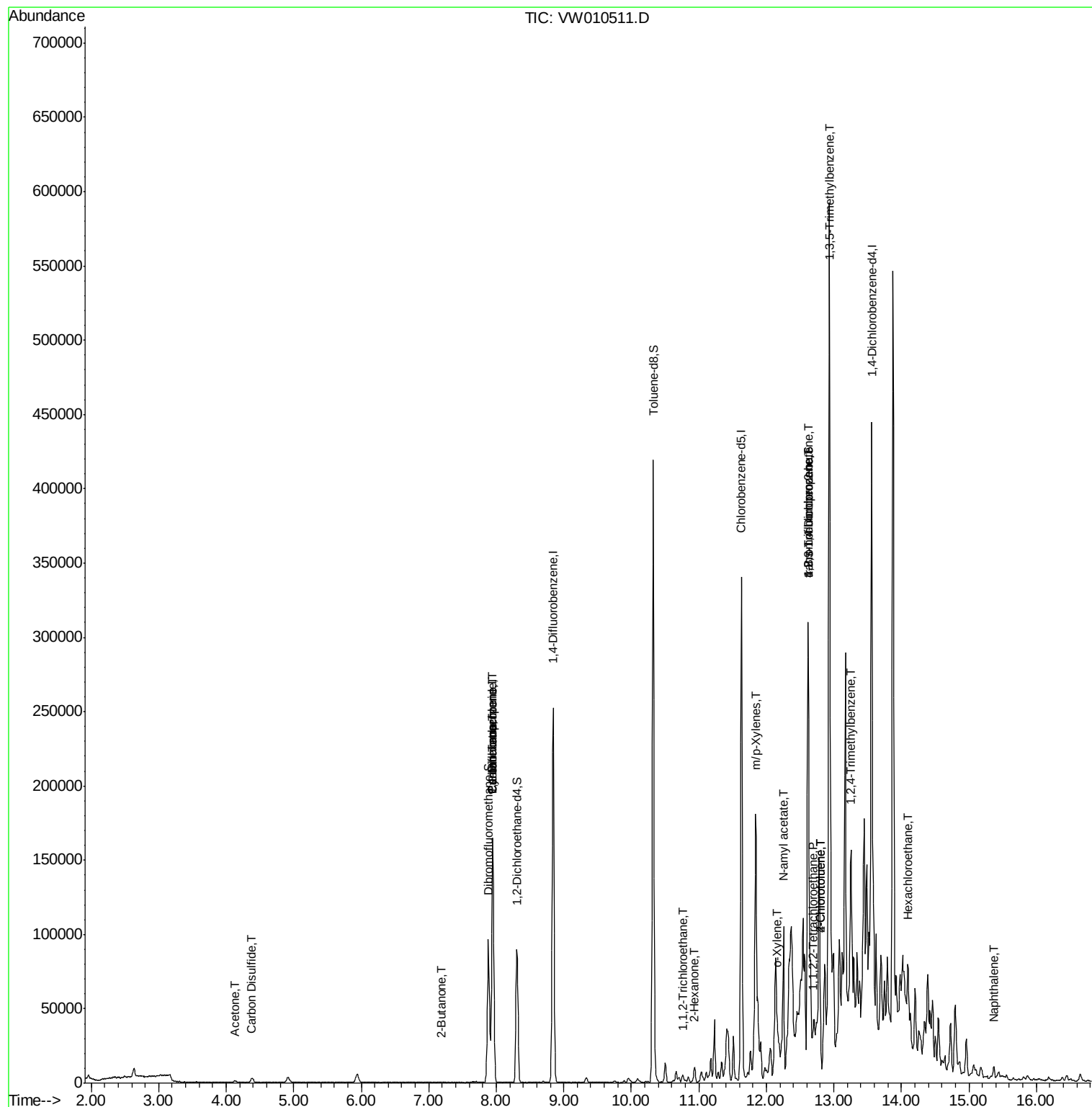
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	118691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	224665	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	200408	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	90495	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	70484	57.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.06%	
35) Dibromofluoromethane	7.88	113	69111	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
50) Toluene-d8	10.32	98	278392	53.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.92%	
62) 4-Bromofluorobenzene	12.62	95	103421	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	21	Below Cal	#	42
13) Acrolein	3.90	56	81	Below Cal	#	44
16) Acetone	4.13	43	2330	9.317	ug/l	100
17) Carbon Disulfide	4.38	76	5004	1.338	ug/l	100
20) Methylene Chloride	4.92	84	2991	Below Cal		94
25) 2-Butanone	7.18	43	506	1.414	ug/l #	45
31) Cyclohexane	7.94	56	2453	1.055	ug/l #	11
36) 1,1-Dichloropropene	7.95	75	9608	4.591	ug/l #	49
38) Carbon Tetrachloride	7.95	117	13478	5.970	ug/l #	15
55) 1,1,2-Trichloroethane	10.76	97	1907	1.641	ug/l #	21
59) 2-Hexanone	10.93	43	3977	6.188	ug/l #	25
68) m/p-Xylenes	11.83	106	5591	1.890	ug/l	94
69) o-Xylene	12.16	106	3571	1.274	ug/l	92
74) N-amyl acetate	12.26	43	19617	11.921	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.68	83	1805	1.382	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	47668	51.893	ug/l #	1
79) 2-Chlorotoluene	12.80	91	5136	1.058	ug/l	78
80) 1,3,5-Trimethylbenzene	12.94	105	33475	5.504	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	47668	108.302	ug/l #	14
82) 4-Chlorotoluene	12.80	91	5111	1.015	ug/l	78
84) 1,2,4-Trimethylbenzene	13.26	105	64240	10.605	ug/l	100
90) Hexachloroethane	14.10	117	1858	1.426	ug/l #	15
95) Naphthalene	15.37	128	7809	1.903	ug/l	99

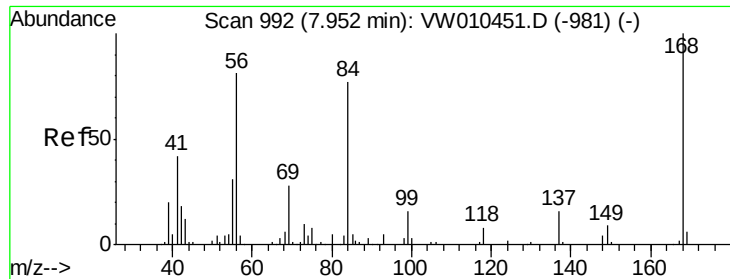
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Instrument :

MSVOA_W

ClientSampleId :

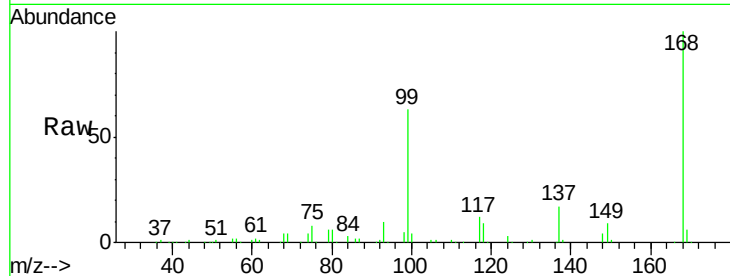
21-C1-20190391

Tot Ion:168 Resp: 118691

Ion Ratio Lower Upper

168 100

99 63.3 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

50000

40000

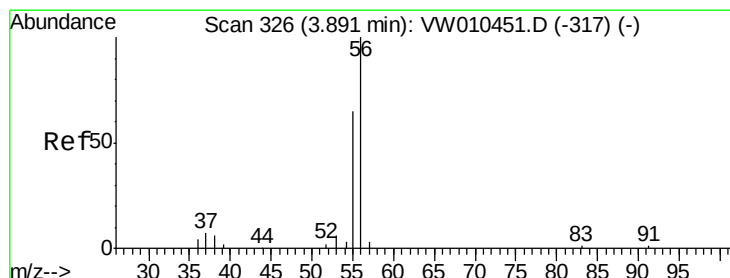
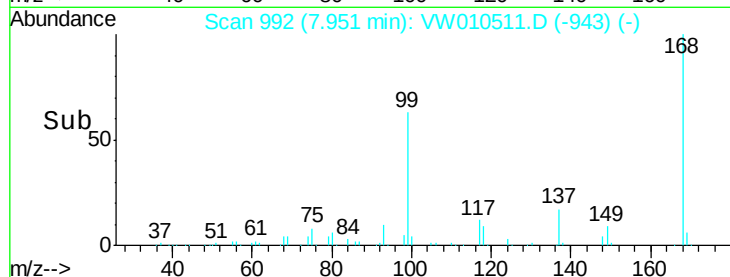
30000

20000

10000

0

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW010511.D

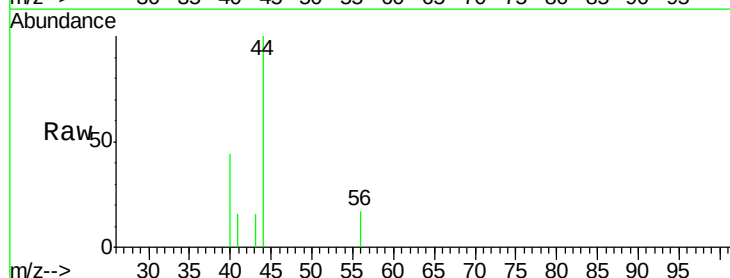
Acq: 22 May 2019 15:37

Tgt Ion: 56 Resp: 81

Ion Ratio Lower Upper

56 100

55 25.9 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.90

80

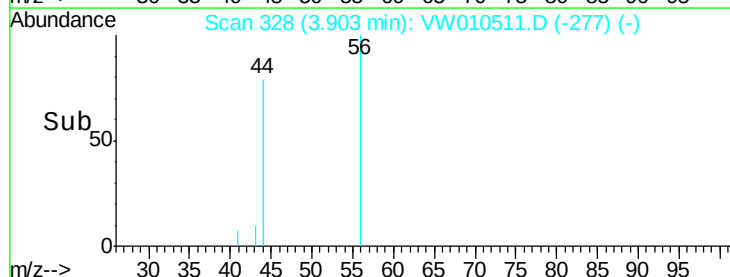
60

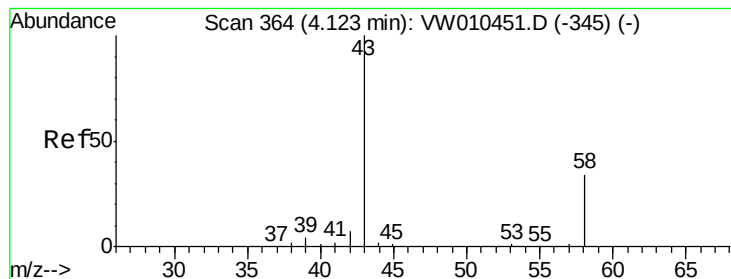
40

20

0

Time-->





#16

Acetone

Concen: 9.317 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Instrument :

MSVOA_W

ClientSampleId :

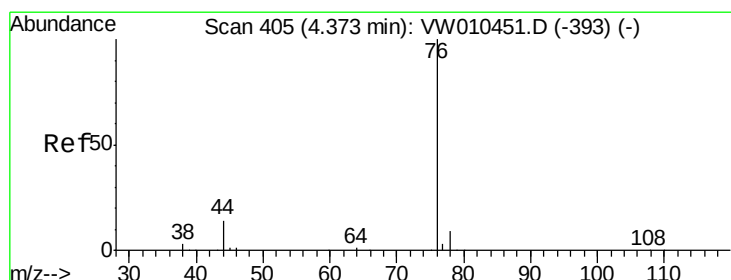
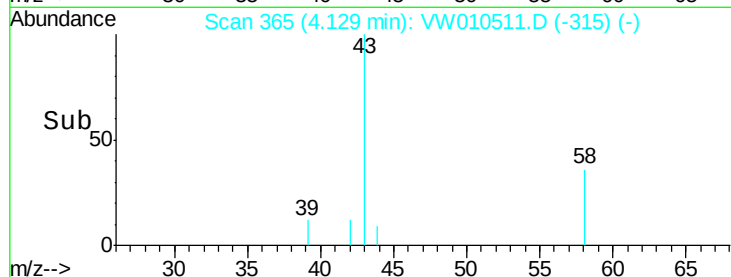
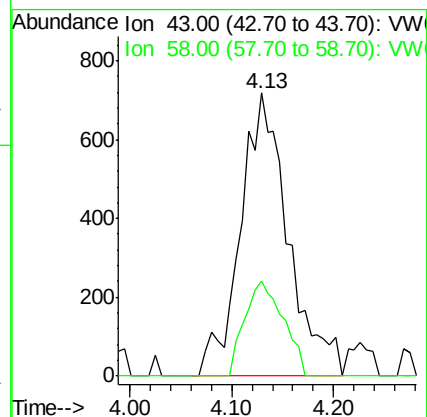
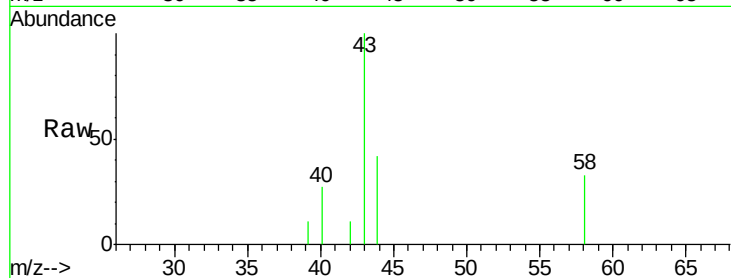
21-C1-20190391

Tot Ion: 43 Resp: 2330

Ion Ratio Lower Upper

43 100

58 33.4 27.0 40.4



#17

Carbon Disulfide

Concen: 1.338 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW010511.D

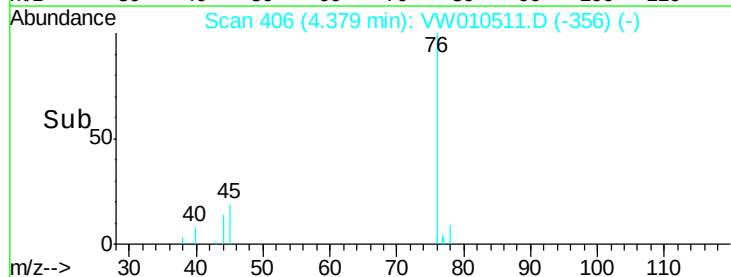
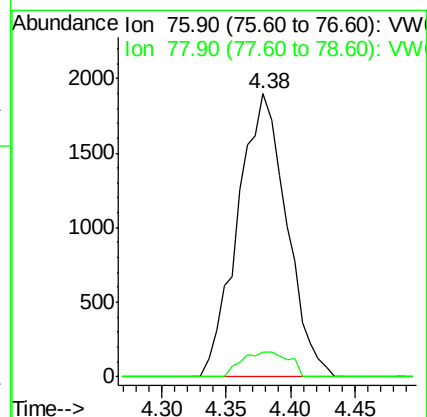
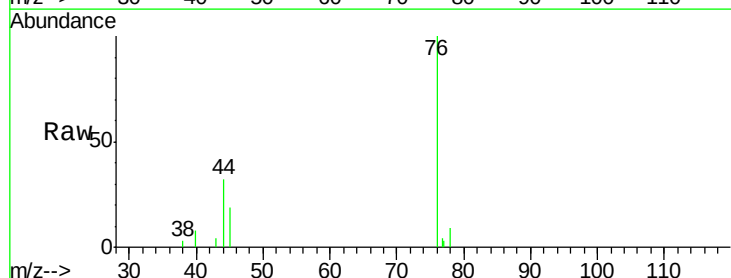
Acq: 22 May 2019 15:37

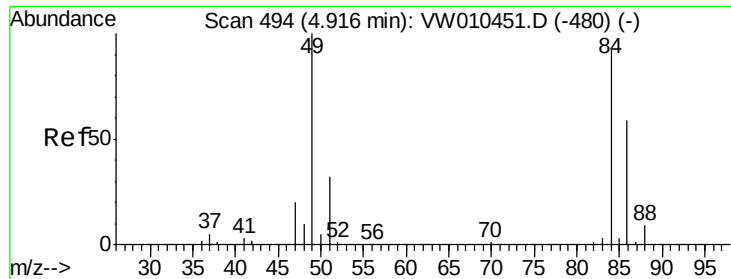
Tgt Ion: 76 Resp: 5004

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



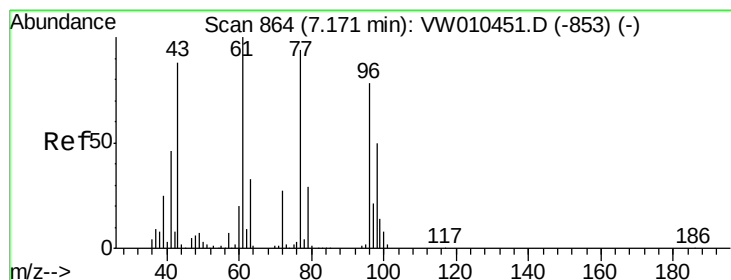
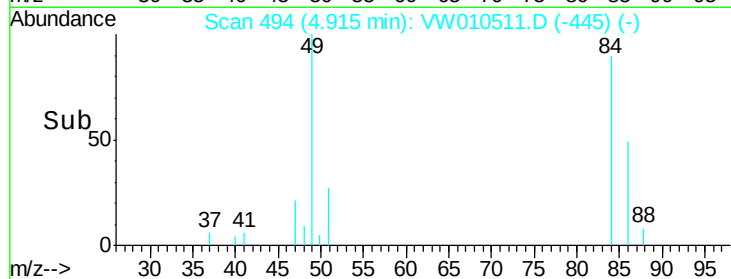
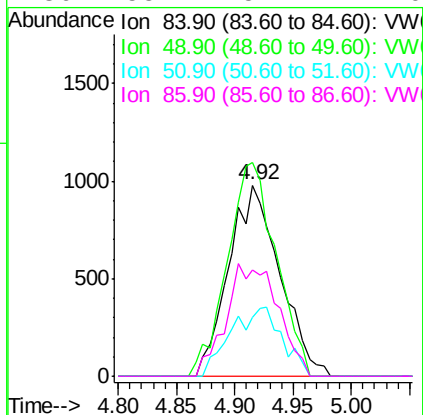
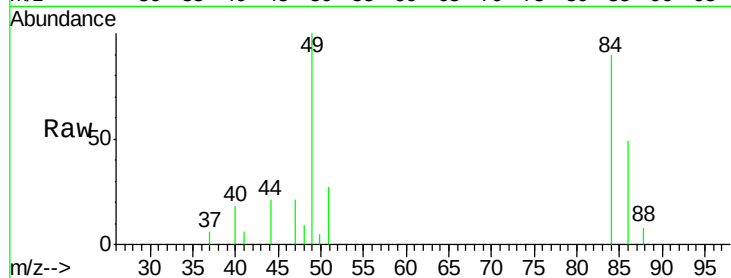


#20
Methvlene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

Tot Ion: 84 Resp: 2991

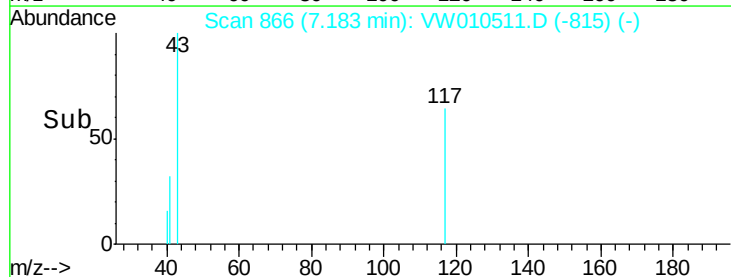
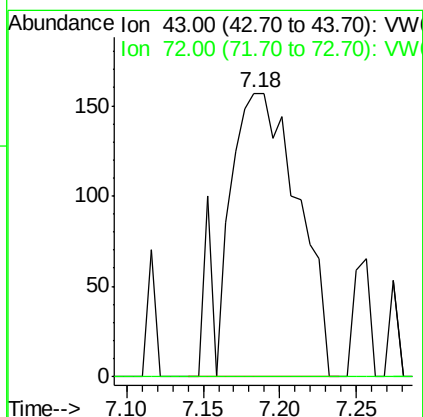
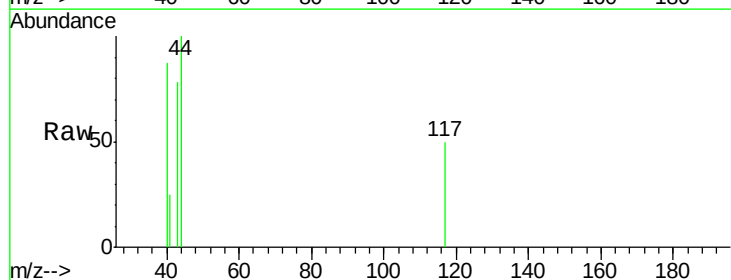
Ion	Ratio	Lower	Upper
84	100		
49	111.6	87.2	130.8
51	30.7	27.7	41.5
86	55.2	51.4	77.0

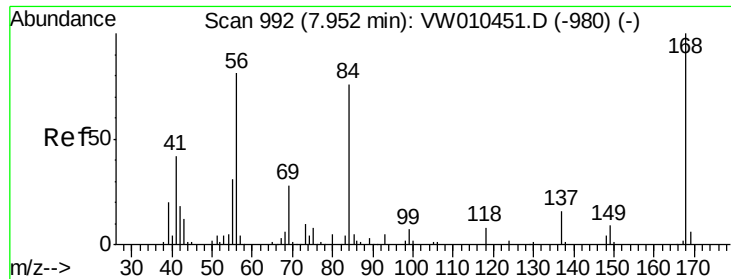


#25
2-Butanone
Concen: 1.414 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion: 43 Resp: 506

Ion	Ratio	Lower	Upper
43	100		
72	0.0	24.1	36.1#

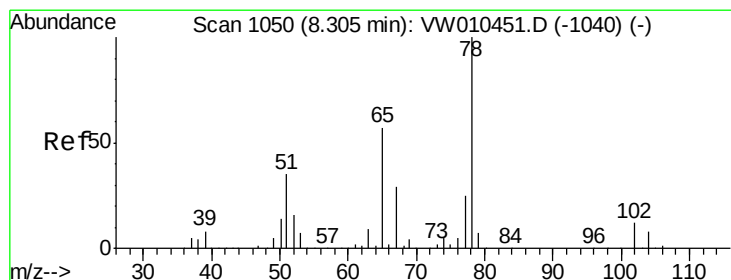
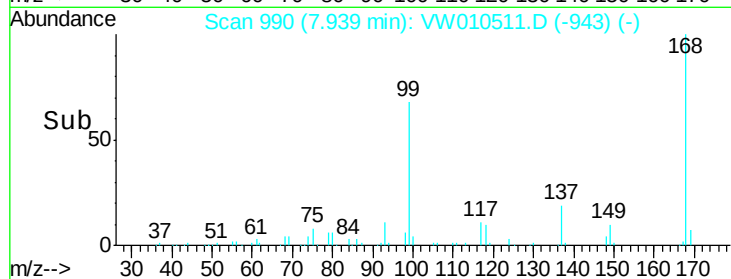
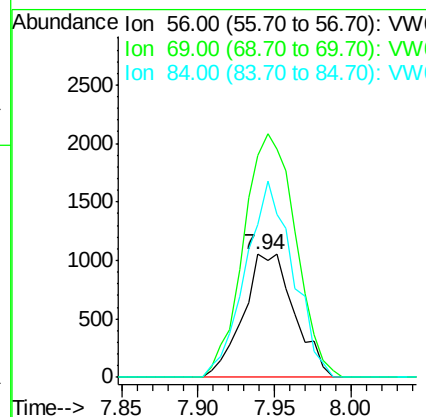
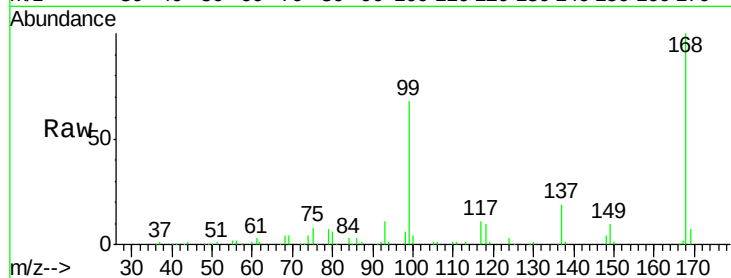




#31
Cyclohexane
Concen: 1.055 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

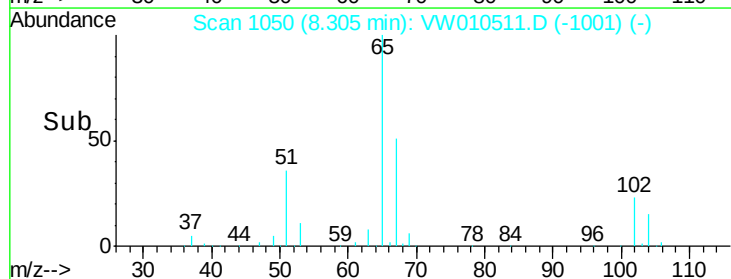
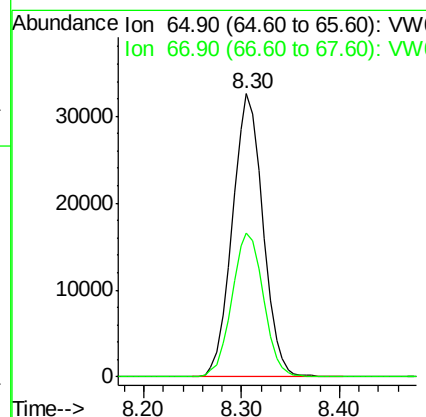
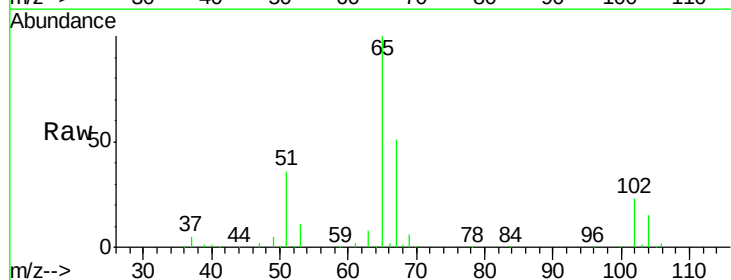
Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

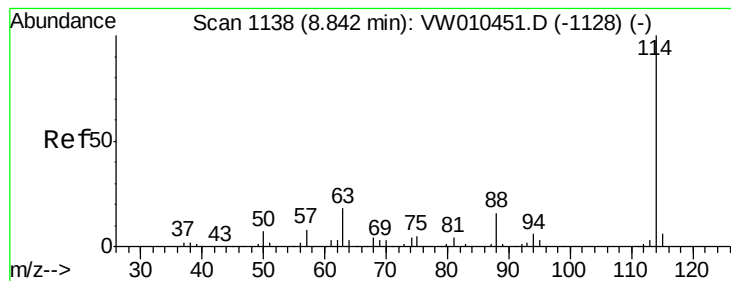
Tot Ion: 56 Resp: 2453
Ion Ratio Lower Upper
56 100
69 179.9 28.2 42.2#
84 124.0 75.8 113.8#



#33
1,2-Dichloroethane-d4
Concen: 57.534 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion: 65 Resp: 70484
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Instrument :

MSVOA_W

ClientSampleId :

21-C1-20190391

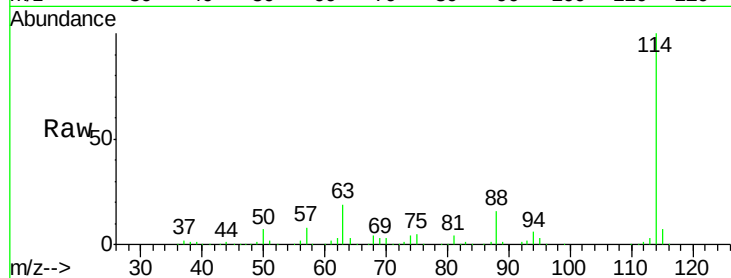
Tot Ion:114 Resp: 224665

Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.0

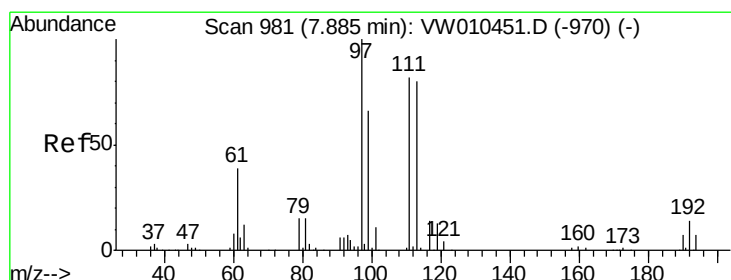
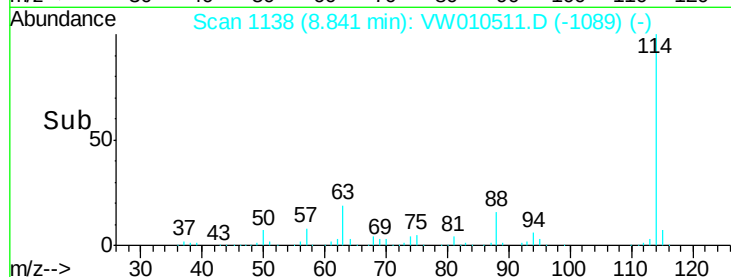
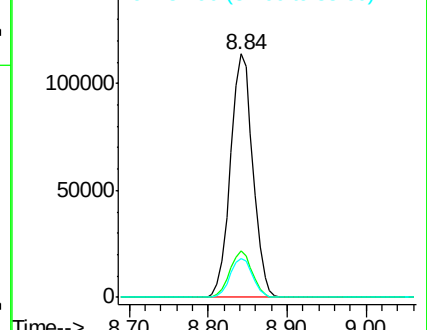
88 15.7 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.697 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

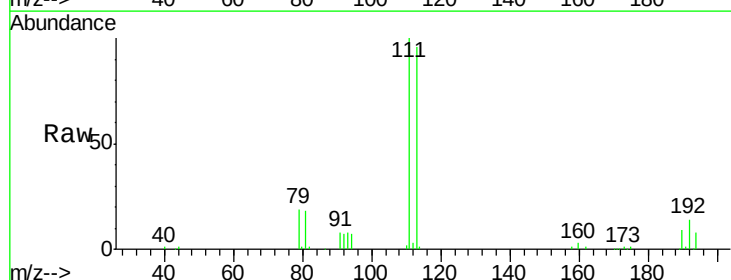
Tgt Ion:113 Resp: 69111

Ion Ratio Lower Upper

113 100

111 105.3 82.2 123.4

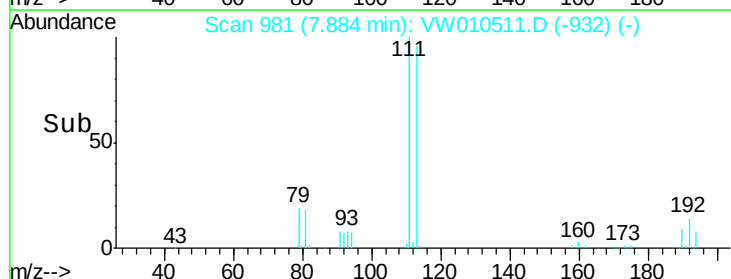
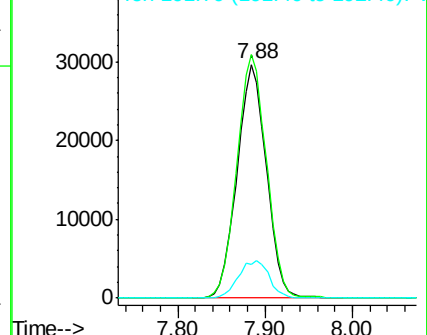
192 16.7 14.3 21.5

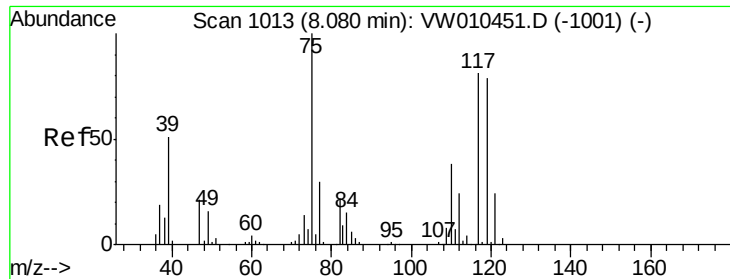


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.591 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Instrument :

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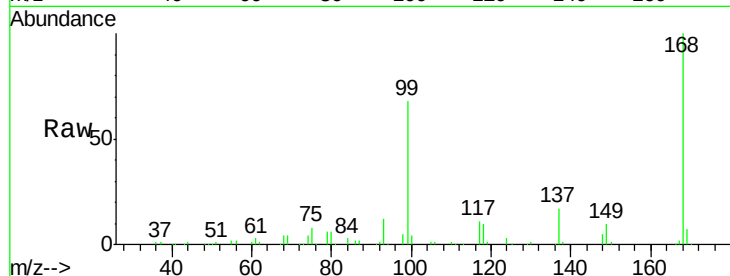
Tot Ion: 75 Resp: 9608

Ion Ratio Lower Upper

75 100

110 10.2 19.2 57.6#

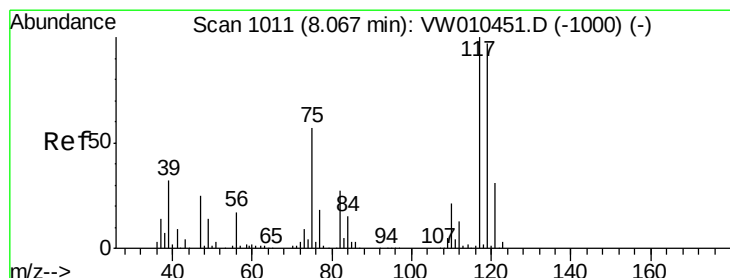
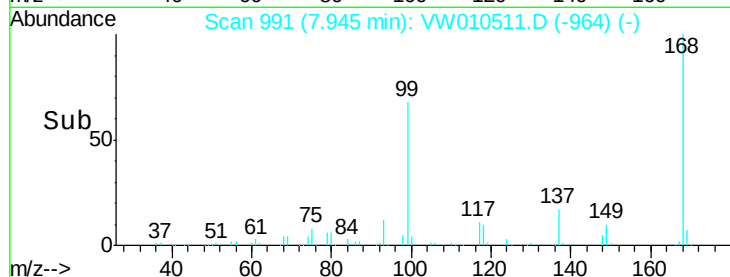
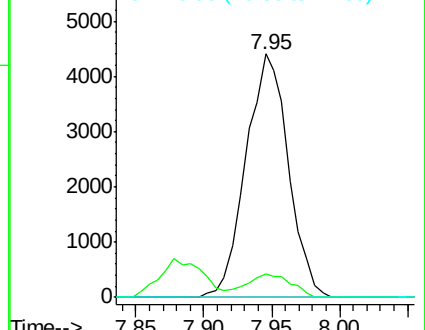
77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 5.970 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

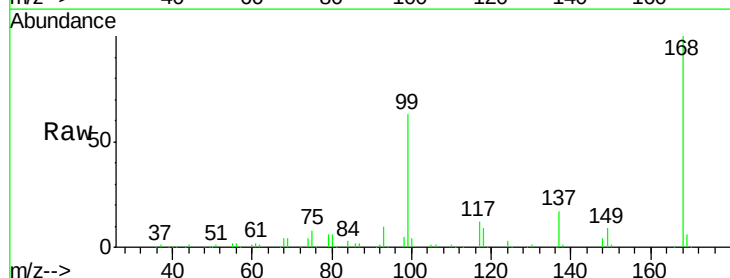
Tgt Ion: 117 Resp: 13478

Ion Ratio Lower Upper

117 100

119 4.1 77.4 116.0#

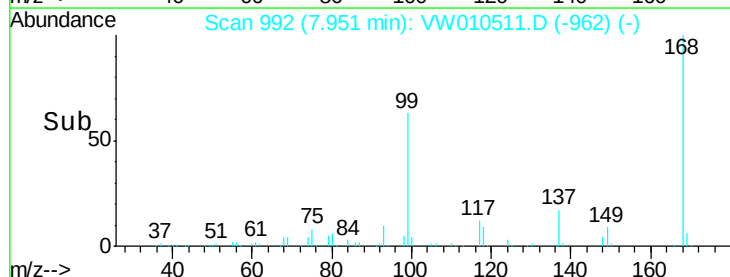
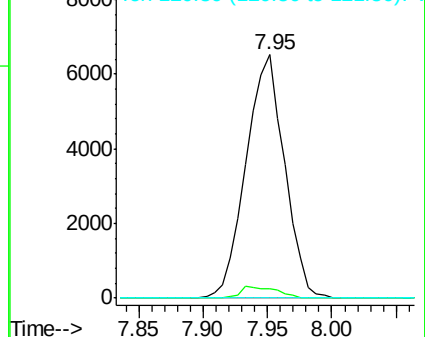
121 0.0 25.0 37.6#

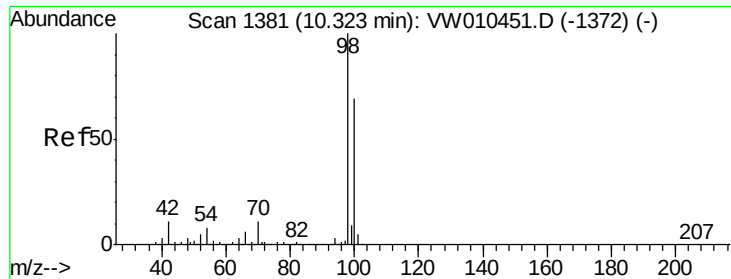


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 53.456 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Instrument :

MSVOA_W

ClientSampleId :

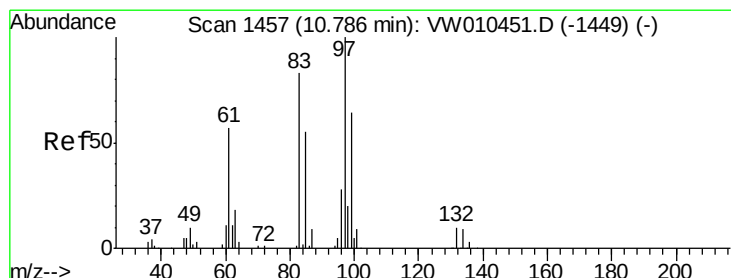
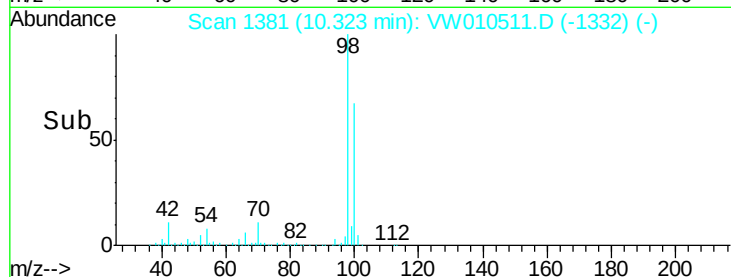
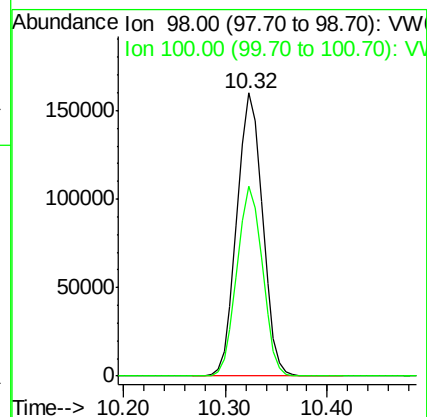
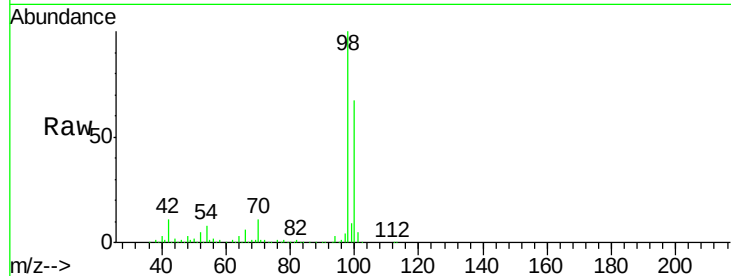
21-C1-20190391

Tot Ion: 98 Resp: 278392

Ion Ratio Lower Upper

98 100

100 66.7 53.7 80.5



#55

1,1,2-Trichloroethane

Concen: 1.641 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Tgt Ion: 97 Resp: 1907

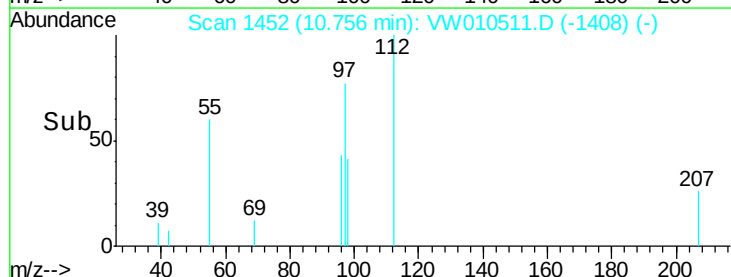
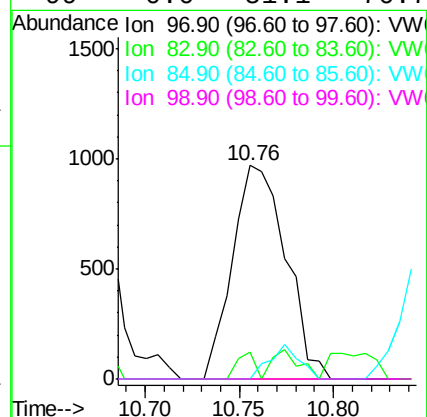
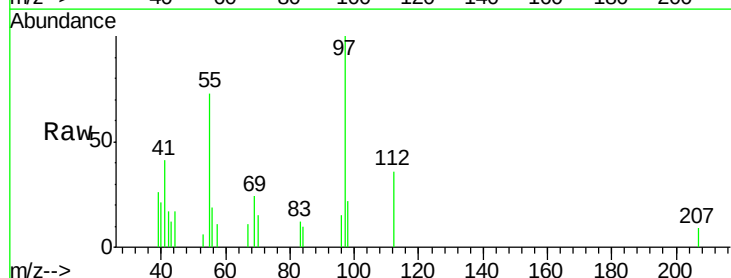
Ion Ratio Lower Upper

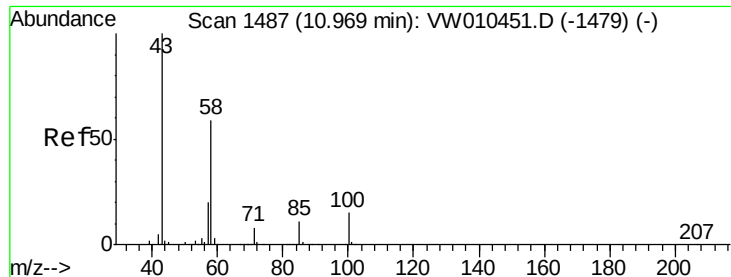
97 100

83 12.4 66.1 99.1#

85 0.0 44.2 66.4#

99 0.0 51.1 76.7#

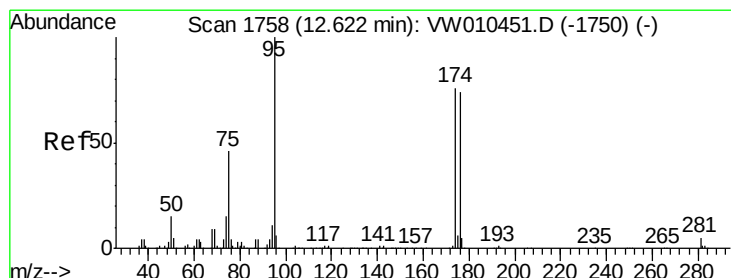
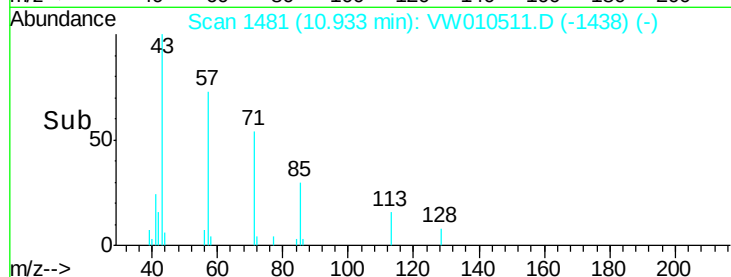
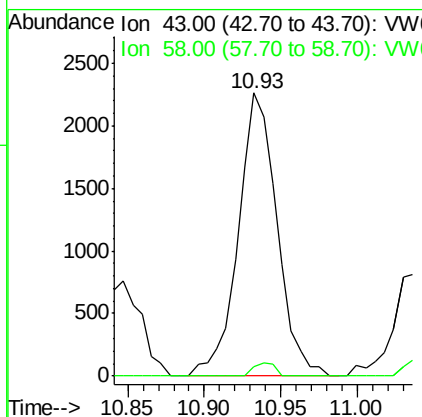
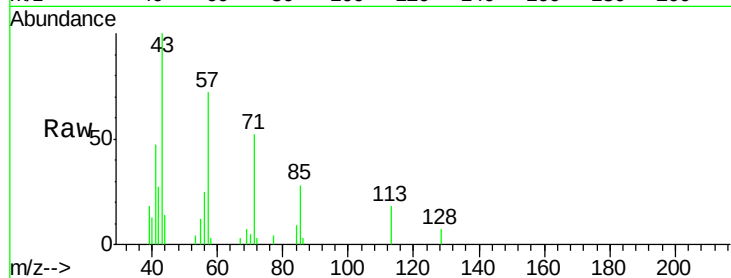




#59
2-Hexanone
Concen: 6.188 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

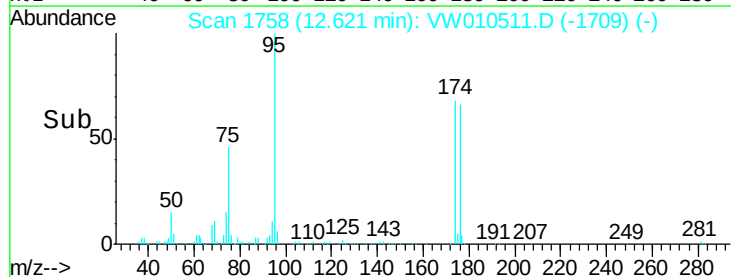
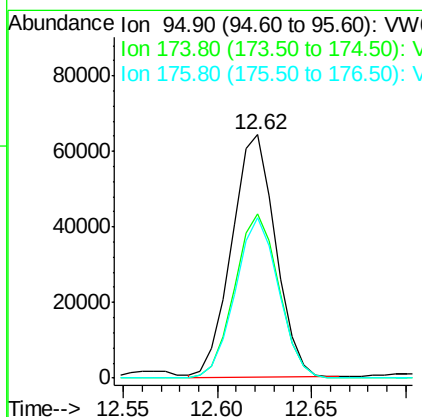
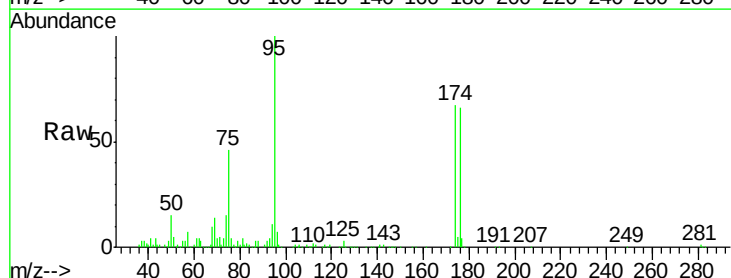
Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

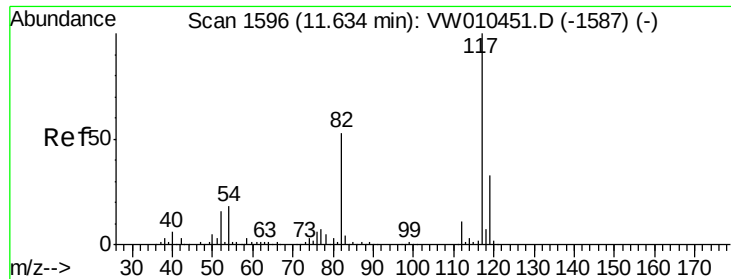
Tot Ion: 43 Resp: 3977
Ion Ratio Lower Upper
43 100
58 2.5 28.9 86.8#



#62
4-Bromofluorobenzene
Concen: 49.857 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion: 95 Resp: 103421
Ion Ratio Lower Upper
95 100
174 68.4 0.0 148.6
176 65.5 0.0 144.2

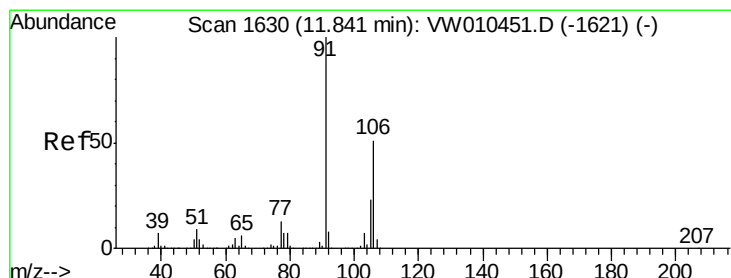
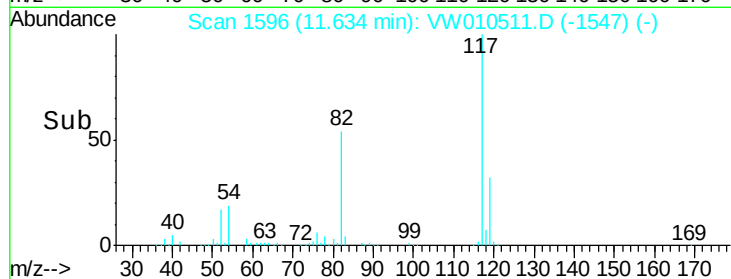
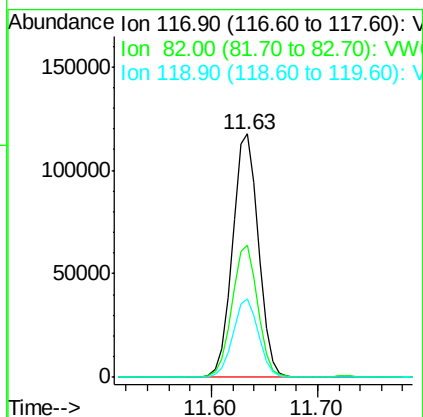
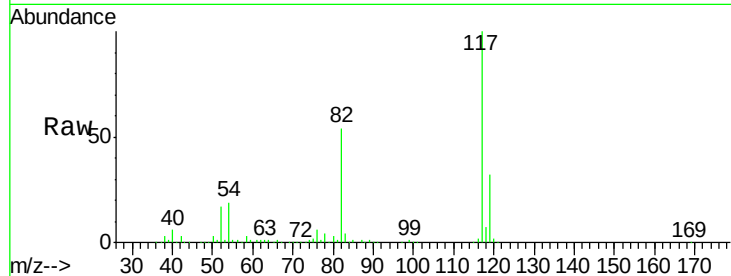




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

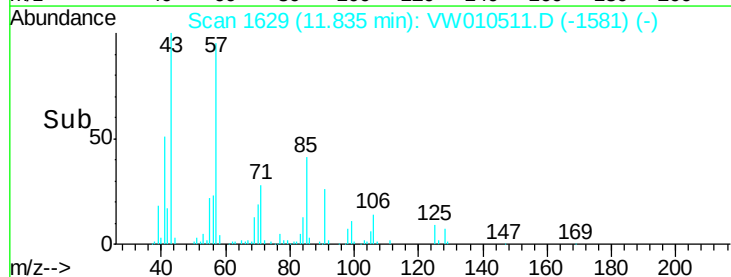
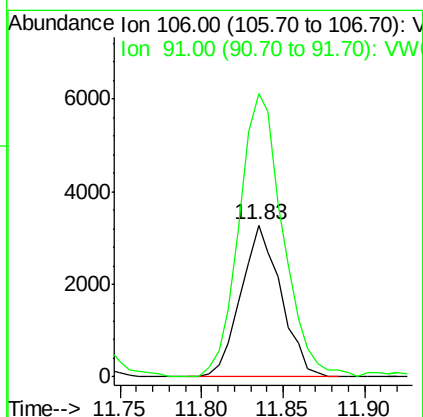
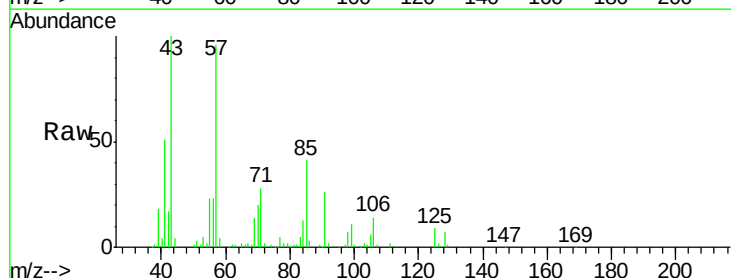
Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

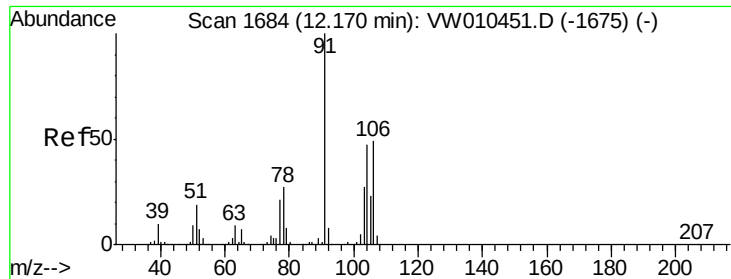
Tot Ion:117 Resp: 200408
Ion Ratio Lower Upper
117 100
82 54.0 42.8 64.2
119 32.4 26.3 39.5



#68
m/p-Xylenes
Concen: 1.890 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion:106 Resp: 5591
Ion Ratio Lower Upper
106 100
91 204.3 156.0 234.0

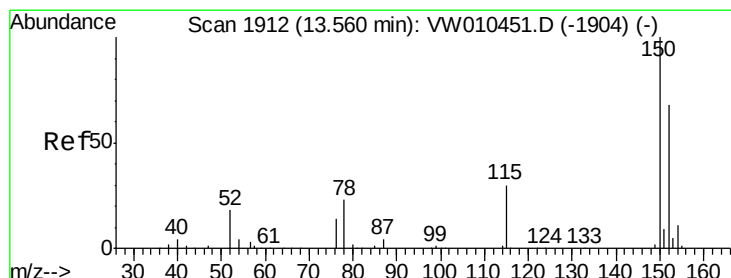
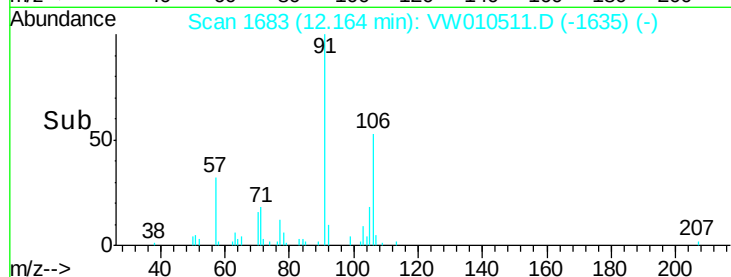
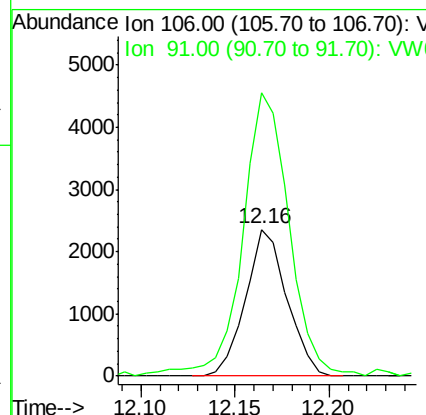
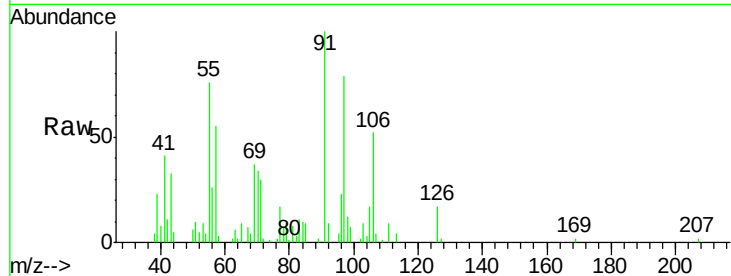




#69
o-Xylene
Concen: 1.274 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

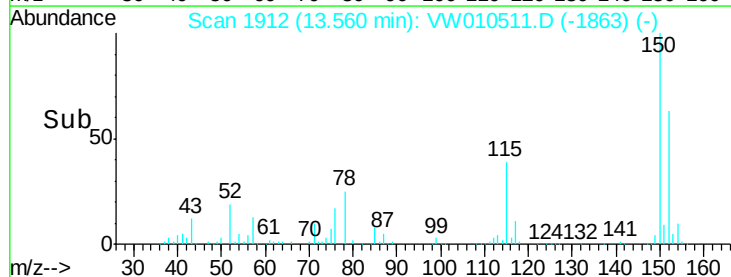
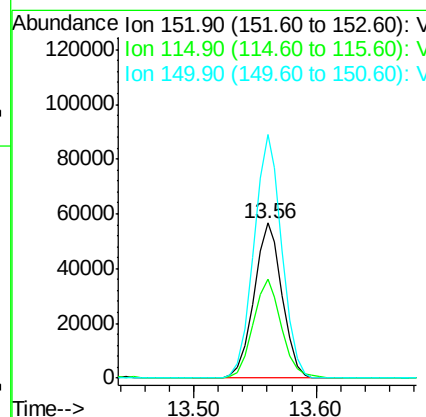
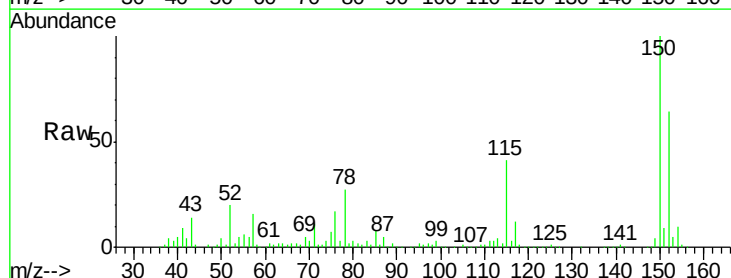
Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

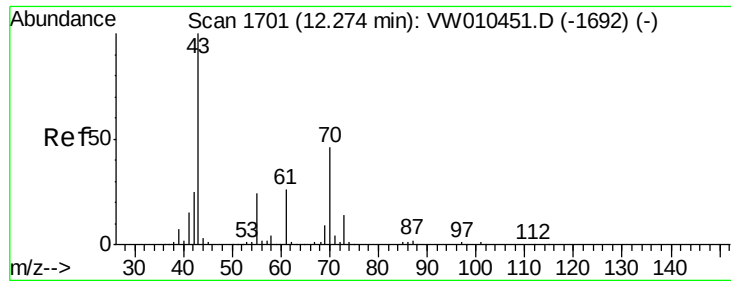
Tot Ion:106 Resp: 3571
Ion Ratio Lower Upper
106 100
91 218.1 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion:152 Resp: 90495
Ion Ratio Lower Upper
152 100
115 64.4 30.3 91.0
150 155.3 0.0 349.8

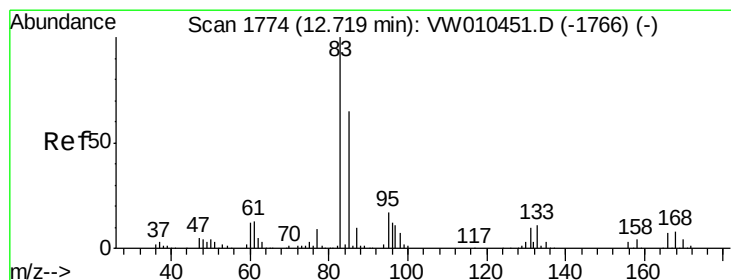
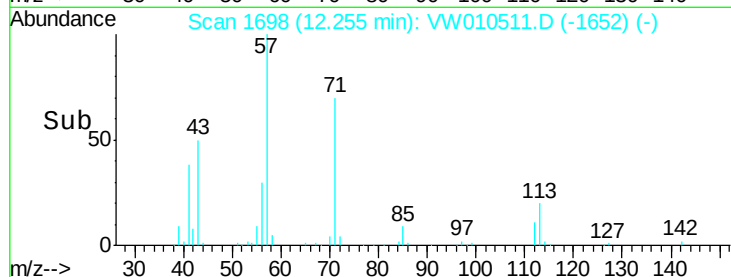
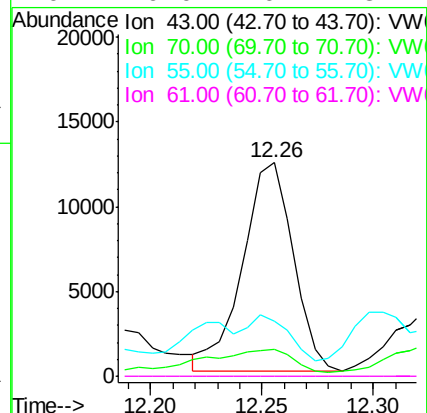
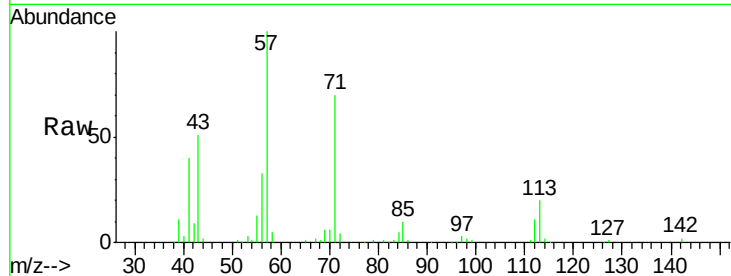




#74
N-amyl acetate
Concen: 11.921 ug/l
RT: 12.26 min Scan# 1698
Delta R.T. -0.02 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

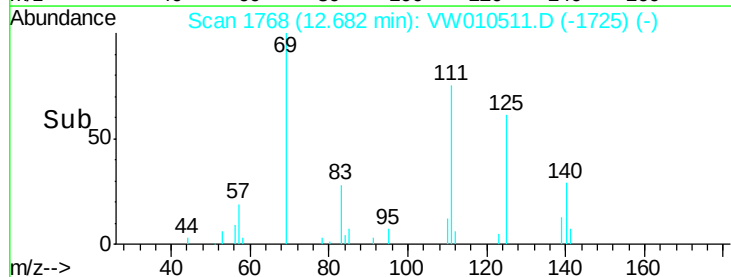
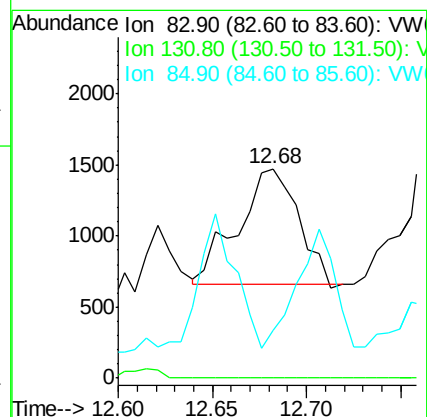
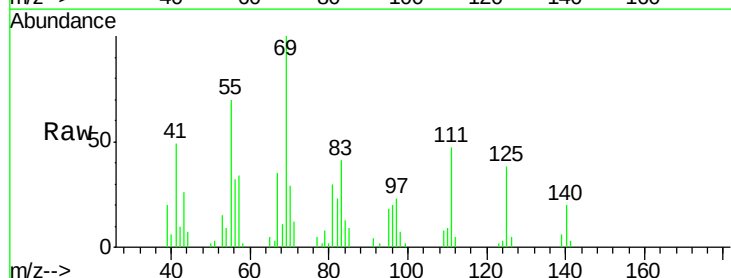
Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

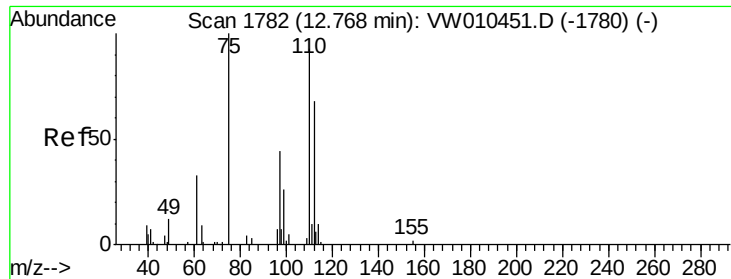
Tot Ion:	43	Resp:	19617
Ion	Ratio	Lower	Upper
43	100		
70	19.7	37.1	55.7#
55	14.2	19.6	29.4#
61	0.0	20.7	31.1#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.382 ug/l
RT: 12.68 min Scan# 1768
Delta R.T. -0.04 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion:	83	Resp:	1805
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.6	16.8#
85	0.0	32.4	97.0#





#76

1,2,3-Trichloropropane

Concen: 51.893 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010511.D

Acq: 22 May 2019 15:37

Instrument :

MSVOA_W

ClientSampleId :

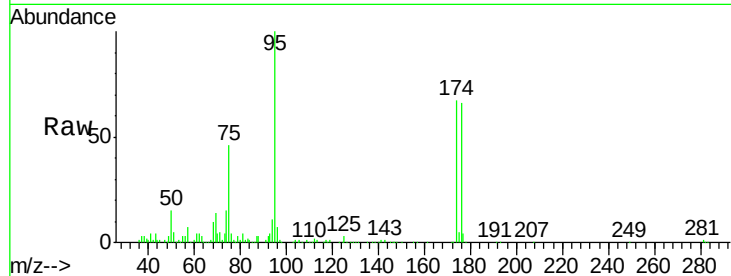
21-C1-20190391

Tot Ion: 75 Resp: 47668

Ion Ratio Lower Upper

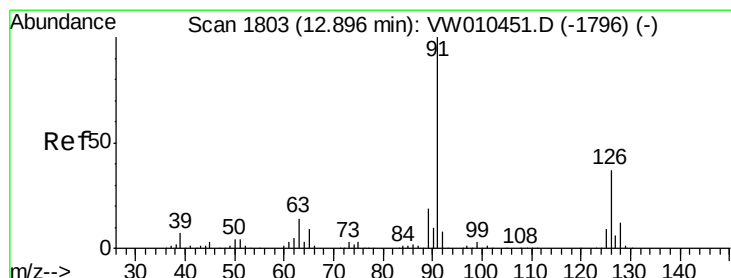
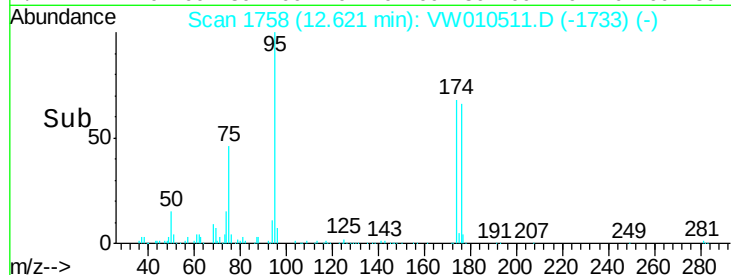
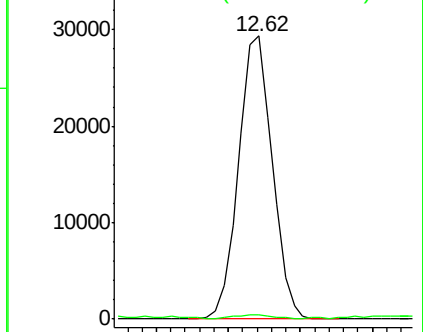
75 100

77 1.5 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#79

2-Chlorotoluene

Concen: 1.058 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.09 min

Lab File: VW010511.D

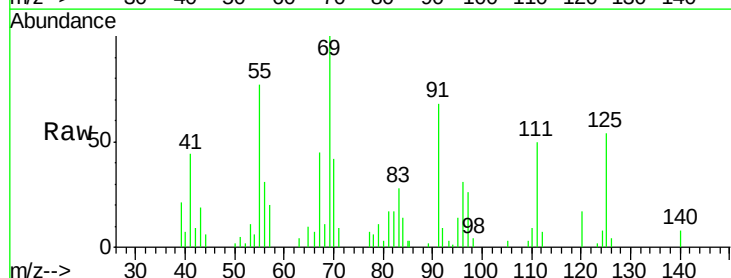
Acq: 22 May 2019 15:37

Tgt Ion: 91 Resp: 5136

Ion Ratio Lower Upper

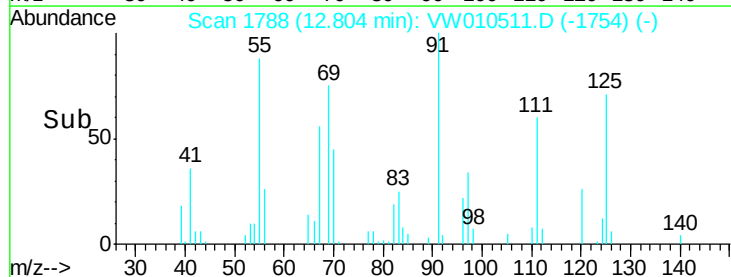
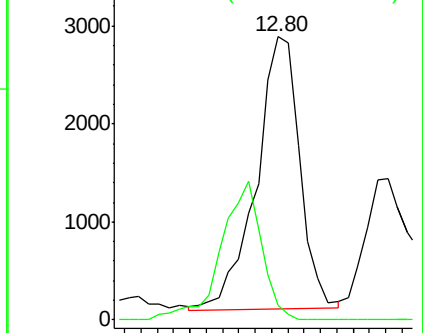
91 100

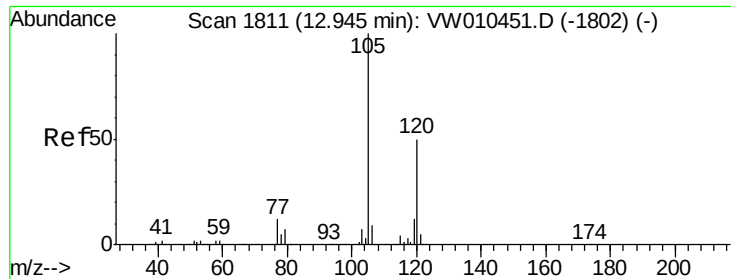
126 47.6 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

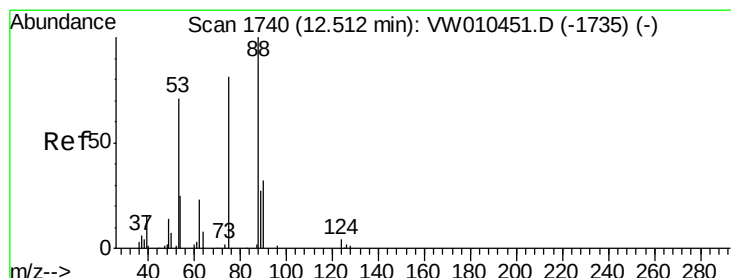
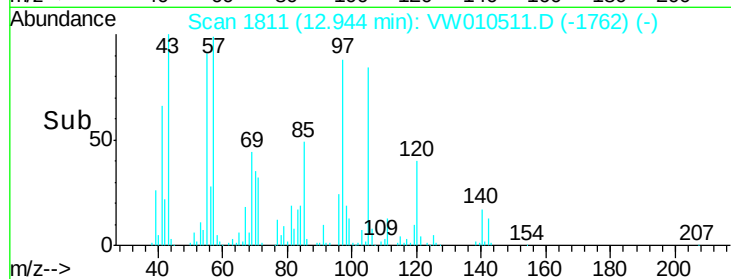
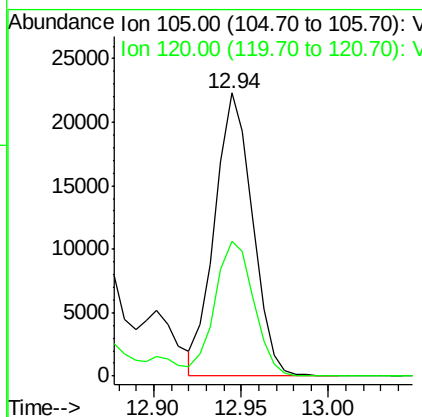
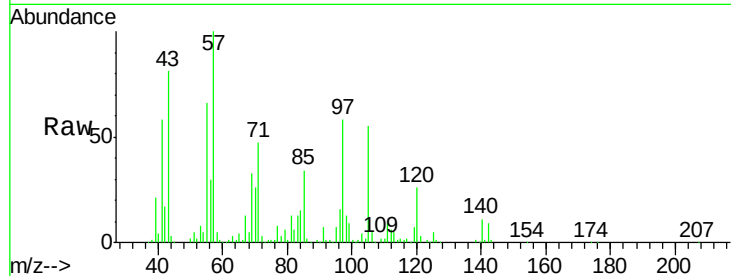




#80
 1,3,5-Trimethylbenzene
 Concen: 5.504 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010511.D
 Acq: 22 May 2019 15:37

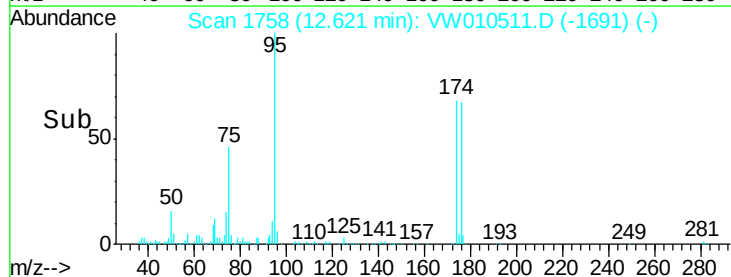
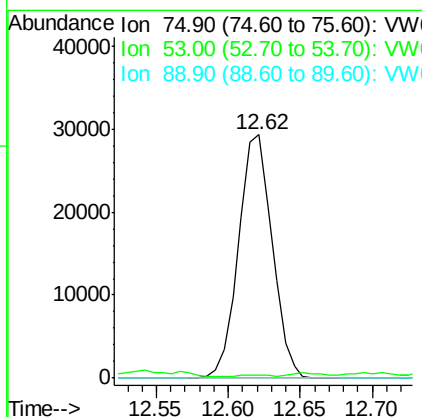
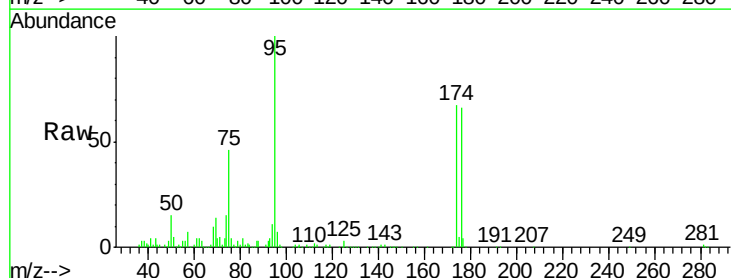
Instrument :
 MSVOA_W
 ClientSampleId :
 21-C1-20190391

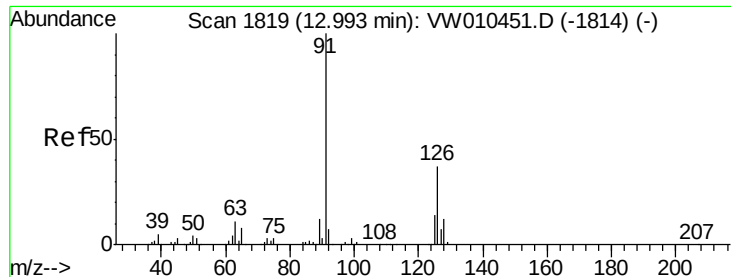
Tot Ion:105 Resp: 33475
 Ion Ratio Lower Upper
 105 100
 120 48.9 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.302 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010511.D
 Acq: 22 May 2019 15:37

Tgt Ion: 75 Resp: 47668
 Ion Ratio Lower Upper
 75 100
 53 0.5 69.8 104.8#
 89 0.1 39.5 59.3#

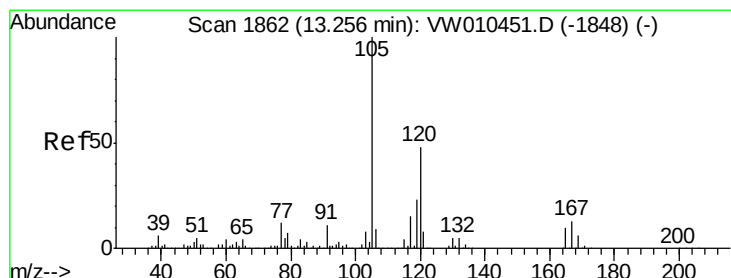
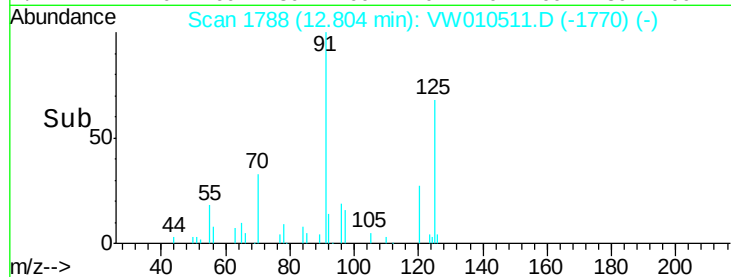
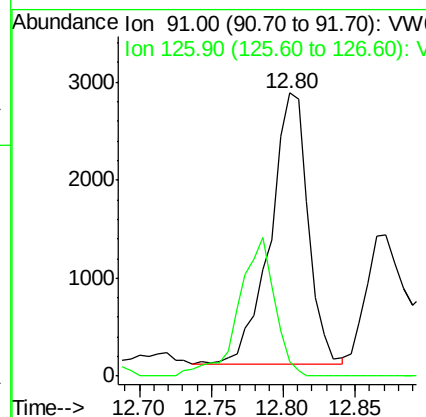
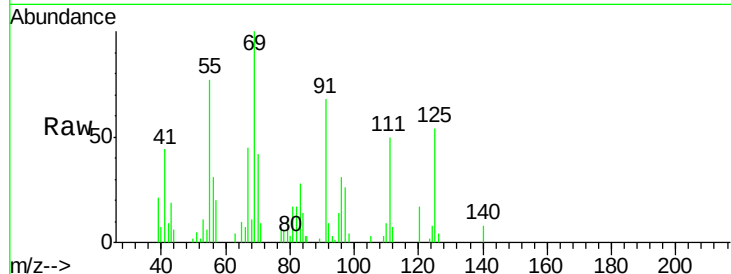




#82
 4-Chlorotoluene
 Concen: 1.015 ug/l
 RT: 12.80 min Scan# 1788
 Delta R.T. -0.19 min
 Lab File: VW010511.D
 Acq: 22 May 2019 15:37

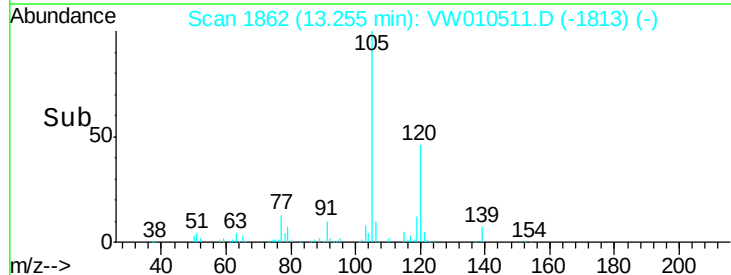
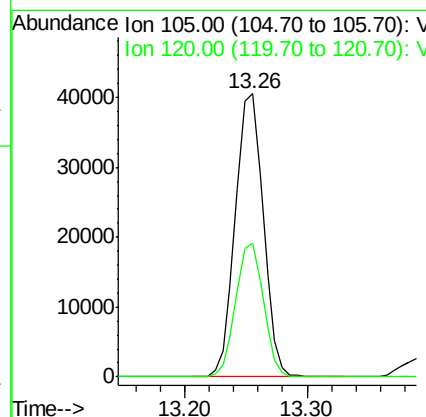
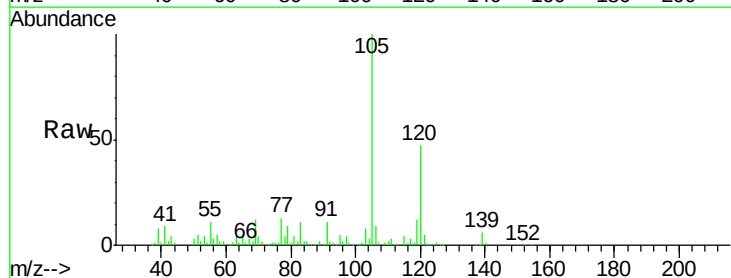
Instrument :
 MSVOA_W
 ClientSampleId :
 21-C1-20190391

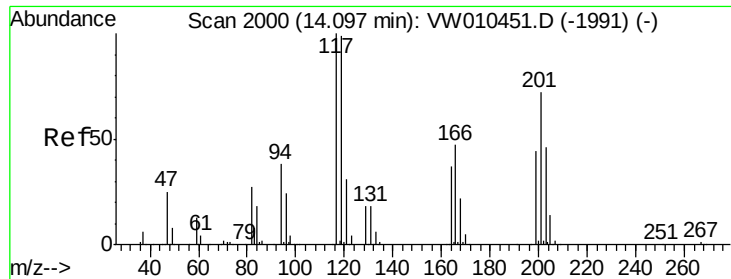
Tot Ion: 91 Resp: 5111
 Ion Ratio Lower Upper
 91 100
 126 47.8 17.5 52.6



#84
 1,2,4-Trimethylbenzene
 Concen: 10.605 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010511.D
 Acq: 22 May 2019 15:37

Tgt Ion:105 Resp: 64240
 Ion Ratio Lower Upper
 105 100
 120 46.7 23.4 70.2

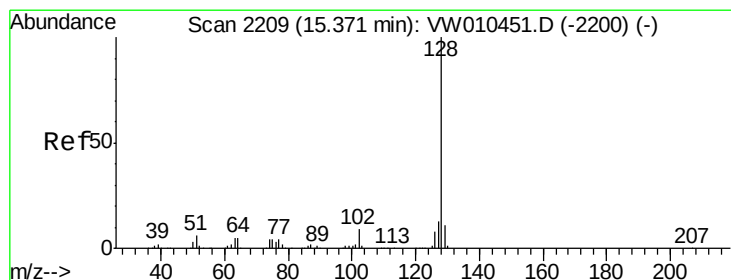
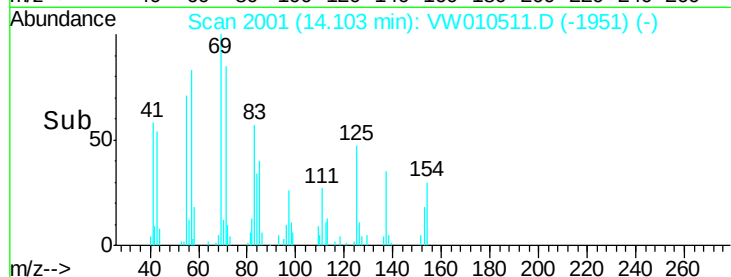
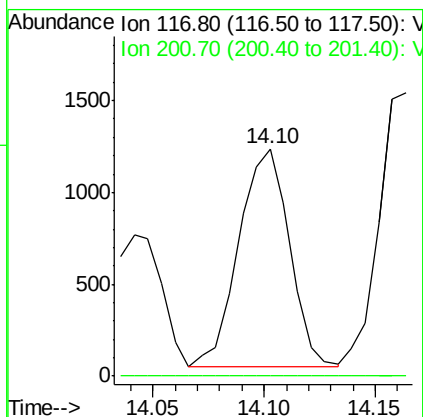
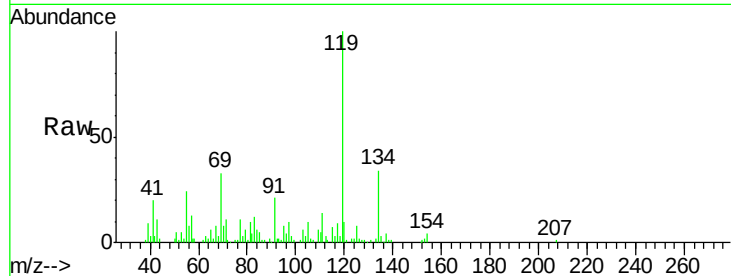




#90
Hexachloroethane
Concen: 1.426 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Instrument :
MSVOA_W
ClientSampleId :
21-C1-20190391

Tot Ion:117 Resp: 1858
Ion Ratio Lower Upper
117 100
201 0.0 34.6 103.8#



#95
Naphthalene
Concen: 1.903 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010511.D
Acq: 22 May 2019 15:37

Tgt Ion:128 Resp: 7809
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 10.5 8.9 13.3

