

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\
 Data File : VW008320.D
 Acq On : 16 Jan 2019 20:30
 Operator : SY/VA
 Sample : K1167-09
 Misc : 5.90G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CLOVER-YARD-A

Quant Time: Jan 17 05:05:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 04:40:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	76108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	140751	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	129788	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	61658	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	48924	57.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.40%	
35) Dibromofluoromethane	7.88	113	45886	55.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.80%	
50) Toluene-d8	10.32	98	182904	53.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.62	95	62329	50.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.94%	

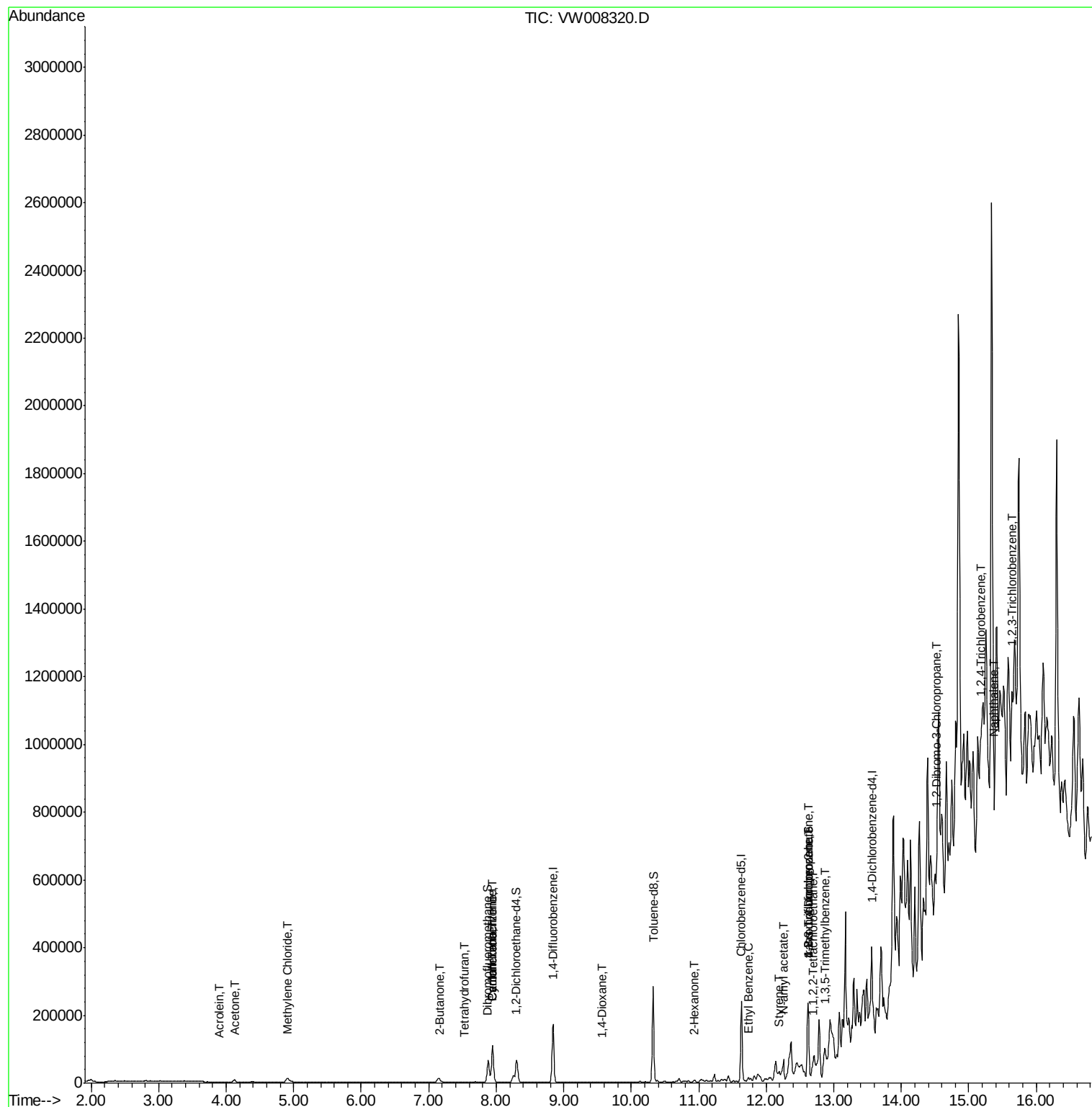
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	164	Below Cal	#	100
13) Acrolein	3.89	56	363	4.907	ug/l	98
16) Acetone	4.12	43	12239	63.852	ug/l	91
20) Methylene Chloride	4.90	84	10351	8.279	ug/l	93
25) 2-Butanone	7.17	43	3935	16.534	ug/l	96
29) Tetrahydrofuran	7.52	42	504	3.170	ug/l #	52
31) Cyclohexane	7.95	56	2189	1.216	ug/l #	18
38) Carbon Tetrachloride	7.95	117	8614	6.491	ug/l #	15
49) 1,4-Dioxane	9.56	88	20	2.597	ug/l #	79
59) 2-Hexanone	10.93	43	2896	7.618	ug/l #	37
67) Ethyl Benzene	11.73	91	7176	1.426	ug/l	93
70) Styrene	12.18	104	4636	1.664	ug/l	92
74) N-amyl acetate	12.26	43	14186	13.233	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.69	83	4228	5.457	ug/l #	50
76) 1,2,3-Trichloropropane	12.62	75	30415	54.112	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.87	105	4136	1.040	ug/l	74
81) trans-1,4-Dichloro-2-buten	12.62	75	30415	126.009	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.52	75	534	4.282	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.17	180	6601	5.452	ug/l #	1
95) Naphthalene	15.38	128	7669	3.393	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.64	180	5328	5.163	ug/l	76

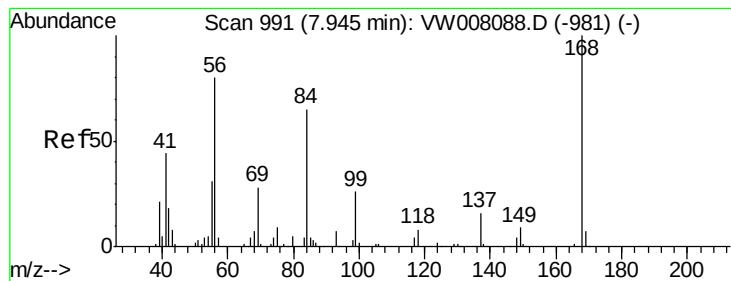
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

Instrument :

MSVOA_W

ClientSampleId :

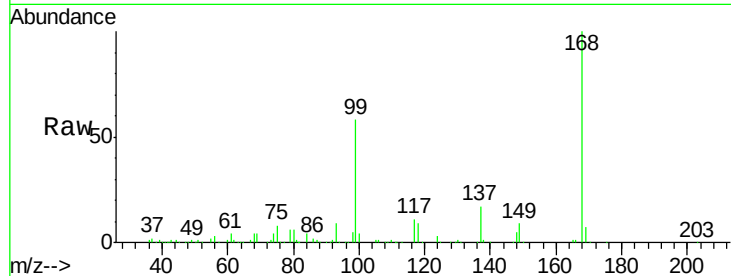
CLOVER-YARD-A

Tot Ion:168 Resp: 76108

Ion Ratio Lower Upper

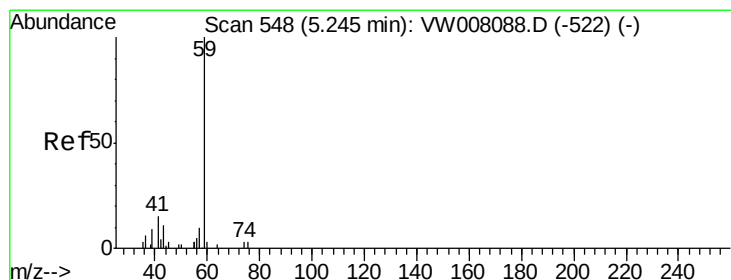
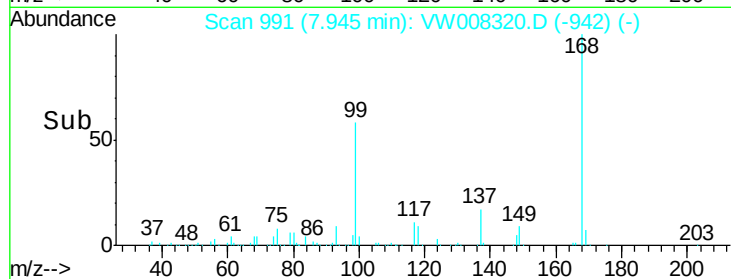
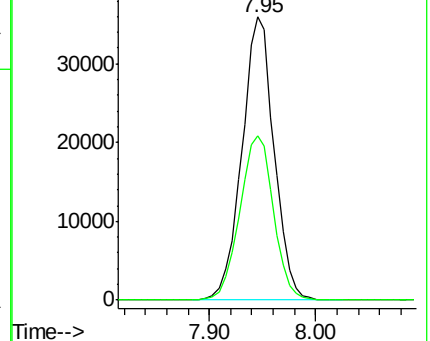
168 100

99 58.0 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.26 min Scan# 550

Delta R.T. 0.01 min

Lab File: VW008320.D

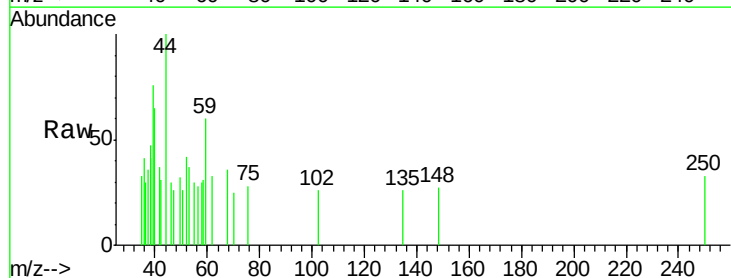
Acq: 16 Jan 2019 20:30

Tgt Ion: 59 Resp: 164

Ion Ratio Lower Upper

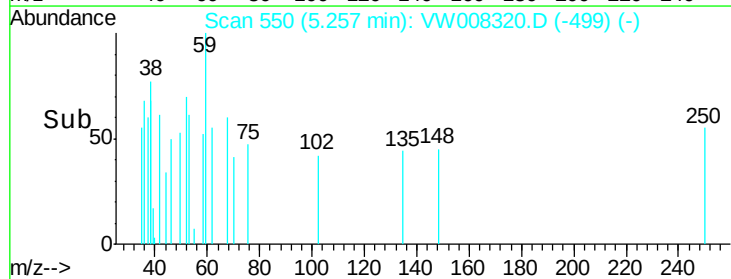
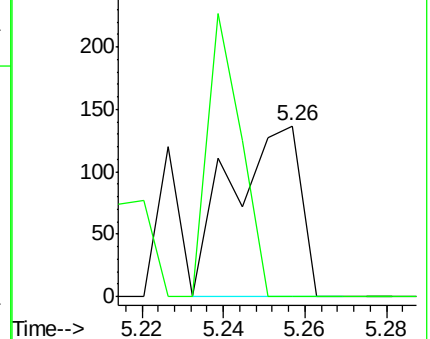
59 100

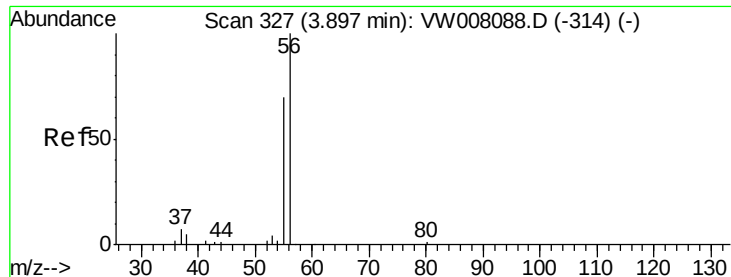
57 78.7 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 4.907 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

Instrument :

MSVOA_W

ClientSampleId :

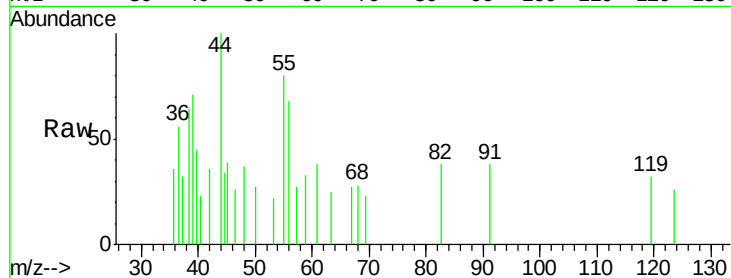
CLOVER-YARD-A

Tot Ion: 56 Resp: 363

Ion Ratio Lower Upper

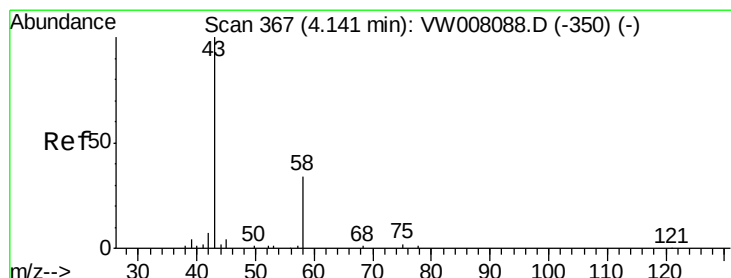
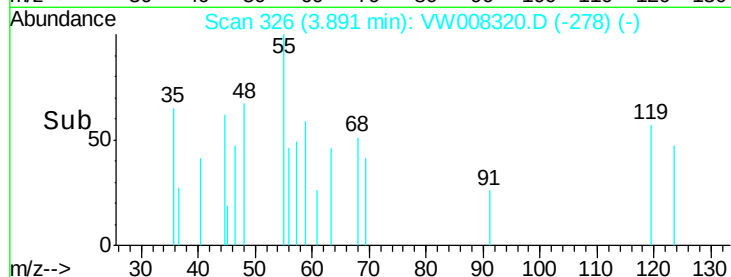
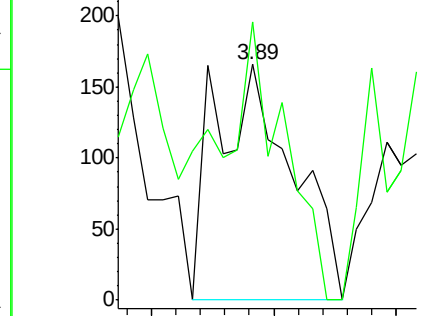
56 100

55 68.9 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 63.852 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.02 min

Lab File: VW008320.D

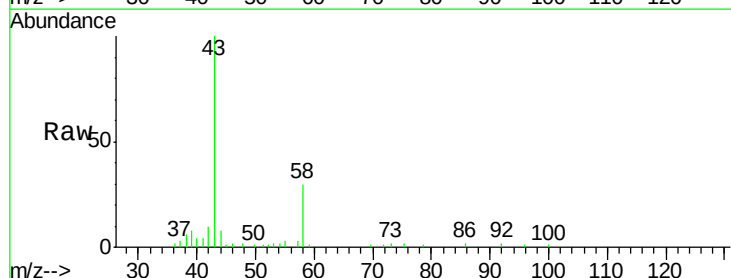
Acq: 16 Jan 2019 20:30

Tgt Ion: 43 Resp: 12239

Ion Ratio Lower Upper

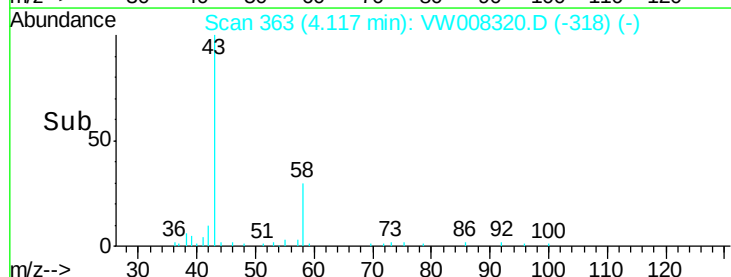
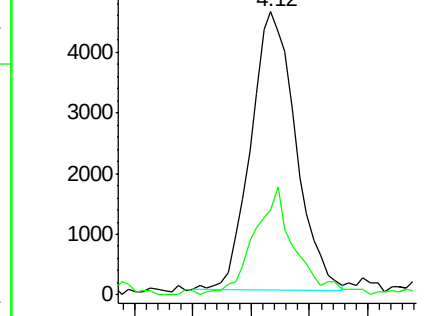
43 100

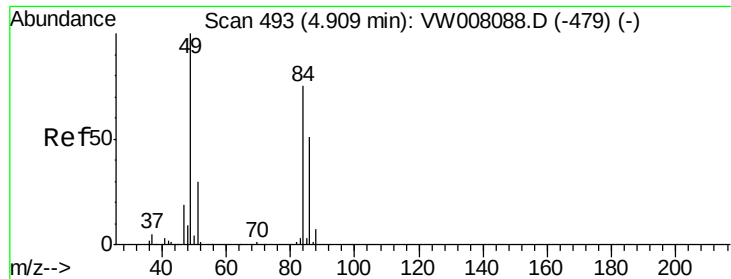
58 29.4 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

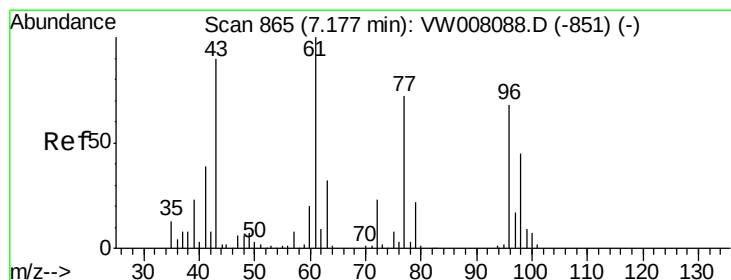
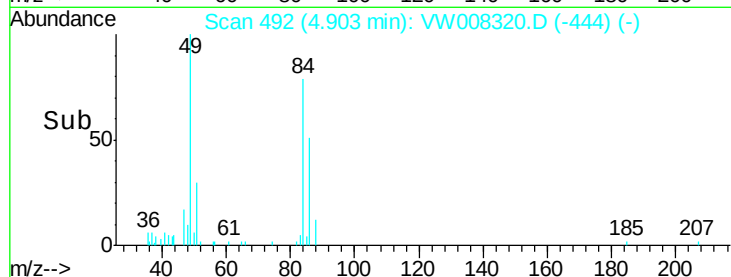
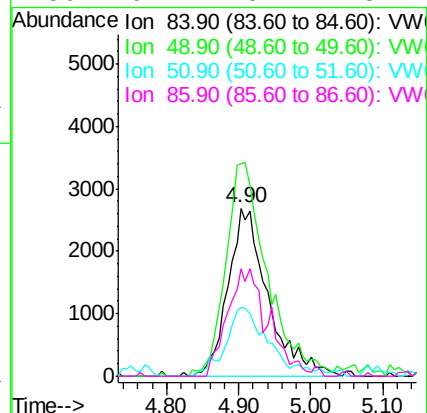
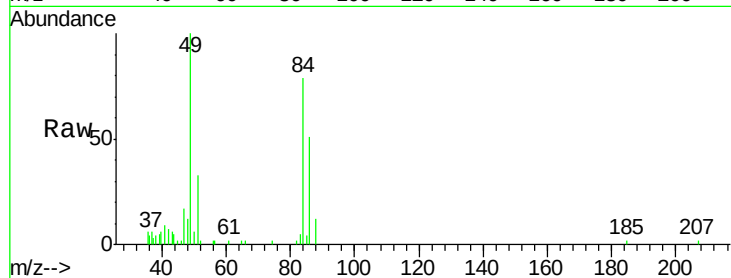




#20
Methylene Chloride
Concen: 8.279 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

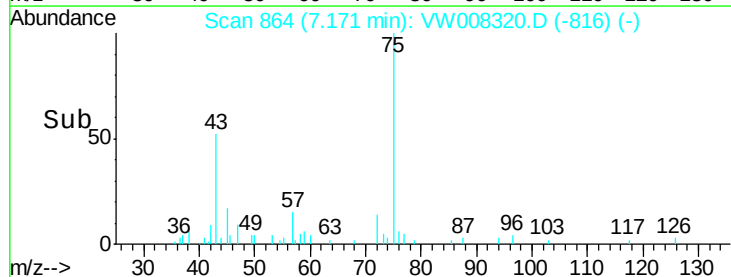
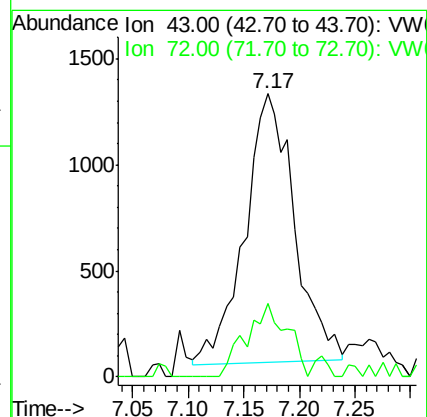
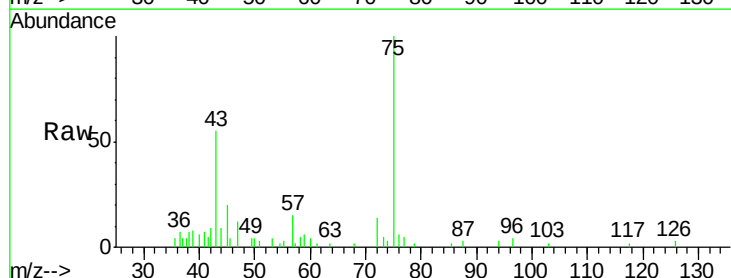
Instrument :
MSVOA_W
ClientSampleId :
CLOVER-YARD-A

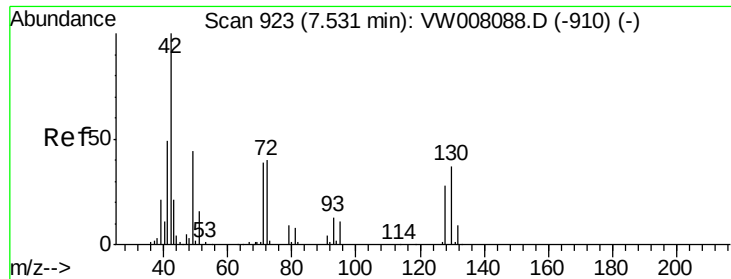
Tot Ion: 84 Resp: 10351
Ion Ratio Lower Upper
84 100
49 122.4 107.1 160.7
51 39.3 32.4 48.6
86 64.2 54.2 81.4



#25
2-Butanone
Concen: 16.534 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

Tgt Ion: 43 Resp: 3935
Ion Ratio Lower Upper
43 100
72 27.4 20.5 30.7

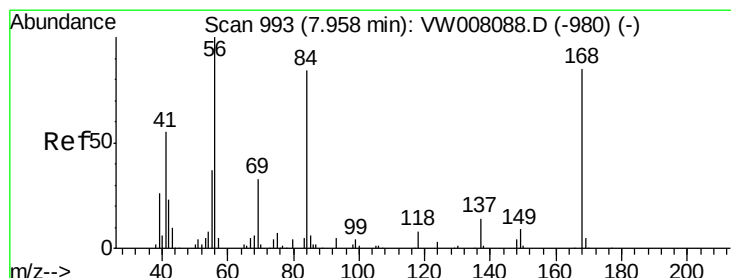
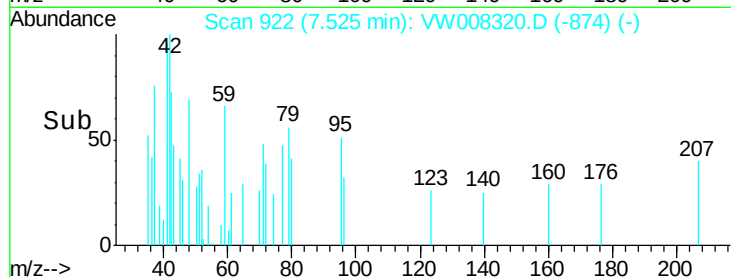
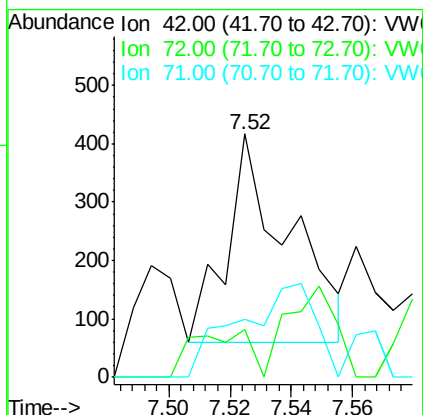
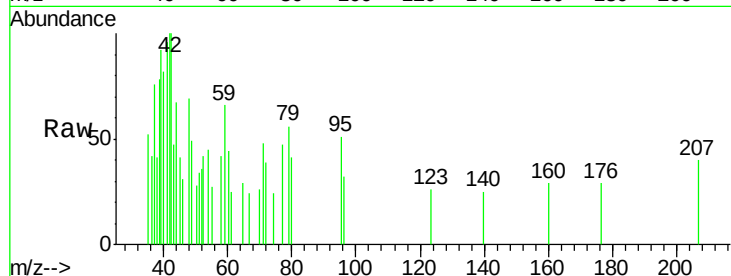




#29
Tetrahydrofuran
Concen: 3.170 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

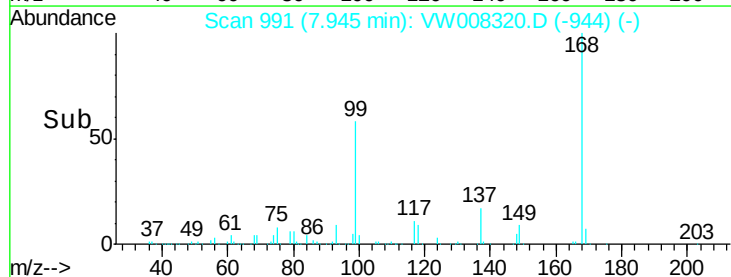
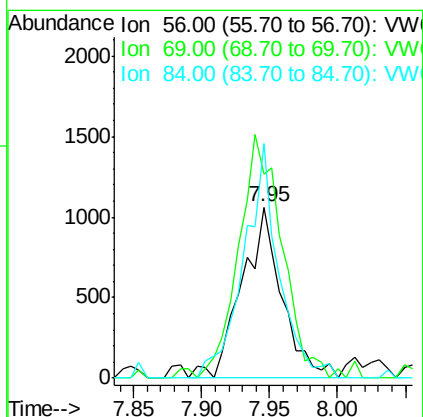
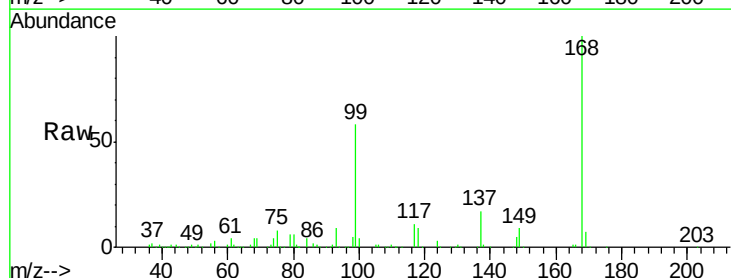
Instrument :
MSVOA_W
ClientSampled :
CLOVER-YARD-A

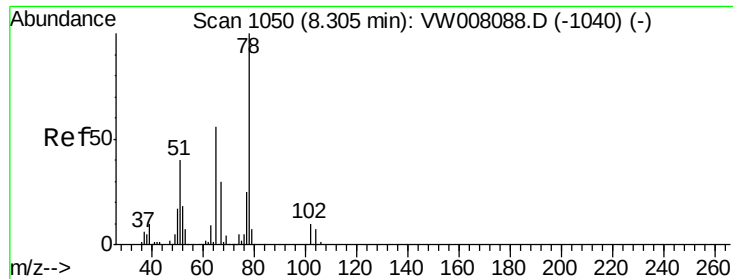
Tot Ion: 42 Resp: 504
Ion Ratio Lower Upper
42 100
72 20.2 32.4 48.6#
71 0.0 31.3 46.9#



#31
Cyclohexane
Concen: 1.216 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

Tgt Ion: 56 Resp: 2189
Ion Ratio Lower Upper
56 100
69 113.5 26.2 39.4#
84 137.3 67.4 101.2#

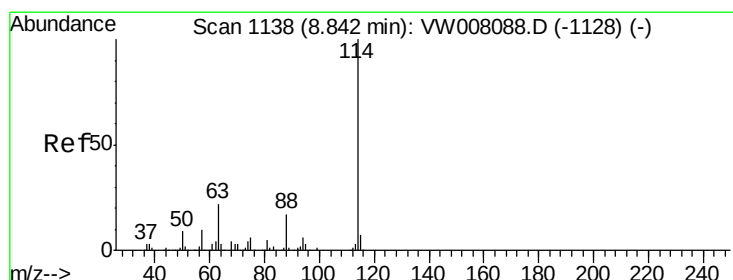
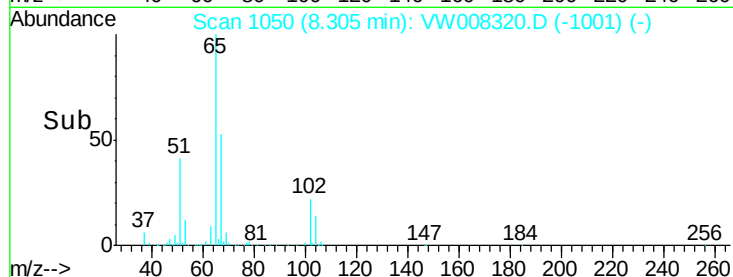
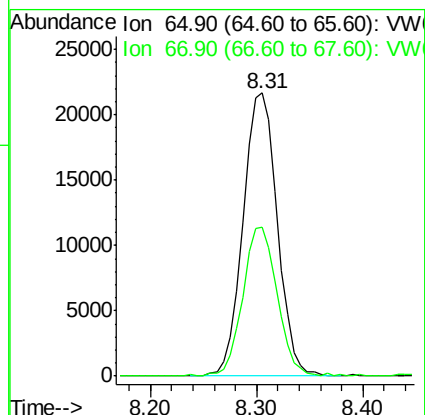
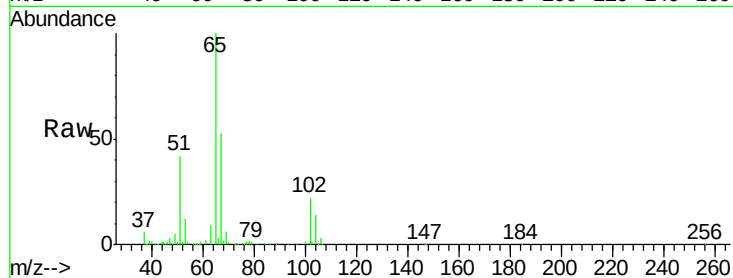




#33
 1,2-Dichloroethane-d4
 Concen: 57.195 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

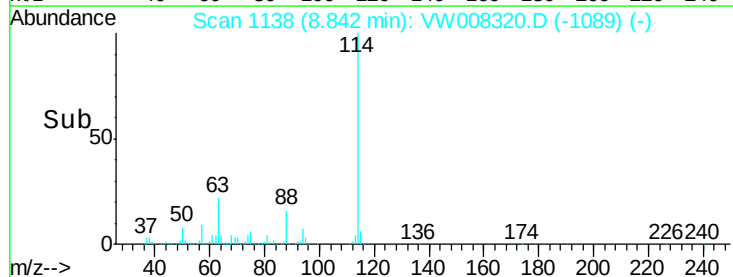
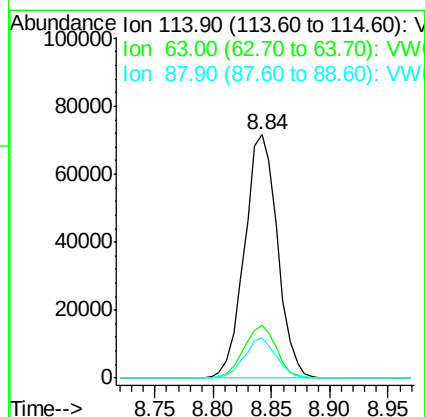
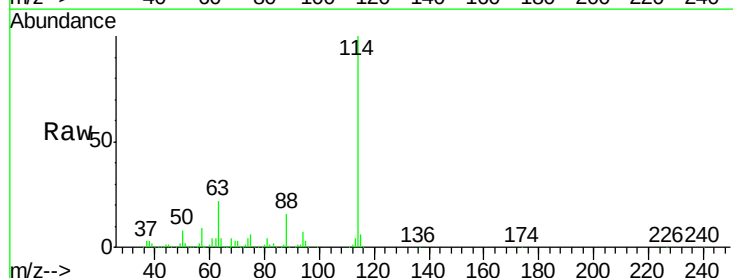
Instrument :
 MSVOA_W
 ClientSampleId :
 CLOVER-YARD-A

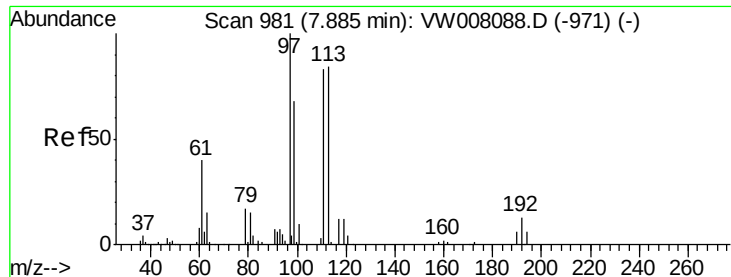
Tot Ion: 65 Resp: 48924
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

Tgt Ion: 114 Resp: 140751
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.4
 88 16.2 0.0 33.4

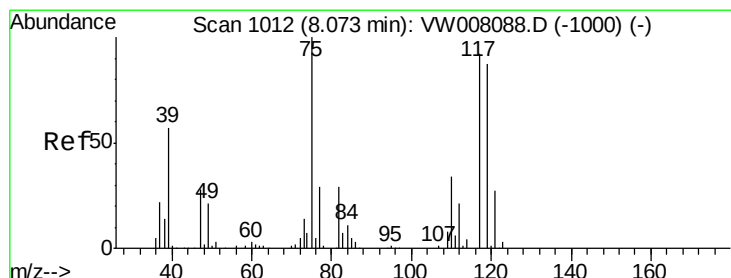
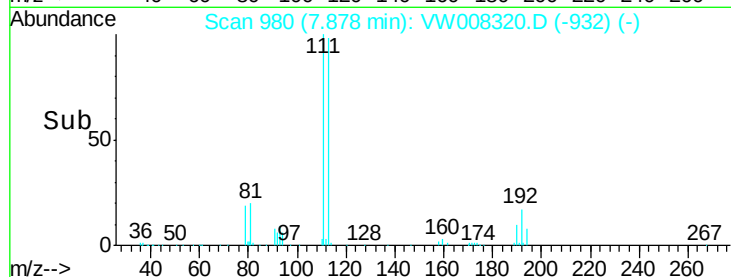
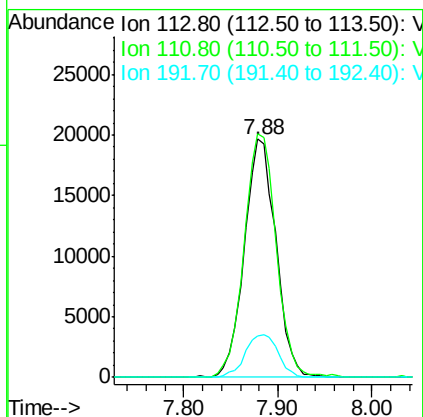
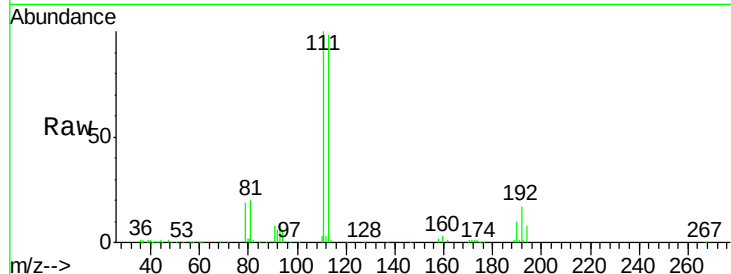




#35
 Dibromofluoromethane
 Concen: 55.896 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

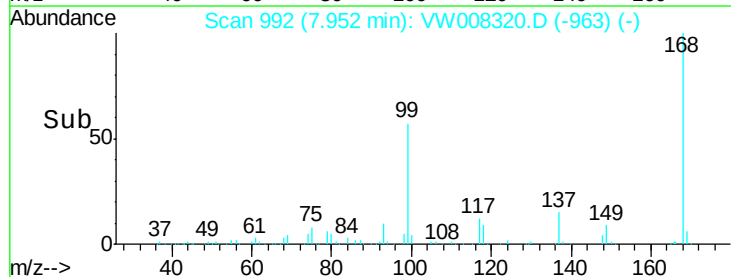
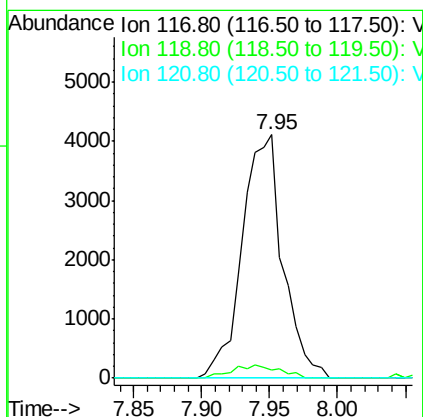
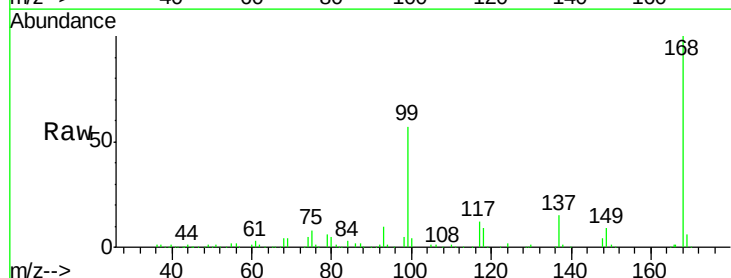
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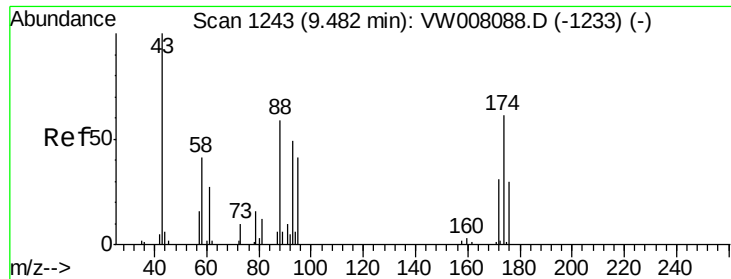
Tot Ion:113 Resp: 45886
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.8 122.8
 192 18.8 12.8 19.2



#38
 Carbon Tetrachloride
 Concen: 6.491 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

Tgt Ion:117 Resp: 8614
 Ion Ratio Lower Upper
 117 100
 119 3.4 75.8 113.8#
 121 0.0 23.7 35.5#





#49

1,4-Dioxane

Concen: 2.597 ug/l

RT: 9.56 min Scan# 1256

Delta R.T. 0.08 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

Instrument :

MSVOA_W

ClientSampleId :

CLOVER-YARD-A

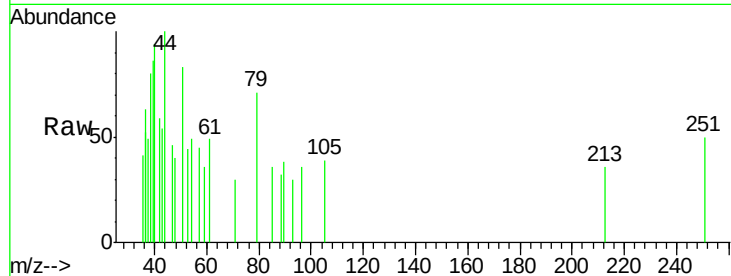
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 1135.0 0.0 0.0#

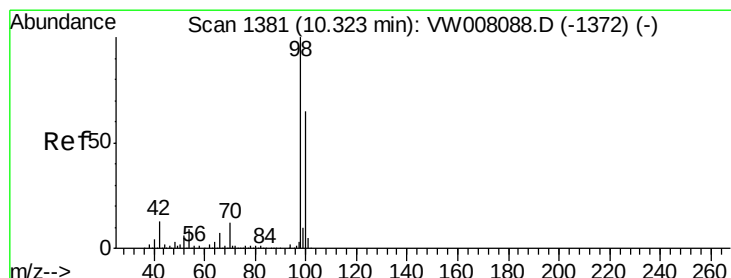
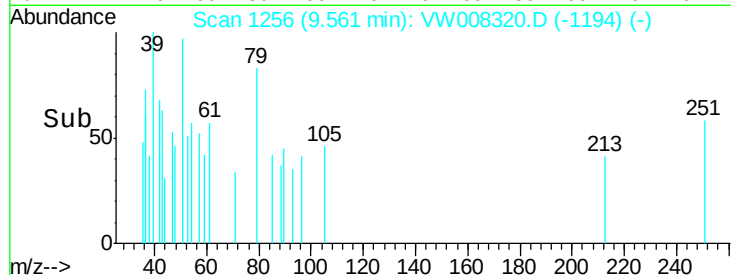
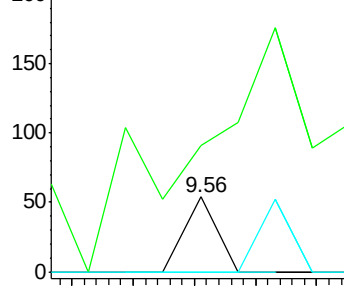
58 95.0 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 53.094 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008320.D

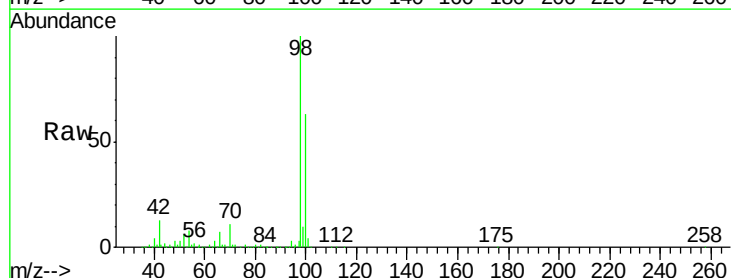
Acq: 16 Jan 2019 20:30

Tgt Ion: 98 Resp: 182904

Ion Ratio Lower Upper

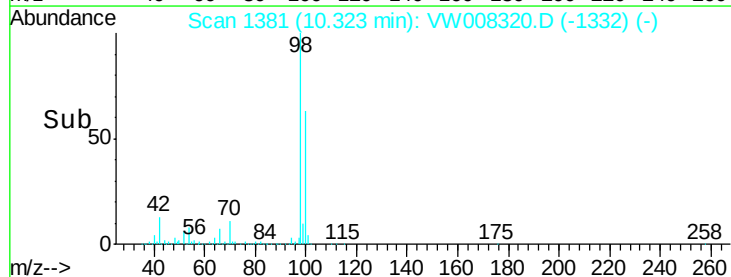
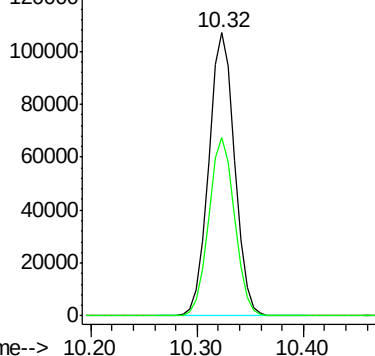
98 100

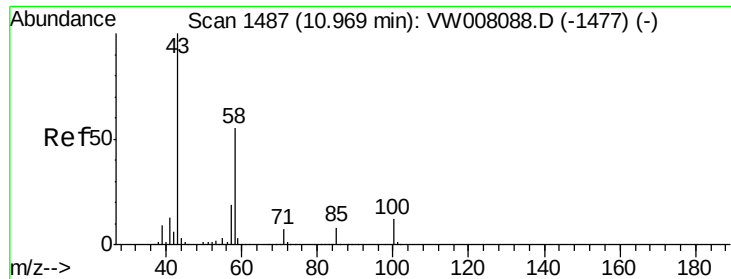
100 62.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

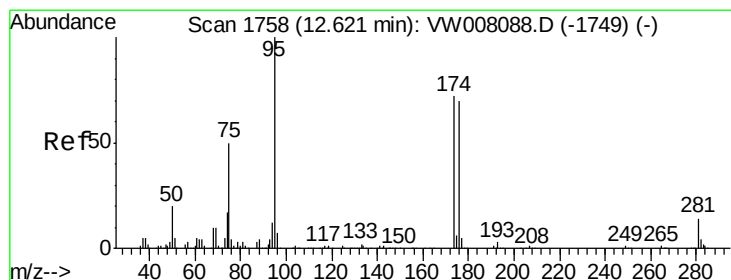
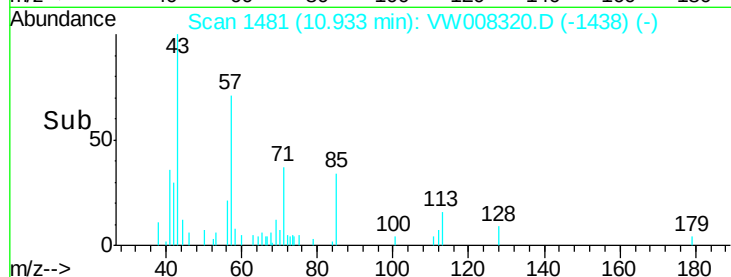
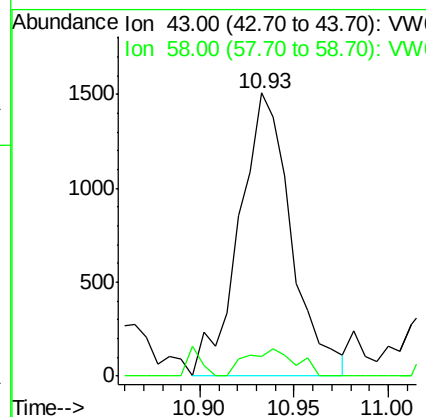
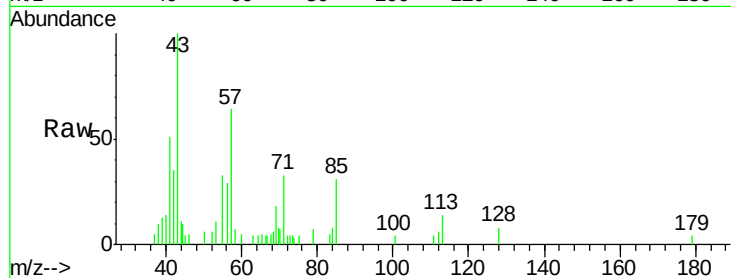




#59
2-Hexanone
Concen: 7.618 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

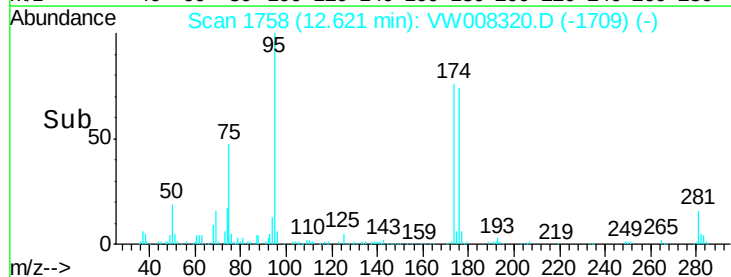
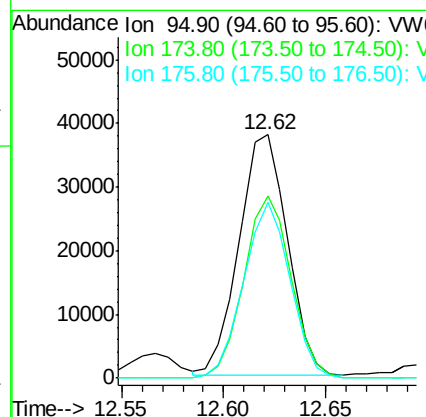
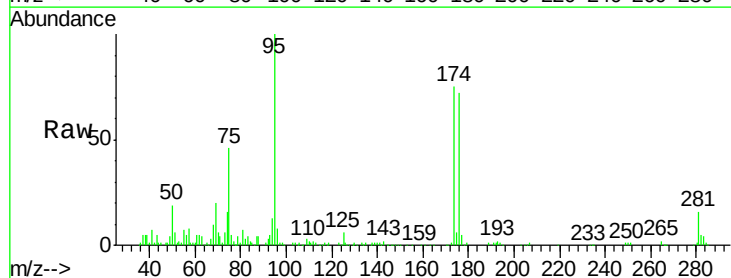
Instrument :
MSVOA_W
ClientSampleId :
CLOVER-YARD-A

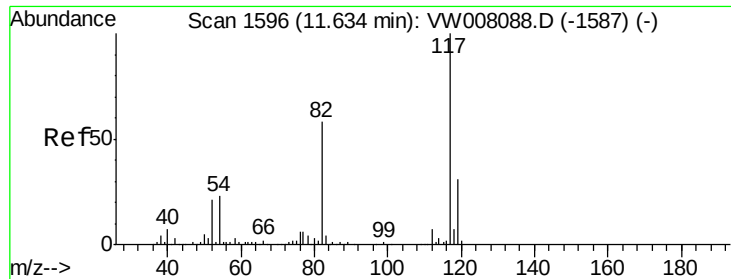
Tot Ion: 43 Resp: 2896
Ion Ratio Lower Upper
43 100
58 9.1 27.2 81.5#



#62
4-Bromofluorobenzene
Concen: 50.470 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

Tgt Ion: 95 Resp: 62329
Ion Ratio Lower Upper
95 100
174 73.8 0.0 143.0
176 70.1 0.0 140.2

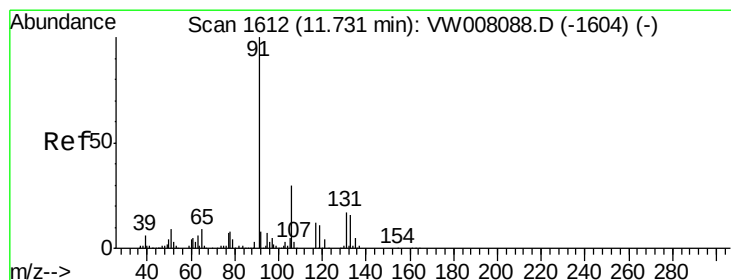
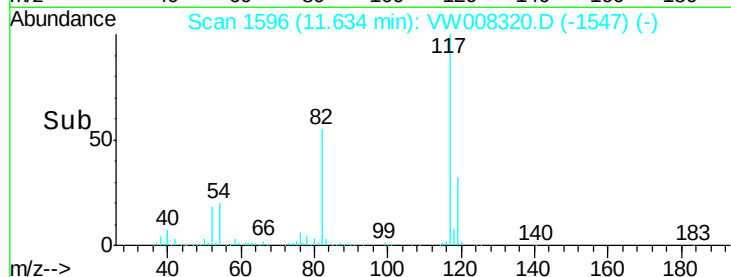
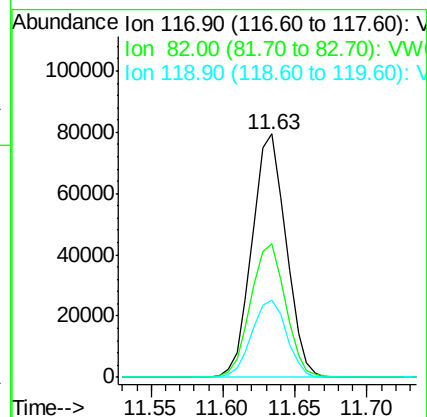
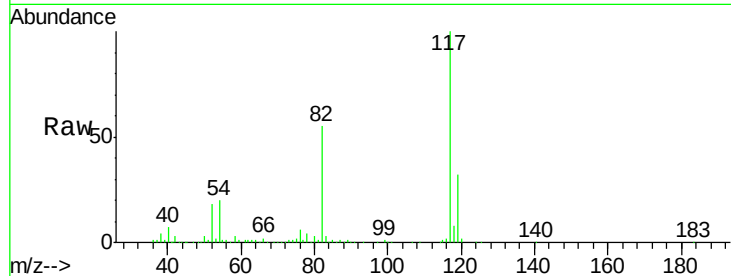




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

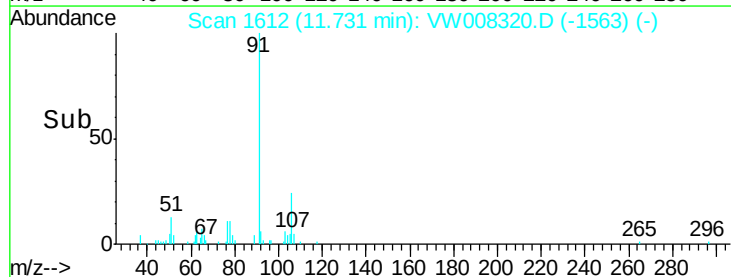
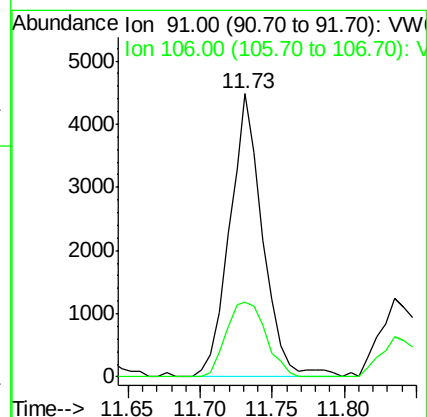
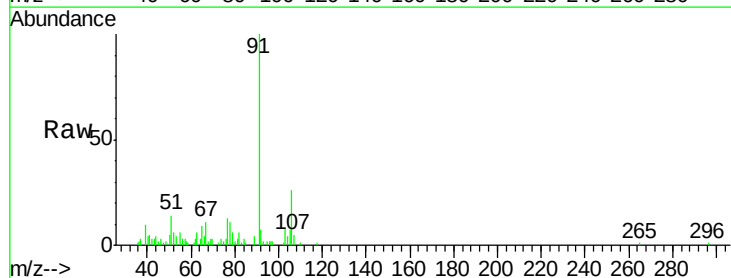
Instrument :
MSVOA_W
ClientSampleId :
CLOVER-YARD-A

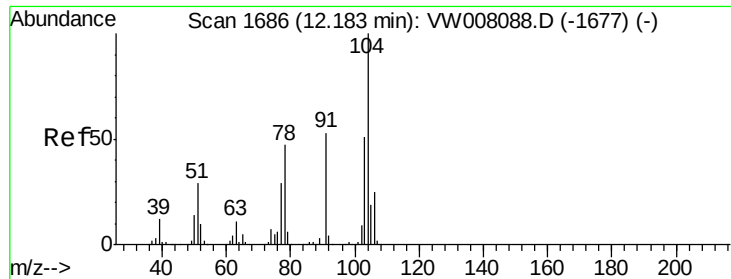
Tot Ion:117 Resp: 129788
Ion Ratio Lower Upper
117 100
82 54.5 46.4 69.6
119 31.7 24.7 37.1



#67
Ethyl Benzene
Concen: 1.426 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

Tgt Ion: 91 Resp: 7176
Ion Ratio Lower Upper
91 100
106 26.3 24.2 36.4

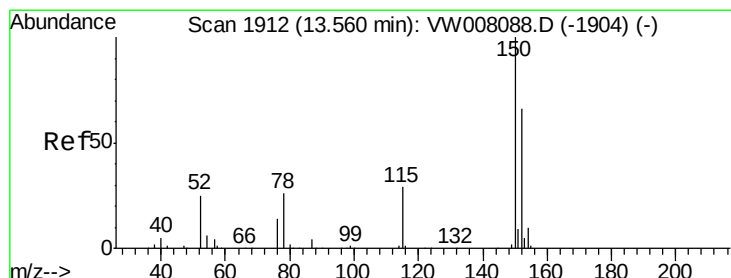
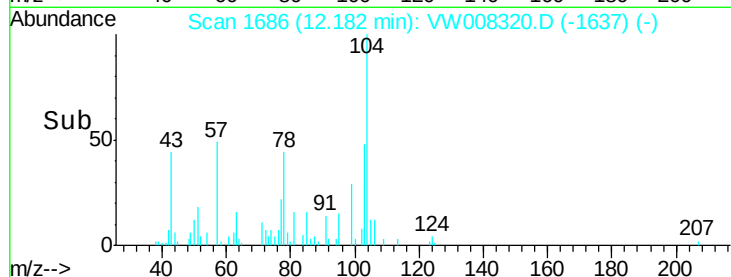
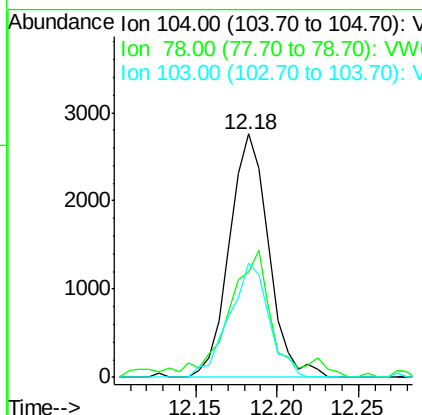
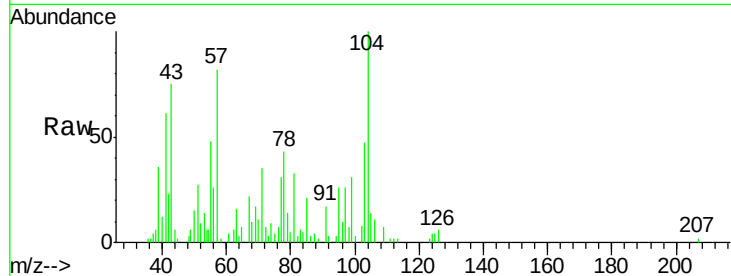




#70
Stvrene
Concen: 1.664 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

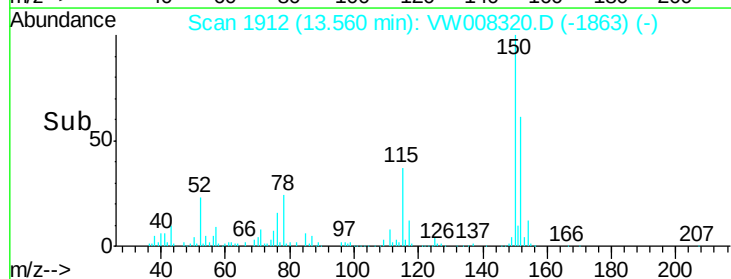
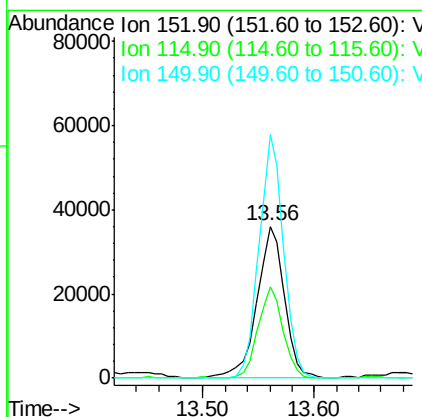
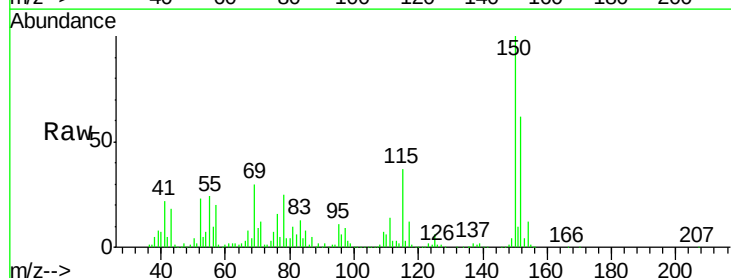
Instrument :
MSVOA_W
ClientSampleId :
CLOVER-YARD-A

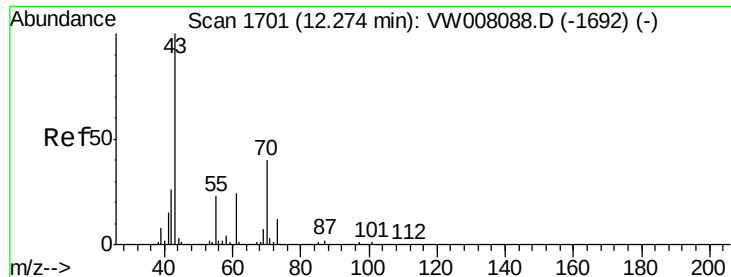
Tot Ion:104 Resp: 4636
Ion Ratio Lower Upper
104 100
78 48.1 41.8 62.8
103 47.6 43.8 65.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008320.D
Acq: 16 Jan 2019 20:30

Tgt Ion:152 Resp: 61658
Ion Ratio Lower Upper
152 100
115 55.0 30.8 92.4
150 143.6 0.0 350.2





#74

N-amyl acetate

Concen: 13.233 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

Instrument :

MSVOA_W

ClientSampleId :

CLOVER-YARD-A

Tot Ion: 43 Resp: 14186

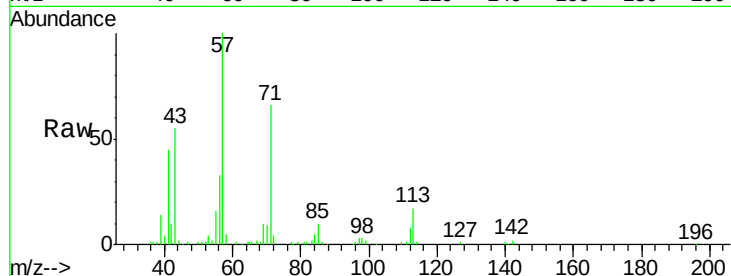
Ion Ratio Lower Upper

43 100

70 25.4 32.4 48.6#

55 0.0 18.7 28.1#

61 0.6 19.0 28.6#

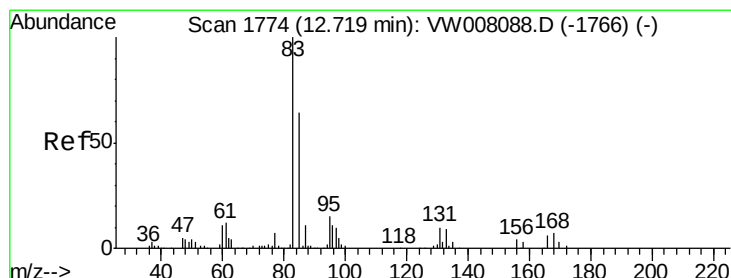
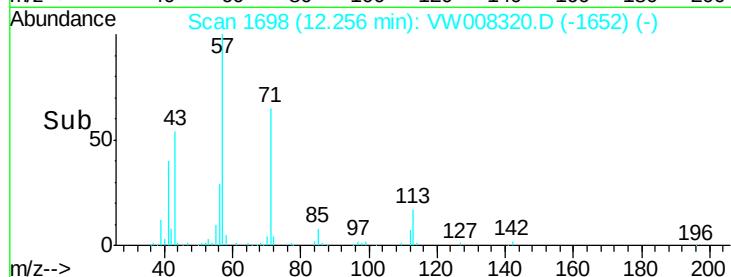
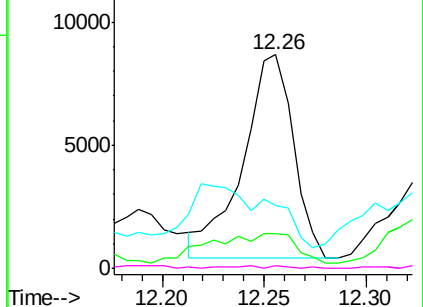


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 5.457 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.03 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

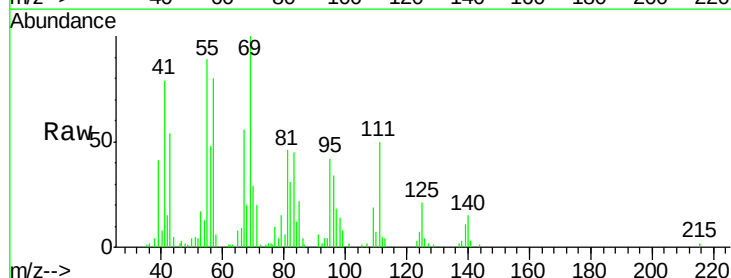
Tgt Ion: 83 Resp: 4228

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

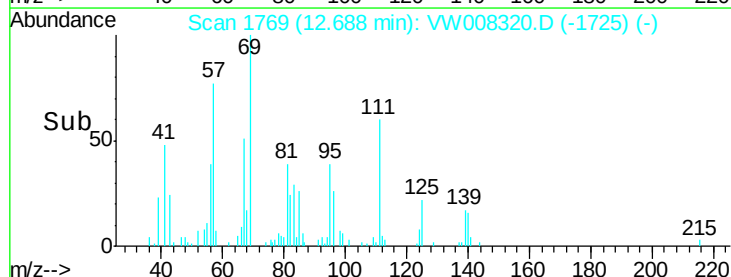
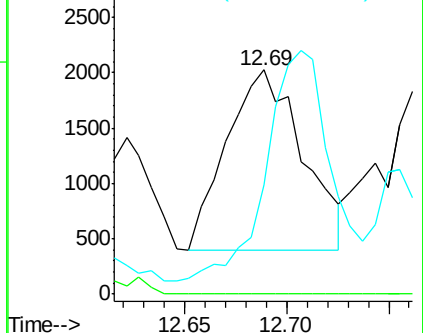
85 107.1 32.4 97.2#

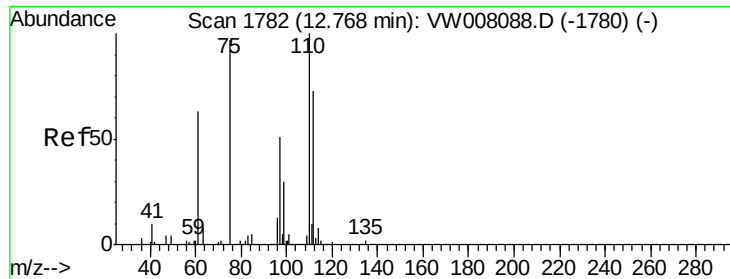


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 54.112 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

Instrument :

MSVOA_W

ClientSampleId :

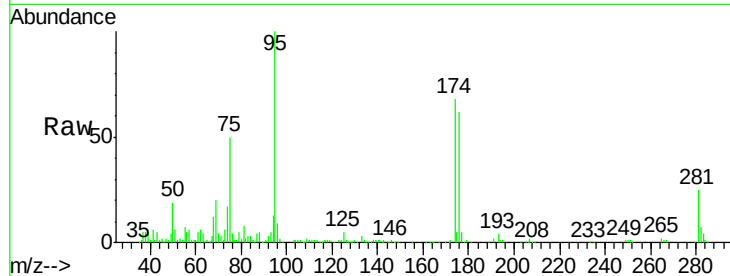
CLOVER-YARD-A

Tot Ion: 75 Resp: 30415

Ion Ratio Lower Upper

75 100

77 3.4 179.4 538.2#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

20000

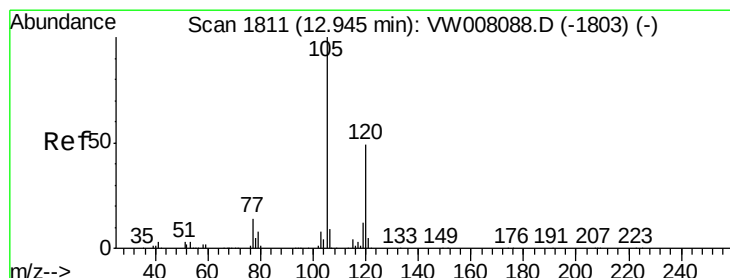
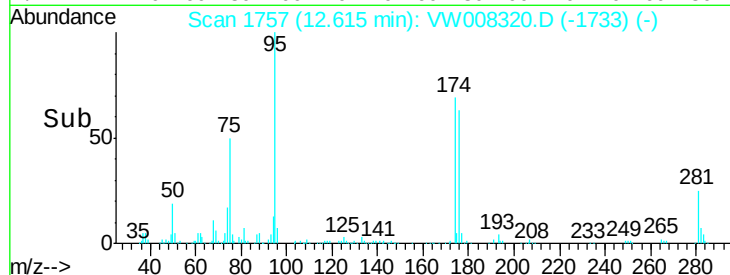
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.040 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.07 min

Lab File: VW008320.D

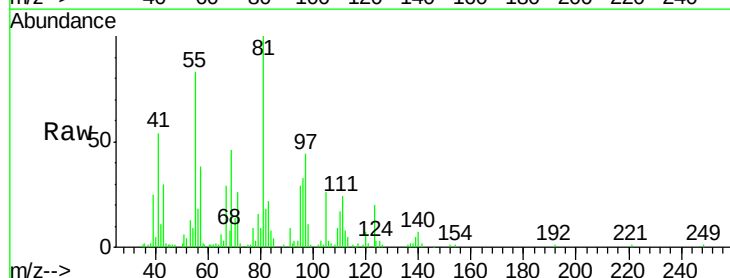
Acq: 16 Jan 2019 20:30

Tgt Ion: 105 Resp: 4136

Ion Ratio Lower Upper

105 100

120 31.4 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

6000

5000

4000

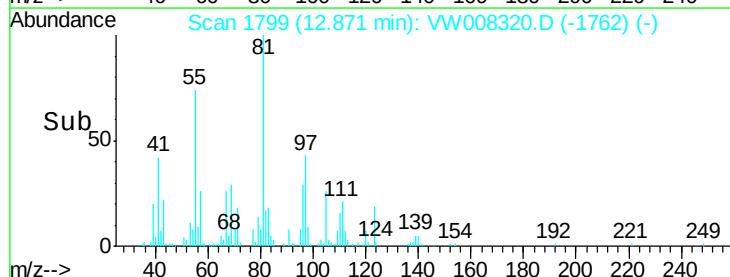
3000

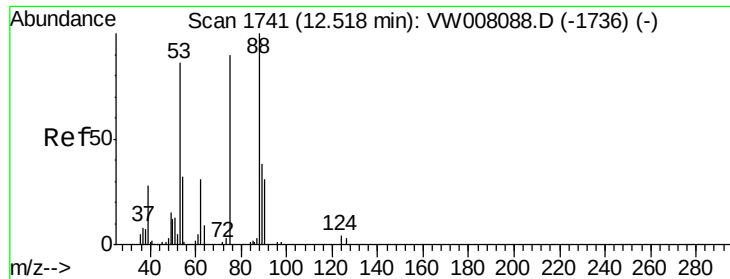
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 126.009 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

Instrument :

MSVOA_W

ClientSampleId :

CLOVER-YARD-A

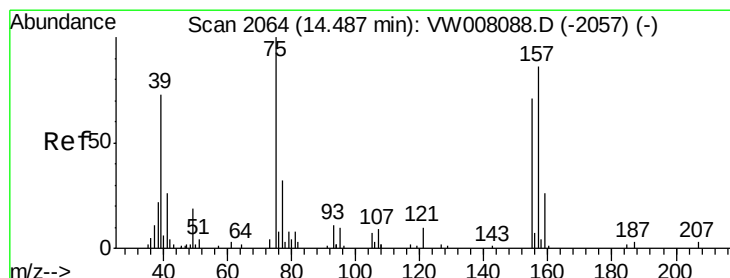
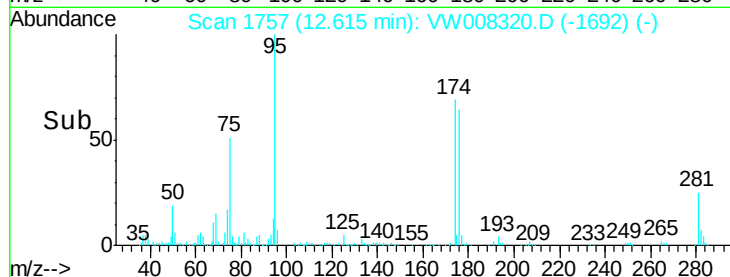
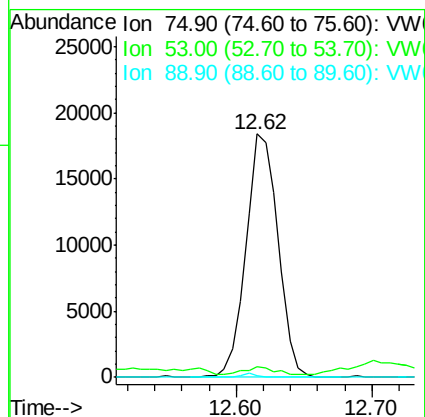
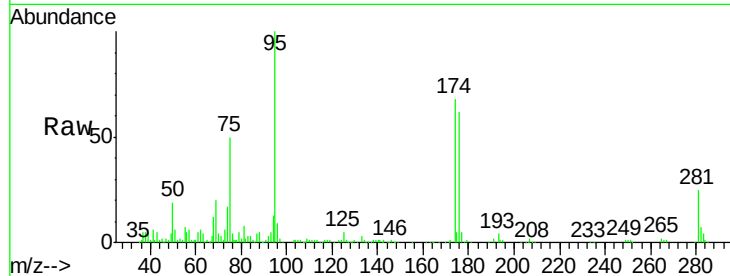
Tot Ion: 75 Resp: 30415

Ion Ratio Lower Upper

75 100

53 2.6 78.8 118.2#

89 0.7 35.4 53.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.282 ug/l

RT: 14.52 min Scan# 2069

Delta R.T. 0.03 min

Lab File: VW008320.D

Acq: 16 Jan 2019 20:30

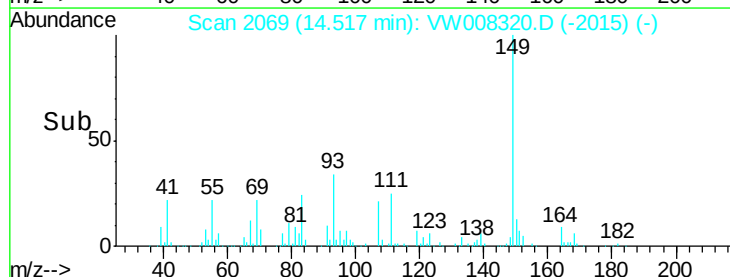
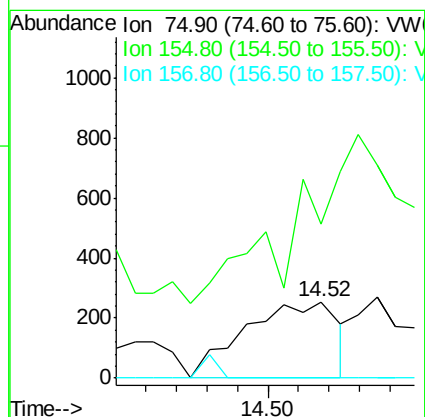
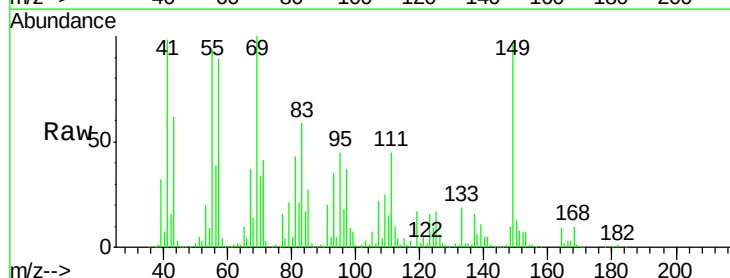
Tgt Ion: 75 Resp: 534

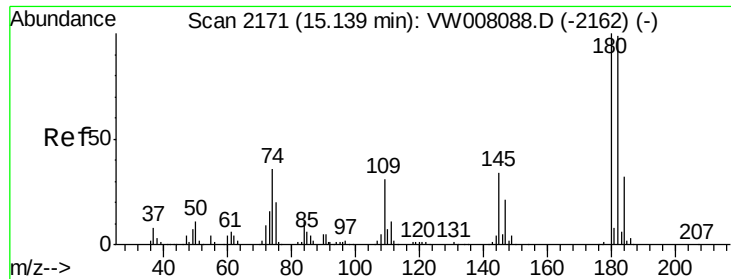
Ion Ratio Lower Upper

75 100

155 258.8 38.6 115.7#

157 0.0 47.5 142.6#

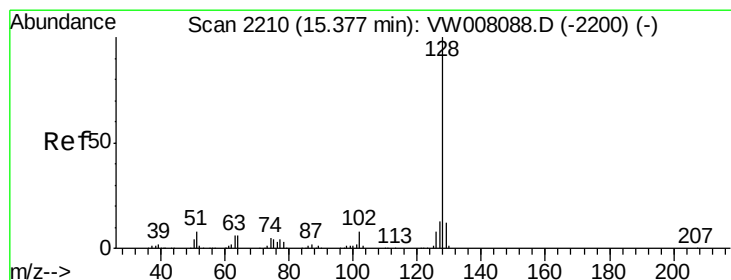
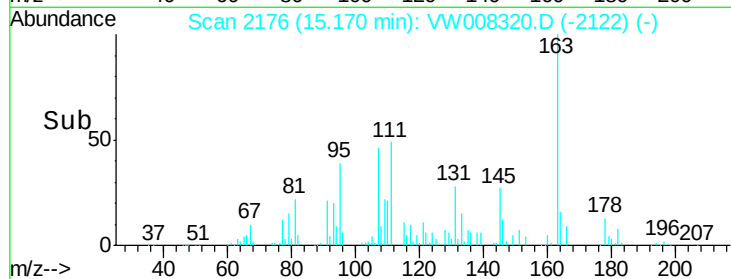
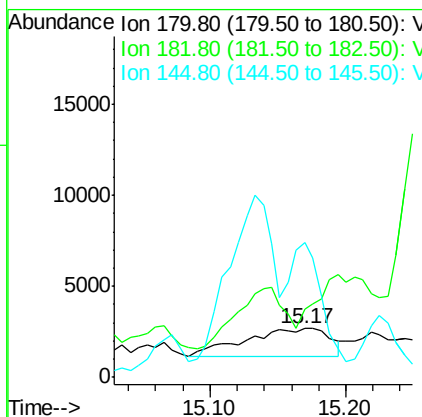
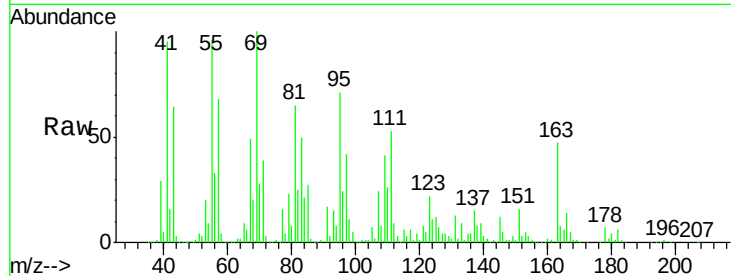




#93
 1,2,4-Trichlorobenzene
 Concen: 5.452 ug/l
 RT: 15.17 min Scan# 2176
 Delta R.T. 0.03 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

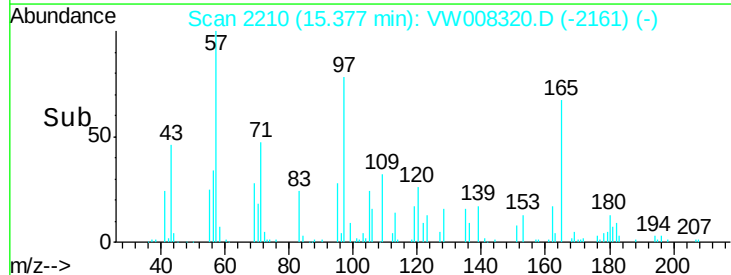
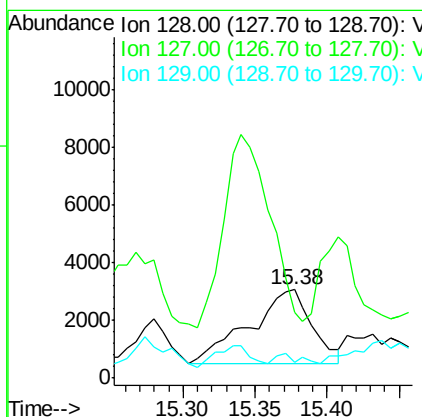
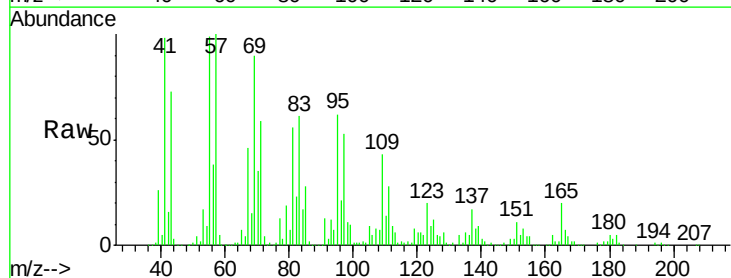
Instrument :
 MSVOA_W
 ClientSampleId :
 CLOVER-YARD-A

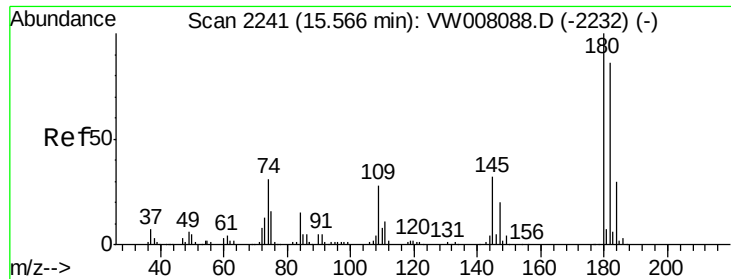
Tot Ion:180 Resp: 6601
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.6 145.9#
 145 158.0 16.6 49.7#



#95
 Naphthalene
 Concen: 3.393 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. -0.00 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

Tgt Ion:128 Resp: 7669
 Ion Ratio Lower Upper
 128 100
 127 0.0 11.0 16.4#
 129 4.6 9.0 13.6#

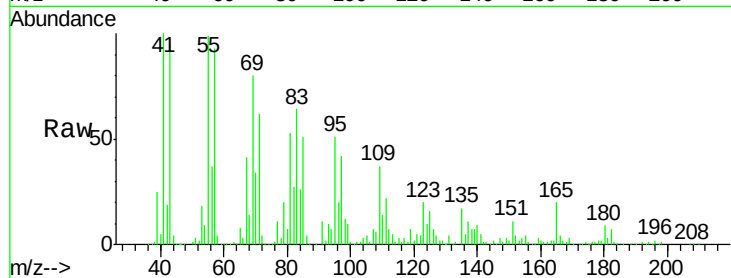




#96
 1,2,3-Trichlorobenzene
 Concen: 5.163 ug/l
 RT: 15.64 min Scan# 2253
 Delta R.T. 0.07 min
 Lab File: VW008320.D
 Acq: 16 Jan 2019 20:30

Instrument :
 MSVOA_W
 ClientSampleId :
 CLOVER-YARD-A

Tot Ion:180 Resp: 5328
 Ion Ratio Lower Upper
 180 100
 182 65.8 46.5 139.3
 145 43.1 17.4 52.2



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

