

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122318\
 Data File : VW007815.D
 Acq On : 22 Dec 2018 00:10
 Operator : SY/AP
 Sample : J6377-19
 Misc : 4.33G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 22 01:59:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	43627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	75066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	46561	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	11045	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	28077	58.72	ug/l	0.00
Spiked Amount			Recovery	=	117.44%	
35) Dibromofluoromethane	7.88	113	22287	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.32	98	56760	32.88	ug/l	0.00
Spiked Amount			Recovery	=	65.76%	
62) 4-Bromofluorobenzene	12.62	95	12784	19.17	ug/l	0.00
Spiked Amount			Recovery	=	38.34%	

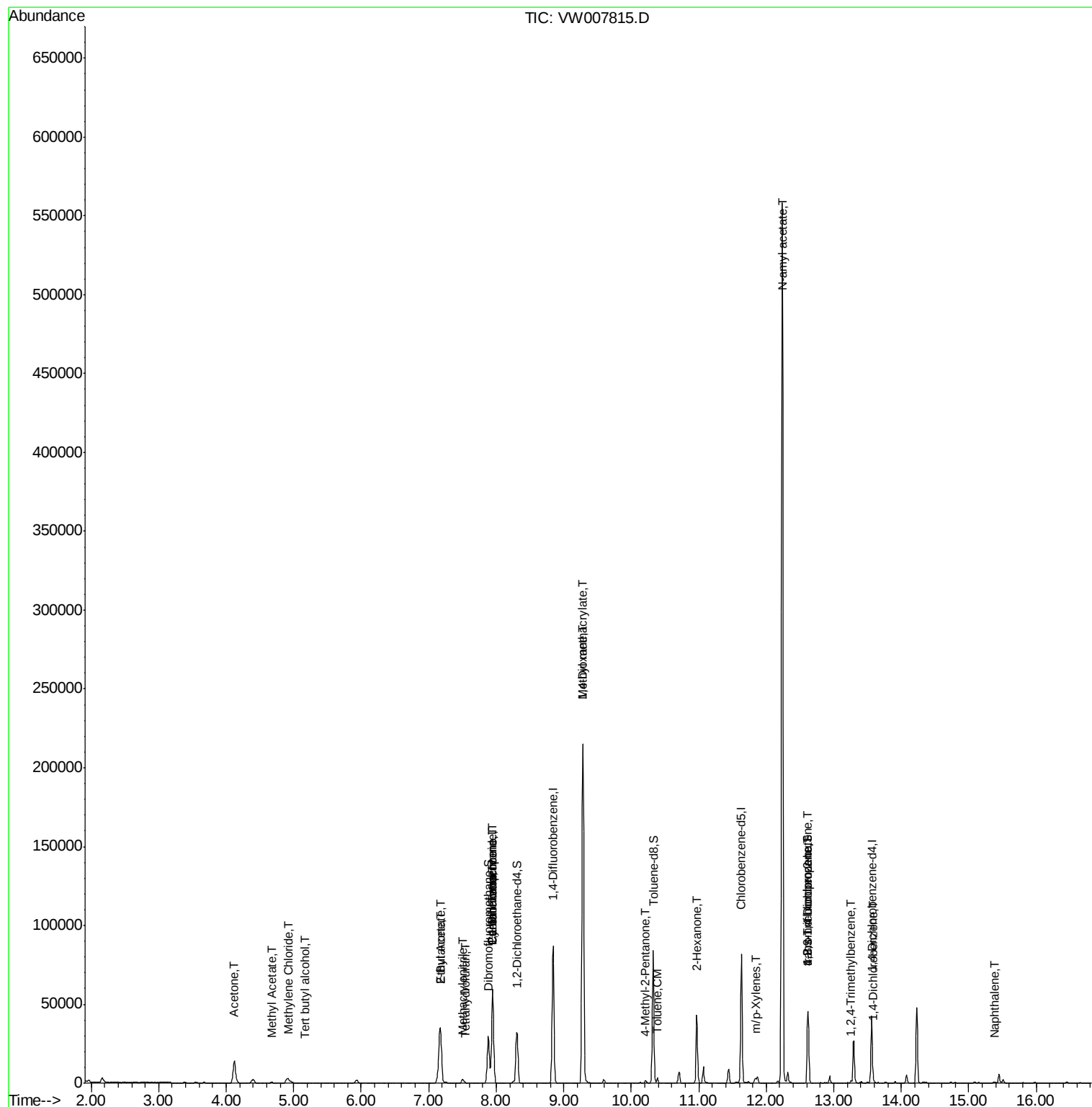
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	130	4.030	ug/l #	73
16) Acetone	4.12	43	23857	266.433	ug/l	97
18) Methyl Acetate	4.67	43	878	4.123	ug/l #	62
20) Methylene Chloride	4.92	84	3335	1.307	ug/l #	86
25) 2-Butanone	7.17	43	49178	468.897	ug/l	91
29) Tetrahydrofuran	7.54	42	146	2.334	ug/l #	27
31) Cyclohexane	7.95	56	978	1.374	ug/l #	25
36) 1,1-Dichloropropene	7.95	75	3388	4.676	ug/l #	49
37) Ethyl Acetate	7.17	43	49178	196.679	ug/l #	68
38) Carbon Tetrachloride	7.95	117	4663	5.465	ug/l #	11
41) Methacrylonitrile	7.50	41	522	3.677	ug/l #	43
48) Methyl methacrylate	9.28	41	29989	119.932	ug/l #	44
49) 1,4-Dioxane	9.27	88	104	24.840	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1043	4.406	ug/l	93
52) Toluene	10.38	92	1500	1.156	ug/l	96
59) 2-Hexanone	10.97	43	24869	149.366	ug/l	97
68) m/p-Xylenes	11.84	106	1095	1.632	ug/l	99
74) N-amyl acetate	12.24	43	315309	2180.361	ug/l #	43
76) 1,2,3-Trichloropropane	12.62	75	6840	80.124	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	6840	168.186	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.26	105	971	1.336	ug/l	95
88) 1,4-Dichlorobenzene	13.58	146	1049	2.761	ug/l	95
95) Naphthalene	15.38	128	893	2.046	ug/l #	72

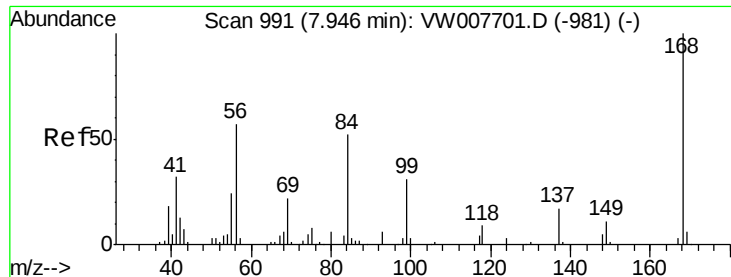
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 22 01:59:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 06:30:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

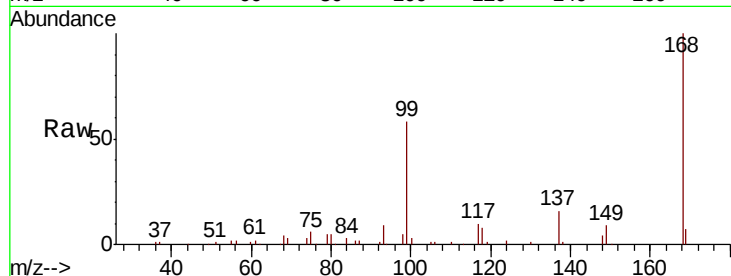
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 43627

Ion Ratio Lower Upper

168 100

99 57.9 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VW007701.D (-981) (-)

Ion 98.90 (98.60 to 99.60): VW007701.D (-981) (-)

7.95

20000

15000

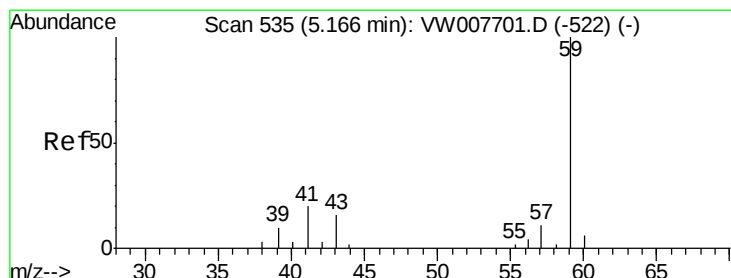
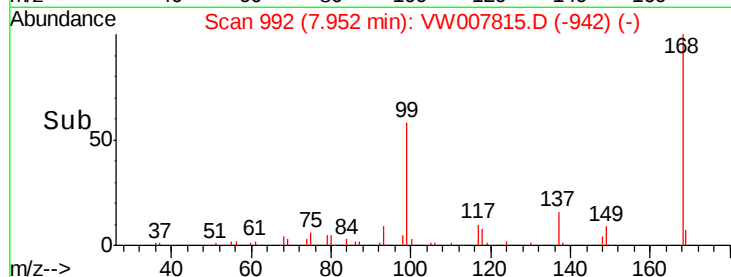
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#11

Tert butyl alcohol

Concen: 4.030 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW007815.D

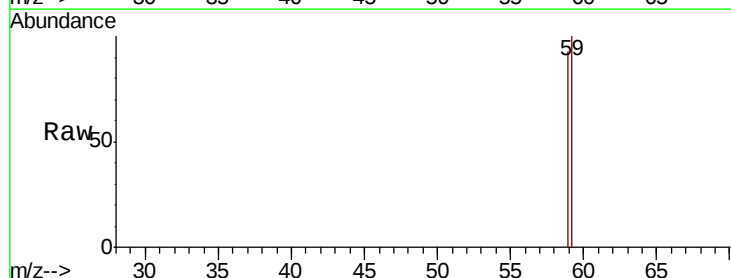
Acq: 22 Dec 2018 00:10

Tgt Ion: 59 Resp: 130

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW007701.D (-522) (-)

Ion 57.00 (56.70 to 57.70): VW007701.D (-522) (-)

5.17

150

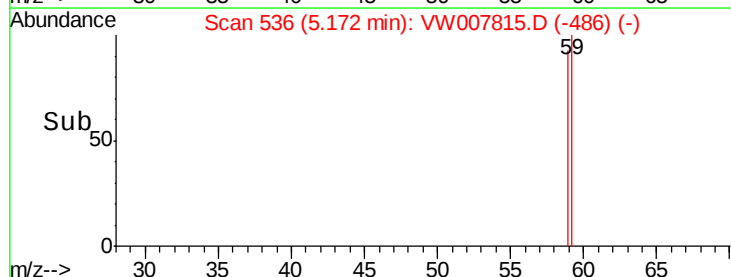
100

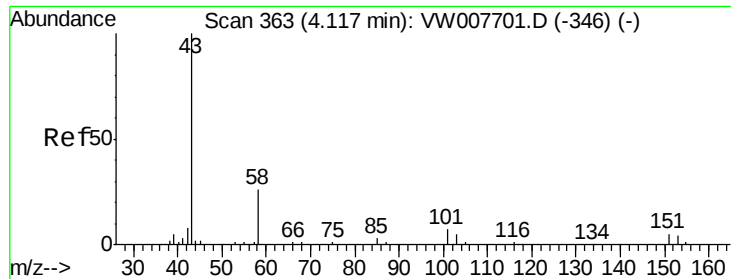
50

0

5.14 5.16 5.18 5.20

Time-->





#16

Acetone

Concen: 266.433 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Instrument :

MSVOA_W

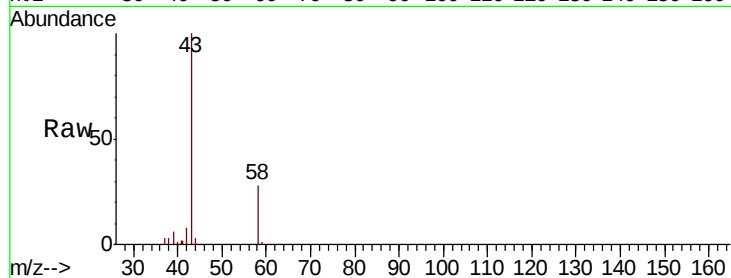
ClientSampleId :

Tot Ion: 43 Resp: 23857

Ion Ratio Lower Upper

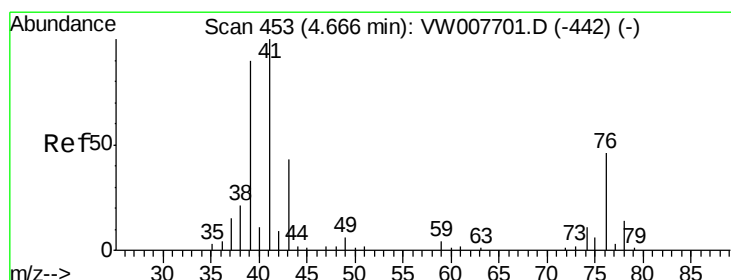
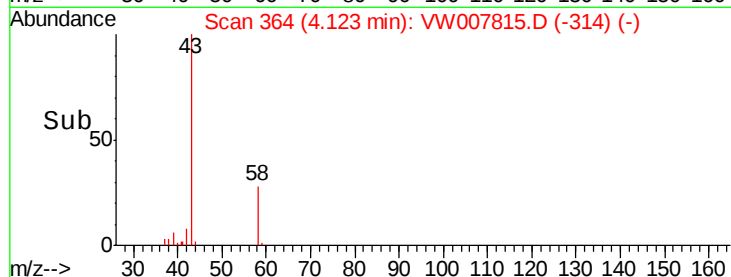
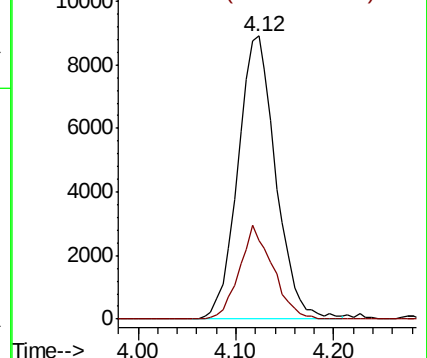
43 100

58 27.9 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 4.123 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW007815.D

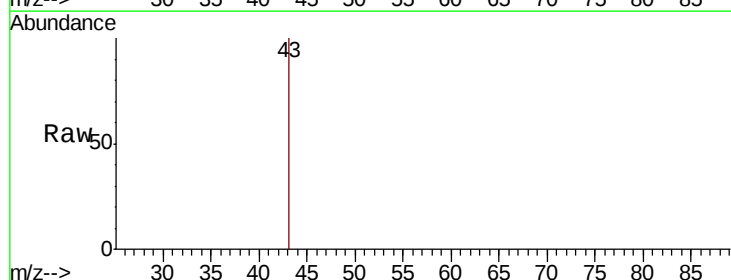
Acq: 22 Dec 2018 00:10

Tgt Ion: 43 Resp: 878

Ion Ratio Lower Upper

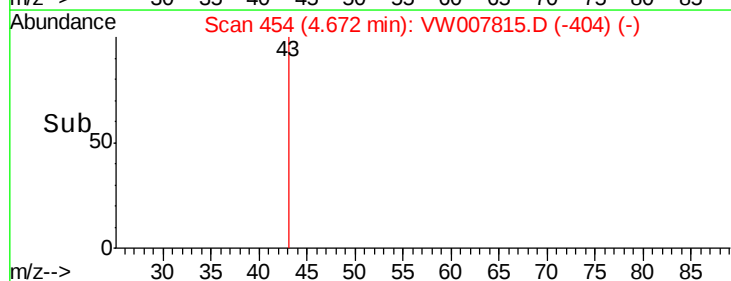
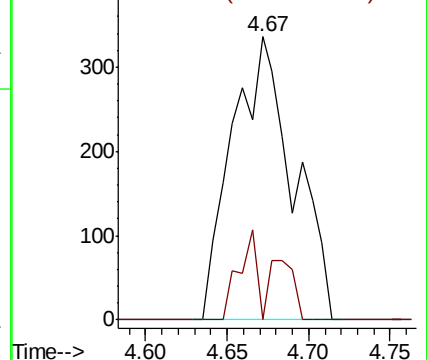
43 100

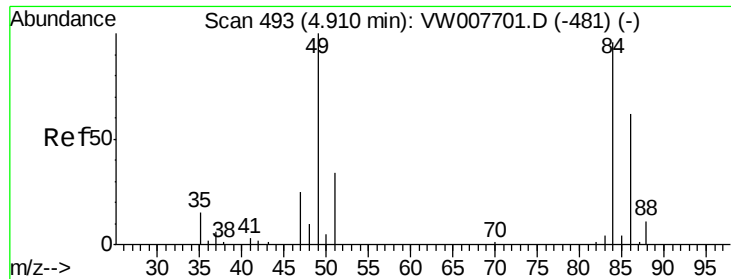
74 8.3 22.7 34.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

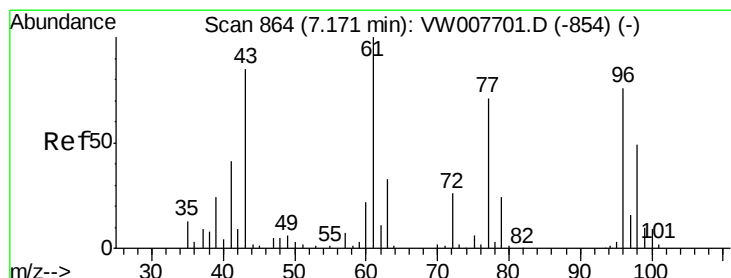
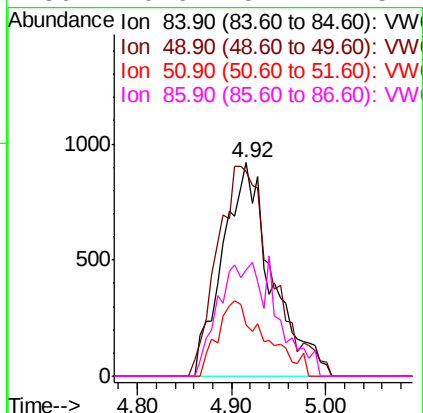
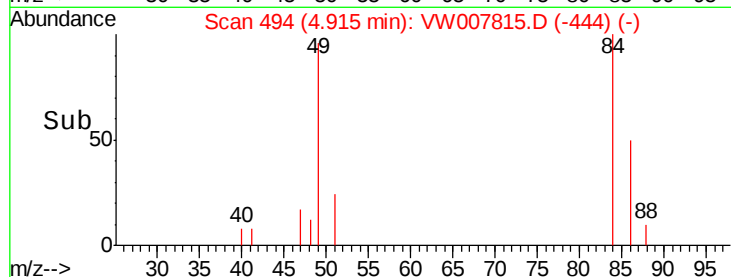
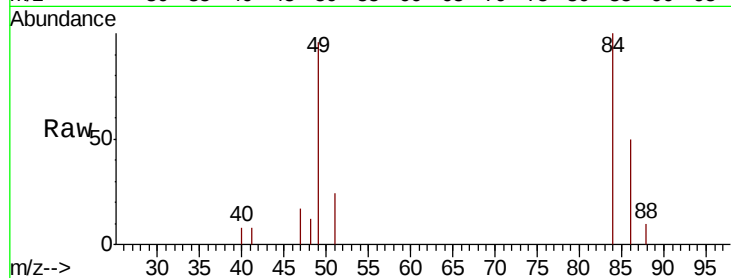




#20
Methvlene Chloride
Concen: 1.307 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

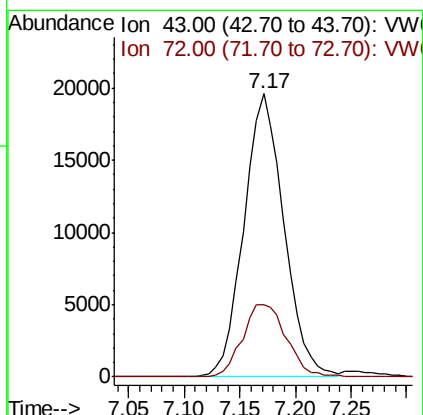
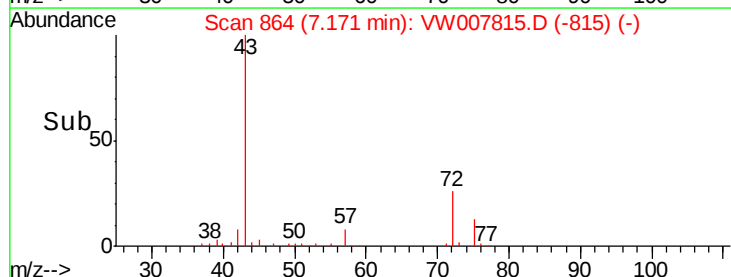
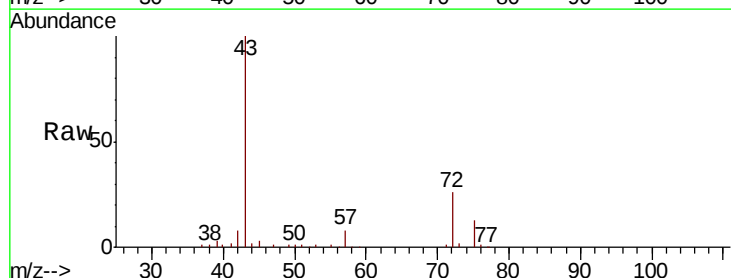
Instrument :
MSVOA_W
ClientSampled :

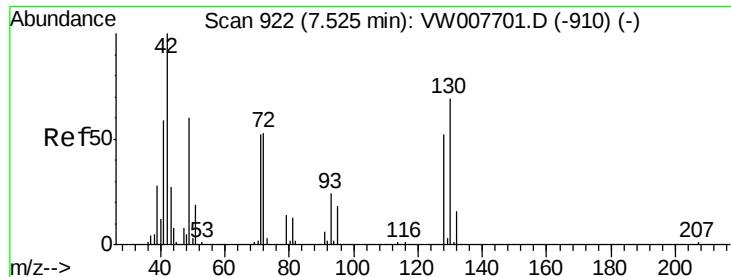
Tot Ion: 84 Resp: 3335
Ion Ratio Lower Upper
84 100
49 95.9 83.7 125.5
51 24.2 28.2 42.2#
86 49.6 52.2 78.2#



#25
2-Butanone
Concen: 468.897 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Tgt Ion: 43 Resp: 49178
Ion Ratio Lower Upper
43 100
72 25.6 24.5 36.7

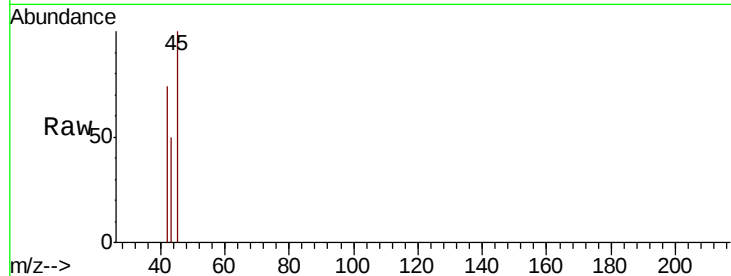




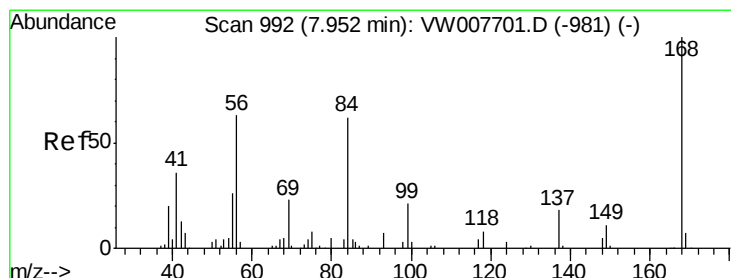
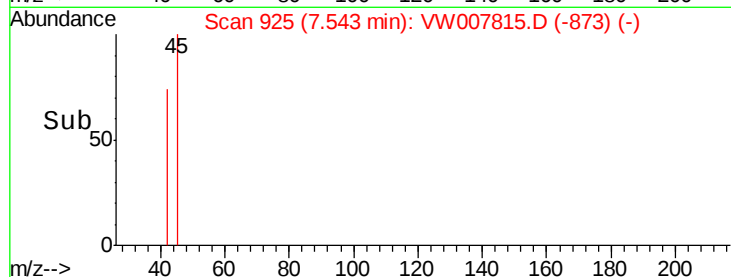
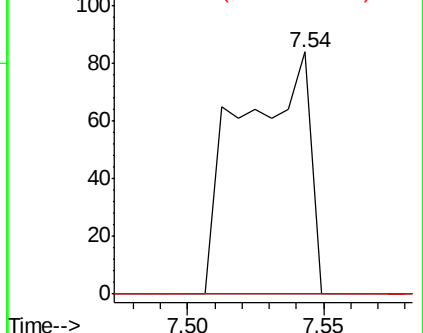
#29
Tetrahydrofuran
Concen: 2.334 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 42 Resp: 146
Ion Ratio Lower Upper
42 100
72 0.0 41.7 62.5#
71 0.0 39.0 58.6#

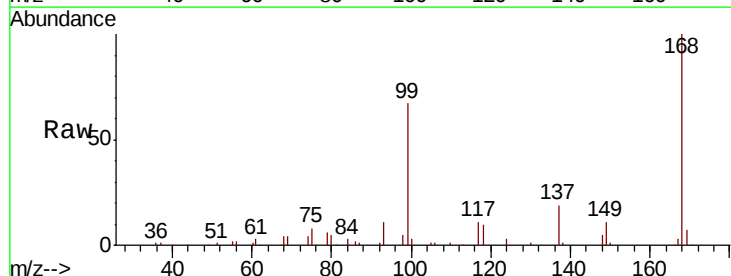


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

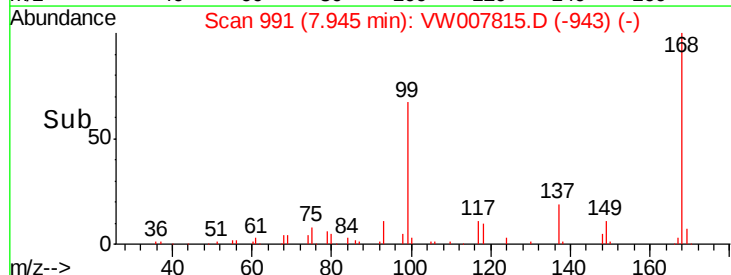
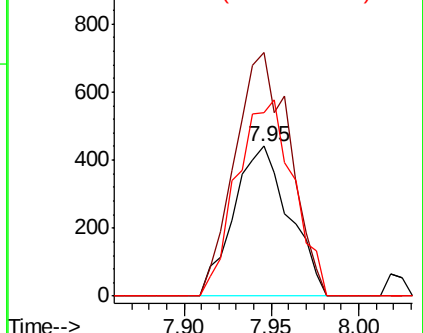


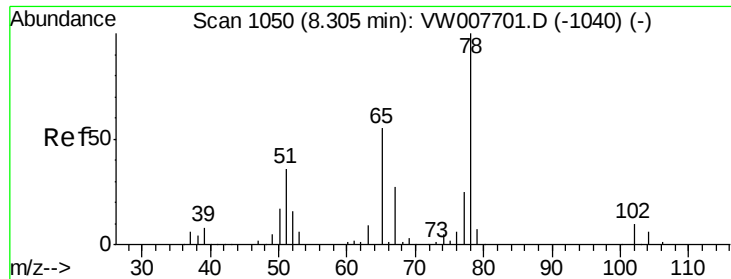
#31
Cyclohexane
Concen: 1.374 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Tgt Ion: 56 Resp: 978
Ion Ratio Lower Upper
56 100
69 162.4 29.7 44.5#
84 122.4 78.9 118.3#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

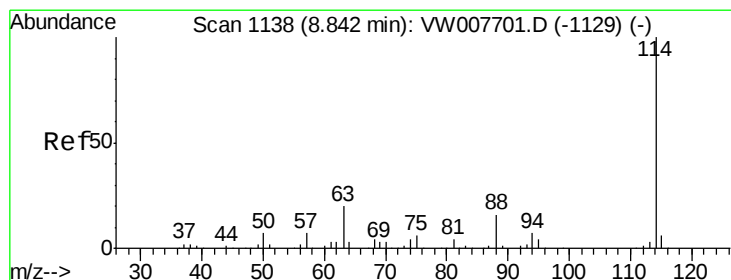
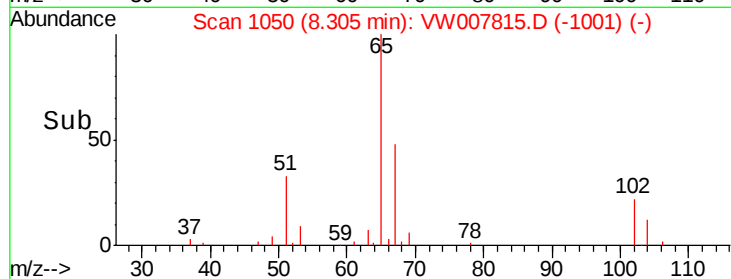
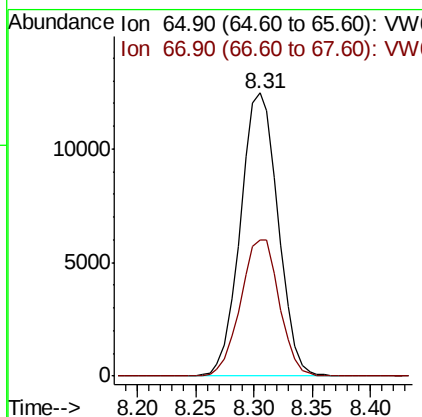
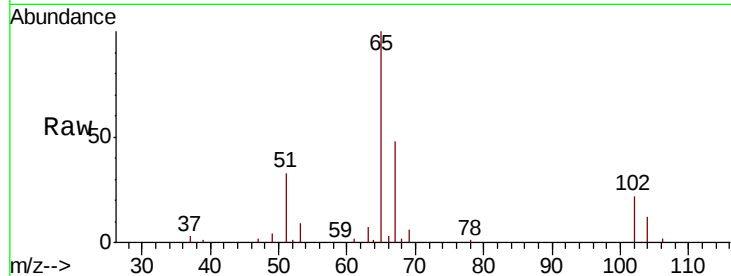




#33
 1,2-Dichloroethane-d4
 Concen: 58.717 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007815.D
 Acq: 22 Dec 2018 00:10

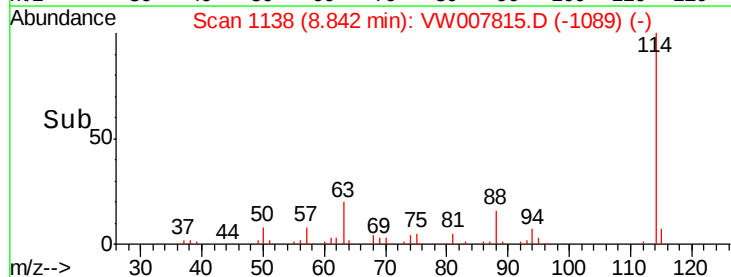
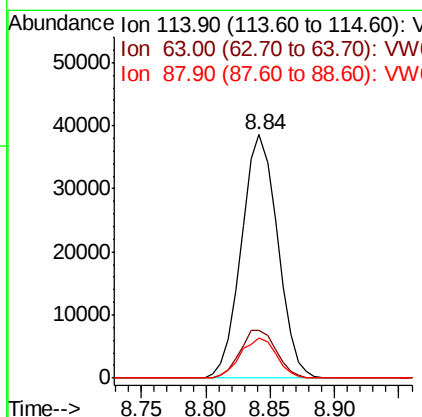
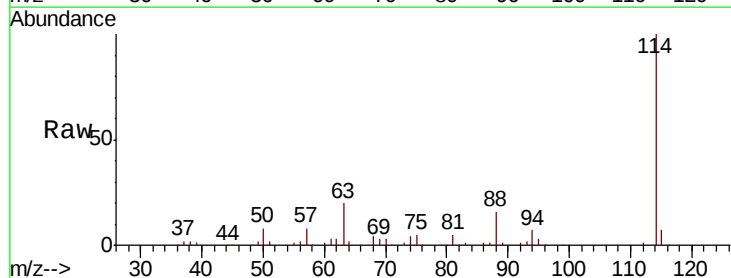
Instrument :
 MSVOA_W
 ClientSampled :

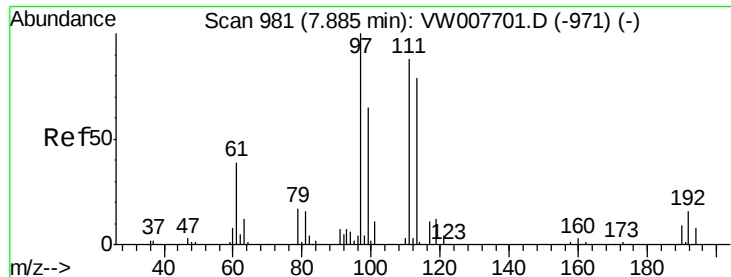
Tot Ion: 65 Resp: 28077
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007815.D
 Acq: 22 Dec 2018 00:10

Tgt Ion: 114 Resp: 75066
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 16.5 0.0 32.6

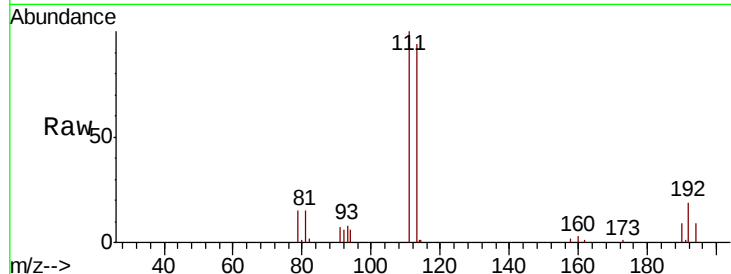




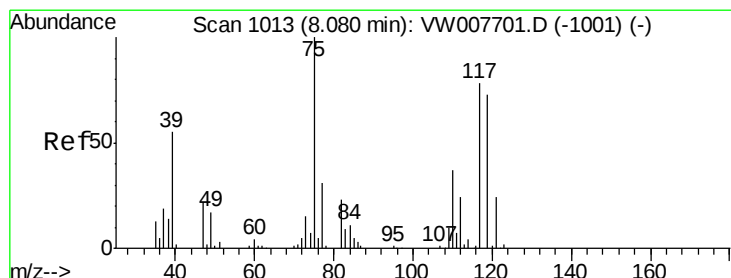
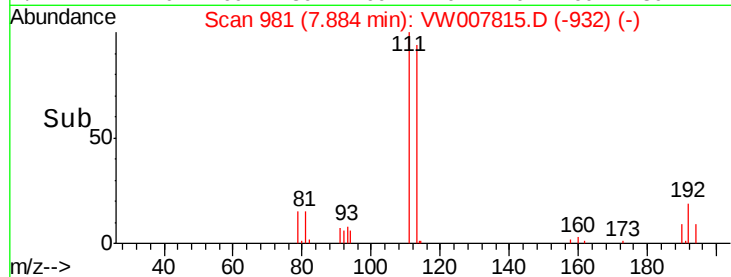
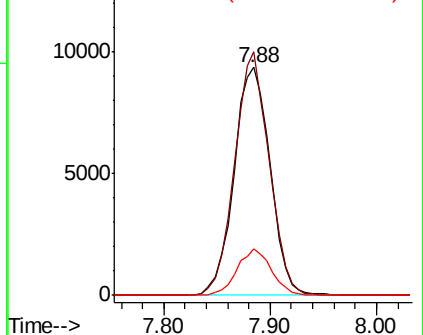
#35
 Dibromofluoromethane
 Concen: 48.668 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW007815.D
 Acq: 22 Dec 2018 00:10

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:113 Resp: 22287
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.6 124.0
 192 19.3 15.5 23.3

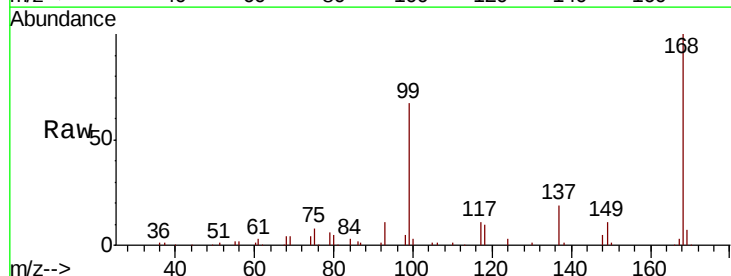


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

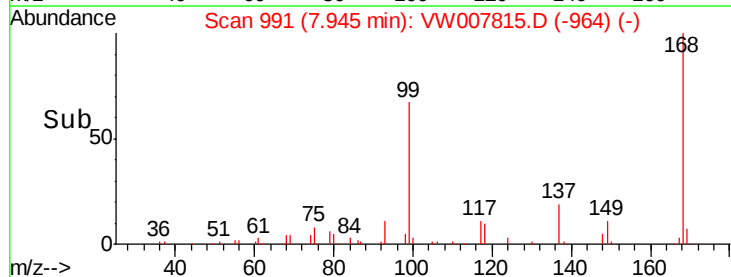
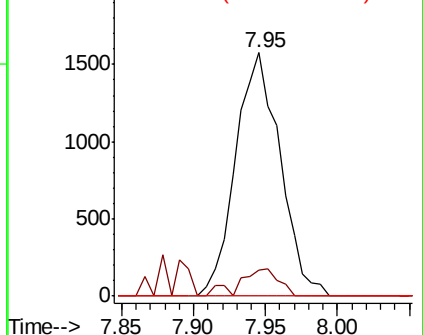


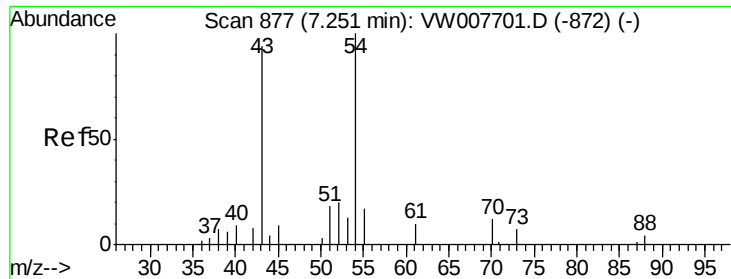
#36
 1,1-Dichloropropene
 Concen: 4.676 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007815.D
 Acq: 22 Dec 2018 00:10

Tgt Ion: 75 Resp: 3388
 Ion Ratio Lower Upper
 75 100
 110 9.9 18.6 55.8#
 77 0.0 25.0 37.4#



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

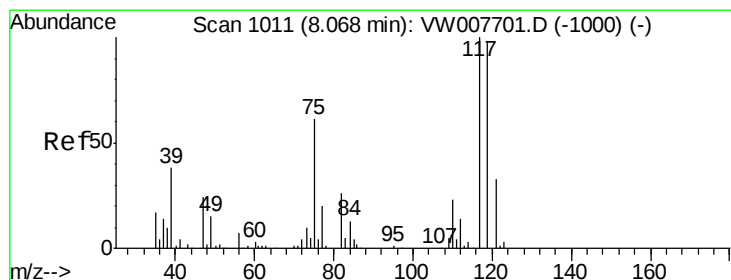
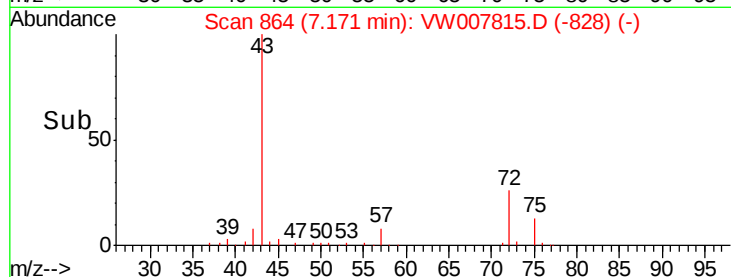
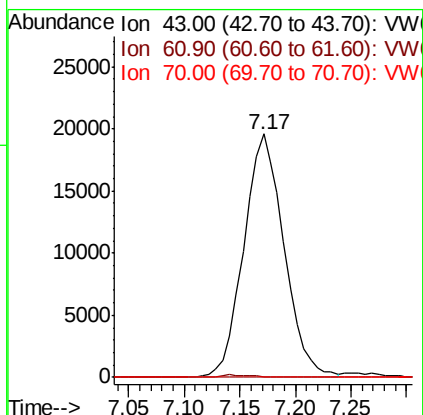
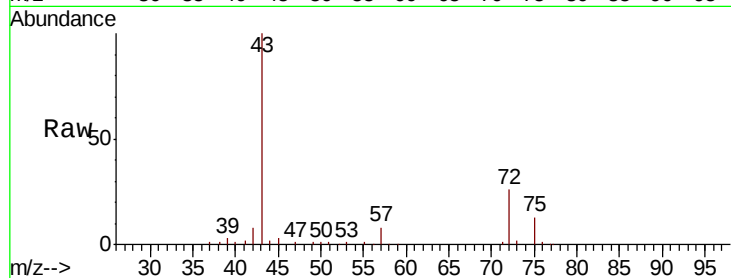




#37
Ethyl Acetate
Concen: 196.679 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.08 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

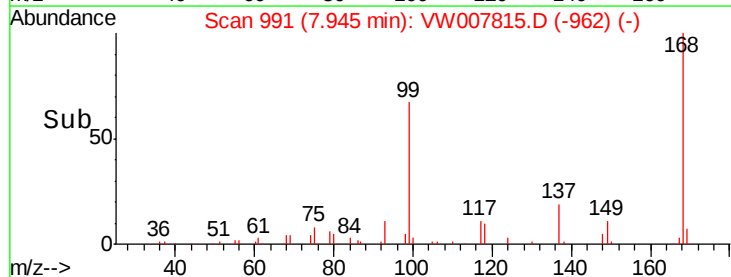
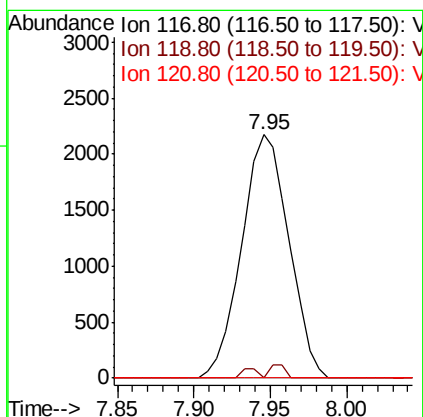
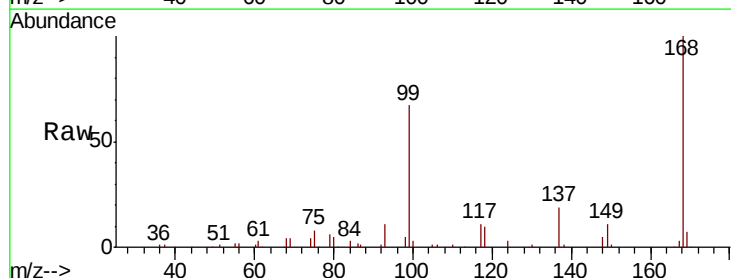
Instrument :
MSVOA_W
ClientSampled :

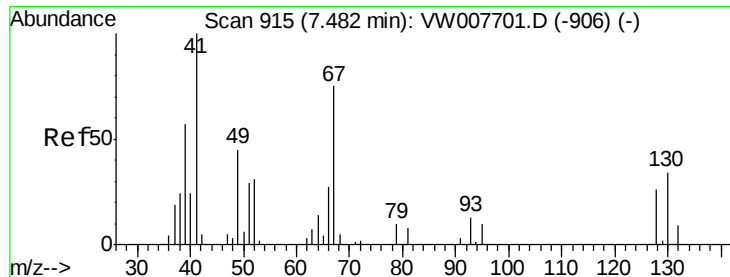
Tot Ion: 43 Resp: 49178
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 5.465 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Tgt Ion: 117 Resp: 4663
Ion Ratio Lower Upper
117 100
119 0.0 78.2 117.2#
121 0.0 26.1 39.1#

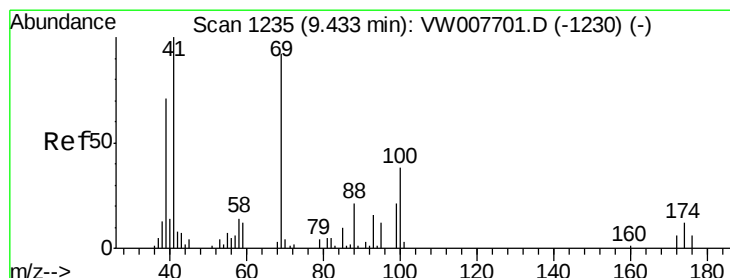
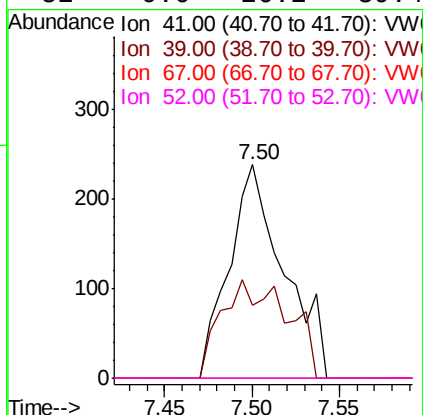
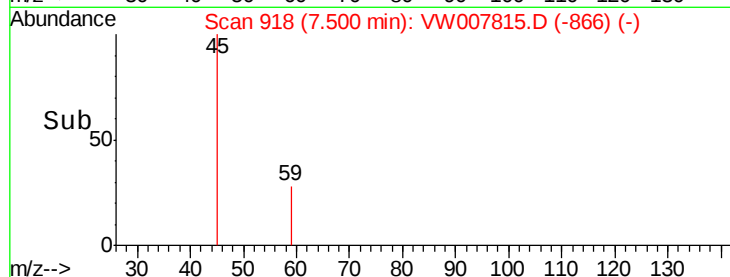
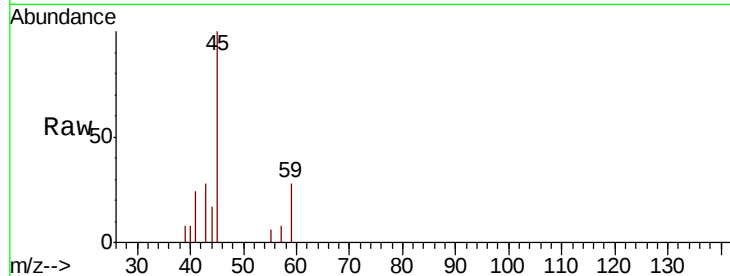




#41
Methacrylonitrile
Concen: 3.677 ug/l
RT: 7.50 min Scan# 918
Delta R.T. 0.02 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

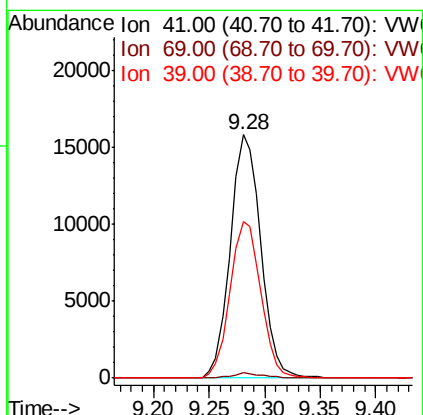
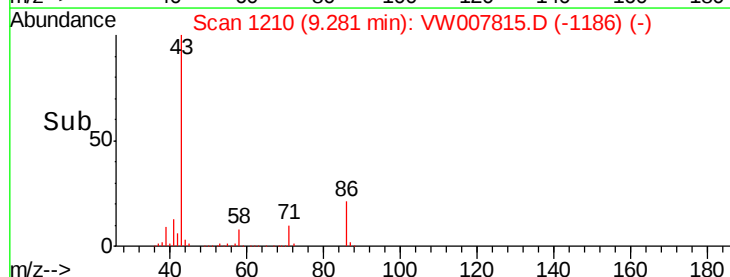
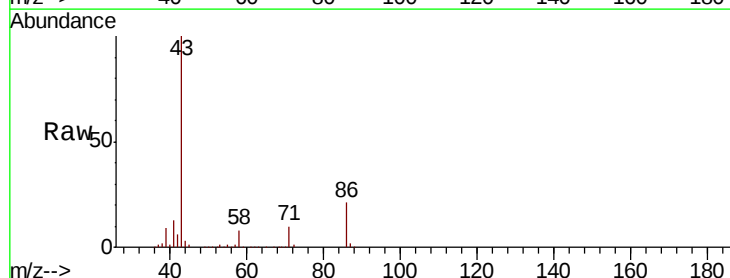
Instrument :
MSVOA_W
ClientSampleId :

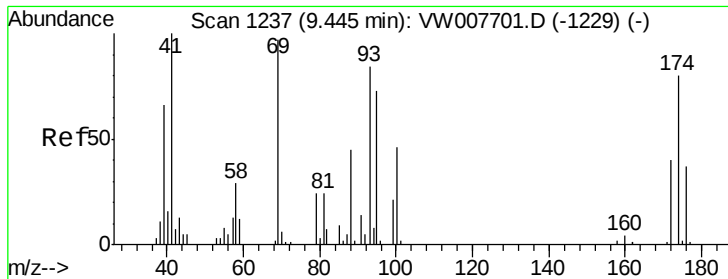
Tot Ion: 41 Resp: 522
Ion Ratio Lower Upper
41 100
39 55.4 54.2 81.4
67 0.0 65.7 98.5#
52 0.0 26.2 39.4#



#48
Methyl methacrylate
Concen: 119.932 ug/l
RT: 9.28 min Scan# 1210
Delta R.T. -0.15 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Tgt Ion: 41 Resp: 29989
Ion Ratio Lower Upper
41 100
69 2.0 74.2 111.2#
39 65.0 53.9 80.9





#49

1,4-Dioxane

Concen: 24.840 ug/l

RT: 9.27 min Scan# 1209

Delta R.T. -0.17 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Instrument :

MSVOA_W

ClientSampleId :

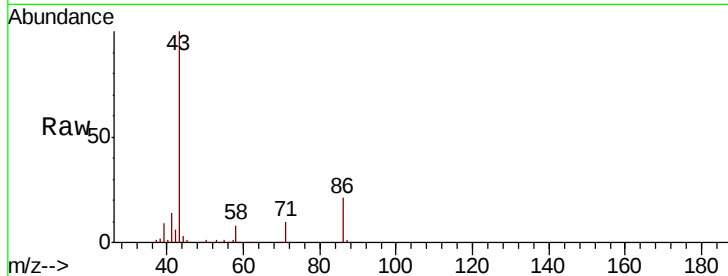
Tot Ion: 88 Resp: 104

Ion Ratio Lower Upper

88 100

43 211324.0 25.6 38.4#

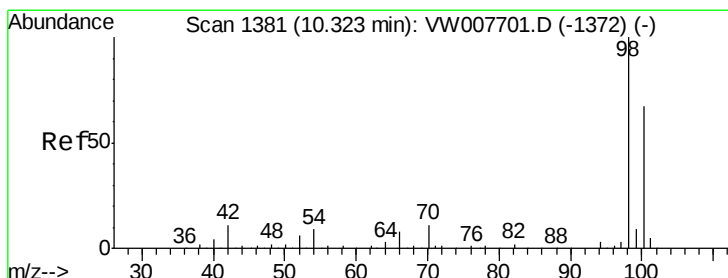
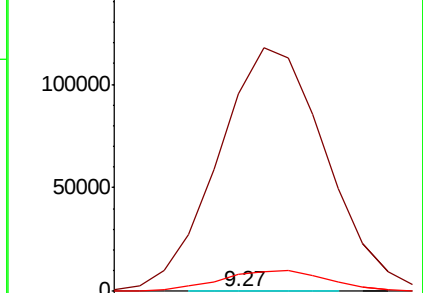
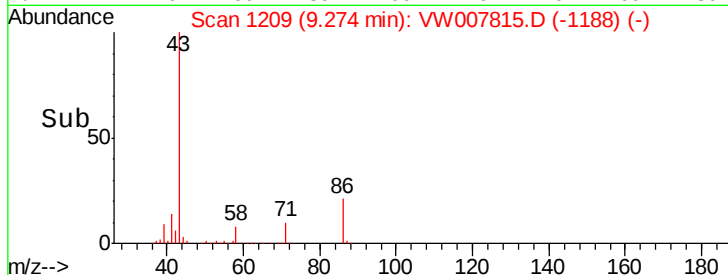
58 18388.5 52.3 78.5#



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: 32.878 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007815.D

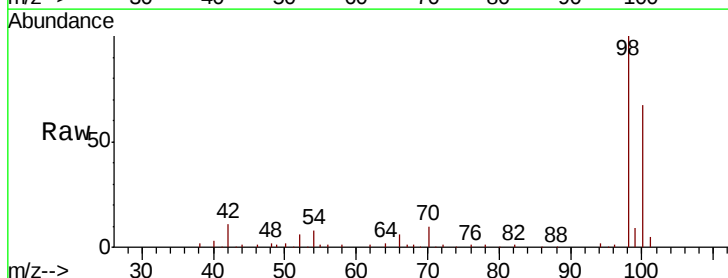
Acq: 22 Dec 2018 00:10

Tgt Ion: 98 Resp: 56760

Ion Ratio Lower Upper

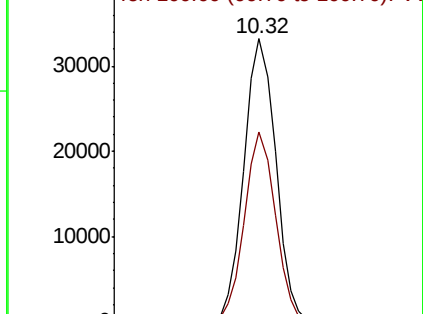
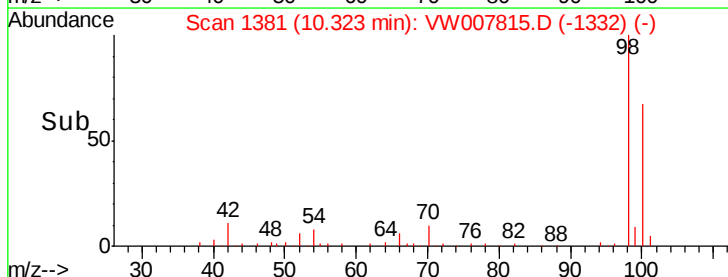
98 100

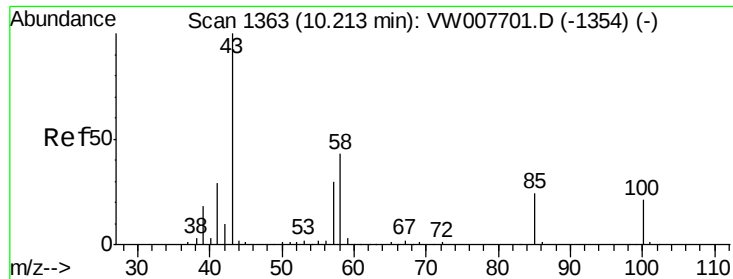
100 65.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 4.406 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Instrument :

MSVOA_W

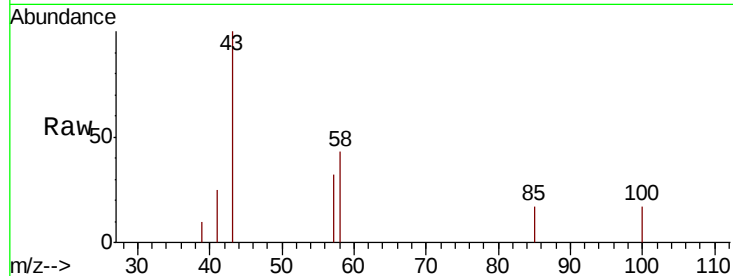
ClientSampled :

Tot Ion: 43 Resp: 1043

Ion Ratio Lower Upper

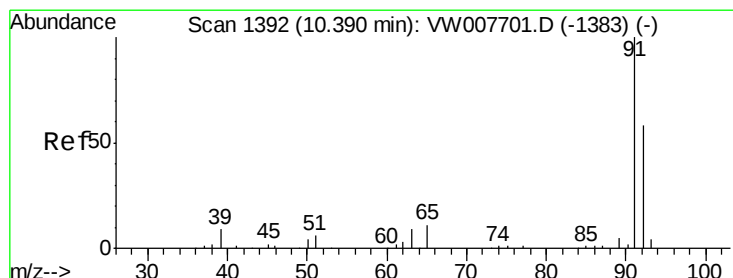
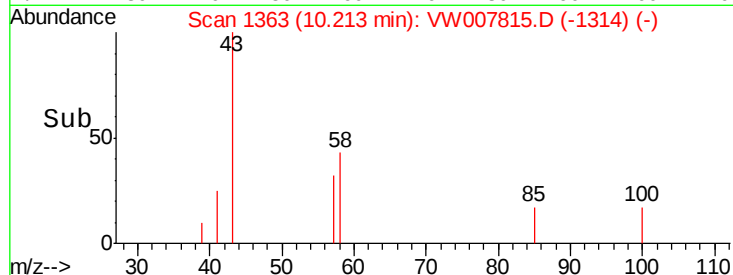
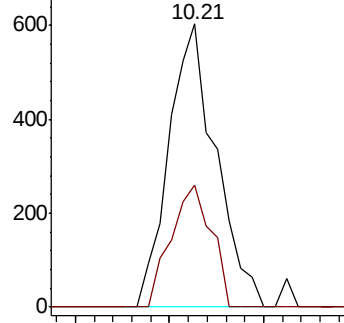
43 100

58 36.9 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 1.156 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007815.D

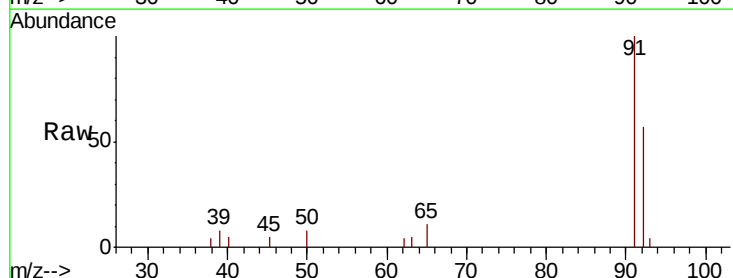
Acq: 22 Dec 2018 00:10

Tgt Ion: 92 Resp: 1500

Ion Ratio Lower Upper

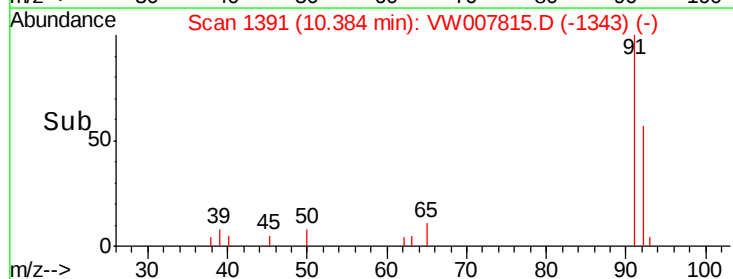
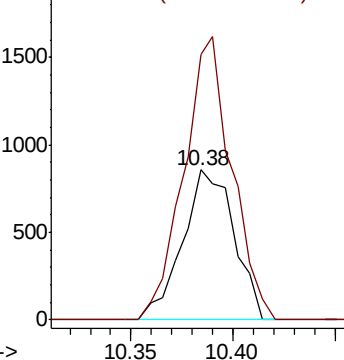
92 100

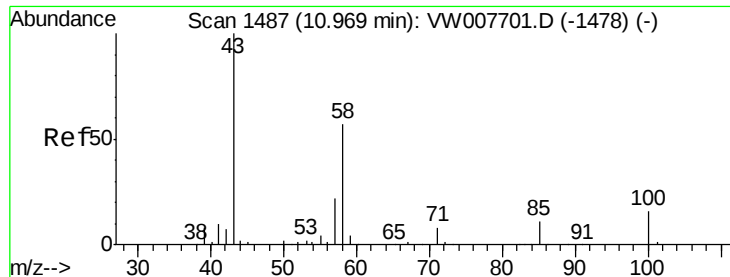
91 176.1 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#59

2-Hexanone

Concen: 149.366 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Instrument :

MSVOA_W

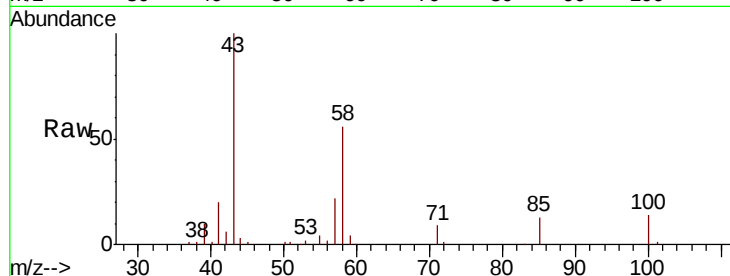
ClientSampleId :

Tot Ion: 43 Resp: 24869

Ion Ratio Lower Upper

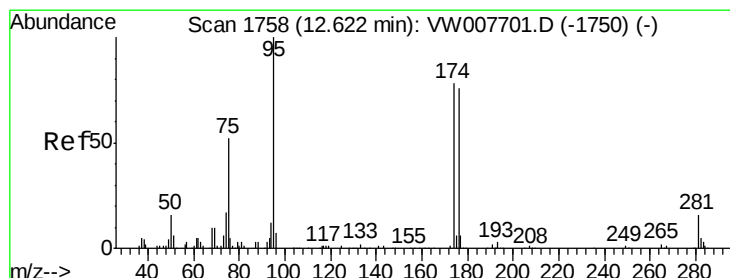
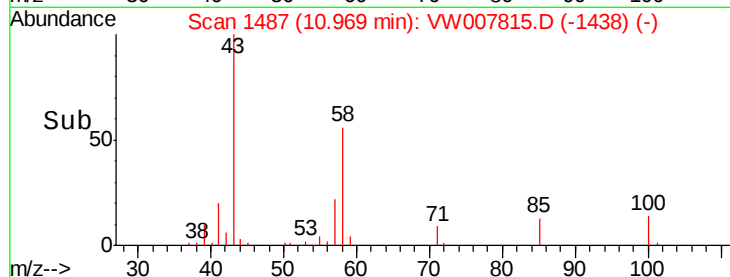
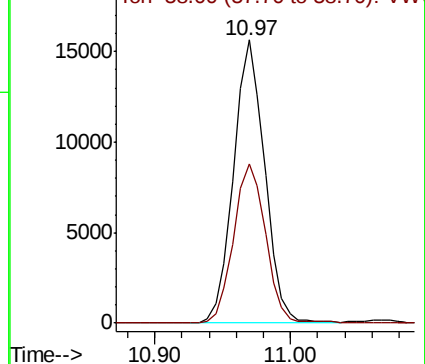
43 100

58 57.5 27.7 83.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 19.168 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

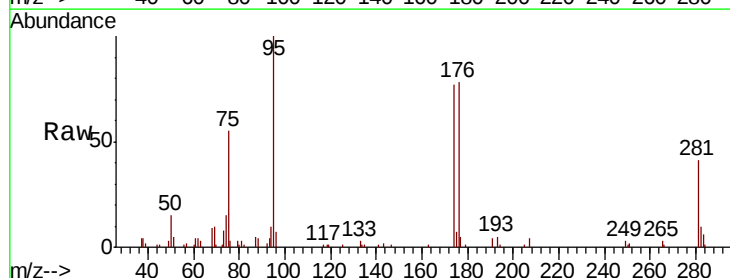
Tgt Ion: 95 Resp: 12784

Ion Ratio Lower Upper

95 100

174 76.7 0.0 152.2

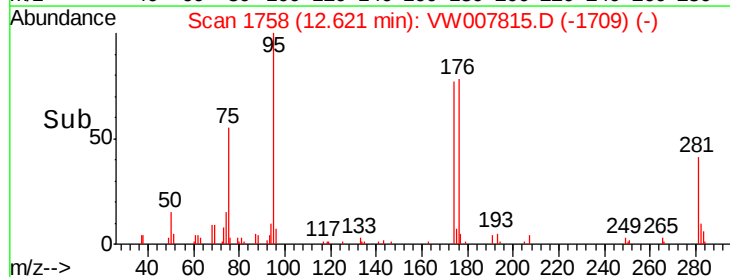
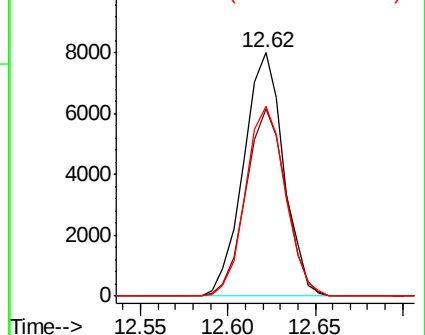
176 77.2 0.0 146.8

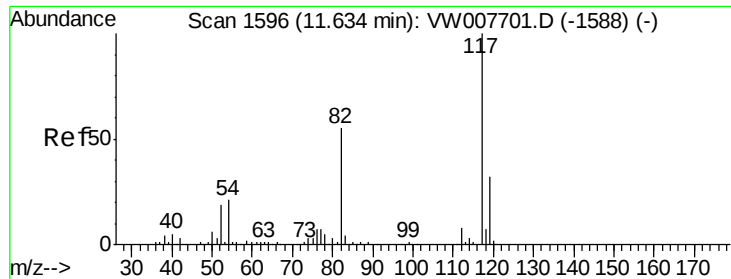


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

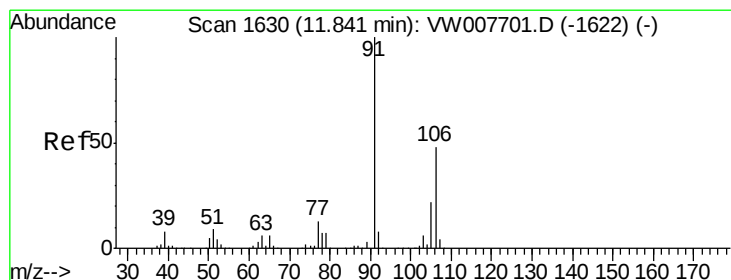
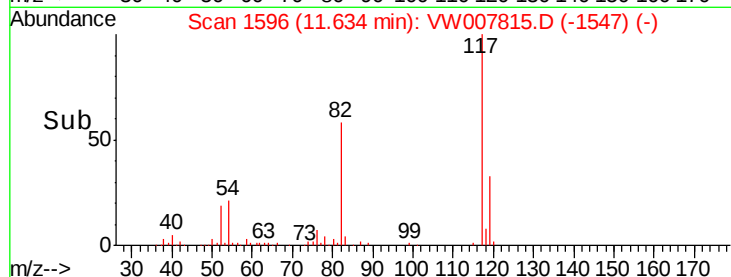
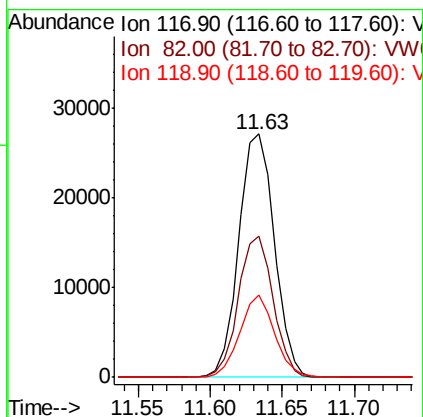
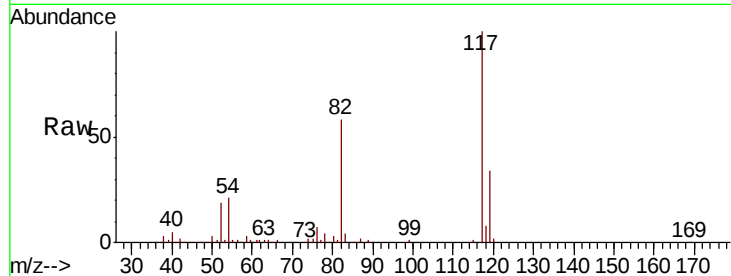




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

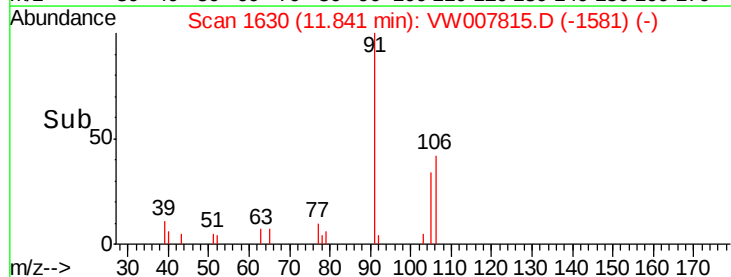
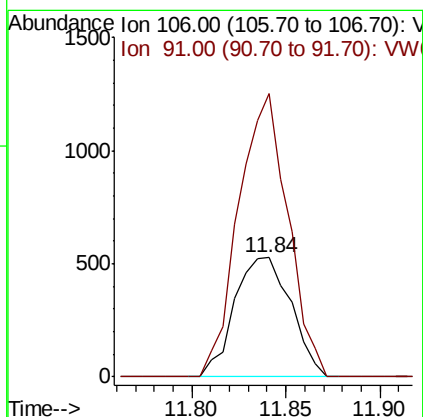
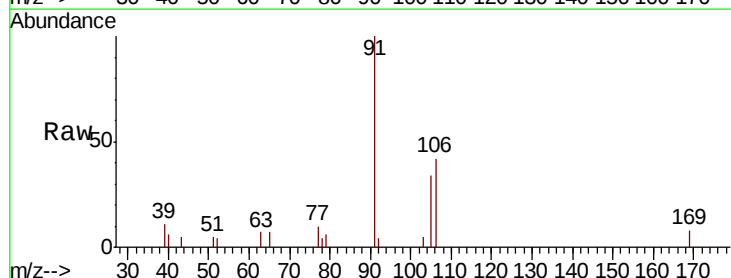
Instrument :
MSVOA_W
ClientSampleId :

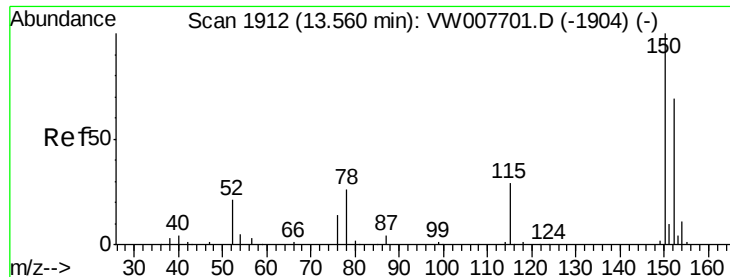
Tot Ion:117 Resp: 46561
Ion Ratio Lower Upper
117 100
82 58.2 44.3 66.5
119 33.5 25.7 38.5



#68
m/p-Xylenes
Concen: 1.632 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Tgt Ion:106 Resp: 1095
Ion Ratio Lower Upper
106 100
91 207.6 165.2 247.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Instrument :

MSVOA_W

ClientSampled :

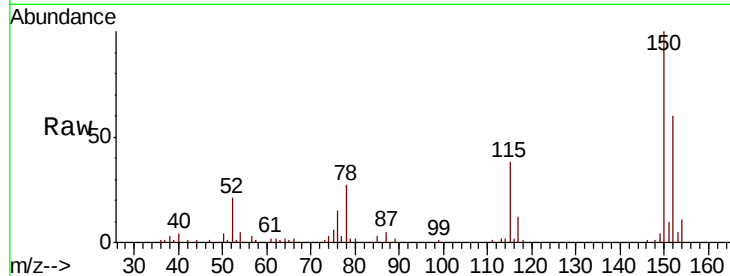
Tot Ion:152 Resp: 11045

Ion Ratio Lower Upper

152 100

115 61.5 31.8 95.4

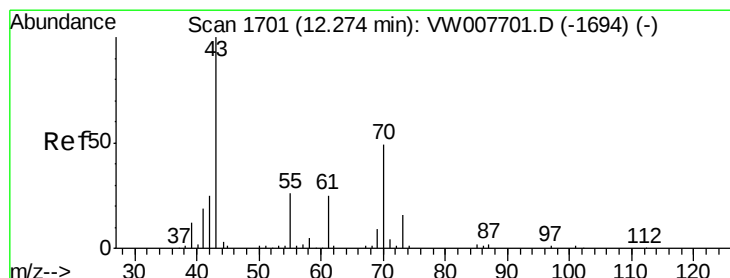
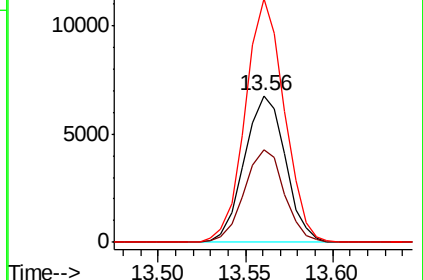
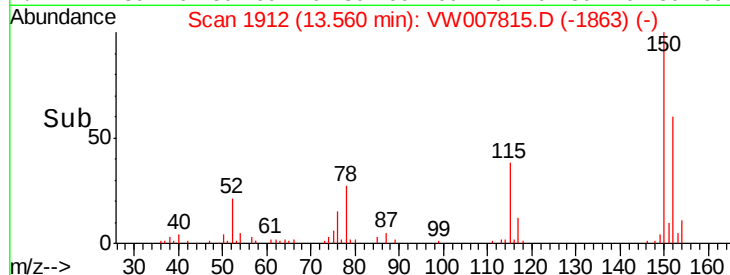
150 157.7 0.0 350.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2180.361 ug/l

RT: 12.24 min Scan# 1695

Delta R.T. -0.04 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Tgt Ion: 43 Resp: 315309

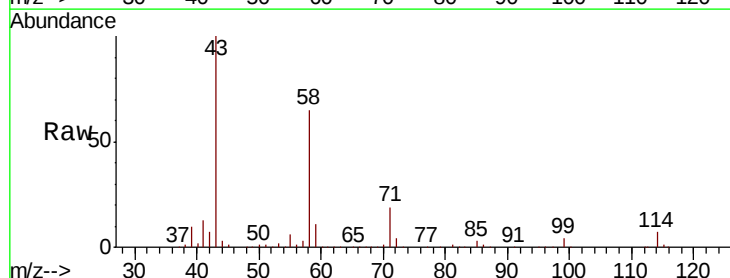
Ion Ratio Lower Upper

43 100

70 0.5 37.6 56.4#

55 5.9 21.7 32.5#

61 0.1 20.1 30.1#

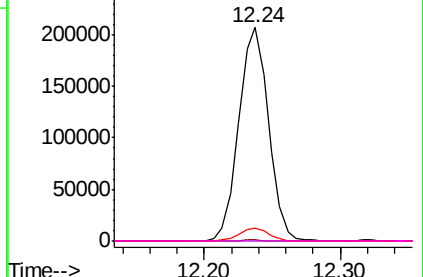
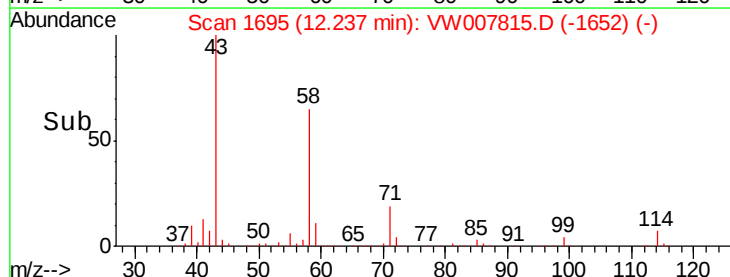


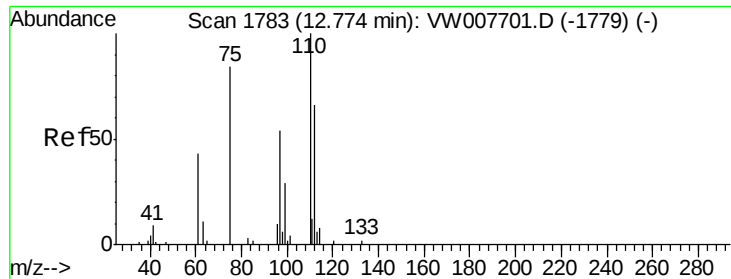
Abundance Ion 43.00 (42.70 to 43.70): VW

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





#76

1,2,3-Trichloropropane

Concen: 80.124 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

Instrument :

MSVOA_W

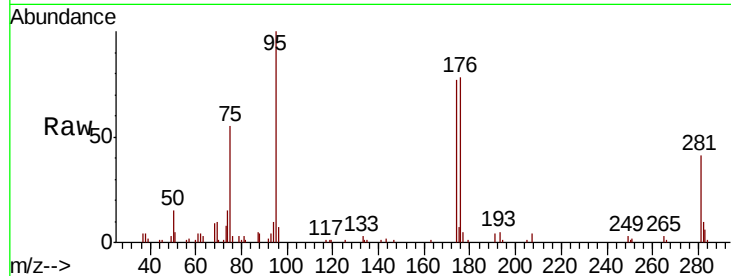
ClientSampleId :

Tot Ion: 75 Resp: 6840

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

4000

3000

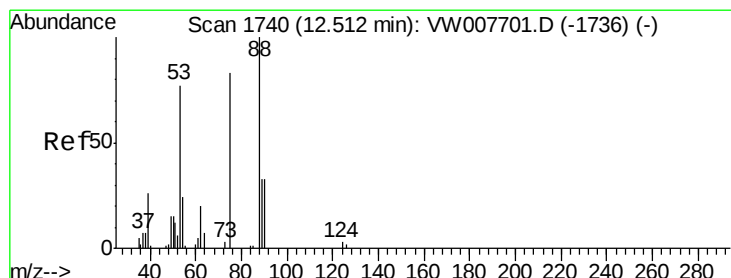
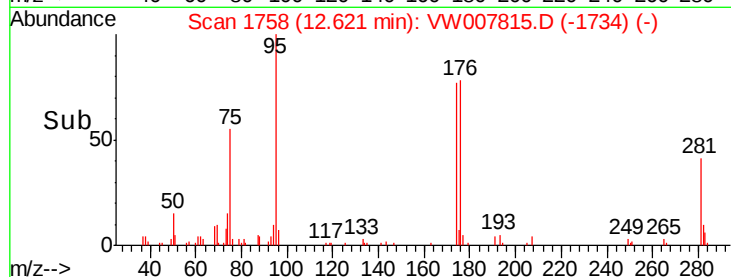
2000

1000

0

12.55 12.60 12.65

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 168.186 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007815.D

Acq: 22 Dec 2018 00:10

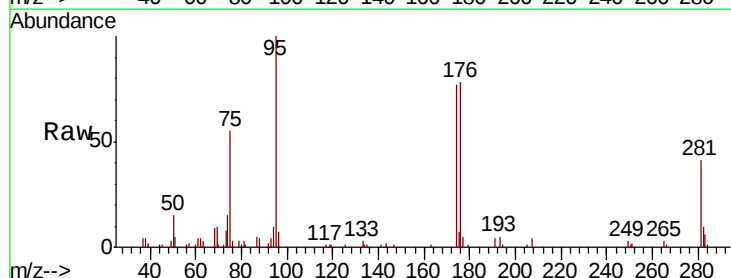
Tgt Ion: 75 Resp: 6840

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

6000

5000

4000

3000

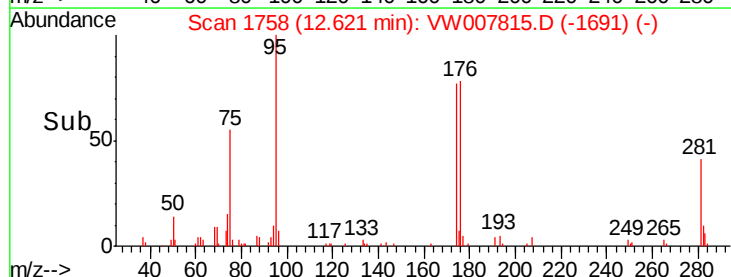
2000

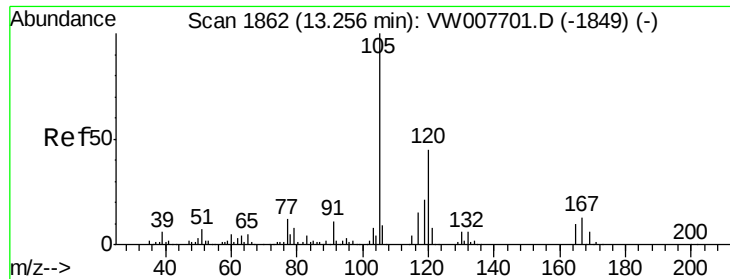
1000

0

12.55 12.60 12.65

Time-->

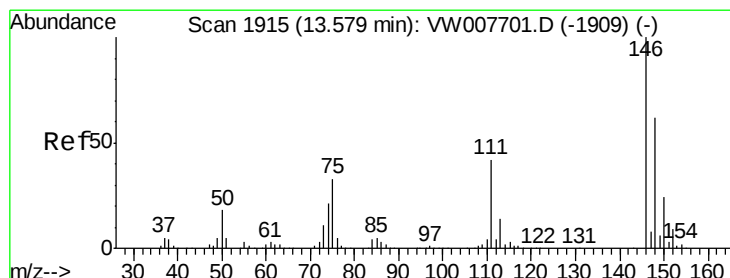
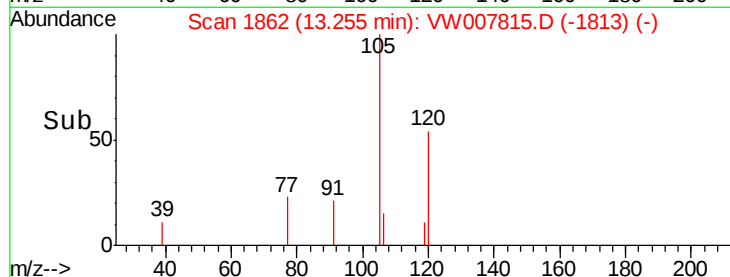
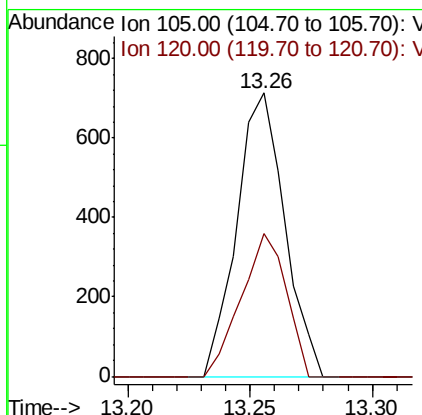
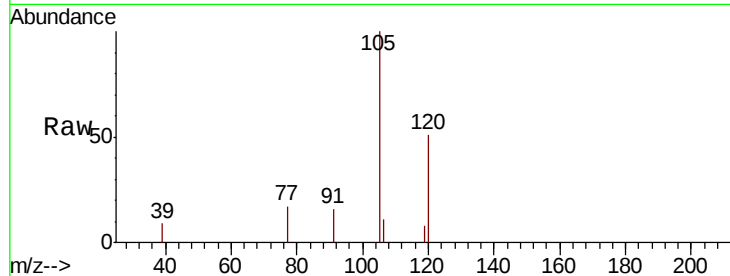




#84
 1,2,4-Trimethylbenzene
 Concen: 1.336 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007815.D
 Acq: 22 Dec 2018 00:10

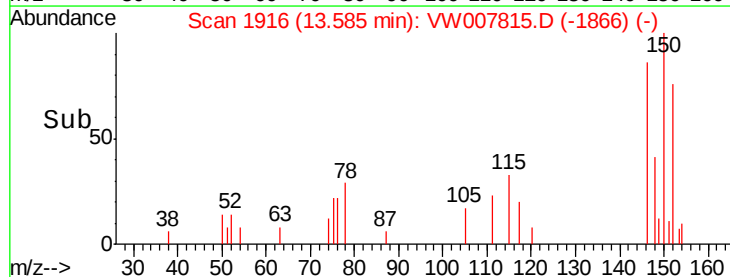
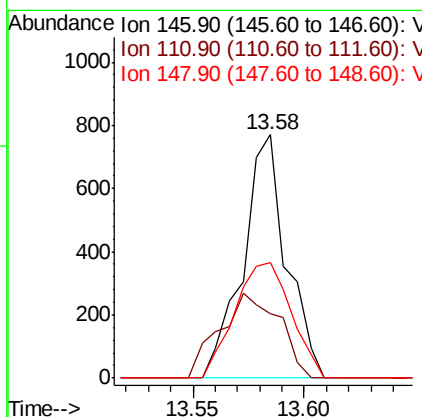
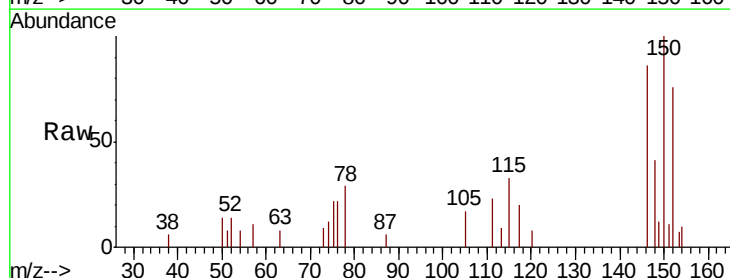
Instrument :
 MSVOA_W
 ClientSampled :

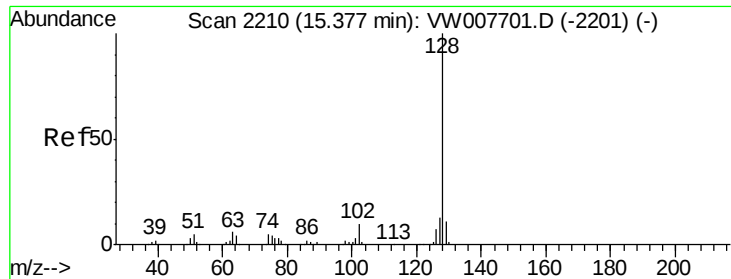
Tot Ion:105 Resp: 971
 Ion Ratio Lower Upper
 105 100
 120 47.5 22.0 66.0



#88
 1,4-Dichlorobenzene
 Concen: 2.761 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VW007815.D
 Acq: 22 Dec 2018 00:10

Tgt Ion:146 Resp: 1049
 Ion Ratio Lower Upper
 146 100
 111 47.7 21.0 63.0
 148 61.3 31.8 95.4





#95
Naphthalene
Concen: 2.046 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW007815.D
Acq: 22 Dec 2018 00:10

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	2.4	10.7	16.1#
129	0.0	8.8	13.2#

