

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092718\
 Data File : VW005715.D
 Acq On : 27 Sep 2018 21:44
 Operator : VA/AP
 Sample : J4776-05RE
 Misc : 6.77G/5ML/MSVOA_W/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-092718-ARE

Quant Time: Sep 28 01:24:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 09:05:42 2018
 Response via : Initial Calibration

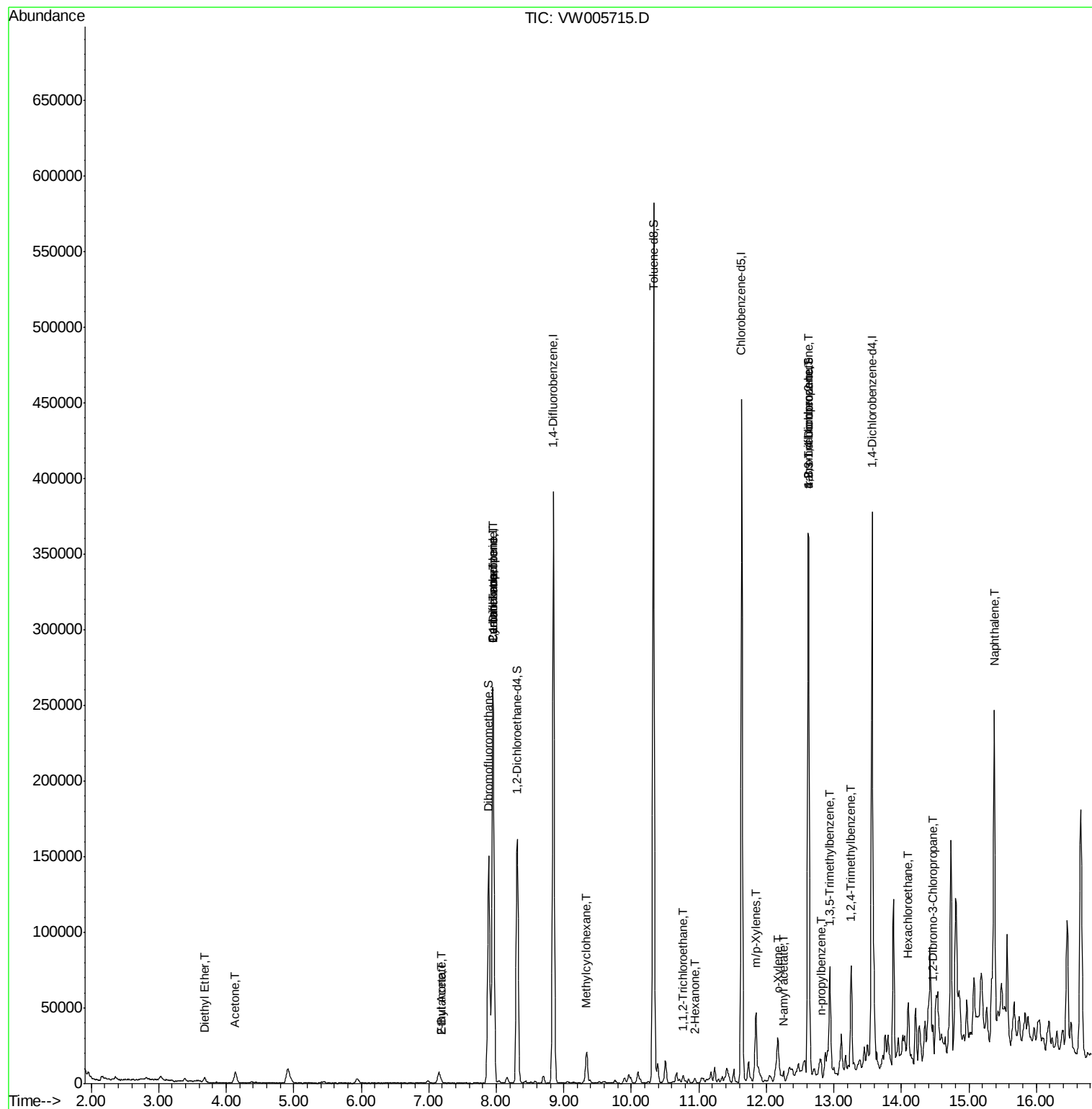
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	189014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	308477	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	251355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	92309	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	135760	60.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.94%	
35) Dibromofluoromethane	7.89	113	105918	54.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.20%	
50) Toluene-d8	10.33	98	374179	47.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.74%	
62) 4-Bromofluorobenzene	12.62	95	116521	39.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	22	Below Cal	#	41
8) Diethyl Ether	3.68	74	1847	1.991	ug/l	94
13) Acrolein	3.92	56	44	Below Cal	#	13
16) Acetone	4.14	43	12903	28.499	ug/l	99
20) Methylene Chloride	4.92	84	7161	Below Cal		93
25) 2-Butanone	7.19	43	1702	3.147	ug/l	93
31) Cyclohexane	7.95	56	6330	1.834	ug/l #	13
36) 1,1-Dichloropropene	7.95	75	14451	4.654	ug/l #	51
37) Ethyl Acetate	7.19	43	1702	1.302	ug/l #	70
38) Carbon Tetrachloride	7.95	117	18568	5.580	ug/l #	16
39) Methylcyclohexane	9.34	83	7239	1.976	ug/l	94
55) 1,1,2-Trichloroethane	10.76	97	1623	1.057	ug/l #	16
59) 2-Hexanone	10.94	43	1221	1.389	ug/l #	27
68) m/p-Xylenes	11.84	106	7309	2.043	ug/l	99
69) o-Xylene	12.17	106	6834	2.039	ug/l	98
74) N-amyl acetate	12.26	43	1836	1.267	ug/l #	48
76) 1,2,3-Trichloropropane	12.62	75	61240	77.827	ug/l #	100
78) n-propylbenzene	12.81	91	8393	1.083	ug/l	94
80) 1,3,5-Trimethylbenzene	12.95	105	14353	2.579	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	61240	175.290	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.26	105	37953	6.757	ug/l	95
90) Hexachloroethane	14.10	117	1822	1.654	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.47	75	210	1.037	ug/l #	4
95) Naphthalene	15.38	128	185786	57.171	ug/l	99

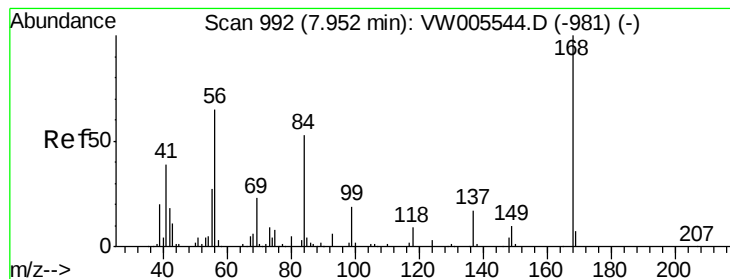
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

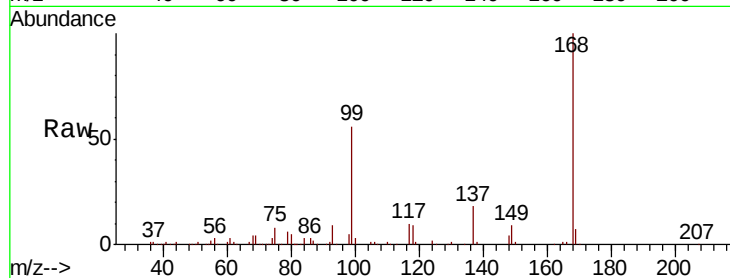
EO-01-092718-ARE

Tgt Ion:168 Resp: 189014

Ion Ratio Lower Upper

168 100

99 56.3 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

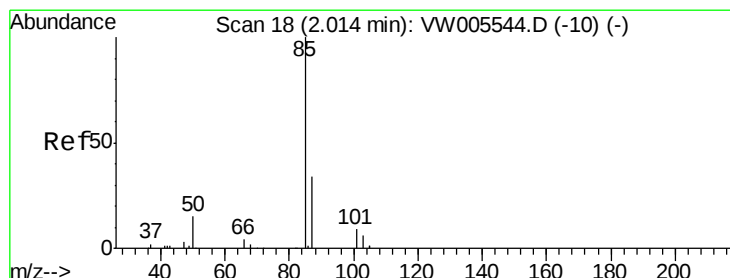
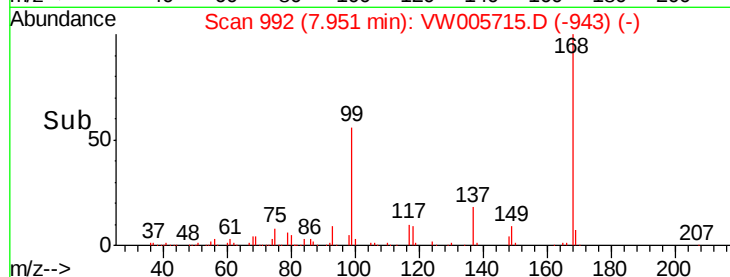
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW005715.D

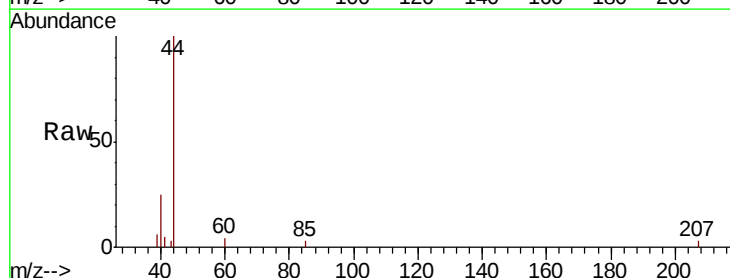
Acq: 27 Sep 2018 21:44

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 17.0 50.9#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

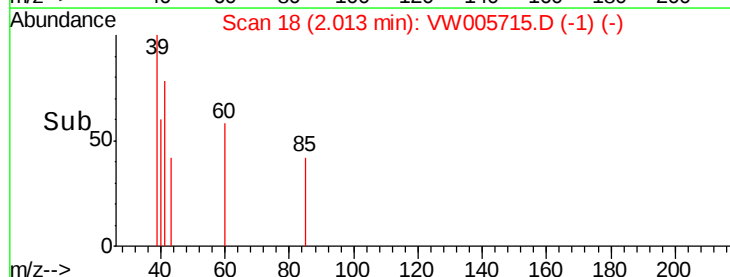
60

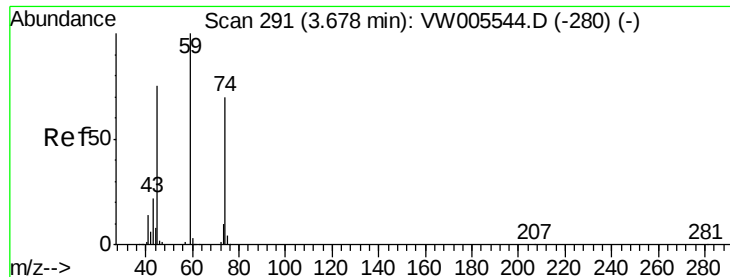
40

20

0

Time--> 1.99 2.00 2.01 2.02 2.03





#8

Diethyl Ether

Concen: 1.991 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

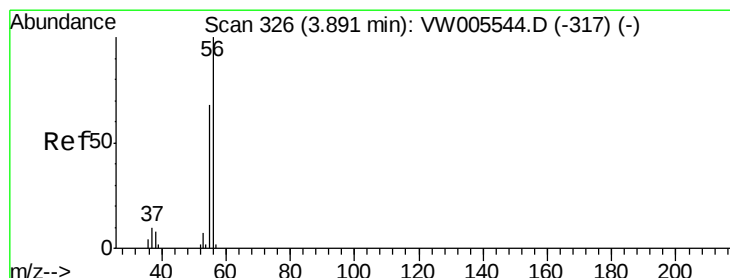
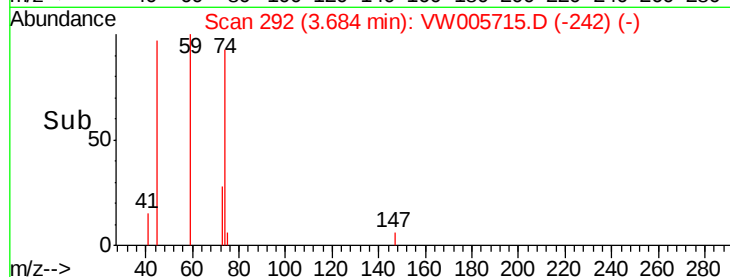
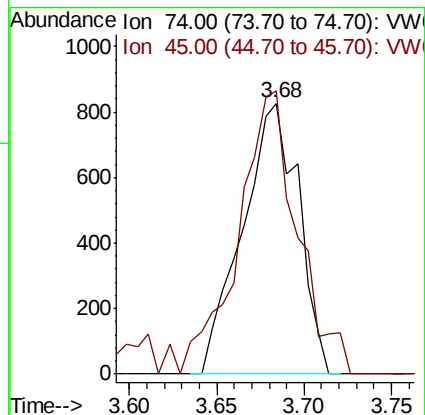
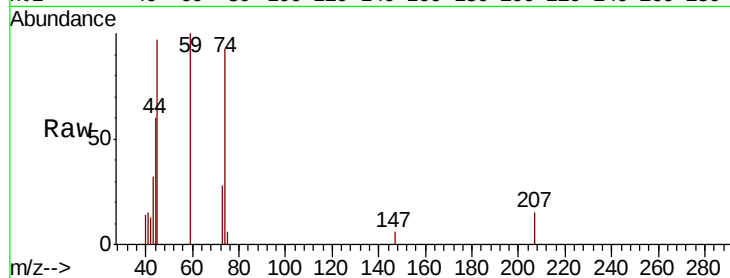
Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

Tgt Ion: 74 Resp: 1847

Ion Ratio Lower Upper

74 100

45 109.8 51.7 155.2



#13

Acrolein

Concen: Below Cal

RT: 3.92 min Scan# 330

Delta R.T. 0.02 min

Lab File: VW005715.D

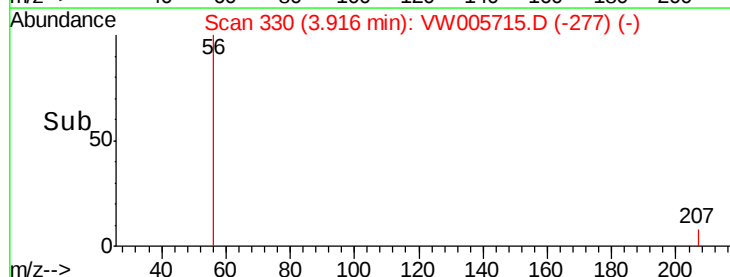
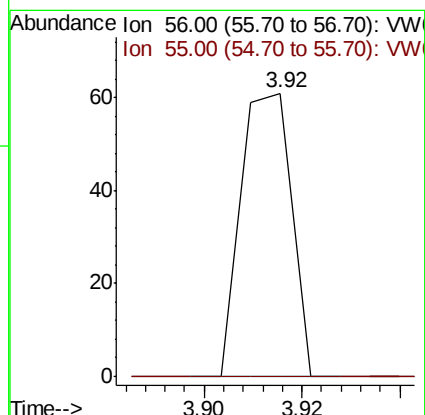
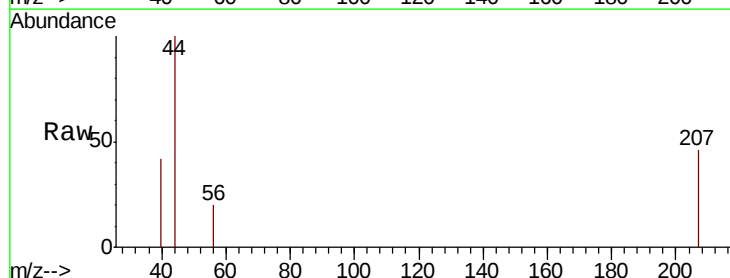
Acq: 27 Sep 2018 21:44

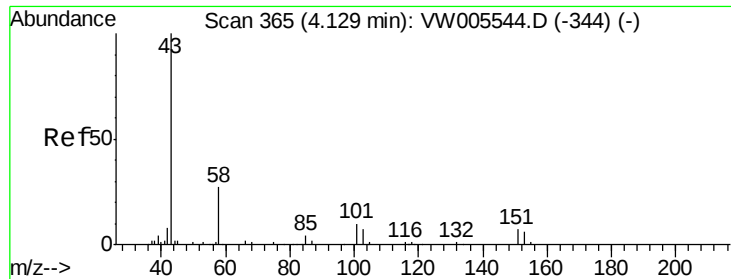
Tgt Ion: 56 Resp: 44

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.8#

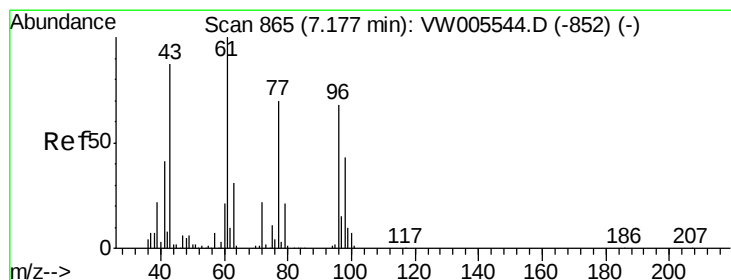
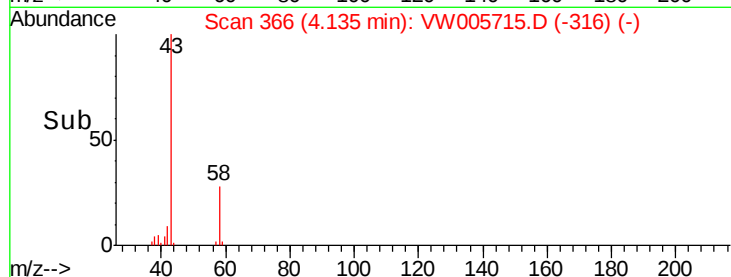
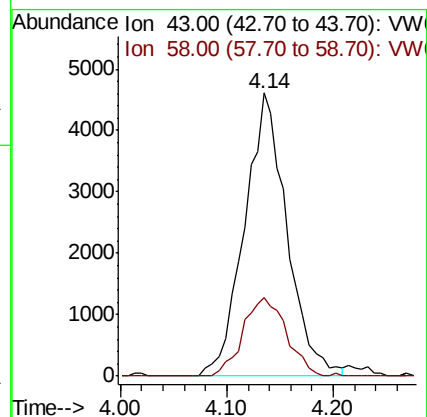
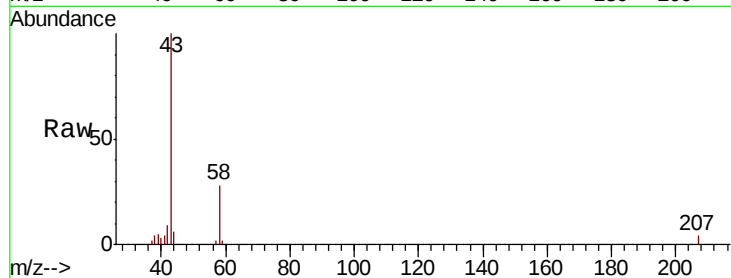




#16
Acetone
Concen: 28.499 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.01 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

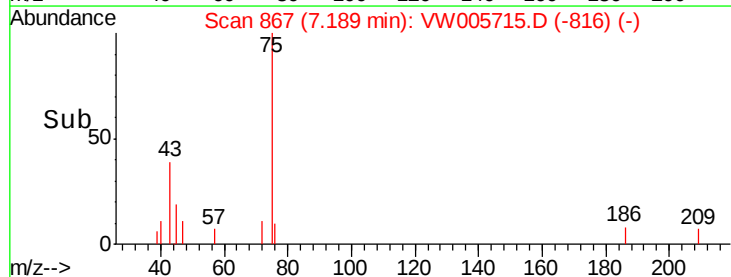
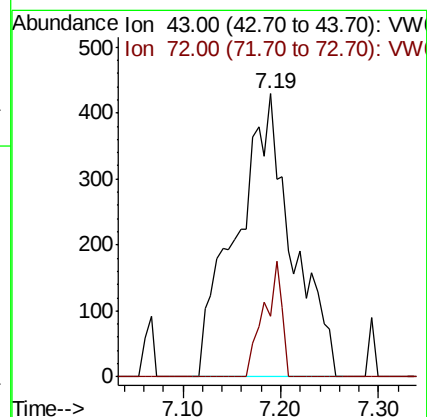
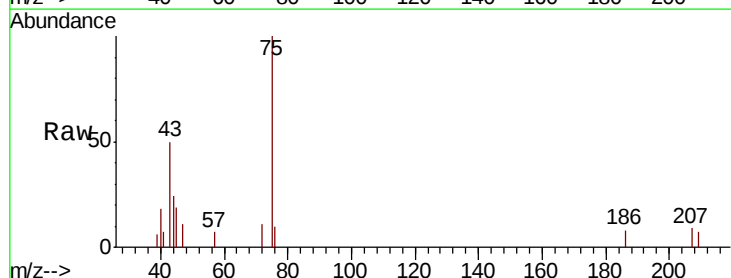
Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

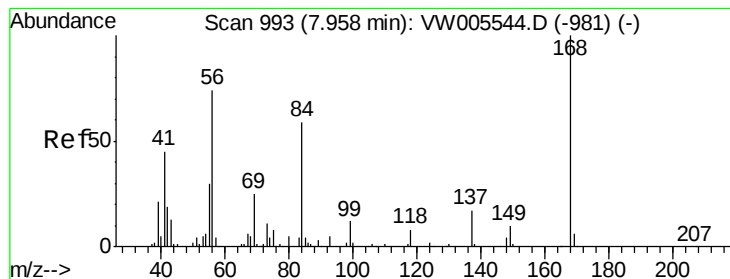
Tgt Ion: 43 Resp: 12903
Ion Ratio Lower Upper
43 100
58 27.8 21.8 32.8



#25
2-Butanone
Concen: 3.147 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.01 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Tgt Ion: 43 Resp: 1702
Ion Ratio Lower Upper
43 100
72 21.2 19.9 29.9





#31

Cyclohexane

Concen: 1.834 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

EO-01-092718-ARE

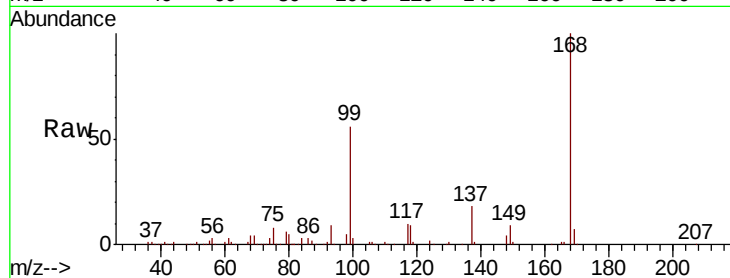
Tgt Ion: 56 Resp: 6330

Ion Ratio Lower Upper

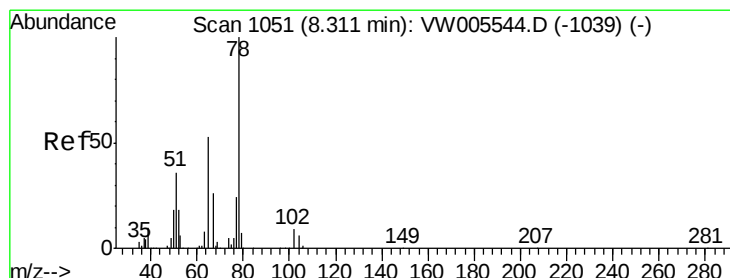
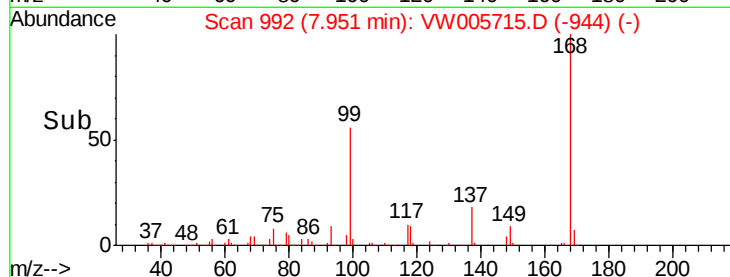
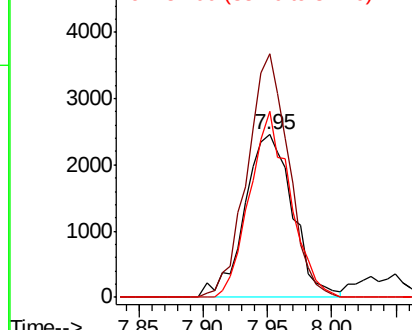
56 100

69 149.7 27.0 40.4#

84 114.7 64.2 96.4#



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: 60.969 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005715.D

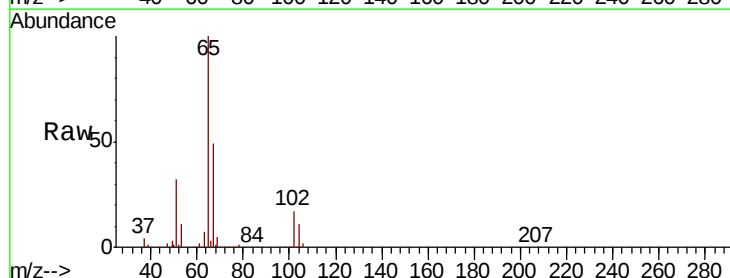
Acq: 27 Sep 2018 21:44

Tgt Ion: 65 Resp: 135760

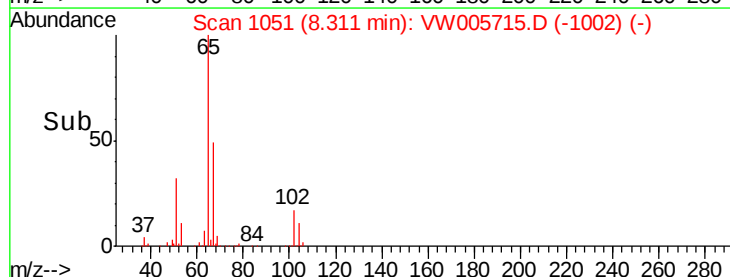
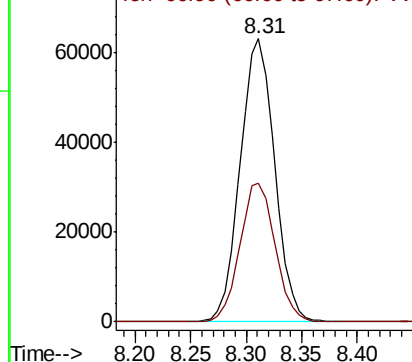
Ion Ratio Lower Upper

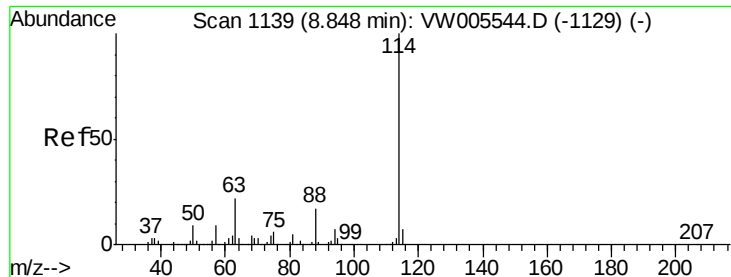
65 100

67 49.9 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

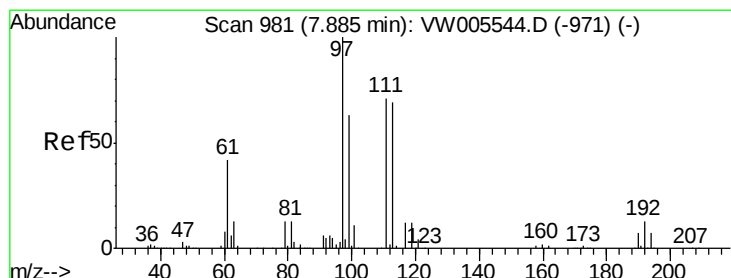
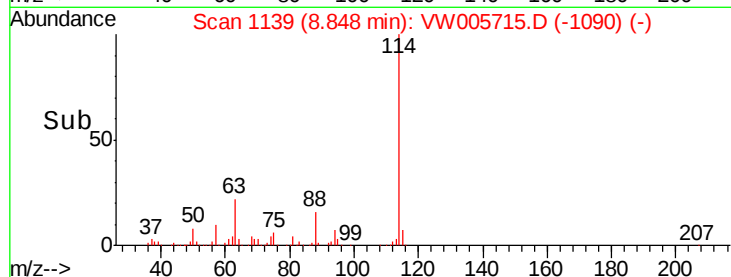
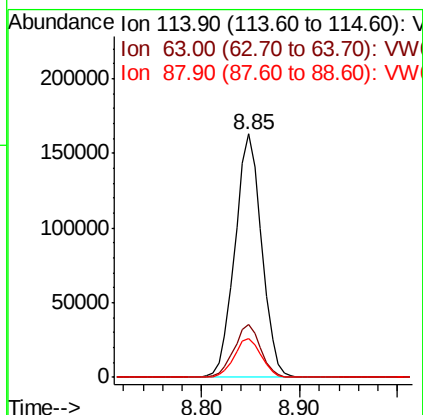
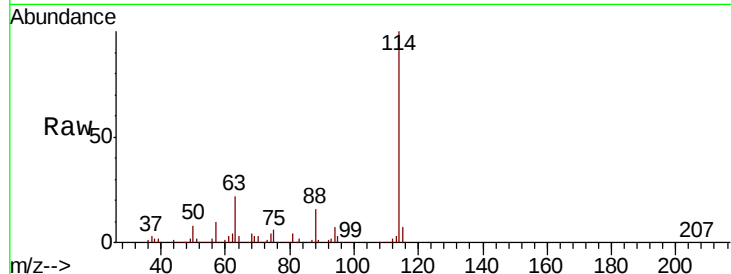




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW005715.D
 Acq: 27 Sep 2018 21:44

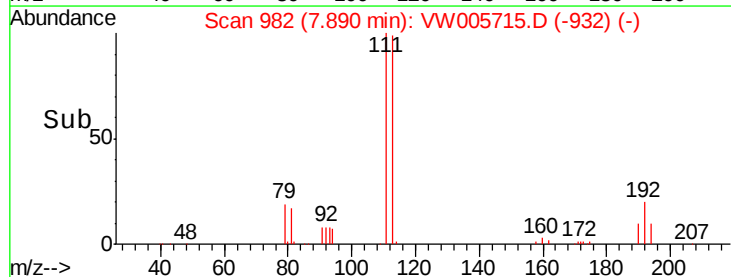
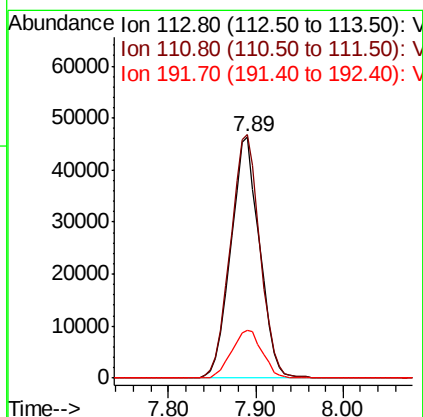
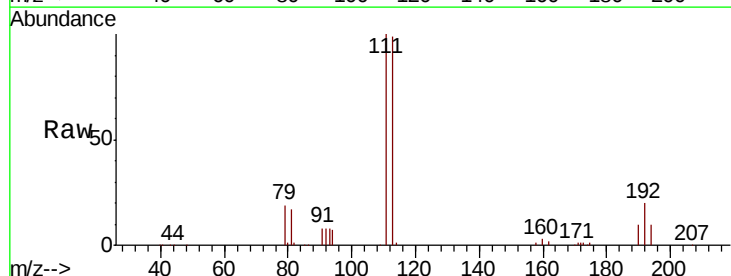
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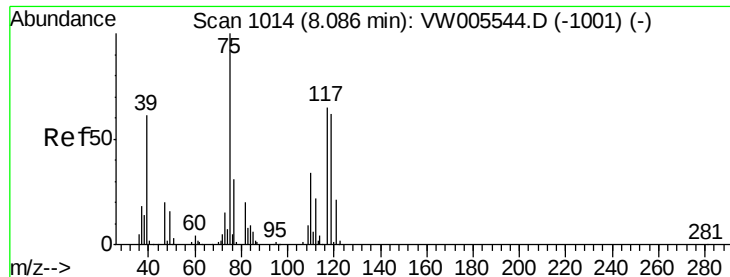
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.0
88	15.8	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 54.600 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW005715.D
 Acq: 27 Sep 2018 21:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.6	123.8
192	21.0	17.0	25.4





#36

1,1-Dichloropropene

Concen: 4.654 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

EO-01-092718-ARE

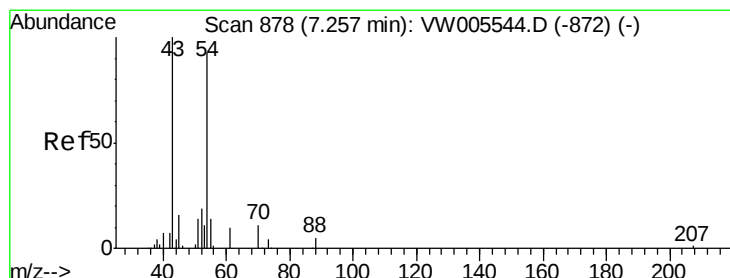
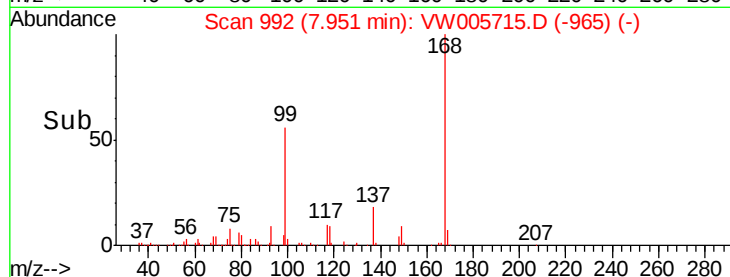
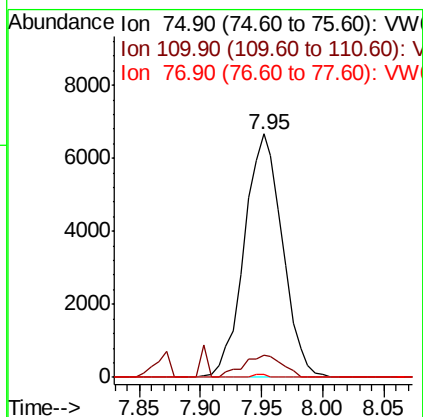
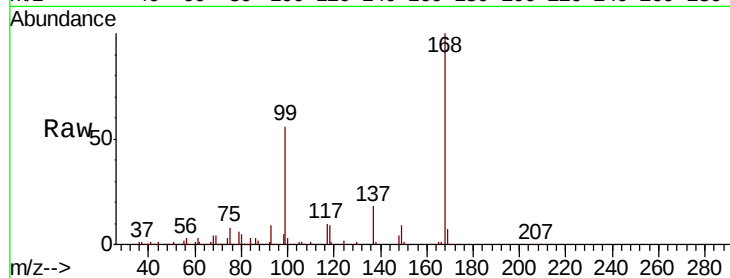
Tgt Ion: 75 Resp: 14451

Ion Ratio Lower Upper

75 100

110 9.3 17.0 50.9#

77 0.4 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.302 ug/l

RT: 7.19 min Scan# 867

Delta R.T. -0.07 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

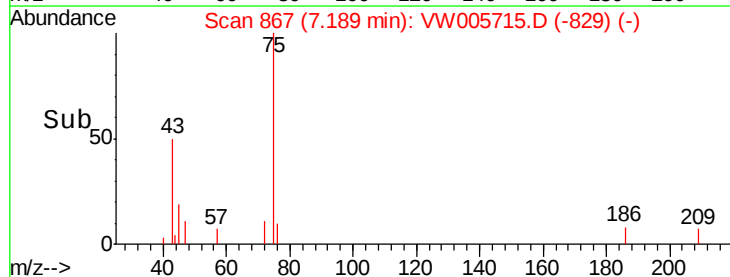
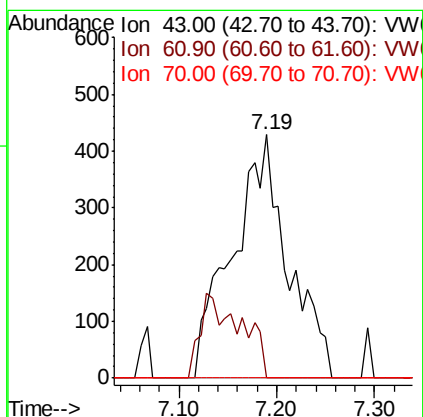
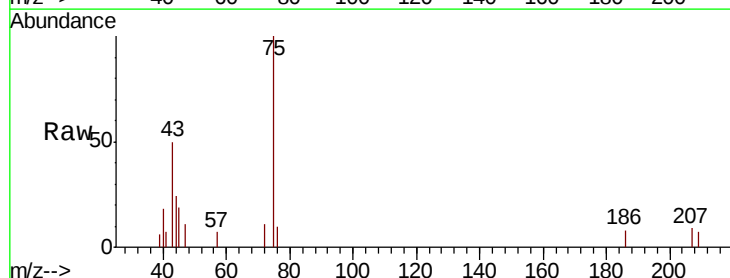
Tgt Ion: 43 Resp: 1702

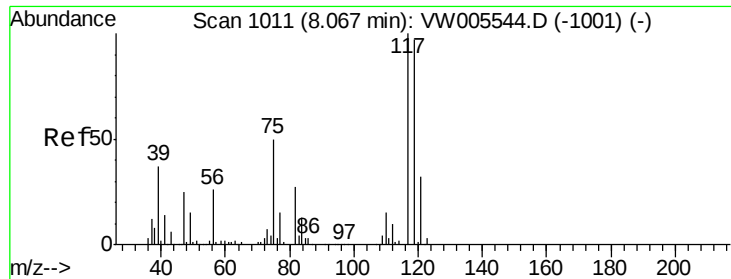
Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

70 0.0 8.2 12.2#

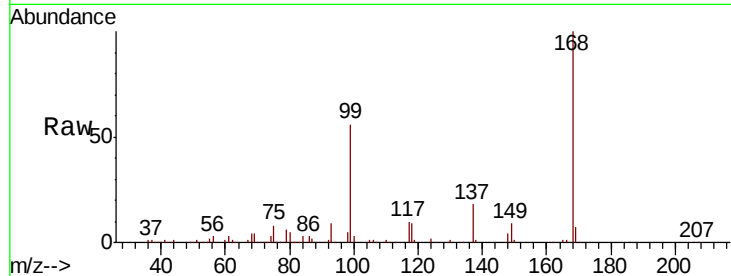




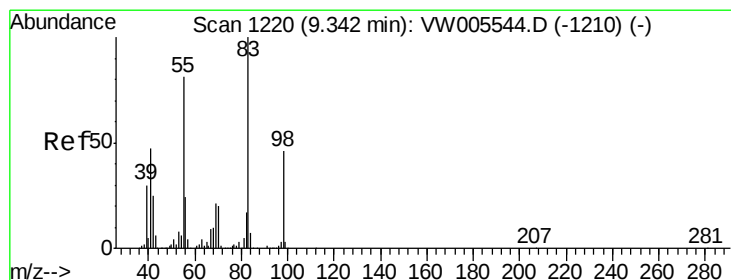
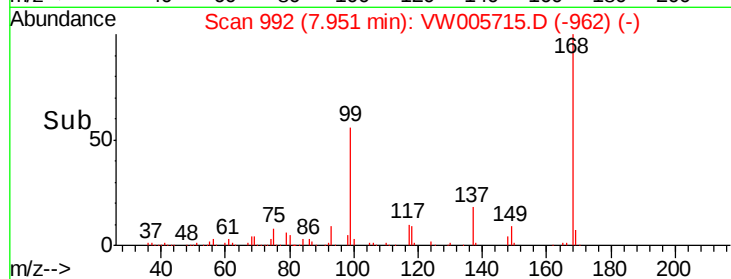
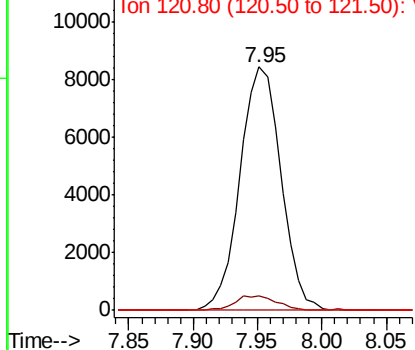
#38
Carbon Tetrachloride
Concen: 5.580 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

Tgt Ion: 117 Resp: 18568
Ion Ratio Lower Upper
117 100
119 5.8 77.6 116.4#
121 0.0 25.7 38.5#

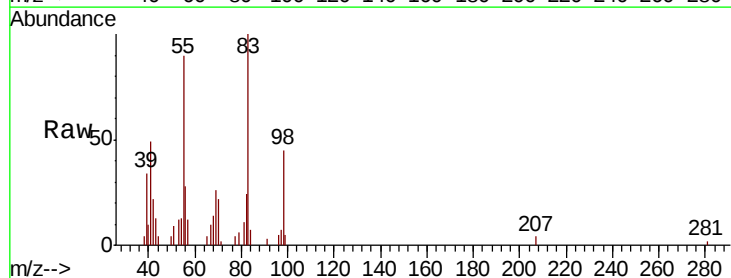


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

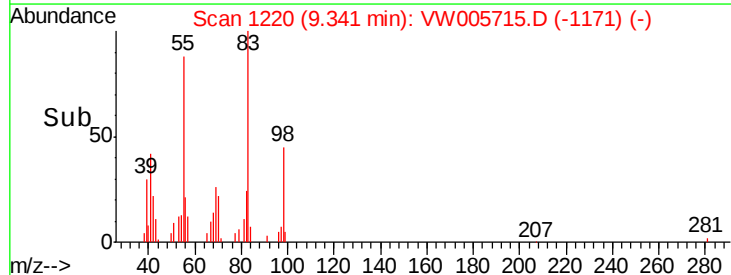
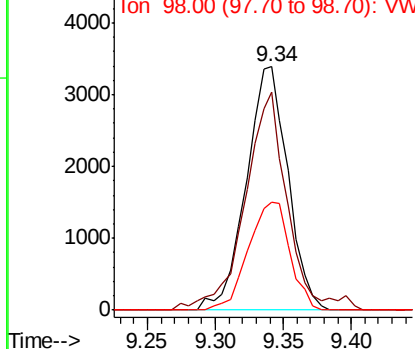


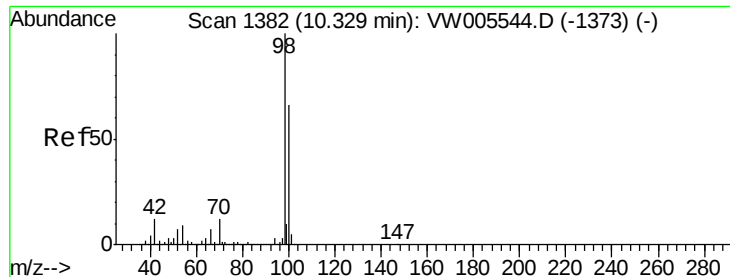
#39
Methylcyclohexane
Concen: 1.976 ug/l
RT: 9.34 min Scan# 1220
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Tgt Ion: 83 Resp: 7239
Ion Ratio Lower Upper
83 100
55 87.9 64.6 97.0
98 44.5 37.0 55.6



Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 47.371 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

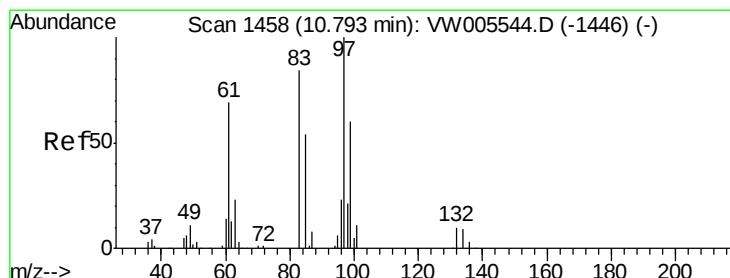
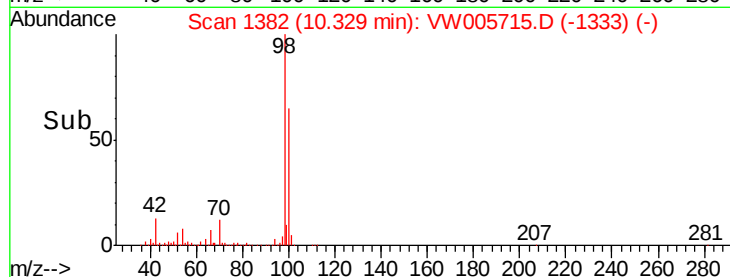
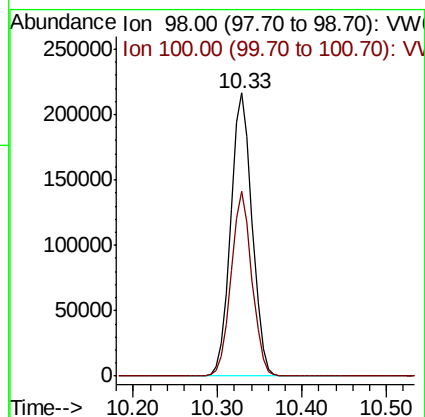
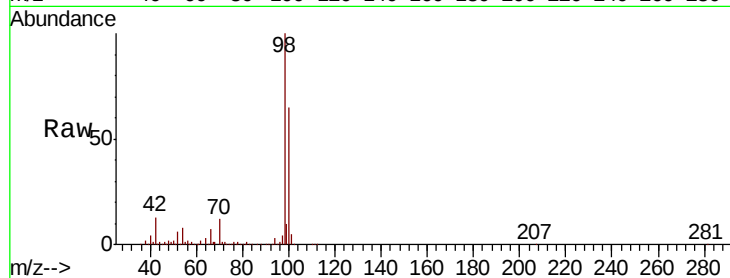
EO-01-092718-ARE

Tgt Ion: 98 Resp: 374179

Ion Ratio Lower Upper

98 100

100 63.2 51.6 77.4



#55

1,1,2-Trichloroethane

Concen: 1.057 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.03 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Tgt Ion: 97 Resp: 1623

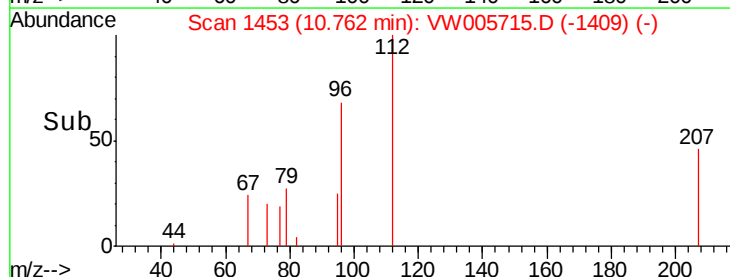
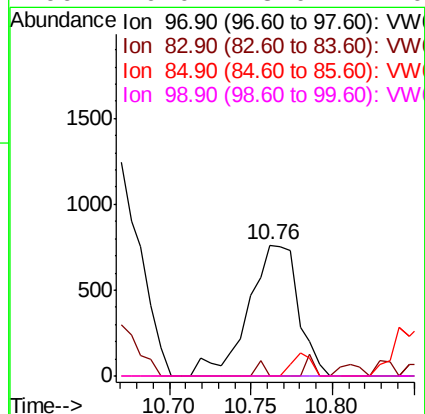
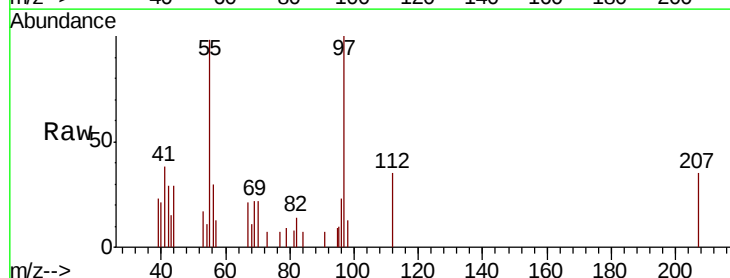
Ion Ratio Lower Upper

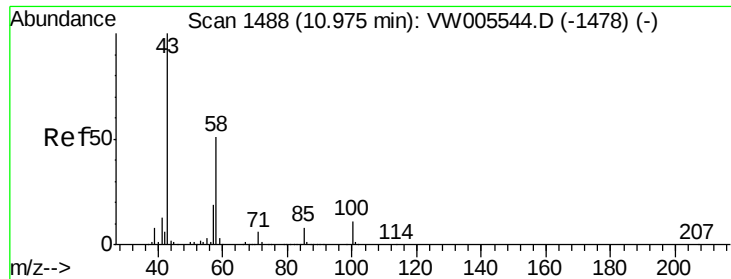
97 100

83 0.0 67.4 101.2#

85 0.0 43.3 64.9#

99 0.0 48.0 72.0#

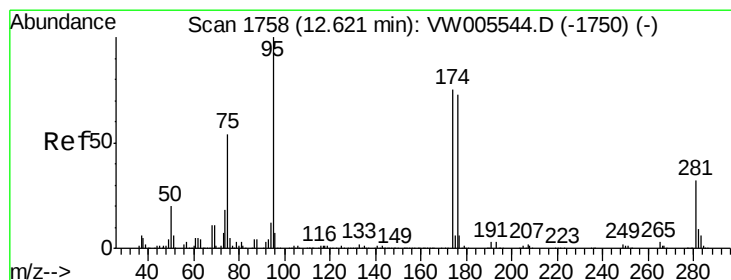
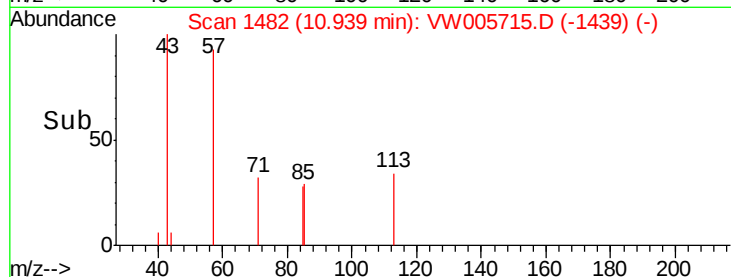
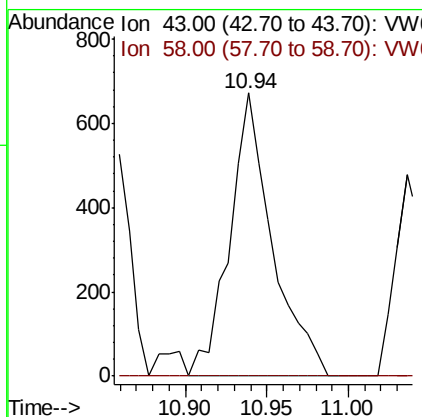
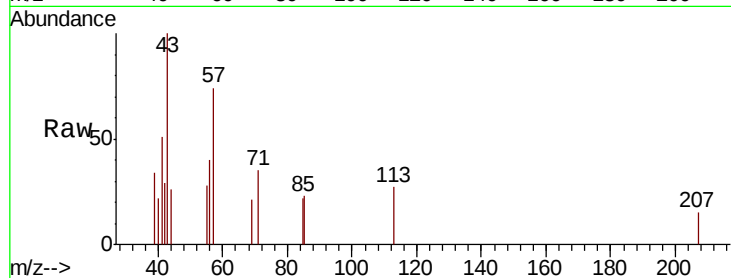




#59
2-Hexanone
Concen: 1.389 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

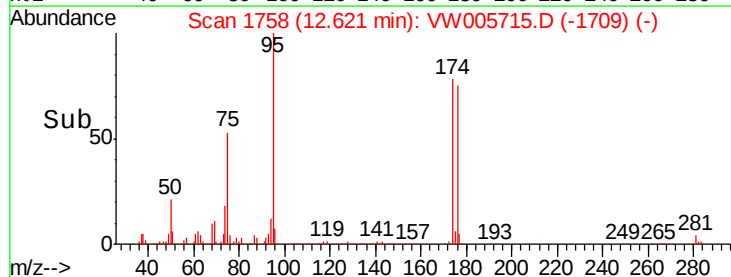
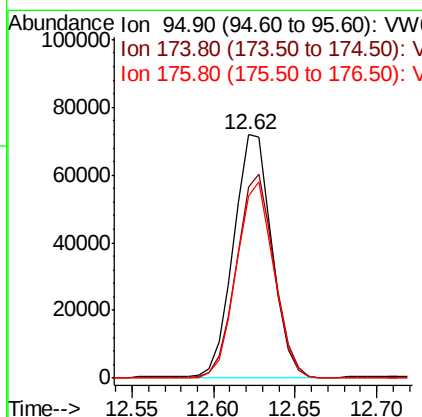
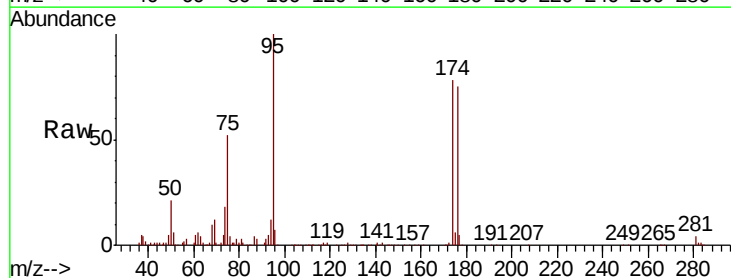
Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

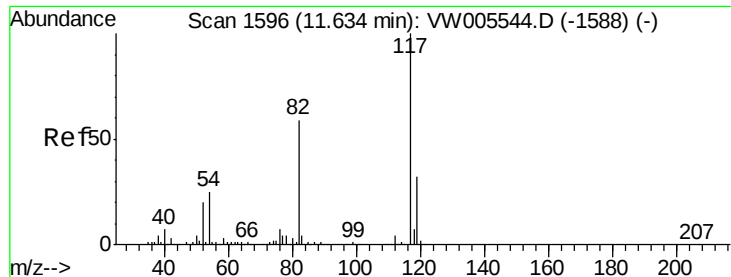
Tgt Ion: 43 Resp: 1221
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 39.867 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Tgt Ion: 95 Resp: 116521
Ion Ratio Lower Upper
95 100
174 83.4 0.0 163.8
176 79.5 0.0 158.0

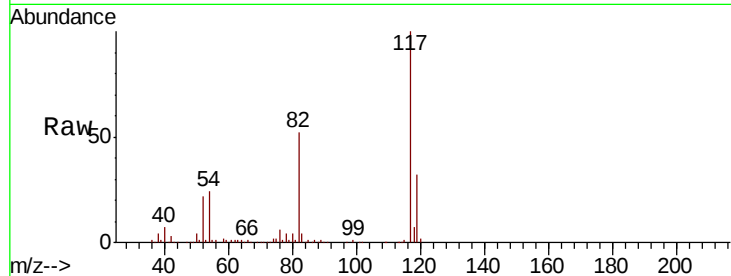




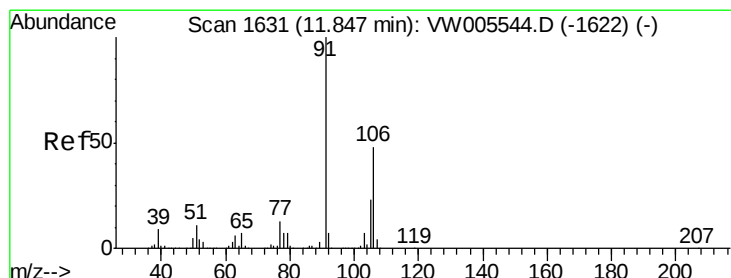
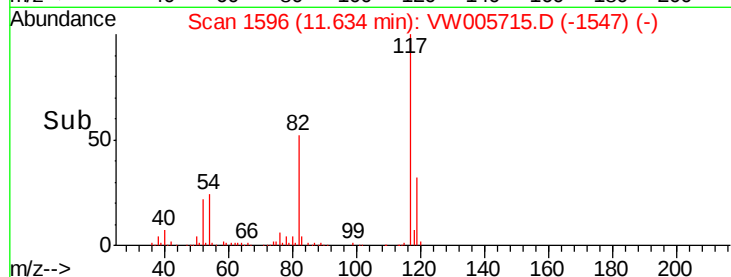
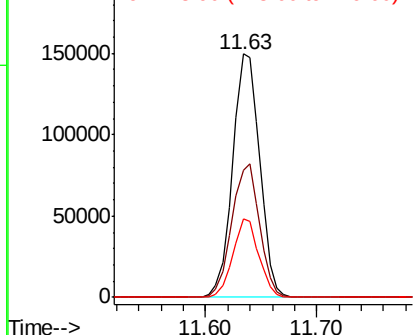
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

Tgt Ion:117 Resp: 251355
Ion Ratio Lower Upper
117 100
82 52.0 46.9 70.3
119 32.0 25.7 38.5

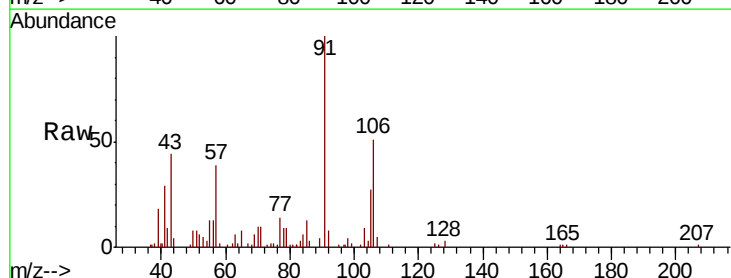


Abundance Ion 116.90 (116.60 to 117.60): V
200000 Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

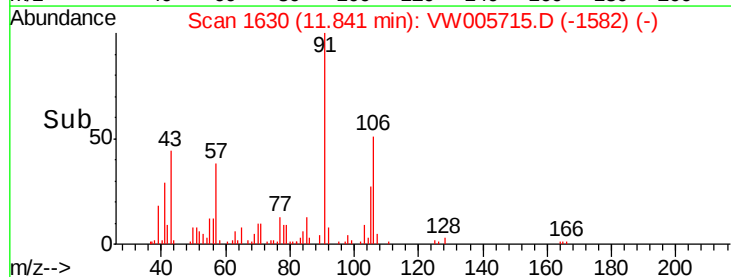
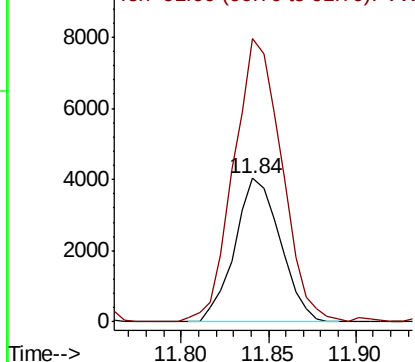


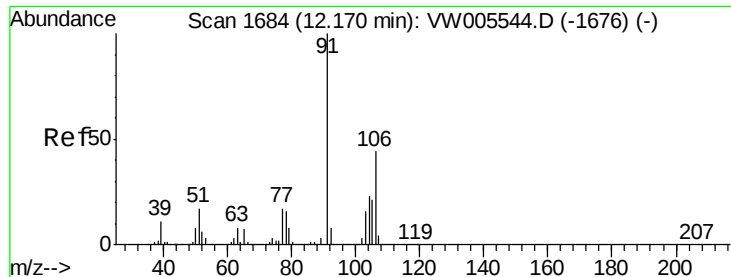
#68
m/p-Xylenes
Concen: 2.043 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Tgt Ion:106 Resp: 7309
Ion Ratio Lower Upper
106 100
91 207.7 167.8 251.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

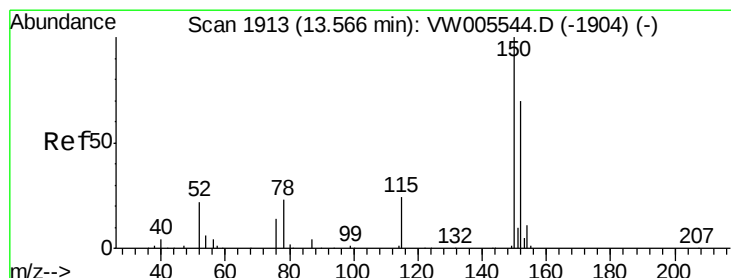
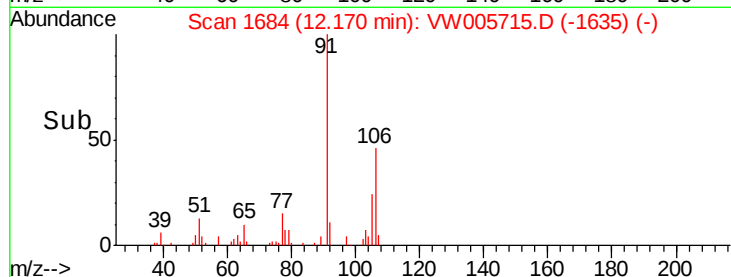
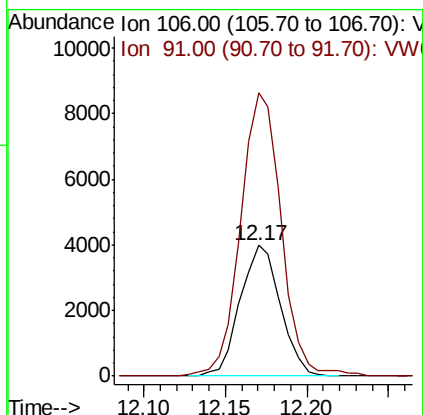
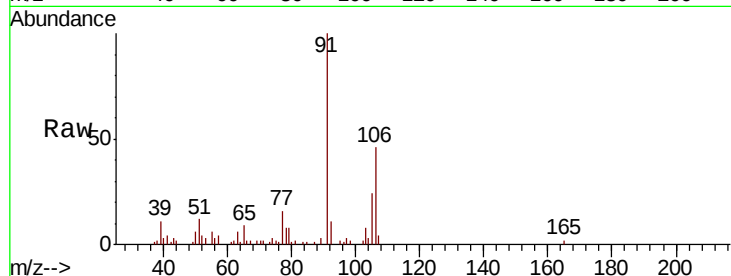




#69
o-Xylene
Concen: 2.039 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

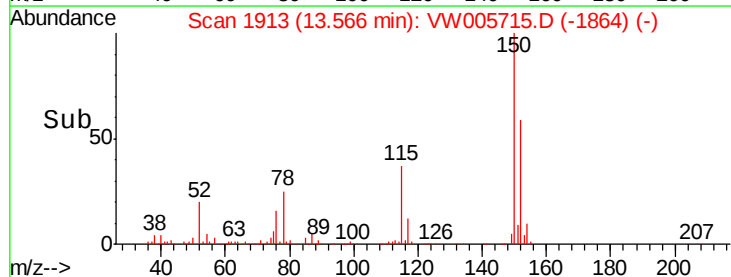
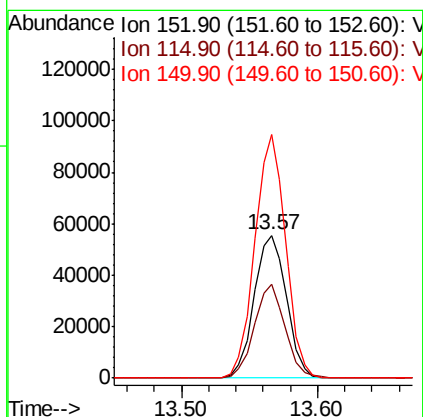
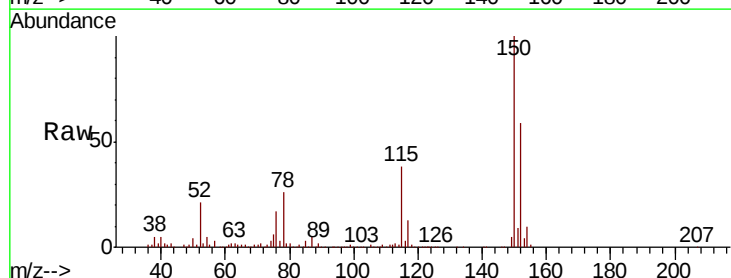
Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

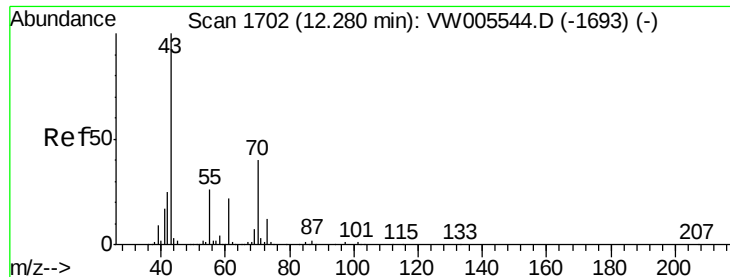
Tgt Ion:106 Resp: 6834
Ion Ratio Lower Upper
106 100
91 219.3 111.0 333.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Tgt Ion:152 Resp: 92309
Ion Ratio Lower Upper
152 100
115 62.8 30.0 90.0
150 162.8 0.0 348.6





#74

N-amyI acetate

Concen: 1.267 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

EO-01-092718-ARE

Tgt Ion: 43 Resp: 1836

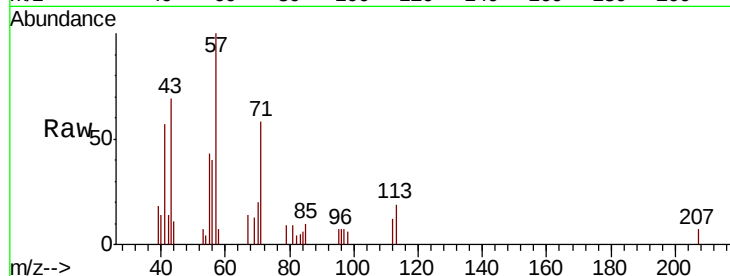
Ion Ratio Lower Upper

43 100

70 19.1 31.4 47.0#

55 69.6 20.9 31.3#

61 0.0 17.8 26.6#

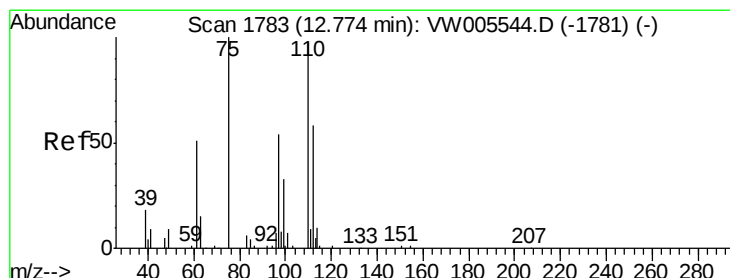
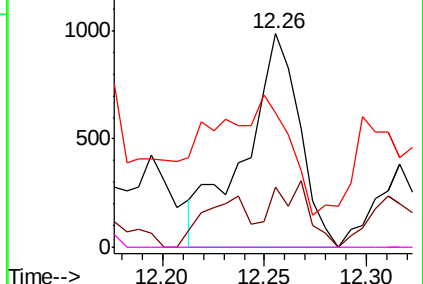
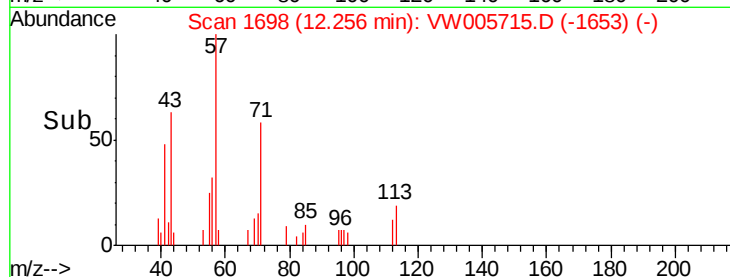


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#76

1,2,3-Trichloropropane

Concen: 77.827 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005715.D

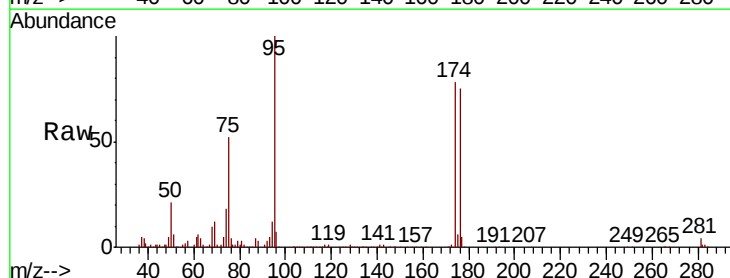
Acq: 27 Sep 2018 21:44

Tgt Ion: 75 Resp: 61240

Ion Ratio Lower Upper

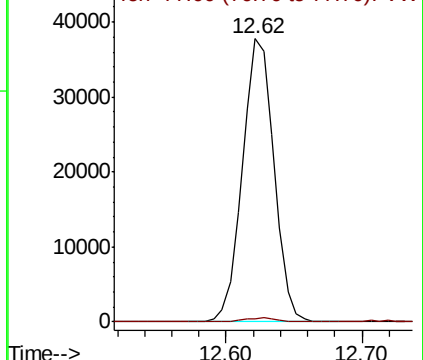
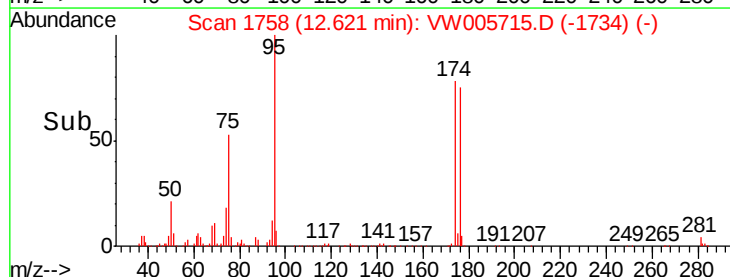
75 100

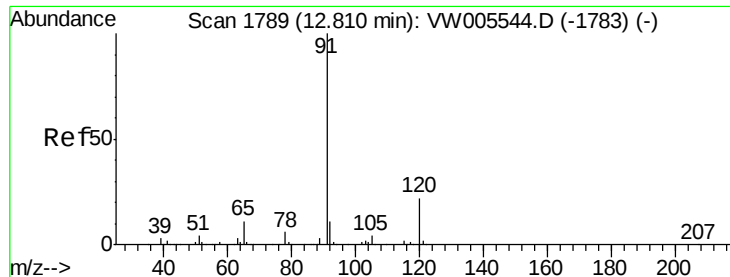
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

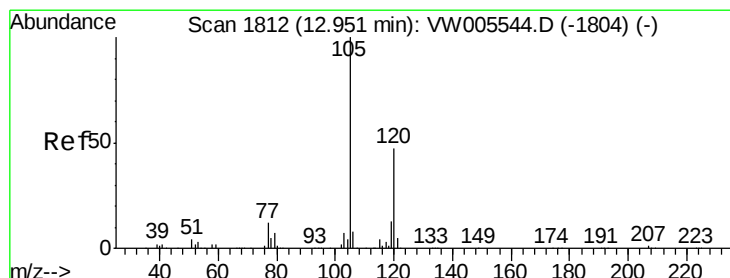
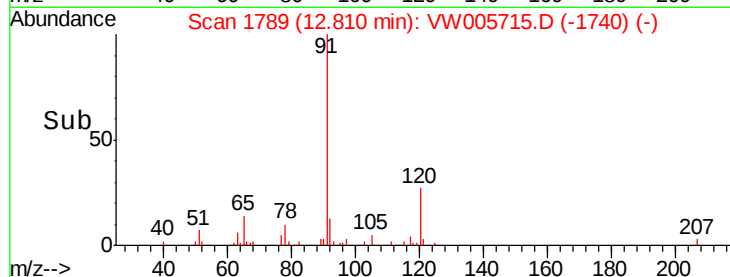
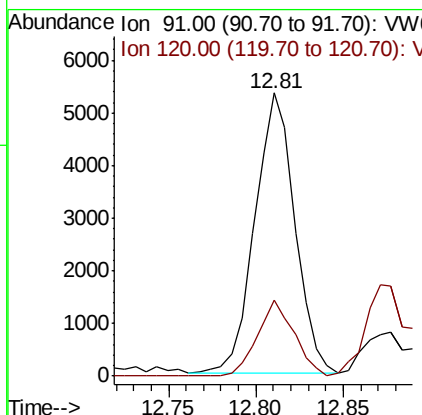
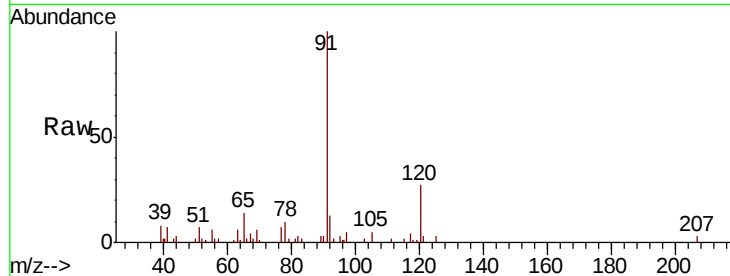




#78
n-propylbenzene
Concen: 1.083 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

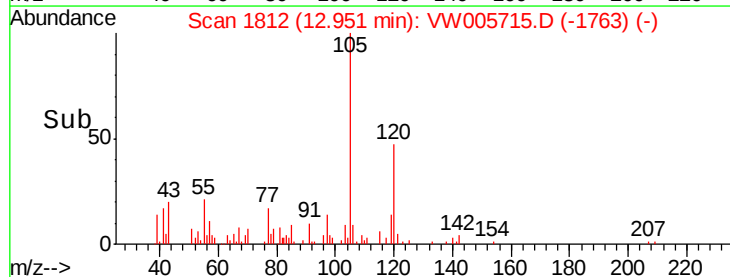
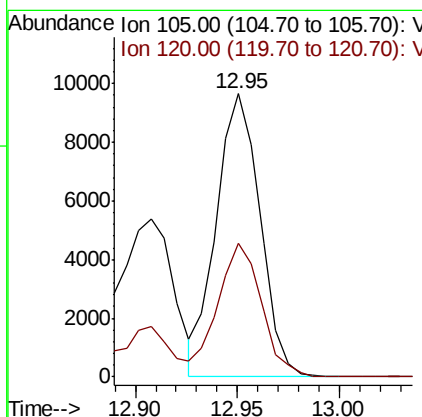
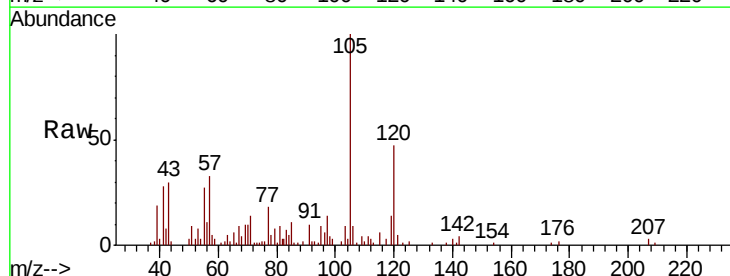
Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

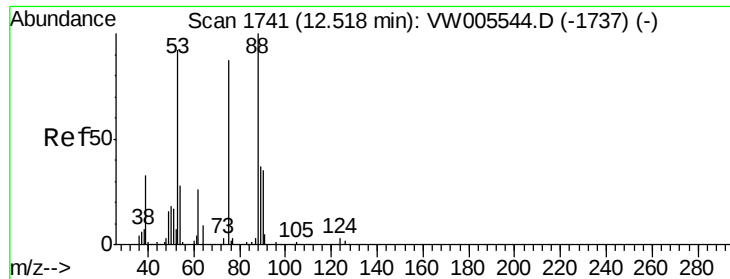
Tgt Ion: 91 Resp: 8393
Ion Ratio Lower Upper
91 100
120 25.0 11.2 33.5



#80
1,3,5-Trimethylbenzene
Concen: 2.579 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Tgt Ion: 105 Resp: 14353
Ion Ratio Lower Upper
105 100
120 46.9 23.6 70.8





#81

trans-1,4-Dichloro-2-butene

Concen: 175.290 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

EO-01-092718-ARE

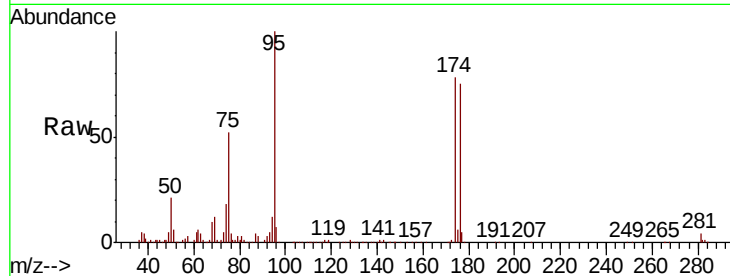
Tgt Ion: 75 Resp: 61240

Ion Ratio Lower Upper

75 100

53 0.7 85.8 128.6#

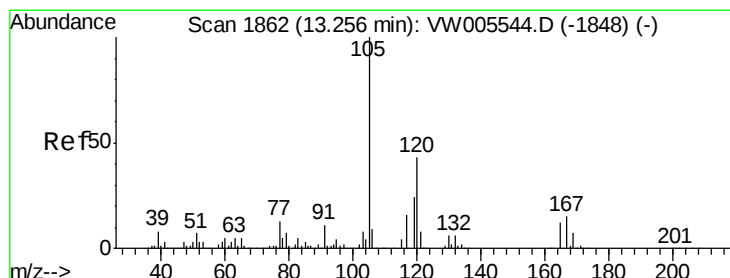
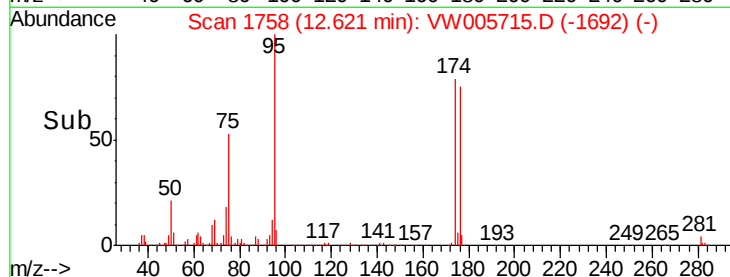
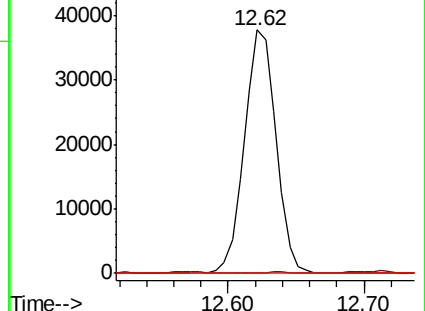
89 0.0 37.3 55.9#



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



#84

1,2,4-Trimethylbenzene

Concen: 6.757 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW005715.D

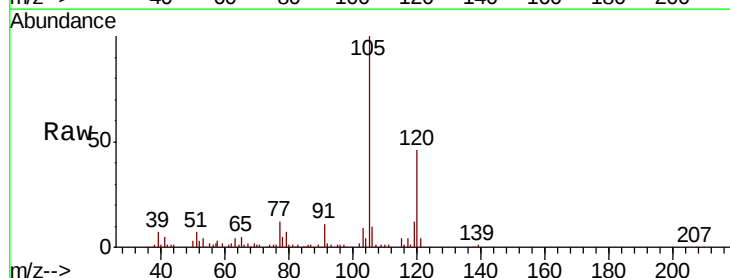
Acq: 27 Sep 2018 21:44

Tgt Ion: 105 Resp: 37953

Ion Ratio Lower Upper

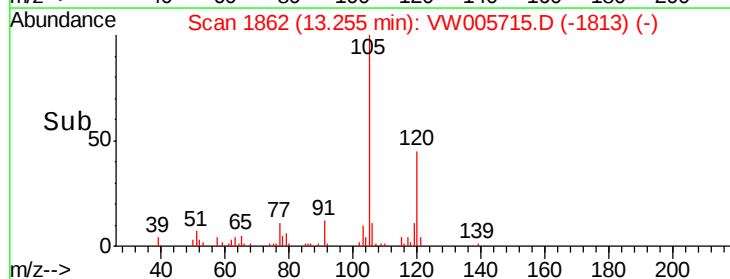
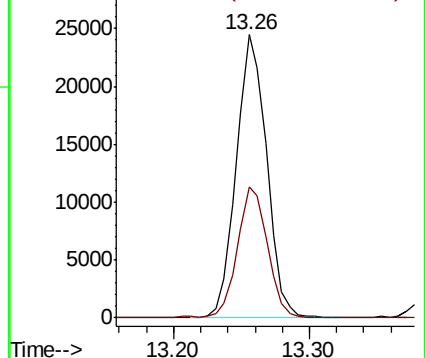
105 100

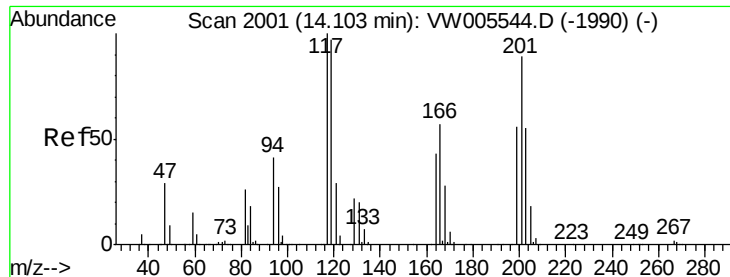
120 46.0 21.5 64.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.654 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

Instrument :

MSVOA_W

ClientSampleId :

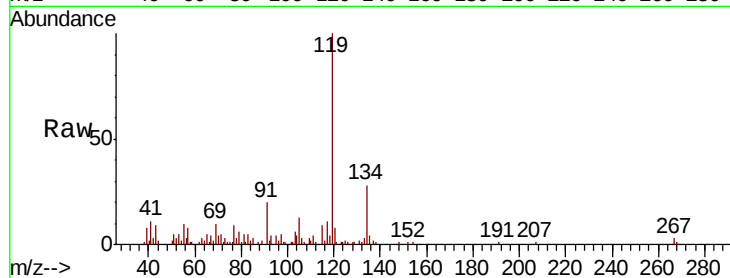
EO-01-092718-ARE

Tgt Ion:117 Resp: 1822

Ion Ratio Lower Upper

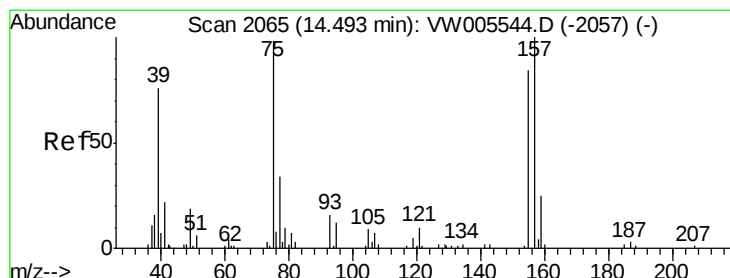
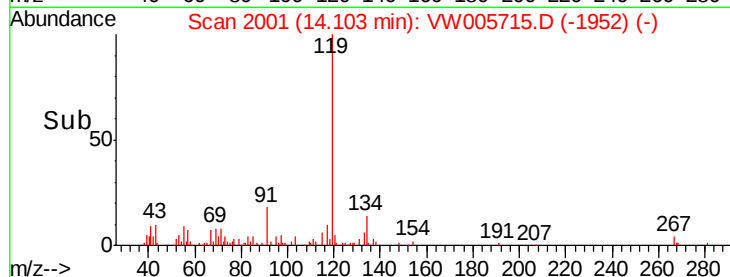
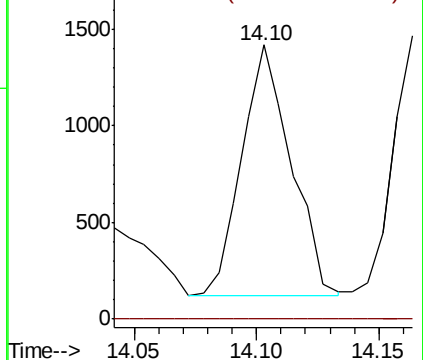
117 100

201 0.0 42.8 128.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.037 ug/l

RT: 14.47 min Scan# 2062

Delta R.T. -0.02 min

Lab File: VW005715.D

Acq: 27 Sep 2018 21:44

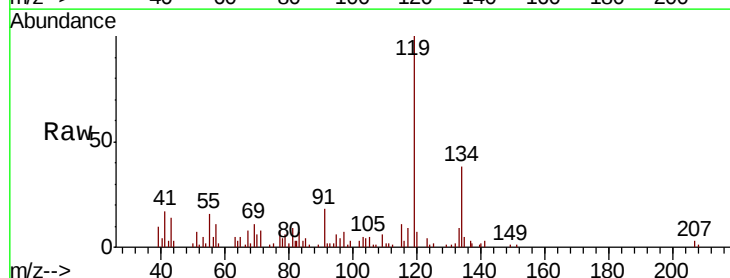
Tgt Ion: 75 Resp: 210

Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.5#

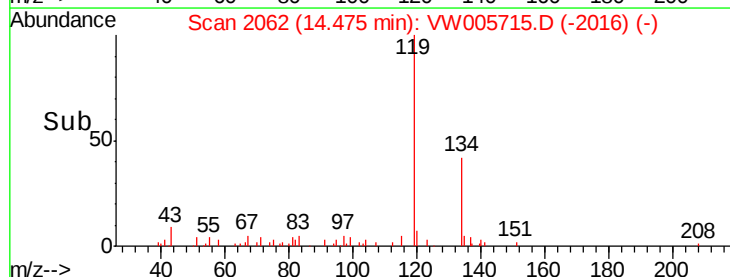
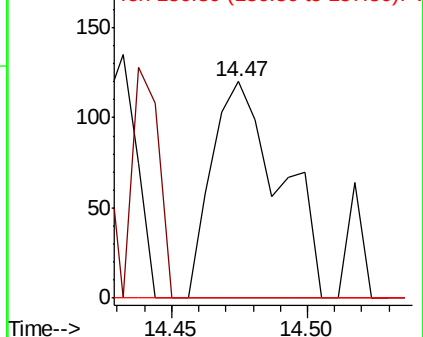
157 0.0 50.8 152.4#

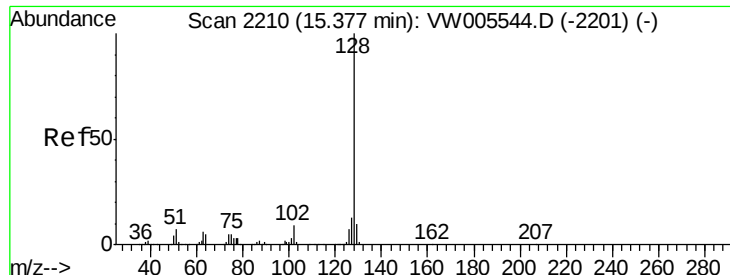


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

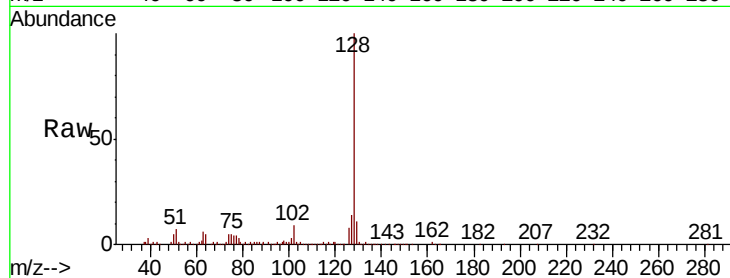




#95
Naphthalene
Concen: 57.171 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW005715.D
Acq: 27 Sep 2018 21:44

Instrument :
MSVOA_W
ClientSampleId :
EO-01-092718-ARE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.9	16.3
129	10.9	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

