

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082119\
 Data File : VW012060.D
 Acq On : 21 Aug 2019 10:07
 Operator : SY/VA
 Sample : VW0821SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

Quant Time: Aug 22 05:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.94	168	294091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	469440	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	408600	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	199976	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	158120	46.82	ug/l	0.00
Spiked Amount						
			Recovery	=	93.64%	
35) Dibromofluoromethane	7.88	113	129067	49.01	ug/l	0.00
Spiked Amount						
			Recovery	=	98.02%	
50) Toluene-d8	10.32	98	529497	49.11	ug/l	0.00
Spiked Amount						
			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.62	95	190395	49.53	ug/l	0.00
Spiked Amount						
			Recovery	=	99.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	35262	21.514	ug/l	98
3) Chloromethane	2.21	50	55112	19.391	ug/l	99
4) Vinyl Chloride	2.36	62	67811	19.818	ug/l	98
5) Bromomethane	2.76	94	29834	15.752	ug/l	99
6) Chloroethane	2.88	64	29401	15.043	ug/l	99
7) Trichlorofluoromethane	3.22	101	31279	20.455	ug/l	99
8) Diethyl Ether	3.67	74	33425	19.278	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.04	101	57542	19.836	ug/l	99
10) Methyl Iodide	4.25	142	74365	18.140	ug/l	100
11) Tert butyl alcohol	5.20	59	20427	69.058	ug/l	99
12) 1,1-Dichloroethene	4.02	96	58400	19.067	ug/l	97
13) Acrolein	3.89	56	13328	55.004	ug/l	98
14) Allyl chloride	4.65	41	122800	18.851	ug/l	99
15) Acrylonitrile	5.36	53	85336	98.597	ug/l	98
16) Acetone	4.13	43	82636	76.927	ug/l	97
17) Carbon Disulfide	4.37	76	152169	15.874	ug/l	100
18) Methyl Acetate	4.66	43	47664	19.751	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	101073	20.795	ug/l	99
20) Methylene Chloride	4.90	84	64552	17.424	ug/l	98
21) trans-1,2-Dichloroethene	5.41	96	64300	19.473	ug/l	96
22) Diisopropyl ether	6.31	45	244362	19.896	ug/l	98
23) Vinyl Acetate	6.24	43	753036	97.576	ug/l	99
24) 1,1-Dichloroethane	6.20	63	128242	19.496	ug/l	98
25) 2-Butanone	7.17	43	129350	92.022	ug/l	99
26) 2,2-Dichloropropane	7.15	77	67407	16.663	ug/l	96
27) cis-1,2-Dichloroethene	7.16	96	70204	19.317	ug/l	97
28) Bromochloromethane	7.51	49	56621	19.393	ug/l	100
29) Tetrahydrofuran	7.52	42	78114	97.220	ug/l	99
30) Chloroform	7.67	83	116460	19.191	ug/l	98
31) Cyclohexane	7.95	56	123782	19.604	ug/l	# 94
32) 1,1,1-Trichloroethane	7.87	97	90334	19.546	ug/l	99
36) 1,1-Dichloropropene	8.08	75	99276	20.338	ug/l	99
37) Ethyl Acetate	7.25	43	55963	19.927	ug/l	99
38) Carbon Tetrachloride	8.06	117	83435	19.967	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	111502	20.745	ug/l	99
40) Benzene	8.32	78	269805	19.733	ug/l	100
41) Methacrylonitrile	7.48	41	33294	19.833	ug/l	99
42) 1,2-Dichloroethane	8.40	62	84276	19.687	ug/l	99
43) Isopropyl Acetate	8.42	43	103914	20.120	ug/l	99
44) Trichloroethene	9.09	130	65602	19.963	ug/l	99
45) 1,2-Dichloropropane	9.37	63	72328	19.770	ug/l	100
46) Dibromomethane	9.46	93	32803	19.645	ug/l	99
47) Bromodichloromethane	9.64	83	82542	18.845	ug/l	100
48) Methyl methacrylate	9.43	41	49525	19.962	ug/l	98
49) 1,4-Dioxane	9.48	88	9121	377.258	ug/l #	78
51) 4-Methyl-2-Pentanone	10.21	43	270225	100.588	ug/l	100
52) Toluene	10.38	92	165590	20.055	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	87021	19.019	ug/l	97
54) cis-1,3-Dichloropropene	10.07	75	105779	19.444	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	47005	19.840	ug/l	99
56) Ethyl methacrylate	10.65	69	69997	20.191	ug/l	99
57) 1,3-Dichloropropane	10.93	76	90379	20.164	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	178860	113.629	ug/l	99
59) 2-Hexanone	10.97	43	191789	101.111	ug/l	99
60) Dibromochloromethane	11.13	129	49878	18.966	ug/l	98
61) 1,2-Dibromoethane	11.23	107	43682	19.483	ug/l	98
64) Tetrachloroethene	10.86	164	53981	20.290	ug/l	98
65) Chlorobenzene	11.66	112	168231	20.479	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	57314	20.030	ug/l	100
67) Ethyl Benzene	11.73	91	322365	20.604	ug/l	100
68) m/p-Xylenes	11.84	106	232327	40.832	ug/l	100
69) o-Xylene	12.16	106	108646	20.549	ug/l	100
70) Styrene	12.18	104	187813	20.545	ug/l	98
71) Bromoform	12.35	173	27951	19.159	ug/l #	97
73) Isopropylbenzene	12.46	105	305826	20.500	ug/l	99
74) N-amyl acetate	12.27	43	94504	20.233	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.71	83	56830	20.252	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	46914m	22.171	ug/l	
77) Bromobenzene	12.74	156	66192	20.073	ug/l	99
78) n-propylbenzene	12.80	91	375613	20.688	ug/l	99
79) 2-Chlorotoluene	12.89	91	211971	20.265	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	256684	20.526	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	18075	19.687	ug/l	97
82) 4-Chlorotoluene	12.99	91	219783	20.027	ug/l	100
83) tert-Butylbenzene	13.21	119	219661	21.005	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	257995	20.480	ug/l	99
85) sec-Butylbenzene	13.38	105	312211	20.923	ug/l	100
86) p-Isopropyltoluene	13.50	119	279609	20.652	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	129367	20.008	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	127400	19.808	ug/l	98
89) n-Butylbenzene	13.82	91	281453	20.831	ug/l	99
90) Hexachloroethane	14.09	117	47481	19.833	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	114528	20.027	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	9317	19.470	ug/l	96

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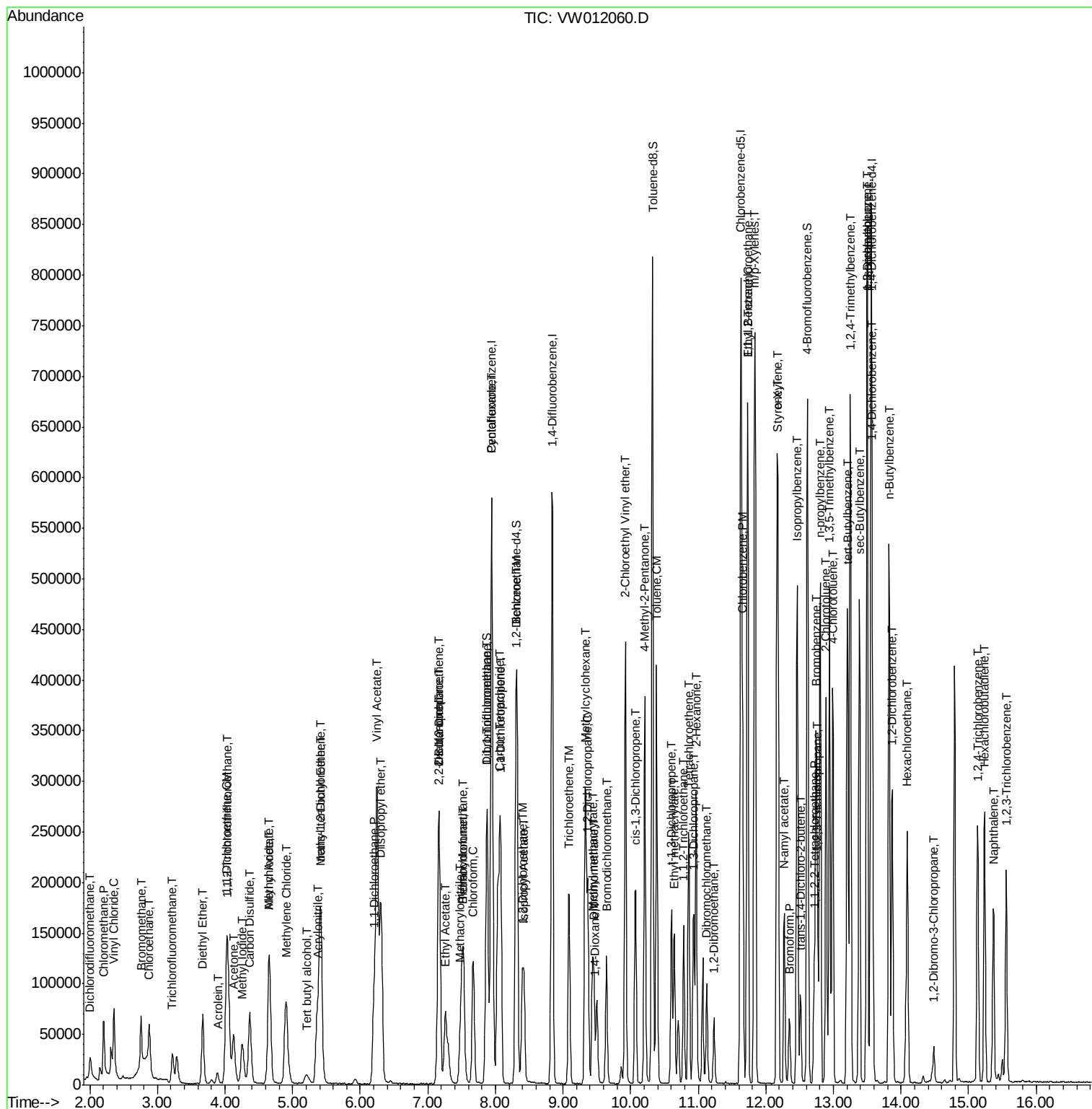
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

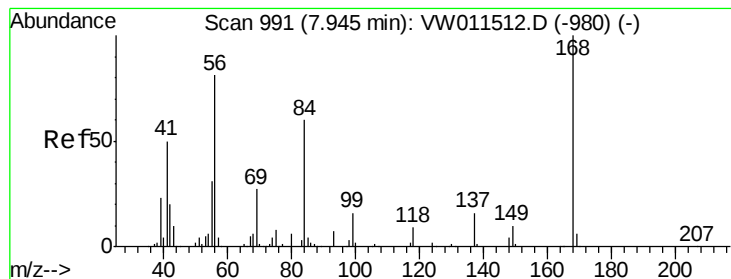
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	81651	20.259	ug/l	100
94) Hexachlorobutadiene	15.24	225	52019	20.697	ug/l	99
95) Naphthalene	15.36	128	144280	19.586	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	70515	19.960	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

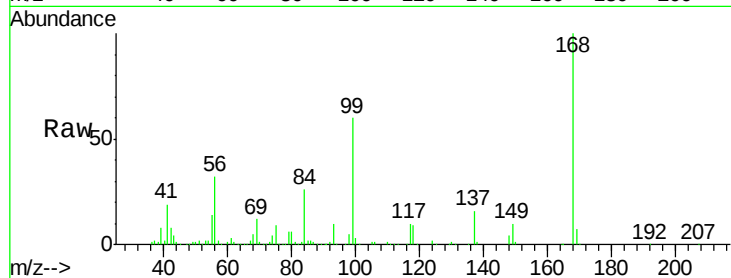
VW0821SBS01

Tot Ion:168 Resp: 294091

Ion Ratio Lower Upper

168 100

99 60.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.94

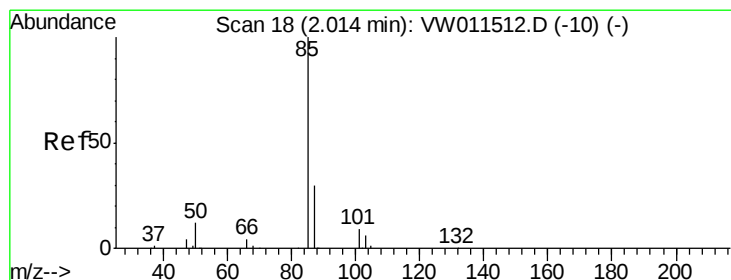
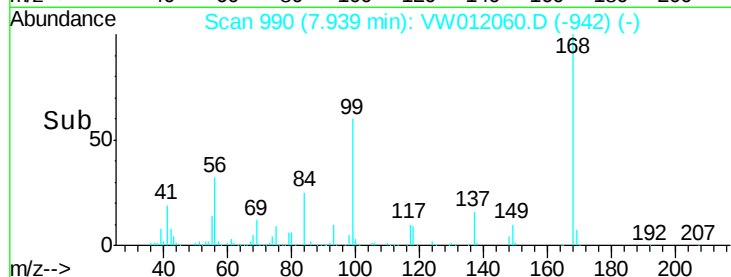
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 21.514 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW012060.D

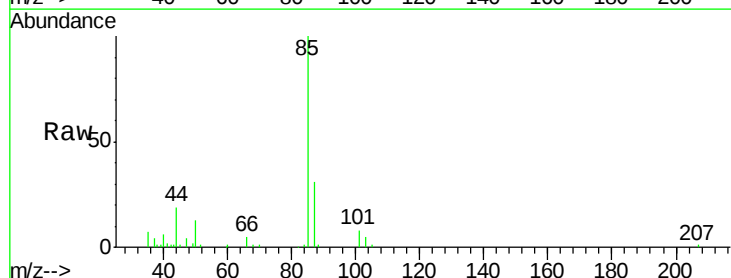
Acq: 21 Aug 2019 10:07

Tgt Ion: 85 Resp: 35262

Ion Ratio Lower Upper

85 100

87 31.3 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

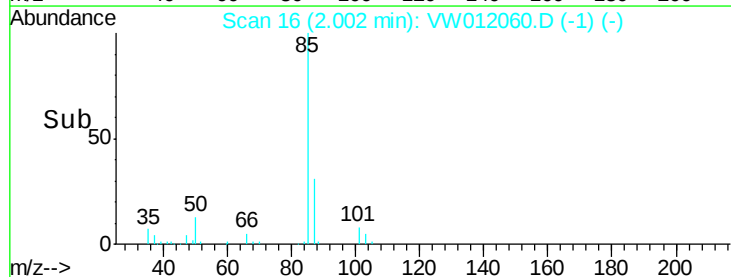
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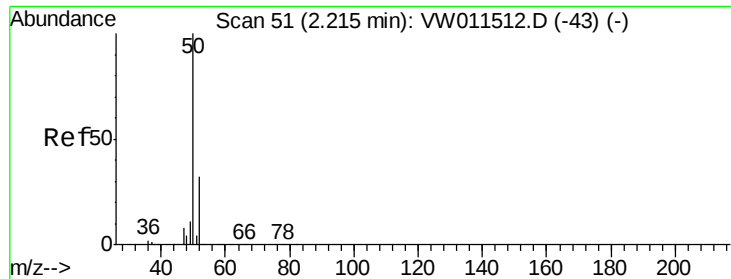
10000

5000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 19.391 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

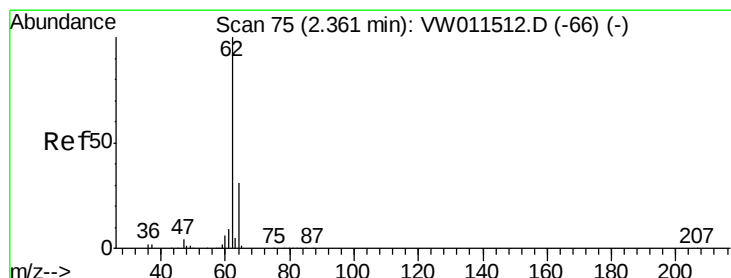
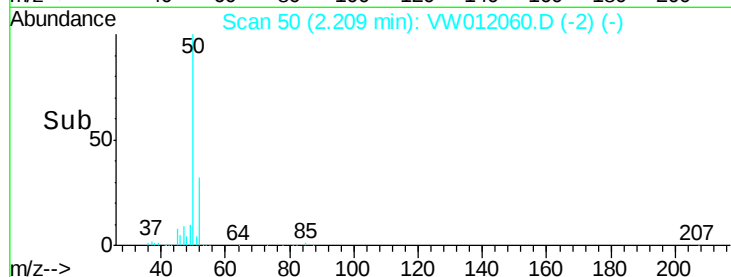
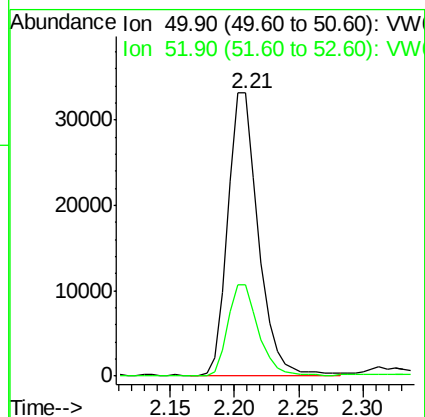
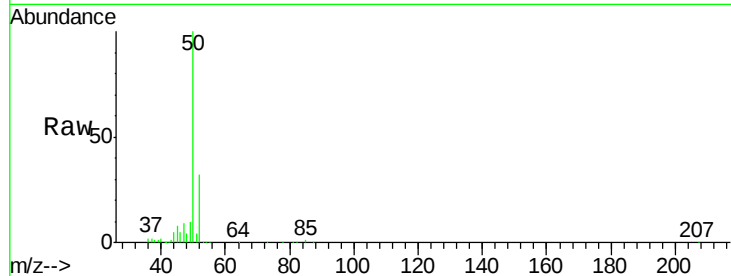
VW0821SBS01

Tot Ion: 50 Resp: 55112

Ion Ratio Lower Upper

50 100

52 32.2 25.4 38.2



#4

Vinyl Chloride

Concen: 19.818 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW012060.D

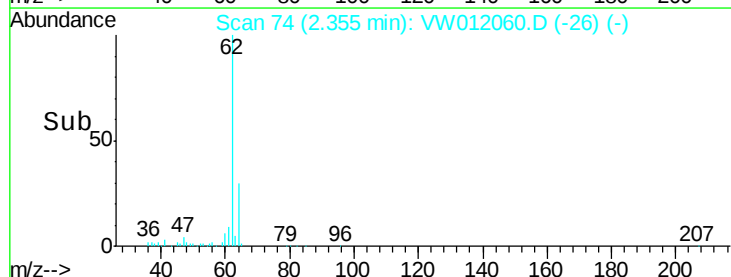
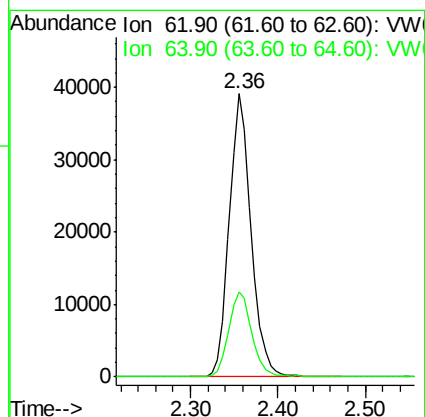
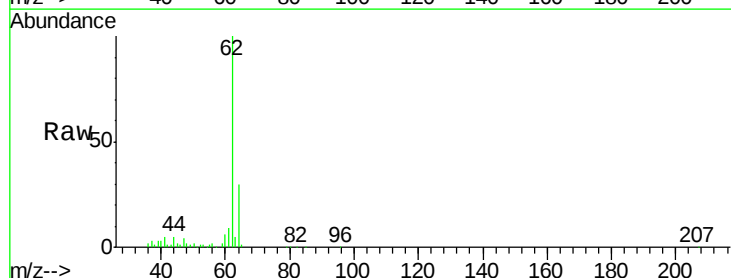
Acq: 21 Aug 2019 10:07

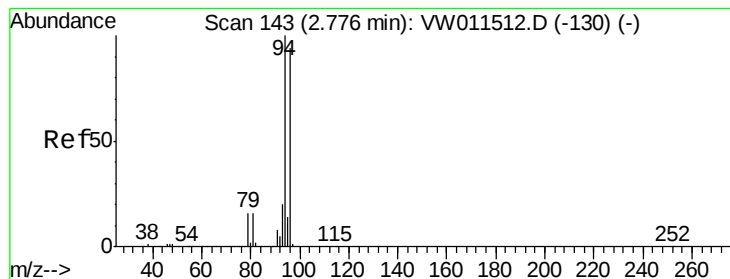
Tgt Ion: 62 Resp: 67811

Ion Ratio Lower Upper

62 100

64 30.1 25.0 37.4





#5

Bromomethane

Concen: 15.752 ug/l

RT: 2.76 min Scan# 140

Delta R.T. -0.02 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

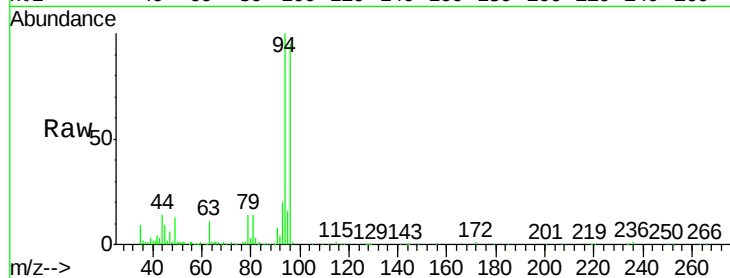
VW0821SBS01

Tot Ion: 94 Resp: 29834

Ion Ratio Lower Upper

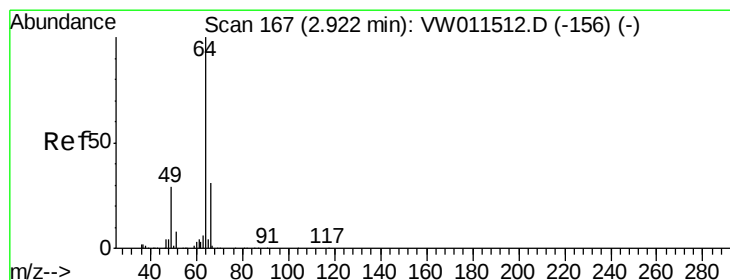
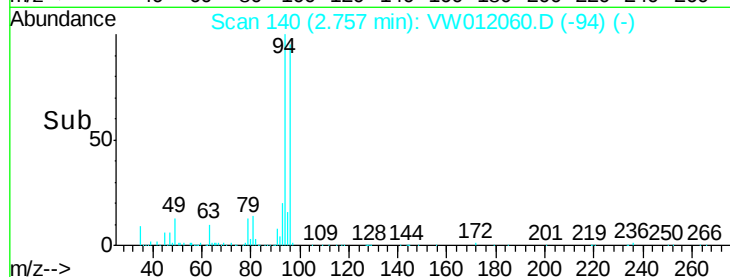
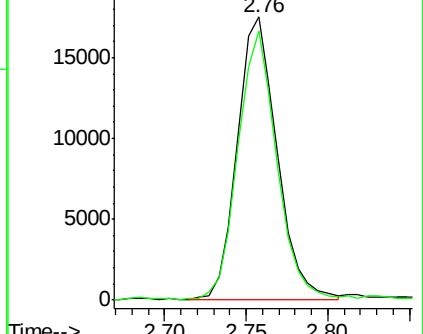
94 100

96 94.8 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 15.043 ug/l

RT: 2.88 min Scan# 160

Delta R.T. -0.04 min

Lab File: VW012060.D

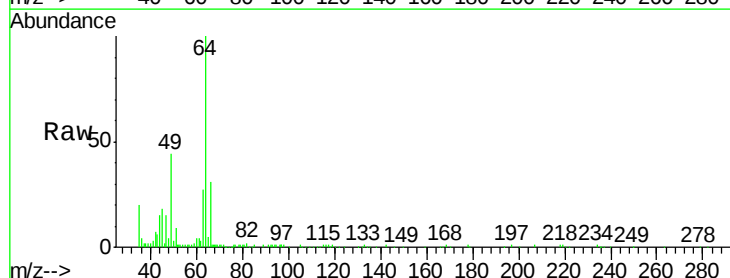
Acq: 21 Aug 2019 10:07

Tgt Ion: 64 Resp: 29401

Ion Ratio Lower Upper

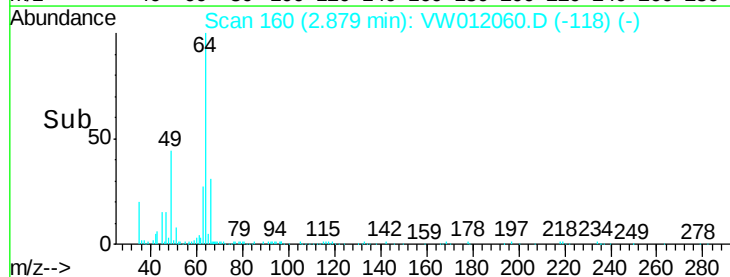
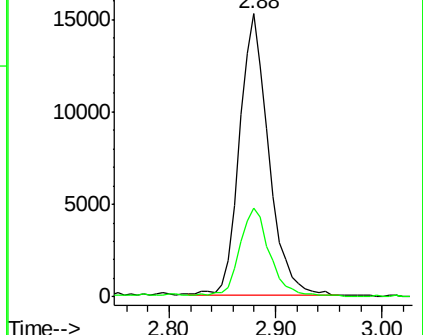
64 100

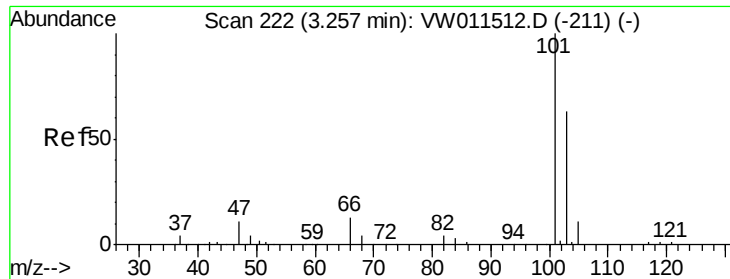
66 31.0 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



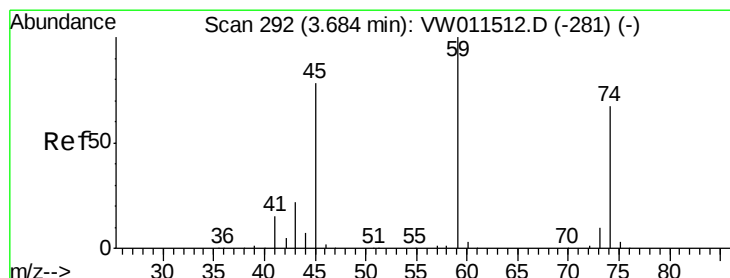
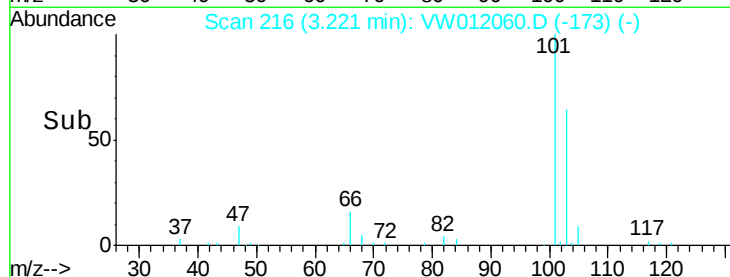
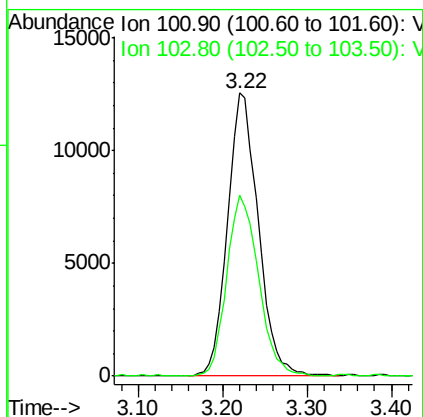
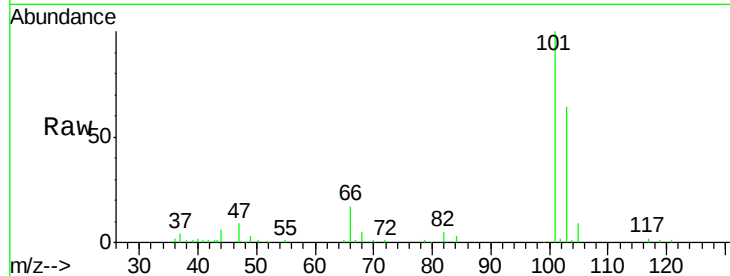


#7

Trichlorofluoromethane
 Concen: 20.455 ug/l
 RT: 3.22 min Scan# 216
 Delta R.T. -0.04 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

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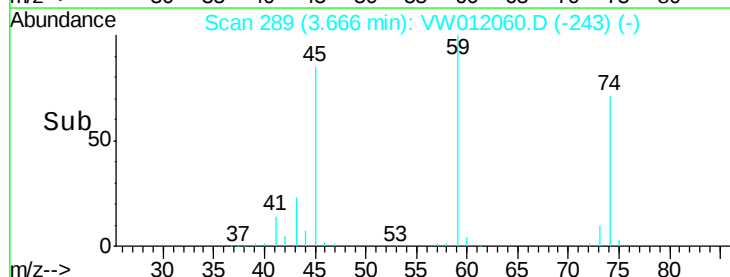
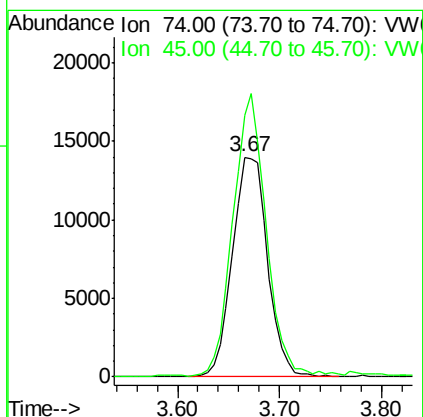
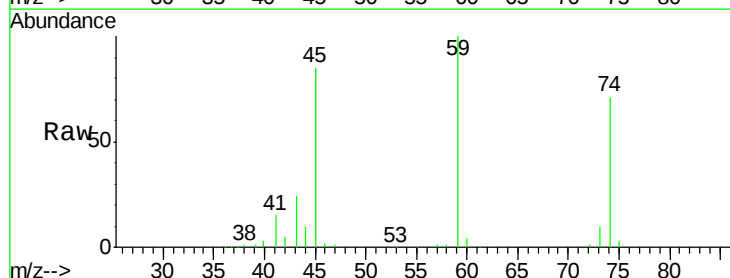
Tot Ion:101 Resp: 31279
 Ion Ratio Lower Upper
 101 100
 103 63.7 50.2 75.4

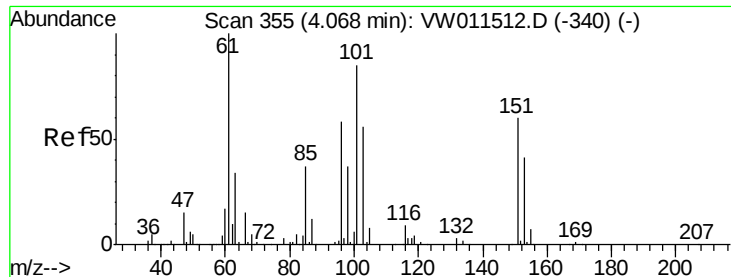


#8

Diethyl Ether
 Concen: 19.278 ug/l
 RT: 3.67 min Scan# 289
 Delta R.T. -0.02 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 74 Resp: 33425
 Ion Ratio Lower Upper
 74 100
 45 119.9 59.6 178.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.836 ug/l

RT: 4.04 min Scan# 351

Delta R.T. -0.02 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

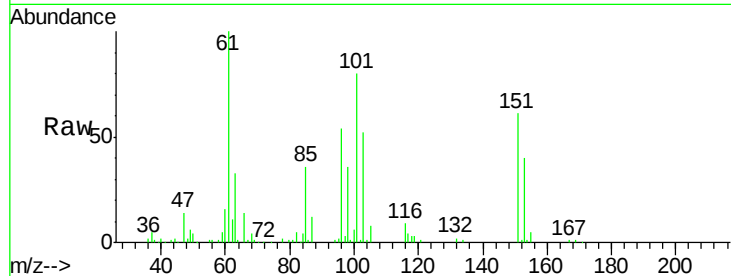
Tot Ion:101 Resp: 57542

Ion Ratio Lower Upper

101 100

85 44.9 36.6 54.8

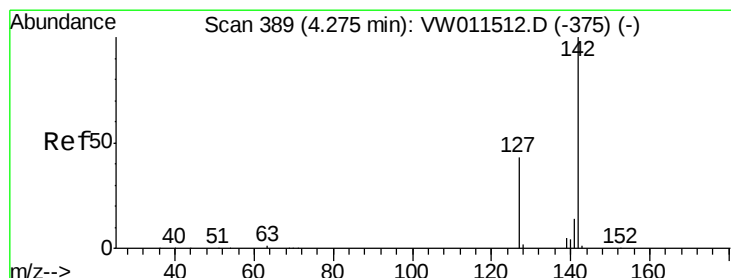
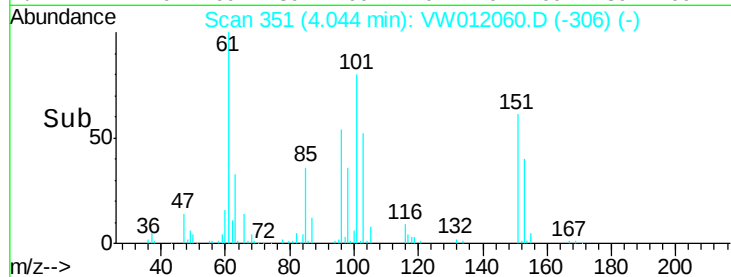
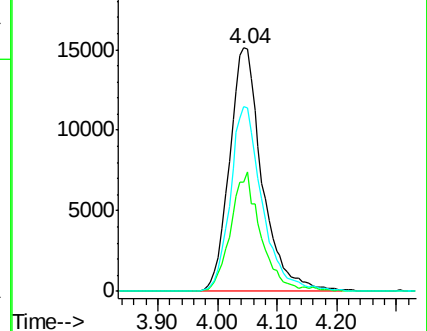
151 74.2 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.140 ug/l

RT: 4.25 min Scan# 385

Delta R.T. -0.02 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

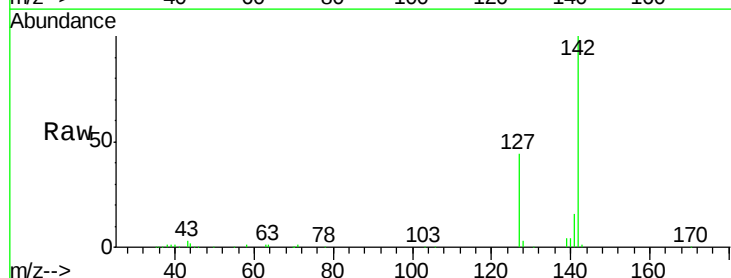
Tgt Ion:142 Resp: 74365

Ion Ratio Lower Upper

142 100

127 43.5 35.0 52.6

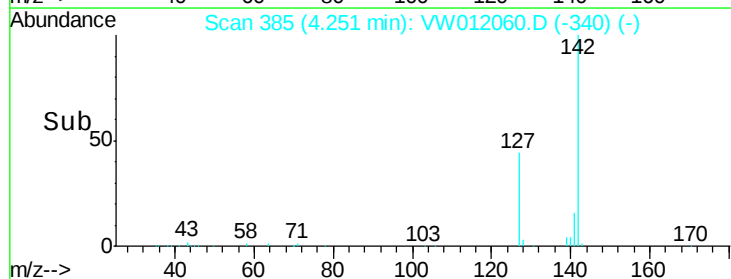
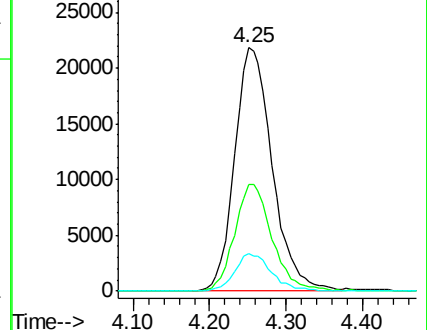
141 14.9 11.9 17.9

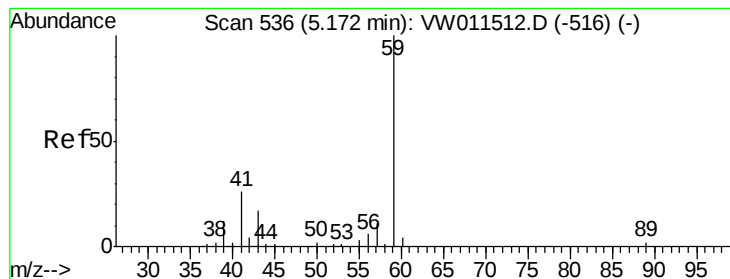


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



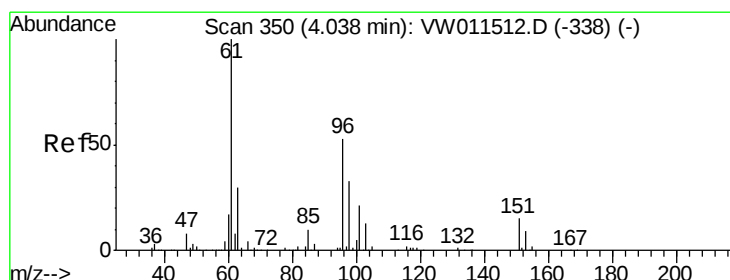
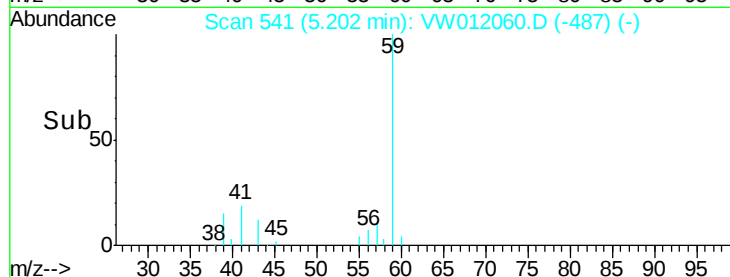
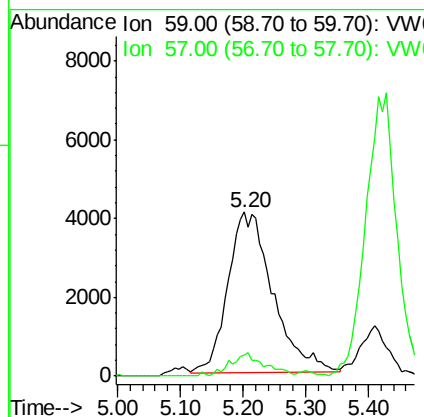
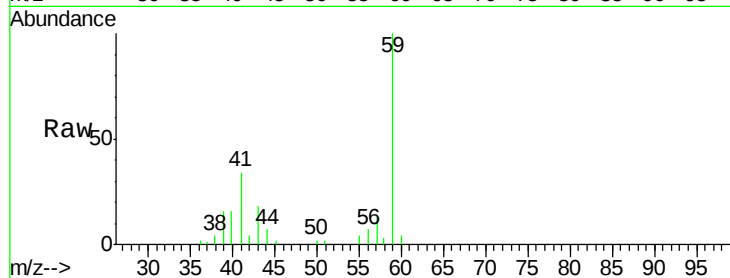


#11

Tert butyl alcohol
 Concen: 69.058 ug/l
 RT: 5.20 min Scan# 541
 Delta R.T. 0.03 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

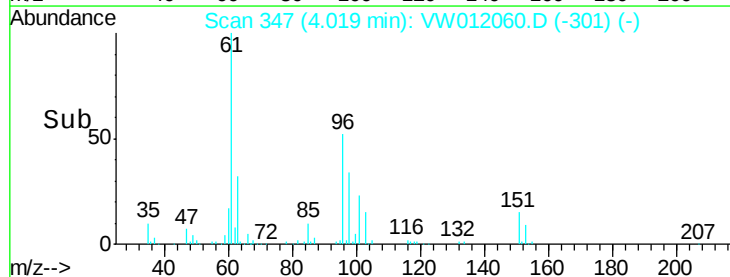
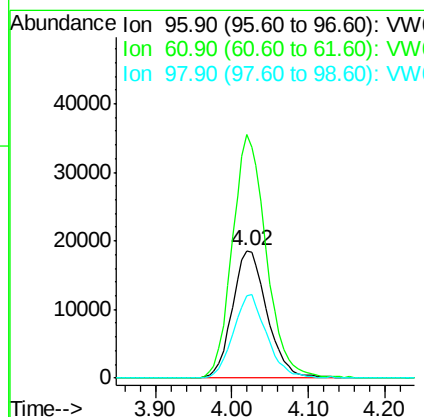
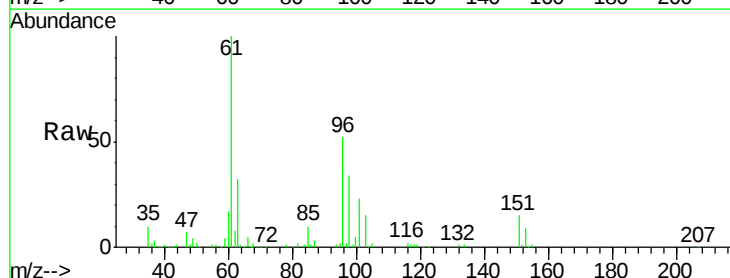
Tot Ion: 59 Resp: 20427
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.5 12.7

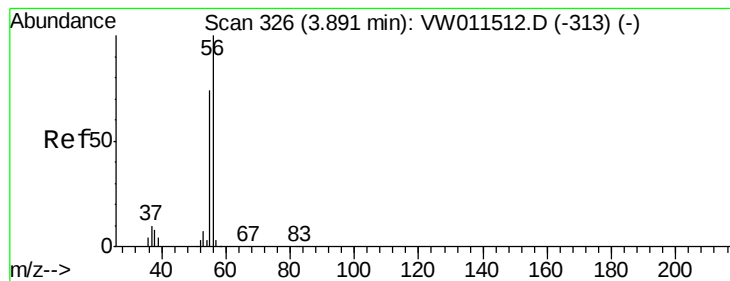


#12

1,1-Dichloroethene
 Concen: 19.067 ug/l
 RT: 4.02 min Scan# 347
 Delta R.T. -0.02 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 96 Resp: 58400
 Ion Ratio Lower Upper
 96 100
 61 190.8 149.9 224.9
 98 64.2 49.1 73.7





#13

Acrolein

Concen: 55.004 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

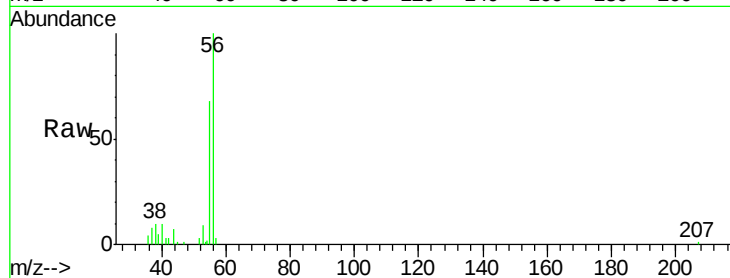
VW0821SBS01

Tot Ion: 56 Resp: 13328

Ion Ratio Lower Upper

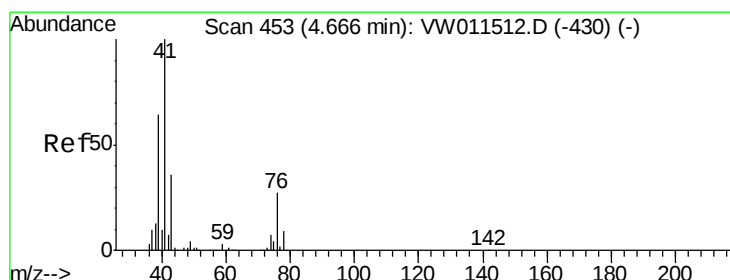
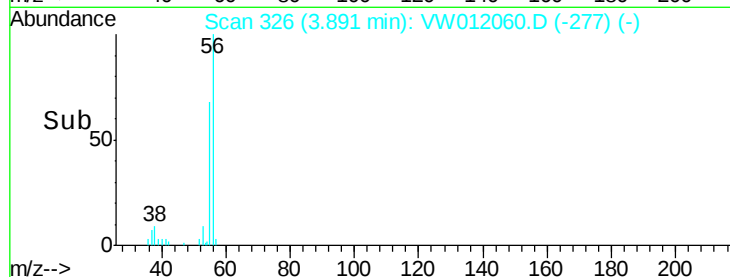
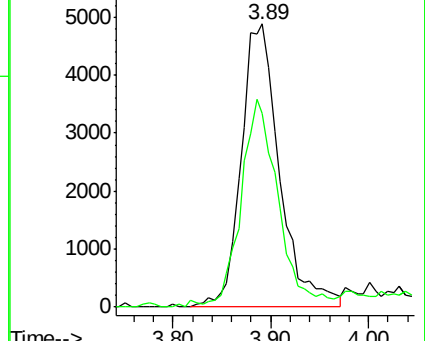
56 100

55 68.3 56.0 84.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 18.851 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

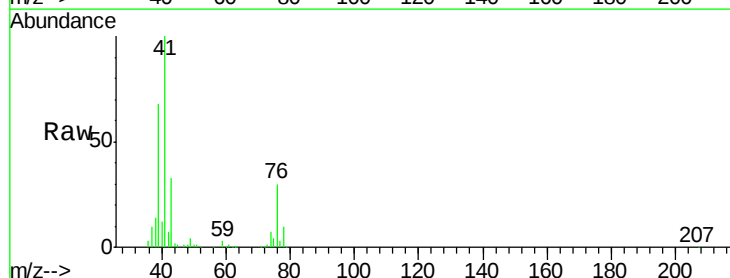
Tgt Ion: 41 Resp: 122800

Ion Ratio Lower Upper

41 100

39 66.6 52.6 78.8

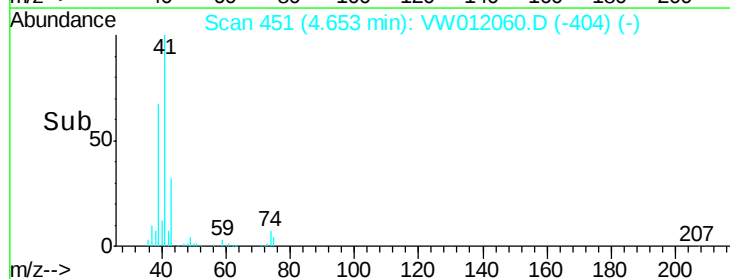
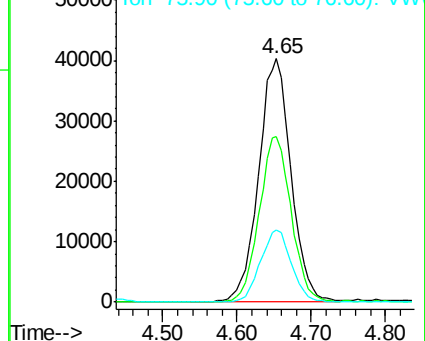
76 28.3 22.0 33.0

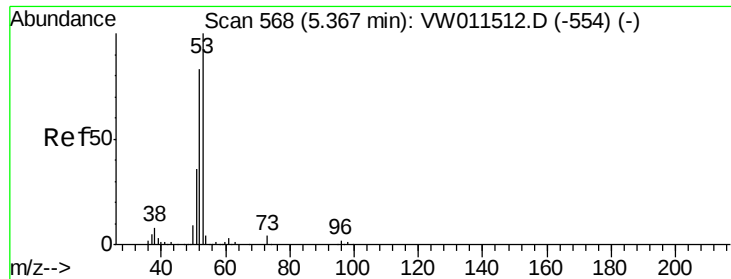


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 98.597 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

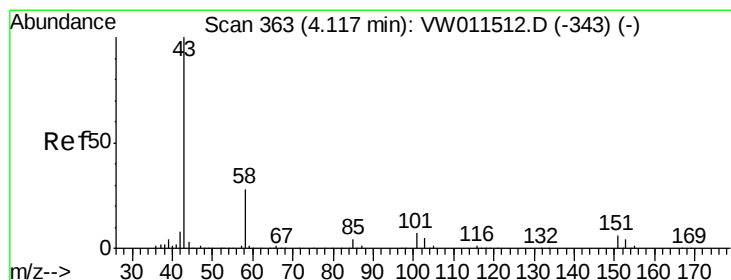
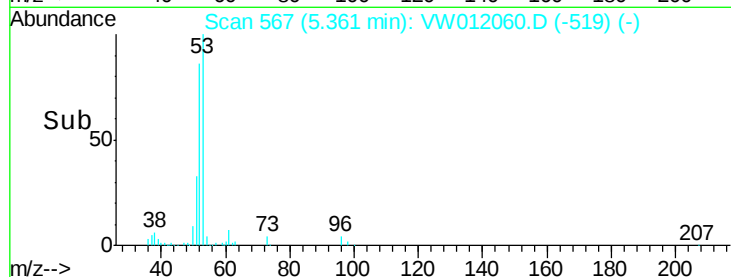
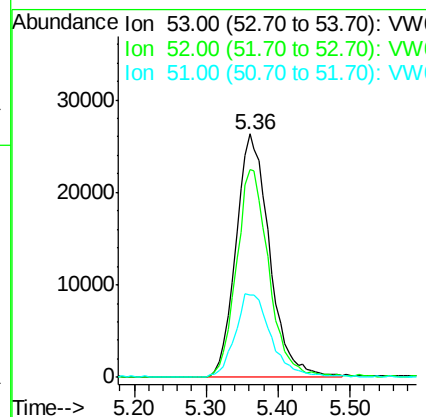
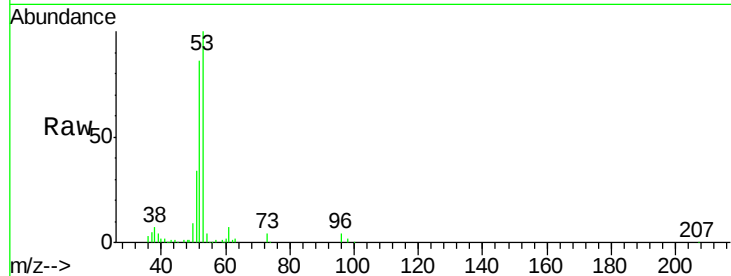
Tot Ion: 53 Resp: 85336

Ion Ratio Lower Upper

53 100

52 82.5 67.2 100.8

51 36.8 30.0 45.0



#16

Acetone

Concen: 76.927 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012060.D

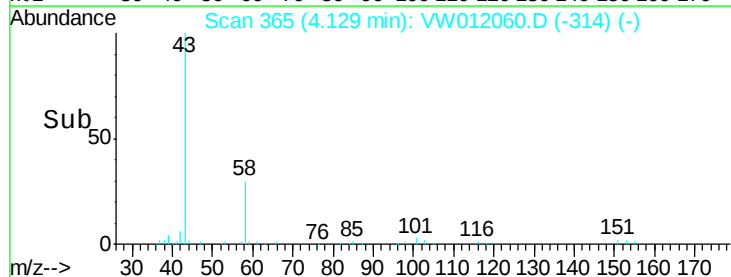
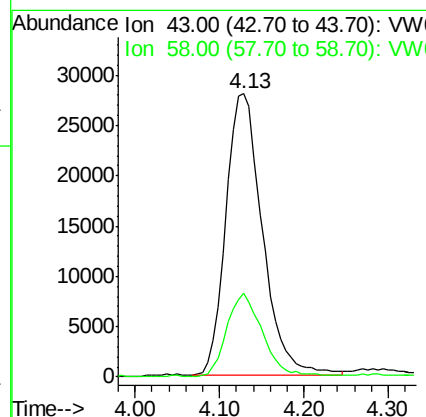
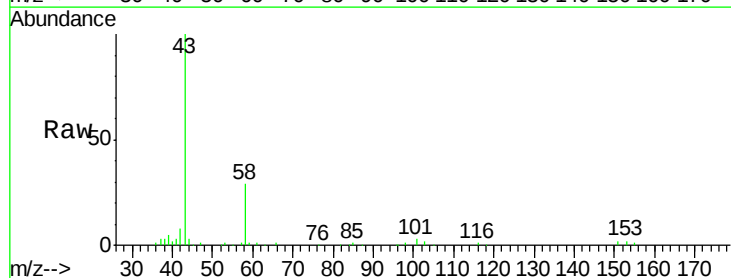
Acq: 21 Aug 2019 10:07

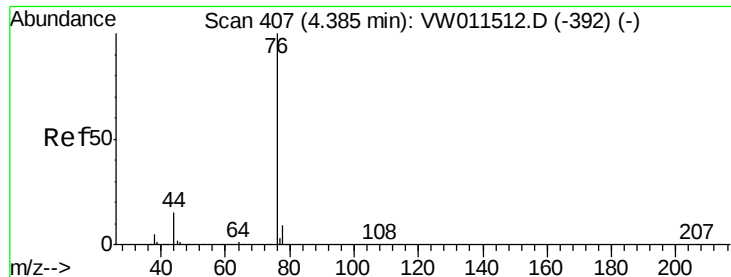
Tgt Ion: 43 Resp: 82636

Ion Ratio Lower Upper

43 100

58 29.7 22.3 33.5





#17

Carbon Disulfide

Concen: 15.874 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.02 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

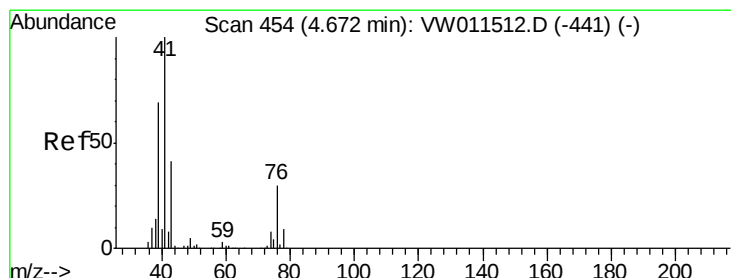
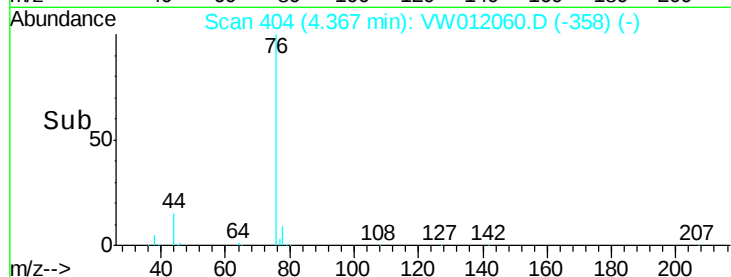
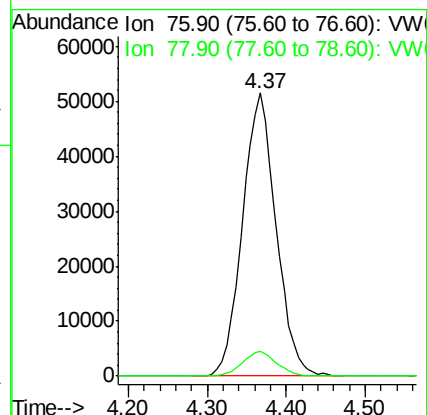
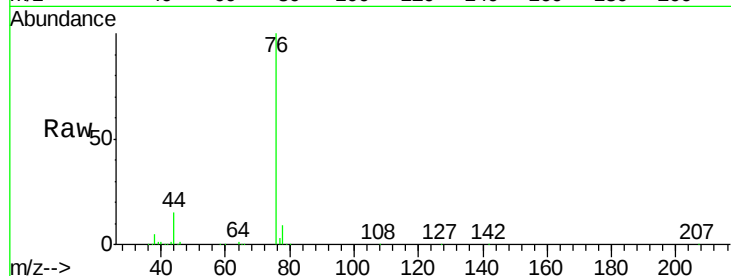
VW0821SBS01

Tot Ion: 76 Resp: 152169

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



#18

Methyl Acetate

Concen: 19.751 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW012060.D

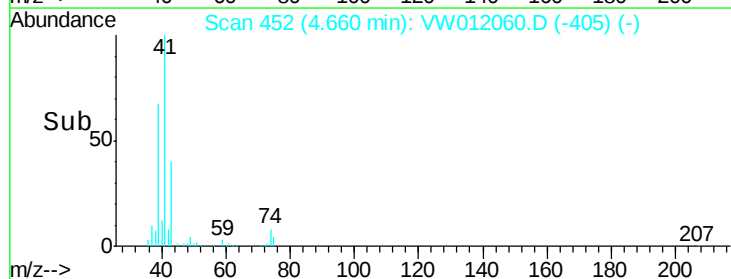
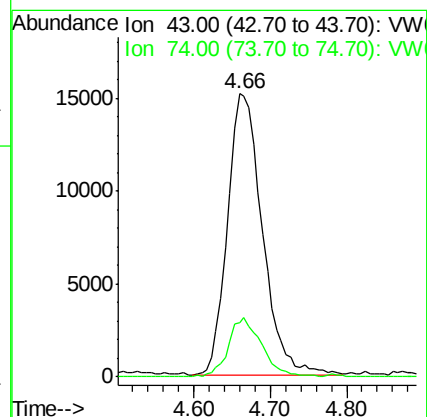
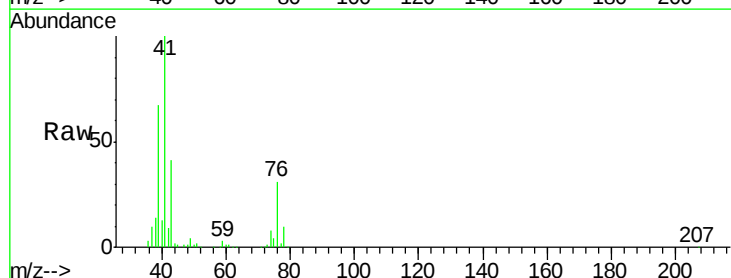
Acq: 21 Aug 2019 10:07

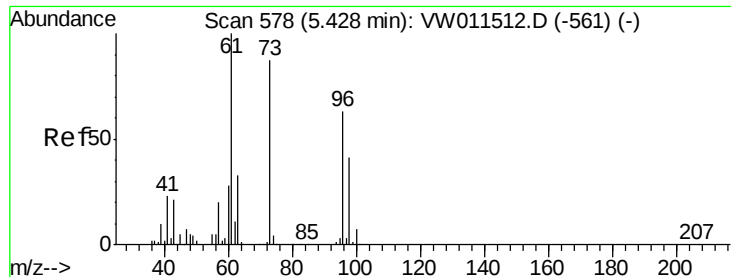
Tgt Ion: 43 Resp: 47664

Ion Ratio Lower Upper

43 100

74 20.3 15.9 23.9

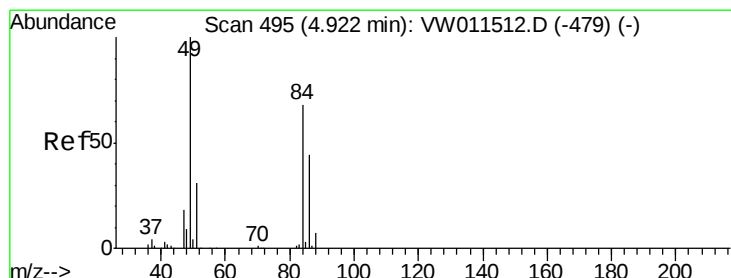
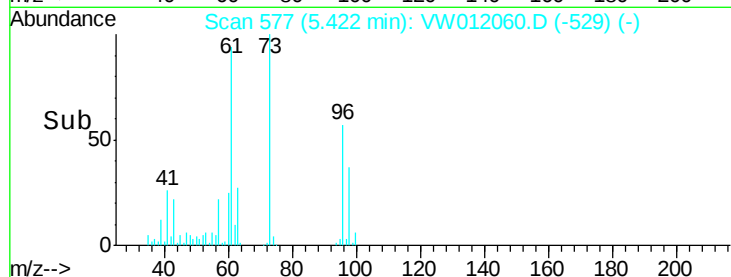
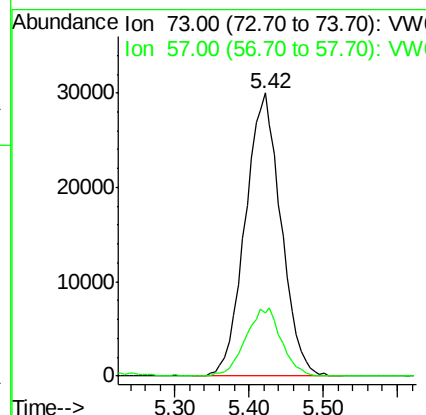
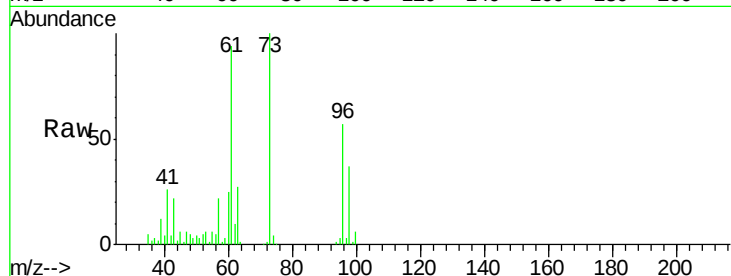




#19
Methyl tert-butyl Ether
Concen: 20.795 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

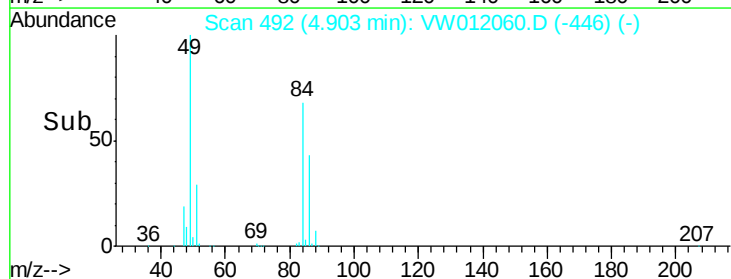
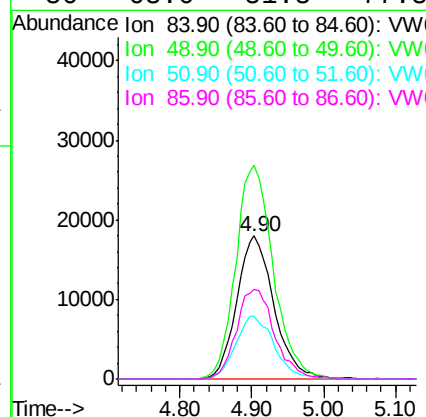
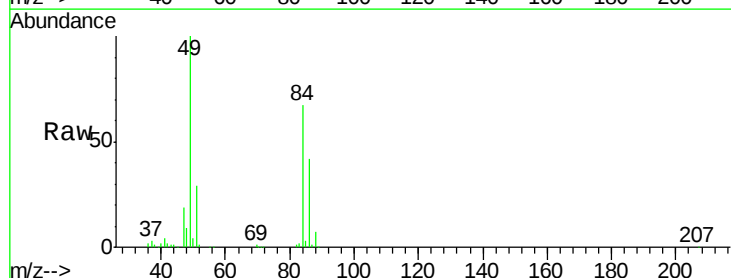
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

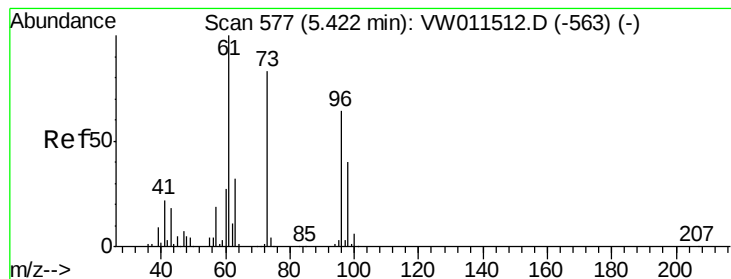
Tot Ion: 73 Resp: 101073
Ion Ratio Lower Upper
73 100
57 22.3 18.4 27.6



#20
Methylene Chloride
Concen: 17.424 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.02 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion: 84 Resp: 64552
Ion Ratio Lower Upper
84 100
49 149.6 117.8 176.6
51 44.0 37.0 55.4
86 63.0 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 19.473 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

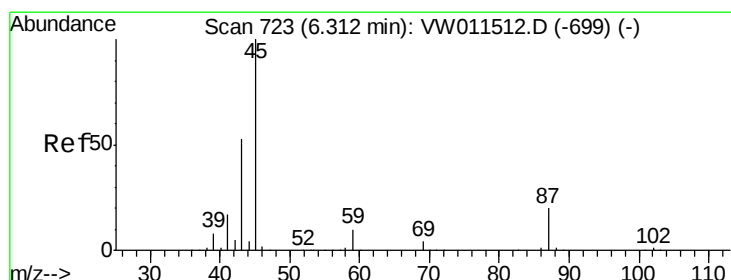
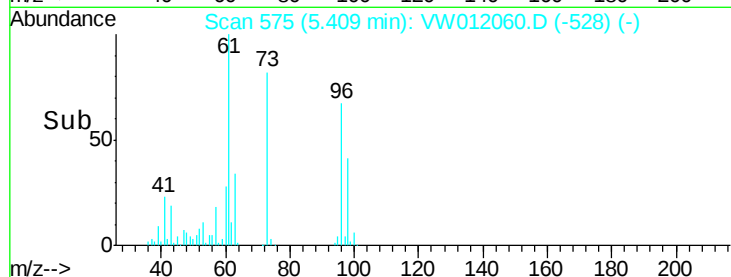
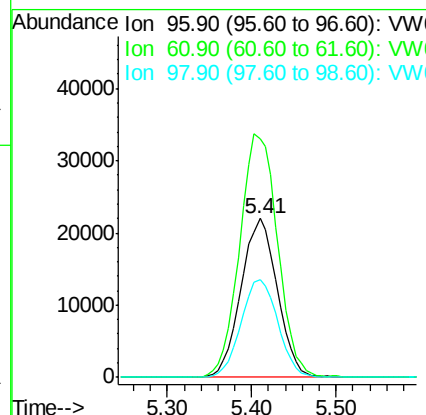
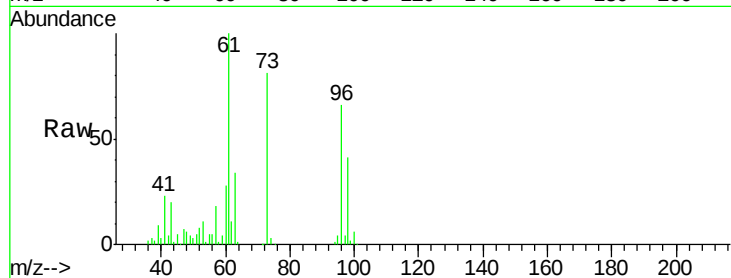
Tot Ion: 96 Resp: 64300

Ion Ratio Lower Upper

96 100

61 150.6 125.7 188.5

98 61.4 50.3 75.5



#22

Diisopropyl ether

Concen: 19.896 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Tgt Ion: 45 Resp: 244362

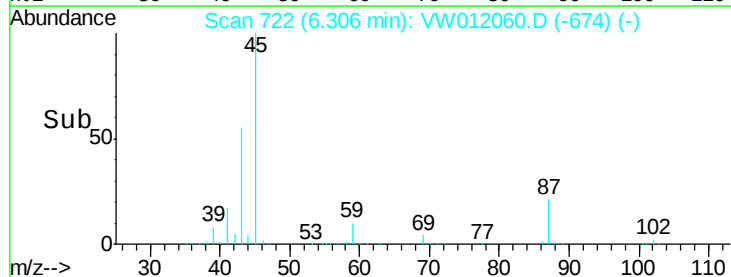
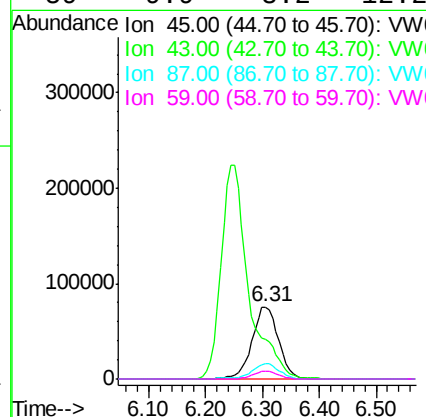
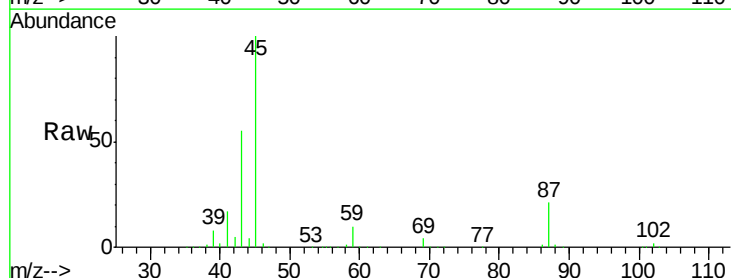
Ion Ratio Lower Upper

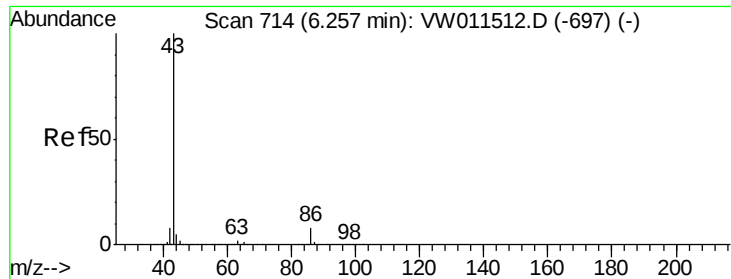
45 100

43 55.4 42.6 63.8

87 21.4 16.4 24.6

59 9.9 8.2 12.2





#23

Vinyl Acetate

Concen: 97.576 ug/l

RT: 6.24 min Scan# 712

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

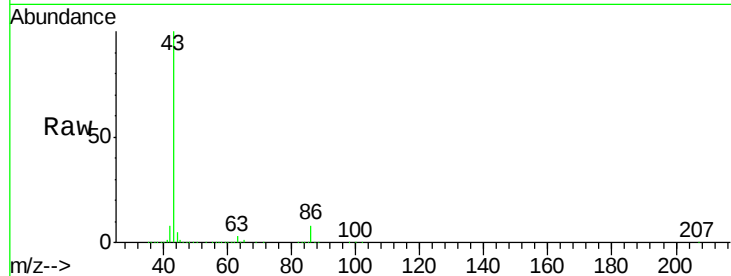
VW0821SBS01

Tot Ion: 43 Resp: 753036

Ion Ratio Lower Upper

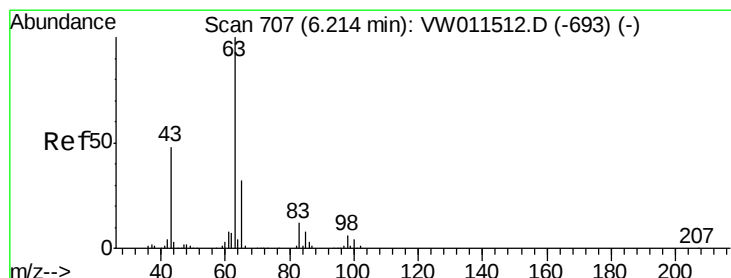
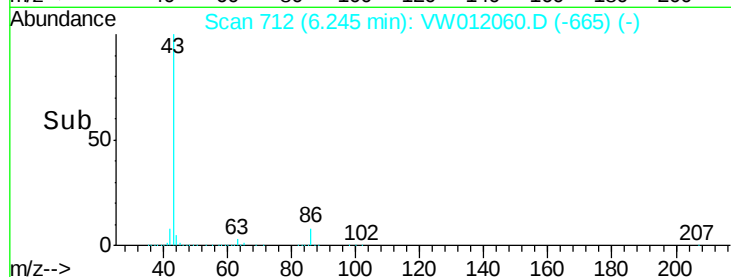
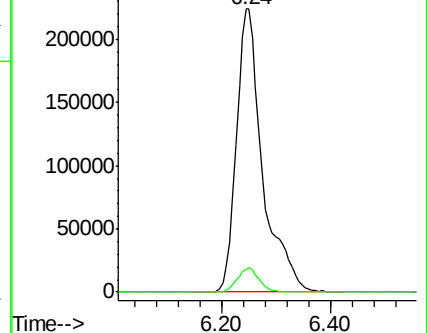
43 100

86 7.7 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 19.496 ug/l

RT: 6.20 min Scan# 705

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

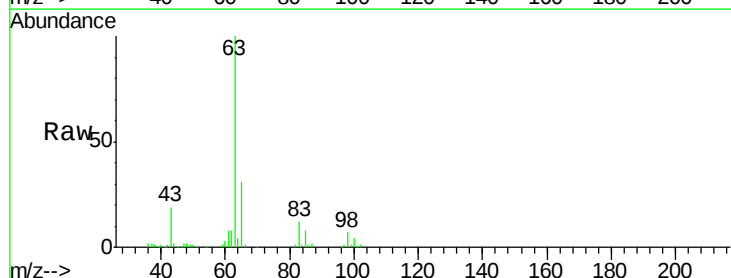
Tgt Ion: 63 Resp: 128242

Ion Ratio Lower Upper

63 100

98 6.6 2.9 8.8

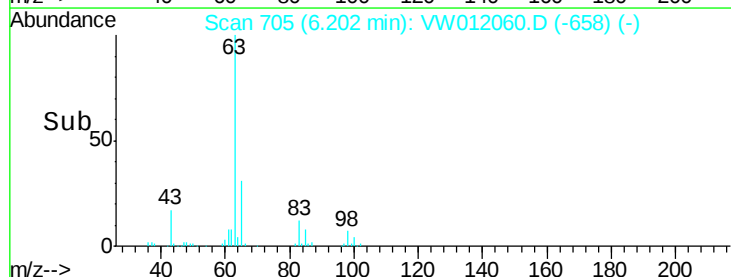
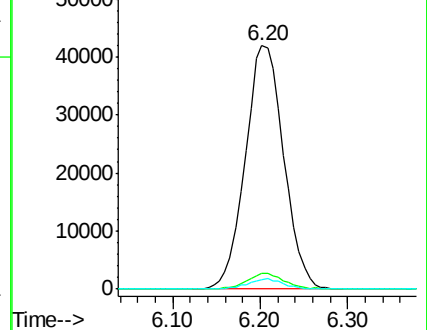
100 3.9 2.1 6.3

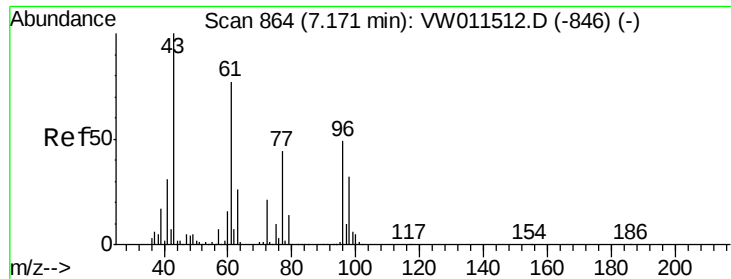


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 92.022 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

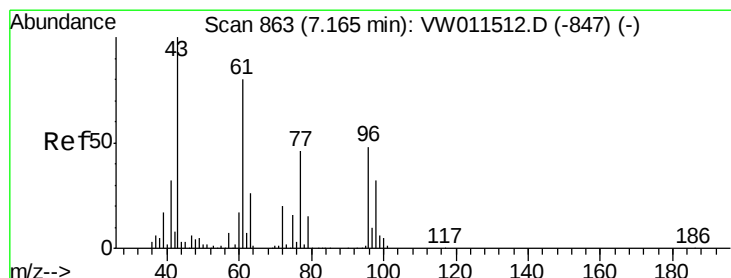
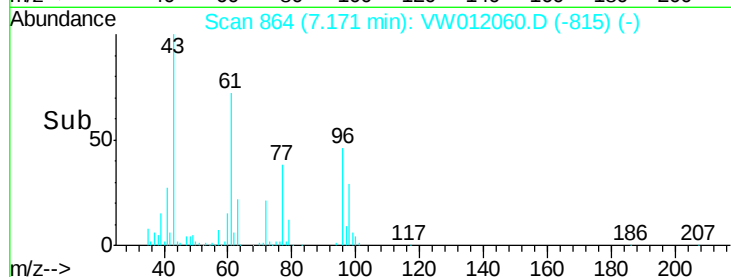
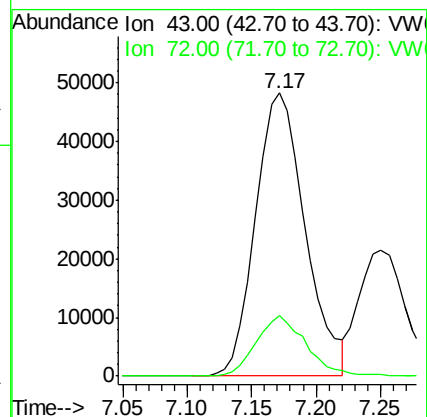
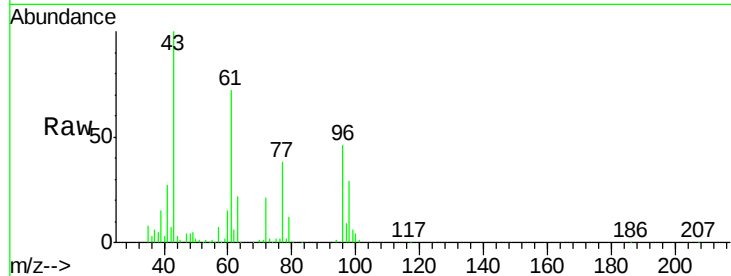
VW0821SBS01

Tot Ion: 43 Resp: 129350

Ion Ratio Lower Upper

43 100

72 21.3 16.6 24.8



#26

2,2-Dichloropropane

Concen: 16.663 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW012060.D

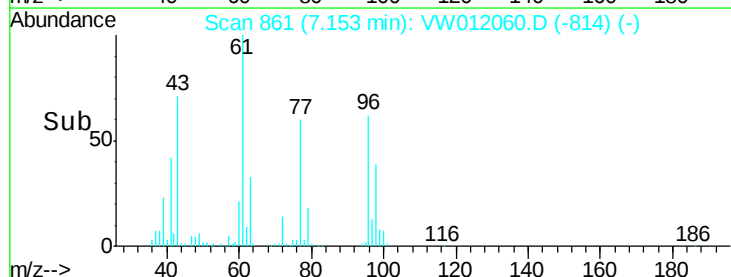
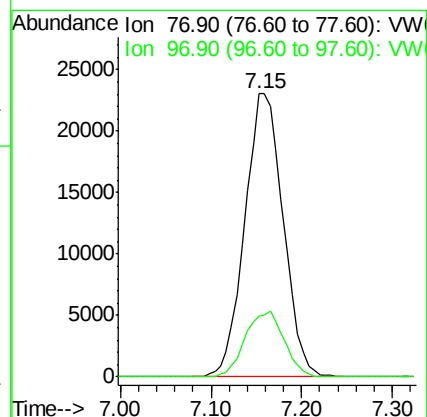
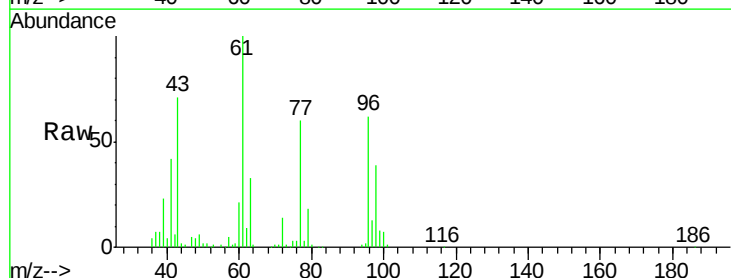
Acq: 21 Aug 2019 10:07

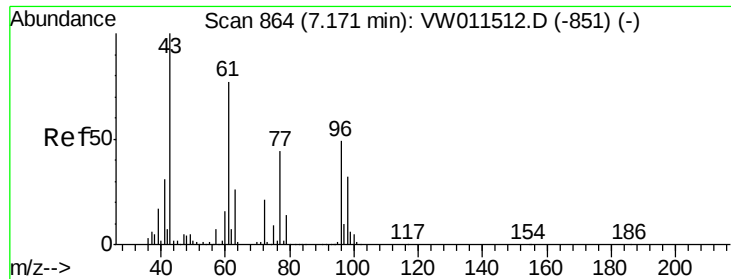
Tgt Ion: 77 Resp: 67407

Ion Ratio Lower Upper

77 100

97 23.5 10.8 32.4

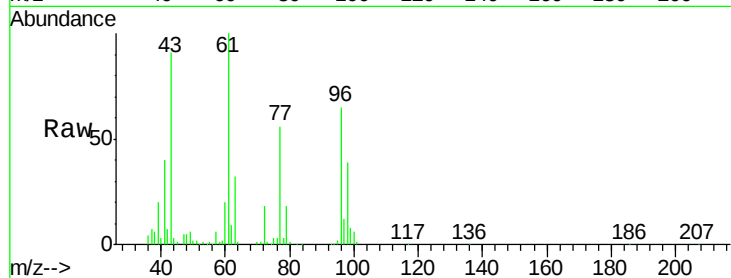




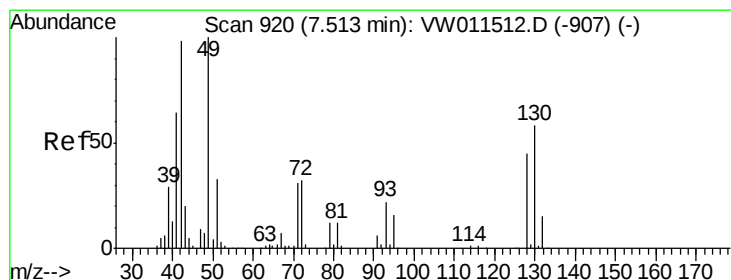
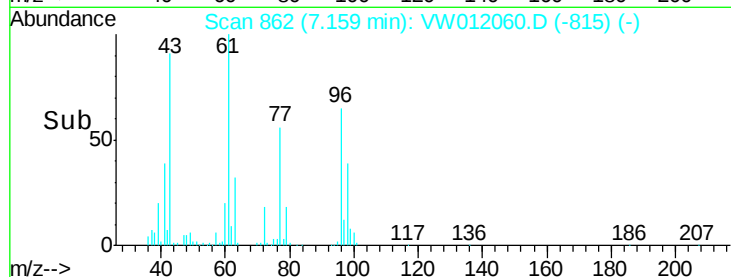
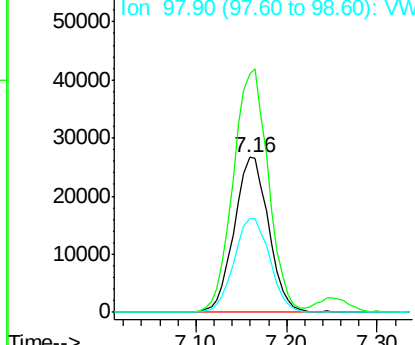
#27
 cis-1,2-Dichloroethene
 Concen: 19.317 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Instrument :
 MSVOA_W
 ClientSampled :
 VW0821SBS01

Tot Ion: 96 Resp: 70204
 Ion Ratio Lower Upper
 96 100
 61 160.1 0.0 328.4
 98 62.9 0.0 128.8

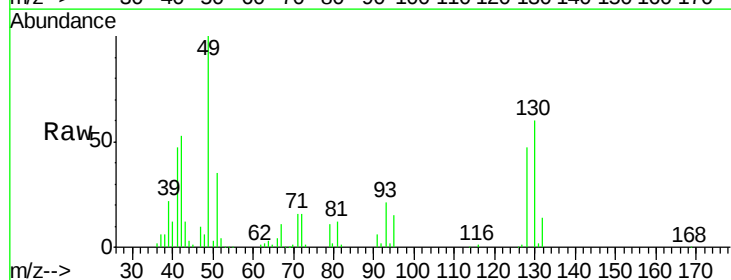


Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW

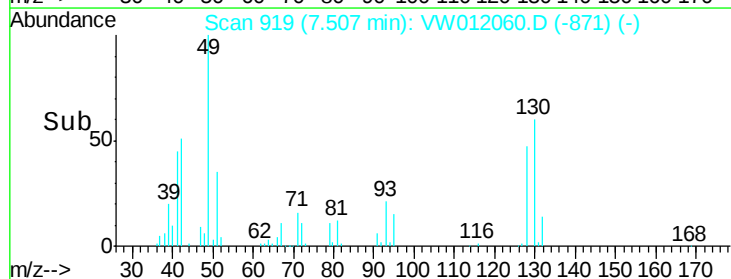
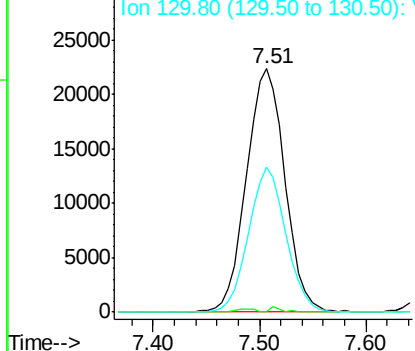


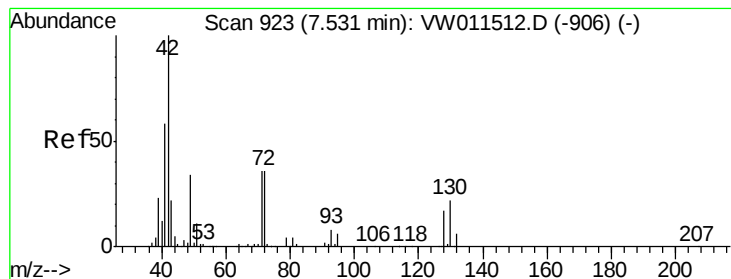
#28
 Bromochloromethane
 Concen: 19.393 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 49 Resp: 56621
 Ion Ratio Lower Upper
 49 100
 129 0.6 0.0 1.0
 130 57.7 46.3 69.5



Abundance Ion 48.90 (48.60 to 49.60): VW
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 97.220 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

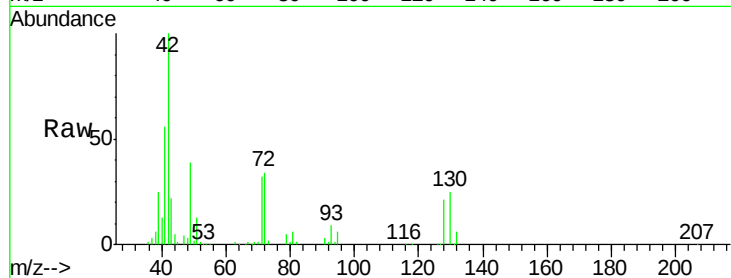
Tot Ion: 42 Resp: 78114

Ion Ratio Lower Upper

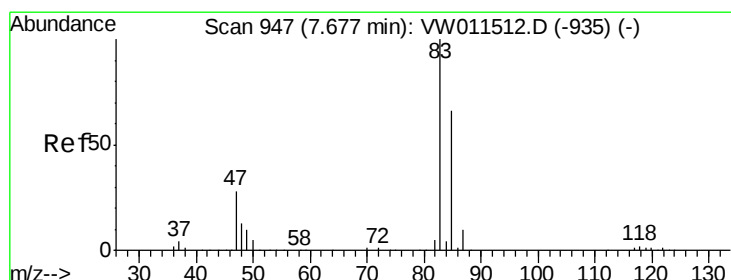
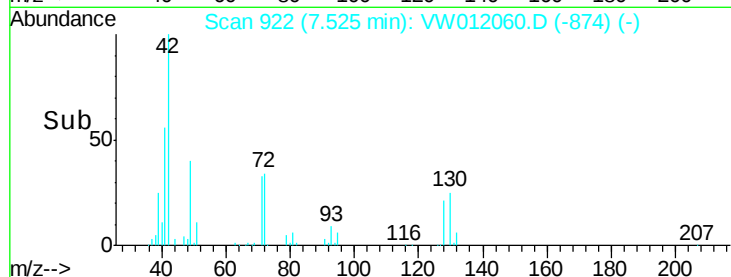
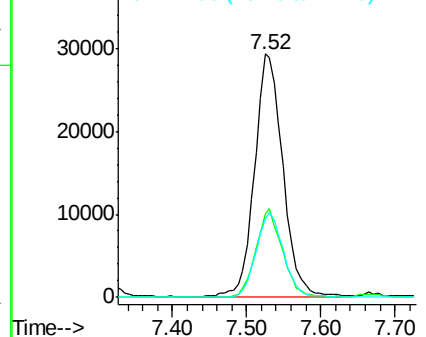
42 100

72 34.2 27.1 40.7

71 33.9 26.2 39.4



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



#30

Chloroform

Concen: 19.191 ug/l

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW012060.D

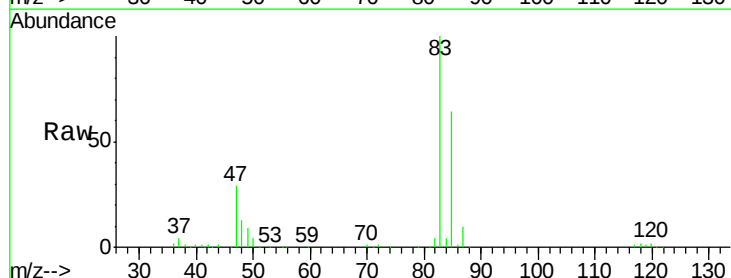
Acq: 21 Aug 2019 10:07

Tgt Ion: 83 Resp: 116460

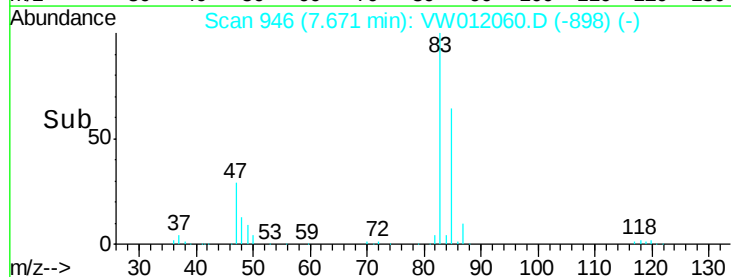
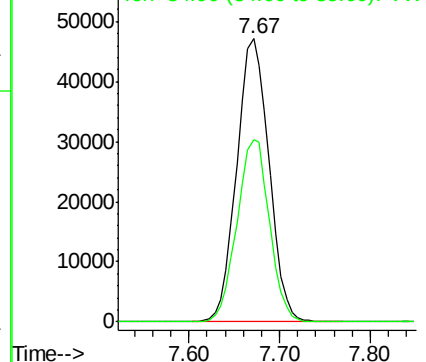
Ion Ratio Lower Upper

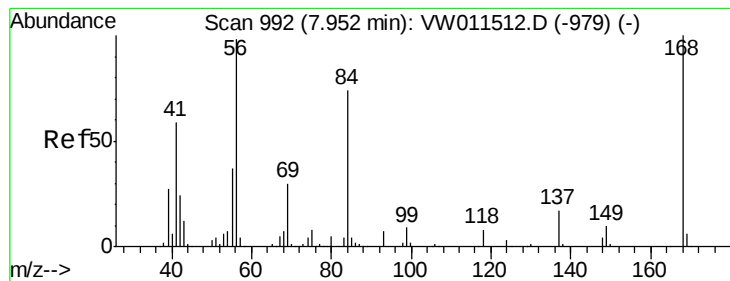
83 100

85 64.4 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 19.604 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

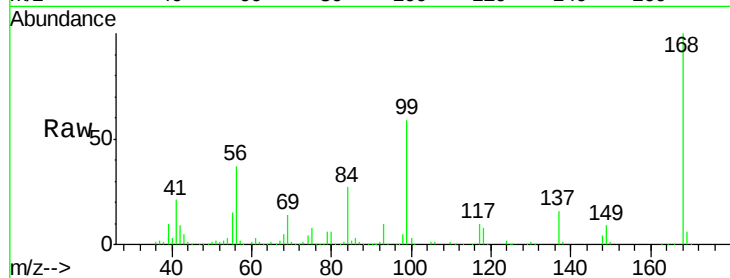
Tot Ion: 56 Resp: 123782

Ion Ratio Lower Upper

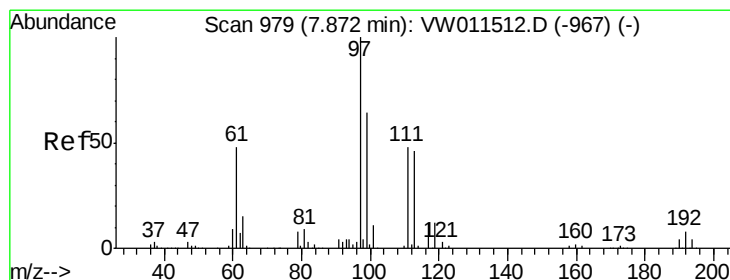
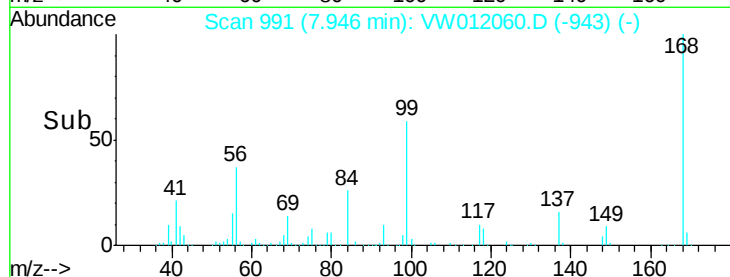
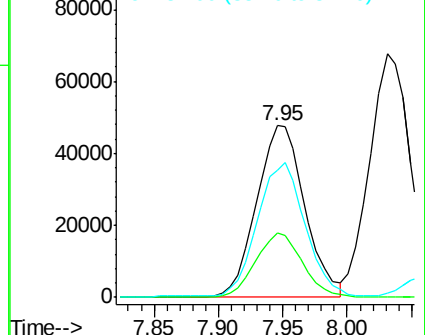
56 100

69 37.5 24.3 36.5#

84 73.1 60.4 90.6



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



#32

1,1,1-Trichloroethane

Concen: 19.546 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

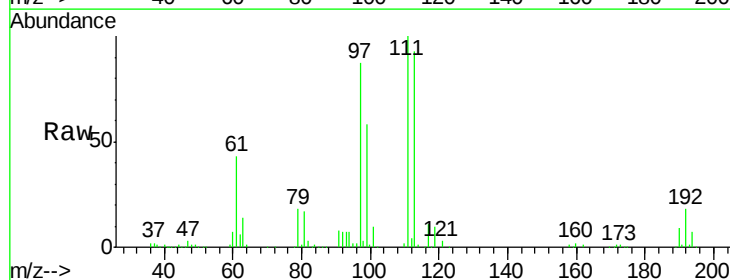
Tgt Ion: 97 Resp: 90334

Ion Ratio Lower Upper

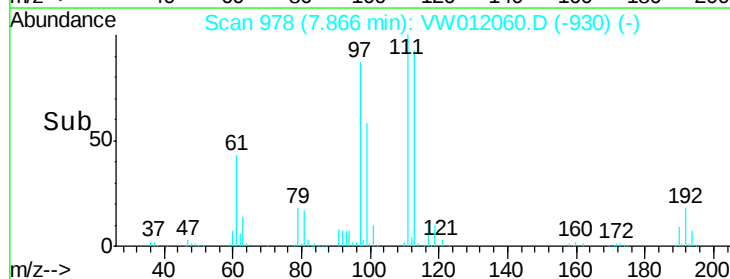
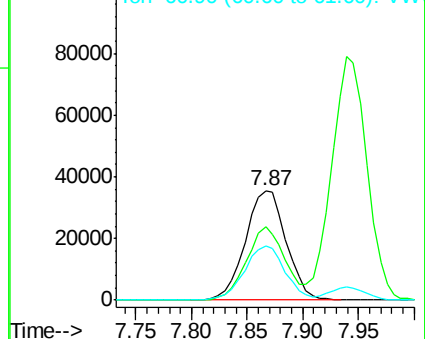
97 100

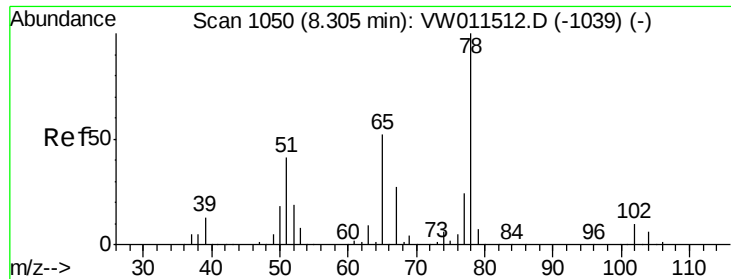
99 64.3 51.0 76.6

61 49.5 39.8 59.6



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW

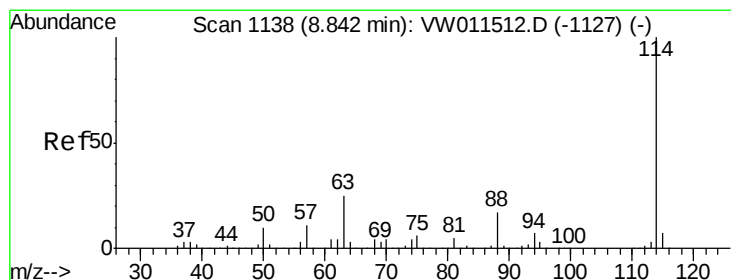
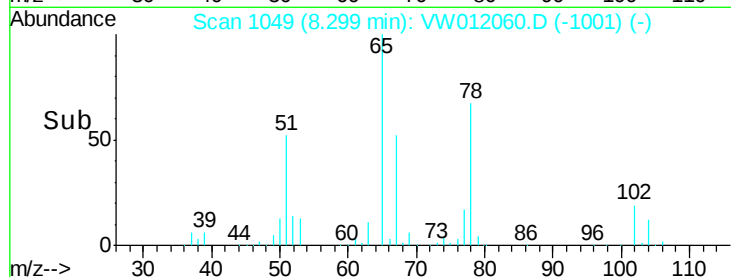
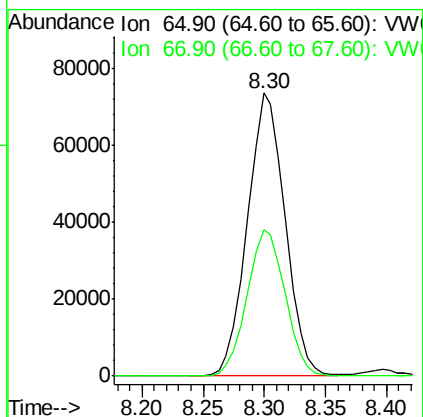
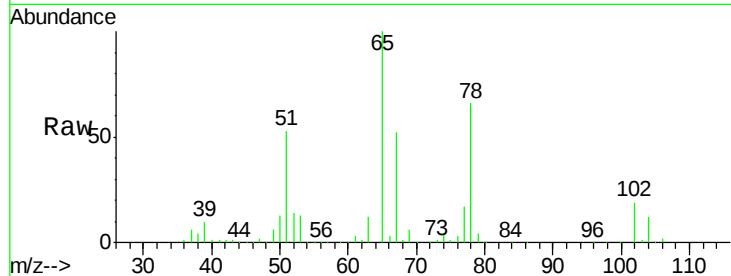




#33
 1,2-Dichloroethane-d4
 Concen: 46.823 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

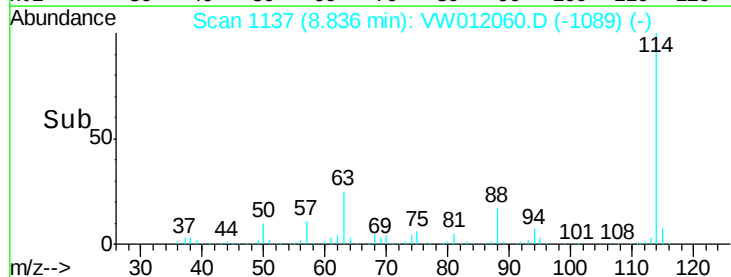
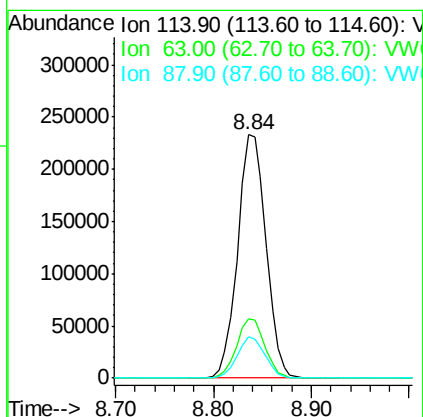
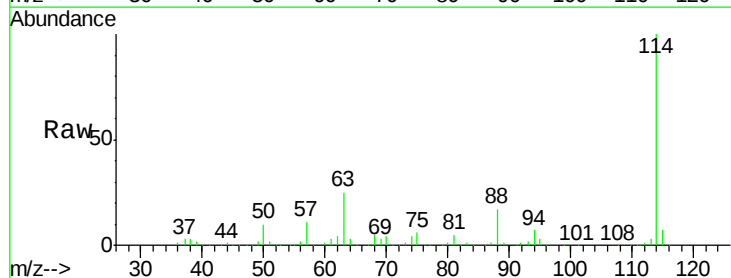
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

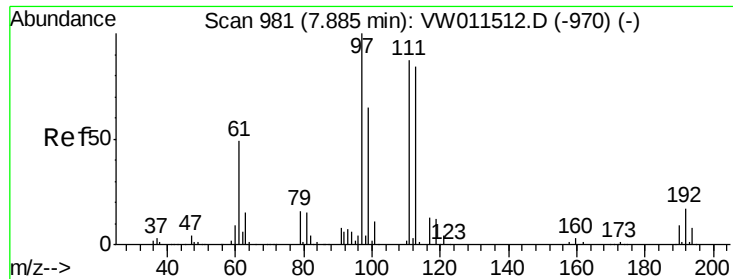
Tot Ion: 65 Resp: 158120
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 114 Resp: 469440
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 49.2
 88 16.9 0.0 33.8

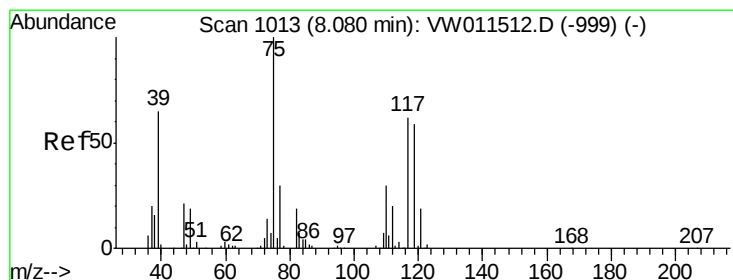
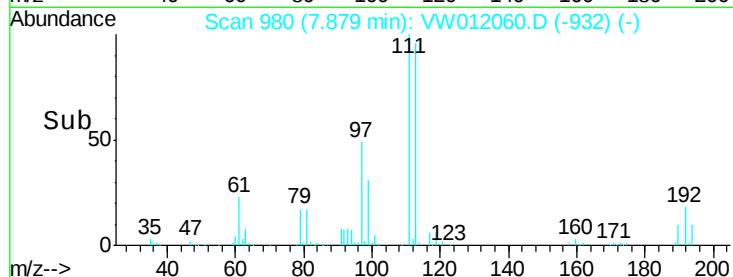
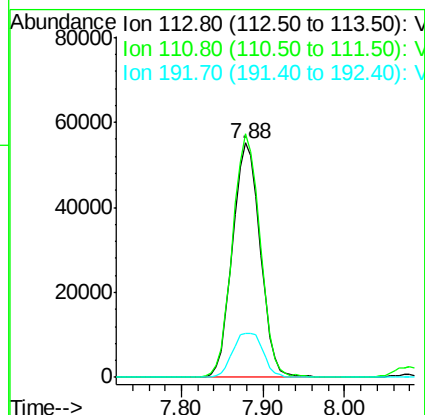
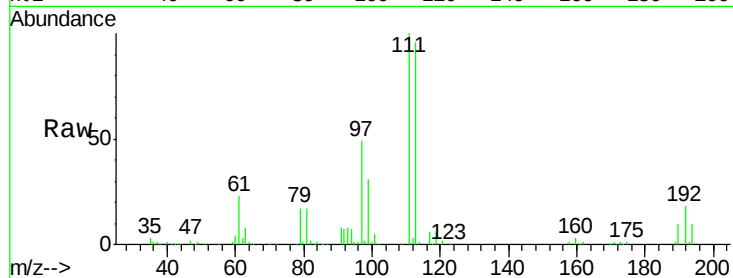




#35
 Dibromofluoromethane
 Concen: 49.007 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

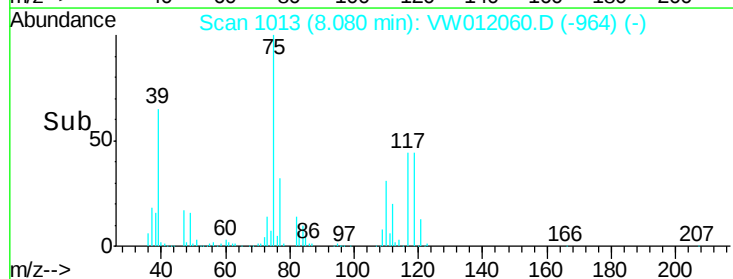
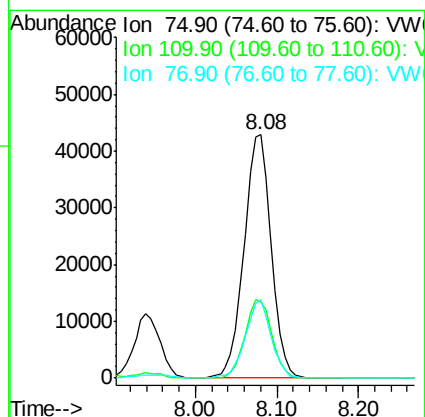
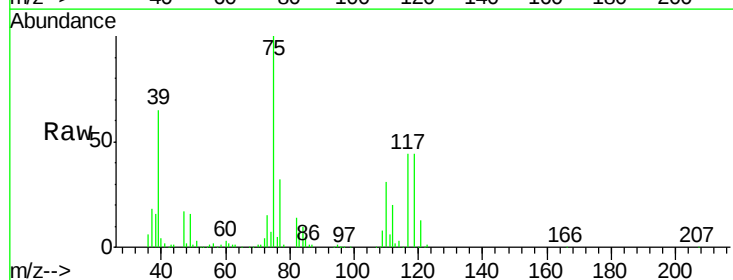
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

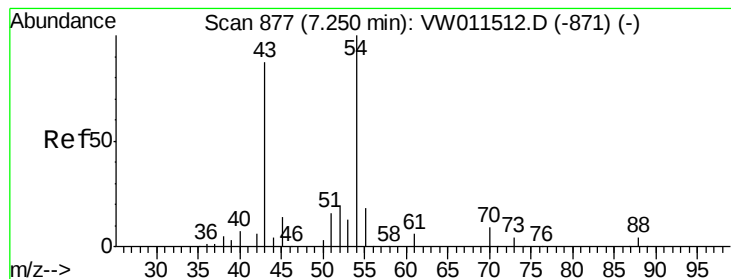
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.7	124.1
192	20.7	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 20.338 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.9	15.6	46.8
77	30.9	24.3	36.5





#37

Ethyl Acetate

Concen: 19.927 ug/l

RT: 7.25 min Scan# 877

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

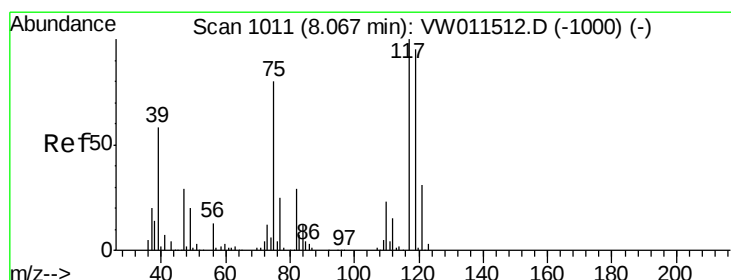
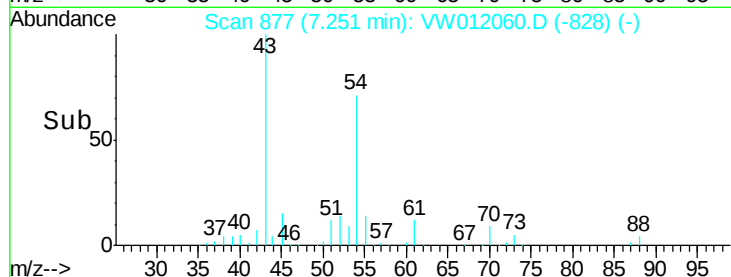
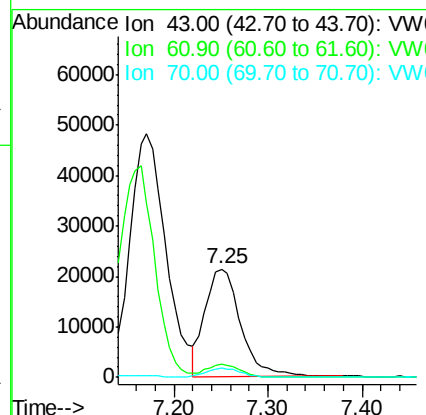
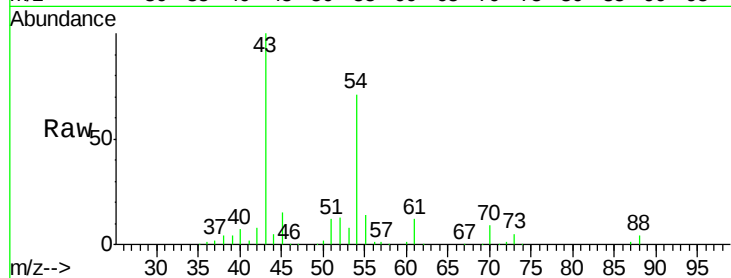
Tot Ion: 43 Resp: 55963

Ion Ratio Lower Upper

43 100

61 11.6 8.8 13.2

70 8.8 7.1 10.7



#38

Carbon Tetrachloride

Concen: 19.967 ug/l

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

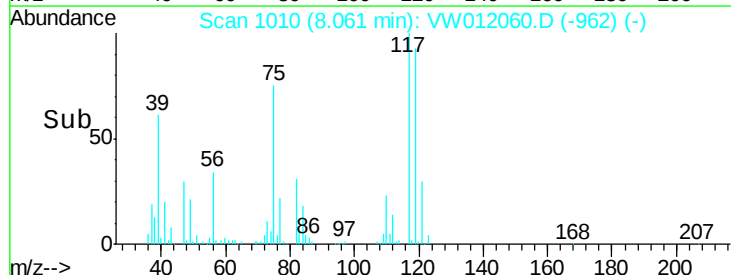
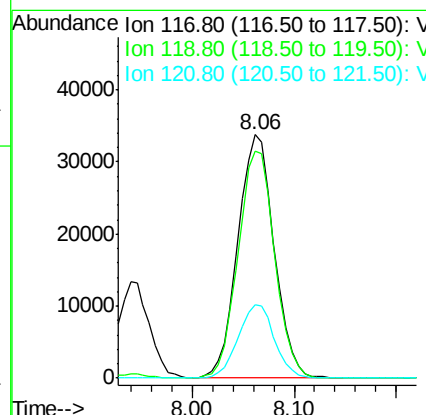
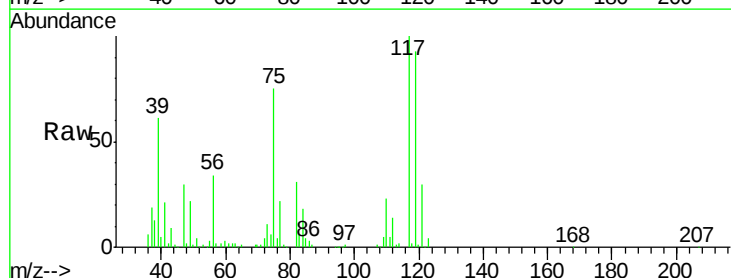
Tgt Ion: 117 Resp: 83435

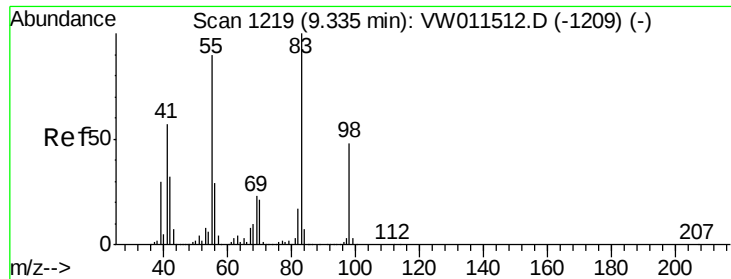
Ion Ratio Lower Upper

117 100

119 93.4 75.8 113.6

121 30.3 24.7 37.1

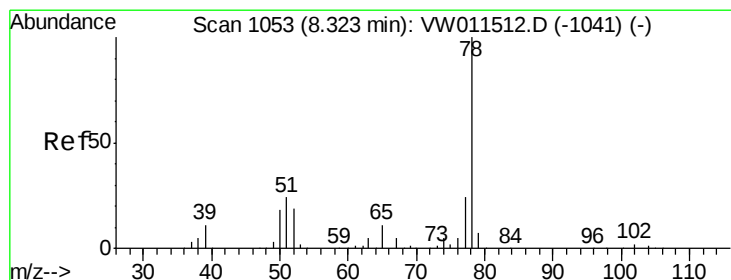
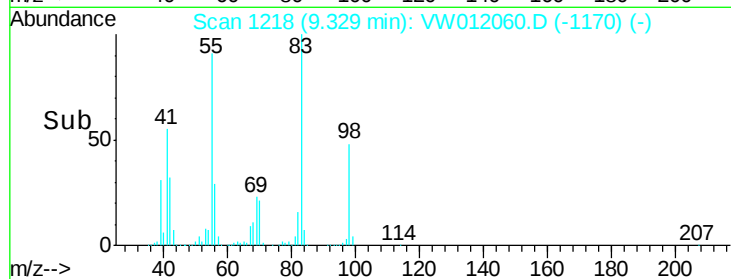
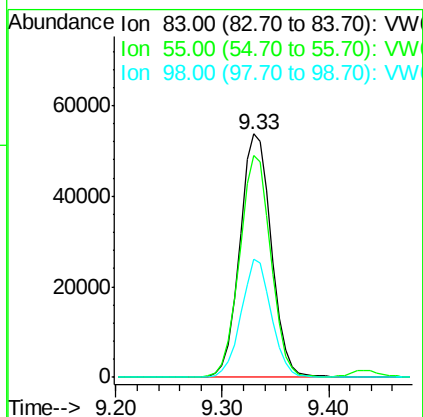
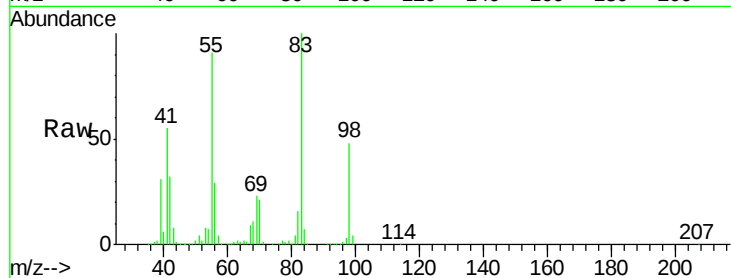




#39
Methvlcvclohexane
Concen: 20.745 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

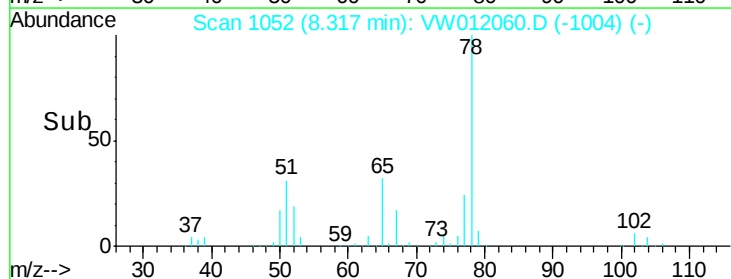
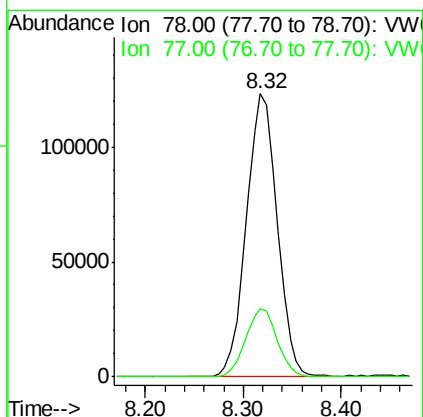
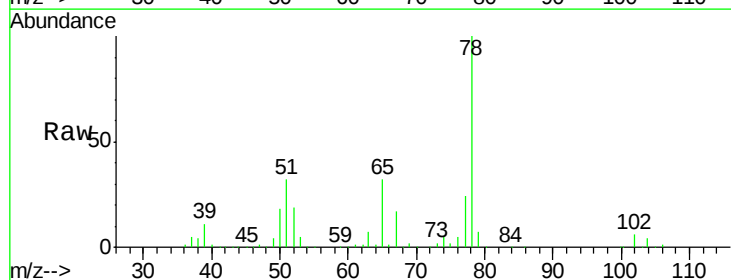
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

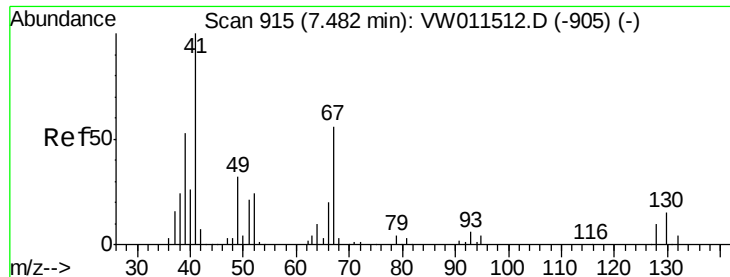
Tot Ion: 83 Resp: 111502
Ion Ratio Lower Upper
83 100
55 90.8 72.1 108.1
98 48.3 38.6 57.8



#40
Benzene
Concen: 19.733 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion: 78 Resp: 269805
Ion Ratio Lower Upper
78 100
77 24.1 19.4 29.0

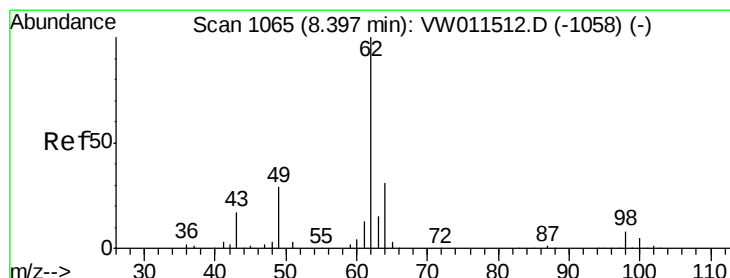
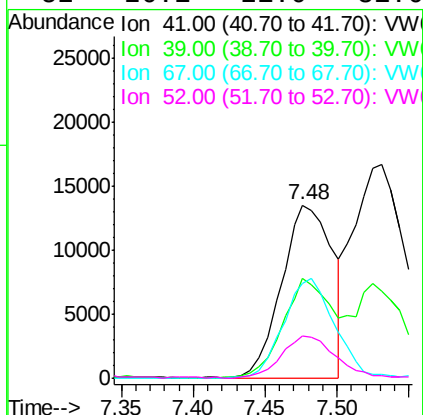
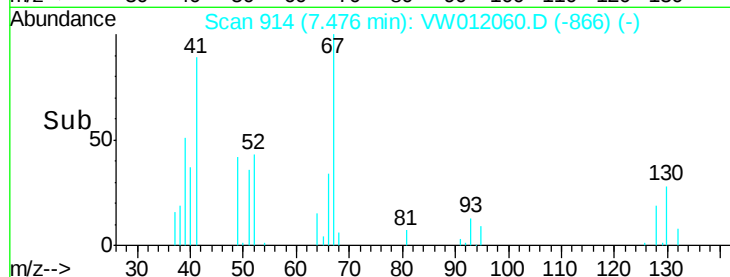
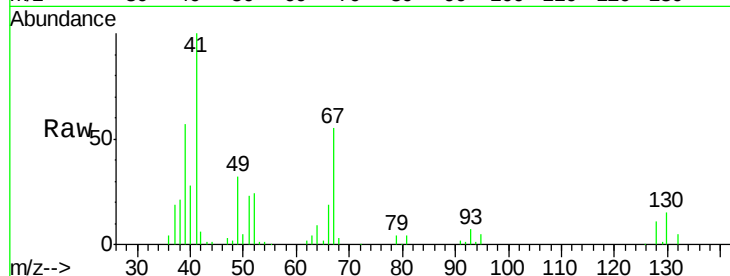




#41
Methacrylonitrile
Concen: 19.833 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

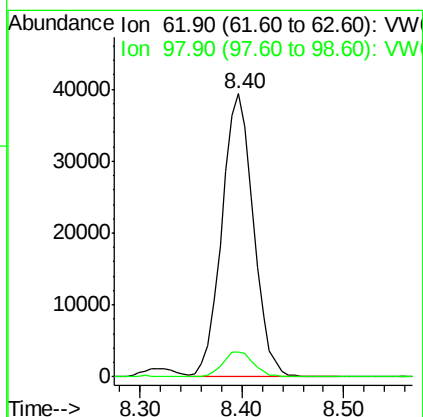
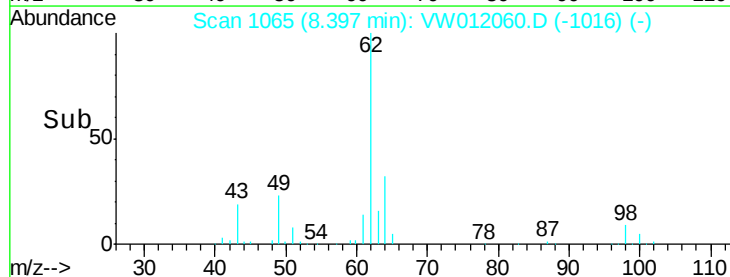
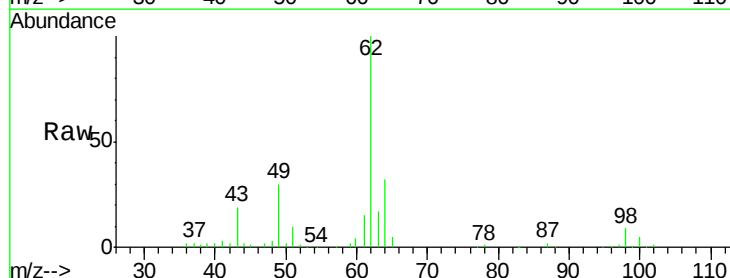
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

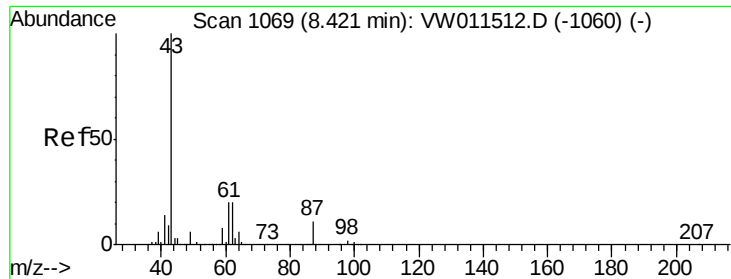
Tot Ion:	41	Resp:	33294
Ion	Ratio	Lower	Upper
41	100		
39	54.3	43.0	64.4
67	58.2	47.5	71.3
52	26.1	21.0	31.6



#42
1,2-Dichloroethane
Concen: 19.687 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion:	62	Resp:	84276
Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	16.8





#43

Isopropyl Acetate

Concen: 20.120 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

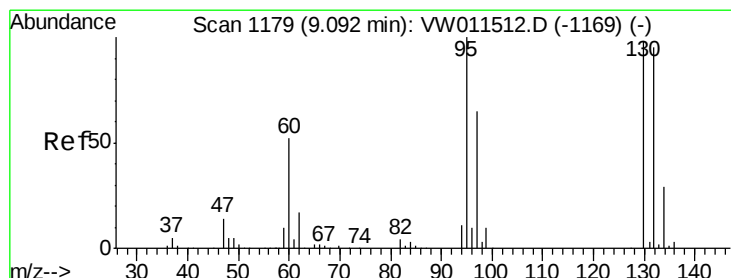
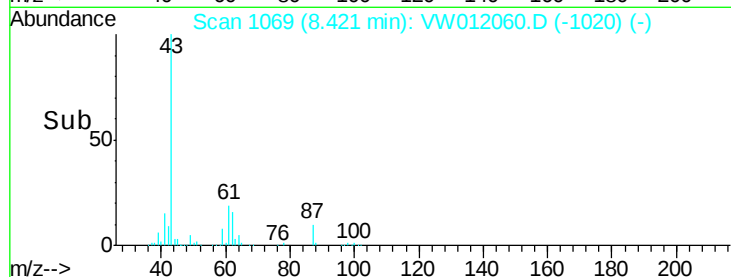
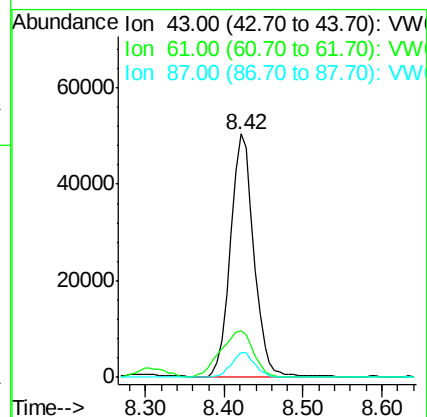
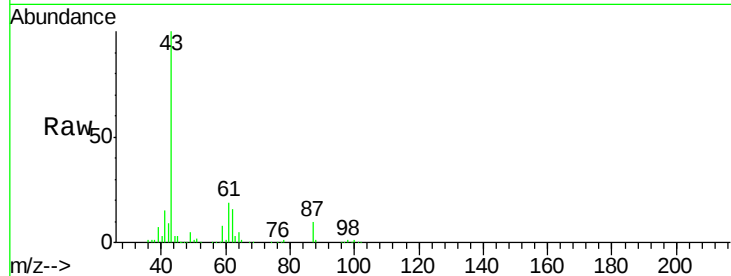
Tot Ion: 43 Resp: 103914

Ion Ratio Lower Upper

43 100

61 26.6 21.5 32.3

87 10.3 8.4 12.6



#44

Trichloroethene

Concen: 19.963 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW012060.D

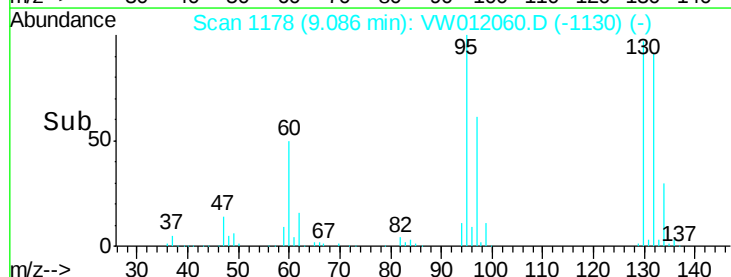
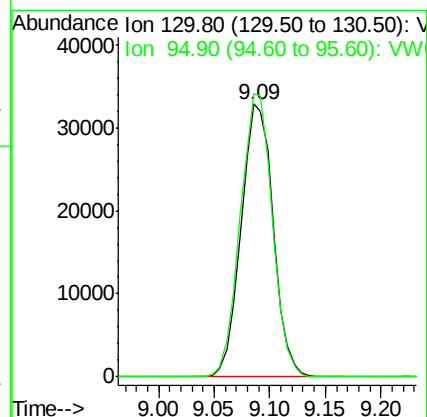
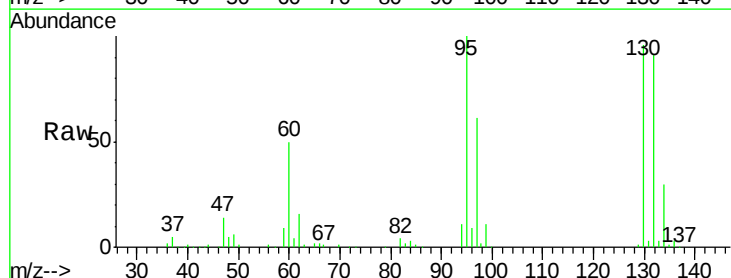
Acq: 21 Aug 2019 10:07

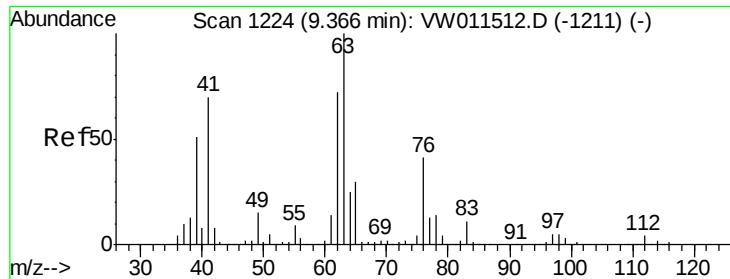
Tgt Ion: 130 Resp: 65602

Ion Ratio Lower Upper

130 100

95 103.7 0.0 204.8

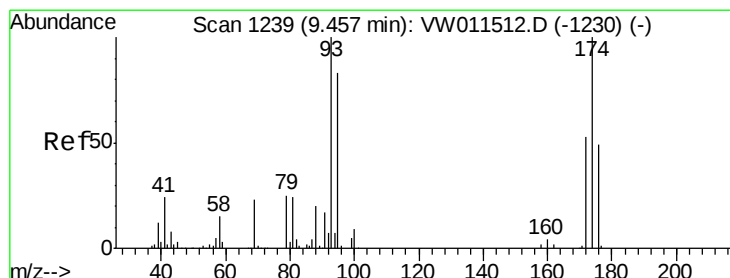
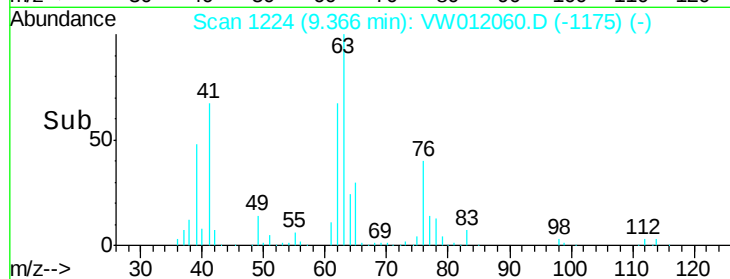
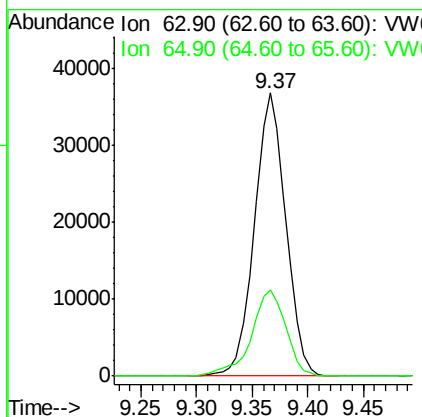
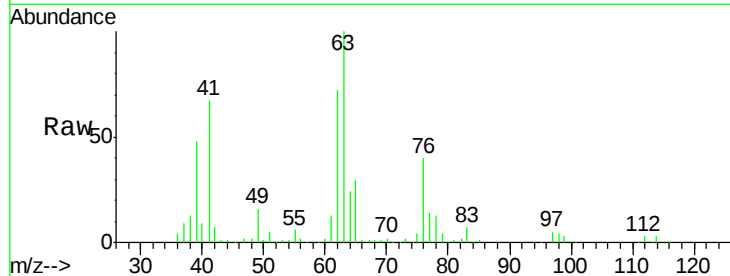




#45
 1,2-Dichloropropane
 Concen: 19.770 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

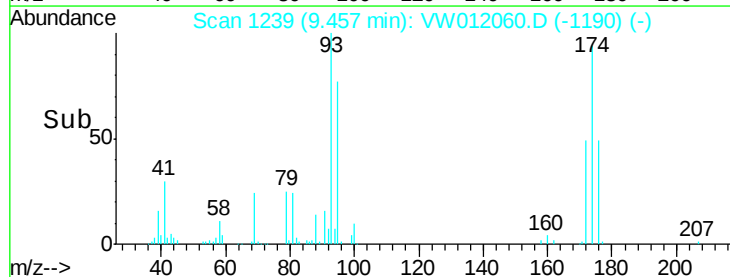
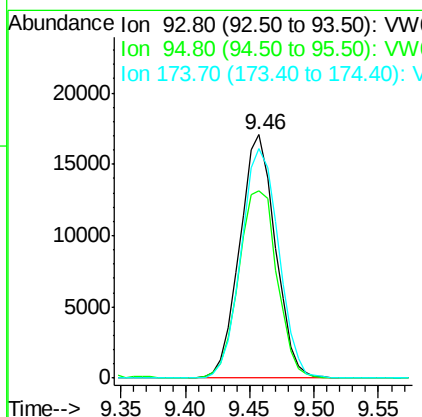
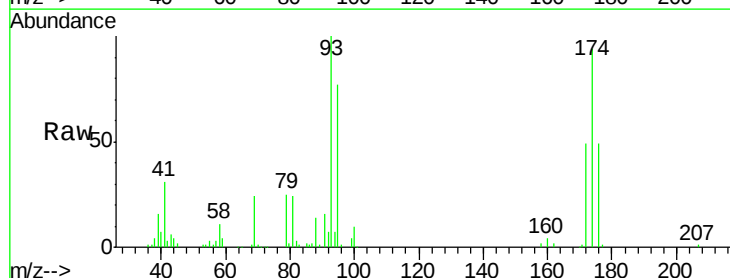
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

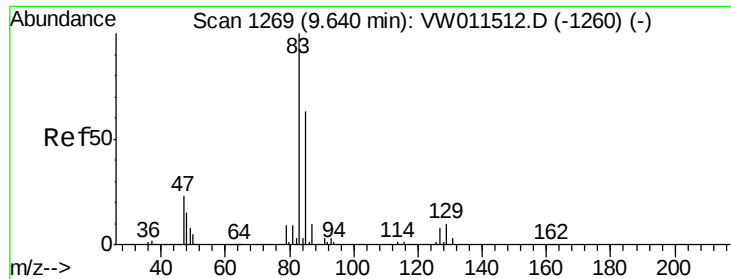
Tot Ion: 63 Resp: 72328
 Ion Ratio Lower Upper
 63 100
 65 30.4 24.2 36.4



#46
 Dibromomethane
 Concen: 19.645 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 93 Resp: 32803
 Ion Ratio Lower Upper
 93 100
 95 82.7 66.2 99.2
 174 98.8 78.2 117.4

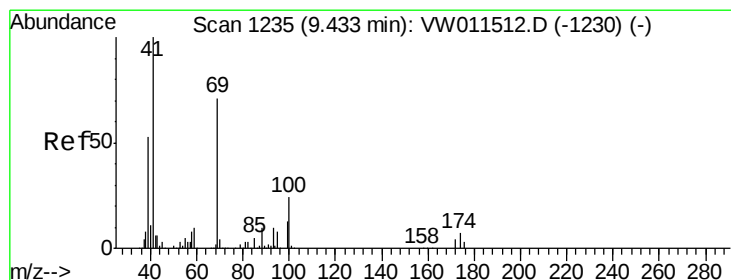
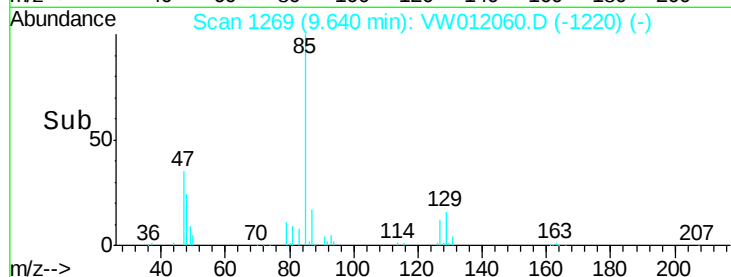
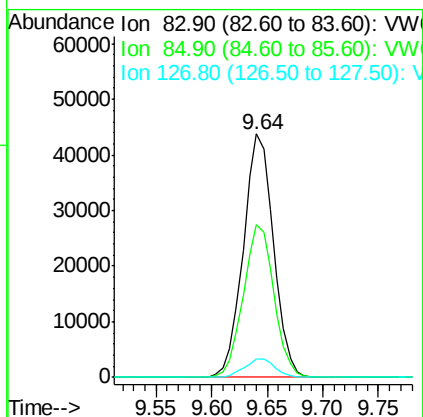
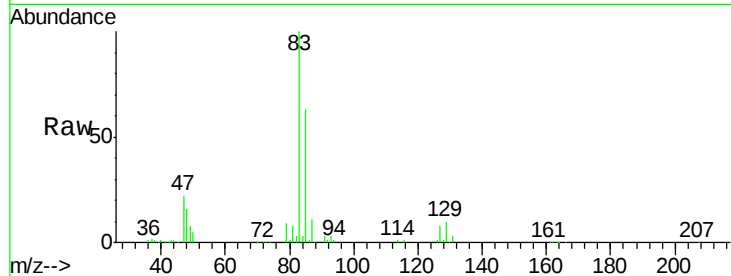




#47
 Bromodichloromethane
 Concen: 18.845 ug/l
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

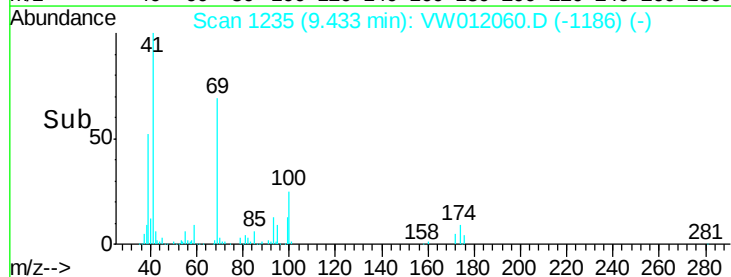
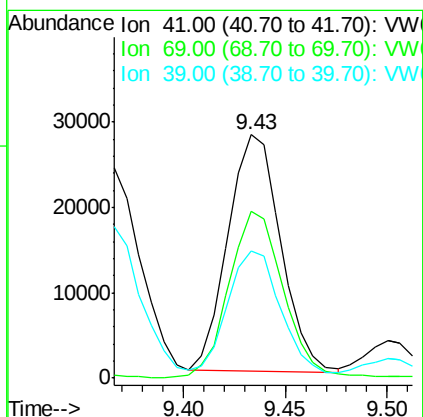
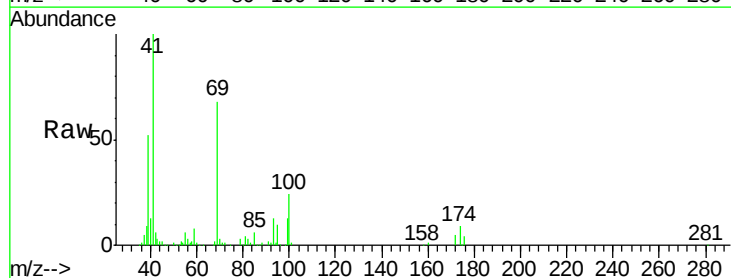
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

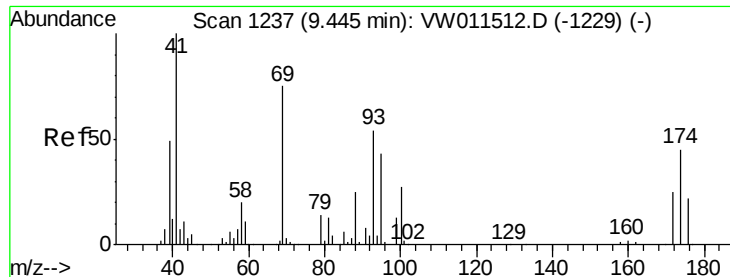
Tot Ion: 83 Resp: 82542
 Ion Ratio Lower Upper
 83 100
 85 62.9 50.5 75.7
 127 7.5 6.4 9.6



#48
 Methyl methacrylate
 Concen: 19.962 ug/l
 RT: 9.43 min Scan# 1235
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 41 Resp: 49525
 Ion Ratio Lower Upper
 41 100
 69 72.9 57.1 85.7
 39 55.6 45.4 68.2





#49

1,4-Dioxane

Concen: 377.258 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. 0.03 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampled :

VW0821SBS01

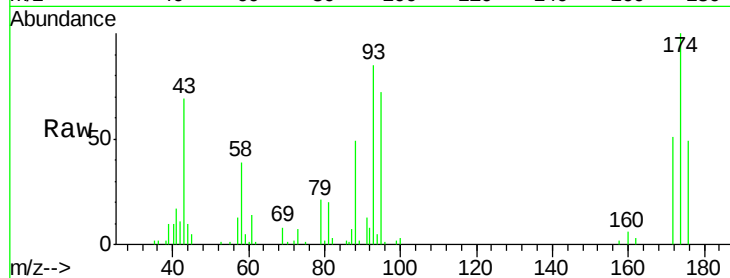
Tot Ion: 88 Resp: 9121

Ion Ratio Lower Upper

88 100

43 0.0 34.0 51.0#

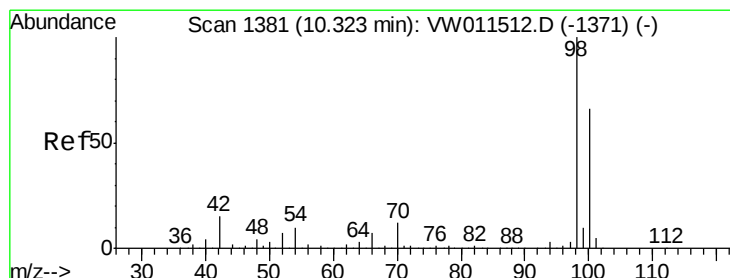
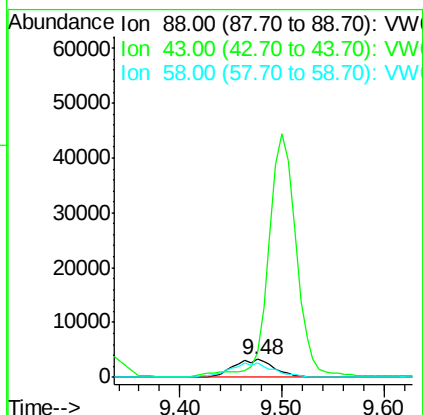
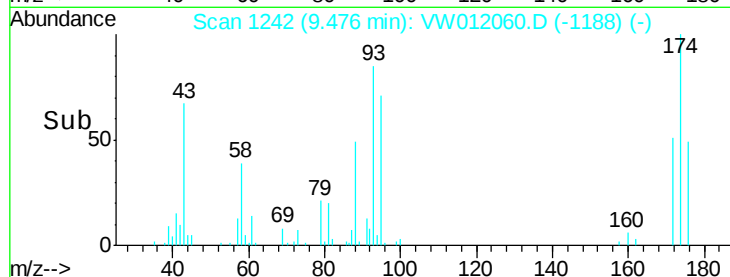
58 86.8 69.7 104.5



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: 49.105 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012060.D

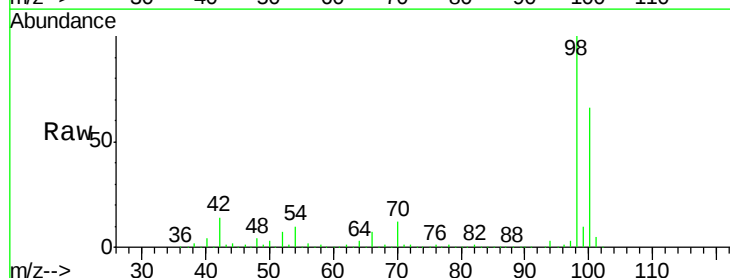
Acq: 21 Aug 2019 10:07

Tgt Ion: 98 Resp: 529497

Ion Ratio Lower Upper

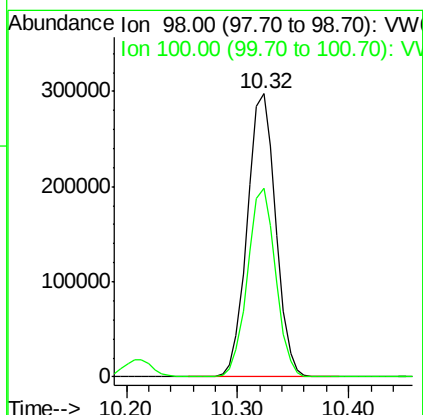
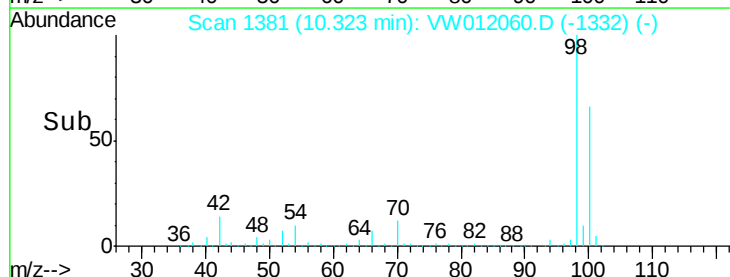
98 100

100 65.6 52.7 79.1



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: 100.588 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampled :

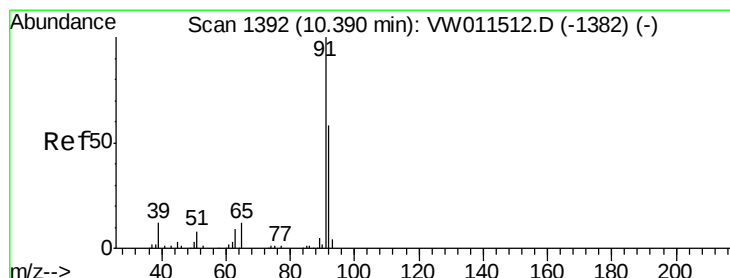
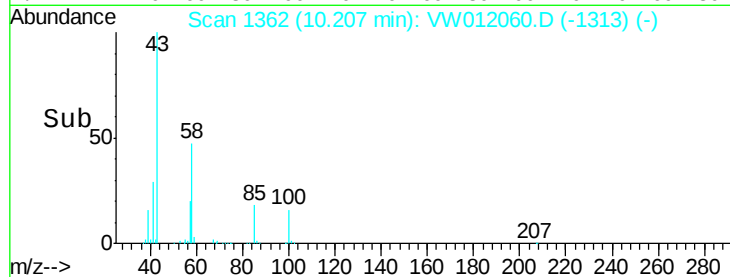
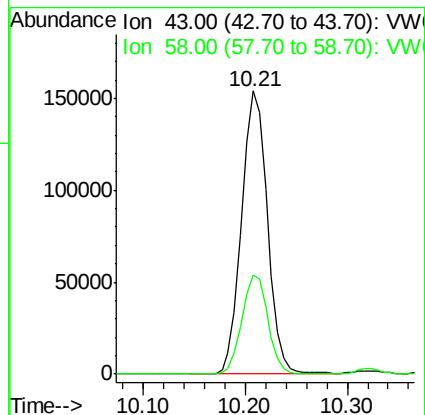
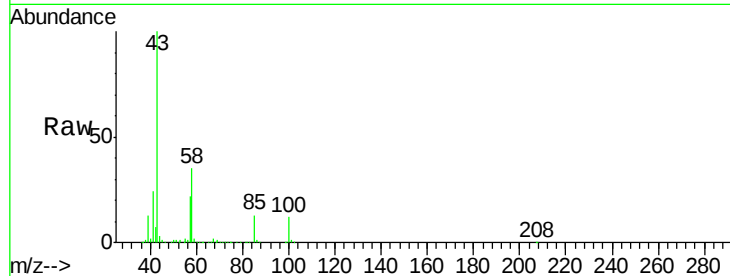
VW0821SBS01

Tot Ion: 43 Resp: 270225

Ion Ratio Lower Upper

43 100

58 35.3 28.2 42.2



#52

Toluene

Concen: 20.055 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012060.D

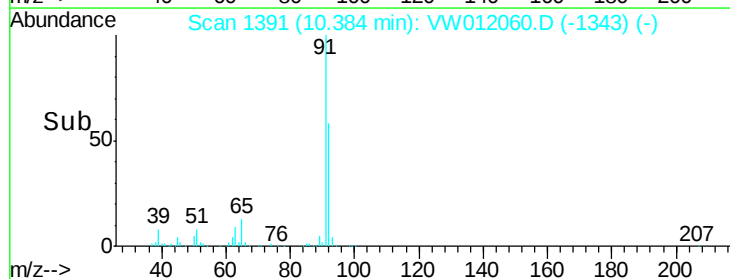
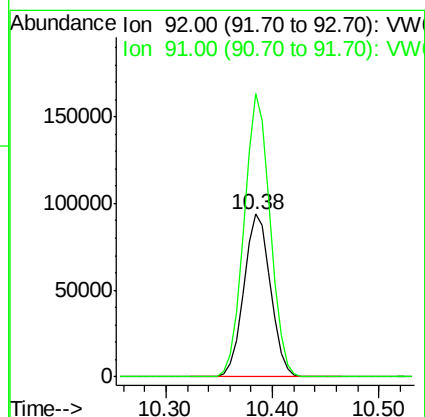
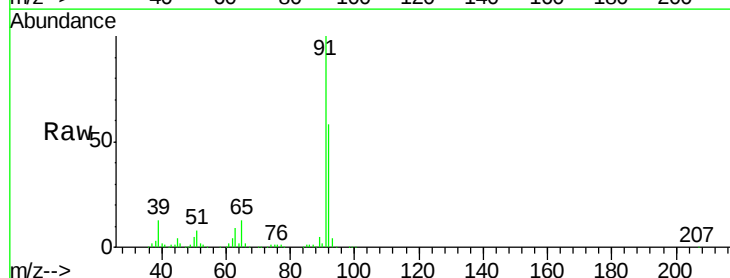
Acq: 21 Aug 2019 10:07

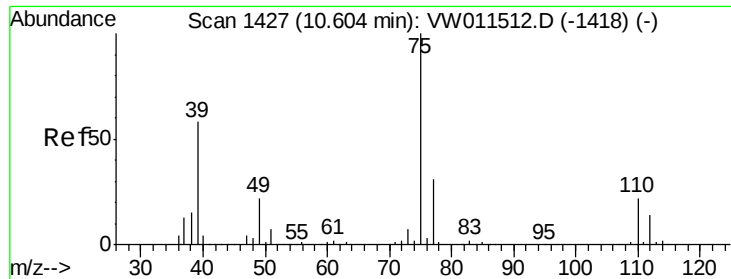
Tgt Ion: 92 Resp: 165590

Ion Ratio Lower Upper

92 100

91 169.5 136.7 205.1





#53

t-1,3-Dichloropropene

Concen: 19.019 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampled :

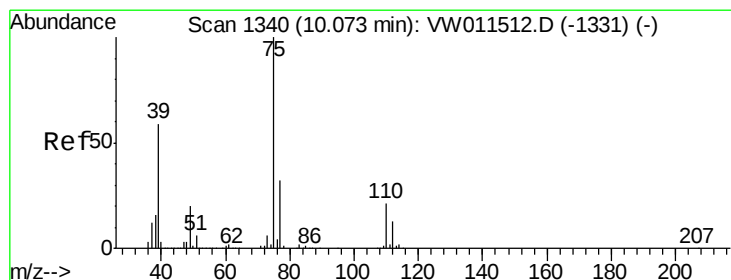
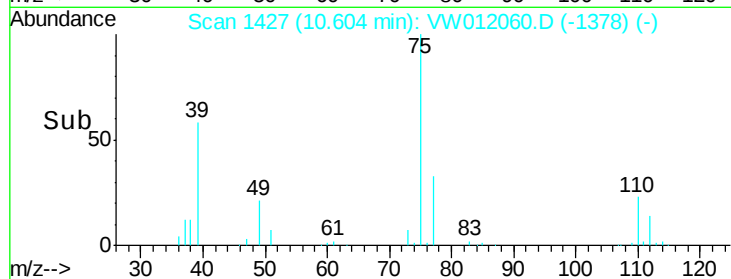
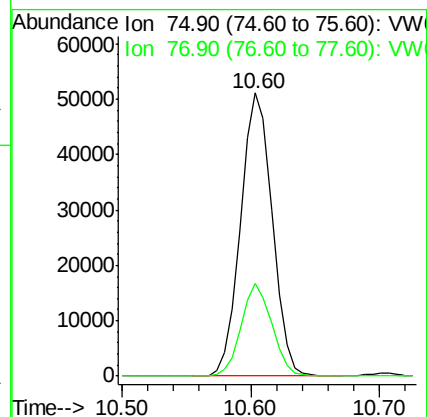
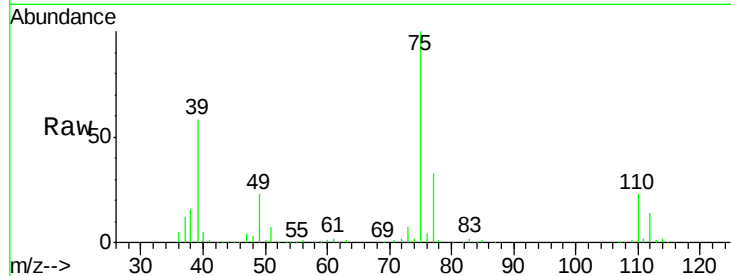
VW0821SBS01

Tot Ion: 75 Resp: 87021

Ion Ratio Lower Upper

75 100

77 32.7 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 19.444 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

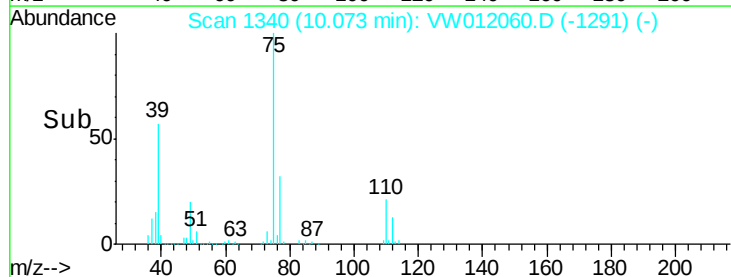
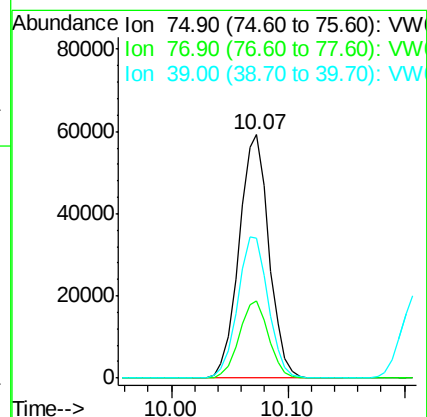
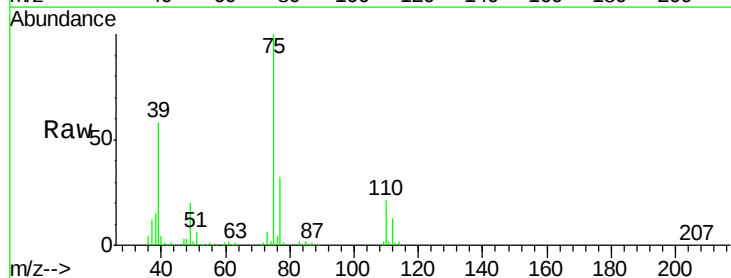
Tgt Ion: 75 Resp: 105779

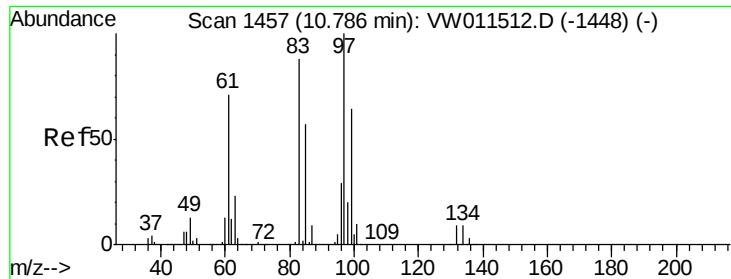
Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4

39 57.4 47.0 70.4

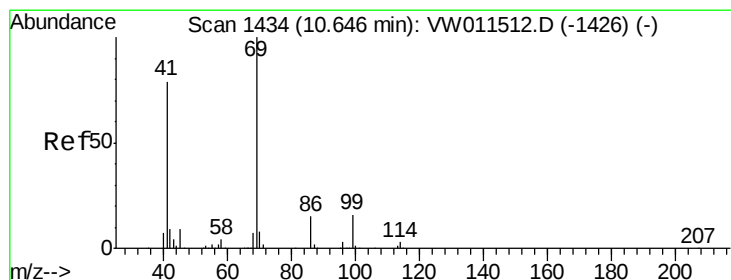
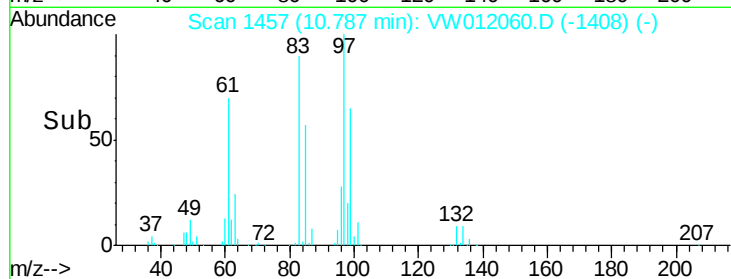
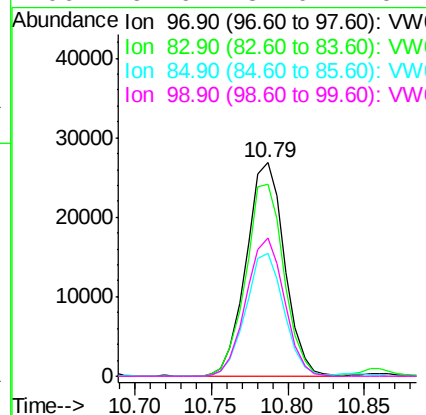
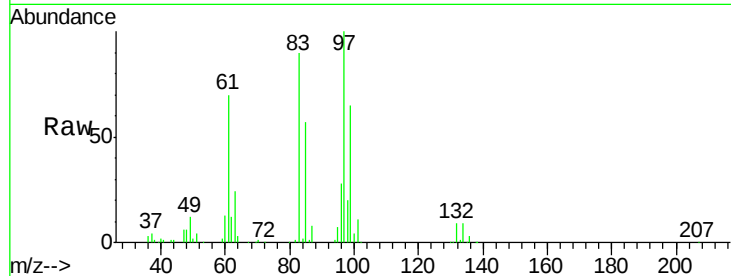




#55
 1,1,2-Trichloroethane
 Concen: 19.840 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

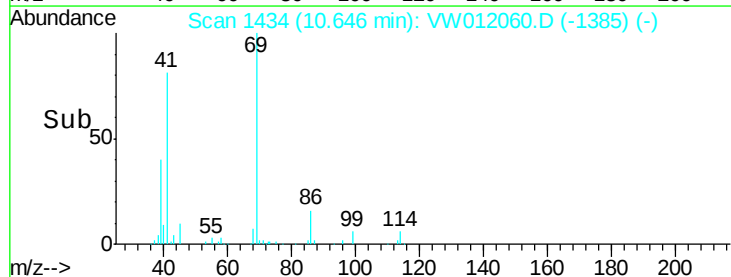
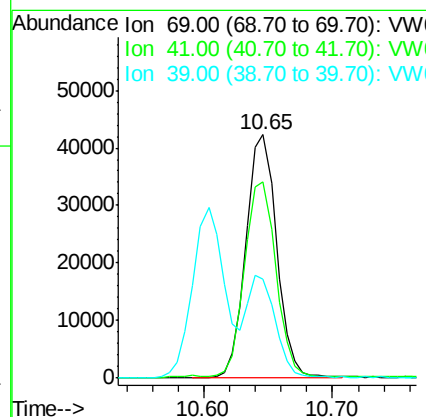
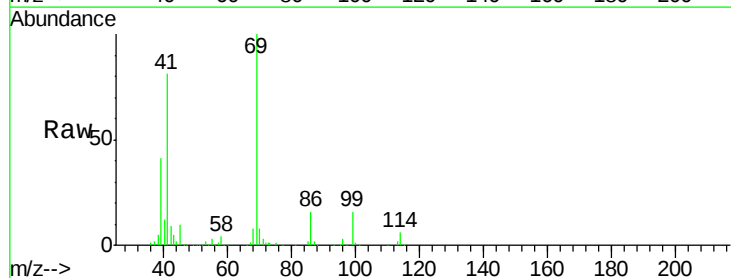
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

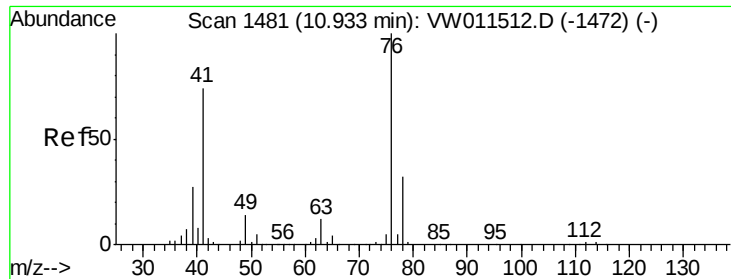
Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		47005		
83	89.9	70.5		105.7	
85	57.5	45.8		68.6	
99	64.9	51.0		76.4	



#56
 Ethyl methacrylate
 Concen: 20.191 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		69997		
41	81.9	66.6		99.8	
39	37.4	30.3		45.5	

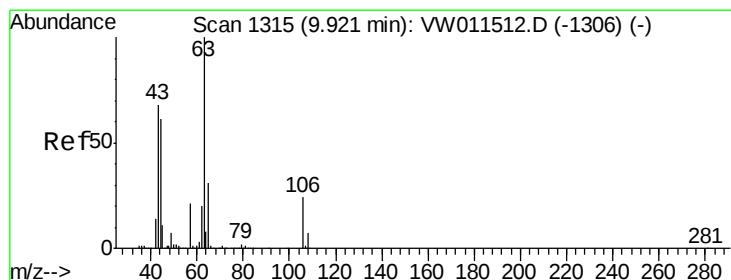
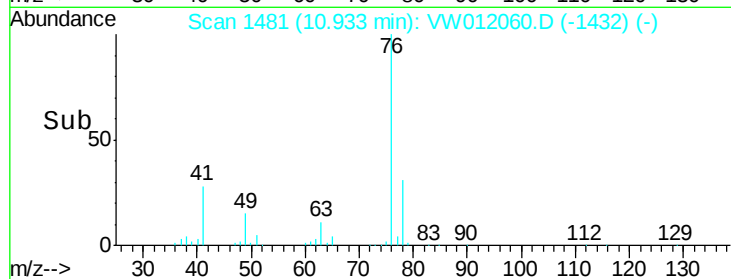
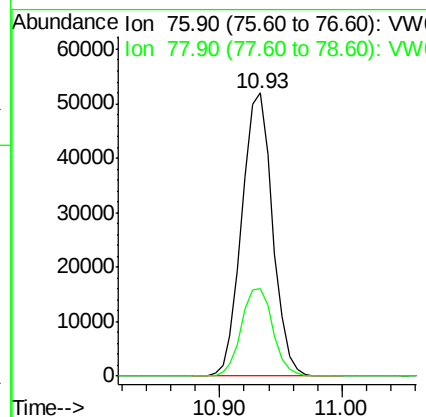
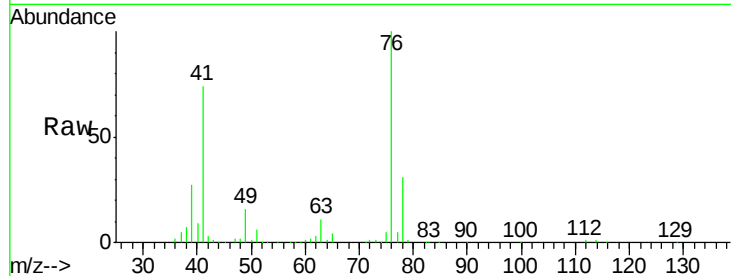




#57
 1,3-Dichloropropane
 Concen: 20.164 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

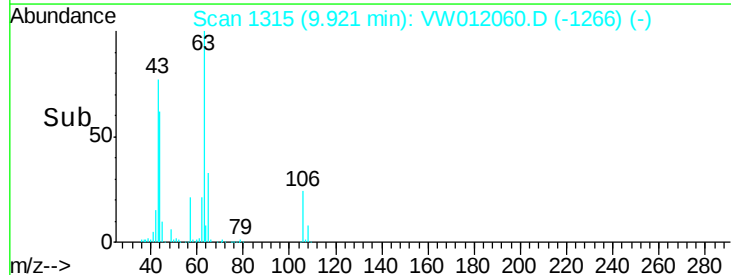
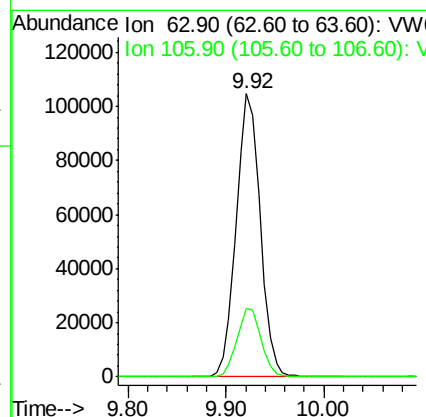
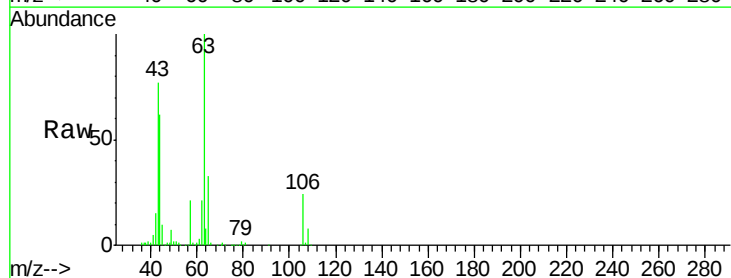
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

Tot Ion: 76 Resp: 90379
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.2 37.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 113.629 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 63 Resp: 178860
 Ion Ratio Lower Upper
 63 100
 106 24.3 19.7 29.5

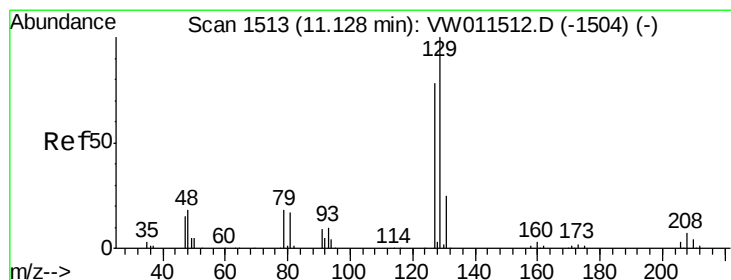
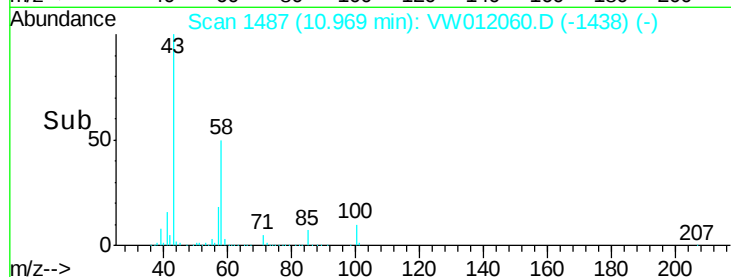
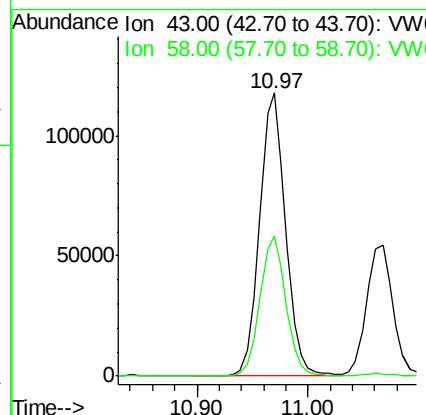
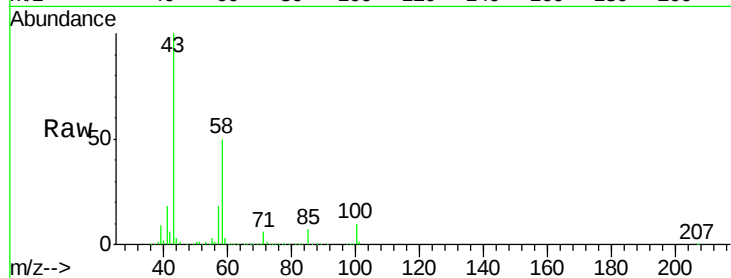




#59
2-Hexanone
Concen: 101.111 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

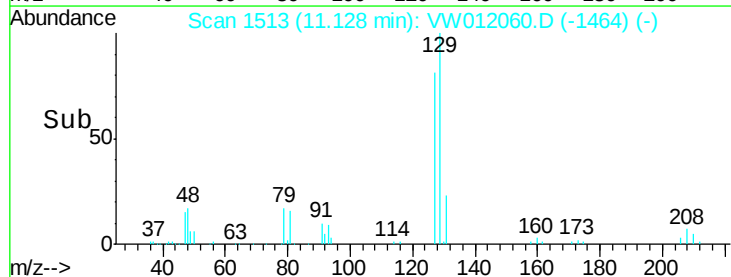
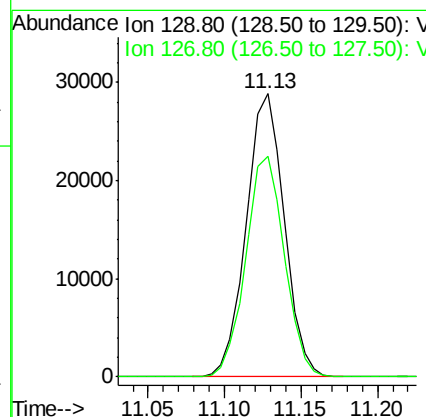
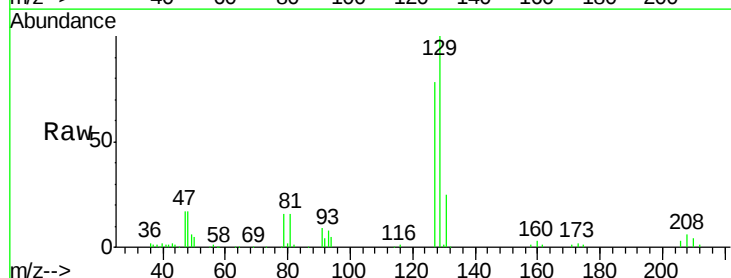
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

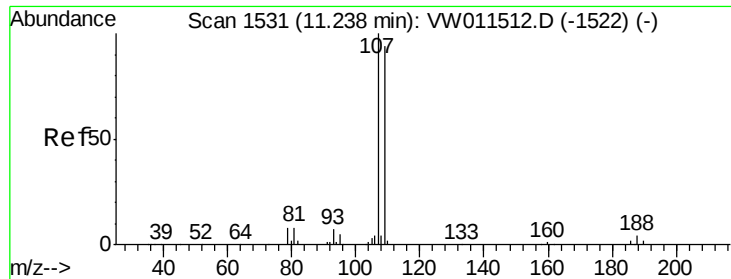
Tot Ion: 43 Resp: 191789
Ion Ratio Lower Upper
43 100
58 49.3 24.3 72.9



#60
Dibromochloromethane
Concen: 18.966 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion: 129 Resp: 49878
Ion Ratio Lower Upper
129 100
127 79.4 38.9 116.7

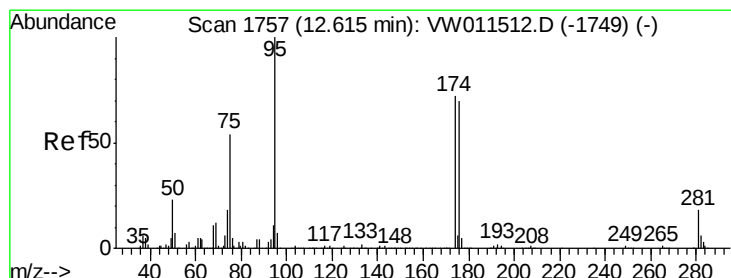
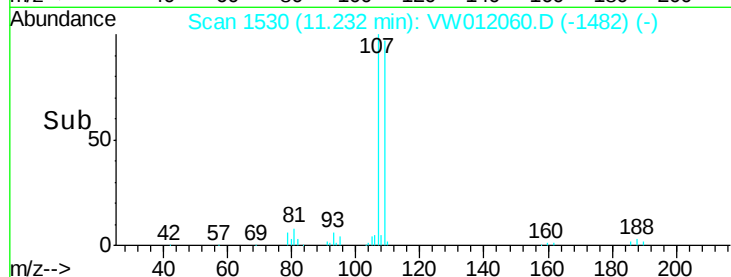
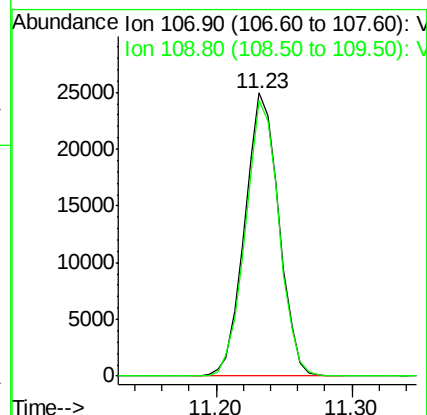
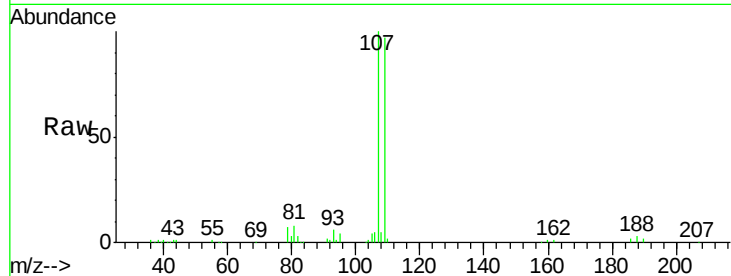




#61
 1,2-Dibromoethane
 Concen: 19.483 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

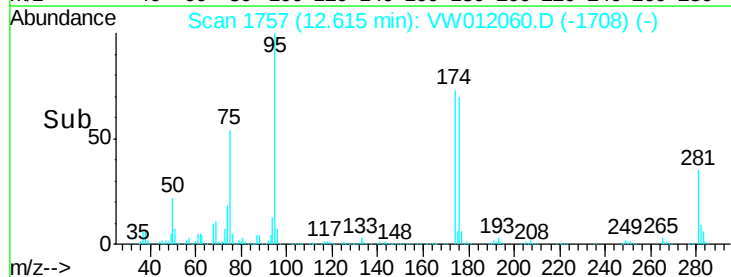
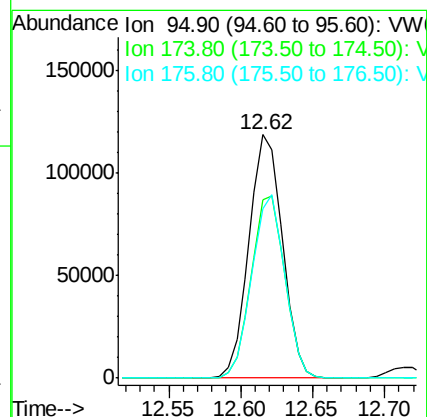
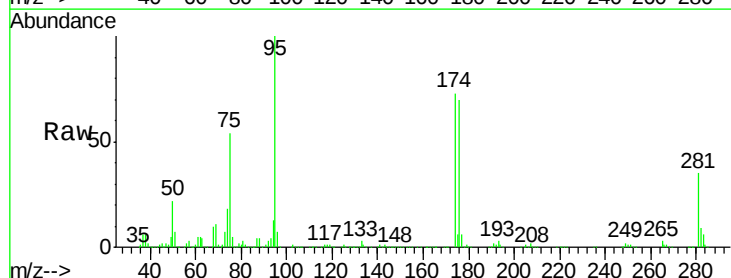
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

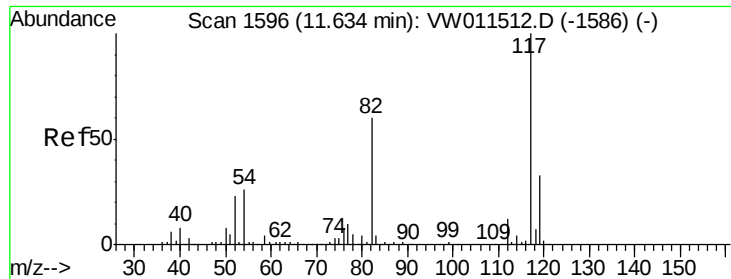
Tot Ion:107 Resp: 43682
 Ion Ratio Lower Upper
 107 100
 109 96.2 75.0 112.6



#62
 4-Bromofluorobenzene
 Concen: 49.526 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion: 95 Resp: 190395
 Ion Ratio Lower Upper
 95 100
 174 75.4 0.0 150.2
 176 74.2 0.0 144.4

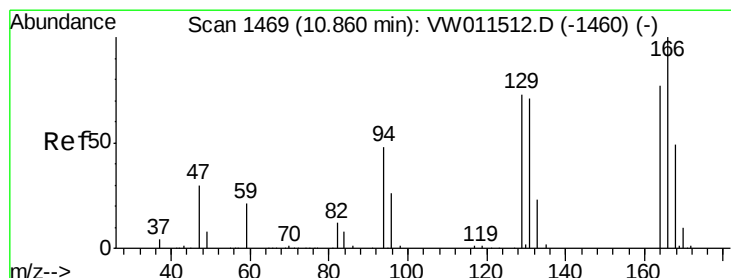
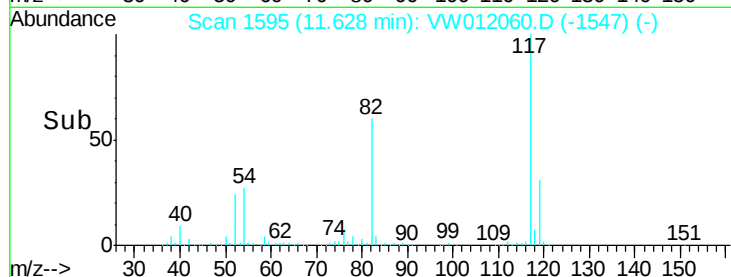
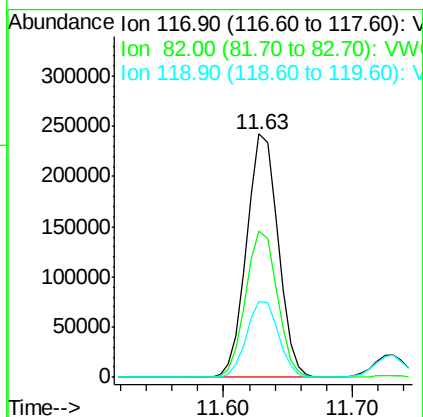
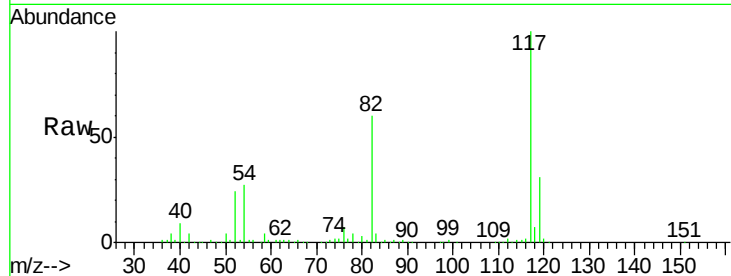




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

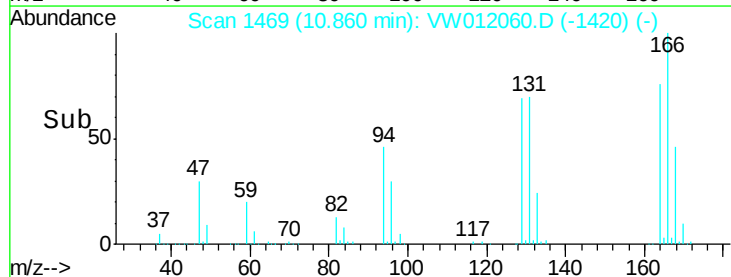
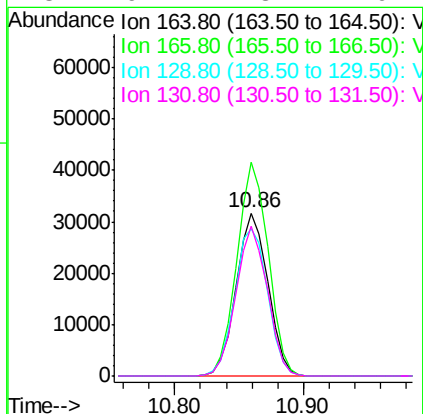
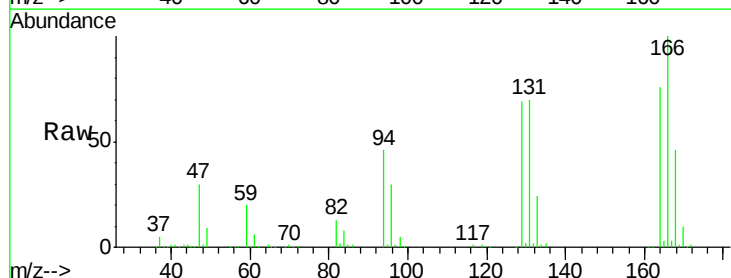
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

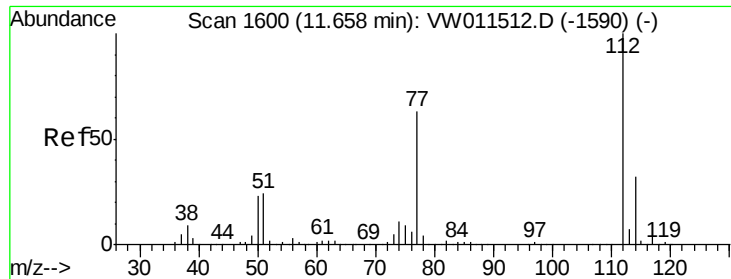
Tot Ion:117 Resp: 408600
Ion Ratio Lower Upper
117 100
82 60.1 47.9 71.9
119 31.3 26.2 39.2



#64
Tetrachloroethene
Concen: 20.290 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion:164 Resp: 53981
Ion Ratio Lower Upper
164 100
166 131.0 103.5 155.3
129 90.4 75.2 112.8
131 92.2 73.4 110.2

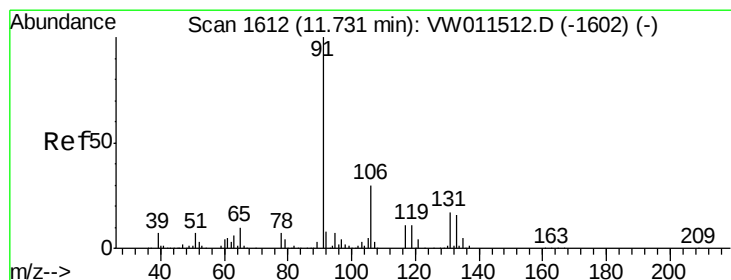
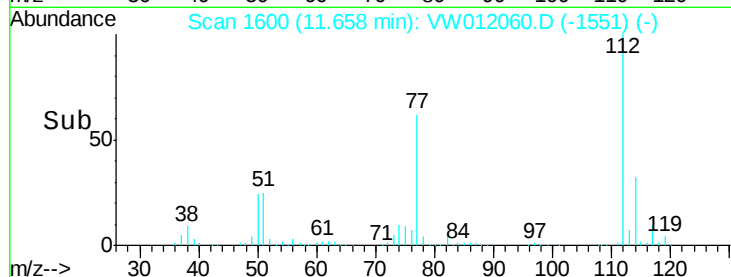
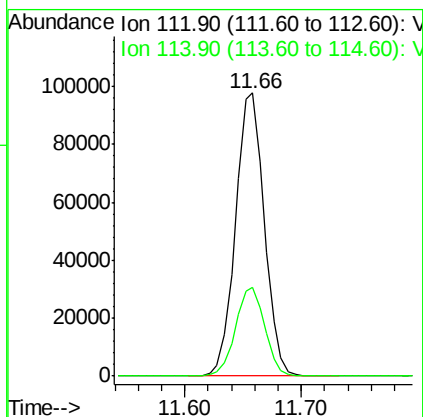
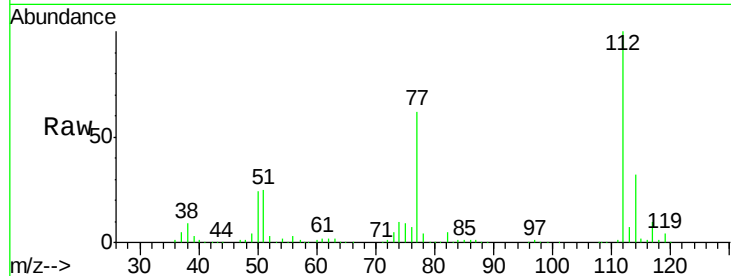




#65
Chlorobenzene
Concen: 20.479 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

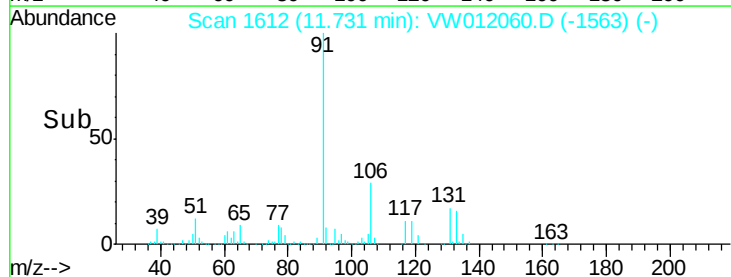
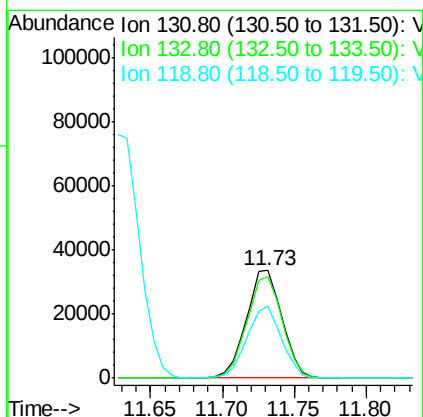
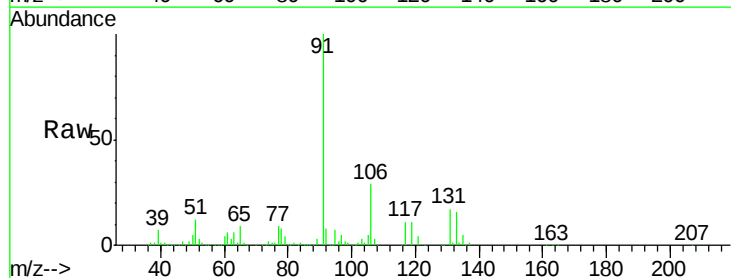
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

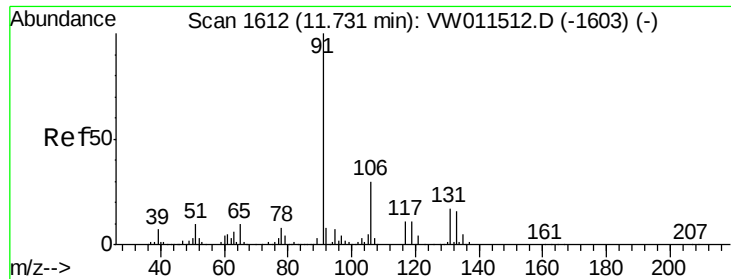
Tot Ion:112 Resp: 168231
Ion Ratio Lower Upper
112 100
114 31.6 25.6 38.4



#66
1,1,1,2-Tetrachloroethane
Concen: 20.030 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion:131 Resp: 57314
Ion Ratio Lower Upper
131 100
133 94.4 47.4 142.2
119 65.1 32.3 96.9

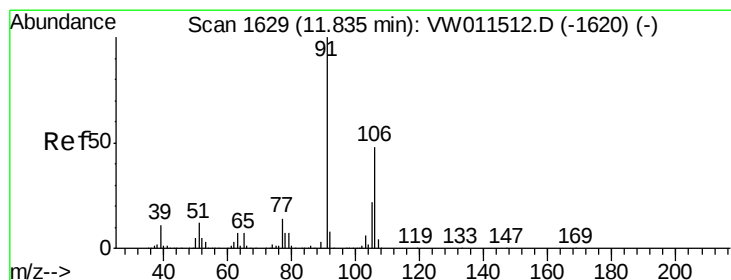
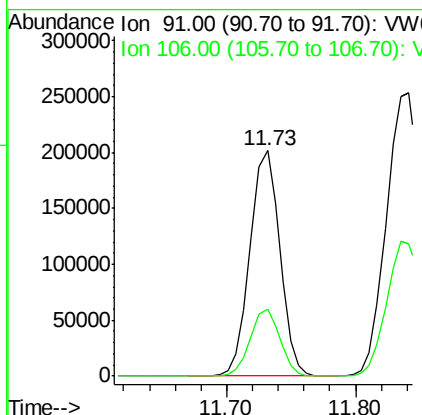
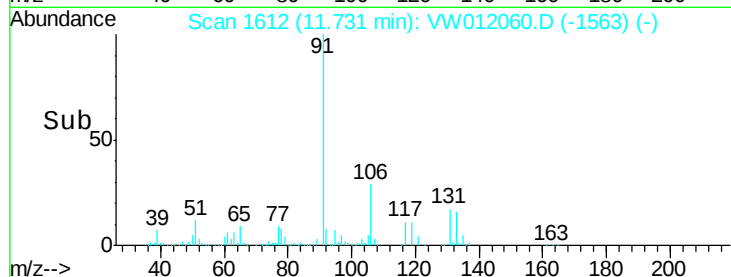
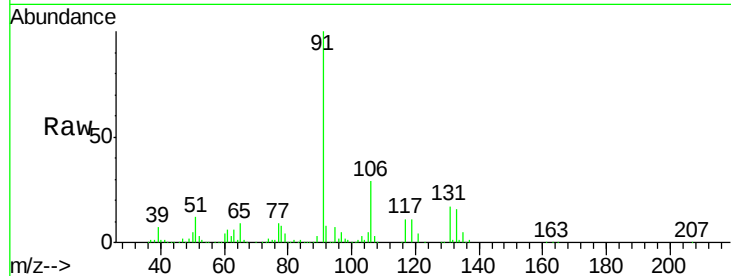




#67
Ethyl Benzene
Concen: 20.604 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

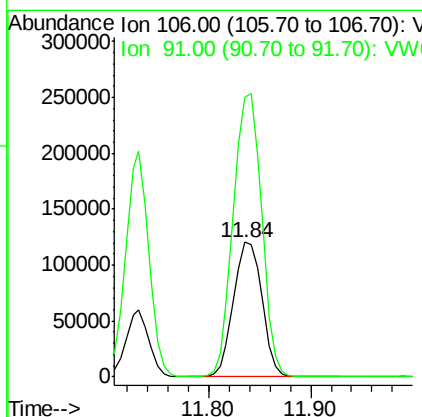
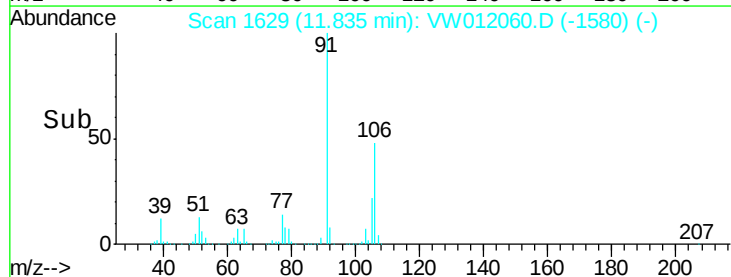
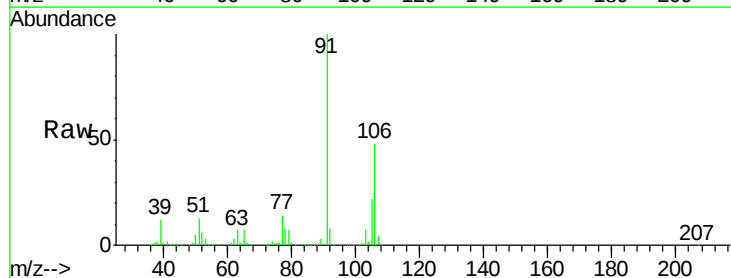
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

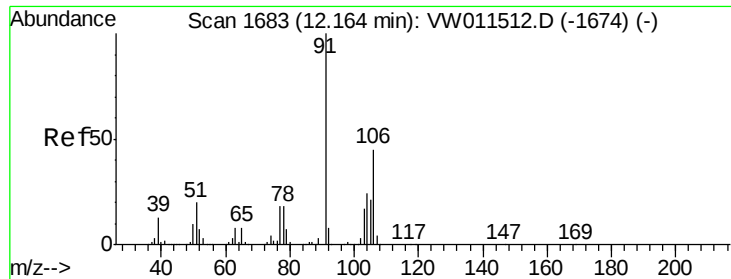
Tot Ion: 91 Resp: 322365
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.6



#68
m/p-Xylenes
Concen: 40.832 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion: 106 Resp: 232327
Ion Ratio Lower Upper
106 100
91 209.9 168.2 252.2

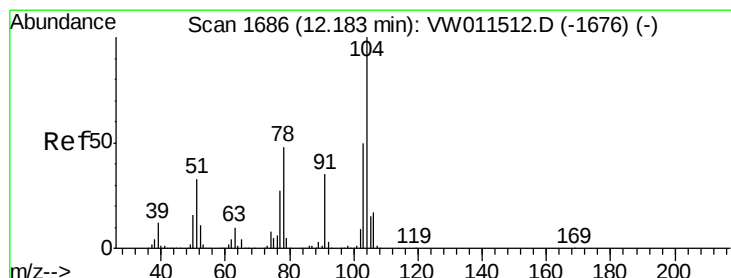
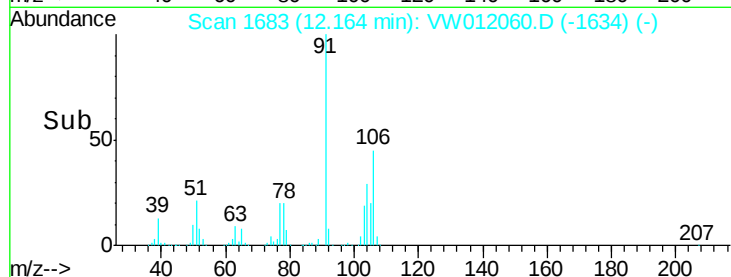
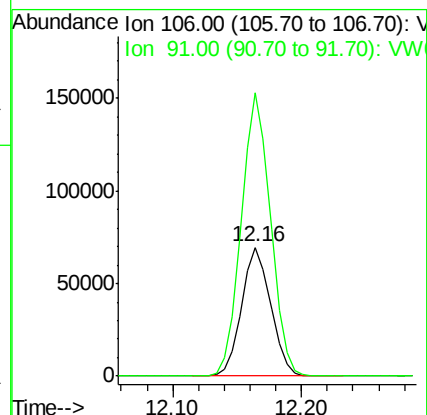
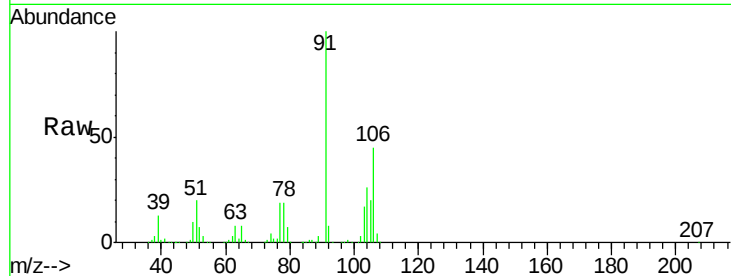




#69
o-Xylene
Concen: 20.549 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

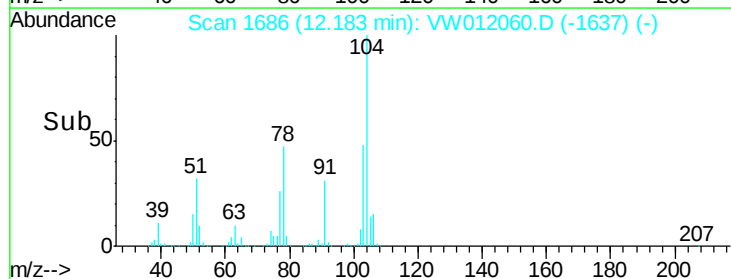
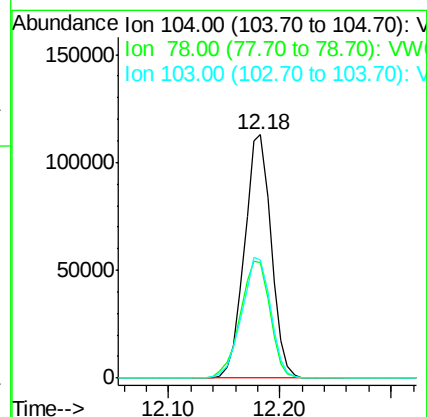
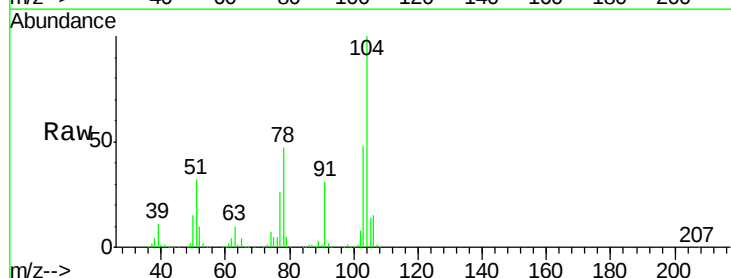
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

Tot Ion:106 Resp: 108646
Ion Ratio Lower Upper
106 100
91 220.9 110.5 331.5



#70
Styrene
Concen: 20.545 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion:104 Resp: 187813
Ion Ratio Lower Upper
104 100
78 53.2 43.4 65.0
103 53.5 43.9 65.9





#71

Bromoform

Concen: 19.159 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

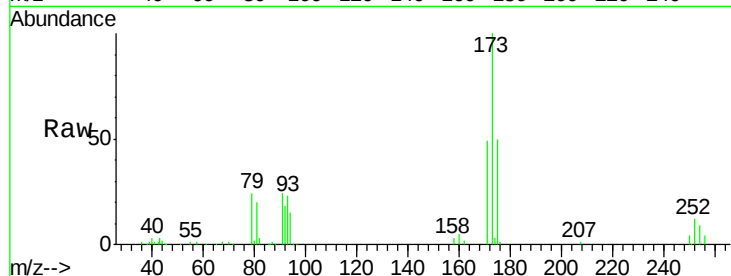
Tot Ion:173 Resp: 27951

Ion Ratio Lower Upper

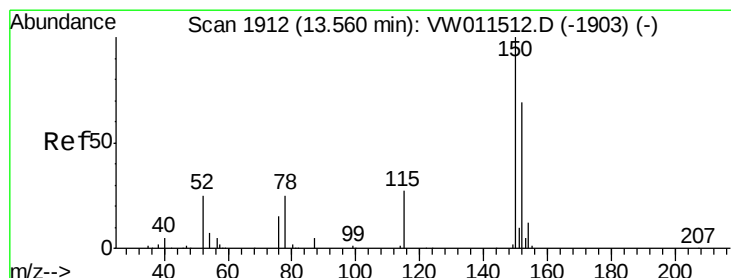
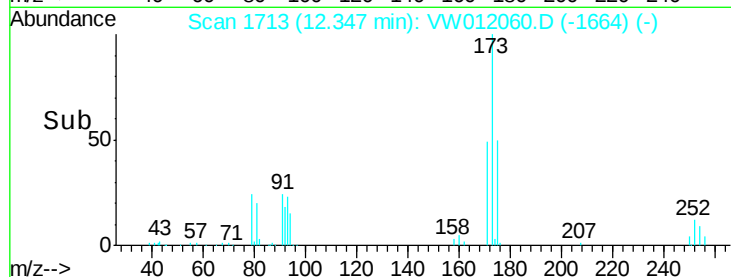
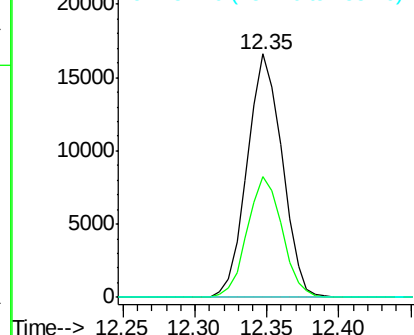
173 100

175 49.3 23.6 71.0

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

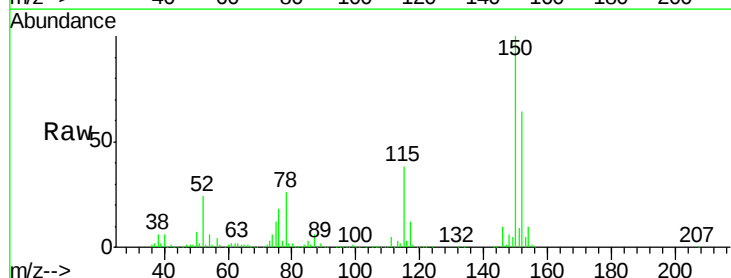
Tgt Ion:152 Resp: 199976

Ion Ratio Lower Upper

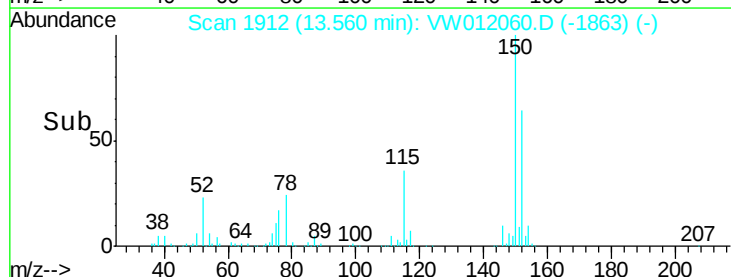
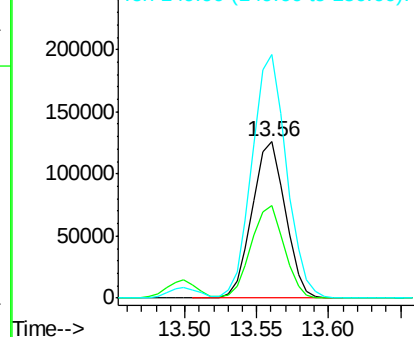
152 100

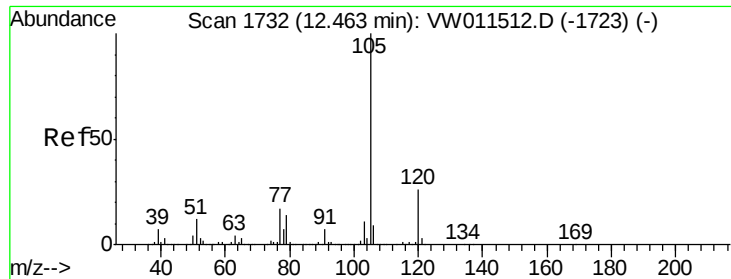
115 59.0 30.5 91.5

150 162.2 0.0 352.6



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





#73

Isopropylbenzene

Concen: 20.500 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

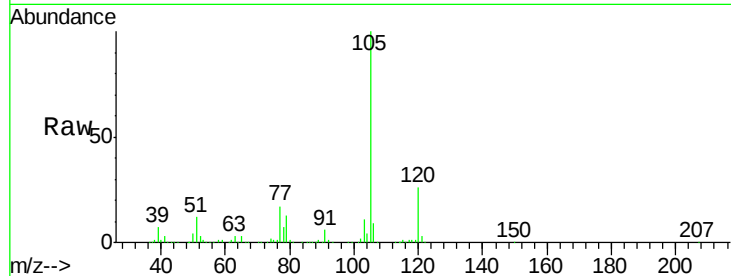
VW0821SBS01

Tot Ion:105 Resp: 305826

Ion Ratio Lower Upper

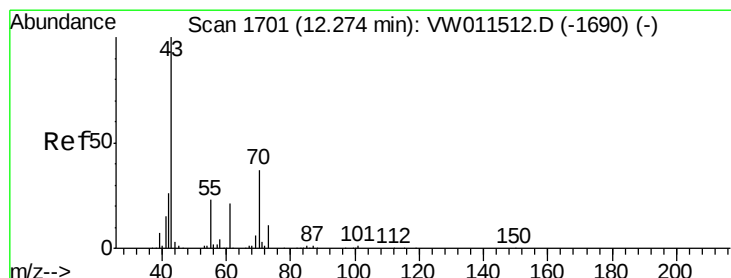
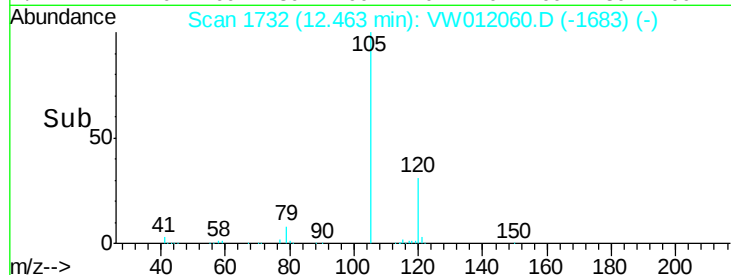
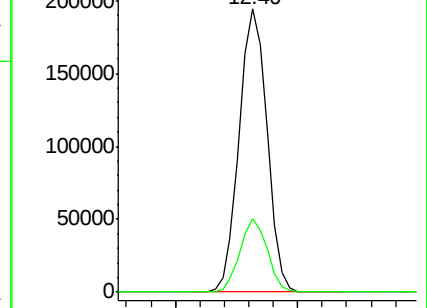
105 100

120 25.5 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.233 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Tgt Ion: 43 Resp: 94504

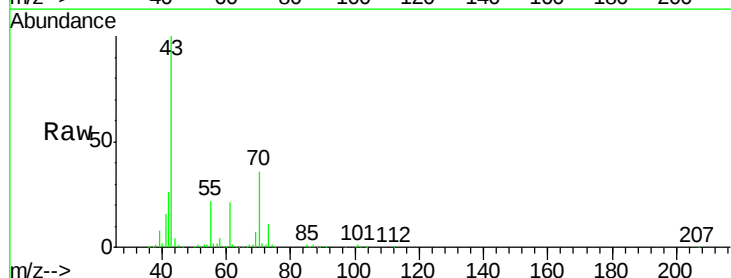
Ion Ratio Lower Upper

43 100

70 35.9 28.6 43.0

55 22.8 17.8 26.8

61 21.3 17.0 25.6

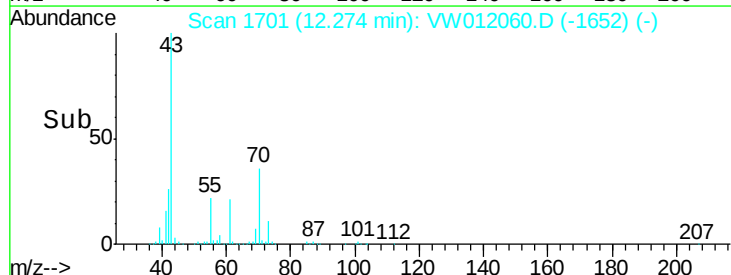
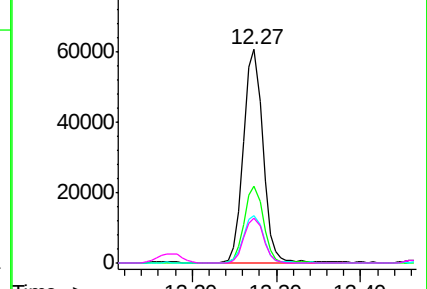


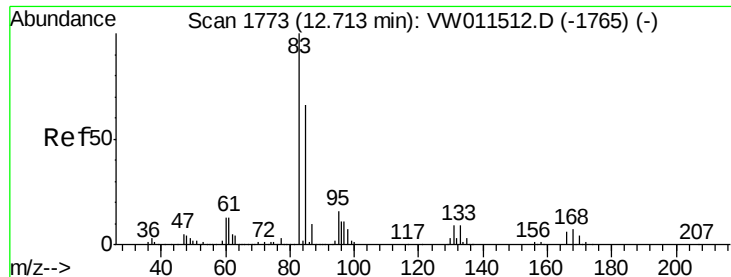
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 20.252 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

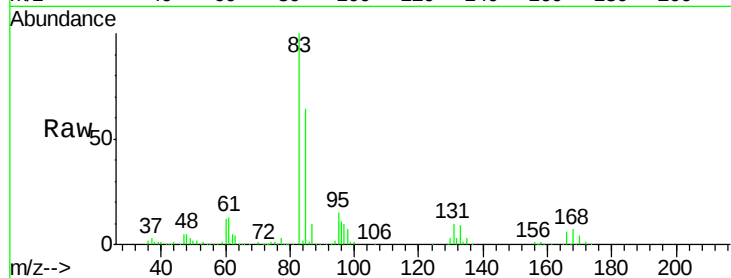
Tot Ion: 83 Resp: 56830

Ion Ratio Lower Upper

83 100

131 9.9 4.9 14.6

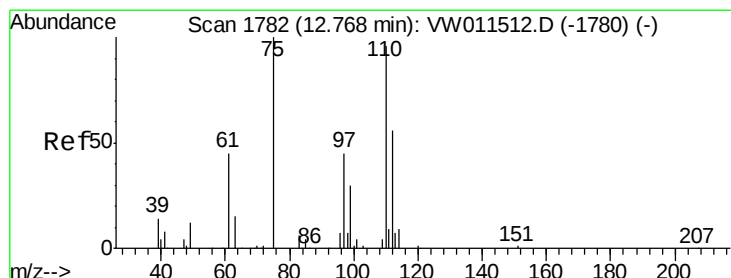
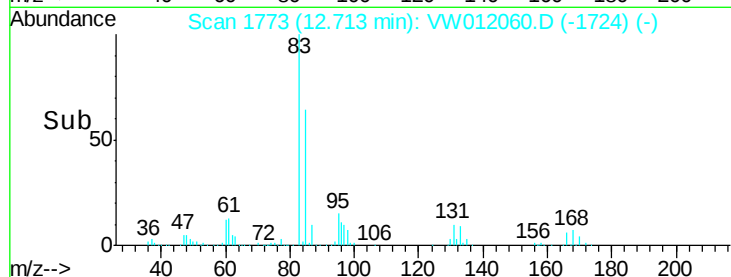
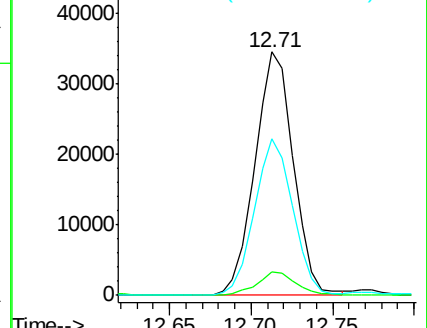
85 64.0 31.8 95.4



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 22.171 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW012060.D

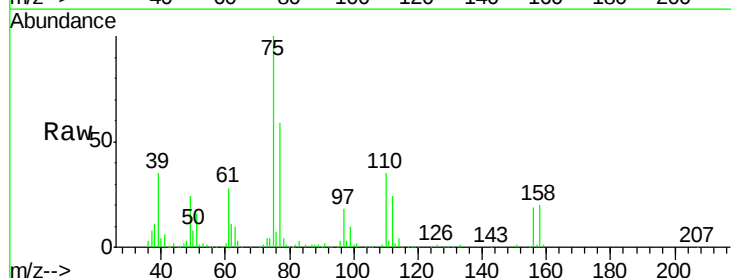
Acq: 21 Aug 2019 10:07

Tgt Ion: 75 Resp: 46914

Ion Ratio Lower Upper

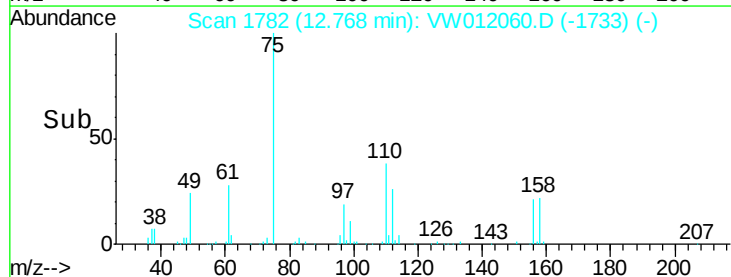
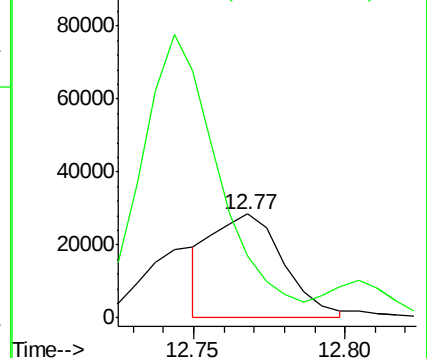
75 100

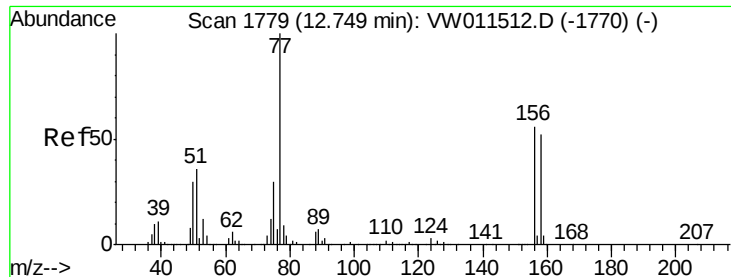
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 20.073 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

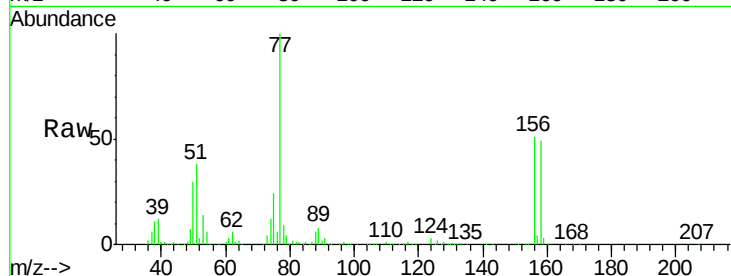
Tot Ion:156 Resp: 66192

Ion Ratio Lower Upper

156 100

77 210.4 106.5 319.4

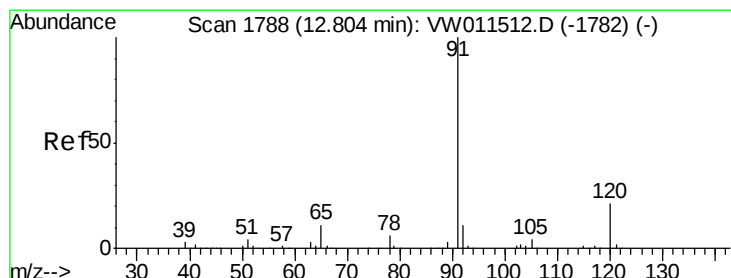
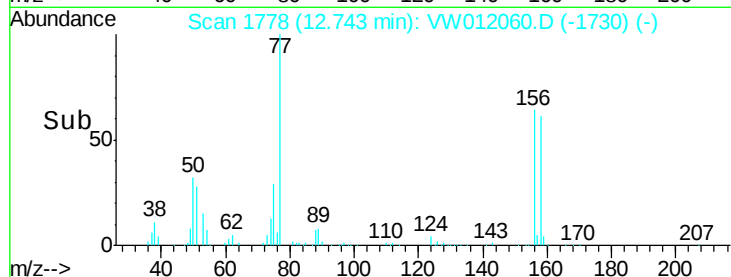
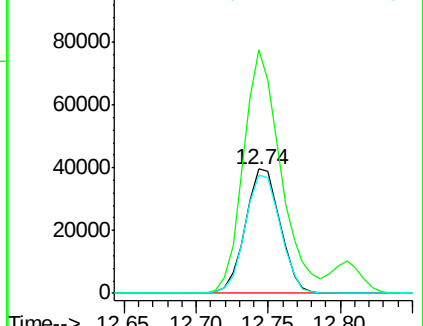
158 96.3 48.0 144.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.688 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW012060.D

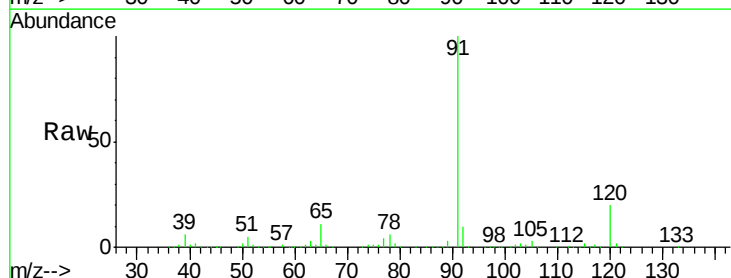
Acq: 21 Aug 2019 10:07

Tgt Ion: 91 Resp: 375613

Ion Ratio Lower Upper

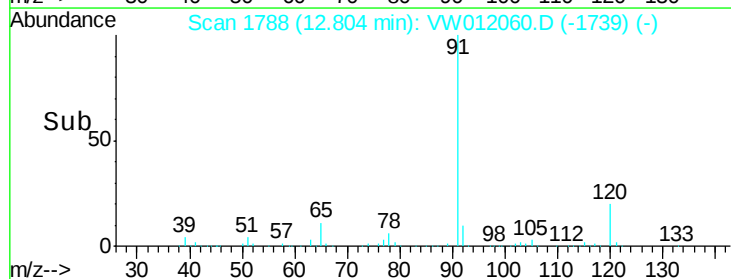
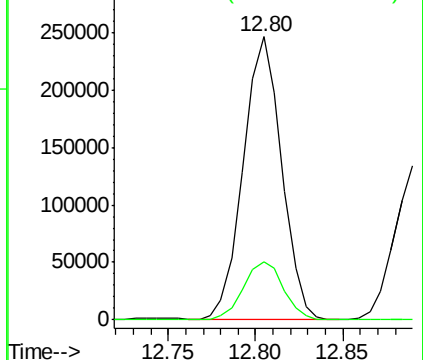
91 100

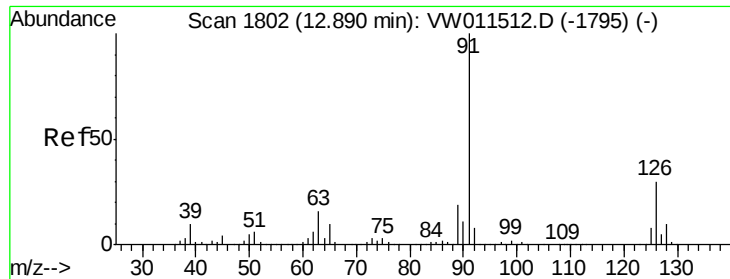
120 21.3 10.9 32.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.265 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

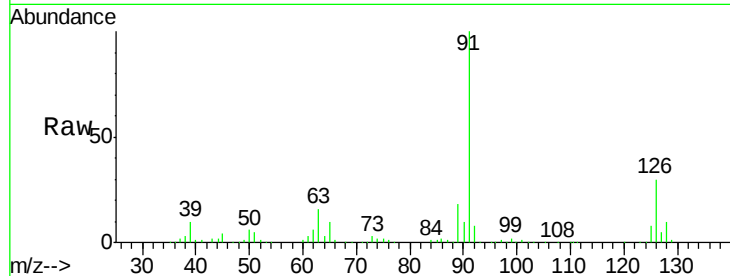
VW0821SBS01

Tot Ion: 91 Resp: 211971

Ion Ratio Lower Upper

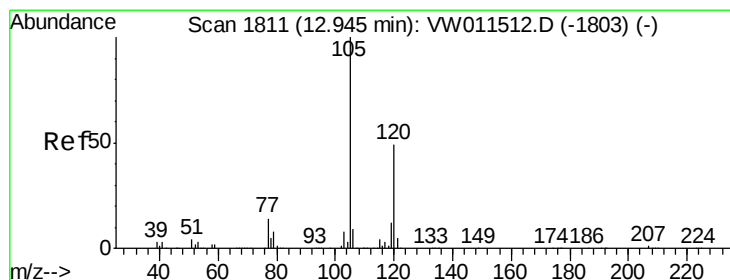
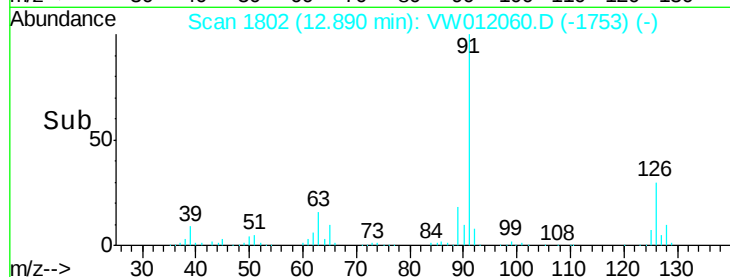
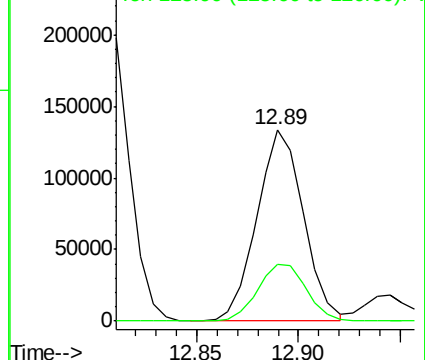
91 100

126 31.1 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.526 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW012060.D

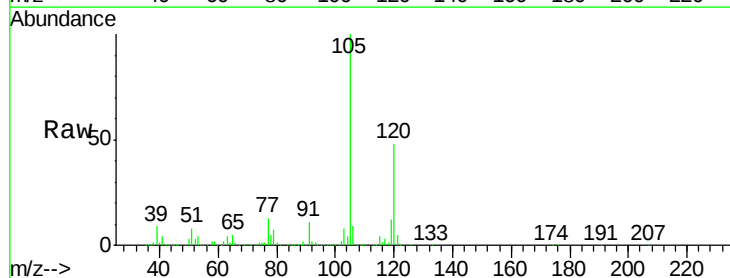
Acq: 21 Aug 2019 10:07

Tgt Ion:105 Resp: 256684

Ion Ratio Lower Upper

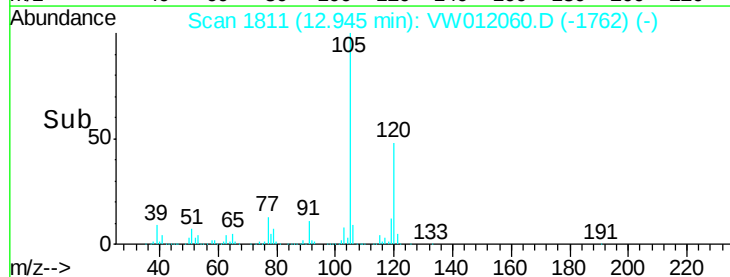
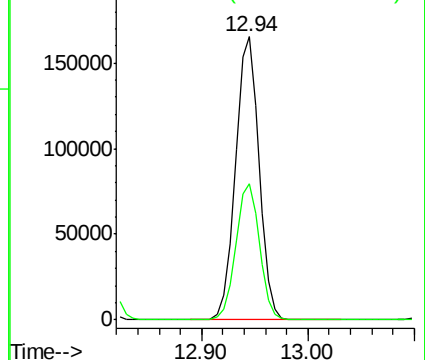
105 100

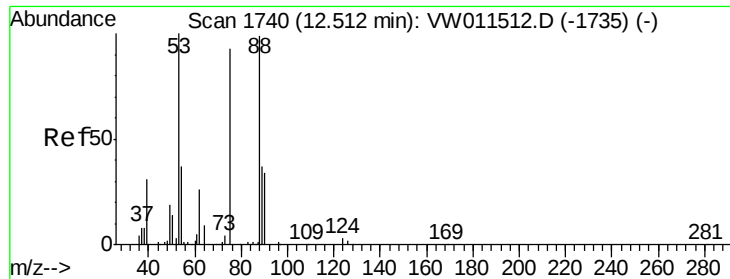
120 48.3 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.687 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

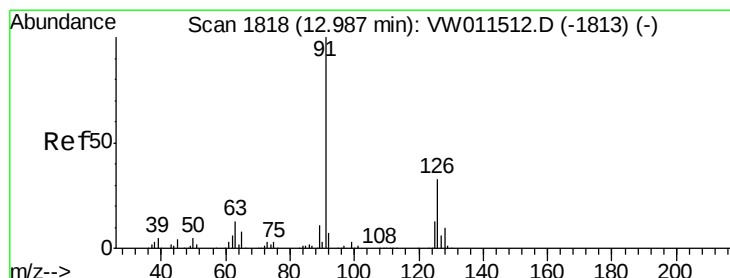
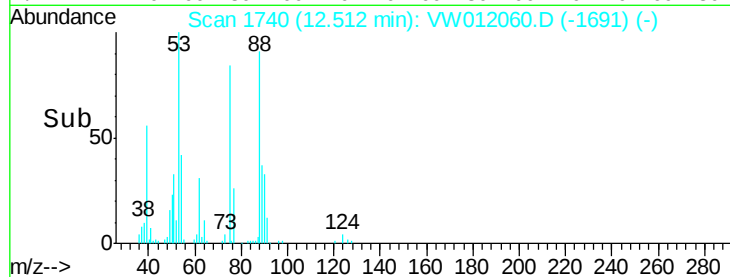
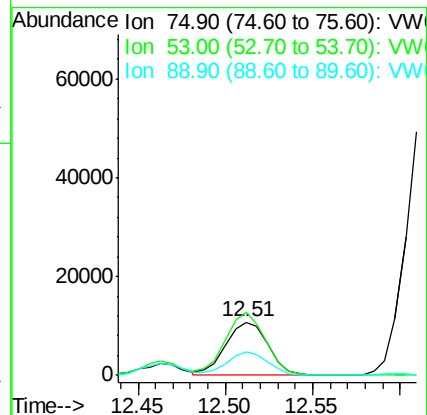
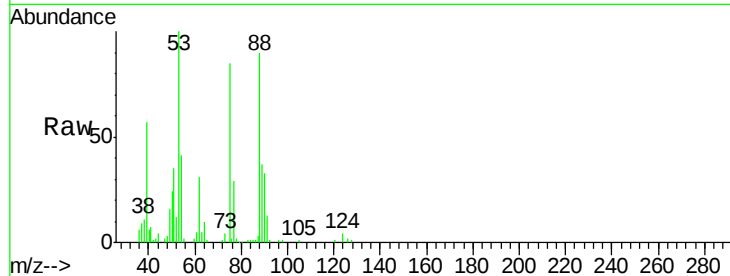
Tot Ion: 75 Resp: 18075

Ion Ratio Lower Upper

75 100

53 113.1 88.0 132.0

89 42.5 35.3 52.9



#82

4-Chlorotoluene

Concen: 20.027 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW012060.D

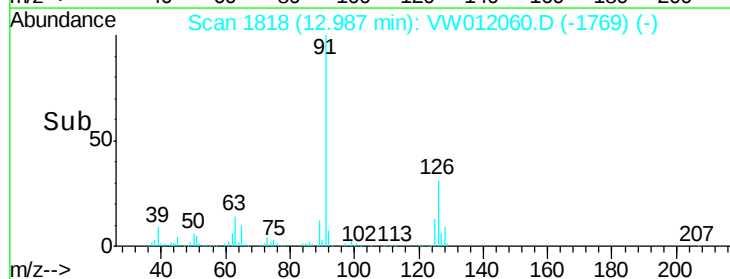
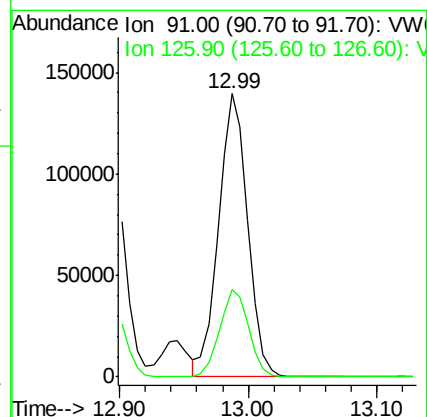
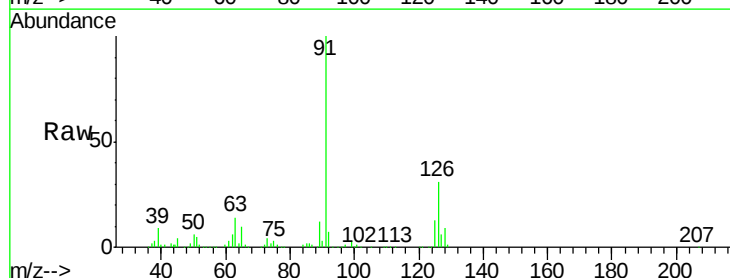
Acq: 21 Aug 2019 10:07

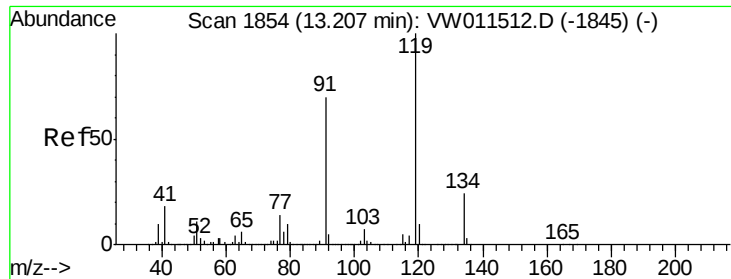
Tgt Ion: 91 Resp: 219783

Ion Ratio Lower Upper

91 100

126 31.0 15.6 46.8

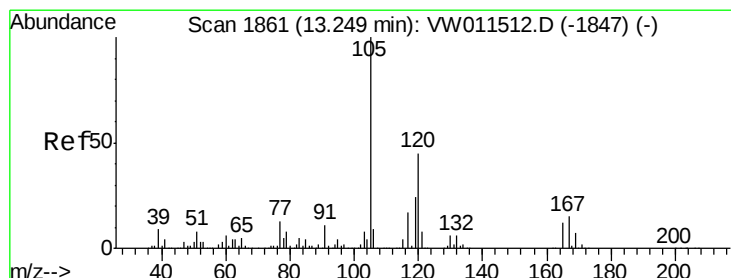
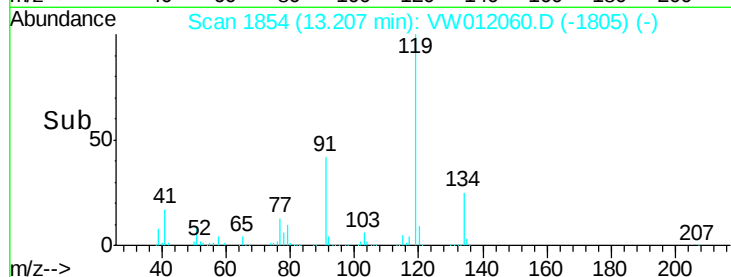
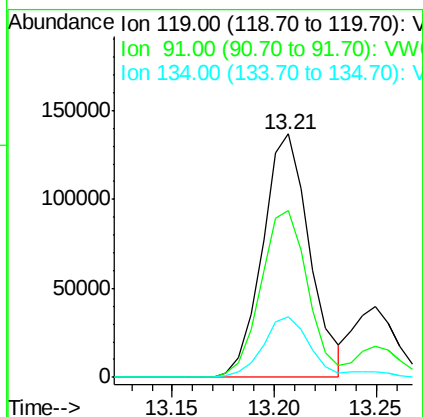
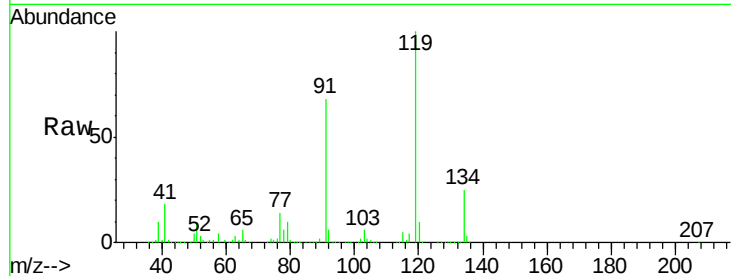




#83
 tert-Butylbenzene
 Concen: 21.005 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

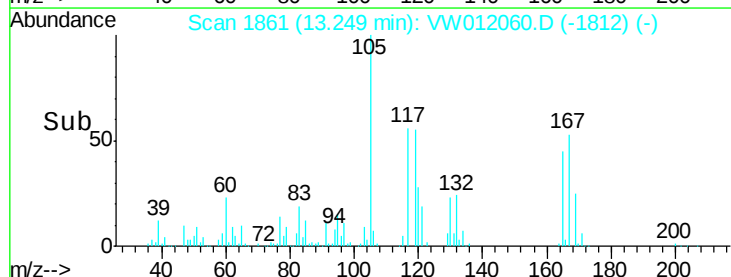
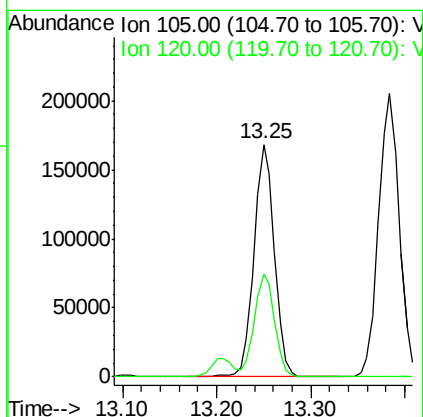
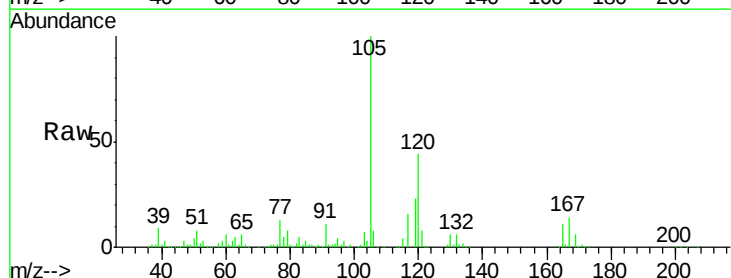
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

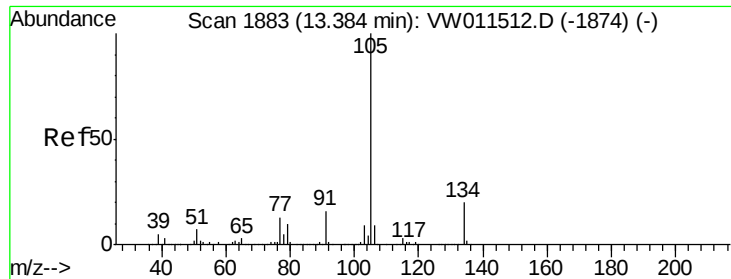
Tot Ion:119 Resp: 219661
 Ion Ratio Lower Upper
 119 100
 91 68.5 34.5 103.6
 134 24.9 12.4 37.4



#84
 1,2,4-Trimethylbenzene
 Concen: 20.480 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion:105 Resp: 257995
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.1 66.5





#85

sec-Butylbenzene

Concen: 20.923 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

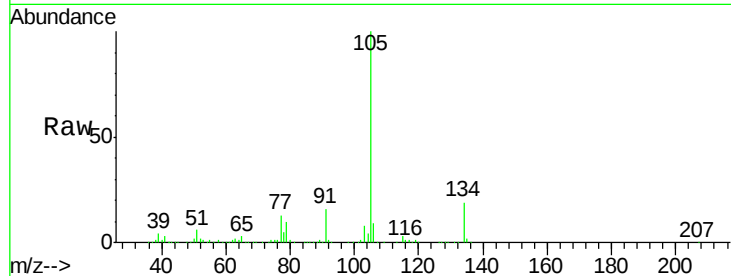
VW0821SBS01

Tot Ion:105 Resp: 312211

Ion Ratio Lower Upper

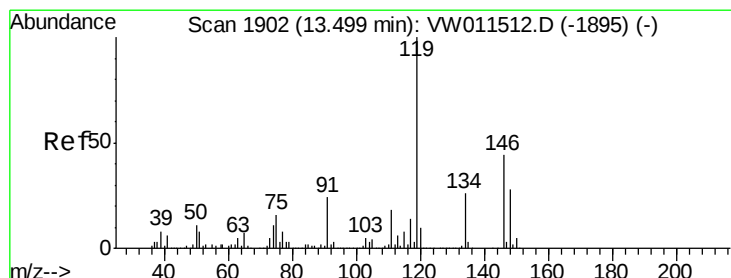
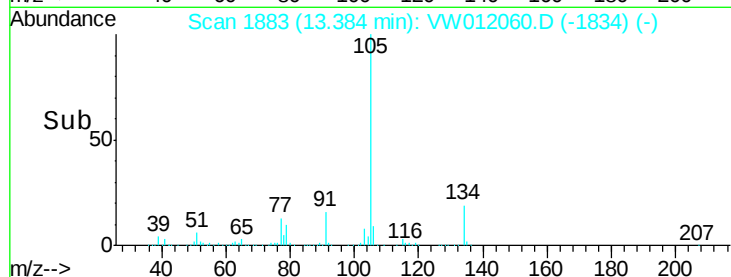
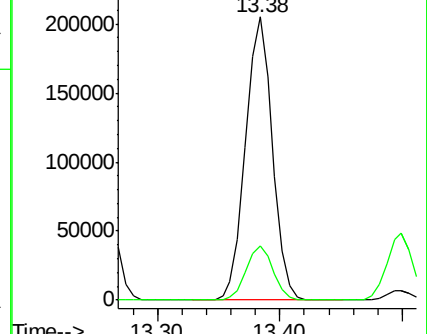
105 100

134 19.4 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.652 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

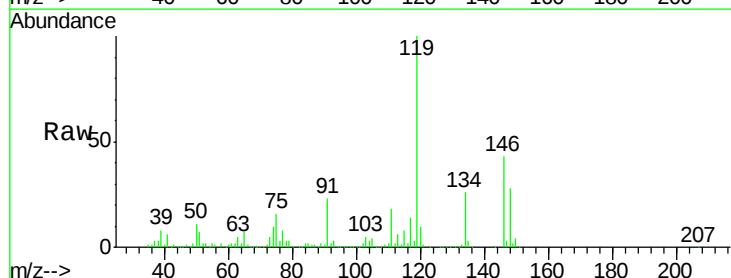
Tgt Ion:119 Resp: 279609

Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.4

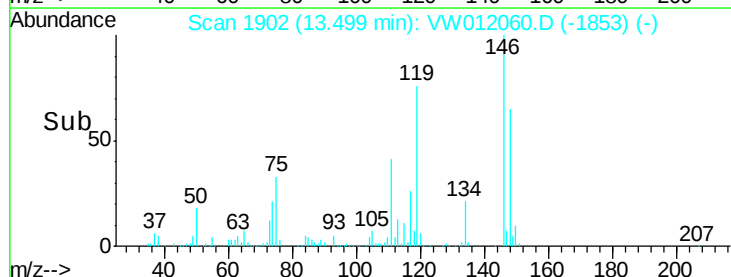
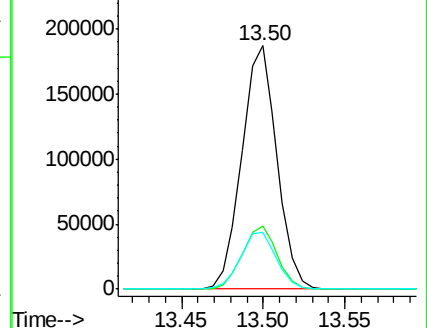
91 23.7 12.1 36.3

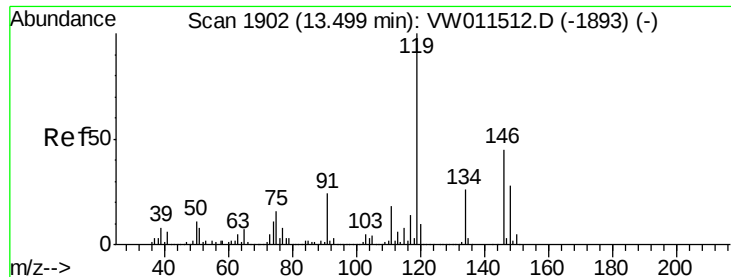


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

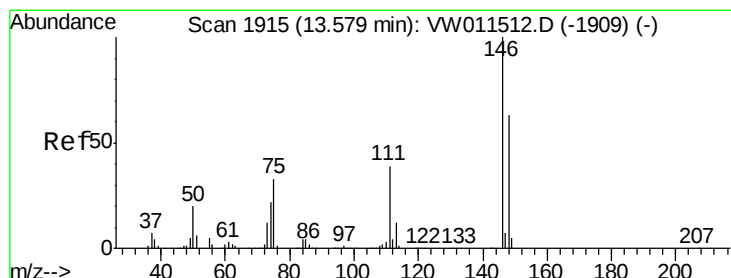
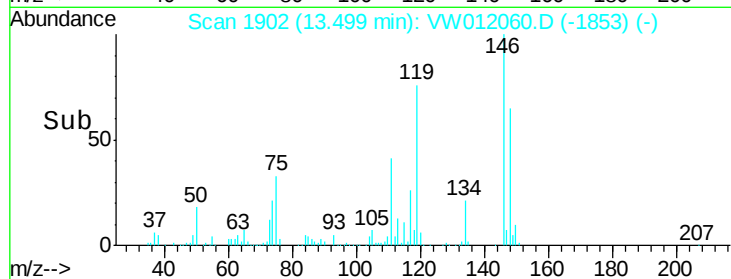
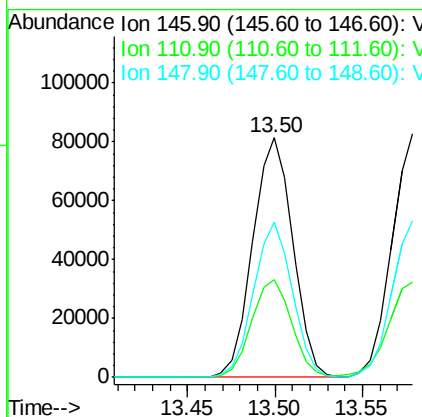
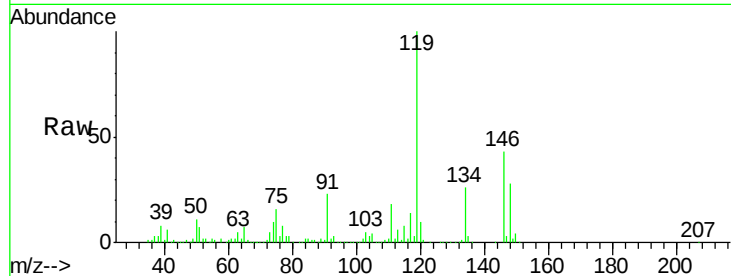




#87
 1,3-Dichlorobenzene
 Concen: 20.008 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

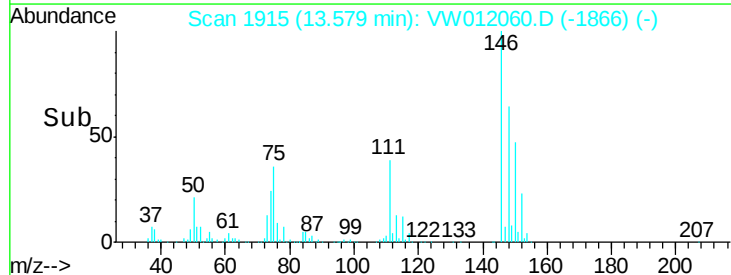
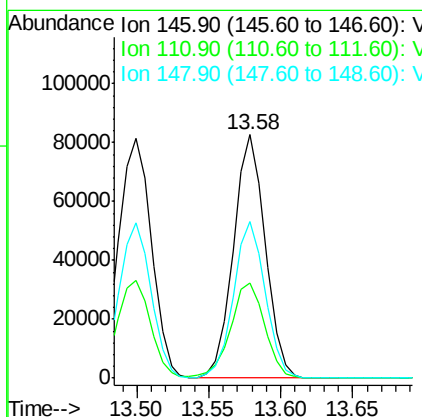
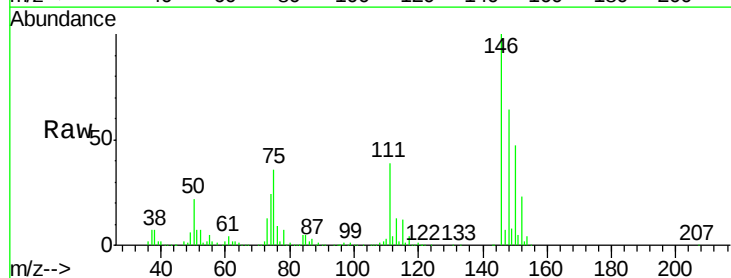
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

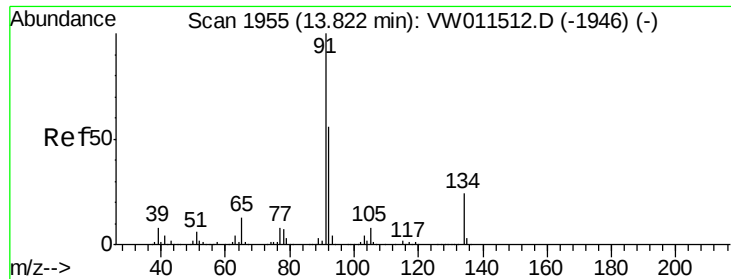
Tot Ion:146 Resp: 129367
 Ion Ratio Lower Upper
 146 100
 111 41.0 20.5 61.6
 148 62.9 31.8 95.3



#88
 1,4-Dichlorobenzene
 Concen: 19.808 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion:146 Resp: 127400
 Ion Ratio Lower Upper
 146 100
 111 42.0 20.1 60.2
 148 64.6 31.9 95.9

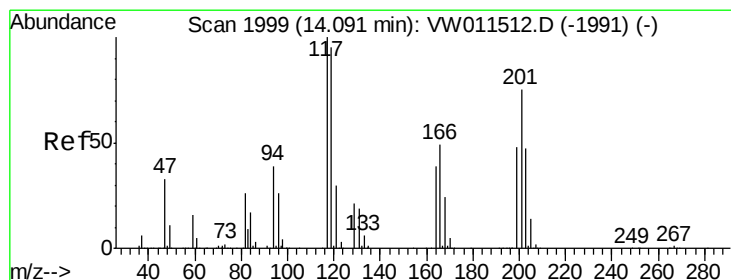
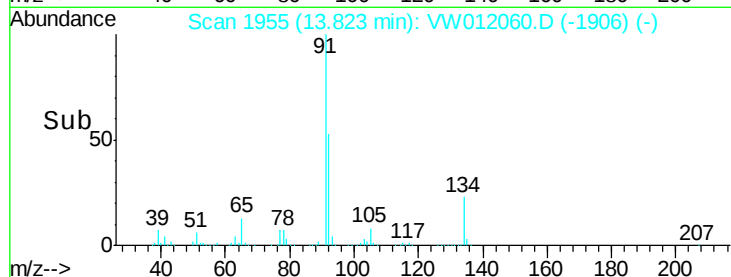
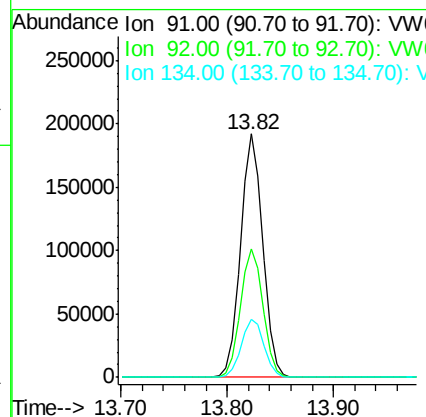
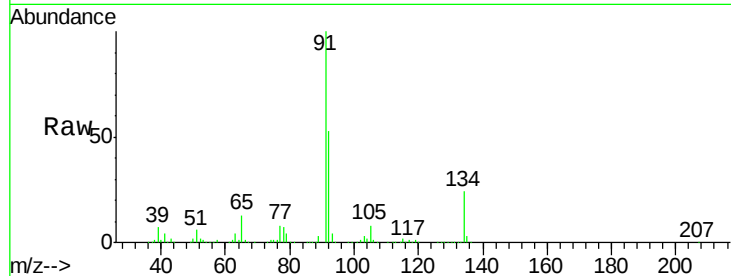




#89
n-Butylbenzene
Concen: 20.831 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

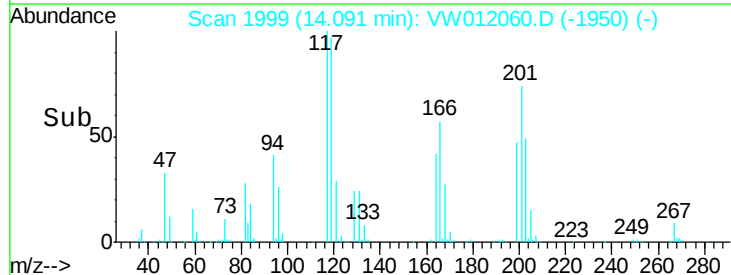
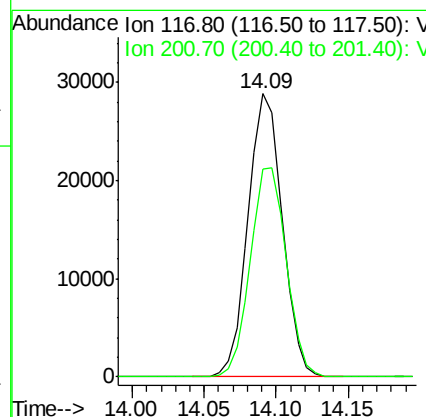
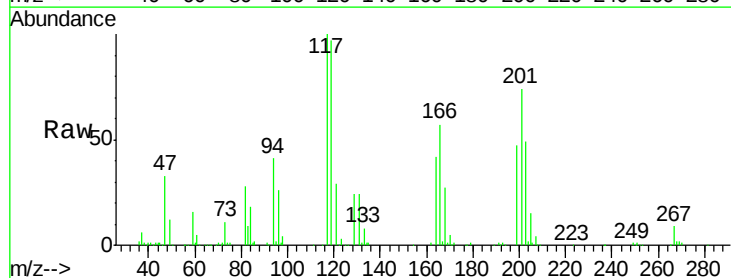
Instrument :
MSVOA_W
ClientSampleId :
VW0821SBS01

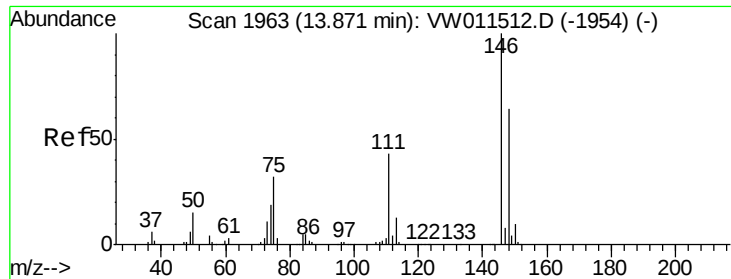
Tot Ion: 91 Resp: 281453
Ion Ratio Lower Upper
91 100
92 53.8 27.5 82.4
134 24.4 12.2 36.6



#90
Hexachloroethane
Concen: 19.833 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW012060.D
Acq: 21 Aug 2019 10:07

Tgt Ion: 117 Resp: 47481
Ion Ratio Lower Upper
117 100
201 77.4 39.4 118.2





#91

1,2-Dichlorobenzene

Concen: 20.027 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

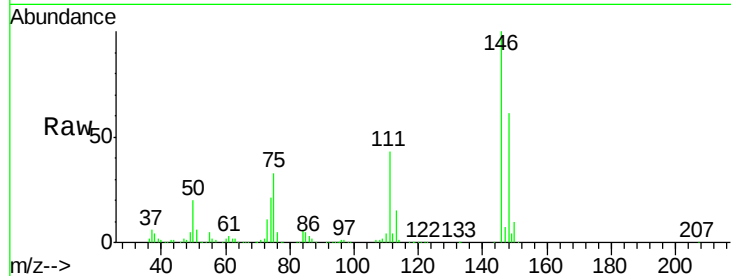
Tot Ion:146 Resp: 114528

Ion Ratio Lower Upper

146 100

111 42.9 21.6 65.0

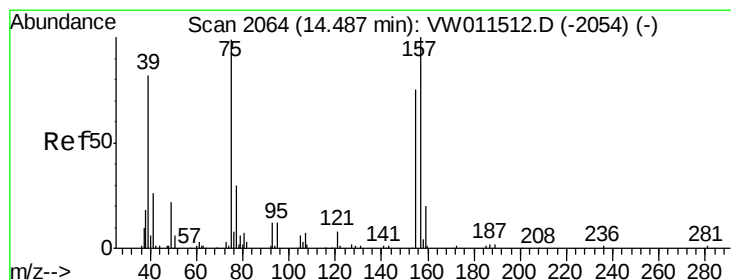
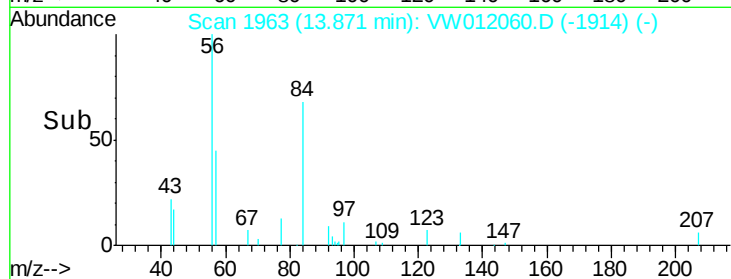
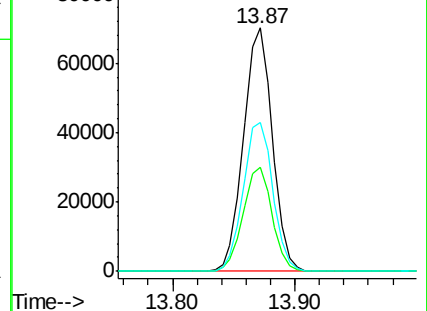
148 62.8 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.470 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

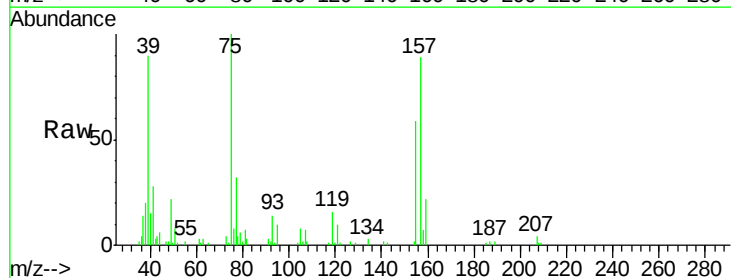
Tgt Ion: 75 Resp: 9317

Ion Ratio Lower Upper

75 100

155 72.4 38.2 114.6

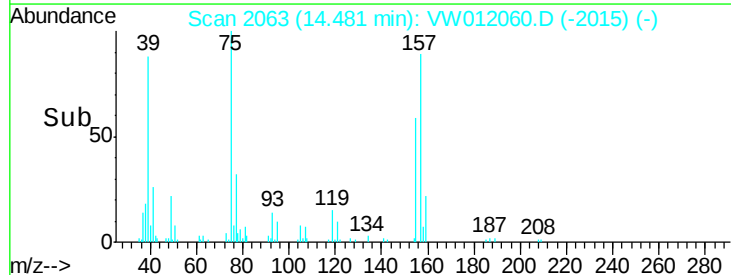
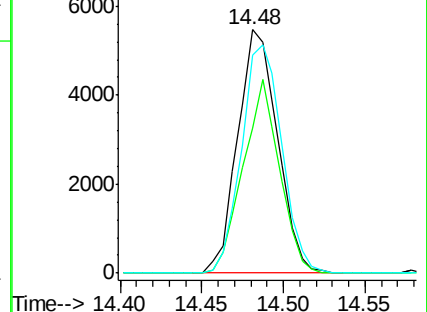
157 94.9 48.9 146.7

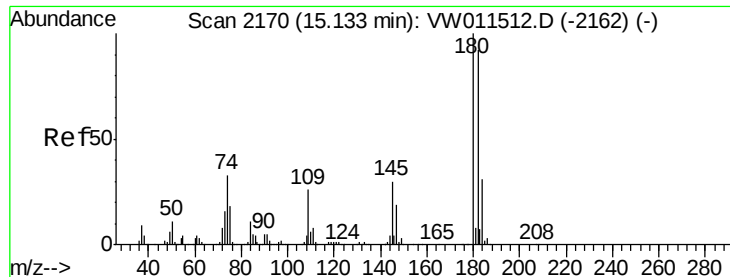


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

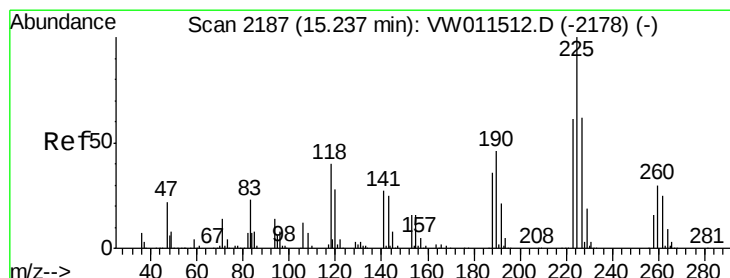
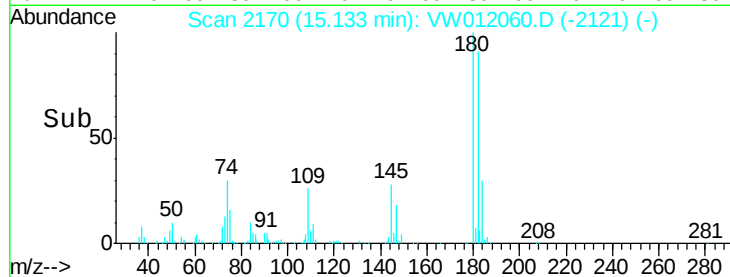
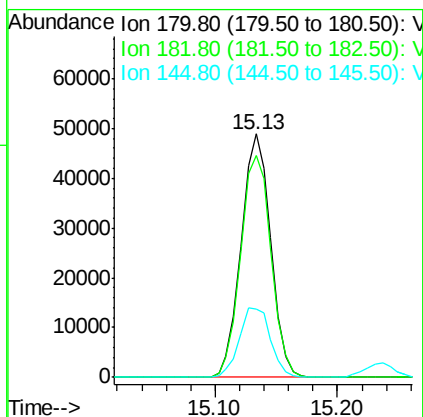
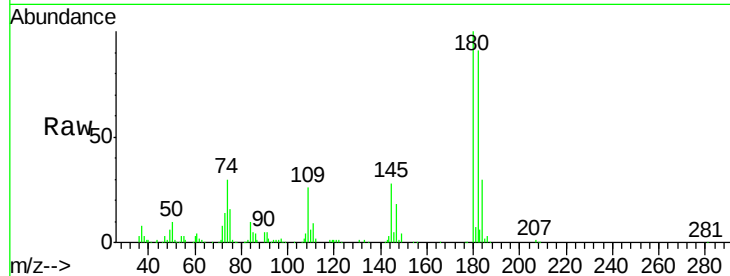




#93
 1,2,4-Trichlorobenzene
 Concen: 20.259 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

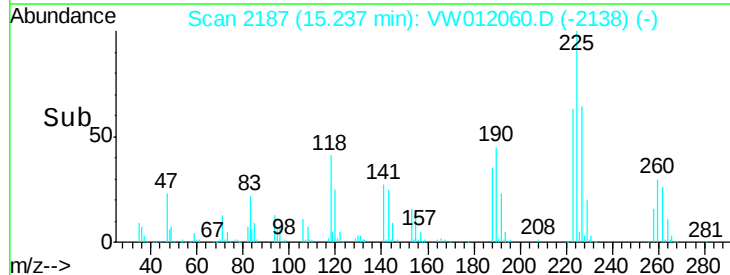
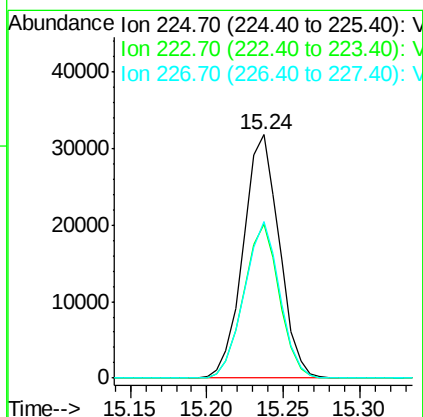
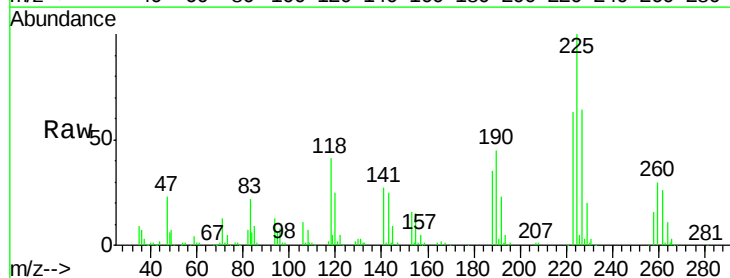
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0821SBS01

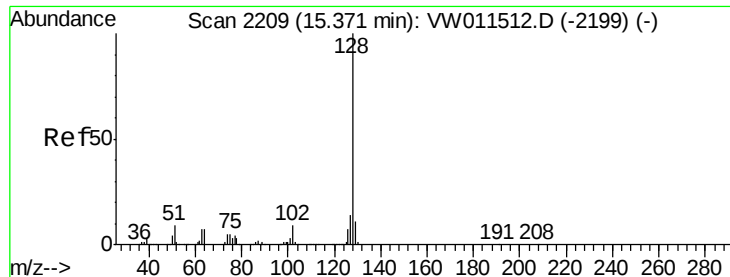
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.4	142.2
145	30.3	15.4	46.1



#94
 Hexachlorobutadiene
 Concen: 20.697 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW012060.D
 Acq: 21 Aug 2019 10:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	30.8	92.3
227	63.4	31.6	94.7





#95

Naphthalene

Concen: 19.586 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

Instrument :

MSVOA_W

ClientSampleId :

VW0821SBS01

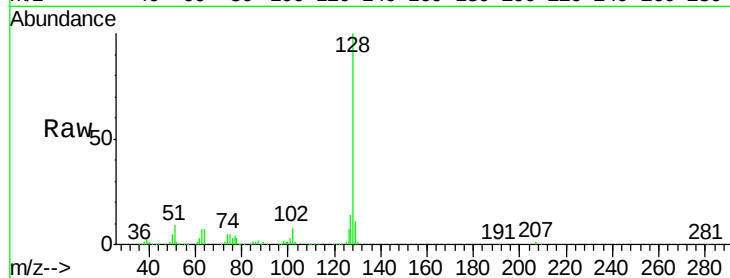
Tot Ion:128 Resp: 144280

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

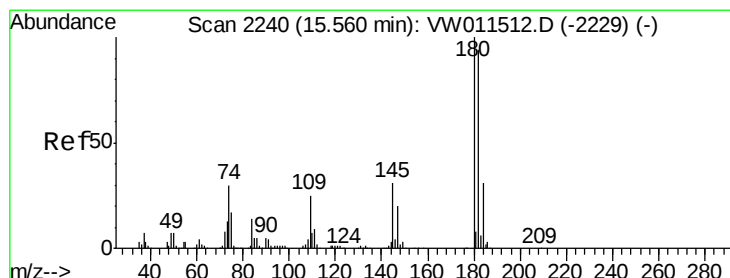
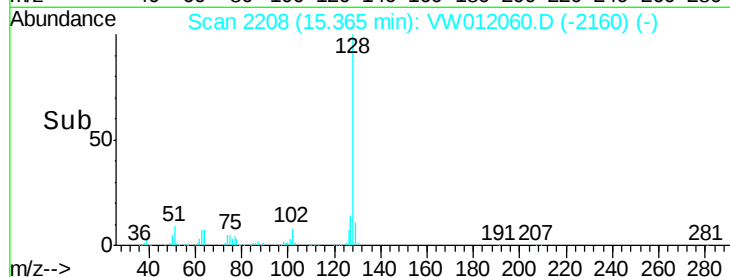
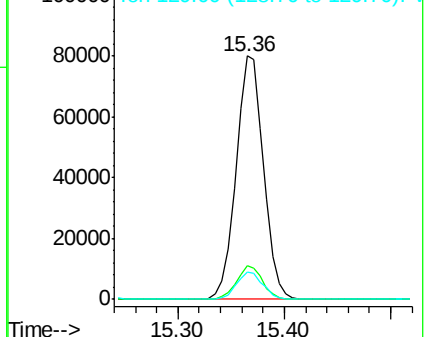
129 10.8 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 19.960 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW012060.D

Acq: 21 Aug 2019 10:07

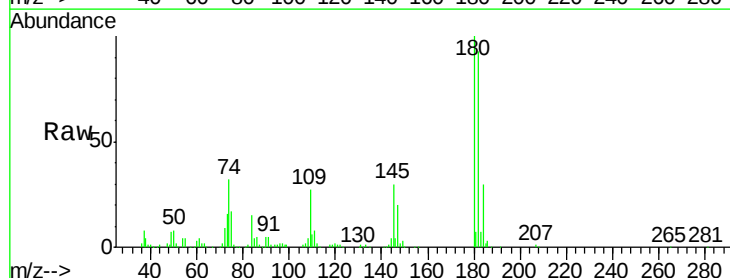
Tgt Ion:180 Resp: 70515

Ion Ratio Lower Upper

180 100

182 95.5 47.4 142.2

145 32.0 15.9 47.7



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

