

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052019\
 Data File : VW010458.D
 Acq On : 20 May 2019 20:33
 Operator : SY/VA
 Sample : VW0520SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

Quant Time: May 21 06:48:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	131529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	238761	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	213975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	101836	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	77431	57.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.08%	
35) Dibromofluoromethane	7.88	113	76145	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	
50) Toluene-d8	10.32	98	296121	53.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.00%	
62) 4-Bromofluorobenzene	12.62	95	115493	52.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	19905	16.801	ug/l	98
3) Chloromethane	2.21	50	24890	18.011	ug/l	97
4) Vinyl Chloride	2.35	62	28365	17.720	ug/l	99
5) Bromomethane	2.73	94	21507	19.530	ug/l	100
6) Chloroethane	2.90	64	19891	19.357	ug/l	97
7) Trichlorofluoromethane	3.24	101	45414	19.217	ug/l	100
8) Diethyl Ether	3.68	74	15620	20.851	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	28451	19.549	ug/l	99
10) Methyl Iodide	4.26	142	27057	16.265	ug/l	98
11) Tert butyl alcohol	5.17	59	12706	104.049	ug/l	95
12) 1,1-Dichloroethene	4.03	96	27335	19.676	ug/l	97
13) Acrolein	3.89	56	10161	132.295	ug/l	94
14) Allyl chloride	4.67	41	40166	19.973	ug/l	98
15) Acrylonitrile	5.37	53	32840	104.673	ug/l	99
16) Acetone	4.12	43	27511	99.276	ug/l	99
17) Carbon Disulfide	4.37	76	77769	18.767	ug/l	99
18) Methyl Acetate	4.67	43	15608	23.029	ug/l	96
19) Methyl tert-butyl Ether	5.43	73	74813	21.123	ug/l	95
20) Methylene Chloride	4.92	84	34360	17.873	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	32109	20.149	ug/l	93
22) Diisopropyl ether	6.31	45	84628	20.523	ug/l	98
23) Vinyl Acetate	6.26	43	244982	99.460	ug/l	99
24) 1,1-Dichloroethane	6.21	63	49967	20.306	ug/l	98
25) 2-Butanone	7.17	43	42129	106.231	ug/l	100
26) 2,2-Dichloropropane	7.17	77	45364	19.354	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	35540	20.514	ug/l	99
28) Bromochloromethane	7.51	49	19734	22.399	ug/l #	7
29) Tetrahydrofuran	7.53	42	28047	104.514	ug/l	99
30) Chloroform	7.68	83	54497	20.532	ug/l	98
31) Cyclohexane	7.95	56	49373	19.155	ug/l #	96
32) 1,1,1-Trichloroethane	7.87	97	51611	20.345	ug/l	98
36) 1,1-Dichloropropene	8.08	75	42396	19.061	ug/l	99
37) Ethyl Acetate	7.26	43	19146	20.243	ug/l	99
38) Carbon Tetrachloride	8.07	117	45423	18.932	ug/l	98

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Quant Time: May 21 06:48:50 2019
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 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.34	83	56185	18.855	ug/l	97
40) Benzene	8.32	78	121454	19.646	ug/l	100
41) Methacrylonitrile	7.48	41	9124	16.235	ug/l #	84
42) 1,2-Dichloroethane	8.40	62	35760	20.239	ug/l	100
43) Isopropyl Acetate	8.43	43	38142	20.186	ug/l	99
44) Trichloroethene	9.09	130	35454	19.318	ug/l	95
45) 1,2-Dichloropropane	9.37	63	28967	19.729	ug/l	98
46) Dibromomethane	9.46	93	16874	19.652	ug/l	98
47) Bromodichloromethane	9.65	83	42342	19.623	ug/l	97
48) Methyl methacrylate	9.43	41	16552	19.147	ug/l	96
49) 1,4-Dioxane	9.45	88	5898	420.493	ug/l	98
51) 4-Methyl-2-Pentanone	10.21	43	96282	100.558	ug/l	100
52) Toluene	10.39	92	82928	19.975	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	41652	19.060	ug/l	97
54) cis-1,3-Dichloropropene	10.07	75	48775	19.543	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	25066	20.301	ug/l	98
56) Ethyl methacrylate	10.65	69	33556	19.705	ug/l	96
57) 1,3-Dichloropropane	10.93	76	41373	20.004	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	78646	104.269	ug/l	100
59) 2-Hexanone	10.97	43	67545	98.892	ug/l	100
60) Dibromochloromethane	11.13	129	30110	19.268	ug/l	100
61) 1,2-Dibromoethane	11.24	107	24819	19.843	ug/l	99
64) Tetrachloroethene	10.86	164	28920	19.388	ug/l	98
65) Chlorobenzene	11.66	112	88339	19.371	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	32181	19.699	ug/l	99
67) Ethyl Benzene	11.73	91	156399	19.425	ug/l	99
68) m/p-Xylenes	11.84	106	123568	39.128	ug/l	99
69) o-Xylene	12.16	106	58973	19.710	ug/l	100
70) Styrene	12.18	104	100095	19.717	ug/l	99
71) Bromoform	12.35	173	16940	18.831	ug/l #	97
73) Isopropylbenzene	12.47	105	158108	19.565	ug/l	100
74) N-amyl acetate	12.27	43	36548	19.736	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	28839	19.621	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	37056	35.848	ug/l	28
77) Bromobenzene	12.75	156	36121	19.974	ug/l	97
78) n-propylbenzene	12.80	91	182415	19.370	ug/l	99
79) 2-Chlorotoluene	12.90	91	108046	19.784	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	136014	19.873	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	9098	18.369	ug/l	98
82) 4-Chlorotoluene	12.99	91	112979	19.930	ug/l	98
83) tert-Butylbenzene	13.21	119	114538	19.159	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	135501	19.878	ug/l	100
85) sec-Butylbenzene	13.38	105	160977	19.241	ug/l	99
86) p-Isopropyltoluene	13.50	119	146397	19.332	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	69783	19.669	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	70156	19.708	ug/l	99
89) n-Butylbenzene	13.83	91	136926	19.010	ug/l	100
90) Hexachloroethane	14.10	117	28596	19.509	ug/l	94
91) 1,2-Dichlorobenzene	13.87	146	63303	19.582	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	5326	19.487	ug/l	96

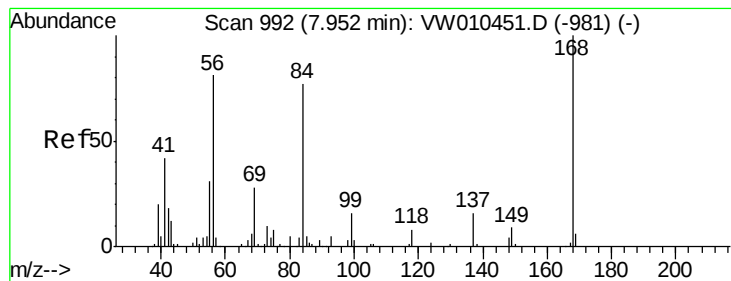
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	40727	18.516	ug/l	99
94) Hexachlorobutadiene	15.24	225	21757	18.516	ug/l	97
95) Naphthalene	15.37	128	87200	18.886	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	35600	18.810	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

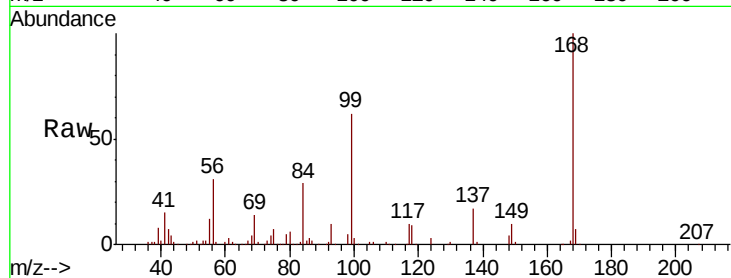
VW0520SBS01

Tot Ion:168 Resp: 131529

Ion Ratio Lower Upper

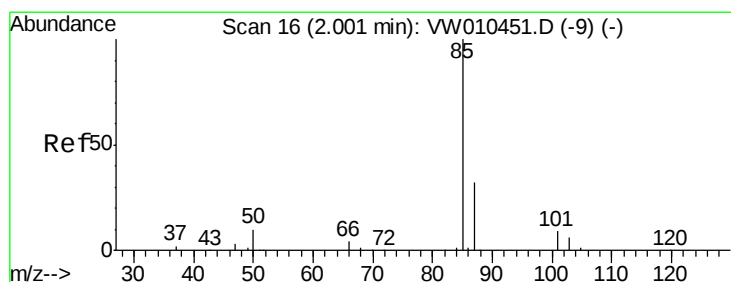
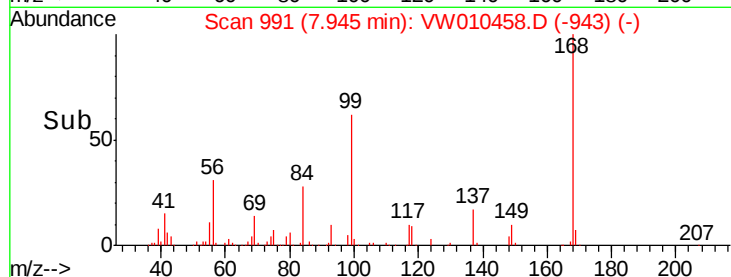
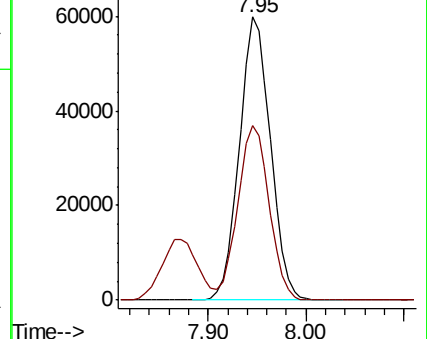
168 100

99 61.6 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 16.801 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW010458.D

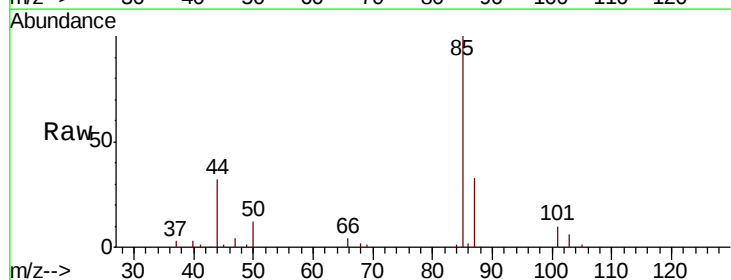
Acq: 20 May 2019 20:33

Tgt Ion: 85 Resp: 19905

Ion Ratio Lower Upper

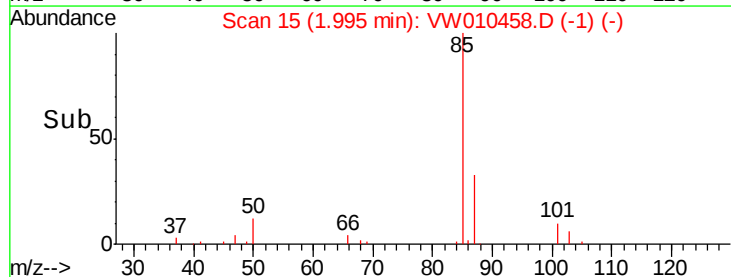
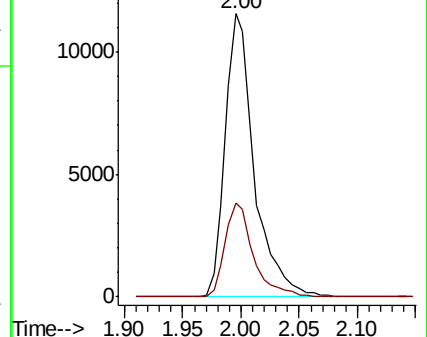
85 100

87 33.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 18.011 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

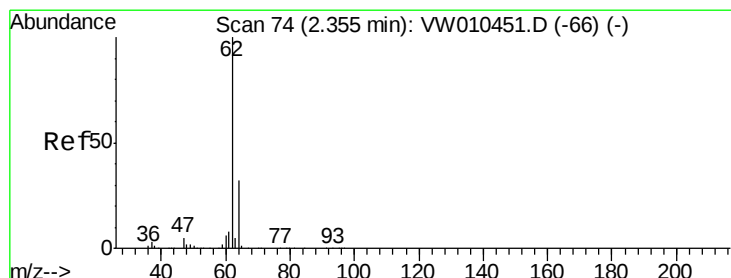
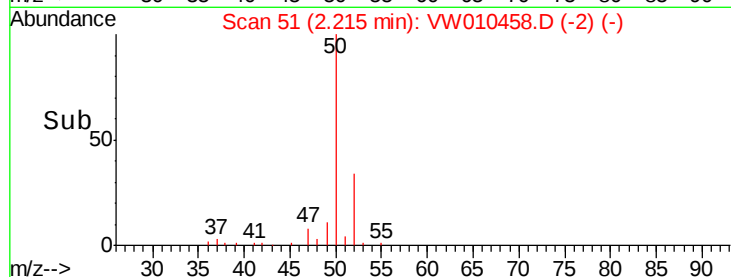
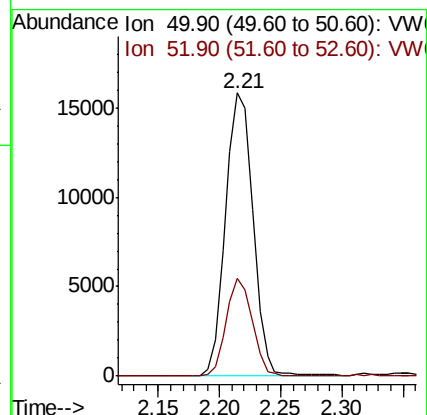
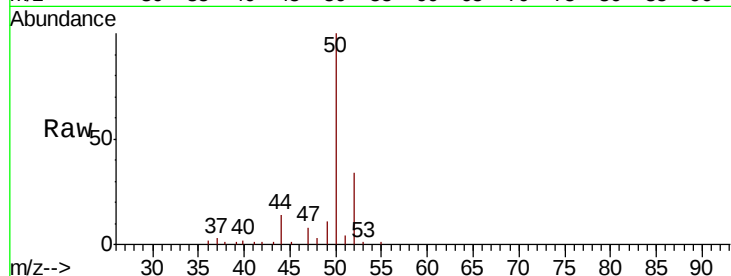
VW0520SBS01

Tot Ion: 50 Resp: 24890

Ion Ratio Lower Upper

50 100

52 34.5 26.3 39.5



#4

Vinyl Chloride

Concen: 17.720 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW010458.D

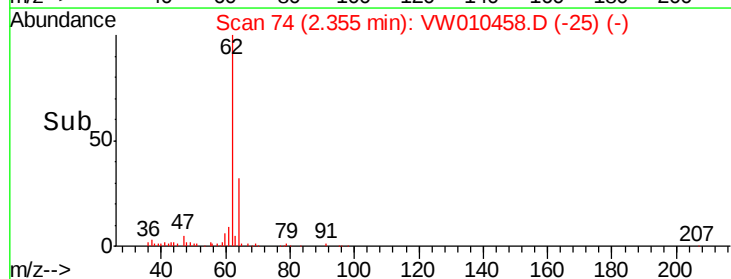
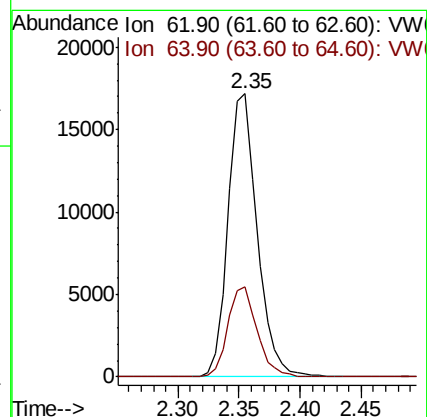
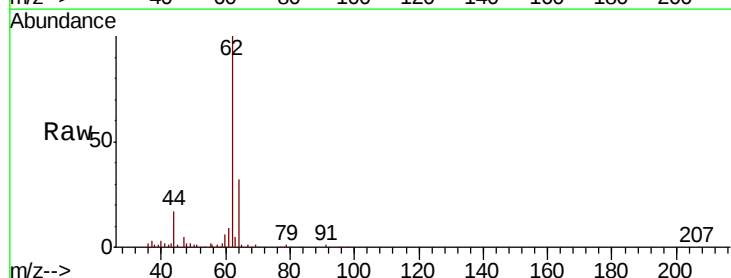
Acq: 20 May 2019 20:33

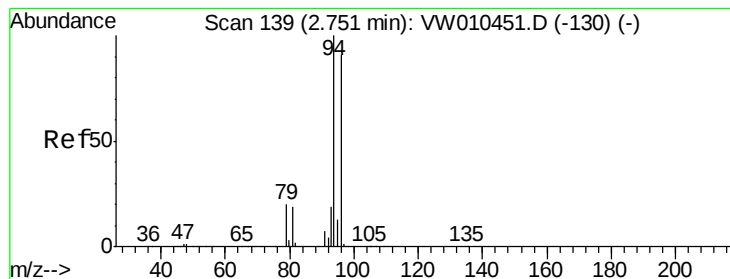
Tgt Ion: 62 Resp: 28365

Ion Ratio Lower Upper

62 100

64 31.9 25.8 38.8





#5

Bromomethane

Concen: 19.530 ug/l

RT: 2.73 min Scan# 136

Delta R.T. -0.02 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

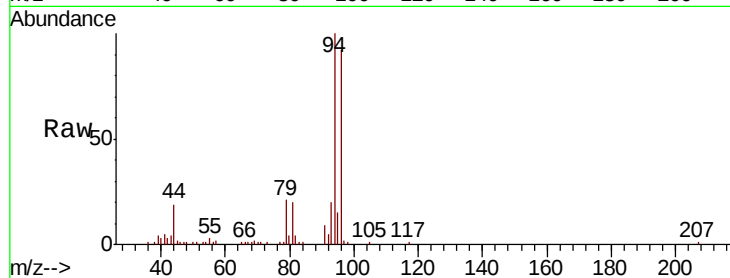
VW0520SBS01

Tot Ion: 94 Resp: 21507

Ion Ratio Lower Upper

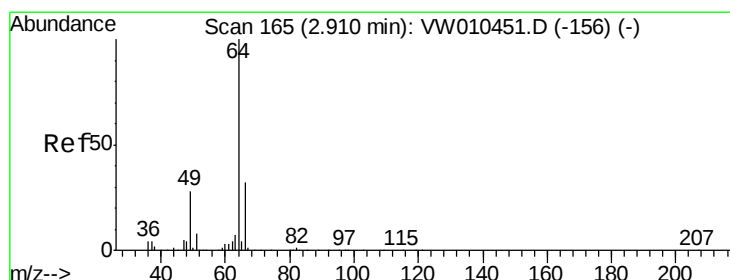
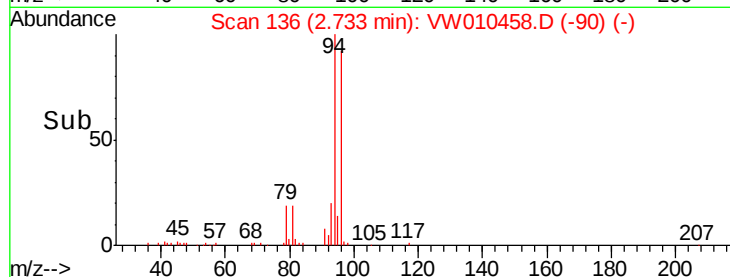
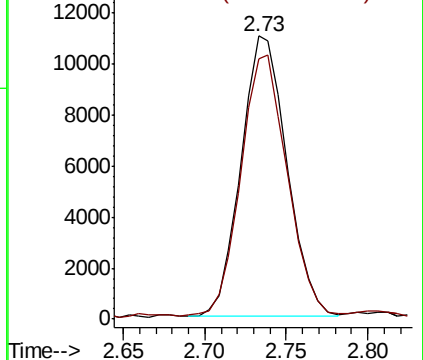
94 100

96 91.5 72.9 109.3



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 19.357 ug/l

RT: 2.90 min Scan# 163

Delta R.T. -0.01 min

Lab File: VW010458.D

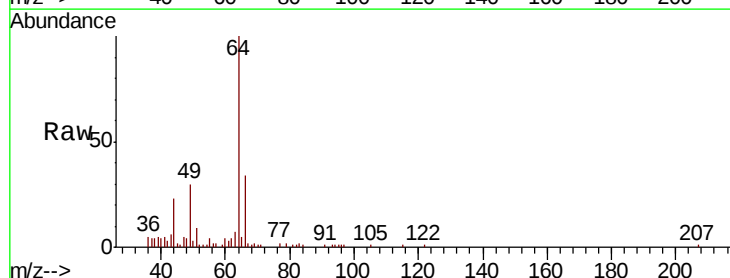
Acq: 20 May 2019 20:33

Tgt Ion: 64 Resp: 19891

Ion Ratio Lower Upper

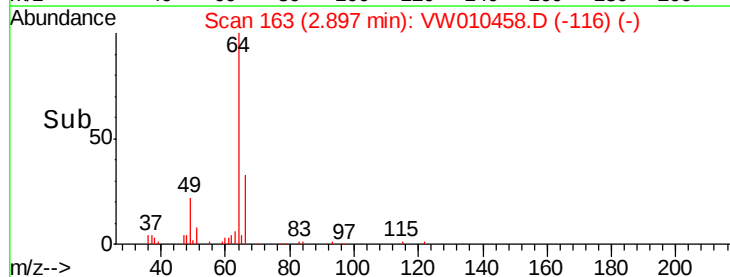
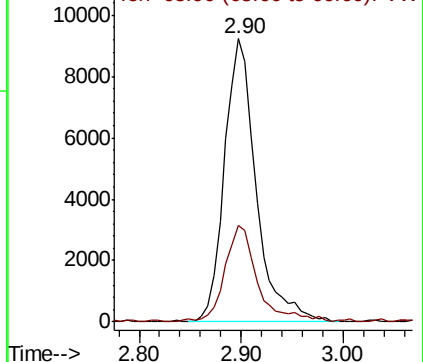
64 100

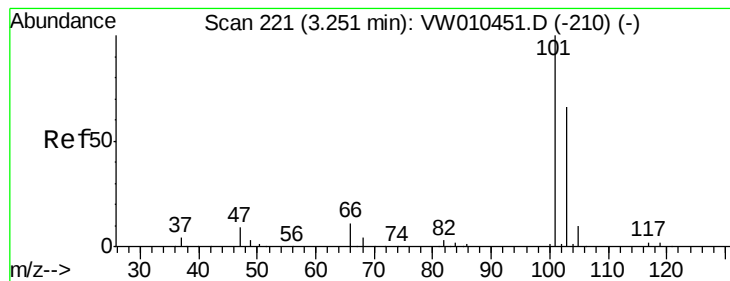
66 33.5 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



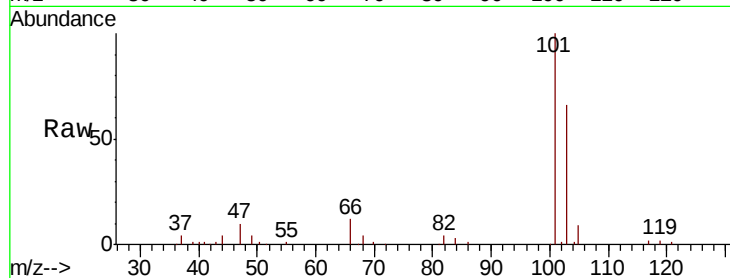


#7

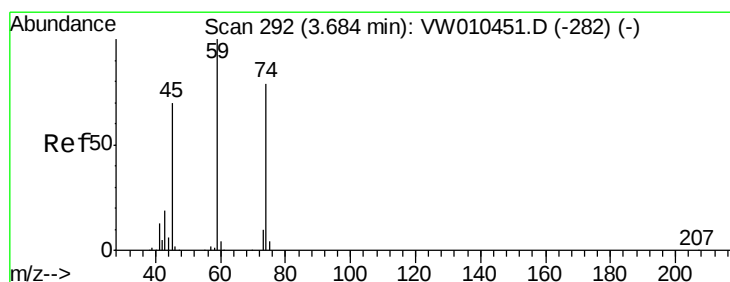
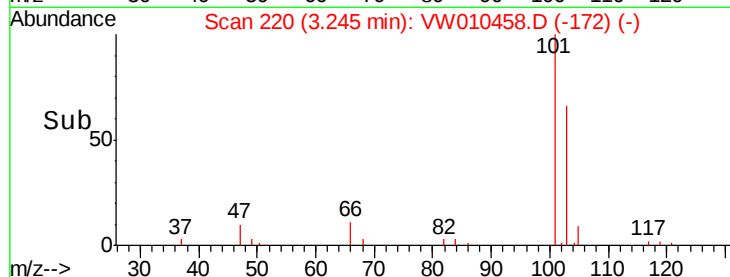
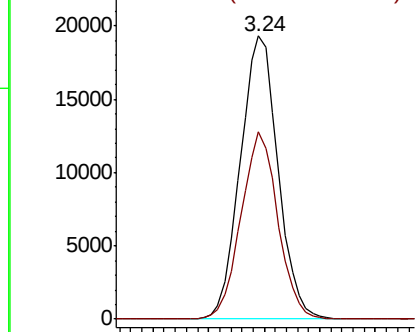
Trichlorofluoromethane
 Concen: 19.217 ug/l
 RT: 3.24 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Instrument :
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Tot Ion:101 Resp: 45414
 Ion Ratio Lower Upper
 101 100
 103 66.4 53.0 79.4



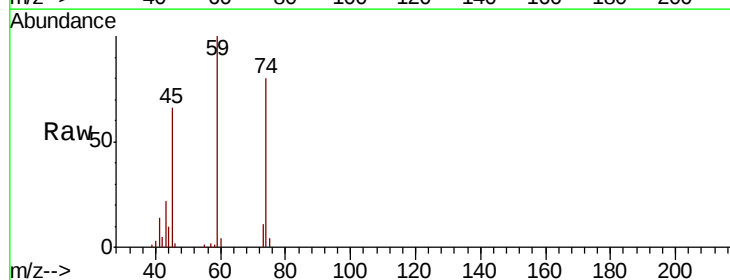
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



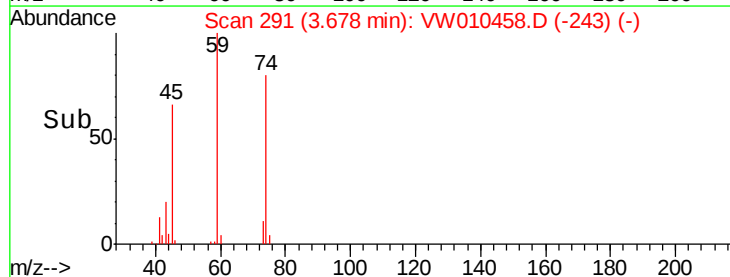
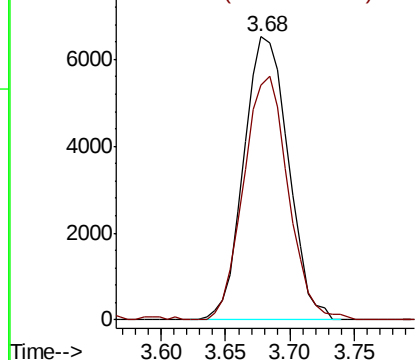
#8

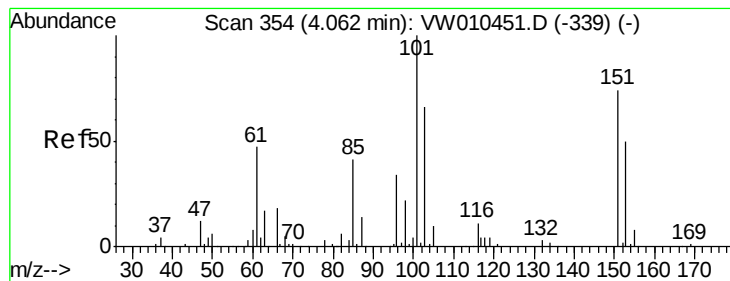
Diethyl Ether
 Concen: 20.851 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion: 74 Resp: 15620
 Ion Ratio Lower Upper
 74 100
 45 86.2 42.9 128.5



Abundance Ion 74.00 (73.70 to 74.70): VW
 Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.549 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

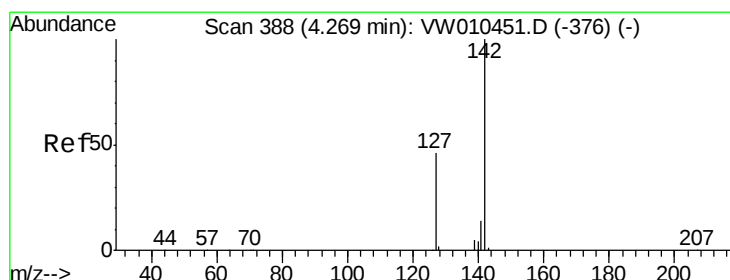
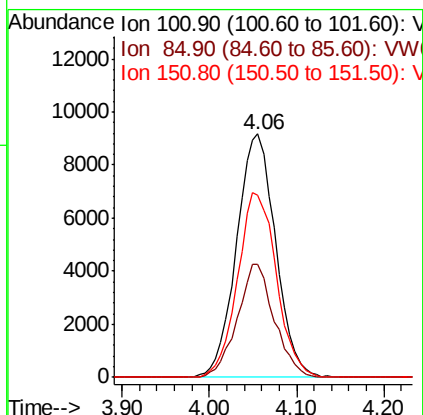
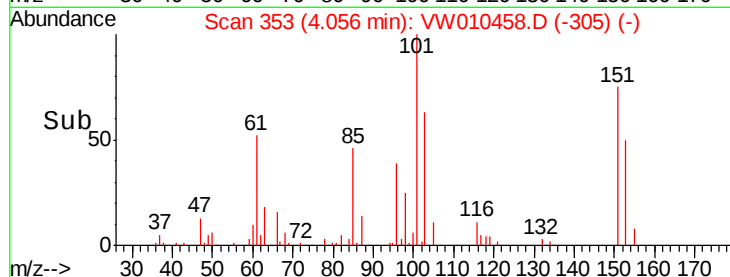
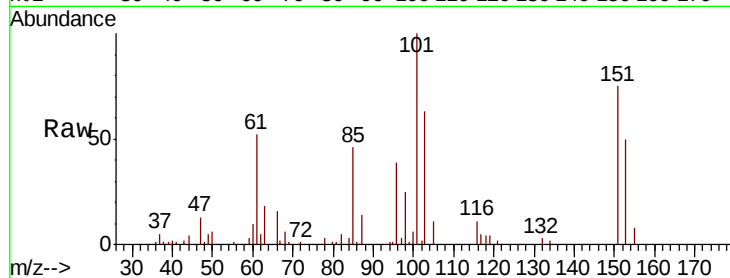
Tot Ion:101 Resp: 28451

Ion Ratio Lower Upper

101 100

85 43.7 34.3 51.5

151 75.5 60.3 90.5



#10

Methyl Iodide

Concen: 16.265 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

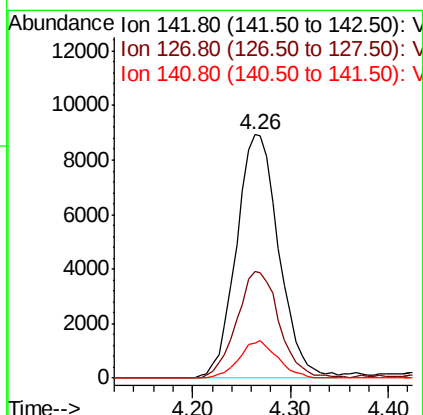
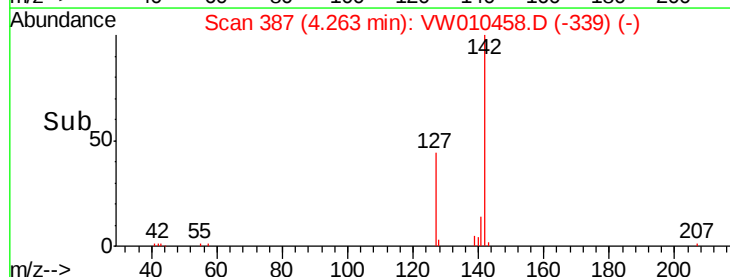
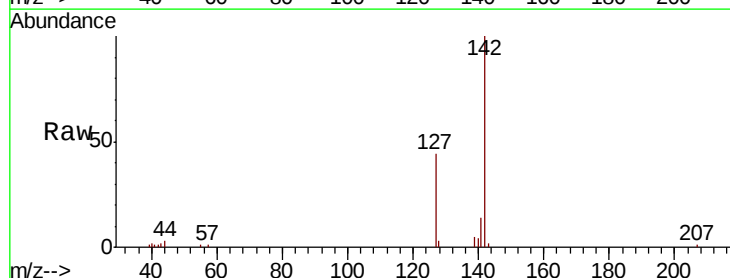
Tgt Ion:142 Resp: 27057

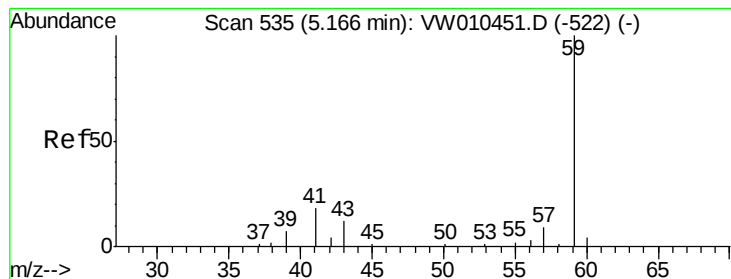
Ion Ratio Lower Upper

142 100

127 43.8 36.1 54.1

141 13.8 11.3 16.9



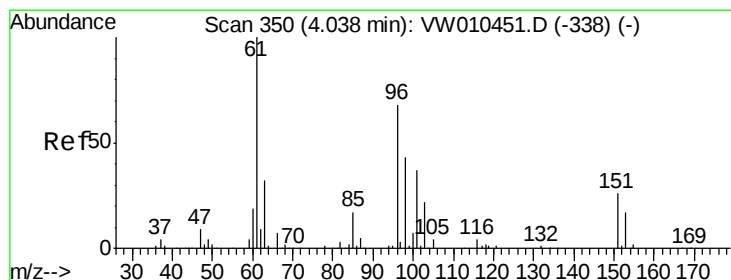
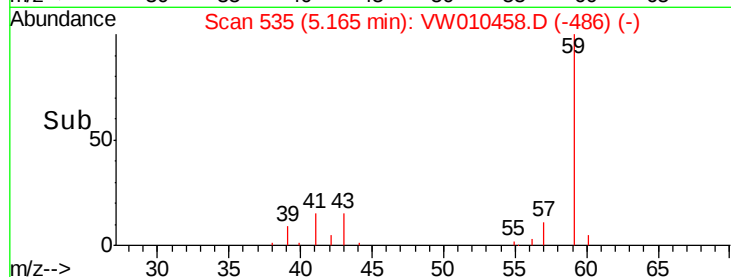
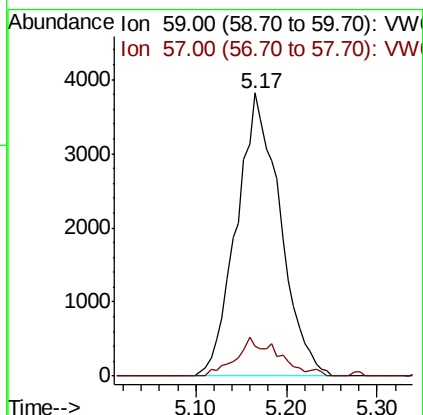
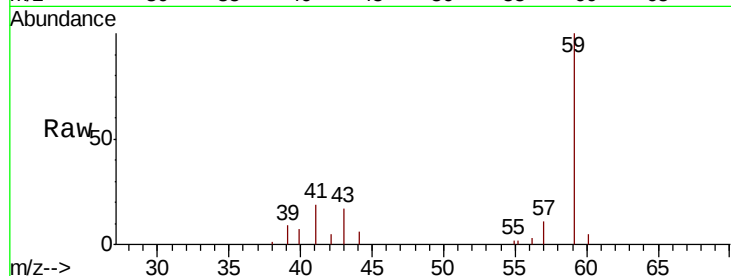


#11

Tert butyl alcohol
 Concen: 104.049 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

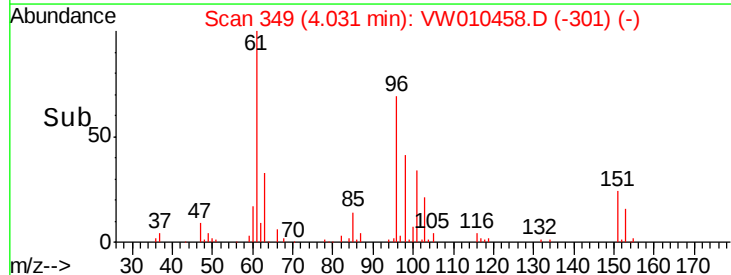
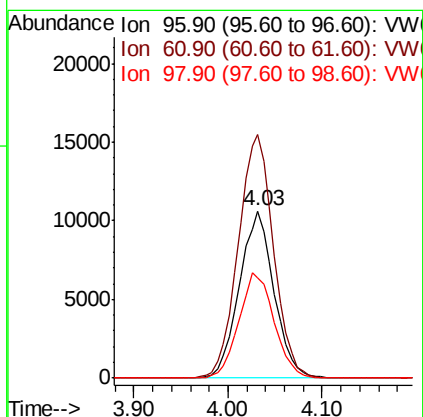
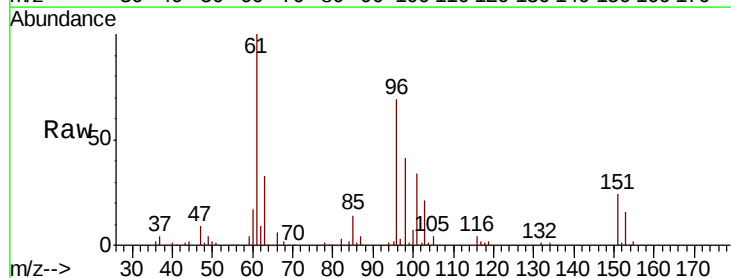
Tot Ion: 59 Resp: 12706
 Ion Ratio Lower Upper
 59 100
 57 12.7 8.8 13.2

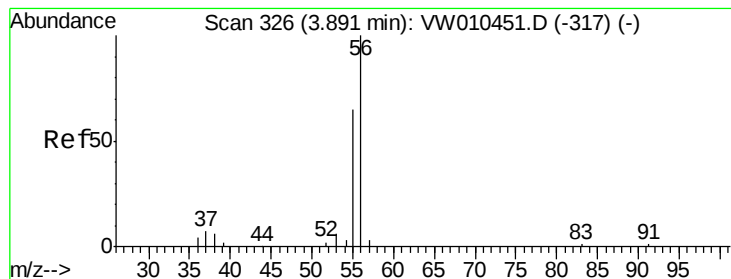


#12

1,1-Dichloroethene
 Concen: 19.676 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion: 96 Resp: 27335
 Ion Ratio Lower Upper
 96 100
 61 145.4 118.3 177.5
 98 60.0 51.0 76.6





#13

Acrolein

Concen: 132.295 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

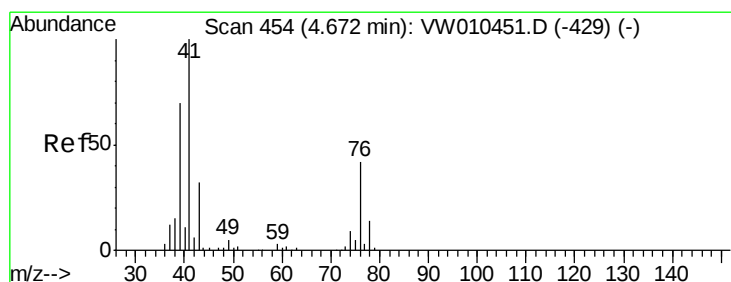
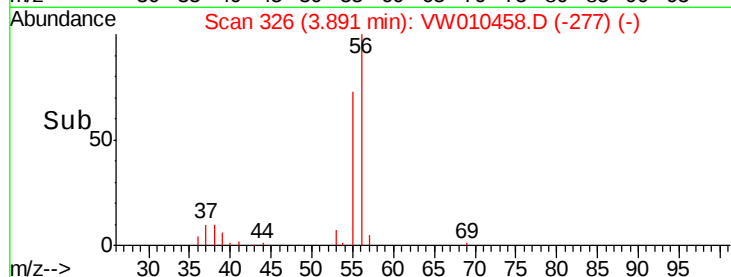
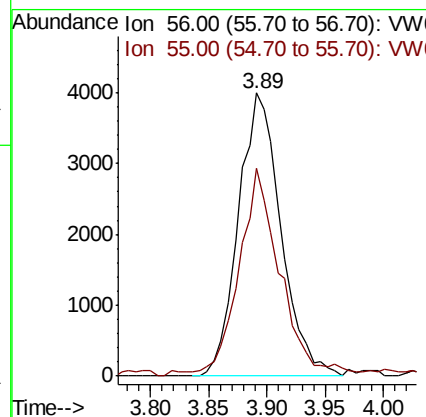
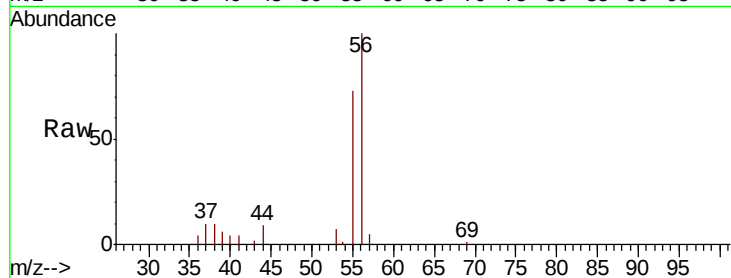
VW0520SBS01

Tot Ion: 56 Resp: 10161

Ion Ratio Lower Upper

56 100

55 67.4 57.9 86.9



#14

Allyl chloride

Concen: 19.973 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

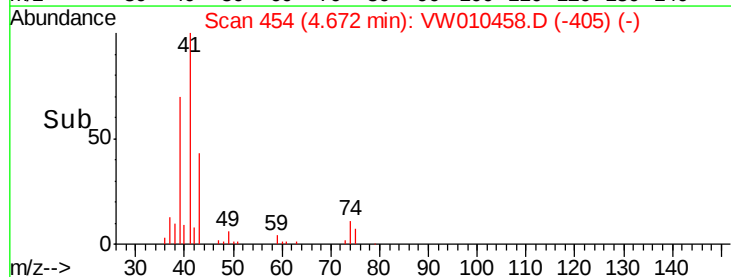
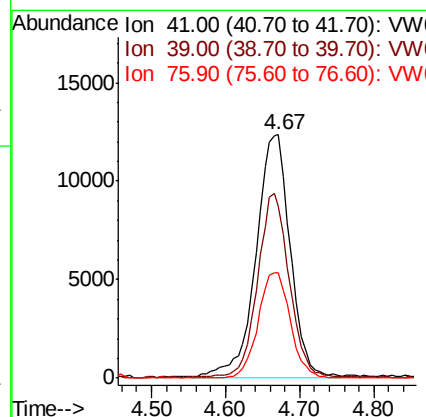
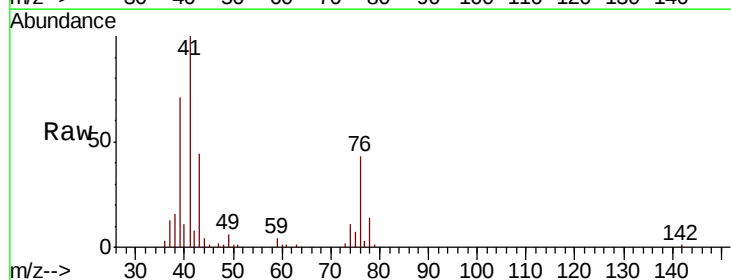
Tgt Ion: 41 Resp: 40166

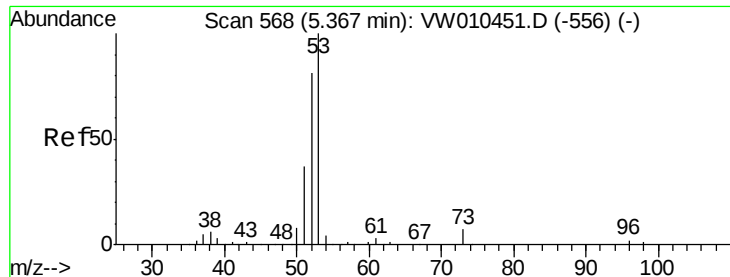
Ion Ratio Lower Upper

41 100

39 70.5 55.0 82.4

76 40.3 32.8 49.2





#15

Acrylonitrile

Concen: 104.673 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

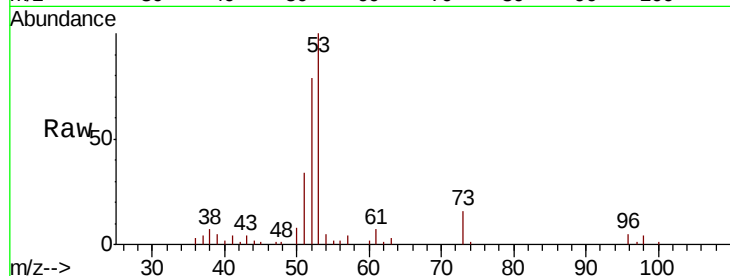
Tot Ion: 53 Resp: 32840

Ion Ratio Lower Upper

53 100

52 81.3 65.6 98.4

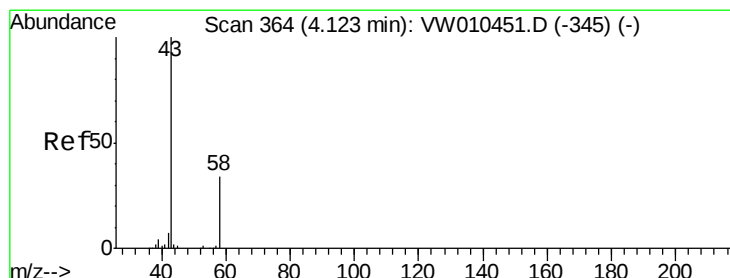
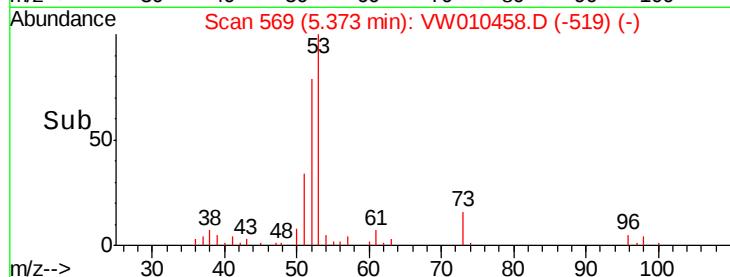
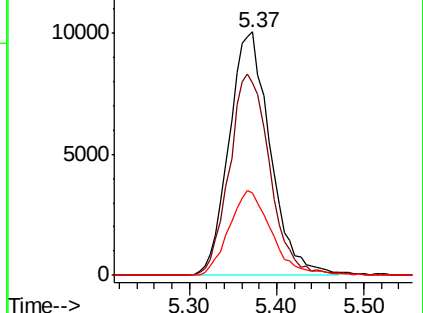
51 36.0 29.5 44.3



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 99.276 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW010458.D

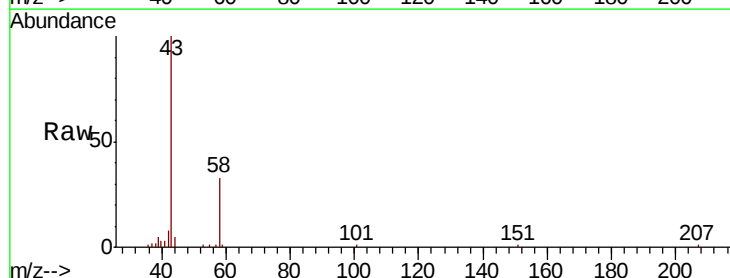
Acq: 20 May 2019 20:33

Tgt Ion: 43 Resp: 27511

Ion Ratio Lower Upper

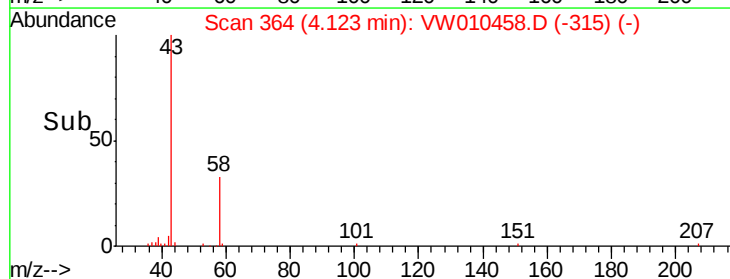
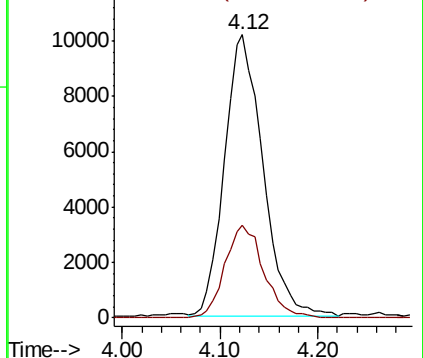
43 100

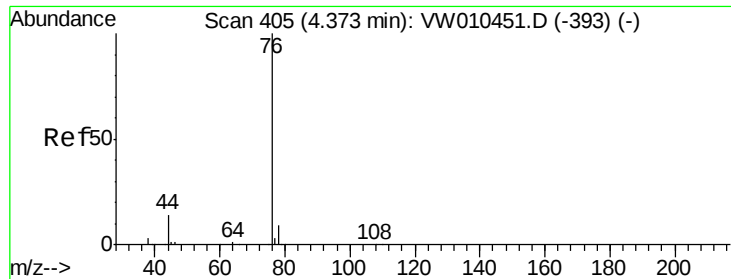
58 32.9 27.0 40.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 18.767 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

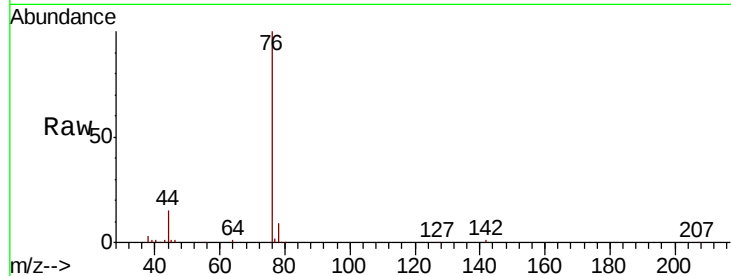
VW0520SBS01

Tot Ion: 76 Resp: 77769

Ion Ratio Lower Upper

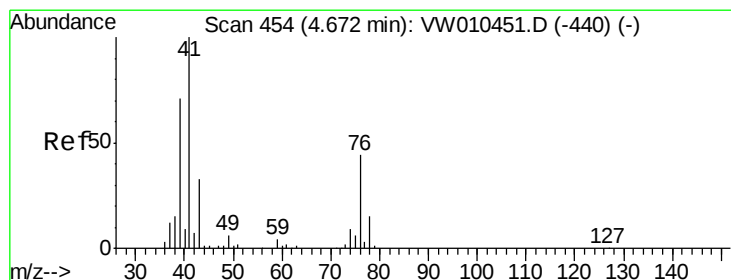
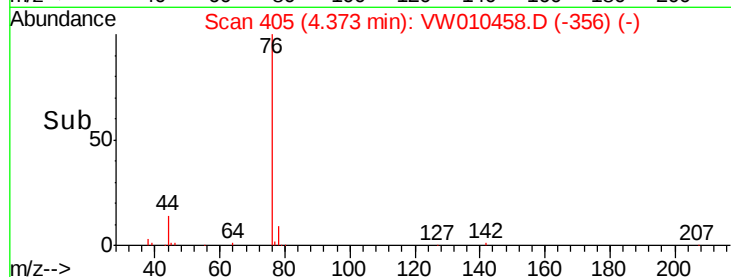
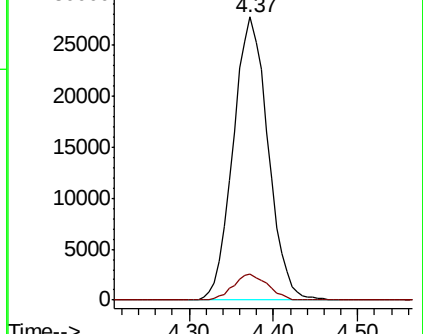
76 100

78 9.3 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 23.029 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW010458.D

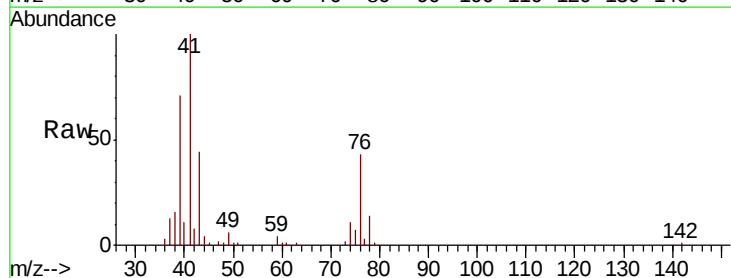
Acq: 20 May 2019 20:33

Tgt Ion: 43 Resp: 15608

Ion Ratio Lower Upper

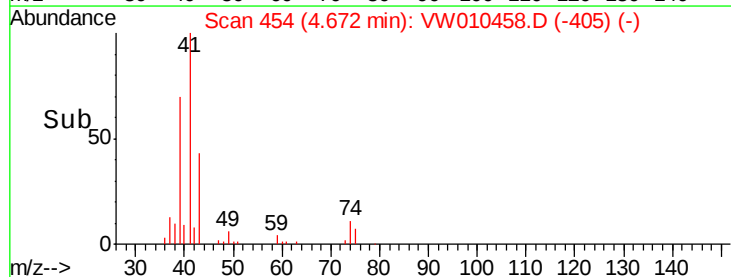
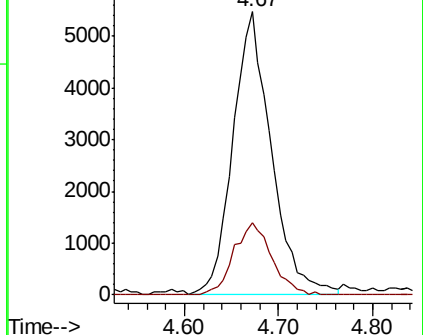
43 100

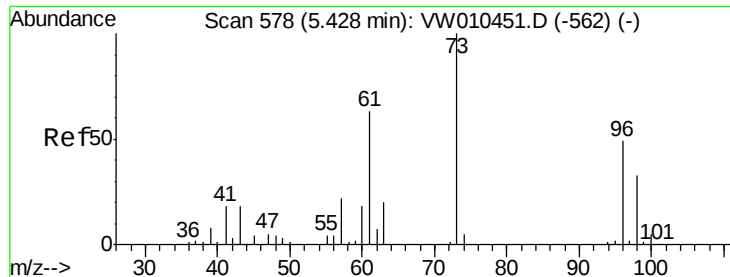
74 25.1 21.6 32.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

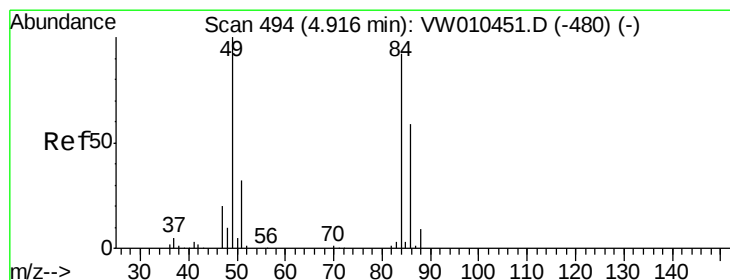
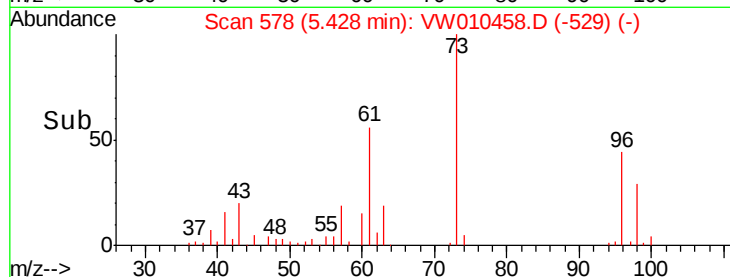
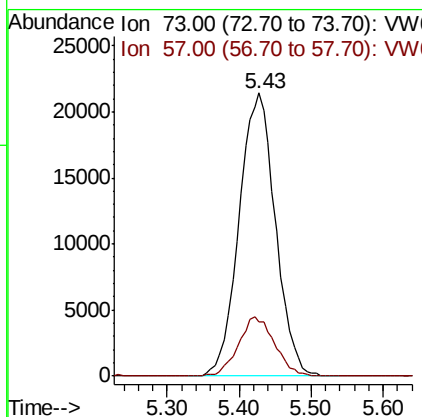
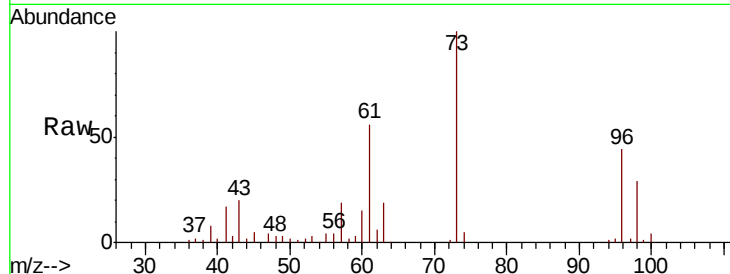




#19
Methyl tert-butyl Ether
Concen: 21.123 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

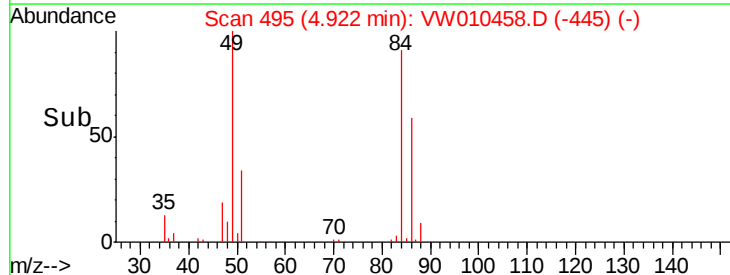
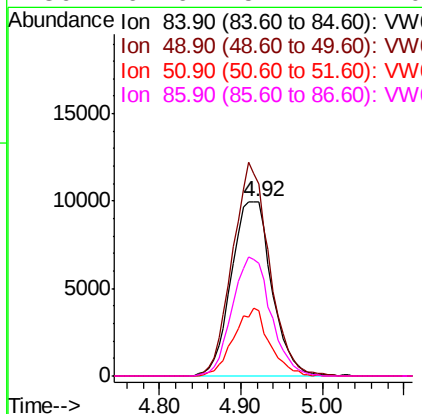
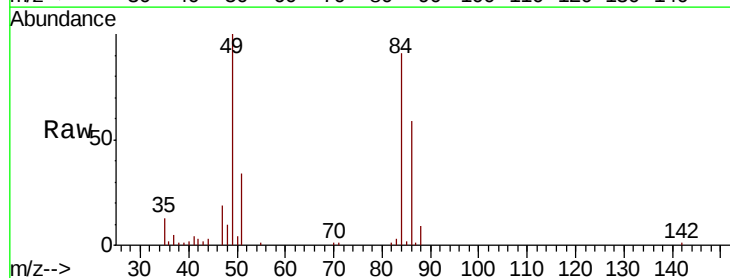
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

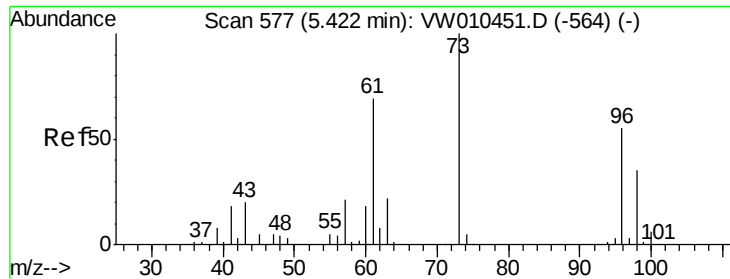
Tot Ion: 73 Resp: 74813
Ion Ratio Lower Upper
73 100
57 19.2 17.4 26.0



#20
Methylene Chloride
Concen: 17.873 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion: 84 Resp: 34360
Ion Ratio Lower Upper
84 100
49 110.0 87.2 130.8
51 37.6 27.7 41.5
86 64.6 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 20.149 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

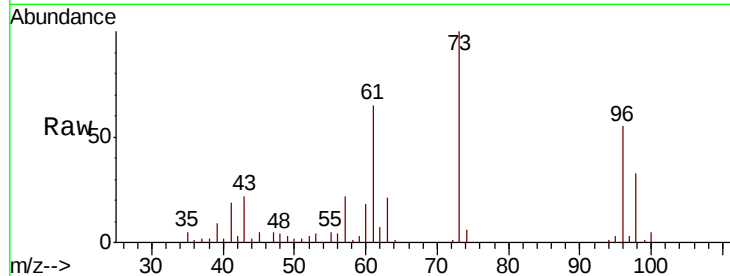
Tot Ion: 96 Resp: 32109

Ion Ratio Lower Upper

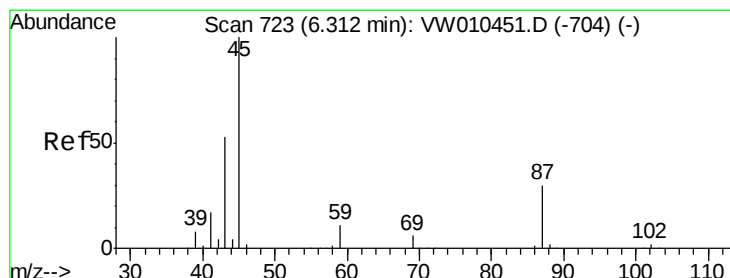
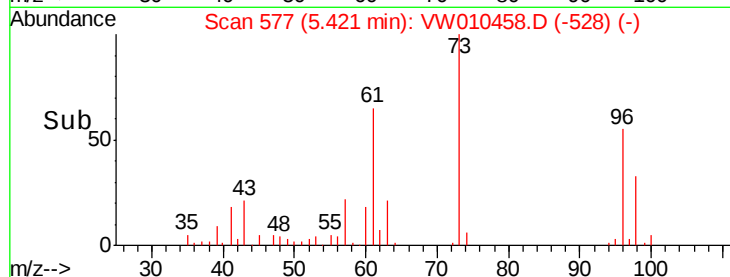
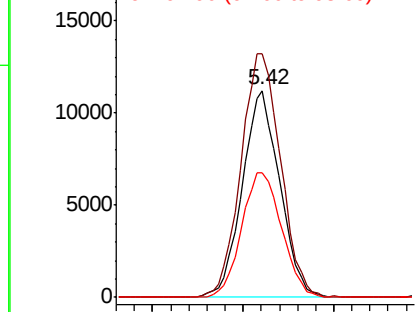
96 100

61 117.7 101.4 152.0

98 60.0 50.6 76.0



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



#22

Diisopropyl ether

Concen: 20.523 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Tgt Ion: 45 Resp: 84628

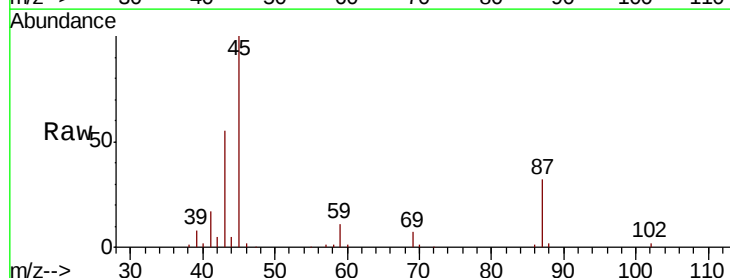
Ion Ratio Lower Upper

45 100

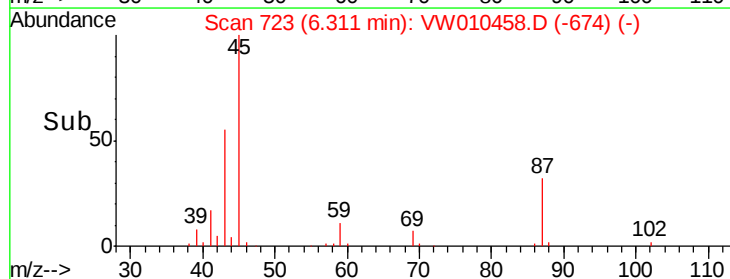
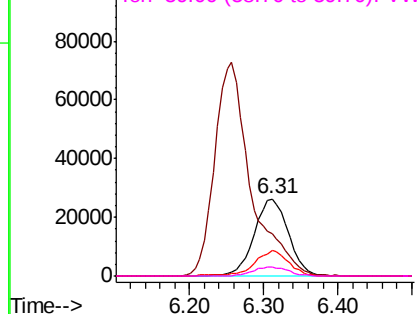
43 54.6 42.9 64.3

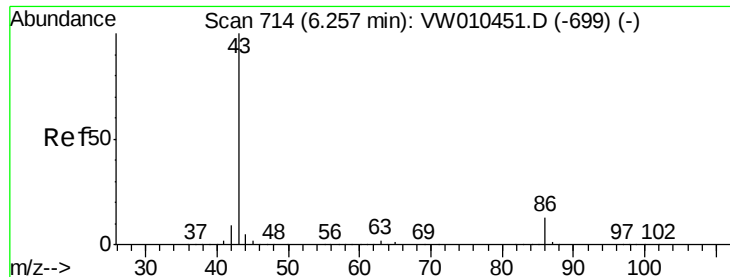
87 32.5 24.6 36.8

59 11.2 9.4 14.0



Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 99.460 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

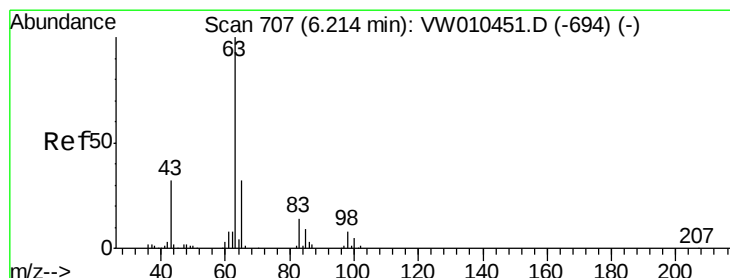
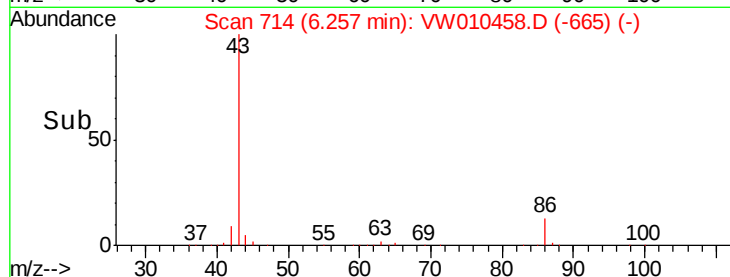
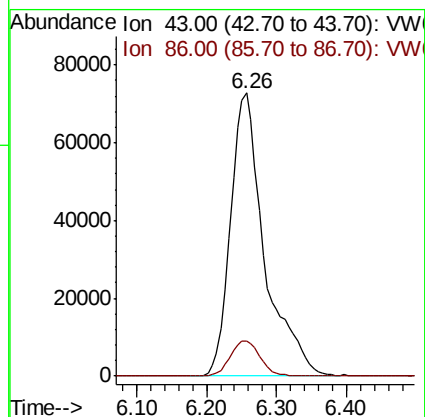
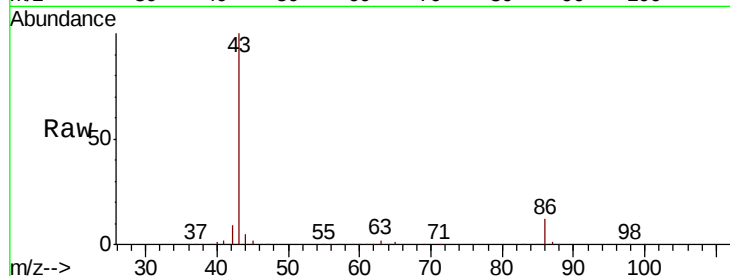
VW0520SBS01

Tot Ion: 43 Resp: 244982

Ion Ratio Lower Upper

43 100

86 12.5 10.3 15.5



#24

1,1-Dichloroethane

Concen: 20.306 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

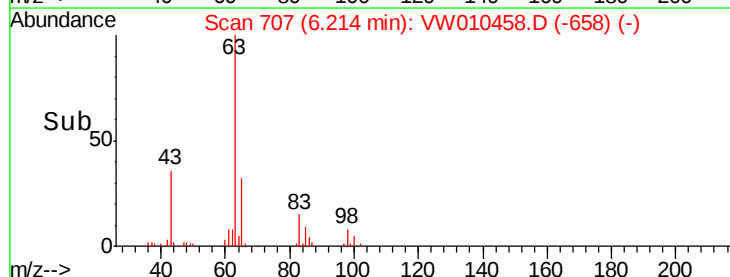
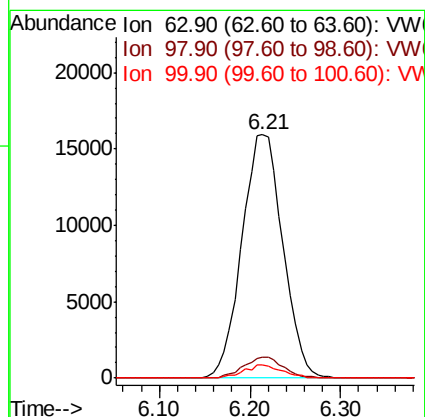
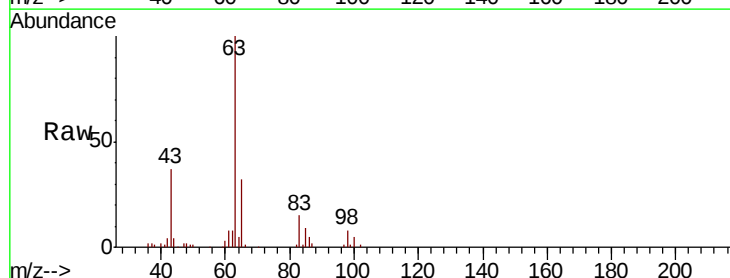
Tgt Ion: 63 Resp: 49967

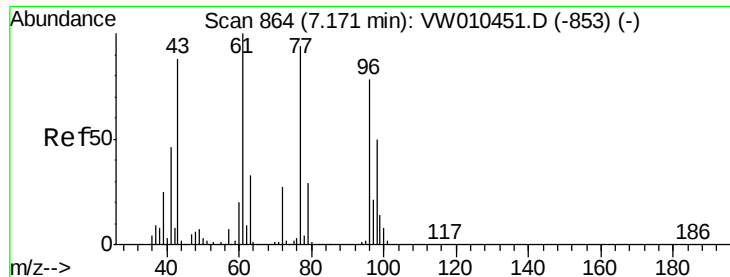
Ion Ratio Lower Upper

63 100

98 8.4 3.8 11.2

100 5.5 2.5 7.4





#25

2-Butanone

Concen: 106.231 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

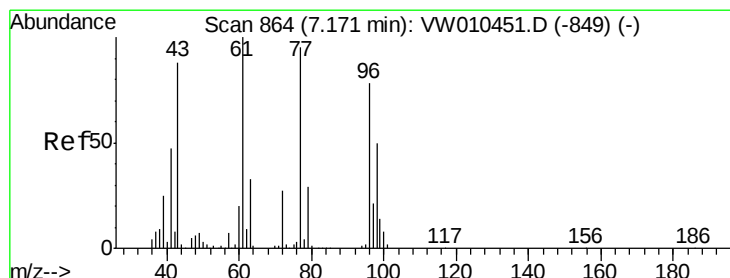
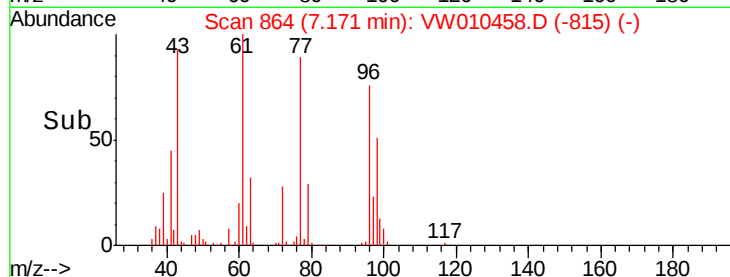
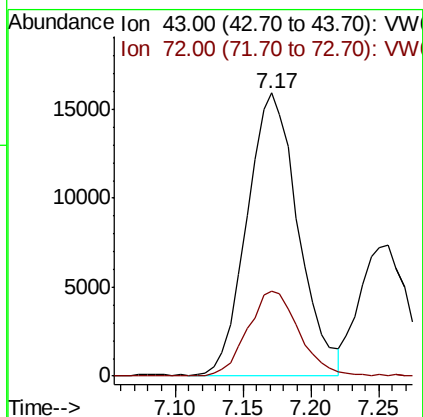
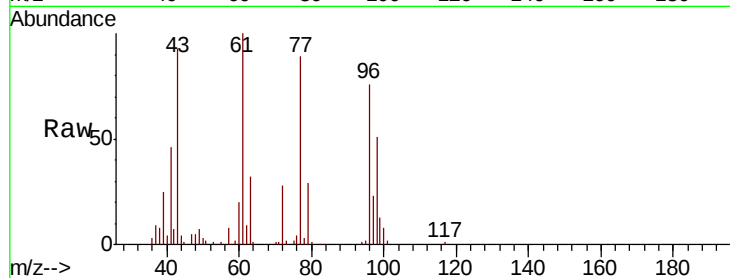
VW0520SBS01

Tot Ion: 43 Resp: 42129

Ion Ratio Lower Upper

43 100

72 29.9 24.1 36.1



#26

2,2-Dichloropropane

Concen: 19.354 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW010458.D

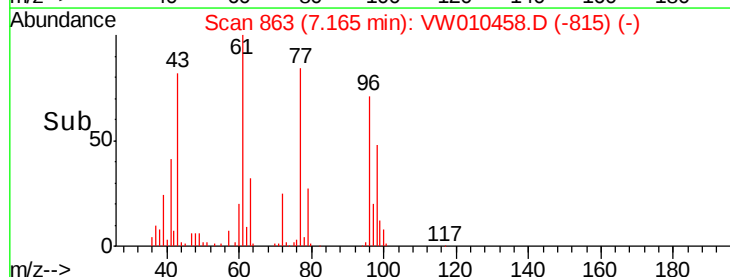
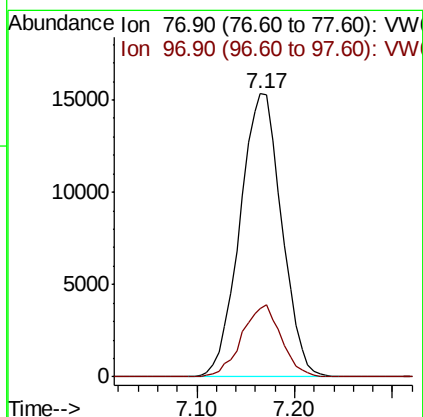
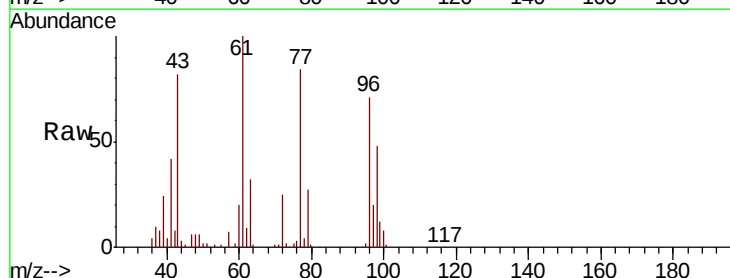
Acq: 20 May 2019 20:33

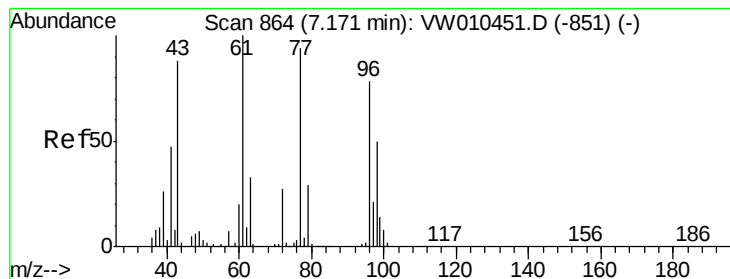
Tgt Ion: 77 Resp: 45364

Ion Ratio Lower Upper

77 100

97 24.1 11.7 35.0



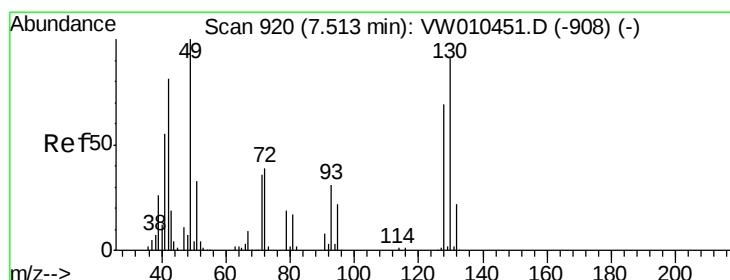
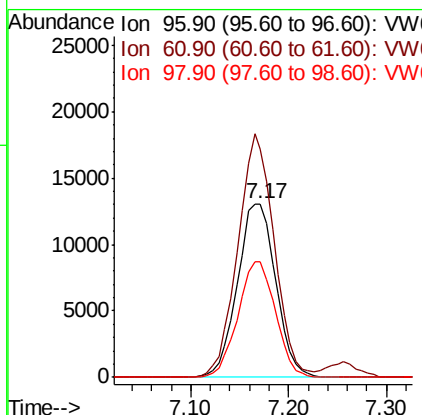
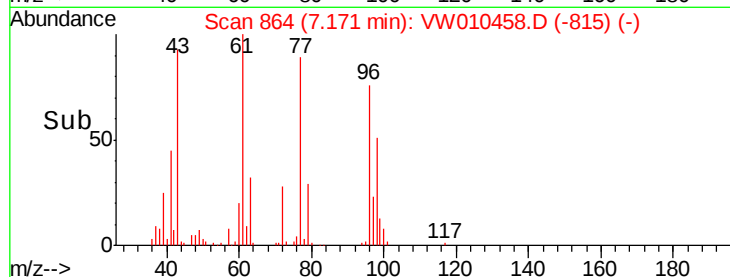
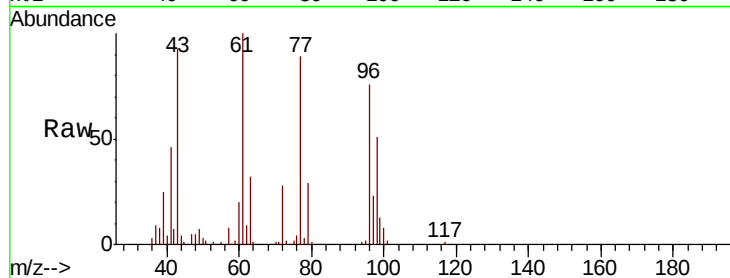


#27

cis-1,2-Dichloroethene
Concen: 20.514 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

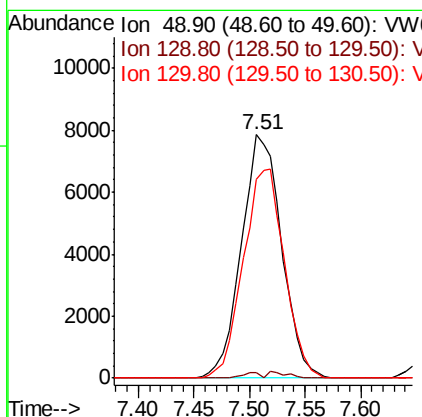
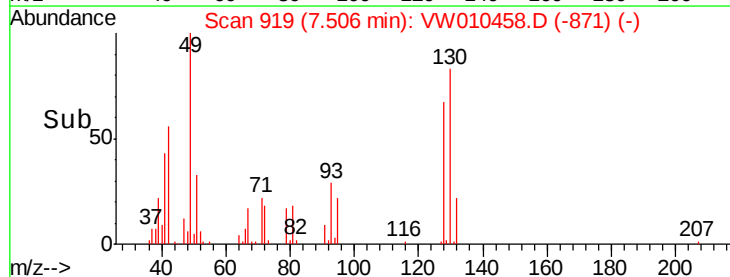
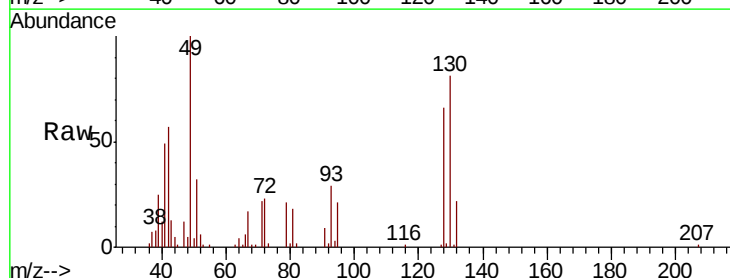
Tot Ion: 96 Resp: 35540
Ion Ratio Lower Upper
96 100
61 133.5 0.0 265.4
98 65.4 0.0 129.4

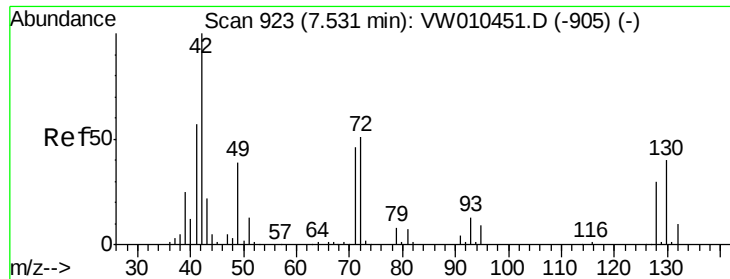


#28

Bromochloromethane
Concen: 22.399 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion: 49 Resp: 19734
Ion Ratio Lower Upper
49 100
129 0.9 0.0 4.8
130 0.0 71.2 106.8#

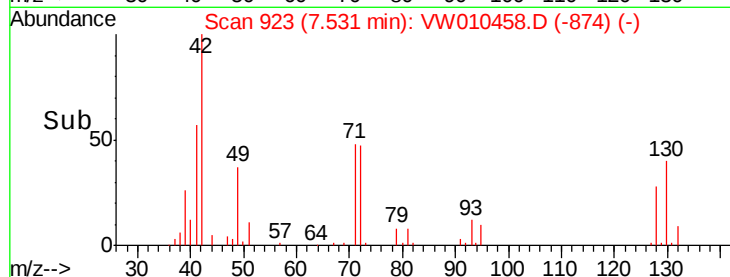
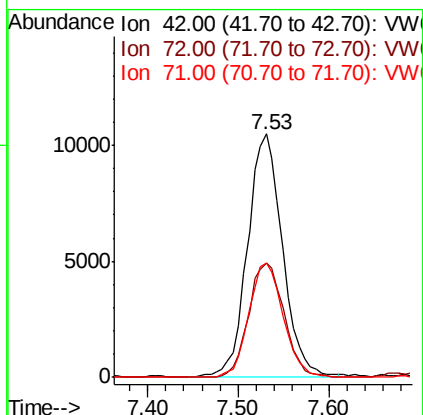
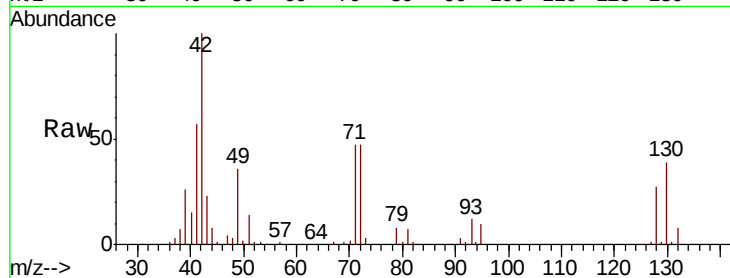




#29
Tetrahydrofuran
Concen: 104.514 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

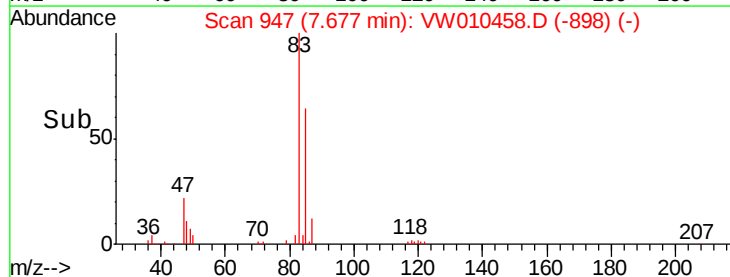
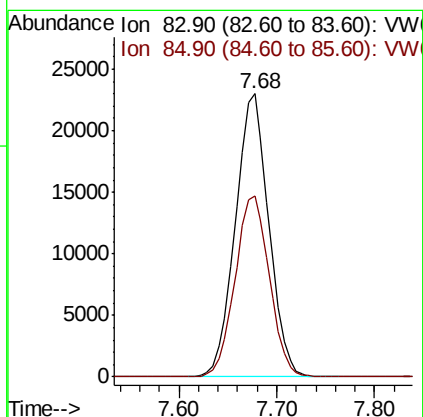
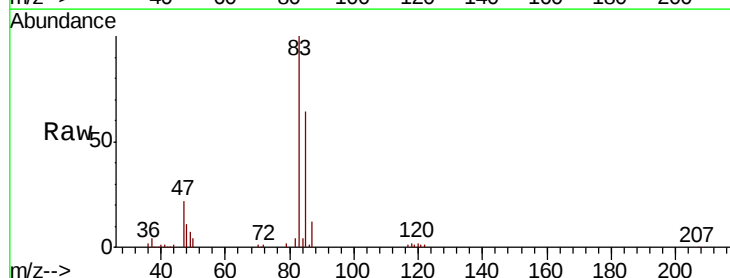
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

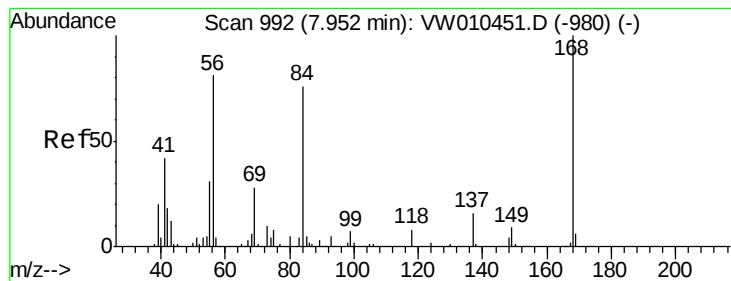
Tot Ion	Ratio	Lower	Upper
42	100		
72	47.5	38.5	57.7
71	46.0	36.5	54.7



#30
Chloroform
Concen: 20.532 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.2	78.4





#31

Cyclohexane

Concen: 19.155 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

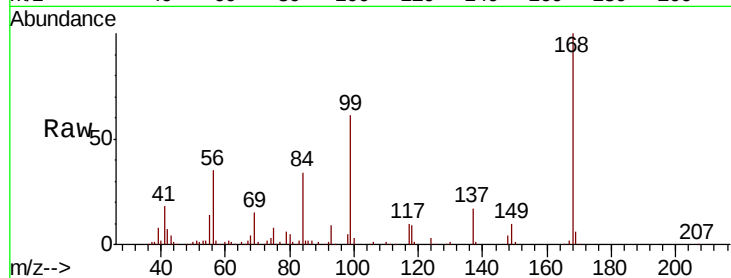
Tot Ion: 56 Resp: 49373

Ion Ratio Lower Upper

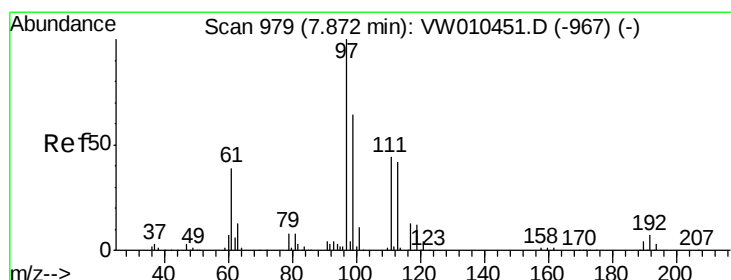
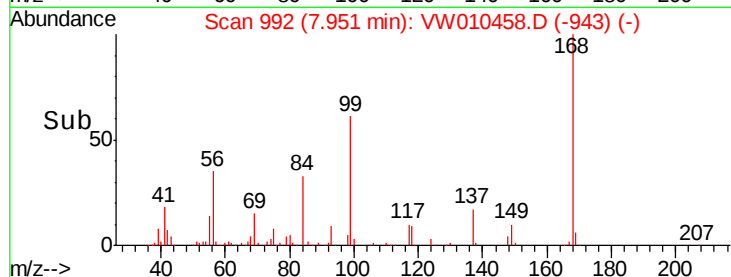
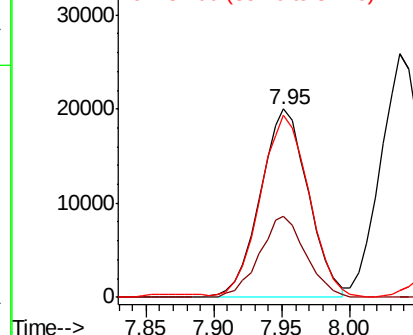
56 100

69 42.8 28.2 42.2#

84 95.3 75.8 113.8



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: 20.345 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

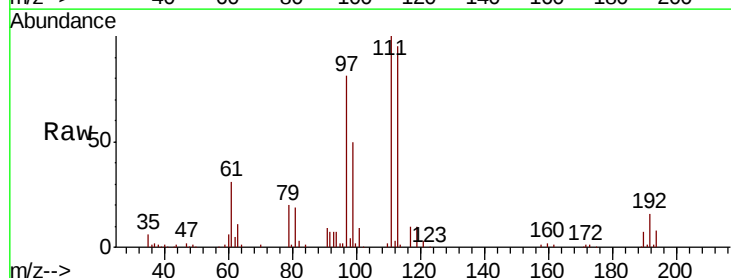
Tgt Ion: 97 Resp: 51611

Ion Ratio Lower Upper

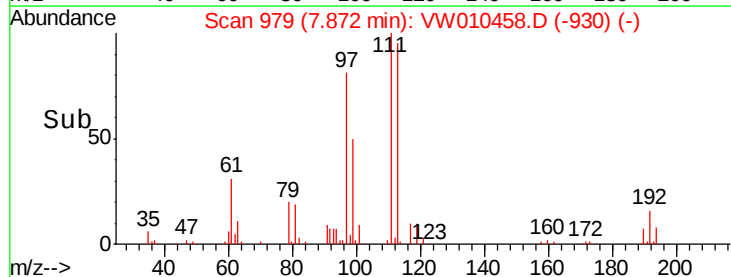
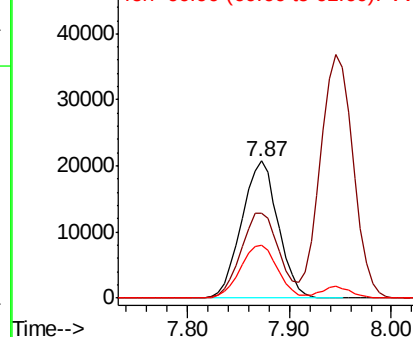
97 100

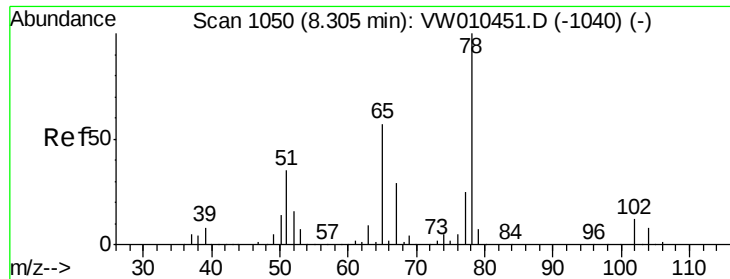
99 65.0 50.8 76.2

61 39.2 32.1 48.1



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

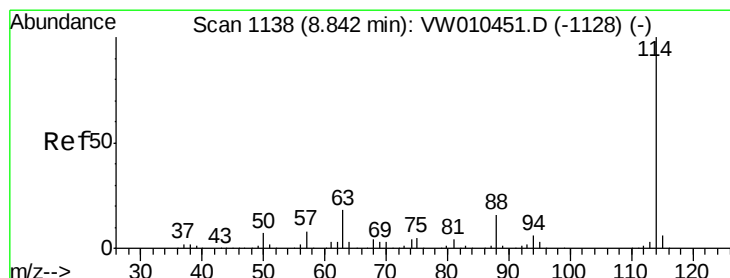
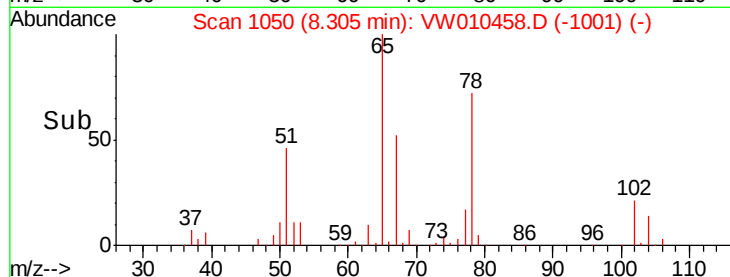
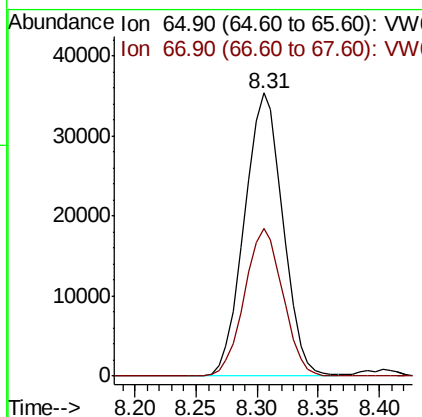
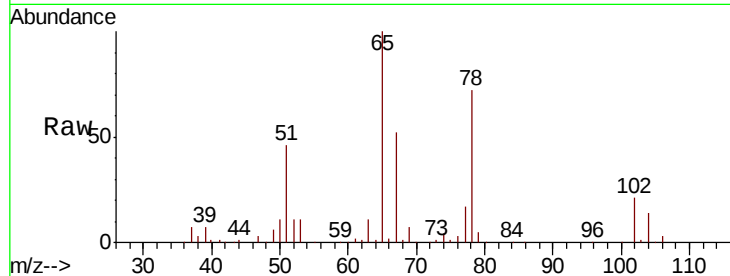




#33
 1,2-Dichloroethane-d4
 Concen: 57.035 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

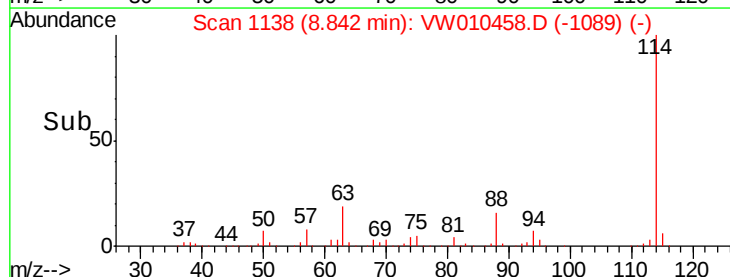
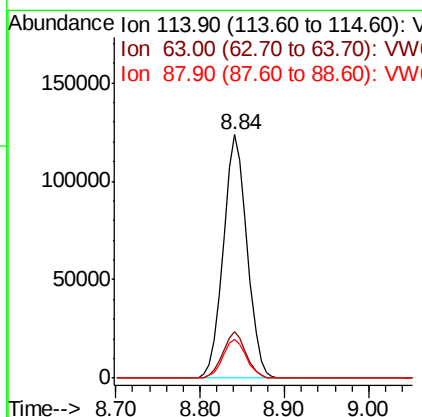
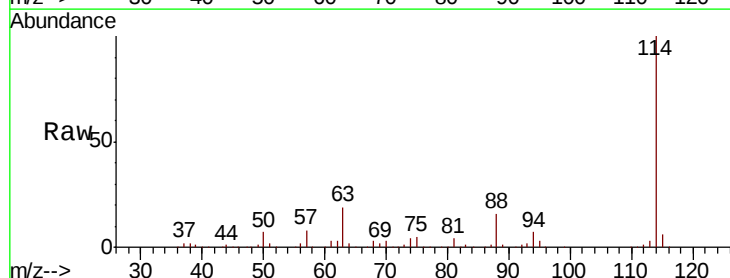
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

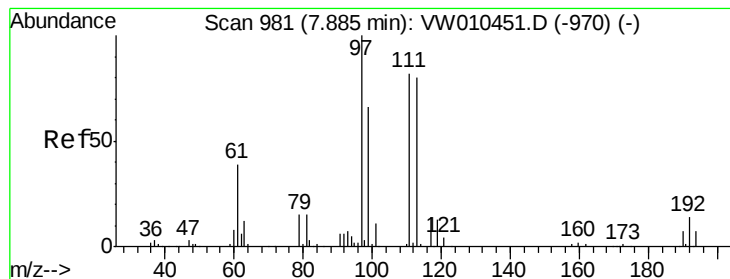
Tot Ion: 65 Resp: 77431
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion: 114 Resp: 238761
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 36.0
 88 15.8 0.0 32.0





#35

Dibromofluoromethane

Concen: 52.559 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

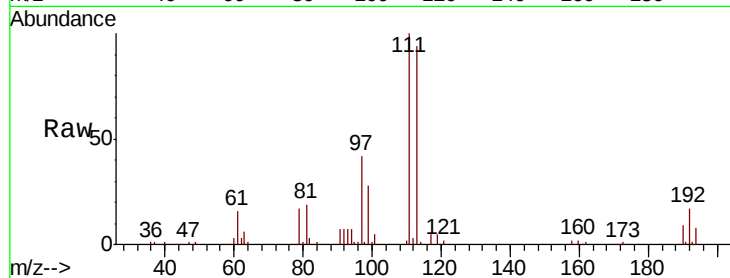
Tot Ion:113 Resp: 76145

Ion Ratio Lower Upper

113 100

111 105.4 82.2 123.4

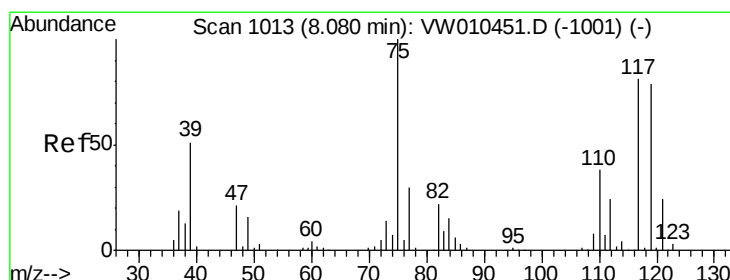
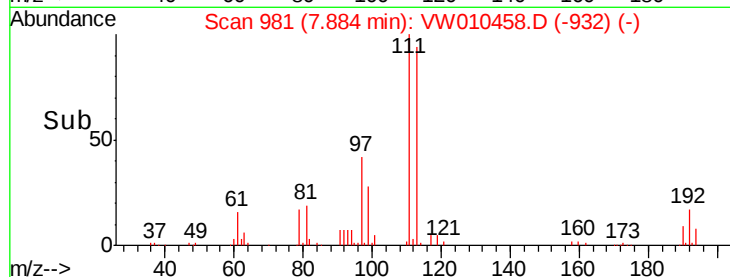
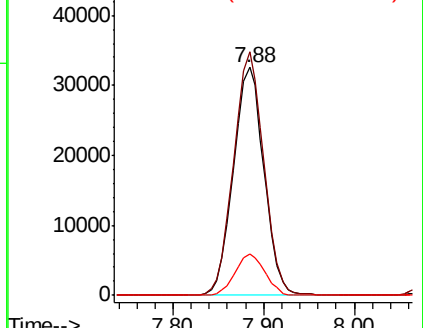
192 17.6 14.3 21.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.061 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

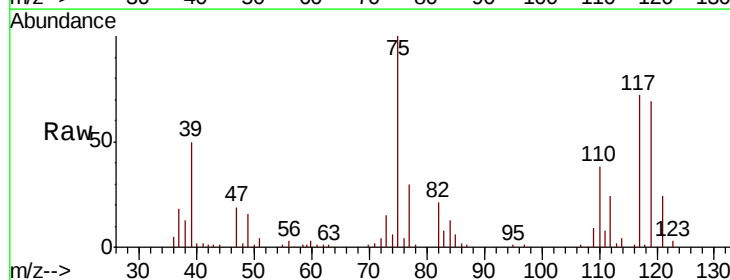
Tgt Ion: 75 Resp: 42396

Ion Ratio Lower Upper

75 100

110 38.0 19.2 57.6

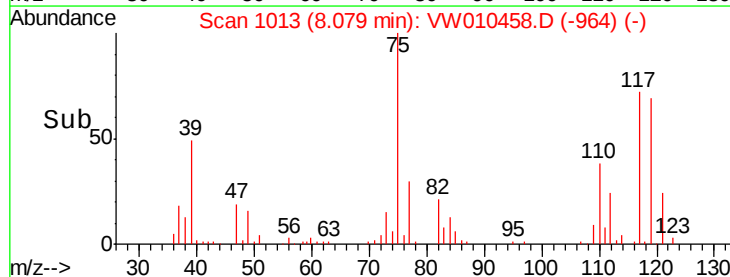
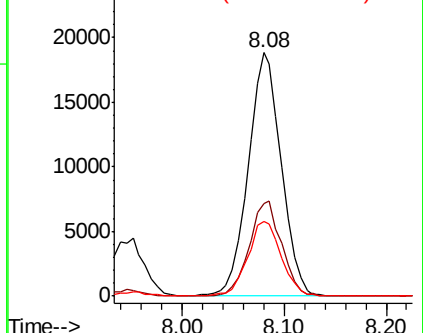
77 31.1 25.2 37.8

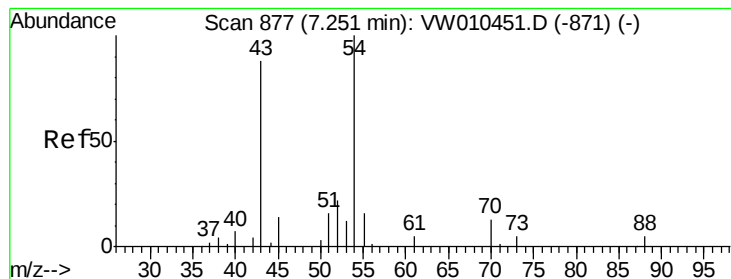


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 20.243 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleID :

VW0520SBS01

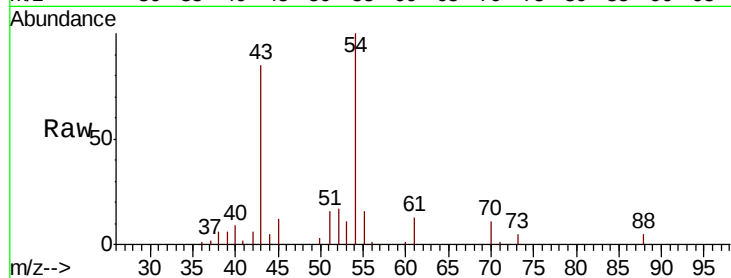
Tot Ion: 43 Resp: 19146

Ion Ratio Lower Upper

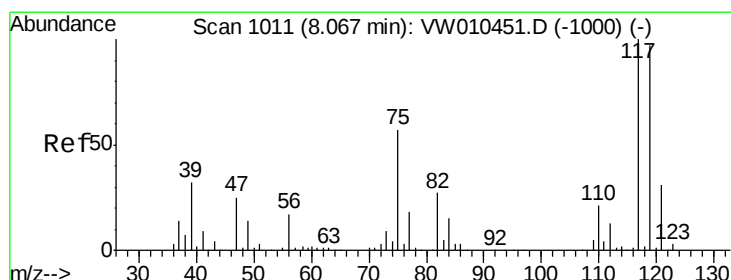
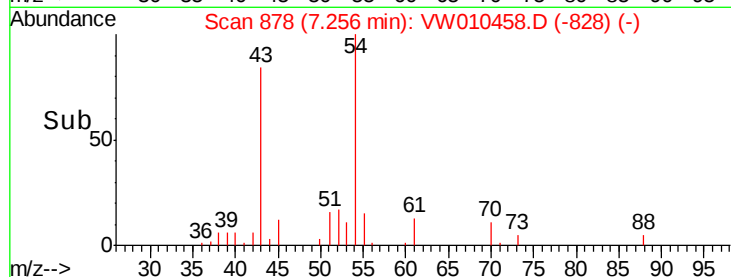
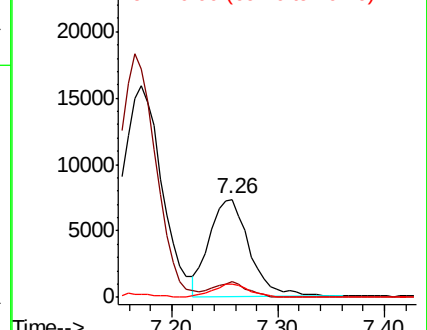
43 100

61 13.6 11.2 16.8

70 12.6 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 18.932 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

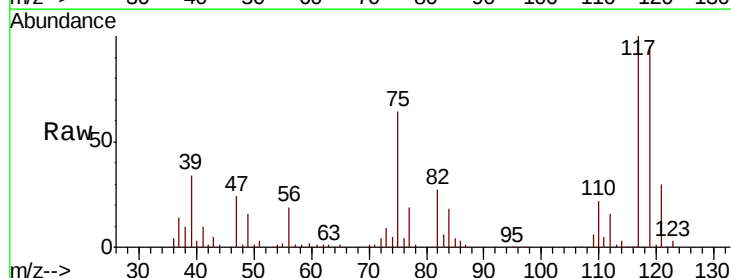
Tgt Ion: 117 Resp: 45423

Ion Ratio Lower Upper

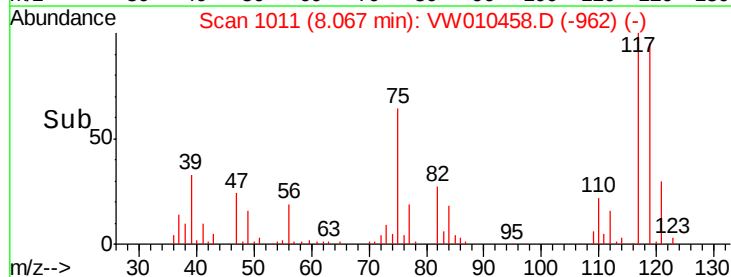
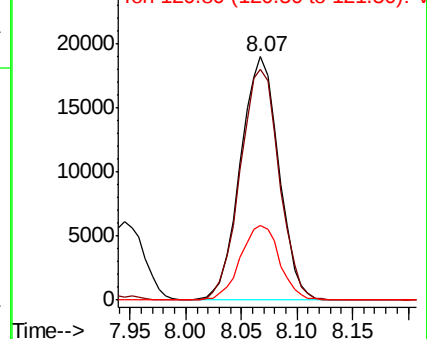
117 100

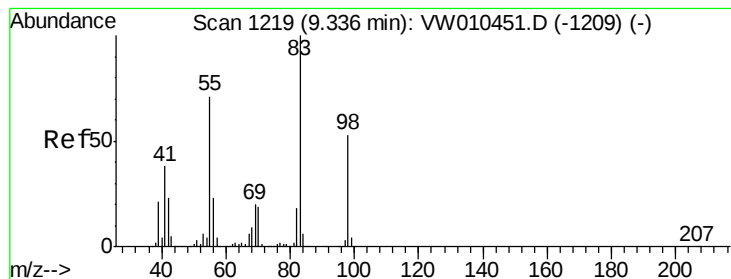
119 94.9 77.4 116.0

121 30.5 25.0 37.6



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





#39

Methvlcvclohexane

Concen: 18.855 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

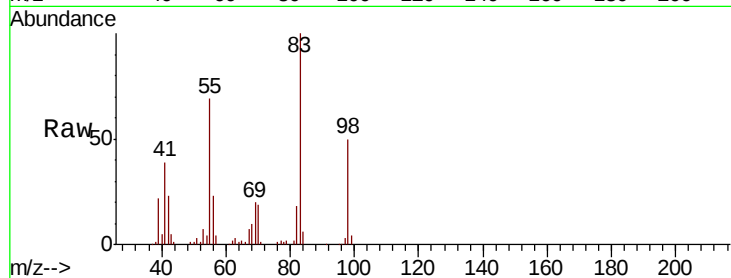
Tot Ion: 83 Resp: 56185

Ion Ratio Lower Upper

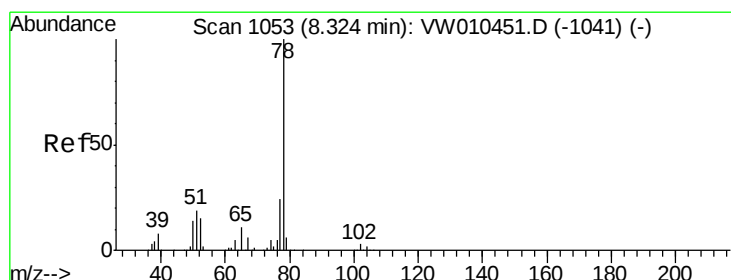
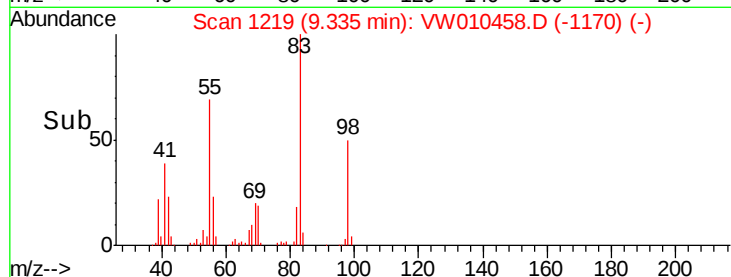
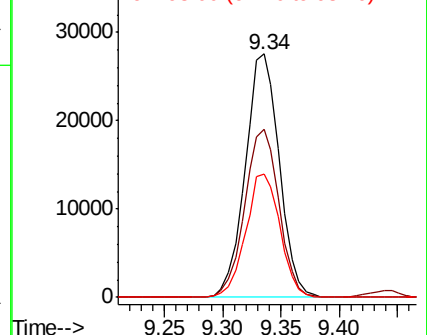
83 100

55 68.9 57.0 85.6

98 50.4 42.0 63.0



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



#40

Benzene

Concen: 19.646 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW010458.D

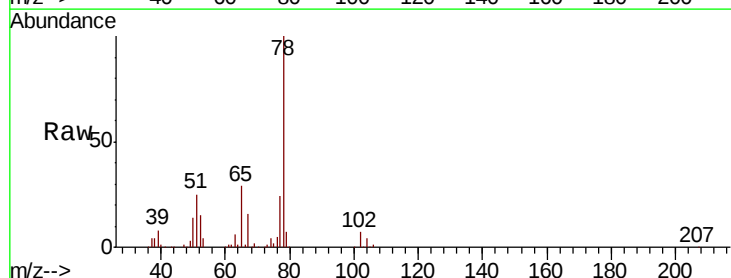
Acq: 20 May 2019 20:33

Tgt Ion: 78 Resp: 121454

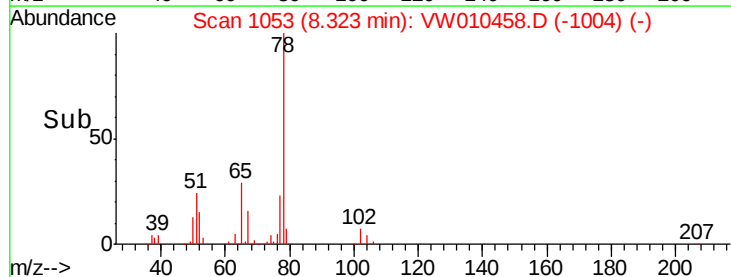
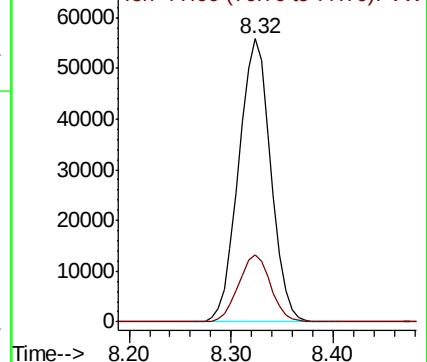
Ion Ratio Lower Upper

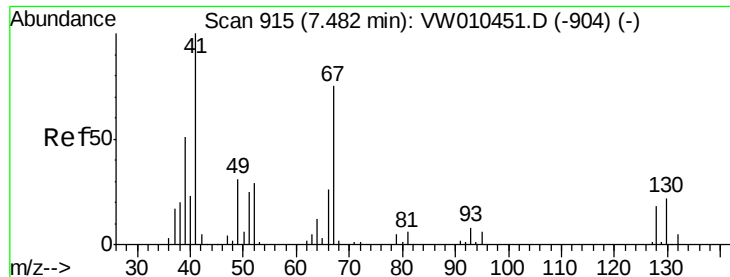
78 100

77 23.6 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW





#41

Methacrylonitrile

Concen: 16.235 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

Tot Ion: 41 Resp: 9124

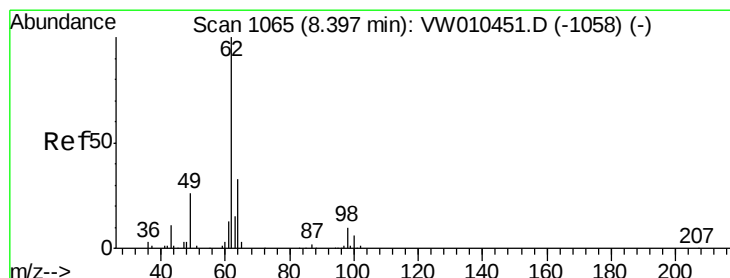
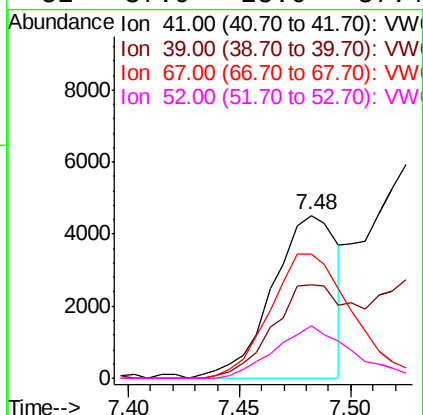
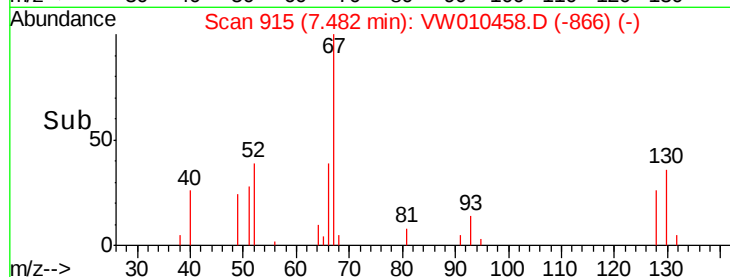
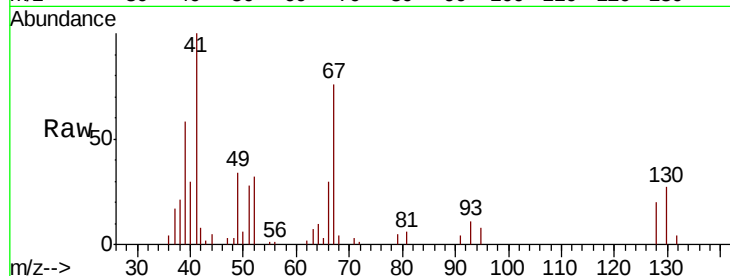
Ion Ratio Lower Upper

41 100

39 73.2 47.4 71.2#

67 96.3 65.5 98.3

52 37.9 25.0 37.4#



#42

1,2-Dichloroethane

Concen: 20.239 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW010458.D

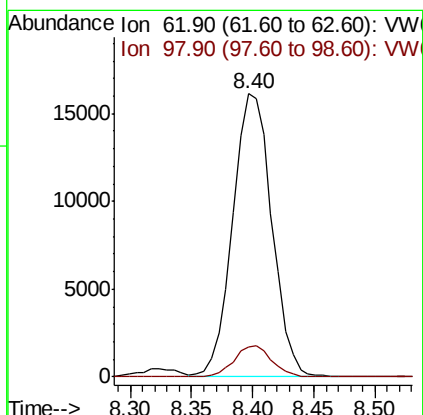
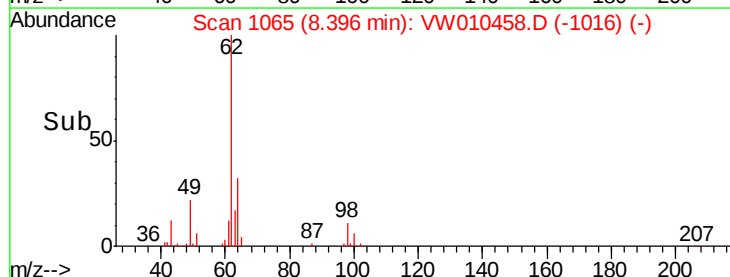
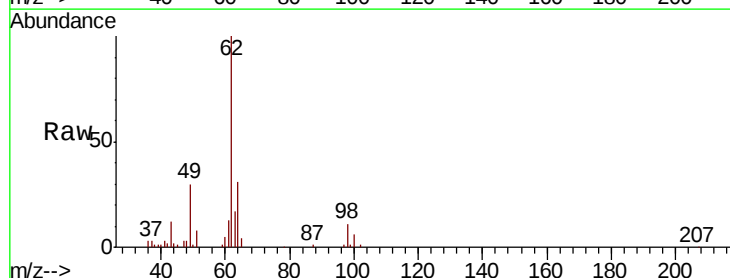
Acq: 20 May 2019 20:33

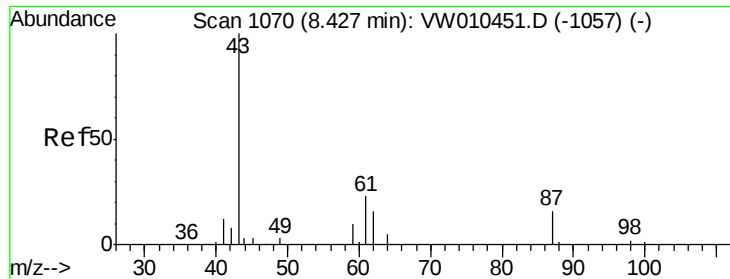
Tgt Ion: 62 Resp: 35760

Ion Ratio Lower Upper

62 100

98 10.6 0.0 21.0





#43

Isopropyl Acetate

Concen: 20.186 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

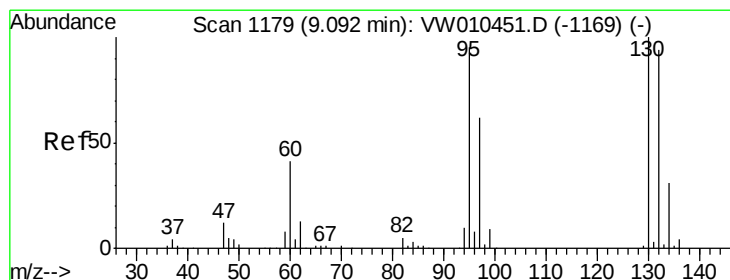
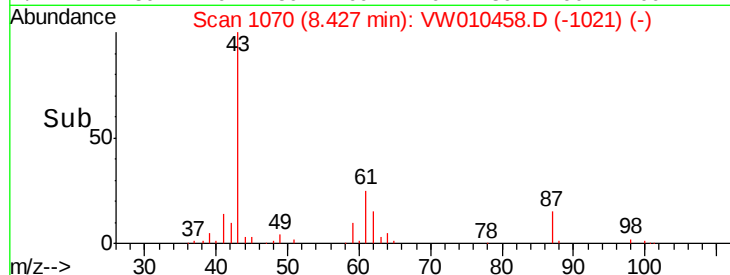
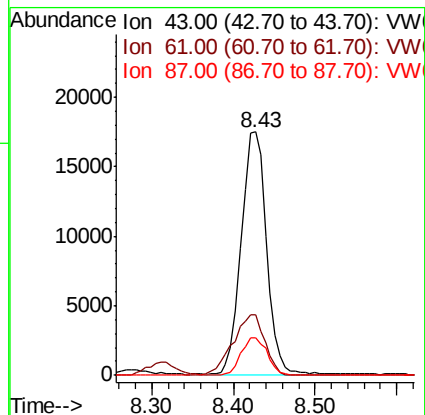
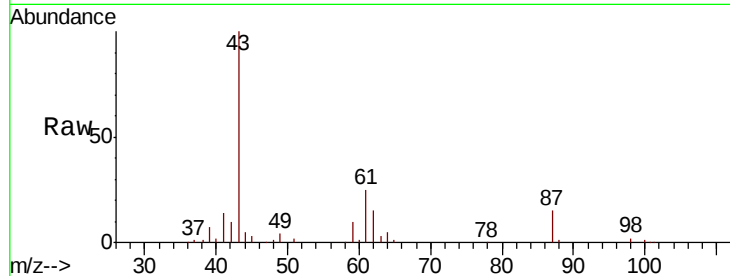
Tot Ion: 43 Resp: 38142

Ion Ratio Lower Upper

43 100

61 30.9 25.4 38.2

87 15.7 12.7 19.1



#44

Trichloroethene

Concen: 19.318 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW010458.D

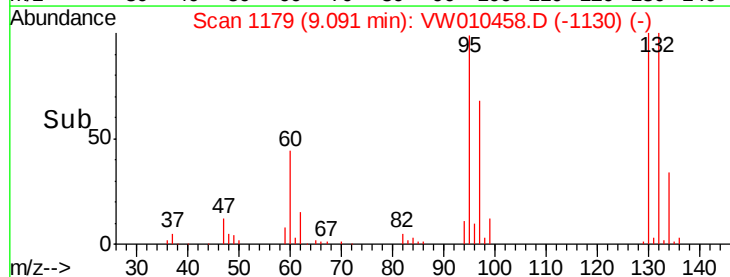
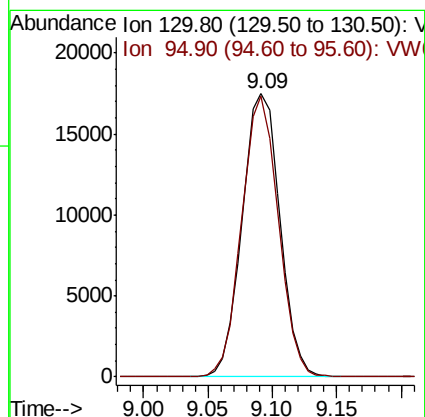
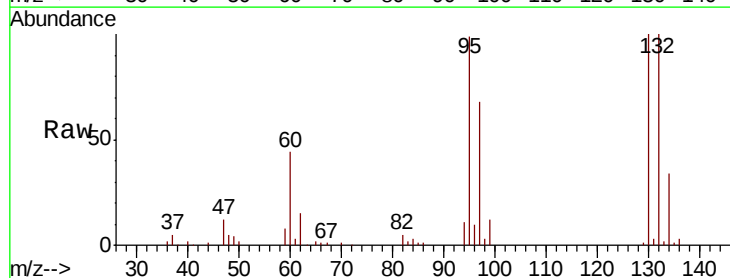
Acq: 20 May 2019 20:33

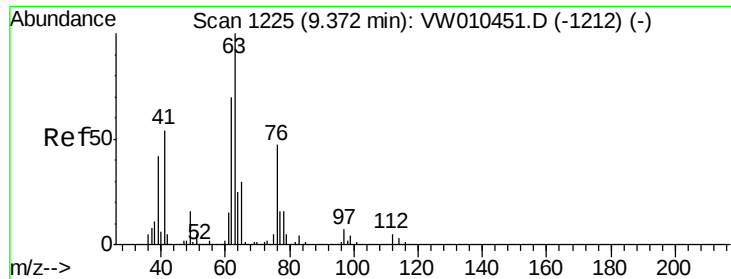
Tgt Ion: 130 Resp: 35454

Ion Ratio Lower Upper

130 100

95 99.3 0.0 189.6

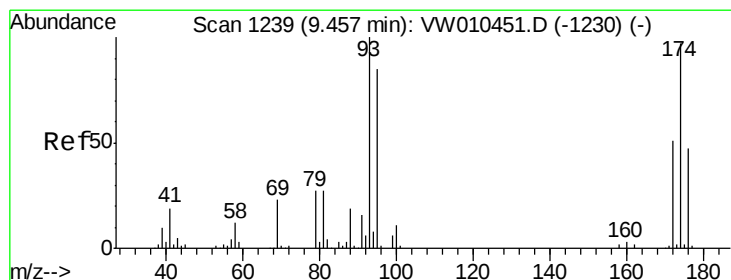
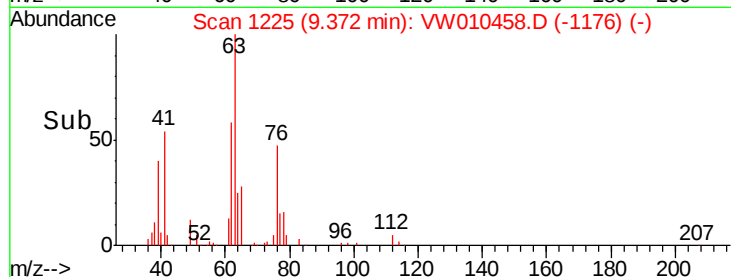
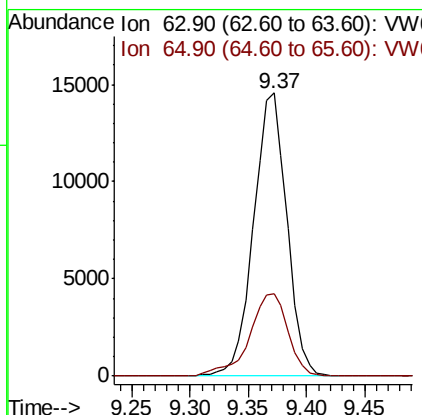
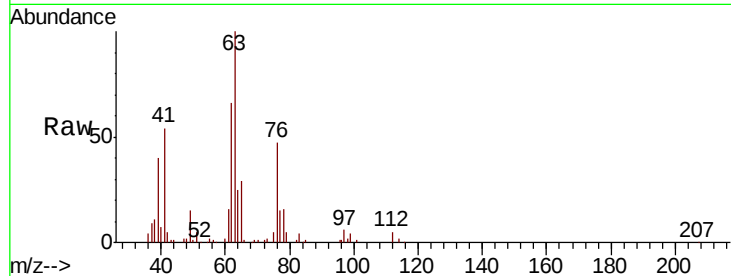




#45
 1,2-Dichloropropane
 Concen: 19.729 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

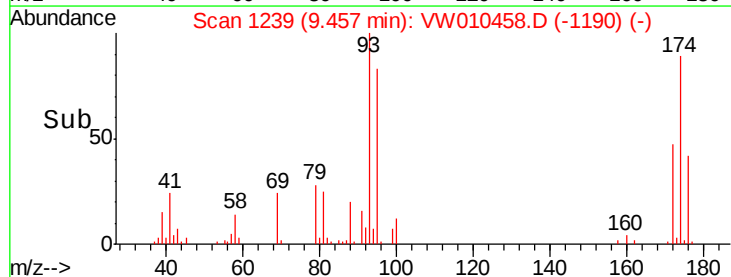
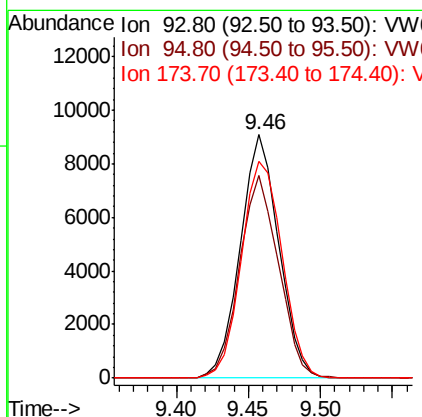
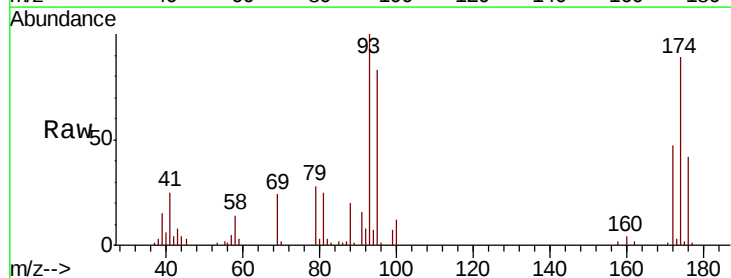
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

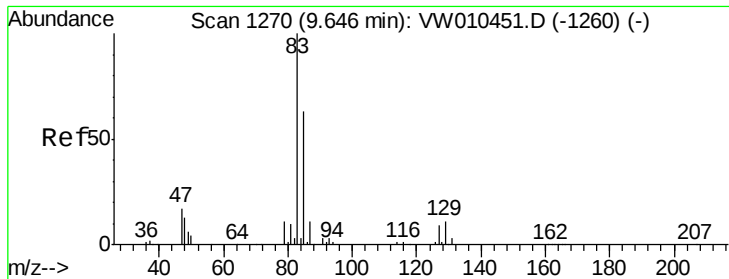
Tot Ion: 63 Resp: 28967
 Ion Ratio Lower Upper
 63 100
 65 29.1 24.3 36.5



#46
 Dibromomethane
 Concen: 19.652 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion: 93 Resp: 16874
 Ion Ratio Lower Upper
 93 100
 95 83.9 66.1 99.1
 174 93.6 77.1 115.7





#47

Bromodichloromethane

Concen: 19.623 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

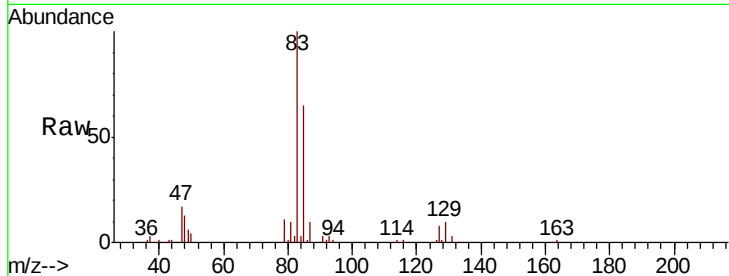
Tot Ion: 83 Resp: 42342

Ion Ratio Lower Upper

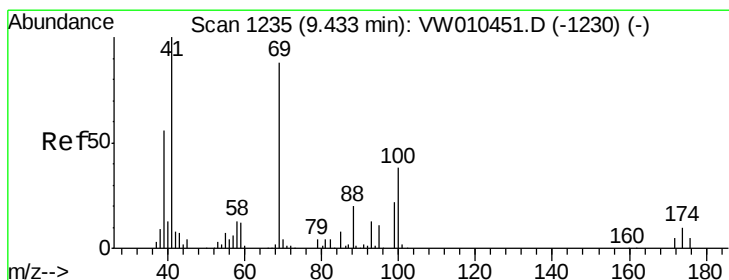
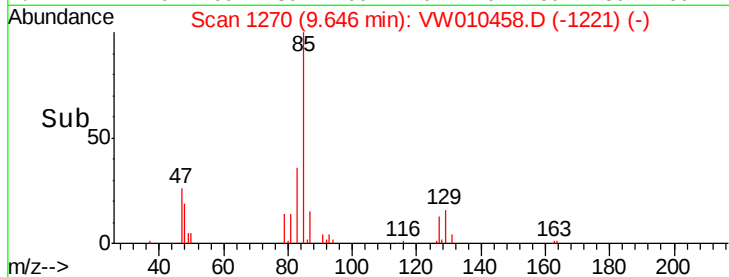
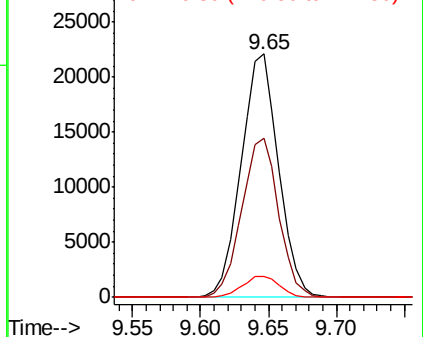
83 100

85 65.3 50.4 75.6

127 8.3 7.4 11.0



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.147 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

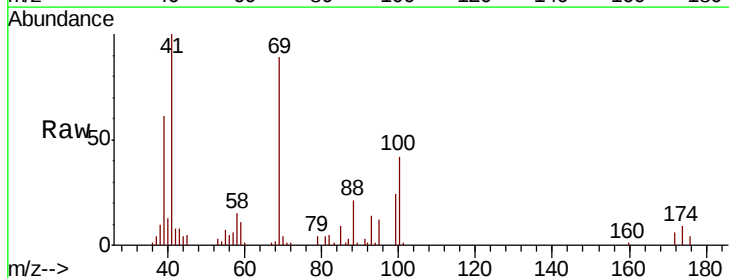
Tgt Ion: 41 Resp: 16552

Ion Ratio Lower Upper

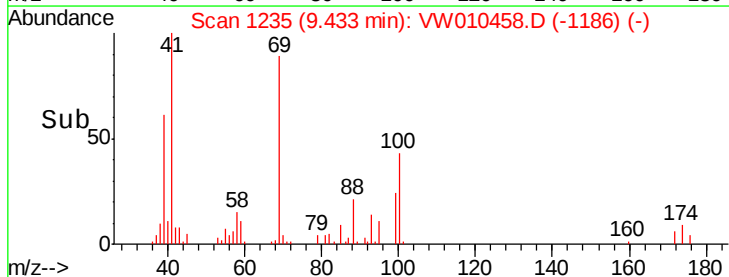
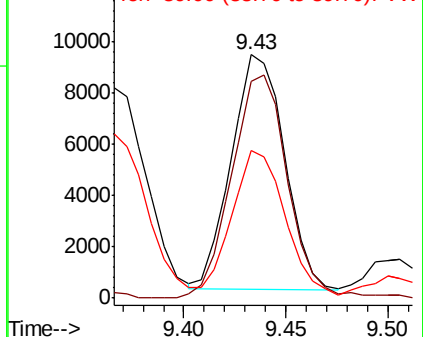
41 100

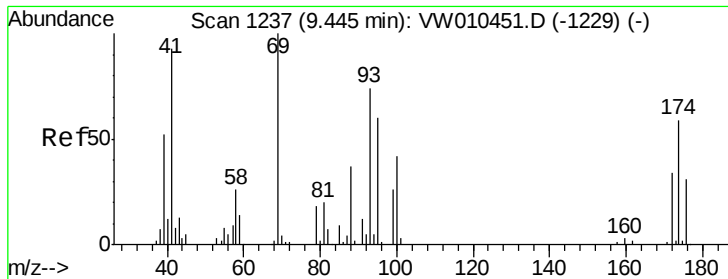
69 101.0 77.6 116.4

39 64.5 49.8 74.8



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 420.493 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

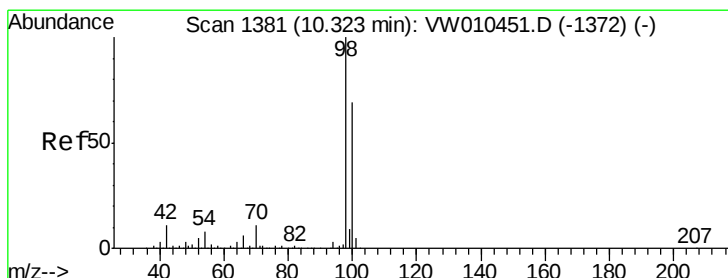
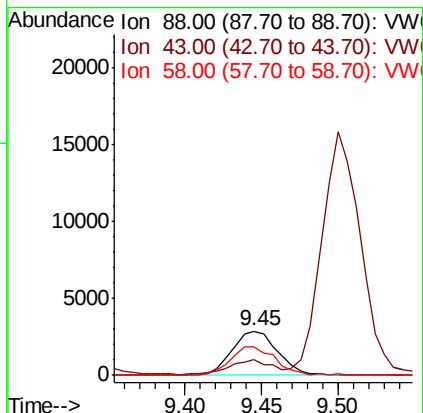
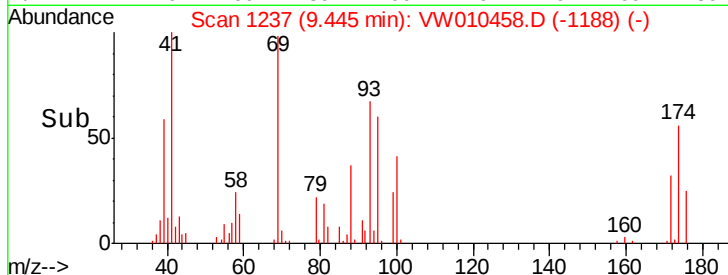
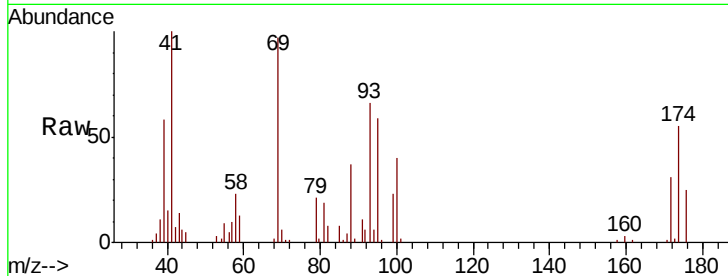
Tot Ion: 88 Resp: 5898

Ion Ratio Lower Upper

88 100

43 34.4 25.9 38.9

58 65.3 52.7 79.1



#50

Toluene-d8

Concen: 53.504 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010458.D

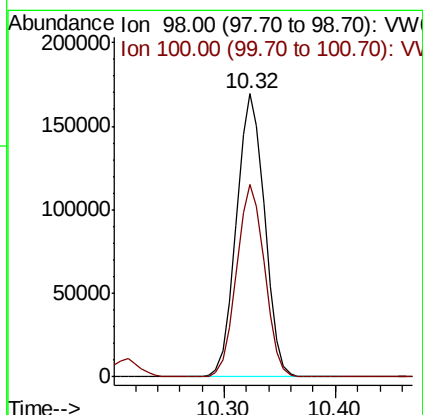
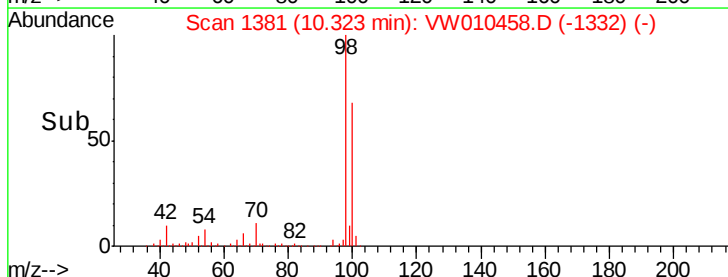
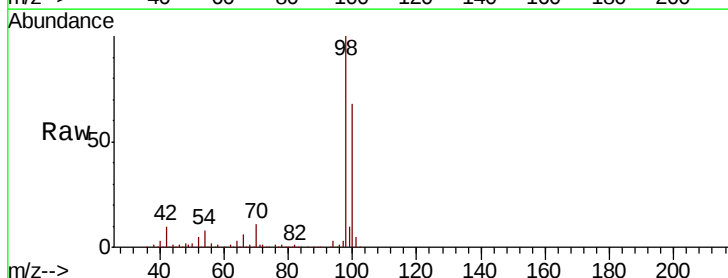
Acq: 20 May 2019 20:33

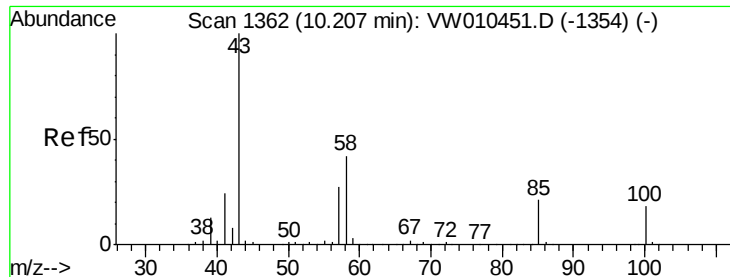
Tgt Ion: 98 Resp: 296121

Ion Ratio Lower Upper

98 100

100 67.6 53.7 80.5





#51

4-Methyl-2-Pentanone

Concen: 100.558 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

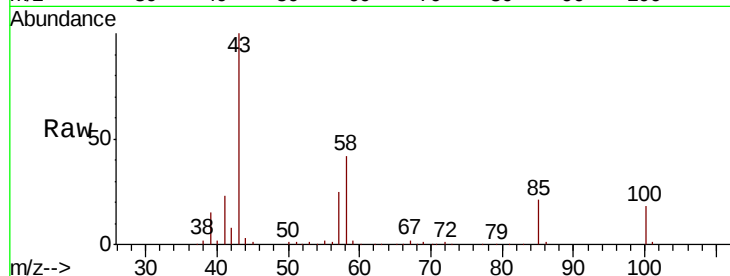
VW0520SBS01

Tot Ion: 43 Resp: 96282

Ion Ratio Lower Upper

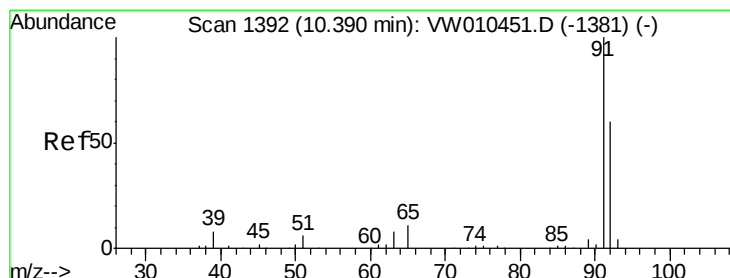
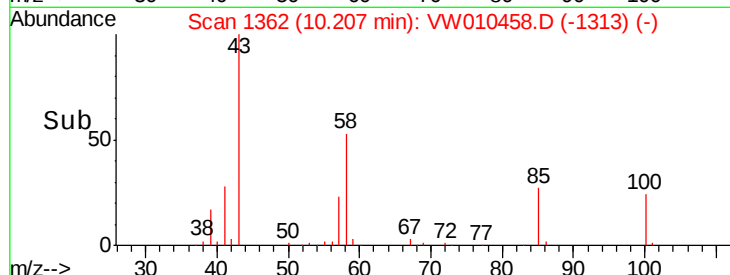
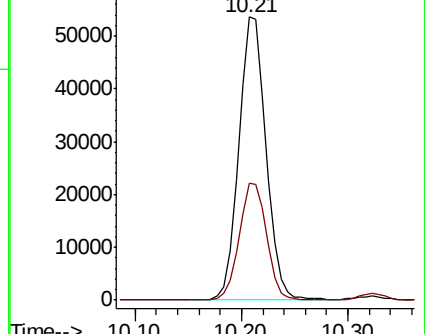
43 100

58 41.7 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 19.975 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010458.D

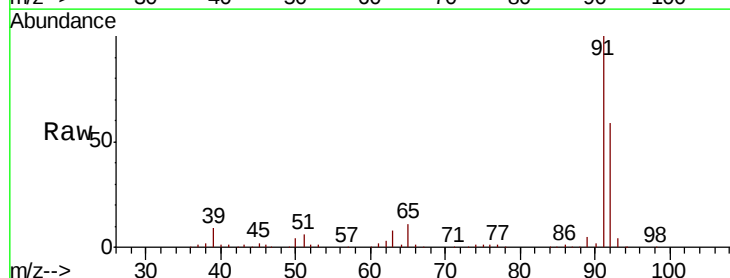
Acq: 20 May 2019 20:33

Tgt Ion: 92 Resp: 82928

Ion Ratio Lower Upper

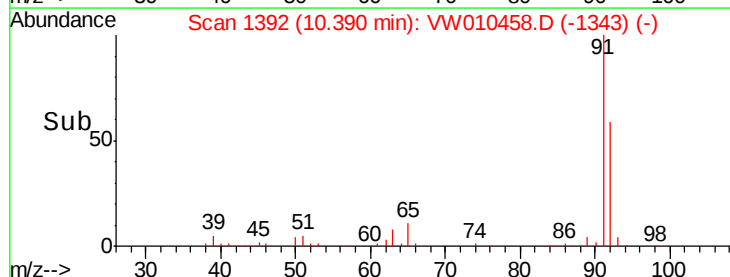
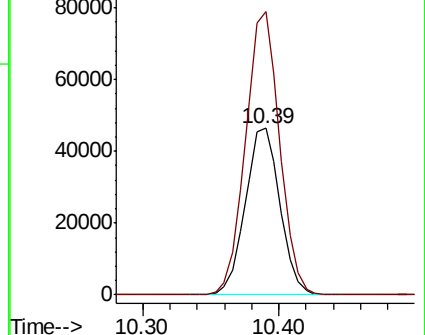
92 100

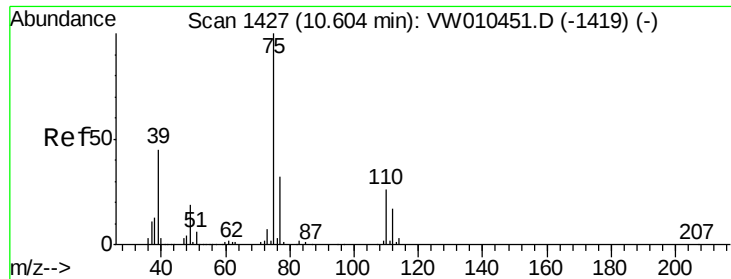
91 167.0 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 19.060 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampled :

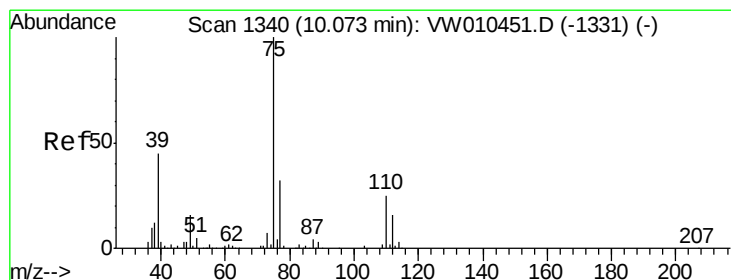
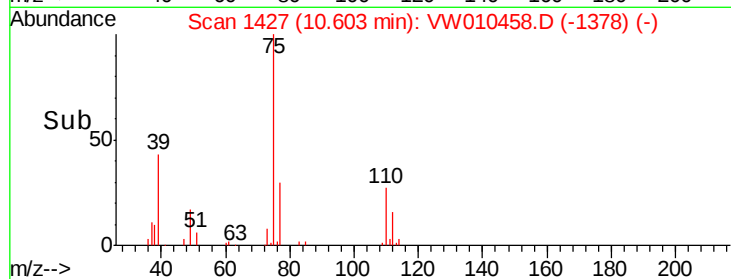
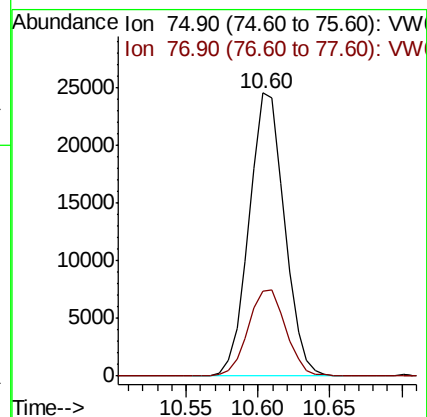
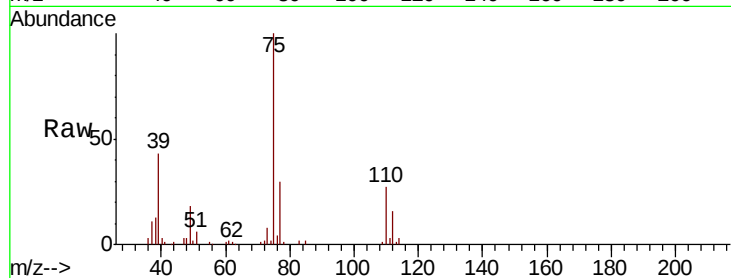
VW0520SBS01

Tot Ion: 75 Resp: 41652

Ion Ratio Lower Upper

75 100

77 30.1 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 19.543 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

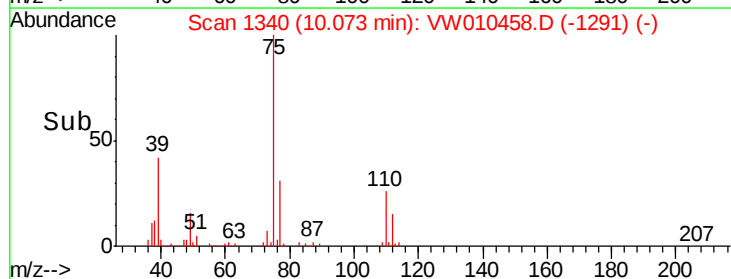
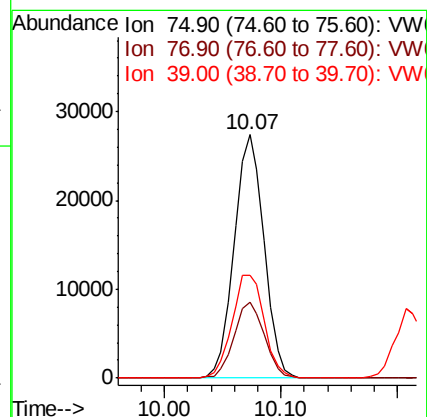
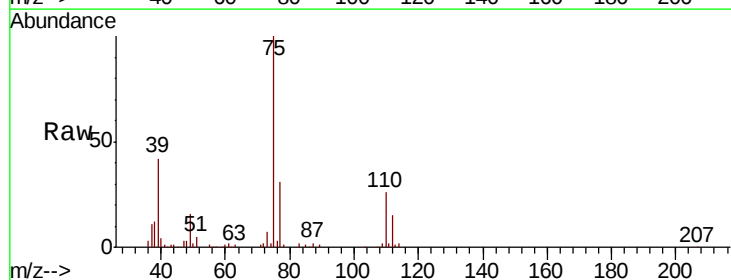
Tgt Ion: 75 Resp: 48775

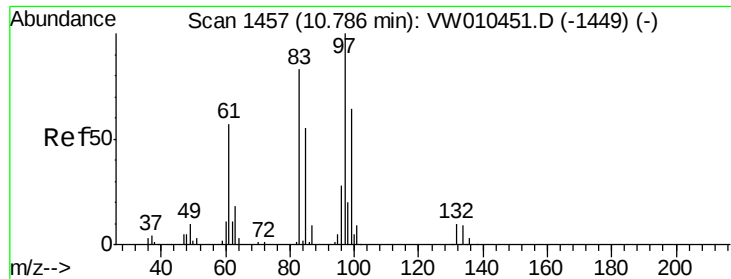
Ion Ratio Lower Upper

75 100

77 31.0 25.7 38.5

39 41.8 36.2 54.4

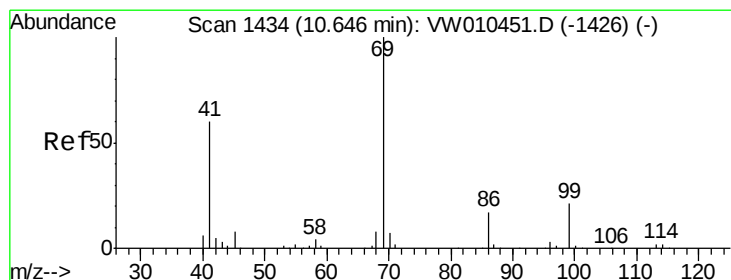
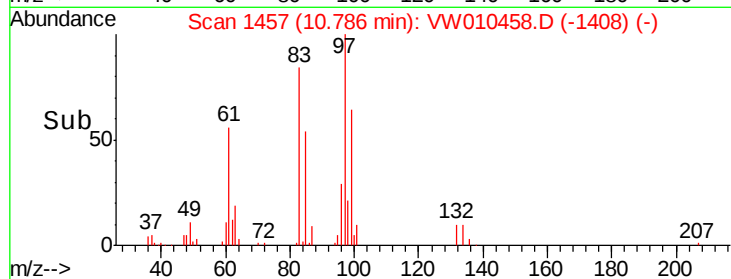
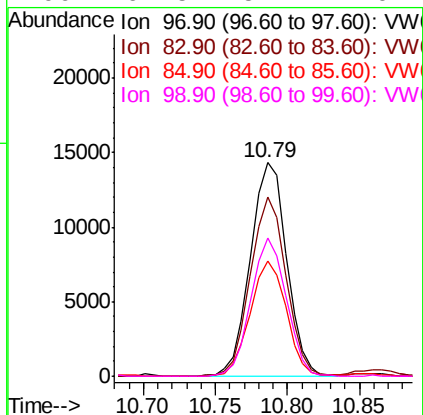
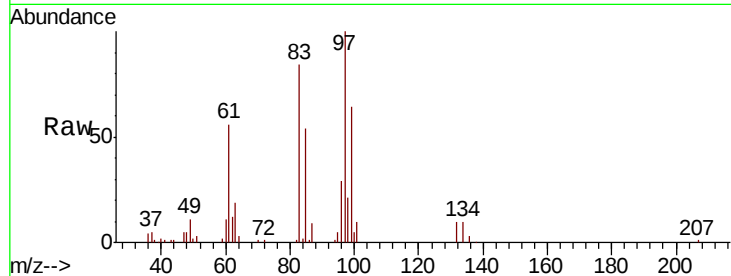




#55
 1,1,2-Trichloroethane
 Concen: 20.301 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

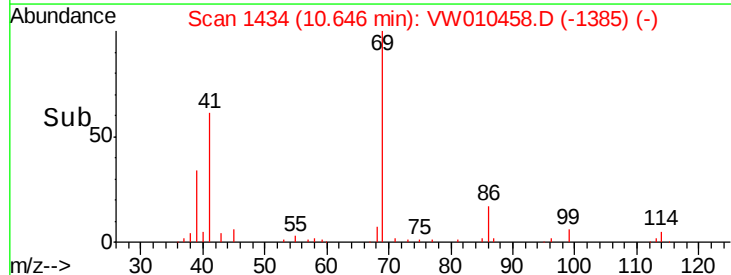
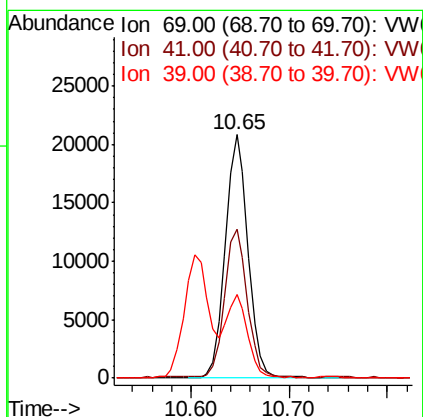
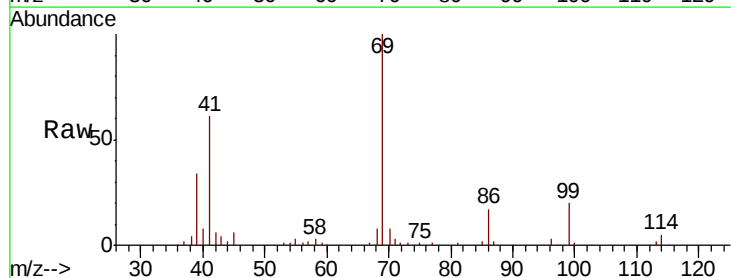
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

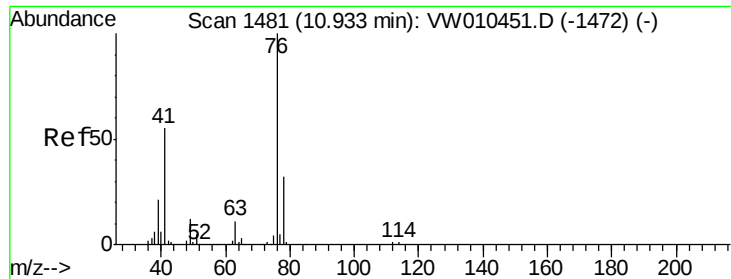
Tot Ion:	97	Resp:	25066
Ion	Ratio	Lower	Upper
97	100		
83	84.1	66.1	99.1
85	53.7	44.2	66.4
99	64.5	51.1	76.7



#56
 Ethyl methacrylate
 Concen: 19.705 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion:	69	Resp:	33556
Ion	Ratio	Lower	Upper
69	100		
41	62.9	47.7	71.5
39	32.7	25.3	37.9

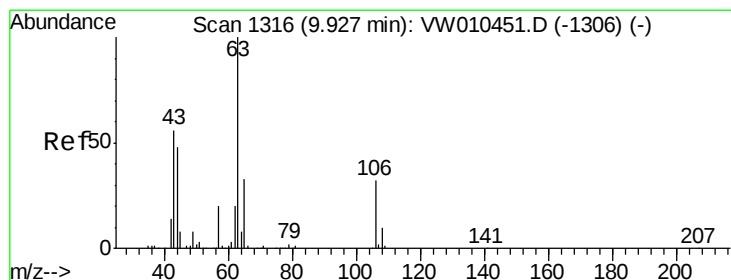
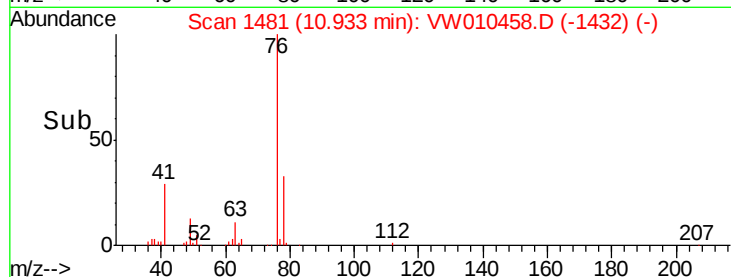
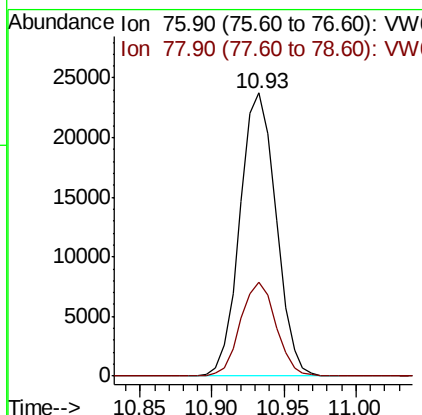
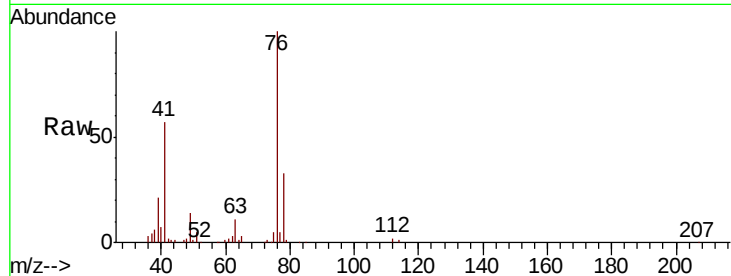




#57
 1,3-Dichloropropane
 Concen: 20.004 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

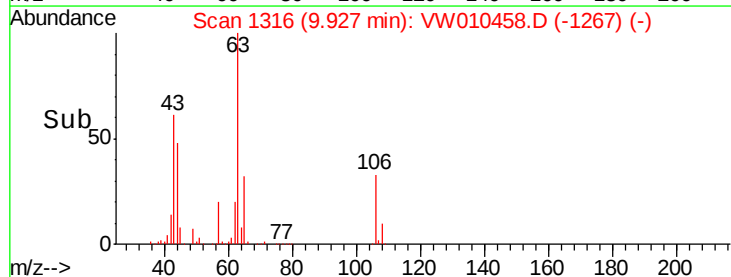
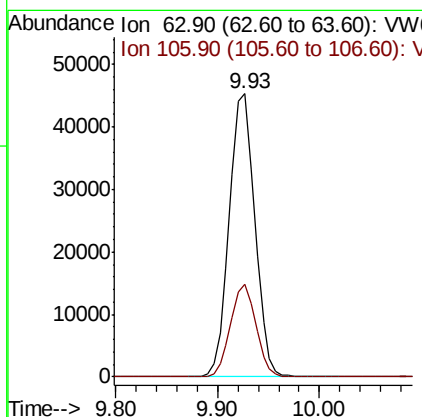
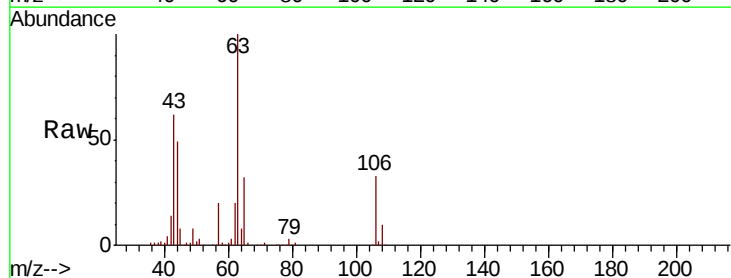
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

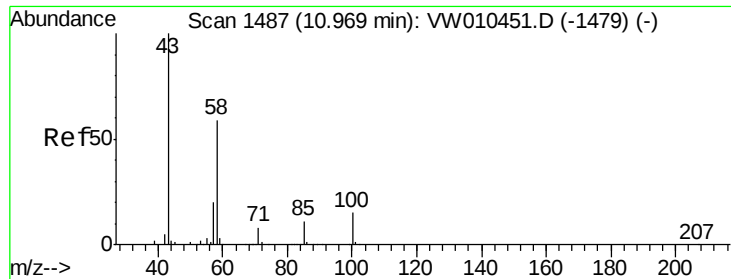
Tot Ion: 76 Resp: 41373
 Ion Ratio Lower Upper
 76 100
 78 32.6 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.269 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion: 63 Resp: 78646
 Ion Ratio Lower Upper
 63 100
 106 32.5 25.8 38.6

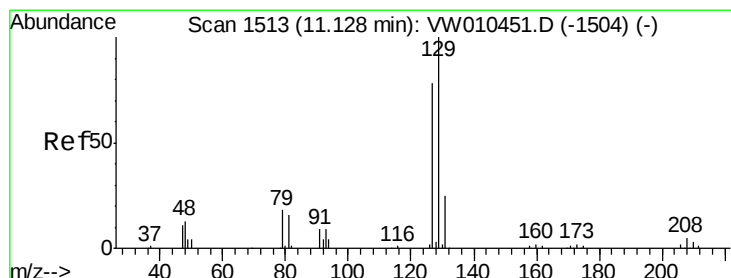
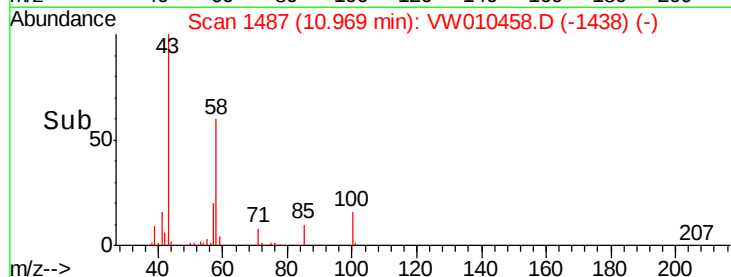
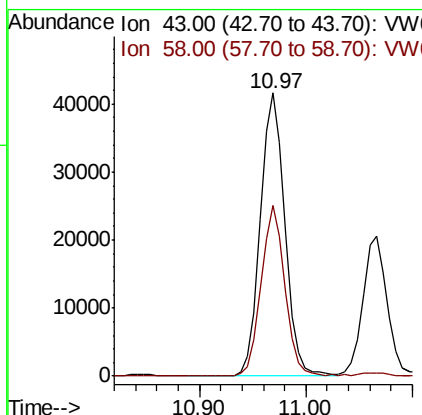
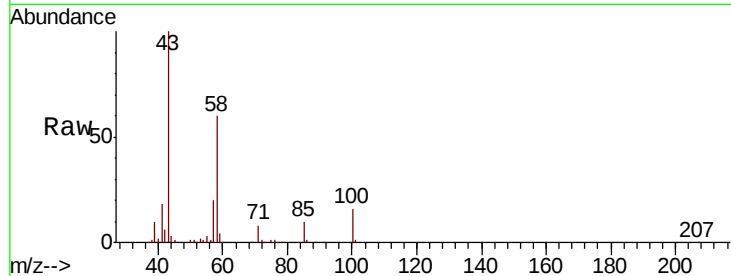




#59
2-Hexanone
Concen: 98.892 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

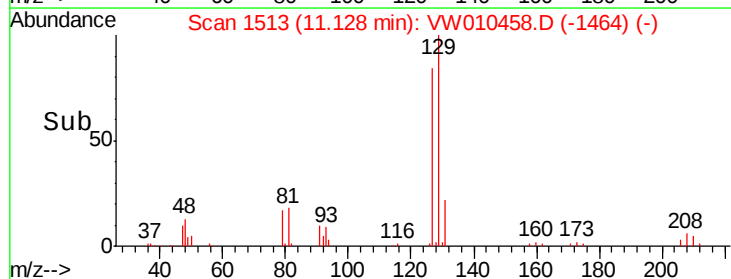
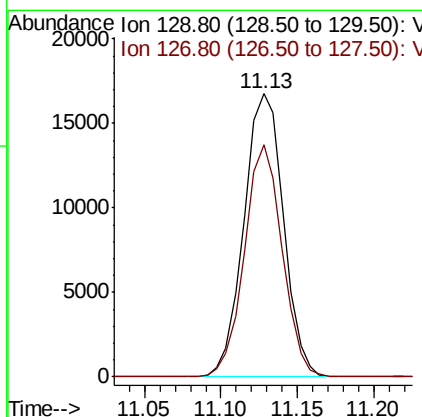
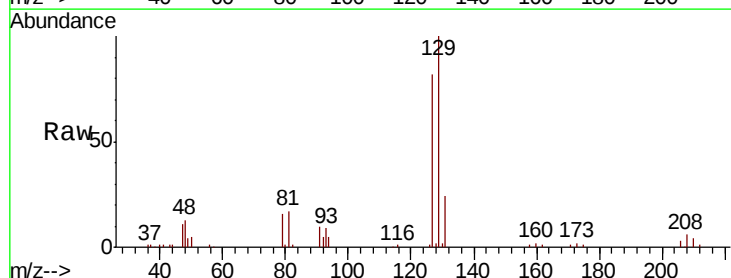
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

Tot Ion: 43 Resp: 67545
Ion Ratio Lower Upper
43 100
58 58.0 28.9 86.8



#60
Dibromochloromethane
Concen: 19.268 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion: 129 Resp: 30110
Ion Ratio Lower Upper
129 100
127 78.2 38.9 116.7

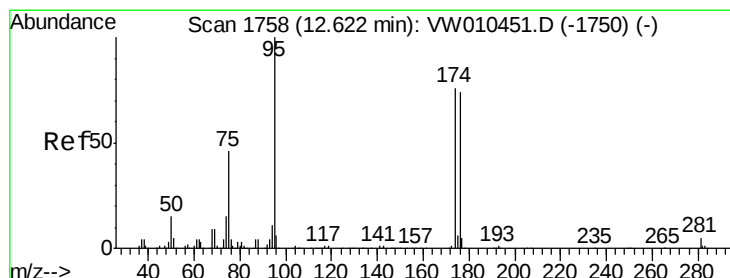
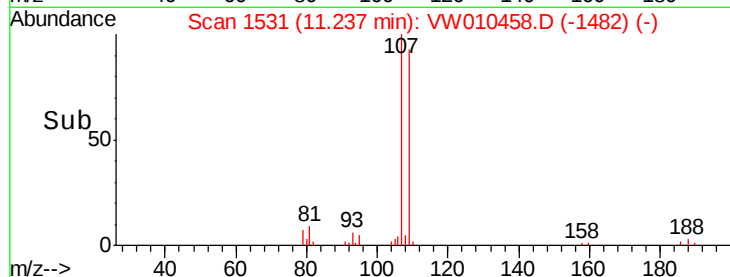
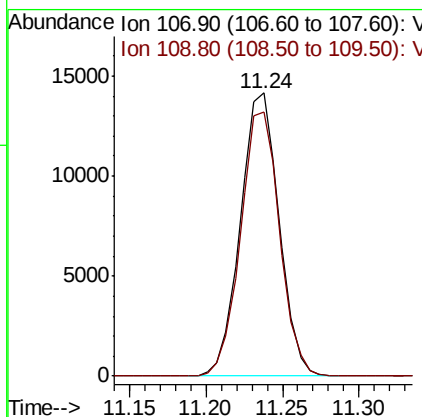
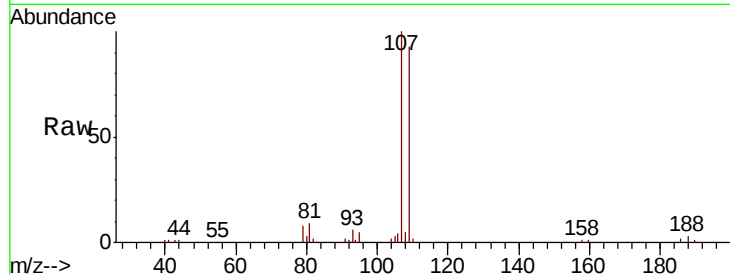




#61
 1,2-Dibromoethane
 Concen: 19.843 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

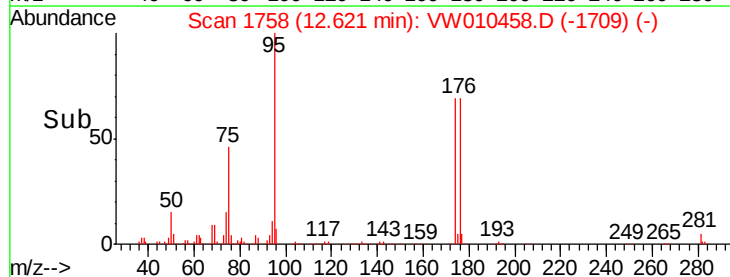
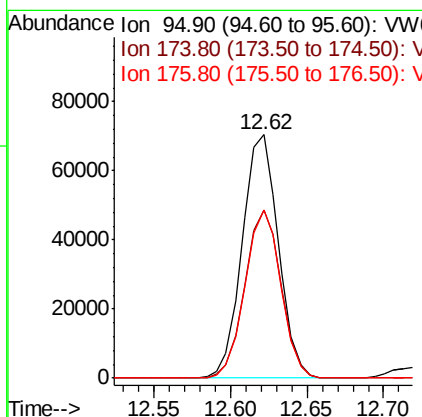
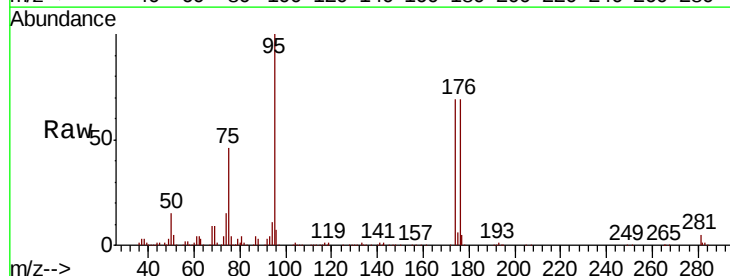
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

Tot Ion: 107 Resp: 24819
 Ion Ratio Lower Upper
 107 100
 109 94.3 75.0 112.4



#62
 4-Bromofluorobenzene
 Concen: 52.389 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion: 95 Resp: 115493
 Ion Ratio Lower Upper
 95 100
 174 69.4 0.0 148.6
 176 68.2 0.0 144.2

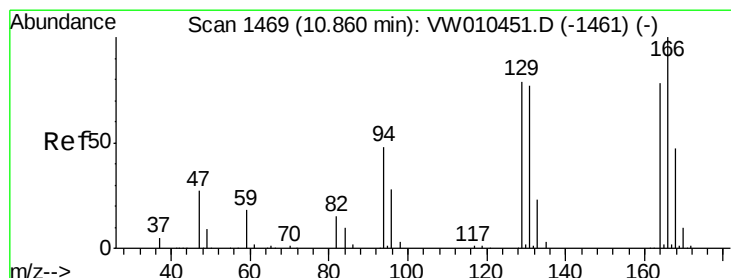
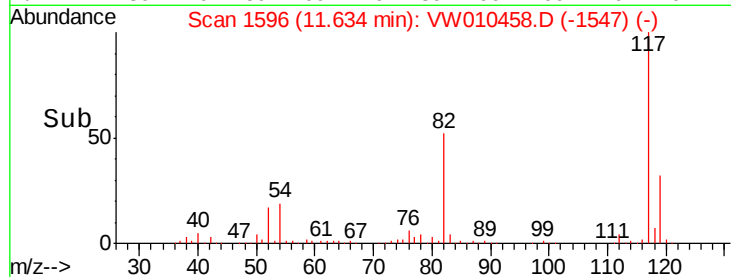
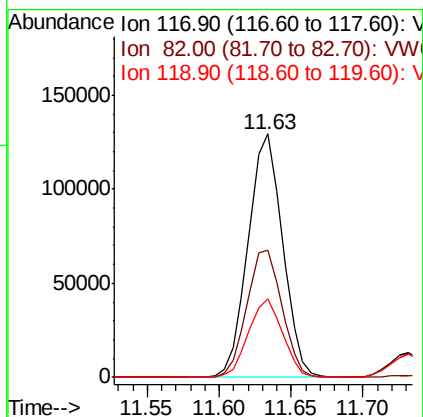
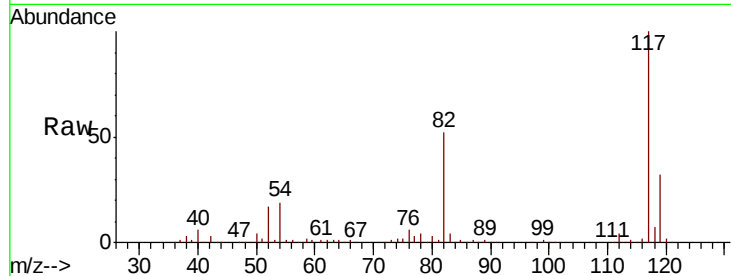




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

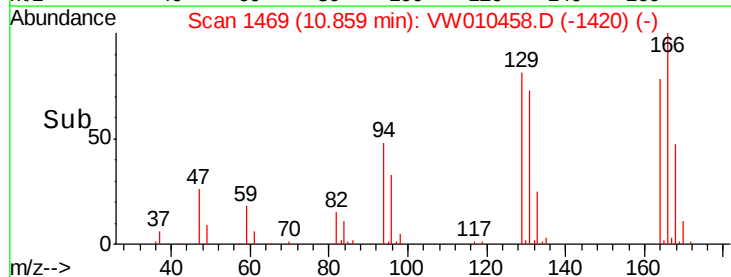
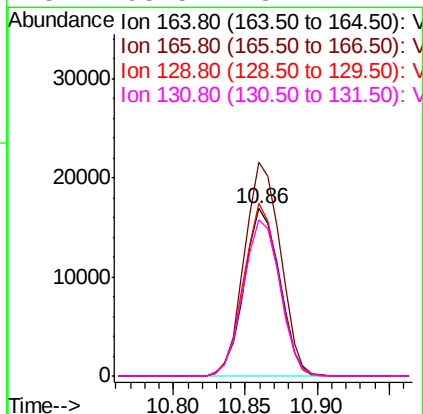
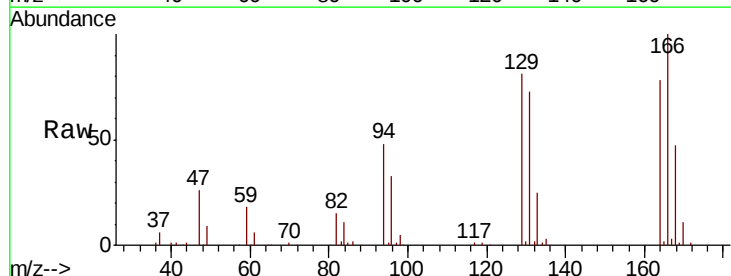
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

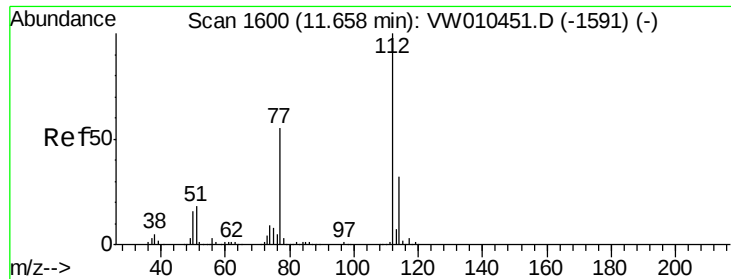
Tot Ion:117 Resp: 213975
Ion Ratio Lower Upper
117 100
82 52.1 42.8 64.2
119 32.3 26.3 39.5



#64
Tetrachloroethene
Concen: 19.388 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion:164 Resp: 28920
Ion Ratio Lower Upper
164 100
166 127.6 101.9 152.9
129 103.3 80.6 121.0
131 93.5 78.2 117.2

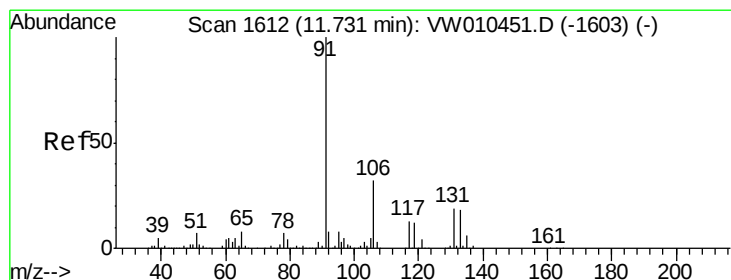
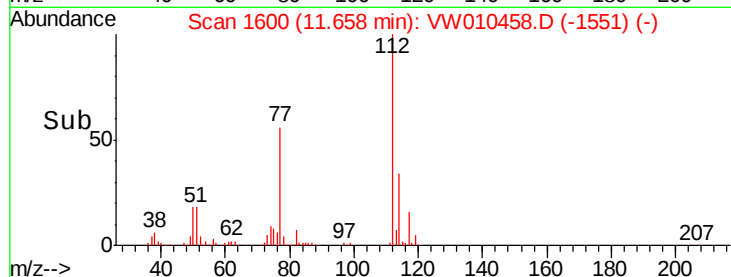
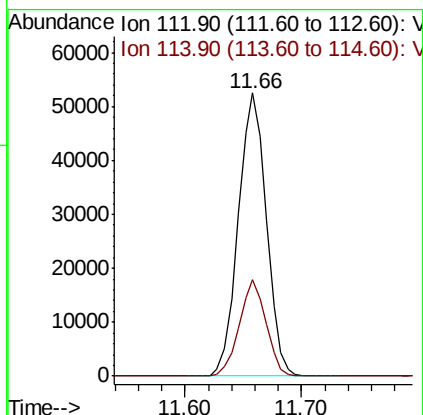
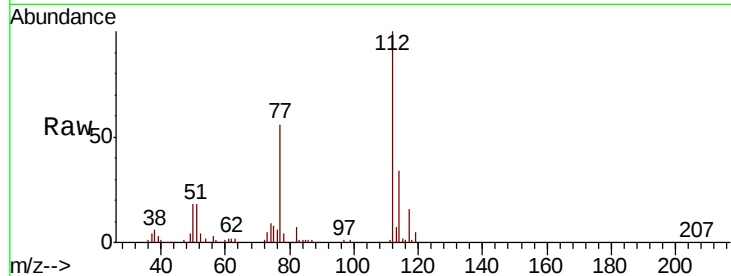




#65
Chlorobenzene
Concen: 19.371 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

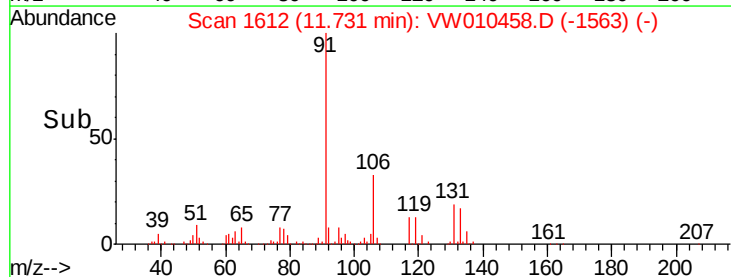
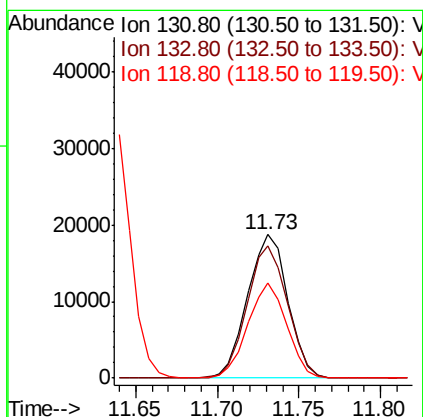
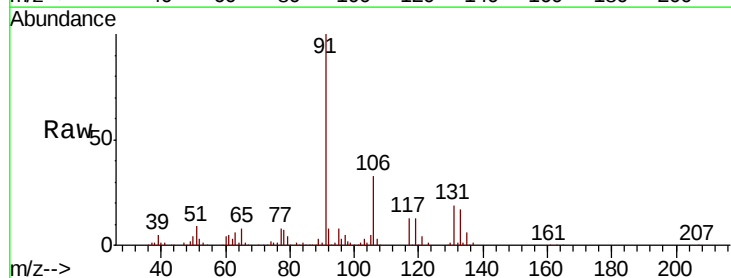
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

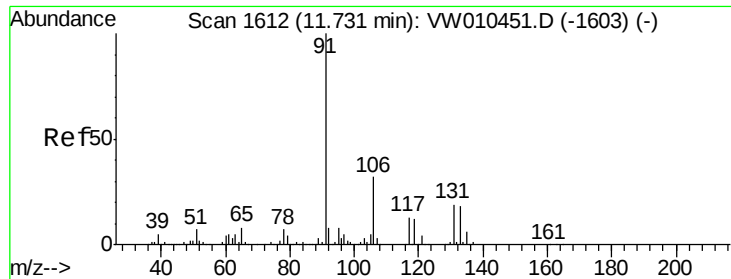
Tot Ion:112 Resp: 88339
Ion Ratio Lower Upper
112 100
114 33.9 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 19.699 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion:131 Resp: 32181
Ion Ratio Lower Upper
131 100
133 92.9 47.3 141.9
119 64.5 32.1 96.5

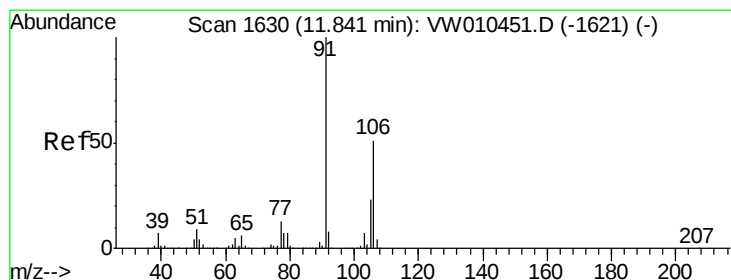
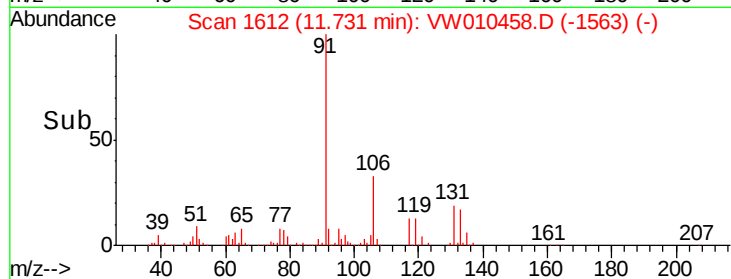
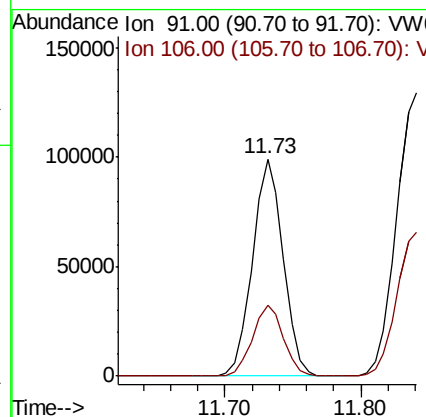
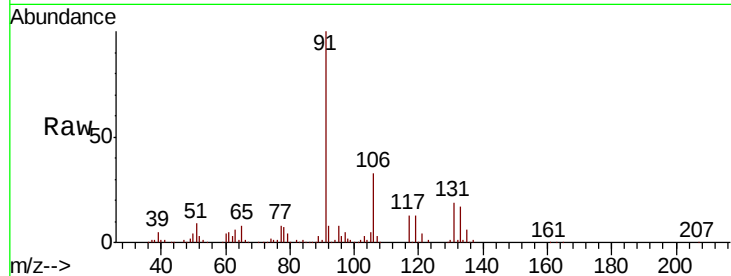




#67
Ethyl Benzene
Concen: 19.425 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

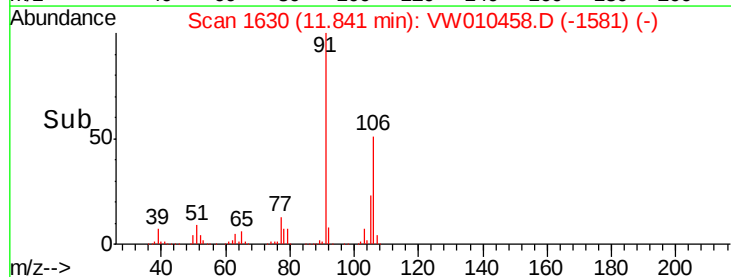
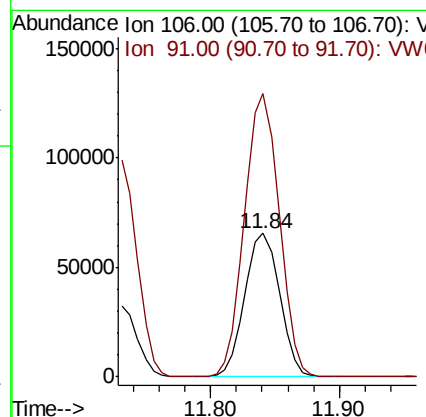
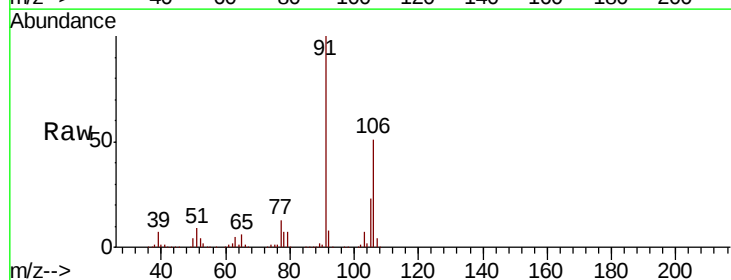
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

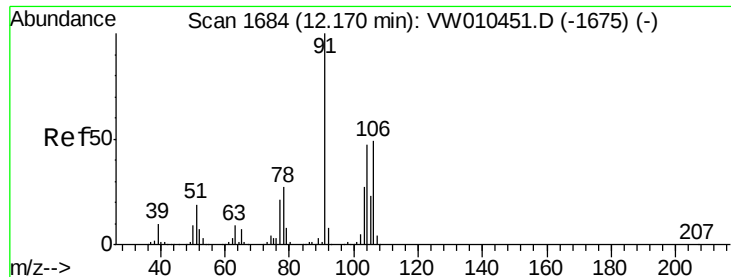
Tot Ion: 91 Resp: 156399
Ion Ratio Lower Upper
91 100
106 32.8 25.9 38.9



#68
m/p-Xylenes
Concen: 39.128 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion: 106 Resp: 123568
Ion Ratio Lower Upper
106 100
91 196.0 156.0 234.0

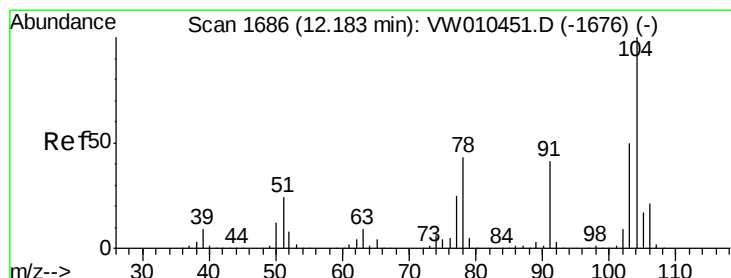
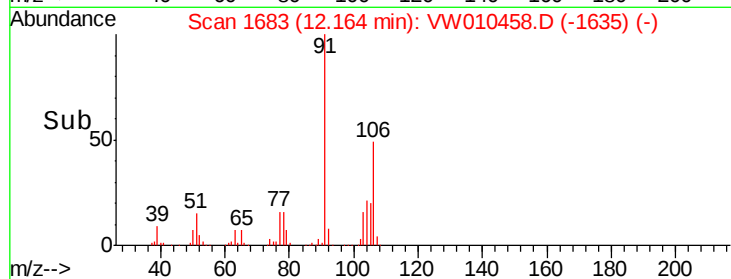
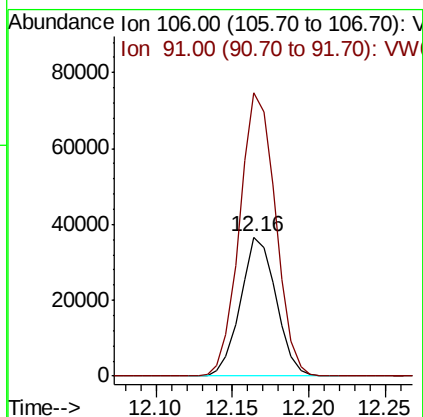
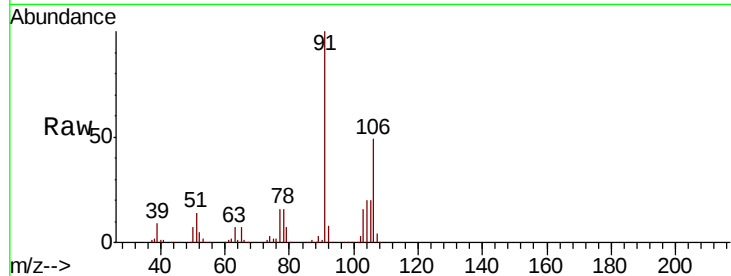




#69
o-Xylene
Concen: 19.710 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

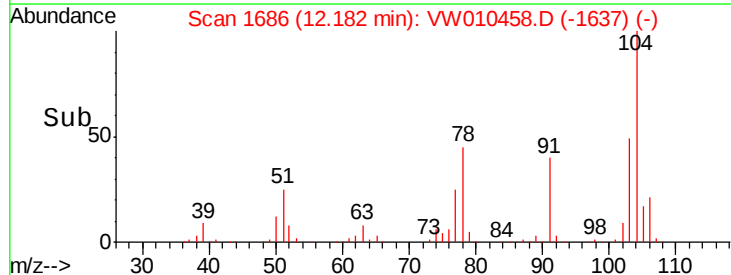
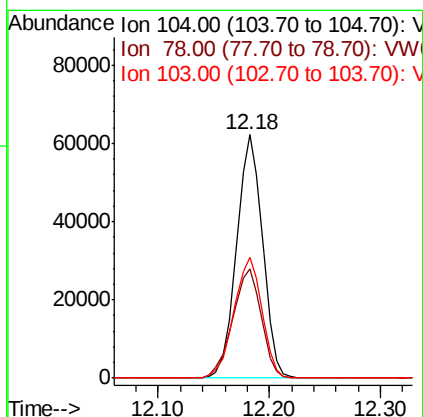
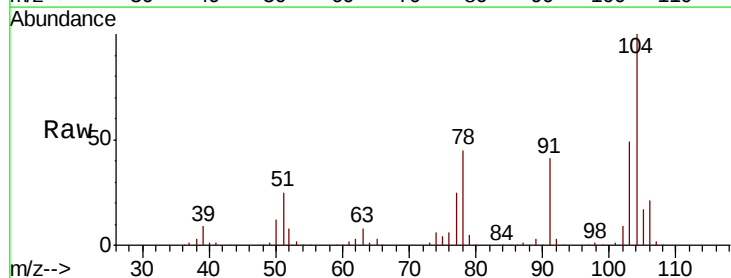
Instrument :
MSVOA_W
ClientSampled :
VW0520SBS01

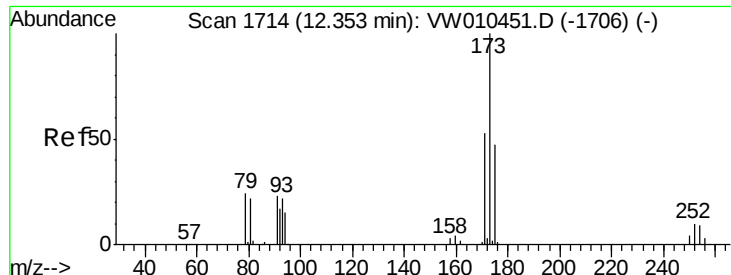
Tot Ion:106 Resp: 58973
Ion Ratio Lower Upper
106 100
91 206.7 103.2 309.4



#70
Styrene
Concen: 19.717 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion:104 Resp: 100095
Ion Ratio Lower Upper
104 100
78 49.6 39.0 58.4
103 53.8 43.0 64.6





#71

Bromoform

Concen: 18.831 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

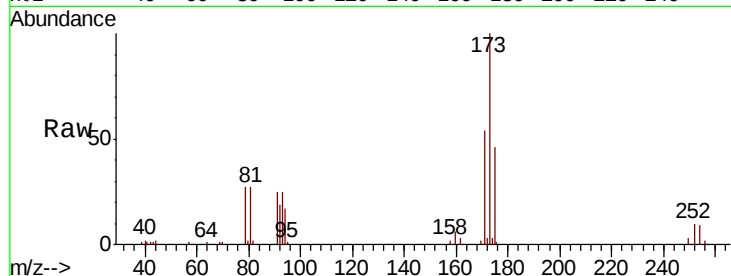
Tot Ion:173 Resp: 16940

Ion Ratio Lower Upper

173 100

175 47.0 24.4 73.4

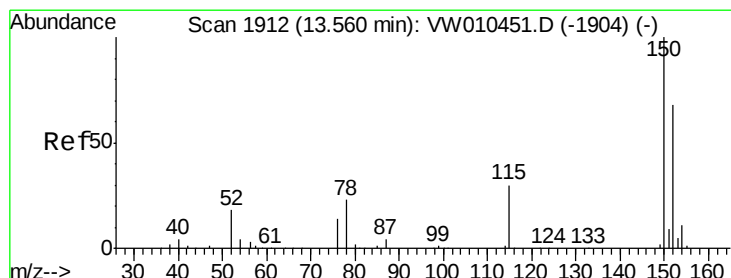
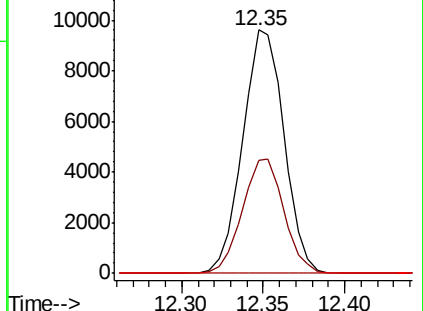
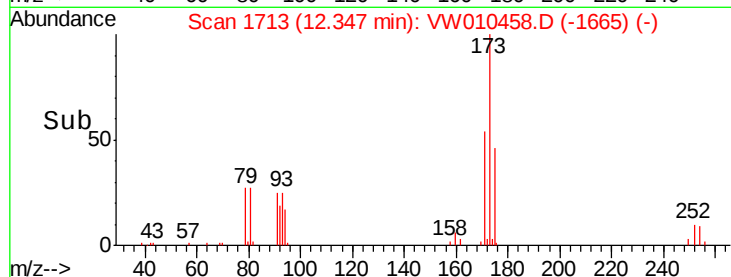
254 0.0 0.0 0.0



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: VW010458.D

Acq: 20 May 2019 20:33

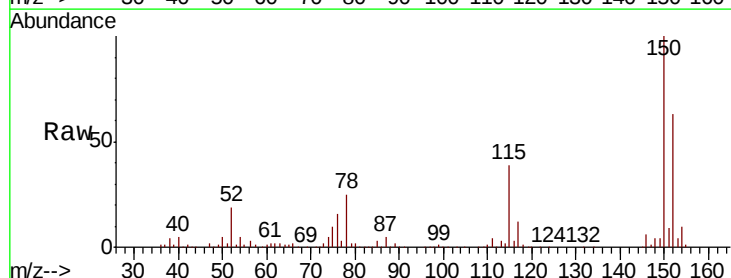
Tgt Ion:152 Resp: 101836

Ion Ratio Lower Upper

152 100

115 61.6 30.3 91.0

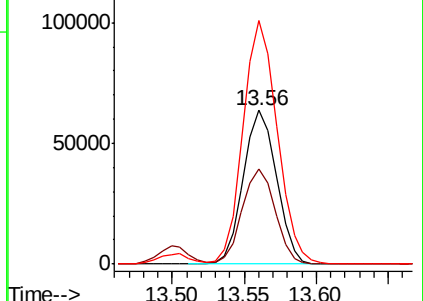
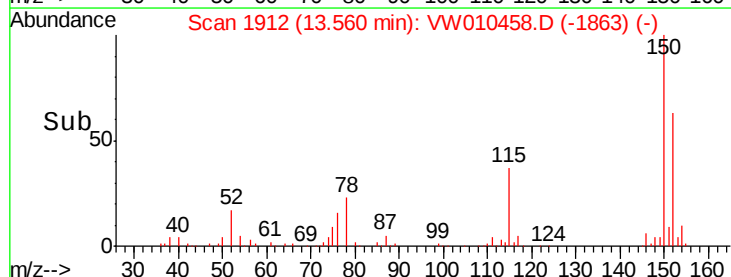
150 162.8 0.0 349.8

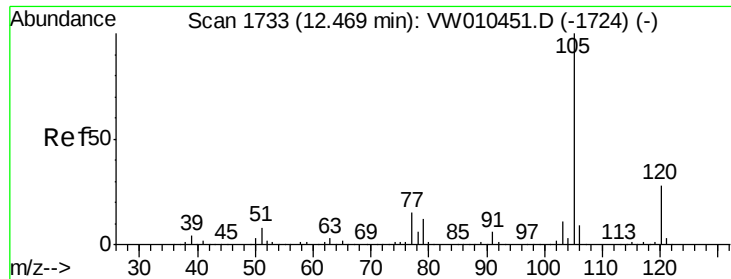


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.565 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

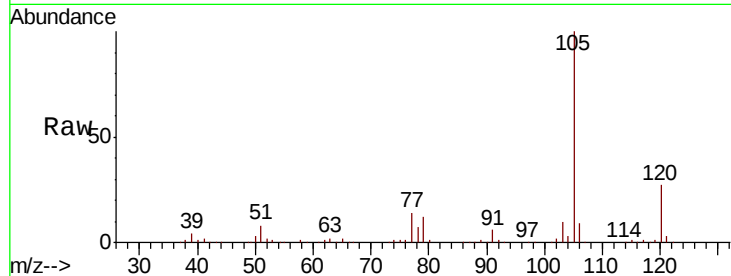
VW0520SBS01

Tot Ion:105 Resp: 158108

Ion Ratio Lower Upper

105 100

120 27.7 13.9 41.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.47

100000

80000

60000

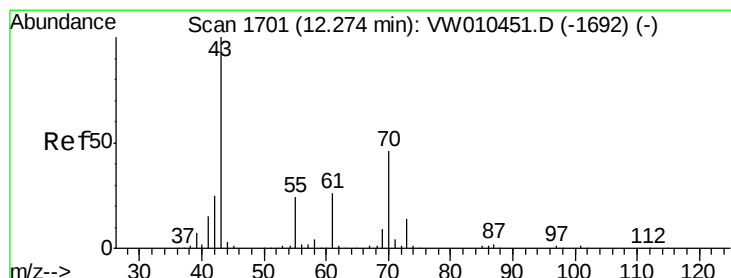
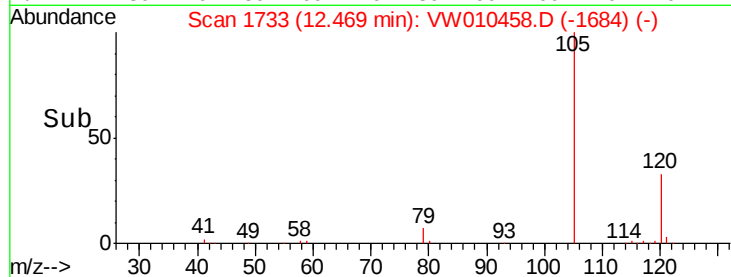
40000

20000

0

Time-->

12.40 12.45 12.50



#74

N-ethyl acetate

Concen: 19.736 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Tgt Ion: 43 Resp: 36548

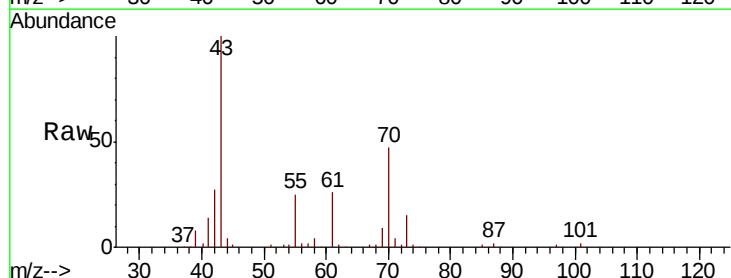
Ion Ratio Lower Upper

43 100

70 47.1 37.1 55.7

55 24.6 19.6 29.4

61 26.3 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

30000

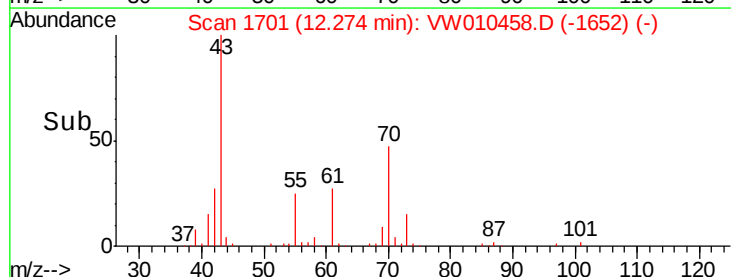
20000

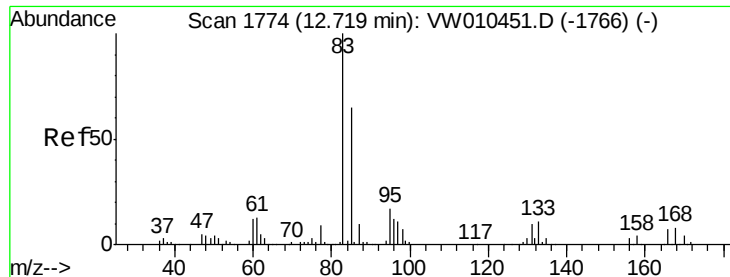
10000

0

Time-->

12.20 12.30 12.40





#75

1,1,2,2-Tetrachloroethane

Concen: 19.621 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

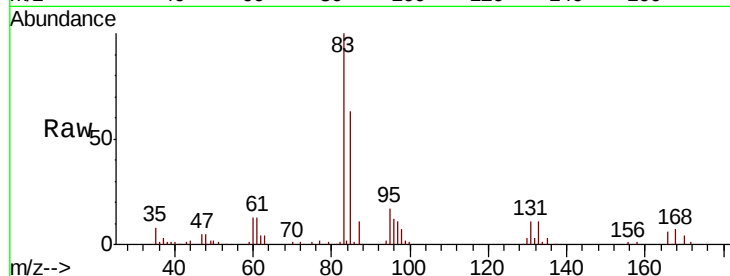
Tot Ion: 83 Resp: 28839

Ion Ratio Lower Upper

83 100

131 11.3 5.6 16.8

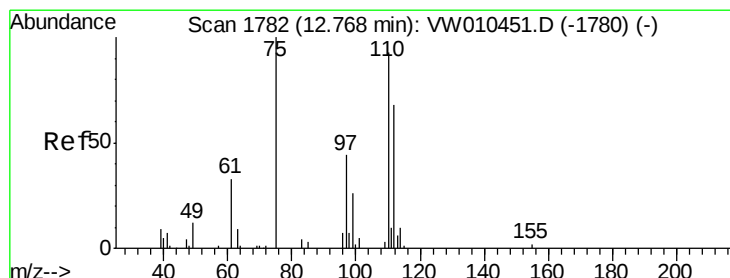
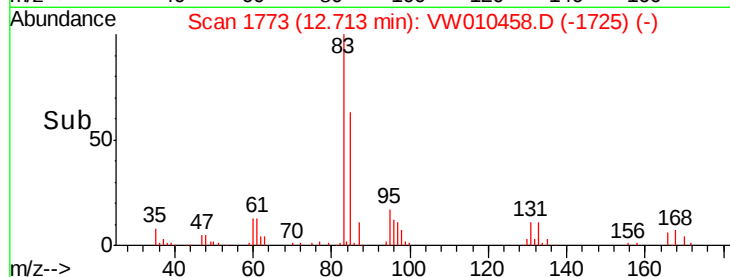
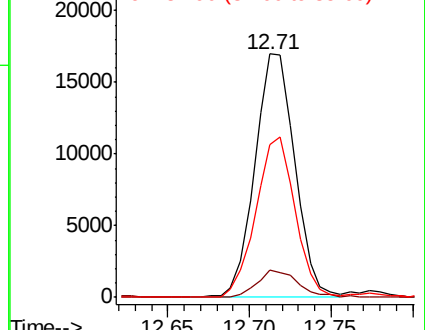
85 64.5 32.4 97.0



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: 35.848 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW010458.D

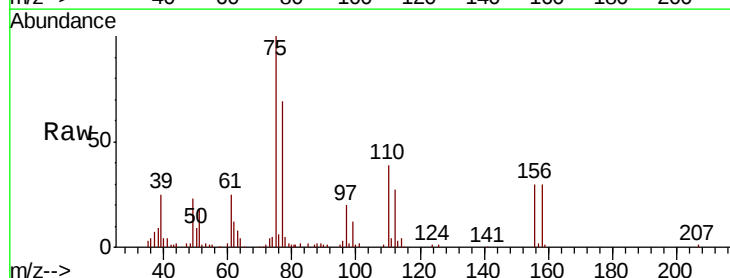
Acq: 20 May 2019 20:33

Tgt Ion: 75 Resp: 37056

Ion Ratio Lower Upper

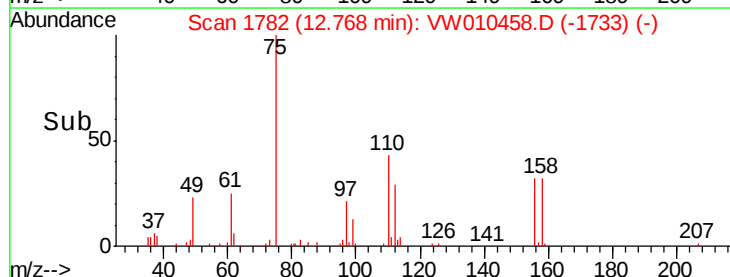
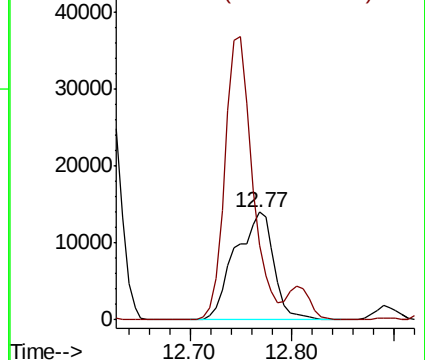
75 100

77 186.2 170.0 510.1



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 19.974 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampled :

VW0520SBS01

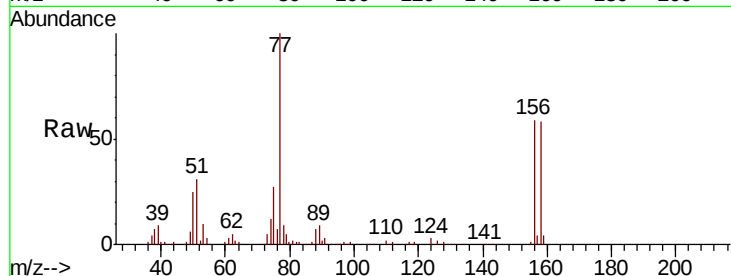
Tot Ion:156 Resp: 36121

Ion Ratio Lower Upper

156 100

77 191.0 92.4 277.2

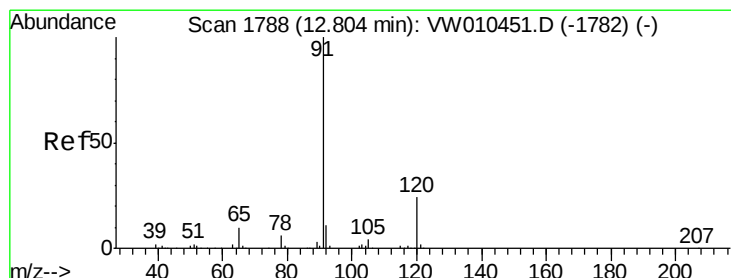
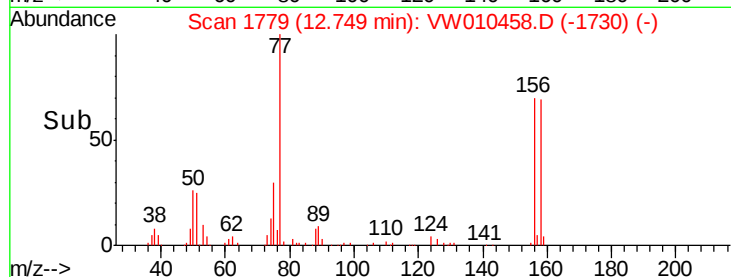
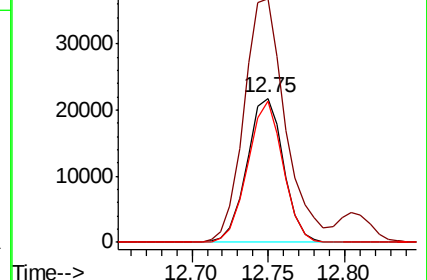
158 95.1 48.3 144.8



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: 19.370 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW010458.D

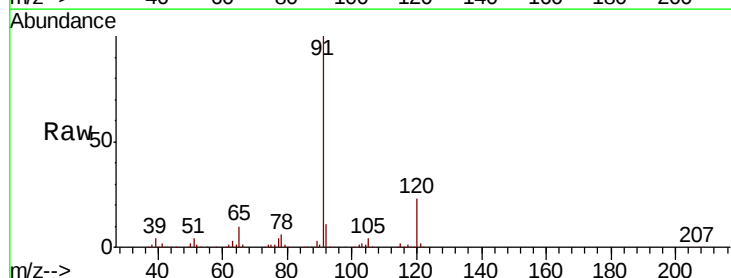
Acq: 20 May 2019 20:33

Tgt Ion: 91 Resp: 182415

Ion Ratio Lower Upper

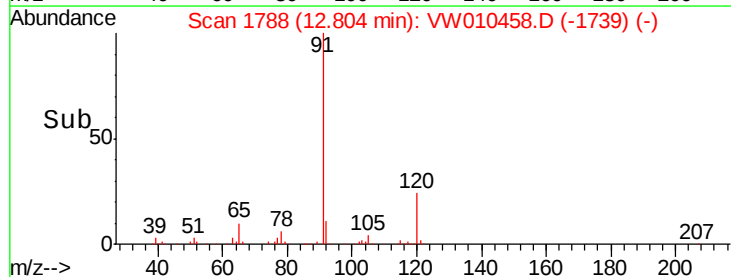
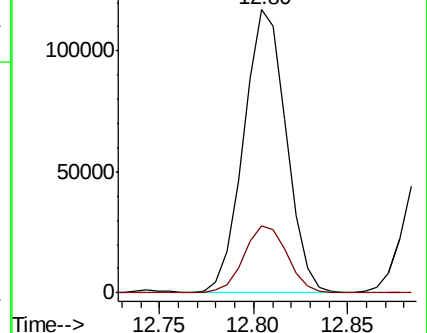
91 100

120 24.1 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

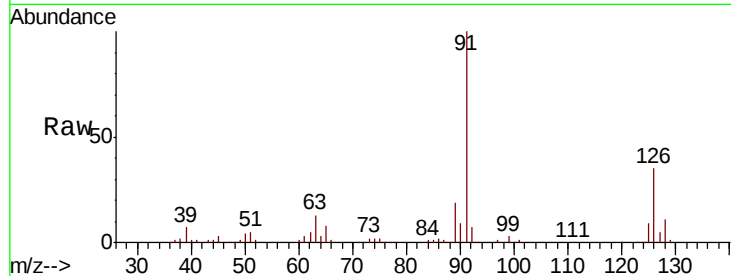




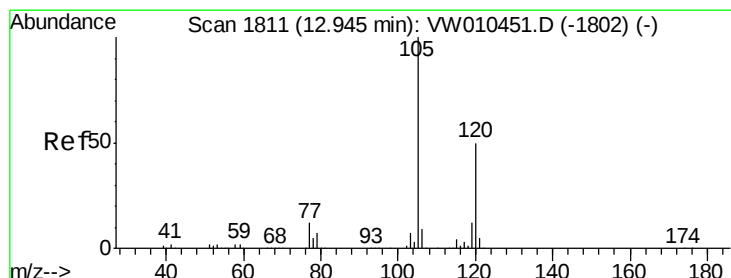
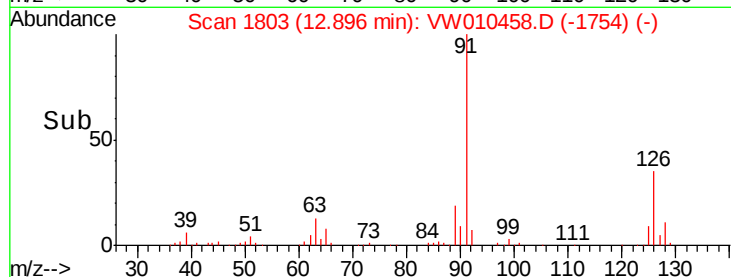
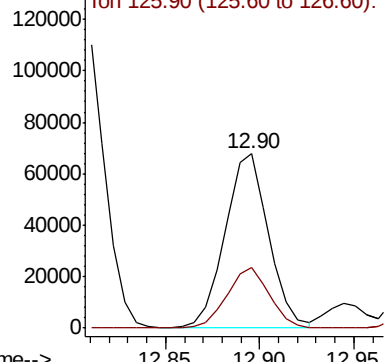
#79
 2-Chlorotoluene
 Concen: 19.784 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

Tot Ion: 91 Resp: 108046
 Ion Ratio Lower Upper
 91 100
 126 33.9 17.4 52.3

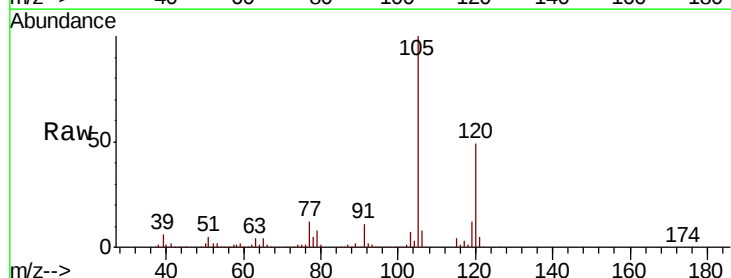


Abundance Ion 91.00 (90.70 to 91.70): VW
 Ion 125.90 (125.60 to 126.60): V

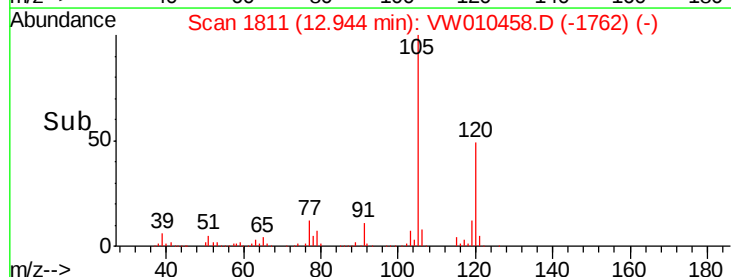
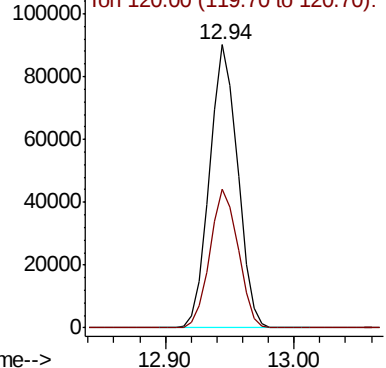


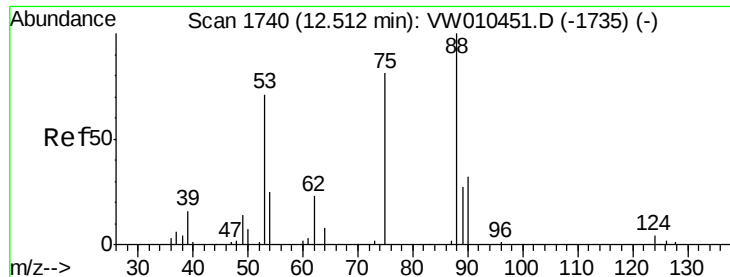
#80
 1,3,5-Trimethylbenzene
 Concen: 19.873 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion:105 Resp: 136014
 Ion Ratio Lower Upper
 105 100
 120 49.3 25.2 75.6



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: 18.369 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

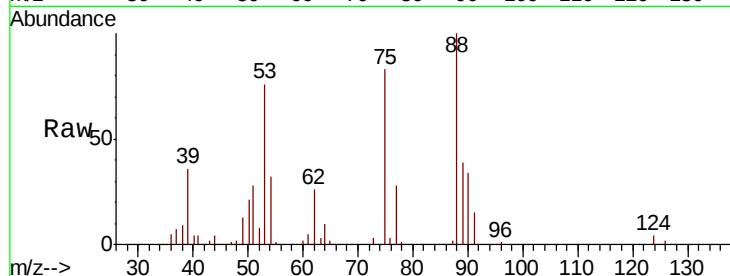
Tot Ion: 75 Resp: 9098

Ion Ratio Lower Upper

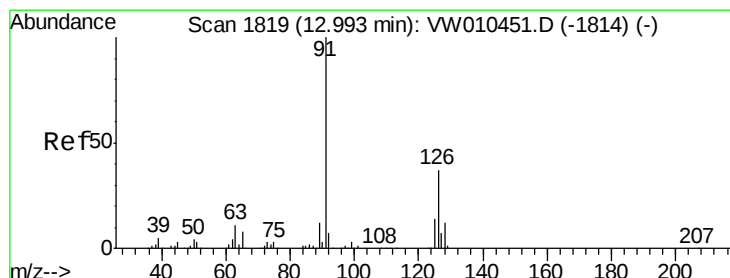
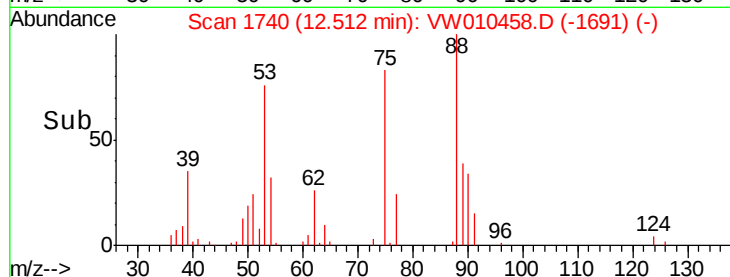
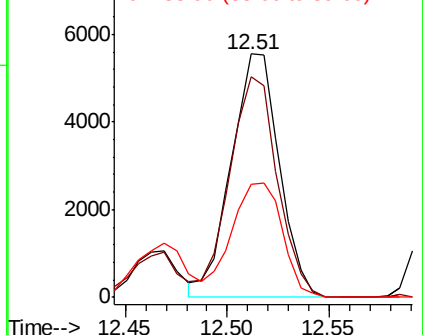
75 100

53 90.5 69.8 104.8

89 49.6 39.5 59.3



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 19.930 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VW010458.D

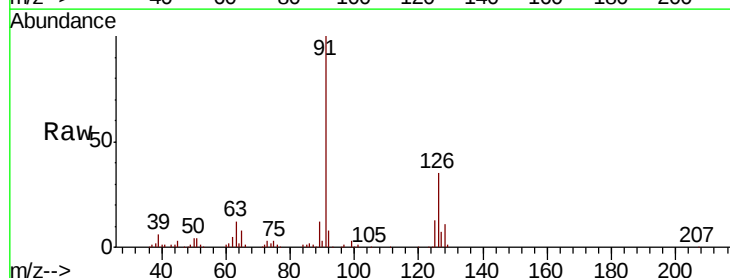
Acq: 20 May 2019 20:33

Tgt Ion: 91 Resp: 112979

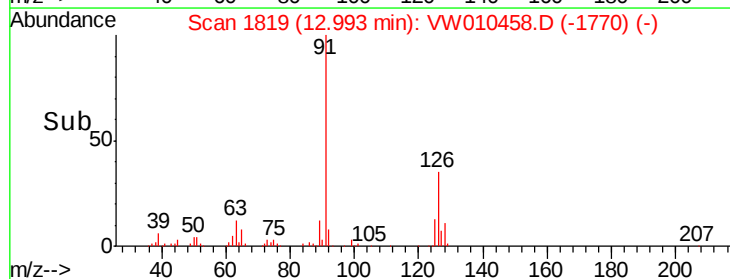
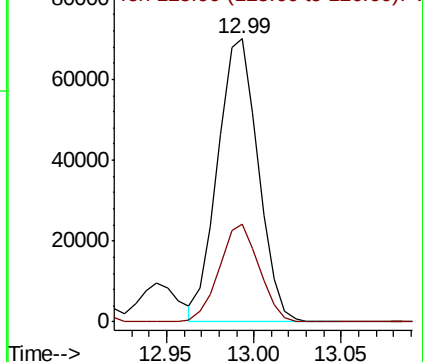
Ion Ratio Lower Upper

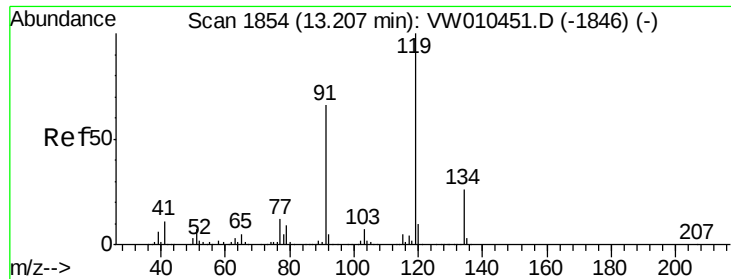
91 100

126 34.2 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 125.90 (125.60 to 126.60): V

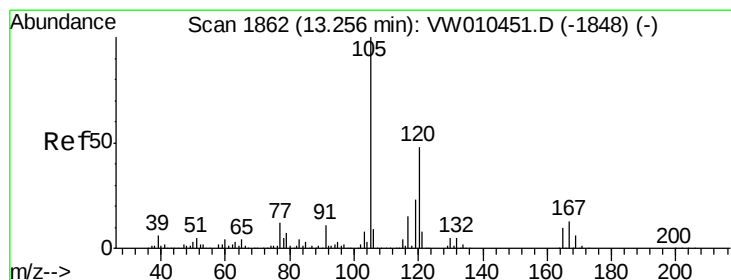
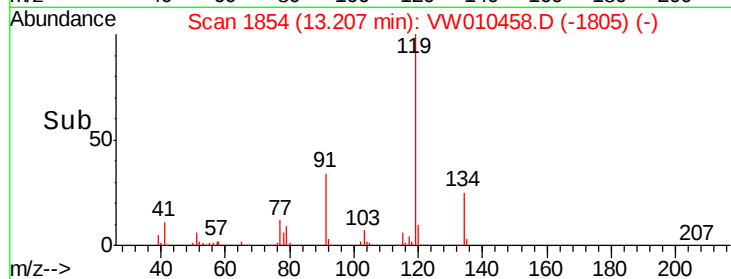
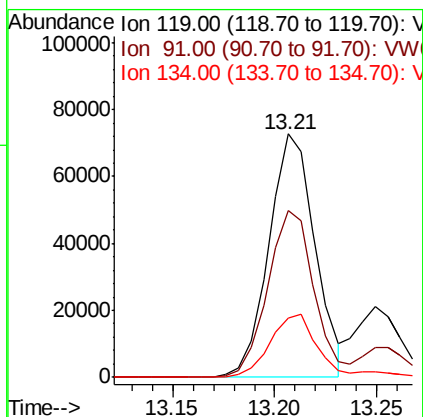
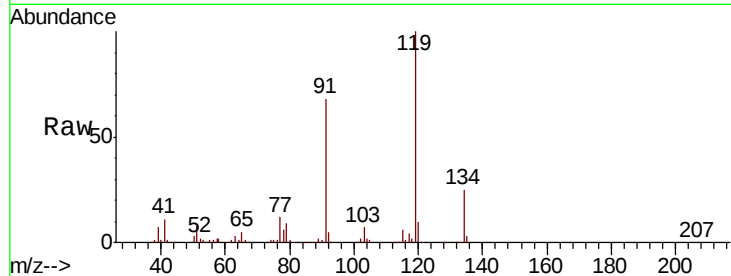




#83
tert-Butylbenzene
Concen: 19.159 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

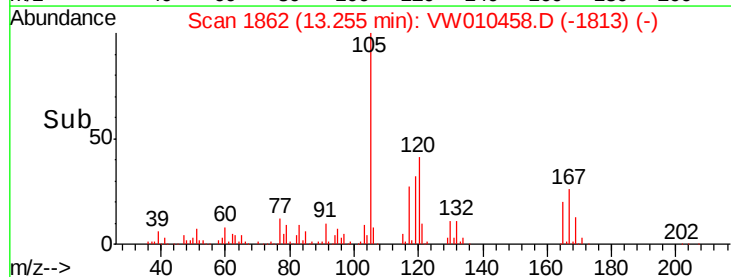
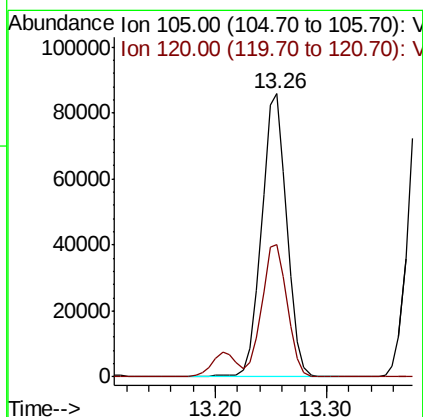
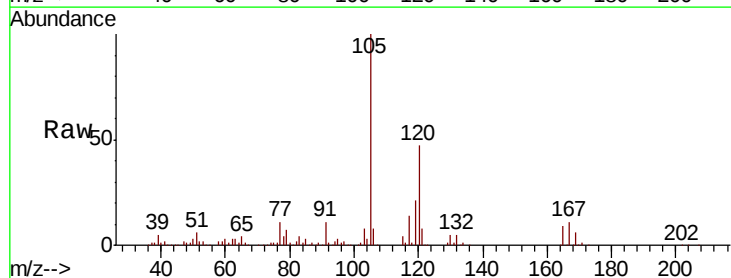
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

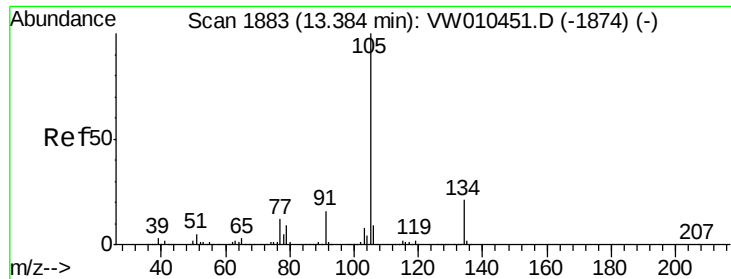
Tot Ion:119 Resp: 114538
Ion Ratio Lower Upper
119 100
91 69.2 33.1 99.5
134 27.9 13.9 41.6



#84
1,2,4-Trimethylbenzene
Concen: 19.878 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion:105 Resp: 135501
Ion Ratio Lower Upper
105 100
120 47.0 23.4 70.2





#85

sec-Butylbenzene

Concen: 19.241 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

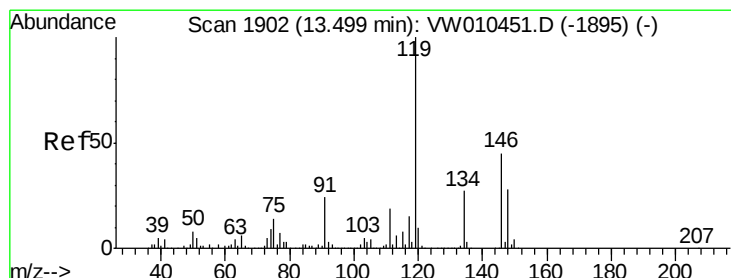
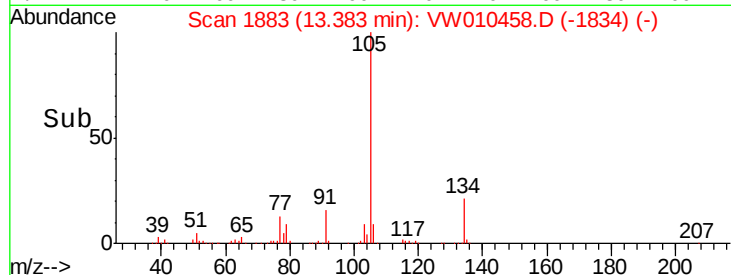
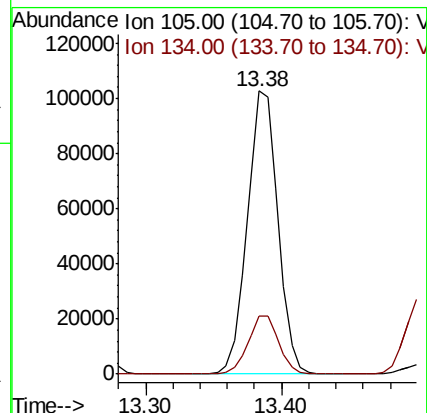
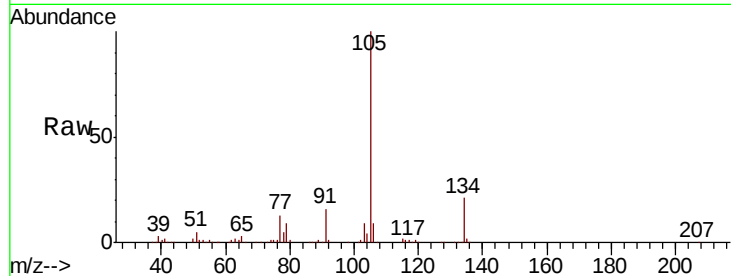
VW0520SBS01

Tot Ion:105 Resp: 160977

Ion Ratio Lower Upper

105 100

134 20.7 10.5 31.6



#86

p-Isopropyltoluene

Concen: 19.332 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

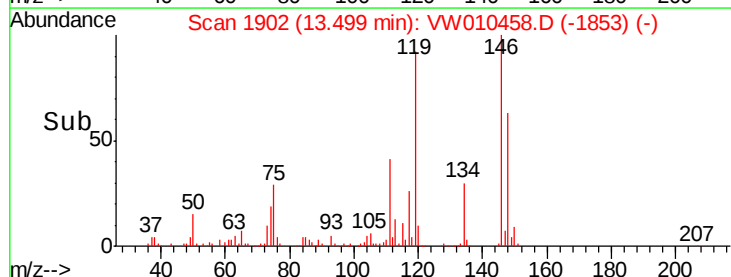
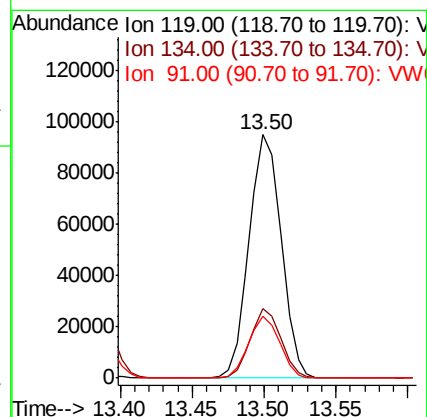
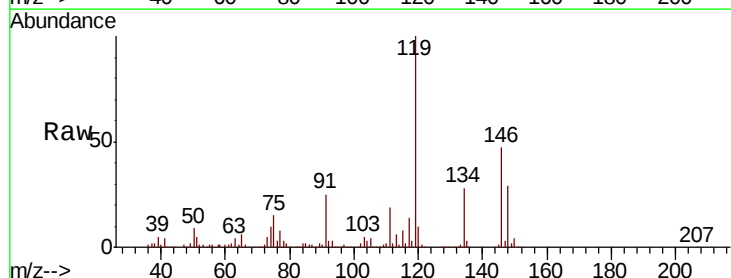
Tgt Ion:119 Resp: 146397

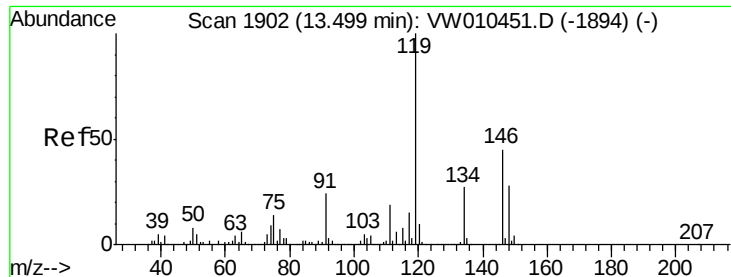
Ion Ratio Lower Upper

119 100

134 27.2 13.6 40.7

91 24.5 11.9 35.7

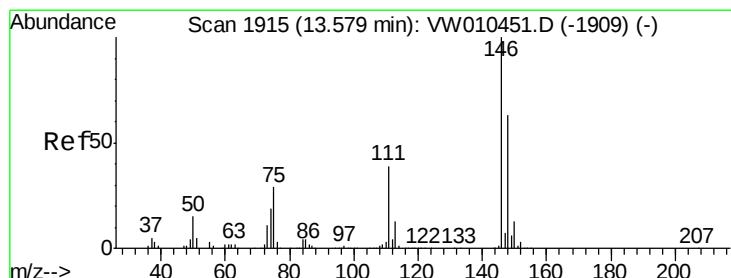
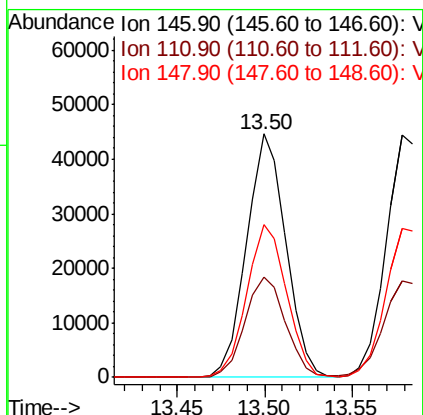
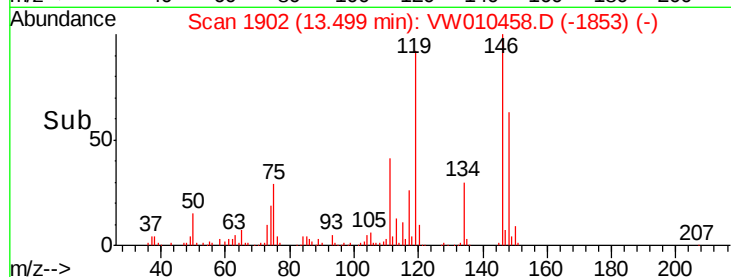
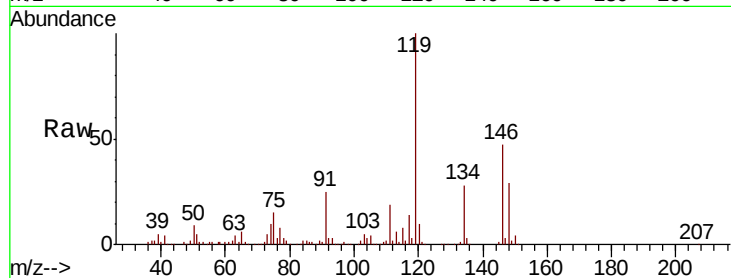




#87
 1,3-Dichlorobenzene
 Concen: 19.669 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

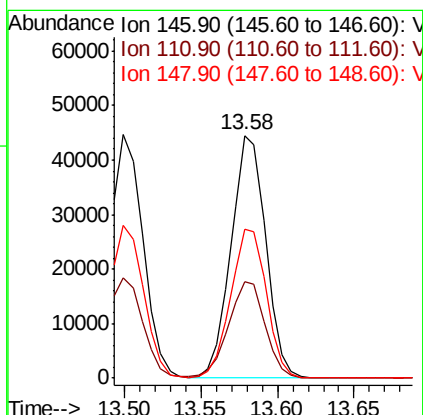
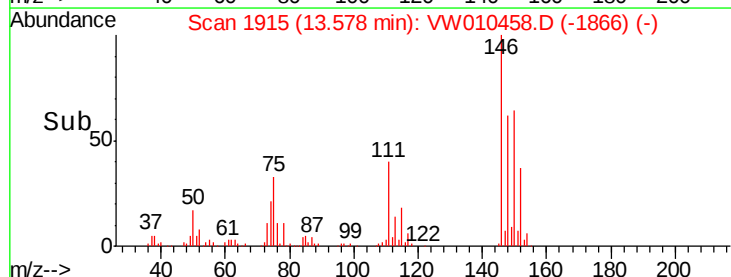
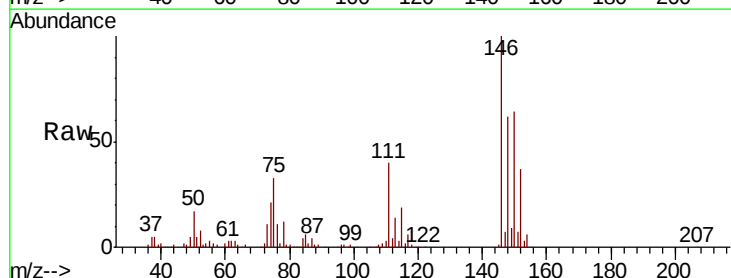
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

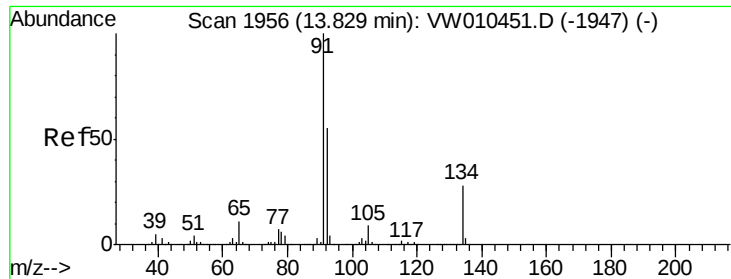
Tot Ion:146 Resp: 69783
 Ion Ratio Lower Upper
 146 100
 111 42.4 20.3 60.9
 148 63.4 31.6 94.8



#88
 1,4-Dichlorobenzene
 Concen: 19.708 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion:146 Resp: 70156
 Ion Ratio Lower Upper
 146 100
 111 42.0 19.9 59.6
 148 63.1 31.6 94.8

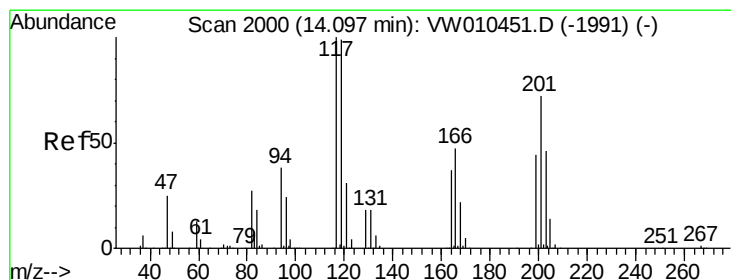
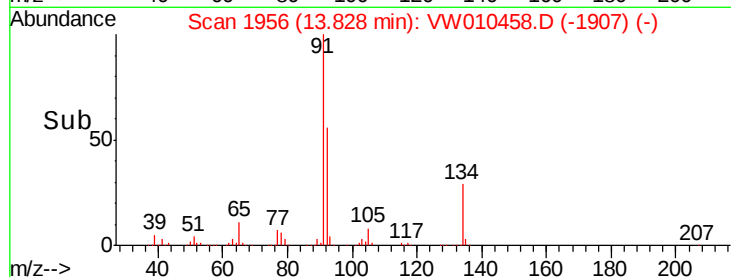
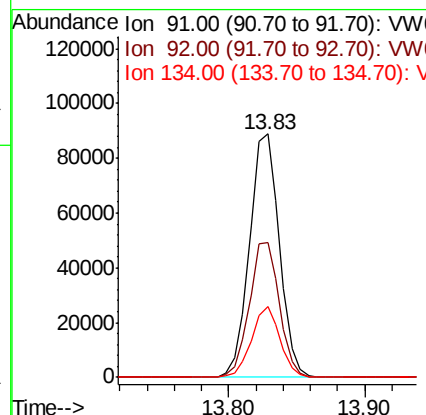
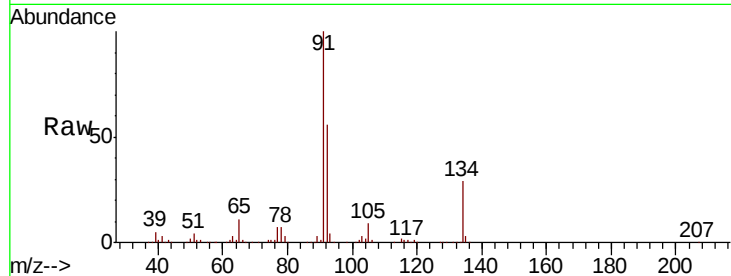




#89
n-Butylbenzene
Concen: 19.010 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

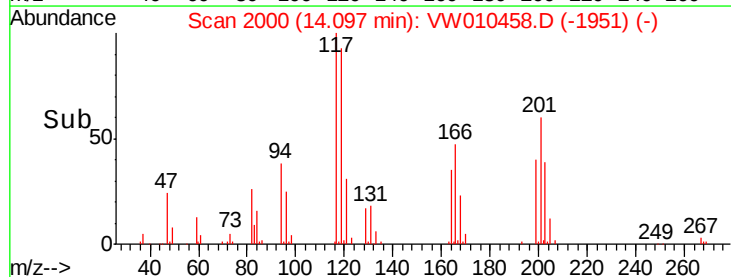
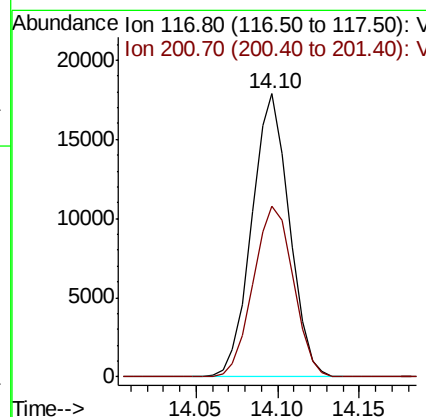
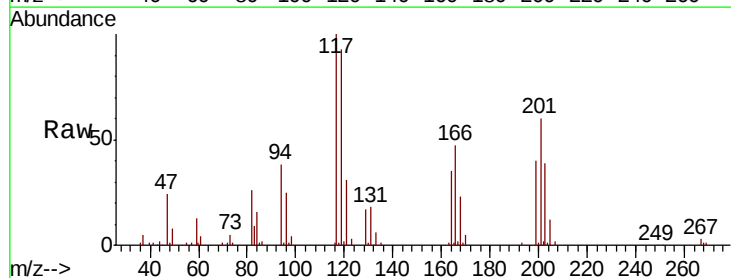
Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

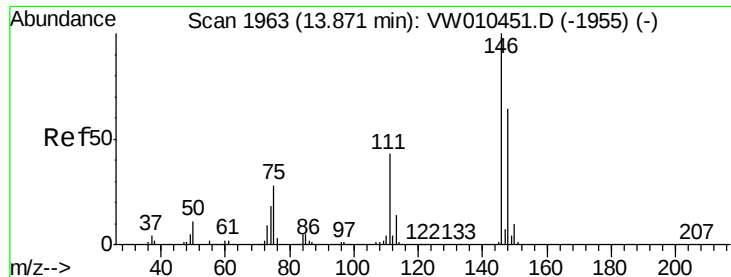
Tot Ion: 91 Resp: 136926
Ion Ratio Lower Upper
91 100
92 55.6 27.7 83.1
134 27.5 13.9 41.6



#90
Hexachloroethane
Concen: 19.509 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion: 117 Resp: 28596
Ion Ratio Lower Upper
117 100
201 64.2 34.6 103.8





#91

1,2-Dichlorobenzene

Concen: 19.582 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

Instrument :

MSVOA_W

ClientSampleId :

VW0520SBS01

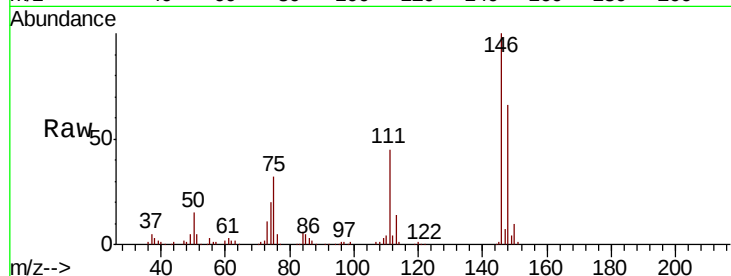
Tot Ion:146 Resp: 63303

Ion Ratio Lower Upper

146 100

111 44.4 21.3 64.0

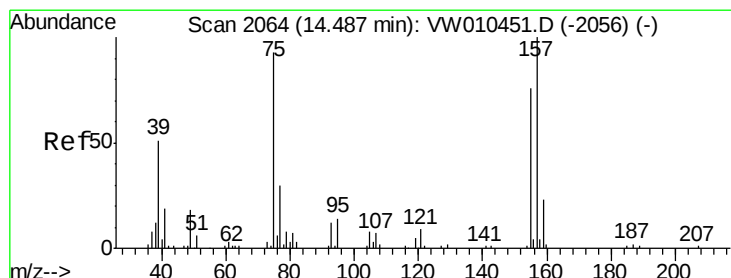
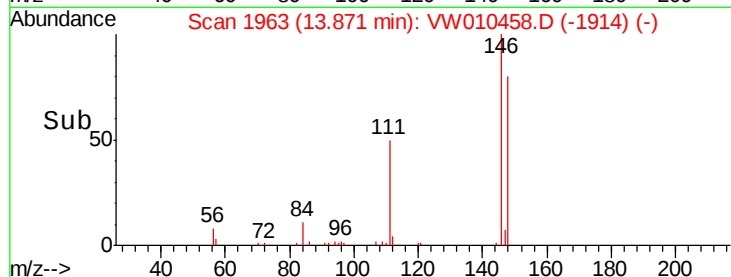
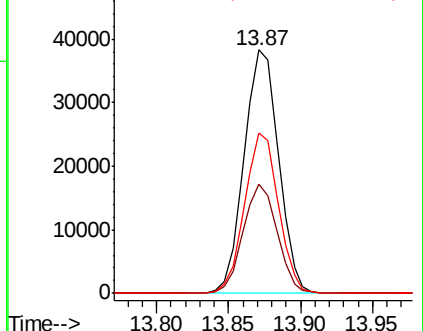
148 64.5 32.0 96.0



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: 19.487 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW010458.D

Acq: 20 May 2019 20:33

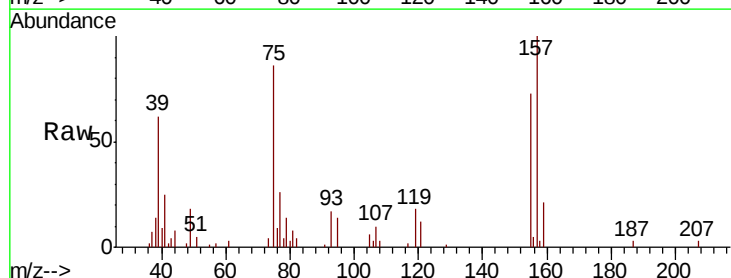
Tgt Ion: 75 Resp: 5326

Ion Ratio Lower Upper

75 100

155 82.6 43.0 129.0

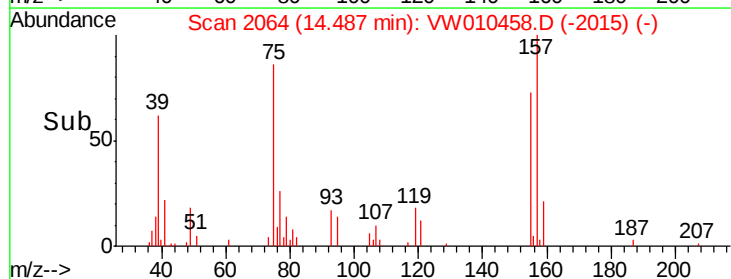
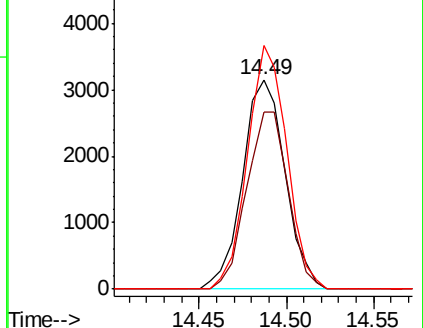
157 107.4 55.7 167.1

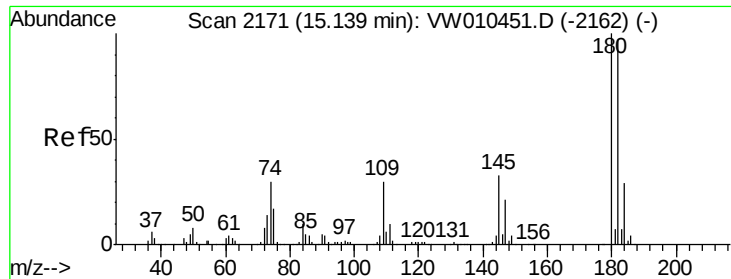


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

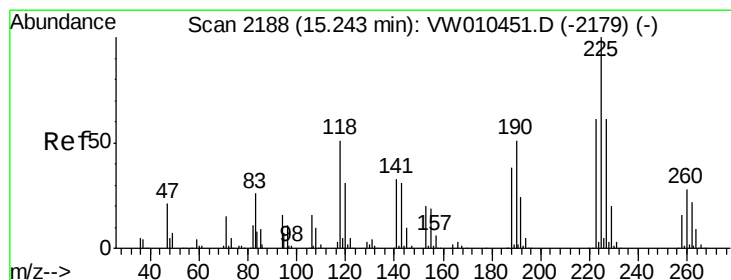
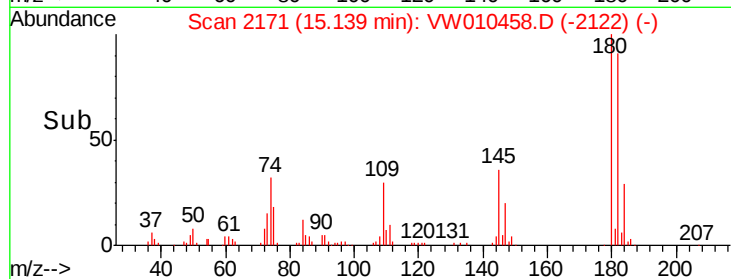
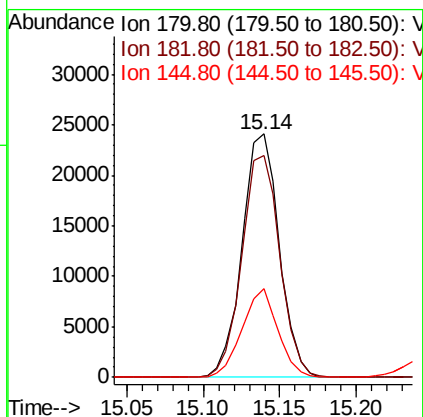
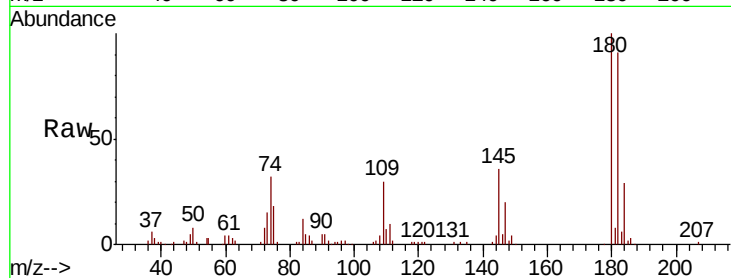




#93
 1,2,4-Trichlorobenzene
 Concen: 18.516 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

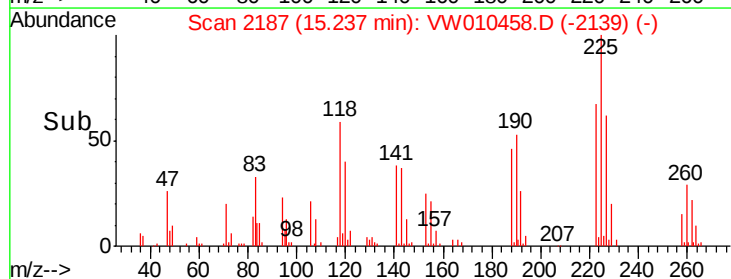
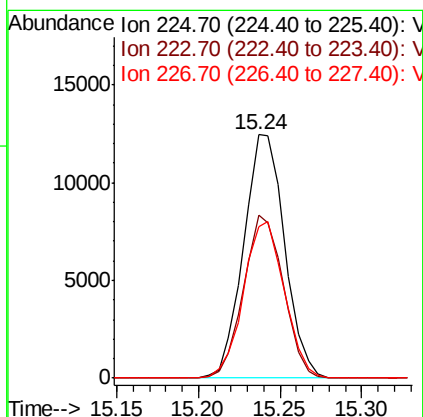
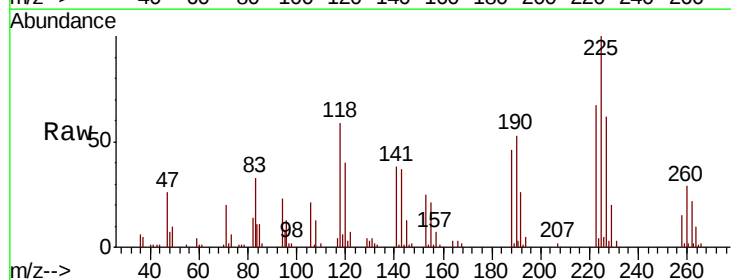
Instrument :
 MSVOA_W
 ClientSampleId :
 VW0520SBS01

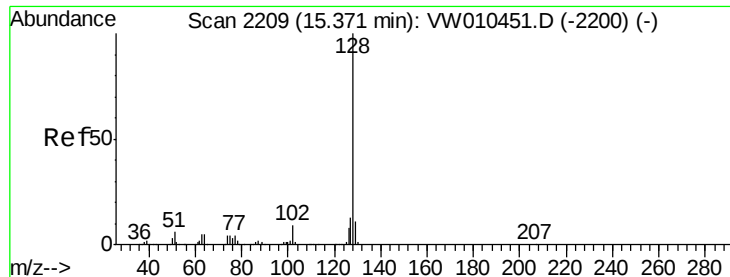
Tot Ion:180 Resp: 40727
 Ion Ratio Lower Upper
 180 100
 182 93.2 47.0 141.2
 145 34.7 16.7 50.0



#94
 Hexachlorobutadiene
 Concen: 18.516 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010458.D
 Acq: 20 May 2019 20:33

Tgt Ion:225 Resp: 21757
 Ion Ratio Lower Upper
 225 100
 223 65.1 31.1 93.2
 227 63.8 31.1 93.5

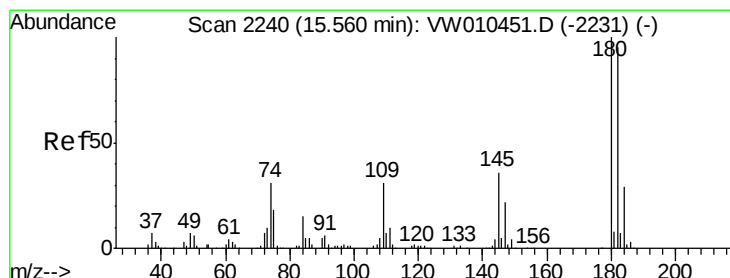
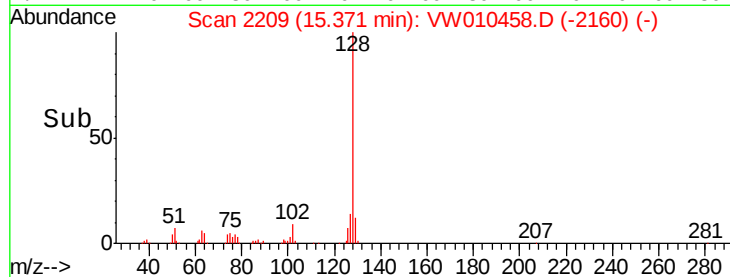
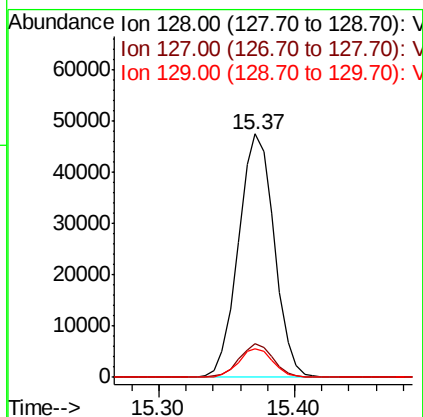
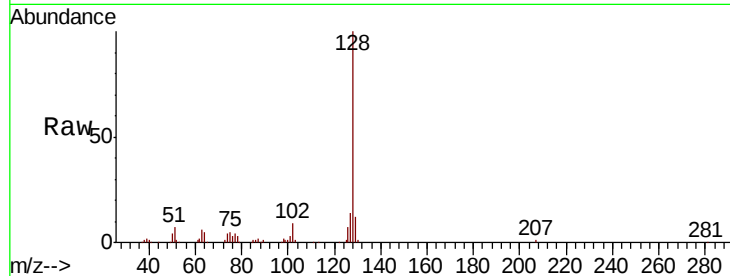




#95
Naphthalene
Concen: 18.886 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Instrument :
MSVOA_W
ClientSampleId :
VW0520SBS01

Tot Ion:128 Resp: 87200
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 11.3 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 18.810 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VW010458.D
Acq: 20 May 2019 20:33

Tgt Ion:180 Resp: 35600
Ion Ratio Lower Upper
180 100
182 94.0 47.1 141.3
145 36.8 17.4 52.3

