

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040119\
 Data File : VD061491.D
 Acq On : 2 Apr 2019 3:31
 Operator : VA/AP
 Sample : VD0401SBS02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0401SBS02

Quant Time: Apr 02 06:28:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	541411	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	955585	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.35	117	751108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	366532	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	281013	60.76	ug/l	0.00
Spiked Amount			Recovery	=	121.52%	
35) Dibromofluoromethane	6.91	113	410241	56.18	ug/l	0.00
Spiked Amount			Recovery	=	112.36%	
50) Toluene-d8	10.39	98	915023	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
62) 4-Bromofluorobenzene	13.54	95	363760	54.16	ug/l	0.00
Spiked Amount			Recovery	=	108.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	124981	21.615	ug/l	98
3) Chloromethane	1.76	50	108517	23.012	ug/l	94
4) Vinyl Chloride	1.86	62	94706	21.873	ug/l	96
5) Bromomethane	2.15	94	19289	22.466	ug/l #	96
6) Chloroethane	2.26	64	25408	20.011	ug/l	91
7) Trichlorofluoromethane	2.53	101	147589	23.442	ug/l	98
8) Diethyl Ether	2.87	74	45445	22.419	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.15	101	144176	21.300	ug/l	94
10) Methyl Iodide	3.31	142	181940	19.921	ug/l	95
11) Tert butyl alcohol	4.04	59	29472	102.324	ug/l	96
12) 1,1-Dichloroethene	3.13	96	125928	21.670	ug/l	97
13) Acrolein	3.04	56	20576	77.996	ug/l	97
14) Allyl chloride	3.62	41	172785	21.317	ug/l	99
15) Acrylonitrile	4.18	53	117250	117.287	ug/l	98
16) Acetone	3.22	43	120074	100.994	ug/l	95
17) Carbon Disulfide	3.37	76	392242	20.774	ug/l	98
18) Methyl Acetate	3.63	43	63314	25.328	ug/l	100
19) Methyl tert-butyl Ether	4.22	73	238654	23.724	ug/l	98
20) Methylene Chloride	3.81	84	167052	24.087	ug/l	99
21) trans-1,2-Dichloroethene	4.21	96	142917	22.779	ug/l	99
22) Diisopropyl ether	5.10	45	406128	23.678	ug/l	91
23) Vinyl Acetate	5.04	43	1063071	114.099	ug/l	99
24) 1,1-Dichloroethane	4.98	63	225921	22.412	ug/l	98
25) 2-Butanone	6.05	43	174656	116.783	ug/l	97
26) 2,2-Dichloropropane	6.01	77	170073	21.224	ug/l	96
27) cis-1,2-Dichloroethene	6.02	96	157814	22.958	ug/l	96
28) Bromochloromethane	6.43	49	96792	23.787	ug/l	97
29) Tetrahydrofuran	6.44	42	88597	122.222	ug/l	100
30) Chloroform	6.65	83	246444	23.661	ug/l	96
31) Cyclohexane	6.94	56	176618	22.172	ug/l	98
32) 1,1,1-Trichloroethane	6.85	97	203436	22.139	ug/l	99
36) 1,1-Dichloropropene	7.13	75	170914	20.493	ug/l	100
37) Ethyl Acetate	6.16	43	83645	23.451	ug/l	96
38) Carbon Tetrachloride	7.10	117	210095	21.922	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	175191	20.169	ug/l	93
40) Benzene	7.44	78	466511	22.288	ug/l	97
41) Methacrylonitrile	6.43	41	100297	24.049	ug/l #	92
42) 1,2-Dichloroethane	7.56	62	156364	24.974	ug/l	99
43) Isopropyl Acetate	9.22	43	108119	20.833	ug/l	93
44) Trichloroethene	8.52	130	152254	19.546	ug/l	100
45) 1,2-Dichloropropane	8.93	63	115697	21.798	ug/l	99
46) Dibromomethane	9.04	93	87174	24.402	ug/l	91
47) Bromodichloromethane	9.36	83	191190	23.845	ug/l	96
48) Methyl methacrylate	9.10	41	72408	25.281	ug/l	98
49) 1,4-Dioxane	9.06	88	15064	476.841	ug/l	89
51) 4-Methyl-2-Pentanone	10.29	43	370200	117.249	ug/l	97
52) Toluene	10.49	92	276481	21.651	ug/l	98
53) t-1,3-Dichloropropene	10.90	75	156881	21.535	ug/l	97
54) cis-1,3-Dichloropropene	10.02	75	195630	22.054	ug/l	98
55) 1,1,2-Trichloroethane	11.17	97	104698	23.444	ug/l	97
56) Ethyl methacrylate	11.02	69	107153	22.335	ug/l	92
57) 1,3-Dichloropropane	11.40	76	150764	22.968	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.84	63	265400	113.595	ug/l	99
59) 2-Hexanone	11.52	43	267094	116.756	ug/l	96
60) Dibromochloromethane	11.67	129	159741	23.203	ug/l	98
61) 1,2-Dibromoethane	11.79	107	116398	22.509	ug/l	99
64) Tetrachloroethene	11.24	164	133950	22.723	ug/l	98
65) Chlorobenzene	12.38	112	344619	22.451	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.50	131	139231	23.426	ug/l	98
67) Ethyl Benzene	12.51	91	564450	24.091	ug/l	97
68) m/p-Xylenes	12.66	106	407513	45.915	ug/l	96
69) o-Xylene	13.04	106	204000	23.686	ug/l	96
70) Styrene	13.06	104	334210	22.260	ug/l	97
71) Bromoform	13.23	173	87667	23.269	ug/l	100
73) Isopropylbenzene	13.40	105	548340	21.495	ug/l	99
74) N-amyl acetate	13.26	43	155275	21.850	ug/l	100
75) 1,1,2,2-Tetrachloroethane	13.69	83	119811	22.264	ug/l	95
76) 1,2,3-Trichloropropane	13.72	75	121914	23.026	ug/l	97
77) Bromobenzene	13.66	156	154460	20.424	ug/l	86
78) n-propylbenzene	13.76	91	602775	19.308	ug/l	93
79) 2-Chlorotoluene	13.83	91	369509	21.799	ug/l	97
80) 1,3,5-Trimethylbenzene	13.93	105	473533	23.924	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.46	75	31070	19.246	ug/l	93
82) 4-Chlorotoluene	13.94	91	441092	23.932	ug/l	93
83) tert-Butylbenzene	14.18	119	507241	20.506	ug/l	94
84) 1,2,4-Trimethylbenzene	14.23	105	453908	21.182	ug/l	98
85) sec-Butylbenzene	14.36	105	483512	18.400	ug/l	99
86) p-Isopropyltoluene	14.48	119	484348	21.797	ug/l	96
87) 1,3-Dichlorobenzene	14.45	146	270127	21.093	ug/l	96
88) 1,4-Dichlorobenzene	14.53	146	271208	21.716	ug/l	98
89) n-Butylbenzene	14.79	91	438066	21.479	ug/l	97
90) Hexachloroethane	15.00	117	132493	21.106	ug/l	88
91) 1,2-Dichlorobenzene	14.80	146	234328	22.307	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.37	75	14507	22.985	ug/l	68

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Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration

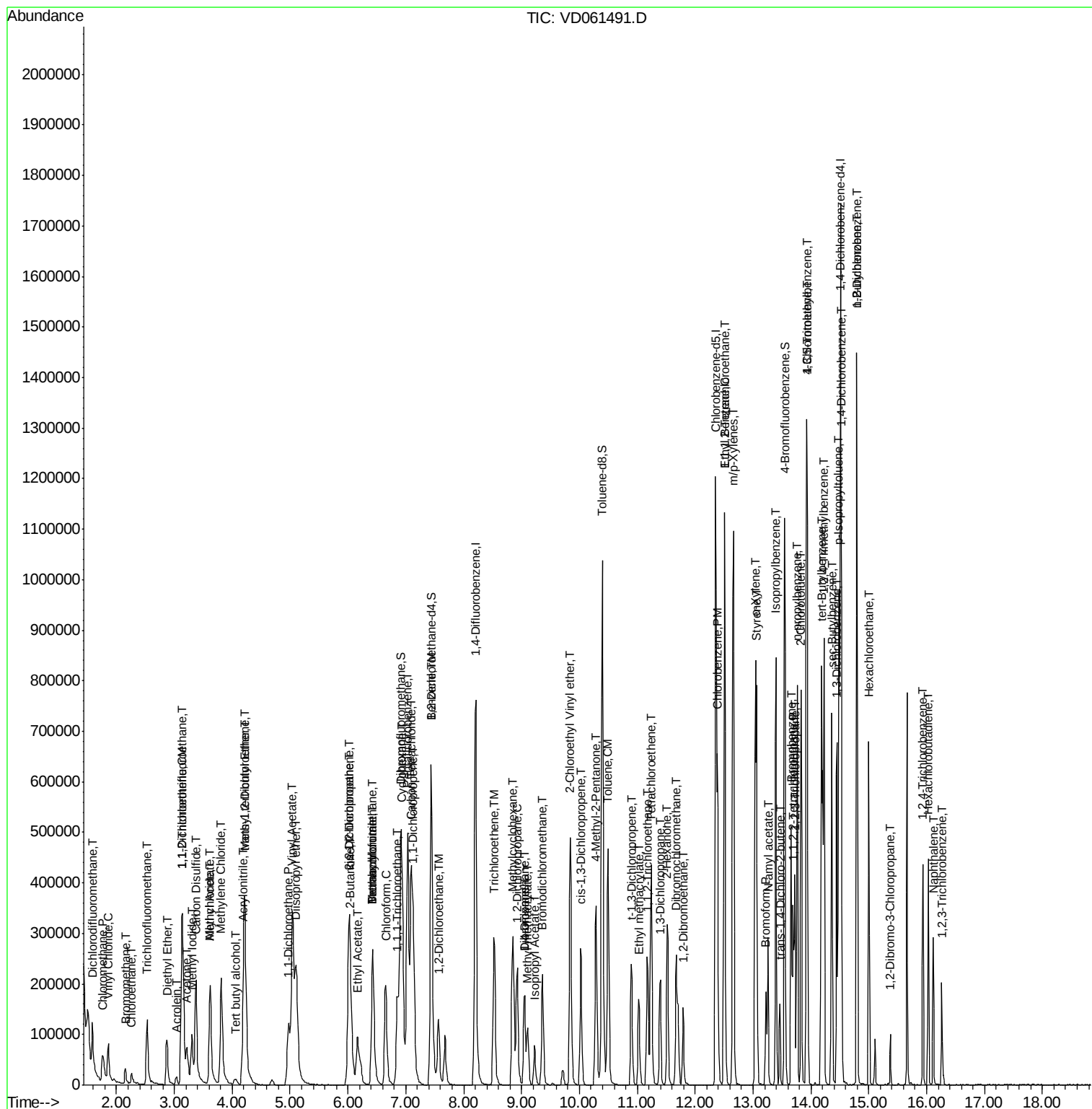
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	104376	21.812	ug/l	98
94) Hexachlorobutadiene	16.03	225	74880	20.025	ug/l	96
95) Naphthalene	16.11	128	173583	23.798	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	48801	23.175	ug/l	97

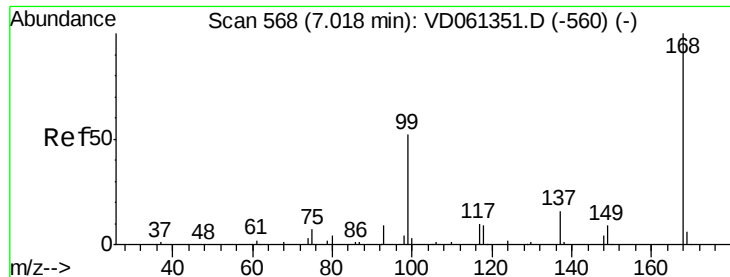
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

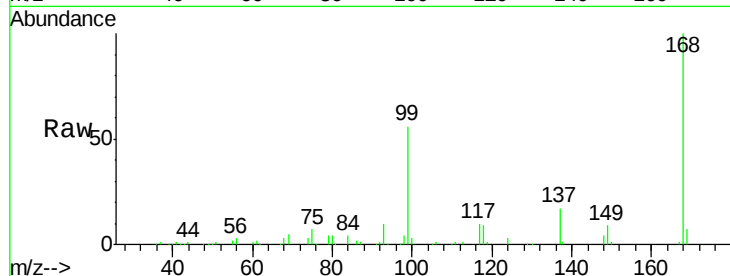
VD0401SBS02

Tot Ion:168 Resp: 541411

Ion Ratio Lower Upper

168 100

99 56.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

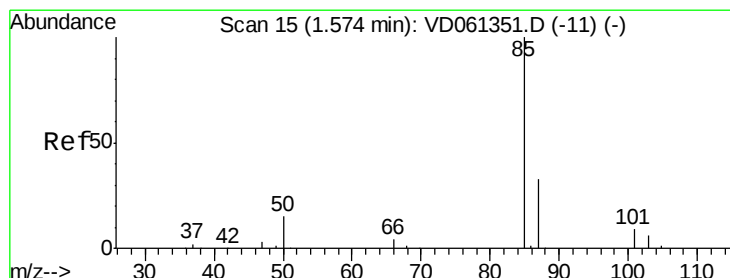
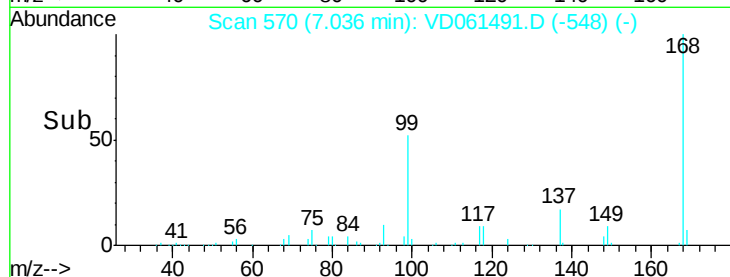
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.615 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD061491.D

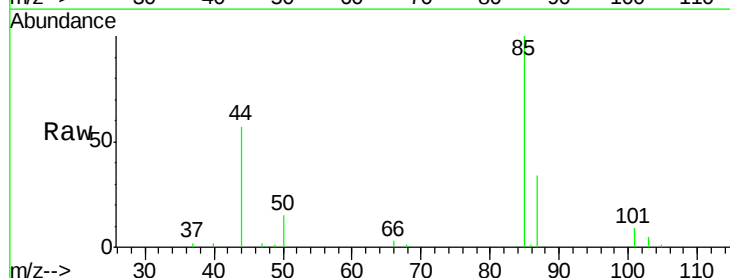
Acq: 2 Apr 2019 3:31

Tgt Ion: 85 Resp: 124981

Ion Ratio Lower Upper

85 100

87 34.0 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

60000

50000

40000

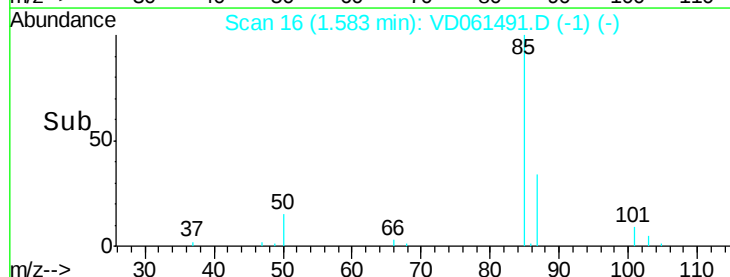
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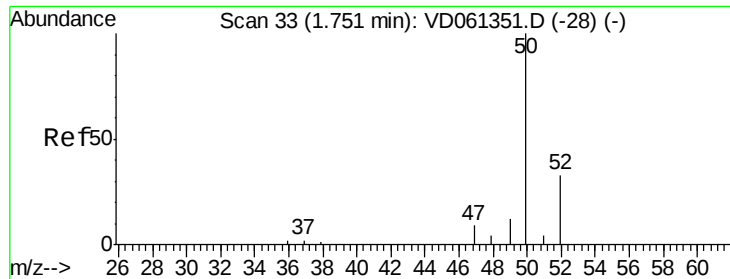
20000

10000

0

Time-->





#3

Chloromethane

Concen: 23.012 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

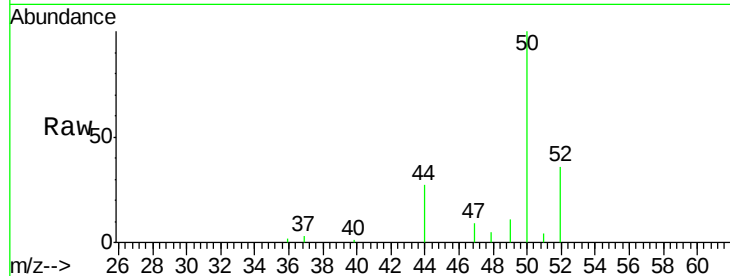
VD0401SBS02

Tot Ion: 50 Resp: 108517

Ion Ratio Lower Upper

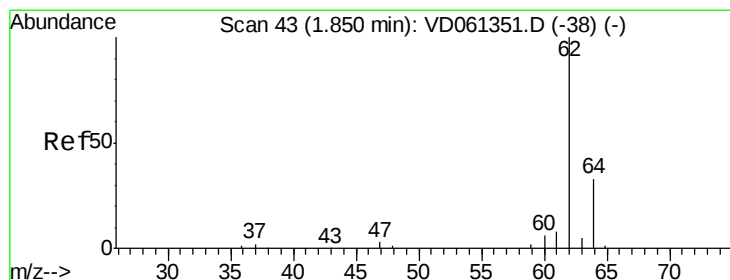
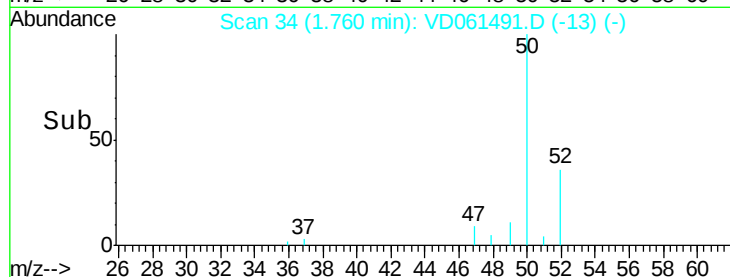
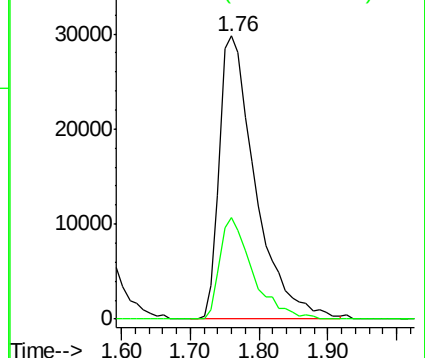
50 100

52 35.8 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.873 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.01 min

Lab File: VD061491.D

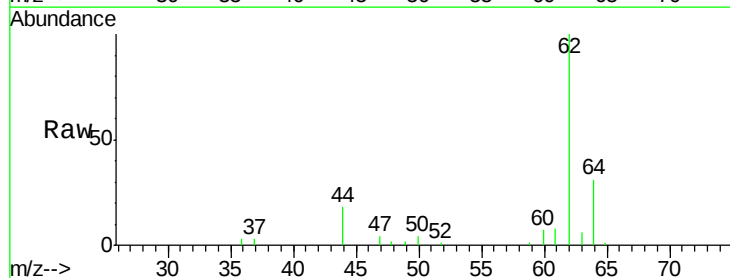
Acq: 2 Apr 2019 3:31

Tgt Ion: 62 Resp: 94706

Ion Ratio Lower Upper

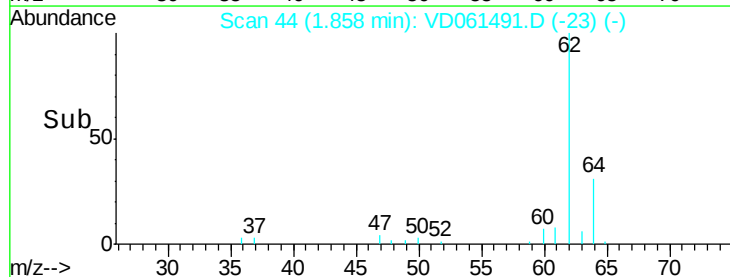
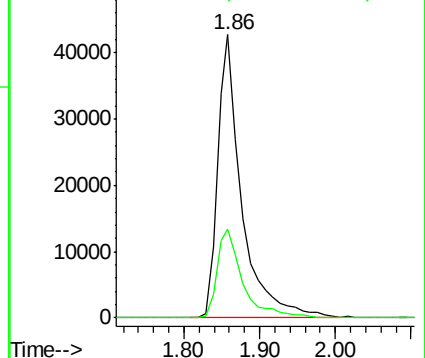
62 100

64 31.2 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 22.466 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

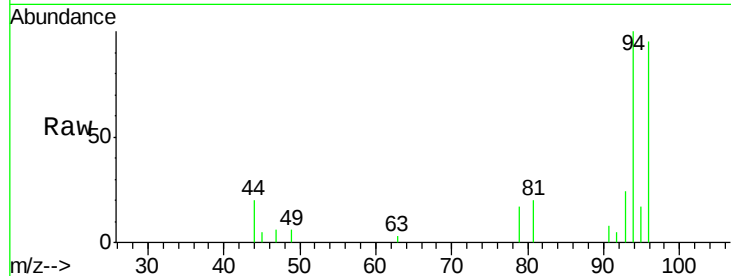
Tot Ion: 94 Resp: 19289

Ion Ratio Lower Upper

94 100

96 95.1 78.3 117.5

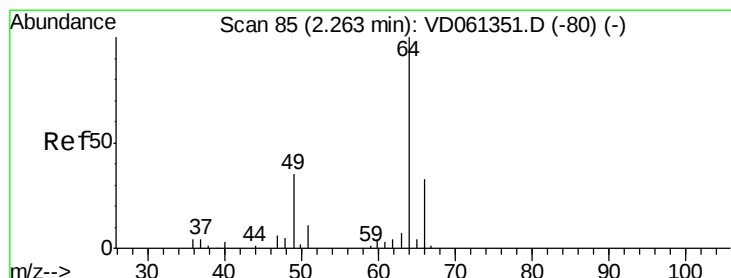
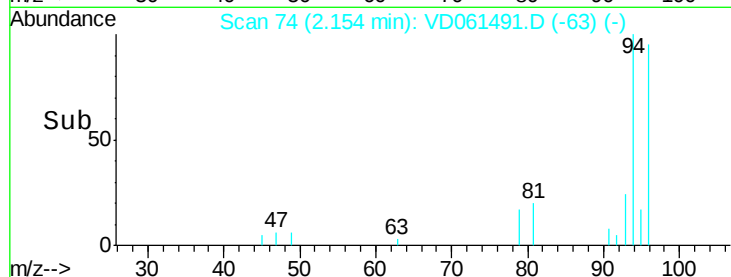
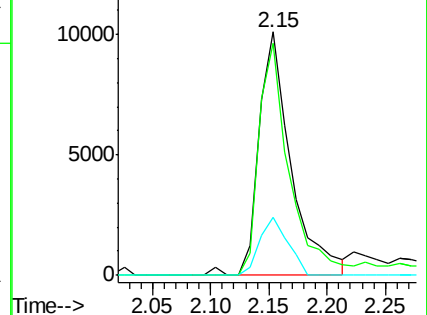
93 23.9 15.6 23.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 20.011 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.00 min

Lab File: VD061491.D

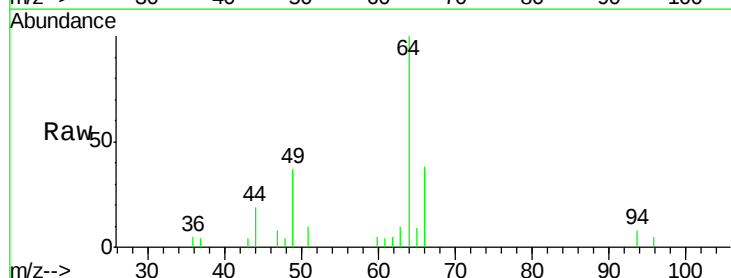
Acq: 2 Apr 2019 3:31

Tgt Ion: 64 Resp: 25408

Ion Ratio Lower Upper

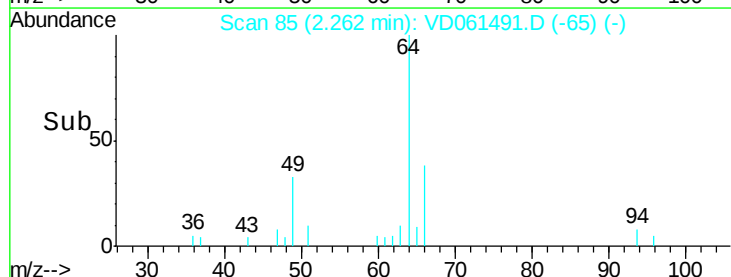
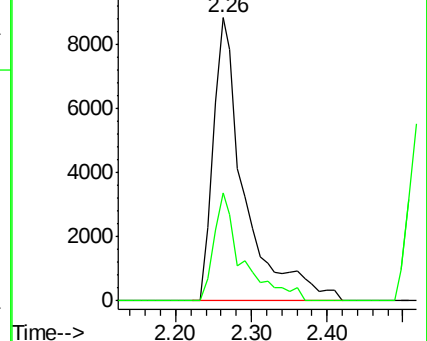
64 100

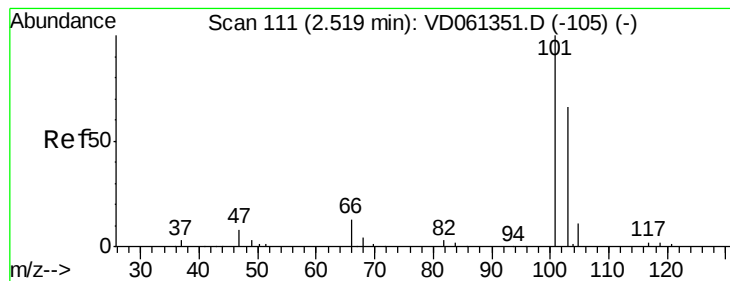
66 38.0 26.2 39.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



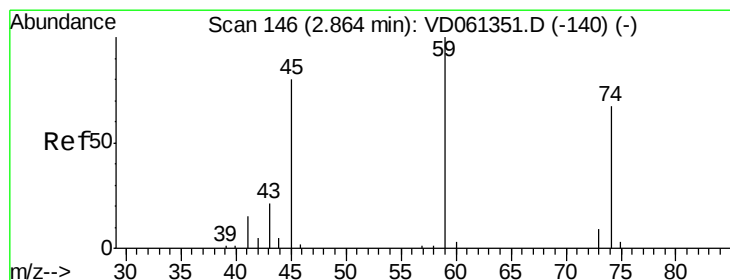
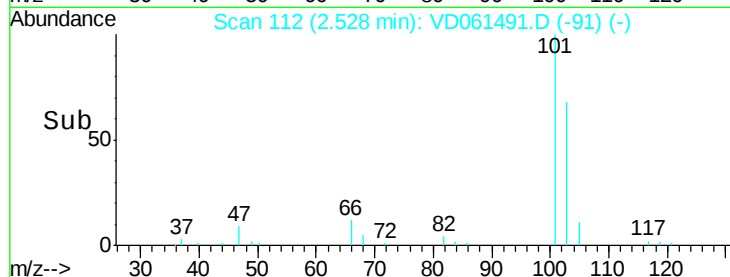
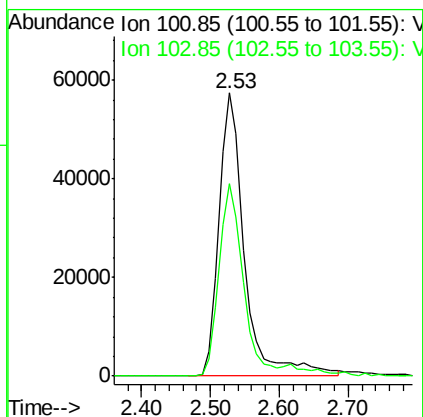
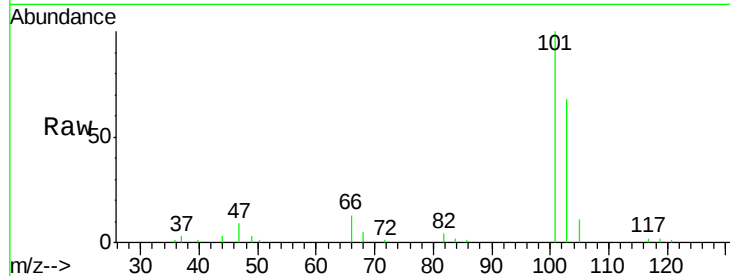


#7

Trichlorofluoromethane
 Concen: 23.442 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Instrument :
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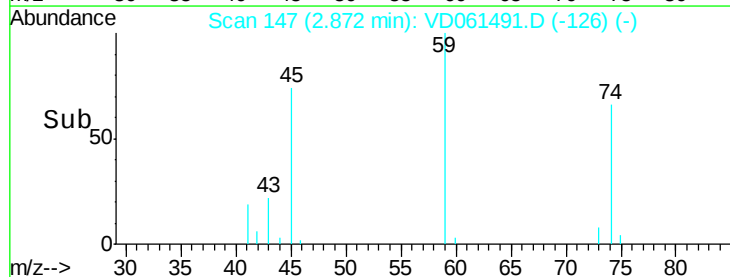
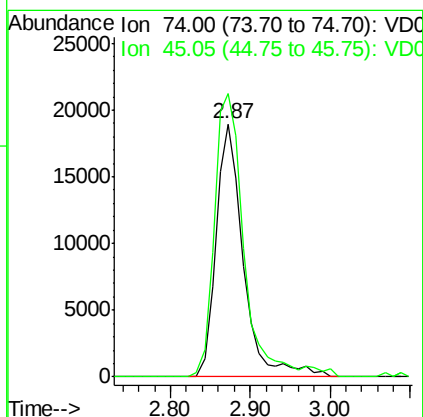
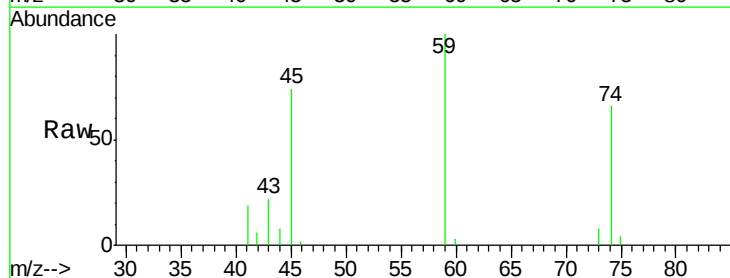
Tot Ion:101 Resp: 147589
 Ion Ratio Lower Upper
 101 100
 103 68.1 53.1 79.7

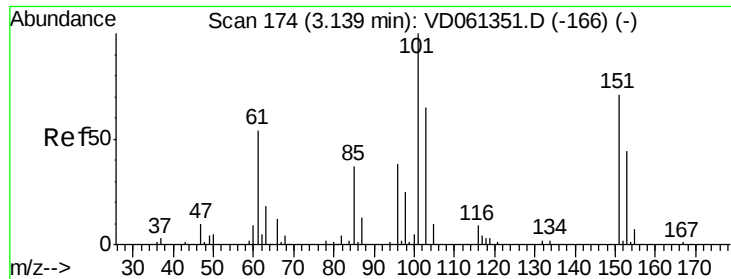


#8

Diethyl Ether
 Concen: 22.419 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion: 74 Resp: 45445
 Ion Ratio Lower Upper
 74 100
 45 112.0 59.7 179.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.300 ug/l

RT: 3.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

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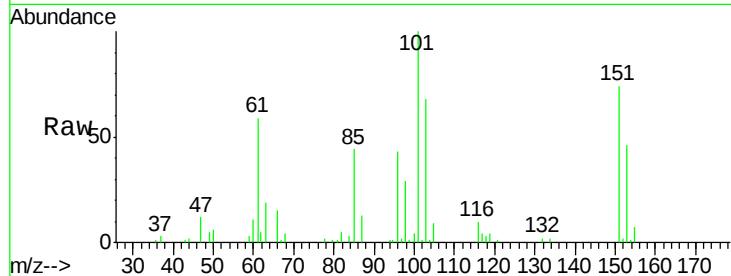
Tot Ion:101 Resp: 144176

Ion Ratio Lower Upper

101 100

85 43.7 29.4 44.0

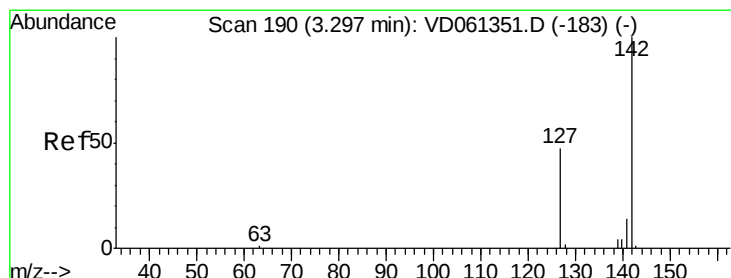
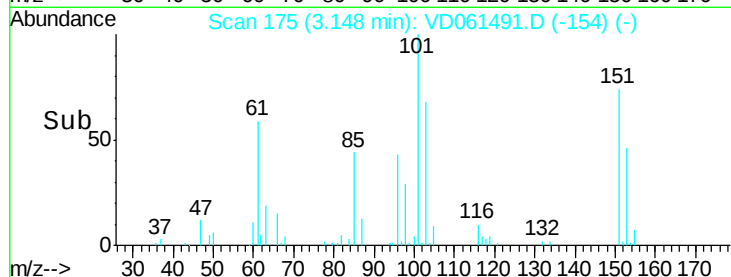
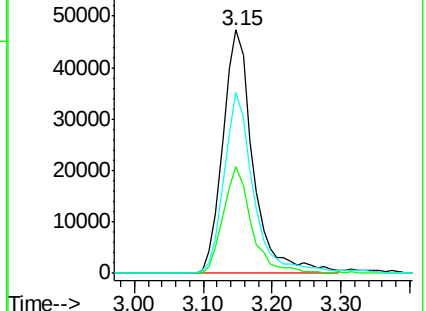
151 74.1 57.0 85.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 19.921 ug/l

RT: 3.31 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

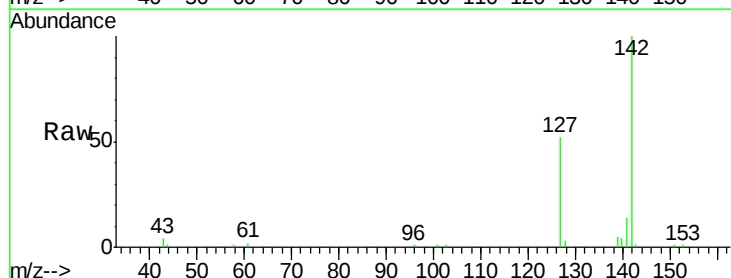
Tgt Ion:142 Resp: 181940

Ion Ratio Lower Upper

142 100

127 51.7 37.7 56.5

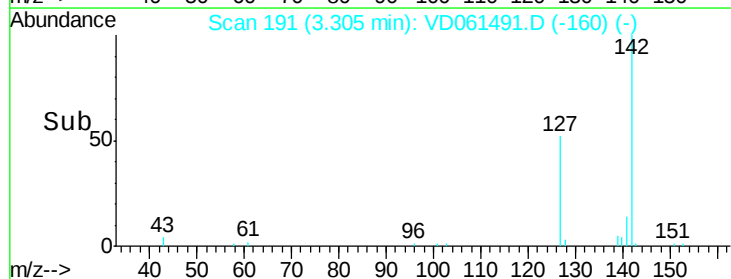
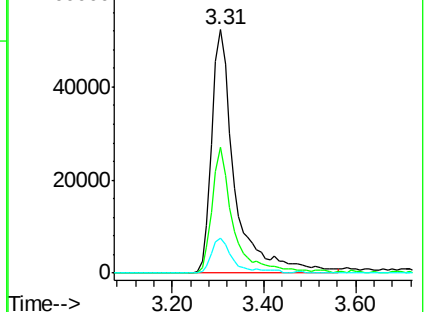
141 14.3 11.5 17.3

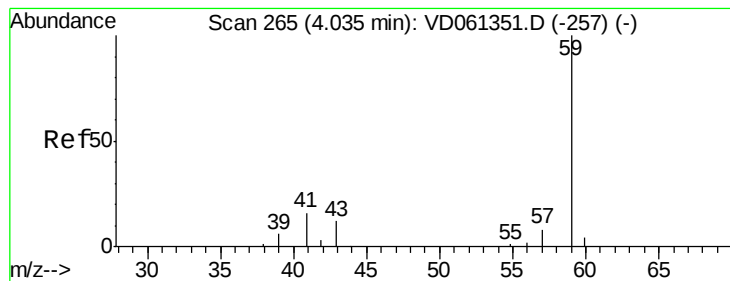


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



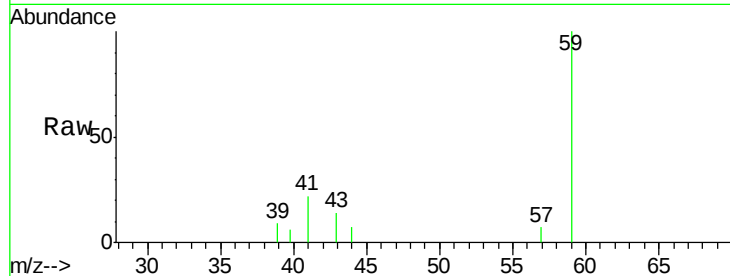


#11

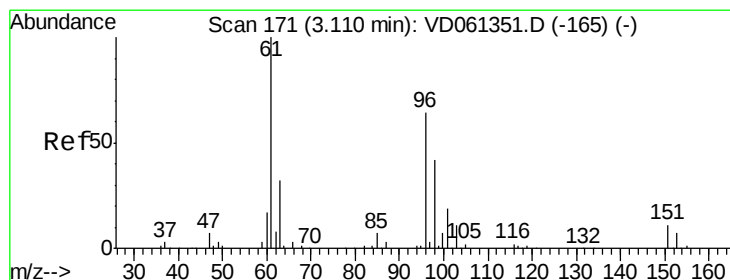
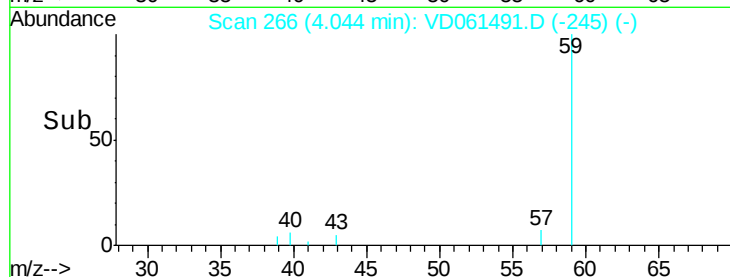
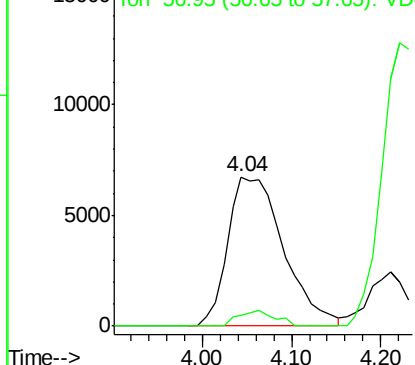
Tert butyl alcohol
 Concen: 102.324 ug/l
 RT: 4.04 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0401SBS02

Tot Ion: 59 Resp: 29472
 Ion Ratio Lower Upper
 59 100
 57 6.9 6.7 10.1



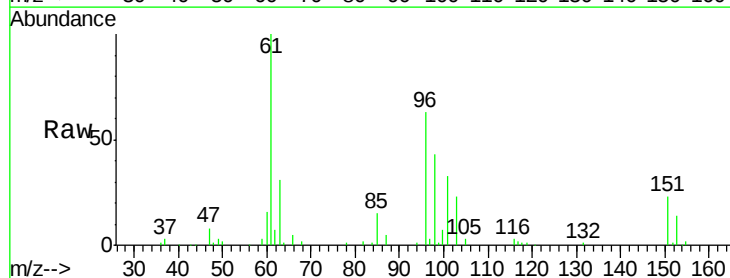
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



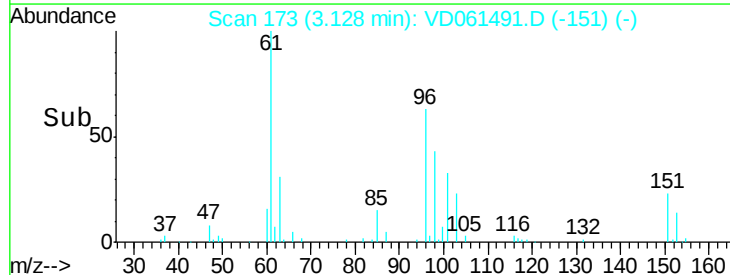
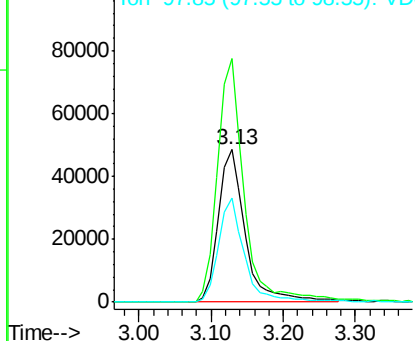
#12

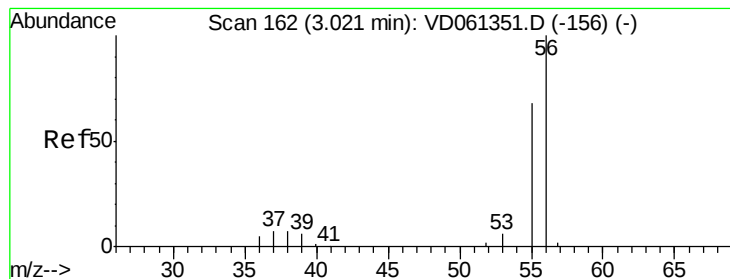
1,1-Dichloroethene
 Concen: 21.670 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. 0.02 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion: 96 Resp: 125928
 Ion Ratio Lower Upper
 96 100
 61 159.5 124.9 187.3
 98 68.5 52.5 78.7



Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 77.996 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

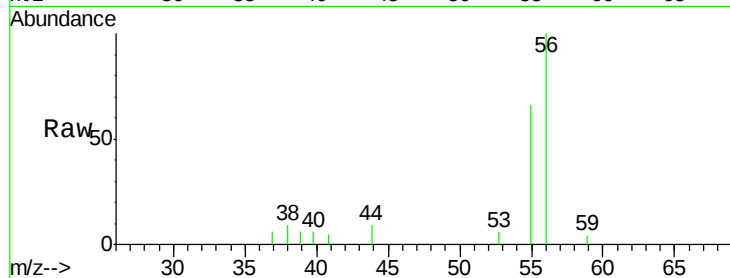
VD0401SBS02

Tot Ion: 56 Resp: 20576

Ion Ratio Lower Upper

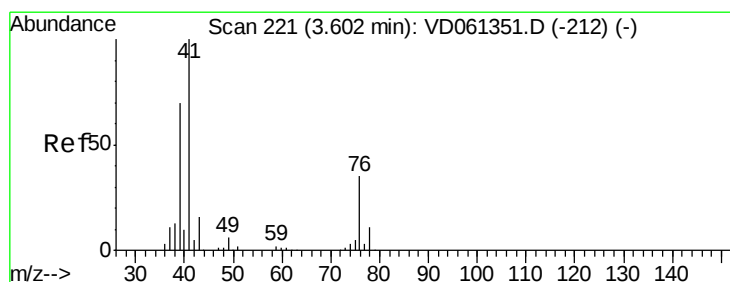
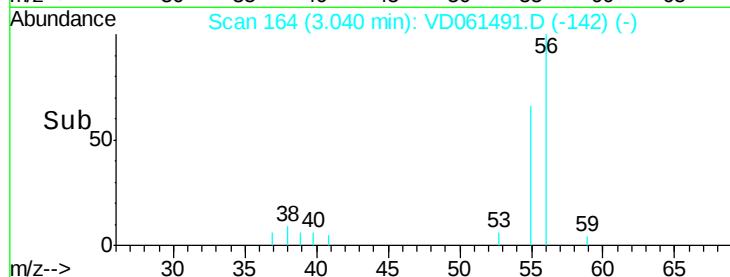
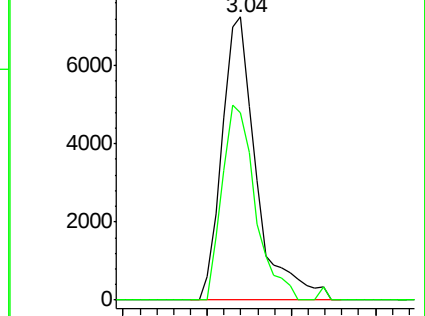
56 100

55 66.0 54.6 82.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.317 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

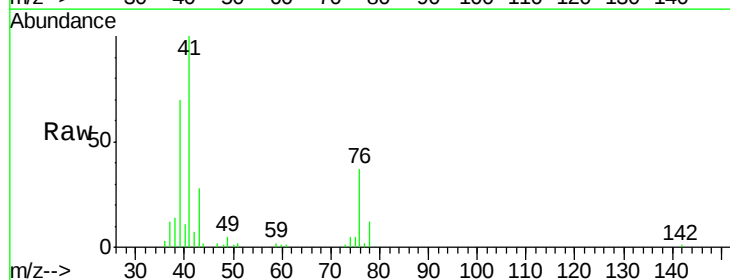
Tgt Ion: 41 Resp: 172785

Ion Ratio Lower Upper

41 100

39 69.6 55.6 83.4

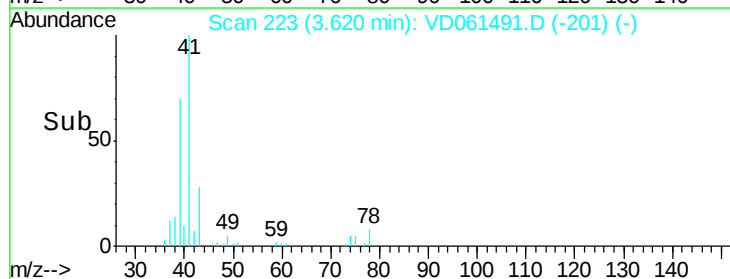
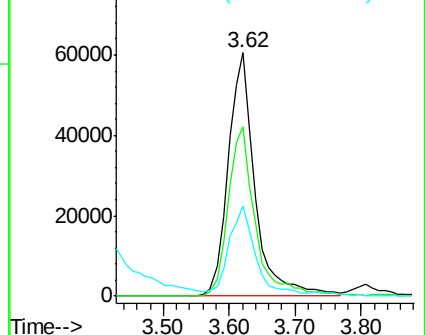
76 37.0 31.0 46.6



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 117.287 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

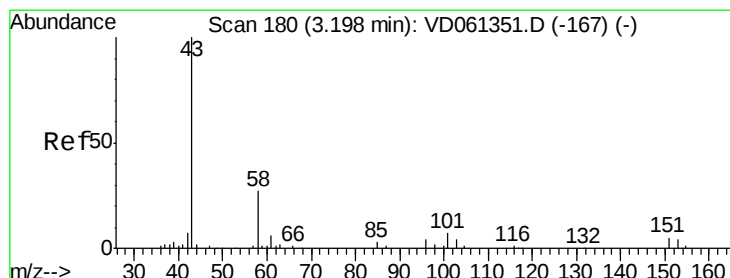
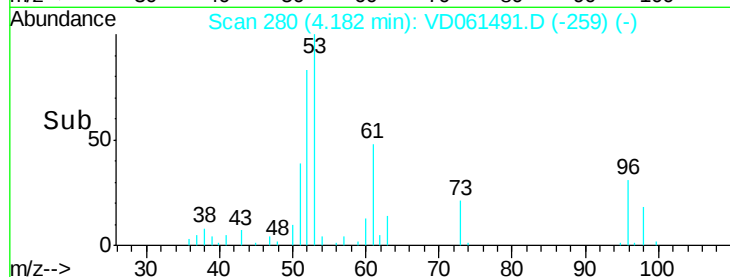
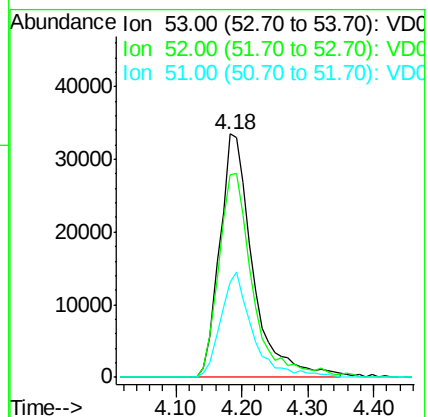
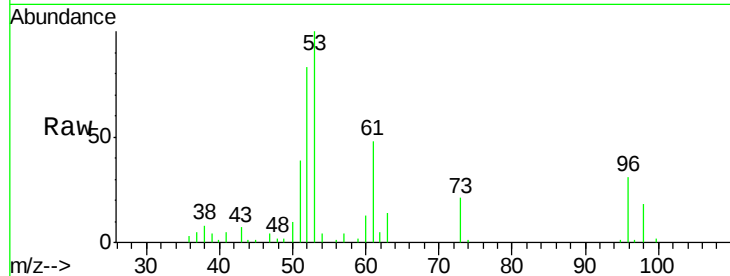
Tot Ion: 53 Resp: 117250

Ion Ratio Lower Upper

53 100

52 83.3 64.8 97.2

51 38.8 31.4 47.2



#16

Acetone

Concen: 100.994 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD061491.D

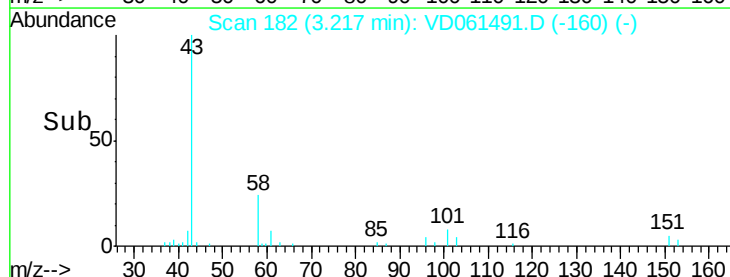
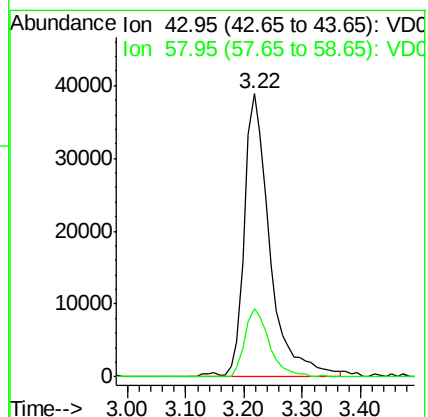
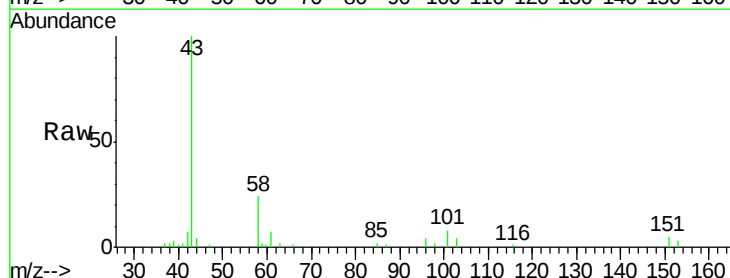
Acq: 2 Apr 2019 3:31

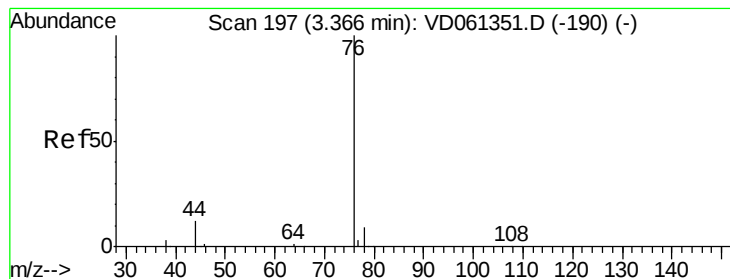
Tgt Ion: 43 Resp: 120074

Ion Ratio Lower Upper

43 100

58 24.4 21.5 32.3





#17

Carbon Disulfide

Concen: 20.774 ug/l

RT: 3.37 min Scan# 198

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

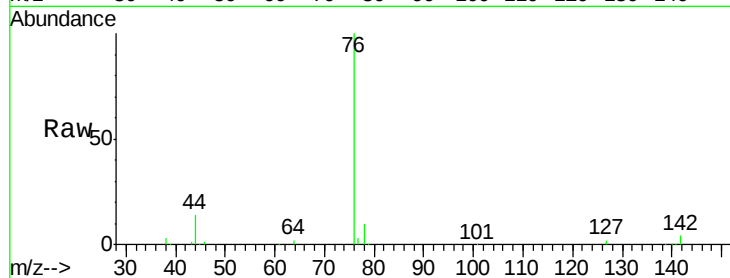
VD0401SBS02

Tot Ion: 76 Resp: 392242

Ion Ratio Lower Upper

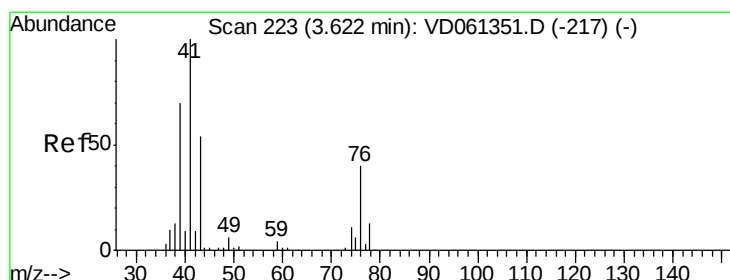
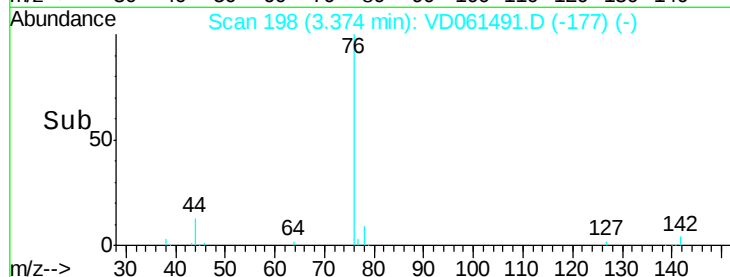
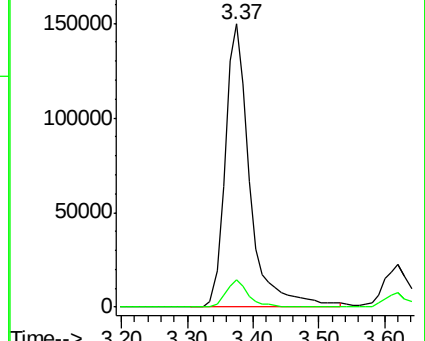
76 100

78 9.7 7.1 10.7



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 25.328 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD061491.D

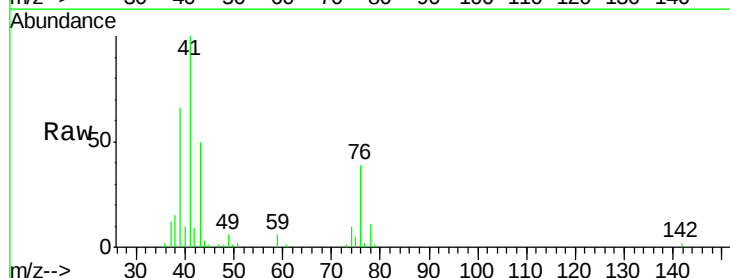
Acq: 2 Apr 2019 3:31

Tgt Ion: 43 Resp: 63314

Ion Ratio Lower Upper

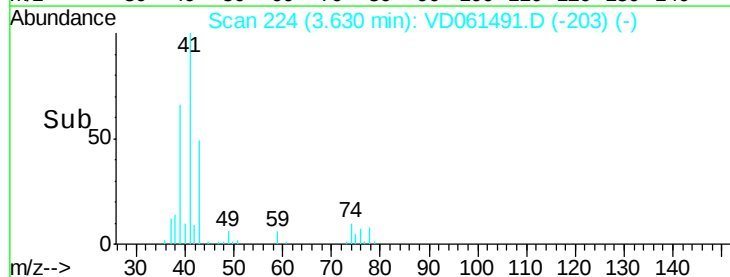
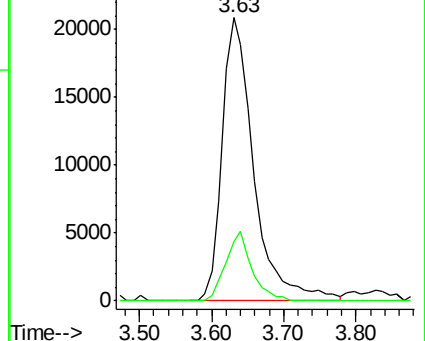
43 100

74 20.8 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

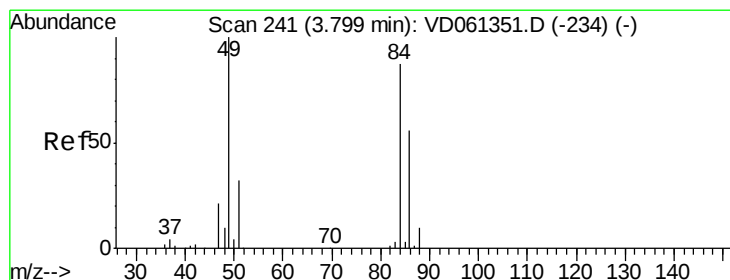
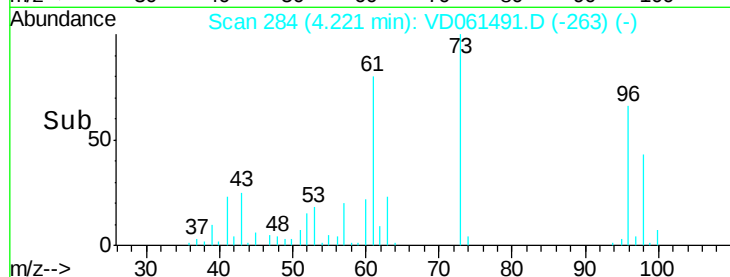
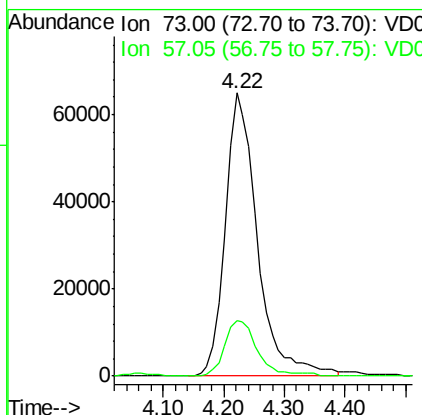
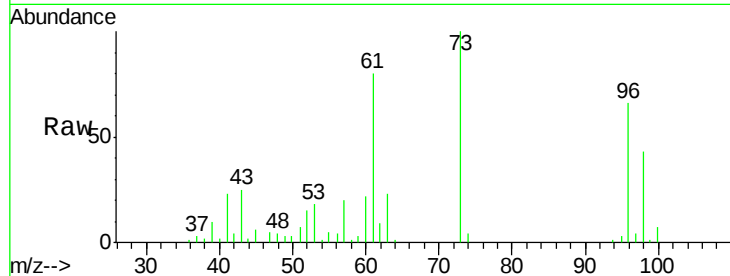




#19
Methvl tert-butvl Ether
Concen: 23.724 ug/l
RT: 4.22 min Scan# 284
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

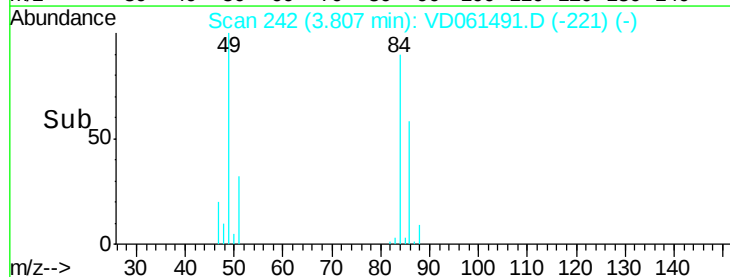
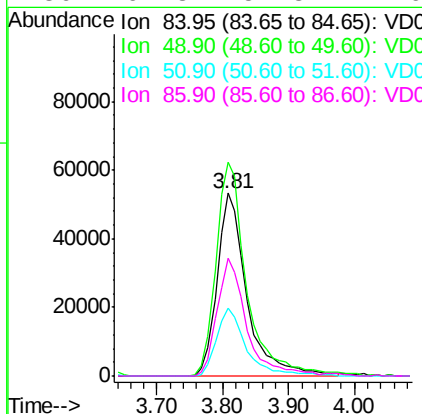
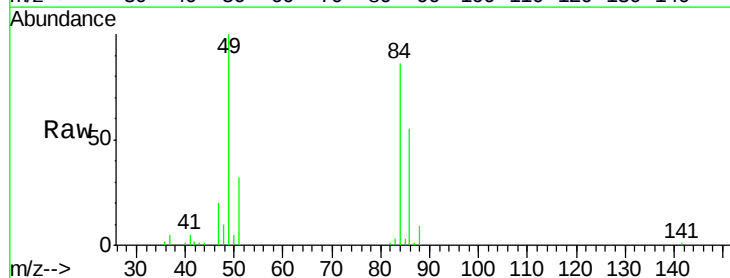
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

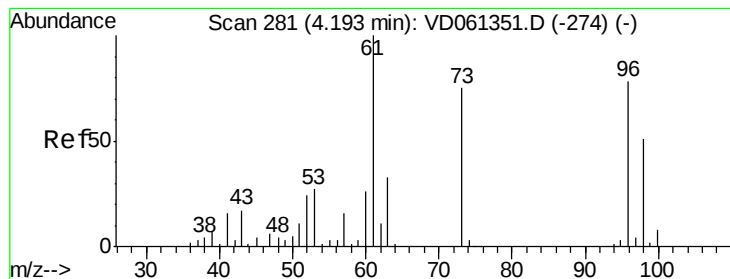
Tot Ion: 73 Resp: 238654
Ion Ratio Lower Upper
73 100
57 19.7 16.4 24.6



#20
Methylene Chloride
Concen: 24.087 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 84 Resp: 167052
Ion Ratio Lower Upper
84 100
49 116.9 91.8 137.8
51 36.9 29.8 44.8
86 64.3 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 22.779 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

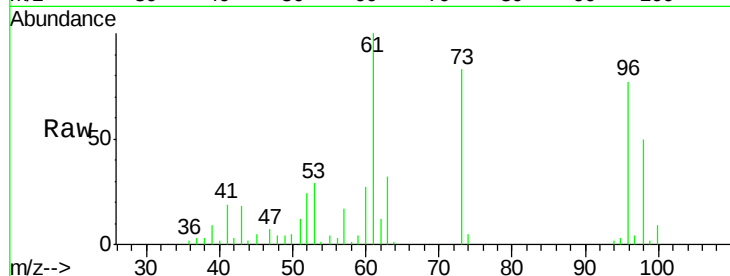
Tot Ion: 96 Resp: 142917

Ion Ratio Lower Upper

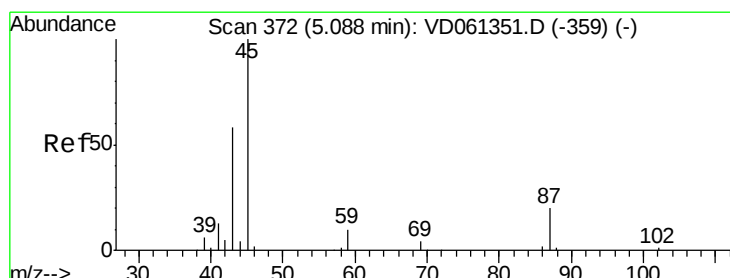
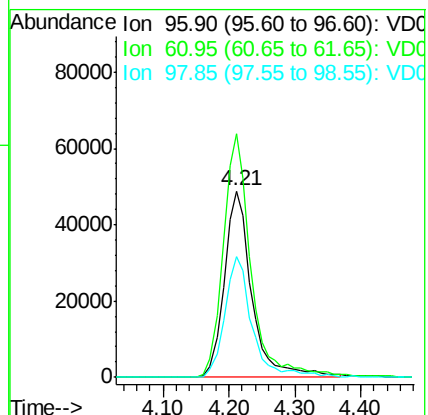
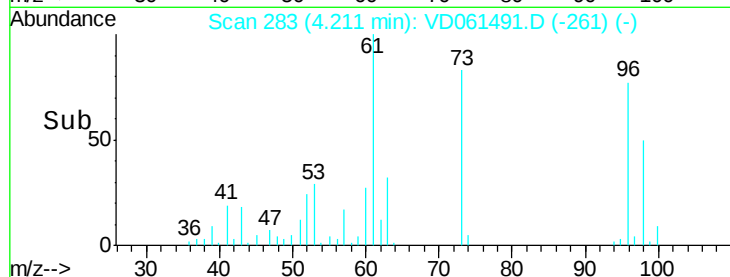
96 100

61 130.6 102.7 154.1

98 65.1 52.2 78.4



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 23.678 ug/l

RT: 5.10 min Scan# 373

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Tgt Ion: 45 Resp: 406128

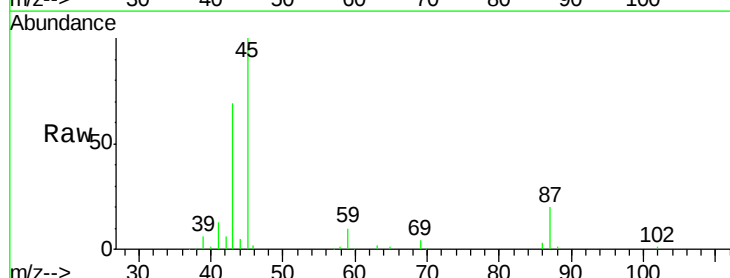
Ion Ratio Lower Upper

45 100

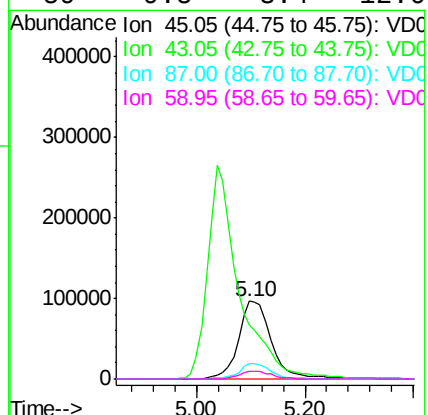
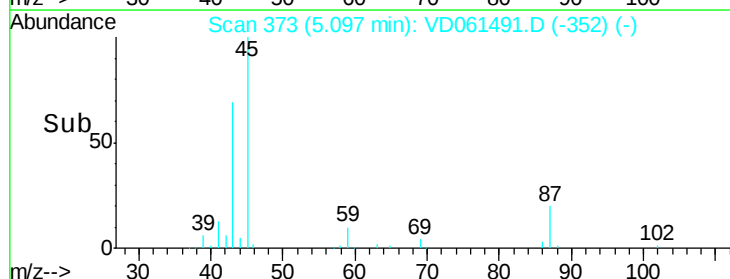
43 69.1 47.4 71.2

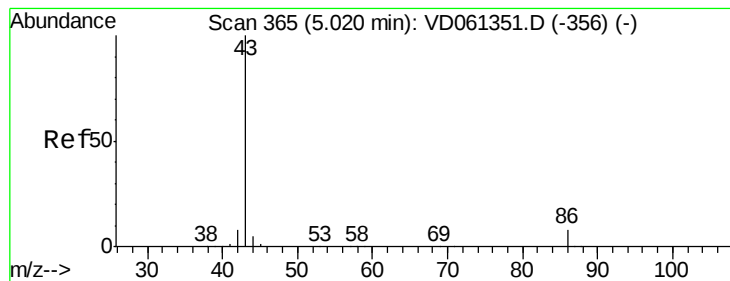
87 20.0 16.3 24.5

59 9.5 8.4 12.6



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 114.099 ug/l

RT: 5.04 min Scan# 367

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

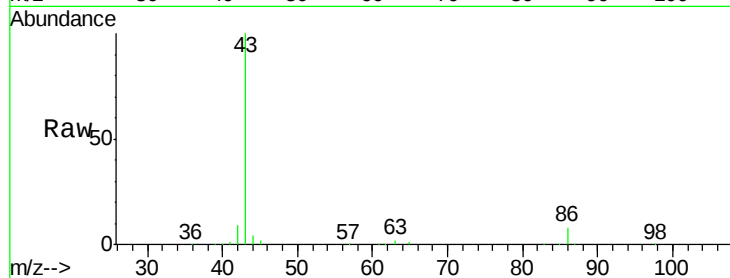
VD0401SBS02

Tot Ion: 43 Resp: 1063071

Ion Ratio Lower Upper

43 100

86 8.1 6.7 10.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.04

250000

200000

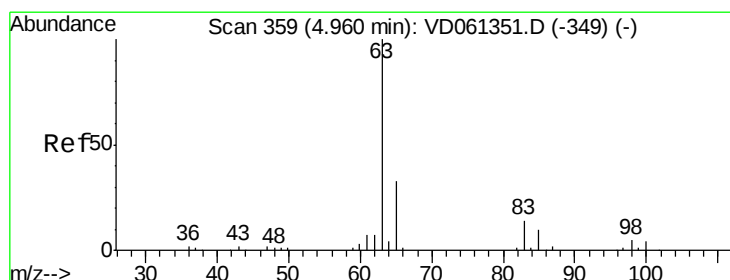
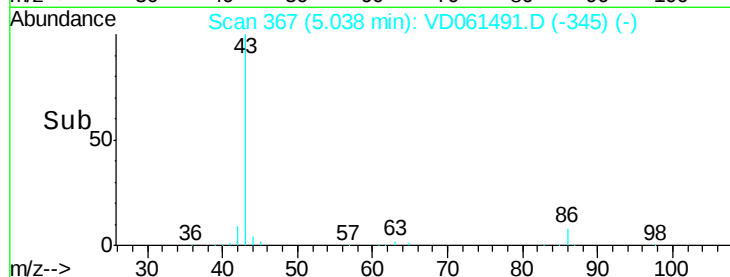
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.412 ug/l

RT: 4.98 min Scan# 361

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

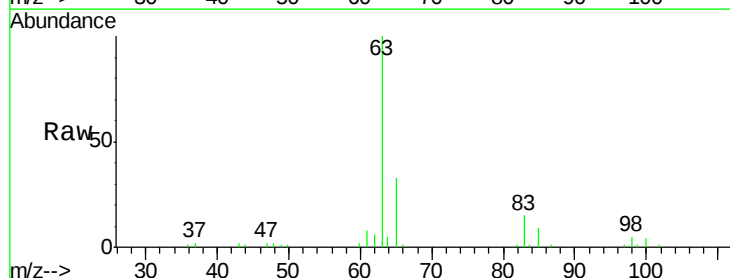
Tgt Ion: 63 Resp: 225921

Ion Ratio Lower Upper

63 100

98 5.9 2.6 8.0

100 4.0 1.8 5.3



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.98

80000

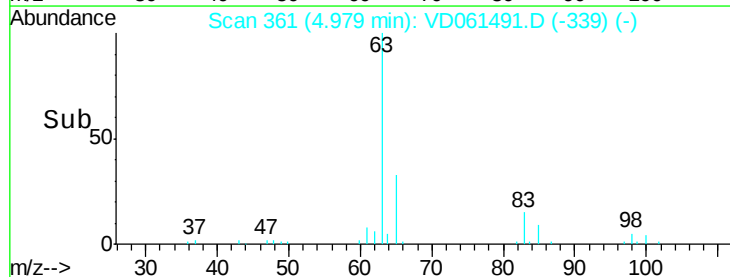
60000

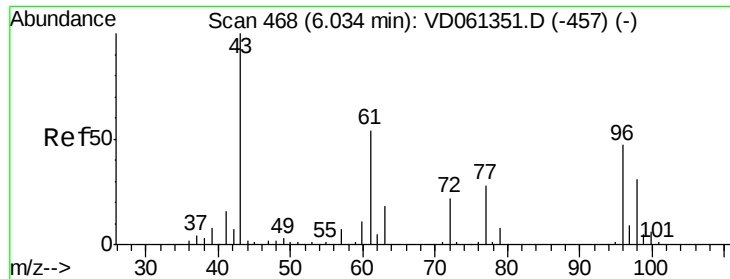
40000

20000

0

Time-->





#25

2-Butanone

Concen: 116.783 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

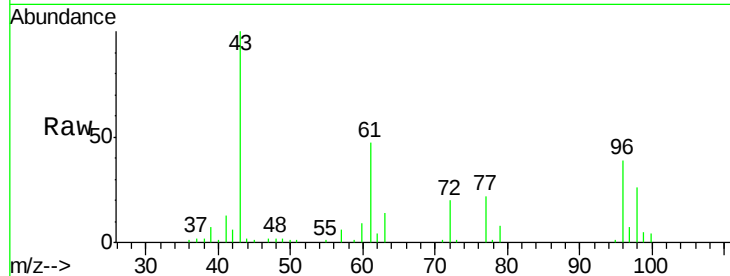
VD0401SBS02

Tot Ion: 43 Resp: 174656

Ion Ratio Lower Upper

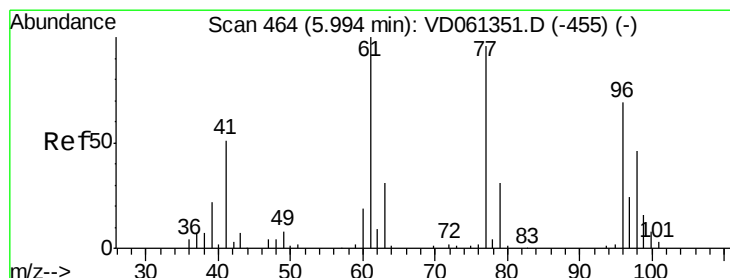
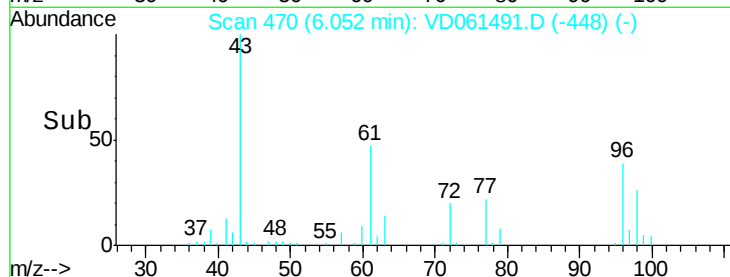
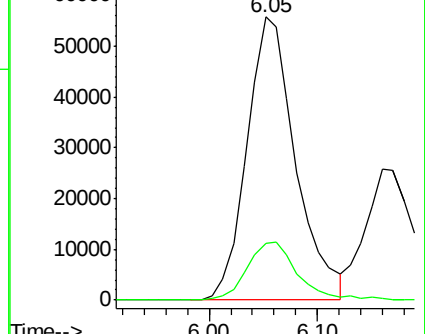
43 100

72 20.0 17.2 25.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.224 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.02 min

Lab File: VD061491.D

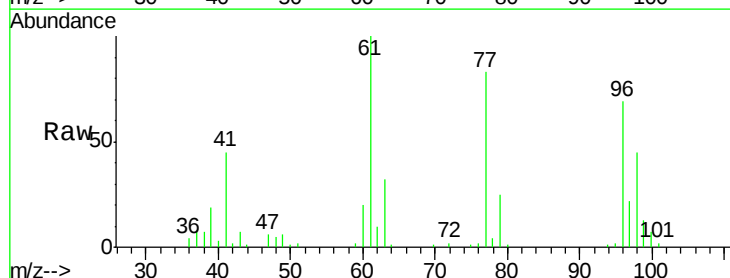
Acq: 2 Apr 2019 3:31

Tgt Ion: 77 Resp: 170073

Ion Ratio Lower Upper

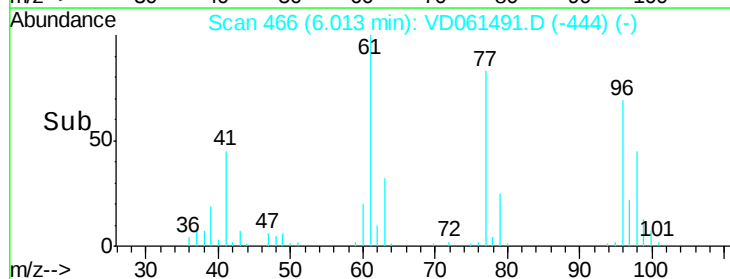
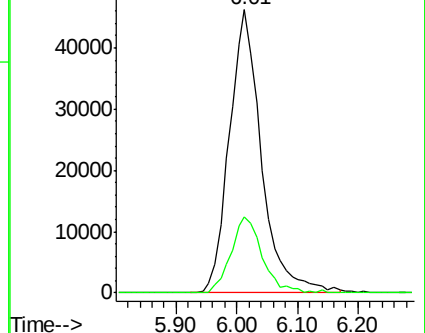
77 100

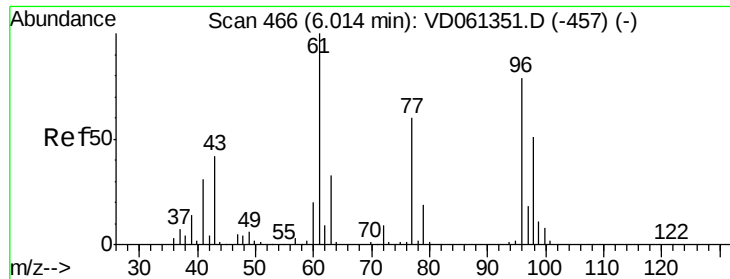
97 27.1 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



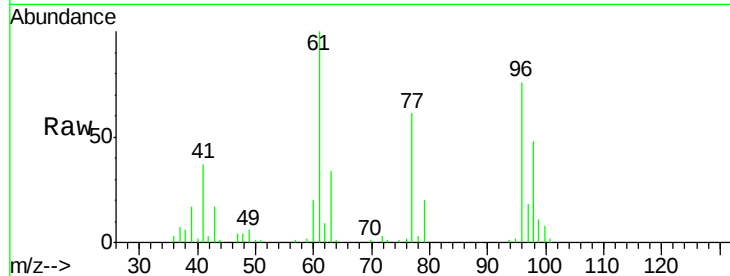


#27

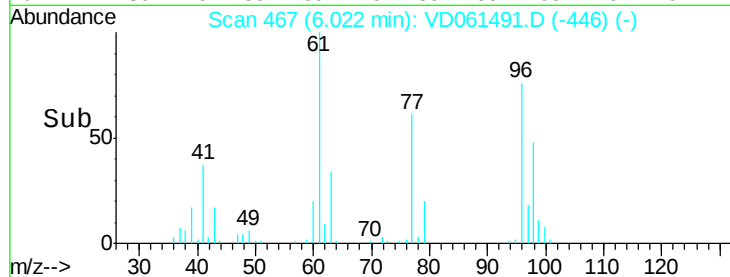
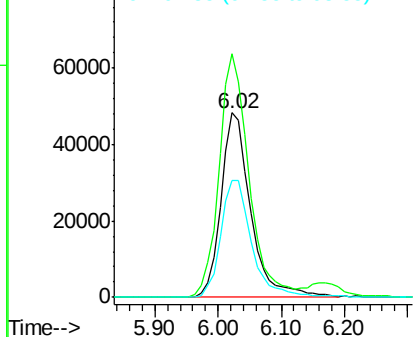
cis-1,2-Dichloroethene
Concen: 22.958 ug/l
RT: 6.02 min Scan# 467
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

Tot Ion: 96 Resp: 157814
Ion Ratio Lower Upper
96 100
61 132.0 0.0 251.6
98 63.6 0.0 129.2



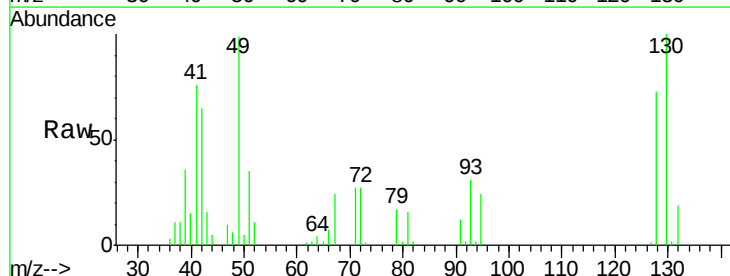
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



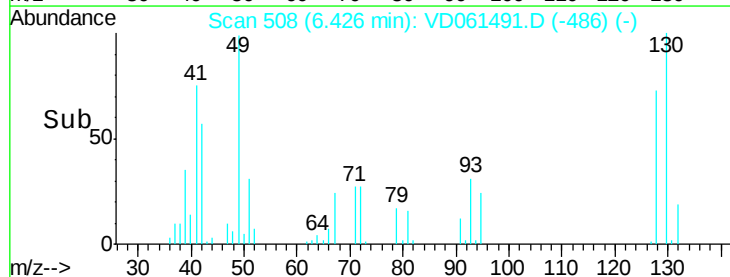
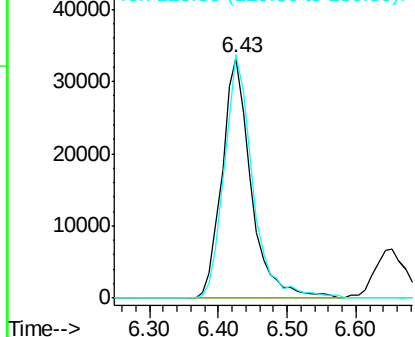
#28

Bromochloromethane
Concen: 23.787 ug/l
RT: 6.43 min Scan# 508
Delta R.T. 0.02 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 49 Resp: 96792
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 101.4 78.4 117.6



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

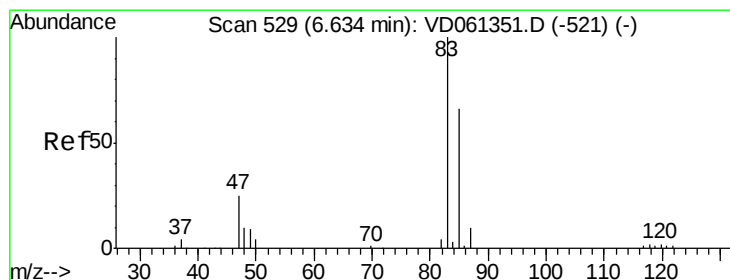
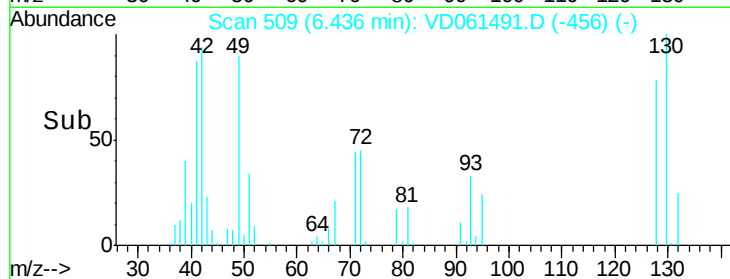
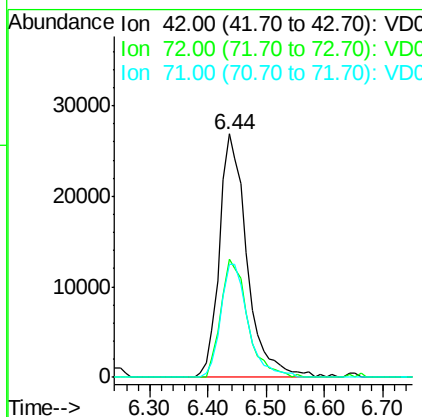
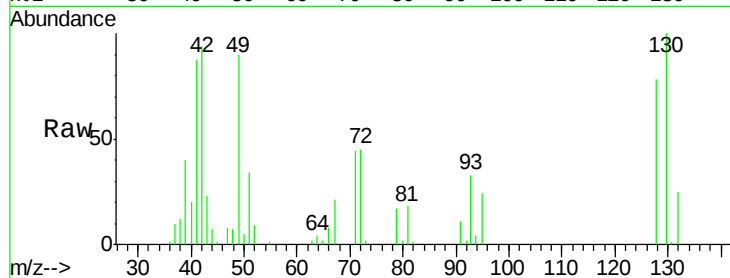




#29
Tetrahydrofuran
Concen: 122.222 ug/l
RT: 6.44 min Scan# 509
Delta R.T. 0.02 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

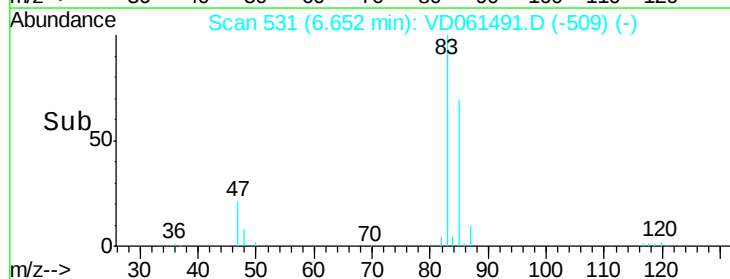
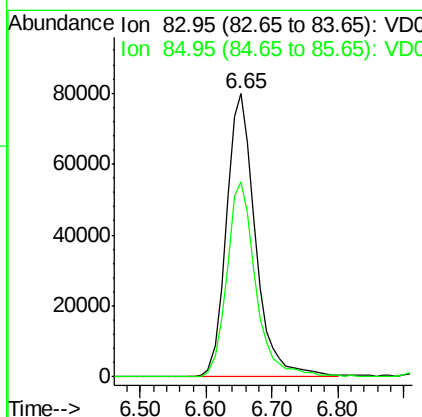
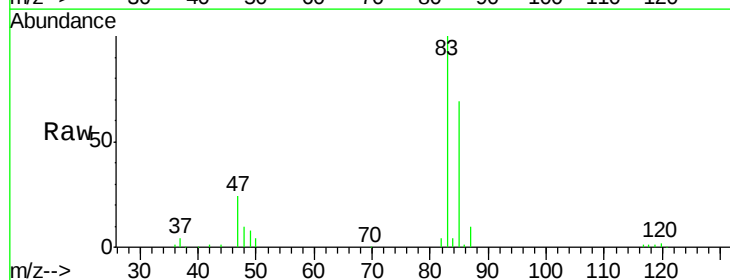
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

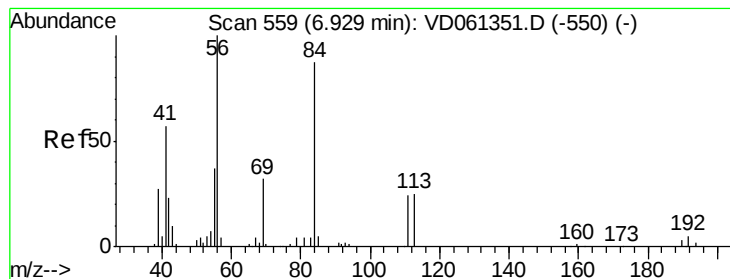
Tot Ion: 42 Resp: 88597
Ion Ratio Lower Upper
42 100
72 46.9 37.4 56.0
71 45.7 36.7 55.1



#30
Chloroform
Concen: 23.661 ug/l
RT: 6.65 min Scan# 531
Delta R.T. 0.02 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 83 Resp: 246444
Ion Ratio Lower Upper
83 100
85 69.0 53.0 79.4





#31

Cyclohexane

Concen: 22.172 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

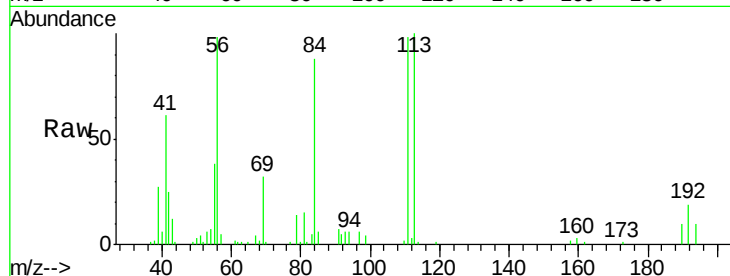
Tot Ion: 56 Resp: 176618

Ion Ratio Lower Upper

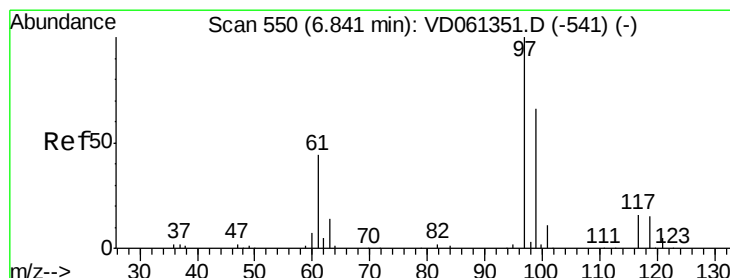
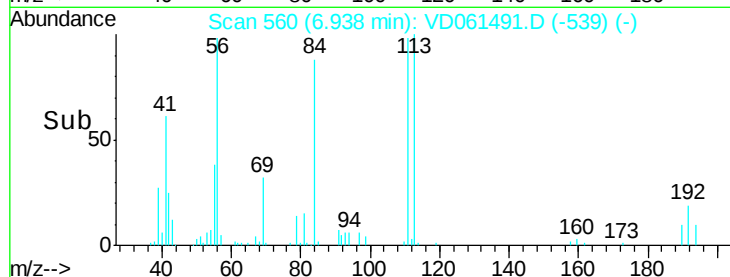
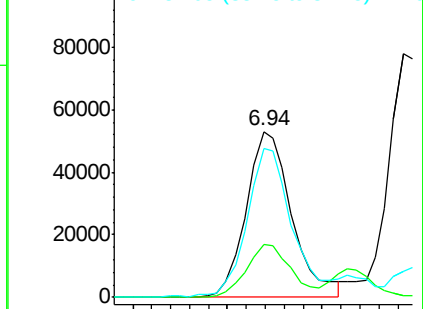
56 100

69 32.2 25.7 38.5

84 90.1 70.6 105.8



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 22.139 ug/l

RT: 6.85 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

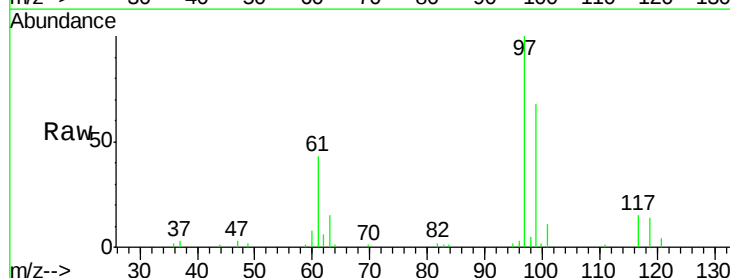
Tgt Ion: 97 Resp: 203436

Ion Ratio Lower Upper

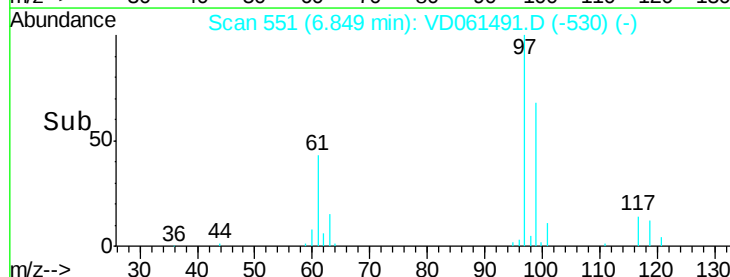
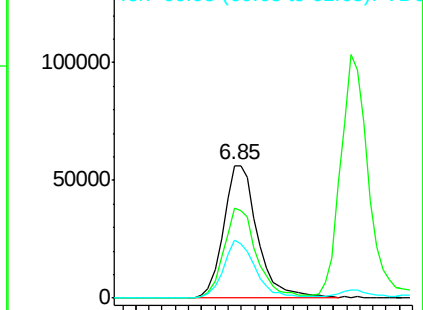
97 100

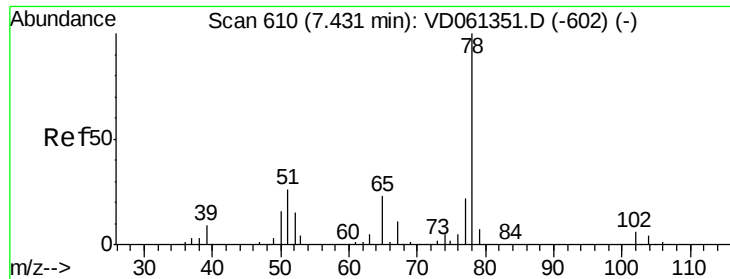
99 67.5 53.1 79.7

61 43.4 35.5 53.3



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 22.139 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

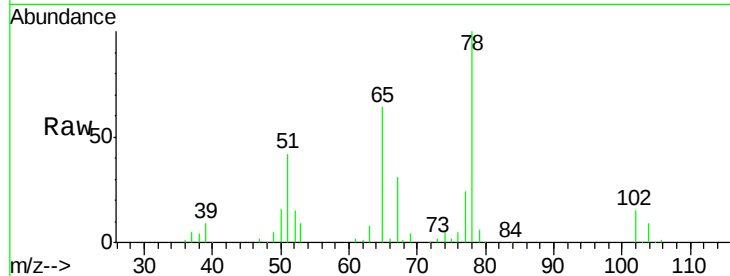
VD0401SBS02

Tot Ion: 65 Resp: 281013

Ion Ratio Lower Upper

65 100

67 48.0 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

100000

80000

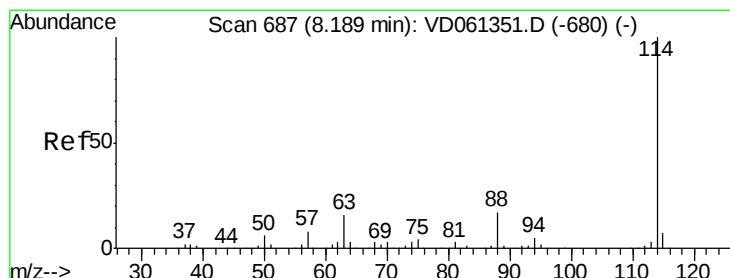
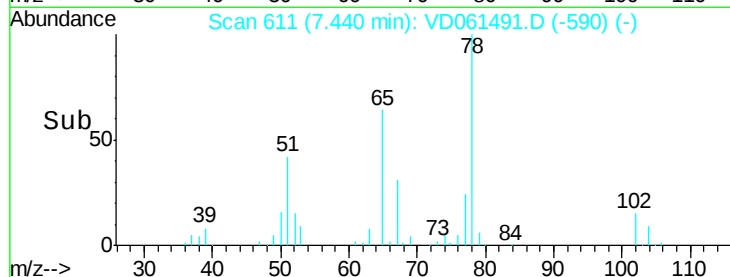
60000

40000

20000

0

Time--> 7.30 7.40 7.50



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

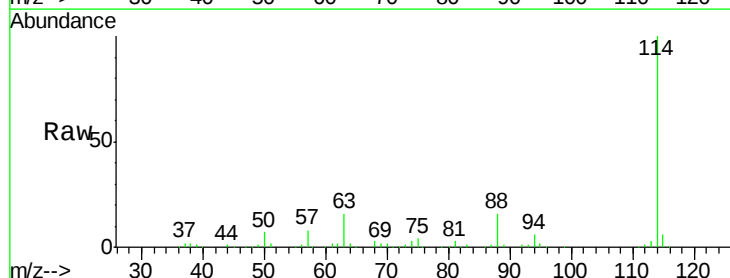
Tgt Ion: 114 Resp: 955585

Ion Ratio Lower Upper

114 100

63 16.0 0.0 31.6

88 15.8 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

500000

400000

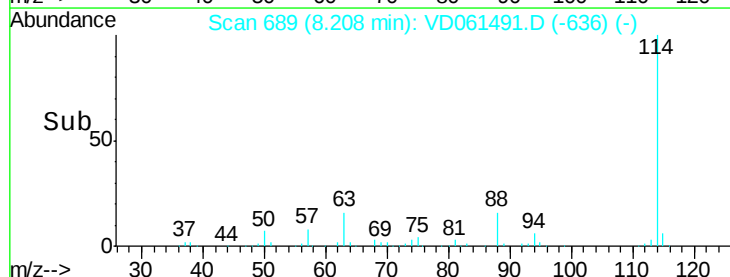
300000

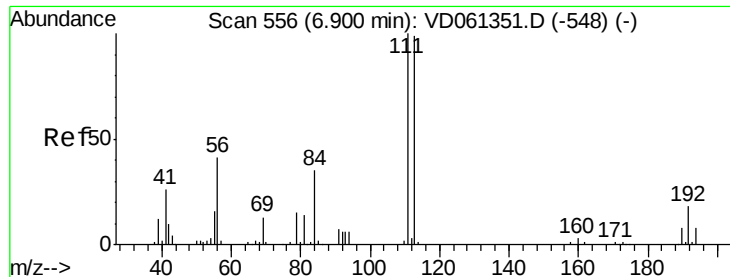
200000

100000

0

Time--> 8.00 8.20 8.40





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.91 min Scan# 557

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

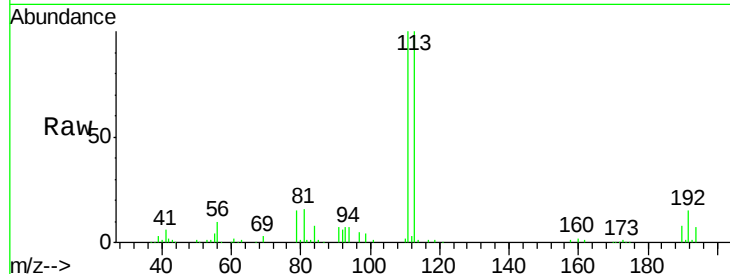
Tot Ion:113 Resp: 410241

Ion Ratio Lower Upper

113 100

111 100.3 81.0 121.6

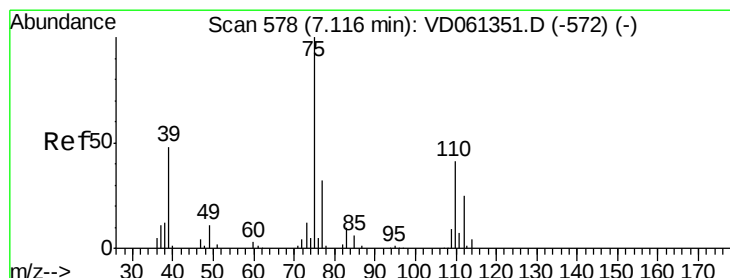
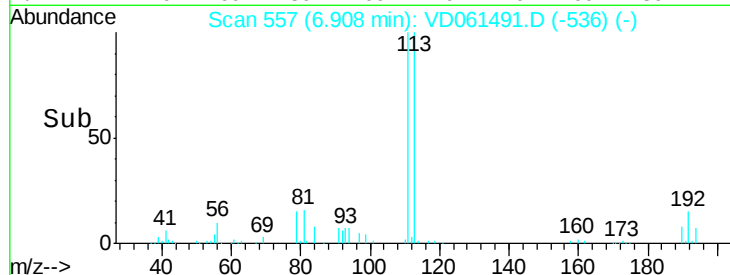
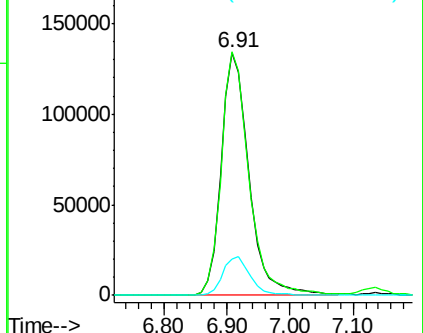
192 15.2 14.4 21.6



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 20.493 ug/l

RT: 7.13 min Scan# 580

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

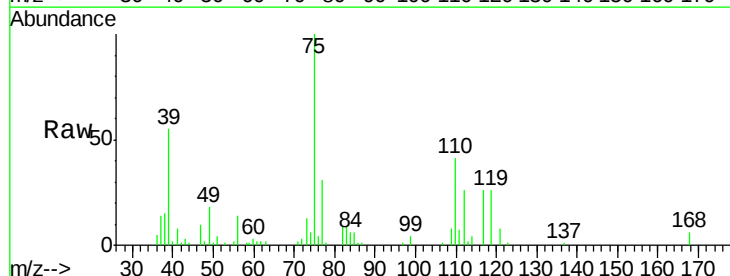
Tgt Ion: 75 Resp: 170914

Ion Ratio Lower Upper

75 100

110 40.8 20.4 61.3

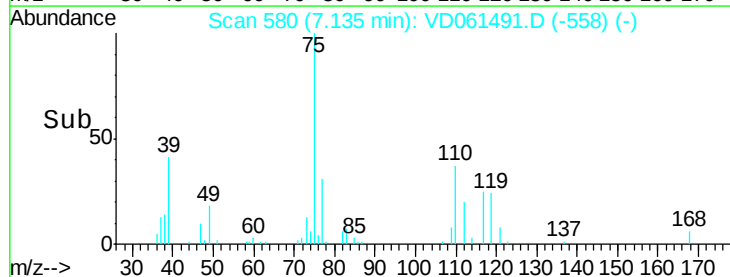
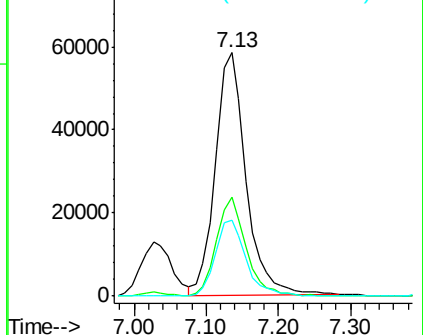
77 31.3 24.9 37.3

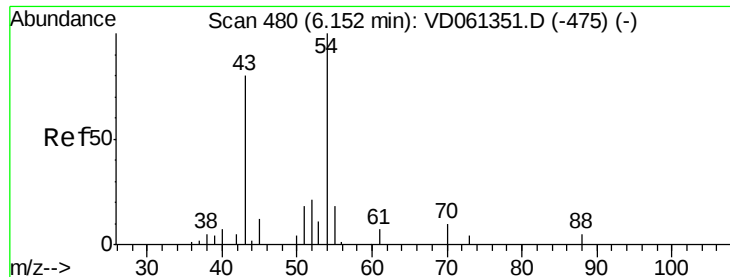


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

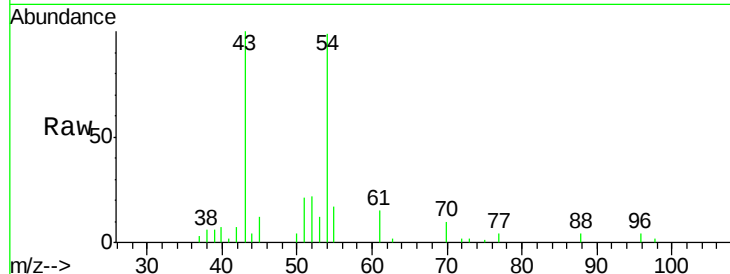




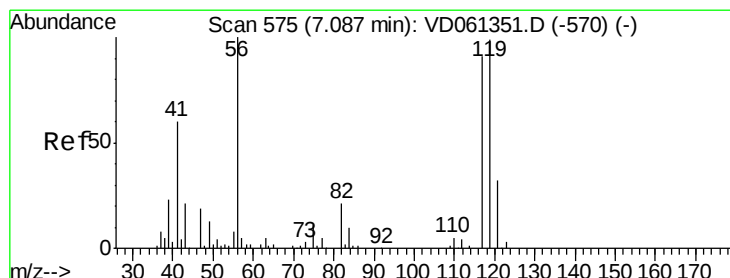
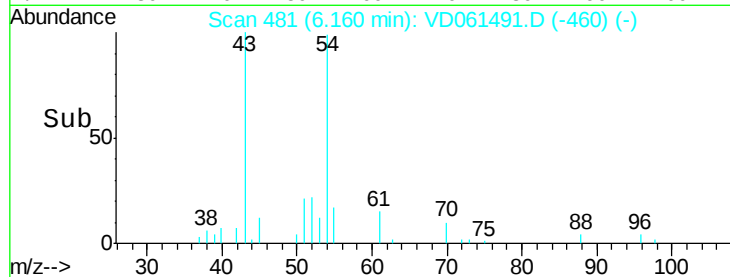
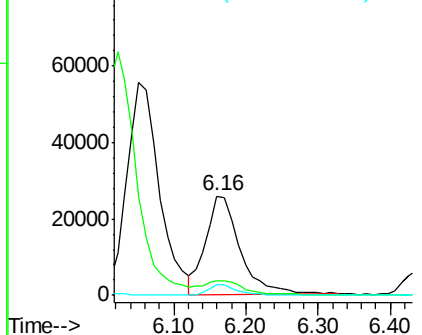
#37
Ethyl Acetate
Concen: 23.451 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

Tot Ion: 43 Resp: 83645
Ion Ratio Lower Upper
43 100
61 15.2 13.8 20.8
70 10.4 7.8 11.8

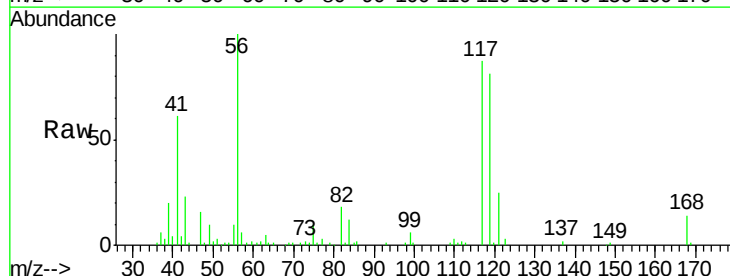


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

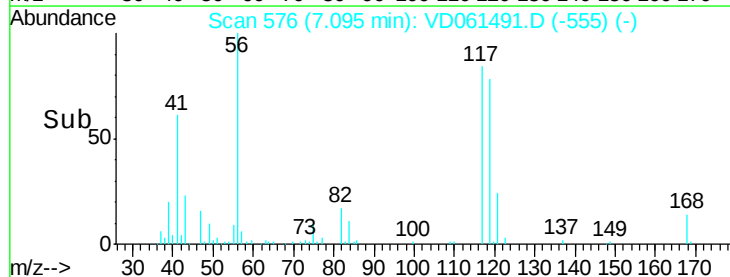
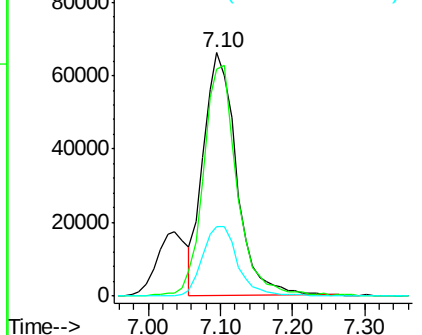


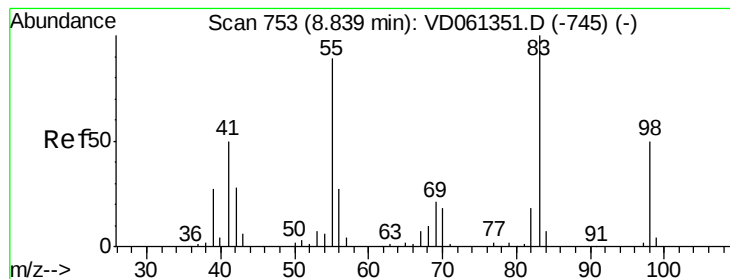
#38
Carbon Tetrachloride
Concen: 21.922 ug/l
RT: 7.10 min Scan# 576
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 117 Resp: 210095
Ion Ratio Lower Upper
117 100
119 93.0 80.1 120.1
121 28.6 25.6 38.4



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#39

Methvlcvclohexane

Concen: 20.169 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.02 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

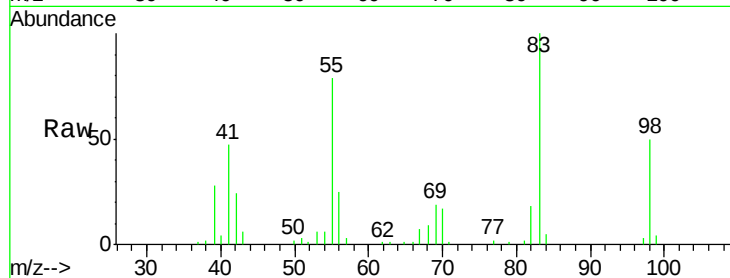
Tot Ion: 83 Resp: 175191

Ion Ratio Lower Upper

83 100

55 79.1 71.5 107.3

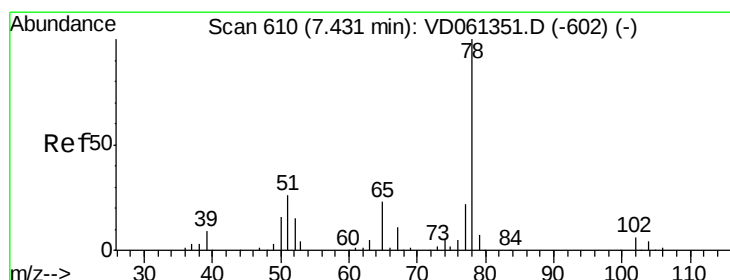
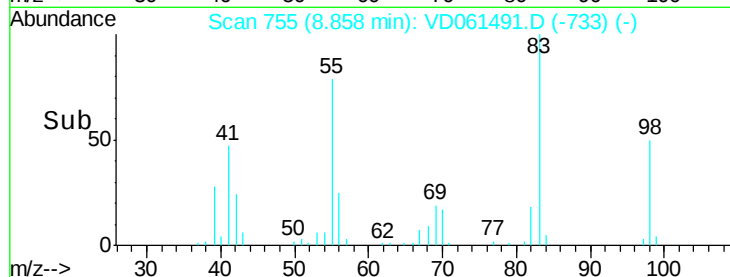
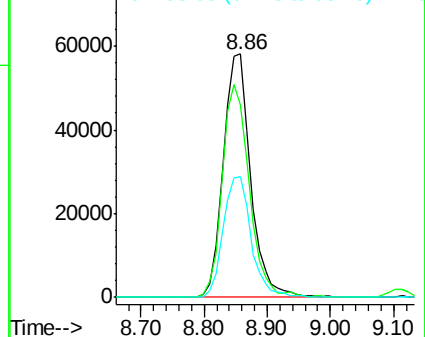
98 49.6 40.3 60.5



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 22.288 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD061491.D

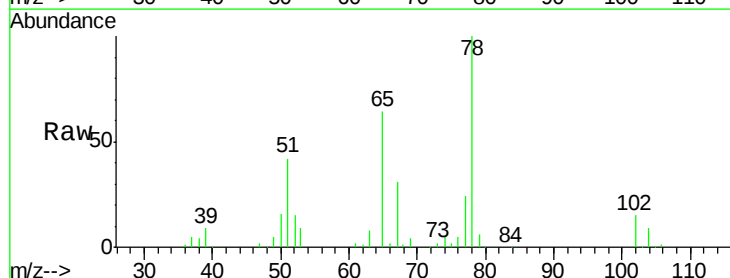
Acq: 2 Apr 2019 3:31

Tgt Ion: 78 Resp: 466511

Ion Ratio Lower Upper

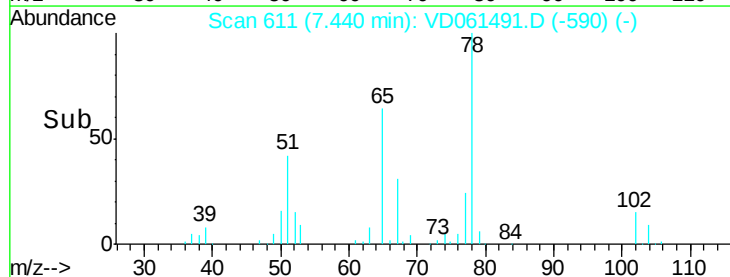
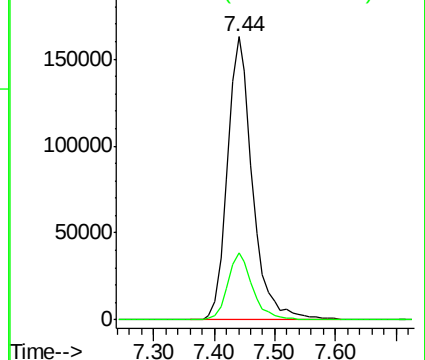
78 100

77 23.6 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 24.049 ug/l

RT: 6.43 min Scan# 508

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

Tot Ion: 41 Resp: 100297

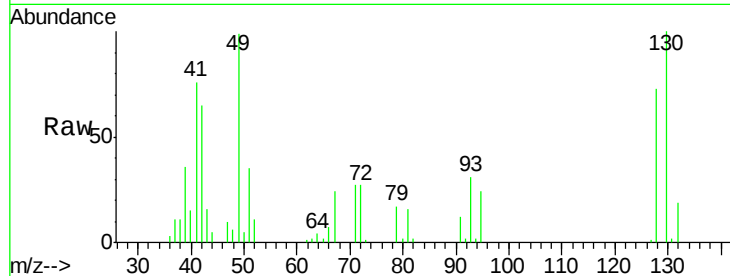
Ion Ratio Lower Upper

41 100

39 47.2 35.0 52.6

67 31.8 21.0 31.6#

52 14.2 7.7 11.5#

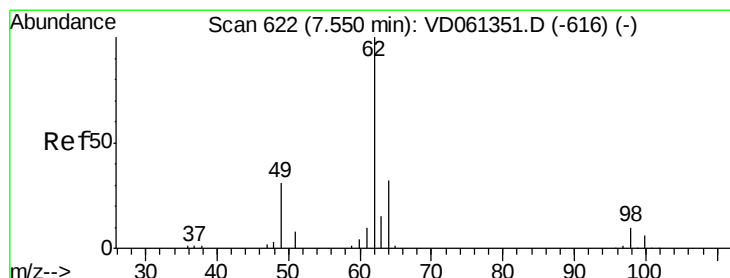
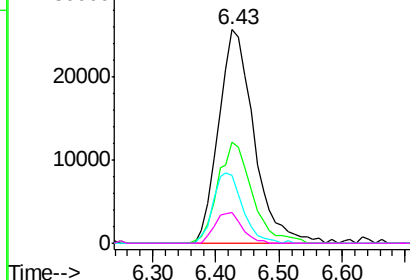
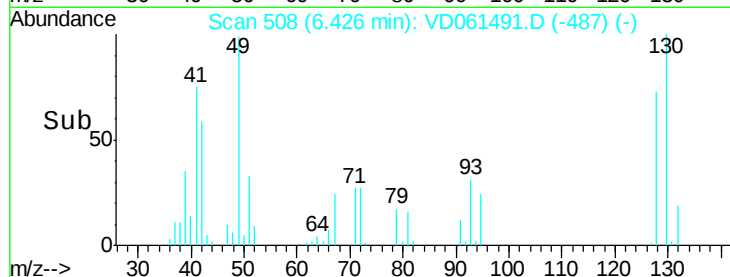


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 24.974 ug/l

RT: 7.56 min Scan# 623

Delta R.T. 0.01 min

Lab File: VD061491.D

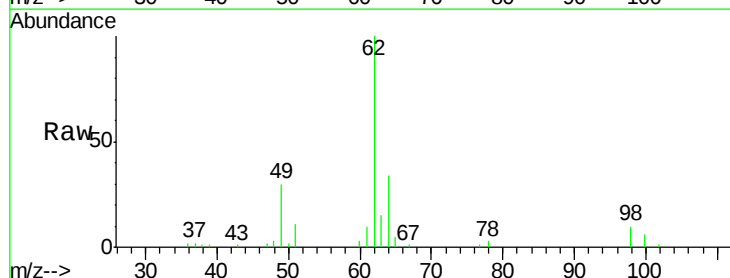
Acq: 2 Apr 2019 3:31

Tgt Ion: 62 Resp: 156364

Ion Ratio Lower Upper

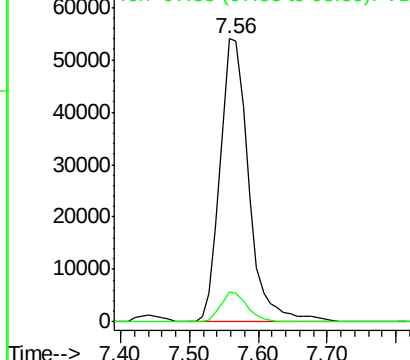
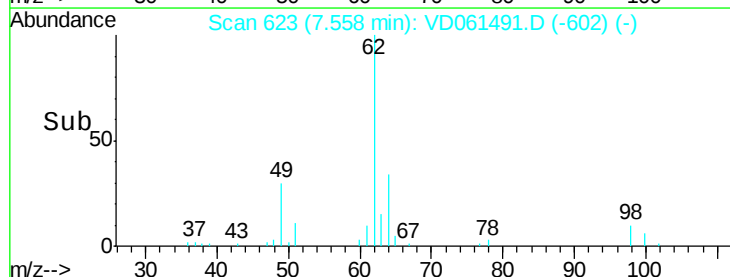
62 100

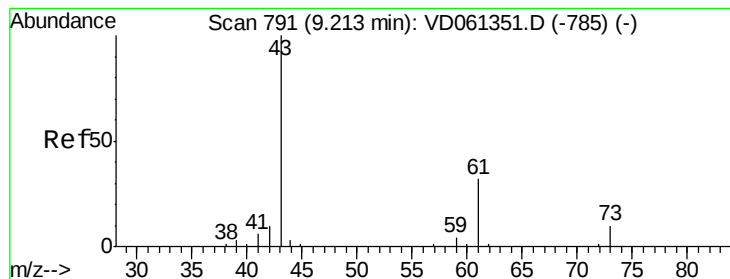
98 10.4 0.0 19.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



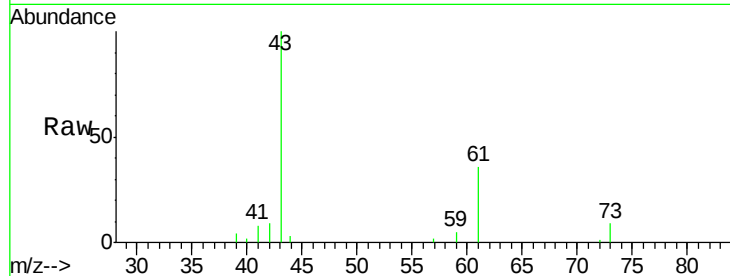


#43

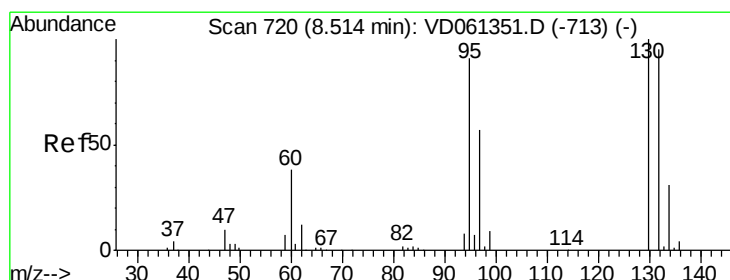
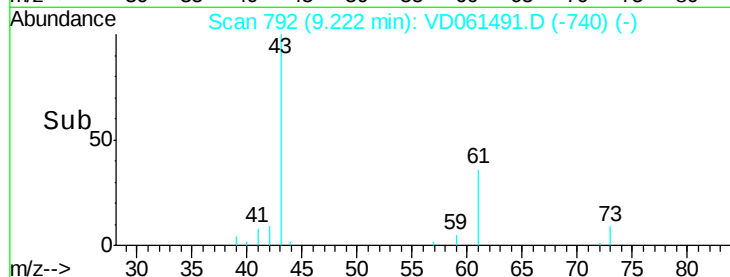
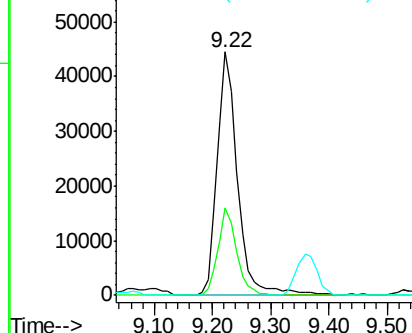
Isopropyl Acetate
 Concen: 20.833 ug/l
 RT: 9.22 min Scan# 792
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0401SBS02

Tot Ion: 43 Resp: 108119
 Ion Ratio Lower Upper
 43 100
 61 36.1 25.8 38.6
 87 0.0 0.0 0.0



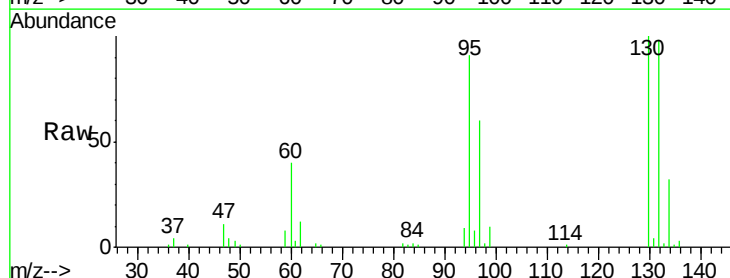
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



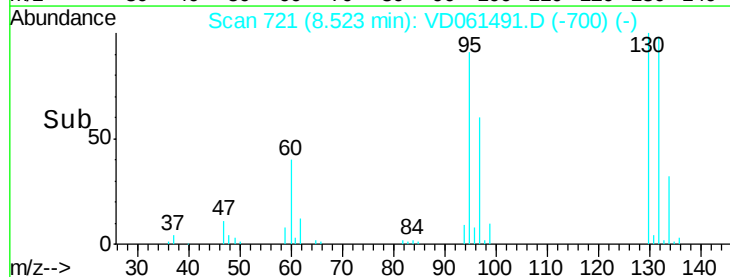
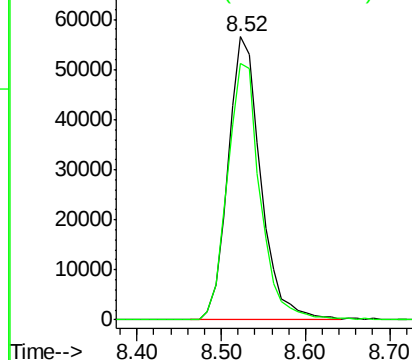
#44

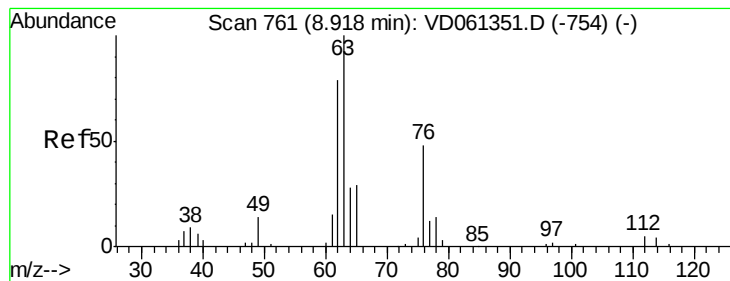
Trichloroethene
 Concen: 19.546 ug/l
 RT: 8.52 min Scan# 721
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion: 130 Resp: 152254
 Ion Ratio Lower Upper
 130 100
 95 90.7 0.0 181.4



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 21.798 ug/l

RT: 8.93 min Scan# 762

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

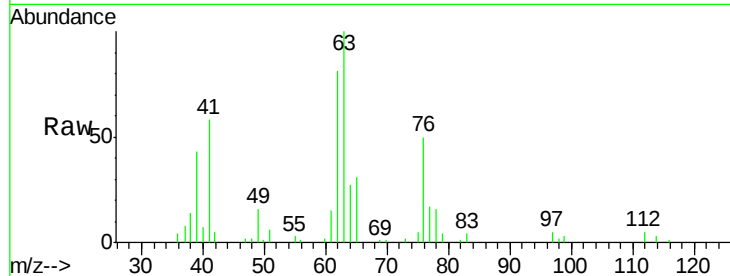
VD0401SBS02

Tot Ion: 63 Resp: 115697

Ion Ratio Lower Upper

63 100

65 30.8 25.0 37.4

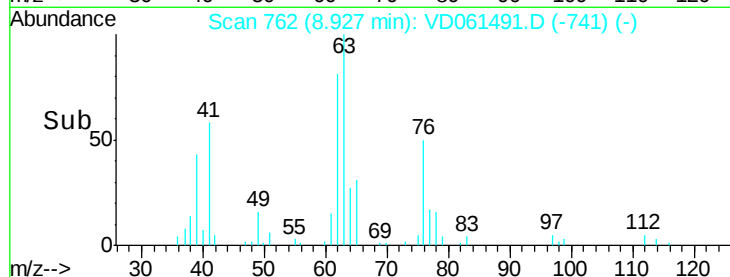


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

Time-->



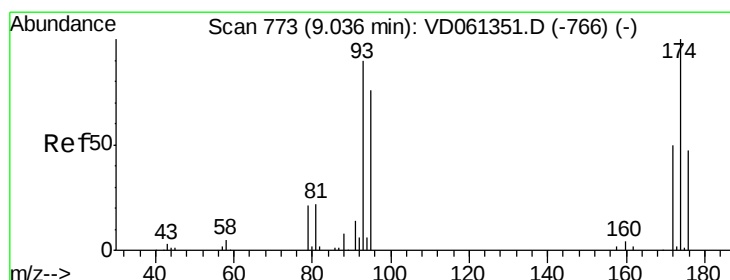
Abundance

Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

Time-->



#46

Dibromomethane

Concen: 24.402 ug/l

RT: 9.04 min Scan# 774

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

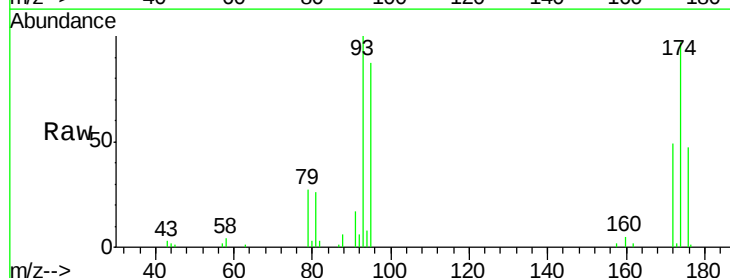
Tgt Ion: 93 Resp: 87174

Ion Ratio Lower Upper

93 100

95 87.4 67.4 101.0

174 96.6 88.9 133.3



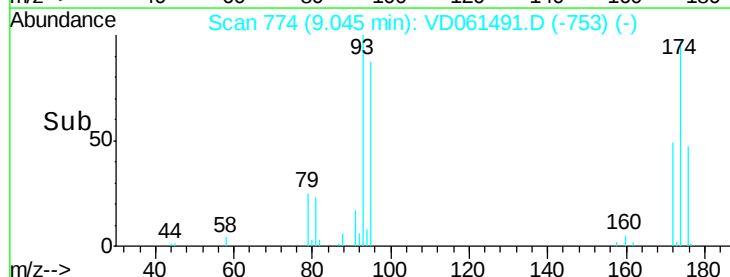
Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

9.04

Time-->



Abundance

Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

9.04

Time-->



#47

Bromodichloromethane

Concen: 23.845 ug/l

RT: 9.36 min Scan# 806

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

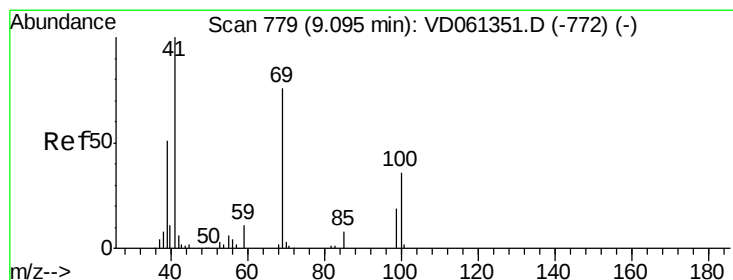
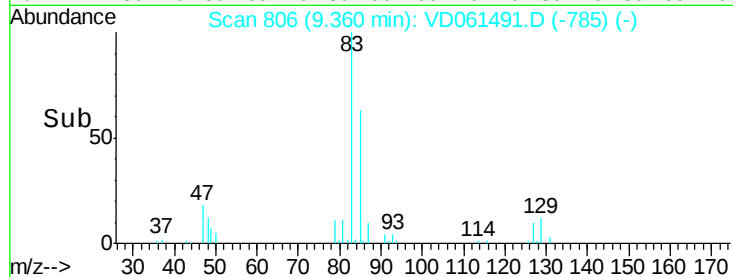
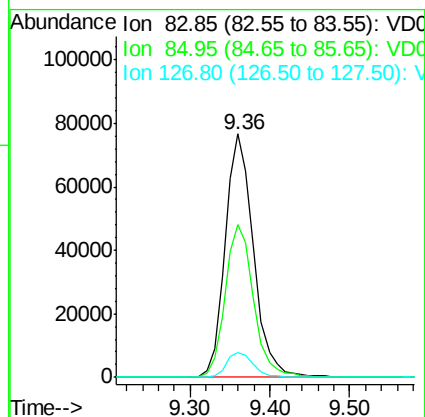
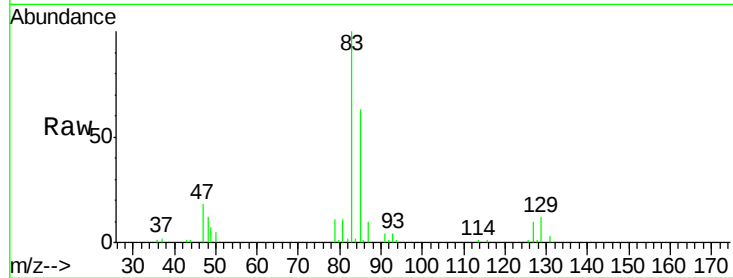
Tot Ion: 83 Resp: 191190

Ion Ratio Lower Upper

83 100

85 62.8 53.0 79.4

127 10.3 8.4 12.6



#48

Methyl methacrylate

Concen: 25.281 ug/l

RT: 9.10 min Scan# 780

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

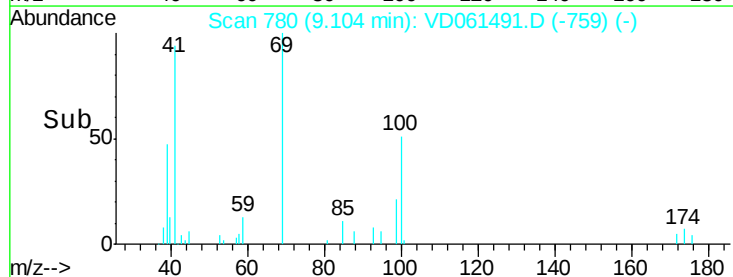
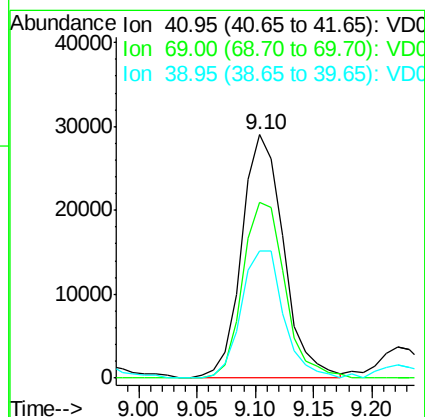
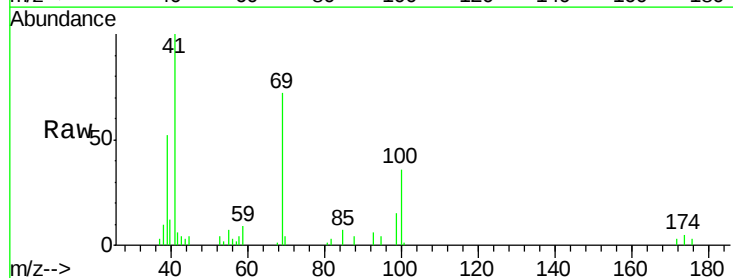
Tgt Ion: 41 Resp: 72408

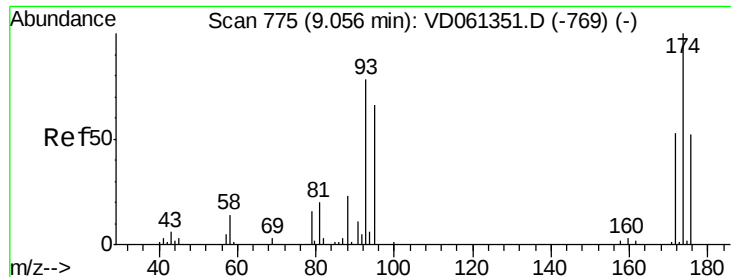
Ion Ratio Lower Upper

41 100

69 72.3 60.2 90.4

39 52.0 41.4 62.2

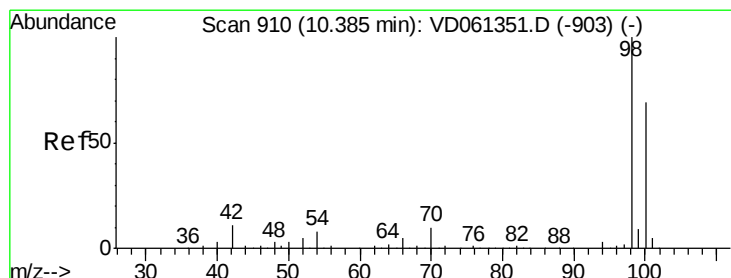
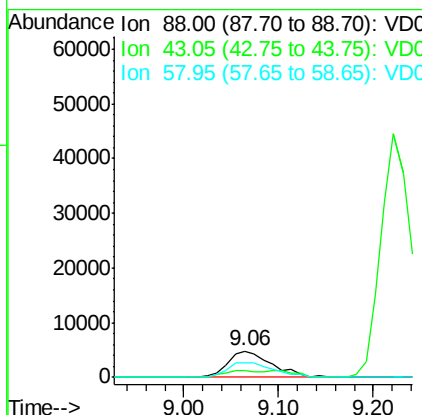
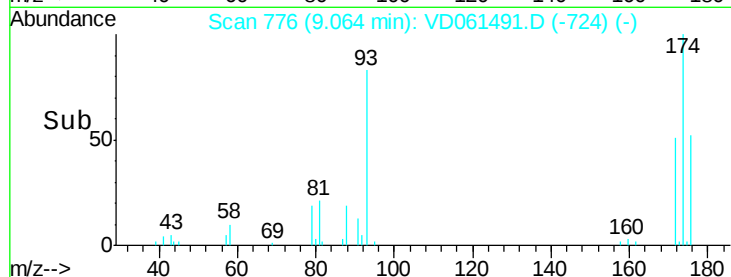
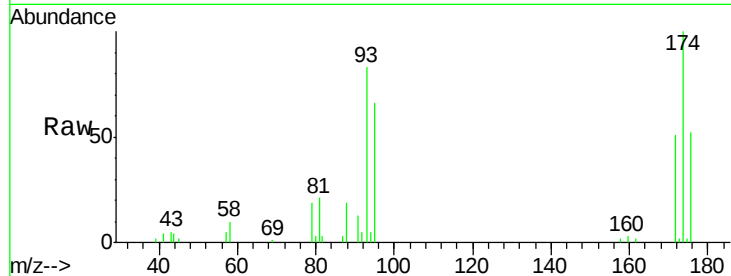




#49
1,4-Dioxane
Concen: 476.841 ug/l
RT: 9.06 min Scan# 776
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

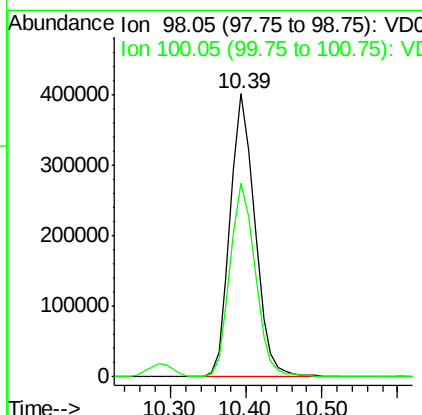
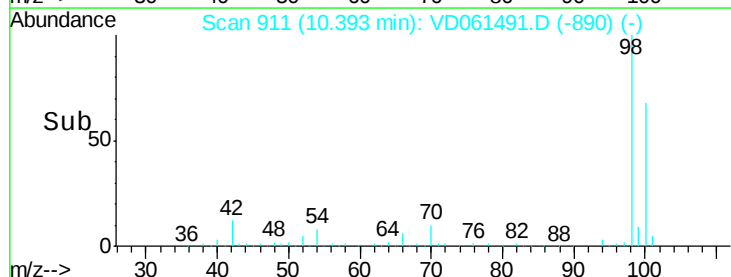
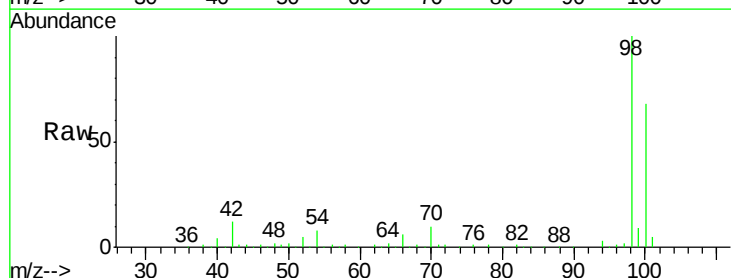
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

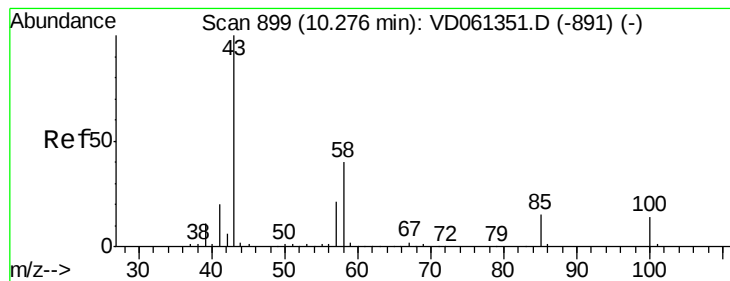
Tot Ion: 88 Resp: 15064
Ion Ratio Lower Upper
88 100
43 25.3 23.3 34.9
58 53.4 50.8 76.2



#50
Toluene-d8
Concen: 476.841 ug/l
RT: 10.39 min Scan# 911
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 98 Resp: 915023
Ion Ratio Lower Upper
98 100
100 68.5 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 117.249 ug/l

RT: 10.29 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

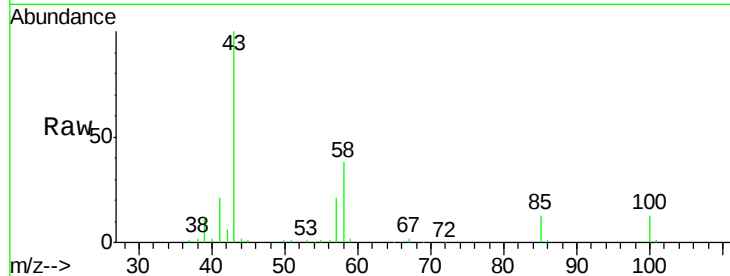
VD0401SBS02

Tot Ion: 43 Resp: 370200

Ion Ratio Lower Upper

43 100

58 37.8 31.8 47.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

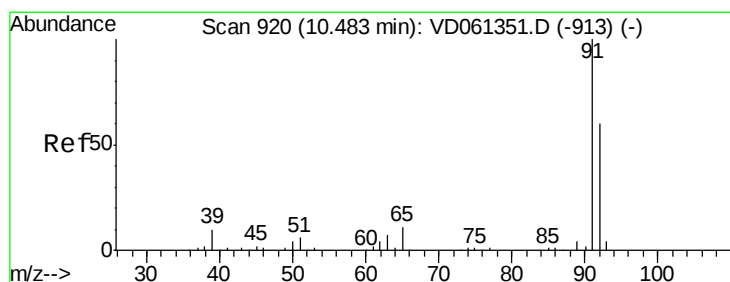
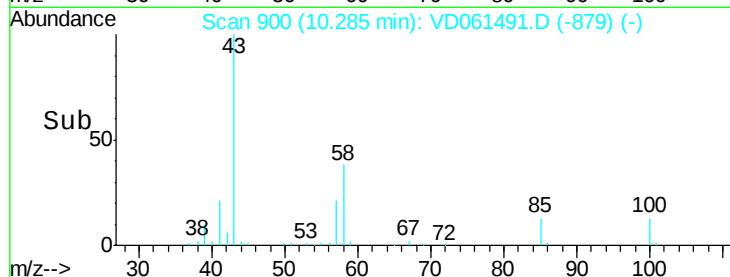
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 21.651 ug/l

RT: 10.49 min Scan# 921

Delta R.T. 0.01 min

Lab File: VD061491.D

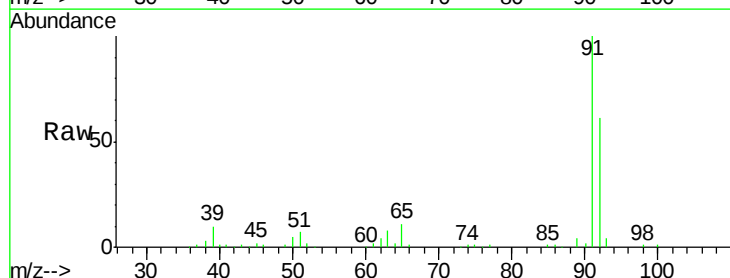
Acq: 2 Apr 2019 3:31

Tgt Ion: 92 Resp: 276481

Ion Ratio Lower Upper

92 100

91 163.9 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.49

200000

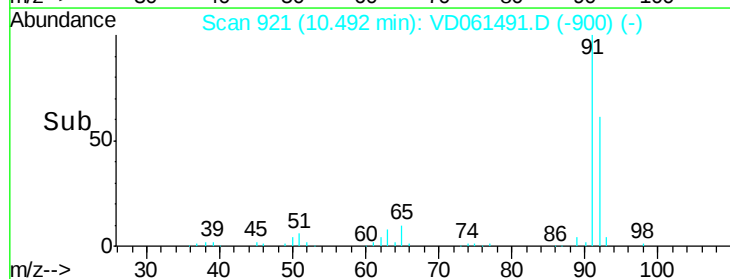
150000

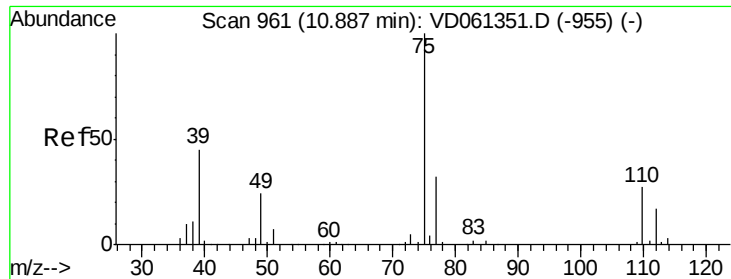
100000

50000

0

Time-->

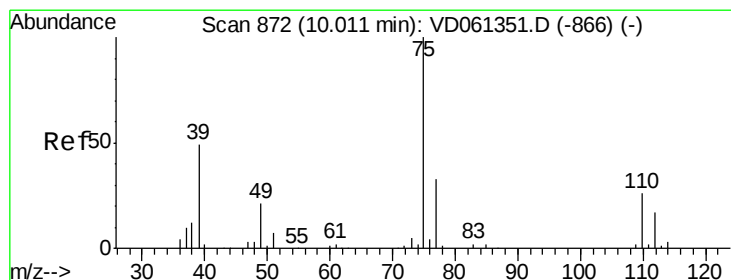
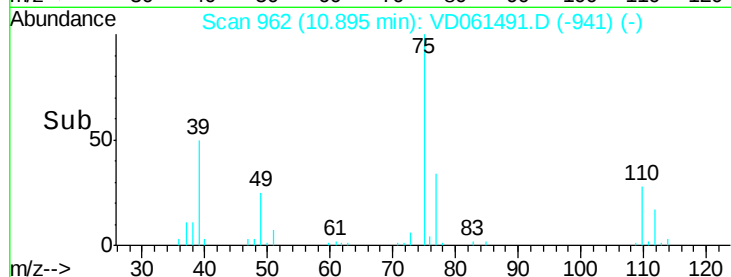
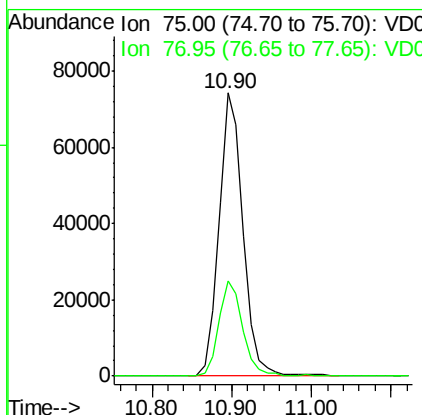
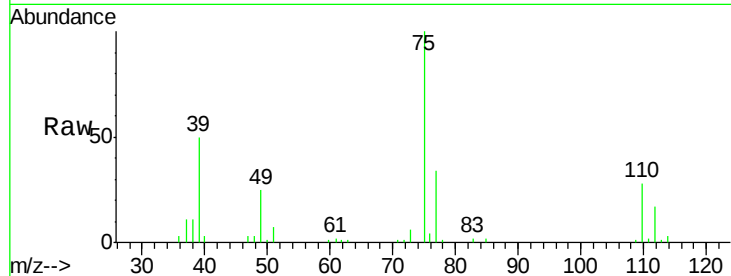




#53
t-1,3-Dichloropropene
Concen: 21.535 ug/l
RT: 10.90 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

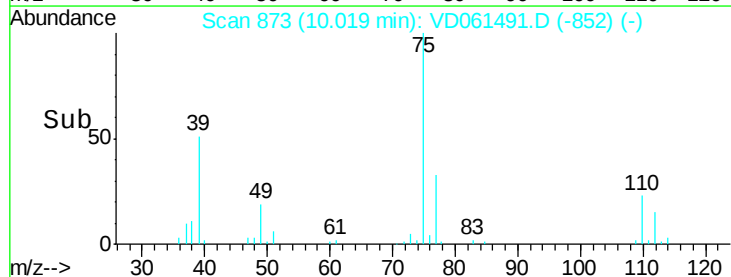
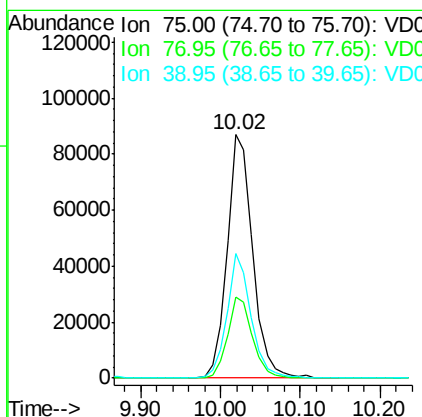
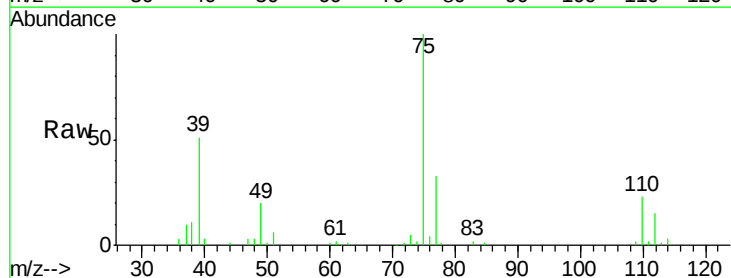
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

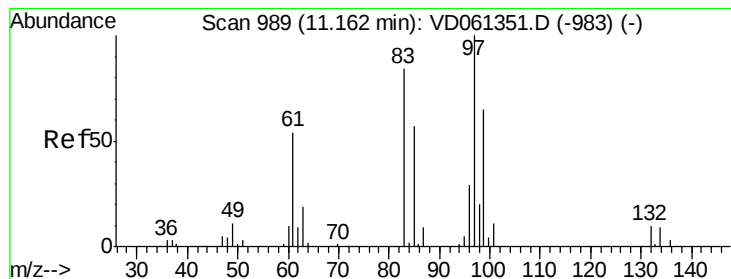
Tot Ion: 75 Resp: 156881
Ion Ratio Lower Upper
75 100
77 33.6 25.4 38.2



#54
cis-1,3-Dichloropropene
Concen: 22.054 ug/l
RT: 10.02 min Scan# 873
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 75 Resp: 195630
Ion Ratio Lower Upper
75 100
77 33.2 26.2 39.4
39 51.2 39.4 59.0





#55

1,1,2-Trichloroethane

Concen: 23.444 ug/l

RT: 11.17 min Scan# 990

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

Tot Ion: 97 Resp: 104698

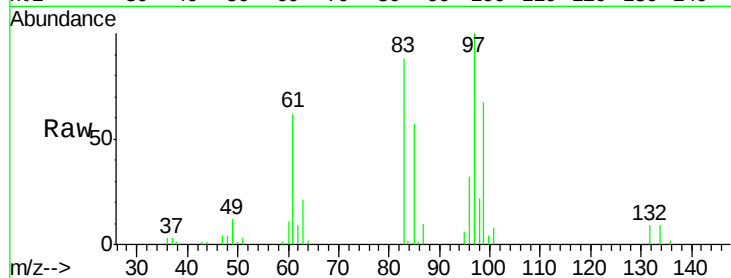
Ion Ratio Lower Upper

97 100

83 87.6 67.0 100.6

85 57.1 45.4 68.2

99 66.8 51.9 77.9

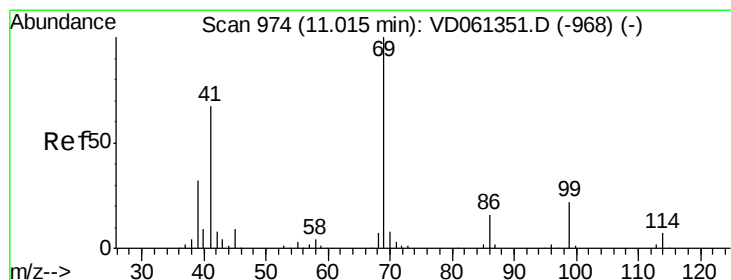
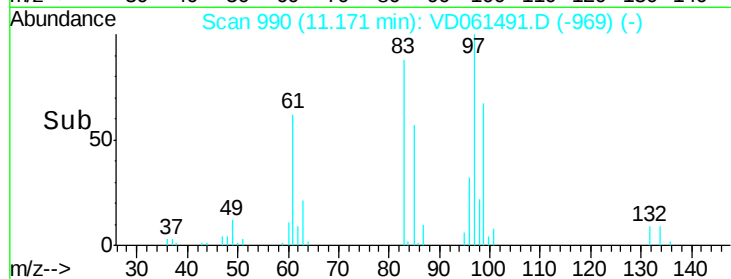
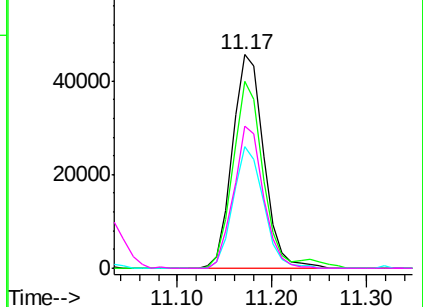


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 22.335 ug/l

RT: 11.02 min Scan# 975

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

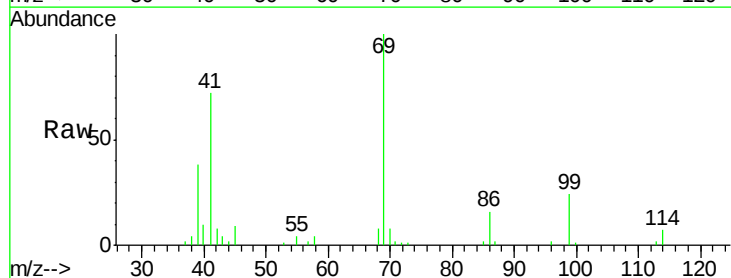
Tgt Ion: 69 Resp: 107153

Ion Ratio Lower Upper

69 100

41 72.5 53.8 80.6

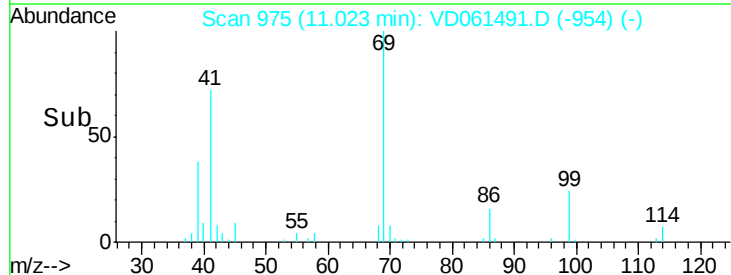
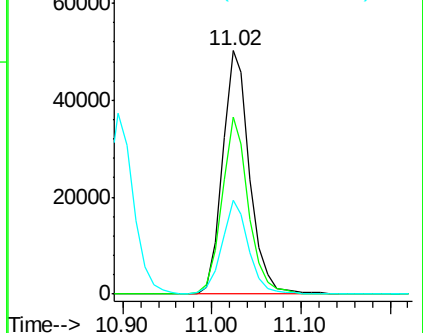
39 38.5 26.4 39.6

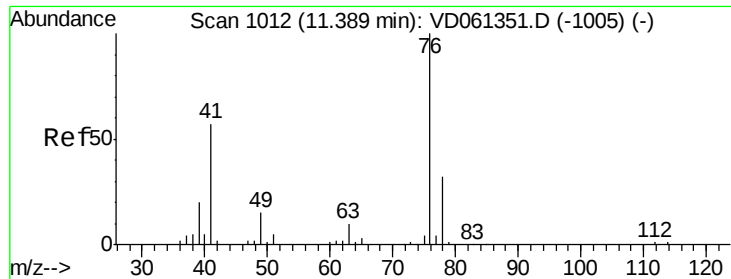


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 22.968 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

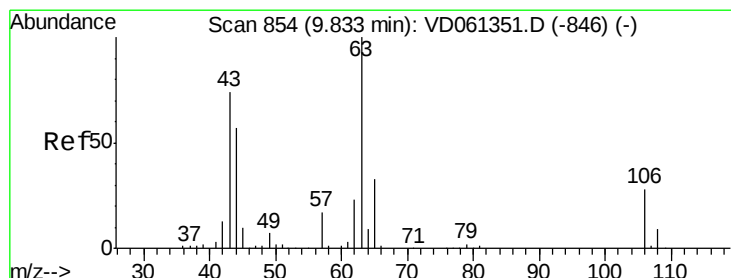
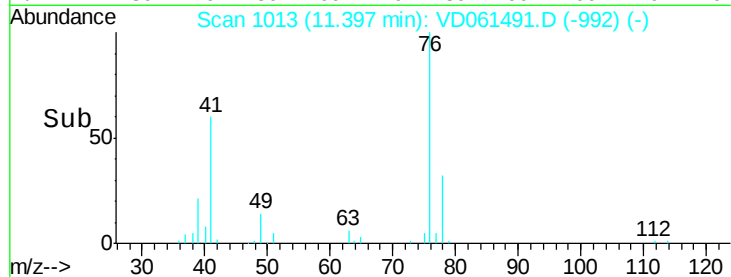
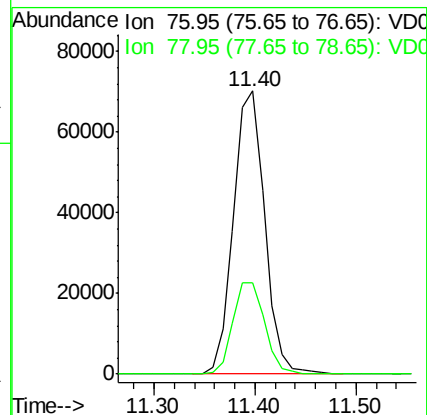
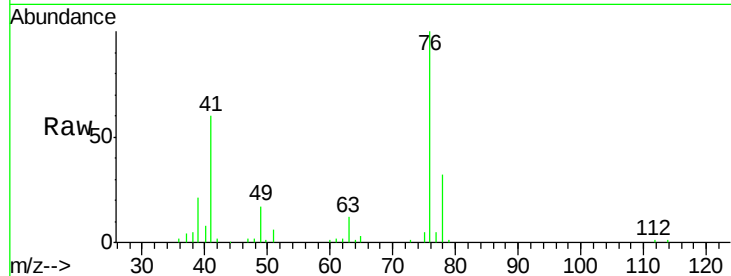
VD0401SBS02

Tot Ion: 76 Resp: 150764

Ion Ratio Lower Upper

76 100

78 32.4 25.4 38.0



#58

2-Chloroethyl Vinyl ether

Concen: 113.595 ug/l

RT: 9.84 min Scan# 855

Delta R.T. 0.01 min

Lab File: VD061491.D

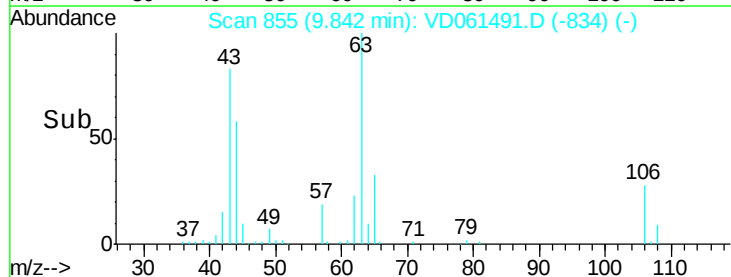
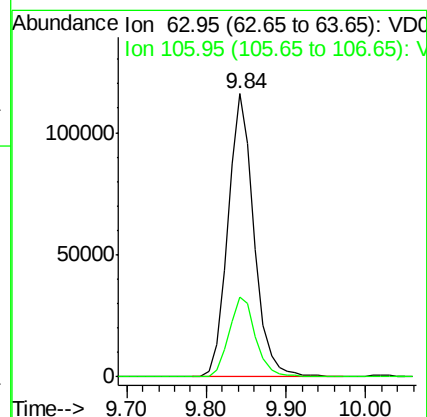
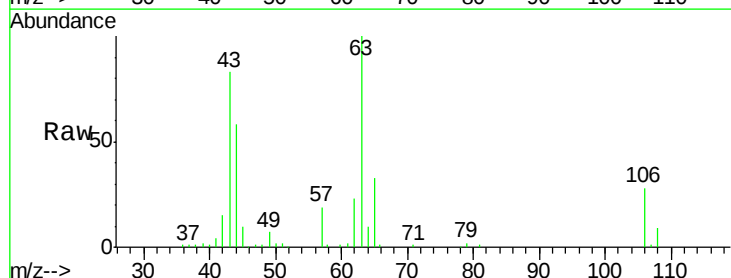
Acq: 2 Apr 2019 3:31

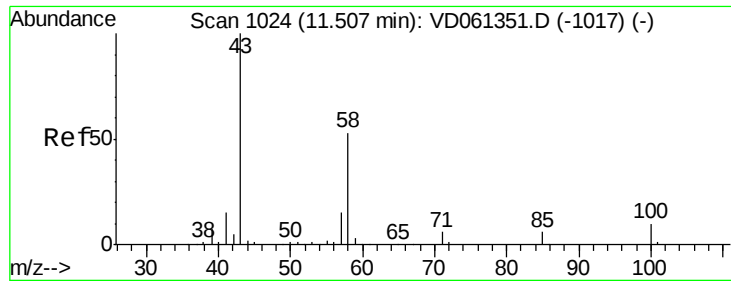
Tgt Ion: 63 Resp: 265400

Ion Ratio Lower Upper

63 100

106 28.4 22.4 33.6

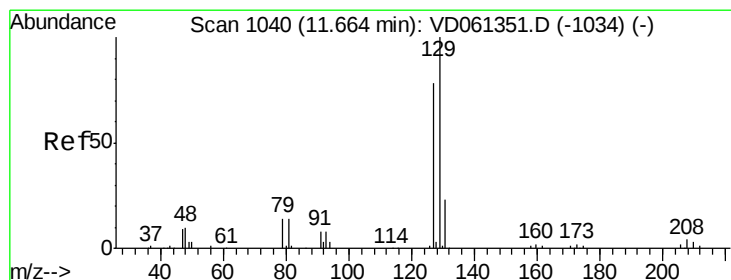
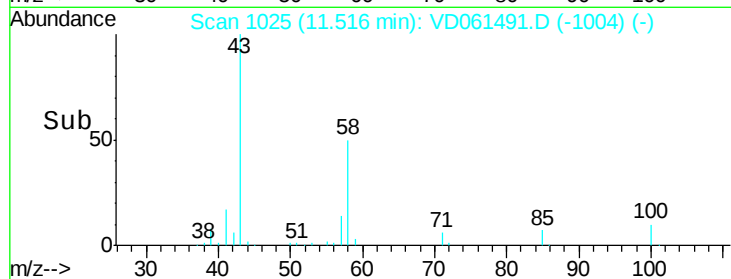
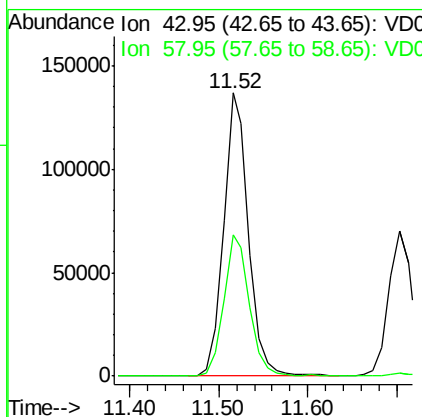
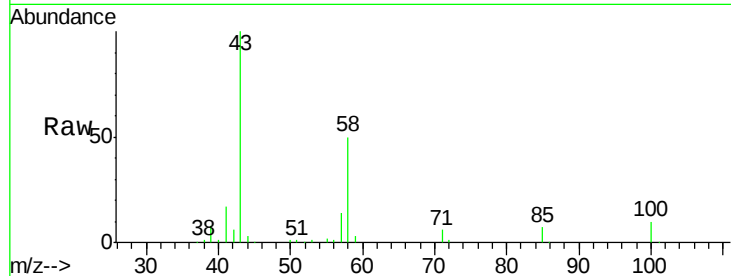




#59
2-Hexanone
Concen: 116.756 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

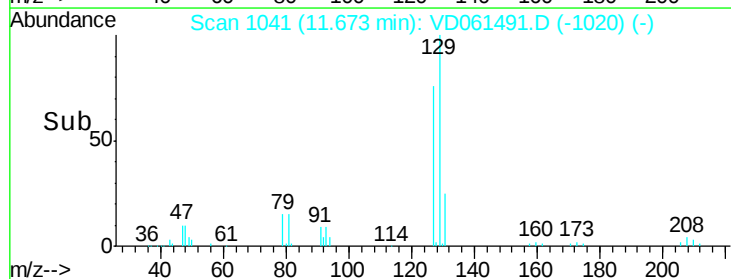
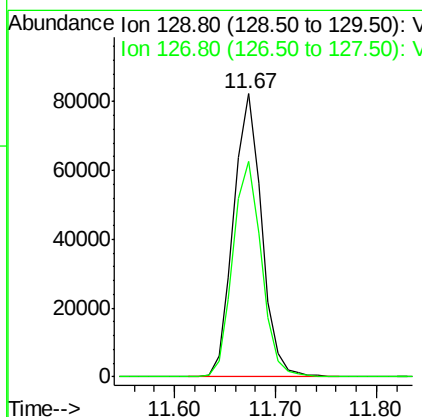
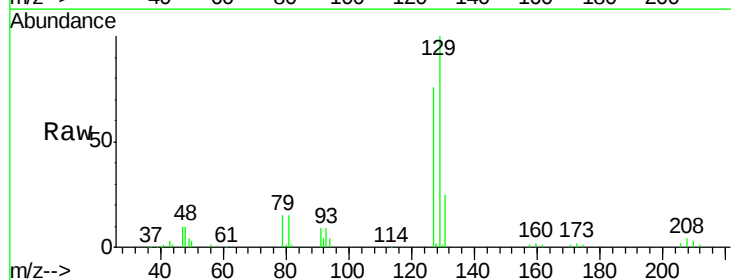
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

Tot Ion: 43 Resp: 267094
Ion Ratio Lower Upper
43 100
58 49.8 26.3 78.9



#60
Dibromochloromethane
Concen: 23.203 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion: 129 Resp: 159741
Ion Ratio Lower Upper
129 100
127 76.1 39.0 116.9

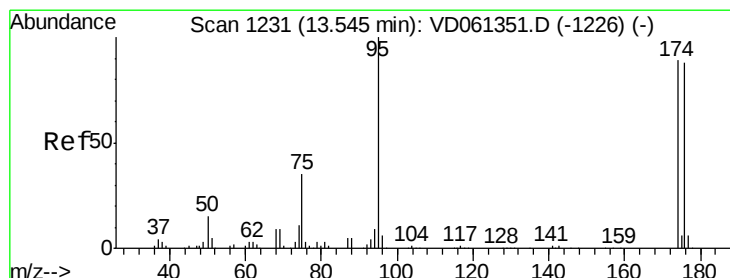
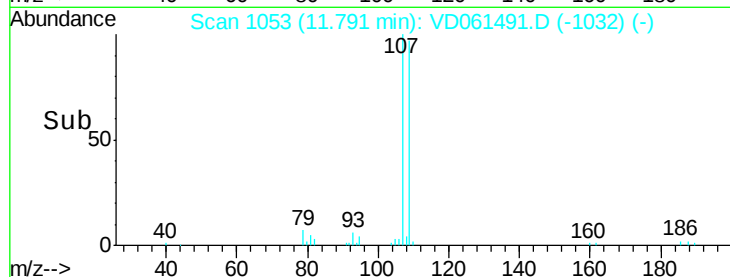
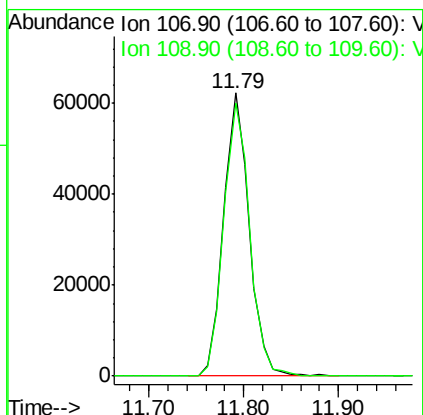
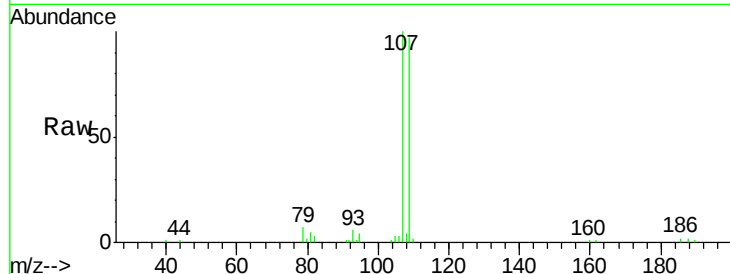




#61
 1,2-Dibromoethane
 Concen: 22.509 ug/l
 RT: 11.79 min Scan# 1053
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

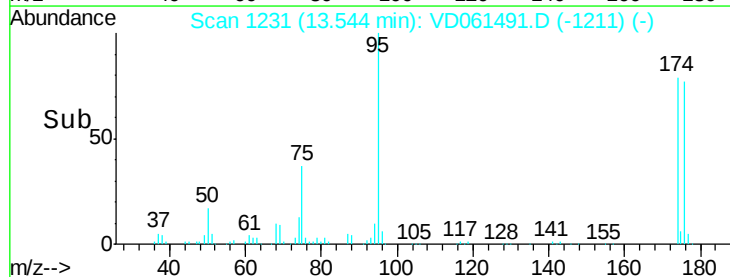
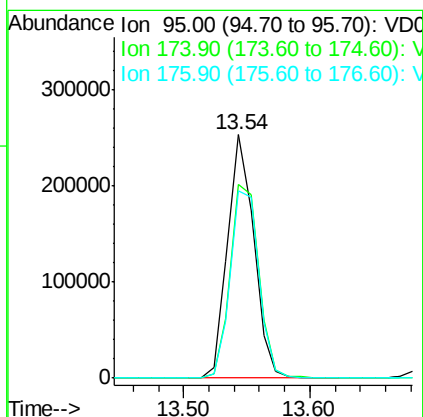
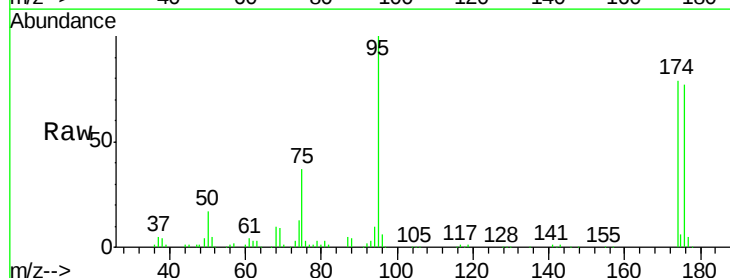
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0401SBS02

Tot Ion: 107 Resp: 116398
 Ion Ratio Lower Upper
 107 100
 109 96.6 76.6 114.8



#62
 4-Bromofluorobenzene
 Concen: 22.509 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion: 95 Resp: 363760
 Ion Ratio Lower Upper
 95 100
 174 79.4 0.0 178.0
 176 76.7 0.0 175.0

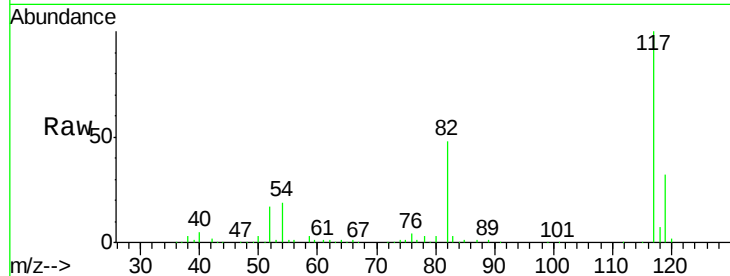




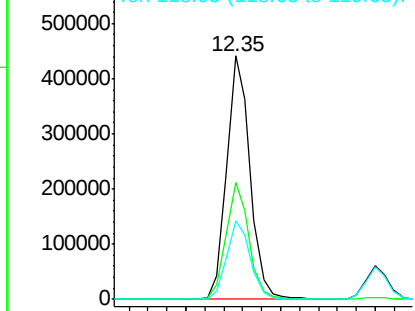
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

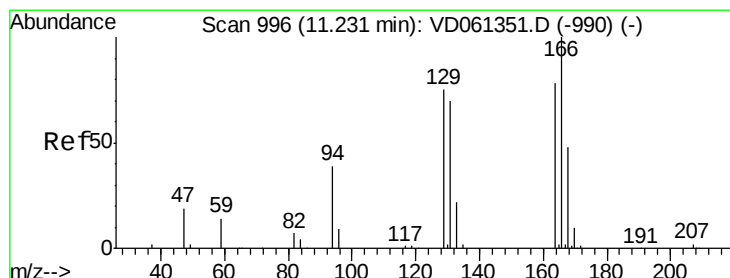
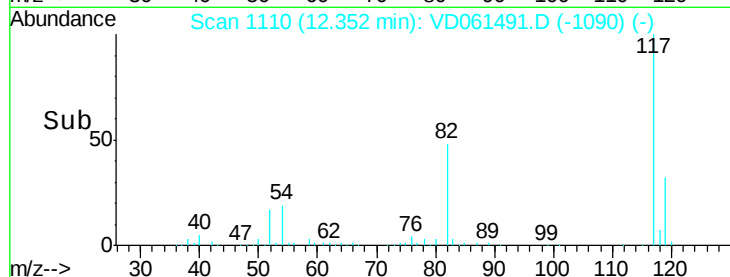
Tot Ion:117 Resp: 751108
Ion Ratio Lower Upper
117 100
82 48.3 34.4 51.6
119 32.0 25.8 38.6



Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

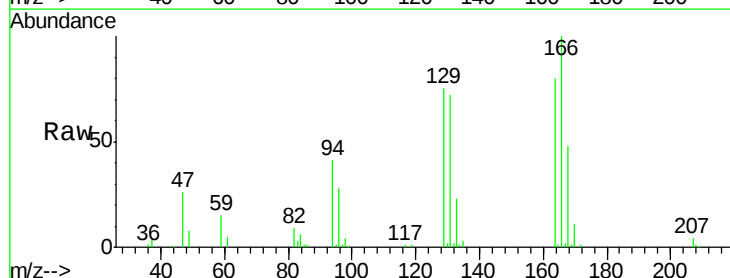


Time-->

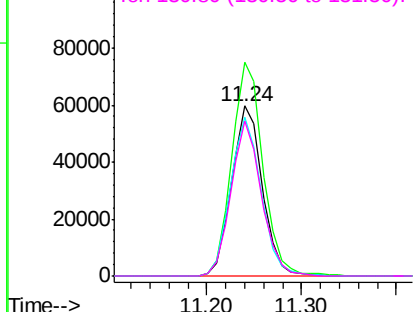


#64
Tetrachloroethene
Concen: 22.723 ug/l
RT: 11.24 min Scan# 997
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

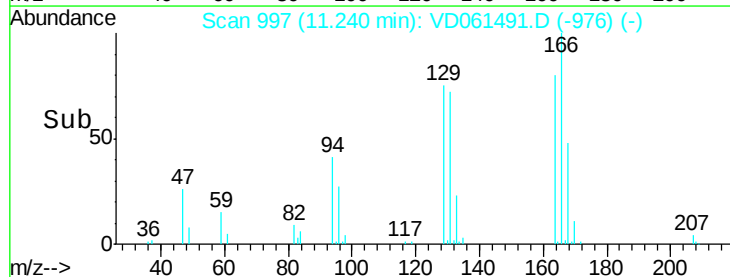
Tgt Ion:164 Resp: 133950
Ion Ratio Lower Upper
164 100
166 125.7 102.4 153.6
129 93.7 76.8 115.2
131 90.8 71.8 107.6

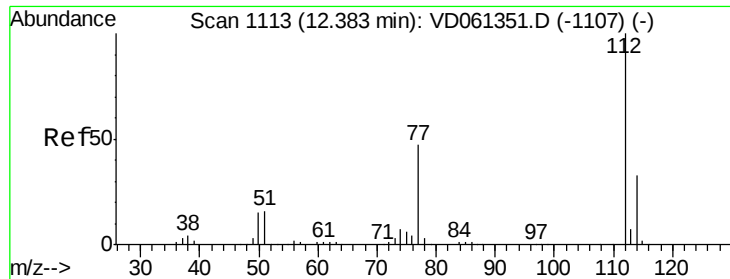


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



Time-->

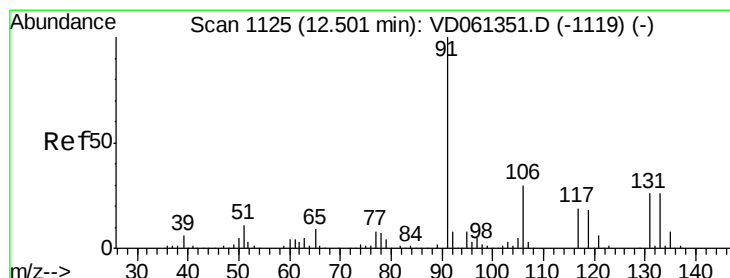
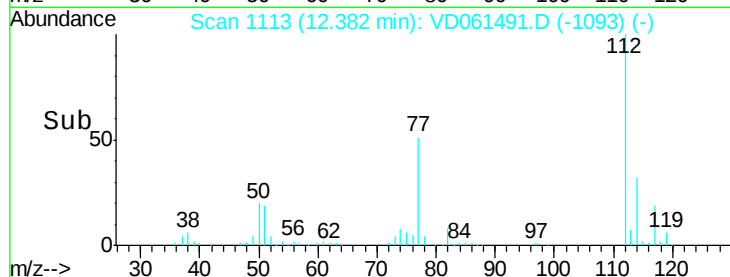
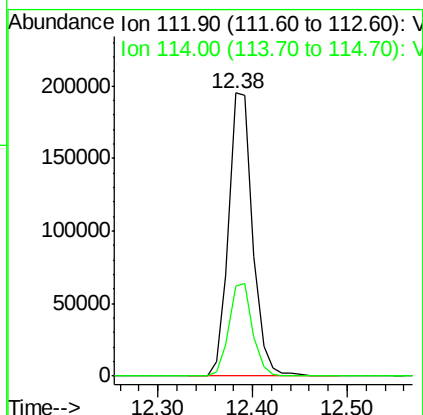
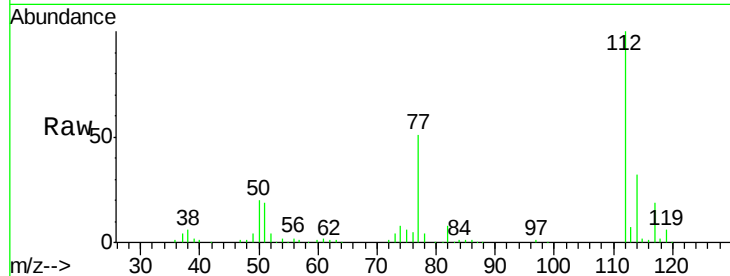




#65
Chlorobenzene
Concen: 22.451 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

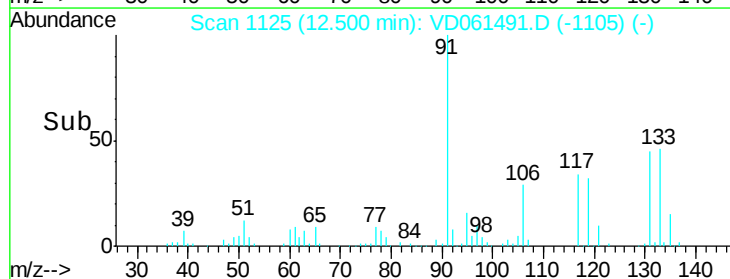
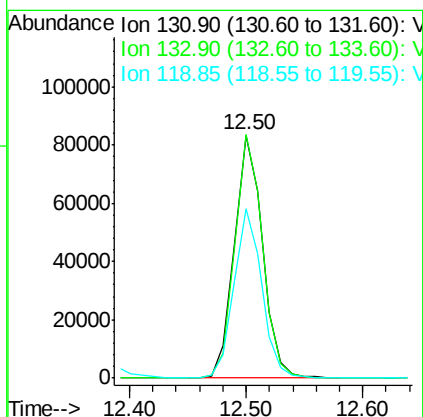
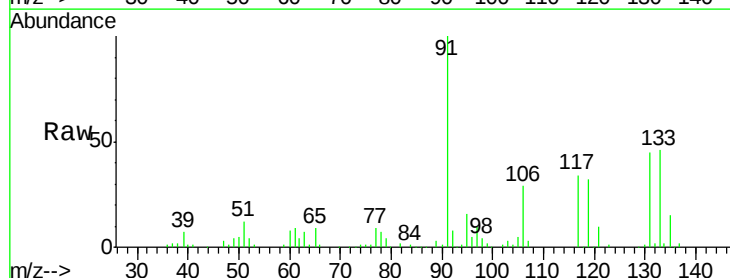
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

Tot Ion:112 Resp: 344619
Ion Ratio Lower Upper
112 100
114 31.9 26.6 39.8



#66
1,1,1,2-Tetrachloroethane
Concen: 23.426 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion:131 Resp: 139231
Ion Ratio Lower Upper
131 100
133 100.5 49.4 148.2
119 69.7 34.1 102.2

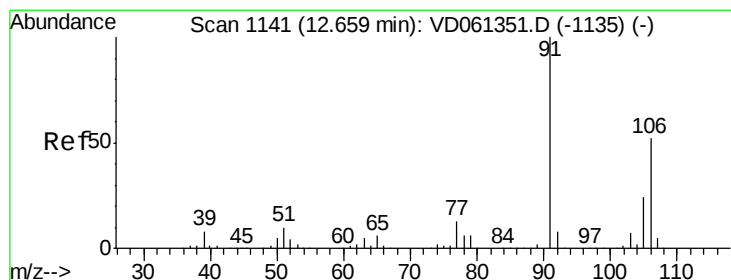
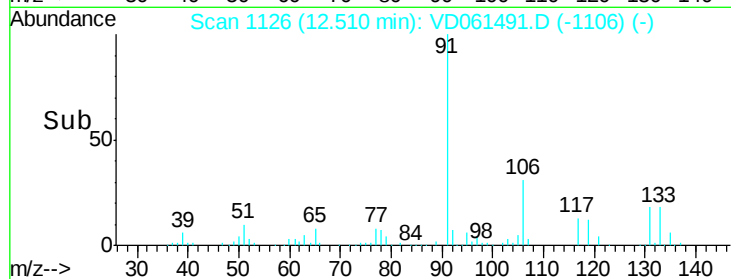
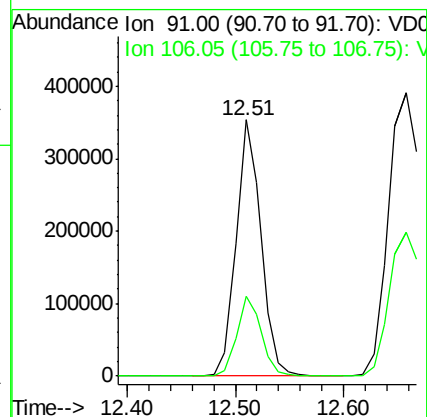
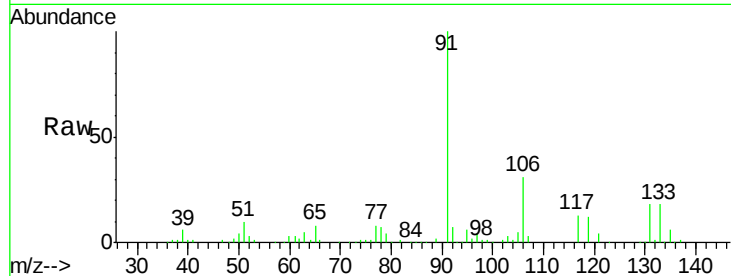




#67
Ethyl Benzene
Concen: 24.091 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

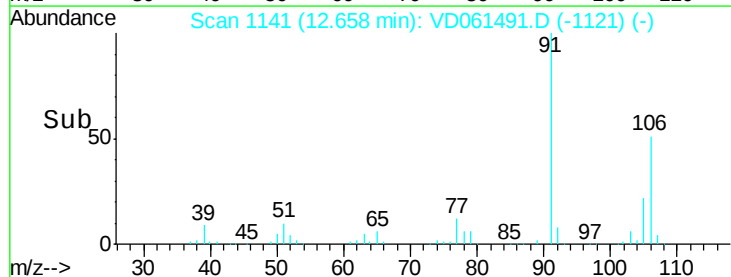
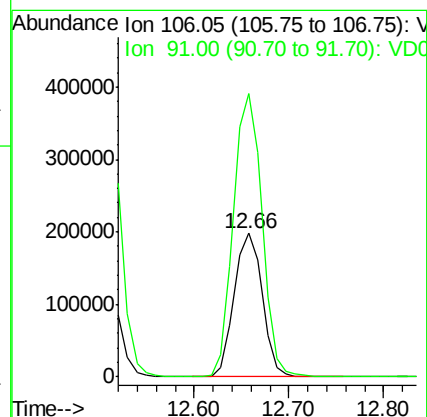
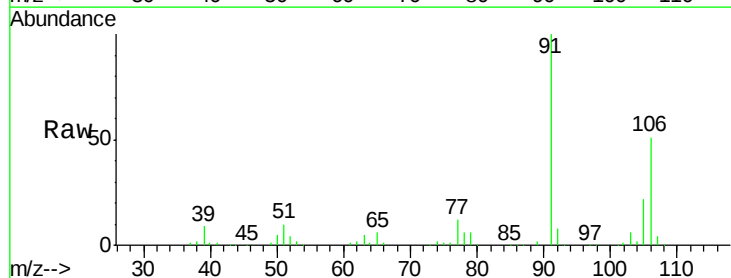
Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

Tot Ion: 91 Resp: 564450
Ion Ratio Lower Upper
91 100
106 31.1 26.1 39.1



#68
m/p-Xylenes
Concen: 45.915 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion:106 Resp: 407513
Ion Ratio Lower Upper
106 100
91 196.9 153.1 229.7

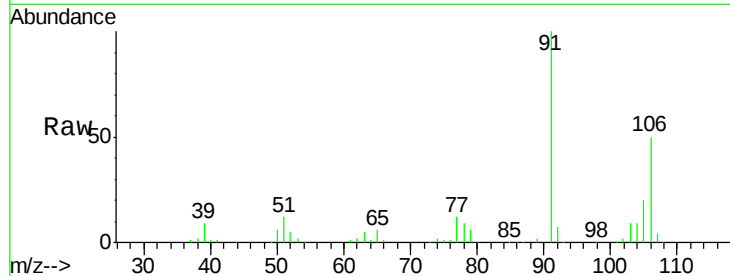




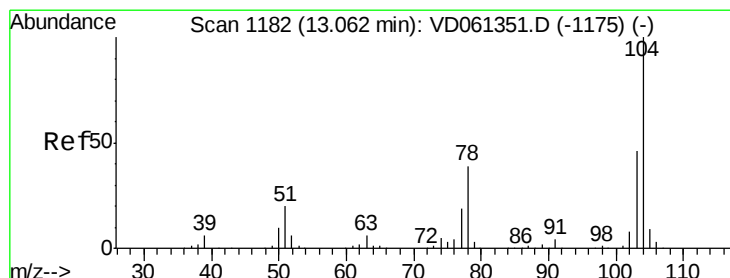
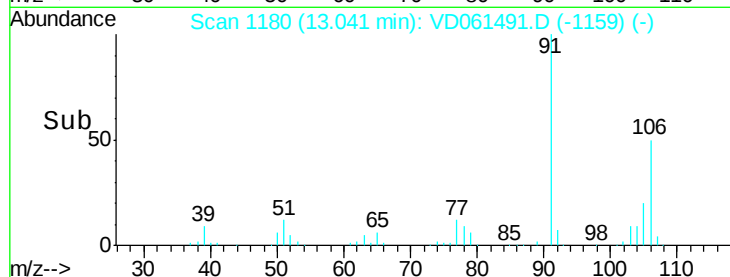
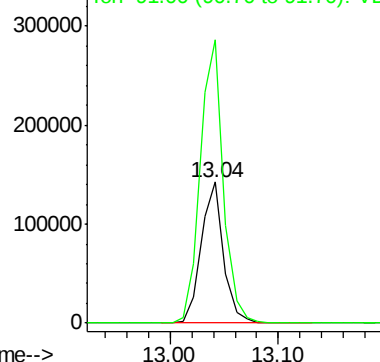
#69
o-Xylene
Concen: 23.686 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. 0.01 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Instrument :
MSVOA_D
ClientSampleId :
VD0401SBS02

Tot Ion:106 Resp: 204000
Ion Ratio Lower Upper
106 100
91 201.1 103.8 311.3

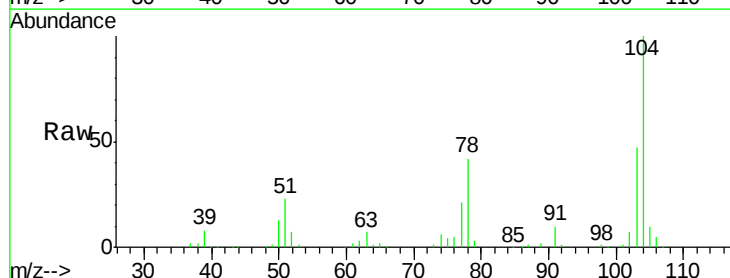


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

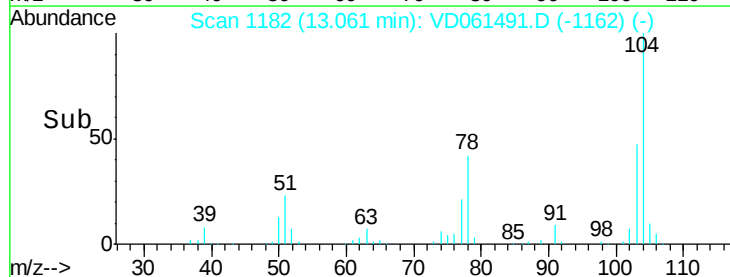
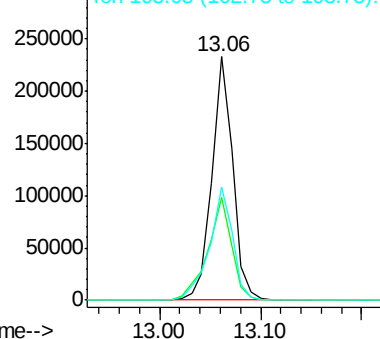


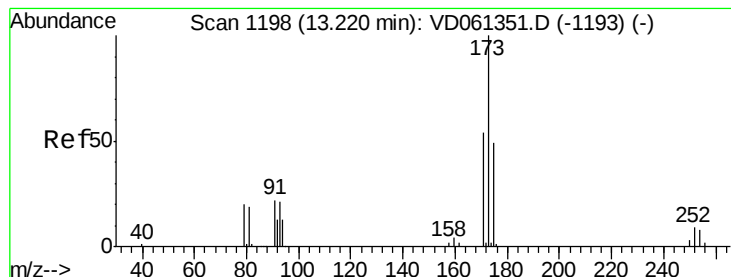
#70
Styrene
Concen: 22.260 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD061491.D
Acq: 2 Apr 2019 3:31

Tgt Ion:104 Resp: 334210
Ion Ratio Lower Upper
104 100
78 42.2 31.0 46.6
103 46.6 37.0 55.4



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 23.269 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

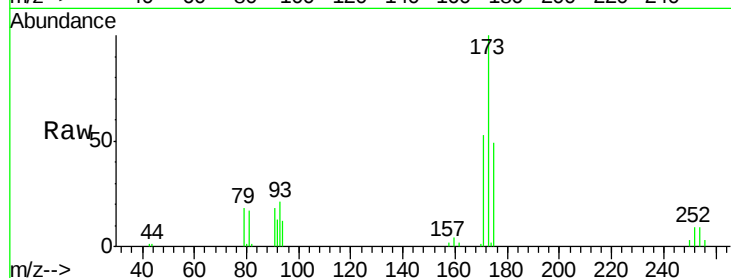
Tot Ion:173 Resp: 87667

Ion Ratio Lower Upper

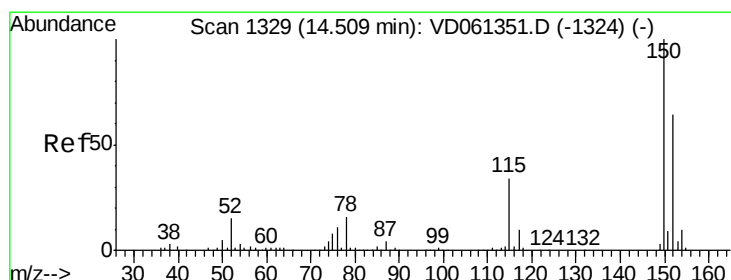
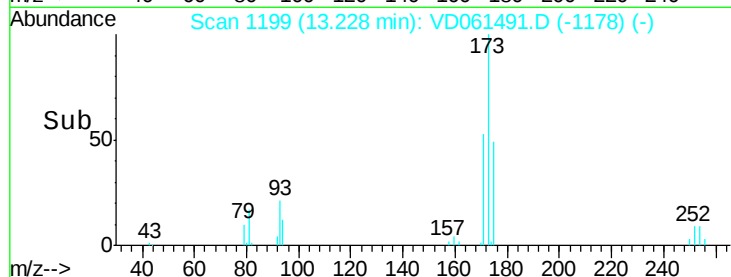
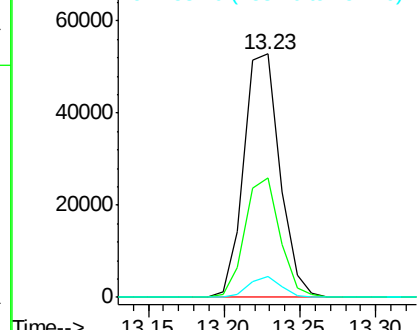
173 100

175 49.0 24.6 73.8

254 8.6 6.6 10.0



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

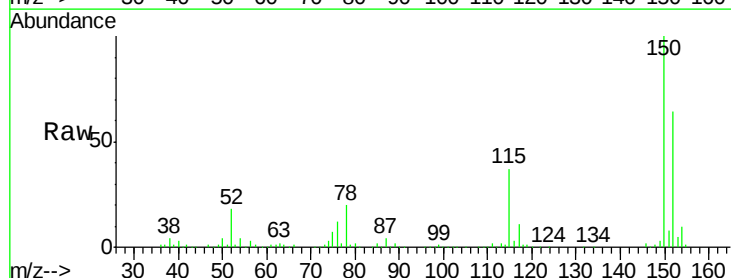
Tgt Ion:152 Resp: 366532

Ion Ratio Lower Upper

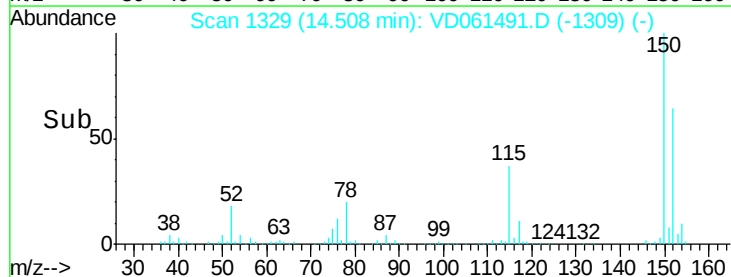
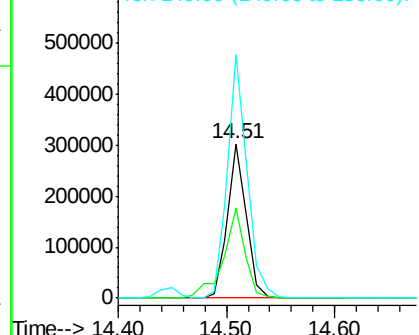
152 100

115 57.9 26.9 80.6

150 157.4 0.0 318.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.495 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

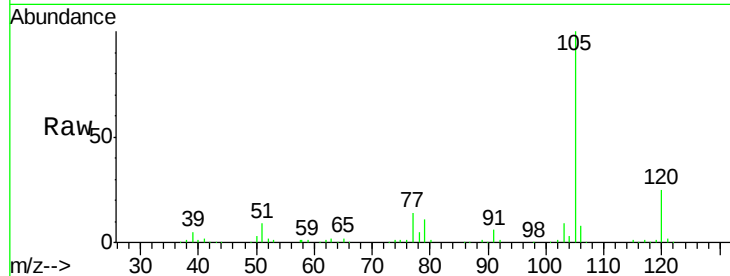
VD0401SBS02

Tot Ion:105 Resp: 548340

Ion Ratio Lower Upper

105 100

120 25.2 12.8 38.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

400000

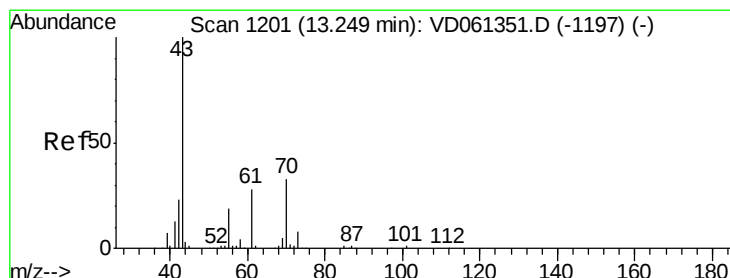
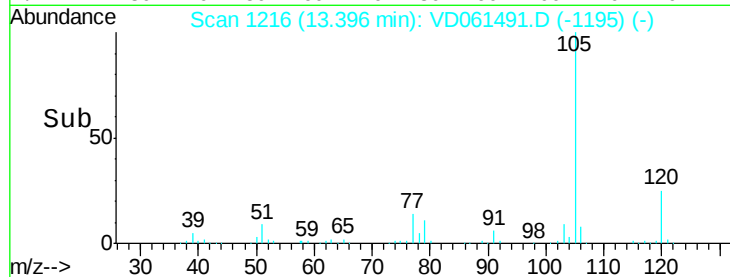
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 21.850 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Tgt Ion: 43 Resp: 155275

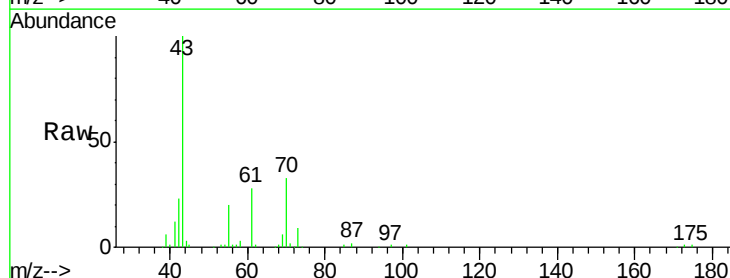
Ion Ratio Lower Upper

43 100

70 33.3 26.6 40.0

55 19.6 15.4 23.2

61 27.6 22.2 33.4



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

13.26

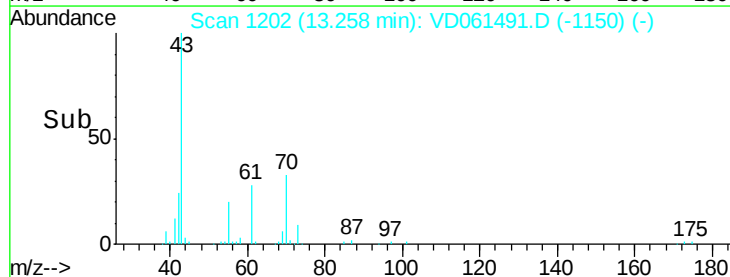
150000

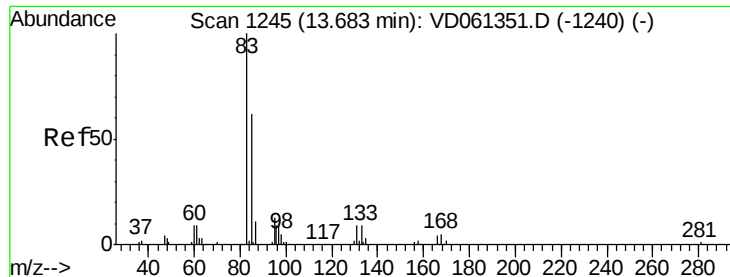
100000

50000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 22.264 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

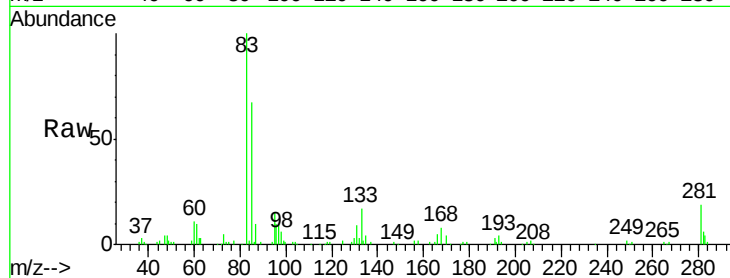
Tot Ion: 83 Resp: 119811

Ion Ratio Lower Upper

83 100

131 9.4 4.3 13.1

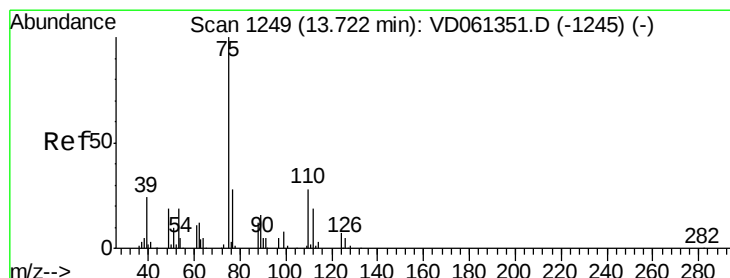
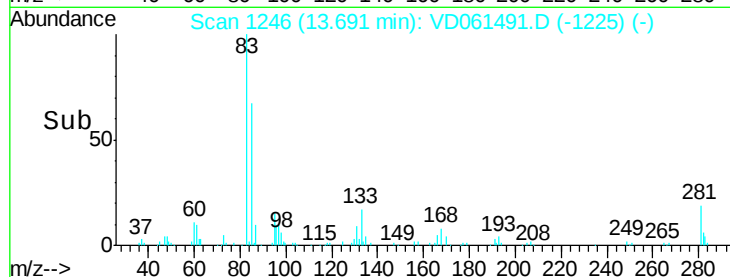
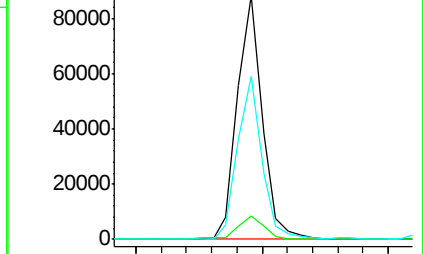
85 66.9 31.2 93.6



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 23.026 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VD061491.D

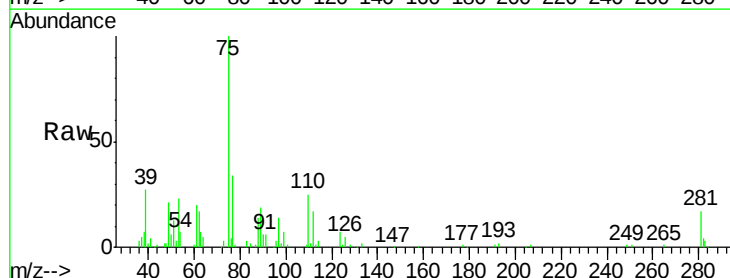
Acq: 2 Apr 2019 3:31

Tgt Ion: 75 Resp: 121914

Ion Ratio Lower Upper

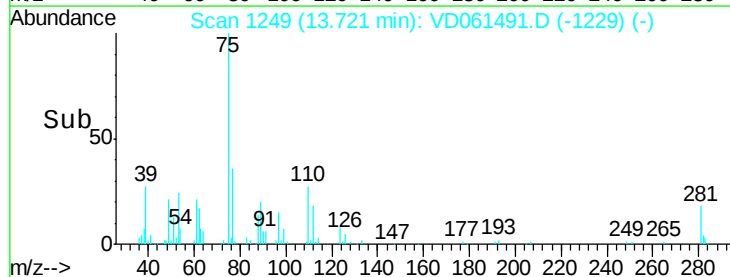
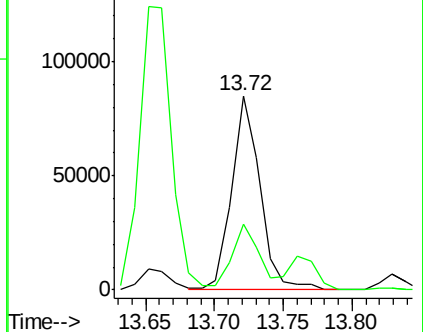
75 100

77 33.9 16.2 48.5



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.424 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

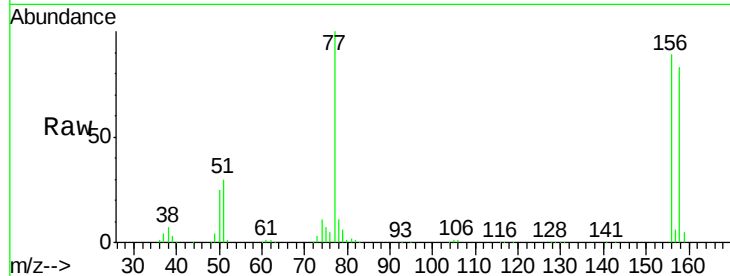
Tot Ion:156 Resp: 154460

Ion Ratio Lower Upper

156 100

77 112.4 68.5 205.6

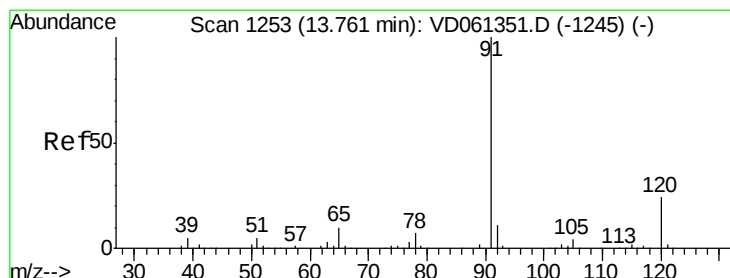
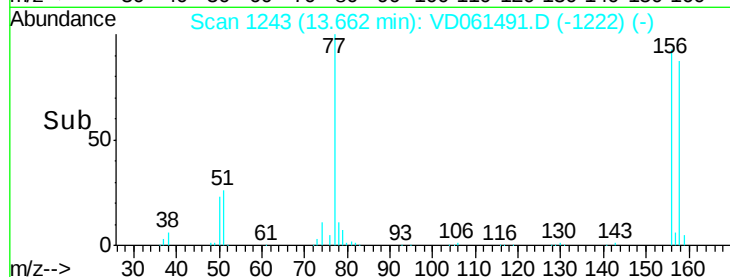
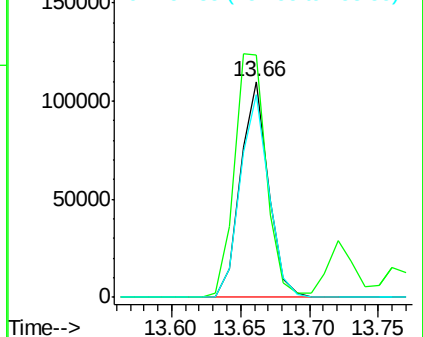
158 93.7 49.1 147.3



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.308 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VD061491.D

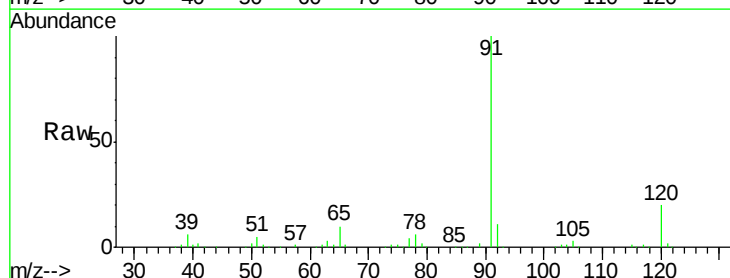
Acq: 2 Apr 2019 3:31

Tgt Ion: 91 Resp: 602775

Ion Ratio Lower Upper

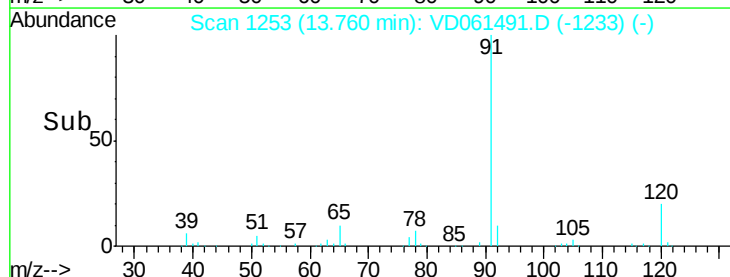
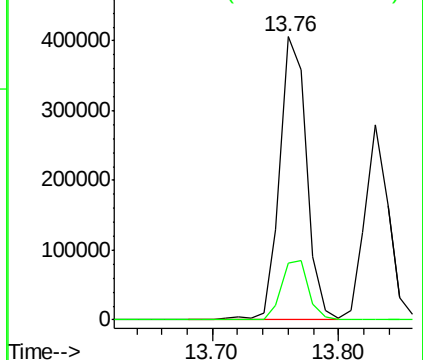
91 100

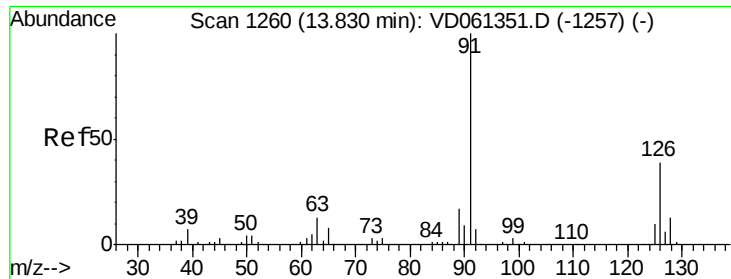
120 20.1 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.799 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

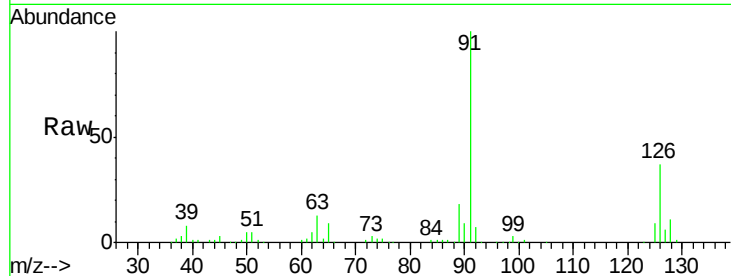
VD0401SBS02

Tot Ion: 91 Resp: 369509

Ion Ratio Lower Upper

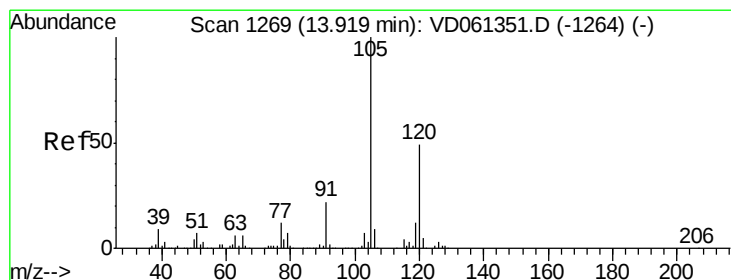
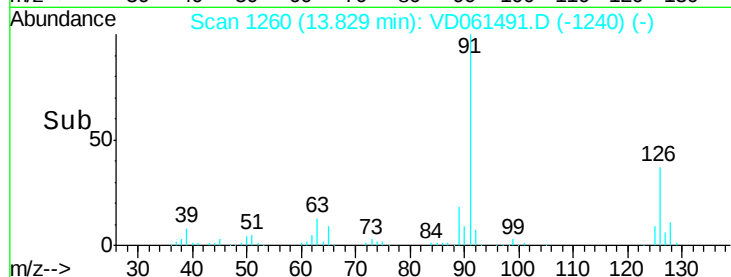
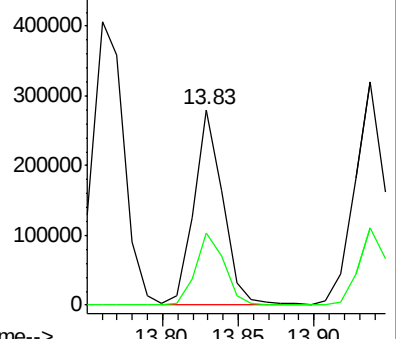
91 100

126 37.1 19.4 58.2



Abundance Ion 91.00 (90.70 to 91.70): VD061351.D (-1257) (-)

Ion 125.95 (125.65 to 126.65): VD061351.D (-1257) (-)



#80

1,3,5-Trimethylbenzene

Concen: 23.924 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VD061491.D

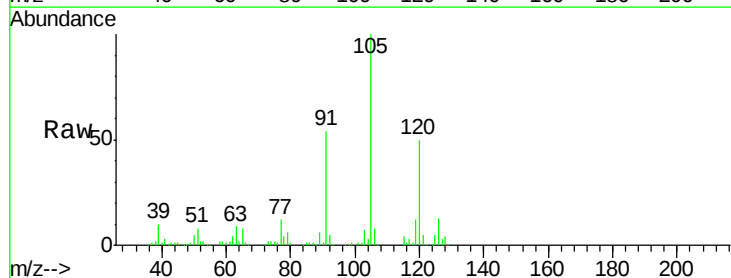
Acq: 2 Apr 2019 3:31

Tgt Ion: 105 Resp: 473533

Ion Ratio Lower Upper

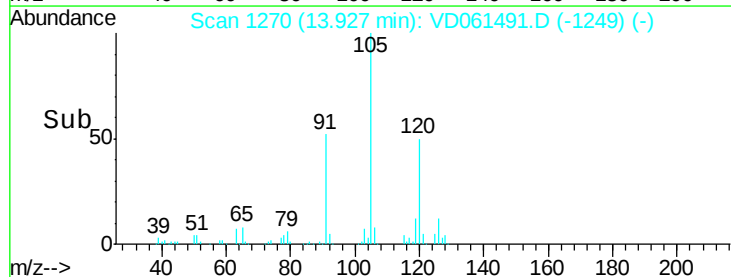
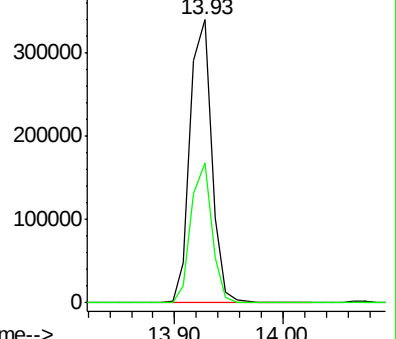
105 100

120 49.6 24.6 73.6



Abundance Ion 105.05 (104.75 to 105.75): VD061351.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD061351.D (-1264) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.246 ug/l

RT: 13.46 min Scan# 1223

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

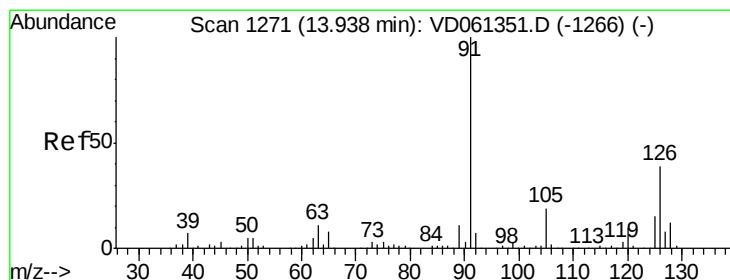
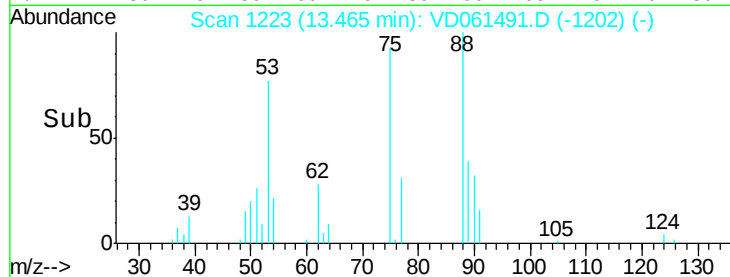
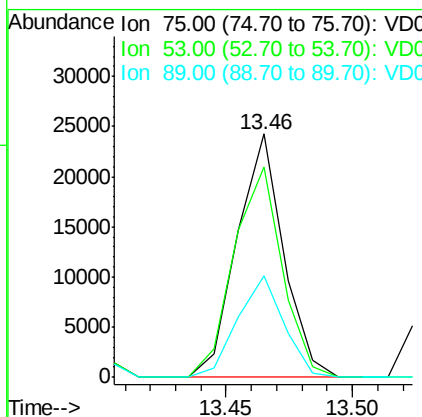
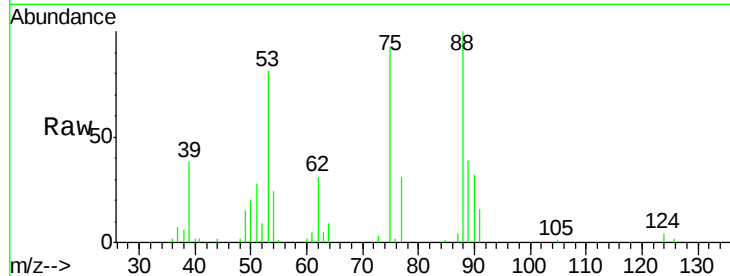
Tot Ion: 75 Resp: 31070

Ion Ratio Lower Upper

75 100

53 86.3 63.8 95.8

89 41.5 30.5 45.7



#82

4-Chlorotoluene

Concen: 23.932 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD061491.D

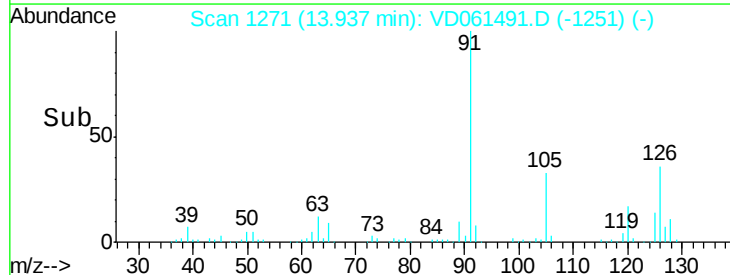
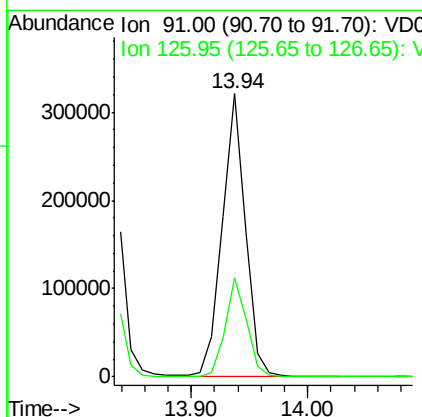
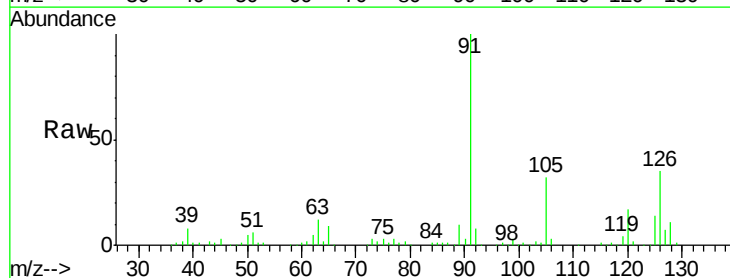
Acq: 2 Apr 2019 3:31

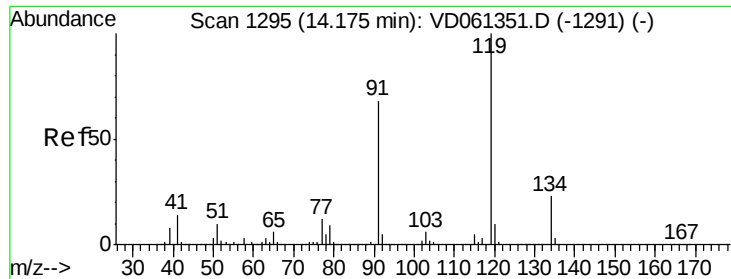
Tgt Ion: 91 Resp: 441092

Ion Ratio Lower Upper

91 100

126 34.8 19.6 58.8





#83

tert-Butylbenzene

Concen: 20.506 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

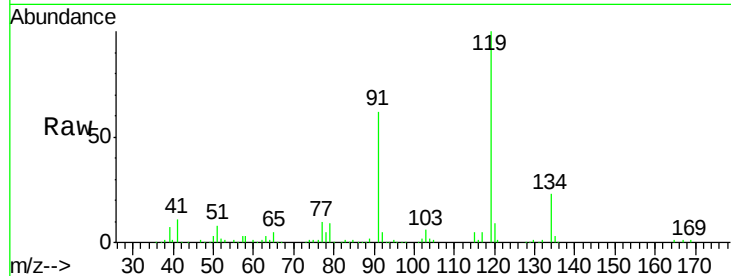
Tot Ion:119 Resp: 507241

Ion Ratio Lower Upper

119 100

91 62.4 34.1 102.3

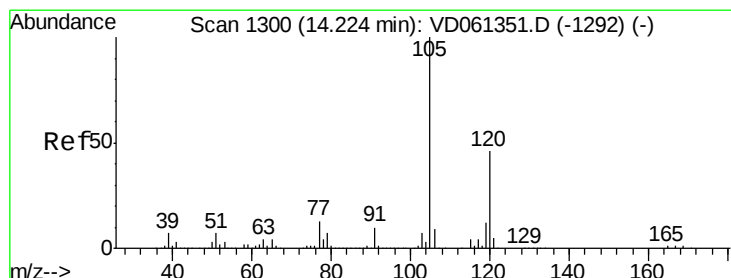
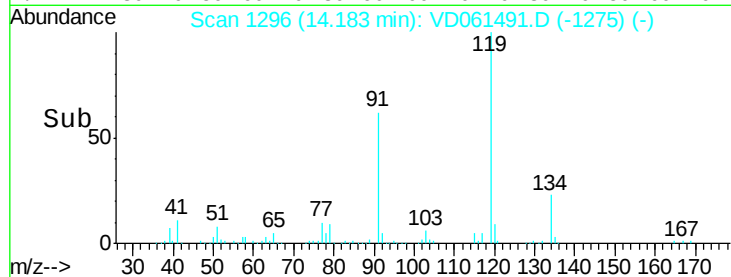
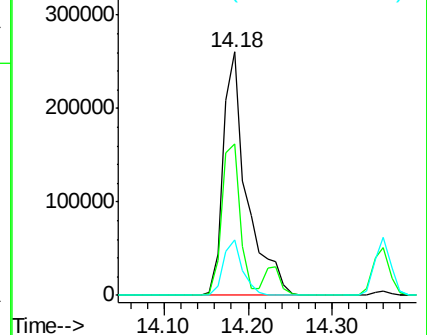
134 22.7 11.6 34.8



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.182 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD061491.D

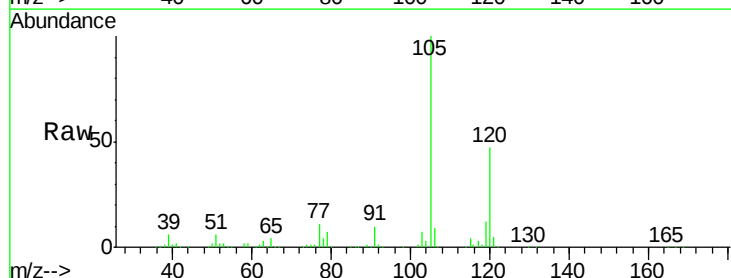
Acq: 2 Apr 2019 3:31

Tgt Ion:105 Resp: 453908

Ion Ratio Lower Upper

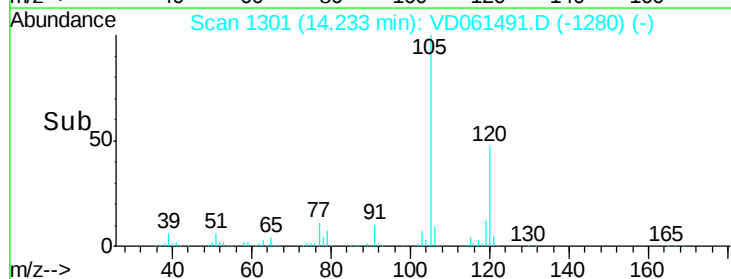
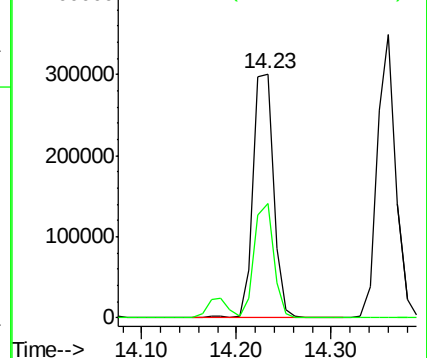
105 100

120 47.0 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 18.400 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

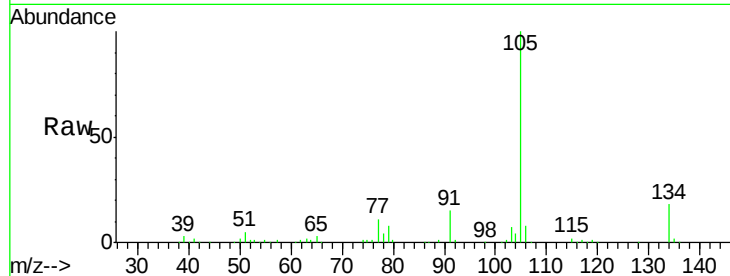
VD0401SBS02

Tot Ion:105 Resp: 483512

Ion Ratio Lower Upper

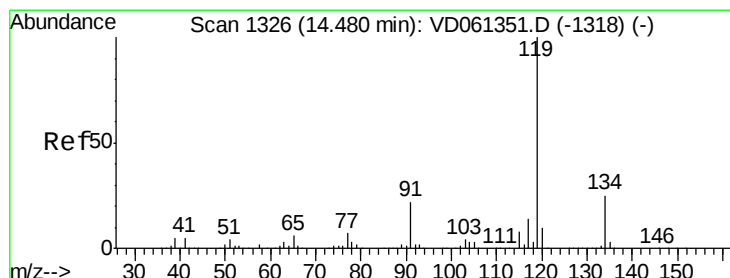
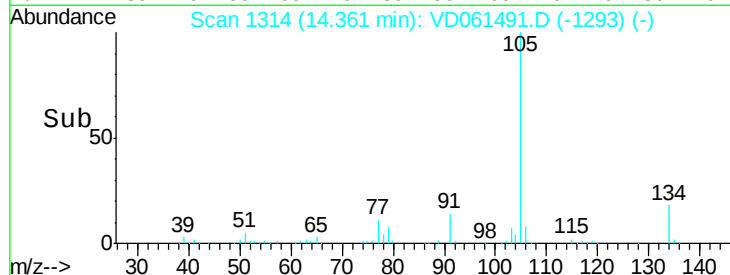
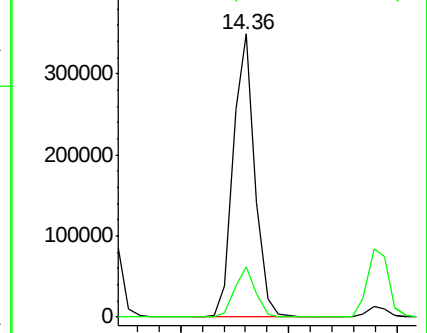
105 100

134 17.7 8.7 26.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 21.797 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

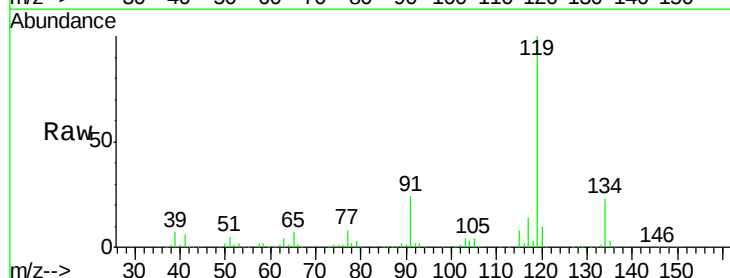
Tgt Ion:119 Resp: 484348

Ion Ratio Lower Upper

119 100

134 23.3 12.3 36.8

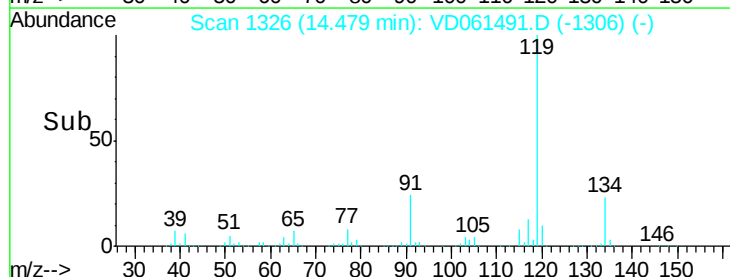
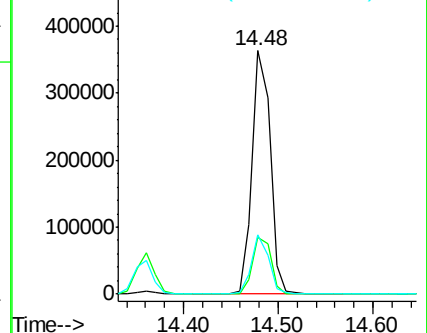
91 24.4 11.1 33.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

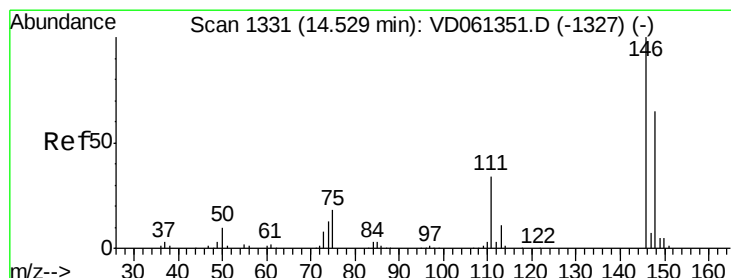
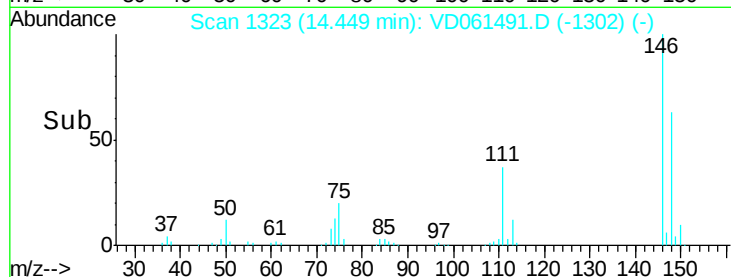
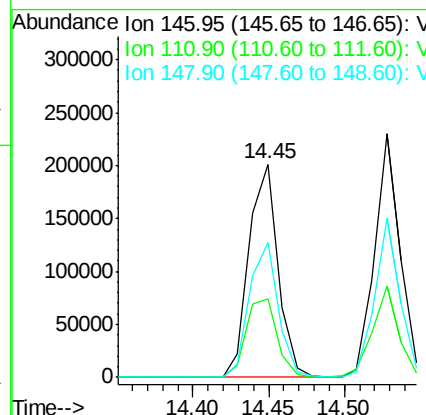
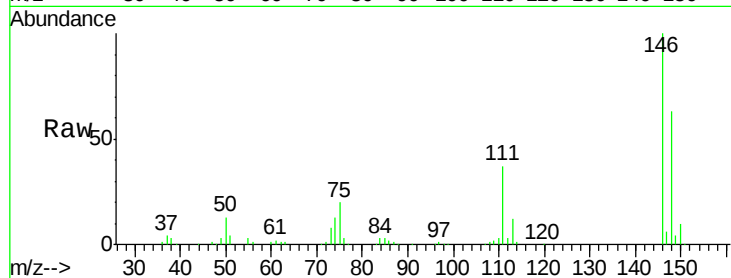




#87
 1,3-Dichlorobenzene
 Concen: 21.093 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

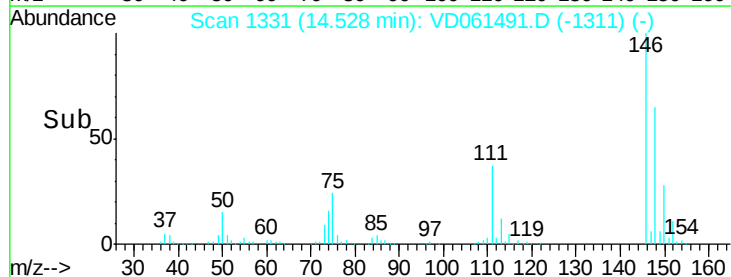
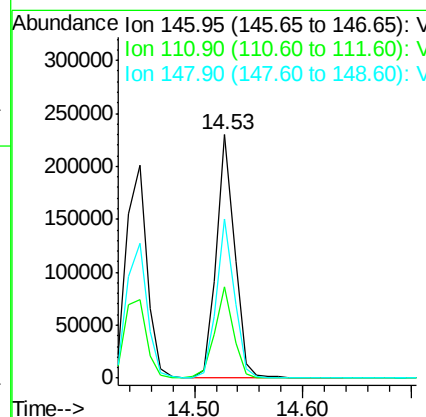
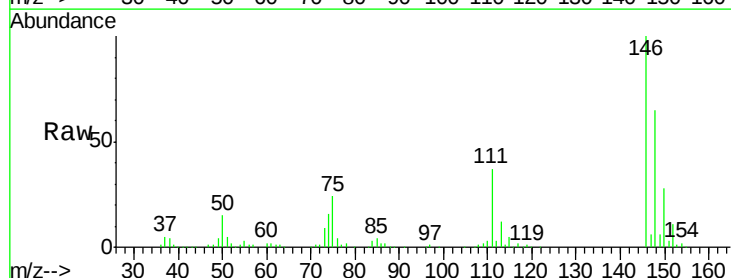
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0401SBS02

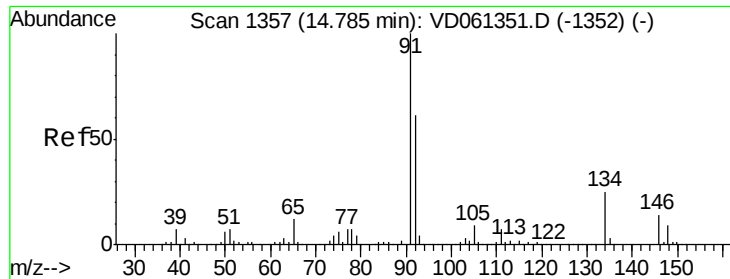
Tot Ion:146 Resp: 270127
 Ion Ratio Lower Upper
 146 100
 111 36.7 20.6 61.9
 148 63.3 31.1 93.3



#88
 1,4-Dichlorobenzene
 Concen: 21.716 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion:146 Resp: 271208
 Ion Ratio Lower Upper
 146 100
 111 37.4 16.8 50.4
 148 65.3 32.6 98.0





#89

n-Butylbenzene

Concen: 21.479 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.01 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

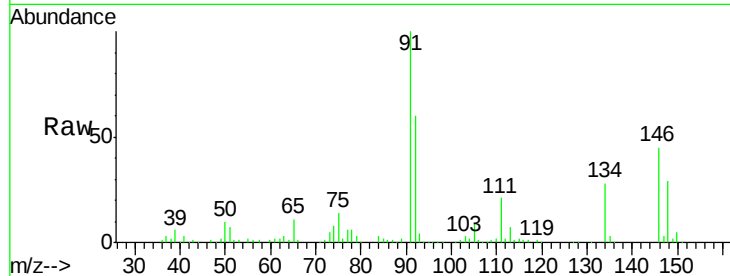
Tot Ion: 91 Resp: 438066

Ion Ratio Lower Upper

91 100

92 59.6 30.3 91.0

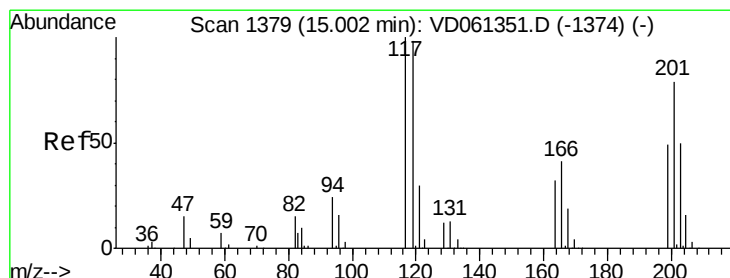
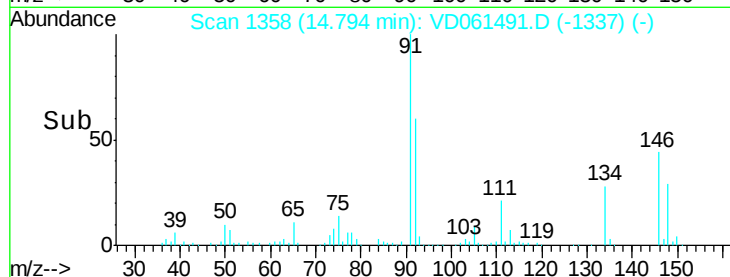
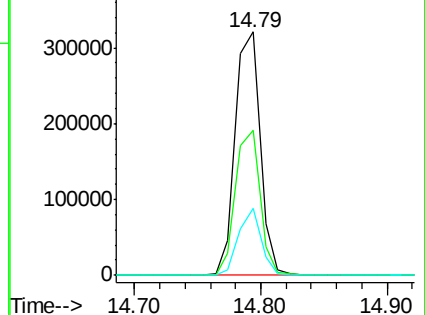
134 27.5 12.4 37.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 21.106 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.00 min

Lab File: VD061491.D

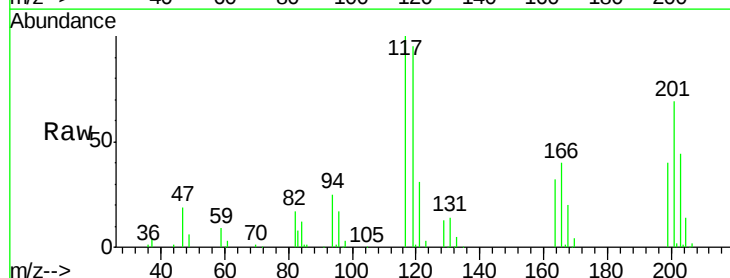
Acq: 2 Apr 2019 3:31

Tgt Ion: 117 Resp: 132493

Ion Ratio Lower Upper

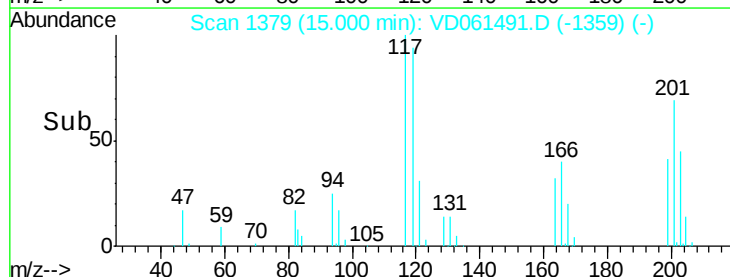
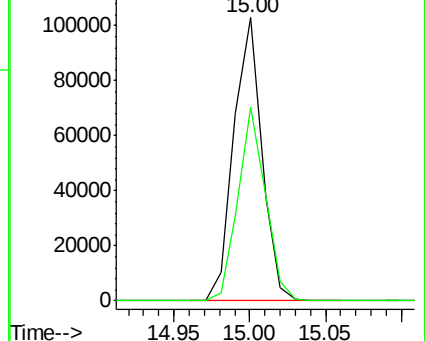
117 100

201 68.6 39.6 119.0



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

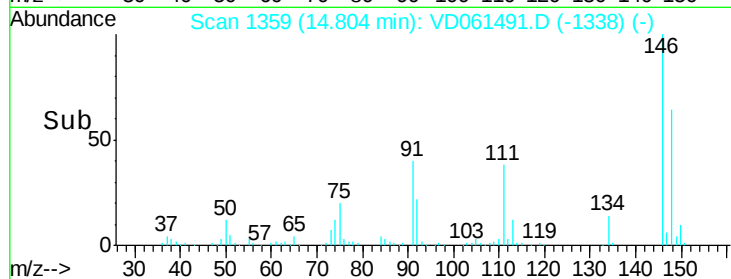
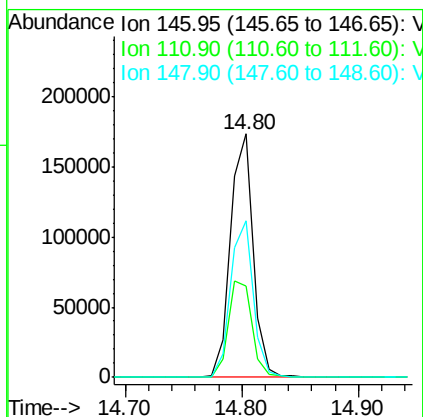
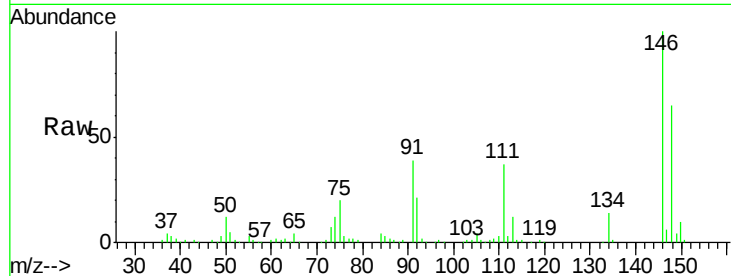




#91
 1,2-Dichlorobenzene
 Concen: 22.307 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

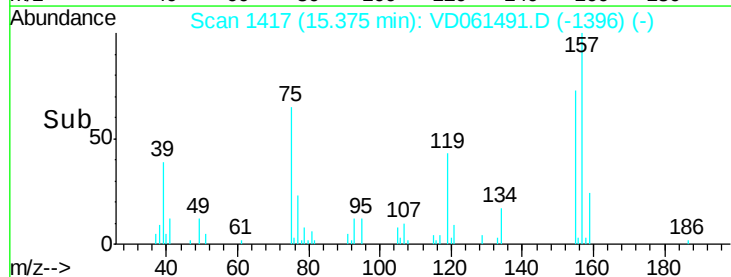
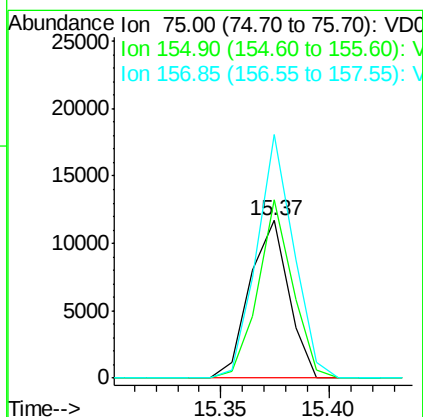
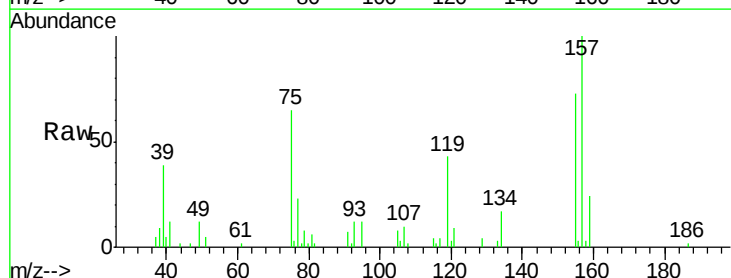
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0401SBS02

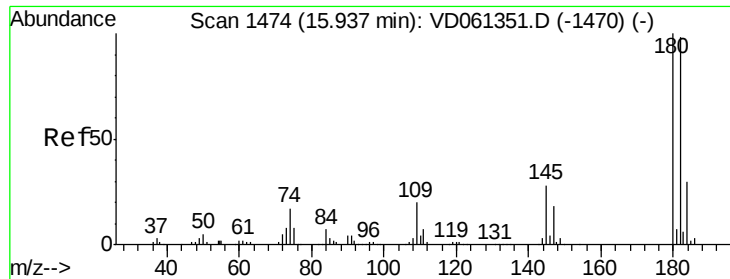
Tot Ion:146 Resp: 234328
 Ion Ratio Lower Upper
 146 100
 111 37.5 21.2 63.6
 148 64.5 31.6 95.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.985 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion: 75 Resp: 14507
 Ion Ratio Lower Upper
 75 100
 155 113.2 43.6 130.9
 157 154.6 58.5 175.3

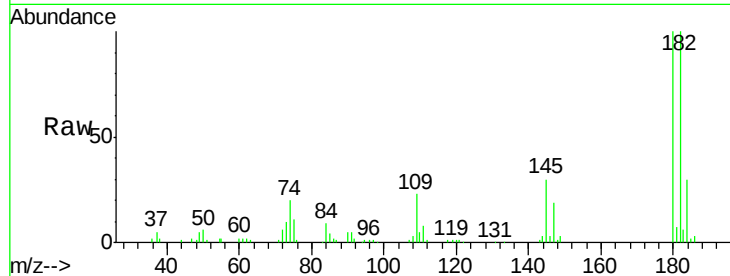




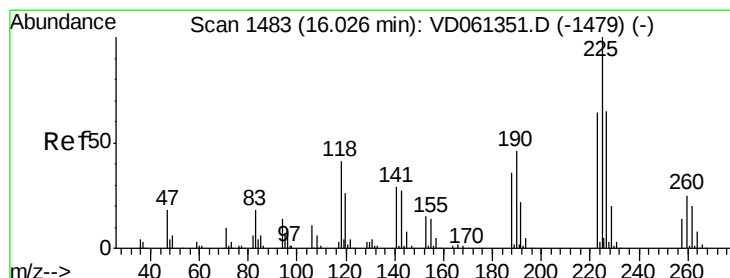
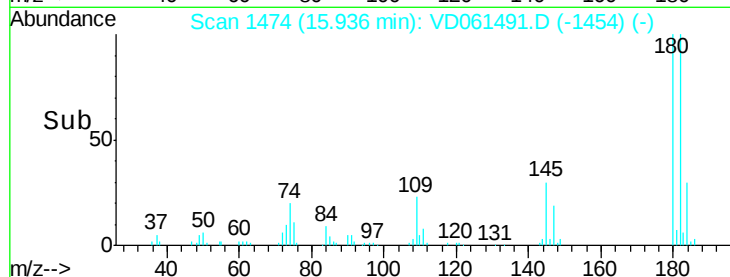
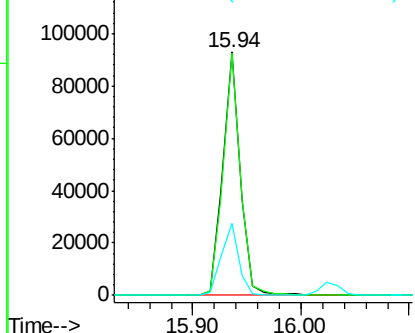
#93
 1,2,4-Trichlorobenzene
 Concen: 21.812 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0401SBS02

Tot Ion:180 Resp: 104376
 Ion Ratio Lower Upper
 180 100
 182 99.7 48.9 146.8
 145 29.8 14.1 42.3

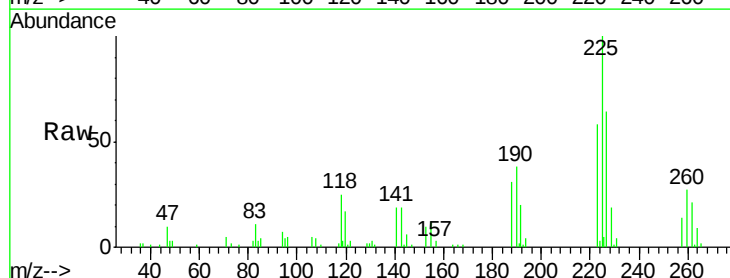


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

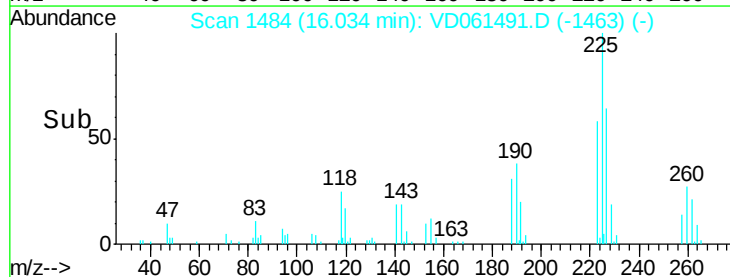
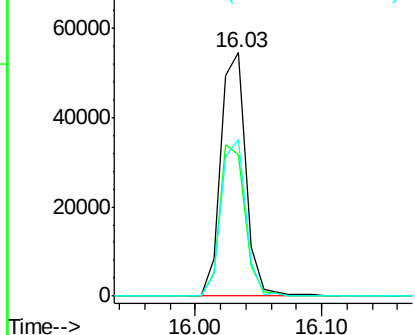


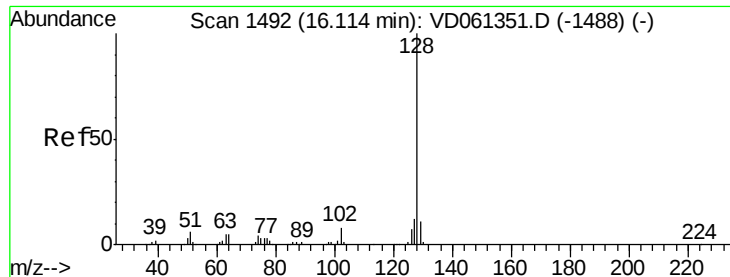
#94
 Hexachlorobutadiene
 Concen: 20.025 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.01 min
 Lab File: VD061491.D
 Acq: 2 Apr 2019 3:31

Tgt Ion:225 Resp: 74880
 Ion Ratio Lower Upper
 225 100
 223 58.2 32.0 96.0
 227 64.5 32.4 97.2



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 23.798 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

Instrument :

MSVOA_D

ClientSampleId :

VD0401SBS02

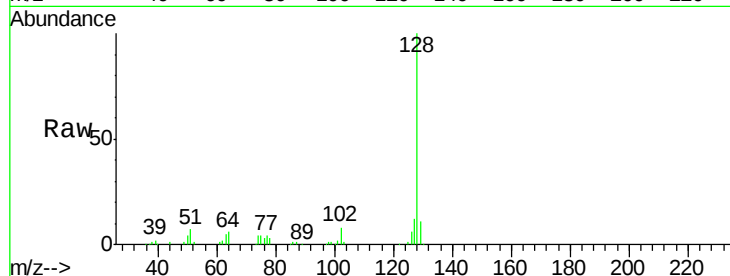
Tot Ion:128 Resp: 173583

Ion Ratio Lower Upper

128 100

127 12.1 9.9 14.9

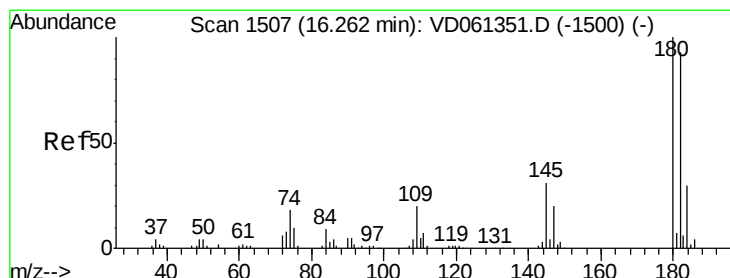
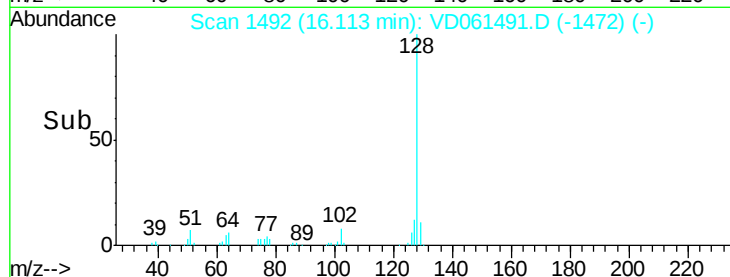
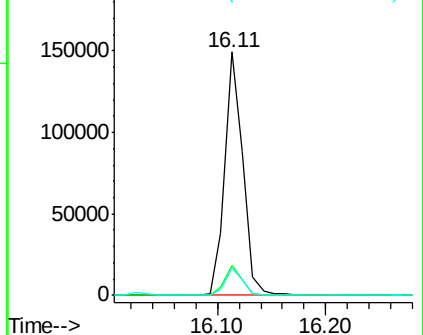
129 11.3 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 23.175 ug/l

RT: 16.26 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VD061491.D

Acq: 2 Apr 2019 3:31

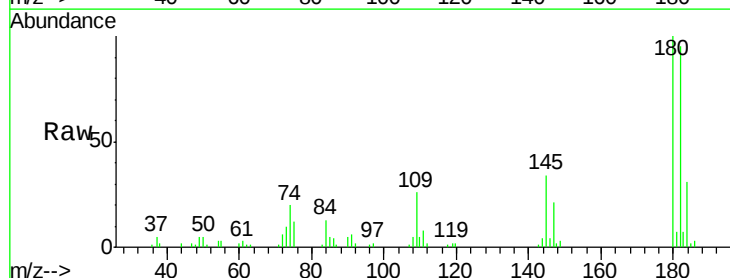
Tgt Ion:180 Resp: 48801

Ion Ratio Lower Upper

180 100

182 95.1 46.4 139.1

145 34.0 15.3 45.9



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

