

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072518\
 Data File : VD059598.D
 Acq On : 25 Jul 2018 19:28
 Operator : VA/AP
 Sample : J4026-06MS
 Misc : 5.01g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 KY030LC006-S-180716MS

Quant Time: Jul 26 04:30:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 07:10:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	4965	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.67	114	8374	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	7602	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.91	152	4668	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.99	65	6957	111.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	222.92%	
35) Dibromofluoromethane	5.52	113	3821	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
50) Toluene-d8	8.70	98	7799	47.86	ug/l	0.02
Spiked Amount	50.000		Recovery	=	95.72%	
62) 4-Bromofluorobenzene	11.92	95	4156	56.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.24%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.33	85	1686	28.24	ug/l	97
3) Chloromethane	1.46	50	1219	39.28	ug/l #	41
4) Vinyl Chloride	1.53	62	954	29.54	ug/l #	43
5) Bromomethane	1.77	94	925	149.30	ug/l #	69
6) Chloroethane	1.87	64	220	23.29	ug/l #	43
7) Trichlorofluoromethane	2.07	101	2689	48.81	ug/l #	79
8) Diethyl Ether	2.32	74	730	68.93	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.53	101	1180	40.65	ug/l #	19
10) Methyl Iodide	2.68	142	1108	30.16	ug/l #	83
11) Tert butyl alcohol	3.23	59	3514	1411.17	ug/l #	80
12) 1,1-Dichloroethene	2.53	96	813	38.64	ug/l #	87
13) Acrolein	2.45	56	818	637.63	ug/l	92
14) Allyl chloride	2.90	41	2778	54.45	ug/l	88
15) Acrylonitrile	3.33	53	7043	1304.13	ug/l	89
16) Acetone	2.59	43	16602	1761.23	ug/l	96
17) Carbon Disulfide	2.74	76	2853	34.14	ug/l #	76
18) Methyl Acetate	2.91	43	6556	347.79	ug/l	98
19) Methyl tert-butyl Ether	3.37	73	11381	161.37	ug/l #	91
20) Methylene Chloride	3.05	84	1456	54.17	ug/l #	68
21) trans-1,2-Dichloroethene	3.36	96	1519	66.95	ug/l #	67
22) Diisopropyl ether	4.05	45	10736	80.02	ug/l #	92
23) Vinyl Acetate	3.99	43	48224	566.37	ug/l	99
24) 1,1-Dichloroethane	3.95	63	4602	54.34	ug/l #	91
25) 2-Butanone	4.81	43	22158	1541.44	ug/l	95
26) 2,2-Dichloropropane	4.77	77	3921	45.21	ug/l #	57
27) cis-1,2-Dichloroethene	4.77	96	2686	59.27	ug/l	85
28) Bromochloromethane	5.13	49	2867	85.55	ug/l #	82
29) Tetrahydrofuran	5.16	42	8177	1228.53	ug/l	96
30) Chloroform	5.30	83	7026	69.36	ug/l	92
31) Cyclohexane	5.57	56	1721	29.37	ug/l #	83
32) 1,1,1-Trichloroethane	5.49	97	5151	52.52	ug/l #	88
36) 1,1-Dichloropropene	5.73	75	2998	35.68	ug/l	92
37) Ethyl Acetate	4.90	43	7285	168.54	ug/l #	92
38) Carbon Tetrachloride	5.70	117	3611	31.38	ug/l #	83

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.26	83	1541	19.94	ug/l	85
40) Benzene	6.00	78	8992	52.18	ug/l #	90
41) Methacrylonitrile	5.10	41	3753	173.98	ug/l #	82
42) 1,2-Dichloroethane	6.11	62	8129	78.30	ug/l	85
43) Isopropyl Acetate	7.60	43	9102	151.85	ug/l	99
44) Trichloroethene	6.96	130	2356	37.70	ug/l	89
45) 1,2-Dichloropropane	7.33	63	2486	51.52	ug/l	100
46) Dibromomethane	7.45	93	3378	82.82	ug/l	91
47) Bromodichloromethane	7.73	83	5942	60.99	ug/l #	81
48) Methyl methacrylate	7.50	41	5562	139.92	ug/l	95
49) 1,4-Dioxane	7.47	88	1554	4108.69	ug/l #	74
51) 4-Methyl-2-Pentanone	8.58	43	37744	942.99	ug/l	100
52) Toluene	8.79	92	5656	49.50	ug/l	91
53) t-1,3-Dichloropropene	9.17	75	5859	66.68	ug/l	92
54) cis-1,3-Dichloropropene	8.34	75	5092	58.36	ug/l	93
55) 1,1,2-Trichloroethane	9.43	97	3455	80.48	ug/l #	87
56) Ethyl methacrylate	9.30	69	4956	101.76	ug/l	93
57) 1,3-Dichloropropane	9.65	76	6491	95.16	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.18	63	15201	664.24	ug/l	91
59) 2-Hexanone	9.77	43	30034	944.69	ug/l	100
60) Dibromochloromethane	9.95	129	4824	67.69	ug/l	95
61) 1,2-Dibromoethane	10.08	107	5109	100.43	ug/l	92
64) Tetrachloroethene	9.50	164	2723	39.53	ug/l #	77
65) Chlorobenzene	10.71	112	7685	49.31	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.84	131	3821	56.37	ug/l	96
67) Ethyl Benzene	10.85	91	11555	43.13	ug/l	97
68) m/p-Xylenes	11.00	106	7952	88.88	ug/l	82
69) o-Xylene	11.40	106	4149	47.79	ug/l	93
70) Styrene	11.42	104	7588	52.72	ug/l	94
71) Bromoform	11.59	173	4307	78.03	ug/l #	92
73) Isopropylbenzene	11.77	105	11028	33.44	ug/l	96
74) N-amyl acetate	11.64	43	7687	68.03	ug/l #	93
75) 1,1,1,2,2-Tetrachloroethane	12.07	83	6463	95.99	ug/l	85
76) 1,2,3-Trichloropropane	12.10	75	7320	94.83	ug/l	87
77) Bromobenzene	12.03	156	4257	44.10	ug/l	99
78) n-propylbenzene	12.15	91	12959	32.34	ug/l	95
79) 2-Chlorotoluene	12.21	91	8871	37.13	ug/l	98
80) 1,3,5-Trimethylbenzene	12.32	105	8013	30.78	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.83	75	1397	70.78	ug/l #	71
82) 4-Chlorotoluene	12.32	91	9810	36.31	ug/l	90
83) tert-Butylbenzene	12.57	119	9242	31.53	ug/l	96
84) 1,2,4-Trimethylbenzene	12.62	105	9424	34.05	ug/l	99
85) sec-Butylbenzene	12.75	105	8782	26.22	ug/l	100
86) p-Isopropyltoluene	12.88	119	8160	28.91	ug/l	97
87) 1,3-Dichlorobenzene	12.84	146	7148	43.78	ug/l	94
88) 1,4-Dichlorobenzene	12.92	146	7333	46.62	ug/l	98
89) n-Butylbenzene	13.19	91	7984	29.29	ug/l	97
90) Hexachloroethane	13.40	117	1737	23.03	ug/l	91
91) 1,2-Dichlorobenzene	13.19	146	6663	48.64	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	13.77	75	1659	122.23	ug/l	67

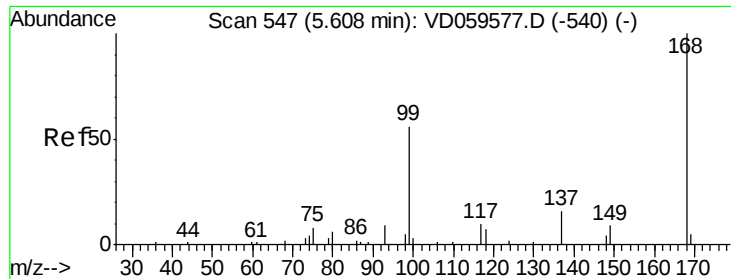
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072518\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	5166	45.54	µg/l	97
94) Hexachlorobutadiene	14.43	225	2102	23.49	µg/l	86
95) Naphthalene	14.51	128	12970	80.39	µg/l	98
96) 1,2,3-Trichlorobenzene	14.66	180	4627	45.07	µg/l	90

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 549

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

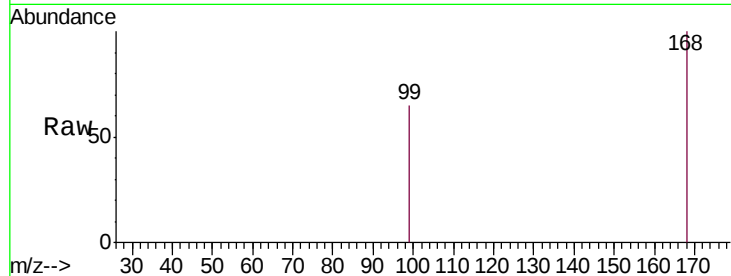
KY030LC006-S-180716MS

Tot Ion:168 Resp: 4965

Ion Ratio Lower Upper

168 100

99 64.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.63

1500

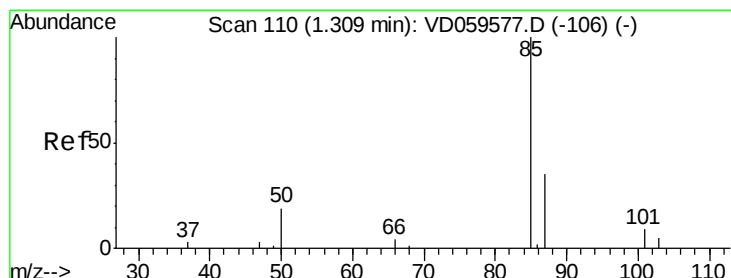
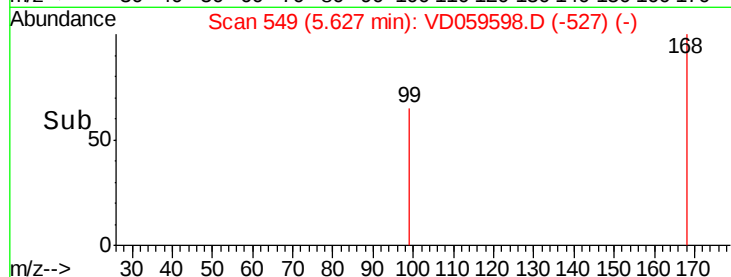
1000

500

0

5.55 5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 28.24 ug/l

RT: 1.33 min Scan# 112

Delta R.T. 0.02 min

Lab File: VD059598.D

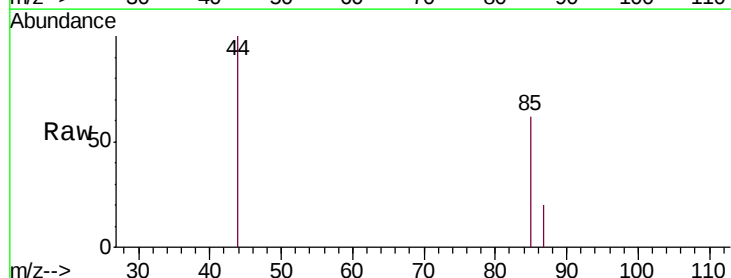
Acq: 25 Jul 2018 19:28

Tgt Ion: 85 Resp: 1686

Ion Ratio Lower Upper

85 100

87 32.7 17.3 51.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.33

1000

800

600

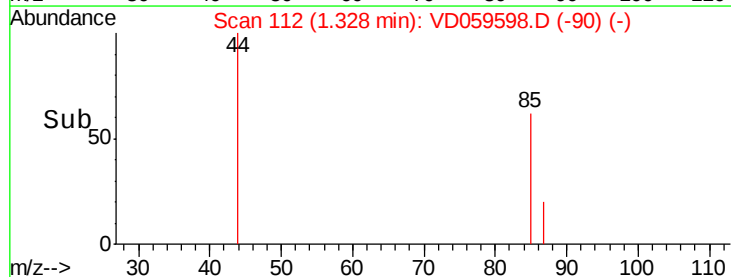
400

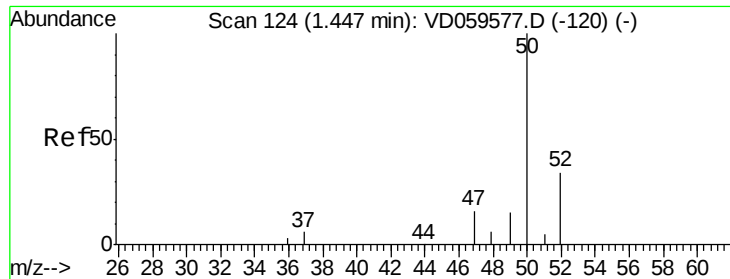
200

0

1.30 1.35

Time-->





#3

Chloromethane

Concen: 39.28 ug/l

RT: 1.46 min Scan# 125

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

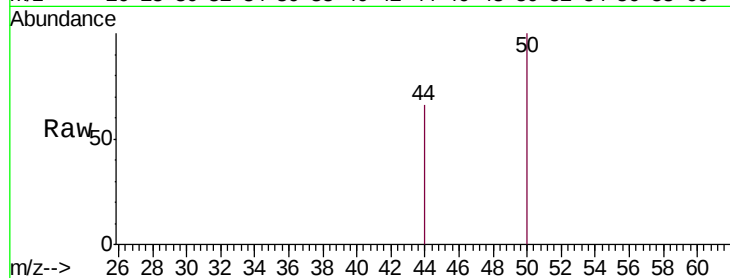
KY030LC006-S-180716MS

Tot Ion: 50 Resp: 1219

Ion Ratio Lower Upper

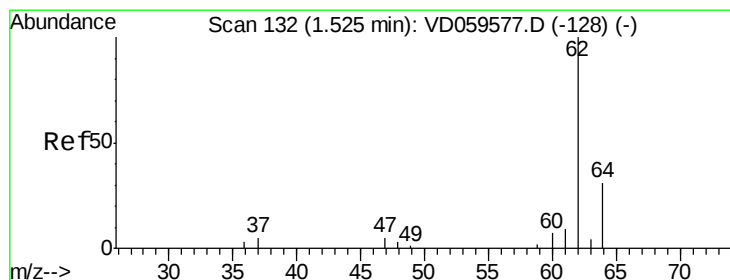
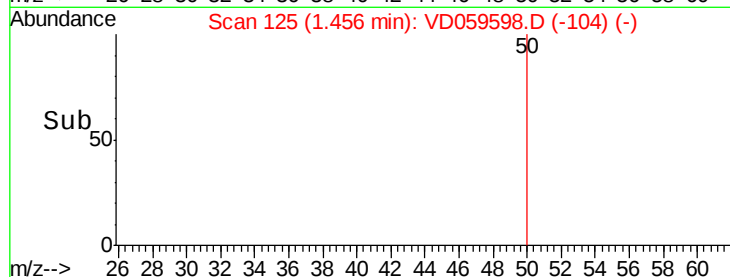
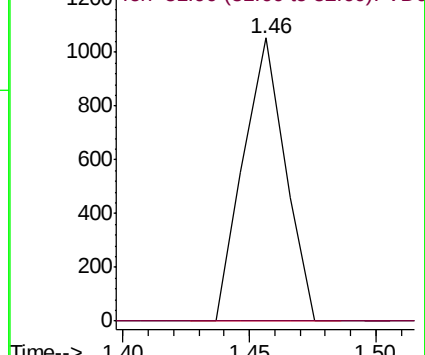
50 100

52 0.0 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 29.54 ug/l

RT: 1.53 min Scan# 133

Delta R.T. 0.01 min

Lab File: VD059598.D

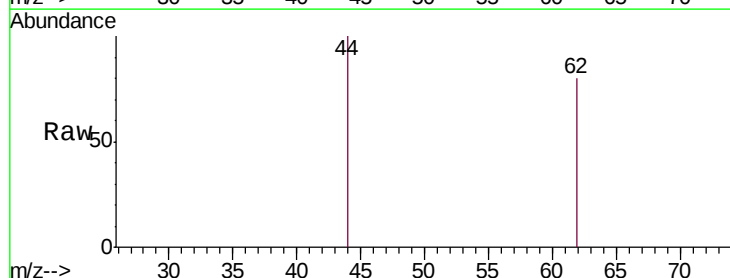
Acq: 25 Jul 2018 19:28

Tgt Ion: 62 Resp: 954

Ion Ratio Lower Upper

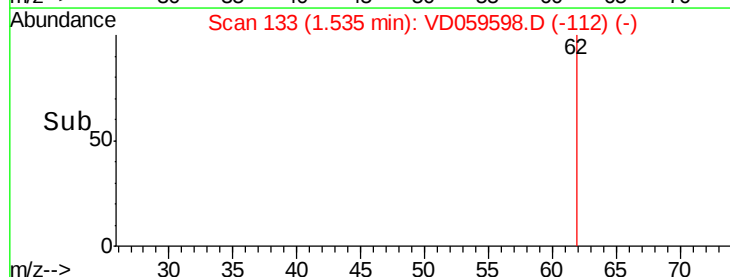
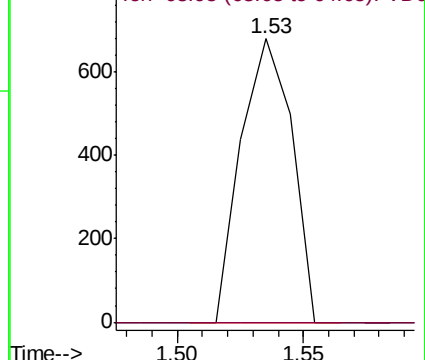
62 100

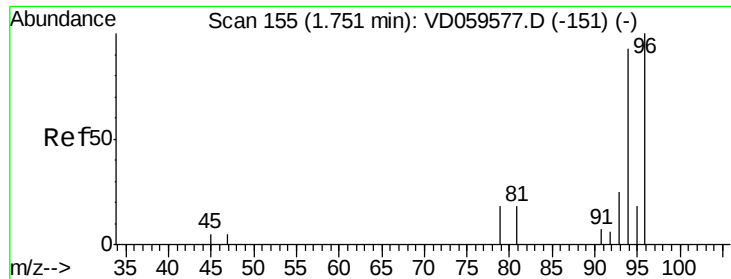
64 0.0 25.0 37.4#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 149.30 ug/l

RT: 1.77 min Scan# 157

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

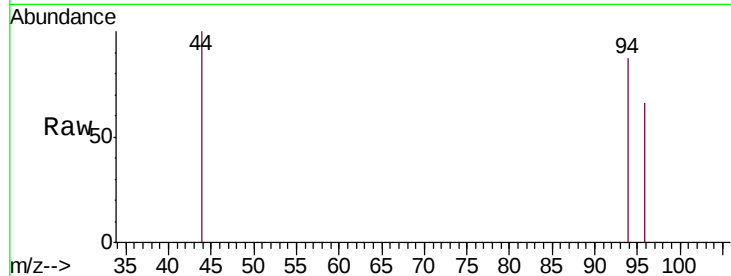
KY030LC006-S-180716MS

Tot Ion: 94 Resp: 925

Ion Ratio Lower Upper

94 100

96 75.3 86.2 129.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.77

800

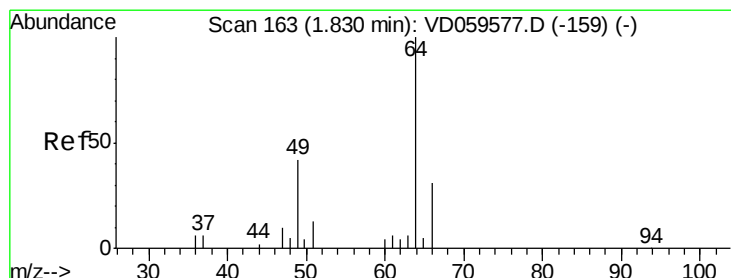
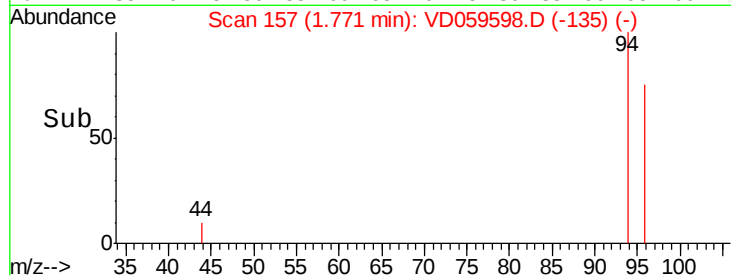
600

400

200

0

Time-->



#6

Chloroethane

Concen: 23.29 ug/l

RT: 1.87 min Scan# 167

Delta R.T. 0.04 min

Lab File: VD059598.D

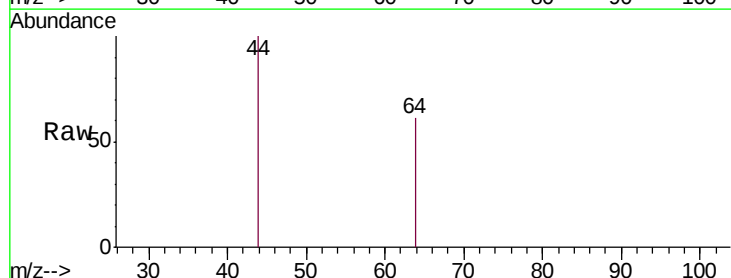
Acq: 25 Jul 2018 19:28

Tgt Ion: 64 Resp: 220

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.87

400

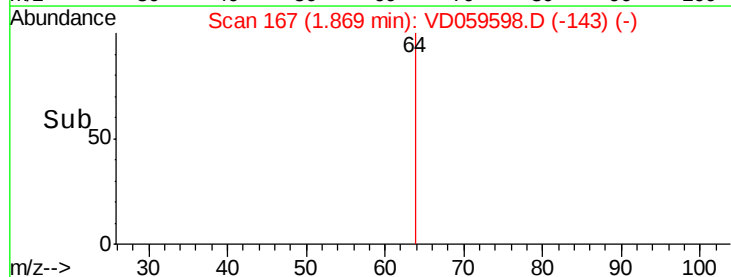
300

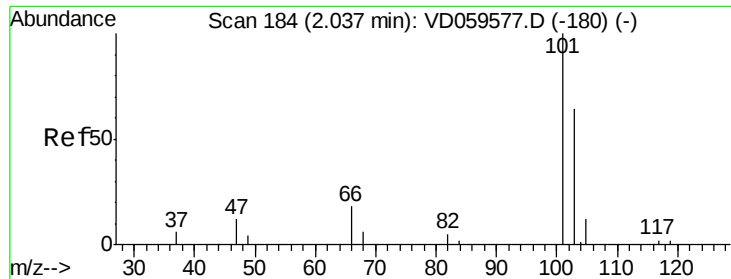
200

100

0

Time-->





#7

Trichlorofluoromethane

Concen: 48.81 ug/l

RT: 2.07 min Scan# 187

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

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ClientSampleId :

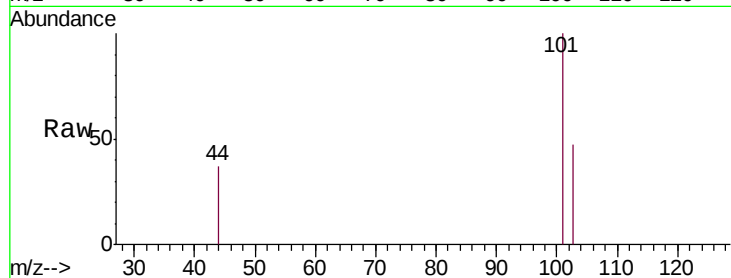
KY030LC006-S-180716MS

Tot Ion:101 Resp: 2689

Ion Ratio Lower Upper

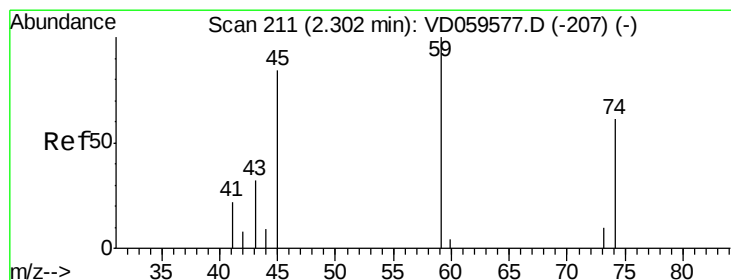
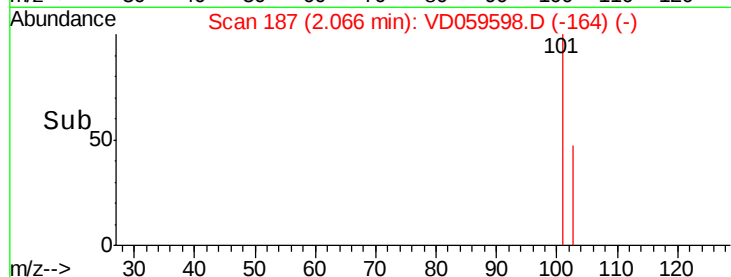
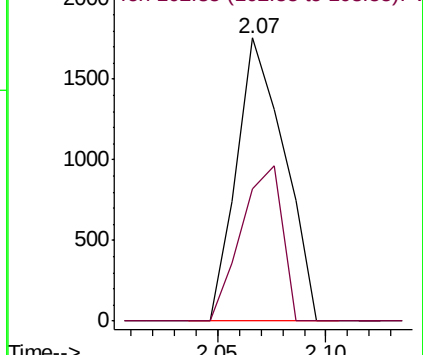
101 100

103 46.9 50.9 76.3#



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 68.93 ug/l

RT: 2.32 min Scan# 213

Delta R.T. 0.02 min

Lab File: VD059598.D

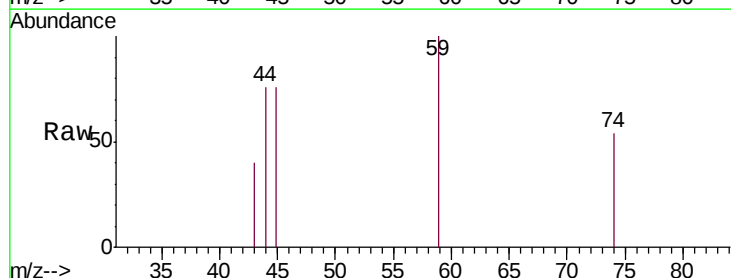
Acq: 25 Jul 2018 19:28

Tgt Ion: 74 Resp: 730

Ion Ratio Lower Upper

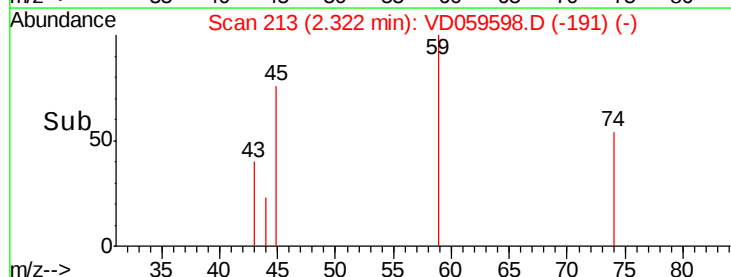
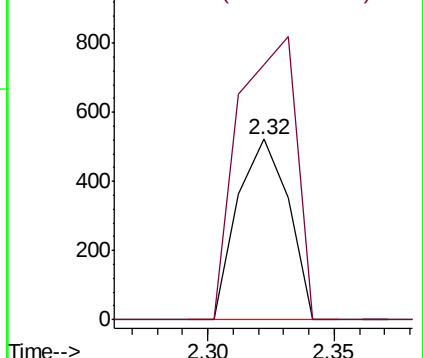
74 100

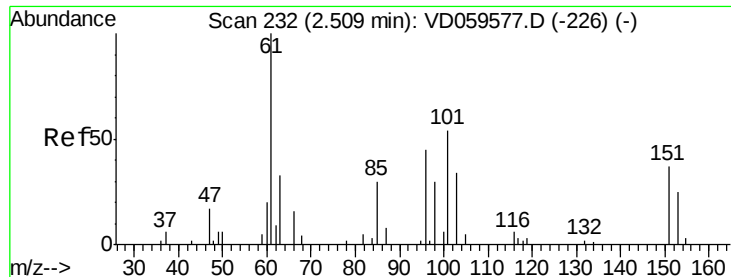
45 141.4 69.0 207.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.65 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

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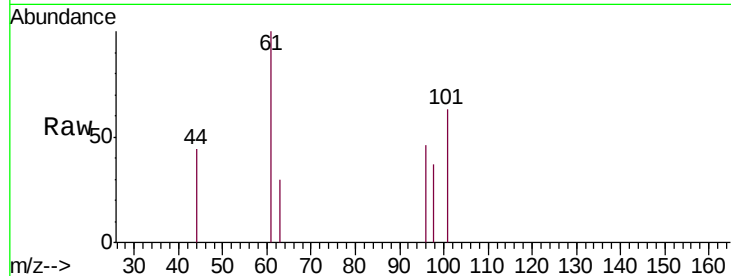
Tot Ion:101 Resp: 1180

Ion Ratio Lower Upper

101 100

85 0.0 44.5 66.7#

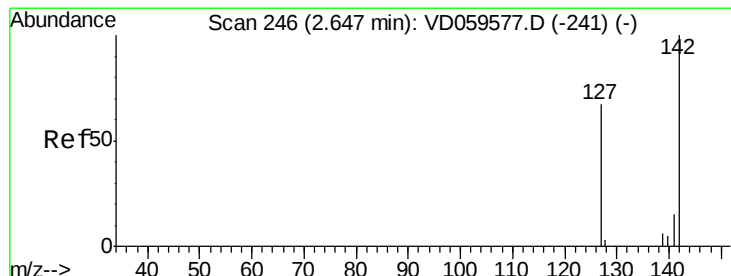
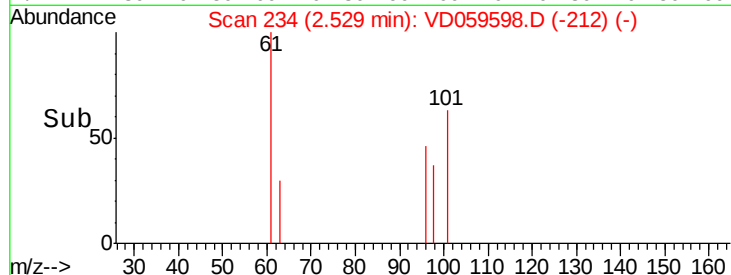
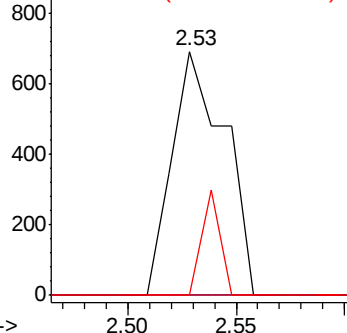
151 0.0 55.4 83.0#



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: 30.16 ug/l

RT: 2.68 min Scan# 249

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

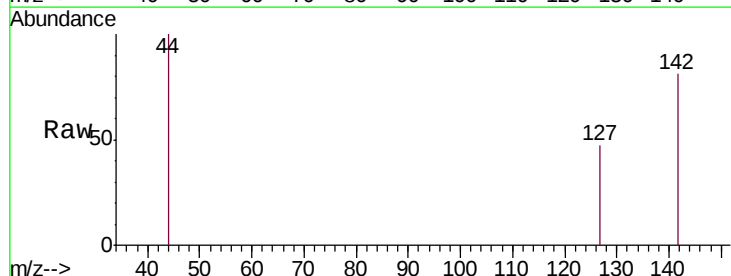
Tgt Ion:142 Resp: 1108

Ion Ratio Lower Upper

142 100

127 57.1 53.6 80.4

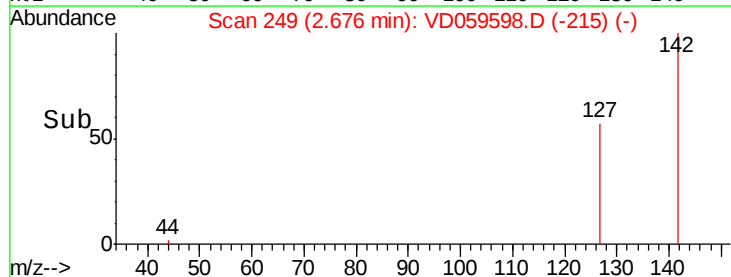
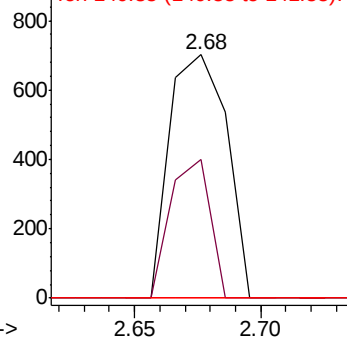
141 0.0 12.2 18.2#

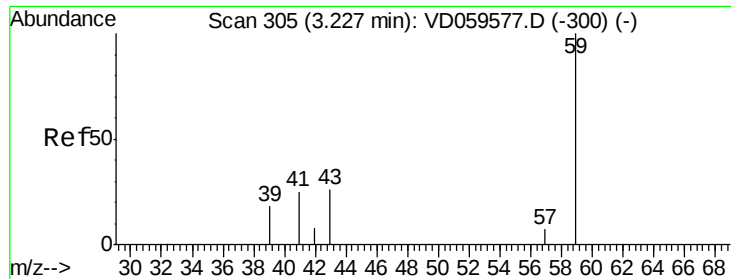


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

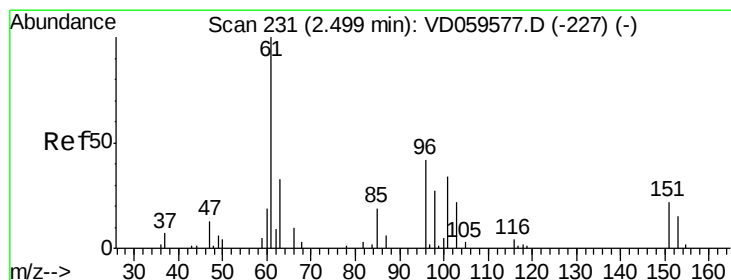
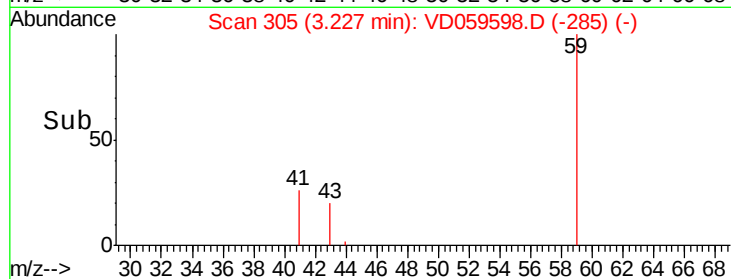
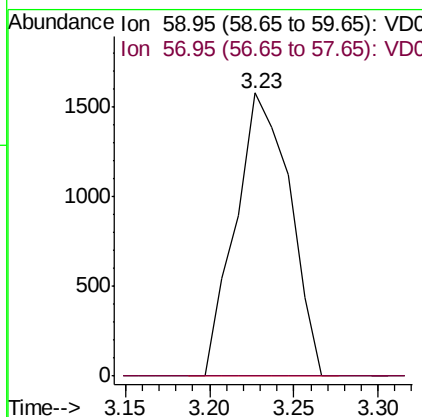
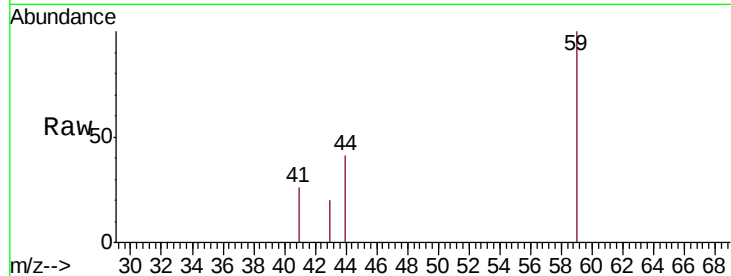




#11
Tert butyl alcohol
Concen: 1411.17 ug/l
RT: 3.23 min Scan# 305
Delta R.T. -0.00 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

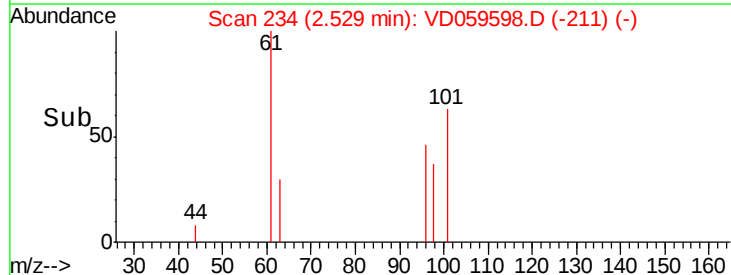
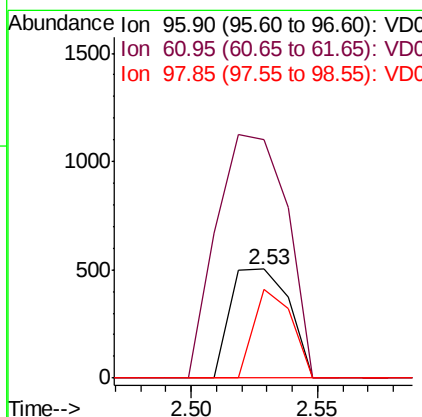
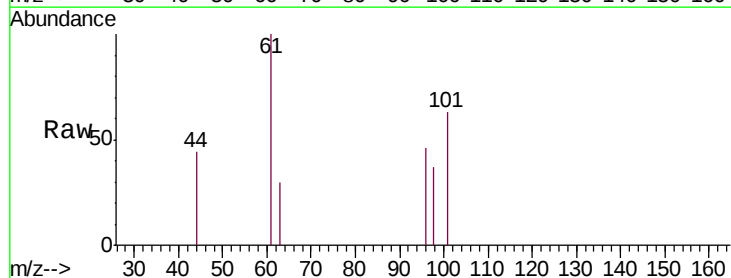
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

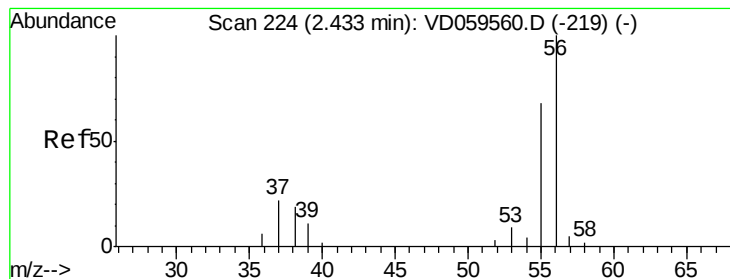
Tot Ion: 59 Resp: 3514
Ion Ratio Lower Upper
59 100
57 0.0 5.5 8.3#



#12
1,1-Dichloroethene
Concen: 38.64 ug/l
RT: 2.53 min Scan# 234
Delta R.T. 0.03 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 96 Resp: 813
Ion Ratio Lower Upper
96 100
61 218.5 188.8 283.2
98 80.9 51.4 77.2#





#13

Acrolein

Concen: 637.63 ug/l

RT: 2.45 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

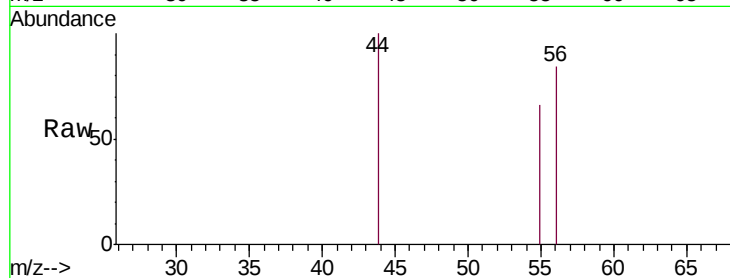
KY030LC006-S-180716MS

Tot Ion: 56 Resp: 818

Ion Ratio Lower Upper

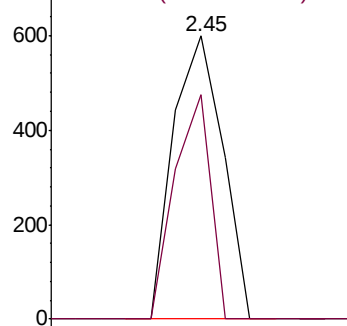
56 100

55 79.3 69.1 103.7

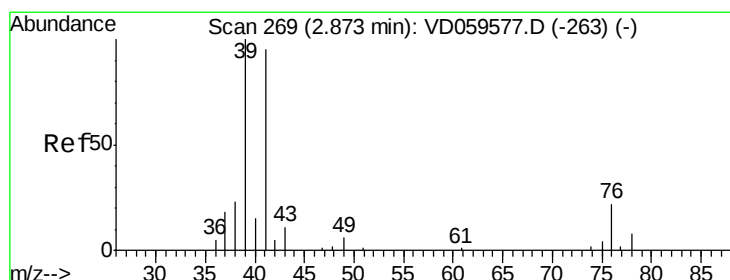
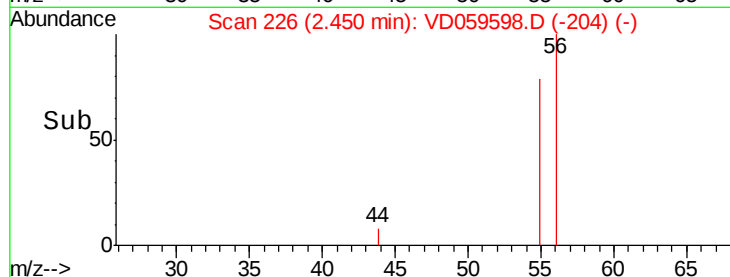


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#14

Allyl chloride

Concen: 54.45 ug/l

RT: 2.90 min Scan# 272

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

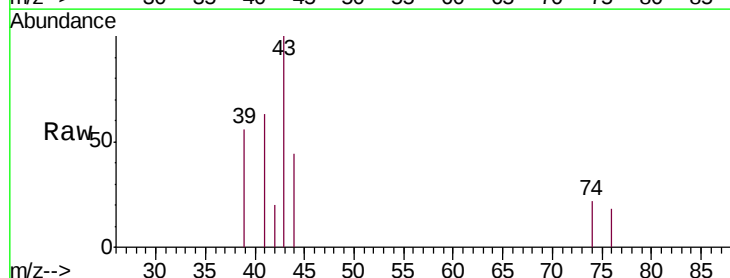
Tgt Ion: 41 Resp: 2778

Ion Ratio Lower Upper

41 100

39 89.2 83.8 125.8

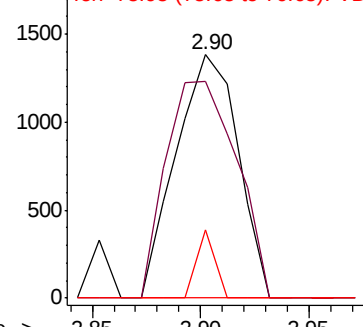
76 28.0 22.2 33.4



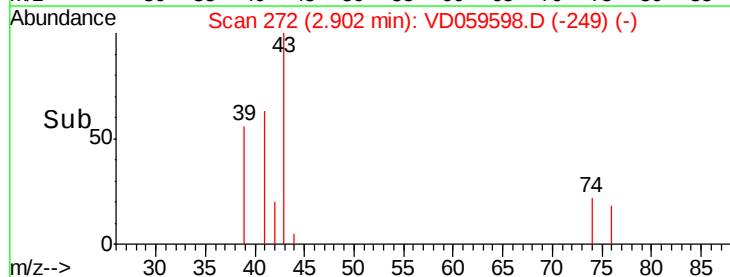
Abundance Ion 41.05 (40.75 to 41.75): VDC

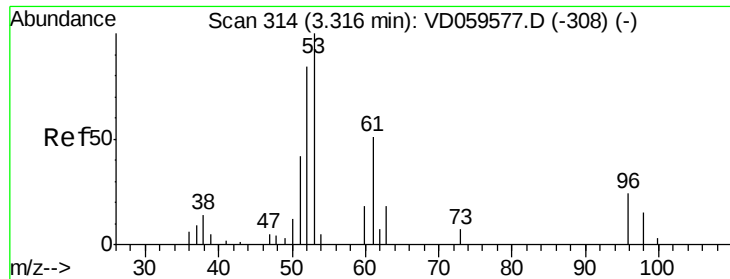
Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC



Time-->

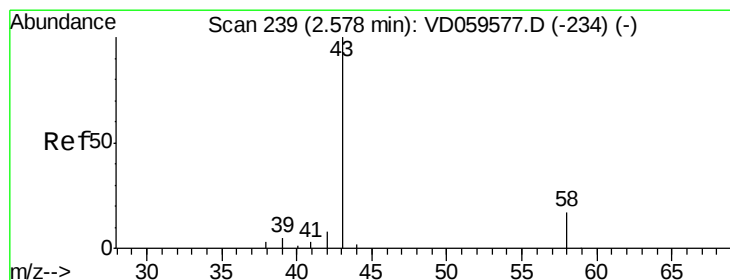
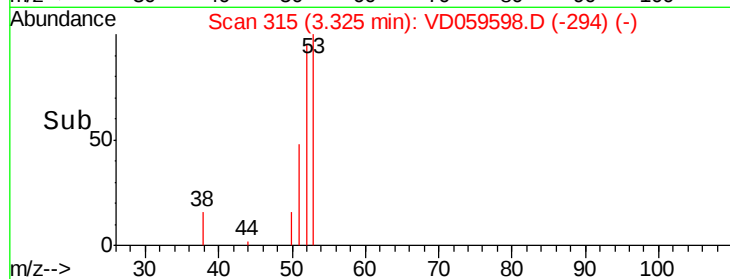
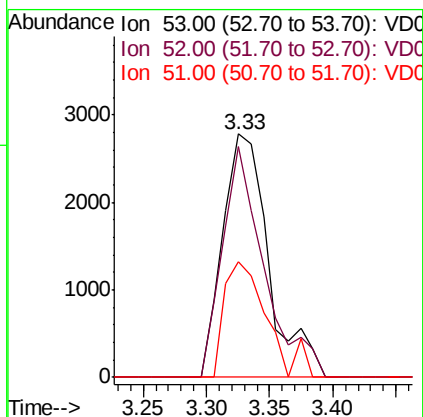
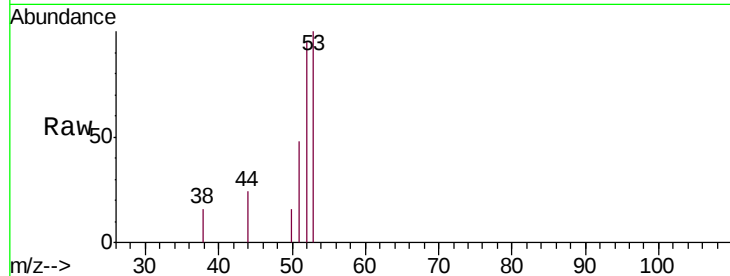




#15
 Acrylonitrile
 Concen: 1304.13 ug/l
 RT: 3.33 min Scan# 315
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

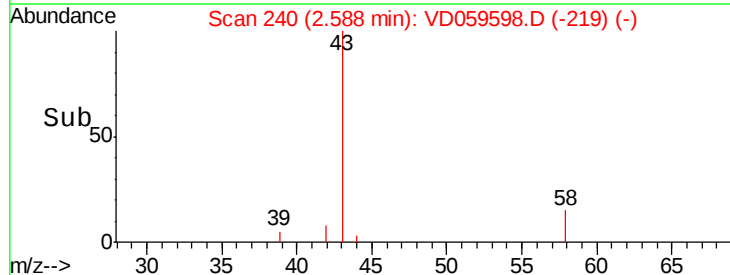
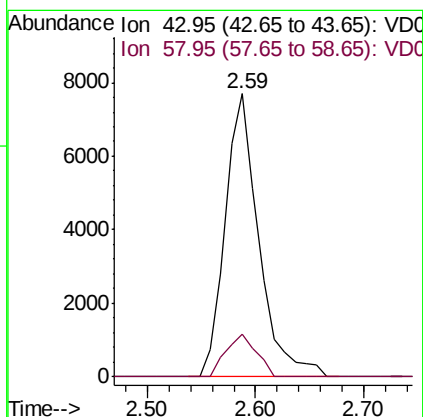
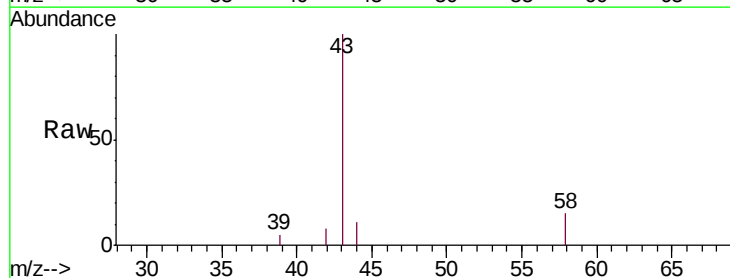
Instrument :
 MSVOA_D
 ClientSampleId :
 KY030LC006-S-180716MS

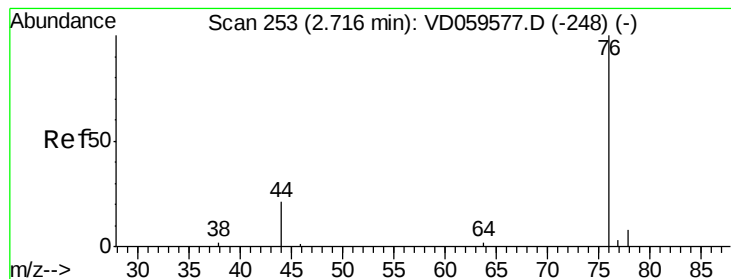
Tot Ion: 53 Resp: 7043
 Ion Ratio Lower Upper
 53 100
 52 94.9 67.6 101.4
 51 47.7 33.7 50.5



#16
 Acetone
 Concen: 1761.23 ug/l
 RT: 2.59 min Scan# 240
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

Tgt Ion: 43 Resp: 16602
 Ion Ratio Lower Upper
 43 100
 58 15.1 13.4 20.0





#17

Carbon Disulfide

Concen: 34.14 ug/l

RT: 2.74 min Scan# 255

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

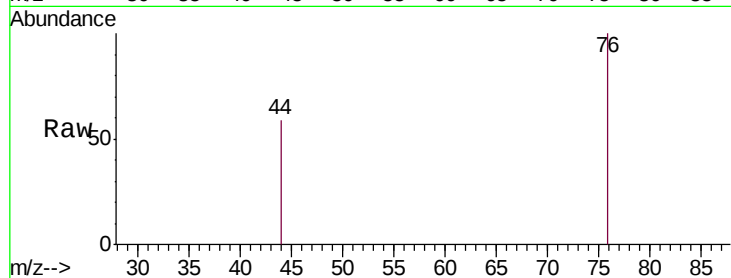
KY030LC006-S-180716MS

Tot Ion: 76 Resp: 2853

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.74

1500

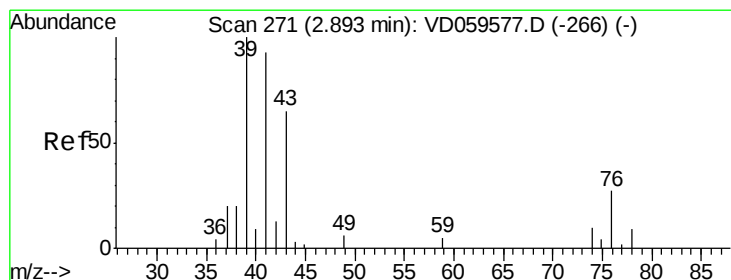
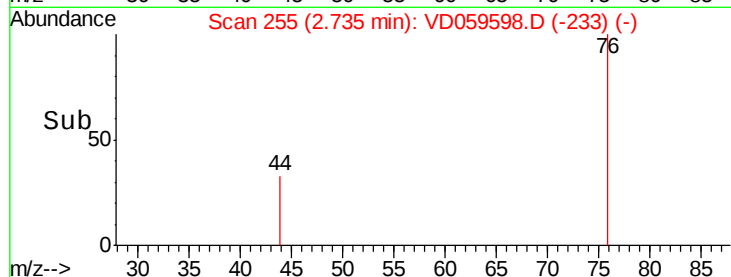
1000

500

0

2.70 2.75 2.80

Time-->



#18

Methyl Acetate

Concen: 347.79 ug/l

RT: 2.91 min Scan# 273

Delta R.T. 0.02 min

Lab File: VD059598.D

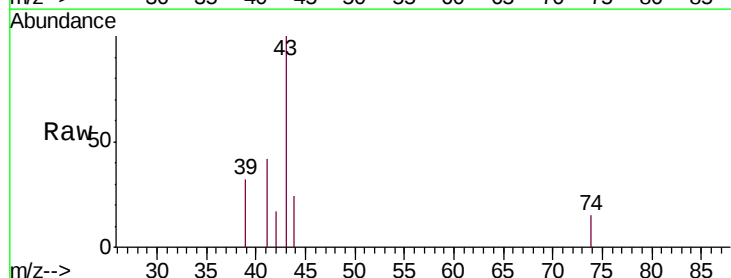
Acq: 25 Jul 2018 19:28

Tgt Ion: 43 Resp: 6556

Ion Ratio Lower Upper

43 100

74 15.2 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

2.91

3000

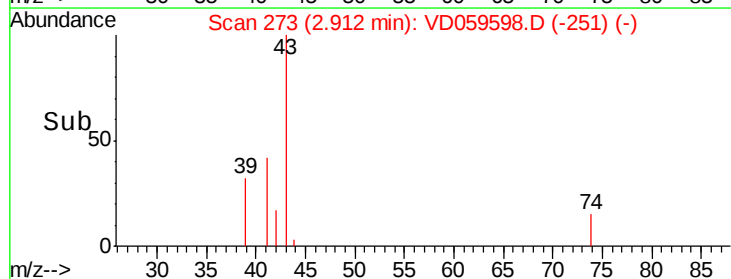
2000

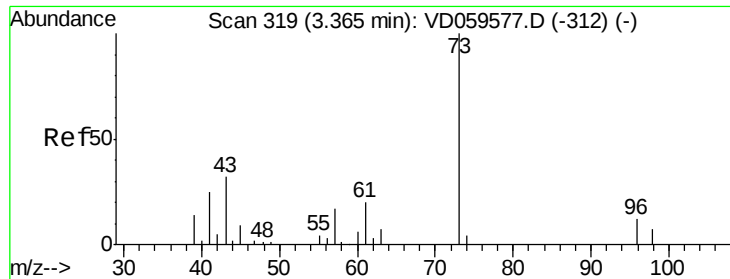
1000

0

2.85 2.90 2.95 3.00

Time-->

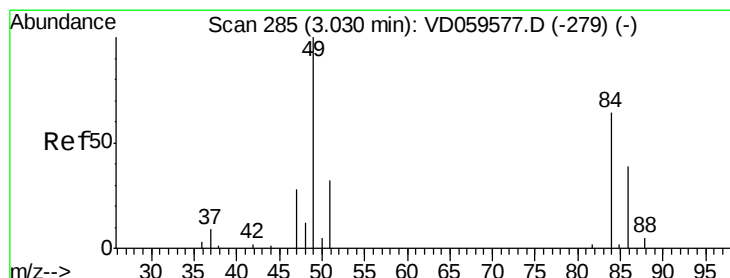
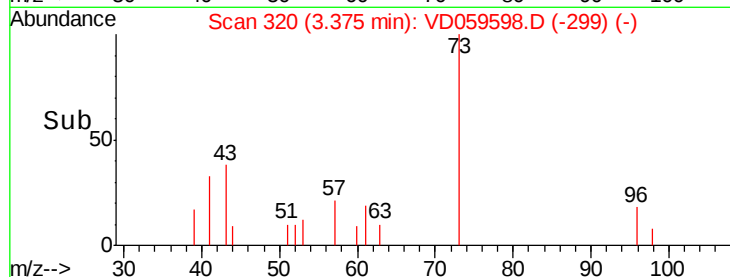
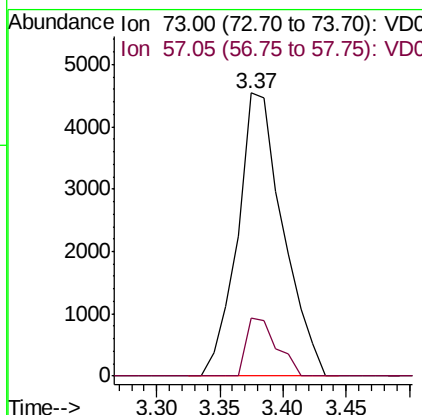
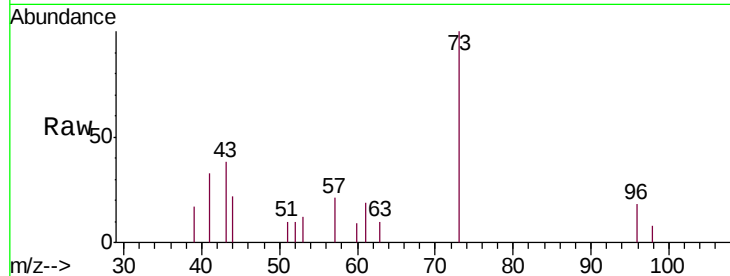




#19
Methyl tert-butyl Ether
Concen: 161.37 ug/l
RT: 3.37 min Scan# 320
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

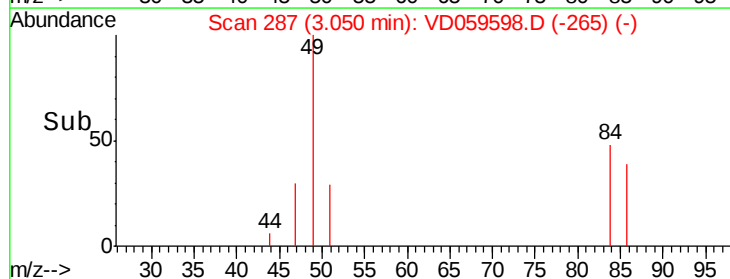
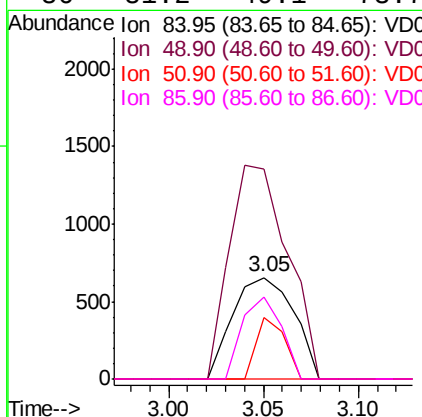
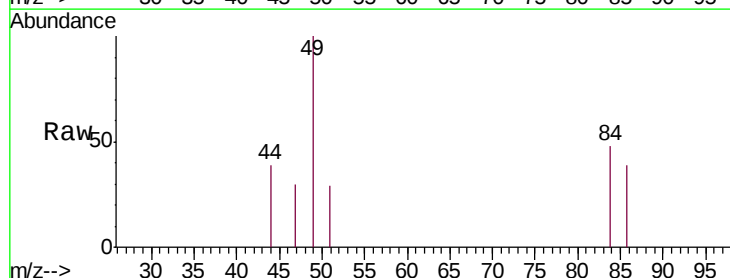
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

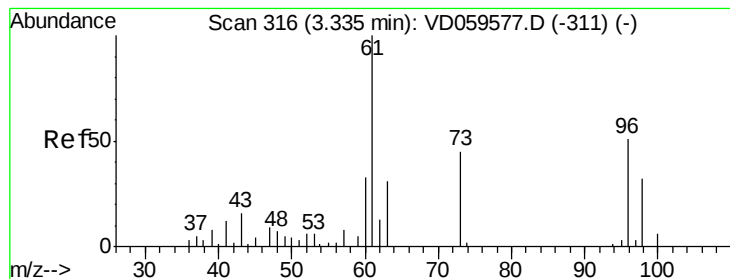
Tot Ion: 73 Resp: 11381
Ion Ratio Lower Upper
73 100
57 20.6 13.4 20.2#



#20
Methylene Chloride
Concen: 54.17 ug/l
RT: 3.05 min Scan# 287
Delta R.T. 0.02 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 84 Resp: 1456
Ion Ratio Lower Upper
84 100
49 207.4 125.4 188.2#
51 60.5 39.7 59.5#
86 81.2 49.1 73.7#





#21

trans-1,2-Dichloroethene

Concen: 66.95 ug/l

RT: 3.36 min Scan# 319

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

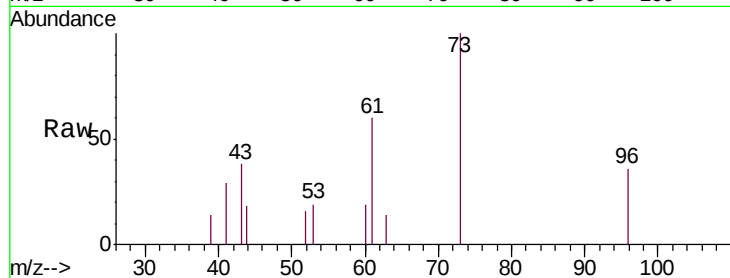
Tot Ion: 96 Resp: 1519

Ion Ratio Lower Upper

96 100

61 168.2 155.8 233.6

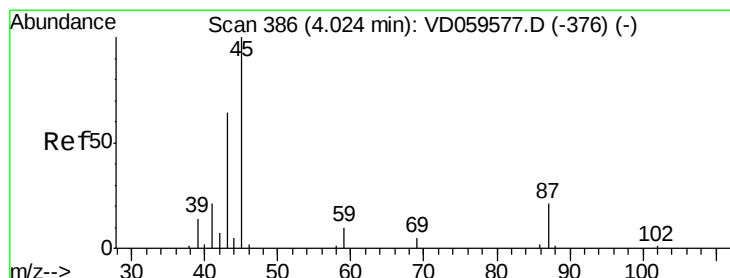
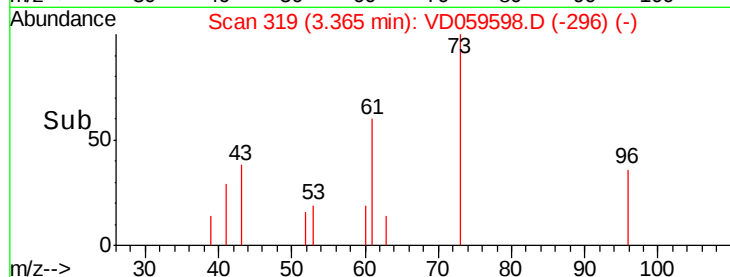
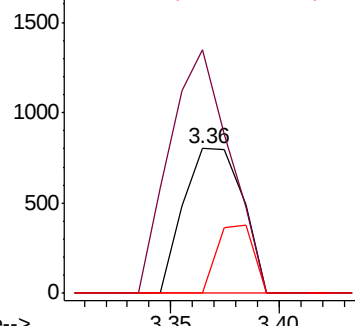
98 0.0 49.1 73.7#



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



#22

Diisopropyl ether

Concen: 80.02 ug/l

RT: 4.05 min Scan# 389

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Tgt Ion: 45 Resp: 10736

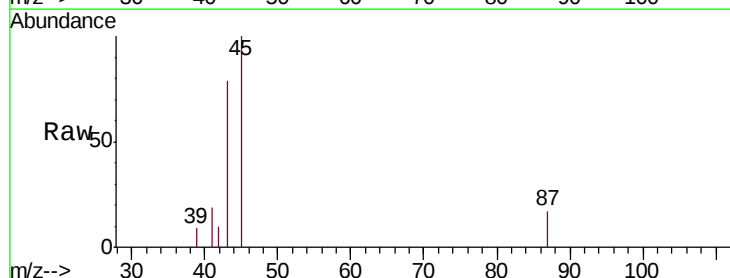
Ion Ratio Lower Upper

45 100

43 79.2 59.4 89.2

87 17.3 16.7 25.1

59 0.0 8.2 12.4#

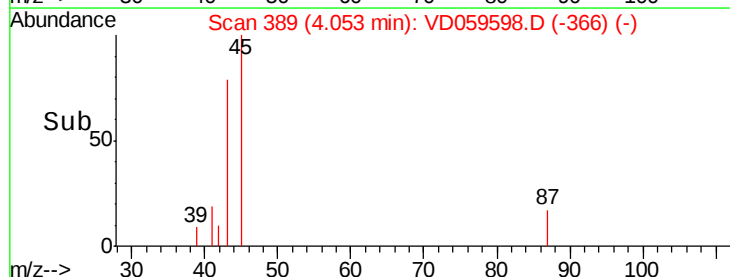
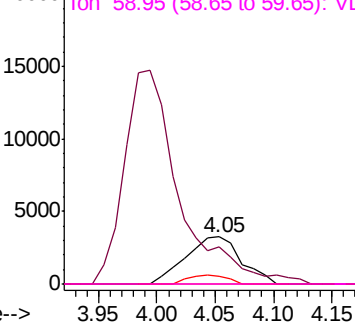


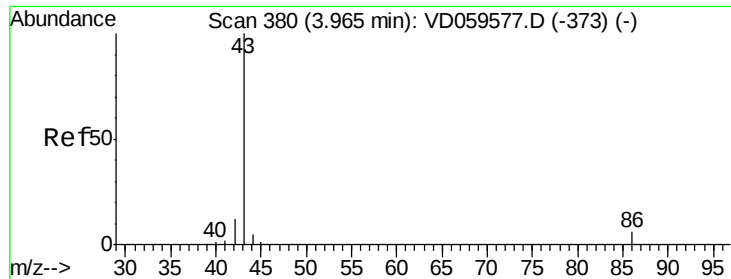
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 566.37 ug/l

RT: 3.99 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

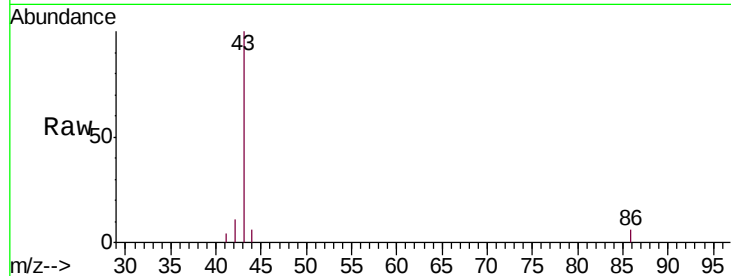
KY030LC006-S-180716MS

Tot Ion: 43 Resp: 48224

Ion Ratio Lower Upper

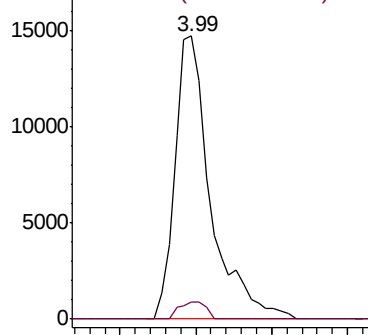
43 100

86 6.1 5.1 7.7

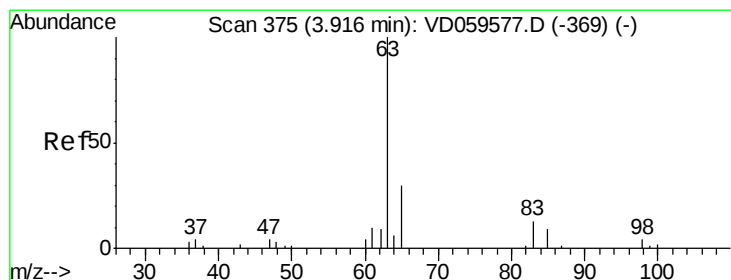
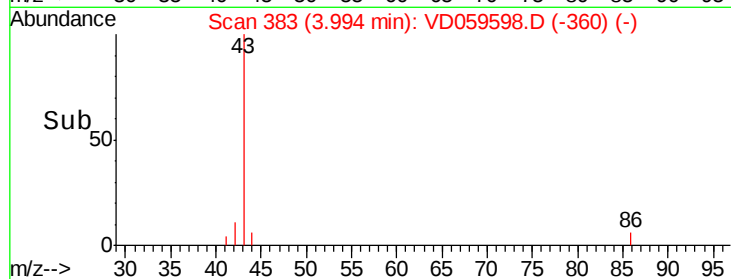


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



Time-->



#24

1,1-Dichloroethane

Concen: 54.34 ug/l

RT: 3.95 min Scan# 378

Delta R.T. 0.03 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

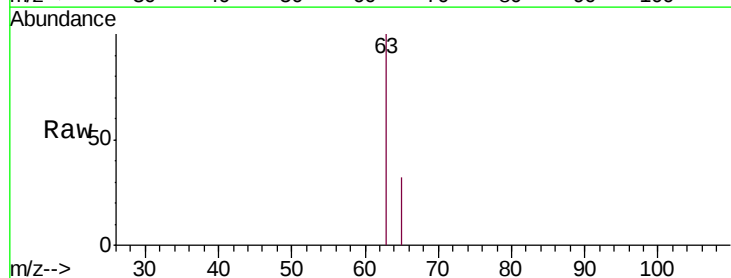
Tgt Ion: 63 Resp: 4602

Ion Ratio Lower Upper

63 100

98 0.0 1.8 5.5#

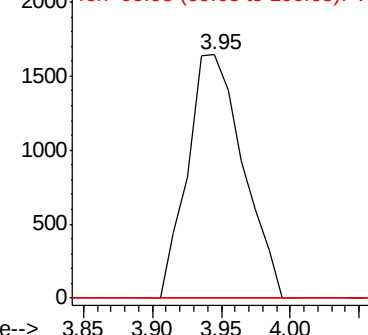
100 0.0 1.1 3.3#



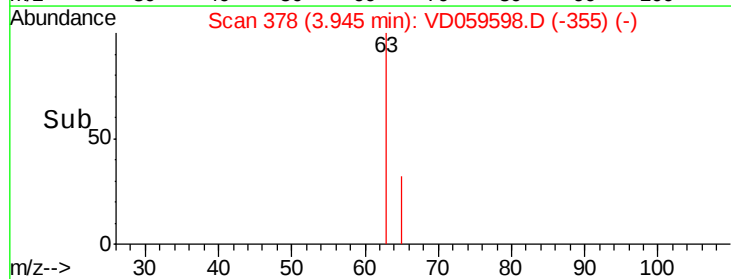
Abundance Ion 62.95 (62.65 to 63.65): VDC

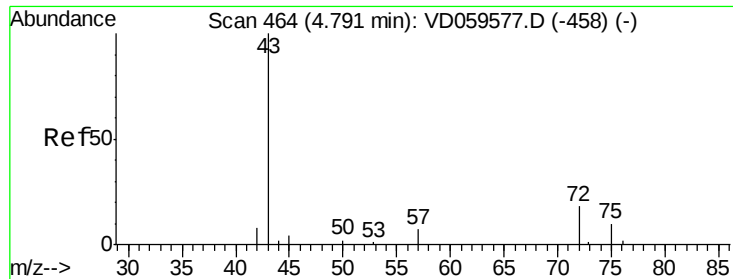
Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC



Time-->





#25

2-Butanone

Concen: 1541.44 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

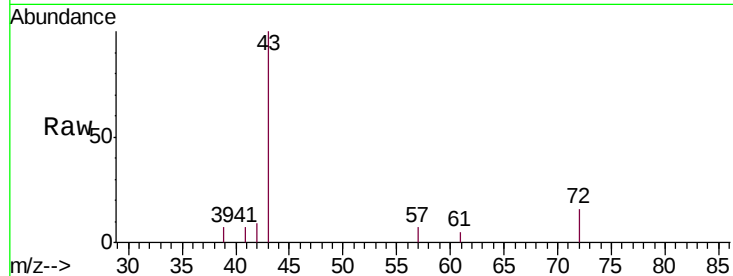
KY030LC006-S-180716MS

Tot Ion: 43 Resp: 22158

Ion Ratio Lower Upper

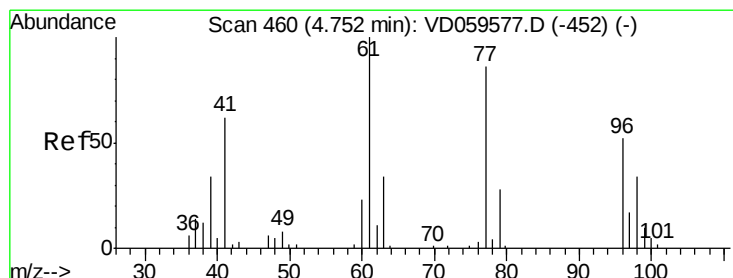
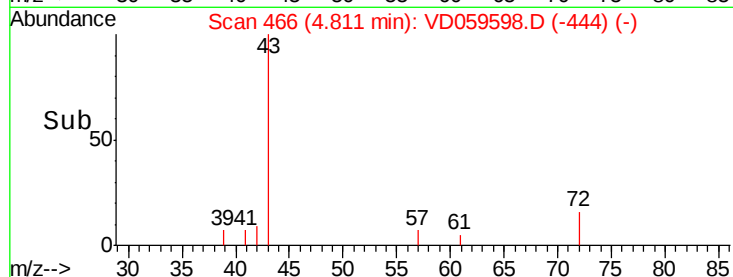
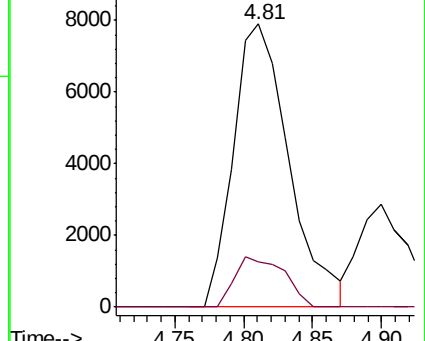
43 100

72 16.2 14.7 22.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 45.21 ug/l

RT: 4.77 min Scan# 462

Delta R.T. 0.02 min

Lab File: VD059598.D

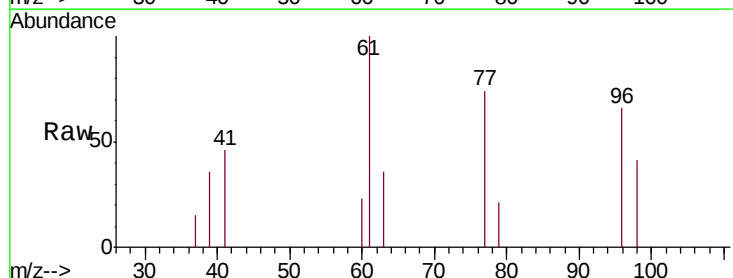
Acq: 25 Jul 2018 19:28

Tgt Ion: 77 Resp: 3921

Ion Ratio Lower Upper

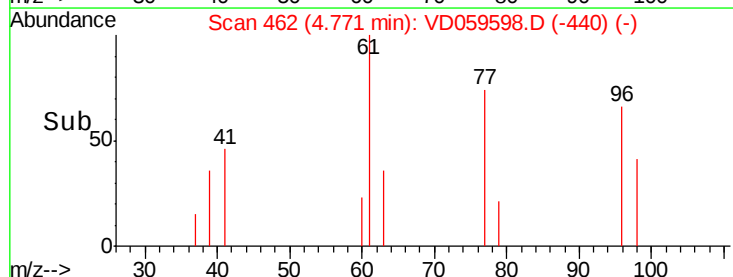
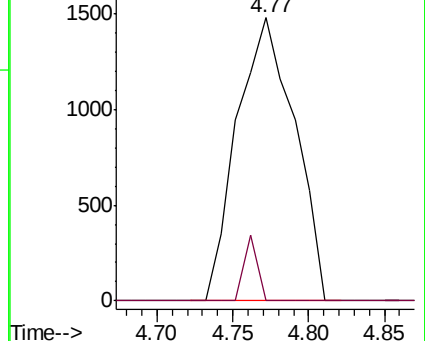
77 100

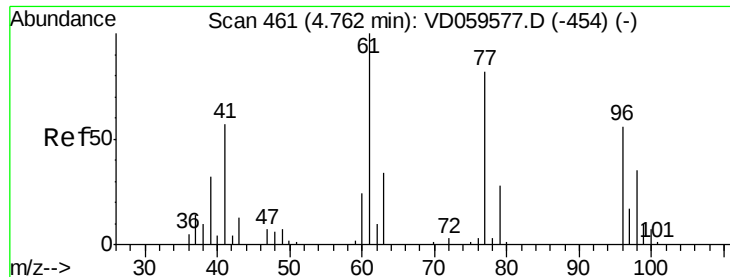
97 0.0 9.7 29.1#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



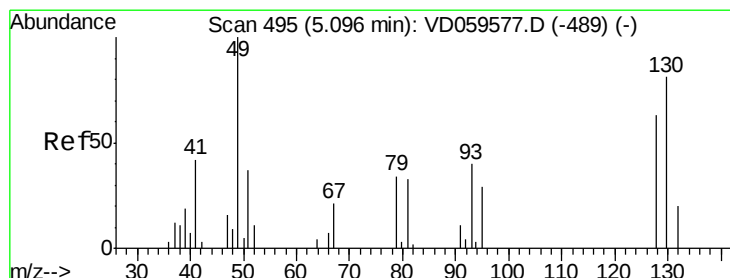
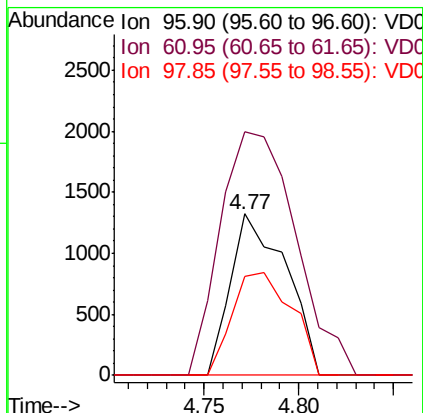
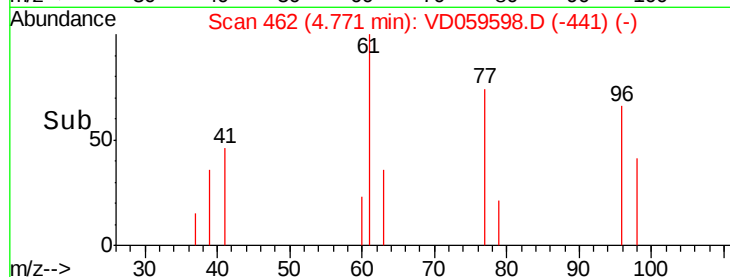
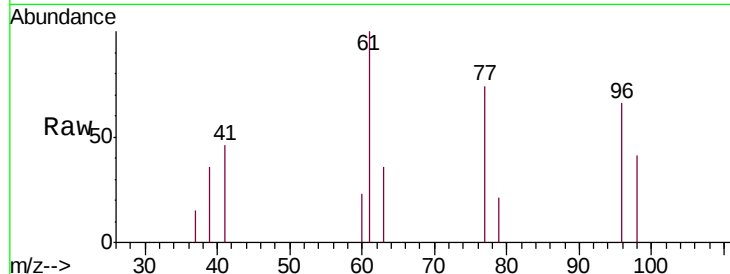


#27

cis-1,2-Dichloroethene
Concen: 59.27 ug/l
RT: 4.77 min Scan# 462
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

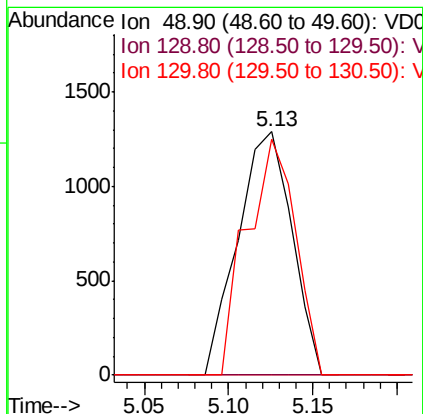
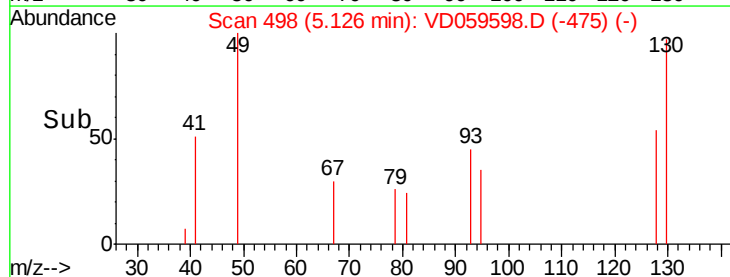
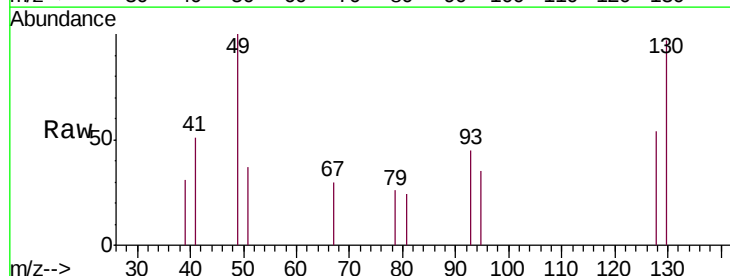
Tot Ion: 96 Resp: 2686
Ion Ratio Lower Upper
96 100
61 150.8 0.0 355.0
98 61.5 0.0 125.8

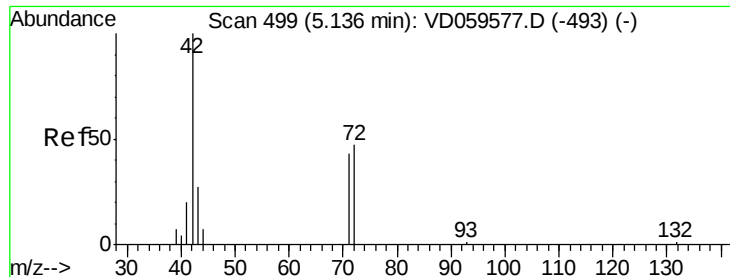


#28

Bromochloromethane
Concen: 85.55 ug/l
RT: 5.13 min Scan# 498
Delta R.T. 0.03 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 49 Resp: 2867
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.0
130 97.1 64.6 96.8#





#29

Tetrahydrofuran

Concen: 1228.53 ug/l

RT: 5.16 min Scan# 501

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

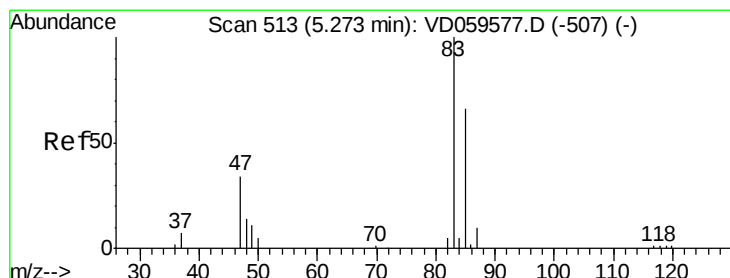
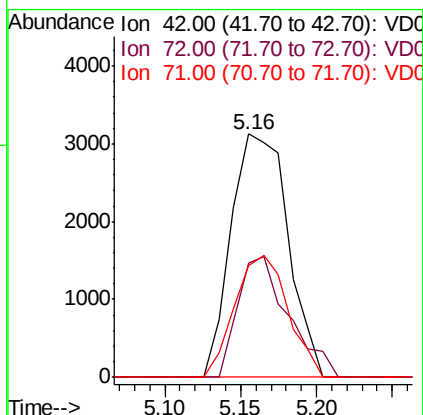
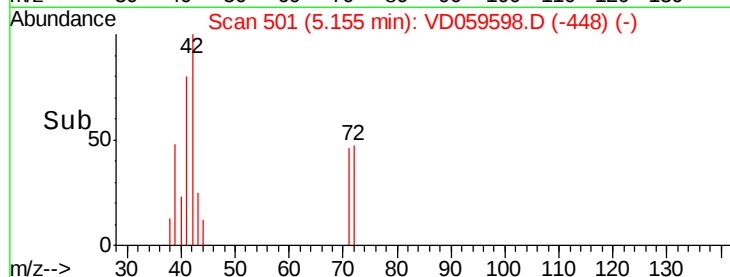
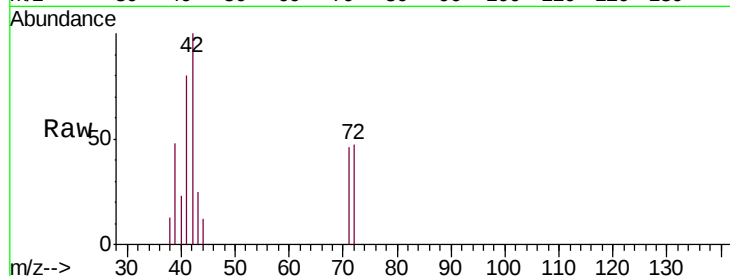
Tot Ion: 42 Resp: 8177

Ion Ratio Lower Upper

42 100

72 44.0 35.0 52.4

71 46.9 34.2 51.2



#30

Chloroform

Concen: 69.36 ug/l

RT: 5.30 min Scan# 516

Delta R.T. 0.03 min

Lab File: VD059598.D

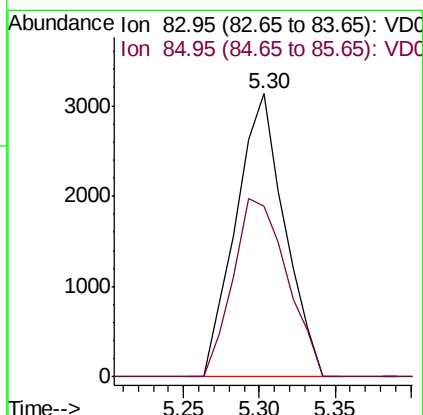
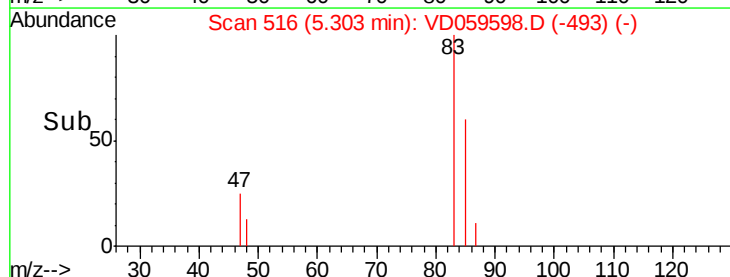
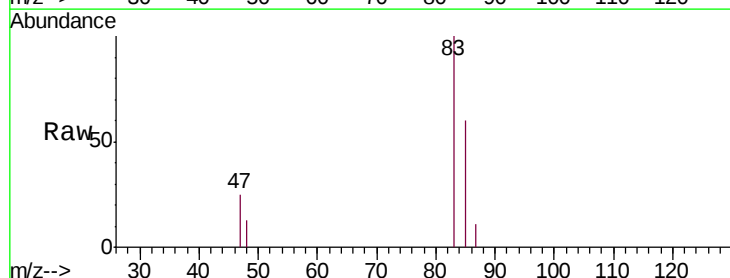
Acq: 25 Jul 2018 19:28

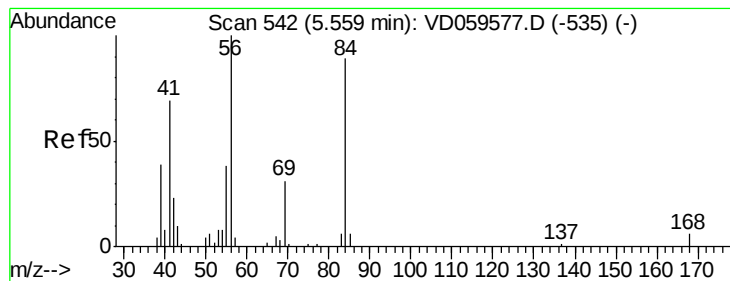
Tgt Ion: 83 Resp: 7026

Ion Ratio Lower Upper

83 100

85 60.2 53.0 79.6





#31

Cyclohexane

Concen: 29.37 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

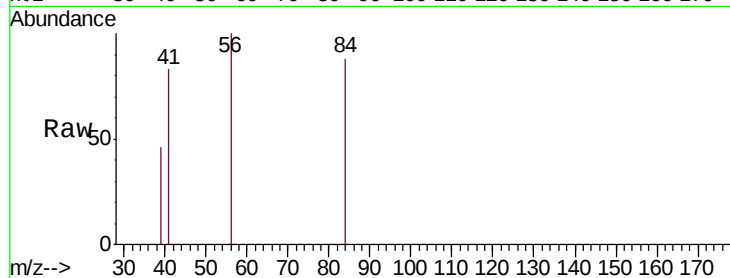
Tot Ion: 56 Resp: 1721

Ion Ratio Lower Upper

56 100

69 0.0 24.6 37.0#

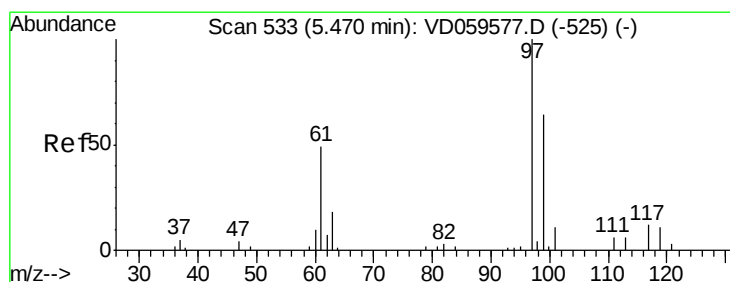
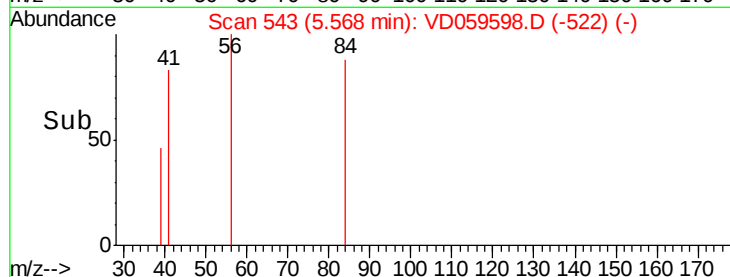
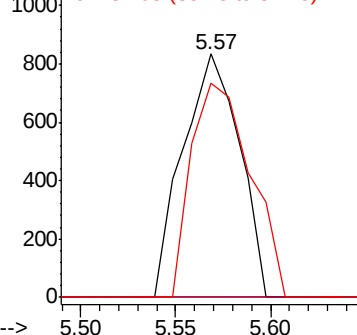
84 87.9 72.7 109.1



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: 52.52 ug/l

RT: 5.49 min Scan# 535

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

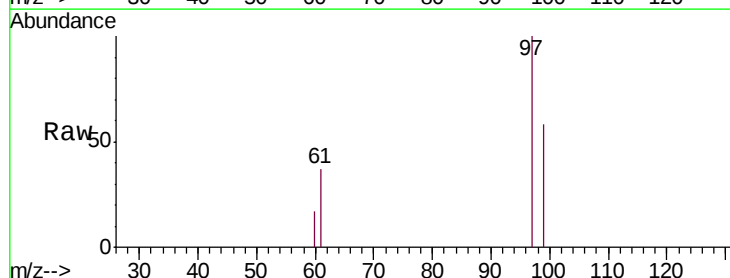
Tgt Ion: 97 Resp: 5151

Ion Ratio Lower Upper

97 100

99 57.6 50.9 76.3

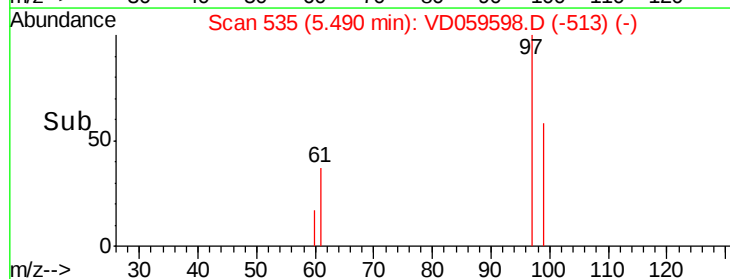
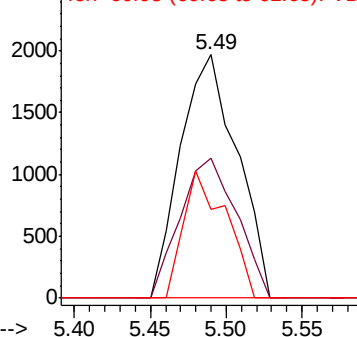
61 36.6 39.2 58.8#

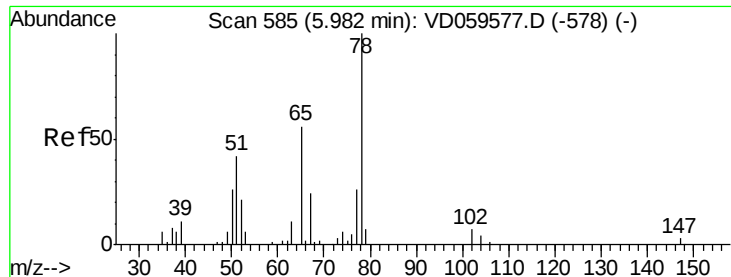


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 52.52 ug/l

RT: 5.99 min Scan# 586

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

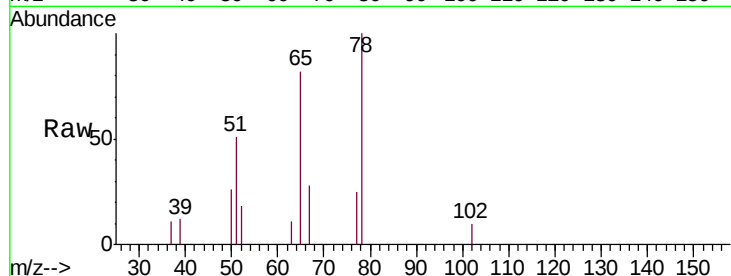
KY030LC006-S-180716MS

Tot Ion: 65 Resp: 6957

Ion Ratio Lower Upper

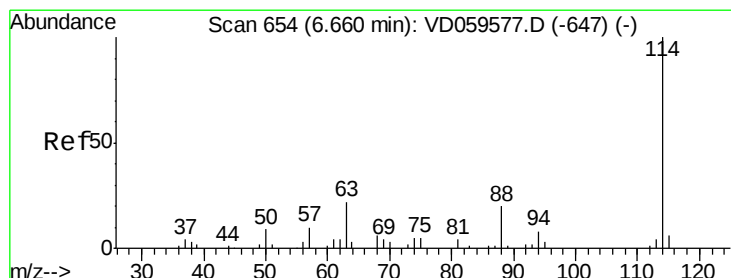
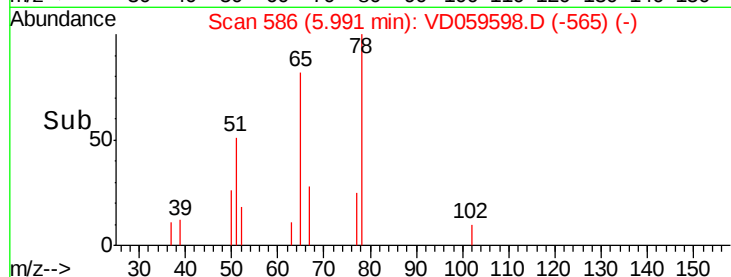
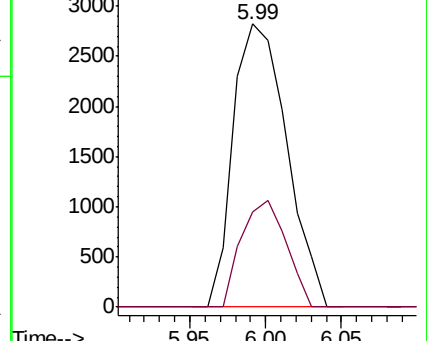
65 100

67 33.7 0.0 86.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.67 min Scan# 655

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

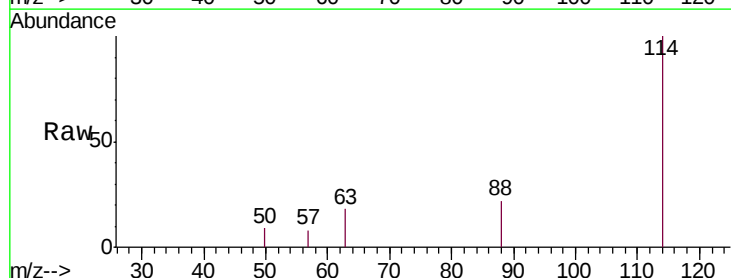
Tgt Ion: 114 Resp: 8374

Ion Ratio Lower Upper

114 100

63 17.9 0.0 43.8

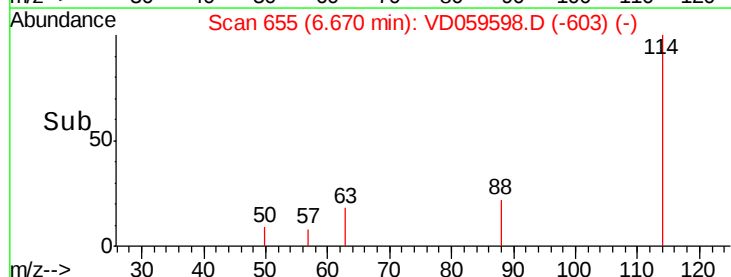
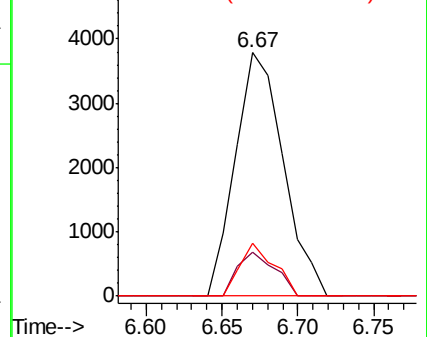
88 21.6 0.0 39.0

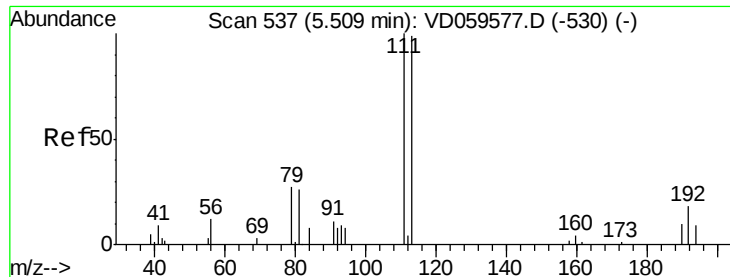


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.52 min Scan# 538

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

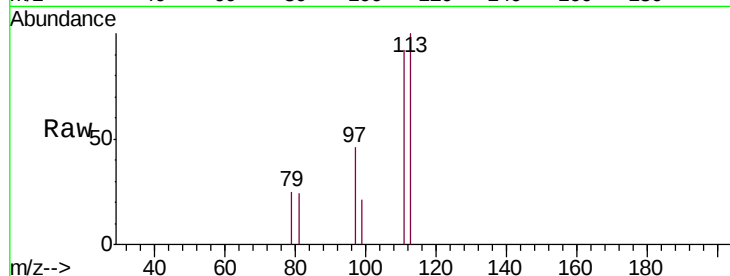
Tot Ion:113 Resp: 3821

Ion Ratio Lower Upper

113 100

111 92.3 80.5 120.7

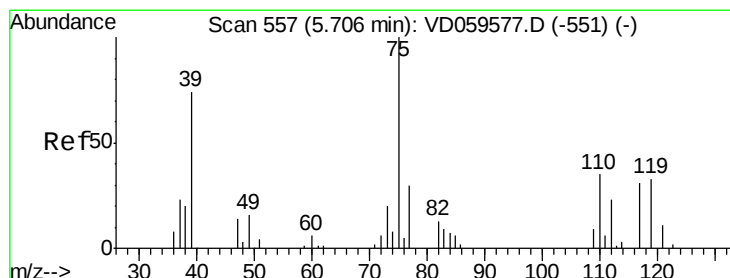
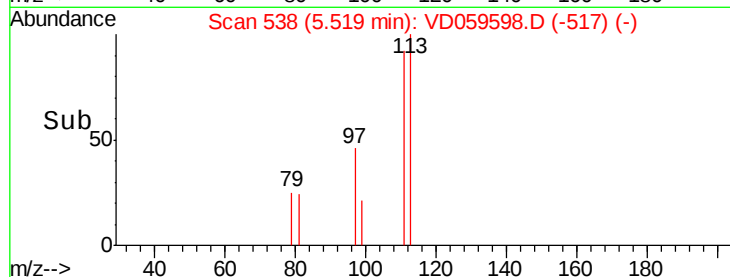
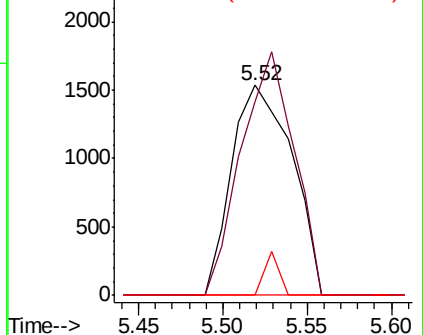
192 0.0 14.5 21.7#



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: 35.68 ug/l

RT: 5.73 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

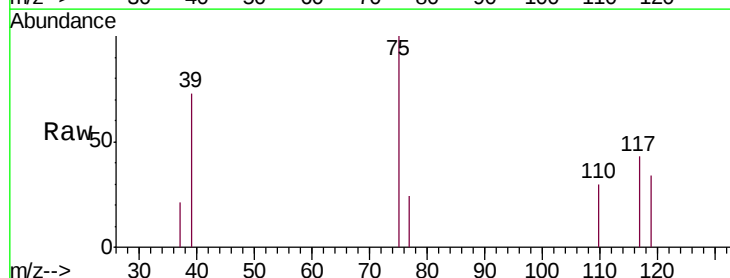
Tgt Ion: 75 Resp: 2998

Ion Ratio Lower Upper

75 100

110 30.1 17.0 50.9

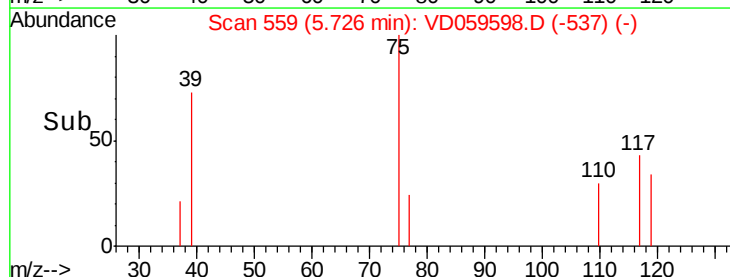
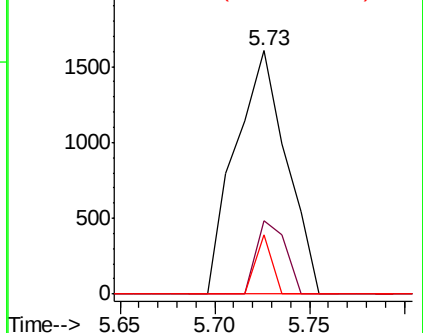
77 24.4 23.6 35.4

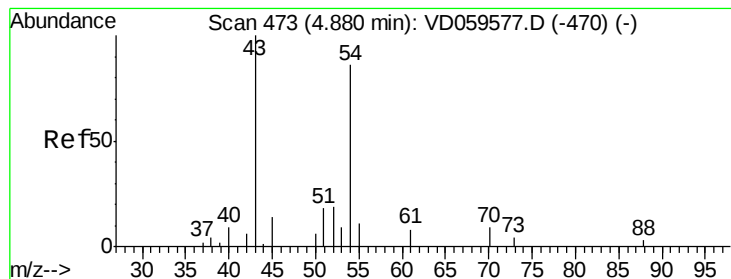


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 168.54 ug/l

RT: 4.90 min Scan# 475

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

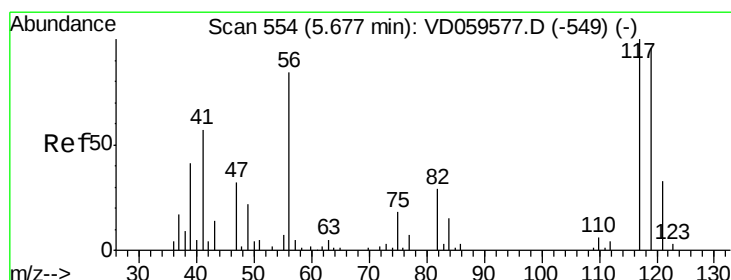
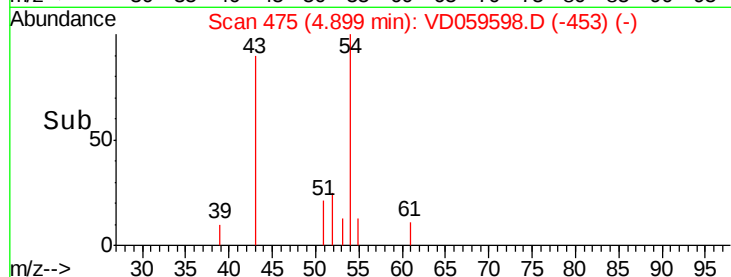
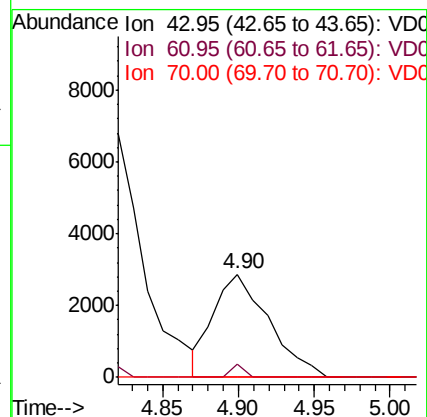
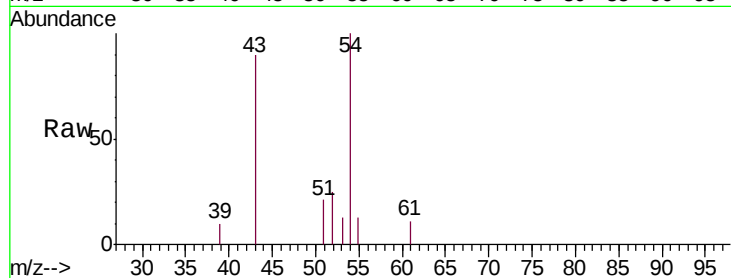
Tot Ion: 43 Resp: 7285

Ion Ratio Lower Upper

43 100

61 12.5 10.7 16.1

70 0.0 5.4 8.0#



#38

Carbon Tetrachloride

Concen: 31.38 ug/l

RT: 5.70 min Scan# 556

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

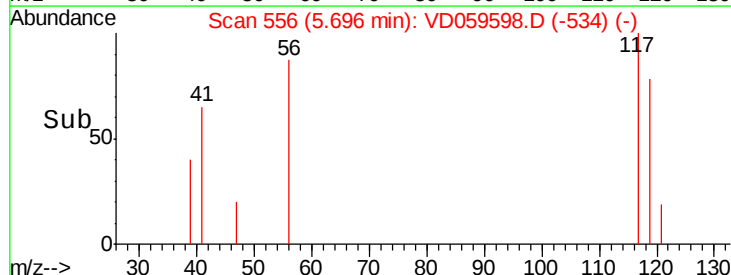
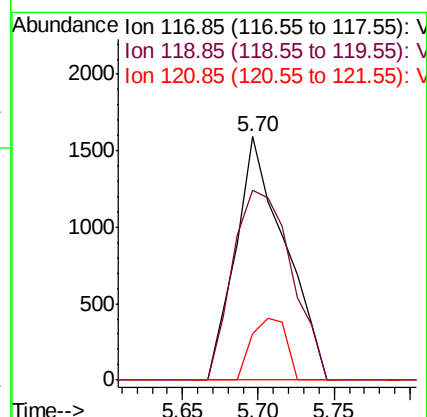
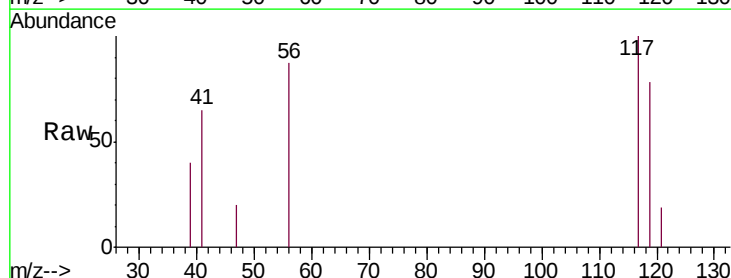
Tgt Ion: 117 Resp: 3611

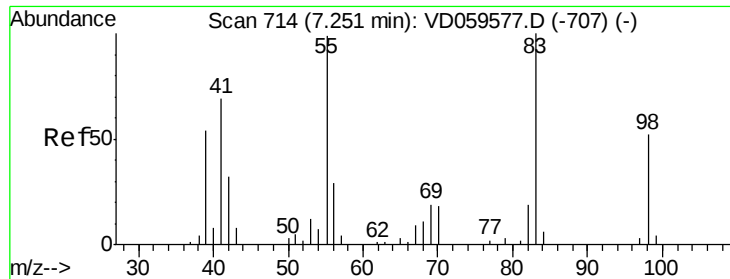
Ion Ratio Lower Upper

117 100

119 77.8 73.6 110.4

121 18.9 25.0 37.6#

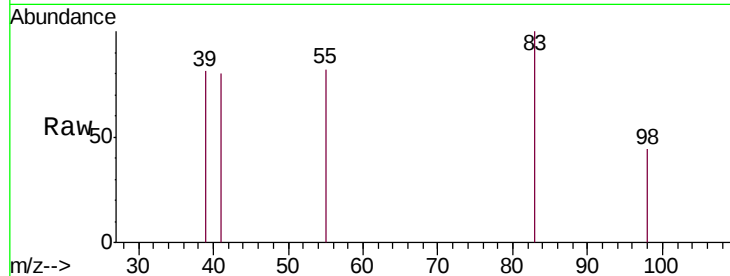




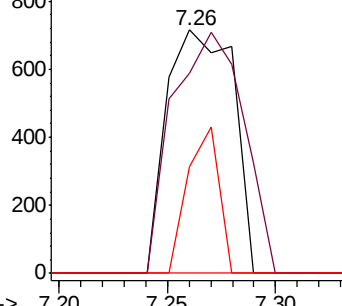
#39
Methylcyclohexane
Concen: 19.94 ug/l
RT: 7.26 min Scan# 715
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

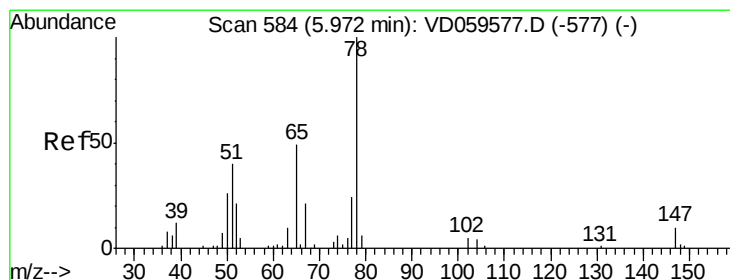
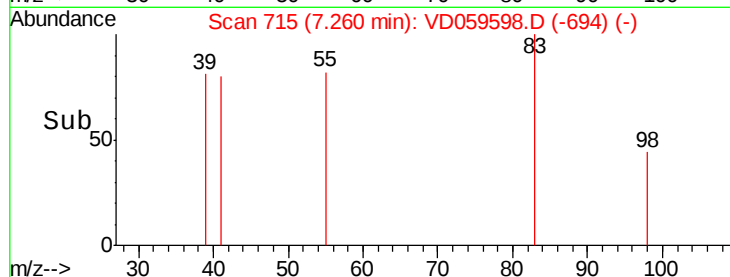
Tot Ion: 83 Resp: 1541
Ion Ratio Lower Upper
83 100
55 82.3 79.4 119.0
98 44.0 41.6 62.4



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

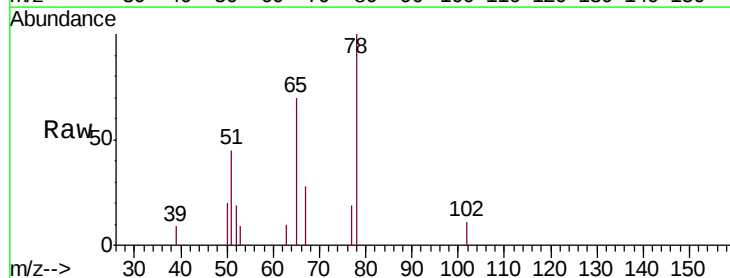


Time--> 7.20 7.25 7.30

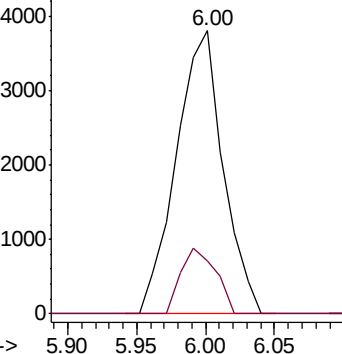


#40
Benzene
Concen: 52.18 ug/l
RT: 6.00 min Scan# 587
Delta R.T. 0.03 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

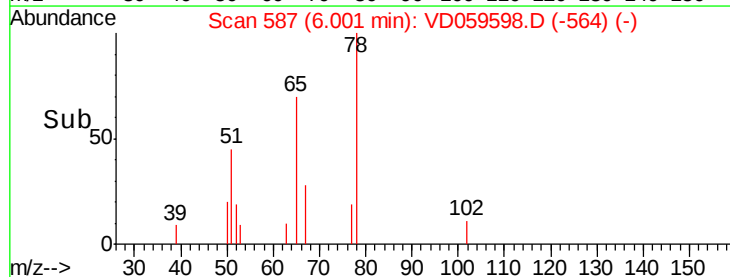
Tgt Ion: 78 Resp: 8992
Ion Ratio Lower Upper
78 100
77 18.7 19.0 28.6#

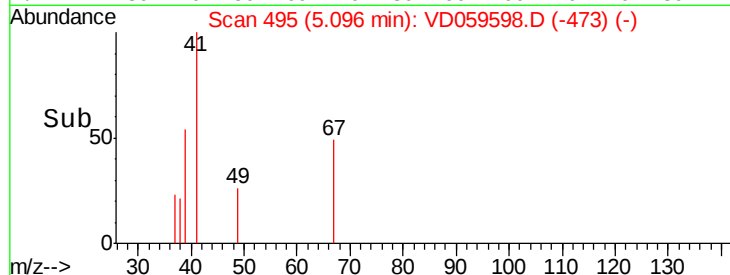
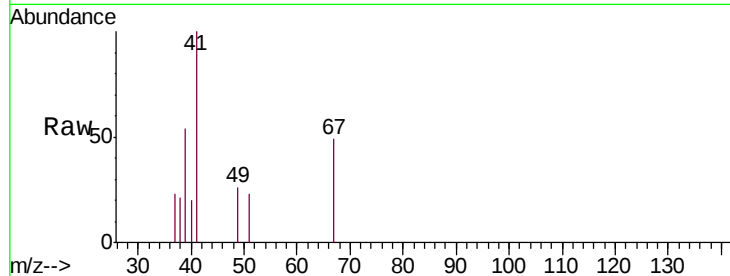
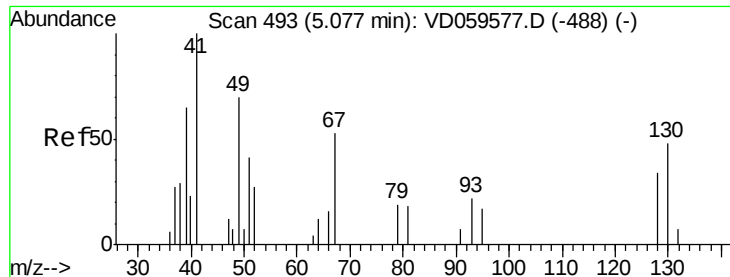


Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC



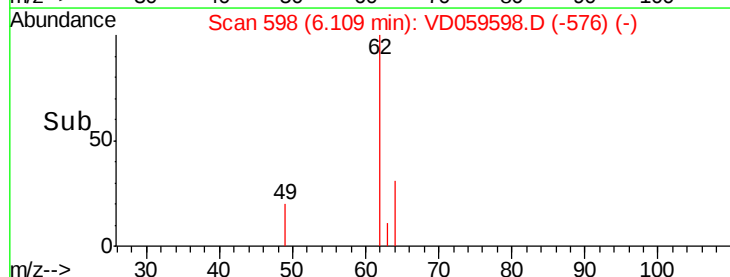
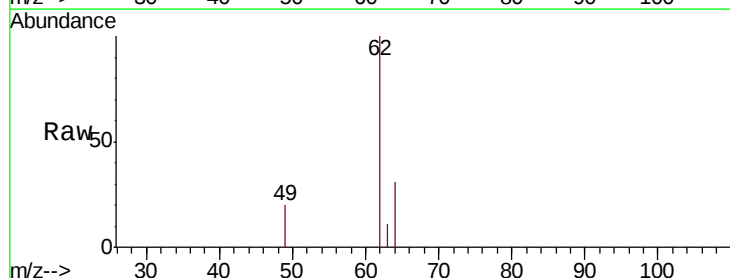
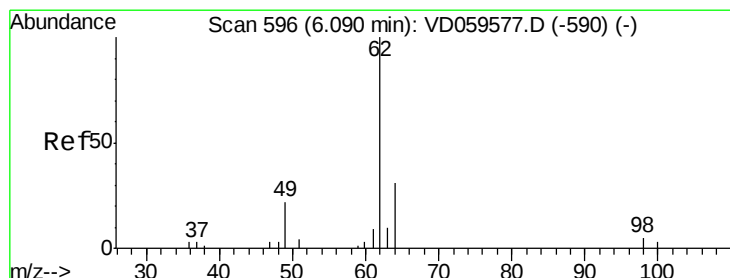
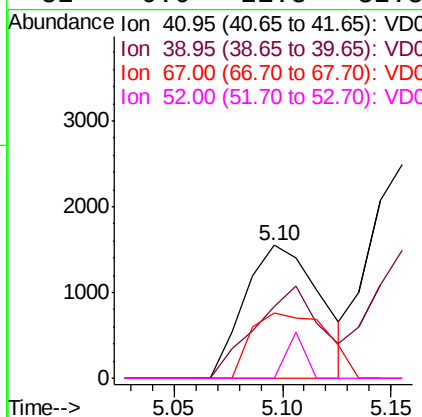
Time--> 5.90 5.95 6.00 6.05





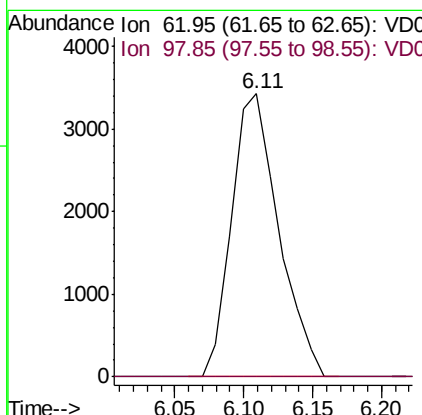
#41
Methacrylonitrile
Concen: 173.98 ug/l
RT: 5.10 min Scan# 495
Delta R.T. 0.02 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

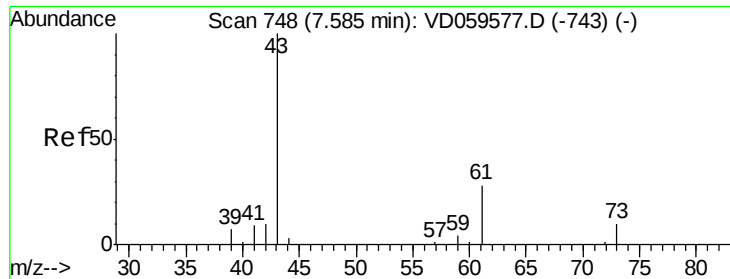
Tot Ion: 41 Resp: 3753
Ion Ratio Lower Upper
41 100
39 54.1 52.1 78.1
67 49.1 42.5 63.7
52 0.0 21.8 32.8#



#42
1,2-Dichloroethane
Concen: 78.30 ug/l
RT: 6.11 min Scan# 598
Delta R.T. 0.02 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 62 Resp: 8129
Ion Ratio Lower Upper
62 100
98 0.0 0.0 10.2

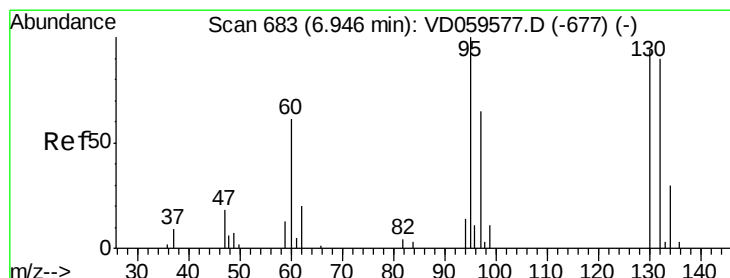
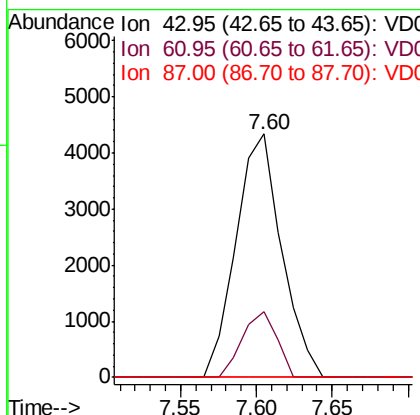
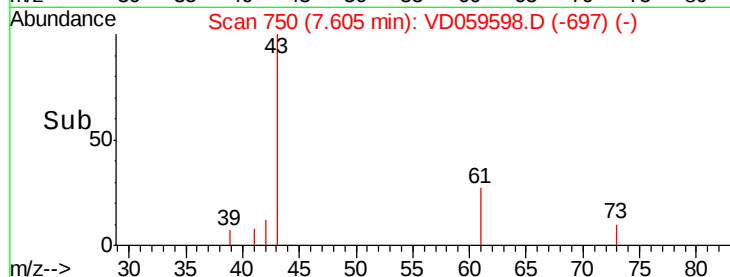
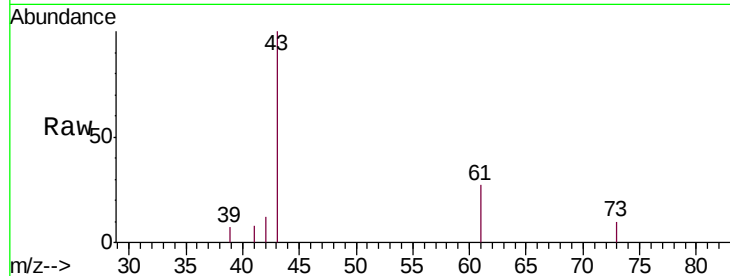




#43
Isopropyl Acetate
Concen: 151.85 ug/l
RT: 7.60 min Scan# 750
Delta R.T. 0.02 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

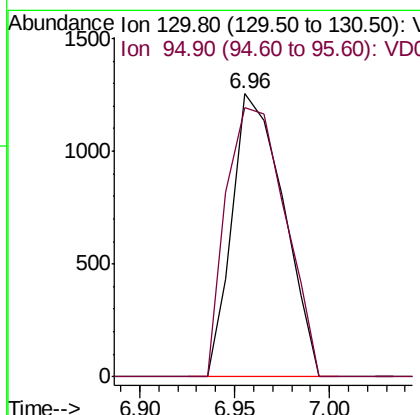
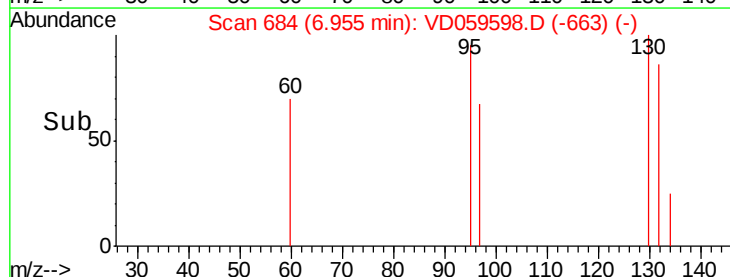
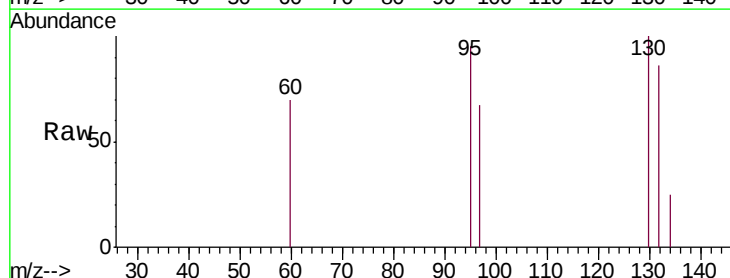
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

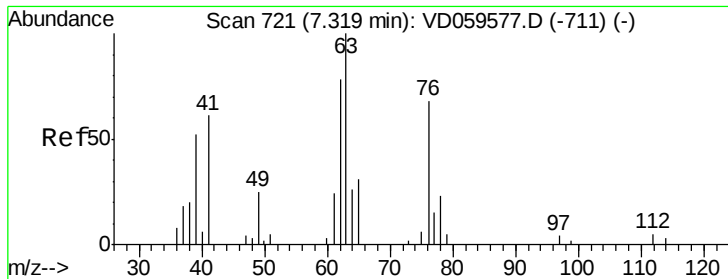
Tot Ion: 43 Resp: 9102
Ion Ratio Lower Upper
43 100
61 26.8 22.0 33.0
87 0.0 0.0 0.0



#44
Trichloroethene
Concen: 37.70 ug/l
RT: 6.96 min Scan# 684
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion:130 Resp: 2356
Ion Ratio Lower Upper
130 100
95 95.0 0.0 213.2





#45

1,2-Dichloropropane

Concen: 51.52 ug/l

RT: 7.33 min Scan# 722

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

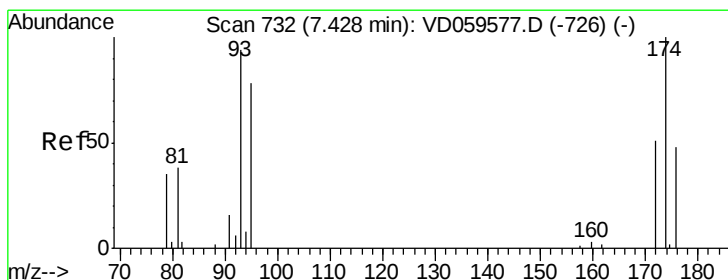
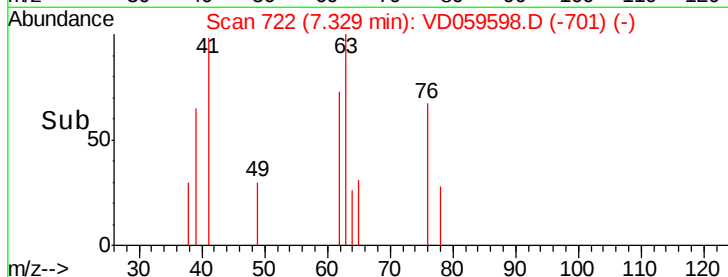
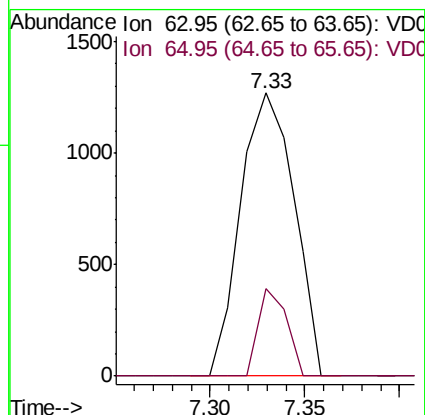
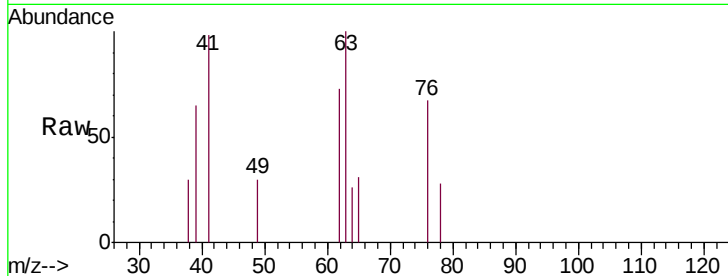
KY030LC006-S-180716MS

Tot Ion: 63 Resp: 2486

Ion Ratio Lower Upper

63 100

65 30.9 24.9 37.3



#46

Dibromomethane

Concen: 82.82 ug/l

RT: 7.45 min Scan# 734

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

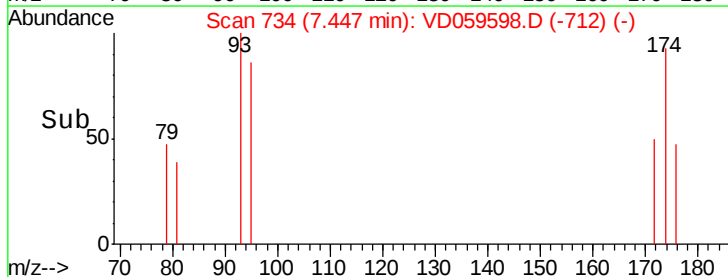
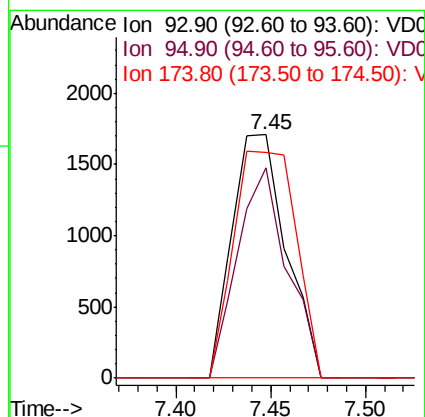
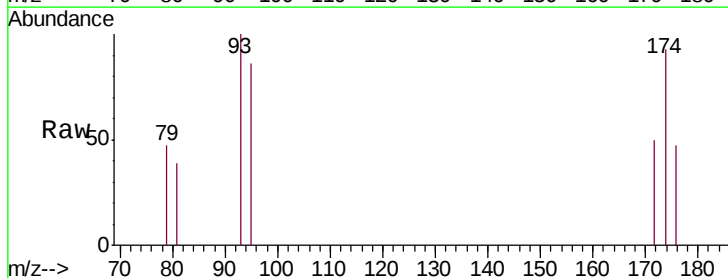
Tgt Ion: 93 Resp: 3378

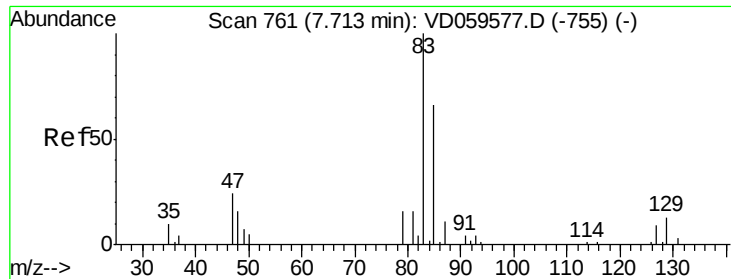
Ion Ratio Lower Upper

93 100

95 86.4 65.8 98.8

174 92.7 84.7 127.1





#47

Bromodichloromethane

Concen: 60.99 ug/l

RT: 7.73 min Scan# 763

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

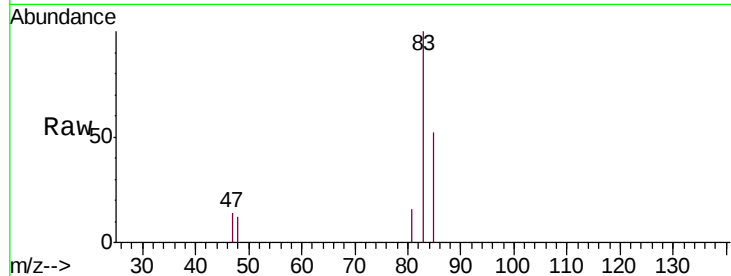
Tot Ion: 83 Resp: 5942

Ion Ratio Lower Upper

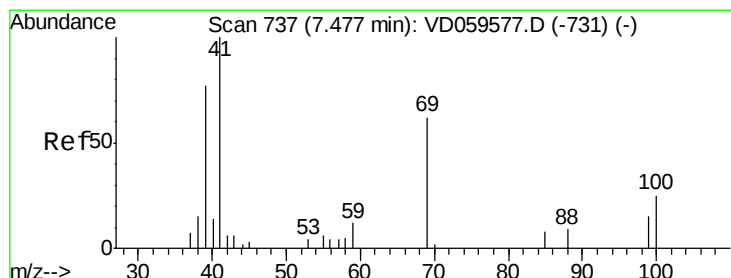
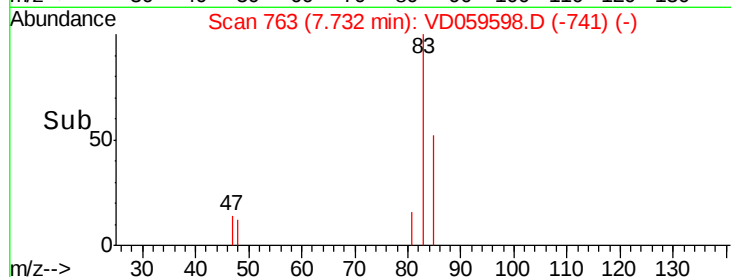
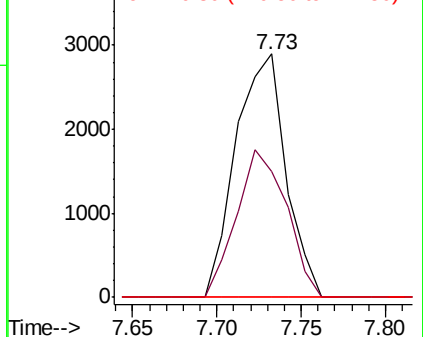
83 100

85 51.8 53.1 79.7#

127 0.0 7.4 11.0#



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 139.92 ug/l

RT: 7.50 min Scan# 739

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

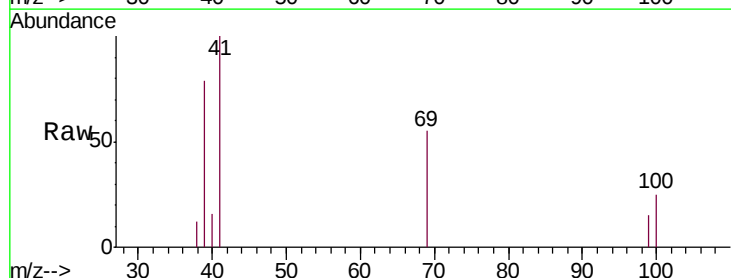
Tgt Ion: 41 Resp: 5562

Ion Ratio Lower Upper

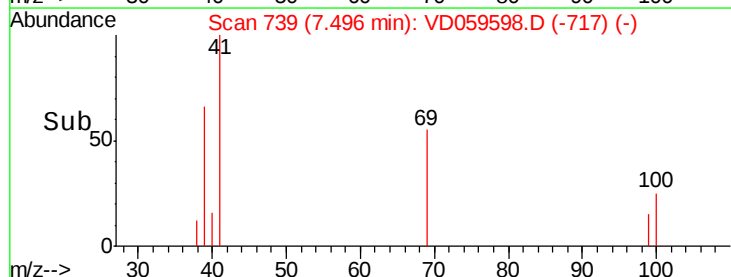
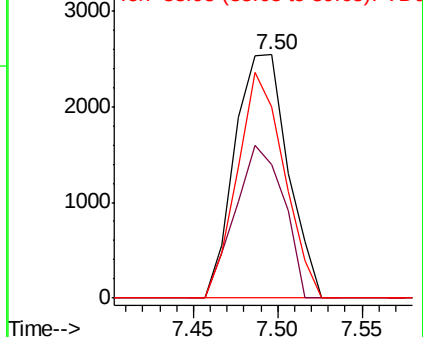
41 100

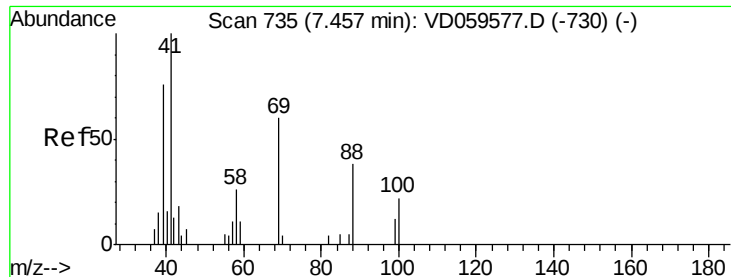
69 54.6 49.4 74.0

39 78.5 61.3 91.9



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 4108.69 ug/l

RT: 7.47 min Scan# 736

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

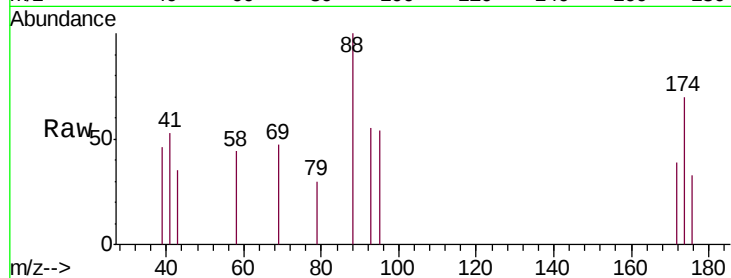
Tot Ion: 88 Resp: 1554

Ion Ratio Lower Upper

88 100

43 35.5 37.4 56.2#

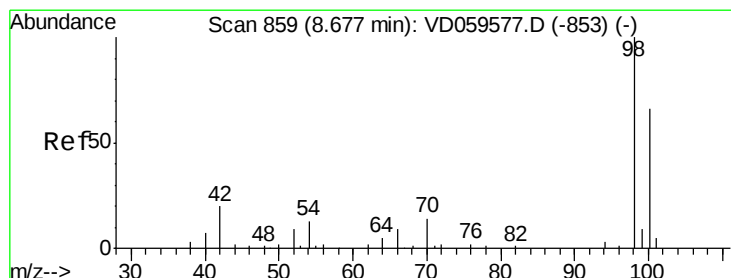
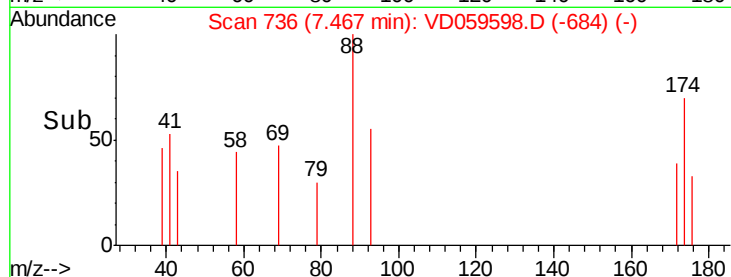
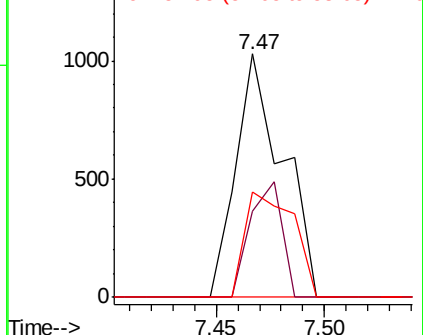
58 43.5 55.6 83.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 4108.69 ug/l

RT: 8.70 min Scan# 861

Delta R.T. 0.02 min

Lab File: VD059598.D

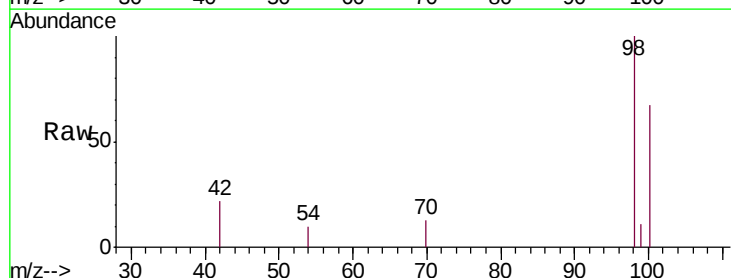
Acq: 25 Jul 2018 19:28

Tgt Ion: 98 Resp: 7799

Ion Ratio Lower Upper

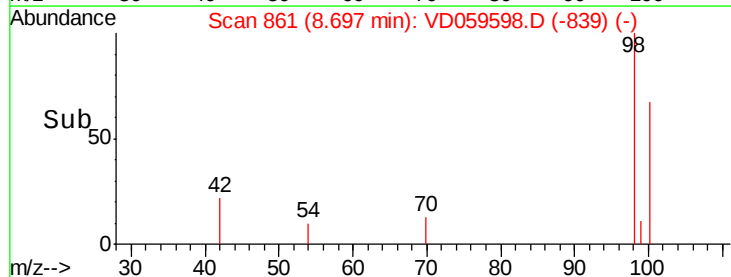
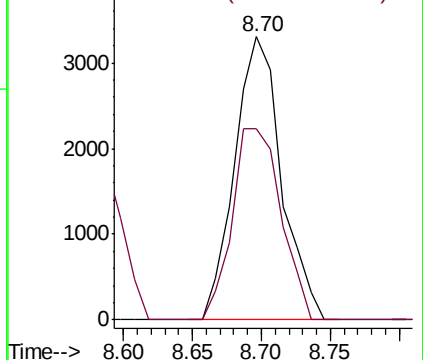
98 100

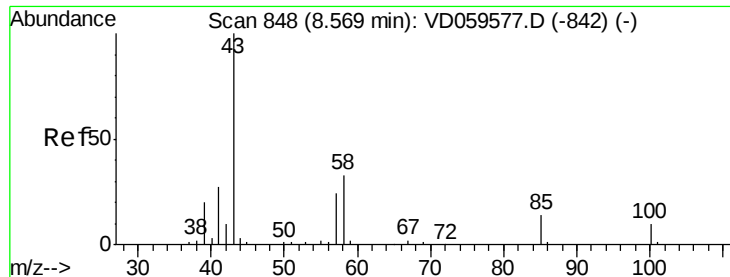
100 67.4 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 942.99 ug/l

RT: 8.58 min Scan# 849

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

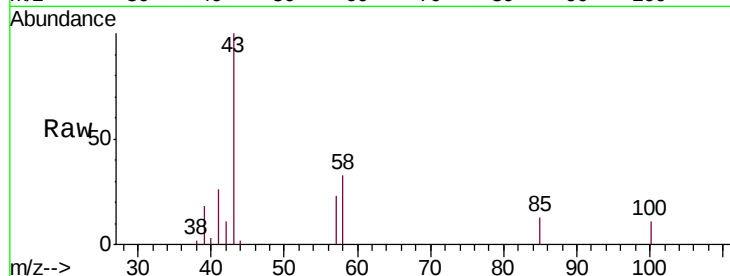
KY030LC006-S-180716MS

Tot Ion: 43 Resp: 37744

Ion Ratio Lower Upper

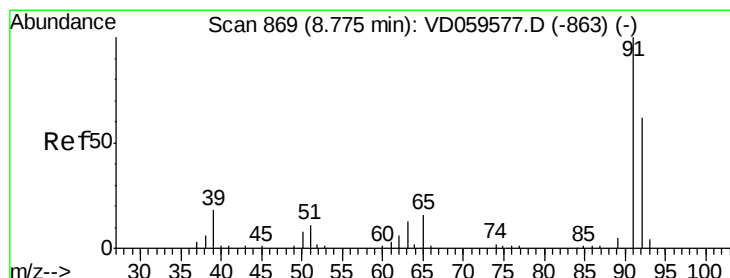
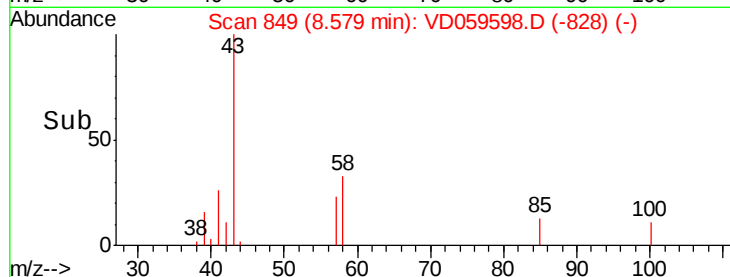
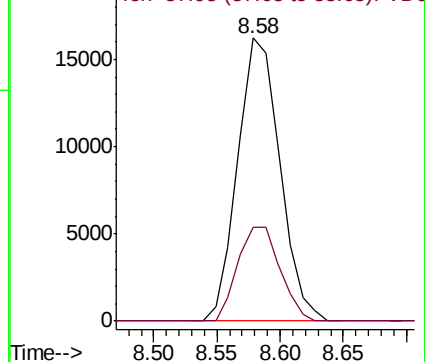
43 100

58 33.1 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 49.50 ug/l

RT: 8.79 min Scan# 871

Delta R.T. 0.02 min

Lab File: VD059598.D

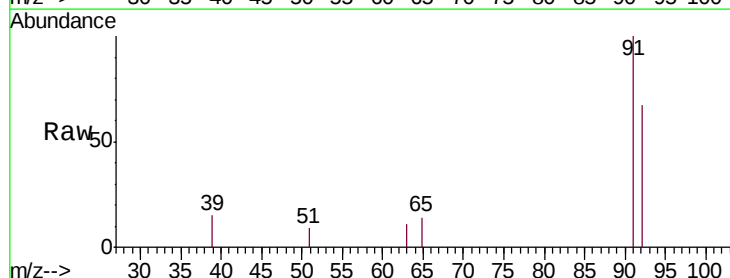
Acq: 25 Jul 2018 19:28

Tgt Ion: 92 Resp: 5656

Ion Ratio Lower Upper

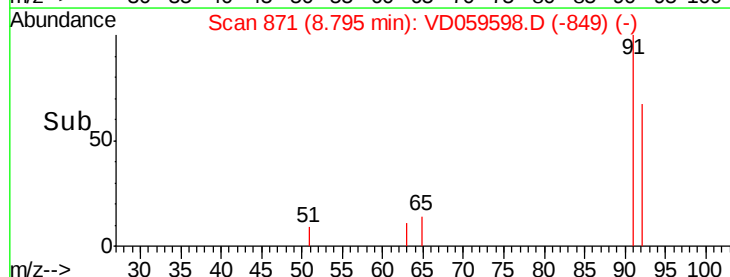
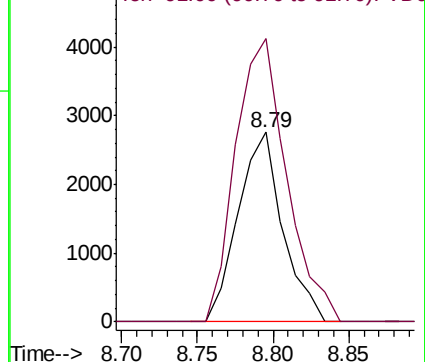
92 100

91 149.2 129.4 194.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 66.68 ug/l

RT: 9.17 min Scan# 909

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

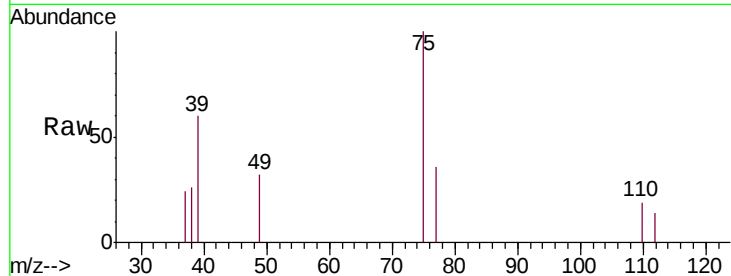
KY030LC006-S-180716MS

Tot Ion: 75 Resp: 5859

Ion Ratio Lower Upper

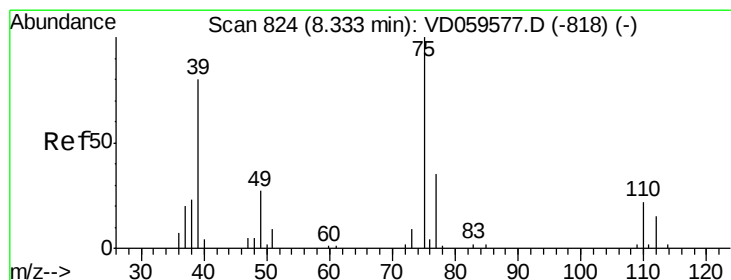
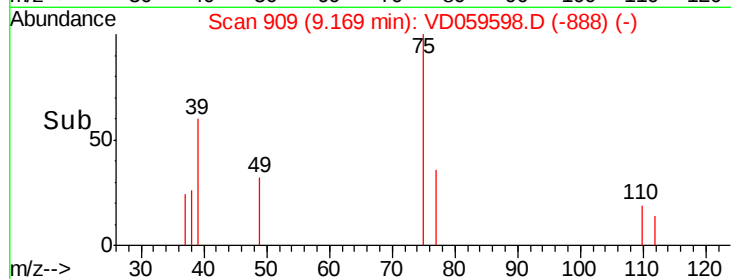
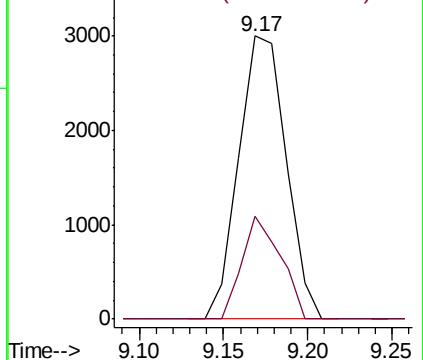
75 100

77 36.2 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 58.36 ug/l

RT: 8.34 min Scan# 825

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

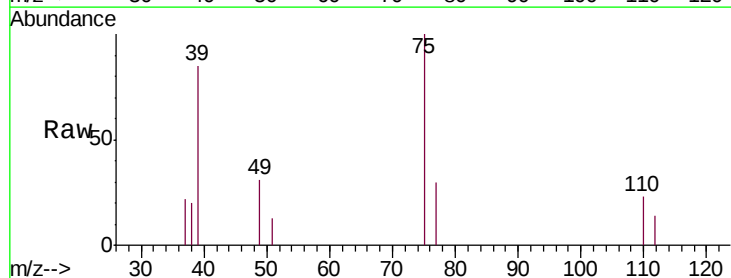
Tgt Ion: 75 Resp: 5092

Ion Ratio Lower Upper

75 100

77 30.4 27.7 41.5

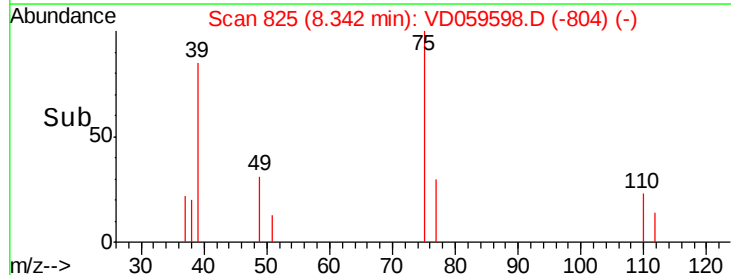
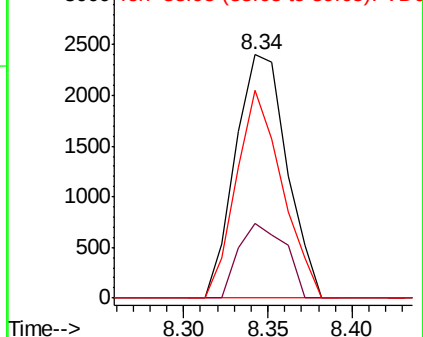
39 85.4 63.8 95.8

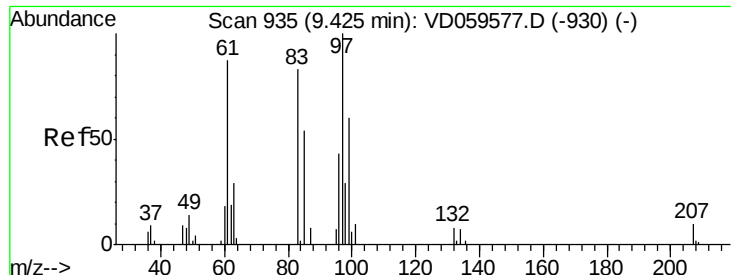


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 80.48 ug/l

RT: 9.43 min Scan# 936

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

Tot Ion: 97 Resp: 3455

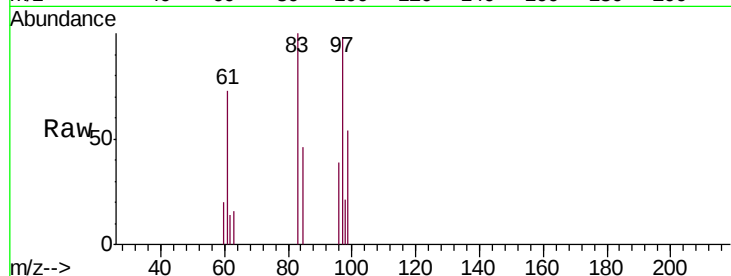
Ion Ratio Lower Upper

97 100

83 102.2 66.3 99.5#

85 46.9 43.0 64.6

99 55.3 47.7 71.5

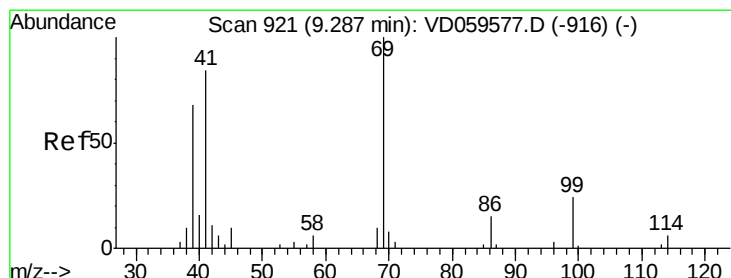
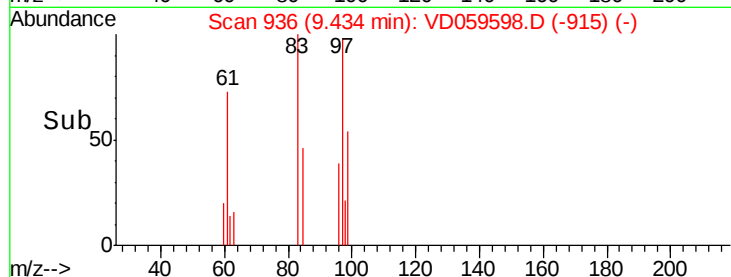
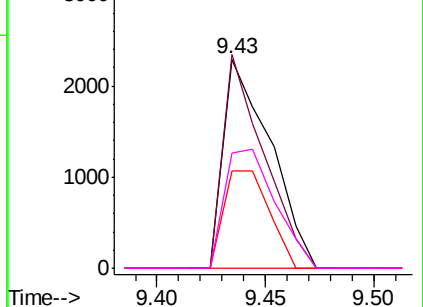


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 101.76 ug/l

RT: 9.30 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

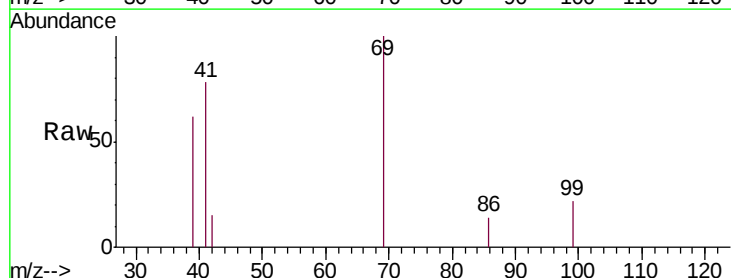
Tgt Ion: 69 Resp: 4956

Ion Ratio Lower Upper

69 100

41 78.0 66.8 100.2

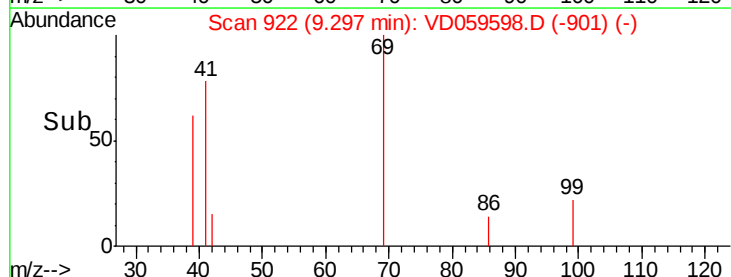
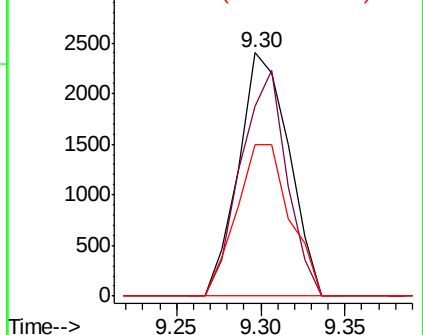
39 62.1 54.7 82.1

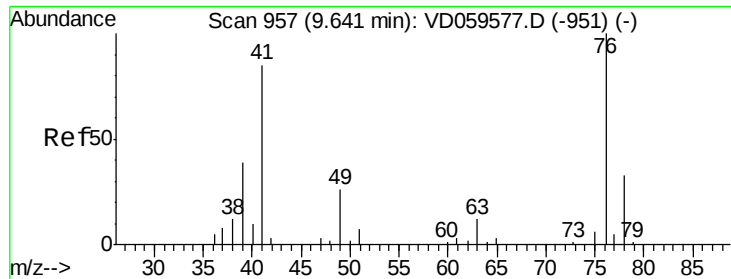


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 95.16 ug/l

RT: 9.65 min Scan# 958

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

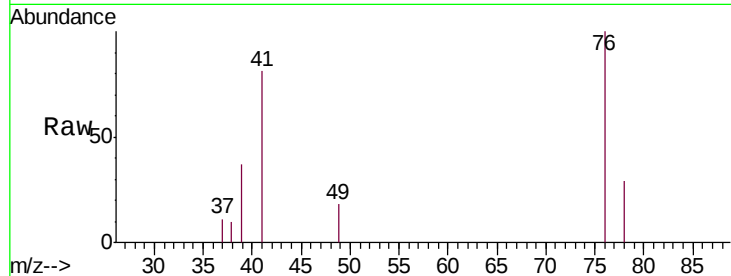
KY030LC006-S-180716MS

Tot Ion: 76 Resp: 6491

Ion Ratio Lower Upper

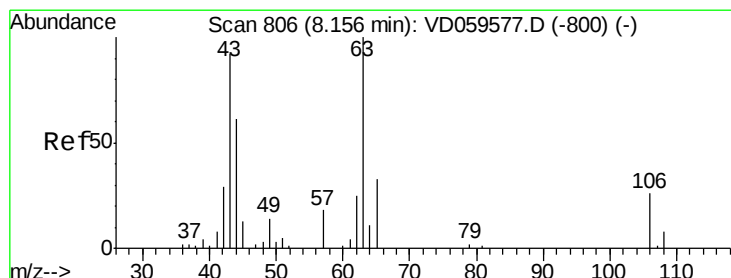
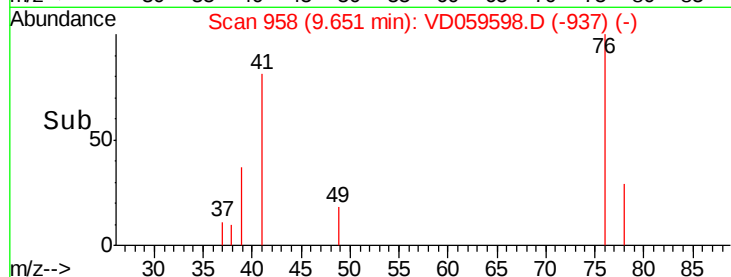
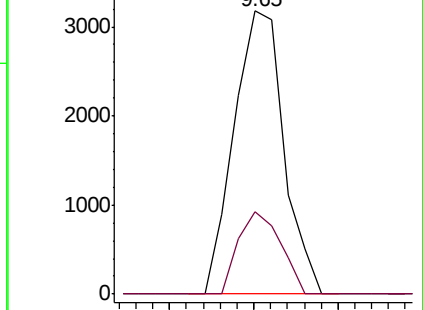
76 100

78 28.9 26.0 39.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 664.24 ug/l

RT: 8.18 min Scan# 808

Delta R.T. 0.02 min

Lab File: VD059598.D

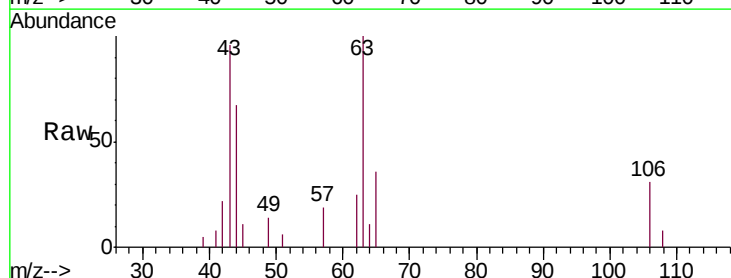
Acq: 25 Jul 2018 19:28

Tgt Ion: 63 Resp: 15201

Ion Ratio Lower Upper

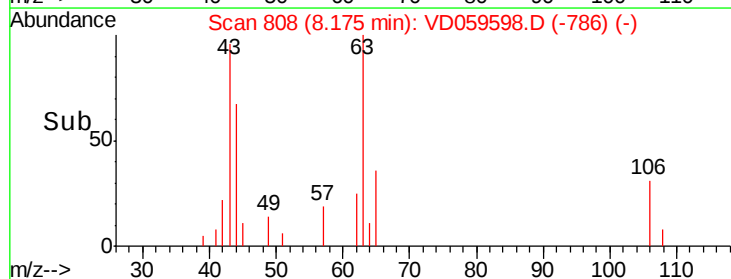
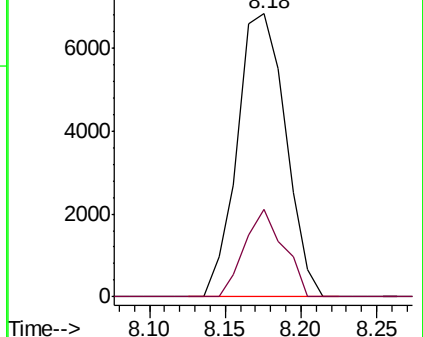
63 100

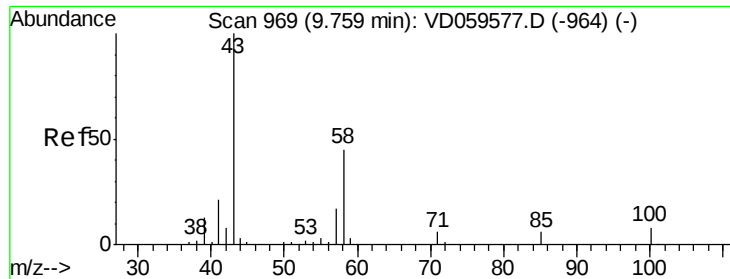
106 30.9 21.0 31.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

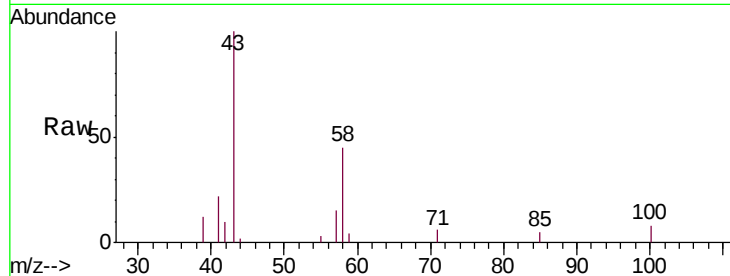




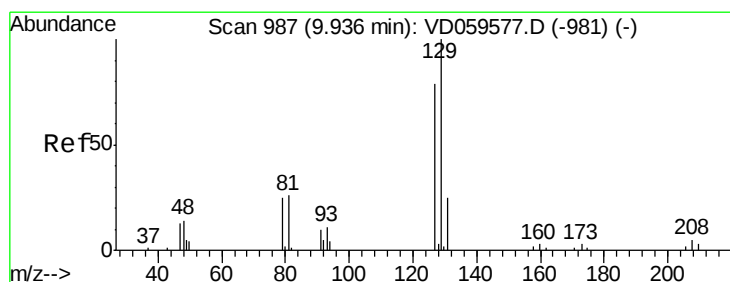
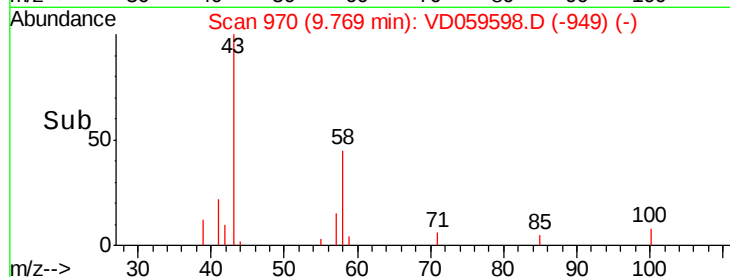
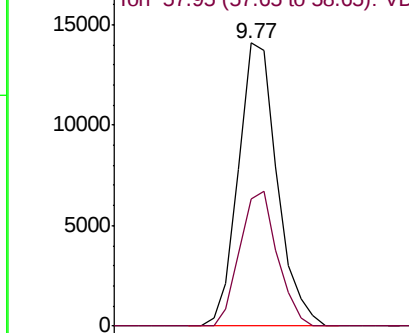
#59
2-Hexanone
Concen: 944.69 ug/l
RT: 9.77 min Scan# 970
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

Tot Ion: 43 Resp: 30034
Ion Ratio Lower Upper
43 100
58 45.1 22.7 68.1

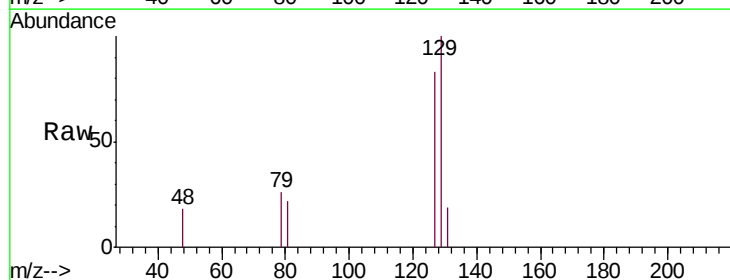


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

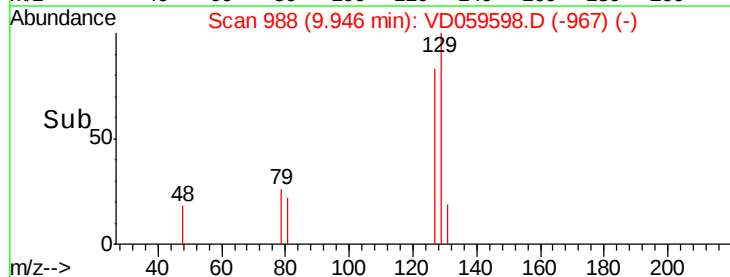
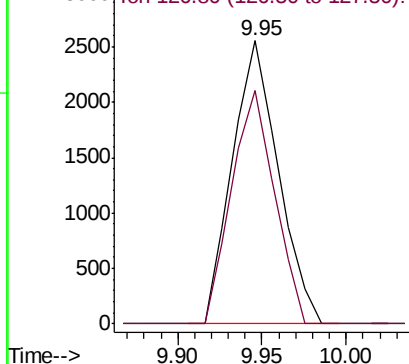


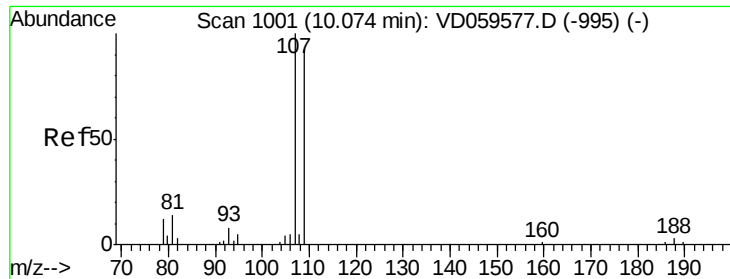
#60
Dibromochloromethane
Concen: 67.69 ug/l
RT: 9.95 min Scan# 988
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 129 Resp: 4824
Ion Ratio Lower Upper
129 100
127 82.7 39.3 117.9



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 100.43 ug/l

RT: 10.08 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

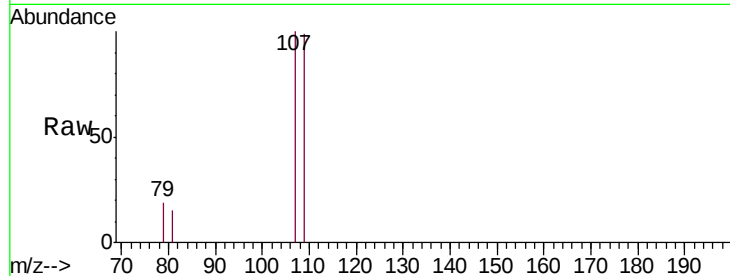
KY030LC006-S-180716MS

Tot Ion:107 Resp: 5109

Ion Ratio Lower Upper

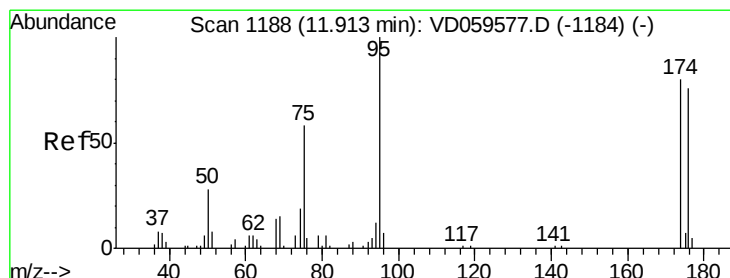
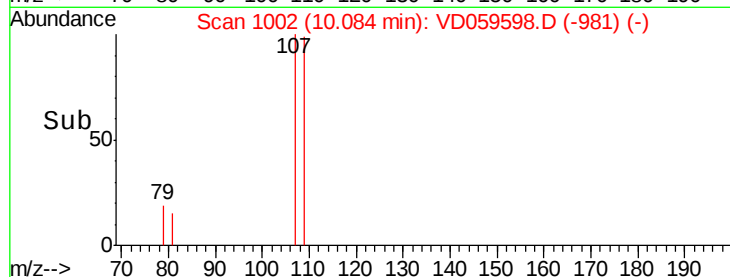
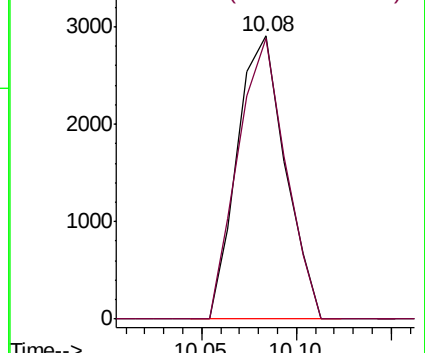
107 100

109 99.4 73.4 110.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 100.43 ug/l

RT: 11.92 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

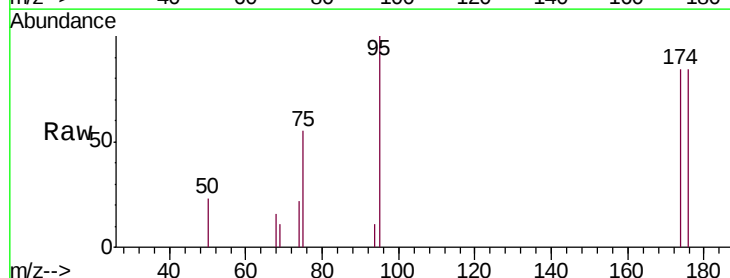
Tgt Ion: 95 Resp: 4156

Ion Ratio Lower Upper

95 100

174 83.8 0.0 160.6

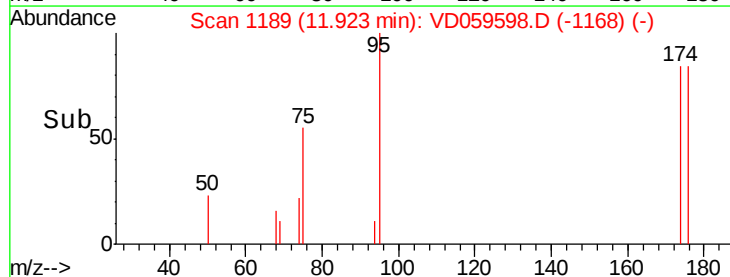
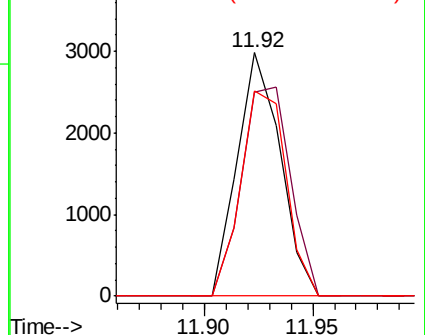
176 84.0 0.0 152.8

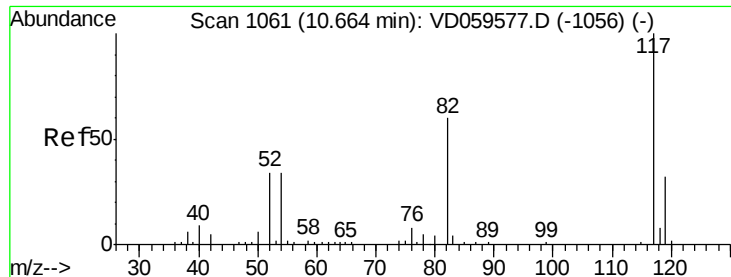


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.68 min Scan# 1063

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

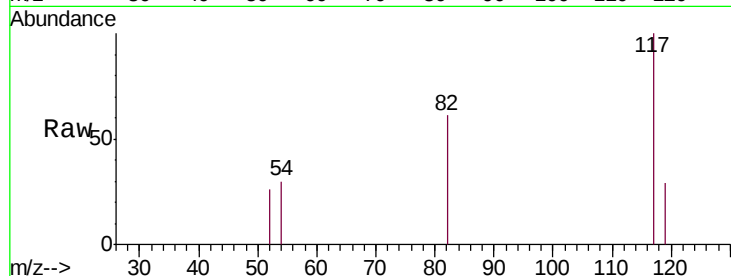
Tot Ion:117 Resp: 7602

Ion Ratio Lower Upper

117 100

82 60.5 48.2 72.2

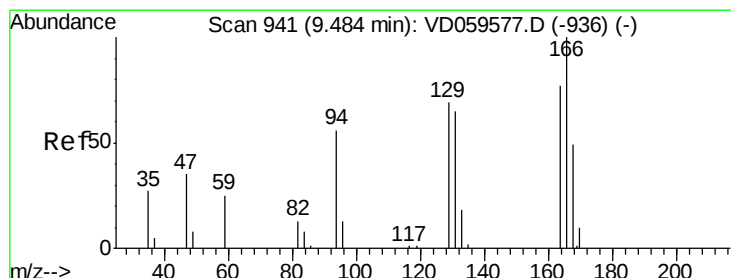
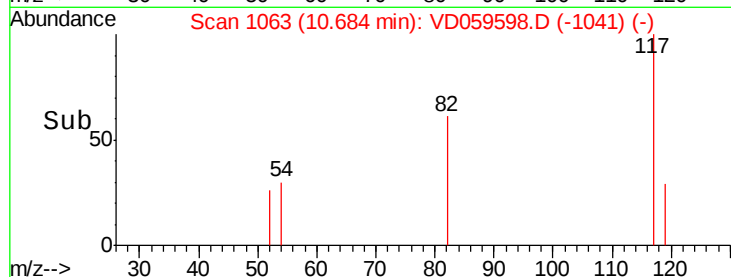
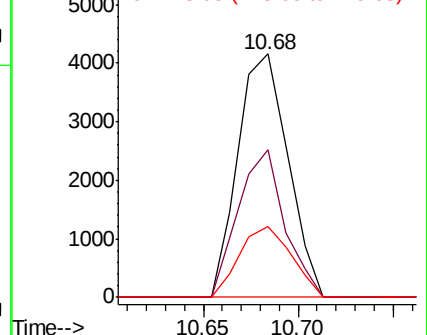
119 29.3 25.4 38.2



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



#64

Tetrachloroethene

Concen: 39.53 ug/l

RT: 9.50 min Scan# 943

Delta R.T. 0.02 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Tgt Ion:164 Resp: 2723

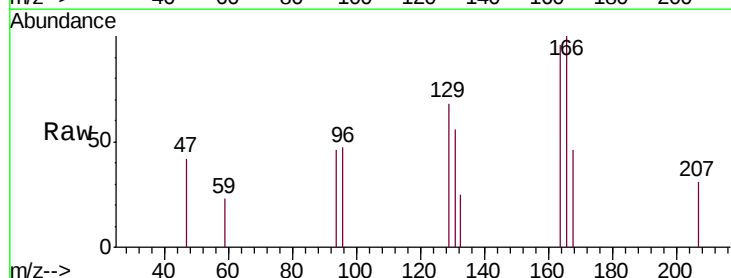
Ion Ratio Lower Upper

164 100

166 104.5 104.0 156.0

129 71.4 72.2 108.4#

131 58.4 67.7 101.5#

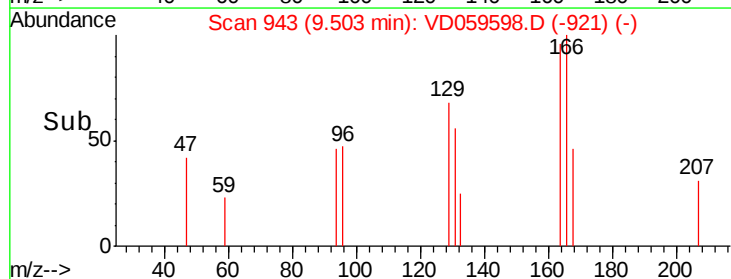
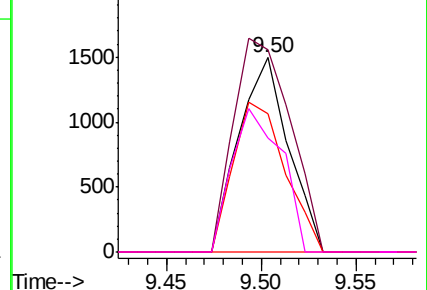


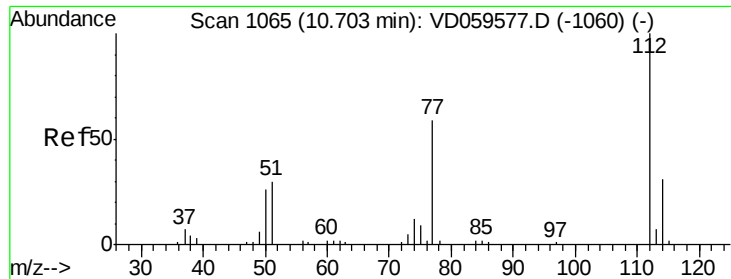
Abundance Ion 163.85 (163.55 to 164.55): V

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

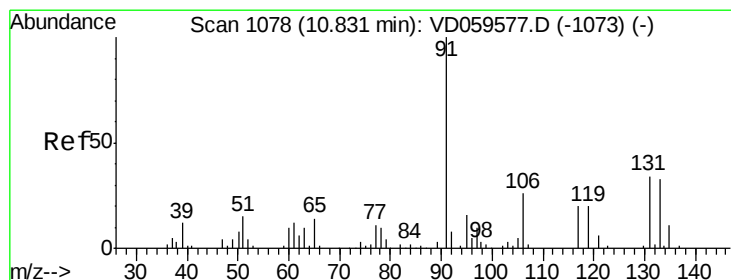
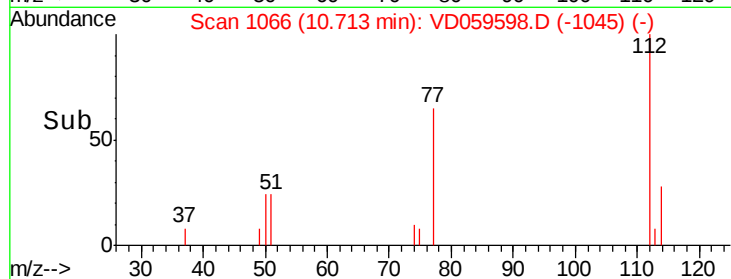
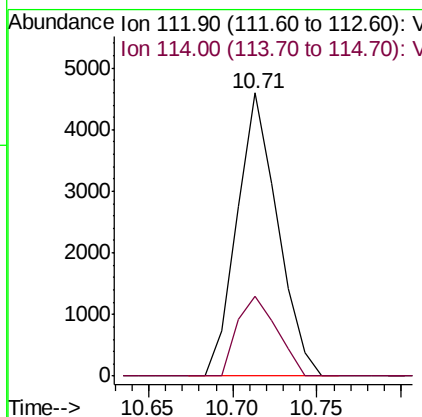
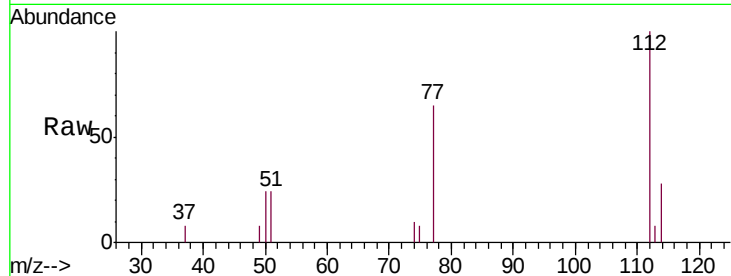




#65
Chlorobenzene
Concen: 49.31 ug/l
RT: 10.71 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

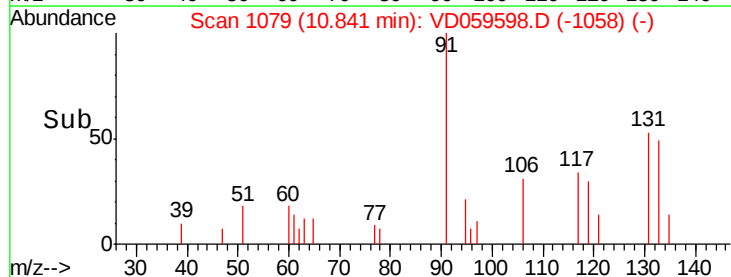
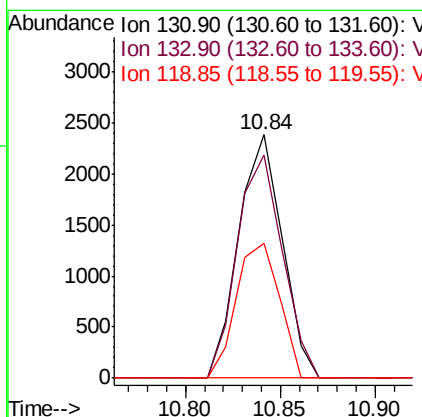
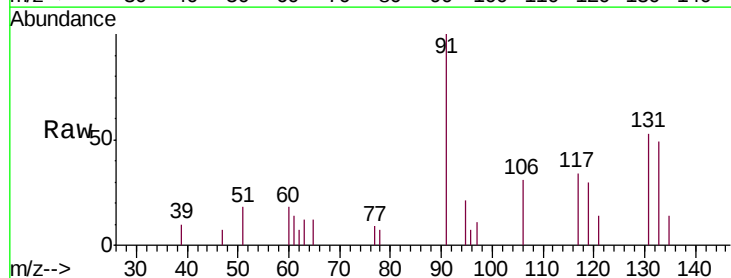
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

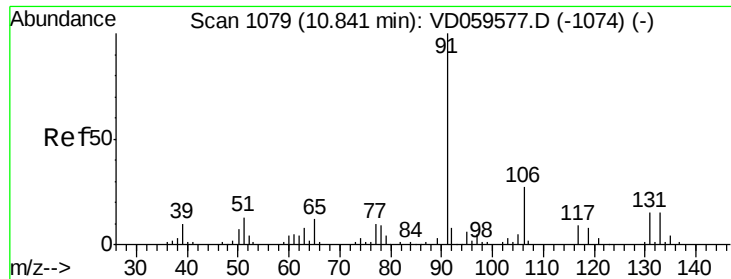
Tot Ion:112 Resp: 7685
Ion Ratio Lower Upper
112 100
114 28.0 24.5 36.7



#66
1,1,1,2-Tetrachloroethane
Concen: 56.37 ug/l
RT: 10.84 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion:131 Resp: 3821
Ion Ratio Lower Upper
131 100
133 91.5 47.9 143.7
119 55.5 28.7 86.1

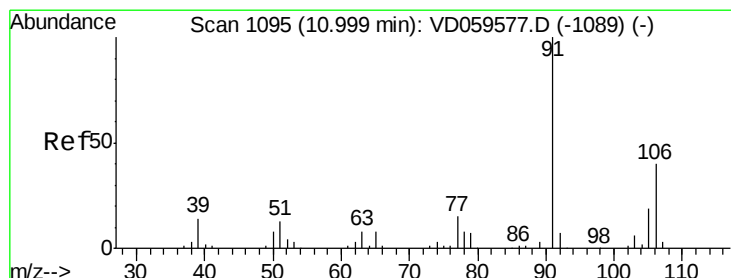
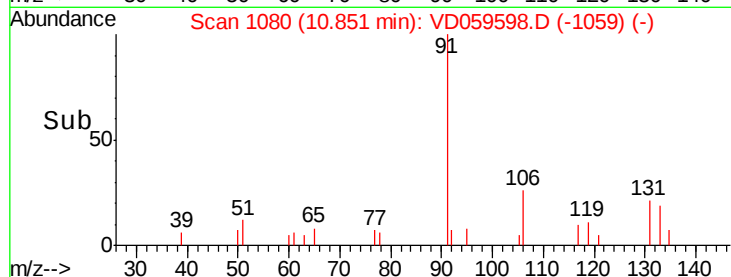
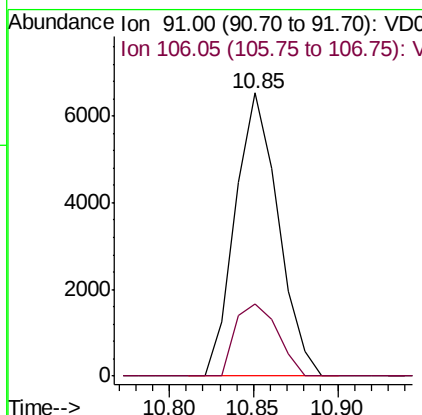
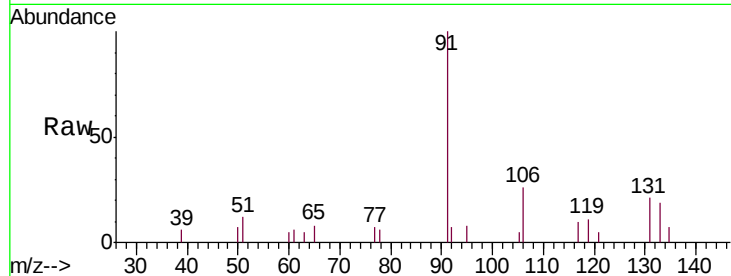




#67
Ethyl Benzene
Concen: 43.13 ug/l
RT: 10.85 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

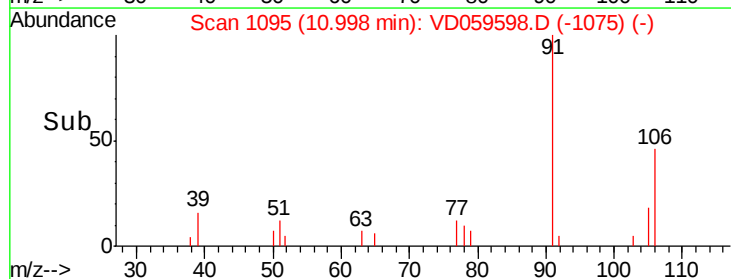
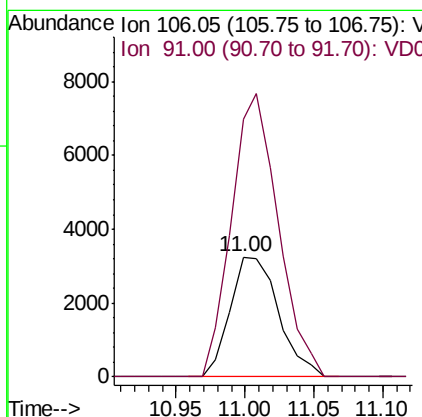
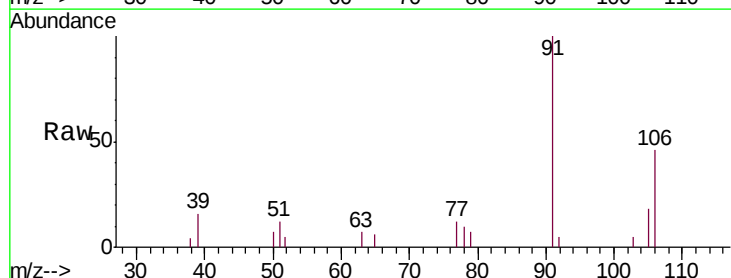
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

Tot Ion: 91 Resp: 11555
Ion Ratio Lower Upper
91 100
106 25.7 21.6 32.4



#68
m/p-Xylenes
Concen: 88.88 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.00 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 106 Resp: 7952
Ion Ratio Lower Upper
106 100
91 215.7 198.2 297.4

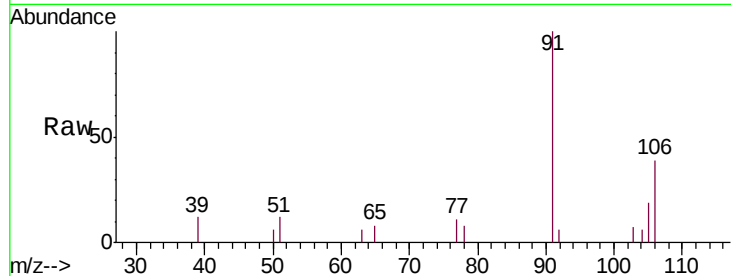




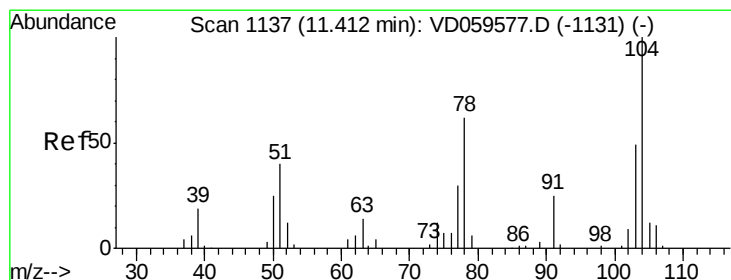
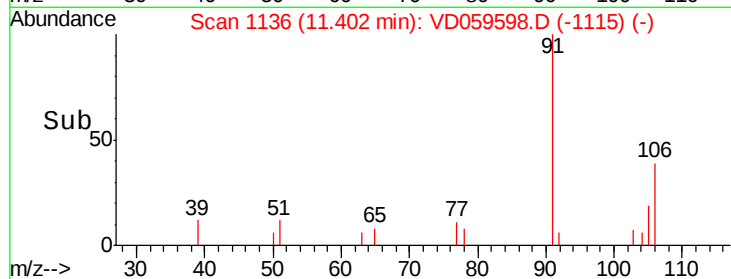
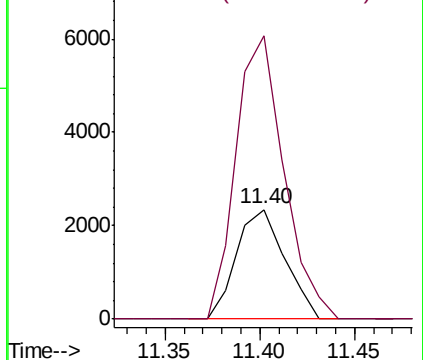
#69
o-Xylene
Concen: 47.79 ug/l
RT: 11.40 min Scan# 1136
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

Tot Ion:106 Resp: 4149
Ion Ratio Lower Upper
106 100
91 257.8 122.7 368.1

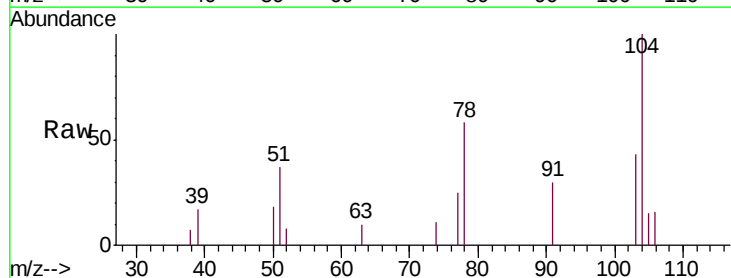


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

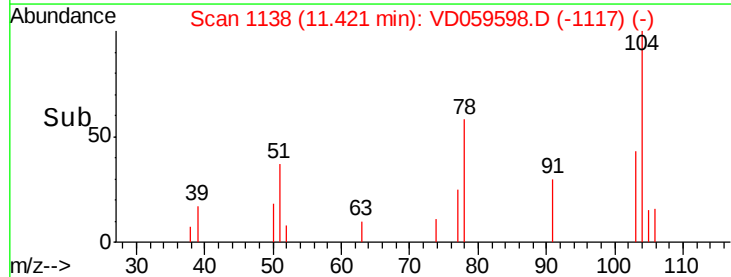
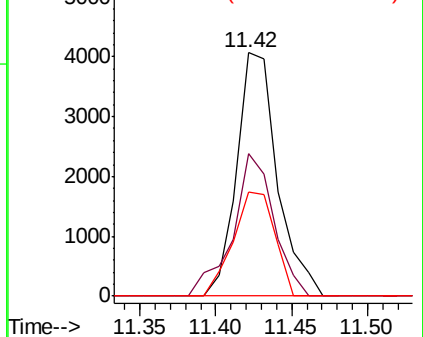


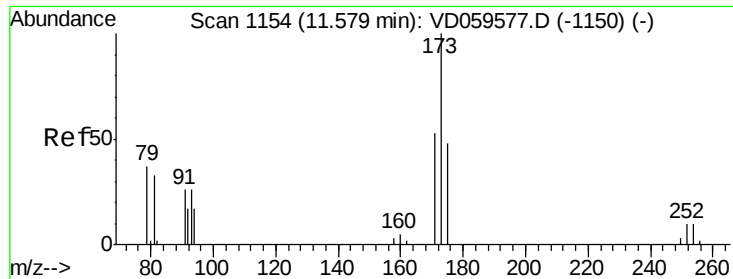
#70
Styrene
Concen: 52.72 ug/l
RT: 11.42 min Scan# 1138
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion:104 Resp: 7588
Ion Ratio Lower Upper
104 100
78 58.4 49.4 74.0
103 42.9 39.0 58.6



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: 78.03 ug/l

RT: 11.59 min Scan# 1155

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

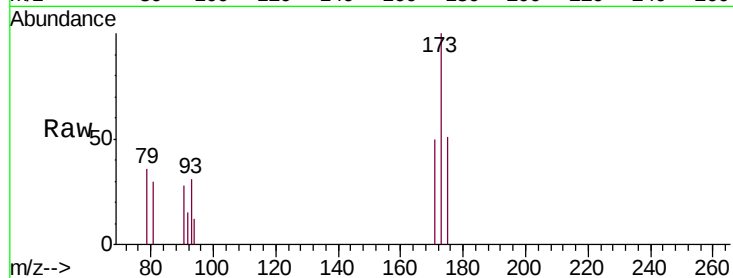
Tot Ion:173 Resp: 4307

Ion Ratio Lower Upper

173 100

175 50.5 23.8 71.4

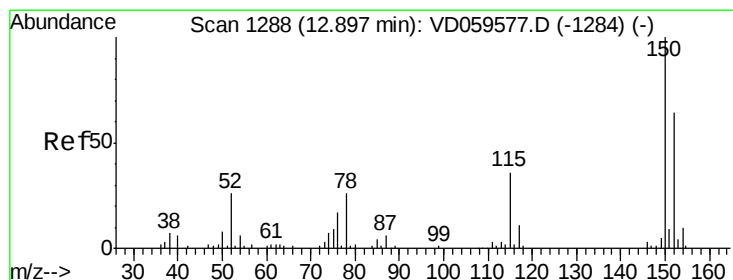
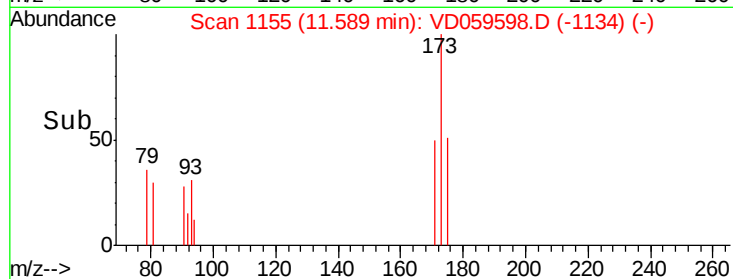
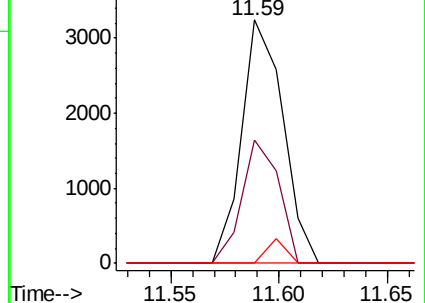
254 0.0 7.8 11.6#



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: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

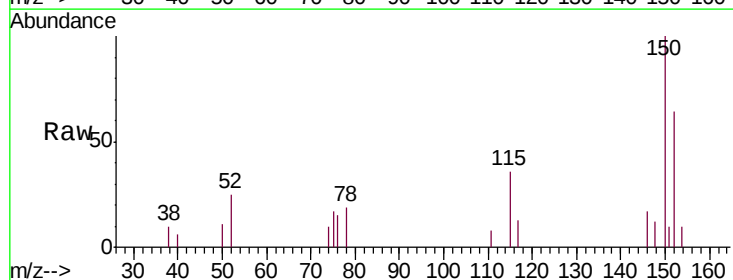
Tgt Ion:152 Resp: 4668

Ion Ratio Lower Upper

152 100

115 56.9 29.5 88.6

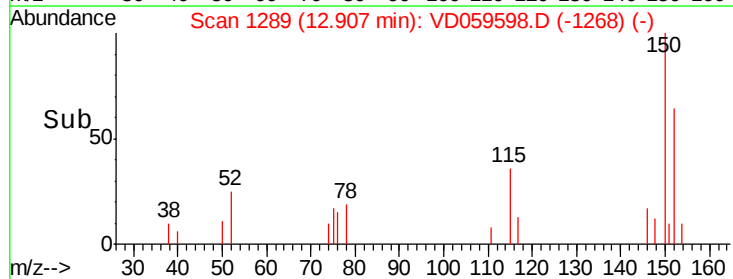
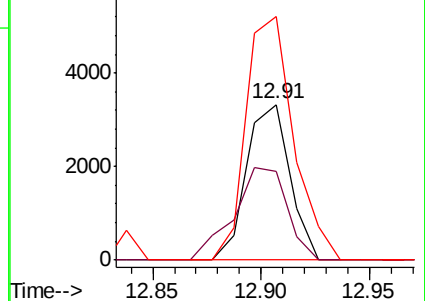
150 156.8 0.0 314.4

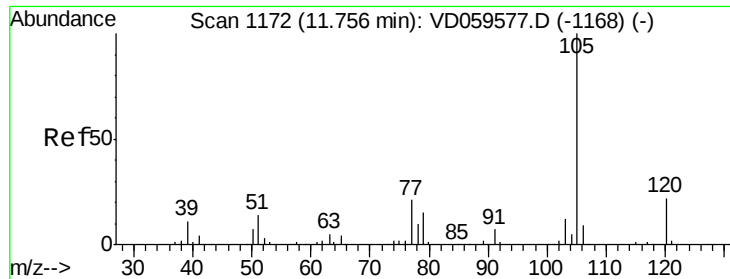


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 33.44 ug/l

RT: 11.77 min Scan# 1173

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

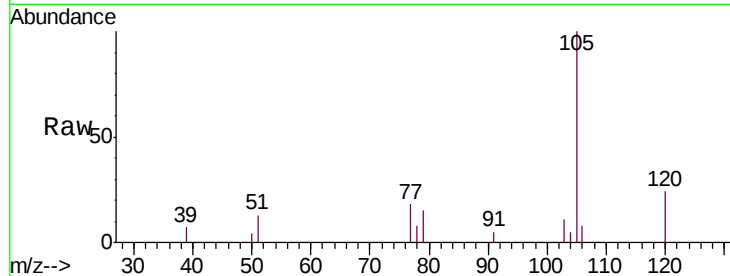
KY030LC006-S-180716MS

Tot Ion:105 Resp: 11028

Ion Ratio Lower Upper

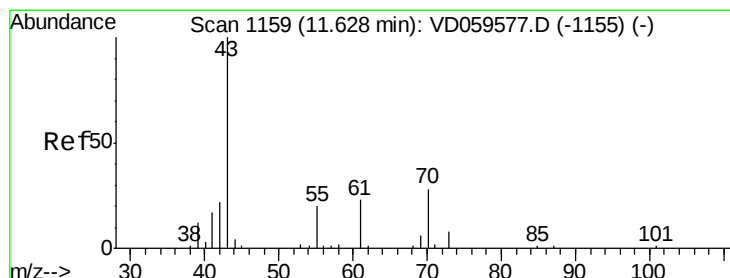
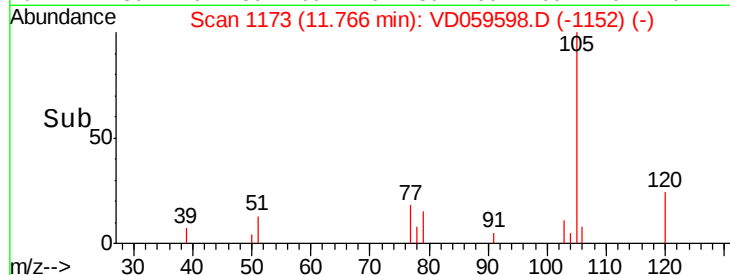
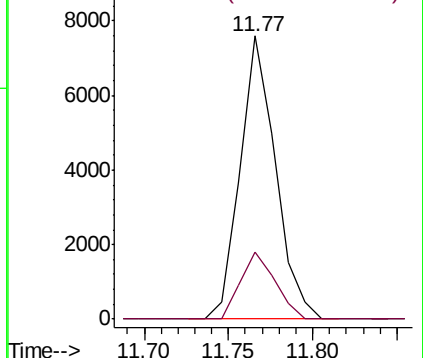
105 100

120 23.5 10.9 32.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 68.03 ug/l

RT: 11.64 min Scan# 1160

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Tgt Ion: 43 Resp: 7687

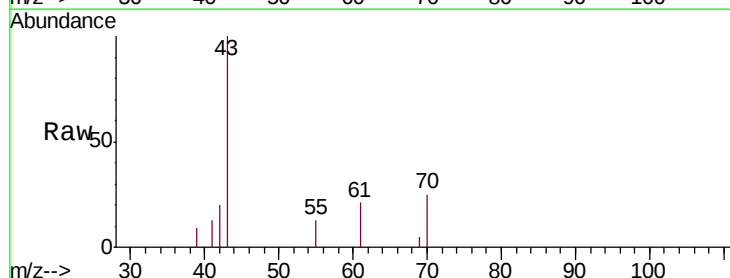
Ion Ratio Lower Upper

43 100

70 25.0 22.0 33.0

55 13.1 16.2 24.2#

61 21.3 18.6 27.8

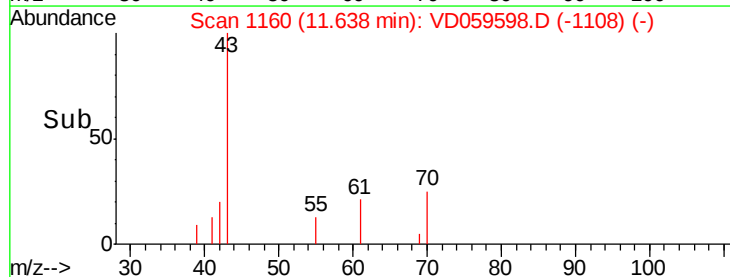
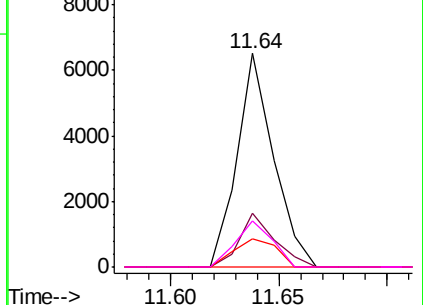


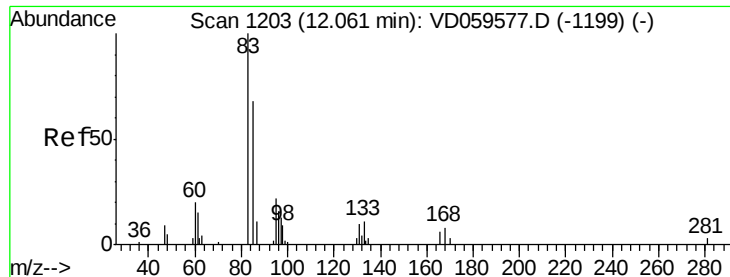
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 95.99 ug/l

RT: 12.07 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

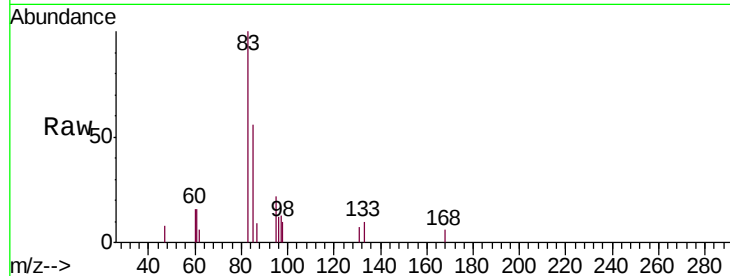
Tot Ion: 83 Resp: 6463

Ion Ratio Lower Upper

83 100

131 7.0 5.1 15.2

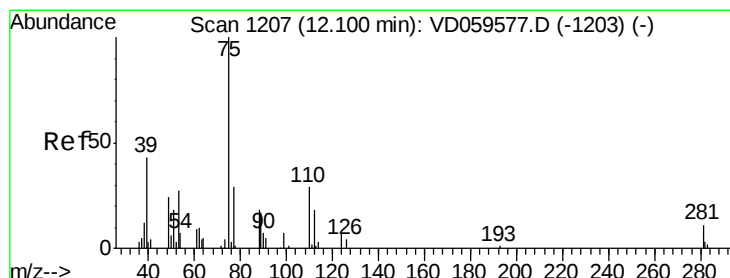
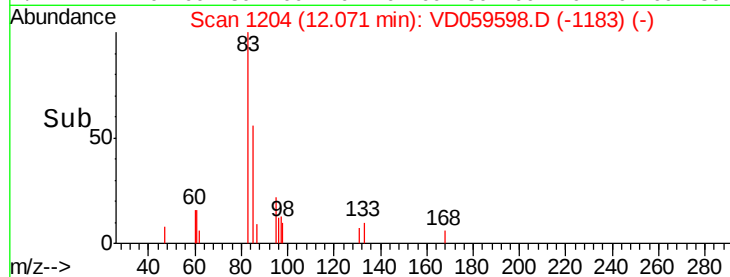
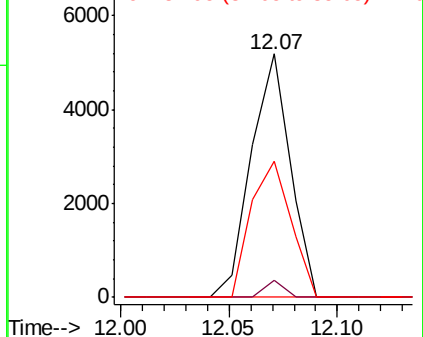
85 55.7 34.1 102.3



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: 94.83 ug/l

RT: 12.10 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VD059598.D

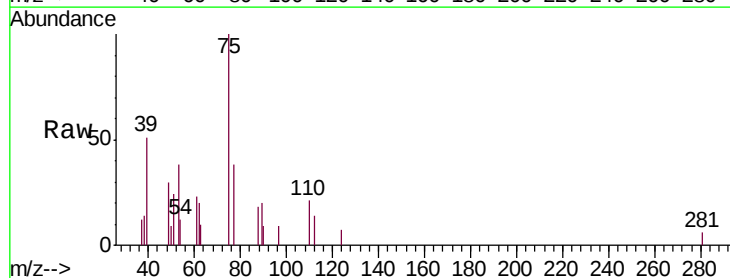
Acq: 25 Jul 2018 19:28

Tgt Ion: 75 Resp: 7320

Ion Ratio Lower Upper

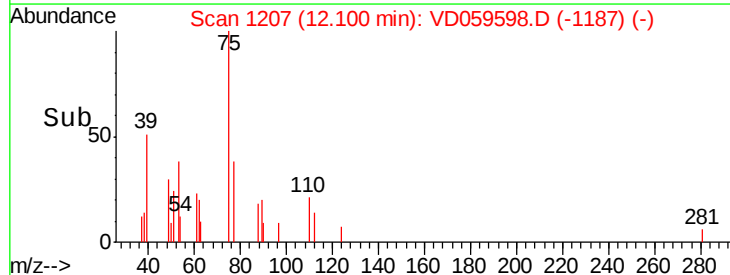
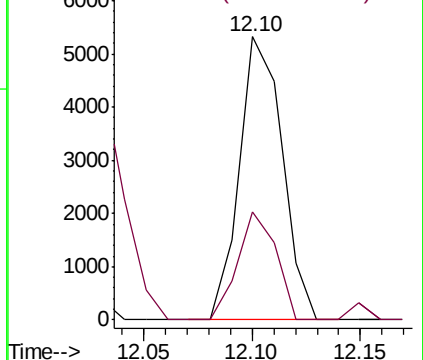
75 100

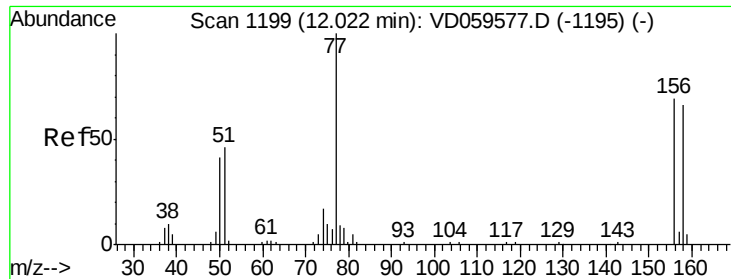
77 38.0 15.6 46.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 44.10 ug/l

RT: 12.03 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

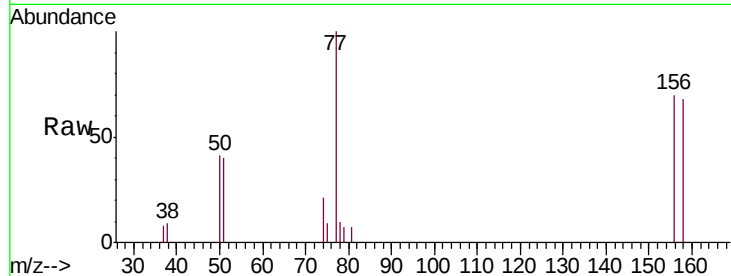
Tot Ion:156 Resp: 4257

Ion Ratio Lower Upper

156 100

77 143.1 72.4 217.2

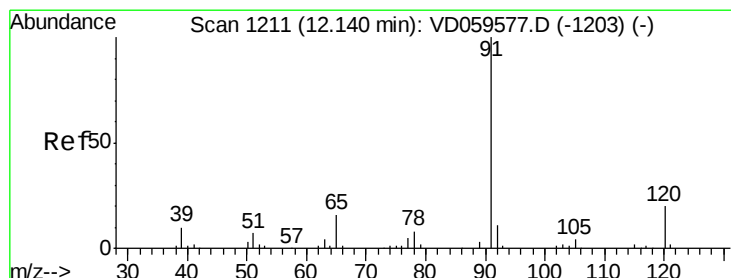
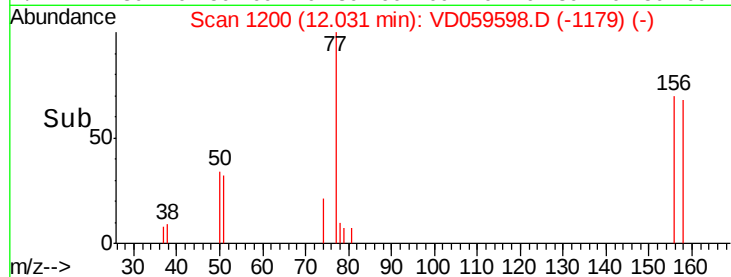
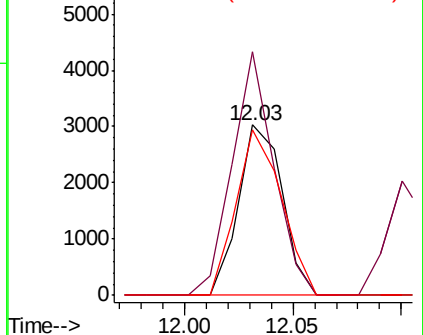
158 97.2 48.0 144.2



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: 32.34 ug/l

RT: 12.15 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VD059598.D

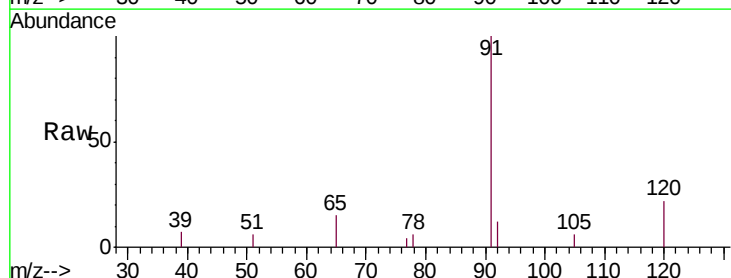
Acq: 25 Jul 2018 19:28

Tgt Ion: 91 Resp: 12959

Ion Ratio Lower Upper

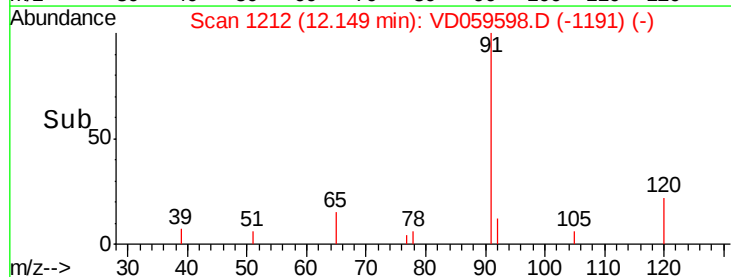
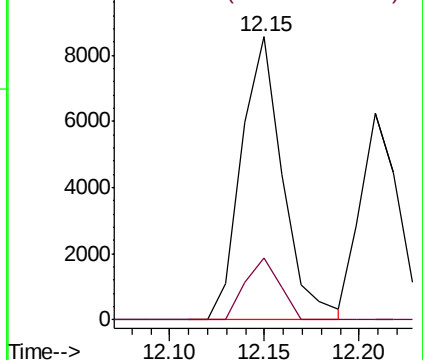
91 100

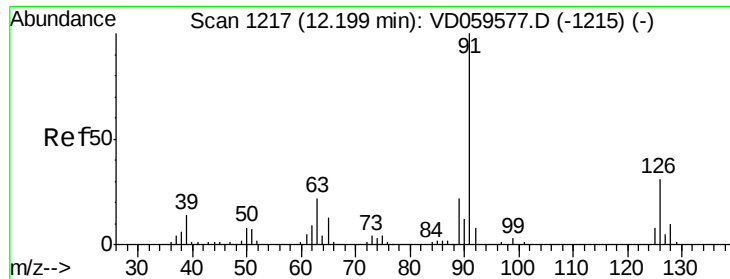
120 22.0 9.9 29.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

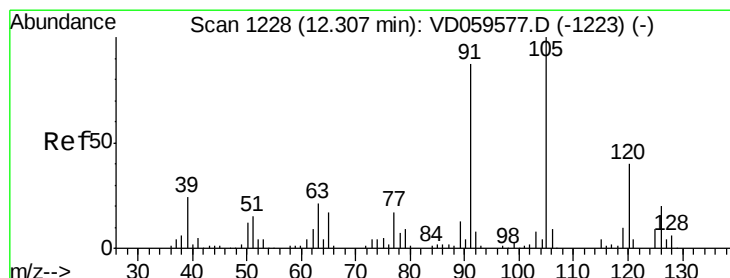
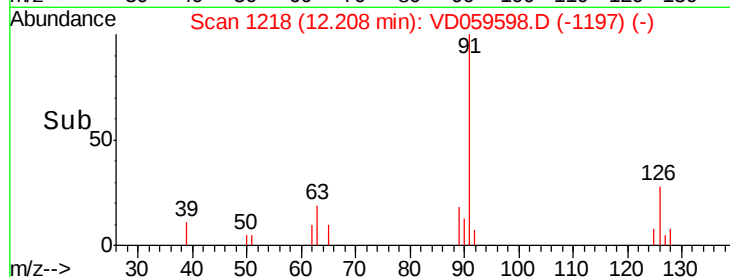
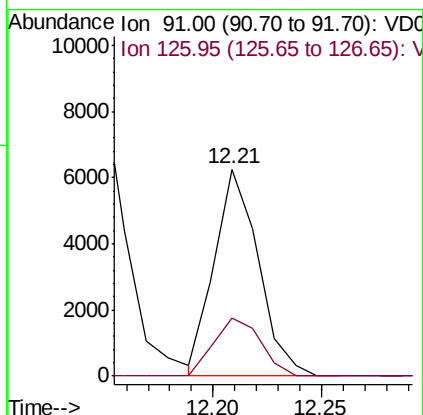
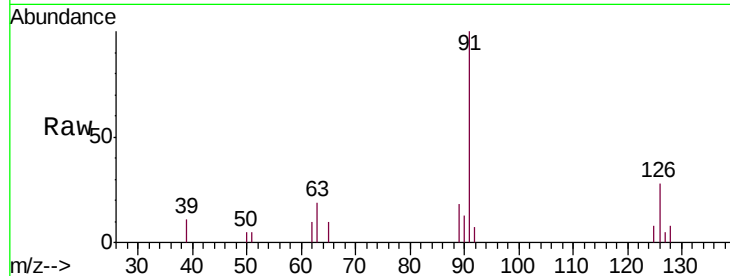




#79
 2-Chlorotoluene
 Concen: 37.13 ug/l
 RT: 12.21 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

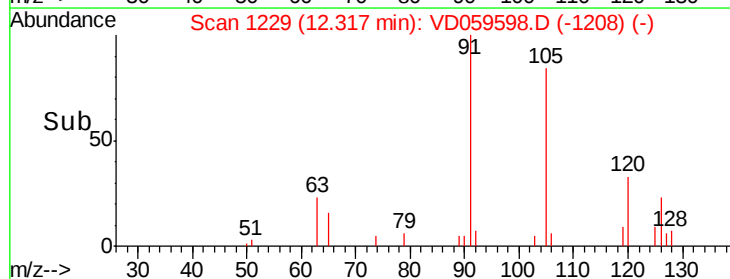
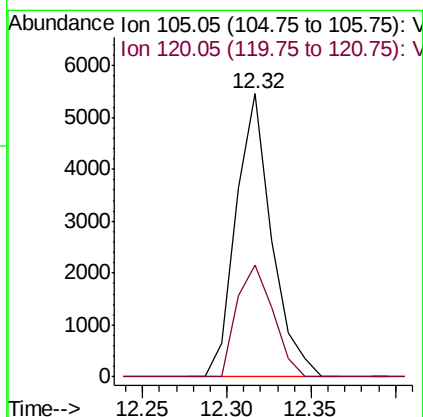
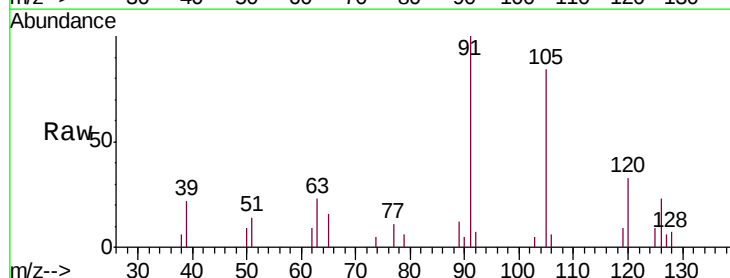
Instrument :
 MSVOA_D
 ClientSampleId :
 KY030LC006-S-180716MS

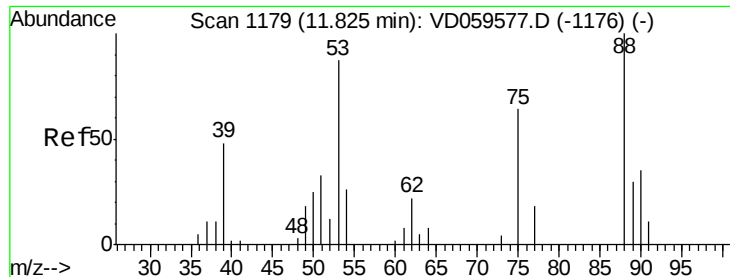
Tot Ion: 91 Resp: 8871
 Ion Ratio Lower Upper
 91 100
 126 28.1 14.5 43.6



#80
 1,3,5-Trimethylbenzene
 Concen: 30.78 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

Tgt Ion: 105 Resp: 8013
 Ion Ratio Lower Upper
 105 100
 120 39.3 19.9 59.6





#81

trans-1,4-Dichloro-2-butene

Concen: 70.78 ug/l

RT: 11.83 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

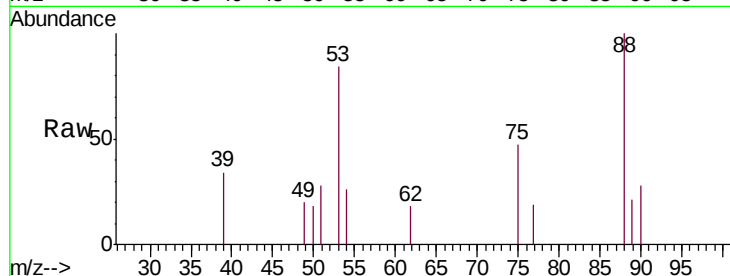
Tot Ion: 75 Resp: 1397

Ion Ratio Lower Upper

75 100

53 180.0 107.7 161.5#

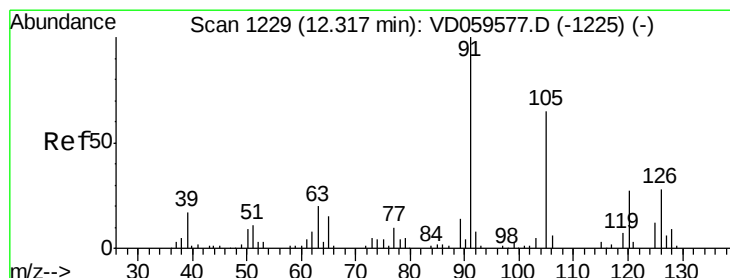
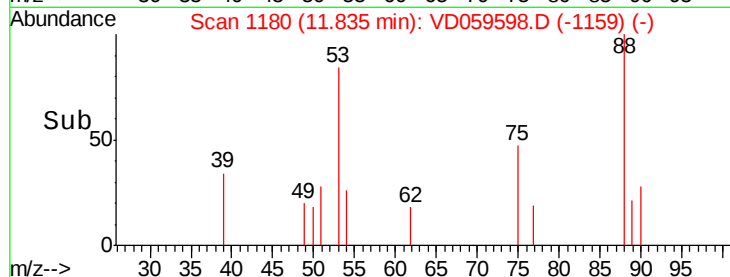
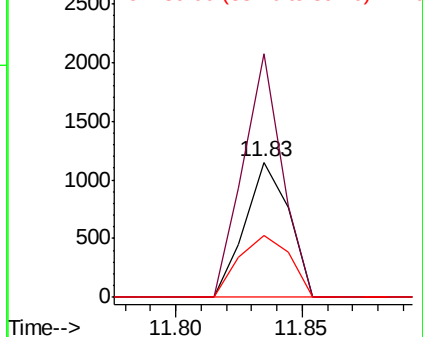
89 45.6 37.3 55.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 36.31 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD059598.D

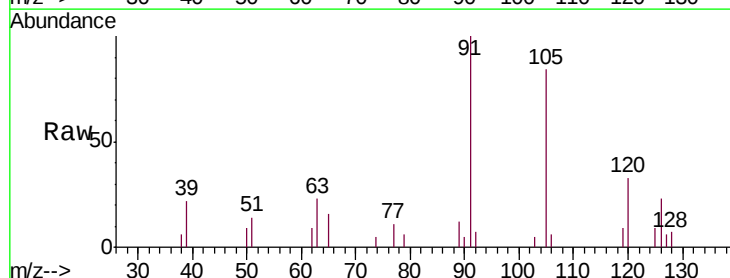
Acq: 25 Jul 2018 19:28

Tgt Ion: 91 Resp: 9810

Ion Ratio Lower Upper

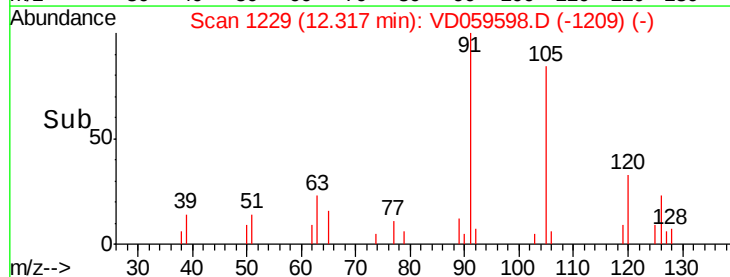
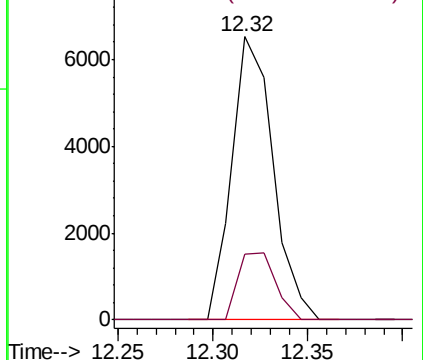
91 100

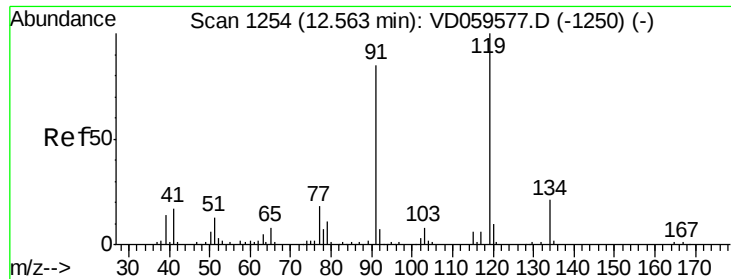
126 23.1 14.1 42.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

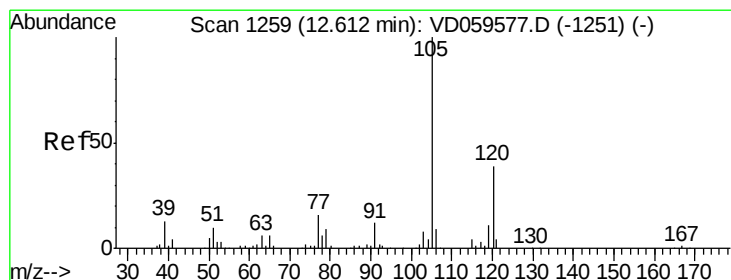
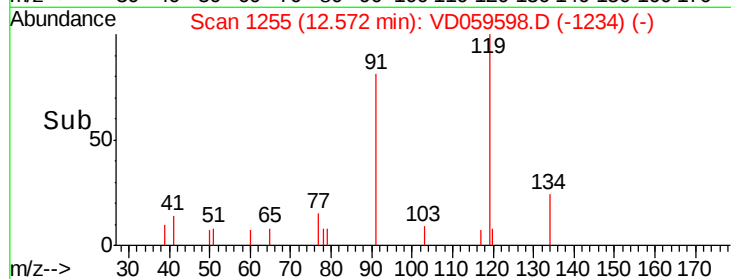
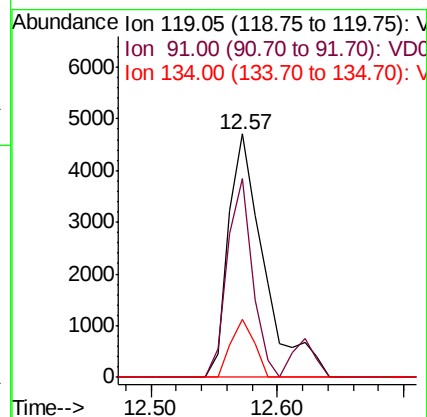
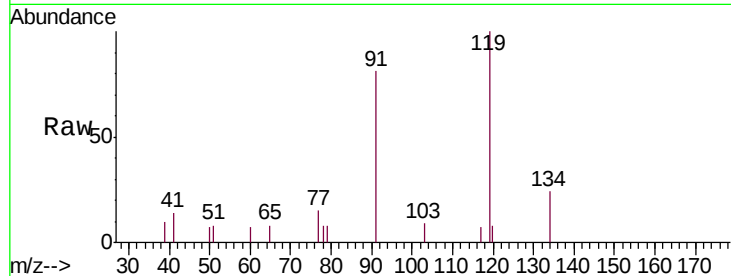




#83
tert-Butylbenzene
Concen: 31.53 ug/l
RT: 12.57 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

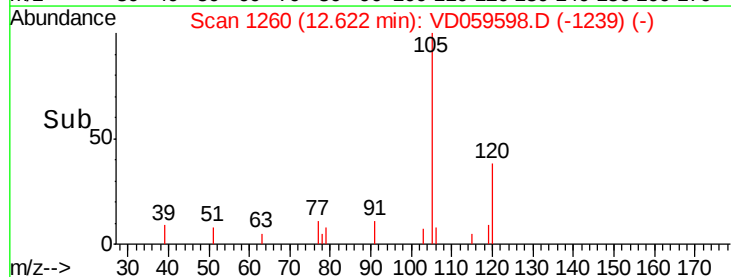
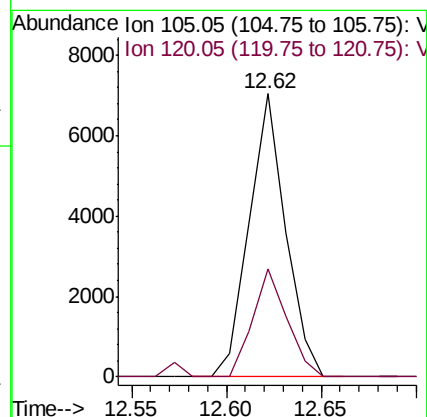
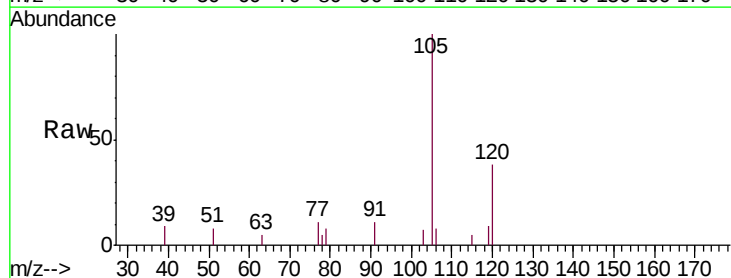
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

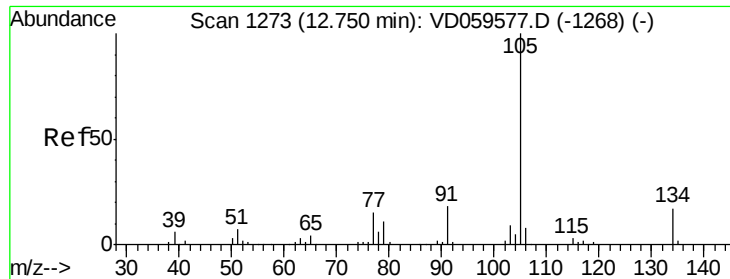
Tot Ion:119 Resp: 9242
Ion Ratio Lower Upper
119 100
91 81.4 42.5 127.5
134 23.9 10.5 31.6



#84
1,2,4-Trimethylbenzene
Concen: 34.05 ug/l
RT: 12.62 min Scan# 1260
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion:105 Resp: 9424
Ion Ratio Lower Upper
105 100
120 38.0 19.3 57.9





#85

sec-Butylbenzene

Concen: 26.22 ug/l

RT: 12.75 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

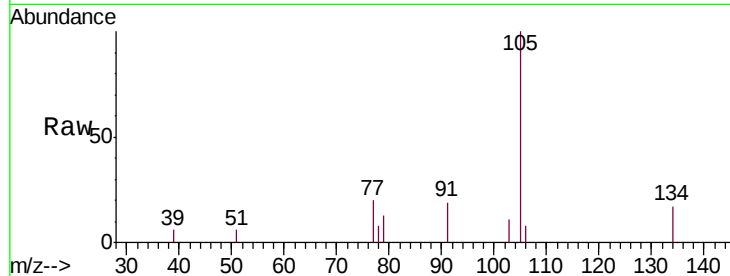
KY030LC006-S-180716MS

Tot Ion:105 Resp: 8782

Ion Ratio Lower Upper

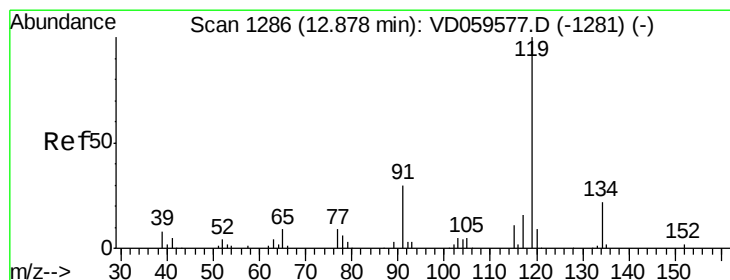
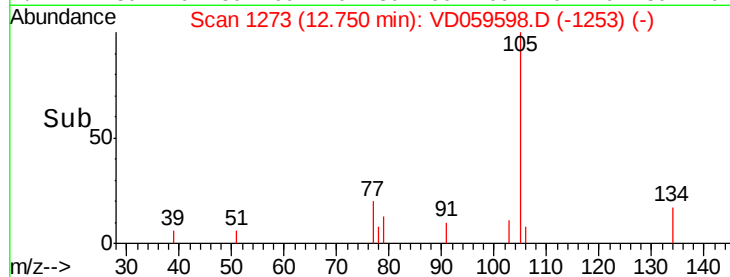
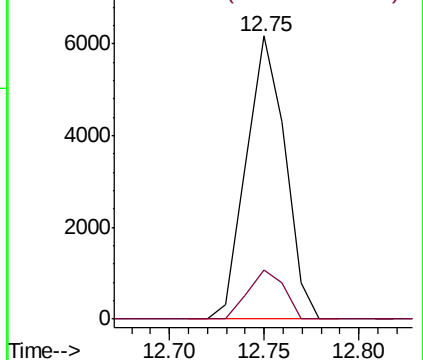
105 100

134 17.4 8.8 26.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 28.91 ug/l

RT: 12.88 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

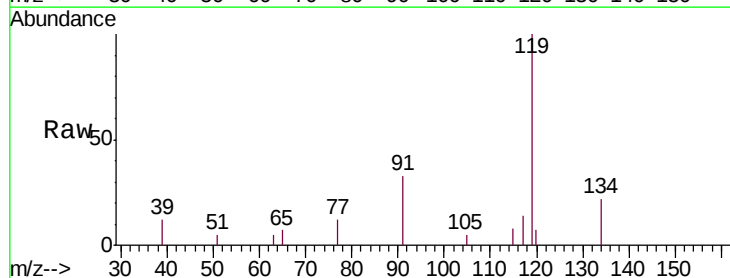
Tgt Ion:119 Resp: 8160

Ion Ratio Lower Upper

119 100

134 21.9 11.2 33.6

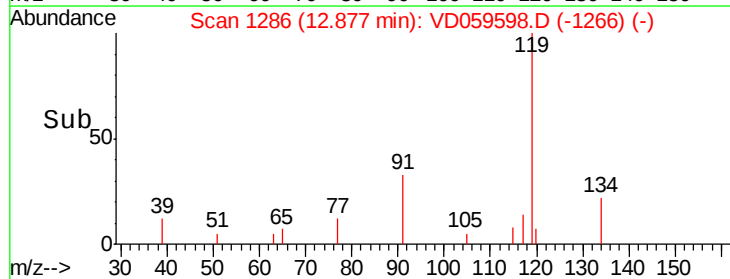
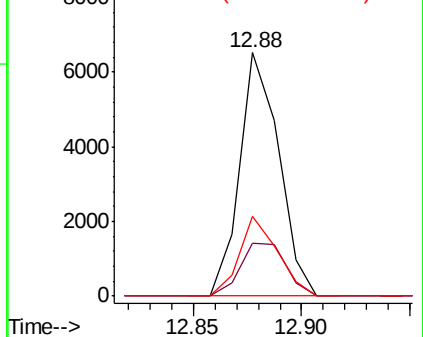
91 32.7 15.0 45.1

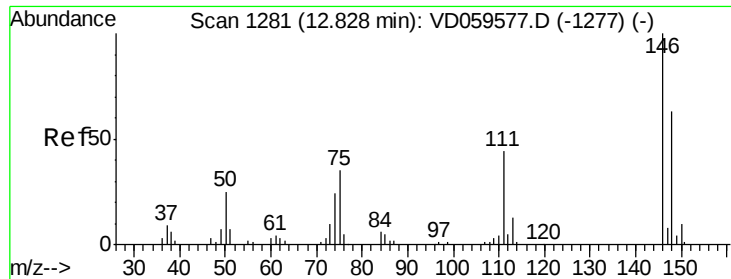


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

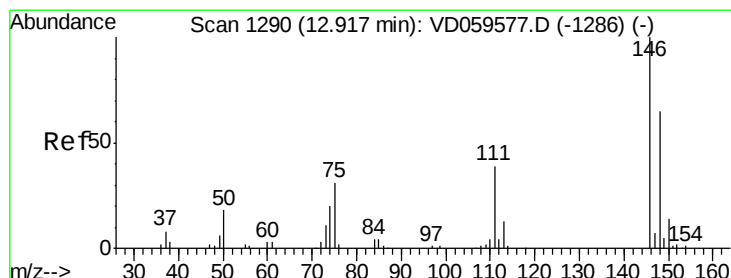
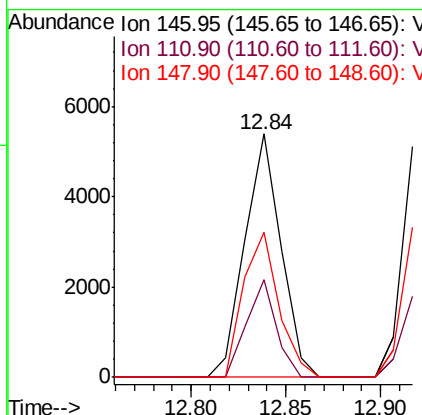
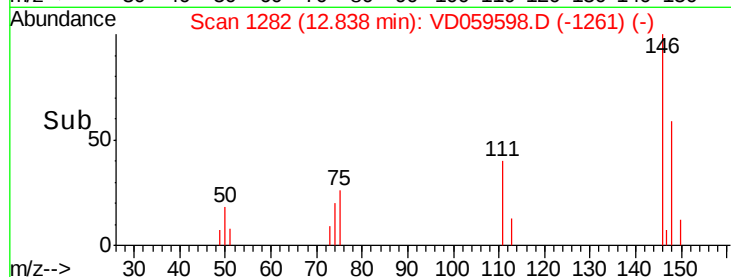
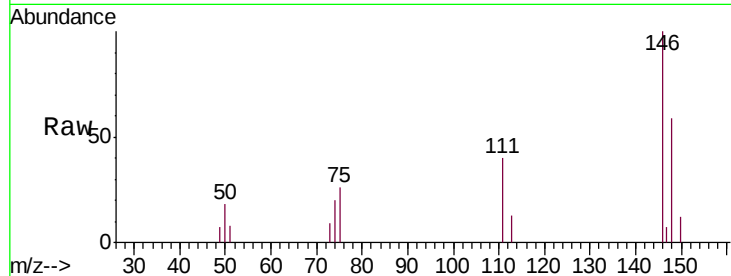




#87
 1,3-Dichlorobenzene
 Concen: 43.78 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

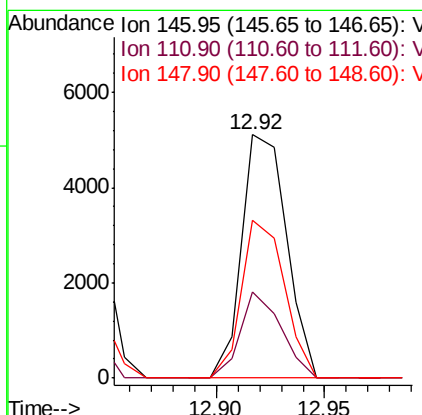
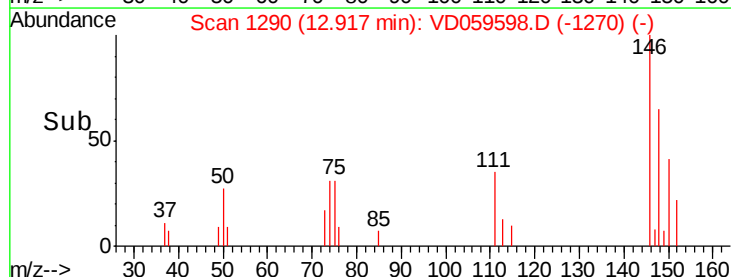
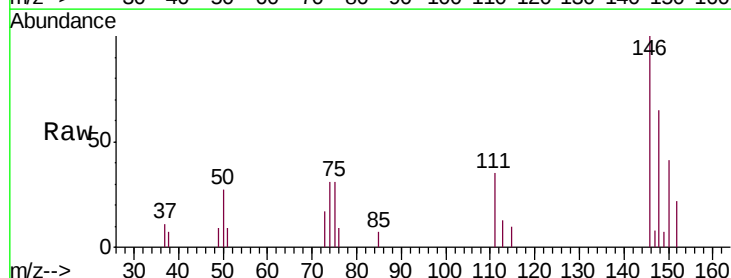
Instrument :
 MSVOA_D
 ClientSampleId :
 KY030LC006-S-180716MS

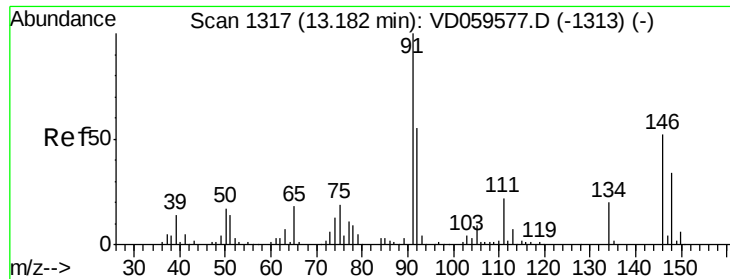
Tot Ion:146 Resp: 7148
 Ion Ratio Lower Upper
 146 100
 111 40.0 22.2 66.6
 148 59.4 31.8 95.3



#88
 1,4-Dichlorobenzene
 Concen: 46.62 ug/l
 RT: 12.92 min Scan# 1290
 Delta R.T. -0.00 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

Tgt Ion:146 Resp: 7333
 Ion Ratio Lower Upper
 146 100
 111 35.3 19.3 57.9
 148 64.8 32.4 97.2

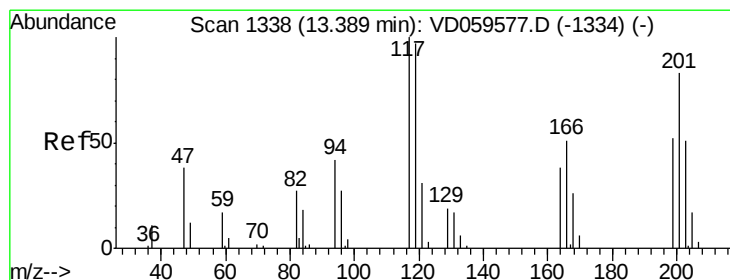
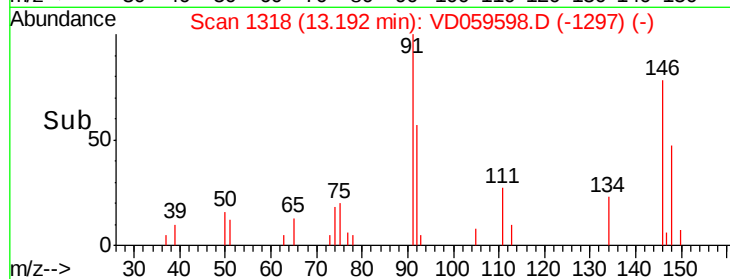
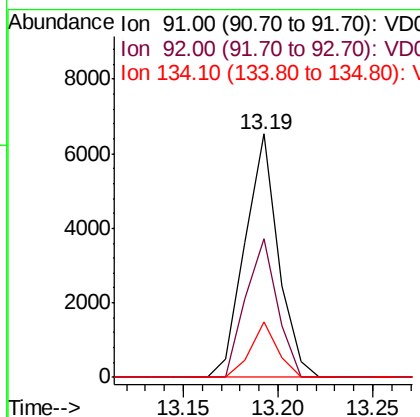
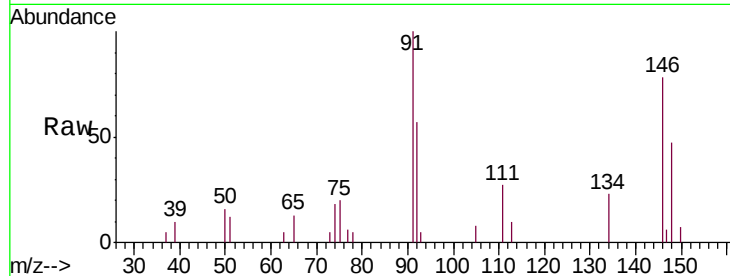




#89
n-Butylbenzene
Concen: 29.29 ug/l
RT: 13.19 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

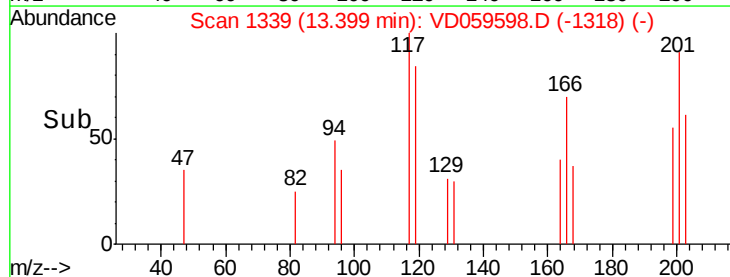
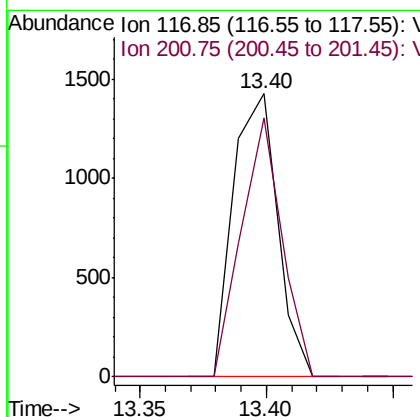
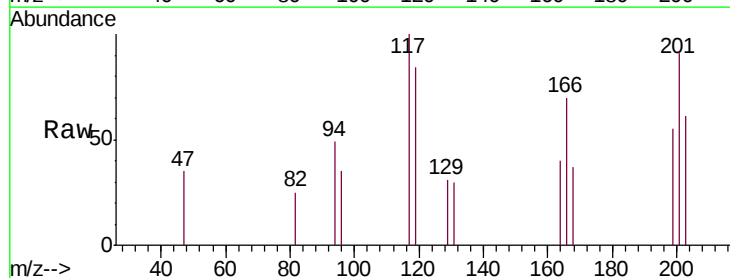
Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

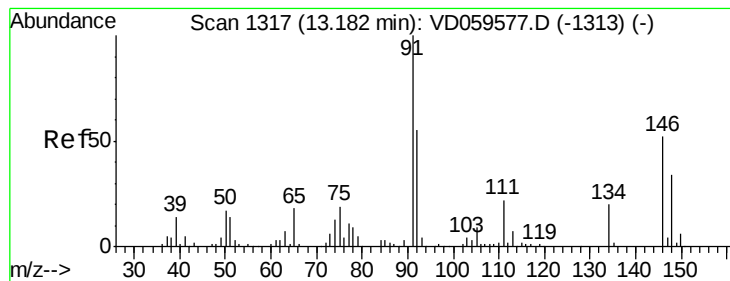
Tot Ion: 91 Resp: 7984
Ion Ratio Lower Upper
91 100
92 56.7 27.6 82.7
134 23.0 10.1 30.3



#90
Hexachloroethane
Concen: 23.03 ug/l
RT: 13.40 min Scan# 1339
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion: 117 Resp: 1737
Ion Ratio Lower Upper
117 100
201 91.4 41.5 124.5





#91

1,2-Dichlorobenzene

Concen: 48.64 ug/l

RT: 13.19 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

Instrument :

MSVOA_D

ClientSampleId :

KY030LC006-S-180716MS

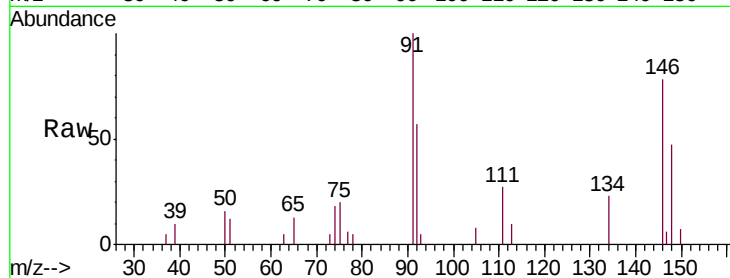
Tot Ion:146 Resp: 6663

Ion Ratio Lower Upper

146 100

111 34.5 21.4 64.3

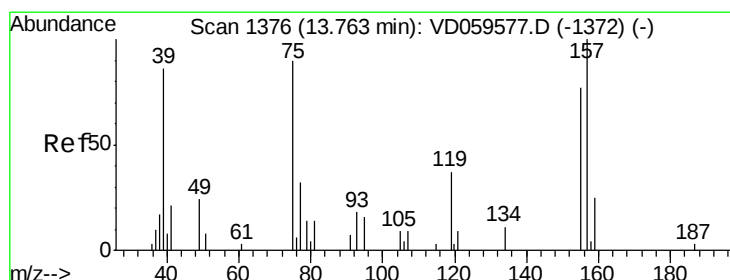
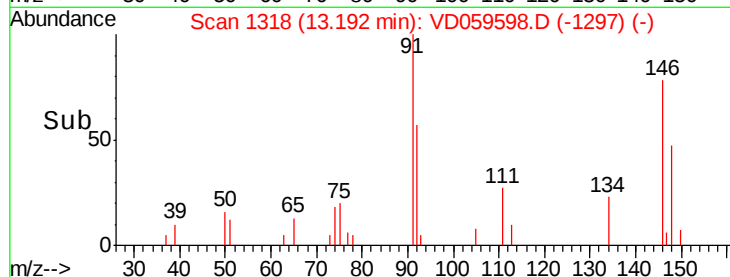
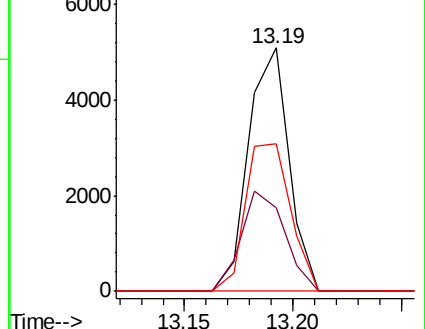
148 60.7 32.6 98.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 122.23 ug/l

RT: 13.77 min Scan# 1377

Delta R.T. 0.01 min

Lab File: VD059598.D

Acq: 25 Jul 2018 19:28

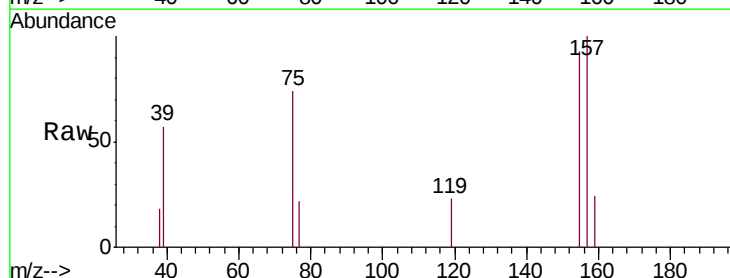
Tgt Ion: 75 Resp: 1659

Ion Ratio Lower Upper

75 100

155 125.9 42.5 127.5

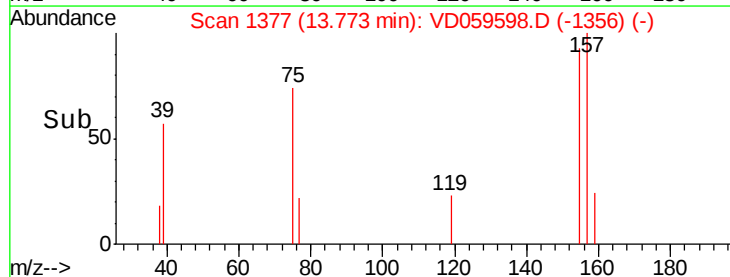
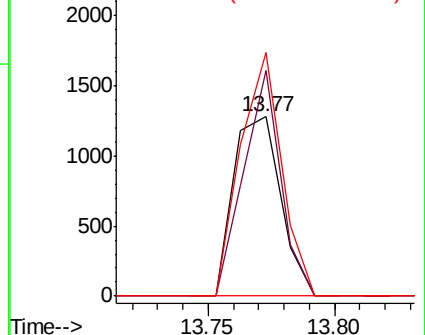
157 136.0 55.5 166.3

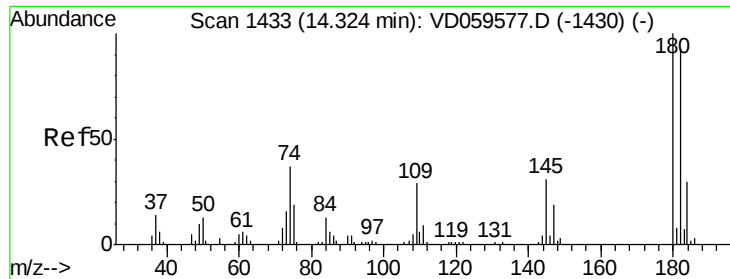


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

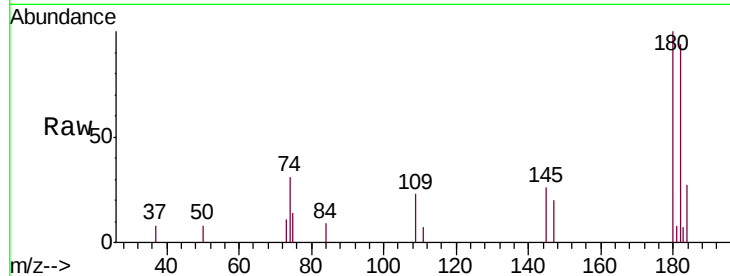




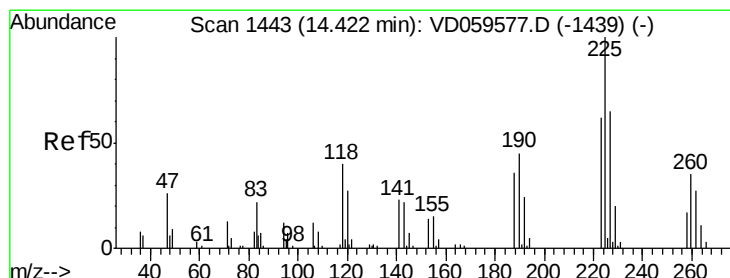
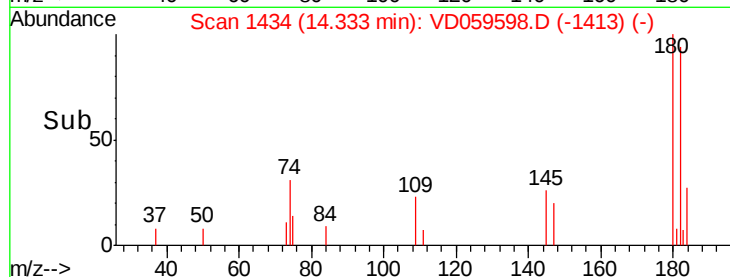
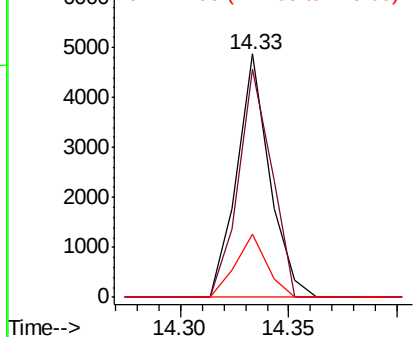
#93
 1,2,4-Trichlorobenzene
 Concen: 45.54 ug/l
 RT: 14.33 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

Instrument :
 MSVOA_D
 ClientSampleId :
 KY030LC006-S-180716MS

Tot Ion:180 Resp: 5166
 Ion Ratio Lower Upper
 180 100
 182 93.8 46.4 139.2
 145 26.2 15.7 47.0

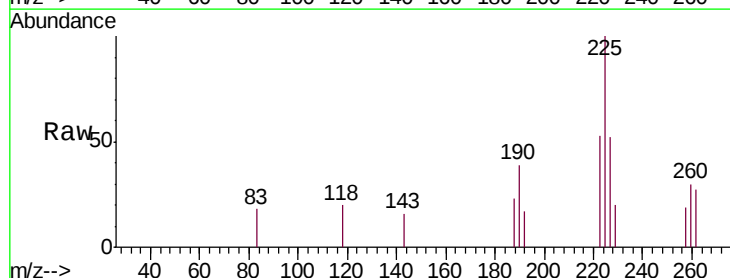


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

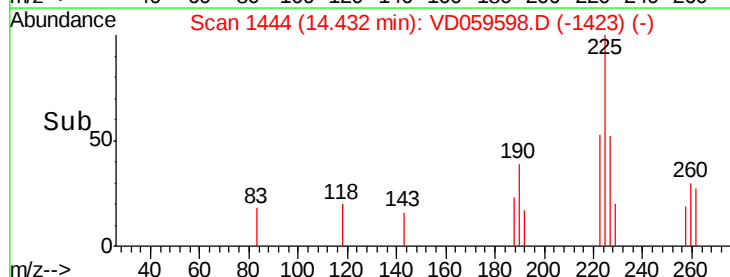
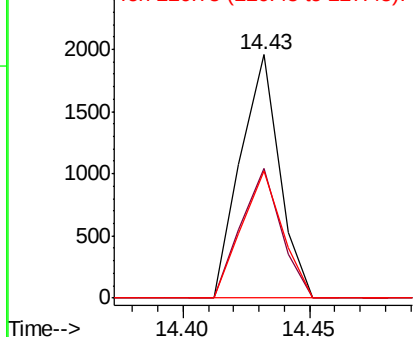


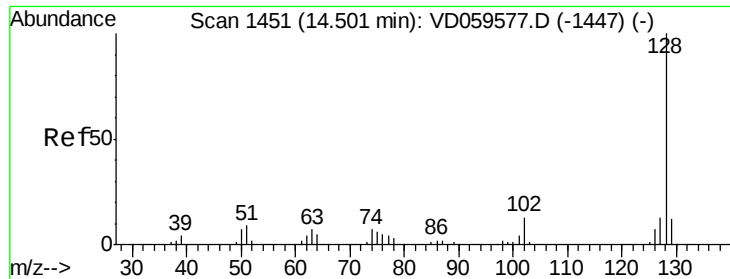
#94
 Hexachlorobutadiene
 Concen: 23.49 ug/l
 RT: 14.43 min Scan# 1444
 Delta R.T. 0.01 min
 Lab File: VD059598.D
 Acq: 25 Jul 2018 19:28

Tgt Ion:225 Resp: 2102
 Ion Ratio Lower Upper
 225 100
 223 53.2 31.1 93.5
 227 52.2 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

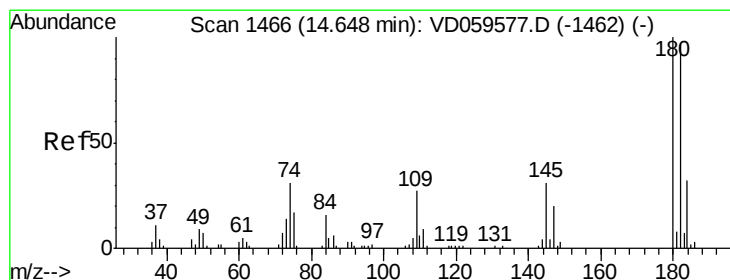
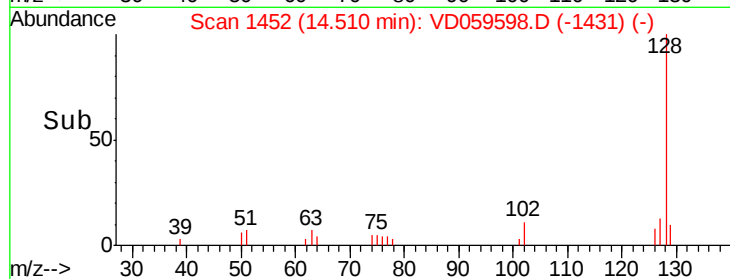
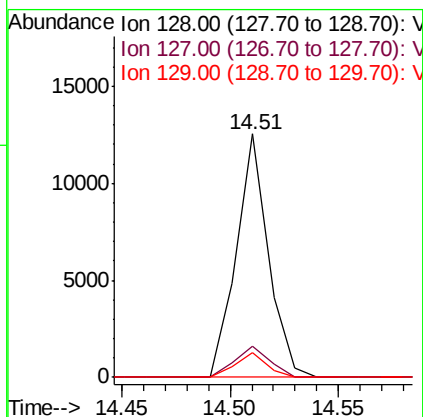
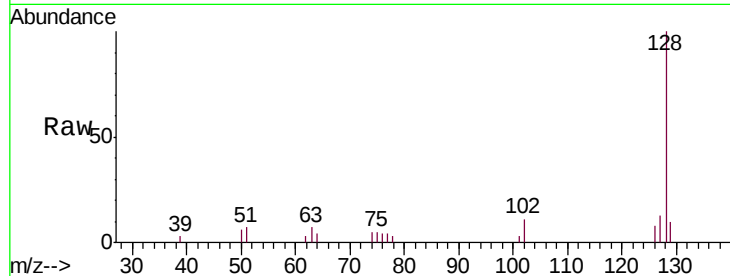




#95
Naphthalene
Concen: 80.39 ug/l
RT: 14.51 min Scan# 1452
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Instrument :
MSVOA_D
ClientSampleId :
KY030LC006-S-180716MS

Tot Ion:128 Resp: 12970
Ion Ratio Lower Upper
128 100
127 12.9 10.5 15.7
129 10.0 9.3 13.9



#96
1,2,3-Trichlorobenzene
Concen: 45.07 ug/l
RT: 14.66 min Scan# 1467
Delta R.T. 0.01 min
Lab File: VD059598.D
Acq: 25 Jul 2018 19:28

Tgt Ion:180 Resp: 4627
Ion Ratio Lower Upper
180 100
182 106.8 48.6 145.9
145 37.6 15.6 46.7

