

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058017.D
 Acq On : 8 Jun 2018 14:52
 Operator : VA/AP
 Sample : J3320-03MSD
 Misc : 5.96g/5ml/MSVOA D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

Quant Time: Jun 08 23:55:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	912914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	1156082	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	885876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	346807	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.01	65	446190	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
35) Dibromofluoromethane	5.54	113	480722	53.74	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	107.48%	
50) Toluene-d8	8.70	98	1067948	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.93	95	383128	41.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.35	85	570123	46.53	ug/l	100
3) Chloromethane	1.48	50	295801	49.02	ug/l	96
4) Vinyl Chloride	1.56	62	313173	53.62	ug/l	98
5) Bromomethane	1.81	94	126074	55.07	ug/l	99
6) Chloroethane	1.89	64	133898	58.10	ug/l	96
7) Trichlorofluoromethane	2.09	101	419933	52.59	ug/l	99
8) Diethyl Ether	2.35	74	88243	59.49	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.56	101	232064	48.73	ug/l	97
10) Methyl Iodide	2.69	142	319674	52.02	ug/l	96
11) Tert butyl alcohol	3.27	59	69841	285.65	ug/l	96
12) 1,1-Dichloroethene	2.55	96	194570	53.14	ug/l	96
13) Acrolein	2.48	56	66550	190.06	ug/l	98
14) Allyl chloride	2.92	41	440284	52.13	ug/l	92
15) Acrylonitrile	3.36	53	347501	242.95	ug/l	99
16) Acetone	2.62	43	432357	328.80	ug/l	98
17) Carbon Disulfide	2.76	76	719919	54.28	ug/l	100
18) Methyl Acetate	2.94	43	165084	64.90	ug/l	100
19) Methyl tert-butyl Ether	3.40	73	826243	51.29	ug/l	99
20) Methylene Chloride	3.07	84	195476	54.60	ug/l	87
21) trans-1,2-Dichloroethene	3.38	96	408948	50.15	ug/l	97
22) Diisopropyl ether	4.07	45	1701939	50.86	ug/l	96
23) Vinyl Acetate	4.01	43	4249001	245.77	ug/l	99
24) 1,1-Dichloroethane	3.97	63	932724	50.72	ug/l	100
25) 2-Butanone	4.83	43	814652	272.61	ug/l	96
26) 2,2-Dichloropropane	4.79	77	758995	50.10	ug/l	93
27) cis-1,2-Dichloroethene	4.80	96	583833	60.36	ug/l	96
28) Bromochloromethane	5.14	49	447120	56.18	ug/l	94
29) Tetrahydrofuran	5.17	42	435693	278.13	ug/l	95
30) Chloroform	5.31	83	945041	51.06	ug/l	98
31) Cyclohexane	5.59	56	729307	45.95	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	795342	51.32	ug/l	99
36) 1,1-Dichloropropene	5.74	75	667658	52.42	ug/l	97
37) Ethyl Acetate	4.92	43	448371	64.51	ug/l	99
38) Carbon Tetrachloride	5.72	117	672515	53.58	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.27	83	548299	43.43	ug/l	98
40) Benzene	6.01	78	1540156	51.76	ug/l	98
41) Methacrylonitrile	5.12	41	189450	59.62	ug/l	96
42) 1,2-Dichloroethane	6.12	62	655545	54.49	ug/l	100
43) Isopropyl Acetate	7.61	43	505053	55.48	ug/l	99
44) Trichloroethene	6.98	130	472195	54.33	ug/l	100
45) 1,2-Dichloropropane	7.34	63	438778	53.06	ug/l	97
46) Dibromomethane	7.46	93	282090	53.10	ug/l	97
47) Bromodichloromethane	7.73	83	668516	53.75	ug/l	96
48) Methyl methacrylate	7.50	41	311226	55.55	ug/l	96
49) 1,4-Dioxane	7.48	88	52552	1132.19	ug/l	99
51) 4-Methyl-2-Pentanone	8.59	43	1626104	278.49	ug/l	98
52) Toluene	8.80	92	854990	50.07	ug/l	100
53) t-1,3-Dichloropropene	9.18	75	574624	53.62	ug/l	96
54) cis-1,3-Dichloropropene	8.35	75	680129	53.87	ug/l	98
55) 1,1,2-Trichloroethane	9.45	97	284405	51.46	ug/l	97
56) Ethyl methacrylate	9.31	69	353626	52.16	ug/l	95
57) 1,3-Dichloropropane	9.65	76	511619	52.78	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.18	63	879304	256.73	ug/l	100
59) 2-Hexanone	9.78	43	1154328	269.77	ug/l	99
60) Dibromochloromethane	9.95	129	415794	53.35	ug/l	96
61) 1,2-Dibromoethane	10.09	107	342043	53.82	ug/l	99
64) Tetrachloroethene	9.51	164	407732	51.48	ug/l	98
65) Chlorobenzene	10.72	112	888566	49.55	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.85	131	360862	52.37	ug/l	98
67) Ethyl Benzene	10.86	91	1611438	49.74	ug/l	99
68) m/p-Xylenes	11.00	106	1010693	95.69	ug/l	97
69) o-Xylene	11.40	106	510722	48.71	ug/l	96
70) Styrene	11.43	104	747659	43.08	ug/l	98
71) Bromoform	11.59	173	278225	53.68	ug/l	99
73) Isopropylbenzene	11.77	105	1444188	62.87	ug/l	97
74) N-amyl acetate	11.64	43	603707	68.11	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.07	83	324298	64.75	ug/l	97
76) 1,2,3-Trichloropropane	12.11	75	344927	66.21	ug/l	100
77) Bromobenzene	12.04	156	398298	58.58	ug/l	84
78) n-propylbenzene	12.14	91	1719341	57.52	ug/l	98
79) 2-Chlorotoluene	12.21	91	977805	57.34	ug/l	94
80) 1,3,5-Trimethylbenzene	12.31	105	1020710	56.98	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.84	75	93299	72.31	ug/l	95
82) 4-Chlorotoluene	12.32	91	1043691	63.81	ug/l	93
83) tert-Butylbenzene	12.57	119	1177397	58.21	ug/l	93
84) 1,2,4-Trimethylbenzene	12.62	105	1092273	56.71	ug/l	97
85) sec-Butylbenzene	12.75	105	1263376	51.75	ug/l	96
86) p-Isopropyltoluene	12.88	119	1009240	51.29	ug/l	95
87) 1,3-Dichlorobenzene	12.83	146	554330	48.20	ug/l	98
88) 1,4-Dichlorobenzene	12.92	146	551911	49.25	ug/l	97
89) n-Butylbenzene	13.19	91	876238	49.38	ug/l	99
90) Hexachloroethane	13.39	117	270895	53.94	ug/l	80
91) 1,2-Dichlorobenzene	13.19	146	449460	48.35	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.77	75	47386	61.31	ug/l	69

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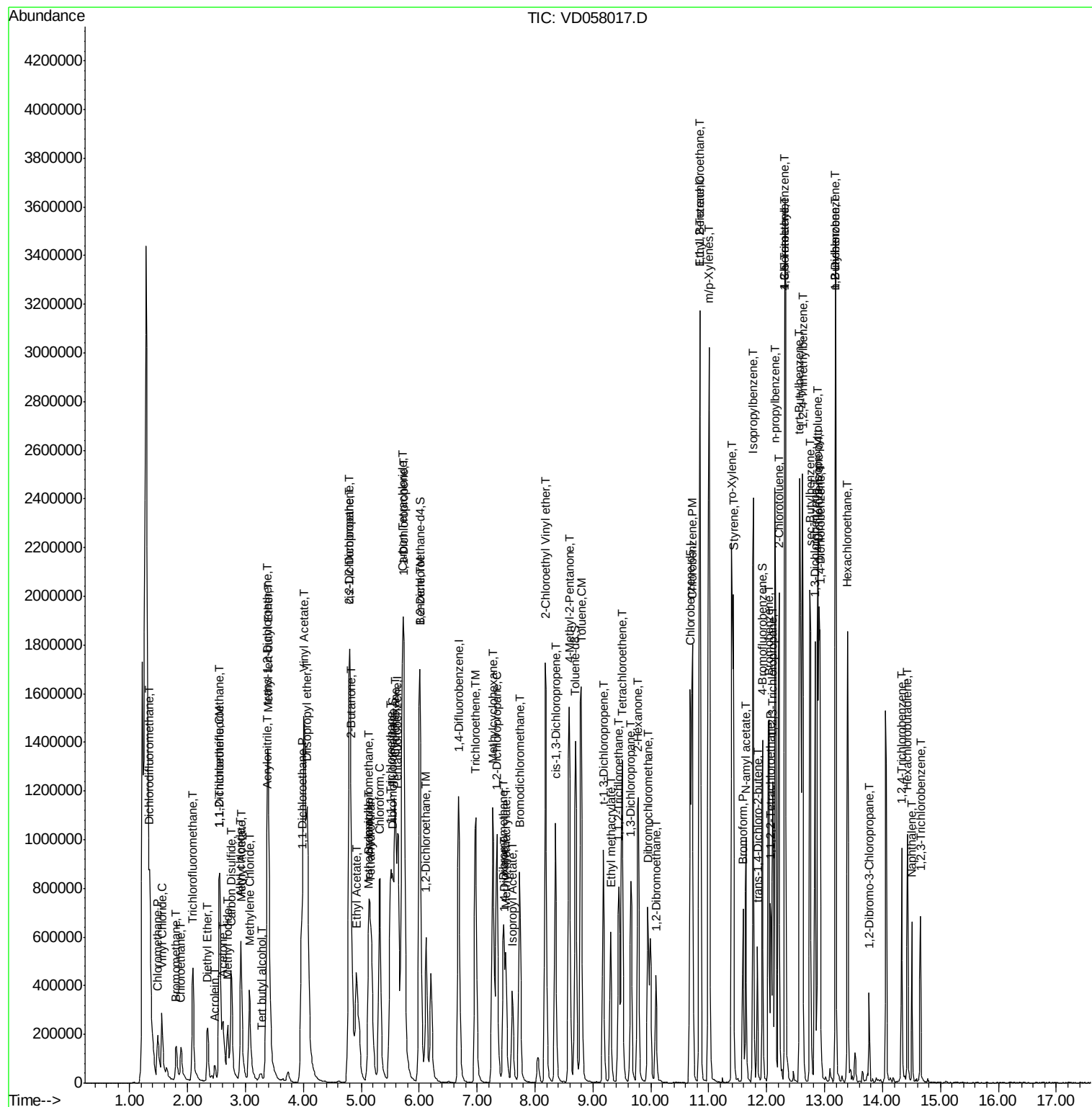
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	227206	26.16	ug/l	96
94) Hexachlorobutadiene	14.43	225	167665	24.55	ug/l	98
95) Naphthalene	14.51	128	342049	30.55	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	170578	23.05	ug/l	97

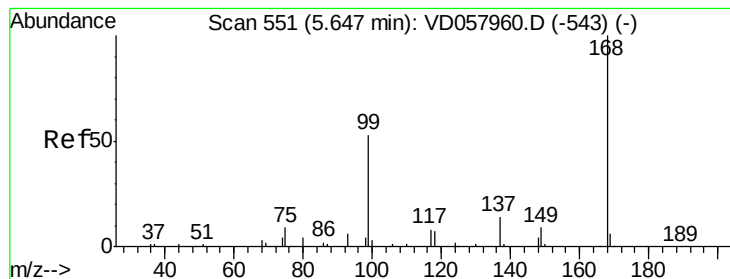
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

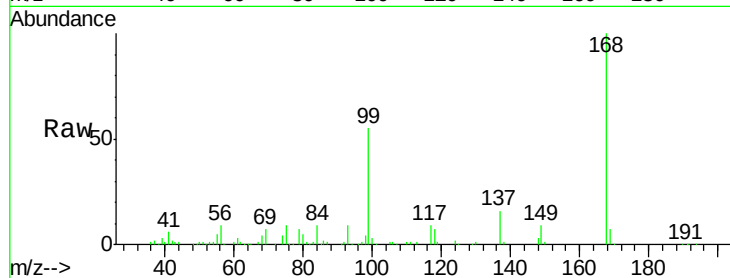
S39-0177MSD

Tot Ion:168 Resp: 912914

Ion Ratio Lower Upper

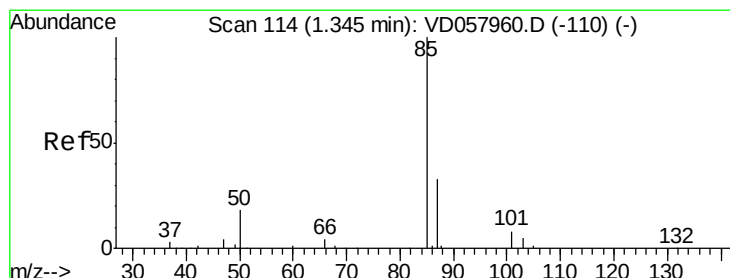
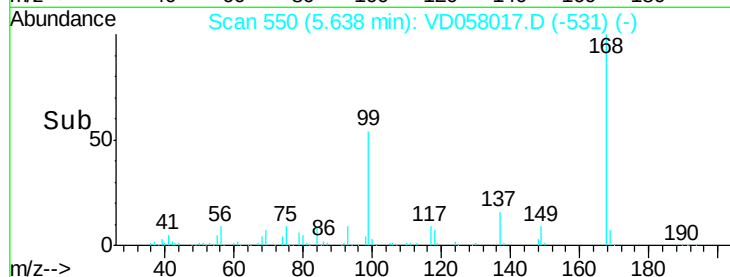
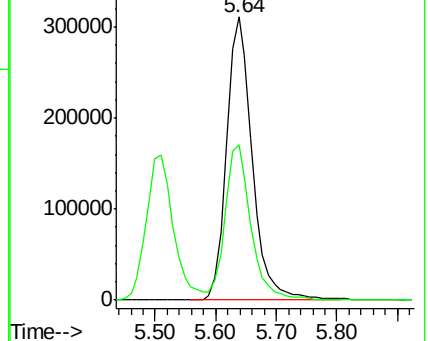
168 100

99 55.0 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 46.53 ug/l

RT: 1.35 min Scan# 114

Delta R.T. 0.00 min

Lab File: VD058017.D

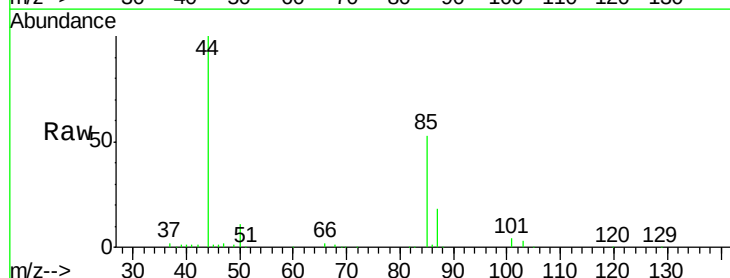
Acq: 8 Jun 2018 14:52

Tgt Ion: 85 Resp: 570123

Ion Ratio Lower Upper

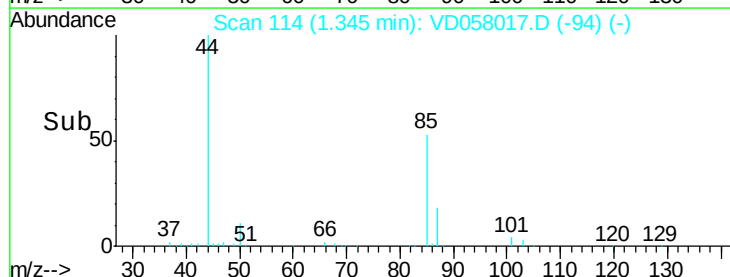
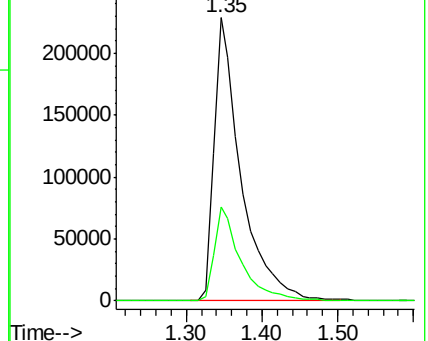
85 100

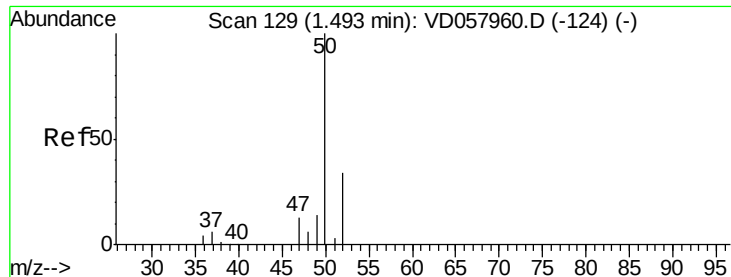
87 33.0 16.4 49.2



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 49.02 ug/l

RT: 1.48 min Scan# 128

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

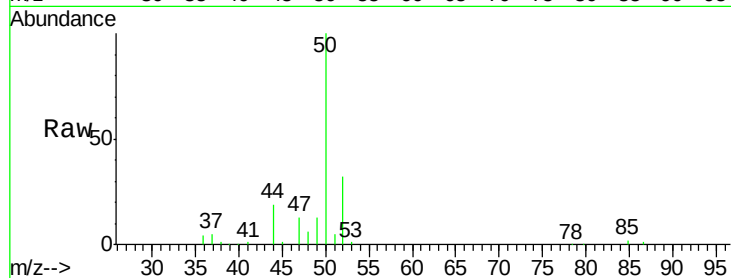
S39-0177MSD

Tot Ion: 50 Resp: 295801

Ion Ratio Lower Upper

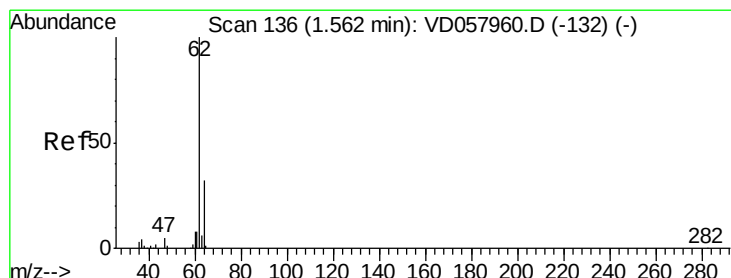
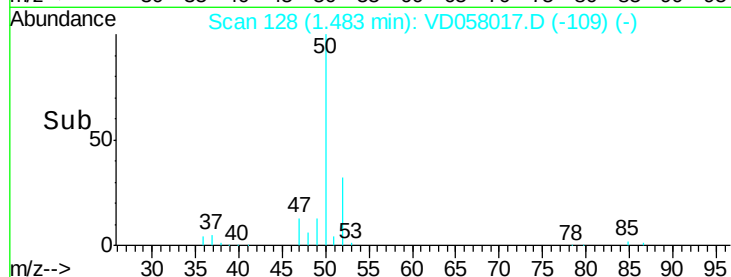
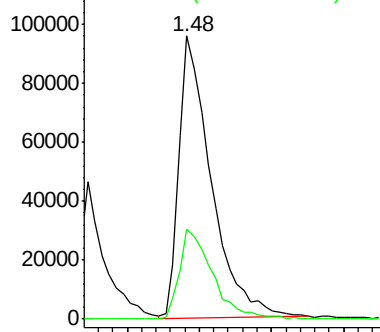
50 100

52 32.0 27.2 40.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 53.62 ug/l

RT: 1.56 min Scan# 136

Delta R.T. 0.00 min

Lab File: VD058017.D

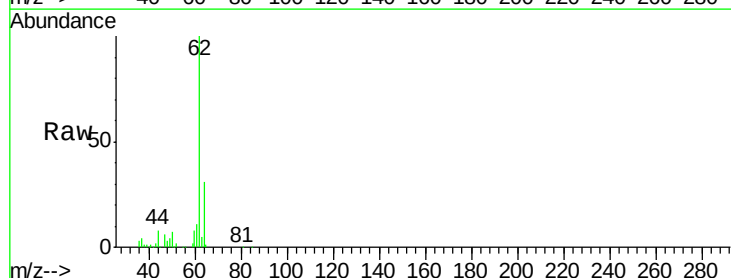
Acq: 8 Jun 2018 14:52

Tgt Ion: 62 Resp: 313173

Ion Ratio Lower Upper

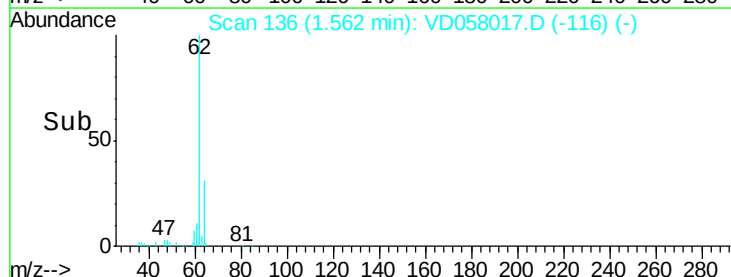
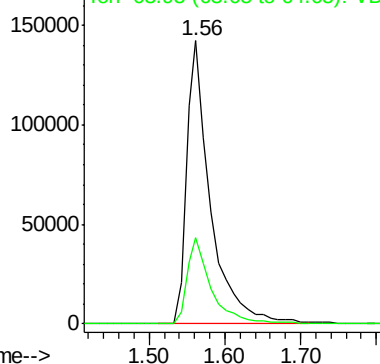
62 100

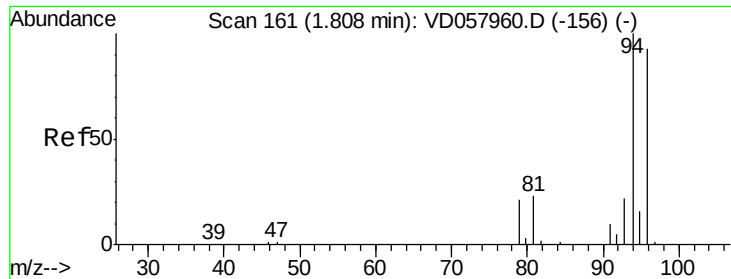
64 30.7 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

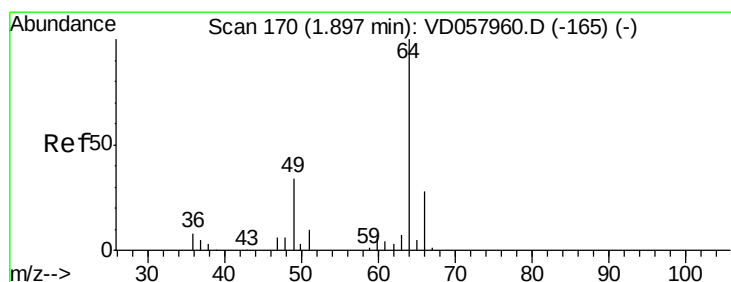
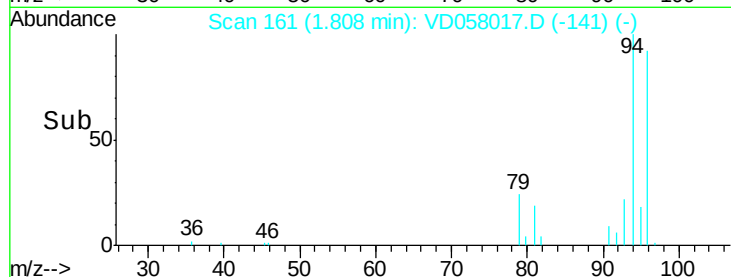
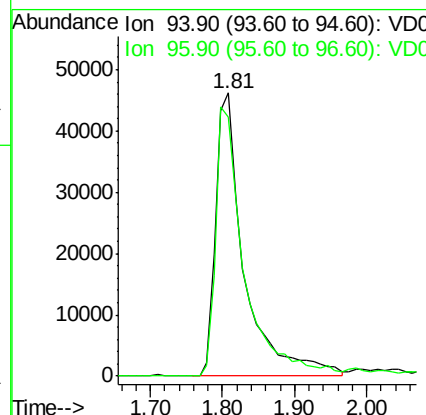
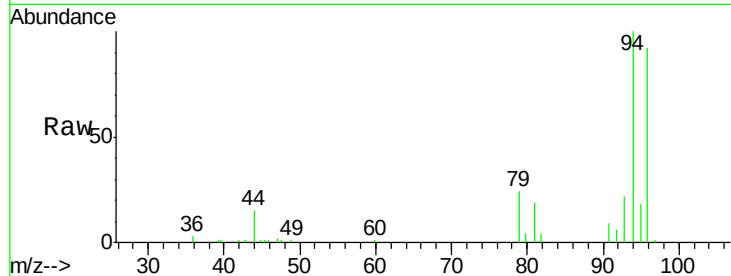




#5
Bromomethane
Concen: 55.07 ug/l
RT: 1.81 min Scan# 161
Delta R.T. 0.00 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

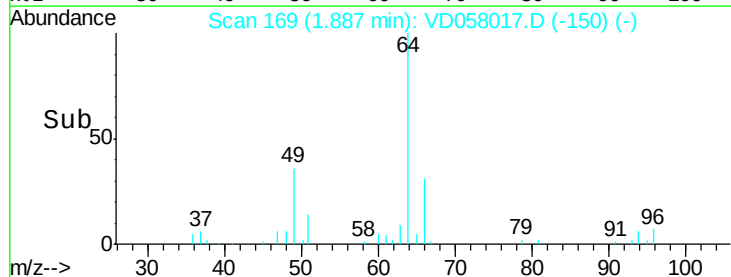
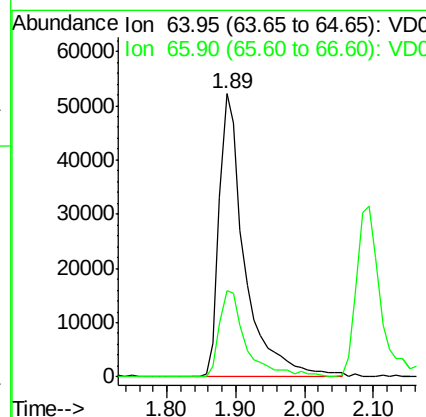
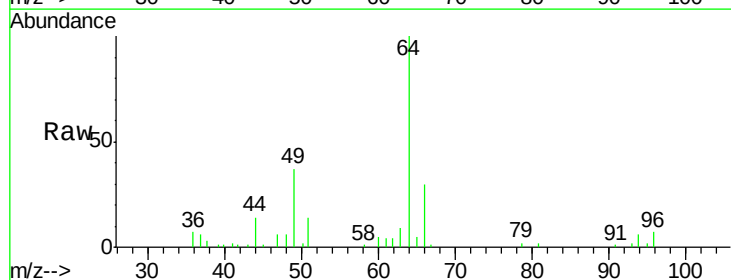
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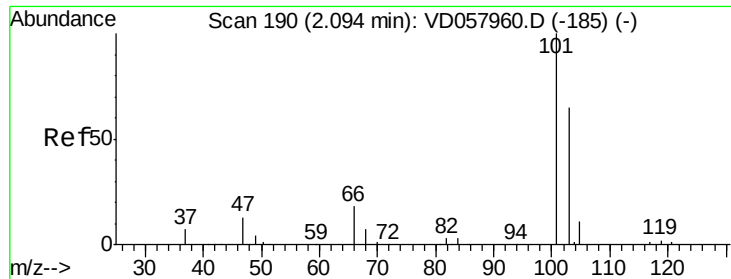
Tot Ion: 94 Resp: 126074
Ion Ratio Lower Upper
94 100
96 91.6 74.3 111.5



#6
Chloroethane
Concen: 58.10 ug/l
RT: 1.89 min Scan# 169
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion: 64 Resp: 133898
Ion Ratio Lower Upper
64 100
66 30.4 22.8 34.2





#7

Trichlorofluoromethane

Concen: 52.59 ug/l

RT: 2.09 min Scan# 190

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

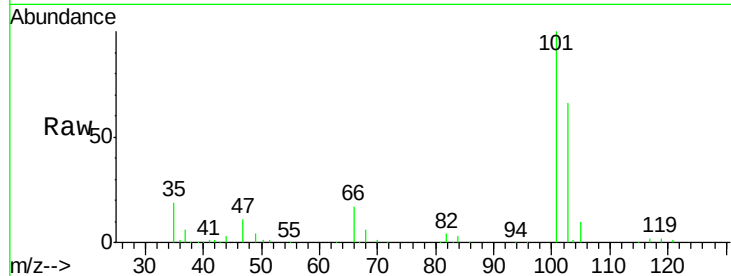
S39-0177MSD

Tot Ion:101 Resp: 419933

Ion Ratio Lower Upper

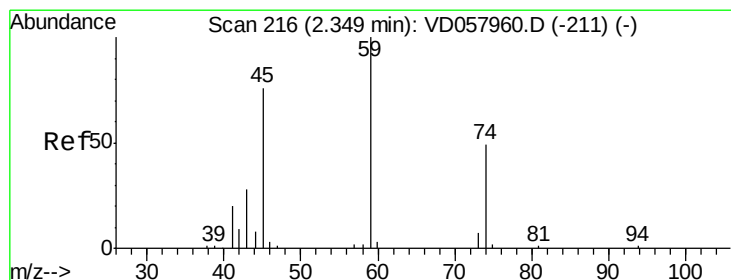
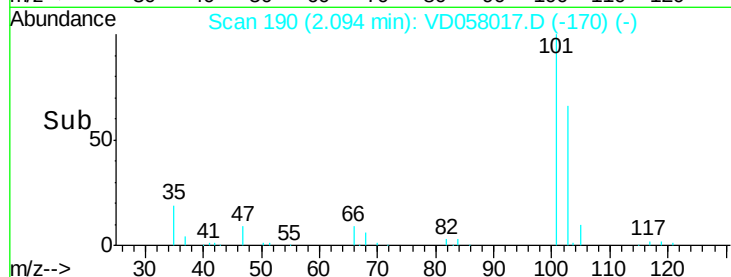
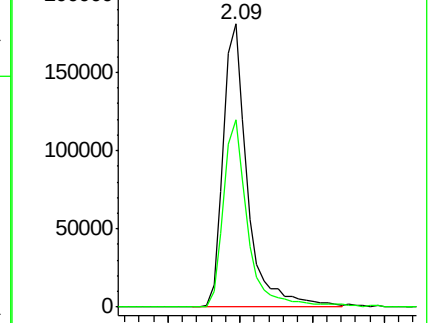
101 100

103 66.3 52.4 78.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 59.49 ug/l

RT: 2.35 min Scan# 216

Delta R.T. 0.00 min

Lab File: VD058017.D

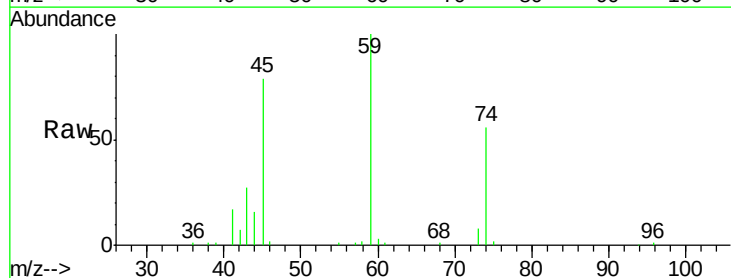
Acq: 8 Jun 2018 14:52

Tgt Ion: 74 Resp: 88243

Ion Ratio Lower Upper

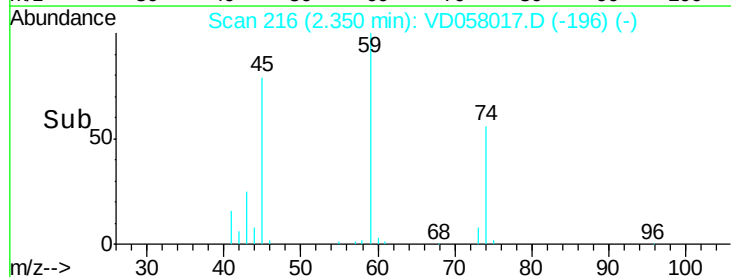
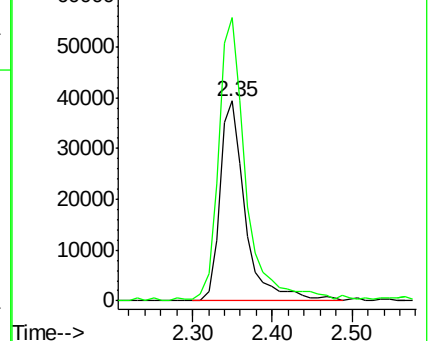
74 100

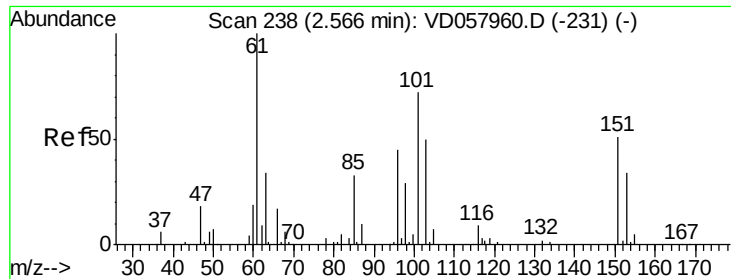
45 141.7 77.1 231.3



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: 48.73 ug/l

RT: 2.56 min Scan# 237

Delta R.T. -0.01 min

Lab File: VD058017.D

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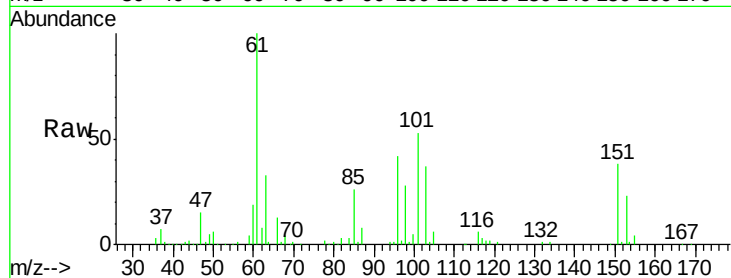
Tot Ion:101 Resp: 232064

Ion Ratio Lower Upper

101 100

85 50.1 37.3 55.9

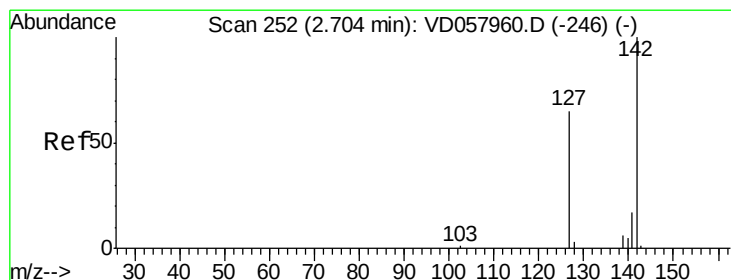
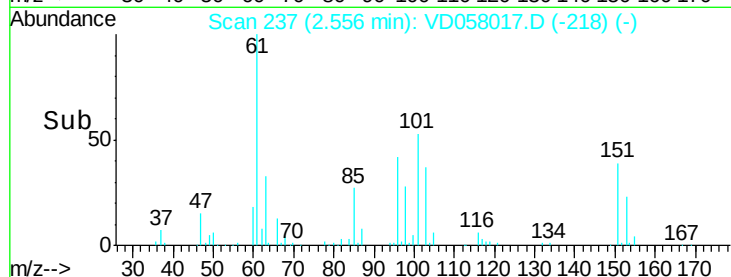
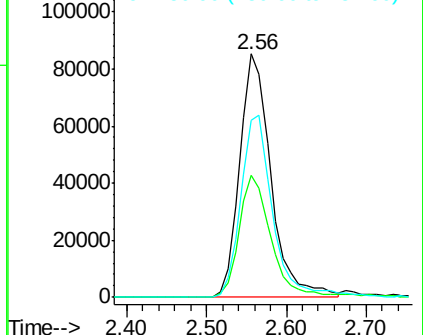
151 72.8 57.0 85.6



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: 52.02 ug/l

RT: 2.69 min Scan# 251

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

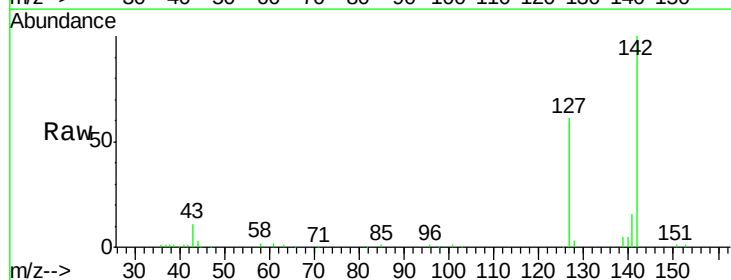
Tgt Ion:142 Resp: 319674

Ion Ratio Lower Upper

142 100

127 61.2 52.0 78.0

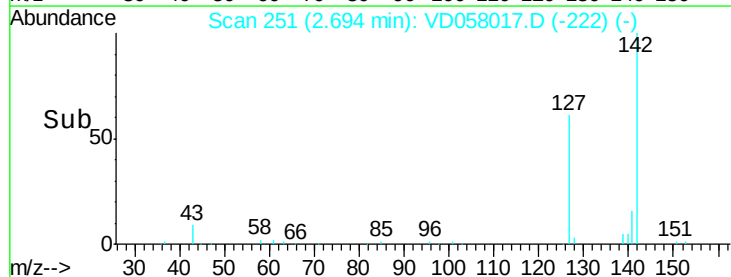
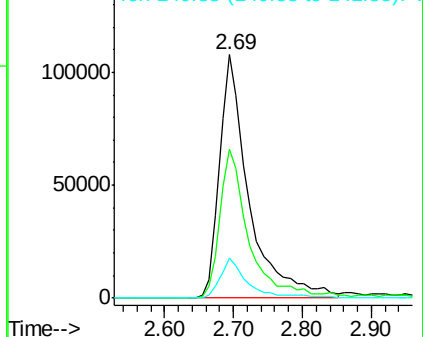
141 16.3 13.2 19.8

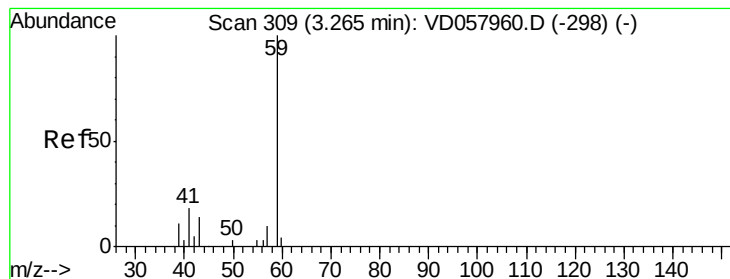


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



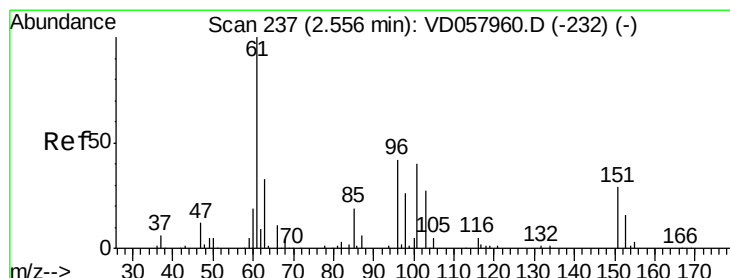
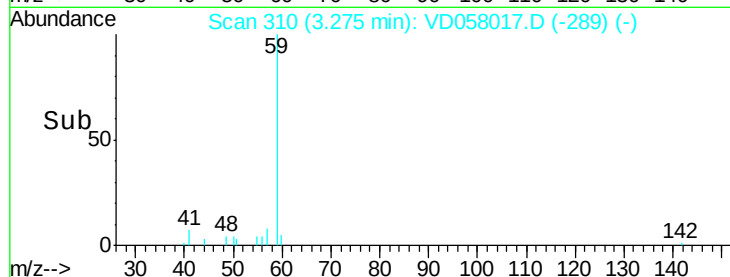
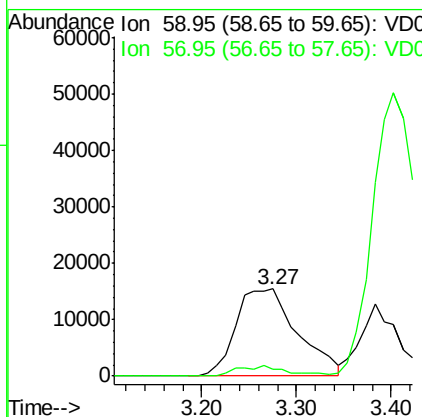
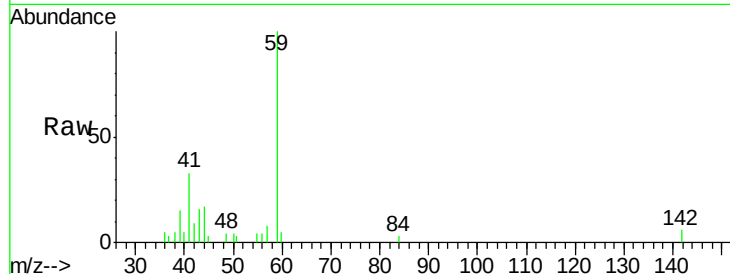


#11

Tert butyl alcohol
 Concen: 285.65 ug/l
 RT: 3.27 min Scan# 310
 Delta R.T. 0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

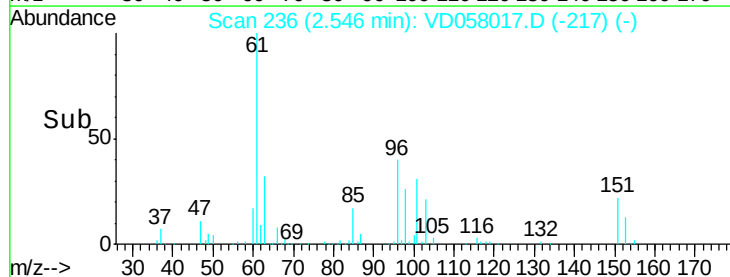
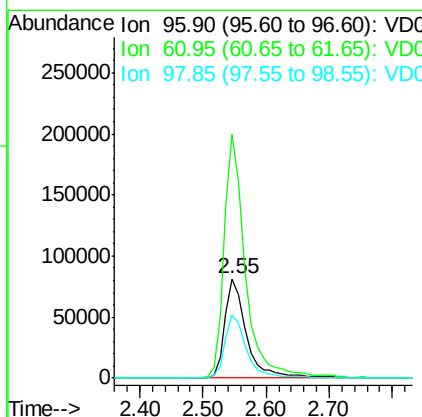
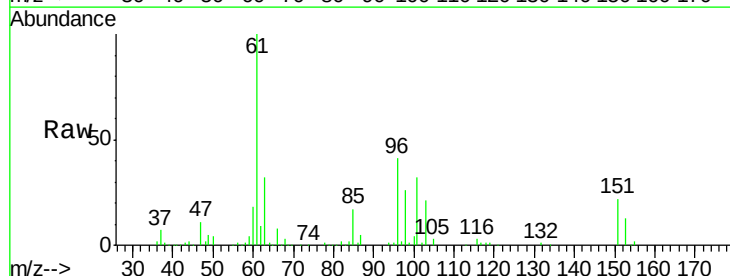
Tot Ion: 59 Resp: 69841
 Ion Ratio Lower Upper
 59 100
 57 8.1 7.8 11.6

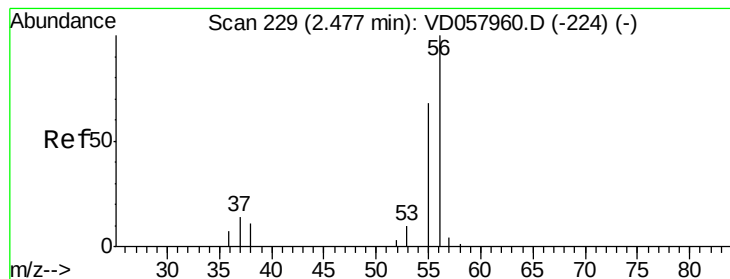


#12

1,1-Dichloroethene
 Concen: 53.14 ug/l
 RT: 2.55 min Scan# 236
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion: 96 Resp: 194570
 Ion Ratio Lower Upper
 96 100
 61 245.6 190.2 285.4
 98 63.7 49.6 74.4





#13

Acrolein

Concen: 190.06 ug/l

RT: 2.48 min Scan# 229

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

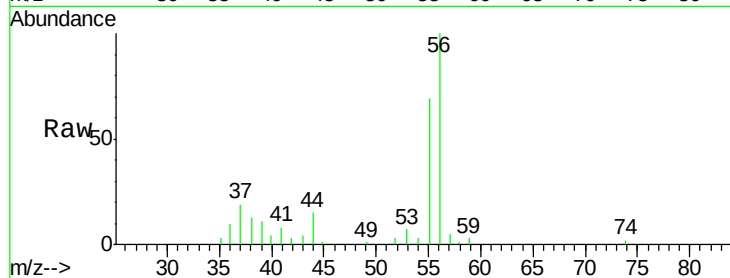
S39-0177MSD

Tot Ion: 56 Resp: 66550

Ion Ratio Lower Upper

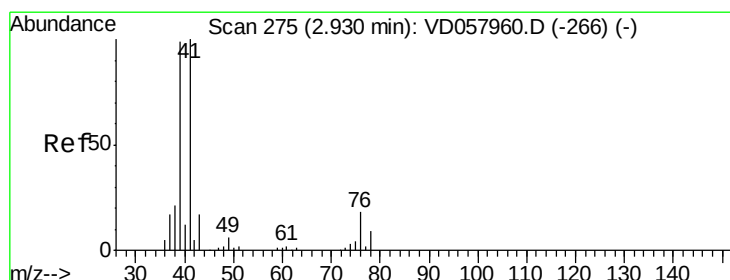
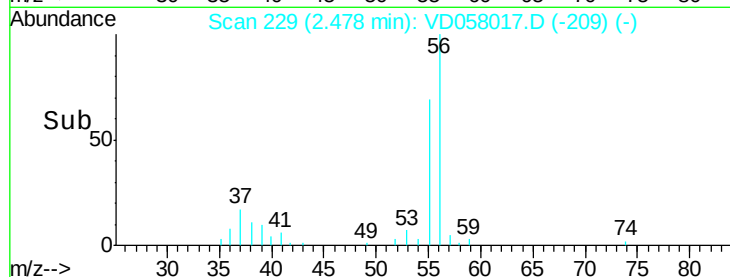
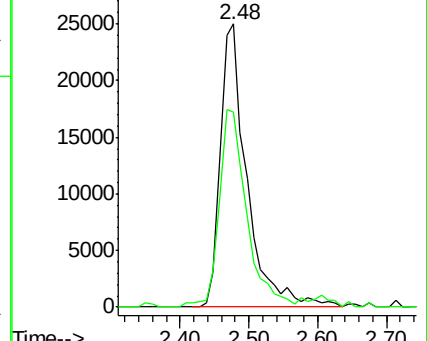
56 100

55 68.9 54.0 81.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 52.13 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

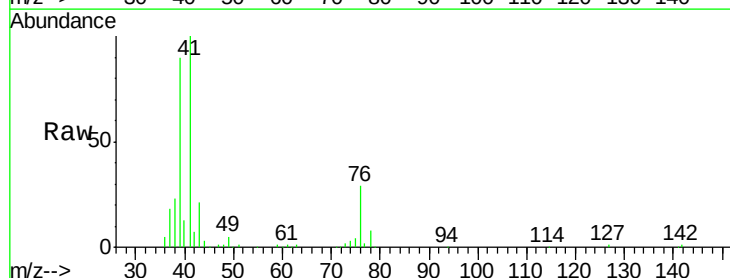
Tgt Ion: 41 Resp: 440284

Ion Ratio Lower Upper

41 100

39 90.3 79.5 119.3

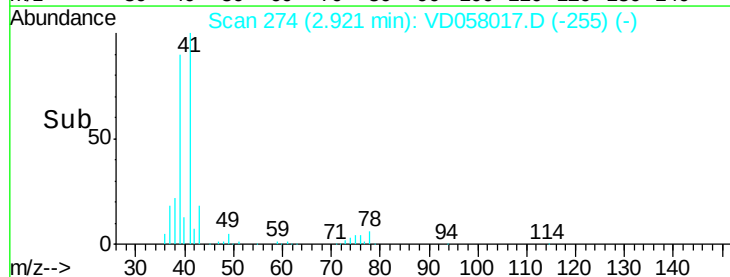
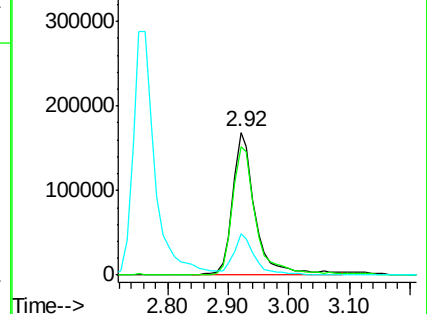
76 29.0 20.7 31.1

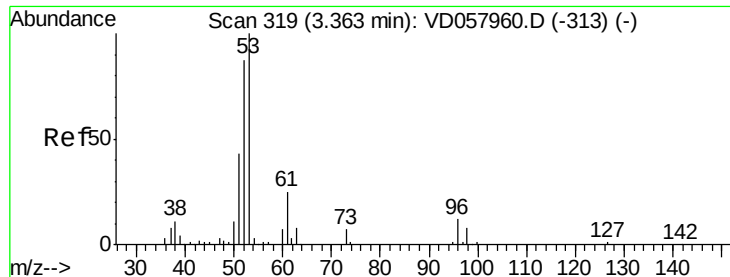


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 242.95 ug/l

RT: 3.36 min Scan# 319

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

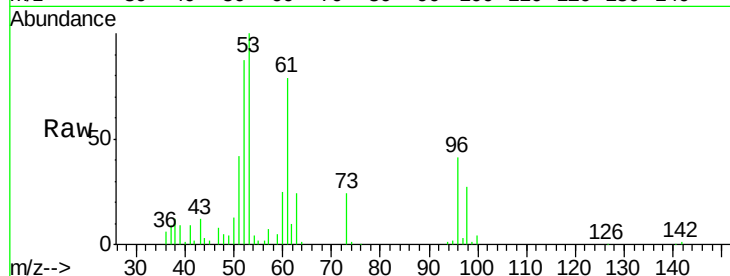
Tot Ion: 53 Resp: 347501

Ion Ratio Lower Upper

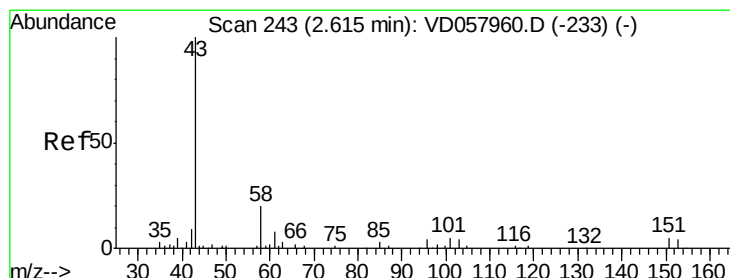
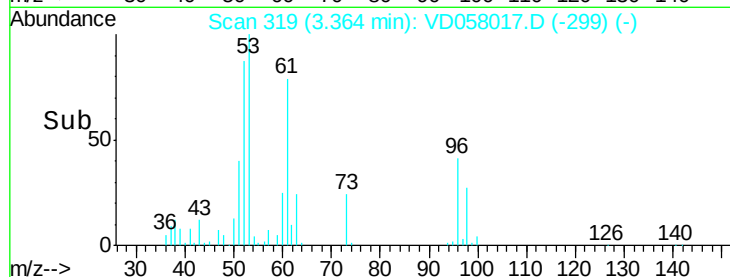
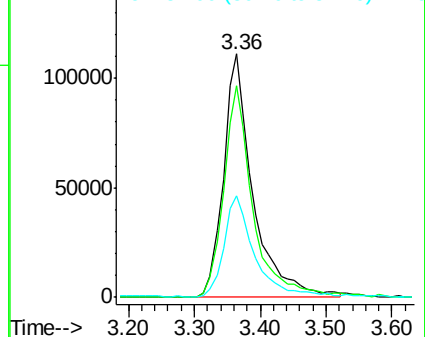
53 100

52 86.9 69.9 104.9

51 41.6 34.3 51.5



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 328.80 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD058017.D

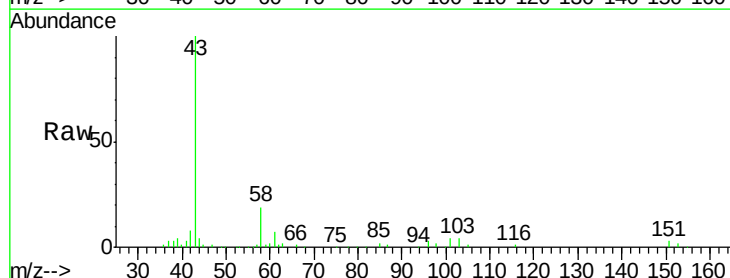
Acq: 8 Jun 2018 14:52

Tgt Ion: 43 Resp: 432357

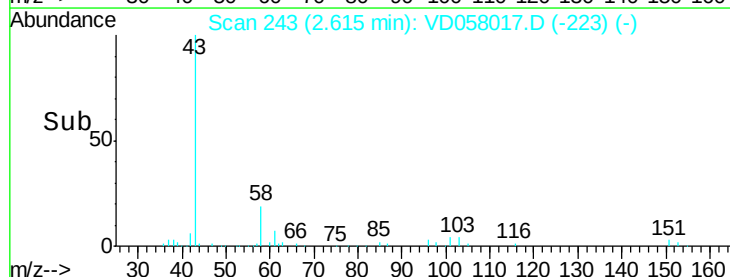
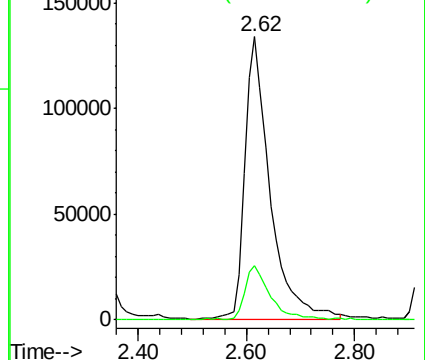
Ion Ratio Lower Upper

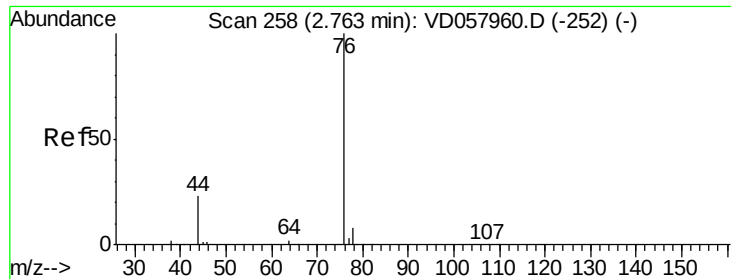
43 100

58 19.0 15.8 23.8



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





#17

Carbon Disulfide

Concen: 54.28 ug/l

RT: 2.76 min Scan# 258

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

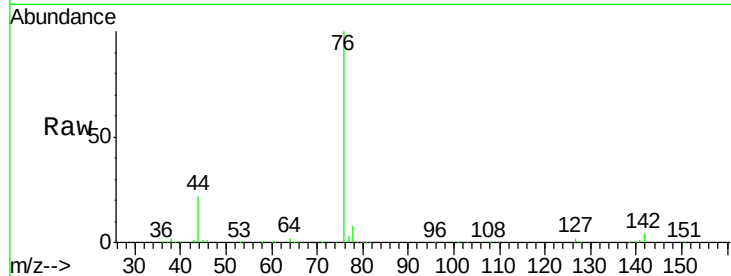
S39-0177MSD

Tot Ion: 76 Resp: 719919

Ion Ratio Lower Upper

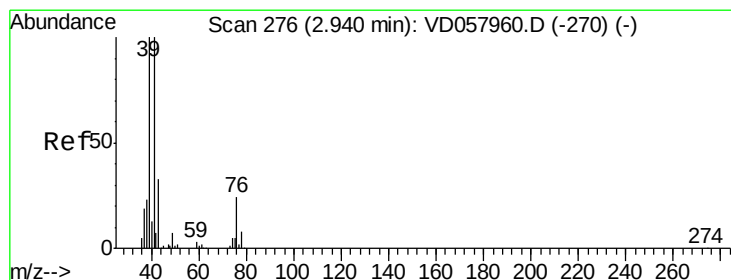
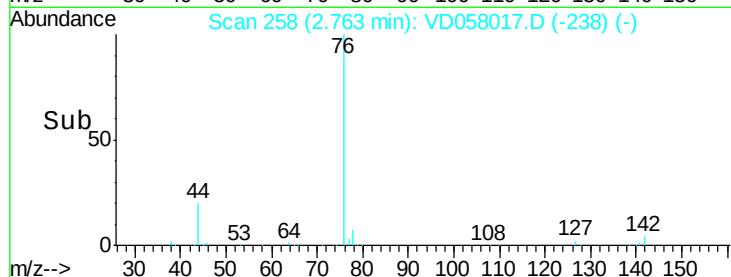
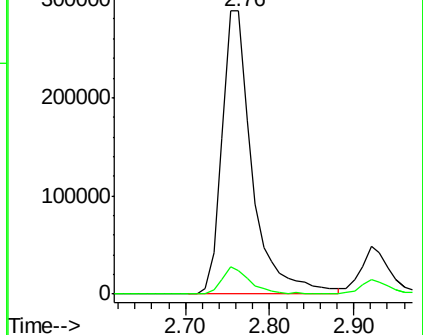
76 100

78 8.3 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 64.90 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.00 min

Lab File: VD058017.D

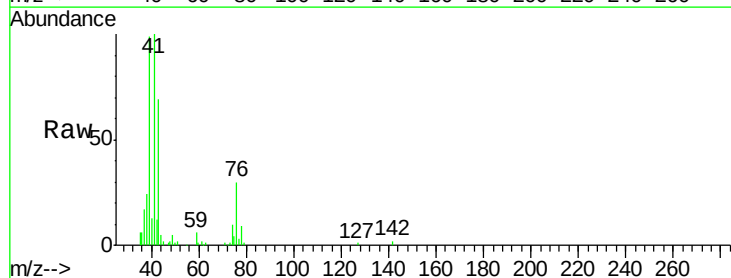
Acq: 8 Jun 2018 14:52

Tgt Ion: 43 Resp: 165084

Ion Ratio Lower Upper

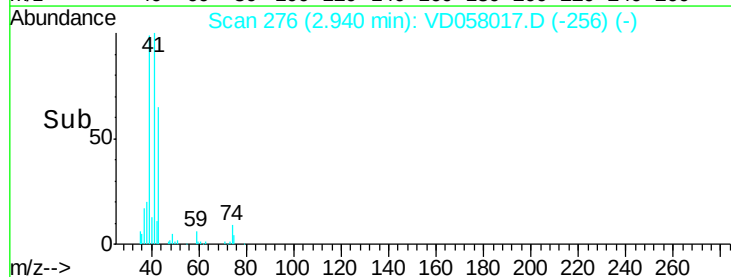
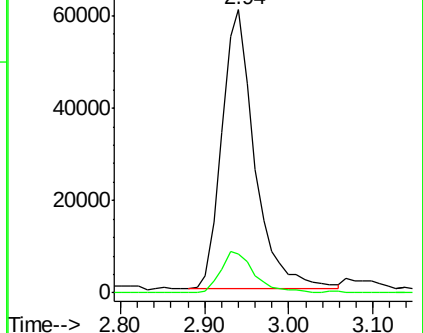
43 100

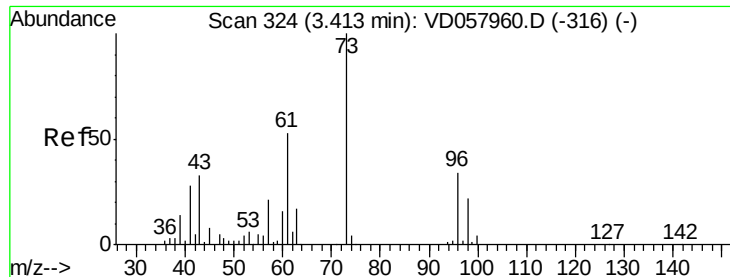
74 14.0 11.2 16.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

Methyl tert-butyl Ether

Concen: 51.29 ug/l

RT: 3.40 min Scan# 323

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleID :

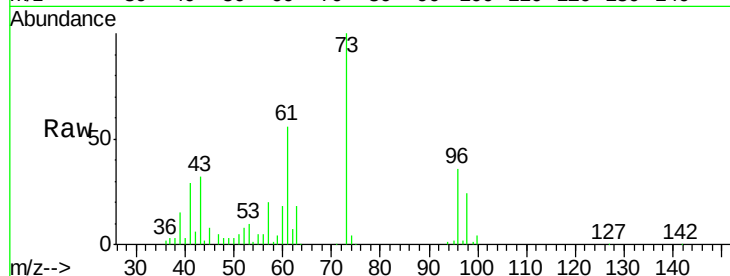
S39-0177MSD

Tot Ion: 73 Resp: 826243

Ion Ratio Lower Upper

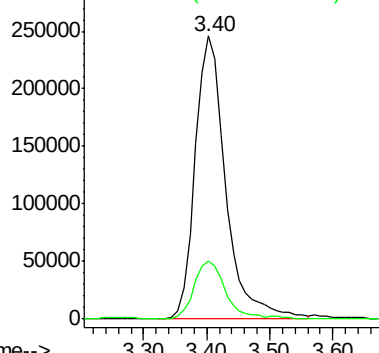
73 100

57 20.4 16.7 25.1

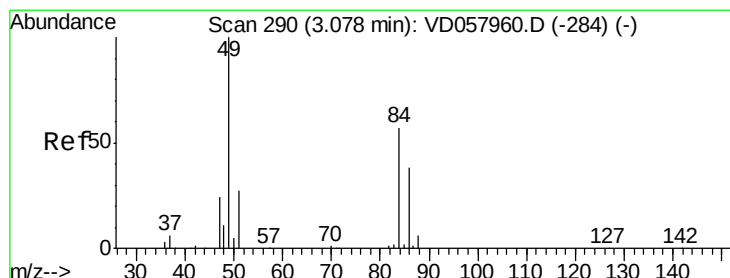
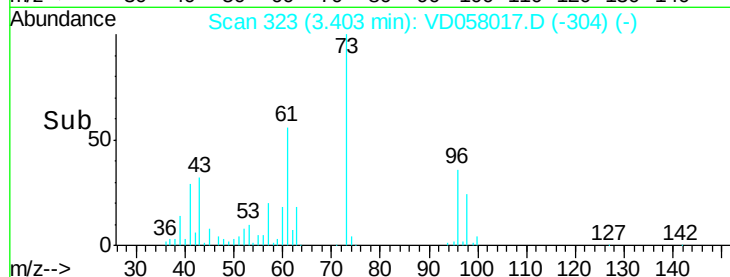


Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



Time-->



#20

Methylene Chloride

Concen: 54.60 ug/l

RT: 3.07 min Scan# 289

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Tgt Ion: 84 Resp: 195476

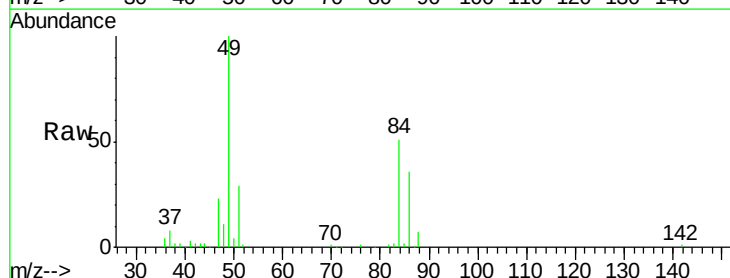
Ion Ratio Lower Upper

84 100

49 197.2 141.4 212.0

51 56.5 38.3 57.5

86 71.8 52.9 79.3

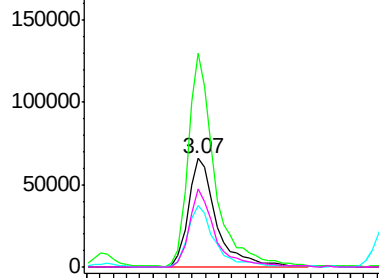


Abundance Ion 83.95 (83.65 to 84.65): VDC

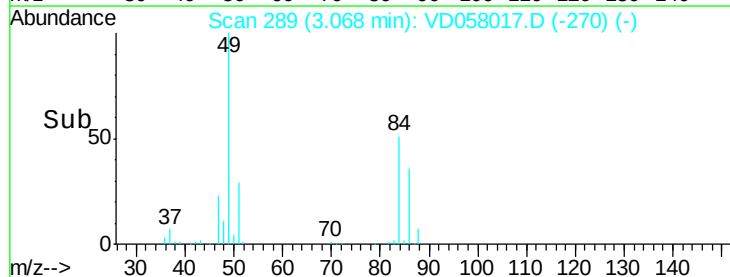
Ion 48.90 (48.60 to 49.60): VDC

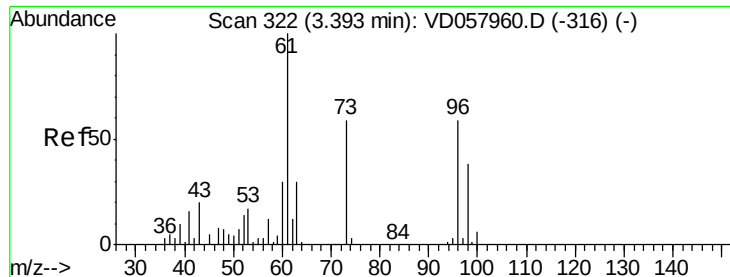
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



Time-->





#21

trans-1,2-Dichloroethene

Concen: 50.15 ug/l

RT: 3.38 min Scan# 321

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

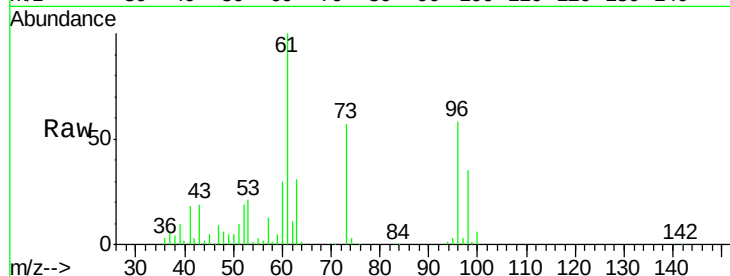
Tot Ion: 96 Resp: 408948

Ion Ratio Lower Upper

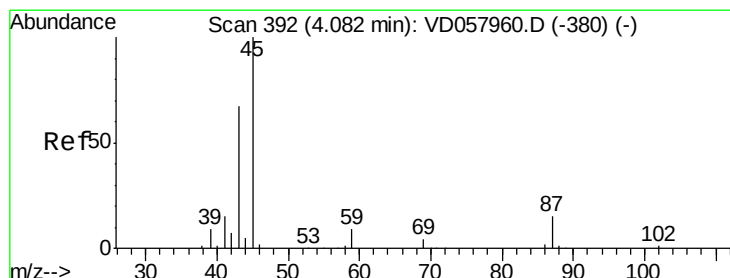
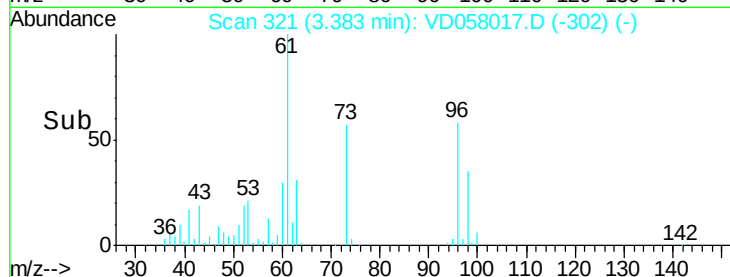
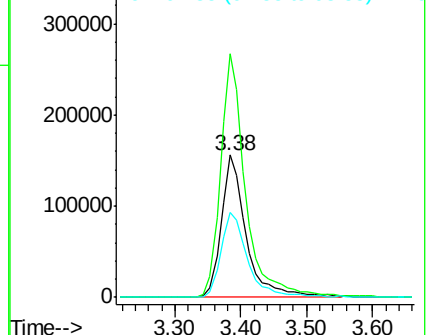
96 100

61 171.0 135.2 202.8

98 60.0 51.7 77.5



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: 50.86 ug/l

RT: 4.07 min Scan# 391

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Tgt Ion: 45 Resp: 1701939

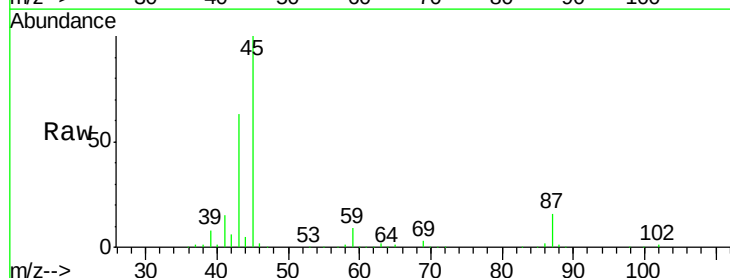
Ion Ratio Lower Upper

45 100

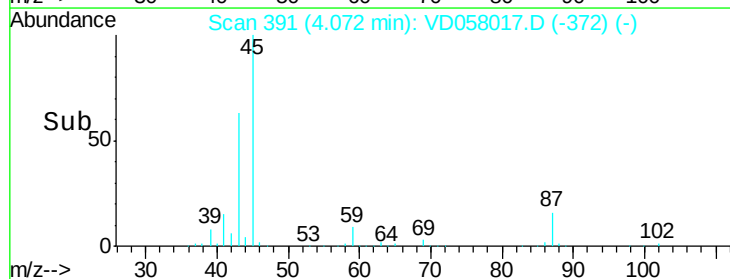
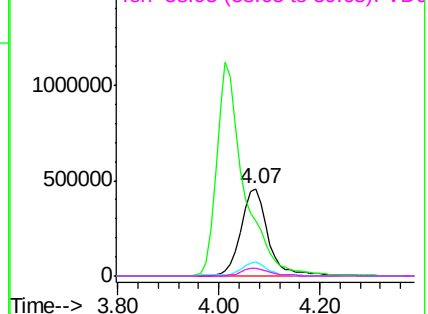
43 63.5 53.8 80.8

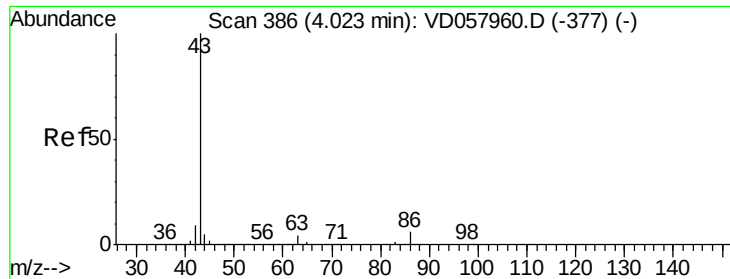
87 16.1 12.5 18.7

59 8.5 7.3 10.9



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: 245.77 ug/l

RT: 4.01 min Scan# 385

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

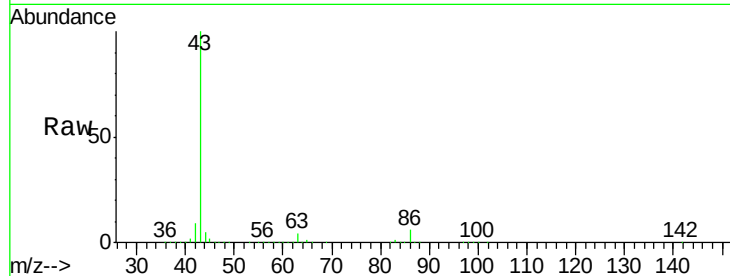
S39-0177MSD

Tot Ion: 43 Resp: 4249001

Ion Ratio Lower Upper

43 100

86 5.6 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

4.01

1200000

1000000

800000

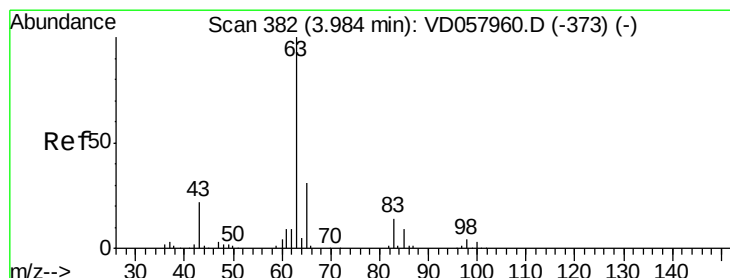
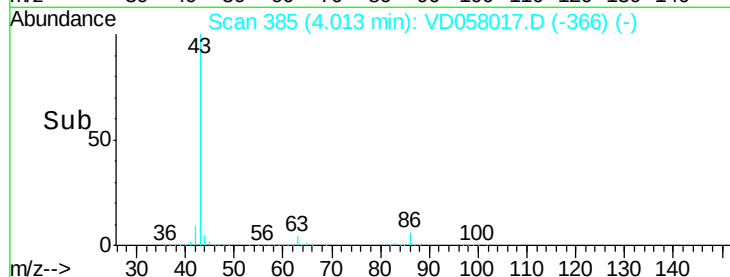
600000

400000

200000

0

Time--> 3.80 3.90 4.00 4.10 4.20



#24

1,1-Dichloroethane

Concen: 50.72 ug/l

RT: 3.97 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

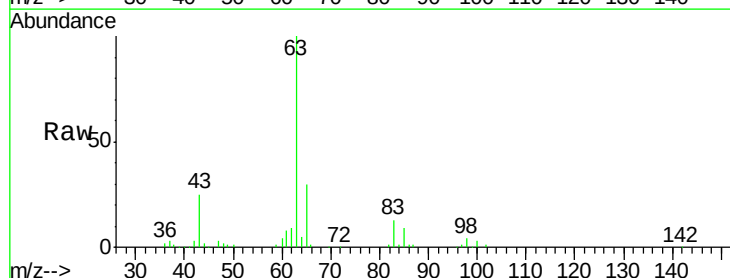
Tgt Ion: 63 Resp: 932724

Ion Ratio Lower Upper

63 100

98 3.9 2.0 5.8

100 2.8 1.4 4.2



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

3.97

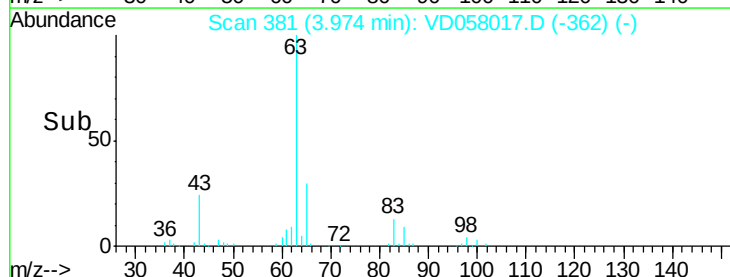
300000

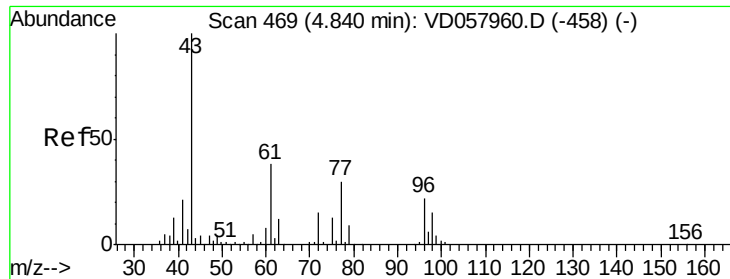
200000

100000

0

Time--> 3.80 3.90 4.00 4.10 4.20





#25

2-Butanone

Concen: 272.61 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

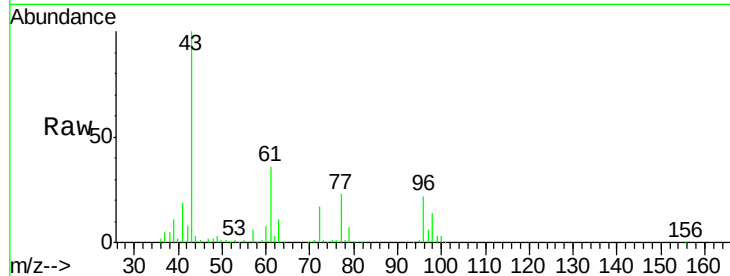
S39-0177MSD

Tot Ion: 43 Resp: 814652

Ion Ratio Lower Upper

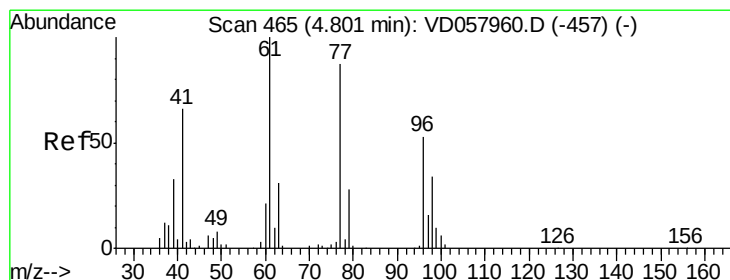
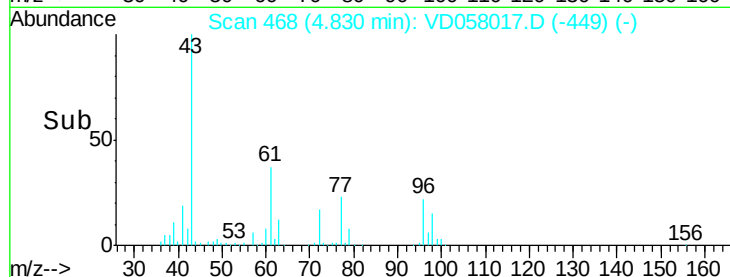
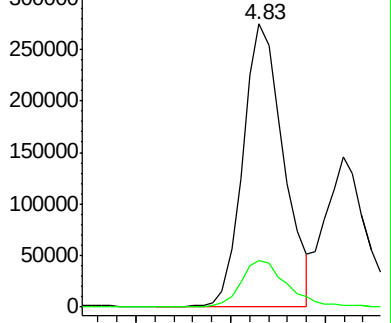
43 100

72 16.5 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 50.10 ug/l

RT: 4.79 min Scan# 464

Delta R.T. -0.01 min

Lab File: VD058017.D

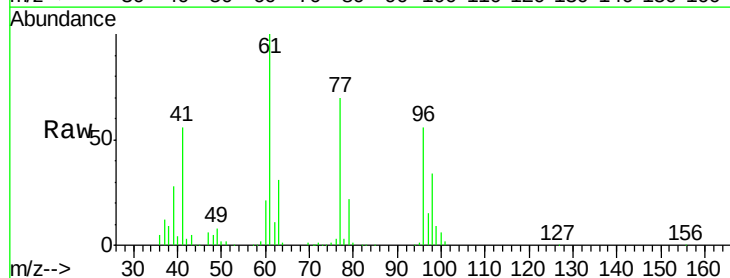
Acq: 8 Jun 2018 14:52

Tgt Ion: 77 Resp: 758995

Ion Ratio Lower Upper

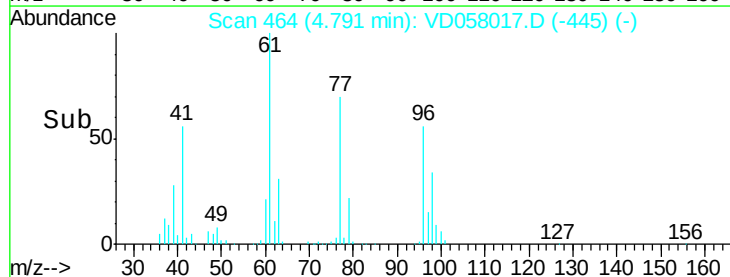
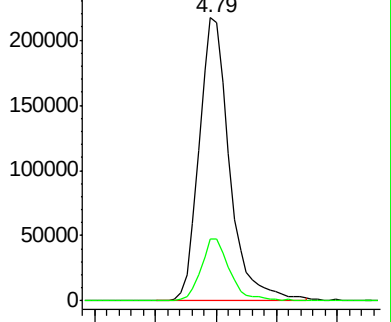
77 100

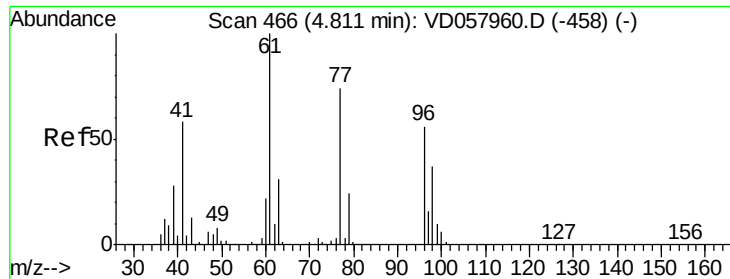
97 21.7 9.2 27.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

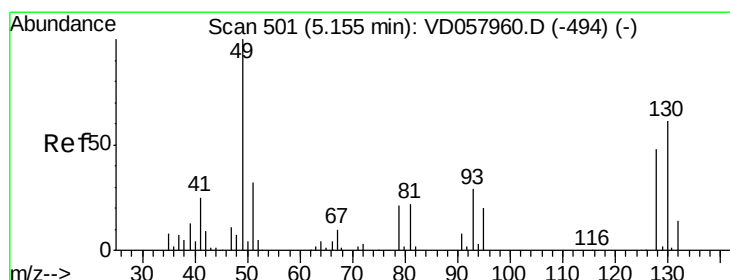
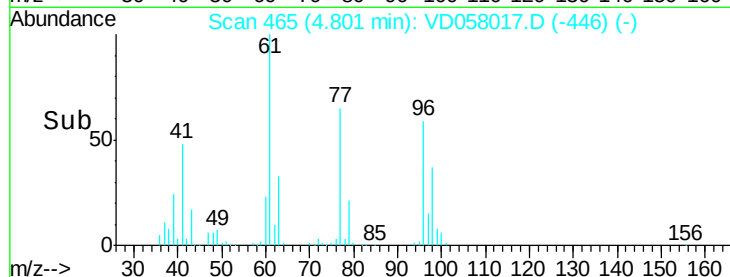
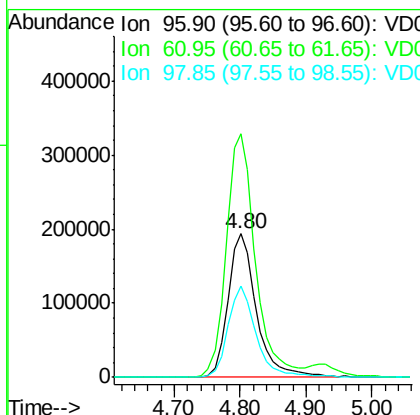
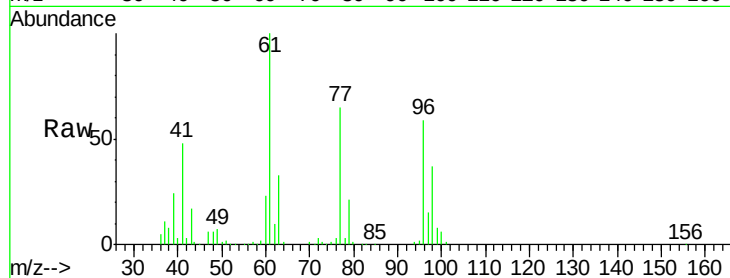




#27
 cis-1,2-Dichloroethene
 Concen: 60.36 ug/l
 RT: 4.80 min Scan# 465
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

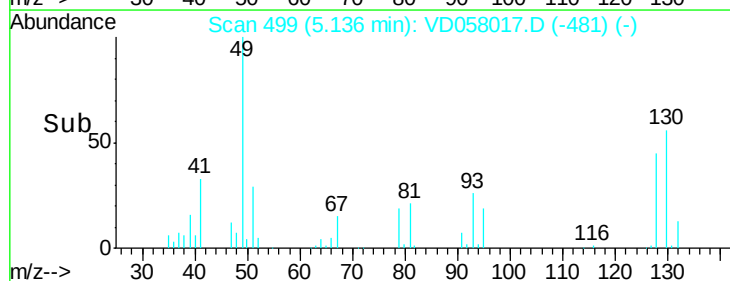
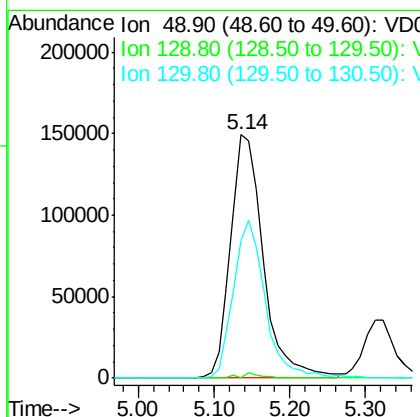
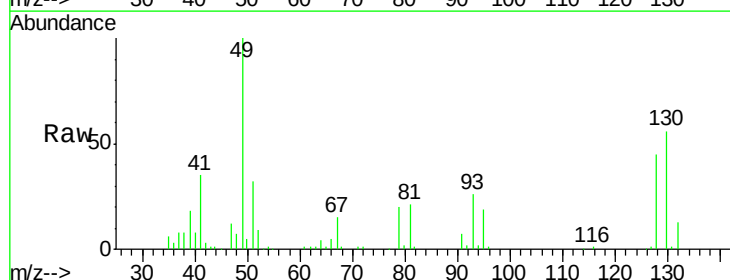
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

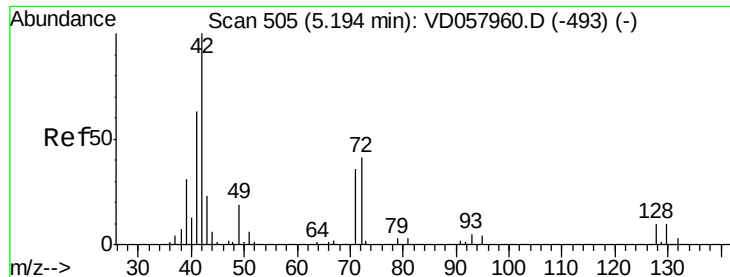
Tot Ion: 96 Resp: 583833
 Ion Ratio Lower Upper
 96 100
 61 170.1 0.0 355.0
 98 63.8 0.0 129.6



#28
 Bromochloromethane
 Concen: 56.18 ug/l
 RT: 5.14 min Scan# 499
 Delta R.T. -0.02 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion: 49 Resp: 447120
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 56.2 48.8 73.2





#29

Tetrahydrofuran

Concen: 278.13 ug/l

RT: 5.17 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

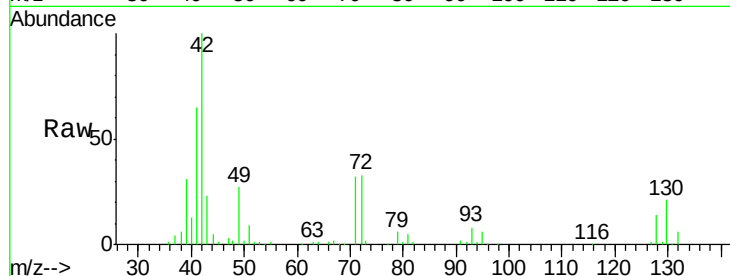
Tot Ion: 42 Resp: 435693

Ion Ratio Lower Upper

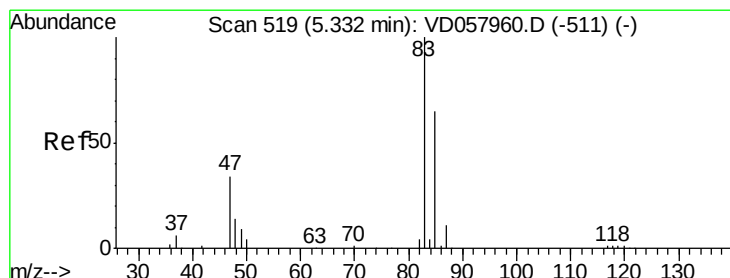
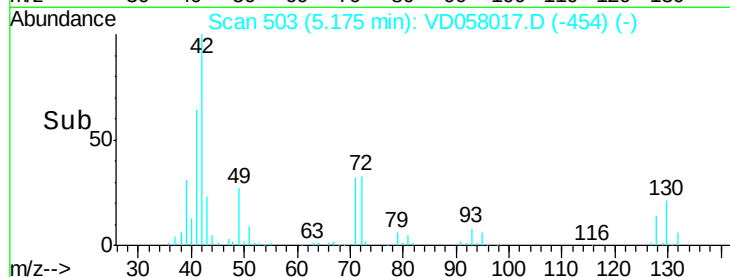
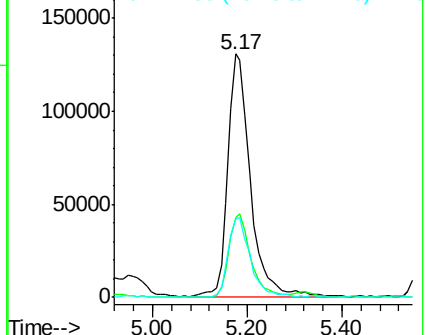
42 100

72 32.9 28.5 42.7

71 32.0 27.9 41.9



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 51.06 ug/l

RT: 5.31 min Scan# 517

Delta R.T. -0.02 min

Lab File: VD058017.D

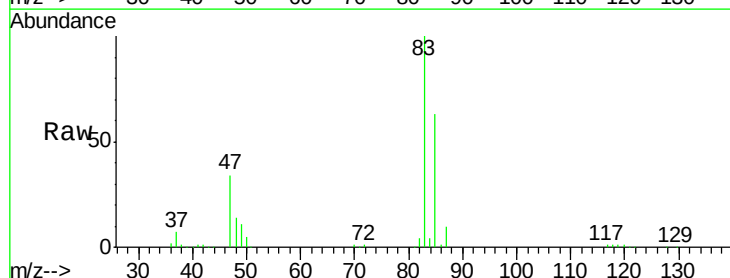
Acq: 8 Jun 2018 14:52

Tgt Ion: 83 Resp: 945041

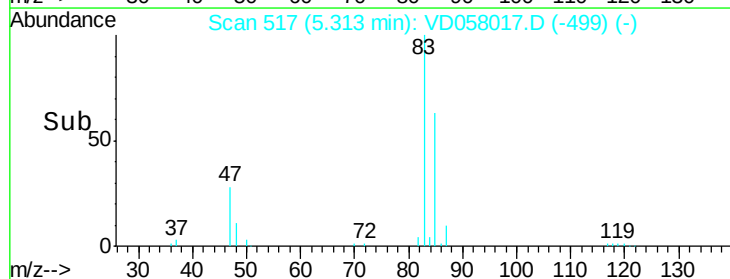
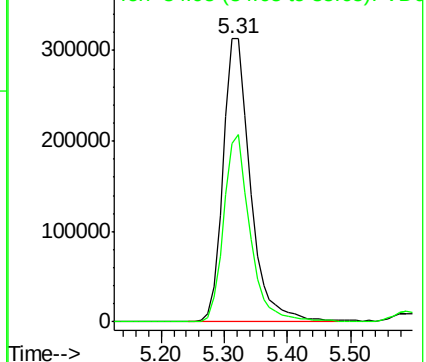
Ion Ratio Lower Upper

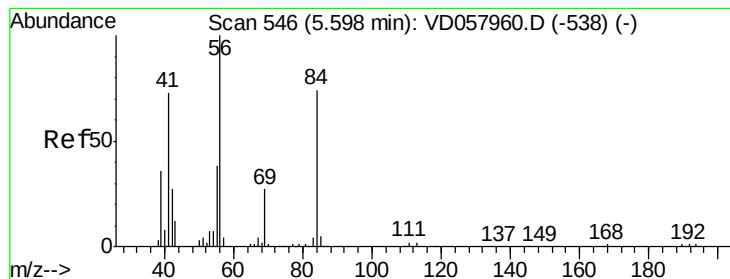
83 100

85 63.1 51.6 77.4



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 45.95 ug/l

RT: 5.59 min Scan# 545

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

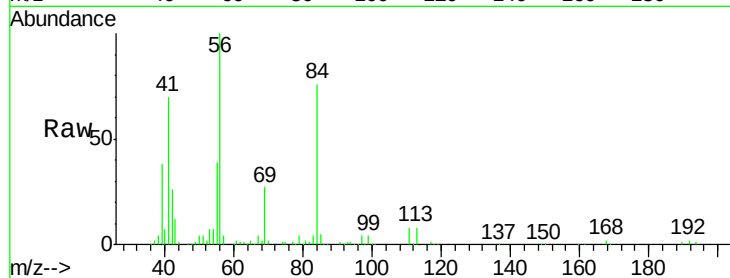
Tot Ion: 56 Resp: 729307

Ion Ratio Lower Upper

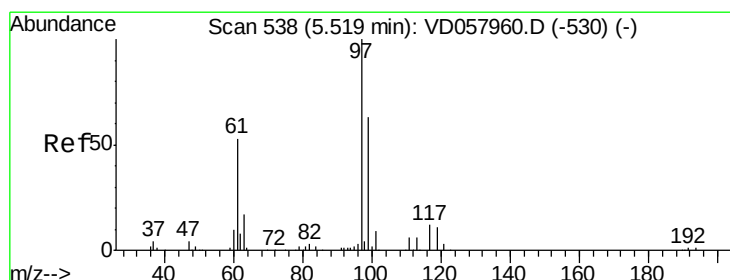
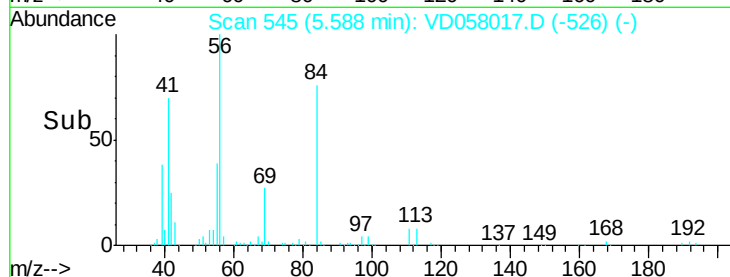
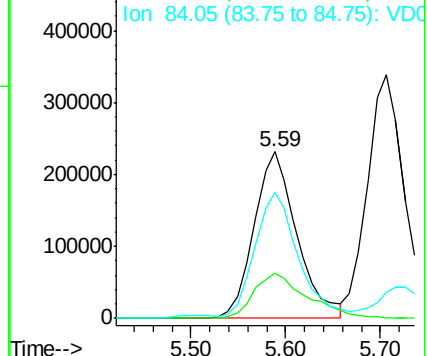
56 100

69 26.9 21.5 32.3

84 75.9 61.0 91.6



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: 51.32 ug/l

RT: 5.50 min Scan# 536

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

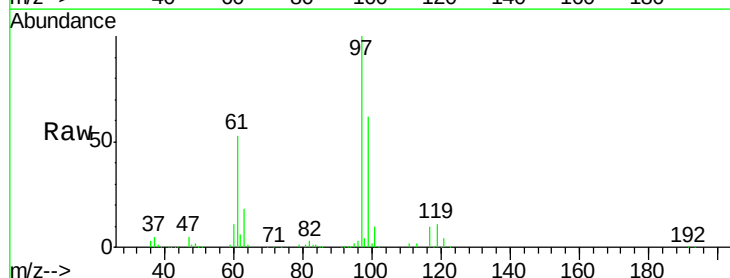
Tgt Ion: 97 Resp: 795342

Ion Ratio Lower Upper

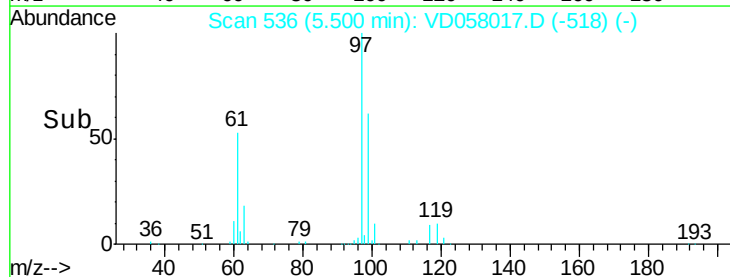
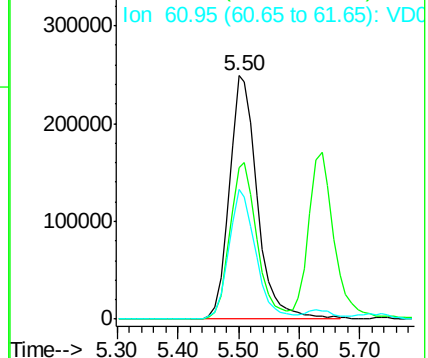
97 100

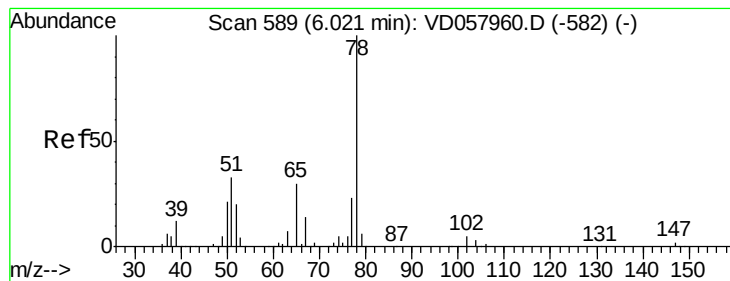
99 62.1 50.1 75.1

61 53.4 42.2 63.4



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: 51.32 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

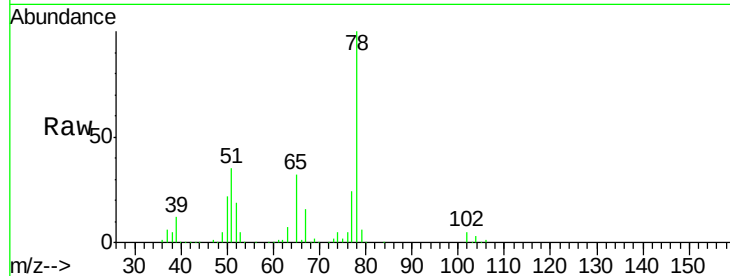
S39-0177MSD

Tot Ion: 65 Resp: 446190

Ion Ratio Lower Upper

65 100

67 48.2 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.01

150000

100000

50000

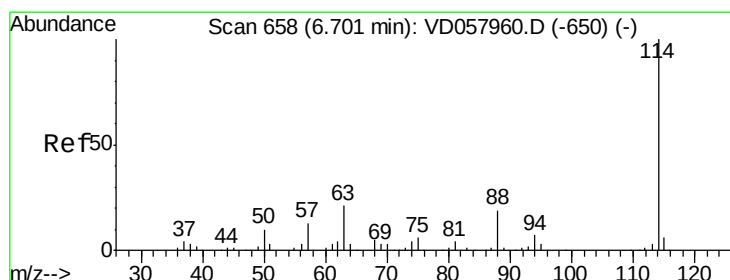
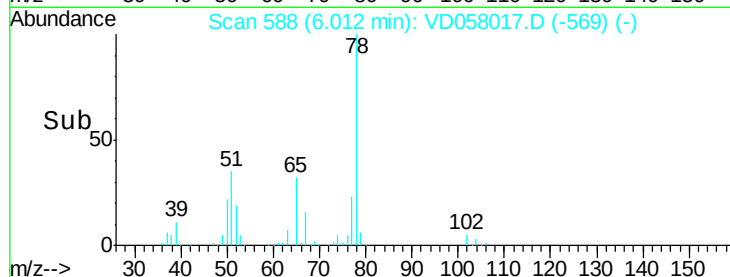
0

Time-->

5.90

6.00

6.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.68 min Scan# 656

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

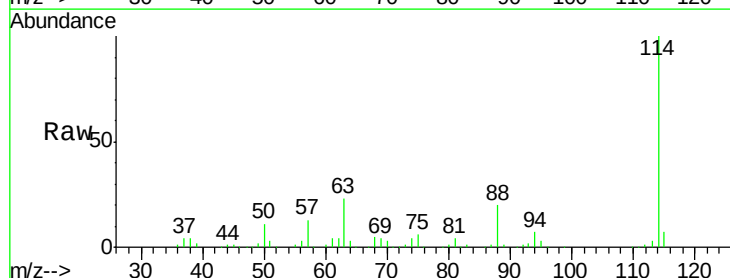
Tgt Ion: 114 Resp: 1156082

Ion Ratio Lower Upper

114 100

63 22.9 0.0 42.8

88 19.8 0.0 37.8



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

6.68

600000

500000

400000

300000

200000

100000

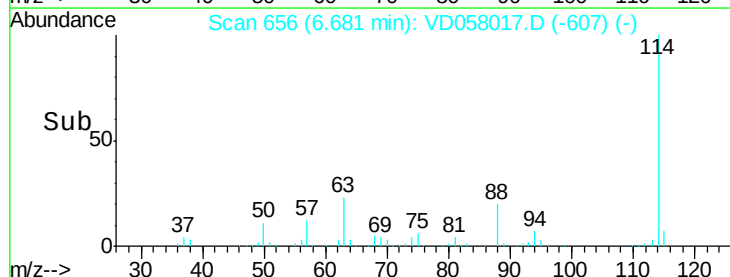
0

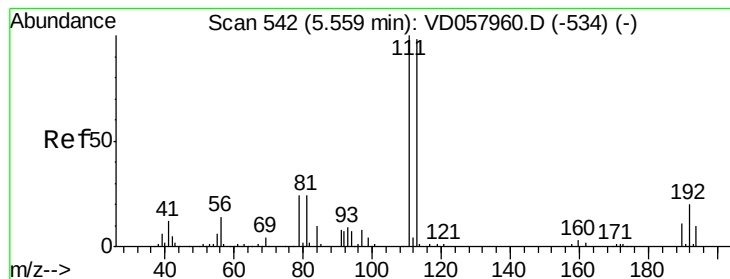
Time-->

6.60

6.80

7.00





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

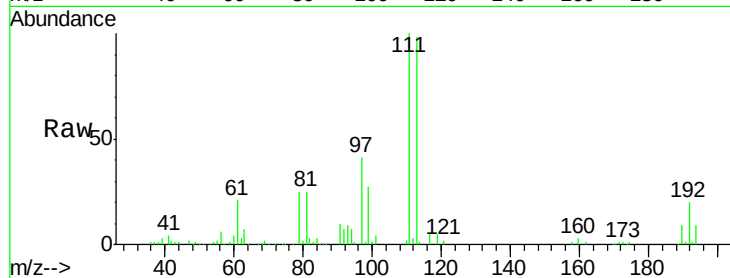
Tot Ion:113 Resp: 480722

Ion Ratio Lower Upper

113 100

111 102.3 81.5 122.3

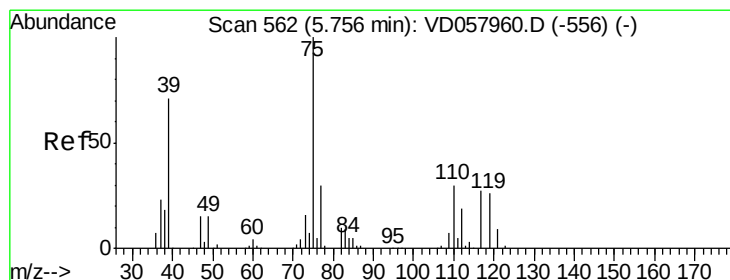
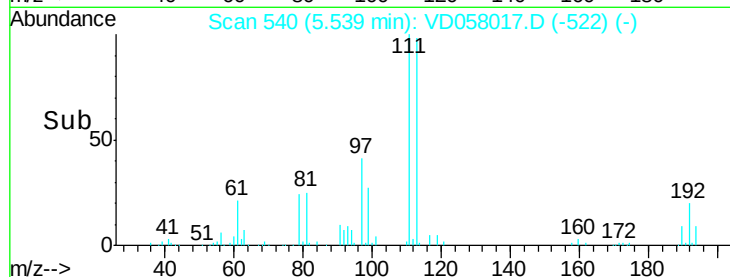
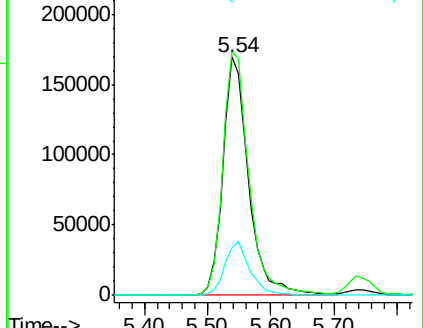
192 20.2 16.4 24.6



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 52.42 ug/l

RT: 5.74 min Scan# 560

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

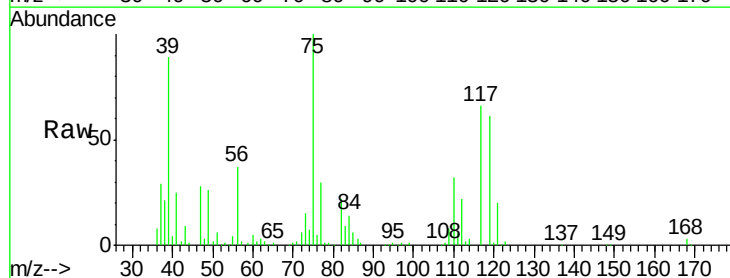
Tgt Ion: 75 Resp: 667658

Ion Ratio Lower Upper

75 100

110 32.1 14.8 44.3

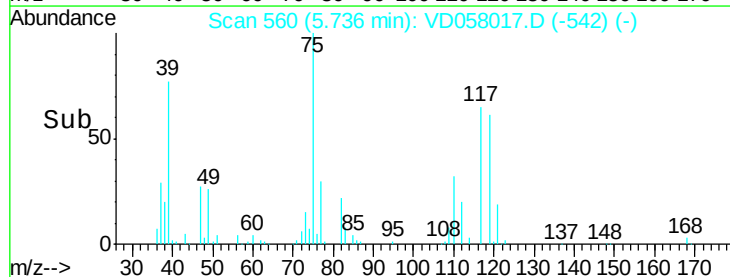
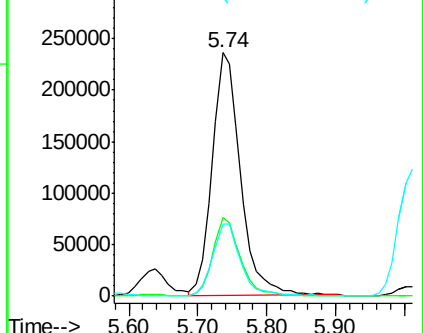
77 29.8 23.9 35.9

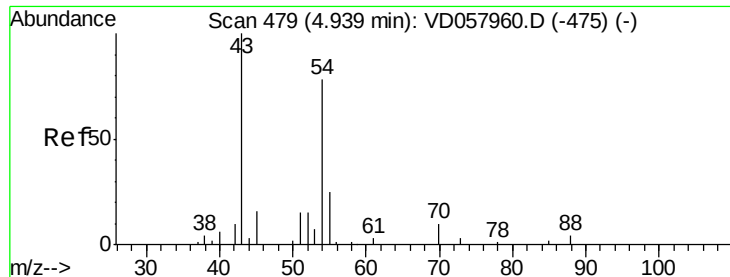


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

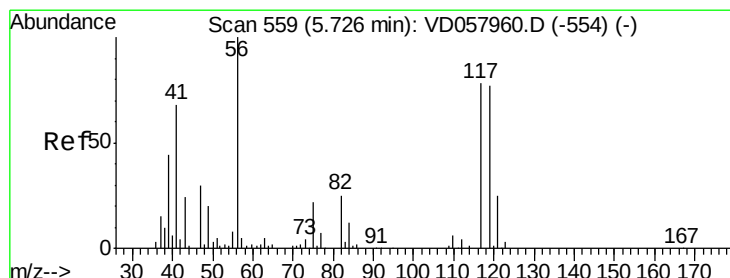
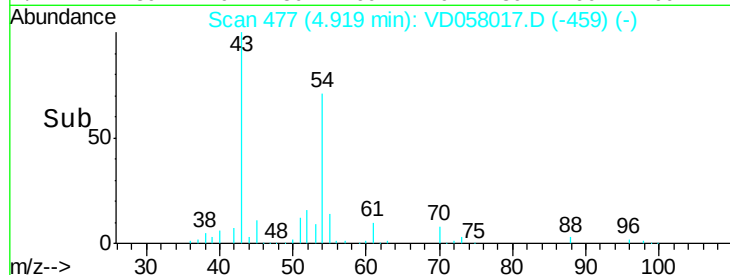
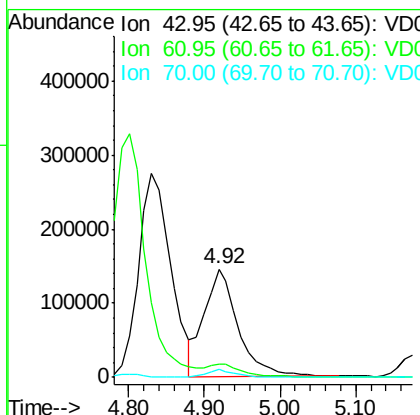
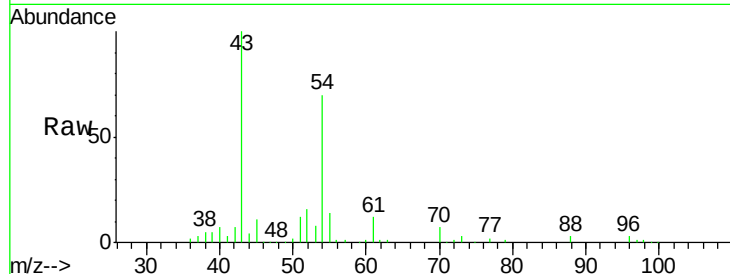




#37
Ethyl Acetate
Concen: 64.51 ug/l
RT: 4.92 min Scan# 477
Delta R.T. -0.02 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

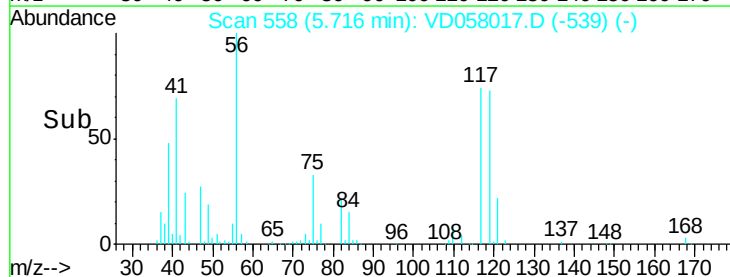
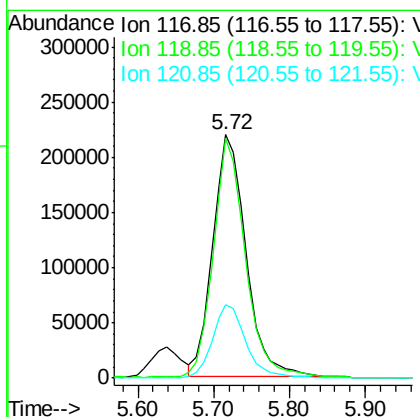
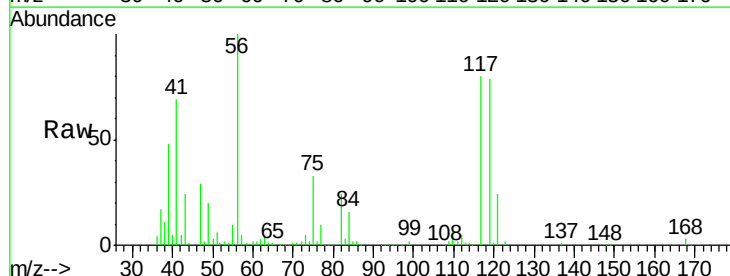
Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

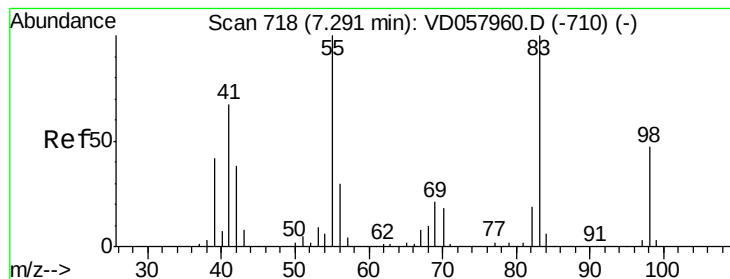
Tot Ion: 43 Resp: 448371
Ion Ratio Lower Upper
43 100
61 12.2 9.9 14.9
70 7.5 5.7 8.5



#38
Carbon Tetrachloride
Concen: 53.58 ug/l
RT: 5.72 min Scan# 558
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion: 117 Resp: 672515
Ion Ratio Lower Upper
117 100
119 98.4 76.1 114.1
121 30.2 24.9 37.3





#39

Methylvlcyclohexane

Concen: 43.43 ug/l

RT: 7.27 min Scan# 716

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

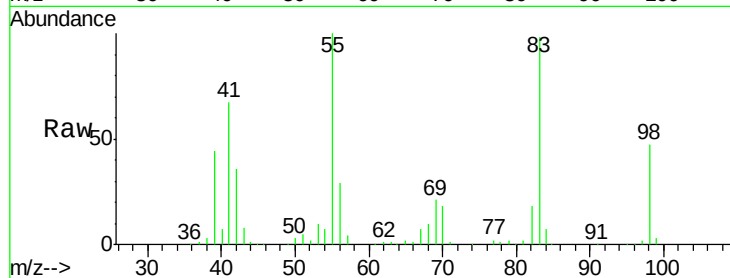
Tot Ion: 83 Resp: 548299

Ion Ratio Lower Upper

83 100

55 102.4 80.3 120.5

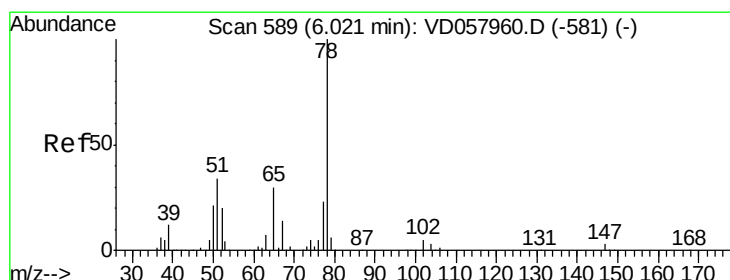
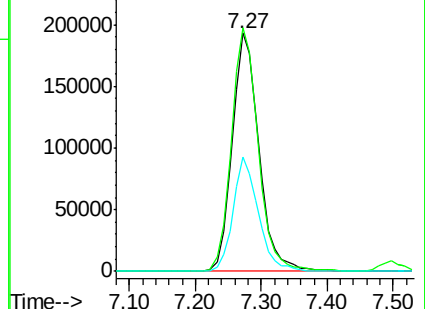
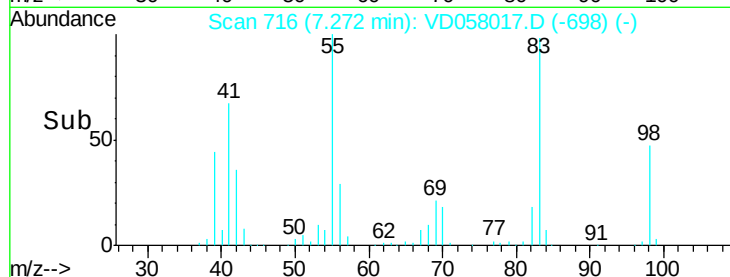
98 47.9 38.0 57.0



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 51.76 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058017.D

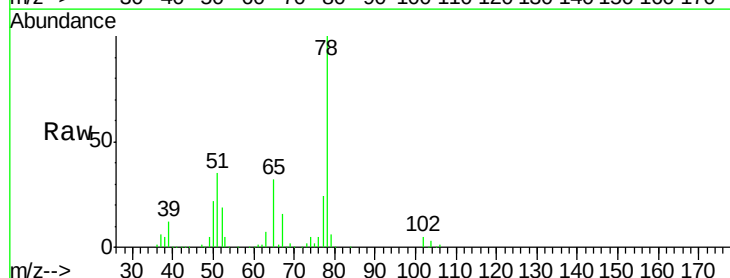
Acq: 8 Jun 2018 14:52

Tgt Ion: 78 Resp: 1540156

Ion Ratio Lower Upper

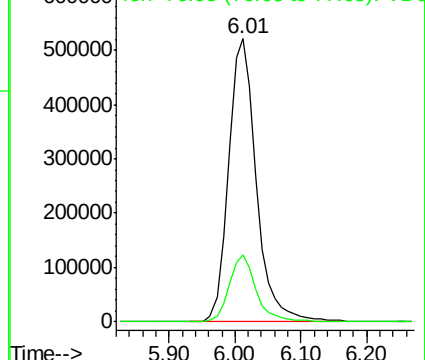
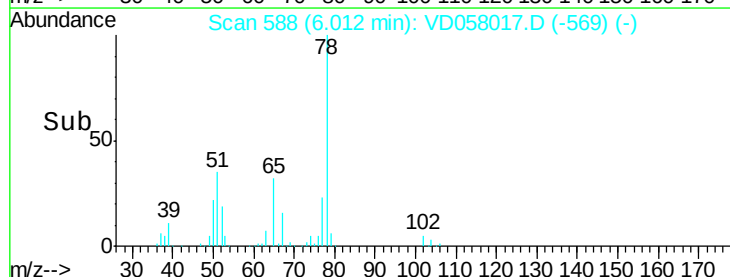
78 100

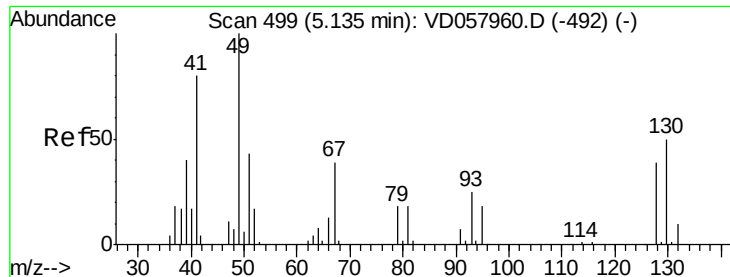
77 23.7 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

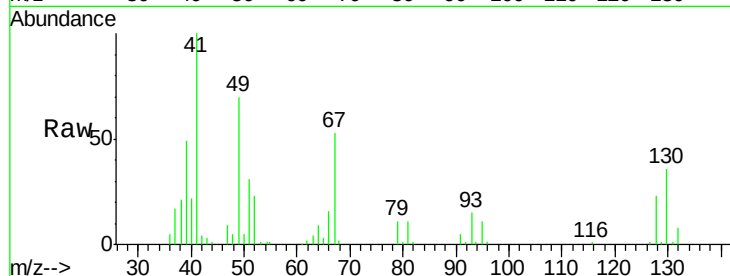




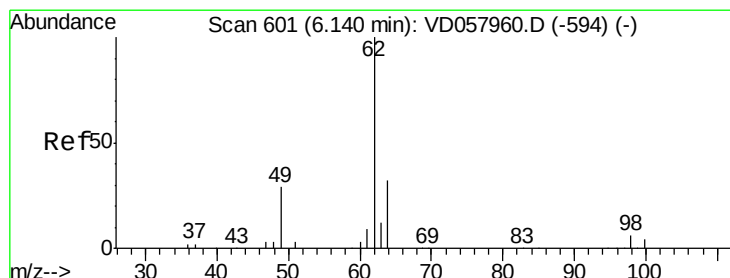
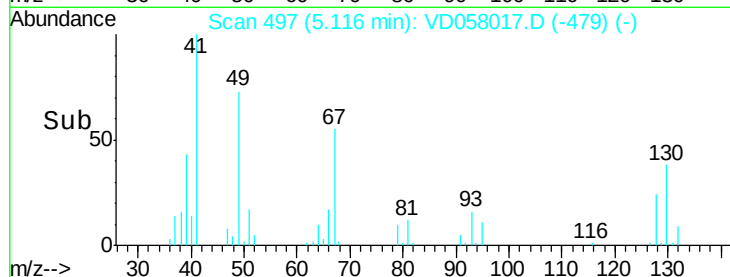
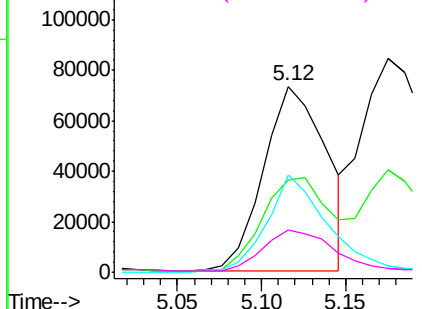
#41
Methacrylonitrile
Concen: 59.62 ug/l
RT: 5.12 min Scan# 497
Delta R.T. -0.02 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

Tot Ion: 41 Resp: 189450
Ion Ratio Lower Upper
41 100
39 49.3 40.7 61.1
67 52.5 38.8 58.2
52 22.8 17.3 25.9

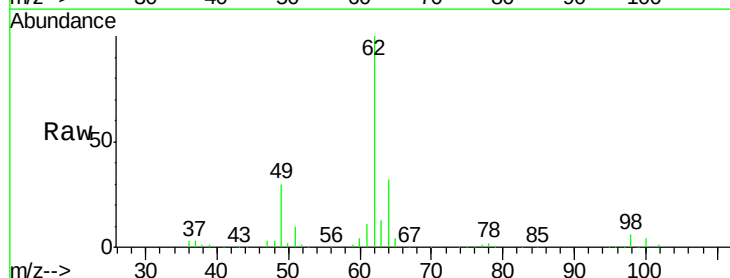


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

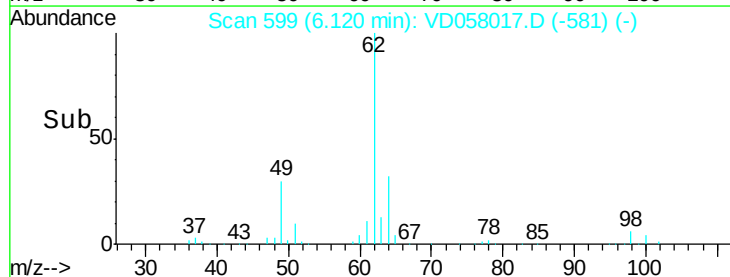
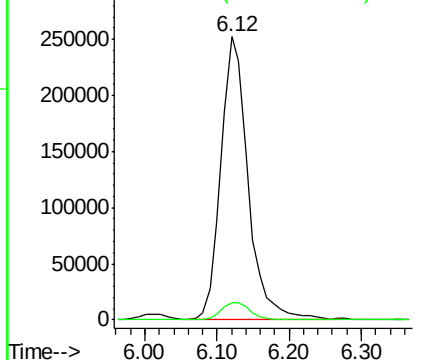


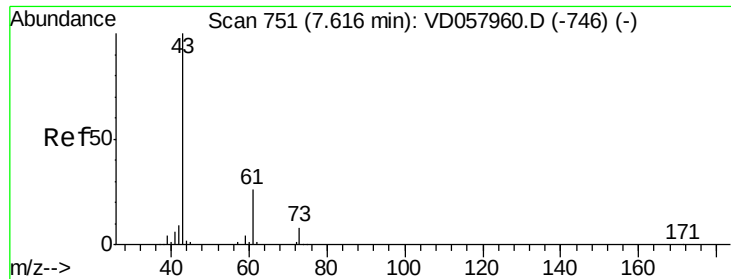
#42
1,2-Dichloroethane
Concen: 54.49 ug/l
RT: 6.12 min Scan# 599
Delta R.T. -0.02 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion: 62 Resp: 655545
Ion Ratio Lower Upper
62 100
98 6.2 0.0 12.8



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 55.48 ug/l

RT: 7.61 min Scan# 750

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

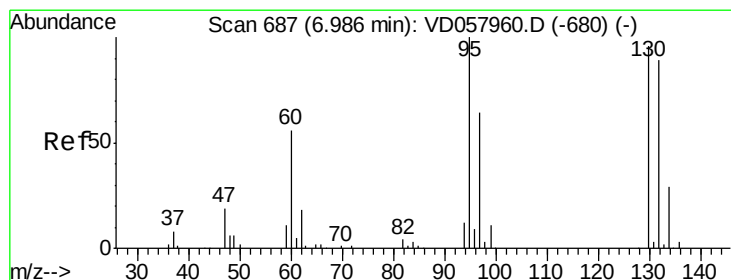
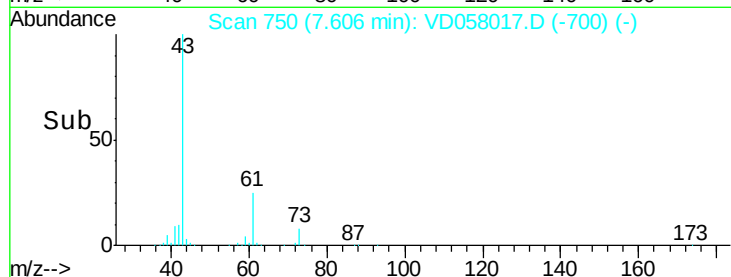
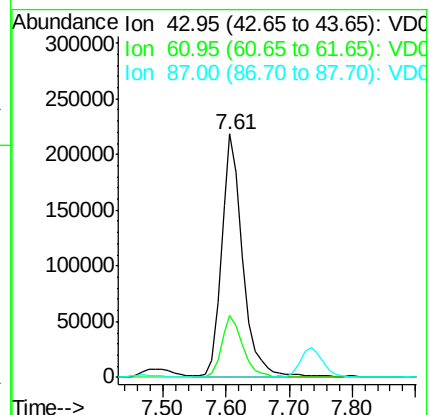
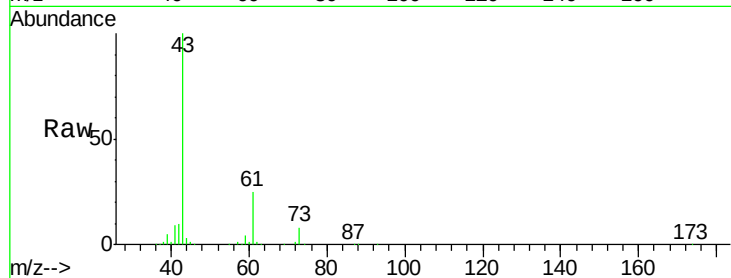
Tot Ion: 43 Resp: 505053

Ion Ratio Lower Upper

43 100

61 25.4 20.6 30.8

87 0.3 0.2 0.4



#44

Trichloroethene

Concen: 54.33 ug/l

RT: 6.98 min Scan# 686

Delta R.T. -0.01 min

Lab File: VD058017.D

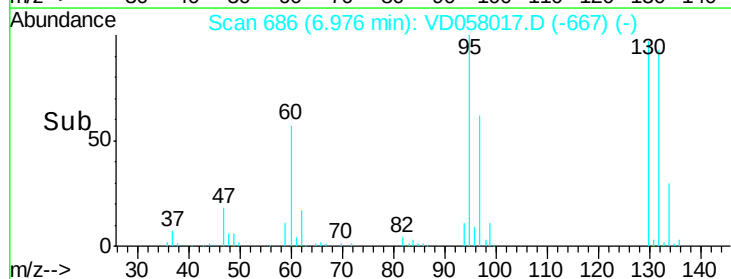
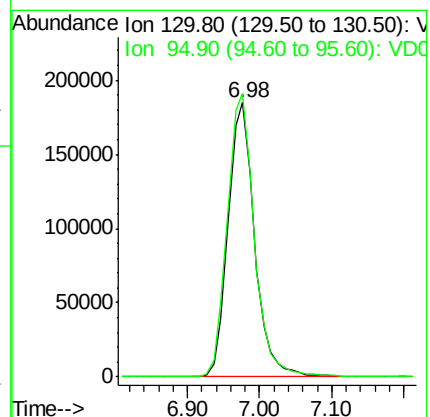
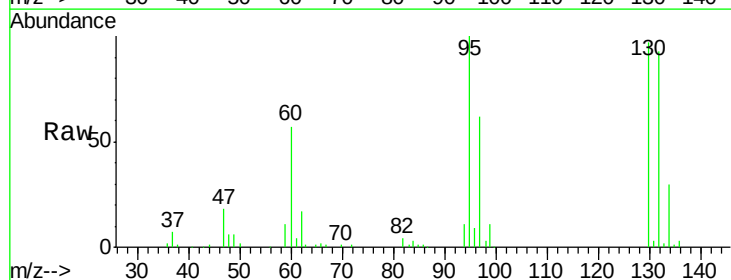
Acq: 8 Jun 2018 14:52

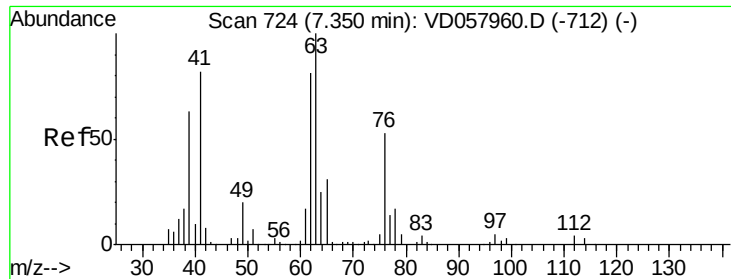
Tgt Ion:130 Resp: 472195

Ion Ratio Lower Upper

130 100

95 103.2 0.0 207.4

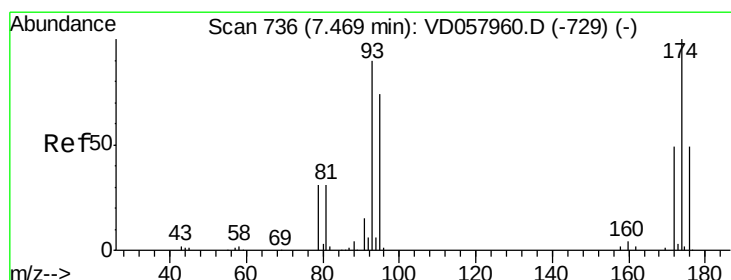
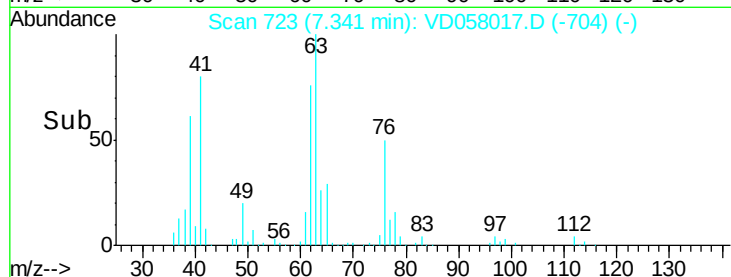
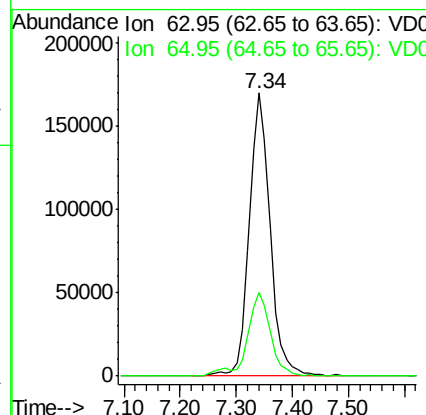
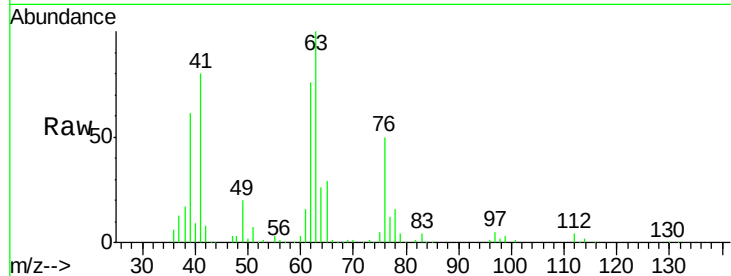




#45
1,2-Dichloropropane
Concen: 53.06 ug/l
RT: 7.34 min Scan# 723
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

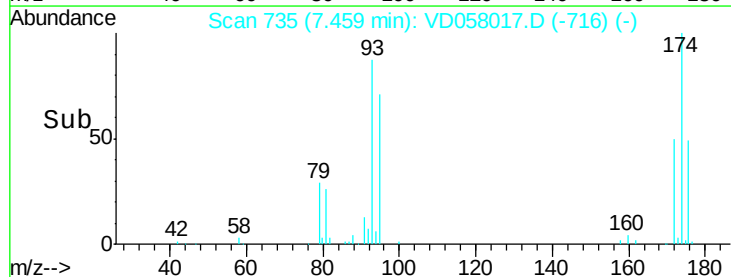
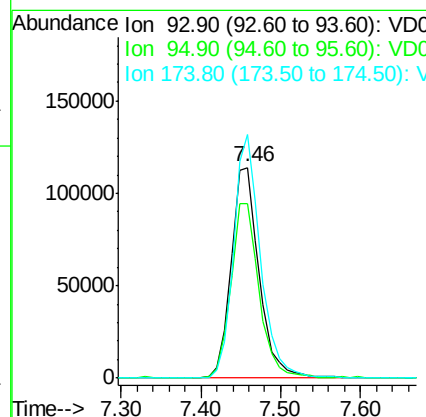
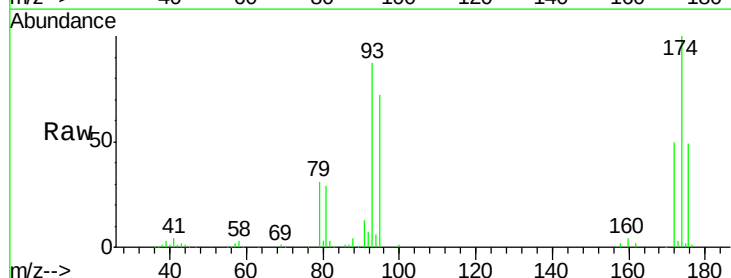
Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

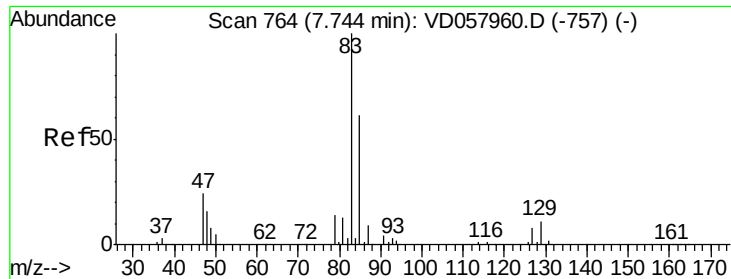
Tot Ion: 63 Resp: 438778
Ion Ratio Lower Upper
63 100
65 29.5 24.9 37.3



#46
Dibromomethane
Concen: 53.10 ug/l
RT: 7.46 min Scan# 735
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion: 93 Resp: 282090
Ion Ratio Lower Upper
93 100
95 82.6 65.7 98.5
174 115.6 89.0 133.4





#47

Bromodichloromethane

Concen: 53.75 ug/l

RT: 7.73 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

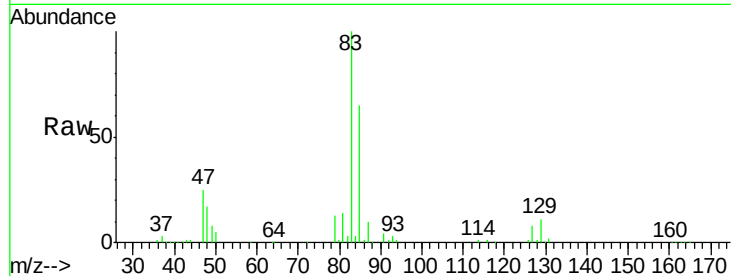
Tot Ion: 83 Resp: 668516

Ion Ratio Lower Upper

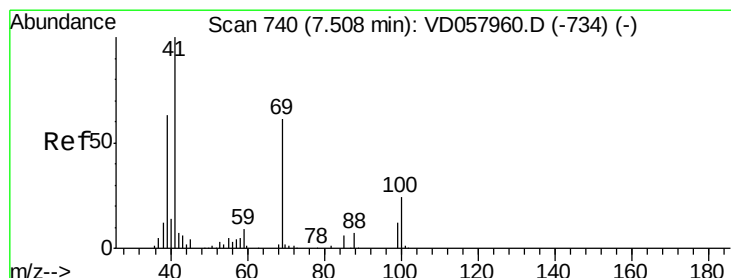
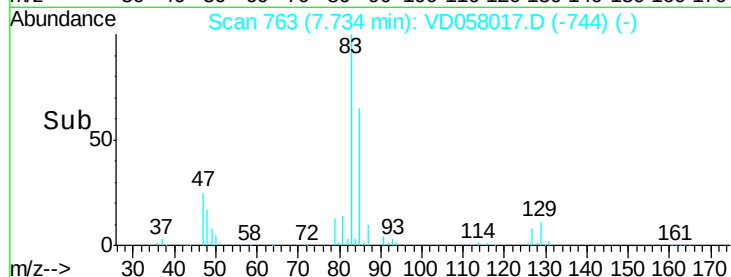
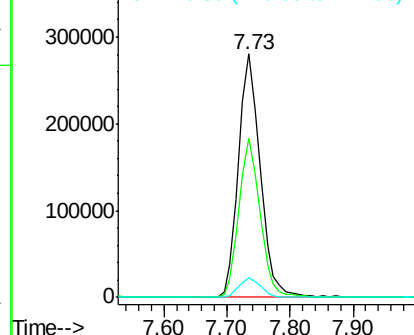
83 100

85 65.1 49.1 73.7

127 8.1 6.2 9.2



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): V



#48

Methyl methacrylate

Concen: 55.55 ug/l

RT: 7.50 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

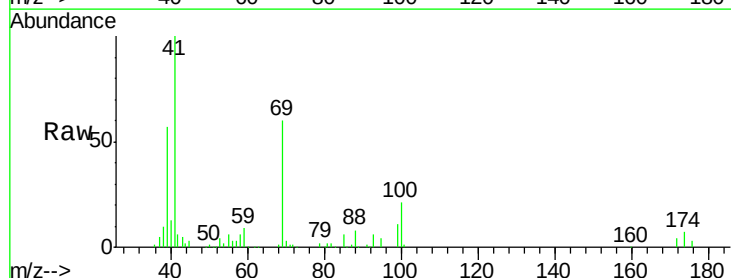
Tgt Ion: 41 Resp: 311226

Ion Ratio Lower Upper

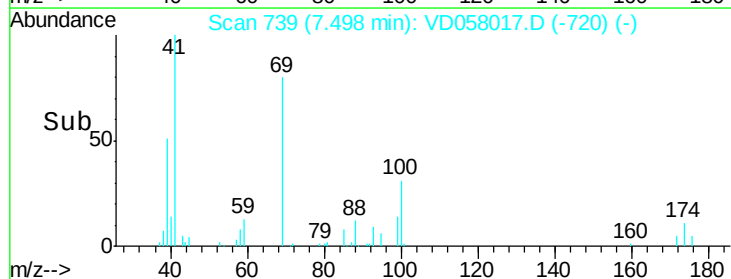
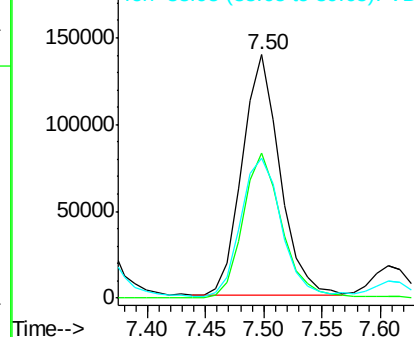
41 100

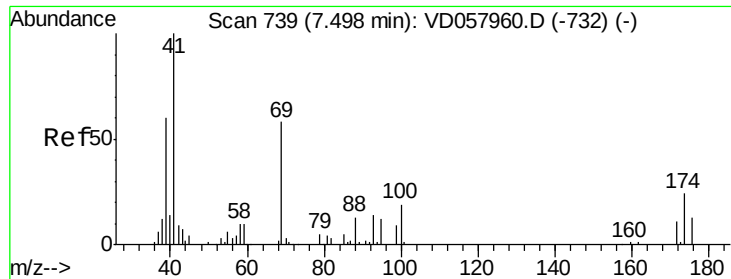
69 59.8 48.0 72.0

39 57.4 50.7 76.1



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: 1132.19 ug/l

RT: 7.48 min Scan# 737

Delta R.T. -0.02 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

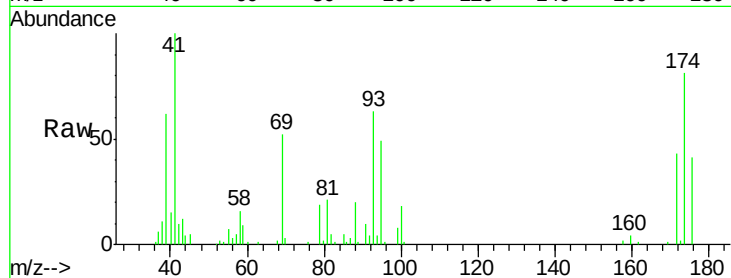
Tot Ion: 88 Resp: 52552

Ion Ratio Lower Upper

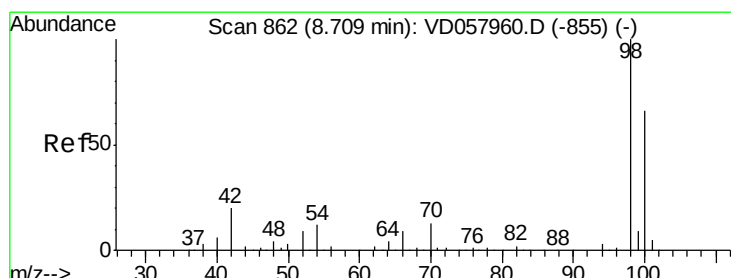
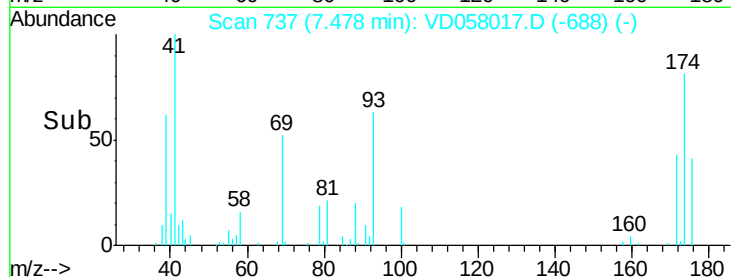
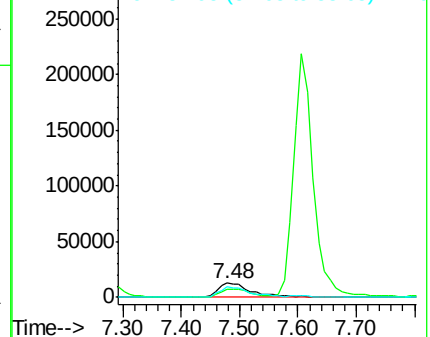
88 100

43 58.5 46.6 69.8

58 77.5 63.6 95.4



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: 1132.19 ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058017.D

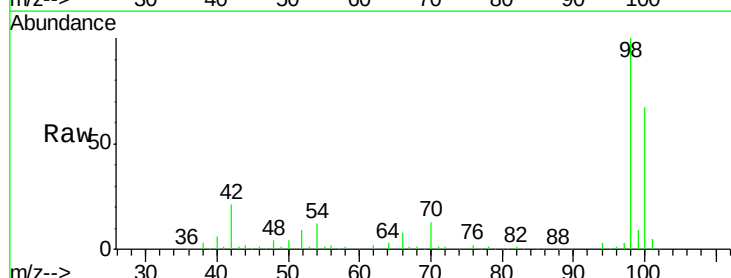
Acq: 8 Jun 2018 14:52

Tgt Ion: 98 Resp: 1067948

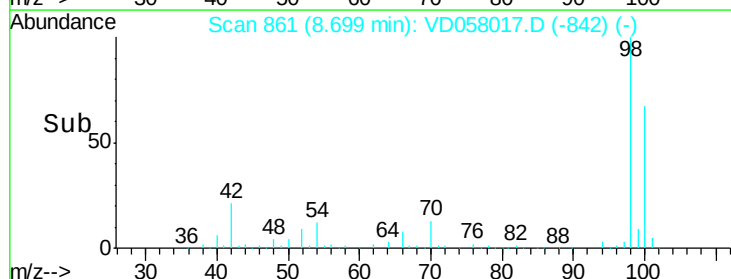
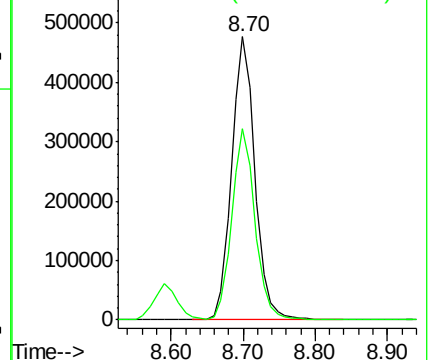
Ion Ratio Lower Upper

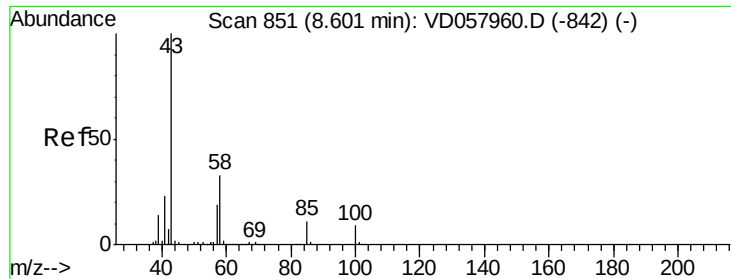
98 100

100 67.4 53.4 80.0



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: 278.49 ug/l

RT: 8.59 min Scan# 850

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

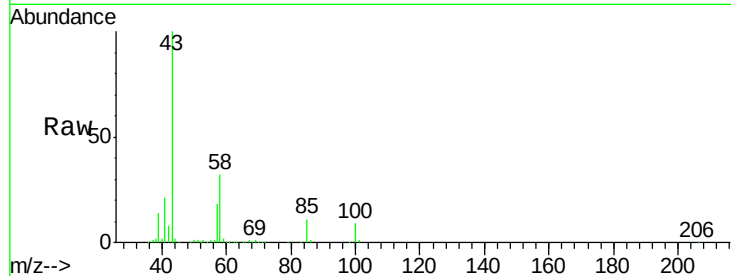
S39-0177MSD

Tot Ion: 43 Resp: 1626104

Ion Ratio Lower Upper

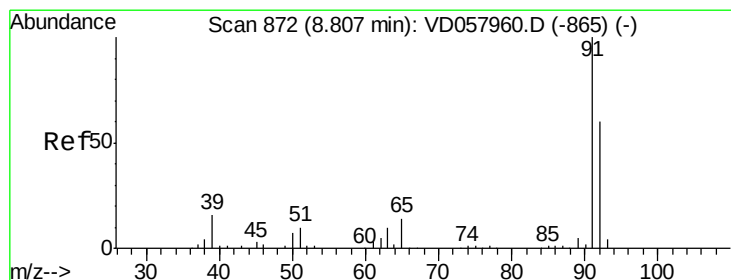
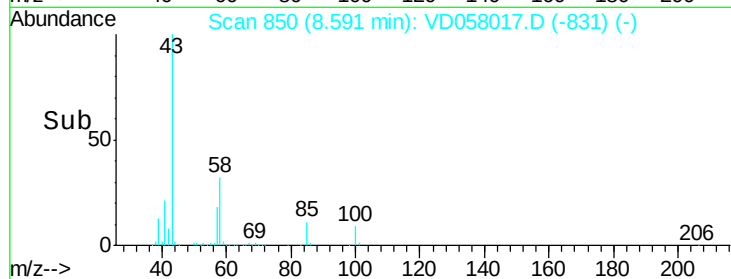
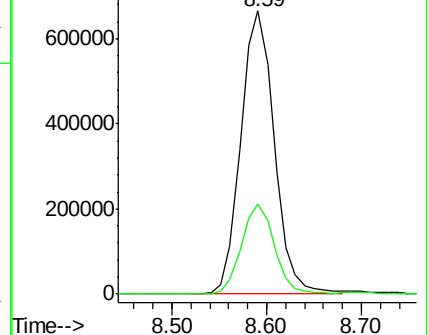
43 100

58 31.8 26.2 39.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 50.07 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.01 min

Lab File: VD058017.D

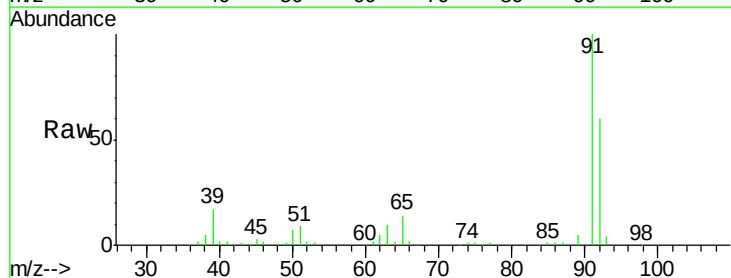
Acq: 8 Jun 2018 14:52

Tgt Ion: 92 Resp: 854990

Ion Ratio Lower Upper

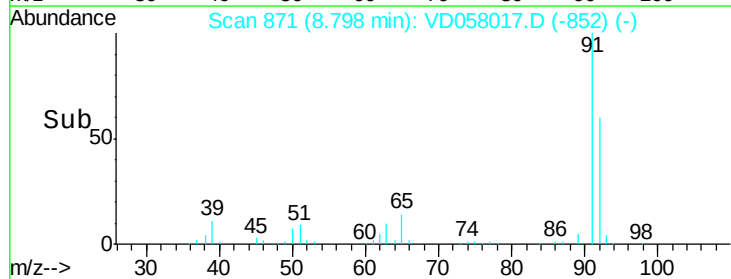
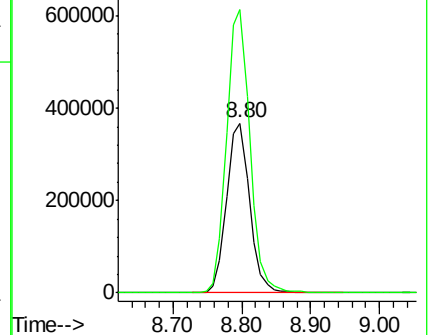
92 100

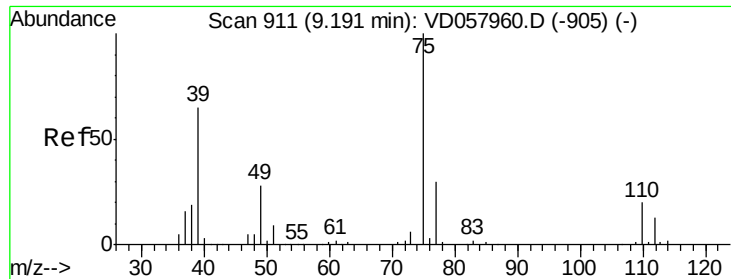
91 166.8 133.0 199.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

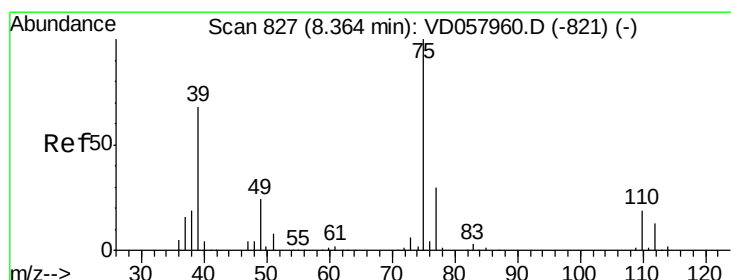
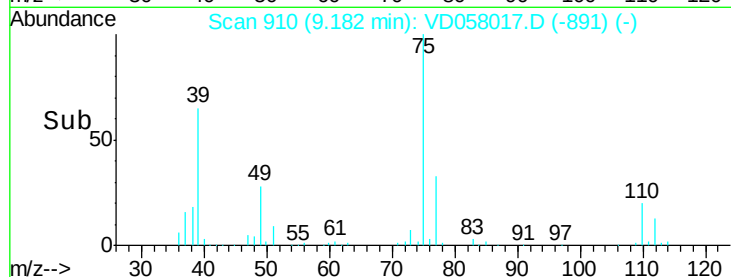
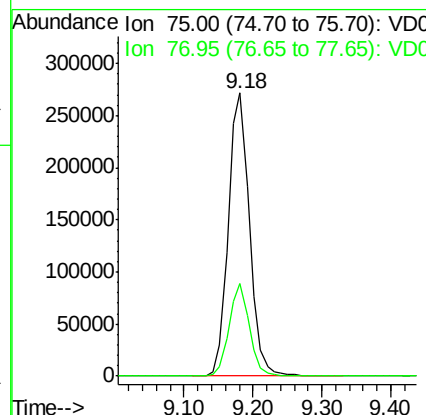
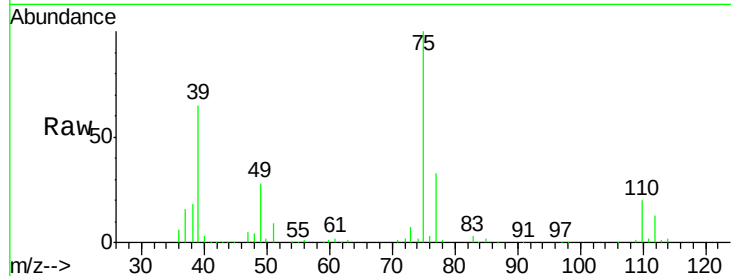




#53
 t-1,3-Dichloropropene
 Concen: 53.62 ug/l
 RT: 9.18 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

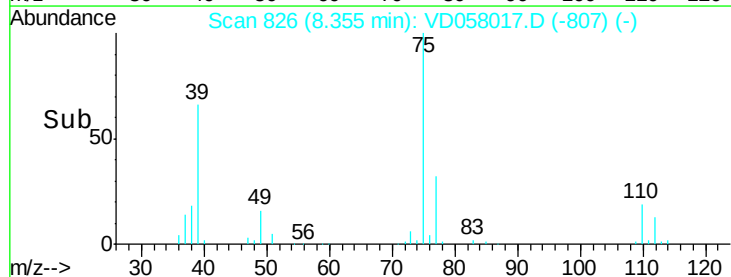
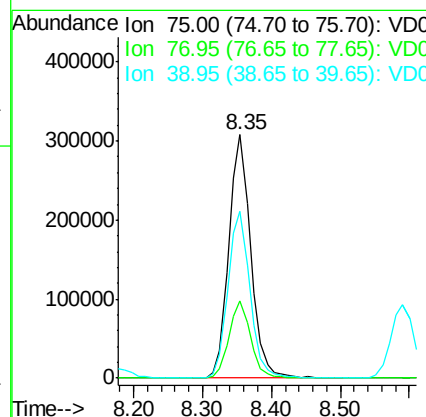
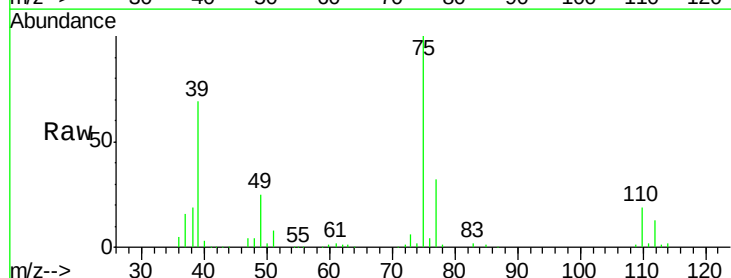
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

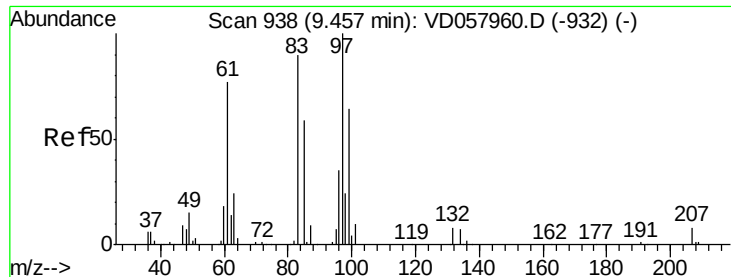
Tot Ion: 75 Resp: 574624
 Ion Ratio Lower Upper
 75 100
 77 32.7 24.3 36.5



#54
 cis-1,3-Dichloropropene
 Concen: 53.87 ug/l
 RT: 8.35 min Scan# 826
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion: 75 Resp: 680129
 Ion Ratio Lower Upper
 75 100
 77 31.9 24.1 36.1
 39 68.7 54.0 81.0





#55

1,1,2-Trichloroethane

Concen: 51.46 ug/l

RT: 9.45 min Scan# 937

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

Tot Ion: 97 Resp: 284405

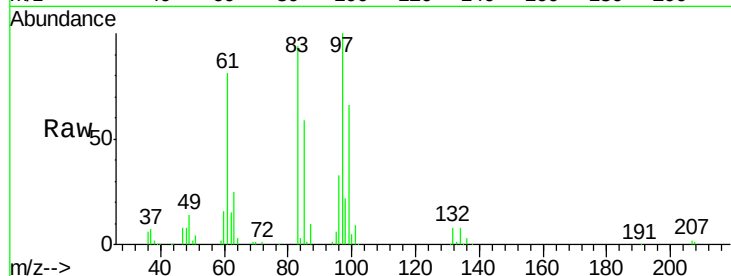
Ion Ratio Lower Upper

97 100

83 94.4 71.8 107.8

85 58.9 47.2 70.8

99 65.8 51.4 77.0

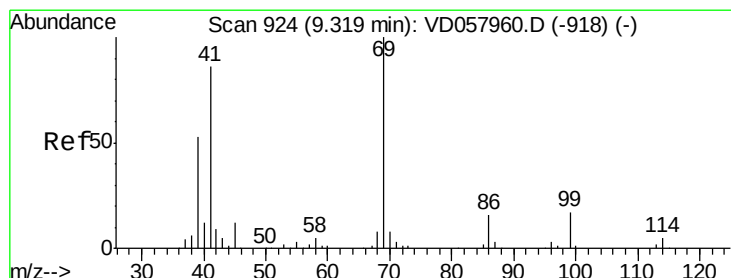
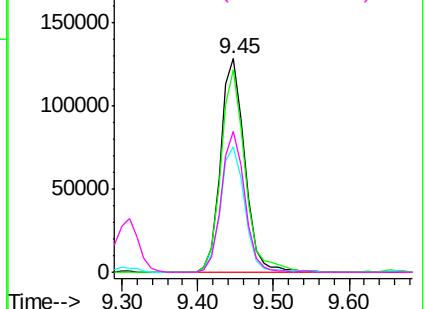
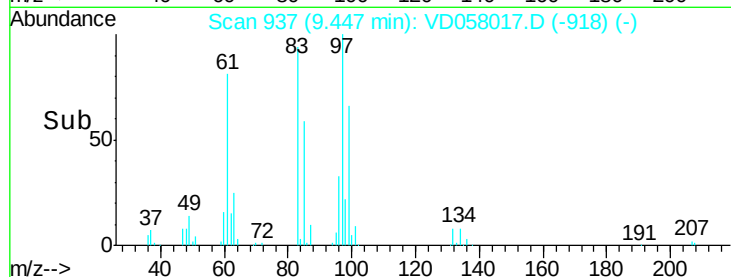


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 52.16 ug/l

RT: 9.31 min Scan# 923

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

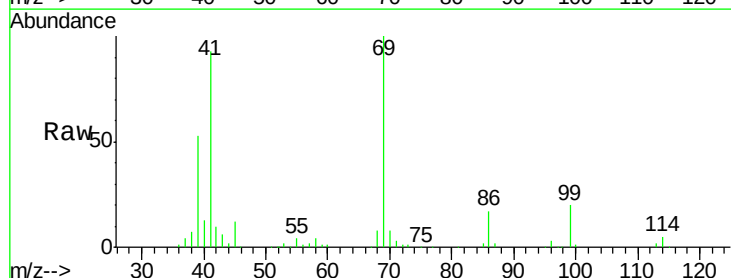
Tgt Ion: 69 Resp: 353626

Ion Ratio Lower Upper

69 100

41 93.3 68.4 102.6

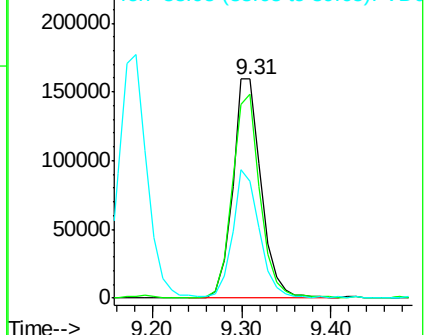
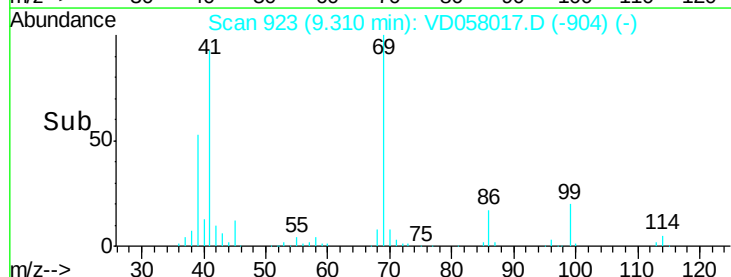
39 53.4 43.0 64.4

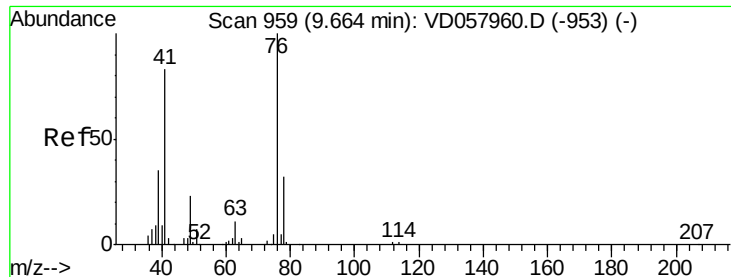


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

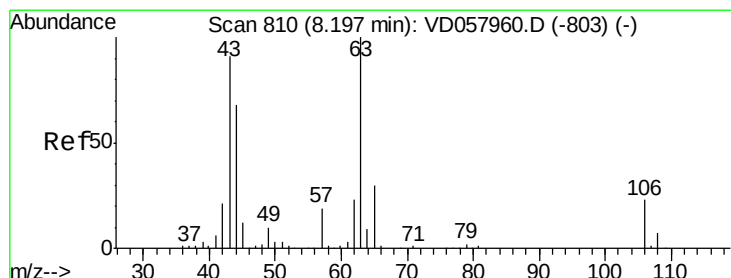
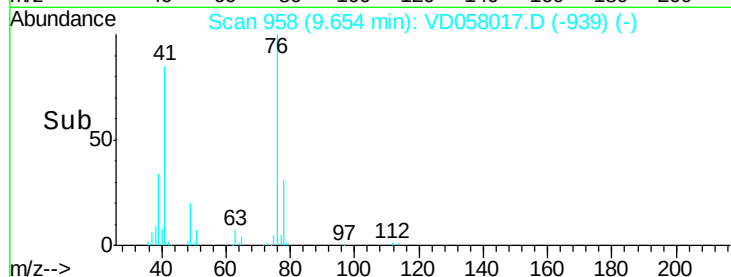
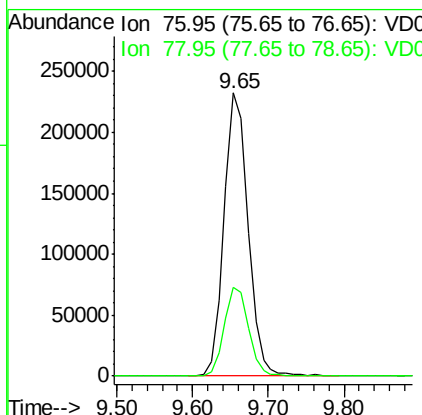
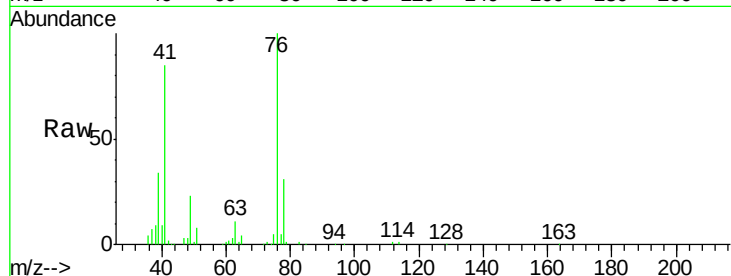




#57
 1,3-Dichloropropane
 Concen: 52.78 ug/l
 RT: 9.65 min Scan# 958
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

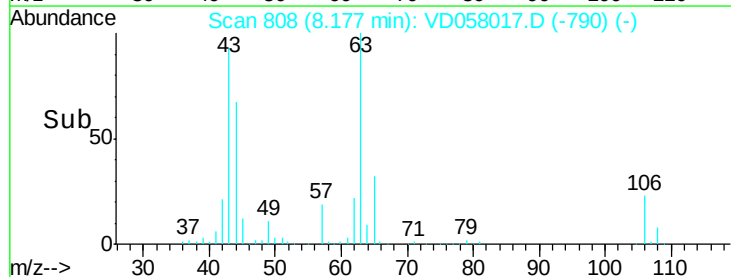
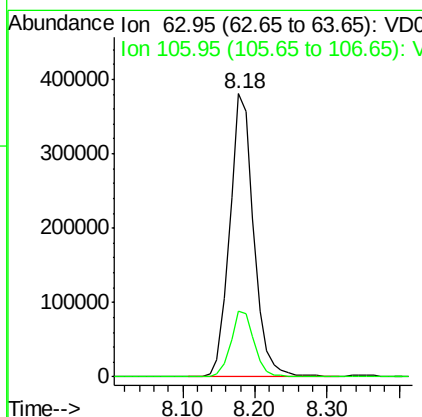
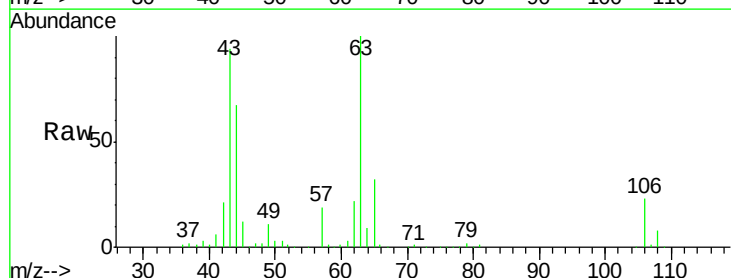
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

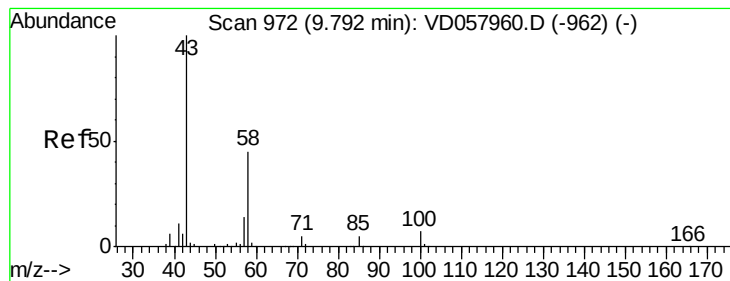
Tot Ion: 76 Resp: 511619
 Ion Ratio Lower Upper
 76 100
 78 31.5 25.4 38.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 256.73 ug/l
 RT: 8.18 min Scan# 808
 Delta R.T. -0.02 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion: 63 Resp: 879304
 Ion Ratio Lower Upper
 63 100
 106 23.2 18.7 28.1





#59

2-Hexanone

Concen: 269.77 ug/l

RT: 9.78 min Scan# 971

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

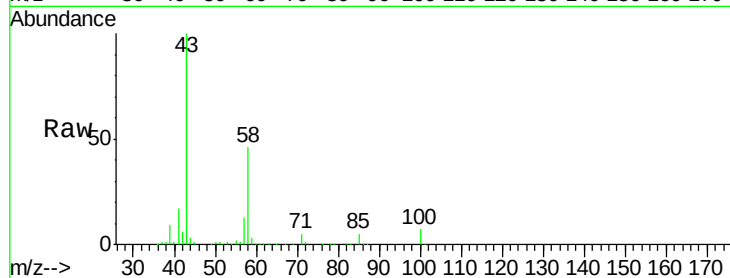
S39-0177MSD

Tot Ion: 43 Resp: 1154328

Ion Ratio Lower Upper

43 100

58 46.0 22.5 67.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

600000

500000

400000

300000

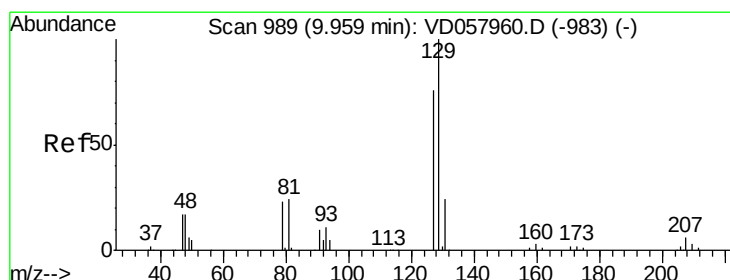
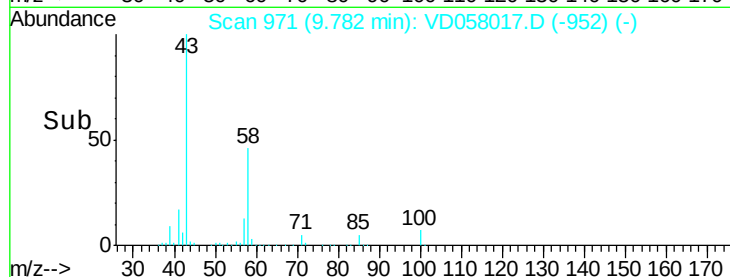
200000

100000

0

9.60 9.70 9.80 9.90

Time-->



#60

Dibromochloromethane

Concen: 53.35 ug/l

RT: 9.95 min Scan# 988

Delta R.T. -0.01 min

Lab File: VD058017.D

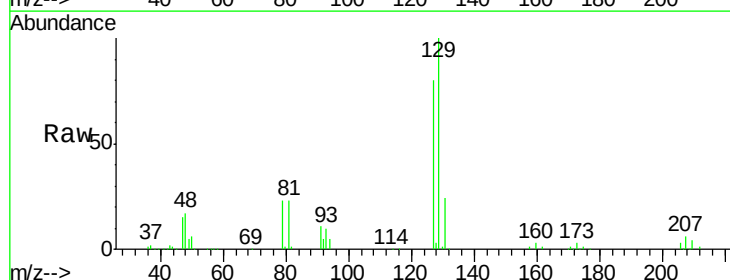
Acq: 8 Jun 2018 14:52

Tgt Ion:129 Resp: 415794

Ion Ratio Lower Upper

129 100

127 80.1 38.3 114.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

200000

150000

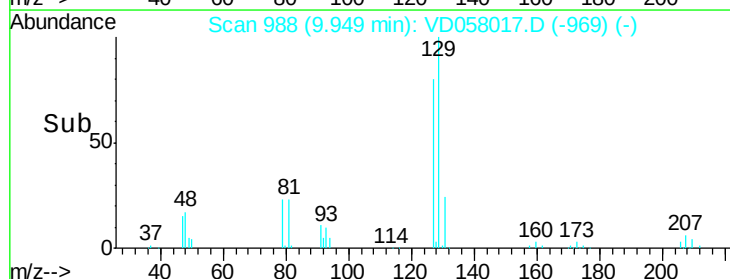
100000

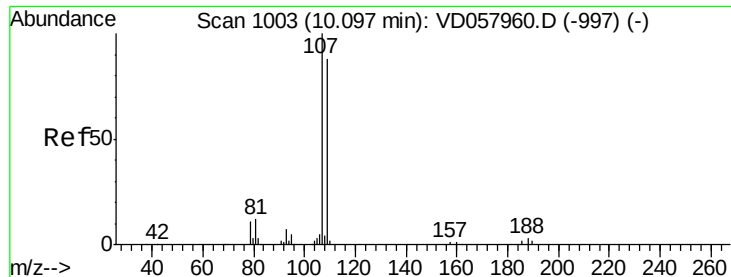
50000

0

9.80 9.90 10.00 10.10

Time-->





#61

1,2-Dibromoethane

Concen: 53.82 ug/l

RT: 10.09 min Scan# 1002

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

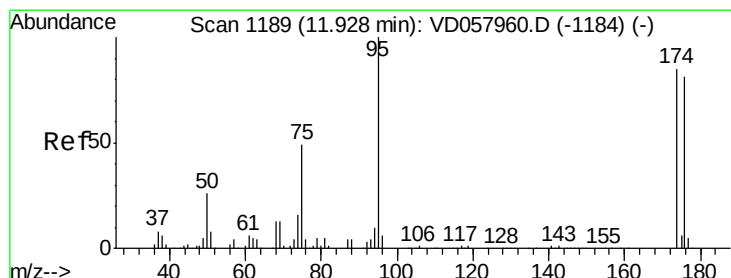
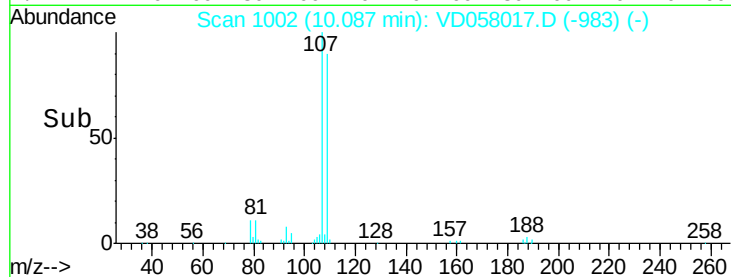
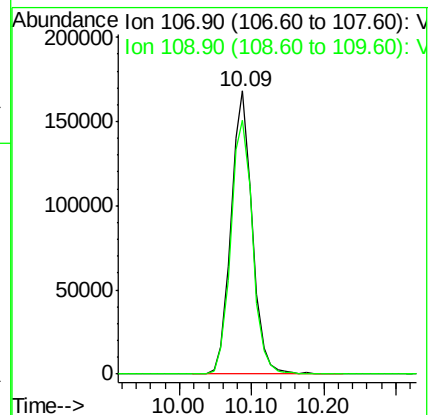
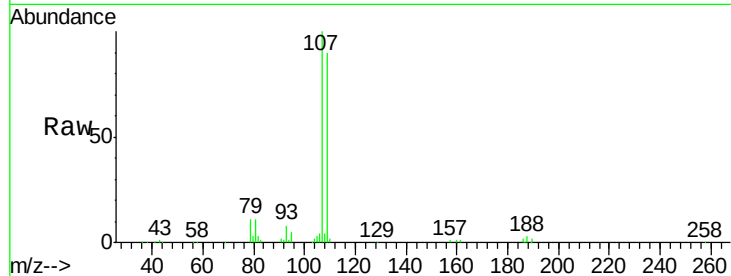
S39-0177MSD

Tot Ion:107 Resp: 342043

Ion Ratio Lower Upper

107 100

109 89.6 70.6 106.0



#62

4-Bromofluorobenzene

Concen: 53.82 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

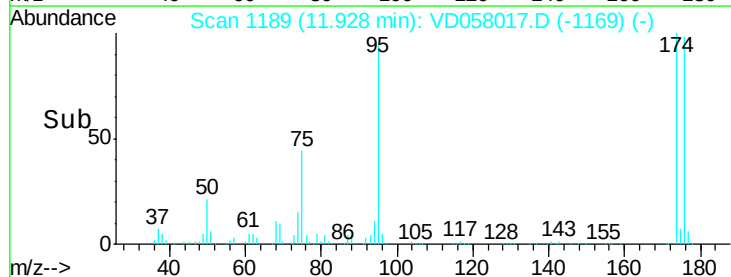
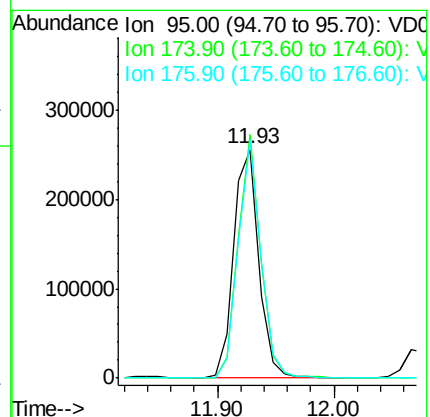
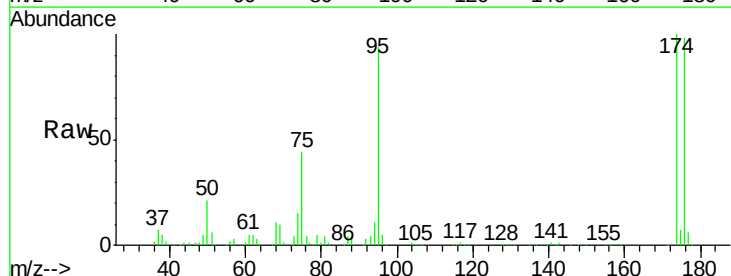
Tgt Ion: 95 Resp: 383128

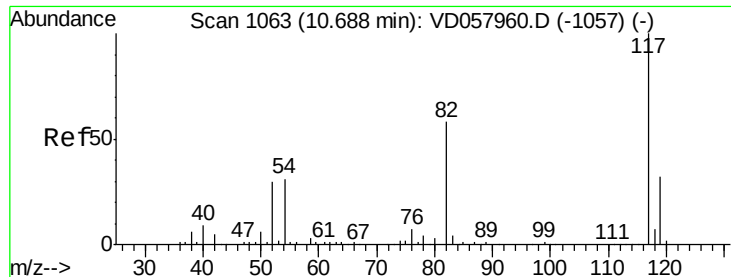
Ion Ratio Lower Upper

95 100

174 106.4 0.0 169.4

176 104.1 0.0 162.6

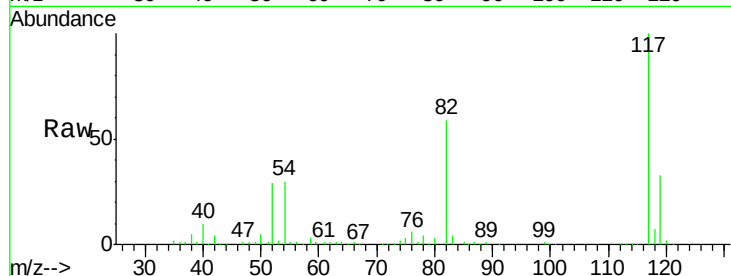




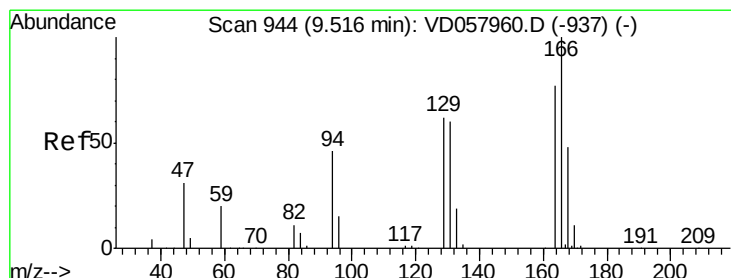
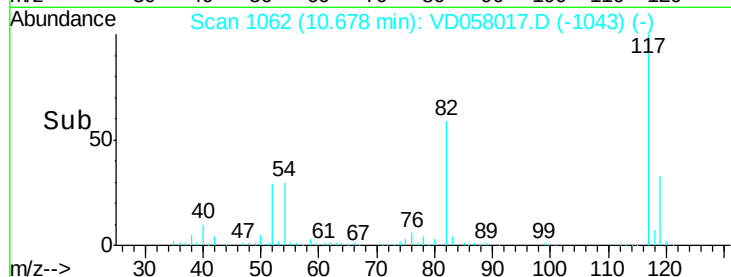
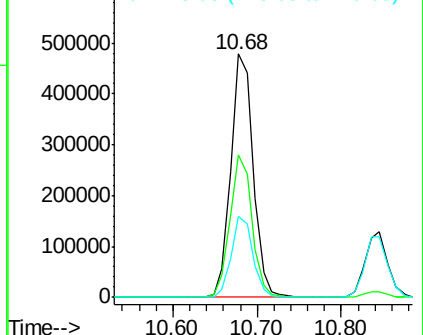
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

Tot Ion:117 Resp: 885876
Ion Ratio Lower Upper
117 100
82 58.8 46.8 70.2
119 33.3 25.8 38.6

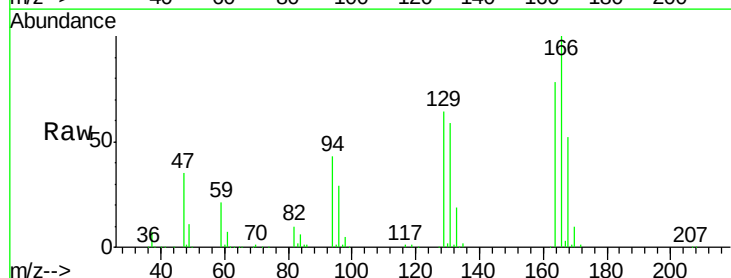


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

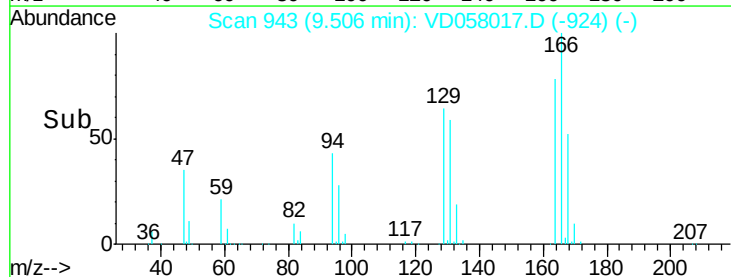
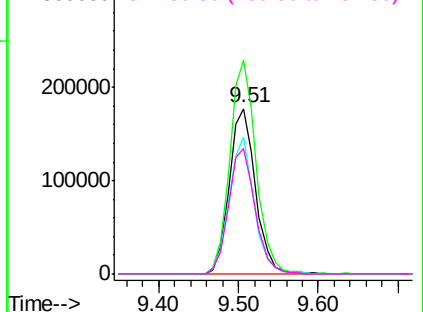


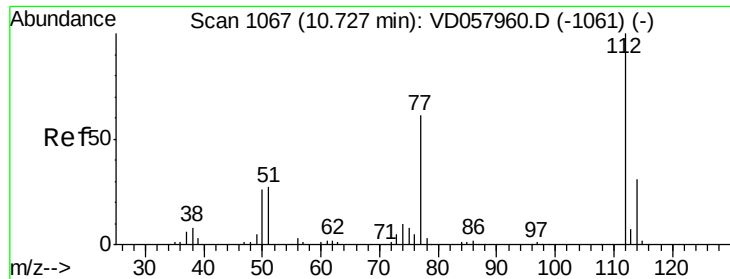
#64
Tetrachloroethene
Concen: 51.48 ug/l
RT: 9.51 min Scan# 943
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion:164 Resp: 407732
Ion Ratio Lower Upper
164 100
166 128.9 104.4 156.6
129 82.5 65.0 97.6
131 76.0 62.9 94.3



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

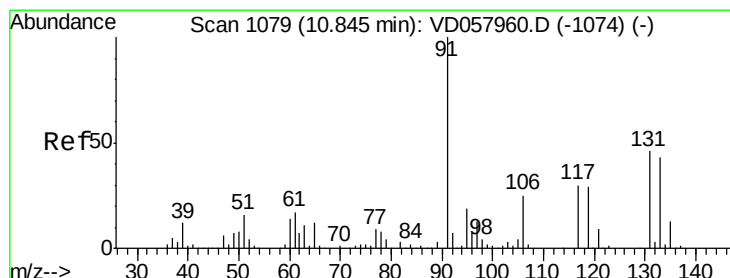
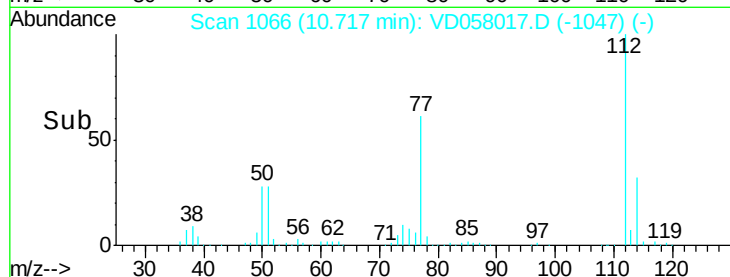
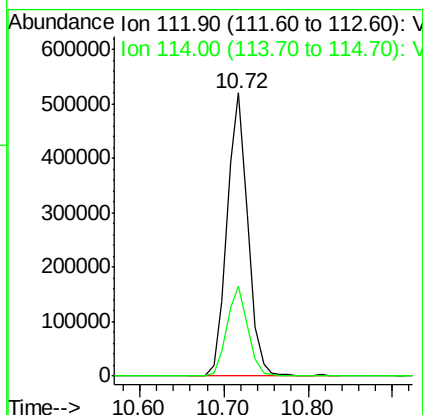
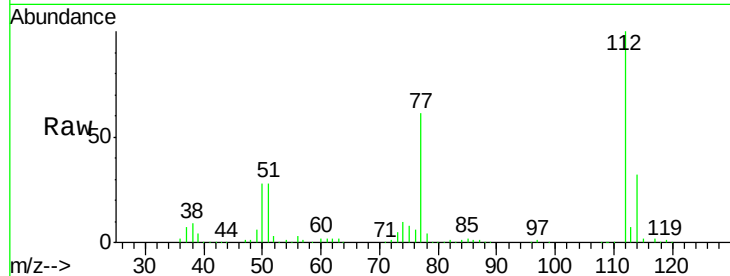




#65
Chlorobenzene
Concen: 49.55 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

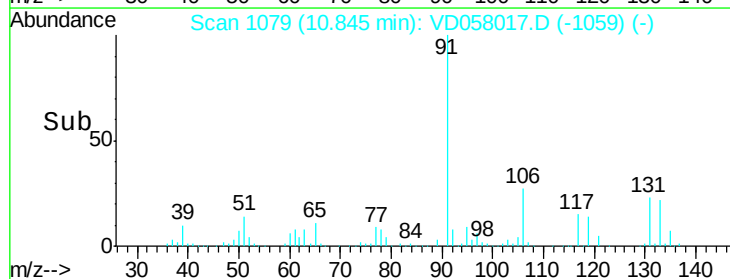
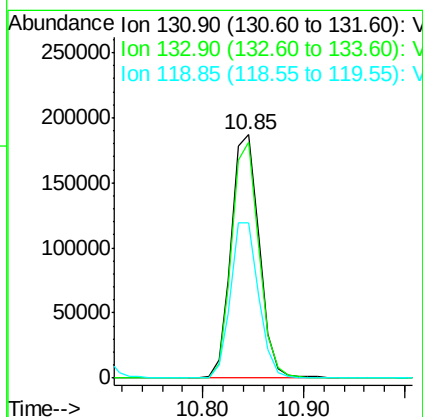
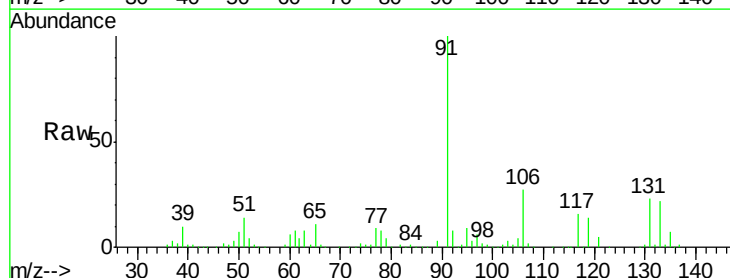
Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

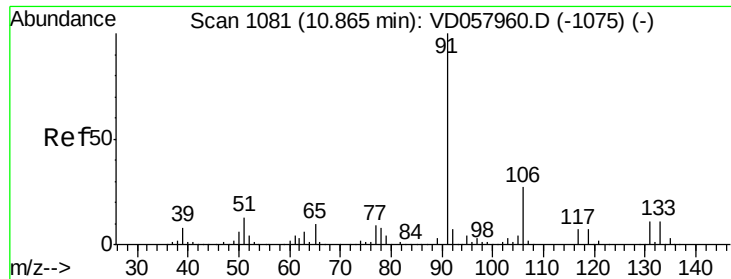
Tot Ion:112 Resp: 888566
Ion Ratio Lower Upper
112 100
114 31.7 24.9 37.3



#66
1,1,1,2-Tetrachloroethane
Concen: 52.37 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. 0.00 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion:131 Resp: 360862
Ion Ratio Lower Upper
131 100
133 96.7 46.9 140.6
119 63.5 31.8 95.3

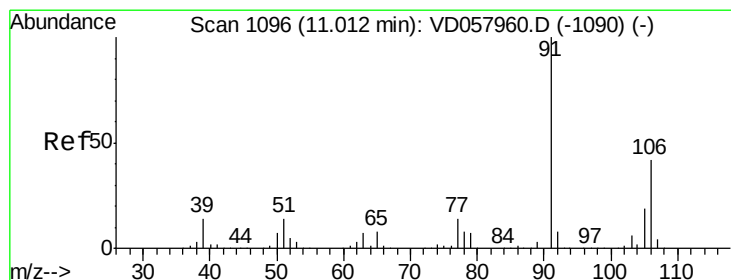
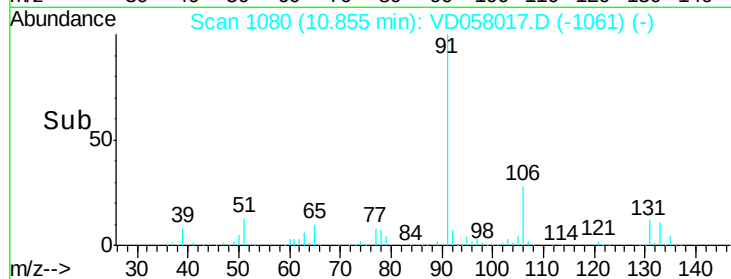
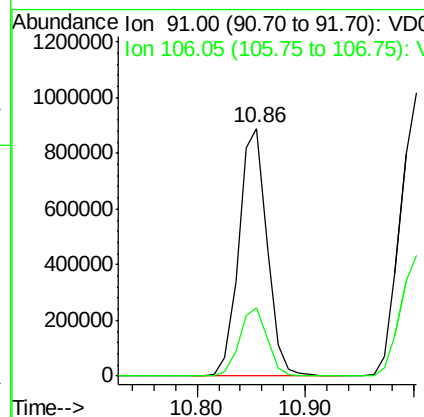
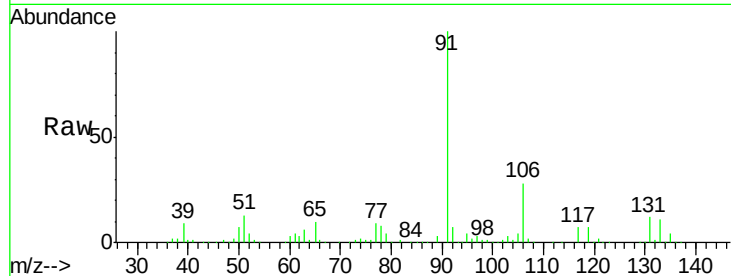




#67
Ethyl Benzene
Concen: 49.74 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

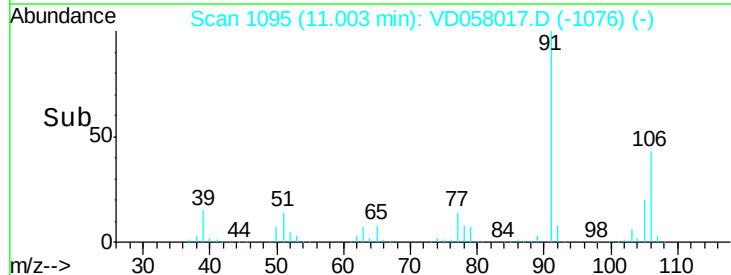
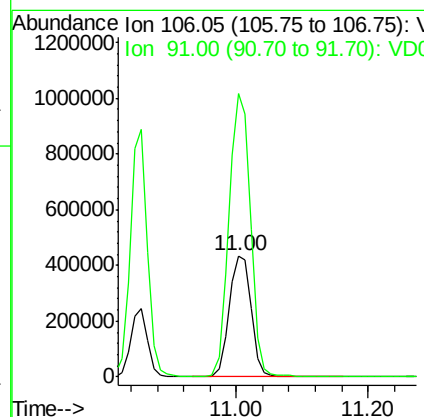
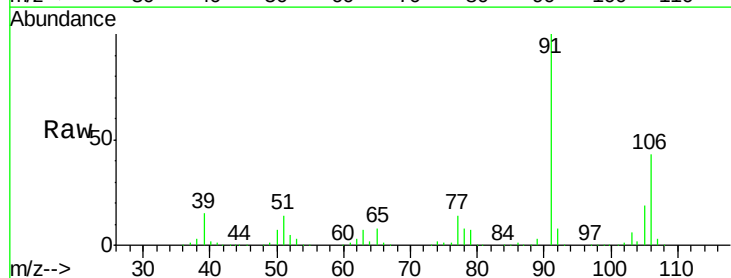
Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

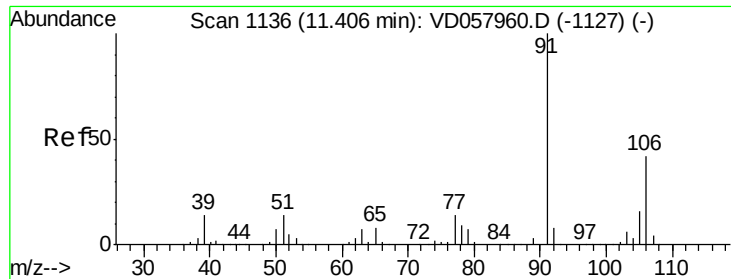
Tot Ion: 91 Resp: 1611438
Ion Ratio Lower Upper
91 100
106 27.7 21.5 32.3



#68
m/p-Xylenes
Concen: 95.69 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion: 106 Resp: 1010693
Ion Ratio Lower Upper
106 100
91 233.7 190.4 285.6

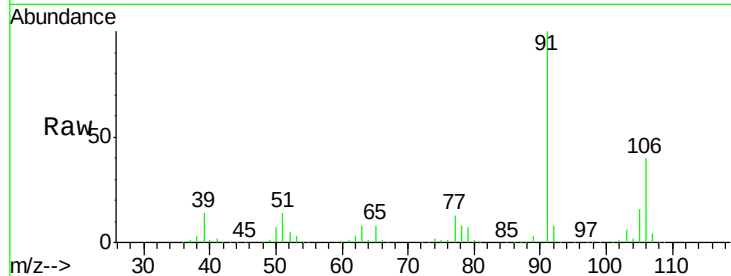




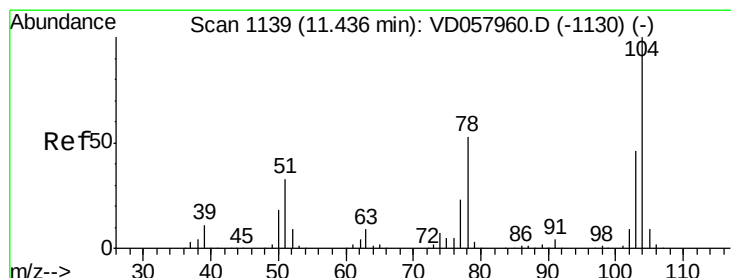
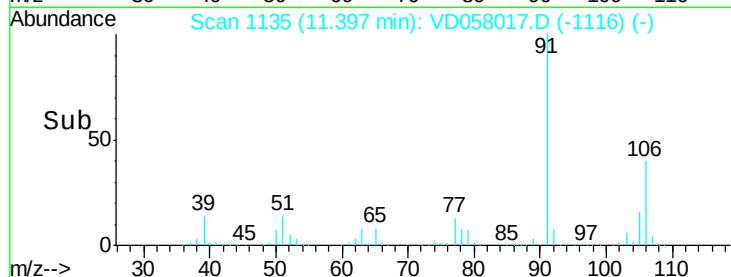
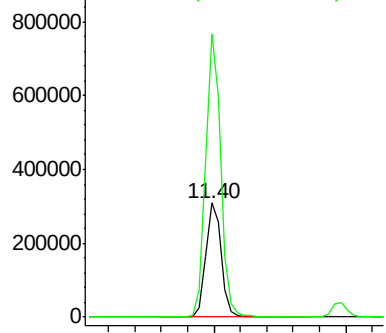
#69
o-Xylene
Concen: 48.71 ug/l
RT: 11.40 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

Tot Ion:106 Resp: 510722
Ion Ratio Lower Upper
106 100
91 247.6 120.6 361.7

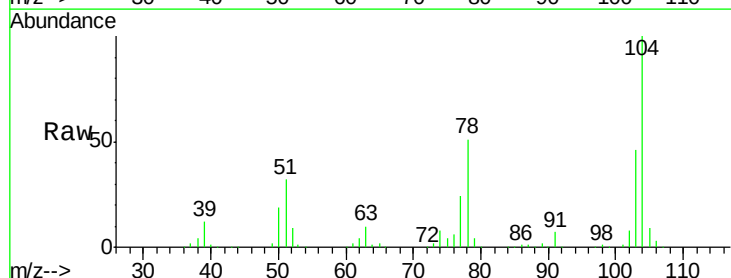


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

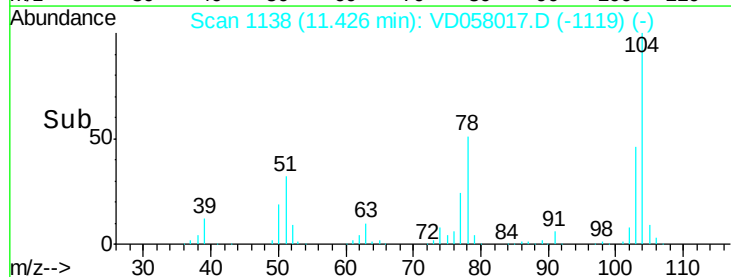
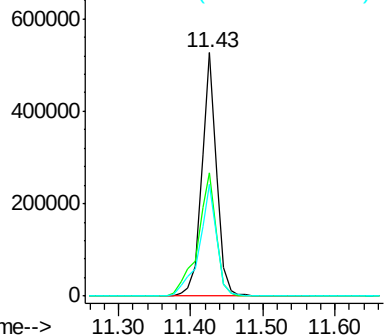


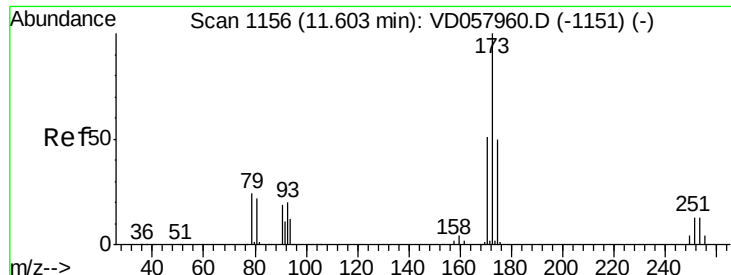
#70
Styrene
Concen: 43.08 ug/l
RT: 11.43 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion:104 Resp: 747659
Ion Ratio Lower Upper
104 100
78 50.8 42.1 63.1
103 45.7 37.0 55.6



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

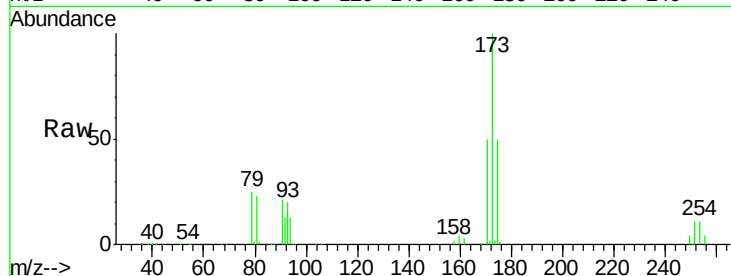




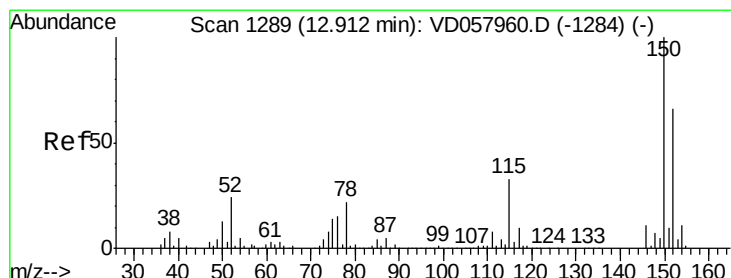
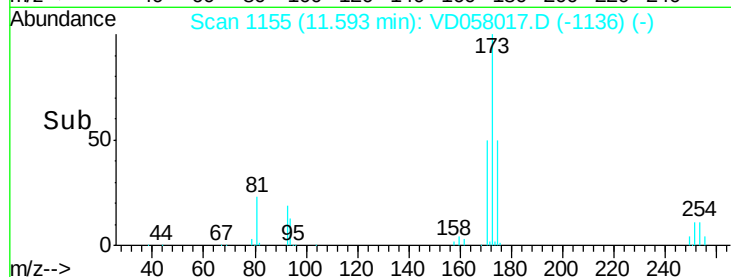
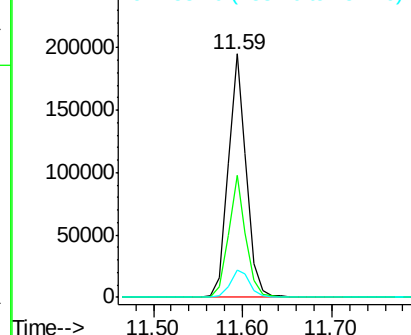
#71
Bromoform
Concen: 53.68 ug/l
RT: 11.59 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

Tot Ion:173 Resp: 278225
Ion Ratio Lower Upper
173 100
175 50.1 25.1 75.2
254 11.1 10.7 16.1

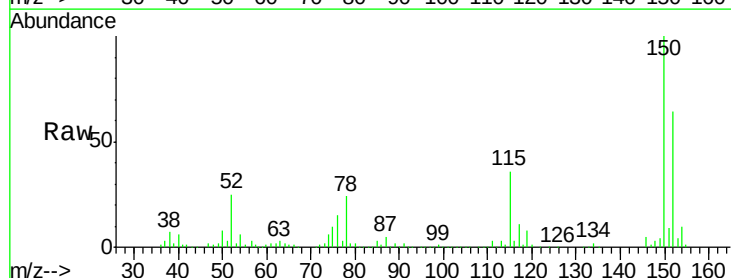


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

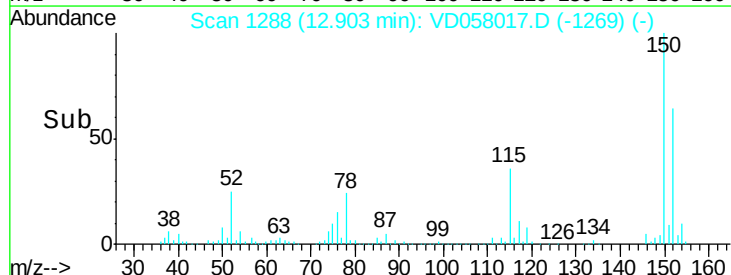
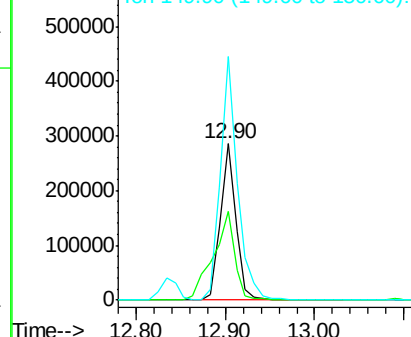


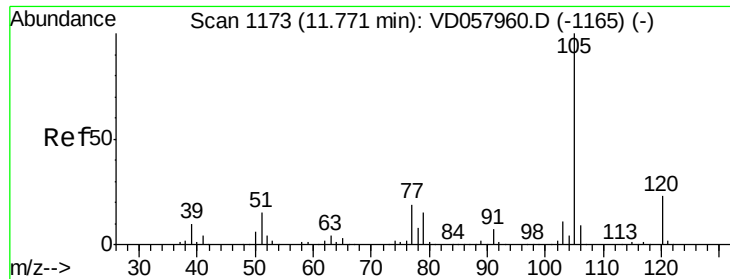
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion:152 Resp: 346807
Ion Ratio Lower Upper
152 100
115 56.8 25.6 76.6
150 156.1 0.0 306.8



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: 62.87 ug/l

RT: 11.77 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

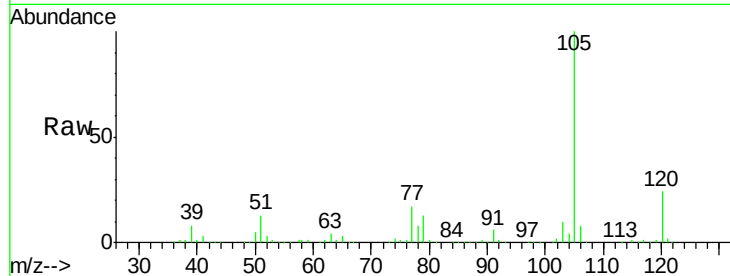
S39-0177MSD

Tot Ion:105 Resp: 1444188

Ion Ratio Lower Upper

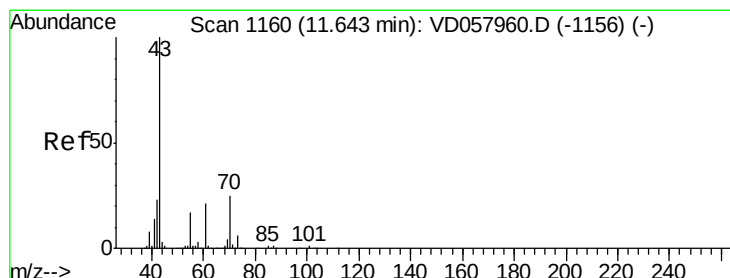
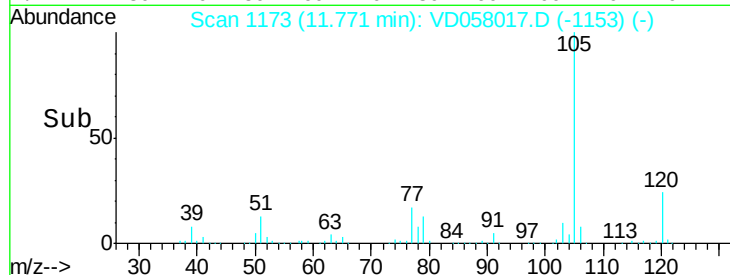
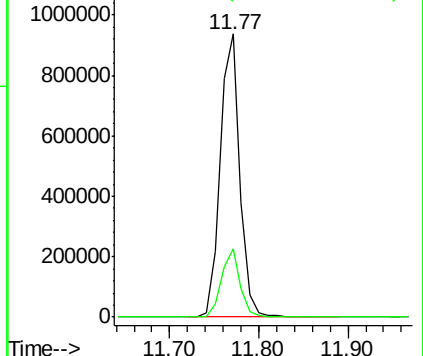
105 100

120 24.2 11.3 33.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 68.11 ug/l

RT: 11.64 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Tgt Ion: 43 Resp: 603707

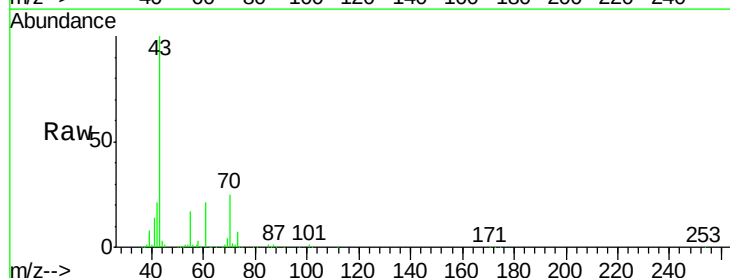
Ion Ratio Lower Upper

43 100

70 25.2 20.3 30.5

55 17.2 13.9 20.9

61 21.5 16.6 24.8

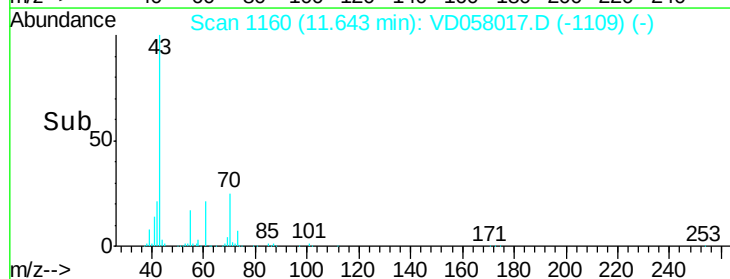
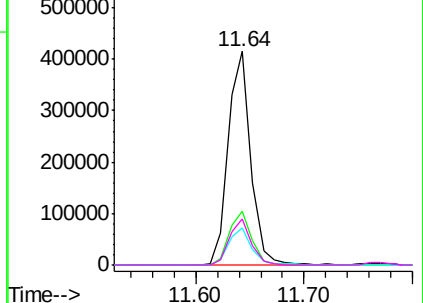


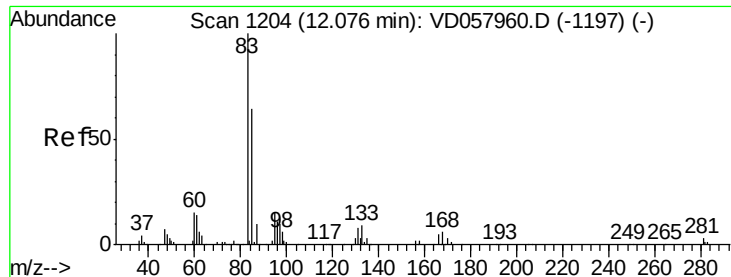
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 64.75 ug/l

RT: 12.07 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

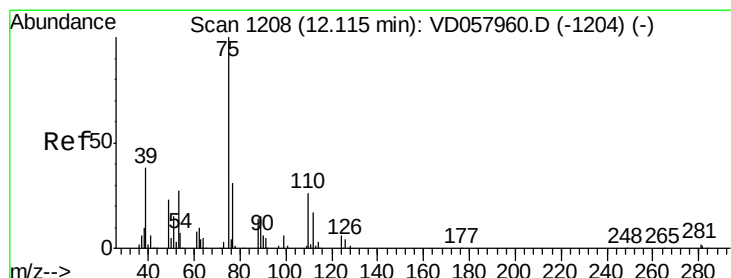
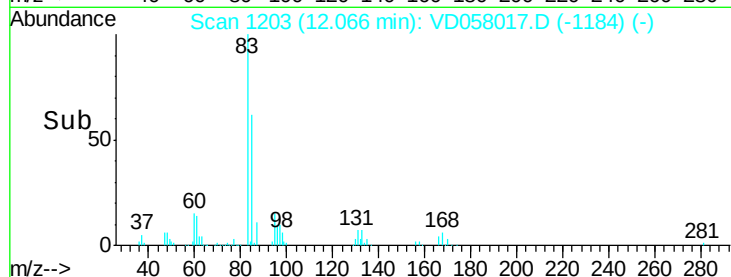
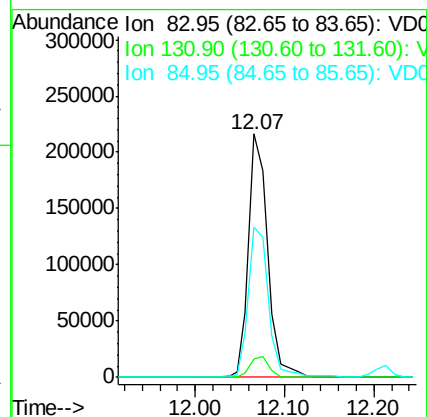
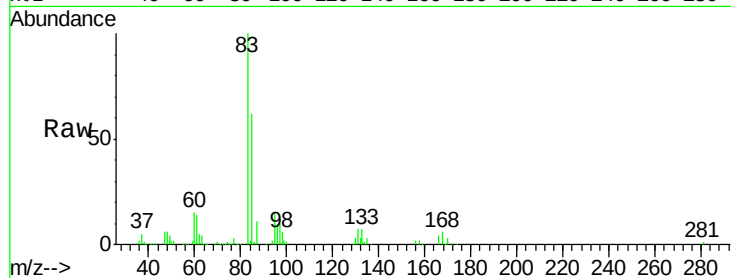
Tot Ion: 83 Resp: 324298

Ion	Ratio	Lower	Upper
83	100		
131	7.3	4.2	12.6
85	61.5	31.9	95.5

83 100

131 7.3 4.2 12.6

85 61.5 31.9 95.5



#76

1,2,3-Trichloropropane

Concen: 66.21 ug/l

RT: 12.11 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VD058017.D

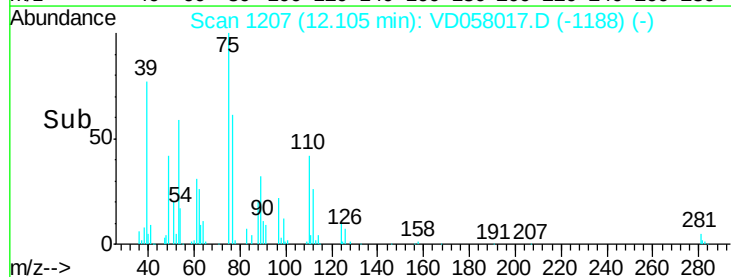
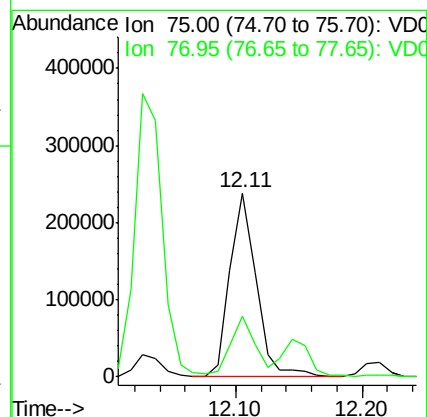
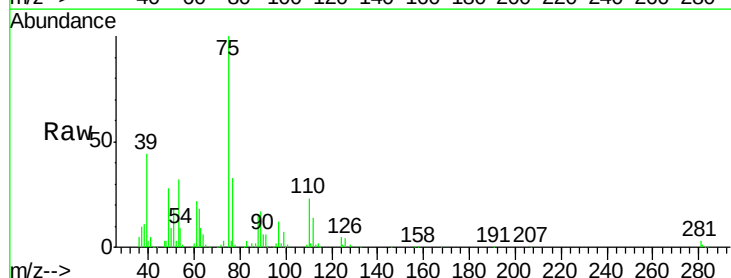
Acq: 8 Jun 2018 14:52

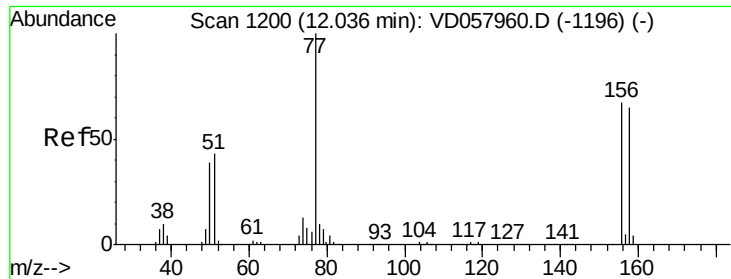
Tgt Ion: 75 Resp: 344927

Ion	Ratio	Lower	Upper
75	100		
77	33.2	16.7	50.1

75 100

77 33.2 16.7 50.1





#77

Bromobenzene

Concen: 58.58 ug/l

RT: 12.04 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

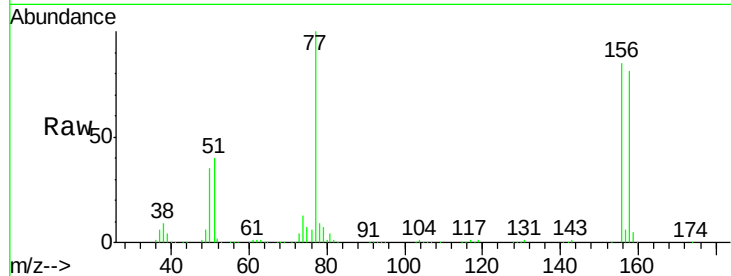
Tot Ion:156 Resp: 398298

Ion Ratio Lower Upper

156 100

77 118.3 75.0 224.8

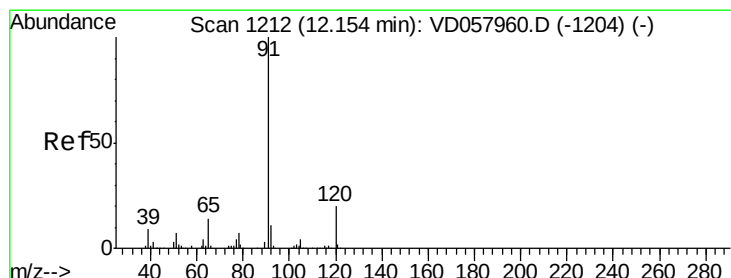
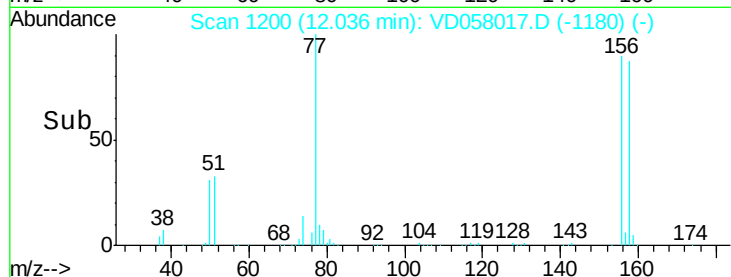
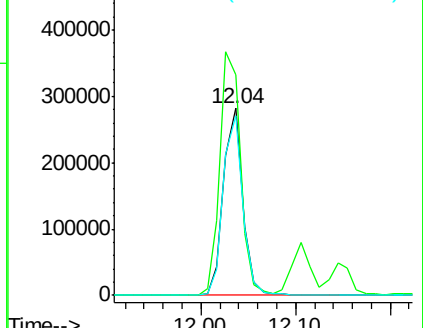
158 96.3 48.6 145.9



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 57.52 ug/l

RT: 12.14 min Scan# 1211

Delta R.T. -0.01 min

Lab File: VD058017.D

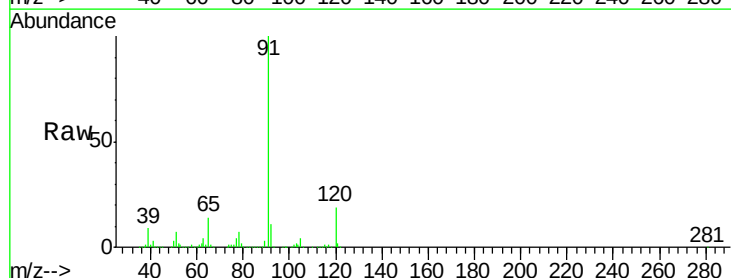
Acq: 8 Jun 2018 14:52

Tgt Ion: 91 Resp: 1719341

Ion Ratio Lower Upper

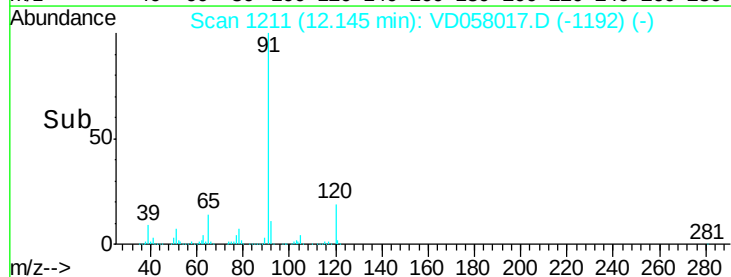
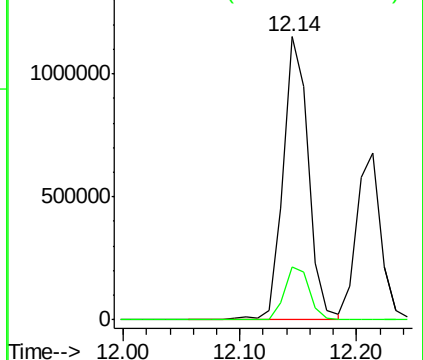
91 100

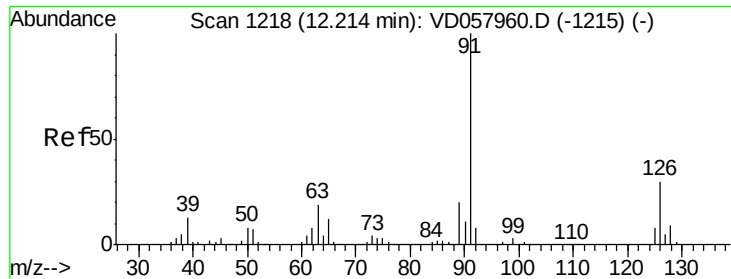
120 18.6 9.8 29.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 57.34 ug/l

RT: 12.21 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

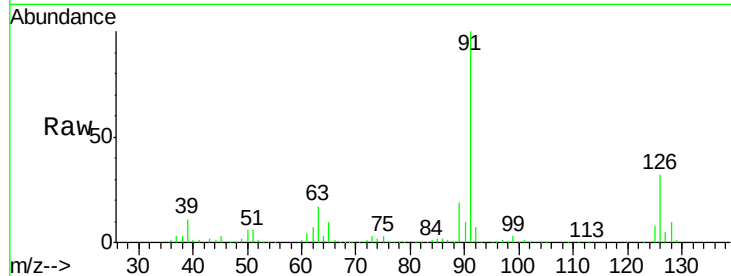
S39-0177MSD

Tot Ion: 91 Resp: 977805

Ion Ratio Lower Upper

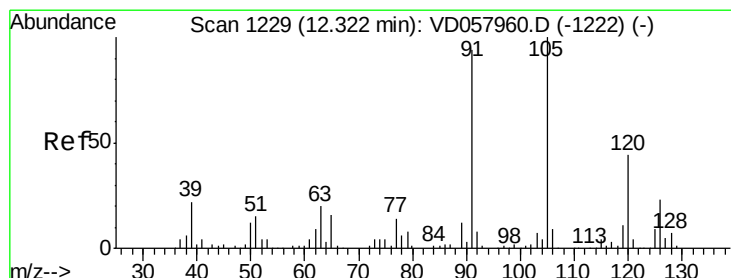
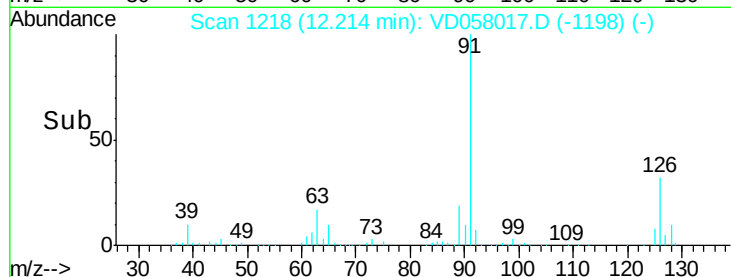
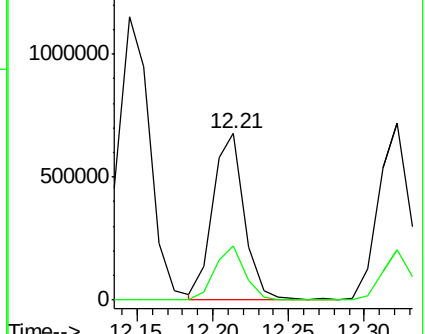
91 100

126 32.5 14.6 44.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 56.98 ug/l

RT: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058017.D

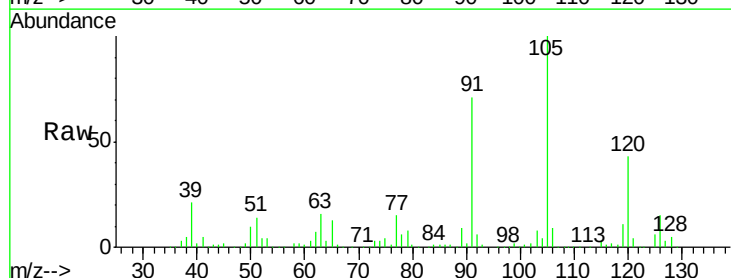
Acq: 8 Jun 2018 14:52

Tgt Ion:105 Resp: 1020710

Ion Ratio Lower Upper

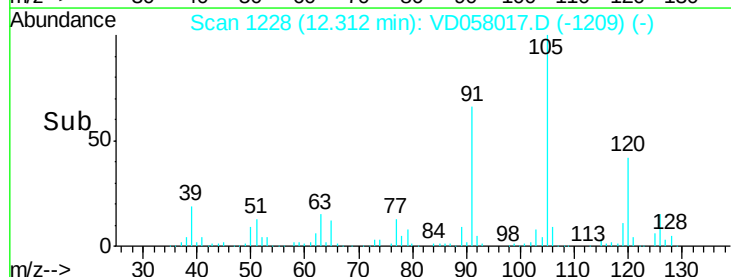
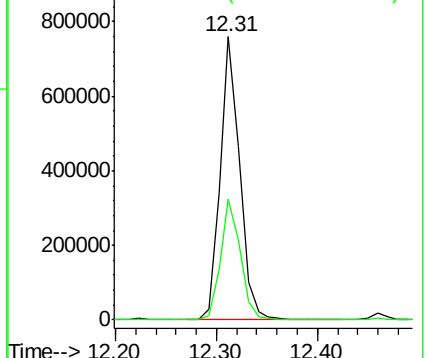
105 100

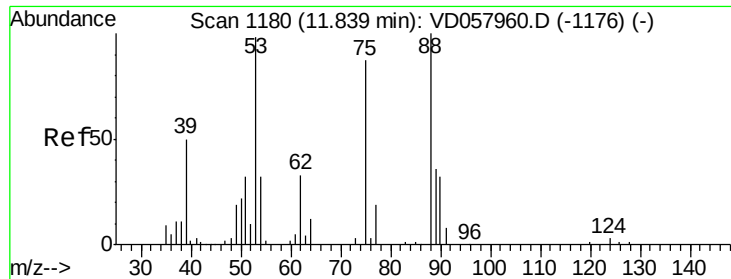
120 42.6 22.0 66.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 72.31 ug/l

RT: 11.84 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

S39-0177MSD

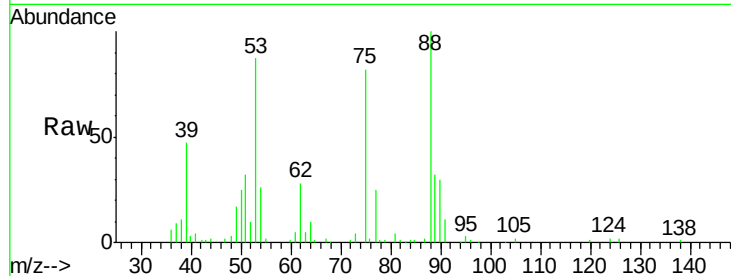
Tot Ion: 75 Resp: 93299

Ion Ratio Lower Upper

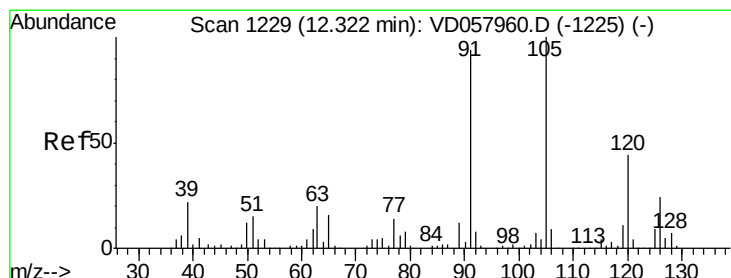
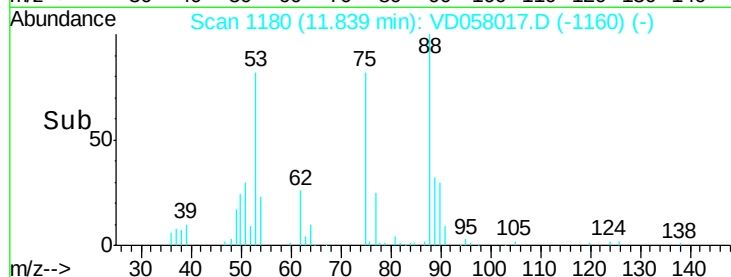
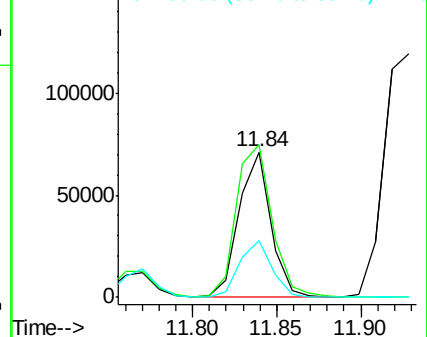
75 100

53 105.4 89.3 133.9

89 38.9 33.3 49.9



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: 63.81 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058017.D

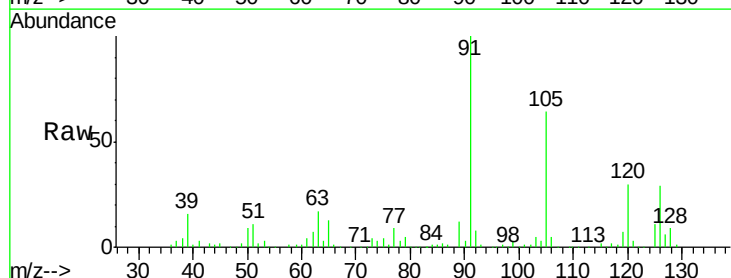
Acq: 8 Jun 2018 14:52

Tgt Ion: 91 Resp: 1043691

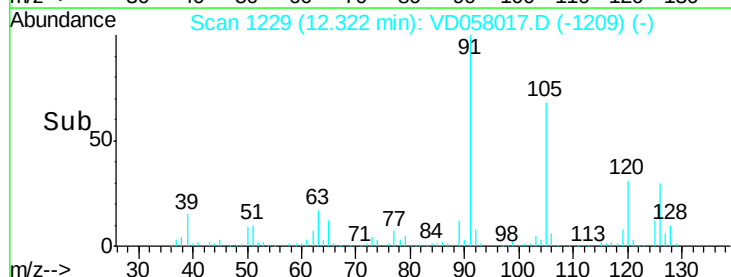
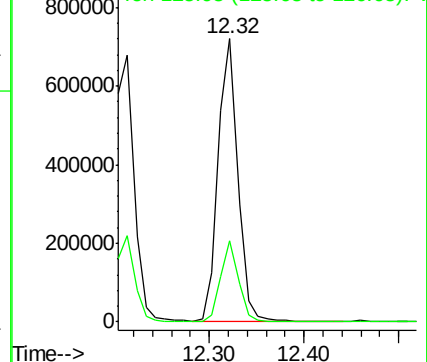
Ion Ratio Lower Upper

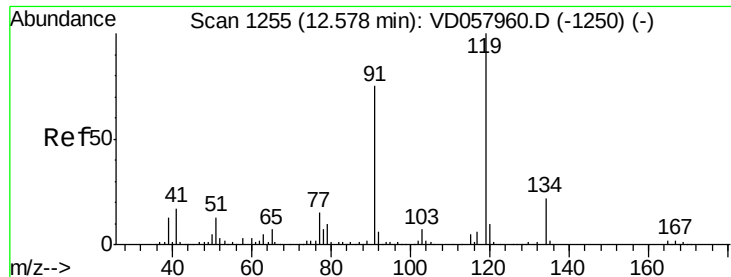
91 100

126 28.7 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

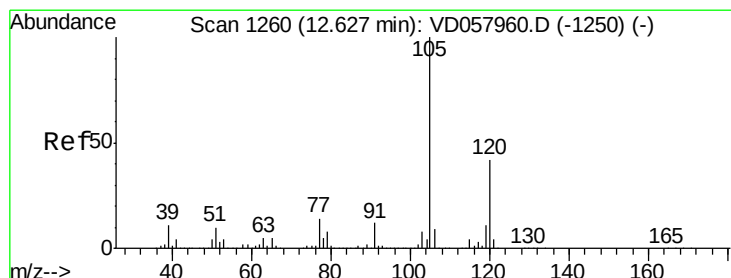
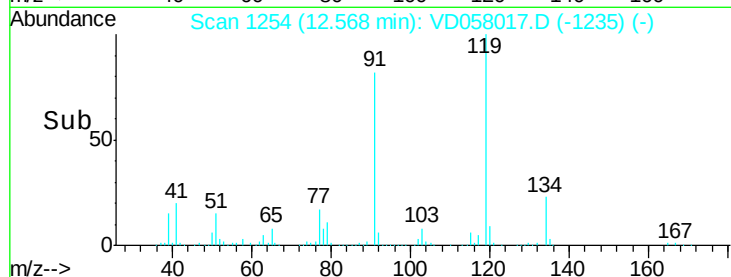
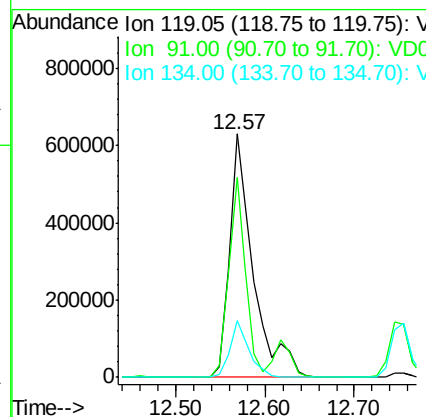
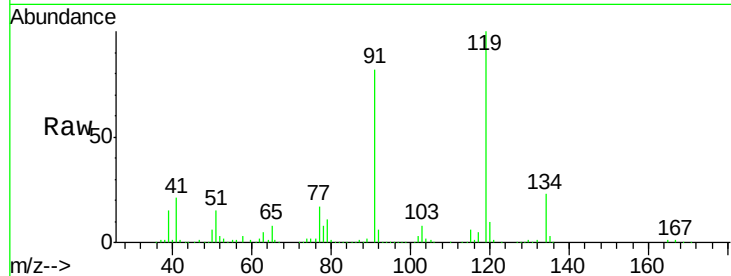




#83
 tert-Butylbenzene
 Concen: 58.21 ug/l
 RT: 12.57 min Scan# 1254
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

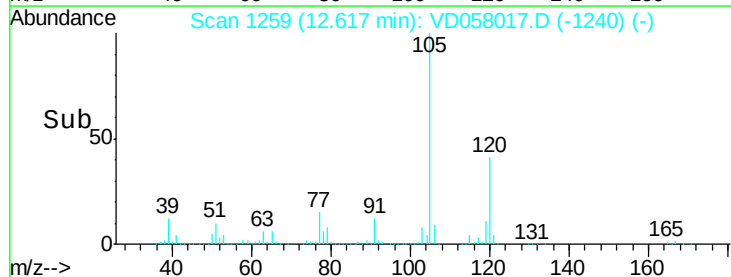
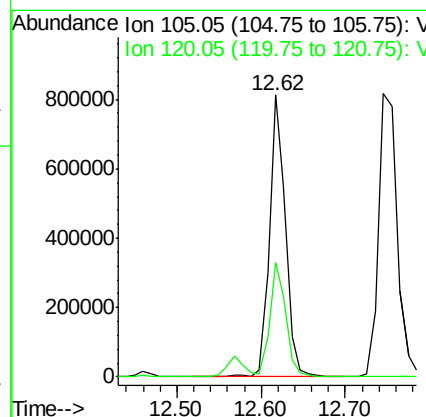
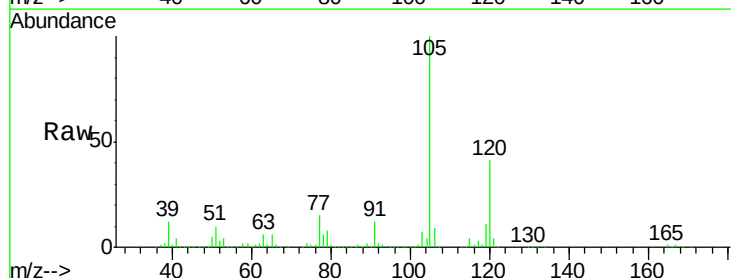
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

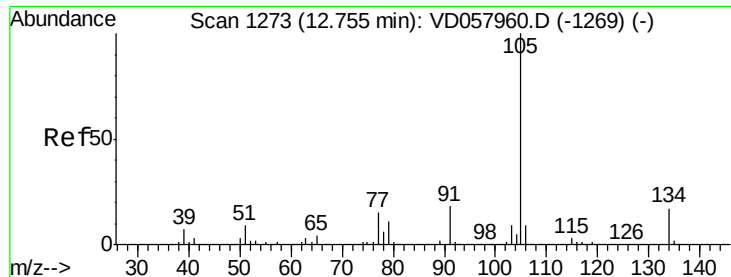
Tot Ion:119 Resp: 1177397
 Ion Ratio Lower Upper
 119 100
 91 82.4 37.6 112.9
 134 23.1 11.2 33.5



#84
 1,2,4-Trimethylbenzene
 Concen: 56.71 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion:105 Resp: 1092273
 Ion Ratio Lower Upper
 105 100
 120 40.6 21.2 63.6





#85

sec-Butylbenzene

Concen: 51.75 ug/l

RT: 12.75 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

Instrument :

MSVOA_D

ClientSampleId :

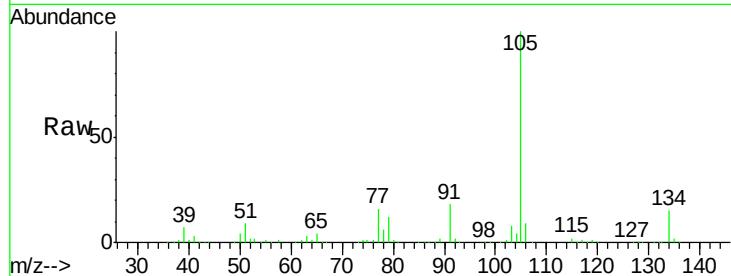
S39-0177MSD

Tot Ion:105 Resp: 1263376

Ion Ratio Lower Upper

105 100

134 15.1 8.3 25.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

12.75

800000

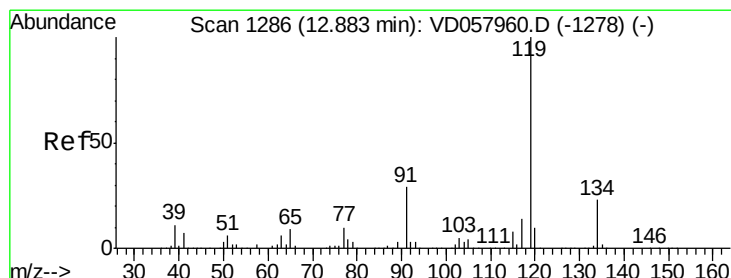
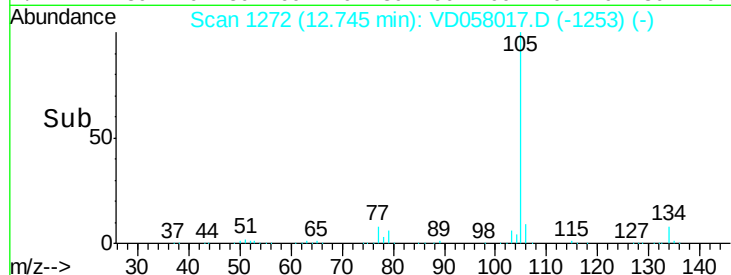
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 51.29 ug/l

RT: 12.88 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VD058017.D

Acq: 8 Jun 2018 14:52

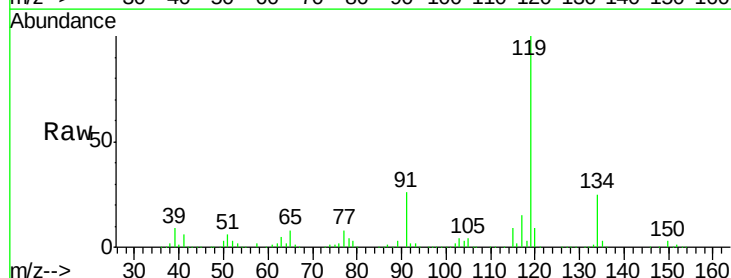
Tgt Ion:119 Resp: 1009240

Ion Ratio Lower Upper

119 100

134 25.2 11.5 34.4

91 26.3 14.5 43.6



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

12.88

1000000

800000

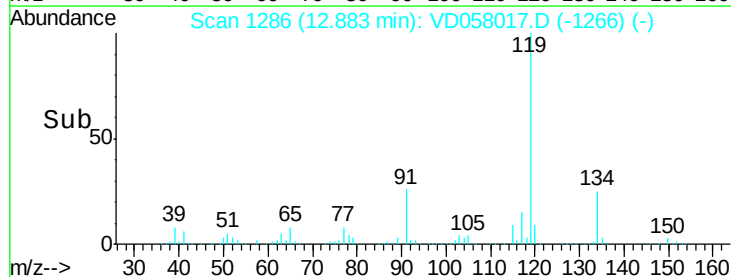
600000

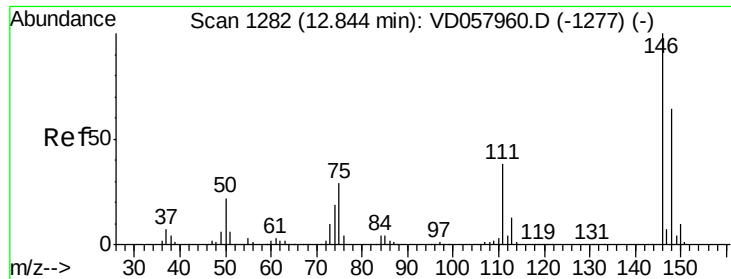
400000

200000

0

Time-->

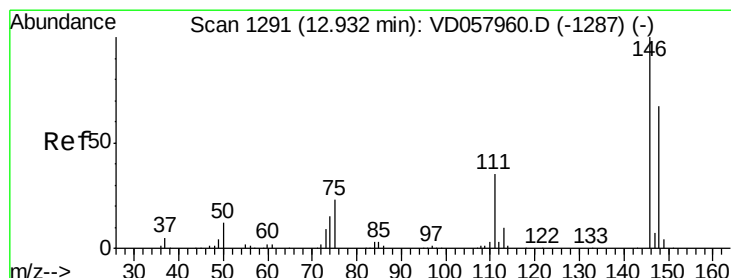
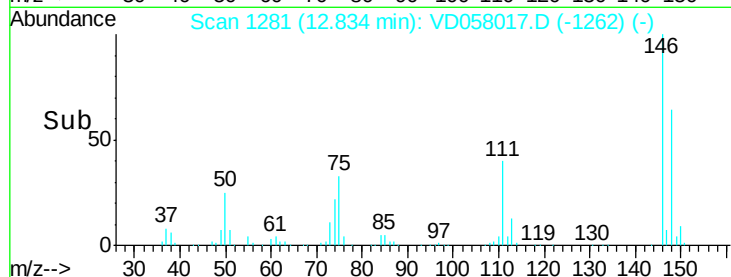
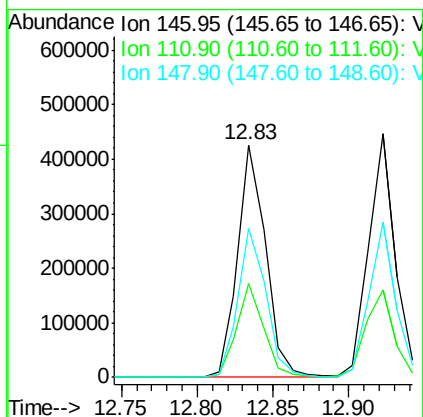
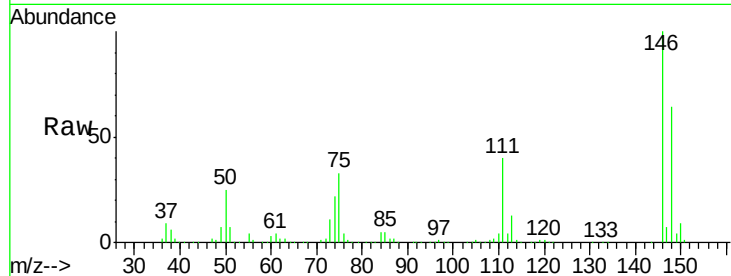




#87
 1,3-Dichlorobenzene
 Concen: 48.20 ug/l
 RT: 12.83 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

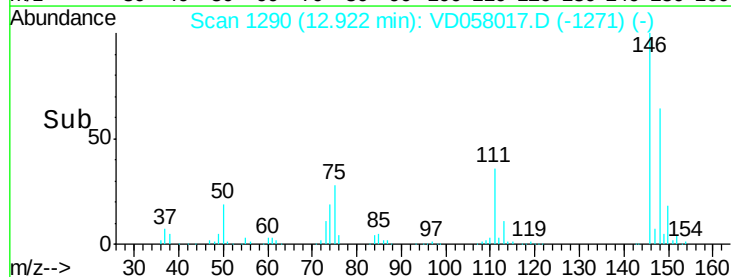
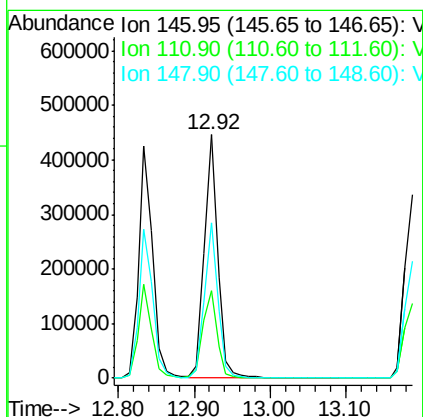
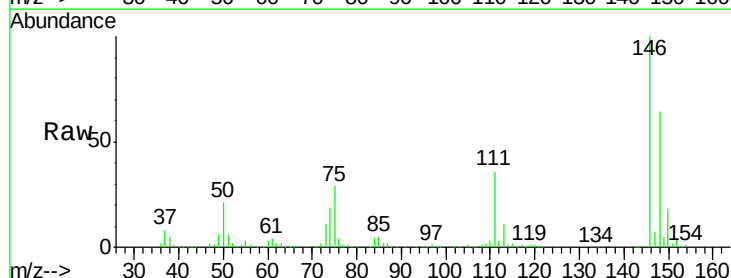
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

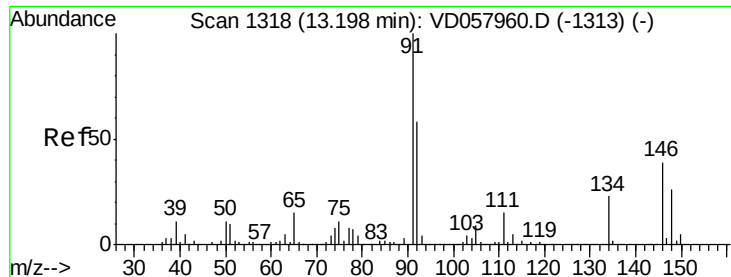
Tot Ion:146 Resp: 554330
 Ion Ratio Lower Upper
 146 100
 111 40.3 19.1 57.3
 148 63.8 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 49.25 ug/l
 RT: 12.92 min Scan# 1290
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion:146 Resp: 551911
 Ion Ratio Lower Upper
 146 100
 111 35.9 17.3 52.0
 148 63.6 33.4 100.2

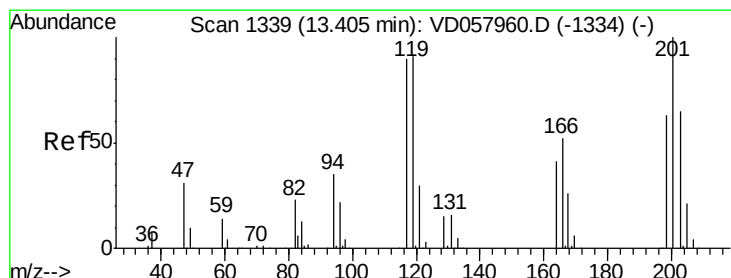
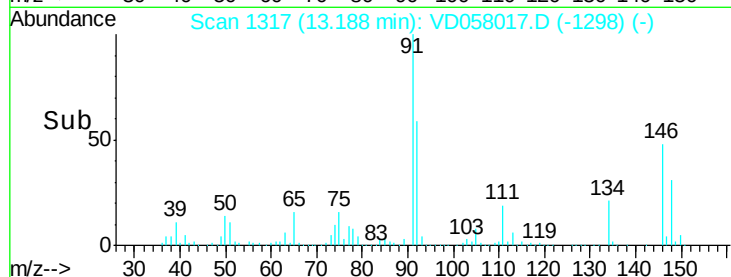
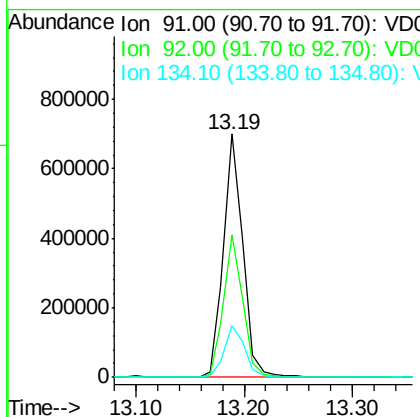
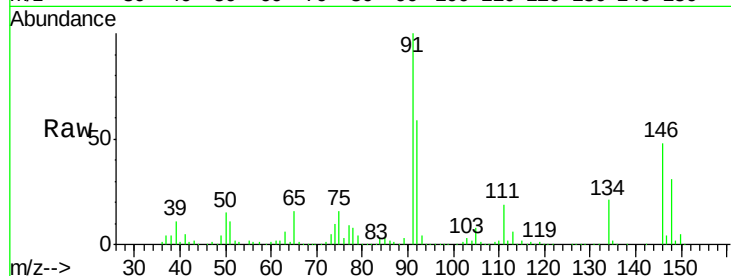




#89
n-Butylbenzene
Concen: 49.38 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

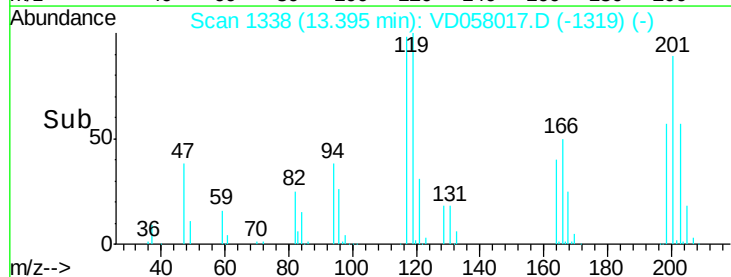
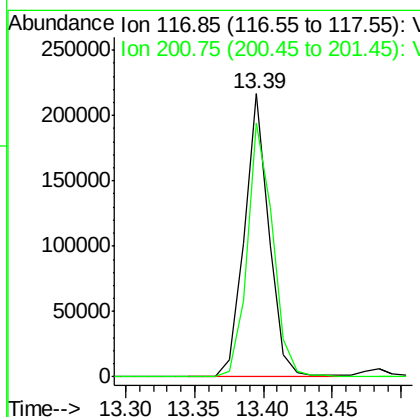
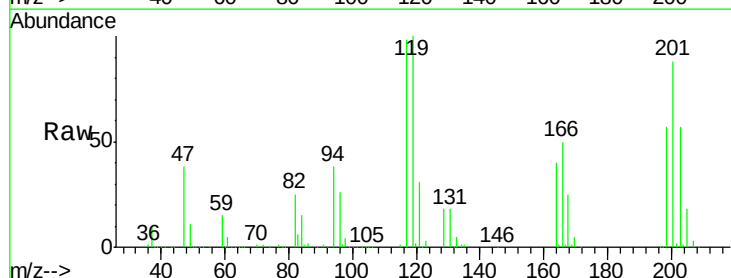
Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

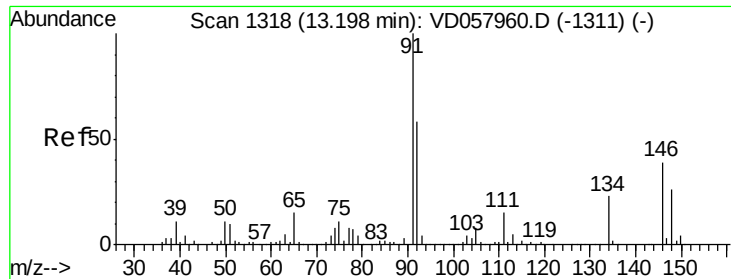
Tot Ion: 91 Resp: 876238
Ion Ratio Lower Upper
91 100
92 58.7 29.2 87.6
134 21.3 11.3 33.9



#90
Hexachloroethane
Concen: 53.94 ug/l
RT: 13.39 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion: 117 Resp: 270895
Ion Ratio Lower Upper
117 100
201 89.8 55.4 166.0

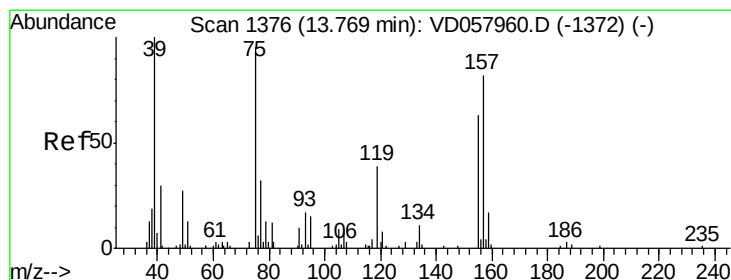
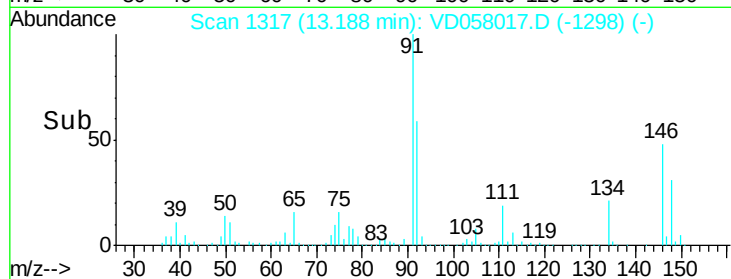
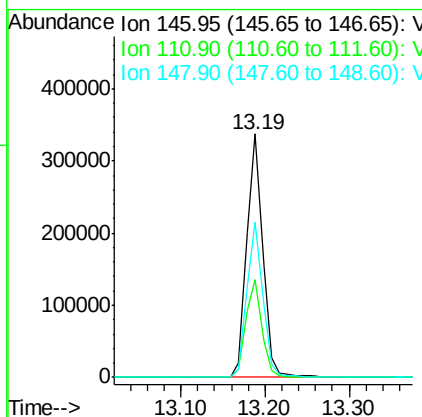
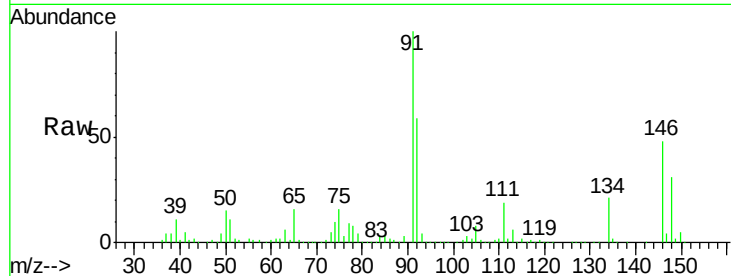




#91
 1,2-Dichlorobenzene
 Concen: 48.35 ug/l
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

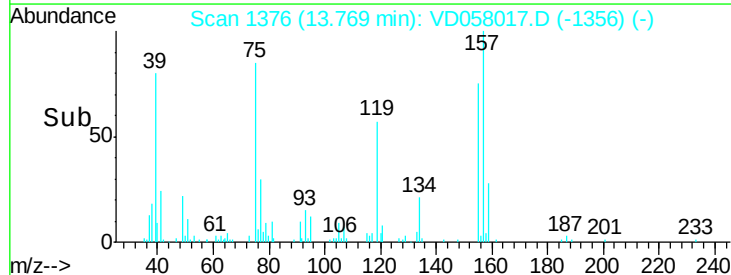
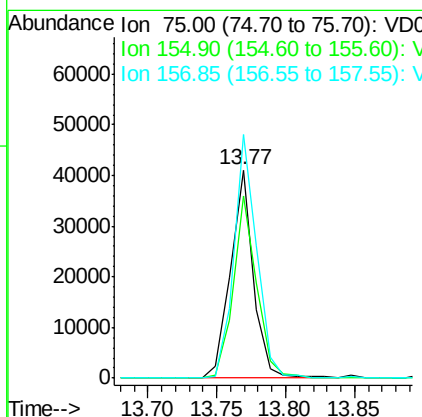
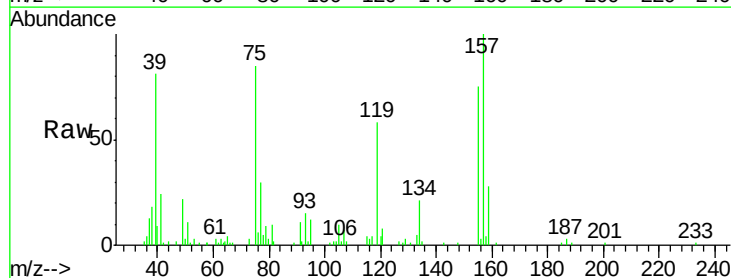
Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

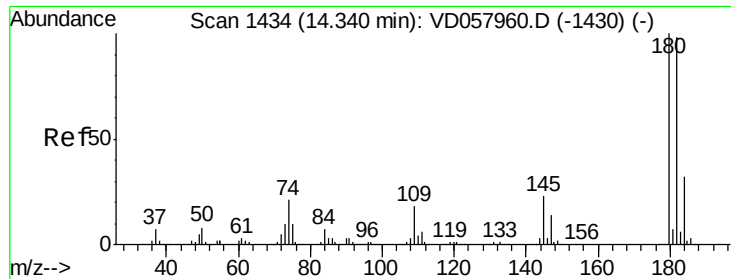
Tot Ion:146 Resp: 449460
 Ion Ratio Lower Upper
 146 100
 111 40.3 19.4 58.2
 148 63.6 32.6 98.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 61.31 ug/l
 RT: 13.77 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion: 75 Resp: 47386
 Ion Ratio Lower Upper
 75 100
 155 87.6 33.4 100.1
 157 117.0 42.9 128.5

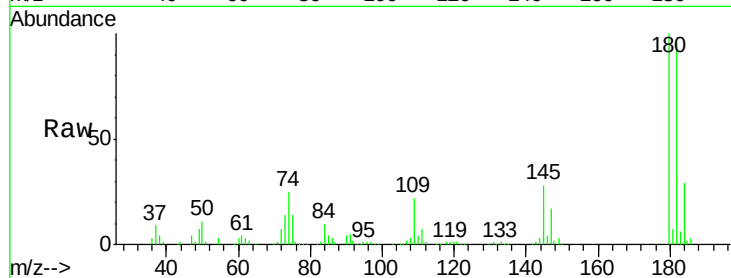




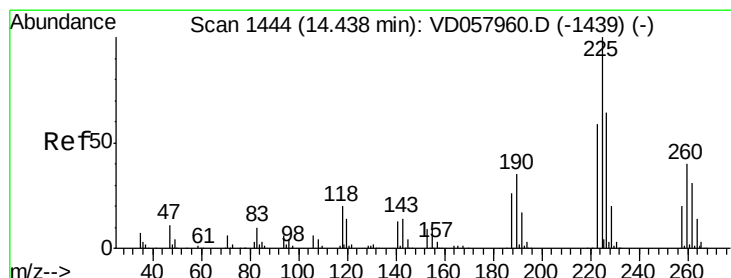
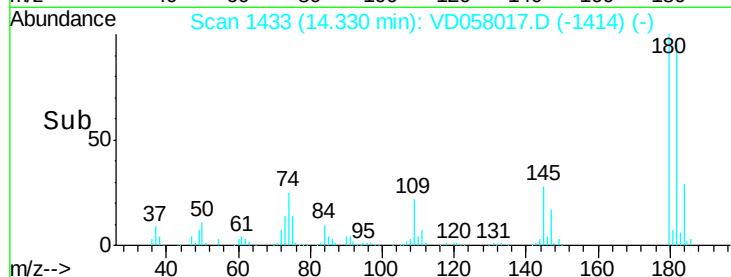
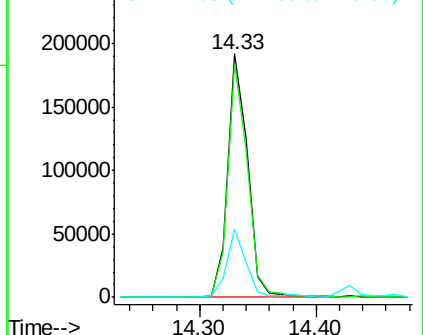
#93
 1,2,4-Trichlorobenzene
 Concen: 26.16 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-0177MSD

Tot Ion:180 Resp: 227206
 Ion Ratio Lower Upper
 180 100
 182 95.7 49.0 147.2
 145 27.9 11.8 35.3

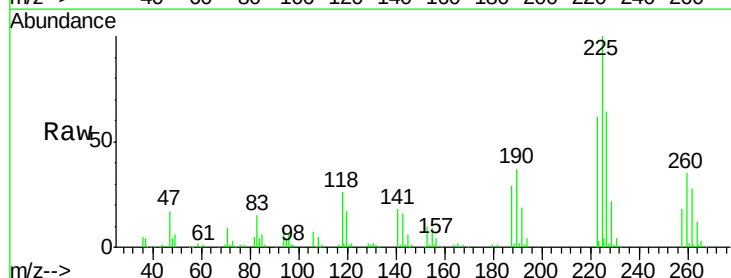


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

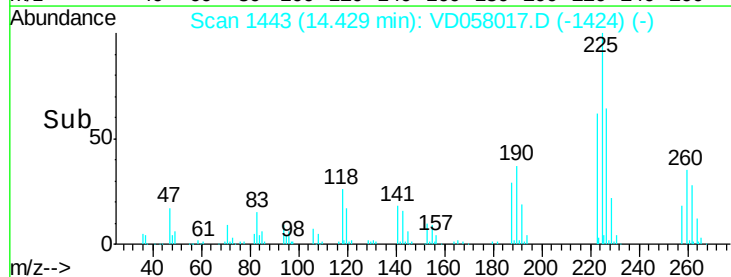
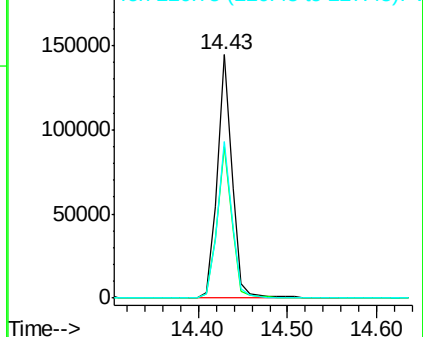


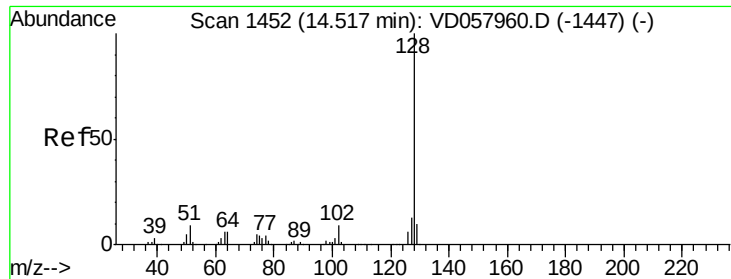
#94
 Hexachlorobutadiene
 Concen: 24.55 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. -0.01 min
 Lab File: VD058017.D
 Acq: 8 Jun 2018 14:52

Tgt Ion:225 Resp: 167665
 Ion Ratio Lower Upper
 225 100
 223 62.3 29.5 88.6
 227 64.2 32.0 96.0



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

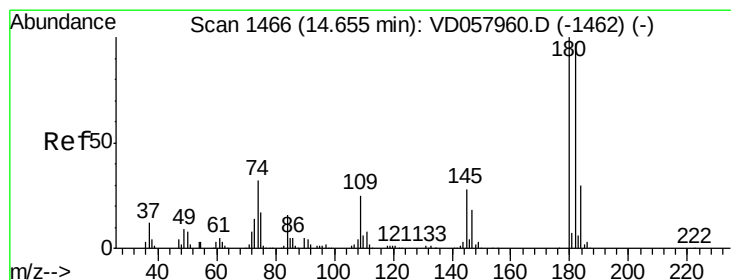
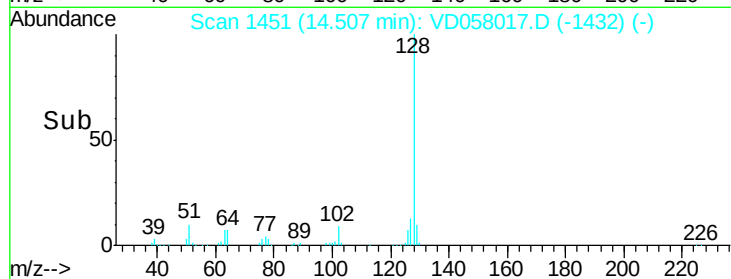
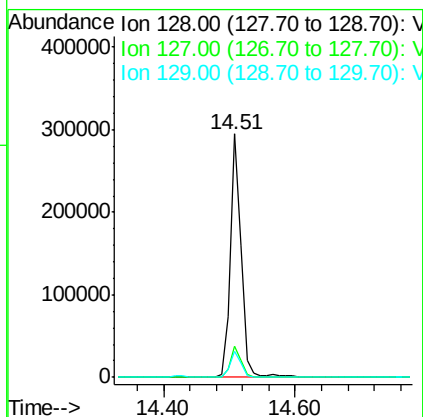
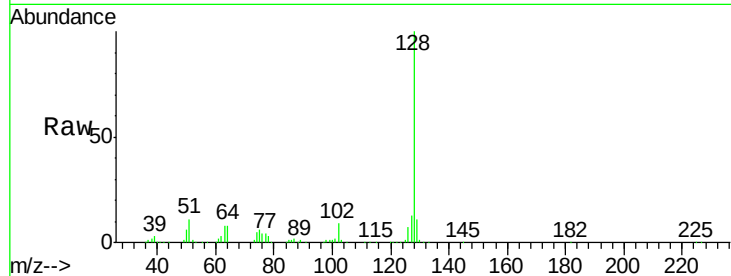




#95
Naphthalene
Concen: 30.55 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Instrument :
MSVOA_D
ClientSampleId :
S39-0177MSD

Tot Ion:128 Resp: 342049
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 10.6 8.2 12.2



#96
1,2,3-Trichlorobenzene
Concen: 23.05 ug/l
RT: 14.65 min Scan# 1466
Delta R.T. 0.00 min
Lab File: VD058017.D
Acq: 8 Jun 2018 14:52

Tgt Ion:180 Resp: 170578
Ion Ratio Lower Upper
180 100
182 100.3 48.5 145.5
145 26.9 14.2 42.8

