

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060718\
 Data File : VD058004.D
 Acq On : 8 Jun 2018 8:17
 Operator : JC/SY
 Sample : J3354-04MSD
 Misc : 14.22g/5ml/MSVOA D/SOIL
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

Quant Time: Jun 08 08:47:32 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	836119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	1118189	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	864813	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	380516	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	410708	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
35) Dibromofluoromethane	5.55	113	425550	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.70	98	999329	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.92	95	394945	44.02	ug/l	0.00
Spiked Amount			Recovery	=	88.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	499867	44.544	ug/l	97
3) Chloromethane	1.49	50	258040	46.689	ug/l	98
4) Vinyl Chloride	1.57	62	266424	49.801	ug/l	99
5) Bromomethane	1.81	94	122132	58.249	ug/l	97
6) Chloroethane	1.90	64	122053	57.826	ug/l	100
7) Trichlorofluoromethane	2.10	101	395647	54.103	ug/l	96
8) Diethyl Ether	2.36	74	78159	57.533	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.57	101	234945	53.863	ug/l	98
10) Methyl Iodide	2.70	142	293271	52.107	ug/l	95
11) Tert butyl alcohol	3.27	59	58881	262.945	ug/l	96
12) 1,1-Dichloroethene	2.56	96	168118	50.134	ug/l	93
13) Acrolein	2.48	56	10548	32.891	ug/l	93
14) Allyl chloride	2.93	41	358676	46.367	ug/l	99
15) Acrylonitrile	3.36	53	337801	257.859	ug/l	94
16) Acetone	2.62	43	303137	251.707	ug/l	99
17) Carbon Disulfide	2.76	76	546221	44.964	ug/l	99
18) Methyl Acetate	2.94	43	171738	73.716	ug/l	97
19) Methyl tert-butyl Ether	3.41	73	808688	54.806	ug/l	99
20) Methylene Chloride	3.08	84	185557	56.441	ug/l	92
21) trans-1,2-Dichloroethene	3.39	96	338386	45.305	ug/l	99
22) Diisopropyl ether	4.07	45	1633818	53.313	ug/l	99
23) Vinyl Acetate	4.02	43	3276523	206.926	ug/l	99
24) 1,1-Dichloroethane	3.97	63	877993	52.128	ug/l	98
25) 2-Butanone	4.83	43	666196	243.406	ug/l	99
26) 2,2-Dichloropropane	4.80	77	636459	45.872	ug/l	93
27) cis-1,2-Dichloroethene	4.80	96	424464	47.916	ug/l	97
28) Bromochloromethane	5.15	49	386986	53.086	ug/l	99
29) Tetrahydrofuran	5.19	42	370874	258.496	ug/l	97
30) Chloroform	5.32	83	898594	53.012	ug/l	97
31) Cyclohexane	5.59	56	655929	45.127	ug/l	97
32) 1,1,1-Trichloroethane	5.51	97	739370	52.094	ug/l	98
36) 1,1-Dichloropropene	5.75	75	573362	46.541	ug/l	96
37) Ethyl Acetate	4.92	43	319267	47.495	ug/l	98
38) Carbon Tetrachloride	5.72	117	626054	51.564	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.27	83	549708	45.012	ug/l	97
40) Benzene	6.01	78	1477673	51.345	ug/l	100
41) Methacrylonitrile	5.13	41	156927	51.056	ug/l	96
42) 1,2-Dichloroethane	6.12	62	583252	50.125	ug/l	99
43) Isopropyl Acetate	7.61	43	419954	47.696	ug/l #	98
44) Trichloroethene	6.98	130	396797	47.203	ug/l	99
45) 1,2-Dichloropropane	7.34	63	423495	52.946	ug/l	92
46) Dibromomethane	7.46	93	253511	49.338	ug/l	99
47) Bromodichloromethane	7.73	83	643878	53.519	ug/l	97
48) Methyl methacrylate	7.50	41	288040	53.151	ug/l	98
49) 1,4-Dioxane	7.48	88	46459	1034.836	ug/l #	83
51) 4-Methyl-2-Pentanone	8.59	43	1478521	261.799	ug/l	99
52) Toluene	8.80	92	814772	49.330	ug/l	98
53) t-1,3-Dichloropropene	9.18	75	457812	44.168	ug/l	99
54) cis-1,3-Dichloropropene	8.35	75	582993	47.741	ug/l	98
55) 1,1,2-Trichloroethane	9.45	97	287676	53.817	ug/l	98
56) Ethyl methacrylate	9.30	69	357531	54.526	ug/l	97
57) 1,3-Dichloropropane	9.65	76	465909	49.695	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.18	63	851264	256.962	ug/l	100
59) 2-Hexanone	9.77	43	1052267	254.248	ug/l	98
60) Dibromochloromethane	9.95	129	408457	54.187	ug/l	97
61) 1,2-Dibromoethane	10.09	107	306386	49.841	ug/l	92
64) Tetrachloroethene	9.51	164	392128	50.719	ug/l	96
65) Chlorobenzene	10.72	112	870126	49.700	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.84	131	363238	54.002	ug/l	99
67) Ethyl Benzene	10.85	91	1536004	48.562	ug/l	100
68) m/p-Xylenes	11.00	106	1034283	100.307	ug/l	97
69) o-Xylene	11.40	106	531116	51.892	ug/l	98
70) Styrene	11.43	104	804181	47.463	ug/l	98
71) Bromoform	11.59	173	261530	51.685	ug/l	98
73) Isopropylbenzene	11.76	105	1408345	55.879	ug/l	99
74) N-amyl acetate	11.63	43	537488	55.267	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.07	83	353070	64.253	ug/l	97
76) 1,2,3-Trichloropropane	12.11	75	331239	57.950	ug/l	95
77) Bromobenzene	12.04	156	415689	55.720	ug/l	85
78) n-propylbenzene	12.14	91	1715932	52.321	ug/l	98
79) 2-Chlorotoluene	12.20	91	1025993	54.837	ug/l	99
80) 1,3,5-Trimethylbenzene	12.31	105	1095397	55.730	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.84	75	74732	52.786	ug/l	96
82) 4-Chlorotoluene	12.32	91	1066961	59.225	ug/l	92
83) tert-Butylbenzene	12.57	119	1247559	56.212	ug/l	96
84) 1,2,4-Trimethylbenzene	12.62	105	1168645	55.298	ug/l	97
85) sec-Butylbenzene	12.75	105	1311407	48.961	ug/l	98
86) p-Isopropyltoluene	12.87	119	1073096	49.708	ug/l	99
87) 1,3-Dichlorobenzene	12.83	146	626128	49.615	ug/l	99
88) 1,4-Dichlorobenzene	12.92	146	583043	47.418	ug/l	98
89) n-Butylbenzene	13.19	91	941061	48.236	ug/l	96
90) Hexachloroethane	13.40	117	294201	53.394	ug/l	89
91) 1,2-Dichlorobenzene	13.19	146	547532	53.688	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.77	75	51120	60.278	ug/l	65

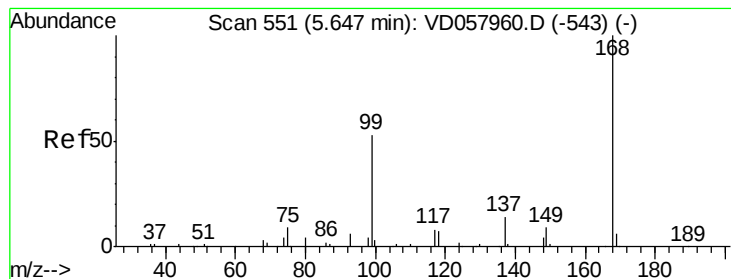
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	411843	43.224	ug/l	95
94) Hexachlorobutadiene	14.43	225	234814	31.332	ug/l	97
95) Naphthalene	14.51	128	614820	50.047	ug/l	98
96) 1,2,3-Trichlorobenzene	14.66	180	365307	44.989	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

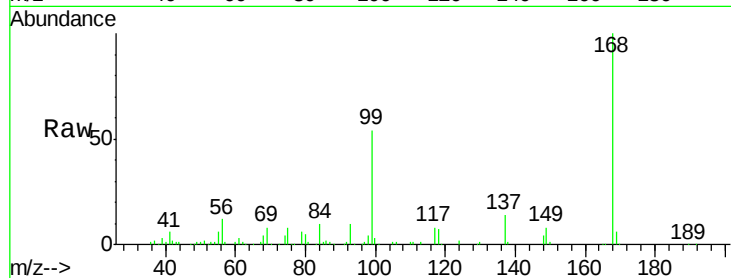
CAS1-SB-02-03-1-27MSD

Tot Ion:168 Resp: 836119

Ion Ratio Lower Upper

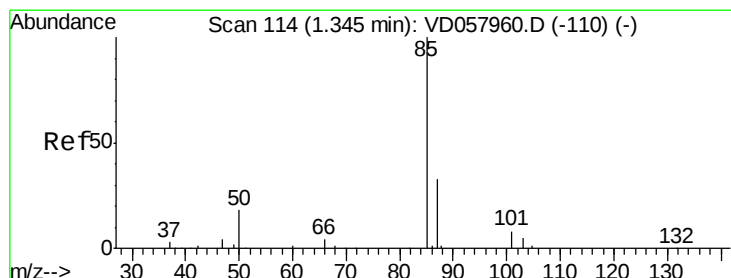
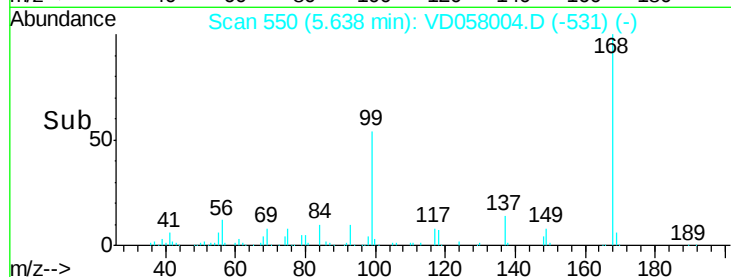
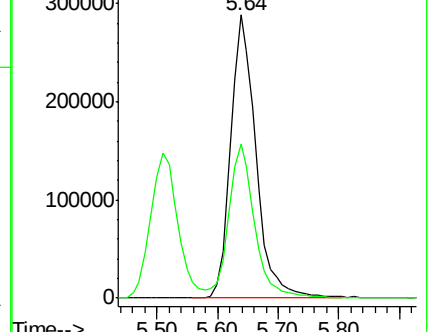
168 100

99 54.3 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: 44.544 ug/l

RT: 1.36 min Scan# 115

Delta R.T. 0.01 min

Lab File: VD058004.D

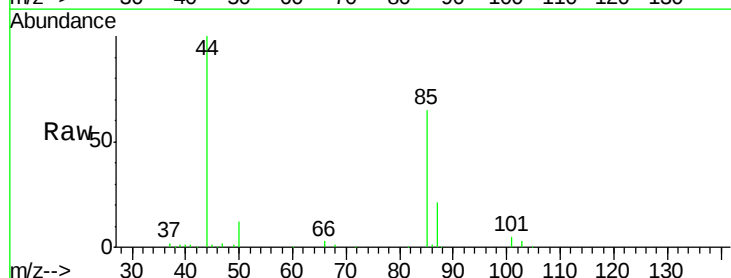
Acq: 8 Jun 2018 8:17

Tgt Ion: 85 Resp: 499867

Ion Ratio Lower Upper

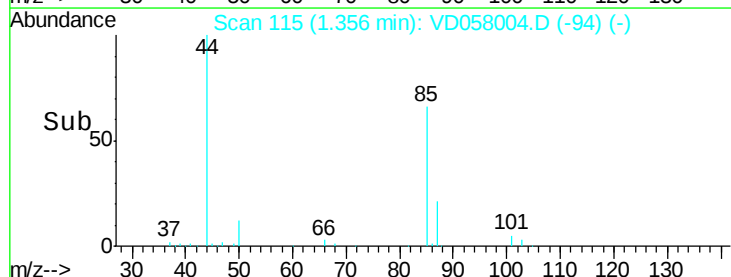
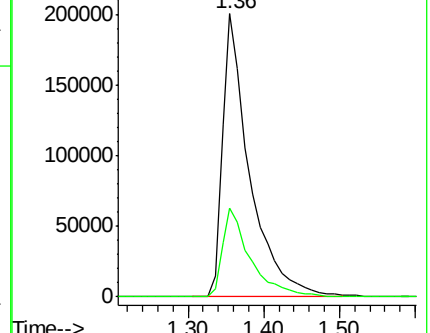
85 100

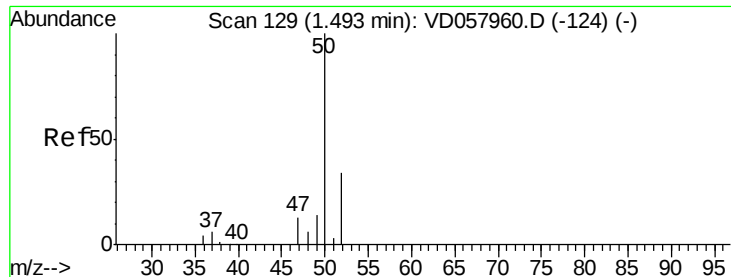
87 31.3 16.4 49.2



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 46.689 ug/l

RT: 1.49 min Scan# 129

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

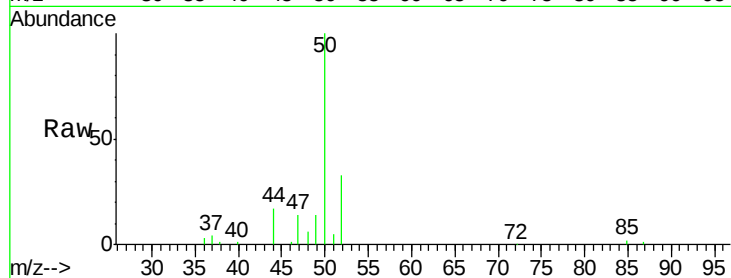
CAS1-SB-02-03-1-27MSD

Tot Ion: 50 Resp: 258040

Ion Ratio Lower Upper

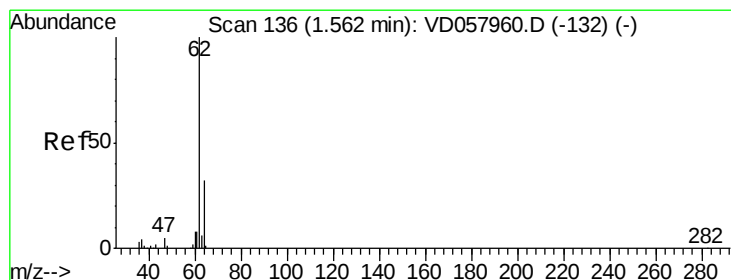
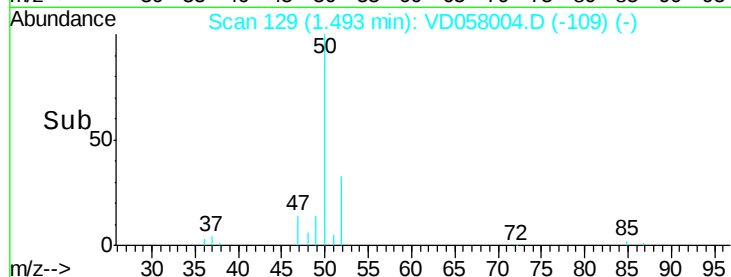
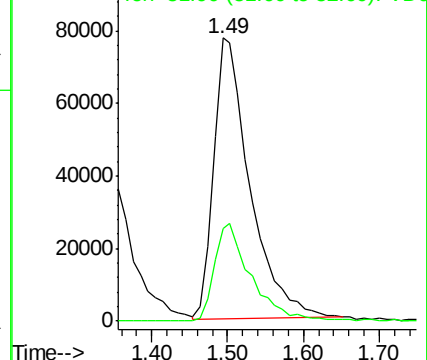
50 100

52 32.8 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: 49.801 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.01 min

Lab File: VD058004.D

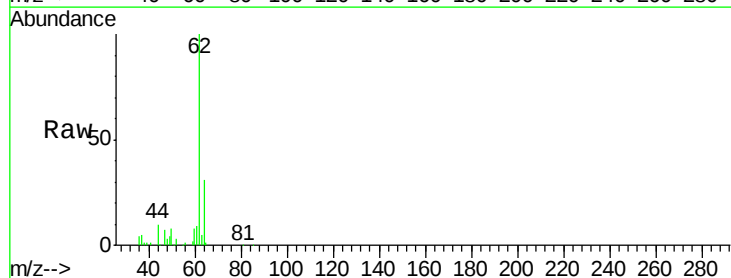
Acq: 8 Jun 2018 8:17

Tgt Ion: 62 Resp: 266424

Ion Ratio Lower Upper

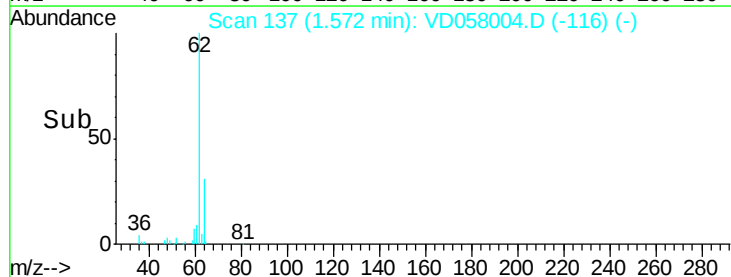
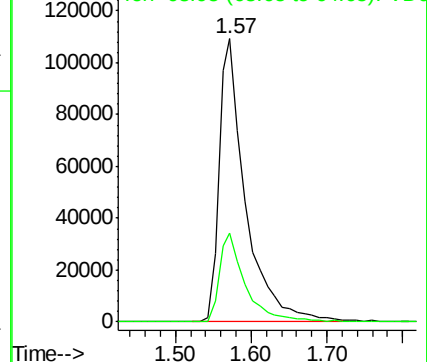
62 100

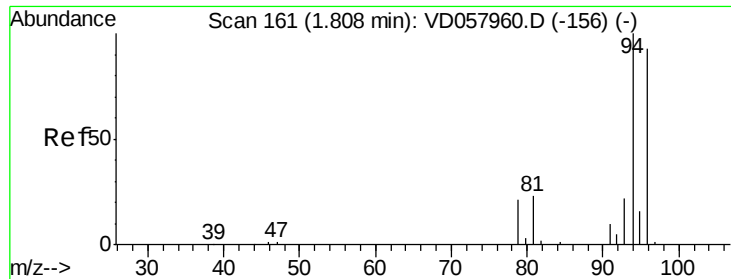
64 31.2 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 58.249 ug/l

RT: 1.81 min Scan# 161

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

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ClientSampleId :

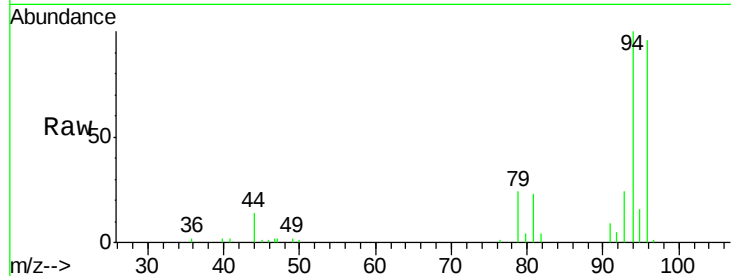
CAS1-SB-02-03-1-27MSD

Tot Ion: 94 Resp: 122132

Ion Ratio Lower Upper

94 100

96 95.6 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.81

50000

40000

30000

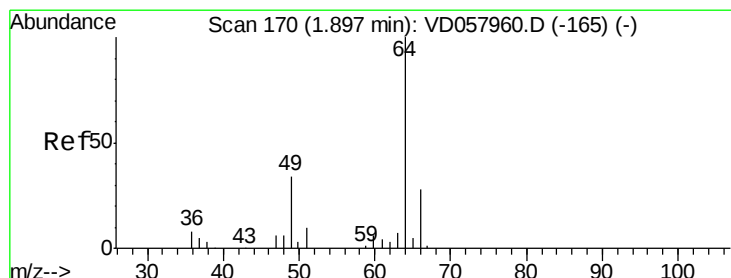
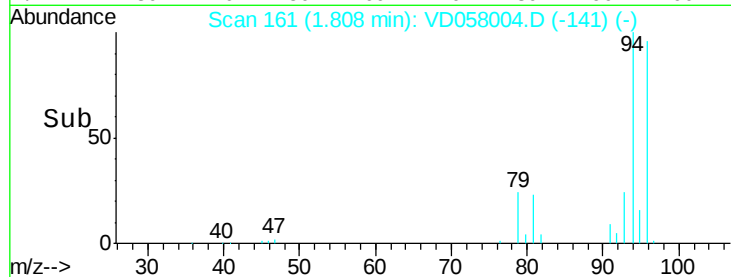
20000

10000

0

Time-->

1.70 1.80 1.90 2.00



#6

Chloroethane

Concen: 57.826 ug/l

RT: 1.90 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD058004.D

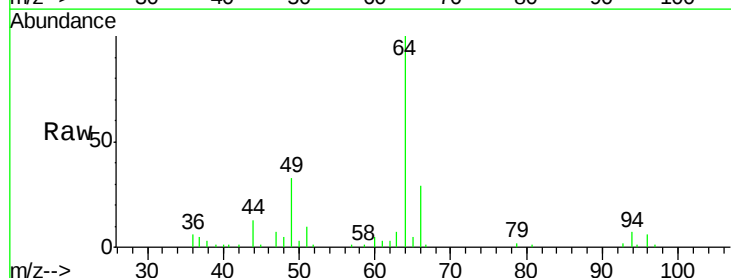
Acq: 8 Jun 2018 8:17

Tgt Ion: 64 Resp: 122053

Ion Ratio Lower Upper

64 100

66 28.7 22.8 34.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.90

60000

50000

40000

30000

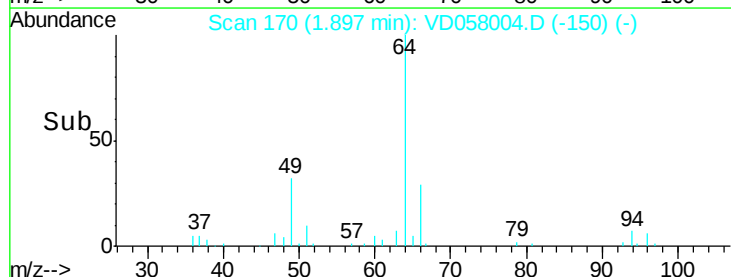
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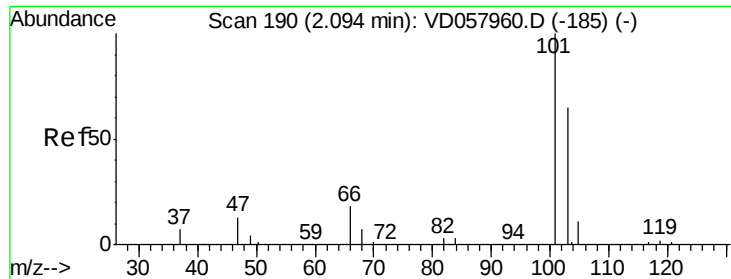
10000

0

Time-->

1.80 1.90 2.00 2.10



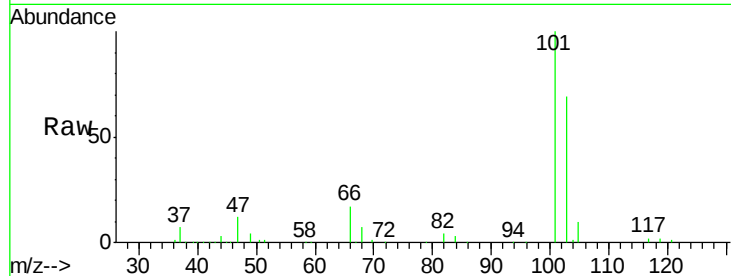


#7

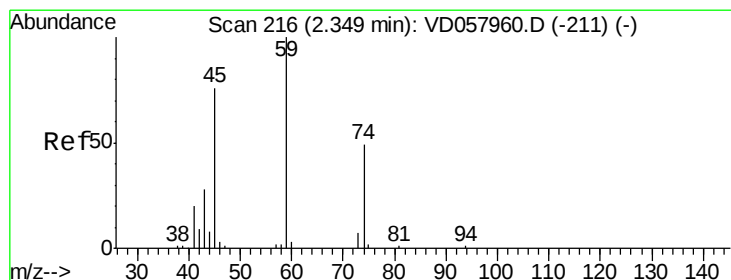
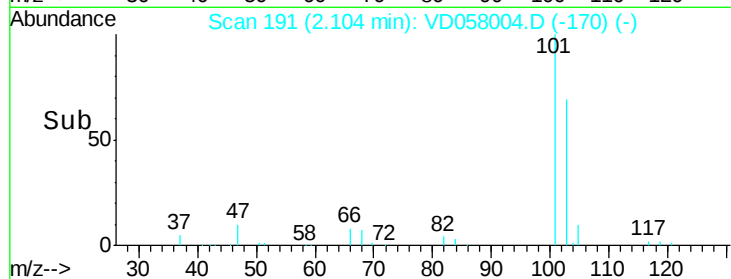
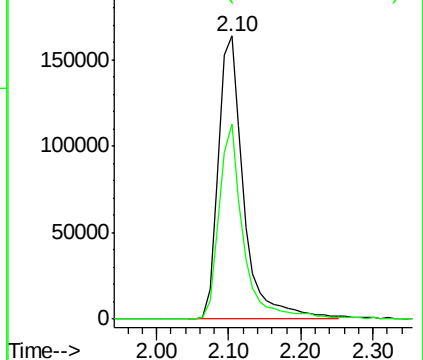
Trichlorofluoromethane
 Concen: 54.103 ug/l
 RT: 2.10 min Scan# 191
 Delta R.T. 0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Instrument :
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 CAS1-SB-02-03-1-27MSD

Tot Ion:101 Resp: 395647
 Ion Ratio Lower Upper
 101 100
 103 68.8 52.4 78.6



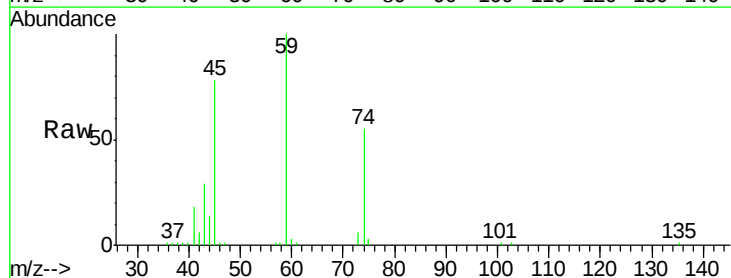
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



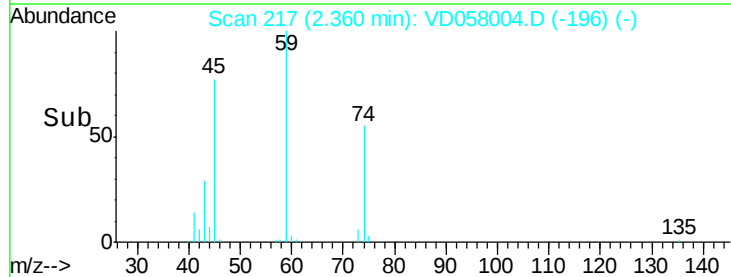
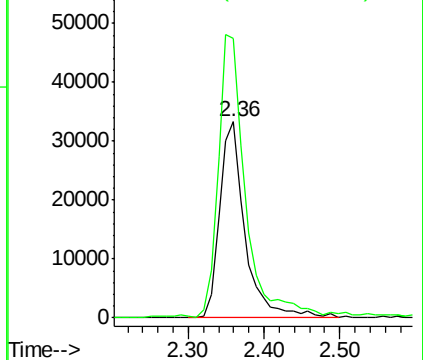
#8

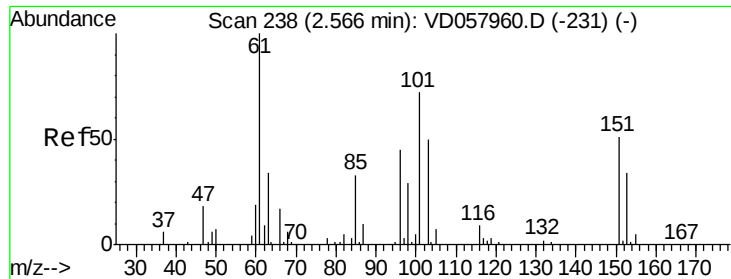
Diethyl Ether
 Concen: 57.533 ug/l
 RT: 2.36 min Scan# 217
 Delta R.T. 0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion: 74 Resp: 78159
 Ion Ratio Lower Upper
 74 100
 45 143.0 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: 53.863 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

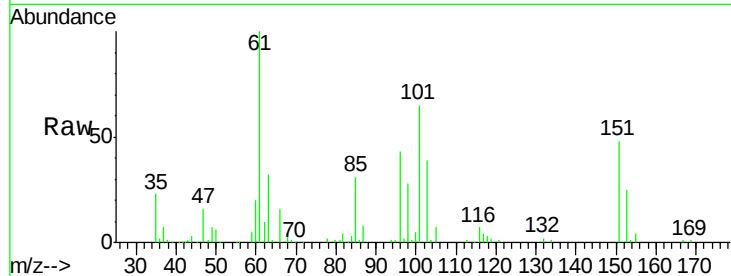
Tot Ion:101 Resp: 234945

Ion Ratio Lower Upper

101 100

85 48.1 37.3 55.9

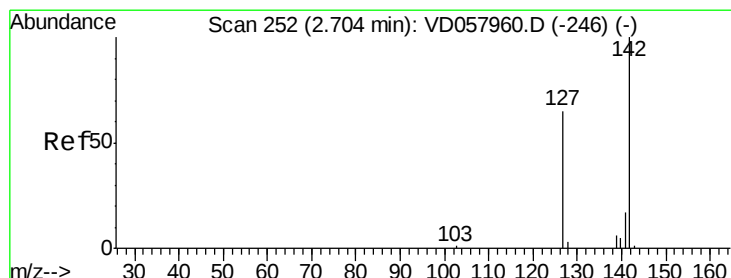
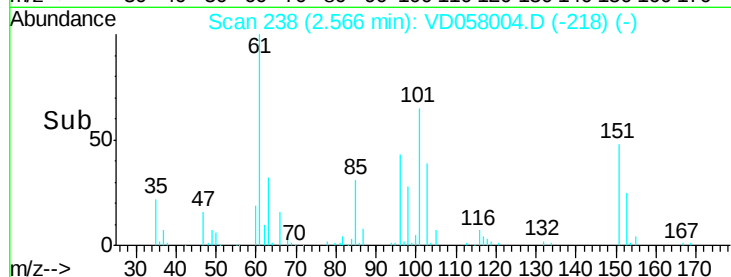
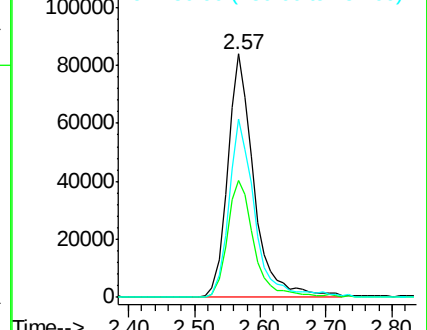
151 73.2 57.0 85.6



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: 52.107 ug/l

RT: 2.70 min Scan# 252

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

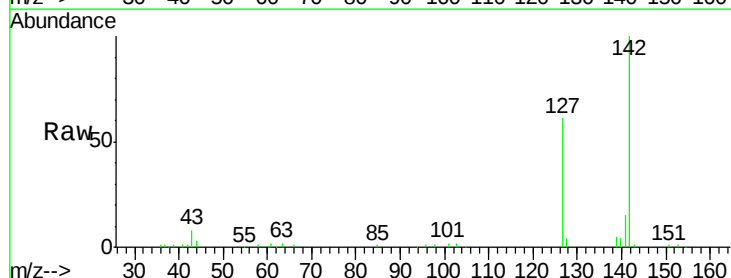
Tgt Ion:142 Resp: 293271

Ion Ratio Lower Upper

142 100

127 61.2 52.0 78.0

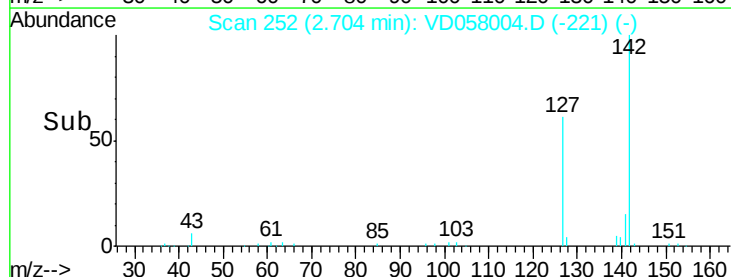
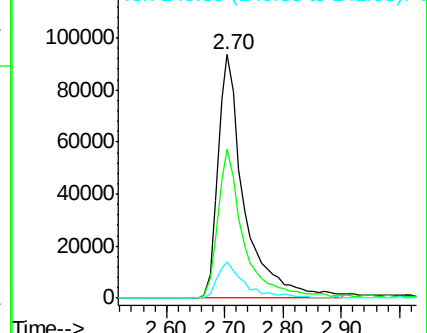
141 14.8 13.2 19.8

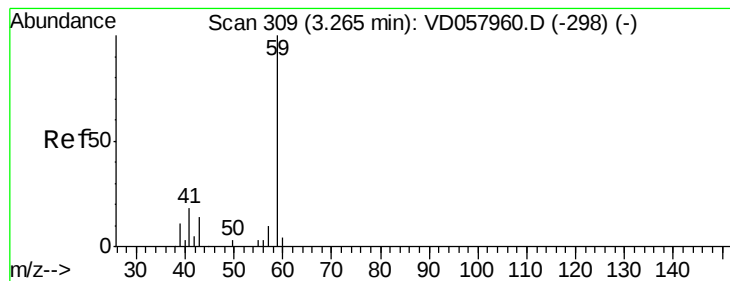


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



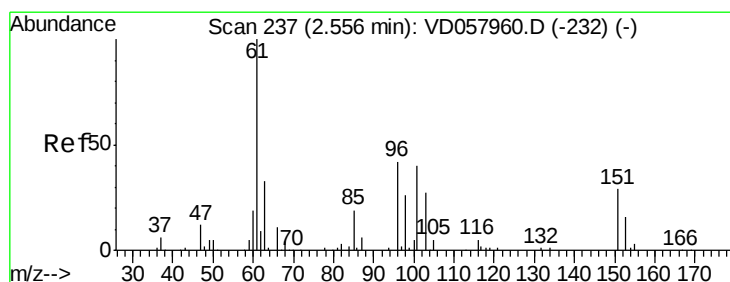
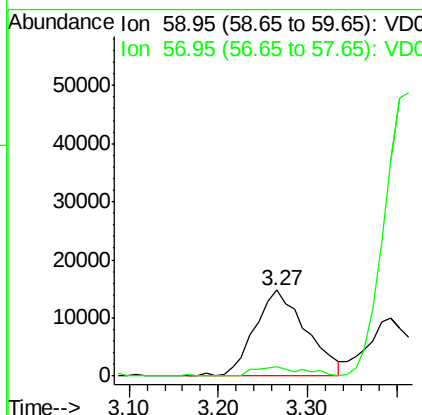
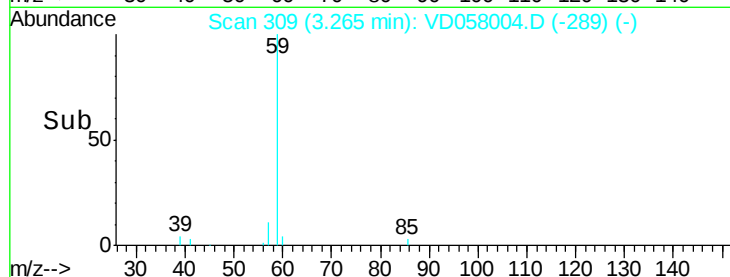
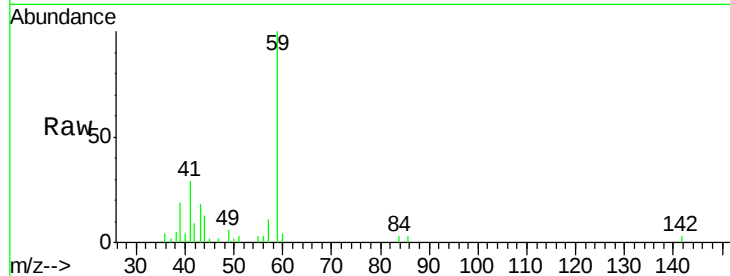


#11

Tert butyl alcohol
Concen: 262.945 ug/l
RT: 3.27 min Scan# 309
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

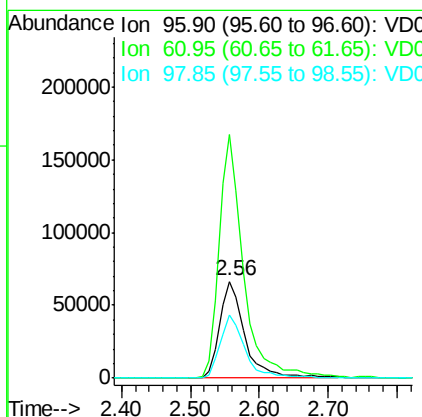
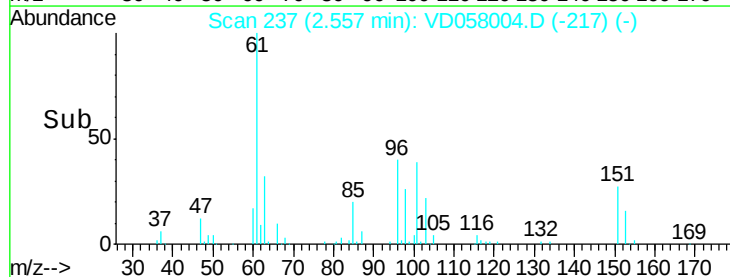
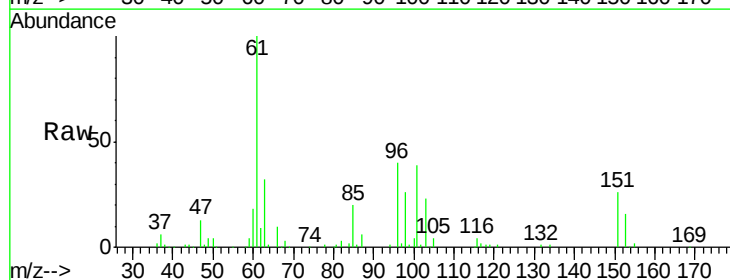
Tot Ion: 59 Resp: 58881
Ion Ratio Lower Upper
59 100
57 11.1 7.8 11.6

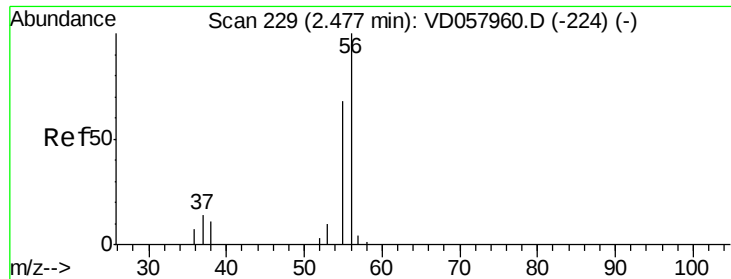


#12

1,1-Dichloroethene
Concen: 50.134 ug/l
RT: 2.56 min Scan# 237
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 96 Resp: 168118
Ion Ratio Lower Upper
96 100
61 251.4 190.2 285.4
98 64.6 49.6 74.4





#13

Acrolein

Concen: 32.891 ug/l

RT: 2.48 min Scan# 229

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

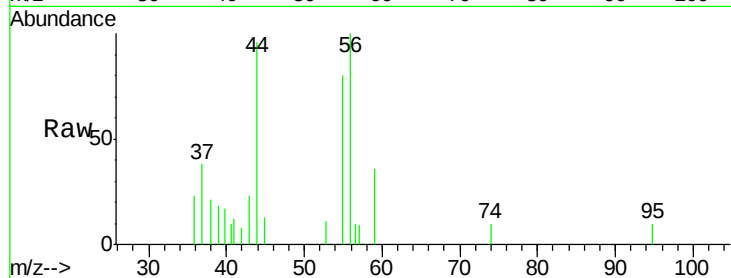
CAS1-SB-02-03-1-27MSD

Tot Ion: 56 Resp: 10548

Ion Ratio Lower Upper

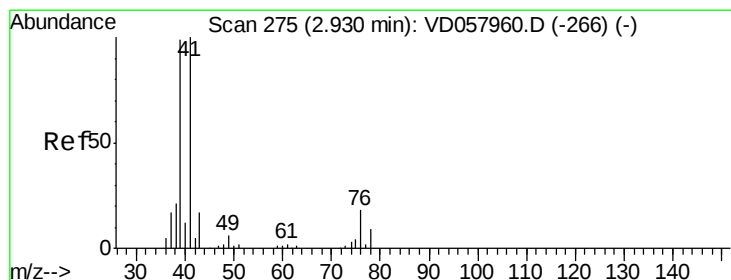
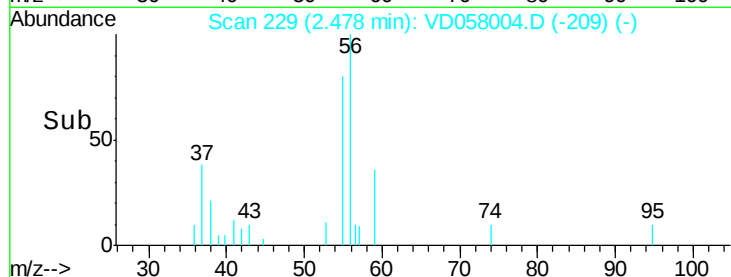
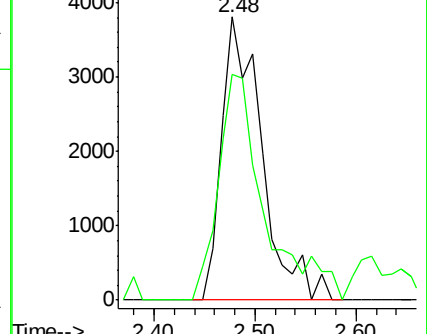
56 100

55 72.8 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: 46.367 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

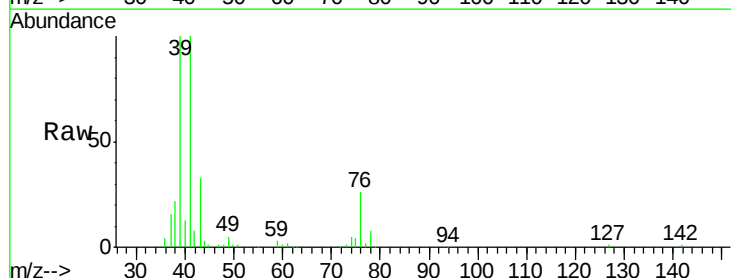
Tgt Ion: 41 Resp: 358676

Ion Ratio Lower Upper

41 100

39 100.1 79.5 119.3

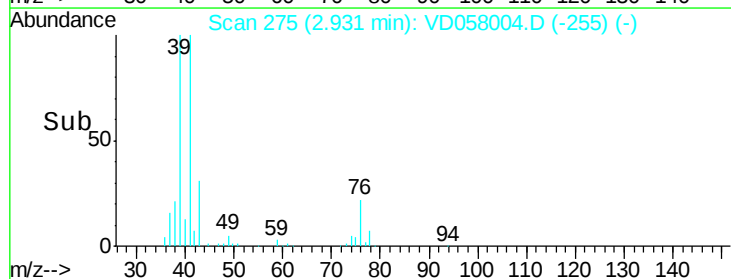
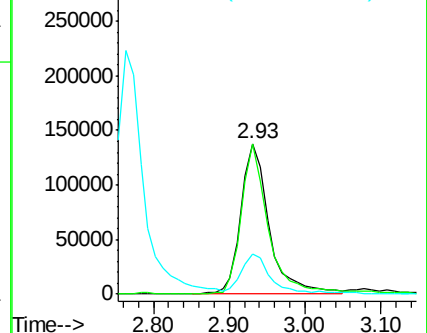
76 26.3 20.7 31.1

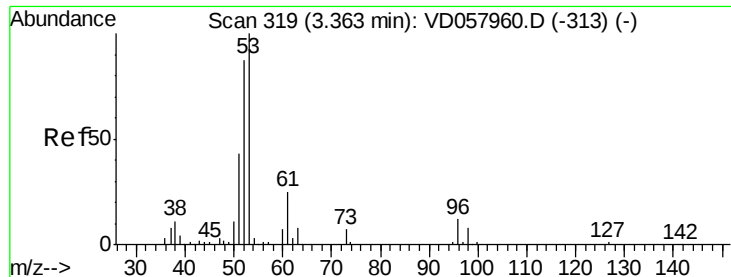


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 257.859 ug/l

RT: 3.36 min Scan# 319

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

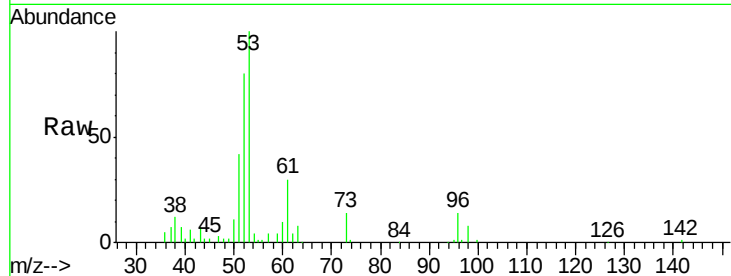
Tot Ion: 53 Resp: 337801

Ion Ratio Lower Upper

53 100

52 79.7 69.9 104.9

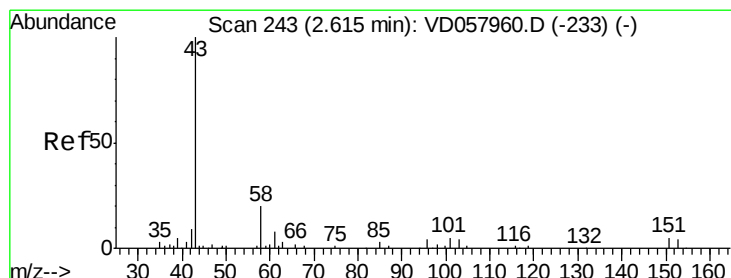
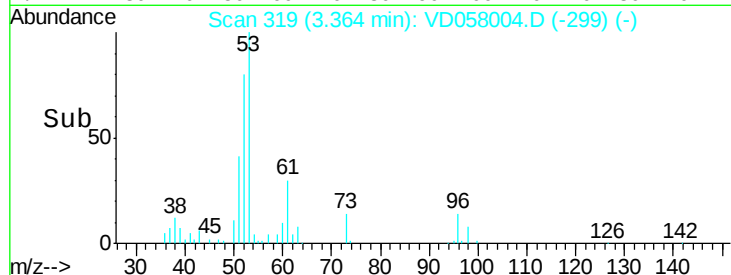
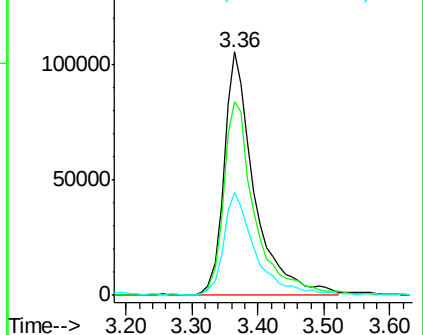
51 42.2 34.3 51.5



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: 251.707 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD058004.D

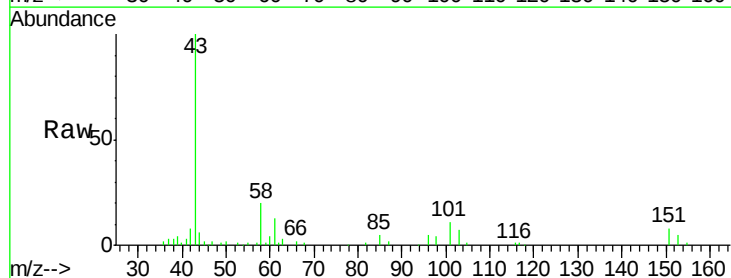
Acq: 8 Jun 2018 8:17

Tgt Ion: 43 Resp: 303137

Ion Ratio Lower Upper

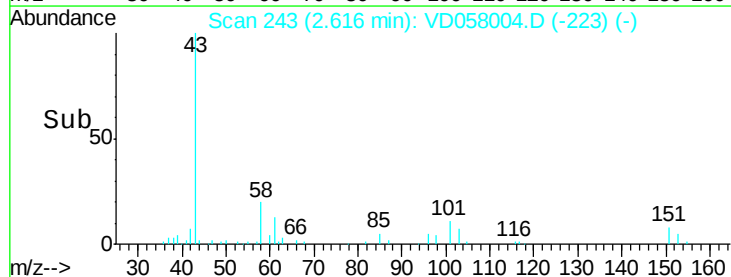
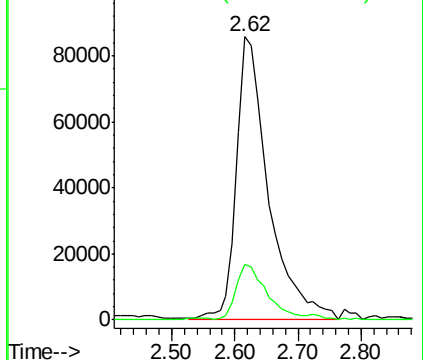
43 100

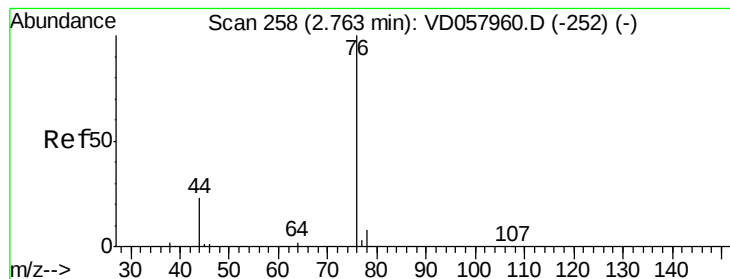
58 19.5 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 44.964 ug/l

RT: 2.76 min Scan# 258

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

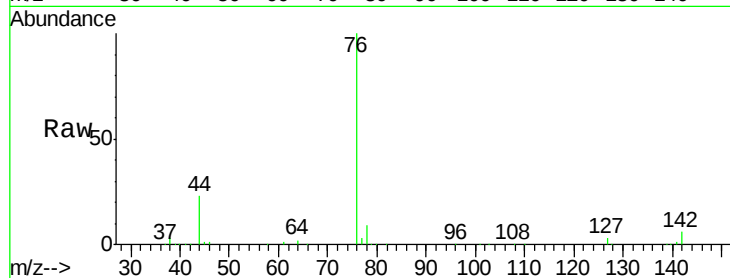
CAS1-SB-02-03-1-27MSD

Tot Ion: 76 Resp: 546221

Ion Ratio Lower Upper

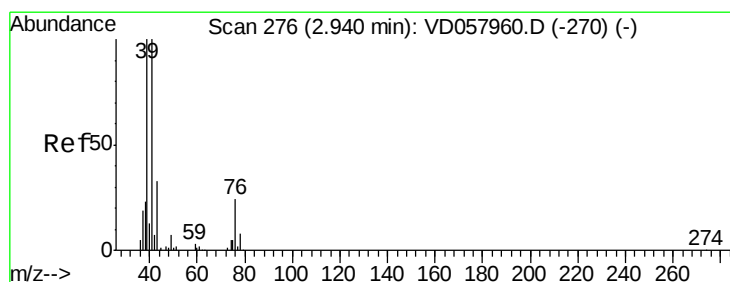
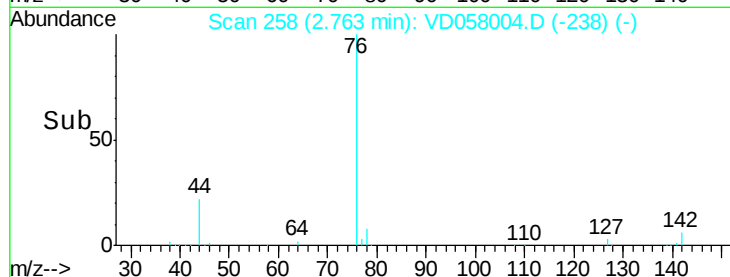
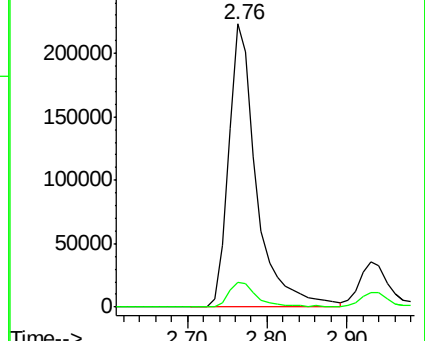
76 100

78 8.6 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: 73.716 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.00 min

Lab File: VD058004.D

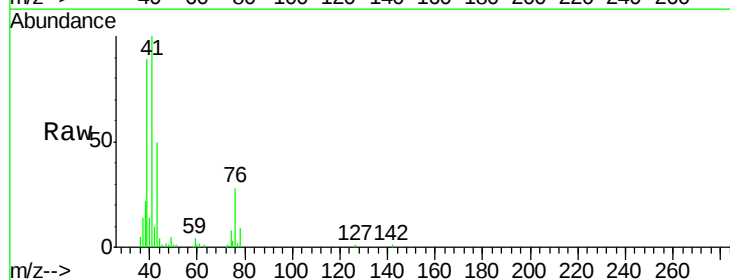
Acq: 8 Jun 2018 8:17

Tgt Ion: 43 Resp: 171738

Ion Ratio Lower Upper

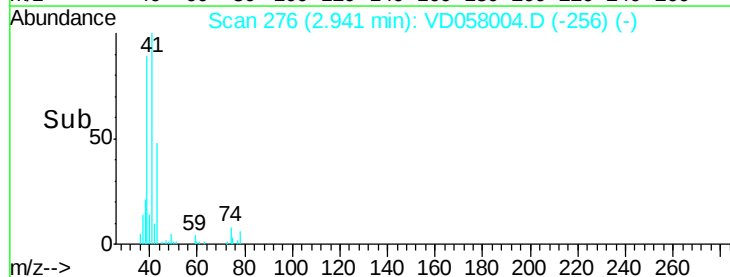
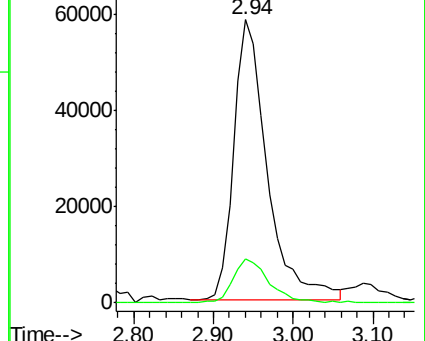
43 100

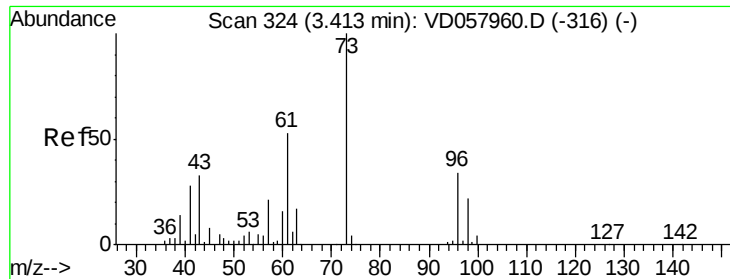
74 15.4 11.2 16.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

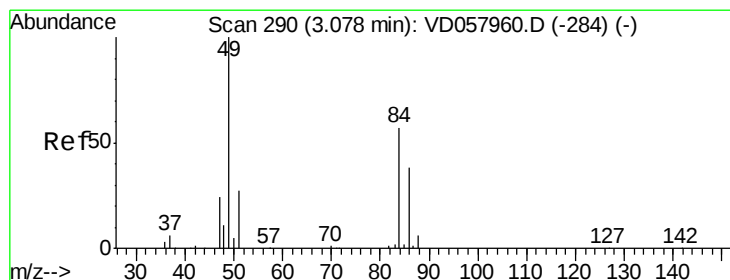
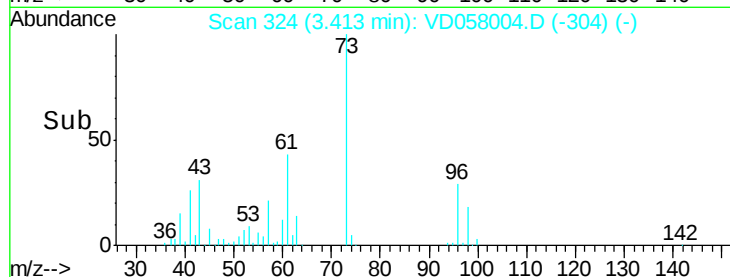
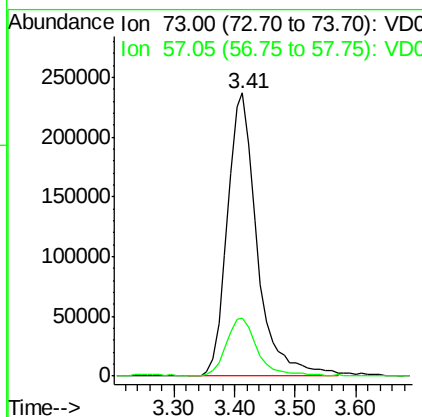
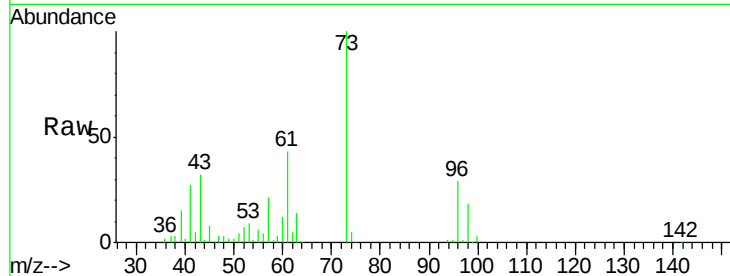




#19
Methvl tert-butvl Ether
Concen: 54.806 ug/l
RT: 3.41 min Scan# 324
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

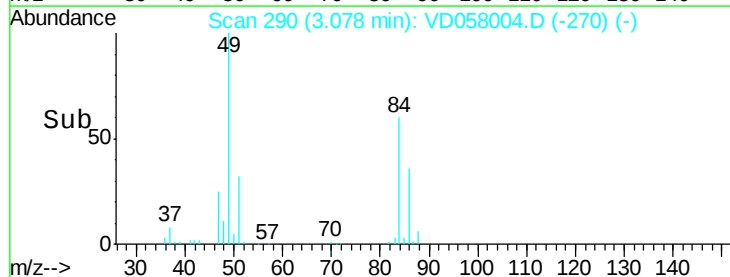
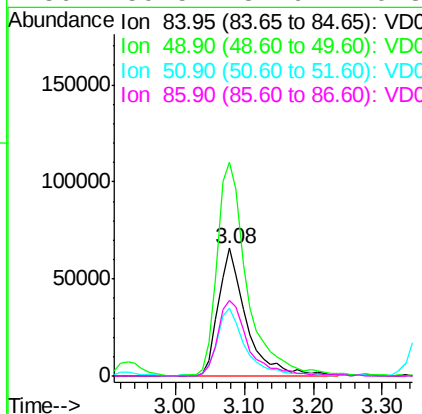
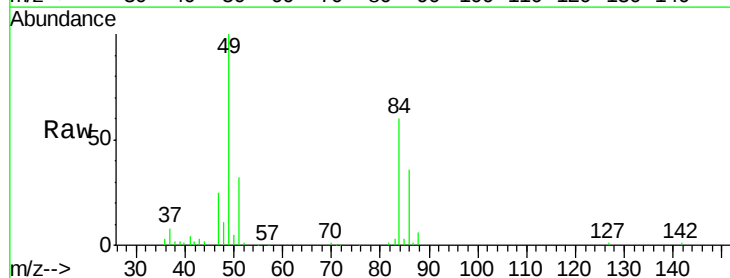
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

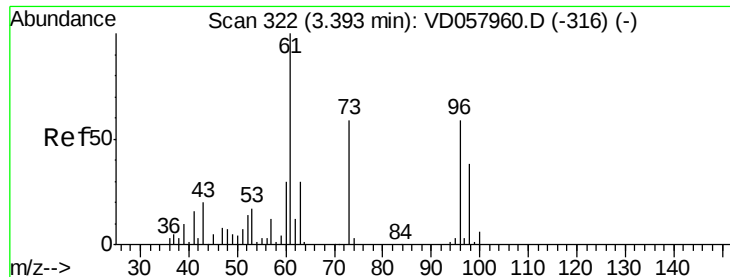
Tot Ion: 73 Resp: 808688
Ion Ratio Lower Upper
73 100
57 20.6 16.7 25.1



#20
Methylene Chloride
Concen: 56.441 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 84 Resp: 185557
Ion Ratio Lower Upper
84 100
49 166.9 141.4 212.0
51 53.5 38.3 57.5
86 59.5 52.9 79.3

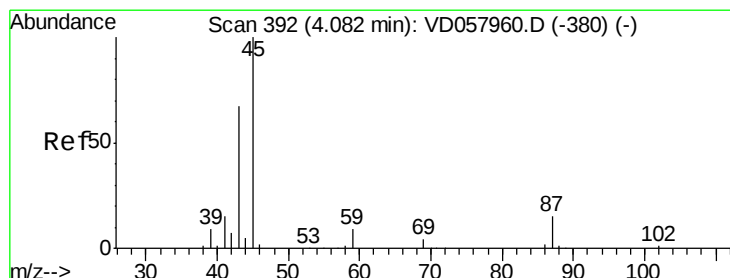
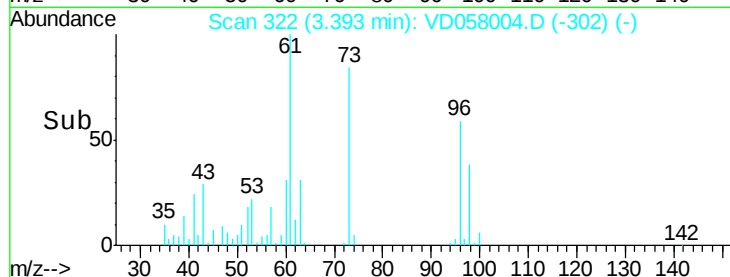
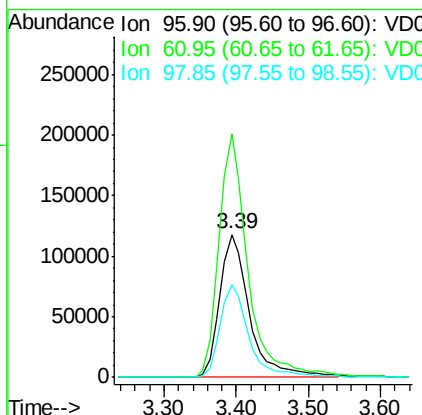
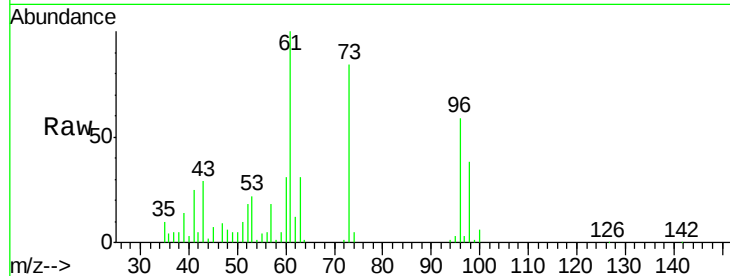




#21
trans-1,2-Dichloroethene
Concen: 45.305 ug/l
RT: 3.39 min Scan# 322
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

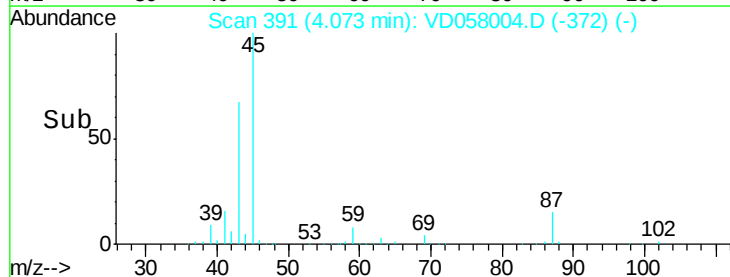
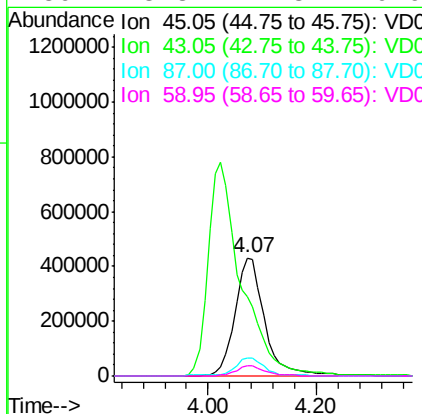
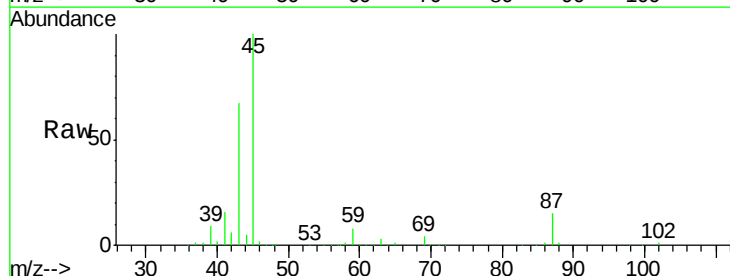
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

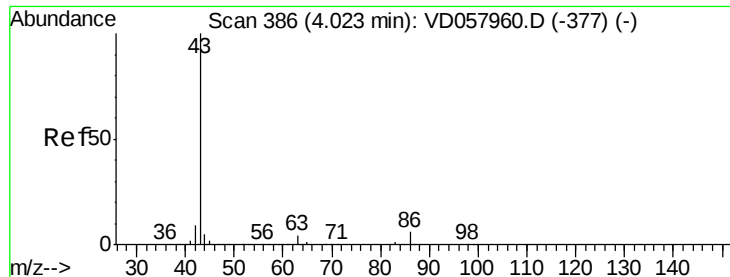
Tot Ion: 96 Resp: 338386
Ion Ratio Lower Upper
96 100
61 170.5 135.2 202.8
98 65.2 51.7 77.5



#22
Diisopropyl ether
Concen: 53.313 ug/l
RT: 4.07 min Scan# 391
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 45 Resp: 1633818
Ion Ratio Lower Upper
45 100
43 66.9 53.8 80.8
87 15.5 12.5 18.7
59 8.3 7.3 10.9





#23

Vinyl Acetate

Concen: 206.926 ug/l

RT: 4.02 min Scan# 386

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

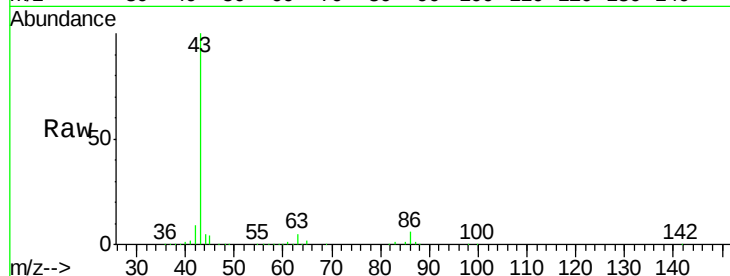
CAS1-SB-02-03-1-27MSD

Tot Ion: 43 Resp: 3276523

Ion Ratio Lower Upper

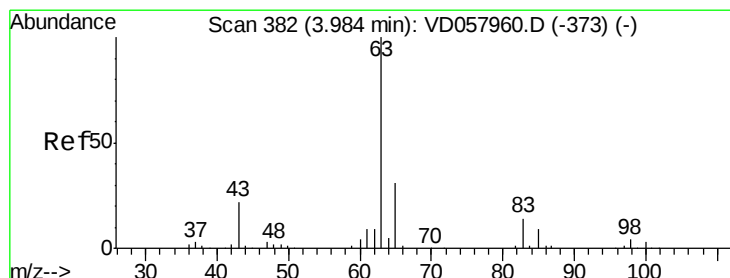
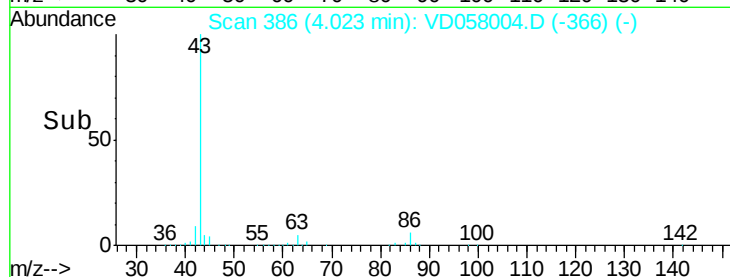
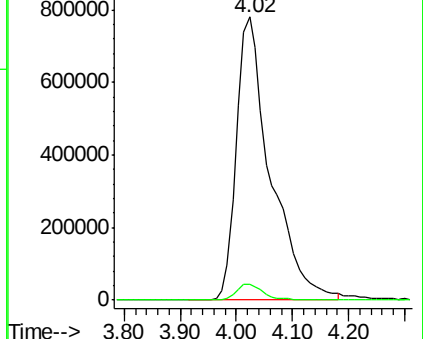
43 100

86 5.7 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 52.128 ug/l

RT: 3.97 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

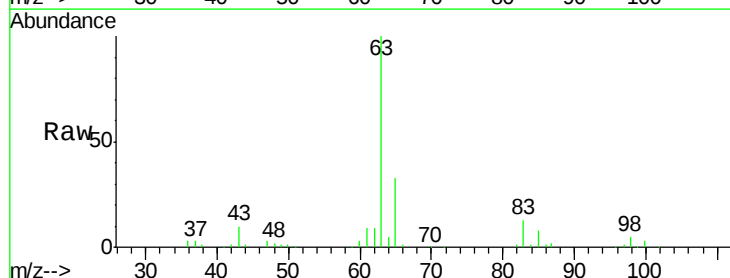
Tgt Ion: 63 Resp: 877993

Ion Ratio Lower Upper

63 100

98 4.9 2.0 5.8

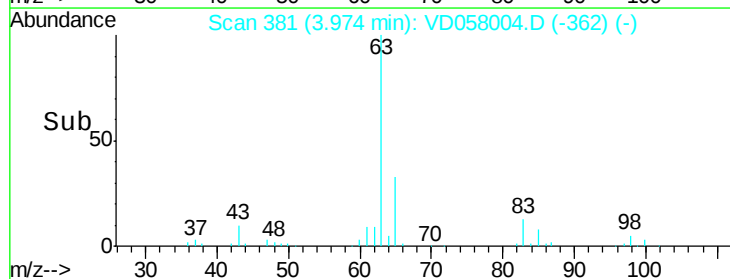
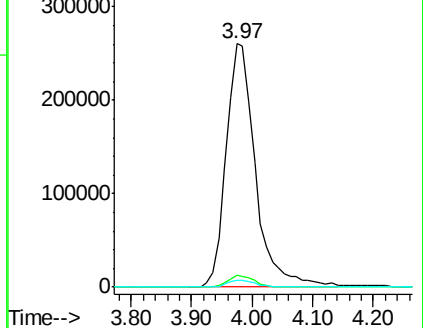
100 2.6 1.4 4.2

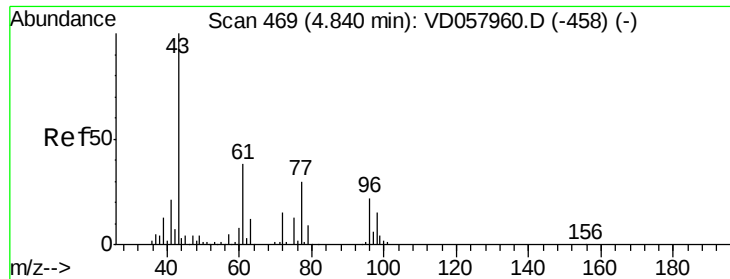


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 243.406 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

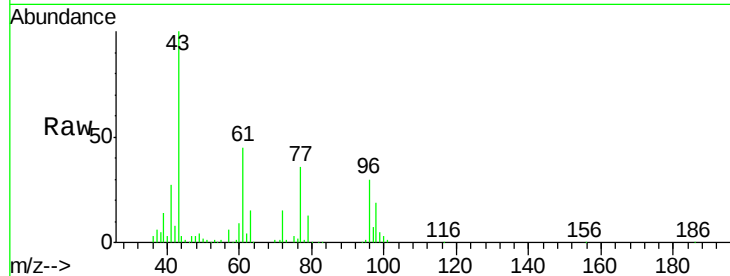
CAS1-SB-02-03-1-27MSD

Tot Ion: 43 Resp: 666196

Ion Ratio Lower Upper

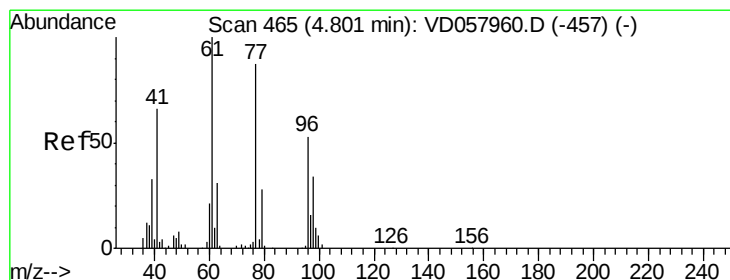
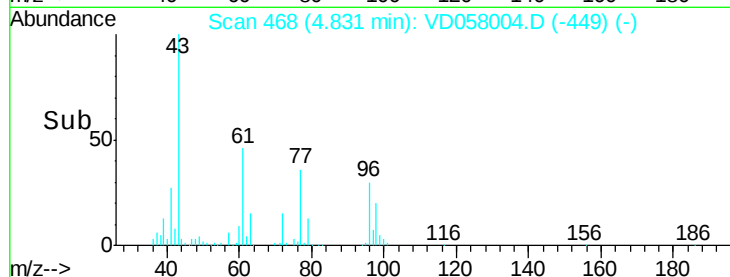
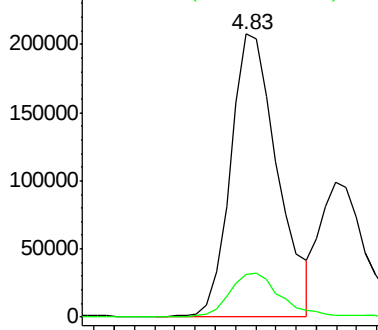
43 100

72 15.3 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: 45.872 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD058004.D

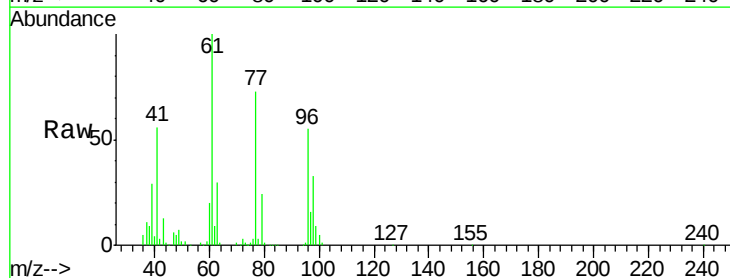
Acq: 8 Jun 2018 8:17

Tgt Ion: 77 Resp: 636459

Ion Ratio Lower Upper

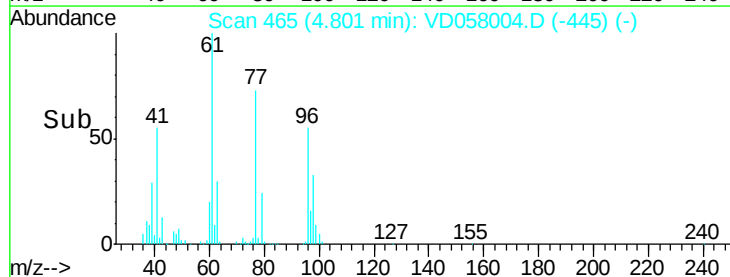
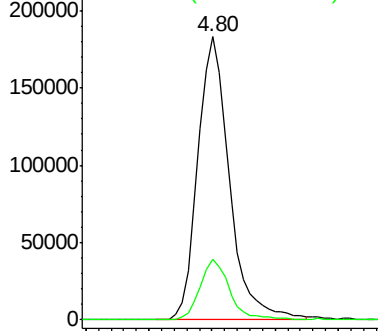
77 100

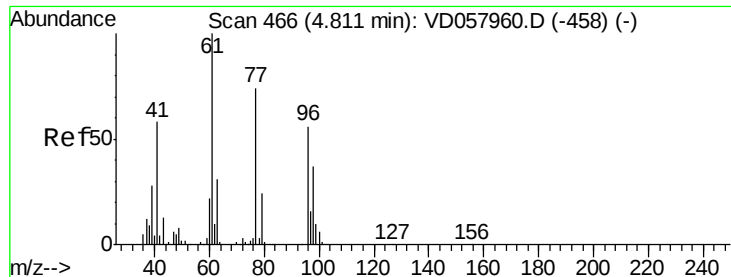
97 21.6 9.2 27.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



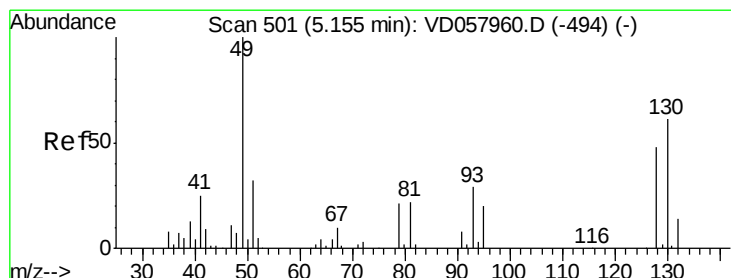
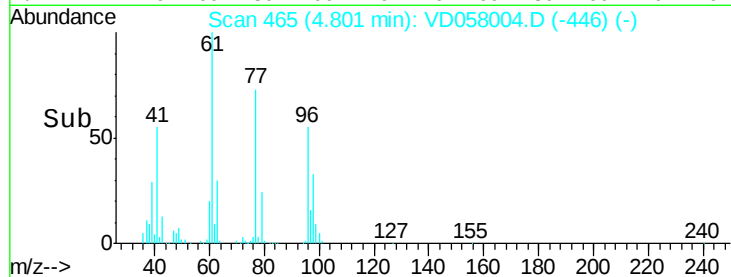
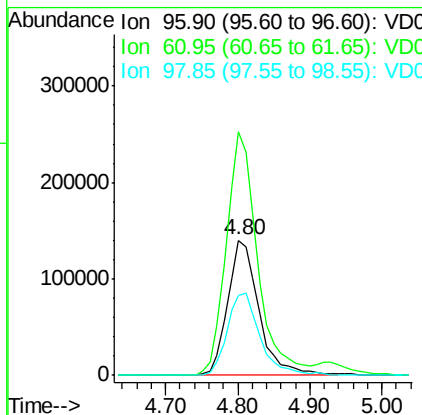
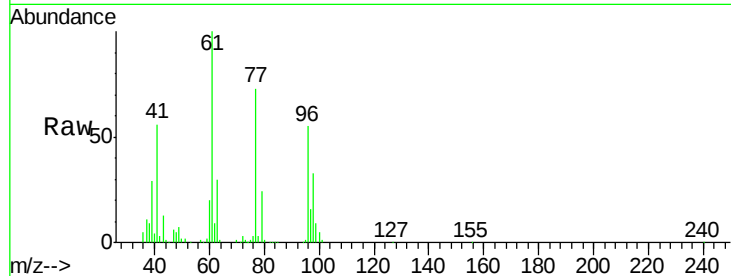


#27

cis-1,2-Dichloroethene
Concen: 47.916 ug/l
RT: 4.80 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

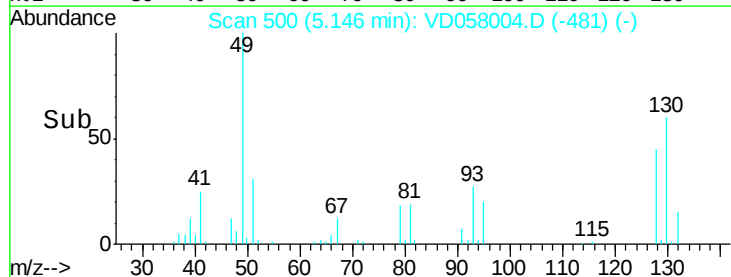
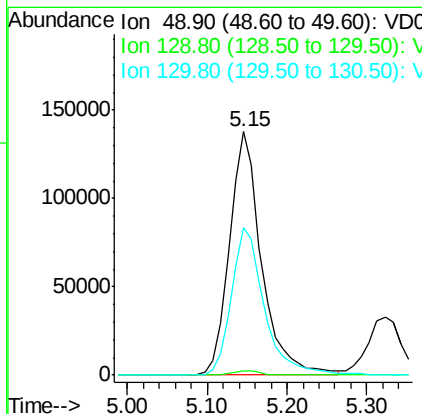
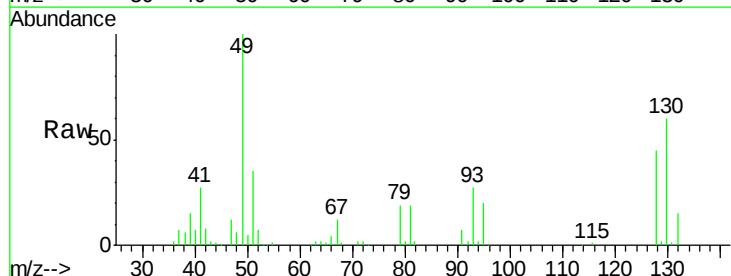
Tot Ion: 96 Resp: 424464
Ion Ratio Lower Upper
96 100
61 180.4 0.0 355.0
98 59.5 0.0 129.6

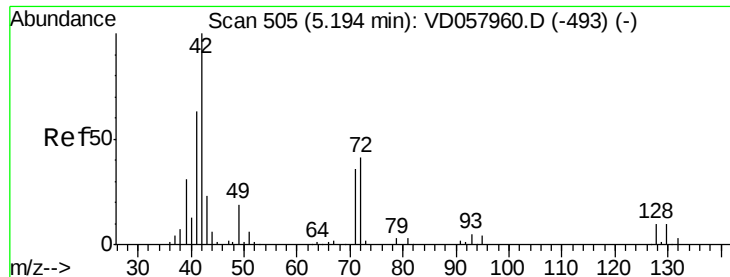


#28

Bromochloromethane
Concen: 53.086 ug/l
RT: 5.15 min Scan# 500
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 49 Resp: 386986
Ion Ratio Lower Upper
49 100
129 2.0 0.0 3.6
130 60.4 48.8 73.2





#29

Tetrahydrofuran

Concen: 258.496 ug/l

RT: 5.19 min Scan# 504

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

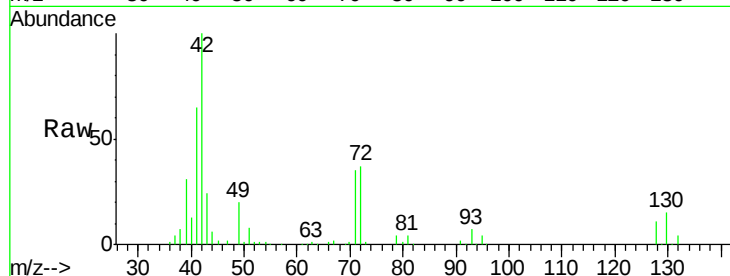
Tot Ion: 42 Resp: 370874

Ion Ratio Lower Upper

42 100

72 33.9 28.5 42.7

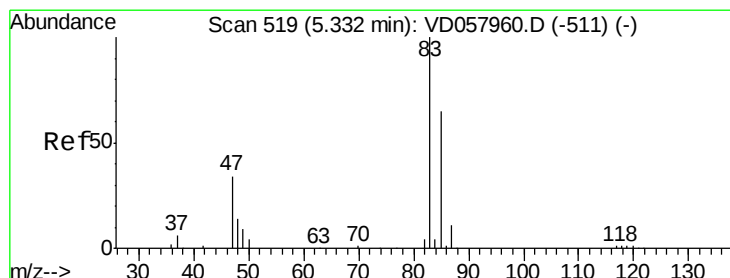
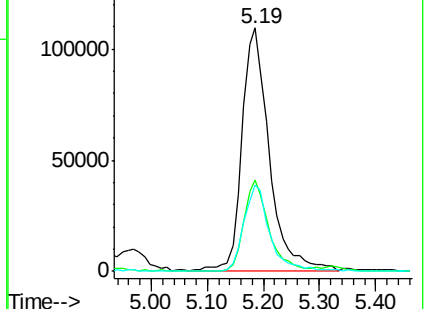
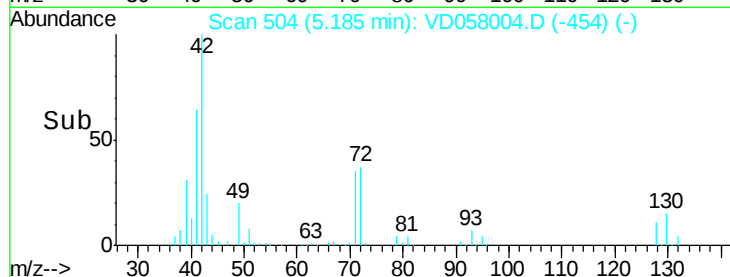
71 33.0 27.9 41.9



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: 53.012 ug/l

RT: 5.32 min Scan# 518

Delta R.T. -0.01 min

Lab File: VD058004.D

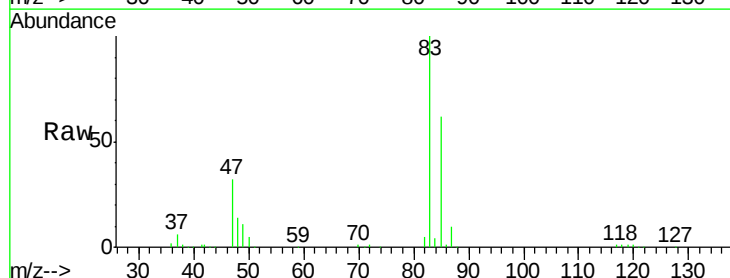
Acq: 8 Jun 2018 8:17

Tgt Ion: 83 Resp: 898594

Ion Ratio Lower Upper

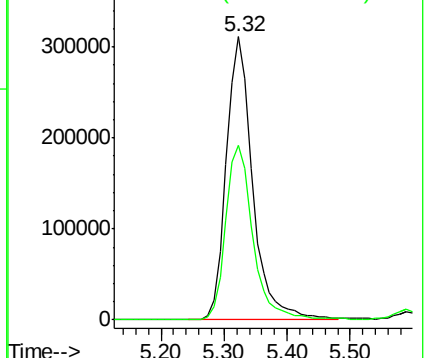
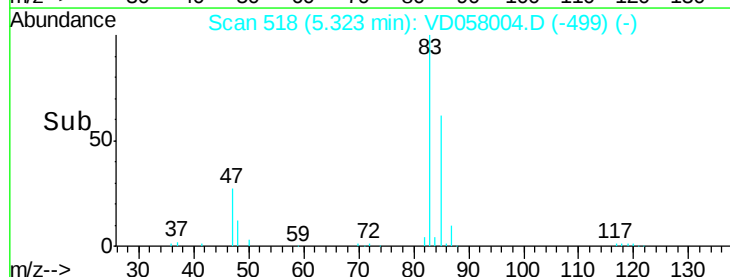
83 100

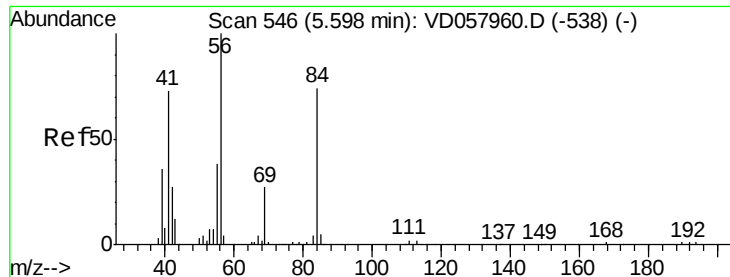
85 61.9 51.6 77.4



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

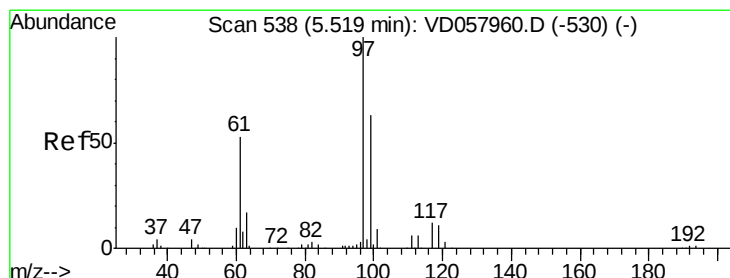
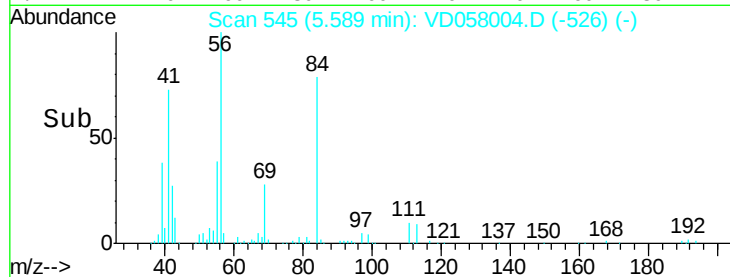
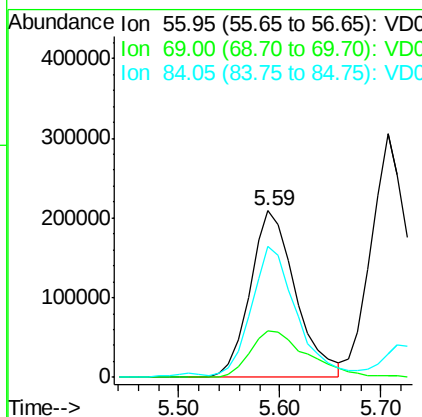
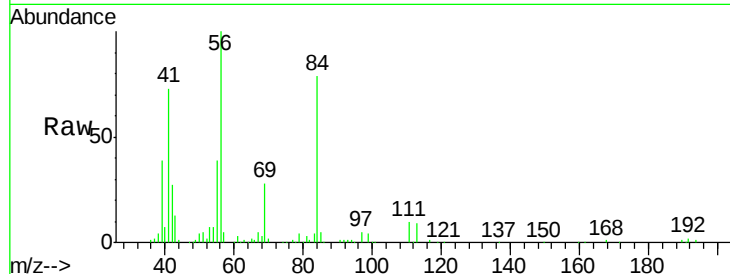




#31
Cyclohexane
Concen: 45.127 ug/l
RT: 5.59 min Scan# 545
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

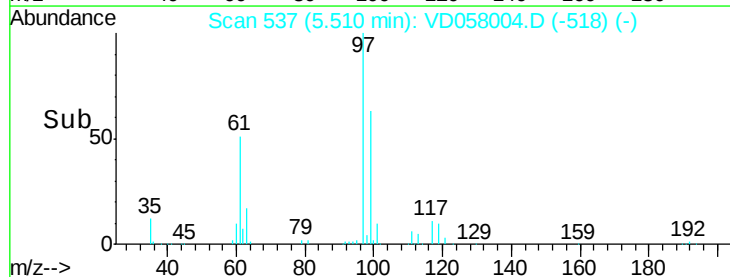
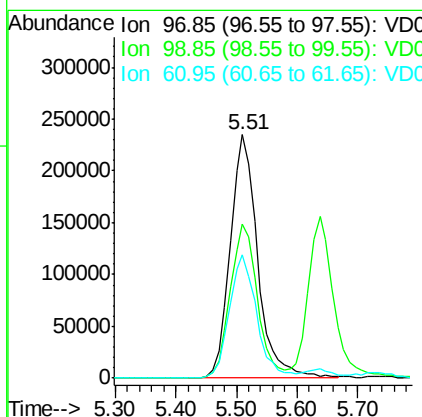
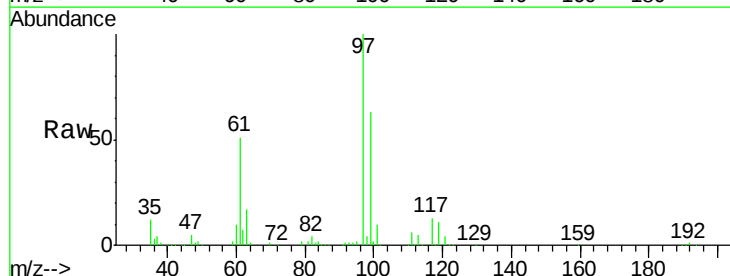
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

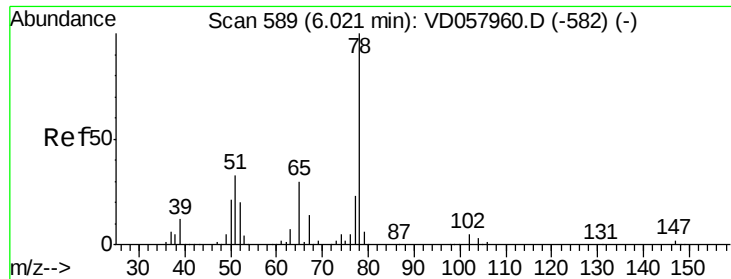
Tot Ion	56	Resp	655929
Ion Ratio	Lower	Upper	
56	100		
69	27.7	21.5	32.3
84	78.8	61.0	91.6



#32
1,1,1-Trichloroethane
Concen: 52.094 ug/l
RT: 5.51 min Scan# 537
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion	97	Resp	739370
Ion Ratio	Lower	Upper	
97	100		
99	63.1	50.1	75.1
61	50.6	42.2	63.4

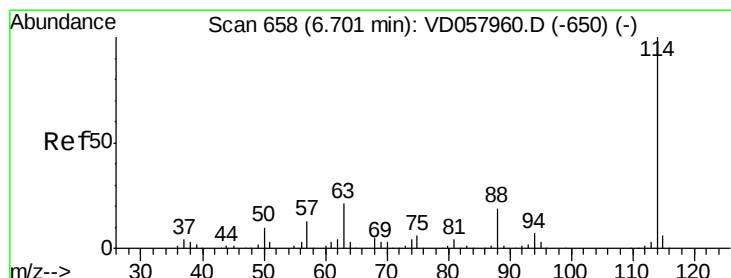
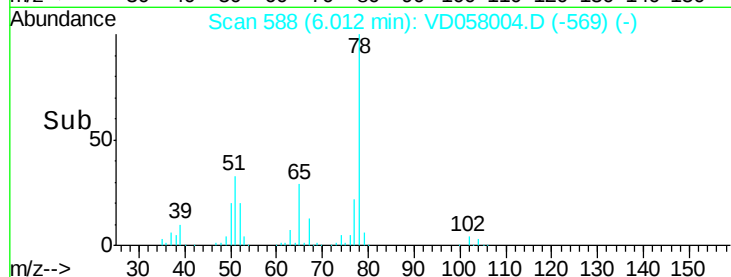
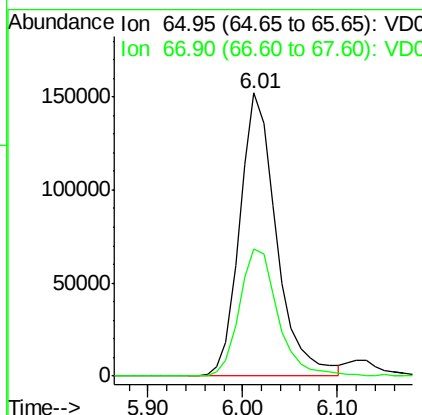
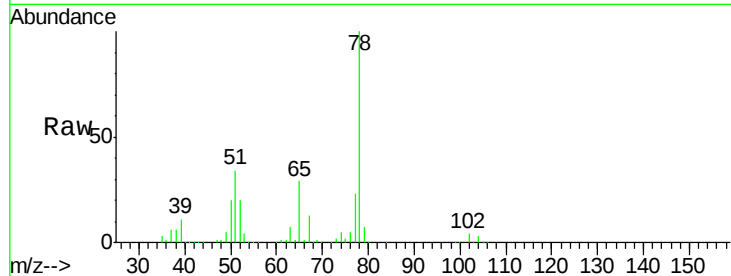




#33
 1,2-Dichloroethane-d4
 Concen: 52.094 ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

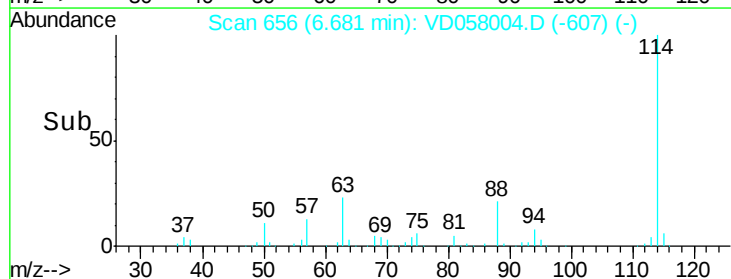
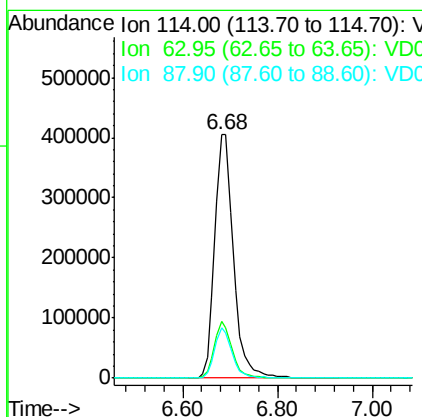
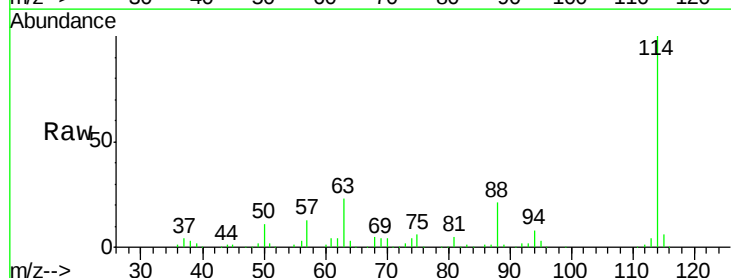
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

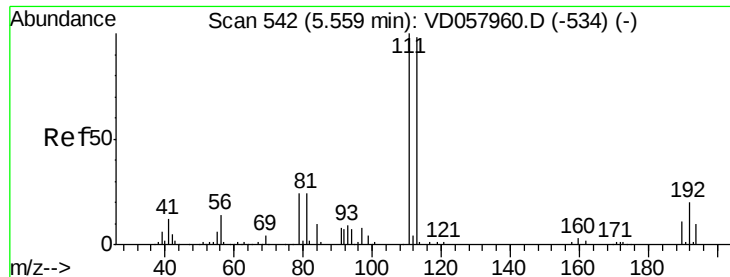
Tot Ion: 65 Resp: 410708
 Ion Ratio Lower Upper
 65 100
 67 44.9 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion: 114 Resp: 1118189
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 42.8
 88 20.7 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

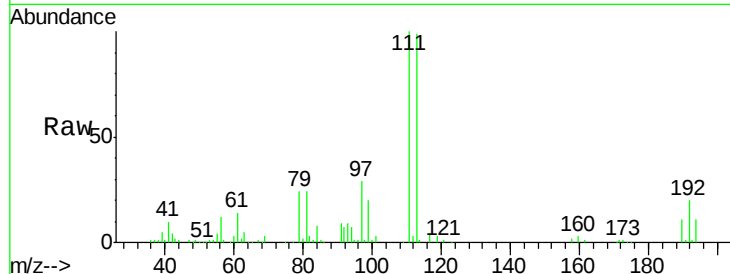
Tot Ion:113 Resp: 425550

Ion Ratio Lower Upper

113 100

111 101.5 81.5 122.3

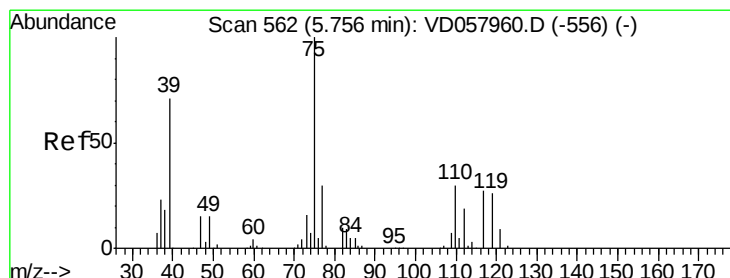
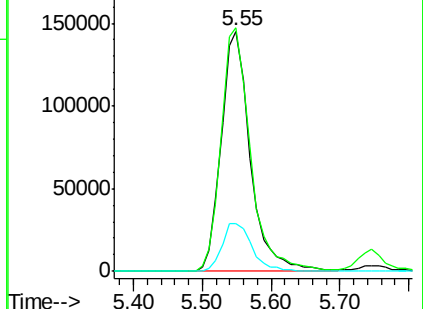
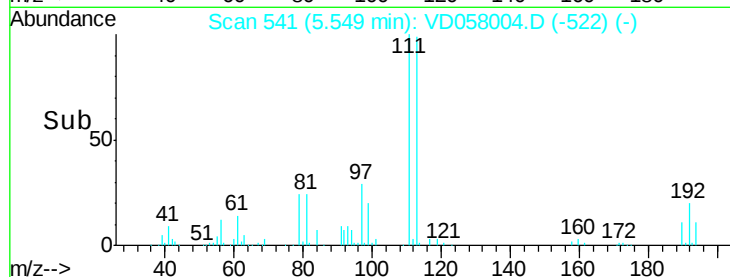
192 19.9 16.4 24.6



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: 46.541 ug/l

RT: 5.75 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

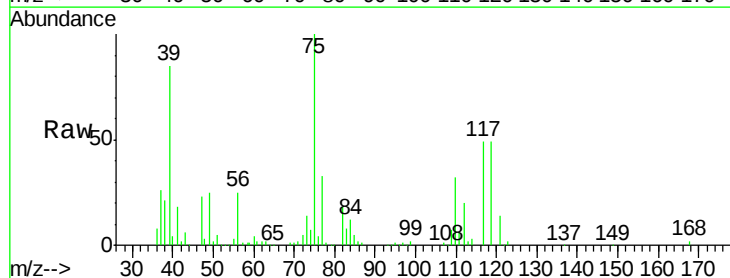
Tgt Ion: 75 Resp: 573362

Ion Ratio Lower Upper

75 100

110 31.6 14.8 44.3

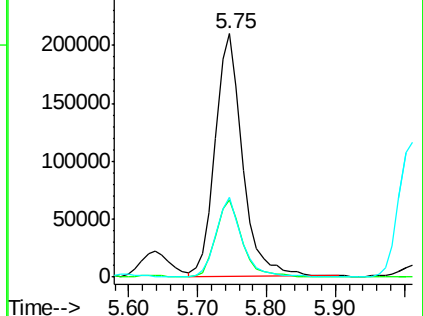
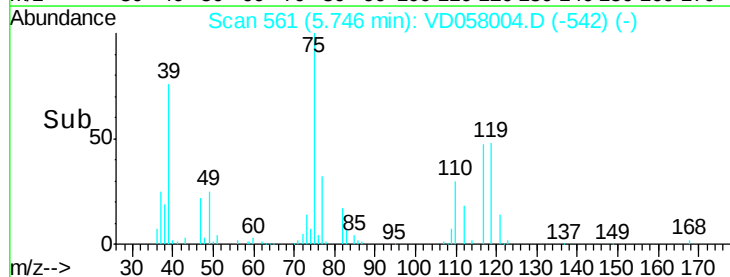
77 32.6 23.9 35.9

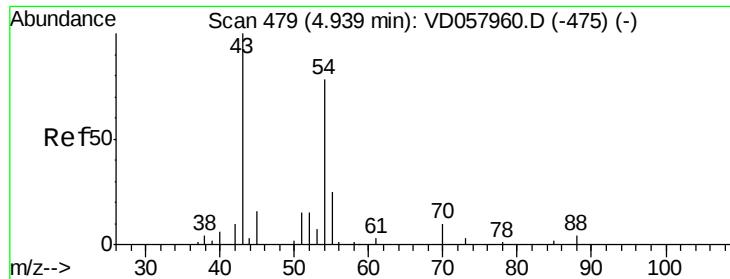


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

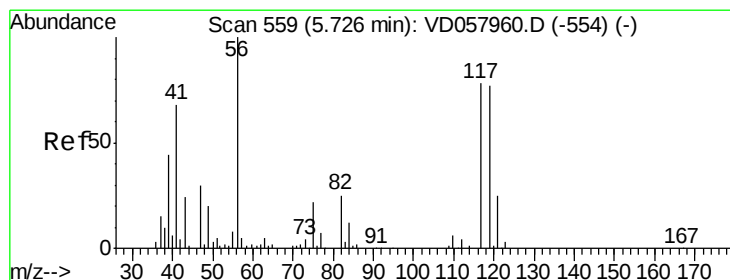
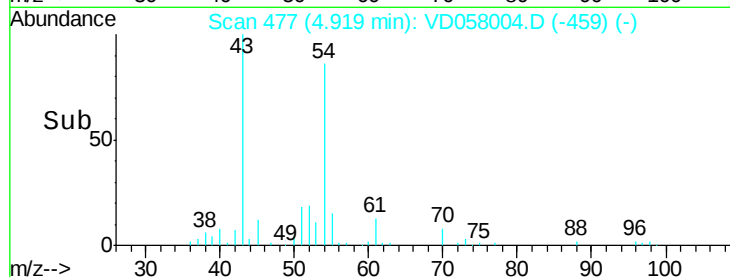
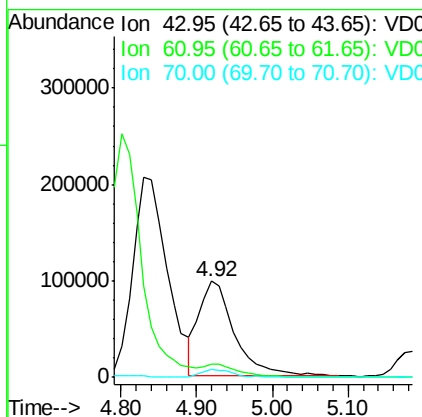
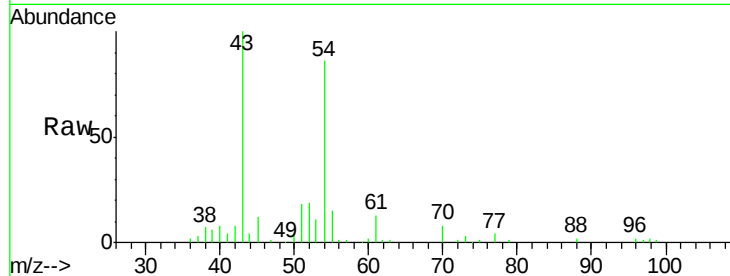




#37
Ethyl Acetate
Concen: 47.495 ug/l
RT: 4.92 min Scan# 477
Delta R.T. -0.02 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

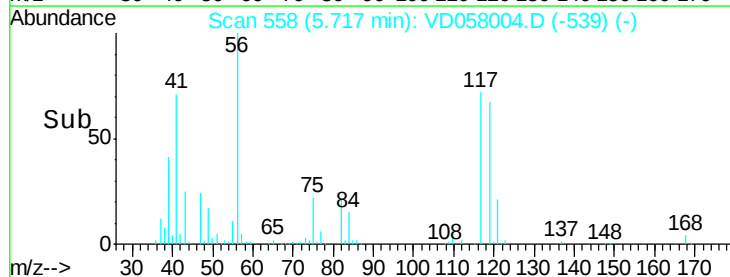
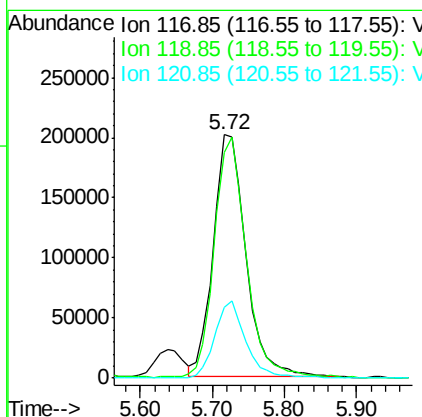
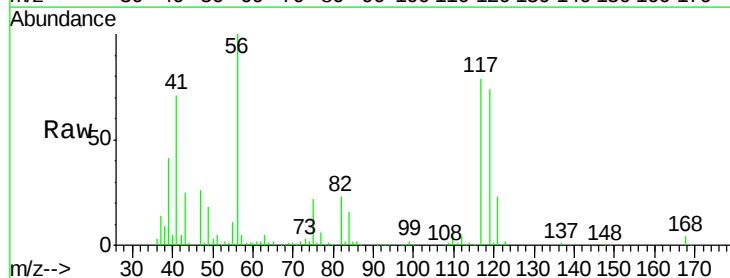
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

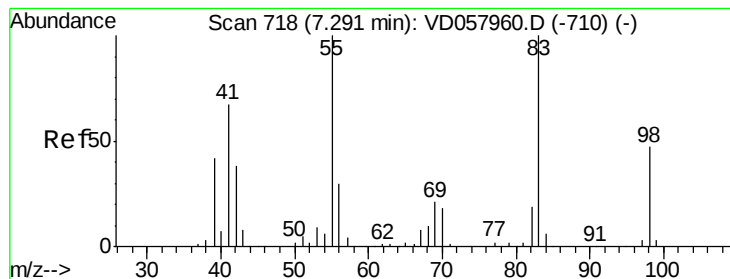
Tot Ion: 43 Resp: 319267
Ion Ratio Lower Upper
43 100
61 13.3 9.9 14.9
70 7.8 5.7 8.5



#38
Carbon Tetrachloride
Concen: 51.564 ug/l
RT: 5.72 min Scan# 558
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 117 Resp: 626054
Ion Ratio Lower Upper
117 100
119 92.7 76.1 114.1
121 29.0 24.9 37.3





#39

Methvlcvclohexane

Concen: 45.012 ug/l

RT: 7.27 min Scan# 716

Delta R.T. -0.02 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

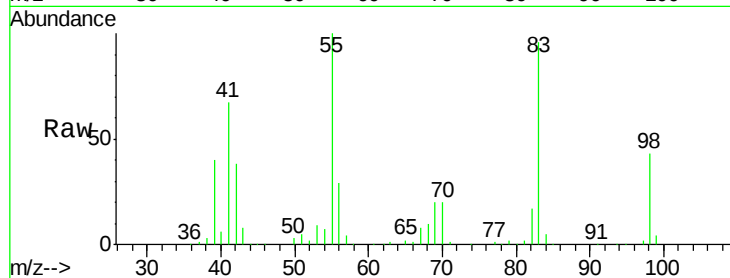
Tot Ion: 83 Resp: 549708

Ion Ratio Lower Upper

83 100

55 103.7 80.3 120.5

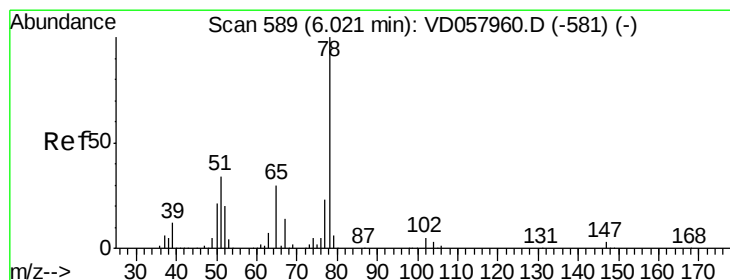
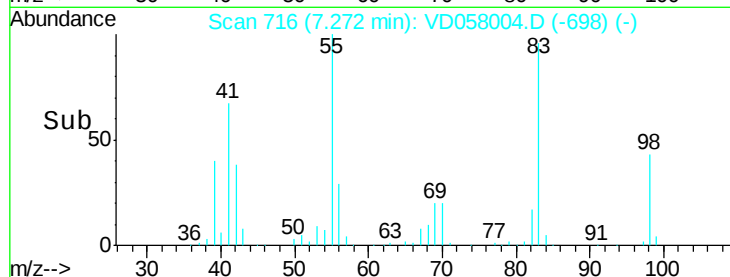
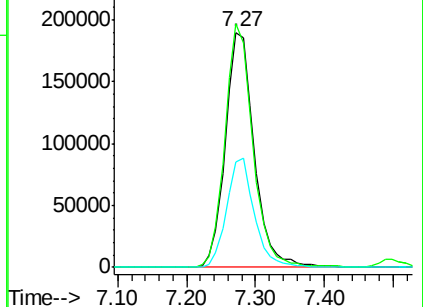
98 44.8 38.0 57.0



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: 51.345 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058004.D

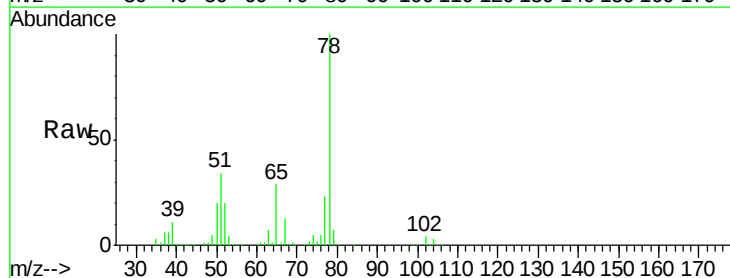
Acq: 8 Jun 2018 8:17

Tgt Ion: 78 Resp: 1477673

Ion Ratio Lower Upper

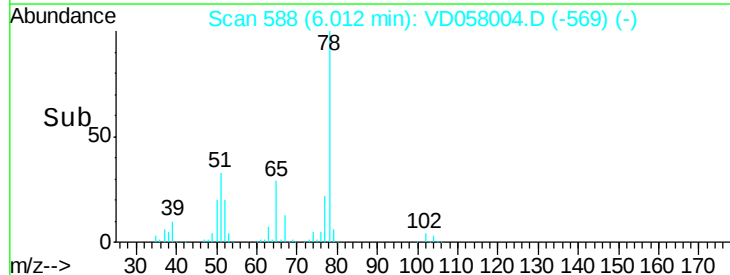
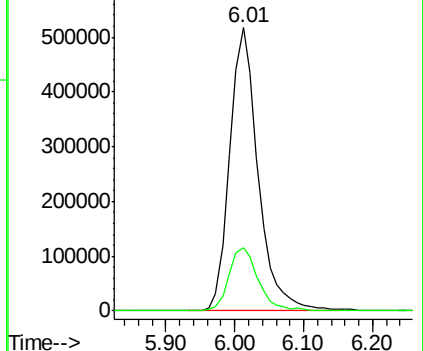
78 100

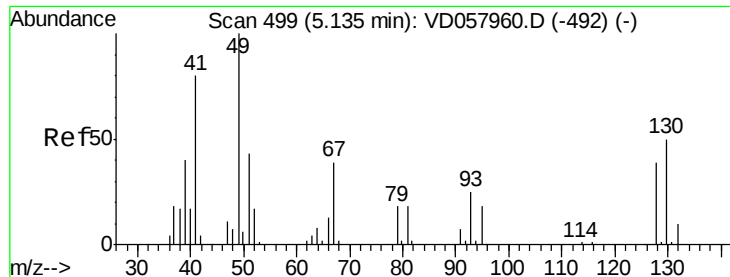
77 22.5 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 51.056 ug/l

RT: 5.13 min Scan# 498

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

Tot Ion: 41 Resp: 156927

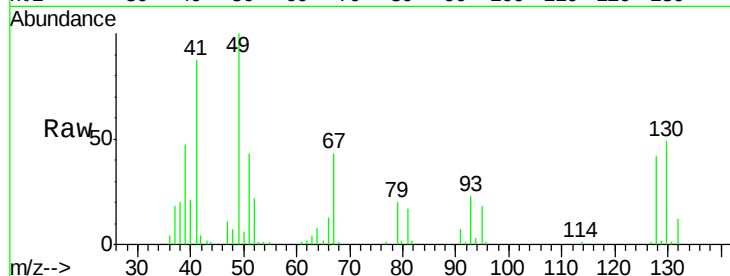
Ion Ratio Lower Upper

41 100

39 53.9 40.7 61.1

67 49.6 38.8 58.2

52 24.7 17.3 25.9

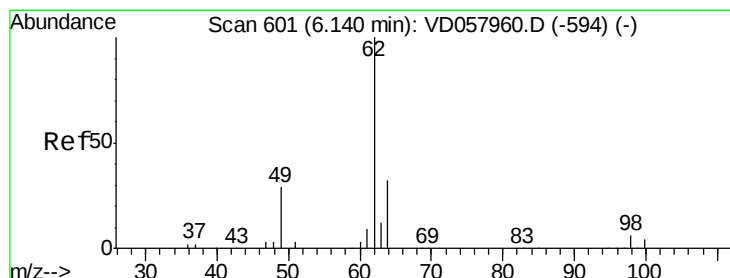
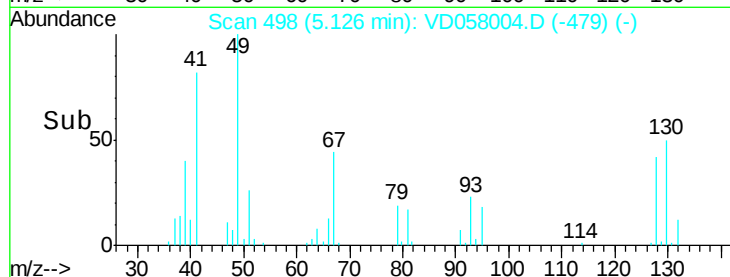
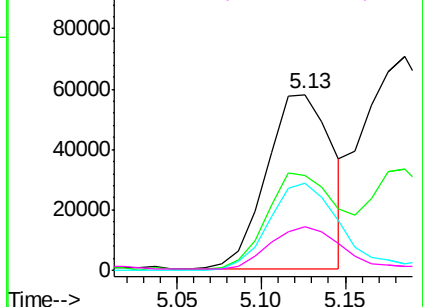


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 50.125 ug/l

RT: 6.12 min Scan# 599

Delta R.T. -0.02 min

Lab File: VD058004.D

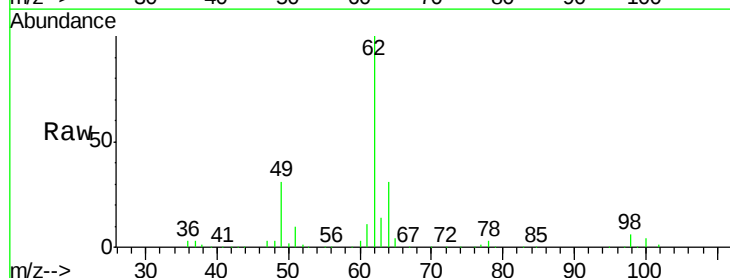
Acq: 8 Jun 2018 8:17

Tgt Ion: 62 Resp: 583252

Ion Ratio Lower Upper

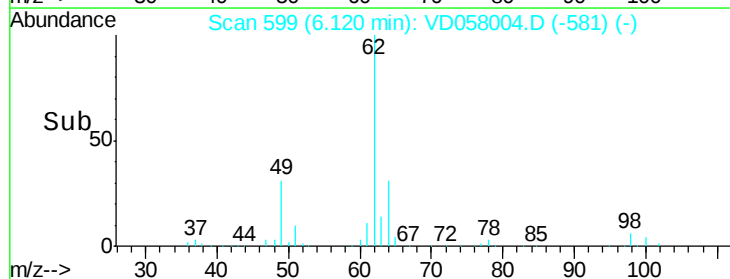
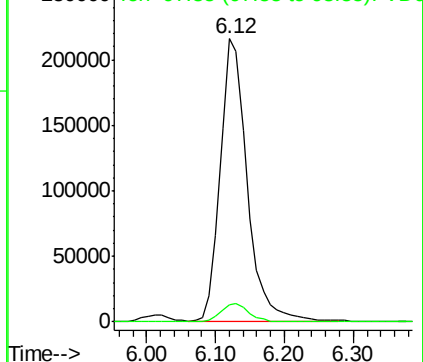
62 100

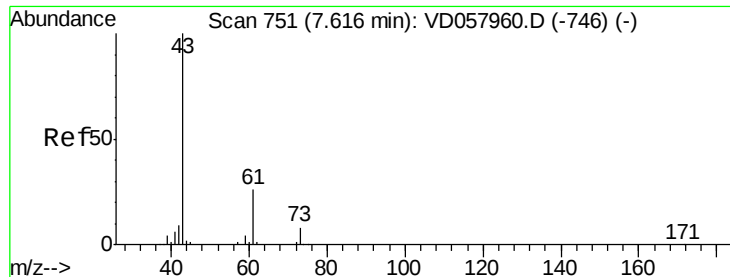
98 6.2 0.0 12.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 47.696 ug/l

RT: 7.61 min Scan# 750

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

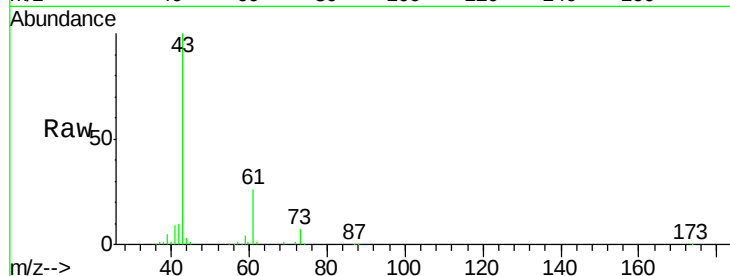
Tot Ion: 43 Resp: 419954

Ion Ratio Lower Upper

43 100

61 26.5 20.6 30.8

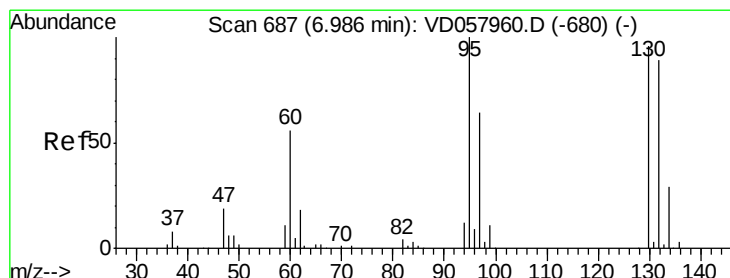
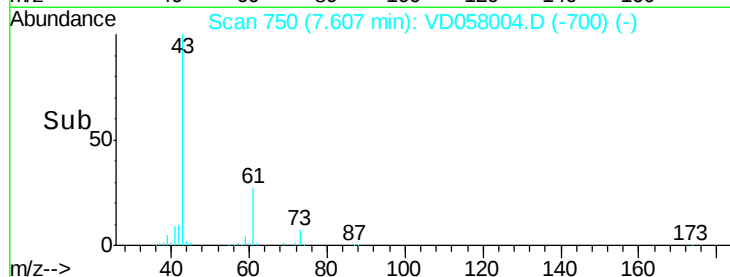
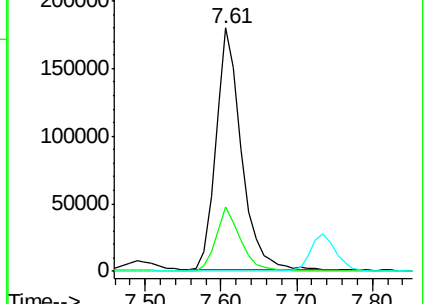
87 0.2 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 47.203 ug/l

RT: 6.98 min Scan# 686

Delta R.T. -0.01 min

Lab File: VD058004.D

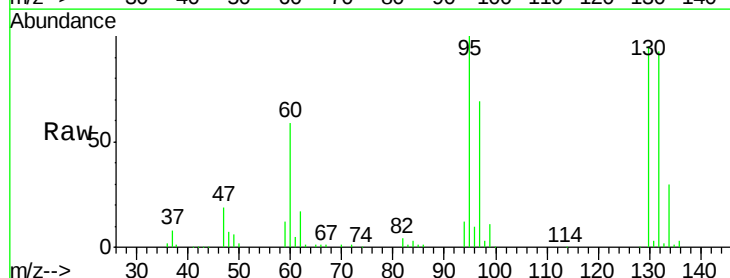
Acq: 8 Jun 2018 8:17

Tgt Ion:130 Resp: 396797

Ion Ratio Lower Upper

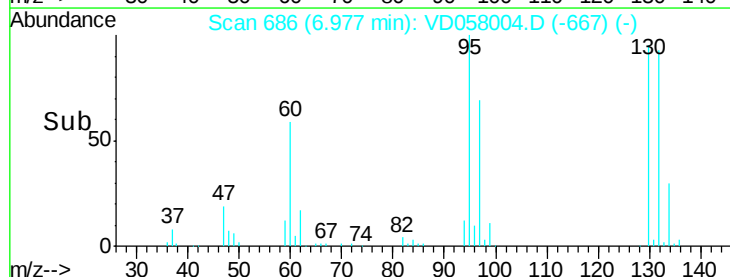
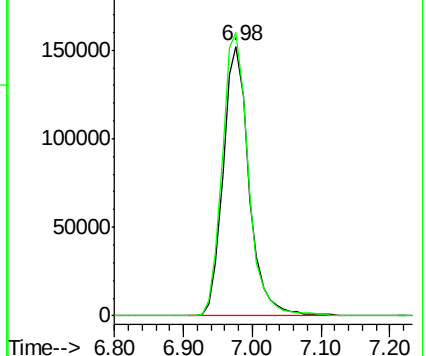
130 100

95 105.1 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

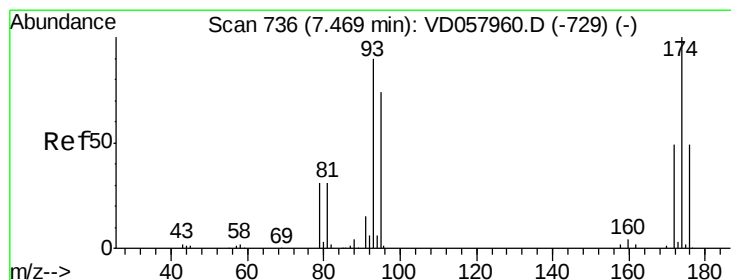
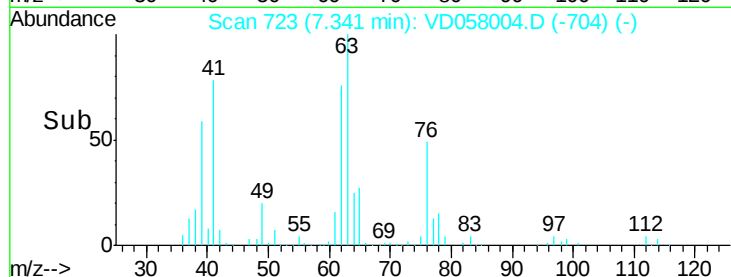
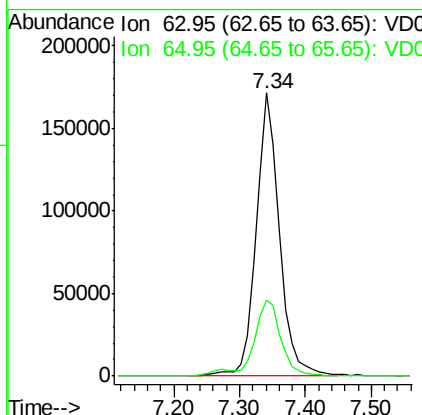
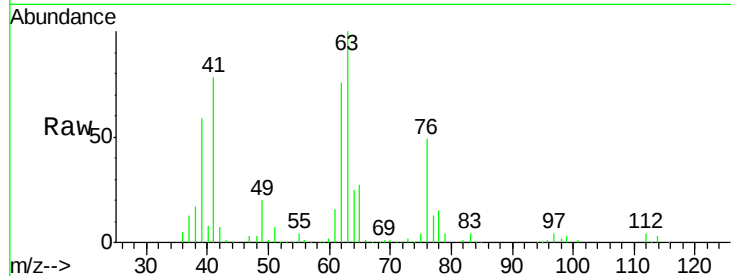




#45
 1,2-Dichloropropane
 Concen: 52.946 ug/l
 RT: 7.34 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

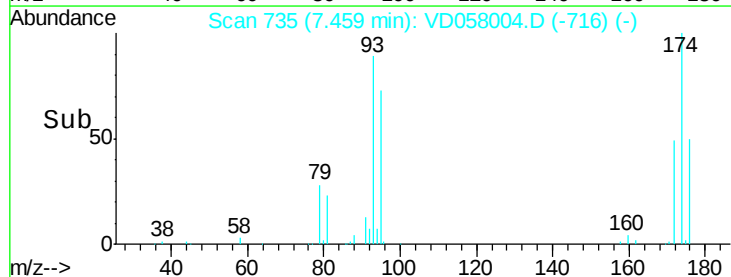
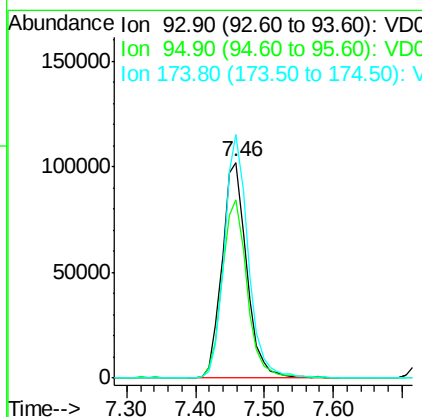
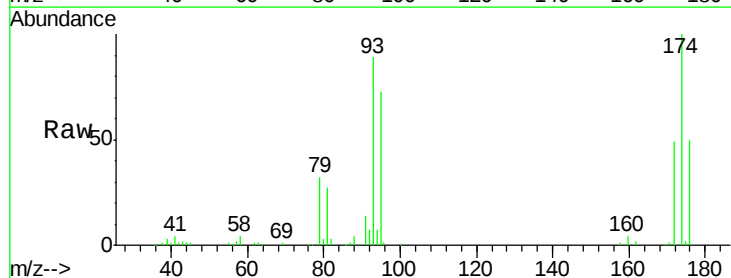
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

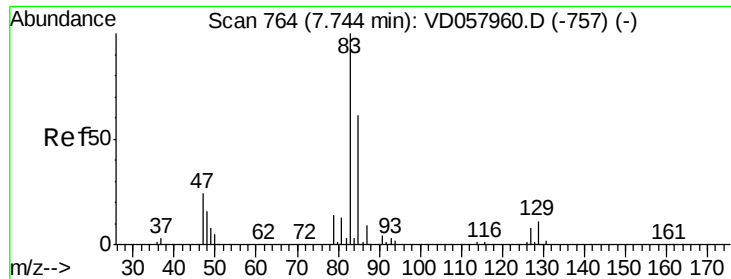
Tot Ion: 63 Resp: 423495
 Ion Ratio Lower Upper
 63 100
 65 26.8 24.9 37.3



#46
 Dibromomethane
 Concen: 49.338 ug/l
 RT: 7.46 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion: 93 Resp: 253511
 Ion Ratio Lower Upper
 93 100
 95 82.3 65.7 98.5
 174 112.8 89.0 133.4





#47

Bromodichloromethane

Concen: 53.519 ug/l

RT: 7.73 min Scan# 763

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

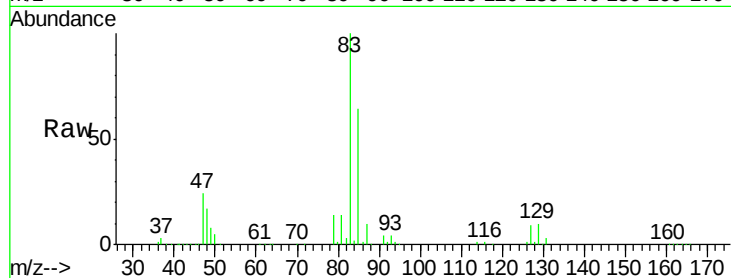
Tot Ion: 83 Resp: 643878

Ion Ratio Lower Upper

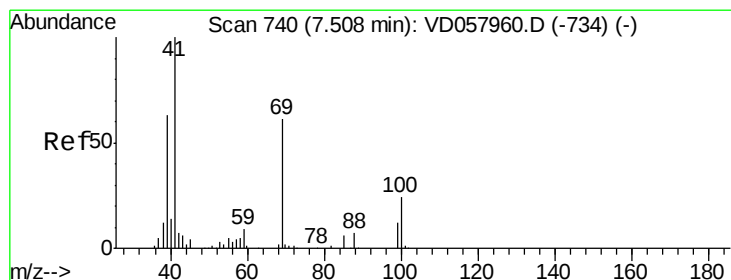
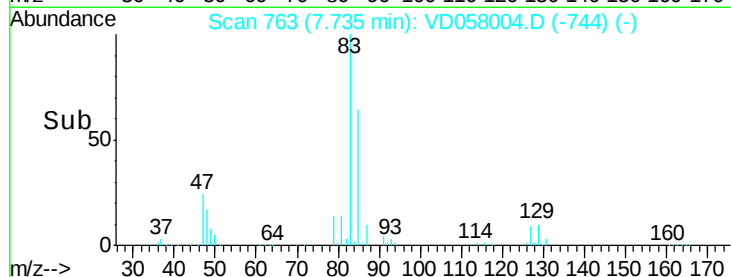
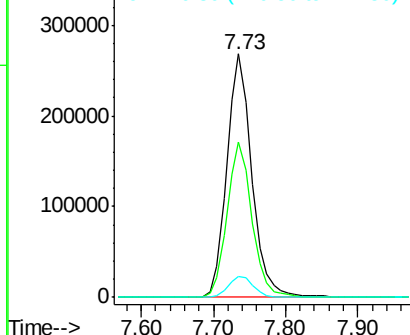
83 100

85 63.8 49.1 73.7

127 8.7 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): VDC



#48

Methyl methacrylate

Concen: 53.151 ug/l

RT: 7.50 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

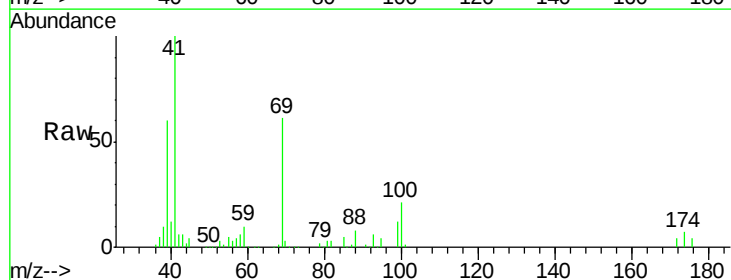
Tgt Ion: 41 Resp: 288040

Ion Ratio Lower Upper

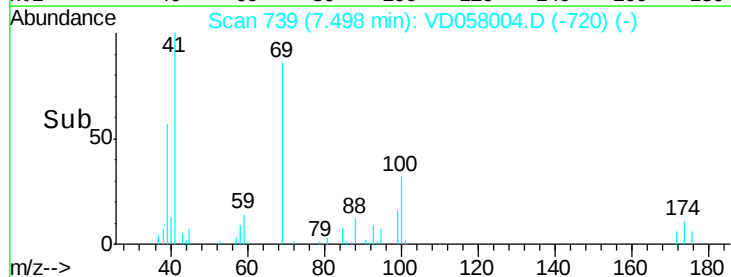
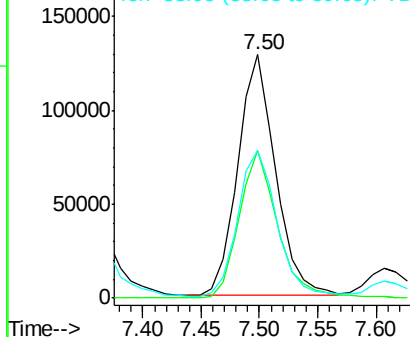
41 100

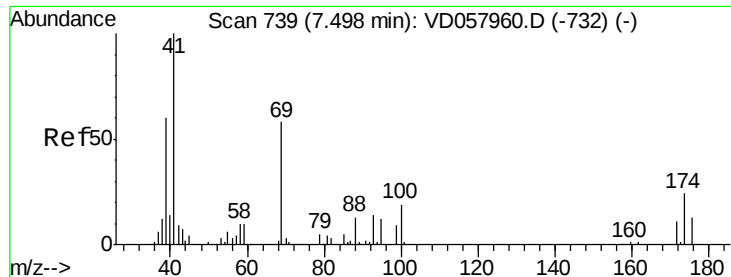
69 60.7 48.0 72.0

39 60.5 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: 1034.836 ug/l

RT: 7.48 min Scan# 737

Delta R.T. -0.02 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

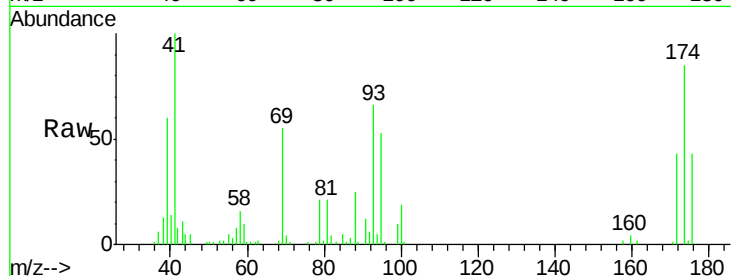
Tot Ion: 88 Resp: 46459

Ion Ratio Lower Upper

88 100

43 44.5 46.6 69.8#

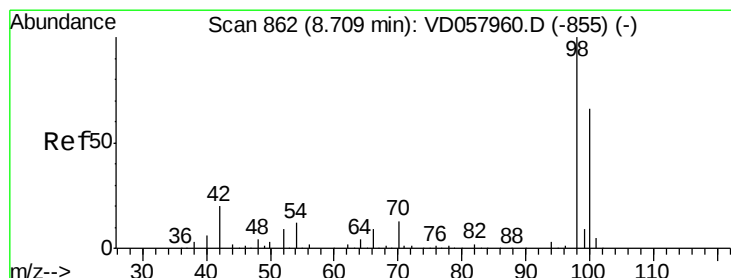
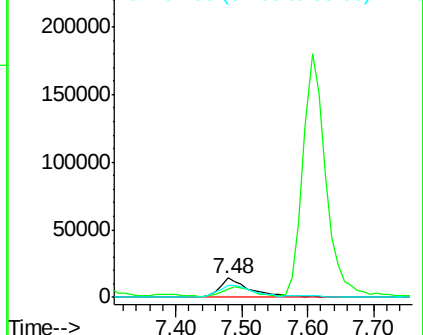
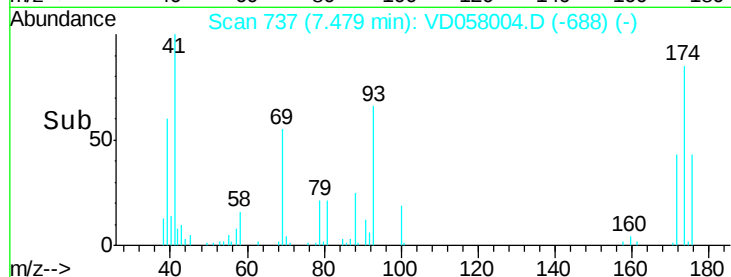
58 65.4 63.6 95.4



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: 1034.836 ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058004.D

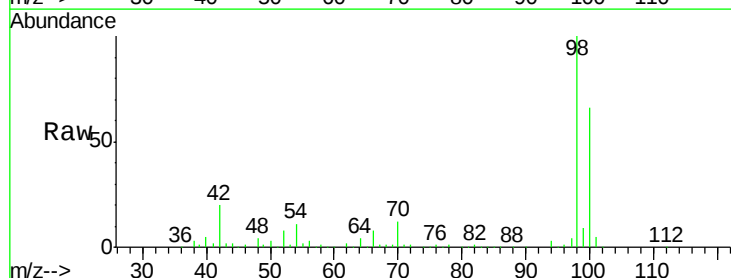
Acq: 8 Jun 2018 8:17

Tgt Ion: 98 Resp: 999329

Ion Ratio Lower Upper

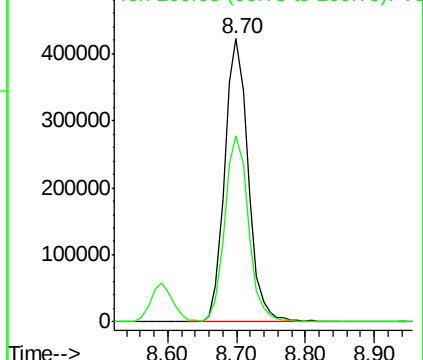
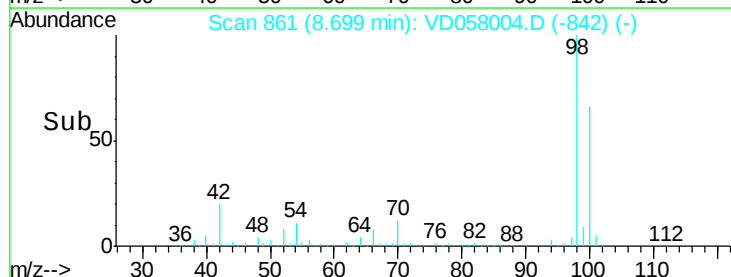
98 100

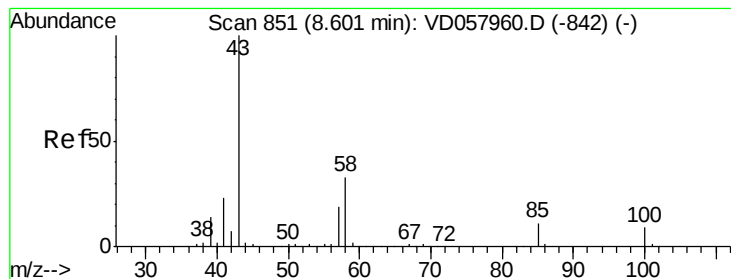
100 65.9 53.4 80.0



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: 261.799 ug/l

RT: 8.59 min Scan# 850

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

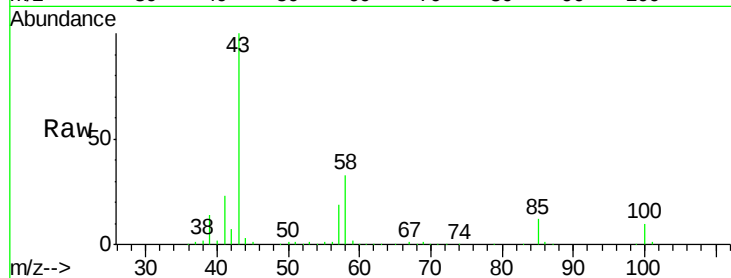
CAS1-SB-02-03-1-27MSD

Tot Ion: 43 Resp: 1478521

Ion Ratio Lower Upper

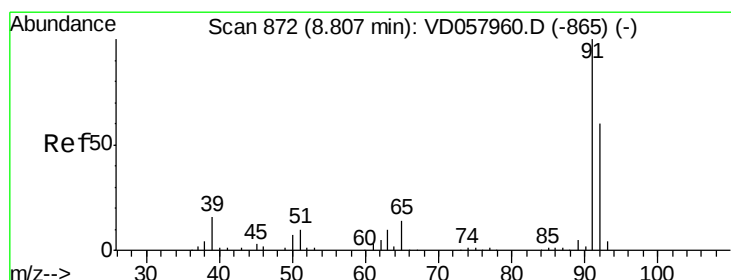
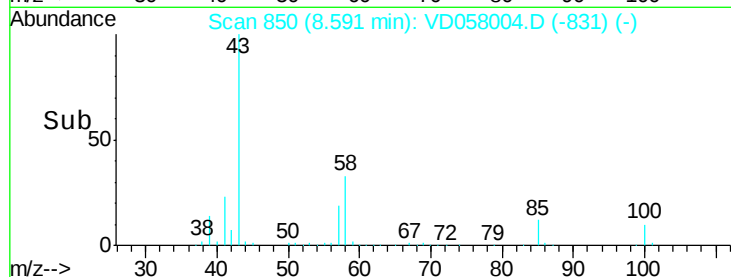
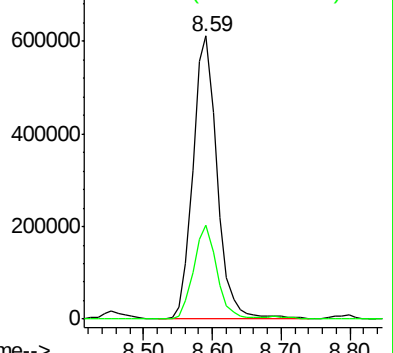
43 100

58 33.2 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: 49.330 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.01 min

Lab File: VD058004.D

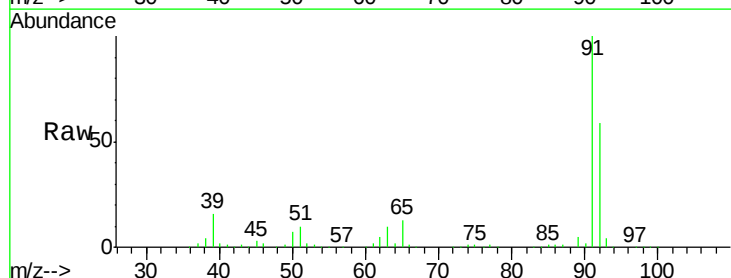
Acq: 8 Jun 2018 8:17

Tgt Ion: 92 Resp: 814772

Ion Ratio Lower Upper

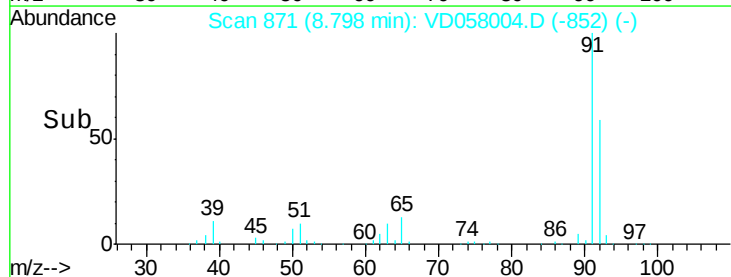
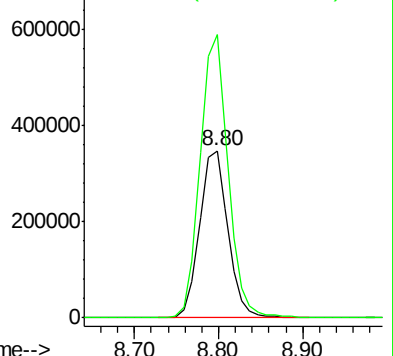
92 100

91 169.3 133.0 199.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

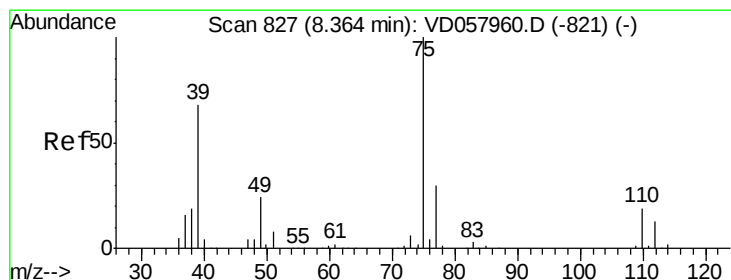
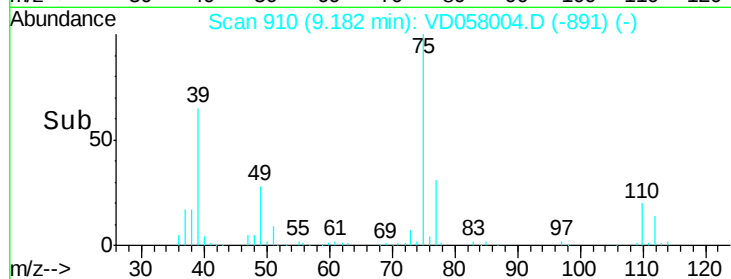
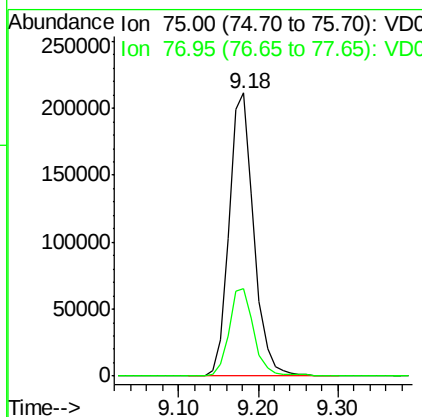
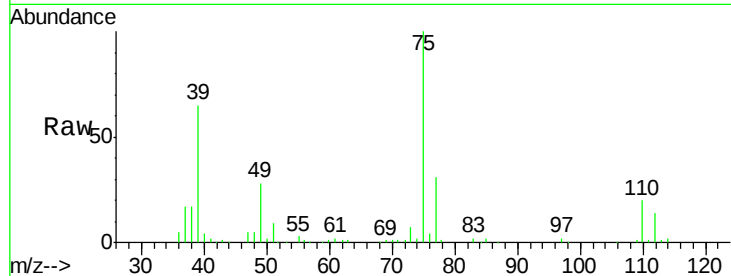




#53
 t-1,3-Dichloropropene
 Concen: 44.168 ug/l
 RT: 9.18 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

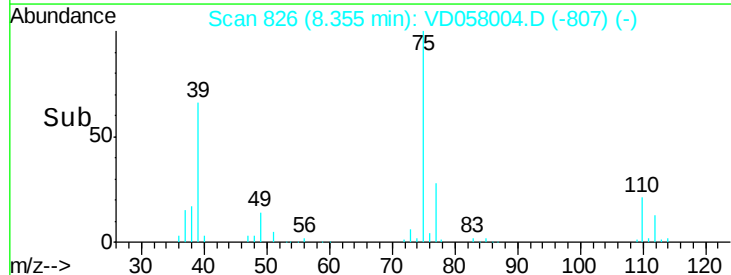
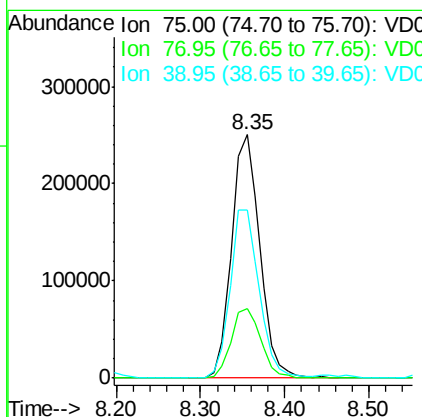
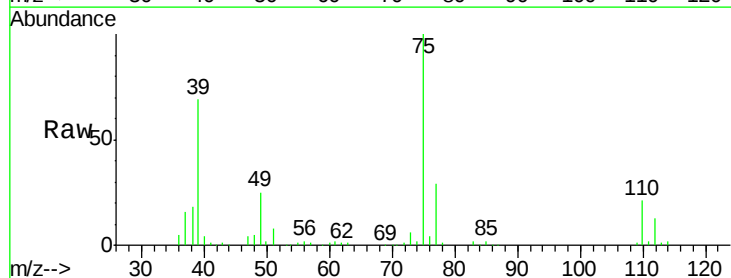
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

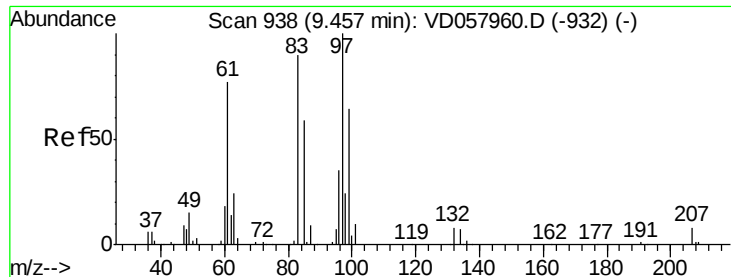
Tot Ion: 75 Resp: 457812
 Ion Ratio Lower Upper
 75 100
 77 31.1 24.3 36.5



#54
 cis-1,3-Dichloropropene
 Concen: 47.741 ug/l
 RT: 8.35 min Scan# 826
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion: 75 Resp: 582993
 Ion Ratio Lower Upper
 75 100
 77 28.8 24.1 36.1
 39 69.0 54.0 81.0





#55

1,1,2-Trichloroethane

Concen: 53.817 ug/l

RT: 9.45 min Scan# 937

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

Tot Ion: 97 Resp: 287676

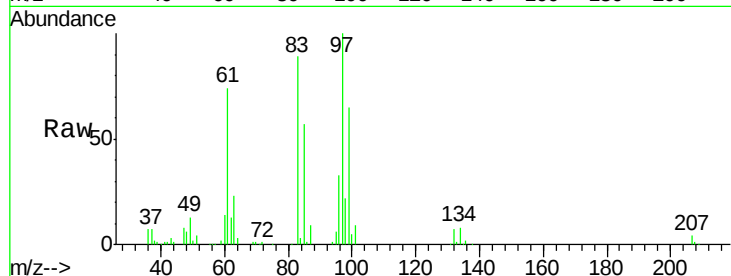
Ion Ratio Lower Upper

97 100

83 88.6 71.8 107.8

85 57.0 47.2 70.8

99 65.3 51.4 77.0

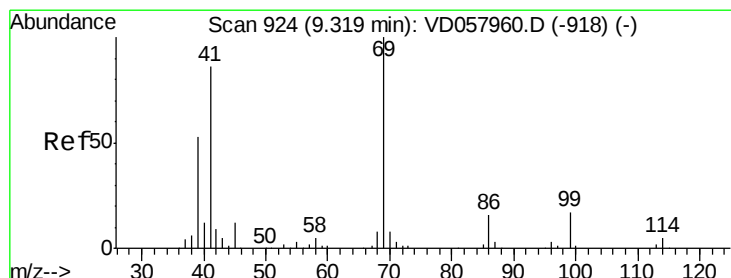
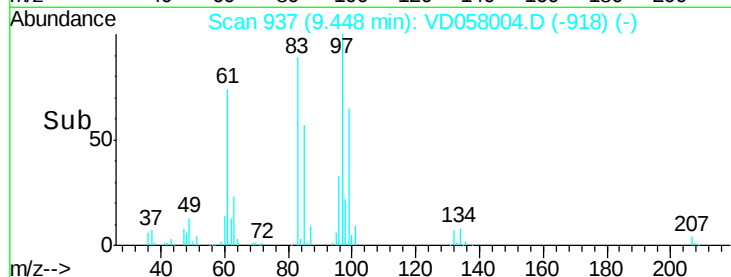
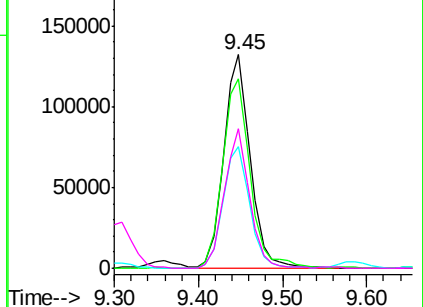


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 54.526 ug/l

RT: 9.30 min Scan# 922

Delta R.T. -0.02 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

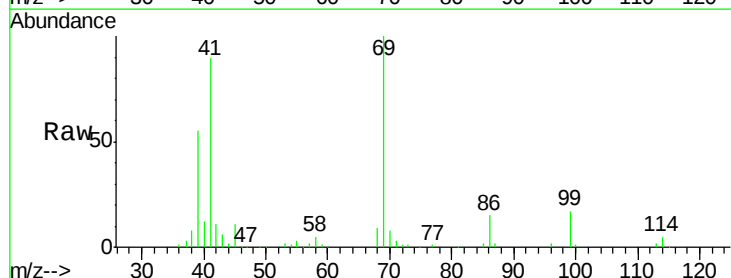
Tgt Ion: 69 Resp: 357531

Ion Ratio Lower Upper

69 100

41 90.0 68.4 102.6

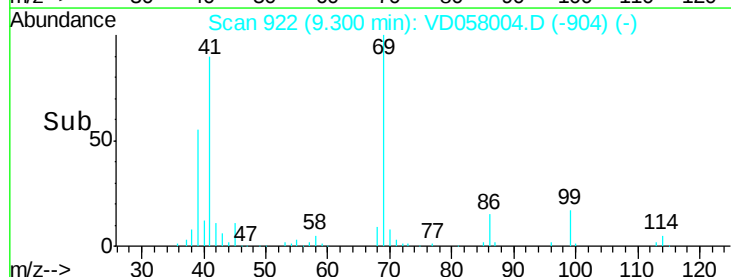
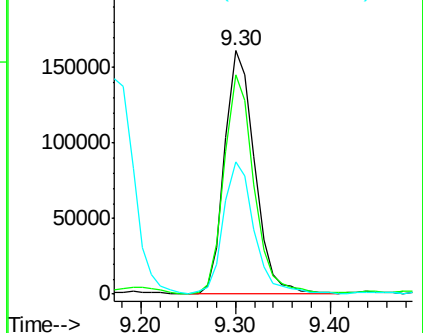
39 54.5 43.0 64.4

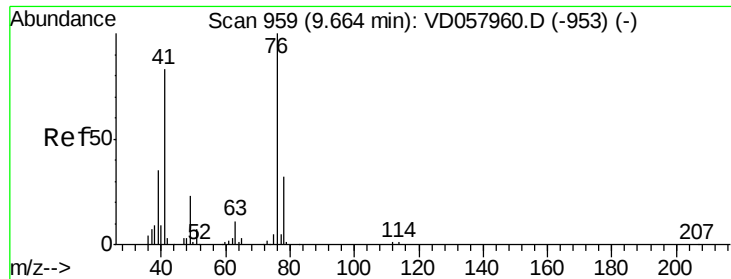


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 49.695 ug/l

RT: 9.65 min Scan# 958

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

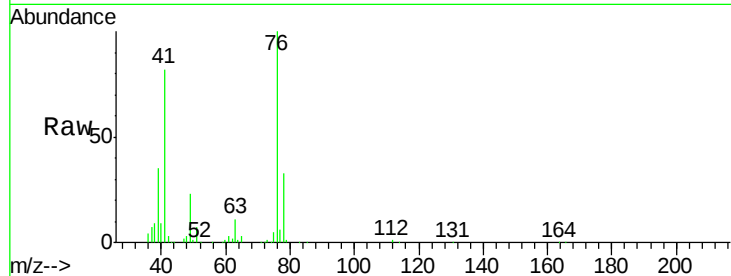
CAS1-SB-02-03-1-27MSD

Tot Ion: 76 Resp: 465909

Ion Ratio Lower Upper

76 100

78 33.0 25.4 38.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

9.65

200000

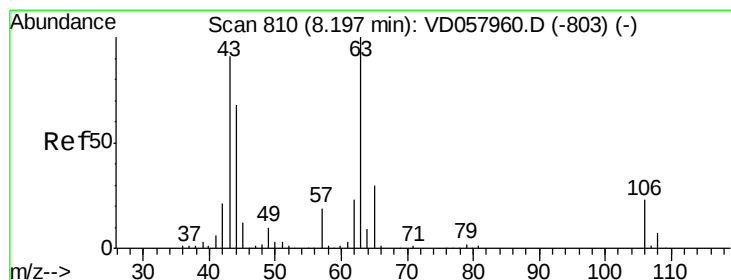
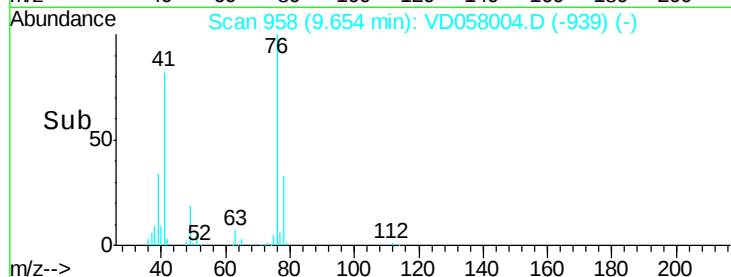
150000

100000

50000

0

Time--> 9.50 9.60 9.70 9.80



#58

2-Chloroethyl Vinyl ether

Concen: 256.962 ug/l

RT: 8.18 min Scan# 808

Delta R.T. -0.02 min

Lab File: VD058004.D

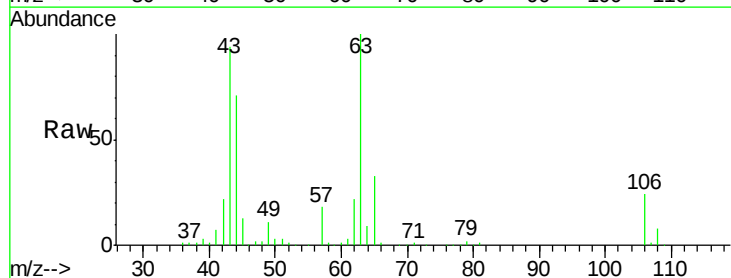
Acq: 8 Jun 2018 8:17

Tgt Ion: 63 Resp: 851264

Ion Ratio Lower Upper

63 100

106 23.5 18.7 28.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.18

400000

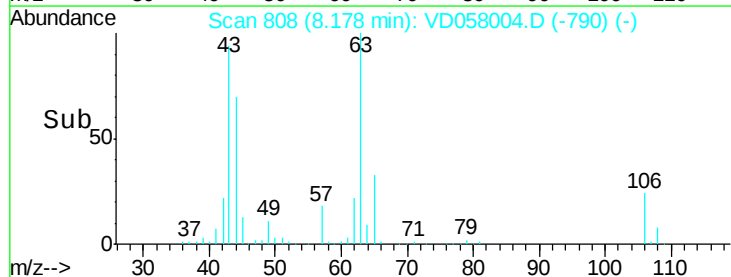
300000

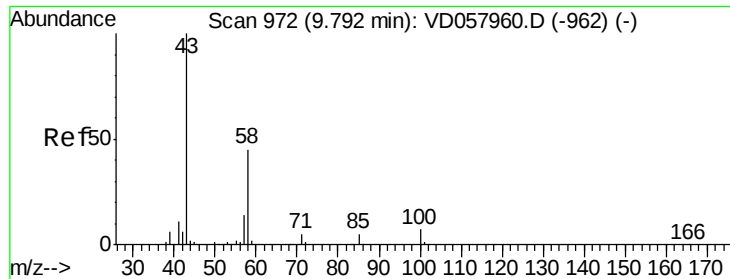
200000

100000

0

Time--> 8.10 8.20 8.30

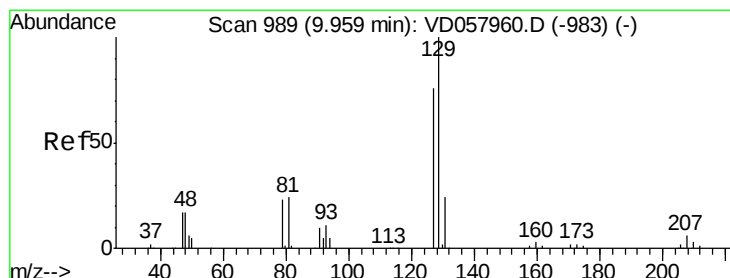
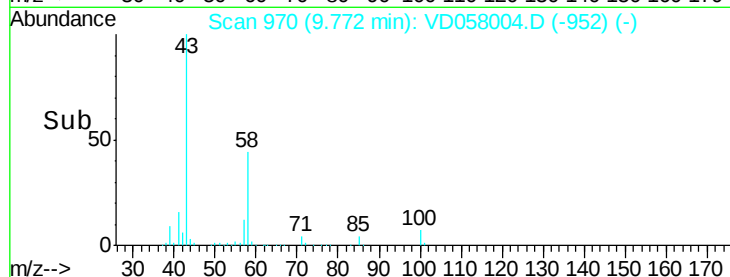
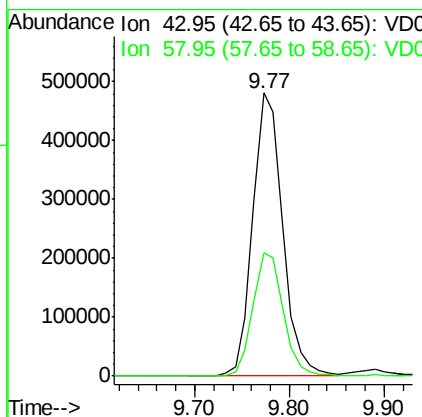
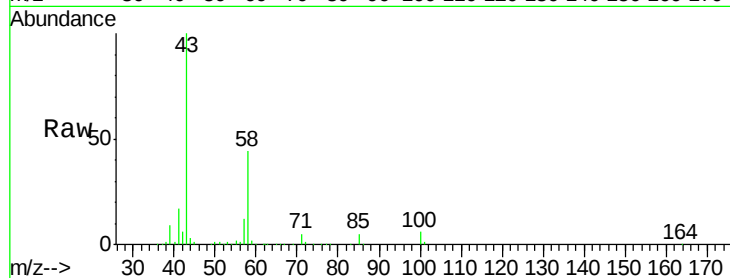




#59
2-Hexanone
Concen: 254.248 ug/l
RT: 9.77 min Scan# 970
Delta R.T. -0.02 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

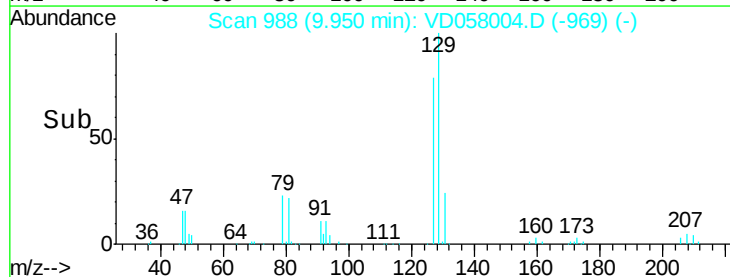
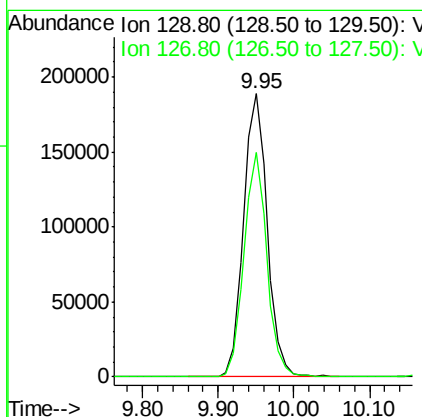
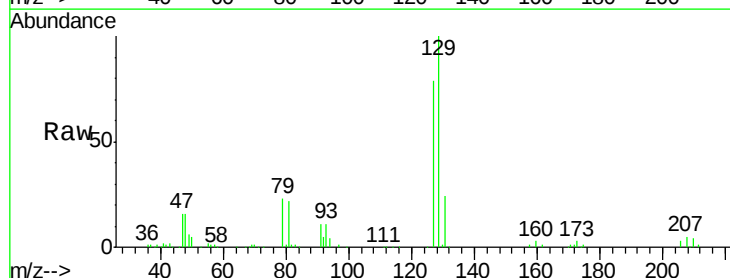
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

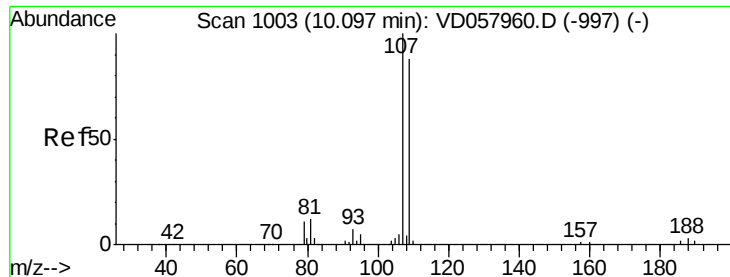
Tot Ion: 43 Resp: 1052267
Ion Ratio Lower Upper
43 100
58 43.7 22.5 67.5



#60
Dibromochloromethane
Concen: 54.187 ug/l
RT: 9.95 min Scan# 988
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 129 Resp: 408457
Ion Ratio Lower Upper
129 100
127 79.2 38.3 114.8





#61

1,2-Dibromoethane

Concen: 49.841 ug/l

RT: 10.09 min Scan# 1002

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

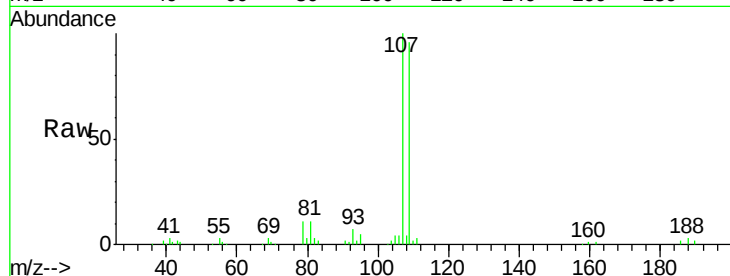
CAS1-SB-02-03-1-27MSD

Tot Ion: 107 Resp: 306386

Ion Ratio Lower Upper

107 100

109 95.9 70.6 106.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.09

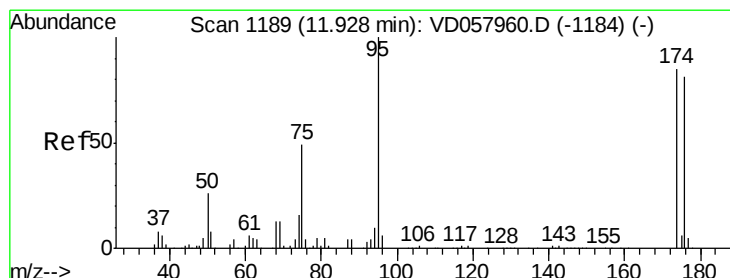
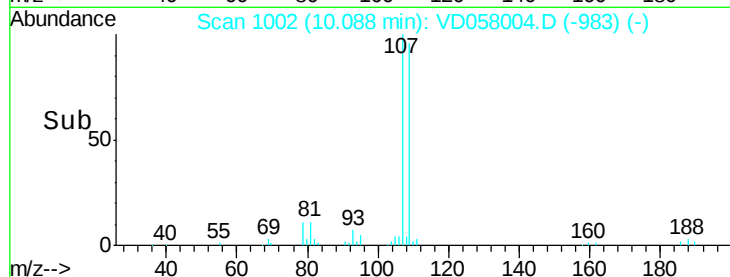
150000

100000

50000

0

Time--> 10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: 49.841 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

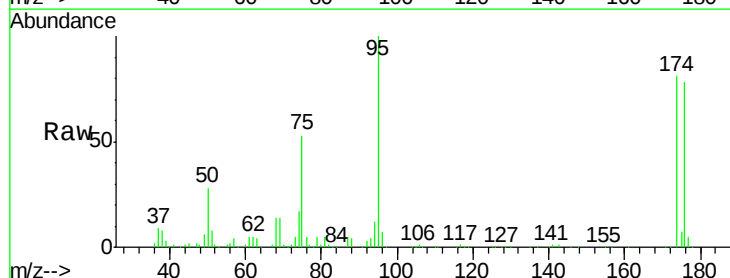
Tgt Ion: 95 Resp: 394945

Ion Ratio Lower Upper

95 100

174 81.4 0.0 169.4

176 77.7 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

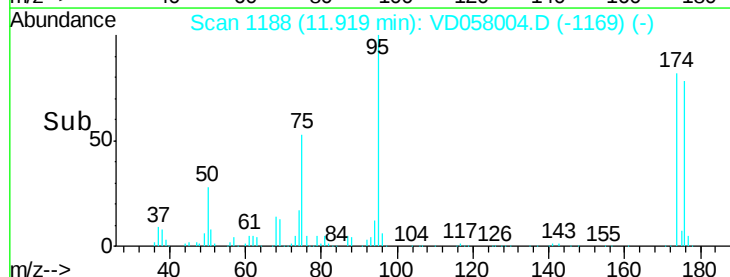
300000

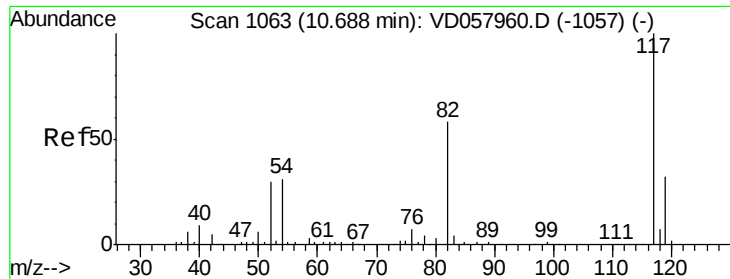
200000

100000

0

Time--> 11.90 12.00

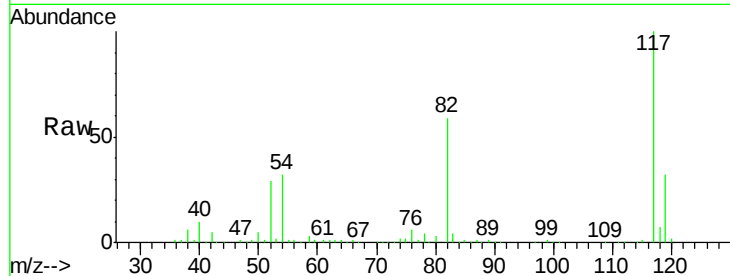




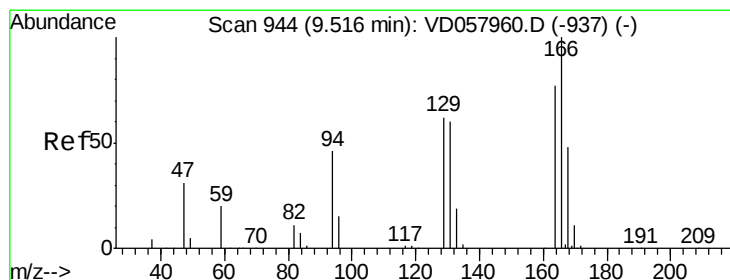
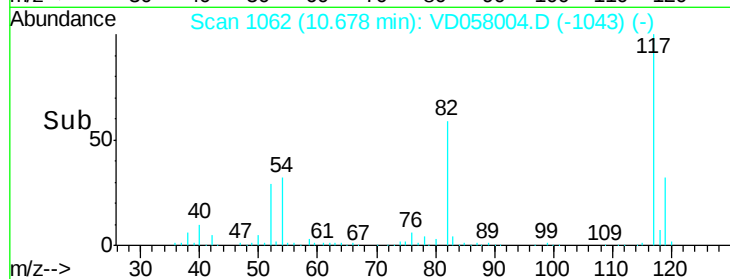
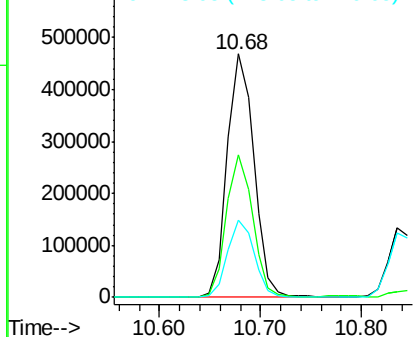
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

Tot Ion:117 Resp: 864813
Ion Ratio Lower Upper
117 100
82 58.6 46.8 70.2
119 31.5 25.8 38.6

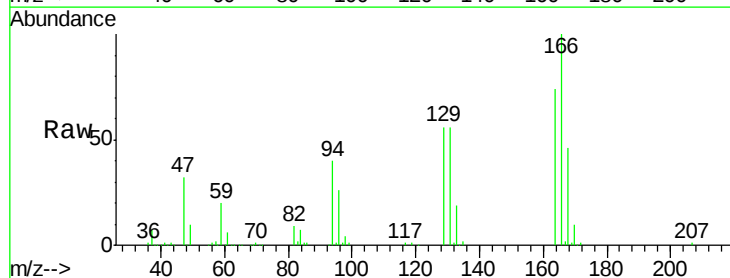


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

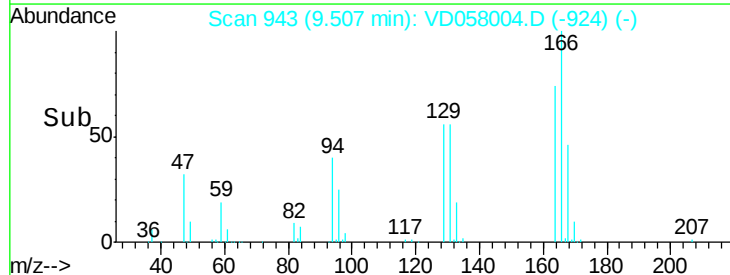
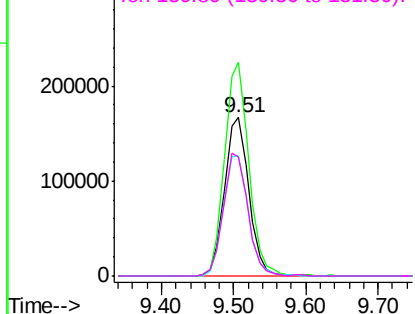


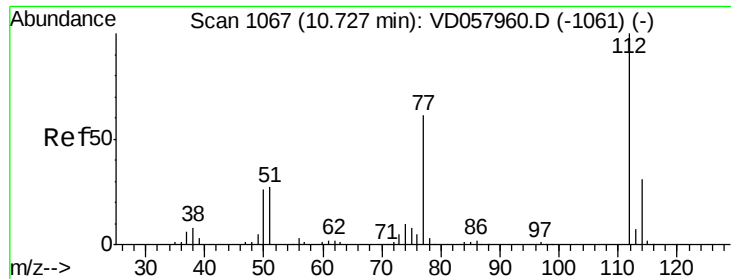
#64
Tetrachloroethene
Concen: 50.719 ug/l
RT: 9.51 min Scan# 943
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion:164 Resp: 392128
Ion Ratio Lower Upper
164 100
166 134.6 104.4 156.6
129 76.1 65.0 97.6
131 75.3 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

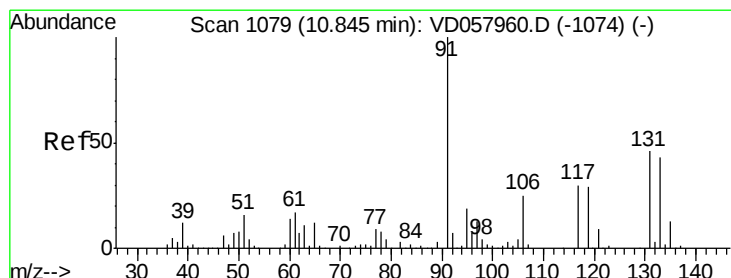
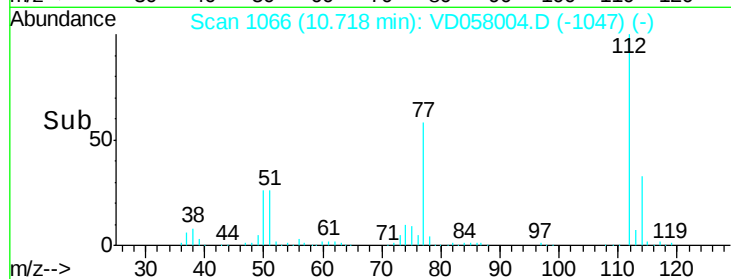
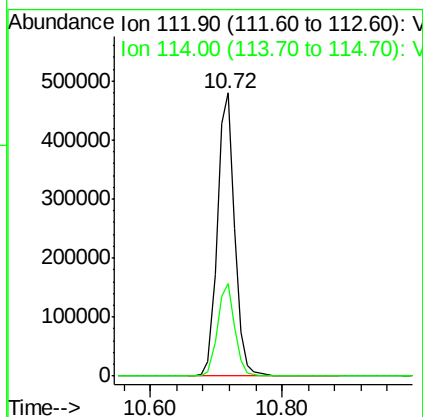
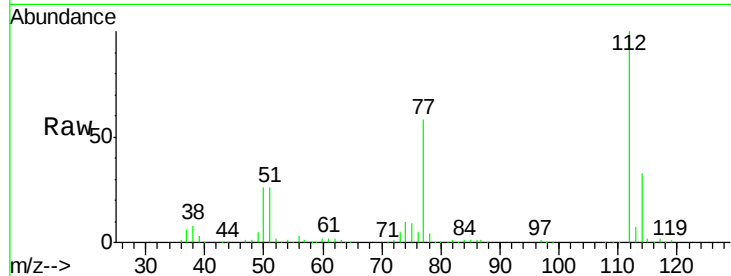




#65
Chlorobenzene
Concen: 49.700 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

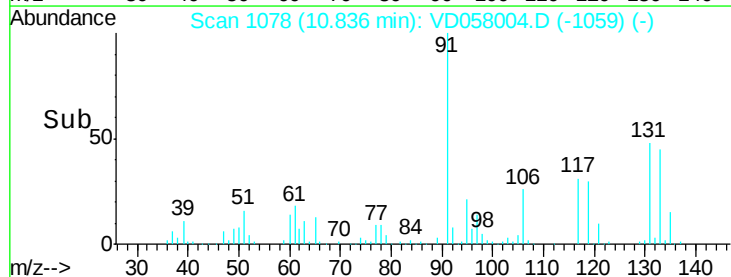
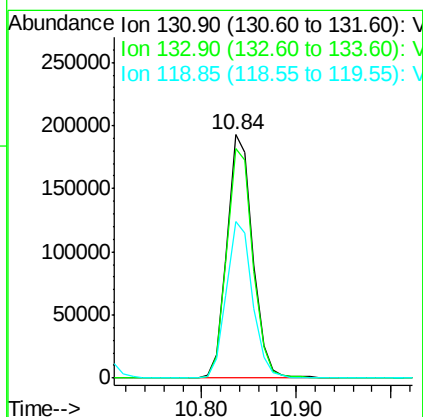
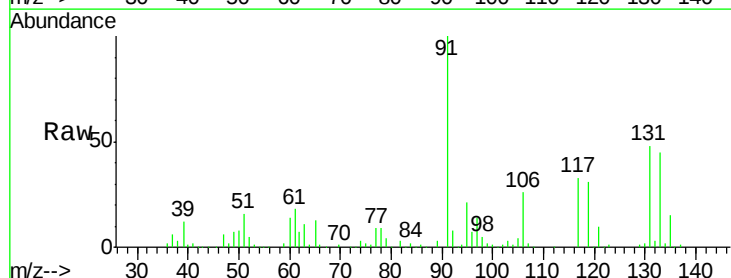
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

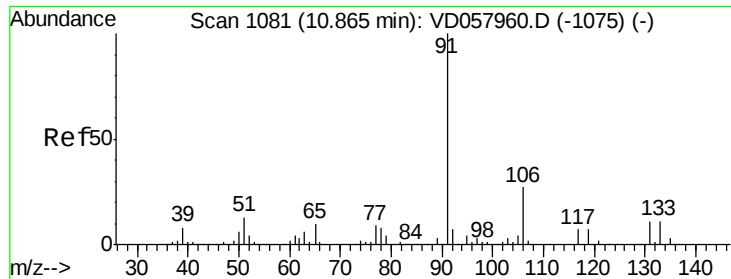
Tot Ion:112 Resp: 870126
Ion Ratio Lower Upper
112 100
114 32.9 24.9 37.3



#66
1,1,1,2-Tetrachloroethane
Concen: 54.002 ug/l
RT: 10.84 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion:131 Resp: 363238
Ion Ratio Lower Upper
131 100
133 94.4 46.9 140.6
119 64.2 31.8 95.3

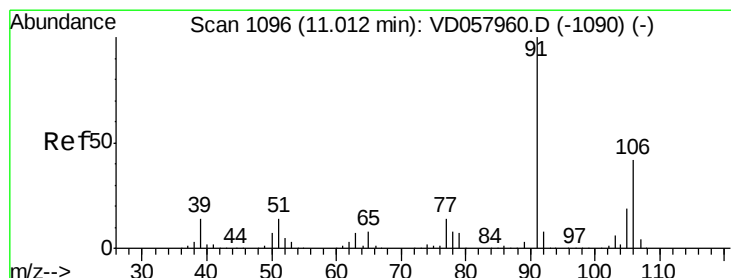
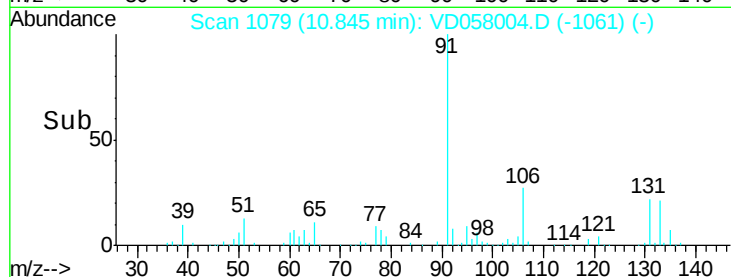
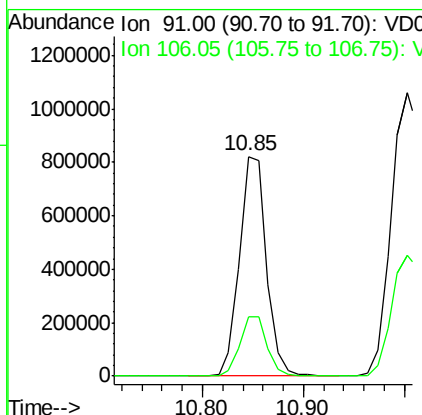
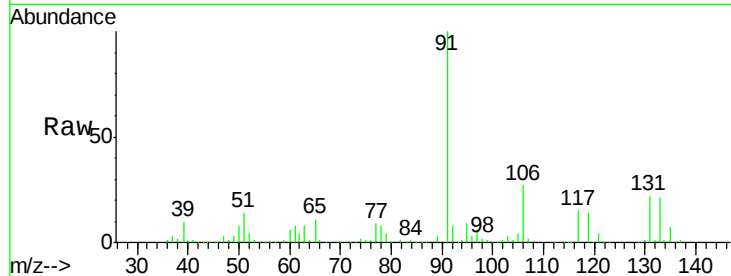




#67
Ethyl Benzene
Concen: 48.562 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. -0.02 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

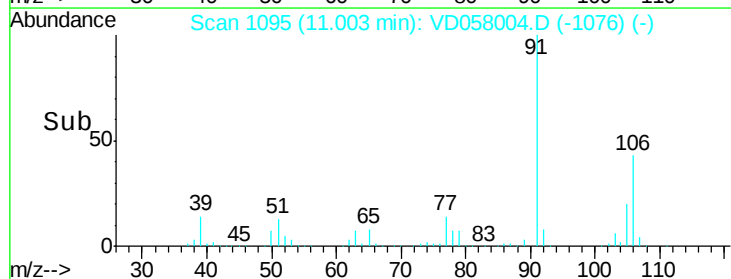
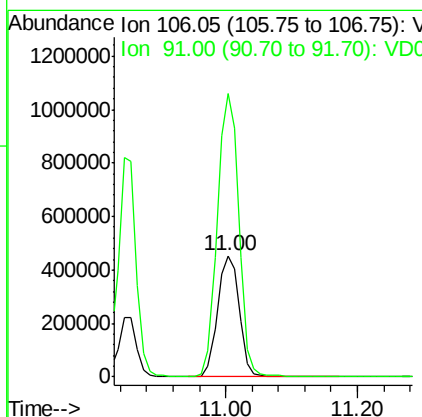
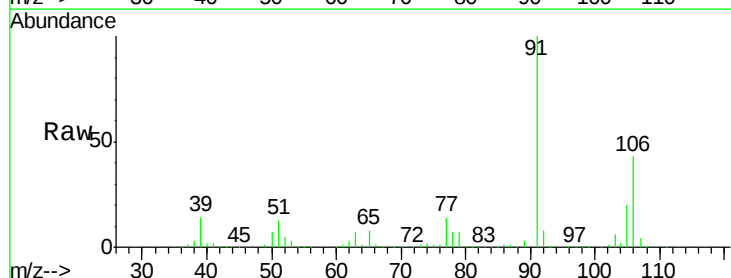
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

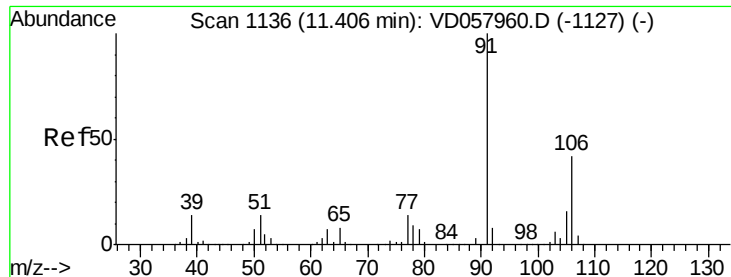
Tot Ion: 91 Resp: 1536004
Ion Ratio Lower Upper
91 100
106 26.8 21.5 32.3



#68
m/p-Xylenes
Concen: 100.307 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 106 Resp: 1034283
Ion Ratio Lower Upper
106 100
91 233.4 190.4 285.6

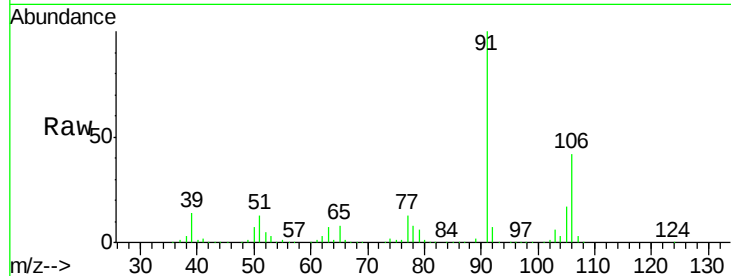




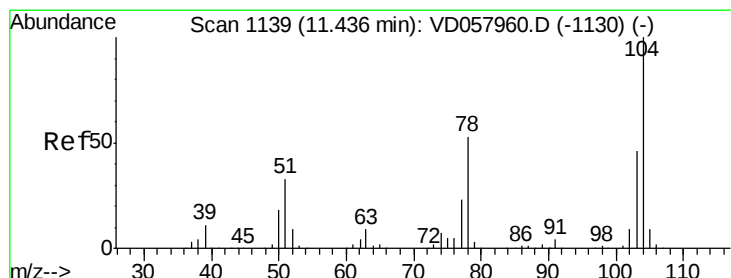
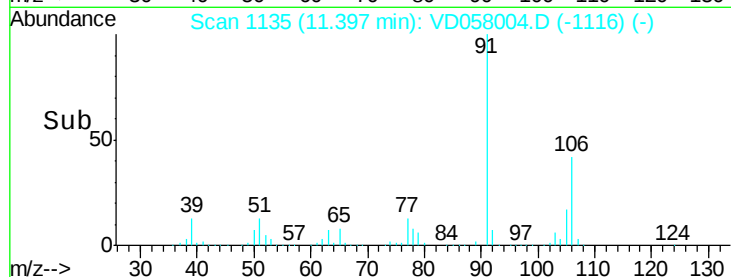
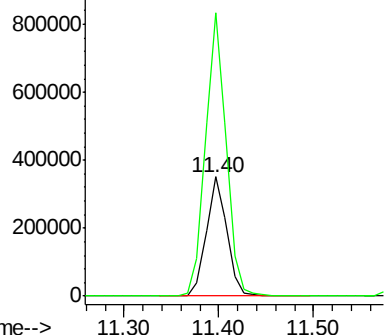
#69
o-Xylene
Concen: 51.892 ug/l
RT: 11.40 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

Tot Ion:106 Resp: 531116
Ion Ratio Lower Upper
106 100
91 237.2 120.6 361.7

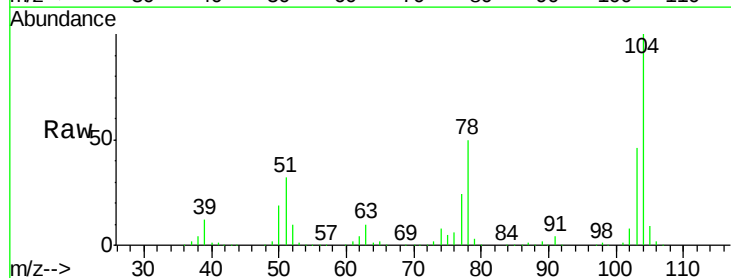


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

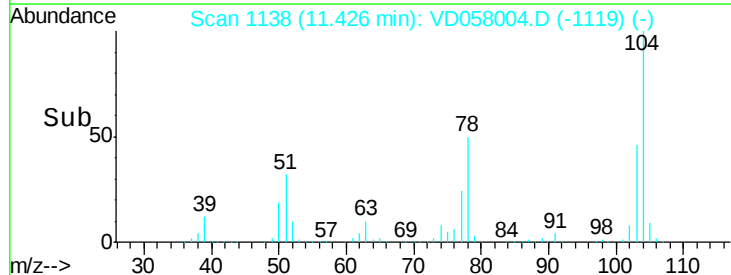
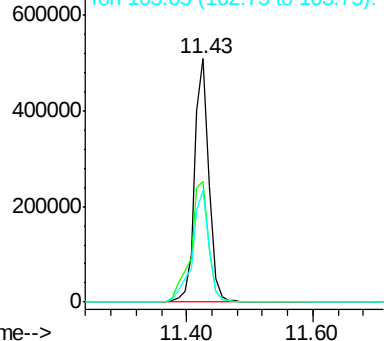


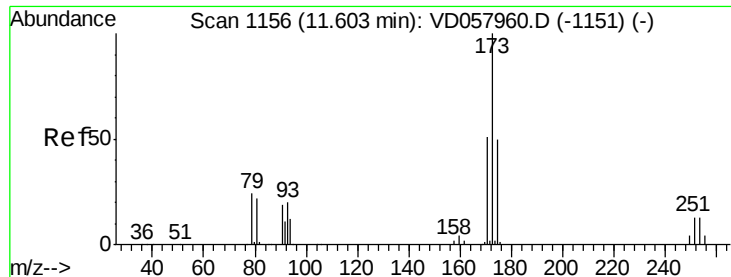
#70
Styrene
Concen: 47.463 ug/l
RT: 11.43 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion:104 Resp: 804181
Ion Ratio Lower Upper
104 100
78 49.8 42.1 63.1
103 46.0 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

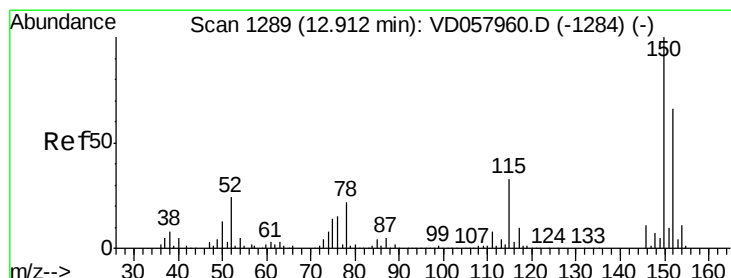
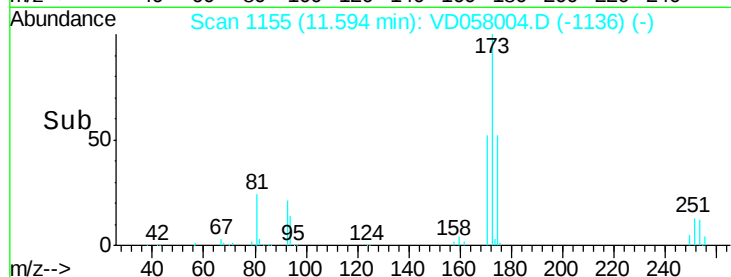
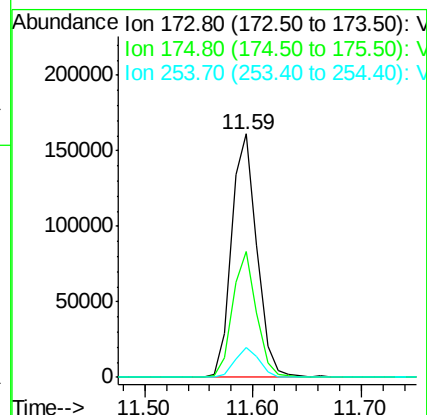
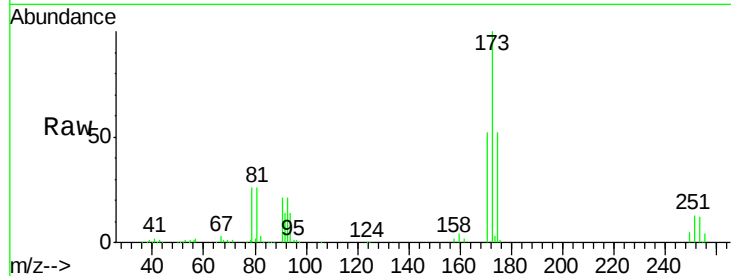




#71
Bromoform
Concen: 51.685 ug/l
RT: 11.59 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

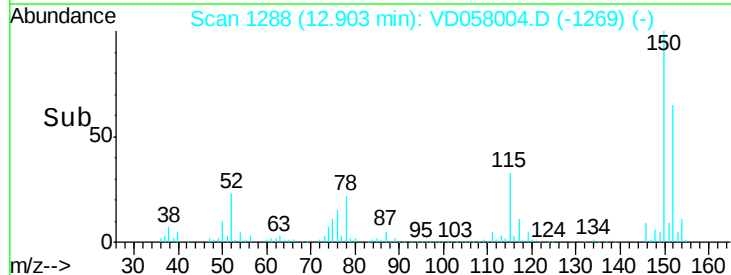
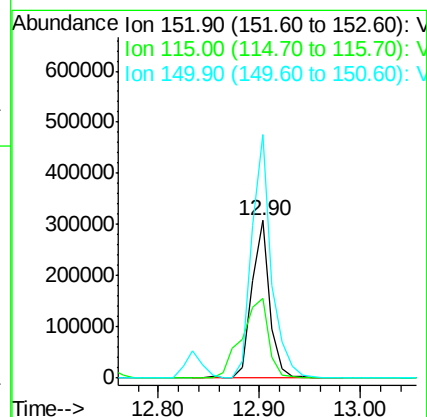
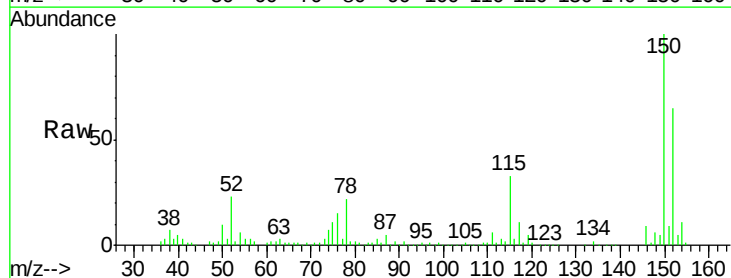
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

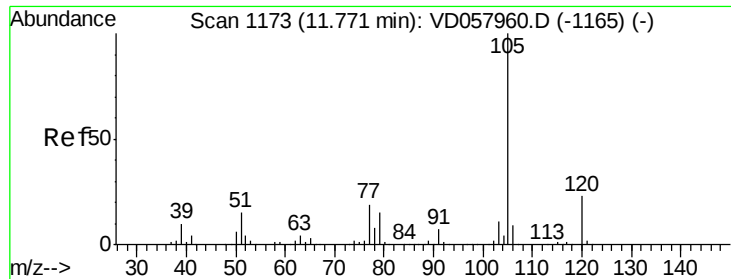
Tot Ion:173 Resp: 261530
Ion Ratio Lower Upper
173 100
175 51.5 25.1 75.2
254 12.5 10.7 16.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion:152 Resp: 380516
Ion Ratio Lower Upper
152 100
115 51.0 25.6 76.6
150 154.8 0.0 306.8





#73

Isopropylbenzene

Concen: 55.879 ug/l

RT: 11.76 min Scan# 1172

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

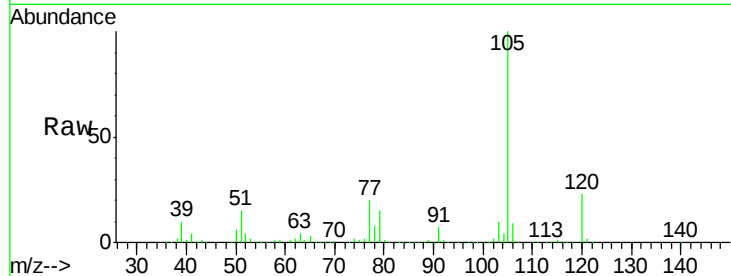
CAS1-SB-02-03-1-27MSD

Tot Ion:105 Resp: 1408345

Ion Ratio Lower Upper

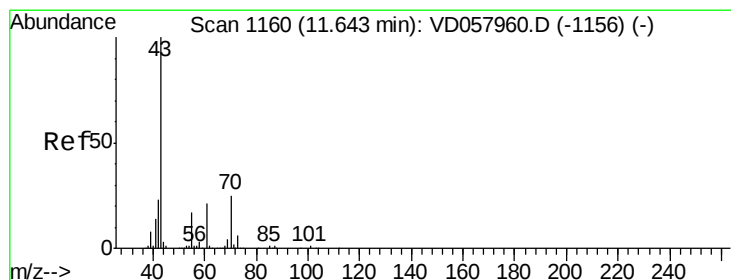
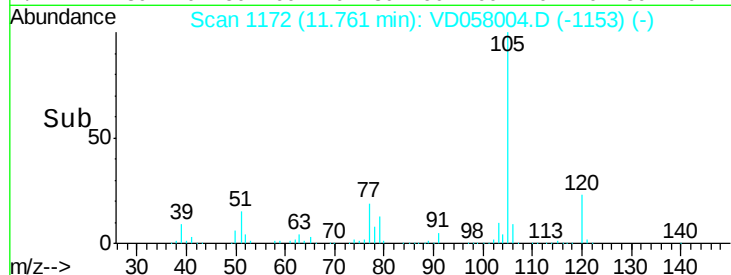
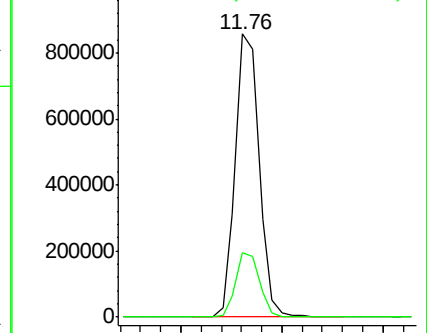
105 100

120 22.9 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: 55.267 ug/l

RT: 11.63 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Tgt Ion: 43 Resp: 537488

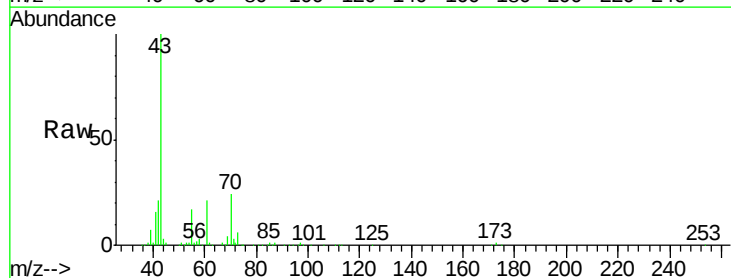
Ion Ratio Lower Upper

43 100

70 23.9 20.3 30.5

55 16.9 13.9 20.9

61 20.6 16.6 24.8

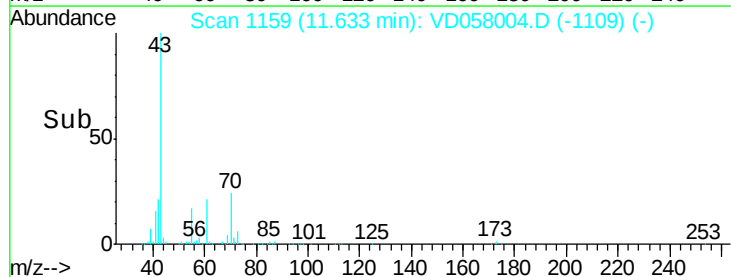
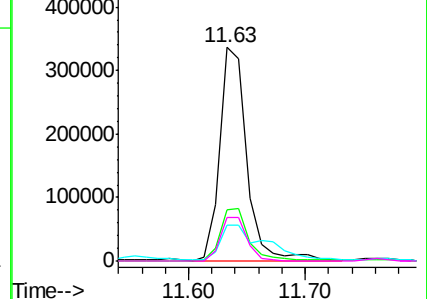


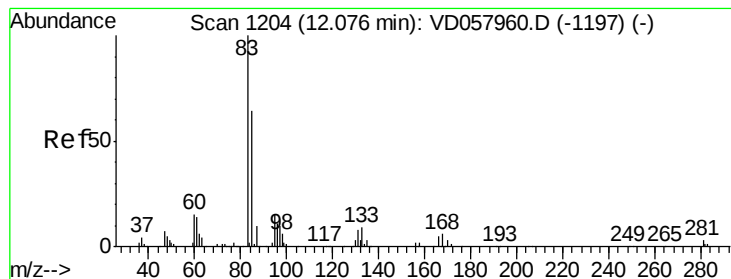
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 64.253 ug/l

RT: 12.07 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

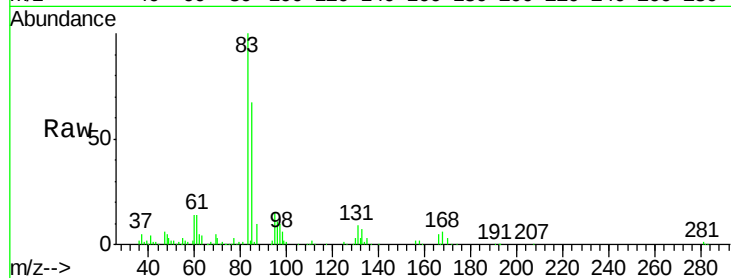
Tot Ion: 83 Resp: 353070

Ion Ratio Lower Upper

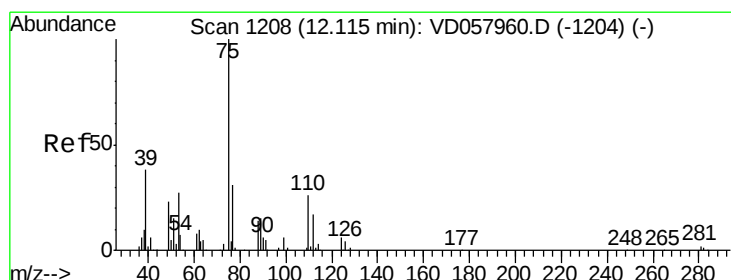
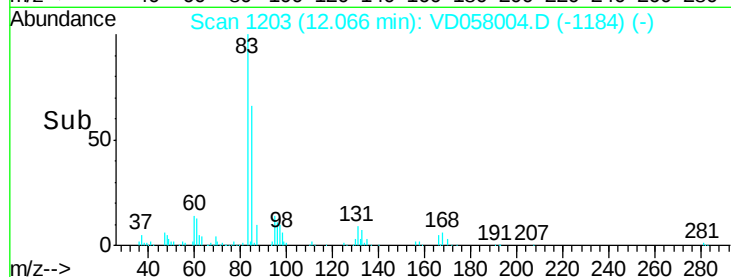
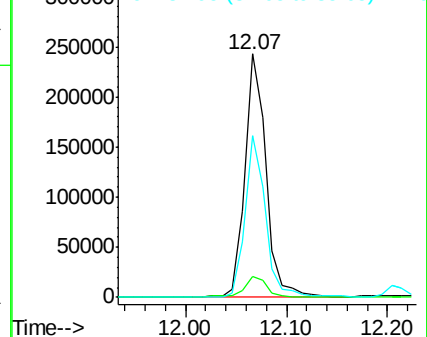
83 100

131 8.7 4.2 12.6

85 66.5 31.9 95.5



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 57.950 ug/l

RT: 12.11 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VD058004.D

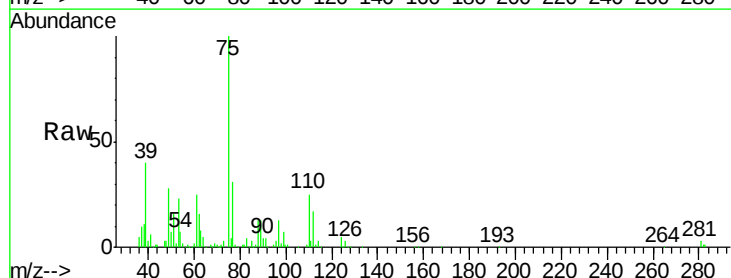
Acq: 8 Jun 2018 8:17

Tgt Ion: 75 Resp: 331239

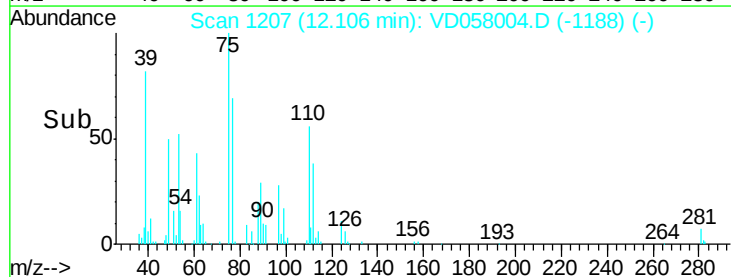
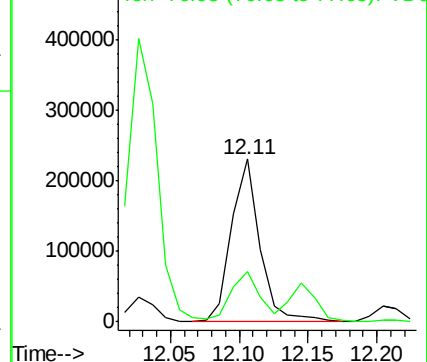
Ion Ratio Lower Upper

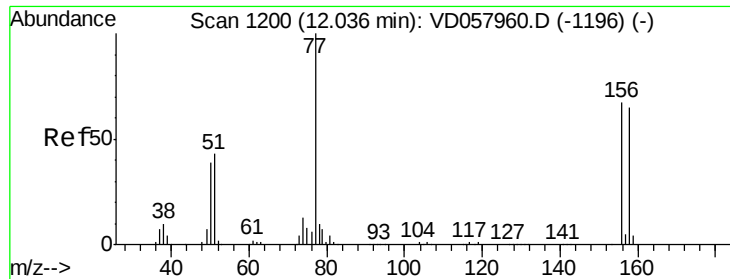
75 100

77 30.7 16.7 50.1



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC

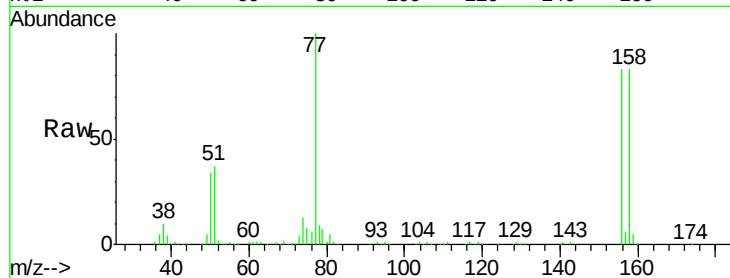




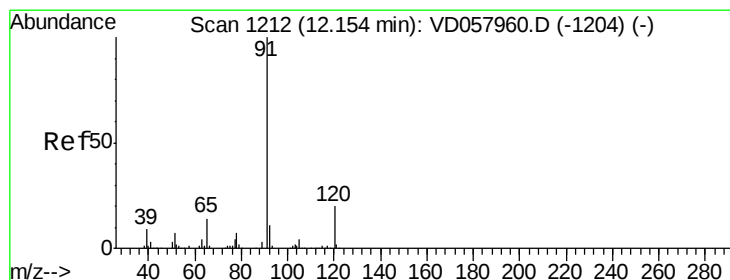
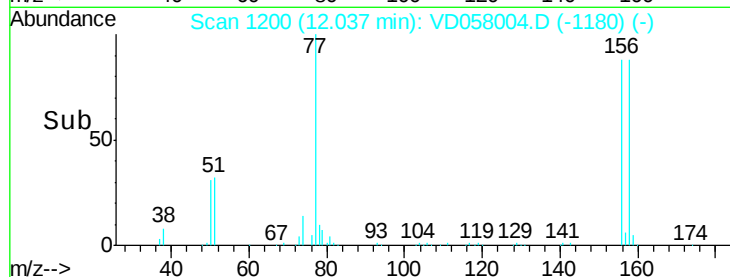
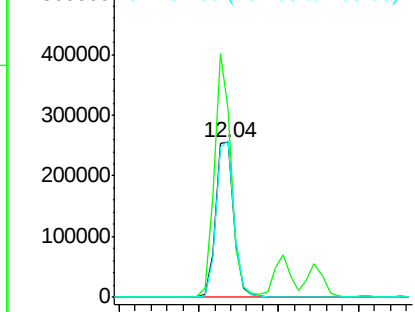
#77
Bromobenzene
Concen: 55.720 ug/l
RT: 12.04 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

Tot Ion:156 Resp: 415689
Ion Ratio Lower Upper
156 100
77 121.1 75.0 224.8
158 101.0 48.6 145.9

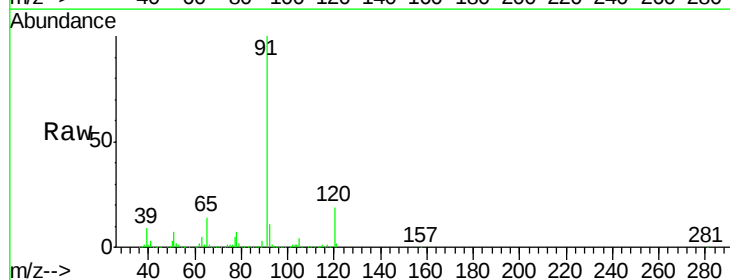


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V

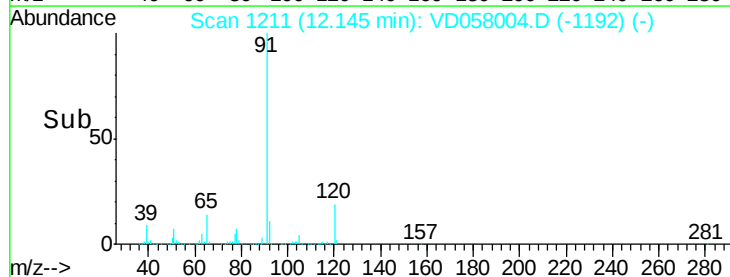
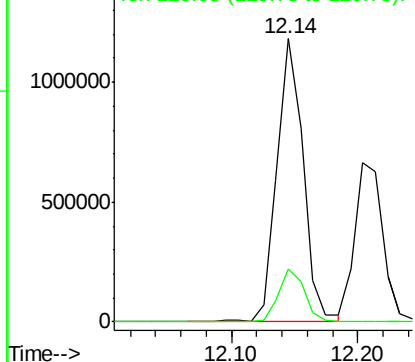


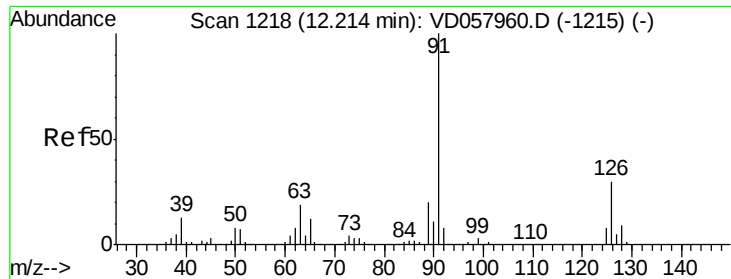
#78
n-propylbenzene
Concen: 52.321 ug/l
RT: 12.14 min Scan# 1211
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 91 Resp: 1715932
Ion Ratio Lower Upper
91 100
120 18.9 9.8 29.4



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V

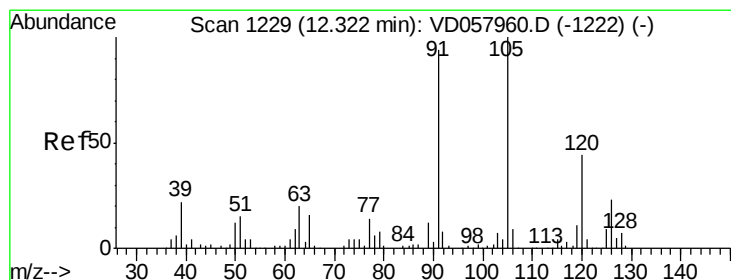
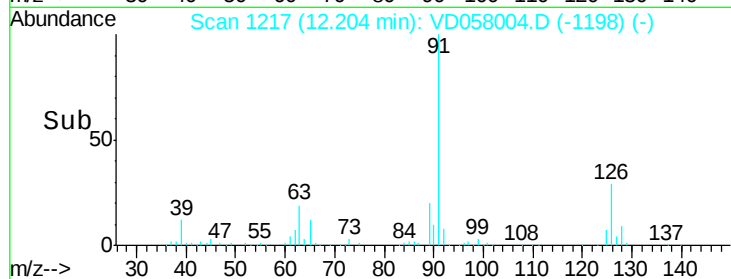
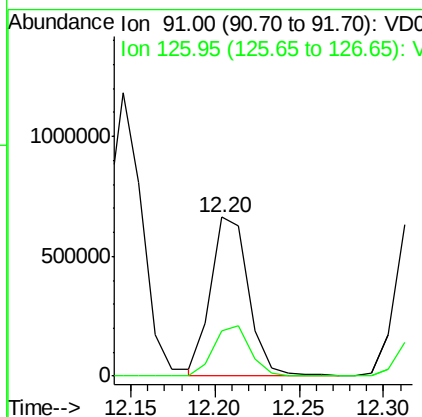
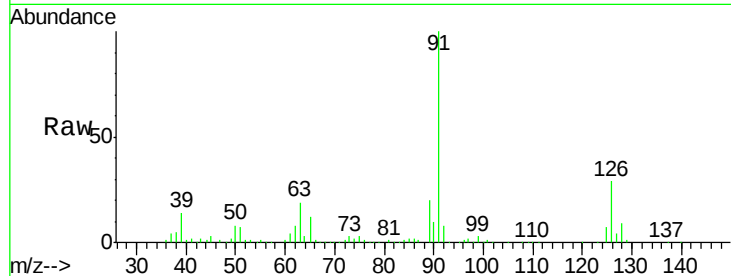




#79
 2-Chlorotoluene
 Concen: 54.837 ug/l
 RT: 12.20 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

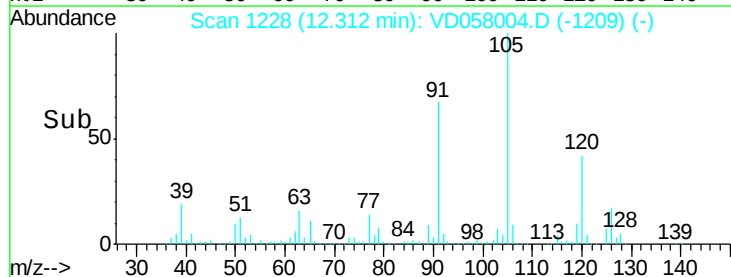
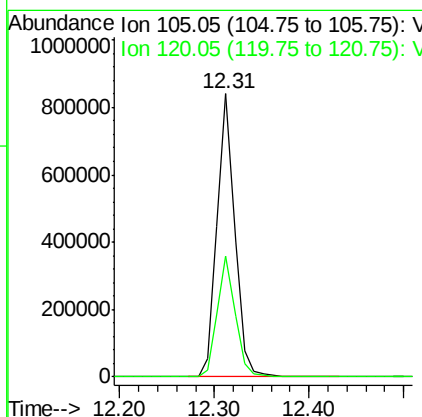
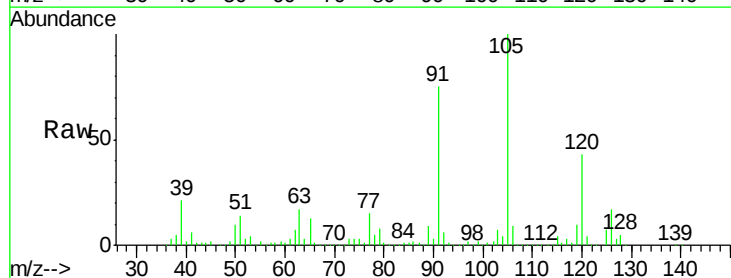
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

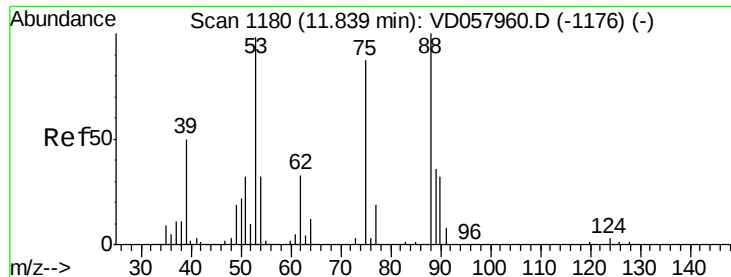
Tot Ion: 91 Resp: 1025993
 Ion Ratio Lower Upper
 91 100
 126 28.6 14.6 44.0



#80
 1,3,5-Trimethylbenzene
 Concen: 55.730 ug/l
 RT: 12.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion: 105 Resp: 1095397
 Ion Ratio Lower Upper
 105 100
 120 42.8 22.0 66.0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.786 ug/l

RT: 11.84 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

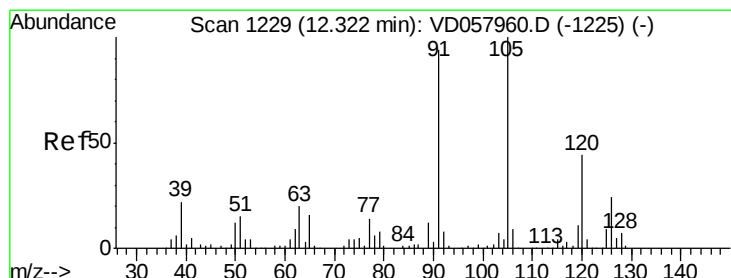
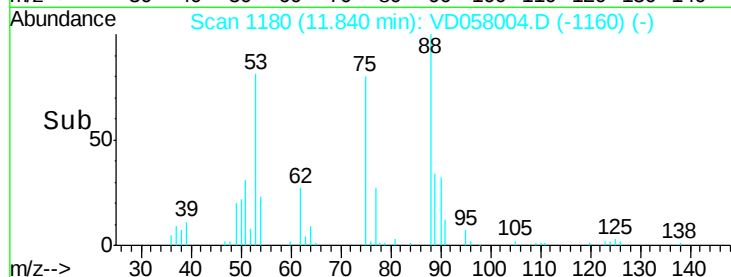
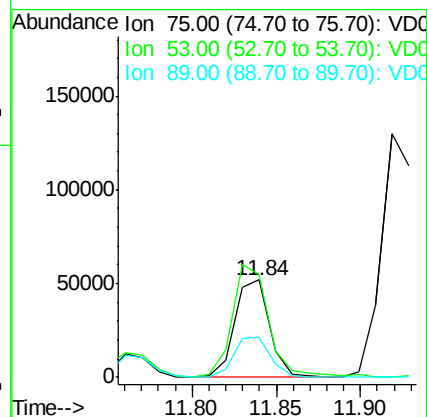
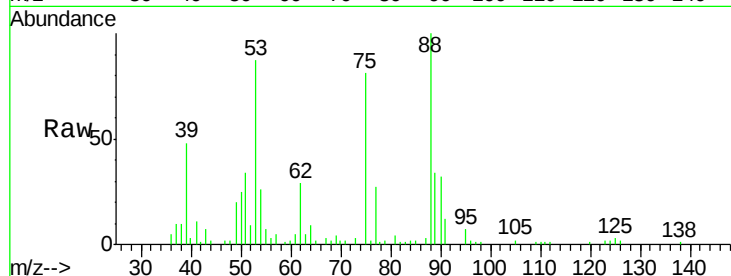
Tot Ion: 75 Resp: 74732

Ion Ratio Lower Upper

75 100

53 106.5 89.3 133.9

89 41.3 33.3 49.9



#82

4-Chlorotoluene

Concen: 59.225 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058004.D

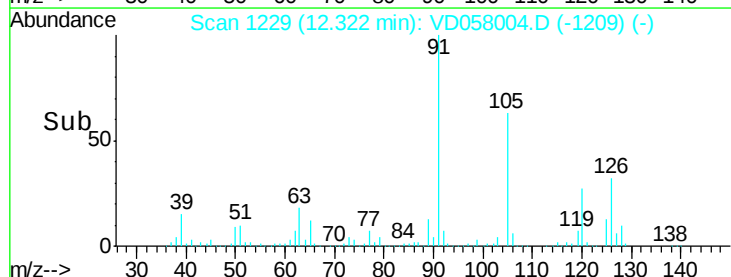
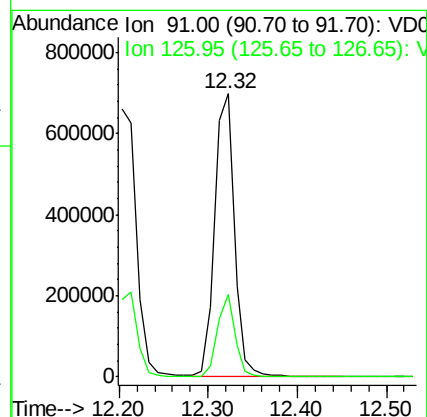
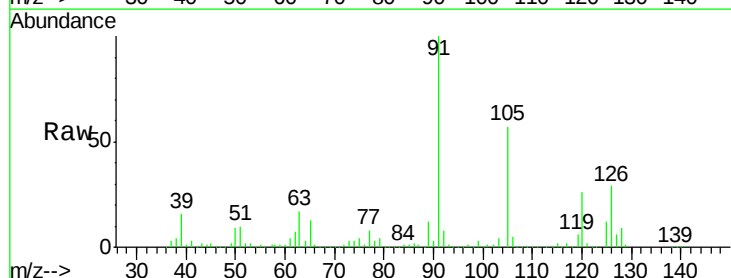
Acq: 8 Jun 2018 8:17

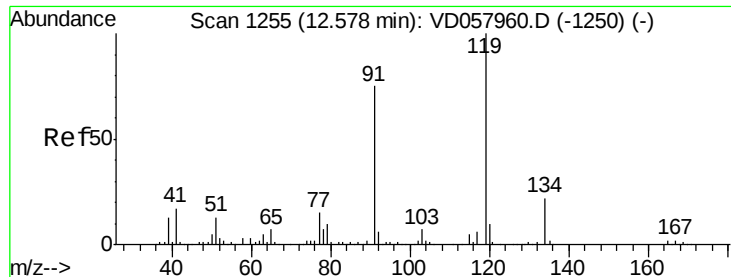
Tgt Ion: 91 Resp: 1066961

Ion Ratio Lower Upper

91 100

126 29.1 12.5 37.5





#83

tert-Butylbenzene

Concen: 56.212 ug/l

RT: 12.57 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD058004.D

Acq: 8 Jun 2018 8:17

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-03-1-27MSD

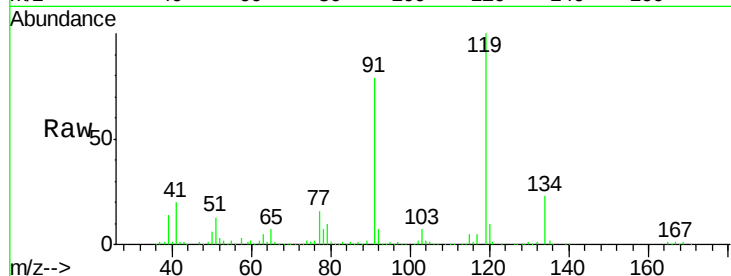
Tot Ion:119 Resp: 1247559

Ion Ratio Lower Upper

119 100

91 79.0 37.6 112.9

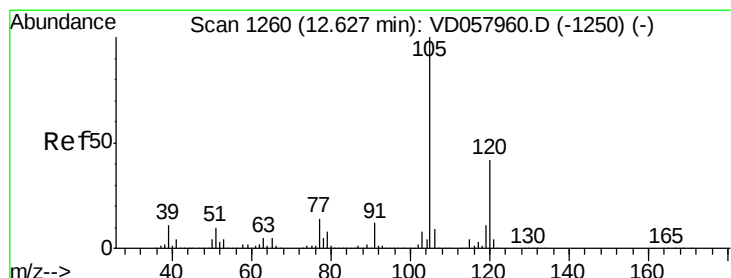
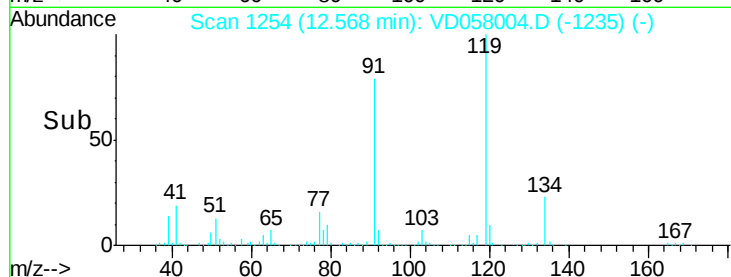
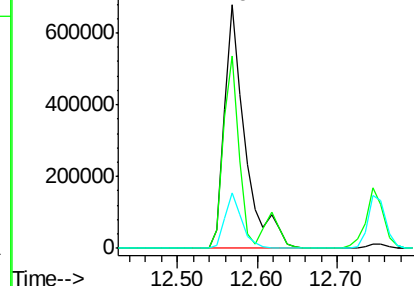
134 22.8 11.2 33.5



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 55.298 ug/l

RT: 12.62 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VD058004.D

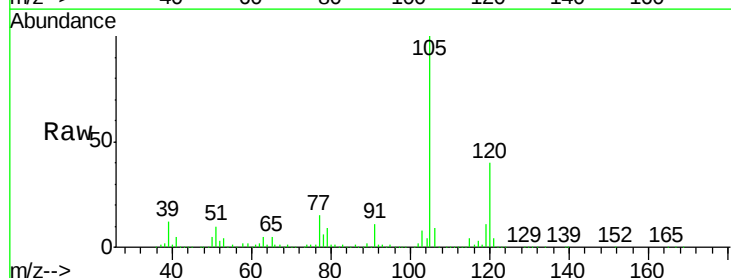
Acq: 8 Jun 2018 8:17

Tgt Ion:105 Resp: 1168645

Ion Ratio Lower Upper

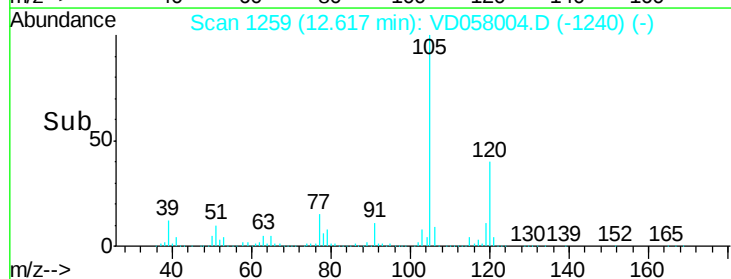
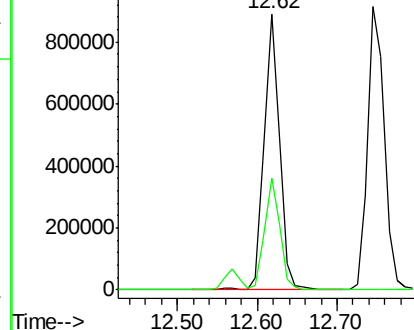
105 100

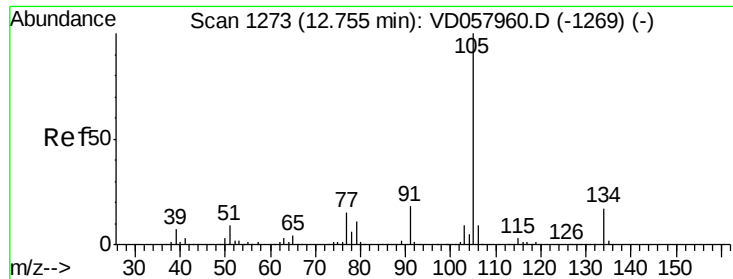
120 40.5 21.2 63.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

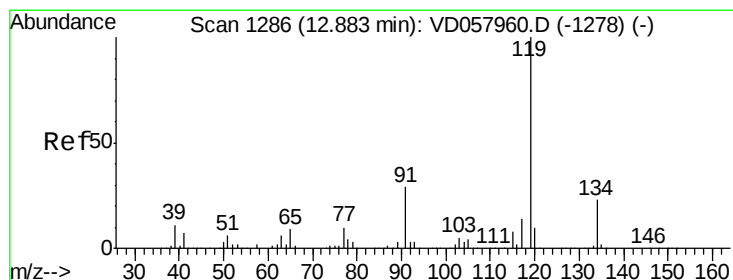
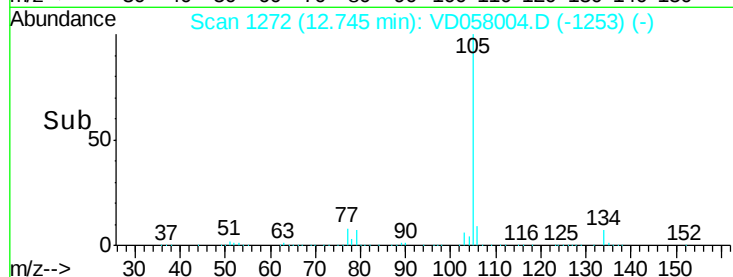
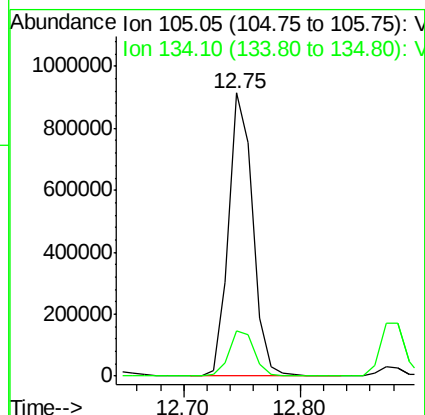
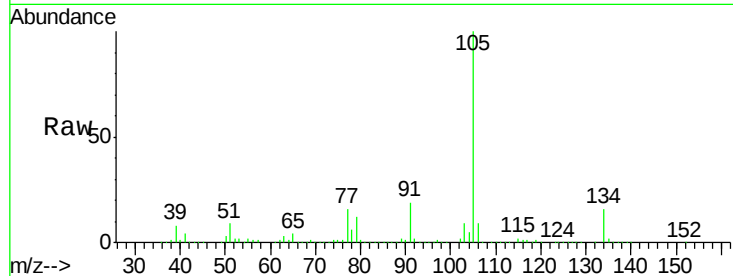




#85
 sec-Butylbenzene
 Concen: 48.961 ug/l
 RT: 12.75 min Scan# 1272
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

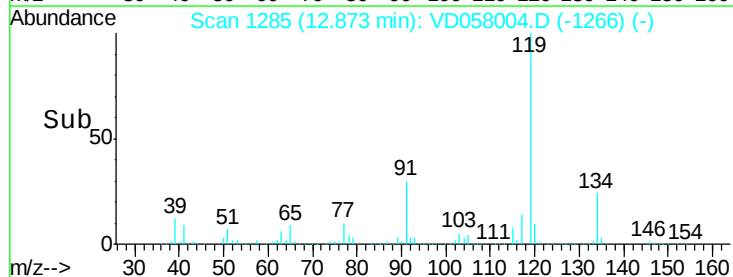
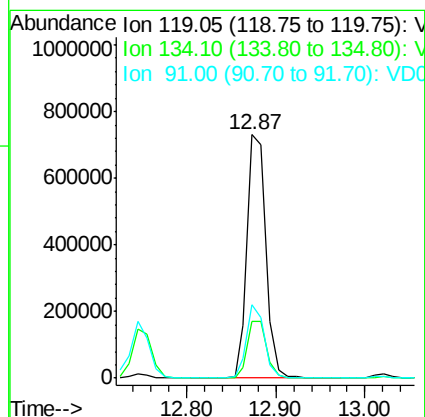
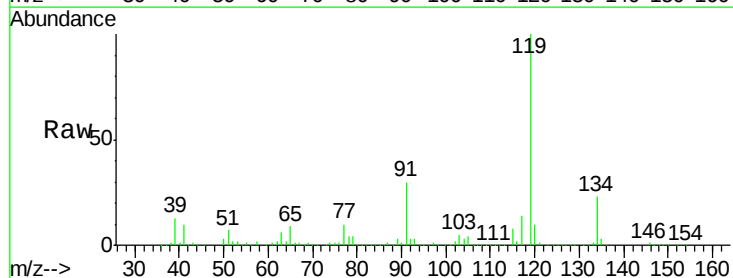
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

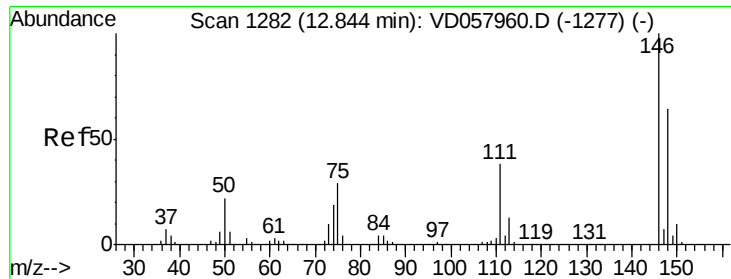
Tot Ion:105 Resp: 1311407
 Ion Ratio Lower Upper
 105 100
 134 16.0 8.3 25.1



#86
 p-Isopropyltoluene
 Concen: 49.708 ug/l
 RT: 12.87 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion:119 Resp: 1073096
 Ion Ratio Lower Upper
 119 100
 134 23.5 11.5 34.4
 91 29.9 14.5 43.6

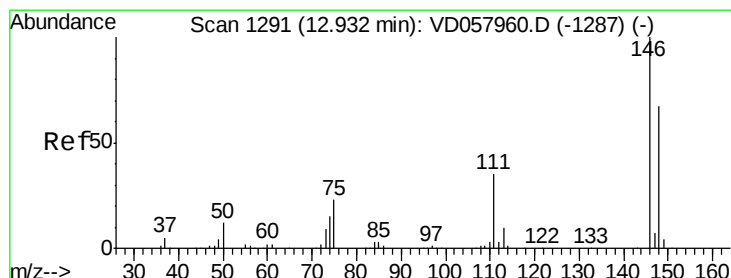
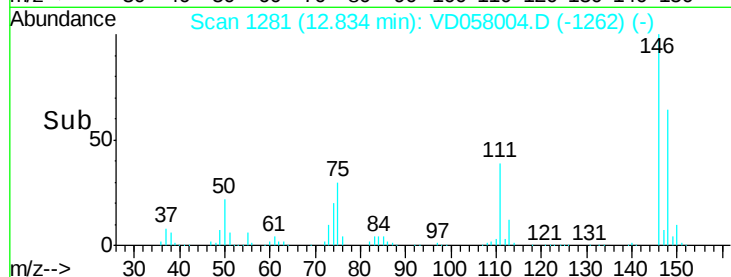
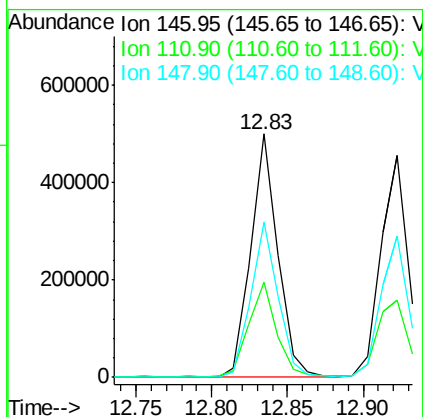
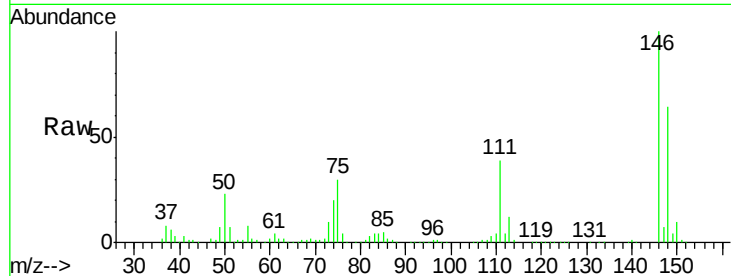




#87
 1,3-Dichlorobenzene
 Concen: 49.615 ug/l
 RT: 12.83 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

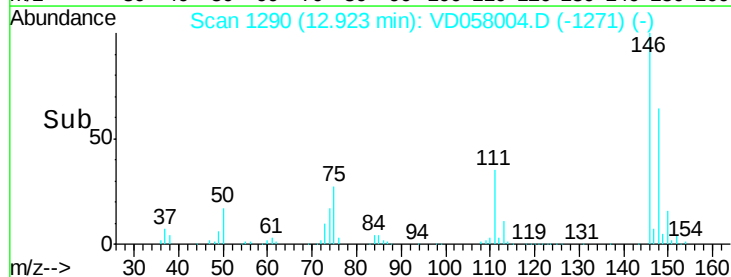
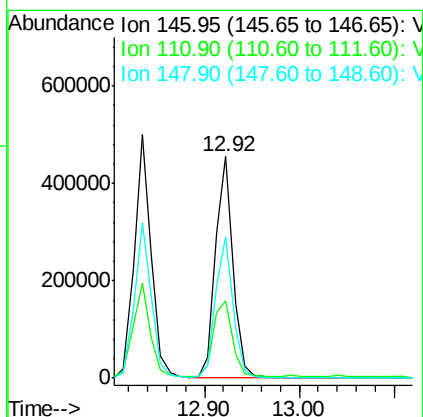
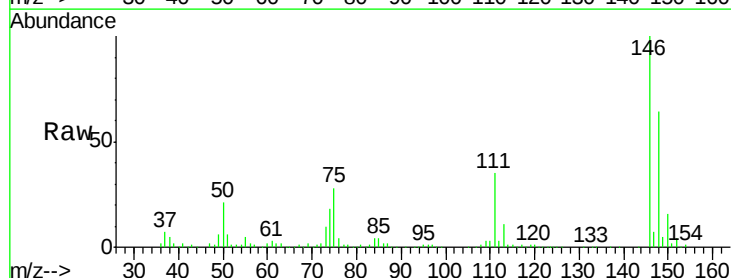
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

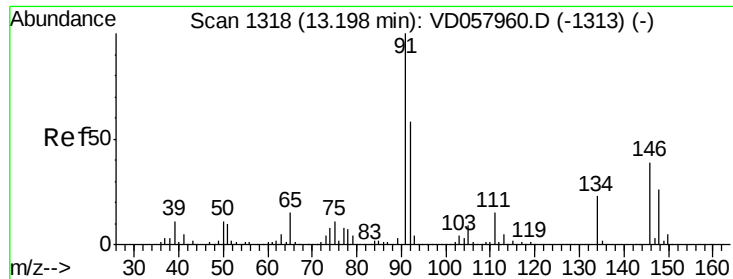
Tot Ion:146 Resp: 626128
 Ion Ratio Lower Upper
 146 100
 111 39.3 19.1 57.3
 148 64.0 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 47.418 ug/l
 RT: 12.92 min Scan# 1290
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion:146 Resp: 583043
 Ion Ratio Lower Upper
 146 100
 111 34.9 17.3 52.0
 148 64.0 33.4 100.2

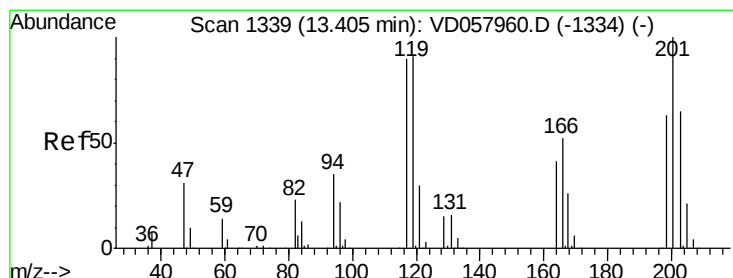
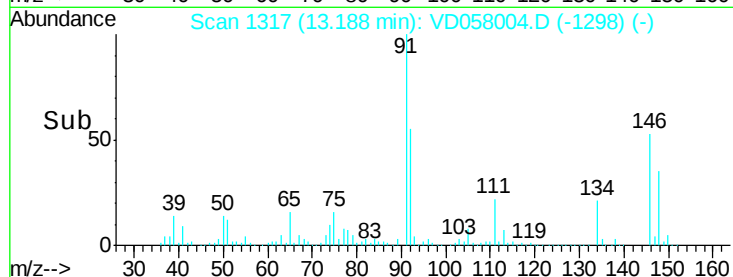
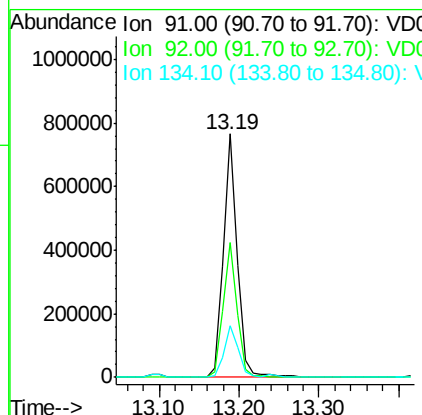
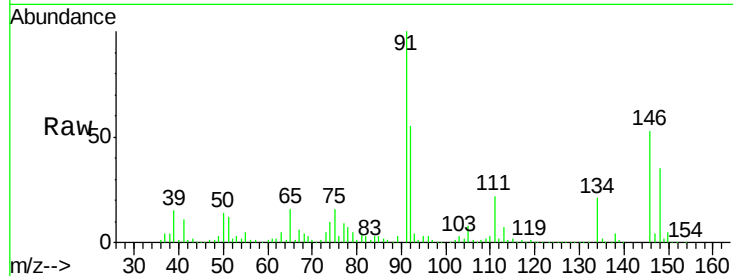




#89
n-Butylbenzene
Concen: 48.236 ug/l
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

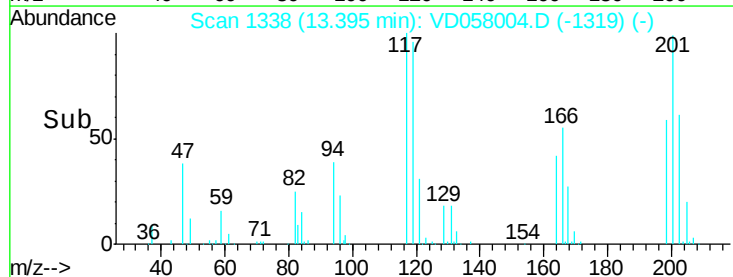
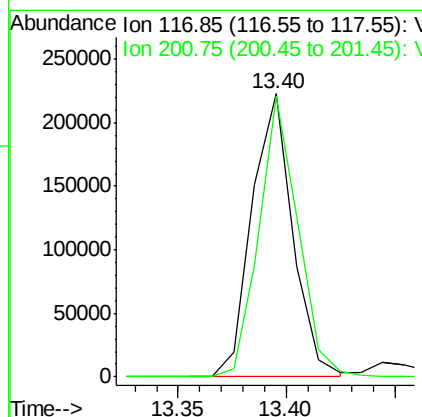
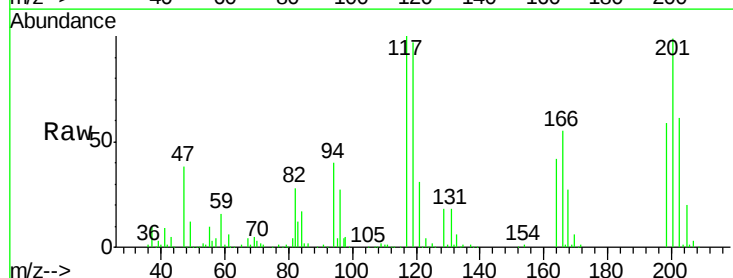
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

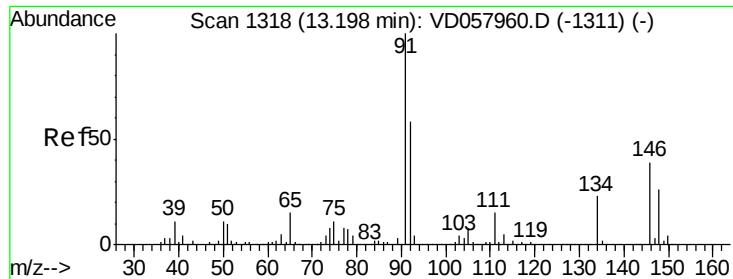
Tot Ion: 91 Resp: 941061
Ion Ratio Lower Upper
91 100
92 55.2 29.2 87.6
134 21.0 11.3 33.9



#90
Hexachloroethane
Concen: 53.394 ug/l
RT: 13.40 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion: 117 Resp: 294201
Ion Ratio Lower Upper
117 100
201 99.0 55.4 166.0

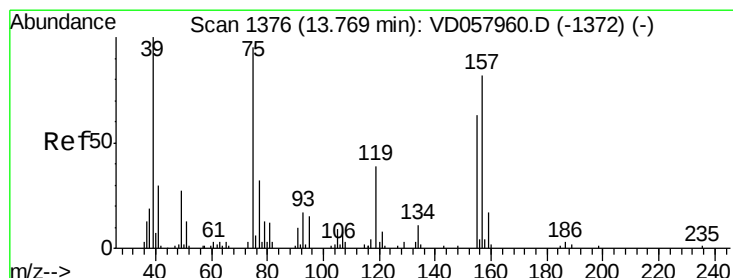
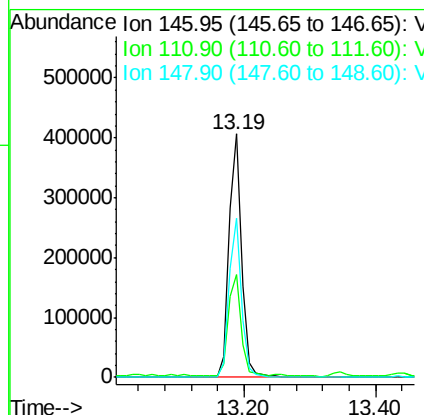
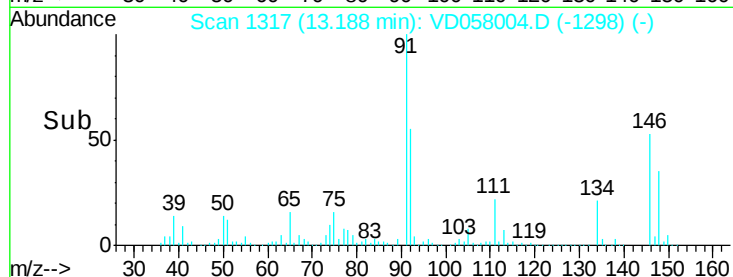
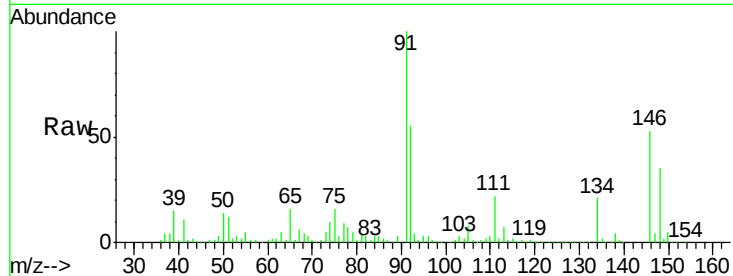




#91
 1,2-Dichlorobenzene
 Concen: 53.688 ug/l
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

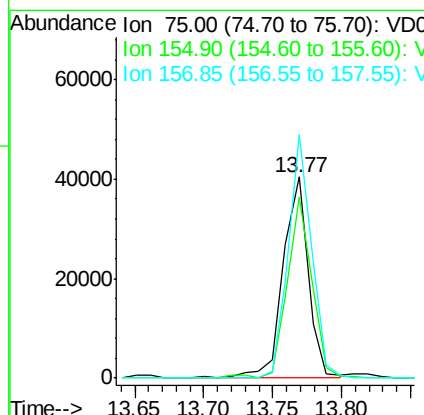
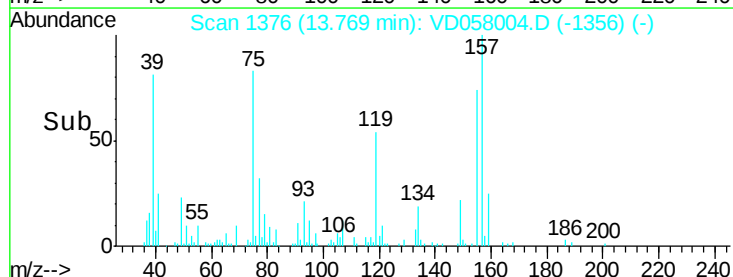
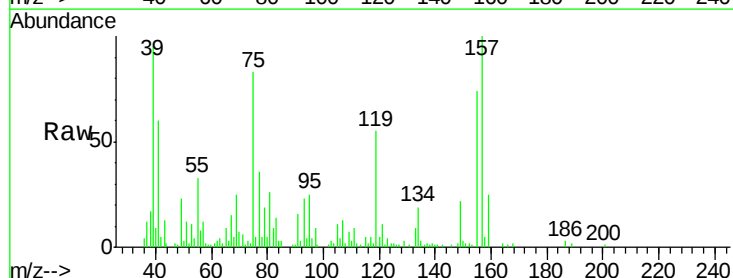
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

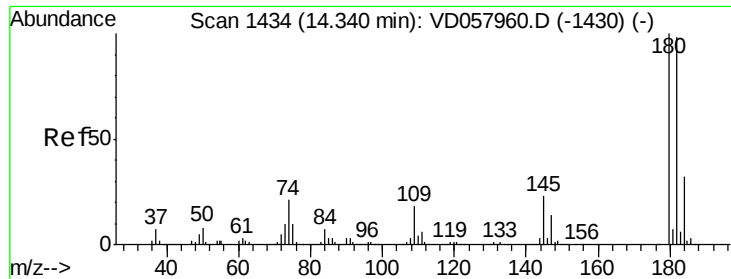
Tot Ion:146 Resp: 547532
 Ion Ratio Lower Upper
 146 100
 111 42.1 19.4 58.2
 148 65.4 32.6 98.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 60.278 ug/l
 RT: 13.77 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion: 75 Resp: 51120
 Ion Ratio Lower Upper
 75 100
 155 90.2 33.4 100.1
 157 121.2 42.9 128.5

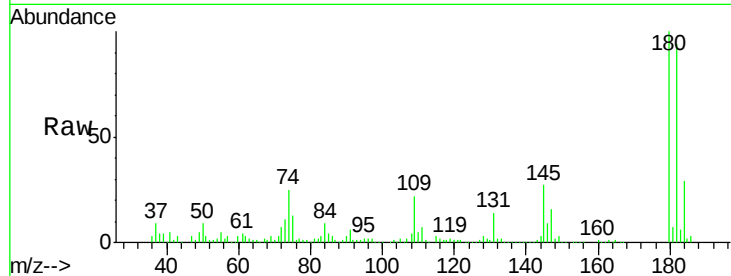




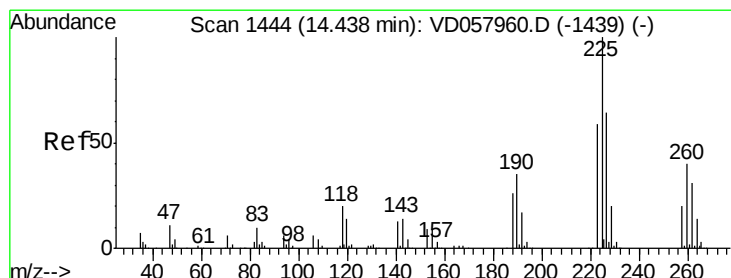
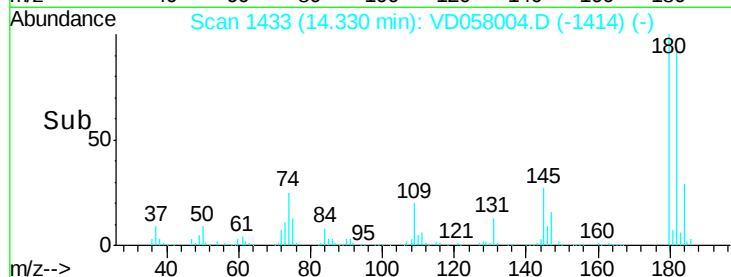
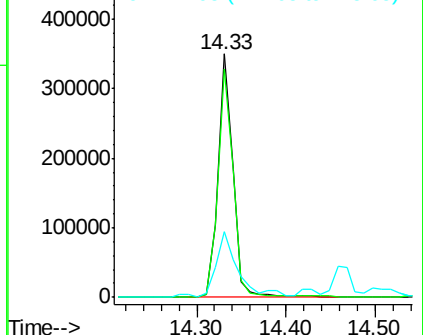
#93
 1,2,4-Trichlorobenzene
 Concen: 43.224 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-03-1-27MSD

Tot Ion:180 Resp: 411843
 Ion Ratio Lower Upper
 180 100
 182 93.9 49.0 147.2
 145 27.2 11.8 35.3

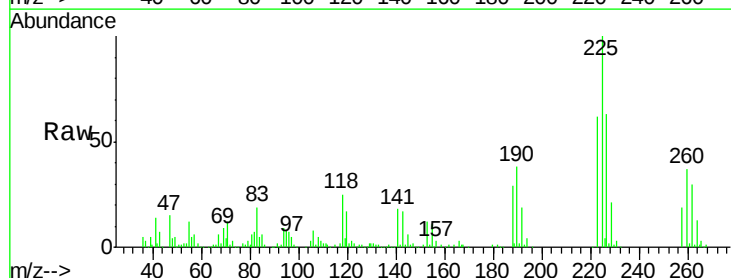


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

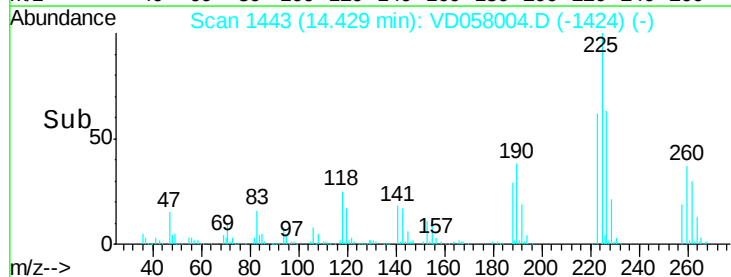
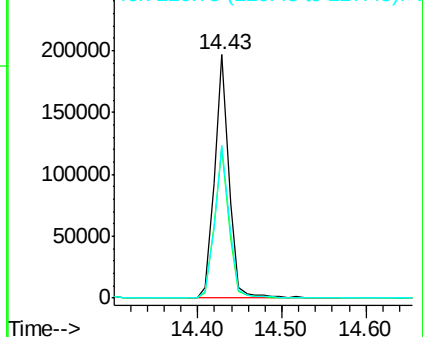


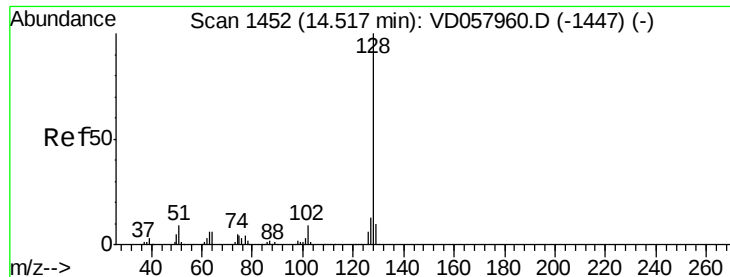
#94
 Hexachlorobutadiene
 Concen: 31.332 ug/l
 RT: 14.43 min Scan# 1443
 Delta R.T. -0.01 min
 Lab File: VD058004.D
 Acq: 8 Jun 2018 8:17

Tgt Ion:225 Resp: 234814
 Ion Ratio Lower Upper
 225 100
 223 61.8 29.5 88.6
 227 62.8 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

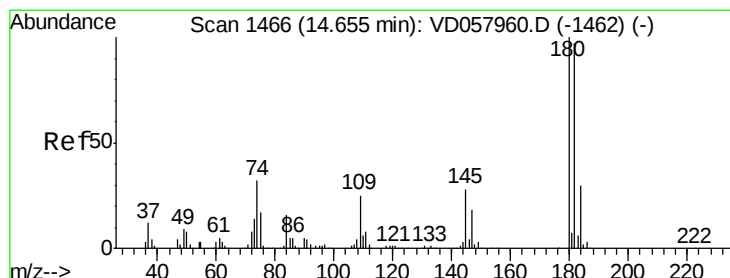
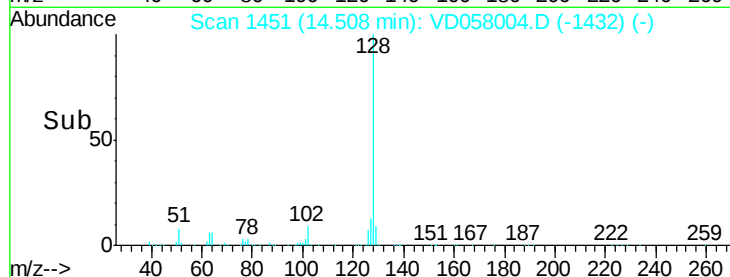
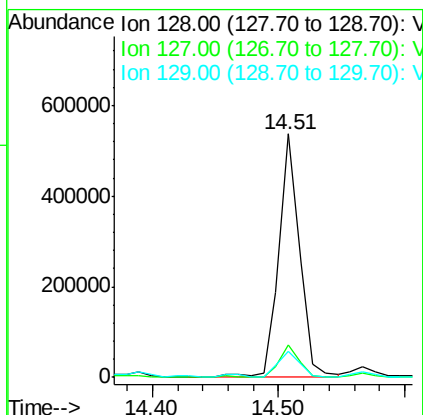
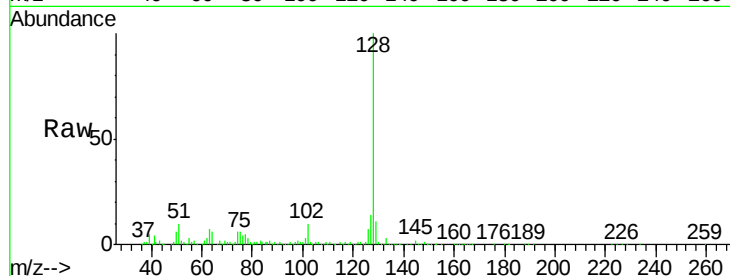




#95
Naphthalene
Concen: 50.047 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-03-1-27MSD

Tot Ion:128 Resp: 614820
Ion Ratio Lower Upper
128 100
127 13.5 10.2 15.2
129 10.8 8.2 12.2



#96
1,2,3-Trichlorobenzene
Concen: 44.989 ug/l
RT: 14.66 min Scan# 1466
Delta R.T. 0.00 min
Lab File: VD058004.D
Acq: 8 Jun 2018 8:17

Tgt Ion:180 Resp: 365307
Ion Ratio Lower Upper
180 100
182 96.0 48.5 145.5
145 32.9 14.2 42.8

