

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122818\
 Data File : VD060751.D
 Acq On : 28 Dec 2018 17:27
 Operator : VA/AP
 Sample : VD1228SBSD01
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

Quant Time: Dec 28 22:03:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1350252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.46	114	2007418	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.29	117	1561591	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.38	152	750654	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.80	65	503274	53.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.88%	
35) Dibromofluoromethane	6.33	113	732046	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
50) Toluene-d8	9.46	98	2204845	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
62) 4-Bromofluorobenzene	12.44	95	773436	50.37	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.74%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.60	85	291931	16.921	ug/l 99
3) Chloromethane	1.77	50	284854	17.940	ug/l 97
4) Vinyl Chloride	1.87	62	230072	18.251	ug/l 99
5) Bromomethane	2.16	94	42345	14.996	ug/l 98
6) Chloroethane	2.27	64	73751	19.604	ug/l 98
7) Trichlorofluoromethane	2.53	101	260874	18.605	ug/l 98
8) Diethyl Ether	2.84	74	44830	19.110	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.11	101	170447	18.740	ug/l 97
10) Methyl Iodide	3.26	142	164207	17.179	ug/l 99
11) Tert butyl alcohol	3.98	59	38091	97.676	ug/l # 95
12) 1,1-Dichloroethene	3.09	96	134658	18.019	ug/l 97
13) Acrolein	3.00	56	40886	102.884	ug/l 97
14) Allyl chloride	3.55	41	253821	18.510	ug/l 97
15) Acrylonitrile	4.10	53	226382	99.991	ug/l 97
16) Acetone	3.18	43	146526	89.917	ug/l 100
17) Carbon Disulfide	3.33	76	411952	17.260	ug/l 100
18) Methyl Acetate	3.57	43	72121	17.858	ug/l # 91
19) Methyl tert-butyl Ether	4.14	73	386621	20.391	ug/l 99
20) Methylene Chloride	3.74	84	291430	17.221	ug/l 98
21) trans-1,2-Dichloroethene	4.12	96	298066	19.475	ug/l 97
22) Diisopropyl ether	4.87	45	899533	19.320	ug/l 99
23) Vinyl Acetate	4.82	43	2123940	94.290	ug/l 99
24) 1,1-Dichloroethane	4.77	63	461445	18.842	ug/l 99
25) 2-Butanone	5.64	43	292672	93.857	ug/l 98
26) 2,2-Dichloropropane	5.60	77	353894	18.307	ug/l 100
27) cis-1,2-Dichloroethene	5.61	96	305828	19.684	ug/l 97
28) Bromochloromethane	5.94	49	191266	18.487	ug/l 91
29) Tetrahydrofuran	5.97	42	164292	92.938	ug/l 98
30) Chloroform	6.12	83	443519	17.998	ug/l 99
31) Cyclohexane	6.38	56	446244	18.935	ug/l 98
32) 1,1,1-Trichloroethane	6.30	97	380150	18.646	ug/l 97
36) 1,1-Dichloropropene	6.53	75	354165	17.134	ug/l 100
37) Ethyl Acetate	5.70	43	150997	17.466	ug/l # 94
38) Carbon Tetrachloride	6.51	117	312174	17.118	ug/l 99

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.05	83	409512	17.370	ug/l	93
40) Benzene	6.81	78	935971	17.529	ug/l	99
41) Methacrylonitrile	5.96	41	178441	37.316	ug/l #	73
42) 1,2-Dichloroethane	6.91	62	230235	17.376	ug/l	99
43) Isopropyl Acetate	8.36	43	194956	17.573	ug/l #	98
44) Trichloroethene	7.75	130	296158	18.740	ug/l	99
45) 1,2-Dichloropropane	8.12	63	233580	17.838	ug/l	98
46) Dibromomethane	8.22	93	129978	17.392	ug/l	90
47) Bromodichloromethane	8.50	83	286612	16.192	ug/l	99
48) Methyl methacrylate	8.25	41	121497	18.031	ug/l	96
49) 1,4-Dioxane	8.24	88	23490	374.935	ug/l #	85
51) 4-Methyl-2-Pentanone	9.36	43	605350	89.061	ug/l	98
52) Toluene	9.56	92	588079	17.569	ug/l	99
53) t-1,3-Dichloropropene	9.93	75	244871	16.582	ug/l	99
54) cis-1,3-Dichloropropene	9.11	75	332554	17.205	ug/l	97
55) 1,1,2-Trichloroethane	10.19	97	169467	18.817	ug/l	94
56) Ethyl methacrylate	10.03	69	150603	18.004	ug/l	96
57) 1,3-Dichloropropane	10.39	76	238857	16.732	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.93	63	460938	93.517	ug/l	99
59) 2-Hexanone	10.50	43	423152	88.941	ug/l	100
60) Dibromochloromethane	10.64	129	194596	16.963	ug/l	98
61) 1,2-Dibromoethane	10.76	107	165039	17.667	ug/l	100
64) Tetrachloroethene	10.26	164	256226	18.103	ug/l	95
65) Chlorobenzene	11.32	112	667256	19.340	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.42	131	205929	18.564	ug/l	96
67) Ethyl Benzene	11.43	91	1095962	18.548	ug/l	99
68) m/p-Xylenes	11.57	106	849130	39.324	ug/l	99
69) o-Xylene	11.94	106	410081	20.017	ug/l	100
70) Styrene	11.96	104	647405	19.621	ug/l	99
71) Bromoform	12.12	173	121617	16.609	ug/l	94
73) Isopropylbenzene	12.28	105	1091625	20.425	ug/l	99
74) N-amyl acetate	12.14	43	259084	20.540	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	166804	19.255	ug/l	99
76) 1,2,3-Trichloropropane	12.60	75	159518	18.666	ug/l	98
77) Bromobenzene	12.54	156	279084	19.779	ug/l	97
78) n-propylbenzene	12.64	91	1388787	20.326	ug/l	98
79) 2-Chlorotoluene	12.71	91	751832	20.544	ug/l	99
80) 1,3,5-Trimethylbenzene	12.80	105	909628	22.041	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.35	75	42600	18.039	ug/l	91
82) 4-Chlorotoluene	12.81	91	834375	20.115	ug/l	100
83) tert-Butylbenzene	13.06	119	1002650	21.348	ug/l	97
84) 1,2,4-Trimethylbenzene	13.10	105	953929	22.443	ug/l	98
85) sec-Butylbenzene	13.22	105	1193183	20.831	ug/l	99
86) p-Isopropyltoluene	13.35	119	987630	21.360	ug/l	98
87) 1,3-Dichlorobenzene	13.31	146	528904	20.419	ug/l	95
88) 1,4-Dichlorobenzene	13.40	146	493343	19.328	ug/l	99
89) n-Butylbenzene	13.66	91	1003037	21.229	ug/l	99
90) Hexachloroethane	13.86	117	223444	19.672	ug/l	94
91) 1,2-Dichlorobenzene	13.67	146	438374	21.098	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.23	75	21339	20.967	ug/l	94

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VD1228SBSD01

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 21 17:37:47 2018
Response via : Initial Calibration

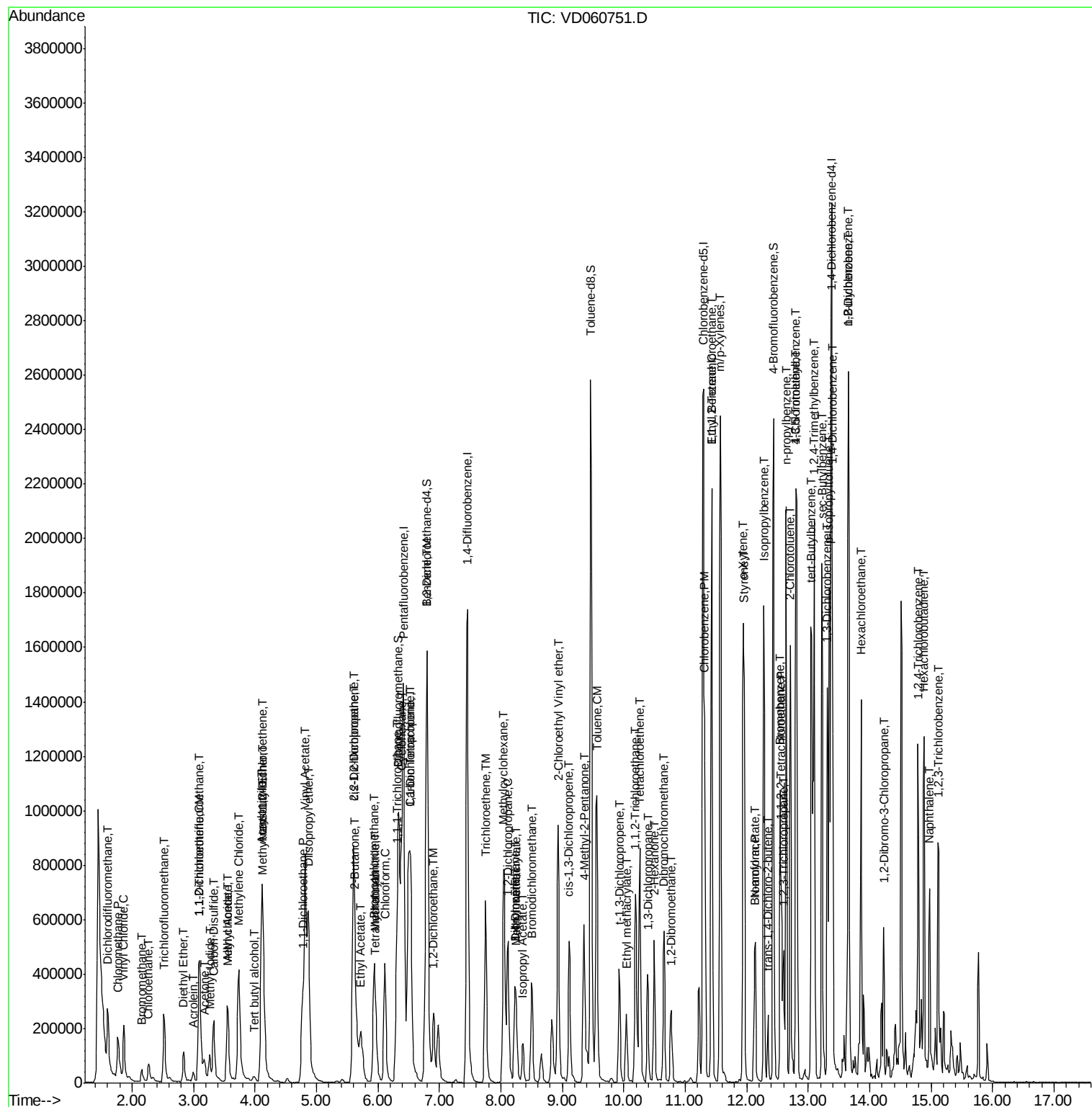
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	322225	19.489	ug/l	96
94) Hexachlorobutadiene	14.89	225	238521	19.517	ug/l	99
95) Naphthalene	14.97	128	406809	20.702	ug/l	99
96) 1,2,3-Trichlorobenzene	15.12	180	252620	19.545	ug/l	99

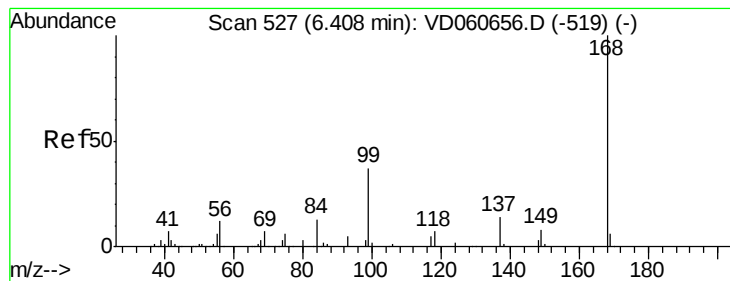
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

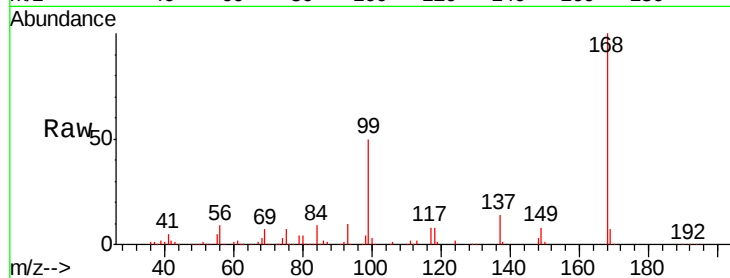
VD1228SBS01

Tgt Ion:168 Resp: 1350252

Ion Ratio Lower Upper

168 100

99 50.4 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

500000

400000

300000

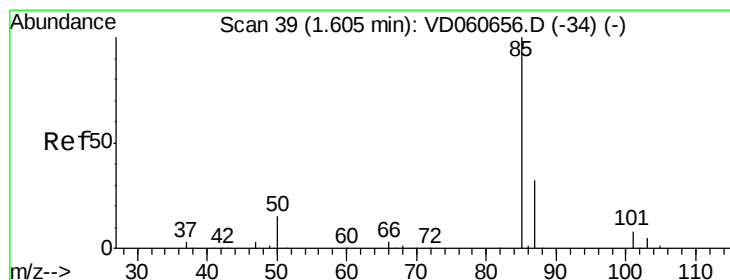
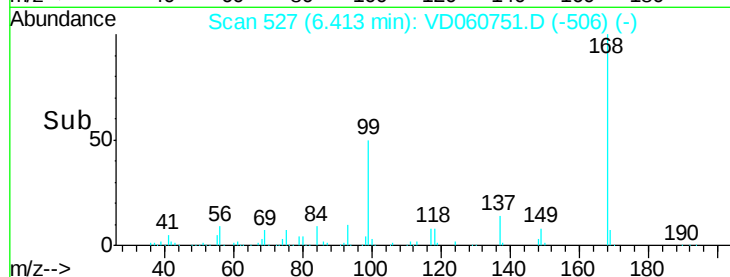
200000

100000

0

Time-->

6.30 6.40 6.50 6.60



#2

Dichlorodifluoromethane

Concen: 16.921 ug/l

RT: 1.60 min Scan# 38

Delta R.T. -0.00 min

Lab File: VD060751.D

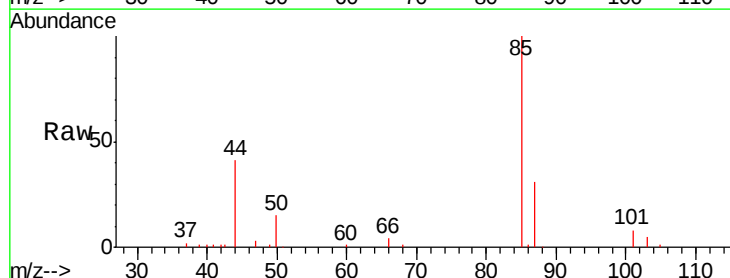
Acq: 28 Dec 2018 17:27

Tgt Ion: 85 Resp: 291931

Ion Ratio Lower Upper

85 100

87 31.5 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

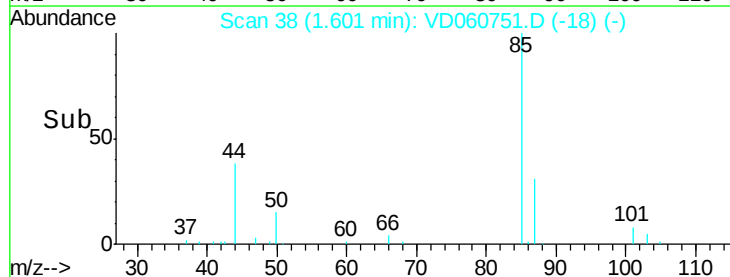
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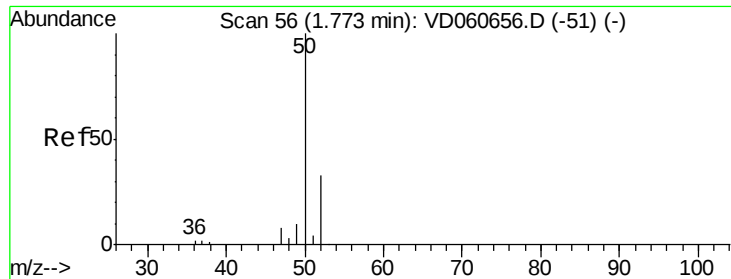
50000

0

Time-->

1.50 1.60 1.70 1.80





#3

Chloromethane

Concen: 17.940 ug/l

RT: 1.77 min Scan# 55

Delta R.T. -0.00 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

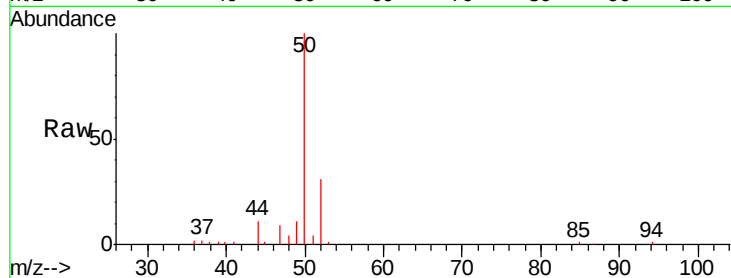
VD1228SBSD01

Tgt Ion: 50 Resp: 284854

Ion Ratio Lower Upper

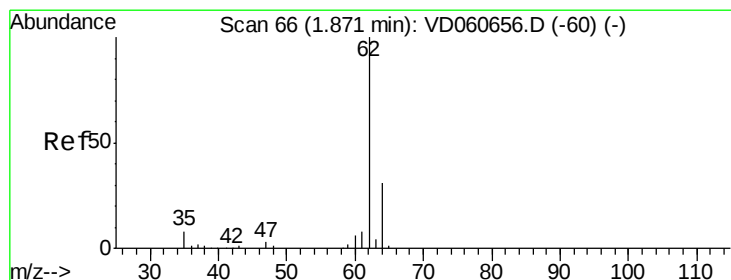
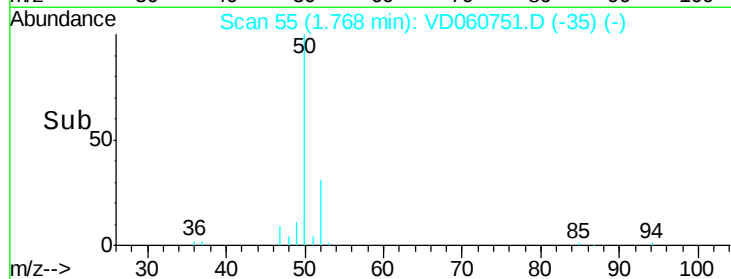
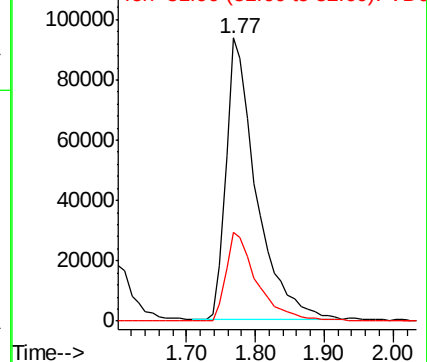
50 100

52 31.2 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.251 ug/l

RT: 1.87 min Scan# 65

Delta R.T. -0.00 min

Lab File: VD060751.D

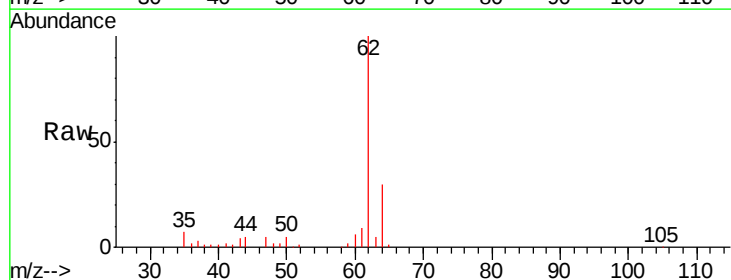
Acq: 28 Dec 2018 17:27

Tgt Ion: 62 Resp: 230072

Ion Ratio Lower Upper

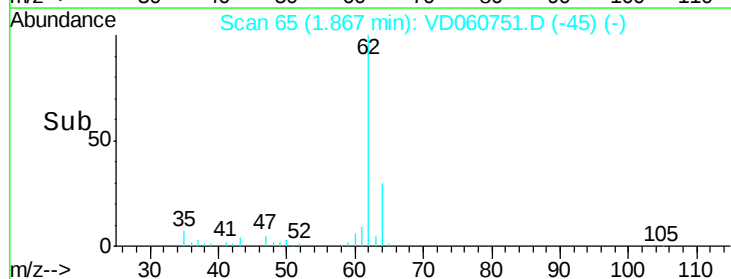
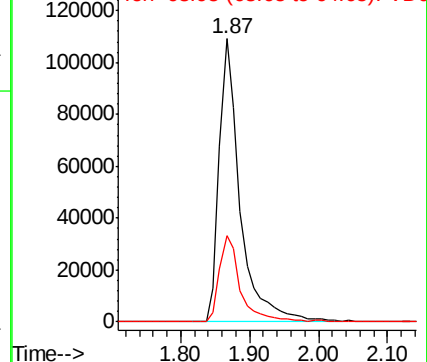
62 100

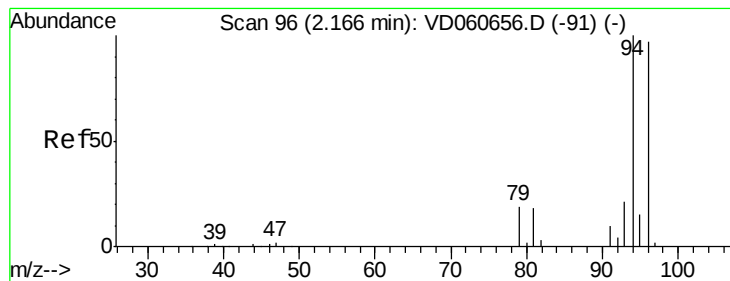
64 30.5 25.0 37.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 14.996 ug/l

RT: 2.16 min Scan# 95

Delta R.T. -0.00 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

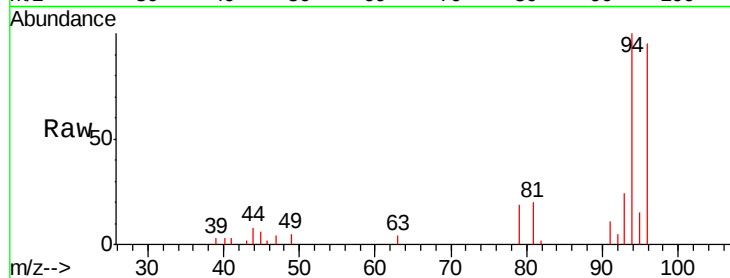
VD1228SBS01

Tgt Ion: 94 Resp: 42345

Ion Ratio Lower Upper

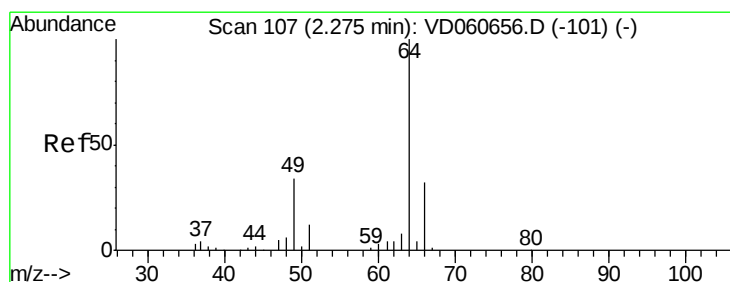
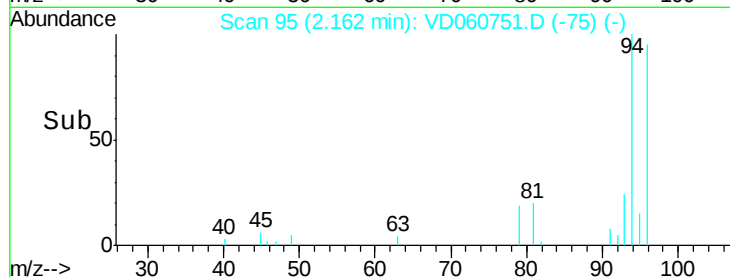
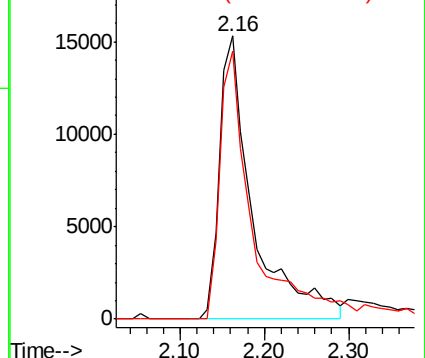
94 100

96 94.9 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 19.604 ug/l

RT: 2.27 min Scan# 106

Delta R.T. -0.00 min

Lab File: VD060751.D

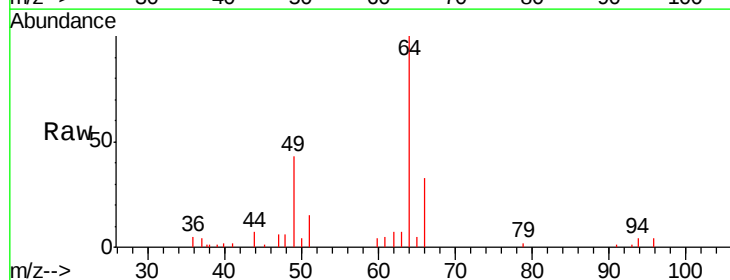
Acq: 28 Dec 2018 17:27

Tgt Ion: 64 Resp: 73751

Ion Ratio Lower Upper

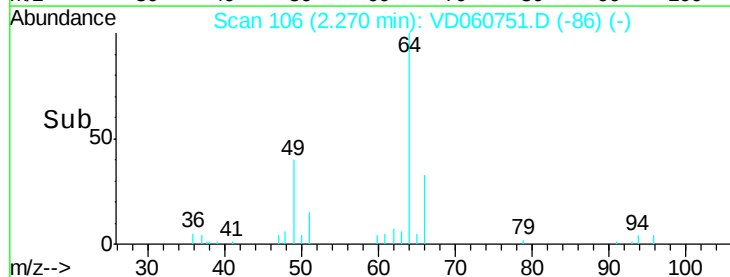
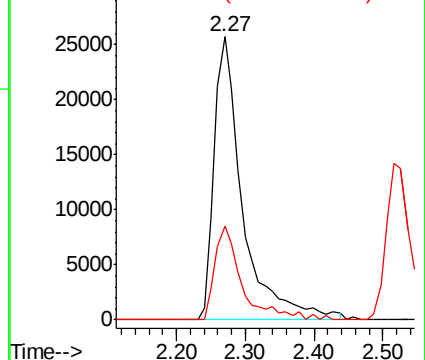
64 100

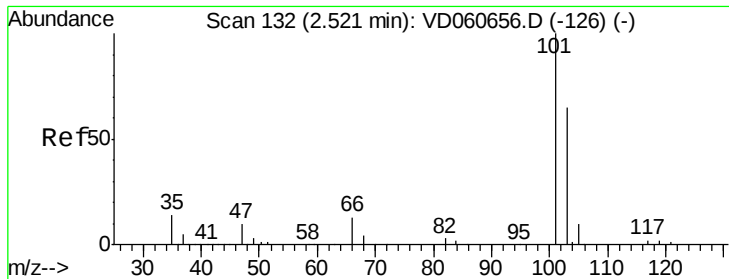
66 33.1 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



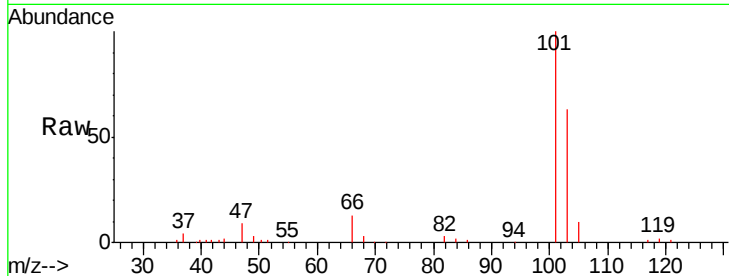


#7

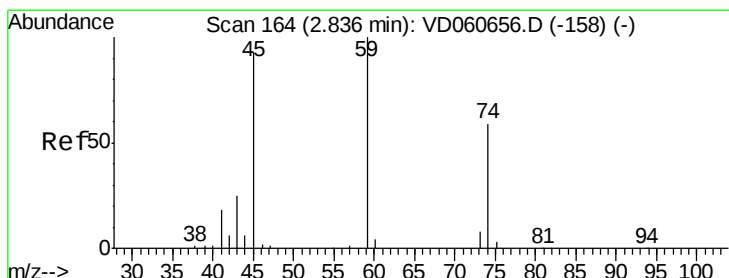
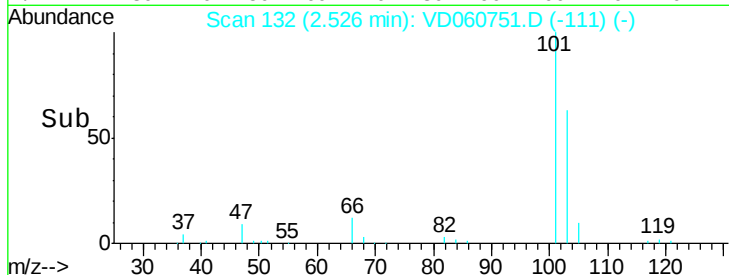
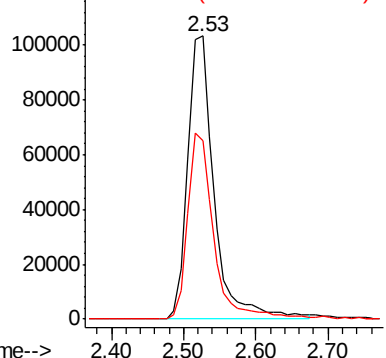
Trichlorofluoromethane
 Concen: 18.605 ug/l
 RT: 2.53 min Scan# 132
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

Tgt Ion: 101 Resp: 260874
 Ion Ratio Lower Upper
 101 100
 103 63.3 51.9 77.9



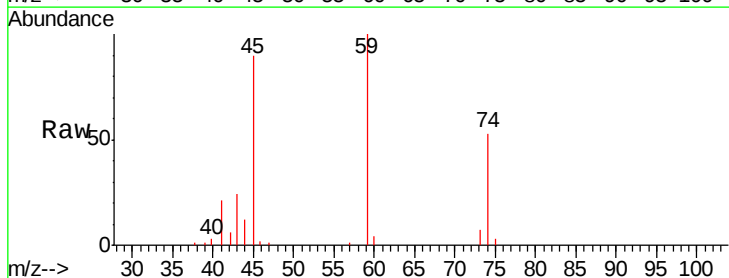
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



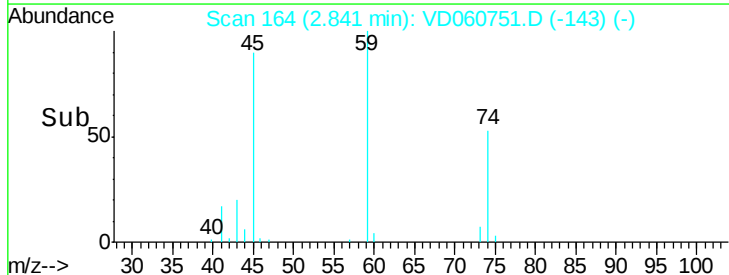
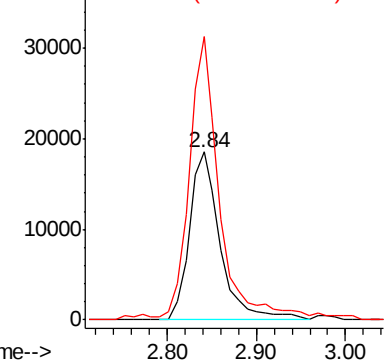
#8

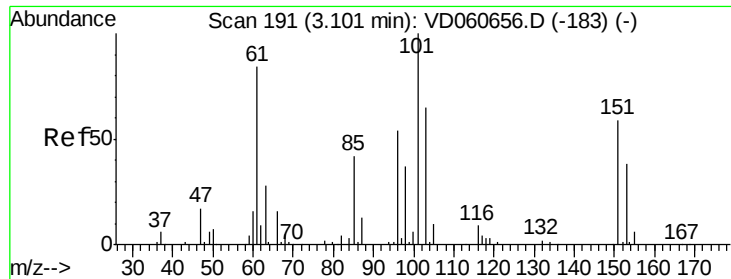
Diethyl Ether
 Concen: 19.110 ug/l
 RT: 2.84 min Scan# 164
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion: 74 Resp: 44830
 Ion Ratio Lower Upper
 74 100
 45 168.4 79.3 238.1



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: 18.740 ug/l

RT: 3.11 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBSD01

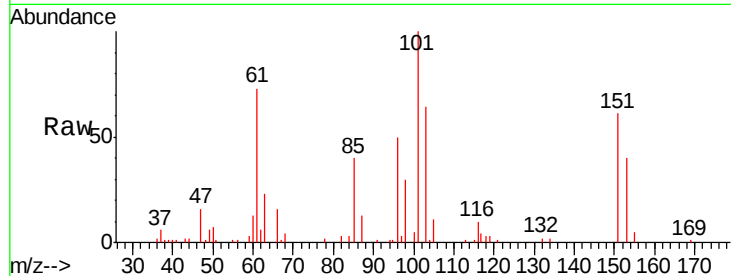
Tgt Ion:101 Resp: 170447

Ion Ratio Lower Upper

101 100

85 39.8 33.4 50.0

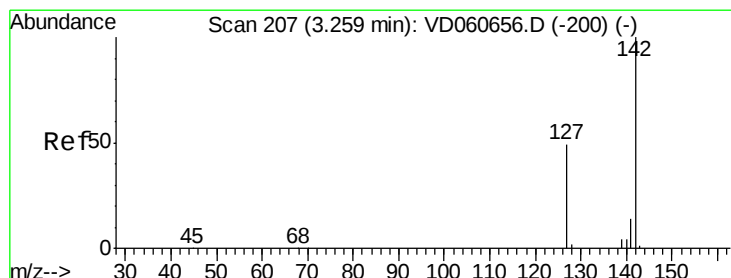
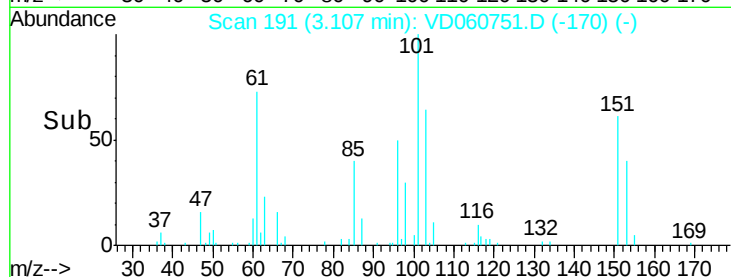
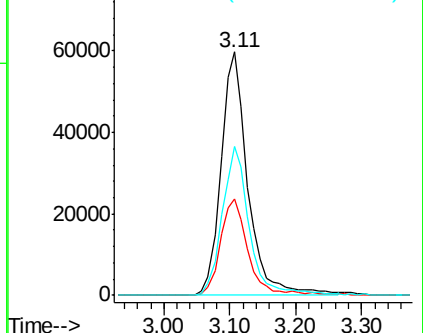
151 61.1 47.5 71.3



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: 17.179 ug/l

RT: 3.26 min Scan# 207

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

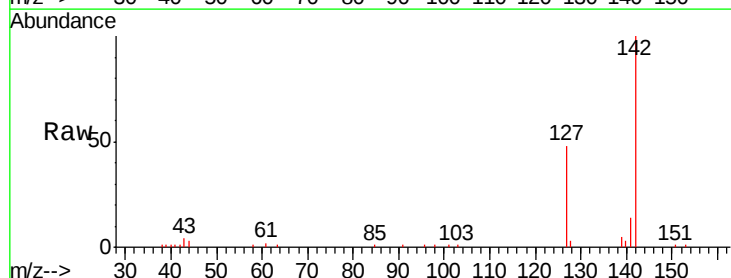
Tgt Ion:142 Resp: 164207

Ion Ratio Lower Upper

142 100

127 48.5 39.5 59.3

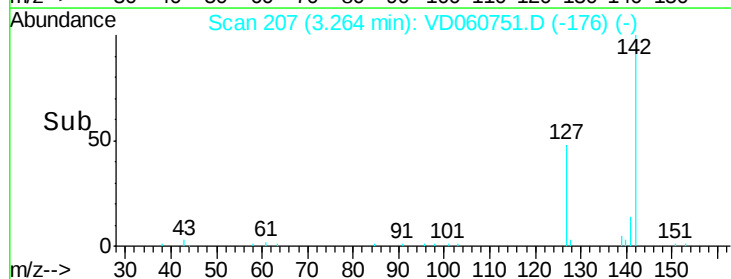
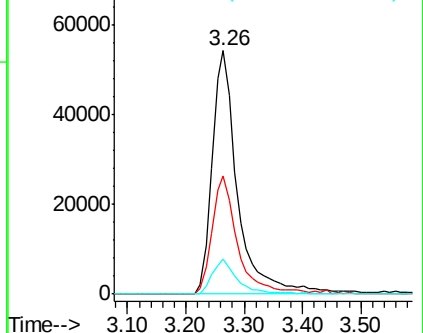
141 14.3 11.3 16.9

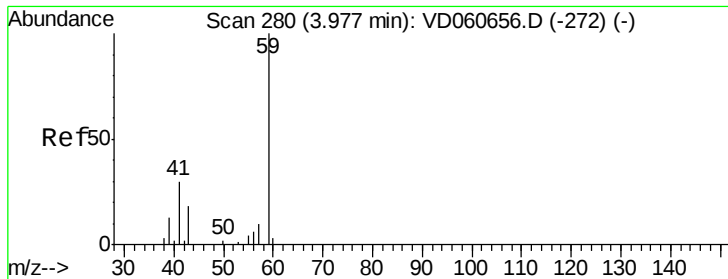


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

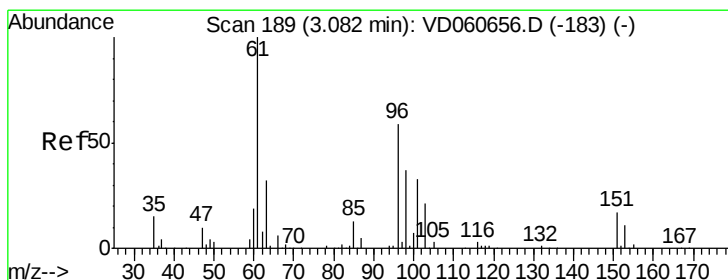
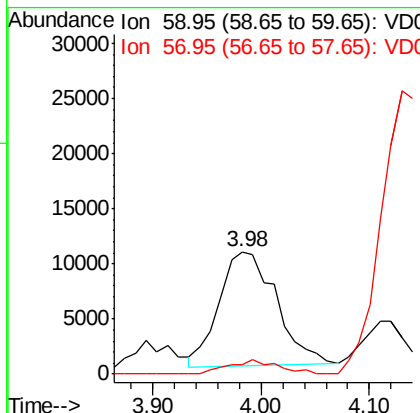
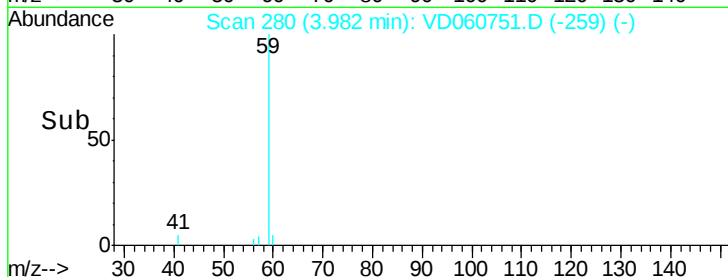
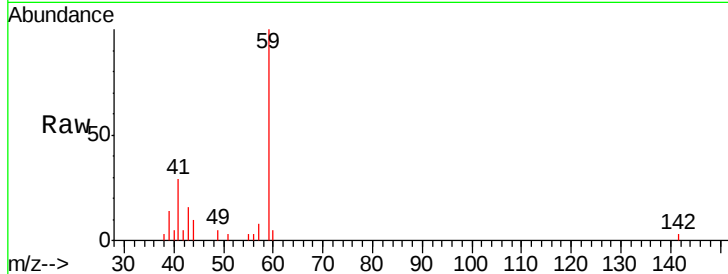




#11
Tert butyl alcohol
Concen: 97.676 ug/l
RT: 3.98 min Scan# 280
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

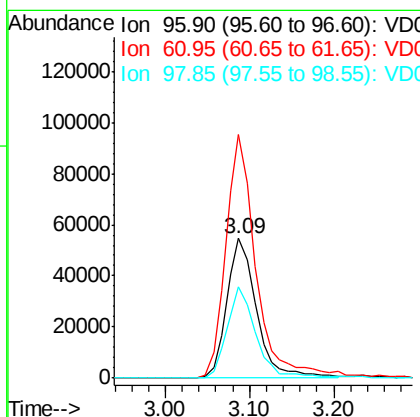
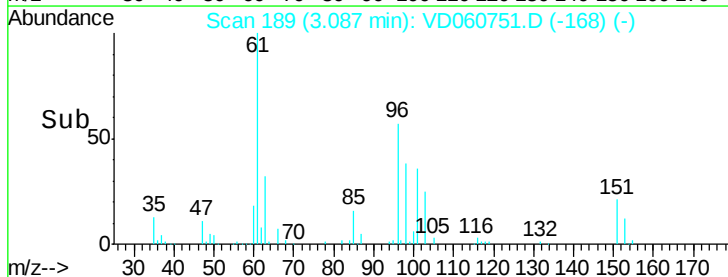
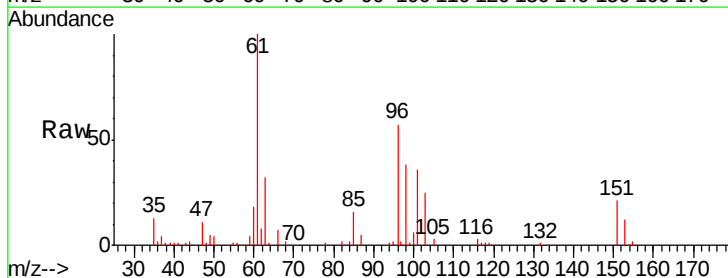
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

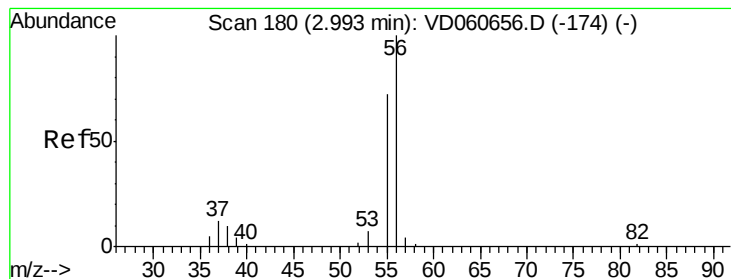
Tgt Ion: 59 Resp: 38091
Ion Ratio Lower Upper
59 100
57 7.7 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 18.019 ug/l
RT: 3.09 min Scan# 189
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 96 Resp: 134658
Ion Ratio Lower Upper
96 100
61 174.1 136.2 204.4
98 65.6 50.7 76.1





#13

Acrolein

Concen: 102.884 ug/l

RT: 3.00 min Scan# 180

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

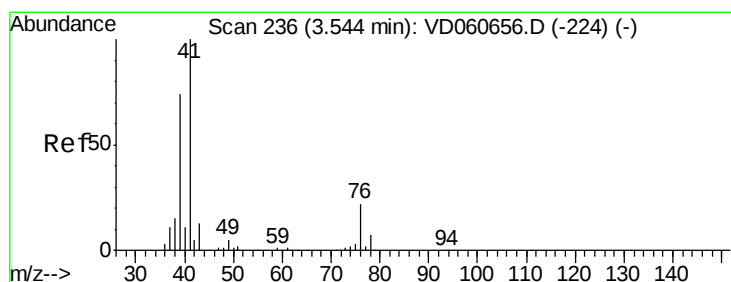
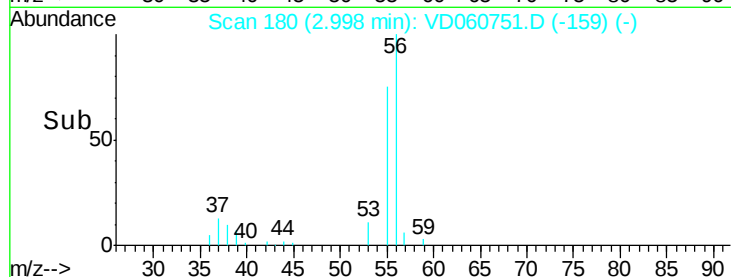
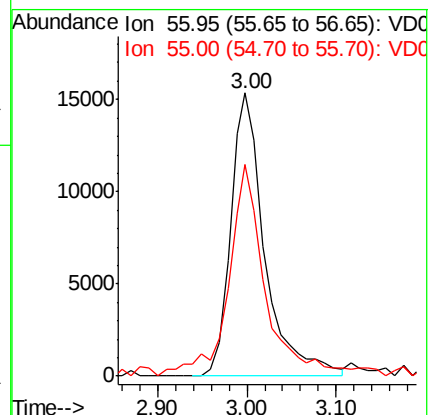
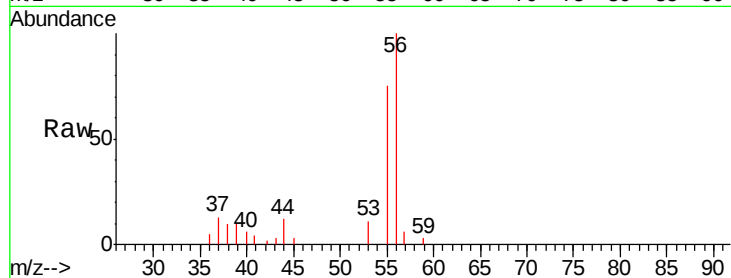
VD1228SBS01

Tgt Ion: 56 Resp: 40886

Ion Ratio Lower Upper

56 100

55 74.8 57.7 86.5



#14

Allyl chloride

Concen: 18.510 ug/l

RT: 3.55 min Scan# 236

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

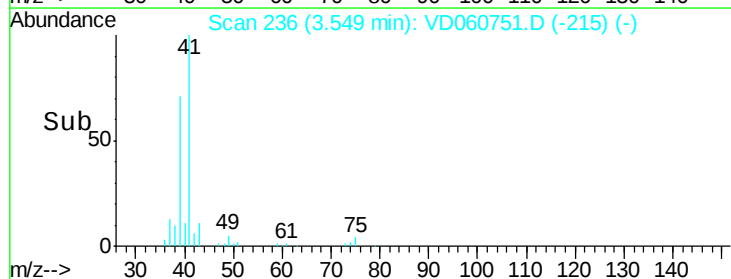
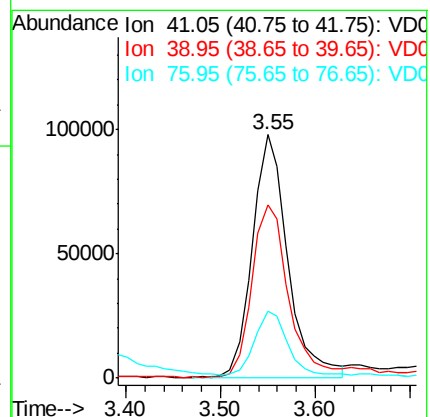
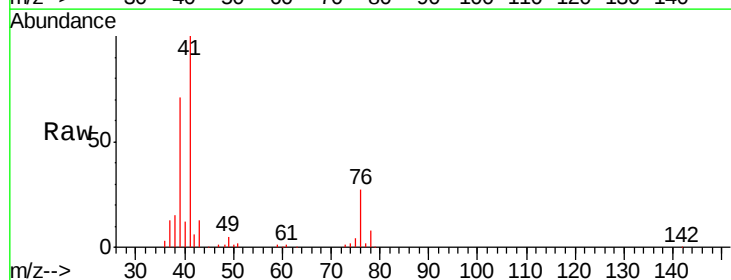
Tgt Ion: 41 Resp: 253821

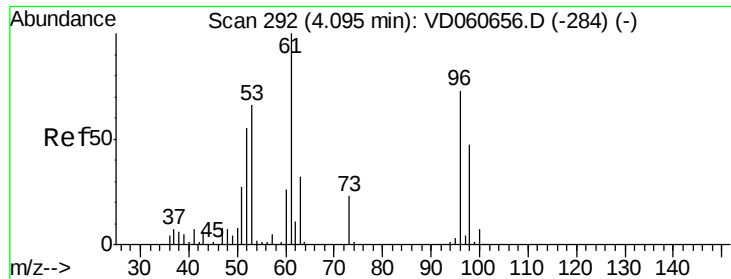
Ion Ratio Lower Upper

41 100

39 71.2 59.6 89.4

76 27.4 21.8 32.6





#15

Acrylonitrile

Concen: 99.991 ug/l

RT: 4.10 min Scan# 292

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBS01

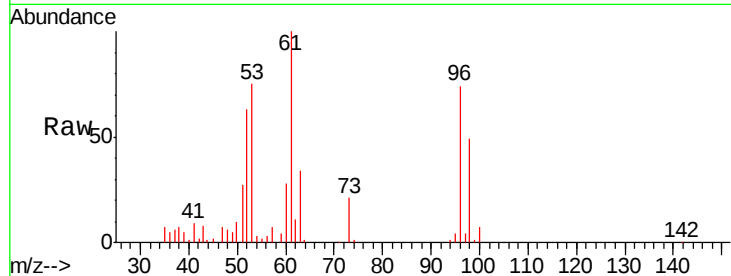
Tgt Ion: 53 Resp: 226382

Ion Ratio Lower Upper

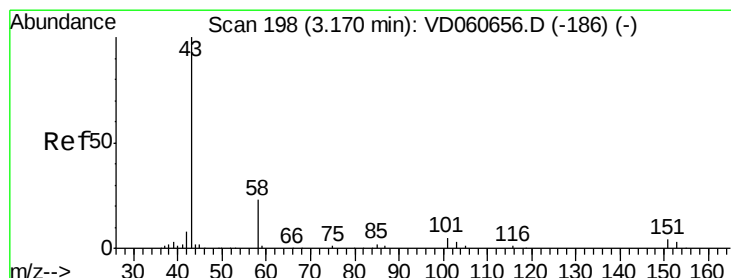
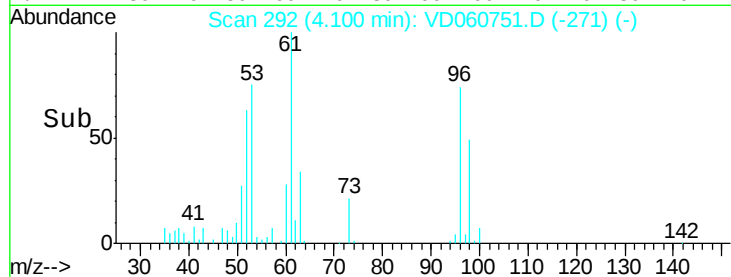
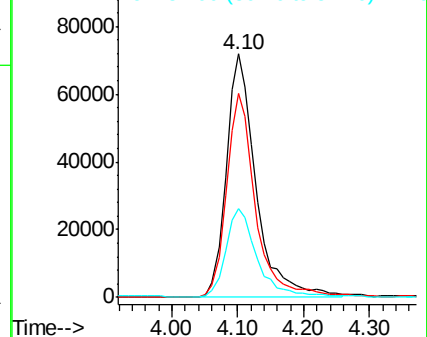
53 100

52 83.8 66.7 100.1

51 36.7 32.7 49.1



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: 89.917 ug/l

RT: 3.18 min Scan# 198

Delta R.T. 0.01 min

Lab File: VD060751.D

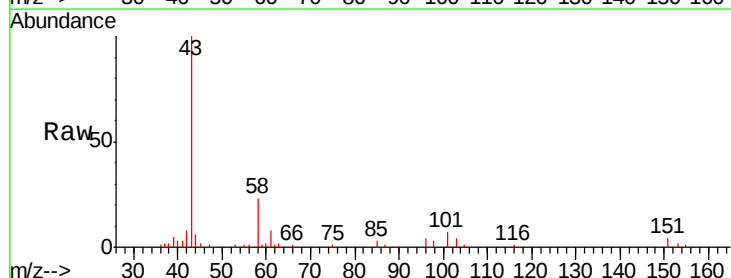
Acq: 28 Dec 2018 17:27

Tgt Ion: 43 Resp: 146526

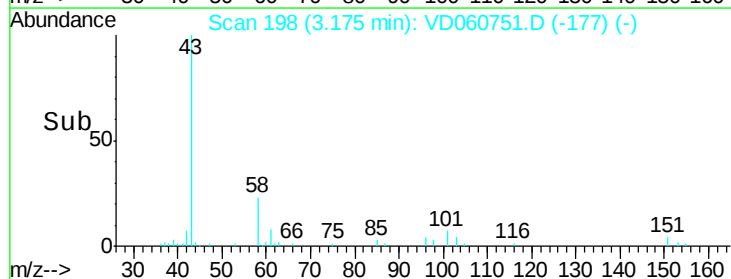
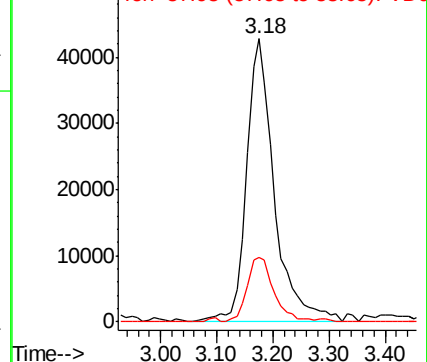
Ion Ratio Lower Upper

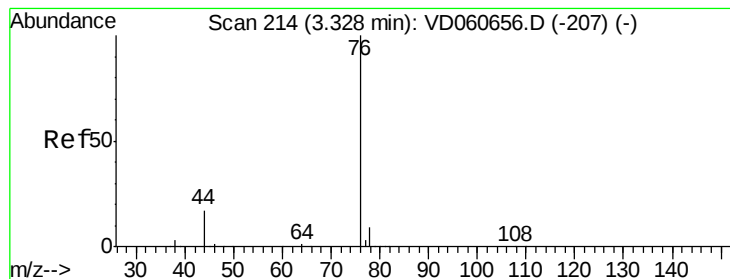
43 100

58 22.6 18.2 27.2



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





#17

Carbon Disulfide

Concen: 17.260 ug/l

RT: 3.33 min Scan# 214

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

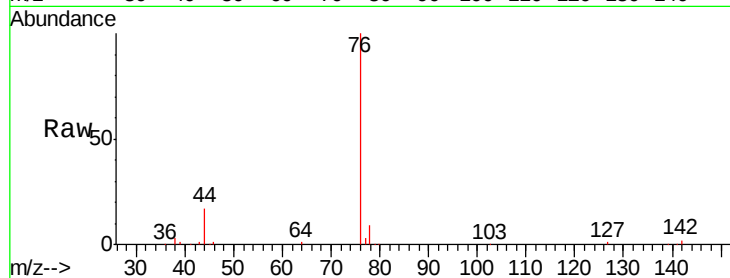
VD1228SBS01

Tgt Ion: 76 Resp: 411952

Ion Ratio Lower Upper

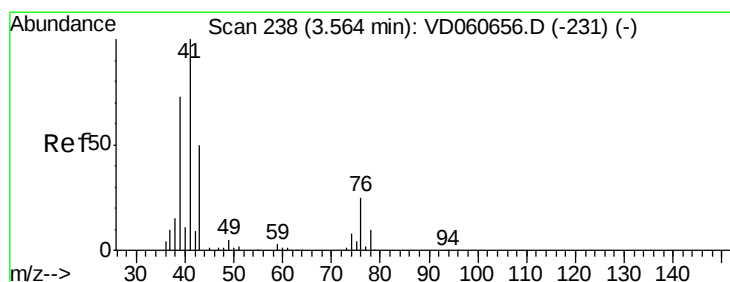
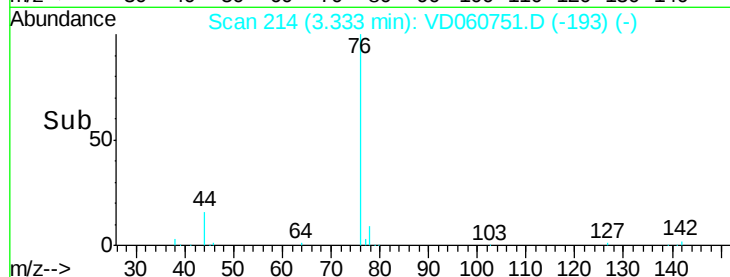
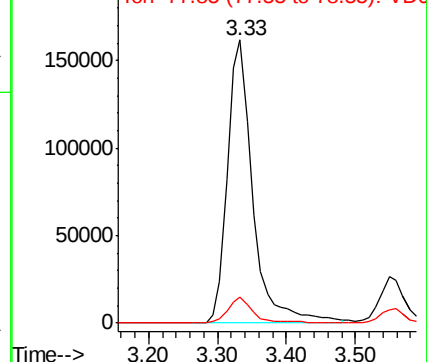
76 100

78 9.2 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 17.858 ug/l

RT: 3.57 min Scan# 238

Delta R.T. 0.01 min

Lab File: VD060751.D

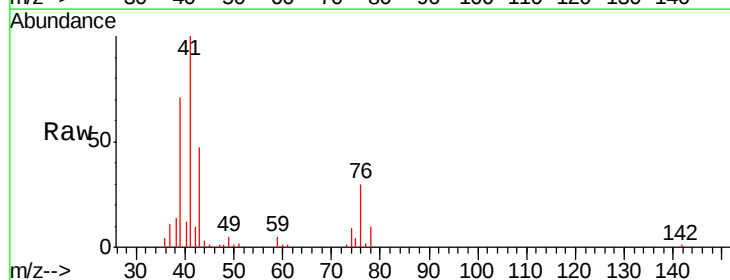
Acq: 28 Dec 2018 17:27

Tgt Ion: 43 Resp: 72121

Ion Ratio Lower Upper

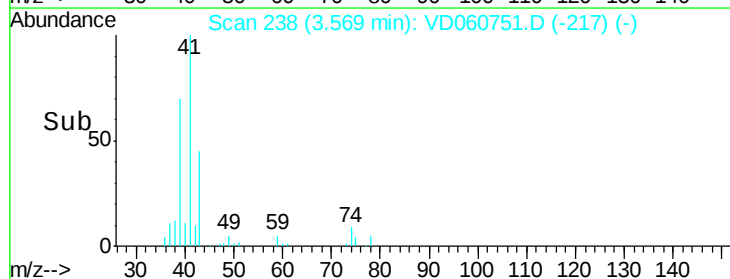
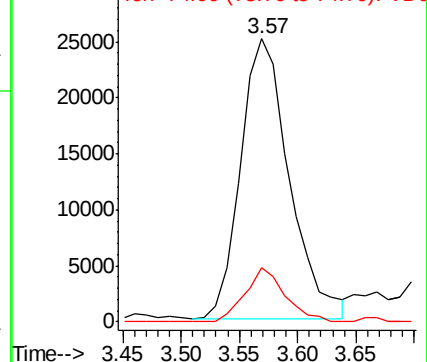
43 100

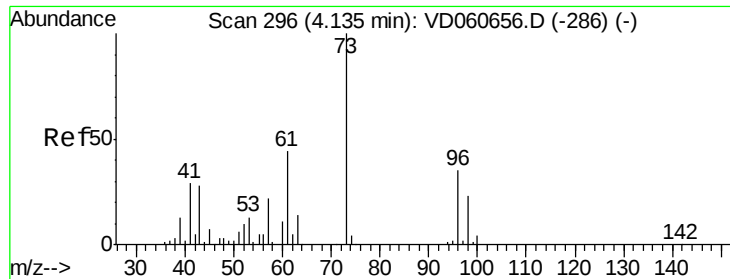
74 19.3 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

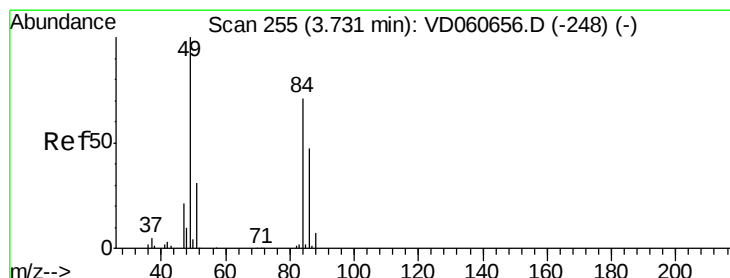
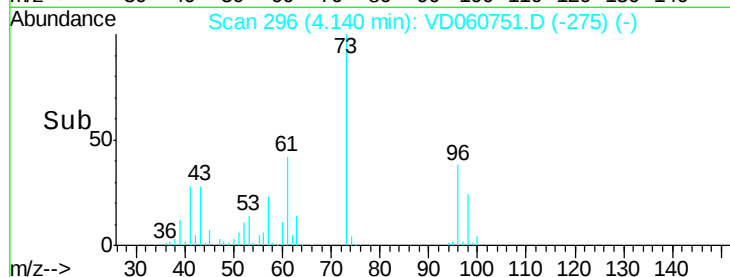
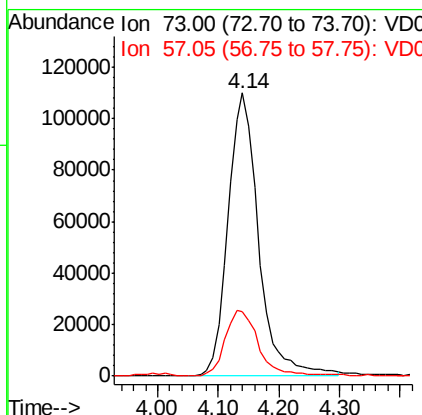
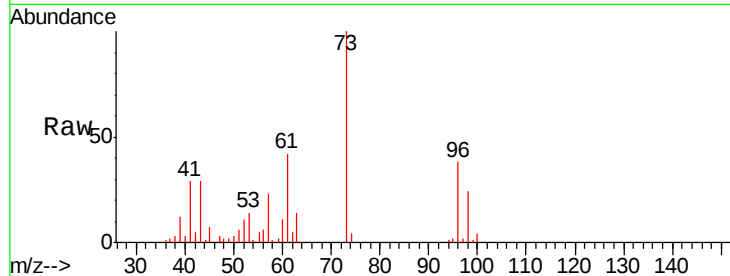




#19
Methyl tert-butyl Ether
Concen: 20.391 ug/l
RT: 4.14 min Scan# 296
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

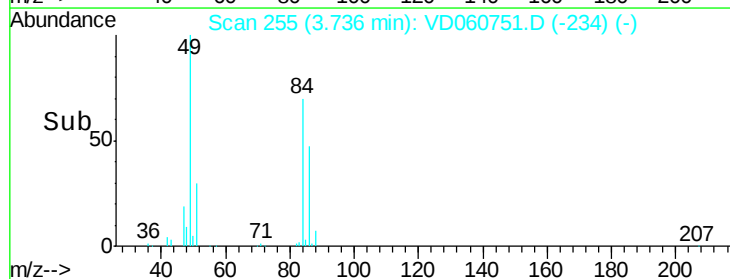
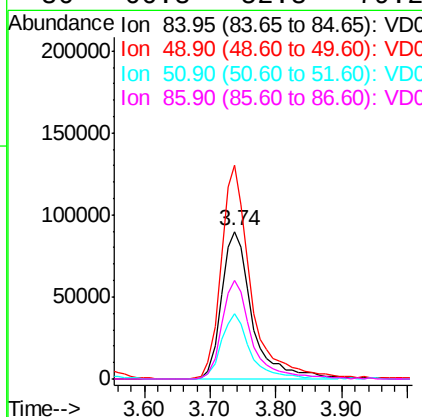
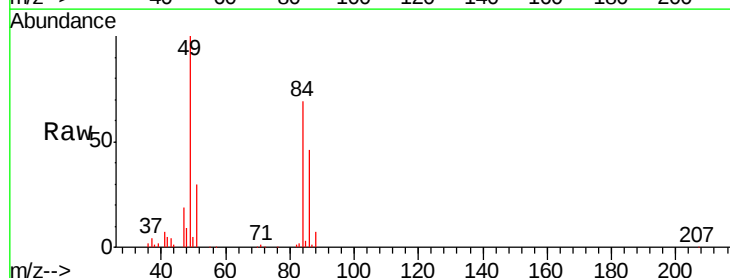
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBS01

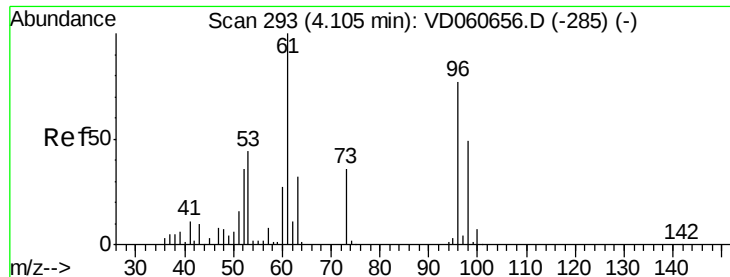
Tgt Ion: 73 Resp: 386621
Ion Ratio Lower Upper
73 100
57 22.7 17.6 26.4



#20
Methylene Chloride
Concen: 17.221 ug/l
RT: 3.74 min Scan# 255
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 84 Resp: 291430
Ion Ratio Lower Upper
84 100
49 144.8 113.6 170.4
51 43.9 34.7 52.1
86 66.8 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 19.475 ug/l

RT: 4.12 min Scan# 294

Delta R.T. 0.02 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBS01

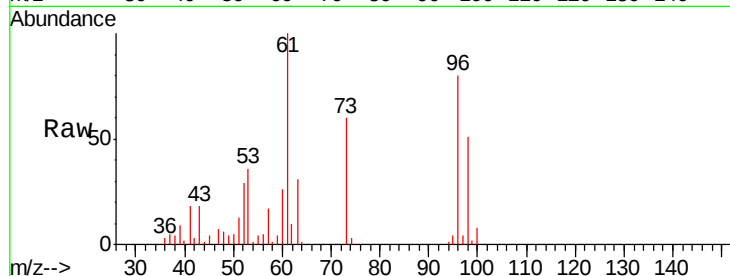
Tgt Ion: 96 Resp: 298066

Ion Ratio Lower Upper

96 100

61 125.2 104.2 156.2

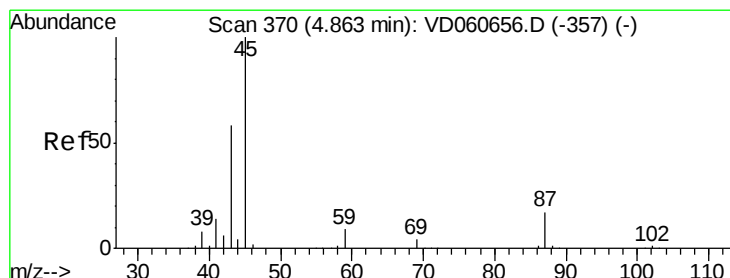
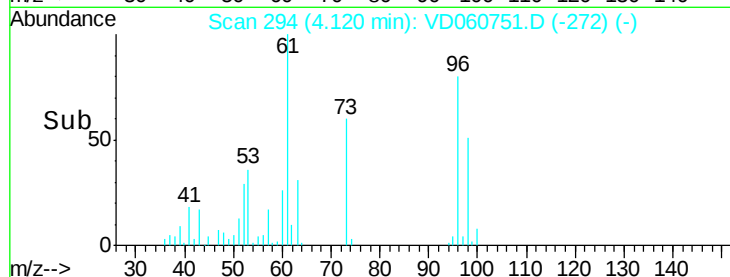
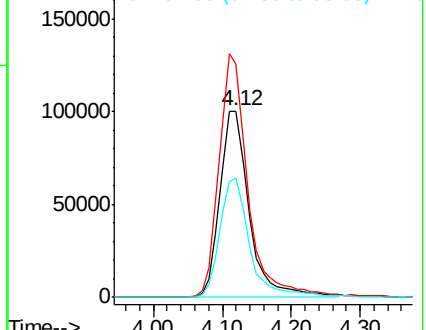
98 64.2 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 19.320 ug/l

RT: 4.87 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Tgt Ion: 45 Resp: 899533

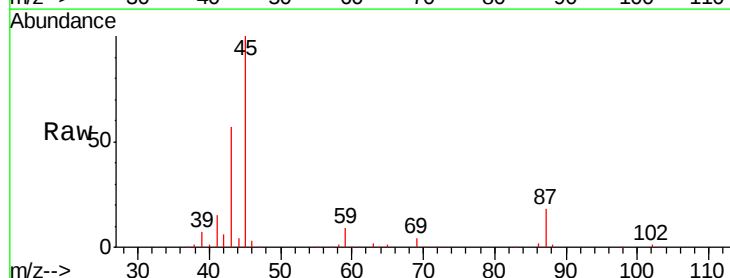
Ion Ratio Lower Upper

45 100

43 56.5 46.1 69.1

87 17.9 13.7 20.5

59 9.0 7.4 11.0

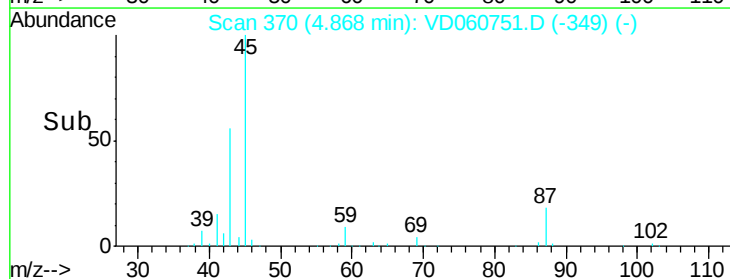
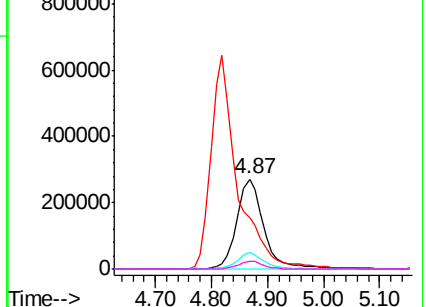


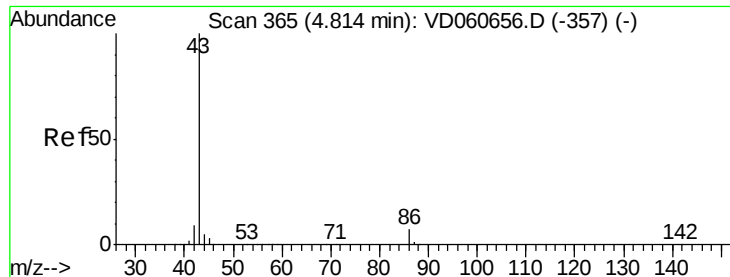
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 94.290 ug/l

RT: 4.82 min Scan# 365

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

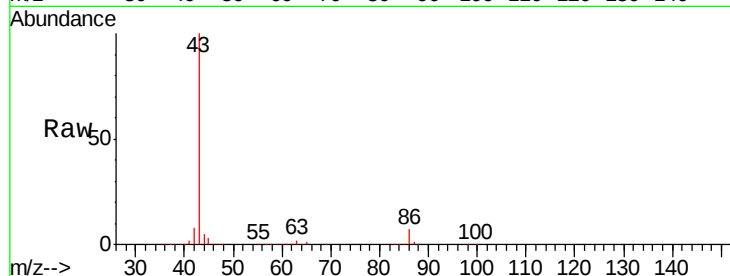
VD1228SBSD01

Tgt Ion: 43 Resp: 2123940

Ion Ratio Lower Upper

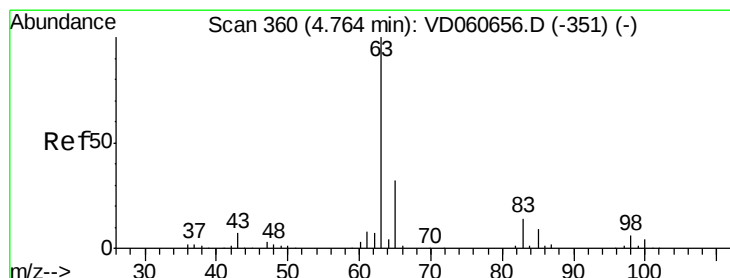
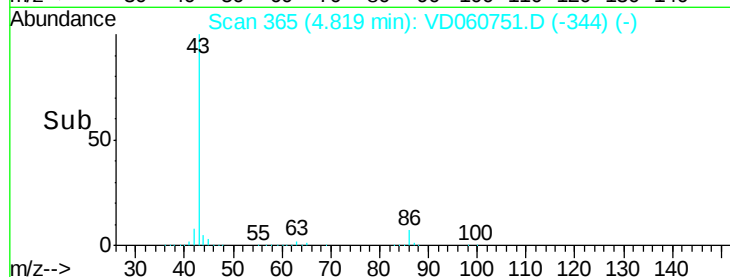
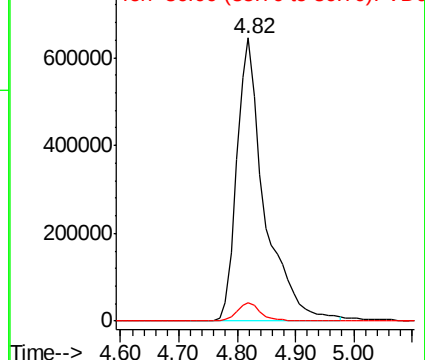
43 100

86 6.6 5.6 8.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 18.842 ug/l

RT: 4.77 min Scan# 360

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

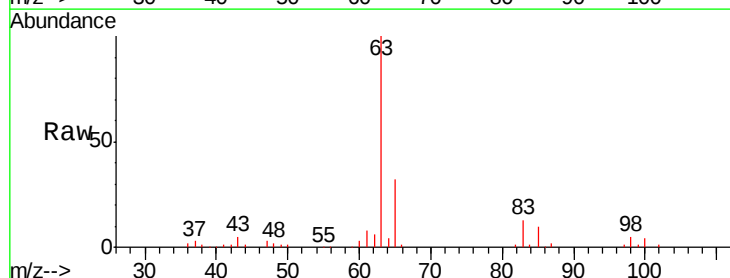
Tgt Ion: 63 Resp: 461445

Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.7

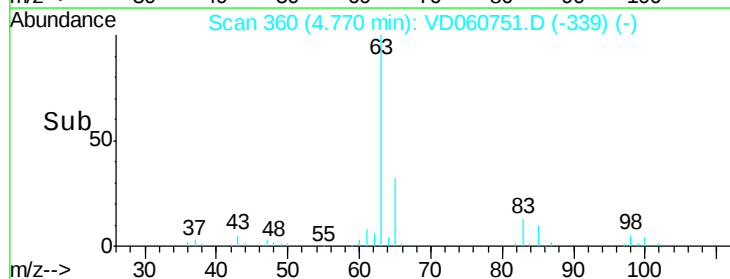
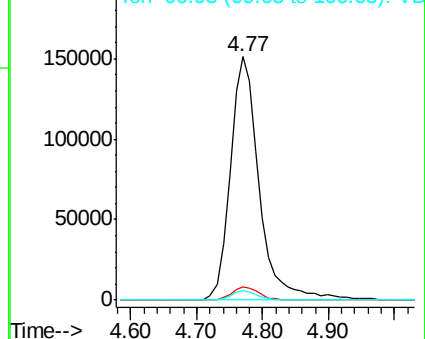
100 3.6 2.0 5.8

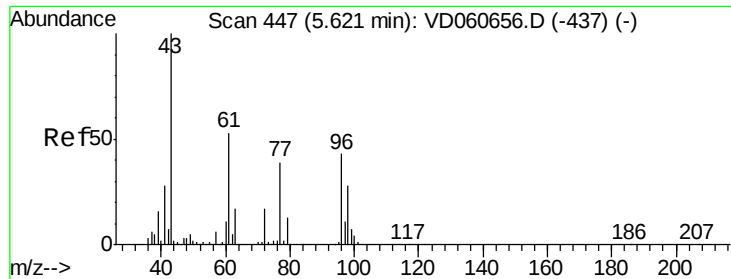


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 93.857 ug/l

RT: 5.64 min Scan# 448

Delta R.T. 0.02 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

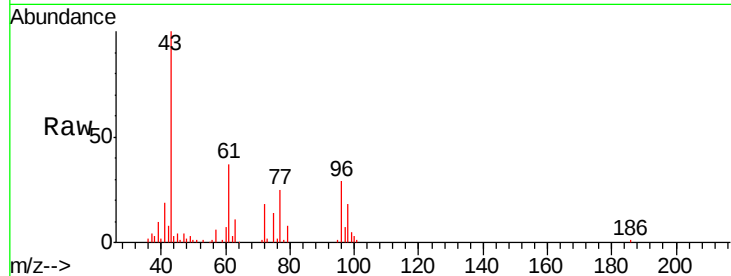
VD1228SBS01

Tgt Ion: 43 Resp: 292672

Ion Ratio Lower Upper

43 100

72 17.8 13.7 20.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

5.64

120000

100000

80000

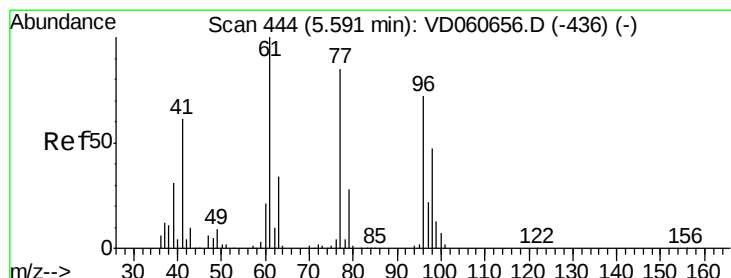
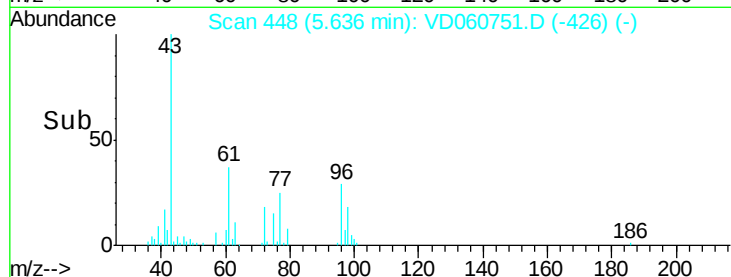
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 18.307 ug/l

RT: 5.60 min Scan# 444

Delta R.T. 0.01 min

Lab File: VD060751.D

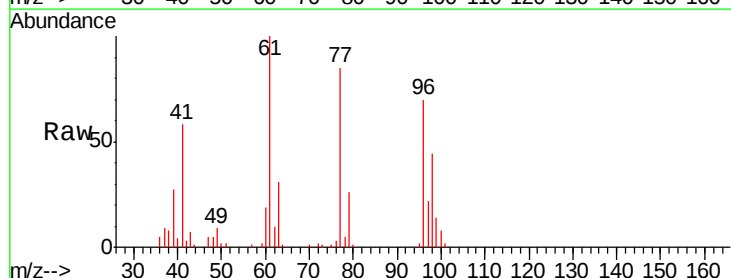
Acq: 28 Dec 2018 17:27

Tgt Ion: 77 Resp: 353894

Ion Ratio Lower Upper

77 100

97 26.2 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

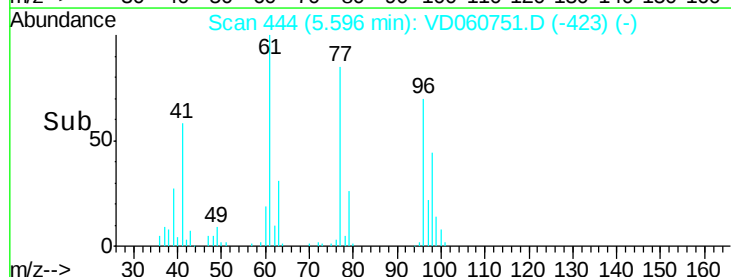
5.60

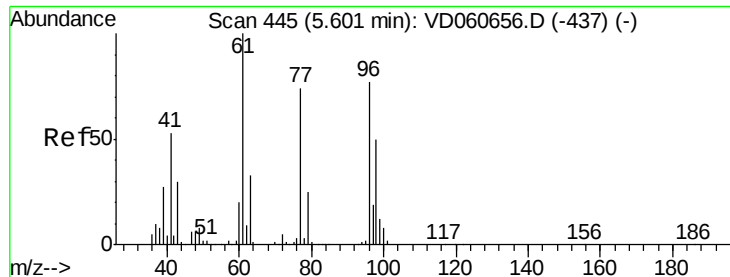
100000

50000

0

Time-->



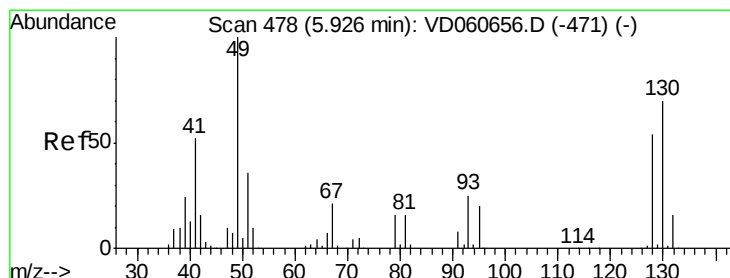
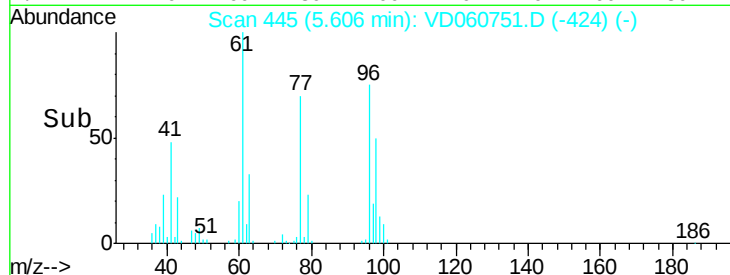
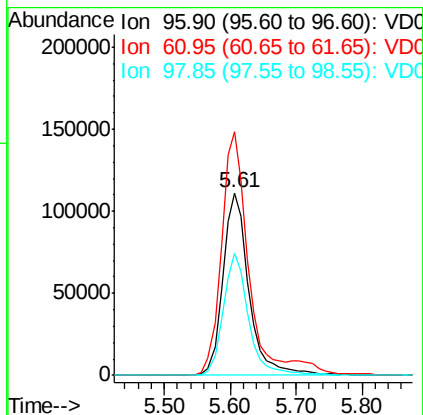
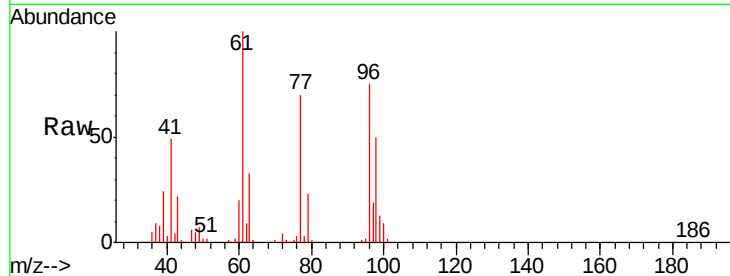


#27

cis-1,2-Dichloroethene
Concen: 19.684 ug/l
RT: 5.61 min Scan# 445
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

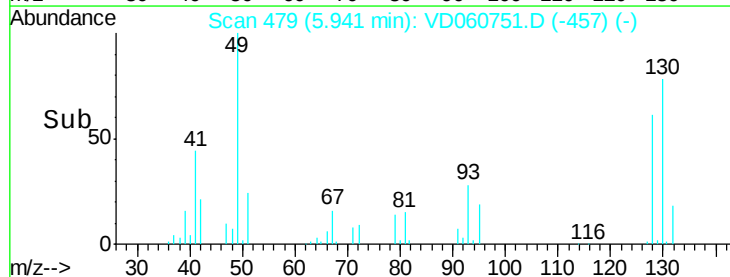
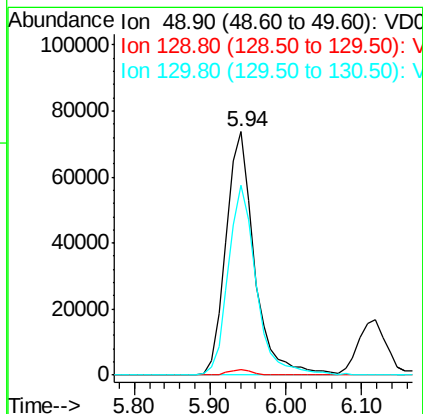
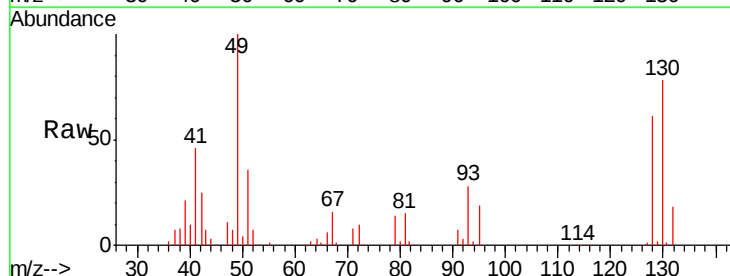
Tgt Ion: 96 Resp: 305828
Ion Ratio Lower Upper
96 100
61 133.7 0.0 259.4
98 66.9 0.0 130.0

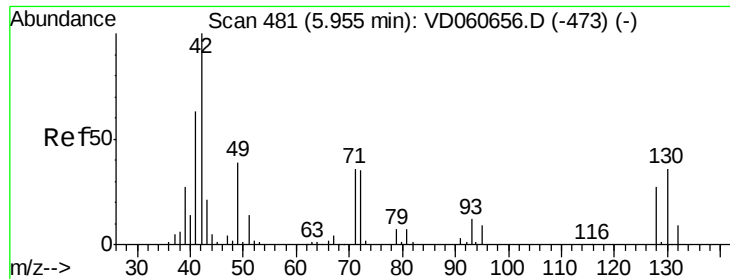


#28

Bromochloromethane
Concen: 18.487 ug/l
RT: 5.94 min Scan# 479
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 49 Resp: 191266
Ion Ratio Lower Upper
49 100
129 2.0 0.0 3.4
130 77.7 56.2 84.2

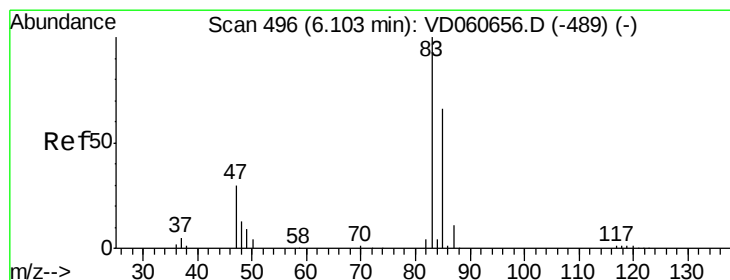
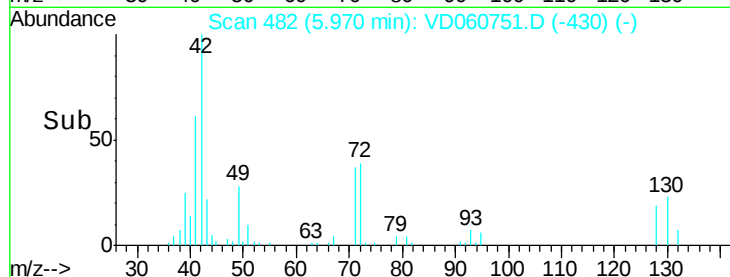
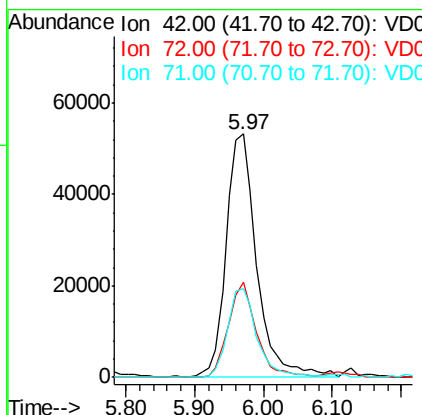
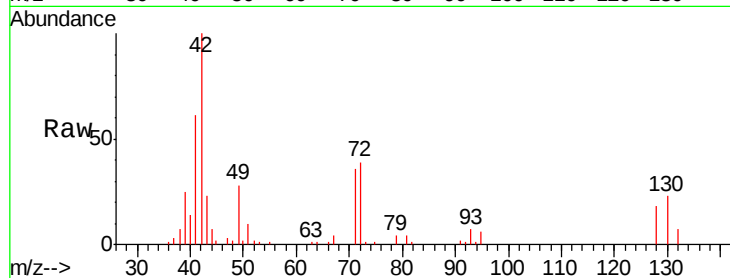




#29
Tetrahydrofuran
Concen: 92.938 ug/l
RT: 5.97 min Scan# 482
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

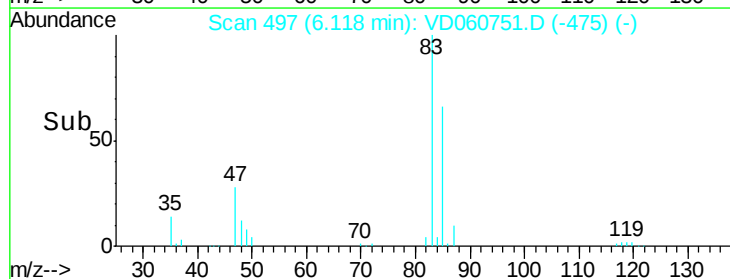
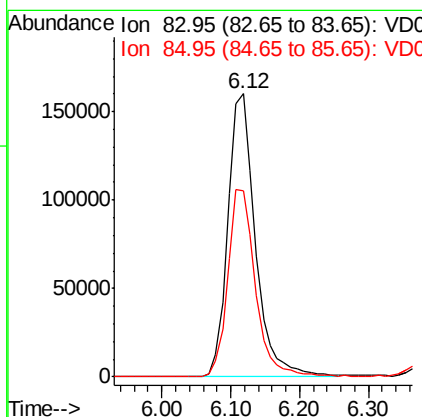
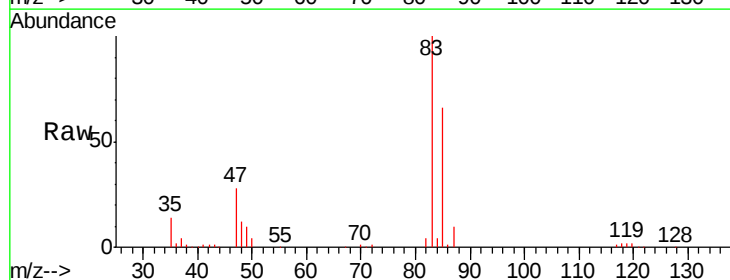
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

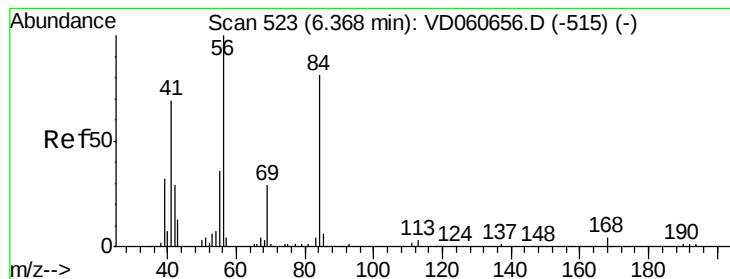
Tgt Ion: 42 Resp: 164292
Ion Ratio Lower Upper
42 100
72 35.8 28.0 42.0
71 34.8 27.0 40.6



#30
Chloroform
Concen: 17.998 ug/l
RT: 6.12 min Scan# 497
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 83 Resp: 443519
Ion Ratio Lower Upper
83 100
85 65.6 53.0 79.6





#31

Cyclohexane

Concen: 18.935 ug/l

RT: 6.38 min Scan# 524

Delta R.T. 0.02 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBS01

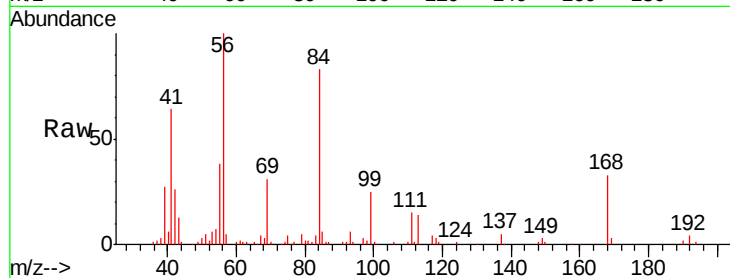
Tgt Ion: 56 Resp: 446244

Ion Ratio Lower Upper

56 100

69 31.0 23.6 35.4

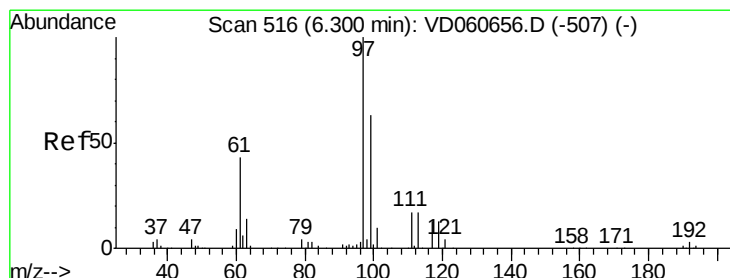
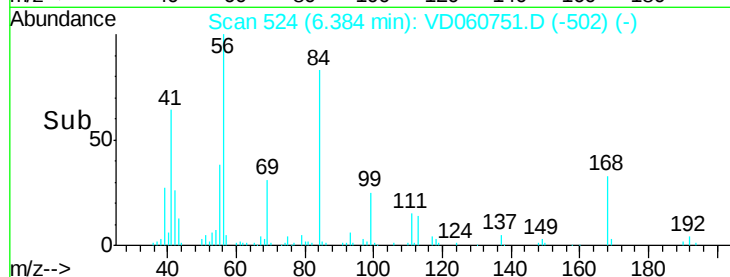
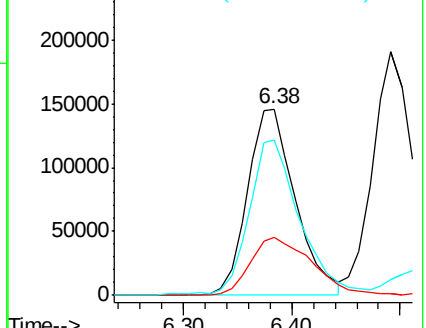
84 83.2 65.8 98.6



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 18.646 ug/l

RT: 6.30 min Scan# 516

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

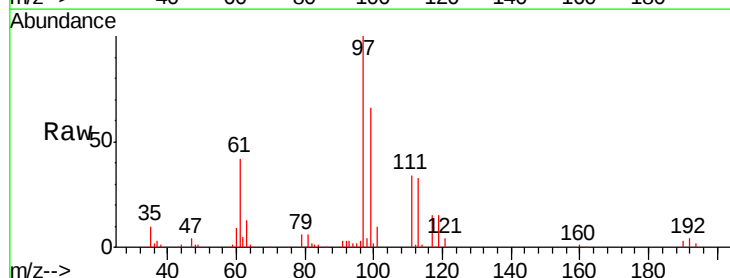
Tgt Ion: 97 Resp: 380150

Ion Ratio Lower Upper

97 100

99 66.0 50.5 75.7

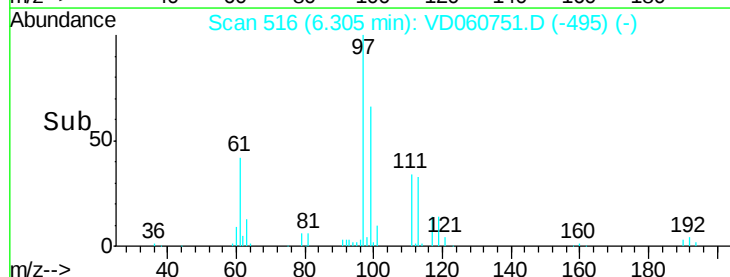
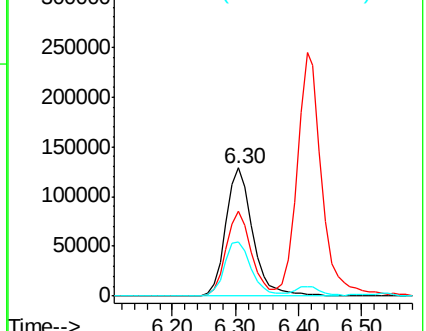
61 42.1 34.6 51.8

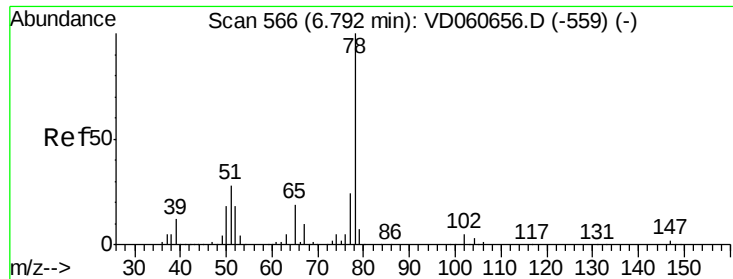


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC

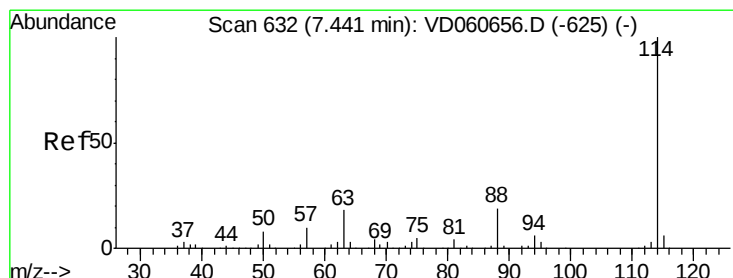
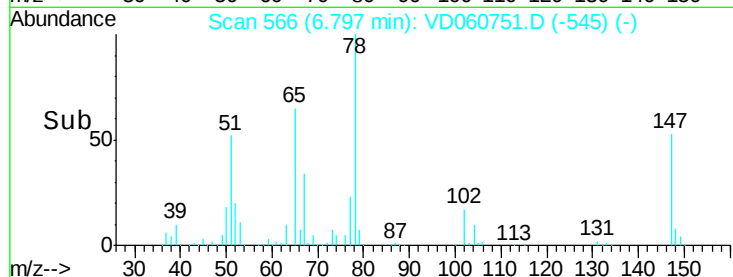
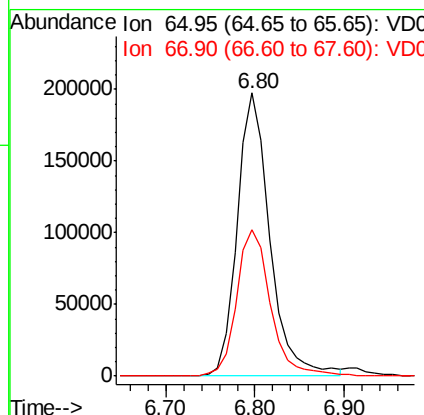
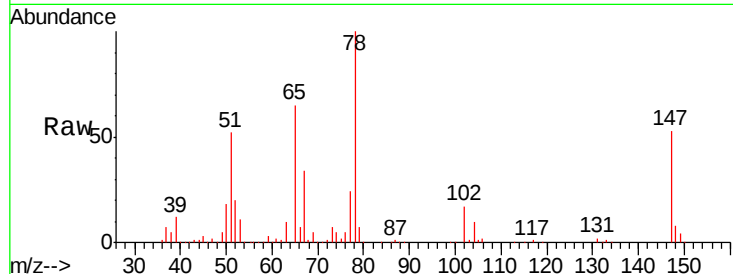




#33
 1,2-Dichloroethane-d4
 Concen: 18.646 ug/l
 RT: 6.80 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

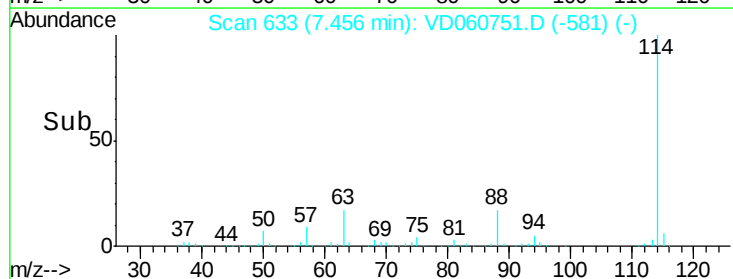
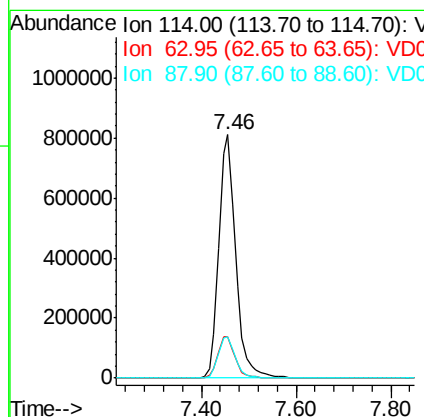
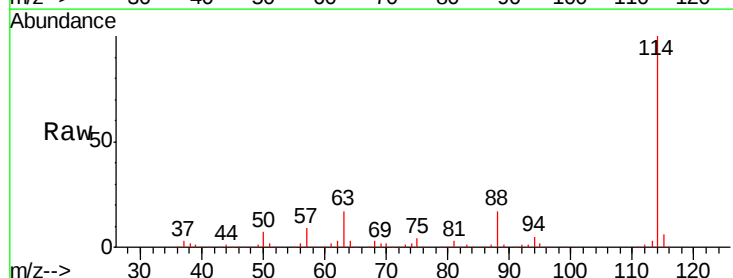
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

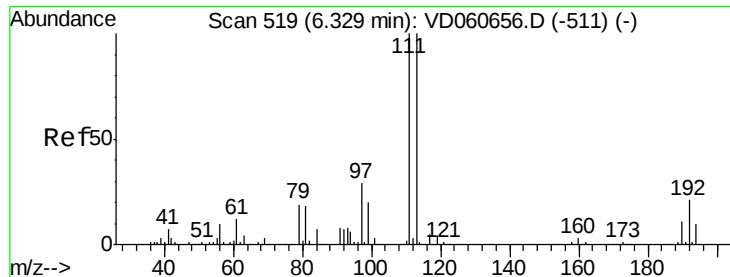
Tgt Ion: 65 Resp: 503274
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.46 min Scan# 633
 Delta R.T. 0.02 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion: 114 Resp: 2007418
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 36.2
 88 17.0 0.0 37.0

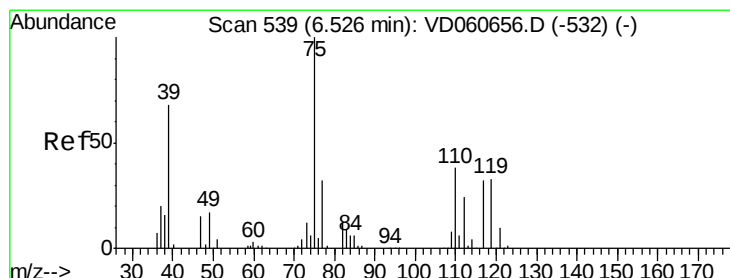
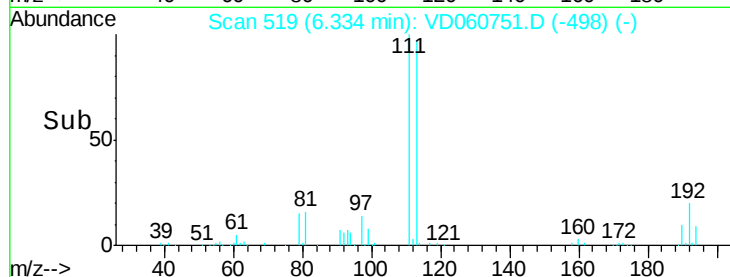
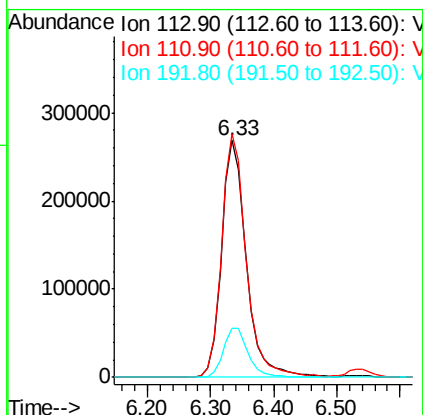
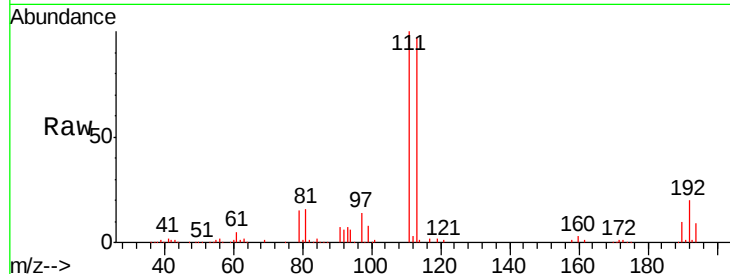




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 519
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

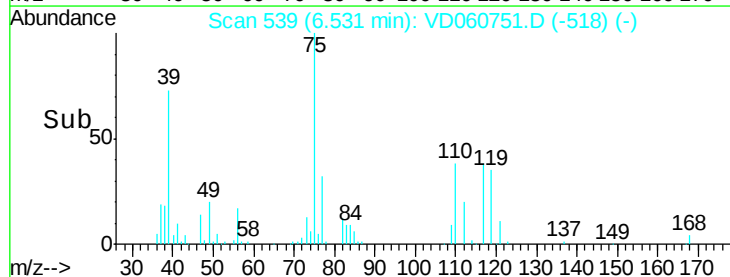
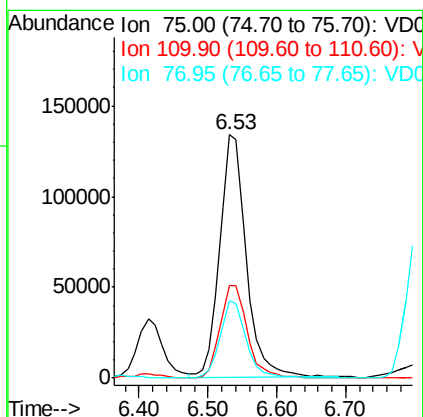
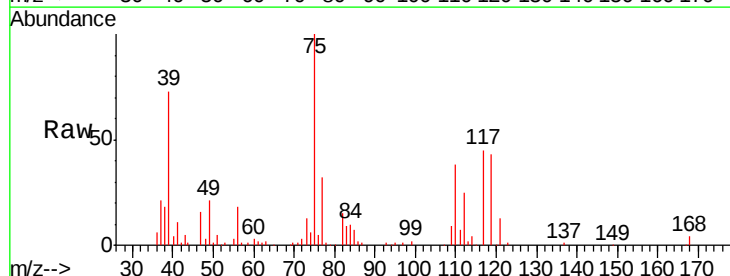
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

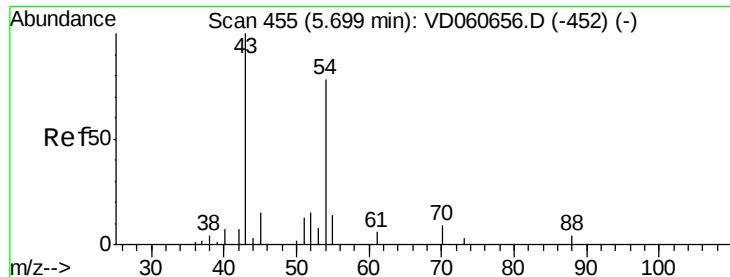
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.0	120.0
192	20.6	16.6	25.0



#36
 1,1-Dichloropropene
 Concen: 17.134 ug/l
 RT: 6.53 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.9	18.9	56.7
77	31.6	25.4	38.0

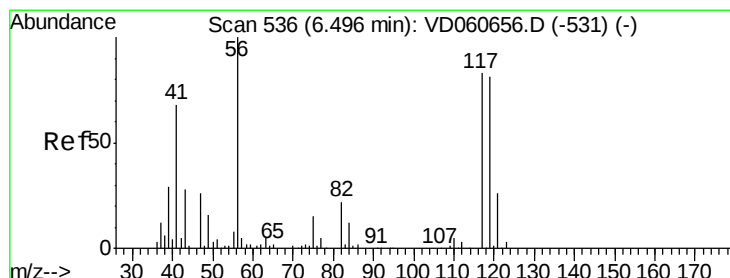
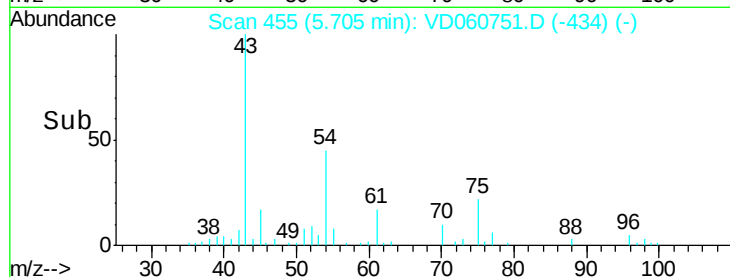
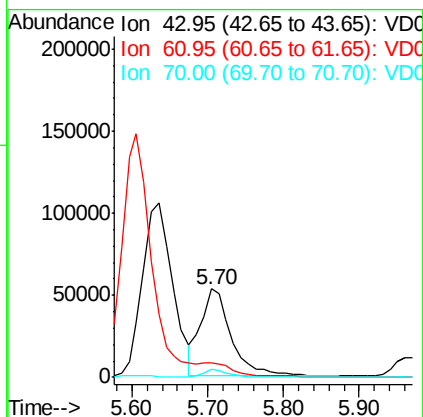
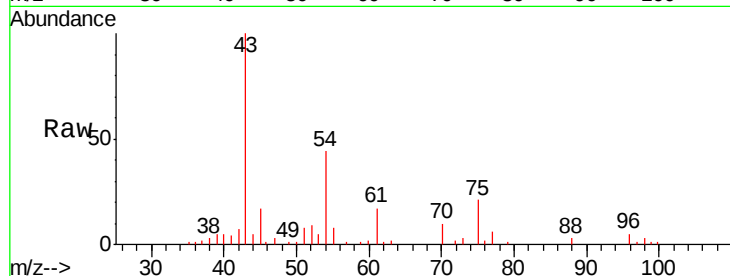




#37
Ethyl Acetate
Concen: 17.466 ug/l
RT: 5.70 min Scan# 455
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

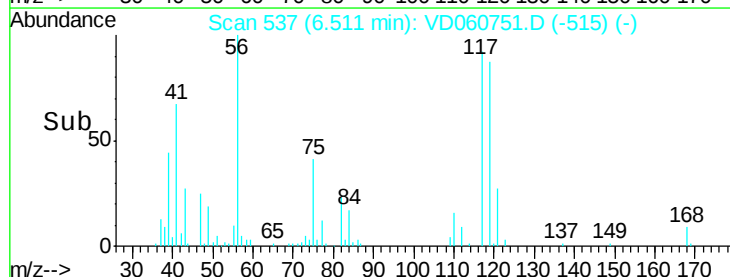
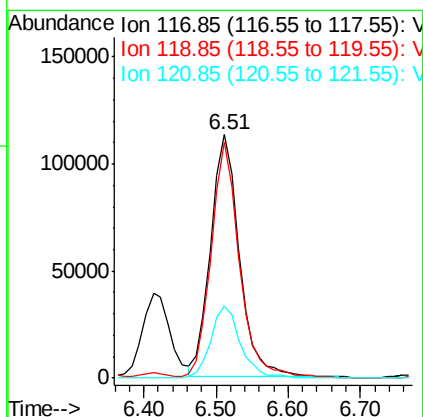
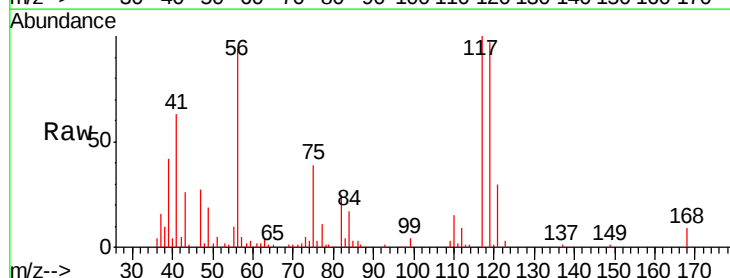
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

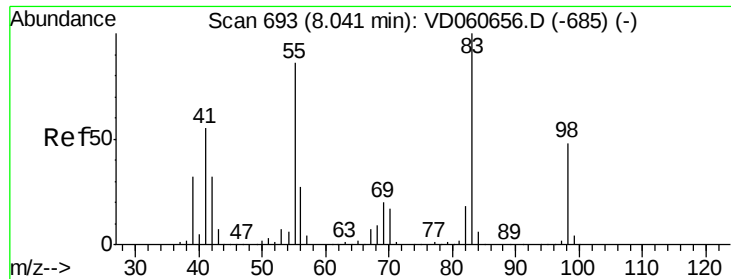
Tgt Ion: 43 Resp: 150997
Ion Ratio Lower Upper
43 100
61 16.9 11.8 17.6
70 9.8 5.8 8.6#



#38
Carbon Tetrachloride
Concen: 17.118 ug/l
RT: 6.51 min Scan# 537
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 117 Resp: 312174
Ion Ratio Lower Upper
117 100
119 97.1 77.0 115.4
121 29.8 24.7 37.1

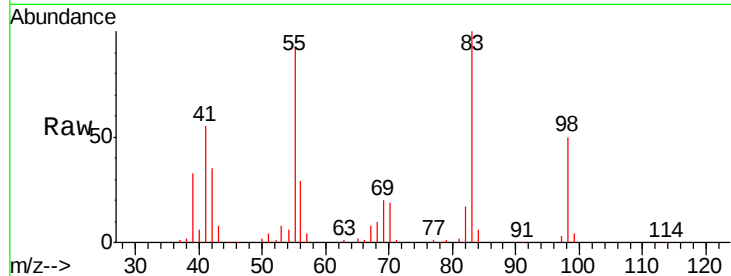




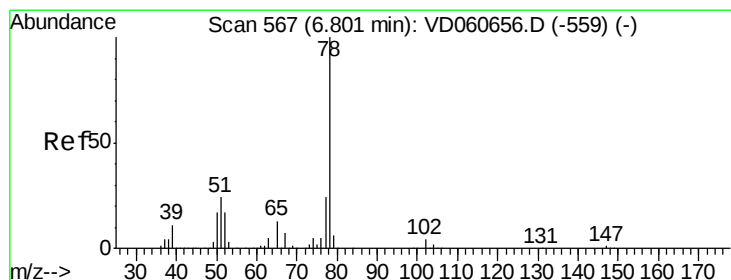
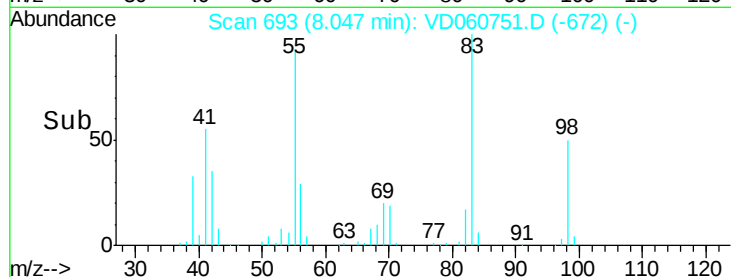
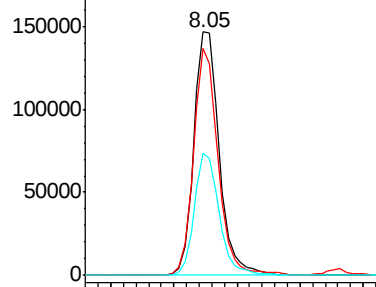
#39
Methylcyclohexane
Concen: 17.370 ug/l
RT: 8.05 min Scan# 693
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

Tgt Ion: 83 Resp: 409512
Ion Ratio Lower Upper
83 100
55 93.0 68.6 102.8
98 50.4 38.1 57.1

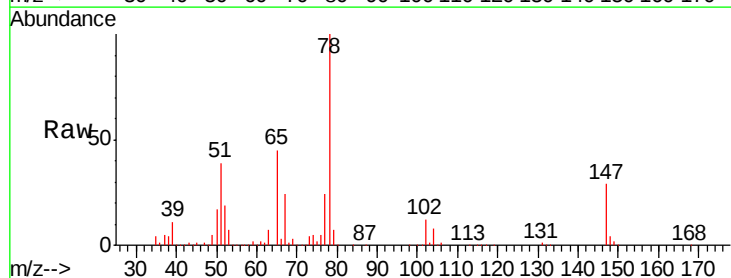


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

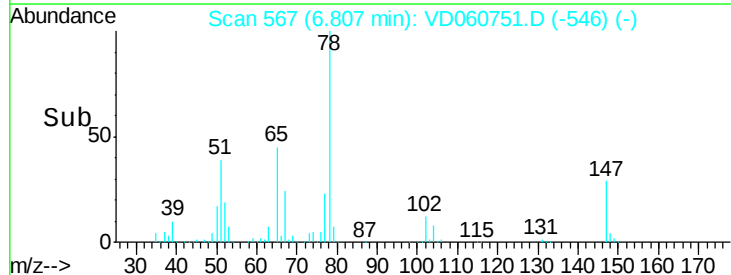
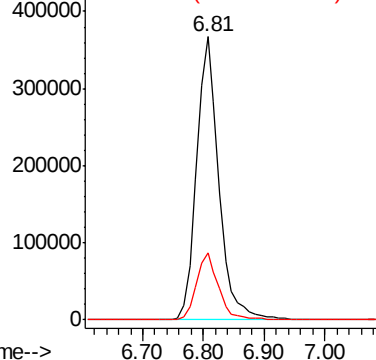


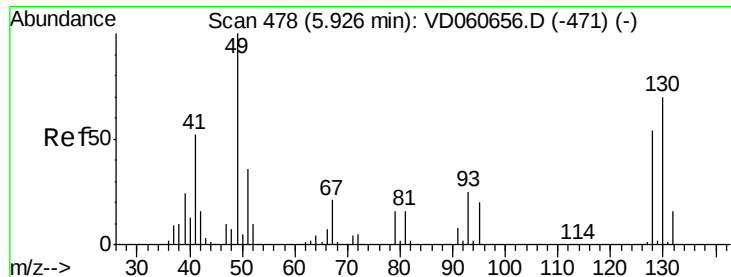
#40
Benzene
Concen: 17.529 ug/l
RT: 6.81 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 78 Resp: 935971
Ion Ratio Lower Upper
78 100
77 23.7 19.2 28.8



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





#41

Methacrylonitrile

Concen: 37.316 ug/l

RT: 5.96 min Scan# 481

Delta R.T. 0.03 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBSD01

Tgt Ion: 41 Resp: 178441

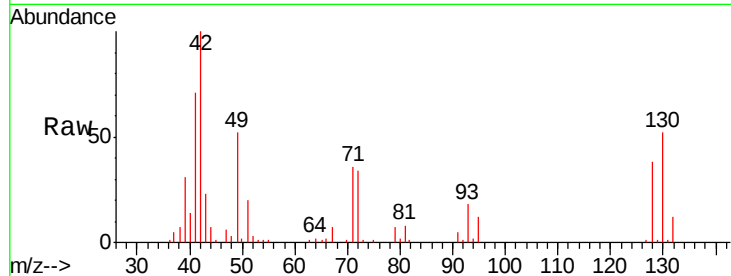
Ion Ratio Lower Upper

41 100

39 44.0 37.6 56.4

67 9.6 33.0 49.6#

52 4.7 15.5 23.3#

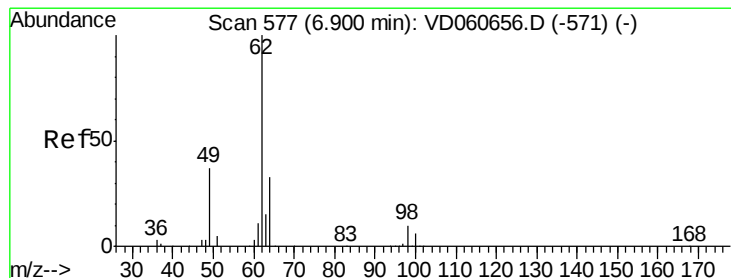
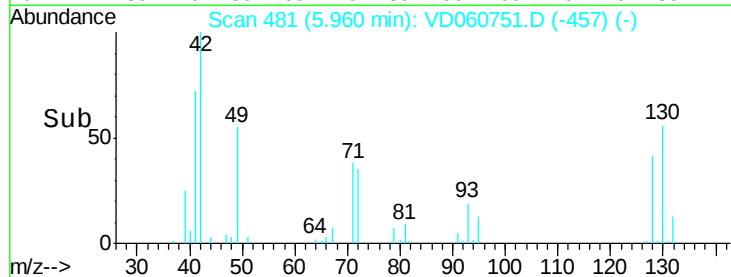
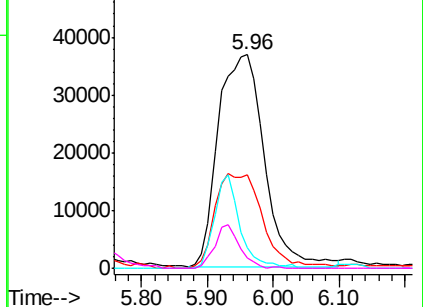


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 17.376 ug/l

RT: 6.91 min Scan# 577

Delta R.T. 0.01 min

Lab File: VD060751.D

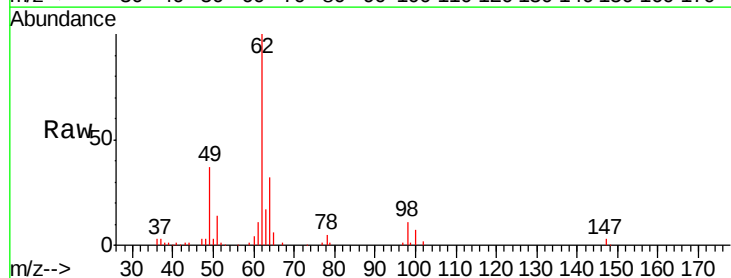
Acq: 28 Dec 2018 17:27

Tgt Ion: 62 Resp: 230235

Ion Ratio Lower Upper

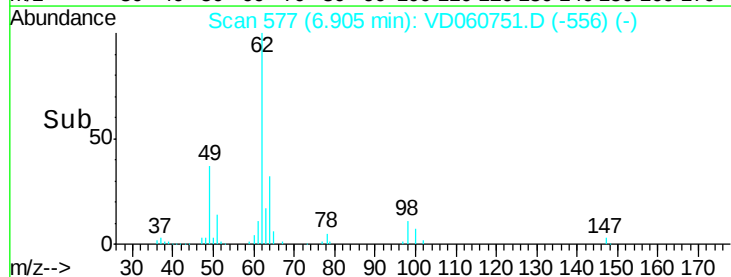
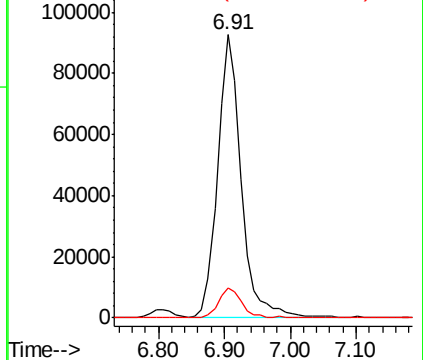
62 100

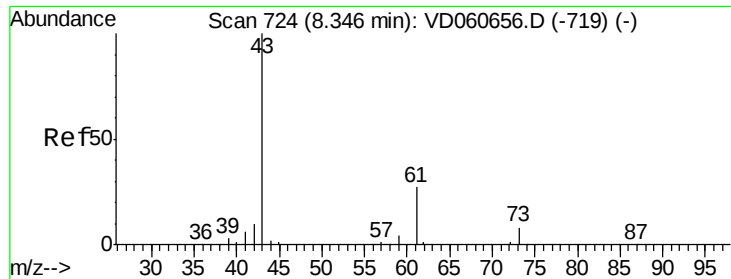
98 10.7 0.0 20.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 17.573 ug/l

RT: 8.36 min Scan# 725

Delta R.T. 0.02 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBSD01

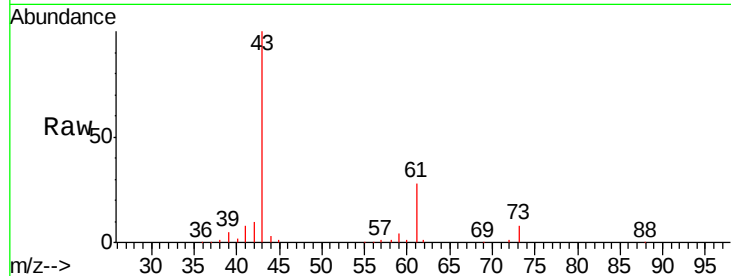
Tgt Ion: 43 Resp: 194956

Ion Ratio Lower Upper

43 100

61 28.3 21.8 32.8

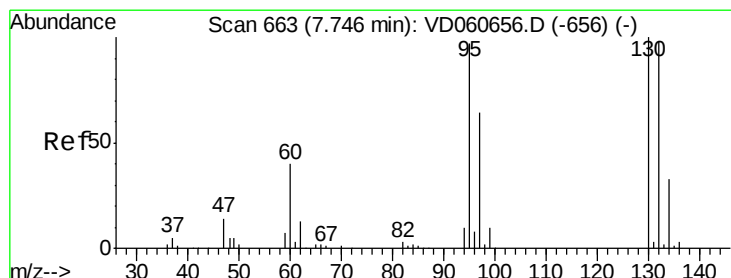
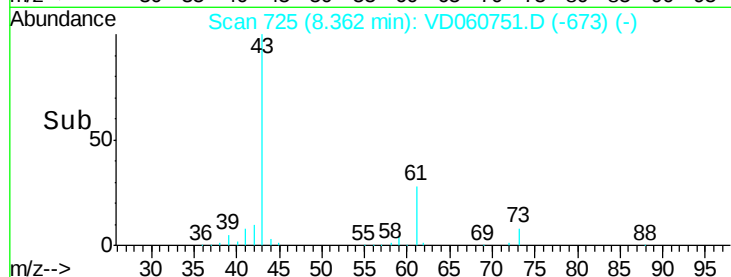
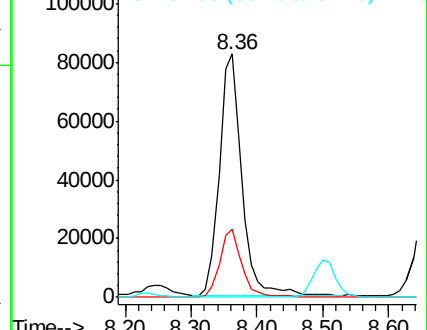
87 0.0 0.2 0.4#



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: 18.740 ug/l

RT: 7.75 min Scan# 663

Delta R.T. 0.01 min

Lab File: VD060751.D

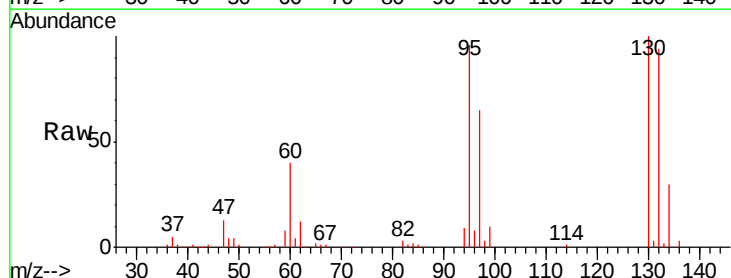
Acq: 28 Dec 2018 17:27

Tgt Ion:130 Resp: 296158

Ion Ratio Lower Upper

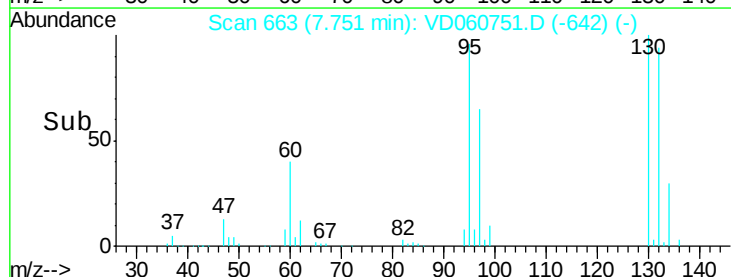
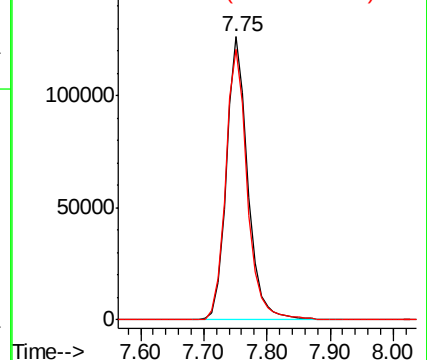
130 100

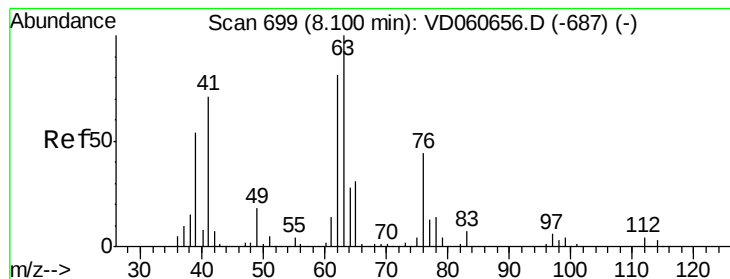
95 95.6 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 17.838 ug/l

RT: 8.12 min Scan# 700

Delta R.T. 0.02 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

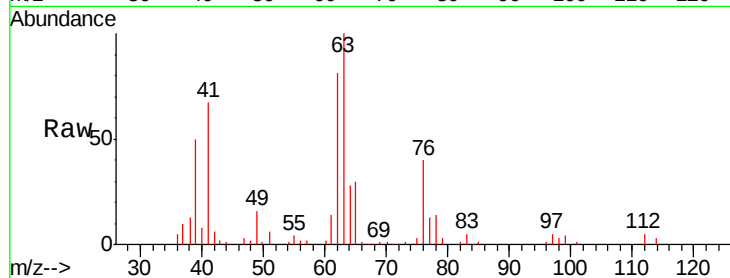
VD1228SBS01

Tgt Ion: 63 Resp: 233580

Ion Ratio Lower Upper

63 100

65 30.1 25.0 37.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.12

100000

80000

60000

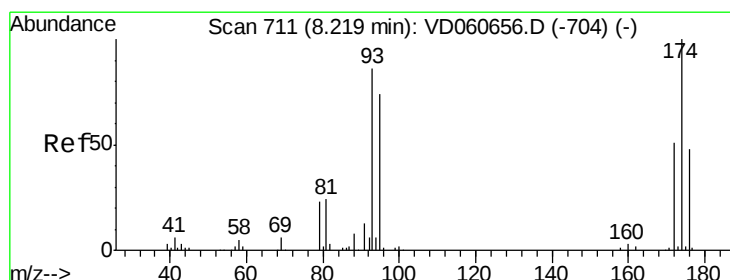
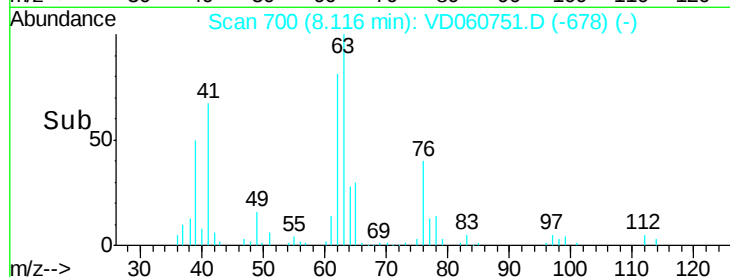
40000

20000

0

7.90 8.00 8.10 8.20 8.30

Time-->



#46

Dibromomethane

Concen: 17.392 ug/l

RT: 8.22 min Scan# 711

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

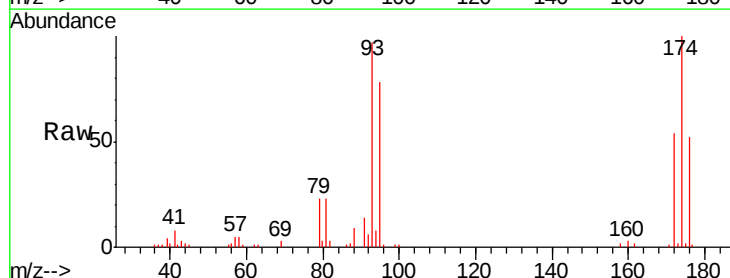
Tgt Ion: 93 Resp: 129978

Ion Ratio Lower Upper

93 100

95 80.1 68.8 103.2

174 102.9 93.0 139.4



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

80000

60000

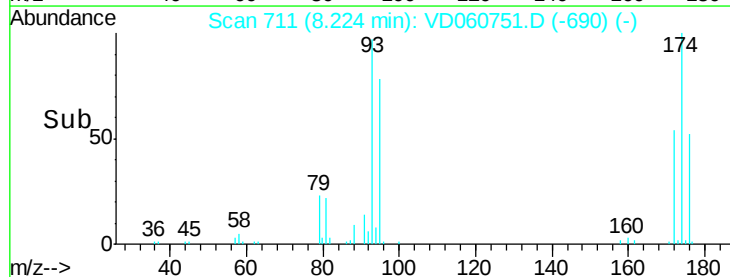
40000

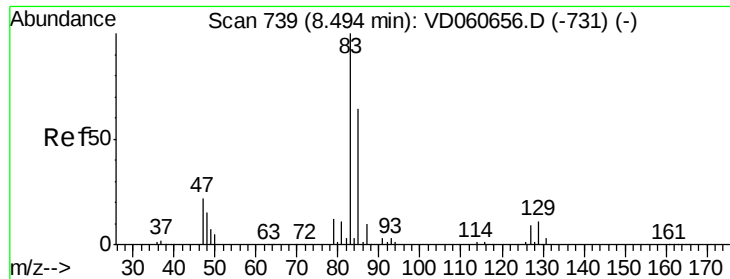
20000

0

8.10 8.20 8.30 8.40

Time-->





#47

Bromodichloromethane

Concen: 16.192 ug/l

RT: 8.50 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBS01

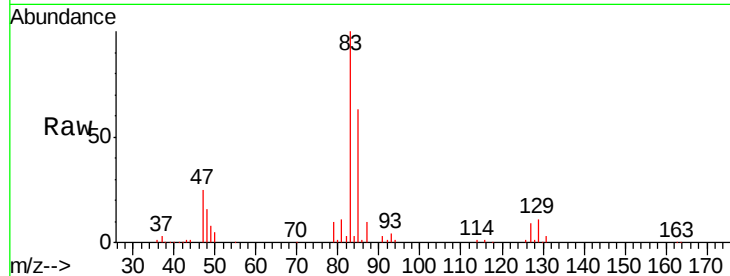
Tgt Ion: 83 Resp: 286612

Ion Ratio Lower Upper

83 100

85 63.4 51.1 76.7

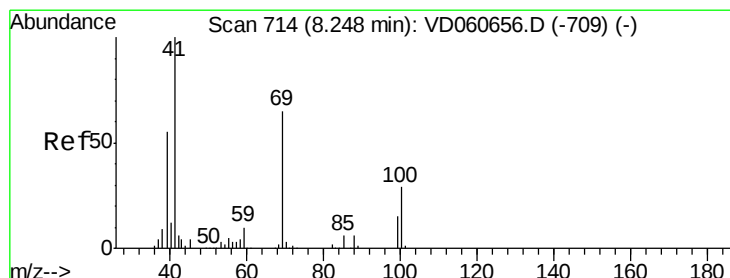
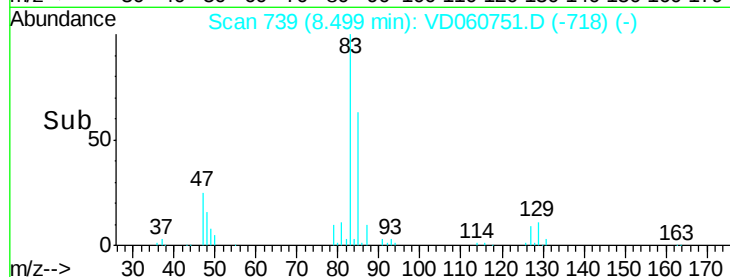
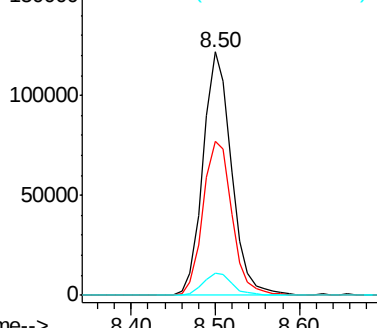
127 9.0 7.0 10.6



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: 18.031 ug/l

RT: 8.25 min Scan# 714

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

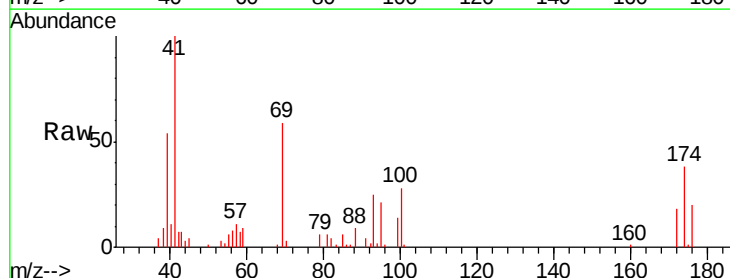
Tgt Ion: 41 Resp: 121497

Ion Ratio Lower Upper

41 100

69 58.8 51.2 76.8

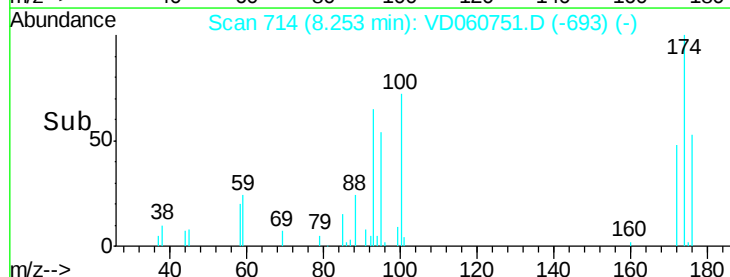
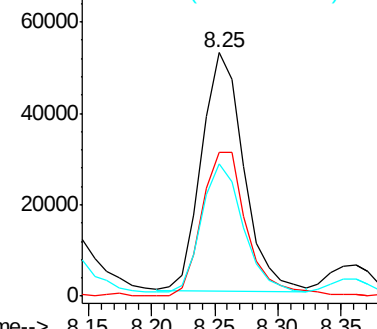
39 54.3 44.6 67.0

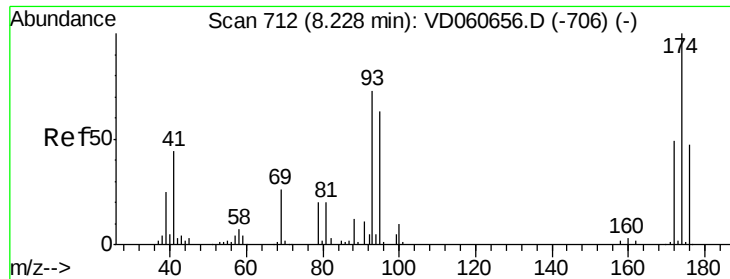


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

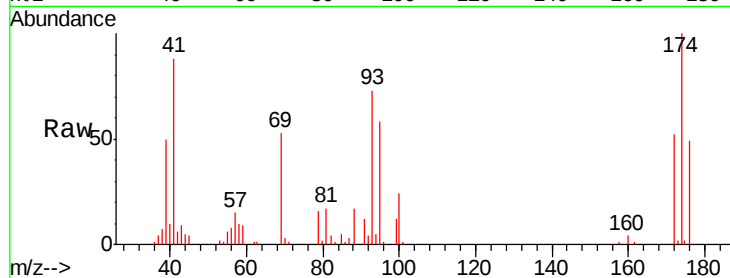




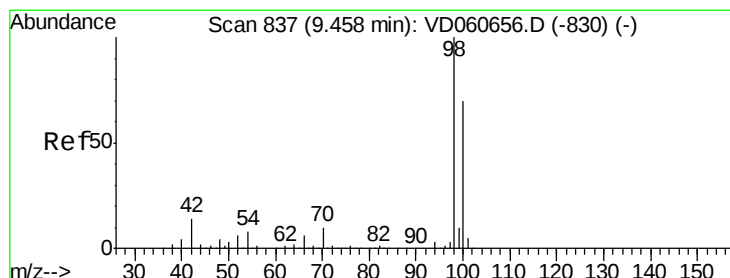
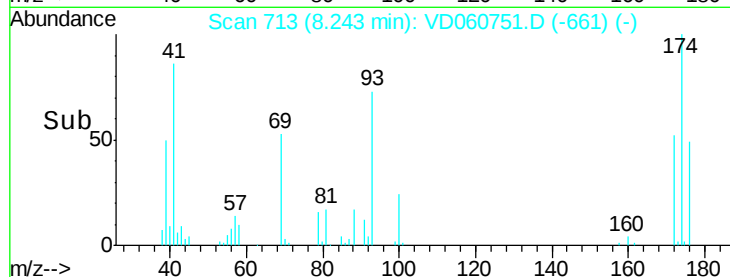
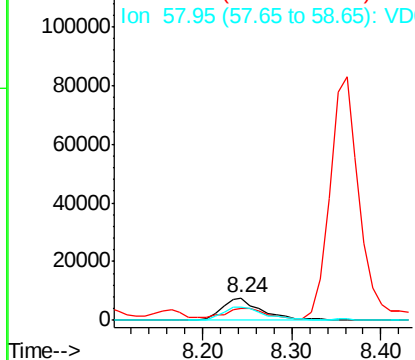
#49
1,4-Dioxane
Concen: 374.935 ug/l
RT: 8.24 min Scan# 713
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Instrument :
MSVOA_D
ClientSampleId :
VD1228SBS01

Tgt Ion: 88 Resp: 23490
Ion Ratio Lower Upper
88 100
43 53.7 31.5 47.3#
58 55.7 50.6 76.0

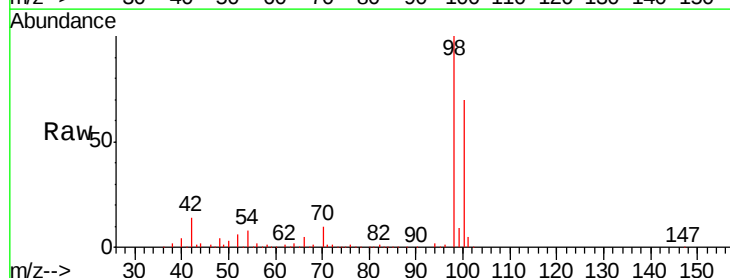


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

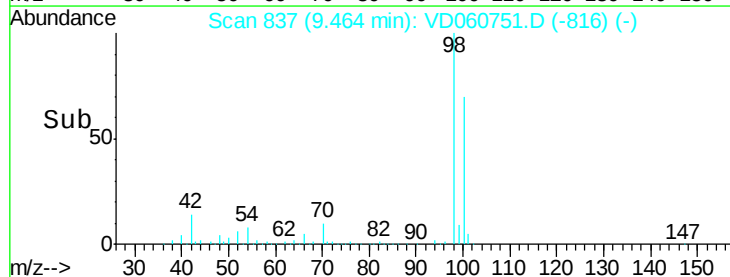
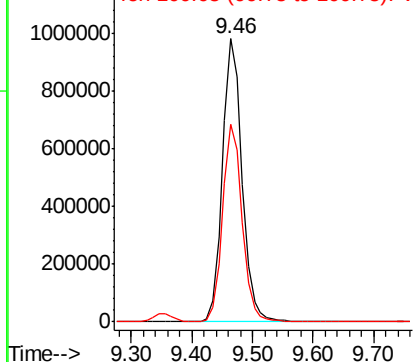


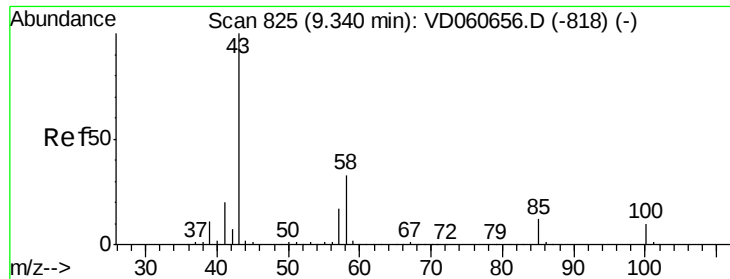
#50
Toluene-d8
Concen: 374.935 ug/l
RT: 9.46 min Scan# 837
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 98 Resp: 2204845
Ion Ratio Lower Upper
98 100
100 69.9 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 89.061 ug/l

RT: 9.36 min Scan# 826

Delta R.T. 0.02 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

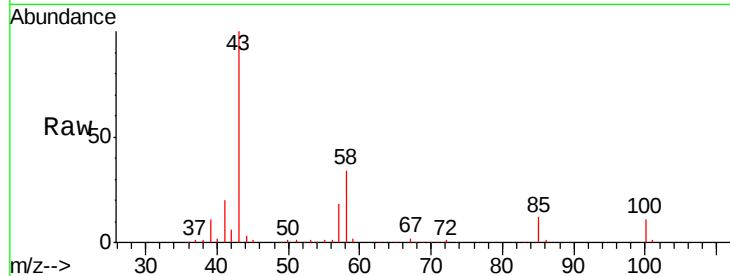
VD1228SBS01

Tgt Ion: 43 Resp: 605350

Ion Ratio Lower Upper

43 100

58 34.1 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.36

250000

200000

150000

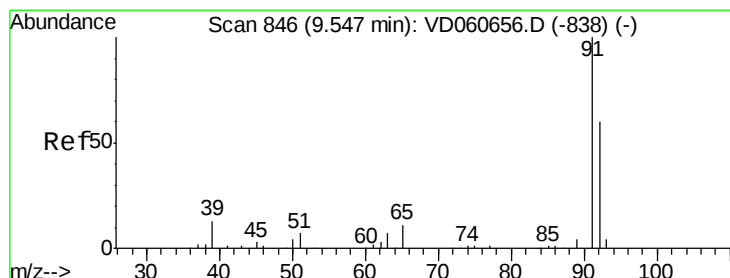
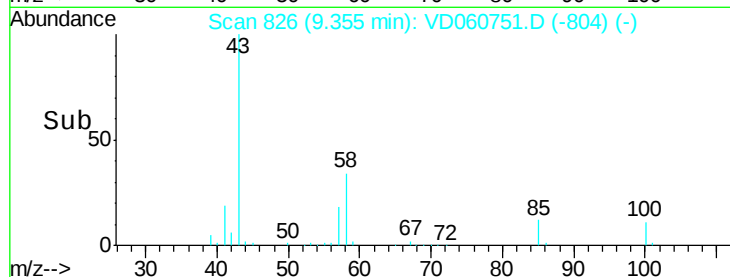
100000

50000

0

9.30 9.40

Time-->



#52

Toluene

Concen: 17.569 ug/l

RT: 9.56 min Scan# 847

Delta R.T. 0.02 min

Lab File: VD060751.D

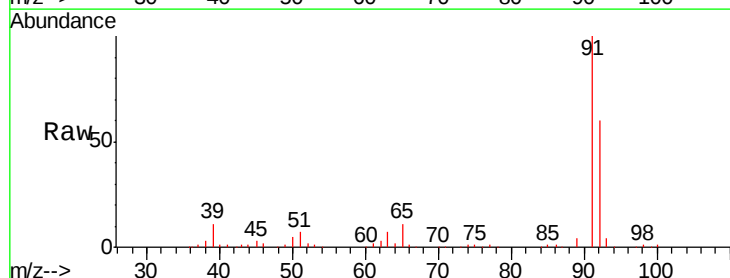
Acq: 28 Dec 2018 17:27

Tgt Ion: 92 Resp: 588079

Ion Ratio Lower Upper

92 100

91 166.7 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

500000

400000

300000

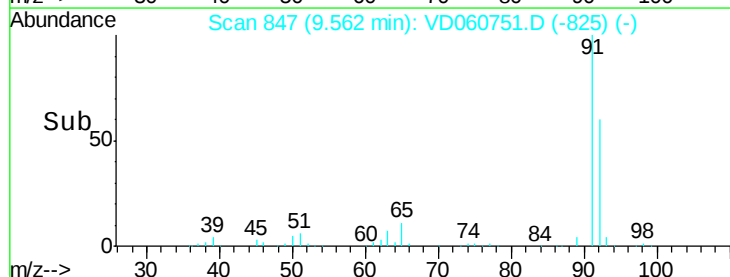
200000

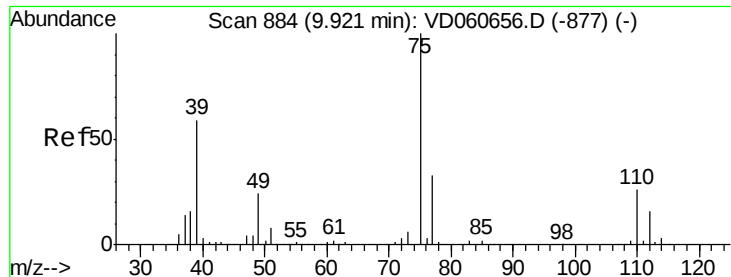
100000

0

9.40 9.50 9.60 9.70 9.80

Time-->

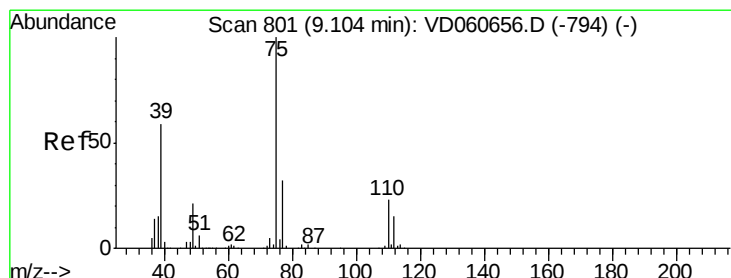
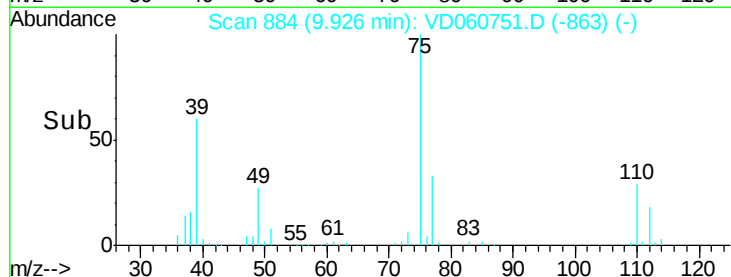
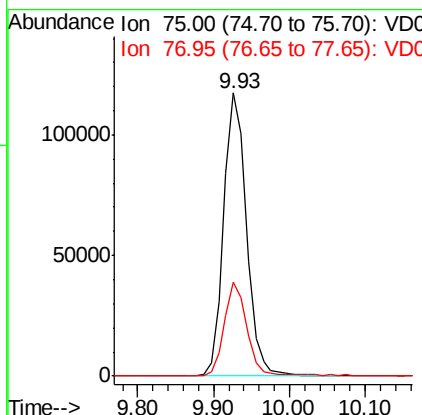
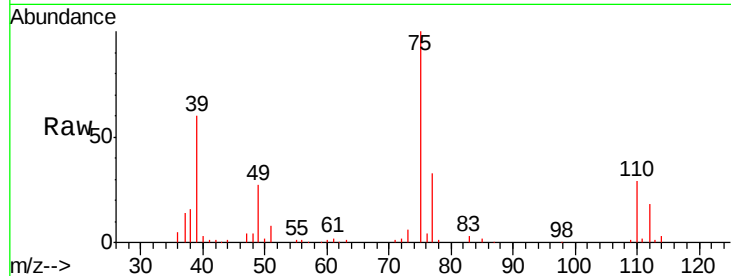




#53
t-1,3-Dichloropropene
Concen: 16.582 ug/l
RT: 9.93 min Scan# 884
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

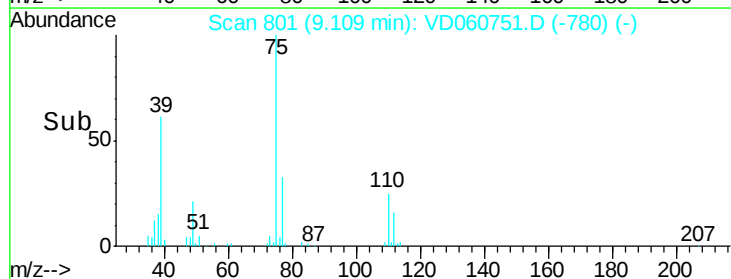
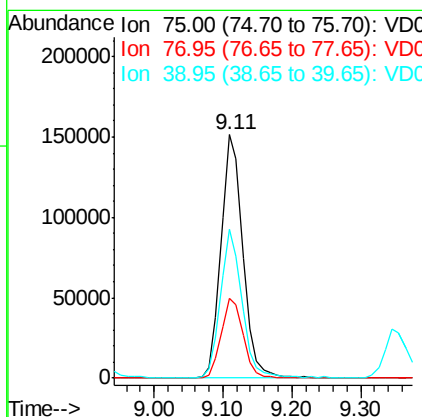
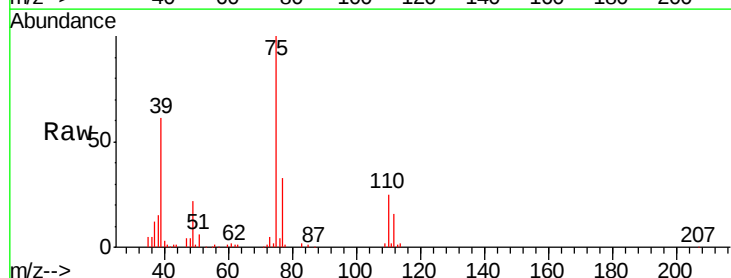
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

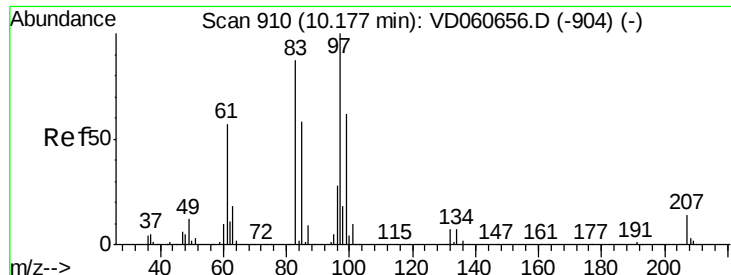
Tgt Ion: 75 Resp: 244871
Ion Ratio Lower Upper
75 100
77 33.1 26.0 39.0



#54
cis-1,3-Dichloropropene
Concen: 17.205 ug/l
RT: 9.11 min Scan# 801
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 75 Resp: 332554
Ion Ratio Lower Upper
75 100
77 32.6 25.4 38.2
39 61.3 47.0 70.4

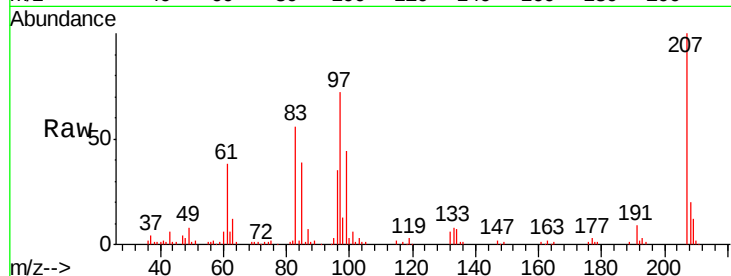




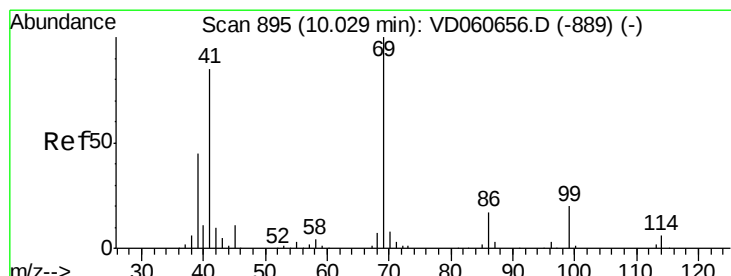
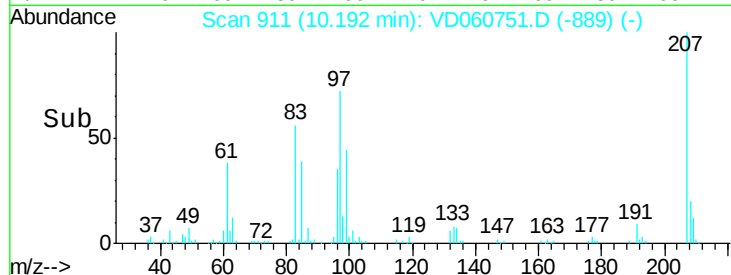
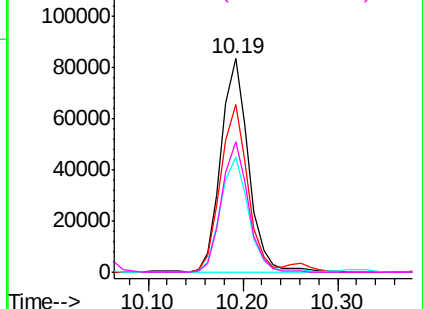
#55
 1,1,2-Trichloroethane
 Concen: 18.817 ug/l
 RT: 10.19 min Scan# 911
 Delta R.T. 0.02 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

Tgt Ion:	97	Resp:	169467
Ion	Ratio	Lower	Upper
97	100		
83	78.4	70.0	105.0
85	53.9	46.6	70.0
99	60.9	49.6	74.4

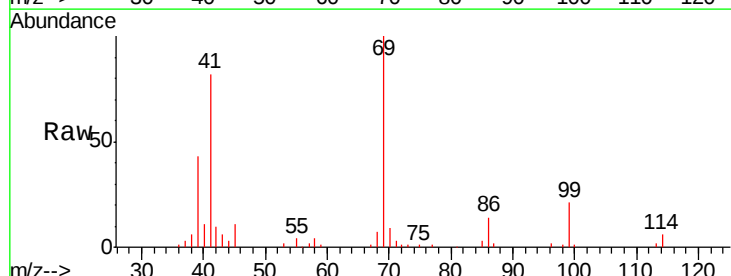


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

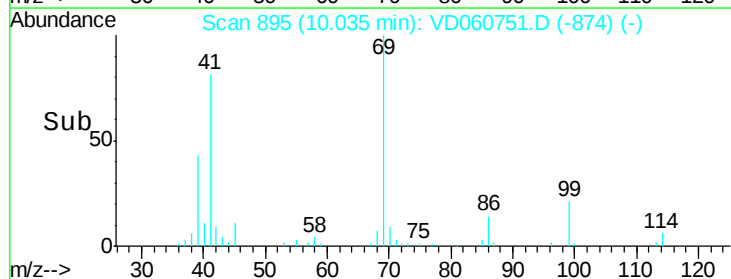
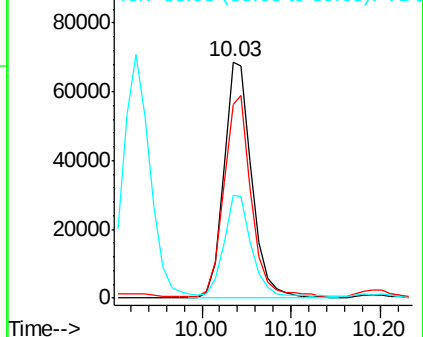


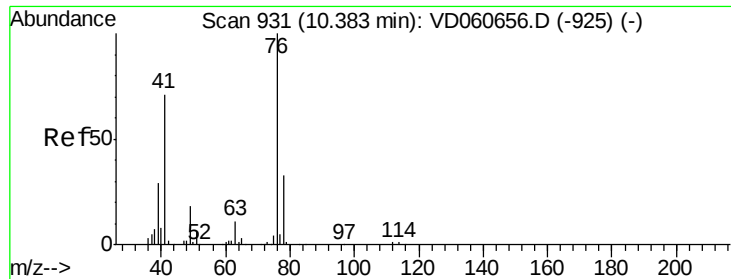
#56
 Ethyl methacrylate
 Concen: 18.004 ug/l
 RT: 10.03 min Scan# 895
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion:	69	Resp:	150603
Ion	Ratio	Lower	Upper
69	100		
41	82.2	68.3	102.5
39	43.4	37.2	55.8



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: 16.732 ug/l

RT: 10.39 min Scan# 931

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

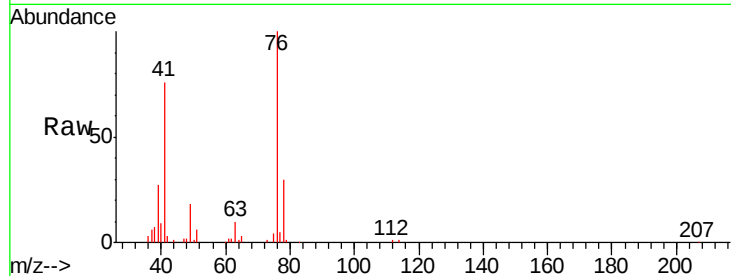
VD1228SBSD01

Tgt Ion: 76 Resp: 238857

Ion Ratio Lower Upper

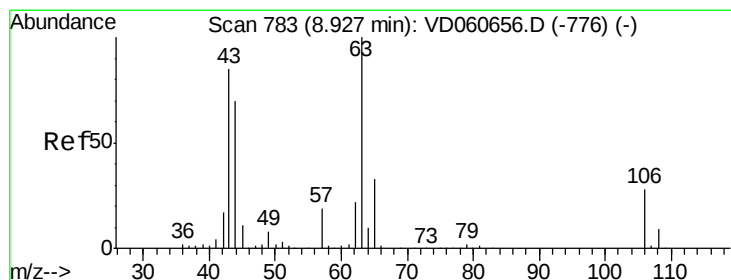
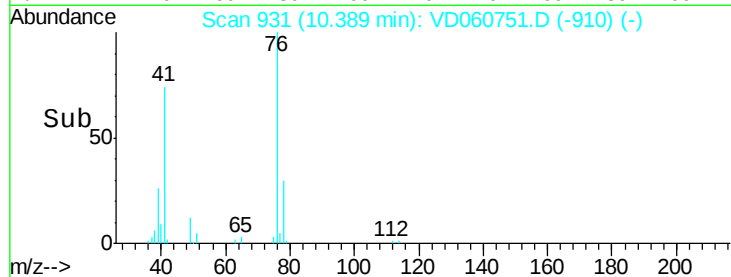
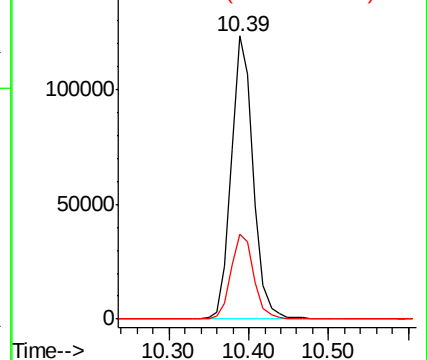
76 100

78 30.0 26.1 39.1



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 93.517 ug/l

RT: 8.93 min Scan# 783

Delta R.T. 0.01 min

Lab File: VD060751.D

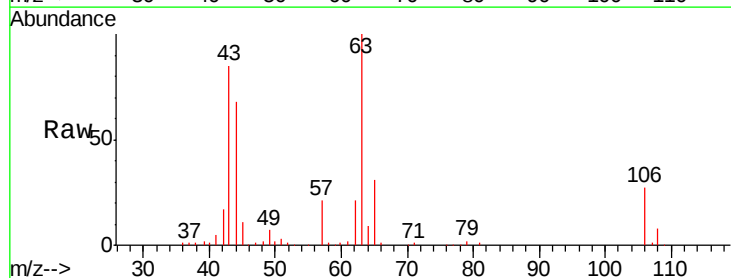
Acq: 28 Dec 2018 17:27

Tgt Ion: 63 Resp: 460938

Ion Ratio Lower Upper

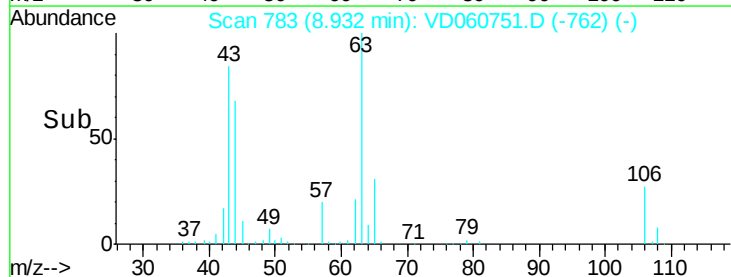
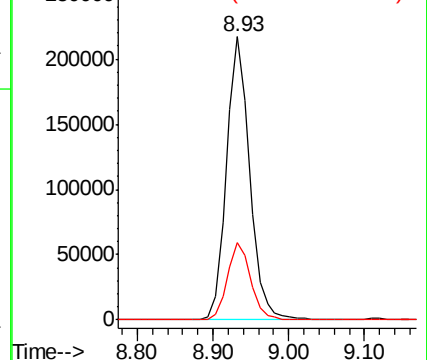
63 100

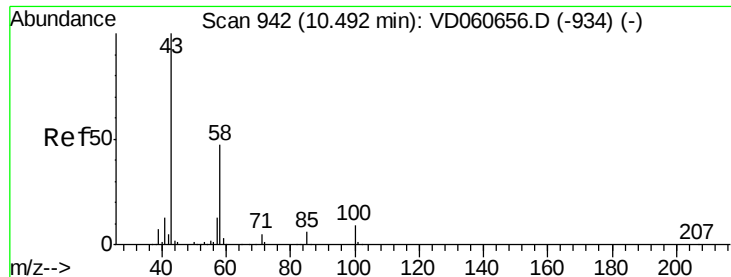
106 27.5 22.4 33.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

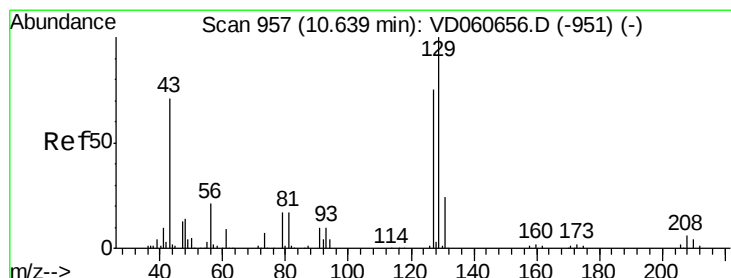
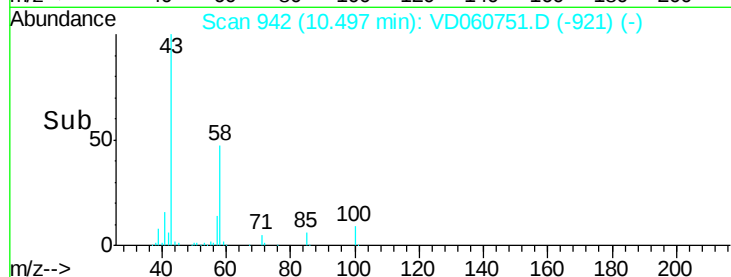
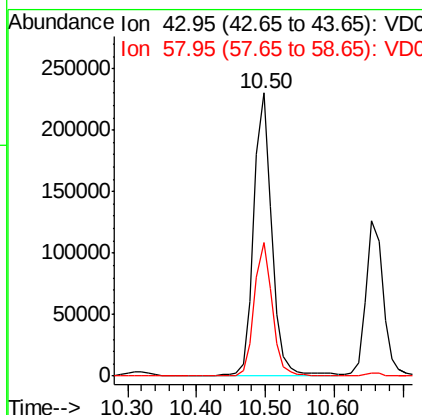
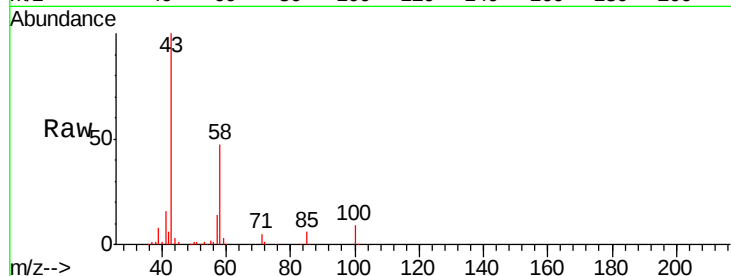




#59
2-Hexanone
Concen: 88.941 ug/l
RT: 10.50 min Scan# 942
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

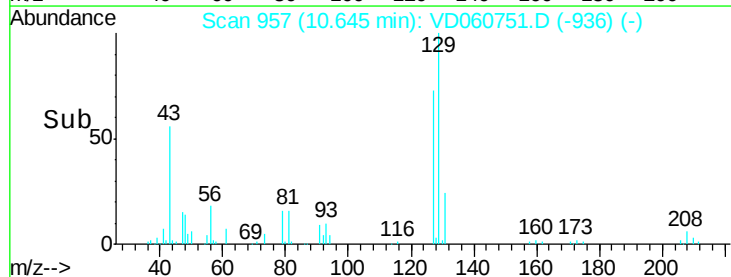
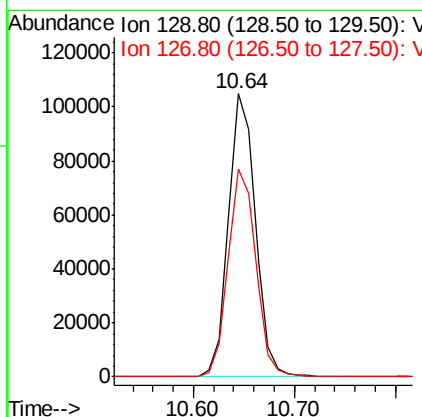
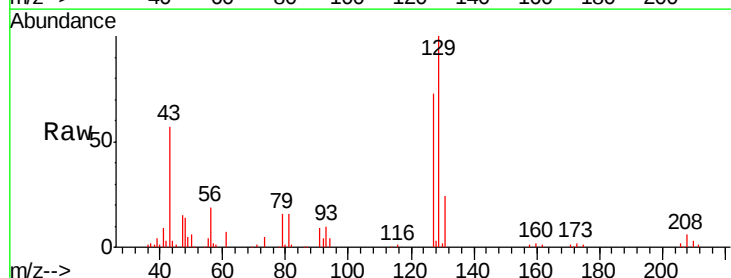
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBS01

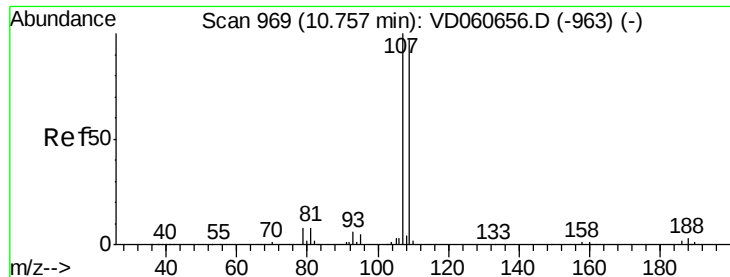
Tgt Ion: 43 Resp: 423152
Ion Ratio Lower Upper
43 100
58 47.2 23.5 70.5



#60
Dibromochloromethane
Concen: 16.963 ug/l
RT: 10.64 min Scan# 957
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 129 Resp: 194596
Ion Ratio Lower Upper
129 100
127 73.4 37.6 112.9

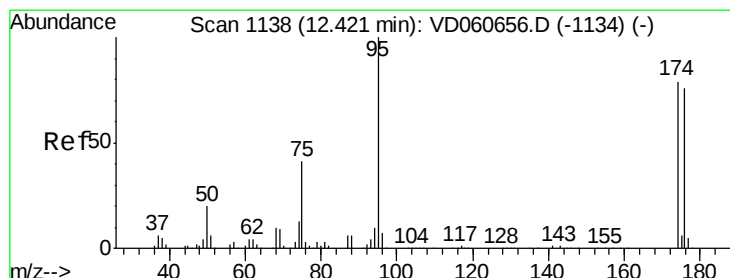
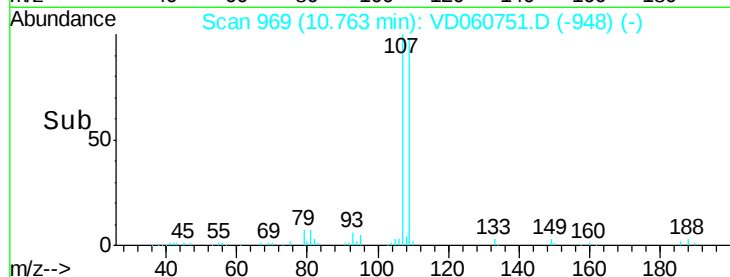
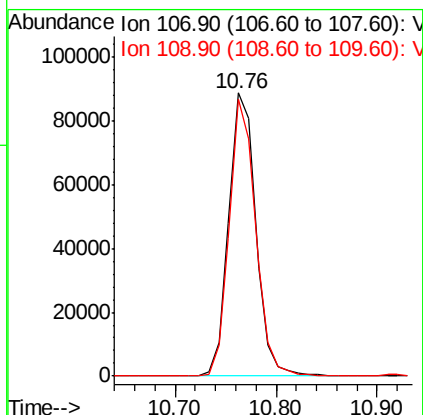
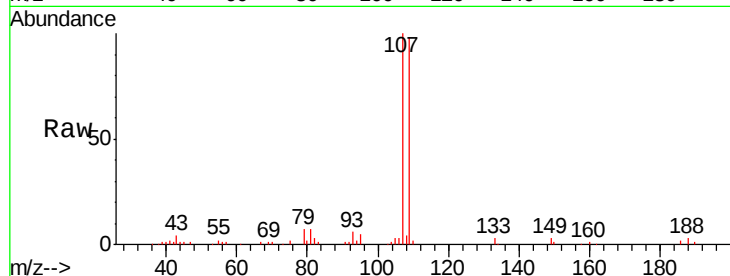




#61
1,2-Dibromoethane
Concen: 17.667 ug/l
RT: 10.76 min Scan# 969
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

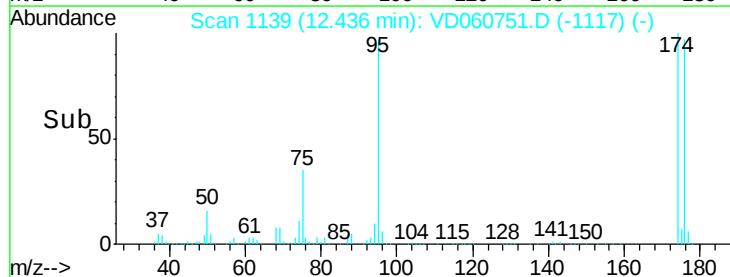
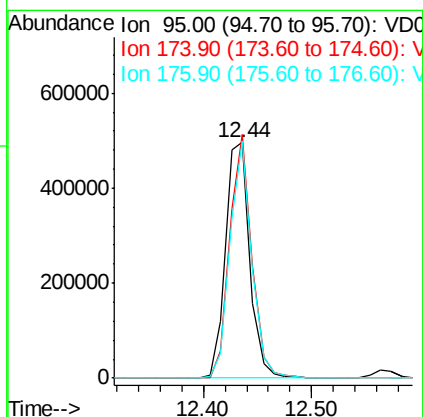
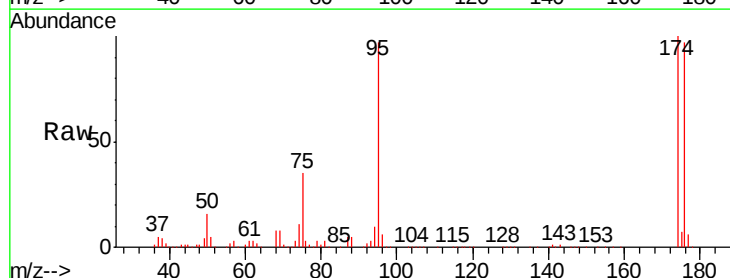
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

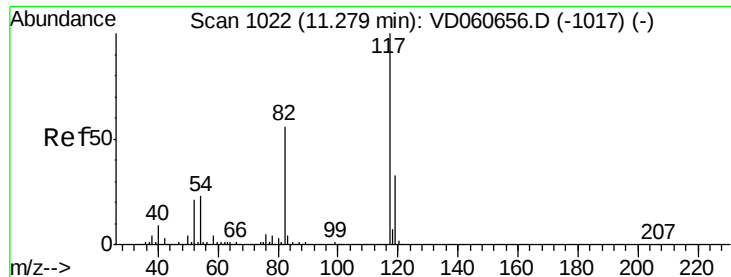
Tgt Ion: 107 Resp: 165039
Ion Ratio Lower Upper
107 100
109 97.7 78.0 117.0



#62
4-Bromofluorobenzene
Concen: 17.667 ug/l
RT: 12.44 min Scan# 1139
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 95 Resp: 773436
Ion Ratio Lower Upper
95 100
174 103.4 0.0 158.2
176 100.6 0.0 152.4

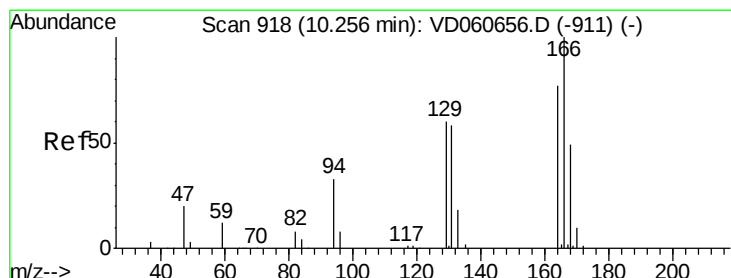
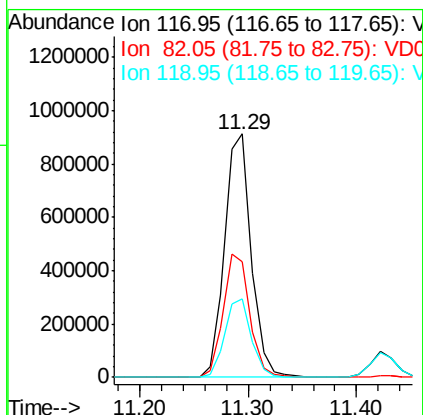
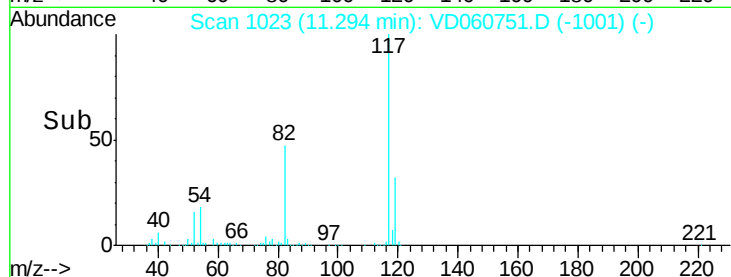
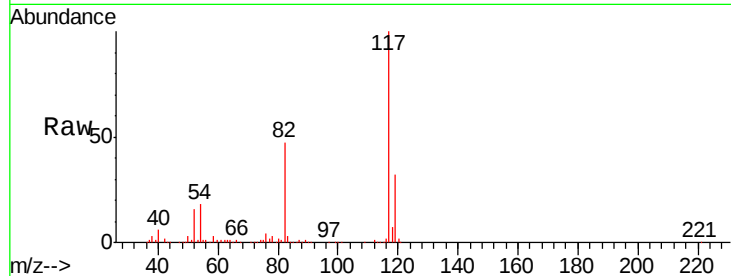




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 1023
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

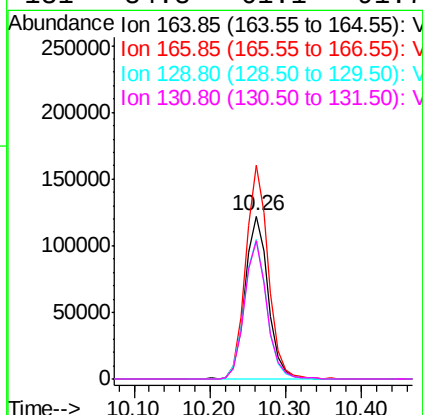
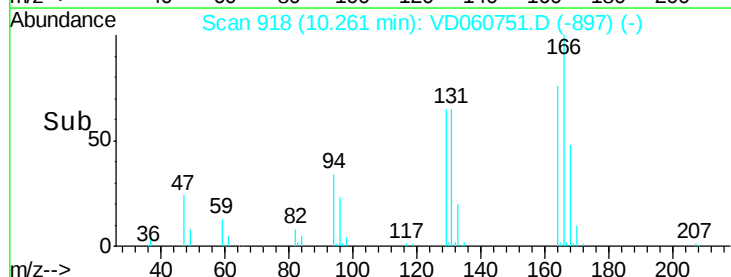
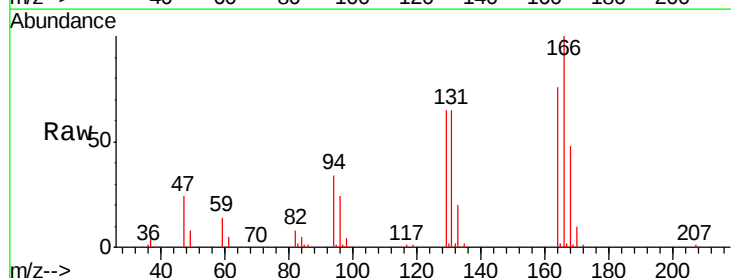
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

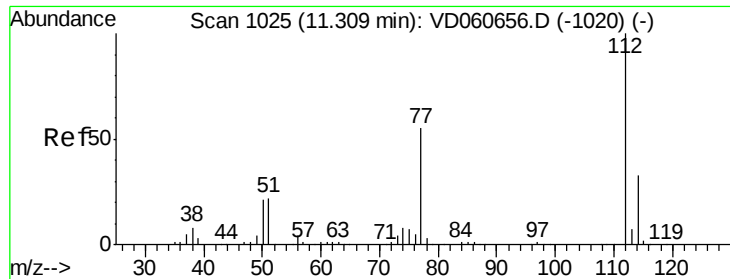
Tgt Ion:117 Resp: 1561591
Ion Ratio Lower Upper
117 100
82 47.5 44.5 66.7
119 32.5 26.3 39.5



#64
Tetrachloroethene
Concen: 18.103 ug/l
RT: 10.26 min Scan# 918
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion:164 Resp: 256226
Ion Ratio Lower Upper
164 100
166 131.3 104.4 156.6
129 86.0 62.7 94.1
131 84.8 61.1 91.7

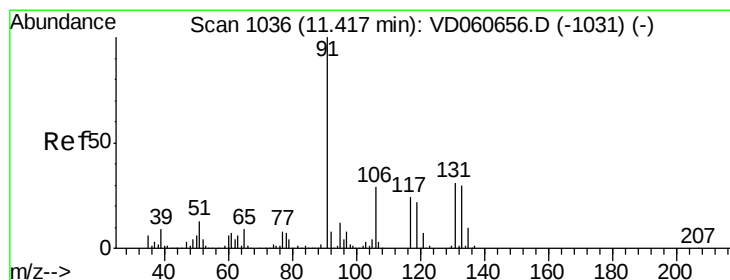
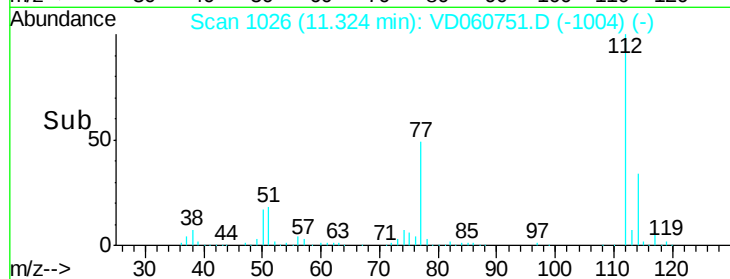
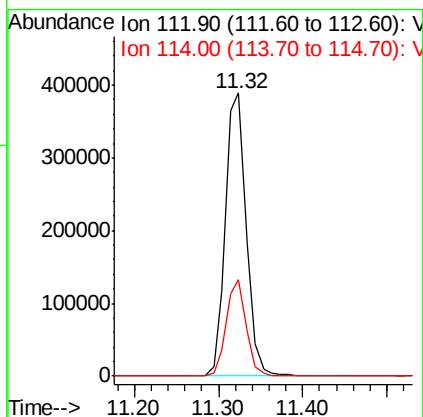
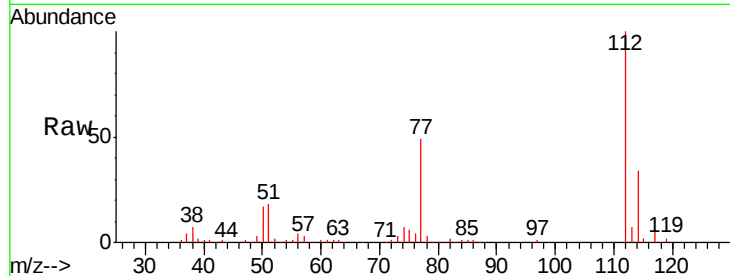




#65
Chlorobenzene
Concen: 19.340 ug/l
RT: 11.32 min Scan# 1026
Delta R.T. 0.02 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

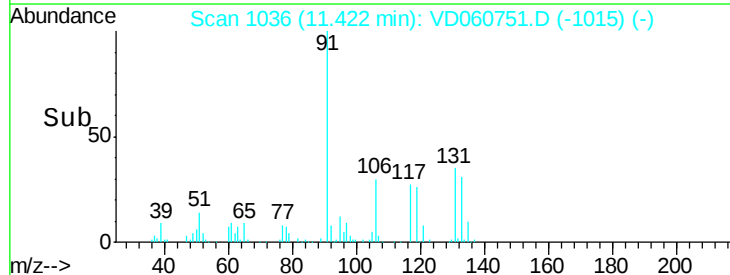
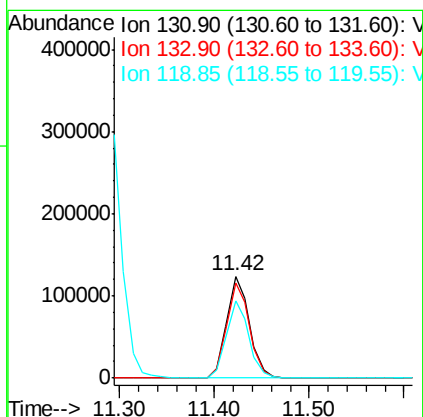
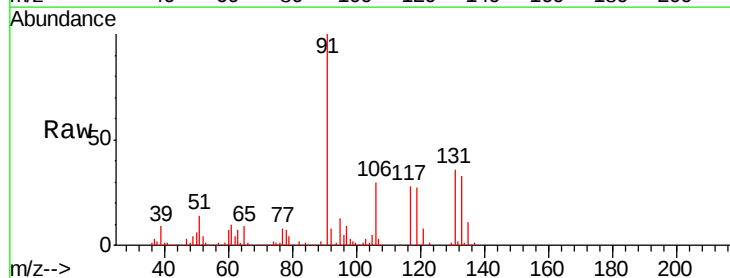
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBS01

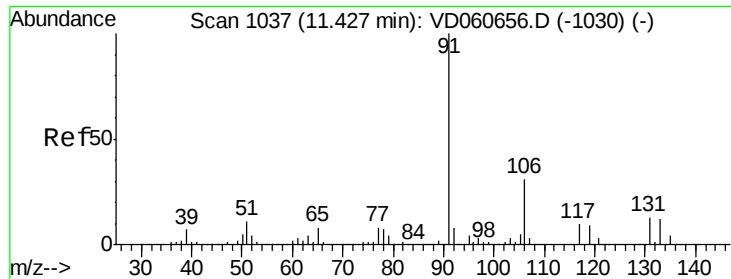
Tgt Ion:112 Resp: 667256
Ion Ratio Lower Upper
112 100
114 34.1 26.1 39.1



#66
1,1,1,2-Tetrachloroethane
Concen: 18.564 ug/l
RT: 11.42 min Scan# 1036
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion:131 Resp: 205929
Ion Ratio Lower Upper
131 100
133 93.7 49.1 147.3
119 75.5 36.6 109.8

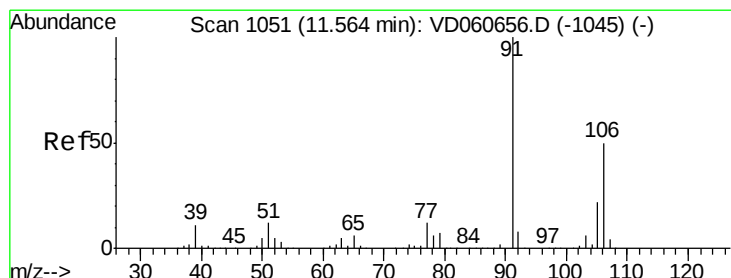
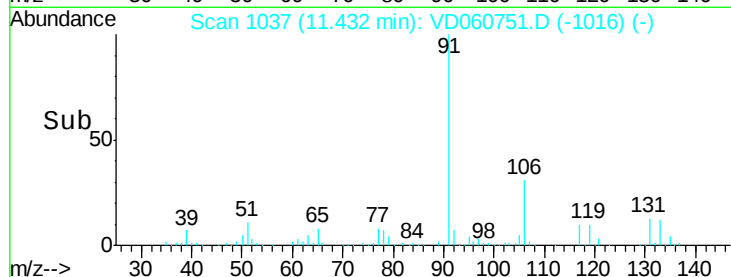
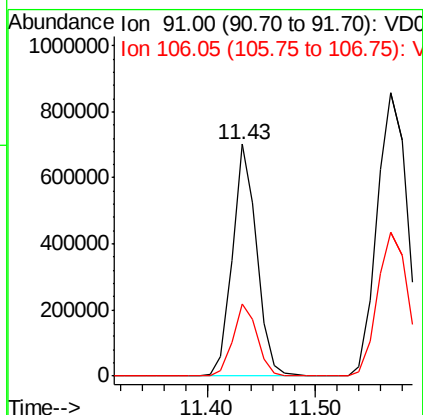
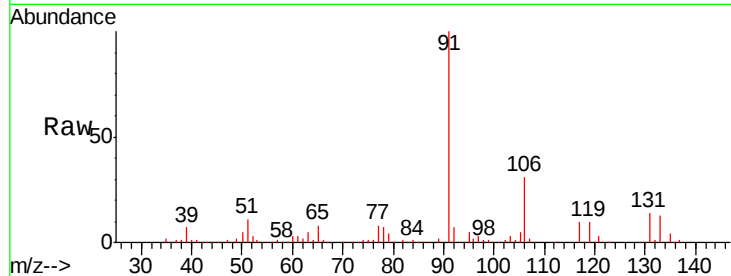




#67
Ethyl Benzene
Concen: 18.548 ug/l
RT: 11.43 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

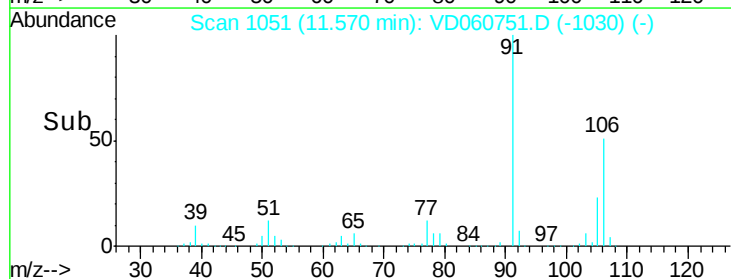
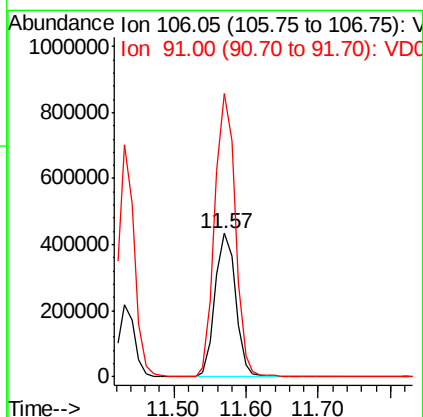
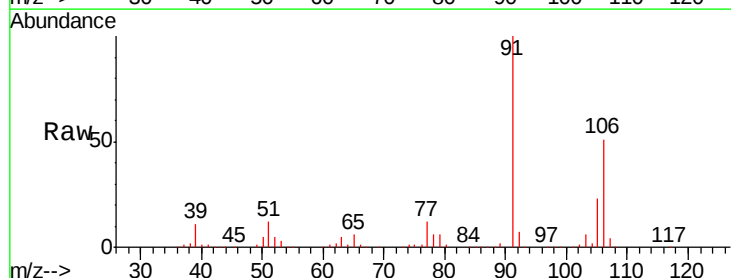
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

Tgt Ion: 91 Resp: 1095962
Ion Ratio Lower Upper
91 100
106 31.1 24.6 36.8



#68
m/p-Xylenes
Concen: 39.324 ug/l
RT: 11.57 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 106 Resp: 849130
Ion Ratio Lower Upper
106 100
91 197.3 158.9 238.3

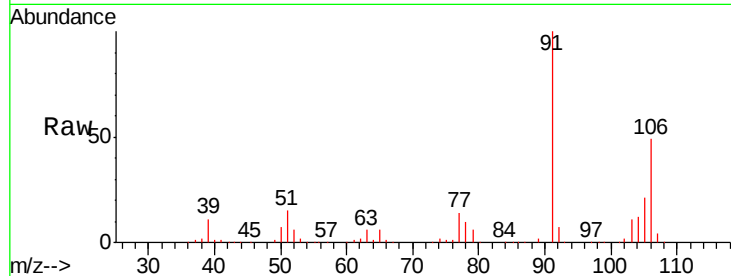




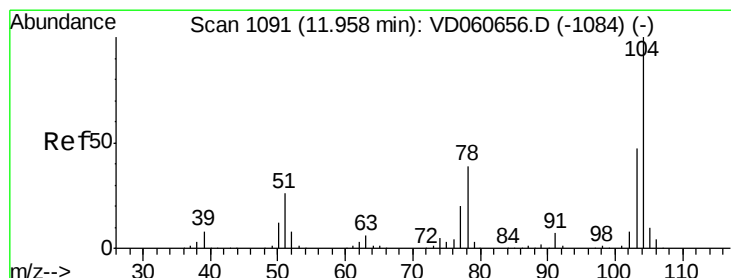
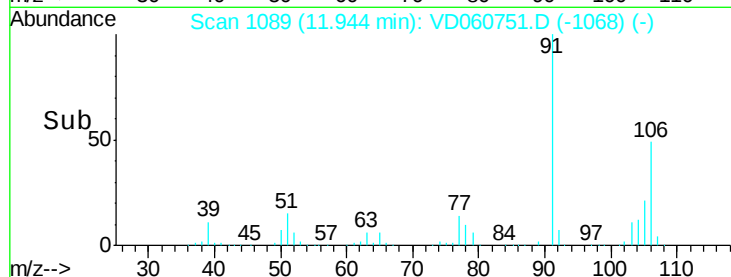
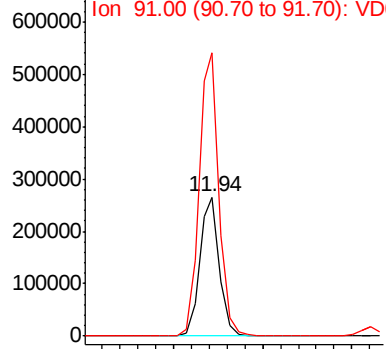
#69
o-Xylene
Concen: 20.017 ug/l
RT: 11.94 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Instrument :
MSVOA_D
ClientSampleId :
VD1228SBS01

Tgt Ion:106 Resp: 410081
Ion Ratio Lower Upper
106 100
91 203.5 101.5 304.5

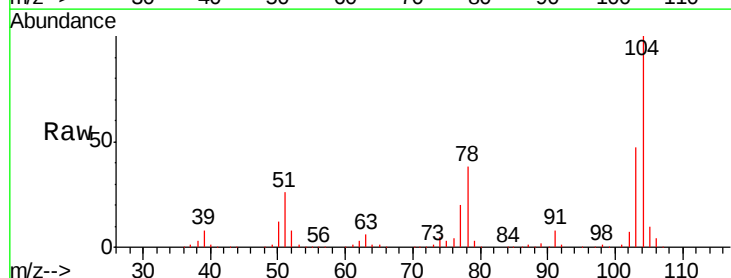


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

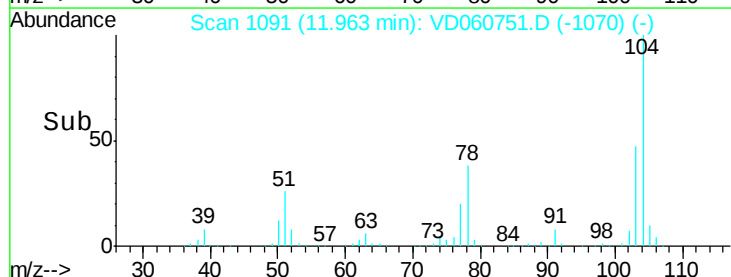
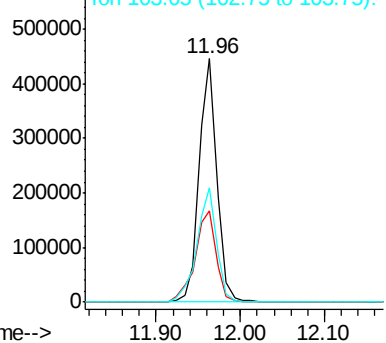


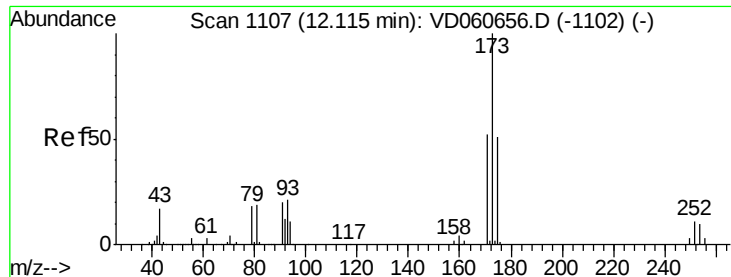
#70
Styrene
Concen: 19.621 ug/l
RT: 11.96 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion:104 Resp: 647405
Ion Ratio Lower Upper
104 100
78 37.8 31.4 47.2
103 46.7 37.5 56.3



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

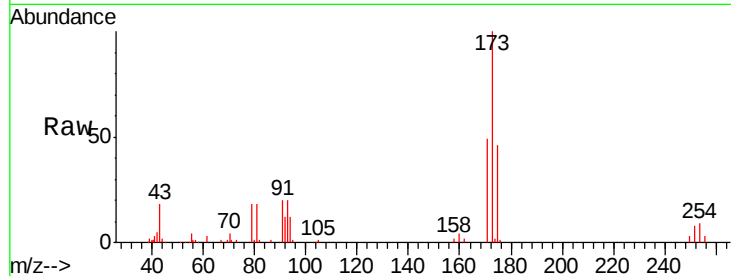




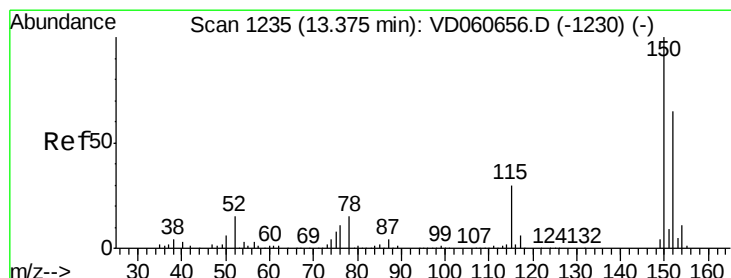
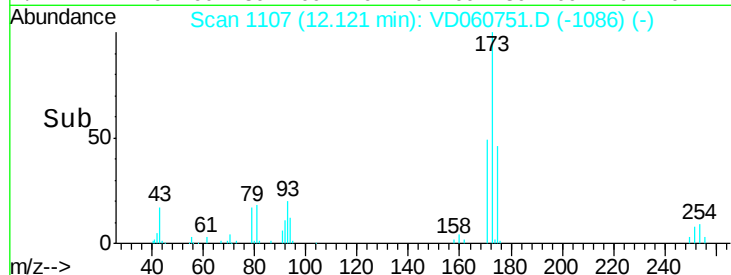
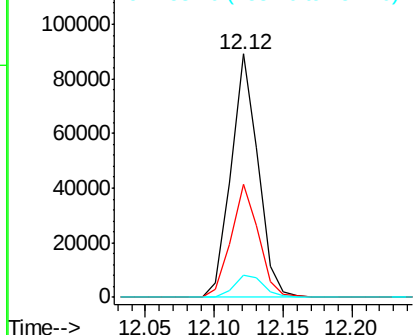
#71
Bromoform
Concen: 16.609 ug/l
RT: 12.12 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

Tgt Ion:173 Resp: 121617
Ion Ratio Lower Upper
173 100
175 46.4 25.5 76.5
254 9.3 7.9 11.9

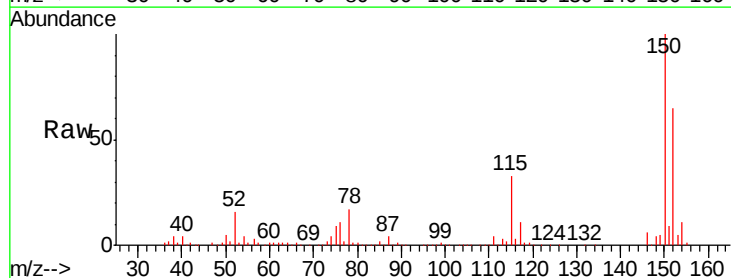


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

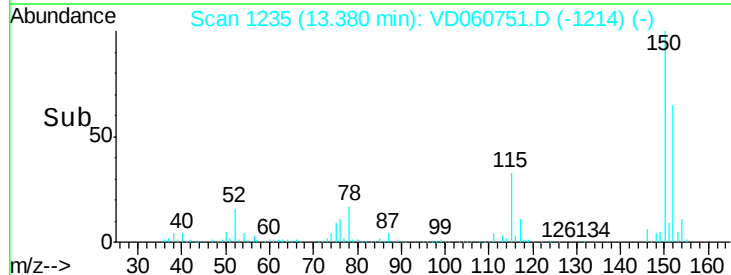
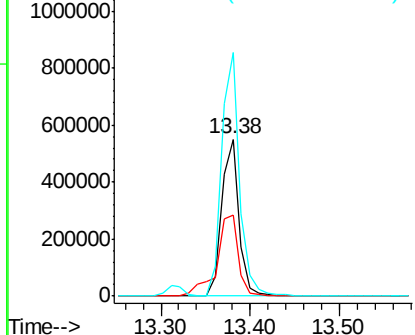


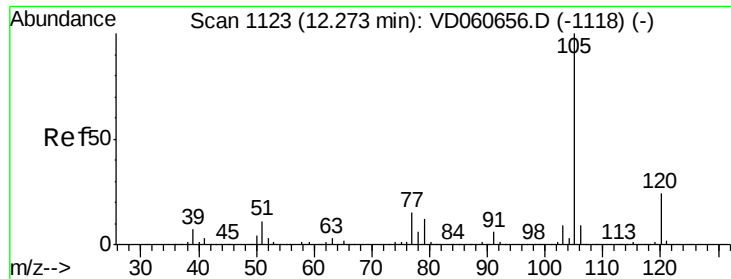
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1235
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion:152 Resp: 750654
Ion Ratio Lower Upper
152 100
115 51.4 24.1 72.3
150 154.9 0.0 315.0



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





#73

Isopropylbenzene

Concen: 20.425 ug/l

RT: 12.28 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

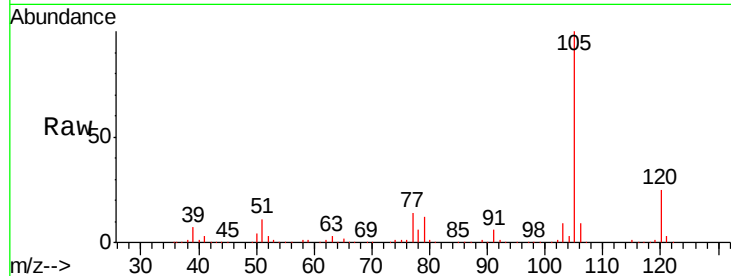
VD1228SBSD01

Tgt Ion:105 Resp: 1091625

Ion Ratio Lower Upper

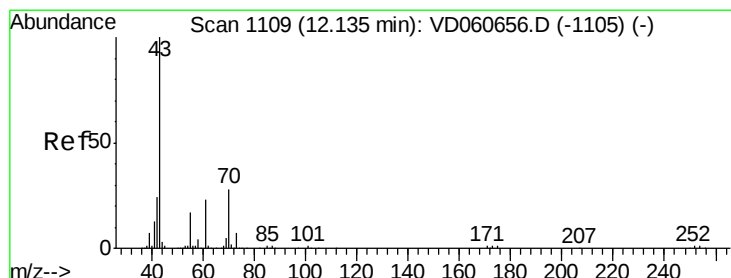
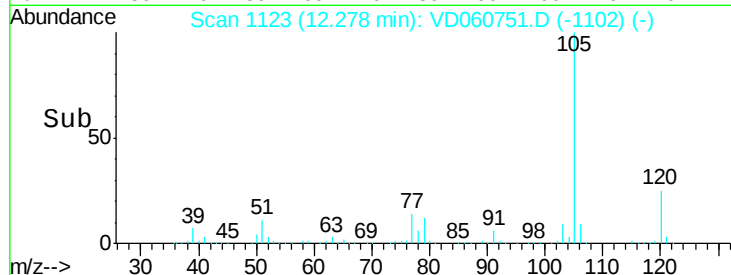
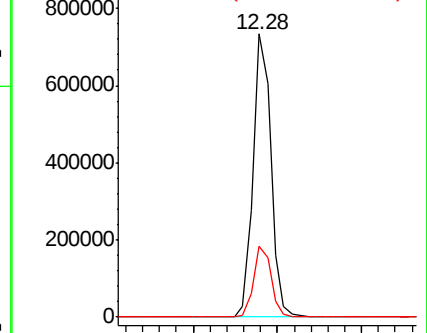
105 100

120 25.0 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 20.540 ug/l

RT: 12.14 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Tgt Ion: 43 Resp: 259084

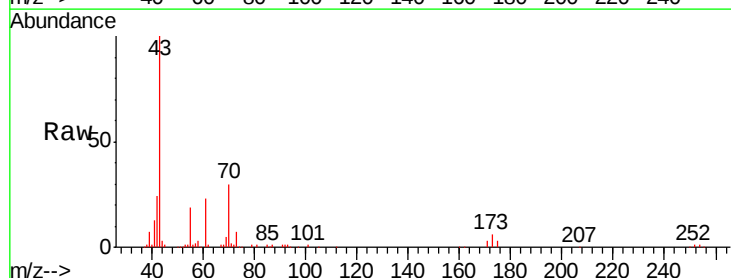
Ion Ratio Lower Upper

43 100

70 29.9 22.2 33.2

55 18.7 13.8 20.8

61 23.4 18.2 27.2

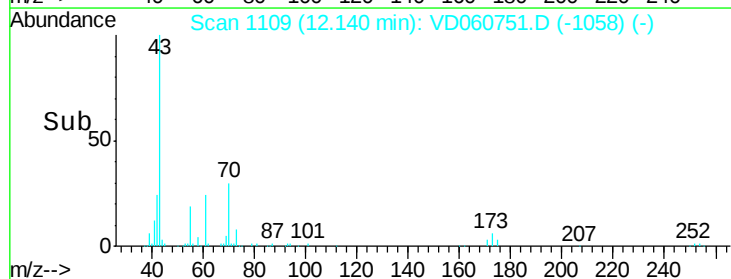
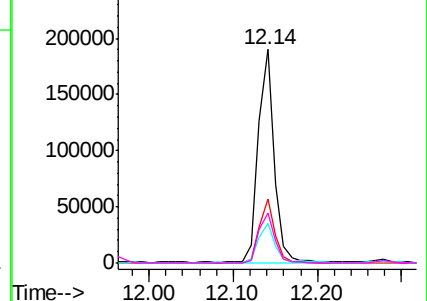


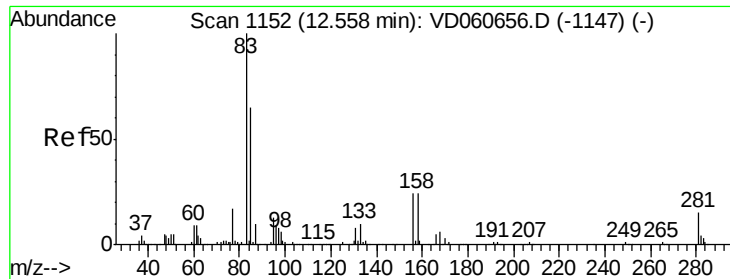
Abundance Ion 42.95 (42.65 to 43.65): V

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

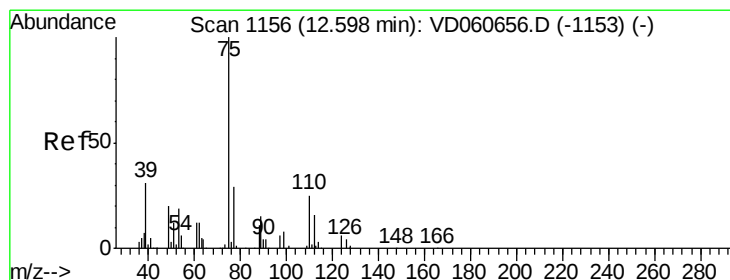
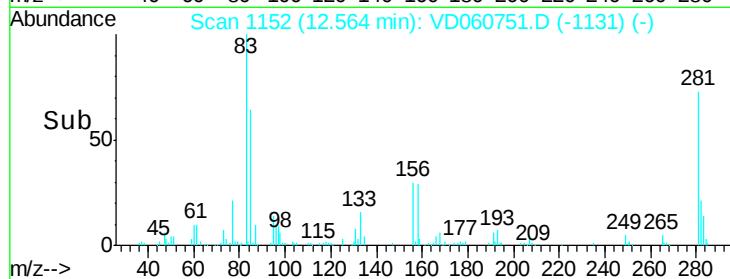
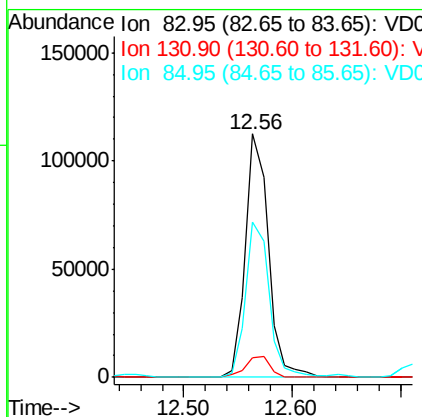
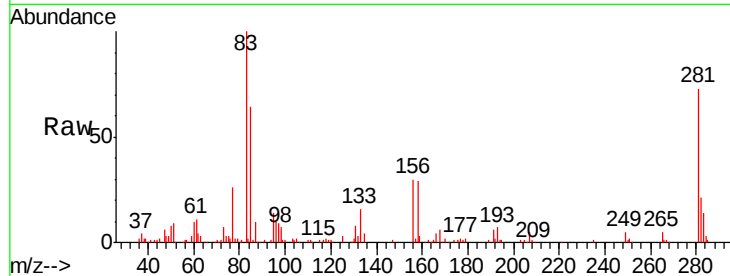




#75
 1,1,2,2-Tetrachloroethane
 Concen: 19.255 ug/l
 RT: 12.56 min Scan# 1152
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

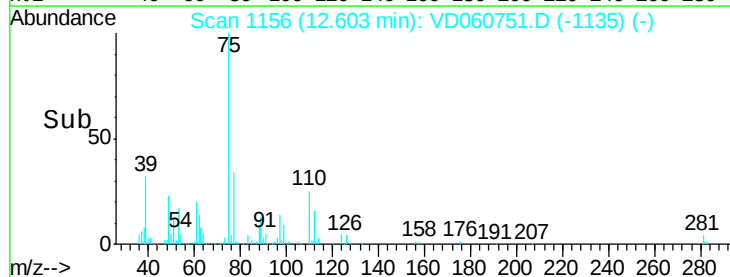
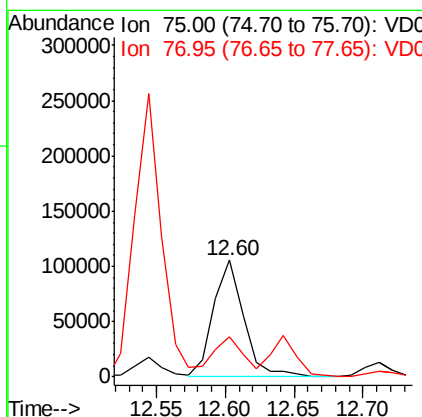
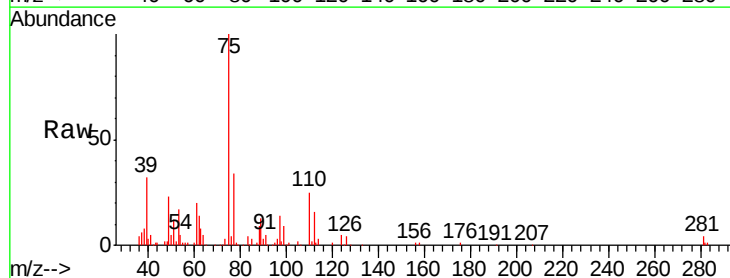
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

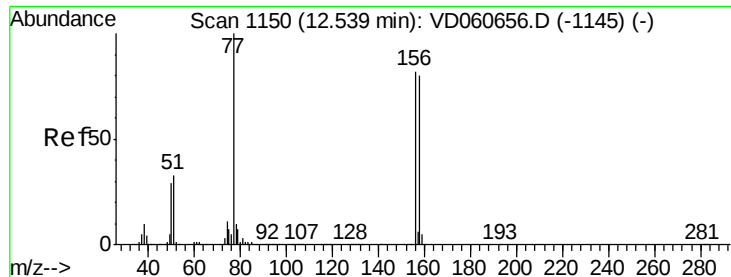
Tgt Ion	Ratio	Lower	Upper
83	100		
131	7.9	4.2	12.4
85	63.9	32.6	97.7



#76
 1,2,3-Trichloropropane
 Concen: 18.666 ug/l
 RT: 12.60 min Scan# 1156
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.4	16.7	50.0

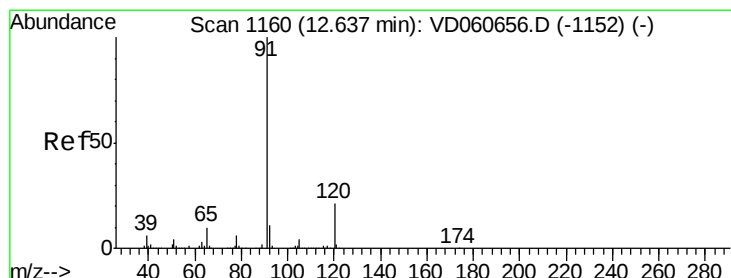
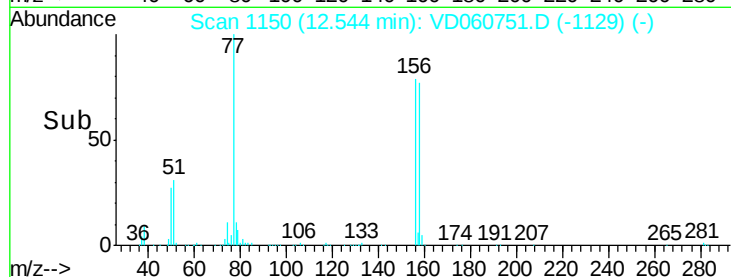
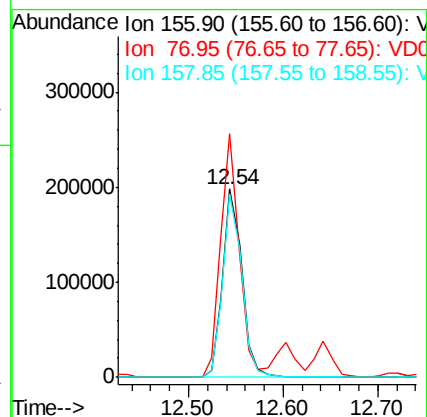
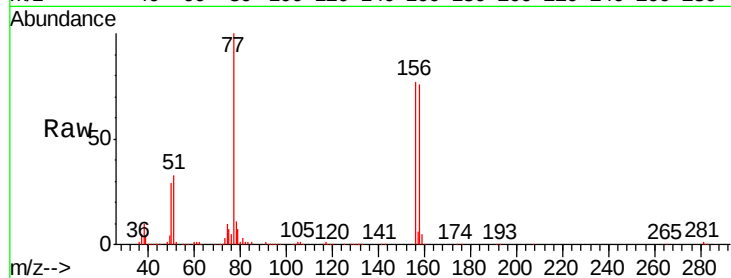




#77
Bromobenzene
Concen: 19.779 ug/l
RT: 12.54 min Scan# 1150
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

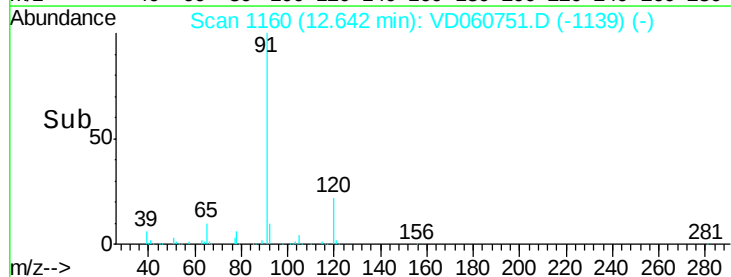
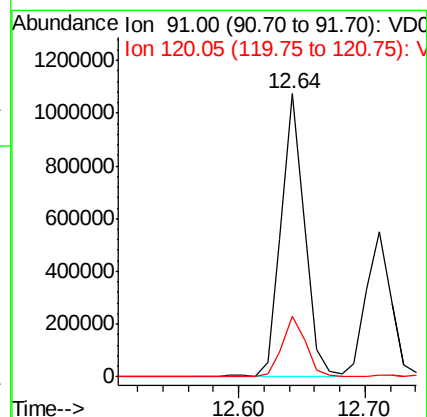
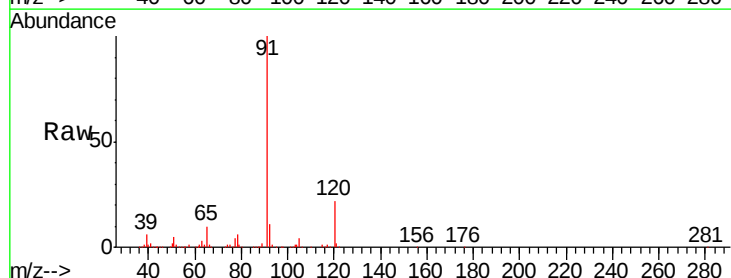
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

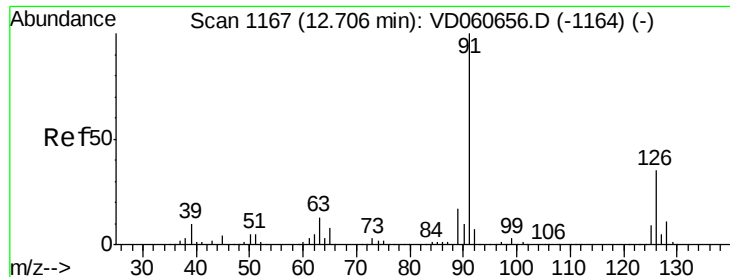
Tgt Ion: 156 Resp: 279084
Ion Ratio Lower Upper
156 100
77 129.4 61.3 183.9
158 97.7 48.9 146.6



#78
n-propylbenzene
Concen: 20.326 ug/l
RT: 12.64 min Scan# 1160
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 91 Resp: 1388787
Ion Ratio Lower Upper
91 100
120 21.6 10.4 31.2





#79

2-Chlorotoluene

Concen: 20.544 ug/l

RT: 12.71 min Scan# 1167

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

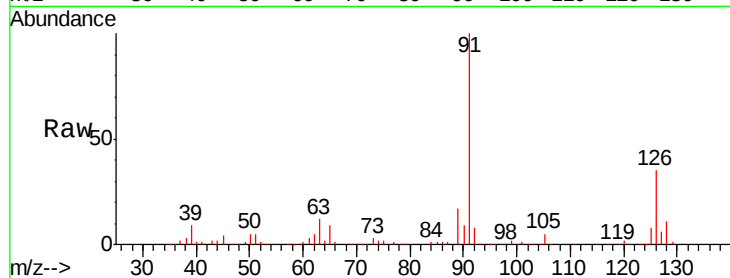
VD1228SBS01

Tgt Ion: 91 Resp: 751832

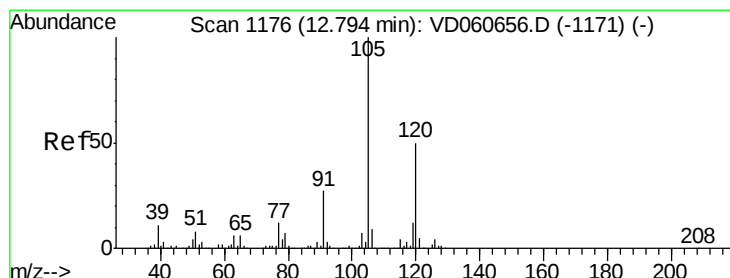
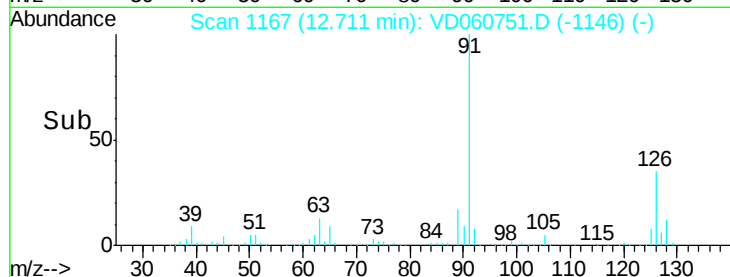
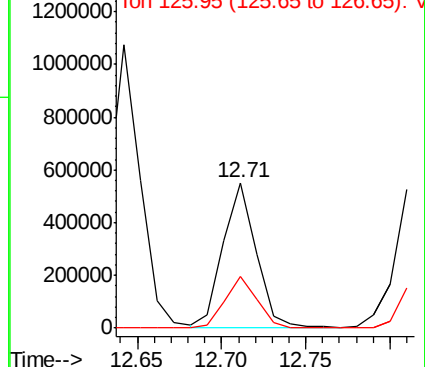
Ion Ratio Lower Upper

91 100

126 35.1 17.2 51.5



Abundance Ion 91.00 (90.70 to 91.70): VD060751.D (-1164) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.041 ug/l

RT: 12.80 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VD060751.D

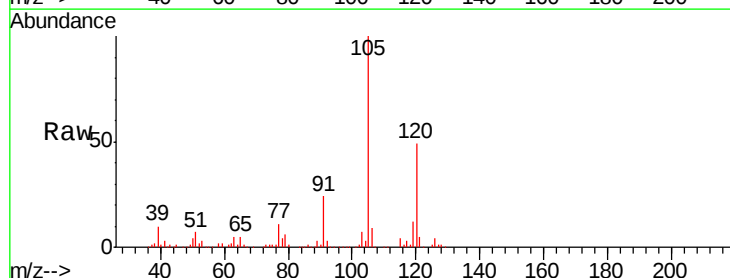
Acq: 28 Dec 2018 17:27

Tgt Ion: 105 Resp: 909628

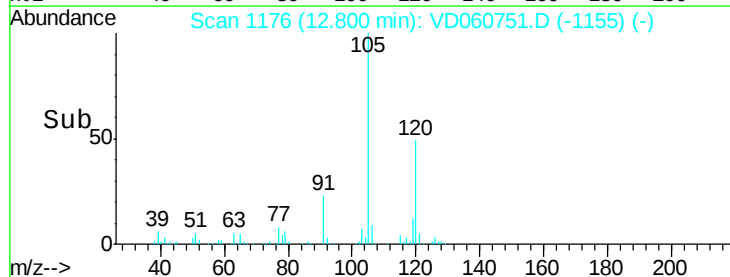
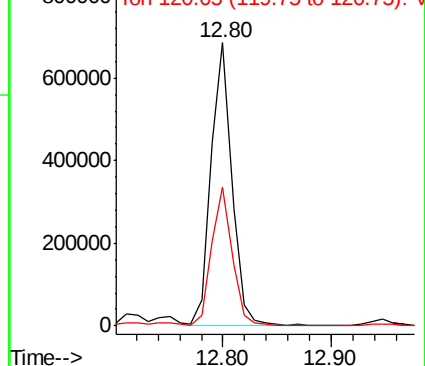
Ion Ratio Lower Upper

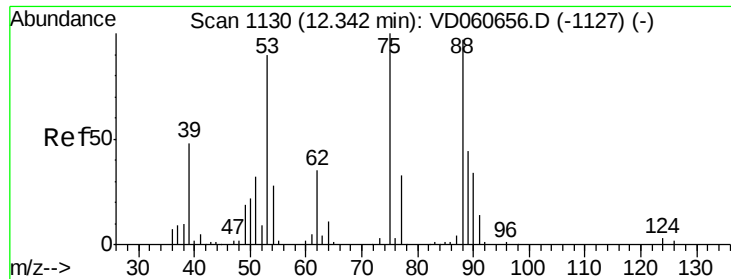
105 100

120 48.9 24.8 74.4



Abundance Ion 105.05 (104.75 to 105.75): VD060751.D (-1155) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 18.039 ug/l

RT: 12.35 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBS01

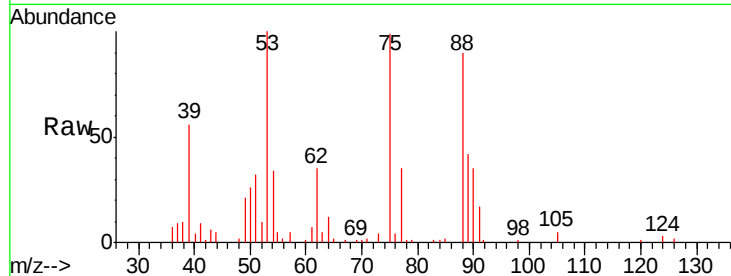
Tgt Ion: 75 Resp: 42600

Ion Ratio Lower Upper

75 100

53 100.6 72.1 108.1

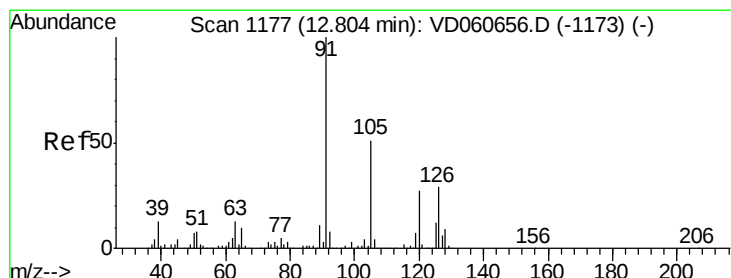
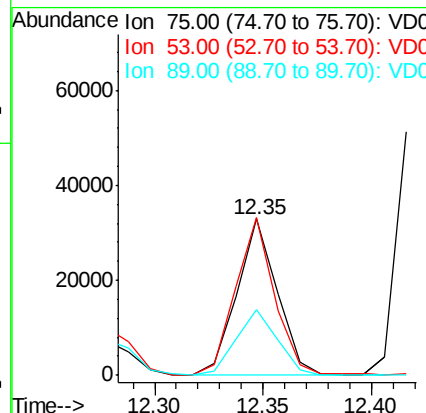
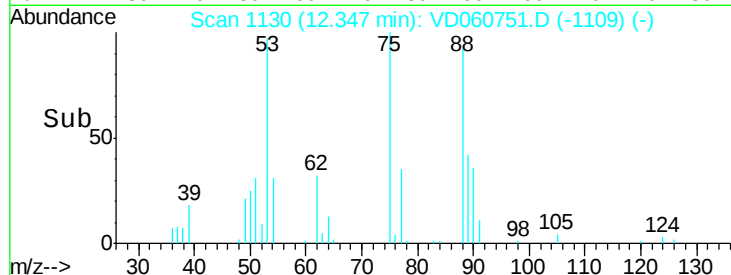
89 41.8 35.1 52.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 20.115 ug/l

RT: 12.81 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VD060751.D

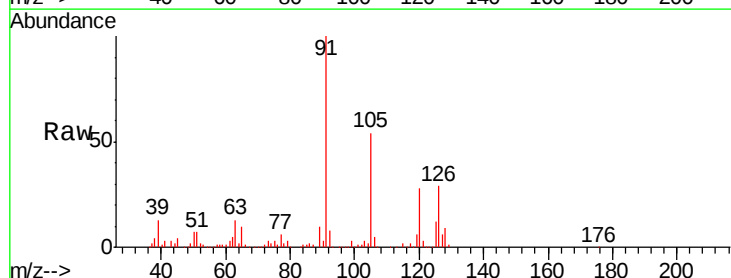
Acq: 28 Dec 2018 17:27

Tgt Ion: 91 Resp: 834375

Ion Ratio Lower Upper

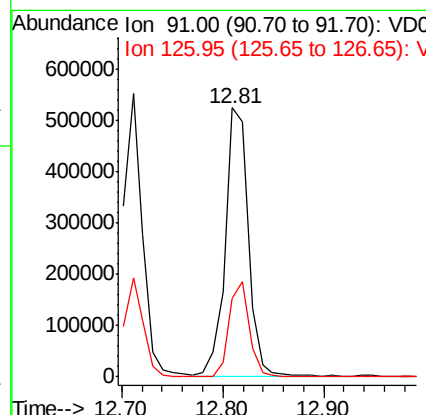
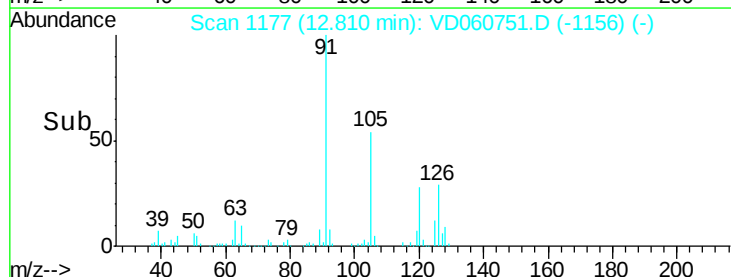
91 100

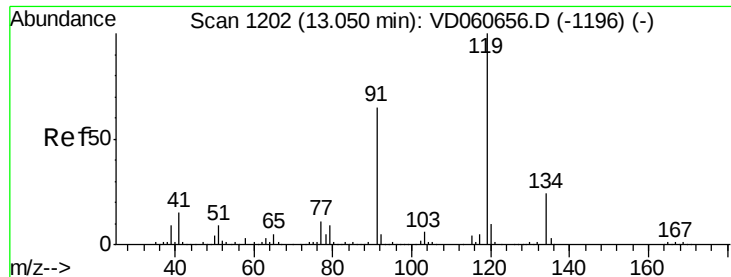
126 29.2 14.6 43.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

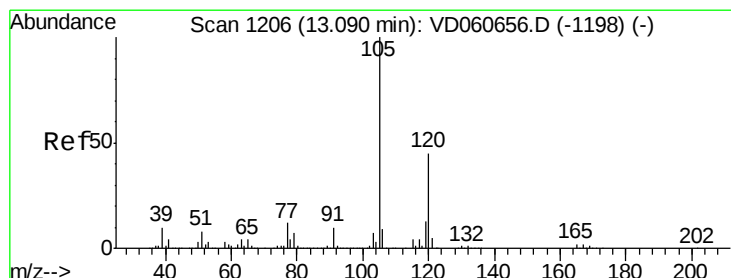
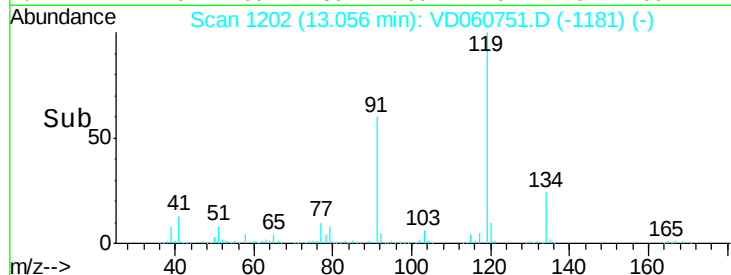
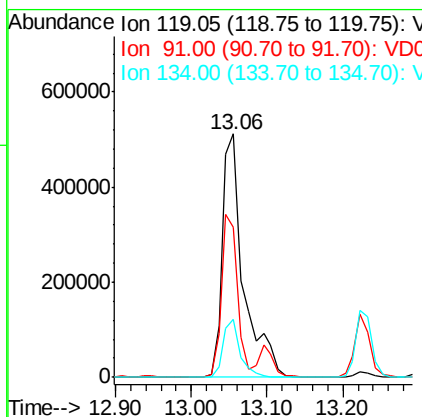
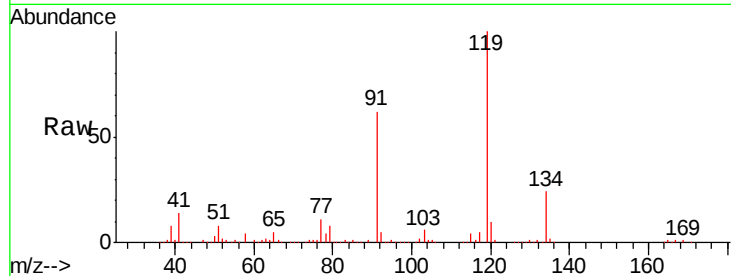




#83
 tert-Butylbenzene
 Concen: 21.348 ug/l
 RT: 13.06 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

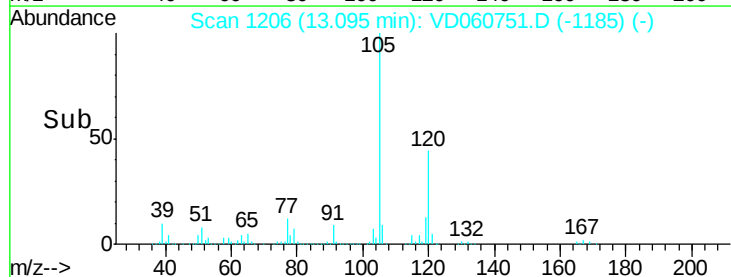
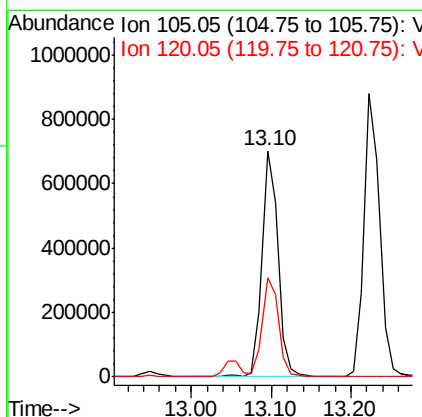
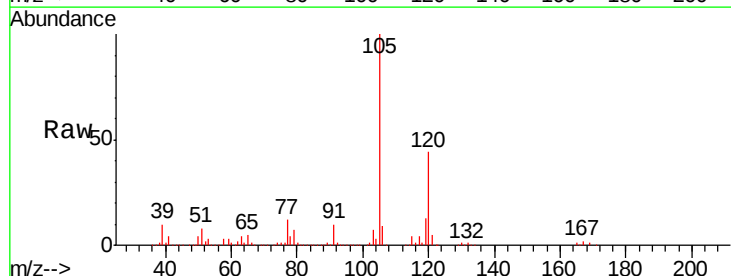
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

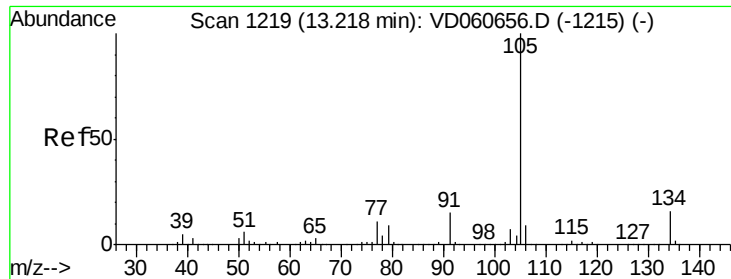
Tgt Ion:119 Resp: 1002650
 Ion Ratio Lower Upper
 119 100
 91 61.8 32.5 97.4
 134 23.6 11.9 35.9



#84
 1,2,4-Trimethylbenzene
 Concen: 22.443 ug/l
 RT: 13.10 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion:105 Resp: 953929
 Ion Ratio Lower Upper
 105 100
 120 43.6 22.4 67.0

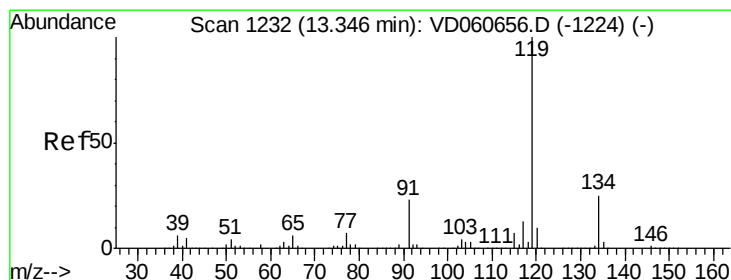
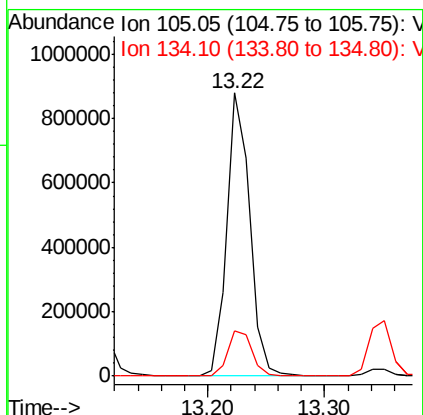
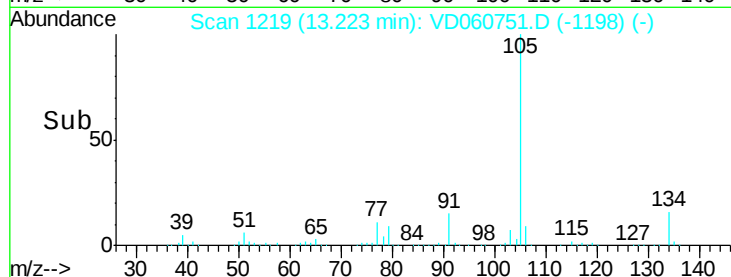
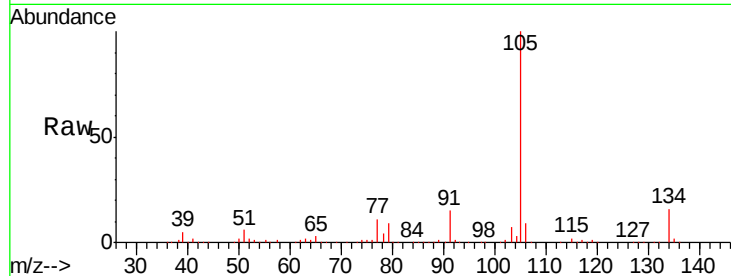




#85
 sec-Butylbenzene
 Concen: 20.831 ug/l
 RT: 13.22 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

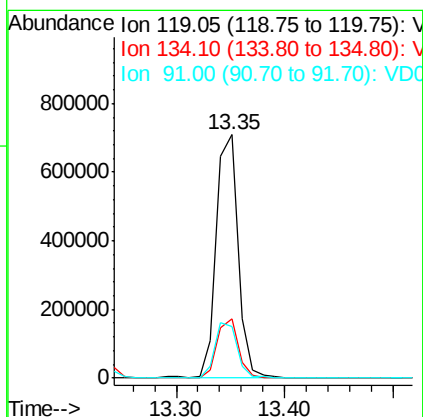
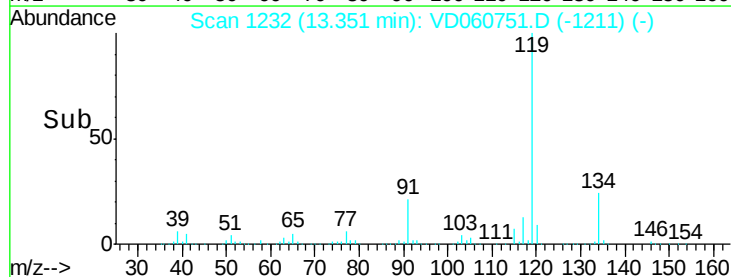
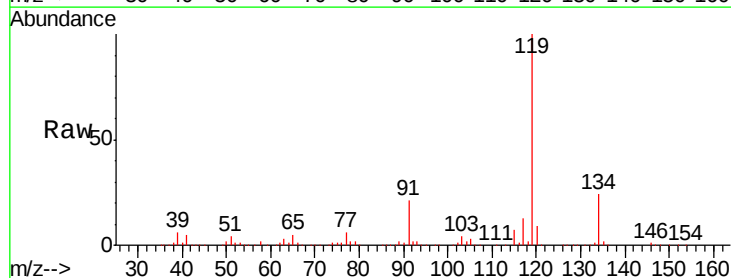
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

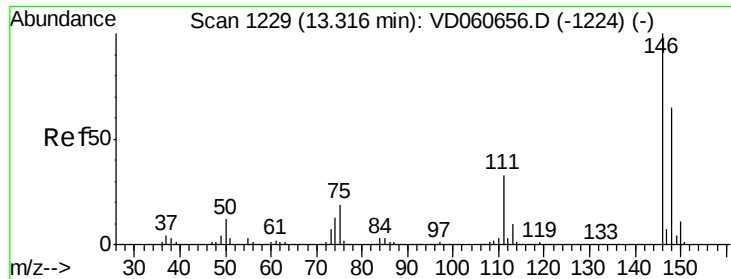
Tgt Ion:105 Resp: 1193183
 Ion Ratio Lower Upper
 105 100
 134 15.9 8.2 24.4



#86
 p-Isopropyltoluene
 Concen: 21.360 ug/l
 RT: 13.35 min Scan# 1232
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion:119 Resp: 987630
 Ion Ratio Lower Upper
 119 100
 134 24.3 12.5 37.5
 91 21.1 11.4 34.2

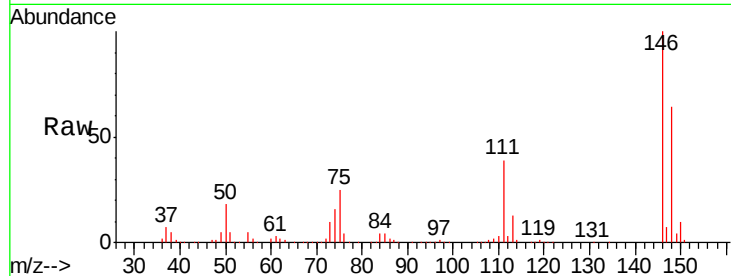




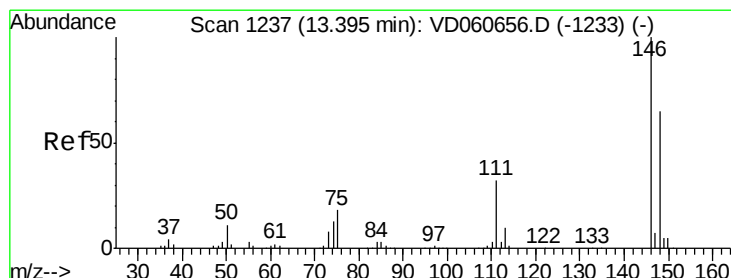
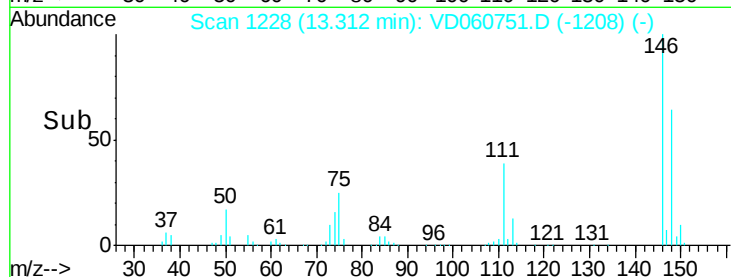
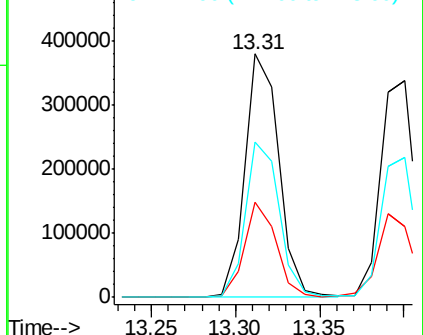
#87
 1,3-Dichlorobenzene
 Concen: 20.419 ug/l
 RT: 13.31 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

Tgt Ion:146 Resp: 528904
 Ion Ratio Lower Upper
 146 100
 111 38.9 16.6 49.8
 148 63.6 32.6 97.8

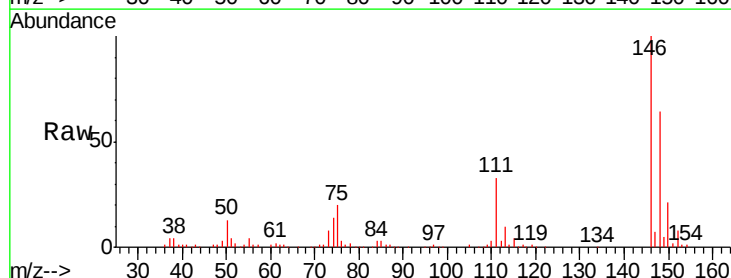


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

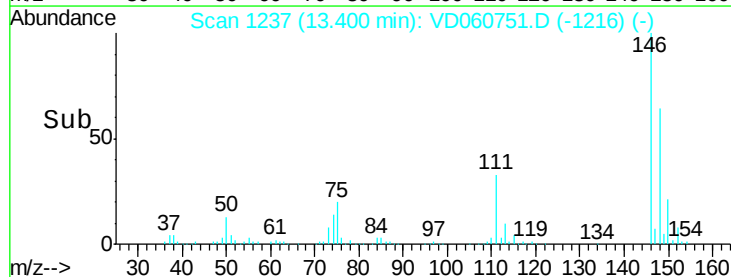
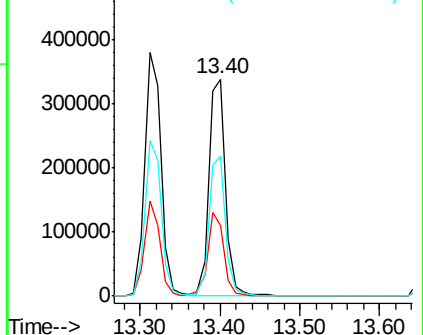


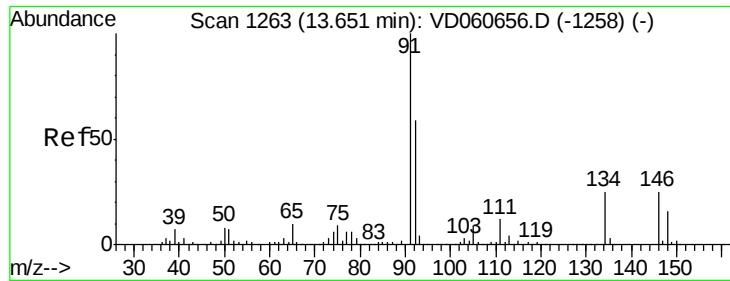
#88
 1,4-Dichlorobenzene
 Concen: 19.328 ug/l
 RT: 13.40 min Scan# 1237
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion:146 Resp: 493343
 Ion Ratio Lower Upper
 146 100
 111 32.7 16.2 48.5
 148 64.3 32.7 98.1



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

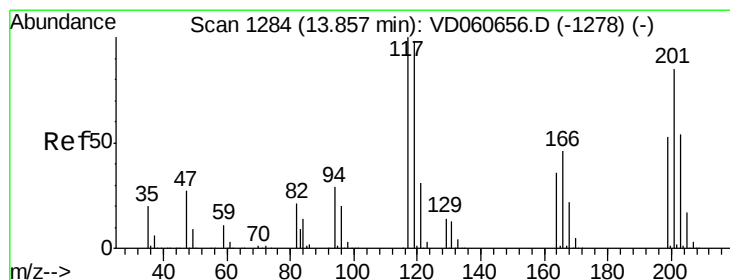
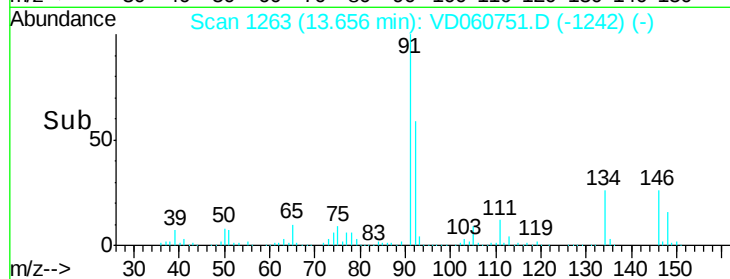
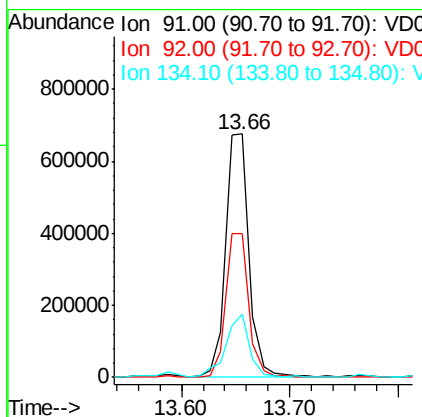
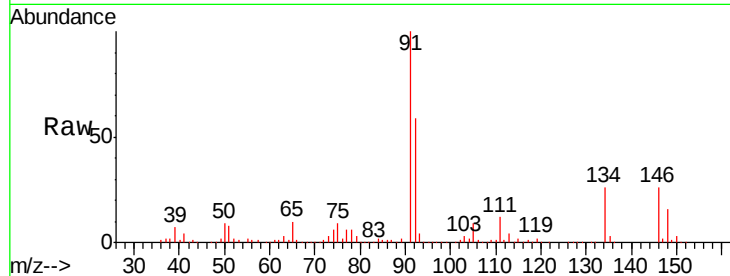




#89
n-Butylbenzene
Concen: 21.229 ug/l
RT: 13.66 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

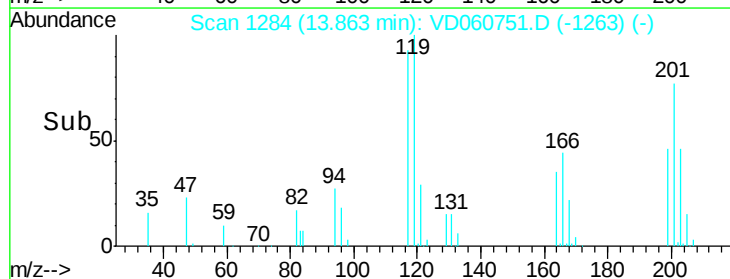
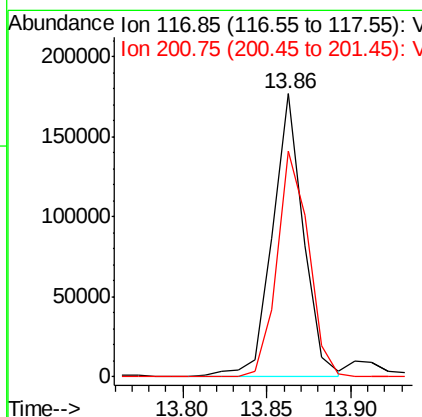
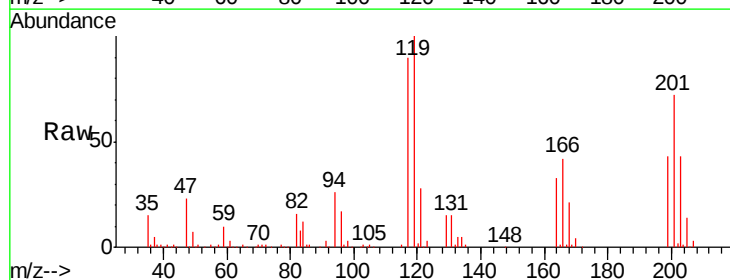
Instrument :
MSVOA_D
ClientSampleId :
VD1228SBSD01

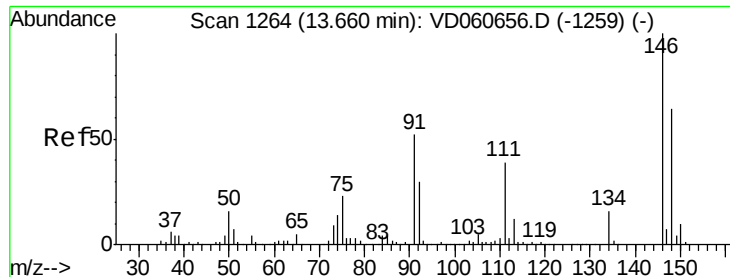
Tgt Ion: 91 Resp: 1003037
Ion Ratio Lower Upper
91 100
92 59.0 29.7 89.1
134 25.8 12.7 38.1



#90
Hexachloroethane
Concen: 19.672 ug/l
RT: 13.86 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD060751.D
Acq: 28 Dec 2018 17:27

Tgt Ion: 117 Resp: 223444
Ion Ratio Lower Upper
117 100
201 79.6 42.6 127.8

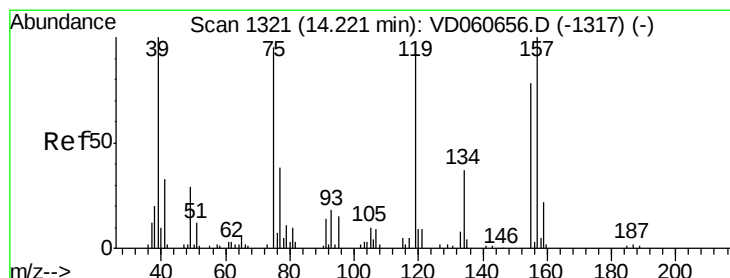
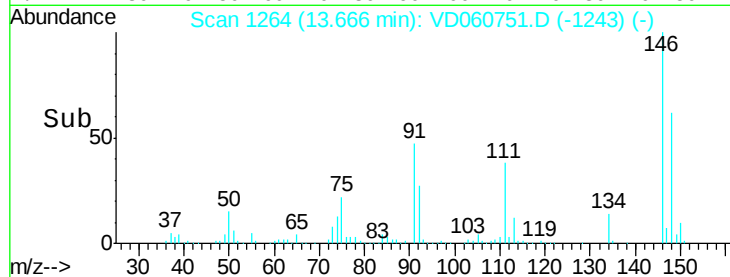
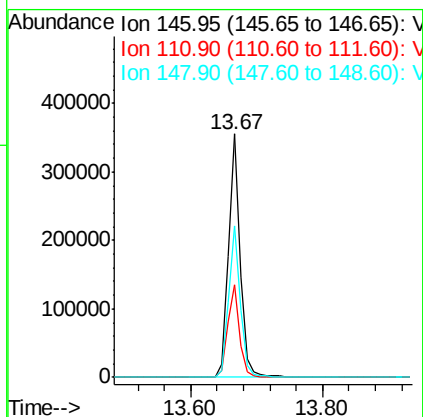
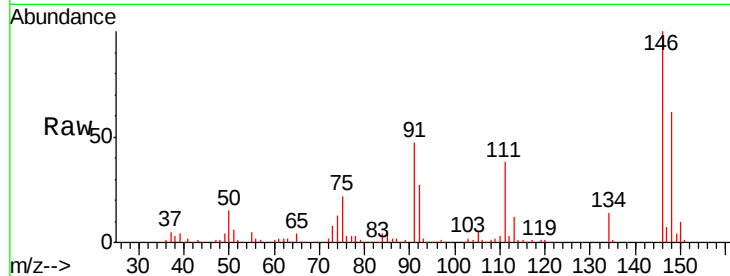




#91
 1,2-Dichlorobenzene
 Concen: 21.098 ug/l
 RT: 13.67 min Scan# 1264
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

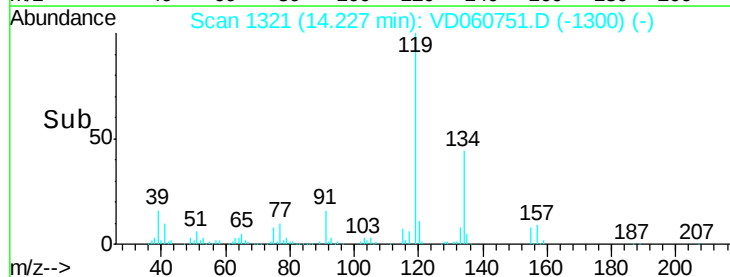
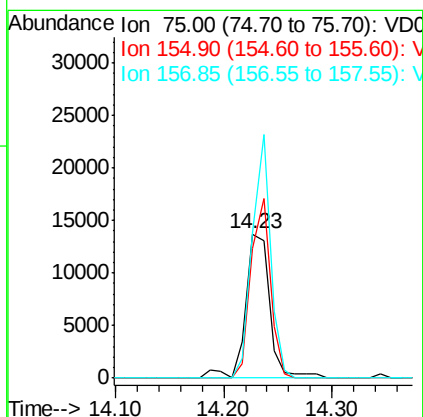
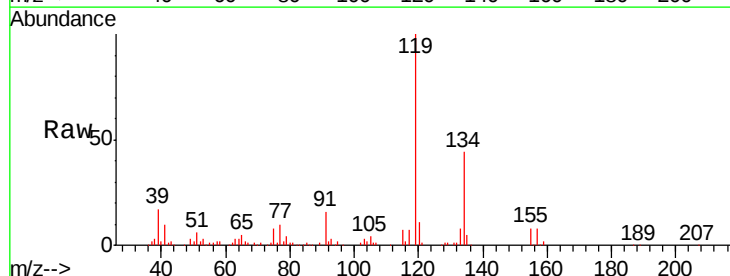
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBSD01

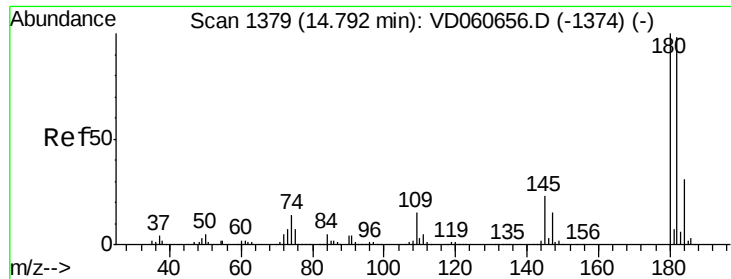
Tgt Ion:146 Resp: 438374
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.3 57.9
 148 62.3 31.9 95.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.967 ug/l
 RT: 14.23 min Scan# 1321
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion: 75 Resp: 21339
 Ion Ratio Lower Upper
 75 100
 155 90.2 41.1 123.4
 157 101.1 52.5 157.6

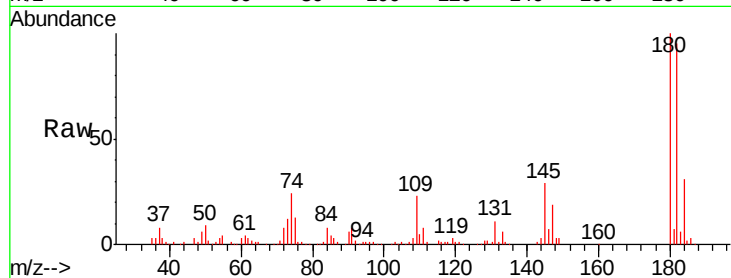




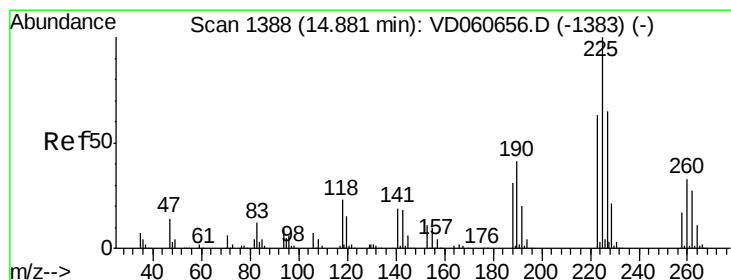
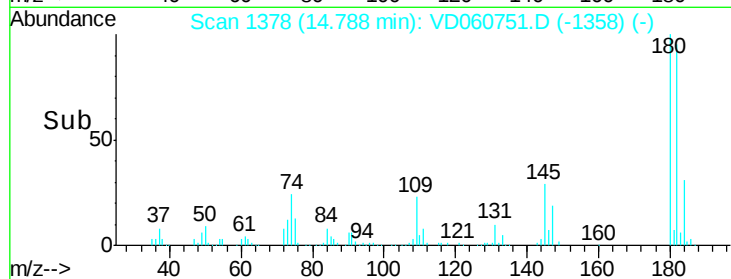
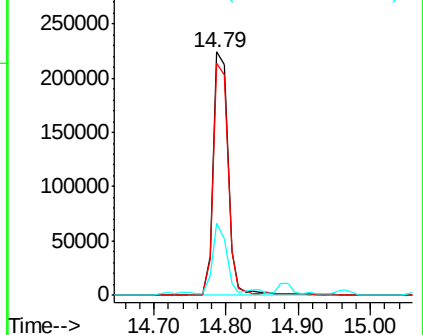
#93
 1,2,4-Trichlorobenzene
 Concen: 19.489 ug/l
 RT: 14.79 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1228SBS01

Tgt Ion:180 Resp: 322225
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.8 146.4
 145 29.4 11.8 35.3

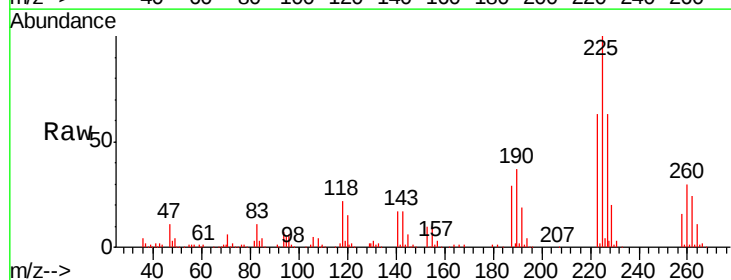


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

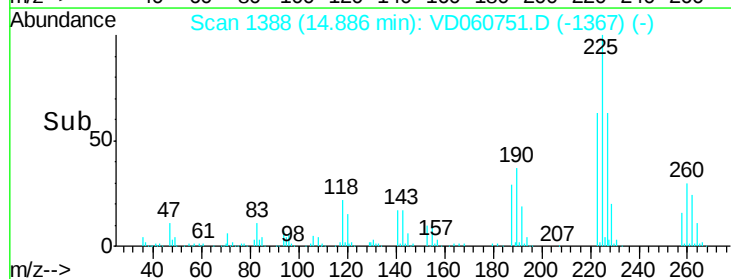
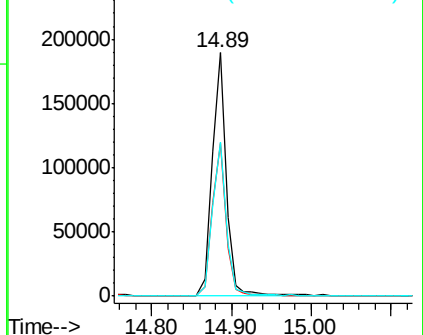


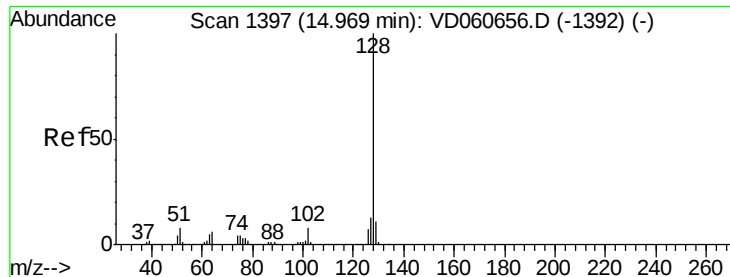
#94
 Hexachlorobutadiene
 Concen: 19.517 ug/l
 RT: 14.89 min Scan# 1388
 Delta R.T. 0.01 min
 Lab File: VD060751.D
 Acq: 28 Dec 2018 17:27

Tgt Ion:225 Resp: 238521
 Ion Ratio Lower Upper
 225 100
 223 62.9 31.3 93.8
 227 63.0 32.5 97.4



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: 20.702 ug/l

RT: 14.97 min Scan# 1397

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

Instrument :

MSVOA_D

ClientSampleId :

VD1228SBSD01

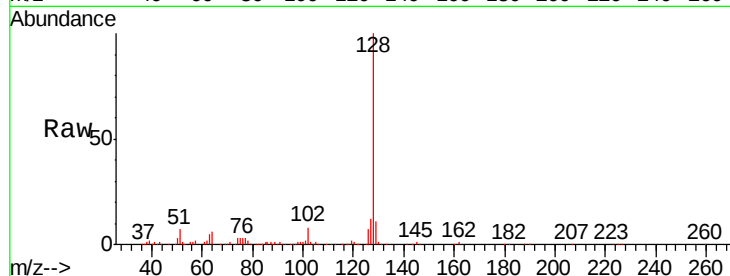
Tgt Ion:128 Resp: 406809

Ion Ratio Lower Upper

128 100

127 12.2 10.1 15.1

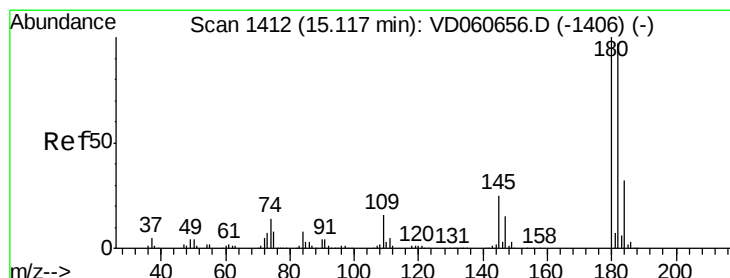
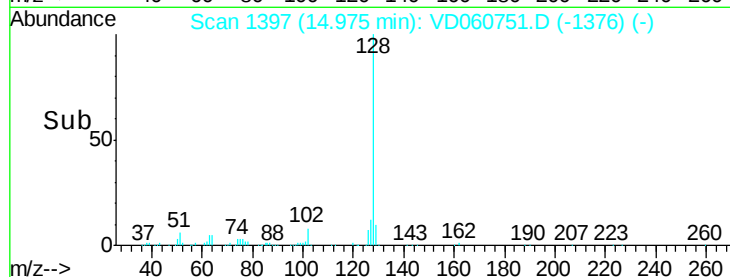
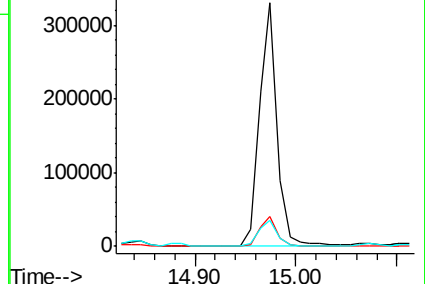
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.545 ug/l

RT: 15.12 min Scan# 1412

Delta R.T. 0.01 min

Lab File: VD060751.D

Acq: 28 Dec 2018 17:27

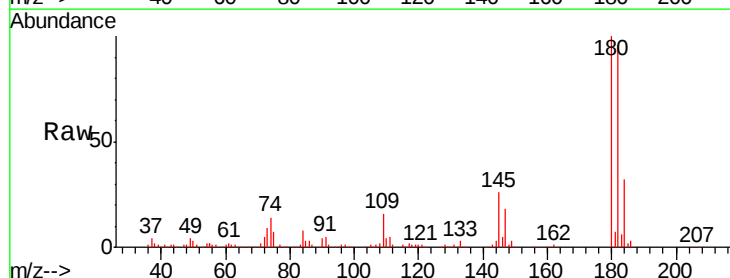
Tgt Ion:180 Resp: 252620

Ion Ratio Lower Upper

180 100

182 96.3 48.6 145.9

145 25.7 12.6 37.8



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

