

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
 Data File : VD062519.D
 Acq On : 23 May 2019 13:54
 Operator : VA/AP
 Sample : VD0523SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 24 01:20:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	584732	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	781685	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	645586	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	343600	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	264701	42.29	ug/l	-0.03
Spiked Amount			Recovery	=	84.58%	
35) Dibromofluoromethane	6.92	113	313330	44.43	ug/l	-0.03
Spiked Amount			Recovery	=	88.86%	
50) Toluene-d8	10.40	98	705908	45.74	ug/l	-0.03
Spiked Amount			Recovery	=	91.48%	
62) 4-Bromofluorobenzene	13.55	95	309942	45.91	ug/l	-0.02
Spiked Amount			Recovery	=	91.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	131284	21.025	ug/l	95
3) Chloromethane	1.74	50	87443	21.587	ug/l	98
4) Vinyl Chloride	1.84	62	91801	21.537	ug/l	98
5) Bromomethane	2.14	94	33374	18.145	ug/l	95
6) Chloroethane	2.24	64	41290	20.024	ug/l	91
7) Trichlorofluoromethane	2.52	101	187968	19.085	ug/l	99
8) Diethyl Ether	2.86	74	23744	17.872	ug/l	54
9) 1,1,2-Trichlorotrifluoroet	3.14	101	111607	19.048	ug/l	93
10) Methyl Iodide	3.29	142	187685	22.972	ug/l	91
11) Tert butyl alcohol	4.07	59	25302	87.576	ug/l #	94
12) 1,1-Dichloroethene	3.11	96	77420	17.878	ug/l	86
13) Acrolein	3.02	56	21263	88.622	ug/l	94
14) Allyl chloride	3.61	41	125964	19.728	ug/l #	83
15) Acrylonitrile	4.19	53	63873	96.481	ug/l #	84
16) Acetone	3.22	43	103338	92.132	ug/l #	90
17) Carbon Disulfide	3.37	76	286476	21.844	ug/l	100
18) Methyl Acetate	3.63	43	36665	18.944	ug/l	98
19) Methyl tert-butyl Ether	4.23	73	200143	20.011	ug/l	93
20) Methylene Chloride	3.80	84	101485	17.089	ug/l	98
21) trans-1,2-Dichloroethene	4.20	96	102973	20.312	ug/l	91
22) Diisopropyl ether	5.11	45	273088	20.094	ug/l	93
23) Vinyl Acetate	5.05	43	772388	94.054	ug/l	98
24) 1,1-Dichloroethane	4.97	63	178076	20.345	ug/l	98
25) 2-Butanone	6.06	43	108502	92.490	ug/l	98
26) 2,2-Dichloropropane	6.01	77	190779	20.220	ug/l	90
27) cis-1,2-Dichloroethene	6.02	96	110423	20.200	ug/l	94
28) Bromochloromethane	6.43	49	57960	18.450	ug/l	94
29) Tetrahydrofuran	6.45	42	52448	93.612	ug/l	96
30) Chloroform	6.65	83	206728	18.526	ug/l	98
31) Cyclohexane	6.94	56	125908	21.305	ug/l	98
32) 1,1,1-Trichloroethane	6.86	97	209758	18.619	ug/l	98
36) 1,1-Dichloropropene	7.13	75	150273	20.108	ug/l	93
37) Ethyl Acetate	6.17	43	60658	20.893	ug/l #	93
38) Carbon Tetrachloride	7.09	117	215224	19.377	ug/l	98

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 ClientSampleId :

Quant Time: May 24 01:20:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	135565	21.993	ug/l	94
40) Benzene	7.44	78	305241	20.822	ug/l	98
41) Methacrylonitrile	6.44	41	69492	19.058	ug/l #	86
42) 1,2-Dichloroethane	7.57	62	140435	18.091	ug/l	92
43) Isopropyl Acetate	9.23	43	71435	18.547	ug/l	92
44) Trichloroethene	8.53	130	130061	22.159	ug/l	99
45) 1,2-Dichloropropane	8.93	63	72705	20.352	ug/l	99
46) Dibromomethane	9.05	93	61294	18.928	ug/l	90
47) Bromodichloromethane	9.37	83	158099	19.192	ug/l	99
48) Methyl methacrylate	9.11	41	50150	19.349	ug/l	92
49) 1,4-Dioxane	9.07	88	9637	414.522	ug/l #	84
51) 4-Methyl-2-Pentanone	10.29	43	252819	99.362	ug/l	93
52) Toluene	10.50	92	208569	20.783	ug/l	95
53) t-1,3-Dichloropropene	10.90	75	140144	20.434	ug/l	98
54) cis-1,3-Dichloropropene	10.03	75	144844	20.240	ug/l #	90
55) 1,1,2-Trichloroethane	11.18	97	66209	19.466	ug/l	96
56) Ethyl methacrylate	11.04	69	74661	20.534	ug/l #	94
57) 1,3-Dichloropropane	11.40	76	96901	18.577	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.85	63	187028	100.173	ug/l	96
59) 2-Hexanone	11.52	43	176608	95.504	ug/l	98
60) Dibromochloromethane	11.68	129	123188	18.857	ug/l	98
61) 1,2-Dibromoethane	11.80	107	84666	20.199	ug/l	98
64) Tetrachloroethene	11.25	164	112014	20.722	ug/l	98
65) Chlorobenzene	12.40	112	260245	20.962	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	124800	21.777	ug/l	94
67) Ethyl Benzene	12.52	91	481860	22.534	ug/l	98
68) m/p-Xylenes	12.66	106	332179	43.275	ug/l	90
69) o-Xylene	13.05	106	145435	20.081	ug/l	95
70) Styrene	13.07	104	257378	20.890	ug/l	96
71) Bromoform	13.24	173	77291	20.308	ug/l #	97
73) Isopropylbenzene	13.40	105	462843	21.370	ug/l	98
74) N-amyl acetate	13.26	43	102749	19.208	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	74779	19.138	ug/l	96
76) 1,2,3-Trichloropropane	13.73	75	82067	20.277	ug/l	100
77) Bromobenzene	13.67	156	135659	22.080	ug/l	98
78) n-propylbenzene	13.77	91	560208	22.330	ug/l	95
79) 2-Chlorotoluene	13.84	91	301771	19.821	ug/l	96
80) 1,3,5-Trimethylbenzene	13.93	105	400646	21.364	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.47	75	23793	20.845	ug/l #	84
82) 4-Chlorotoluene	13.94	91	368112	20.995	ug/l	92
83) tert-Butylbenzene	14.19	119	447680	21.522	ug/l	97
84) 1,2,4-Trimethylbenzene	14.24	105	401586	20.899	ug/l	98
85) sec-Butylbenzene	14.37	105	489444	22.565	ug/l	98
86) p-Isopropyltoluene	14.49	119	441462	22.459	ug/l	93
87) 1,3-Dichlorobenzene	14.46	146	239937	22.114	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	227291	21.709	ug/l	94
89) n-Butylbenzene	14.80	91	401993	21.191	ug/l	97
90) Hexachloroethane	15.01	117	115091	21.187	ug/l	80
91) 1,2-Dichlorobenzene	14.81	146	201165	21.804	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	14668	19.777	ug/l	88

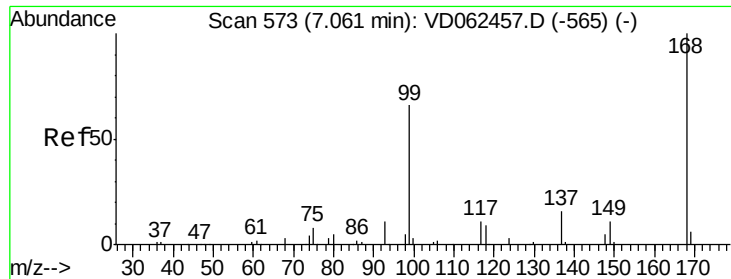
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052319\
Data File : VD062519.D
Acq On : 23 May 2019 13:54
Operator : VA/AP
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Quant Time: May 24 01:20:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	150429	20.707	ug/l	96
94) Hexachlorobutadiene	16.04	225	101602	18.942	ug/l	97
95) Naphthalene	16.12	128	222555	22.421	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	112888	18.956	ug/l	99

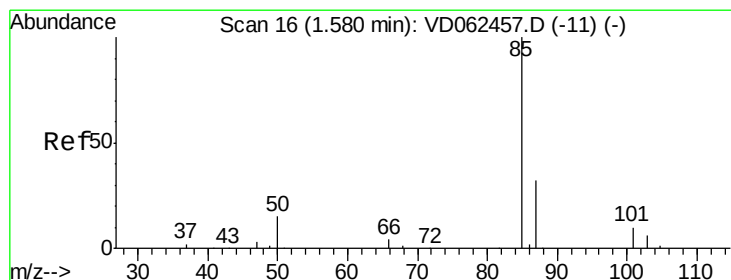
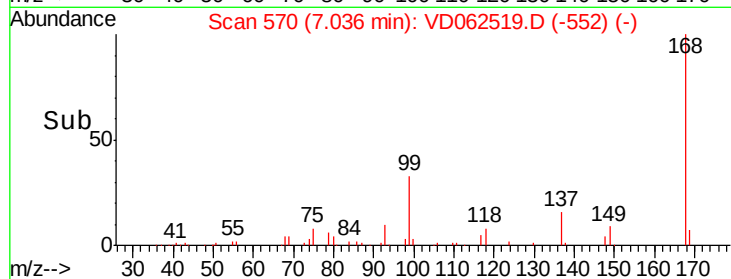
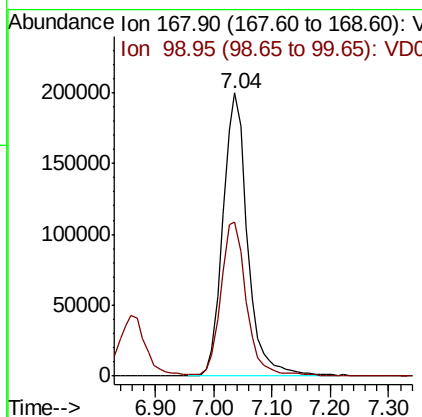
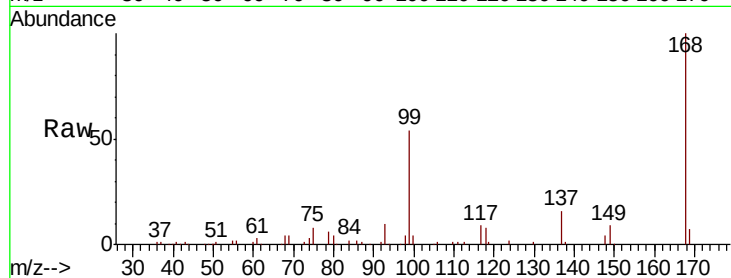
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.03 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

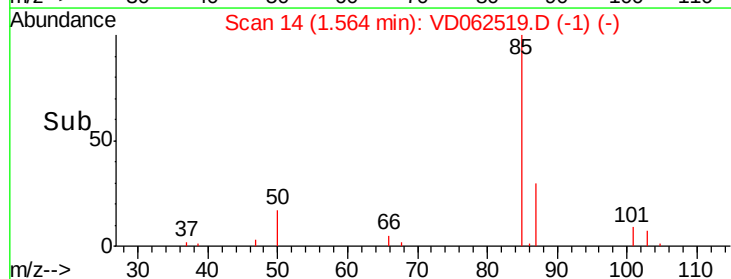
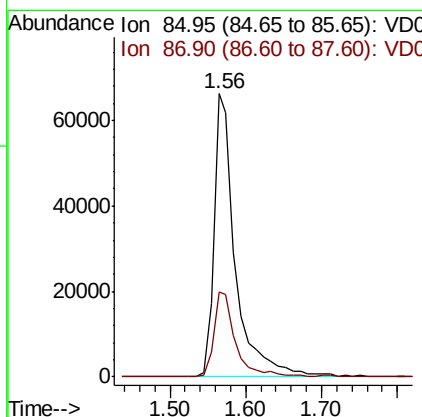
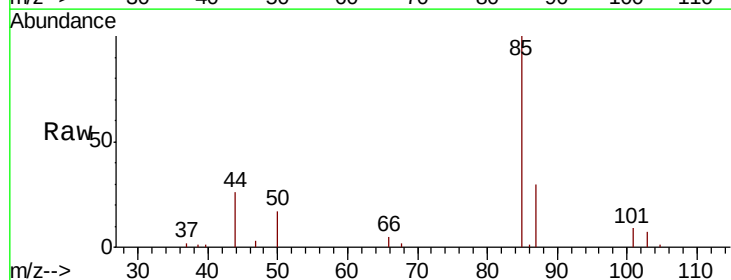
Instrument :
MSVOA_D
ClientSampled :

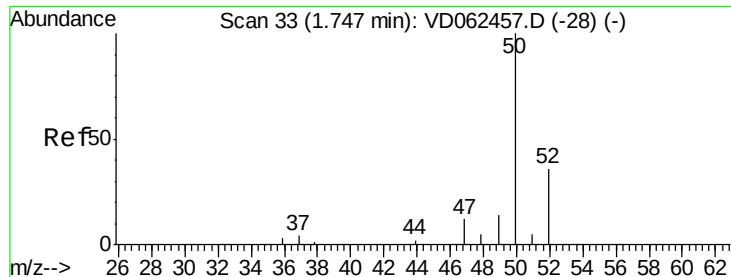
Tot Ion:168 Resp: 584732
Ion Ratio Lower Upper
168 100
99 54.2 46.5 69.7



#2
Dichlorodifluoromethane
Concen: 21.025 ug/l
RT: 1.56 min Scan# 14
Delta R.T. -0.01 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 85 Resp: 131284
Ion Ratio Lower Upper
85 100
87 29.8 16.2 48.6





#3

Chloromethane

Concen: 21.587 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

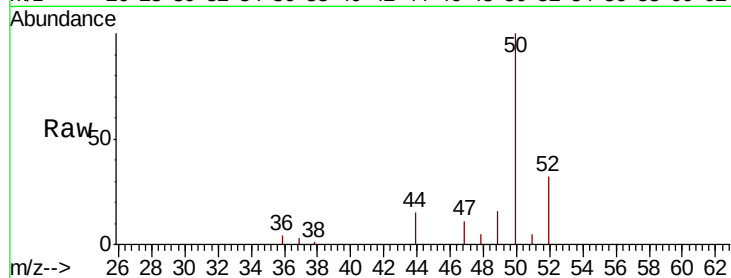
ClientSampleId :

Tot Ion: 50 Resp: 87443

Ion Ratio Lower Upper

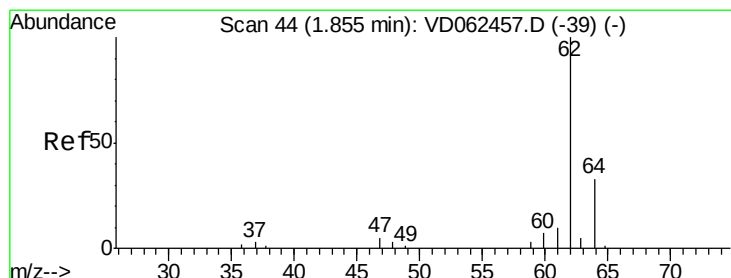
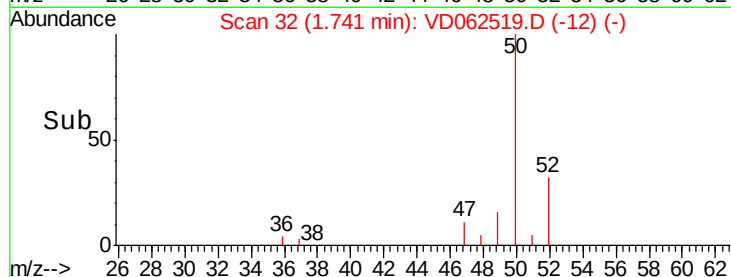
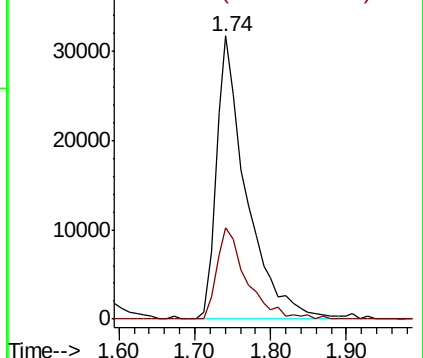
50 100

52 32.5 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.537 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.02 min

Lab File: VD062519.D

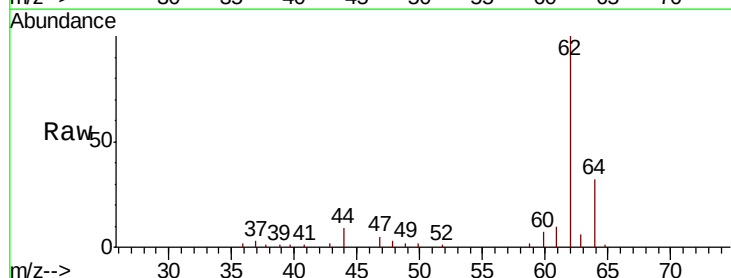
Acq: 23 May 2019 13:54

Tgt Ion: 62 Resp: 91801

Ion Ratio Lower Upper

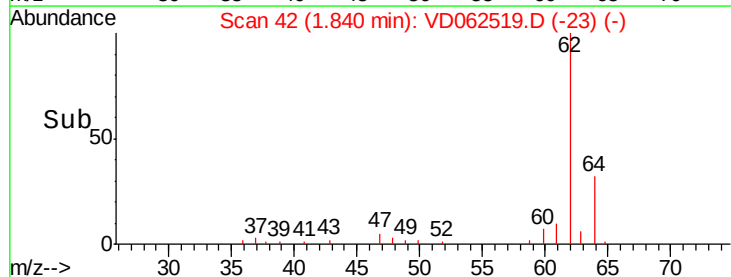
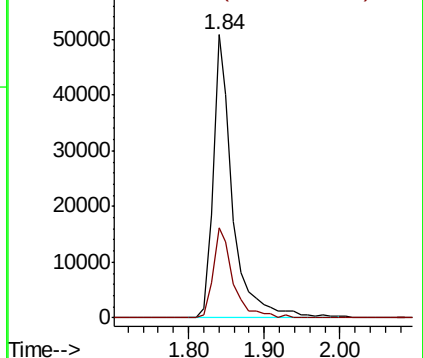
62 100

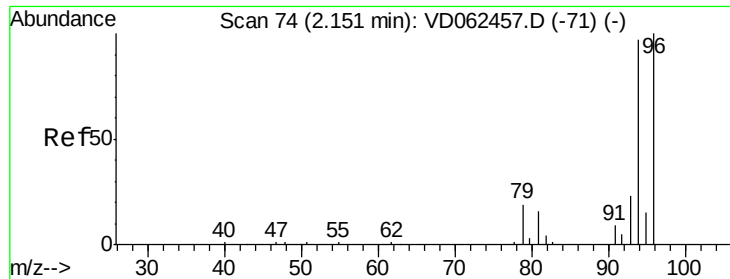
64 31.9 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.145 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

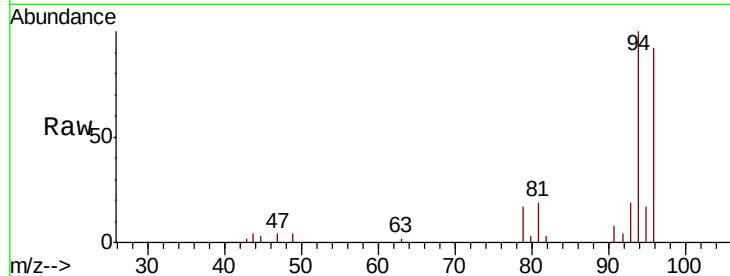
Tot Ion: 94 Resp: 33374

Ion Ratio Lower Upper

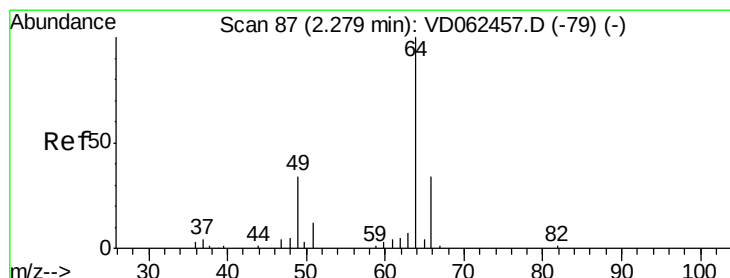
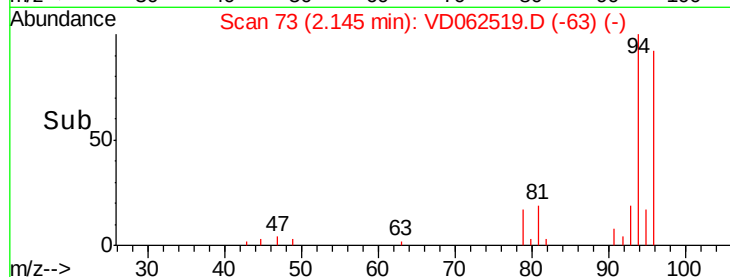
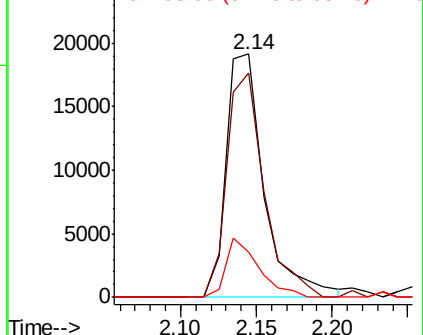
94 100

96 92.4 76.6 115.0

93 18.7 18.5 27.7



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 20.024 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.04 min

Lab File: VD062519.D

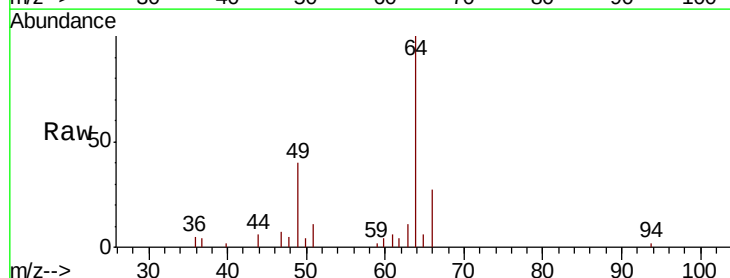
Acq: 23 May 2019 13:54

Tgt Ion: 64 Resp: 41290

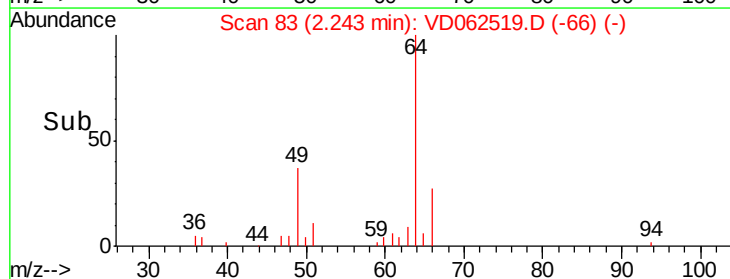
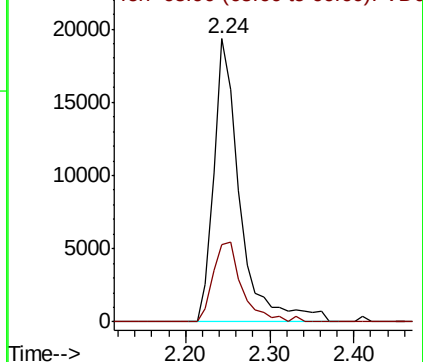
Ion Ratio Lower Upper

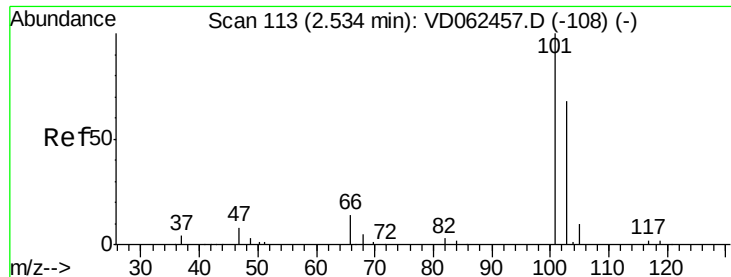
64 100

66 27.1 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



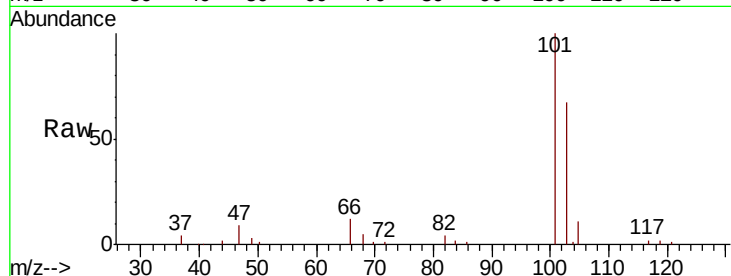


#7

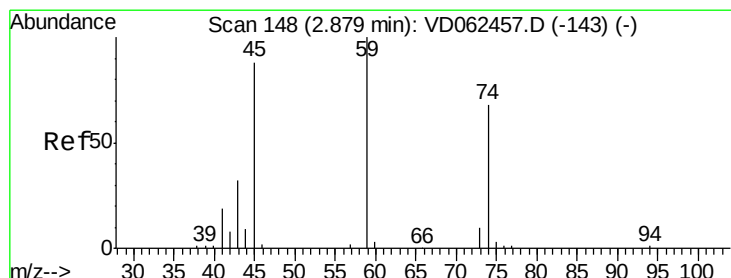
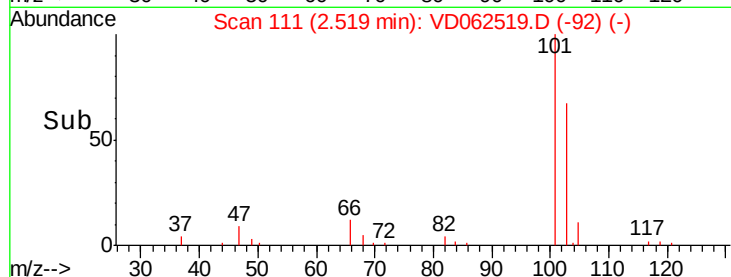
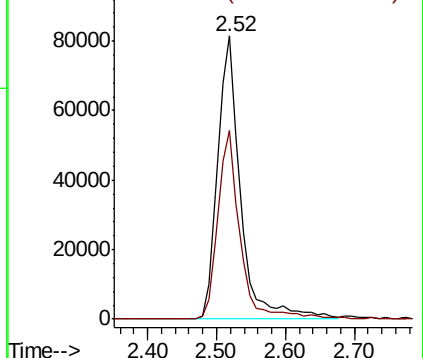
Trichlorofluoromethane
Concen: 19.085 ug/l
RT: 2.52 min Scan# 111
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:101 Resp: 187968
Ion Ratio Lower Upper
101 100
103 66.5 53.6 80.4



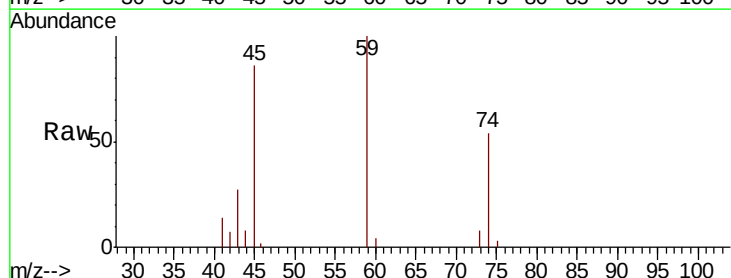
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



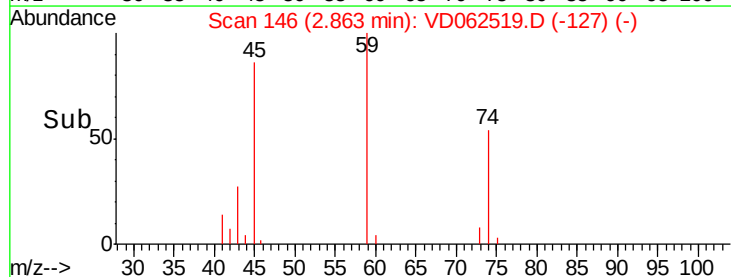
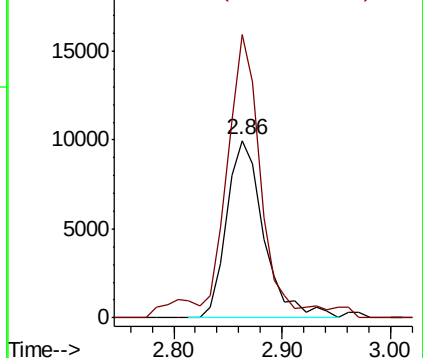
#8

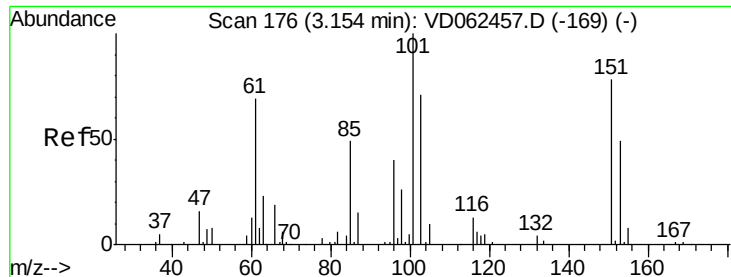
Diethyl Ether
Concen: 17.872 ug/l
RT: 2.86 min Scan# 146
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 74 Resp: 23744
Ion Ratio Lower Upper
74 100
45 163.4 56.9 170.7



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: 19.048 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

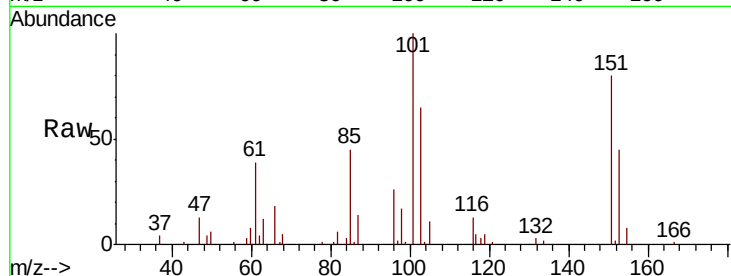
Tot Ion:101 Resp: 111607

Ion Ratio Lower Upper

101 100

85 45.4 32.4 48.6

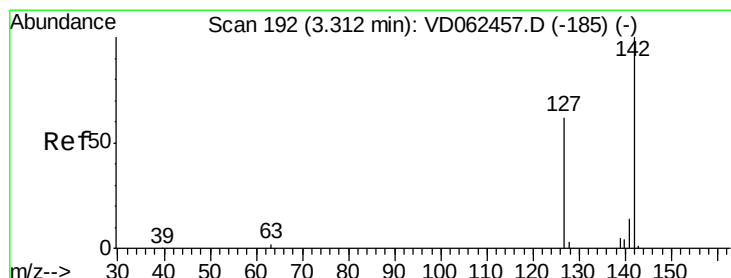
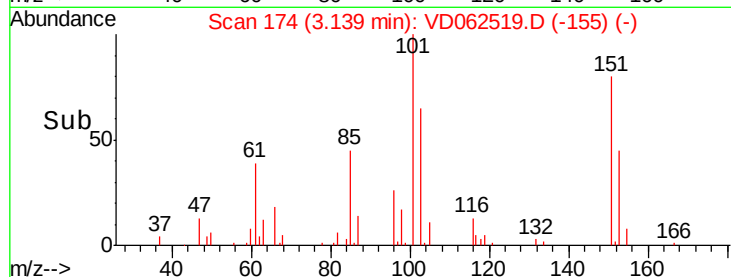
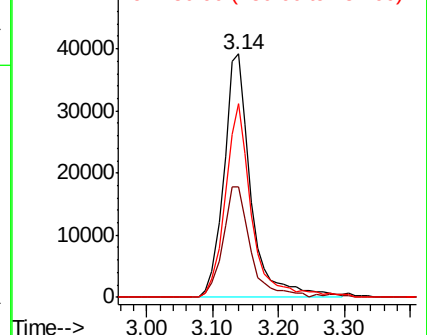
151 79.5 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 22.972 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

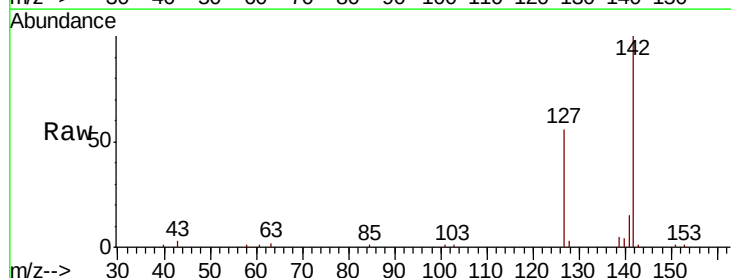
Tgt Ion:142 Resp: 187685

Ion Ratio Lower Upper

142 100

127 56.4 38.8 58.2

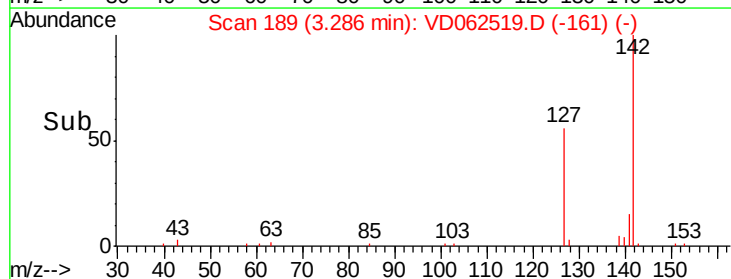
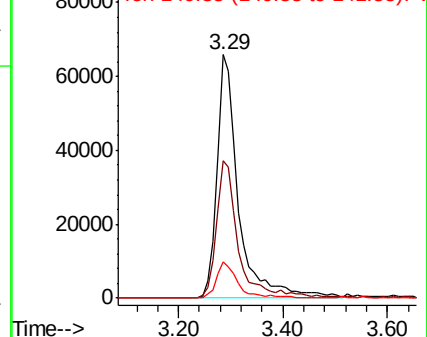
141 14.7 11.4 17.0

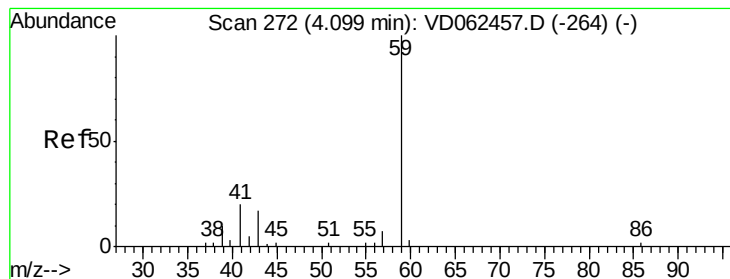


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



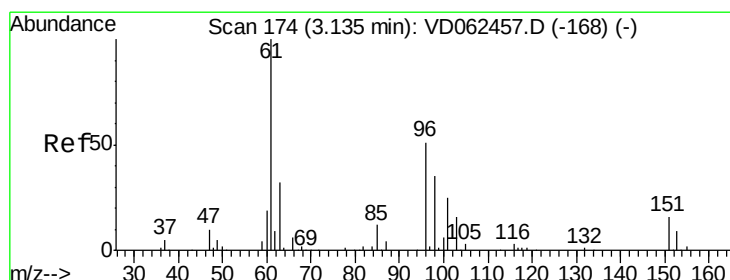
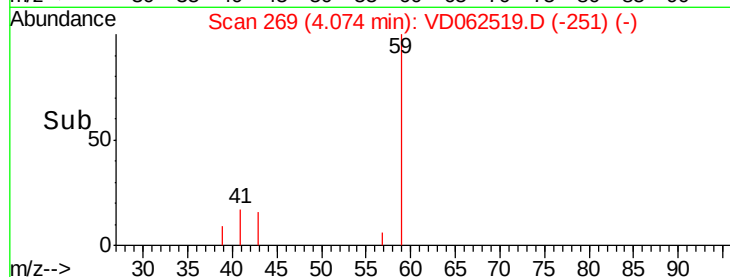
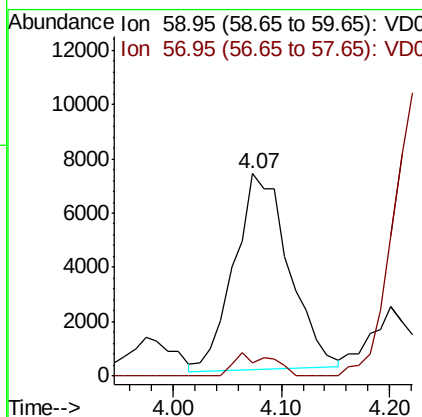
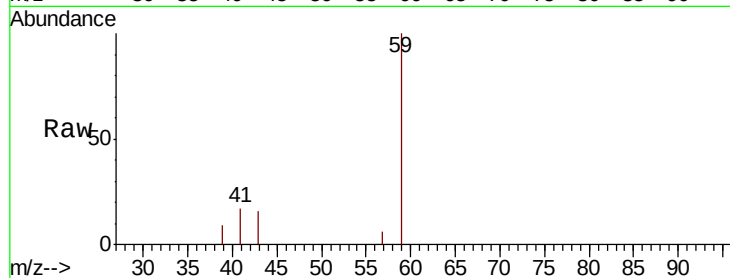


#11

Tert butyl alcohol
Concen: 87.576 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.03 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampleId :

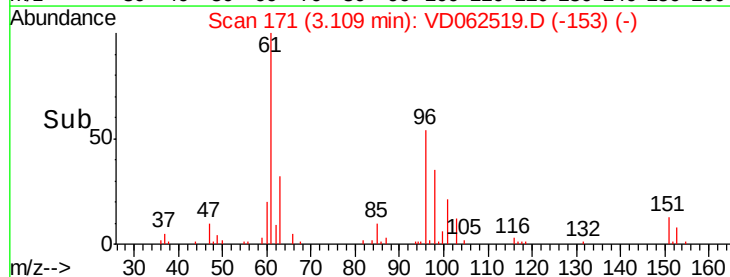
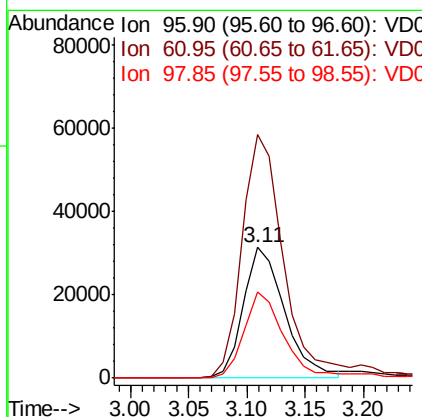
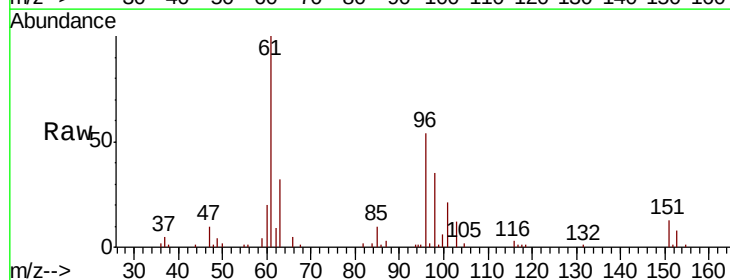
Tot Ion: 59 Resp: 25302
Ion Ratio Lower Upper
59 100
57 6.5 6.9 10.3#

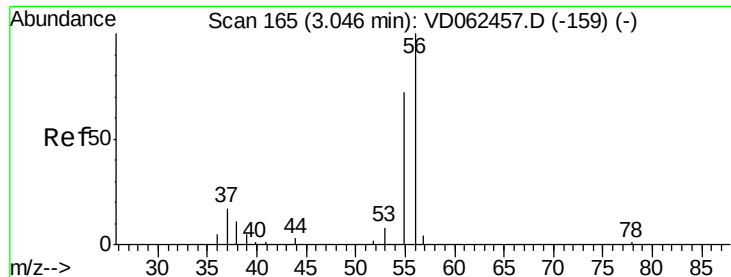


#12

1,1-Dichloroethene
Concen: 17.878 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.03 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 96 Resp: 77420
Ion Ratio Lower Upper
96 100
61 186.6 129.8 194.8
98 66.0 51.2 76.8





#13

Acrolein

Concen: 88.622 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

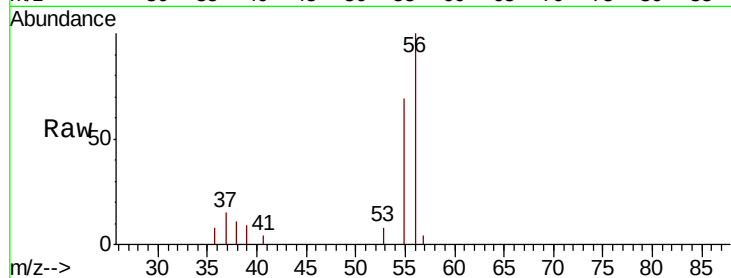
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 21263

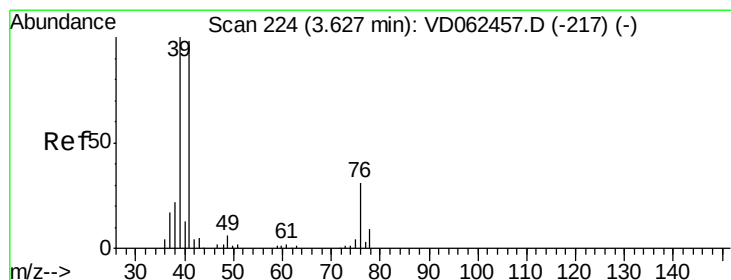
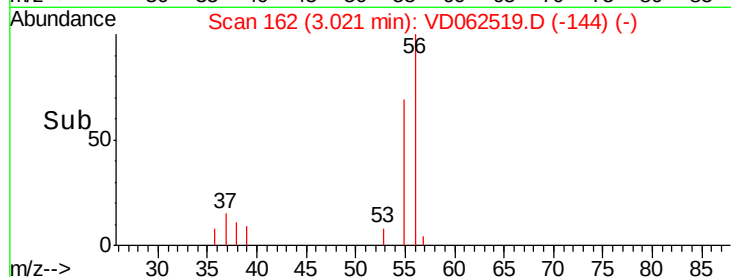
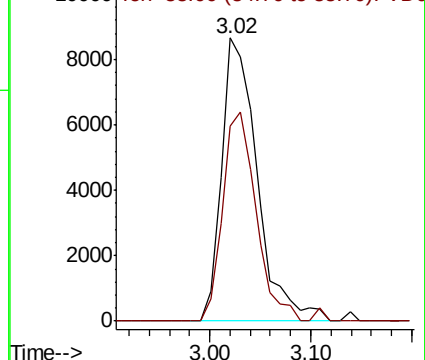
Ion Ratio Lower Upper

56 100

55 69.1 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.728 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

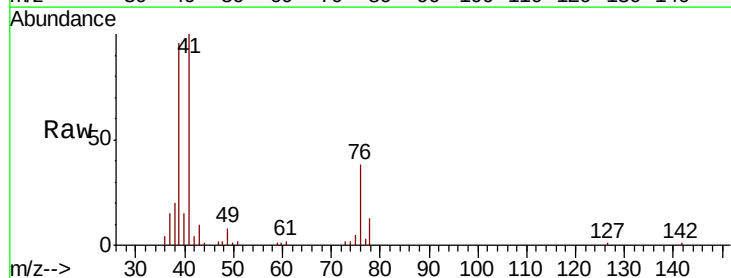
Tgt Ion: 41 Resp: 125964

Ion Ratio Lower Upper

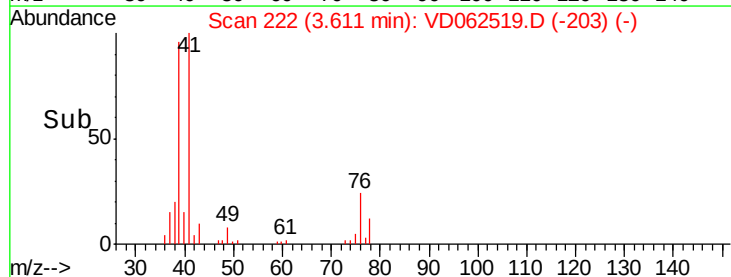
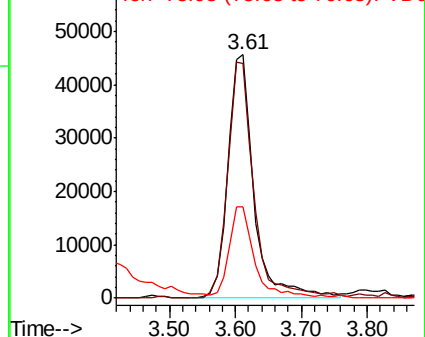
41 100

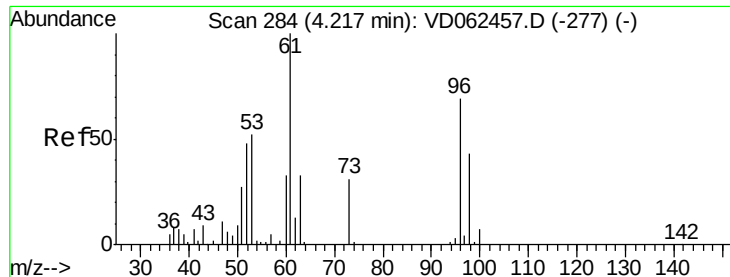
39 96.3 60.5 90.7#

76 37.6 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 96.481 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampleId :

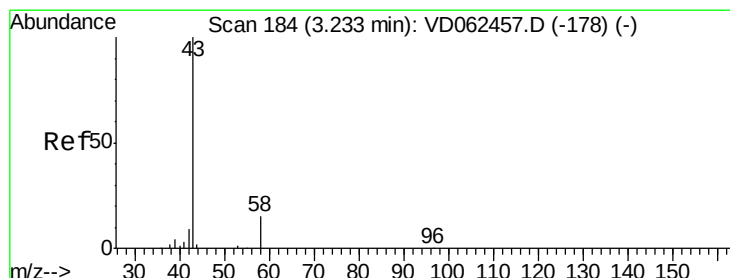
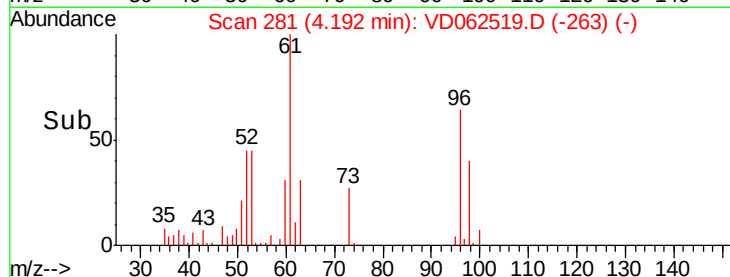
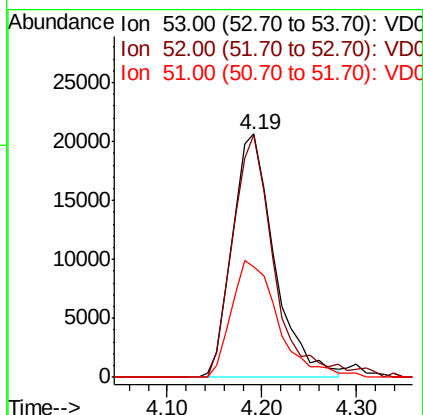
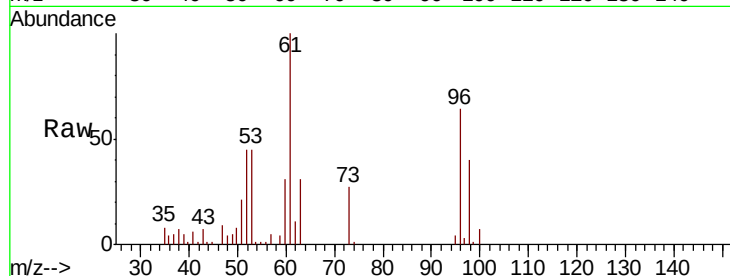
Tot Ion: 53 Resp: 63873

Ion Ratio Lower Upper

53 100

52 99.3 65.0 97.4#

51 45.5 32.6 48.8



#16

Acetone

Concen: 92.132 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD062519.D

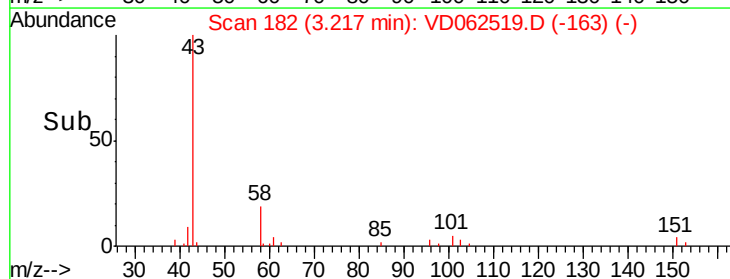
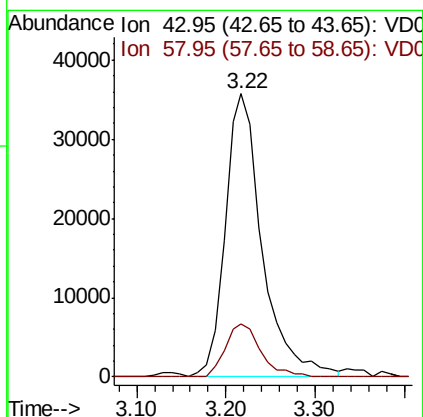
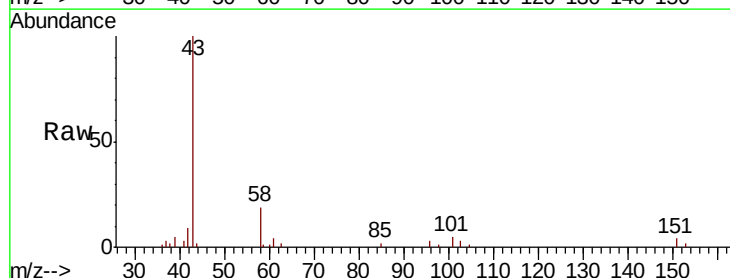
Acq: 23 May 2019 13:54

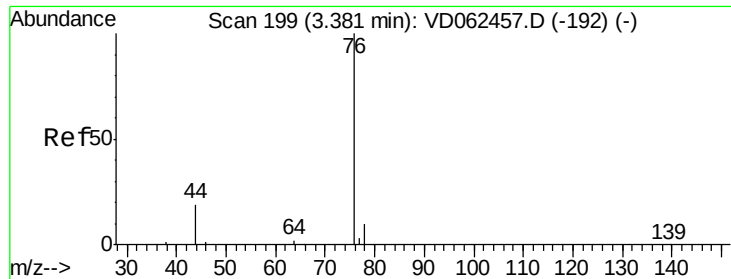
Tgt Ion: 43 Resp: 103338

Ion Ratio Lower Upper

43 100

58 19.7 19.9 29.9#





#17

Carbon Disulfide

Concen: 21.844 ug/l

RT: 3.37 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

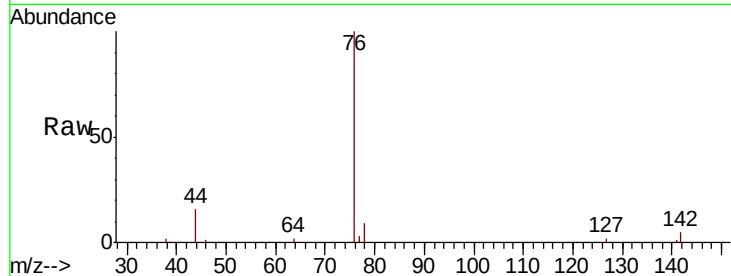
ClientSampled :

Tot Ion: 76 Resp: 286476

Ion Ratio Lower Upper

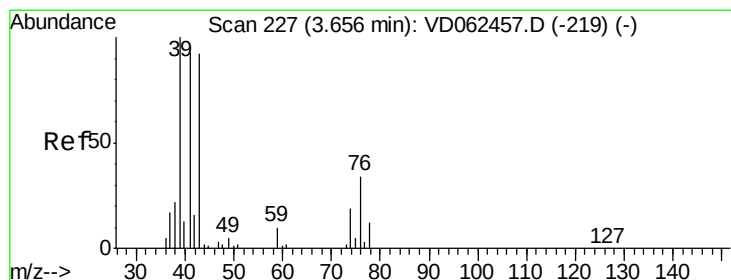
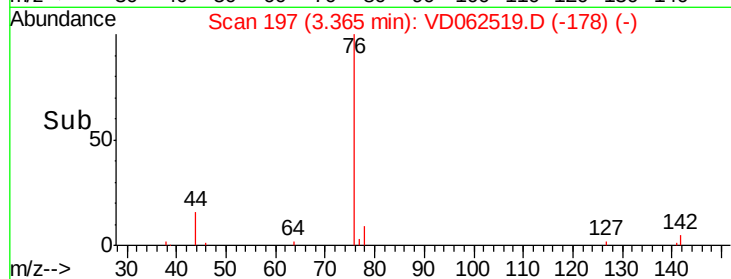
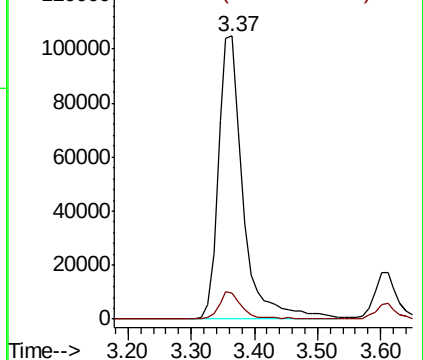
76 100

78 9.0 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 18.944 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.03 min

Lab File: VD062519.D

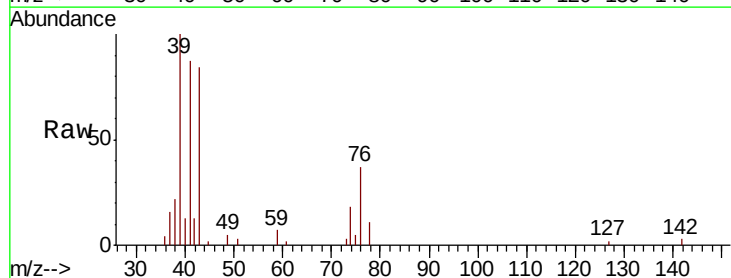
Acq: 23 May 2019 13:54

Tgt Ion: 43 Resp: 36665

Ion Ratio Lower Upper

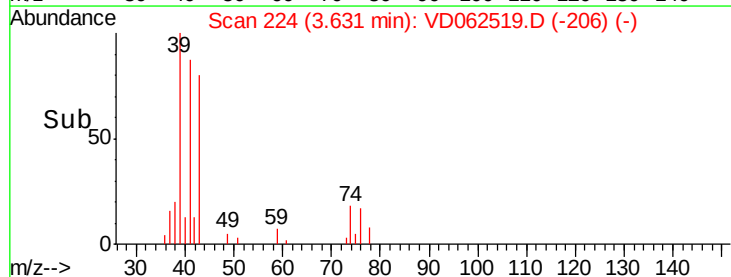
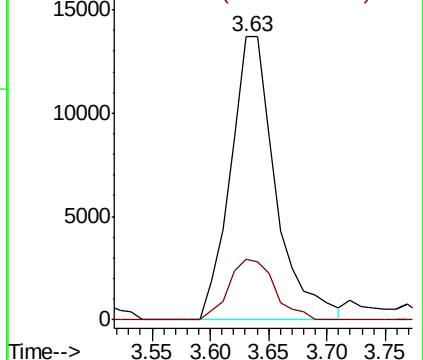
43 100

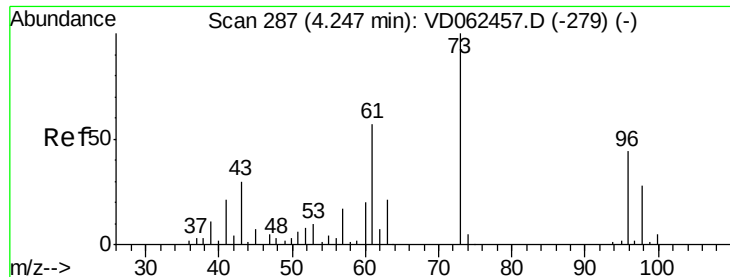
74 21.7 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

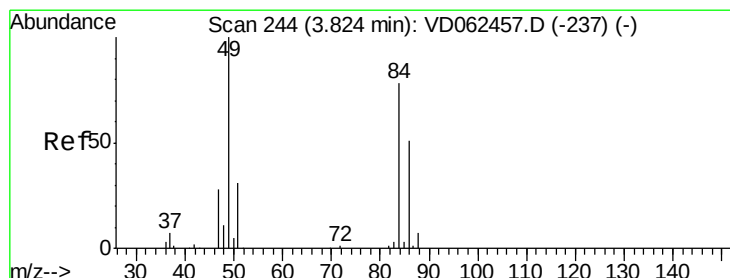
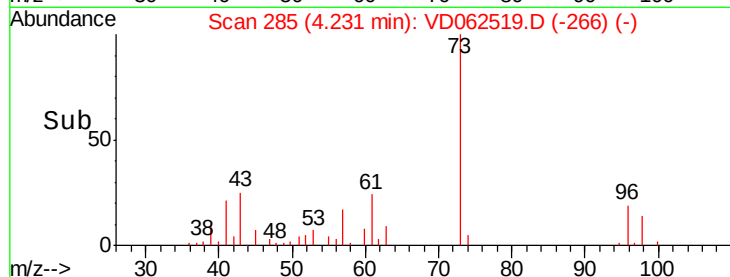
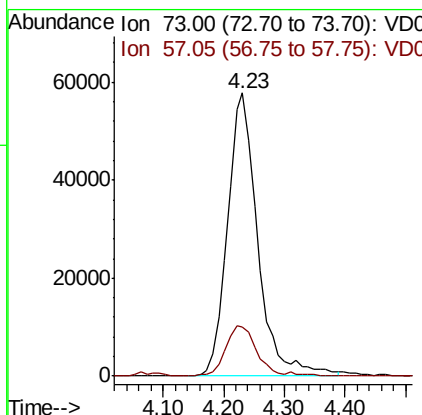
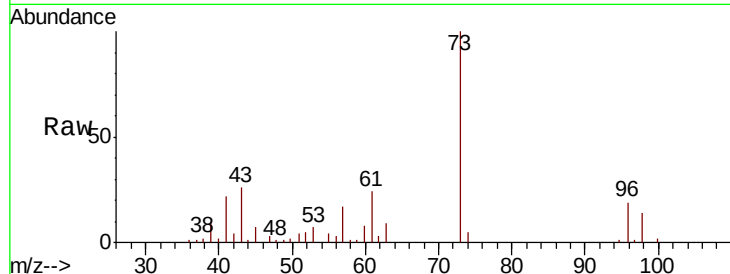




#19
Methyl tert-butyl Ether
Concen: 20.011 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

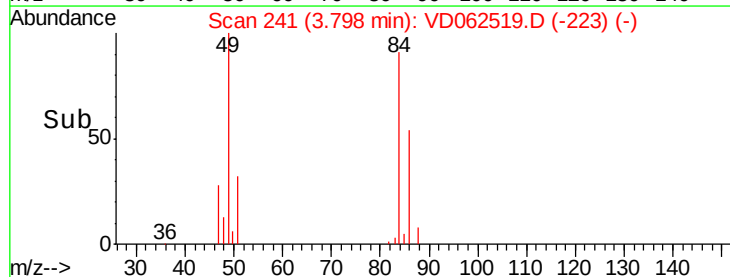
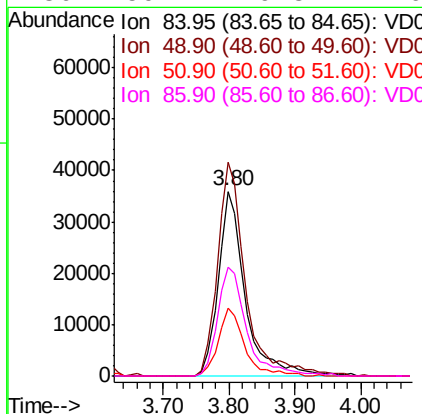
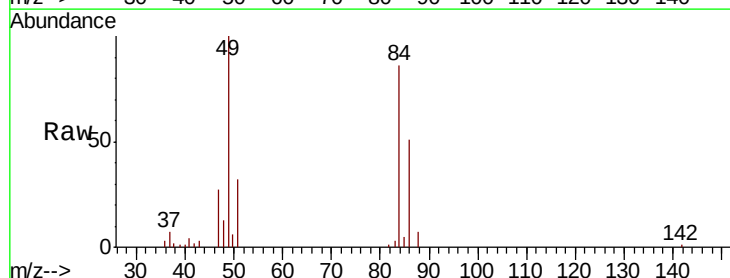
Instrument :
MSVOA_D
ClientSampleId :

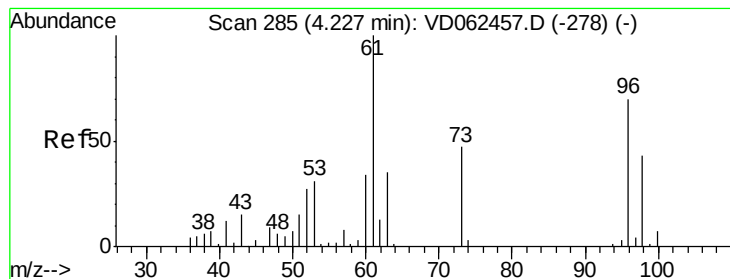
Tot Ion: 73 Resp: 200143
Ion Ratio Lower Upper
73 100
57 17.4 16.3 24.5



#20
Methylene Chloride
Concen: 17.089 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 84 Resp: 101485
Ion Ratio Lower Upper
84 100
49 115.8 94.0 141.0
51 37.0 29.0 43.4
86 59.1 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 20.312 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

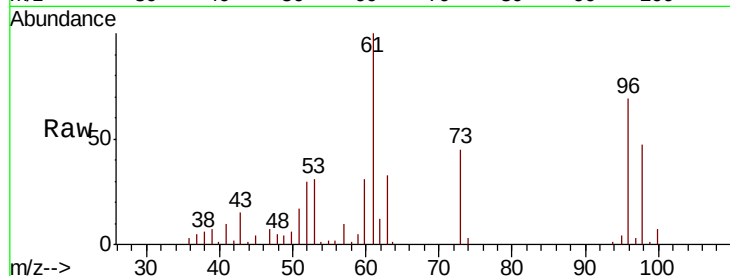
Tot Ion: 96 Resp: 102973

Ion Ratio Lower Upper

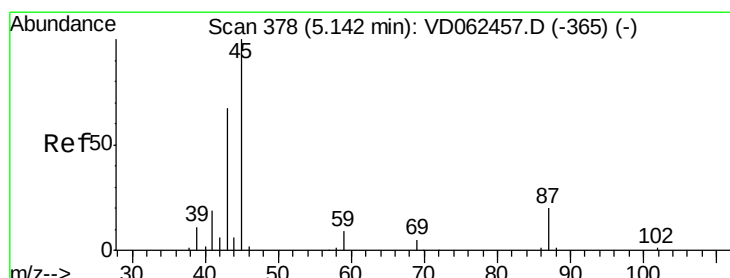
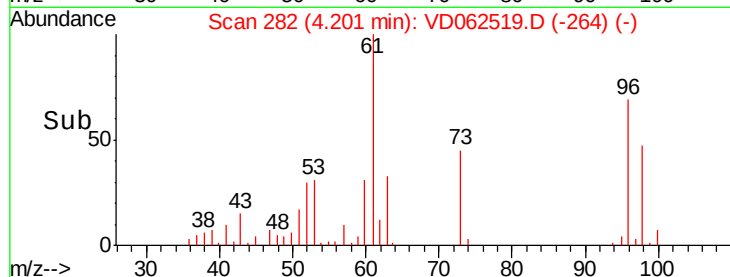
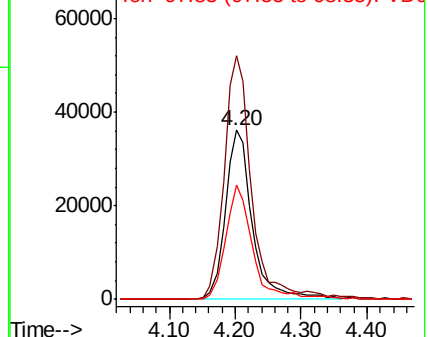
96 100

61 144.1 104.4 156.6

98 67.6 51.8 77.8



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: 20.094 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Tgt Ion: 45 Resp: 273088

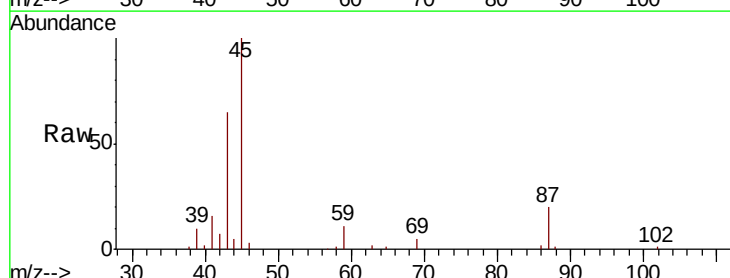
Ion Ratio Lower Upper

45 100

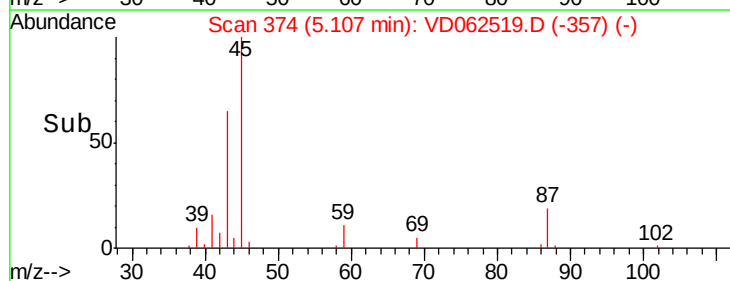
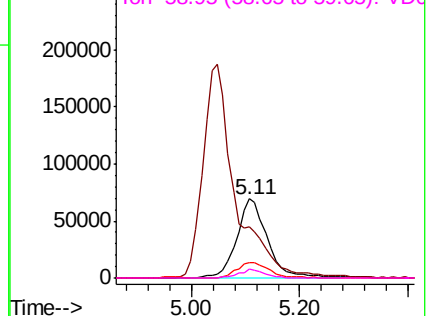
43 65.3 46.2 69.2

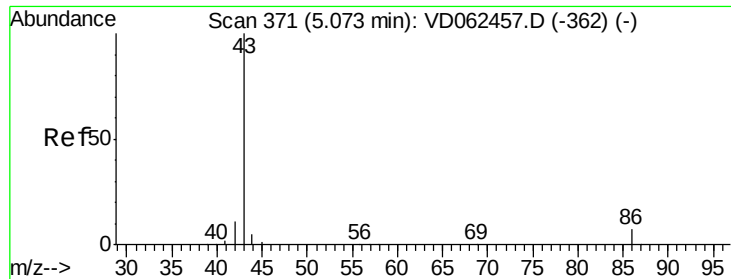
87 19.9 15.9 23.9

59 10.9 7.9 11.9



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





#23

Vinyl Acetate

Concen: 94.054 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

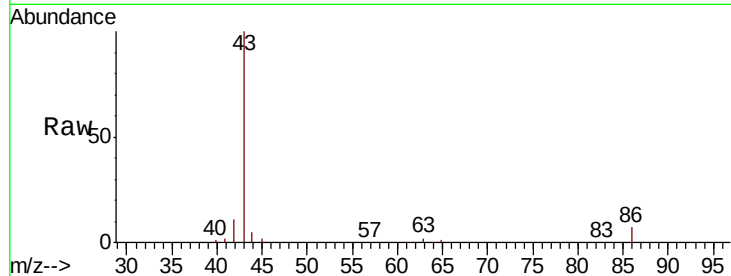
ClientSampleId :

Tot Ion: 43 Resp: 772388

Ion Ratio Lower Upper

43 100

86 7.1 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.05

200000

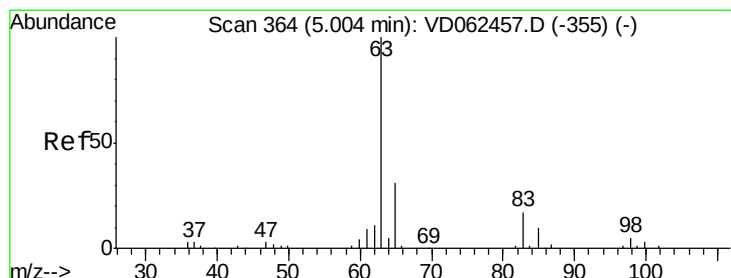
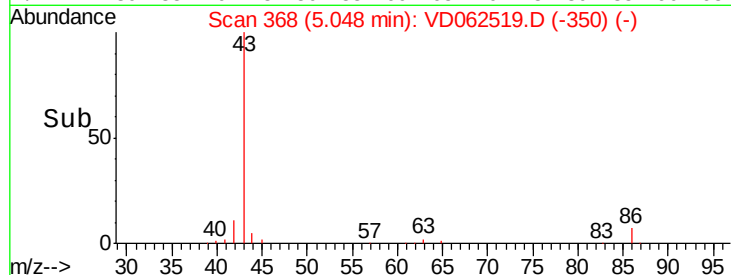
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.345 ug/l

RT: 4.97 min Scan# 360

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

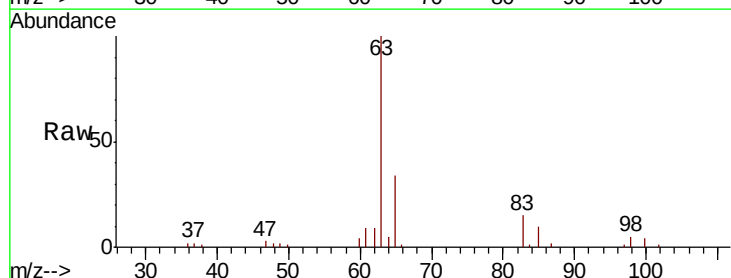
Tgt Ion: 63 Resp: 178076

Ion Ratio Lower Upper

63 100

98 4.8 2.8 8.4

100 3.5 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.97

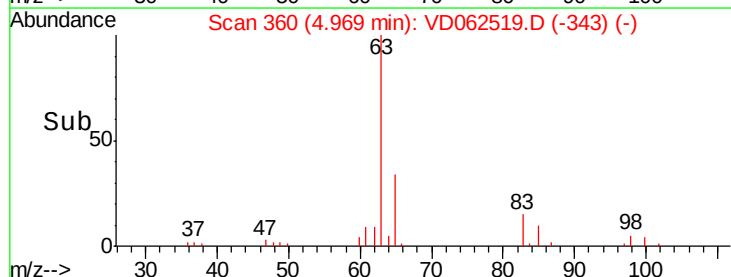
60000

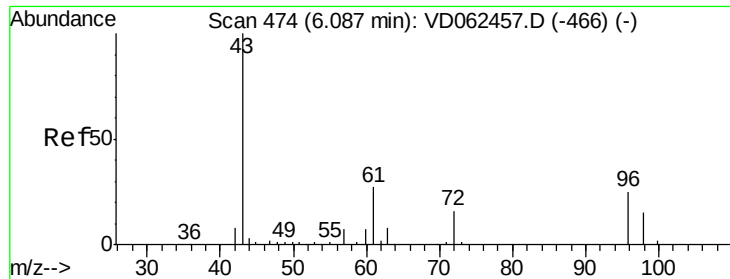
40000

20000

0

Time-->





#25

2-Butanone

Concen: 92.490 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

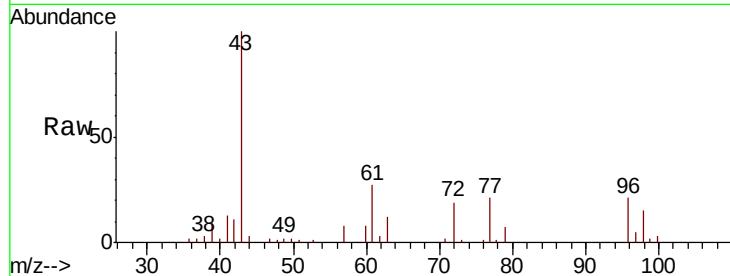
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 108502

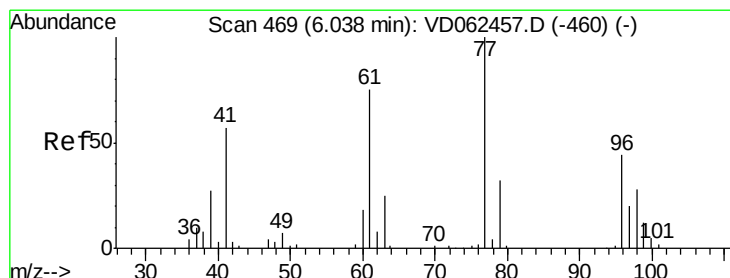
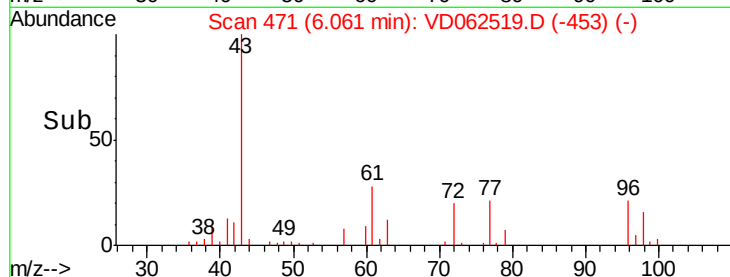
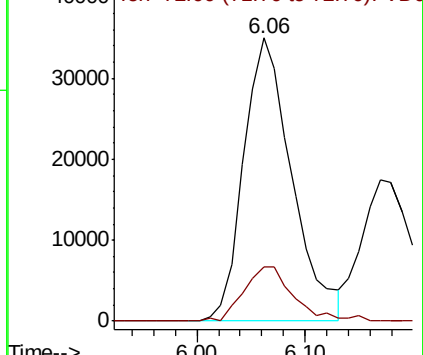
Ion Ratio Lower Upper

43 100

72 19.3 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.220 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.03 min

Lab File: VD062519.D

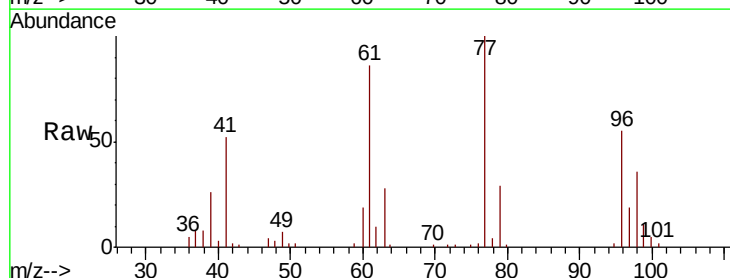
Acq: 23 May 2019 13:54

Tgt Ion: 77 Resp: 190779

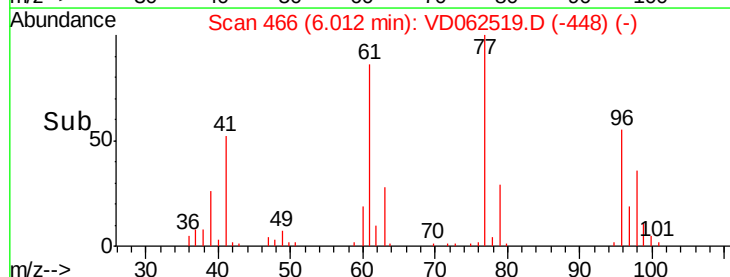
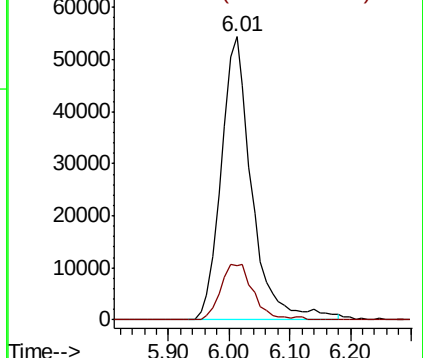
Ion Ratio Lower Upper

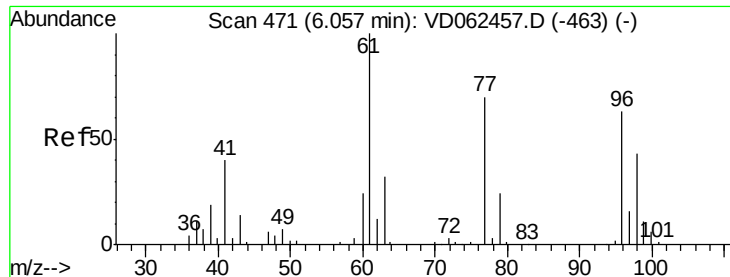
77 100

97 19.0 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC



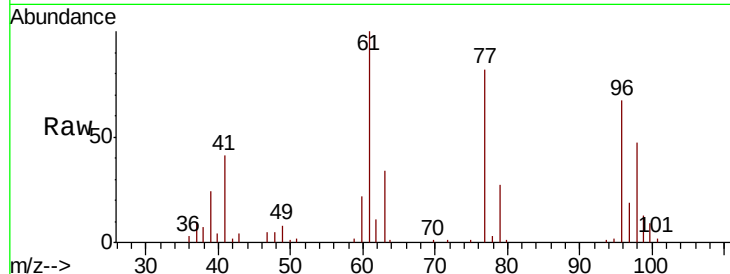


#27

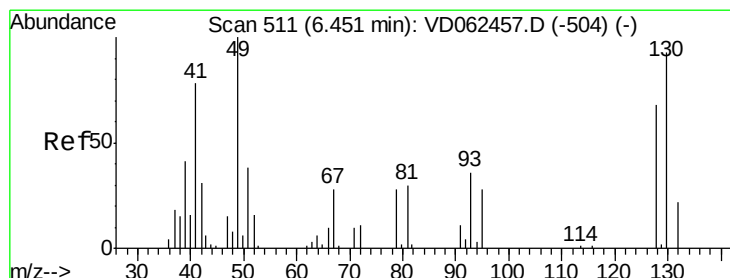
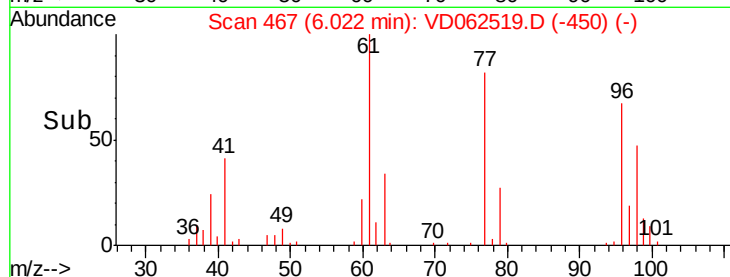
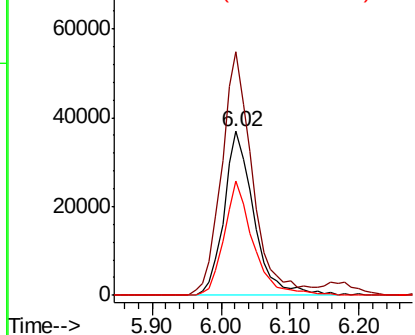
cis-1,2-Dichloroethene
Concen: 20.200 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.04 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 96 Resp: 110423
Ion Ratio Lower Upper
96 100
61 148.8 0.0 279.8
98 70.1 0.0 136.0



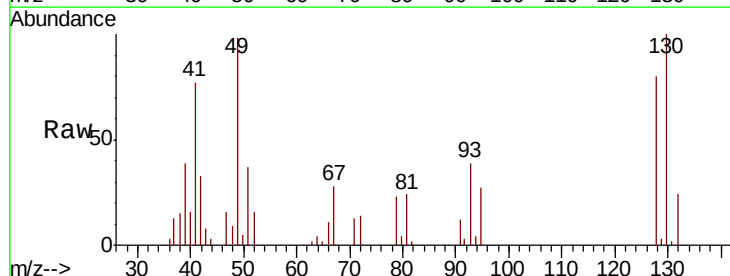
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



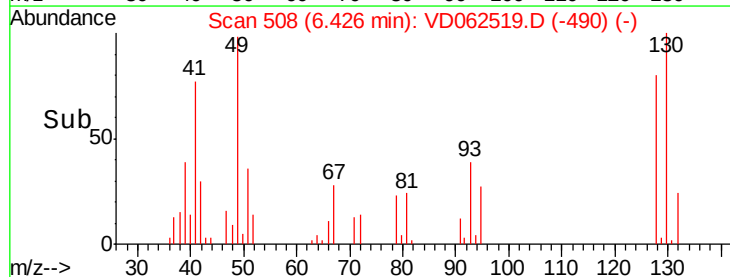
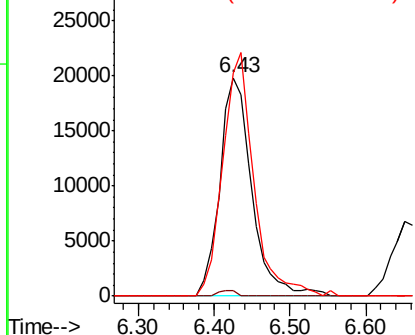
#28

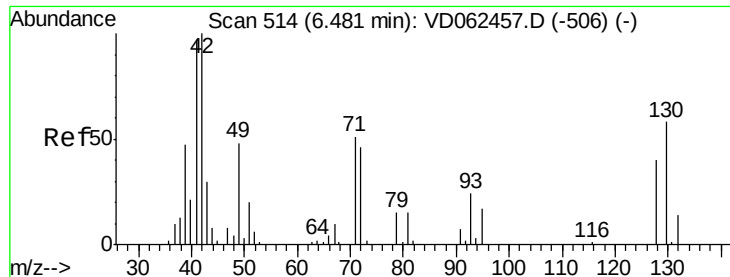
Bromochloromethane
Concen: 18.450 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.03 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 49 Resp: 57960
Ion Ratio Lower Upper
49 100
129 2.6 0.0 6.6
130 102.3 86.7 130.1



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





#29

Tetrahydrofuran

Concen: 93.612 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampled :

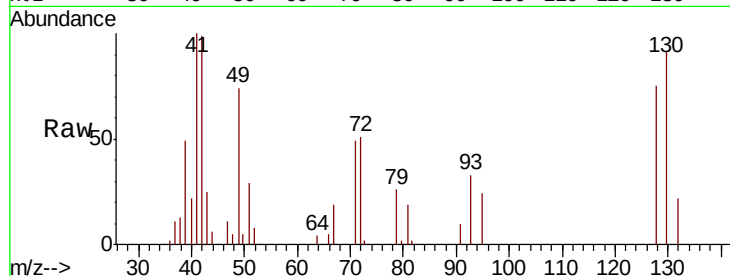
Tot Ion: 42 Resp: 52448

Ion Ratio Lower Upper

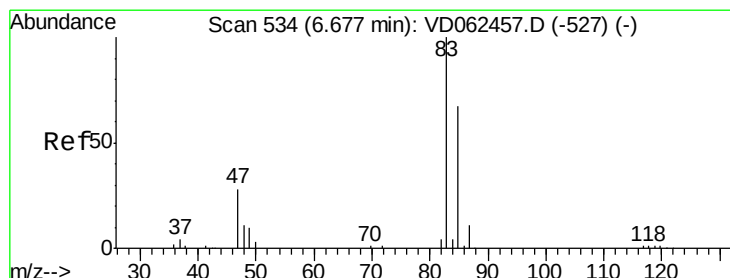
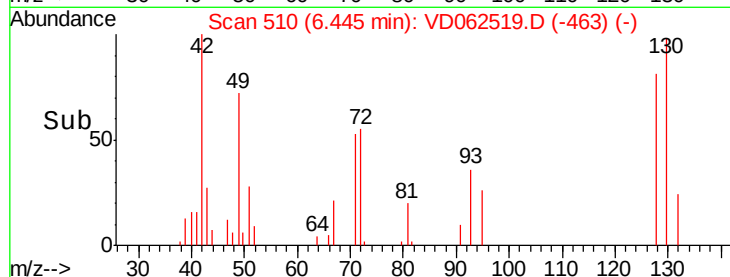
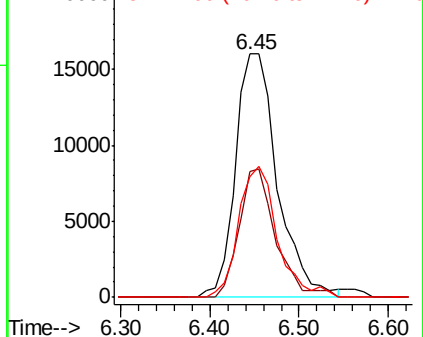
42 100

72 46.0 37.8 56.6

71 49.5 36.7 55.1



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



#30

Chloroform

Concen: 18.526 ug/l

RT: 6.65 min Scan# 531

Delta R.T. -0.03 min

Lab File: VD062519.D

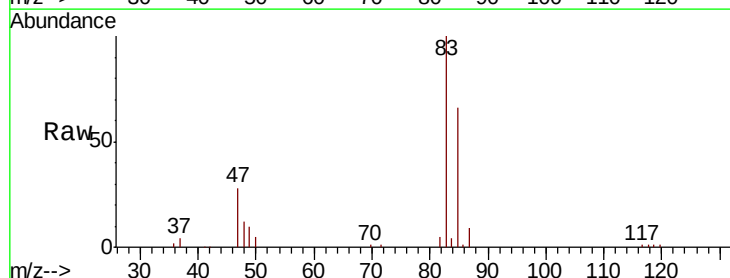
Acq: 23 May 2019 13:54

Tgt Ion: 83 Resp: 206728

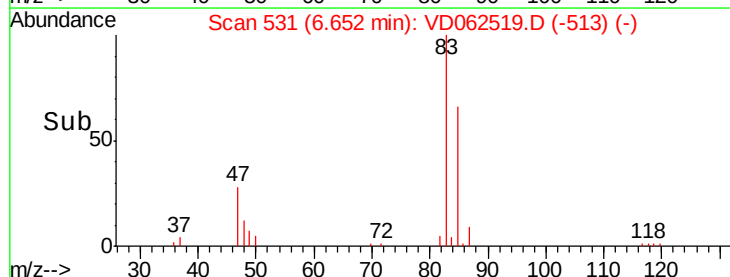
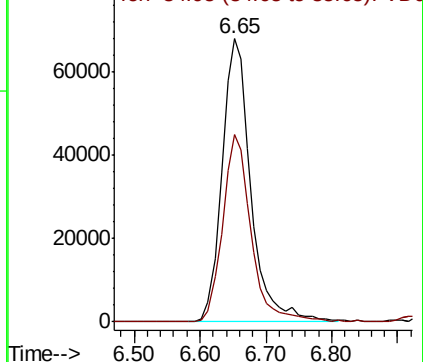
Ion Ratio Lower Upper

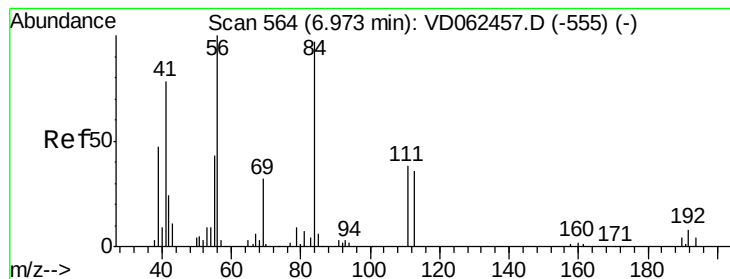
83 100

85 66.0 51.7 77.5



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





#31

Cyclohexane

Concen: 21.305 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampleId :

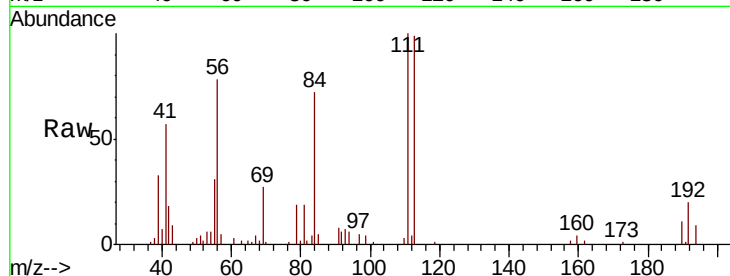
Tot Ion: 56 Resp: 125908

Ion Ratio Lower Upper

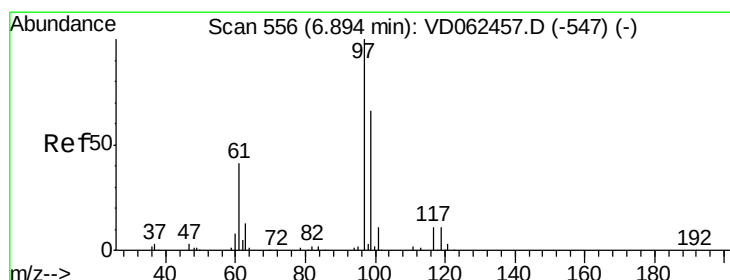
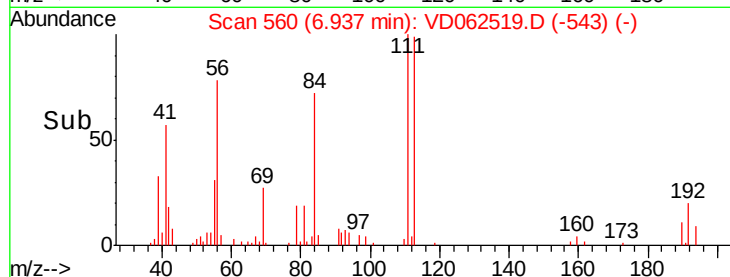
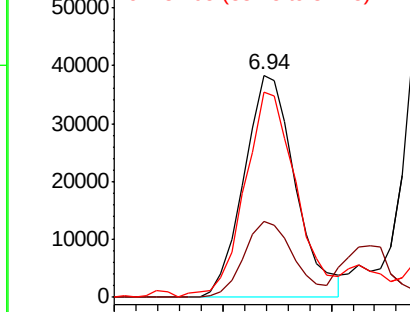
56 100

69 34.0 25.8 38.6

84 92.3 72.2 108.4



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: 18.619 ug/l

RT: 6.86 min Scan# 552

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

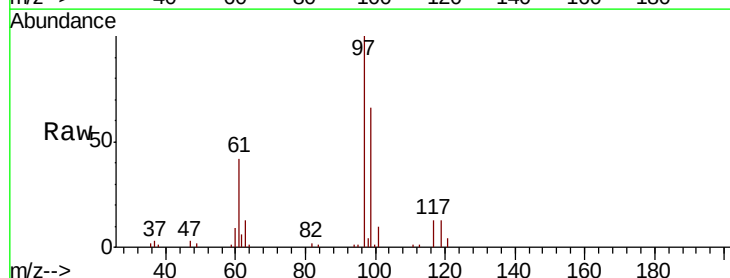
Tgt Ion: 97 Resp: 209758

Ion Ratio Lower Upper

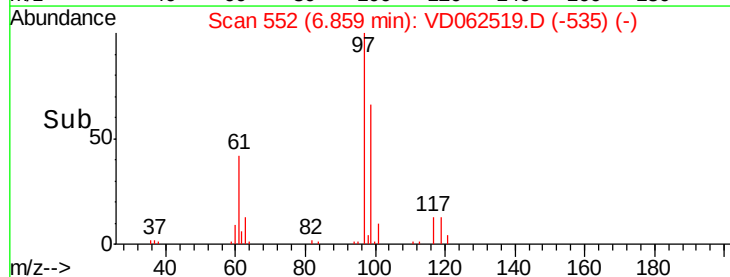
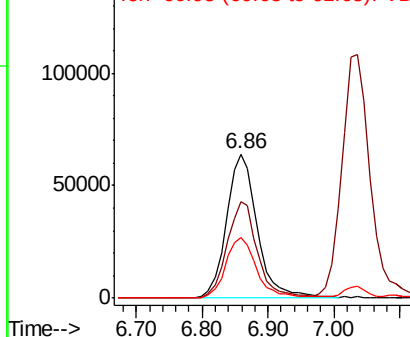
97 100

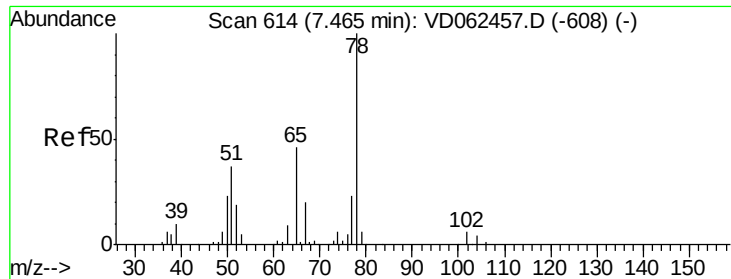
99 66.4 52.2 78.2

61 41.8 32.4 48.6



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

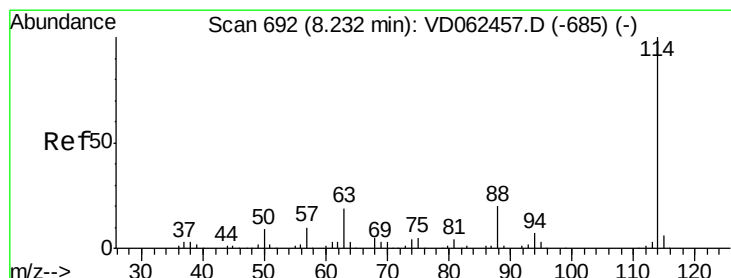
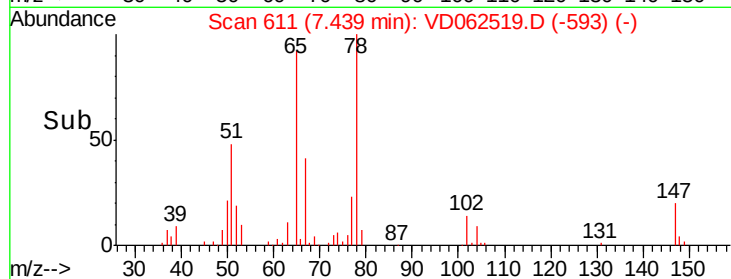
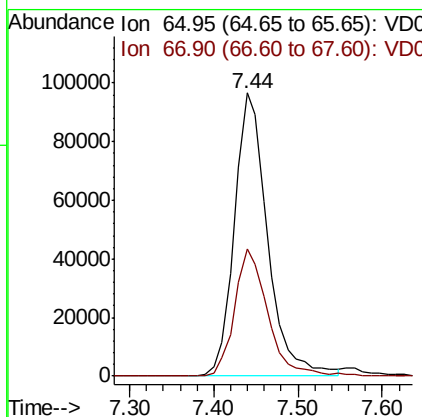
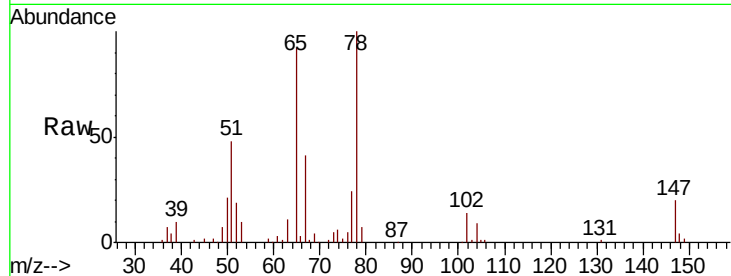




#33
 1,2-Dichloroethane-d4
 Concen: 42.290 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

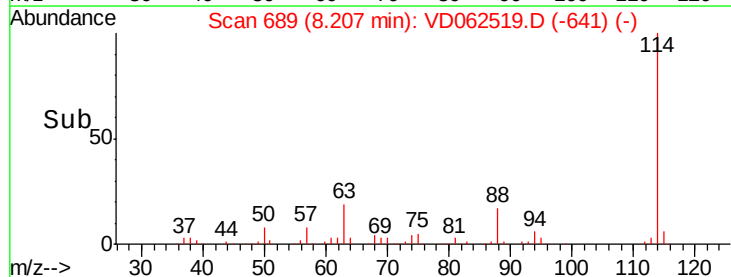
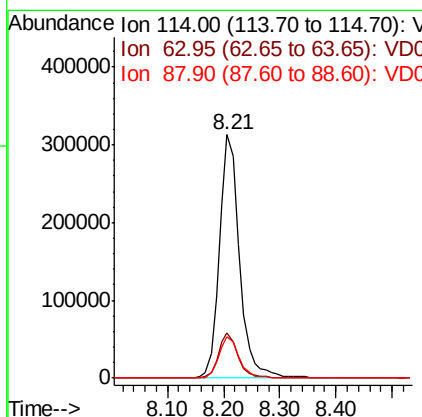
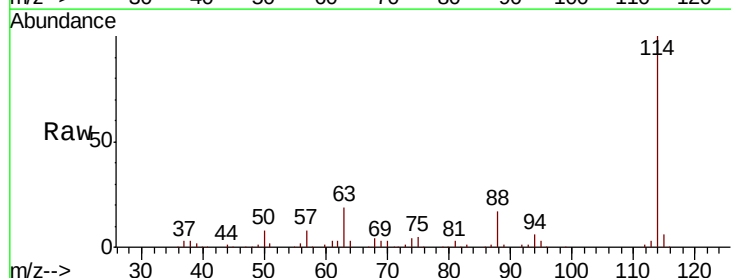
Instrument :
 MSVOA_D
 ClientSampled :

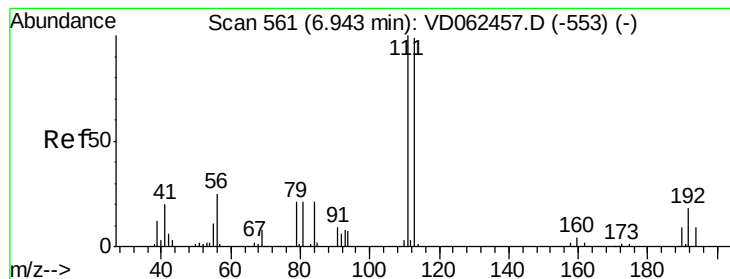
Tot Ion: 65 Resp: 264701
 Ion Ratio Lower Upper
 65 100
 67 44.9 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion: 114 Resp: 781685
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 32.4
 88 16.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 44.433 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

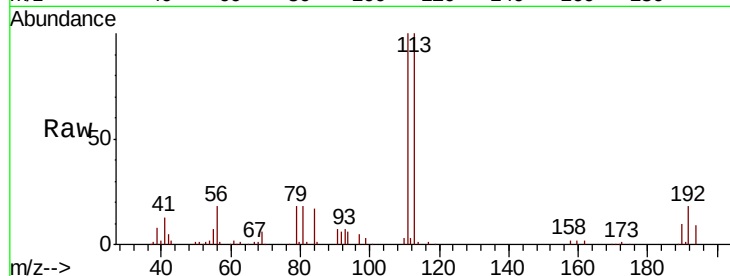
Tot Ion:113 Resp: 313330

Ion Ratio Lower Upper

113 100

111 99.8 78.5 117.7

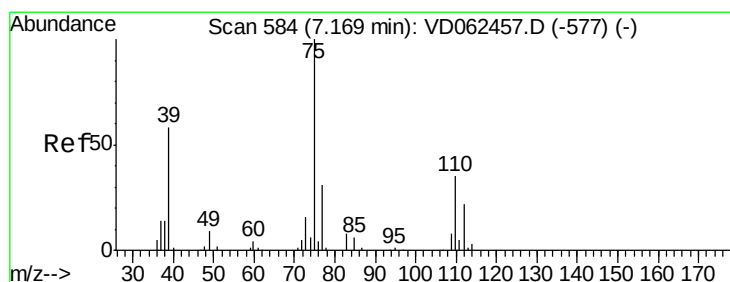
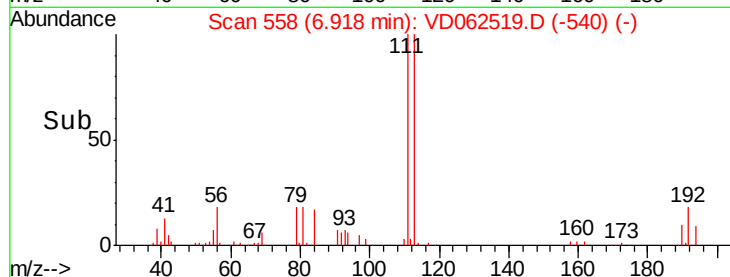
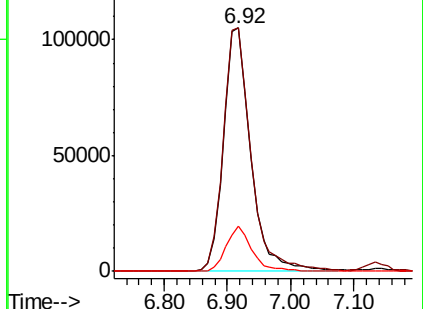
192 18.5 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 20.108 ug/l

RT: 7.13 min Scan# 580

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

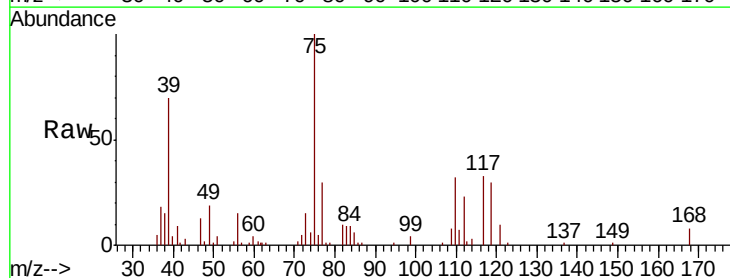
Tgt Ion: 75 Resp: 150273

Ion Ratio Lower Upper

75 100

110 32.4 19.1 57.1

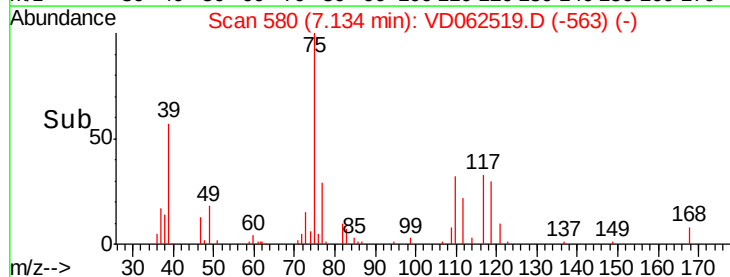
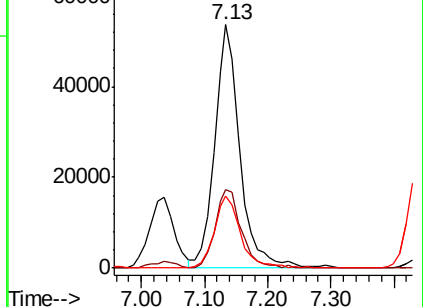
77 29.7 25.6 38.4

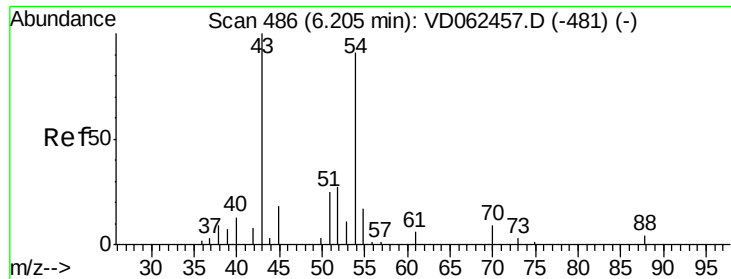


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

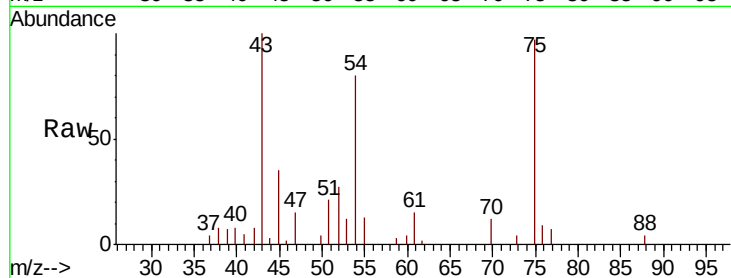




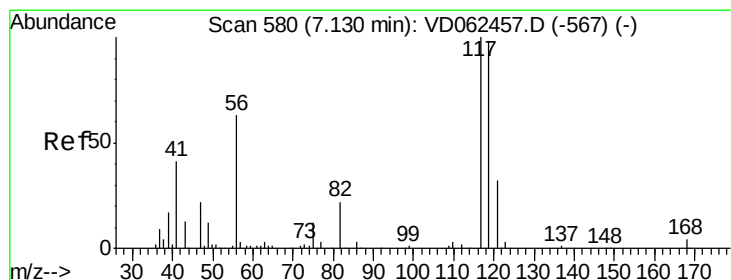
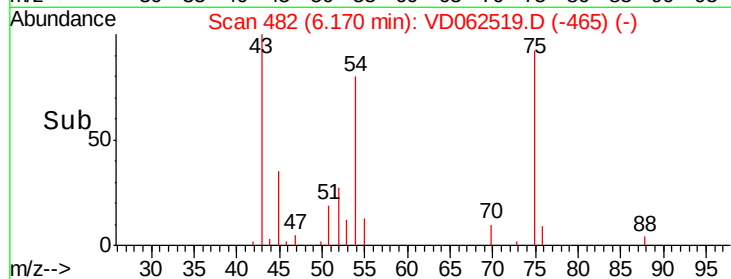
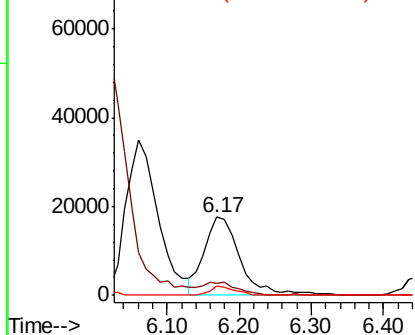
#37
Ethyl Acetate
Concen: 20.893 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.04 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 60658
Ion Ratio Lower Upper
43 100
61 14.7 14.7 22.1#
70 11.5 7.8 11.6

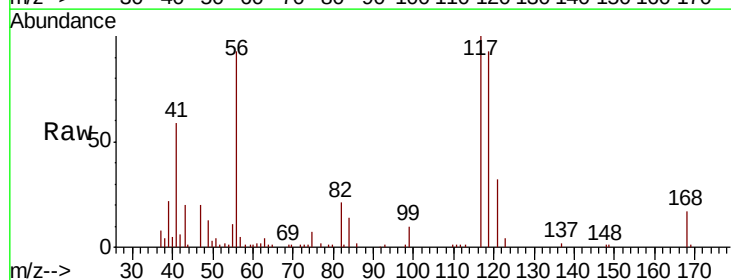


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

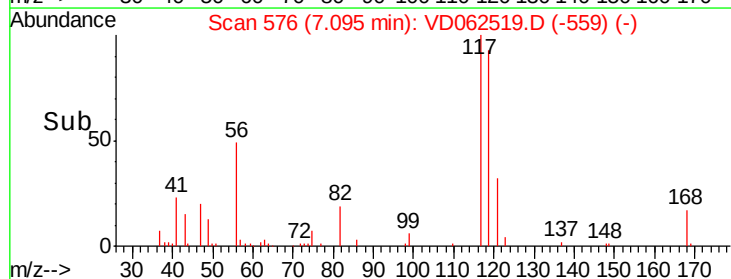
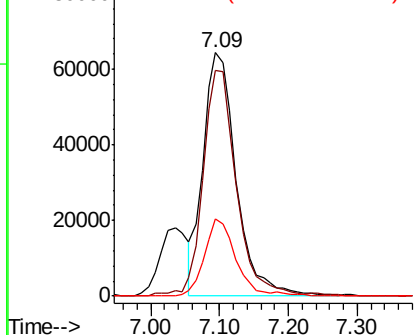


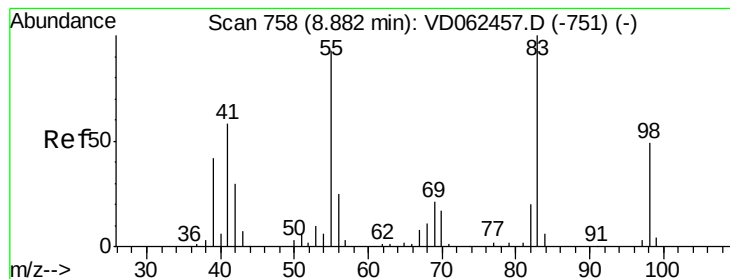
#38
Carbon Tetrachloride
Concen: 19.377 ug/l
RT: 7.09 min Scan# 576
Delta R.T. -0.04 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 117 Resp: 215224
Ion Ratio Lower Upper
117 100
119 92.6 75.8 113.8
121 31.6 25.9 38.9



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





#39

Methylvlcyclohexane

Concen: 21.993 ug/l

RT: 8.86 min Scan# 755

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

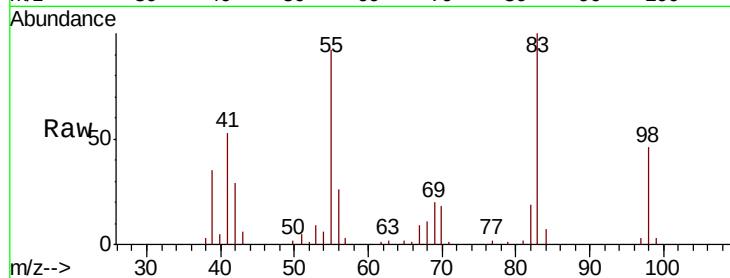
Tot Ion: 83 Resp: 135565

Ion Ratio Lower Upper

83 100

55 92.0 68.2 102.4

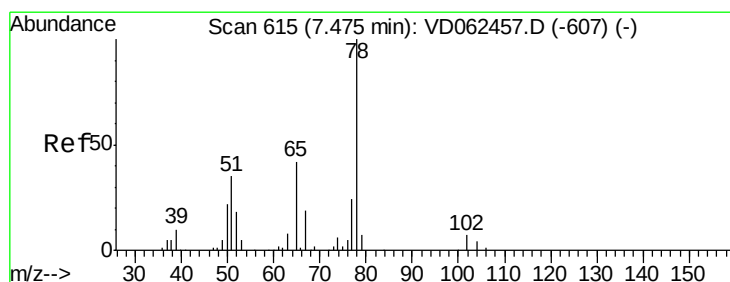
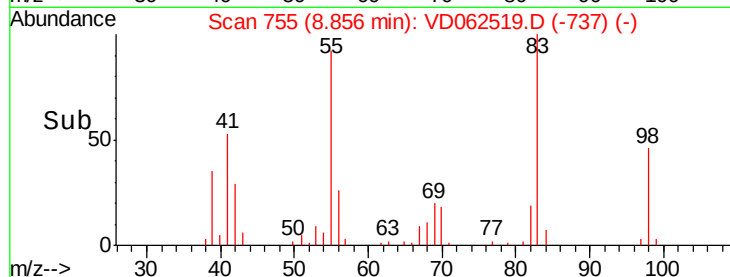
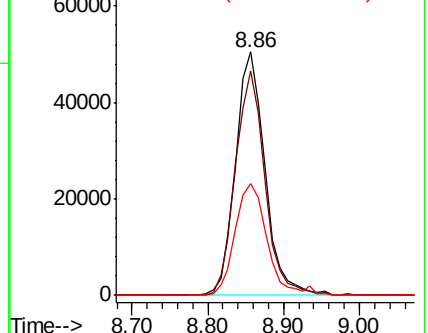
98 46.1 38.2 57.4



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 20.822 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.04 min

Lab File: VD062519.D

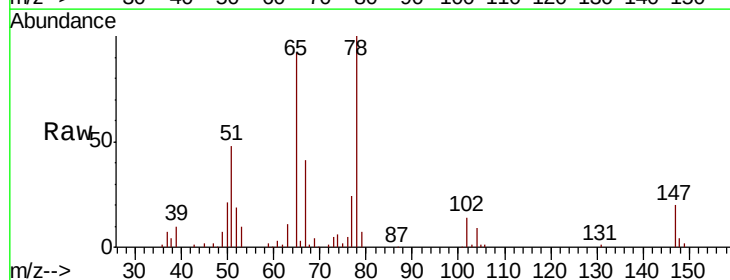
Acq: 23 May 2019 13:54

Tgt Ion: 78 Resp: 305241

Ion Ratio Lower Upper

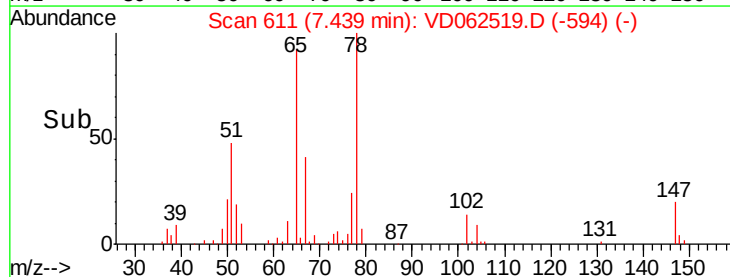
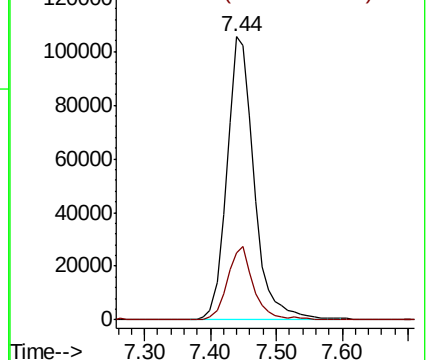
78 100

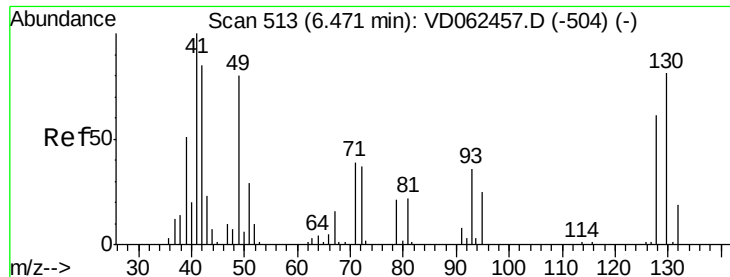
77 23.6 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 19.058 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.04 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 41 Resp: 69492

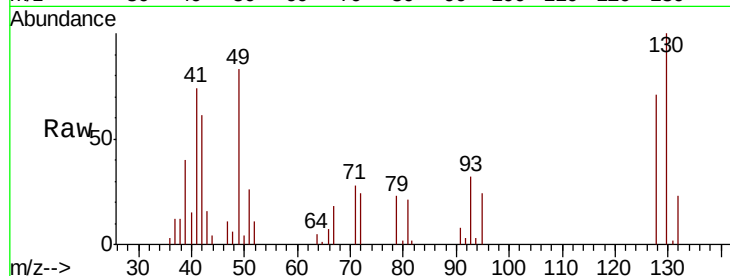
Ion Ratio Lower Upper

41 100

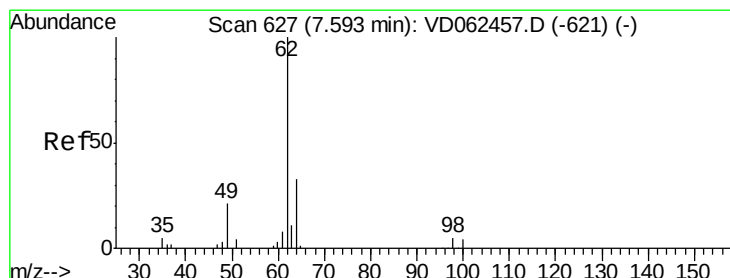
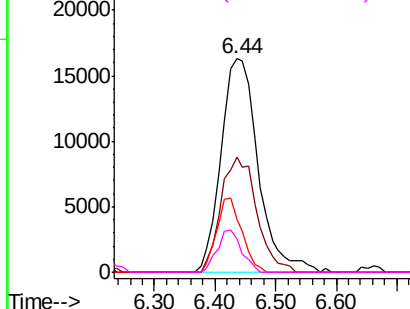
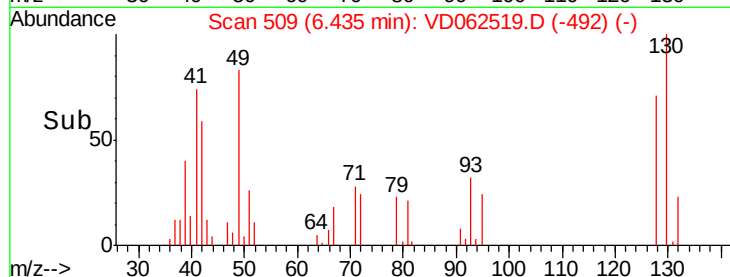
39 54.1 34.1 51.1#

67 24.8 23.8 35.6

52 15.5 8.8 13.2#



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: 18.091 ug/l

RT: 7.57 min Scan# 624

Delta R.T. -0.03 min

Lab File: VD062519.D

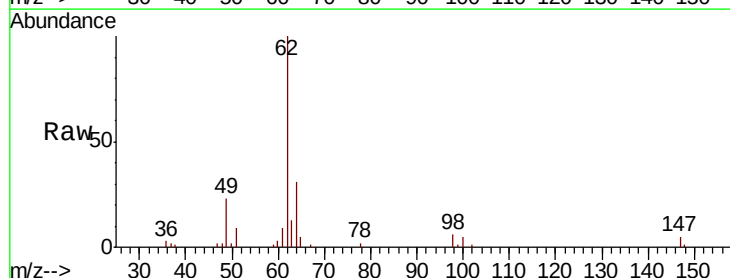
Acq: 23 May 2019 13:54

Tgt Ion: 62 Resp: 140435

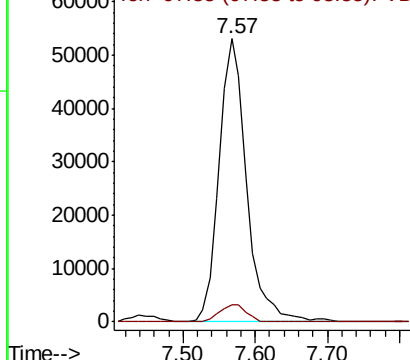
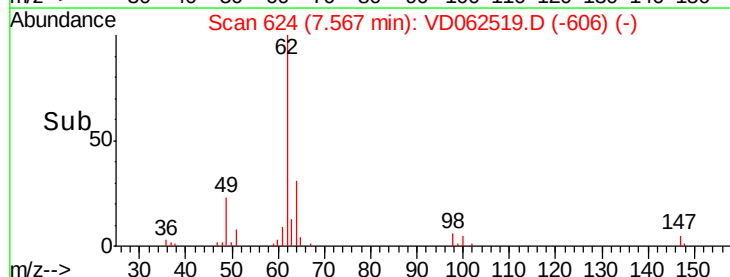
Ion Ratio Lower Upper

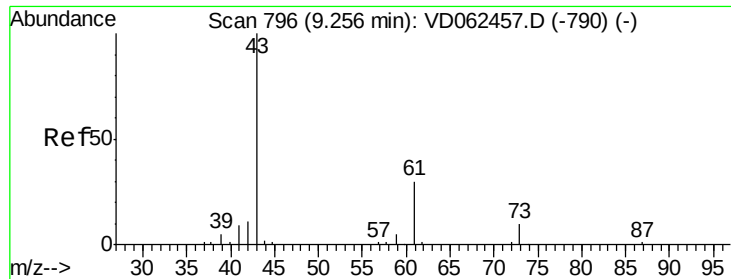
62 100

98 6.0 0.0 17.8



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





#43

Isopropyl Acetate

Concen: 18.547 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

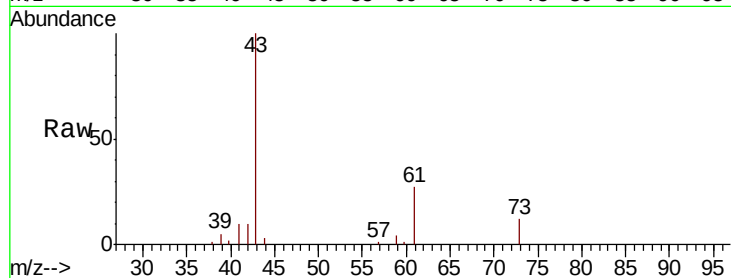
Tot Ion: 43 Resp: 71435

Ion Ratio Lower Upper

43 100

61 27.0 25.1 37.7

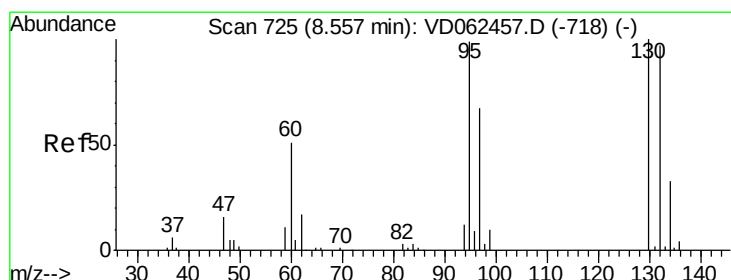
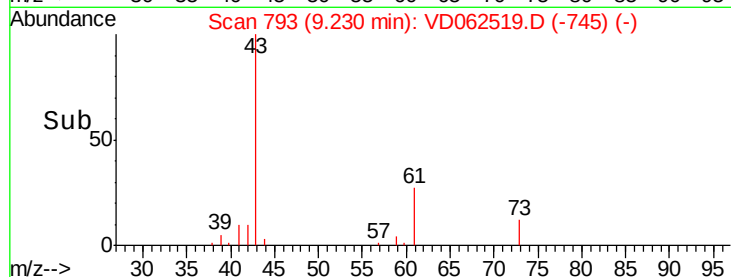
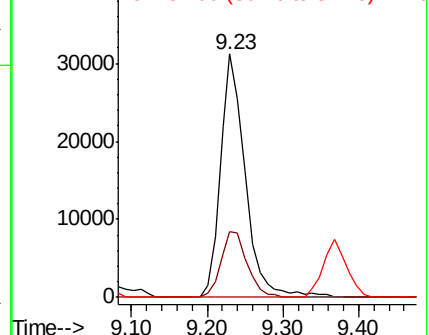
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 22.159 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.03 min

Lab File: VD062519.D

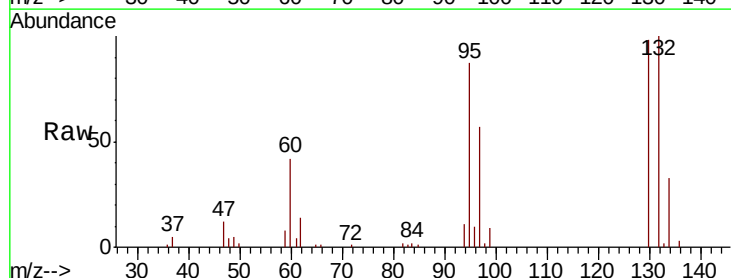
Acq: 23 May 2019 13:54

Tgt Ion:130 Resp: 130061

Ion Ratio Lower Upper

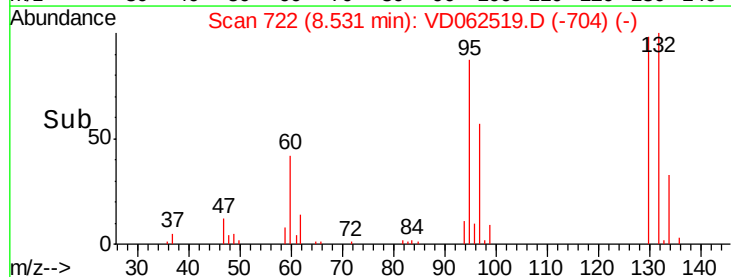
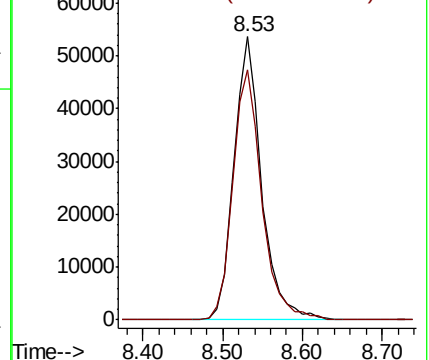
130 100

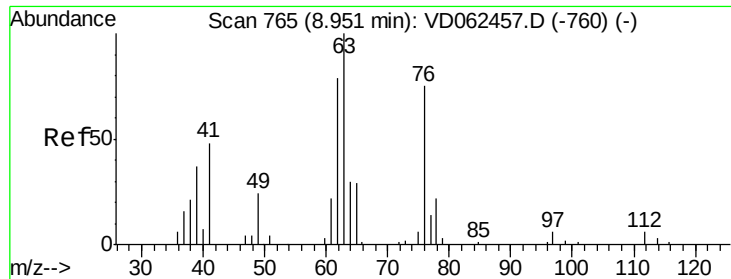
95 88.4 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.352 ug/l

RT: 8.93 min Scan# 763

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

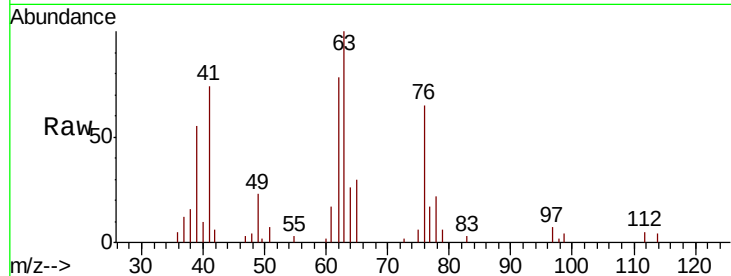
ClientSampleId :

Tot Ion: 63 Resp: 72705

Ion Ratio Lower Upper

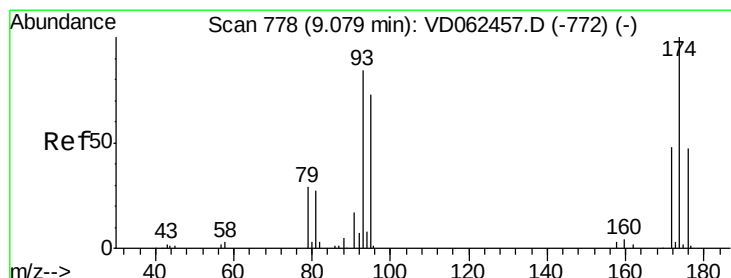
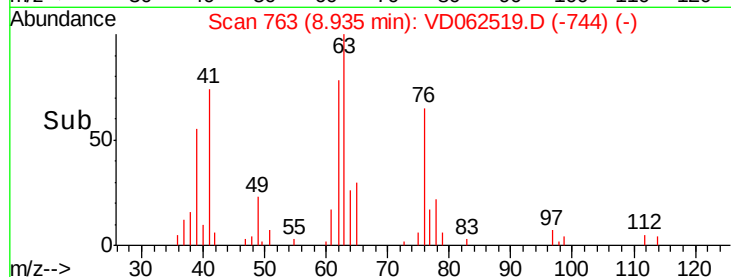
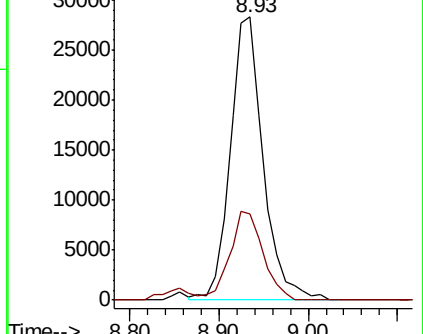
63 100

65 30.4 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 18.928 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

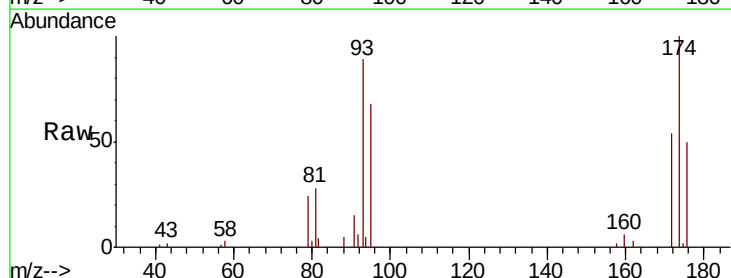
Tgt Ion: 93 Resp: 61294

Ion Ratio Lower Upper

93 100

95 77.1 64.8 97.2

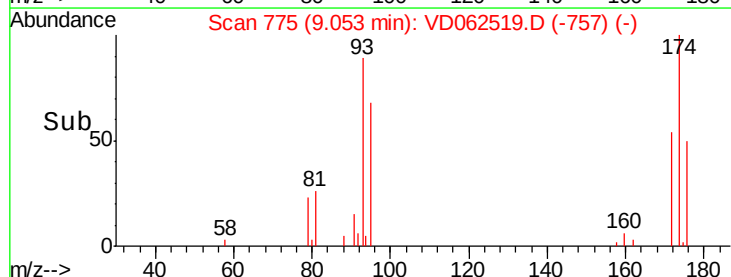
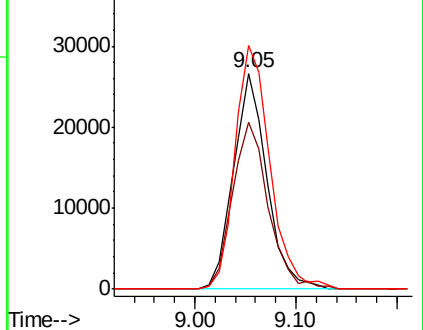
174 112.8 79.3 118.9

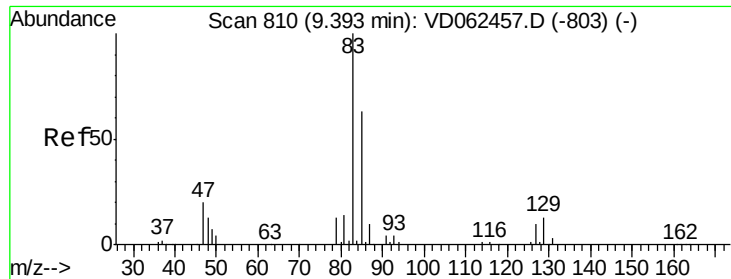


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 19.192 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

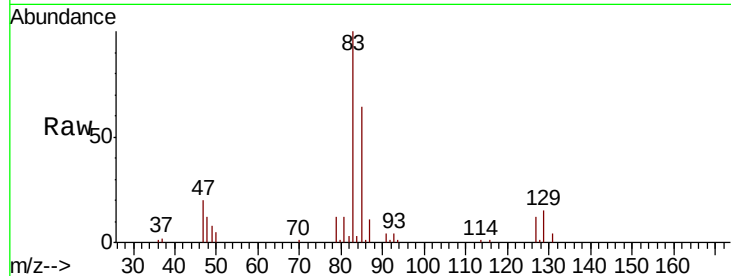
Tot Ion: 83 Resp: 158099

Ion Ratio Lower Upper

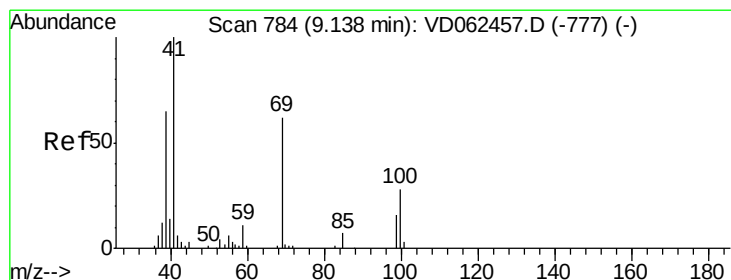
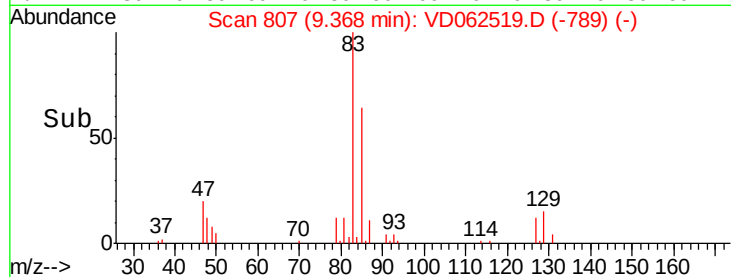
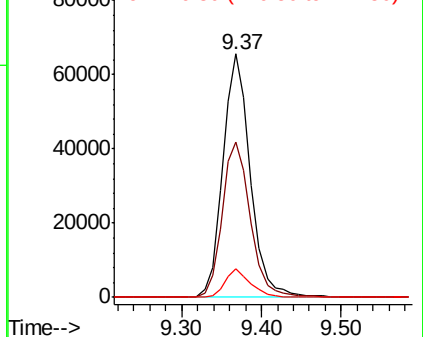
83 100

85 63.8 50.9 76.3

127 11.6 8.1 12.1



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: 19.349 ug/l

RT: 9.11 min Scan# 781

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

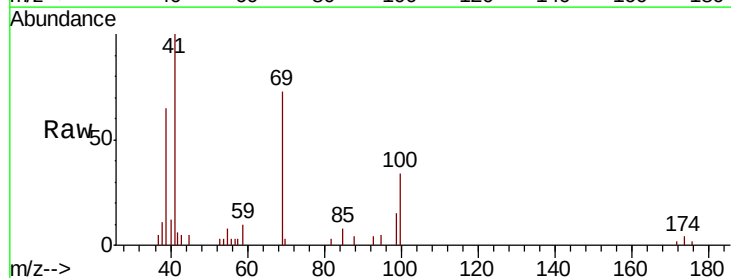
Tgt Ion: 41 Resp: 50150

Ion Ratio Lower Upper

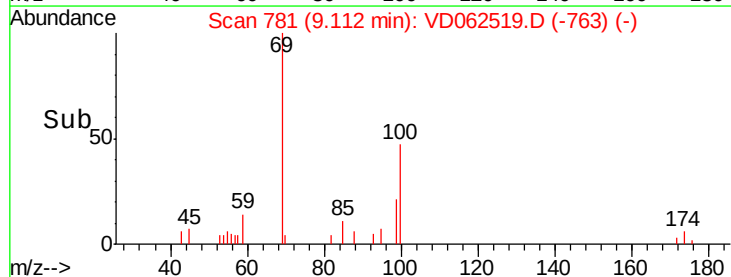
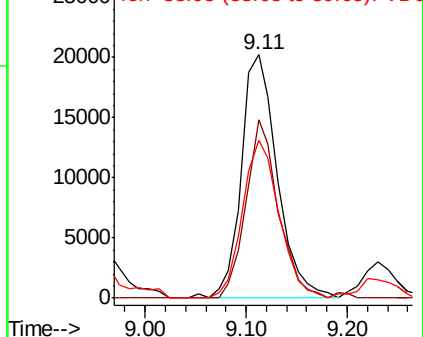
41 100

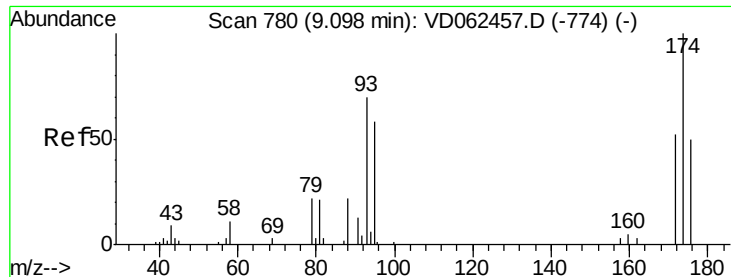
69 73.4 64.2 96.2

39 64.8 46.8 70.2



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

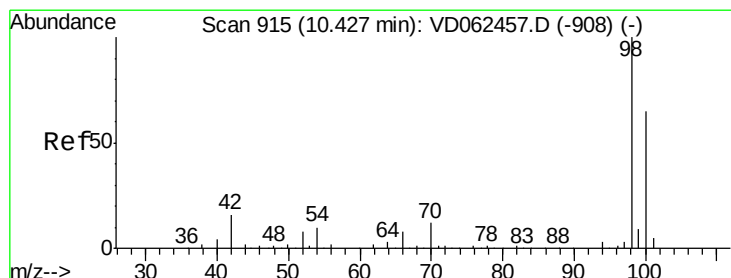
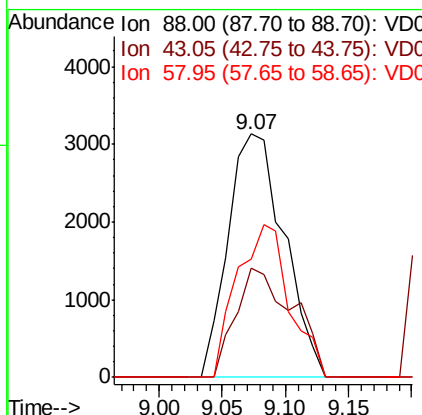
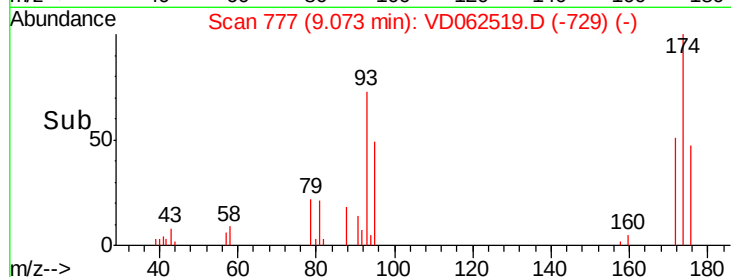
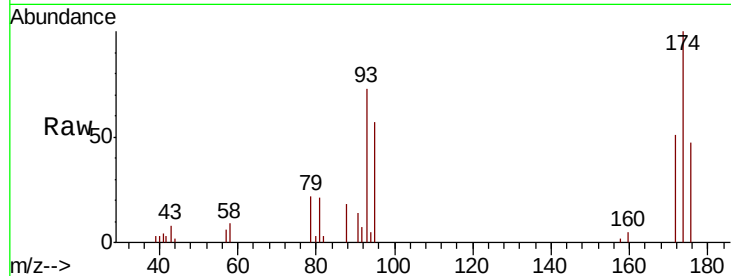




#49
 1,4-Dioxane
 Concen: 414.522 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

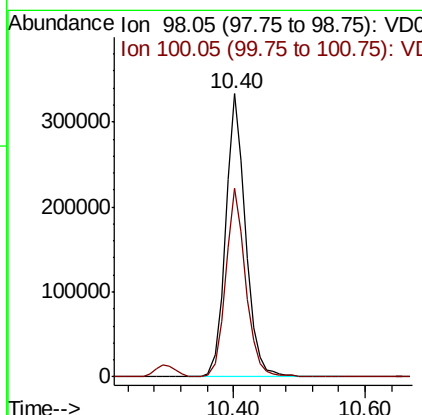
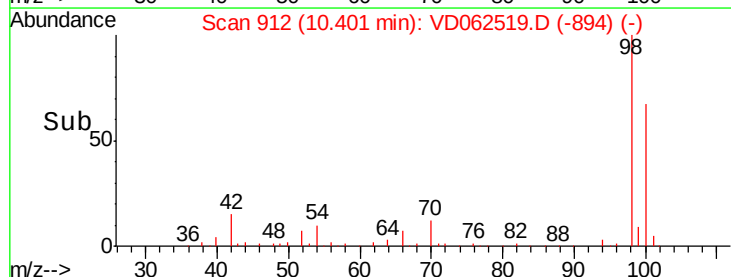
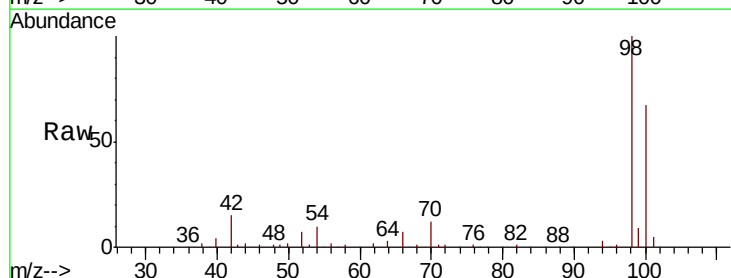
Instrument :
 MSVOA_D
 ClientSampled :

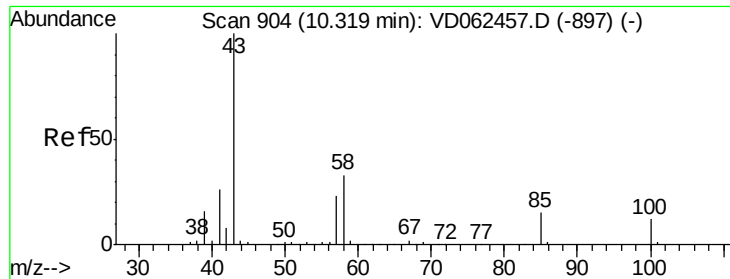
Tot Ion: 88 Resp: 9637
 Ion Ratio Lower Upper
 88 100
 43 45.1 23.4 35.0#
 58 48.6 44.0 66.0



#50
 Toluene-d8
 Concen: 45.743 ug/l
 RT: 10.40 min Scan# 912
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion: 98 Resp: 705908
 Ion Ratio Lower Upper
 98 100
 100 66.5 53.8 80.8





#51

4-Methyl-2-Pentanone

Concen: 99.362 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

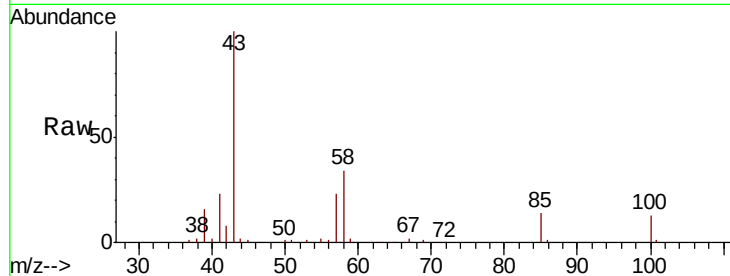
ClientSampleId :

Tot Ion: 43 Resp: 252819

Ion Ratio Lower Upper

43 100

58 33.7 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

120000

100000

80000

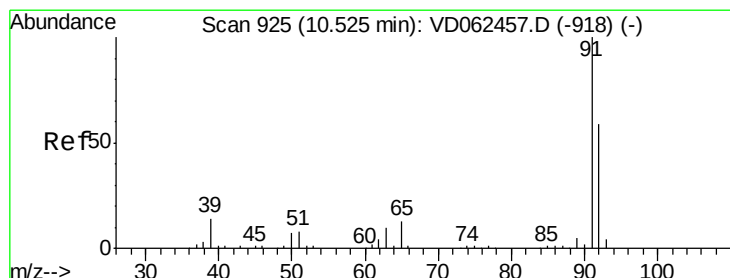
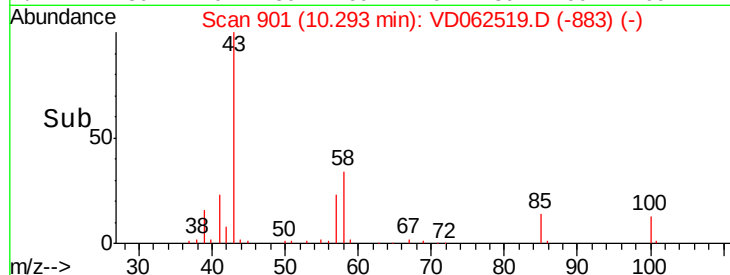
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 20.783 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD062519.D

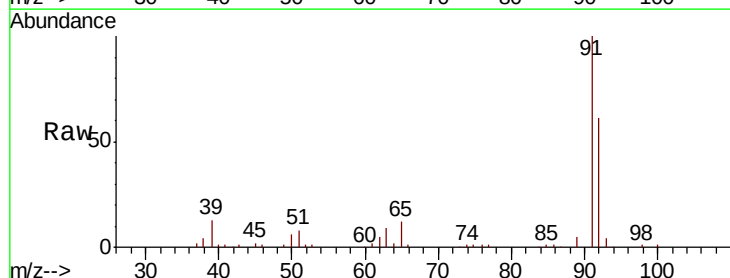
Acq: 23 May 2019 13:54

Tgt Ion: 92 Resp: 208569

Ion Ratio Lower Upper

92 100

91 164.2 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

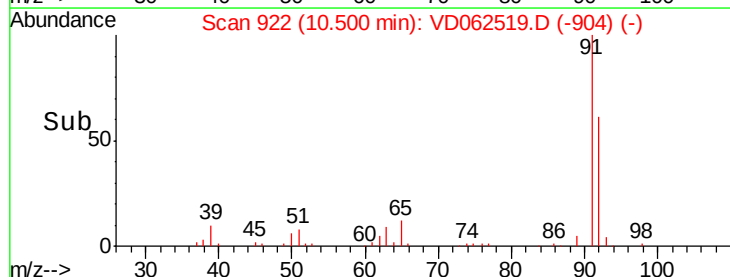
150000

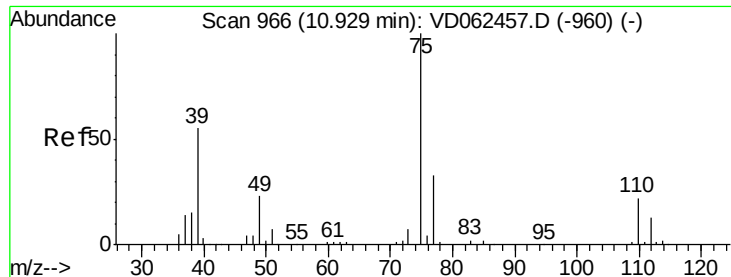
100000

50000

0

Time-->

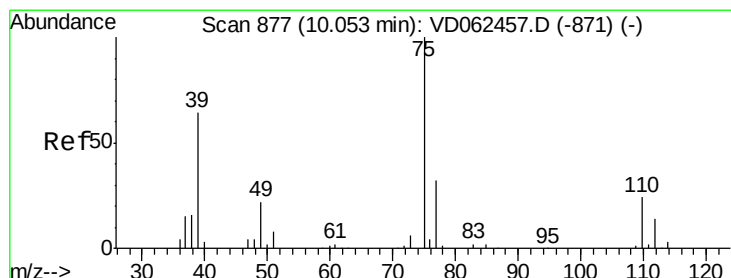
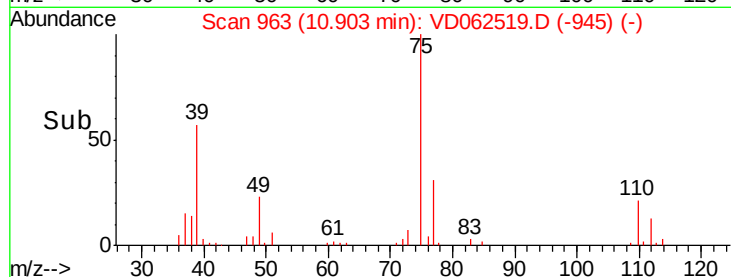
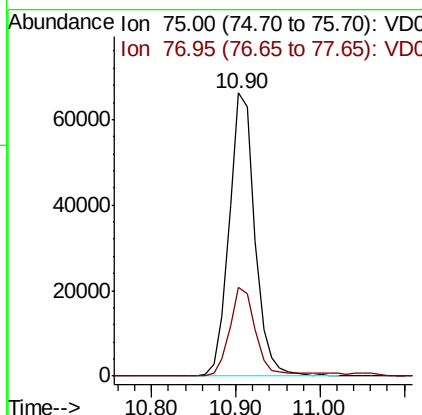
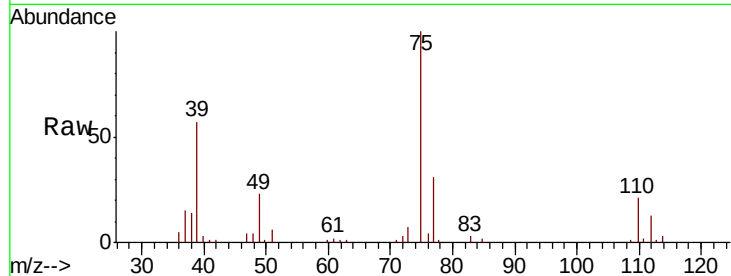




#53
 t-1,3-Dichloropropene
 Concen: 20.434 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

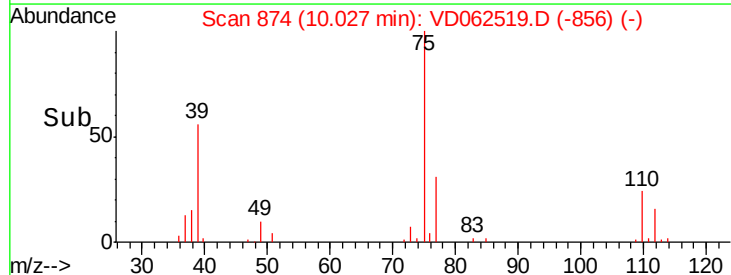
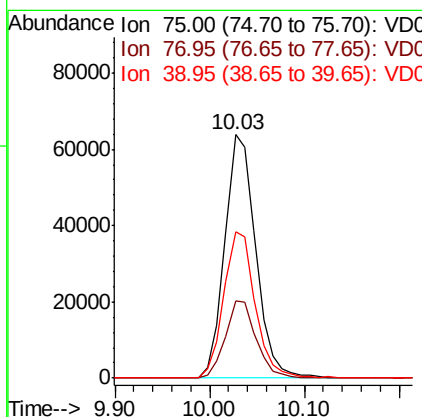
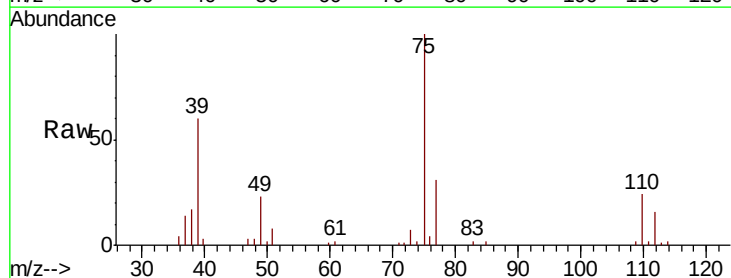
Instrument :
 MSVOA_D
 ClientSampleId :

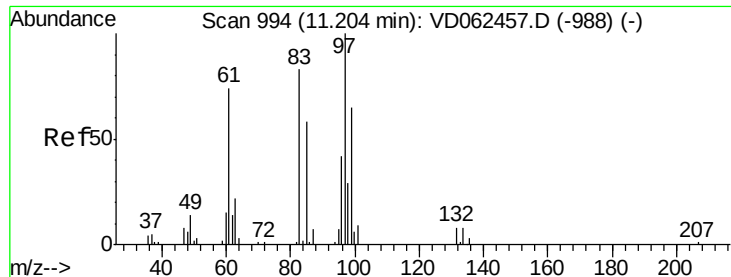
Tot Ion: 75 Resp: 140144
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.240 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion: 75 Resp: 144844
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.5 38.3
 39 59.9 39.4 59.2#





#55

1,1,2-Trichloroethane

Concen: 19.466 ug/l

RT: 11.18 min Scan# 991

Delta R.T. -0.03 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 66209

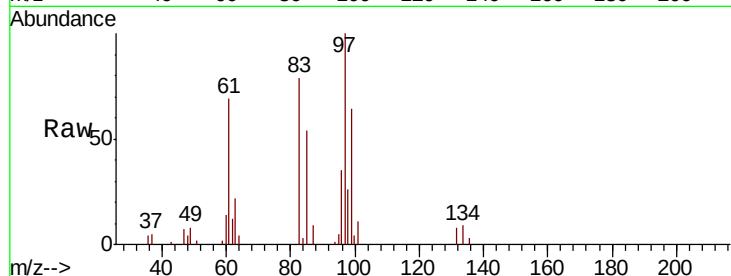
Ion Ratio Lower Upper

97 100

83 79.4 65.7 98.5

85 54.0 45.6 68.4

99 64.4 48.4 72.6

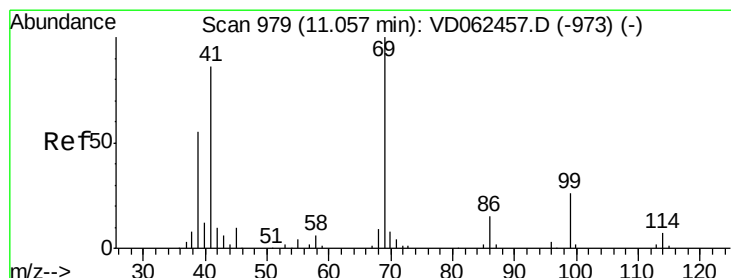
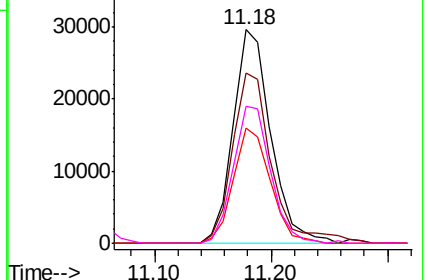
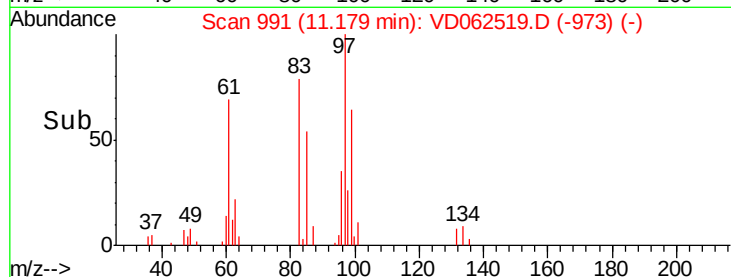


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 20.534 ug/l

RT: 11.04 min Scan# 977

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

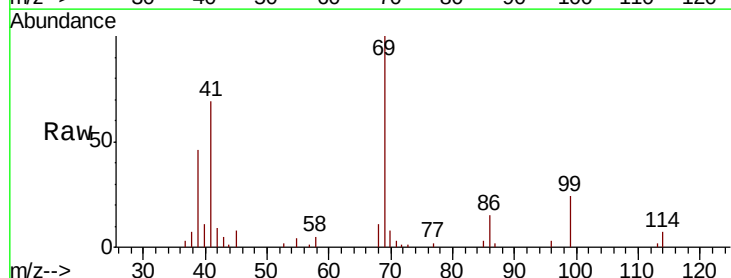
Tgt Ion: 69 Resp: 74661

Ion Ratio Lower Upper

69 100

41 69.5 56.3 84.5

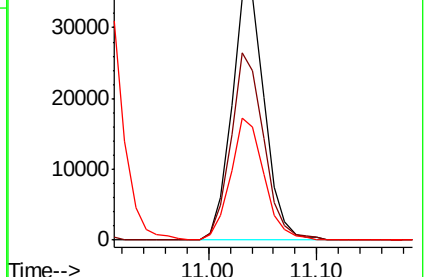
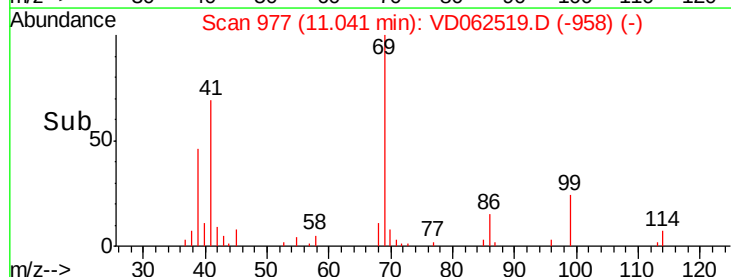
39 46.3 29.4 44.2#

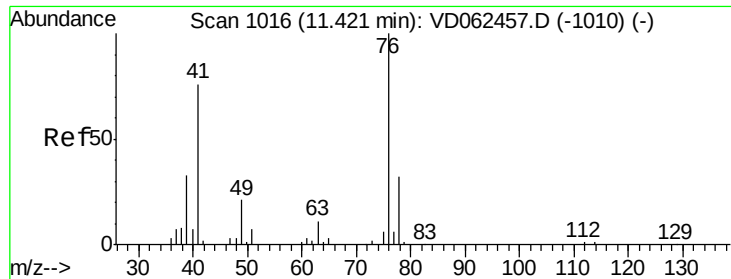


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

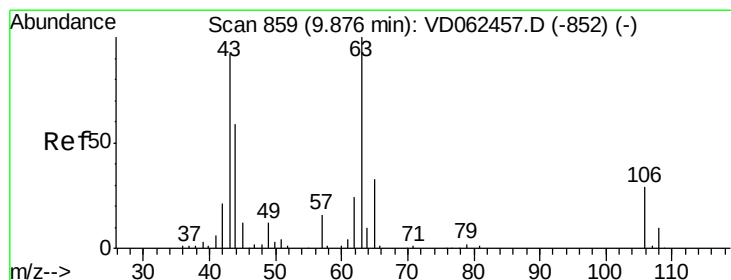
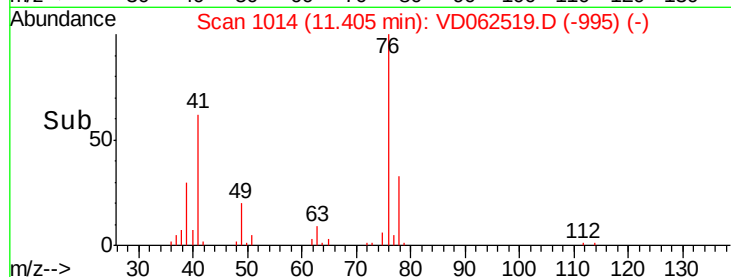
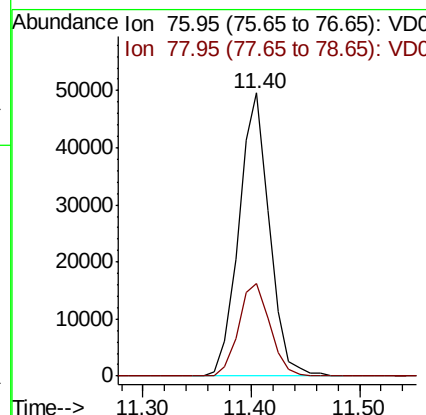
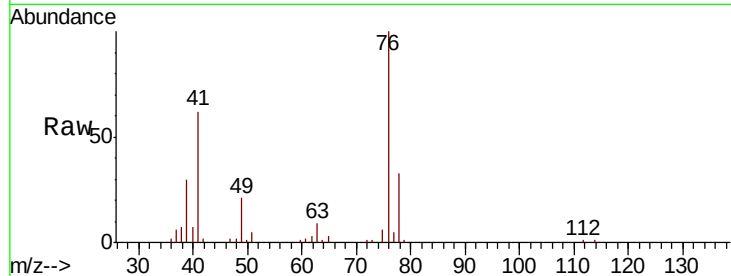




#57
 1,3-Dichloropropane
 Concen: 18.577 ug/l
 RT: 11.40 min Scan# 1014
 Delta R.T. -0.02 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

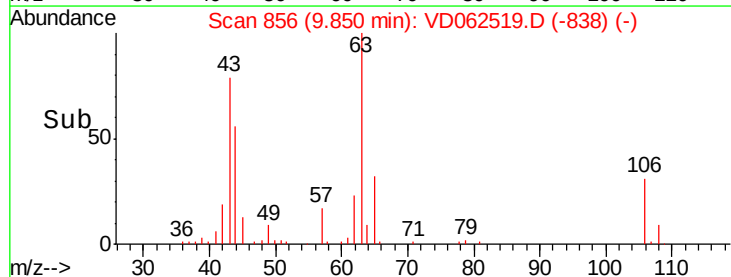
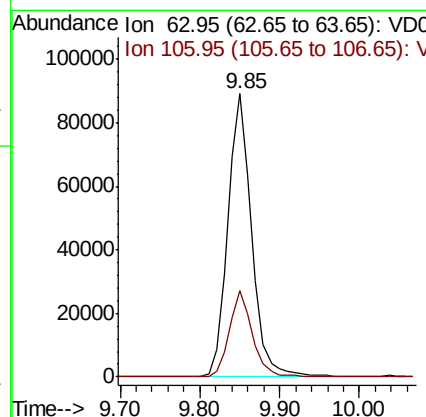
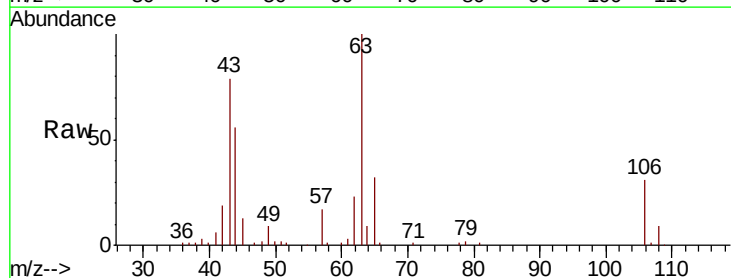
Instrument :
 MSVOA_D
 ClientSampleId :

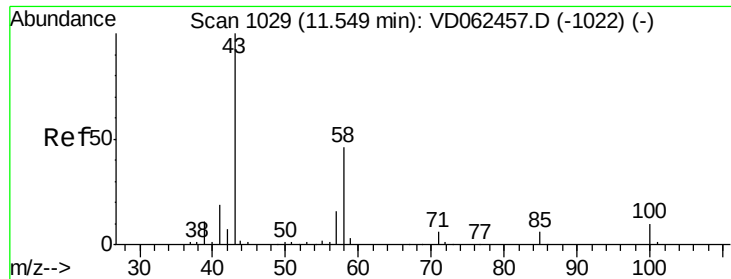
Tot Ion: 76 Resp: 96901
 Ion Ratio Lower Upper
 76 100
 78 32.9 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.173 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. -0.03 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion: 63 Resp: 187028
 Ion Ratio Lower Upper
 63 100
 106 30.6 22.6 34.0

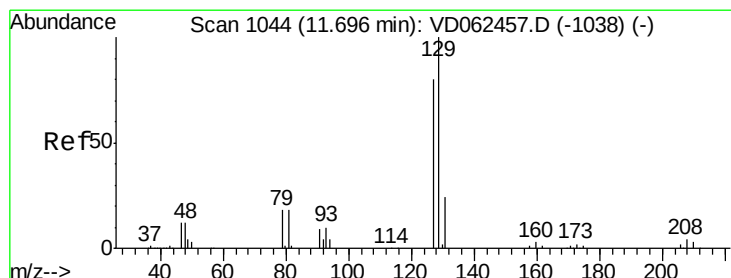
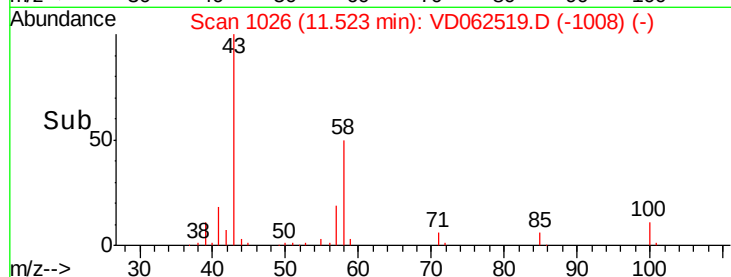
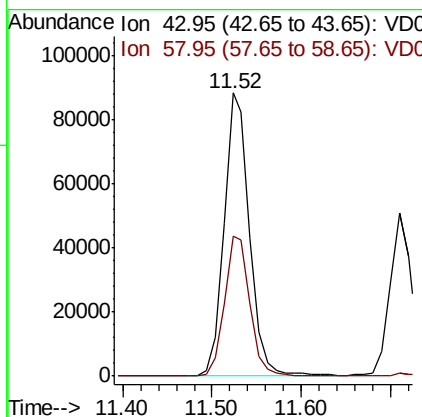
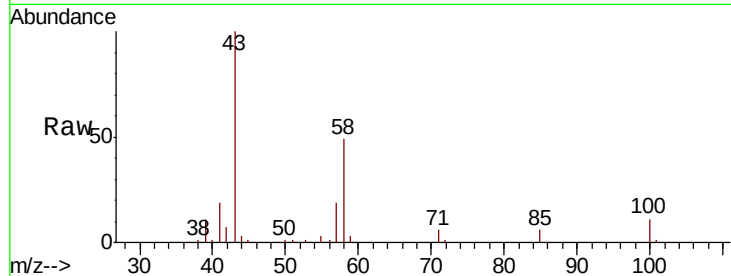




#59
2-Hexanone
Concen: 95.504 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.03 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

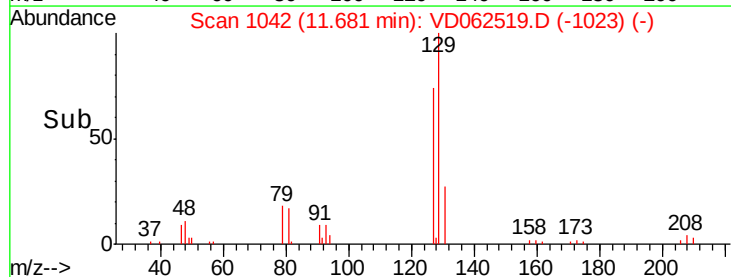
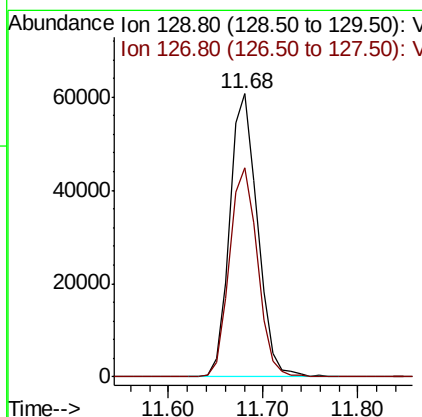
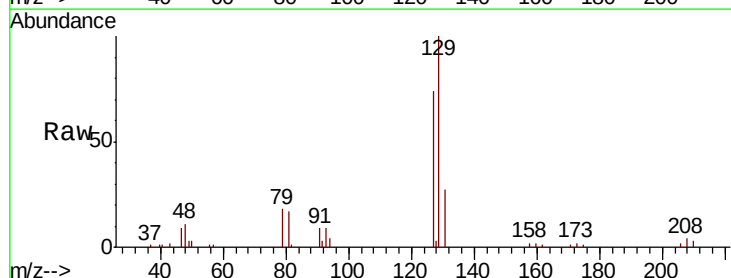
Instrument :
MSVOA_D
ClientSampled :

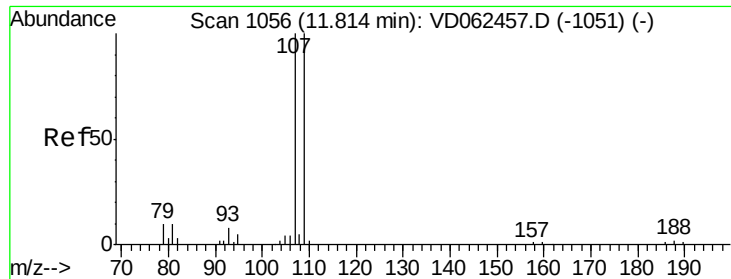
Tot Ion: 43 Resp: 176608
Ion Ratio Lower Upper
43 100
58 49.4 25.4 76.4



#60
Dibromochloromethane
Concen: 18.857 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 129 Resp: 123188
Ion Ratio Lower Upper
129 100
127 74.0 38.0 113.9





#61

1,2-Dibromoethane

Concen: 20.199 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

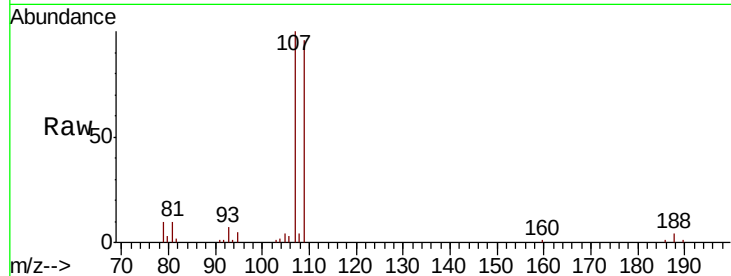
ClientSampled :

Tot Ion:107 Resp: 84666

Ion Ratio Lower Upper

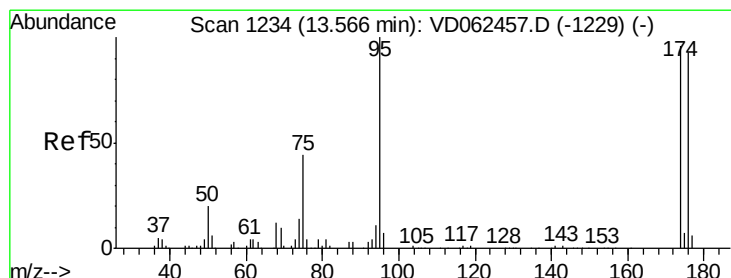
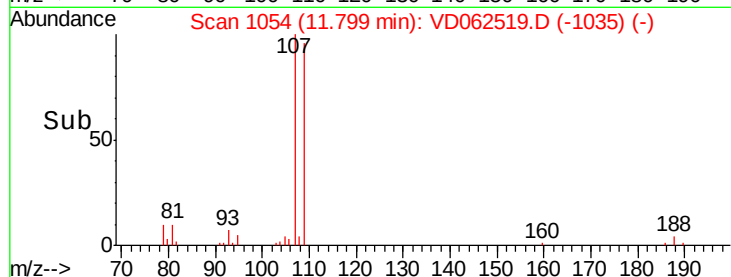
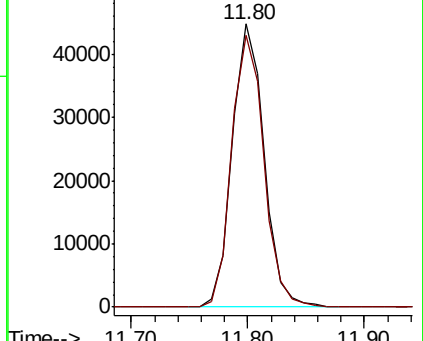
107 100

109 96.1 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 45.914 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

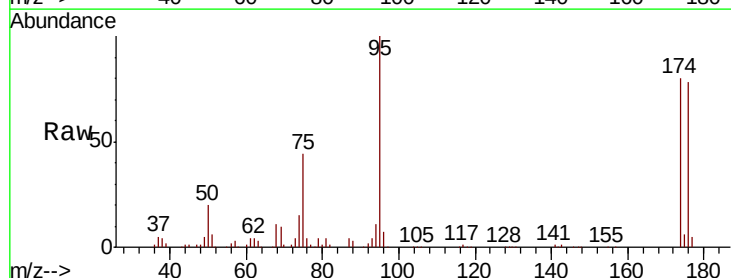
Tgt Ion: 95 Resp: 309942

Ion Ratio Lower Upper

95 100

174 79.6 0.0 181.8

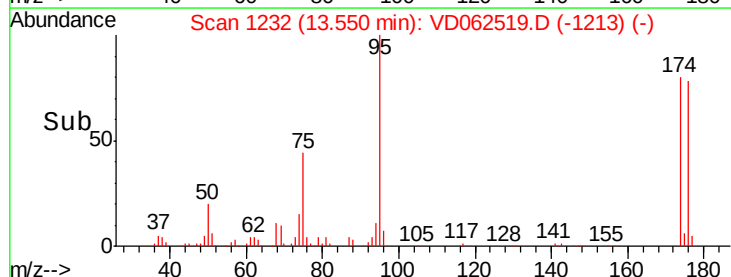
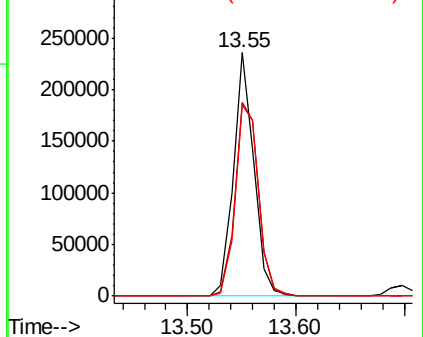
176 78.4 0.0 174.4

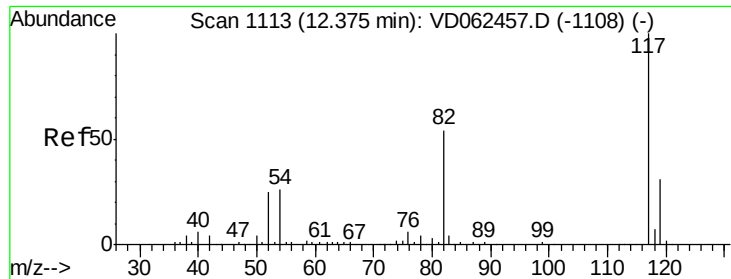


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

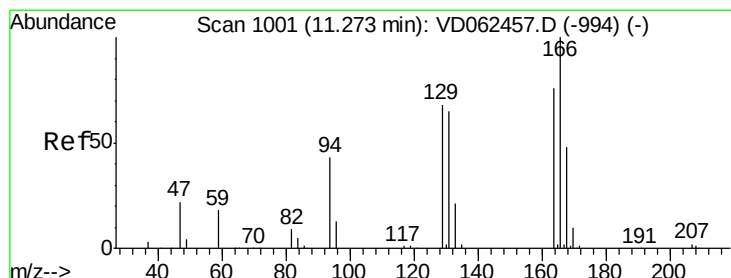
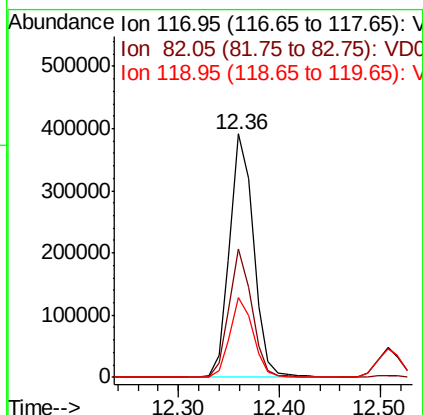
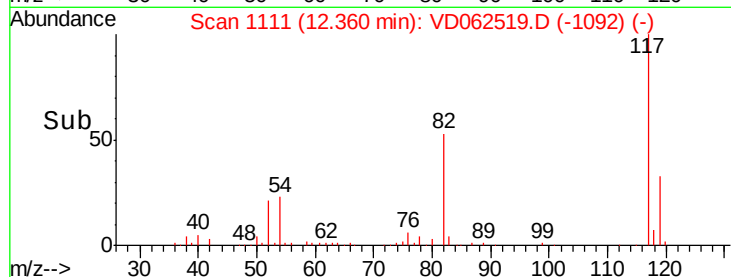
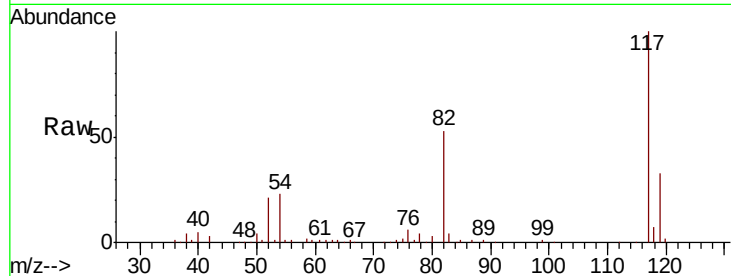




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

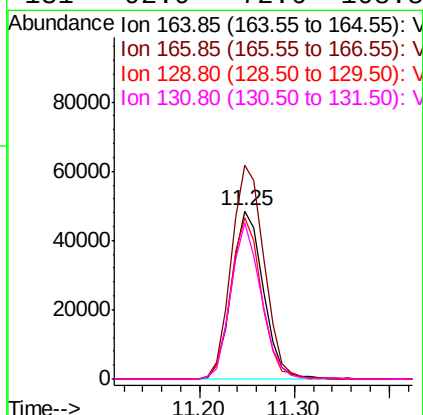
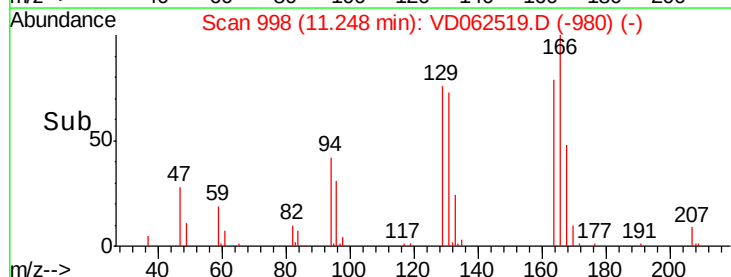
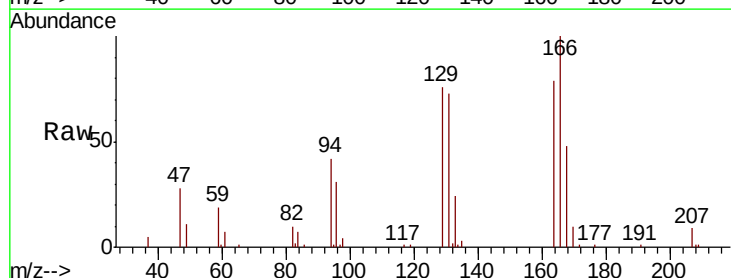
Instrument :
MSVOA_D
ClientSampleId :

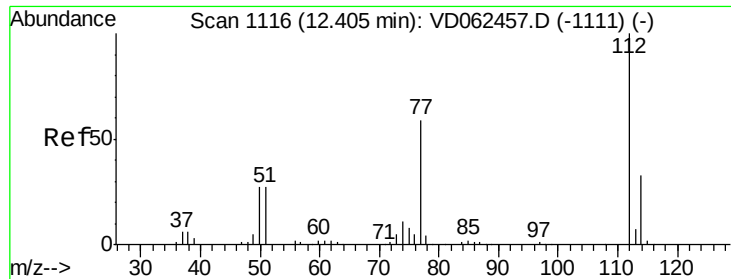
Tot Ion:117 Resp: 645586
Ion Ratio Lower Upper
117 100
82 52.8 36.2 54.2
119 33.0 26.2 39.4



#64
Tetrachloroethene
Concen: 20.722 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.03 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion:164 Resp: 112014
Ion Ratio Lower Upper
164 100
166 127.3 101.5 152.3
129 96.3 74.6 112.0
131 92.9 72.6 108.8

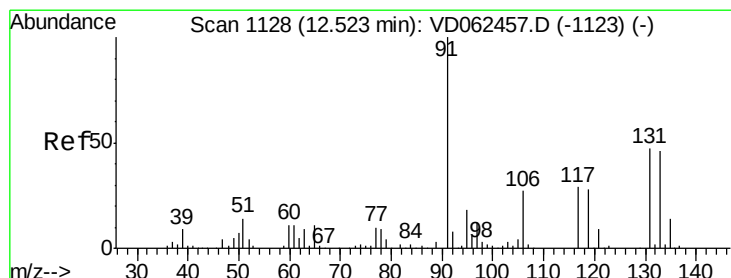
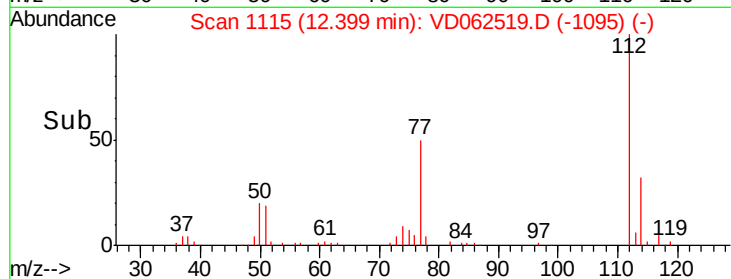
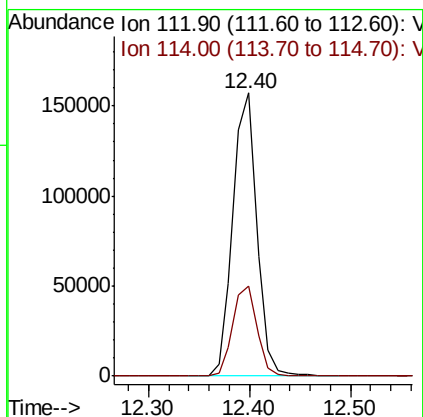
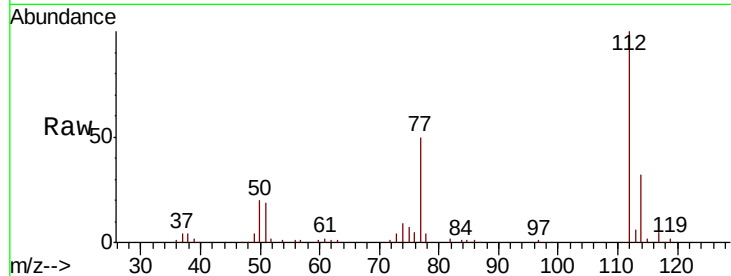




#65
Chlorobenzene
Concen: 20.962 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.01 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

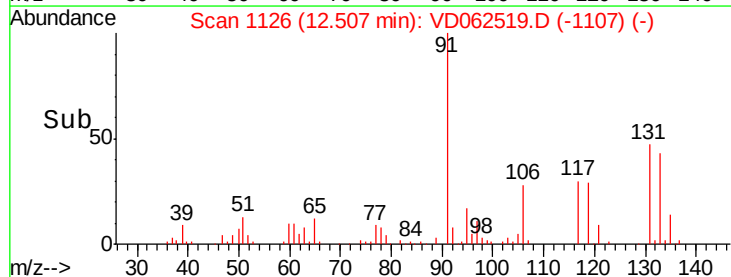
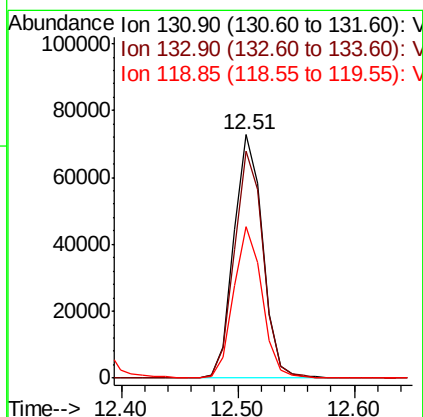
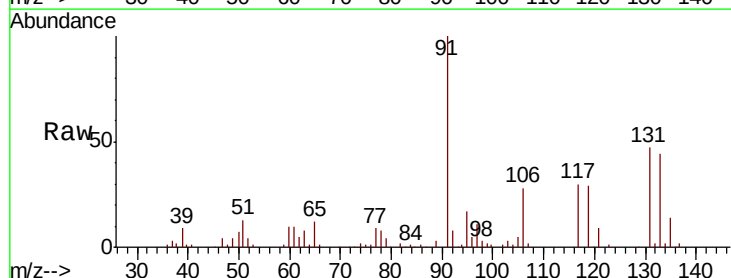
Instrument :
MSVOA_D
ClientSampleId :

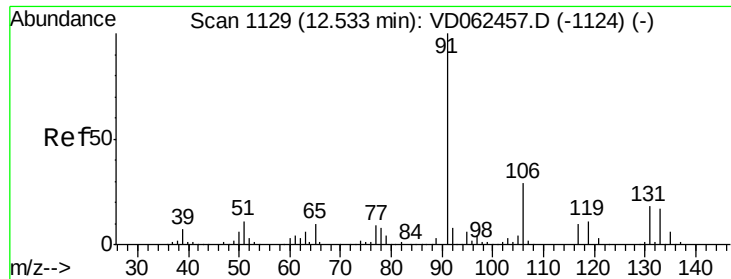
Tot Ion:112 Resp: 260245
Ion Ratio Lower Upper
112 100
114 31.9 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 21.777 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion:131 Resp: 124800
Ion Ratio Lower Upper
131 100
133 93.3 48.6 145.8
119 62.0 34.7 104.1

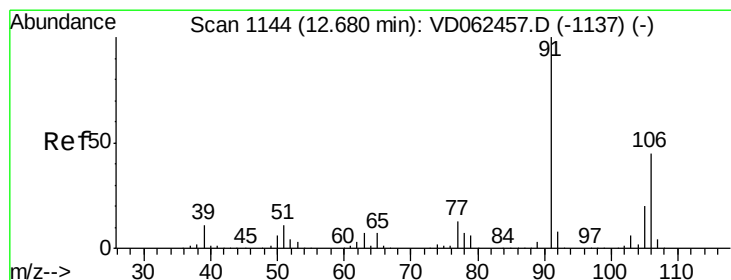
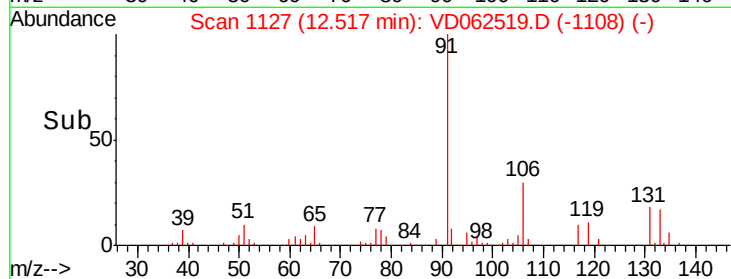
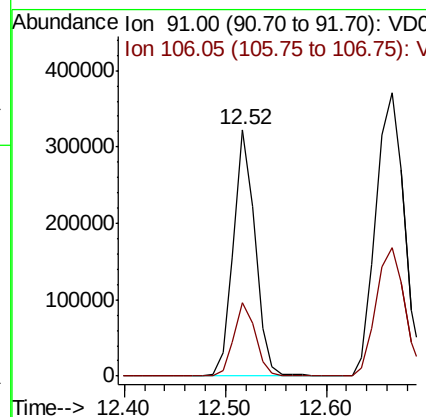
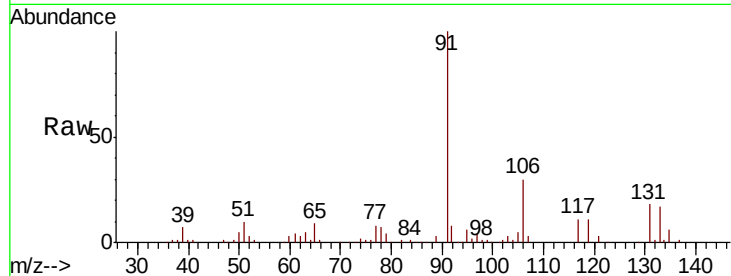




#67
Ethyl Benzene
Concen: 22.534 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

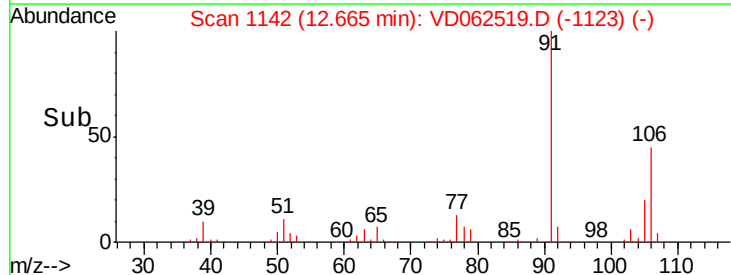
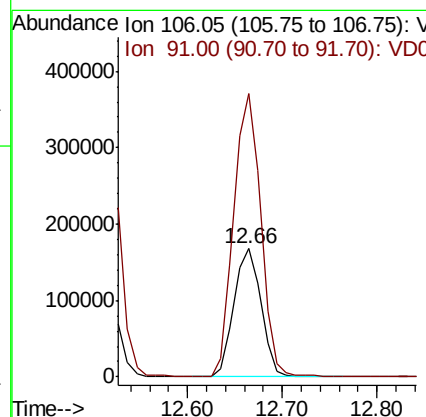
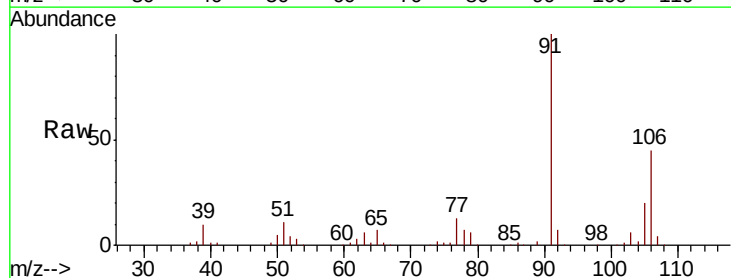
Instrument :
MSVOA_D
ClientSampled :

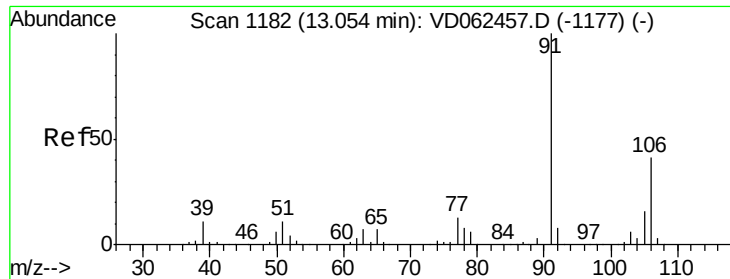
Tot Ion: 91 Resp: 481860
Ion Ratio Lower Upper
91 100
106 29.7 24.7 37.1



#68
m/p-Xylenes
Concen: 43.275 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion: 106 Resp: 332179
Ion Ratio Lower Upper
106 100
91 220.5 164.0 246.0

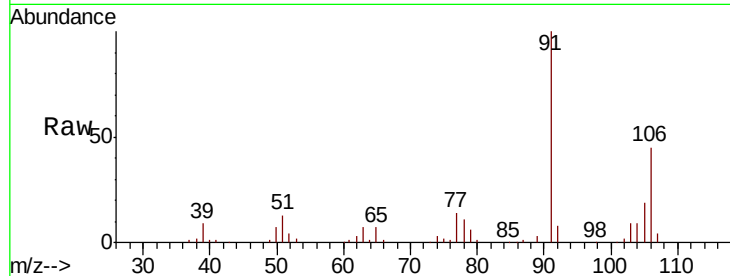




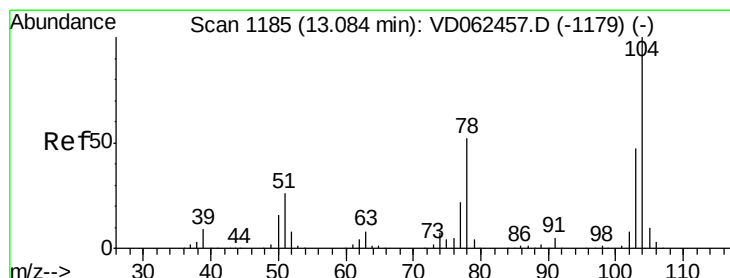
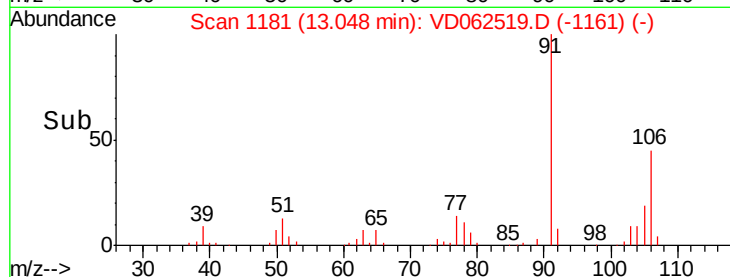
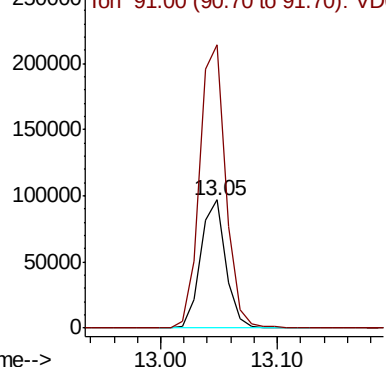
#69
o-Xylene
Concen: 20.081 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 145435
Ion Ratio Lower Upper
106 100
91 220.8 106.7 319.9

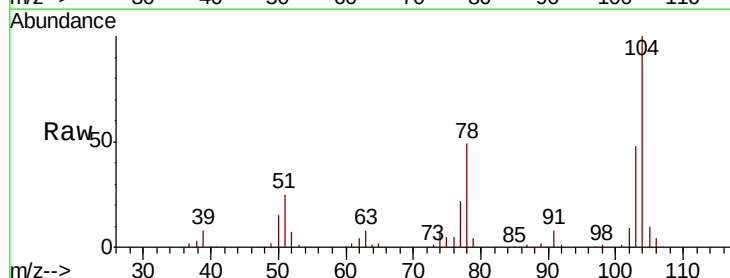


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

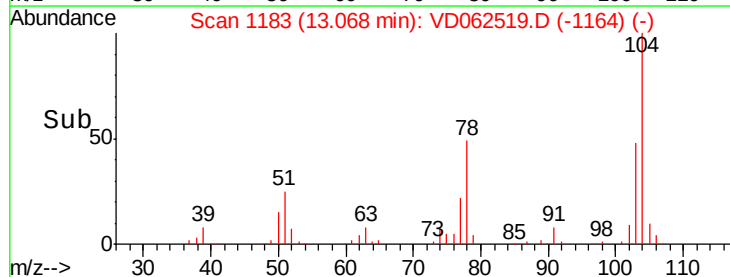
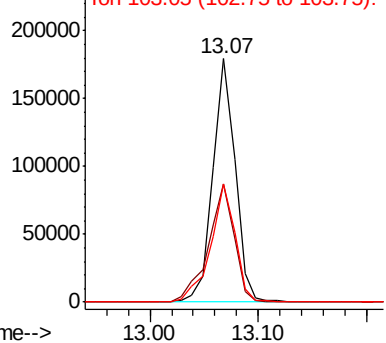


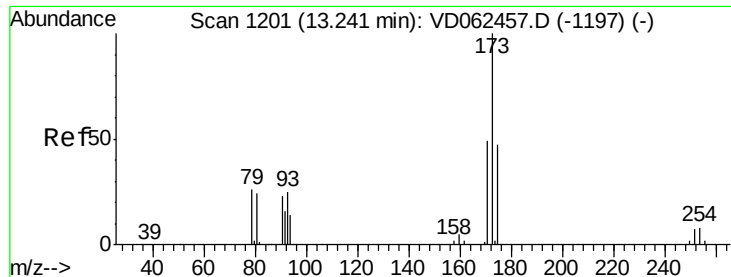
#70
Styrene
Concen: 20.890 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion:104 Resp: 257378
Ion Ratio Lower Upper
104 100
78 48.7 35.4 53.2
103 48.3 37.5 56.3



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





#71

Bromoform

Concen: 20.308 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampled :

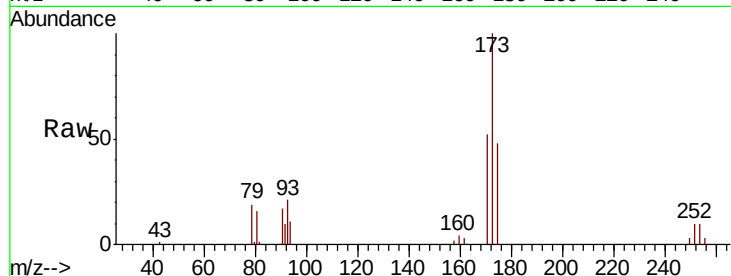
Tot Ion:173 Resp: 77291

Ion Ratio Lower Upper

173 100

175 47.6 24.4 73.4

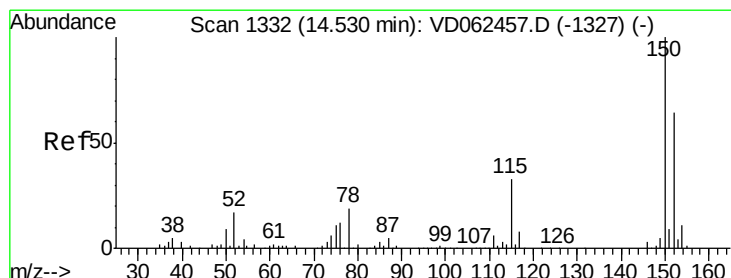
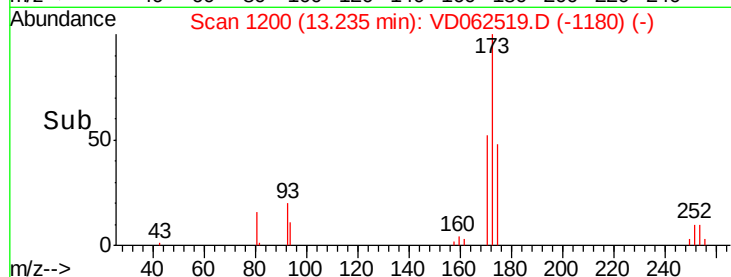
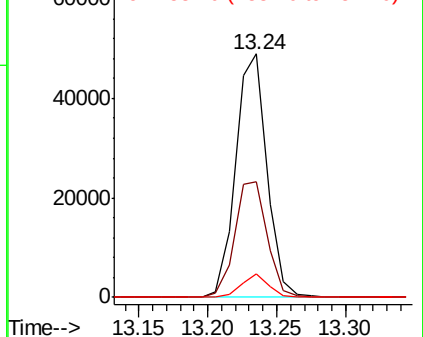
254 9.7 5.4 8.2#



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

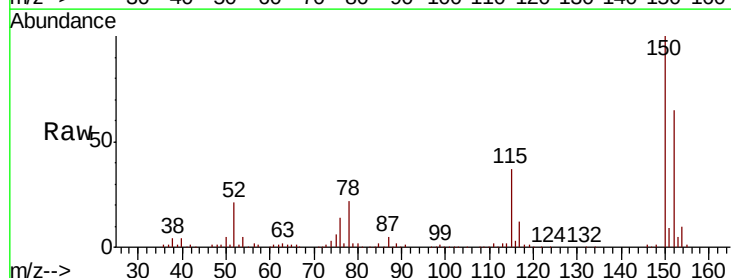
Tgt Ion:152 Resp: 343600

Ion Ratio Lower Upper

152 100

115 56.9 30.9 92.7

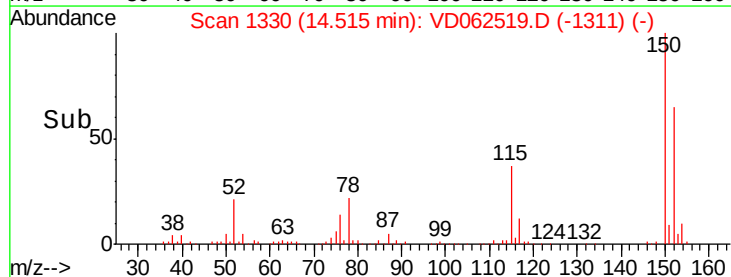
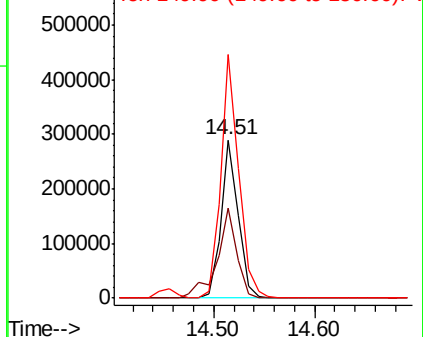
150 154.1 0.0 314.8

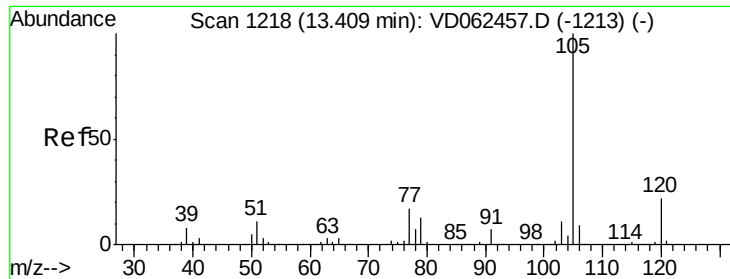


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.370 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

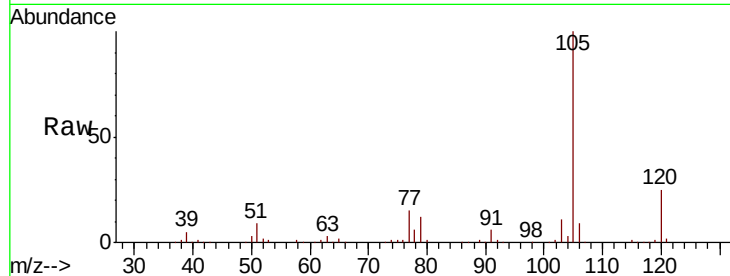
ClientSampleId :

Tot Ion:105 Resp: 462843

Ion Ratio Lower Upper

105 100

120 25.3 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

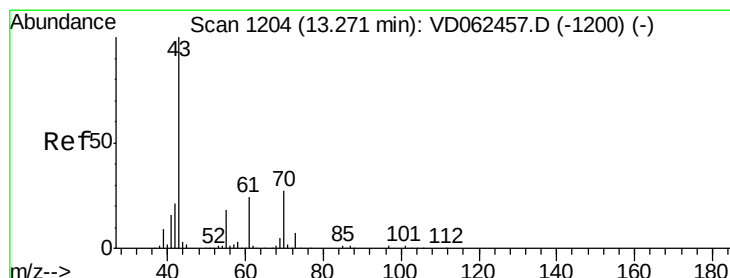
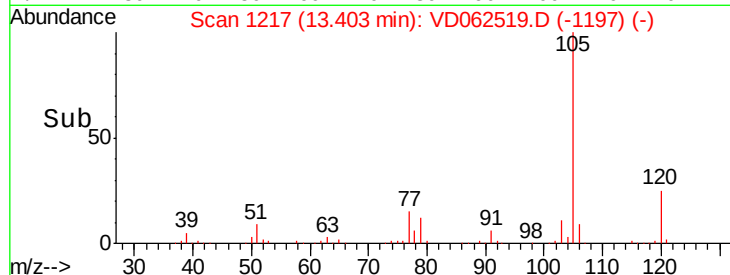
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 19.208 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Tgt Ion: 43 Resp: 102749

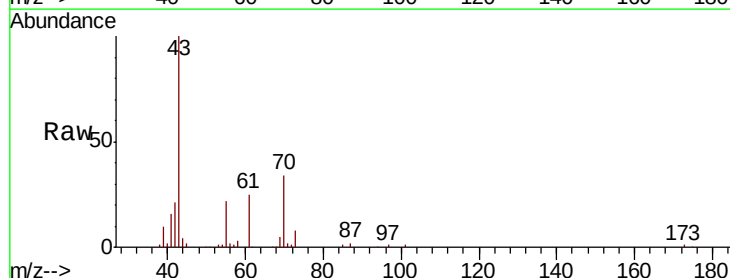
Ion Ratio Lower Upper

43 100

70 34.0 24.2 36.4

55 21.6 16.0 24.0

61 24.7 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

120000

100000

80000

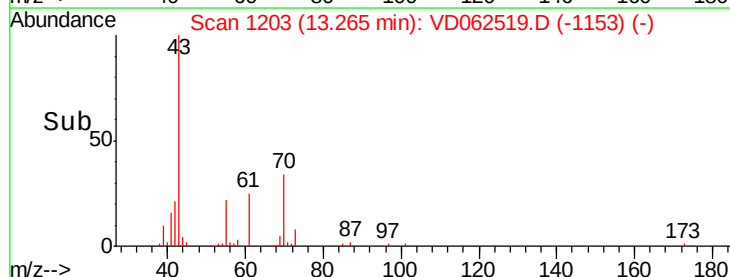
60000

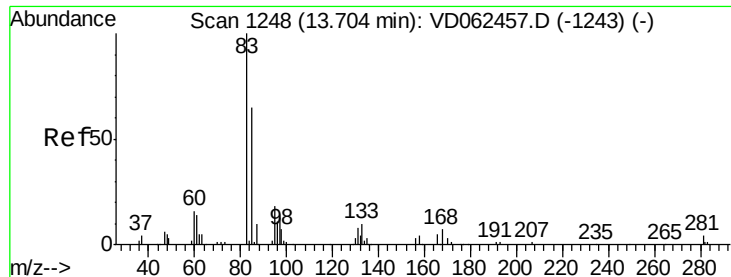
40000

20000

0

Time--> 13.20 13.25 13.30 13.35





#75

1,1,2,2-Tetrachloroethane

Concen: 19.138 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

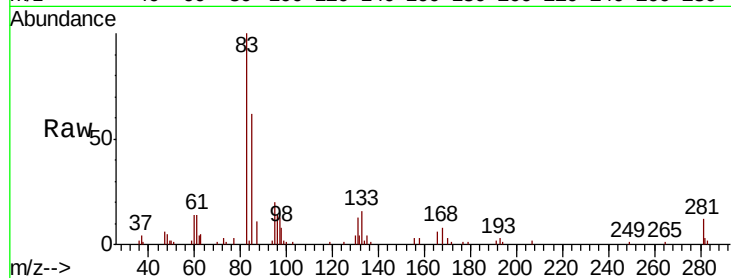
Tot Ion: 83 Resp: 74779

Ion Ratio Lower Upper

83 100

131 13.3 5.0 14.9

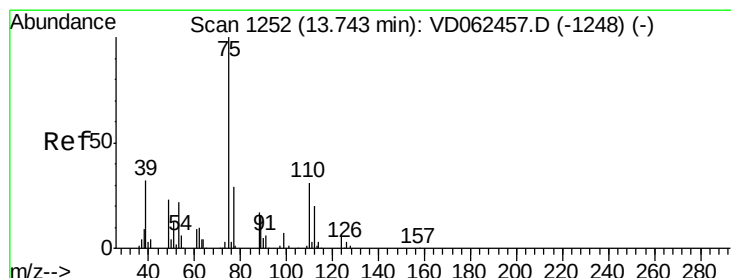
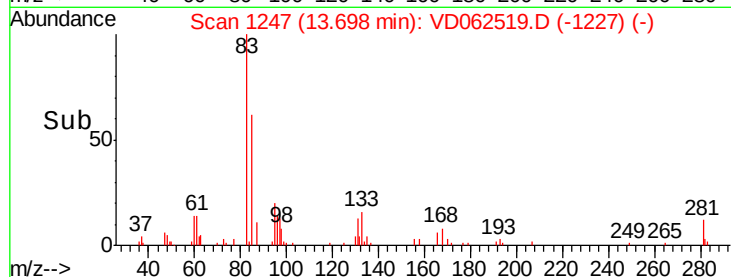
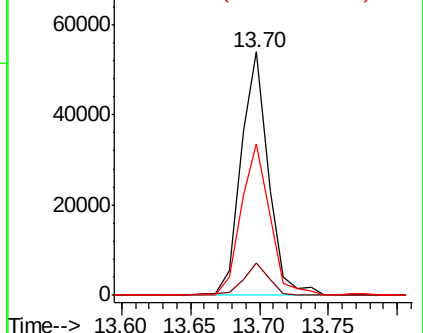
85 62.3 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.277 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.02 min

Lab File: VD062519.D

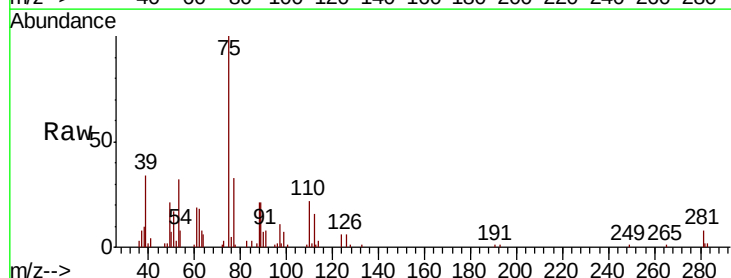
Acq: 23 May 2019 13:54

Tgt Ion: 75 Resp: 82067

Ion Ratio Lower Upper

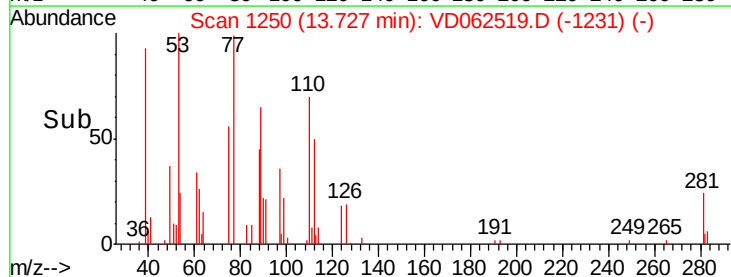
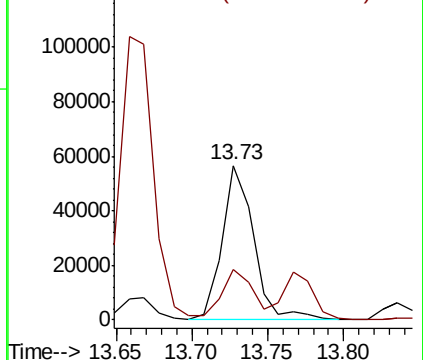
75 100

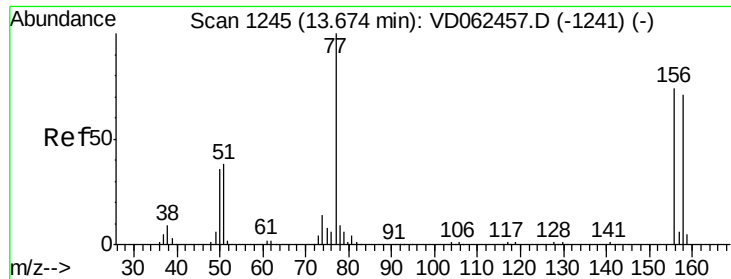
77 32.8 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.080 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

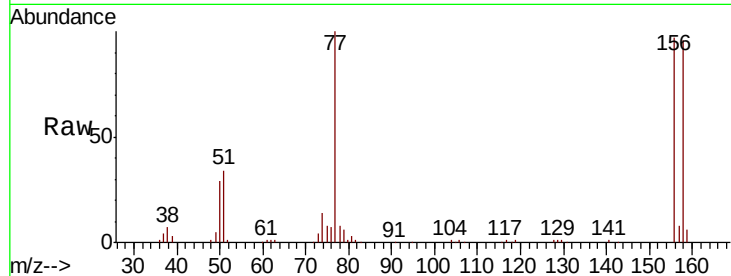
Tot Ion:156 Resp: 135659

Ion Ratio Lower Upper

156 100

77 103.4 53.1 159.4

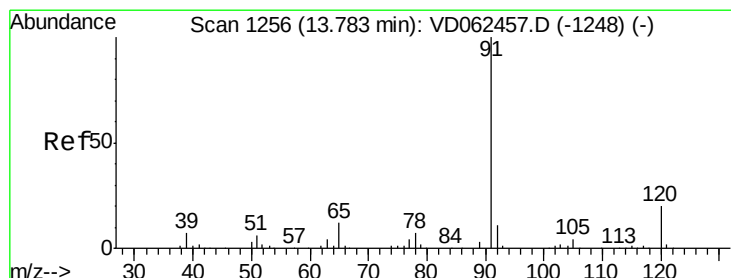
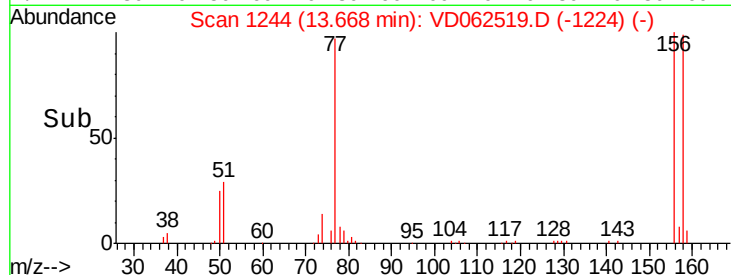
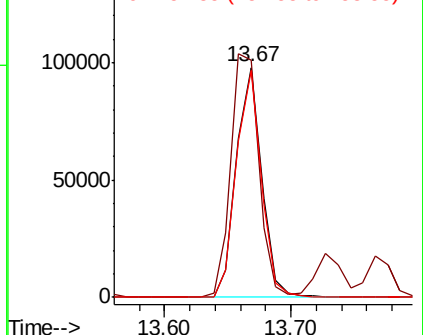
158 98.9 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 22.330 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.02 min

Lab File: VD062519.D

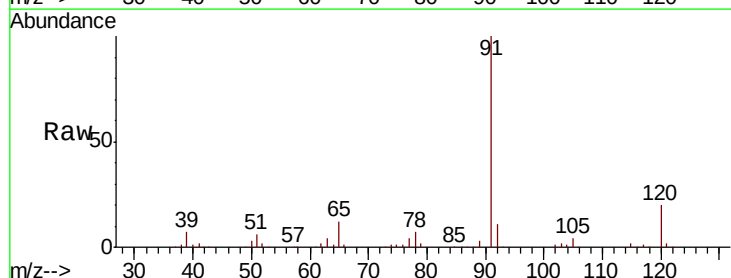
Acq: 23 May 2019 13:54

Tgt Ion: 91 Resp: 560208

Ion Ratio Lower Upper

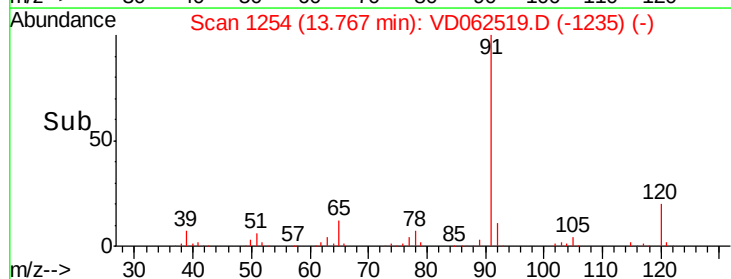
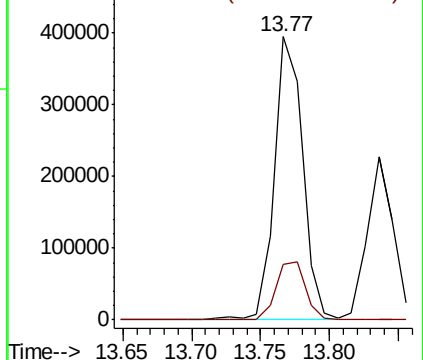
91 100

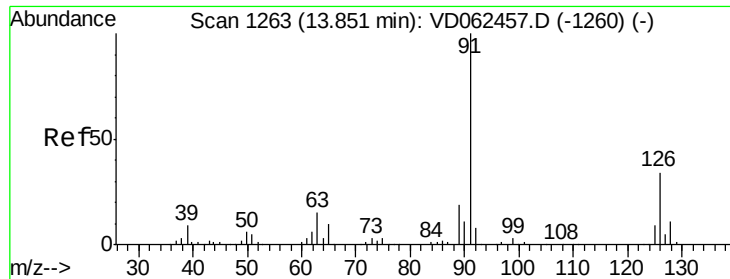
120 19.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 19.821 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

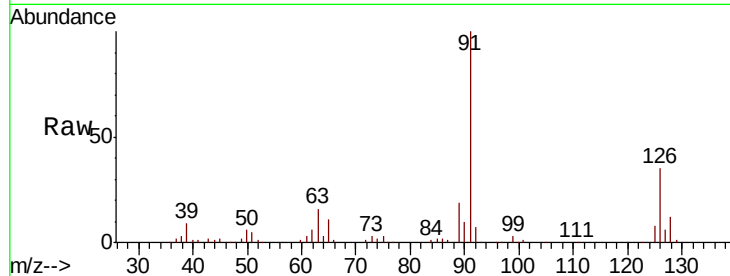
ClientSampled :

Tot Ion: 91 Resp: 301771

Ion Ratio Lower Upper

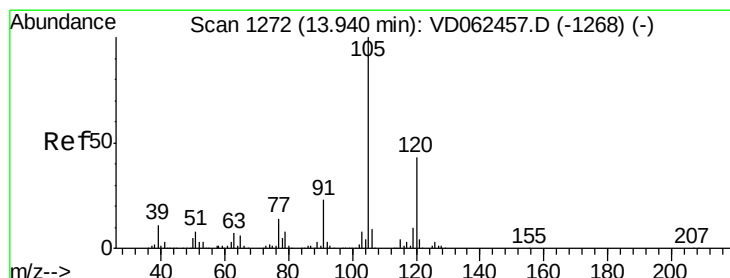
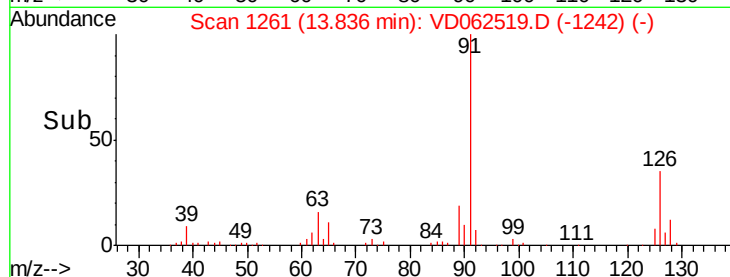
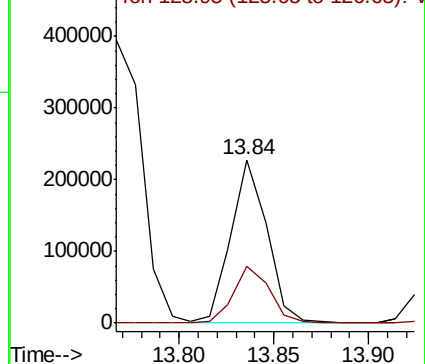
91 100

126 34.6 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 21.364 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD062519.D

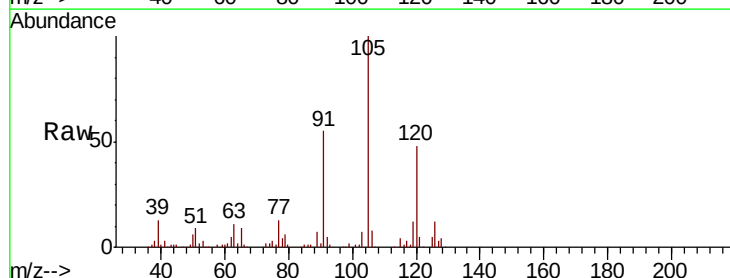
Acq: 23 May 2019 13:54

Tgt Ion: 105 Resp: 400646

Ion Ratio Lower Upper

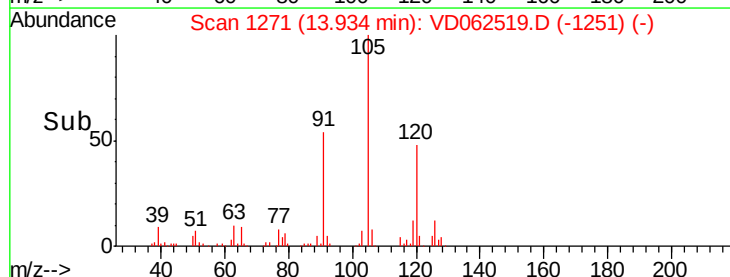
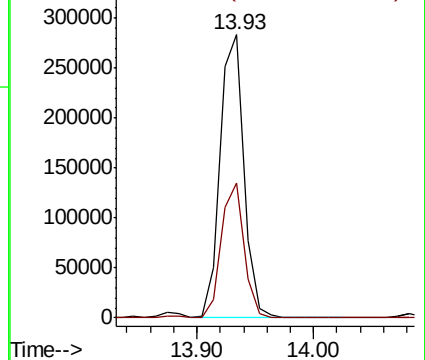
105 100

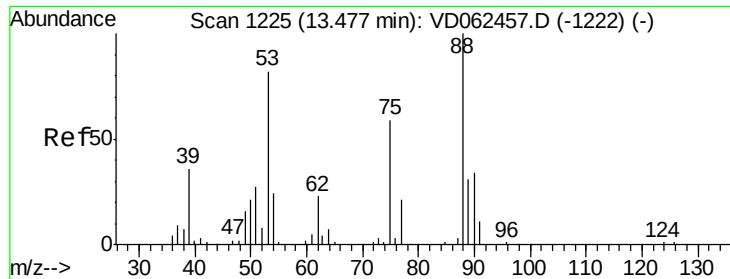
120 47.7 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 20.845 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

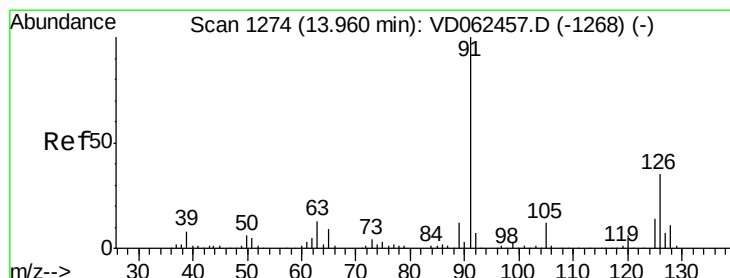
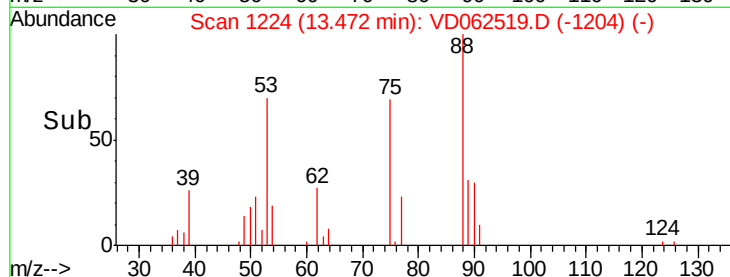
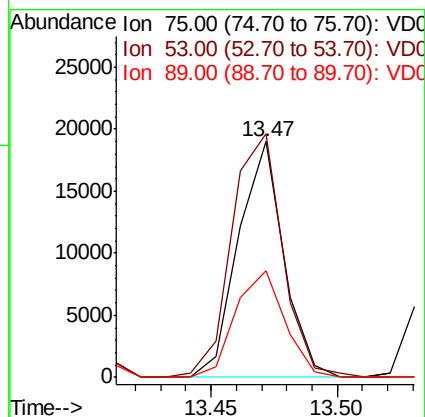
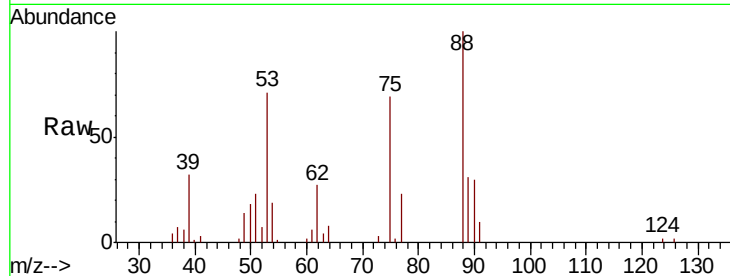
Tot Ion: 75 Resp: 23793

Ion Ratio Lower Upper

75 100

53 103.5 65.8 98.8#

89 45.6 35.0 52.6



#82

4-Chlorotoluene

Concen: 20.995 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VD062519.D

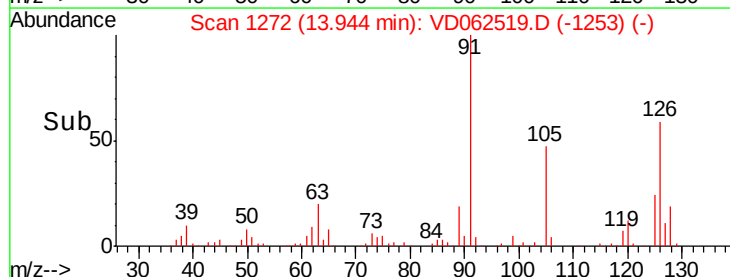
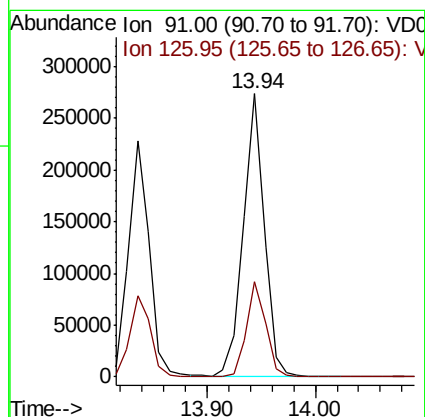
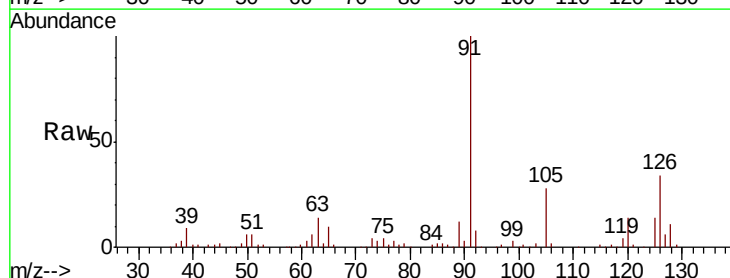
Acq: 23 May 2019 13:54

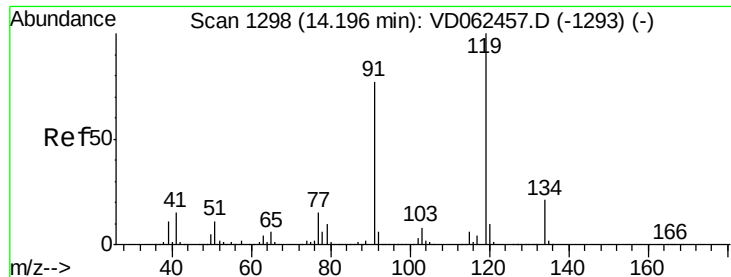
Tgt Ion: 91 Resp: 368112

Ion Ratio Lower Upper

91 100

126 33.6 19.1 57.5

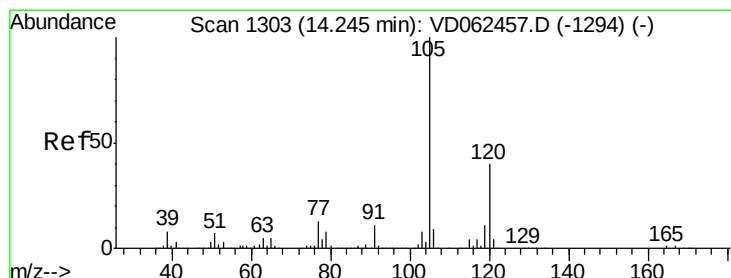
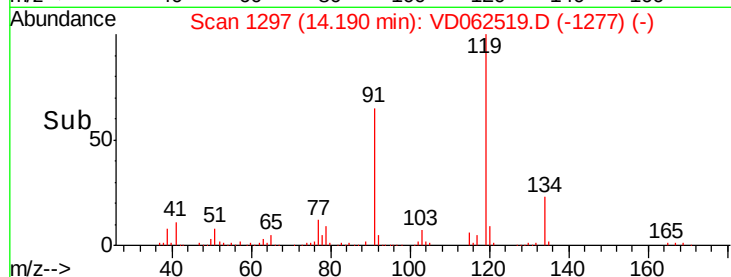
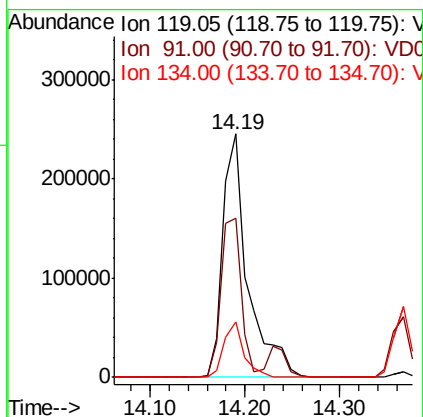
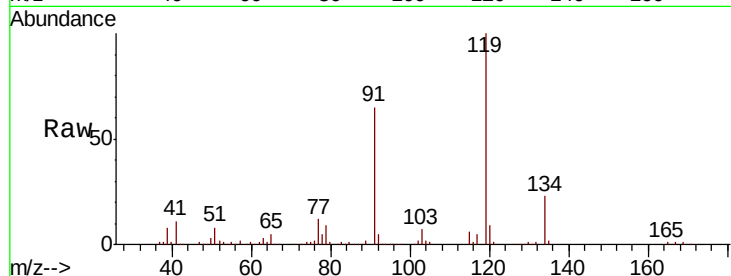




#83
 tert-Butylbenzene
 Concen: 21.522 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

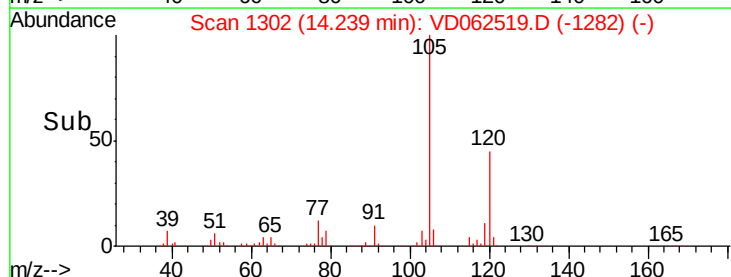
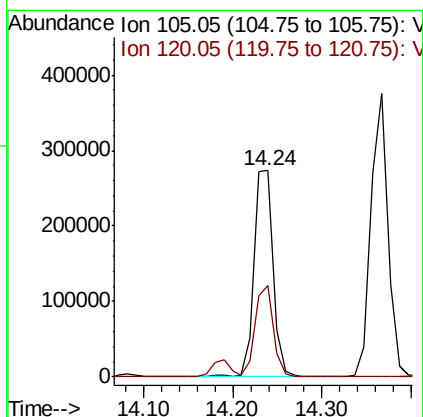
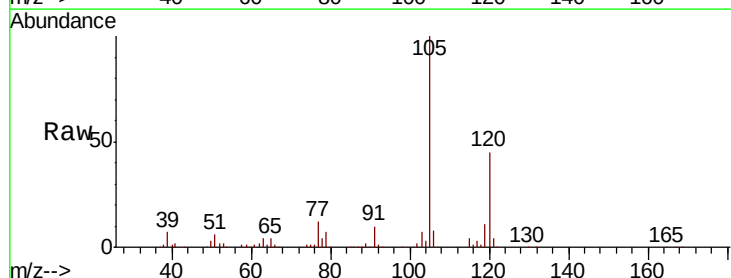
Instrument :
 MSVOA_D
 ClientSampleId :

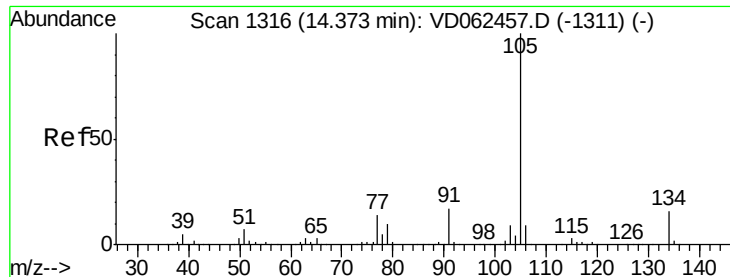
Tot Ion:119 Resp: 447680
 Ion Ratio Lower Upper
 119 100
 91 65.2 34.2 102.6
 134 22.9 12.0 36.0



#84
 1,2,4-Trimethylbenzene
 Concen: 20.899 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion:105 Resp: 401586
 Ion Ratio Lower Upper
 105 100
 120 44.6 23.1 69.2





#85

sec-Butylbenzene

Concen: 22.565 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

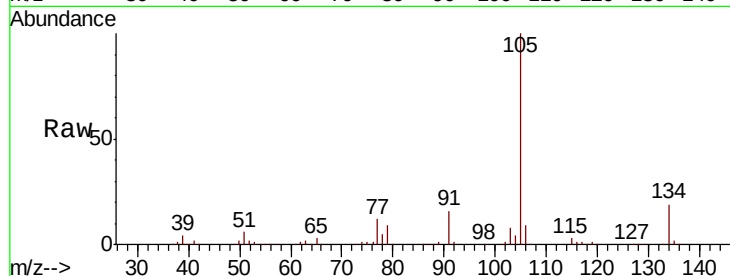
ClientSampleId :

Tot Ion:105 Resp: 489444

Ion Ratio Lower Upper

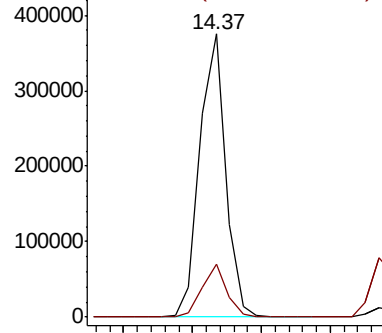
105 100

134 18.9 8.9 26.7

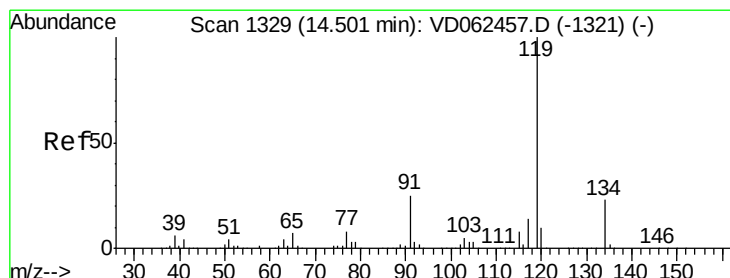
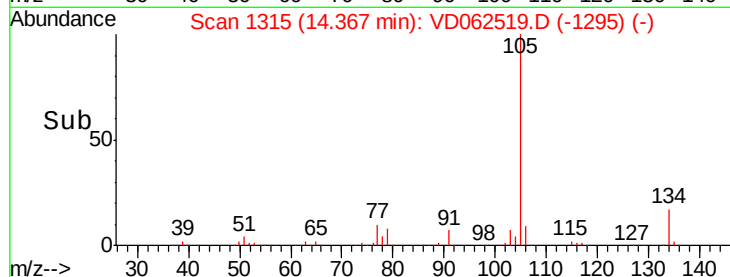


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



Time-->



#86

p-Isopropyltoluene

Concen: 22.459 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.02 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

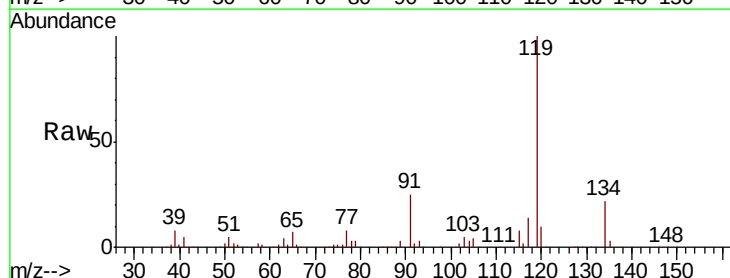
Tgt Ion:119 Resp: 441462

Ion Ratio Lower Upper

119 100

134 22.3 12.8 38.3

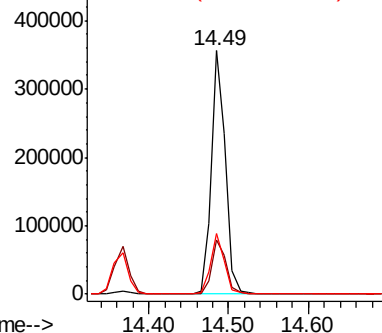
91 24.8 10.7 32.1



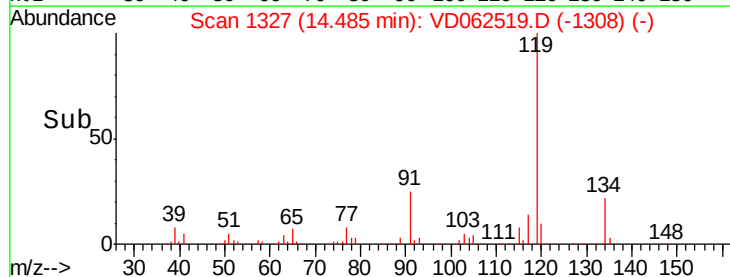
Abundance Ion 119.05 (118.75 to 119.75): V

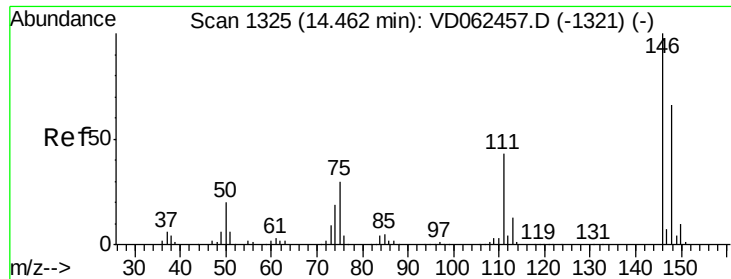
Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V



Time-->

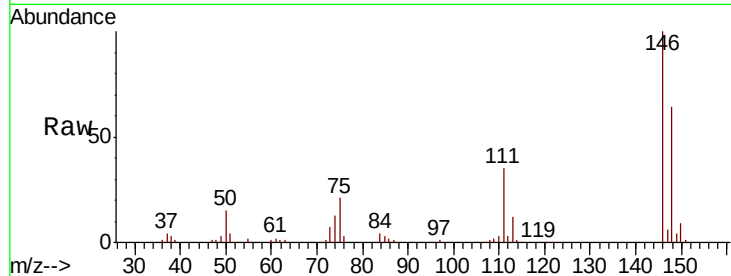




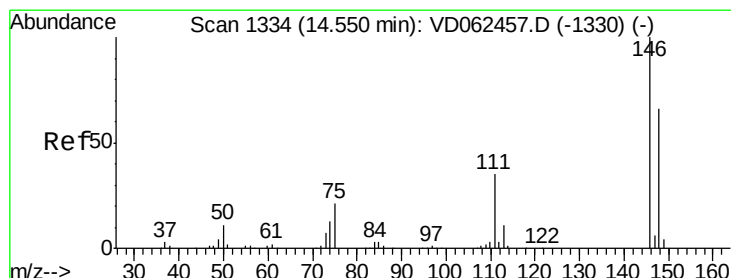
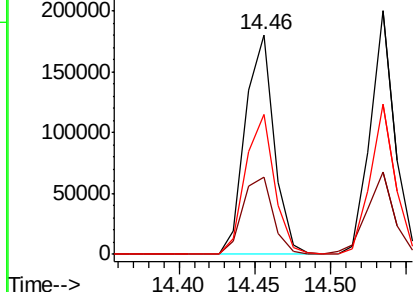
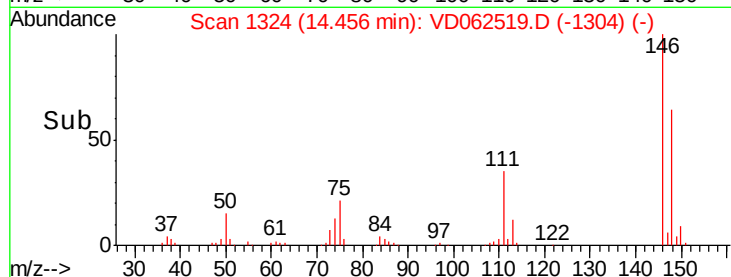
#87
 1,3-Dichlorobenzene
 Concen: 22.114 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.1	20.0	60.0
148	63.6	31.8	95.4

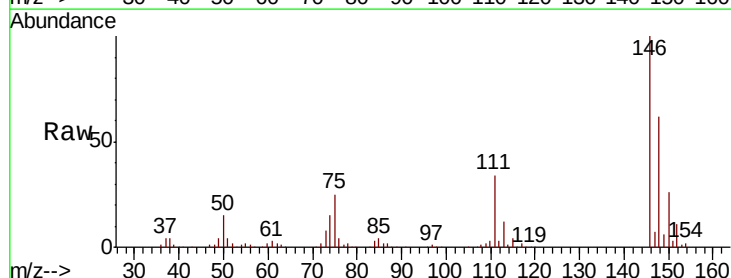


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

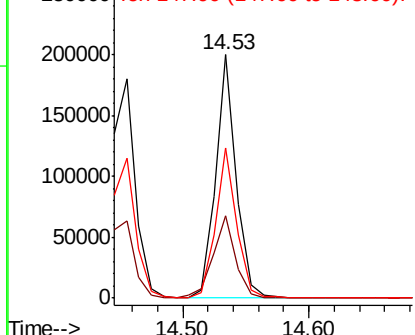
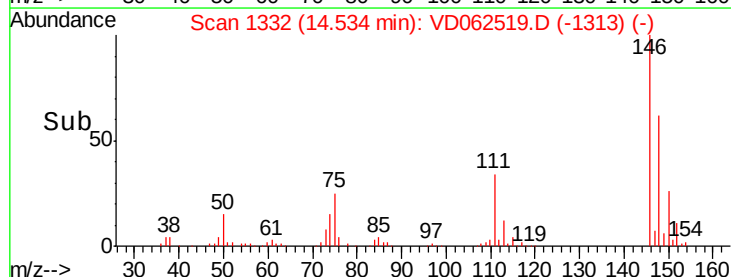


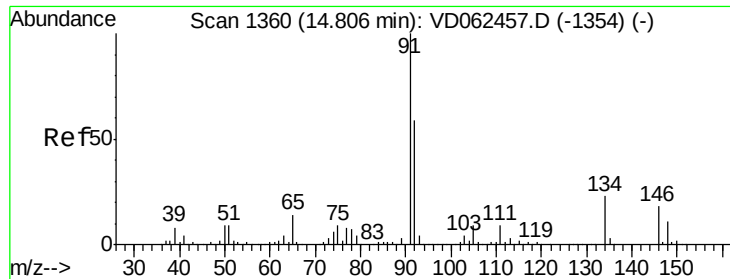
#88
 1,4-Dichlorobenzene
 Concen: 21.709 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	20.2	60.5
148	61.9	32.0	96.2



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: 21.191 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062519.D

Acq: 23 May 2019 13:54

Instrument :

MSVOA_D

ClientSampleId :

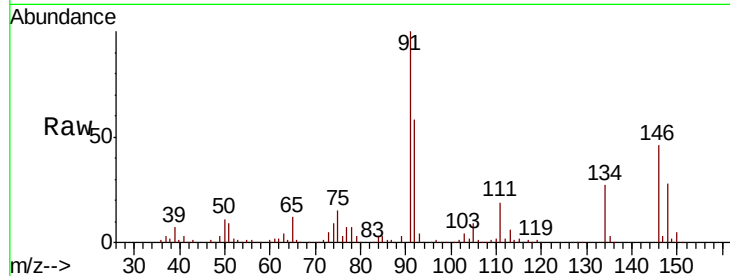
Tot Ion: 91 Resp: 401993

Ion Ratio Lower Upper

91 100

92 58.4 30.3 91.0

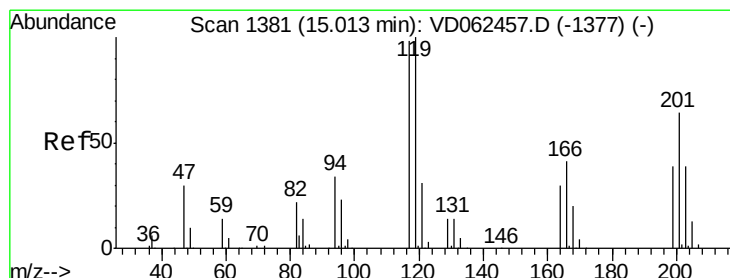
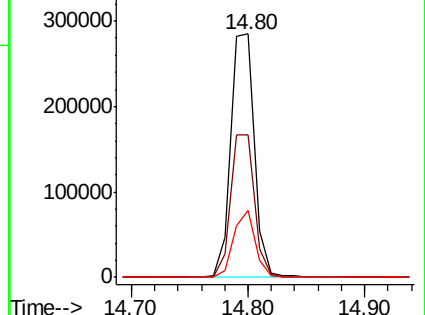
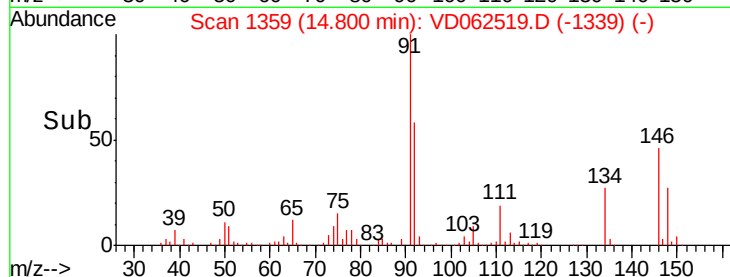
134 27.5 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 21.187 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD062519.D

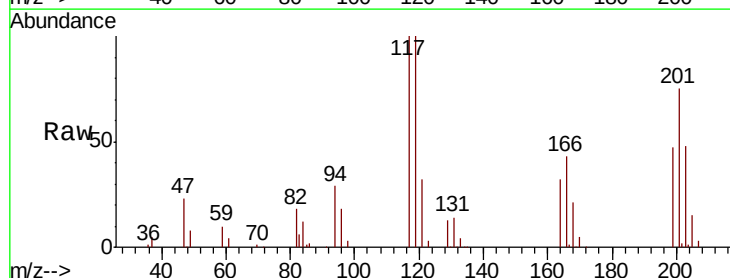
Acq: 23 May 2019 13:54

Tgt Ion: 117 Resp: 115091

Ion Ratio Lower Upper

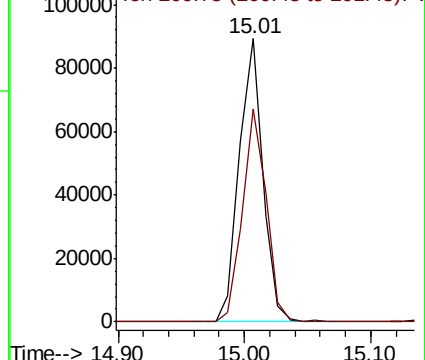
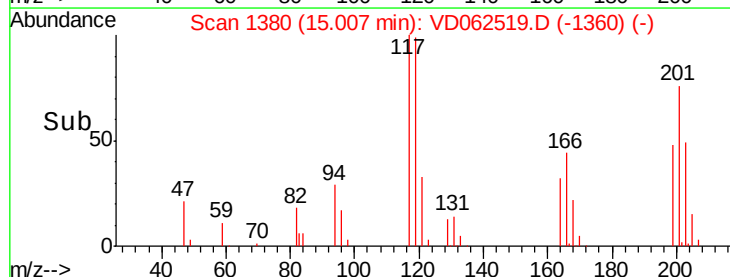
117 100

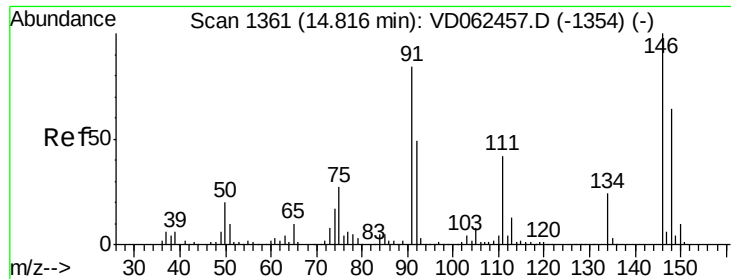
201 75.3 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

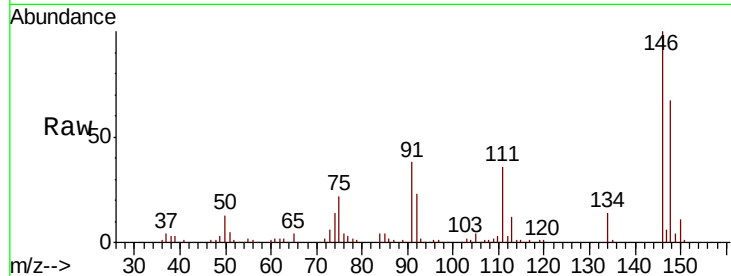




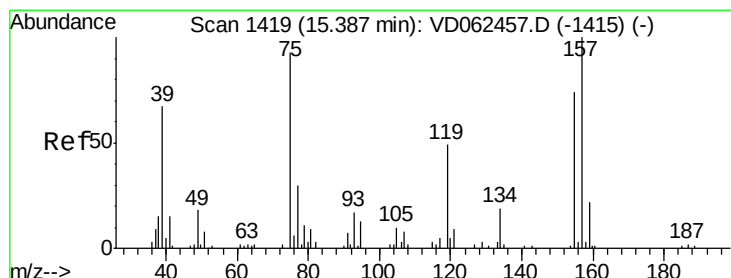
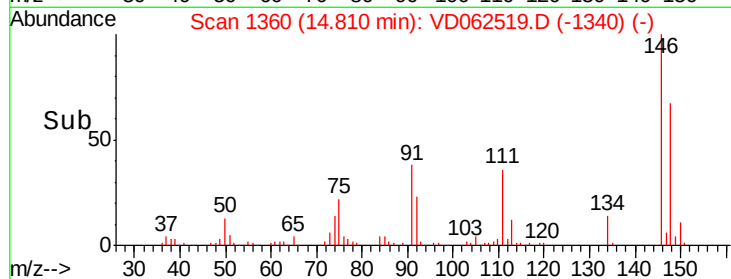
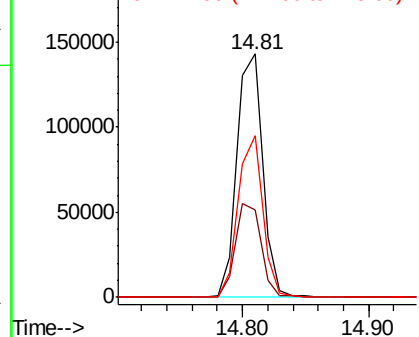
#91
 1,2-Dichlorobenzene
 Concen: 21.804 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.7	20.0	59.9
148	66.7	32.3	96.8

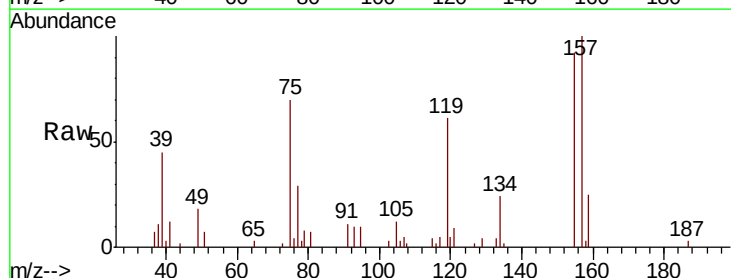


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

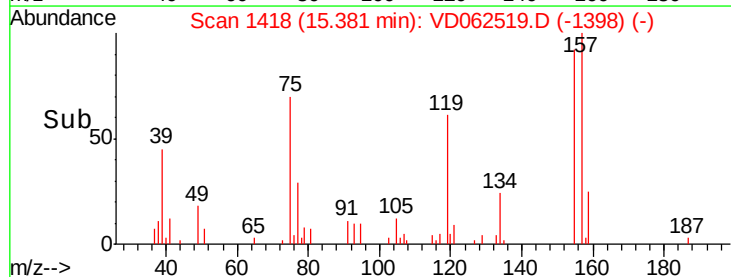
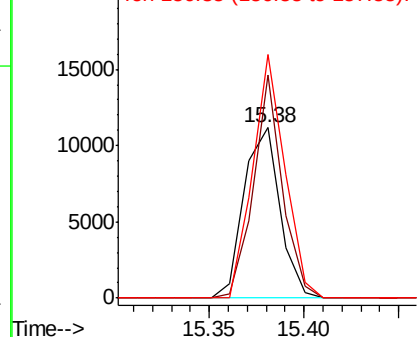


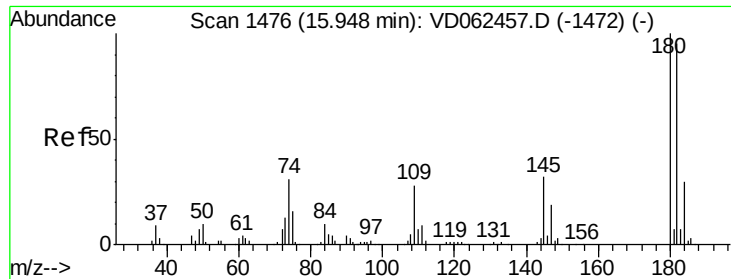
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.777 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	130.9	55.3	165.8
157	142.8	67.8	203.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

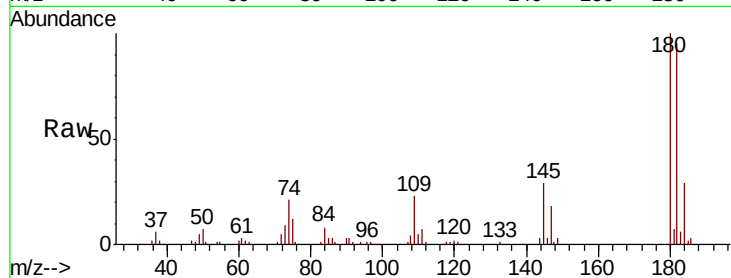




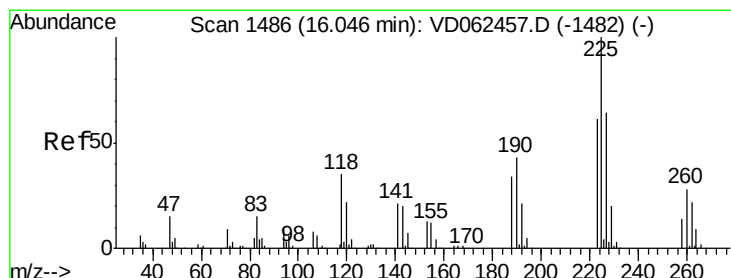
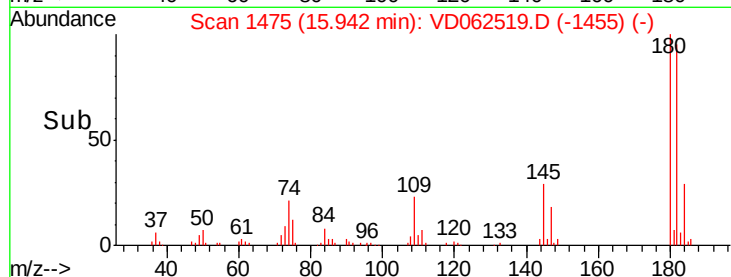
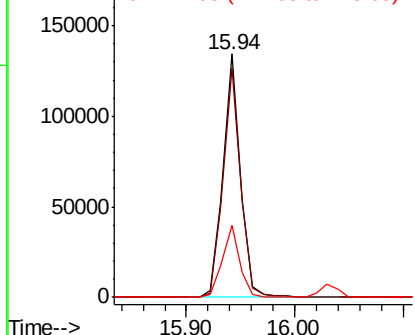
#93
 1,2,4-Trichlorobenzene
 Concen: 20.707 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	49.3	147.8
145	29.4	16.2	48.6

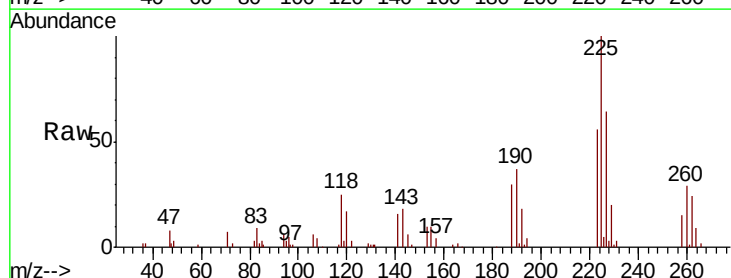


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

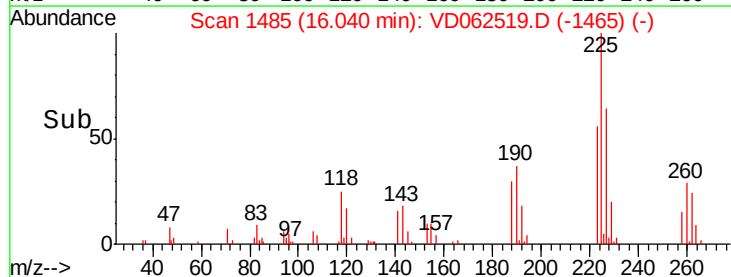
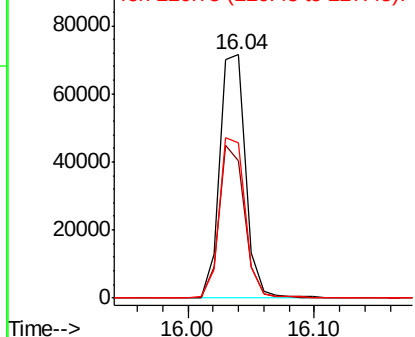


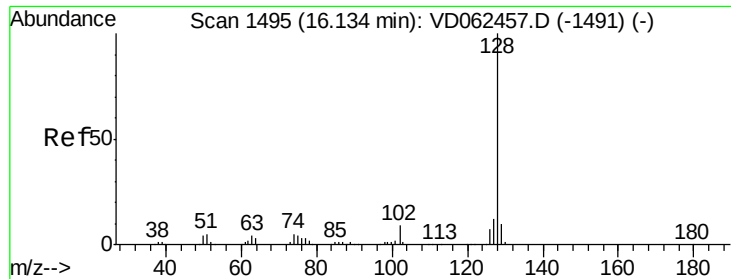
#94
 Hexachlorobutadiene
 Concen: 18.942 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD062519.D
 Acq: 23 May 2019 13:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	56.4	30.6	92.0
227	63.9	32.0	96.2



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

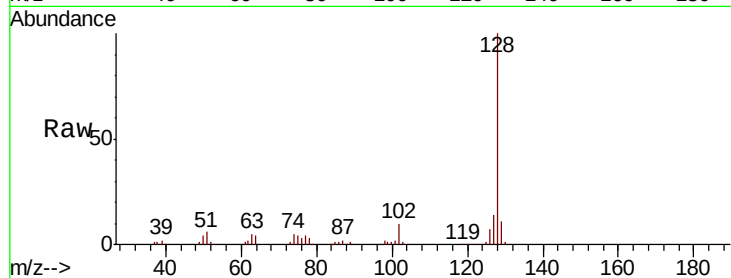




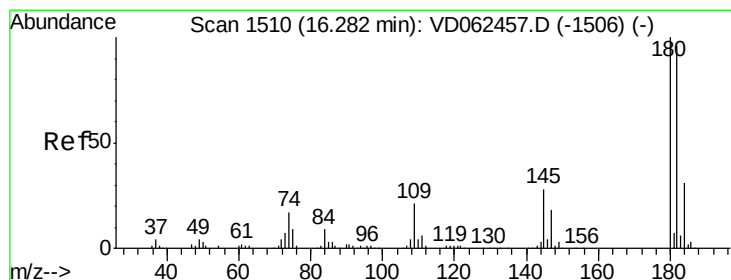
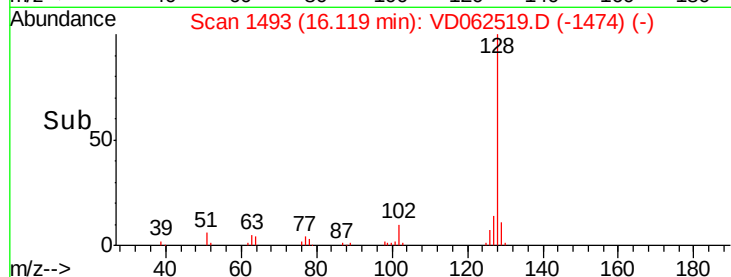
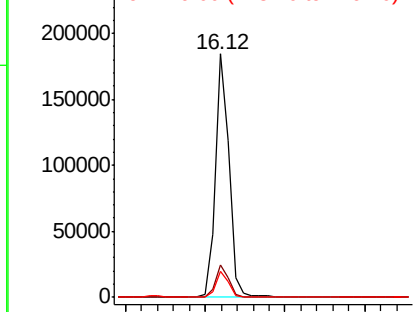
#95
Naphthalene
Concen: 22.421 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.8	14.8
129	10.6	8.8	13.2

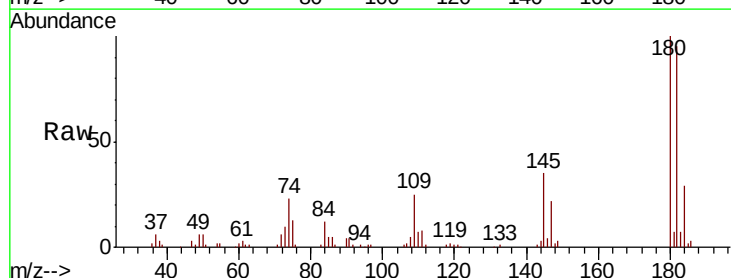


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 18.956 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.02 min
Lab File: VD062519.D
Acq: 23 May 2019 13:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.0	141.0
145	35.1	17.0	51.0



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

