

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
 Data File : VD062468.D
 Acq On : 20 May 2019 20:52
 Operator : FY/SY
 Sample : VD0520SBSD01
 Misc : 5.00µ/5mL/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

Quant Time: May 21 03:41:34 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	7.06	168	764731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	994167	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	823429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	472475	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	406740	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
35) Dibromofluoromethane	6.93	113	468215	52.21	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	104.42%	
50) Toluene-d8	10.42	98	1097320	55.91	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	111.82%	
62) 4-Bromofluorobenzene	13.57	95	465912	54.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.54%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	174034	21.389	ug/l	99
3) Chloromethane	1.75	50	105277	19.872	ug/l	96
4) Vinyl Chloride	1.85	62	113159	20.299	ug/l	100
5) Bromomethane	2.15	94	42655	17.732	ug/l	96
6) Chloroethane	2.26	64	47991	17.796	ug/l	92
7) Trichlorofluoromethane	2.52	101	231432	17.967	ug/l	95
8) Diethyl Ether	2.88	74	31443	18.096	ug/l	54
9) 1,1,2-Trichlorotrifluoroet	3.14	101	150962	19.700	ug/l	97
10) Methyl Iodide	3.30	142	210572	19.707	ug/l #	86
11) Tert butyl alcohol	4.10	59	37096	98.177	ug/l #	91
12) 1,1-Dichloroethene	3.13	96	108317	19.126	ug/l	83
13) Acrolein	3.05	56	31561	100.582	ug/l	87
14) Allyl chloride	3.63	41	165158	19.778	ug/l #	82
15) Acrylonitrile	4.21	53	98998	114.340	ug/l	89
16) Acetone	3.23	43	136921	93.340	ug/l	90
17) Carbon Disulfide	3.38	76	341733	19.924	ug/l	98
18) Methyl Acetate	3.65	43	52593	20.777	ug/l	91
19) Methyl tert-butyl Ether	4.25	73	267607	20.458	ug/l	92
20) Methylene Chloride	3.82	84	124267	15.545	ug/l	91
21) trans-1,2-Dichloroethene	4.22	96	135234	20.397	ug/l	97
22) Diisopropyl ether	5.13	45	369580	20.793	ug/l	93
23) Vinyl Acetate	5.06	43	1068381	99.475	ug/l	96
24) 1,1-Dichloroethane	4.99	63	222423	19.430	ug/l	99
25) 2-Butanone	6.09	43	154990	101.020	ug/l	98
26) 2,2-Dichloropropane	6.04	77	227691	18.452	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	144377	20.195	ug/l	94
28) Bromochloromethane	6.45	49	85364	20.777	ug/l	98
29) Tetrahydrofuran	6.48	42	75859	103.528	ug/l	98
30) Chloroform	6.68	83	288103	19.741	ug/l	98
31) Cyclohexane	6.97	56	154968	20.050	ug/l	99
32) 1,1,1-Trichloroethane	6.88	97	271871	18.452	ug/l	98
36) 1,1-Dichloropropene	7.15	75	193133	20.319	ug/l	92
37) Ethyl Acetate	6.19	43	76961	20.843	ug/l #	93
38) Carbon Tetrachloride	7.12	117	283938	20.100	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	163550	20.862	ug/l	95
40) Benzene	7.46	78	393286	21.094	ug/l	96
41) Methacrylonitrile	6.47	41	97104	20.939	ug/l #	83
42) 1,2-Dichloroethane	7.59	62	204026	20.666	ug/l	94
43) Isopropyl Acetate	9.25	43	109067	22.265	ug/l	89
44) Trichloroethene	8.55	130	151430	20.286	ug/l	85
45) 1,2-Dichloropropane	8.95	63	98176	21.608	ug/l	97
46) Dibromomethane	9.08	93	87689	21.291	ug/l #	87
47) Bromodichloromethane	9.38	83	210557	20.097	ug/l	97
48) Methyl methacrylate	9.13	41	70620	21.423	ug/l #	84
49) 1,4-Dioxane	9.09	88	14914	504.397	ug/l	93
51) 4-Methyl-2-Pentanone	10.31	43	339458	104.899	ug/l	91
52) Toluene	10.51	92	258813	20.278	ug/l	95
53) t-1,3-Dichloropropene	10.92	75	176124	20.191	ug/l	97
54) cis-1,3-Dichloropropene	10.05	75	201112	22.096	ug/l	94
55) 1,1,2-Trichloroethane	11.20	97	94965	21.953	ug/l	98
56) Ethyl methacrylate	11.06	69	99549	21.527	ug/l #	86
57) 1,3-Dichloropropane	11.42	76	145227	21.891	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.87	63	266846	112.377	ug/l	97
59) 2-Hexanone	11.54	43	259082	110.159	ug/l	87
60) Dibromochloromethane	11.70	129	162452	19.553	ug/l	95
61) 1,2-Dibromoethane	11.81	107	109254	20.494	ug/l	95
64) Tetrachloroethene	11.26	164	141511	20.525	ug/l	98
65) Chlorobenzene	12.40	112	323297	20.417	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.52	131	161628	22.112	ug/l	93
67) Ethyl Benzene	12.53	91	635656	23.306	ug/l	99
68) m/p-Xylenes	12.68	106	421868	43.089	ug/l	96
69) o-Xylene	13.05	106	189403	20.503	ug/l	87
70) Styrene	13.08	104	334289	21.272	ug/l	98
71) Bromoform	13.24	173	103168	21.253	ug/l	98
73) Isopropylbenzene	13.41	105	576303	19.351	ug/l	96
74) N-amyl acetate	13.27	43	145093	19.725	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.70	83	105135	19.568	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	110595	19.873	ug/l	99
77) Bromobenzene	13.67	156	179811	21.283	ug/l	90
78) n-propylbenzene	13.78	91	665871	19.302	ug/l	96
79) 2-Chlorotoluene	13.85	91	424942	20.298	ug/l	98
80) 1,3,5-Trimethylbenzene	13.94	105	527752	20.466	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.48	75	29344	18.696	ug/l #	61
82) 4-Chlorotoluene	13.95	91	504977	20.945	ug/l	83
83) tert-Butylbenzene	14.20	119	550543	19.247	ug/l	93
84) 1,2,4-Trimethylbenzene	14.24	105	538700	20.388	ug/l	92
85) sec-Butylbenzene	14.37	105	590757	19.807	ug/l	100
86) p-Isopropyltoluene	14.50	119	537992	19.905	ug/l	94
87) 1,3-Dichlorobenzene	14.46	146	297640	19.950	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	300174	20.850	ug/l	100
89) n-Butylbenzene	14.81	91	457609	17.543	ug/l	94
90) Hexachloroethane	15.01	117	142084	19.021	ug/l	97
91) 1,2-Dichlorobenzene	14.82	146	224411	17.689	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.39	75	17042	16.710	ug/l	83

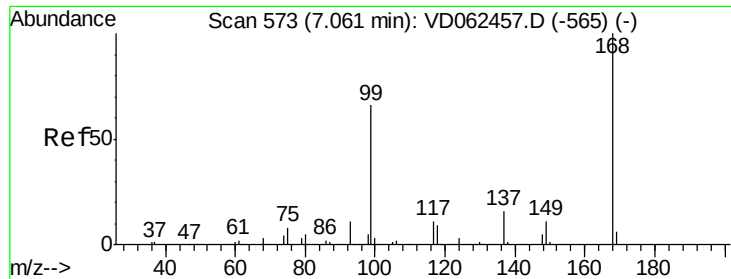
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052019\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	197015	19.723	ug/l	97
94) Hexachlorobutadiene	16.05	225	142900	19.374	ug/l	97
95) Naphthalene	16.13	128	281010	20.588	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	157799	19.270	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

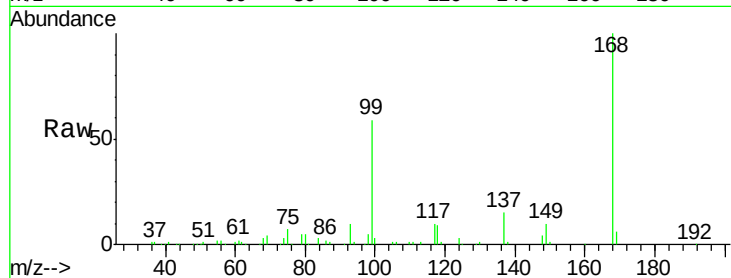
VD0520SBSD01

Tot Ion:168 Resp: 764731

Ion Ratio Lower Upper

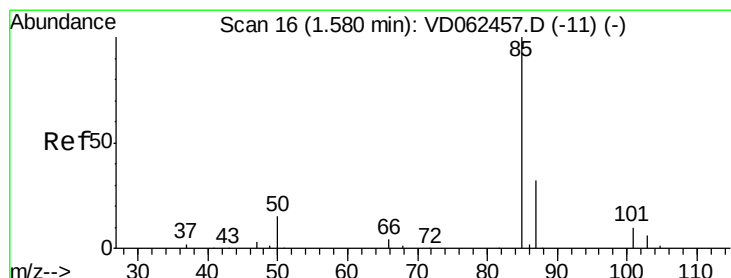
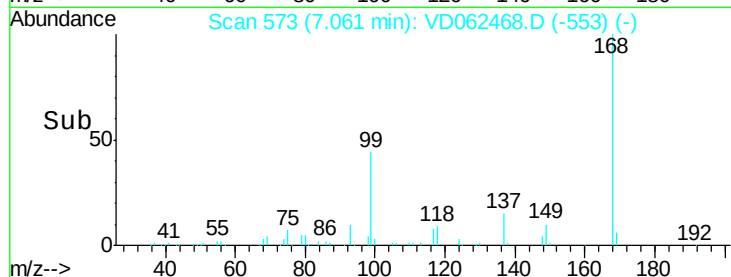
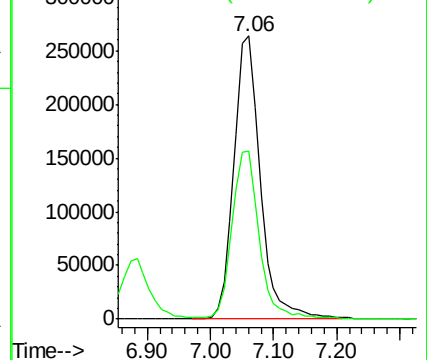
168 100

99 59.3 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 21.389 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.00 min

Lab File: VD062468.D

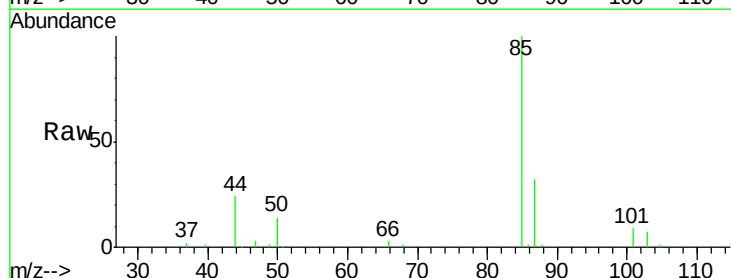
Acq: 20 May 2019 20:52

Tgt Ion: 85 Resp: 174034

Ion Ratio Lower Upper

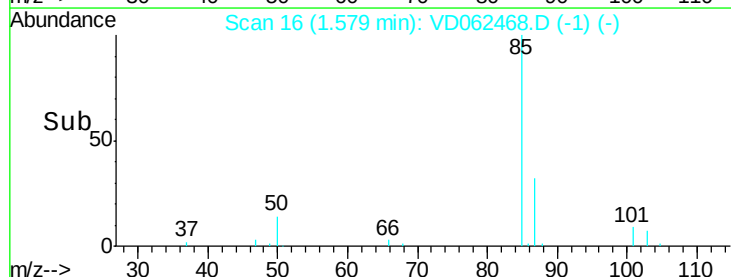
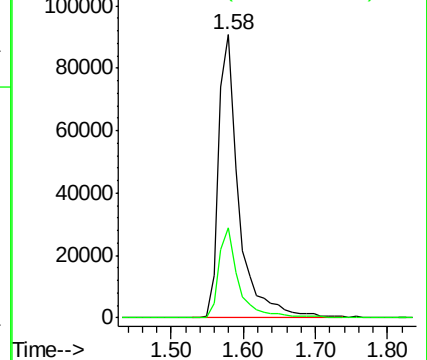
85 100

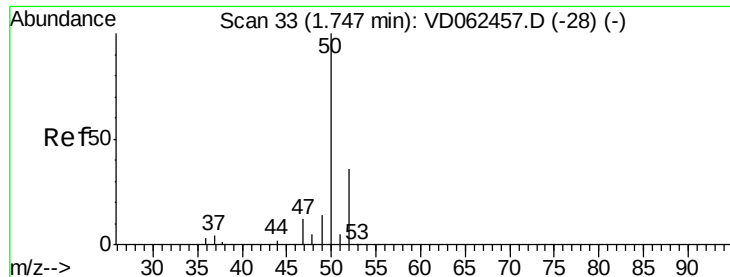
87 31.8 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.872 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

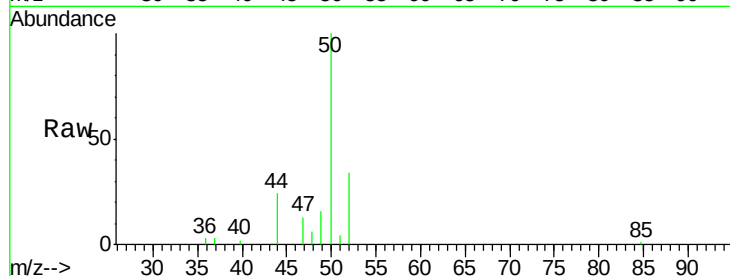
VD0520SBSD01

Tot Ion: 50 Resp: 105277

Ion Ratio Lower Upper

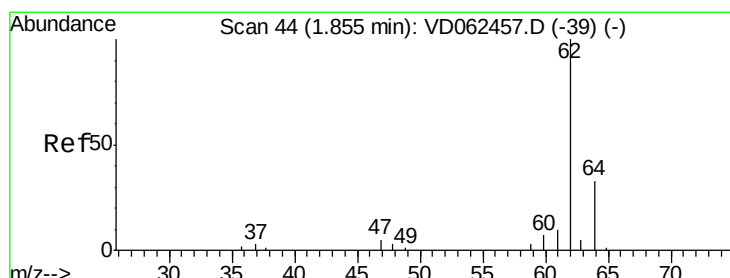
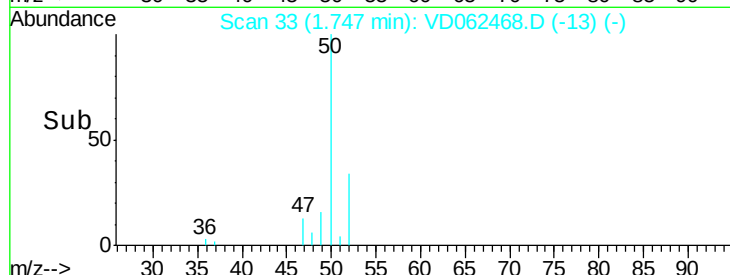
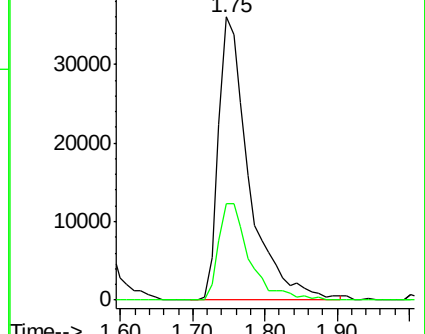
50 100

52 34.0 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: 20.299 ug/l

RT: 1.85 min Scan# 44

Delta R.T. -0.00 min

Lab File: VD062468.D

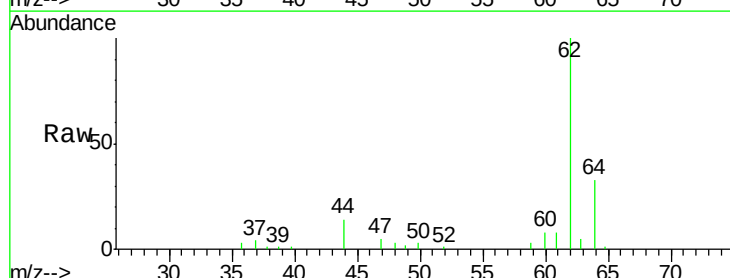
Acq: 20 May 2019 20:52

Tgt Ion: 62 Resp: 113159

Ion Ratio Lower Upper

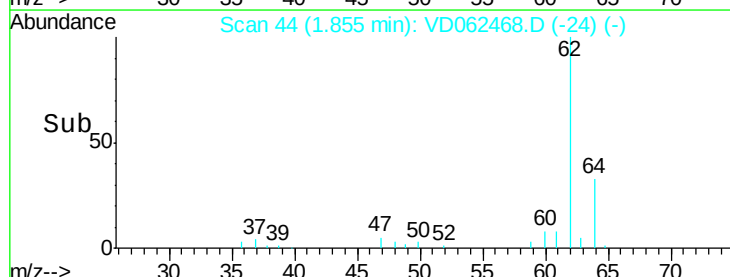
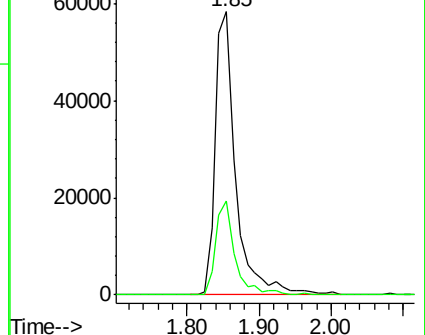
62 100

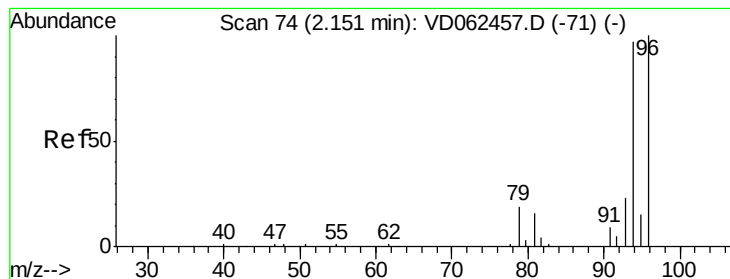
64 33.2 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 17.732 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

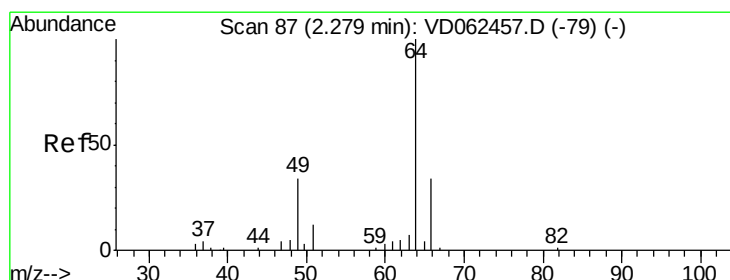
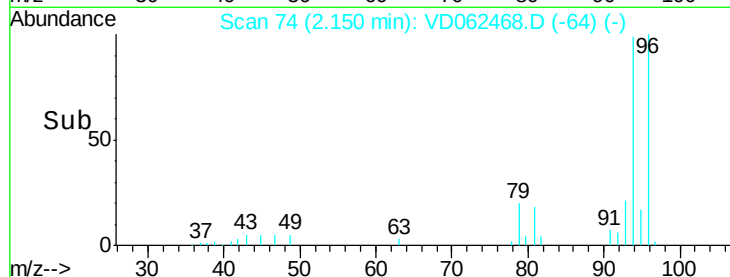
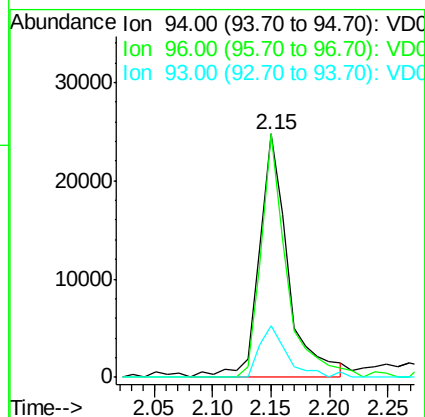
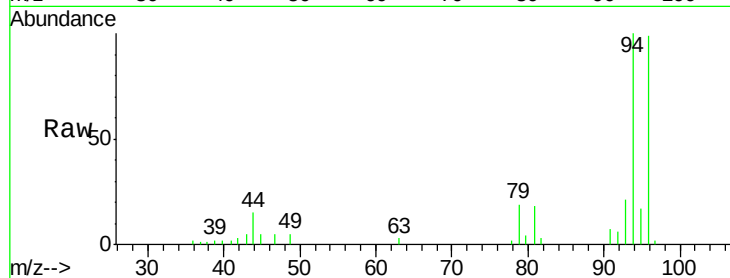
Tot Ion: 94 Resp: 42655

Ion Ratio Lower Upper

94 100

96 100.2 76.6 115.0

93 21.1 18.5 27.7



#6

Chloroethane

Concen: 17.796 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.02 min

Lab File: VD062468.D

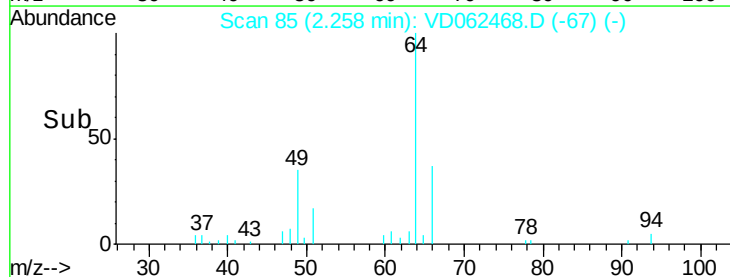
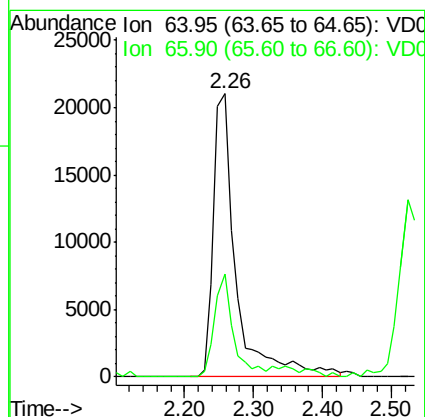
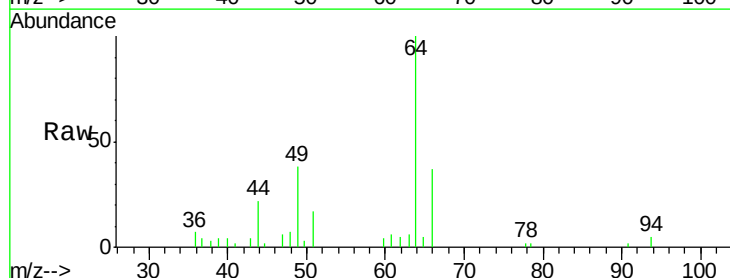
Acq: 20 May 2019 20:52

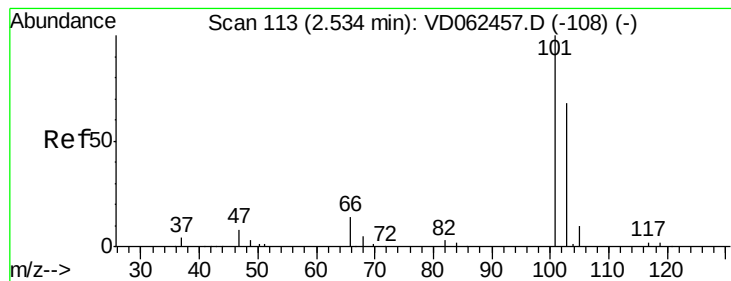
Tgt Ion: 64 Resp: 47991

Ion Ratio Lower Upper

64 100

66 36.5 25.6 38.4



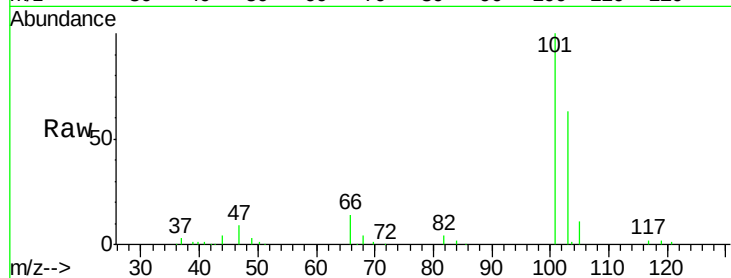


#7

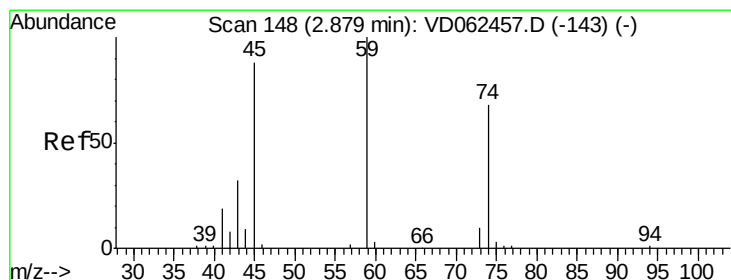
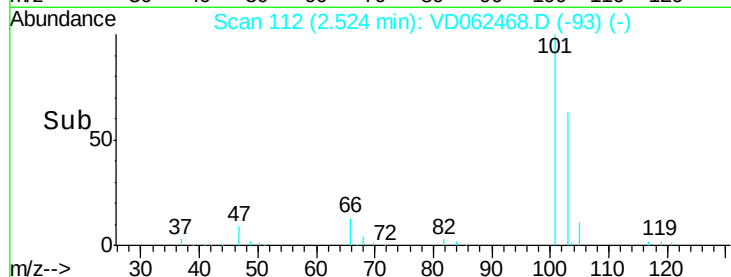
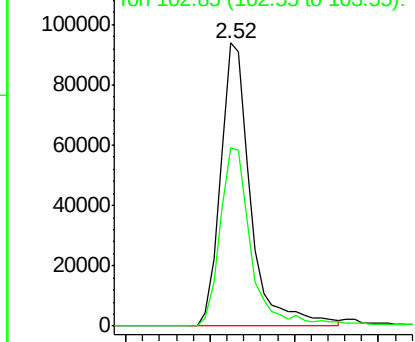
Trichlorofluoromethane
 Concen: 17.967 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. -0.01 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

Tot Ion:101 Resp: 231432
 Ion Ratio Lower Upper
 101 100
 103 63.0 53.6 80.4



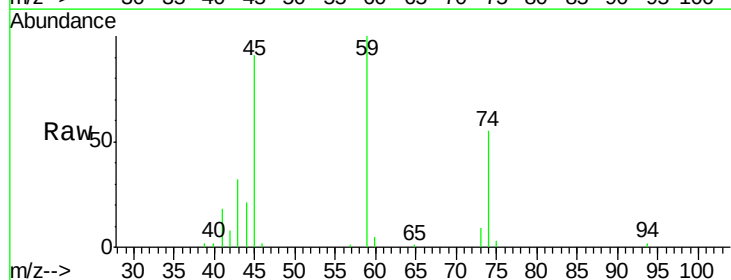
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



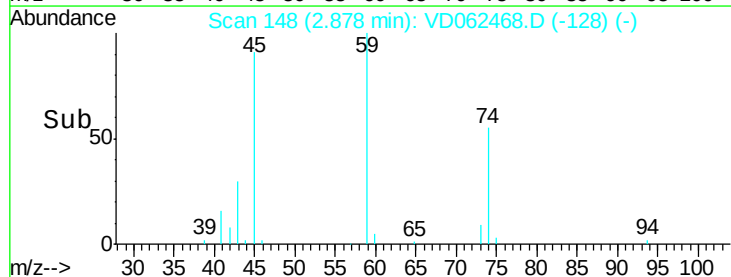
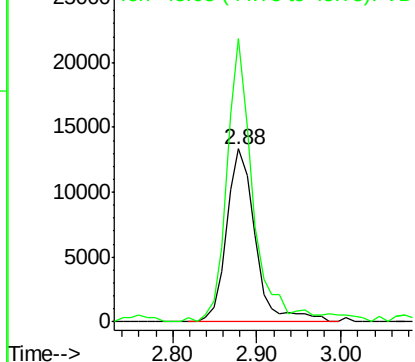
#8

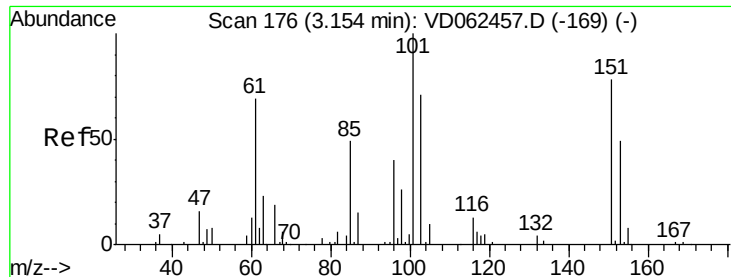
Diethyl Ether
 Concen: 18.096 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion: 74 Resp: 31443
 Ion Ratio Lower Upper
 74 100
 45 163.6 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: 19.700 ug/l

RT: 3.14 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

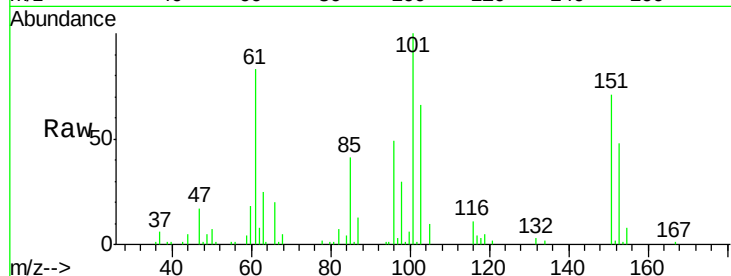
Tot Ion:101 Resp: 150962

Ion Ratio Lower Upper

101 100

85 41.4 32.4 48.6

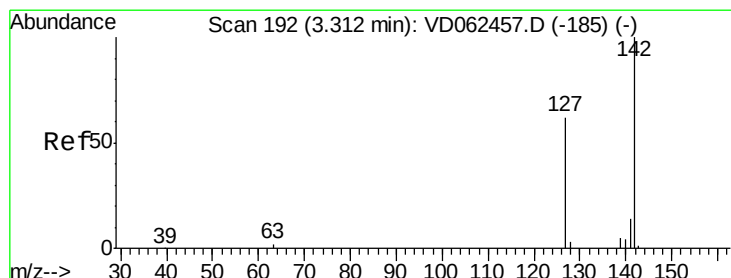
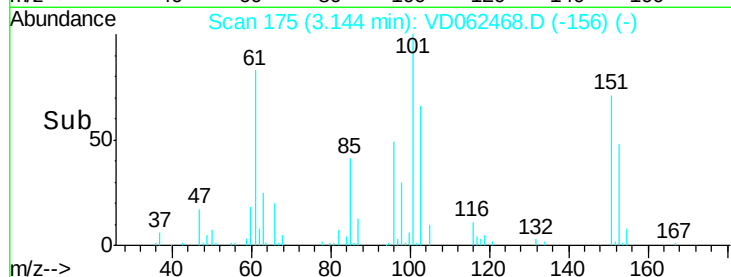
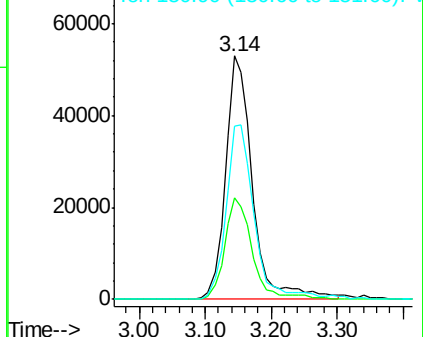
151 71.2 59.4 89.0



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: 19.707 ug/l

RT: 3.30 min Scan# 191

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

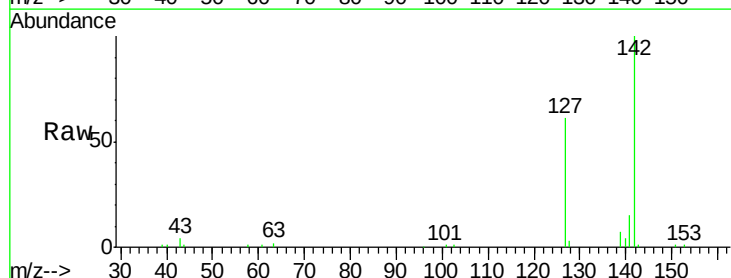
Tgt Ion:142 Resp: 210572

Ion Ratio Lower Upper

142 100

127 60.6 38.8 58.2#

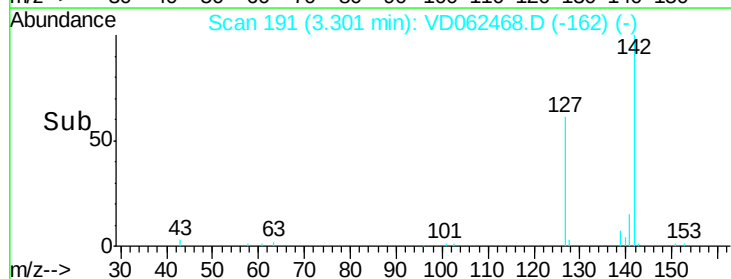
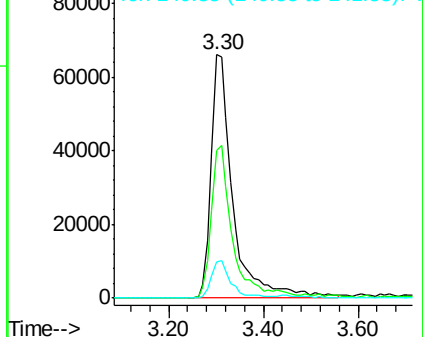
141 14.9 11.4 17.0

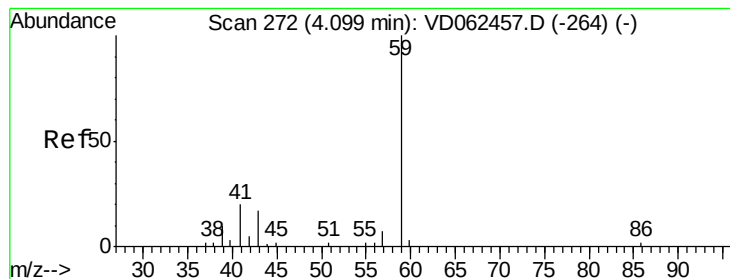


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 98.177 ug/l

RT: 4.10 min Scan# 272

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

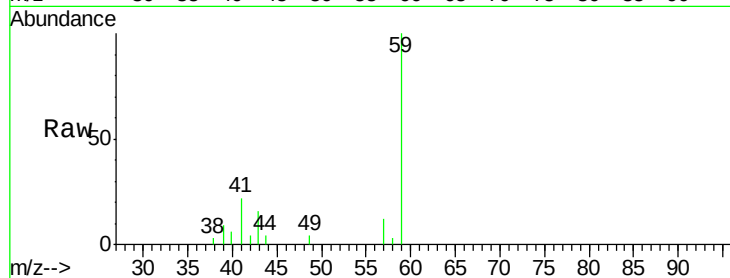
VD0520SBSD01

Tot Ion: 59 Resp: 37096

Ion Ratio Lower Upper

59 100

57 11.7 6.9 10.3#

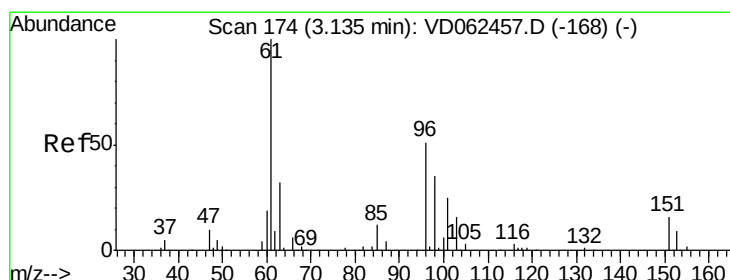
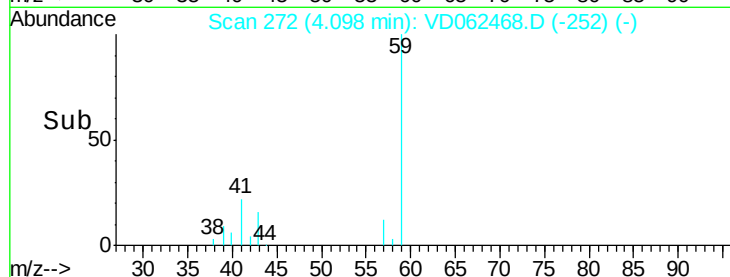


Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.10

Time-->



#12

1,1-Dichloroethene

Concen: 19.126 ug/l

RT: 3.13 min Scan# 174

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

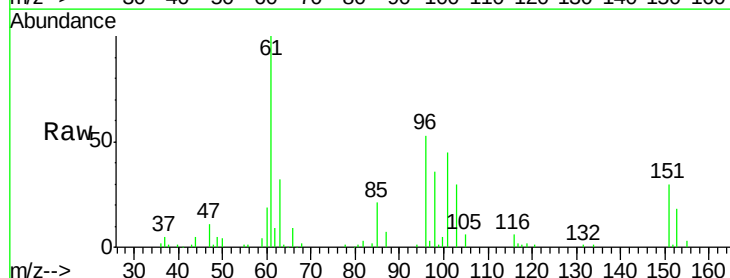
Tgt Ion: 96 Resp: 108317

Ion Ratio Lower Upper

96 100

61 190.1 129.8 194.8

98 68.5 51.2 76.8



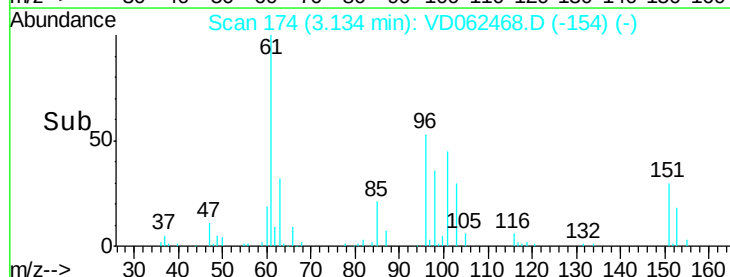
Abundance Ion 95.90 (95.60 to 96.60): VDC

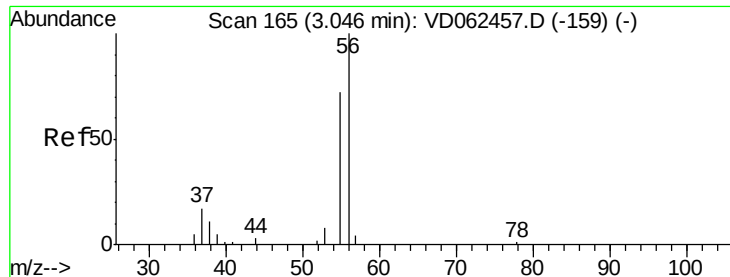
Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

3.13

Time-->





#13

Acrolein

Concen: 100.582 ug/l

RT: 3.05 min Scan# 165

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

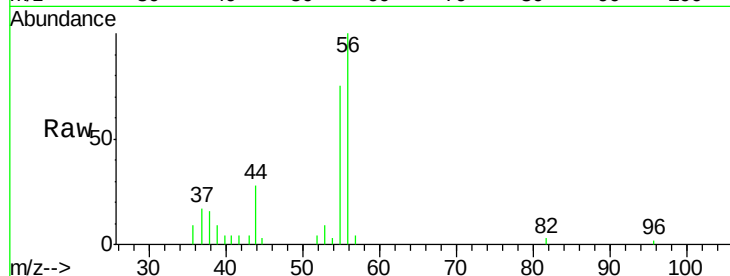
VD0520SBSD01

Tot Ion: 56 Resp: 31561

Ion Ratio Lower Upper

56 100

55 74.7 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.05

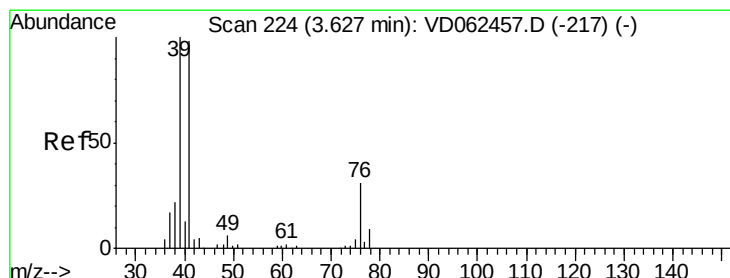
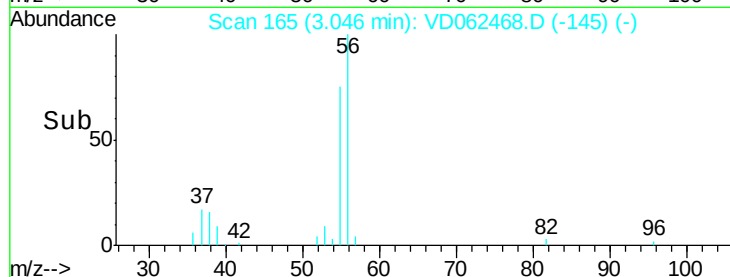
15000

10000

5000

0

Time--> 2.90 3.00 3.10 3.20



#14

Allyl chloride

Concen: 19.778 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

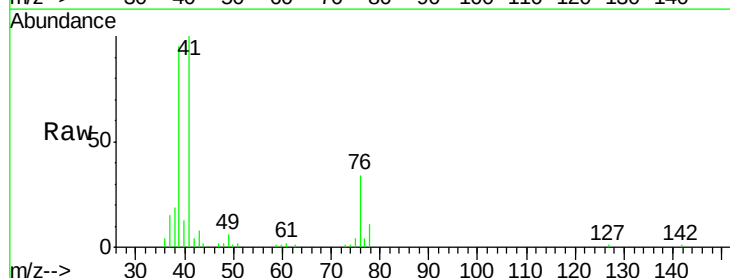
Tgt Ion: 41 Resp: 165158

Ion Ratio Lower Upper

41 100

39 95.1 60.5 90.7#

76 34.5 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

3.63

80000

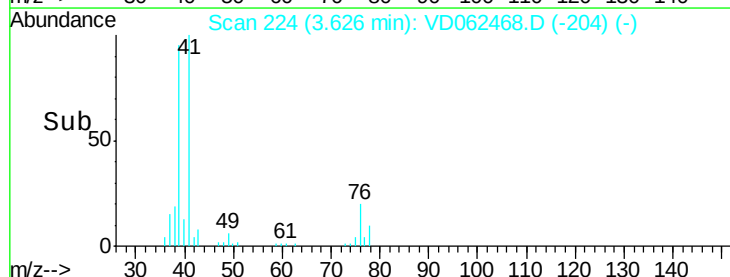
60000

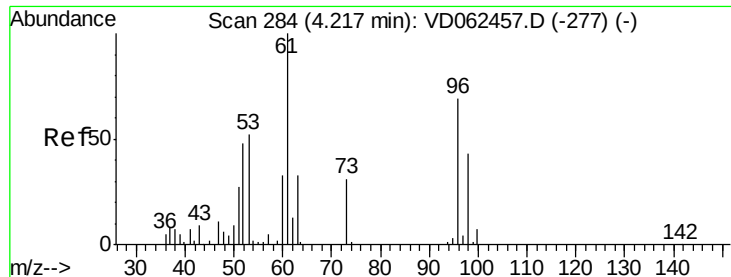
40000

20000

0

Time--> 3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 114.340 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

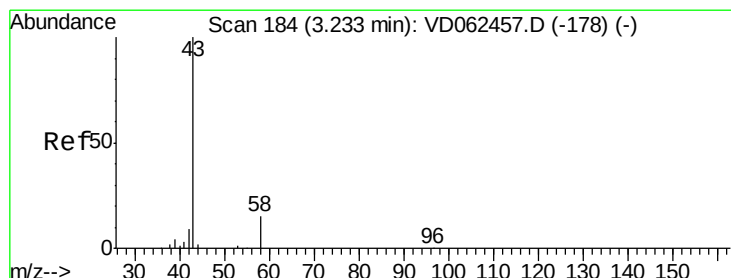
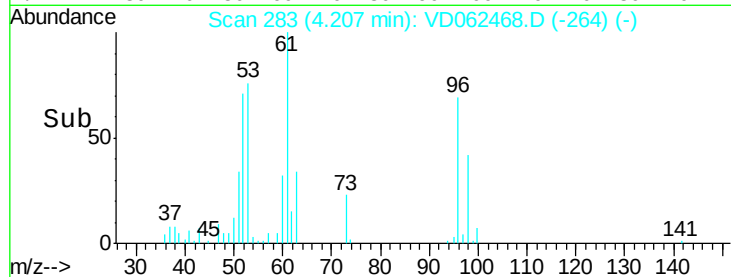
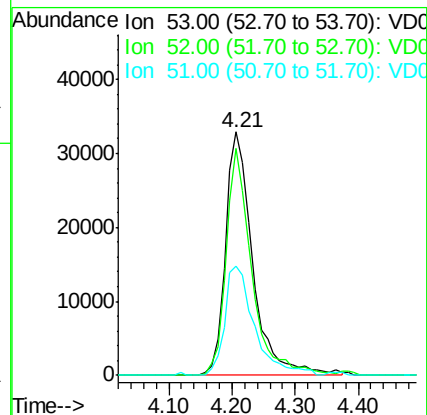
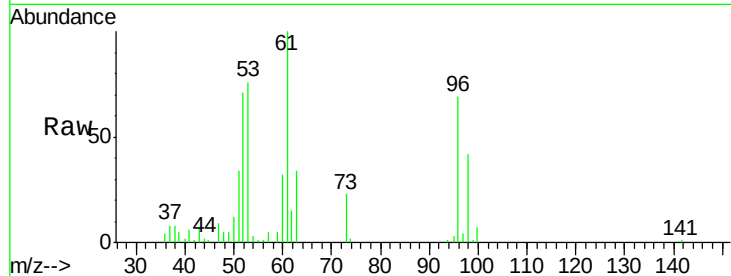
Tot Ion: 53 Resp: 98998

Ion Ratio Lower Upper

53 100

52 93.2 65.0 97.4

51 44.7 32.6 48.8



#16

Acetone

Concen: 93.340 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD062468.D

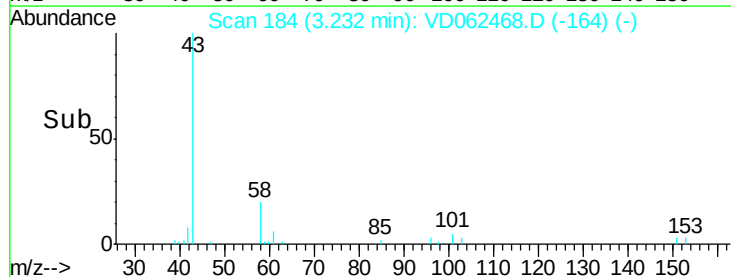
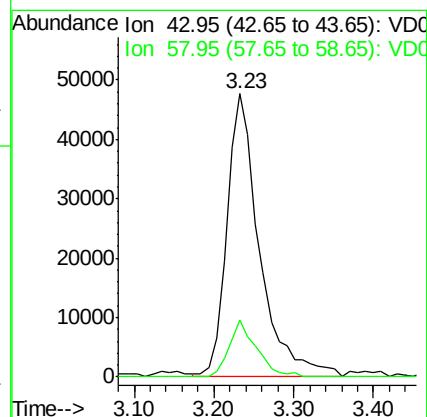
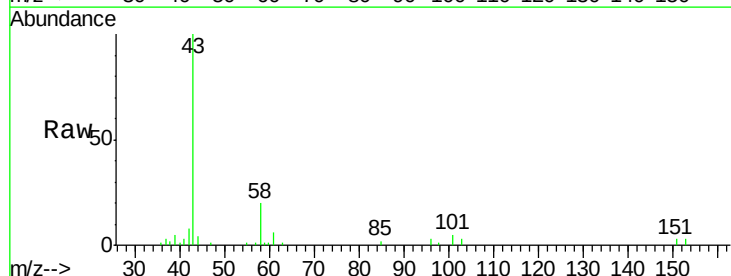
Acq: 20 May 2019 20:52

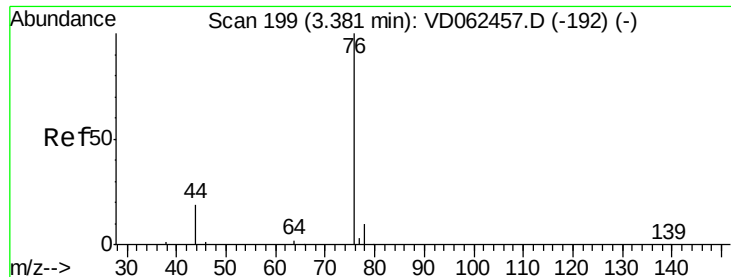
Tgt Ion: 43 Resp: 136921

Ion Ratio Lower Upper

43 100

58 20.1 19.9 29.9





#17

Carbon Disulfide

Concen: 19.924 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

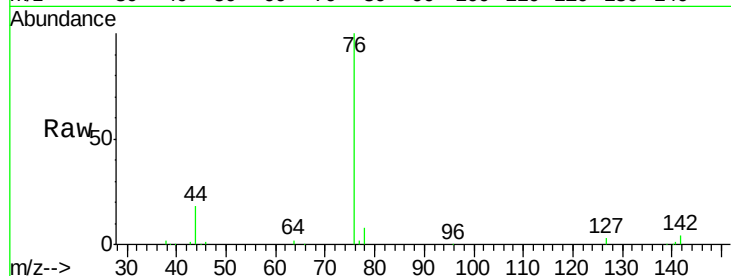
VD0520SBSD01

Tot Ion: 76 Resp: 341733

Ion Ratio Lower Upper

76 100

78 8.3 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.38

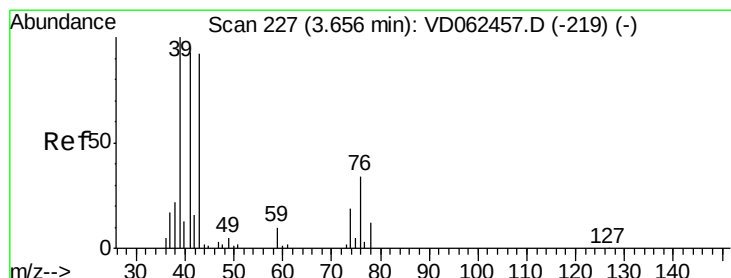
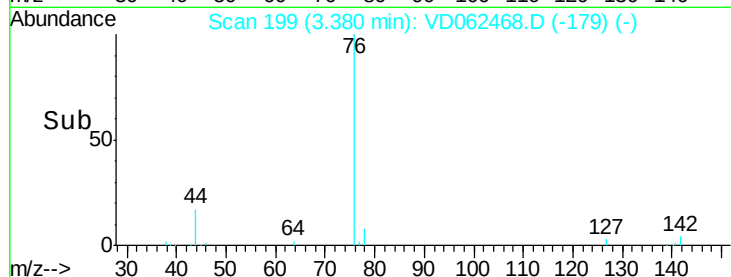
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.777 ug/l

RT: 3.65 min Scan# 226

Delta R.T. -0.01 min

Lab File: VD062468.D

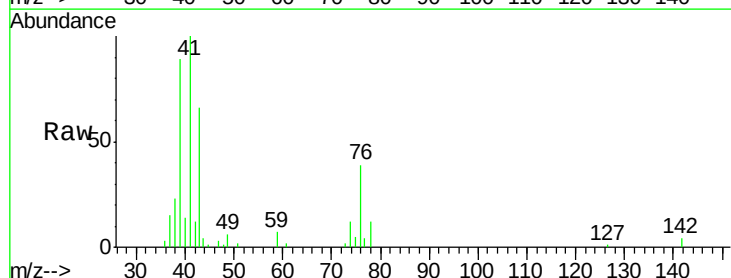
Acq: 20 May 2019 20:52

Tgt Ion: 43 Resp: 52593

Ion Ratio Lower Upper

43 100

74 18.4 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

20000

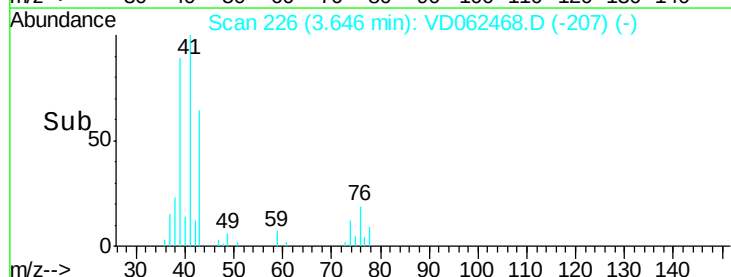
15000

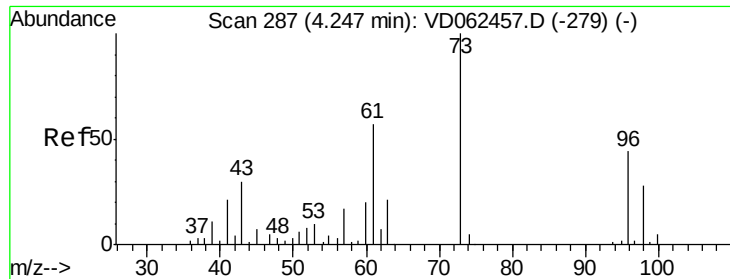
10000

5000

0

Time-->

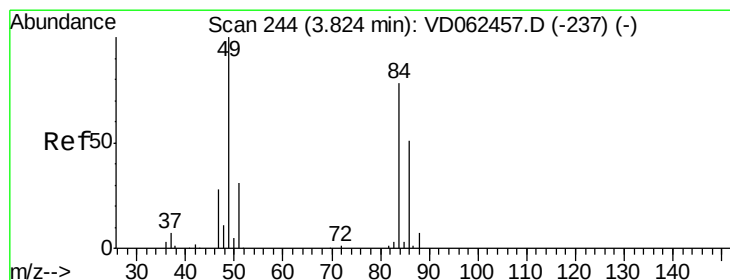
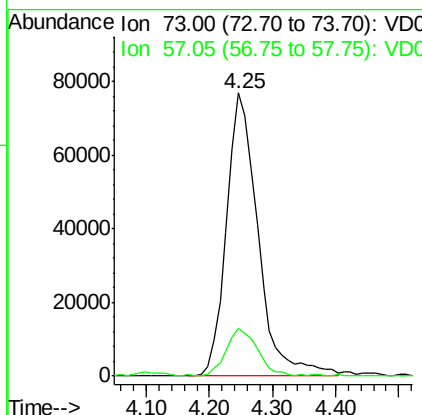
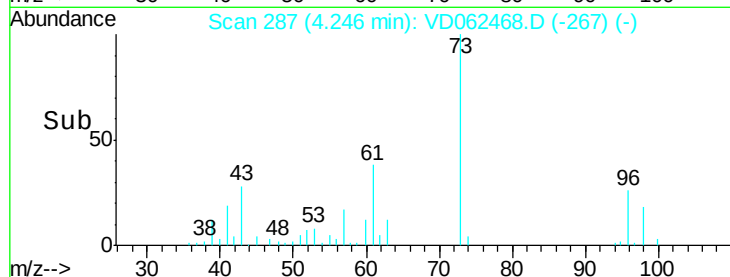
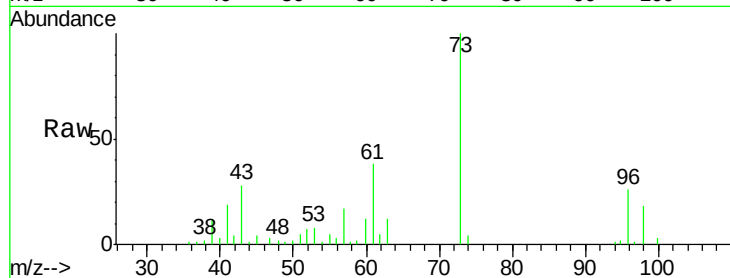




#19
Methyl tert-butyl Ether
Concen: 20.458 ug/l
RT: 4.25 min Scan# 287
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

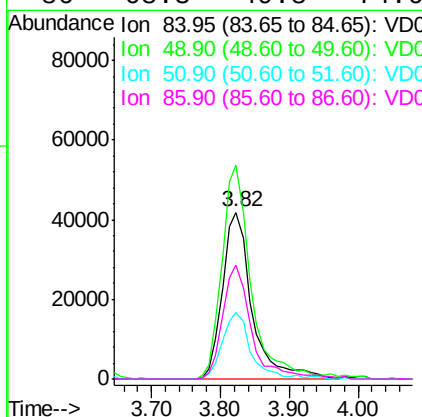
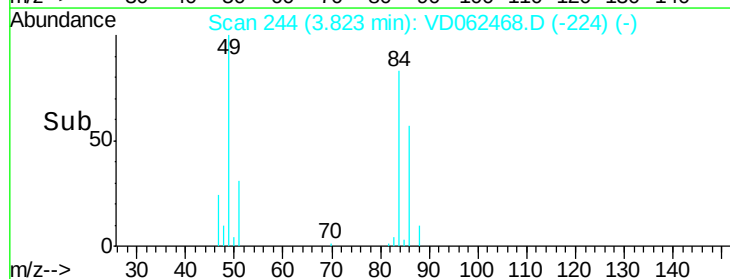
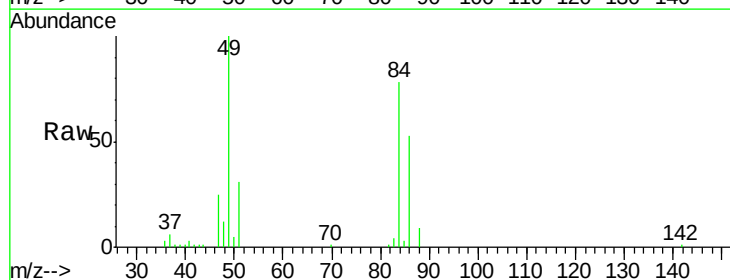
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

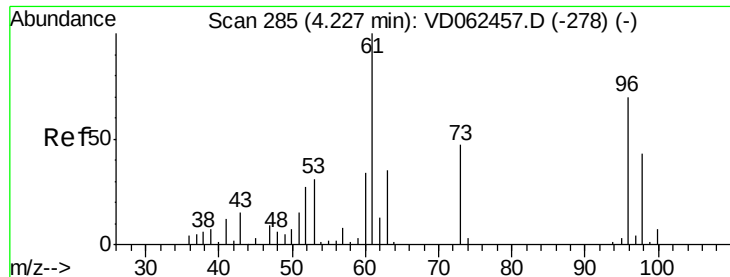
Tot Ion: 73 Resp: 267607
Ion Ratio Lower Upper
73 100
57 16.8 16.3 24.5



#20
Methylene Chloride
Concen: 15.545 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 84 Resp: 124267
Ion Ratio Lower Upper
84 100
49 128.3 94.0 141.0
51 40.2 29.0 43.4
86 68.3 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 20.397 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

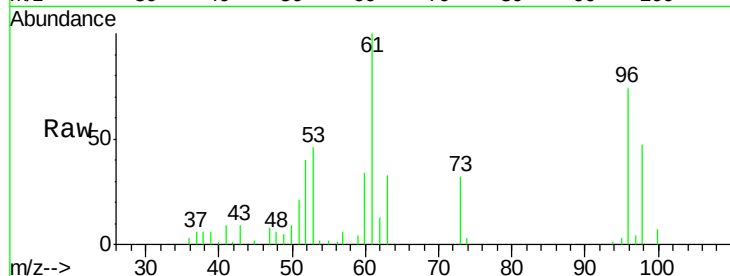
Tot Ion: 96 Resp: 135234

Ion Ratio Lower Upper

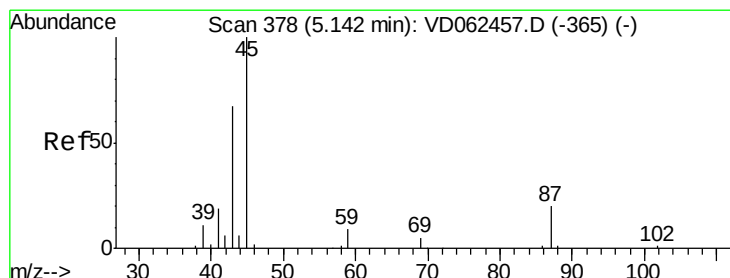
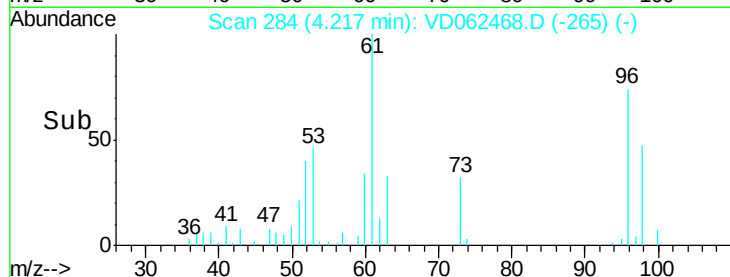
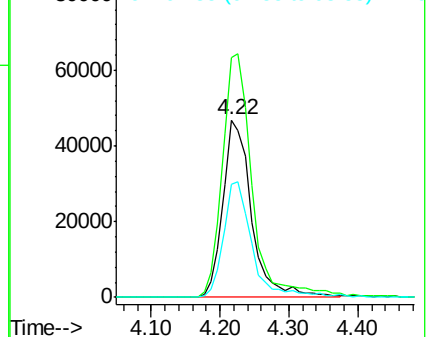
96 100

61 135.1 104.4 156.6

98 63.6 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: 20.793 ug/l

RT: 5.13 min Scan# 377

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Tgt Ion: 45 Resp: 369580

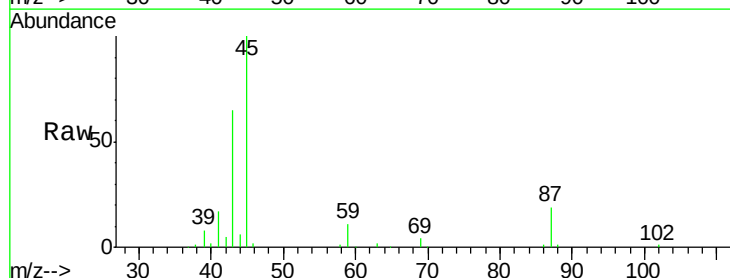
Ion Ratio Lower Upper

45 100

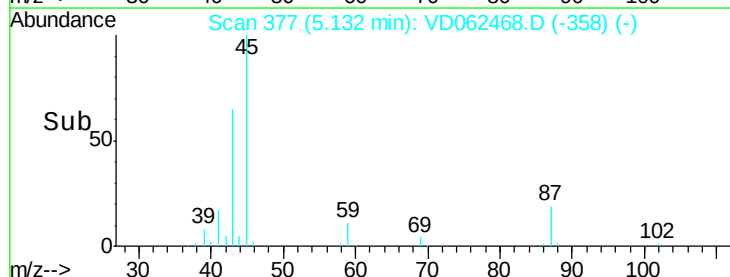
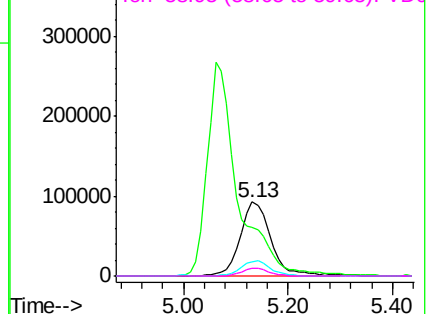
43 64.9 46.2 69.2

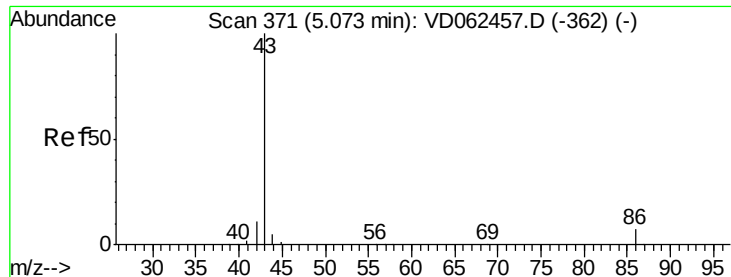
87 19.1 15.9 23.9

59 10.7 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: 99.475 ug/l

RT: 5.06 min Scan# 370

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

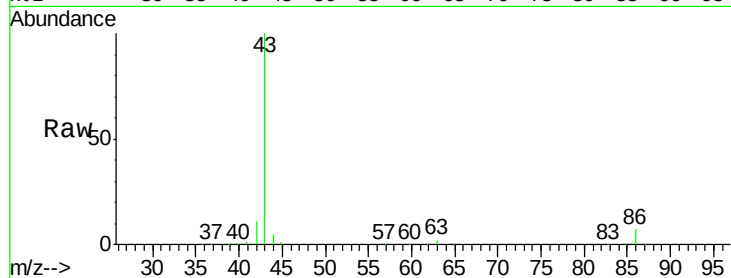
VD0520SBS01

Tot Ion: 43 Resp: 1068381

Ion Ratio Lower Upper

43 100

86 6.5 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.06

300000

250000

200000

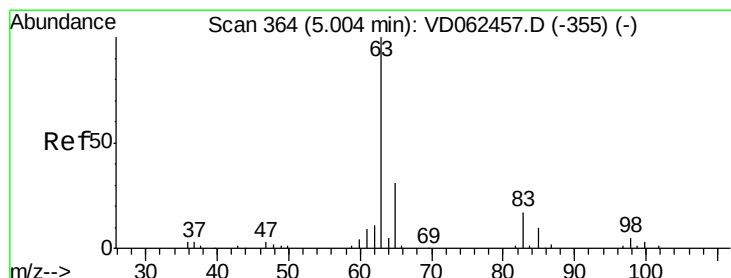
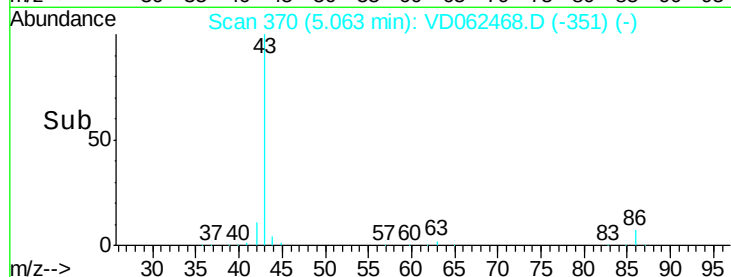
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 19.430 ug/l

RT: 4.99 min Scan# 363

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

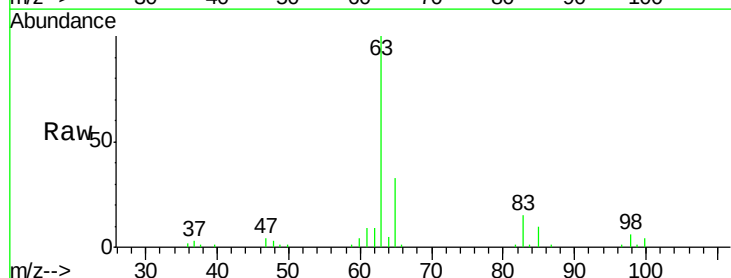
Tgt Ion: 63 Resp: 222423

Ion Ratio Lower Upper

63 100

98 6.1 2.8 8.4

100 3.7 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

4.99

80000

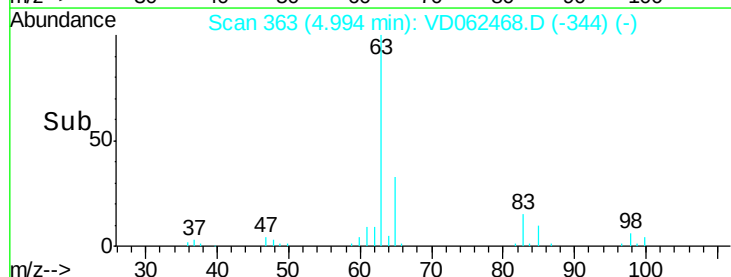
60000

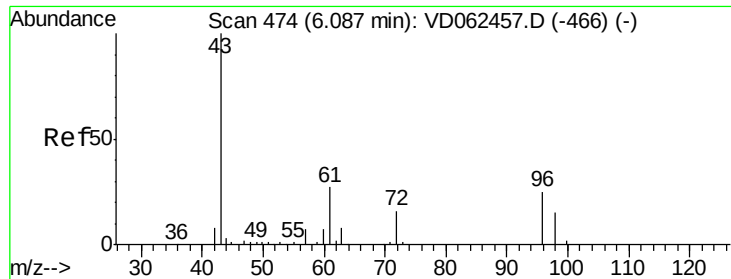
40000

20000

0

Time--> 4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 101.020 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

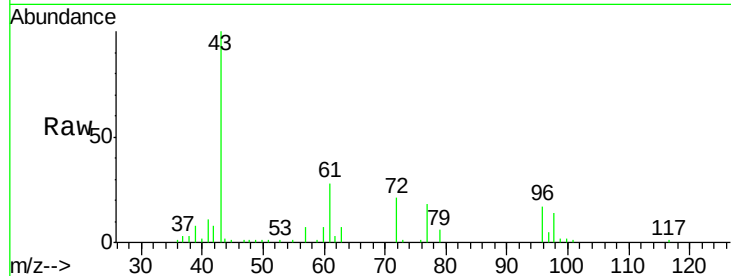
VD0520SBSD01

Tot Ion: 43 Resp: 154990

Ion Ratio Lower Upper

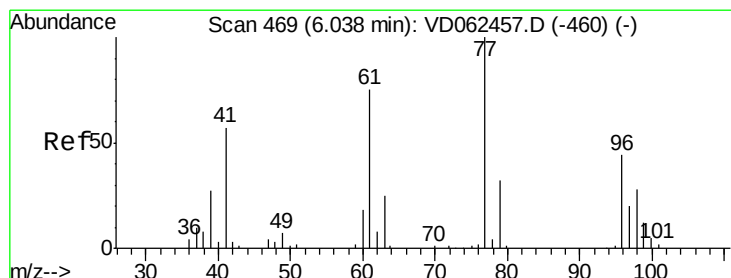
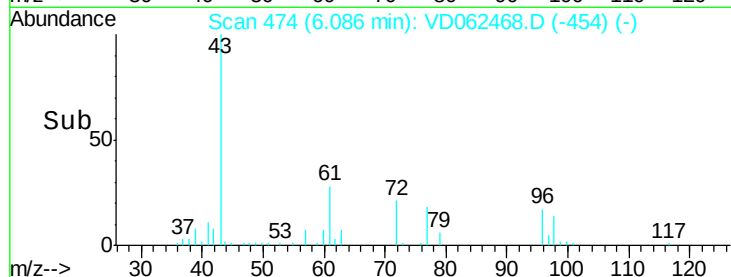
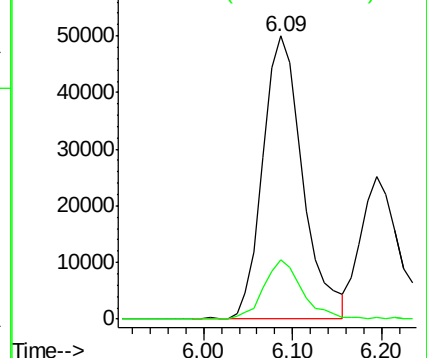
43 100

72 21.1 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: 18.452 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD062468.D

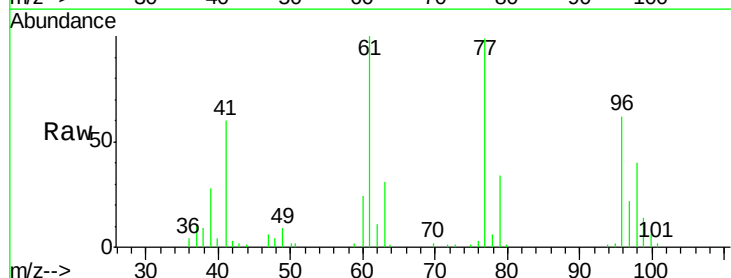
Acq: 20 May 2019 20:52

Tgt Ion: 77 Resp: 227691

Ion Ratio Lower Upper

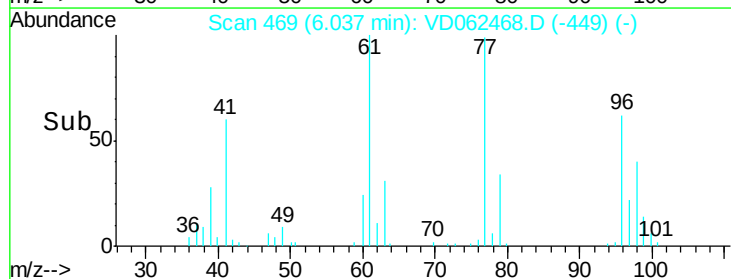
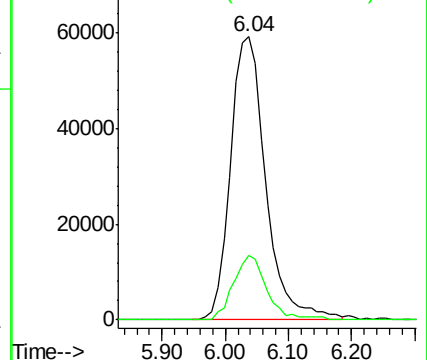
77 100

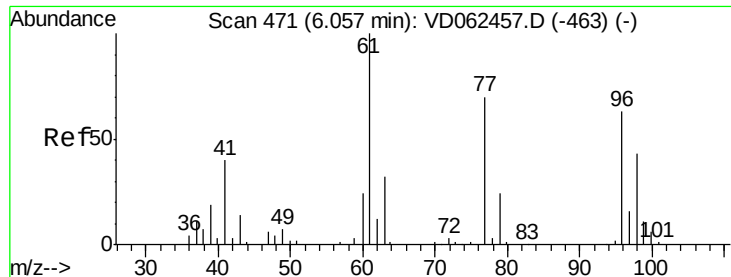
97 22.6 11.9 35.9



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: 20.195 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

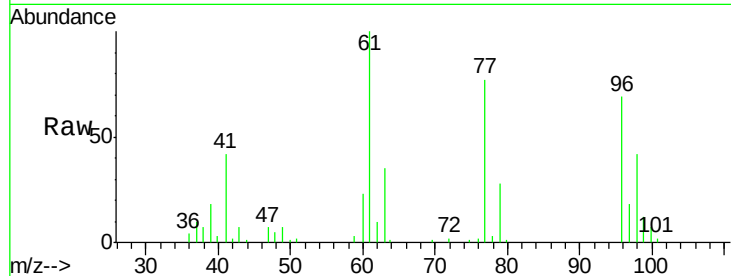
Tot Ion: 96 Resp: 144377

Ion Ratio Lower Upper

96 100

61 145.8 0.0 279.8

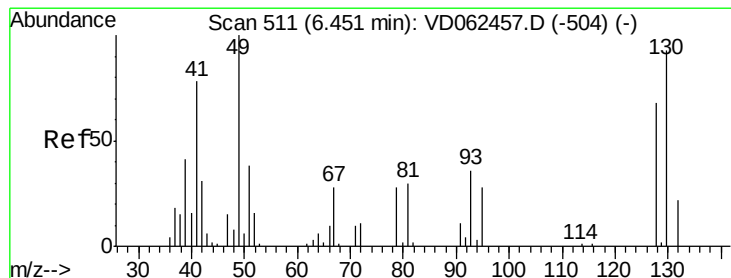
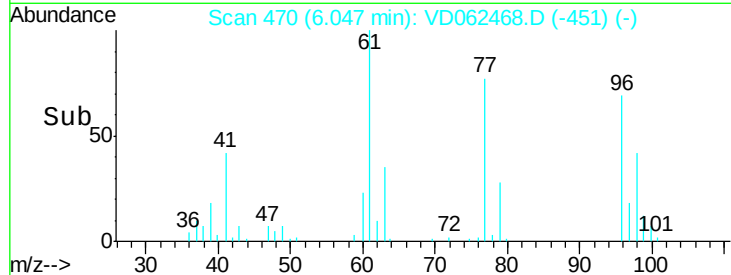
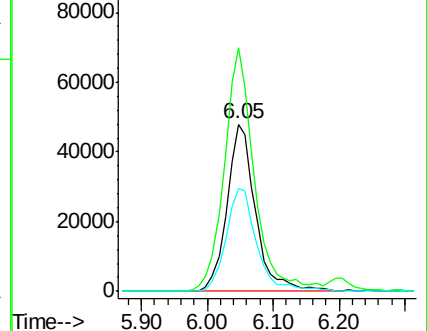
98 61.4 0.0 136.0



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: 20.777 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

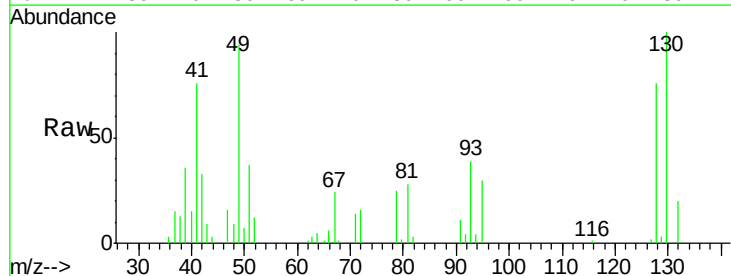
Tgt Ion: 49 Resp: 85364

Ion Ratio Lower Upper

49 100

129 3.2 0.0 6.6

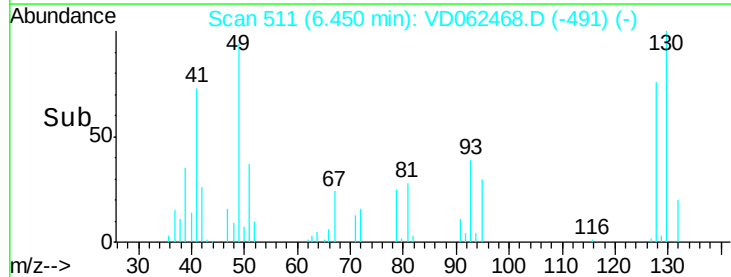
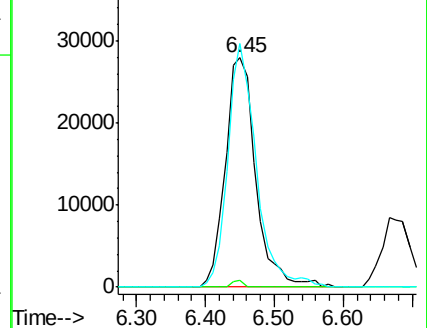
130 106.2 86.7 130.1

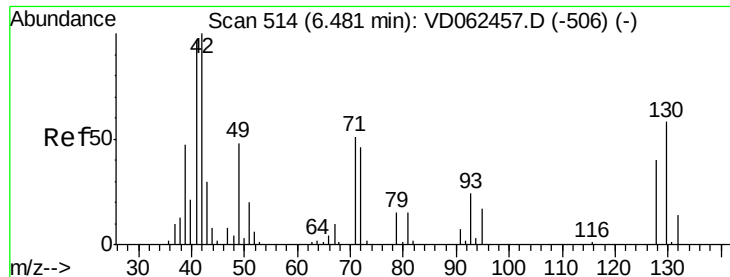


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 103.528 ug/l

RT: 6.48 min Scan# 514

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

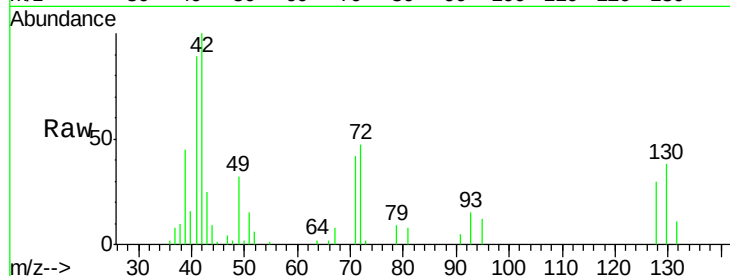
Tot Ion: 42 Resp: 75859

Ion Ratio Lower Upper

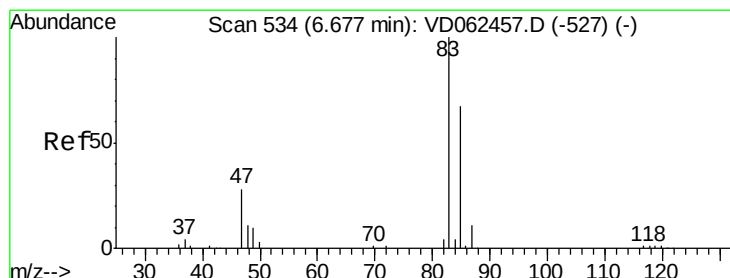
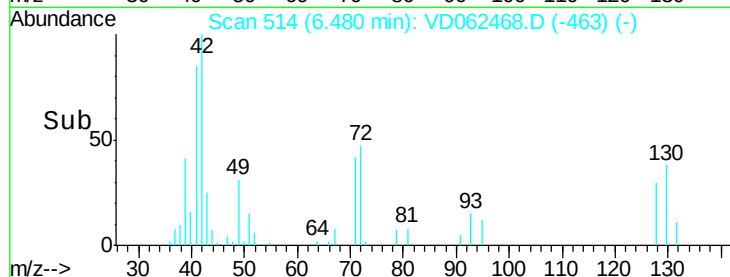
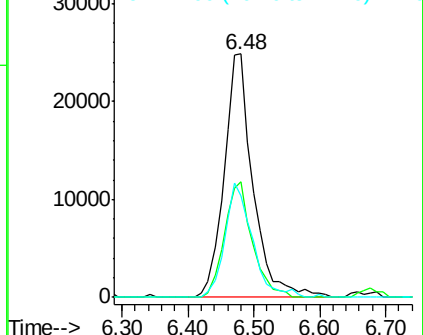
42 100

72 45.6 37.8 56.6

71 44.8 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: 19.741 ug/l

RT: 6.68 min Scan# 534

Delta R.T. -0.00 min

Lab File: VD062468.D

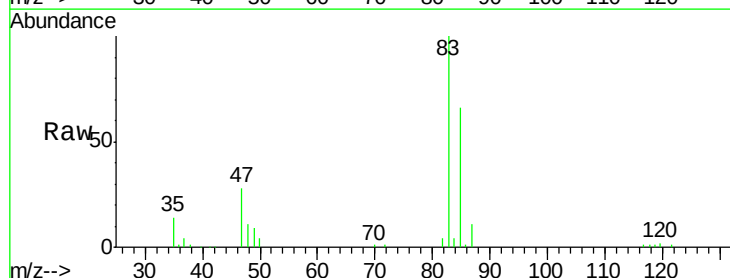
Acq: 20 May 2019 20:52

Tgt Ion: 83 Resp: 288103

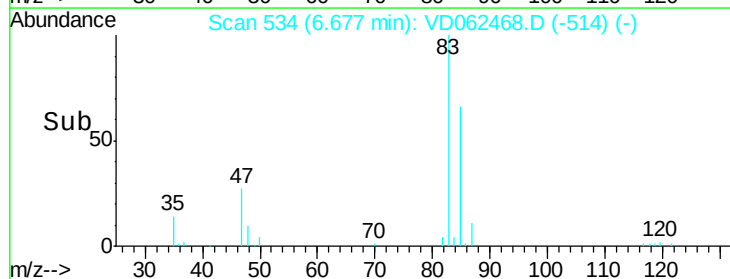
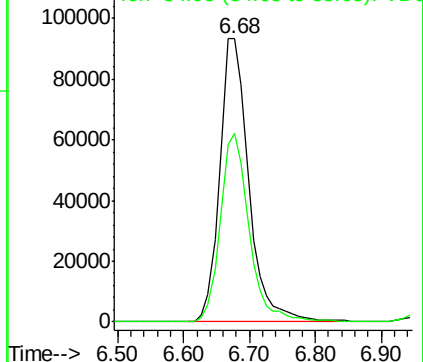
Ion Ratio Lower Upper

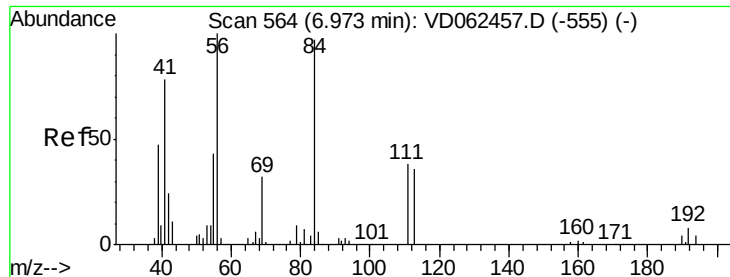
83 100

85 66.5 51.7 77.5



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

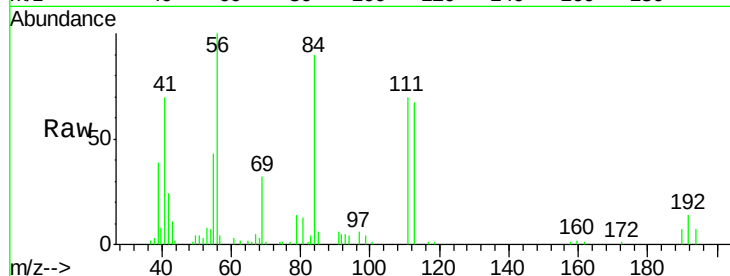




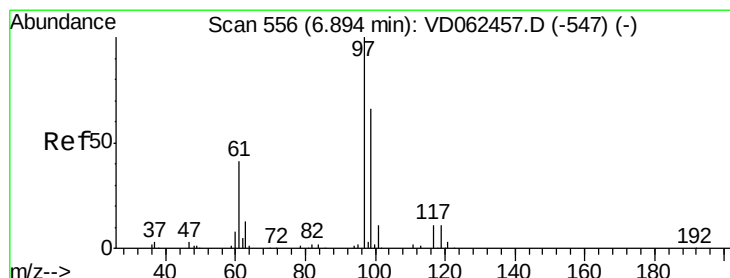
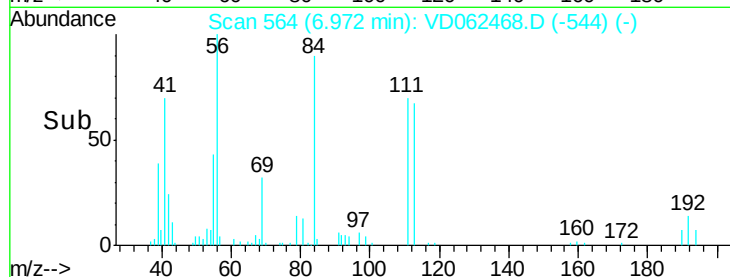
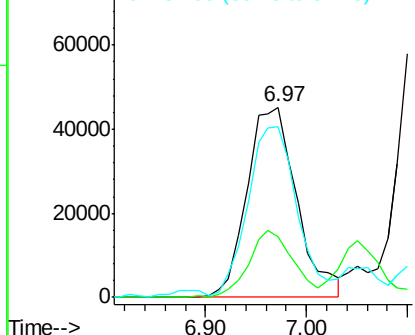
#31
Cyclohexane
Concen: 20.050 ug/l
RT: 6.97 min Scan# 564
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

Tot Ion: 56 Resp: 154968
Ion Ratio Lower Upper
56 100
69 31.6 25.8 38.6
84 90.0 72.2 108.4

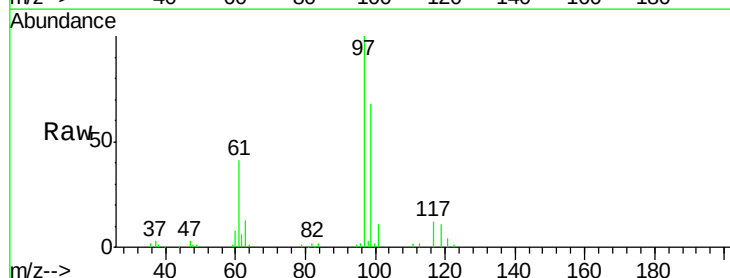


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

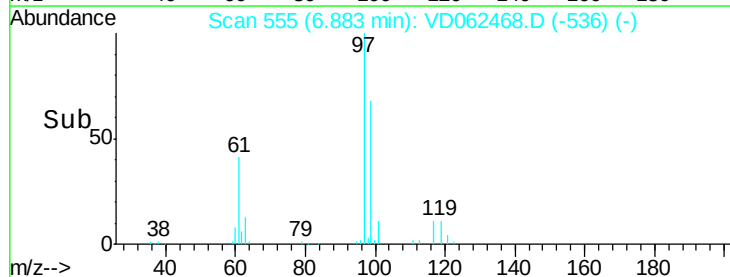
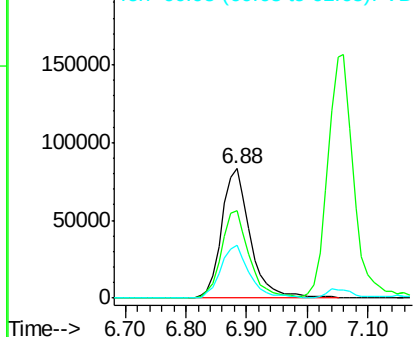


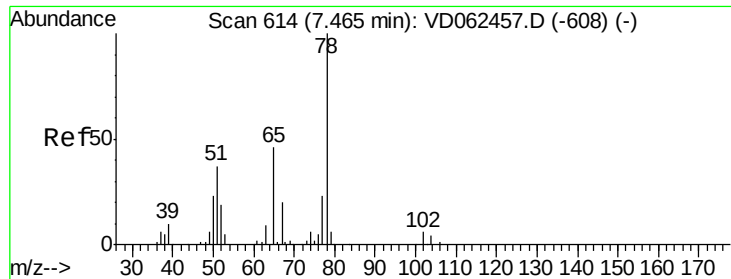
#32
1,1,1-Trichloroethane
Concen: 18.452 ug/l
RT: 6.88 min Scan# 555
Delta R.T. -0.01 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 97 Resp: 271871
Ion Ratio Lower Upper
97 100
99 67.5 52.2 78.2
61 40.6 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

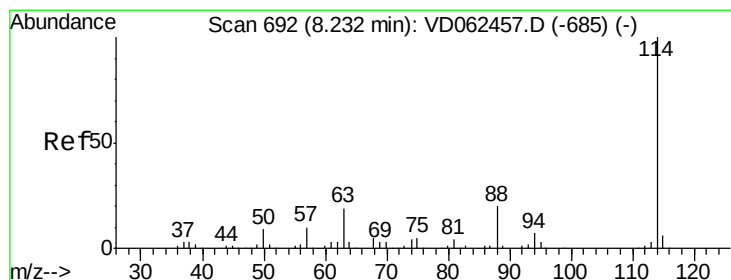
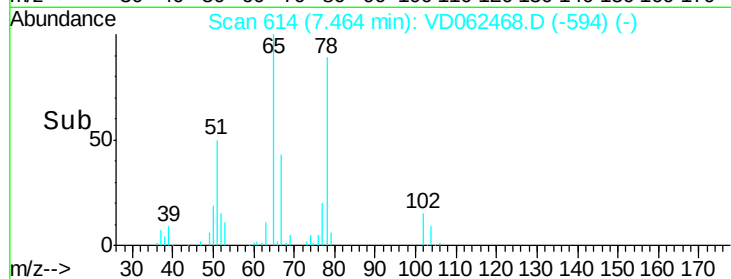
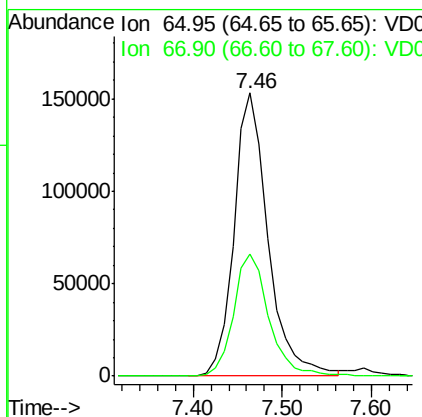
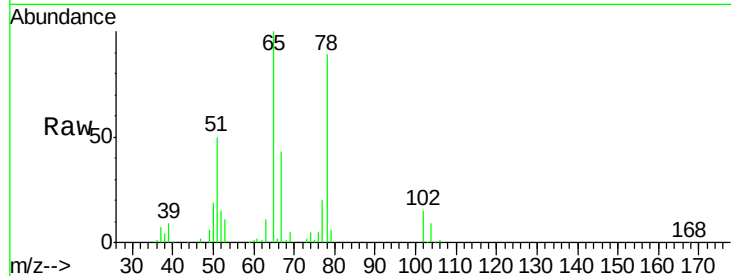




#33
 1,2-Dichloroethane-d4
 Concen: 49.688 ug/l
 RT: 7.46 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

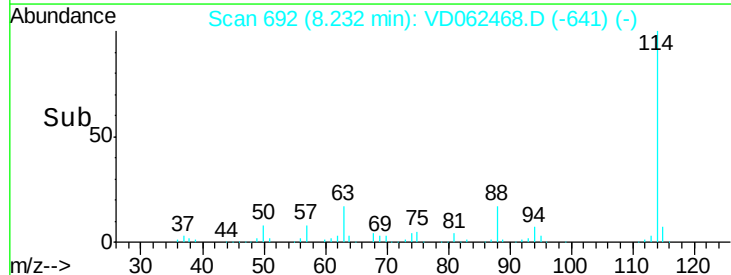
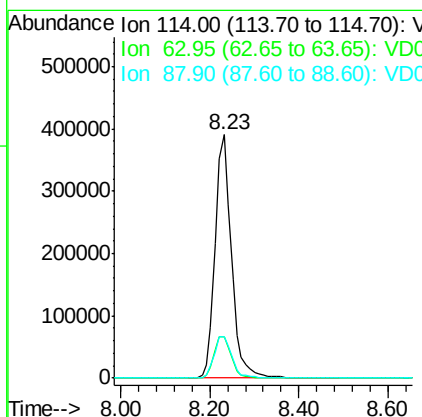
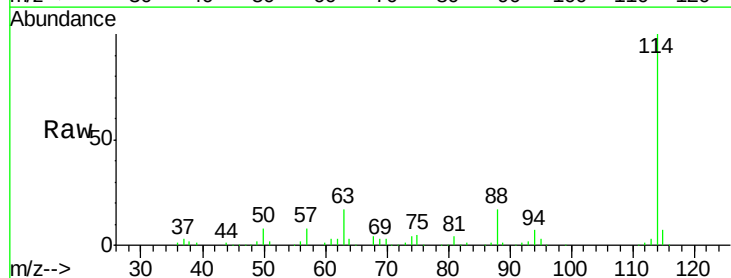
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

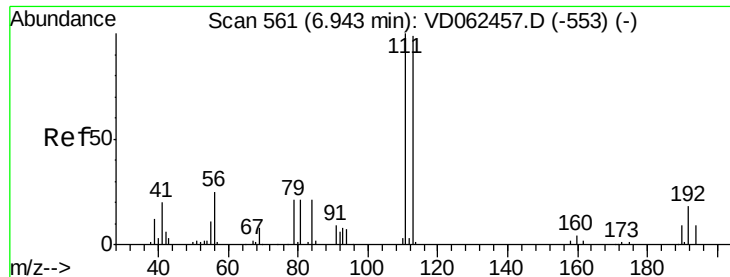
Tot Ion: 65 Resp: 406740
 Ion Ratio Lower Upper
 65 100
 67 42.9 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion: 114 Resp: 994167
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 32.4
 88 17.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.206 ug/l

RT: 6.93 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

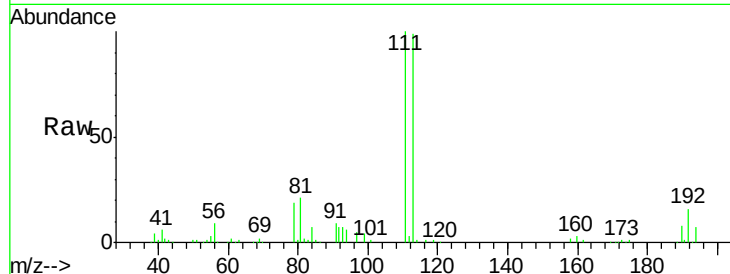
Tot Ion:113 Resp: 468215

Ion Ratio Lower Upper

113 100

111 100.7 78.5 117.7

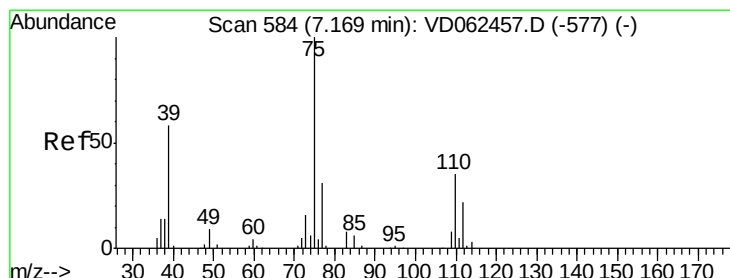
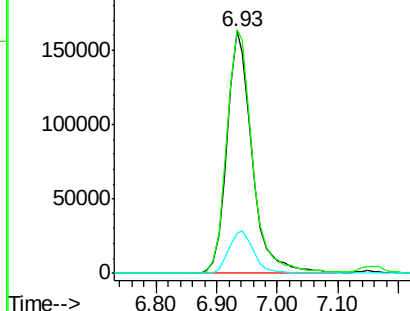
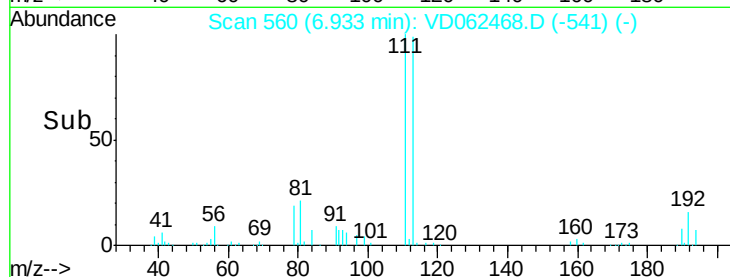
192 16.6 13.0 19.4



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: 20.319 ug/l

RT: 7.15 min Scan# 582

Delta R.T. -0.02 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

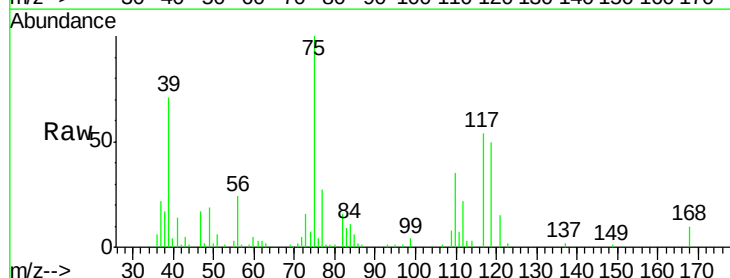
Tgt Ion: 75 Resp: 193133

Ion Ratio Lower Upper

75 100

110 34.6 19.1 57.1

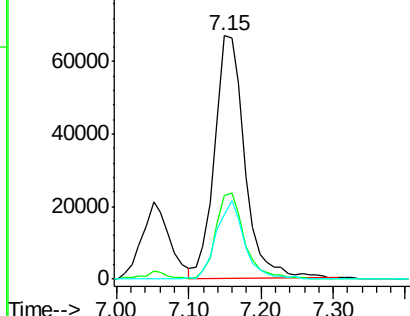
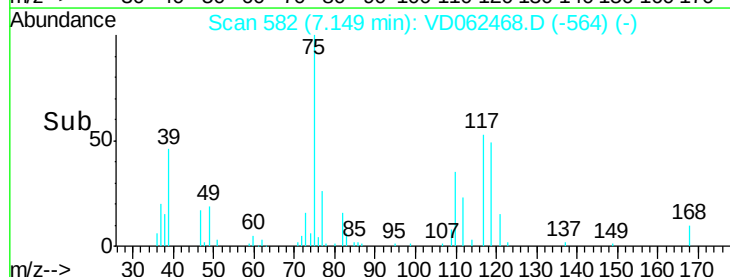
77 26.6 25.6 38.4

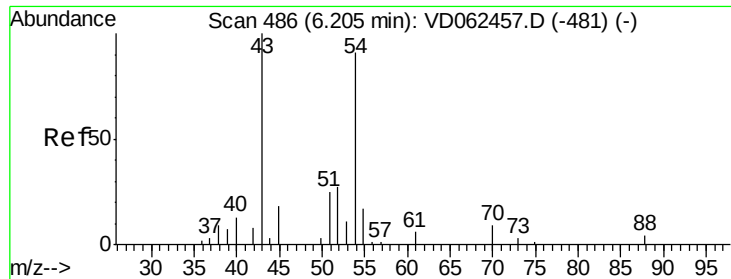


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

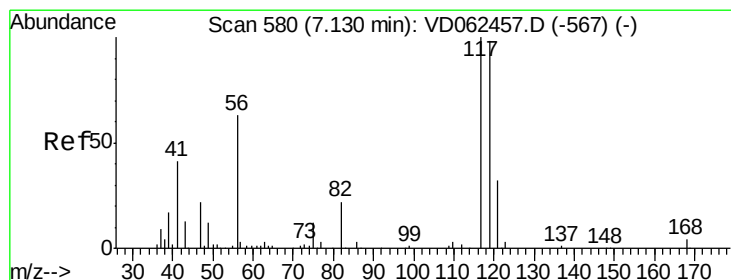
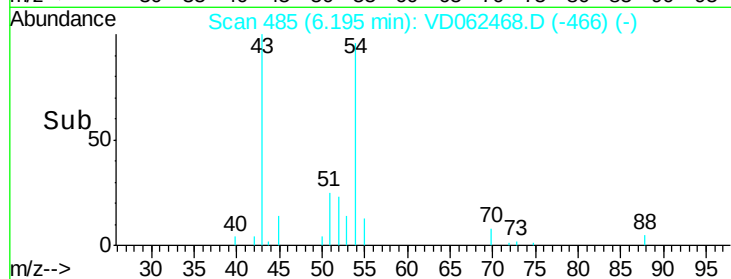
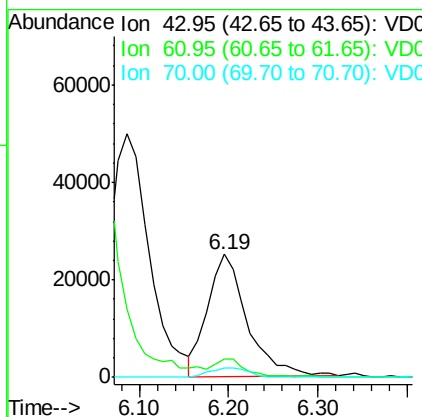
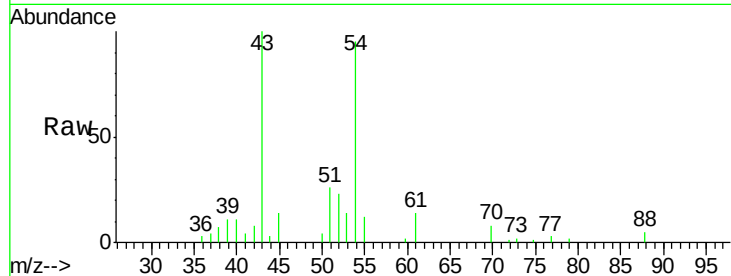




#37
Ethyl Acetate
Concen: 20.843 ug/l
RT: 6.19 min Scan# 485
Delta R.T. -0.01 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

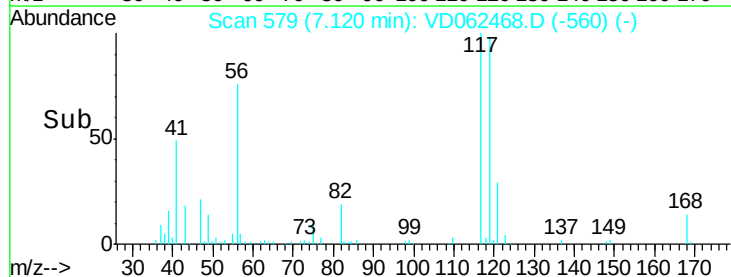
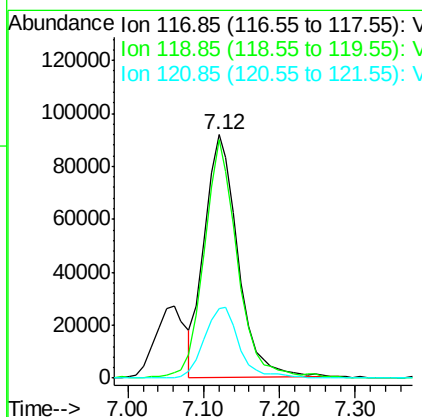
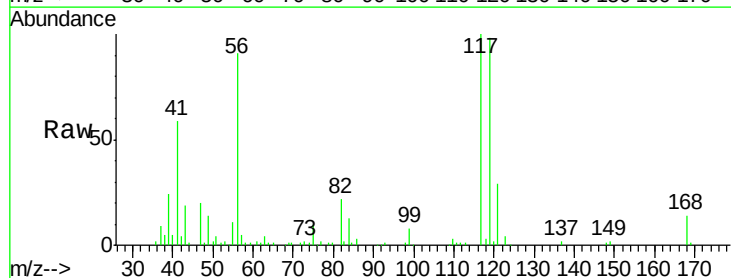
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

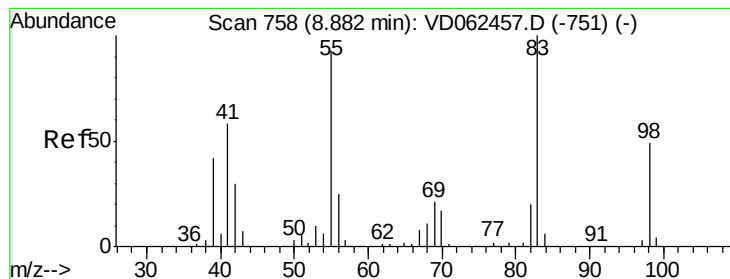
Tot Ion: 43 Resp: 76961
Ion Ratio Lower Upper
43 100
61 14.4 14.7 22.1#
70 8.1 7.8 11.6



#38
Carbon Tetrachloride
Concen: 20.100 ug/l
RT: 7.12 min Scan# 579
Delta R.T. -0.01 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 117 Resp: 283938
Ion Ratio Lower Upper
117 100
119 97.7 75.8 113.8
121 28.7 25.9 38.9





#39

Methylvlcyclohexane

Concen: 20.862 ug/l

RT: 8.87 min Scan# 757

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

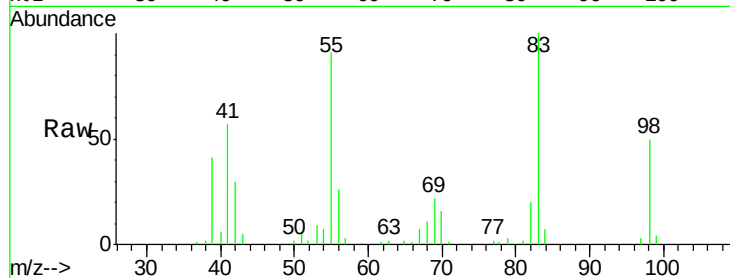
Tot Ion: 83 Resp: 163550

Ion Ratio Lower Upper

83 100

55 91.2 68.2 102.4

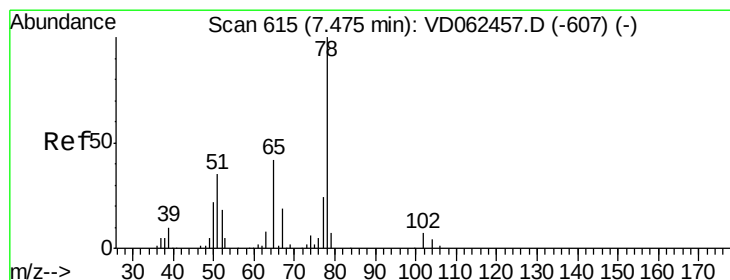
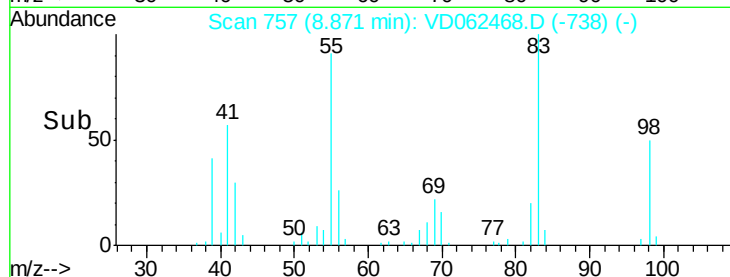
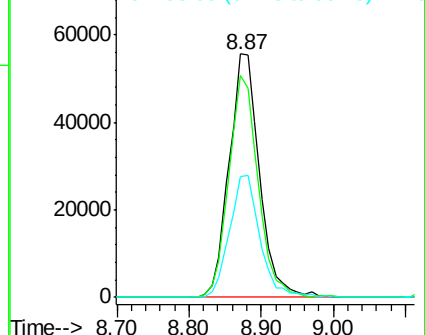
98 49.5 38.2 57.4



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: 21.094 ug/l

RT: 7.46 min Scan# 614

Delta R.T. -0.01 min

Lab File: VD062468.D

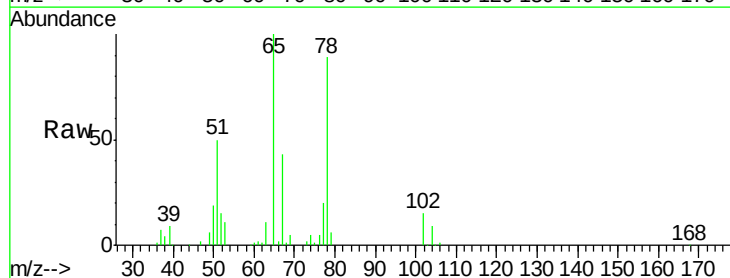
Acq: 20 May 2019 20:52

Tgt Ion: 78 Resp: 393286

Ion Ratio Lower Upper

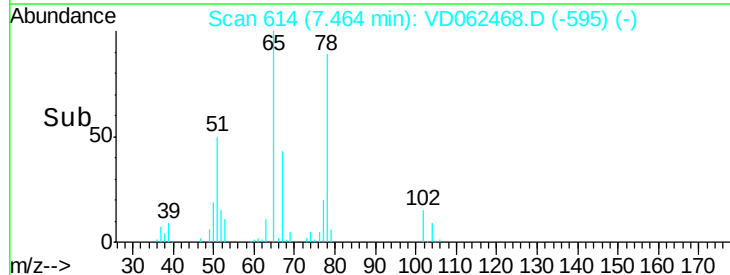
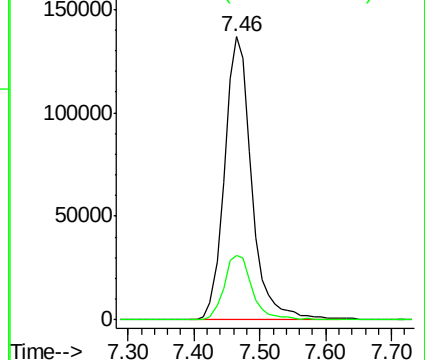
78 100

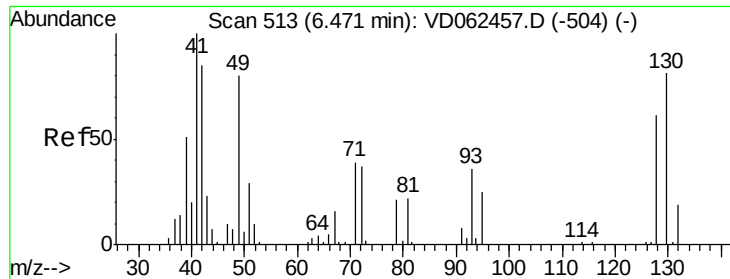
77 22.8 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 20.939 ug/l

RT: 6.47 min Scan# 513

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

Tot Ion: 41 Resp: 97104

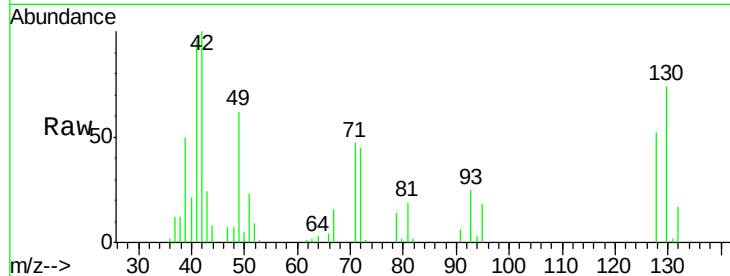
Ion Ratio Lower Upper

41 100

39 51.8 34.1 51.1#

67 16.8 23.8 35.6#

52 9.4 8.8 13.2

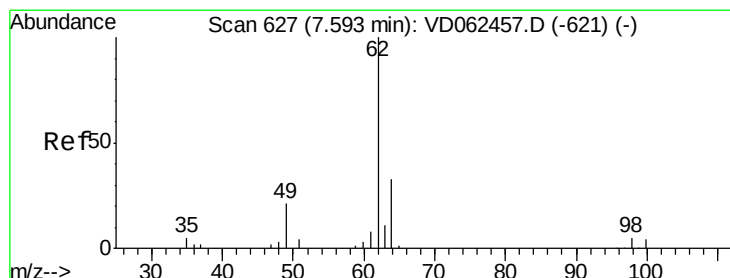
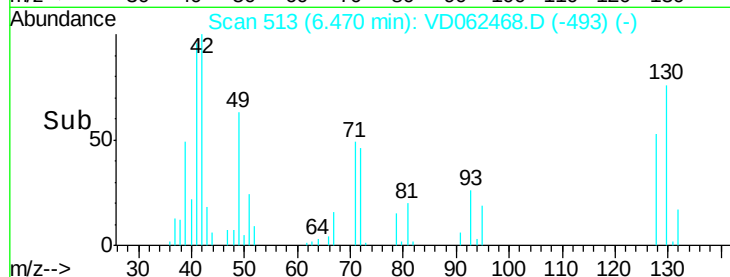
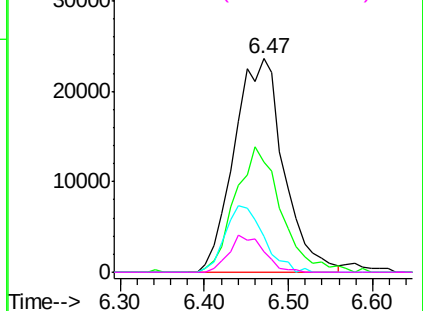


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 20.666 ug/l

RT: 7.59 min Scan# 627

Delta R.T. -0.00 min

Lab File: VD062468.D

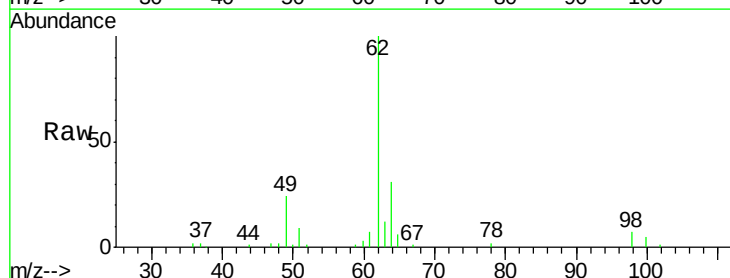
Acq: 20 May 2019 20:52

Tgt Ion: 62 Resp: 204026

Ion Ratio Lower Upper

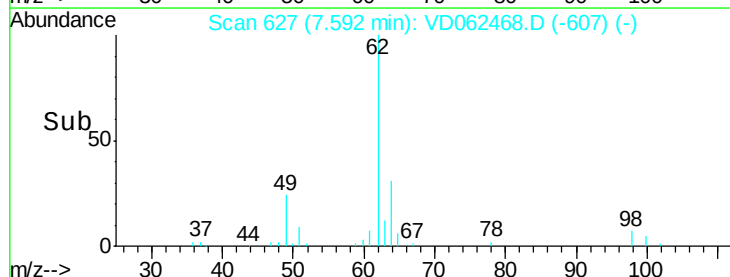
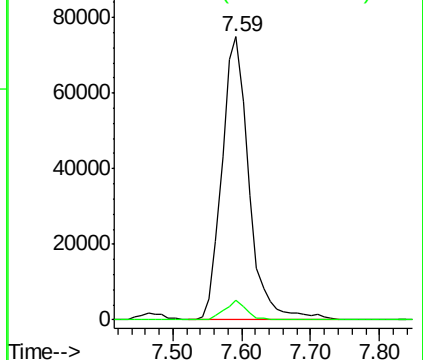
62 100

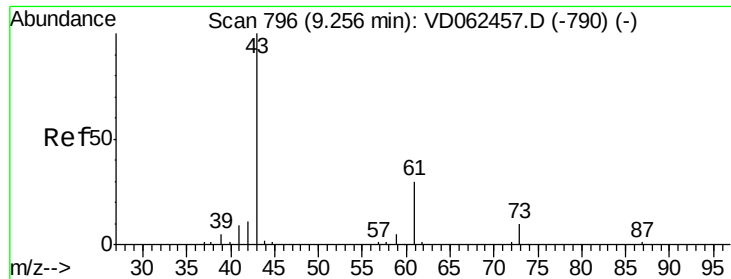
98 6.8 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 22.265 ug/l

RT: 9.25 min Scan# 795

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

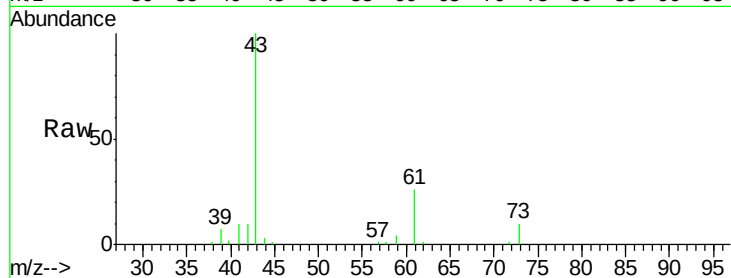
Tot Ion: 43 Resp: 109067

Ion Ratio Lower Upper

43 100

61 25.6 25.1 37.7

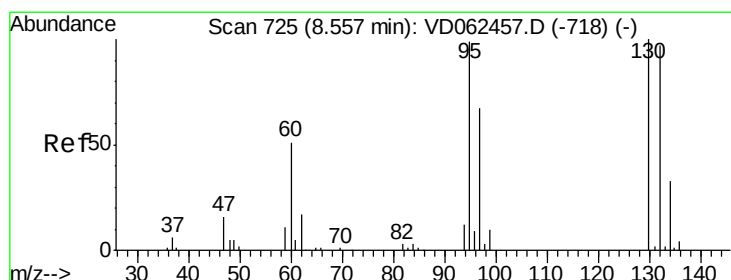
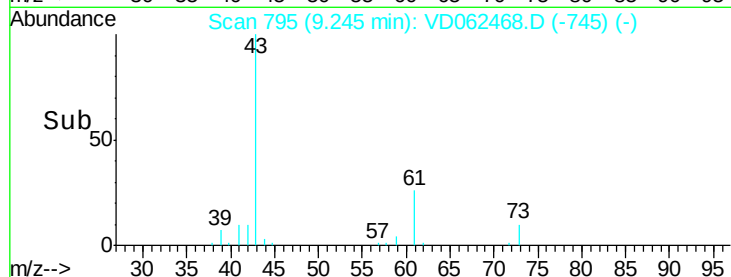
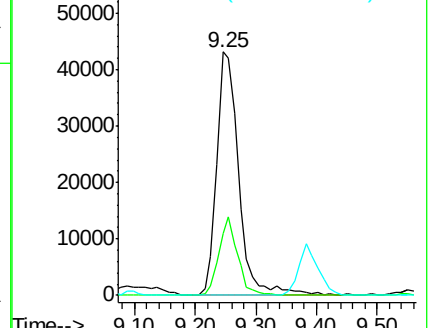
87 0.0 0.0 0.0



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: 20.286 ug/l

RT: 8.55 min Scan# 724

Delta R.T. -0.01 min

Lab File: VD062468.D

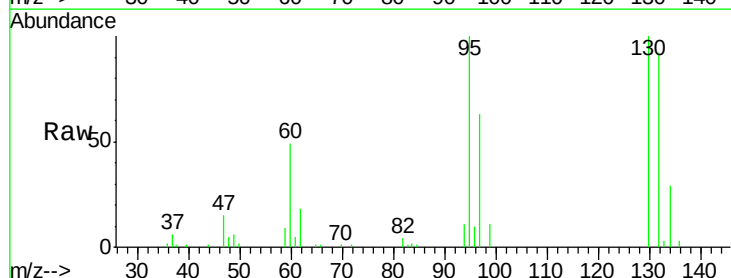
Acq: 20 May 2019 20:52

Tgt Ion:130 Resp: 151430

Ion Ratio Lower Upper

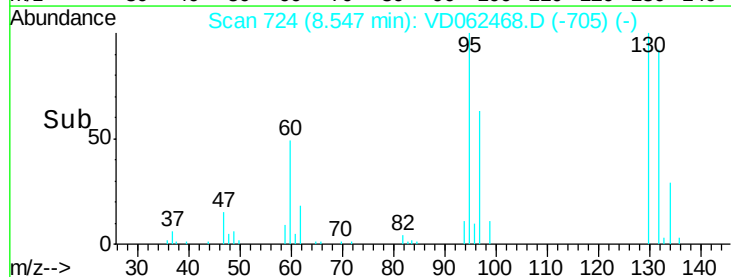
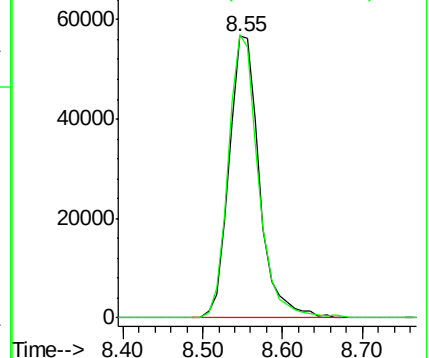
130 100

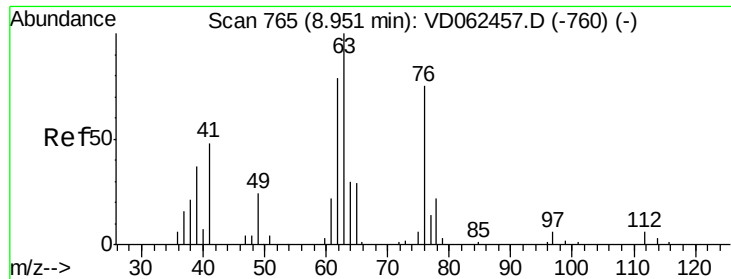
95 100.4 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 21.608 ug/l

RT: 8.95 min Scan# 765

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

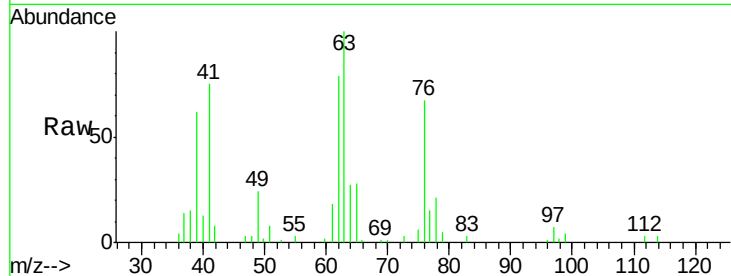
VD0520SBSD01

Tot Ion: 63 Resp: 98176

Ion Ratio Lower Upper

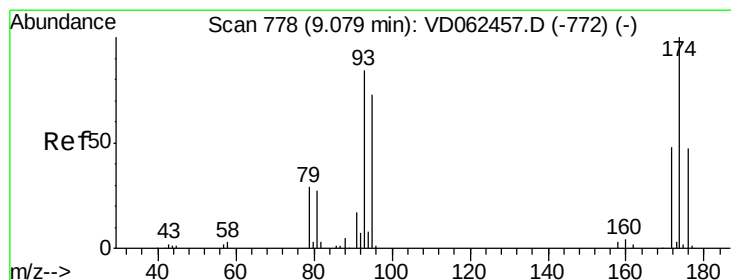
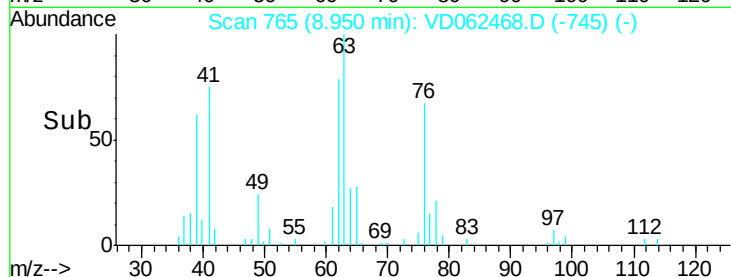
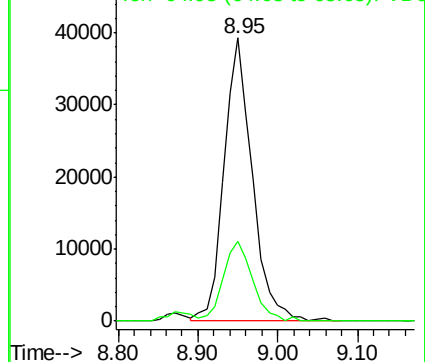
63 100

65 28.1 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: 21.291 ug/l

RT: 9.08 min Scan# 778

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

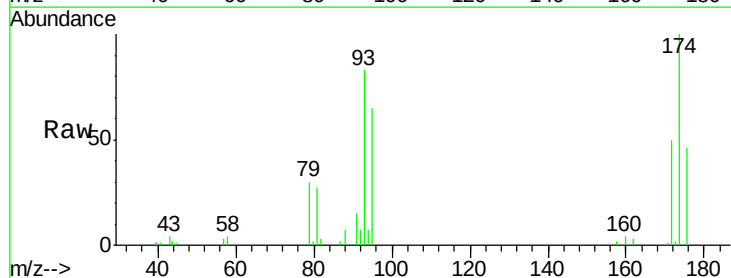
Tgt Ion: 93 Resp: 87689

Ion Ratio Lower Upper

93 100

95 78.3 64.8 97.2

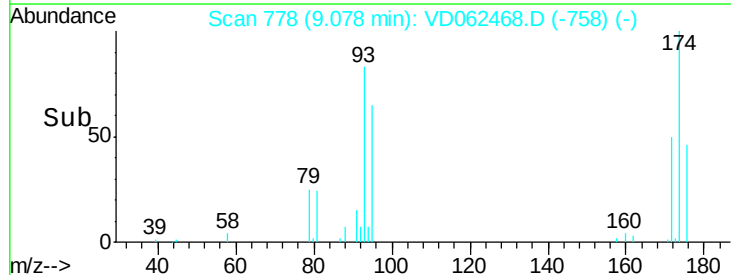
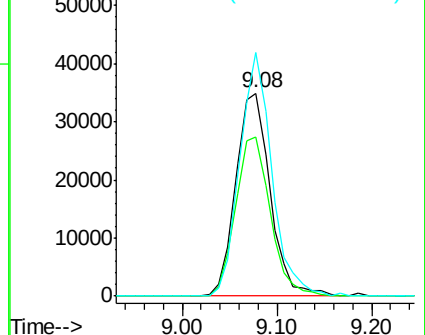
174 120.0 79.3 118.9#

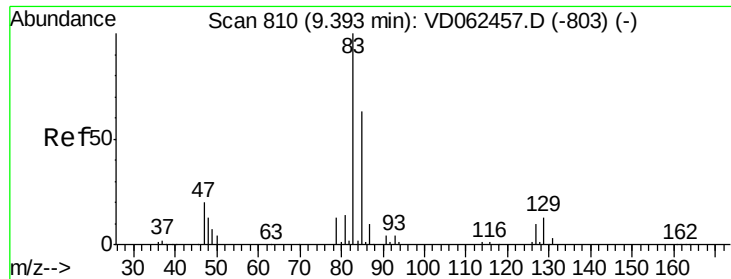


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.097 ug/l

RT: 9.38 min Scan# 809

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

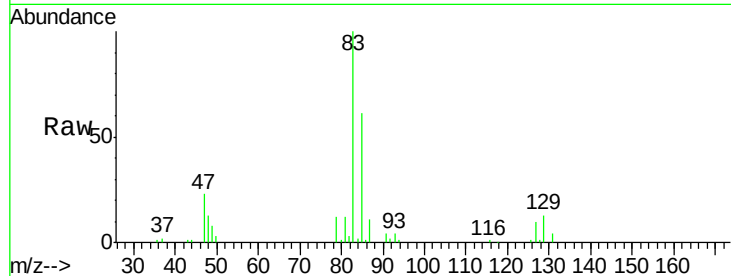
Tot Ion: 83 Resp: 210557

Ion Ratio Lower Upper

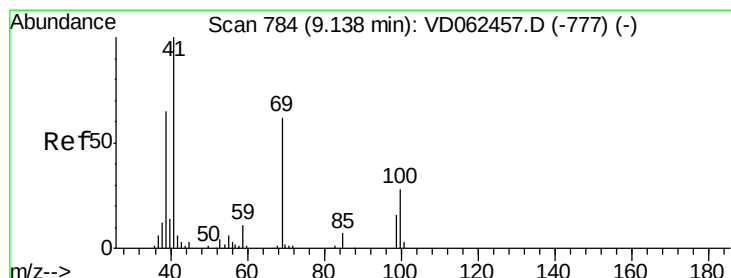
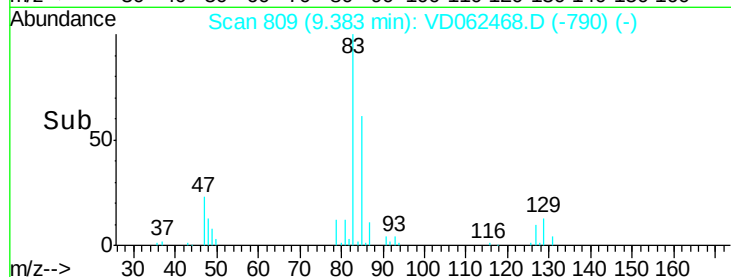
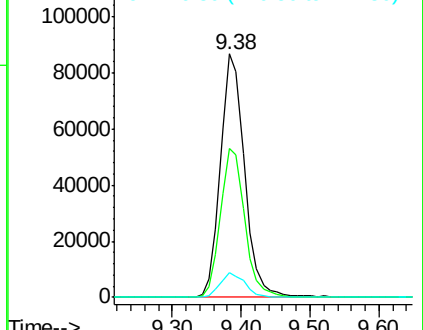
83 100

85 61.2 50.9 76.3

127 10.2 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): V



#48

Methyl methacrylate

Concen: 21.423 ug/l

RT: 9.13 min Scan# 783

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

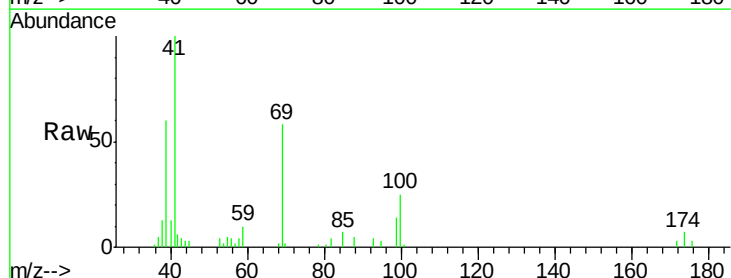
Tgt Ion: 41 Resp: 70620

Ion Ratio Lower Upper

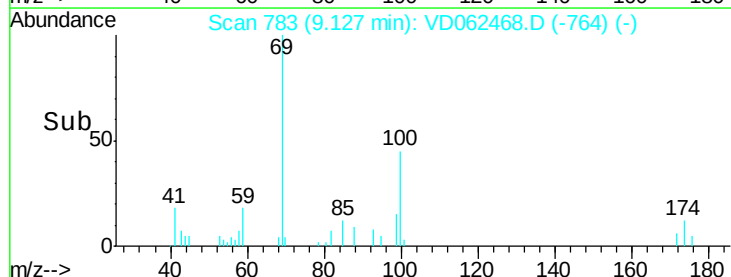
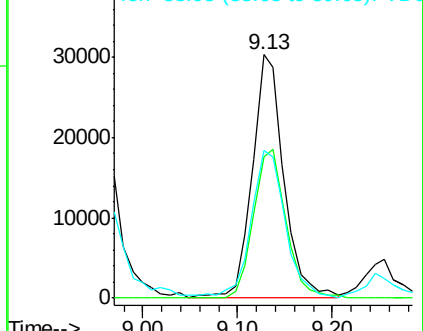
41 100

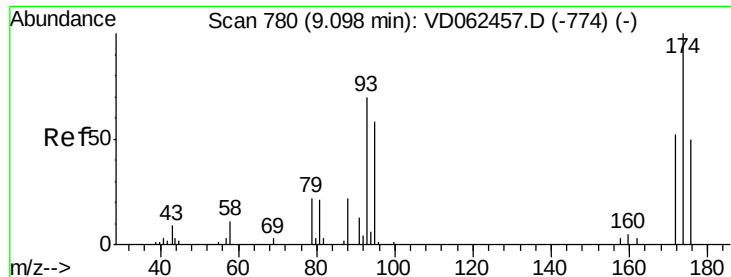
69 58.2 64.2 96.2#

39 60.5 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: 504.397 ug/l

RT: 9.09 min Scan# 779

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

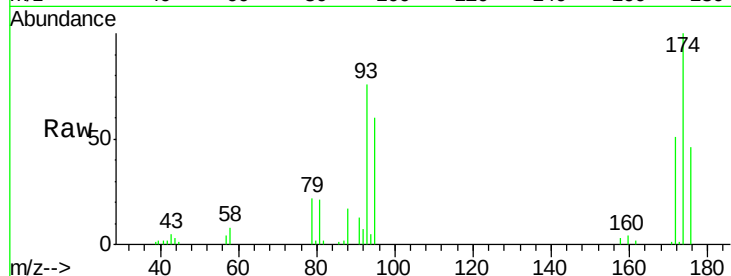
Tot Ion: 88 Resp: 14914

Ion Ratio Lower Upper

88 100

43 29.6 23.4 35.0

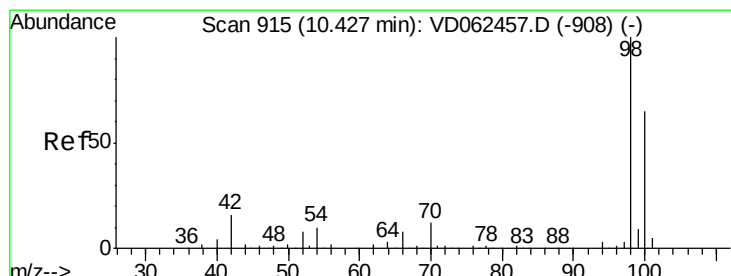
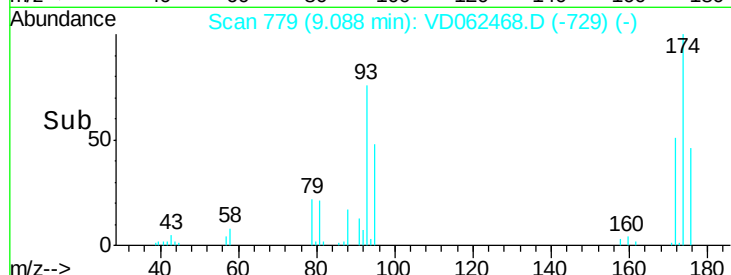
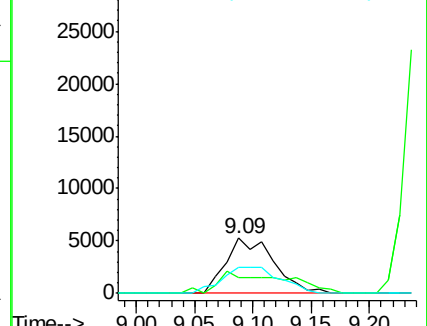
58 47.5 44.0 66.0



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 55.909 ug/l

RT: 10.42 min Scan# 914

Delta R.T. -0.01 min

Lab File: VD062468.D

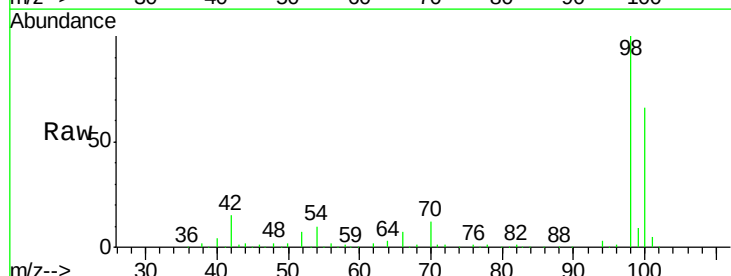
Acq: 20 May 2019 20:52

Tgt Ion: 98 Resp: 1097320

Ion Ratio Lower Upper

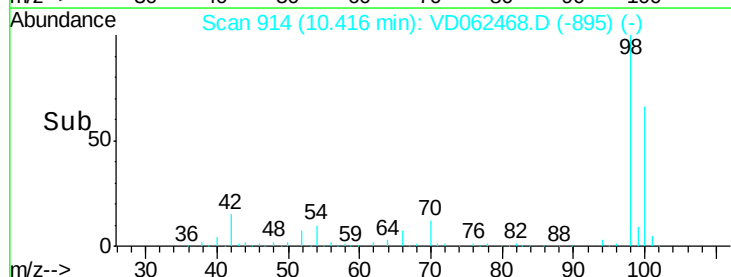
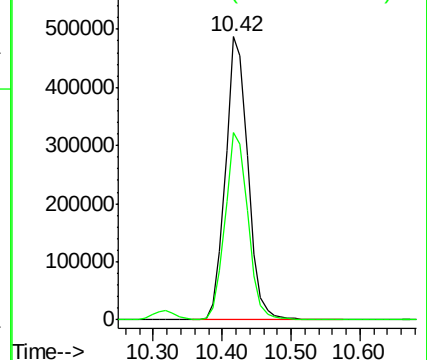
98 100

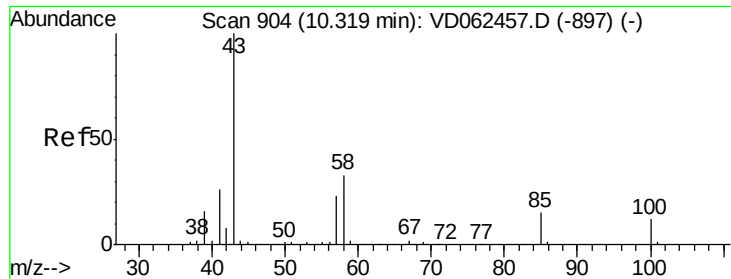
100 66.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 104.899 ug/l

RT: 10.31 min Scan# 903

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

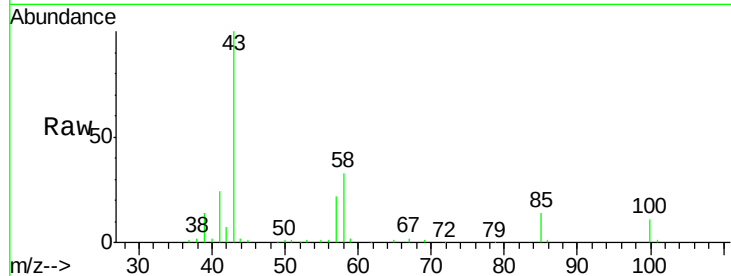
VD0520SBS01

Tot Ion: 43 Resp: 339458

Ion Ratio Lower Upper

43 100

58 32.8 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

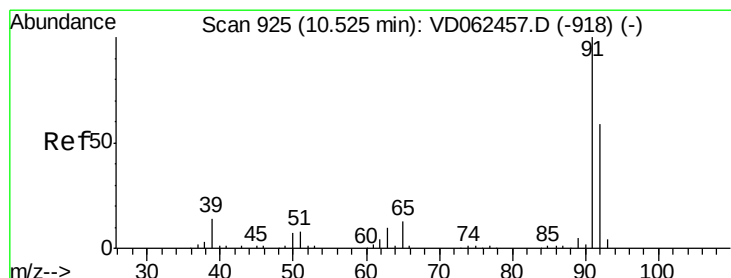
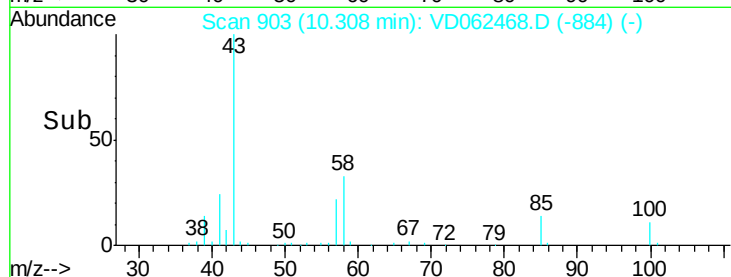
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.278 ug/l

RT: 10.51 min Scan# 924

Delta R.T. -0.01 min

Lab File: VD062468.D

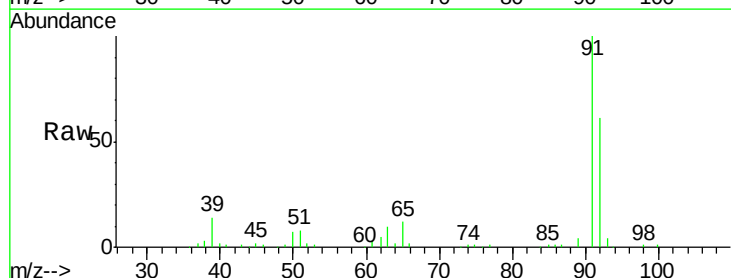
Acq: 20 May 2019 20:52

Tgt Ion: 92 Resp: 258813

Ion Ratio Lower Upper

92 100

91 163.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.51

200000

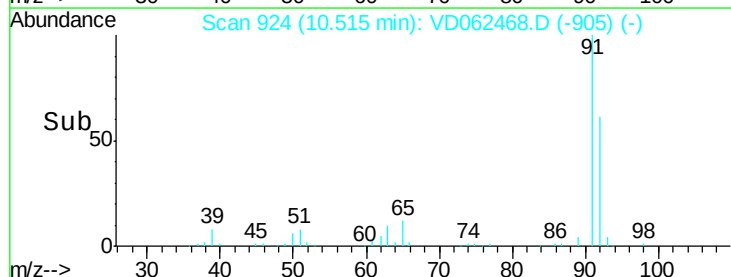
150000

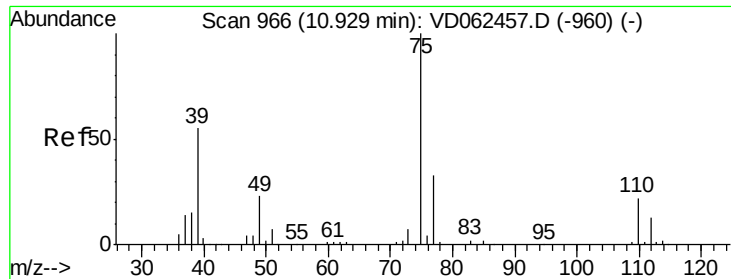
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.191 ug/l

RT: 10.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

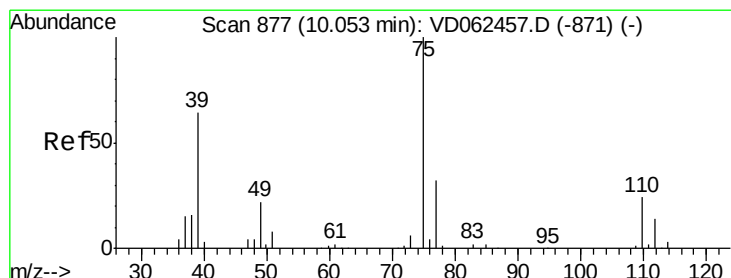
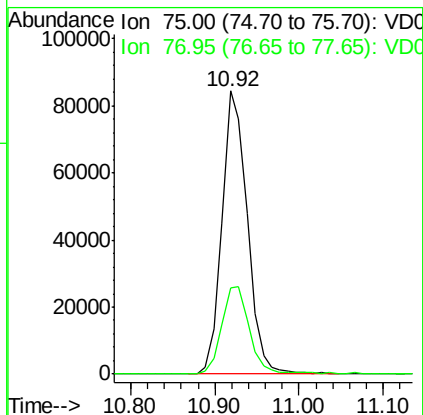
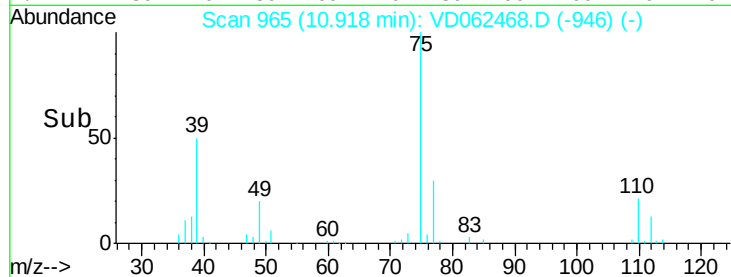
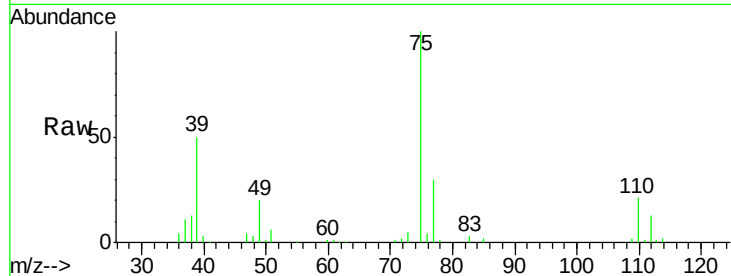
VD0520SBSD01

Tot Ion: 75 Resp: 176124

Ion Ratio Lower Upper

75 100

77 30.4 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 22.096 ug/l

RT: 10.05 min Scan# 877

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

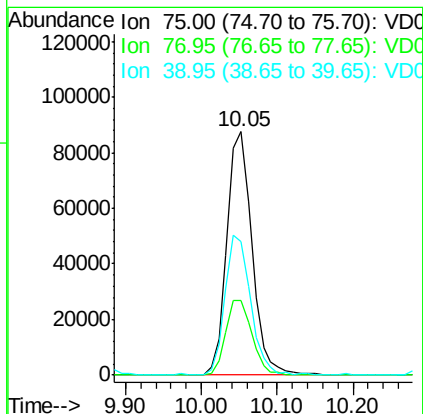
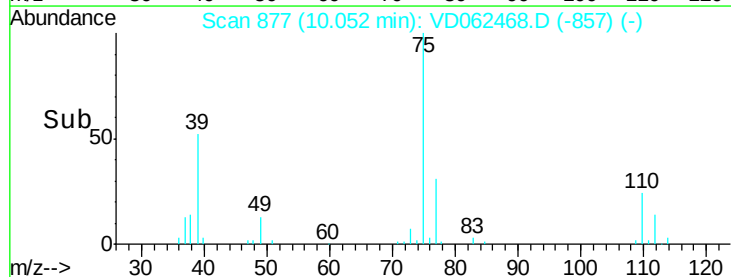
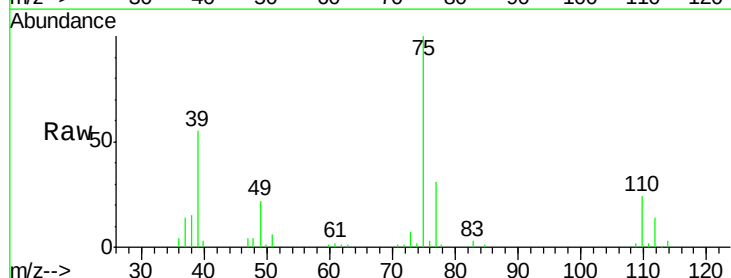
Tgt Ion: 75 Resp: 201112

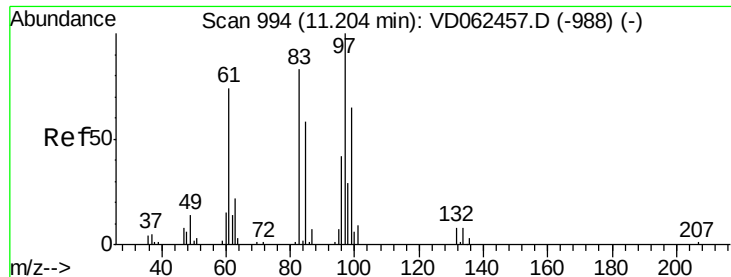
Ion Ratio Lower Upper

75 100

77 30.7 25.5 38.3

39 54.6 39.4 59.2

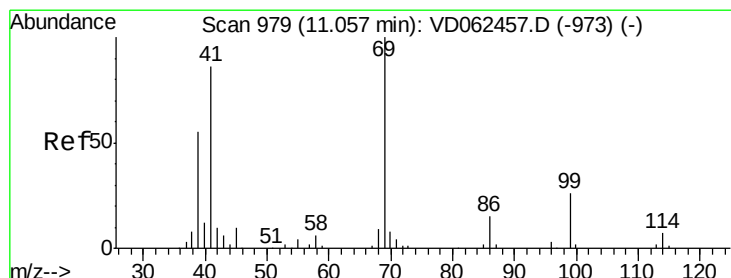
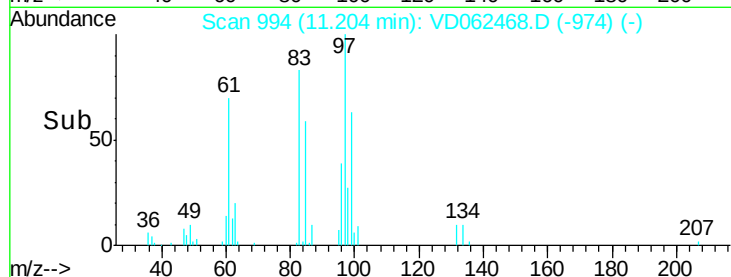
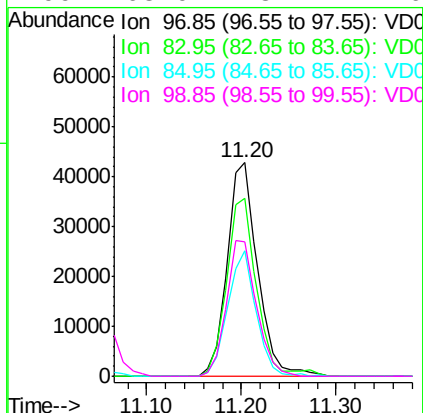
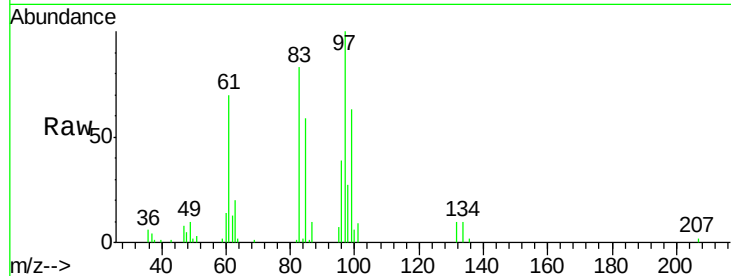




#55
 1,1,2-Trichloroethane
 Concen: 21.953 ug/l
 RT: 11.20 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

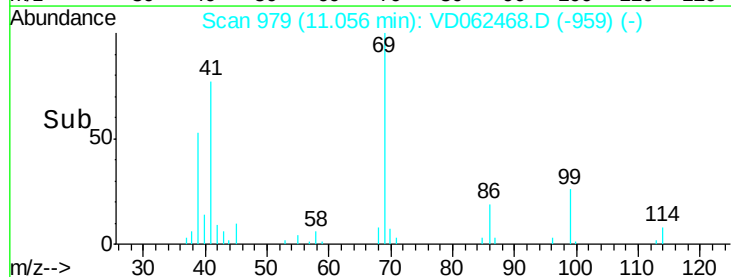
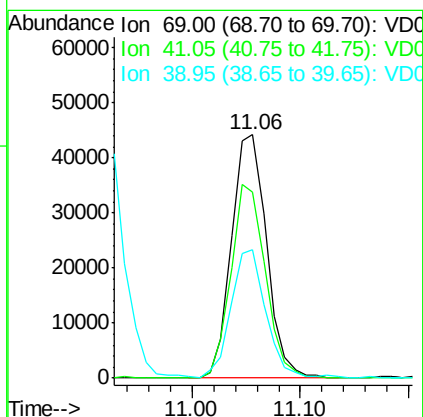
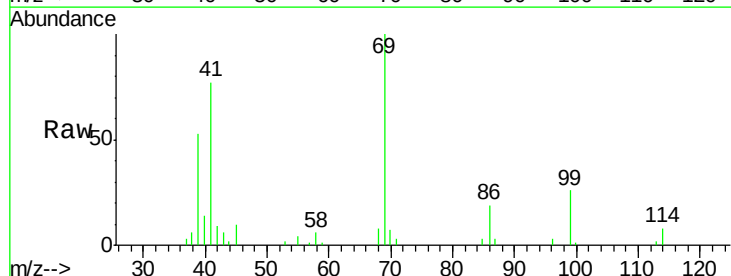
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

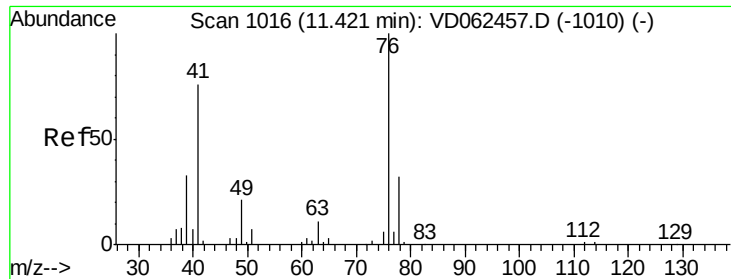
Tot Ion:	97	Resp:	94965
Ion	Ratio	Lower	Upper
97	100		
83	83.4	65.7	98.5
85	58.5	45.6	68.4
99	63.0	48.4	72.6



#56
 Ethyl methacrylate
 Concen: 21.527 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion:	69	Resp:	99549
Ion	Ratio	Lower	Upper
69	100		
41	76.6	56.3	84.5
39	52.5	29.4	44.2#





#57

1,3-Dichloropropane

Concen: 21.891 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

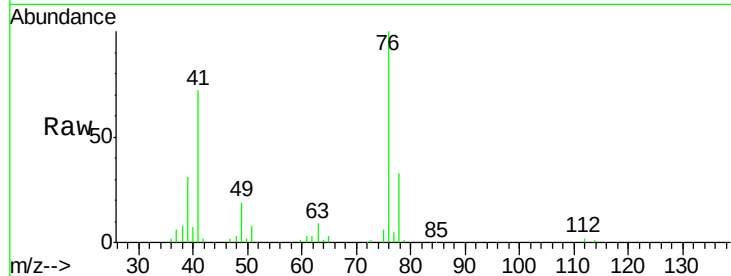
VD0520SBSD01

Tot Ion: 76 Resp: 145227

Ion Ratio Lower Upper

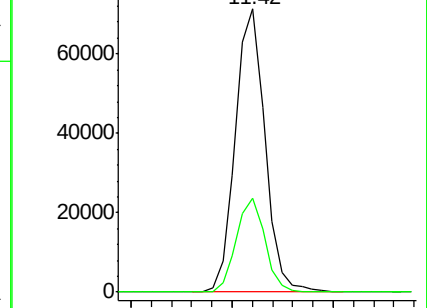
76 100

78 33.2 26.2 39.2

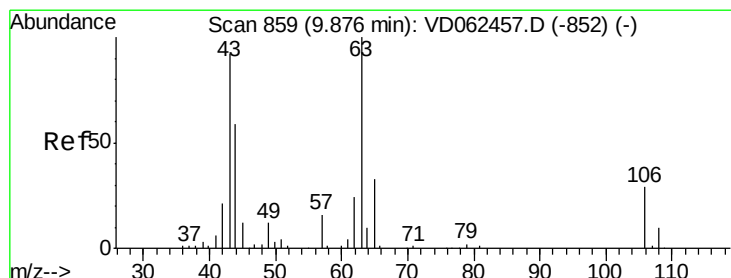
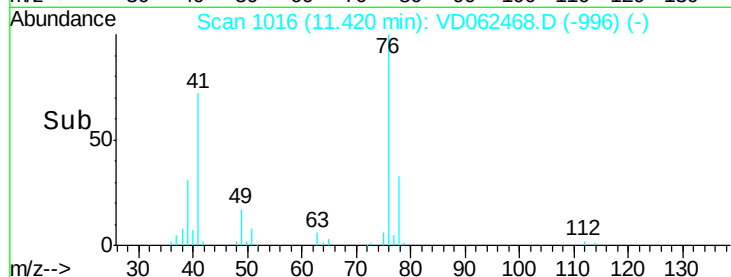


Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



Time--> 11.30 11.40 11.50



#58

2-Chloroethyl Vinyl ether

Concen: 112.377 ug/l

RT: 9.87 min Scan# 858

Delta R.T. -0.01 min

Lab File: VD062468.D

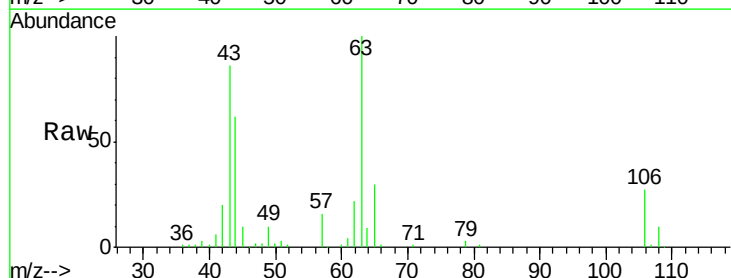
Acq: 20 May 2019 20:52

Tgt Ion: 63 Resp: 266846

Ion Ratio Lower Upper

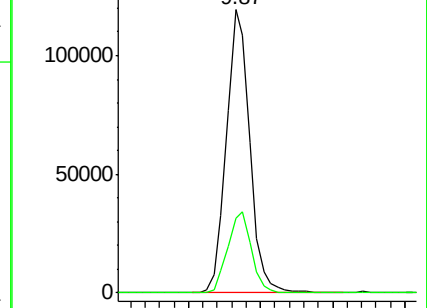
63 100

106 26.5 22.6 34.0

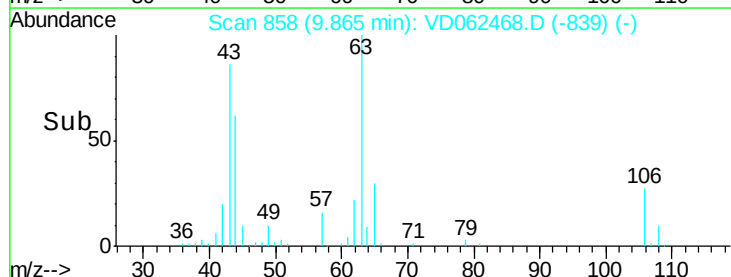


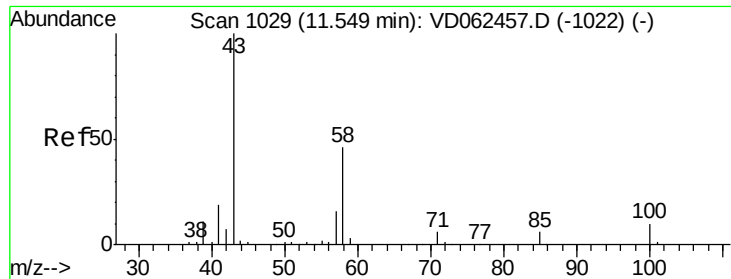
Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V



Time--> 9.80 9.90 10.00

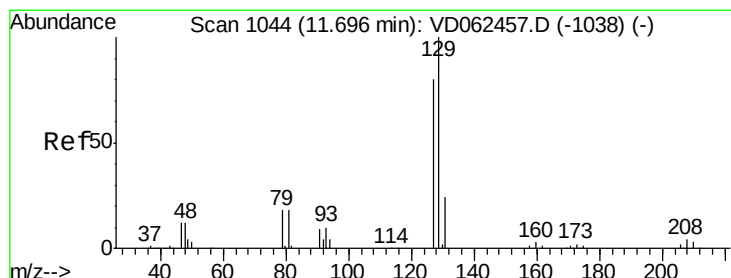
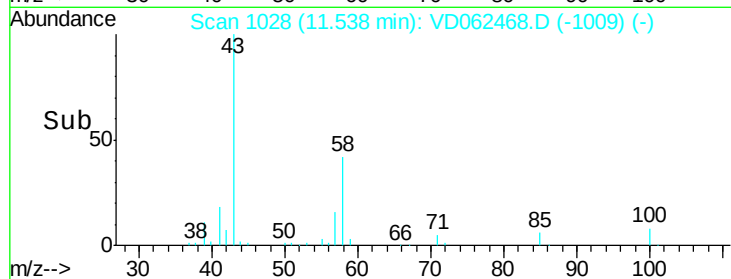
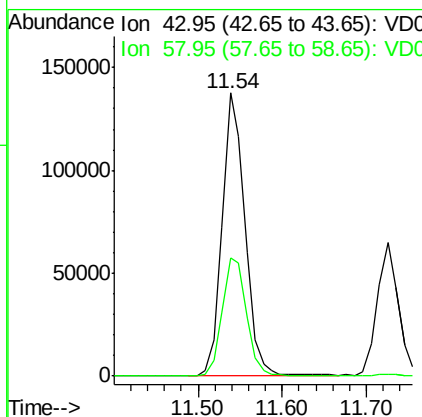
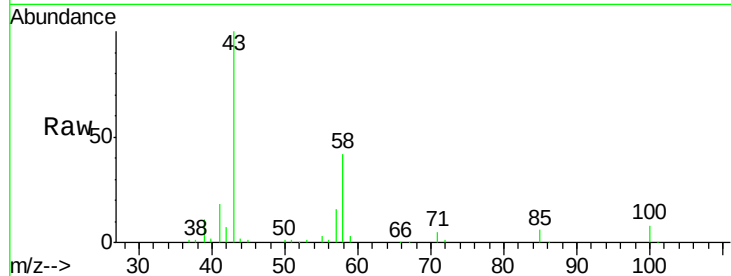




#59
2-Hexanone
Concen: 110.159 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

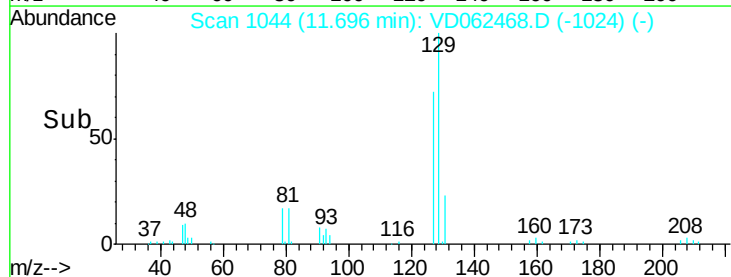
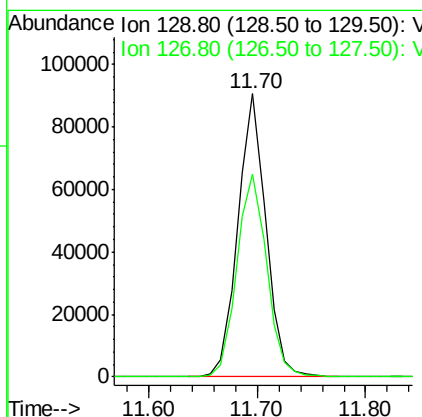
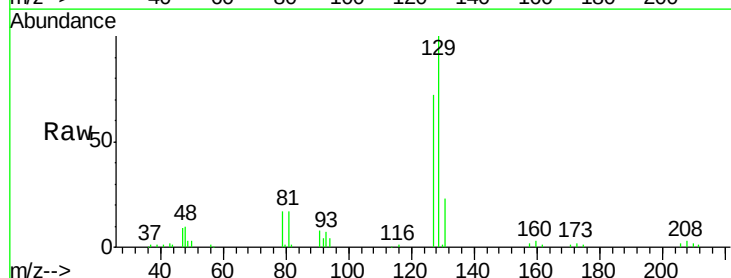
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

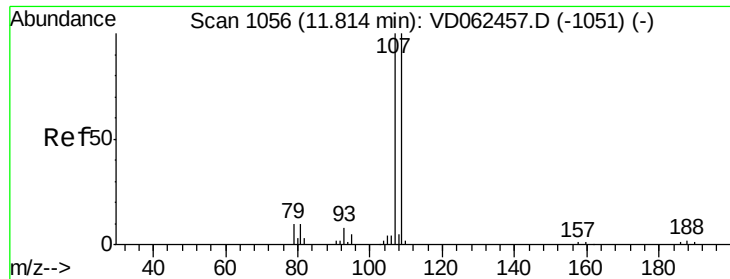
Tot Ion: 43 Resp: 259082
Ion Ratio Lower Upper
43 100
58 42.0 25.4 76.4



#60
Dibromochloromethane
Concen: 19.553 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 129 Resp: 162452
Ion Ratio Lower Upper
129 100
127 71.6 38.0 113.9

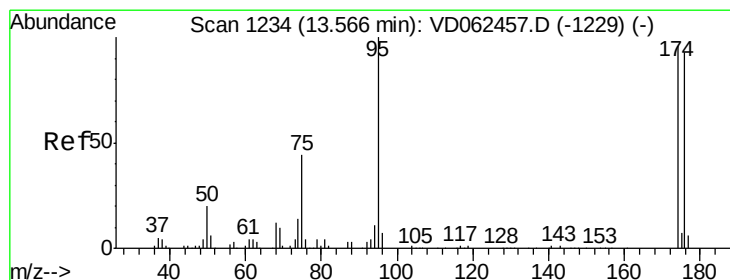
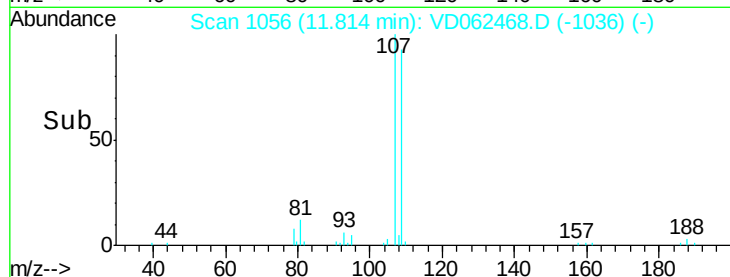
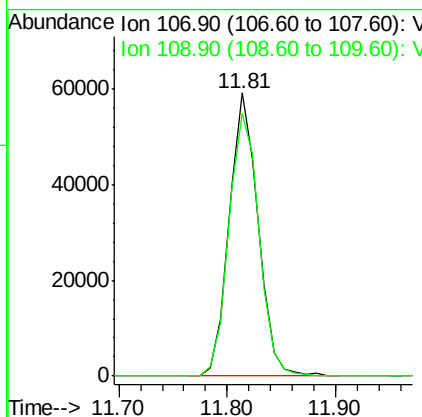
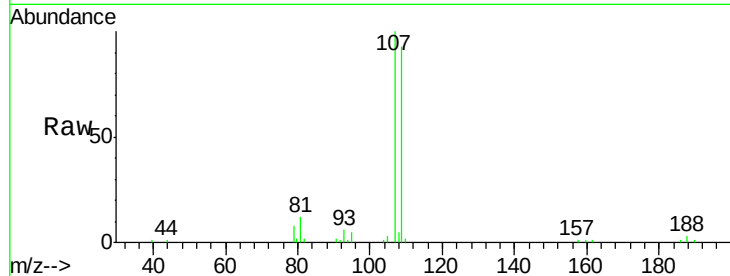




#61
 1,2-Dibromoethane
 Concen: 20.494 ug/l
 RT: 11.81 min Scan# 1056
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

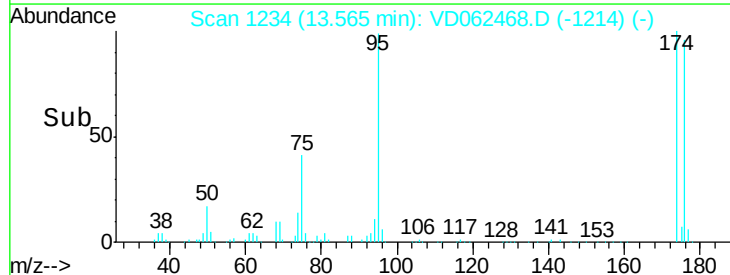
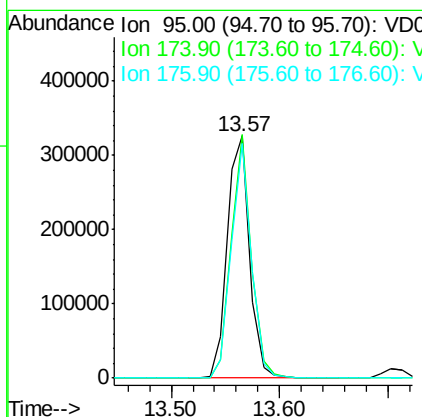
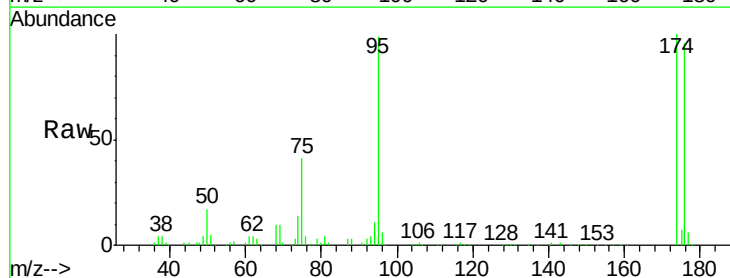
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

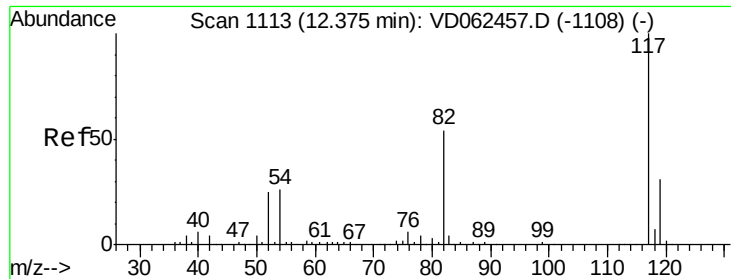
Tot Ion:107 Resp: 109254
 Ion Ratio Lower Upper
 107 100
 109 92.8 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 54.268 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion: 95 Resp: 465912
 Ion Ratio Lower Upper
 95 100
 174 100.6 0.0 181.8
 176 96.9 0.0 174.4

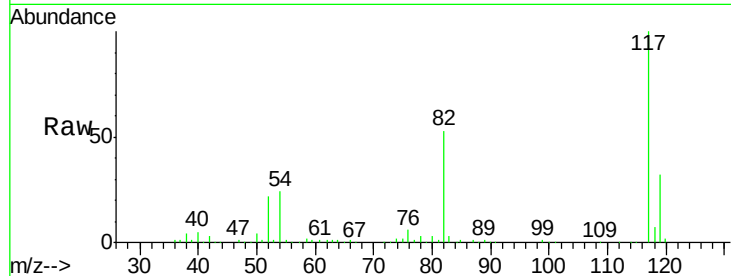




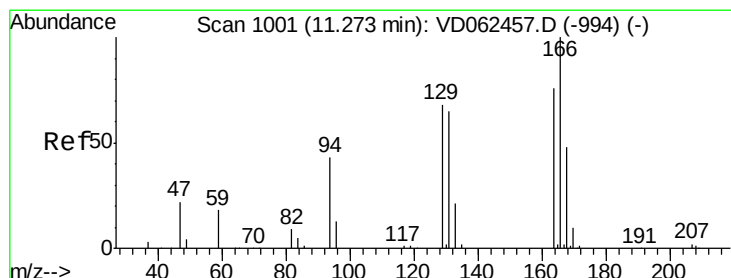
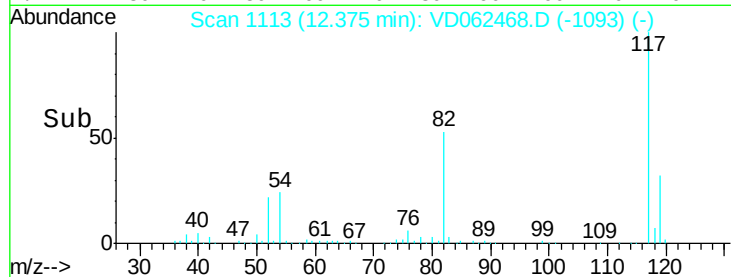
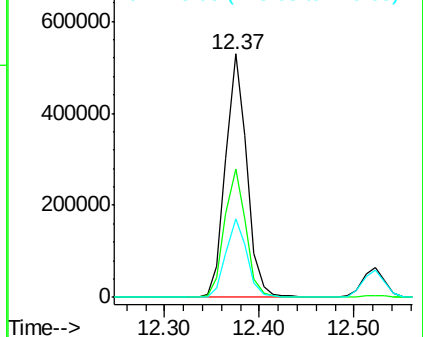
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

Tot Ion:117 Resp: 823429
Ion Ratio Lower Upper
117 100
82 52.9 36.2 54.2
119 32.2 26.2 39.4

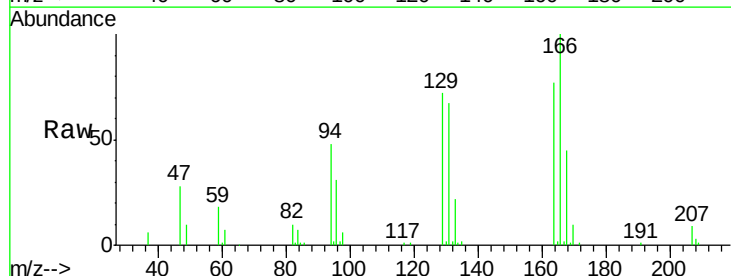


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

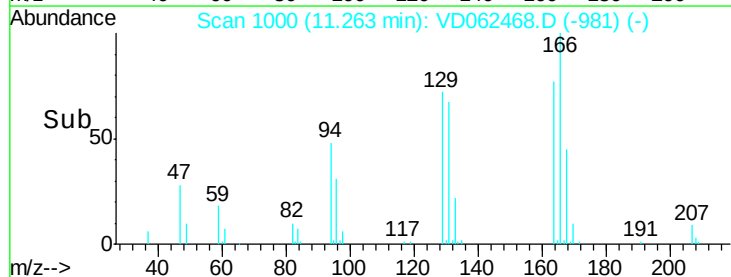
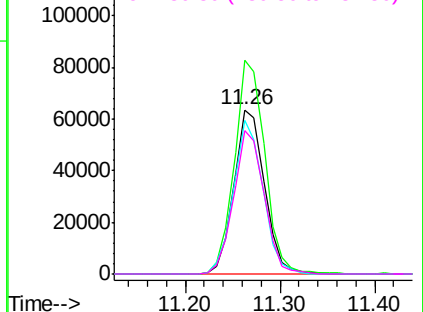


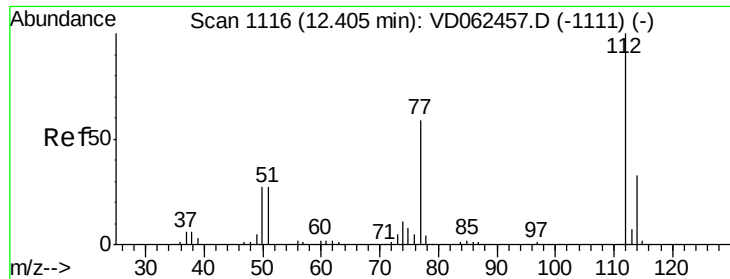
#64
Tetrachloroethene
Concen: 20.525 ug/l
RT: 11.26 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion:164 Resp: 141511
Ion Ratio Lower Upper
164 100
166 130.4 101.5 152.3
129 93.6 74.6 112.0
131 87.2 72.6 108.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

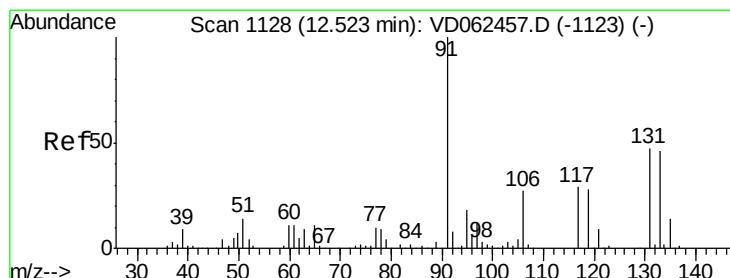
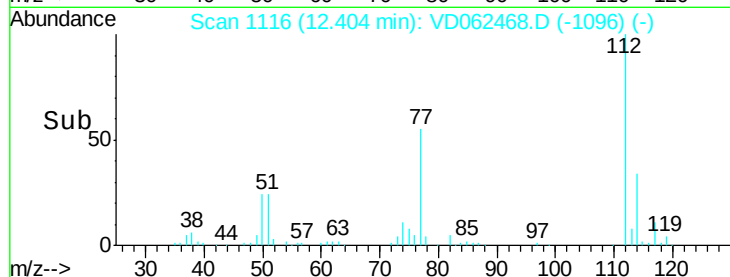
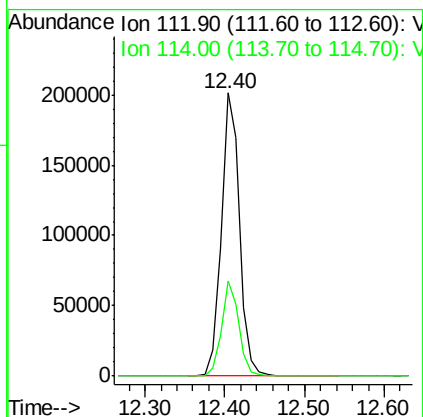
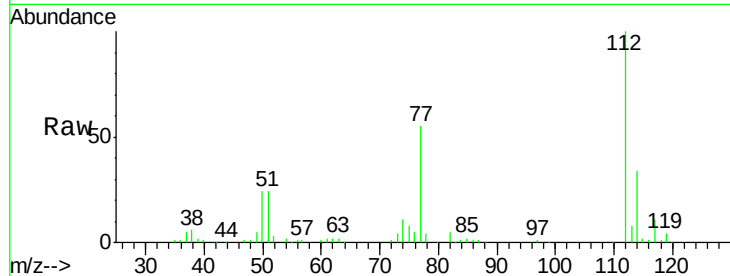




#65
Chlorobenzene
Concen: 20.417 ug/l
RT: 12.40 min Scan# 1116
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

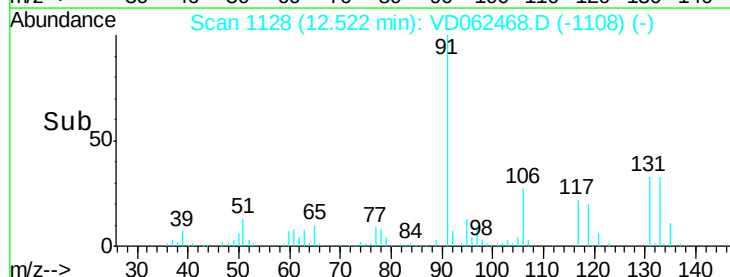
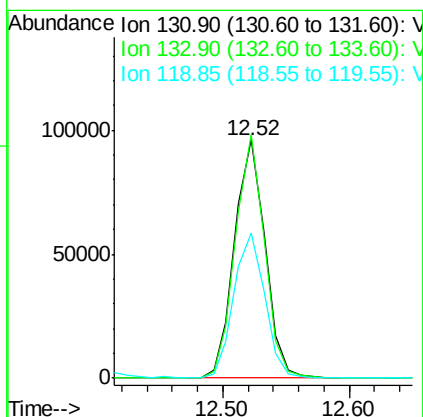
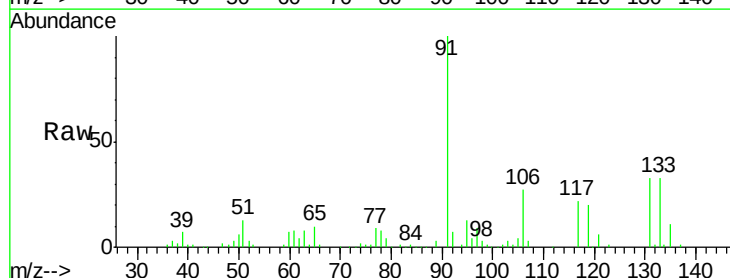
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

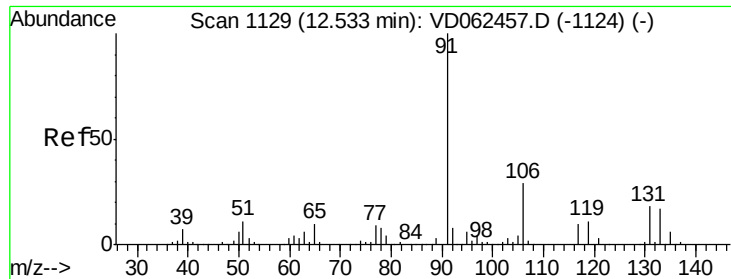
Tot Ion:112 Resp: 323297
Ion Ratio Lower Upper
112 100
114 33.8 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 22.112 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion:131 Resp: 161628
Ion Ratio Lower Upper
131 100
133 102.2 48.6 145.8
119 60.8 34.7 104.1

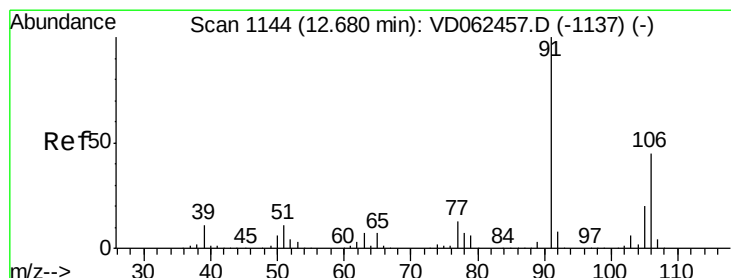
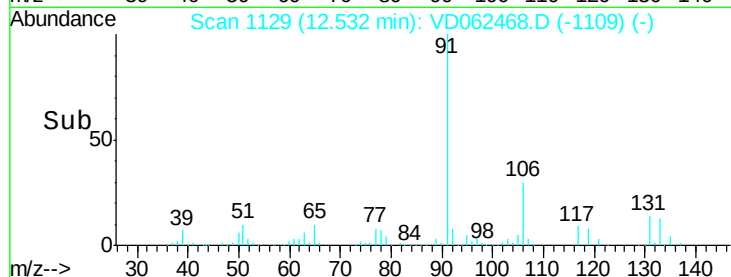
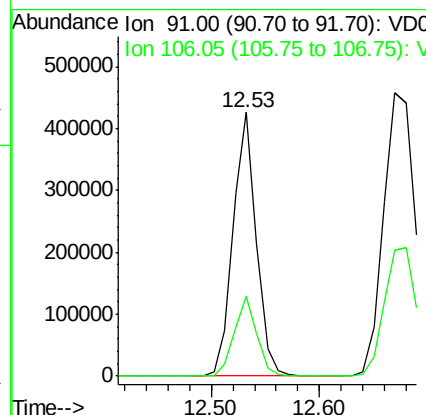
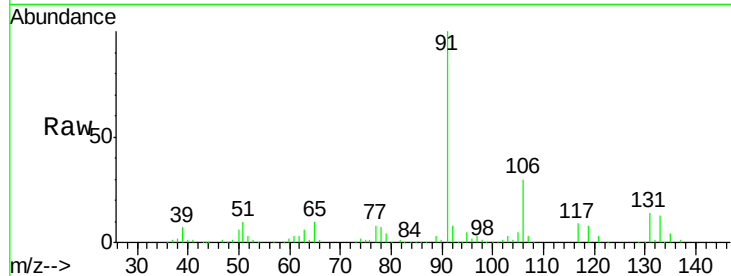




#67
Ethyl Benzene
Concen: 23.306 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

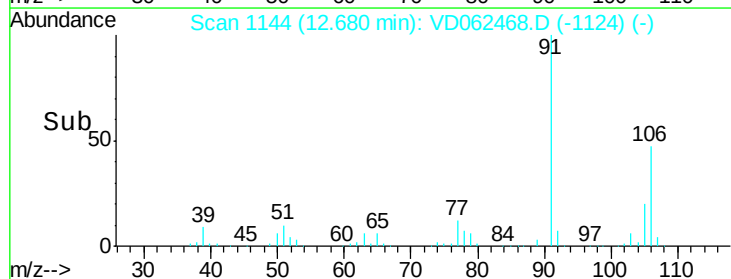
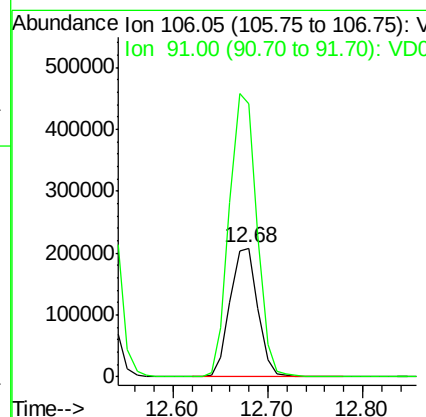
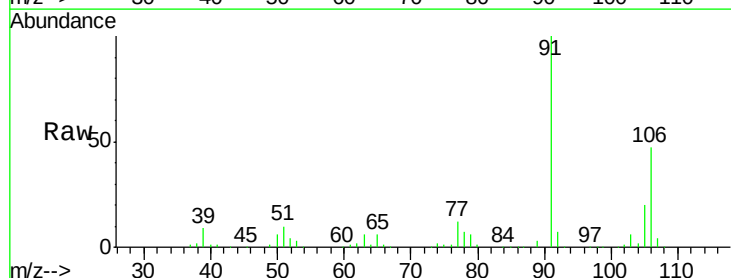
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBS01

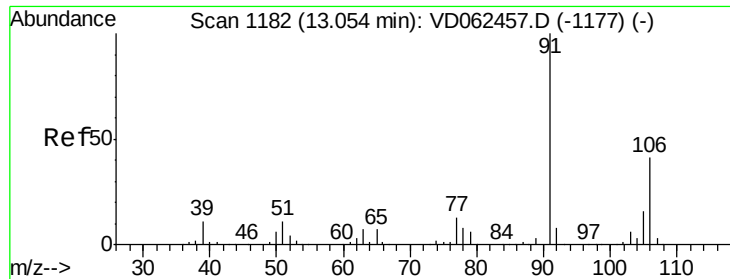
Tot Ion: 91 Resp: 635656
Ion Ratio Lower Upper
91 100
106 30.3 24.7 37.1



#68
m/p-Xylenes
Concen: 43.089 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 106 Resp: 421868
Ion Ratio Lower Upper
106 100
91 211.8 164.0 246.0

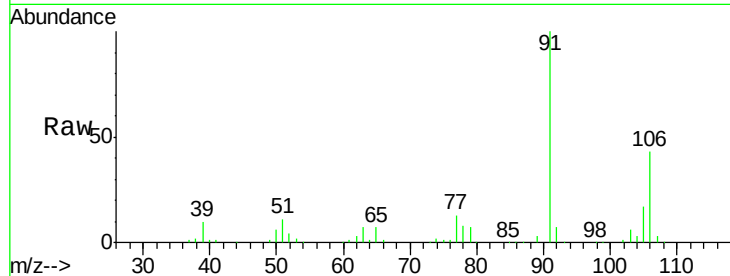




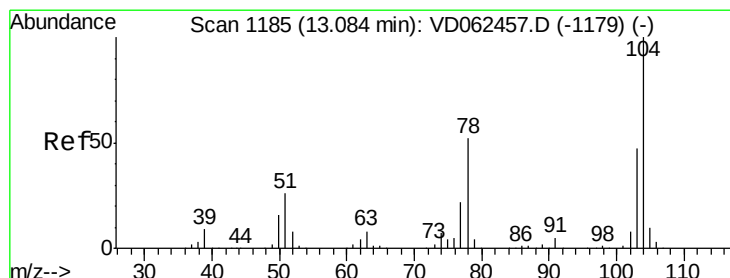
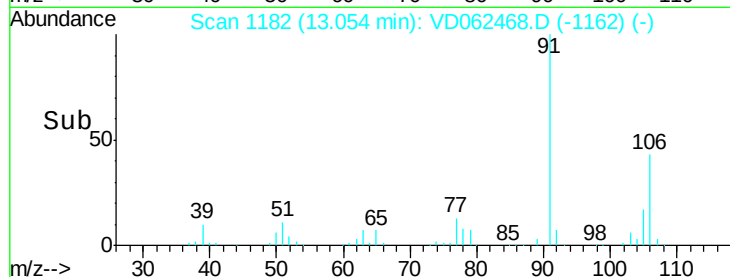
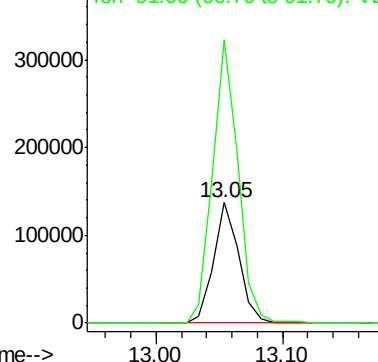
#69
o-Xylene
Concen: 20.503 ug/l
RT: 13.05 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

Tot Ion:106 Resp: 189403
Ion Ratio Lower Upper
106 100
91 234.4 106.7 319.9

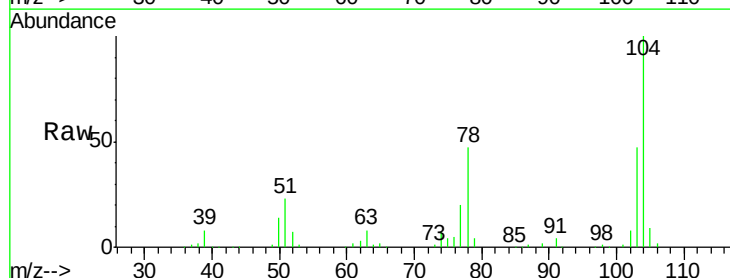


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

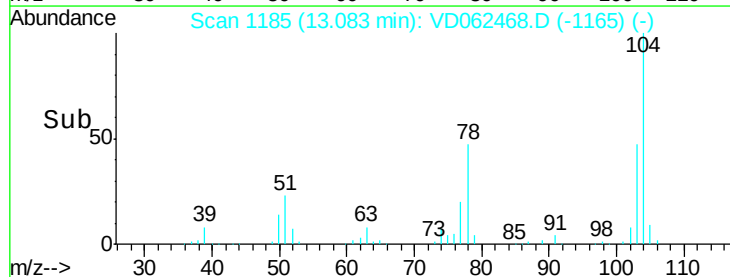
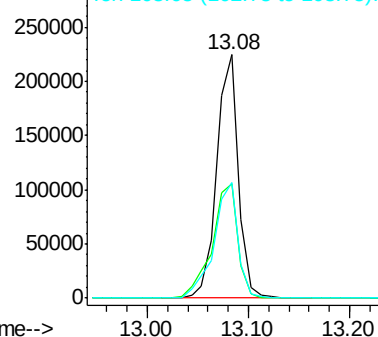


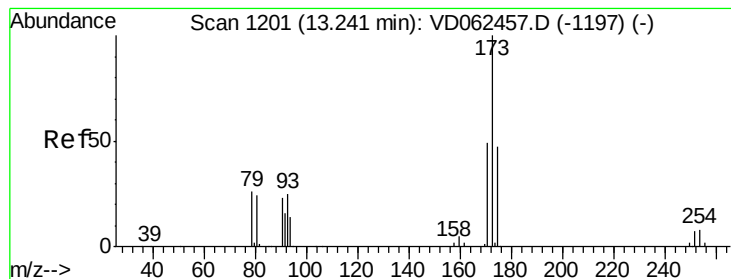
#70
Styrene
Concen: 21.272 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion:104 Resp: 334289
Ion Ratio Lower Upper
104 100
78 47.0 35.4 53.2
103 47.3 37.5 56.3



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





#71

Bromoform

Concen: 21.253 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

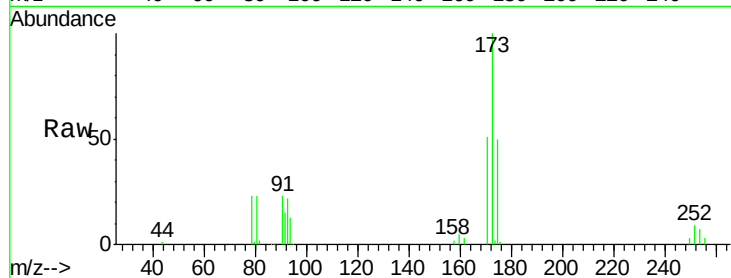
Tot Ion:173 Resp: 103168

Ion Ratio Lower Upper

173 100

175 50.2 24.4 73.4

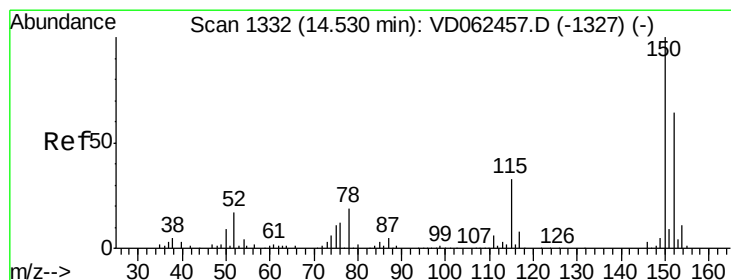
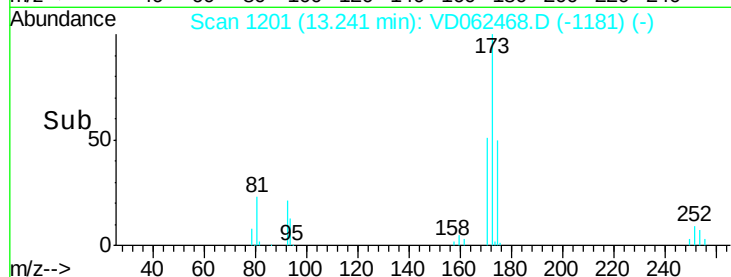
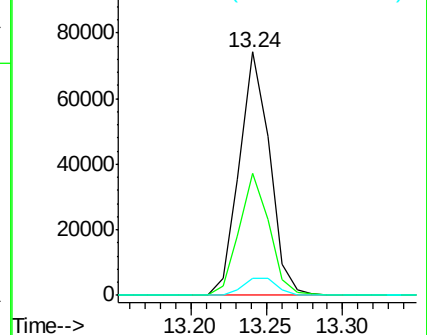
254 7.2 5.4 8.2



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: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

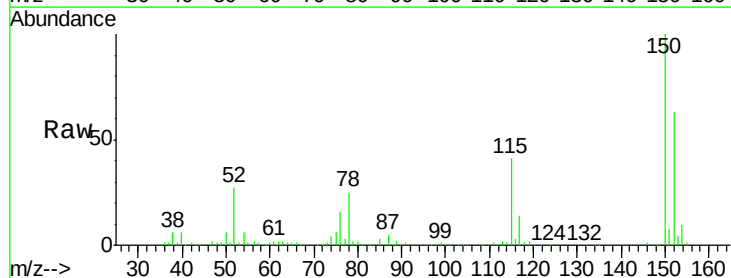
Tgt Ion:152 Resp: 472475

Ion Ratio Lower Upper

152 100

115 64.0 30.9 92.7

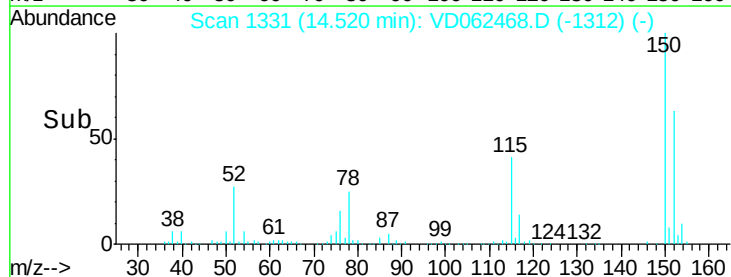
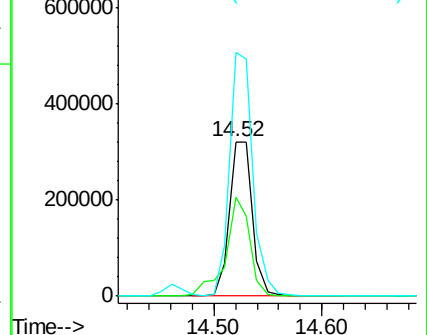
150 157.9 0.0 314.8

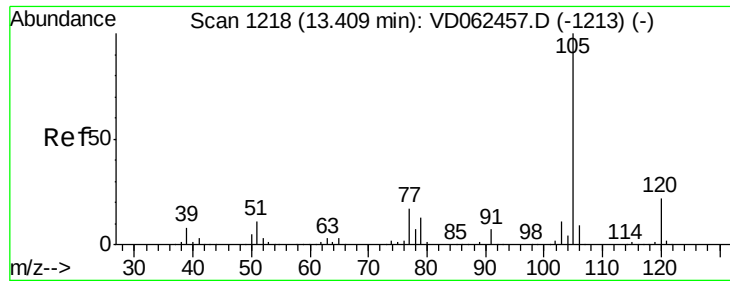


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.351 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

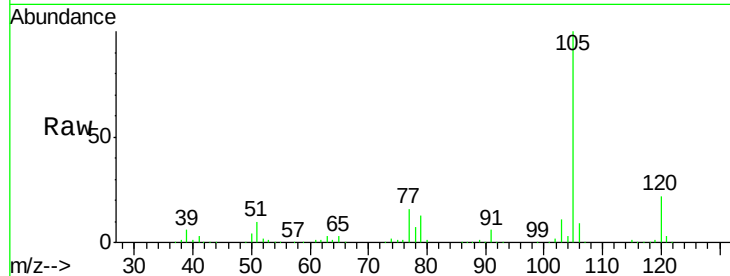
VD0520SBSD01

Tot Ion:105 Resp: 576303

Ion Ratio Lower Upper

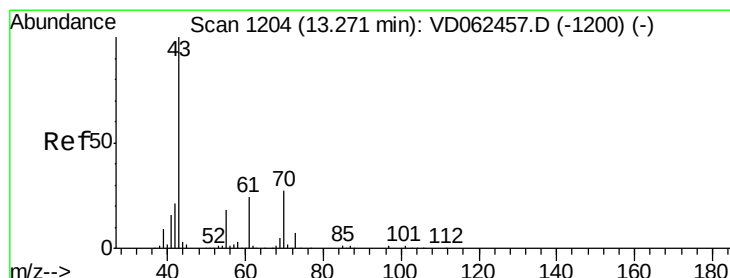
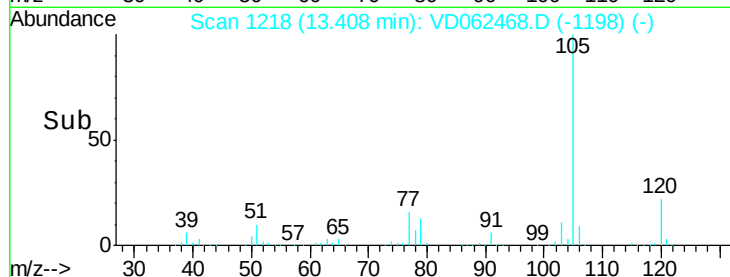
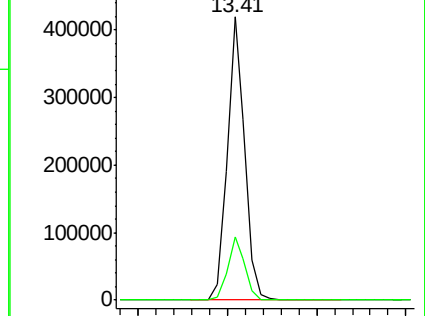
105 100

120 22.2 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.725 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Tgt Ion: 43 Resp: 145093

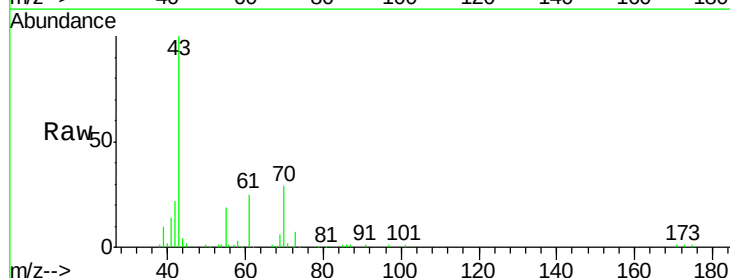
Ion Ratio Lower Upper

43 100

70 28.9 24.2 36.4

55 19.2 16.0 24.0

61 25.1 21.6 32.4

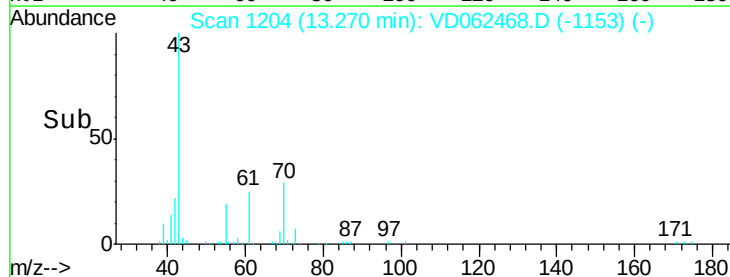
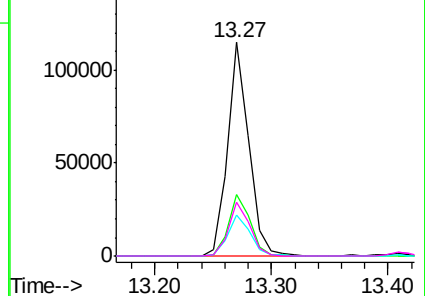


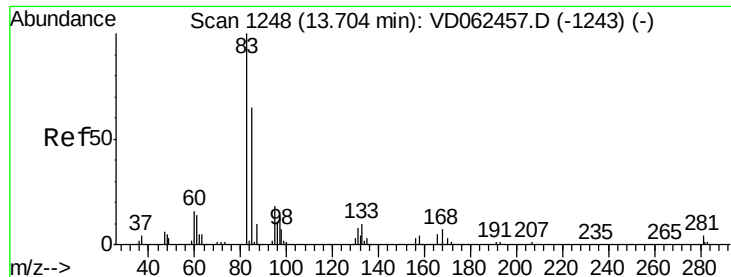
Abundance Ion 42.95 (42.65 to 43.65): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 19.568 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

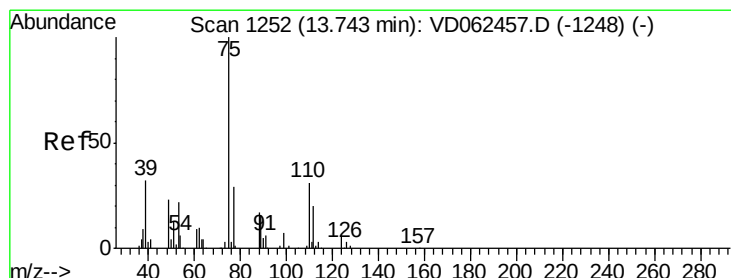
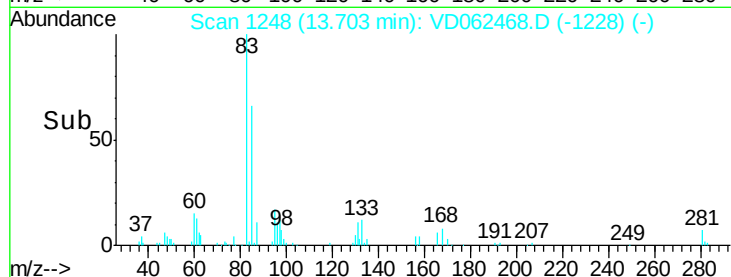
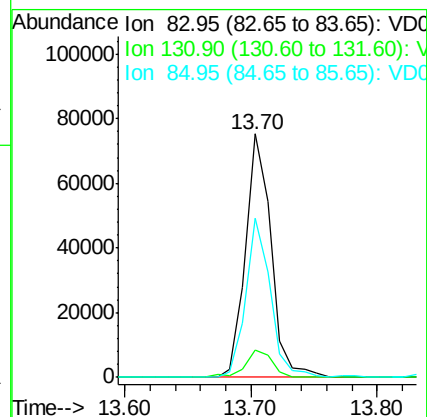
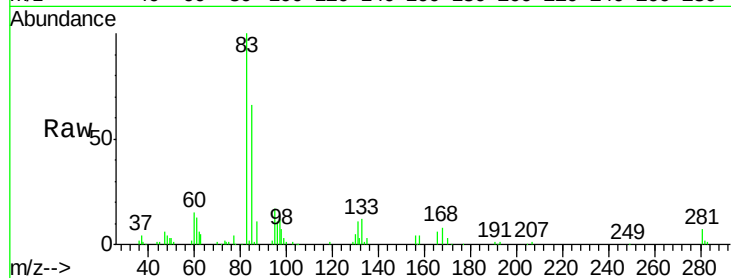
Tot Ion: 83 Resp: 105135

Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.0	14.9
85	65.5	32.6	97.7

83 100

131 11.4 5.0 14.9

85 65.5 32.6 97.7



#76

1,2,3-Trichloropropane

Concen: 19.873 ug/l

RT: 13.74 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VD062468.D

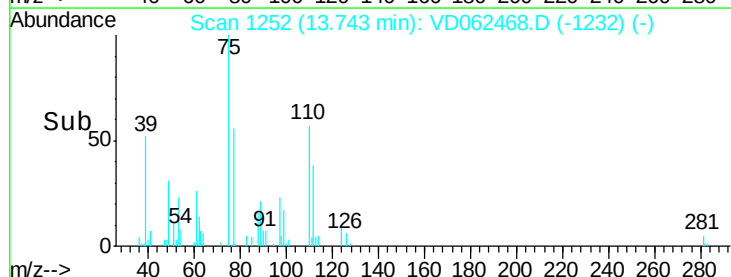
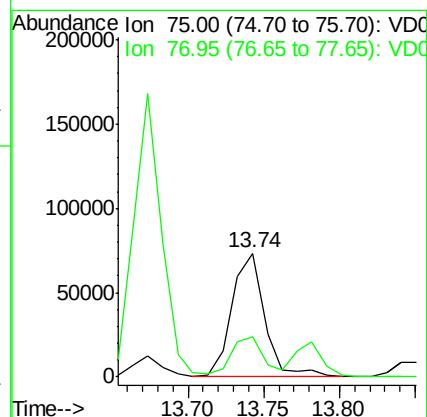
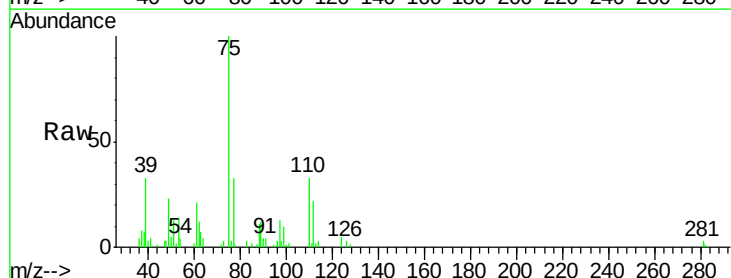
Acq: 20 May 2019 20:52

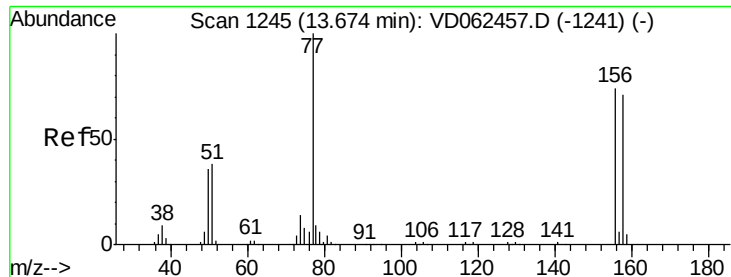
Tgt Ion: 75 Resp: 110595

Ion	Ratio	Lower	Upper
75	100		
77	32.5	16.4	49.4

75 100

77 32.5 16.4 49.4





#77

Bromobenzene

Concen: 21.283 ug/l

RT: 13.67 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

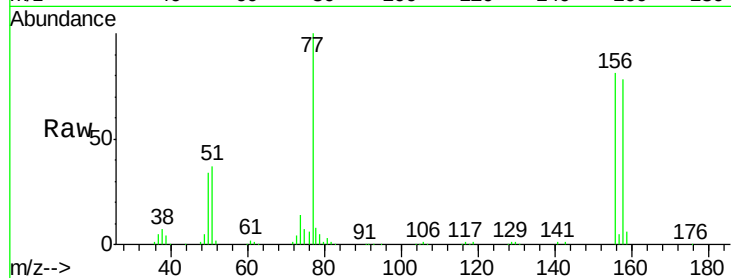
Tot Ion:156 Resp: 179811

Ion Ratio Lower Upper

156 100

77 122.9 53.1 159.4

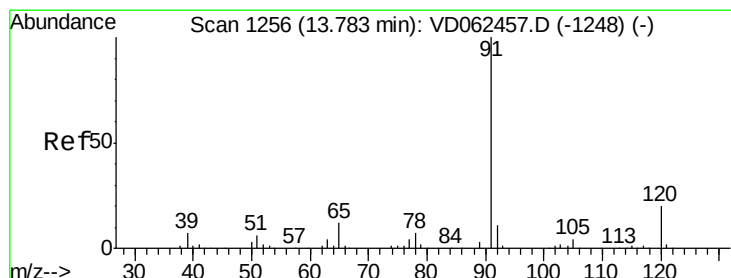
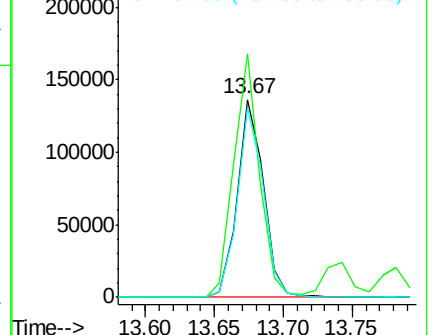
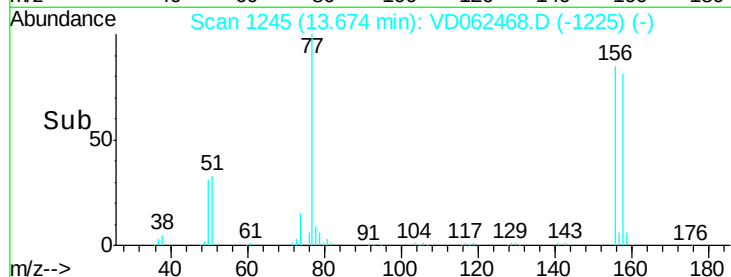
158 95.6 49.4 148.0



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: 19.302 ug/l

RT: 13.78 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VD062468.D

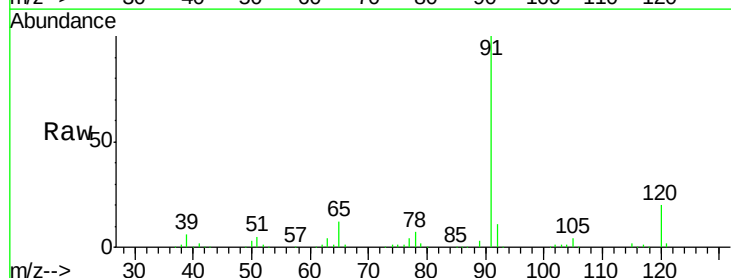
Acq: 20 May 2019 20:52

Tgt Ion: 91 Resp: 665871

Ion Ratio Lower Upper

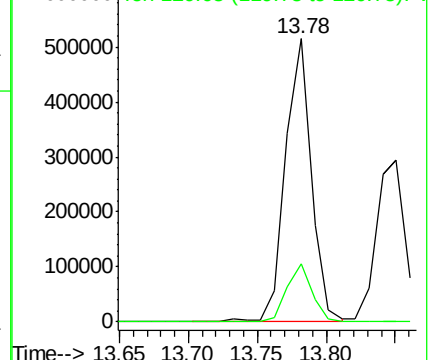
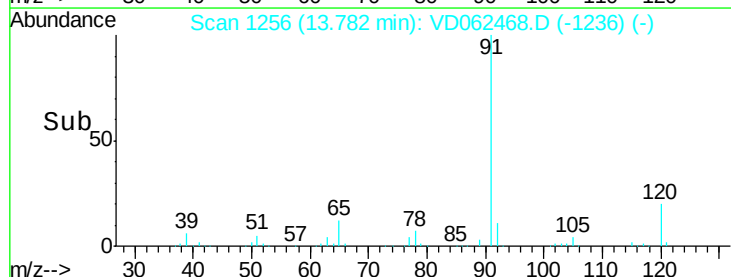
91 100

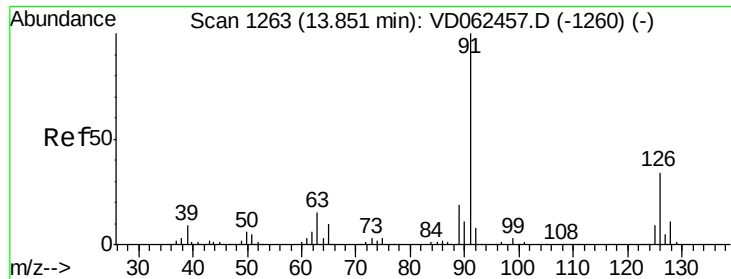
120 20.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 20.298 ug/l

RT: 13.85 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

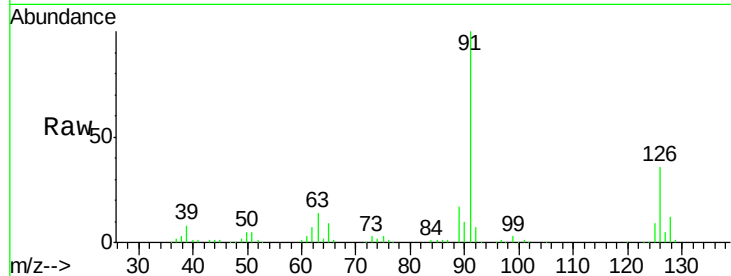
VD0520SBSD01

Tot Ion: 91 Resp: 424942

Ion Ratio Lower Upper

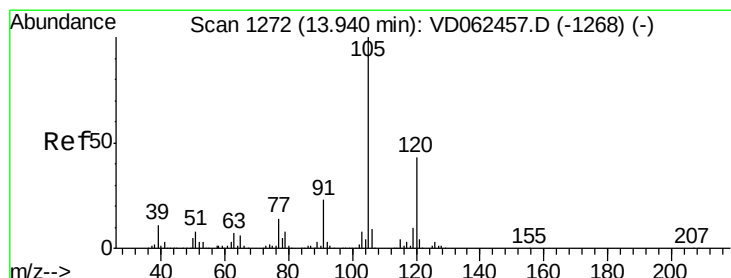
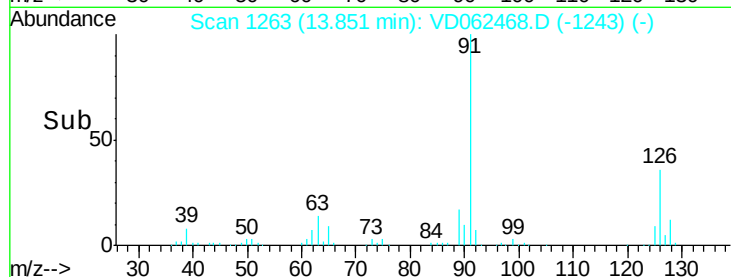
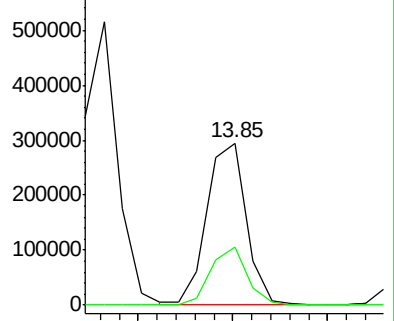
91 100

126 36.1 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): VD062457.D (-1260) (-)

Ion 125.95 (125.65 to 126.65): VD062457.D (-1260) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.466 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD062468.D

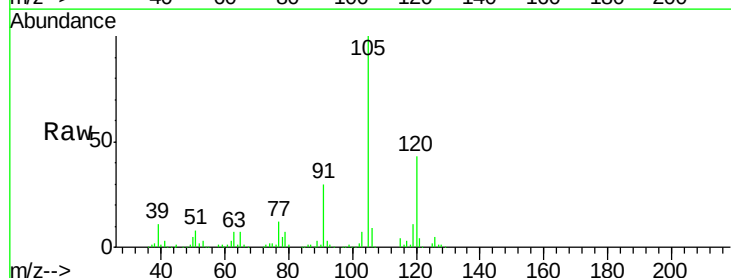
Acq: 20 May 2019 20:52

Tgt Ion:105 Resp: 527752

Ion Ratio Lower Upper

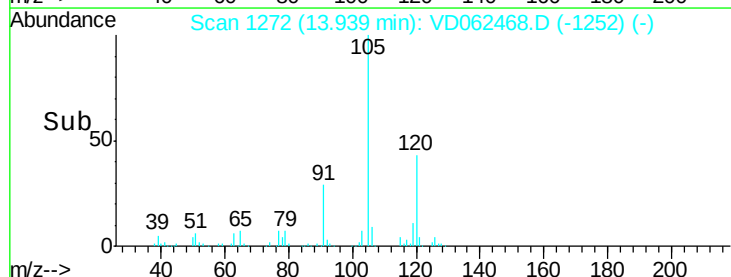
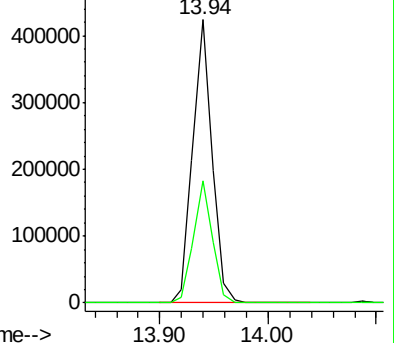
105 100

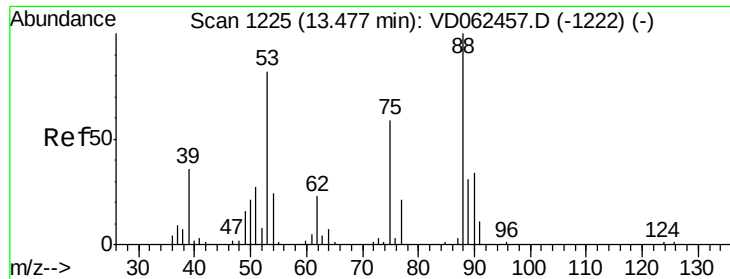
120 43.1 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD062457.D (-1268) (-)

Ion 120.05 (119.75 to 120.75): VD062457.D (-1268) (-)

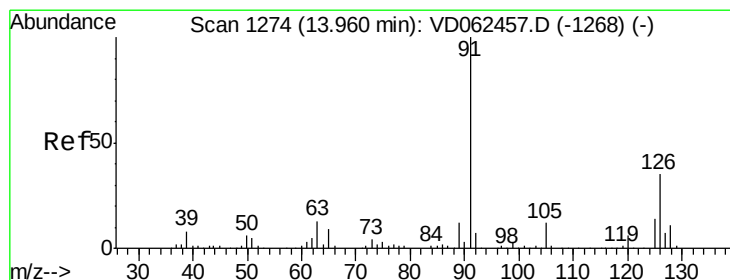
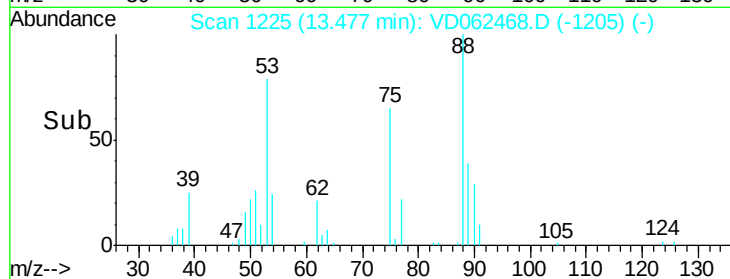
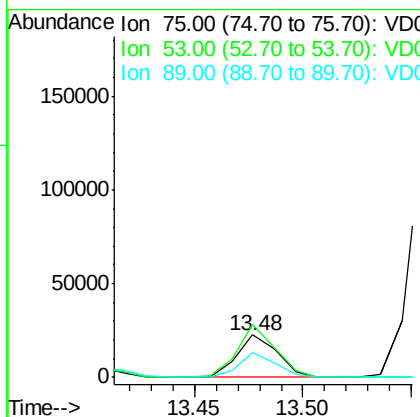
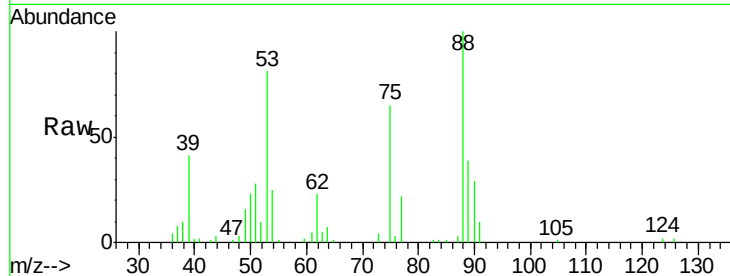




#81
trans-1,4-Dichloro-2-butene
Concen: 18.696 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

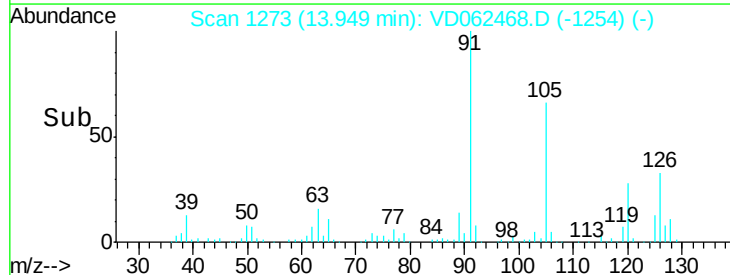
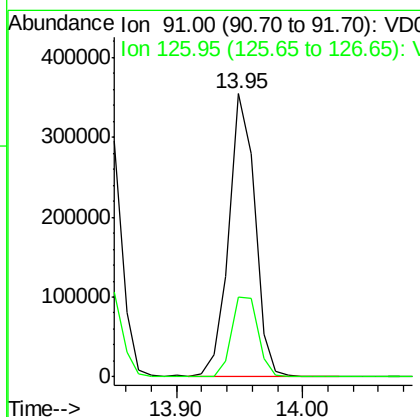
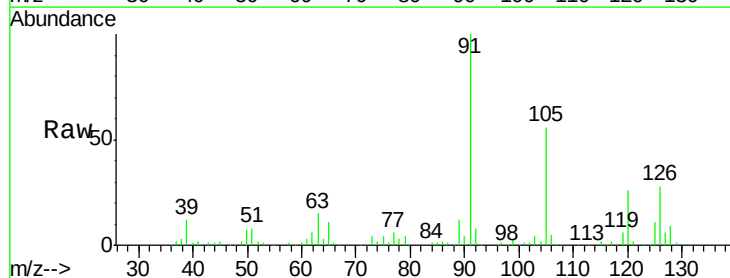
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

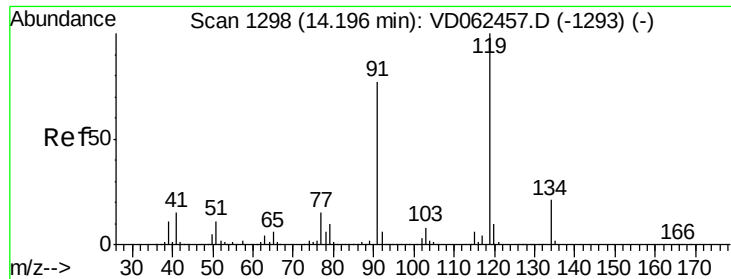
Tot Ion: 75 Resp: 29344
Ion Ratio Lower Upper
75 100
53 124.6 65.8 98.8#
89 59.3 35.0 52.6#



#82
4-Chlorotoluene
Concen: 20.945 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 91 Resp: 504977
Ion Ratio Lower Upper
91 100
126 28.0 19.1 57.5

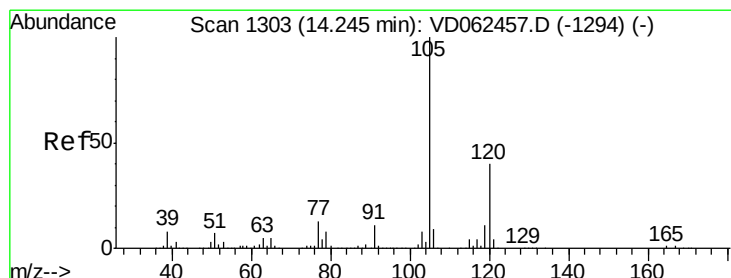
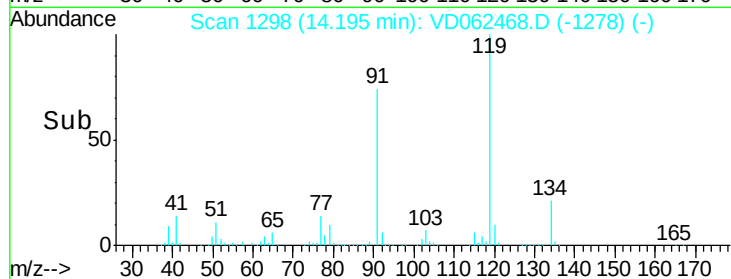
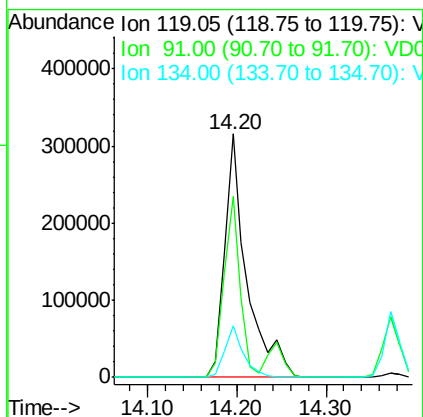
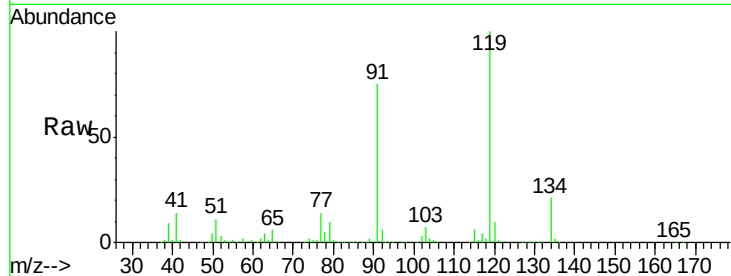




#83
 tert-Butylbenzene
 Concen: 19.247 ug/l
 RT: 14.20 min Scan# 1298
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

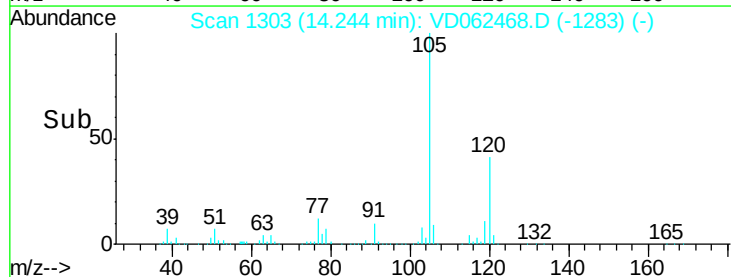
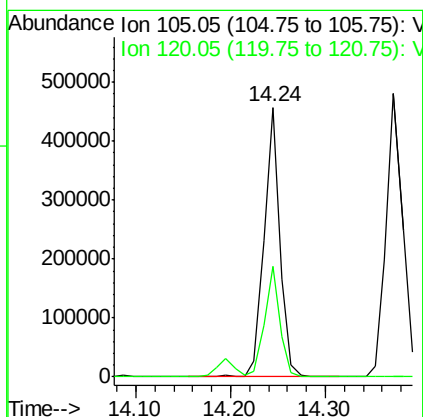
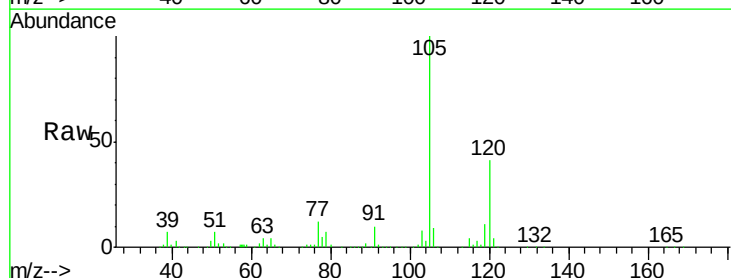
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

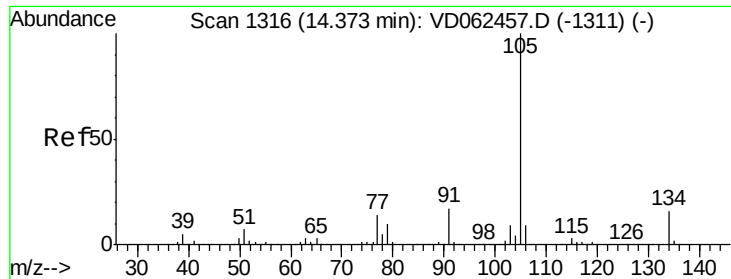
Tot Ion:119 Resp: 550543
 Ion Ratio Lower Upper
 119 100
 91 74.5 34.2 102.6
 134 21.5 12.0 36.0



#84
 1,2,4-Trimethylbenzene
 Concen: 20.388 ug/l
 RT: 14.24 min Scan# 1303
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion:105 Resp: 538700
 Ion Ratio Lower Upper
 105 100
 120 41.1 23.1 69.2





#85

sec-Butylbenzene

Concen: 19.807 ug/l

RT: 14.37 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleID :

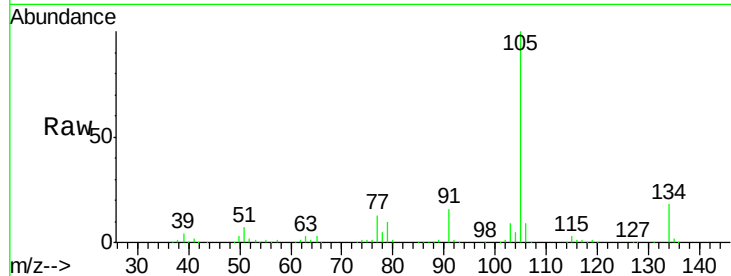
VD0520SBS01

Tot Ion:105 Resp: 590757

Ion Ratio Lower Upper

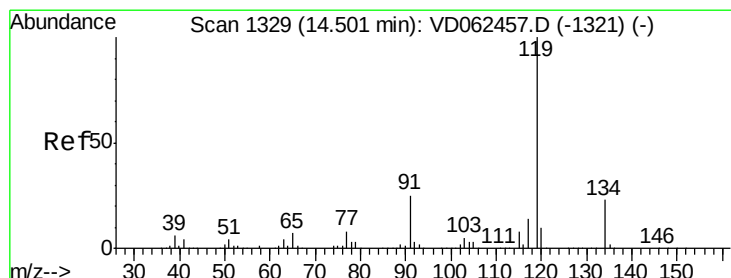
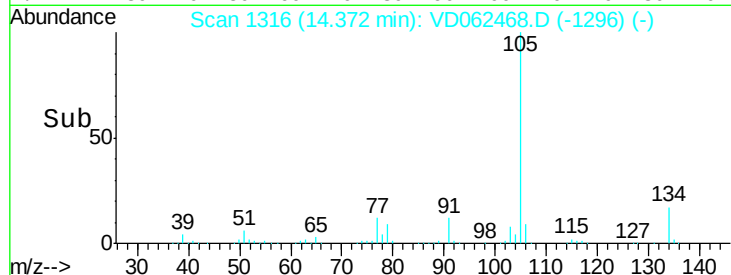
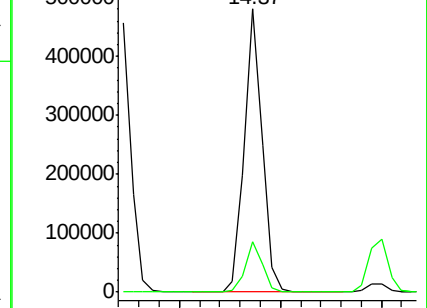
105 100

134 17.7 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 19.905 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

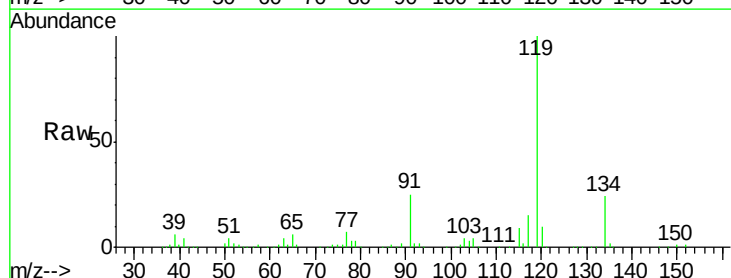
Tgt Ion:119 Resp: 537992

Ion Ratio Lower Upper

119 100

134 23.6 12.8 38.3

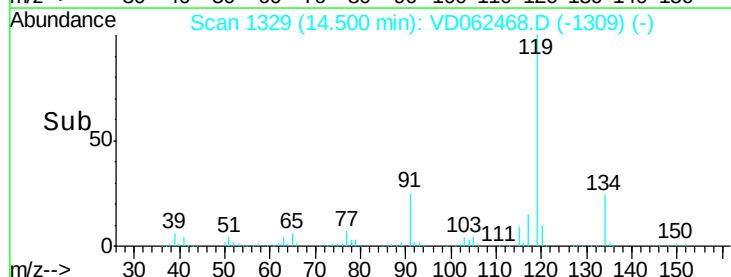
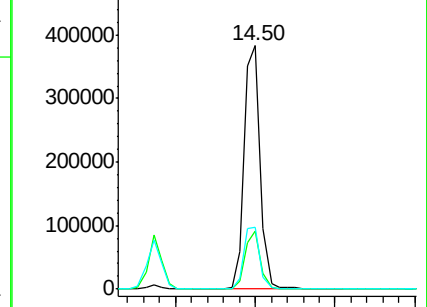
91 25.2 10.7 32.1

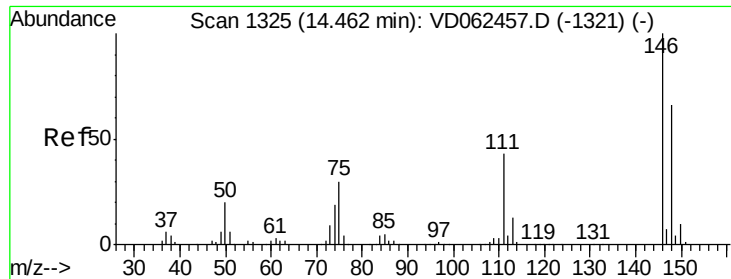


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

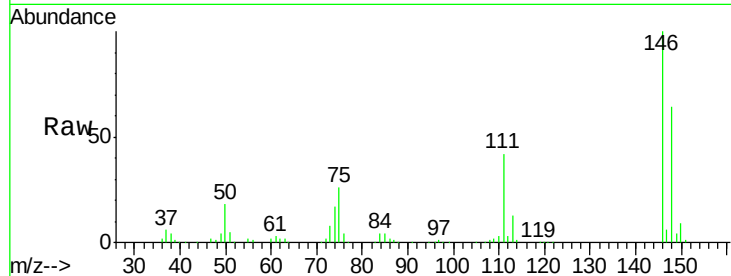




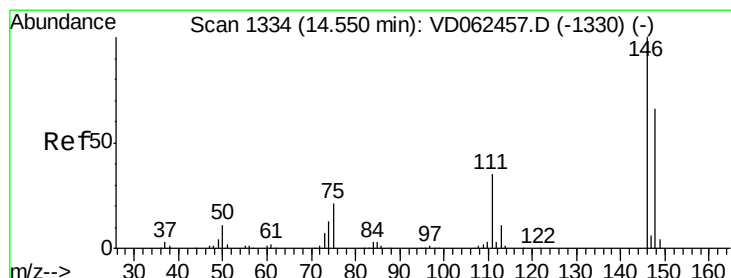
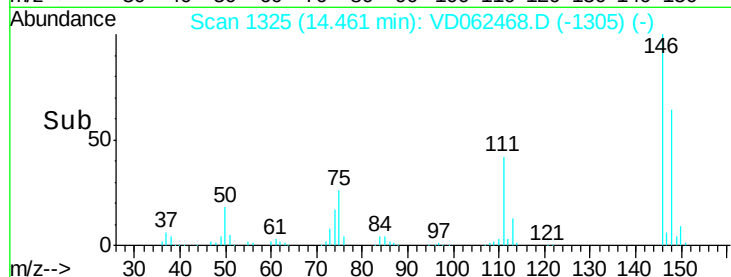
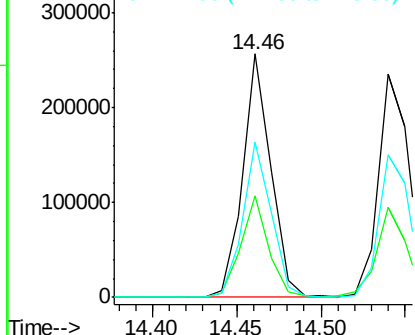
#87
 1,3-Dichlorobenzene
 Concen: 19.950 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

Tot Ion:146 Resp: 297640
 Ion Ratio Lower Upper
 146 100
 111 41.7 20.0 60.0
 148 63.7 31.8 95.4

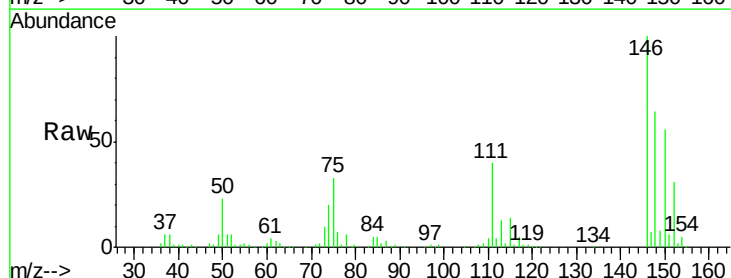


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

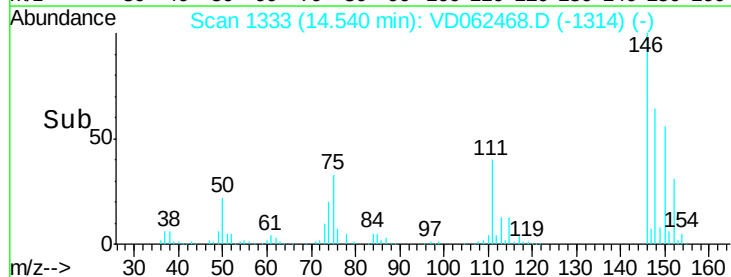
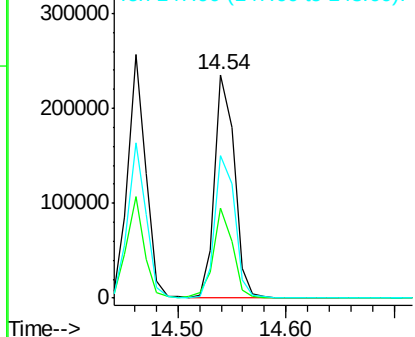


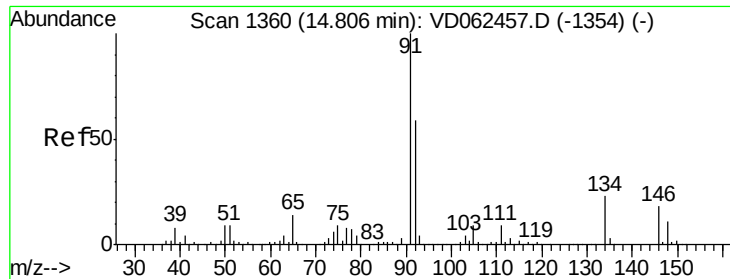
#88
 1,4-Dichlorobenzene
 Concen: 20.850 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion:146 Resp: 300174
 Ion Ratio Lower Upper
 146 100
 111 40.2 20.2 60.5
 148 63.6 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

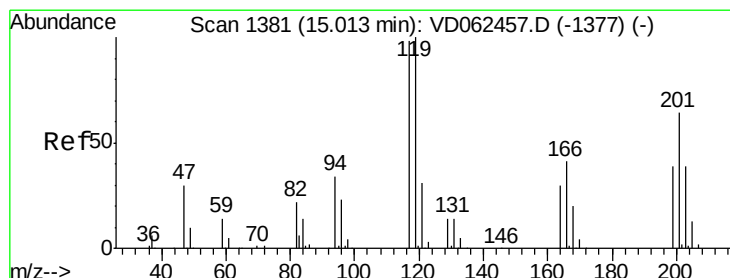
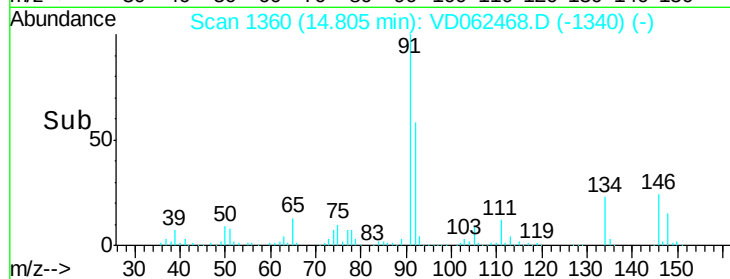
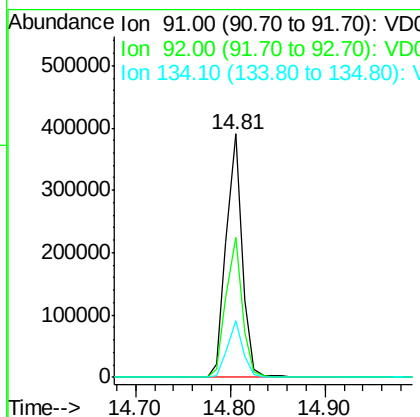
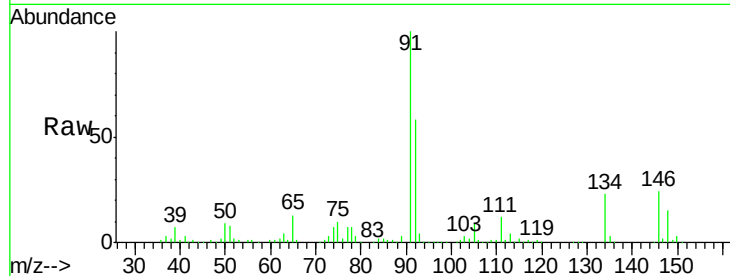




#89
n-Butylbenzene
Concen: 17.543 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

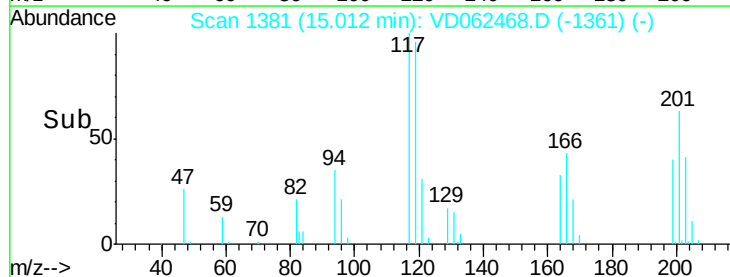
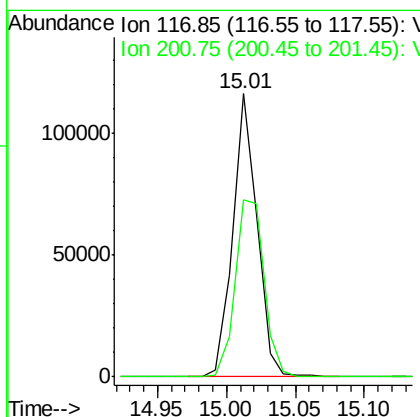
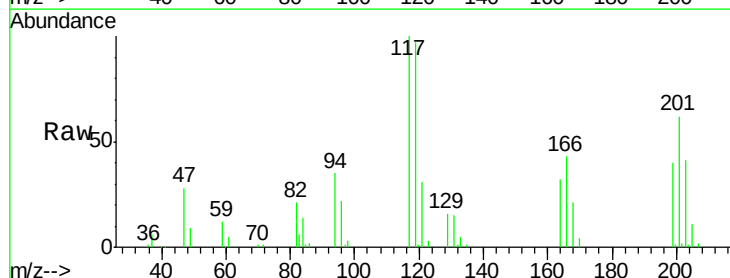
Instrument :
MSVOA_D
ClientSampleId :
VD0520SBSD01

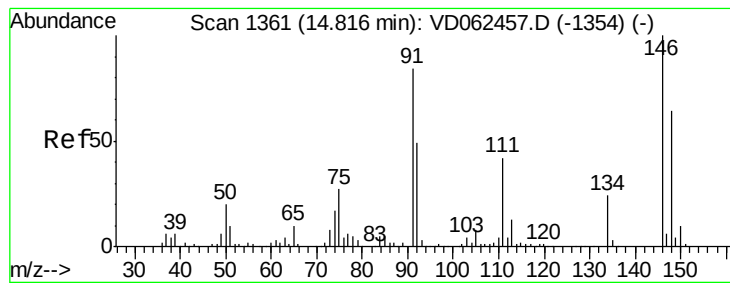
Tot Ion: 91 Resp: 457609
Ion Ratio Lower Upper
91 100
92 57.7 30.3 91.0
134 23.2 14.5 43.6



#90
Hexachloroethane
Concen: 19.021 ug/l
RT: 15.01 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VD062468.D
Acq: 20 May 2019 20:52

Tgt Ion: 117 Resp: 142084
Ion Ratio Lower Upper
117 100
201 62.4 30.2 90.6





#91

1,2-Dichlorobenzene

Concen: 17.689 ug/l

RT: 14.82 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

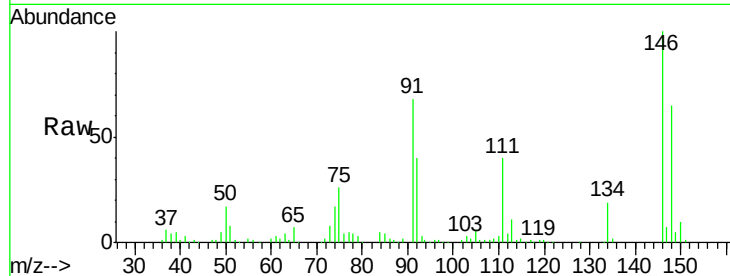
Tot Ion:146 Resp: 224411

Ion Ratio Lower Upper

146 100

111 39.9 20.0 59.9

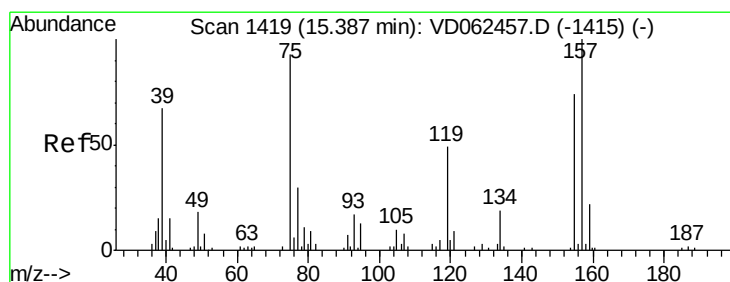
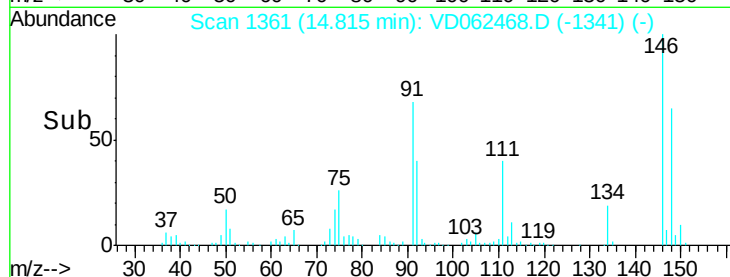
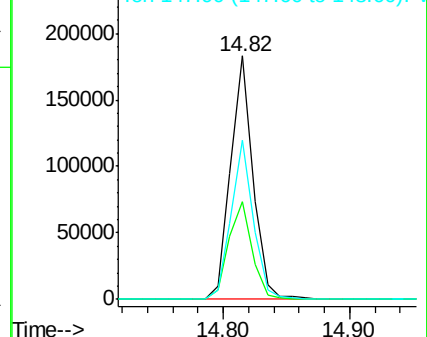
148 65.3 32.3 96.8



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: 16.710 ug/l

RT: 15.39 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

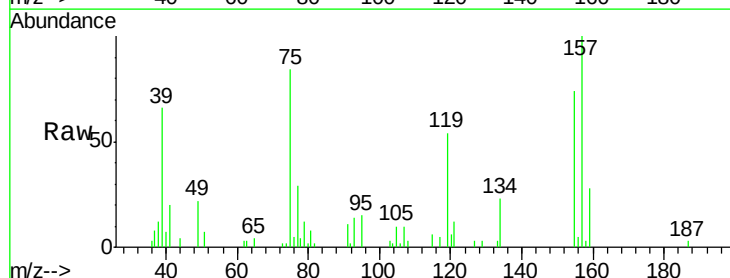
Tgt Ion: 75 Resp: 17042

Ion Ratio Lower Upper

75 100

155 87.8 55.3 165.8

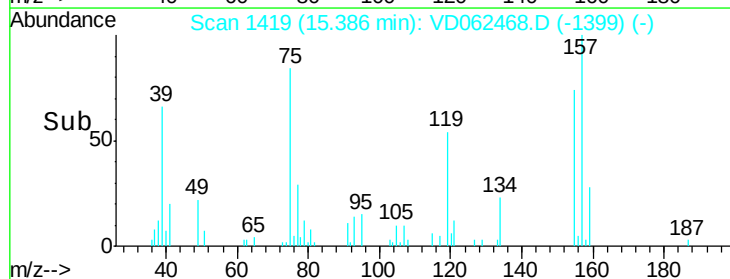
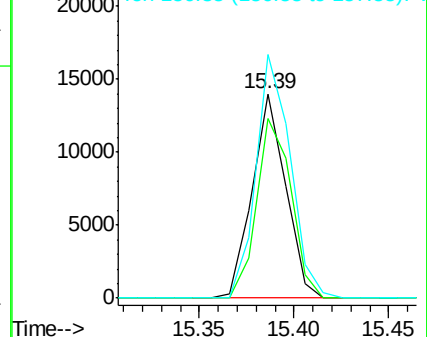
157 119.4 67.8 203.2

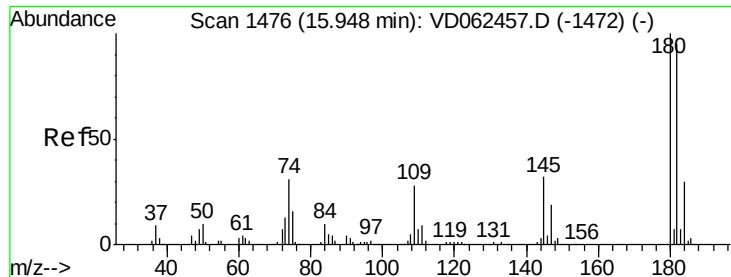


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

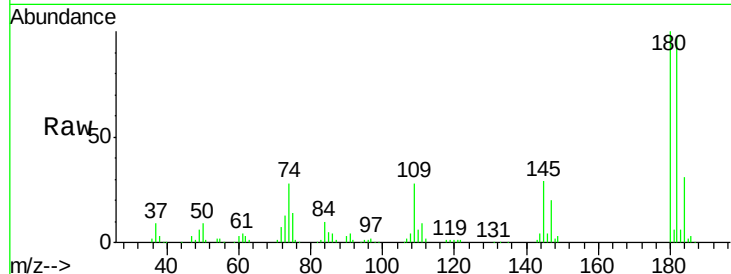




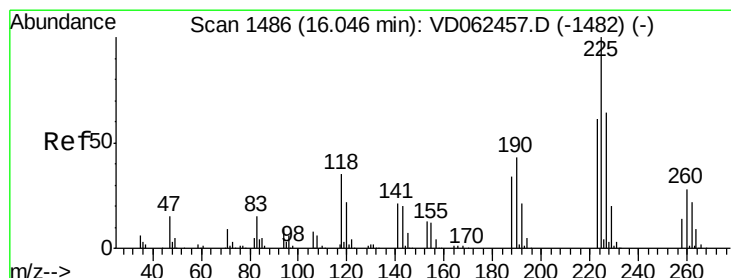
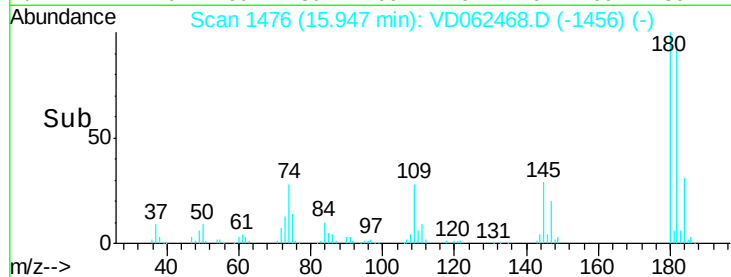
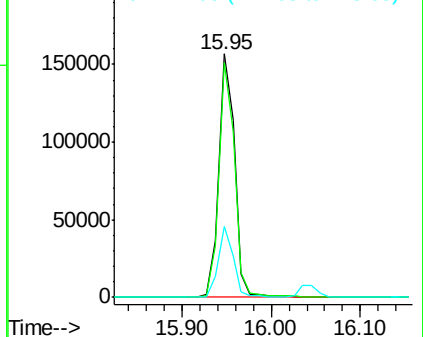
#93
 1,2,4-Trichlorobenzene
 Concen: 19.723 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0520SBSD01

Tot Ion:180 Resp: 197015
 Ion Ratio Lower Upper
 180 100
 182 96.5 49.3 147.8
 145 29.3 16.2 48.6

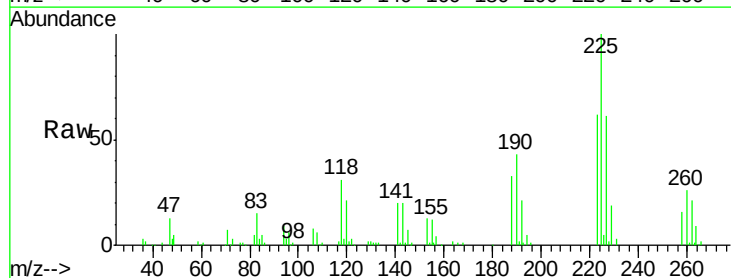


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

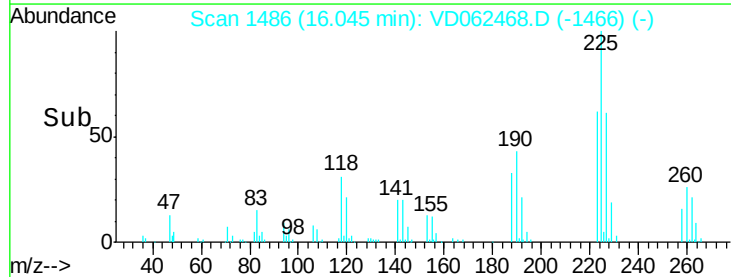
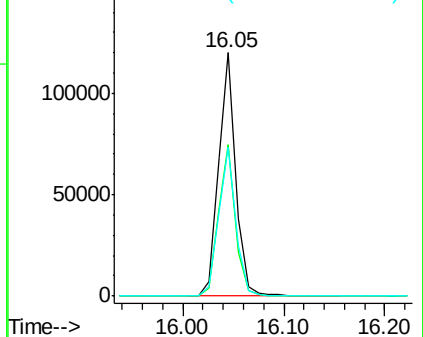


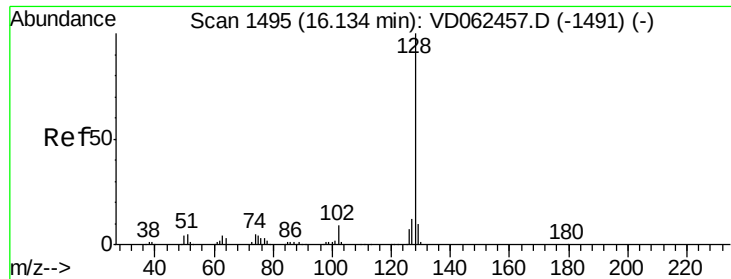
#94
 Hexachlorobutadiene
 Concen: 19.374 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD062468.D
 Acq: 20 May 2019 20:52

Tgt Ion:225 Resp: 142900
 Ion Ratio Lower Upper
 225 100
 223 62.4 30.6 92.0
 227 61.0 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: 20.588 ug/l

RT: 16.13 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

Instrument :

MSVOA_D

ClientSampleId :

VD0520SBSD01

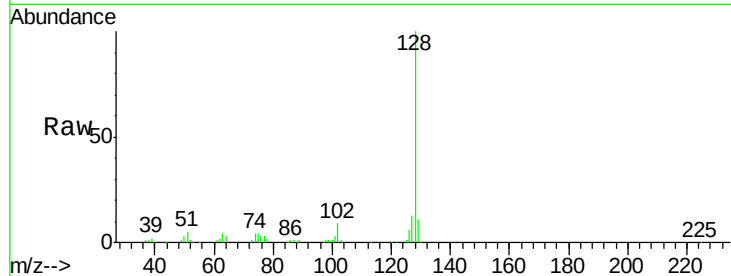
Tot Ion:128 Resp: 281010

Ion Ratio Lower Upper

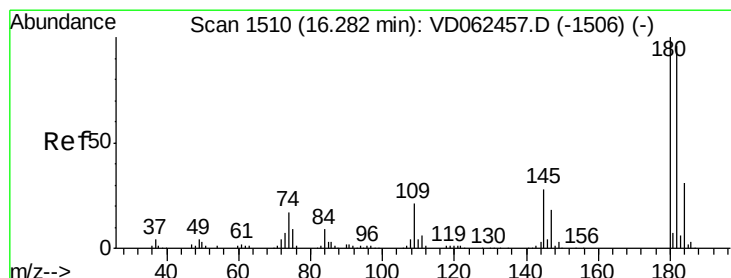
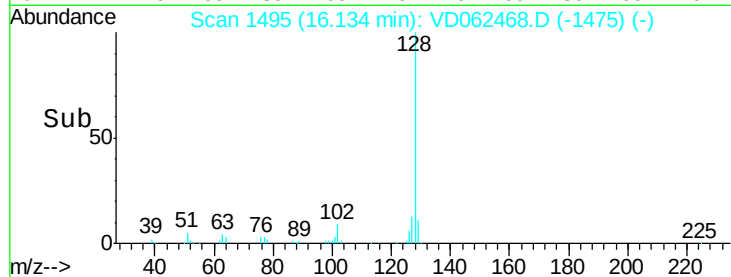
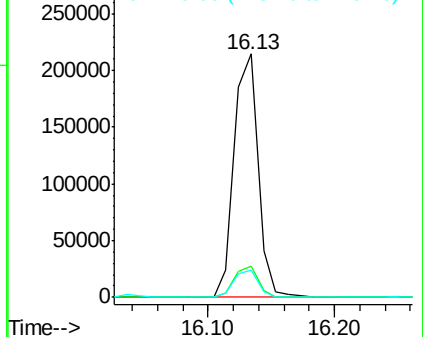
128 100

127 12.7 9.8 14.8

129 11.1 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: 19.270 ug/l

RT: 16.27 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VD062468.D

Acq: 20 May 2019 20:52

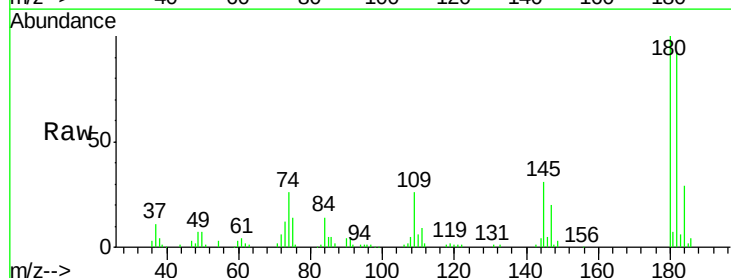
Tgt Ion:180 Resp: 157799

Ion Ratio Lower Upper

180 100

182 92.7 47.0 141.0

145 30.8 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

