

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062320\
 Data File : VD065860.D
 Acq On : 23 Jun 2020 15:15
 Operator : VA/SY
 Sample : L3082-13
 Misc : 5.48G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-14

Quant Time: Jun 24 04:43:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 05 13:07:30 2020
 Response via : Initial Calibration

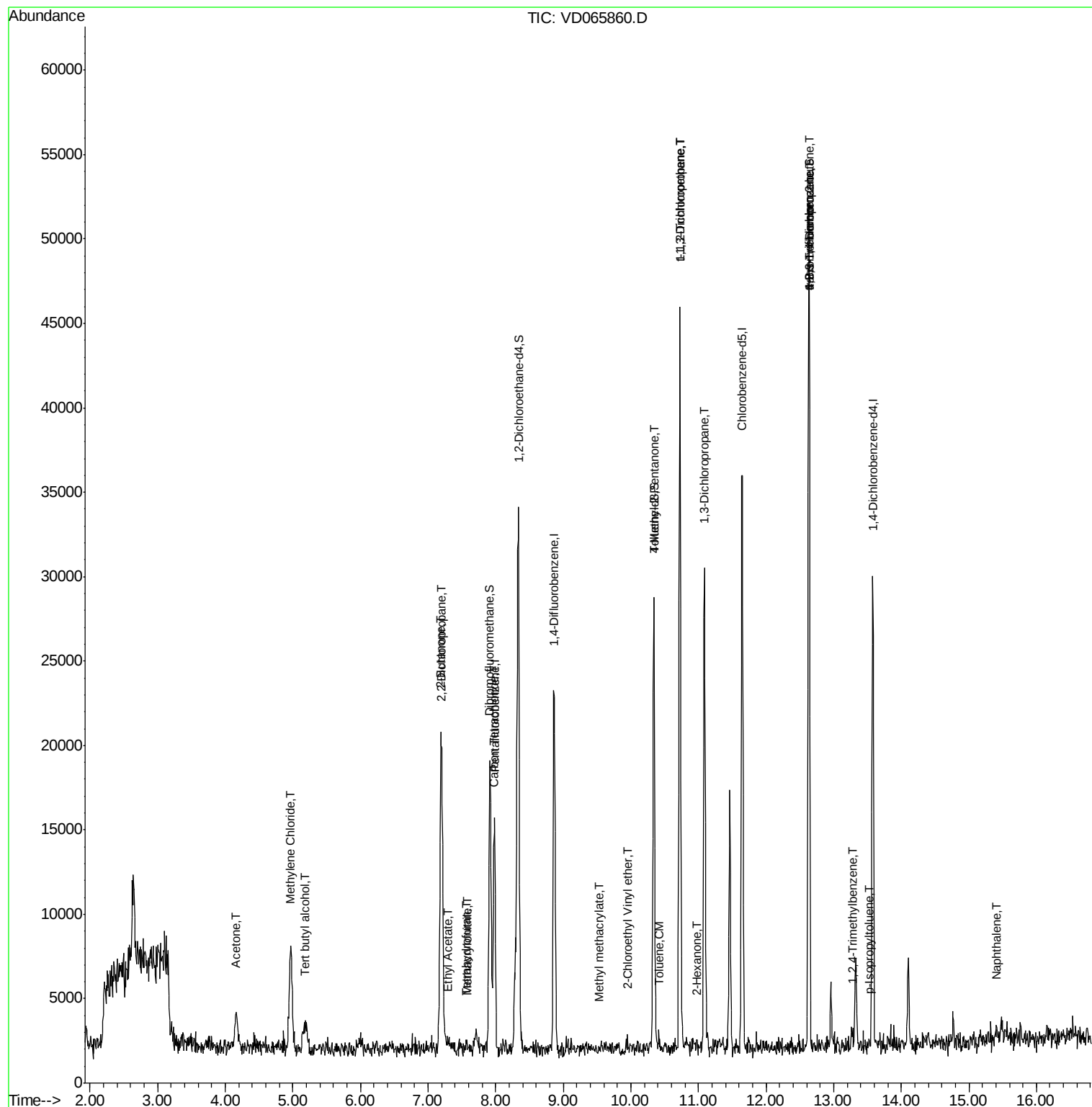
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	10212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	18008	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	17917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	6997	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	25280	250.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	501.04%	
35) Dibromofluoromethane	7.91	113	11492	101.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	202.06%	
50) Toluene-d8	10.34	98	18291	43.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.24%	
62) 4-Bromofluorobenzene	12.64	95	7881	54.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.58%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.21	50	400	Below Cal	#	43
11) Tert butyl alcohol	5.19	59	1181	201.964	ug/l #	74
16) Acetone	4.17	43	4378	230.003	ug/l	91
18) Methyl Acetate	4.75	43	127	Below Cal	#	52
20) Methylene Chloride	4.96	84	4656	45.674	ug/l #	79
25) 2-Butanone	7.19	43	754	28.683	ug/l #	52
26) 2,2-Dichloropropane	7.20	77	969	5.789	ug/l #	54
29) Tetrahydrofuran	7.56	42	473	28.469	ug/l #	34
37) Ethyl Acetate	7.29	43	109	1.604	ug/l #	70
38) Carbon Tetrachloride	7.97	117	943	5.194	ug/l #	12
41) Methacrylonitrile	7.57	41	91	2.249	ug/l #	1
48) Methyl methacrylate	9.53	41	92	1.407	ug/l #	15
51) 4-Methyl-2-Pentanone	10.35	43	179	2.704	ug/l	88
52) Toluene	10.41	92	310	1.012	ug/l	86
53) t-1,3-Dichloropropene	10.73	75	768	4.925	ug/l #	42
55) 1,1,2-Trichloroethane	10.72	97	761	8.862	ug/l #	15
57) 1,3-Dichloropropane	11.09	76	183	1.230	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.94	63	290	6.176	ug/l #	46
59) 2-Hexanone	10.98	43	223	4.996	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	4682	86.040	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	4682	185.900	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	531	1.359	ug/l	82
86) p-Isopropyltoluene	13.53	119	441	1.021	ug/l #	50
95) Naphthalene	15.41	128	413	1.904	ug/l #	66

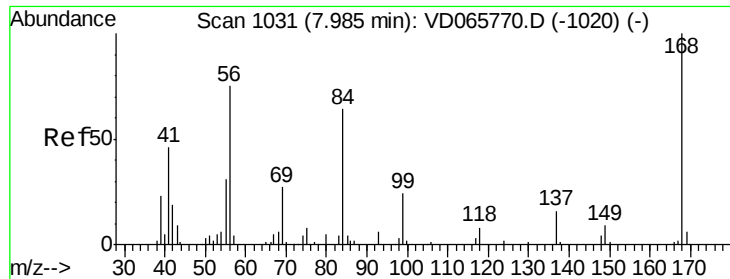
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

Instrument :

MSVOA_D

ClientSampled :

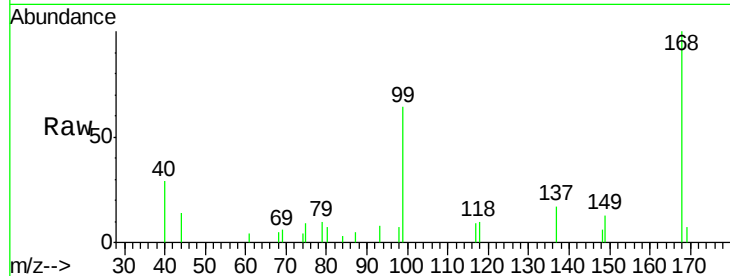
SB-14

Tot Ion:168 Resp: 10212

Ion Ratio Lower Upper

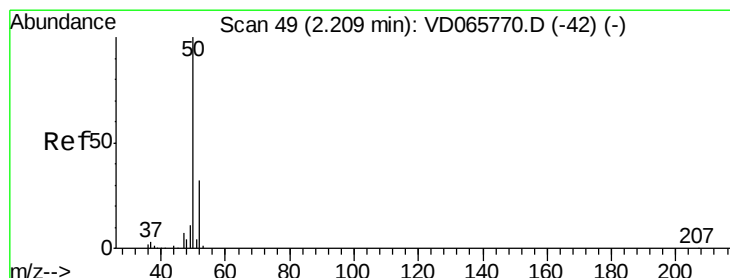
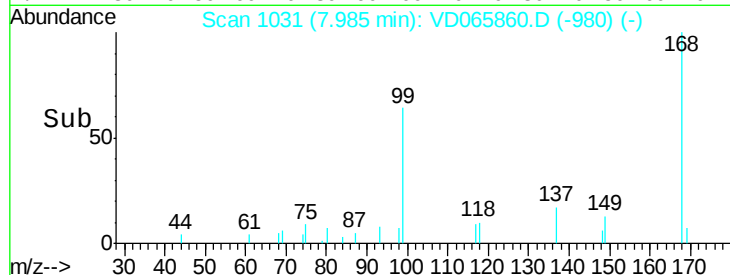
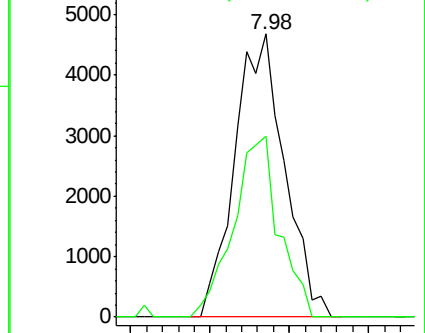
168 100

99 64.0 45.3 67.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065860.D

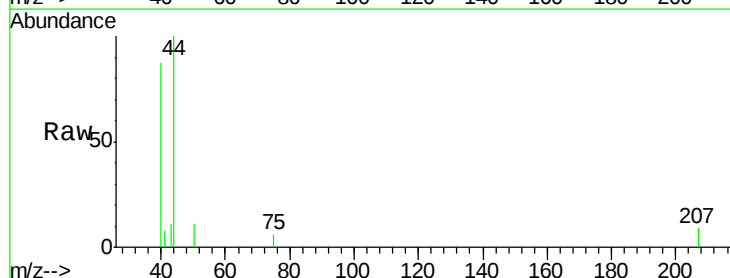
Acq: 23 Jun 2020 15:15

Tgt Ion: 50 Resp: 400

Ion Ratio Lower Upper

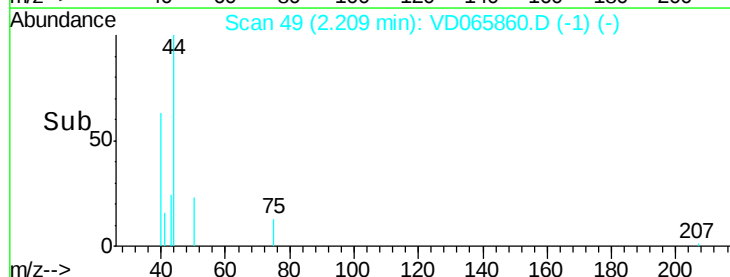
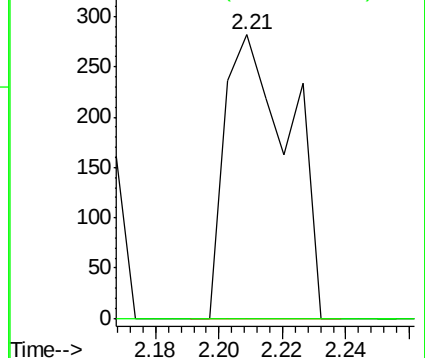
50 100

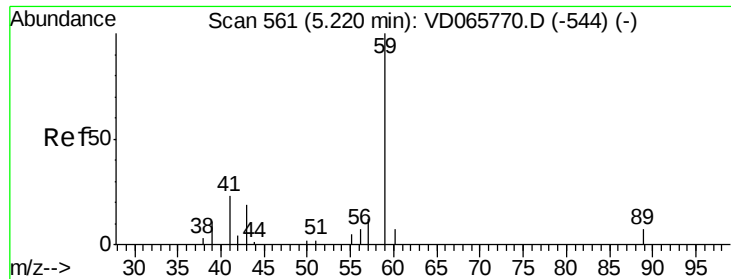
52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

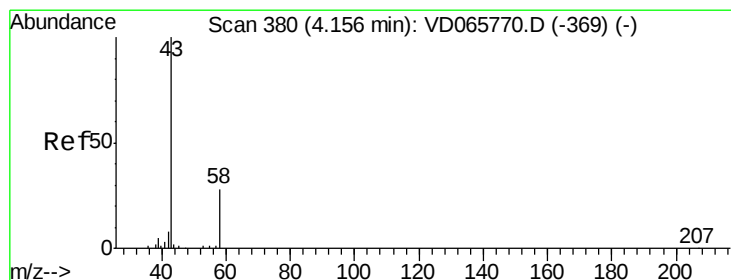
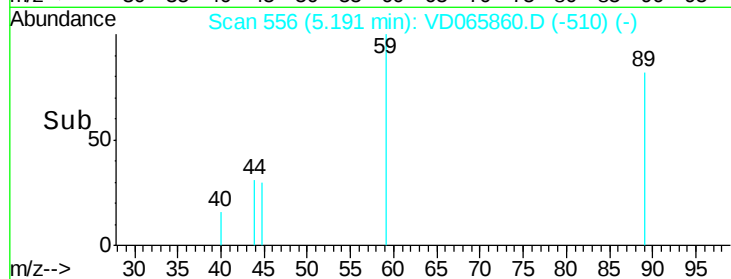
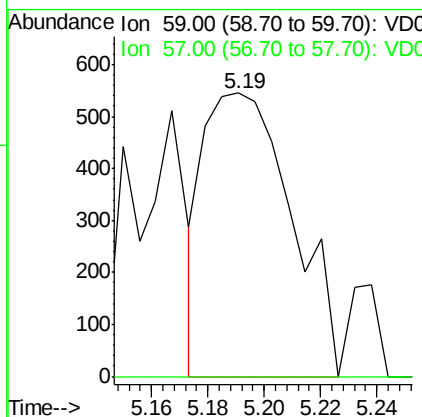
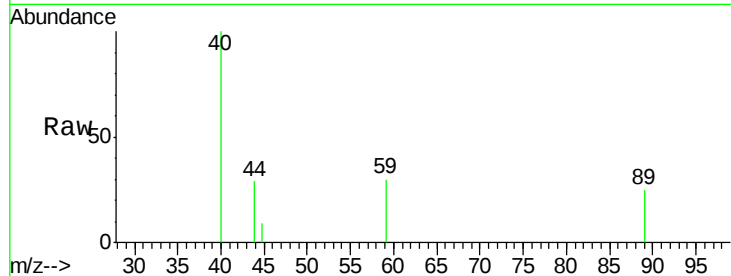




#11
Tert butyl alcohol
Concen: 201.964 ug/l
RT: 5.19 min Scan# 556
Delta R.T. -0.03 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

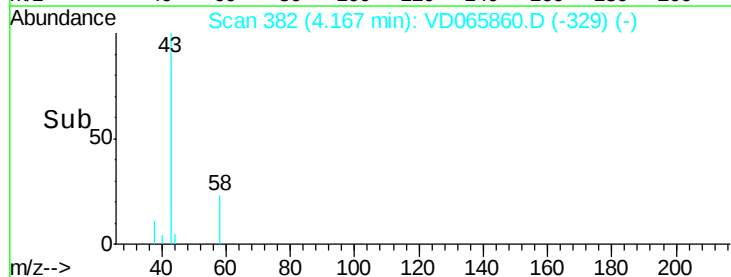
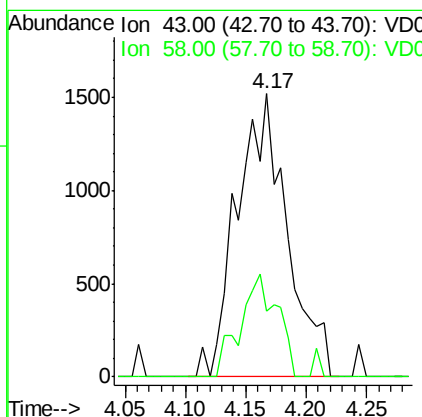
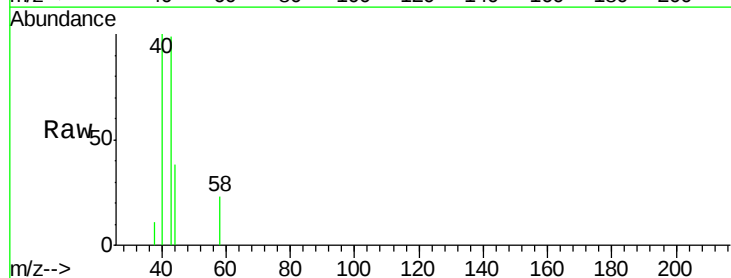
Instrument :
MSVOA_D
ClientSampled :
SB-14

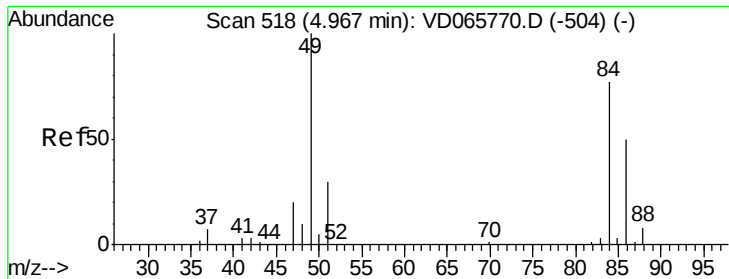
Tot Ion: 59 Resp: 1181
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#16
Acetone
Concen: 230.003 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.01 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion: 43 Resp: 4378
Ion Ratio Lower Upper
43 100
58 23.1 22.3 33.5

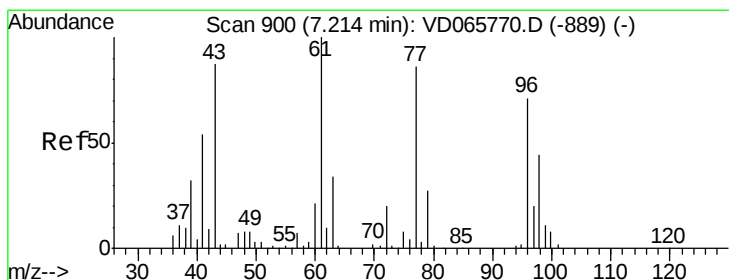
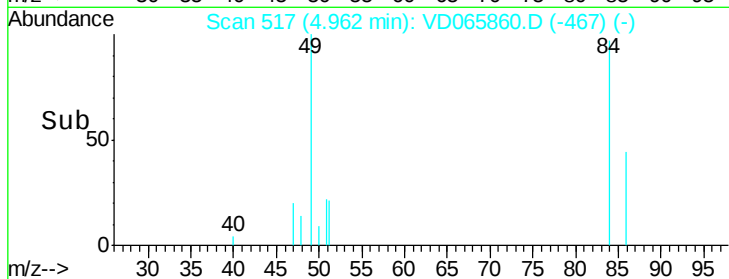
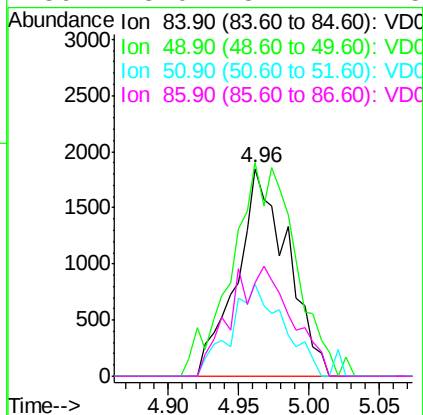
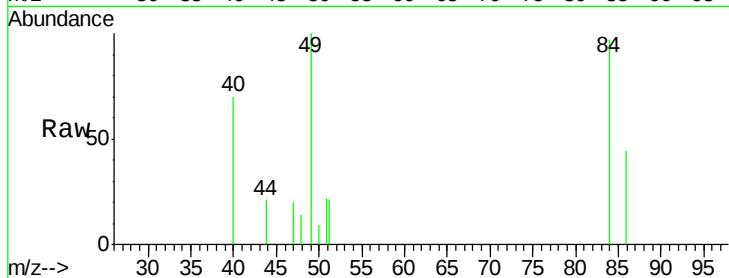




#20
Methvlene Chloride
Concen: 45.674 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

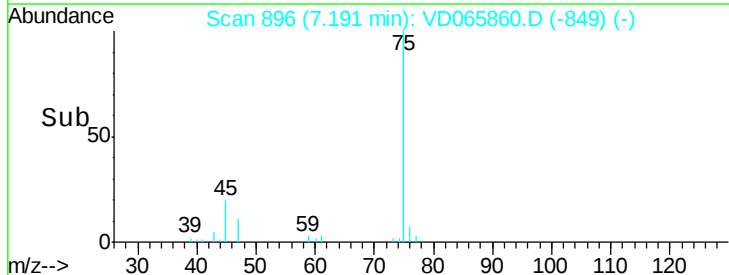
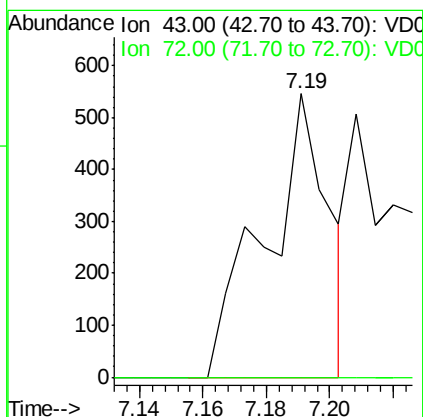
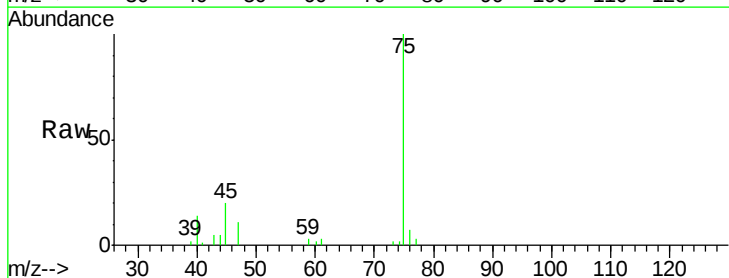
Instrument :
MSVOA_D
ClientSampleId :
SB-14

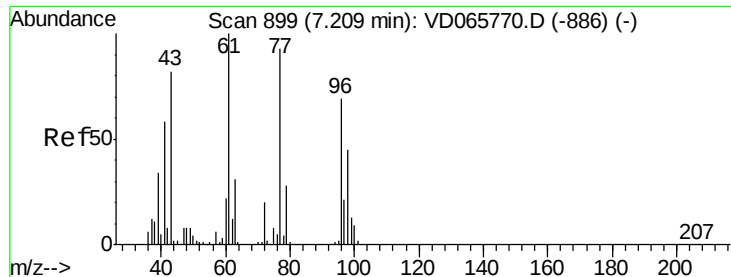
Tot Ion: 84 Resp: 4656
Ion Ratio Lower Upper
84 100
49 102.9 103.4 155.0#
51 44.5 31.4 47.2
86 45.0 51.7 77.5#



#25
2-Butanone
Concen: 28.683 ug/l
RT: 7.19 min Scan# 896
Delta R.T. -0.02 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion: 43 Resp: 754
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#26

2,2-Dichloropropane

Concen: 5.789 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

Instrument :

MSVOA_D

ClientSampled :

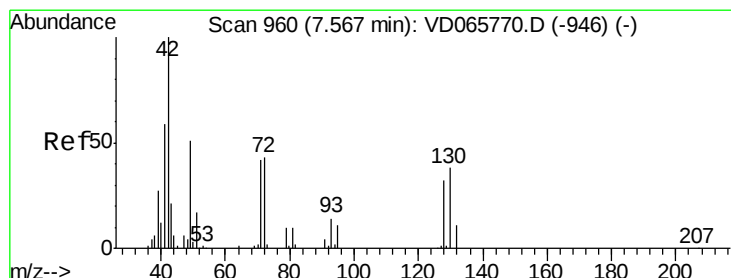
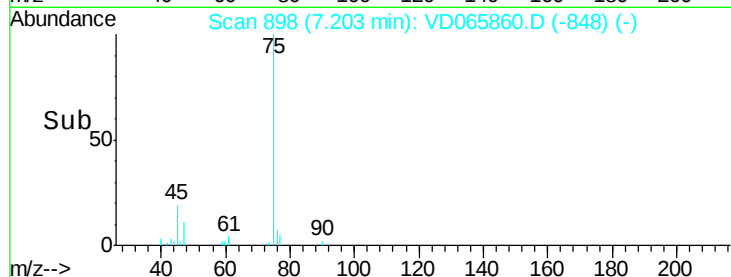
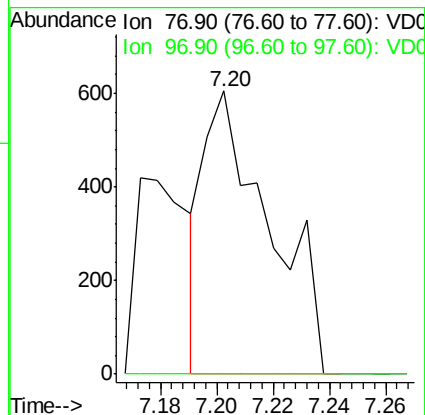
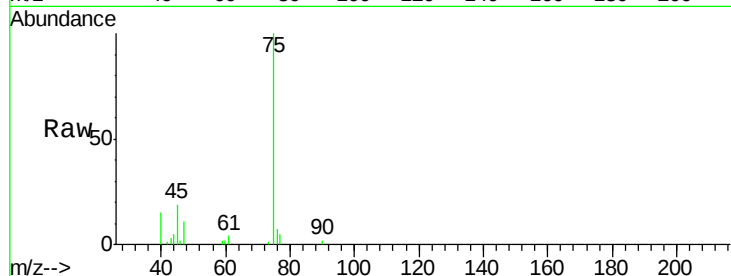
SB-14

Tot Ion: 77 Resp: 969

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.7#



#29

Tetrahydrofuran

Concen: 28.469 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.01 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

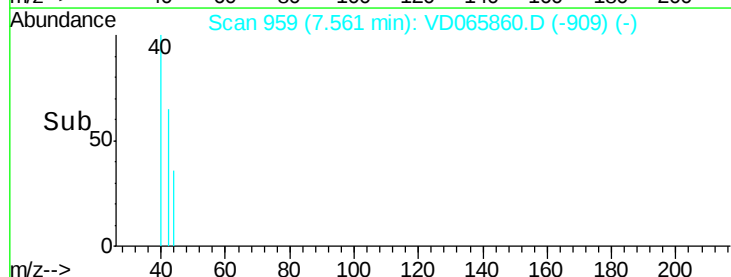
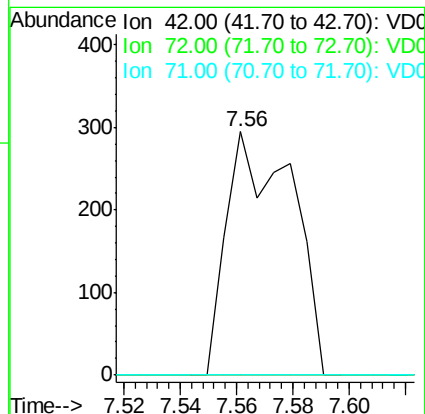
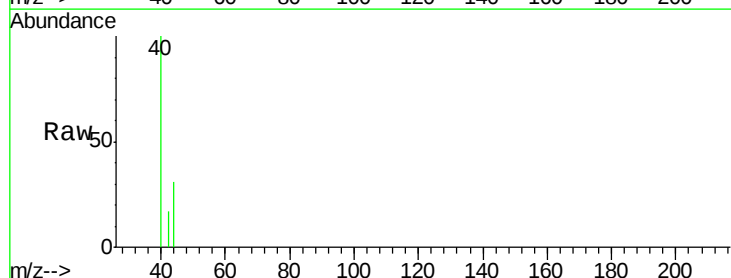
Tgt Ion: 42 Resp: 473

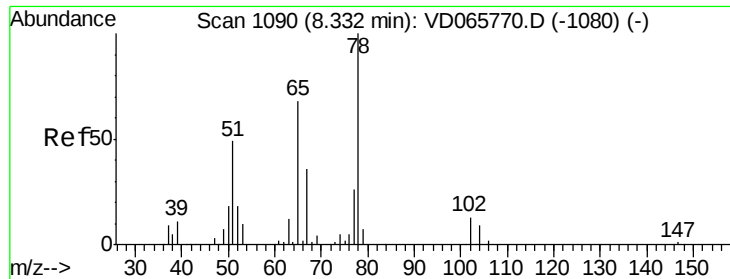
Ion Ratio Lower Upper

42 100

72 0.0 34.9 52.3#

71 0.0 31.2 46.8#





#33

1,2-Dichloroethane-d4

Concen: 250.525 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

Instrument :

MSVOA_D

ClientSampleId :

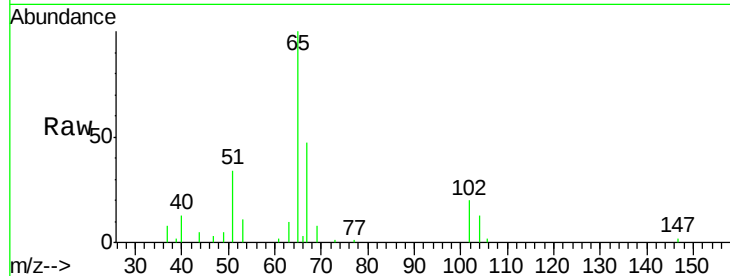
SB-14

Tot Ion: 65 Resp: 25280

Ion Ratio Lower Upper

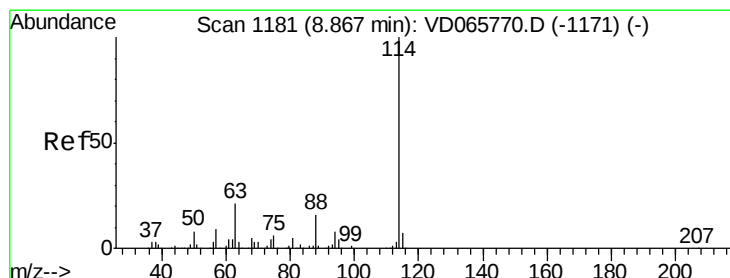
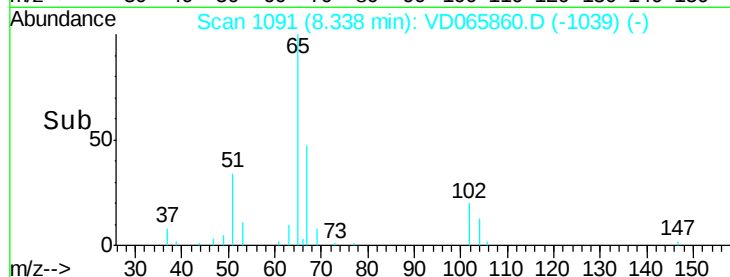
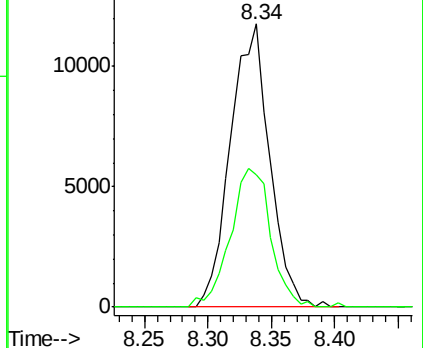
65 100

67 50.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

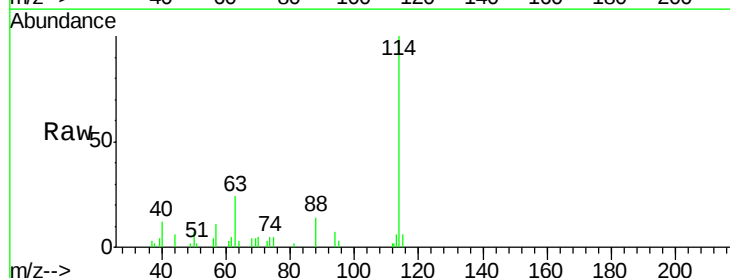
Tgt Ion: 114 Resp: 18008

Ion Ratio Lower Upper

114 100

63 23.8 0.0 41.8

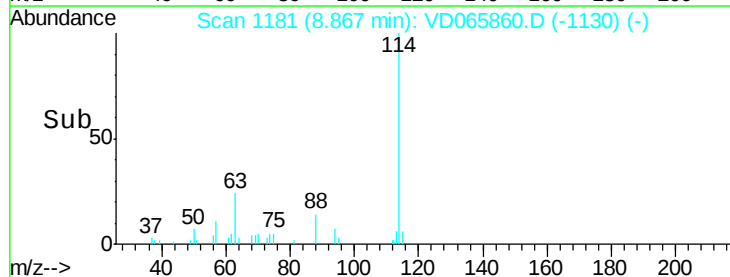
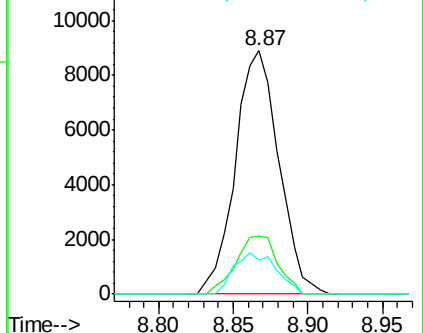
88 13.9 0.0 32.0

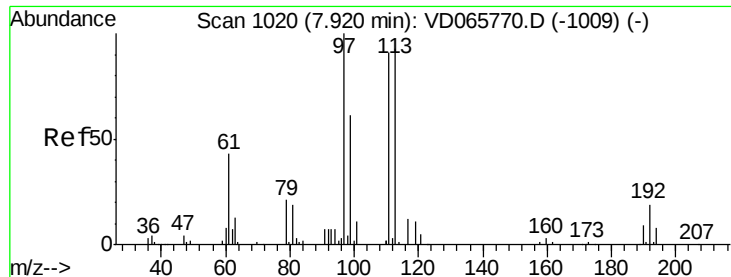


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

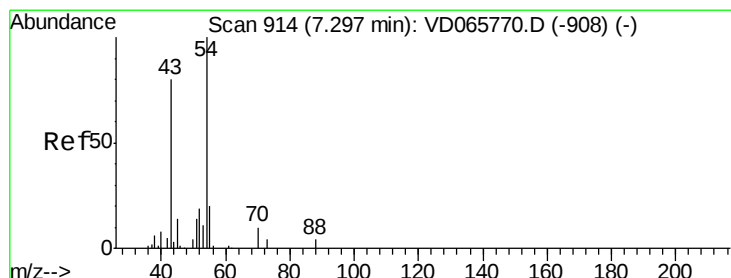
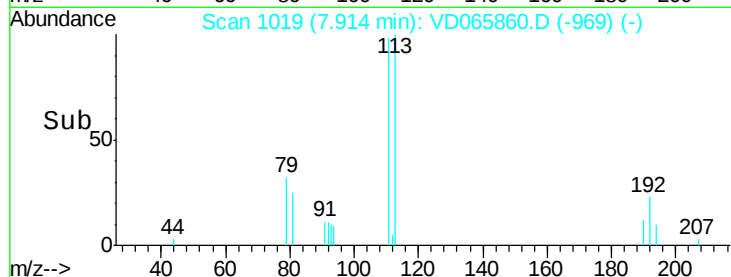
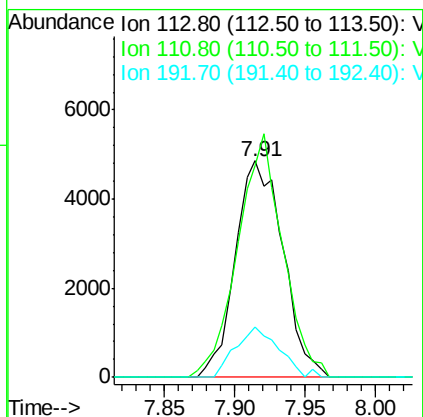
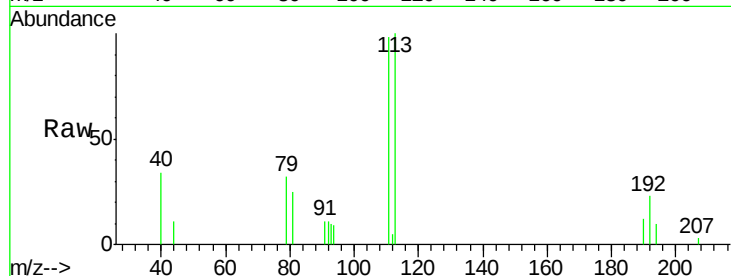




#35
 Dibromofluoromethane
 Concen: 101.029 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD065860.D
 Acq: 23 Jun 2020 15:15

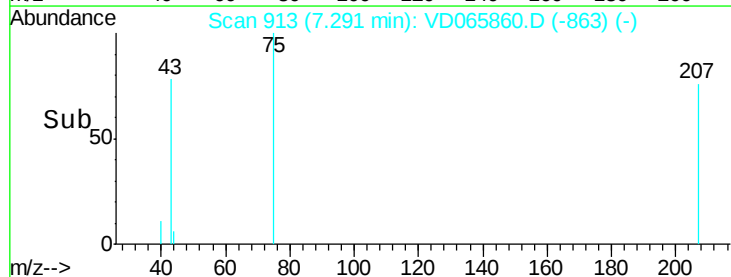
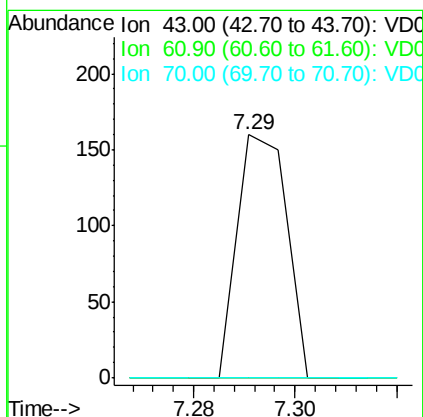
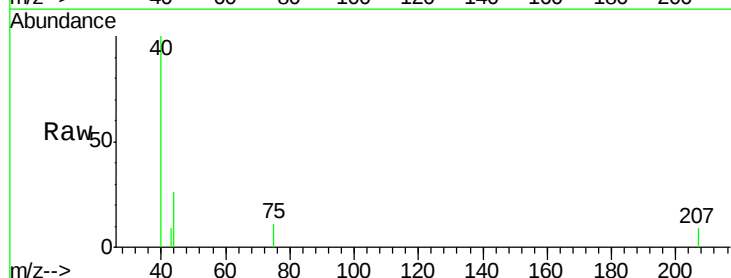
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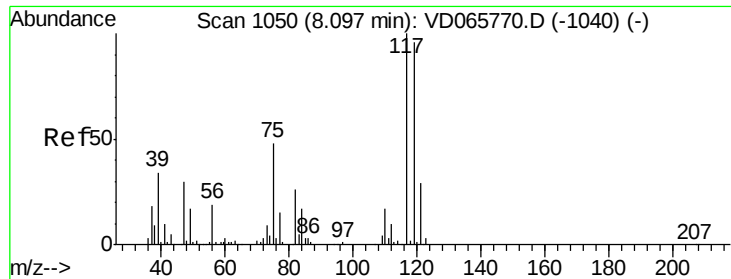
Tot Ion:113 Resp: 11492
 Ion Ratio Lower Upper
 113 100
 111 105.8 83.4 125.0
 192 21.2 15.7 23.5



#37
 Ethyl Acetate
 Concen: 1.604 ug/l
 RT: 7.29 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VD065860.D
 Acq: 23 Jun 2020 15:15

Tgt Ion: 43 Resp: 109
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.5 11.3#

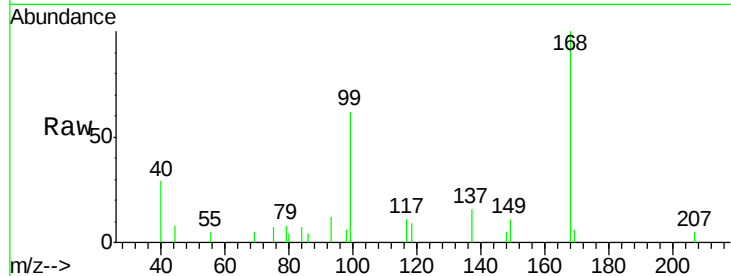




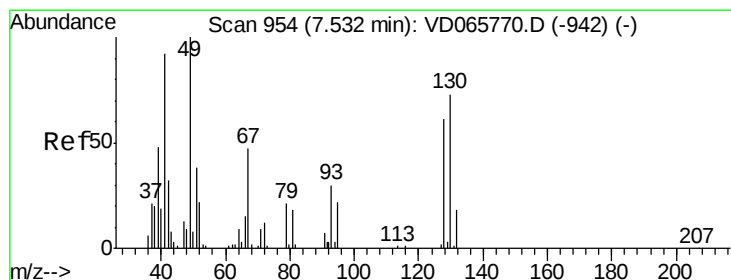
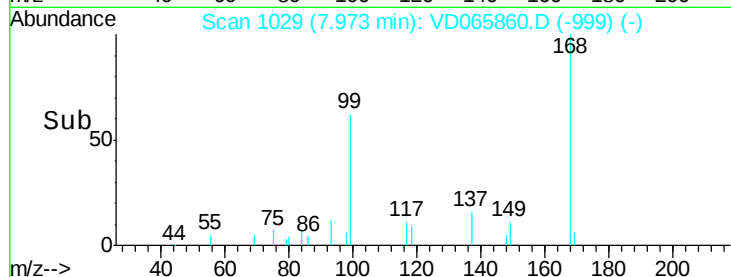
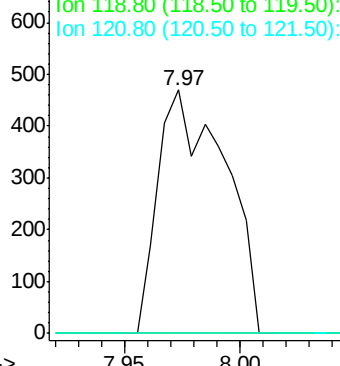
#38
Carbon Tetrachloride
Concen: 5.194 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.12 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Instrument :
MSVOA_D
ClientSampleId :
SB-14

Tot Ion:117 Resp: 943
Ion Ratio Lower Upper
117 100
119 0.0 76.8 115.2#
121 0.0 23.4 35.2#

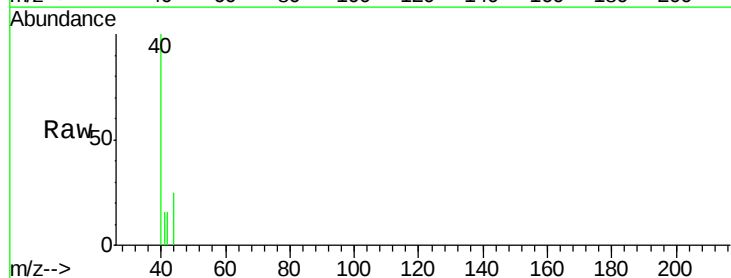


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

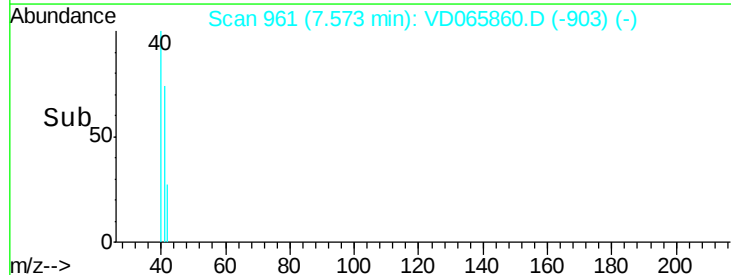
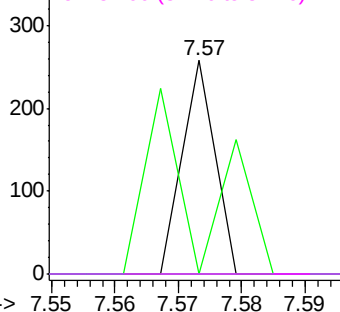


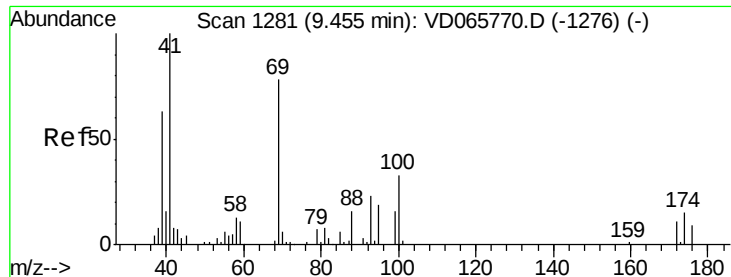
#41
Methacrylonitrile
Concen: 2.249 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.04 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion: 41 Resp: 91
Ion Ratio Lower Upper
41 100
39 150.5 38.3 57.5#
67 0.0 49.8 74.6#
52 0.0 21.7 32.5#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

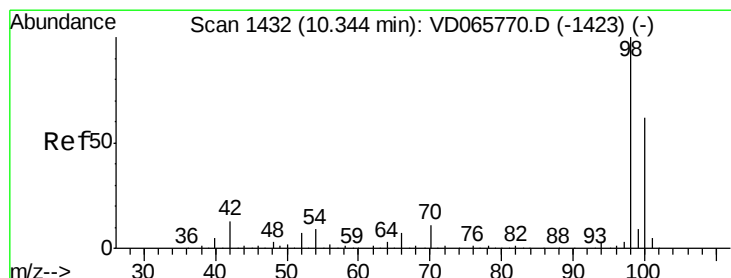
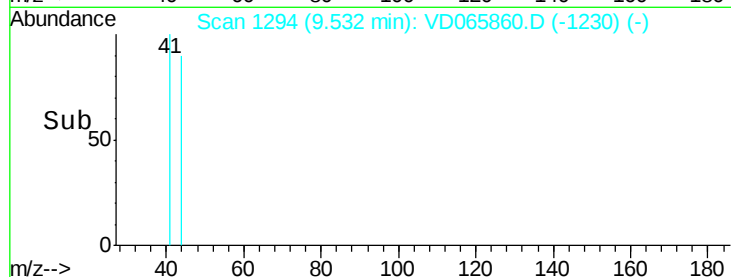
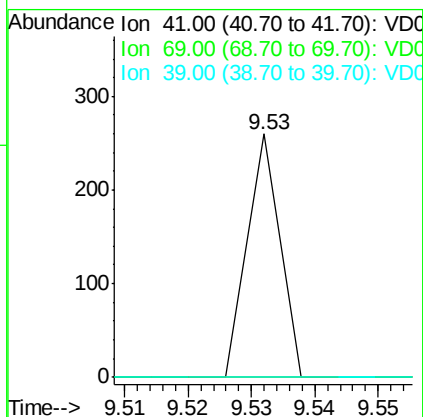
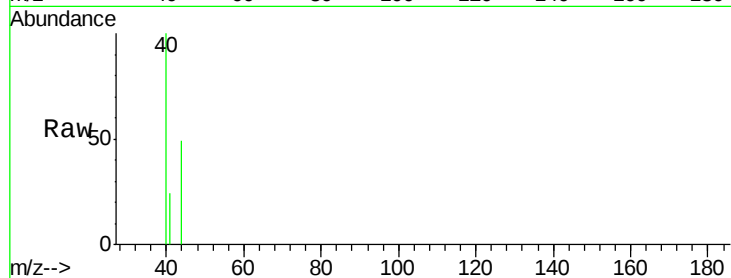




#48
Methvl methacrylate
Concen: 1.407 ug/l
RT: 9.53 min Scan# 1294
Delta R.T. 0.08 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

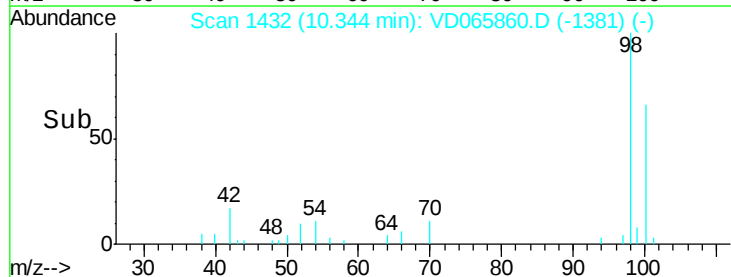
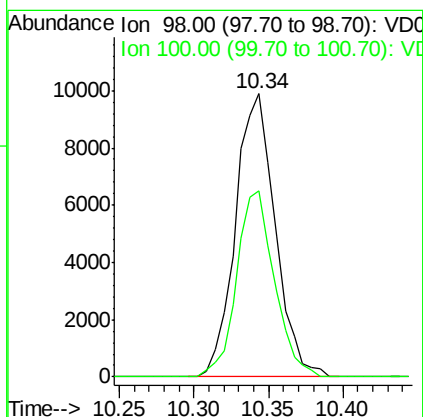
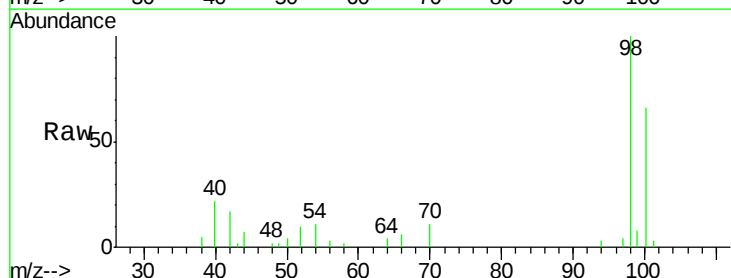
Instrument :
MSVOA_D
ClientSampleId :
SB-14

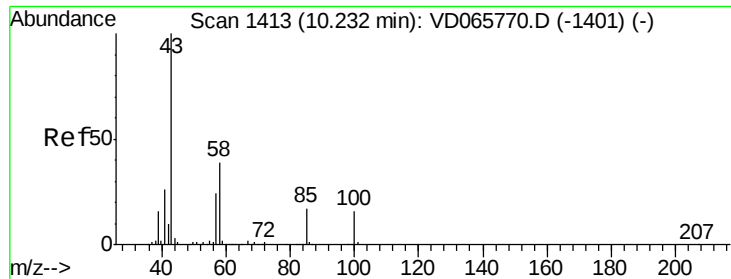
Tot Ion: 41 Resp: 92
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 48.1 72.1#



#50
Toluene-d8
Concen: 43.123 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion: 98 Resp: 18291
Ion Ratio Lower Upper
98 100
100 62.4 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 2.704 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

Instrument :

MSVOA_D

ClientSampled :

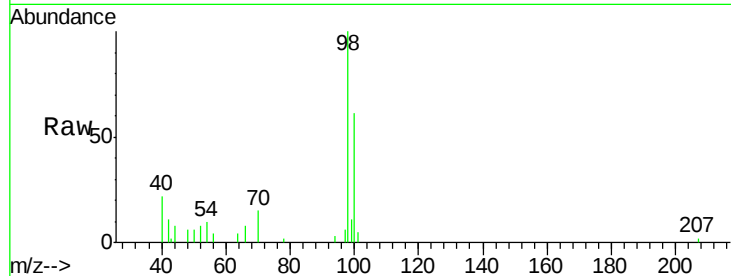
SB-14

Tot Ion: 43 Resp: 179

Ion Ratio Lower Upper

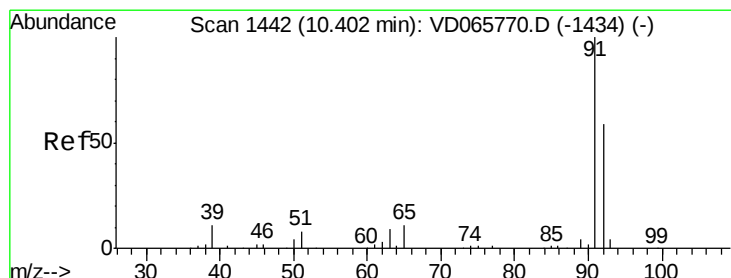
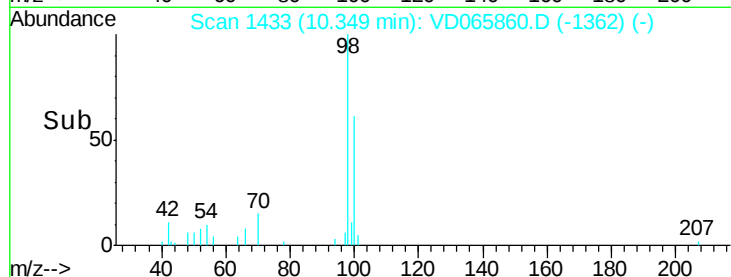
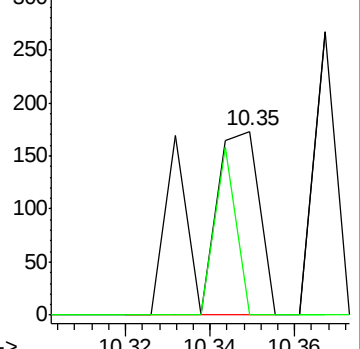
43 100

58 31.3 30.7 46.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 1.012 ug/l

RT: 10.41 min Scan# 1444

Delta R.T. 0.01 min

Lab File: VD065860.D

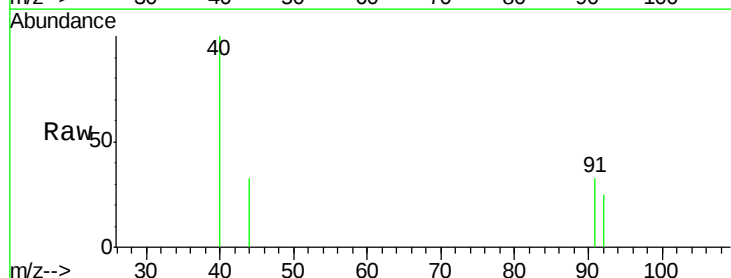
Acq: 23 Jun 2020 15:15

Tgt Ion: 92 Resp: 310

Ion Ratio Lower Upper

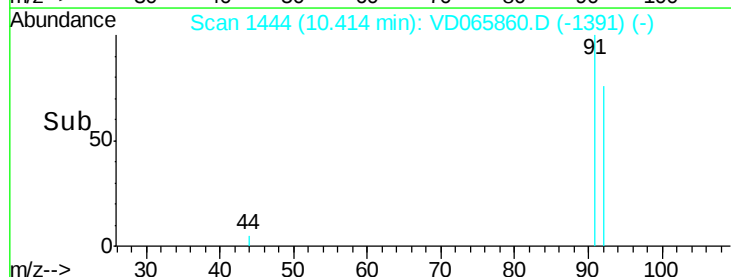
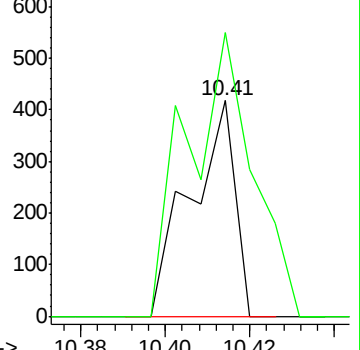
92 100

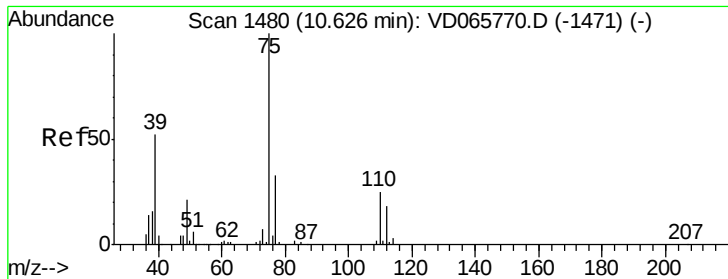
91 191.9 137.8 206.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

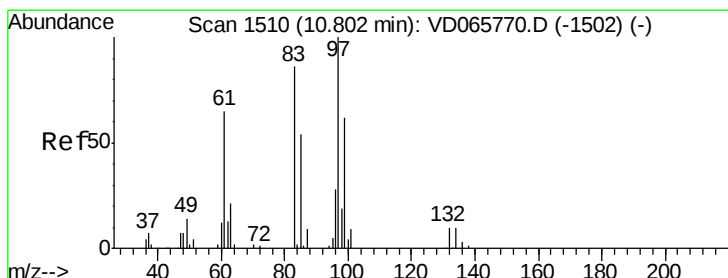
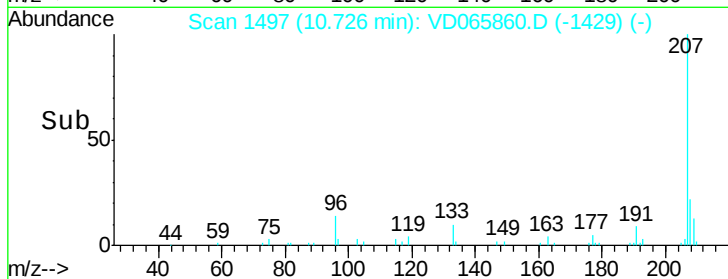
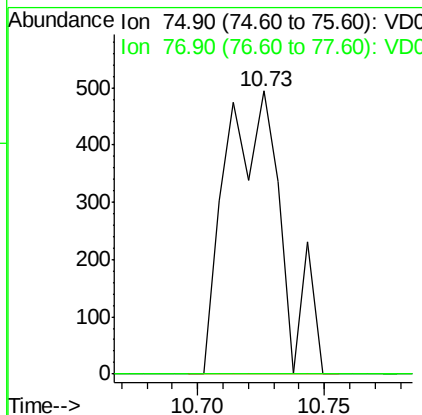
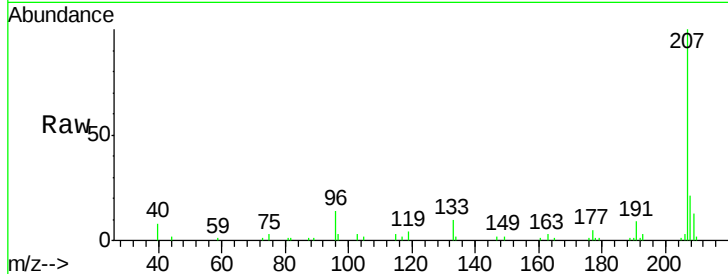




#53
t-1,3-Dichloropropene
Concen: 4.925 ug/l
RT: 10.73 min Scan# 1497
Delta R.T. 0.10 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

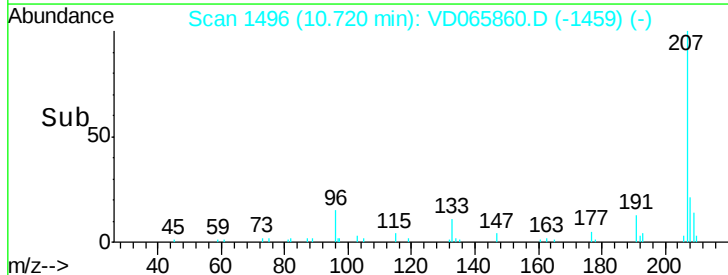
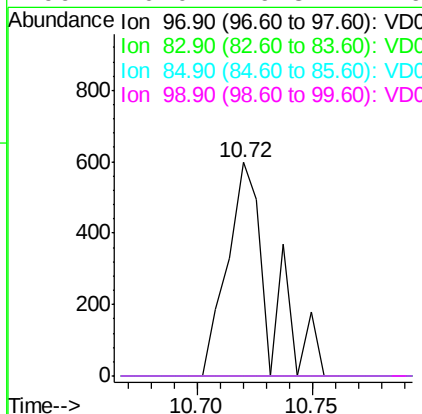
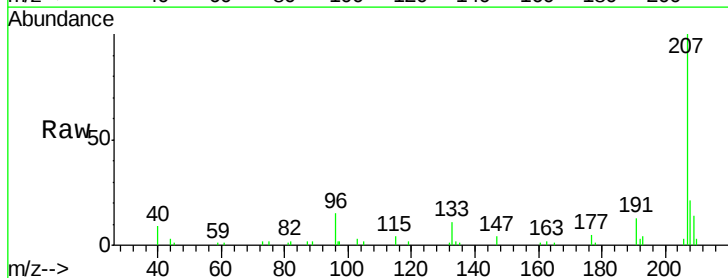
Instrument :
MSVOA_D
ClientSampled :
SB-14

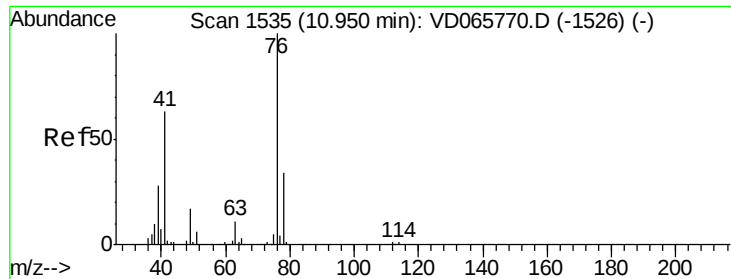
Tot Ion: 75 Resp: 768
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#



#55
1,1,2-Trichloroethane
Concen: 8.862 ug/l
RT: 10.72 min Scan# 1496
Delta R.T. -0.08 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion: 97 Resp: 761
Ion Ratio Lower Upper
97 100
83 0.0 68.7 103.1#
85 0.0 43.0 64.6#
99 0.0 49.8 74.6#





#57

1,3-Dichloropropane

Concen: 1.230 ug/l

RT: 11.09 min Scan# 1559

Delta R.T. 0.14 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

Instrument :

MSVOA_D

ClientSampleId :

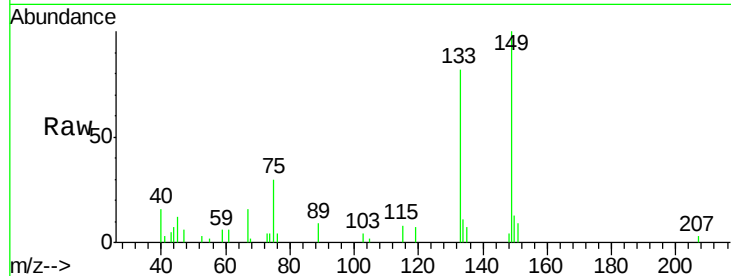
SB-14

Tot Ion: 76 Resp: 183

Ion Ratio Lower Upper

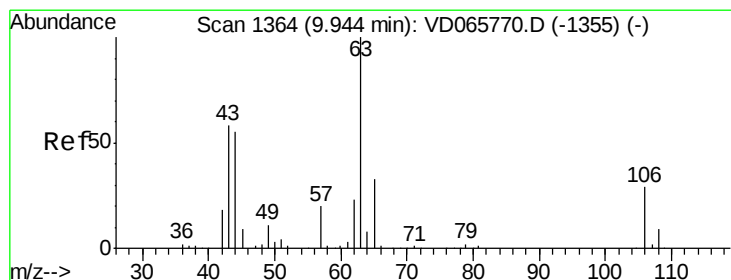
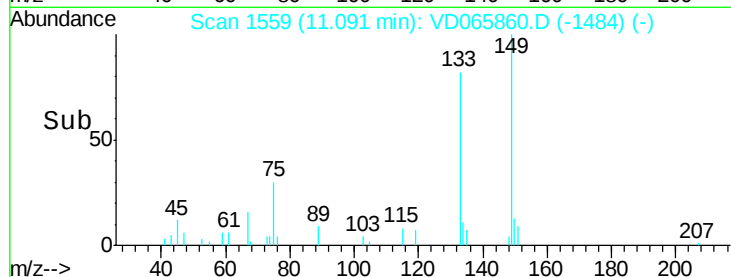
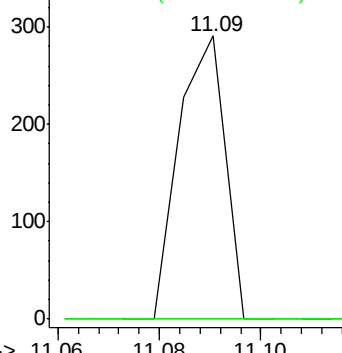
76 100

78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 6.176 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD065860.D

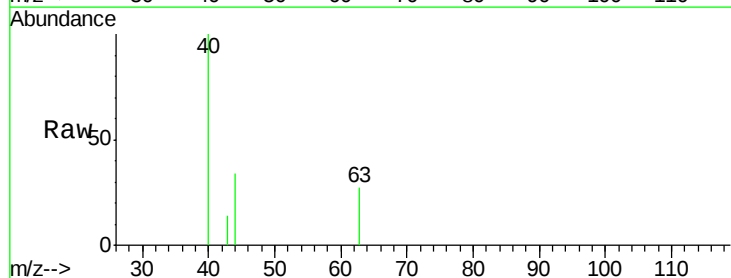
Acq: 23 Jun 2020 15:15

Tgt Ion: 63 Resp: 290

Ion Ratio Lower Upper

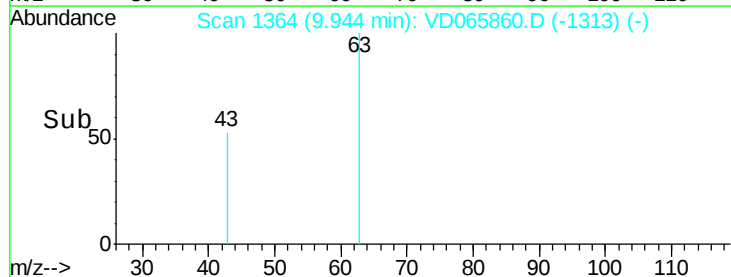
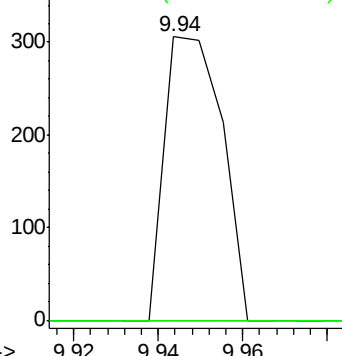
63 100

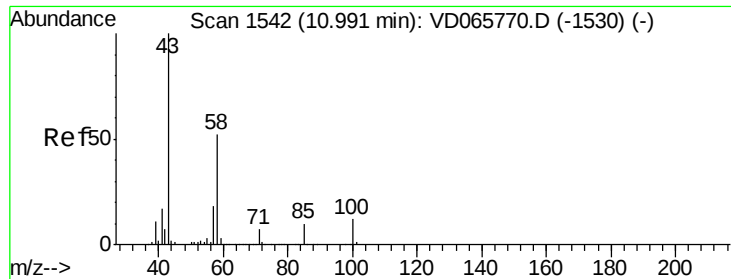
106 0.0 23.2 34.8#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

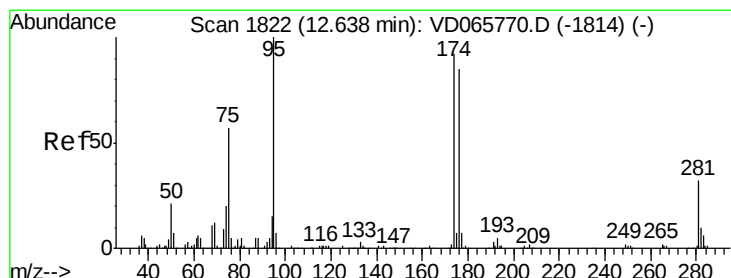
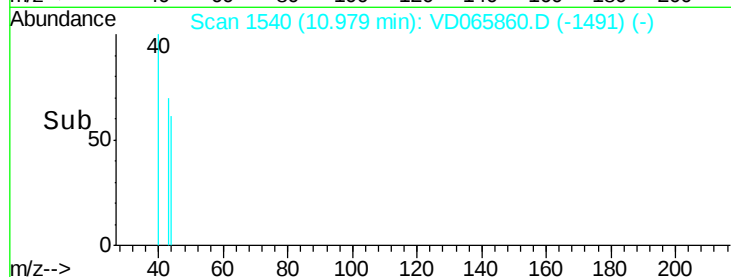
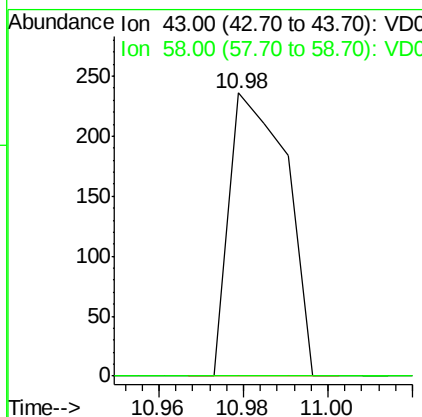
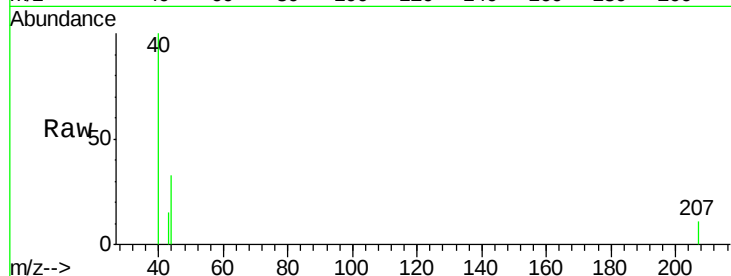




#59
2-Hexanone
Concen: 4.996 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

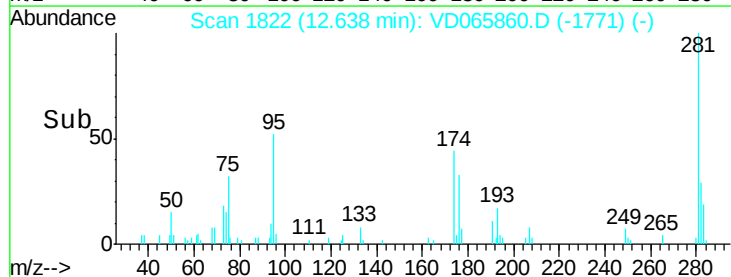
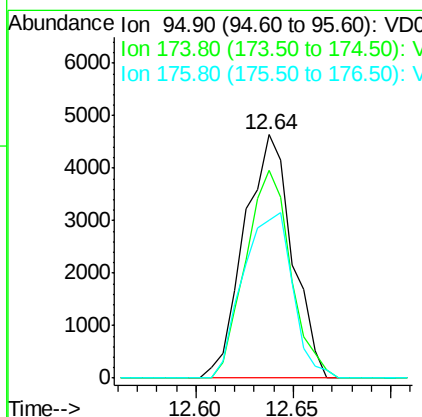
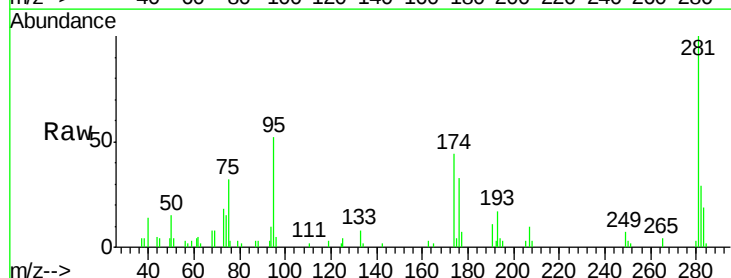
Instrument :
MSVOA_D
ClientSampled :
SB-14

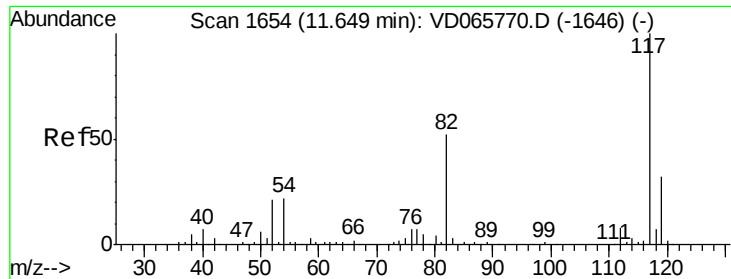
Tot Ion: 43 Resp: 223
Ion Ratio Lower Upper
43 100
58 0.0 25.7 77.0#



#62
4-Bromofluorobenzene
Concen: 54.788 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion: 95 Resp: 7881
Ion Ratio Lower Upper
95 100
174 80.4 0.0 175.2
176 70.3 0.0 163.0

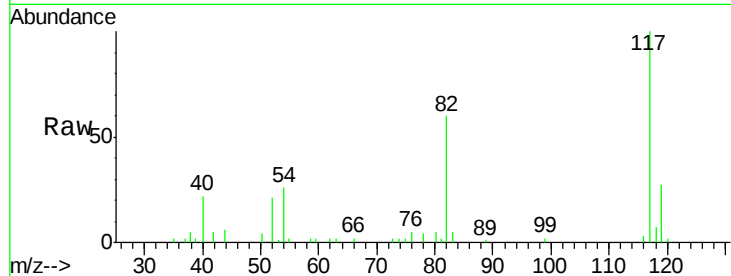




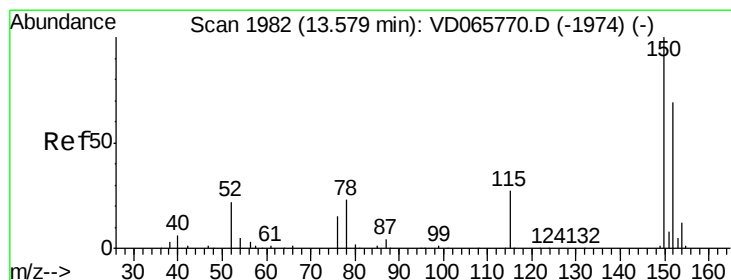
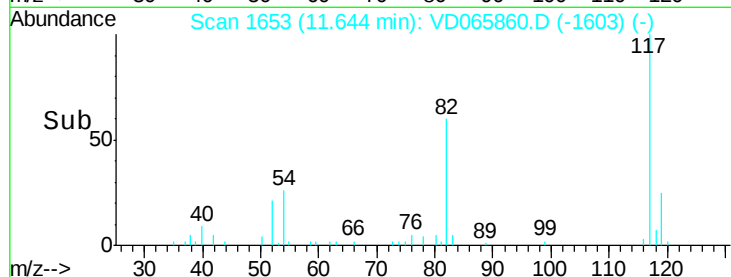
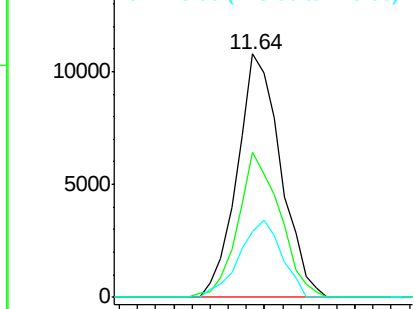
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Instrument :
MSVOA_D
ClientSampleId :
SB-14

Tot Ion:117 Resp: 17917
Ion Ratio Lower Upper
117 100
82 59.7 41.9 62.9
119 26.9 25.3 37.9

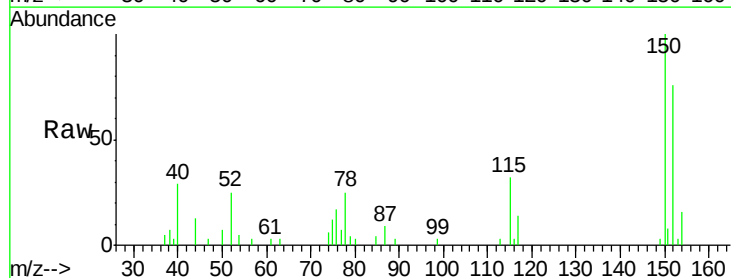


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

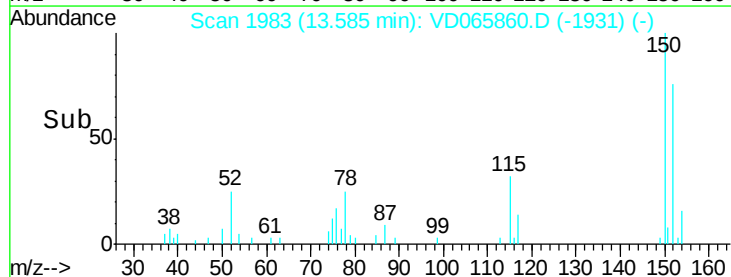
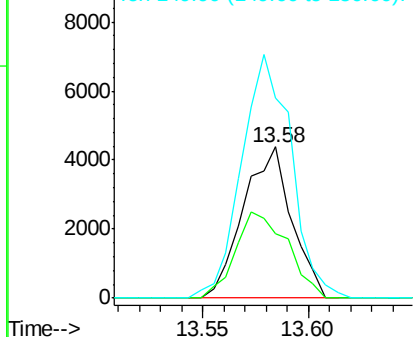


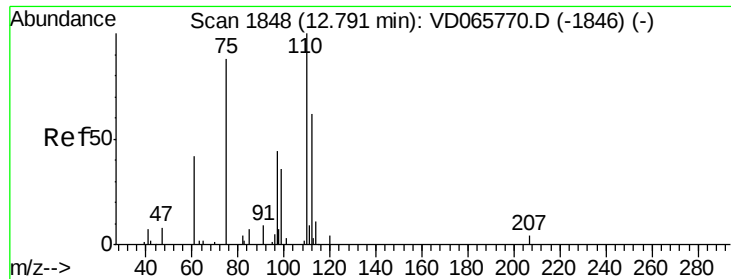
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD065860.D
Acq: 23 Jun 2020 15:15

Tgt Ion:152 Resp: 6997
Ion Ratio Lower Upper
152 100
115 61.1 28.7 86.1
150 164.1 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

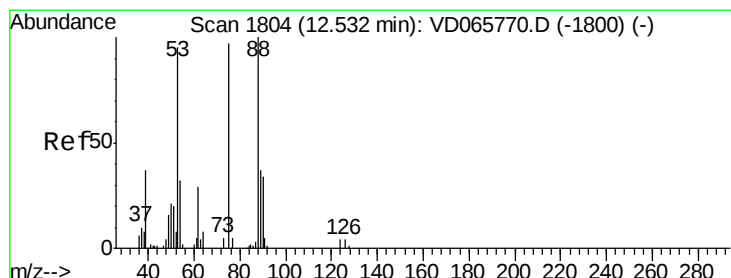
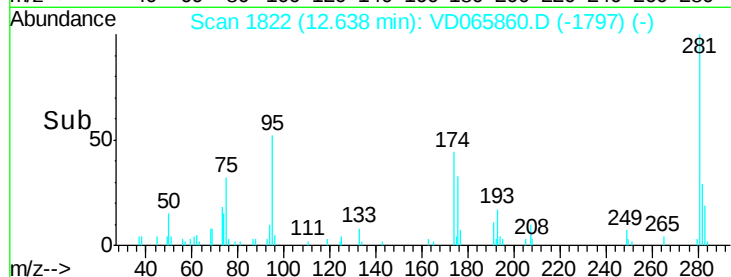
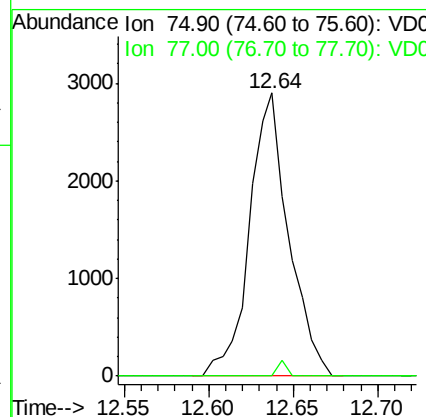
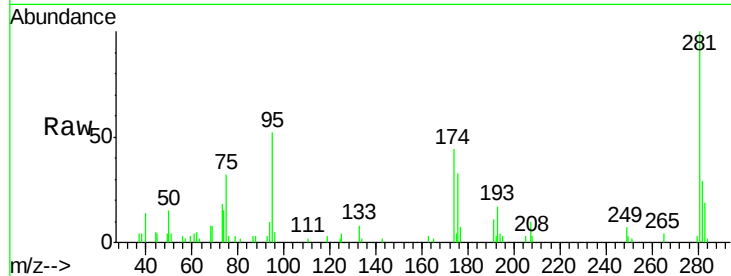




#76
 1,2,3-Trichloropropane
 Concen: 86.040 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD065860.D
 Acq: 23 Jun 2020 15:15

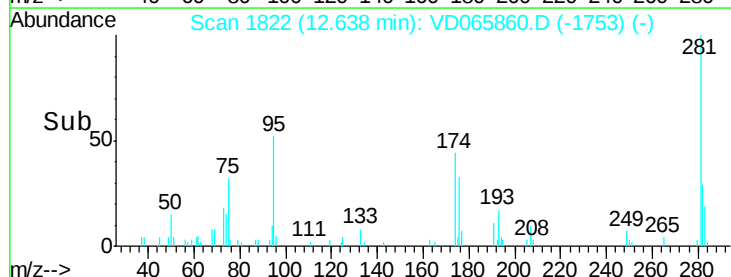
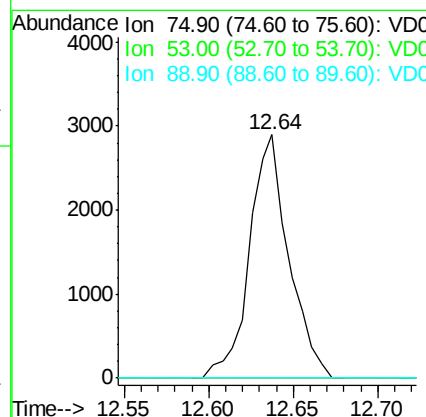
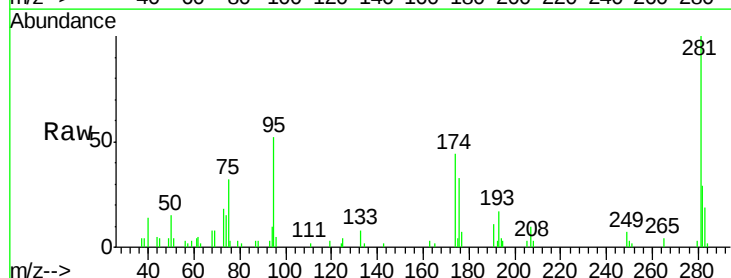
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-14

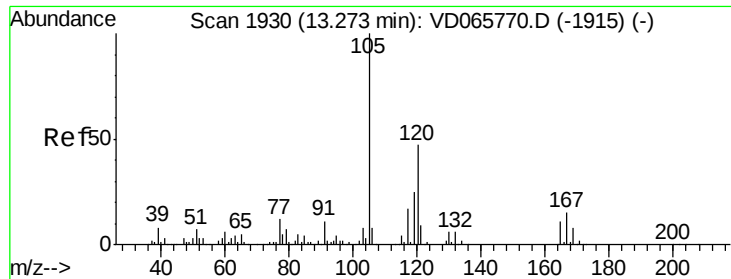
Tot Ion: 75 Resp: 4682
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 185.900 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD065860.D
 Acq: 23 Jun 2020 15:15

Tgt Ion: 75 Resp: 4682
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.6 123.8#
 89 0.0 35.9 53.9#

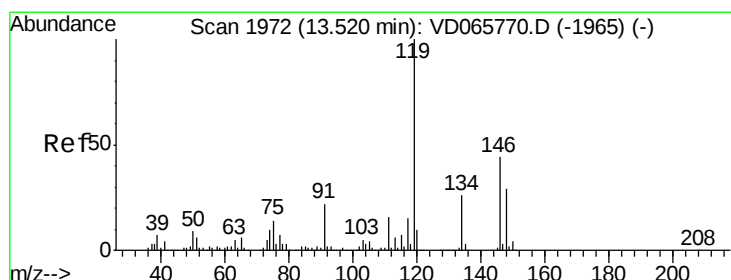
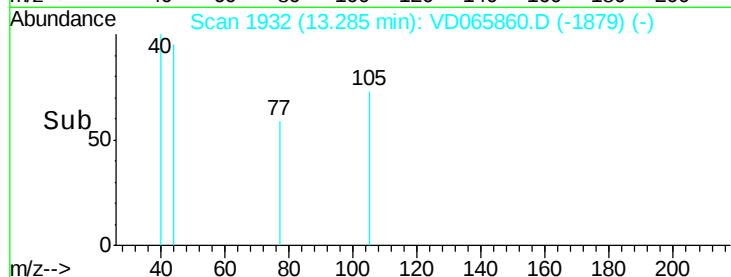
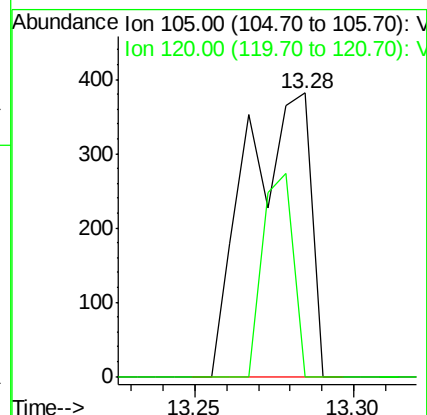
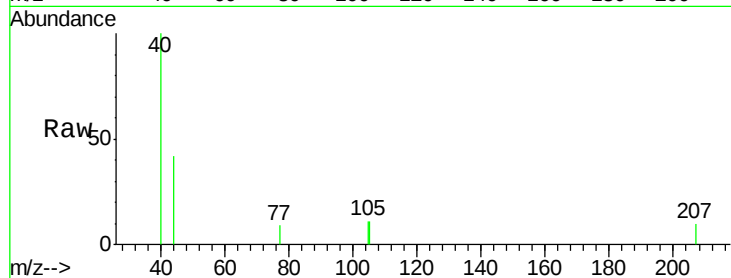




#84
 1,2,4-Trimethylbenzene
 Concen: 1.359 ug/l
 RT: 13.28 min Scan# 1932
 Delta R.T. 0.01 min
 Lab File: VD065860.D
 Acq: 23 Jun 2020 15:15

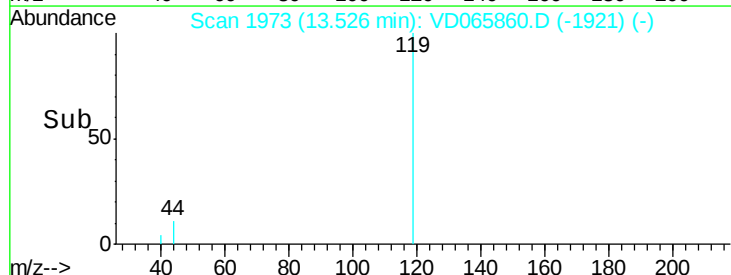
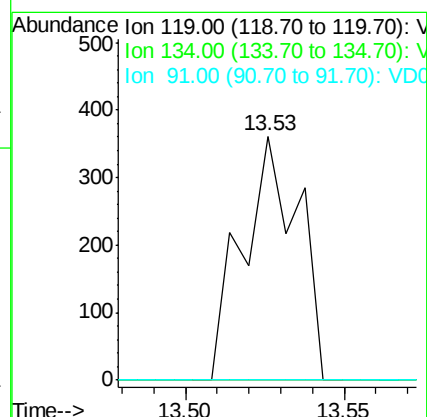
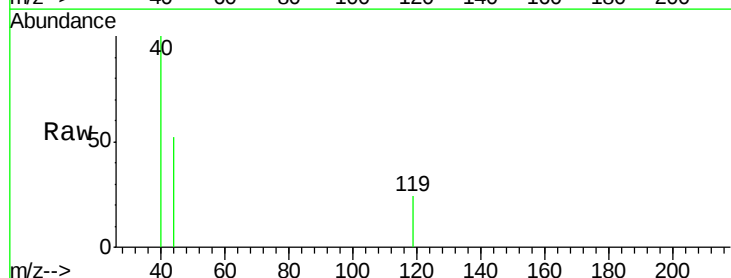
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-14

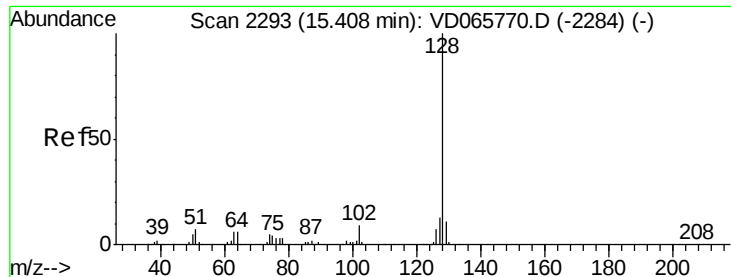
Tot Ion:105 Resp: 531
 Ion Ratio Lower Upper
 105 100
 120 34.7 23.3 69.8



#86
 p-Isopropyltoluene
 Concen: 1.021 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VD065860.D
 Acq: 23 Jun 2020 15:15

Tgt Ion:119 Resp: 441
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.3 39.9#
 91 0.0 11.8 35.4#





#95

Naphthalene

Concen: 1.904 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD065860.D

Acq: 23 Jun 2020 15:15

Instrument :

MSVOA_D

ClientSampleId :

SB-14

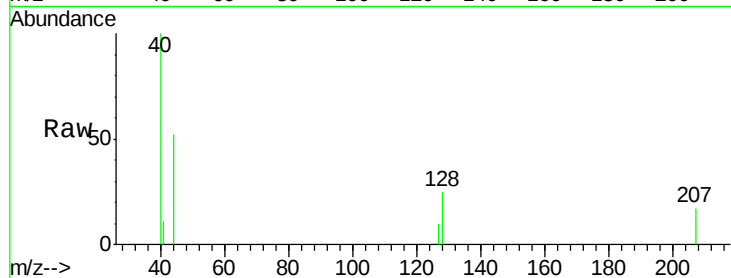
Tot Ion:128 Resp: 413

Ion Ratio Lower Upper

128 100

127 29.1 10.7 16.1#

129 0.0 8.6 12.8#



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

