

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032420\
 Data File : VD065522.D
 Acq On : 24 Mar 2020 16:29
 Operator : VA/SY
 Sample : L2009-01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 25 02:13:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	530677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	899787	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	830820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	379097	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	262900	57.75	ug/l	0.00
Spiked Amount			Recovery	=	115.50%	
35) Dibromofluoromethane	7.92	113	297329	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	
50) Toluene-d8	10.34	98	1055943	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.64	95	330466	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	

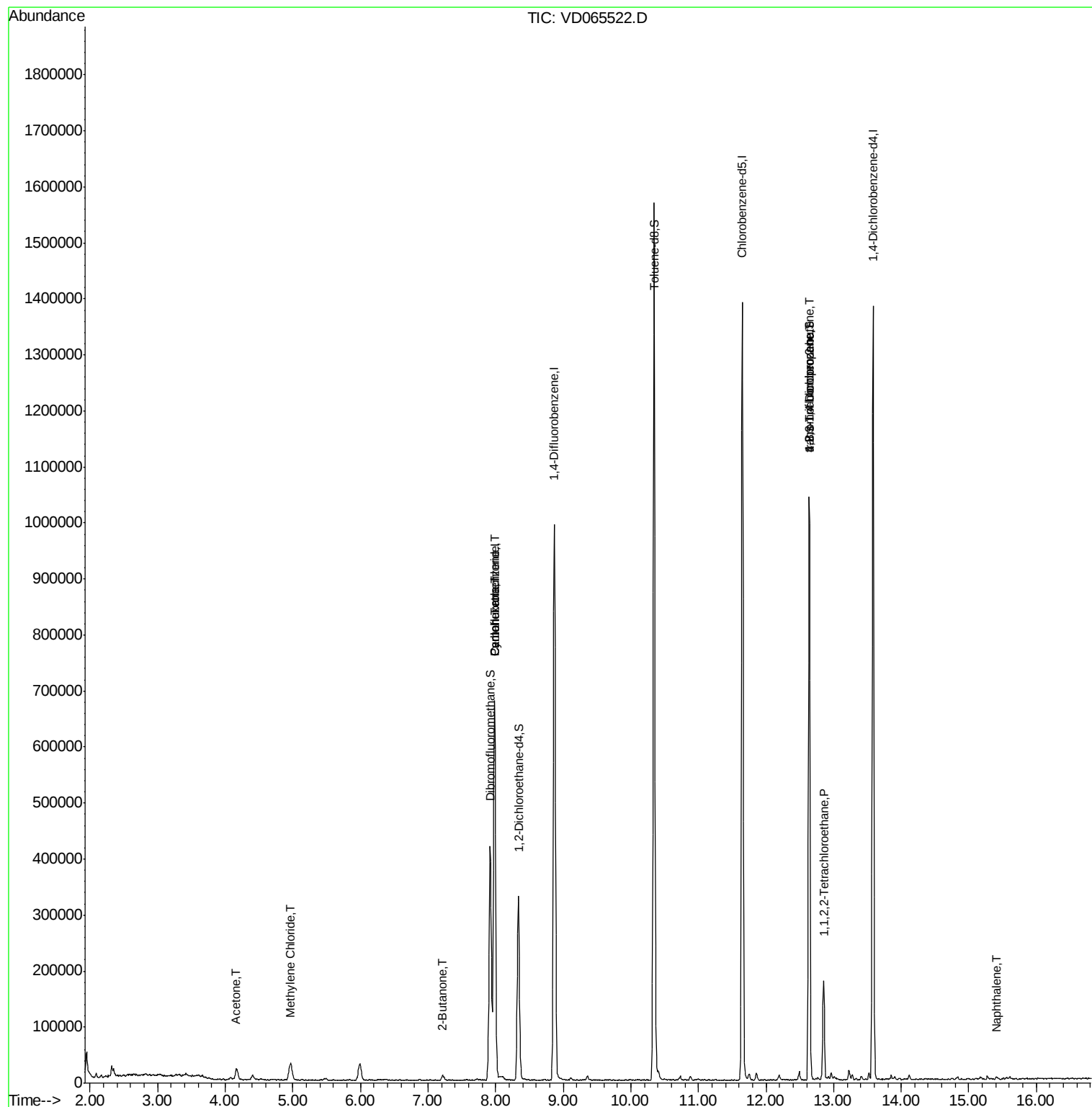
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	1514	Below Cal	#	70
16) Acetone	4.16	43	33997	36.928	ug/l	98
20) Methylene Chloride	4.97	84	25022	1.664	ug/l	92
25) 2-Butanone	7.22	43	9231	7.348	ug/l #	87
31) Cyclohexane	7.98	56	11326	1.253	ug/l #	1
38) Carbon Tetrachloride	7.99	117	48518	5.425	ug/l #	19
75) 1,1,2,2-Tetrachloroethane	12.86	83	18509	4.223	ug/l #	35
76) 1,2,3-Trichloropropane	12.64	75	161684	54.050	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	161684	114.061	ug/l #	14
95) Naphthalene	15.41	128	4363	4.732	ug/l #	92

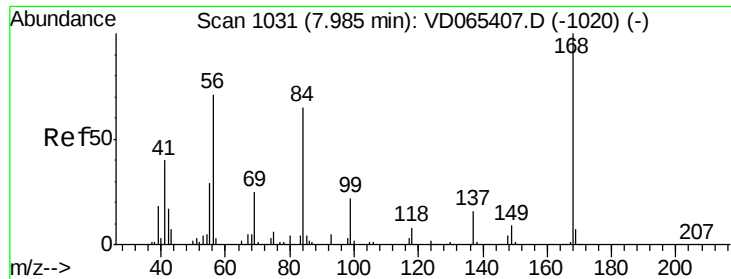
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Mar 25 02:13:52 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 05 01:22:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

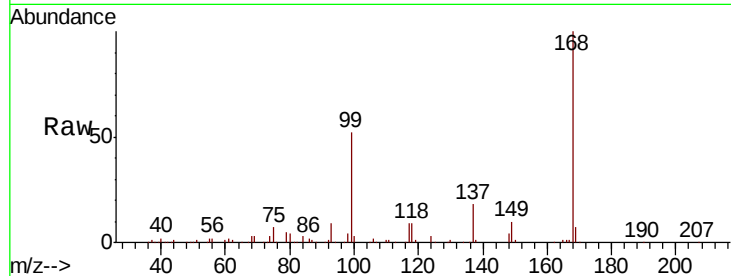
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 530677

Ion Ratio Lower Upper

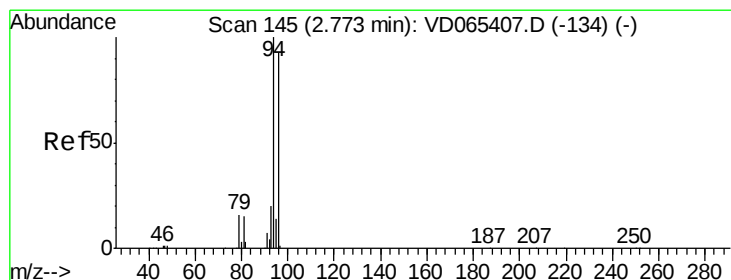
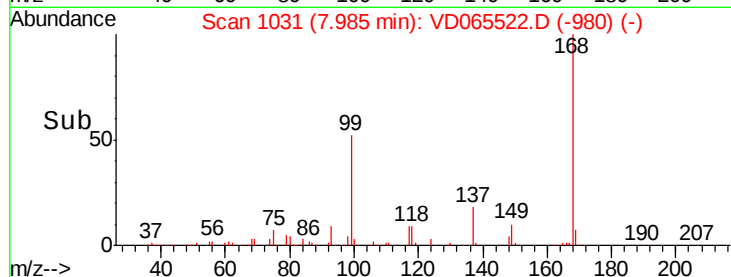
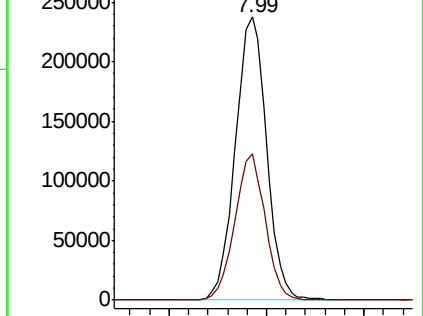
168 100

99 51.6 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065522.D

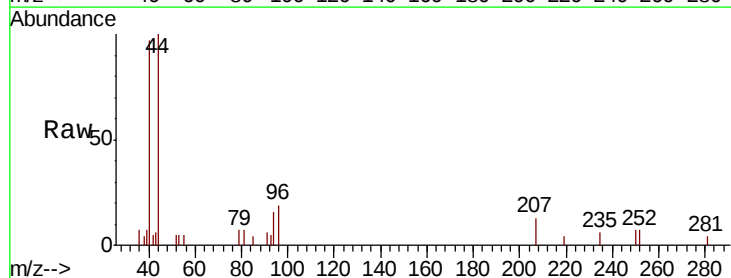
Acq: 24 Mar 2020 16:29

Tgt Ion: 94 Resp: 1514

Ion Ratio Lower Upper

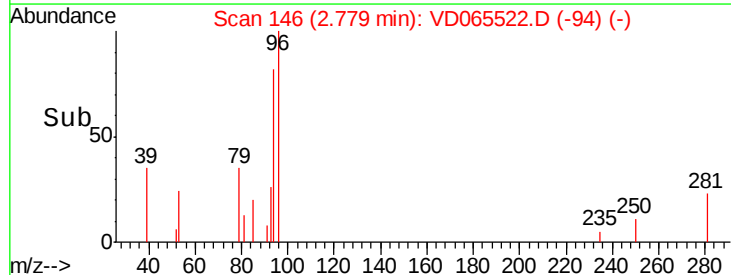
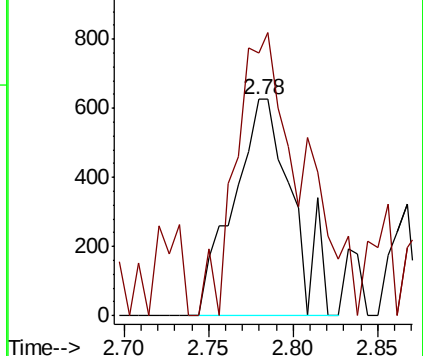
94 100

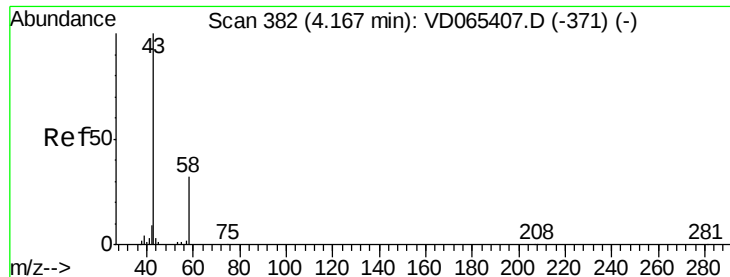
96 121.6 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 36.928 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

Instrument :

MSVOA_D

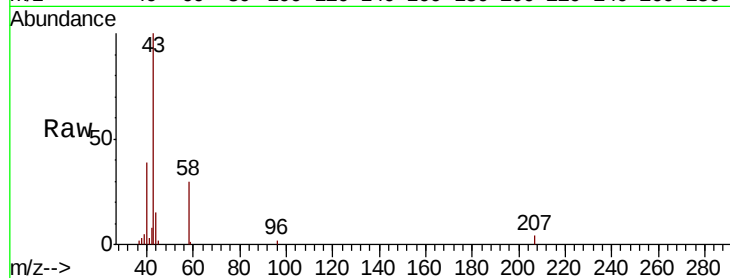
ClientSampleId :

Tot Ion: 43 Resp: 33997

Ion Ratio Lower Upper

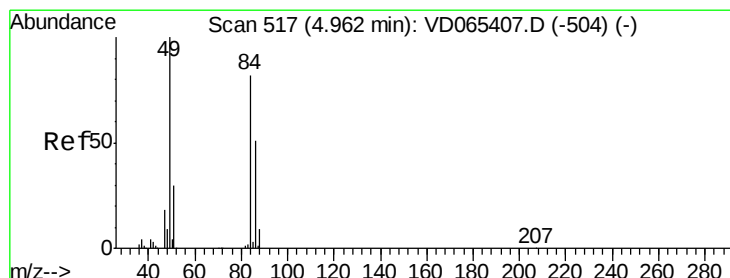
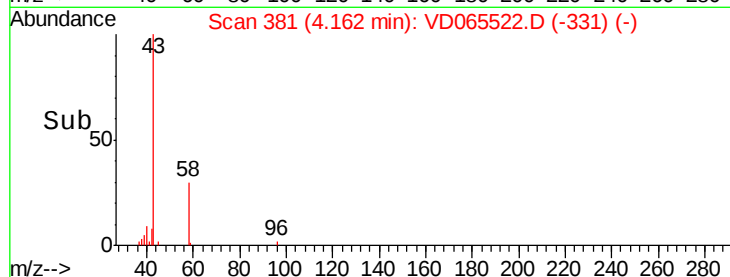
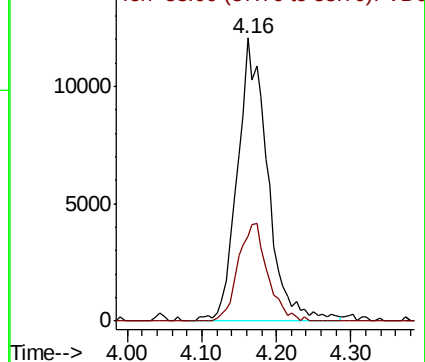
43 100

58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 1.664 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

Tgt Ion: 84 Resp: 25022

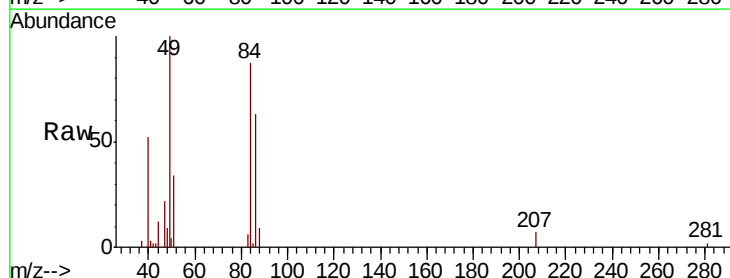
Ion Ratio Lower Upper

84 100

49 114.4 97.7 146.5

51 38.4 28.8 43.2

86 72.0 49.5 74.3

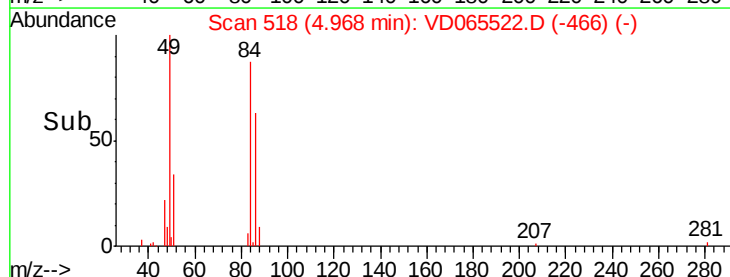
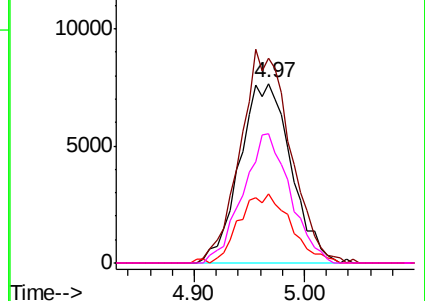


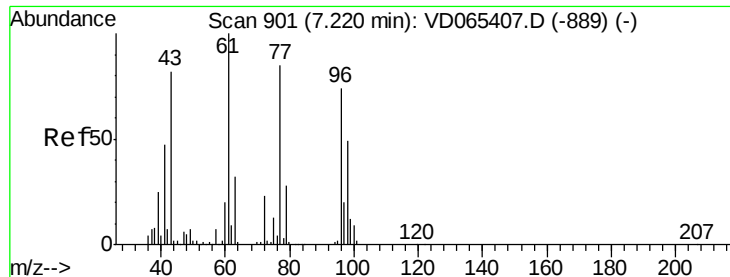
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

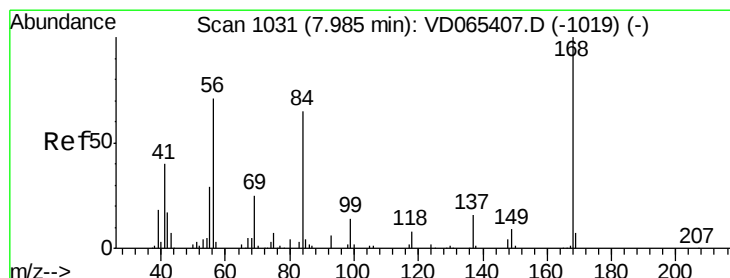
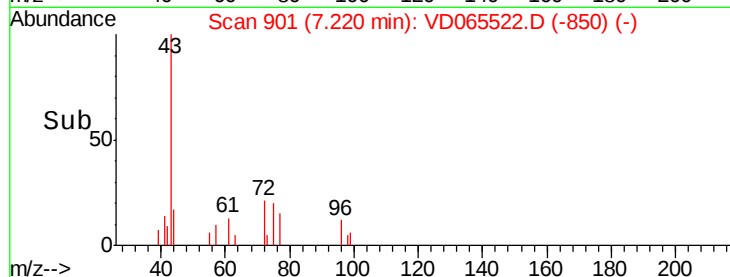
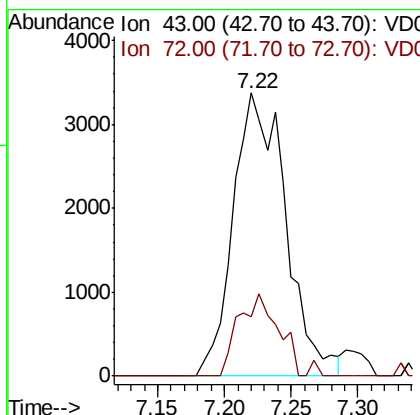
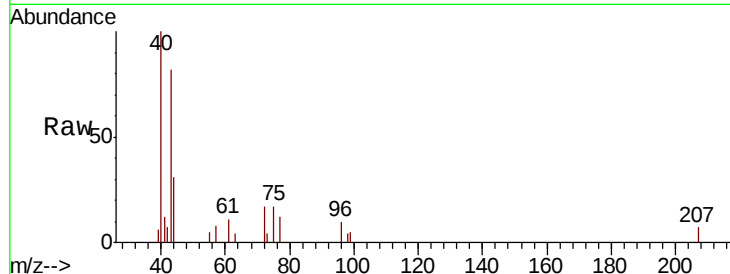




#25
2-Butanone
Concen: 7.348 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD065522.D
Acq: 24 Mar 2020 16:29

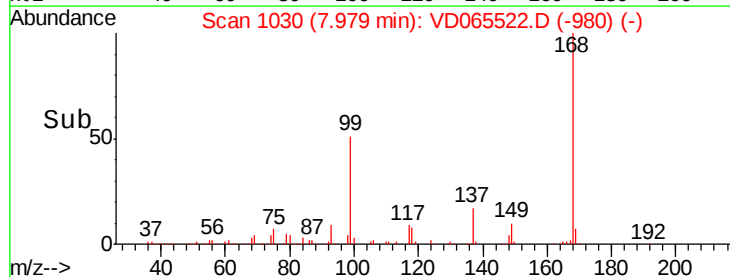
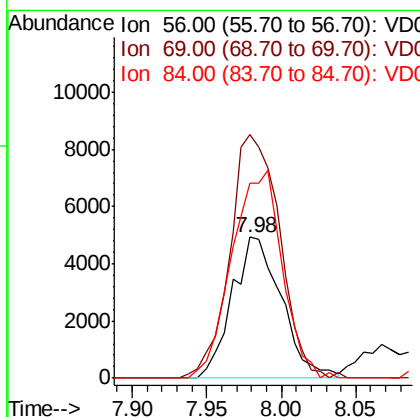
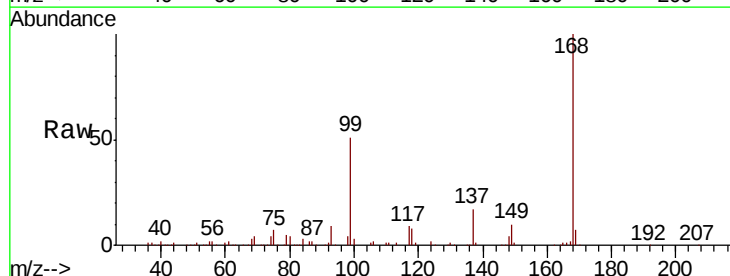
Instrument :
MSVOA_D
ClientSampleId :

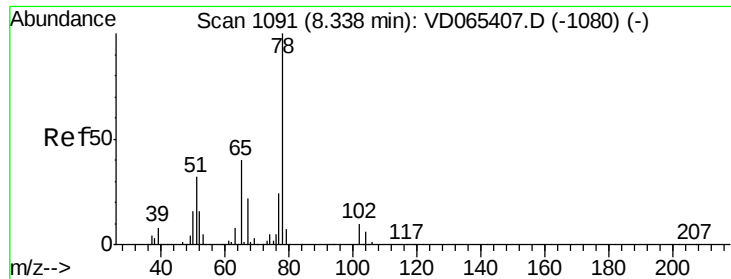
Tot Ion: 43 Resp: 9231
Ion Ratio Lower Upper
43 100
72 20.9 22.3 33.5#



#31
Cyclohexane
Concen: 1.253 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065522.D
Acq: 24 Mar 2020 16:29

Tgt Ion: 56 Resp: 11326
Ion Ratio Lower Upper
56 100
69 169.6 28.3 42.5#
84 138.7 73.1 109.7#





#33

1,2-Dichloroethane-d4

Concen: 57.753 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

Instrument :

MSVOA_D

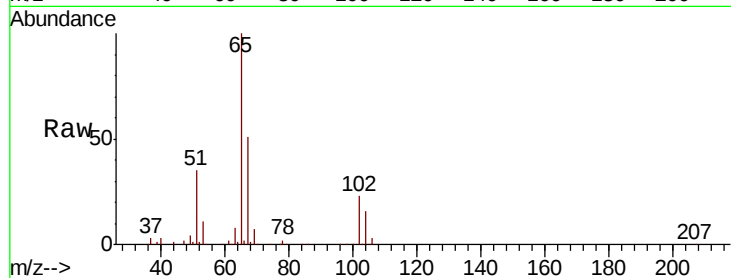
ClientSampleId :

Tot Ion: 65 Resp: 262900

Ion Ratio Lower Upper

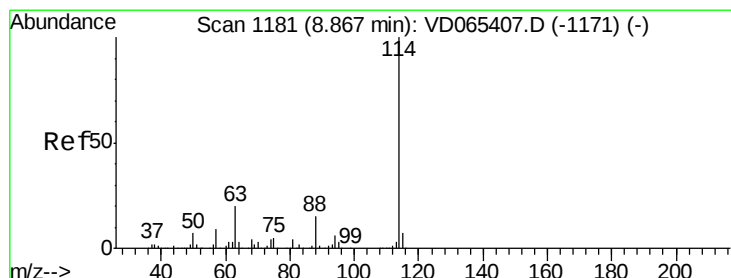
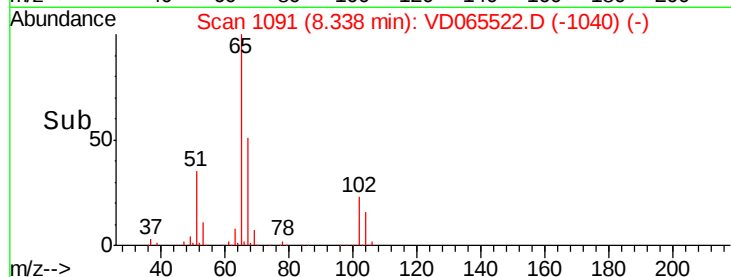
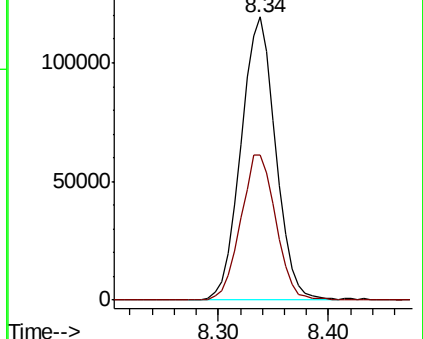
65 100

67 52.4 0.0 108.0



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: VD065522.D

Acq: 24 Mar 2020 16:29

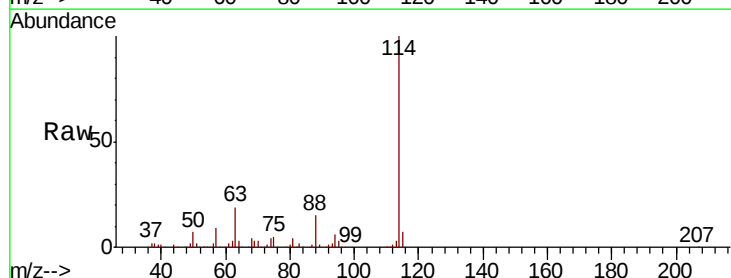
Tgt Ion: 114 Resp: 899787

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

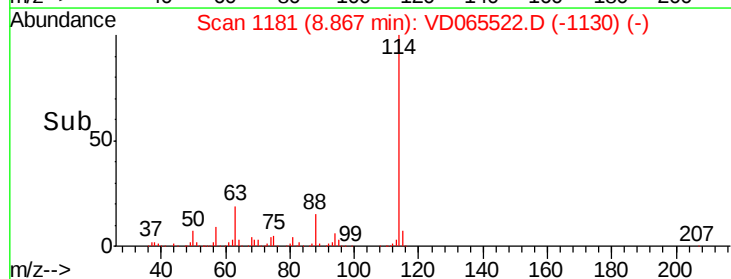
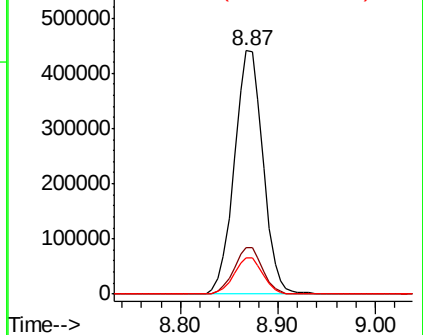
88 14.8 0.0 30.4

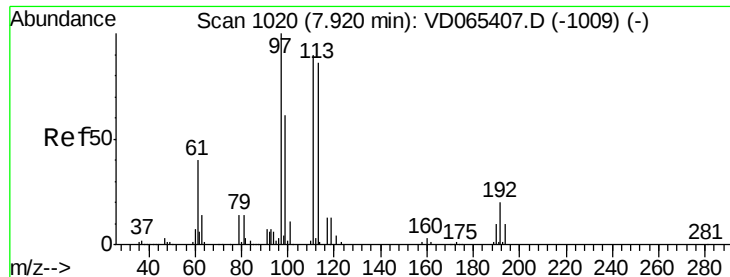


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

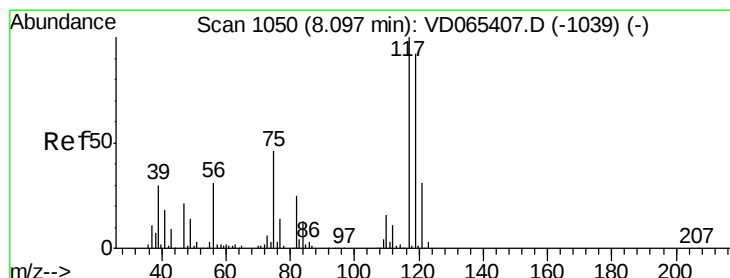
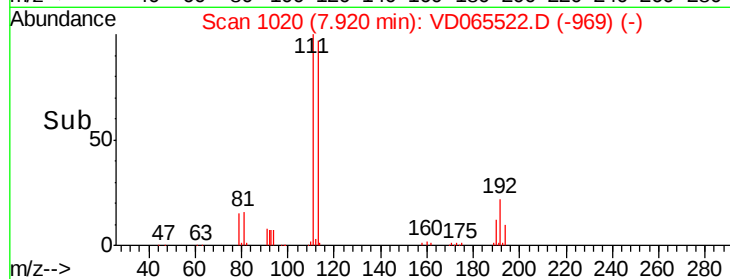
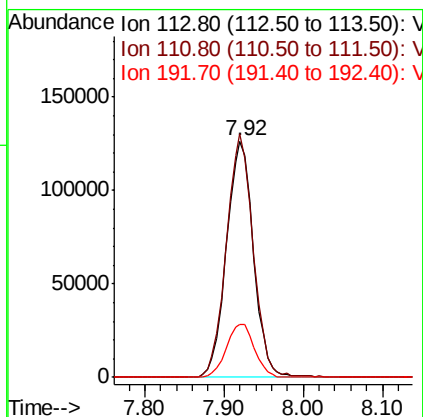
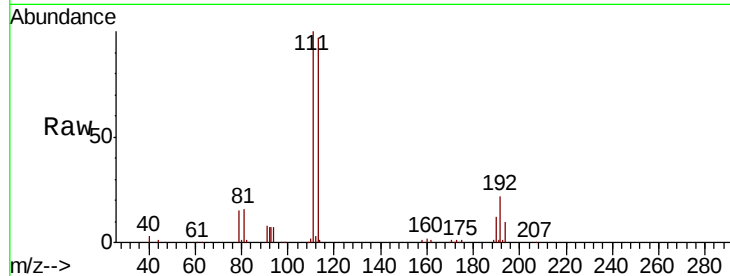




#35
 Dibromofluoromethane
 Concen: 53.435 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065522.D
 Acq: 24 Mar 2020 16:29

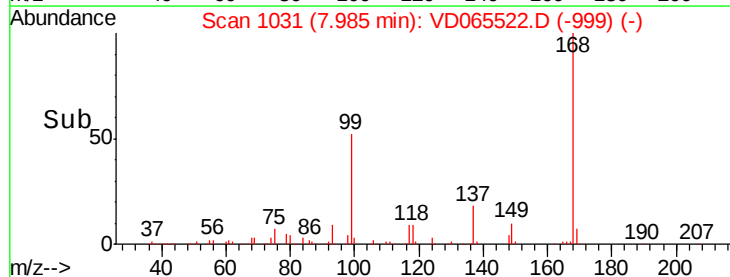
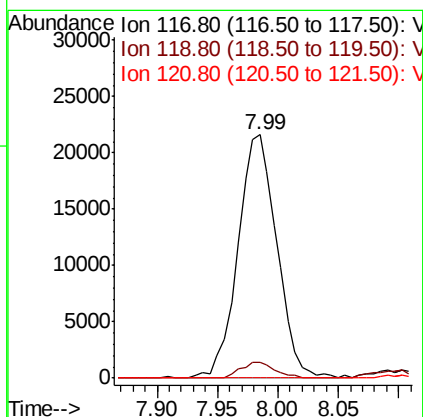
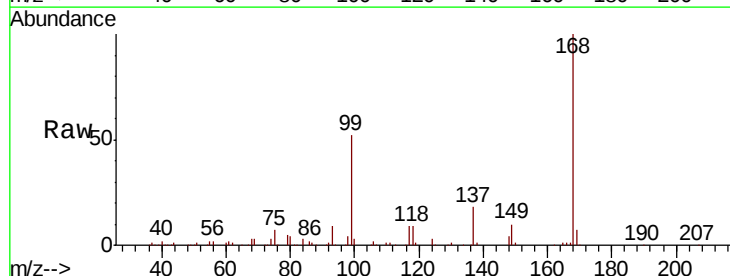
Instrument :
 MSVOA_D
 ClientSampleId :

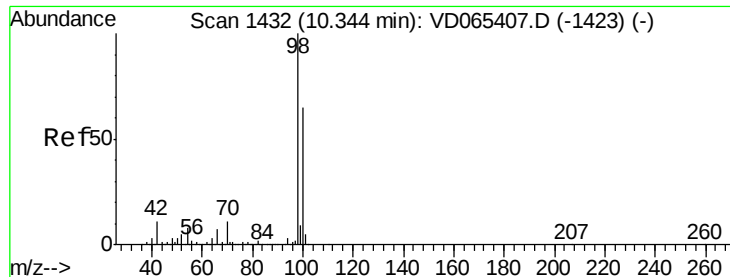
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.1	123.1
192	23.4	17.2	25.8



#38
 Carbon Tetrachloride
 Concen: 5.425 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD065522.D
 Acq: 24 Mar 2020 16:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	73.3	109.9#
121	0.0	25.0	37.4#





#50

Toluene-d8

Concen: 49.466 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

Instrument :

MSVOA_D

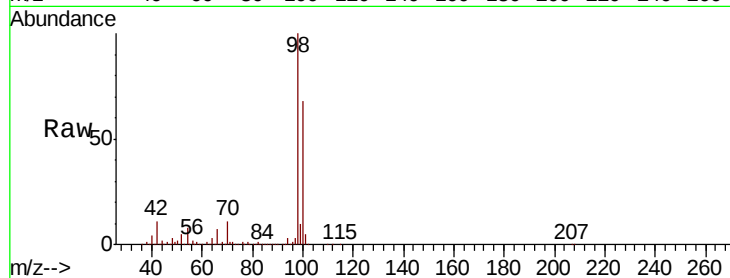
ClientSampleId :

Tot Ion: 98 Resp: 1055943

Ion Ratio Lower Upper

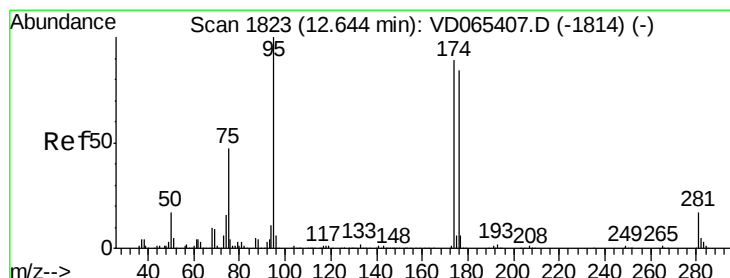
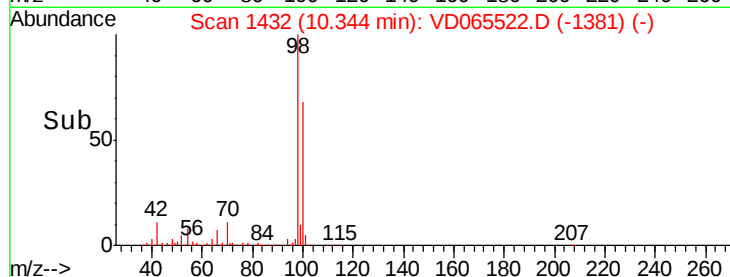
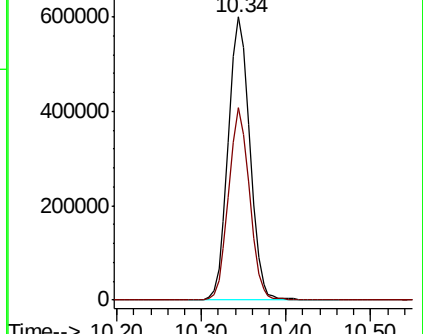
98 100

100 65.9 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 50.147 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

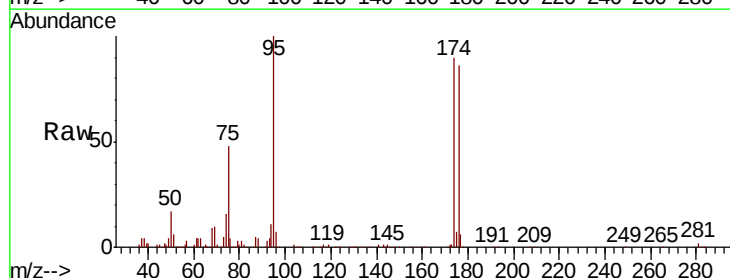
Tgt Ion: 95 Resp: 330466

Ion Ratio Lower Upper

95 100

174 92.6 0.0 176.8

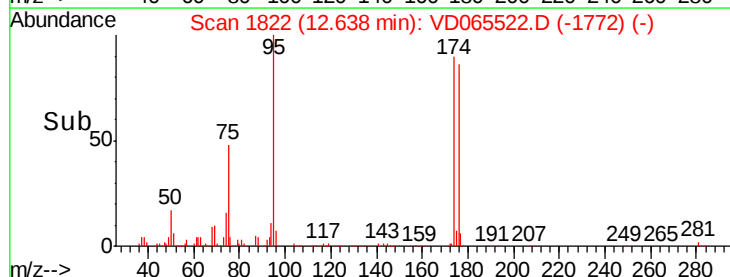
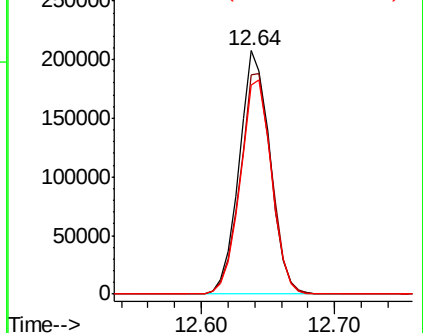
176 89.2 0.0 171.4

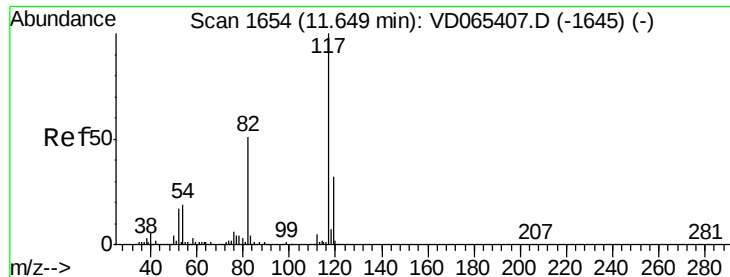


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

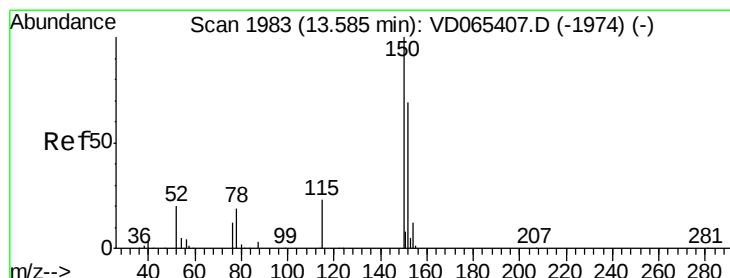
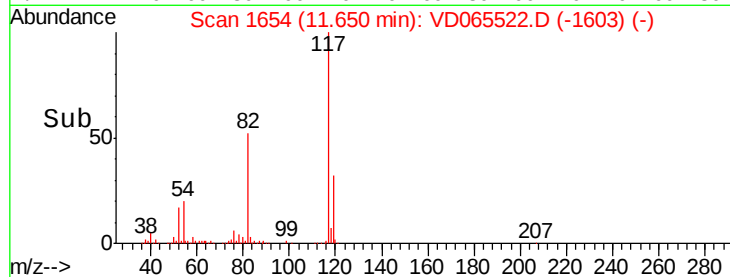
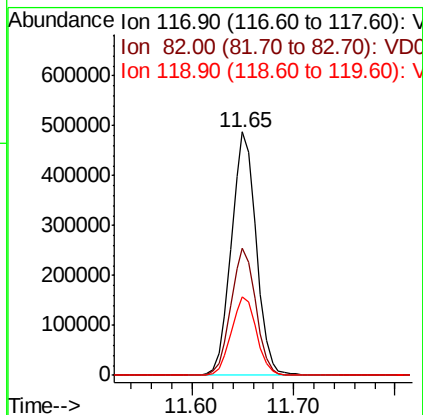
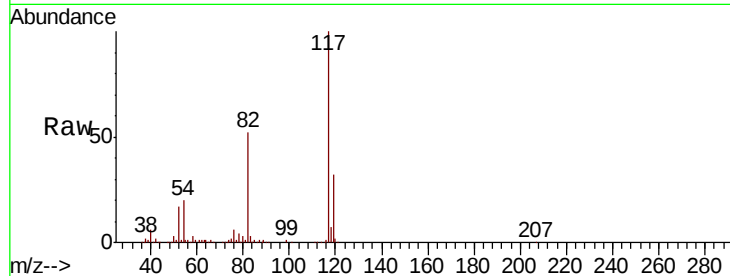




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065522.D
Acq: 24 Mar 2020 16:29

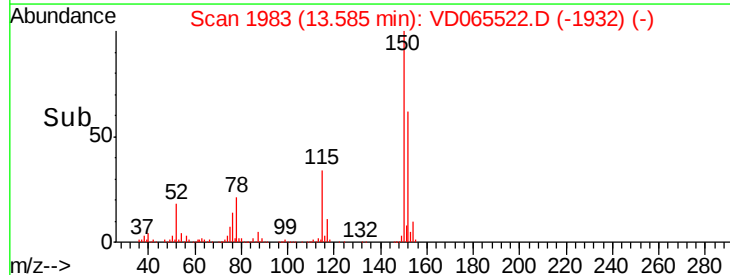
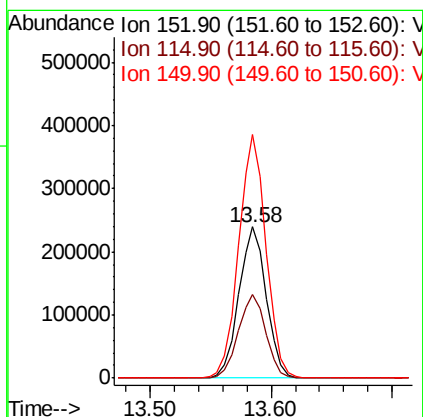
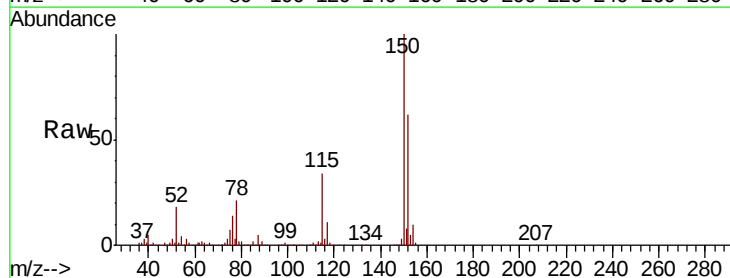
Instrument :
MSVOA_D
ClientSampleId :

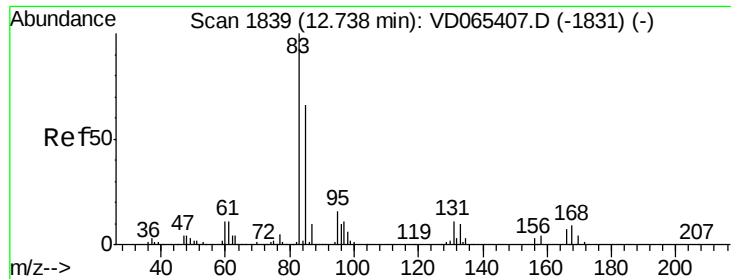
Tot Ion:117 Resp: 830820
Ion Ratio Lower Upper
117 100
82 52.1 40.6 60.8
119 32.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065522.D
Acq: 24 Mar 2020 16:29

Tgt Ion:152 Resp: 379097
Ion Ratio Lower Upper
152 100
115 55.1 27.6 82.8
150 159.4 0.0 345.0





#75

1,1,2,2-Tetrachloroethane

Concen: 4.223 ug/l

RT: 12.86 min Scan# 1859

Delta R.T. 0.12 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

Instrument :

MSVOA_D

ClientSampled :

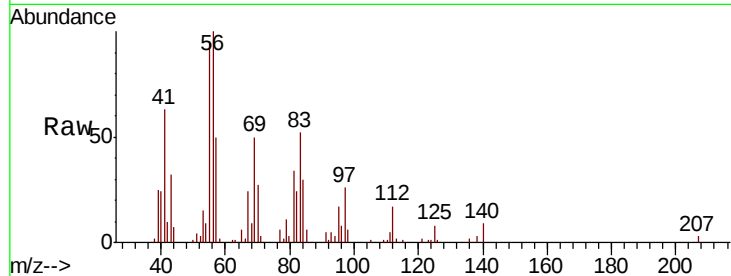
Tot Ion: 83 Resp: 18509

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

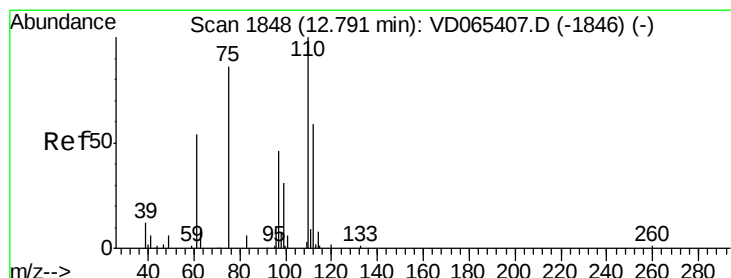
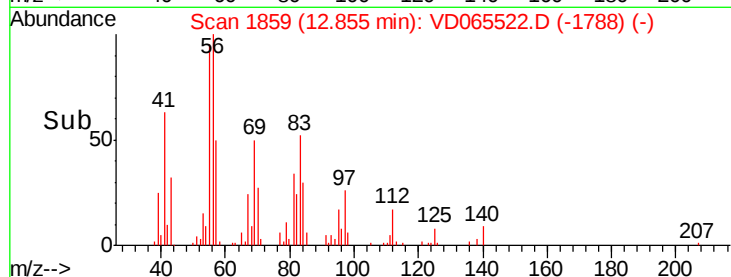
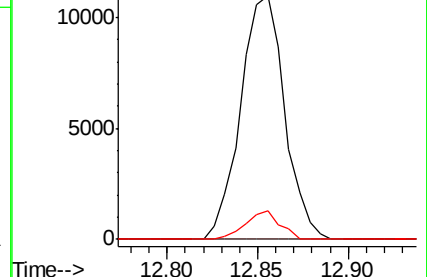
85 9.1 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 54.050 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065522.D

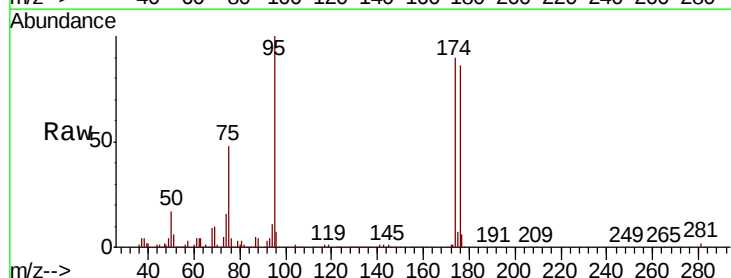
Acq: 24 Mar 2020 16:29

Tgt Ion: 75 Resp: 161684

Ion Ratio Lower Upper

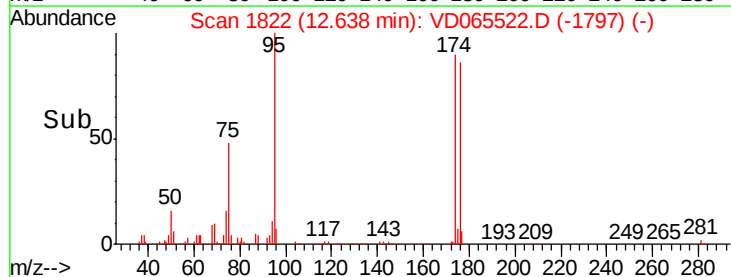
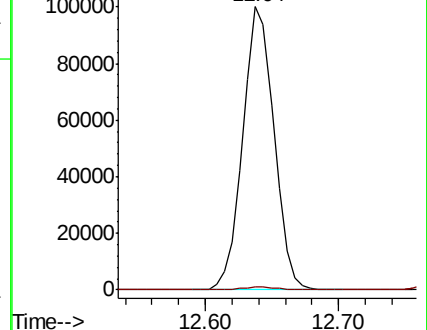
75 100

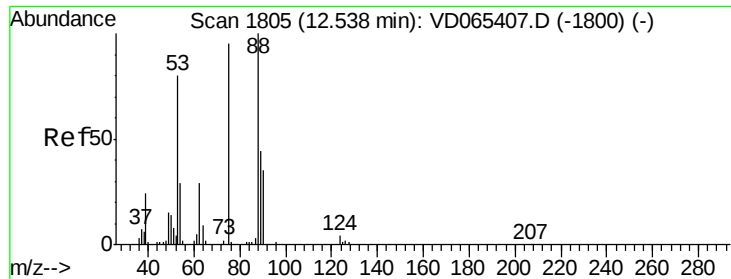
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 114.061 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

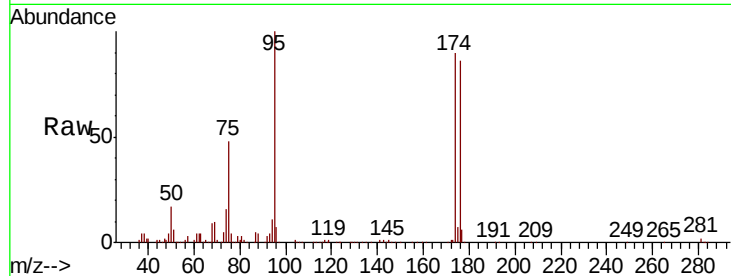
Tot Ion: 75 Resp: 161684

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

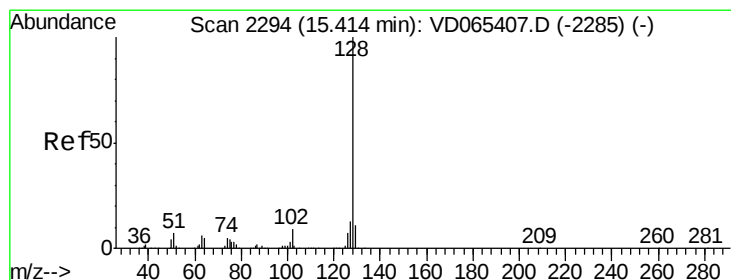
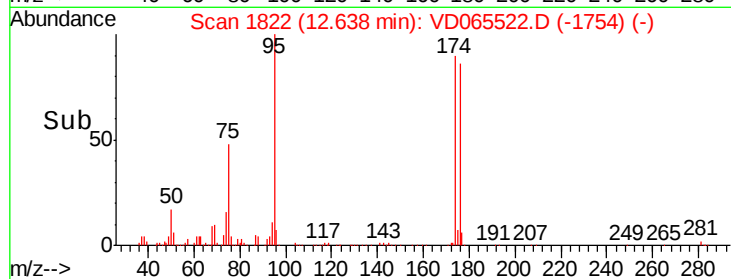
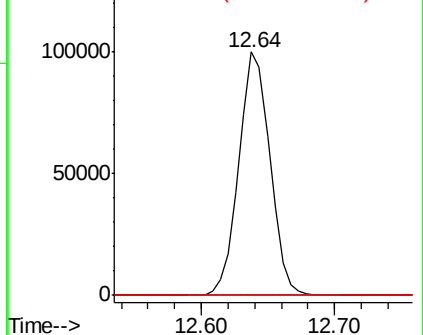
89 0.0 37.0 55.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#95

Naphthalene

Concen: 4.732 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065522.D

Acq: 24 Mar 2020 16:29

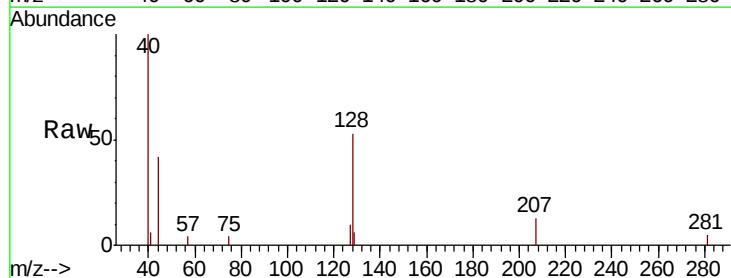
Tgt Ion:128 Resp: 4363

Ion Ratio Lower Upper

128 100

127 18.1 10.6 16.0#

129 12.1 8.7 13.1



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

