

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070319\
 Data File : VD063028.D
 Acq On : 3 Jul 2019 16:58
 Operator : VA/AP
 Sample : K3681-02
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TOP-SOIL-07-01-19

Quant Time: Jul 04 00:47:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

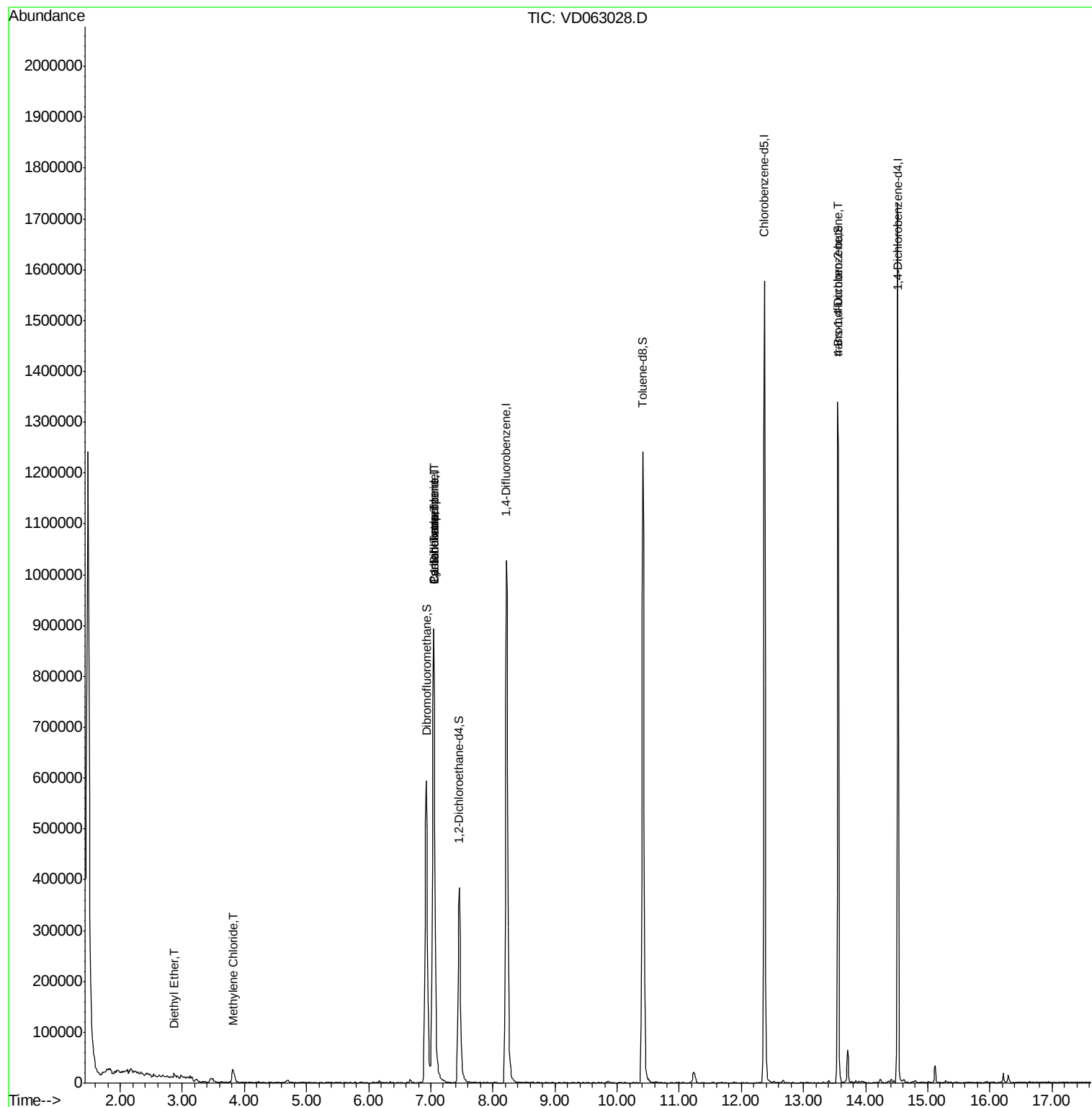
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	847865	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1103462	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	828320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	357755	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	442177	47.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.96%	
35) Dibromofluoromethane	6.93	113	512394	55.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.14%	
50) Toluene-d8	10.41	98	1003536	49.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.12%	
62) 4-Bromofluorobenzene	13.55	95	392272	42.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.20%	
Target Compounds						
8) Diethyl Ether	2.87	74	2682	1.275	ug/l	59
16) Acetone	3.23	43	9776	Below Cal		94
20) Methylene Chloride	3.83	84	17603	2.504	ug/l	98
31) Cyclohexane	7.05	56	18405	2.127	ug/l #	10
36) 1,1-Dichloropropene	7.05	75	63614	6.090	ug/l #	54
37) Ethyl Acetate	6.18	43	190	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	83198	5.296	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	180725	166.964	ug/l #	2

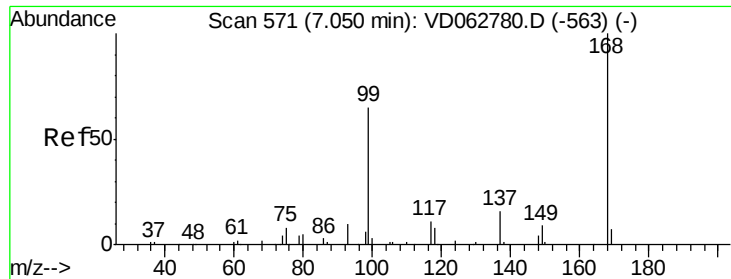
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 04 00:47:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

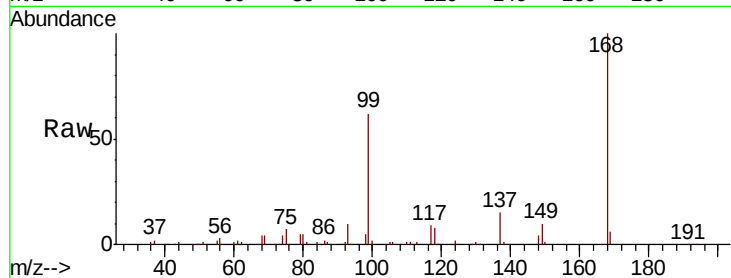
TOP-SOIL-07-01-19

Tot Ion:168 Resp: 847865

Ion Ratio Lower Upper

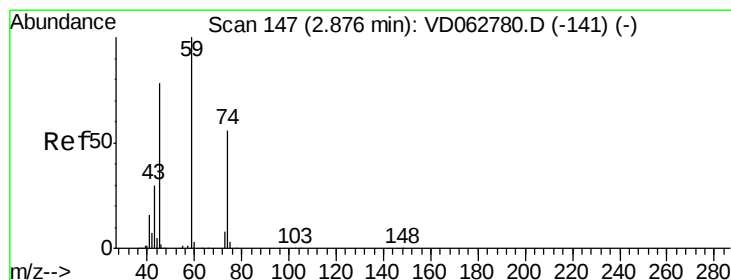
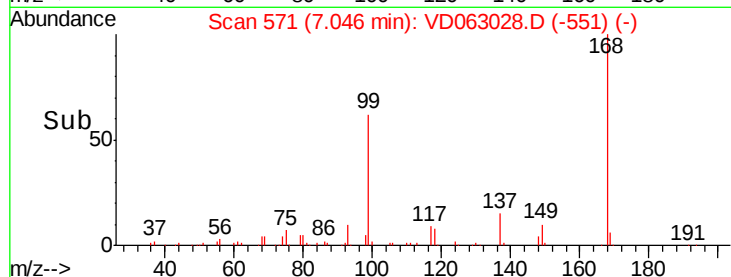
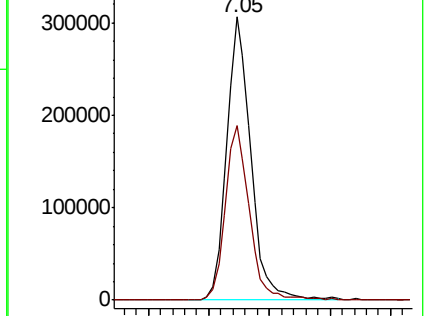
168 100

99 61.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.275 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.00 min

Lab File: VD063028.D

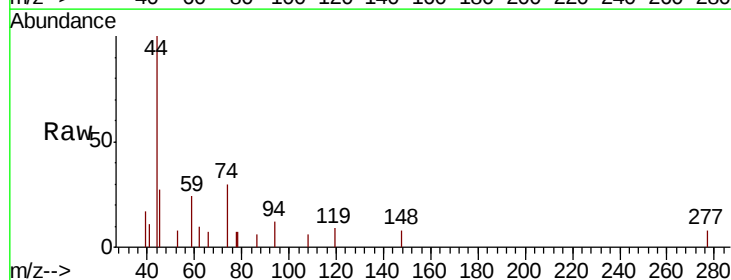
Acq: 3 Jul 2019 16:58

Tgt Ion: 74 Resp: 2682

Ion Ratio Lower Upper

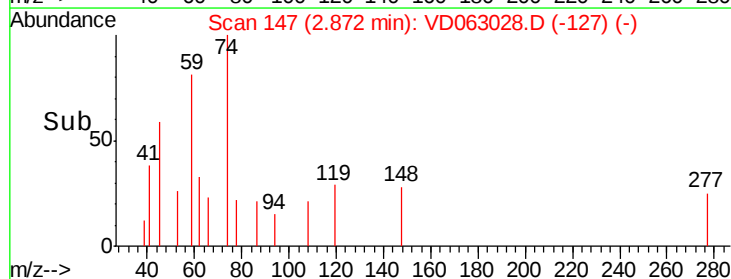
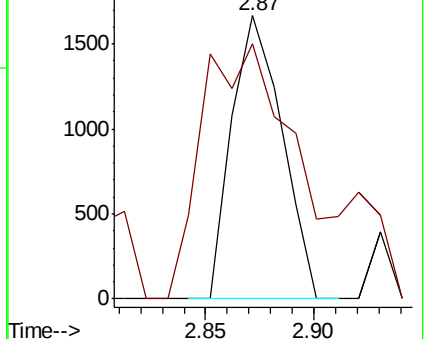
74 100

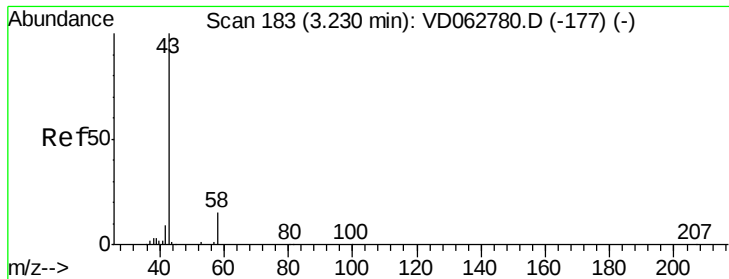
45 90.0 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: Below Cal

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

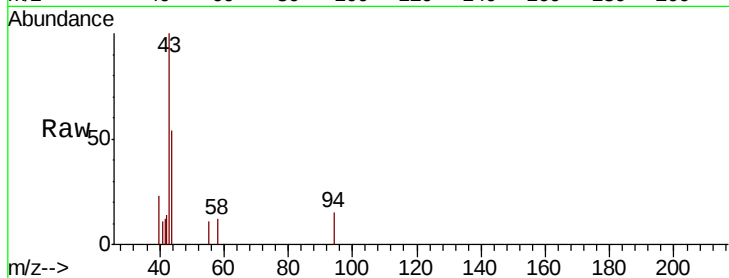
TOP-SOIL-07-01-19

Tot Ion: 43 Resp: 9776

Ion Ratio Lower Upper

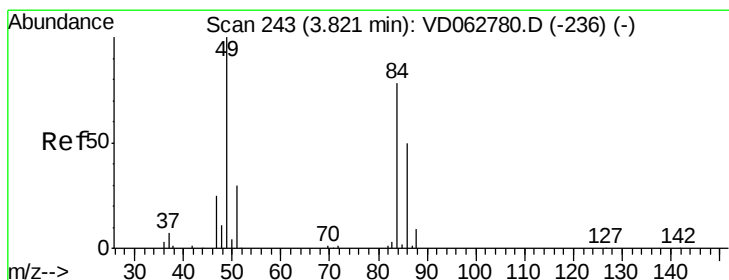
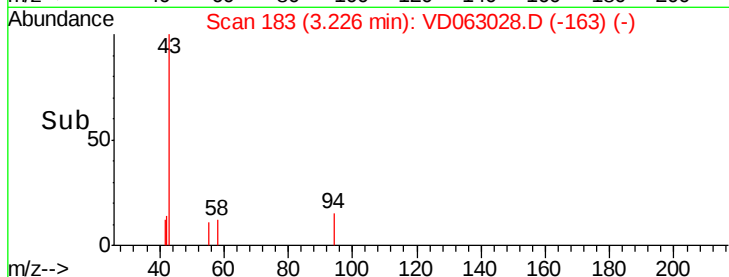
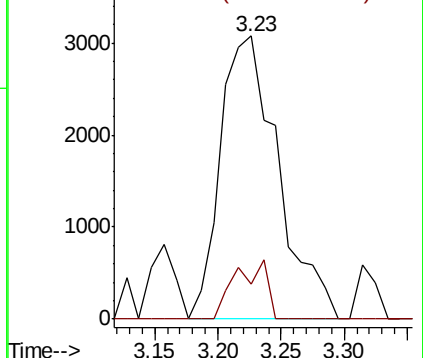
43 100

58 12.3 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.504 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.01 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Tgt Ion: 84 Resp: 17603

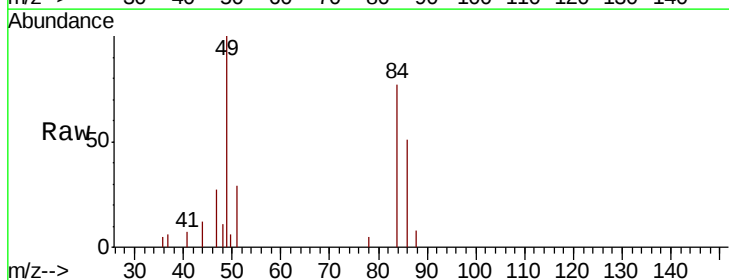
Ion Ratio Lower Upper

84 100

49 130.6 102.9 154.3

51 38.1 31.2 46.8

86 66.7 51.4 77.2

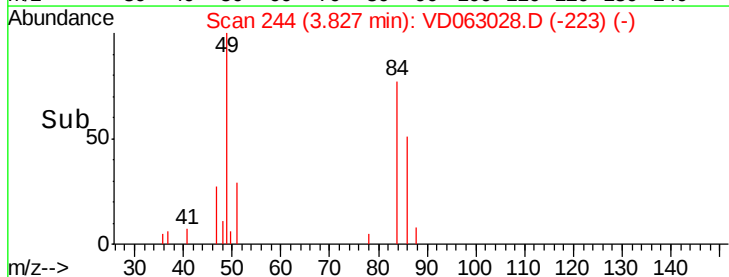
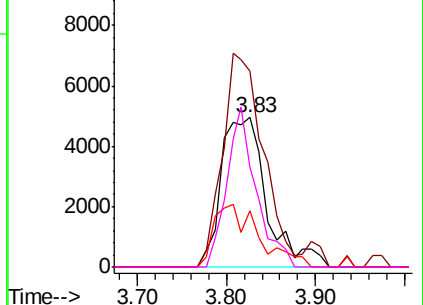


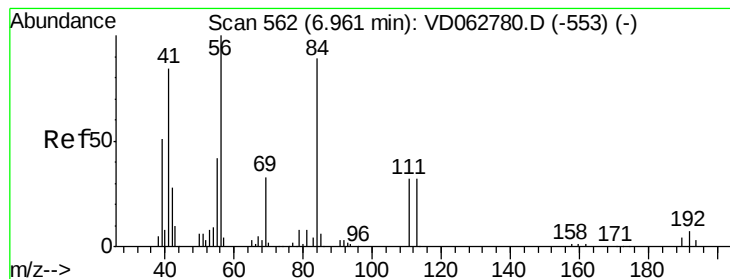
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 2.127 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.08 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :
MSVOA_D
ClientSampleId :
TOP-SOIL-07-01-19

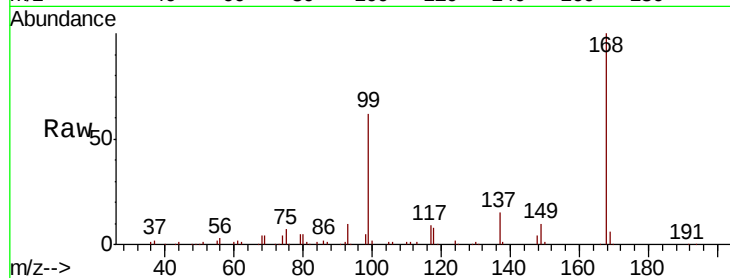
Tot Ion: 56 Resp: 18405

Ion Ratio Lower Upper

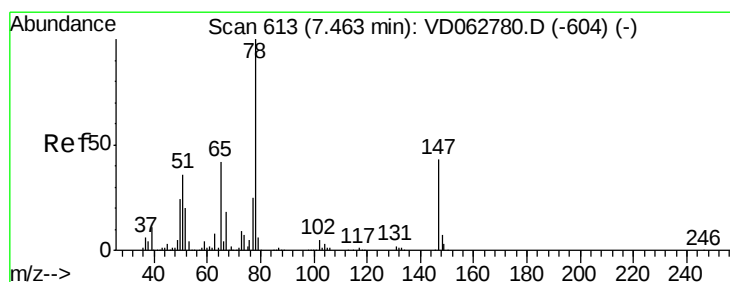
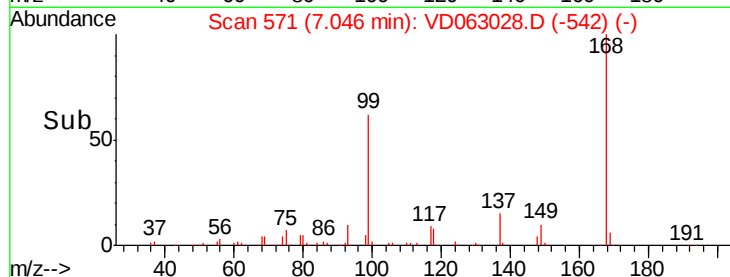
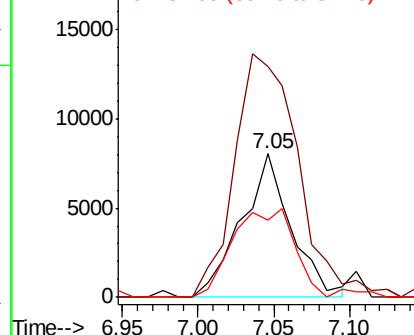
56 100

69 161.2 26.6 39.8#

84 53.6 75.5 113.3#



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



#33

1,2-Dichloroethane-d4

Concen: 47.978 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063028.D

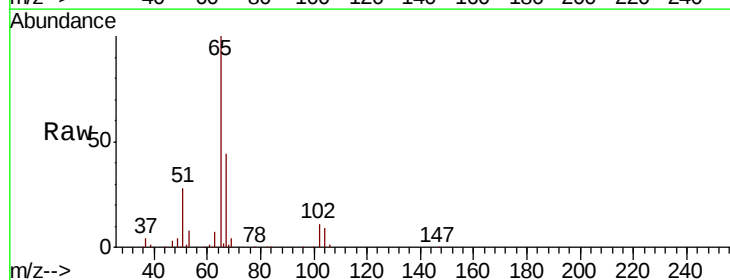
Acq: 3 Jul 2019 16:58

Tgt Ion: 65 Resp: 442177

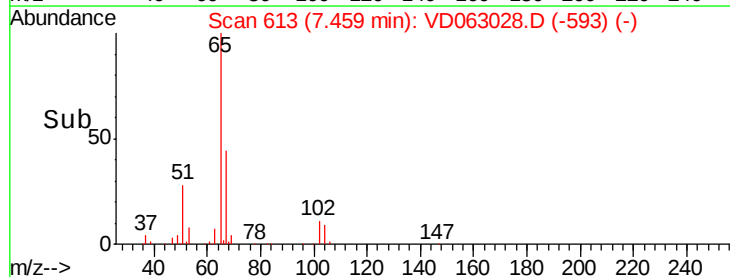
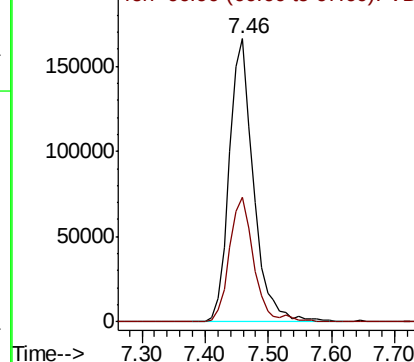
Ion Ratio Lower Upper

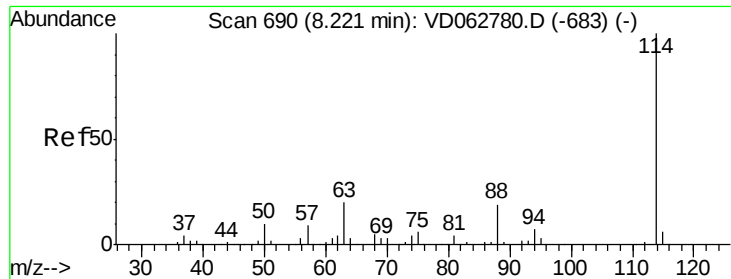
65 100

67 43.9 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

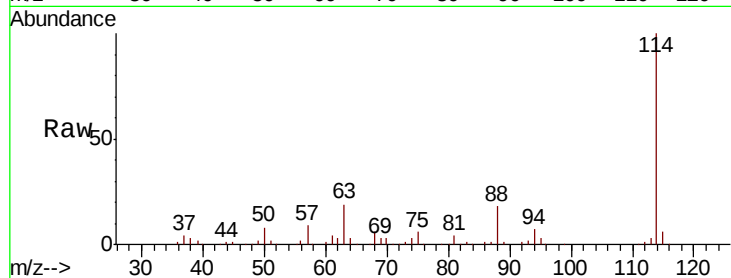




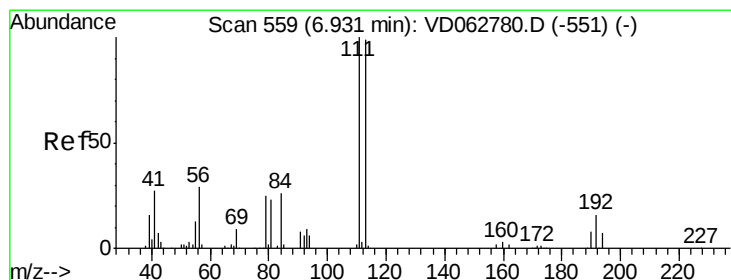
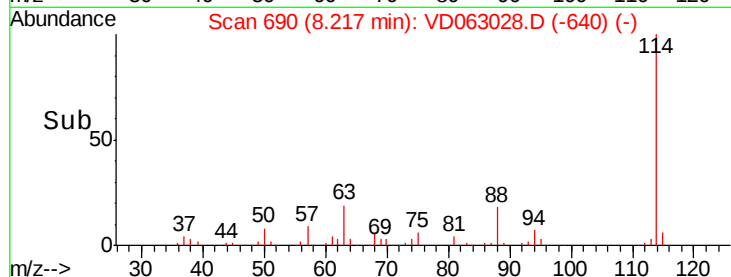
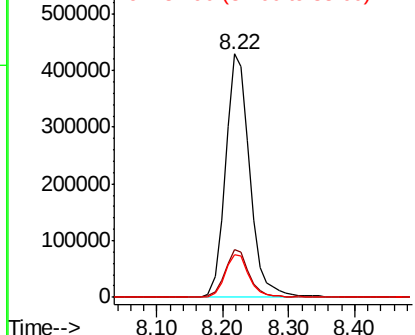
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD063028.D
 Acq: 3 Jul 2019 16:58

Instrument :
 MSVOA_D
 ClientSampleId :
 TOP-SOIL-07-01-19

Tot Ion:114 Resp: 1103462
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 17.7 0.0 38.8

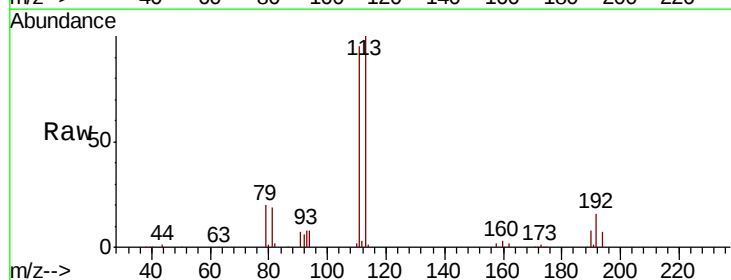


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

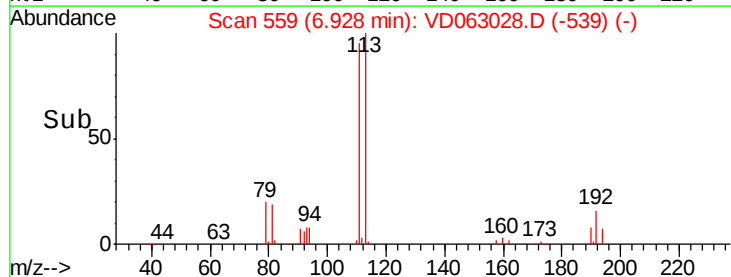
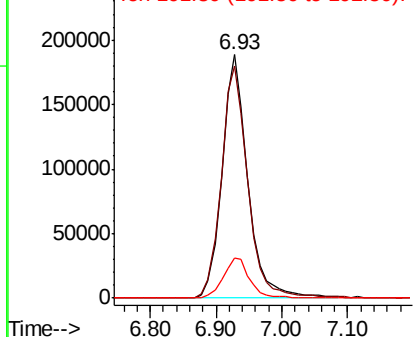


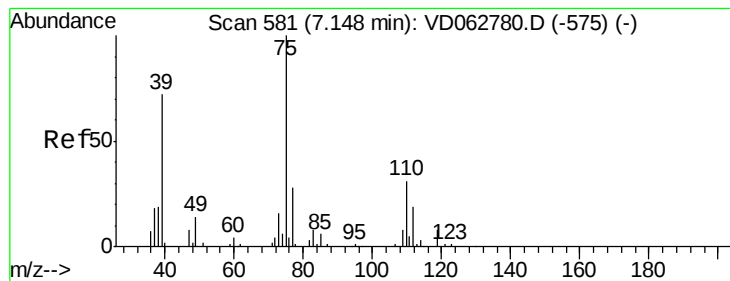
#35
 Dibromofluoromethane
 Concen: 55.070 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.00 min
 Lab File: VD063028.D
 Acq: 3 Jul 2019 16:58

Tgt Ion:113 Resp: 512394
 Ion Ratio Lower Upper
 113 100
 111 95.4 81.2 121.8
 192 16.4 12.9 19.3



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: 6.090 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

TOP-SOIL-07-01-19

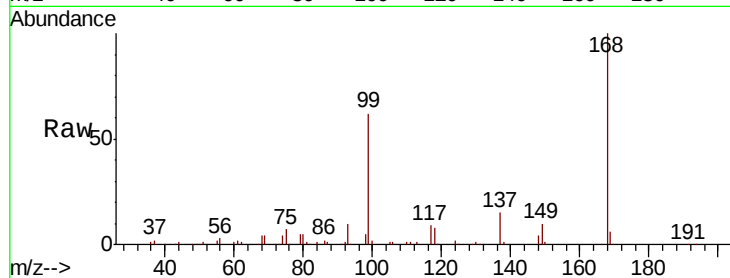
Tot Ion: 75 Resp: 63614

Ion Ratio Lower Upper

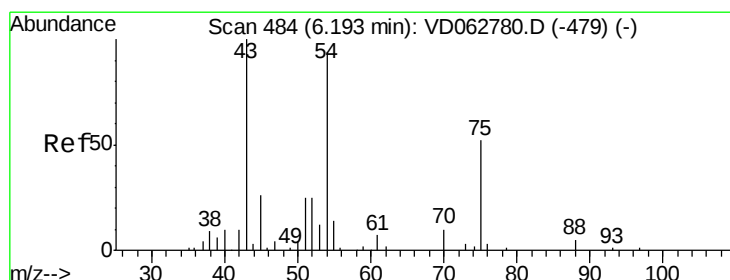
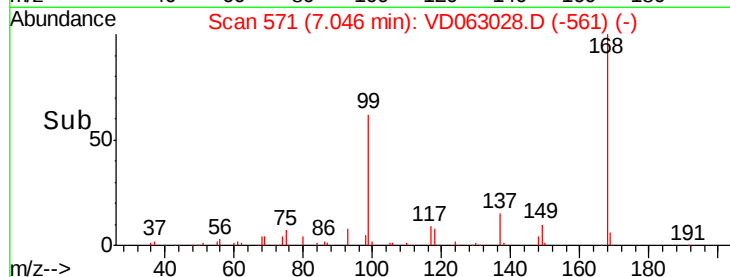
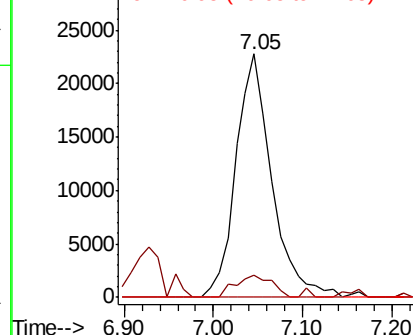
75 100

110 8.9 15.0 45.1#

77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.18 min Scan# 483

Delta R.T. -0.01 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

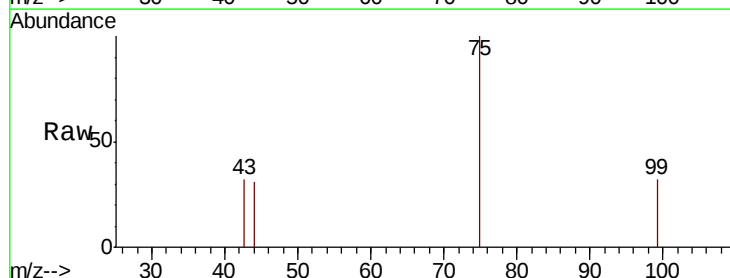
Tgt Ion: 43 Resp: 190

Ion Ratio Lower Upper

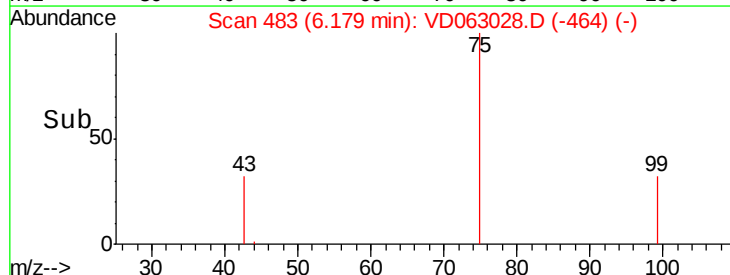
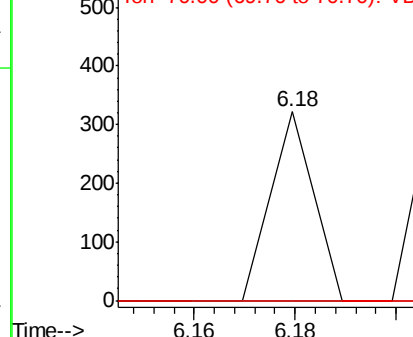
43 100

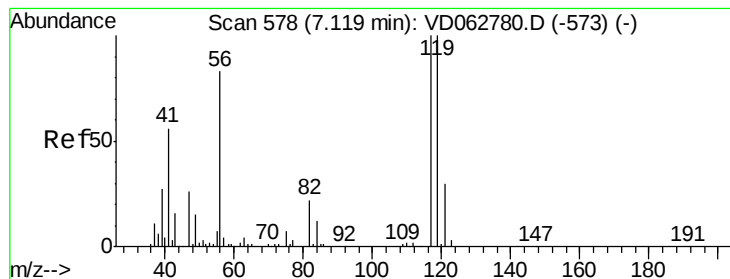
61 0.0 11.6 17.4#

70 0.0 6.4 9.6#



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





#38

Carbon Tetrachloride

Concen: 5.296 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

TOP-SOIL-07-01-19

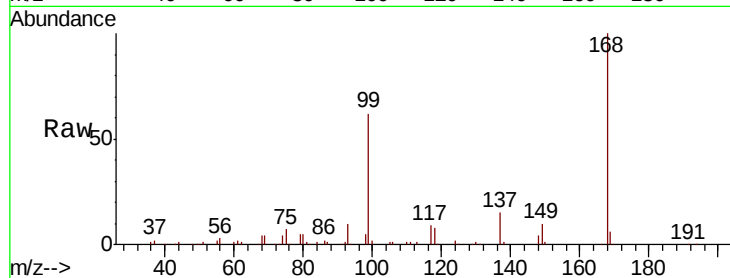
Tot Ion:117 Resp: 83198

Ion Ratio Lower Upper

117 100

119 2.3 75.4 113.2#

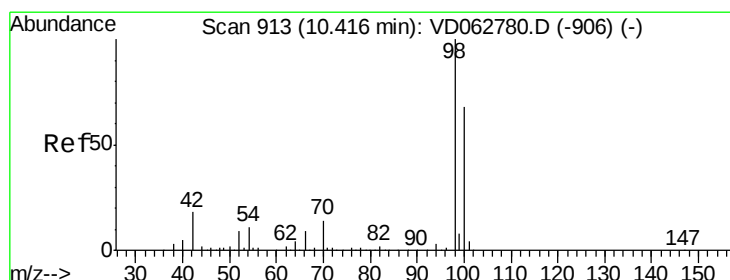
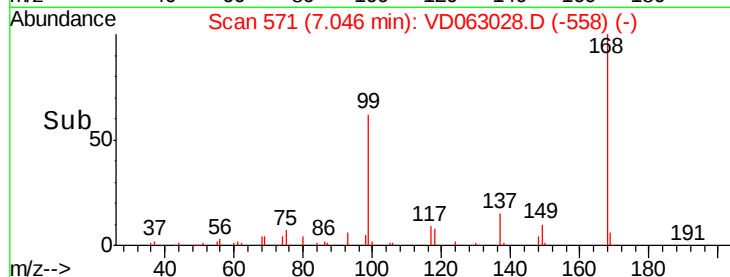
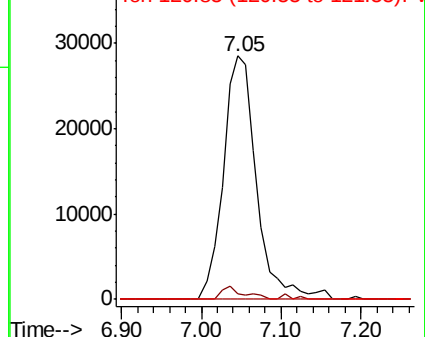
121 0.0 22.3 33.5#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 49.556 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD063028.D

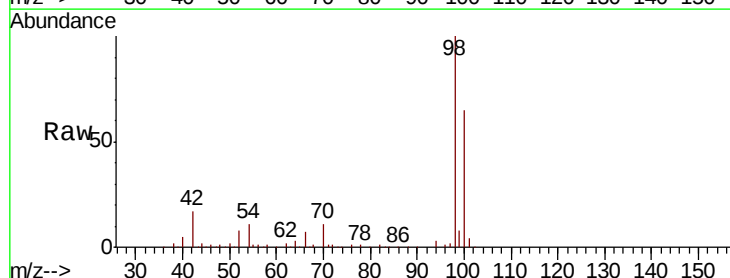
Acq: 3 Jul 2019 16:58

Tgt Ion: 98 Resp: 1003536

Ion Ratio Lower Upper

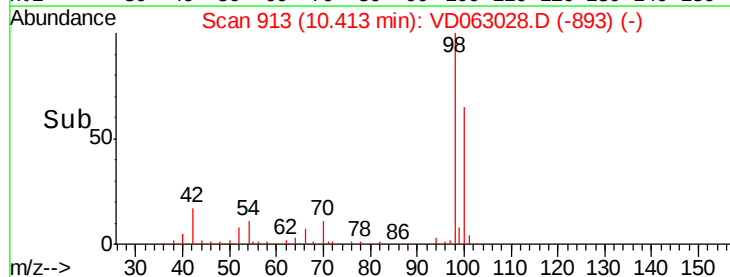
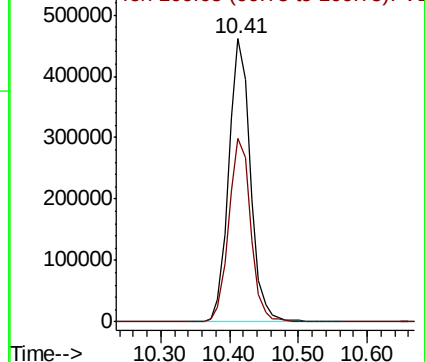
98 100

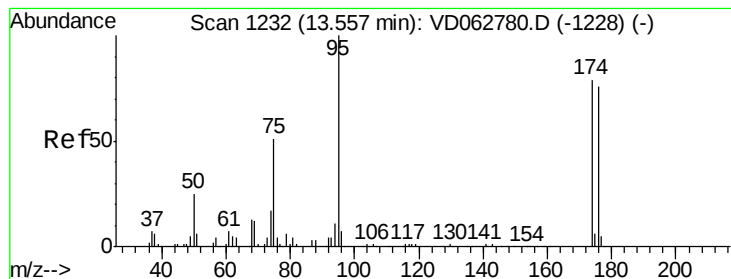
100 64.9 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 42.601 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :

MSVOA_D

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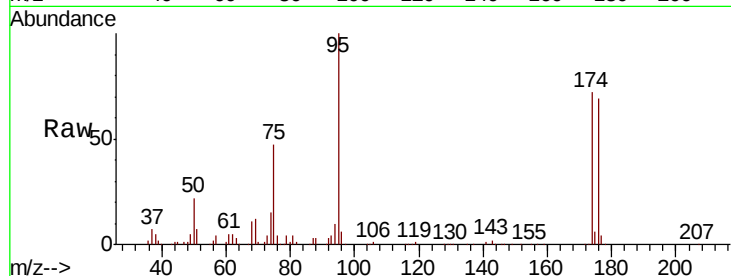
Tot Ion: 95 Resp: 392272

Ion Ratio Lower Upper

95 100

174 71.8 0.0 158.0

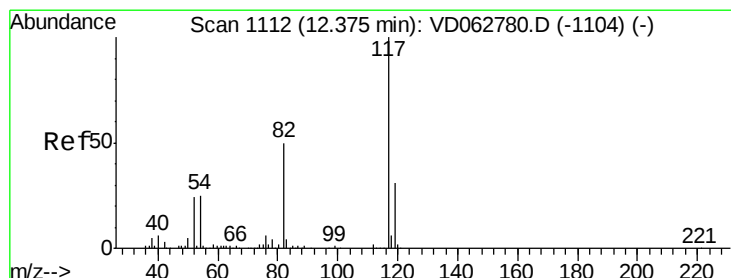
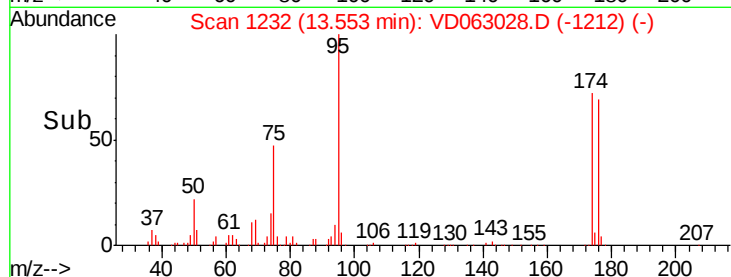
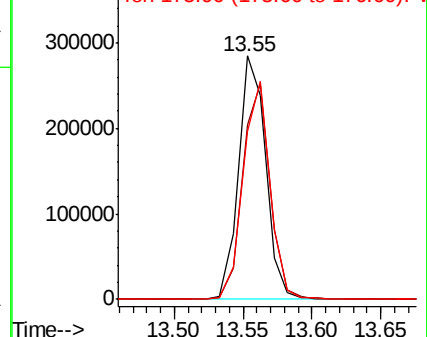
176 69.0 0.0 151.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

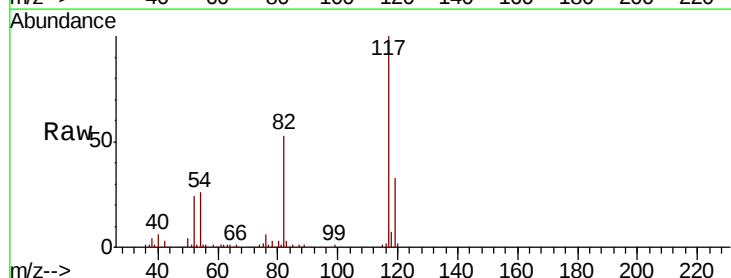
Tgt Ion: 117 Resp: 828320

Ion Ratio Lower Upper

117 100

82 52.9 40.4 60.6

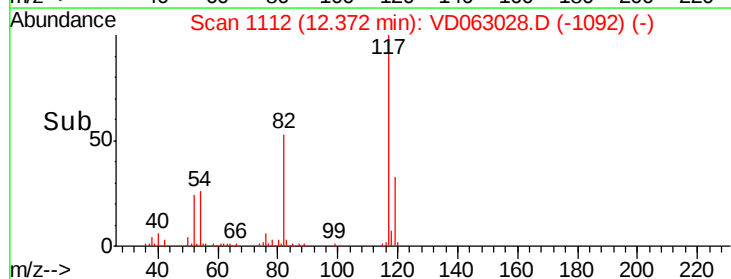
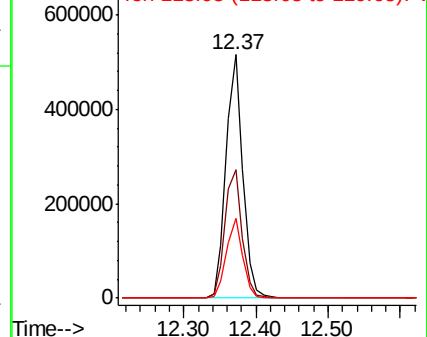
119 32.6 25.2 37.8

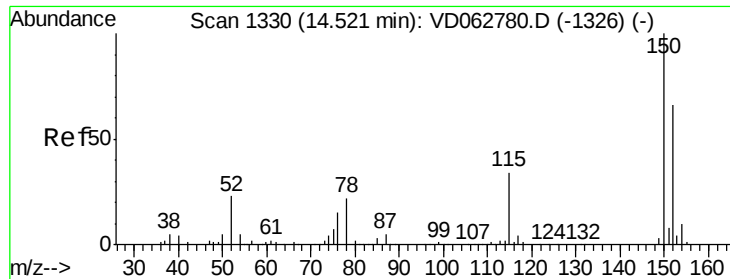


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

Instrument :

MSVOA_D

ClientSampleId :

TOP-SOIL-07-01-19

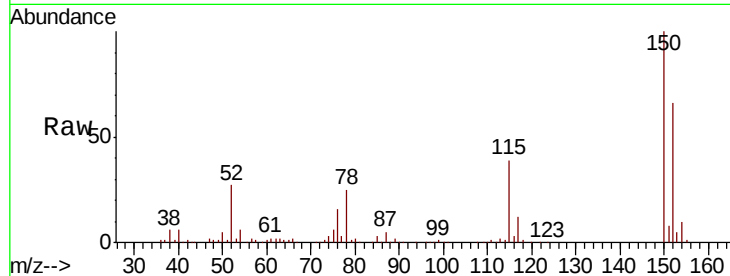
Tot Ion:152 Resp: 357755

Ion Ratio Lower Upper

152 100

115 59.2 29.2 87.6

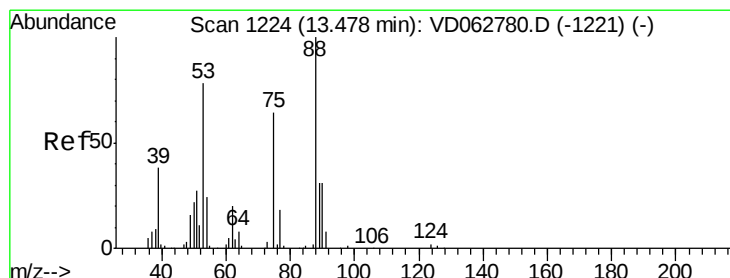
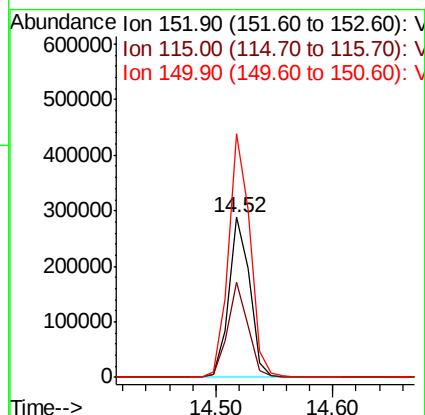
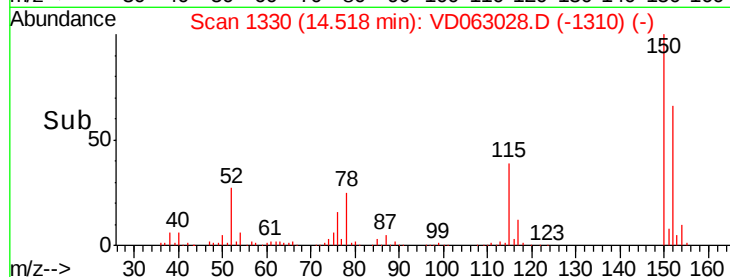
150 152.4 0.0 305.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 166.964 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063028.D

Acq: 3 Jul 2019 16:58

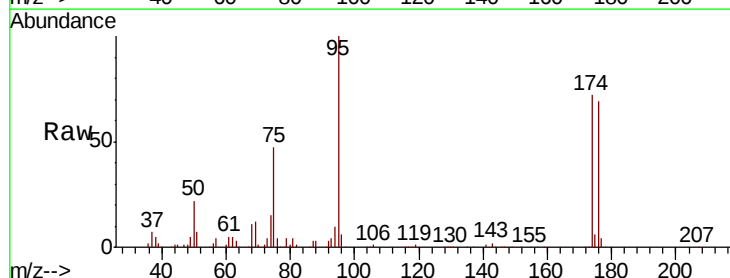
Tgt Ion: 75 Resp: 180725

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

