

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064628.D
 Acq On : 27 Dec 2019 06:22
 Operator : VA/SY
 Sample : K6439-08
 Misc : 4.22G/5.00ml/MSVOA D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF005-01

Quant Time: Dec 27 07:47:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	511412	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	779853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	678806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	310627	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	228277	50.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.24%	
35) Dibromofluoromethane	7.92	113	235952	49.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.64%	
50) Toluene-d8	10.34	98	928468	50.67	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.64	95	278347	48.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.08%	

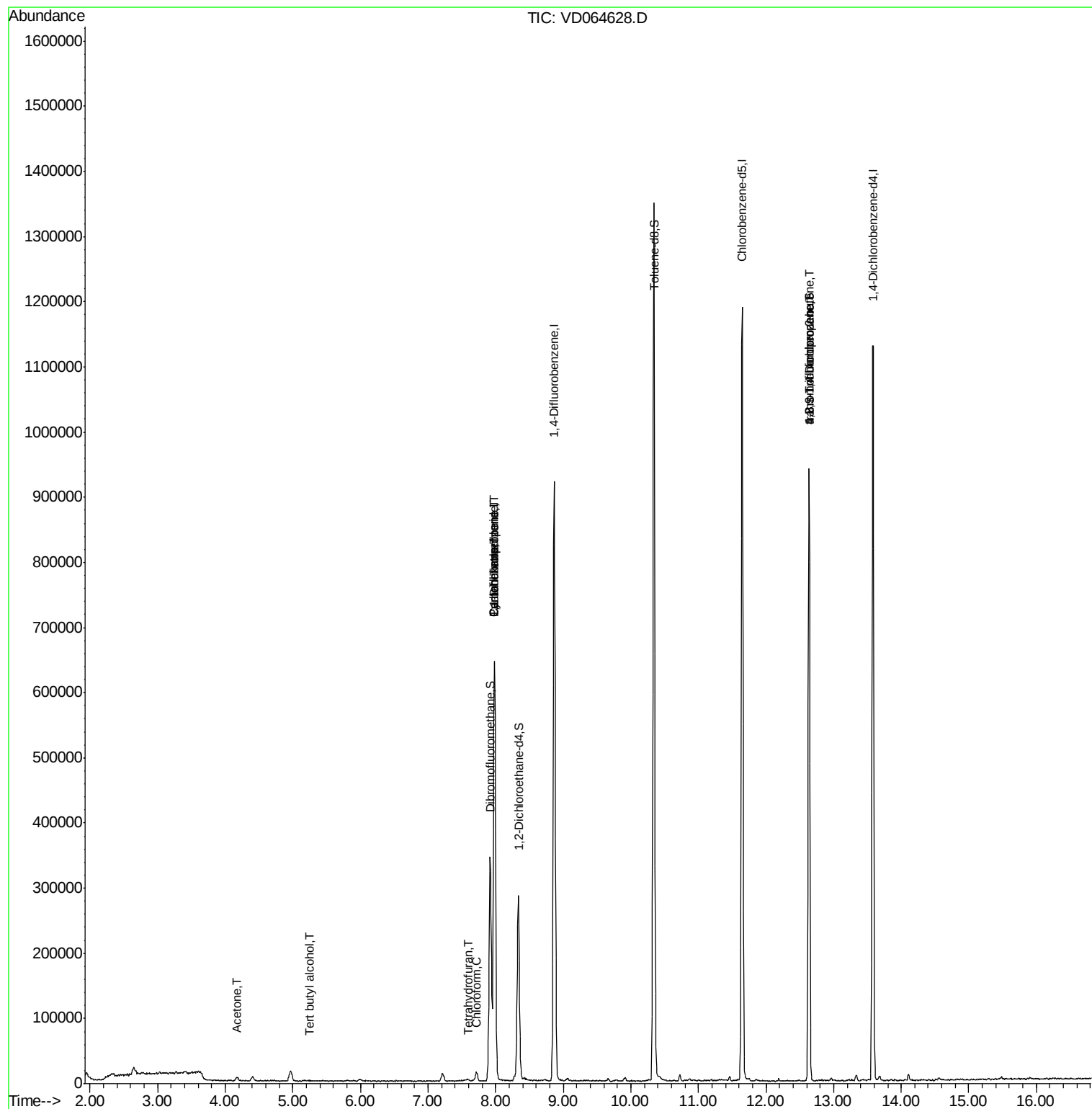
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	460	1.780	ug/l #	70
16) Acetone	4.17	43	8970	12.513	ug/l #	79
20) Methylene Chloride	4.97	84	11275	Below Cal	#	82
29) Tetrahydrofuran	7.59	42	1095	1.420	ug/l #	73
30) Chloroform	7.72	83	12518	1.420	ug/l #	83
31) Cyclohexane	7.98	56	11378	1.353	ug/l #	38
36) 1,1-Dichloropropene	7.98	75	37061	4.937	ug/l #	50
38) Carbon Tetrachloride	7.98	117	46826	5.851	ug/l #	17
76) 1,2,3-Trichloropropane	12.64	75	145771	59.428	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	145771	124.292	ug/l #	10

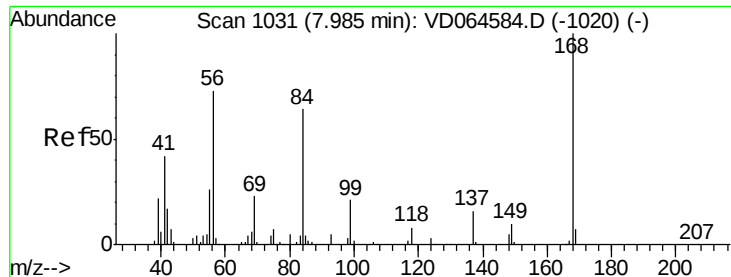
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleId :

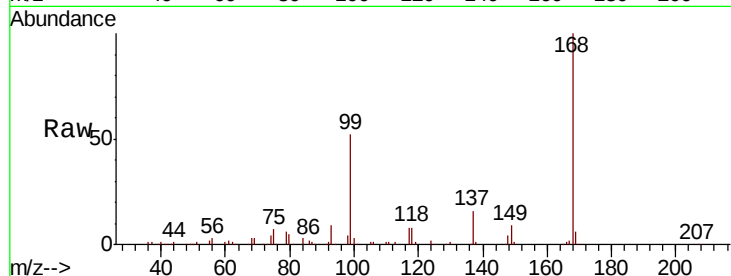
LIED-BF005-01

Tot Ion:168 Resp: 511412

Ion Ratio Lower Upper

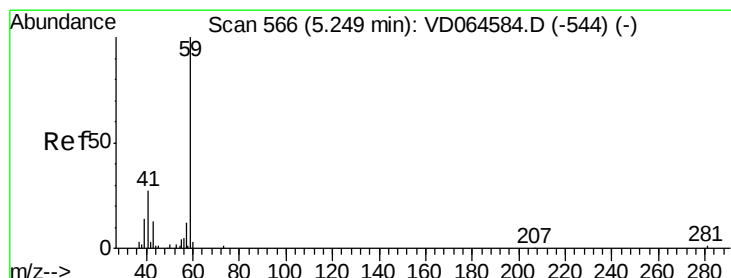
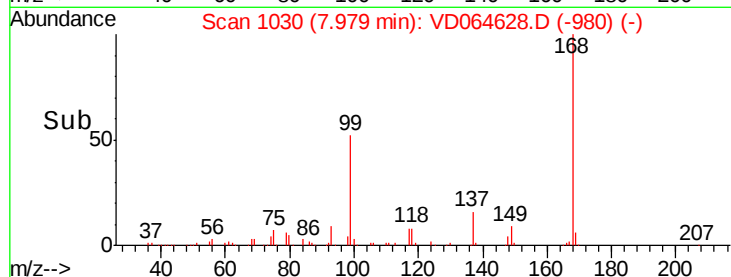
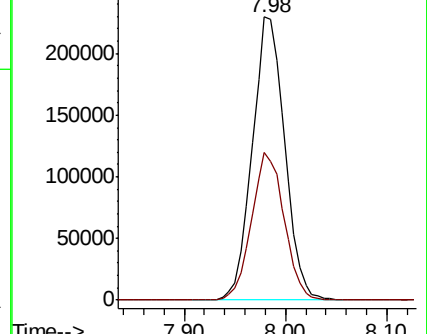
168 100

99 52.0 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.780 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD064628.D

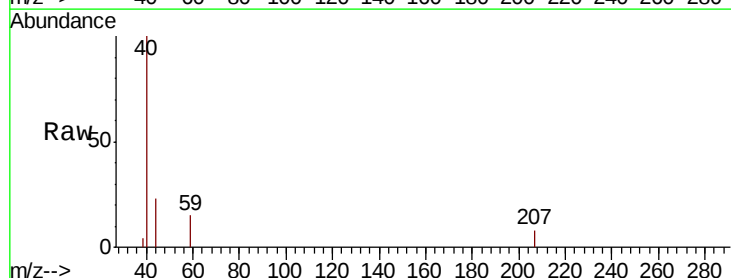
Acq: 27 Dec 2019 06:22

Tgt Ion: 59 Resp: 460

Ion Ratio Lower Upper

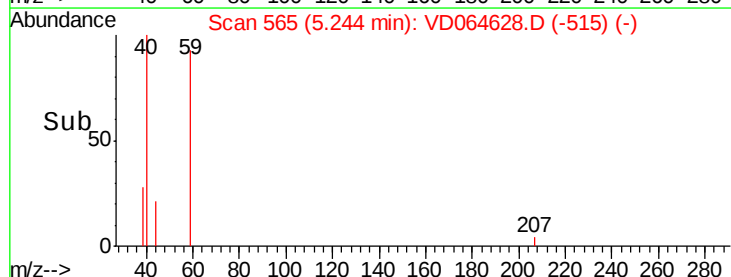
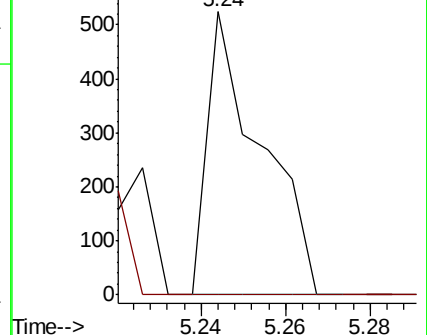
59 100

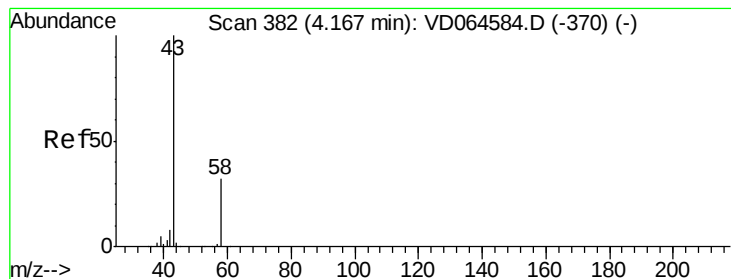
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 12.513 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleId :

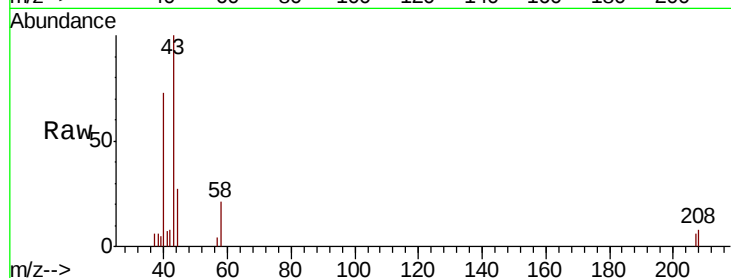
LIED-BF005-01

Tot Ion: 43 Resp: 8970

Ion Ratio Lower Upper

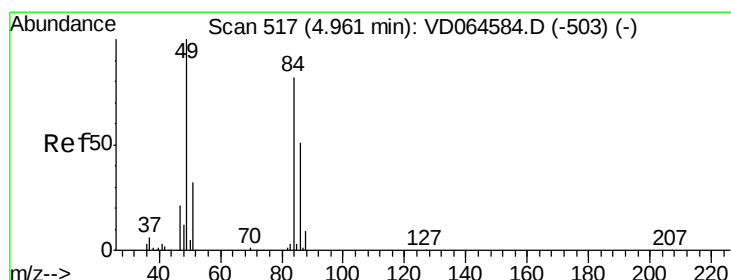
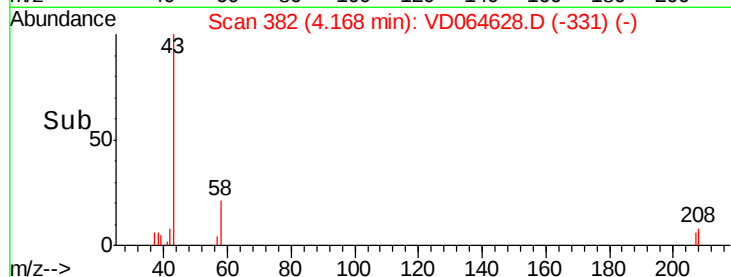
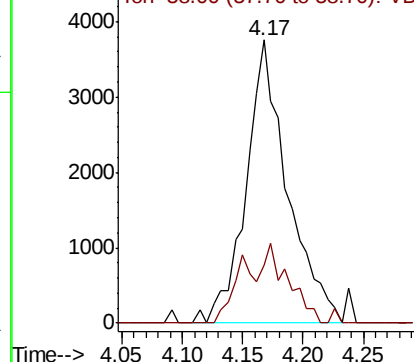
43 100

58 20.6 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Tgt Ion: 84 Resp: 11275

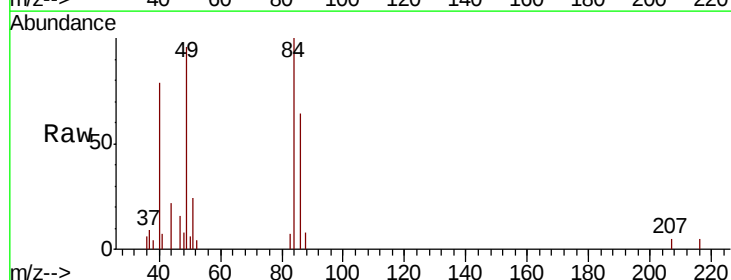
Ion Ratio Lower Upper

84 100

49 96.5 97.2 145.8#

51 24.3 31.4 47.0#

86 64.5 49.3 73.9

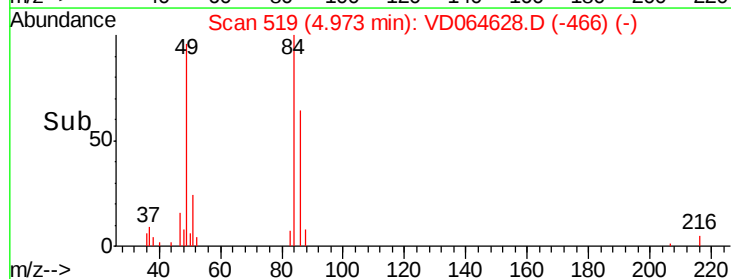
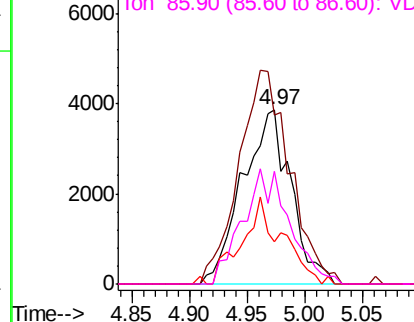


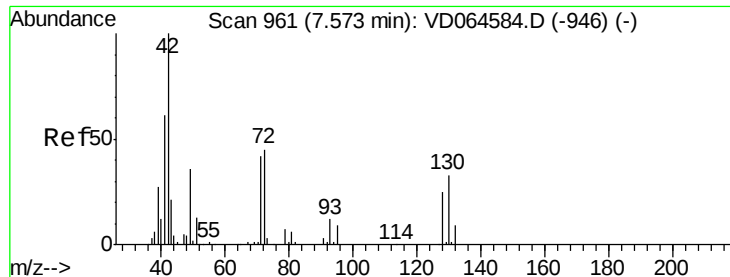
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

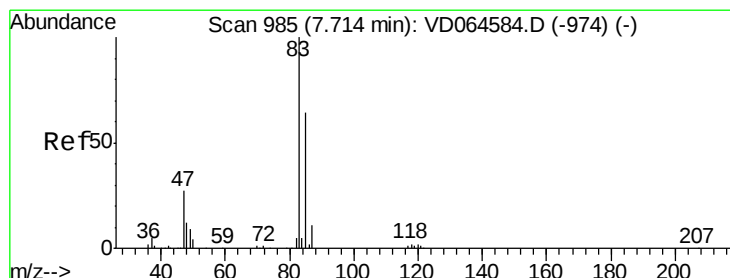
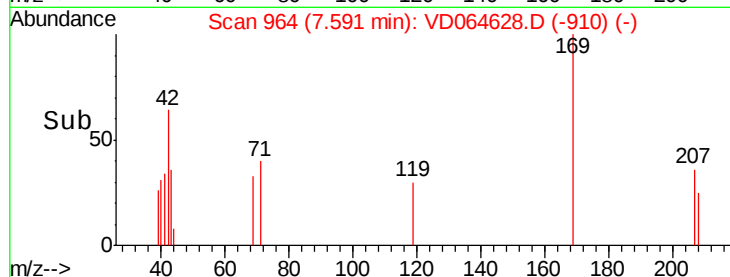
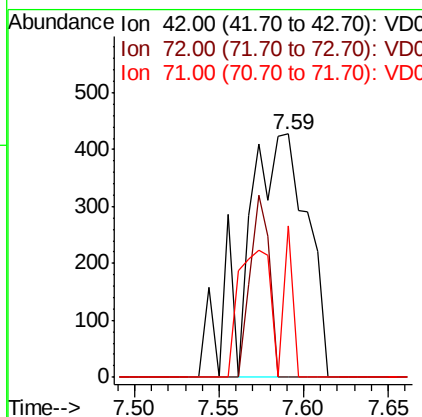
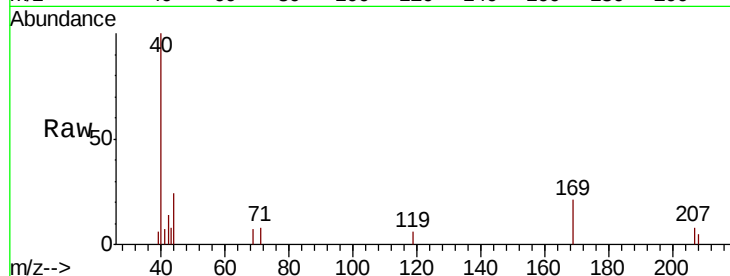




#29
Tetrahydrofuran
Concen: 1.420 ug/l
RT: 7.59 min Scan# 964
Delta R.T. 0.02 min
Lab File: VD064628.D
Acq: 27 Dec 2019 06:22

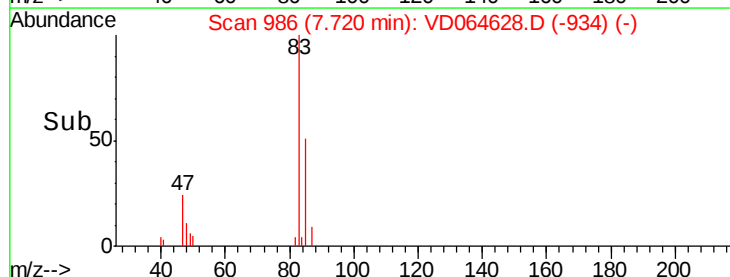
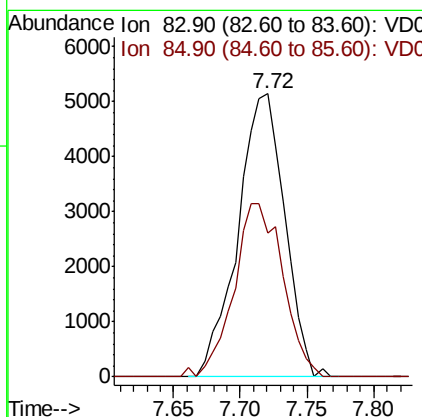
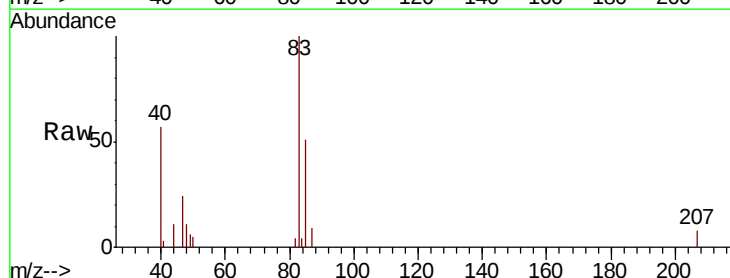
Instrument :
MSVOA_D
ClientSampleId :
LIED-BF005-01

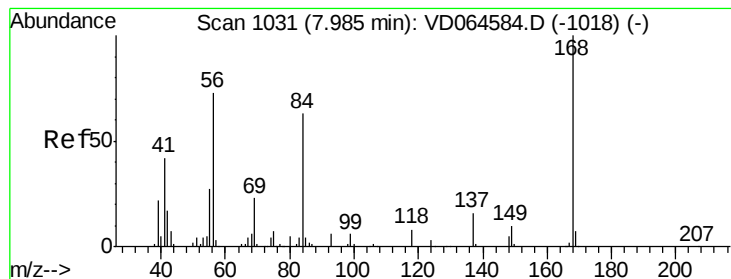
Tot Ion: 42 Resp: 1095
Ion Ratio Lower Upper
42 100
72 23.6 35.0 52.4#
71 26.8 32.9 49.3#



#30
Chloroform
Concen: 1.420 ug/l
RT: 7.72 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD064628.D
Acq: 27 Dec 2019 06:22

Tgt Ion: 83 Resp: 12518
Ion Ratio Lower Upper
83 100
85 50.6 51.1 76.7#





#31

Cyclohexane

Concen: 1.353 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleID :

LIED-BF005-01

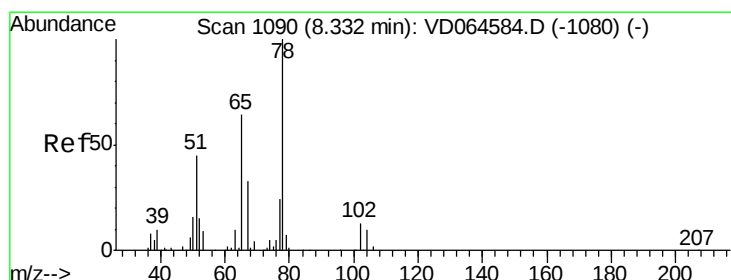
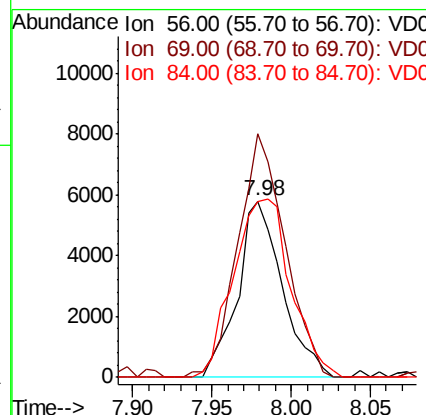
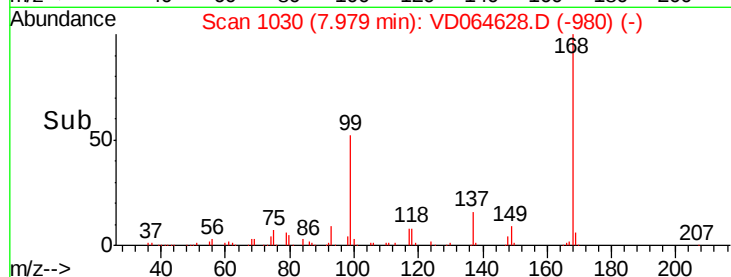
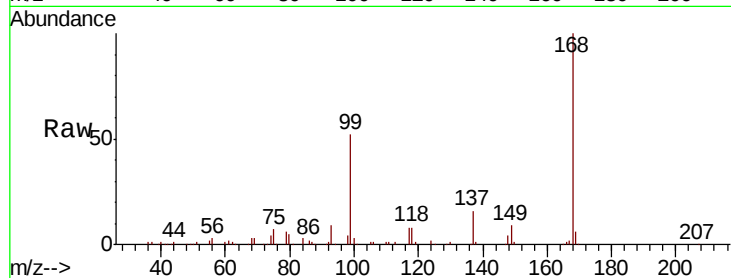
Tot Ion: 56 Resp: 11378

Ion Ratio Lower Upper

56 100

69 138.3 24.7 37.1#

84 99.6 69.4 104.2



#33

1,2-Dichloroethane-d4

Concen: 50.621 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064628.D

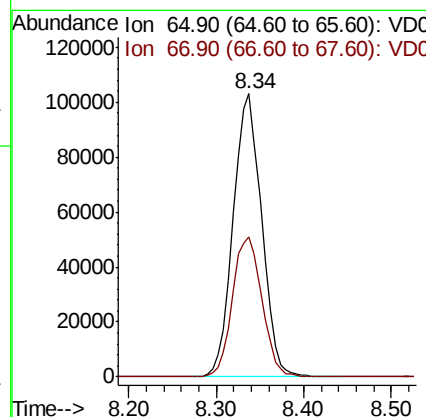
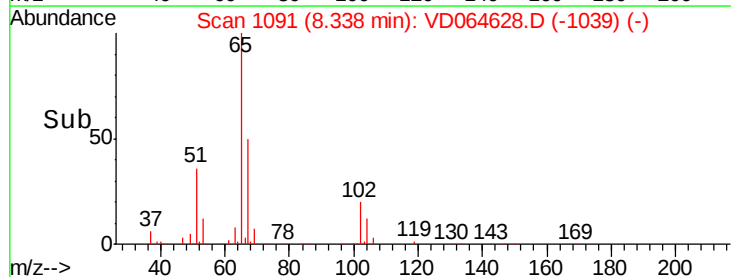
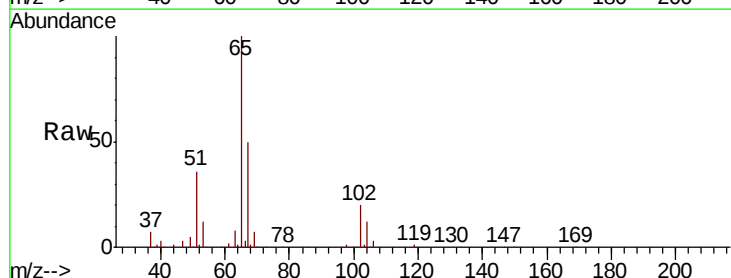
Acq: 27 Dec 2019 06:22

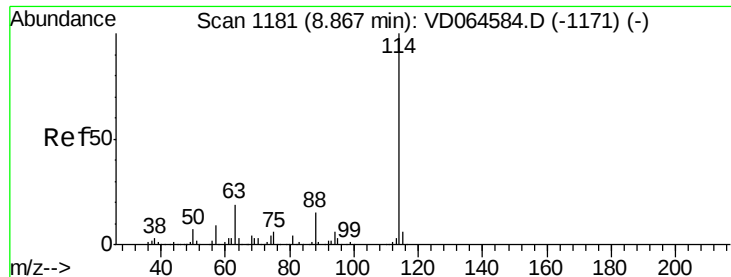
Tgt Ion: 65 Resp: 228277

Ion Ratio Lower Upper

65 100

67 51.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF005-01

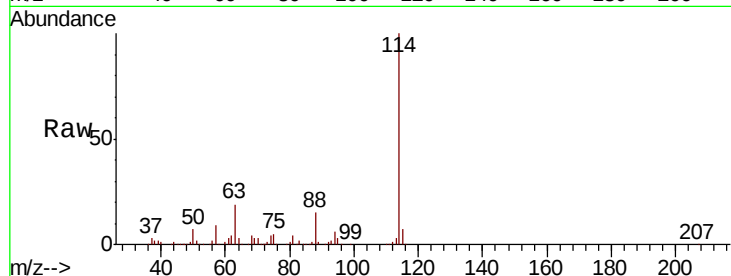
Tot Ion:114 Resp: 779853

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.0

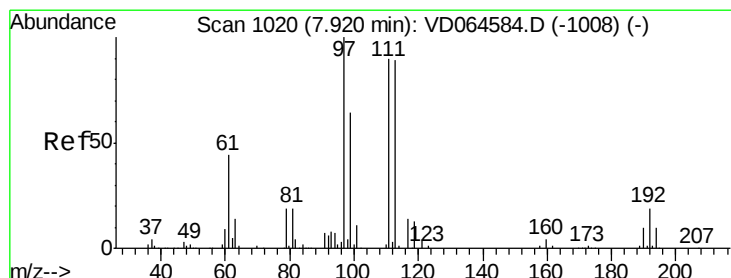
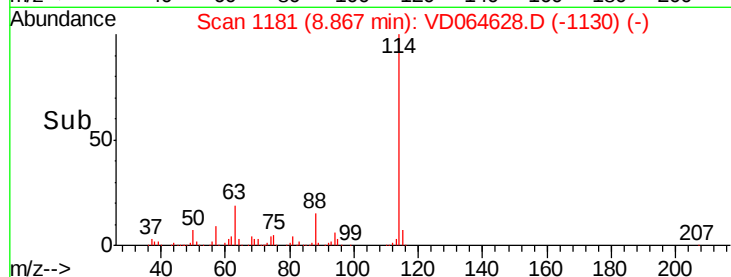
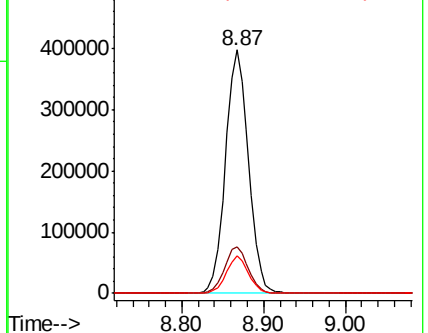
88 15.4 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 49.316 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

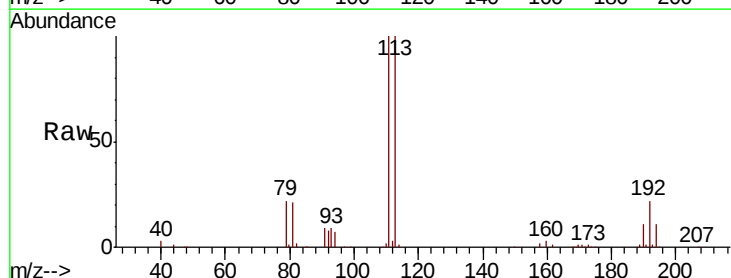
Tgt Ion:113 Resp: 235952

Ion Ratio Lower Upper

113 100

111 103.3 80.6 121.0

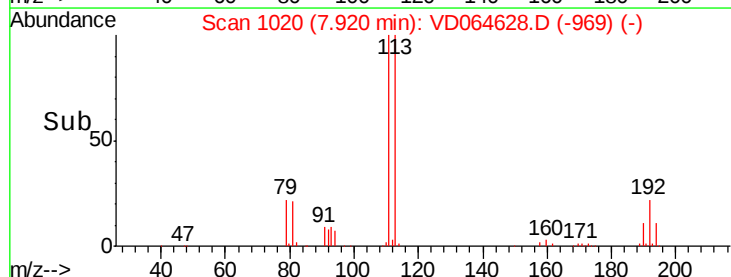
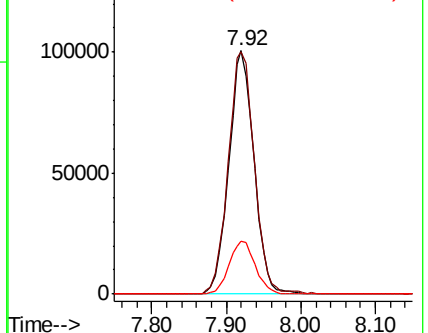
192 22.4 17.9 26.9

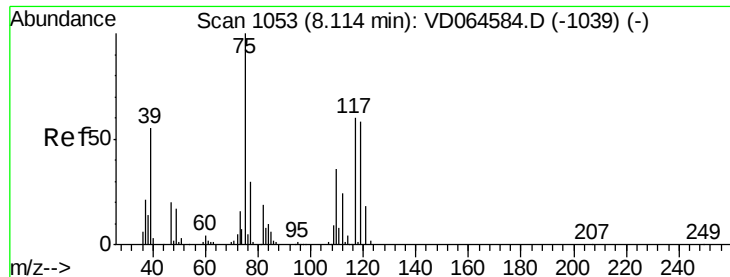


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.937 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF005-01

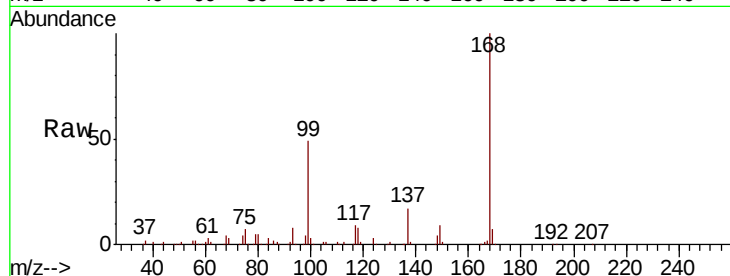
Tot Ion: 75 Resp: 37061

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VD064584.D (-1039) (-)

Ion 109.90 (109.60 to 110.60): VD064584.D (-1039) (-)

Ion 76.90 (76.60 to 77.60): VD064584.D (-1039) (-)

7.98

15000

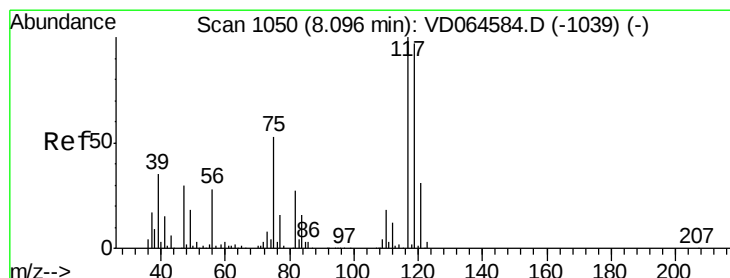
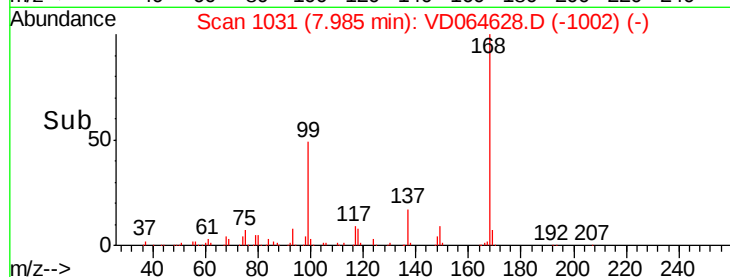
10000

5000

0

7.90 8.00 8.10

Time-->



#38

Carbon Tetrachloride

Concen: 5.851 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

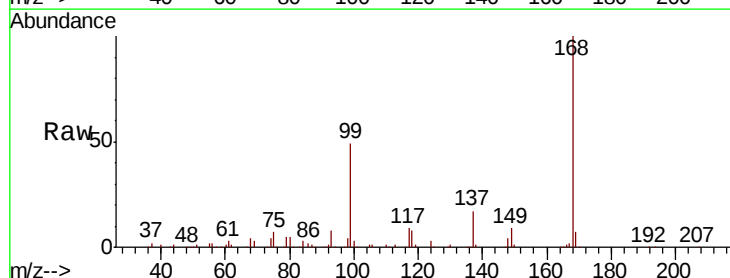
Tgt Ion: 117 Resp: 46826

Ion Ratio Lower Upper

117 100

119 6.8 77.3 115.9#

121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VD064584.D (-1039) (-)

Ion 118.80 (118.50 to 119.50): VD064584.D (-1039) (-)

Ion 120.80 (120.50 to 121.50): VD064584.D (-1039) (-)

7.98

25000

20000

15000

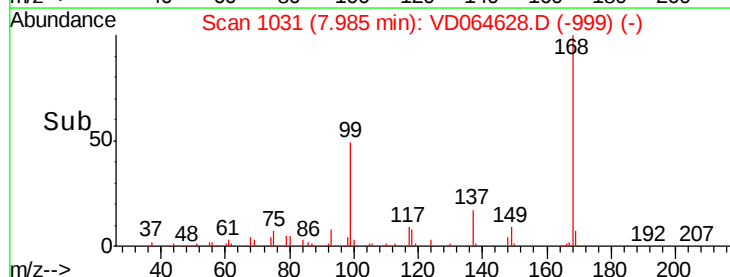
10000

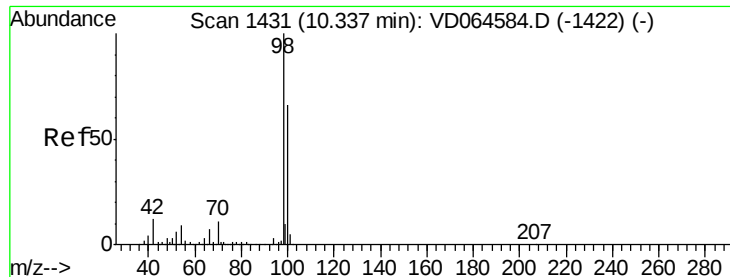
5000

0

7.90 7.95 8.00 8.05

Time-->





#50

Toluene-d8

Concen: 50.669 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleId :

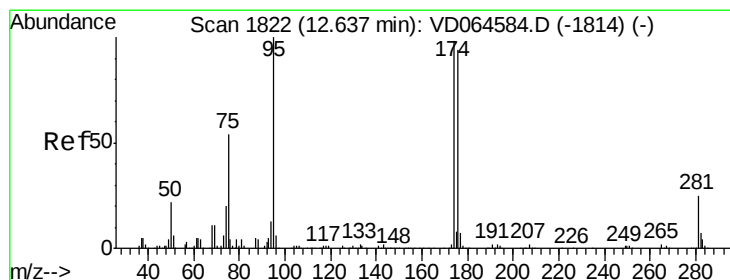
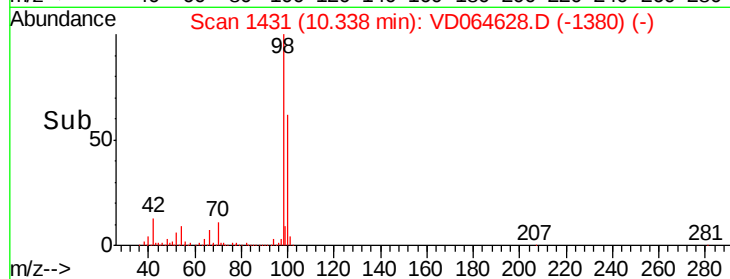
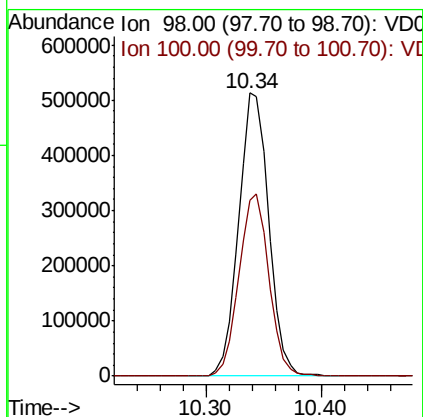
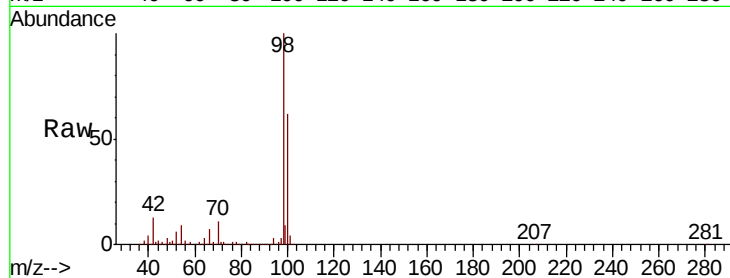
LIED-BF005-01

Tot Ion: 98 Resp: 928468

Ion Ratio Lower Upper

98 100

100 64.3 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 48.038 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

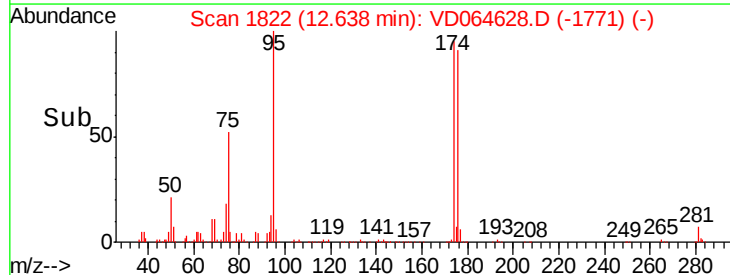
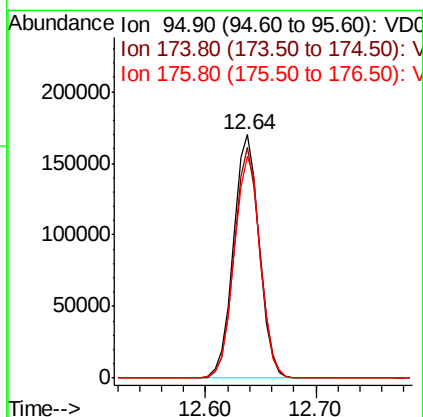
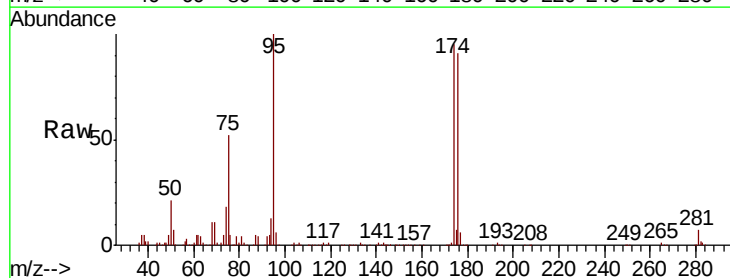
Tgt Ion: 95 Resp: 278347

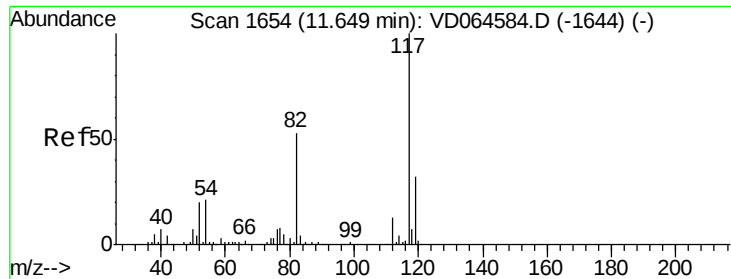
Ion Ratio Lower Upper

95 100

174 94.6 0.0 193.2

176 92.7 0.0 184.2

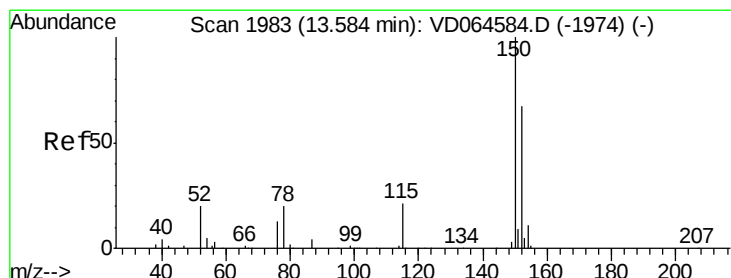
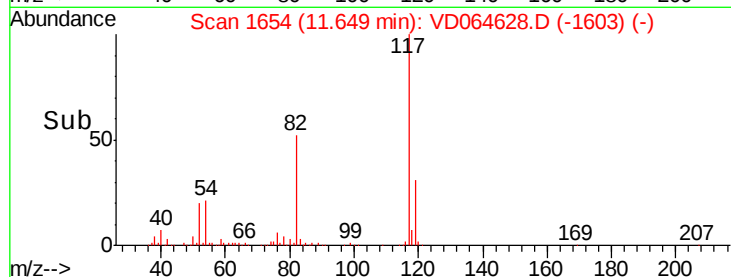
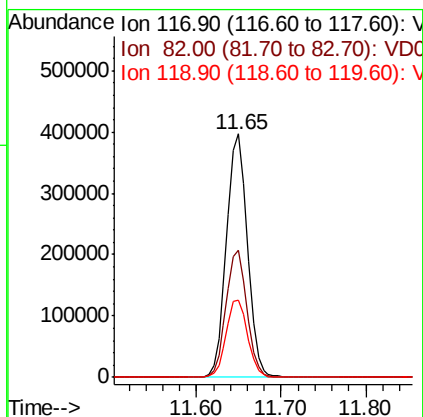
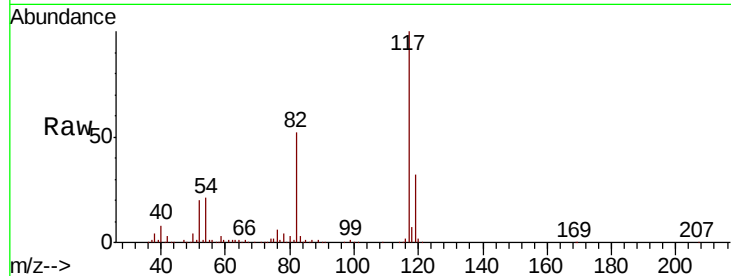




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064628.D
Acq: 27 Dec 2019 06:22

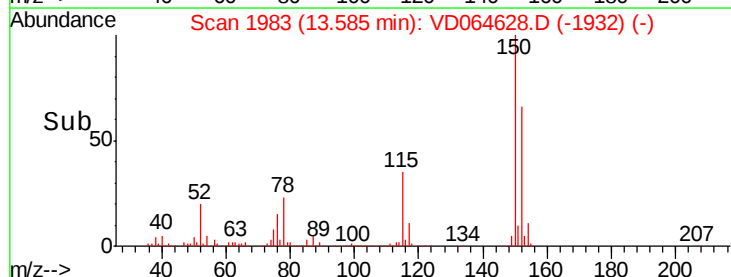
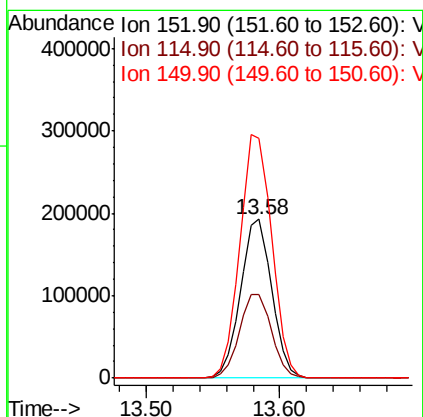
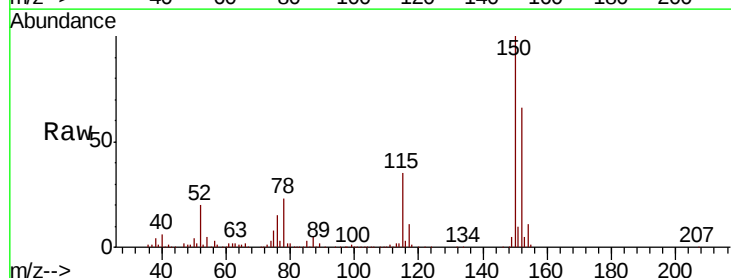
Instrument :
MSVOA_D
ClientSampleId :
LIED-BF005-01

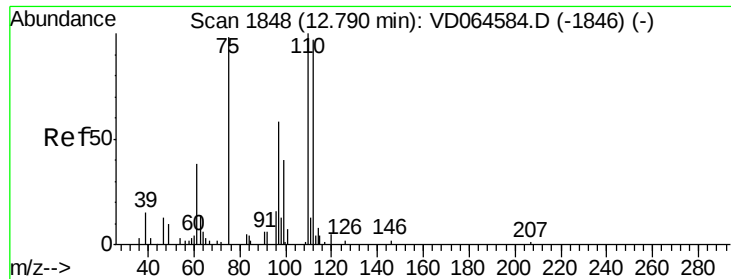
Tot Ion:117 Resp: 678806
Ion Ratio Lower Upper
117 100
82 52.2 42.2 63.4
119 31.6 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064628.D
Acq: 27 Dec 2019 06:22

Tgt Ion:152 Resp: 310627
Ion Ratio Lower Upper
152 100
115 54.3 27.8 83.4
150 157.2 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 59.428 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

Instrument :

MSVOA_D

ClientSampleId :

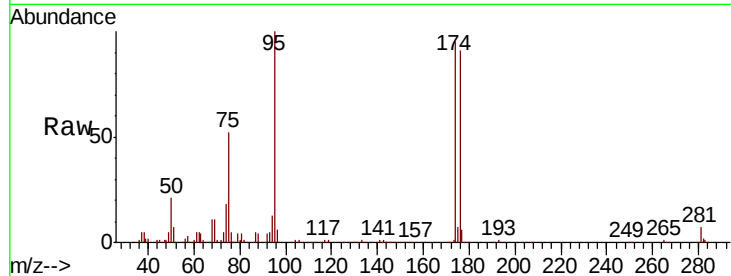
LIED-BF005-01

Tot Ion: 75 Resp: 145771

Ion Ratio Lower Upper

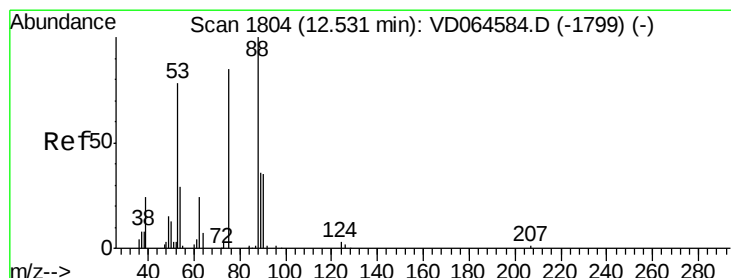
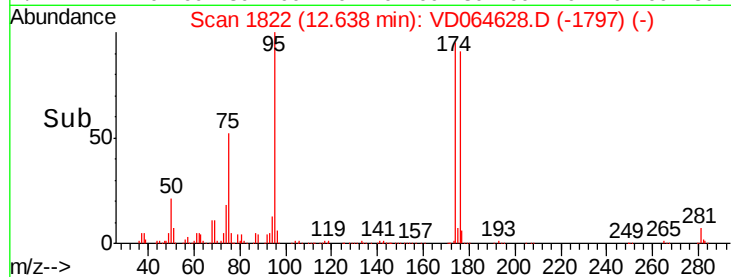
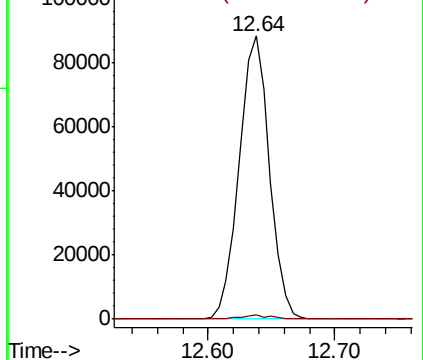
75 100

77 1.4 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: 124.292 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064628.D

Acq: 27 Dec 2019 06:22

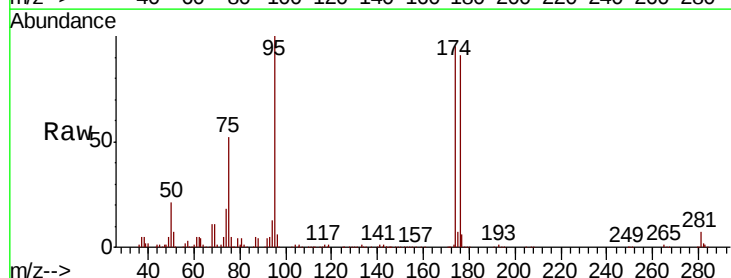
Tgt Ion: 75 Resp: 145771

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

89 0.0 38.3 57.5#



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

