

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064626.D
 Acq On : 27 Dec 2019 05:24
 Operator : VA/SY
 Sample : K6439-06
 Misc : 4.94G/5.00ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF003-01

Quant Time: Dec 27 06:21:31 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	7.99	168	129788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	199915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	193505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	96179	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	95572	83.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	167.02%	
35) Dibromofluoromethane	7.92	113	72746	59.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.62%	
50) Toluene-d8	10.34	98	240617	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	
62) 4-Bromofluorobenzene	12.64	95	81682	54.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.98%	

Target Compounds

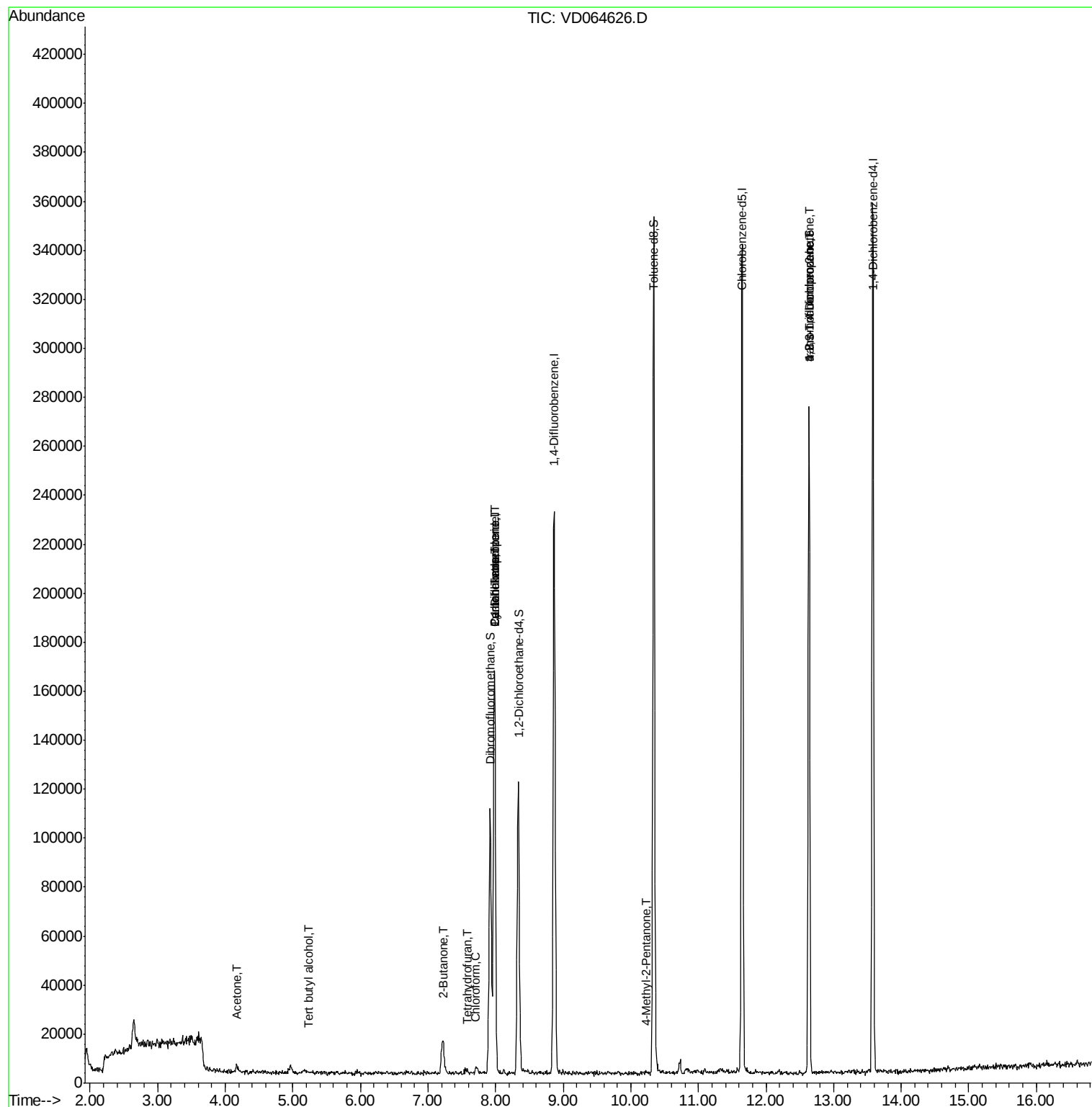
					Qvalue	
11) Tert butyl alcohol	5.24	59	354	5.397	ug/l #	70
16) Acetone	4.17	43	4211	19.630	ug/l #	82
20) Methylene Chloride	4.97	84	2463	Below Cal	#	77
25) 2-Butanone	7.23	43	1390	4.419	ug/l #	85
29) Tetrahydrofuran	7.59	42	1080	5.521	ug/l #	67
30) Chloroform	7.70	83	2698	1.206	ug/l #	71
31) Cyclohexane	7.98	56	2449	1.148	ug/l #	24
36) 1,1-Dichloropropene	7.98	75	9956	5.174	ug/l #	54
38) Carbon Tetrachloride	7.98	117	12895	6.285	ug/l #	17
51) 4-Methyl-2-Pentanone	10.23	43	1056	1.420	ug/l #	73
76) 1,2,3-Trichloropropane	12.63	75	43561	57.356	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	43561	119.958	ug/l #	10

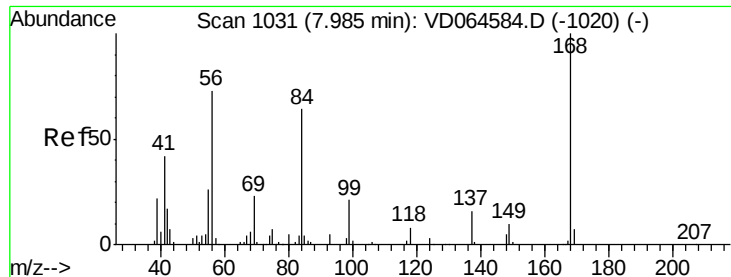
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
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: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleId :

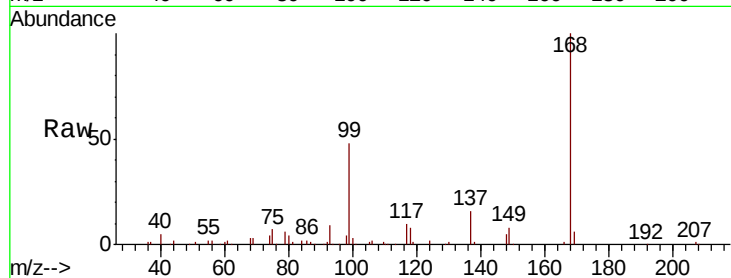
LIED-BF003-01

Tot Ion:168 Resp: 129788

Ion Ratio Lower Upper

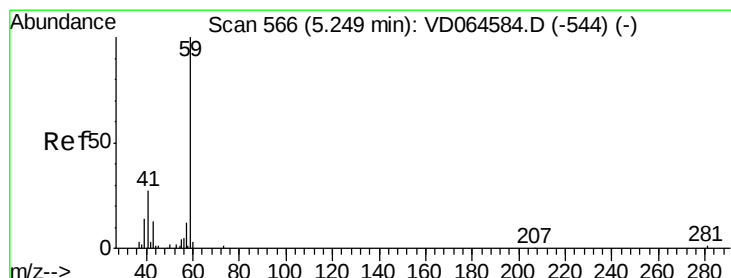
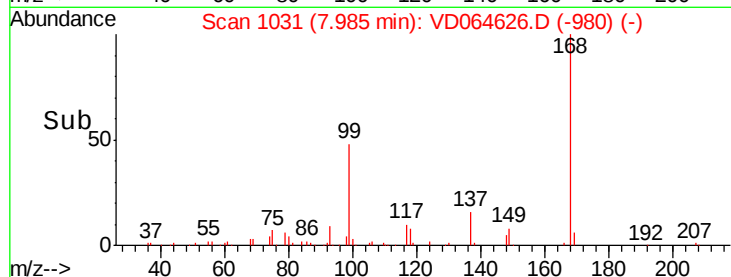
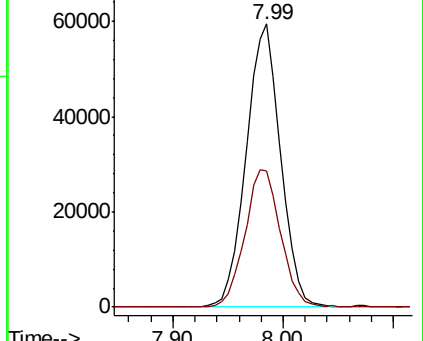
168 100

99 48.3 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: 5.397 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.01 min

Lab File: VD064626.D

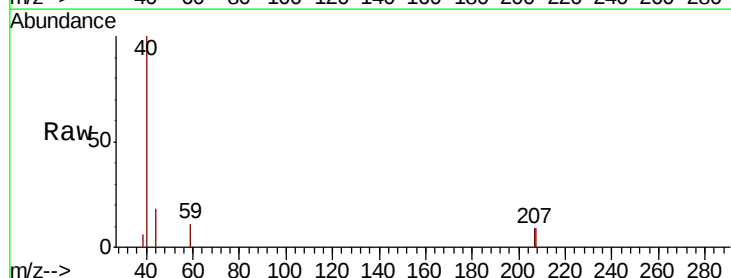
Acq: 27 Dec 2019 05:24

Tgt Ion: 59 Resp: 354

Ion Ratio Lower Upper

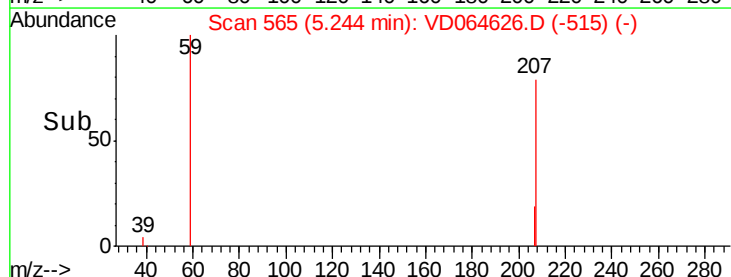
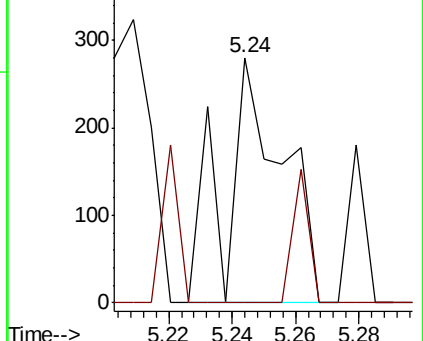
59 100

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

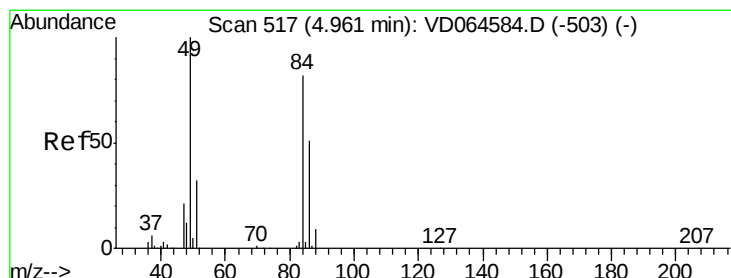
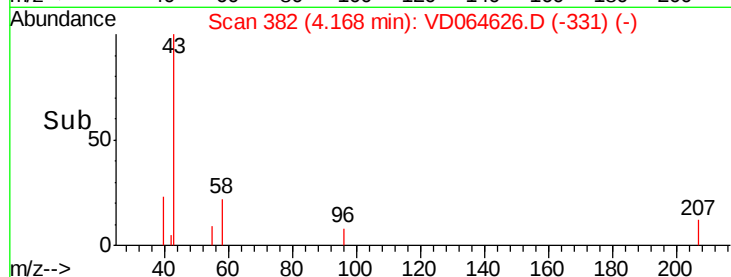
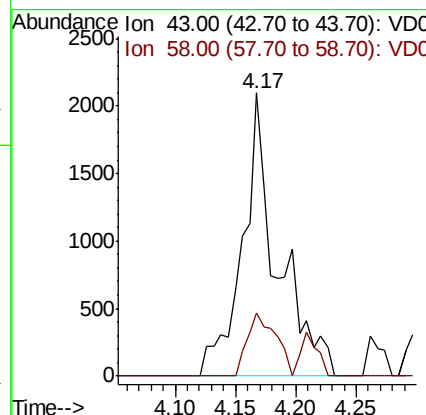
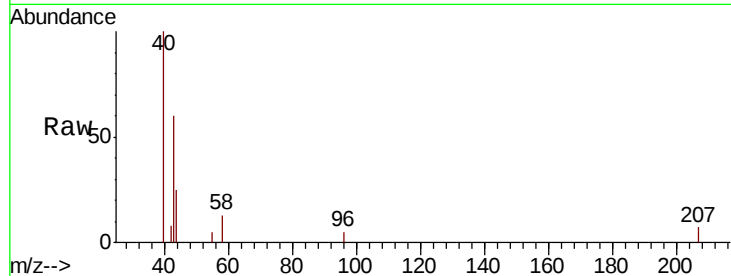




#16
Acetone
Concen: 19.630 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD064626.D
Acq: 27 Dec 2019 05:24

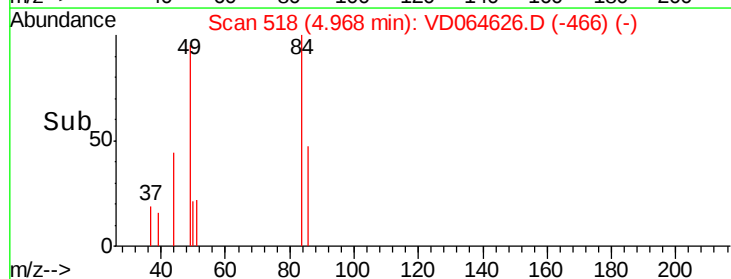
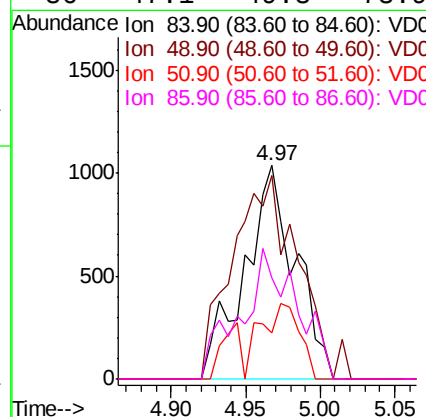
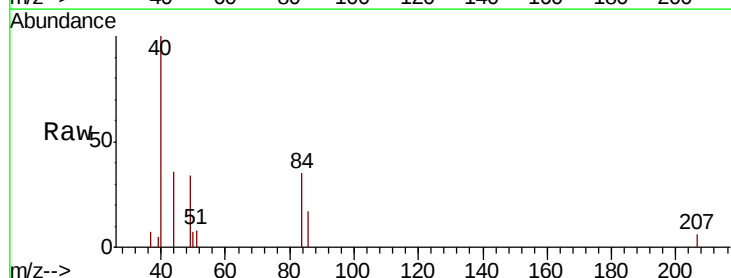
Instrument :
MSVOA_D
ClientSampleId :
LIED-BF003-01

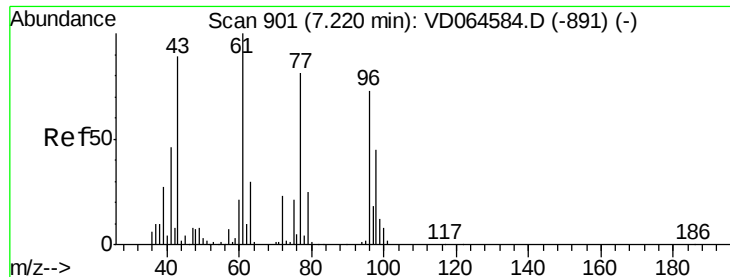
Tot Ion: 43 Resp: 4211
Ion Ratio Lower Upper
43 100
58 22.2 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064626.D
Acq: 27 Dec 2019 05:24

Tgt Ion: 84 Resp: 2463
Ion Ratio Lower Upper
84 100
49 95.5 97.2 145.8#
51 21.8 31.4 47.0#
86 47.1 49.3 73.9#





#25

2-Butanone

Concen: 4.419 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleId :

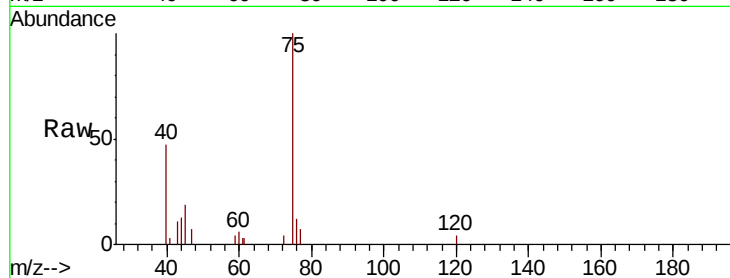
LIED-BF003-01

Tot Ion: 43 Resp: 1390

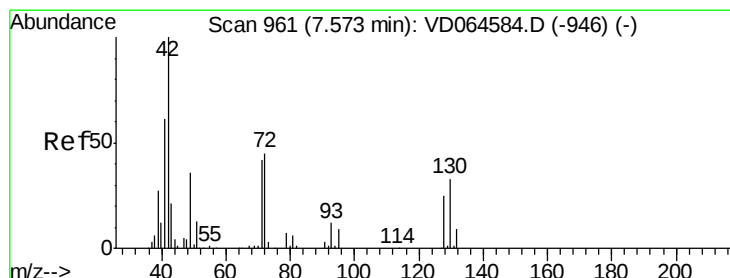
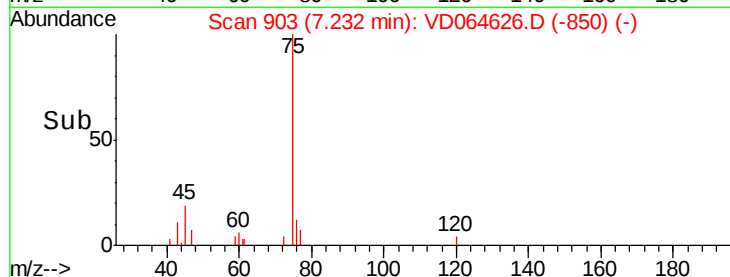
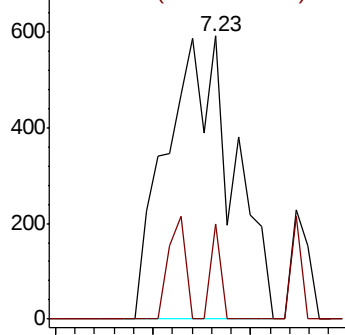
Ion Ratio Lower Upper

43 100

72 33.8 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC



#29

Tetrahydrofuran

Concen: 5.521 ug/l

RT: 7.59 min Scan# 963

Delta R.T. 0.01 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

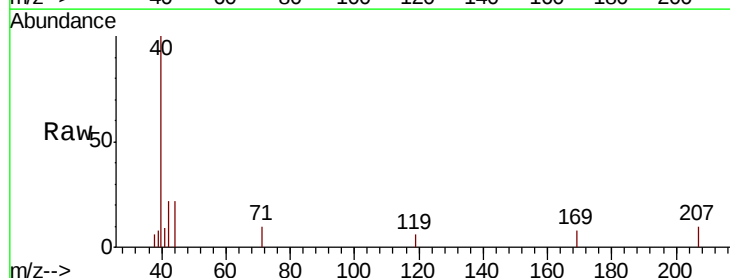
Tgt Ion: 42 Resp: 1080

Ion Ratio Lower Upper

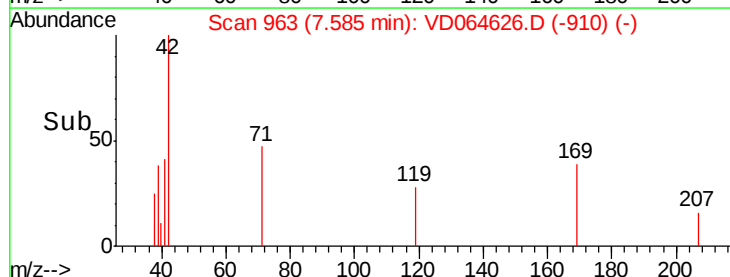
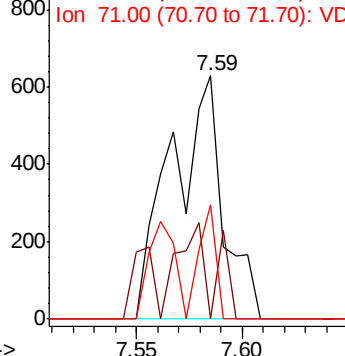
42 100

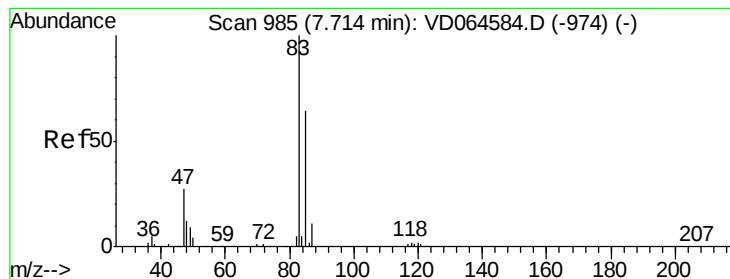
72 26.9 35.0 52.4#

71 15.6 32.9 49.3#



Abundance Ion 42.00 (41.70 to 42.70): VDC





#30

Chloroform

Concen: 1.206 ug/l

RT: 7.70 min Scan# 983

Delta R.T. -0.01 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleId :

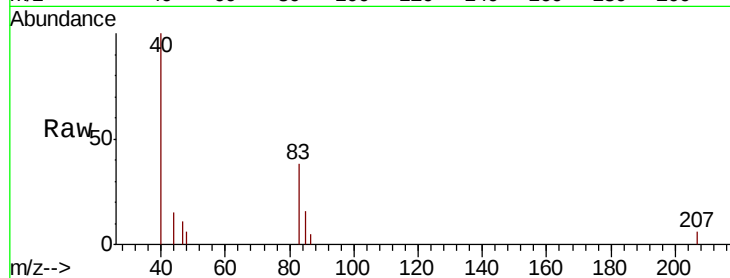
LIED-BF003-01

Tot Ion: 83 Resp: 2698

Ion Ratio Lower Upper

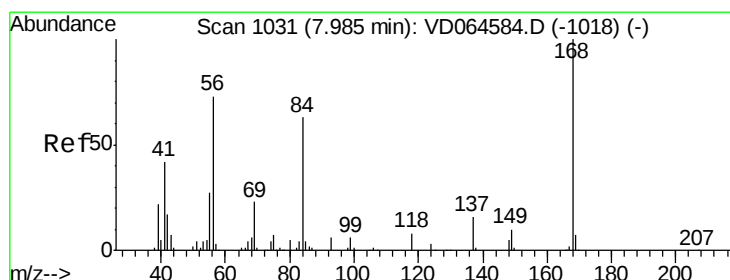
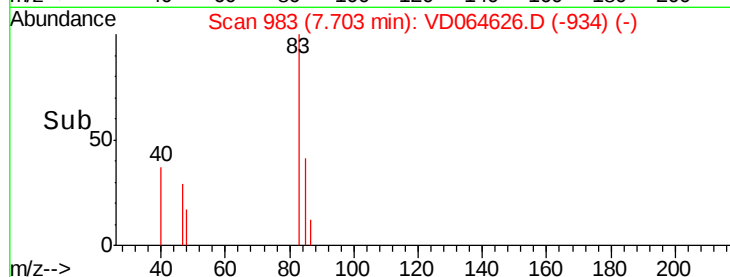
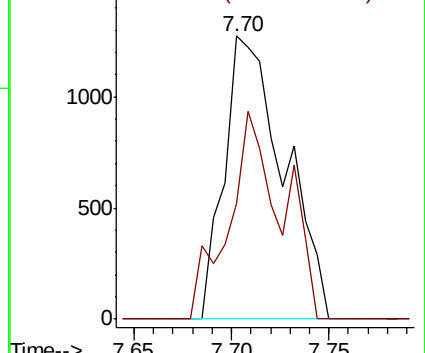
83 100

85 41.1 51.1 76.7#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC



#31

Cyclohexane

Concen: 1.148 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

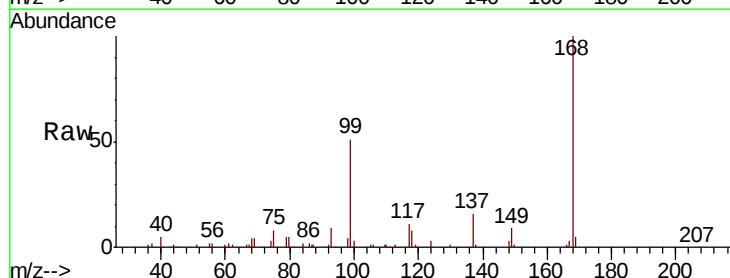
Tgt Ion: 56 Resp: 2449

Ion Ratio Lower Upper

56 100

69 169.9 24.7 37.1#

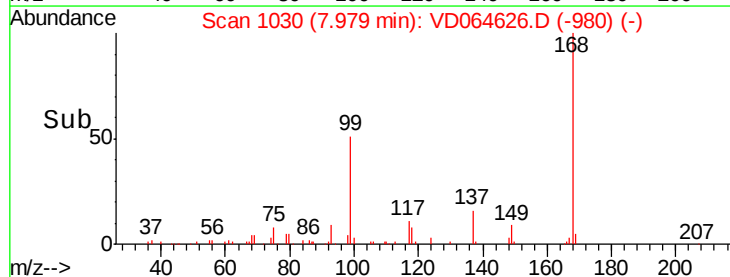
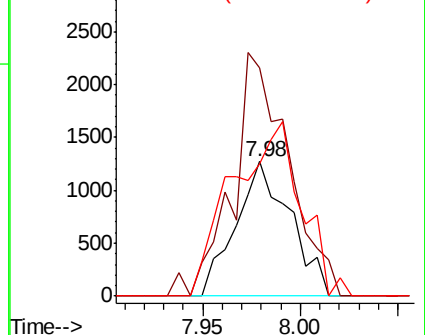
84 98.6 69.4 104.2

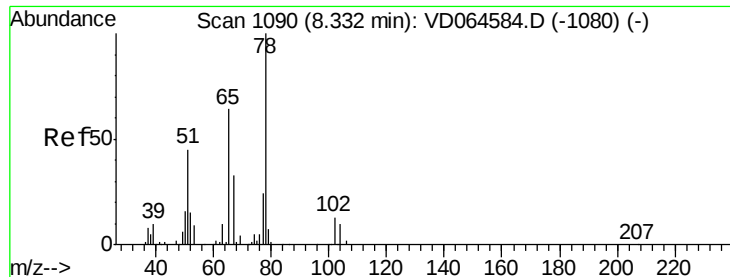


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 83.509 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleId :

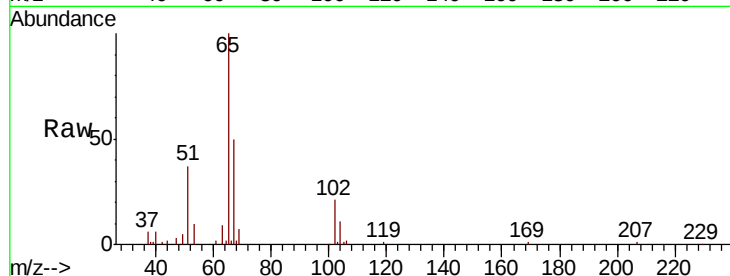
LIED-BF003-01

Tot Ion: 65 Resp: 95572

Ion Ratio Lower Upper

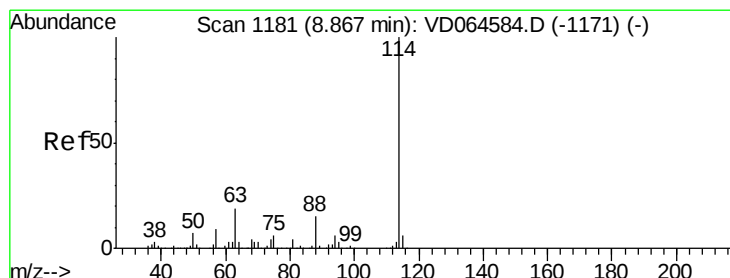
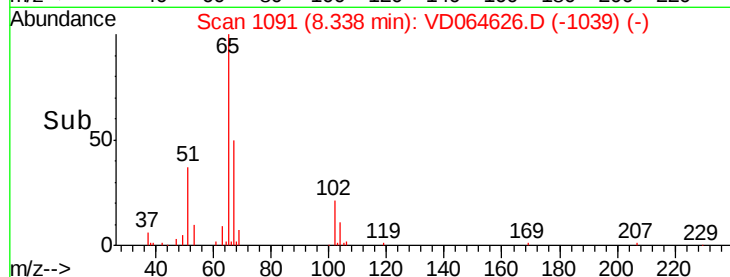
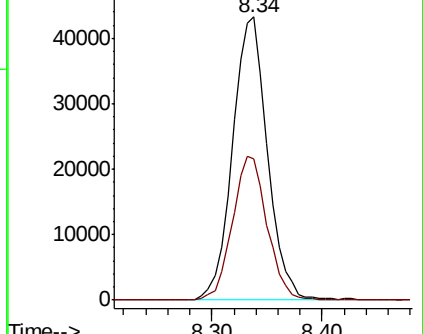
65 100

67 50.4 0.0 106.2



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: VD064626.D

Acq: 27 Dec 2019 05:24

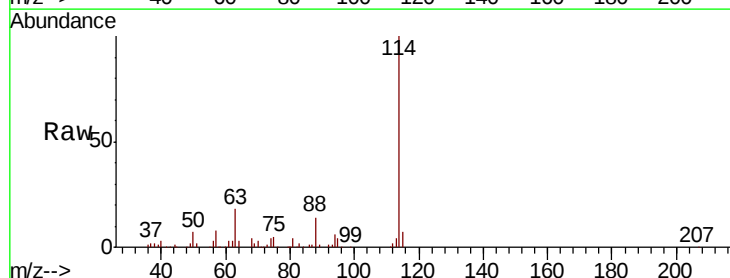
Tgt Ion: 114 Resp: 199915

Ion Ratio Lower Upper

114 100

63 18.1 0.0 38.0

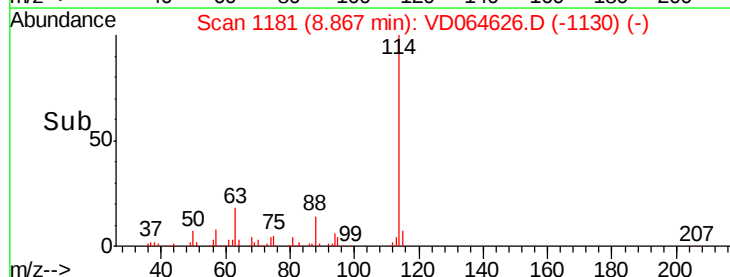
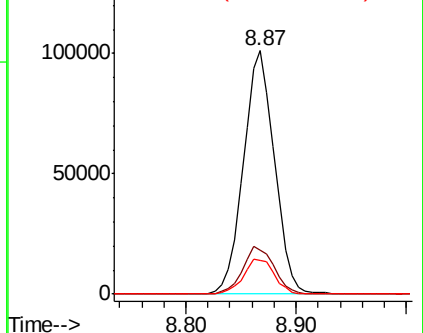
88 14.0 0.0 29.2

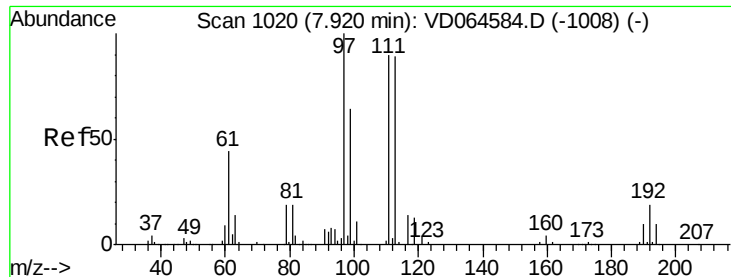


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

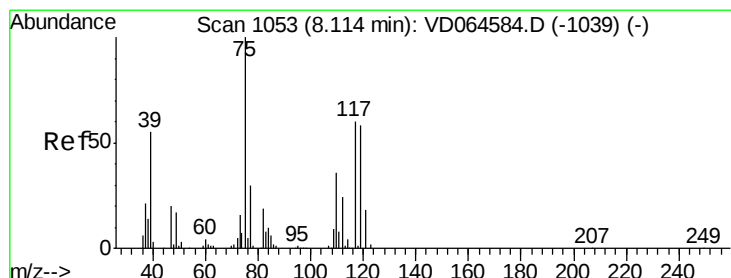
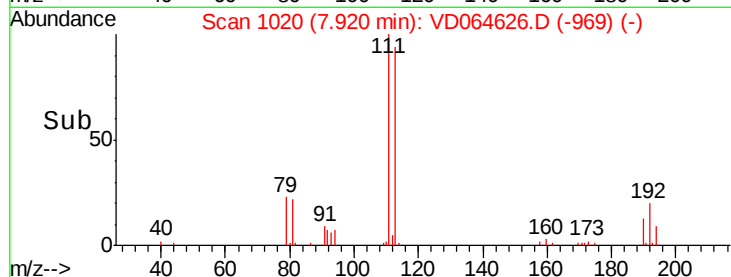
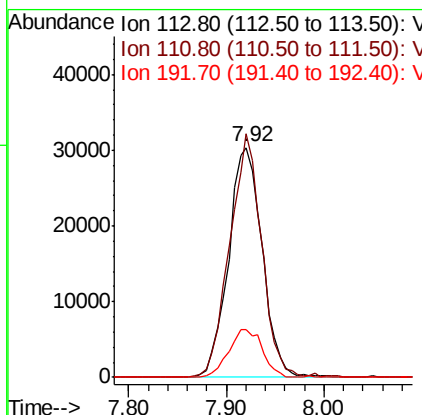
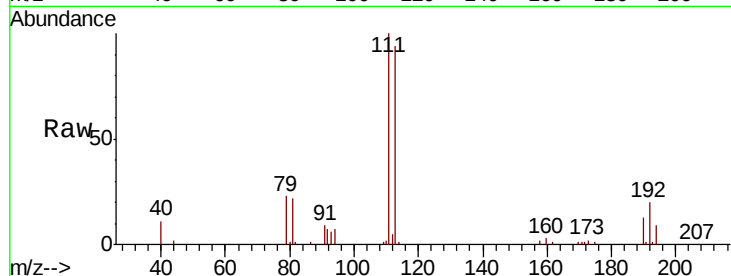




#35
 Dibromofluoromethane
 Concen: 59.311 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064626.D
 Acq: 27 Dec 2019 05:24

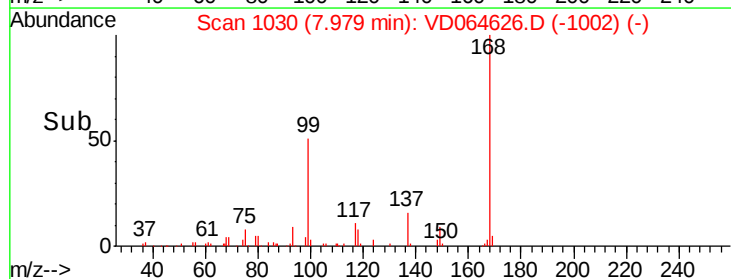
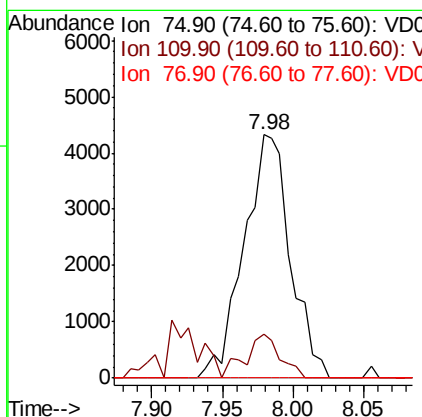
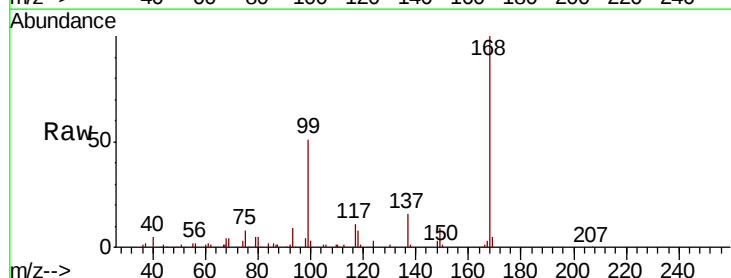
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF003-01

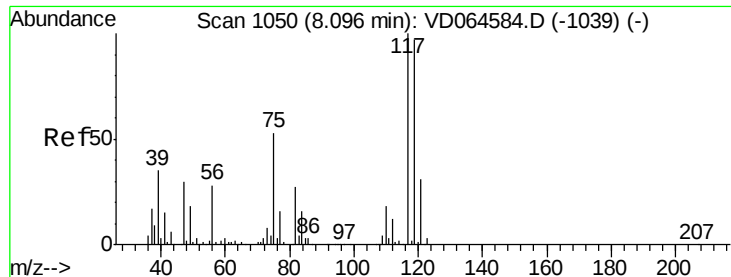
Tot Ion:113 Resp: 72746
 Ion Ratio Lower Upper
 113 100
 111 100.6 80.6 121.0
 192 20.9 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 5.174 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD064626.D
 Acq: 27 Dec 2019 05:24

Tgt Ion: 75 Resp: 9956
 Ion Ratio Lower Upper
 75 100
 110 13.5 18.1 54.1#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.285 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF003-01

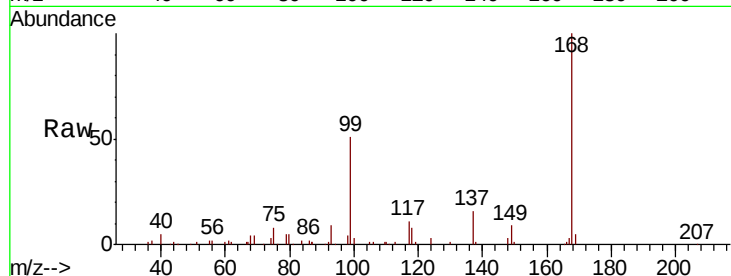
Tot Ion:117 Resp: 12895

Ion Ratio Lower Upper

117 100

119 7.4 77.3 115.9#

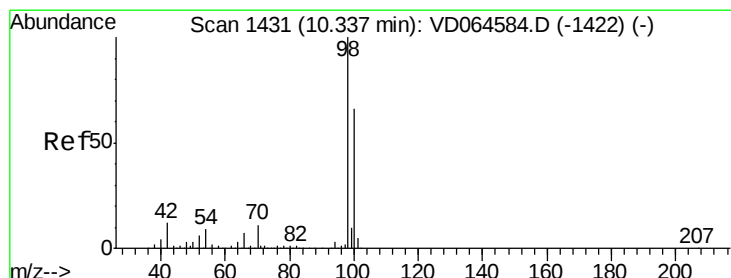
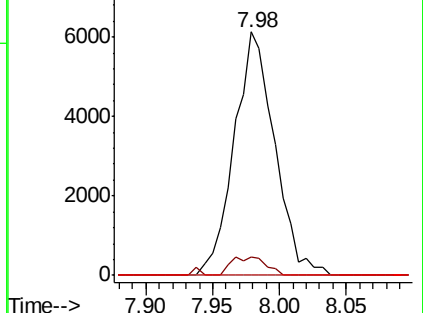
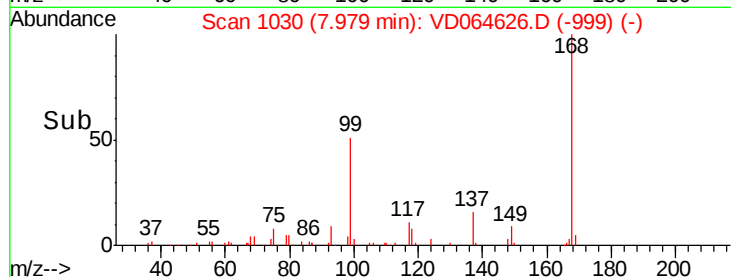
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: 51.223 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD064626.D

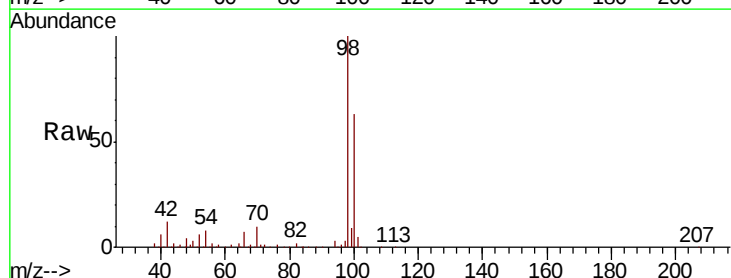
Acq: 27 Dec 2019 05:24

Tgt Ion: 98 Resp: 240617

Ion Ratio Lower Upper

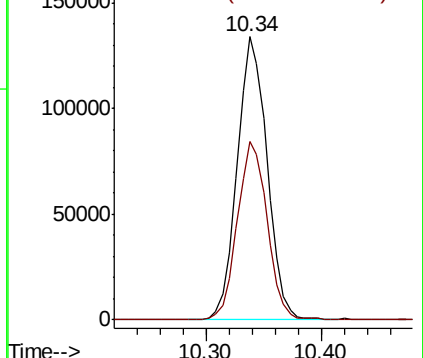
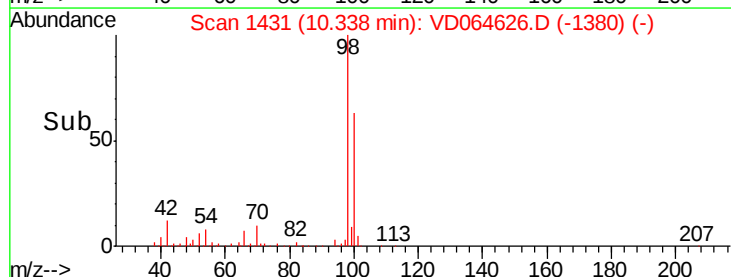
98 100

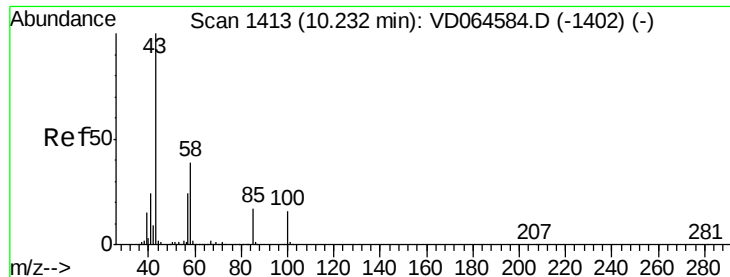
100 62.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.420 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleID :

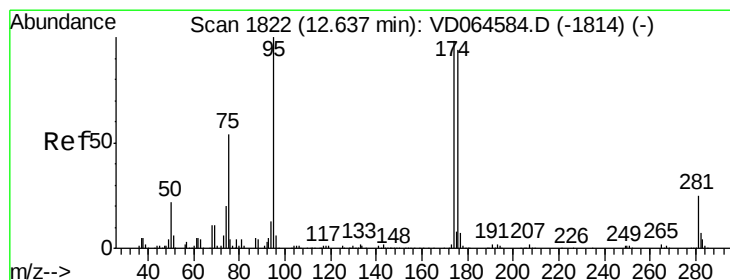
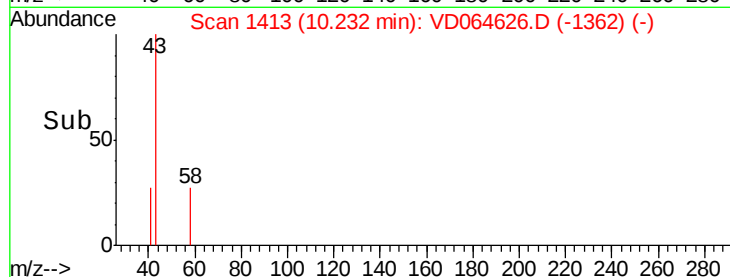
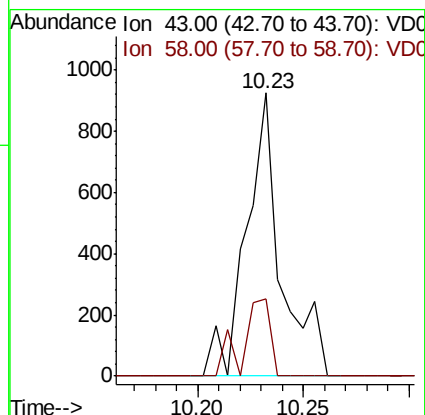
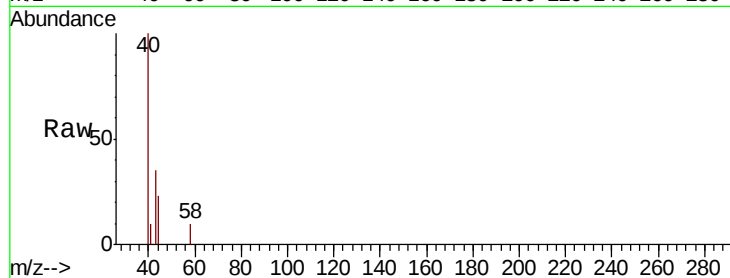
LIED-BF003-01

Tot Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

58 21.6 30.2 45.2#



#62

4-Bromofluorobenzene

Concen: 54.991 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

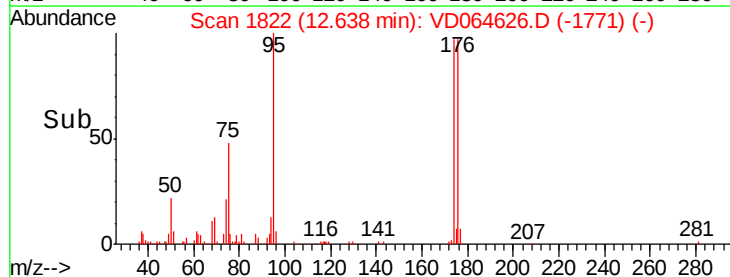
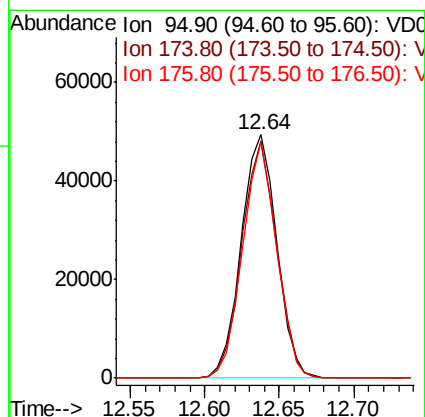
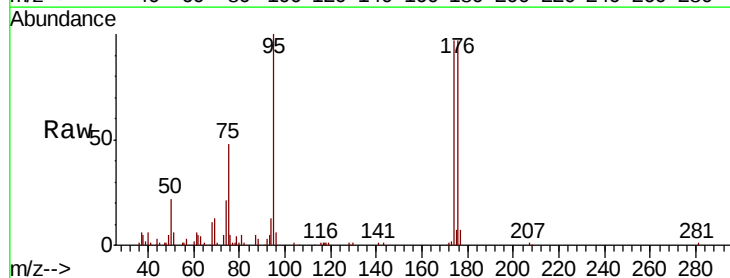
Tgt Ion: 95 Resp: 81682

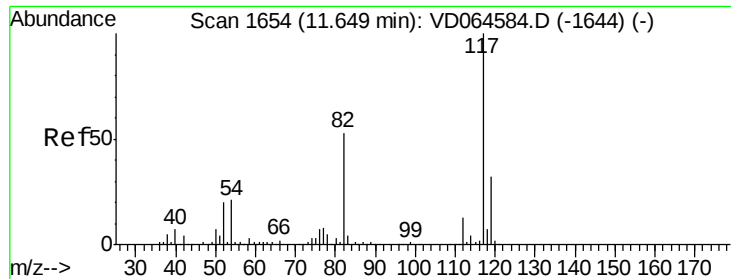
Ion Ratio Lower Upper

95 100

174 95.0 0.0 193.2

176 92.4 0.0 184.2

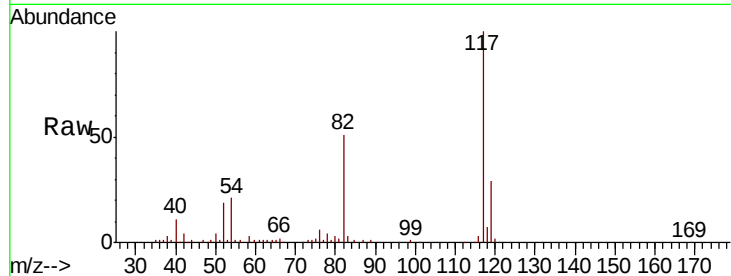




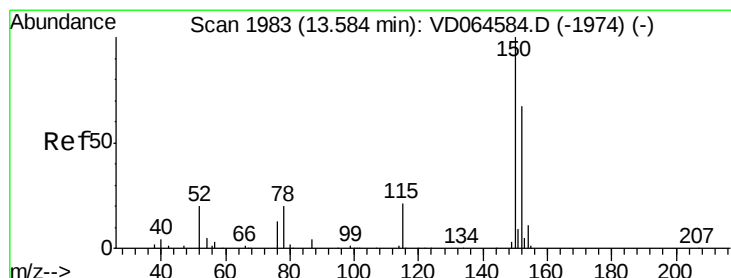
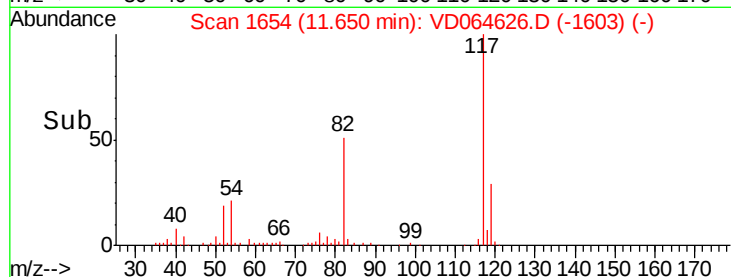
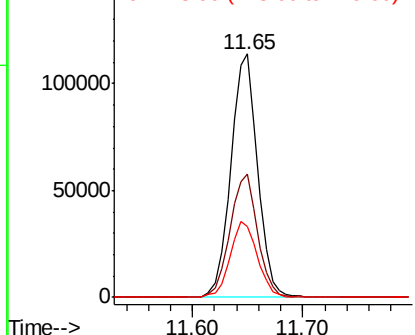
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064626.D
Acq: 27 Dec 2019 05:24

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF003-01

Tot Ion:117 Resp: 193505
Ion Ratio Lower Upper
117 100
82 50.8 42.2 63.4
119 29.0 26.0 39.0

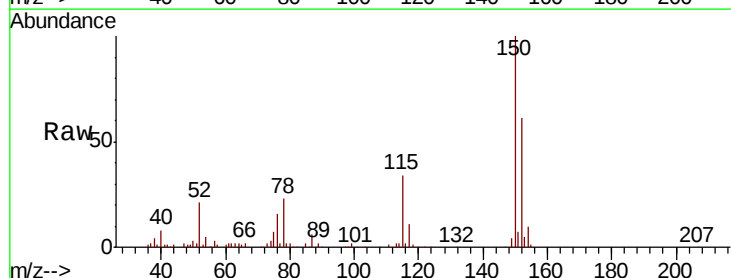


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

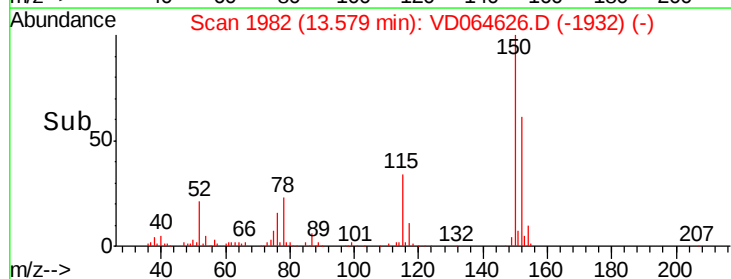
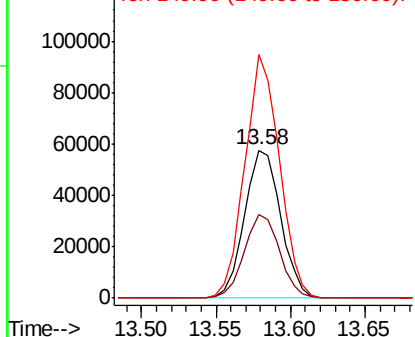


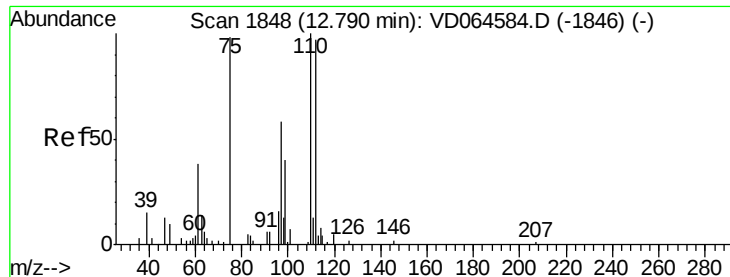
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064626.D
Acq: 27 Dec 2019 05:24

Tgt Ion:152 Resp: 96179
Ion Ratio Lower Upper
152 100
115 55.1 27.8 83.4
150 157.4 0.0 351.4



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: 57.356 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

Instrument :

MSVOA_D

ClientSampleId :

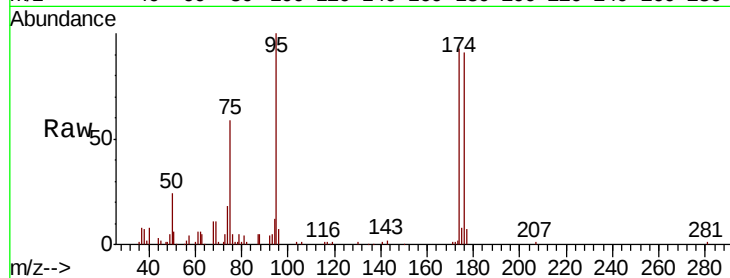
LIED-BF003-01

Tot Ion: 75 Resp: 43561

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

25000

20000

15000

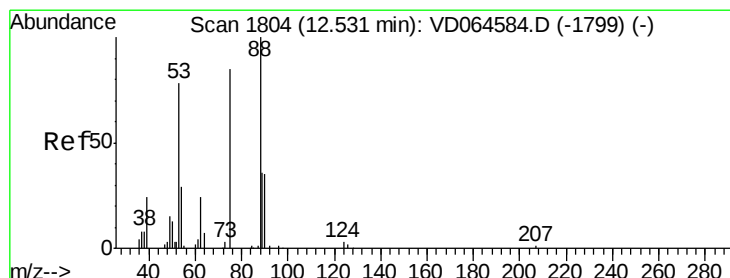
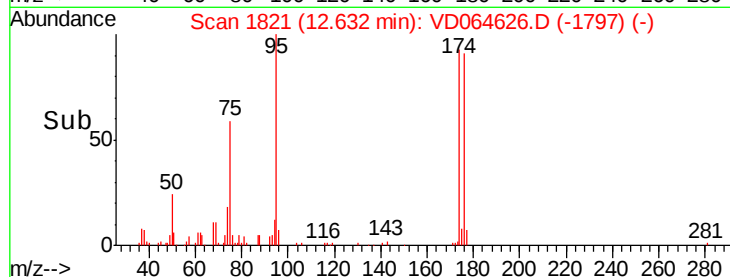
10000

5000

0

Time-->

12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 119.958 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD064626.D

Acq: 27 Dec 2019 05:24

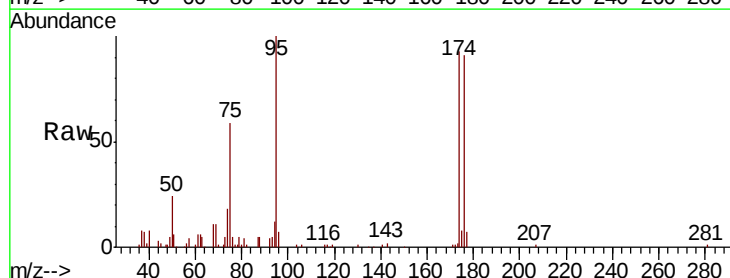
Tgt Ion: 75 Resp: 43561

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

12.63

30000

20000

10000

0

Time-->

12.55 12.60 12.65 12.70

