

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030519\
 Data File : VD060957.D
 Acq On : 5 Mar 2019 19:08
 Operator : VA/AP
 Sample : K1729-02
 Misc : 5.03g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-10

Quant Time: Mar 06 04:09:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	544911	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	971460	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	855488	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	339341	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	200306	44.47	ug/l	0.01
Spiked Amount			Recovery	=	88.94%	
35) Dibromofluoromethane	7.06	113	535	0.07	ug/l	0.14
Spiked Amount			Recovery	=	0.14%	
50) Toluene-d8	10.41	98	618659	31.92	ug/l	0.01
Spiked Amount			Recovery	=	63.84%	
62) 4-Bromofluorobenzene	13.55	95	277871	37.94	ug/l	0.00
Spiked Amount			Recovery	=	75.88%	

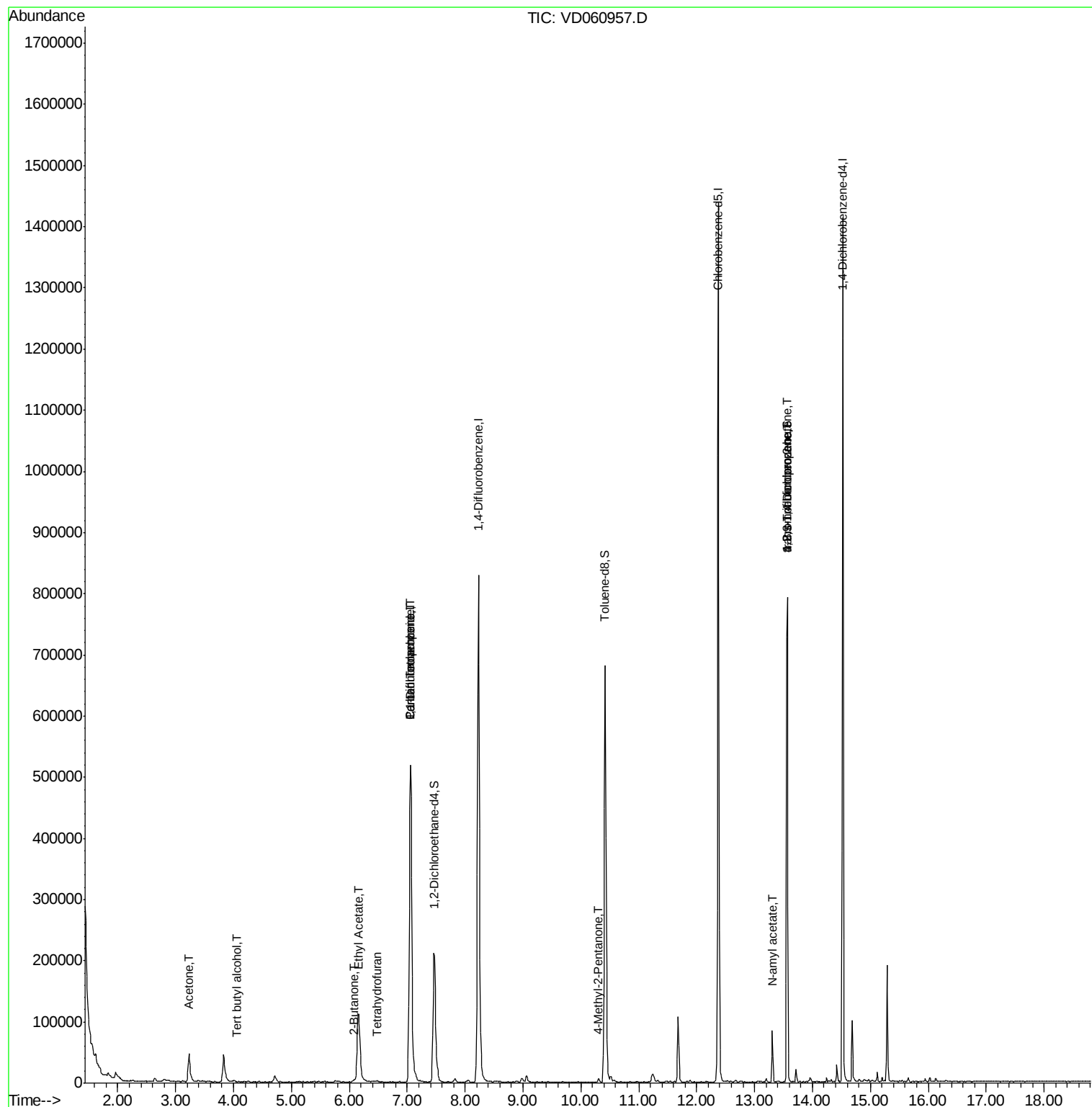
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.05	59	409	1.218	ug/l #	77
16) Acetone	3.23	43	86255	57.348	ug/l	93
25) 2-Butanone	6.08	43	9372	5.023	ug/l #	87
29) Tetrahydrofuran	6.48	42	2218	2.309	ug/l #	65
36) 1,1-Dichloropropene	7.06	75	44445	4.976	ug/l #	43
37) Ethyl Acetate	6.15	43	6601	1.438	ug/l #	1
38) Carbon Tetrachloride	7.06	117	54299	5.659	ug/l #	16
51) 4-Methyl-2-Pentanone	10.31	43	4509	1.157	ug/l #	79
74) N-amyl acetate	13.31	43	13203	1.686	ug/l #	13
76) 1,2,3-Trichloropropane	13.55	75	88686	16.130	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.55	75	99352	61.056	ug/l #	20
89) n-Butylbenzene	14.80	91	989	Below Cal	#	86

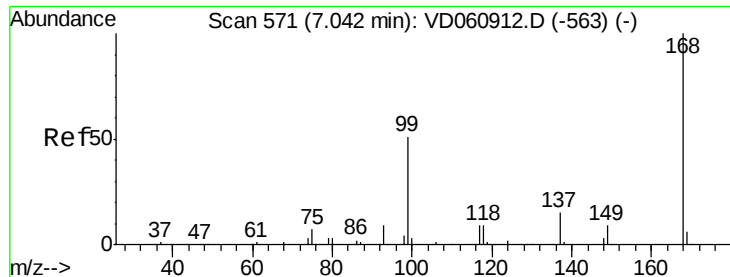
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030519\
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Quant Title : SW846 8260
QLast Update : Sat Mar 02 01:28:28 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

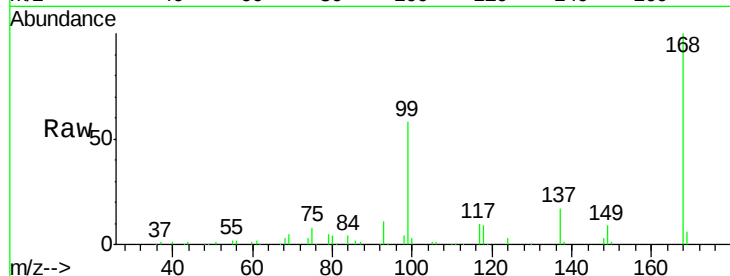
RICH-REC-ROAD-STONE-10

Tot Ion:168 Resp: 544911

Ion Ratio Lower Upper

168 100

99 58.5 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

200000

150000

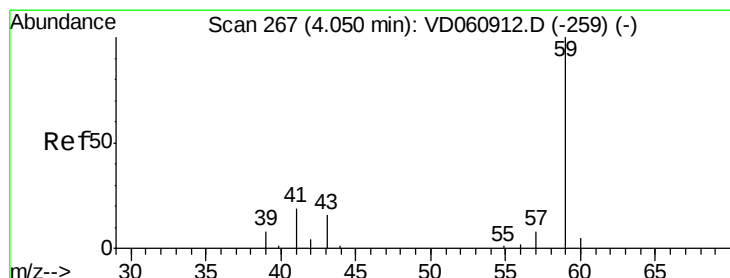
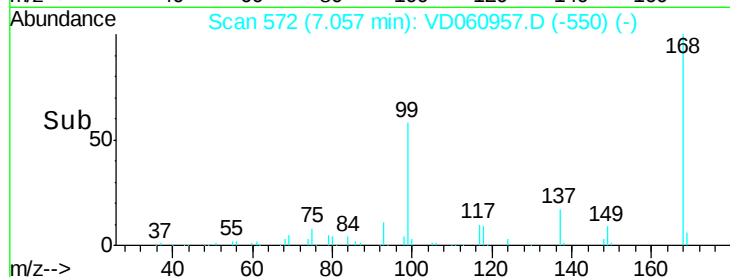
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.218 ug/l

RT: 4.05 min Scan# 267

Delta R.T. 0.01 min

Lab File: VD060957.D

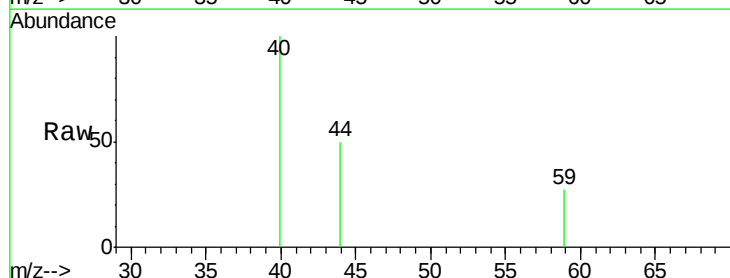
Acq: 5 Mar 2019 19:08

Tgt Ion: 59 Resp: 409

Ion Ratio Lower Upper

59 100

57 0.0 6.5 9.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

600

500

400

300

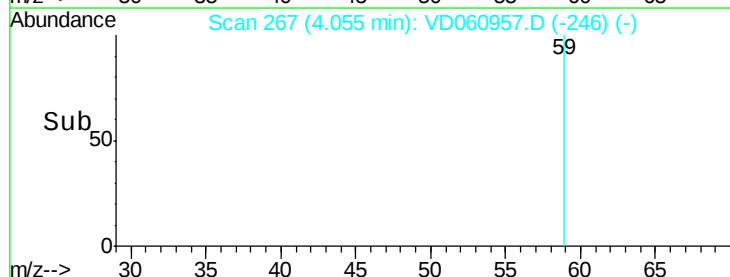
200

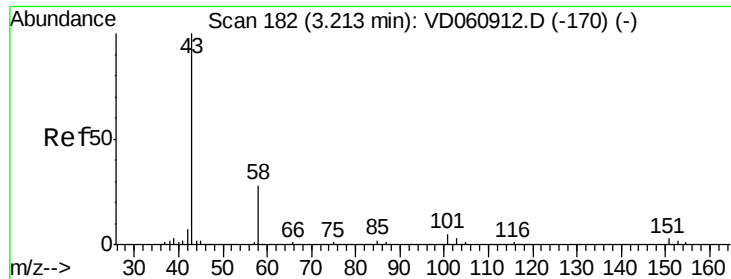
100

0

Time-->

4.04 4.06 4.08 4.10





#16

Acetone

Concen: 57.348 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

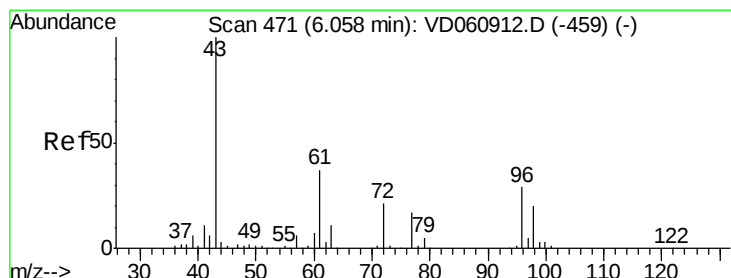
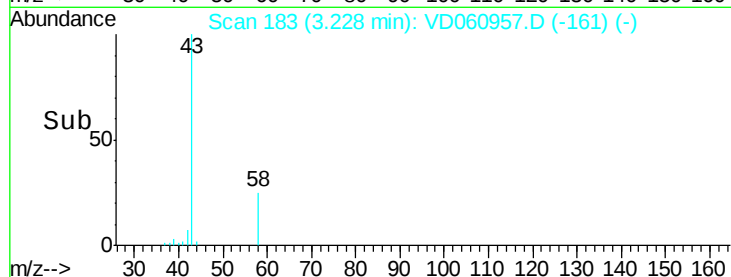
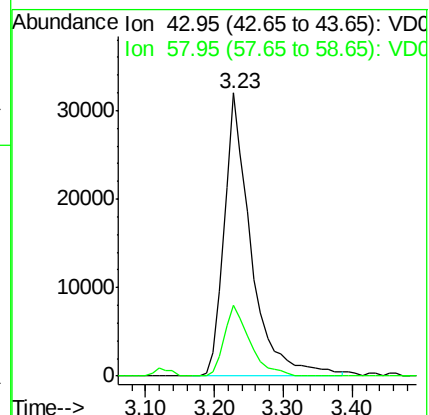
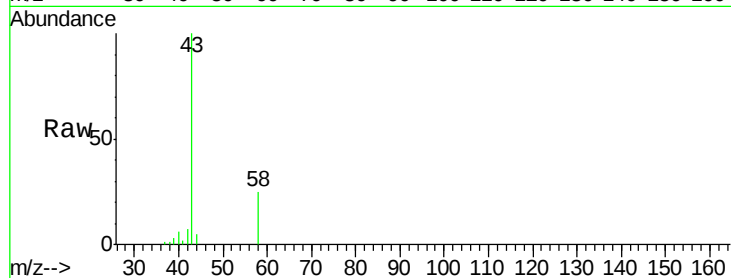
RICH-REC-ROAD-STONE-10

Tot Ion: 43 Resp: 86255

Ion Ratio Lower Upper

43 100

58 25.0 22.8 34.2



#25

2-Butanone

Concen: 5.023 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD060957.D

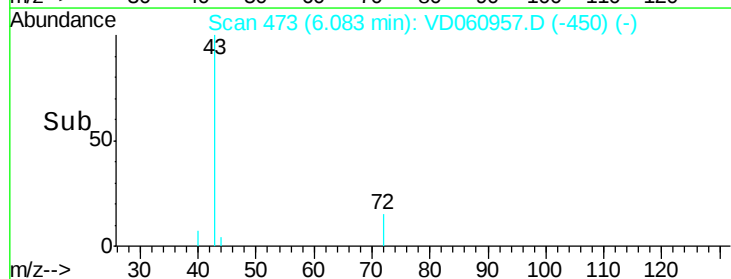
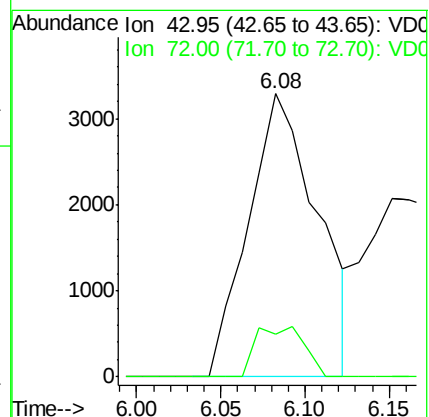
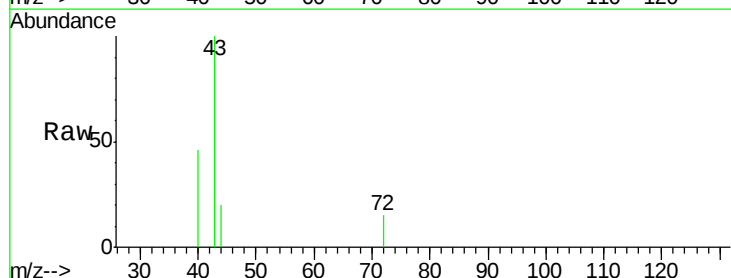
Acq: 5 Mar 2019 19:08

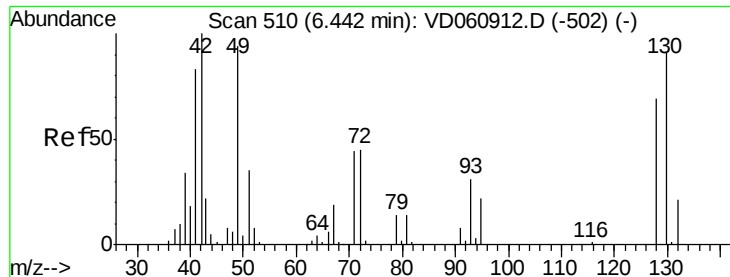
Tgt Ion: 43 Resp: 9372

Ion Ratio Lower Upper

43 100

72 15.3 17.0 25.4#





#29

Tetrahydrofuran

Concen: 2.309 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10

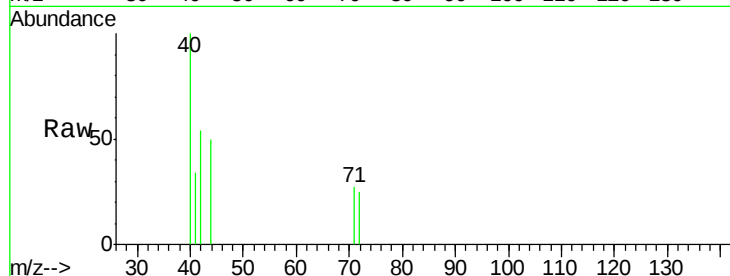
Tot Ion: 42 Resp: 2218

Ion Ratio Lower Upper

42 100

72 10.1 33.8 50.6#

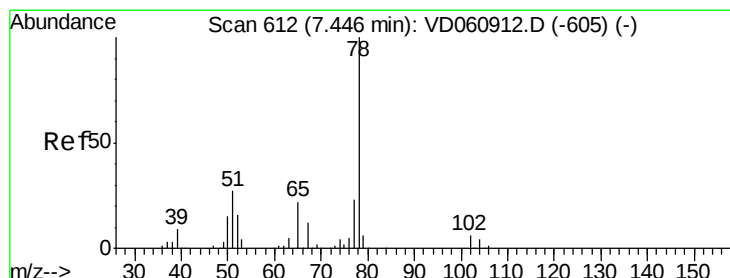
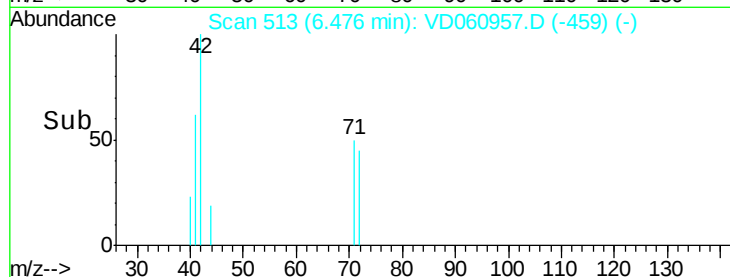
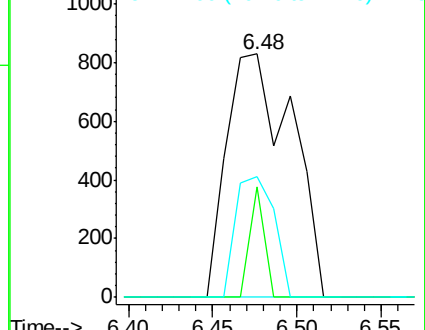
71 29.4 33.5 50.3#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD060957.D

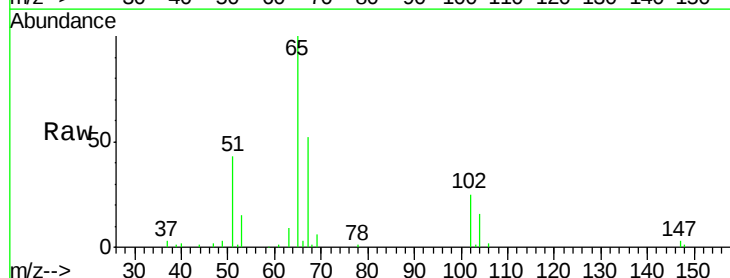
Acq: 5 Mar 2019 19:08

Tgt Ion: 65 Resp: 200306

Ion Ratio Lower Upper

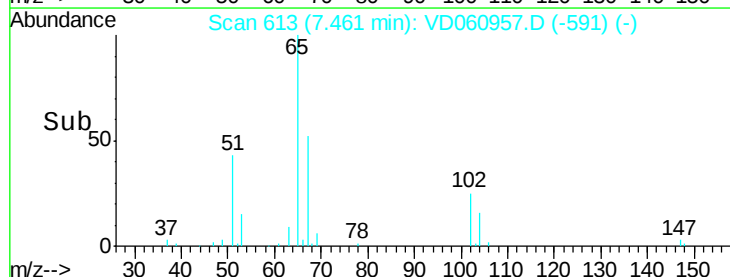
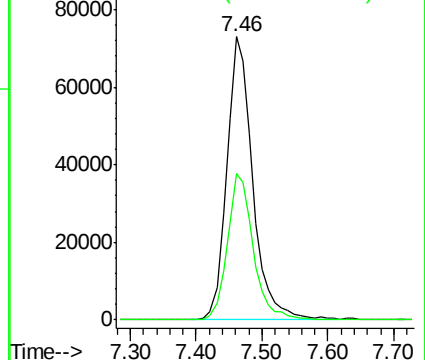
65 100

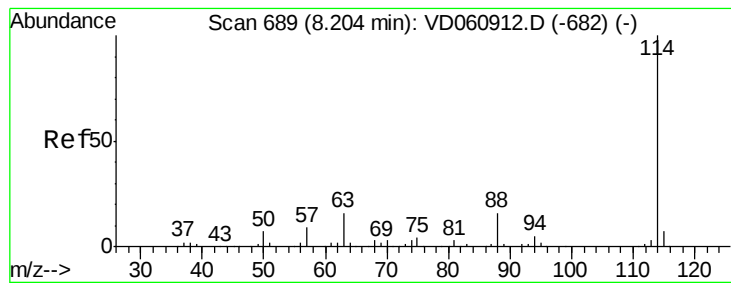
67 51.6 0.0 109.4



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: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10

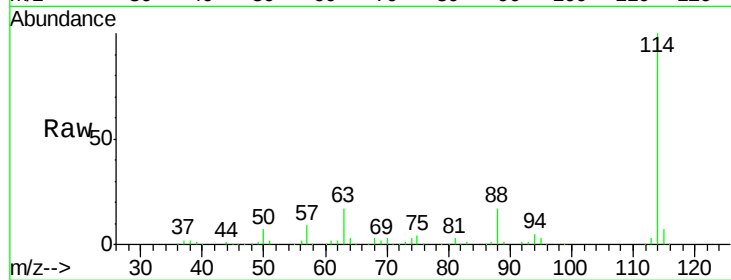
Tot Ion:114 Resp: 971460

Ion Ratio Lower Upper

114 100

63 16.9 0.0 32.0

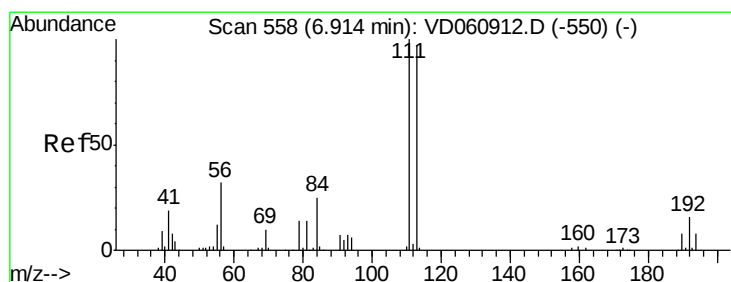
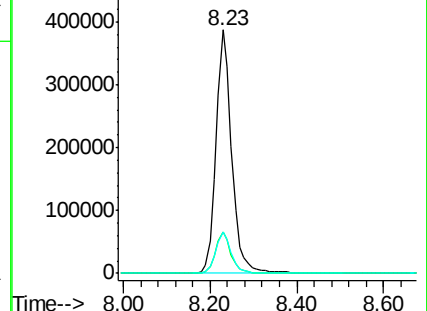
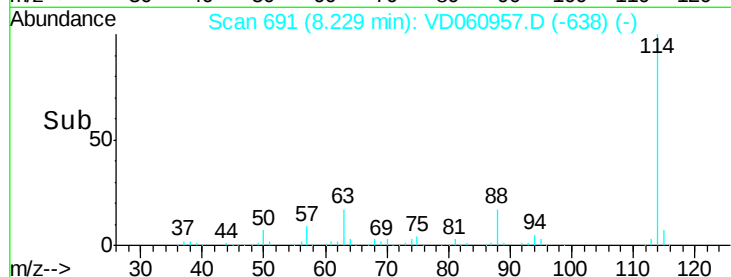
88 17.0 0.0 32.8



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: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.14 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

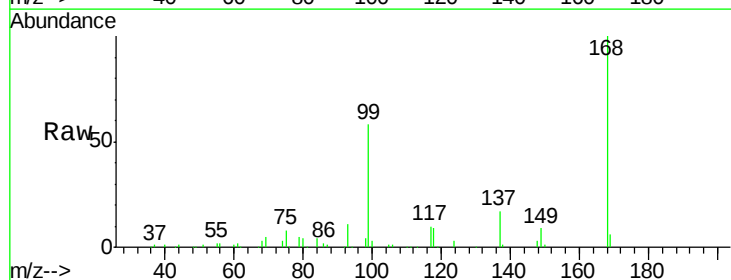
Tgt Ion:113 Resp: 535

Ion Ratio Lower Upper

113 100

111 90.0 82.6 124.0

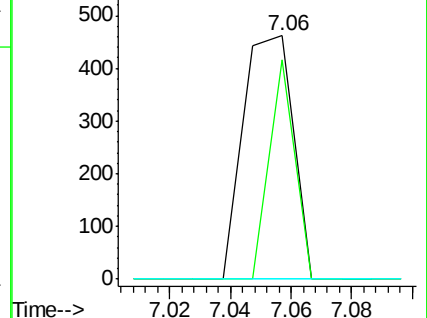
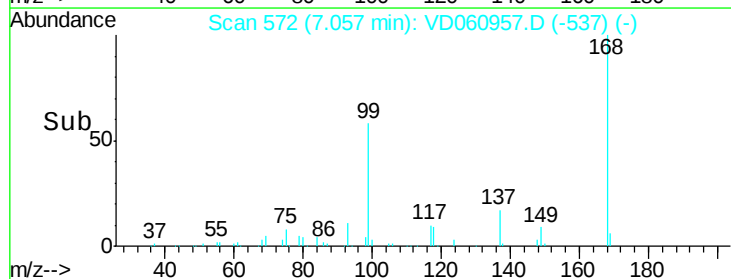
192 0.0 13.4 20.2#

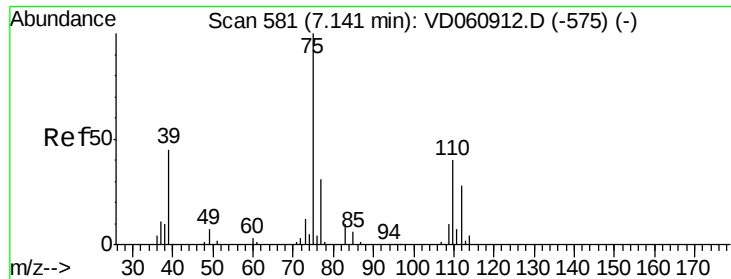


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

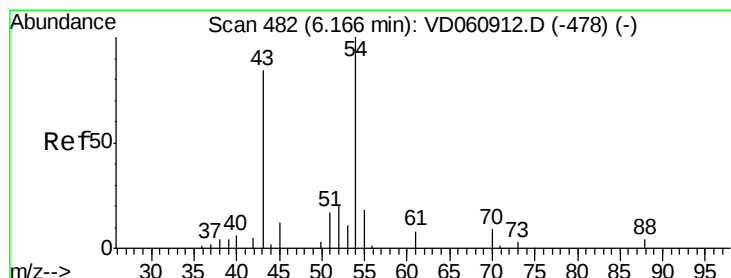
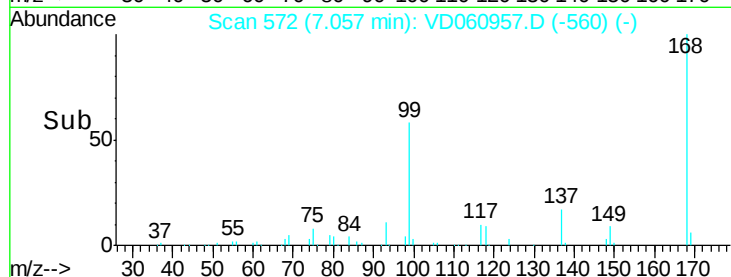
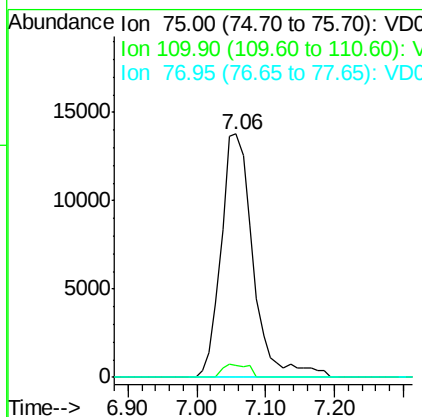
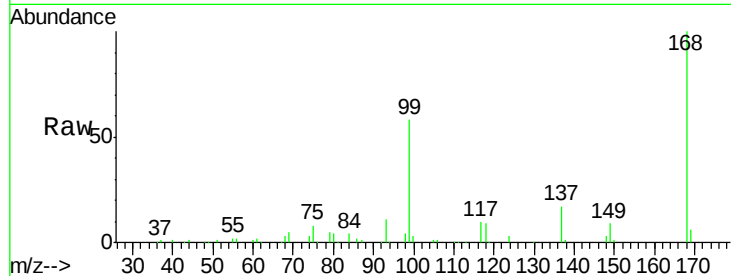




#36
 1,1-Dichloropropene
 Concen: 4.976 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.08 min
 Lab File: VD060957.D
 Acq: 5 Mar 2019 19:08

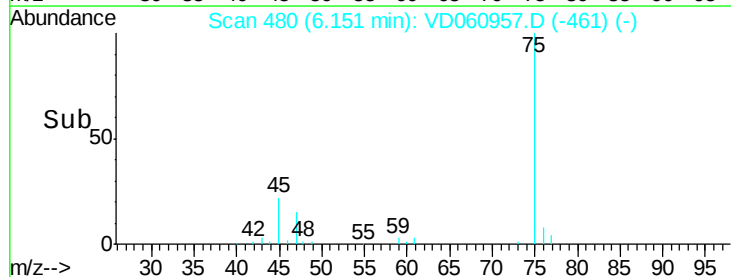
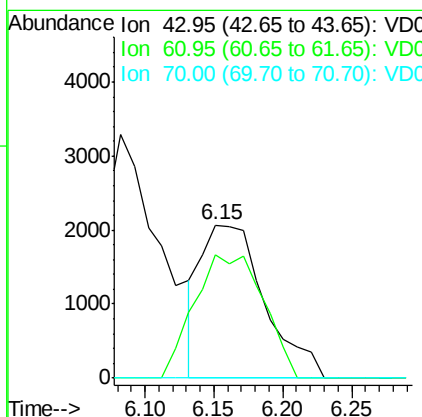
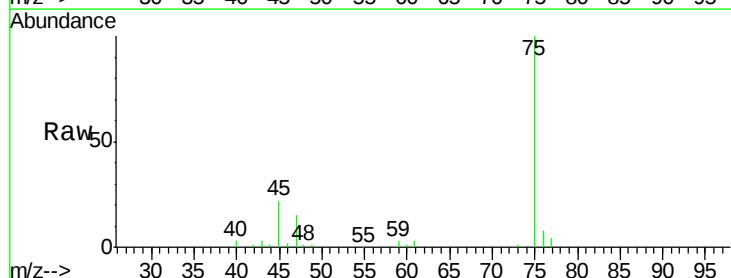
Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-10

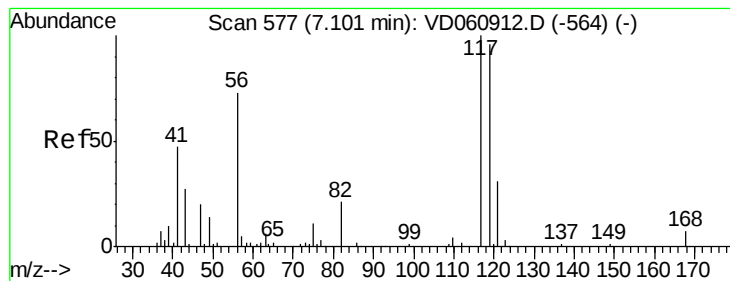
Tot Ion: 75 Resp: 44445
 Ion Ratio Lower Upper
 75 100
 110 5.0 19.9 59.7#
 77 0.0 25.0 37.6#



#37
 Ethyl Acetate
 Concen: 1.438 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: VD060957.D
 Acq: 5 Mar 2019 19:08

Tgt Ion: 43 Resp: 6601
 Ion Ratio Lower Upper
 43 100
 61 80.7 12.1 18.1#
 70 0.0 7.3 10.9#





#38

Carbon Tetrachloride

Concen: 5.659 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10

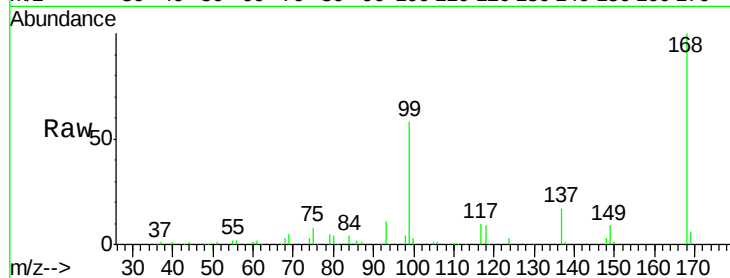
Tot Ion:117 Resp: 54299

Ion Ratio Lower Upper

117 100

119 5.0 76.9 115.3#

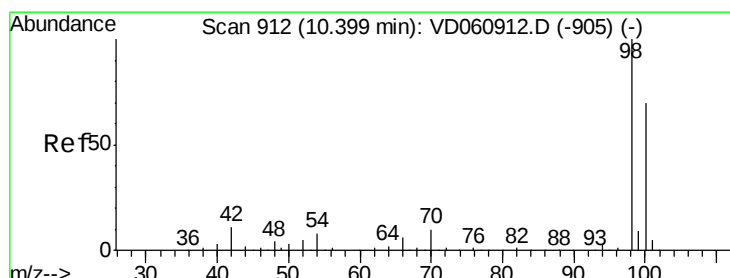
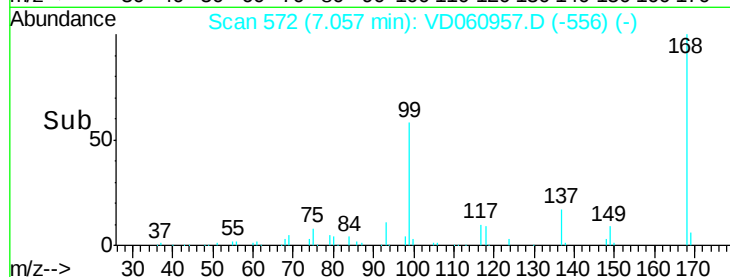
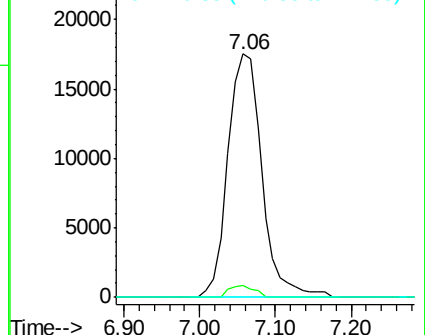
121 0.0 24.5 36.7#



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: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD060957.D

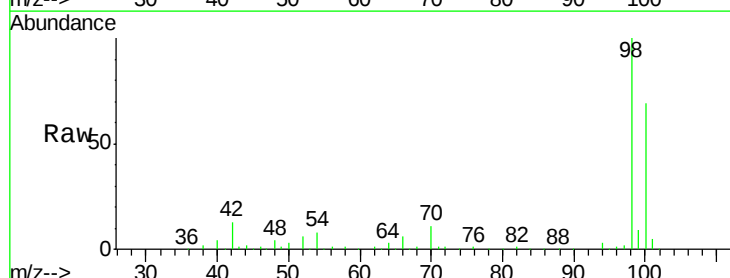
Acq: 5 Mar 2019 19:08

Tgt Ion: 98 Resp: 618659

Ion Ratio Lower Upper

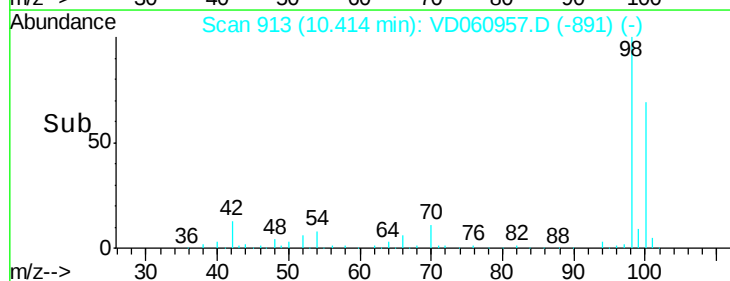
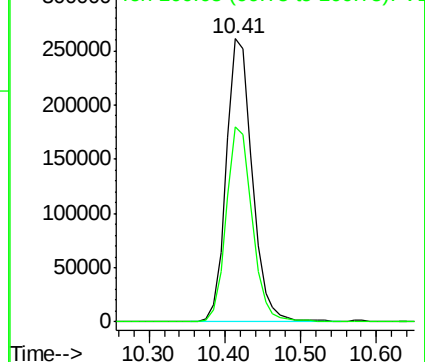
98 100

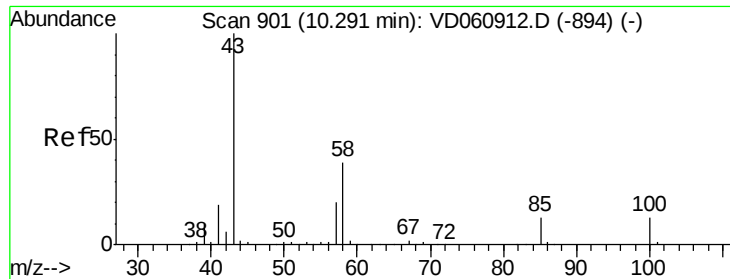
100 69.0 57.0 85.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.157 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

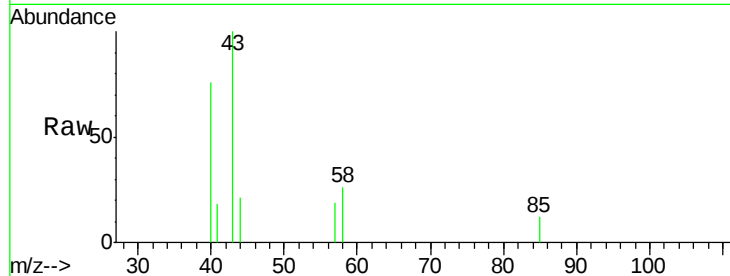
RICH-REC-ROAD-STONE-10

Tot Ion: 43 Resp: 4509

Ion Ratio Lower Upper

43 100

58 25.7 31.0 46.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

2500

2000

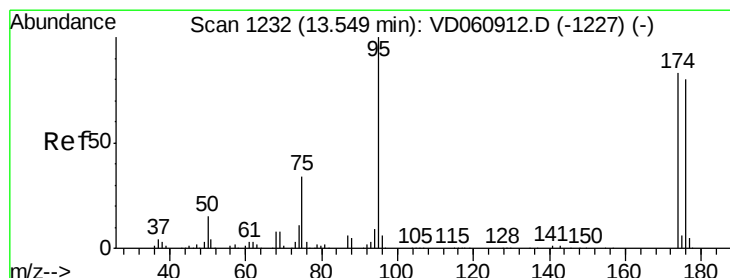
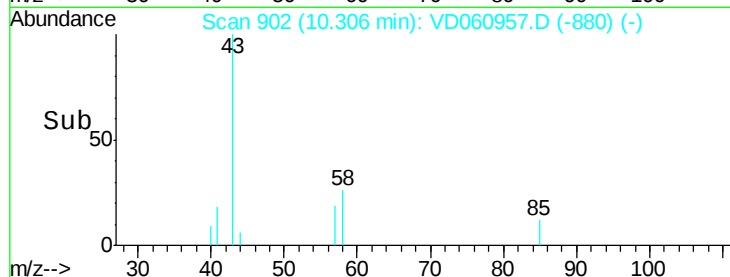
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

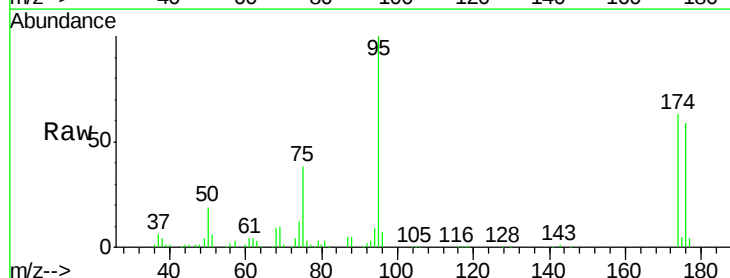
Tgt Ion: 95 Resp: 277871

Ion Ratio Lower Upper

95 100

174 62.7 0.0 165.6

176 59.5 0.0 160.6



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

200000

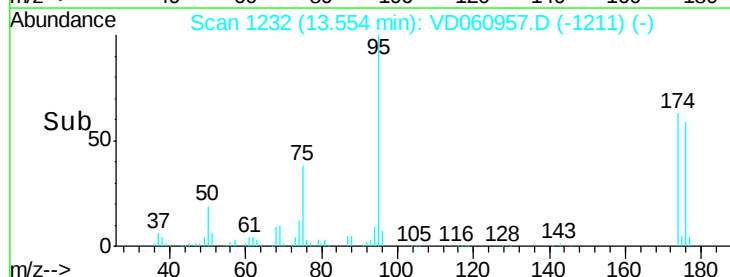
150000

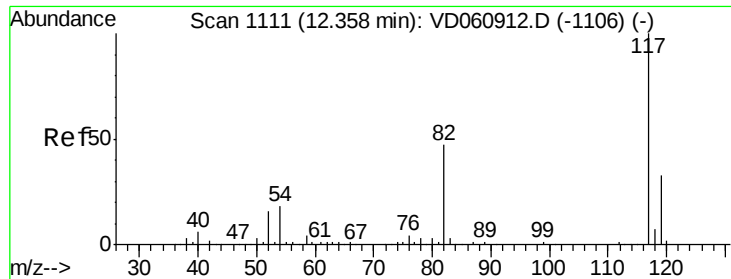
100000

50000

0

Time-->

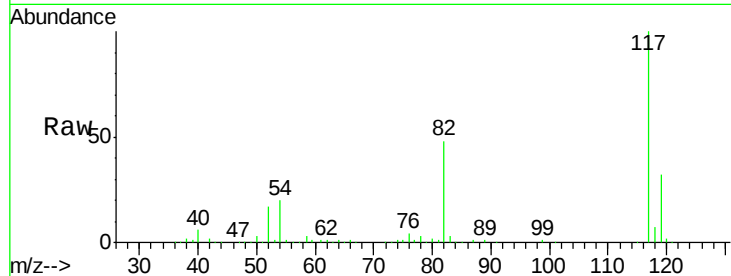




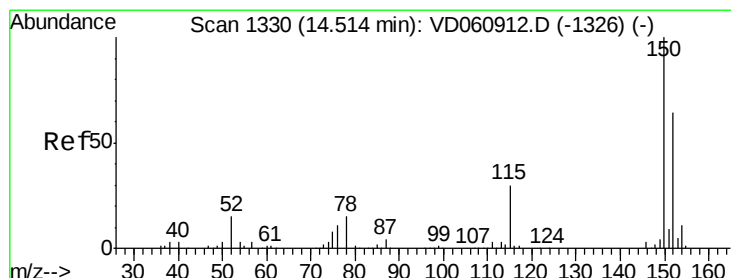
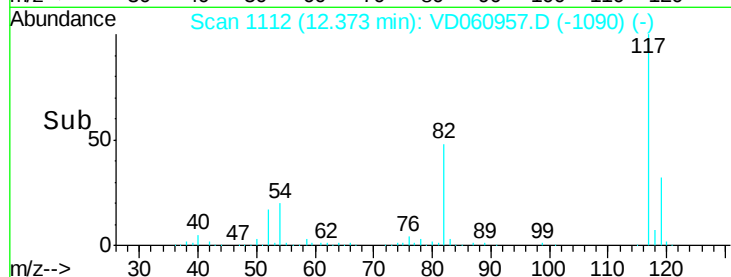
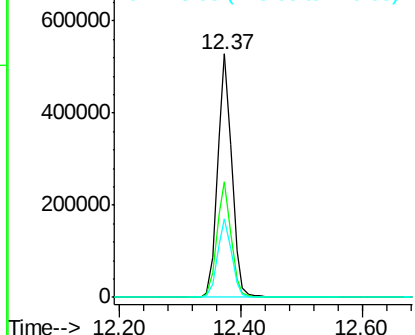
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD060957.D
Acq: 5 Mar 2019 19:08

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-10

Tot Ion:117 Resp: 855488
Ion Ratio Lower Upper
117 100
82 47.5 37.5 56.3
119 32.5 26.2 39.2

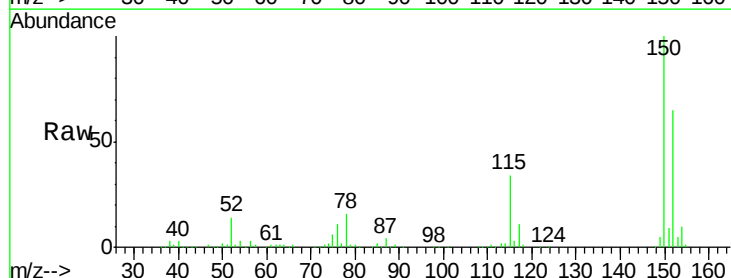


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

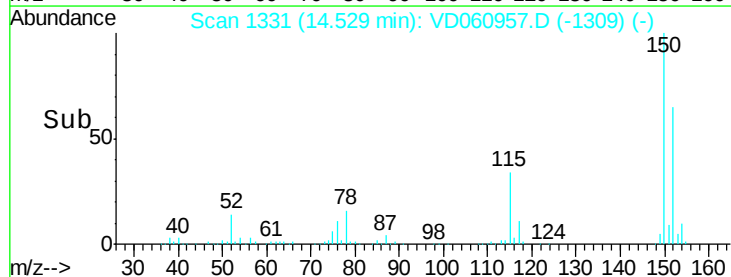
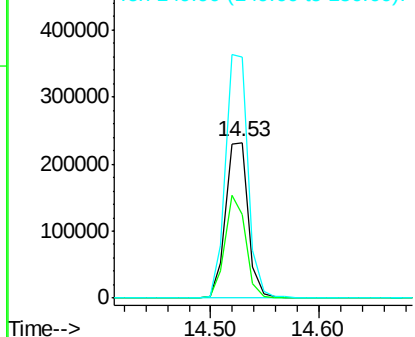


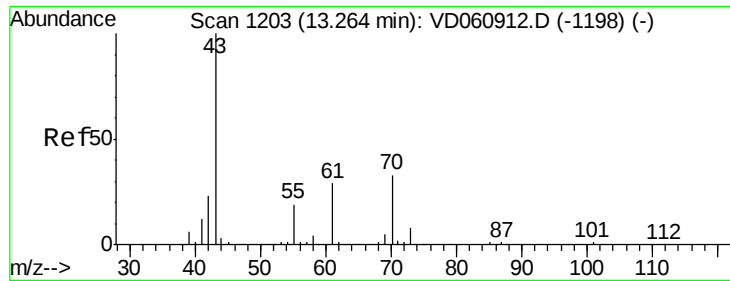
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD060957.D
Acq: 5 Mar 2019 19:08

Tgt Ion:152 Resp: 339341
Ion Ratio Lower Upper
152 100
115 53.3 27.6 82.8
150 155.0 0.0 312.8



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





#74

N-amvl acetate

Concen: 1.686 ug/l

RT: 13.31 min Scan# 1207

Delta R.T. 0.04 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10

Tot Ion: 43 Resp: 13203

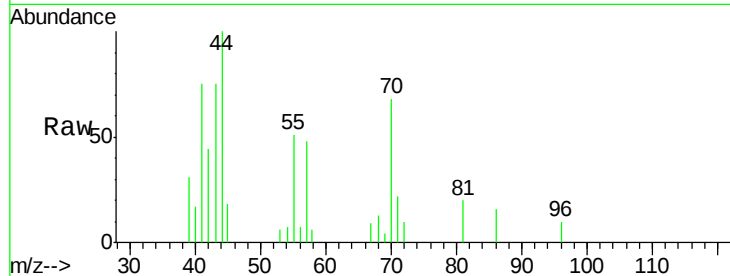
Ion Ratio Lower Upper

43 100

70 91.2 26.3 39.5#

55 68.4 15.4 23.2#

61 0.0 23.4 35.0#

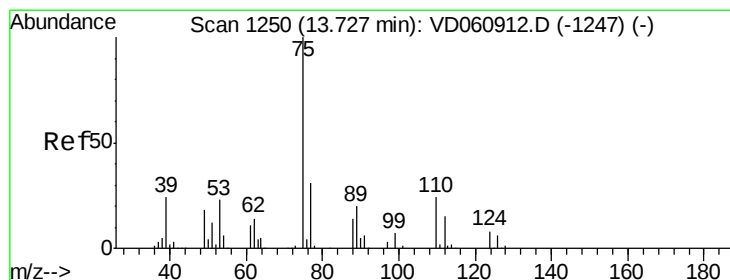
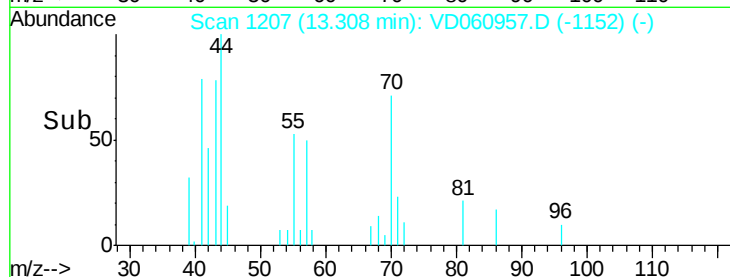
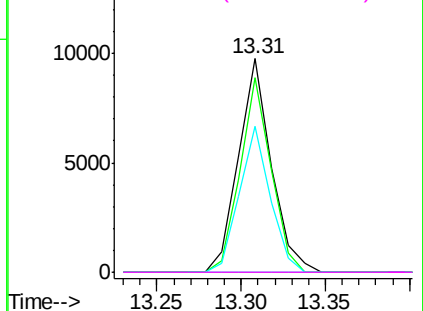


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 16.130 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD060957.D

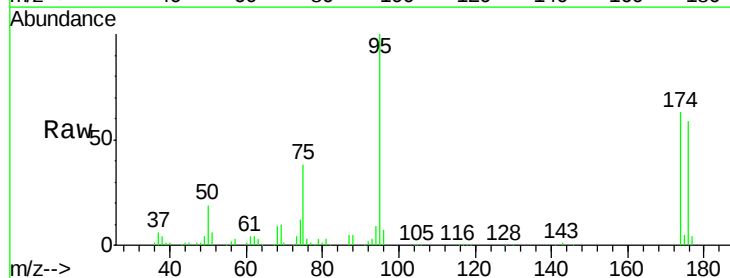
Acq: 5 Mar 2019 19:08

Tgt Ion: 75 Resp: 88686

Ion Ratio Lower Upper

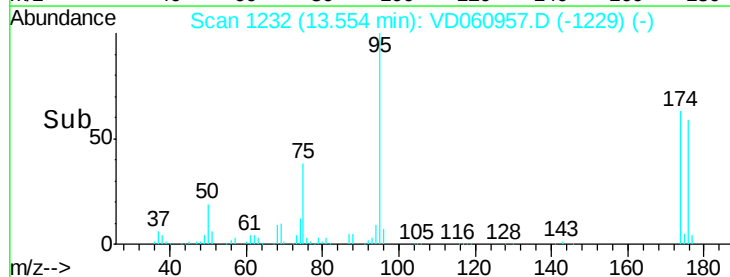
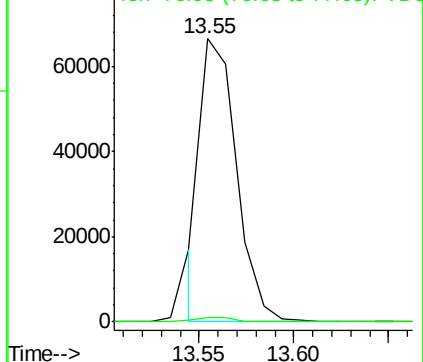
75 100

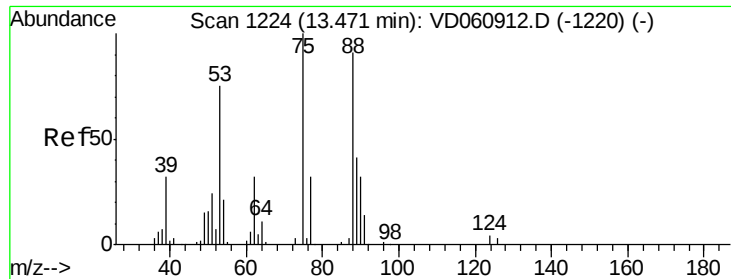
77 1.5 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 61.056 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD060957.D

Acq: 5 Mar 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10

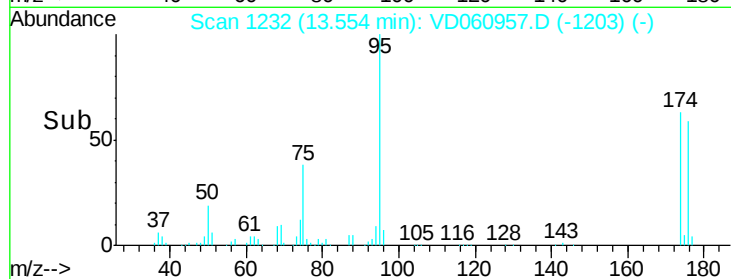
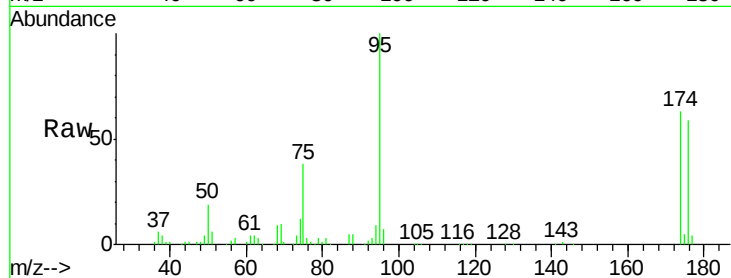
Tot Ion: 75 Resp: 99352

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.6#

89 0.0 33.0 49.6#



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

