

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072919\
 Data File : VD063226.D
 Acq On : 30 Jul 2019 5:22
 Operator : VA/AP
 Sample : K3621-07
 Misc : 5.8g/5ml/MSVOA D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-01-072919

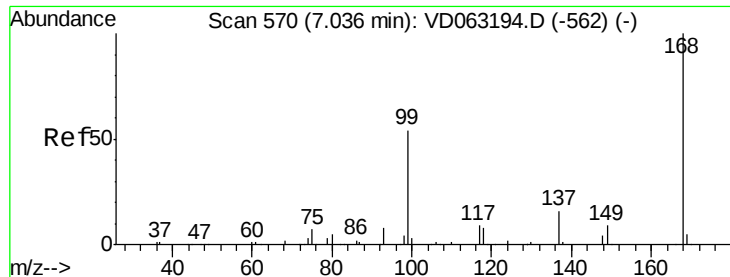
Quant Time: Jul 30 08:40:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	660864	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	941608	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	600870	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	223425	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	440434	60.06	ug/l	0.01
Spiked Amount 50.000			Recovery	=	120.12%	
35) Dibromofluoromethane	6.92	113	482939	60.07	ug/l	0.01
Spiked Amount 50.000			Recovery	=	120.14%	
50) Toluene-d8	10.40	98	813994	45.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.48%	
62) 4-Bromofluorobenzene	13.55	95	259664	31.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	63.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.99	59	15626	48.558	ug/l #	69
16) Acetone	3.22	43	16386	11.469	ug/l #	89
20) Methylene Chloride	3.80	84	16093	2.787	ug/l #	70
25) 2-Butanone	6.16	43	10374	7.235	ug/l	98
29) Tetrahydrofuran	6.46	42	1480	2.180	ug/l #	70
31) Cyclohexane	7.03	56	14716	2.253	ug/l #	41
36) 1,1-Dichloropropene	7.04	75	53706	6.250	ug/l #	50
37) Ethyl Acetate	6.16	43	10374	2.687	ug/l #	1
38) Carbon Tetrachloride	7.04	117	67482	5.216	ug/l #	17
58) 2-Chloroethyl Vinyl ether	9.86	63	6153	2.669	ug/l #	70
81) trans-1,4-Dichloro-2-buten	13.55	75	119507	160.372	ug/l #	3
95) Naphthalene	16.12	128	14648	2.119	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

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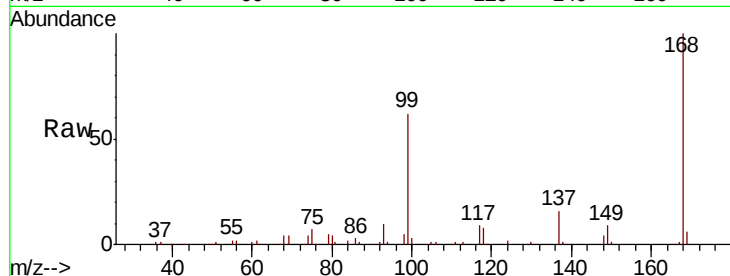
OK-01-072919

Tot Ion:168 Resp: 660864

Ion Ratio Lower Upper

168 100

99 61.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

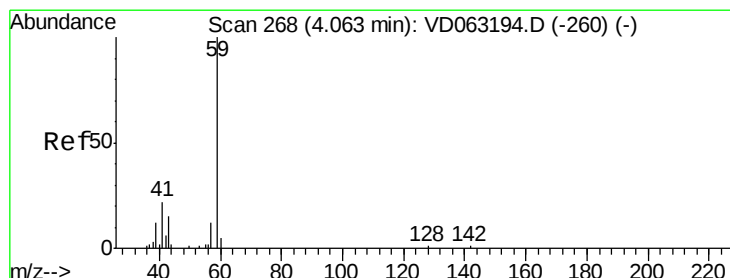
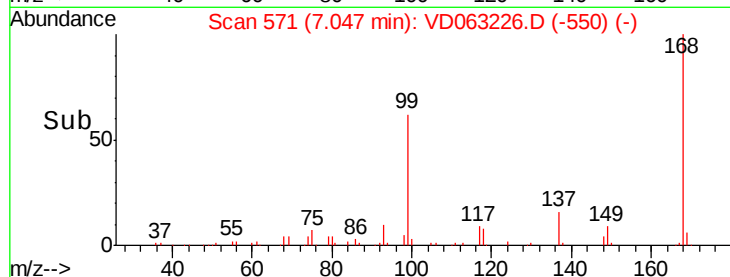
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 48.558 ug/l

RT: 3.99 min Scan# 261

Delta R.T. -0.07 min

Lab File: VD063226.D

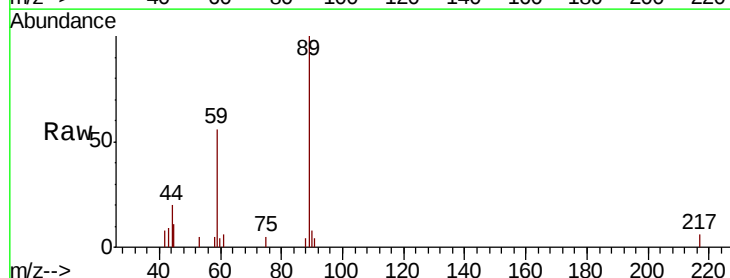
Acq: 30 Jul 2019 5:22

Tgt Ion: 59 Resp: 15626

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

5000

4000

3000

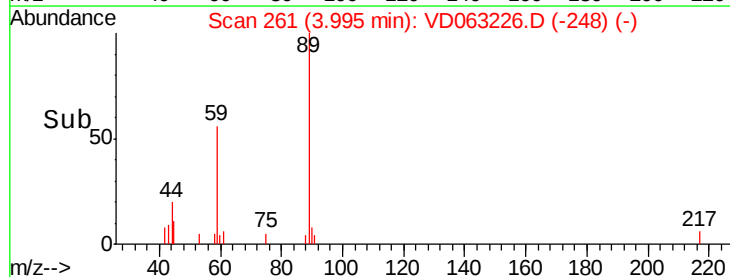
2000

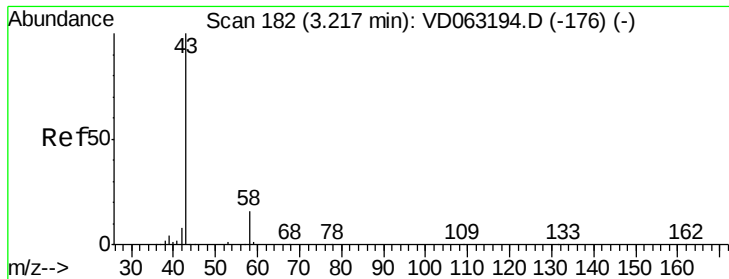
1000

0

Time-->

3.90 4.00 4.10





#16

Acetone

Concen: 11.469 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

Instrument :

MSVOA_D

ClientSampleId :

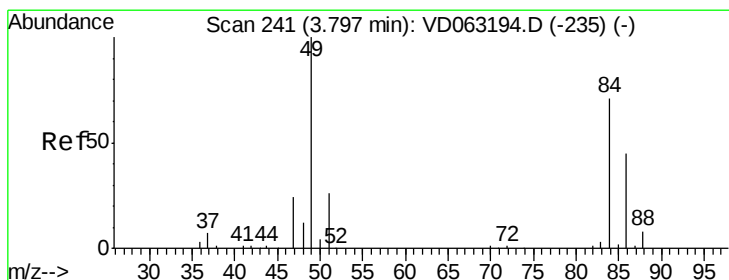
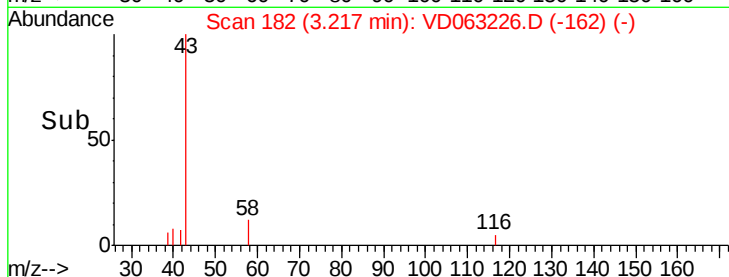
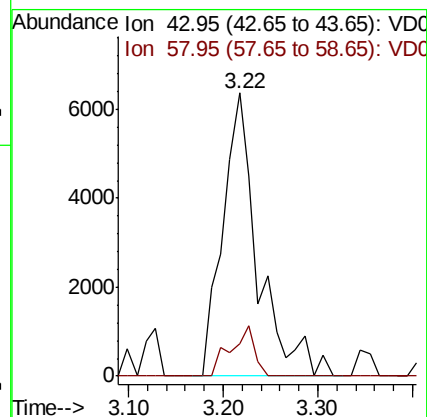
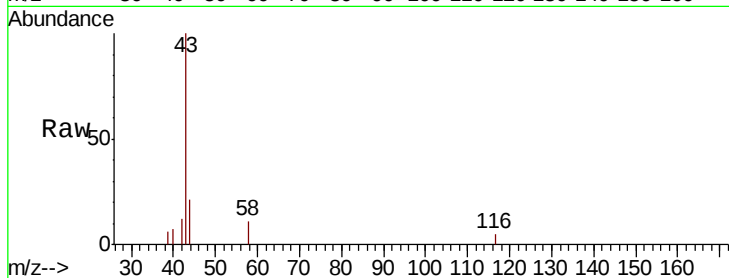
OK-01-072919

Tot Ion: 43 Resp: 16386

Ion Ratio Lower Upper

43 100

58 11.4 13.0 19.4#



#20

Methylene Chloride

Concen: 2.787 ug/l

RT: 3.80 min Scan# 241

Delta R.T. 0.00 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

Tgt Ion: 84 Resp: 16093

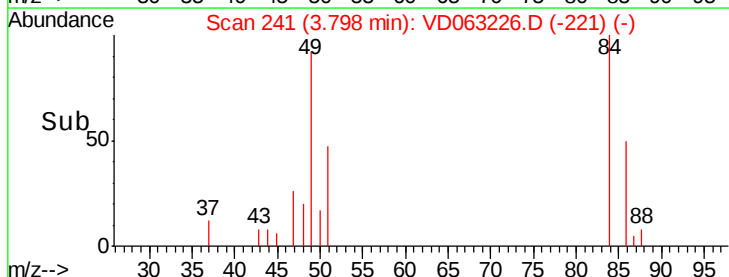
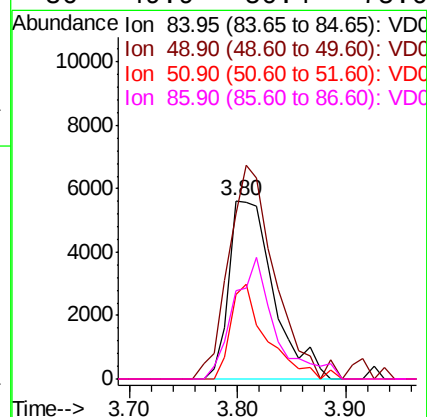
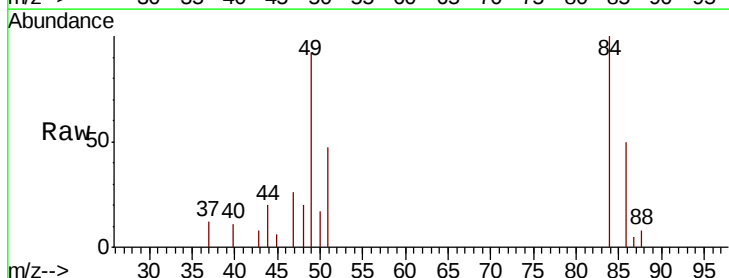
Ion Ratio Lower Upper

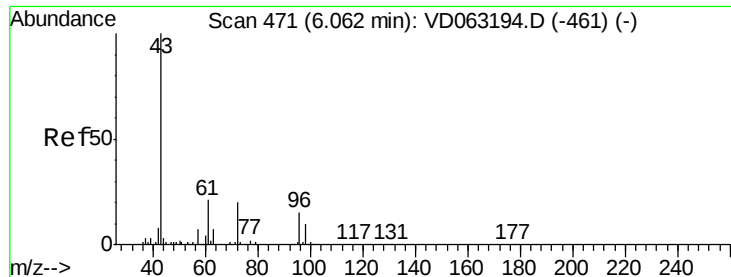
84 100

49 92.5 112.5 168.7#

51 47.2 29.6 44.4#

86 49.9 50.4 75.6#





#25

2-Butanone

Concen: 7.235 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.10 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

Instrument :

MSVOA_D

ClientSampleId :

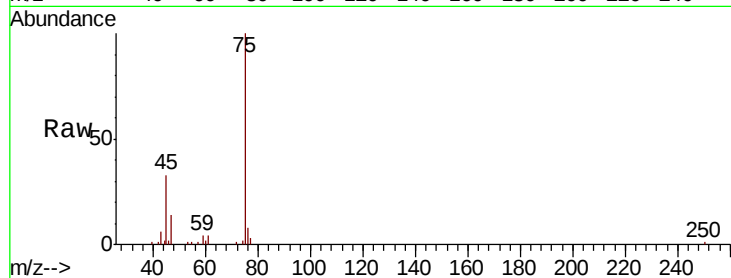
OK-01-072919

Tot Ion: 43 Resp: 10374

Ion Ratio Lower Upper

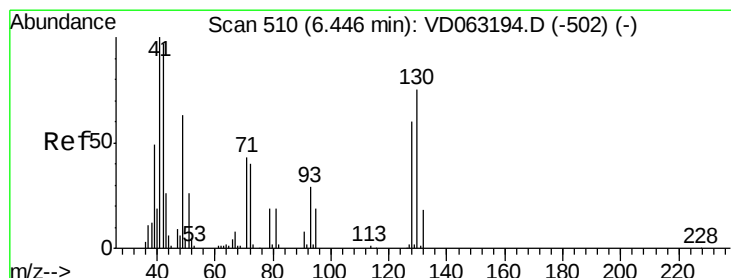
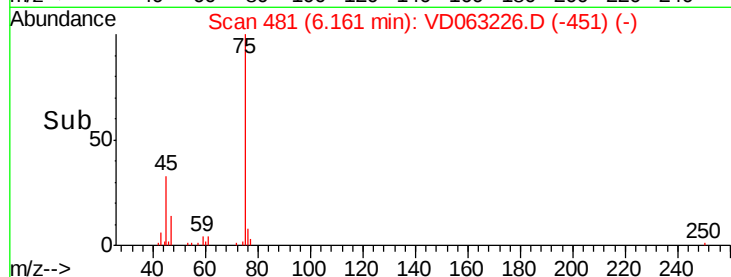
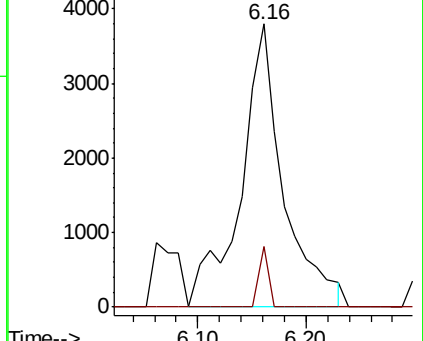
43 100

72 21.4 16.3 24.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.180 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

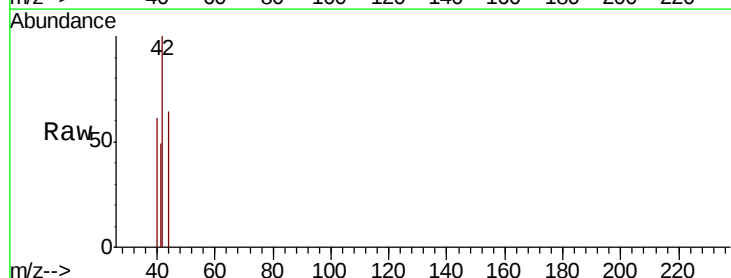
Tgt Ion: 42 Resp: 1480

Ion Ratio Lower Upper

42 100

72 12.4 33.4 50.2#

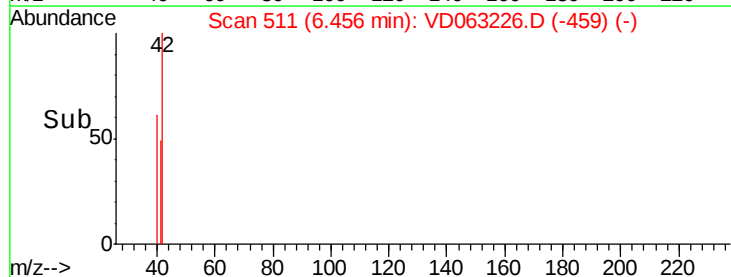
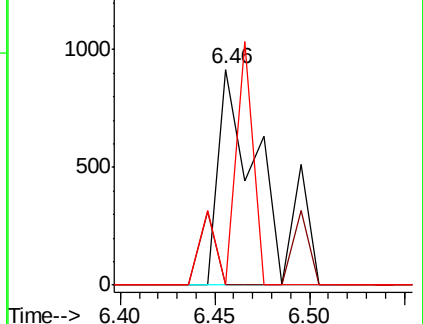
71 53.9 35.7 53.5#

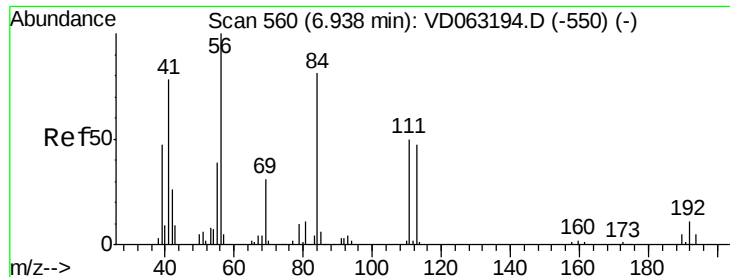


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 2.253 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.09 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

Instrument :

MSVOA_D

ClientSampleId :

OK-01-072919

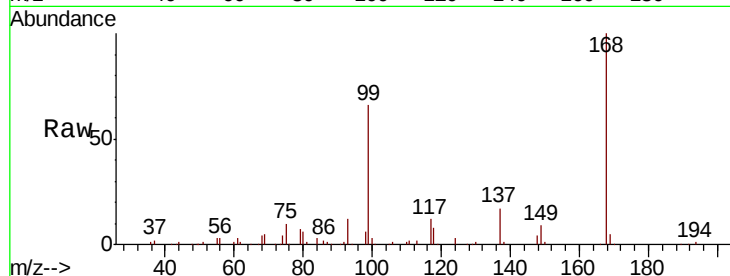
Tot Ion: 56 Resp: 14716

Ion Ratio Lower Upper

56 100

69 137.3 24.5 36.7#

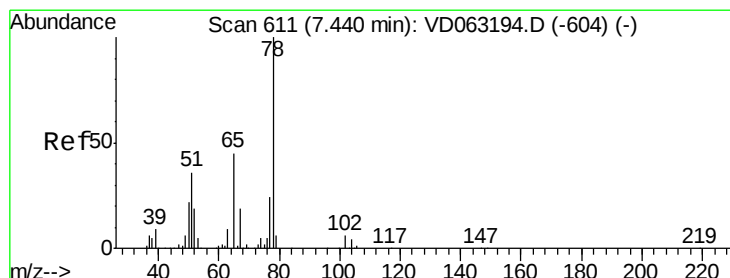
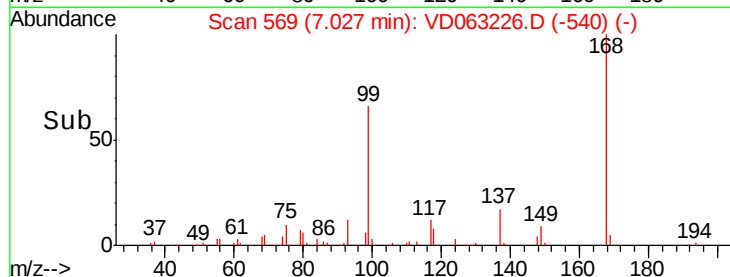
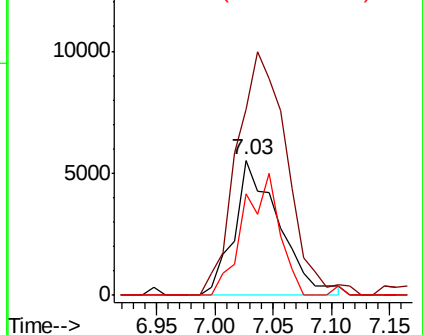
84 74.8 64.9 97.3



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: 60.063 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063226.D

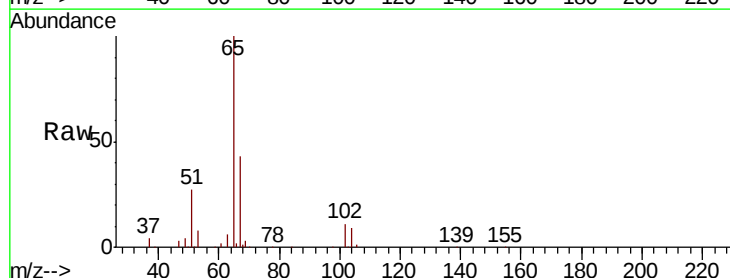
Acq: 30 Jul 2019 5:22

Tgt Ion: 65 Resp: 440434

Ion Ratio Lower Upper

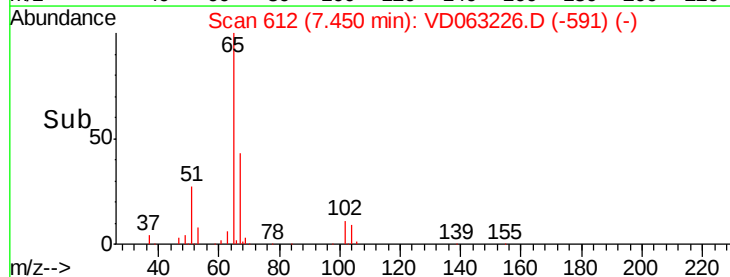
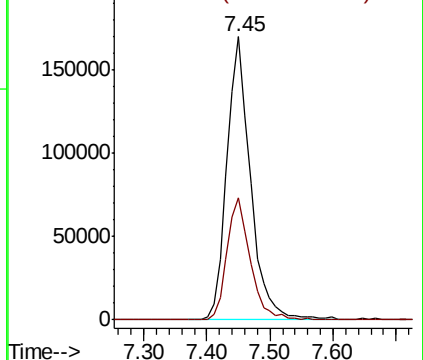
65 100

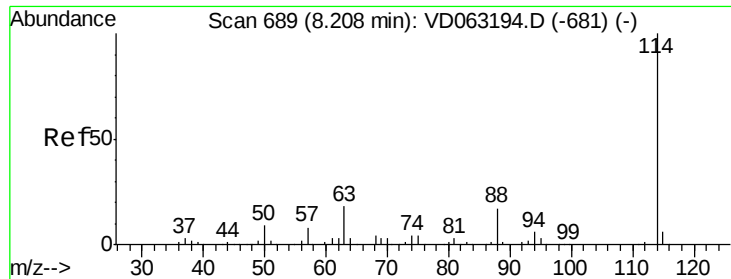
67 43.1 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

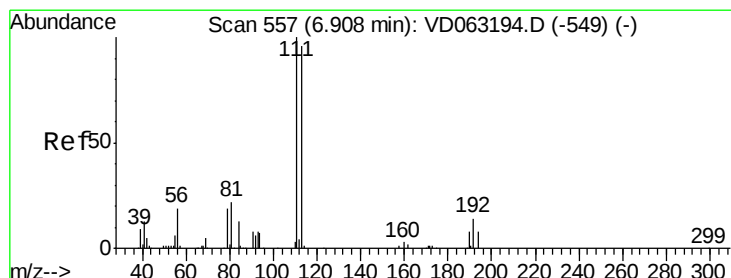
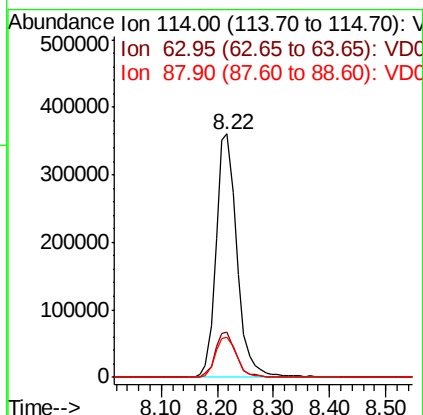
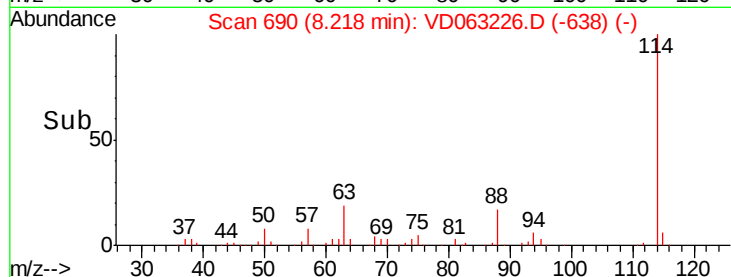
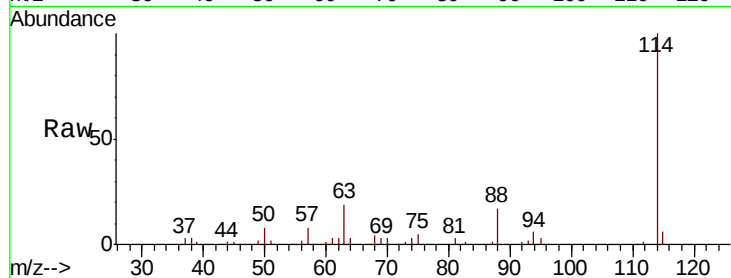




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063226.D
 Acq: 30 Jul 2019 5:22

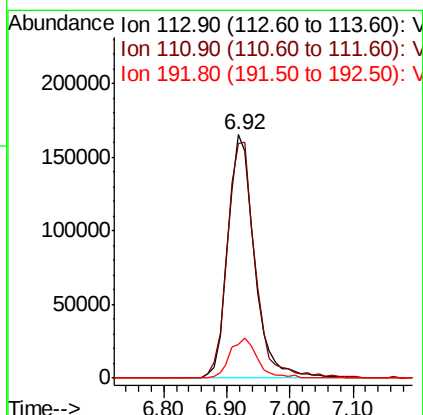
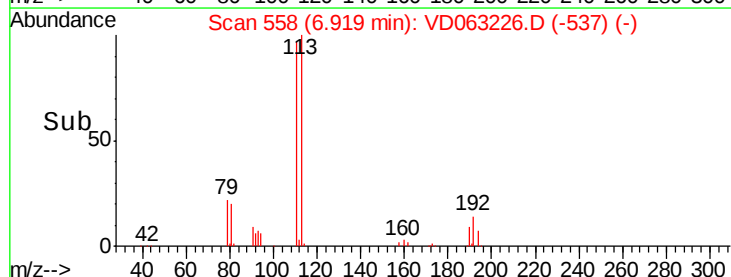
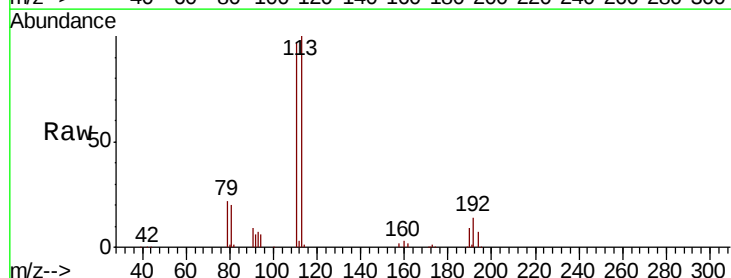
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-01-072919

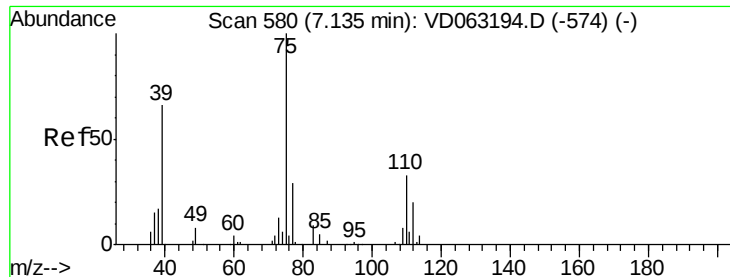
Tot Ion:114 Resp: 941608
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 35.2
 88 16.6 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 60.072 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063226.D
 Acq: 30 Jul 2019 5:22

Tgt Ion:113 Resp: 482939
 Ion Ratio Lower Upper
 113 100
 111 96.6 83.2 124.8
 192 14.0 11.8 17.8





#36

1,1-Dichloropropene

Concen: 6.250 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

Instrument :

MSVOA_D

ClientSampleId :

OK-01-072919

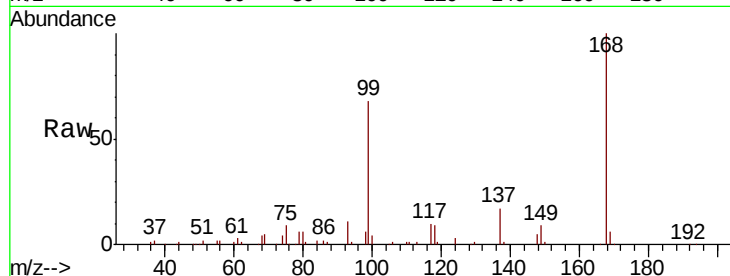
Tot Ion: 75 Resp: 53706

Ion Ratio Lower Upper

75 100

110 6.0 16.1 48.2#

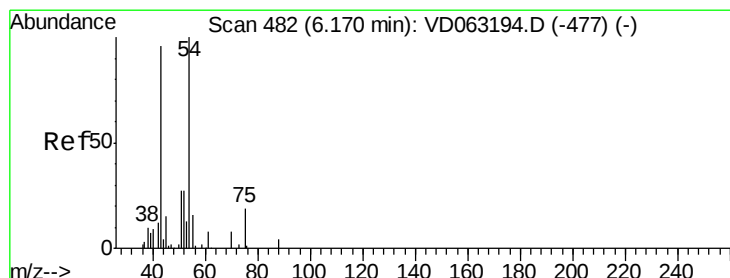
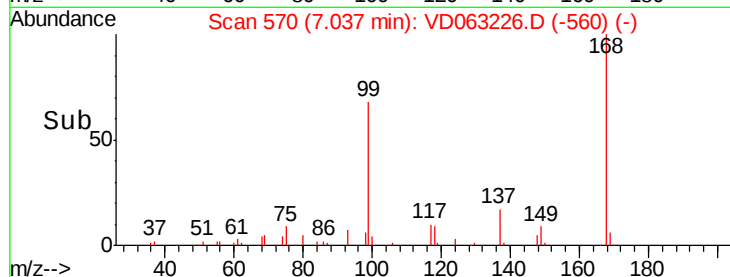
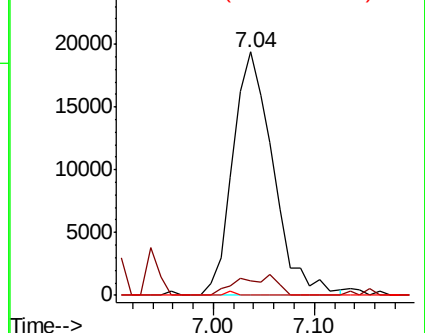
77 0.0 22.7 34.1#



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: 2.687 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.01 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

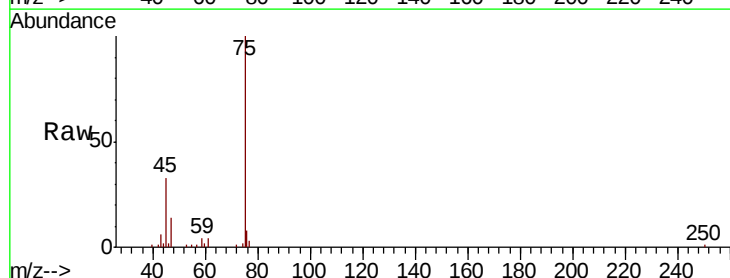
Tgt Ion: 43 Resp: 10374

Ion Ratio Lower Upper

43 100

61 69.4 11.3 16.9#

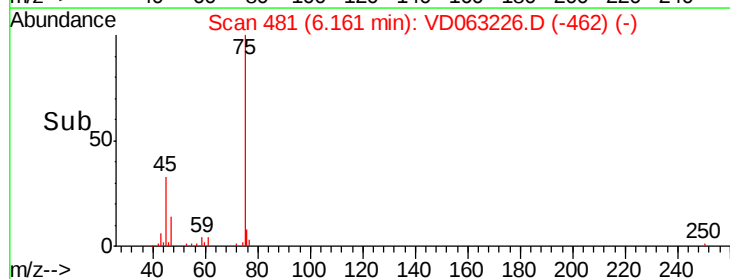
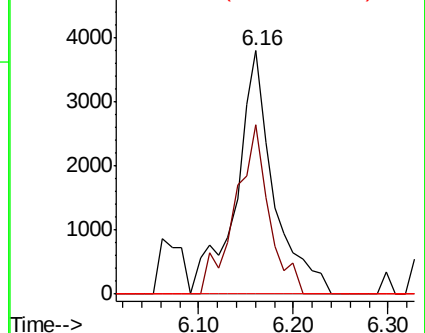
70 0.0 5.1 7.7#

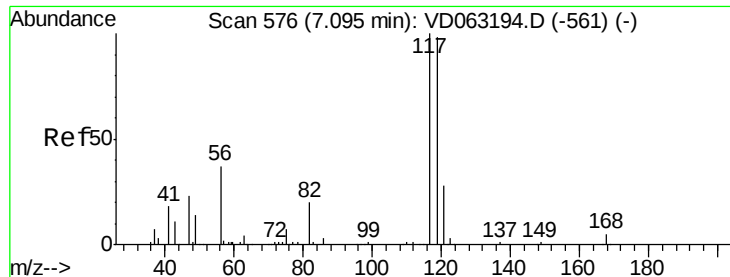


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.216 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063226.D

Acq: 30 Jul 2019 5:22

Instrument :

MSVOA_D

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OK-01-072919

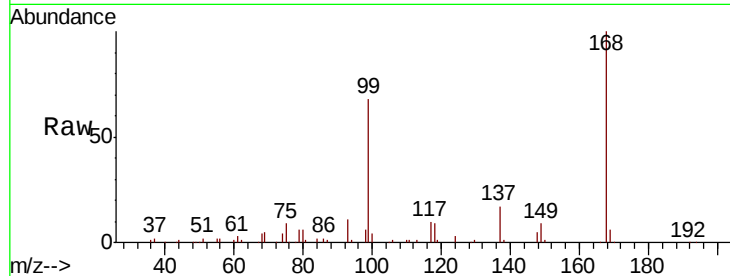
Tot Ion:117 Resp: 67482

Ion Ratio Lower Upper

117 100

119 7.3 78.2 117.2#

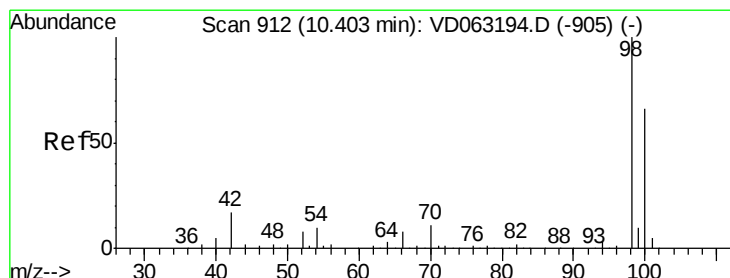
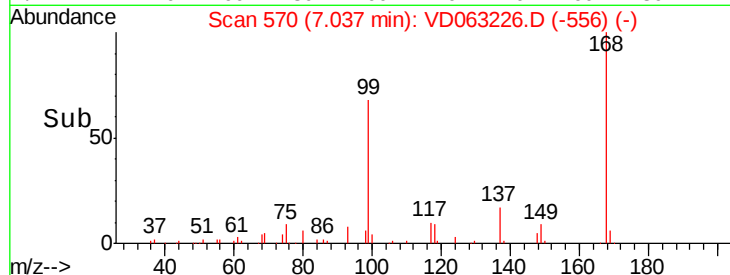
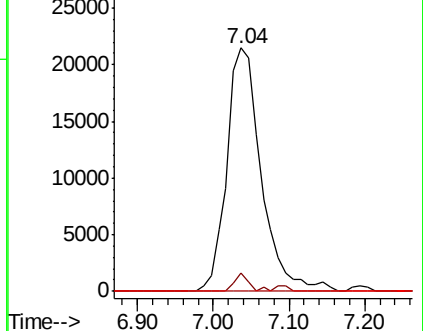
121 0.0 22.1 33.1#



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: 45.242 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063226.D

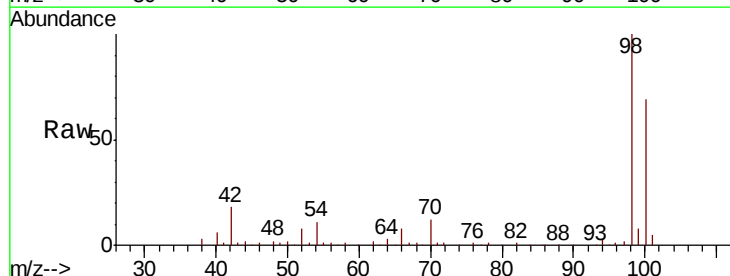
Acq: 30 Jul 2019 5:22

Tgt Ion: 98 Resp: 813994

Ion Ratio Lower Upper

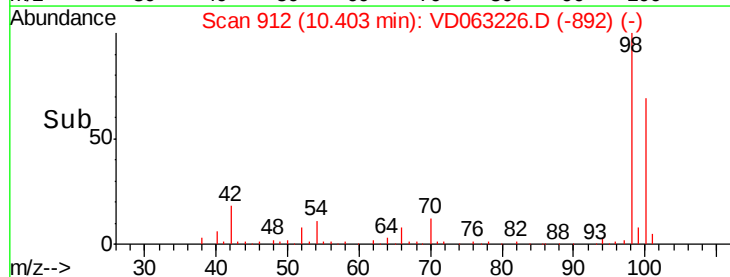
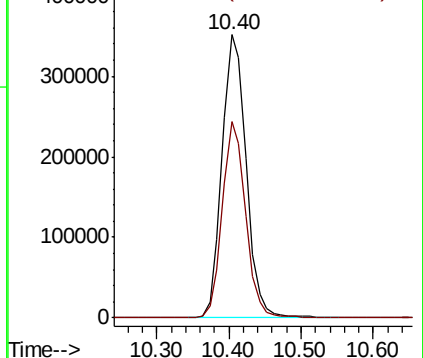
98 100

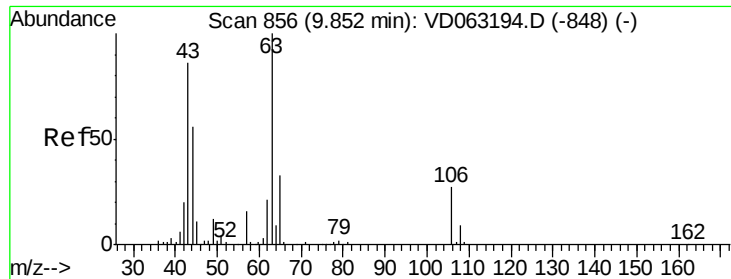
100 69.1 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

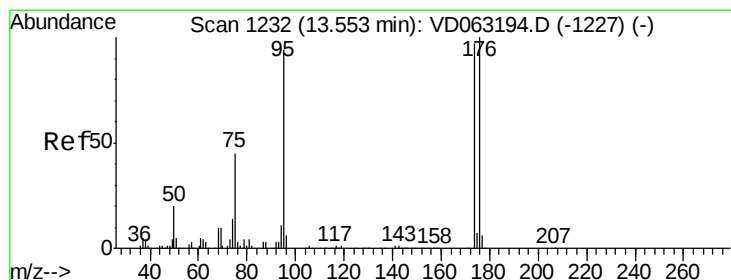
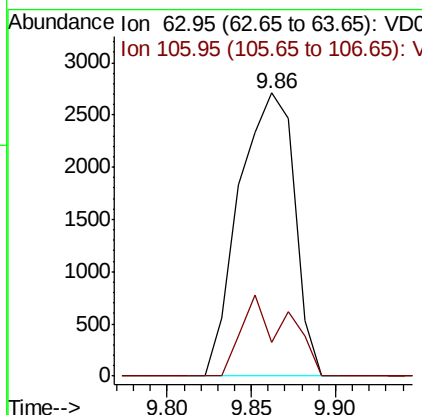
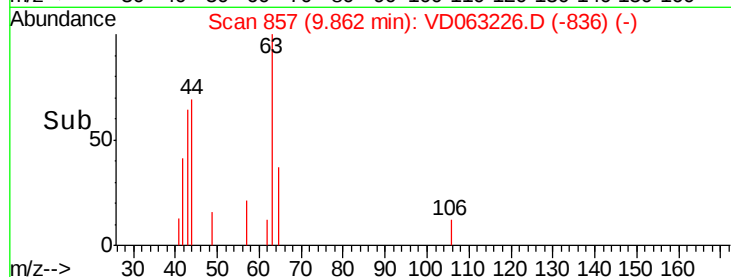
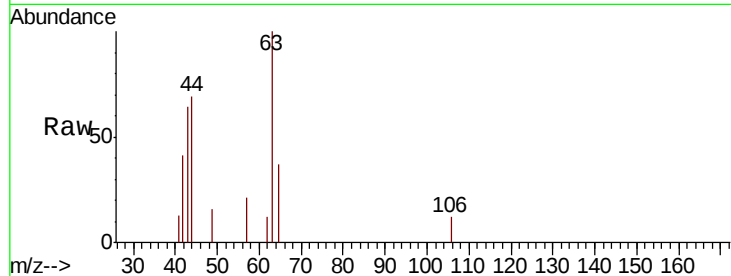




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.669 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VD063226.D
 Acq: 30 Jul 2019 5:22

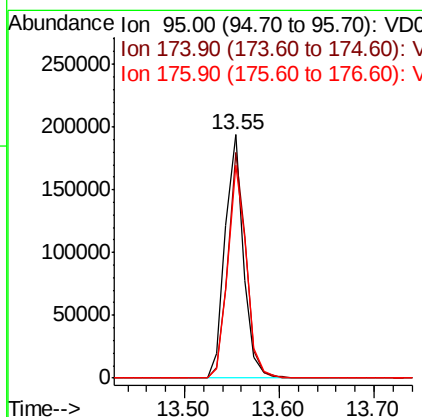
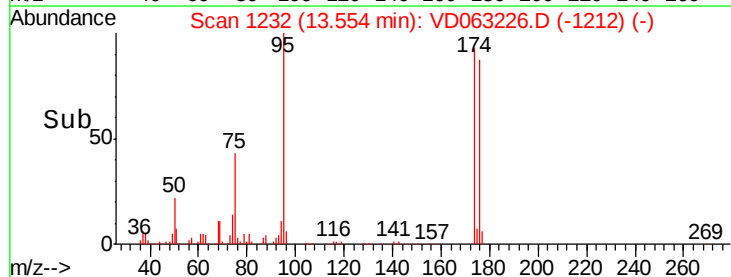
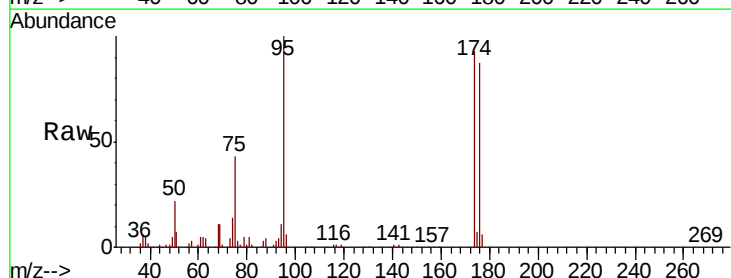
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-01-072919

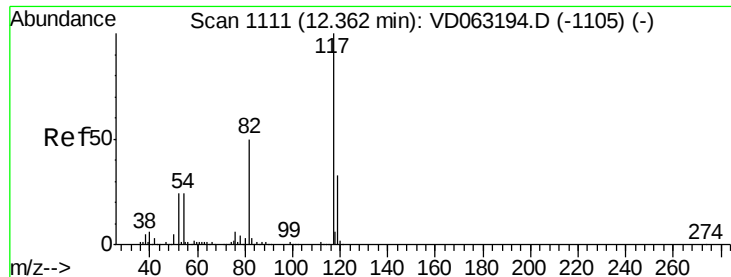
Tot Ion: 63 Resp: 6153
 Ion Ratio Lower Upper
 63 100
 106 12.0 22.0 33.0#



#62
 4-Bromofluorobenzene
 Concen: 31.671 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD063226.D
 Acq: 30 Jul 2019 5:22

Tgt Ion: 95 Resp: 259664
 Ion Ratio Lower Upper
 95 100
 174 92.7 0.0 205.4
 176 87.5 0.0 211.8

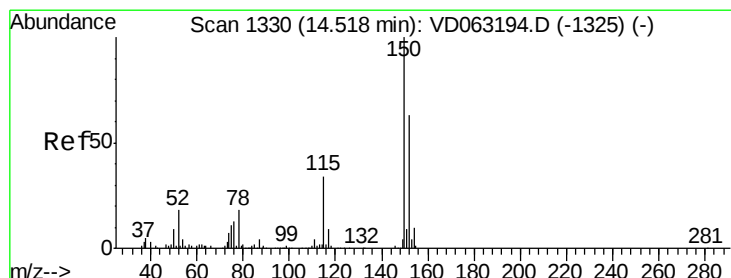
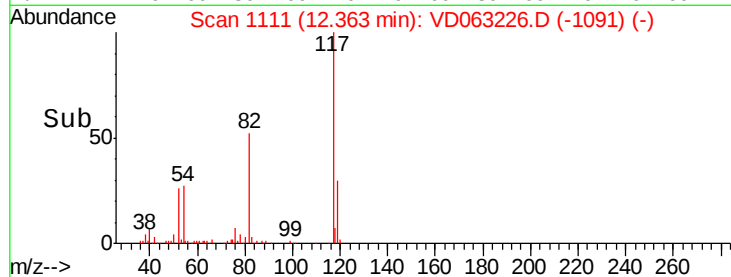
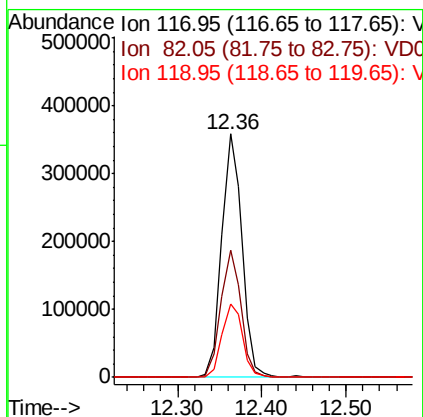
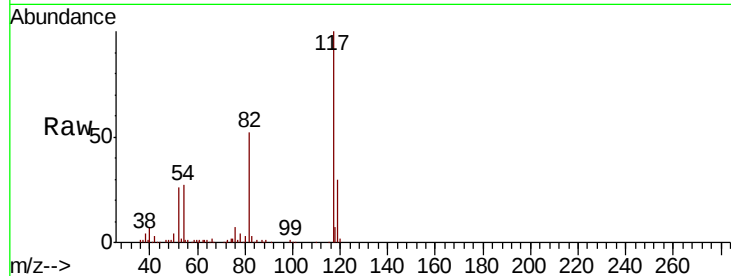




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063226.D
Acq: 30 Jul 2019 5:22

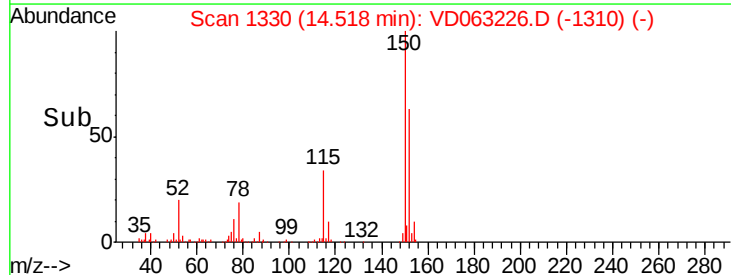
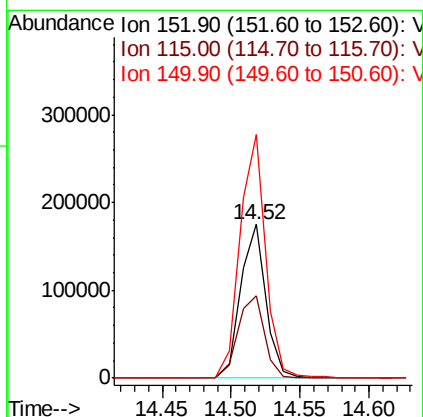
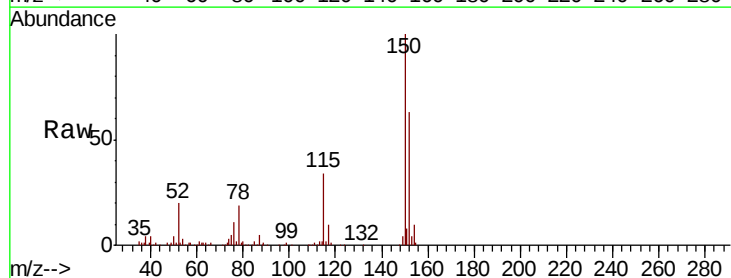
Instrument :
MSVOA_D
ClientSampleId :
OK-01-072919

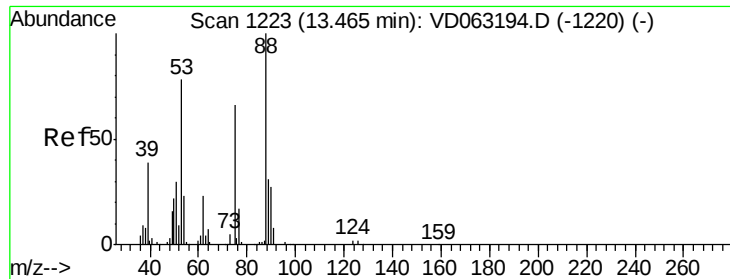
Tot Ion:117 Resp: 600870
Ion Ratio Lower Upper
117 100
82 52.3 40.1 60.1
119 29.9 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063226.D
Acq: 30 Jul 2019 5:22

Tgt Ion:152 Resp: 223425
Ion Ratio Lower Upper
152 100
115 53.2 27.5 82.4
150 158.6 0.0 320.6

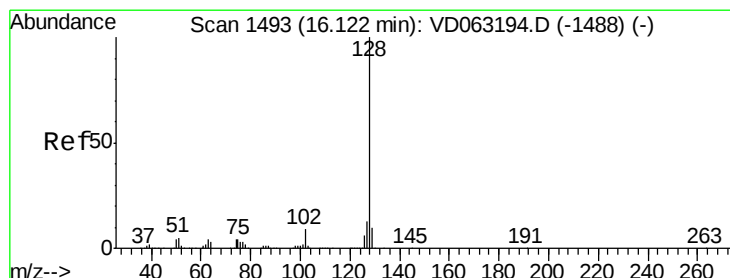
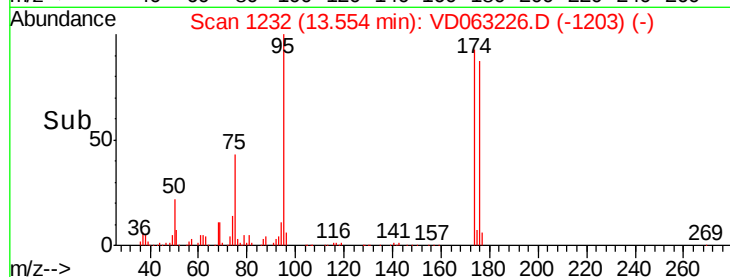
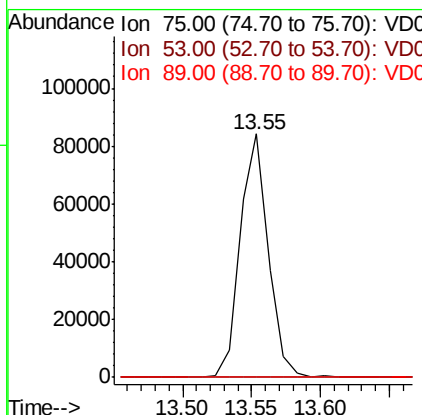
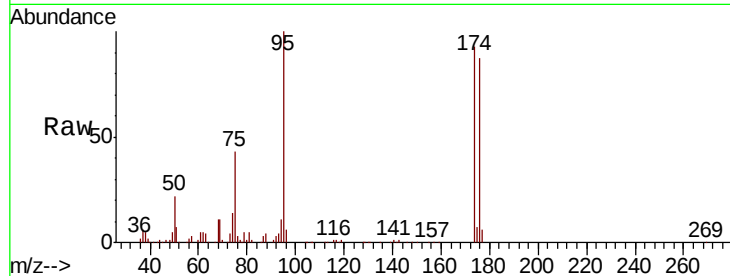




#81
trans-1,4-Dichloro-2-butene
Concen: 160.372 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.09 min
Lab File: VD063226.D
Acq: 30 Jul 2019 5:22

Instrument :
MSVOA_D
ClientSampleId :
OK-01-072919

Tot Ion: 75 Resp: 119507
Ion Ratio Lower Upper
75 100
53 0.0 94.9 142.3#
89 0.0 37.4 56.0#



#95
Naphthalene
Concen: 2.119 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063226.D
Acq: 30 Jul 2019 5:22

Tgt Ion:128 Resp: 14648
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 12.1 7.8 11.8#

