

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061525.D
 Acq On : 2 Apr 2019 20:16
 Operator : VA/AP
 Sample : K2178-07RE
 Misc : 4.88g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 03 01:55:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	401481	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	743333	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	481348	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	107465	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	217736	63.49	ug/l	0.02
Spiked Amount			Recovery	=	126.98%	
35) Dibromofluoromethane	6.93	113	32804	5.77	ug/l	0.03
Spiked Amount			Recovery	=	11.54%	
50) Toluene-d8	10.42	98	578012	42.43	ug/l	0.04
Spiked Amount			Recovery	=	84.86%	
62) 4-Bromofluorobenzene	13.56	95	178528	34.17	ug/l	0.02
Spiked Amount			Recovery	=	68.34%	

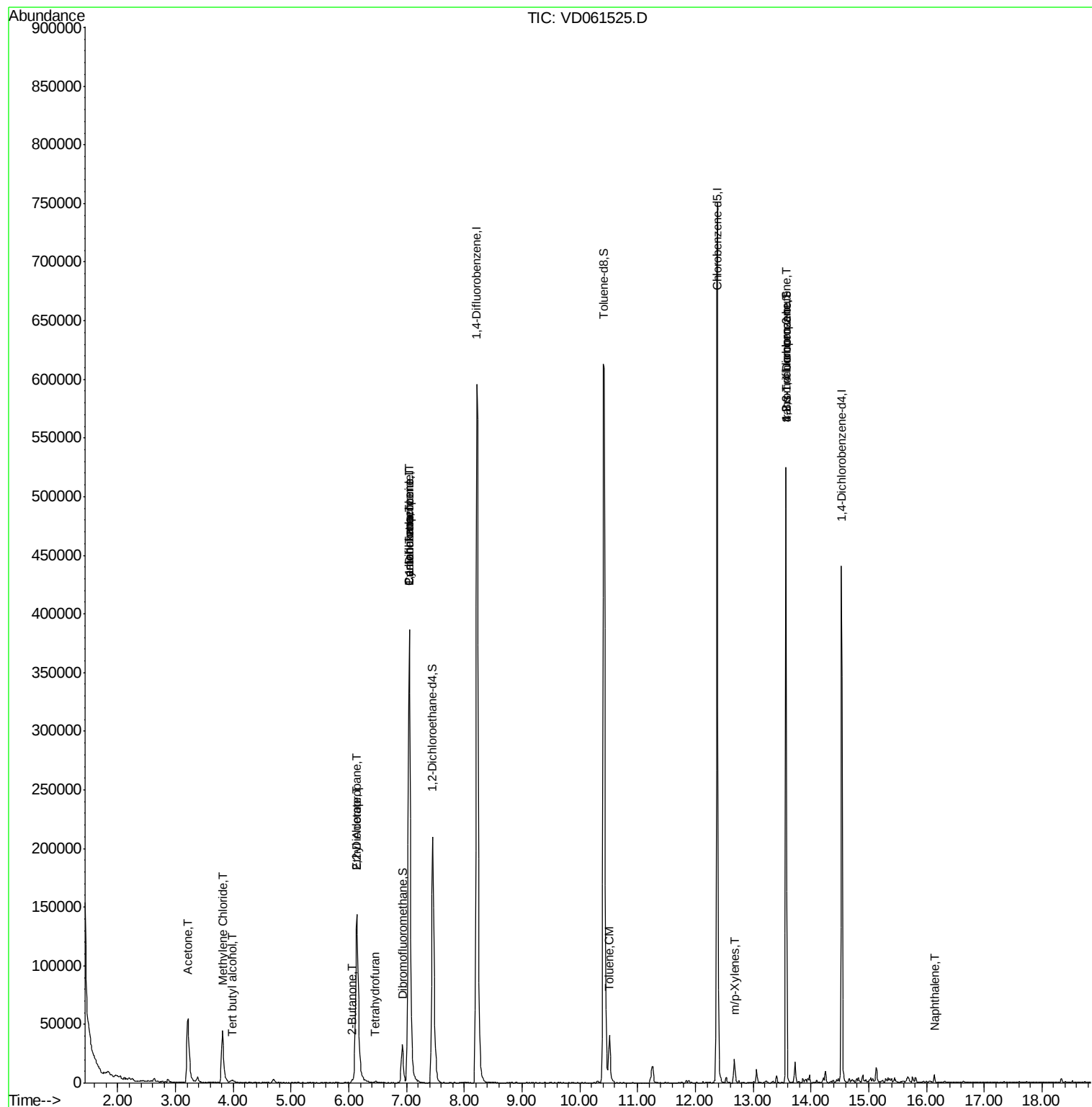
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.98	59	3172	14.851	ug/l #	76
16) Acetone	3.21	43	113346	128.563	ug/l	96
20) Methylene Chloride	3.82	84	31617	4.661	ug/l	91
25) 2-Butanone	6.06	43	5519	4.976	ug/l #	83
26) 2,2-Dichloropropane	6.14	77	10726	1.805	ug/l #	50
29) Tetrahydrofuran	6.46	42	1035	1.925	ug/l #	30
31) Cyclohexane	7.04	56	6362	1.077	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	30618	4.719	ug/l #	45
37) Ethyl Acetate	6.14	43	10651	3.839	ug/l #	13
38) Carbon Tetrachloride	7.05	117	37876	5.081	ug/l #	13
52) Toluene	10.51	92	23800	2.396	ug/l	98
68) m/p-Xylenes	12.68	106	7355	1.293	ug/l	82
76) 1,2,3-Trichloropropane	13.56	75	68621	44.204	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	69468	146.769	ug/l #	18
95) Naphthalene	16.14	128	6623	3.097	ug/l	99

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

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QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.03 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

Instrument :

MSVOA_D

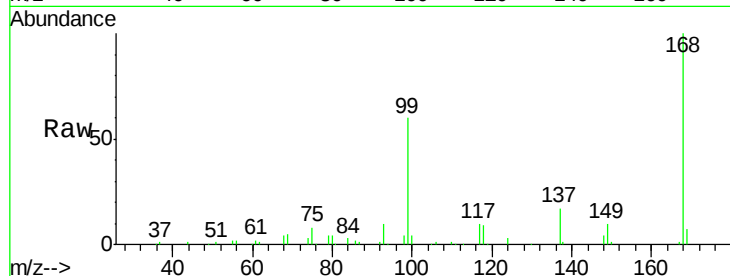
ClientSampleId :

Tot Ion:168 Resp: 401481

Ion Ratio Lower Upper

168 100

99 59.6 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

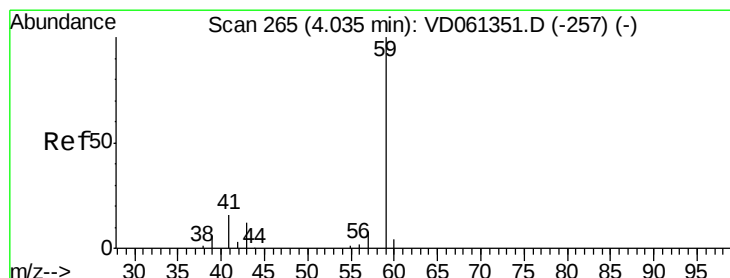
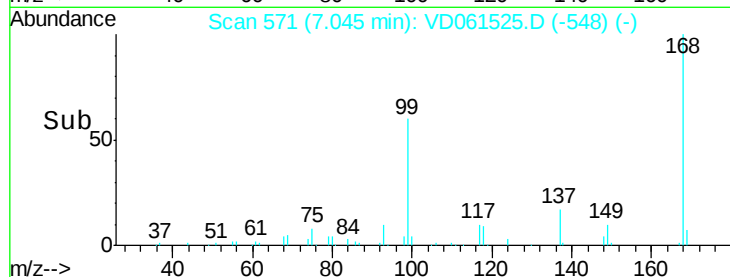
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 14.851 ug/l

RT: 3.98 min Scan# 260

Delta R.T. -0.05 min

Lab File: VD061525.D

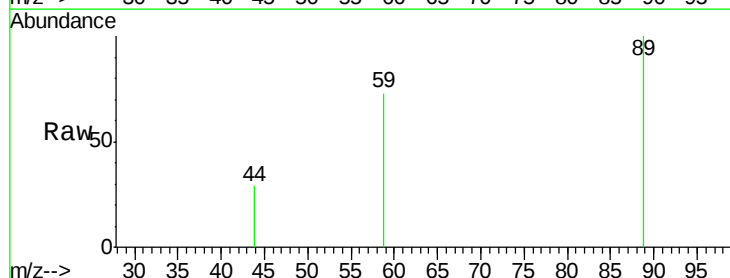
Acq: 2 Apr 2019 20:16

Tgt Ion: 59 Resp: 3172

Ion Ratio Lower Upper

59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.98

1000

800

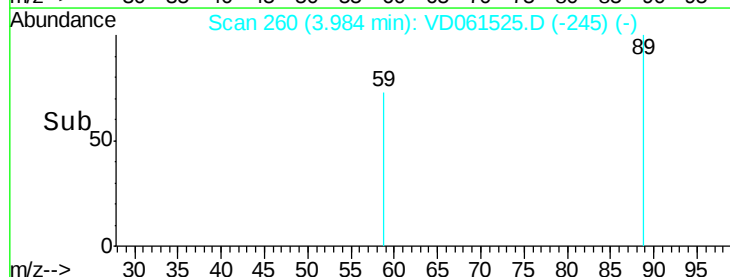
600

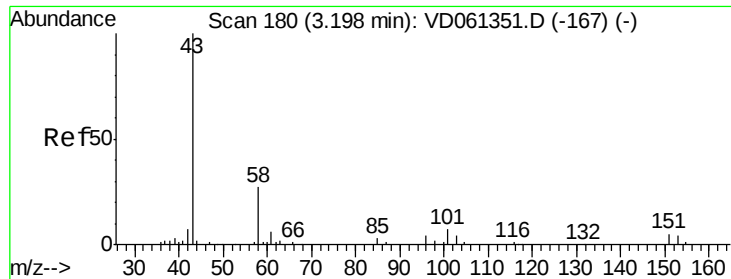
400

200

0

Time-->





#16

Acetone

Concen: 128.563 ug/l

RT: 3.21 min Scan# 181

Delta R.T. 0.01 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

Instrument :

MSVOA_D

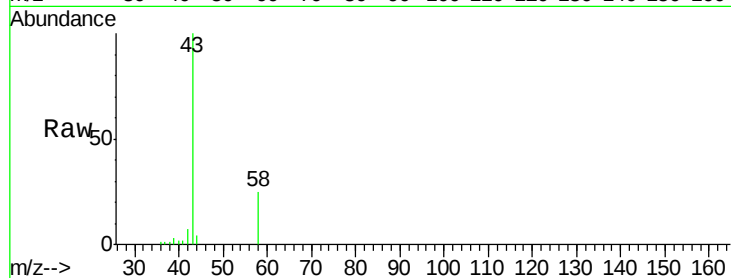
ClientSampleId :

Tot Ion: 43 Resp: 113346

Ion Ratio Lower Upper

43 100

58 24.8 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

40000

30000

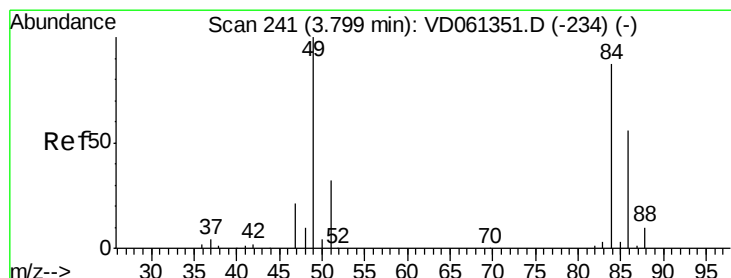
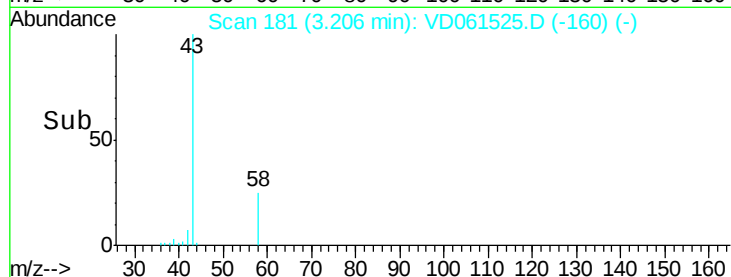
20000

10000

0

Time-->

3.10 3.20 3.30 3.40



#20

Methylene Chloride

Concen: 4.661 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

Tgt Ion: 84 Resp: 31617

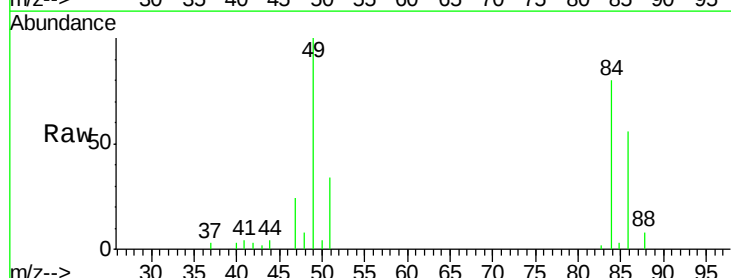
Ion Ratio Lower Upper

84 100

49 125.3 91.8 137.8

51 42.8 29.8 44.8

86 70.0 51.8 77.6



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

20000

15000

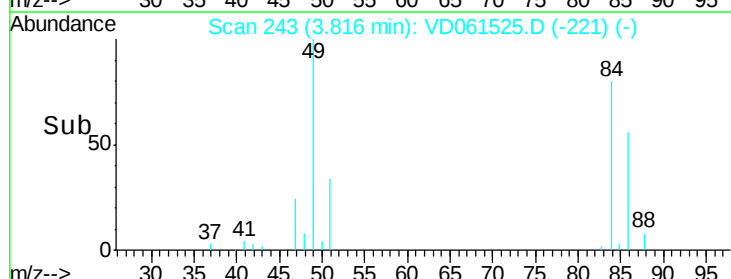
10000

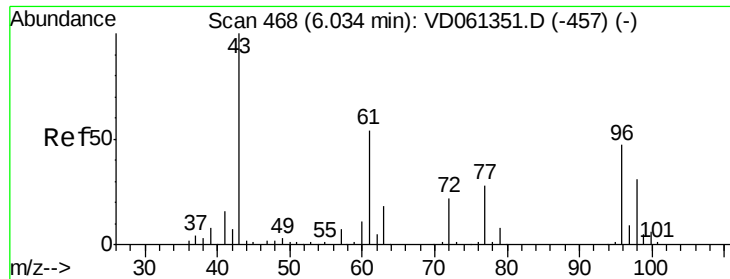
5000

0

Time-->

3.70 3.80 3.90





#25

2-Butanone

Concen: 4.976 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.03 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

Instrument :

MSVOA_D

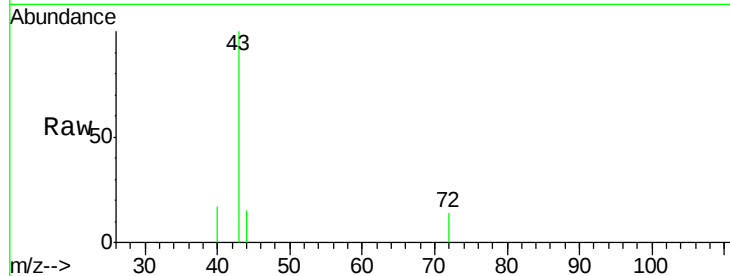
ClientSampleId :

Tot Ion: 43 Resp: 5519

Ion Ratio Lower Upper

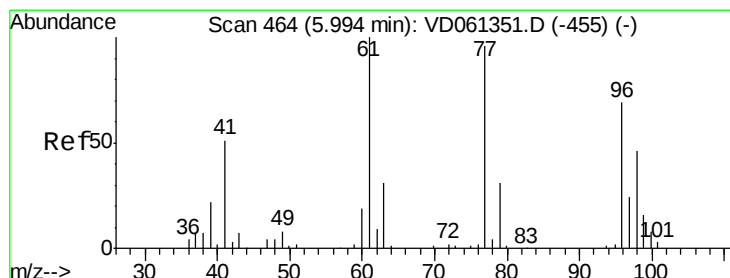
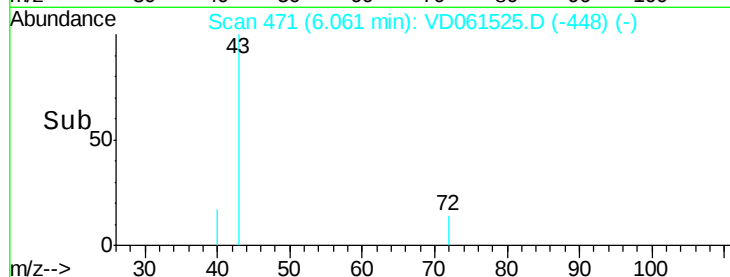
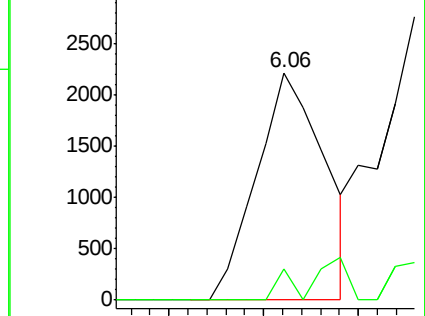
43 100

72 13.5 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.805 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.15 min

Lab File: VD061525.D

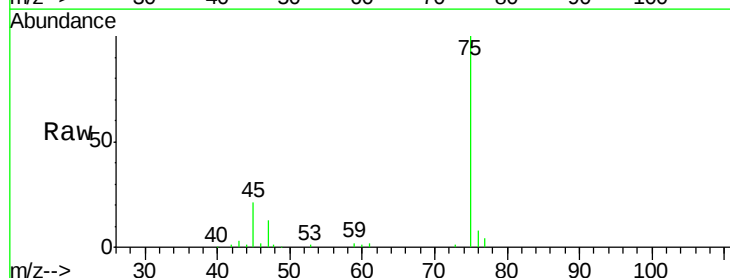
Acq: 2 Apr 2019 20:16

Tgt Ion: 77 Resp: 10726

Ion Ratio Lower Upper

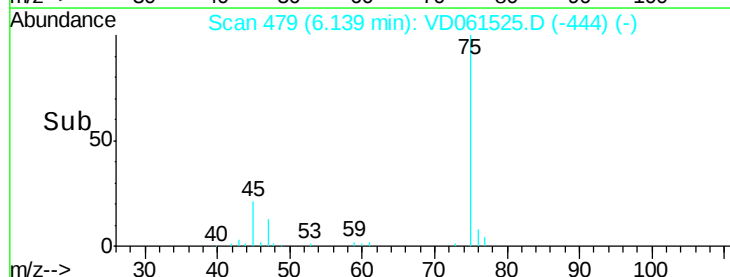
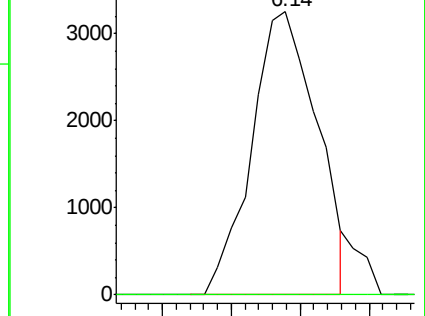
77 100

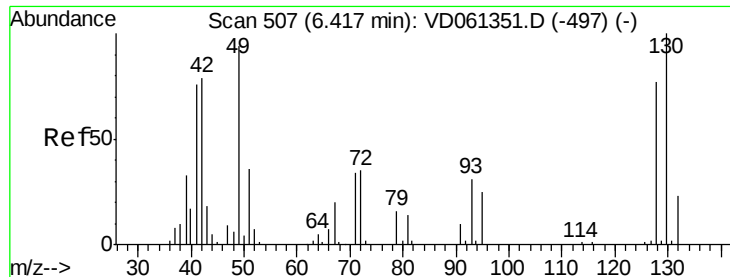
97 0.0 12.7 38.0#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 1.925 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.05 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

Instrument :

MSVOA_D

ClientSampleId :

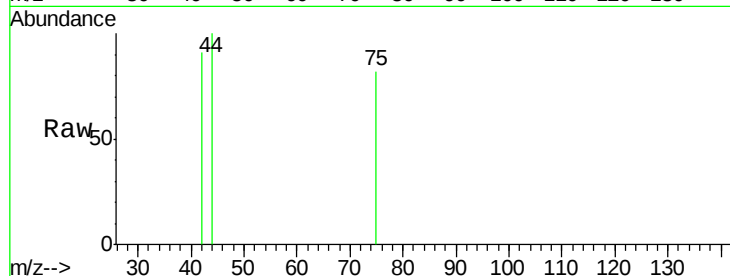
Tot Ion: 42 Resp: 1035

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

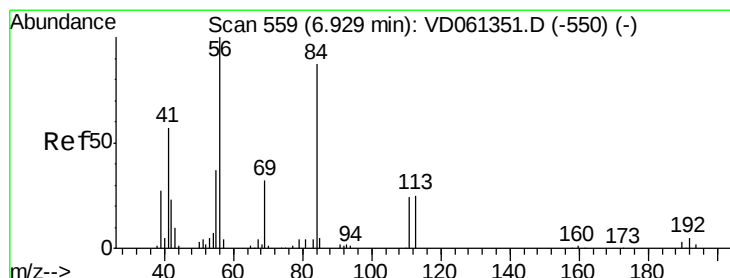
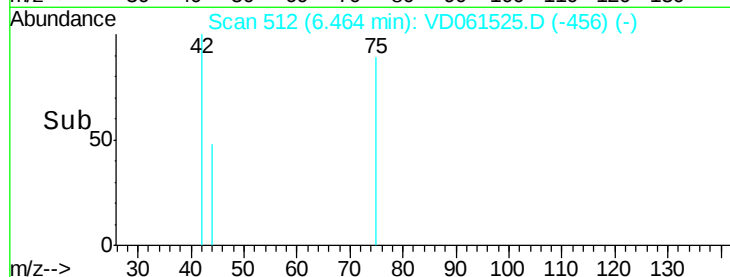
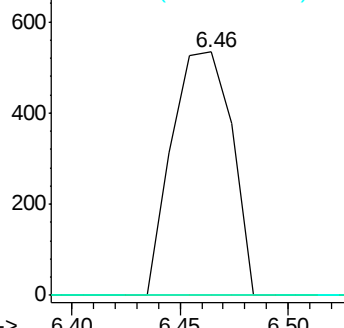
71 0.0 36.7 55.1#



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: 1.077 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

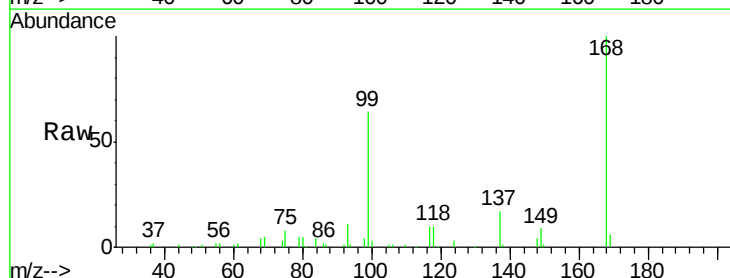
Tgt Ion: 56 Resp: 6362

Ion Ratio Lower Upper

56 100

69 204.6 25.7 38.5#

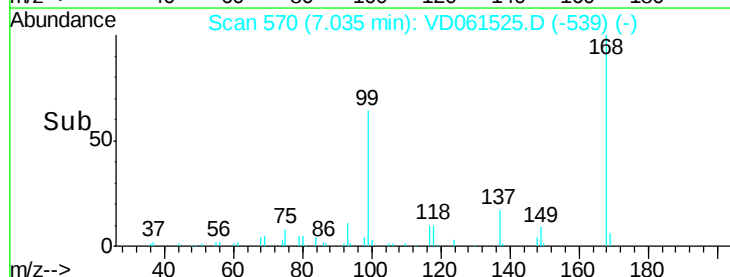
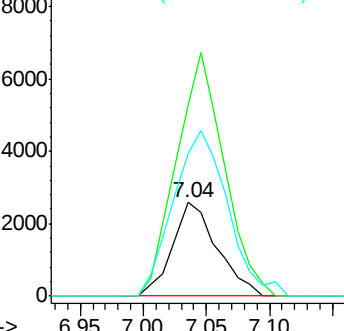
84 152.6 70.6 105.8#

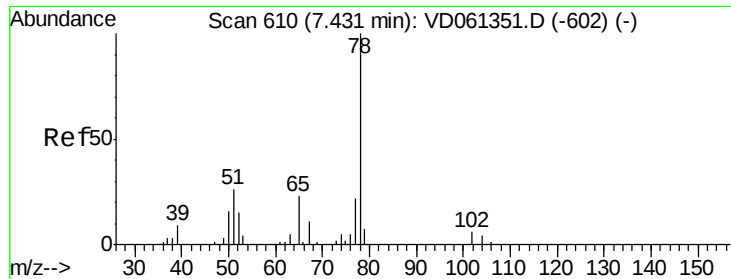


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

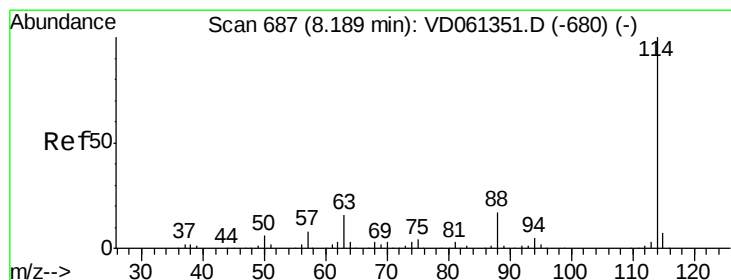
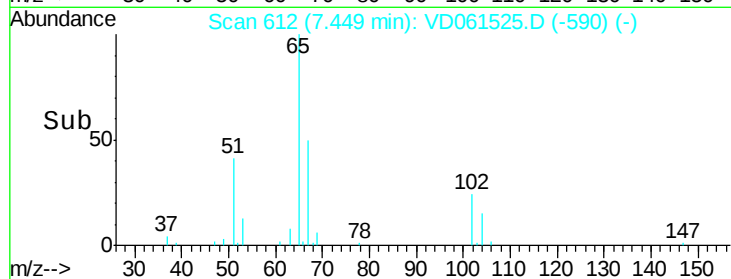
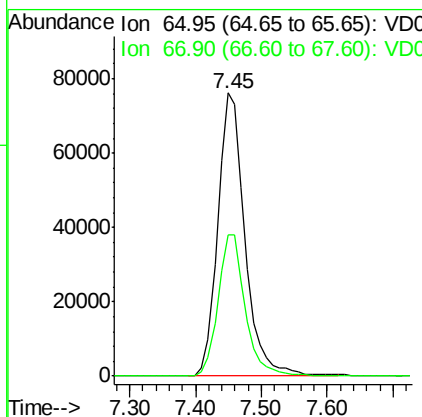
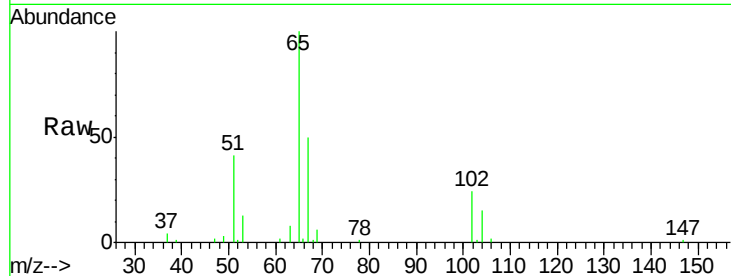




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.02 min
 Lab File: VD061525.D
 Acq: 2 Apr 2019 20:16

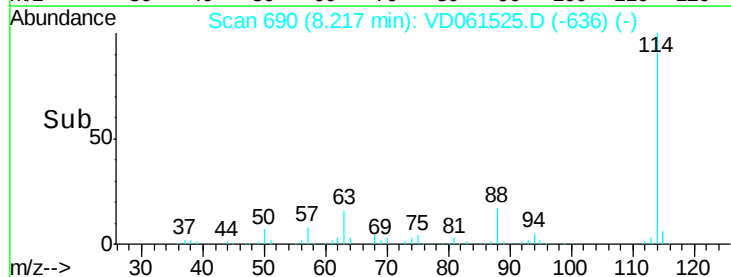
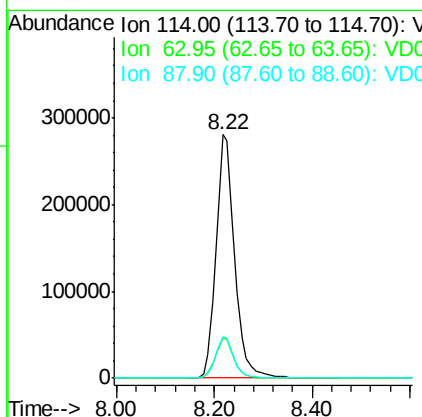
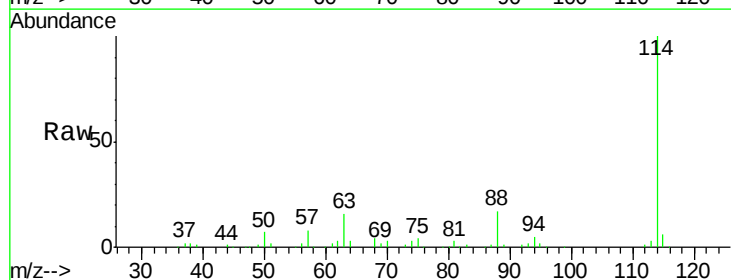
Instrument :
 MSVOA_D
 ClientSampled :

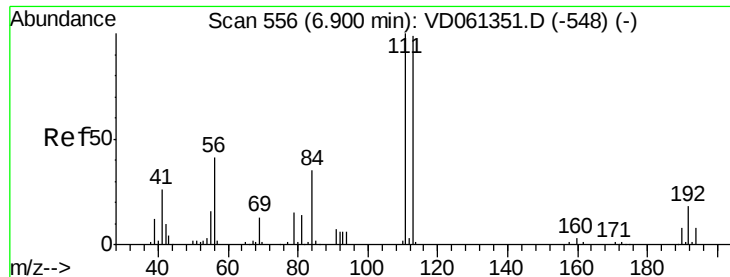
Tot Ion: 65 Resp: 217736
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.03 min
 Lab File: VD061525.D
 Acq: 2 Apr 2019 20:16

Tgt Ion: 114 Resp: 743333
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 31.6
 88 16.9 0.0 33.4

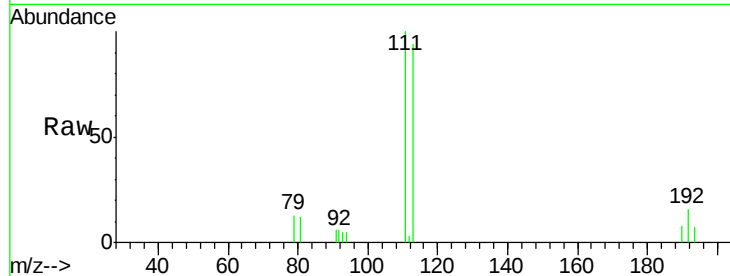




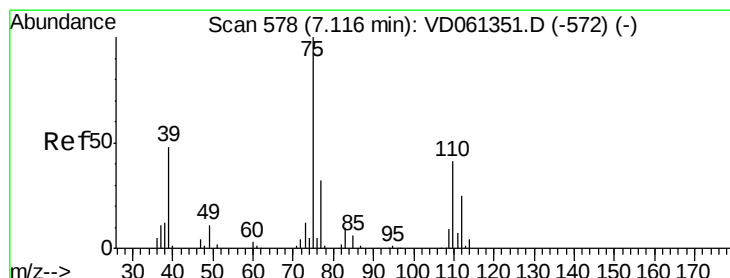
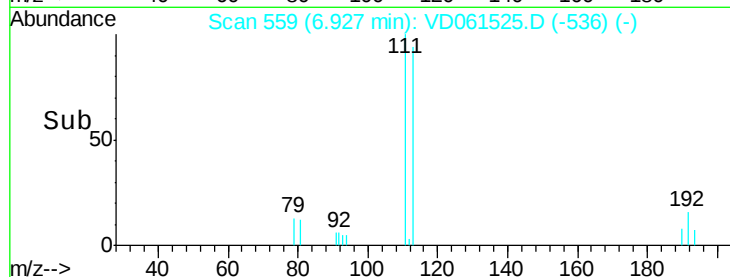
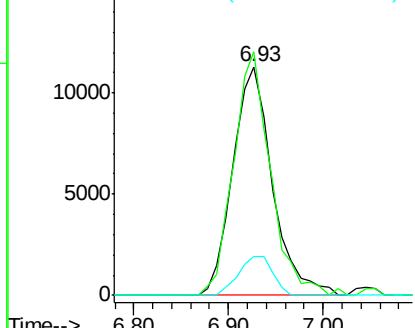
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.03 min
 Lab File: VD061525.D
 Acq: 2 Apr 2019 20:16

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 32804
 Ion Ratio Lower Upper
 113 100
 111 106.5 81.0 121.6
 192 17.2 14.4 21.6

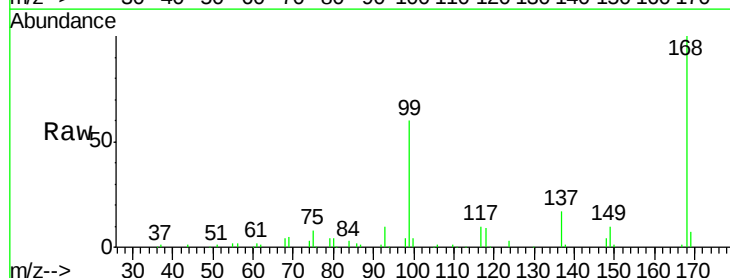


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

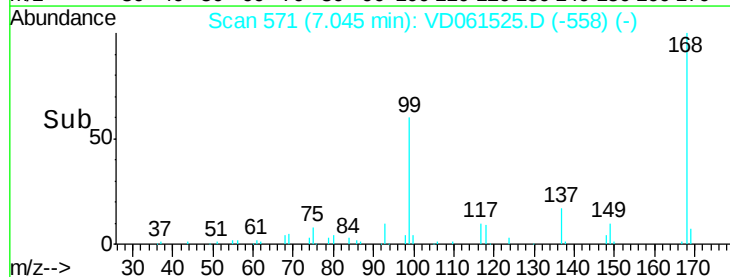
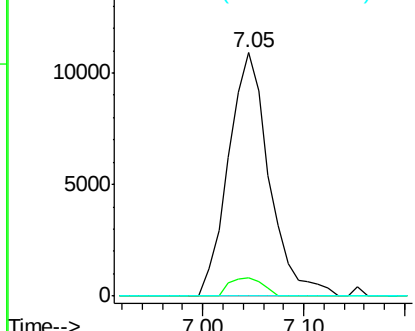


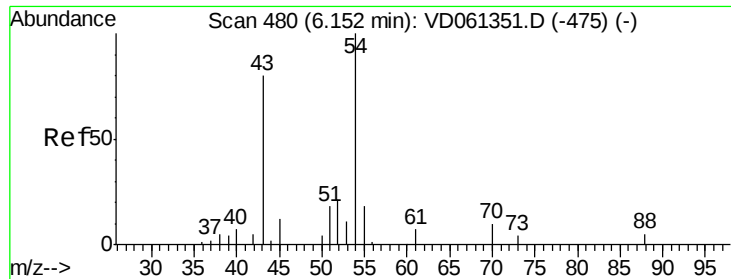
#36
 1,1-Dichloropropene
 Concen: 4.719 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD061525.D
 Acq: 2 Apr 2019 20:16

Tgt Ion: 75 Resp: 30618
 Ion Ratio Lower Upper
 75 100
 110 7.5 20.4 61.3#
 77 0.0 24.9 37.3#



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

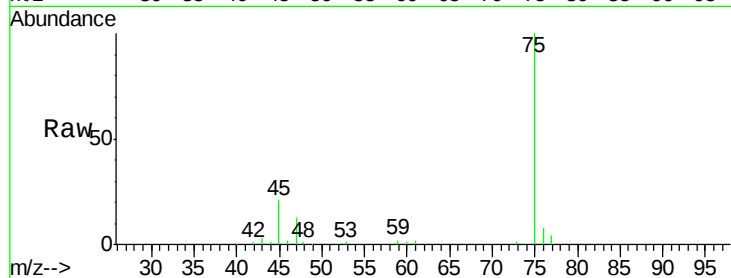




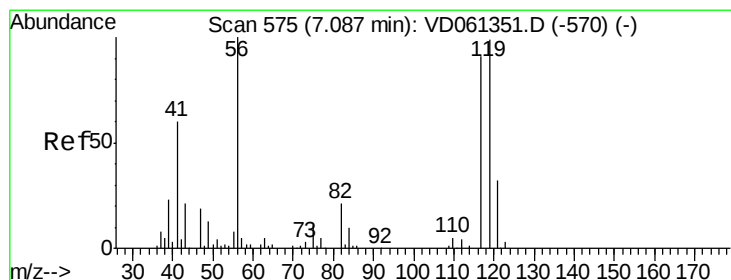
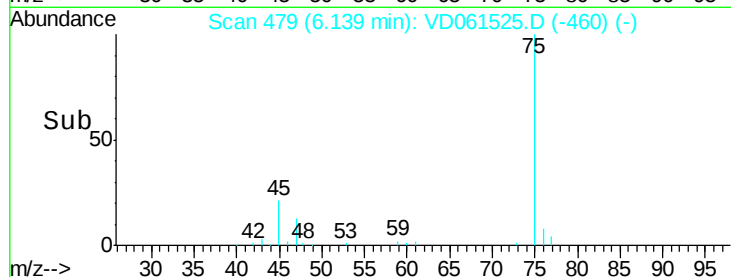
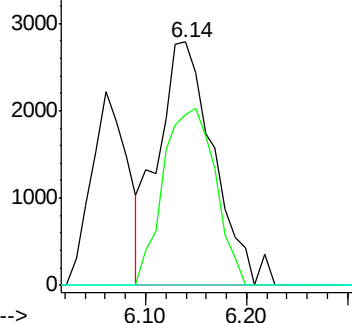
#37
Ethyl Acetate
Concen: 3.839 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.01 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 10651
Ion Ratio Lower Upper
43 100
61 70.3 13.8 20.8#
70 0.0 7.8 11.8#

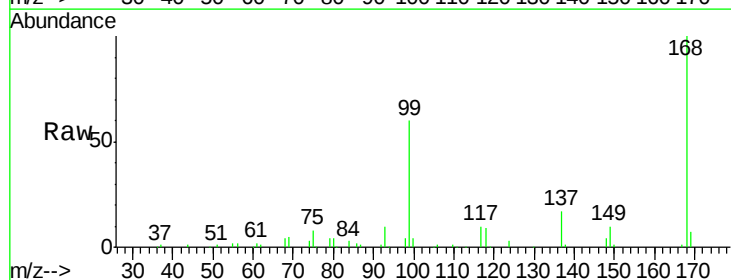


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

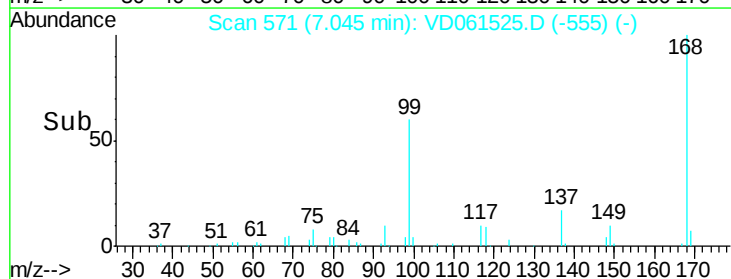
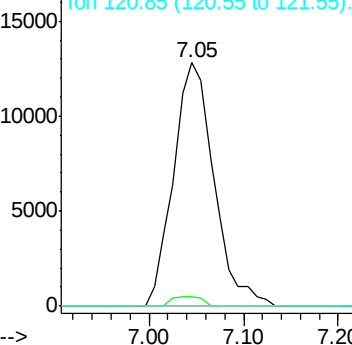


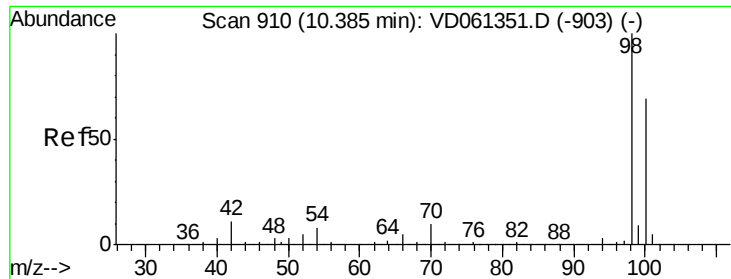
#38
Carbon Tetrachloride
Concen: 5.081 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.04 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Tgt Ion: 117 Resp: 37876
Ion Ratio Lower Upper
117 100
119 4.0 80.1 120.1#
121 0.0 25.6 38.4#



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

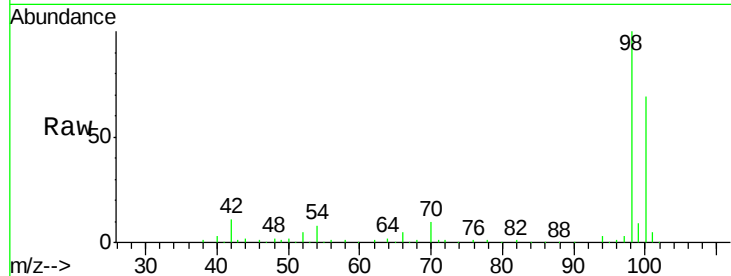




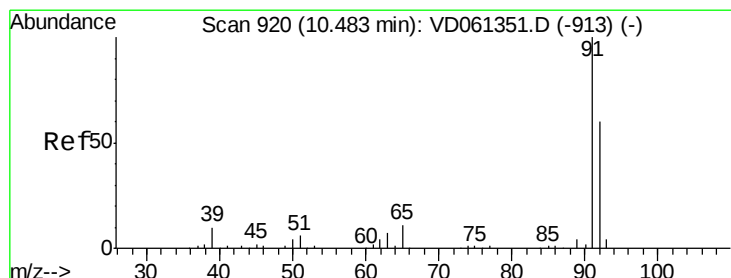
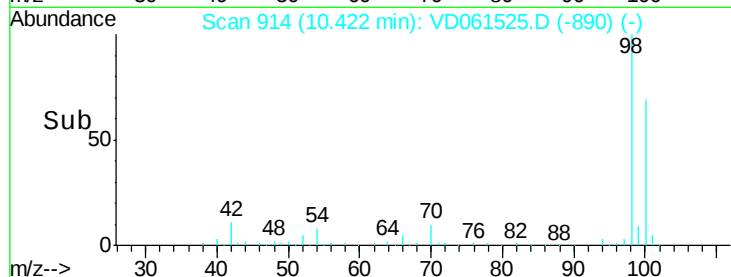
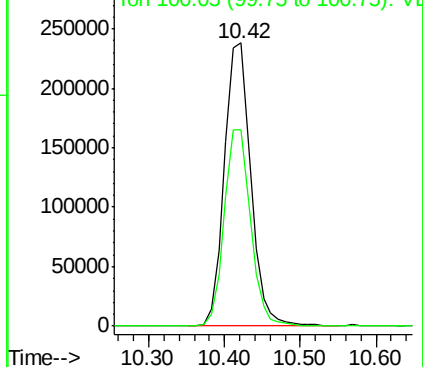
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.04 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 578012
Ion Ratio Lower Upper
98 100
100 69.3 56.2 84.2

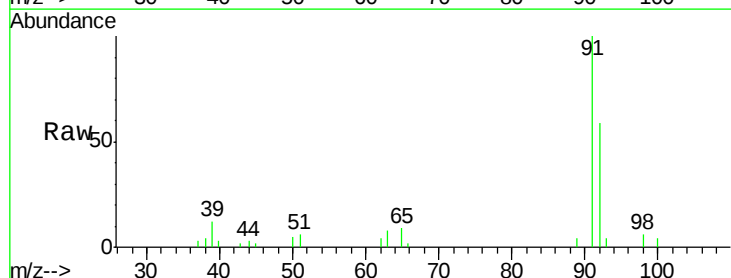


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

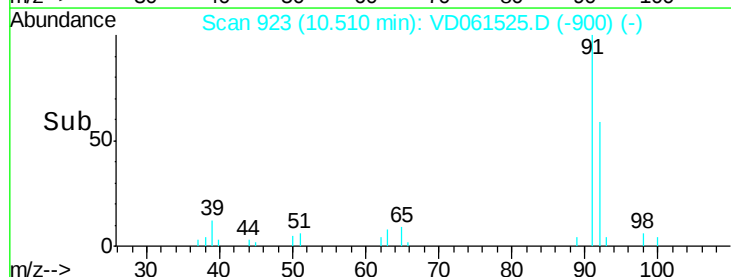
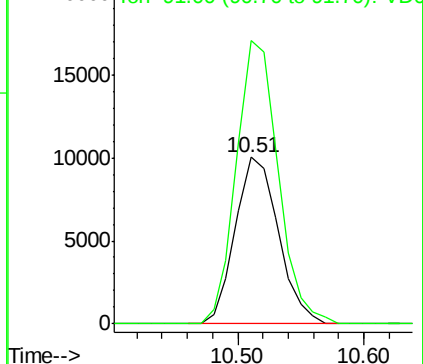


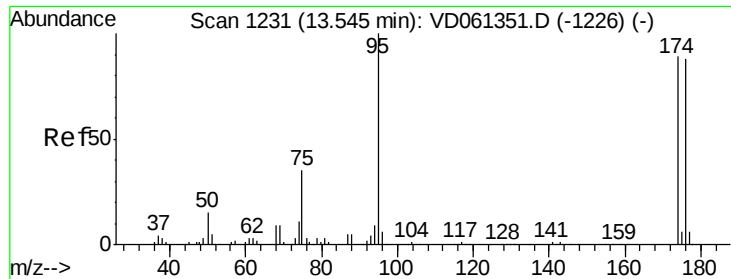
#52
Toluene
Concen: 2.396 ug/l
RT: 10.51 min Scan# 923
Delta R.T. 0.03 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Tgt Ion: 92 Resp: 23800
Ion Ratio Lower Upper
92 100
91 169.8 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

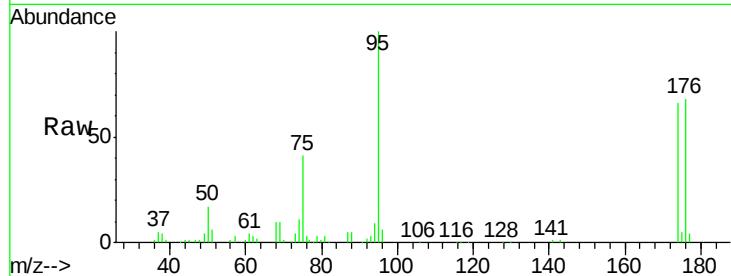




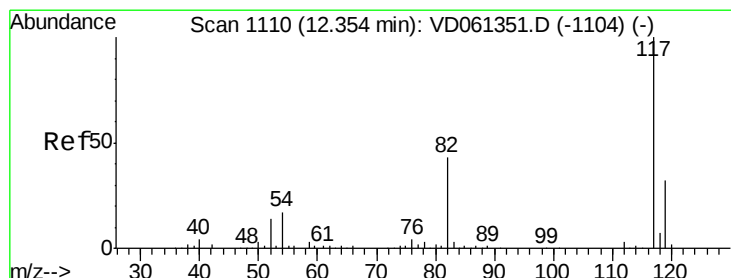
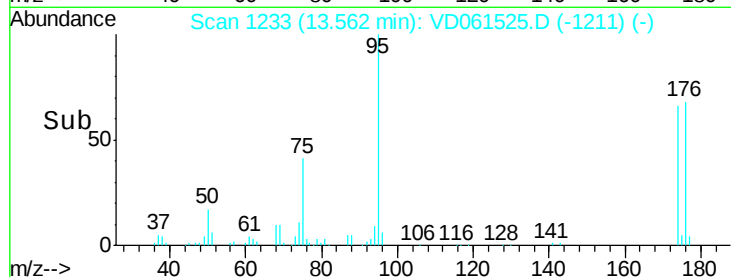
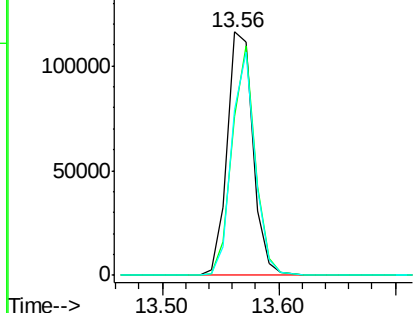
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.02 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 178528
Ion Ratio Lower Upper
95 100
174 65.6 0.0 178.0
176 68.2 0.0 175.0

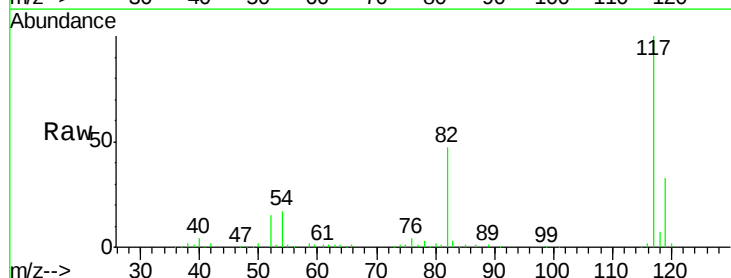


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

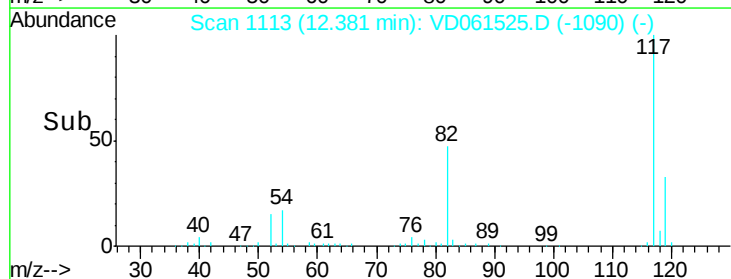
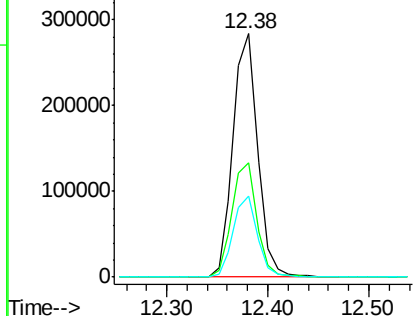


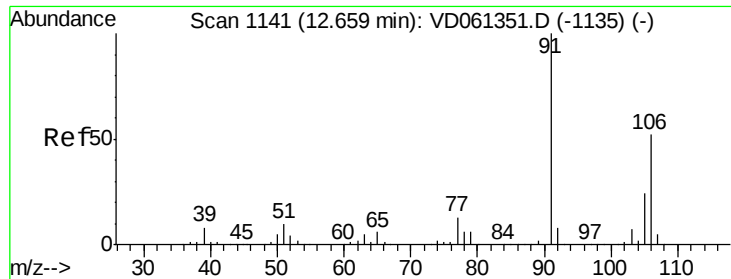
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.03 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Tgt Ion: 117 Resp: 481348
Ion Ratio Lower Upper
117 100
82 46.8 34.4 51.6
119 33.5 25.8 38.6



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

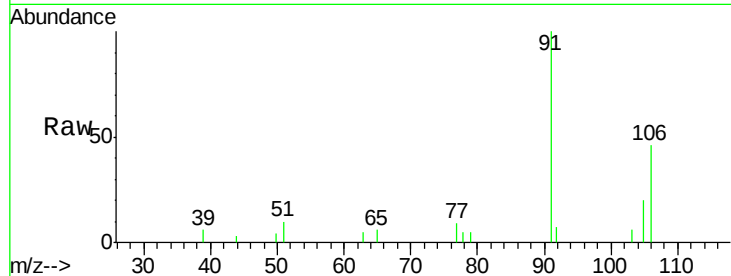




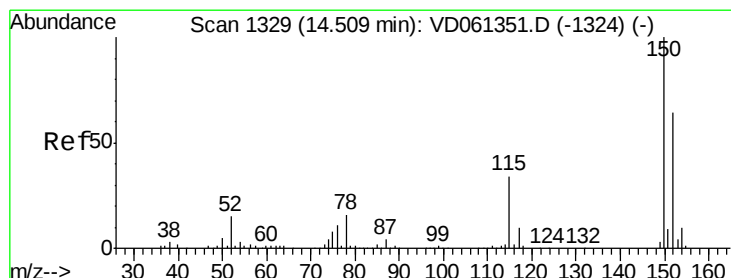
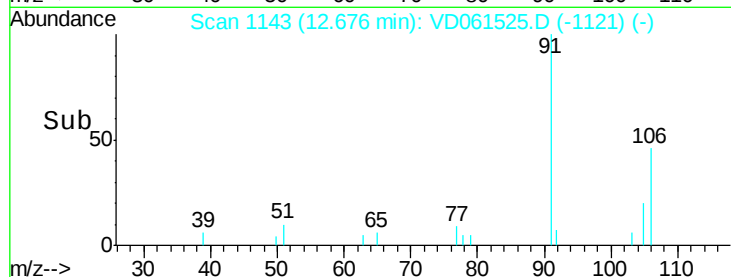
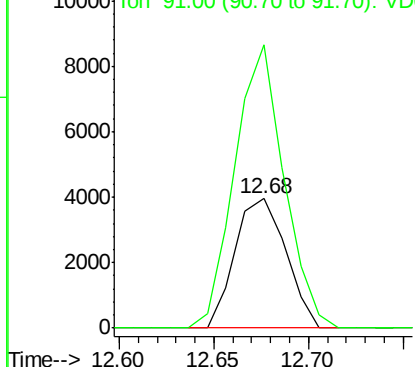
#68
m/p-Xvlenes
Concen: 1.293 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.02 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 7355
Ion Ratio Lower Upper
106 100
91 218.2 153.1 229.7

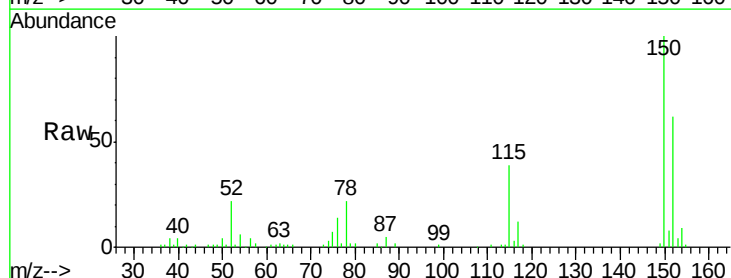


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

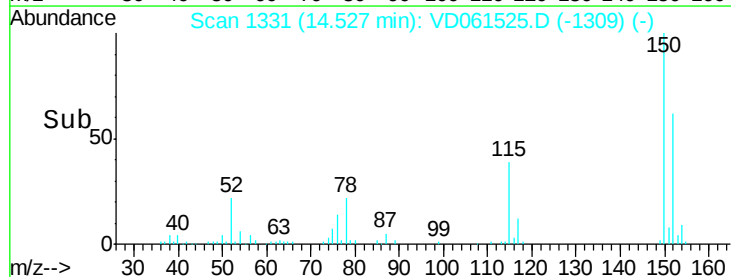
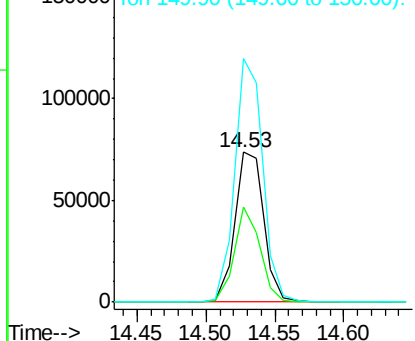


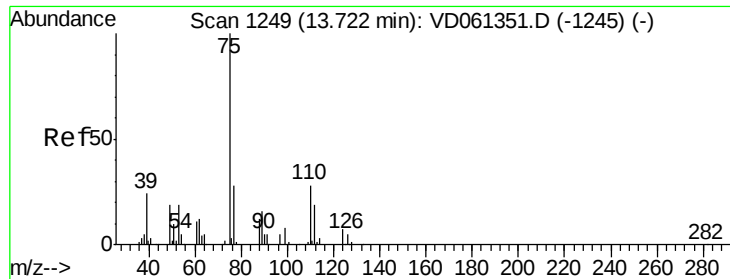
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD061525.D
Acq: 2 Apr 2019 20:16

Tgt Ion:152 Resp: 107465
Ion Ratio Lower Upper
152 100
115 63.8 26.9 80.6
150 162.3 0.0 318.0



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





#76

1,2,3-Trichloropropane

Concen: 44.204 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

Instrument :

MSVOA_D

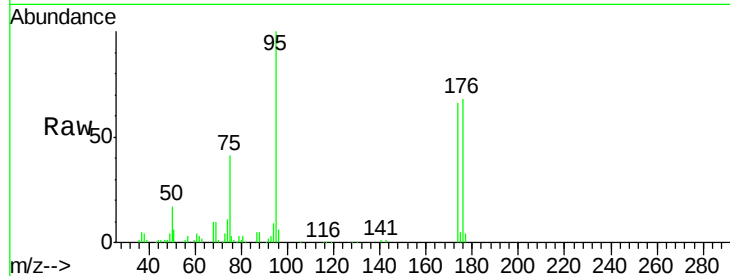
ClientSampled :

Tot Ion: 75 Resp: 68621

Ion Ratio Lower Upper

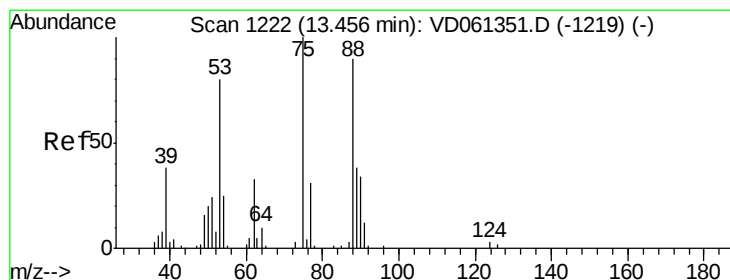
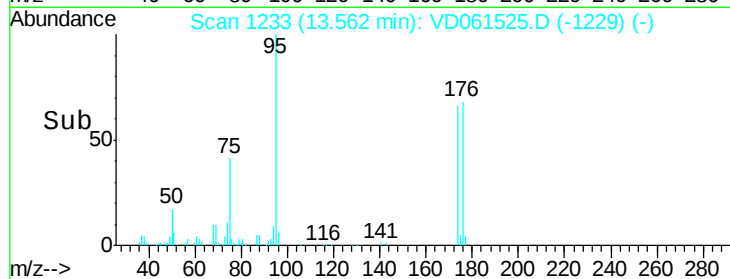
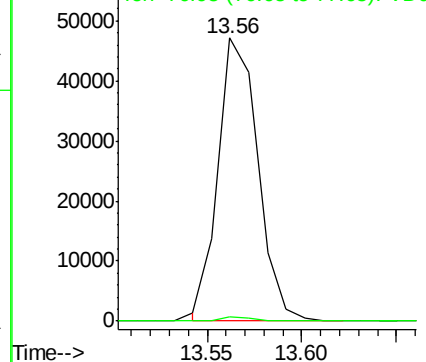
75 100

77 1.7 16.2 48.5#



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: 146.769 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.11 min

Lab File: VD061525.D

Acq: 2 Apr 2019 20:16

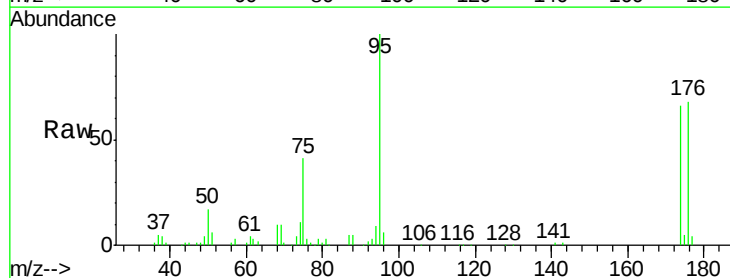
Tgt Ion: 75 Resp: 69468

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

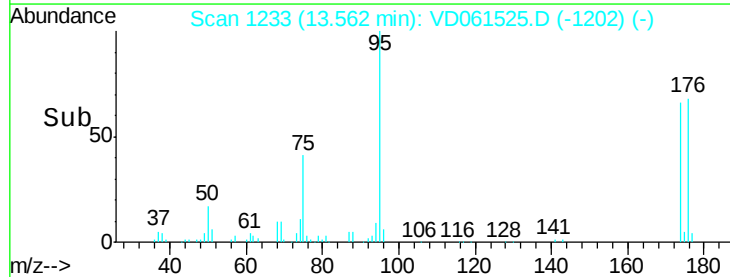
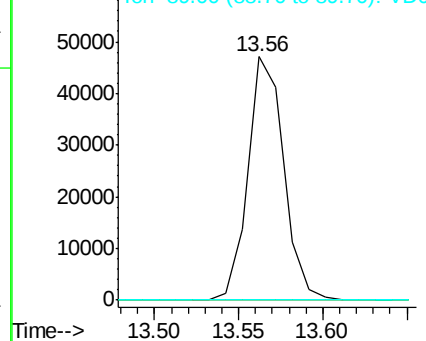
89 0.0 30.5 45.7#

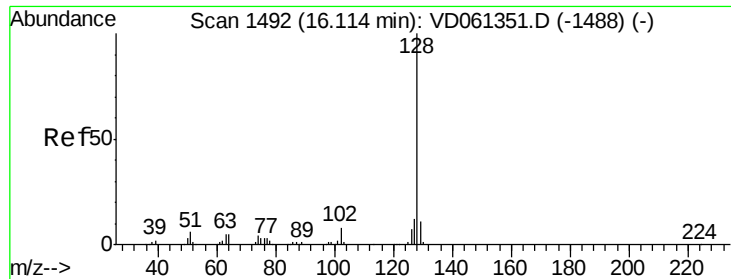


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

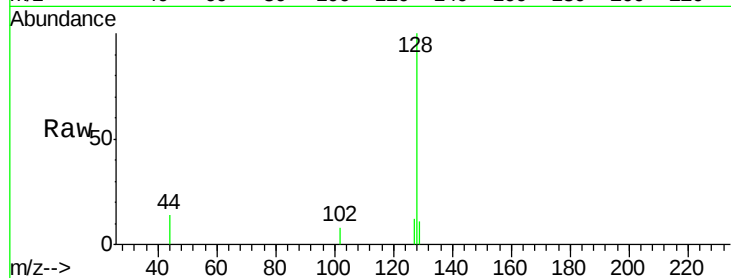




#95
 Naphthalene
 Concen: 3.097 ug/l
 RT: 16.14 min Scan# 1495
 Delta R.T. 0.03 min
 Lab File: VD061525.D
 Acq: 2 Apr 2019 20:16

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.9	14.9
129	11.4	8.9	13.3



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

