

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061419\
 Data File : VD062714.D
 Acq On : 14 Jun 2019 16:39
 Operator : VA/AP
 Sample : K3376-02RE
 Misc : 5.74g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NEW-DOVER-TP-1FTRE

Quant Time: Jun 15 04:37:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	808526	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	1085679	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	841939	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	342938	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	331229	28.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	56.78%	
35) Dibromofluoromethane	6.92	113	355739	31.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	62.14%	
50) Toluene-d8	10.41	98	658528	27.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	54.68%	
62) 4-Bromofluorobenzene	13.56	95	296362	26.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	52.74%	

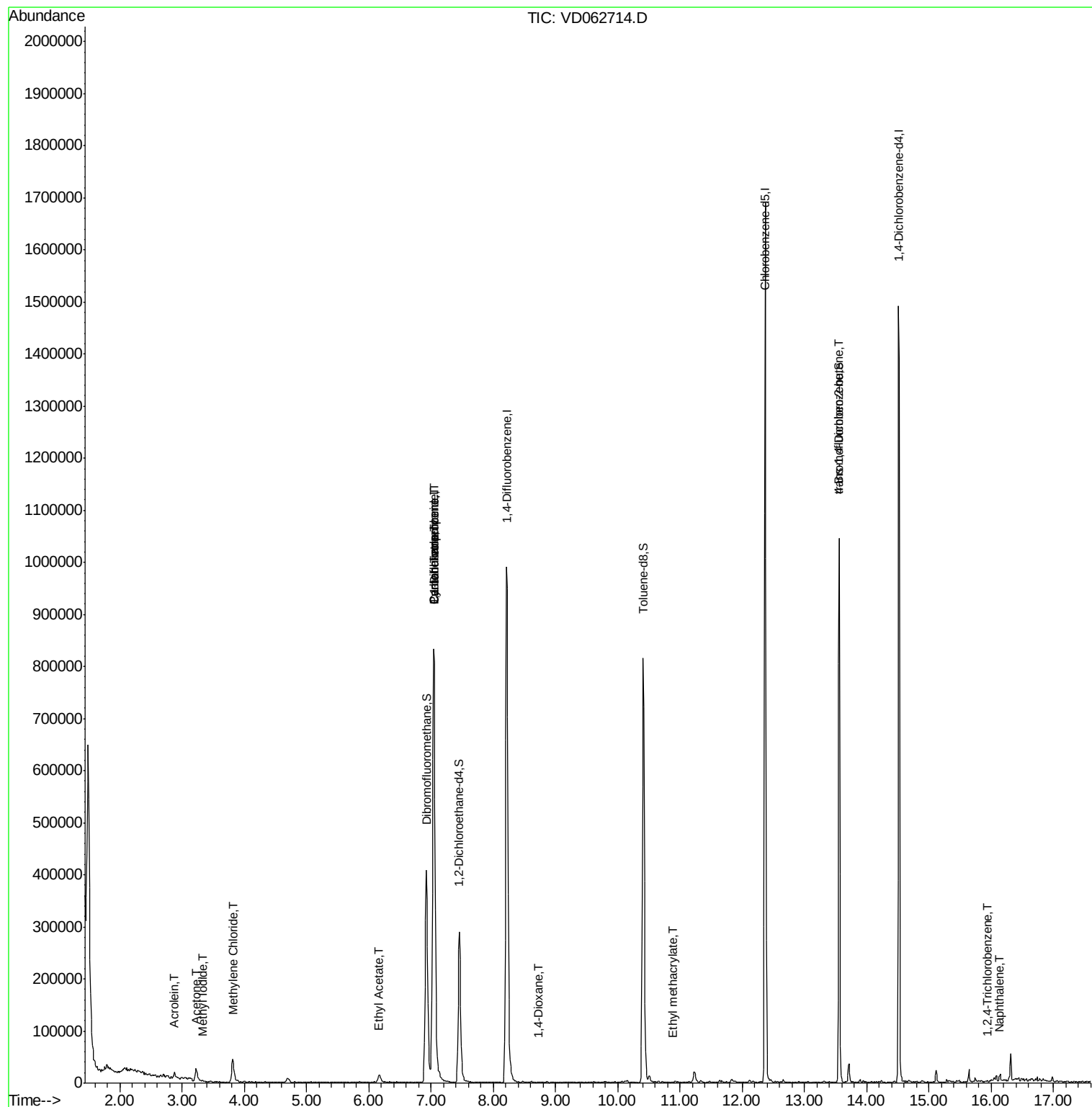
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	460	Below Cal	#	42
10) Methyl Iodide	3.33	142	244	4.024	ug/l #	24
13) Acrolein	2.87	56	425	2.755	ug/l #	59
16) Acetone	3.22	43	54446	25.485	ug/l	94
20) Methylene Chloride	3.81	84	27066	2.937	ug/l	87
31) Cyclohexane	7.04	56	18004	1.955	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	64930	5.226	ug/l #	52
37) Ethyl Acetate	6.16	43	543	1.301	ug/l #	1
38) Carbon Tetrachloride	7.04	117	82144	4.183	ug/l #	18
49) 1,4-Dioxane	8.72	88	191	51.560	ug/l #	21
56) Ethyl methacrylate	10.89	69	210	3.968	ug/l #	12
81) trans-1,4-Dichloro-2-buten	13.56	75	137956	96.145	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	555	3.627	ug/l #	86
95) Naphthalene	16.12	128	2558	3.641	ug/l #	71

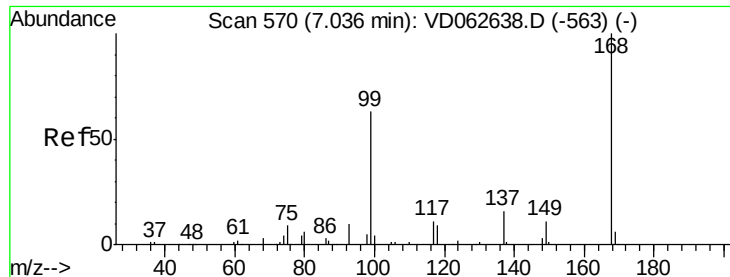
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

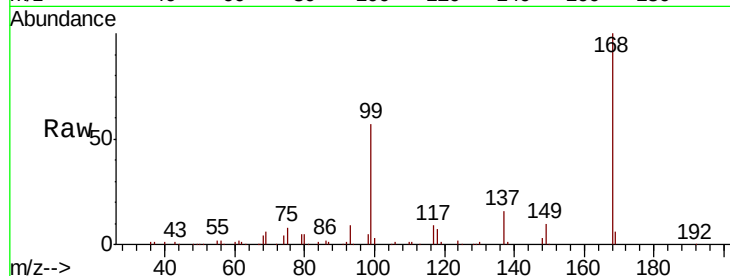
NEW-DOVER-TP-1FTRE

Tot Ion:168 Resp: 808526

Ion Ratio Lower Upper

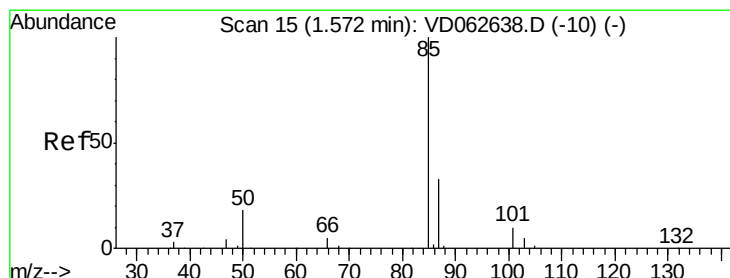
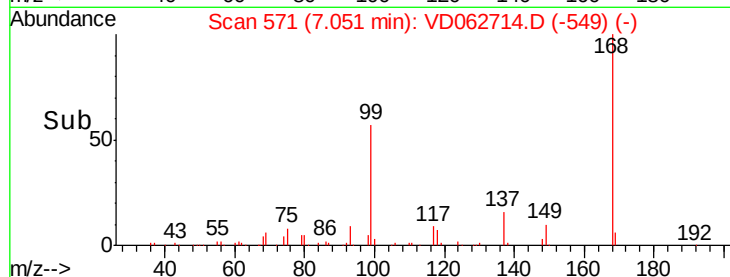
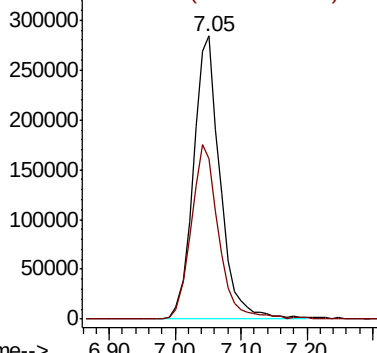
168 100

99 56.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD062714.D

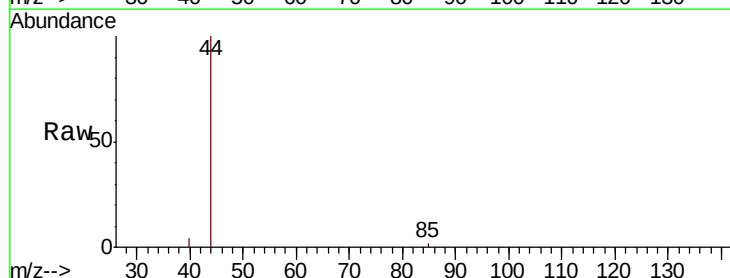
Acq: 14 Jun 2019 16:39

Tgt Ion: 85 Resp: 460

Ion Ratio Lower Upper

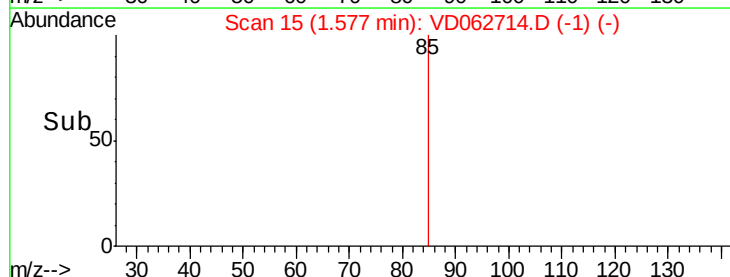
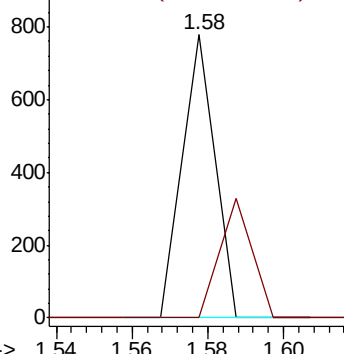
85 100

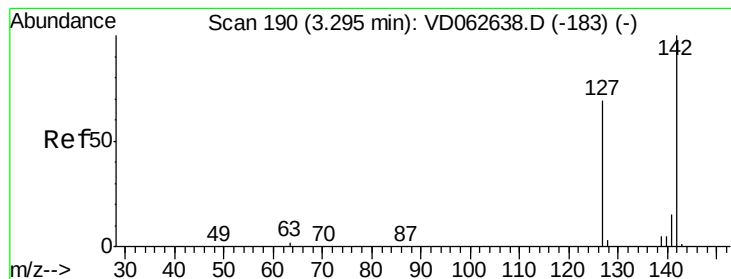
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#10

Methyl Iodide

Concen: 4.024 ug/l

RT: 3.33 min Scan# 193

Delta R.T. 0.04 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

NEW-DOVER-TP-1FTRE

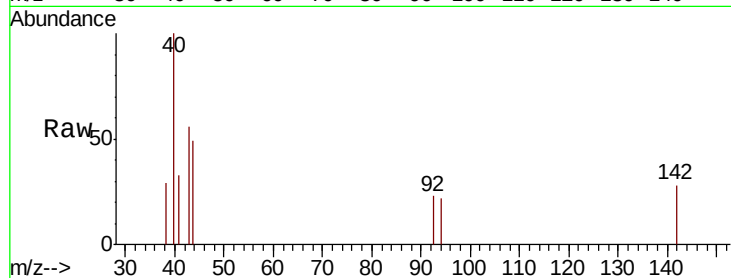
Tot Ion:142 Resp: 244

Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

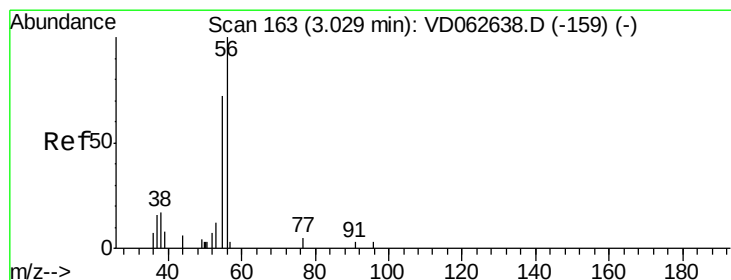
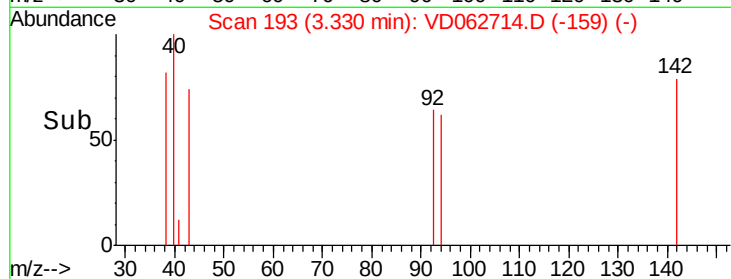
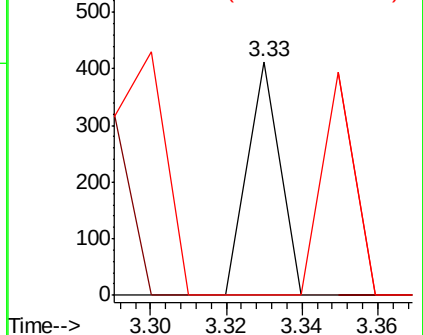
141 0.0 12.1 18.1#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



#13

Acrolein

Concen: 2.755 ug/l

RT: 2.87 min Scan# 146

Delta R.T. -0.16 min

Lab File: VD062714.D

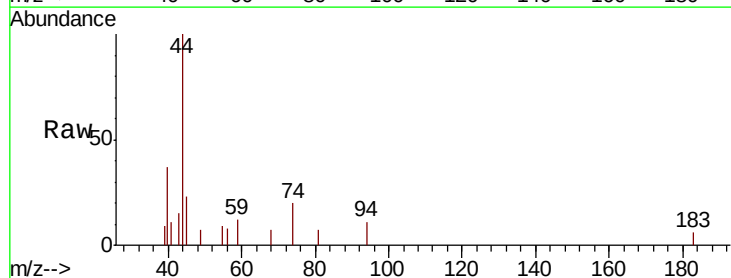
Acq: 14 Jun 2019 16:39

Tgt Ion: 56 Resp: 425

Ion Ratio Lower Upper

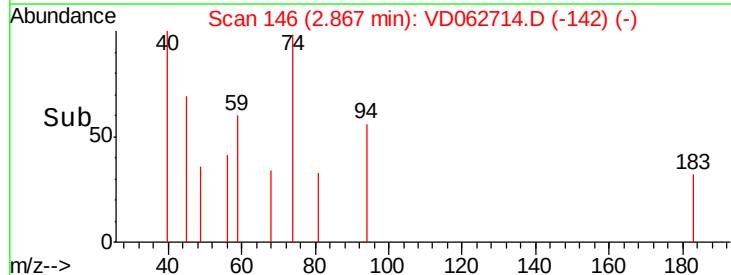
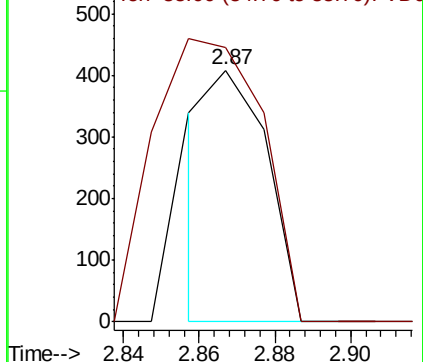
56 100

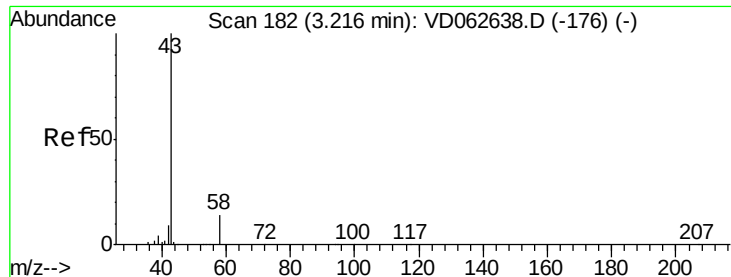
55 109.3 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): V

Ion 55.00 (54.70 to 55.70): V





#16

Acetone

Concen: 25.485 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

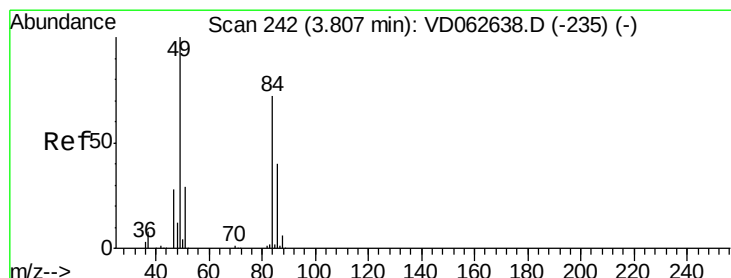
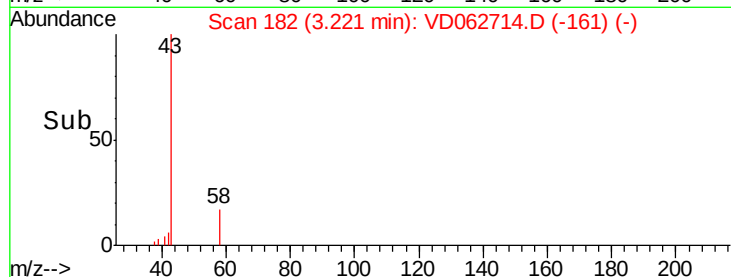
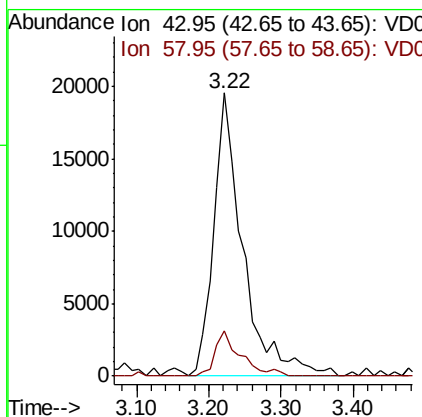
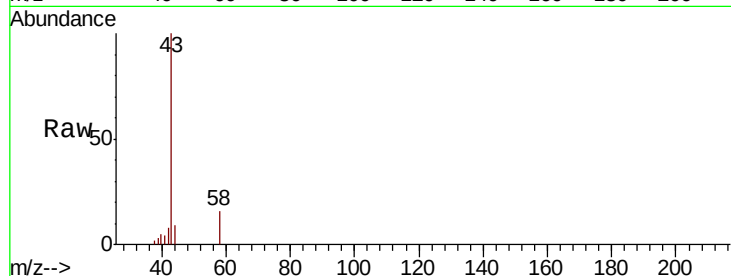
NEW-DOVER-TP-1FTRE

Tot Ion: 43 Resp: 54446

Ion Ratio Lower Upper

43 100

58 16.1 10.8 16.2



#20

Methylene Chloride

Concen: 2.937 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Tgt Ion: 84 Resp: 27066

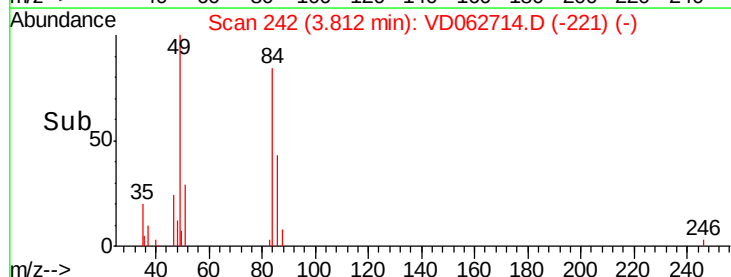
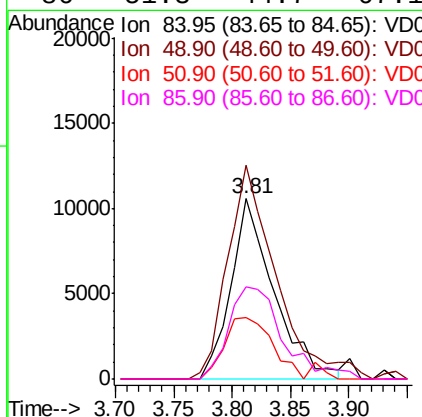
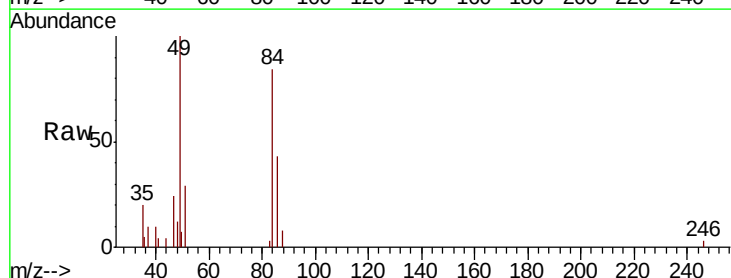
Ion Ratio Lower Upper

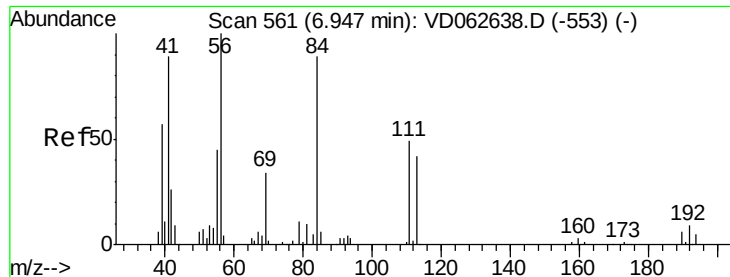
84 100

49 118.4 111.2 166.8

51 34.4 31.9 47.9

86 51.3 44.7 67.1

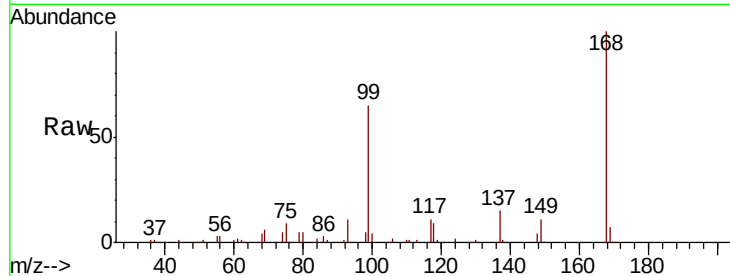




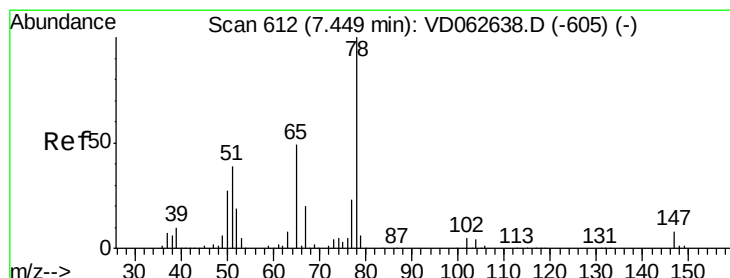
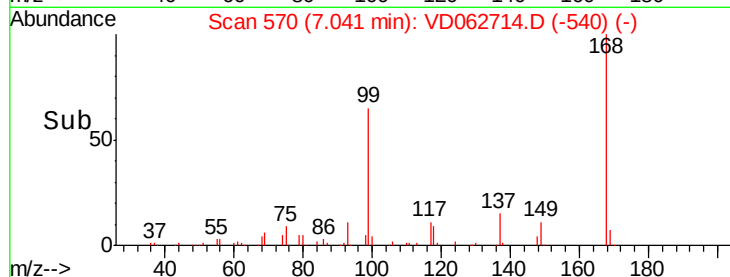
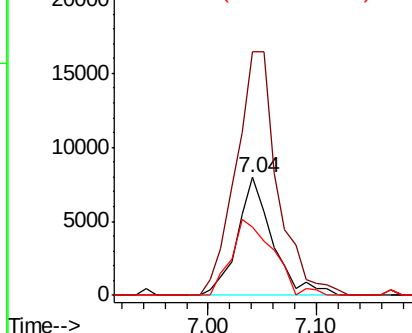
#31
Cyclohexane
Concen: 1.955 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.09 min
Lab File: VD062714.D
Acq: 14 Jun 2019 16:39

Instrument :
MSVOA_D
ClientSampleId :
NEW-DOVER-TP-1FTRE

Tot Ion: 56 Resp: 18004
Ion Ratio Lower Upper
56 100
69 206.3 26.8 40.2#
84 57.8 73.9 110.9#

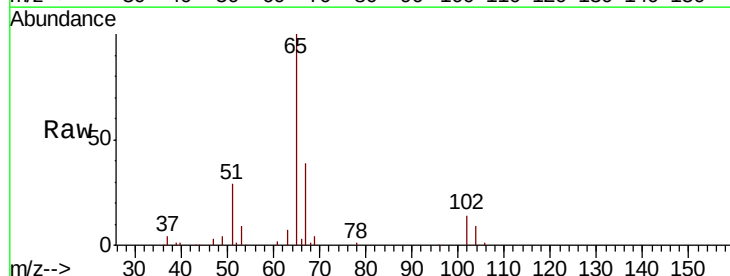


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

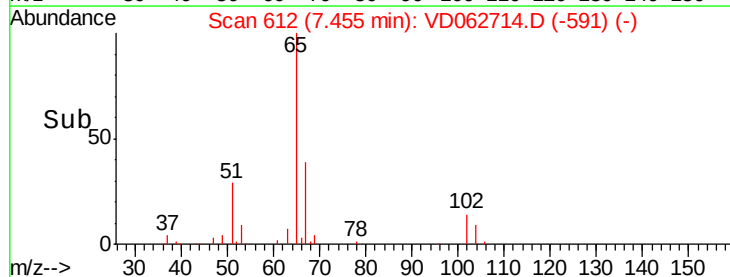
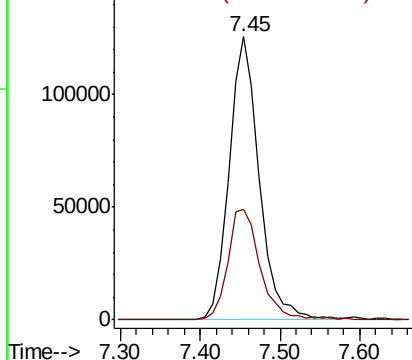


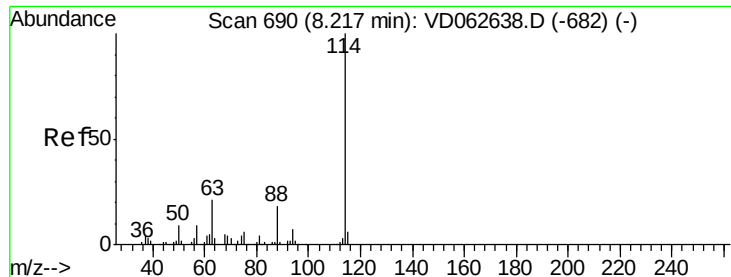
#33
1,2-Dichloroethane-d4
Concen: 28.390 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD062714.D
Acq: 14 Jun 2019 16:39

Tgt Ion: 65 Resp: 331229
Ion Ratio Lower Upper
65 100
67 39.2 0.0 81.8



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: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

NEW-DOVER-TP-1FTRE

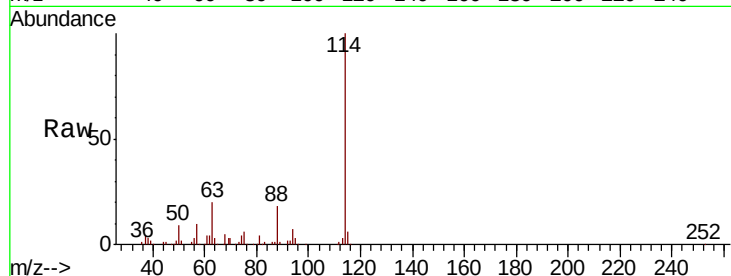
Tot Ion:114 Resp: 1085679

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

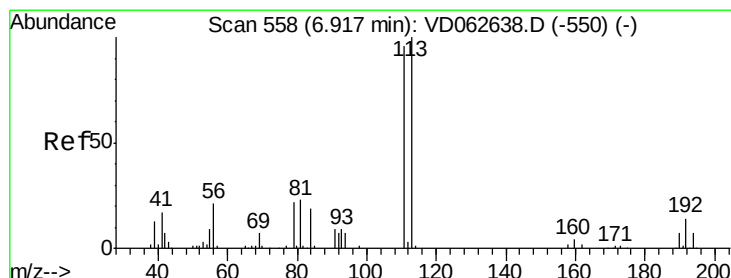
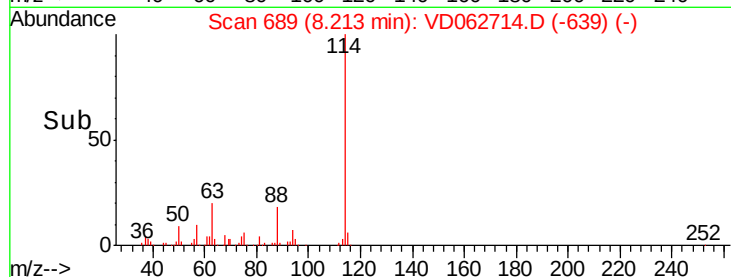
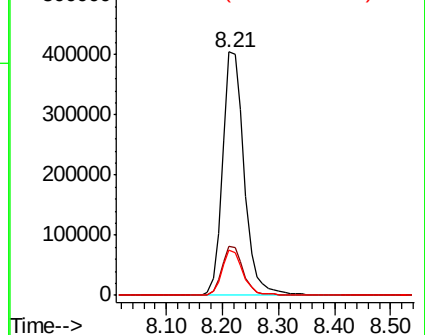
88 18.3 0.0 36.8



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: 31.069 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

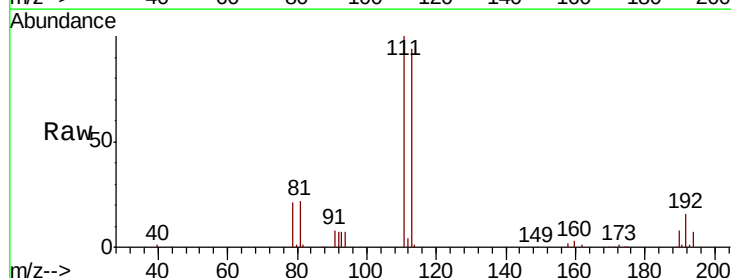
Tgt Ion:113 Resp: 355739

Ion Ratio Lower Upper

113 100

111 106.1 76.4 114.6

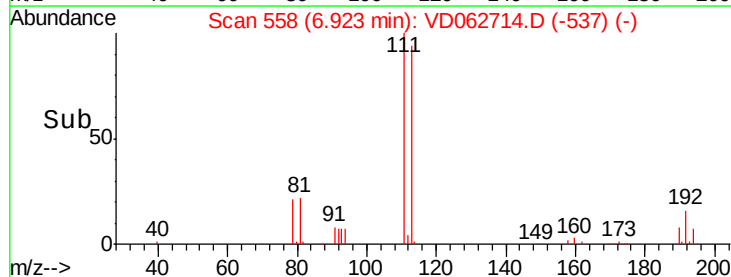
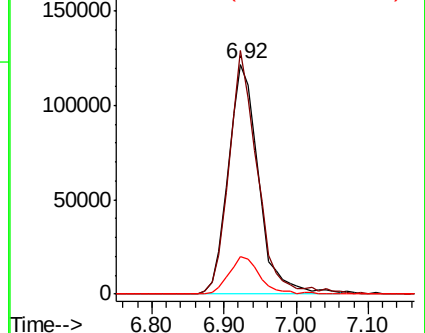
192 16.5 11.4 17.0

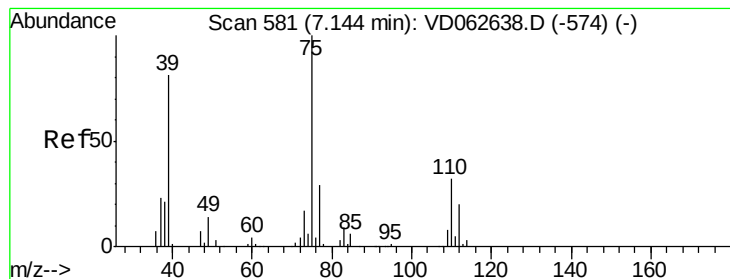


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.226 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Instrument :

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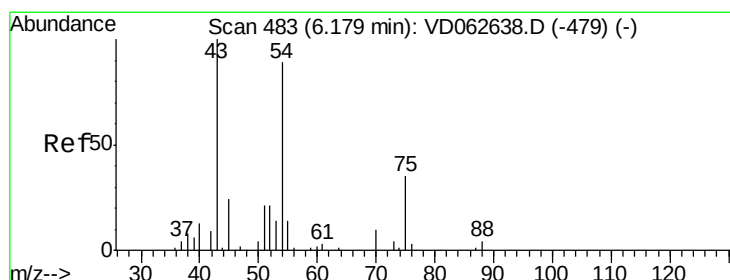
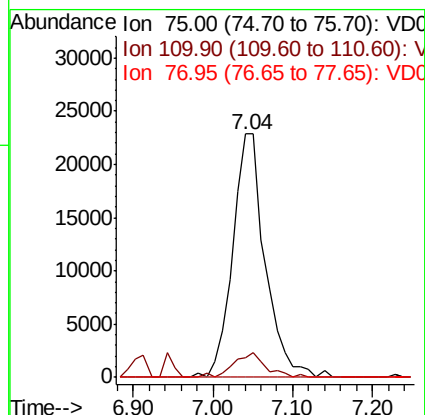
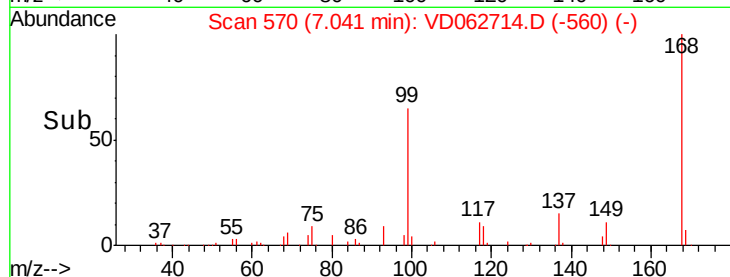
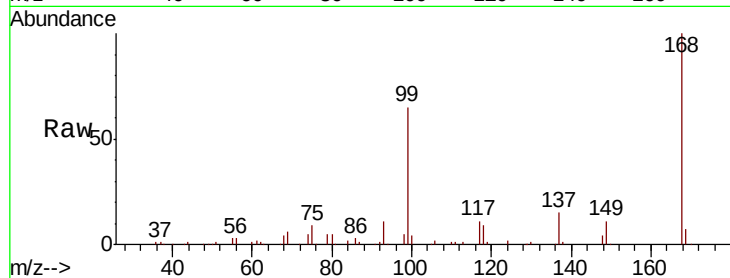
Tot Ion: 75 Resp: 64930

Ion Ratio Lower Upper

75 100

110 8.0 15.9 47.7#

77 0.0 23.3 34.9#



#37

Ethyl Acetate

Concen: 1.301 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.01 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

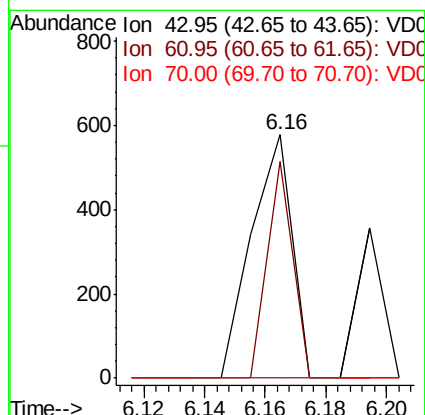
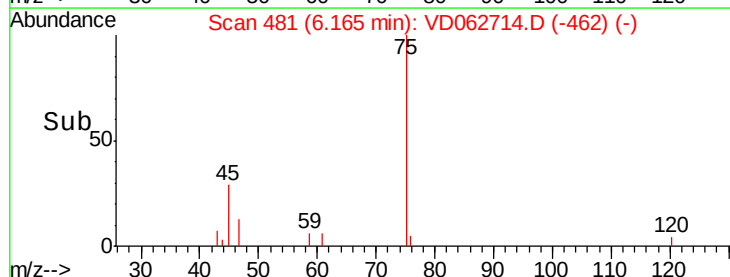
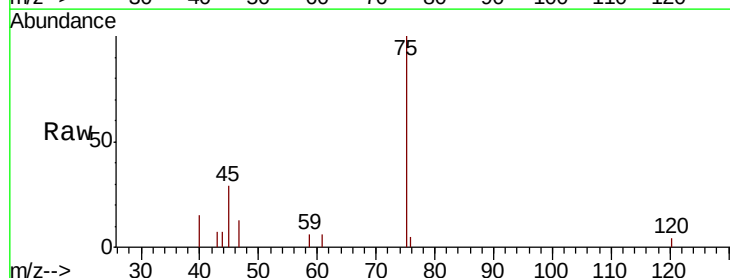
Tgt Ion: 43 Resp: 543

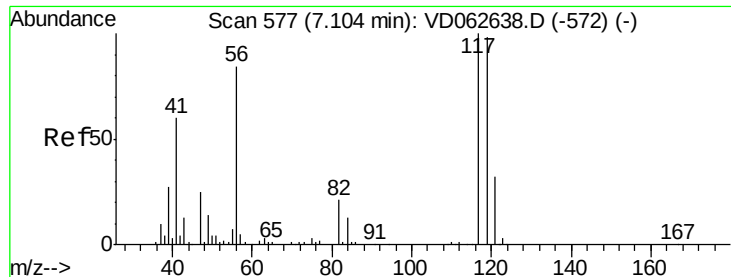
Ion Ratio Lower Upper

43 100

61 89.1 8.7 13.1#

70 0.0 6.5 9.7#





#38

Carbon Tetrachloride

Concen: 4.183 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

Instrument :

MSVOA_D

ClientSampleId :

NEW-DOVER-TP-1FTRE

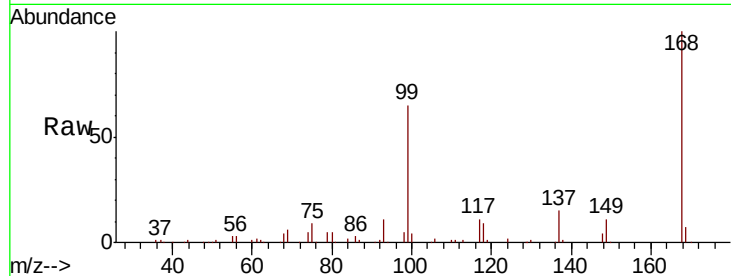
Tot Ion:117 Resp: 82144

Ion Ratio Lower Upper

117 100

119 5.6 73.5 110.3#

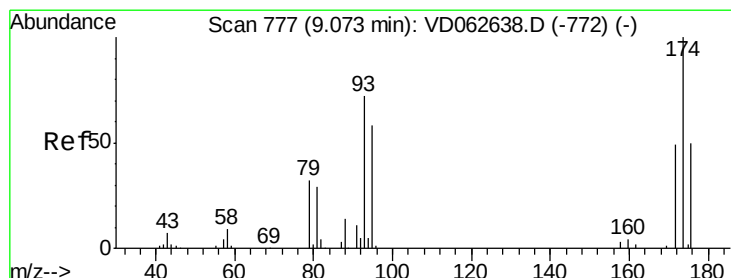
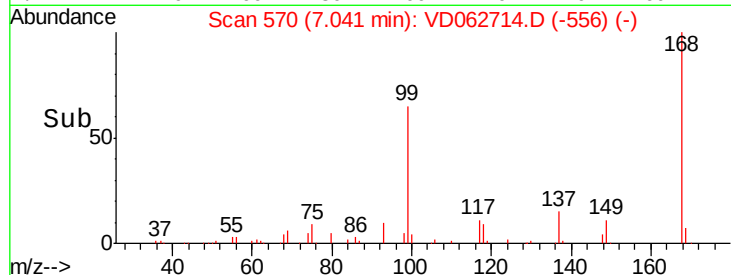
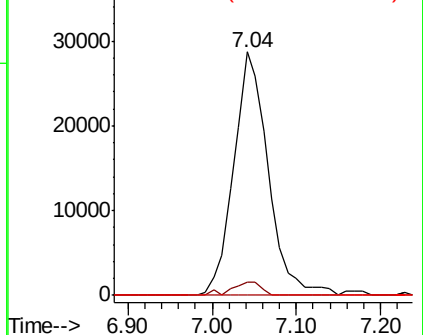
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 51.560 ug/l

RT: 8.72 min Scan# 741

Delta R.T. -0.35 min

Lab File: VD062714.D

Acq: 14 Jun 2019 16:39

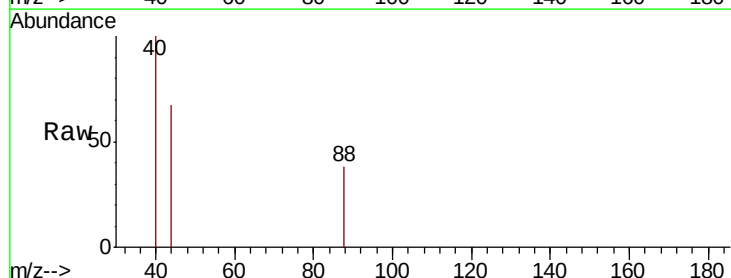
Tgt Ion: 88 Resp: 191

Ion Ratio Lower Upper

88 100

43 0.0 40.7 61.1#

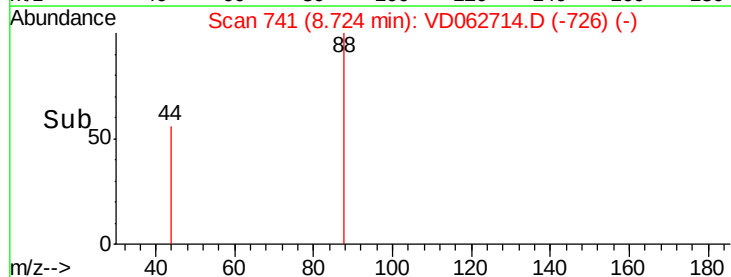
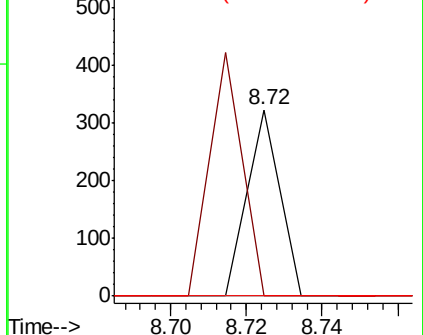
58 0.0 54.2 81.4#

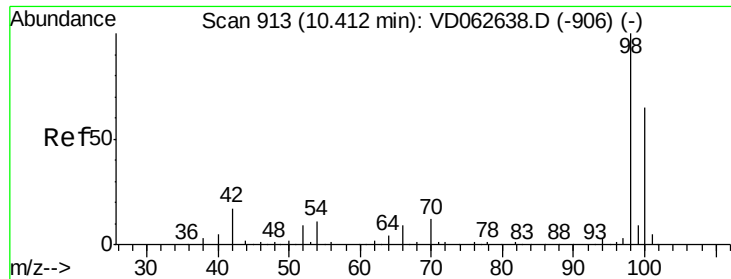


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

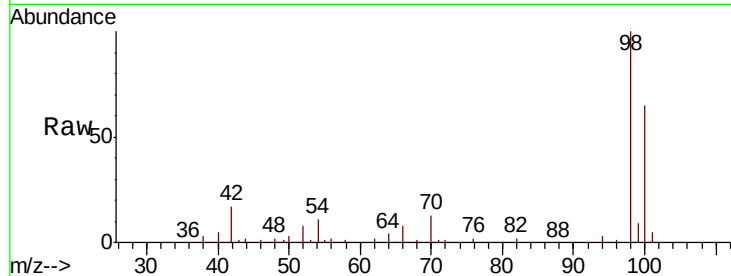




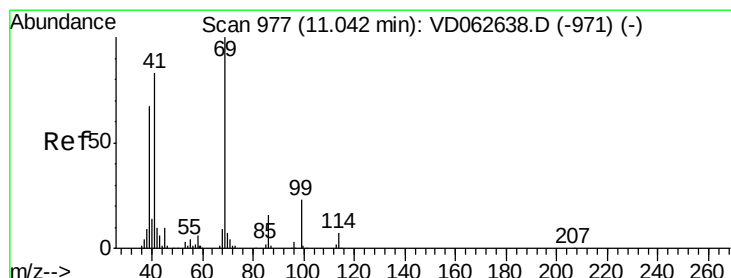
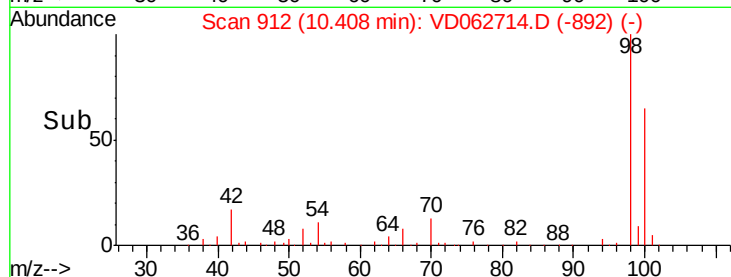
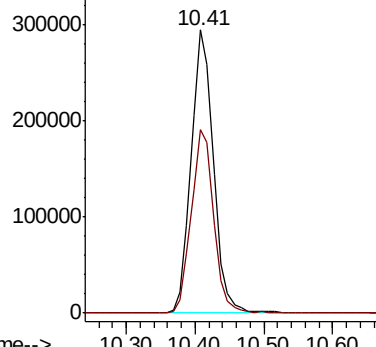
#50
Toluene-d8
Concen: 27.340 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD062714.D
Acq: 14 Jun 2019 16:39

Instrument :
MSVOA_D
ClientSampleId :
NEW-DOVER-TP-1FTRE

Tot Ion: 98 Resp: 658528
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1

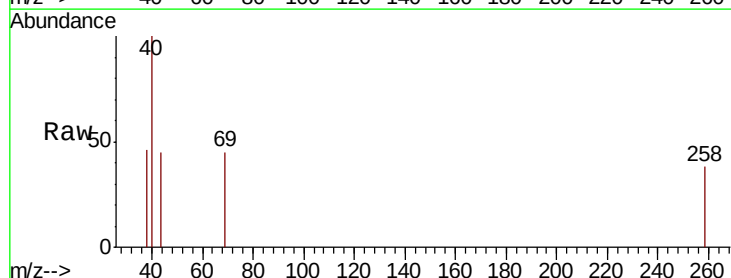


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

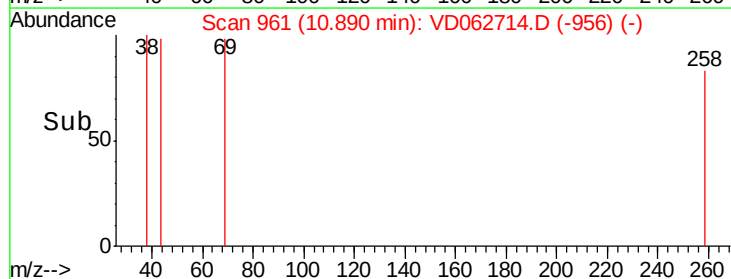
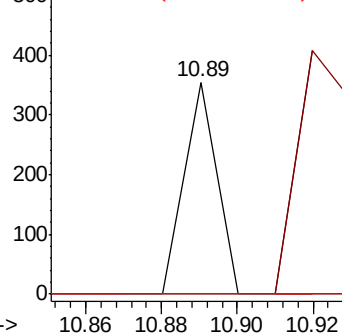


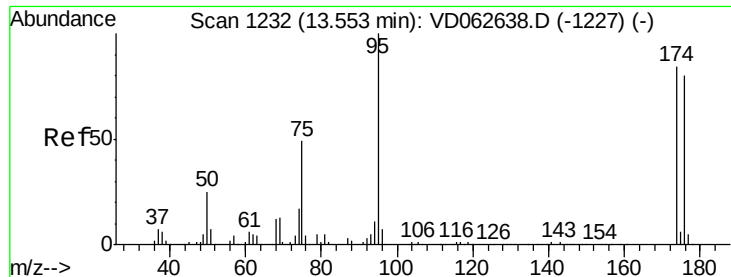
#56
Ethyl methacrylate
Concen: 3.968 ug/l
RT: 10.89 min Scan# 961
Delta R.T. -0.15 min
Lab File: VD062714.D
Acq: 14 Jun 2019 16:39

Tgt Ion: 69 Resp: 210
Ion Ratio Lower Upper
69 100
41 0.0 66.2 99.4#
39 0.0 53.8 80.8#



Abundance Ion 69.00 (68.70 to 69.70): VD0
Ion 41.05 (40.75 to 41.75): VD0
Ion 38.95 (38.65 to 39.65): VD0

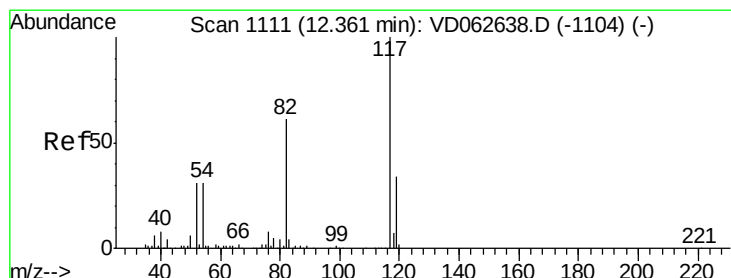
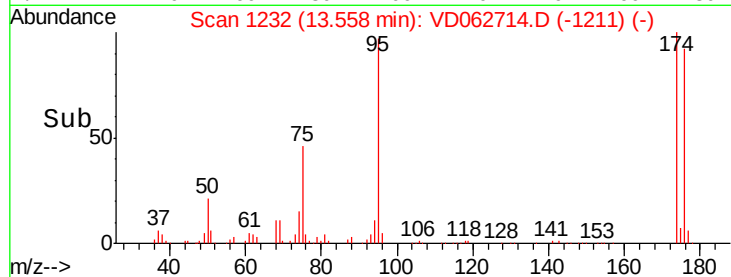
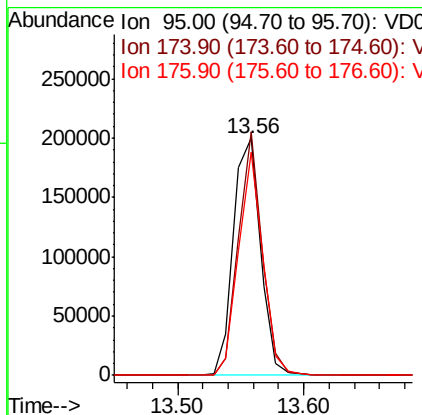
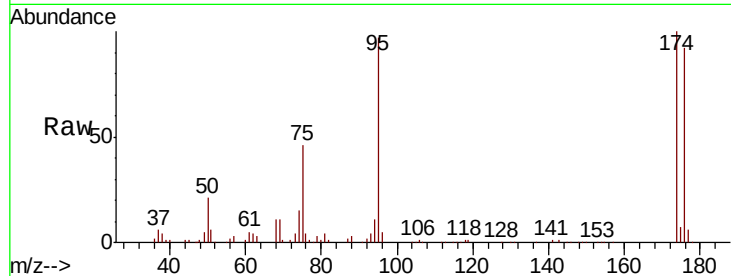




#62
4-Bromofluorobenzene
Concen: 26.373 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD062714.D
Acq: 14 Jun 2019 16:39

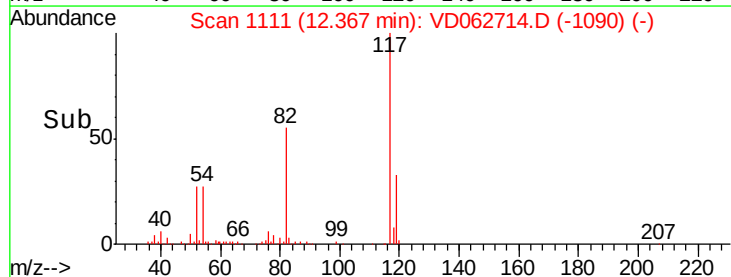
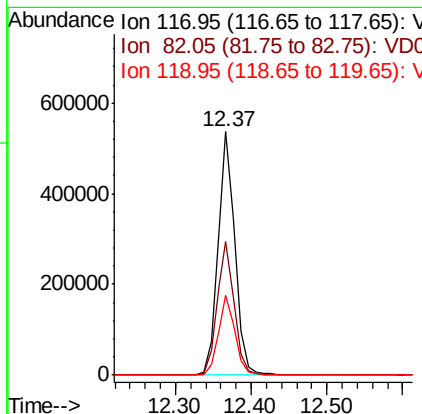
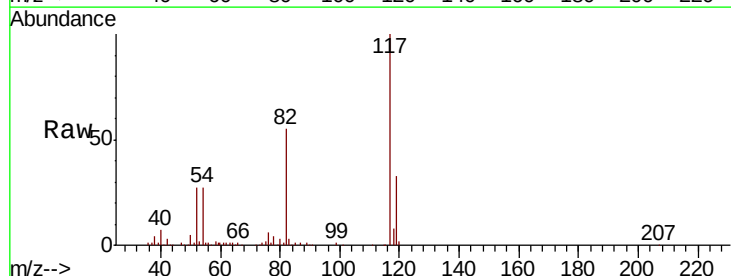
Instrument :
MSVOA_D
ClientSampleId :
NEW-DOVER-TP-1FTRE

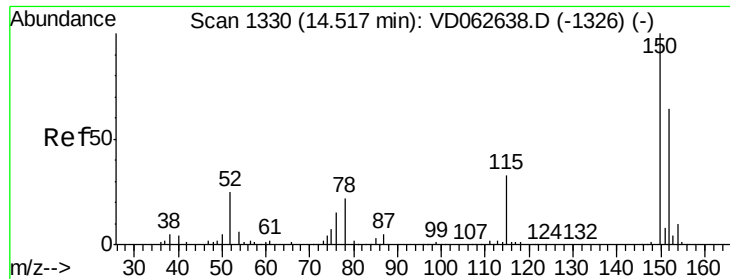
Tot Ion	Ratio	Lower	Upper
95	100		
174	102.9	0.0	167.0
176	94.3	0.0	159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD062714.D
Acq: 14 Jun 2019 16:39

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.9	48.7	73.1
119	32.6	27.0	40.6

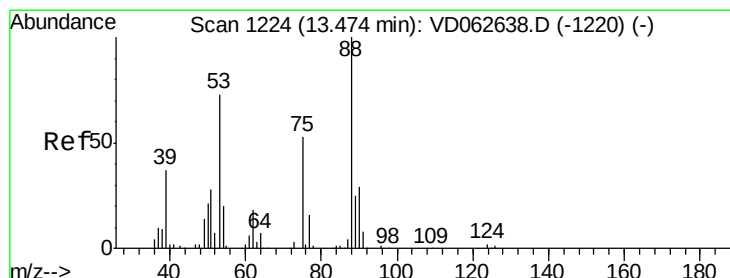
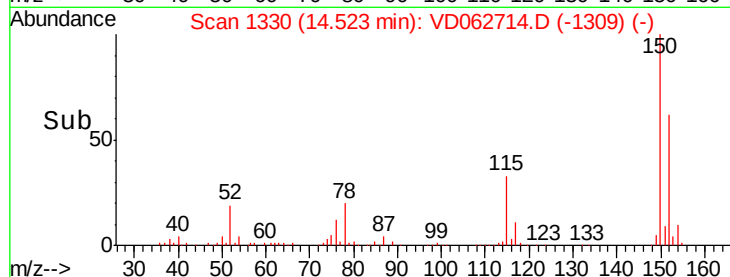
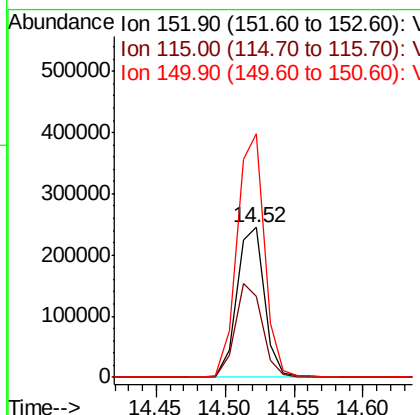
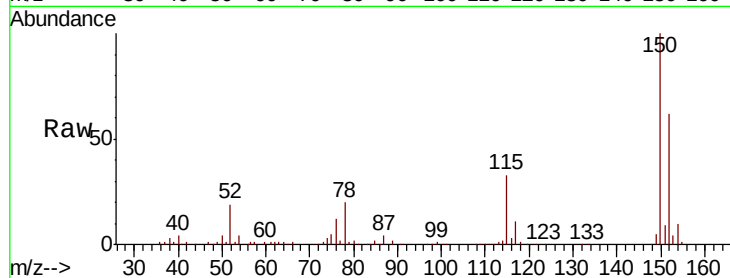




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VD062714.D
 Acq: 14 Jun 2019 16:39

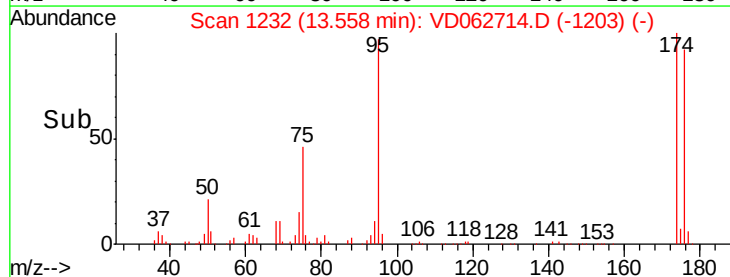
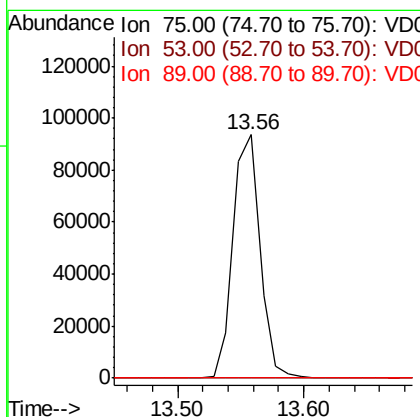
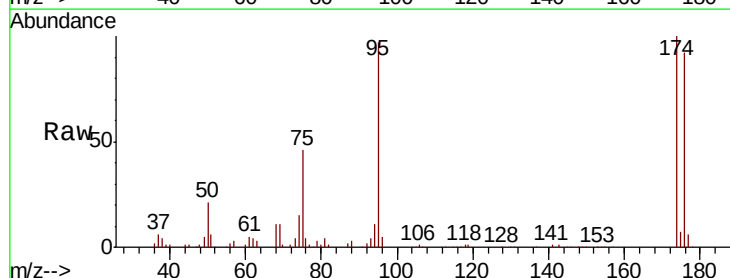
Instrument :
 MSVOA_D
 ClientSampleId :
 NEW-DOVER-TP-1FTRE

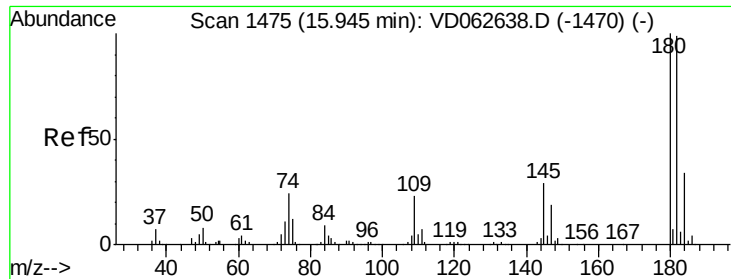
Tot Ion:152 Resp: 342938
 Ion Ratio Lower Upper
 152 100
 115 54.1 30.1 90.5
 150 162.6 0.0 314.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.145 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.09 min
 Lab File: VD062714.D
 Acq: 14 Jun 2019 16:39

Tgt Ion: 75 Resp: 137956
 Ion Ratio Lower Upper
 75 100
 53 0.0 109.4 164.2#
 89 0.0 37.0 55.6#

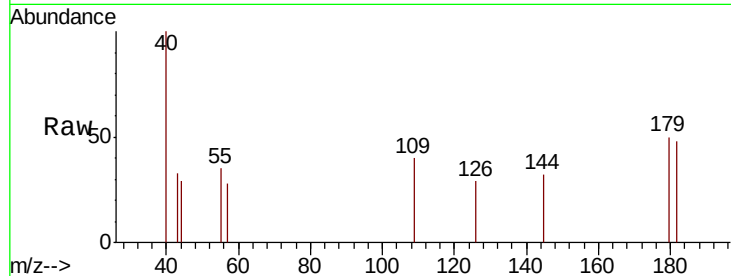




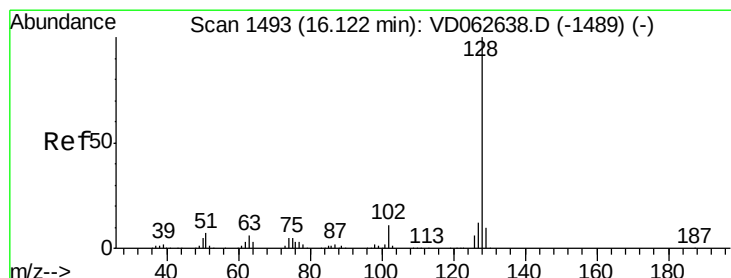
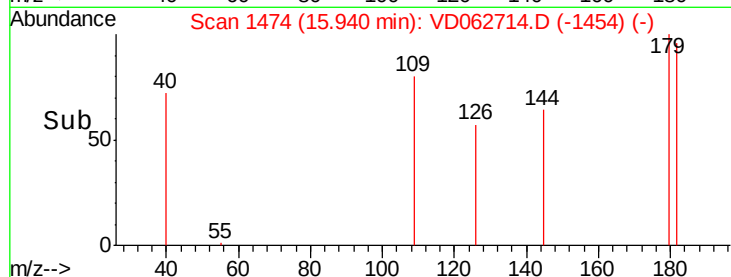
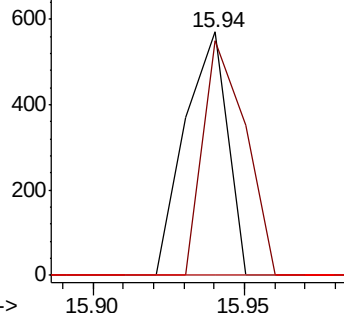
#93
 1,2,4-Trichlorobenzene
 Concen: 3.627 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD062714.D
 Acq: 14 Jun 2019 16:39

Instrument :
 MSVOA_D
 ClientSampleId :
 NEW-DOVER-TP-1FTRE

Tot Ion:180 Resp: 555
 Ion Ratio Lower Upper
 180 100
 182 96.5 49.4 148.2
 145 0.0 14.5 43.6#

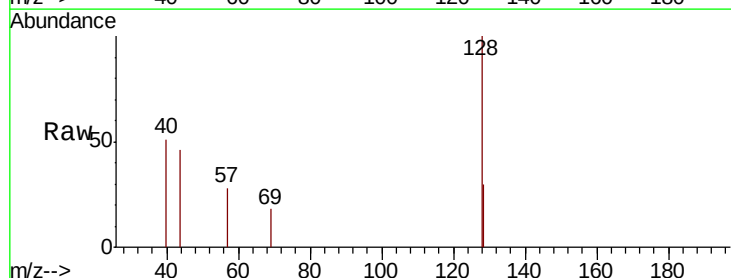


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.641 ug/l
 RT: 16.12 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VD062714.D
 Acq: 14 Jun 2019 16:39

Tgt Ion:128 Resp: 2558
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.7 14.5#
 129 0.0 8.1 12.1#



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

