

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063142.D
 Acq On : 17 Jul 2019 20:14
 Operator : VA/AP
 Sample : K3778-01
 Misc : 4.14g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 18 06:59:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	727507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	990399	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	851348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	397150	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	434913	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
35) Dibromofluoromethane	6.92	113	467947	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	10.41	98	1002646	47.32	ug/l	0.01
Spiked Amount			Recovery	=	94.64%	
62) 4-Bromofluorobenzene	13.55	95	423308	43.18	ug/l	0.00
Spiked Amount			Recovery	=	86.36%	

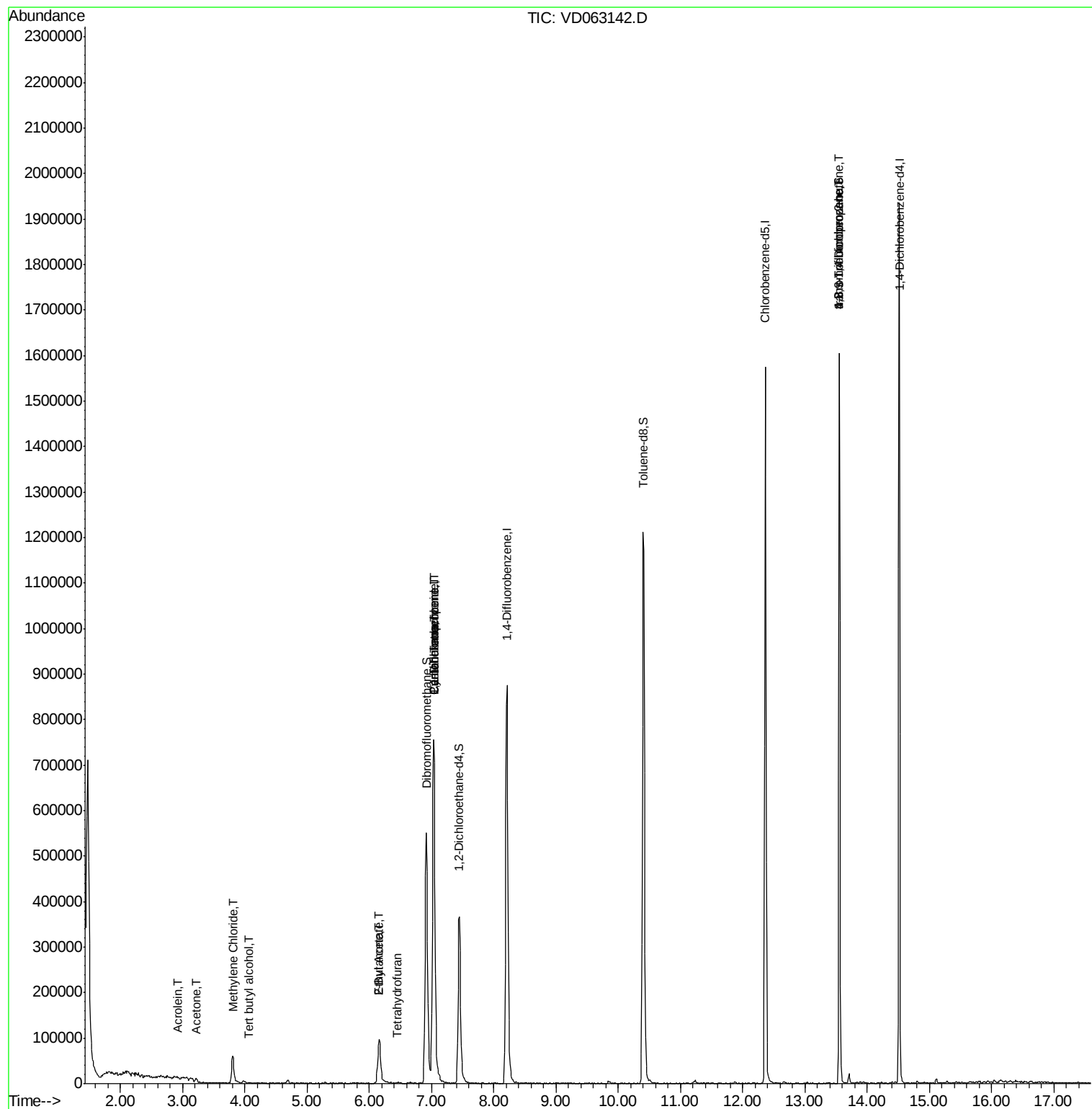
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	248	Below Cal	#	43
3) Chloromethane	1.74	50	695	Below Cal	#	48
5) Bromomethane	2.13	94	1699	Below Cal	#	13
11) Tert butyl alcohol	4.05	59	1615	3.088	ug/l #	77
13) Acrolein	2.94	56	556	3.522	ug/l	94
16) Acetone	3.22	43	13643	6.233	ug/l #	86
18) Methyl Acetate	3.63	43	389	Below Cal	#	63
20) Methylene Chloride	3.81	84	34161	4.131	ug/l #	82
25) 2-Butanone	6.15	43	8465	4.050	ug/l #	61
29) Tetrahydrofuran	6.44	42	1307	1.379	ug/l #	69
31) Cyclohexane	7.04	56	16968	1.967	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	56883	5.107	ug/l #	48
37) Ethyl Acetate	6.15	43	8466	1.776	ug/l #	33
38) Carbon Tetrachloride	7.04	117	76979	4.548	ug/l #	14
76) 1,2,3-Trichloropropane	13.55	75	151234	24.755	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	200959	124.912	ug/l #	1

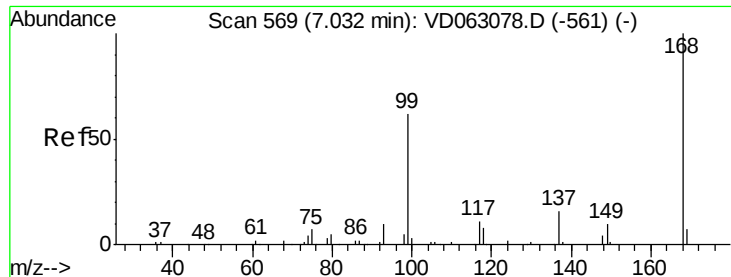
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071719\
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QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063142.D

Acq: 17 Jul 2019 20:14

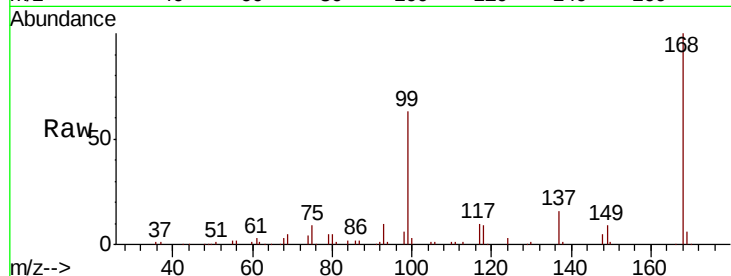
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 727507

Ion Ratio Lower Upper

168 100

99 62.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

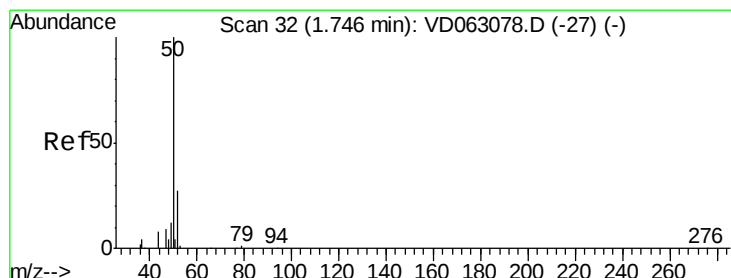
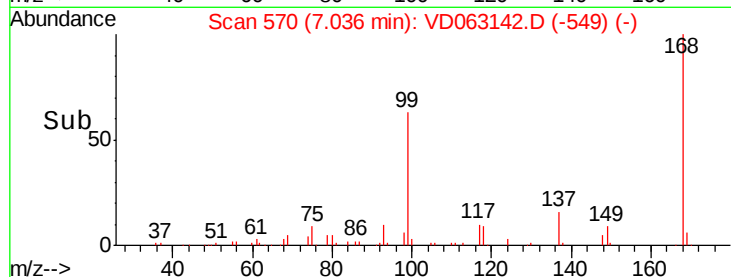
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063142.D

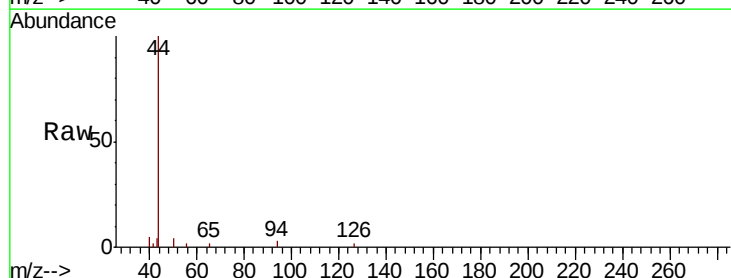
Acq: 17 Jul 2019 20:14

Tgt Ion: 50 Resp: 695

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

800

600

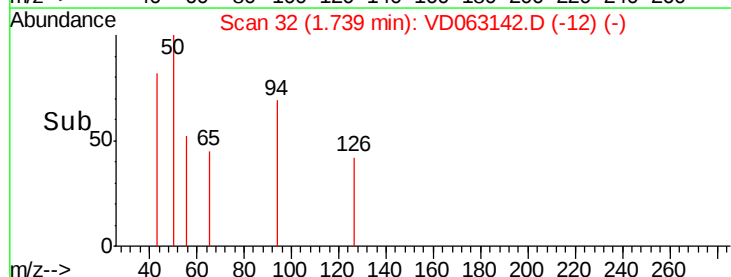
400

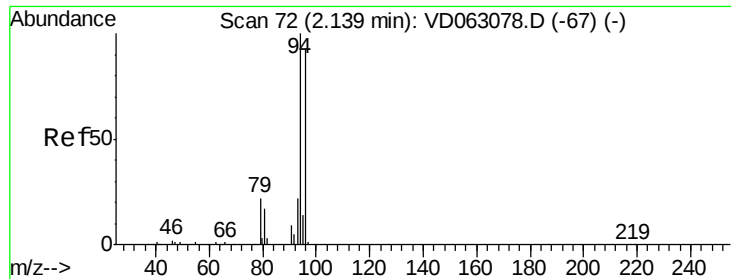
200

0

1.70 1.75 1.80

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063142.D

Acq: 17 Jul 2019 20:14

Instrument :

MSVOA_D

ClientSampleId :

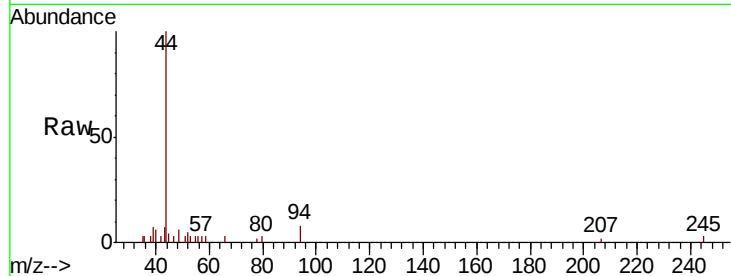
Tot Ion: 94 Resp: 1699

Ion Ratio Lower Upper

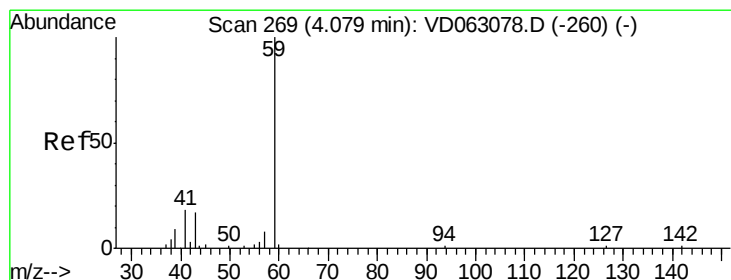
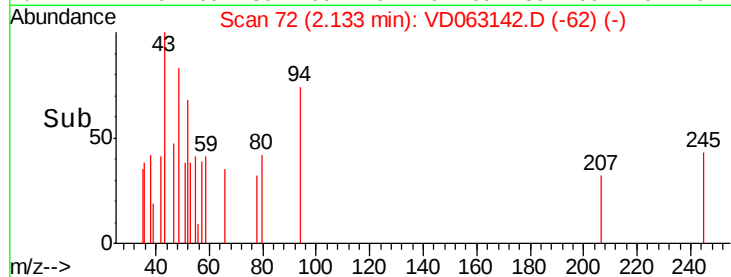
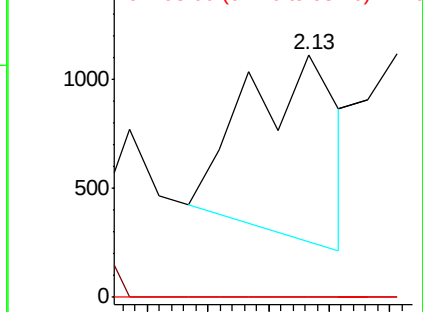
94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#11

Tert butyl alcohol

Concen: 3.088 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD063142.D

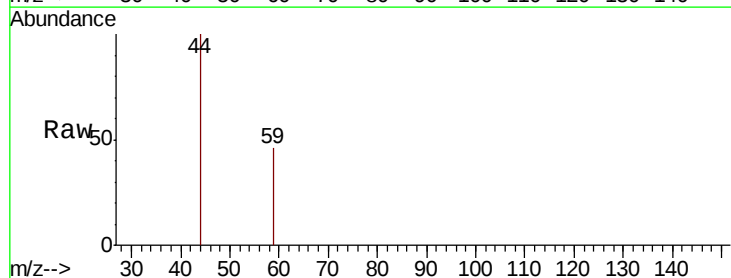
Acq: 17 Jul 2019 20:14

Tgt Ion: 59 Resp: 1615

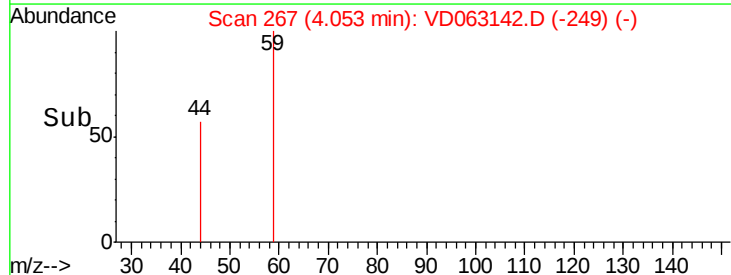
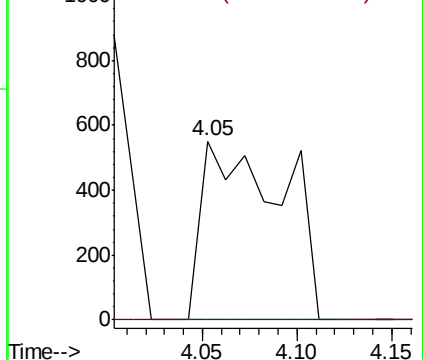
Ion Ratio Lower Upper

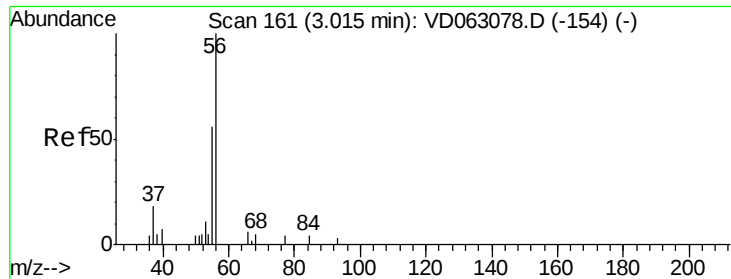
59 100

57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 3.522 ug/l

RT: 2.94 min Scan# 154

Delta R.T. -0.08 min

Lab File: VD063142.D

Acq: 17 Jul 2019 20:14

Instrument :

MSVOA_D

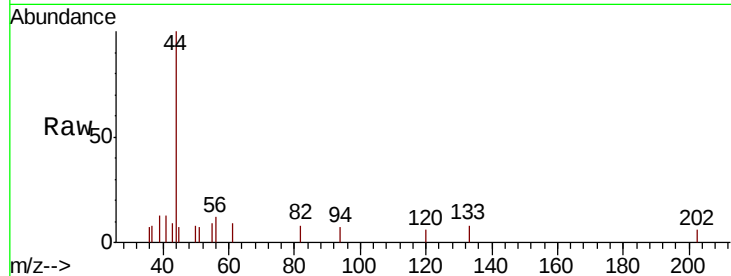
ClientSampleId :

Tot Ion: 56 Resp: 556

Ion Ratio Lower Upper

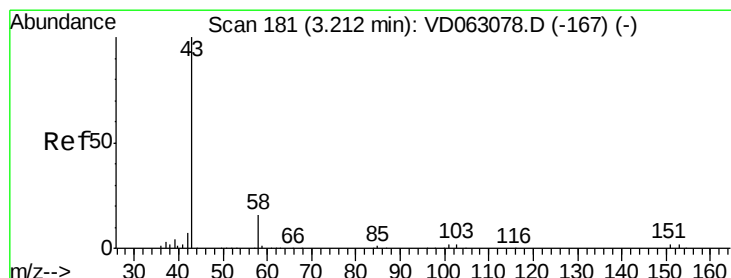
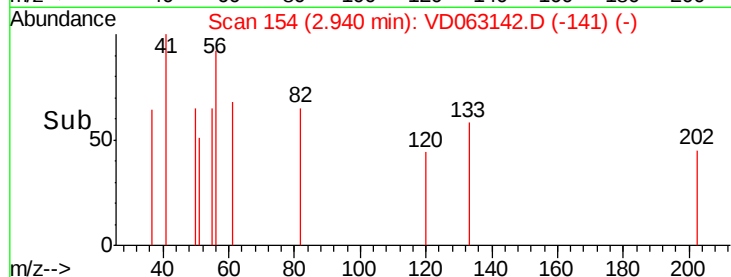
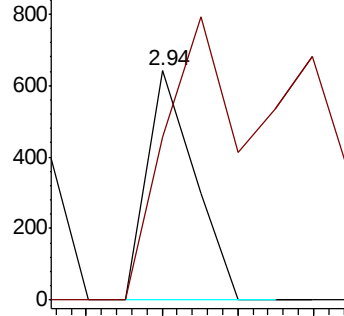
56 100

55 70.9 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 6.233 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063142.D

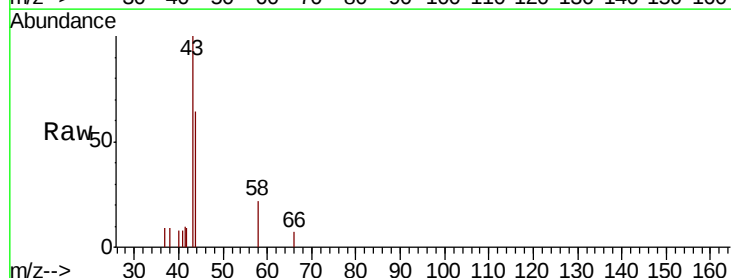
Acq: 17 Jul 2019 20:14

Tgt Ion: 43 Resp: 13643

Ion Ratio Lower Upper

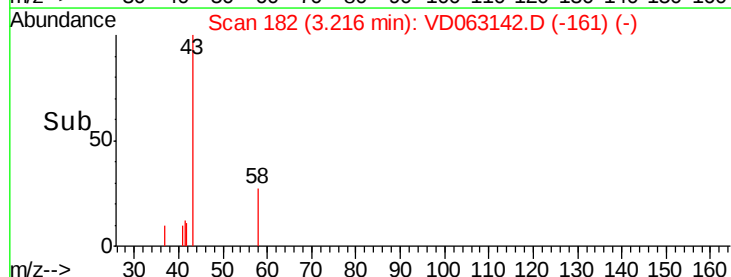
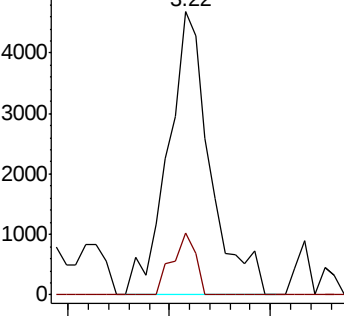
43 100

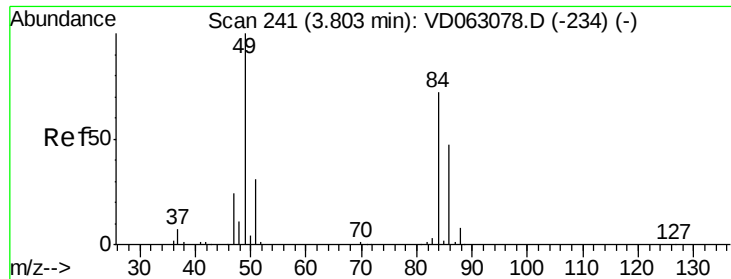
58 22.1 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

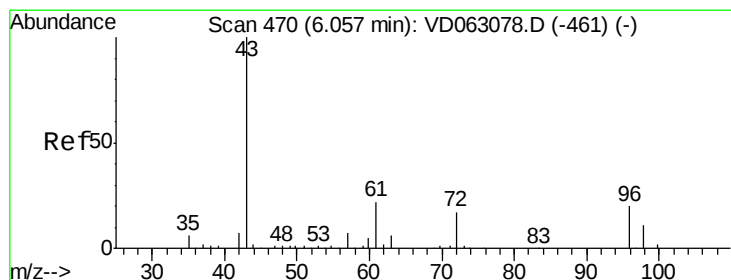
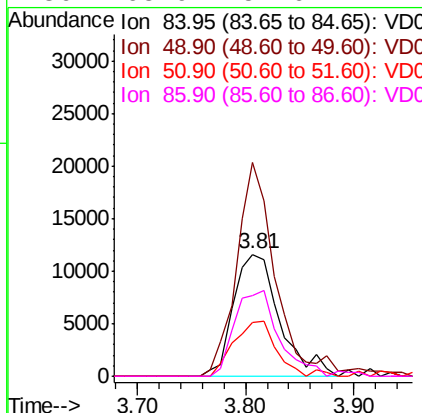
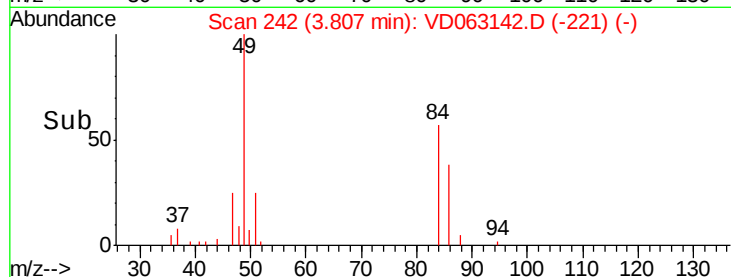
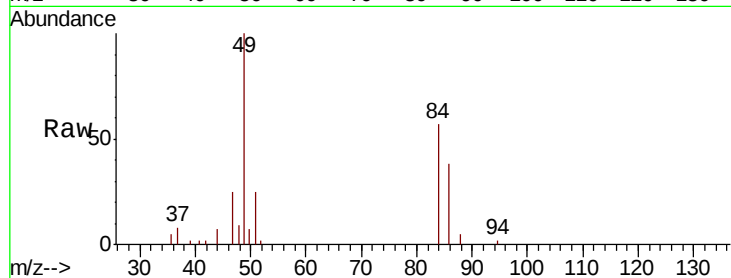




#20
Methylene Chloride
Concen: 4.131 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

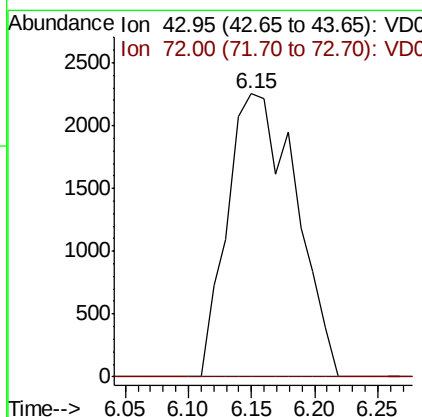
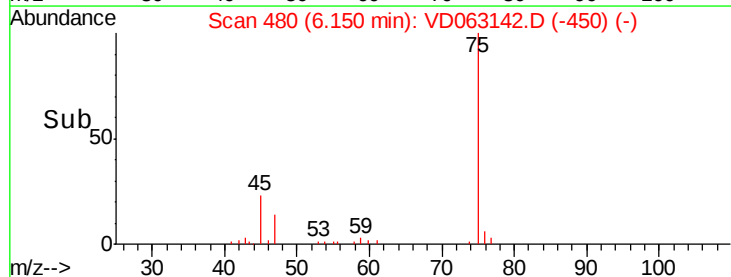
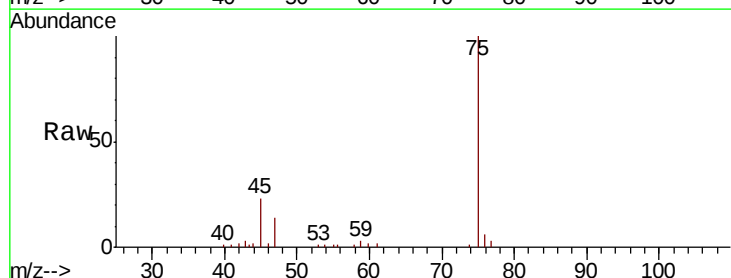
Instrument :
MSVOA_D
ClientSampleId :

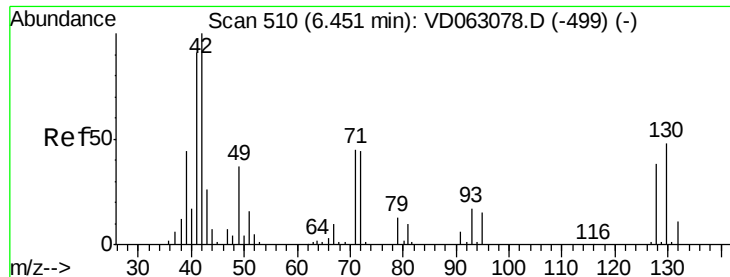
Tot Ion: 84 Resp: 34161
Ion Ratio Lower Upper
84 100
49 175.5 110.5 165.7#
51 44.0 34.6 51.8
86 65.9 51.6 77.4



#25
2-Butanone
Concen: 4.050 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.09 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Tgt Ion: 43 Resp: 8465
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#

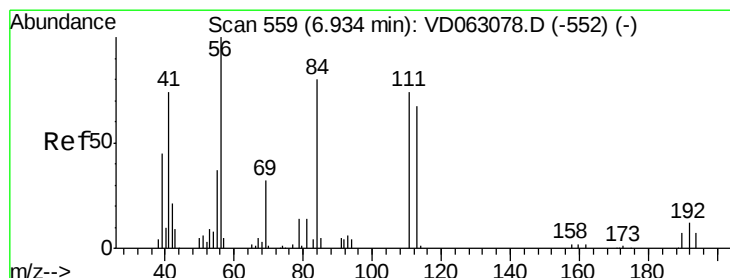
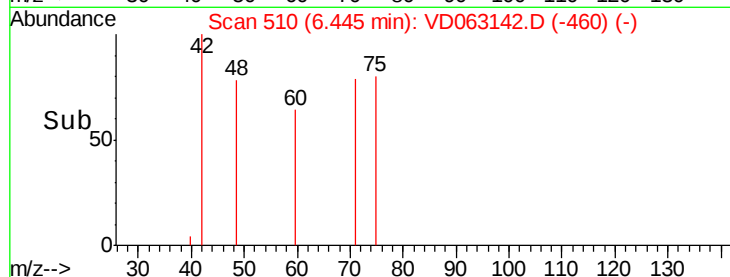
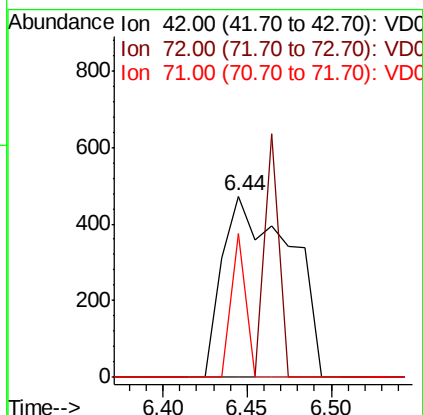
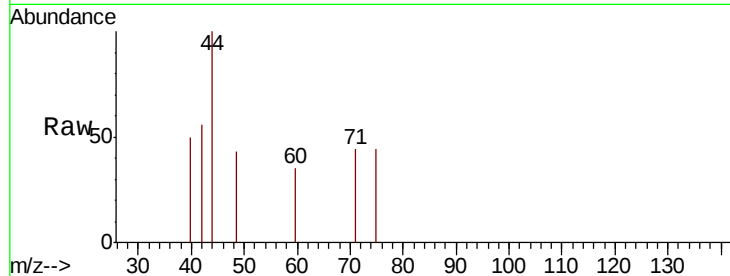




#29
Tetrahydrofuran
Concen: 1.379 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

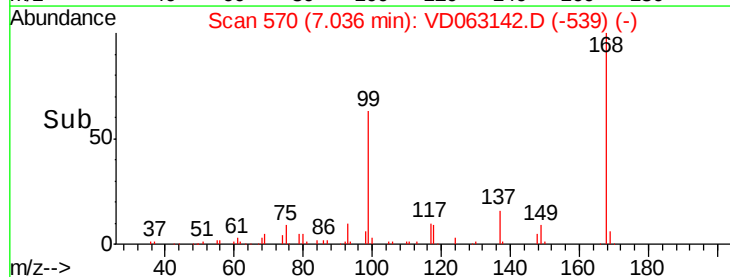
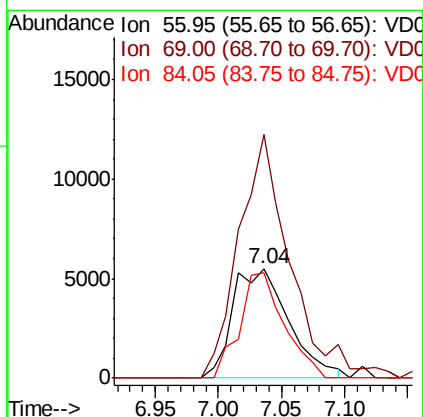
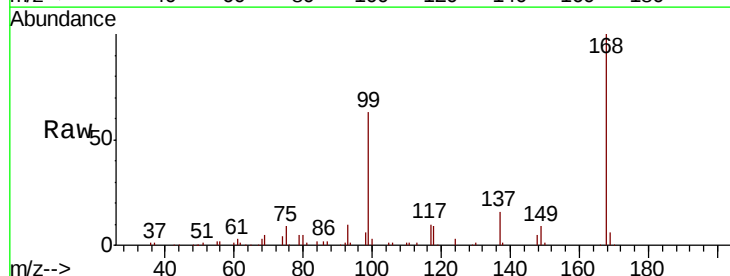
Instrument :
MSVOA_D
ClientSampleId :

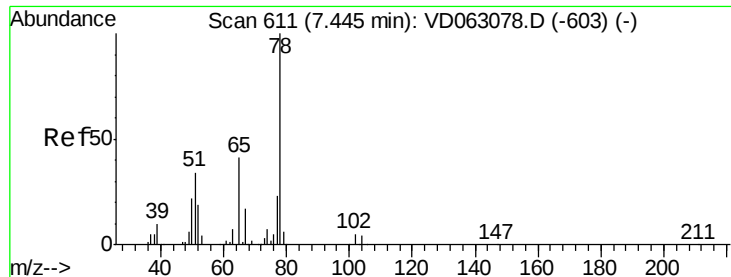
Tot Ion: 42 Resp: 1307
Ion Ratio Lower Upper
42 100
72 28.7 33.7 50.5#
71 16.9 34.2 51.2#



#31
Cyclohexane
Concen: 1.967 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Tgt Ion: 56 Resp: 16968
Ion Ratio Lower Upper
56 100
69 222.8 25.3 37.9#
84 96.7 64.2 96.4#

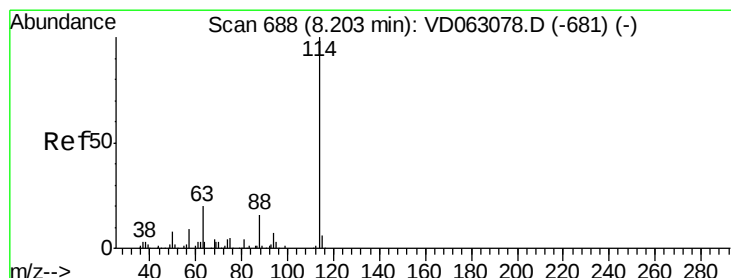
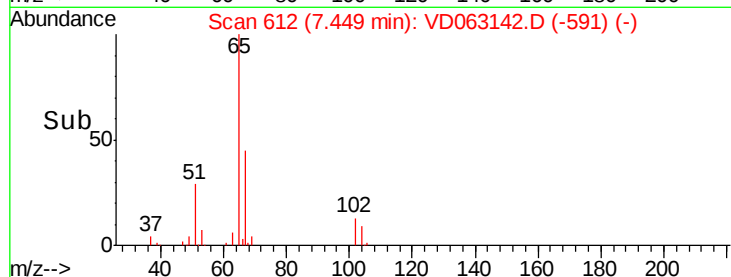
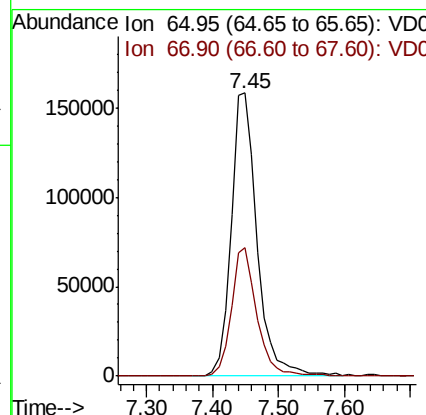
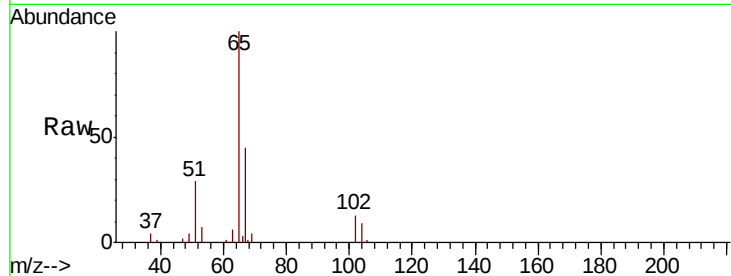




#33
 1,2-Dichloroethane-d4
 Concen: 47.990 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD063142.D
 Acq: 17 Jul 2019 20:14

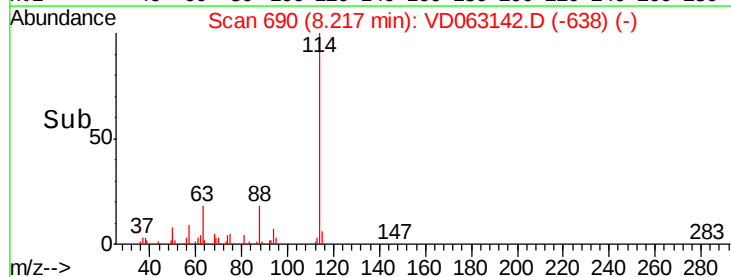
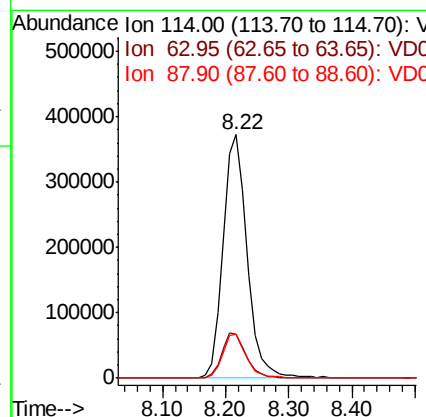
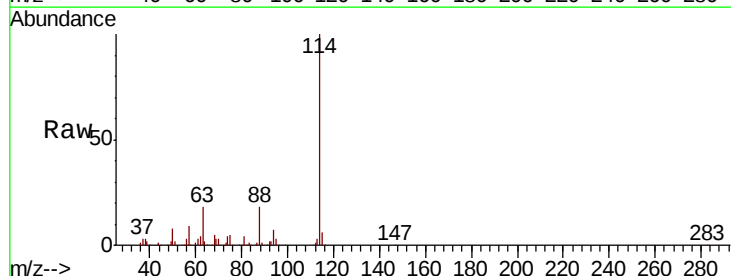
Instrument :
 MSVOA_D
 ClientSampleId :

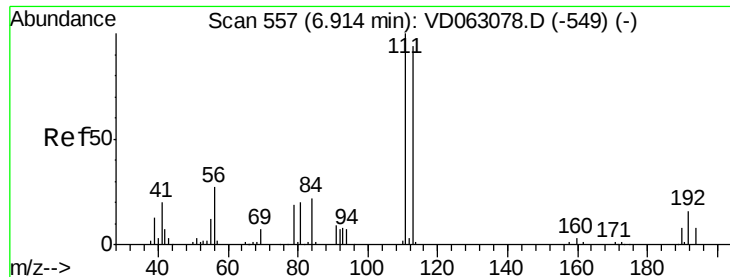
Tot Ion: 65 Resp: 434913
 Ion Ratio Lower Upper
 65 100
 67 45.4 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063142.D
 Acq: 17 Jul 2019 20:14

Tgt Ion: 114 Resp: 990399
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 40.6
 88 18.0 0.0 32.6

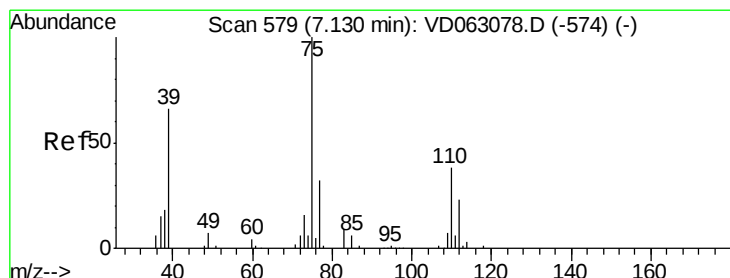
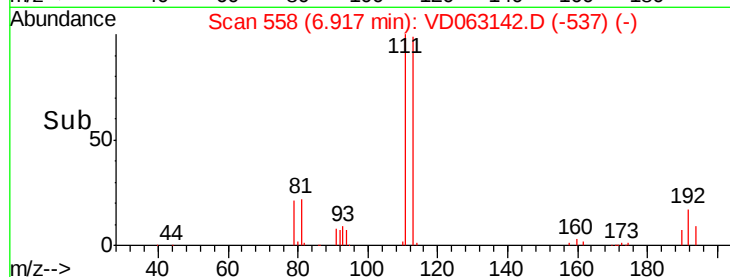
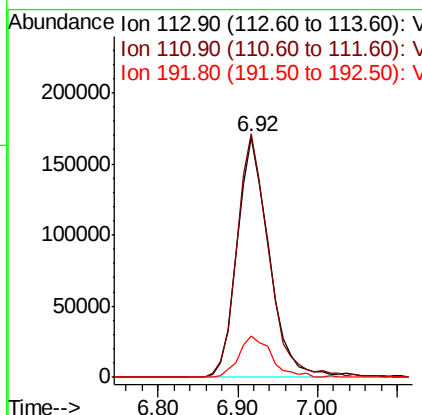
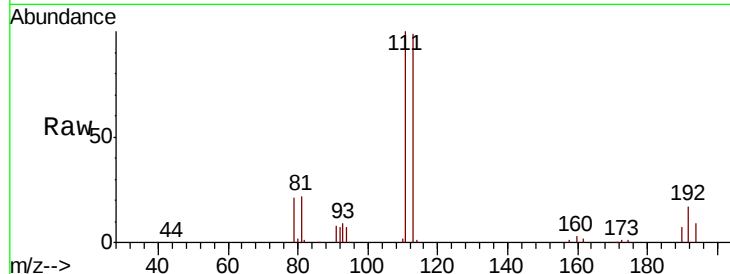




#35
 Dibromofluoromethane
 Concen: 47.437 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: VD063142.D
 Acq: 17 Jul 2019 20:14

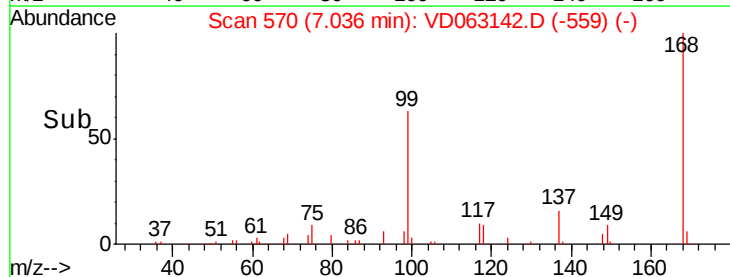
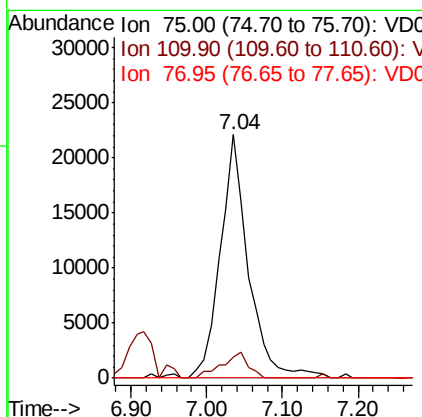
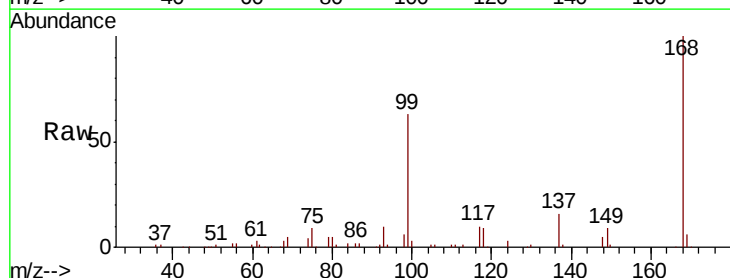
Instrument :
 MSVOA_D
 ClientSampleId :

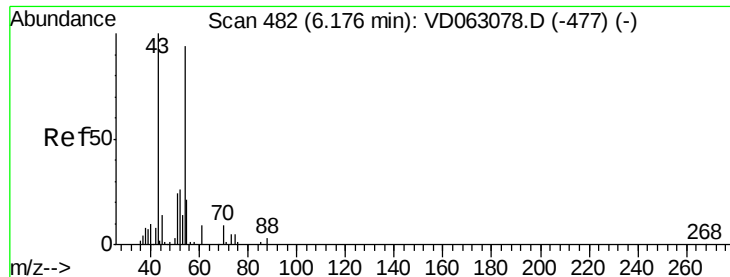
Tot Ion:113 Resp: 467947
 Ion Ratio Lower Upper
 113 100
 111 101.4 84.8 127.2
 192 17.1 13.4 20.0



#36
 1,1-Dichloropropene
 Concen: 5.107 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.09 min
 Lab File: VD063142.D
 Acq: 17 Jul 2019 20:14

Tgt Ion: 75 Resp: 56883
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.9 56.5#
 77 0.0 25.2 37.8#

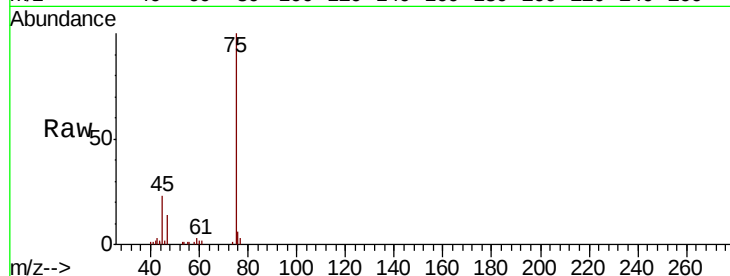




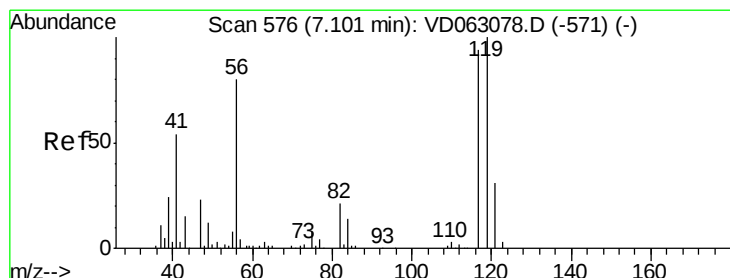
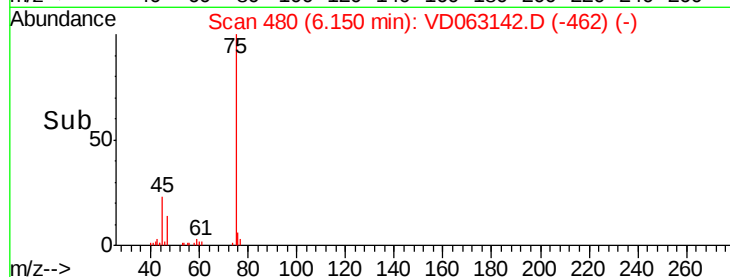
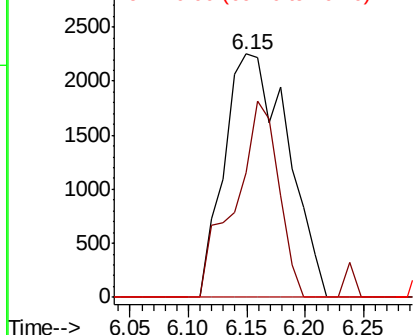
#37
Ethyl Acetate
Concen: 1.776 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.03 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	51.3	10.6	16.0#
70	0.0	6.6	9.8#

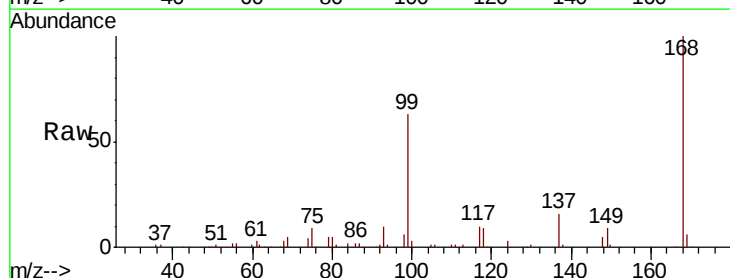


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

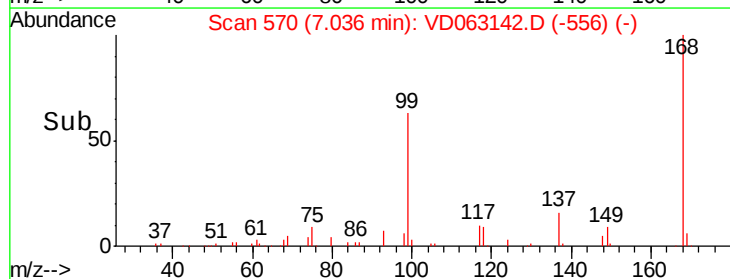
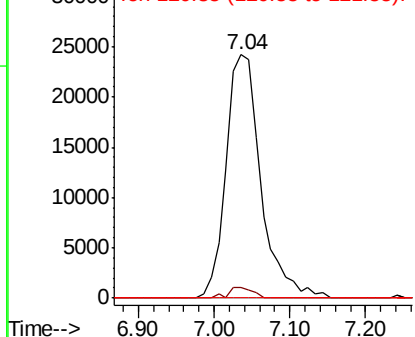


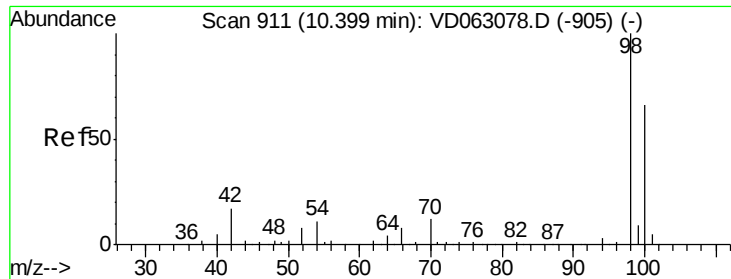
#38
Carbon Tetrachloride
Concen: 4.548 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	80.0	120.0#
121	0.0	25.0	37.4#



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

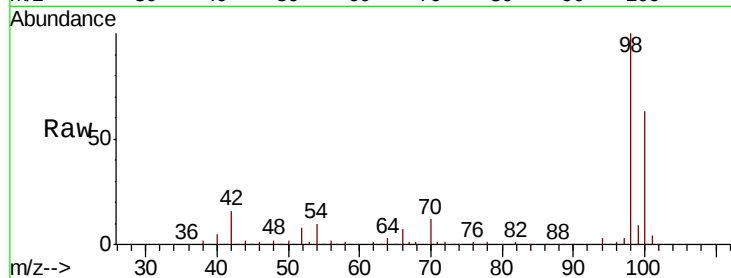




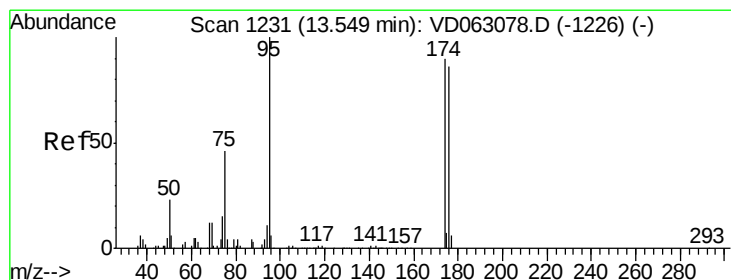
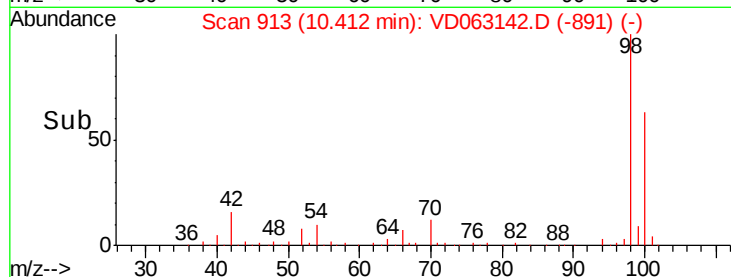
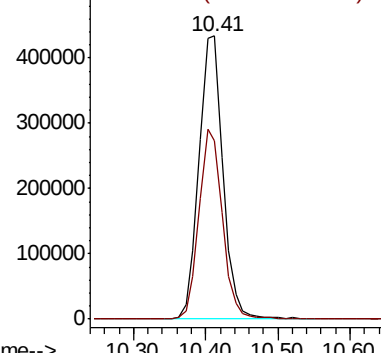
#50
Toluene-d8
Concen: 47.319 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 1002646
Ion Ratio Lower Upper
98 100
100 63.1 53.5 80.3

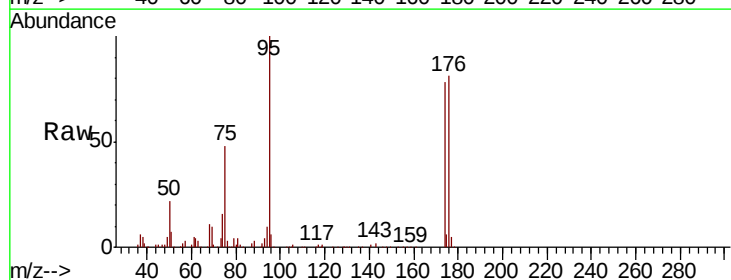


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

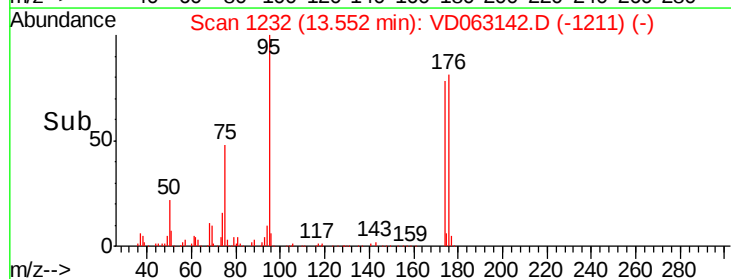
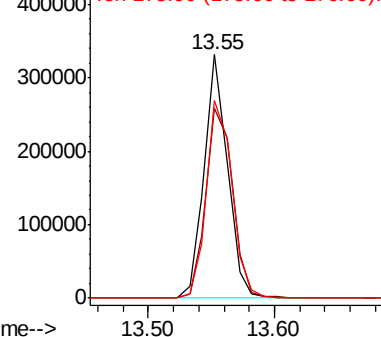


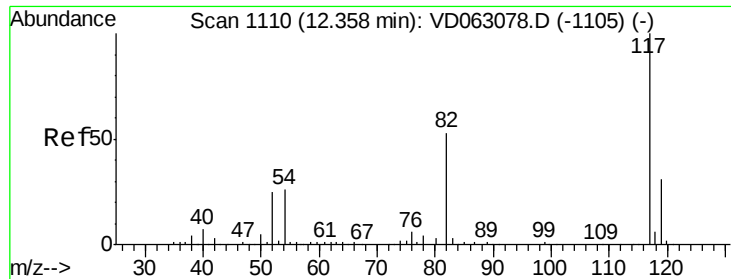
#62
4-Bromofluorobenzene
Concen: 43.182 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Tgt Ion: 95 Resp: 423308
Ion Ratio Lower Upper
95 100
174 78.1 0.0 180.6
176 81.3 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VD0
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

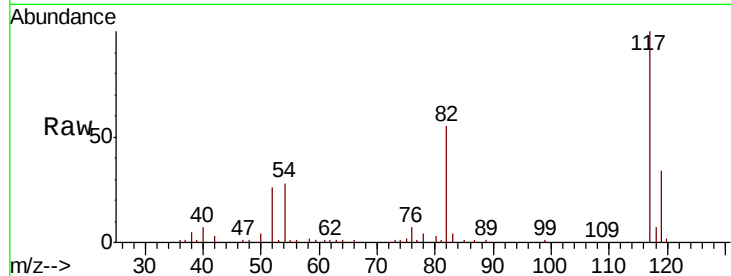




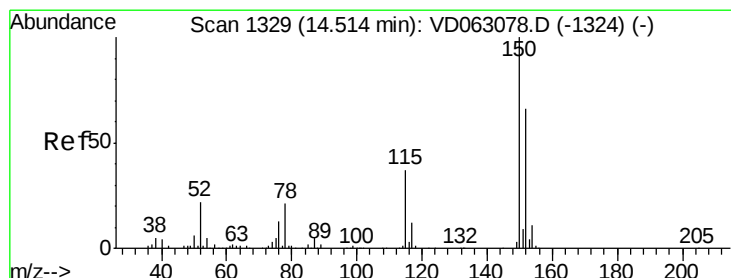
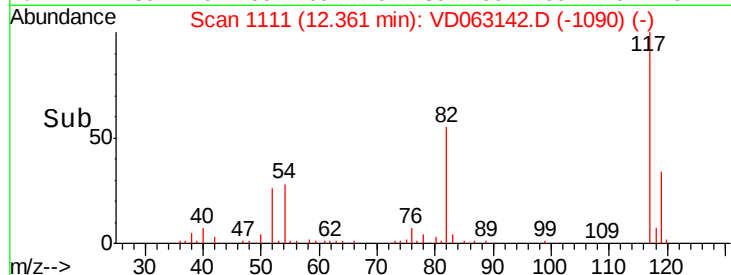
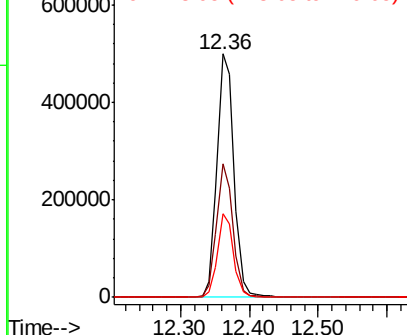
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 851348
Ion Ratio Lower Upper
117 100
82 54.7 42.3 63.5
119 34.3 25.2 37.8

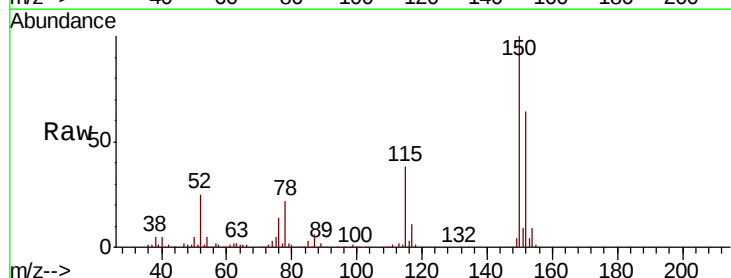


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

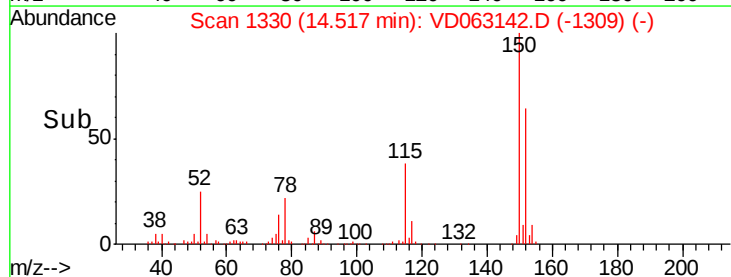
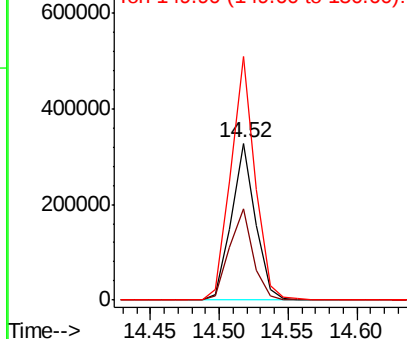


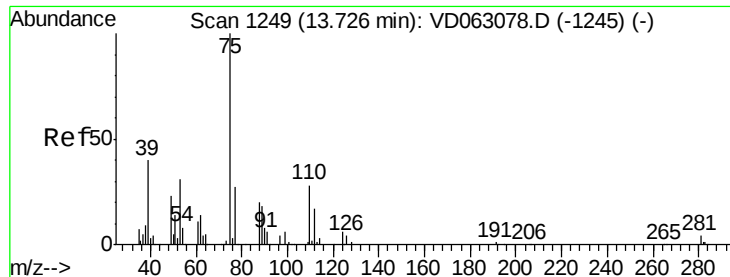
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063142.D
Acq: 17 Jul 2019 20:14

Tgt Ion:152 Resp: 397150
Ion Ratio Lower Upper
152 100
115 58.6 28.9 86.8
150 155.2 0.0 313.8



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





#76

1,2,3-Trichloropropane

Concen: 24.755 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063142.D

Acq: 17 Jul 2019 20:14

Instrument :

MSVOA_D

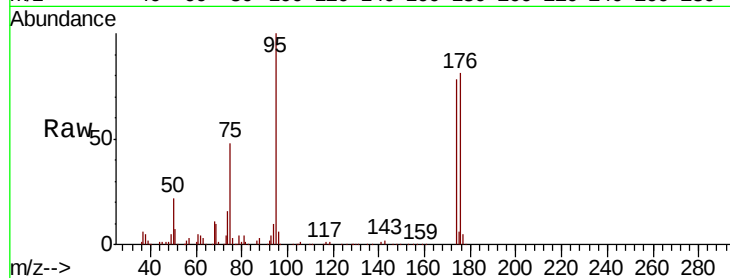
ClientSampleId :

Tot Ion: 75 Resp: 151234

Ion Ratio Lower Upper

75 100

77 0.8 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.55

150000

100000

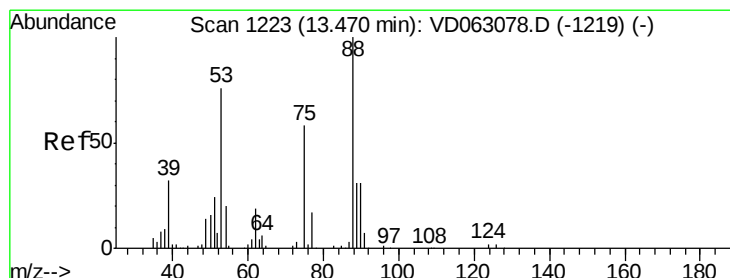
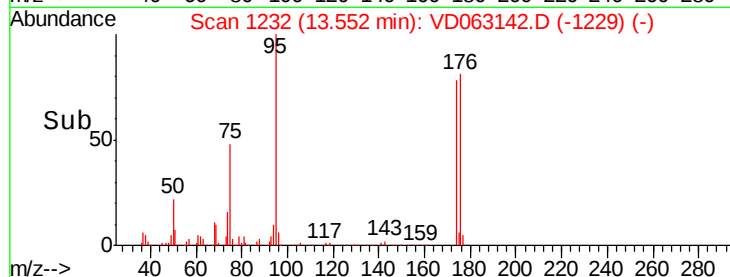
50000

0

13.55

13.60

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 124.912 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063142.D

Acq: 17 Jul 2019 20:14

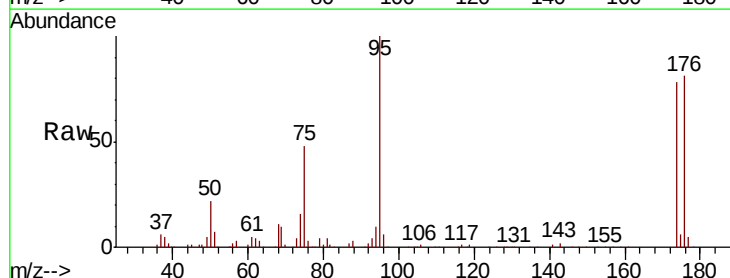
Tgt Ion: 75 Resp: 200959

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



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

200000

150000

100000

50000

0

13.55

13.60

13.65

Time-->

