

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081519\
 Data File : VD063613.D
 Acq On : 15 Aug 2019 18:43
 Operator : JC/SY
 Sample : K4356-07
 Misc : 1.99g/5ml/MSVOA_D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4

Quant Time: Aug 16 01:06:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	616150	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	718126	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	295391	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	58367	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	289951	44.02	ug/l	-0.03
Spiked Amount			Recovery	=	88.04%	
35) Dibromofluoromethane	6.92	113	318343	52.64	ug/l	-0.02
Spiked Amount			Recovery	=	105.28%	
50) Toluene-d8	10.40	98	418685	31.49	ug/l	-0.02
Spiked Amount			Recovery	=	62.98%	
62) 4-Bromofluorobenzene	13.55	95	64604	10.72	ug/l	-0.01
Spiked Amount			Recovery	=	21.44%	

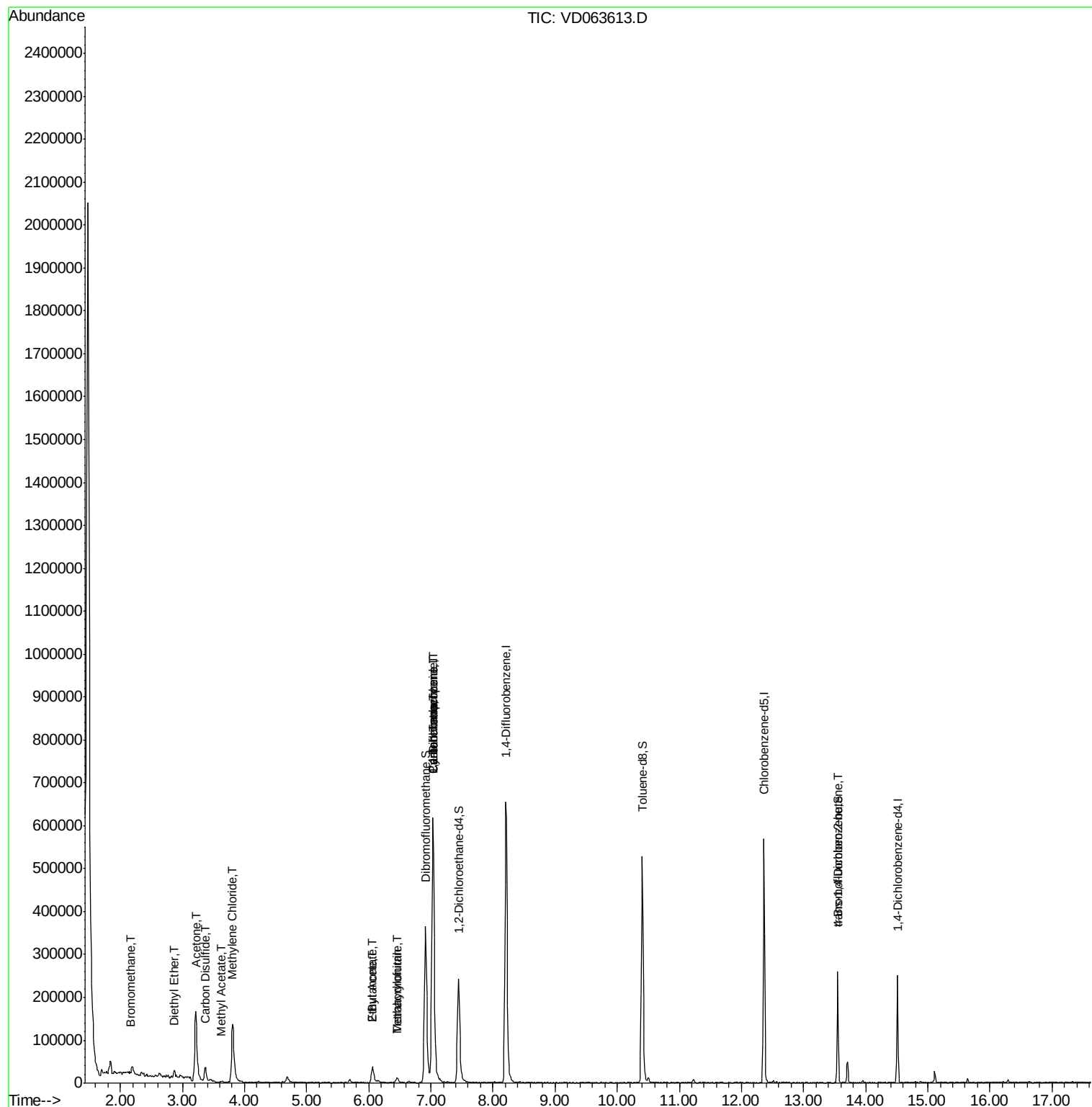
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	2776	1.018	ug/l #	11
8) Diethyl Ether	2.87	74	5138	3.209	ug/l	93
16) Acetone	3.22	43	316812	236.632	ug/l	98
17) Carbon Disulfide	3.36	76	62036	3.948	ug/l	100
18) Methyl Acetate	3.63	43	6594	2.600	ug/l #	57
20) Methylene Chloride	3.81	84	86836	14.999	ug/l #	84
25) 2-Butanone	6.07	43	76386	57.768	ug/l	92
29) Tetrahydrofuran	6.44	42	10469	16.991	ug/l #	84
31) Cyclohexane	7.03	56	14976	2.518	ug/l #	23
36) 1,1-Dichloropropene	7.03	75	43071	6.785	ug/l #	53
37) Ethyl Acetate	6.07	43	76381	28.713	ug/l #	73
38) Carbon Tetrachloride	7.03	117	60907	6.366	ug/l #	17
41) Methacrylonitrile	6.44	41	5429	1.621	ug/l #	68
81) trans-1,4-Dichloro-2-buten	13.55	75	29908	166.118	ug/l #	1

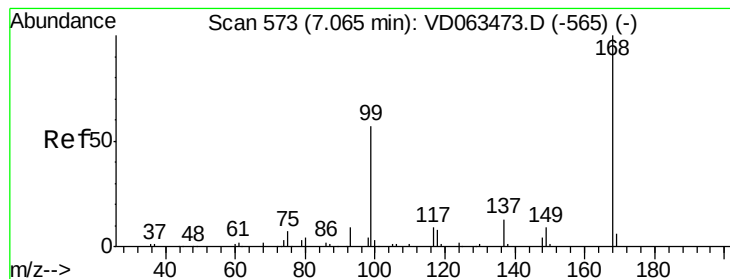
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063613.D

Acq: 15 Aug 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

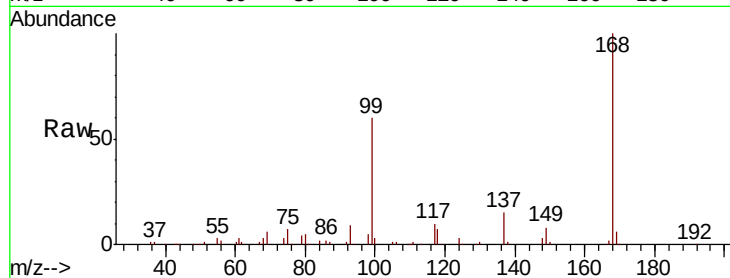
TP-4

Tgt Ion: 168 Resp: 616150

Ion Ratio Lower Upper

168 100

99 60.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

150000

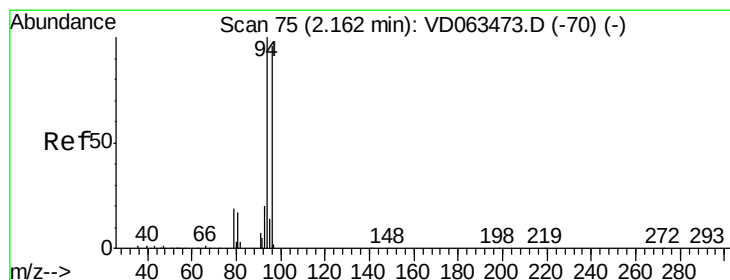
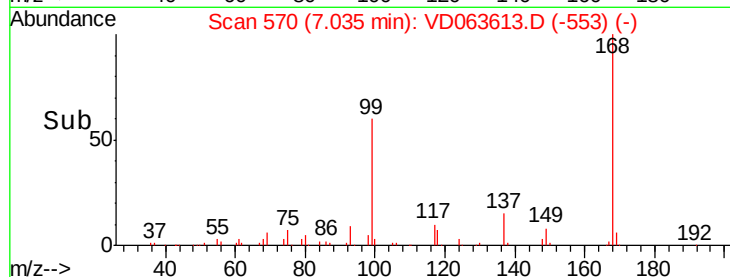
100000

50000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#5

Bromomethane

Concen: 1.018 ug/l

RT: 2.16 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD063613.D

Acq: 15 Aug 2019 18:43

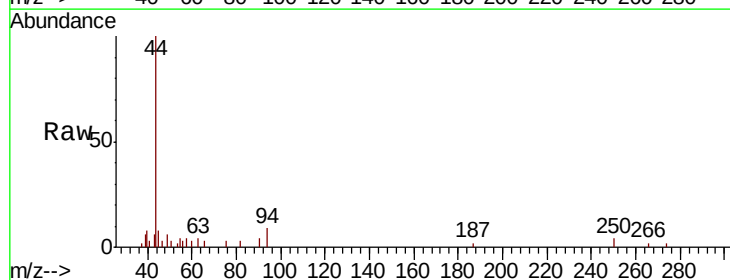
Tgt Ion: 94 Resp: 2776

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



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

2000

1500

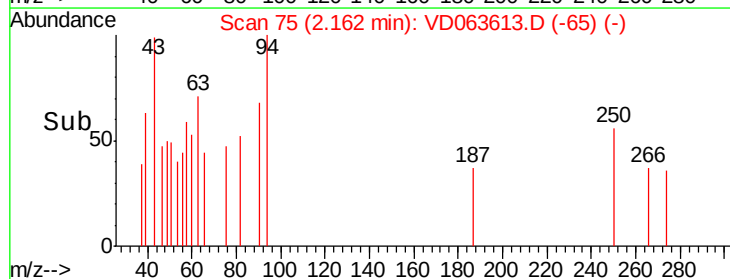
1000

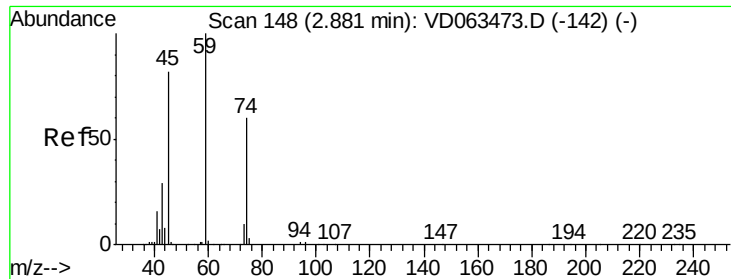
500

0

Time-->

2.15 2.20





#8

Diethyl Ether

Concen: 3.209 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD063613.D

Acq: 15 Aug 2019 18:43

Instrument :

MSVOA_D

ClientSampled :

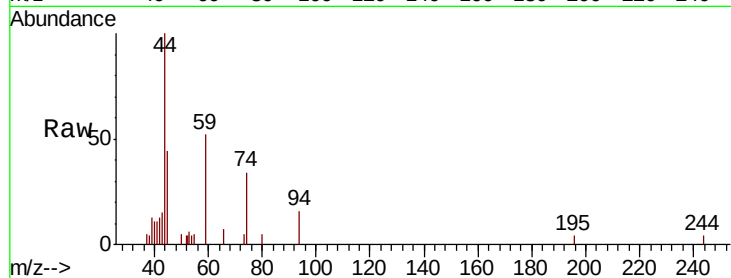
TP-4

Tgt Ion: 74 Resp: 5138

Ion Ratio Lower Upper

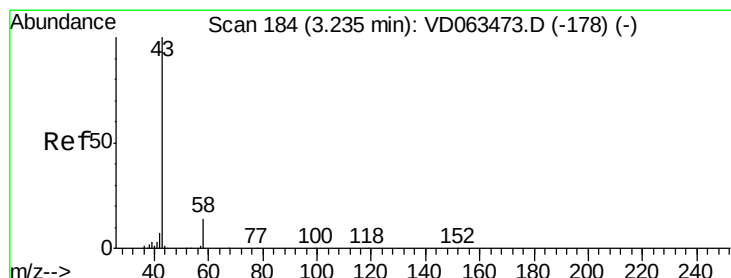
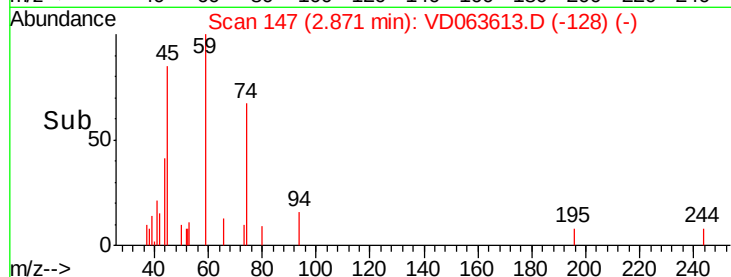
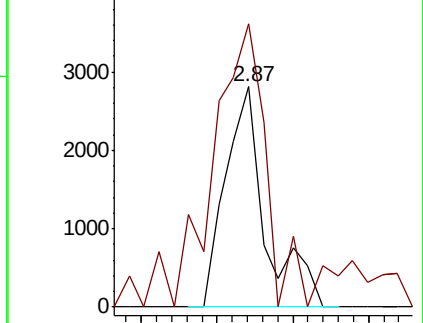
74 100

45 128.4 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 236.632 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063613.D

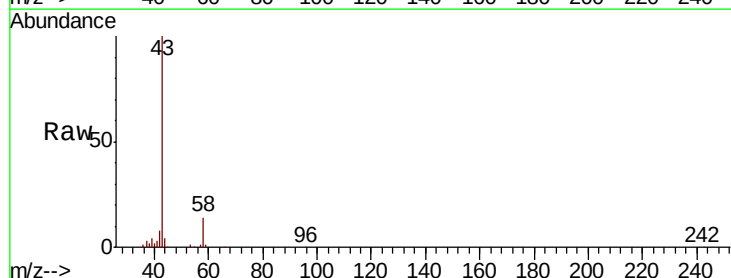
Acq: 15 Aug 2019 18:43

Tgt Ion: 43 Resp: 316812

Ion Ratio Lower Upper

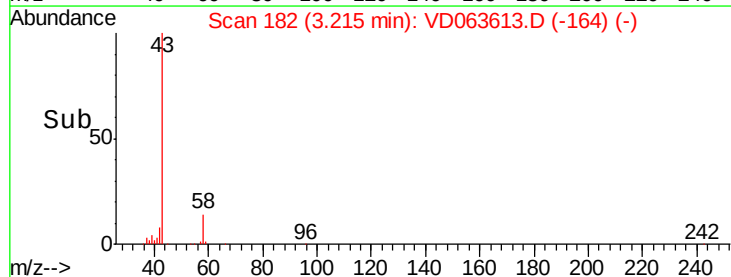
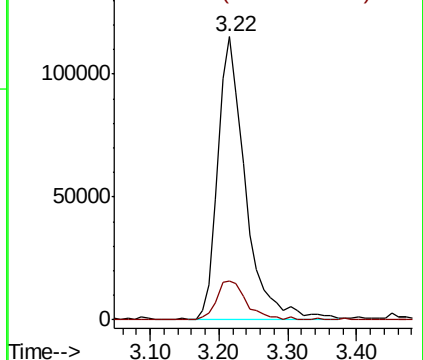
43 100

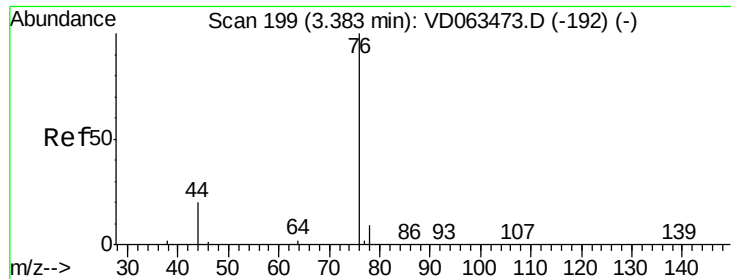
58 13.5 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 3.948 ug/l

RT: 3.36 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD063613.D

Acq: 15 Aug 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

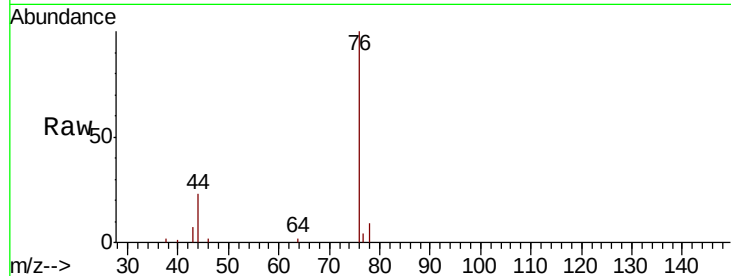
TP-4

Tgt Ion: 76 Resp: 62036

Ion Ratio Lower Upper

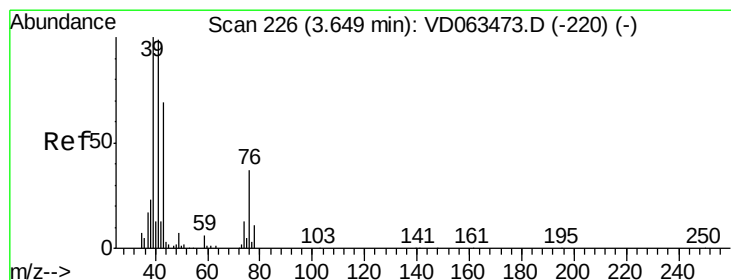
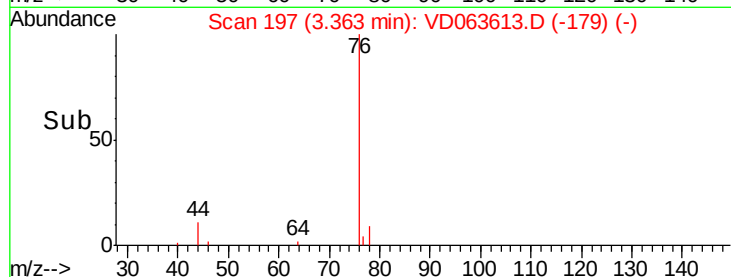
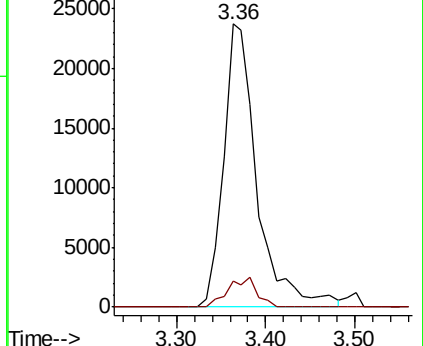
76 100

78 9.2 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 2.600 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.02 min

Lab File: VD063613.D

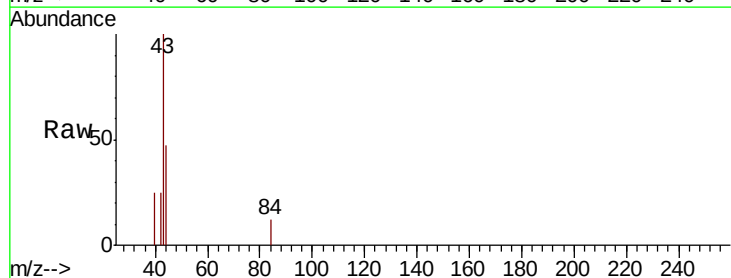
Acq: 15 Aug 2019 18:43

Tgt Ion: 43 Resp: 6594

Ion Ratio Lower Upper

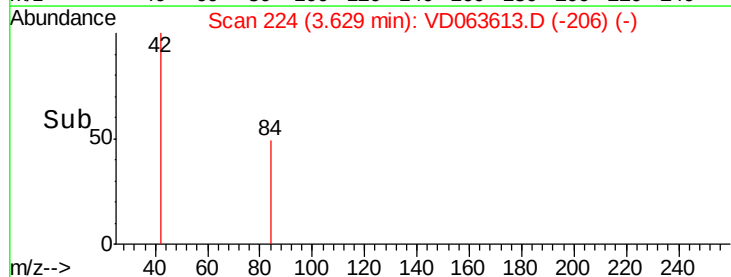
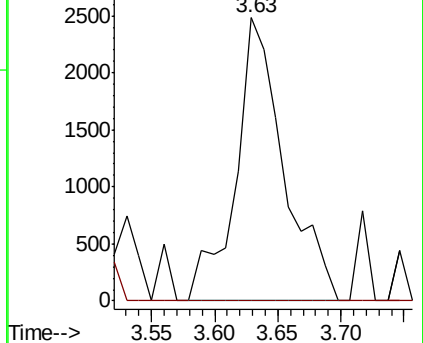
43 100

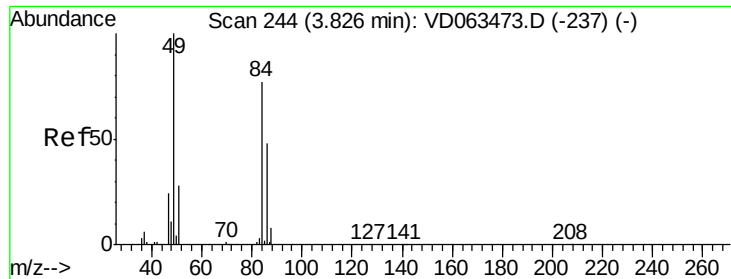
74 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

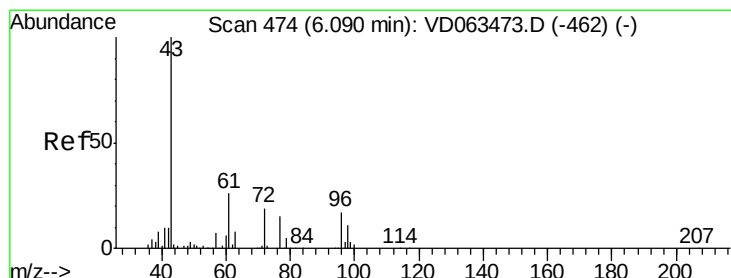
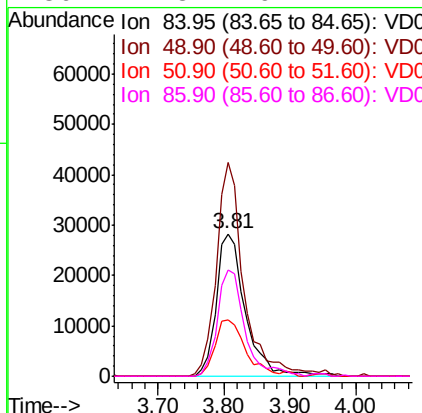
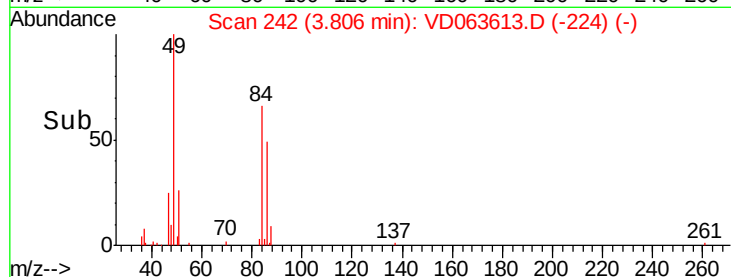
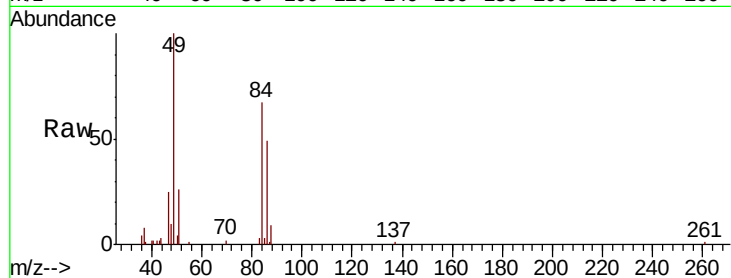




#20
Methylene Chloride
Concen: 14.999 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

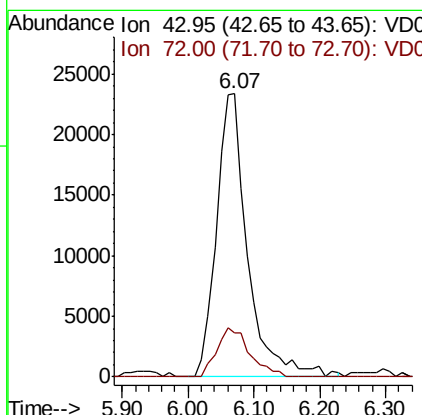
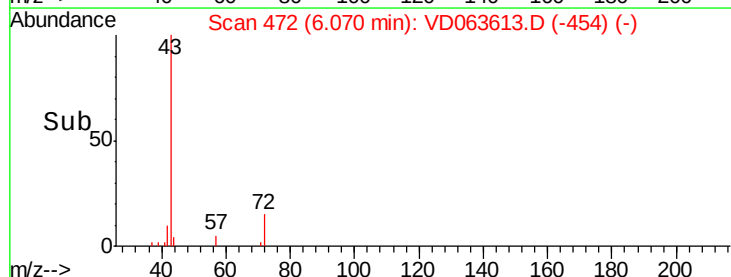
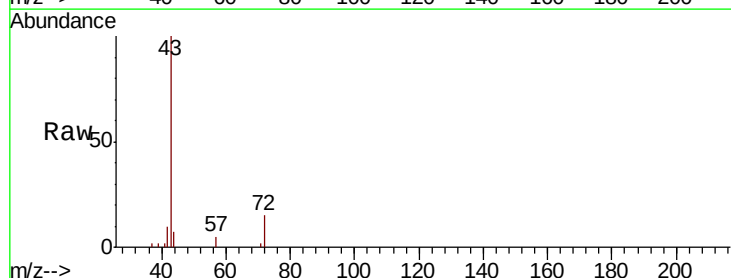
Instrument :
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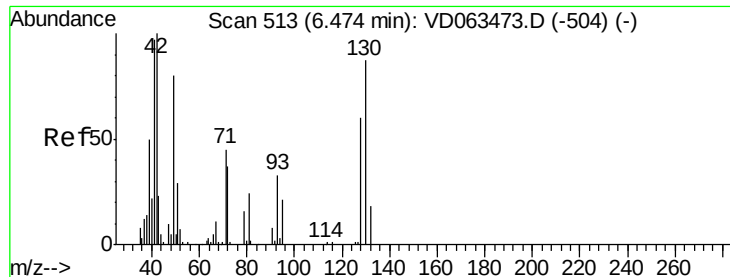
Tgt Ion: 84 Resp: 86836
Ion Ratio Lower Upper
84 100
49 150.1 103.4 155.2
51 39.6 28.5 42.7
86 74.3 49.4 74.2#



#25
2-Butanone
Concen: 57.768 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

Tgt Ion: 43 Resp: 76386
Ion Ratio Lower Upper
43 100
72 15.5 15.1 22.7

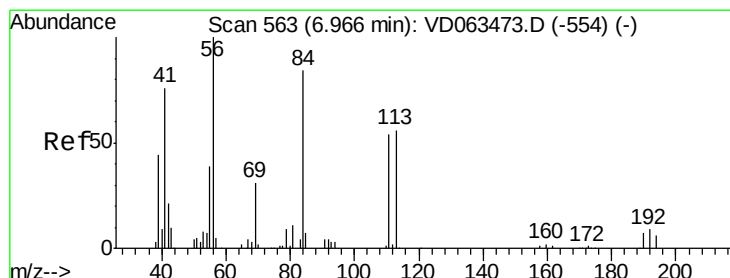
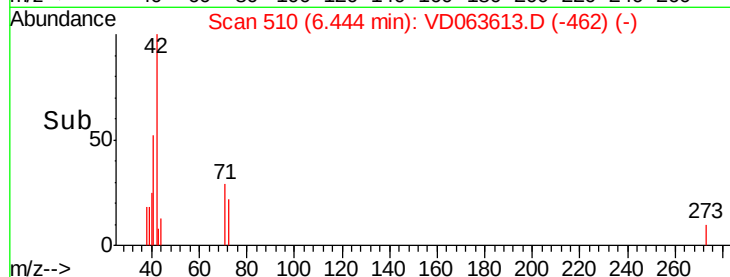
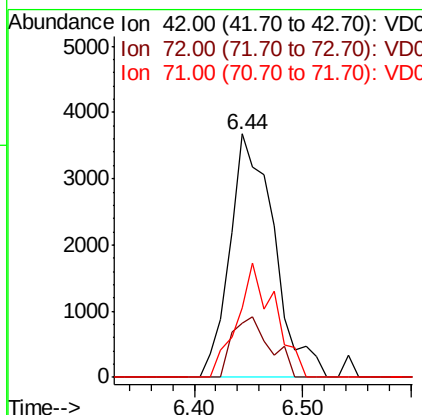
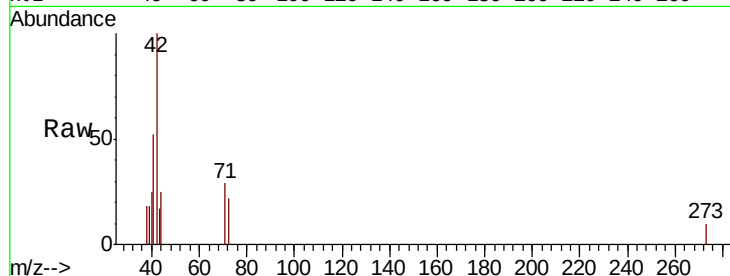




#29
Tetrahydrofuran
Concen: 16.991 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.03 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

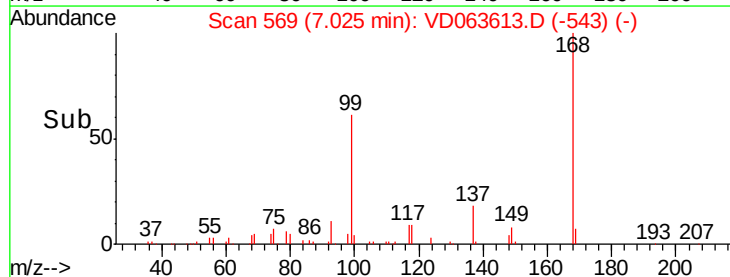
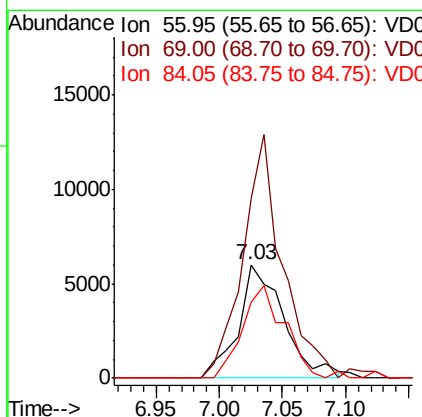
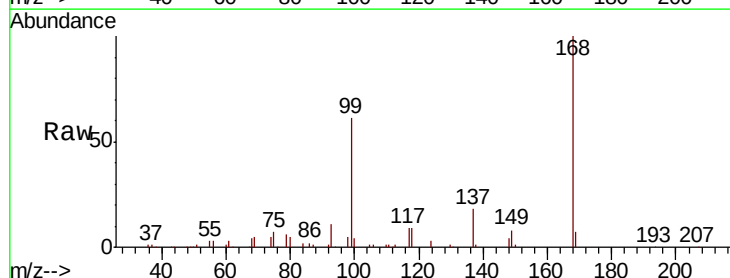
Instrument :
MSVOA_D
ClientSampleId :
TP-4

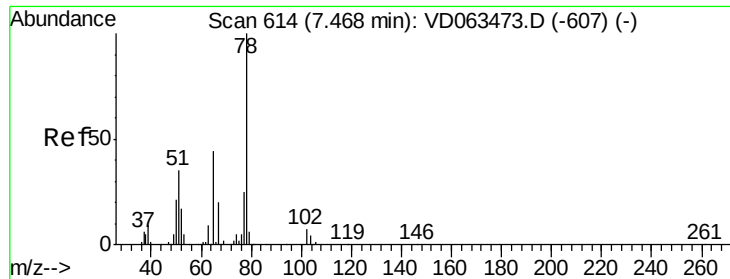
Tgt Ion: 42 Resp: 10469
Ion Ratio Lower Upper
42 100
72 21.3 31.5 47.3#
71 39.9 33.8 50.8



#31
Cyclohexane
Concen: 2.518 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.06 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

Tgt Ion: 56 Resp: 14976
Ion Ratio Lower Upper
56 100
69 158.3 25.0 37.6#
84 66.8 69.7 104.5#

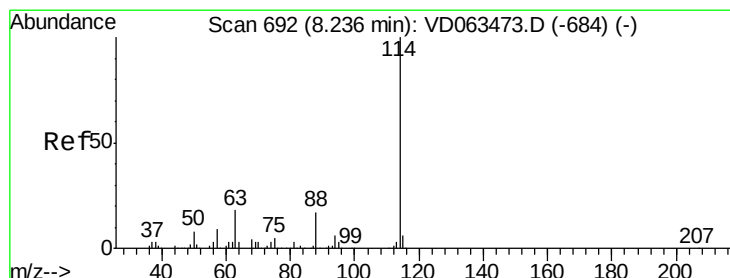
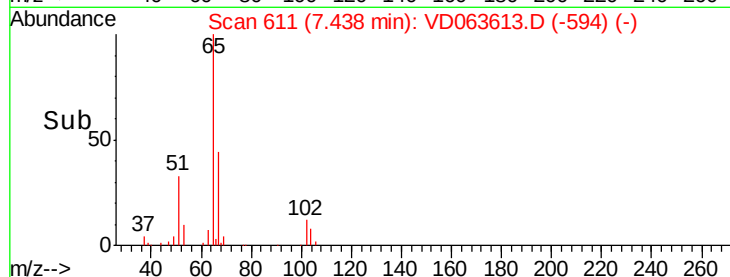
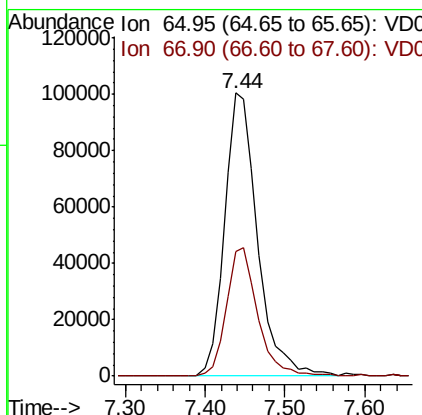
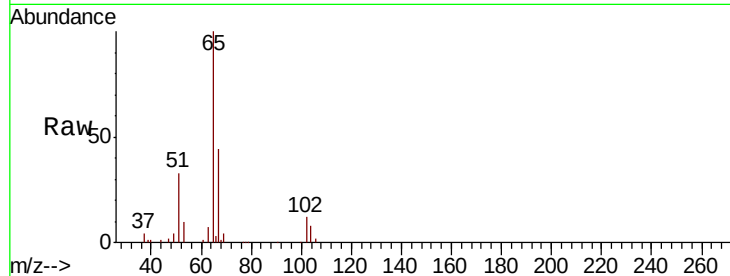




#33
 1,2-Dichloroethane-d4
 Concen: 44.024 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD063613.D
 Acq: 15 Aug 2019 18:43

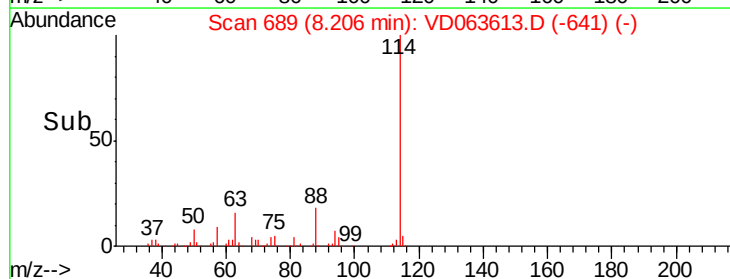
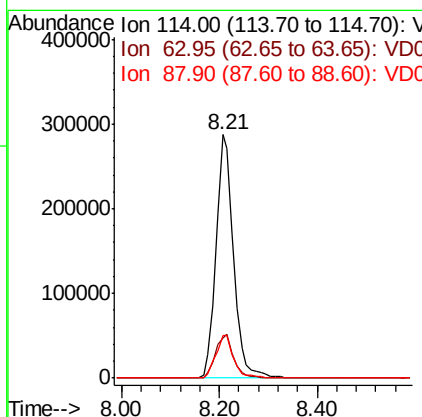
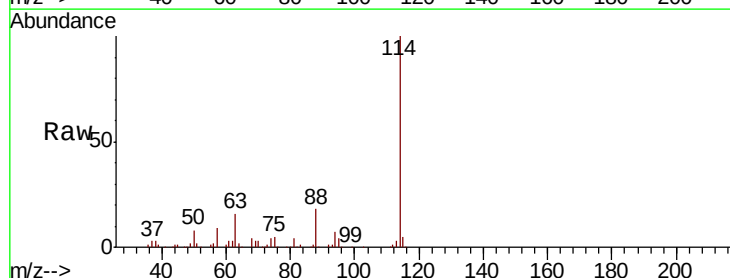
Instrument :
 MSVOA_D
 ClientSampled :
 TP-4

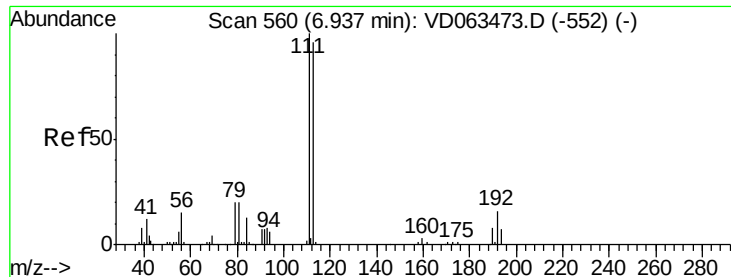
Tgt Ion: 65 Resp: 289951
 Ion Ratio Lower Upper
 65 100
 67 44.0 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD063613.D
 Acq: 15 Aug 2019 18:43

Tgt Ion: 114 Resp: 718126
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 36.2
 88 17.6 0.0 35.0

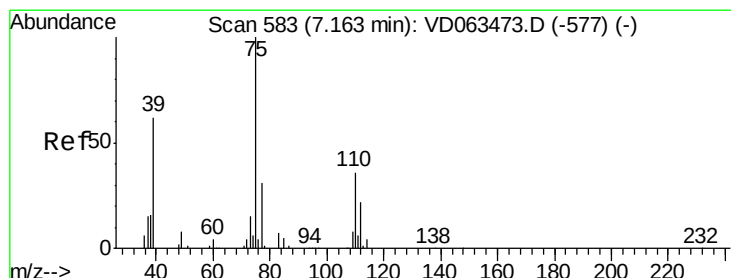
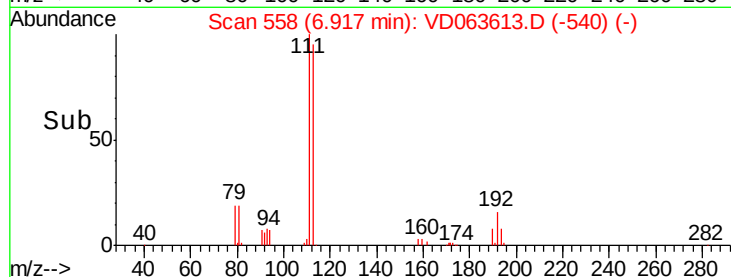
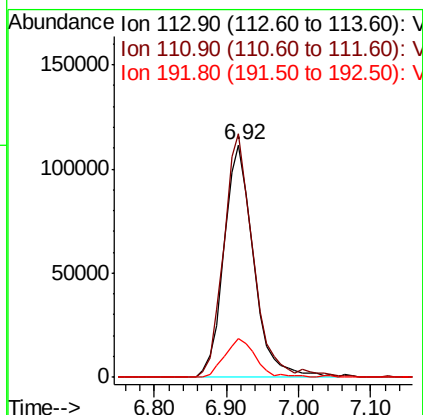
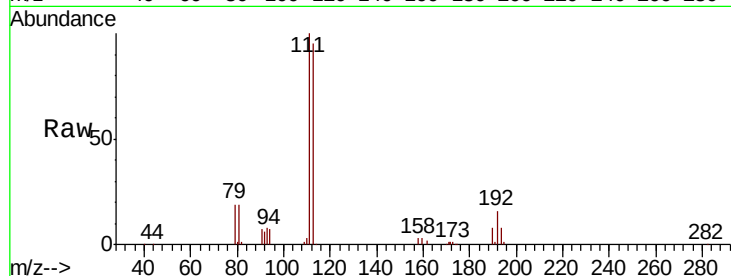




#35
 Dibromofluoromethane
 Concen: 52.635 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD063613.D
 Acq: 15 Aug 2019 18:43

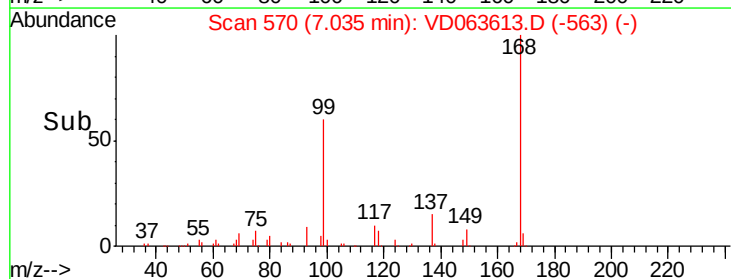
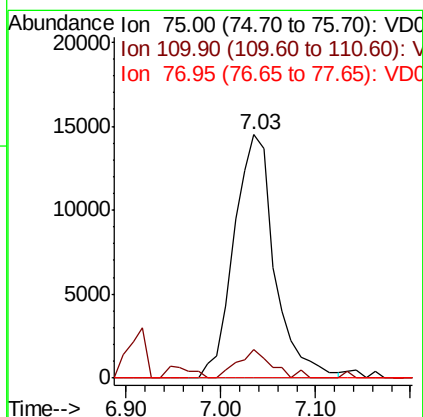
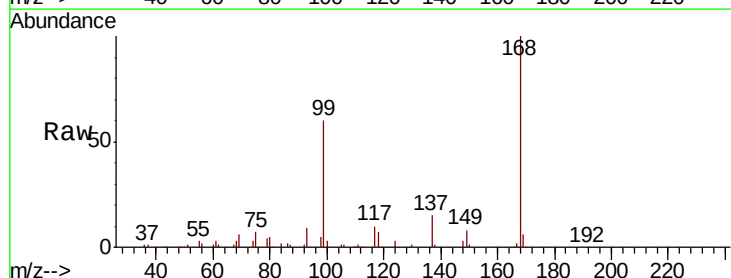
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4

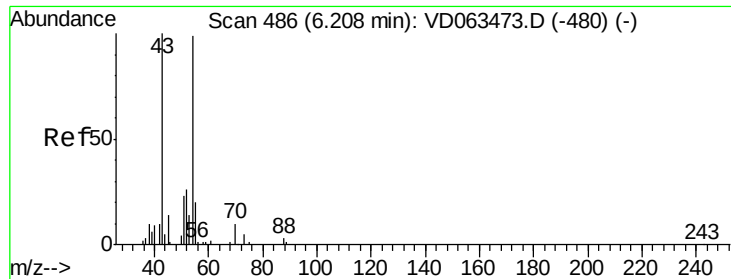
Tgt Ion: 113 Resp: 318343
 Ion Ratio Lower Upper
 113 100
 111 104.8 83.1 124.7
 192 16.5 13.1 19.7



#36
 1,1-Dichloropropene
 Concen: 6.785 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD063613.D
 Acq: 15 Aug 2019 18:43

Tgt Ion: 75 Resp: 43071
 Ion Ratio Lower Upper
 75 100
 110 11.7 17.6 52.8#
 77 0.0 24.3 36.5#

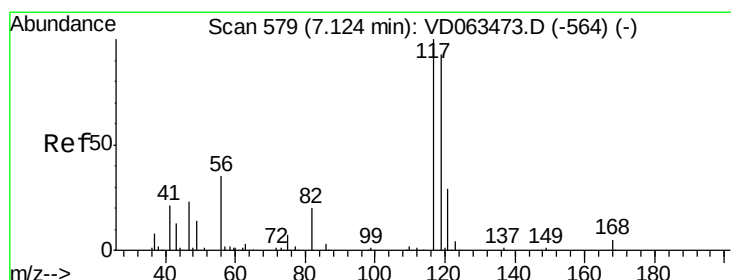
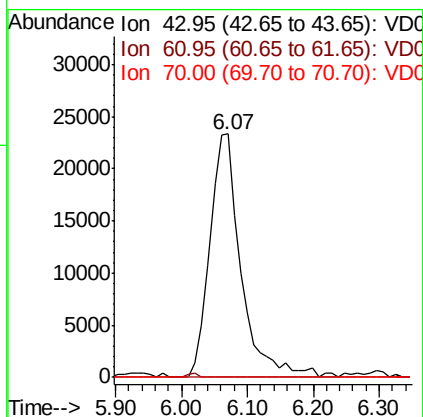
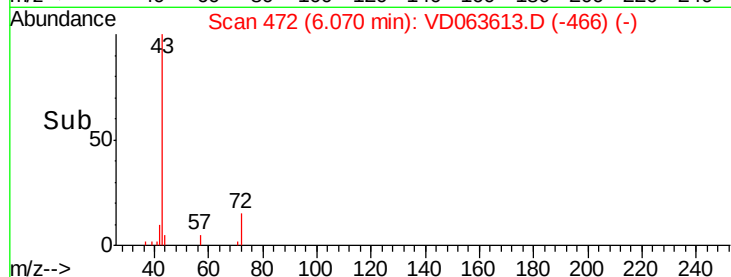
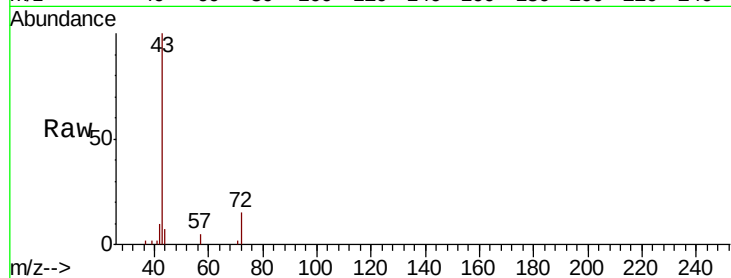




#37
Ethyl Acetate
Concen: 28.713 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.14 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

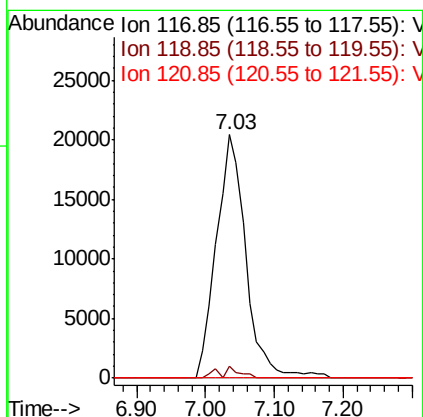
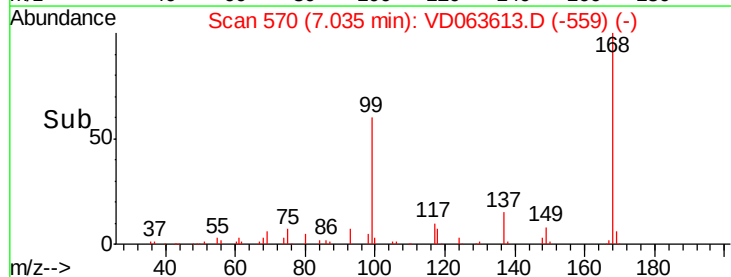
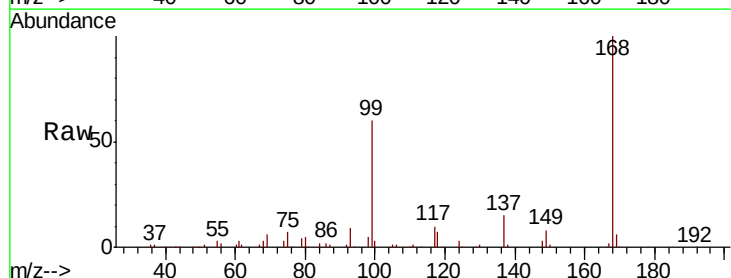
Instrument :
MSVOA_D
ClientSampleId :
TP-4

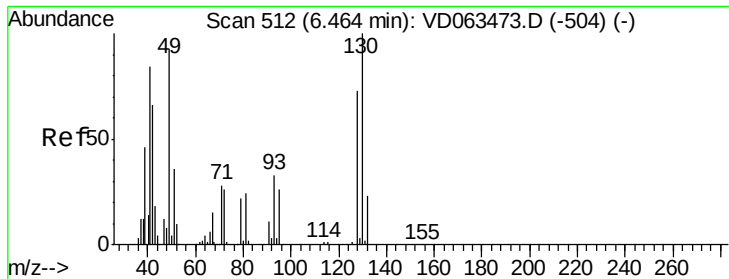
Tgt Ion: 43 Resp: 76381
Ion Ratio Lower Upper
43 100
61 0.0 9.0 13.6#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 6.366 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.09 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

Tgt Ion: 117 Resp: 60907
Ion Ratio Lower Upper
117 100
119 4.8 74.2 111.2#
121 0.0 23.1 34.7#

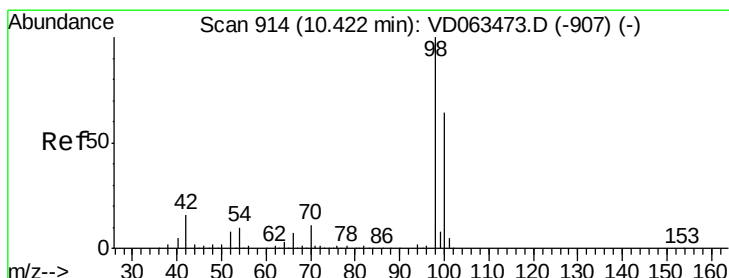
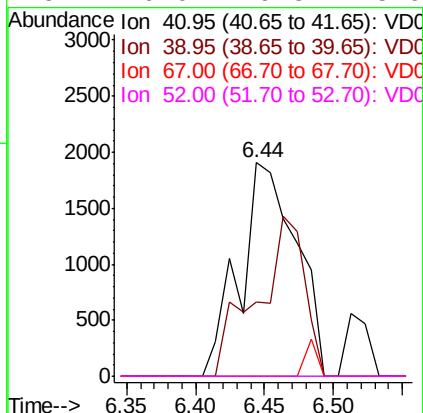
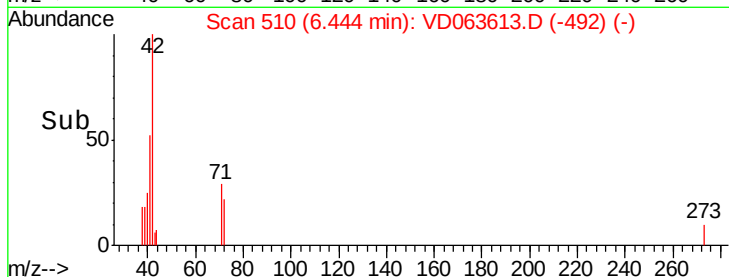
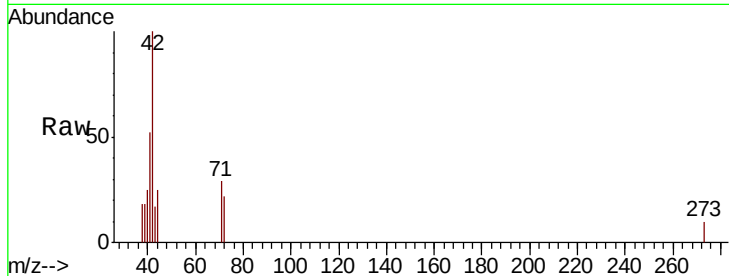




#41
Methacrylonitrile
Concen: 1.621 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.02 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

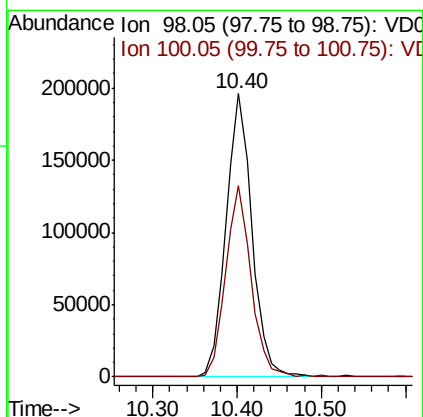
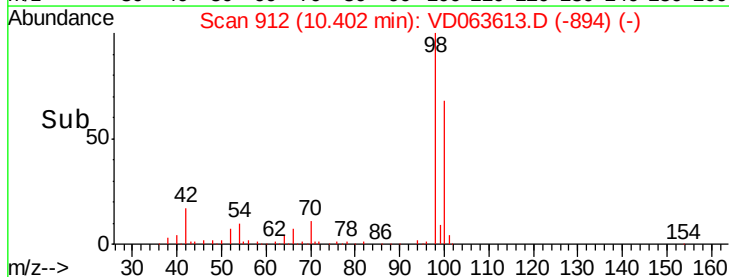
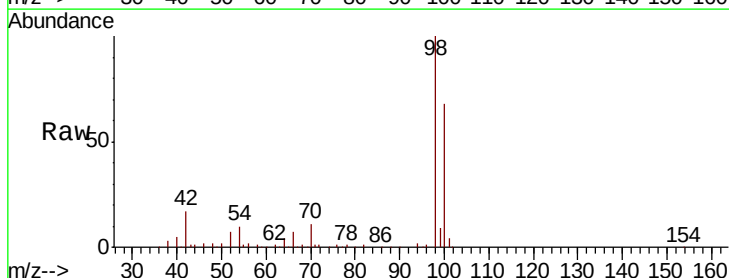
Instrument :
MSVOA_D
ClientSampleId :
TP-4

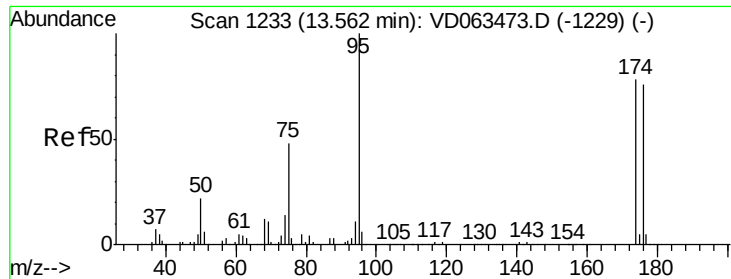
Tgt Ion: 41 Resp: 5429
Ion Ratio Lower Upper
41 100
39 34.6 44.6 66.8#
67 0.0 14.4 21.6#
52 0.0 9.3 13.9#



#50
Toluene-d8
Concen: 31.487 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

Tgt Ion: 98 Resp: 418685
Ion Ratio Lower Upper
98 100
100 67.8 51.7 77.5

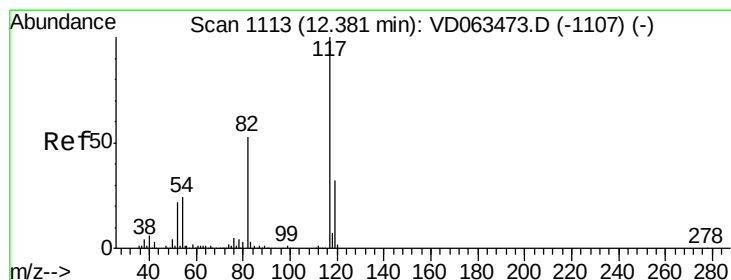
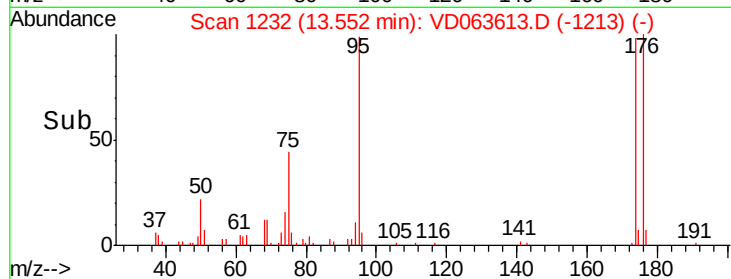
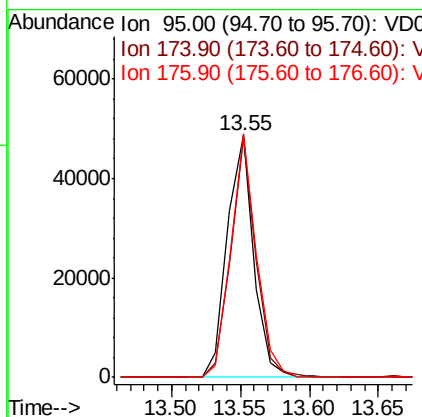
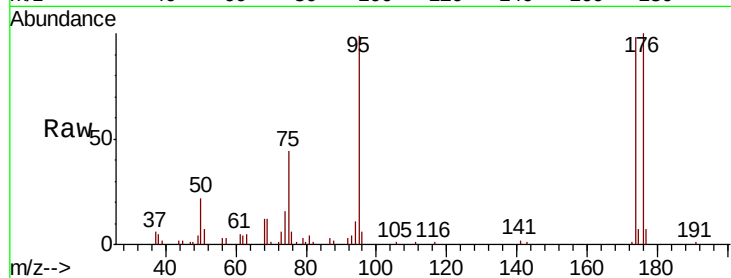




#62
4-Bromofluorobenzene
Concen: 10.719 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

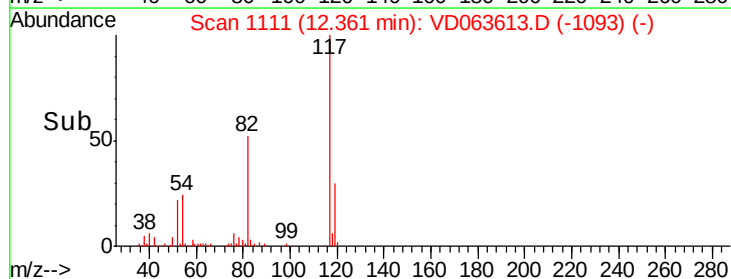
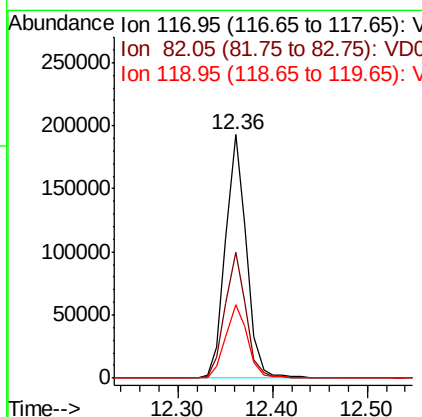
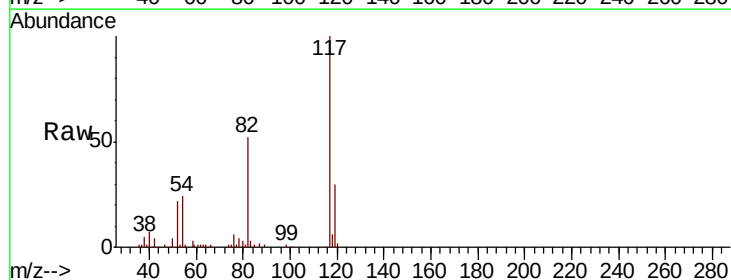
Instrument :
MSVOA_D
ClientSampleId :
TP-4

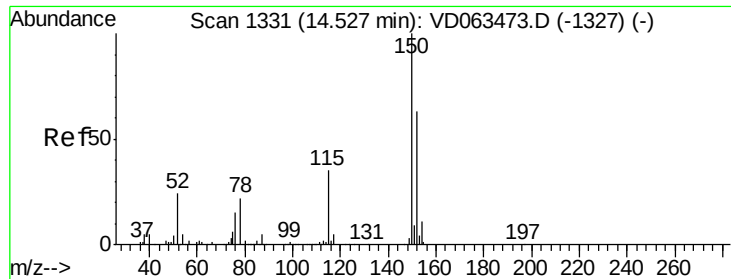
Tgt Ion: 95 Resp: 64604
Ion Ratio Lower Upper
95 100
174 98.9 0.0 155.4
176 100.6 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063613.D
Acq: 15 Aug 2019 18:43

Tgt Ion: 117 Resp: 295391
Ion Ratio Lower Upper
117 100
82 51.9 42.0 63.0
119 30.2 25.4 38.0

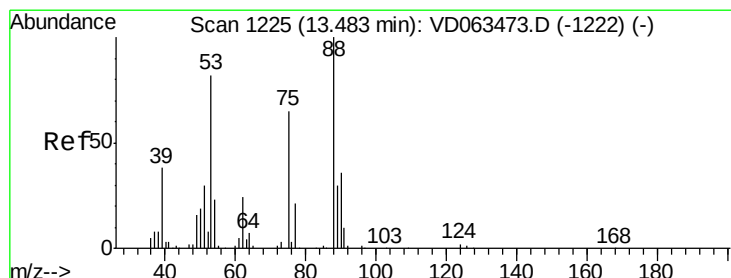
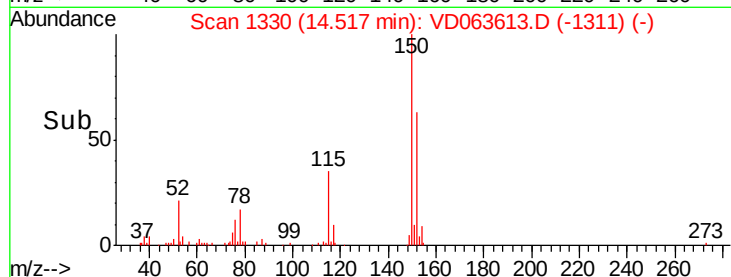
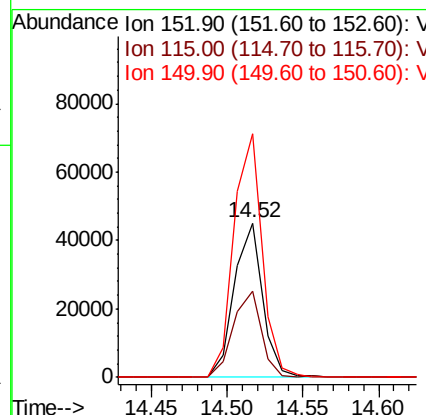
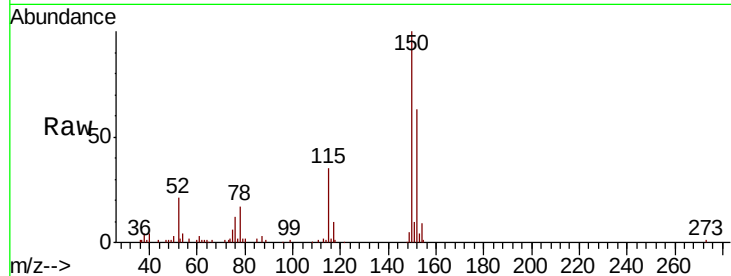




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VD063613.D
 Acq: 15 Aug 2019 18:43

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4

Tgt Ion:152 Resp: 58367
 Ion Ratio Lower Upper
 152 100
 115 55.7 30.9 92.7
 150 157.9 0.0 318.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 166.118 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD063613.D
 Acq: 15 Aug 2019 18:43

Tgt Ion: 75 Resp: 29908
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.0 151.4#
 89 0.0 37.0 55.6#

