

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063186.D
 Acq On : 22 Jul 2019 19:29
 Operator : VA/AP
 Sample : K3621-05RE
 Misc : 6.32g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-071919

Quant Time: Jul 23 07:51:34 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	7.05	168	838422	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1111299	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	787445	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	278216	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	609215	58.33	ug/l	0.01
Spiked Amount			Recovery	=	116.66%	
35) Dibromofluoromethane	6.93	113	677082	61.17	ug/l	0.02
Spiked Amount			Recovery	=	122.34%	
50) Toluene-d8	10.42	98	1279780	53.83	ug/l	0.02
Spiked Amount			Recovery	=	107.66%	
62) 4-Bromofluorobenzene	13.56	95	460502	41.87	ug/l	0.01
Spiked Amount			Recovery	=	83.74%	

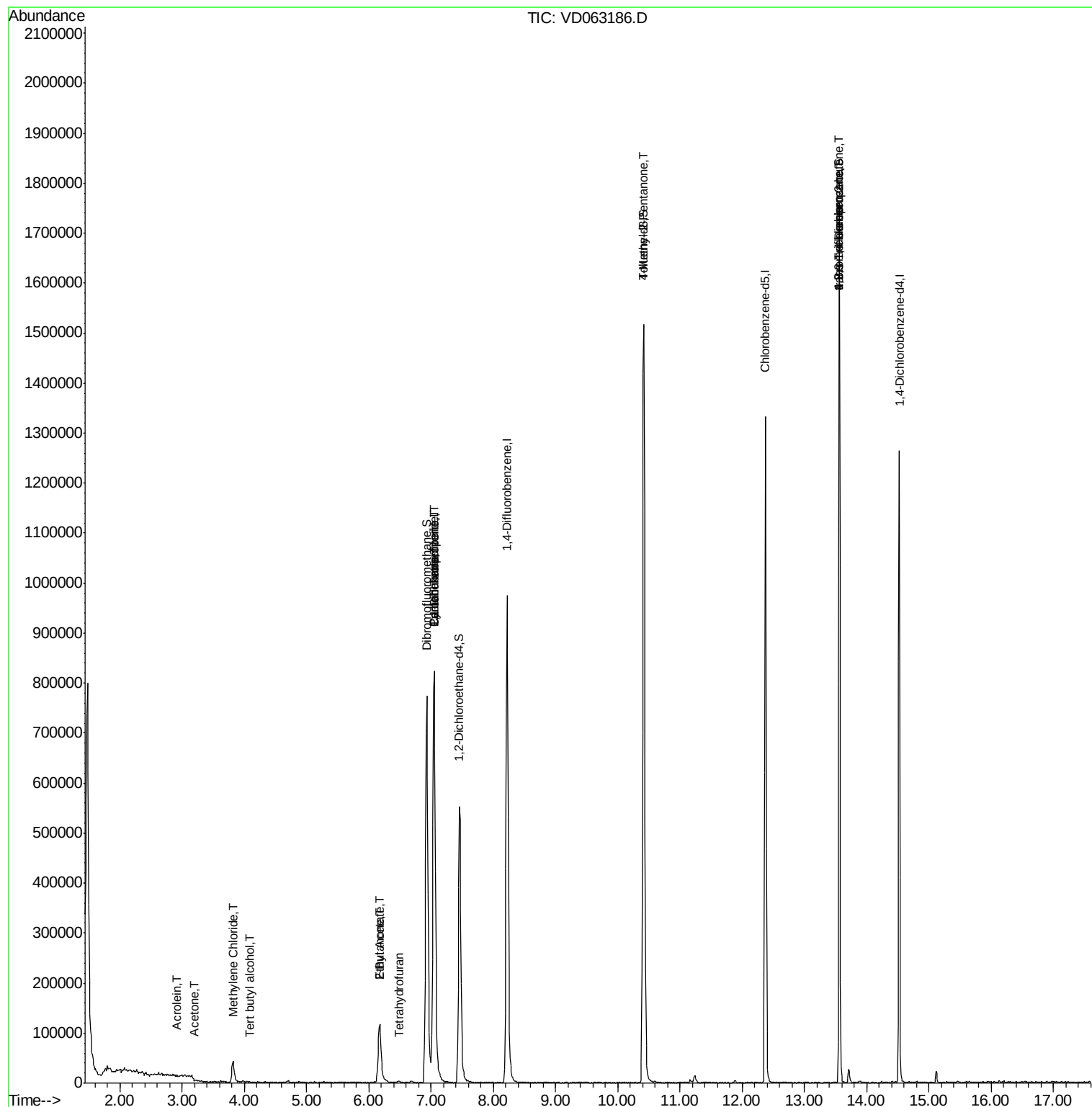
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	412	Below Cal	#	48
5) Bromomethane	2.14	94	1105	Below Cal	#	13
11) Tert butyl alcohol	4.08	59	720	1.195	ug/l #	77
13) Acrolein	2.92	56	432	2.375	ug/l #	70
16) Acetone	3.20	43	3237	1.283	ug/l #	62
18) Methyl Acetate	3.66	43	1959	Below Cal	#	63
20) Methylene Chloride	3.82	84	26405	2.771	ug/l #	95
25) 2-Butanone	6.18	43	9442	3.920	ug/l #	61
29) Tetrahydrofuran	6.47	42	1098	1.006	ug/l #	75
31) Cyclohexane	7.04	56	17485	1.759	ug/l #	3
36) 1,1-Dichloropropene	7.05	75	64098	5.128	ug/l #	46
37) Ethyl Acetate	6.18	43	9442	1.765	ug/l #	14
38) Carbon Tetrachloride	7.04	117	81198	4.275	ug/l #	14
51) 4-Methyl-2-Pentanone	10.42	43	8472	1.666	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	147784	34.531	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.56	75	205268	182.133	ug/l #	1

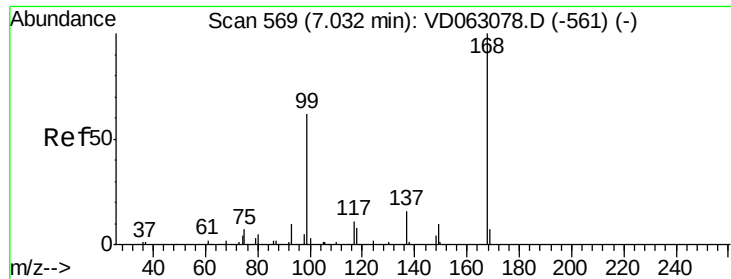
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

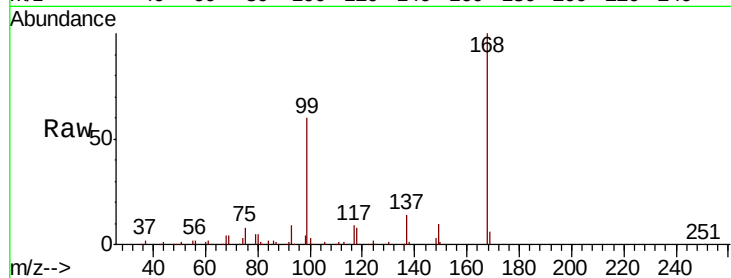
OK-02-071919

Tot Ion:168 Resp: 838422

Ion Ratio Lower Upper

168 100

99 59.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

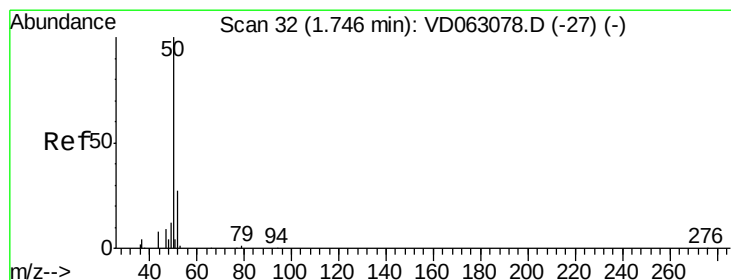
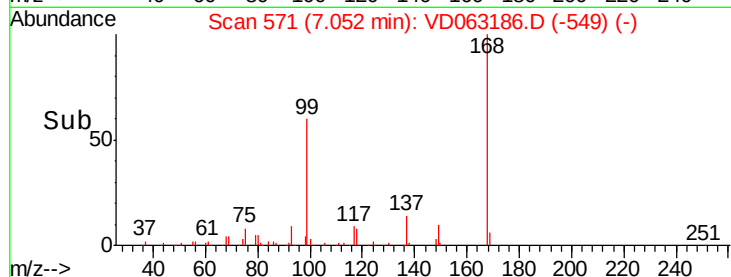
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD063186.D

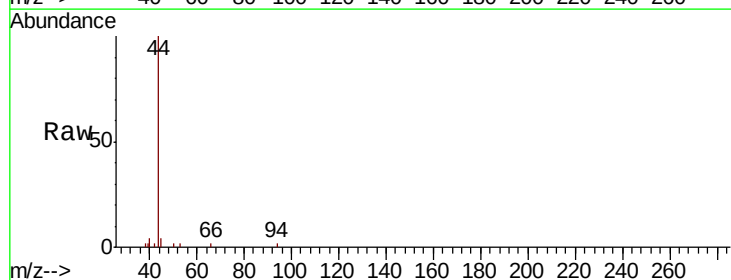
Acq: 22 Jul 2019 19:29

Tgt Ion: 50 Resp: 412

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

600

500

400

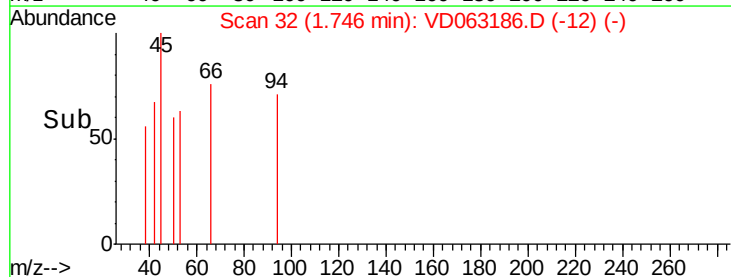
300

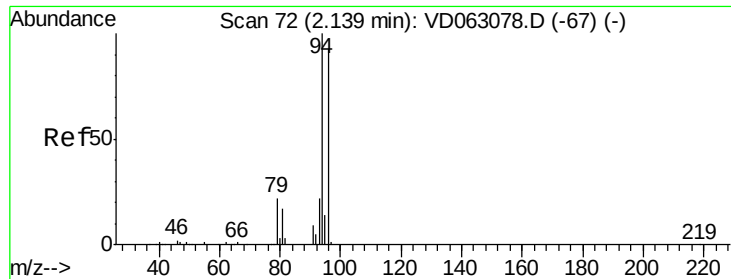
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 72

Delta R.T. 0.00 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

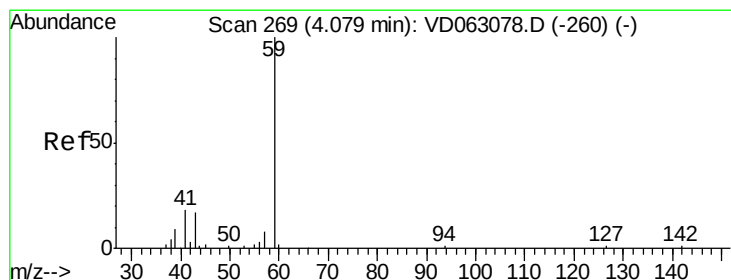
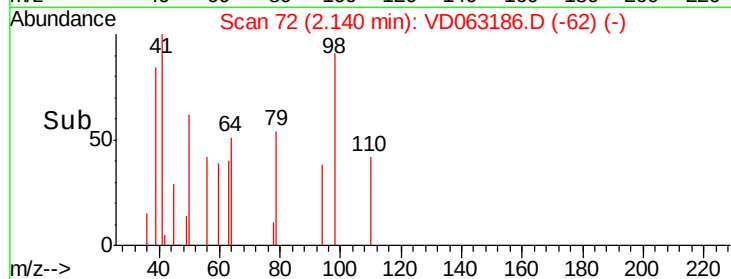
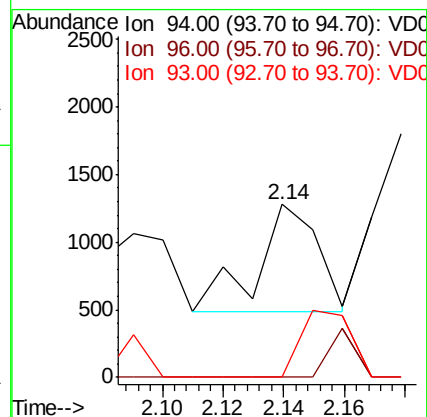
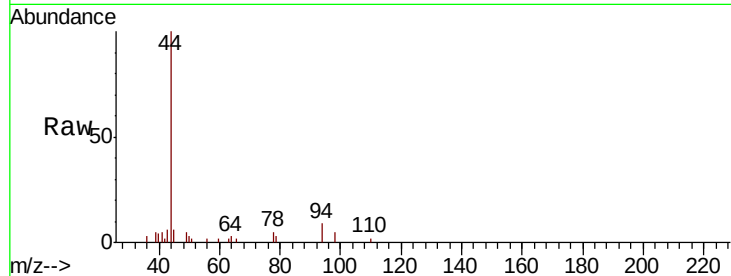
Tot Ion: 94 Resp: 1105

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 1.195 ug/l

RT: 4.08 min Scan# 269

Delta R.T. 0.00 min

Lab File: VD063186.D

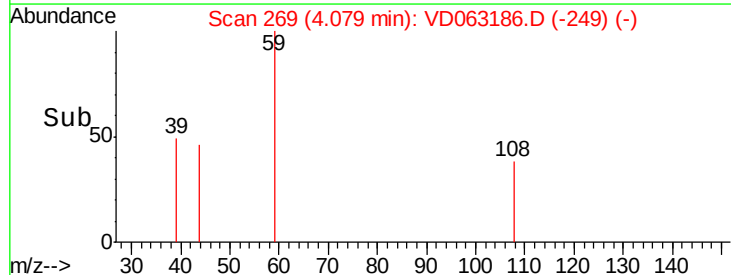
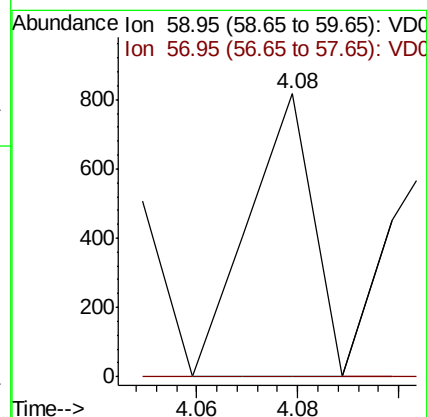
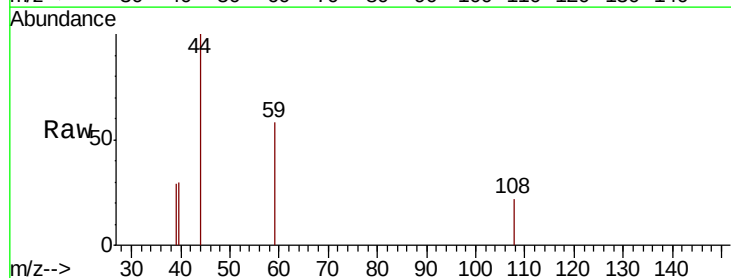
Acq: 22 Jul 2019 19:29

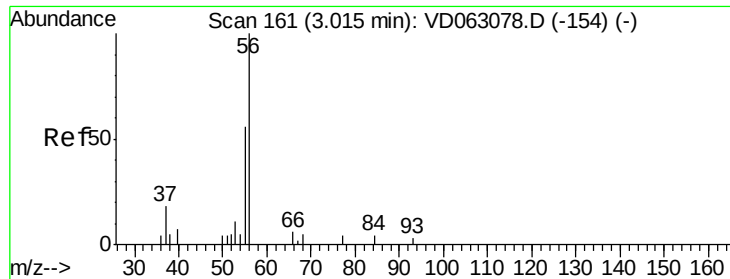
Tgt Ion: 59 Resp: 720

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#

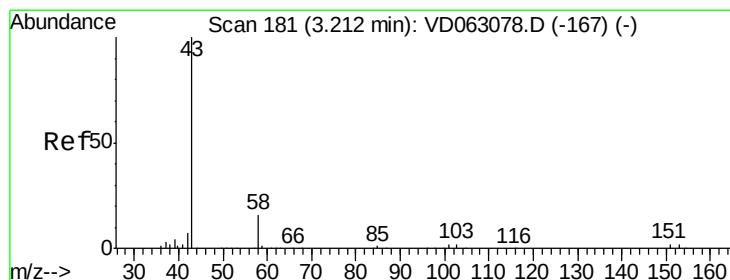
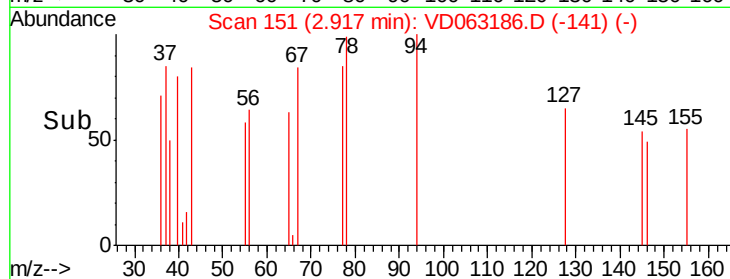
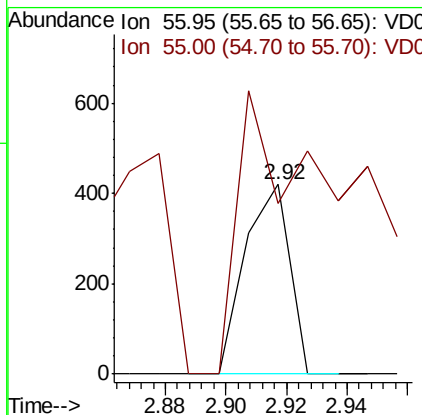
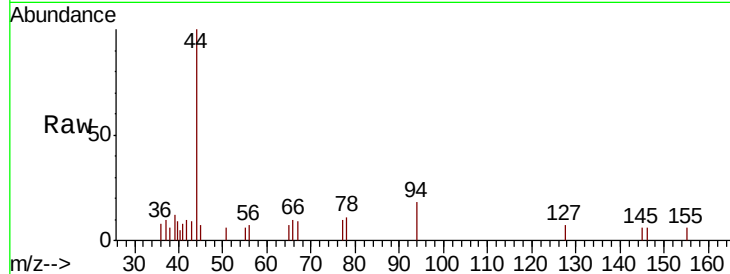




#13
Acrolein
Concen: 2.375 ug/l
RT: 2.92 min Scan# 151
Delta R.T. -0.10 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

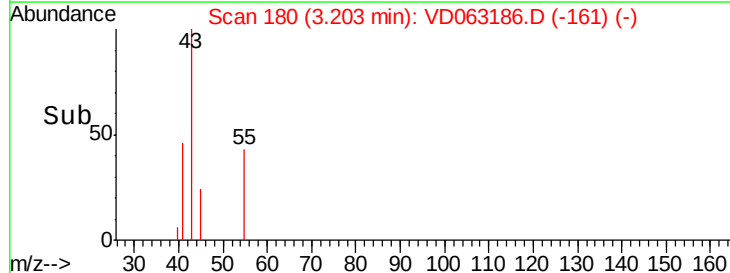
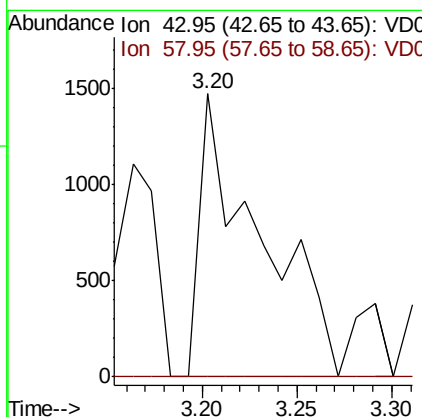
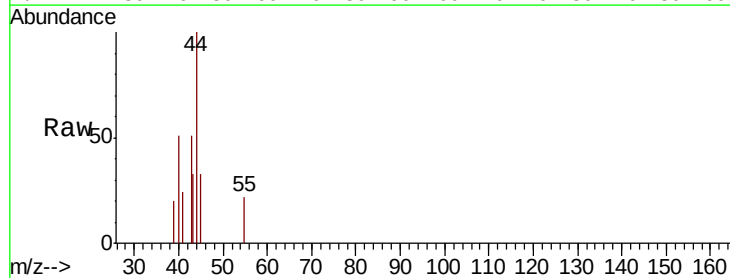
Instrument :
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OK-02-071919

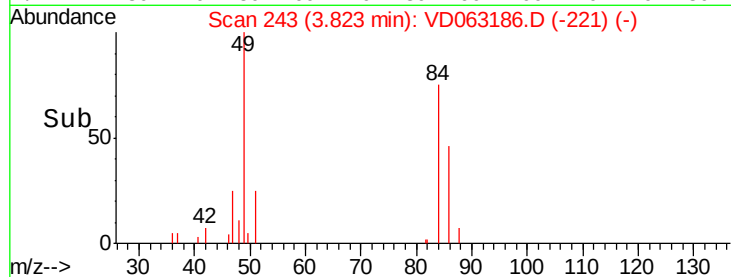
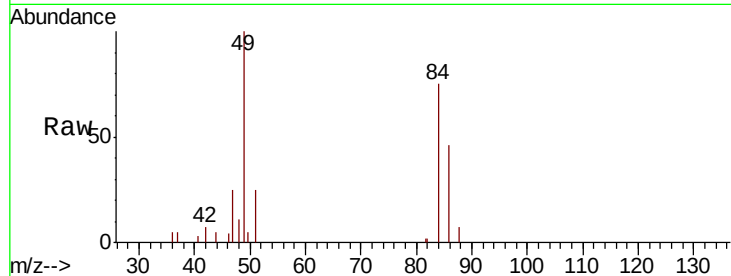
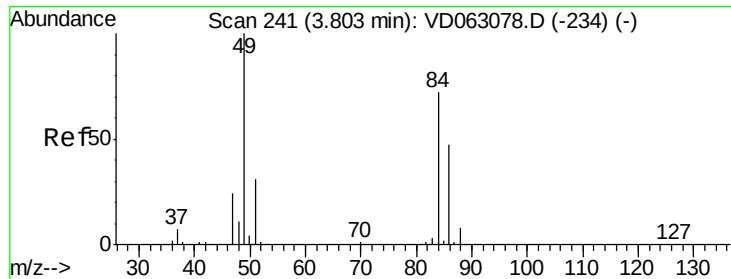
Tot Ion: 56 Resp: 432
Ion Ratio Lower Upper
56 100
55 89.8 53.0 79.4#



#16
Acetone
Concen: 1.283 ug/l
RT: 3.20 min Scan# 180
Delta R.T. -0.01 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

Tgt Ion: 43 Resp: 3237
Ion Ratio Lower Upper
43 100
58 0.0 13.0 19.4#

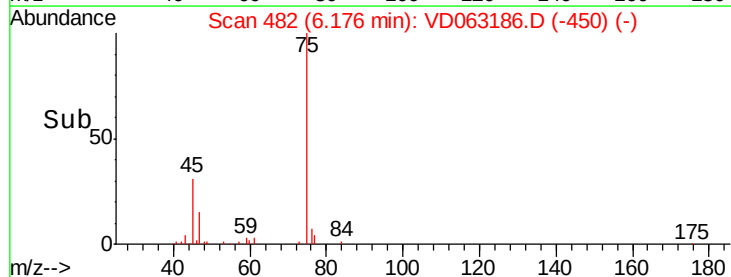
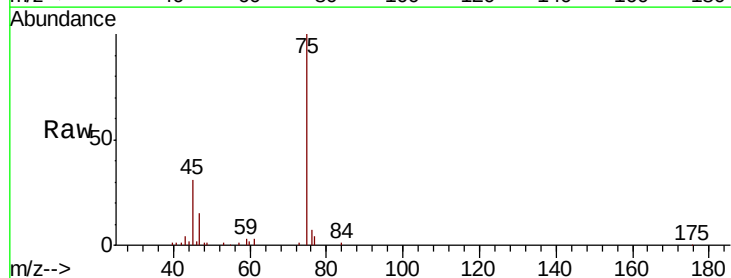
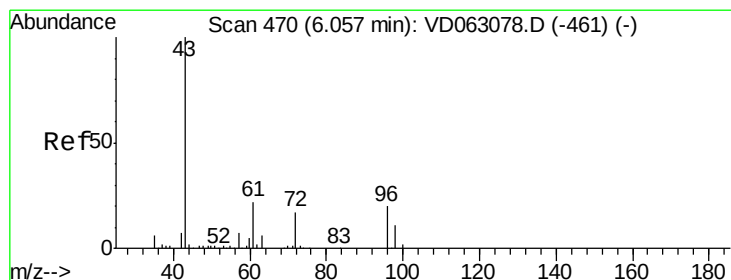
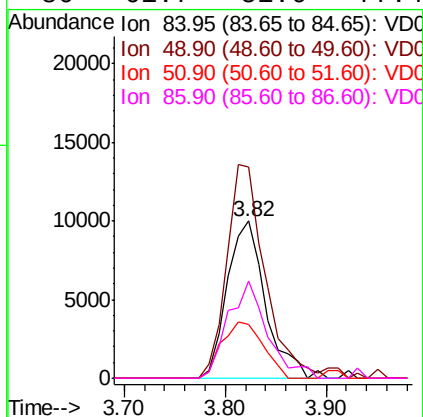




#20
Methylene Chloride
Concen: 2.771 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

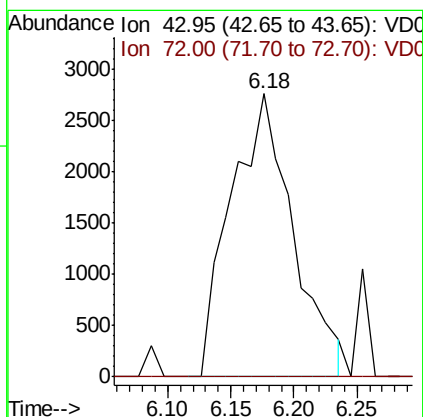
Instrument :
MSVOA_D
ClientSampleId :
OK-02-071919

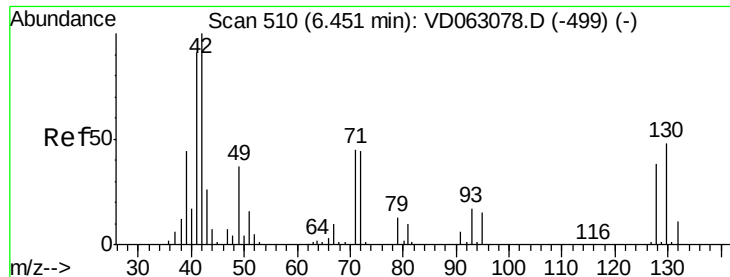
Tot Ion	84	Resp	26405
Ion Ratio	Lower	Upper	
84	100		
49	134.1	110.5	165.7
51	34.1	34.6	51.8#
86	61.7	51.6	77.4



#25
2-Butanone
Concen: 3.920 ug/l
RT: 6.18 min Scan# 482
Delta R.T. 0.12 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

Tgt Ion	43	Resp	9442
Ion Ratio	Lower	Upper	
43	100		
72	0.0	13.4	20.0#





#29

Tetrahydrofuran

Concen: 1.006 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

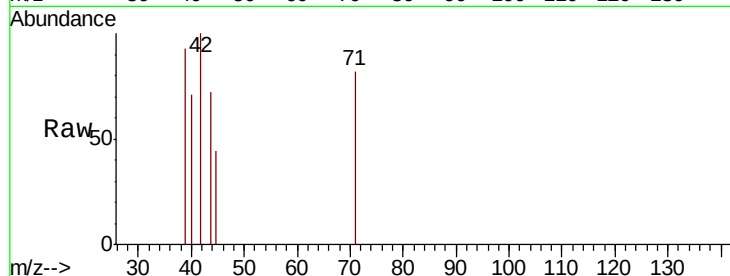
Tot Ion: 42 Resp: 1098

Ion Ratio Lower Upper

42 100

72 22.4 33.7 50.5#

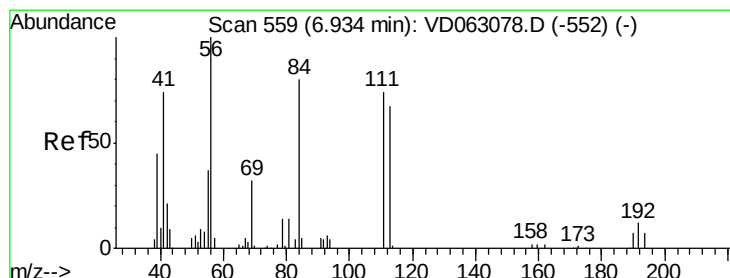
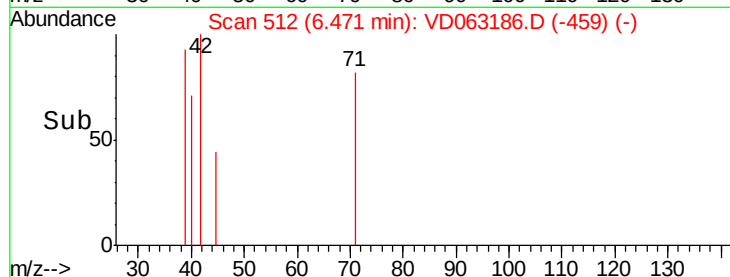
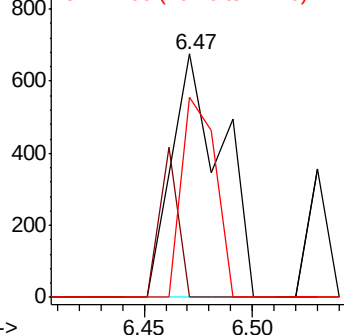
71 54.7 34.2 51.2#



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: 1.759 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

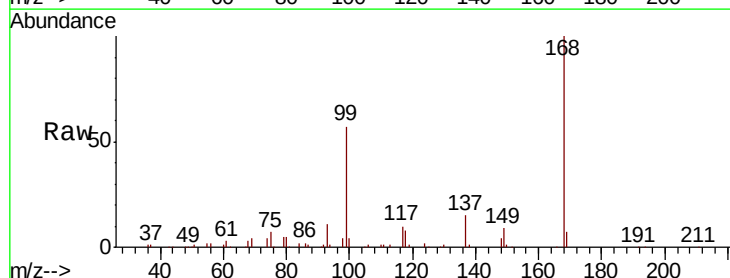
Tgt Ion: 56 Resp: 17485

Ion Ratio Lower Upper

56 100

69 175.4 25.3 37.9#

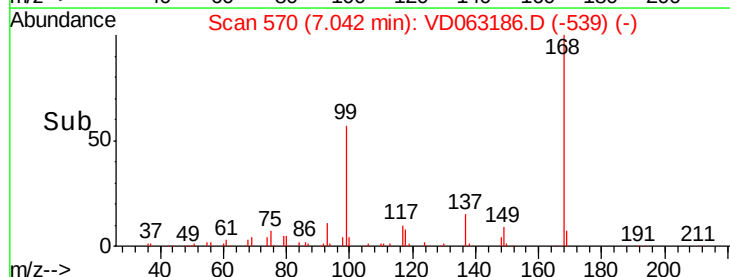
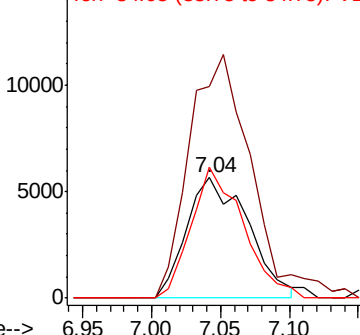
84 109.2 64.2 96.4#

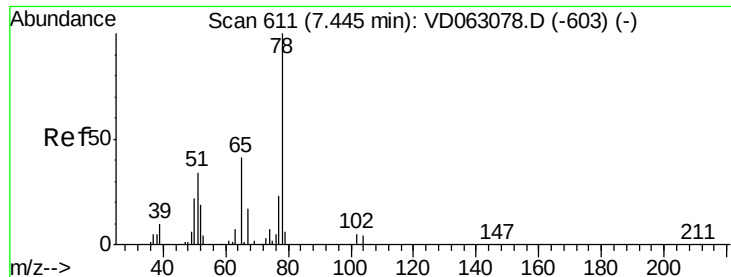


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

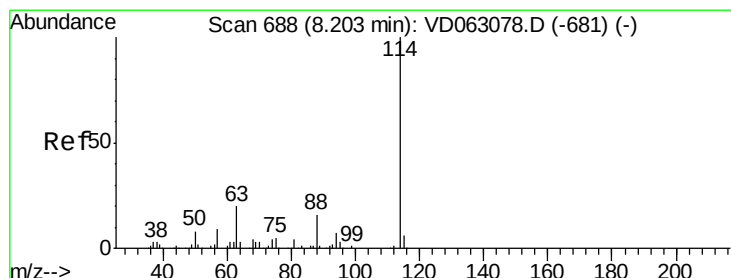
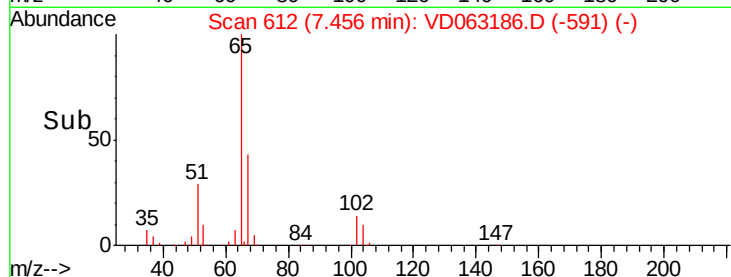
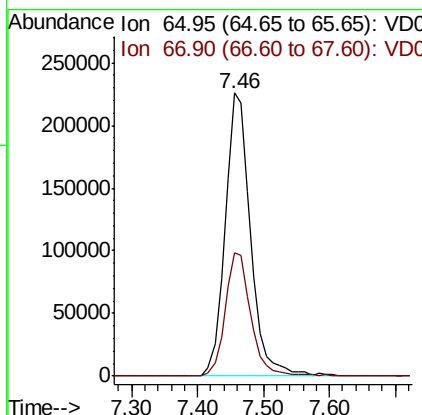
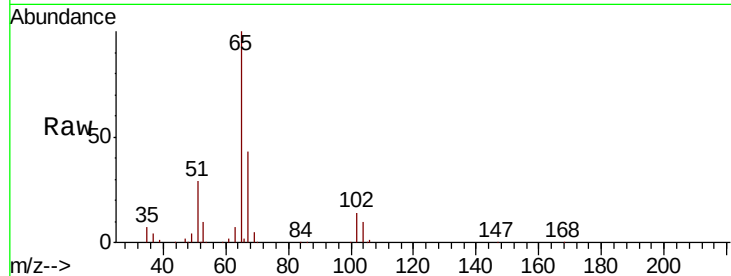




#33
 1,2-Dichloroethane-d4
 Concen: 58.331 ug/l
 RT: 7.46 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063186.D
 Acq: 22 Jul 2019 19:29

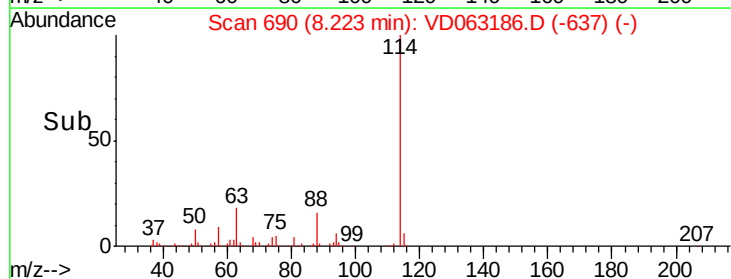
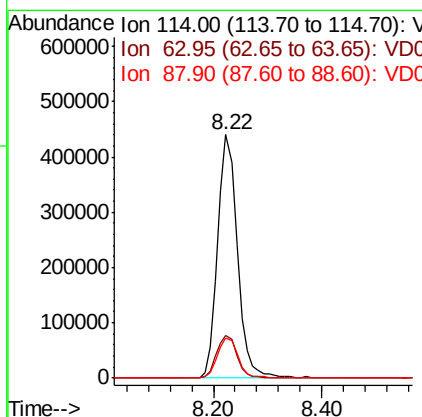
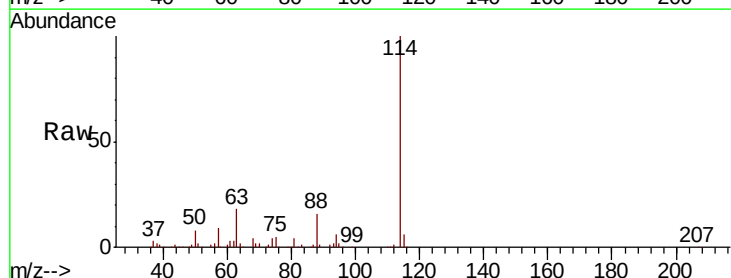
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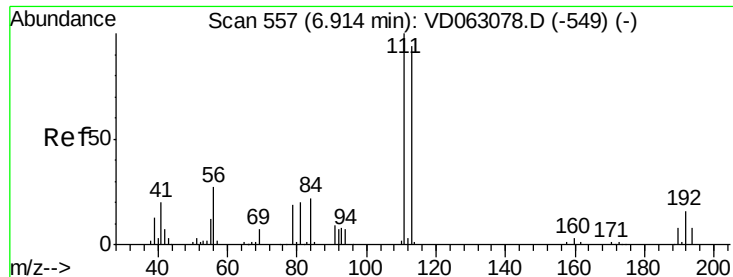
Tot Ion: 65 Resp: 609215
 Ion Ratio Lower Upper
 65 100
 67 43.4 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD063186.D
 Acq: 22 Jul 2019 19:29

Tgt Ion: 114 Resp: 1111299
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 40.6
 88 16.4 0.0 32.6

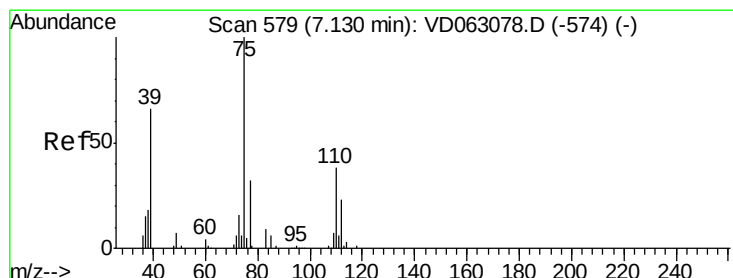
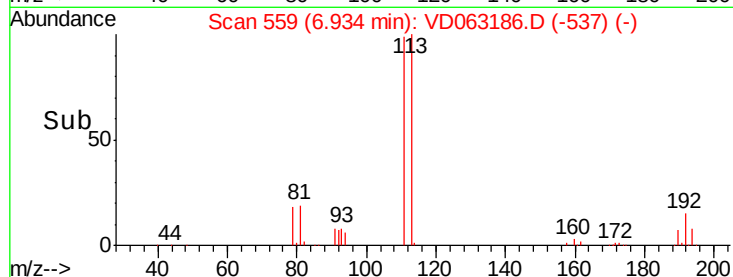
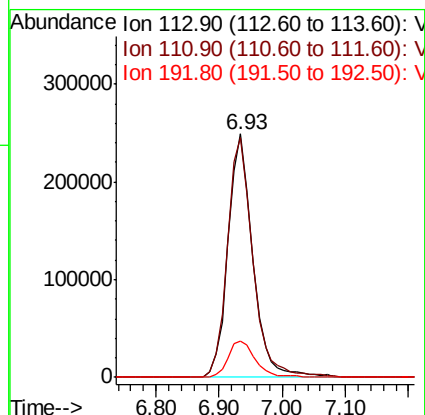
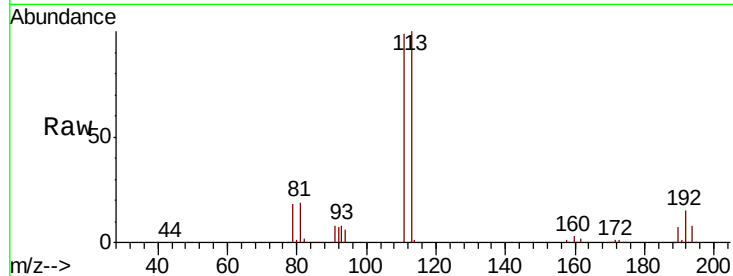




#35
 Dibromofluoromethane
 Concen: 61.170 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063186.D
 Acq: 22 Jul 2019 19:29

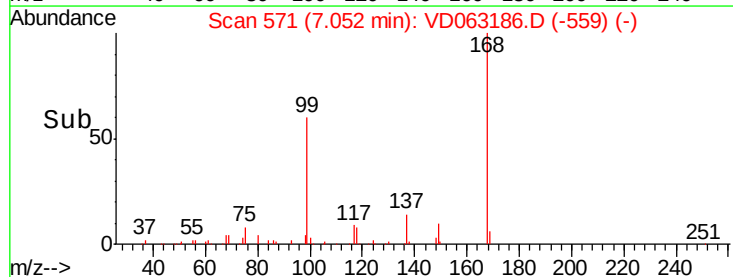
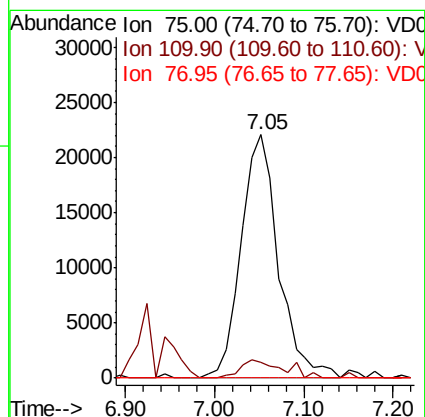
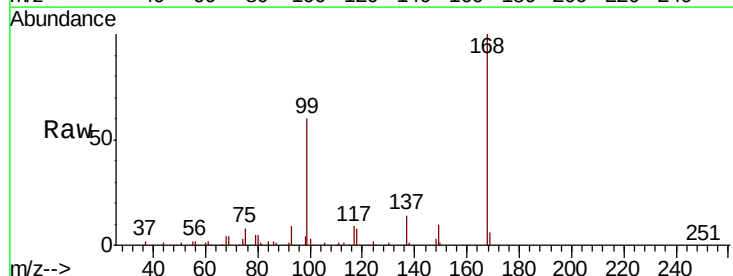
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 OK-02-071919

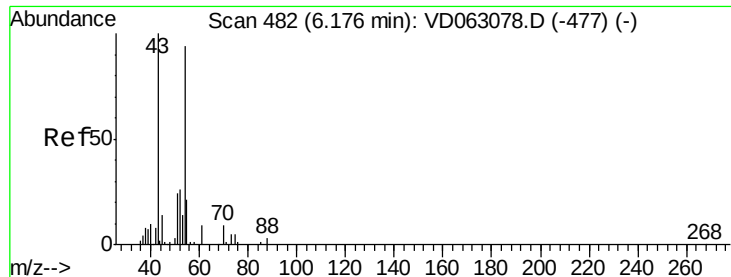
Tot Ion:113 Resp: 677082
 Ion Ratio Lower Upper
 113 100
 111 98.7 84.8 127.2
 192 14.8 13.4 20.0



#36
 1,1-Dichloropropene
 Concen: 5.128 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD063186.D
 Acq: 22 Jul 2019 19:29

Tgt Ion: 75 Resp: 64098
 Ion Ratio Lower Upper
 75 100
 110 6.4 18.9 56.5#
 77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 1.765 ug/l

RT: 6.18 min Scan# 482

Delta R.T. 0.00 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

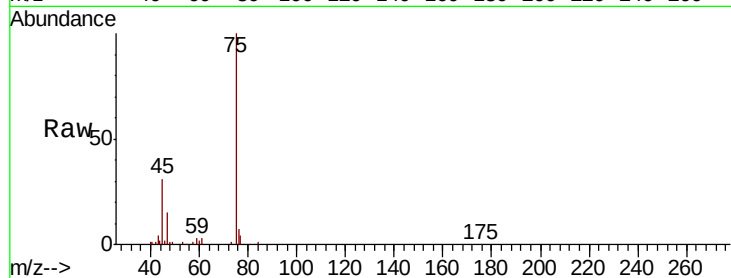
Tot Ion: 43 Resp: 9442

Ion Ratio Lower Upper

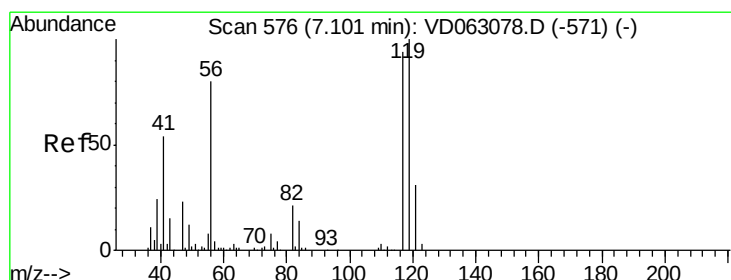
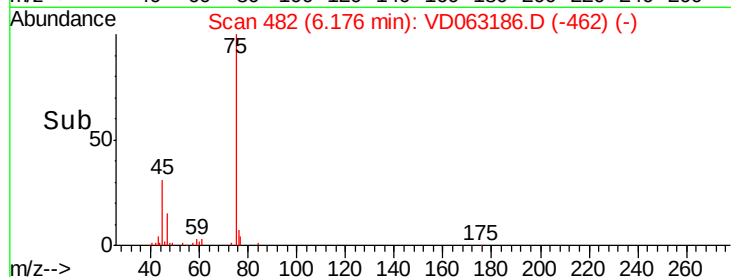
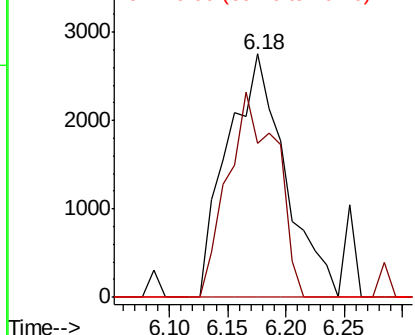
43 100

61 63.0 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: 4.275 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

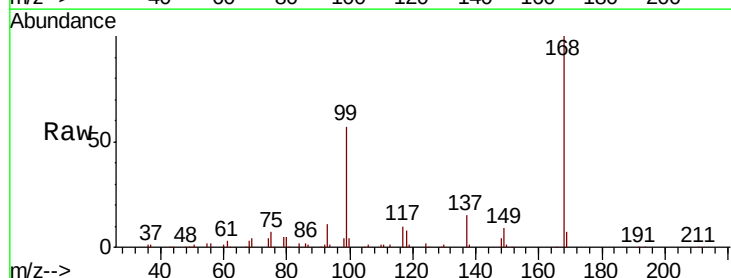
Tgt Ion: 117 Resp: 81198

Ion Ratio Lower Upper

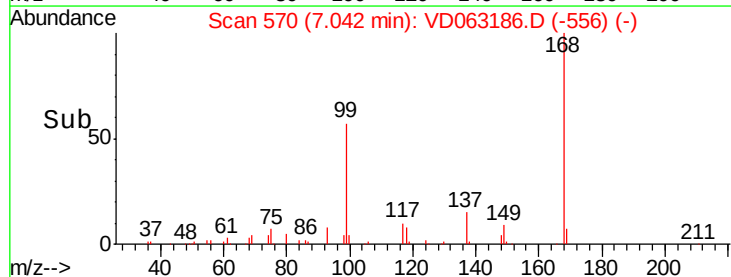
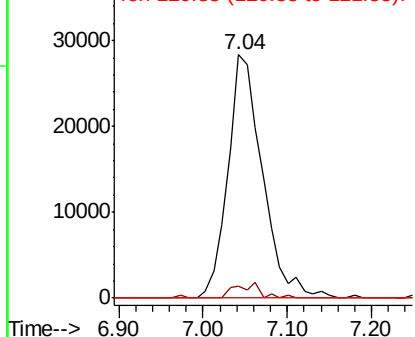
117 100

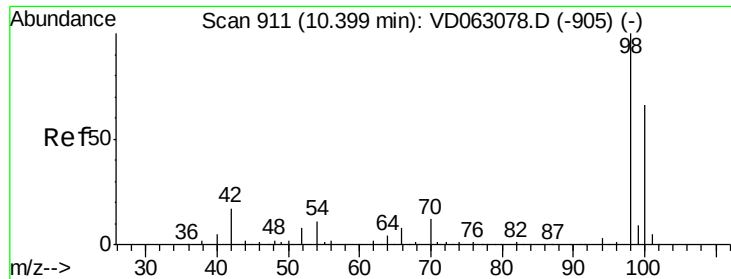
119 4.9 80.0 120.0#

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

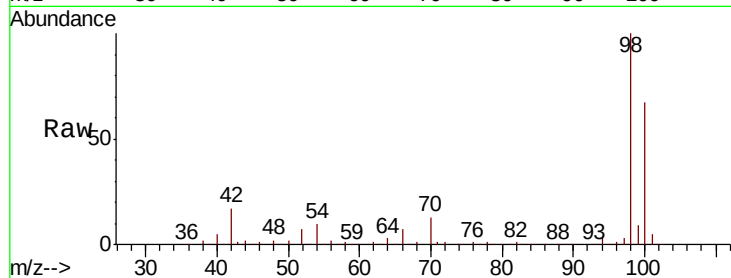




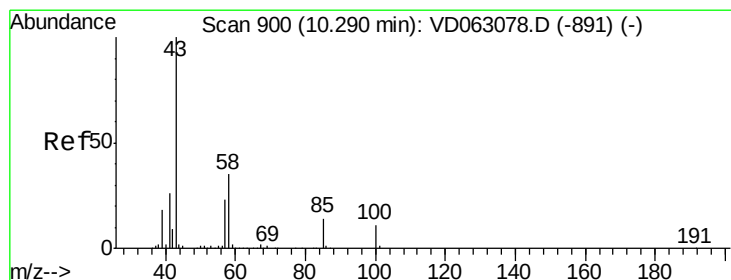
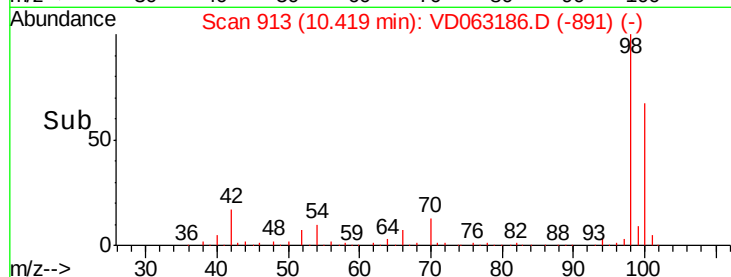
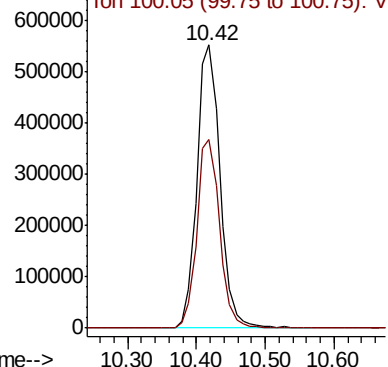
#50
Toluene-d8
Concen: 53.827 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
OK-02-071919

Tot Ion: 98 Resp: 1279780
Ion Ratio Lower Upper
98 100
100 66.7 53.5 80.3

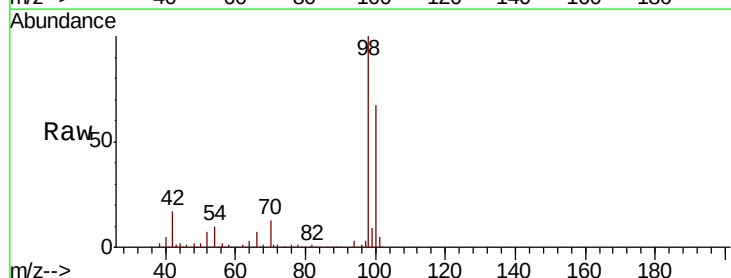


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

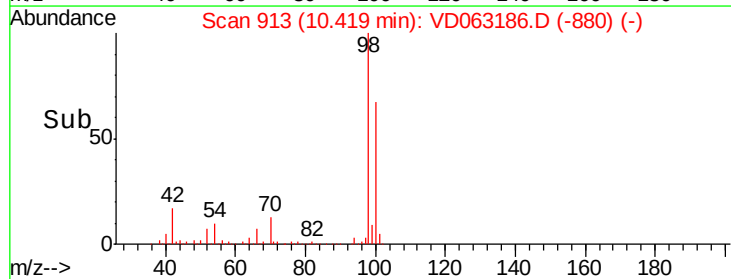
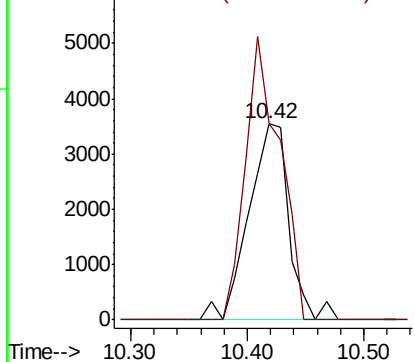


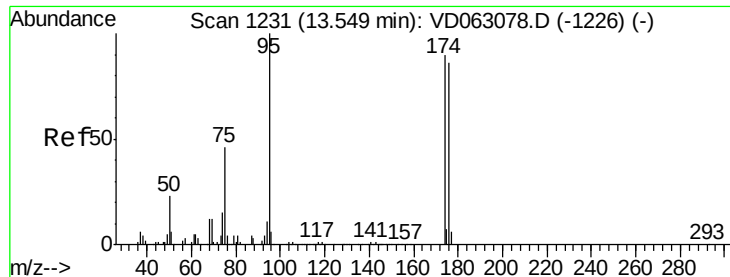
#51
4-Methyl-2-Pentanone
Concen: 1.666 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.13 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

Tgt Ion: 43 Resp: 8472
Ion Ratio Lower Upper
43 100
58 99.9 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

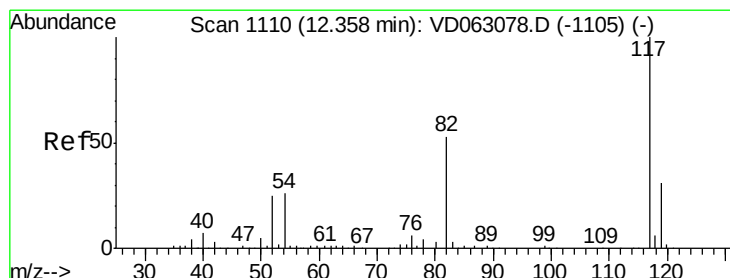
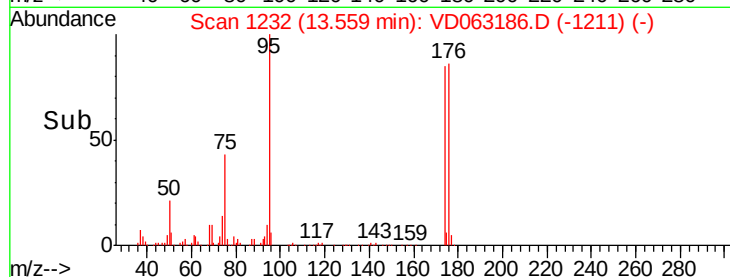
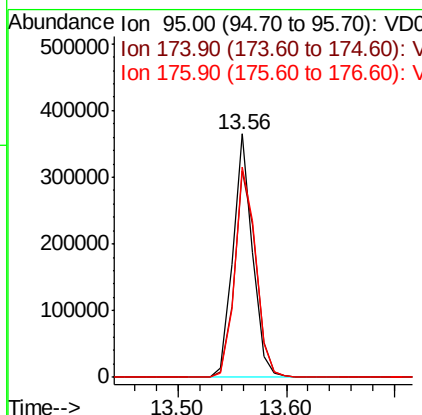
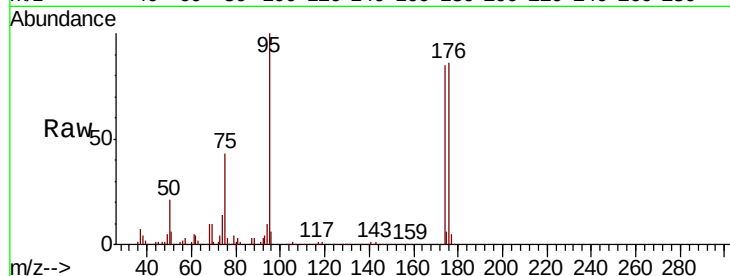




#62
4-Bromofluorobenzene
Concen: 41.865 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

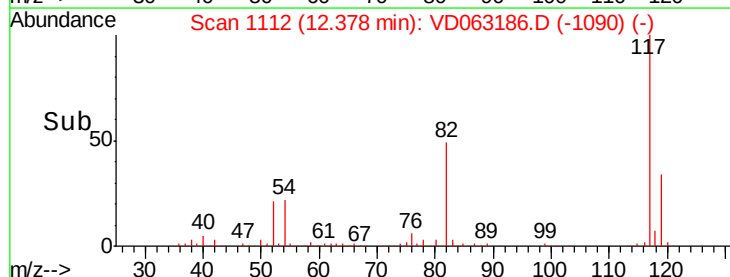
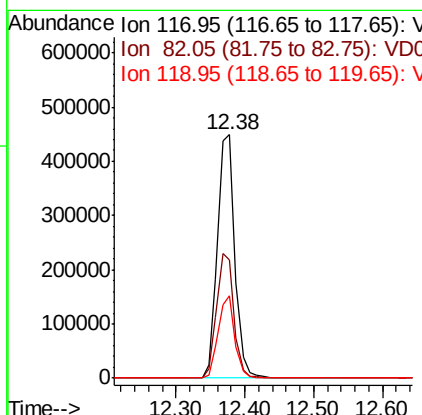
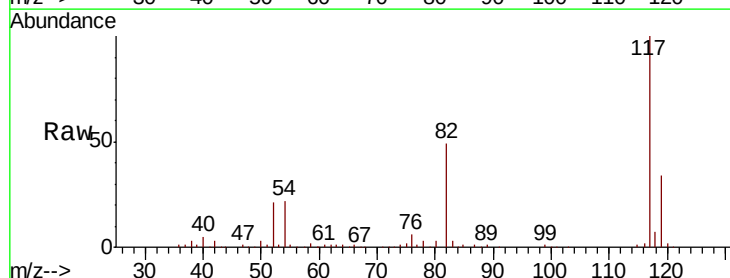
Instrument :
MSVOA_D
ClientSampleId :
OK-02-071919

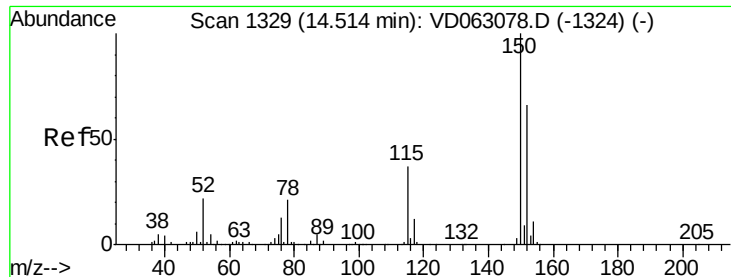
Tot Ion: 95 Resp: 460502
Ion Ratio Lower Upper
95 100
174 84.8 0.0 180.6
176 86.4 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD063186.D
Acq: 22 Jul 2019 19:29

Tgt Ion: 117 Resp: 787445
Ion Ratio Lower Upper
117 100
82 48.6 42.3 63.5
119 33.6 25.2 37.8

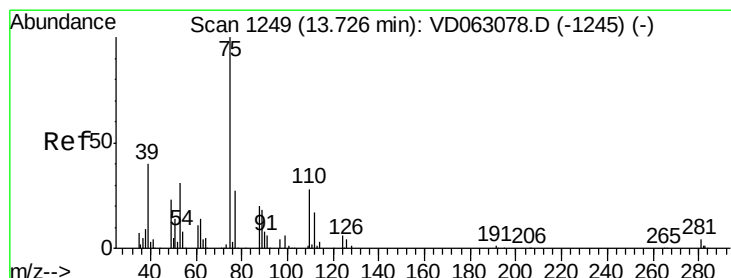
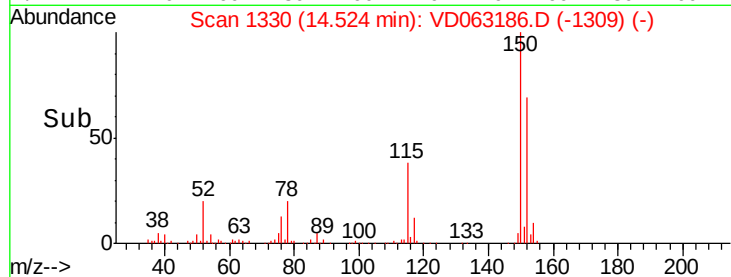
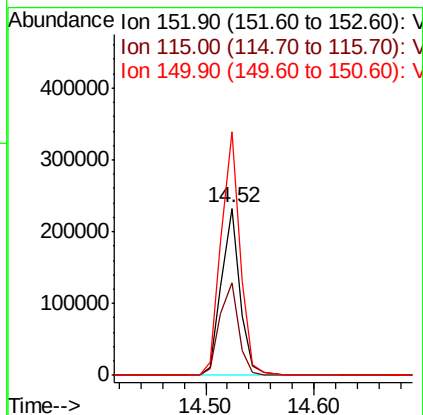
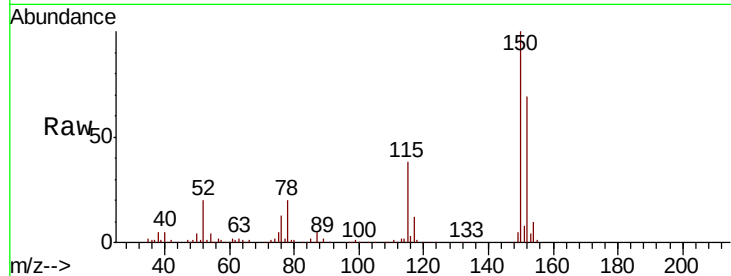




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VD063186.D
 Acq: 22 Jul 2019 19:29

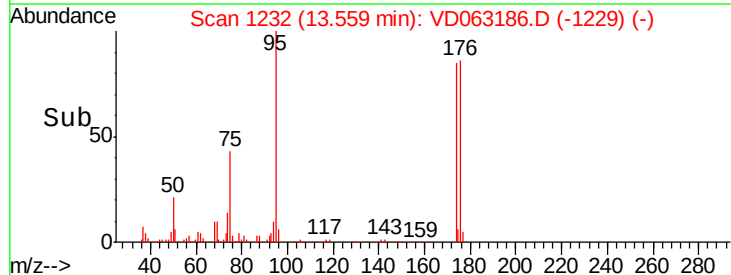
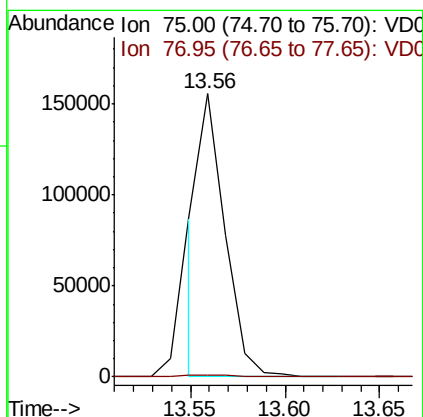
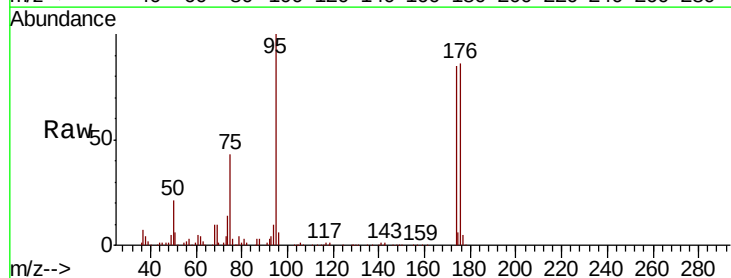
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-071919

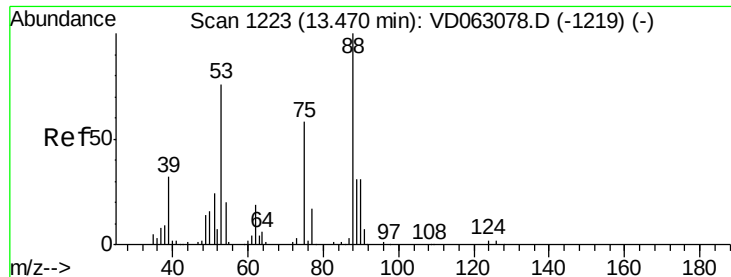
Tot Ion:152 Resp: 278216
 Ion Ratio Lower Upper
 152 100
 115 55.5 28.9 86.8
 150 146.0 0.0 313.8



#76
 1,2,3-Trichloropropane
 Concen: 34.531 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD063186.D
 Acq: 22 Jul 2019 19:29

Tgt Ion: 75 Resp: 147784
 Ion Ratio Lower Upper
 75 100
 77 0.7 16.3 48.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 182.133 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063186.D

Acq: 22 Jul 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

Tot Ion: 75 Resp: 205268

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

