

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080819\
 Data File : VD063468.D
 Acq On : 9 Aug 2019 7:12
 Operator : JC/SY
 Sample : K4245-02
 Misc : 5.92g/5ml/MSVOA D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-25

Quant Time: Aug 09 08:32:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	181	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-8.21
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-12.36
72) 1,4-Dichlorobenzene-d4	14.35	152	383	50.00	ug/l	-0.17

System Monitoring Compounds

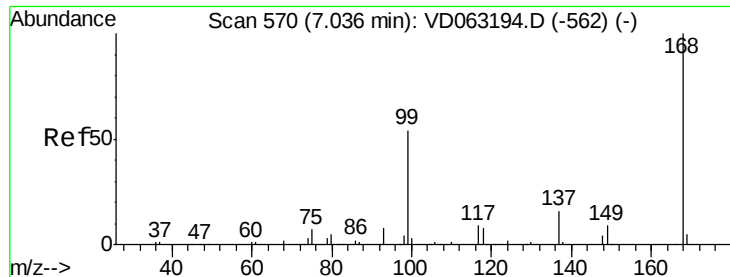
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
3) Chloromethane	1.61	50	229	133.219	ug/l #	46
4) Vinyl Chloride	1.70	62	194	109.018	ug/l #	45
5) Bromomethane	2.17	94	218	242.900	ug/l #	1
6) Chloroethane	2.16	64	184	223.955	ug/l #	47
10) Methyl Iodide	3.37	142	178	64.432	ug/l #	27
16) Acetone	3.15	43	237	605.660	ug/l #	62
18) Methyl Acetate	3.46	43	206	274.069	ug/l #	60
23) Vinyl Acetate	5.04	43	293	106.676	ug/l #	82
25) 2-Butanone	6.04	43	213	542.383	ug/l #	56
28) Bromochloromethane	6.51	49	218	191.707	ug/l #	2
29) Tetrahydrofuran	6.15	42	212	1140.222	ug/l #	33
74) N-amyl acetate	13.23	43	230	36.193	ug/l #	53
81) trans-1,4-Dichloro-2-buten	13.33	75	177	138.561	ug/l #	3
91) 1,2-Dichlorobenzene	14.96	146	203	19.213	ug/l #	25
93) 1,2,4-Trichlorobenzene	16.03	180	238	28.394	ug/l #	11
95) Naphthalene	16.15	128	190	16.038	ug/l #	70

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

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Misc : 5.92a/5ml/MSVOA D/SOIL
ALS Vial : 44 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.02 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampleId :

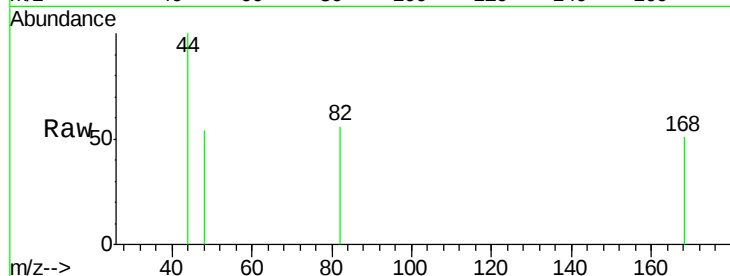
VOC-25

Tot Ion:168 Resp: 181

Ion Ratio Lower Upper

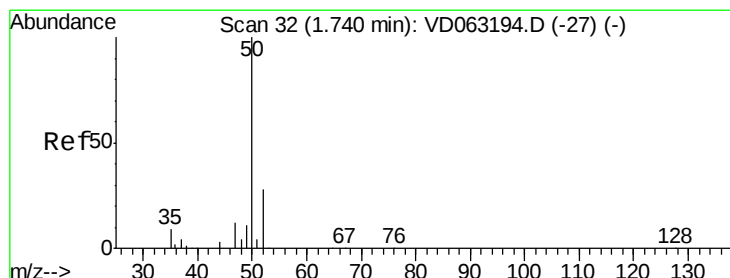
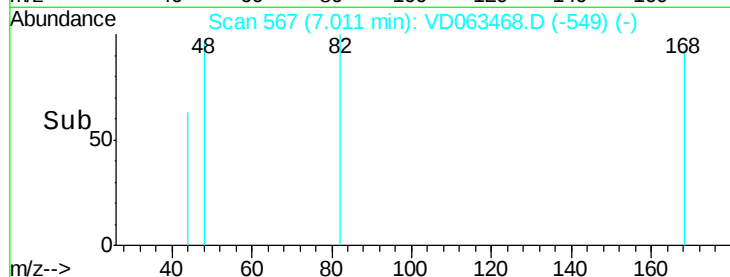
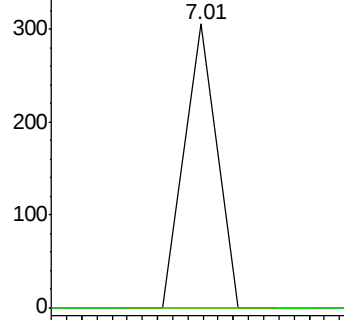
168 100

99 0.0 43.7 65.5#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 133.219 ug/l

RT: 1.61 min Scan# 18

Delta R.T. -0.13 min

Lab File: VD063468.D

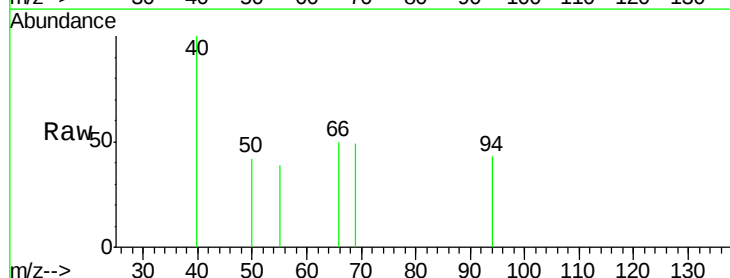
Acq: 9 Aug 2019 7:12

Tgt Ion: 50 Resp: 229

Ion Ratio Lower Upper

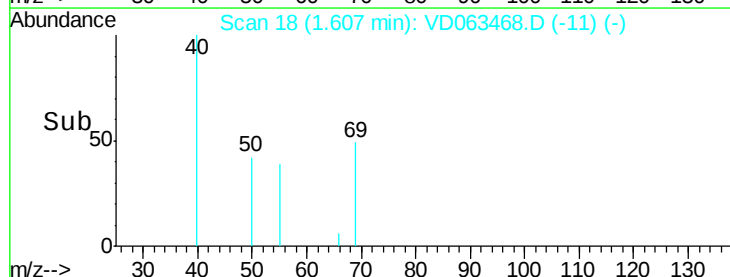
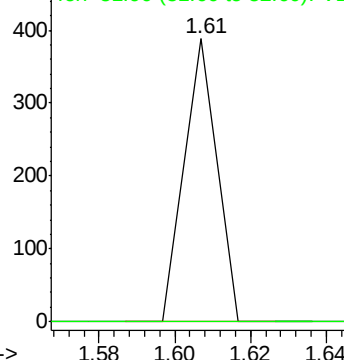
50 100

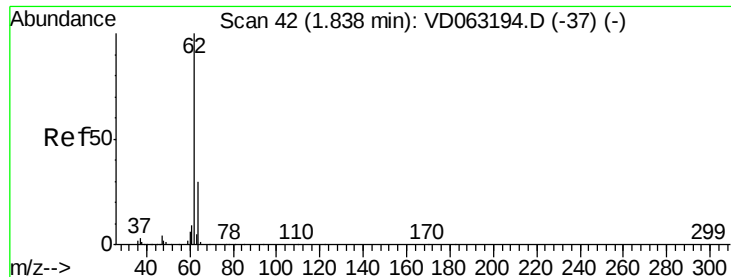
52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 109.018 ug/l

RT: 1.70 min Scan# 27

Delta R.T. -0.14 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampleId :

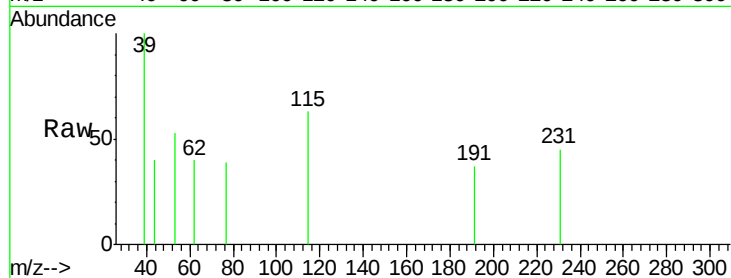
VOC-25

Tot Ion: 62 Resp: 194

Ion Ratio Lower Upper

62 100

64 0.0 24.1 36.1#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.70

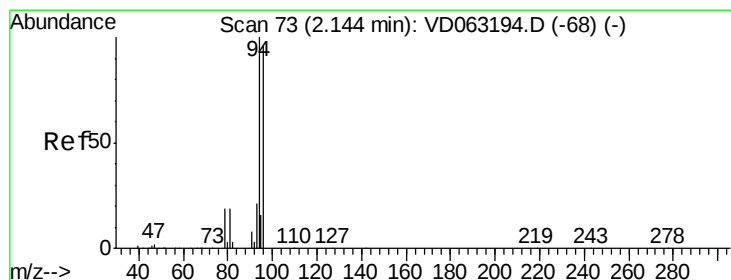
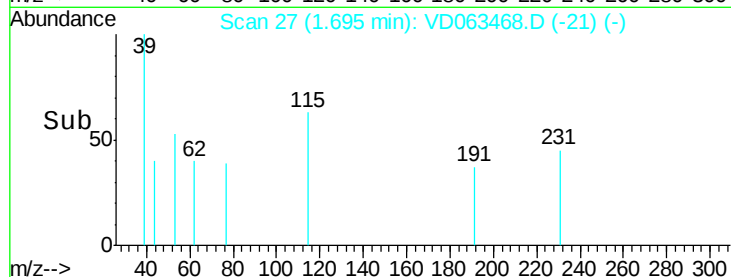
300

200

100

0

Time--> 1.66 1.68 1.70 1.72



#5

Bromomethane

Concen: 242.900 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

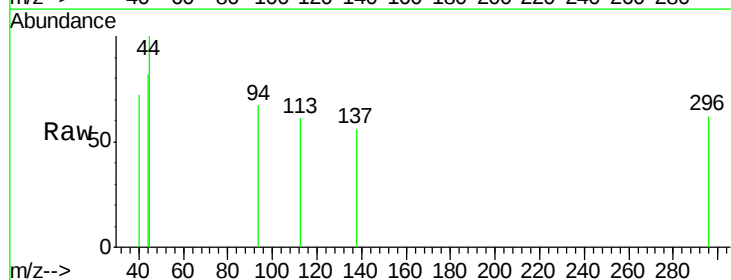
Tgt Ion: 94 Resp: 218

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 100.0 17.3 25.9#



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

500

400

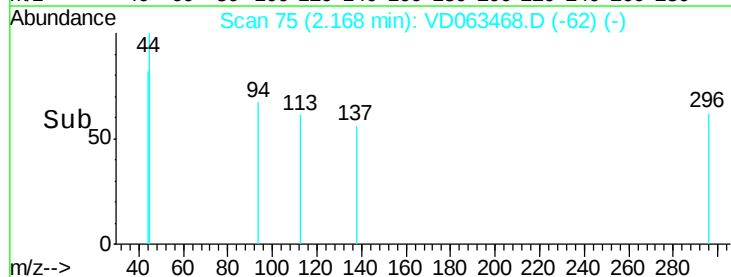
300

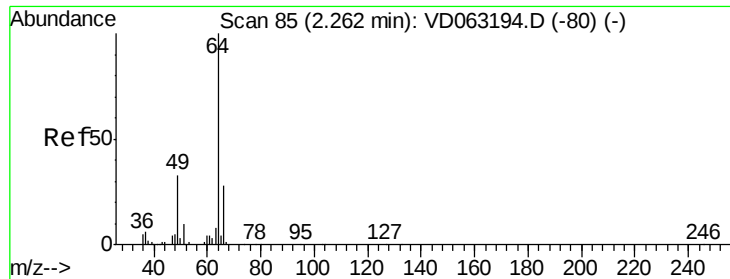
200

100

0

Time--> 2.14 2.16 2.18 2.20





#6

Chloroethane

Concen: 223.955 ug/l

RT: 2.16 min Scan# 74

Delta R.T. -0.10 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampleId :

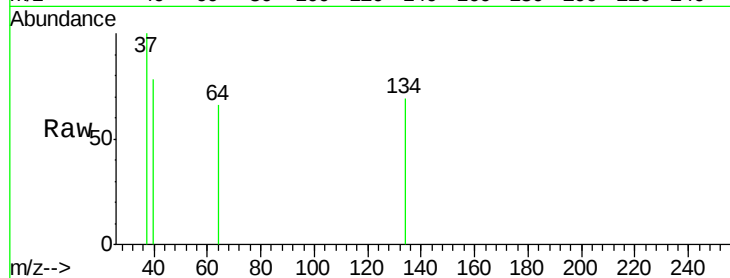
VOC-25

Tot Ion: 64 Resp: 184

Ion Ratio Lower Upper

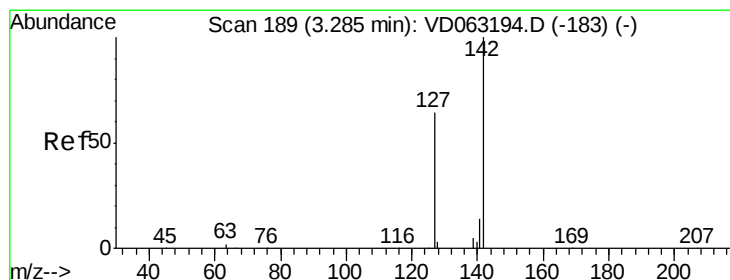
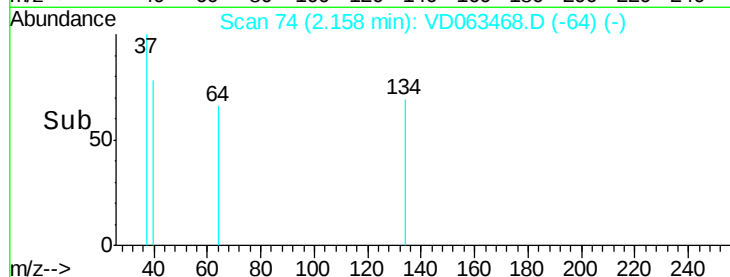
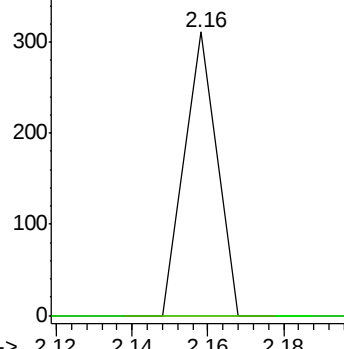
64 100

66 0.0 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#10

Methyl Iodide

Concen: 64.432 ug/l

RT: 3.37 min Scan# 197

Delta R.T. 0.08 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

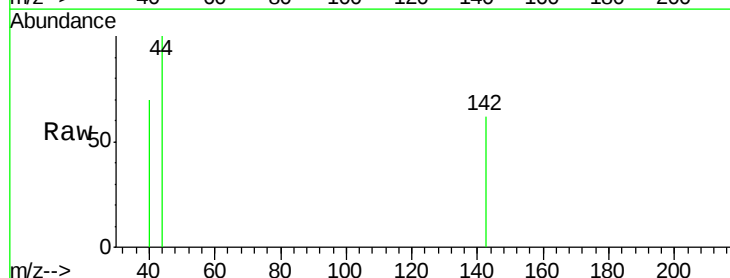
Tgt Ion: 142 Resp: 178

Ion Ratio Lower Upper

142 100

127 0.0 50.8 76.2#

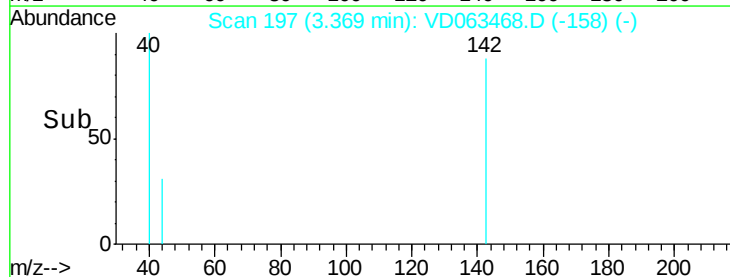
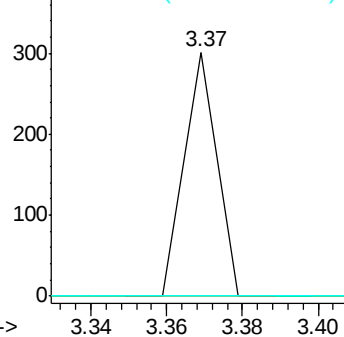
141 0.0 11.4 17.2#

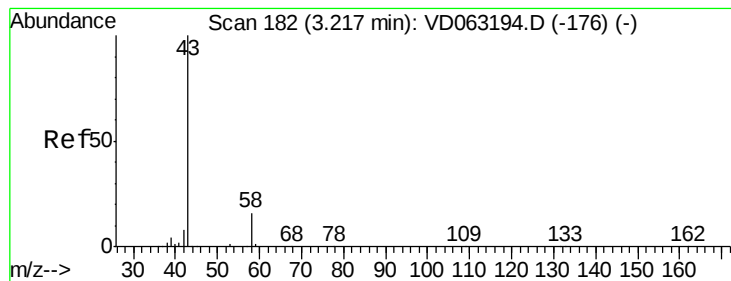


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 605.660 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.06 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampleId :

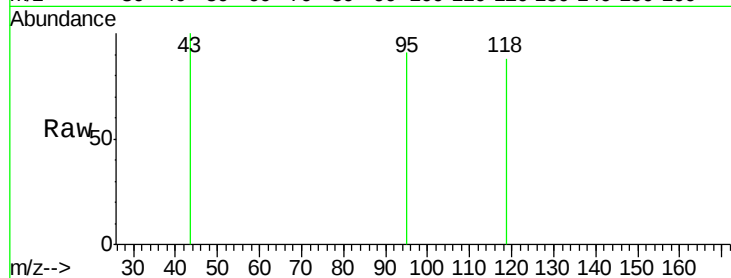
VOC-25

Tot Ion: 43 Resp: 237

Ion Ratio Lower Upper

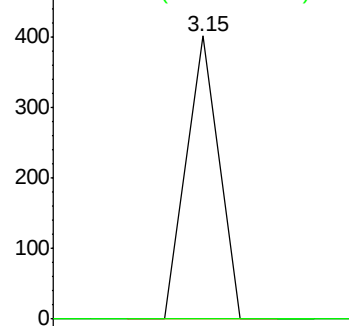
43 100

58 0.0 13.0 19.4#

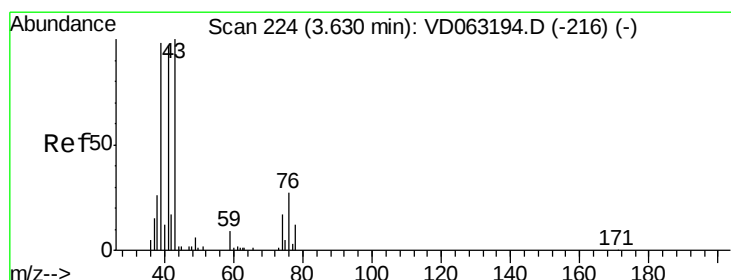
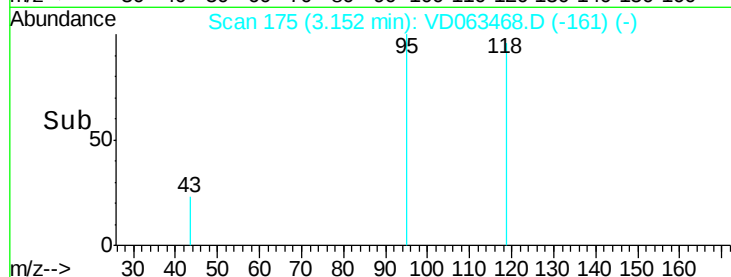


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#18

Methyl Acetate

Concen: 274.069 ug/l

RT: 3.46 min Scan# 206

Delta R.T. -0.17 min

Lab File: VD063468.D

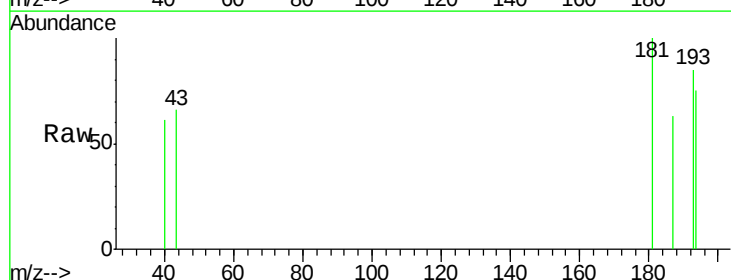
Acq: 9 Aug 2019 7:12

Tgt Ion: 43 Resp: 206

Ion Ratio Lower Upper

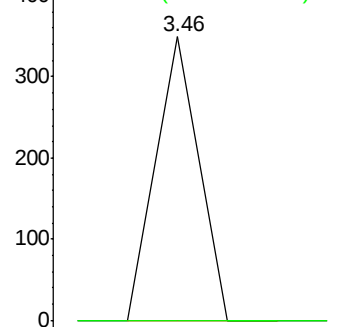
43 100

74 0.0 13.8 20.8#

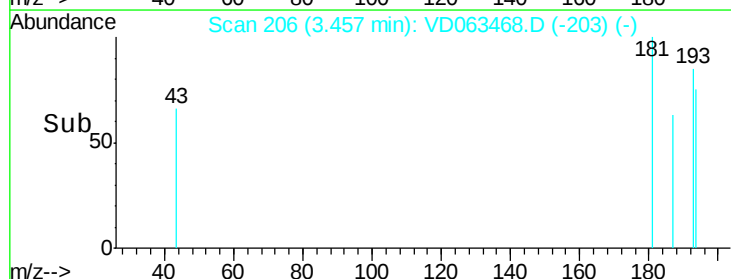


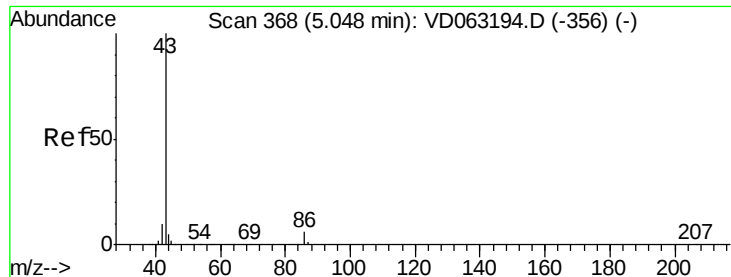
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



Time-->





#23

Vinyl Acetate

Concen: 106.676 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampled :

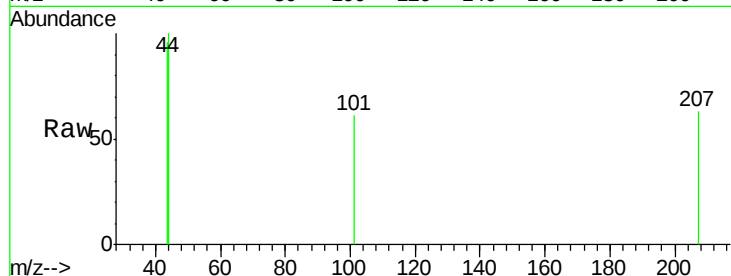
VOC-25

Tot Ion: 43 Resp: 293

Ion Ratio Lower Upper

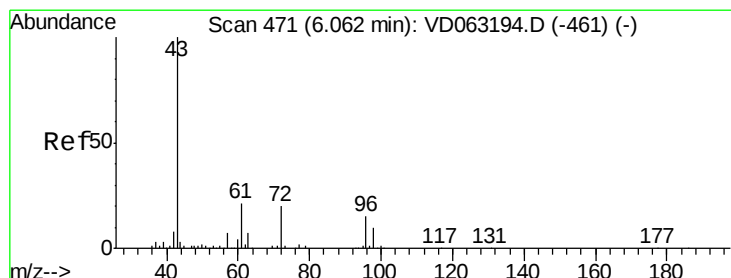
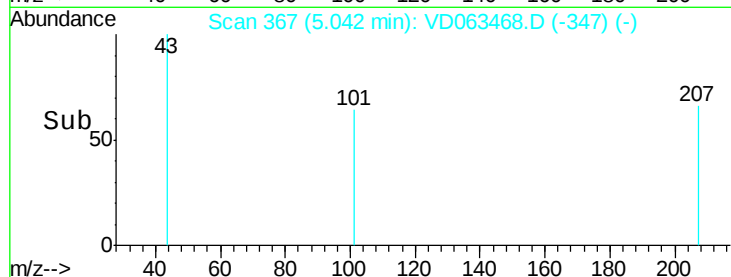
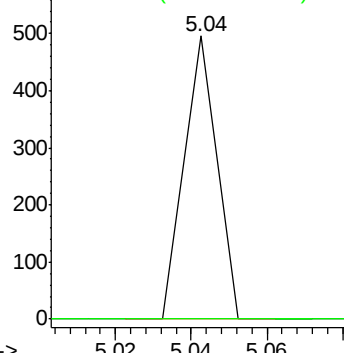
43 100

86 0.0 4.9 7.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#25

2-Butanone

Concen: 542.383 ug/l

RT: 6.04 min Scan# 468

Delta R.T. -0.02 min

Lab File: VD063468.D

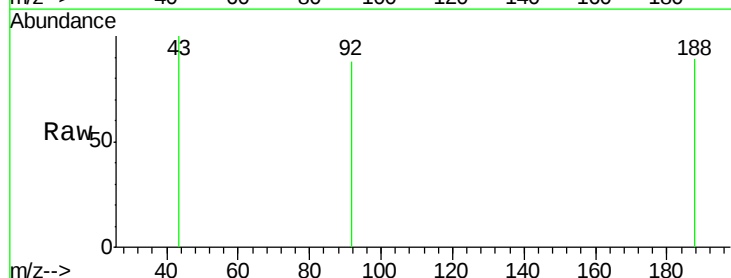
Acq: 9 Aug 2019 7:12

Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

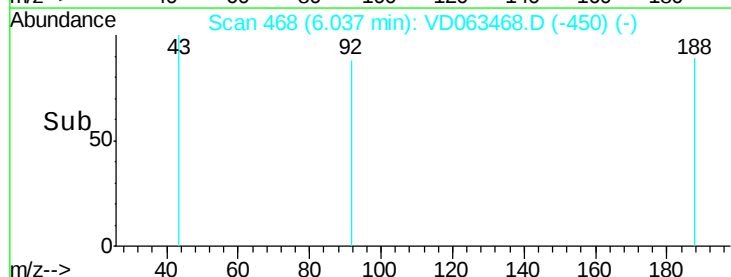
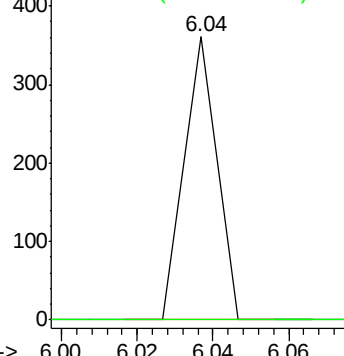
43 100

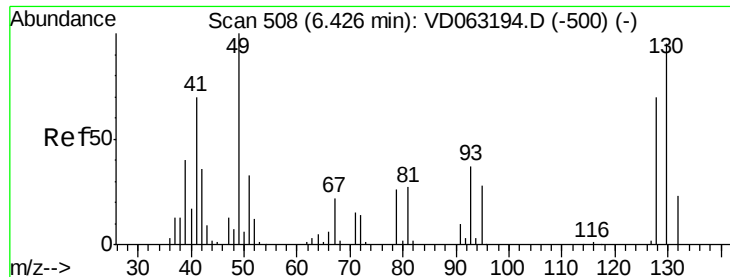
72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#28

Bromochloromethane

Concen: 191.707 ug/l

RT: 6.51 min Scan# 516

Delta R.T. 0.08 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampleId :

VOC-25

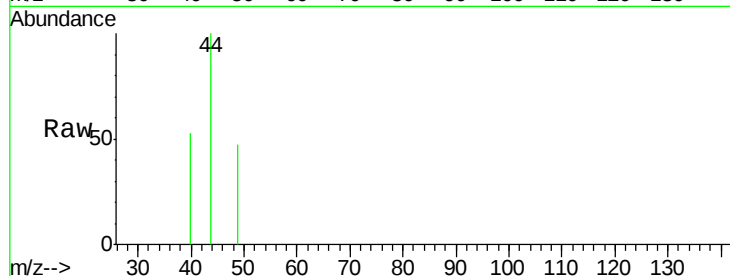
Tot Ion: 49 Resp: 218

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

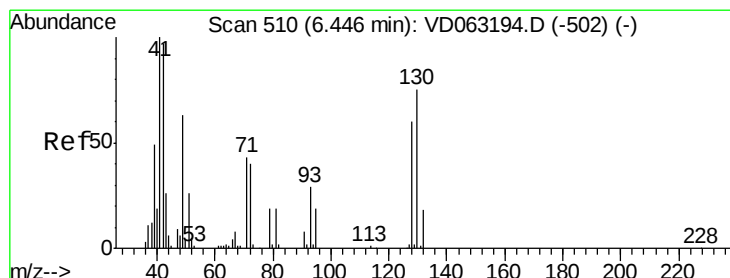
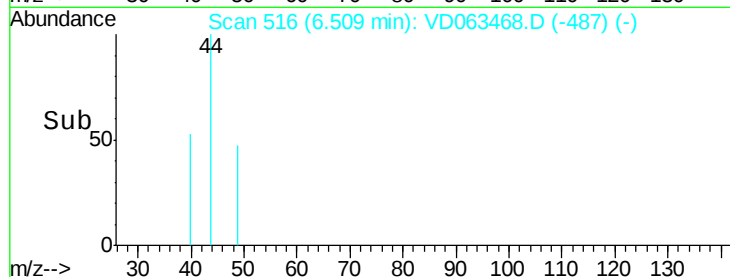
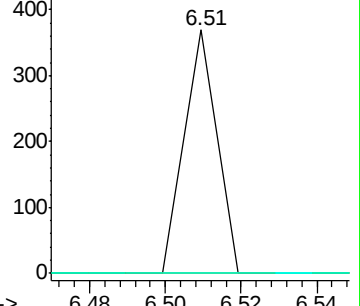
130 0.0 75.7 113.5#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#29

Tetrahydrofuran

Concen: 1140.222 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.29 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

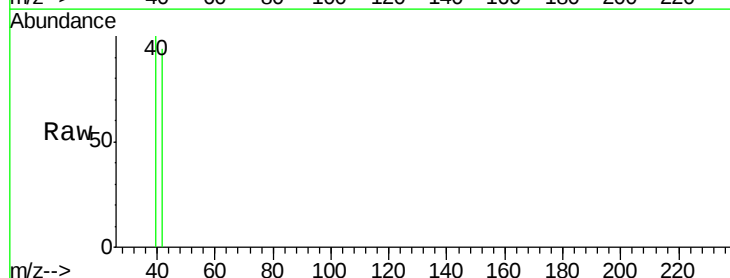
Tgt Ion: 42 Resp: 212

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

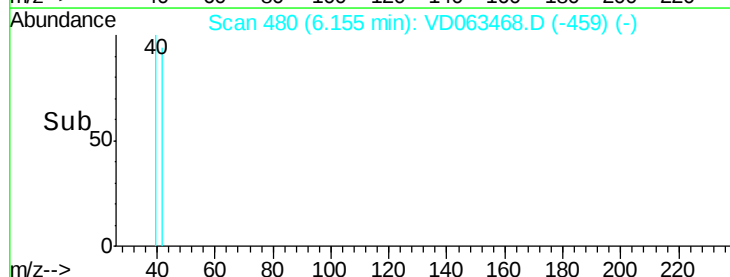
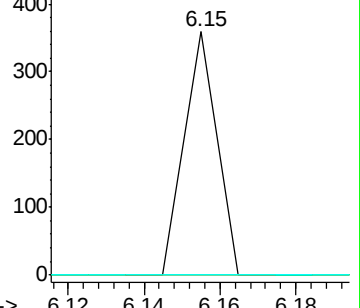
71 0.0 35.7 53.5#

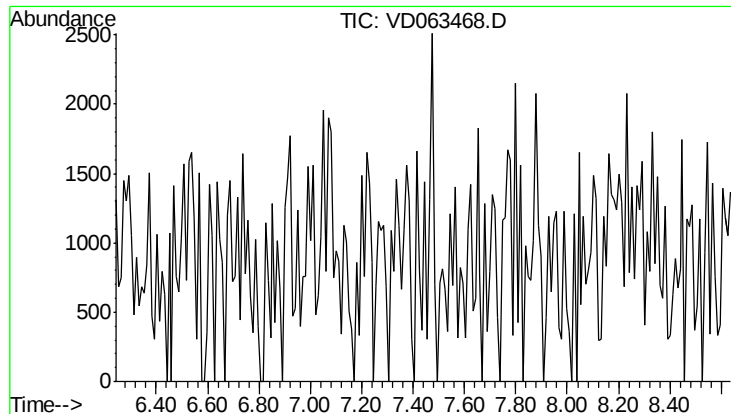


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

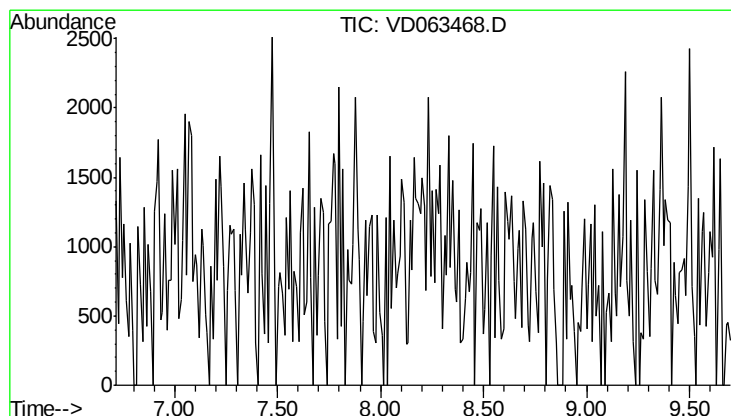
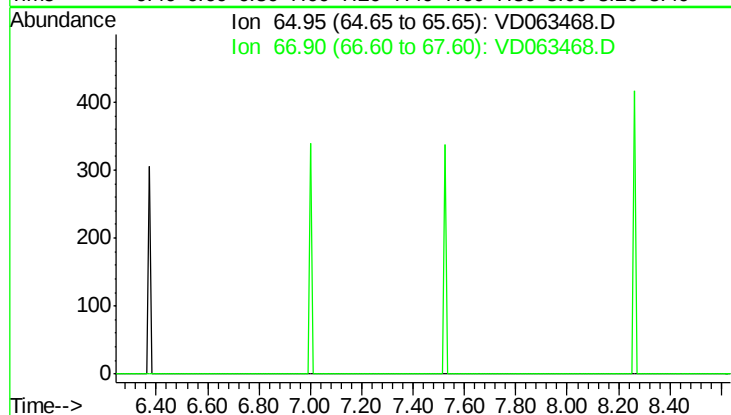




#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 Expected RT: 7.44 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

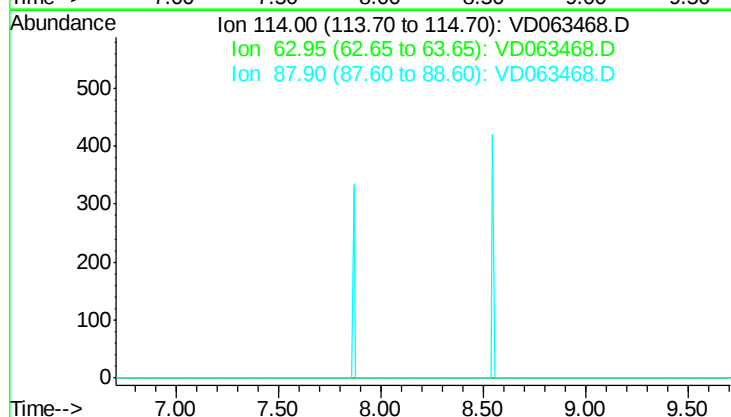
Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-25

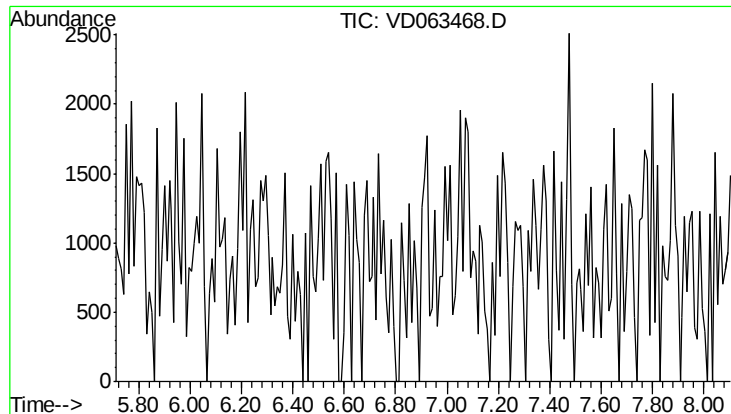
Tot Ion	65
Sig	Exp Ratio
65	100
67	42.9



#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.21 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

Tgt Ion	114
Sig	Exp Ratio
114	100
63	17.6
88	17.3

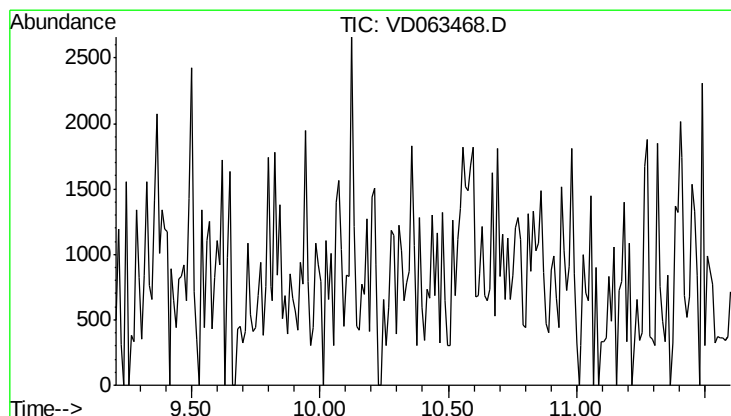
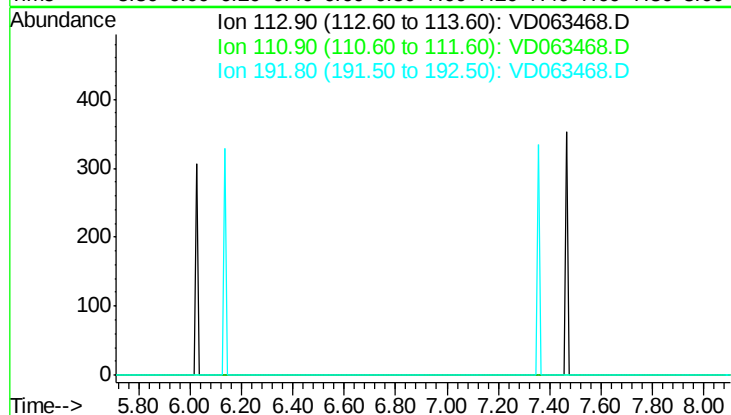




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 6.91 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

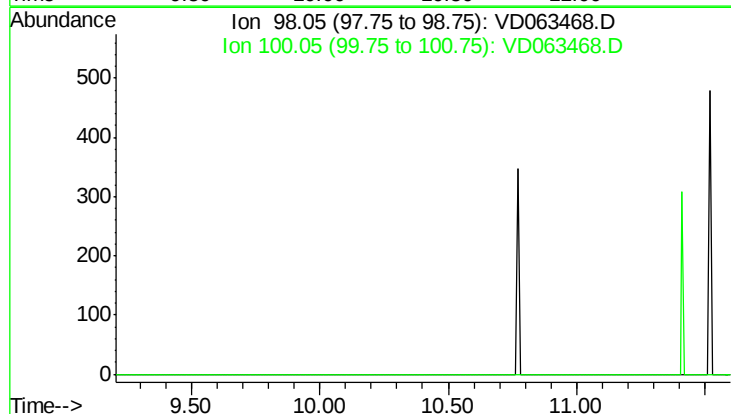
Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-25

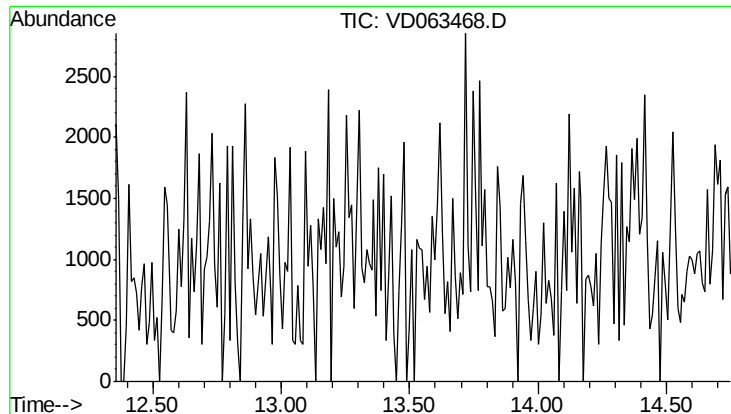
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 104.0
 192 14.8



#50
 Toluene-d8
 Concen: 0.000 ug/l
 Expected RT: 10.40 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

Tgt Ion: 98
 Sig Exp Ratio
 98 100
 100 66.5

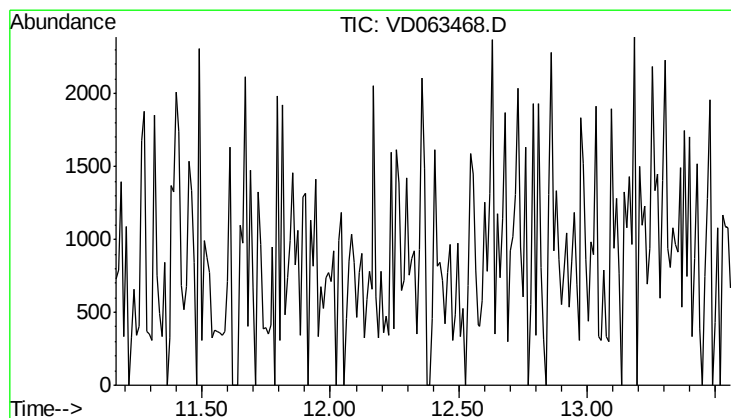
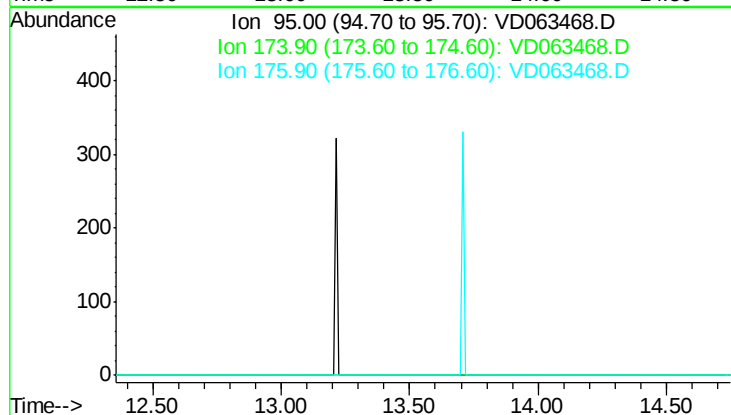




#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 13.55 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

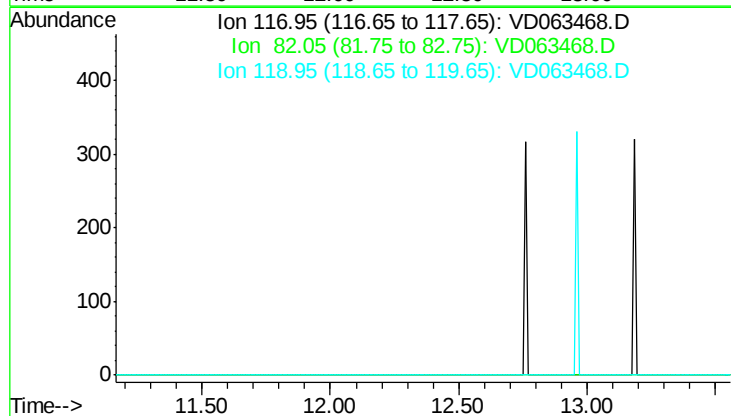
Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-25

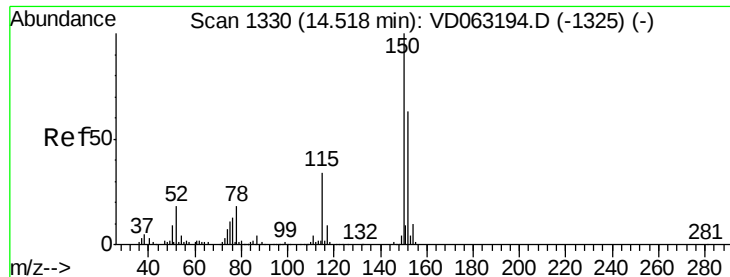
Tot Ion	95
Sig	Exp Ratio
95	100
174	102.7
176	105.9



#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 12.36 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

Tgt Ion	117
Sig	Exp Ratio
117	100
82	50.1
119	33.1



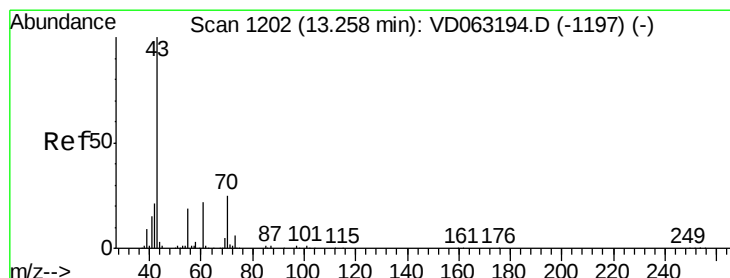
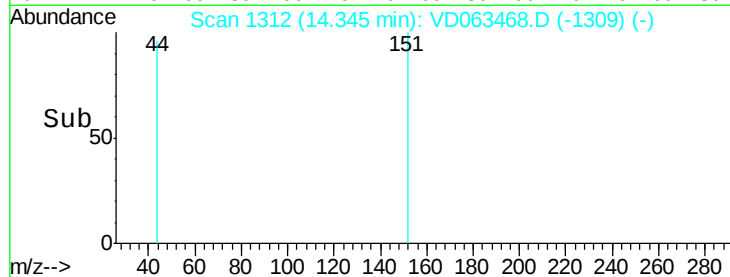
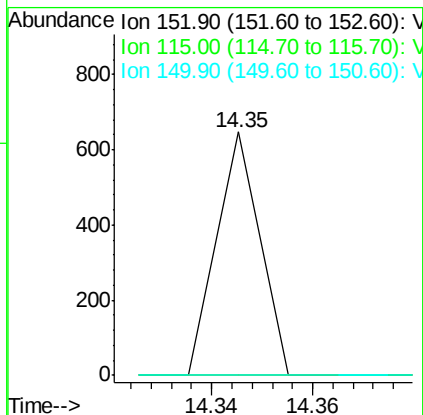
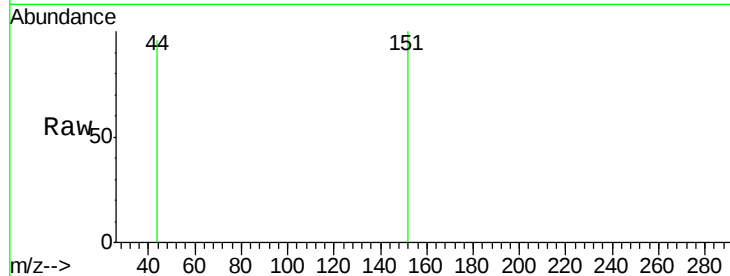


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.35 min Scan# 1312
Delta R.T. -0.17 min
Lab File: VD063468.D
Acq: 9 Aug 2019 7:12

Instrument :
MSVOA_D
ClientSampleId :
VOC-25

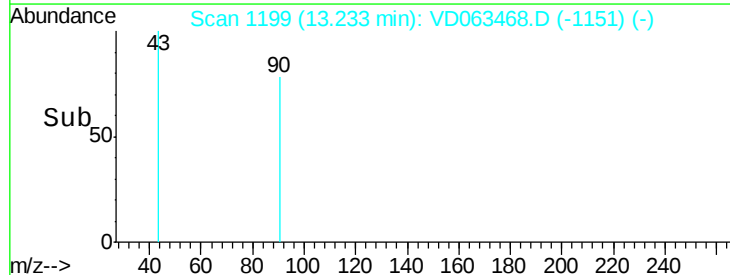
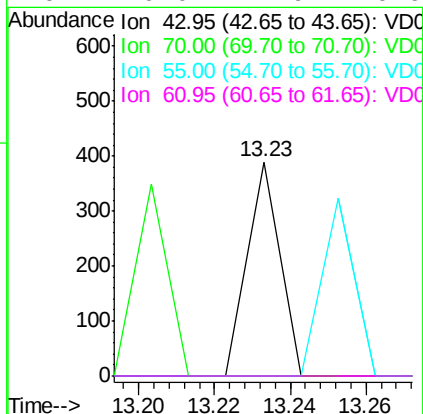
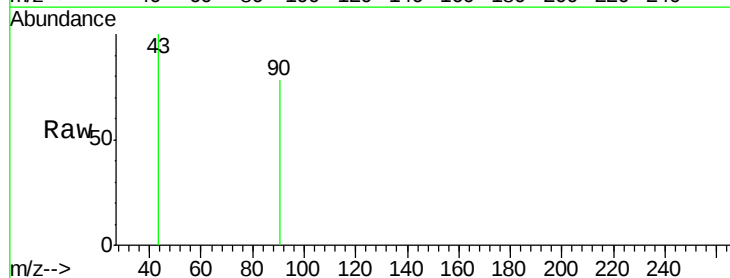
Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	27.5	82.4#
150	0.0	0.0	320.6

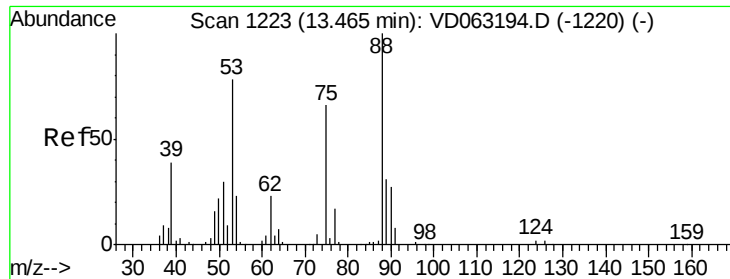


#74

N-ethyl acetate
Concen: 36.193 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.02 min
Lab File: VD063468.D
Acq: 9 Aug 2019 7:12

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	20.2	30.4#
55	0.0	14.9	22.3#
61	0.0	17.9	26.9#





#81

trans-1,4-Dichloro-2-butene

Concen: 138.561 ug/l

RT: 13.33 min Scan# 1209

Delta R.T. -0.13 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

Instrument :

MSVOA_D

ClientSampleId :

VOC-25

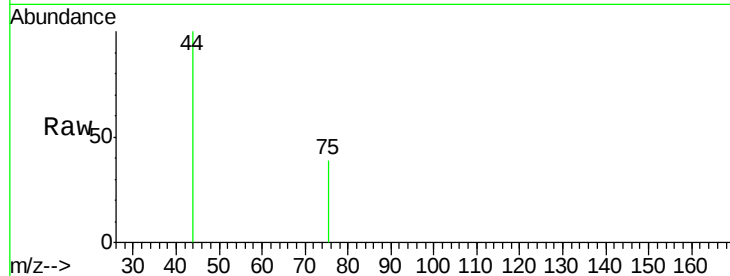
Tot Ion: 75 Resp: 177

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

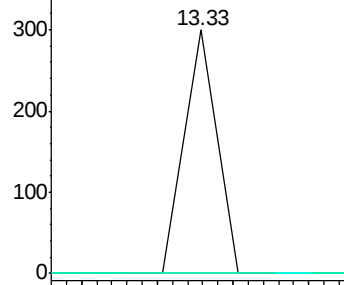
89 0.0 37.4 56.0#



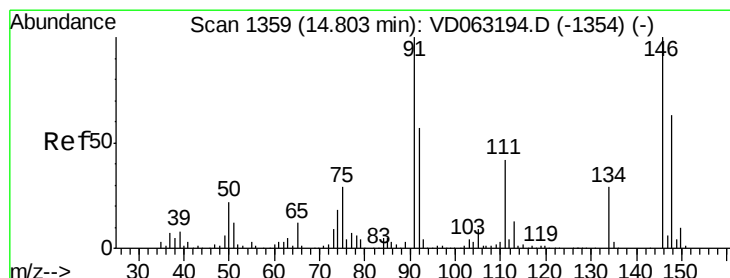
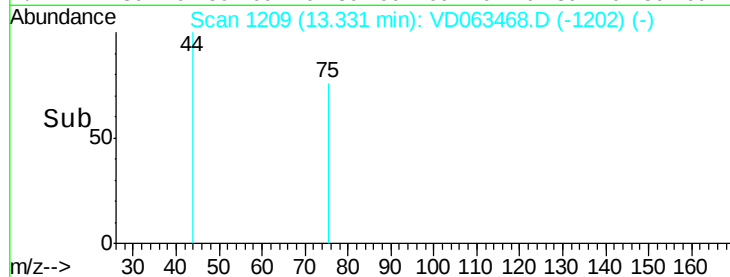
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



Time-->



#91

1,2-Dichlorobenzene

Concen: 19.213 ug/l

RT: 14.96 min Scan# 1374

Delta R.T. 0.15 min

Lab File: VD063468.D

Acq: 9 Aug 2019 7:12

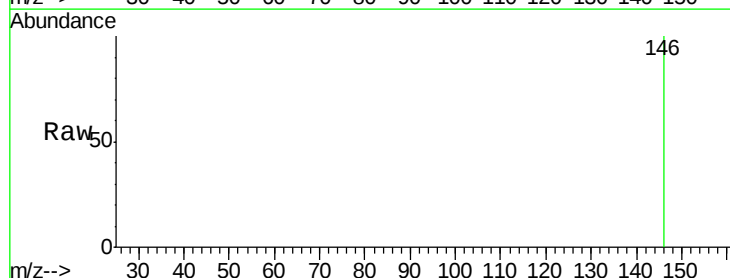
Tgt Ion: 146 Resp: 203

Ion Ratio Lower Upper

146 100

111 0.0 21.1 63.3#

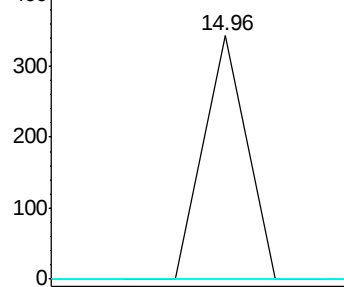
148 0.0 31.6 94.8#



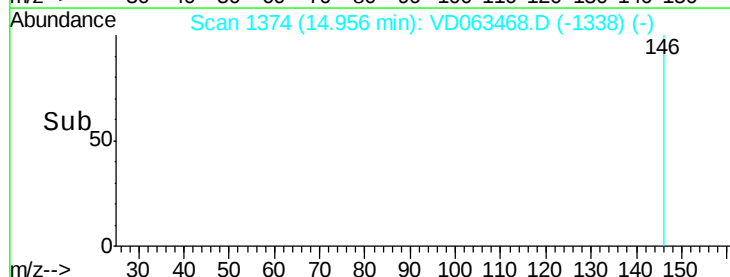
Abundance Ion 145.95 (145.65 to 146.65): V

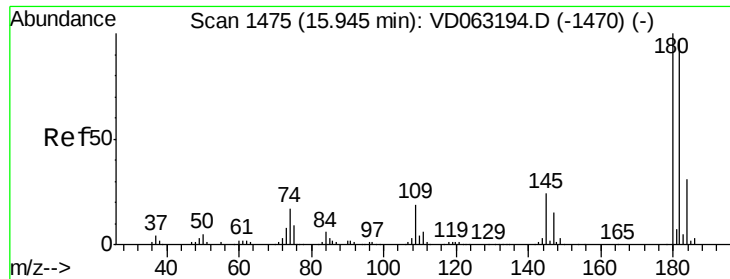
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->

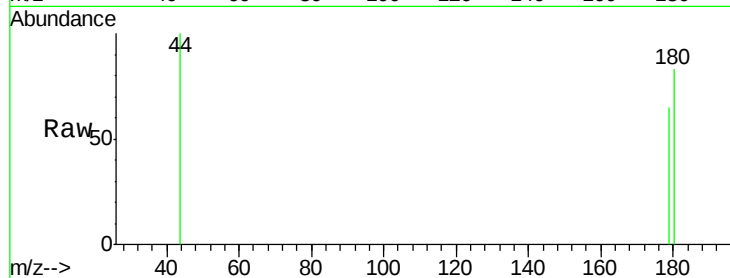




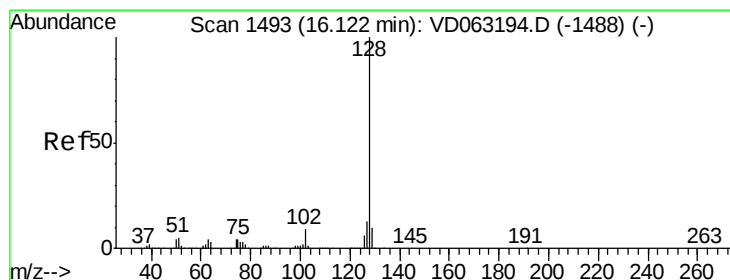
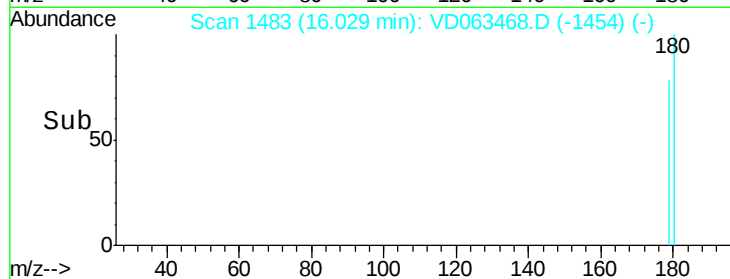
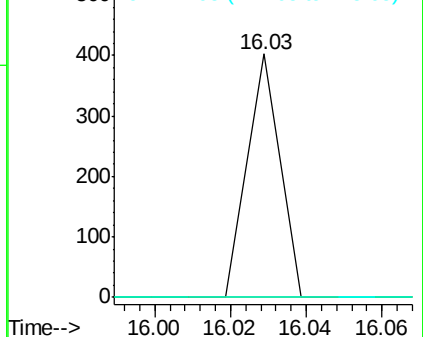
#93
 1,2,4-Trichlorobenzene
 Concen: 28.394 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. 0.08 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VOC-25

Tot Ion:180 Resp: 238
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.6 145.8#
 145 0.0 12.2 36.6#

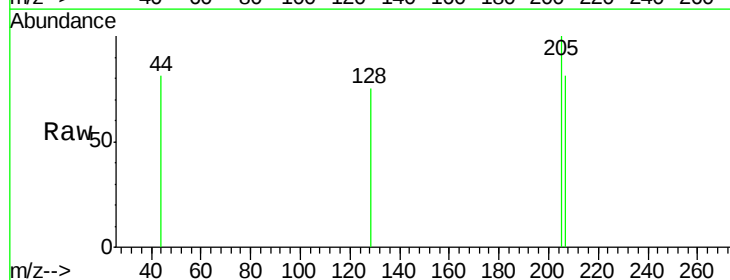


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 16.038 ug/l
 RT: 16.15 min Scan# 1495
 Delta R.T. 0.02 min
 Lab File: VD063468.D
 Acq: 9 Aug 2019 7:12

Tgt Ion:128 Resp: 190
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 7.8 11.8#



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

