

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051119\
 Data File : VD062232.D
 Acq On : 11 May 2019 12:50
 Operator : FY/SY
 Sample : K2728-01RE
 Misc : 5.70g/5mL/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-3A-OW(0-10)RE

Quant Time: May 11 22:20:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	406453	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	602105	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.36	117	386838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	116947	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	217944	57.70	ug/l	0.02
Spiked Amount			Recovery	=	115.40%	
35) Dibromofluoromethane	6.92	113	253682	50.78	ug/l	0.03
Spiked Amount			Recovery	=	101.56%	
50) Toluene-d8	10.40	98	476914	39.59	ug/l	0.00
Spiked Amount			Recovery	=	79.18%	
62) 4-Bromofluorobenzene	13.55	95	132482	27.39	ug/l	0.00
Spiked Amount			Recovery	=	54.78%	

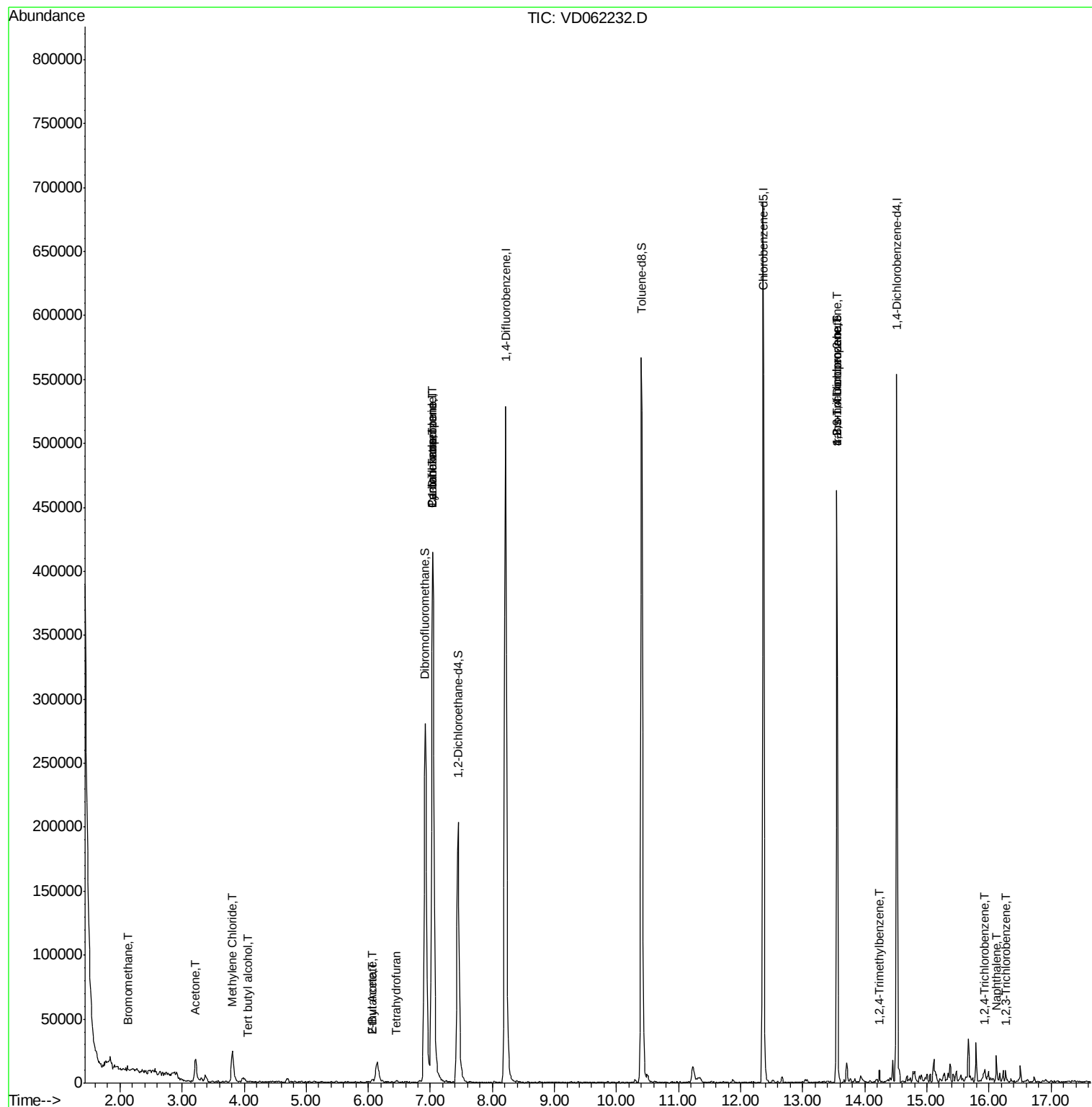
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	687	1.062	ug/l #	12
11) Tert butyl alcohol	4.06	59	613	3.179	ug/l #	76
16) Acetone	3.22	43	34304	43.306	ug/l #	89
18) Methyl Acetate	3.65	43	186	Below Cal	#	53
20) Methylene Chloride	3.82	84	17052	5.156	ug/l	90
25) 2-Butanone	6.06	43	4871	5.638	ug/l #	79
29) Tetrahydrofuran	6.46	42	1050	2.638	ug/l #	62
31) Cyclohexane	7.04	56	7549	1.905	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	31327	6.346	ug/l #	48
37) Ethyl Acetate	6.06	43	4871	2.327	ug/l #	64
38) Carbon Tetrachloride	7.04	117	41288	6.043	ug/l #	17
76) 1,2,3-Trichloropropane	13.55	75	40844	29.388	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.55	75	55176	140.628	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	6109	1.031	ug/l	92
93) 1,2,4-Trichlorobenzene	15.94	180	2242	1.043	ug/l	88
95) Naphthalene	16.12	128	12303	4.101	ug/l #	95
96) 1,2,3-Trichlorobenzene	16.27	180	2059	1.524	ug/l #	64

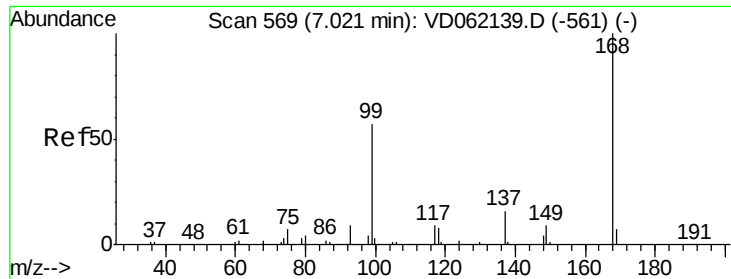
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

Instrument :

MSVOA_D

ClientSampleId :

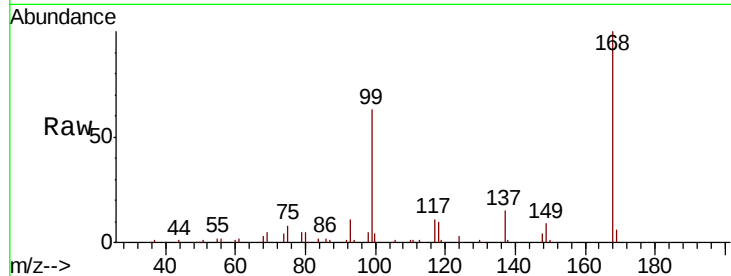
P-3A-OW(0-10)RE

Tot Ion:168 Resp: 406453

Ion Ratio Lower Upper

168 100

99 63.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

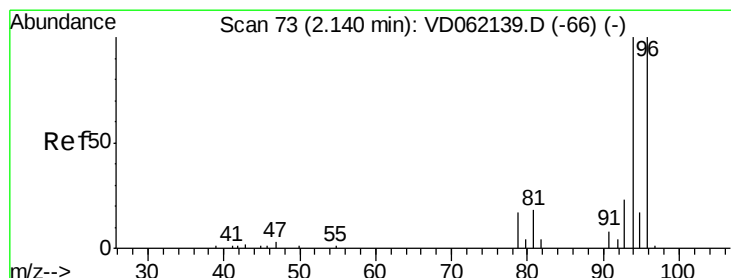
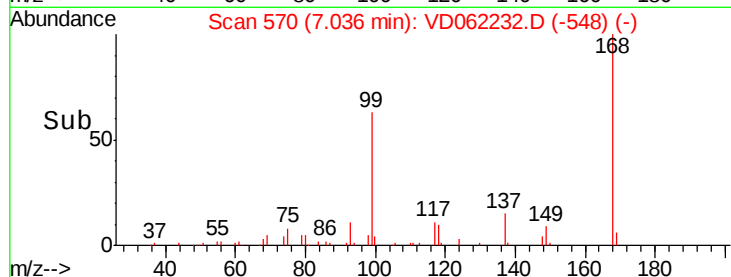
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 1.062 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

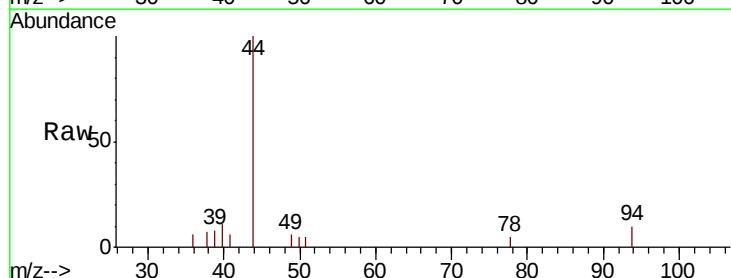
Tgt Ion: 94 Resp: 687

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

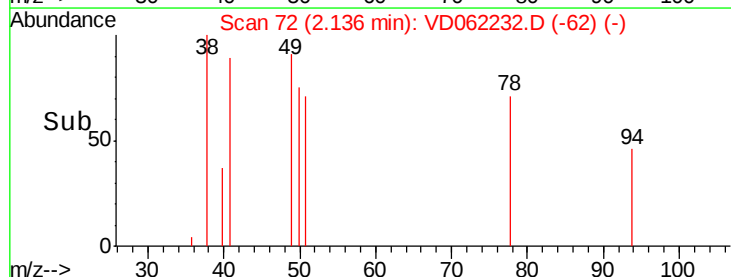
1500

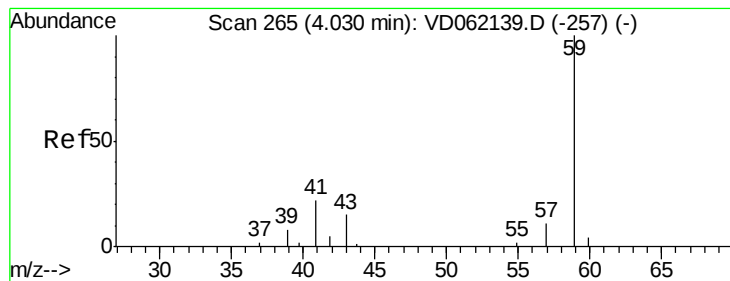
1000

500

0

Time-->



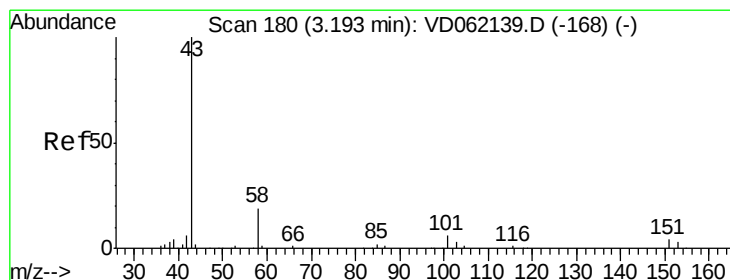
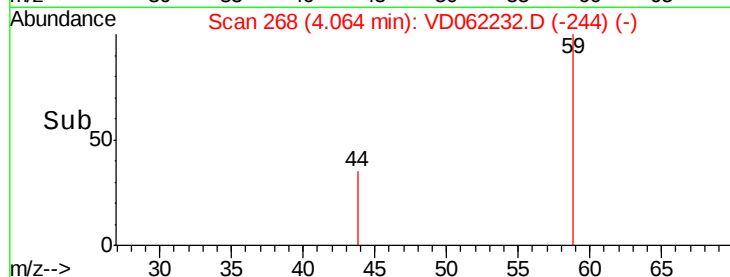
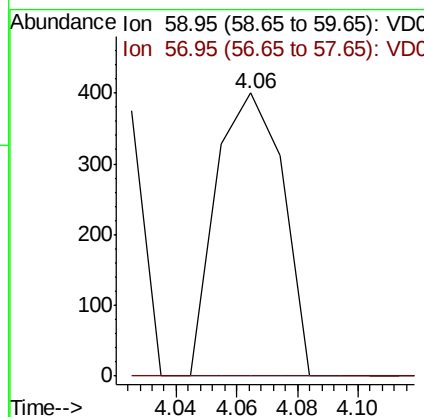
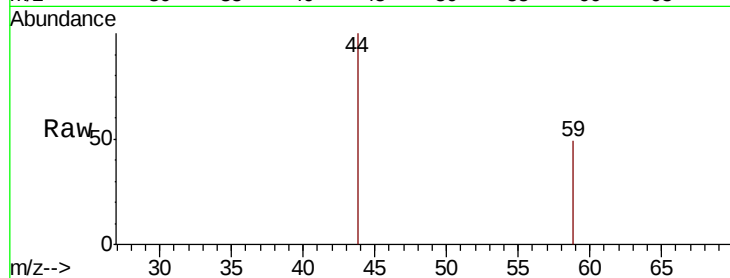


#11

Tert butyl alcohol
 Concen: 3.179 ug/l
 RT: 4.06 min Scan# 268
 Delta R.T. 0.03 min
 Lab File: VD062232.D
 Acq: 11 May 2019 12:50

Instrument :
 MSVOA_D
 ClientSampleId :
 P-3A-OW(0-10)RE

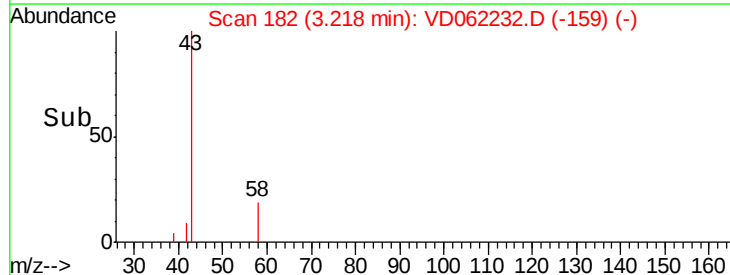
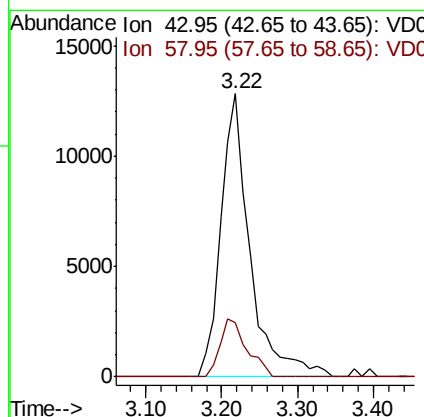
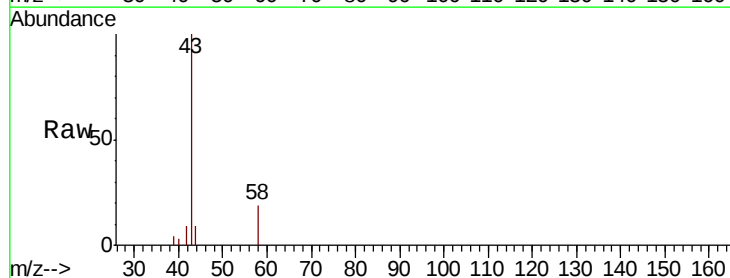
Tot Ion: 59 Resp: 613
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

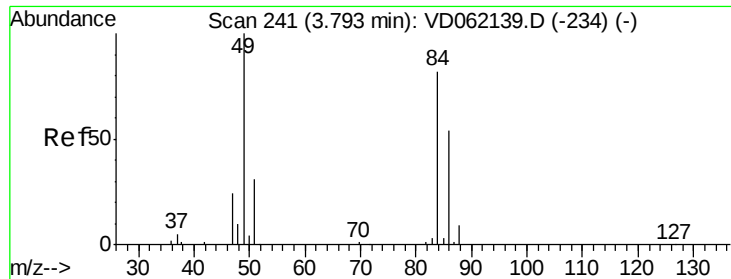


#16

Acetone
 Concen: 43.306 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. 0.03 min
 Lab File: VD062232.D
 Acq: 11 May 2019 12:50

Tgt Ion: 43 Resp: 34304
 Ion Ratio Lower Upper
 43 100
 58 19.4 19.9 29.9#

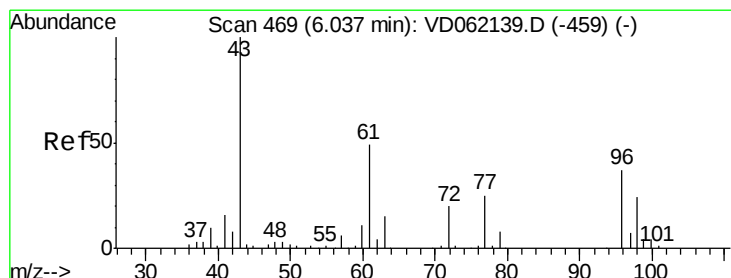
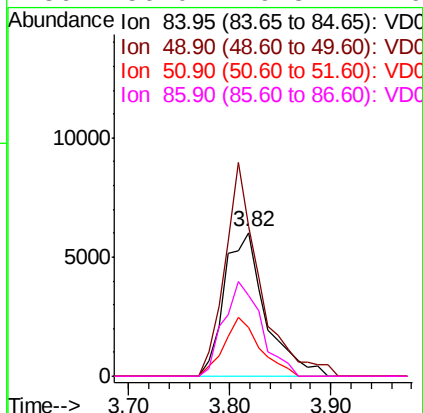
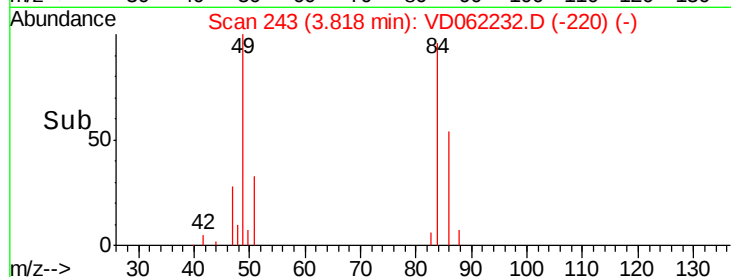
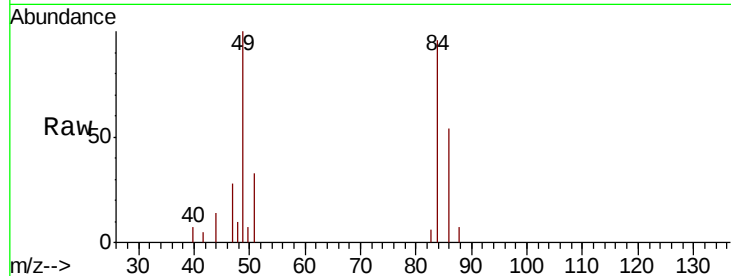




#20
Methylene Chloride
Concen: 5.156 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

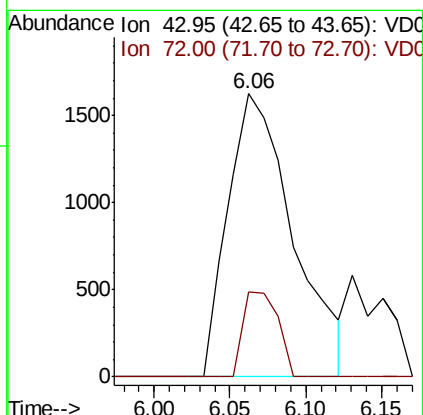
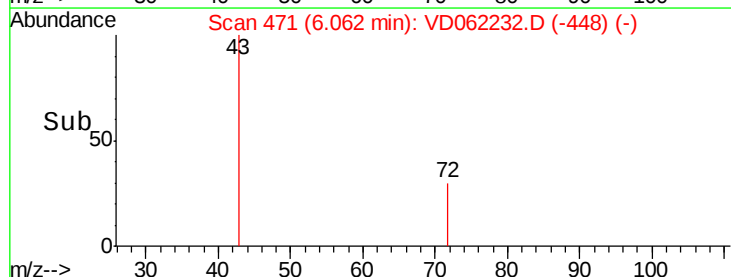
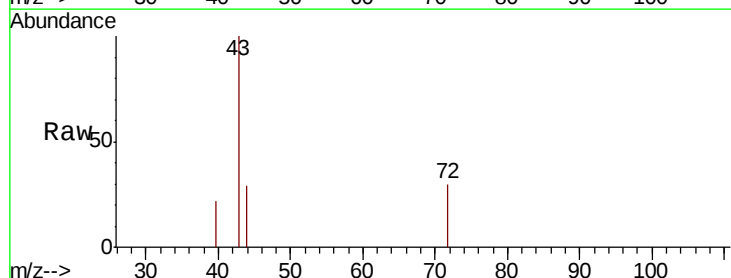
Instrument :
MSVOA_D
ClientSampleId :
P-3A-OW(0-10)RE

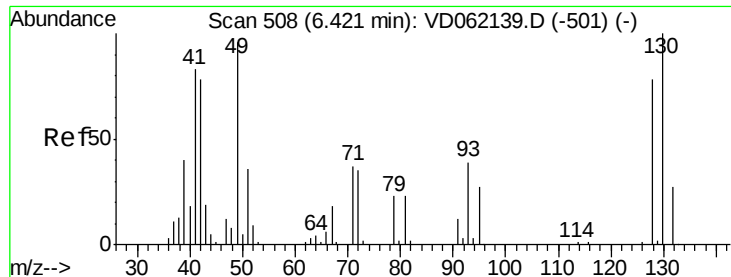
Tot Ion: 84 Resp: 17052
Ion Ratio Lower Upper
84 100
49 104.1 94.0 141.0
51 34.0 29.0 43.4
86 56.0 49.8 74.6



#25
2-Butanone
Concen: 5.638 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.03 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

Tgt Ion: 43 Resp: 4871
Ion Ratio Lower Upper
43 100
72 29.9 16.2 24.4#





#29

Tetrahydrofuran

Concen: 2.638 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.03 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

Instrument :

MSVOA_D

ClientSampleId :

P-3A-OW(0-10)RE

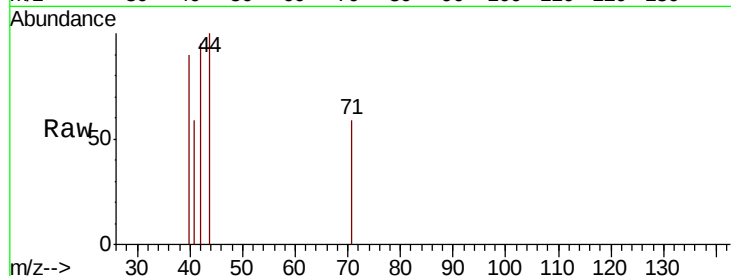
Tot Ion: 42 Resp: 1050

Ion Ratio Lower Upper

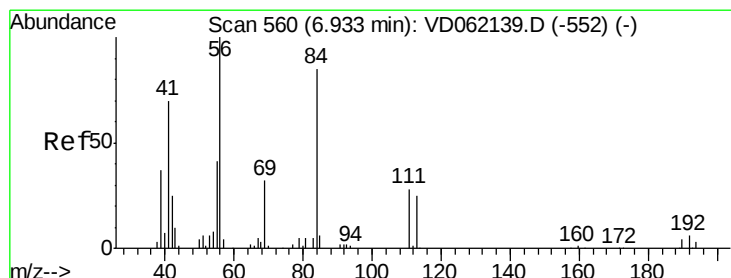
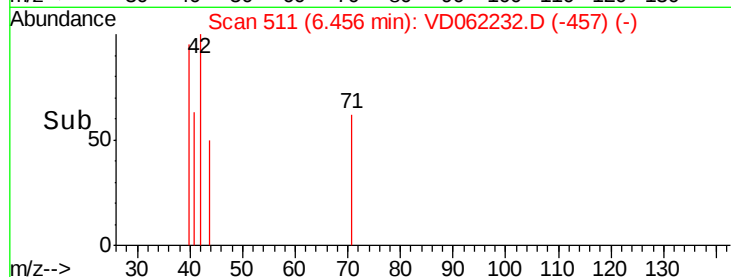
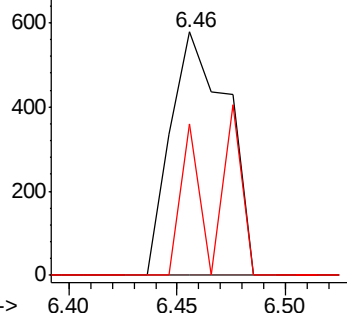
42 100

72 0.0 37.8 56.6#

71 43.0 36.7 55.1



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: 1.905 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

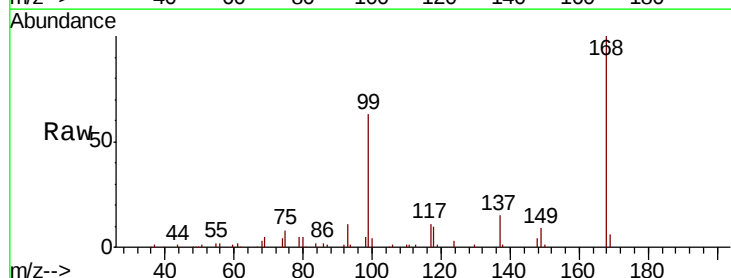
Tgt Ion: 56 Resp: 7549

Ion Ratio Lower Upper

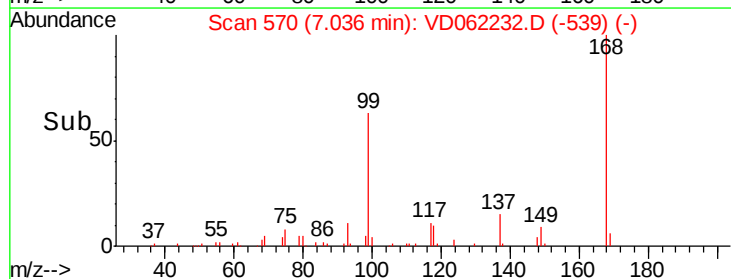
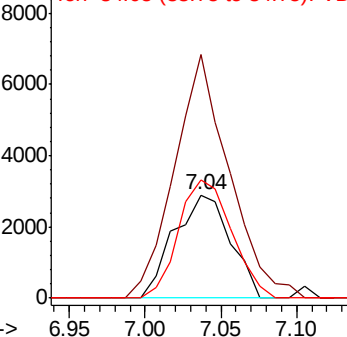
56 100

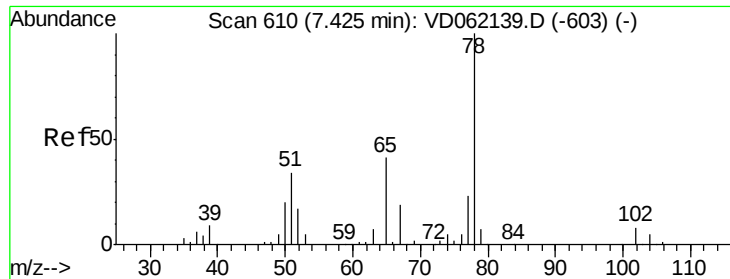
69 235.4 25.8 38.6#

84 114.0 72.2 108.4#



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: 57.700 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

Instrument :

MSVOA_D

ClientSampleId :

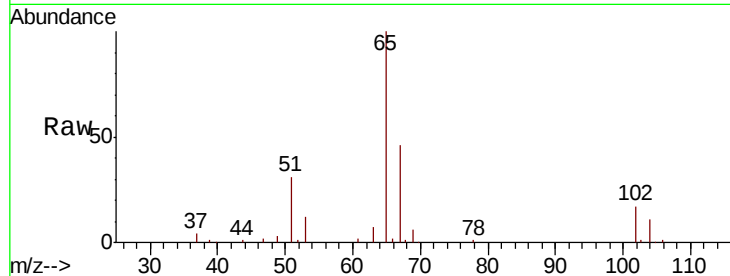
P-3A-OW(0-10)RE

Tot Ion: 65 Resp: 217944

Ion Ratio Lower Upper

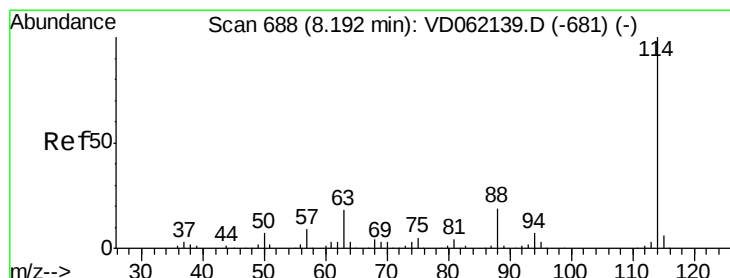
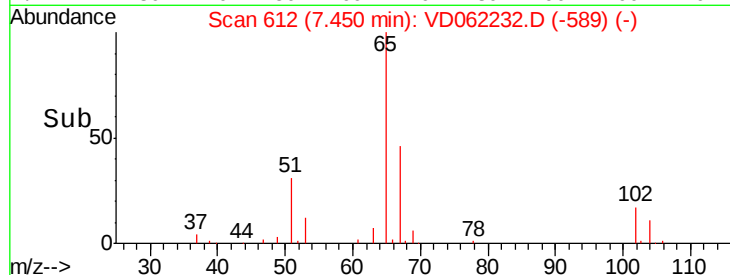
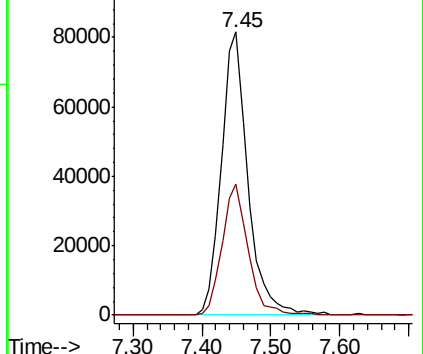
65 100

67 46.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.03 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

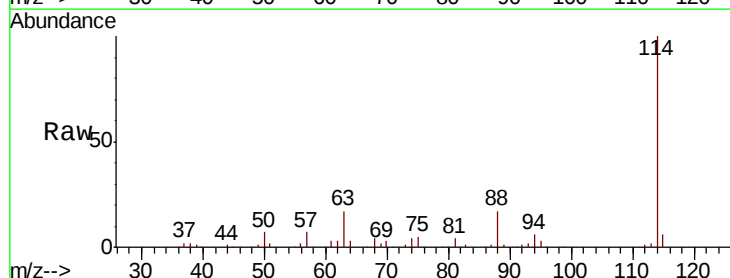
Tgt Ion: 114 Resp: 602105

Ion Ratio Lower Upper

114 100

63 17.4 0.0 32.4

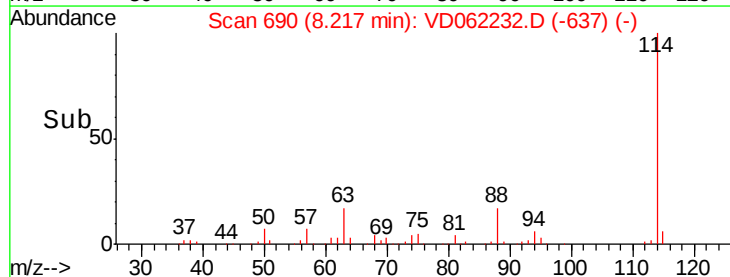
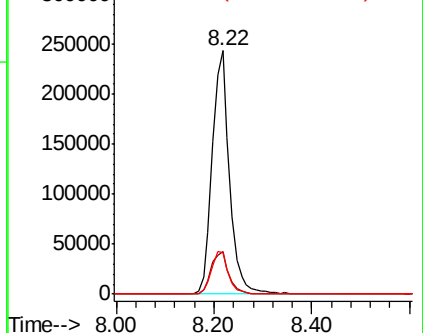
88 17.2 0.0 33.6

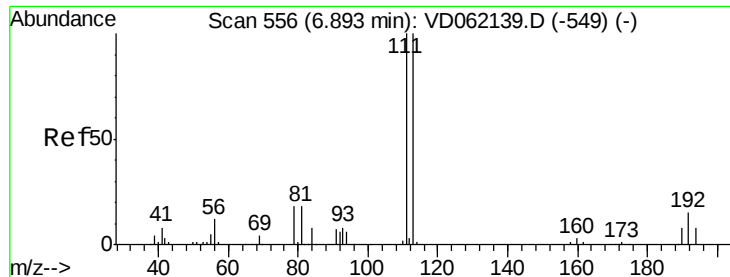


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

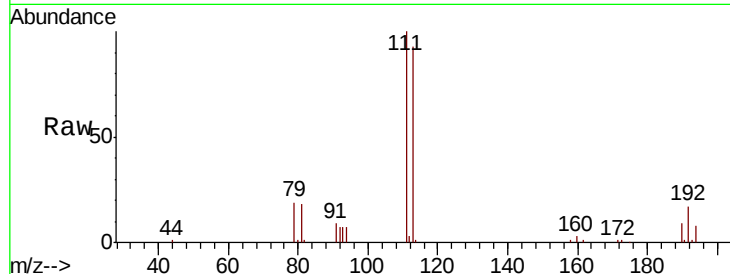




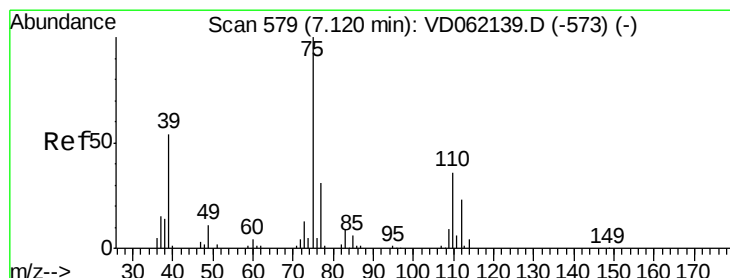
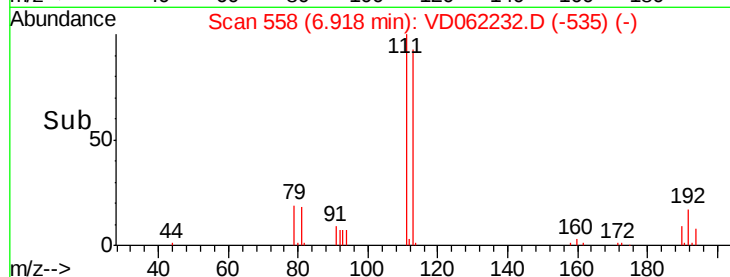
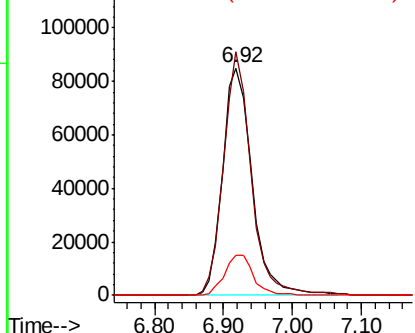
#35
 Dibromofluoromethane
 Concen: 50.780 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.03 min
 Lab File: VD062232.D
 Acq: 11 May 2019 12:50

Instrument :
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Tot Ion:113 Resp: 253682
 Ion Ratio Lower Upper
 113 100
 111 107.0 78.5 117.7
 192 17.7 13.0 19.4

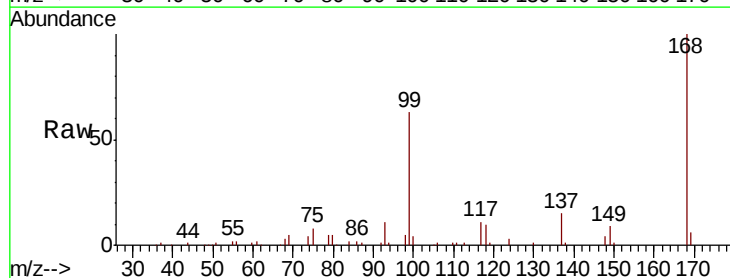


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

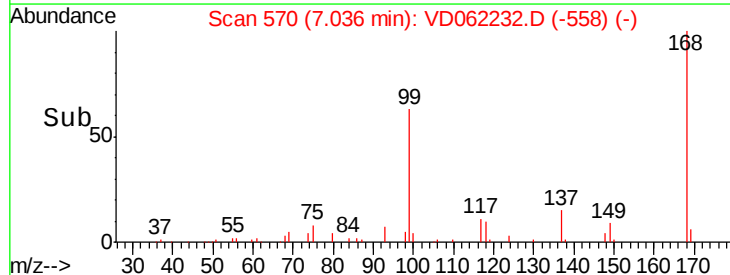
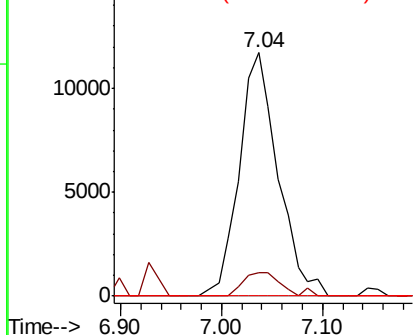


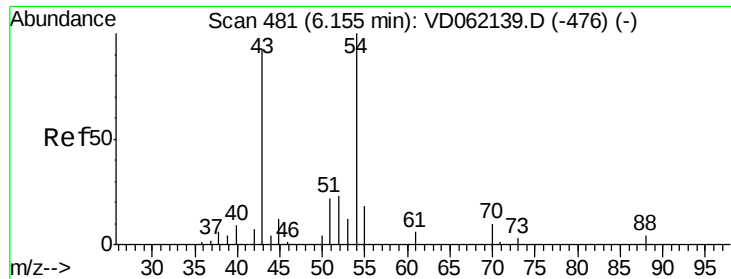
#36
 1,1-Dichloropropene
 Concen: 6.346 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.08 min
 Lab File: VD062232.D
 Acq: 11 May 2019 12:50

Tgt Ion: 75 Resp: 31327
 Ion Ratio Lower Upper
 75 100
 110 9.7 19.1 57.1#
 77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

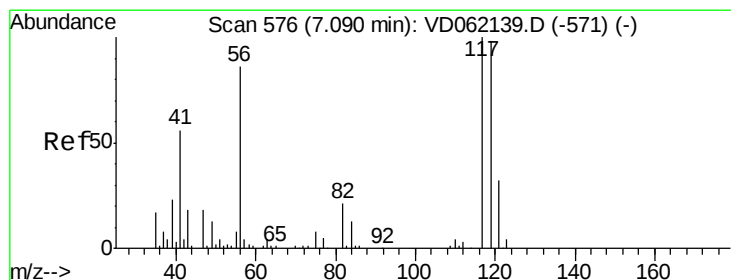
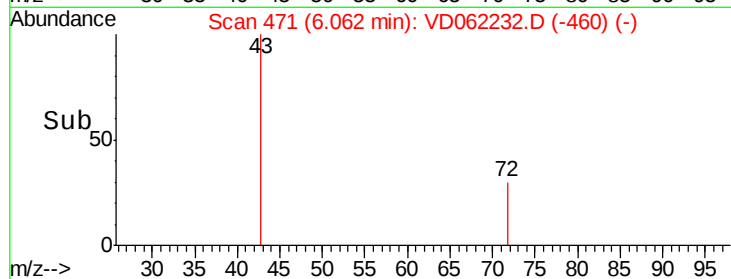
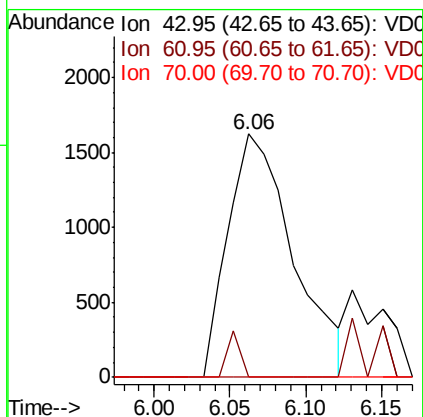
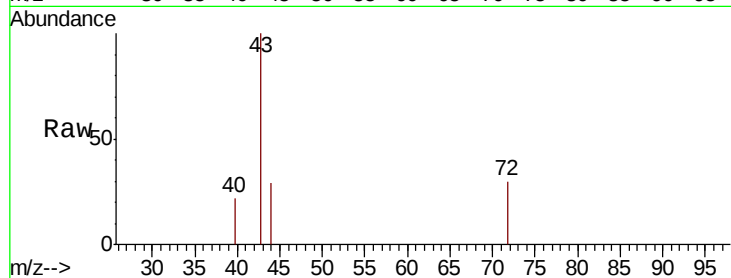




#37
Ethyl Acetate
Concen: 2.327 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.09 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

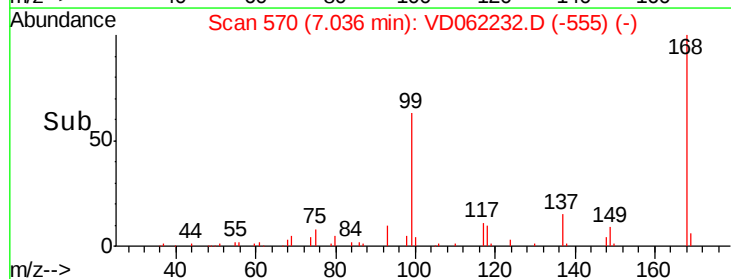
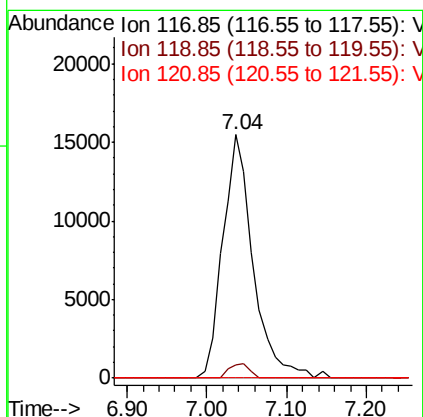
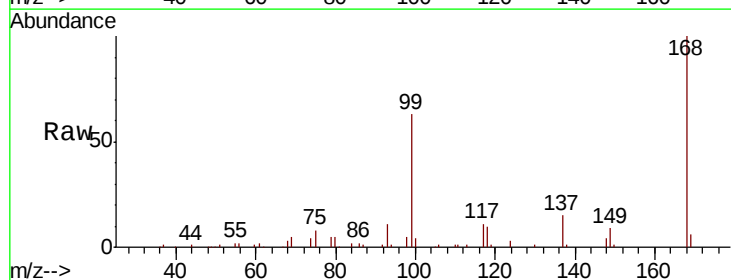
Instrument :
MSVOA_D
ClientSampleId :
P-3A-OW(0-10)RE

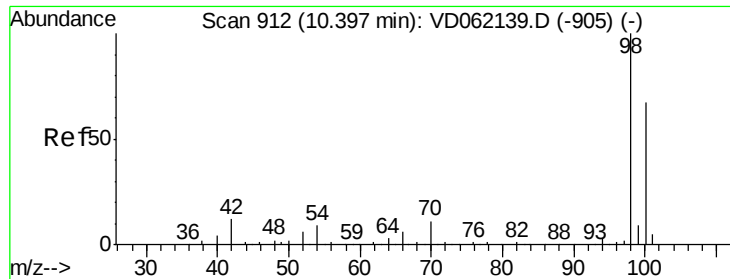
Tot Ion: 43 Resp: 4871
Ion Ratio Lower Upper
43 100
61 0.0 14.7 22.1#
70 0.0 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 6.043 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.05 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

Tgt Ion: 117 Resp: 41288
Ion Ratio Lower Upper
117 100
119 5.3 75.8 113.8#
121 0.0 25.9 38.9#





#50

Toluene-d8

Concen: 39.594 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.01 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

Instrument :

MSVOA_D

ClientSampleId :

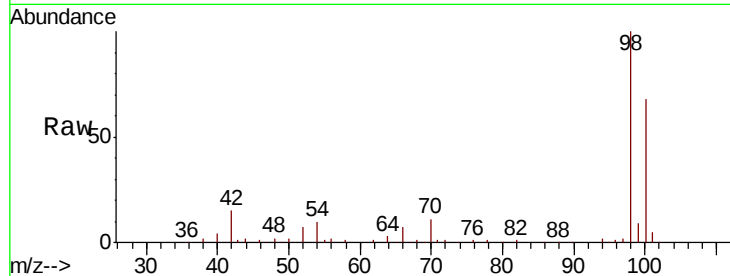
P-3A-OW(0-10)RE

Tot Ion: 98 Resp: 476914

Ion Ratio Lower Upper

98 100

100 68.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

250000

200000

150000

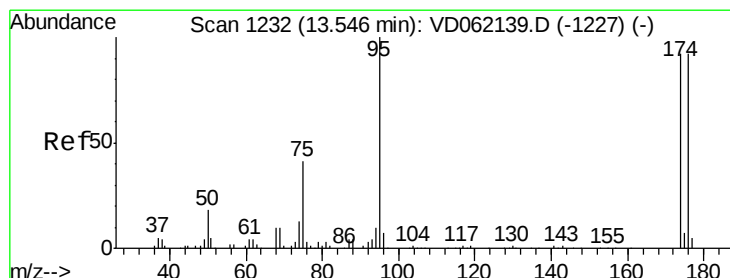
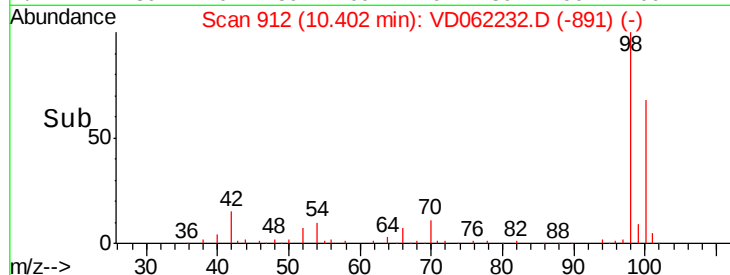
100000

50000

0

10.30 10.40 10.50 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: 27.390 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

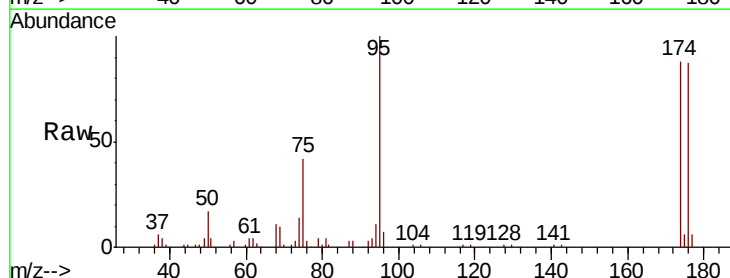
Tgt Ion: 95 Resp: 132482

Ion Ratio Lower Upper

95 100

174 88.4 0.0 181.8

176 86.9 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

120000

100000

80000

60000

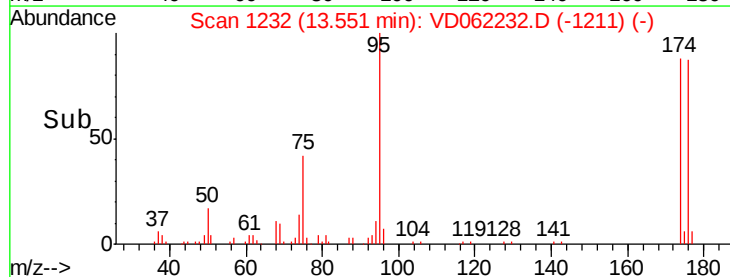
40000

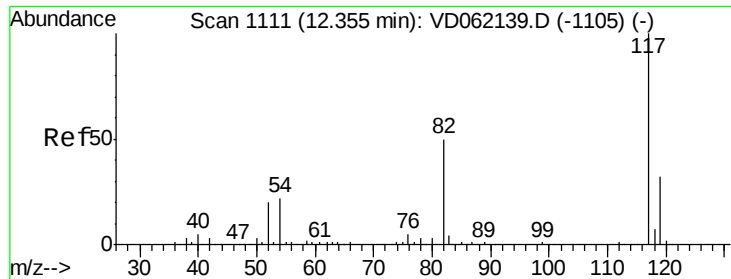
20000

0

13.50 13.55 13.60

Time-->

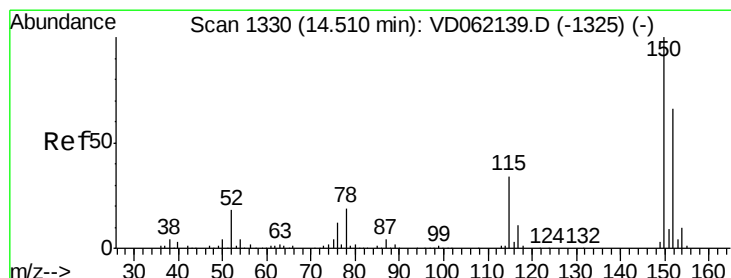
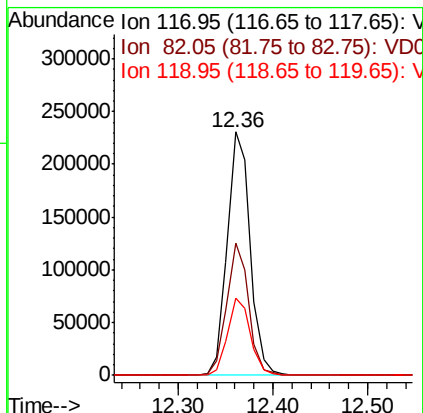
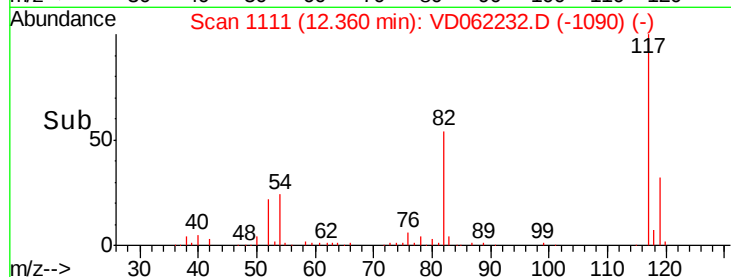
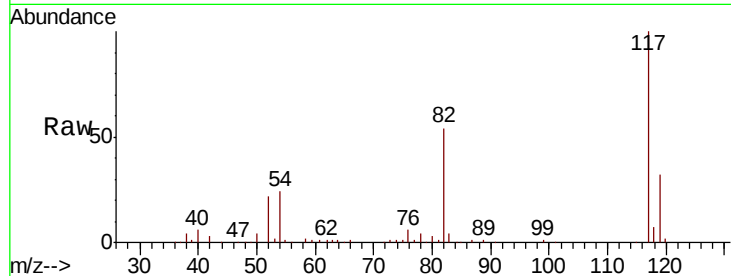




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

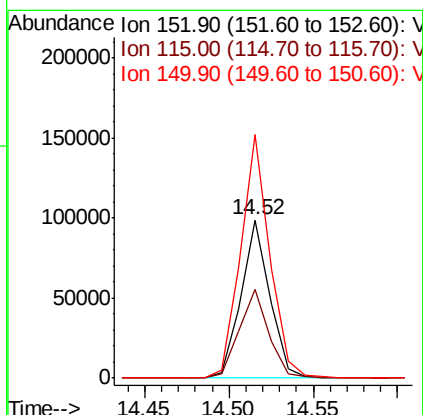
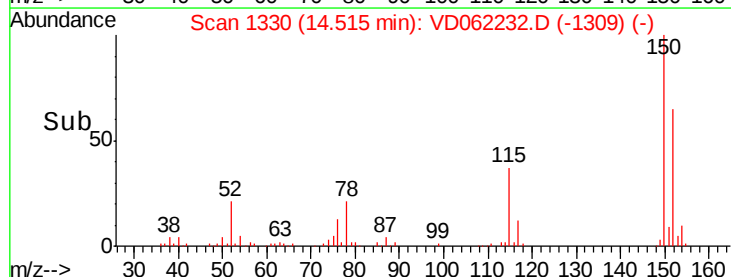
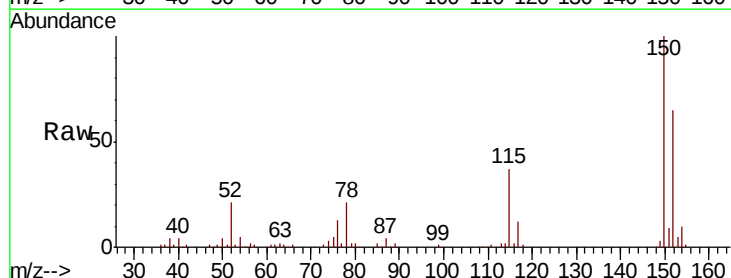
Instrument :
MSVOA_D
ClientSampleId :
P-3A-OW(0-10)RE

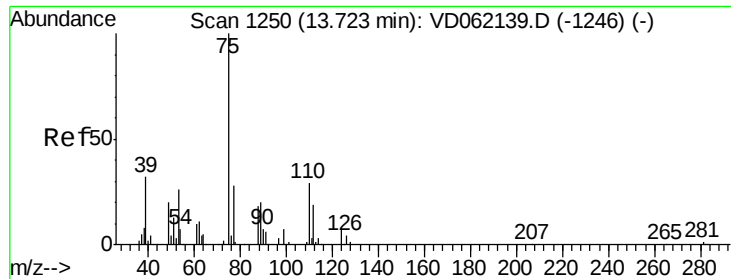
Tot Ion:117 Resp: 386838
Ion Ratio Lower Upper
117 100
82 54.2 36.2 54.2
119 31.5 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

Tgt Ion:152 Resp: 116947
Ion Ratio Lower Upper
152 100
115 56.5 30.9 92.7
150 154.0 0.0 314.8





#76

1,2,3-Trichloropropane

Concen: 29.388 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

Instrument :

MSVOA_D

ClientSampleId :

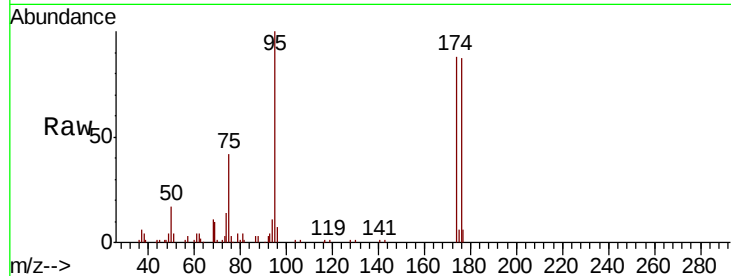
P-3A-OW(0-10)RE

Tot Ion: 75 Resp: 40844

Ion Ratio Lower Upper

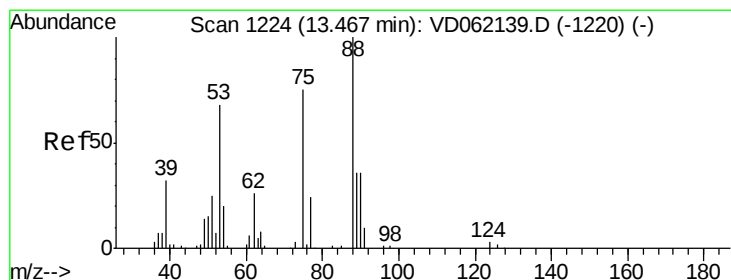
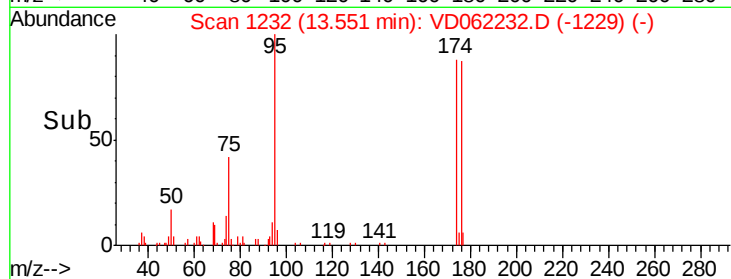
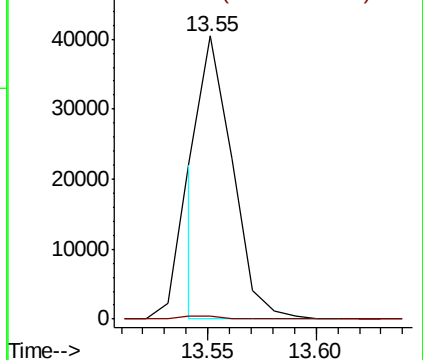
75 100

77 0.9 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 140.628 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062232.D

Acq: 11 May 2019 12:50

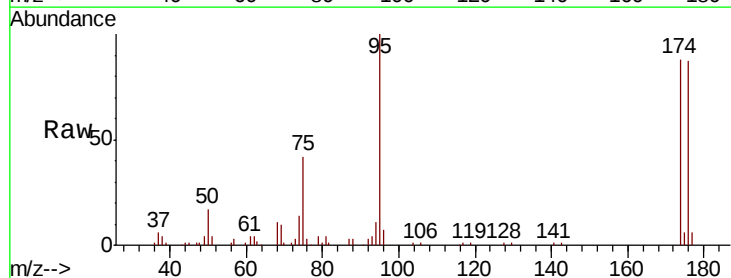
Tgt Ion: 75 Resp: 55176

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

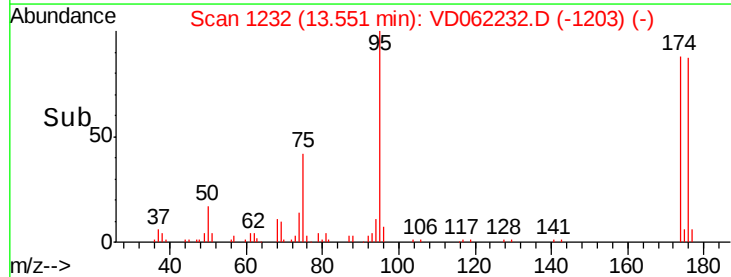
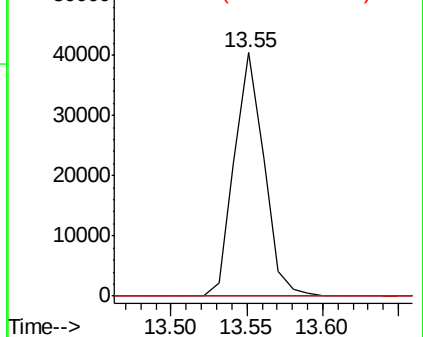
89 0.0 35.0 52.6#

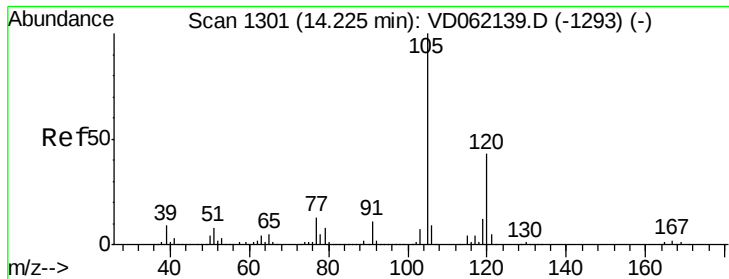


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

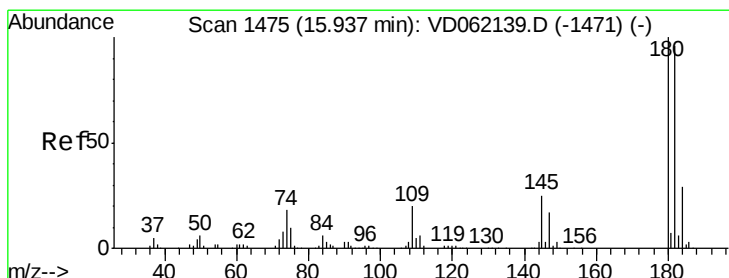
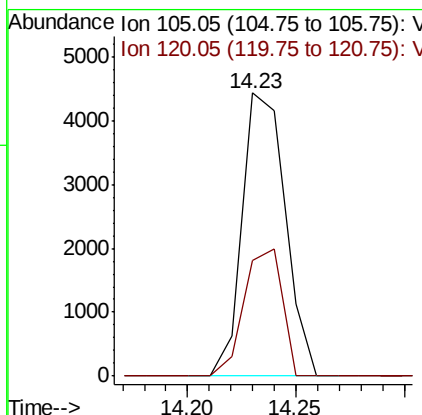
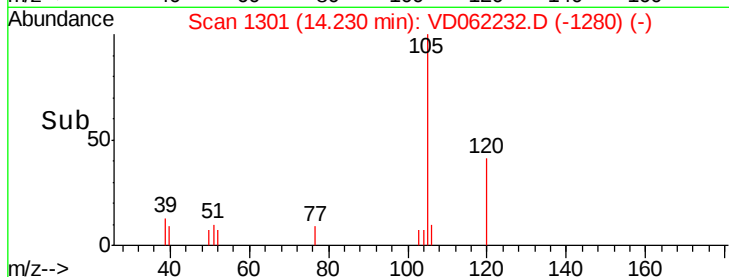
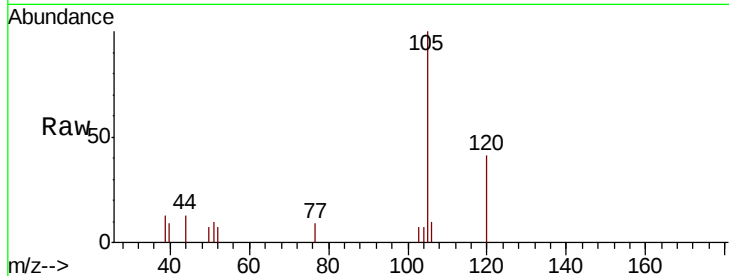




#84
 1,2,4-Trimethylbenzene
 Concen: 1.031 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. 0.01 min
 Lab File: VD062232.D
 Acq: 11 May 2019 12:50

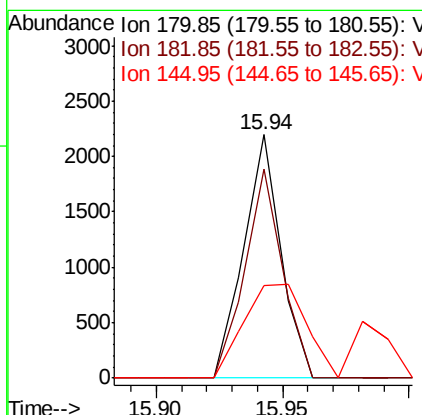
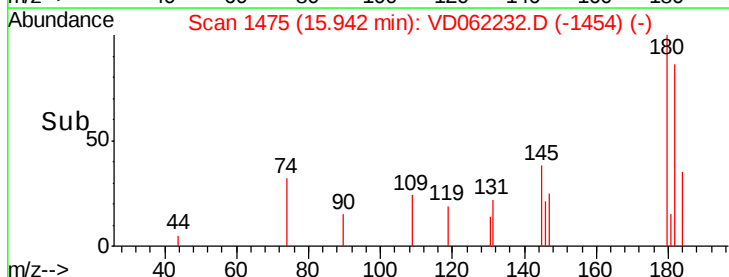
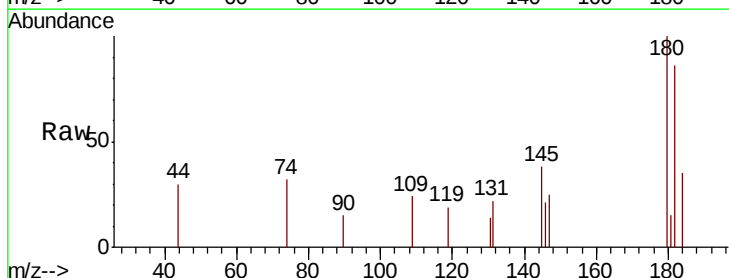
Instrument :
 MSVOA_D
 ClientSampleId :
 P-3A-OW(0-10)RE

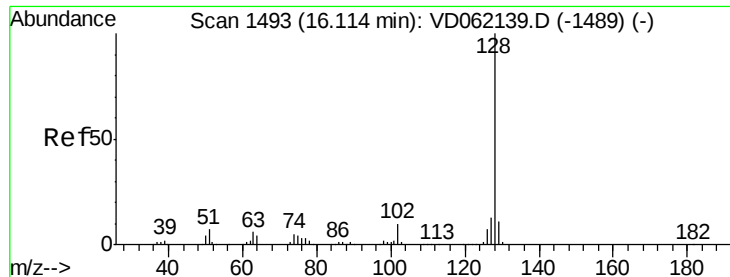
Tot Ion:105 Resp: 6109
 Ion Ratio Lower Upper
 105 100
 120 40.7 23.1 69.2



#93
 1,2,4-Trichlorobenzene
 Concen: 1.043 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.01 min
 Lab File: VD062232.D
 Acq: 11 May 2019 12:50

Tgt Ion:180 Resp: 2242
 Ion Ratio Lower Upper
 180 100
 182 85.8 49.3 147.8
 145 38.1 16.2 48.6

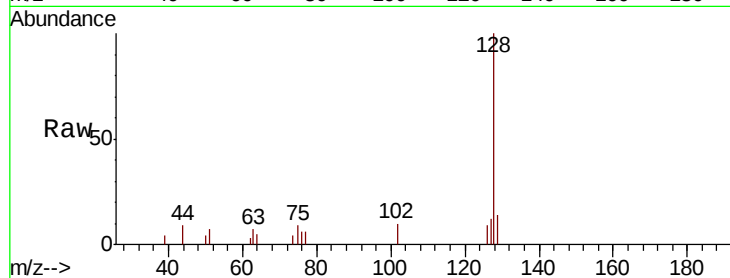




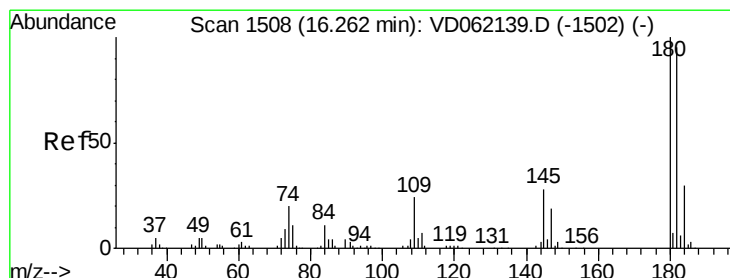
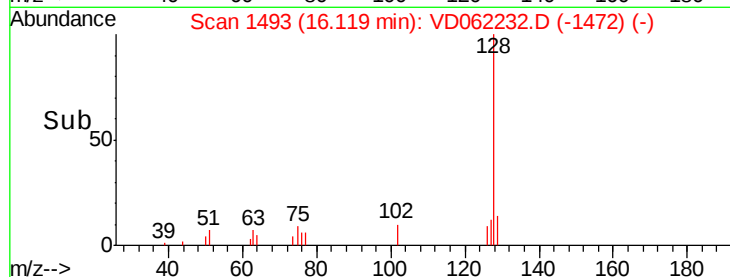
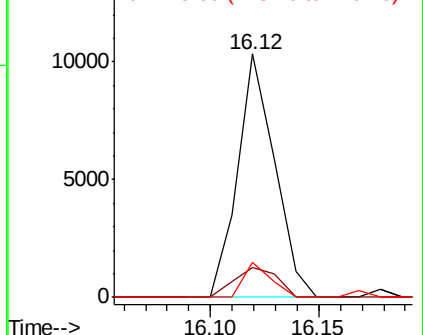
#95
Naphthalene
Concen: 4.101 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

Instrument :
MSVOA_D
ClientSampleId :
P-3A-OW(0-10)RE

Tot Ion:128 Resp: 12303
Ion Ratio Lower Upper
128 100
127 12.5 9.8 14.8
129 14.4 8.8 13.2#

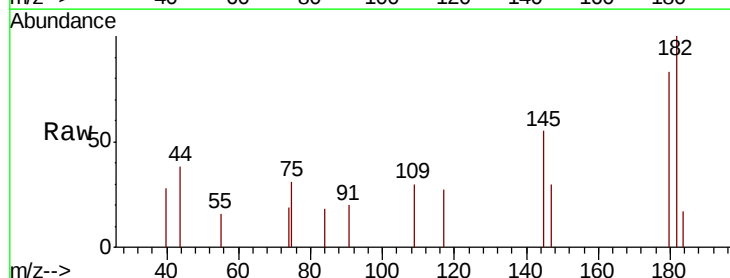


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.524 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.01 min
Lab File: VD062232.D
Acq: 11 May 2019 12:50

Tgt Ion:180 Resp: 2059
Ion Ratio Lower Upper
180 100
182 120.9 47.0 141.0
145 67.1 17.0 51.0#



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

