

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031119\
 Data File : VD061015.D
 Acq On : 11 Mar 2019 20:20
 Operator : VA/AP
 Sample : K1693-03RE
 Misc : 5.25g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-030719-BRE

Quant Time: Mar 12 05:44:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	684710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1326346	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	1093735	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	479093	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	357328	62.70	ug/l	0.00
Spiked Amount			Recovery	=	125.40%	
35) Dibromofluoromethane	6.93	113	544146	55.28	ug/l	0.00
Spiked Amount			Recovery	=	110.56%	
50) Toluene-d8	10.42	98	1328773	53.76	ug/l	0.02
Spiked Amount			Recovery	=	107.52%	
62) 4-Bromofluorobenzene	13.56	95	482771	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	

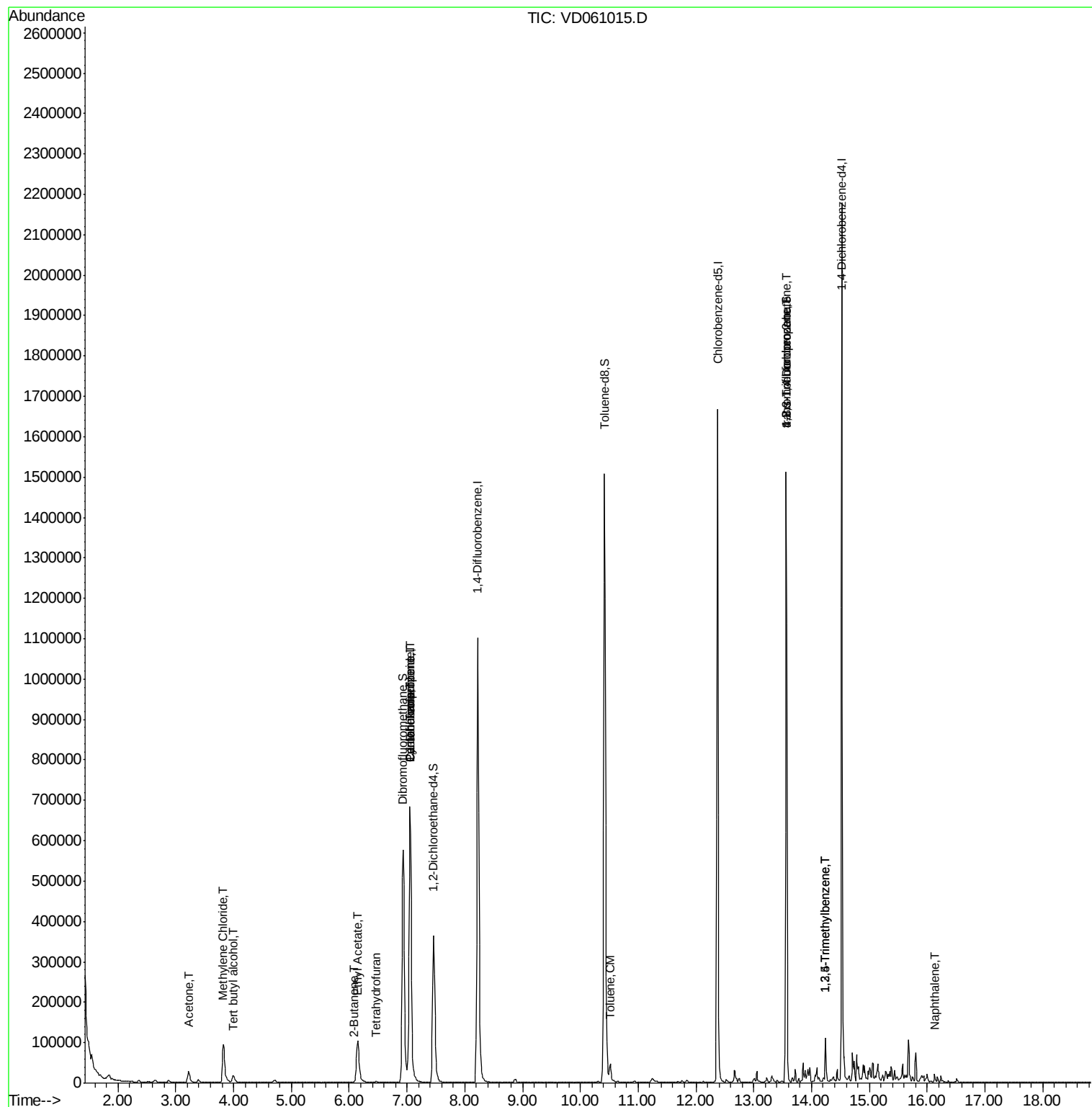
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	179	Below Cal	#	8
11) Tert butyl alcohol	3.99	59	16180	44.593	ug/l #	75
16) Acetone	3.22	43	53354	32.737	ug/l	94
20) Methylene Chloride	3.82	84	70980	5.391	ug/l	96
25) 2-Butanone	6.08	43	4756	2.572	ug/l #	55
29) Tetrahydrofuran	6.46	42	2172	2.163	ug/l #	66
31) Cyclohexane	7.05	56	12814	1.271	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	52730	4.612	ug/l #	46
37) Ethyl Acetate	6.15	43	5744	1.071	ug/l #	1
38) Carbon Tetrachloride	7.05	117	66763	5.301	ug/l #	15
52) Toluene	10.52	92	21953	1.236	ug/l	85
76) 1,2,3-Trichloropropane	13.56	75	137343	19.926	ug/l #	44
80) 1,3,5-Trimethylbenzene	14.24	105	55441	2.115	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.56	75	178046	87.617	ug/l #	17
84) 1,2,4-Trimethylbenzene	14.24	105	55441	2.115	ug/l	92
95) Naphthalene	16.13	128	12430	1.344	ug/l	95

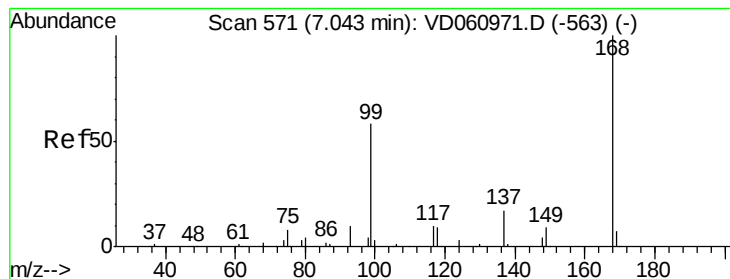
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031119\
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QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

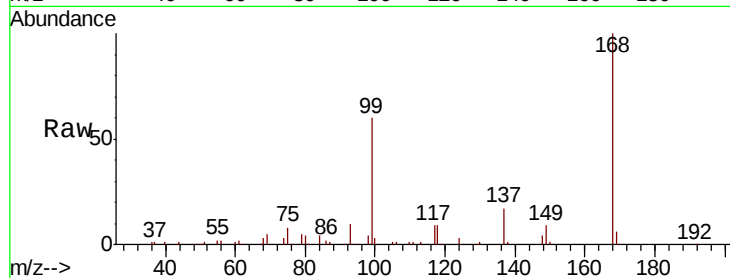
Instrument :
MSVOA_D
ClientSampleId :
OR-01-030719-BRE

Tot Ion:168 Resp: 684710

Ion Ratio Lower Upper

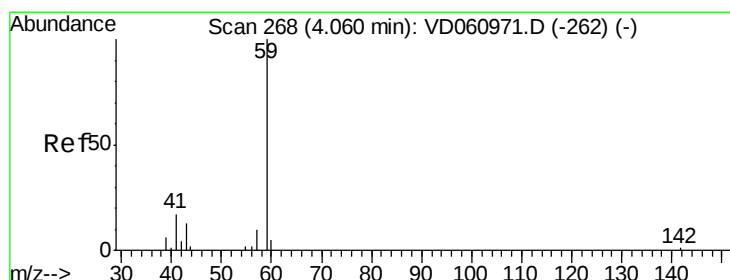
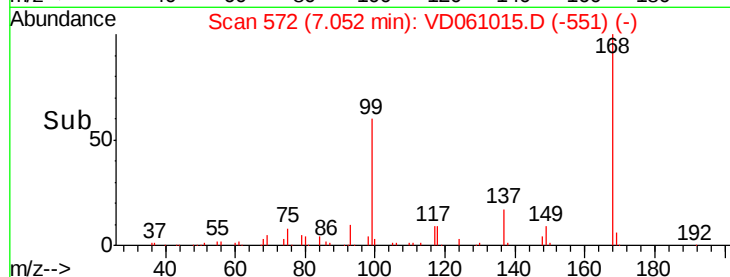
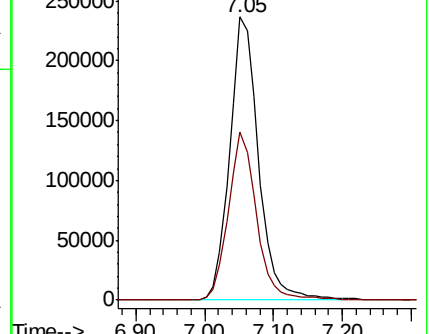
168 100

99 59.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 44.593 ug/l

RT: 3.99 min Scan# 261

Delta R.T. -0.07 min

Lab File: VD061015.D

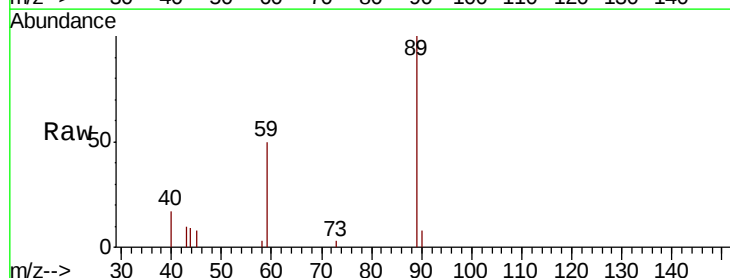
Acq: 11 Mar 2019 20:20

Tgt Ion: 59 Resp: 16180

Ion Ratio Lower Upper

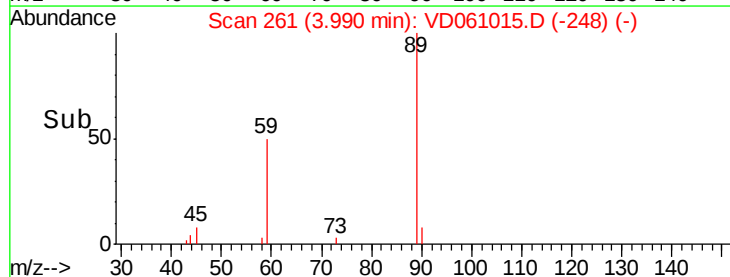
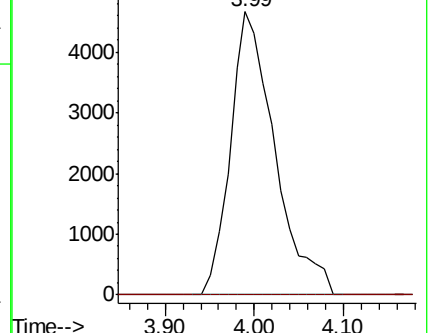
59 100

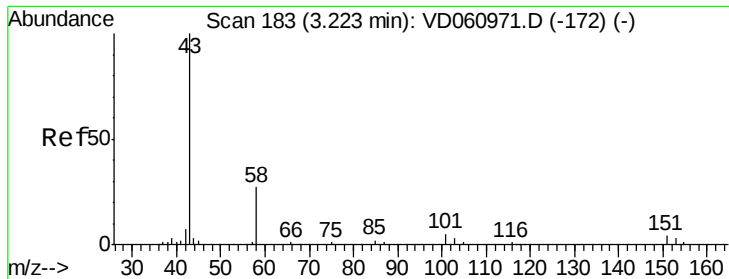
57 0.0 7.1 10.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 32.737 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

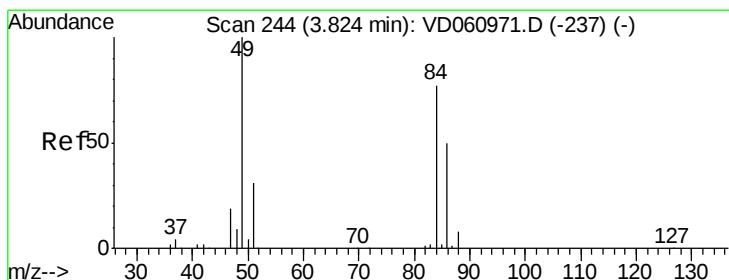
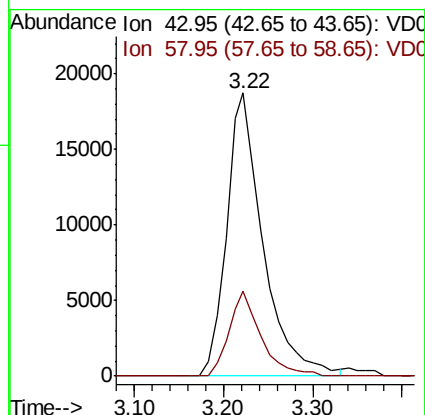
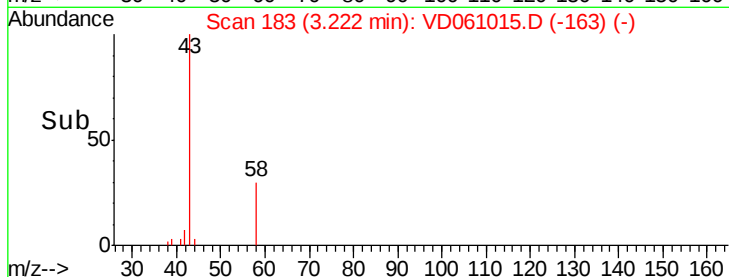
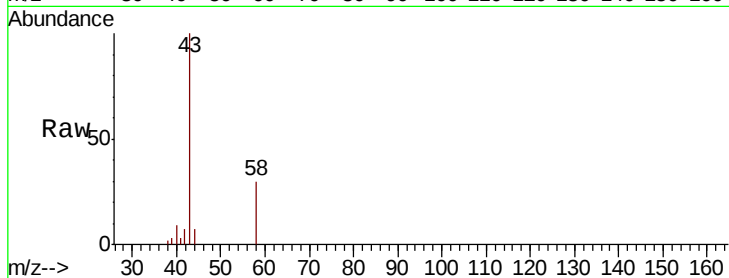
OR-01-030719-BRE

Tot Ion: 43 Resp: 53354

Ion Ratio Lower Upper

43 100

58 29.9 21.6 32.4



#20

Methylene Chloride

Concen: 5.391 ug/l

RT: 3.82 min Scan# 244

Delta R.T. -0.00 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Tgt Ion: 84 Resp: 70980

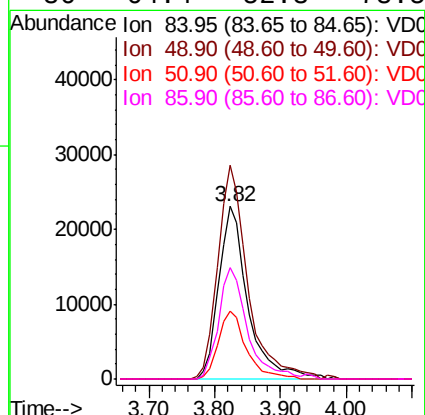
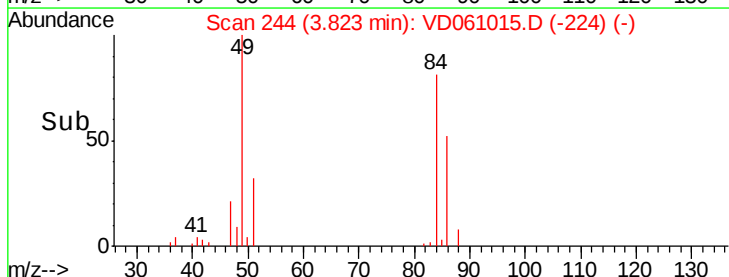
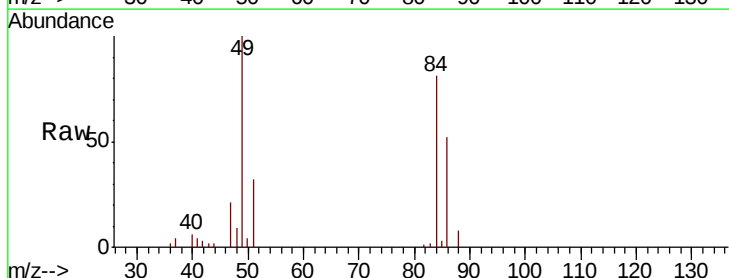
Ion Ratio Lower Upper

84 100

49 123.6 104.2 156.2

51 39.3 32.3 48.5

86 64.4 52.3 78.5





#25

2-Butanone

Concen: 2.572 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

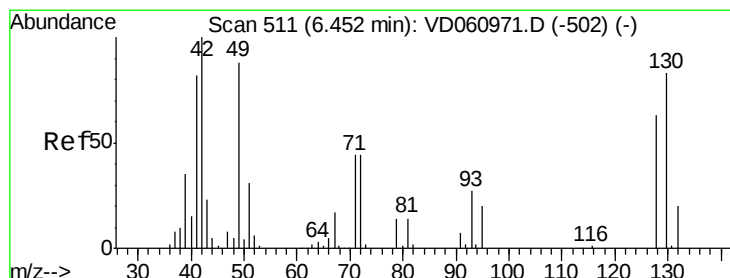
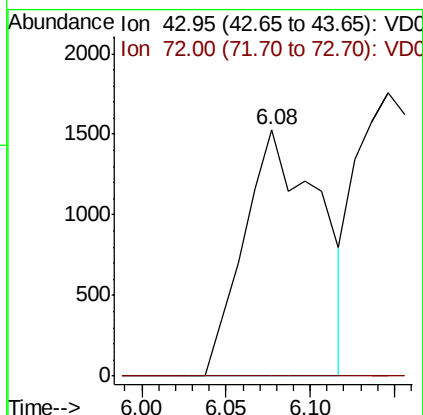
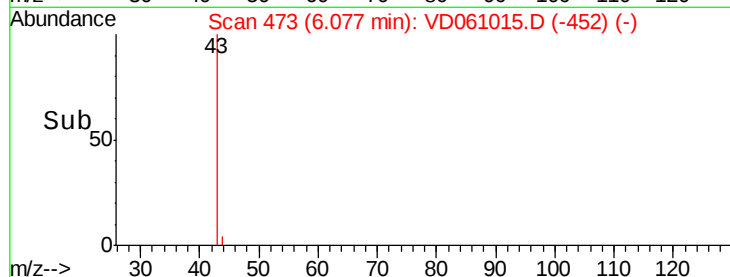
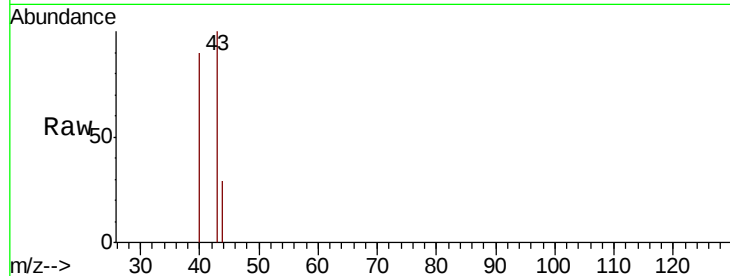
OR-01-030719-BRE

Tot Ion: 43 Resp: 4756

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



#29

Tetrahydrofuran

Concen: 2.163 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

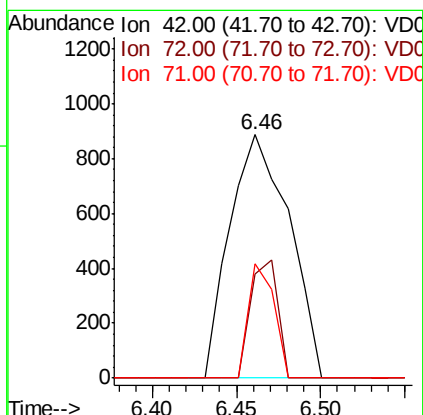
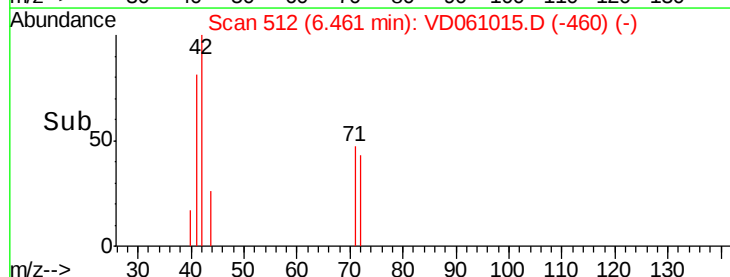
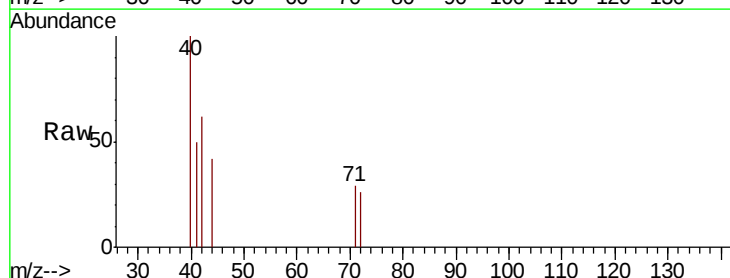
Tgt Ion: 42 Resp: 2172

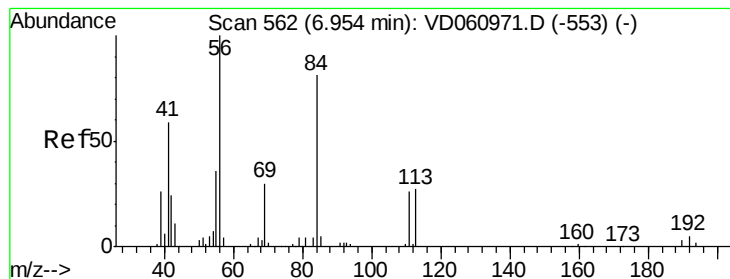
Ion Ratio Lower Upper

42 100

72 22.0 34.5 51.7#

71 20.1 33.8 50.6#





#31

Cvclohexane

Concen: 1.271 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

OR-01-030719-BRE

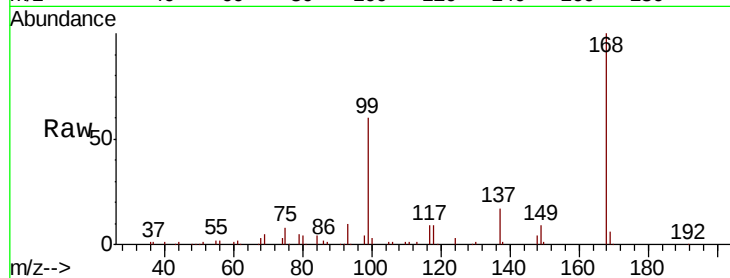
Tot Ion: 56 Resp: 12814

Ion Ratio Lower Upper

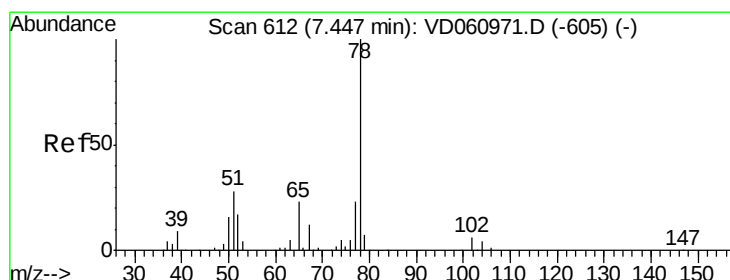
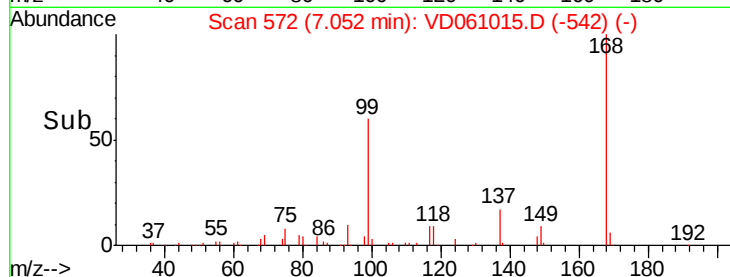
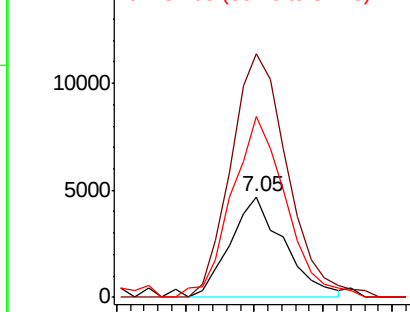
56 100

69 242.3 24.0 36.0#

84 179.6 65.8 98.6#



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: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061015.D

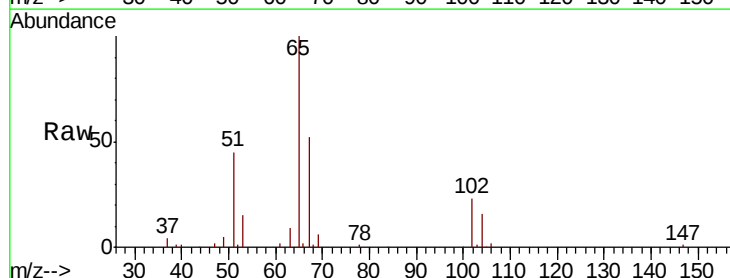
Acq: 11 Mar 2019 20:20

Tgt Ion: 65 Resp: 357328

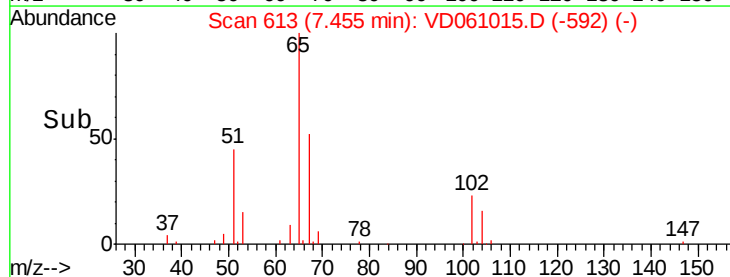
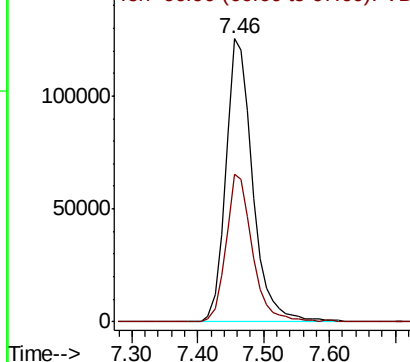
Ion Ratio Lower Upper

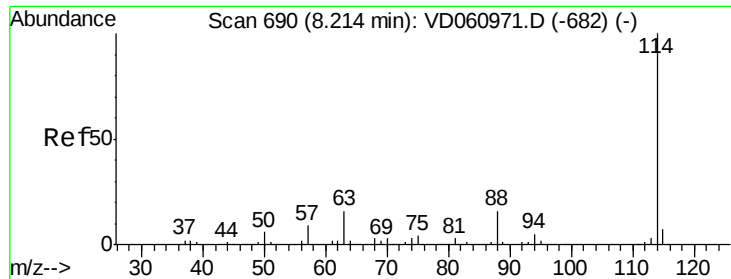
65 100

67 52.1 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

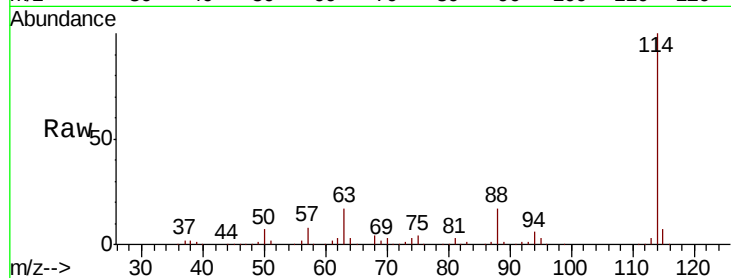




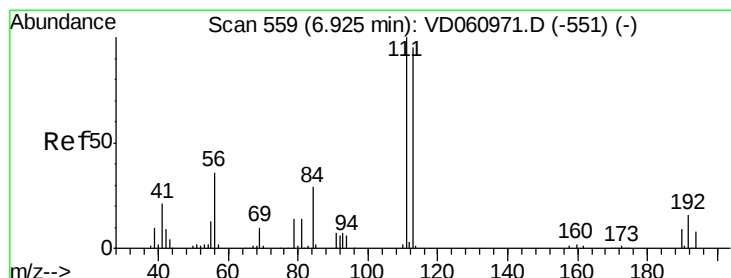
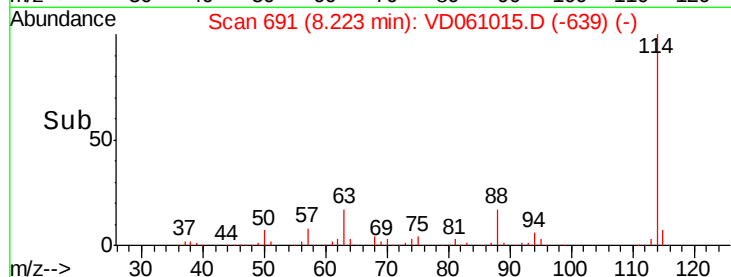
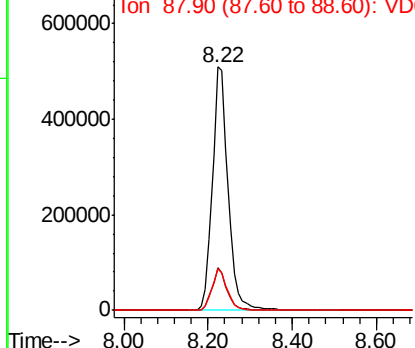
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD061015.D
 Acq: 11 Mar 2019 20:20

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-030719-BRE

Tot Ion:114 Resp: 1326346
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 31.4
 88 17.1 0.0 33.0

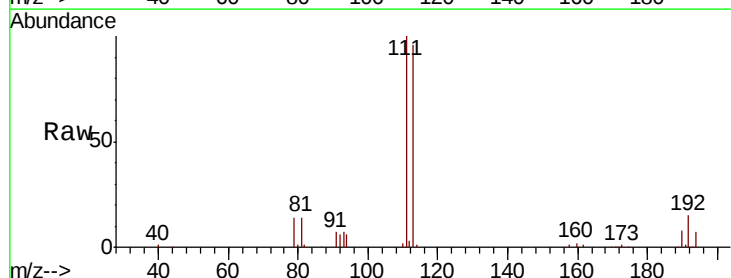


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

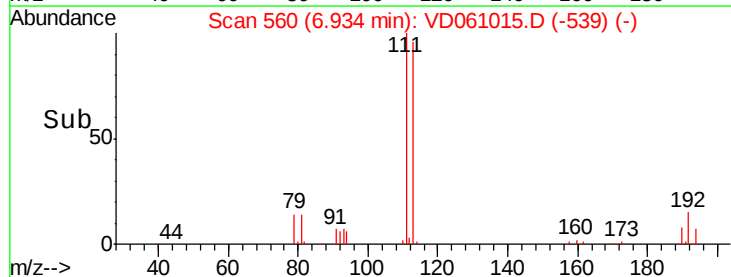
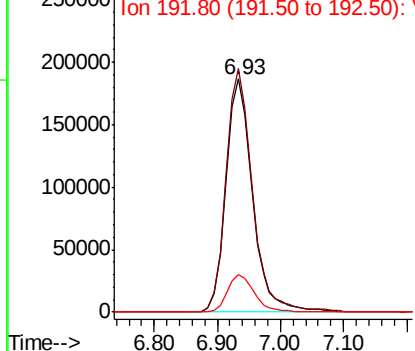


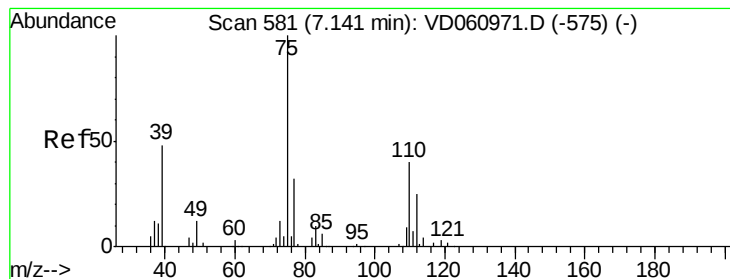
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD061015.D
 Acq: 11 Mar 2019 20:20

Tgt Ion:113 Resp: 544146
 Ion Ratio Lower Upper
 113 100
 111 104.6 84.2 126.4
 192 16.0 13.1 19.7



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: 4.612 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

OR-01-030719-BRE

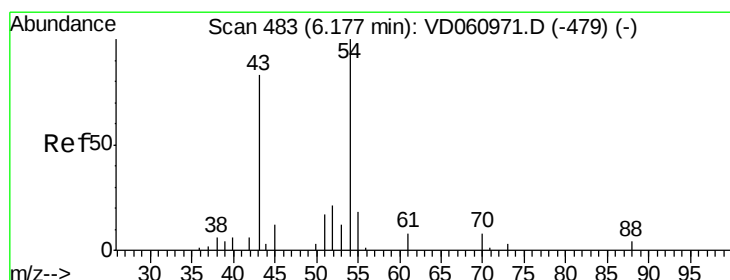
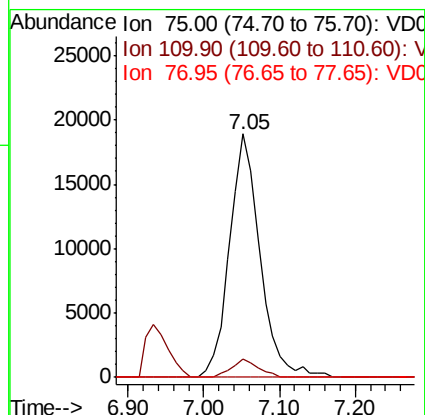
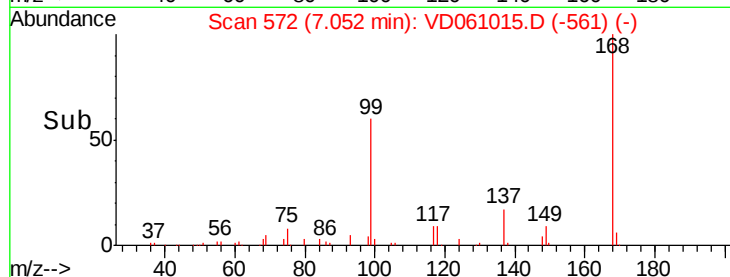
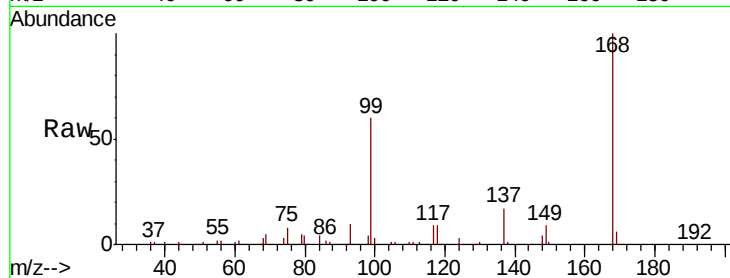
Tot Ion: 75 Resp: 52730

Ion Ratio Lower Upper

75 100

110 7.5 19.7 59.1#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 1.071 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

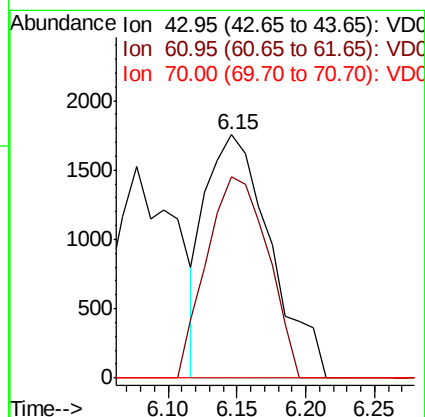
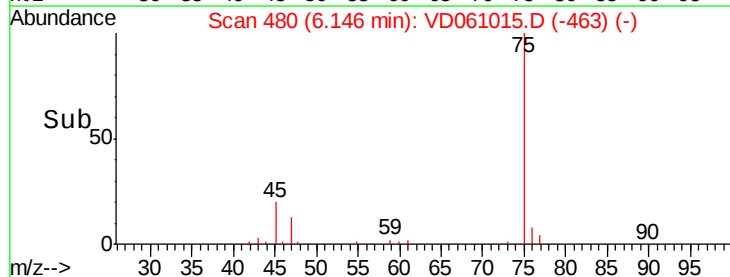
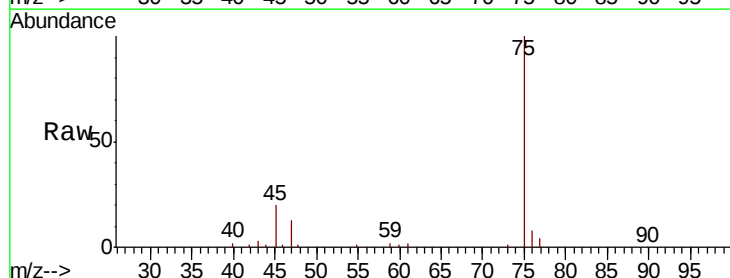
Tgt Ion: 43 Resp: 5744

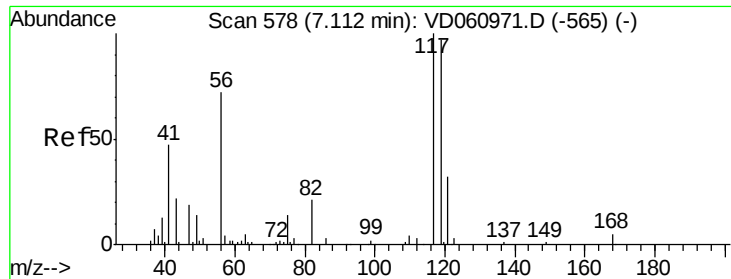
Ion Ratio Lower Upper

43 100

61 82.7 13.7 20.5#

70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 5.301 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

OR-01-030719-BRE

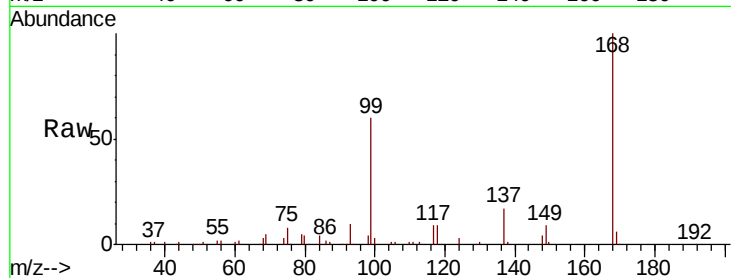
Tot Ion:117 Resp: 66763

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.8#

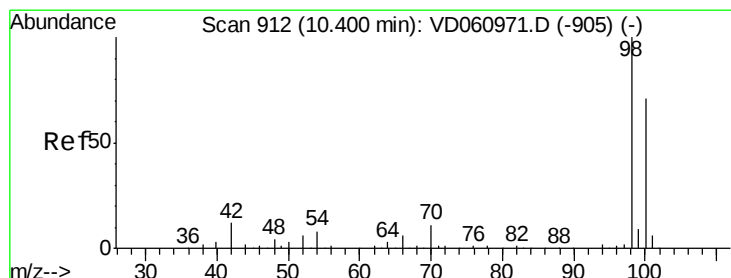
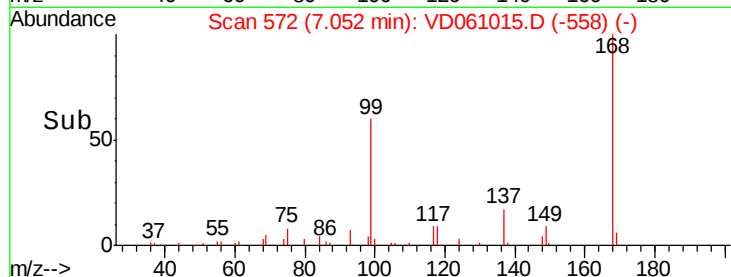
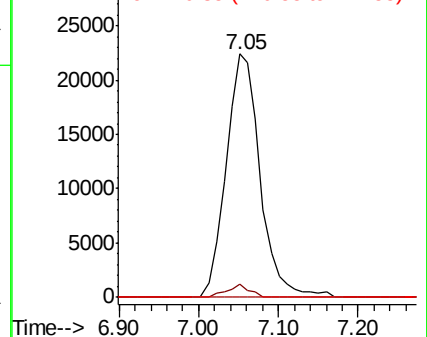
121 0.0 25.3 37.9#



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: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD061015.D

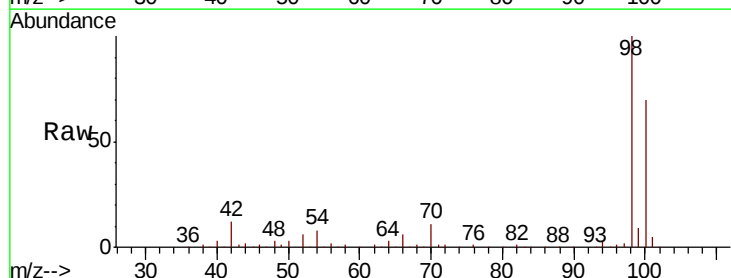
Acq: 11 Mar 2019 20:20

Tgt Ion: 98 Resp: 1328773

Ion Ratio Lower Upper

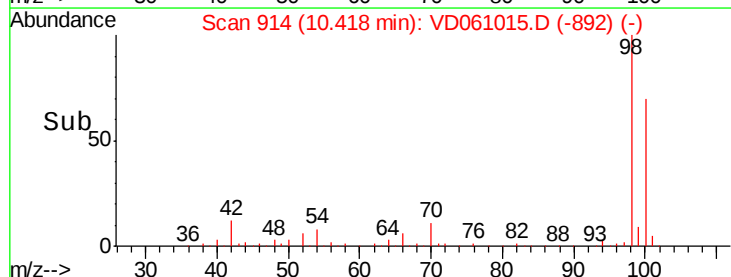
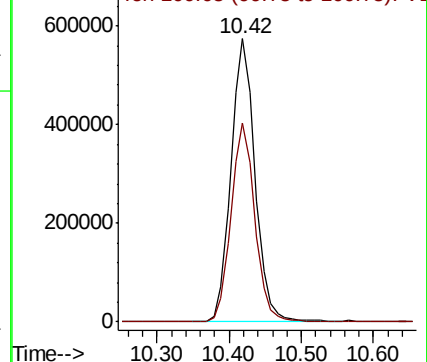
98 100

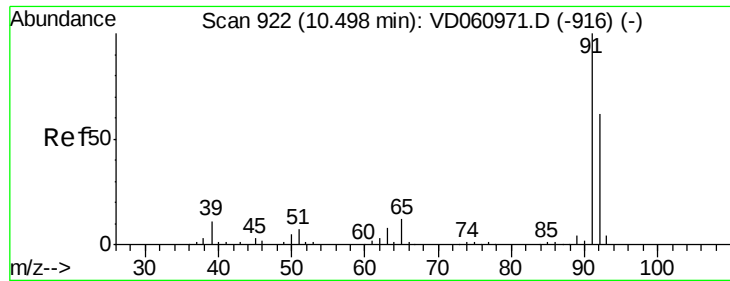
100 70.2 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.236 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

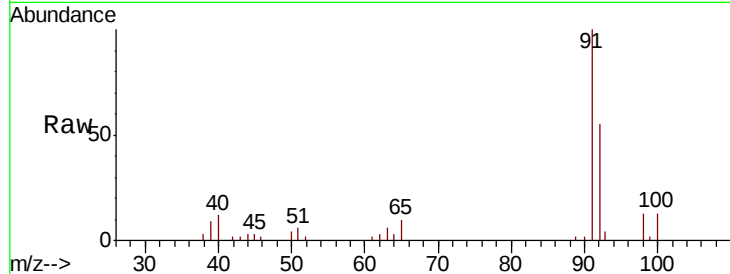
OR-01-030719-BRE

Tot Ion: 92 Resp: 21953

Ion Ratio Lower Upper

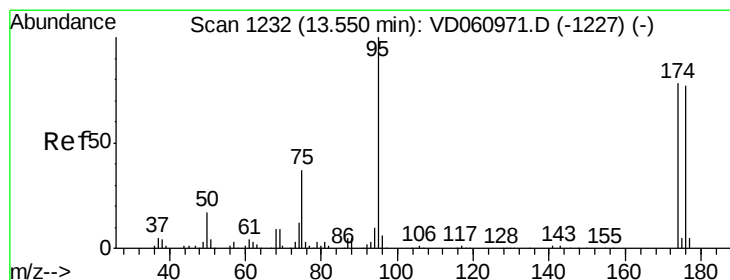
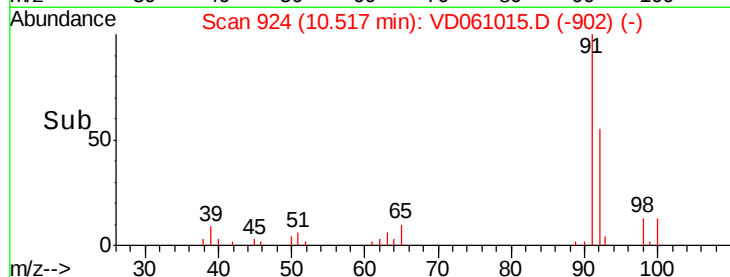
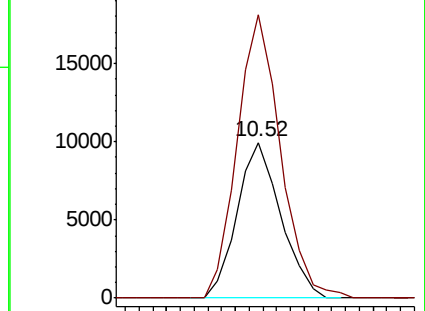
92 100

91 181.9 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

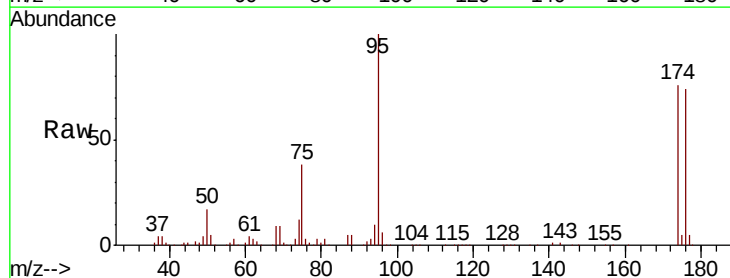
Tgt Ion: 95 Resp: 482771

Ion Ratio Lower Upper

95 100

174 75.5 0.0 155.6

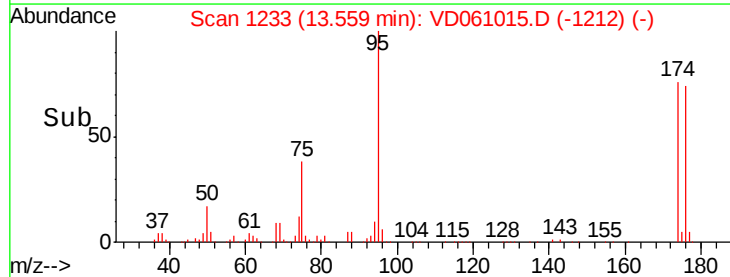
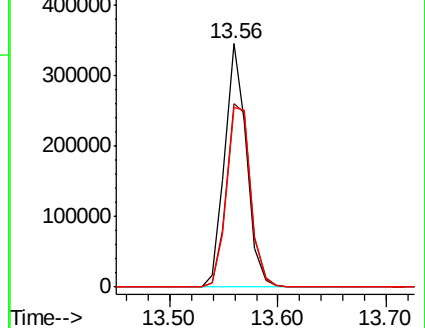
176 74.0 0.0 153.8

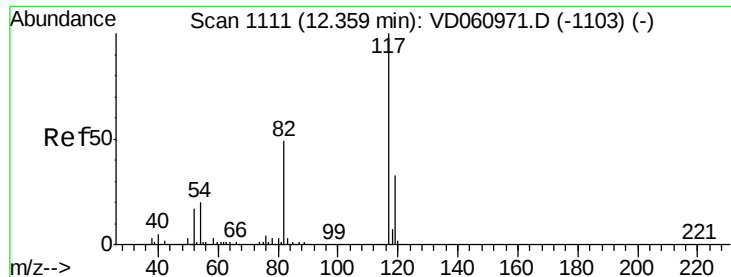


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

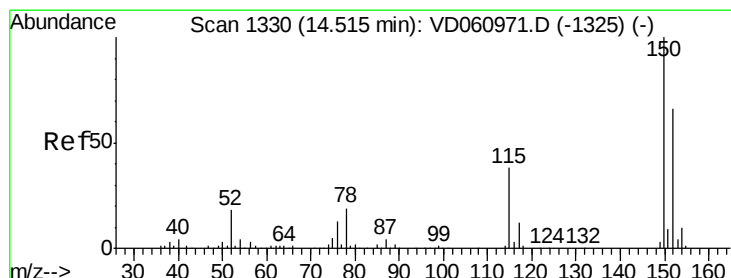
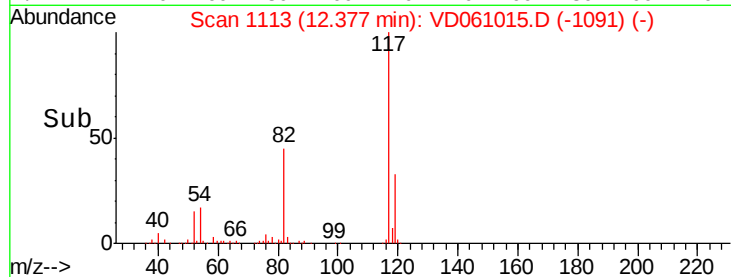
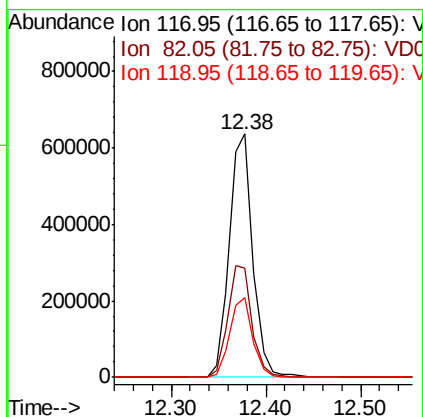
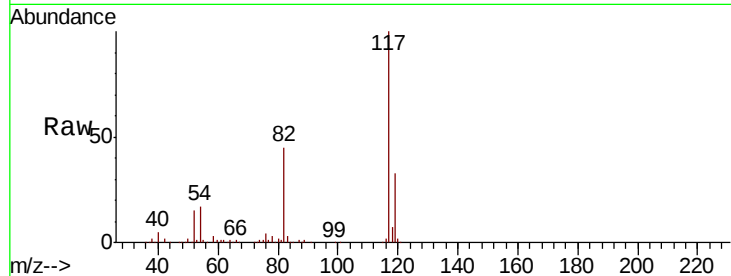




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061015.D
Acq: 11 Mar 2019 20:20

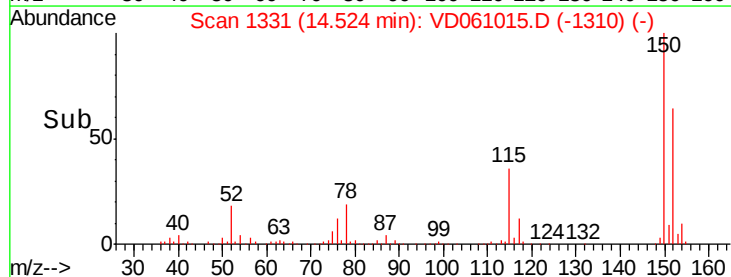
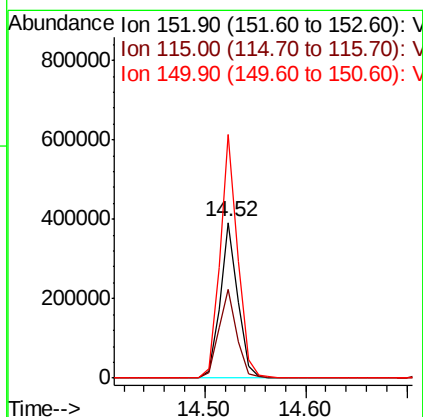
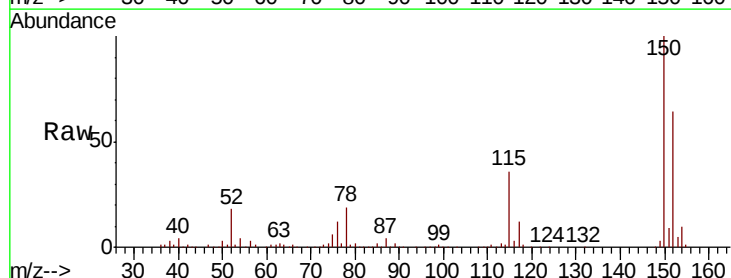
Instrument :
MSVOA_D
ClientSampleId :
OR-01-030719-BRE

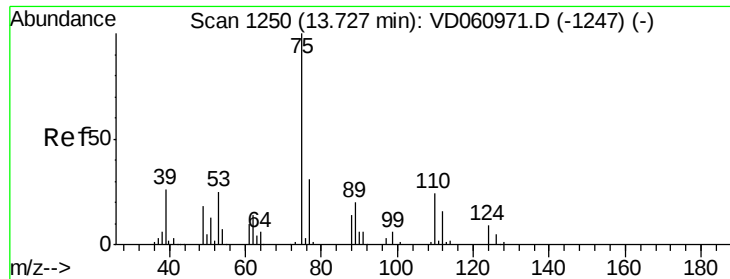
Tot Ion:117 Resp: 1093735
Ion Ratio Lower Upper
117 100
82 44.8 38.9 58.3
119 32.7 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061015.D
Acq: 11 Mar 2019 20:20

Tgt Ion:152 Resp: 479093
Ion Ratio Lower Upper
152 100
115 57.1 28.6 85.9
150 156.5 0.0 310.6

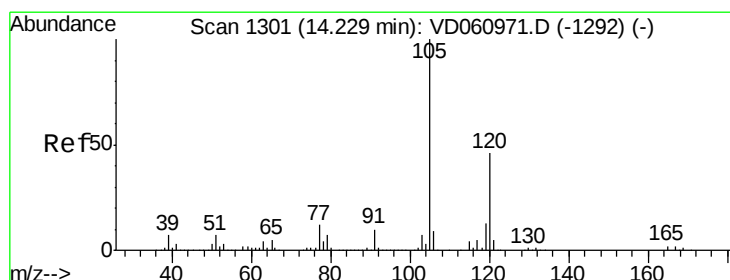
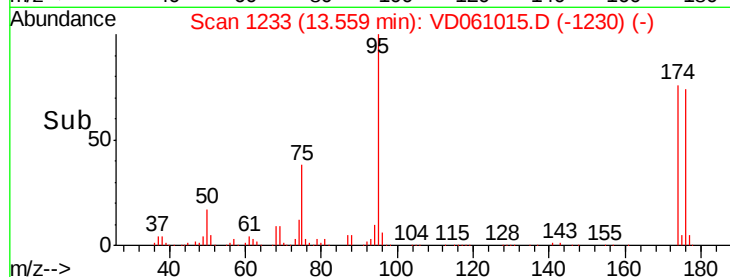
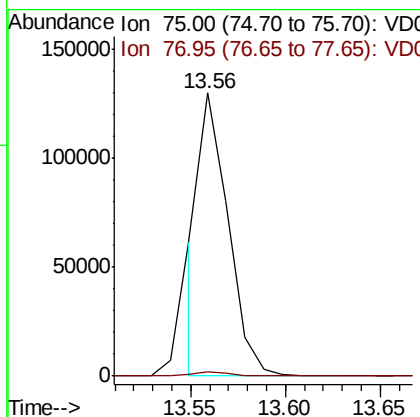
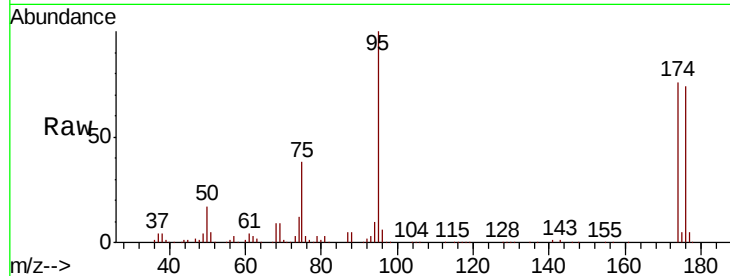




#76
 1,2,3-Trichloropropane
 Concen: 19.926 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.17 min
 Lab File: VD061015.D
 Acq: 11 Mar 2019 20:20

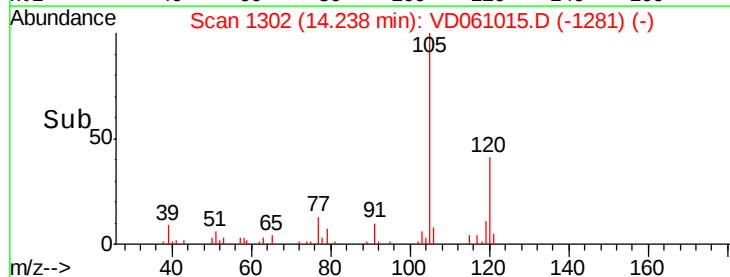
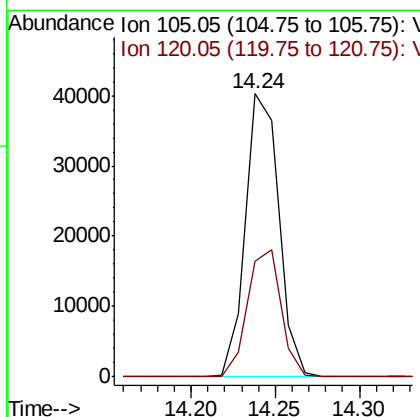
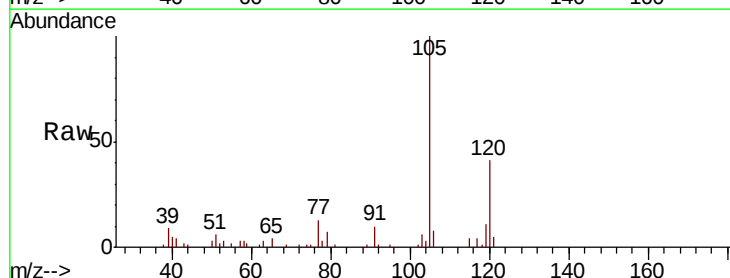
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-030719-BRE

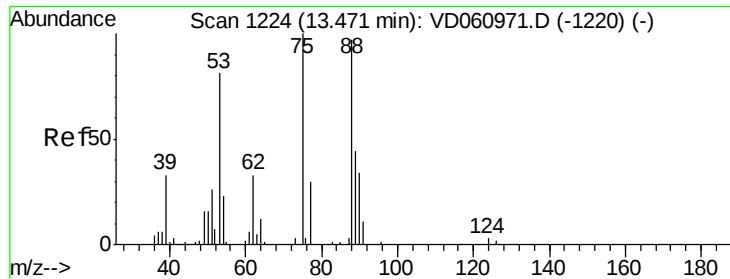
Tot Ion: 75 Resp: 137343
 Ion Ratio Lower Upper
 75 100
 77 1.4 16.6 49.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.115 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061015.D
 Acq: 11 Mar 2019 20:20

Tgt Ion:105 Resp: 55441
 Ion Ratio Lower Upper
 105 100
 120 40.7 22.9 68.5





#81

trans-1,4-Dichloro-2-butene

Concen: 87.617 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

OR-01-030719-BRE

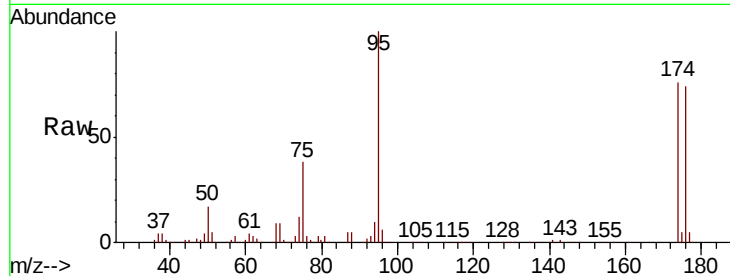
Tot Ion: 75 Resp: 178046

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

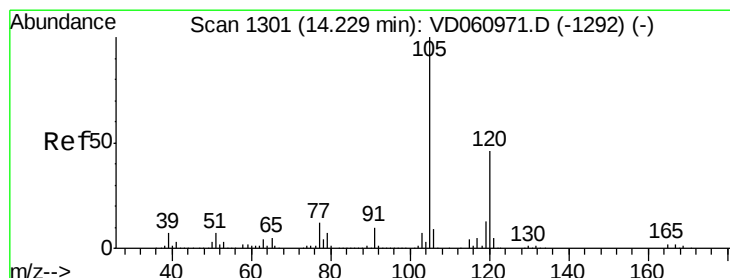
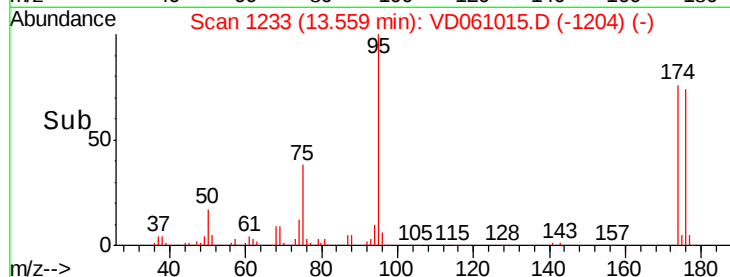
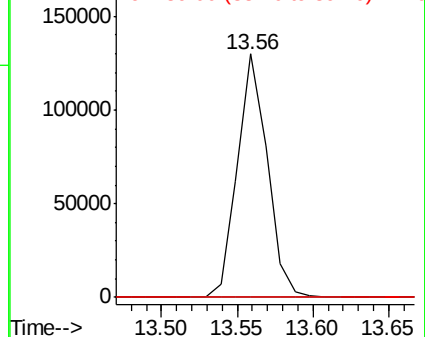
89 0.0 34.8 52.2#



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: 2.115 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061015.D

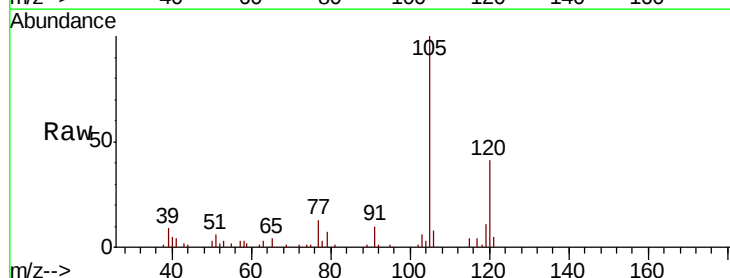
Acq: 11 Mar 2019 20:20

Tgt Ion:105 Resp: 55441

Ion Ratio Lower Upper

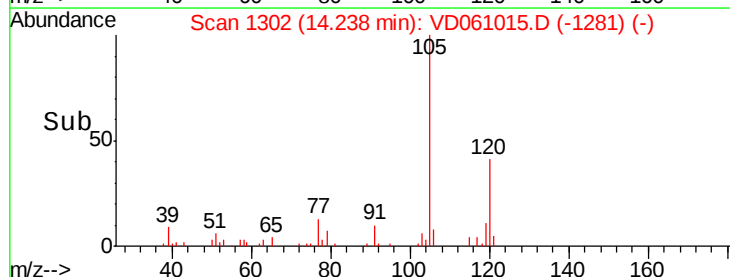
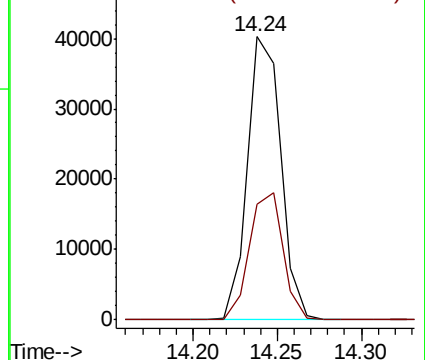
105 100

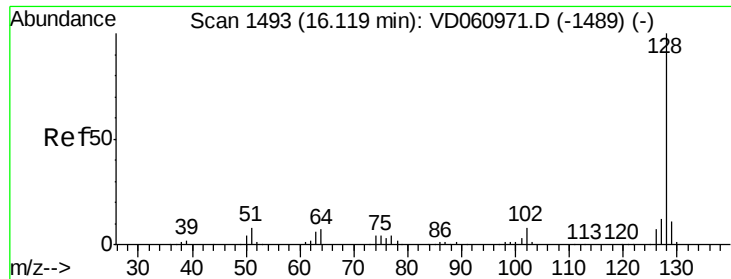
120 40.7 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 1.344 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD061015.D

Acq: 11 Mar 2019 20:20

Instrument :

MSVOA_D

ClientSampleId :

OR-01-030719-BRE

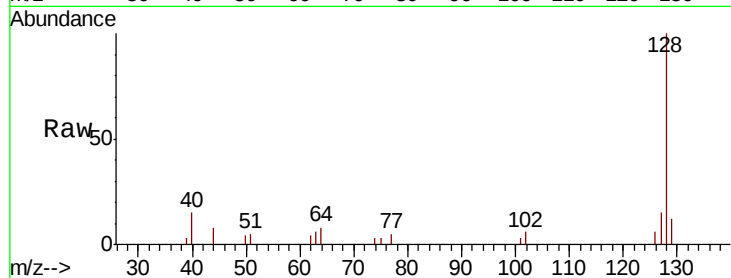
Tot Ion:128 Resp: 12430

Ion Ratio Lower Upper

128 100

127 14.6 9.8 14.8

129 11.7 8.5 12.7



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

