

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063244.D
 Acq On : 30 Jul 2019 16:19
 Operator : VA/AP
 Sample : K4049-02RE
 Misc : 4.06g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-2

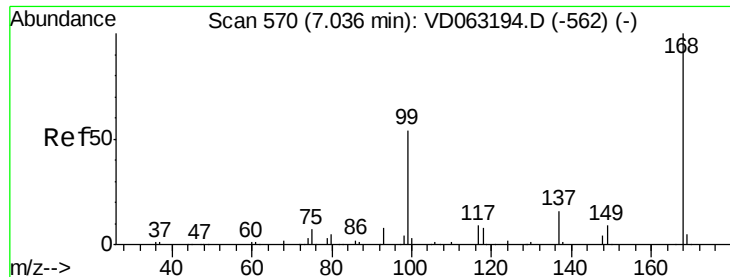
Quant Time: Jul 31 04:56:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	889058	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1168875	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	877695	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	323958	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	435335	44.13	ug/l	0.01
Spiked Amount			Recovery	=	88.26%	
35) Dibromofluoromethane	6.92	113	471819	47.28	ug/l	0.01
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	10.40	98	875654	39.21	ug/l	0.00
Spiked Amount			Recovery	=	78.42%	
62) 4-Bromofluorobenzene	13.55	95	304455	29.91	ug/l	0.00
Spiked Amount			Recovery	=	59.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.04	59	1644	3.797	ug/l #	69
16) Acetone	3.22	43	3332	1.734	ug/l #	62
20) Methylene Chloride	3.82	84	13897	1.789	ug/l #	76
25) 2-Butanone	6.17	43	5951	3.085	ug/l #	56
29) Tetrahydrofuran	6.46	42	1052	1.152	ug/l #	69
31) Cyclohexane	7.04	56	18630	2.120	ug/l #	4
36) 1,1-Dichloropropene	7.04	75	65707	6.160	ug/l #	51
37) Ethyl Acetate	6.17	43	5951	1.242	ug/l #	1
38) Carbon Tetrachloride	7.04	117	83554	5.203	ug/l #	13
51) 4-Methyl-2-Pentanone	10.39	43	4386	1.053	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	148837	137.749	ug/l #	3

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063244.D

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MSVOA_D

ClientSampleId :

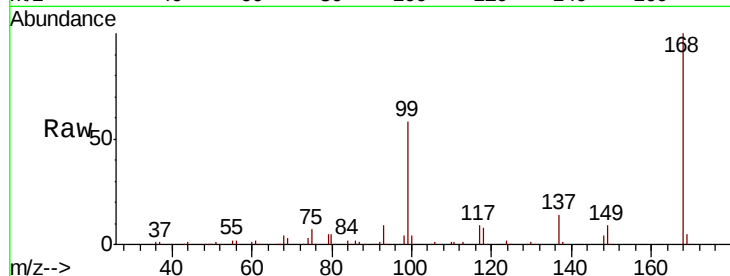
SP-2

Tot Ion:168 Resp: 889058

Ion Ratio Lower Upper

168 100

99 58.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

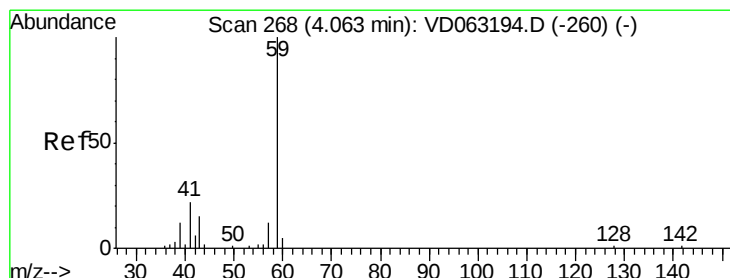
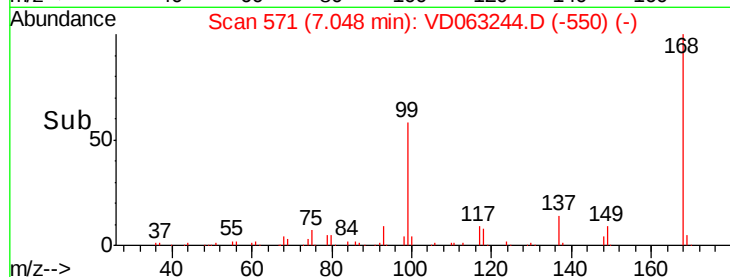
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 3.797 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.02 min

Lab File: VD063244.D

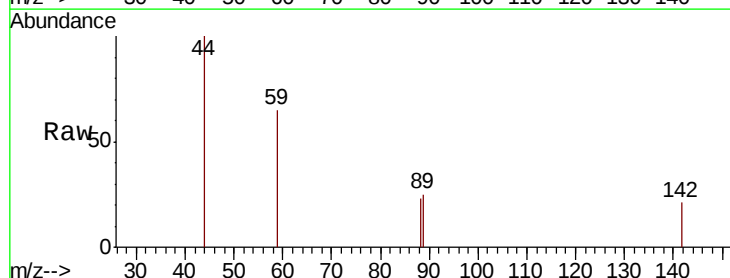
Acq: 30 Jul 2019 16:19

Tgt Ion: 59 Resp: 1644

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3000

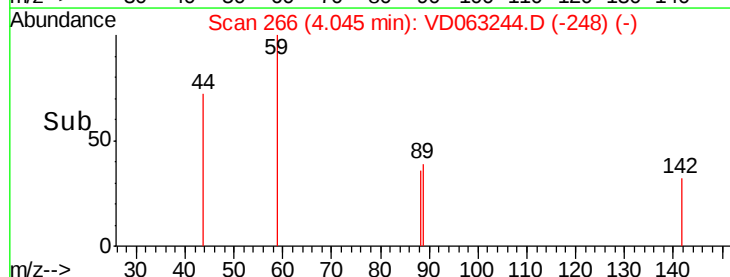
2000

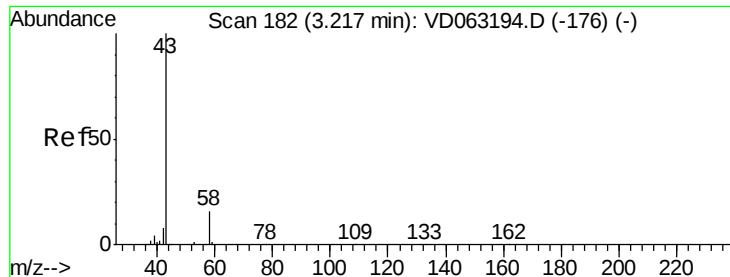
1000

0

Time-->

4.05 4.10





#16

Acetone

Concen: 1.734 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

Instrument :

MSVOA_D

ClientSampleId :

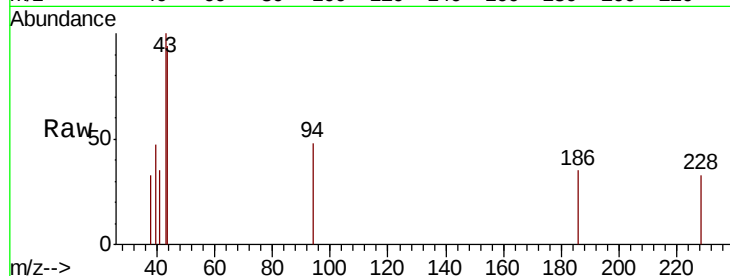
SP-2

Tot Ion: 43 Resp: 3332

Ion Ratio Lower Upper

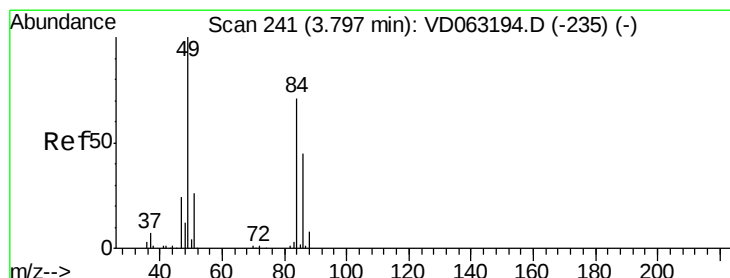
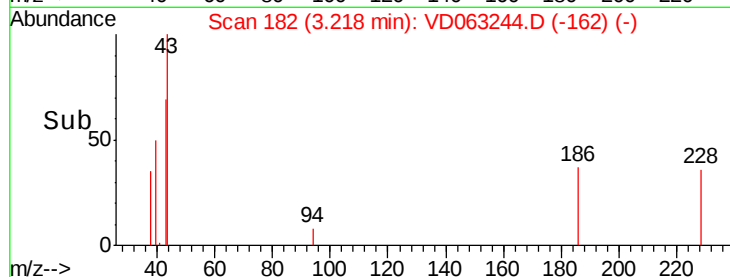
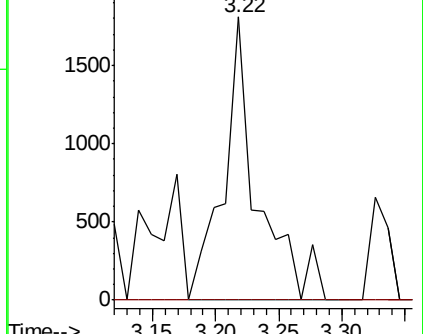
43 100

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



#20

Methylene Chloride

Concen: 1.789 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

Tgt Ion: 84 Resp: 13897

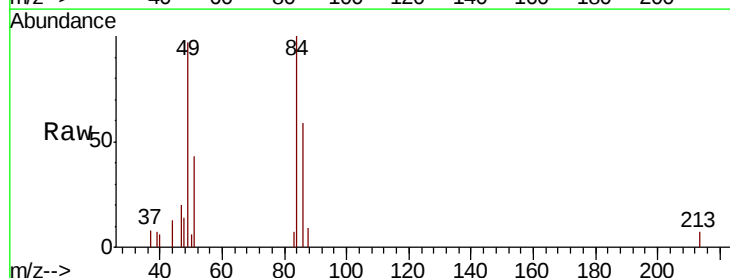
Ion Ratio Lower Upper

84 100

49 97.1 112.5 168.7#

51 43.4 29.6 44.4

86 58.6 50.4 75.6

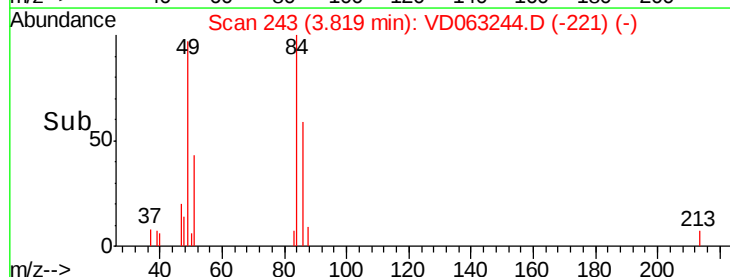
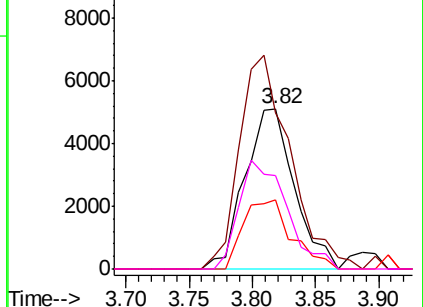


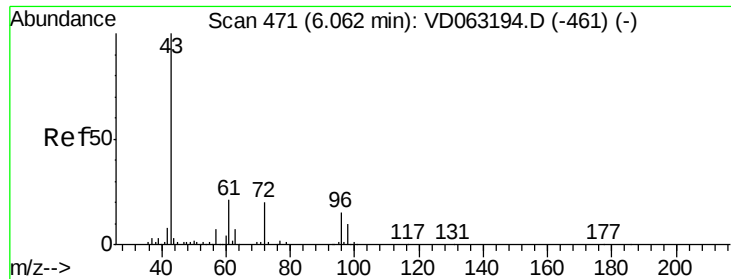
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 3.085 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.11 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

Instrument :

MSVOA_D

ClientSampled :

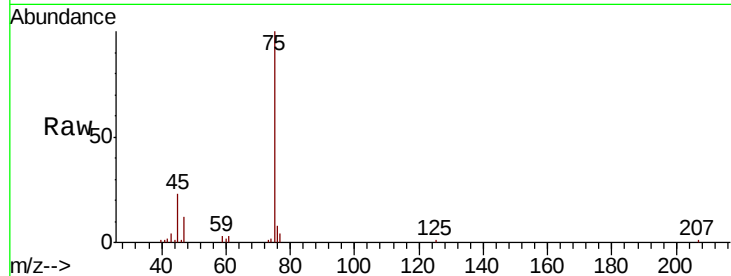
SP-2

Tot Ion: 43 Resp: 5951

Ion Ratio Lower Upper

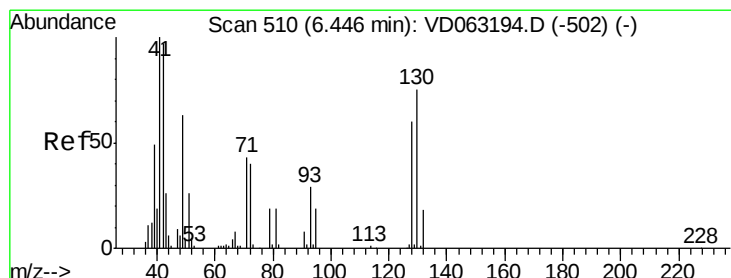
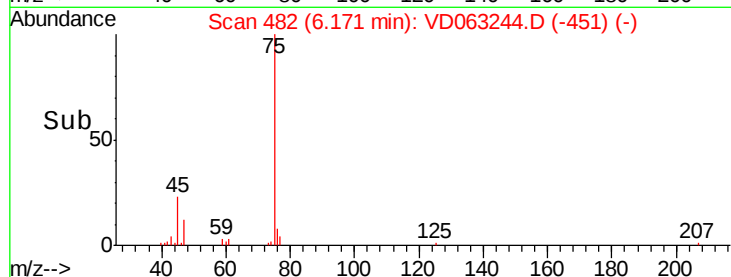
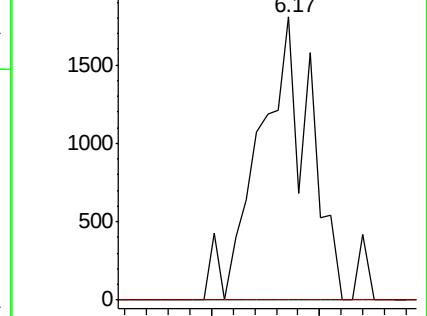
43 100

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



#29

Tetrahydrofuran

Concen: 1.152 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

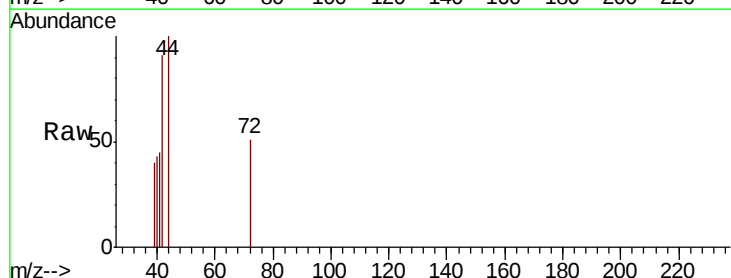
Tgt Ion: 42 Resp: 1052

Ion Ratio Lower Upper

42 100

72 22.0 33.4 50.2#

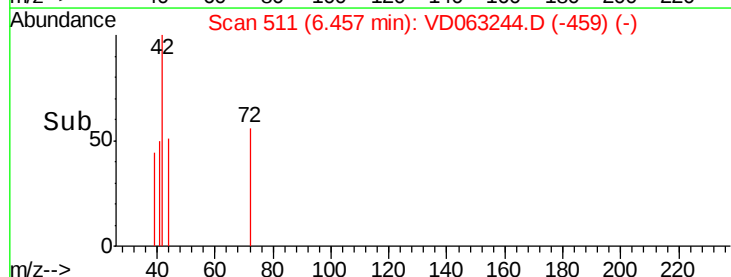
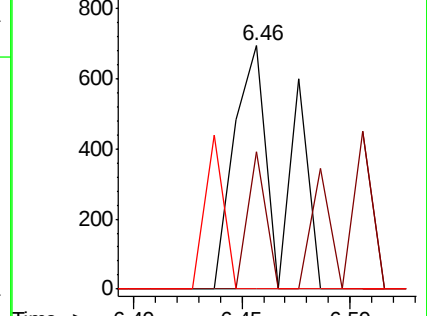
71 24.6 35.7 53.5#

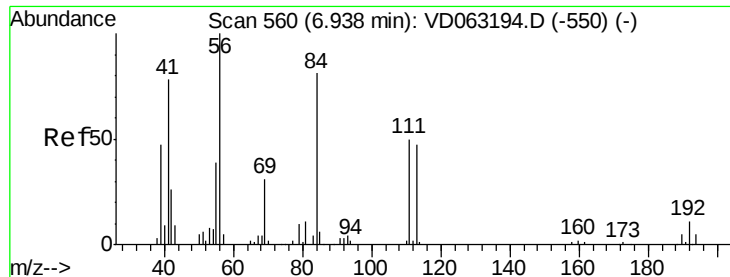


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

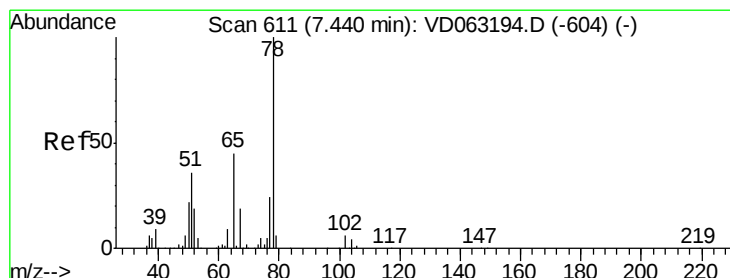
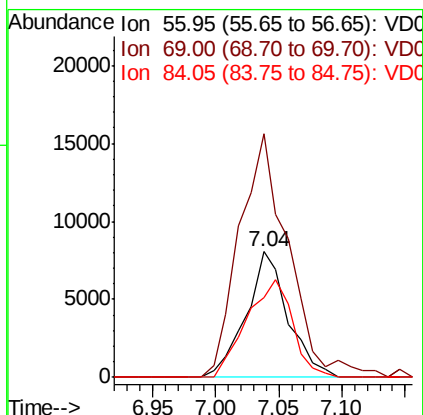
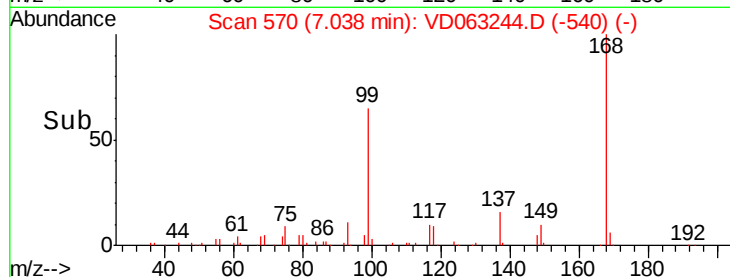
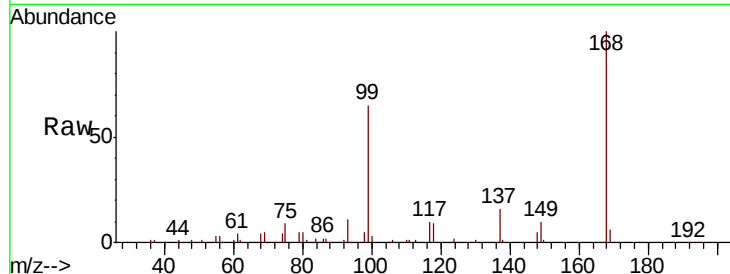




#31
Cyclohexane
Concen: 2.120 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

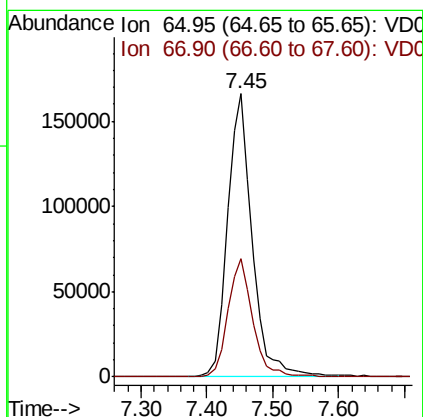
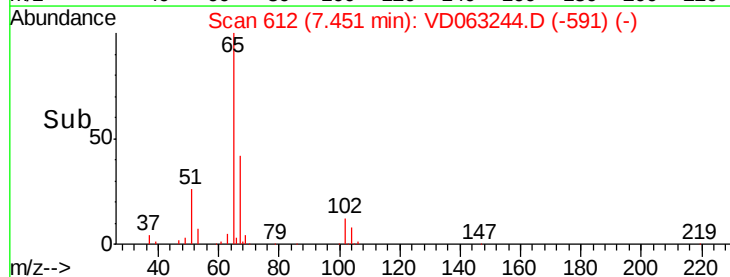
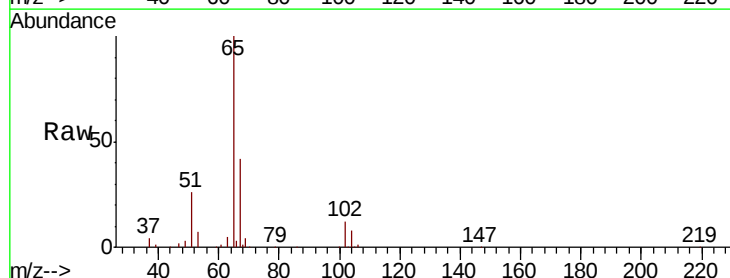
Instrument :
MSVOA_D
ClientSampleId :
SP-2

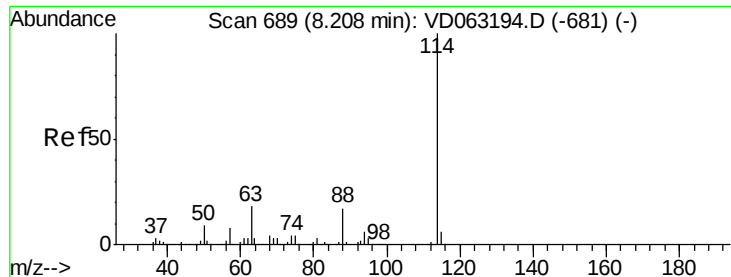
Tot Ion: 56 Resp: 18630
Ion Ratio Lower Upper
56 100
69 193.7 24.5 36.7#
84 63.8 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 44.129 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

Tgt Ion: 65 Resp: 435335
Ion Ratio Lower Upper
65 100
67 41.7 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

Instrument :

MSVOA_D

ClientSampleId :

SP-2

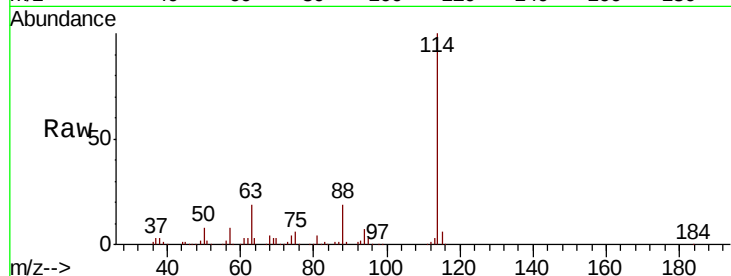
Tot Ion:114 Resp: 1168875

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.2

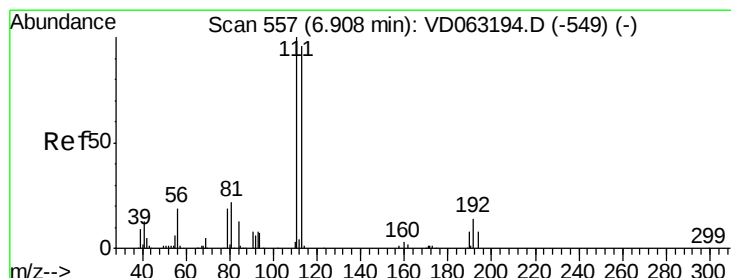
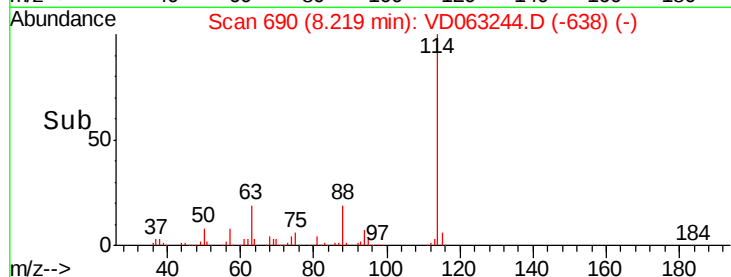
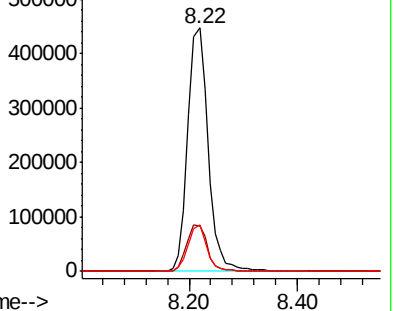
88 19.2 0.0 34.6



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: 47.278 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

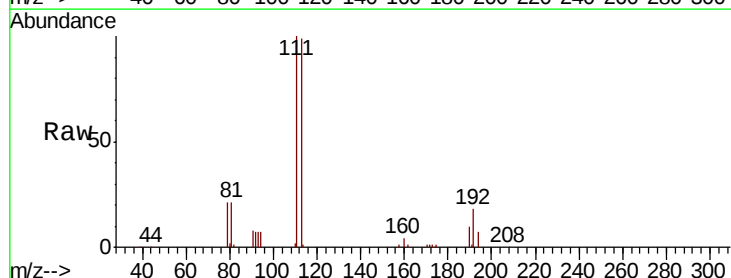
Tgt Ion:113 Resp: 471819

Ion Ratio Lower Upper

113 100

111 100.6 83.2 124.8

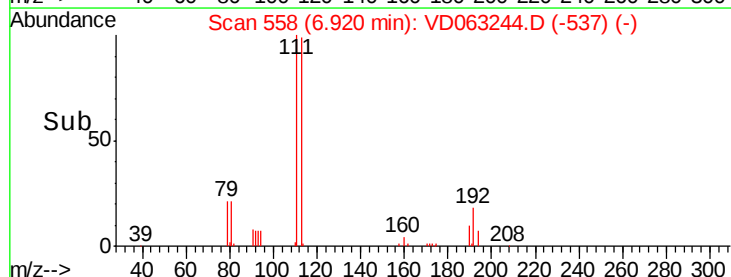
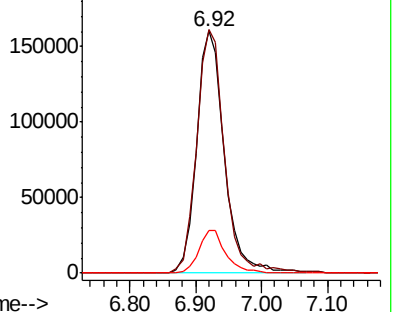
192 17.9 11.8 17.8#

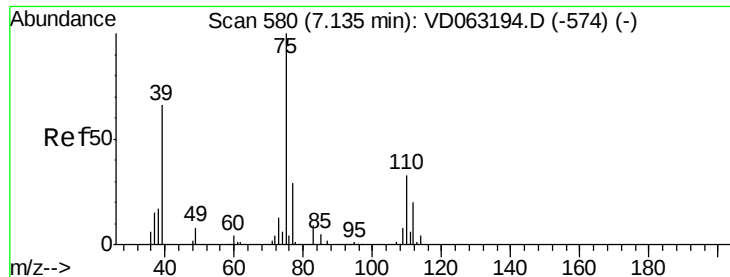


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.160 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

Instrument :

MSVOA_D

ClientSampleId :

SP-2

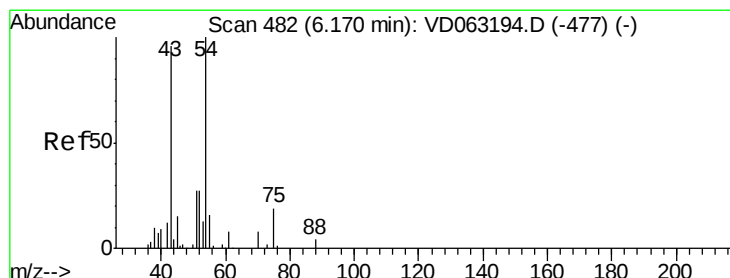
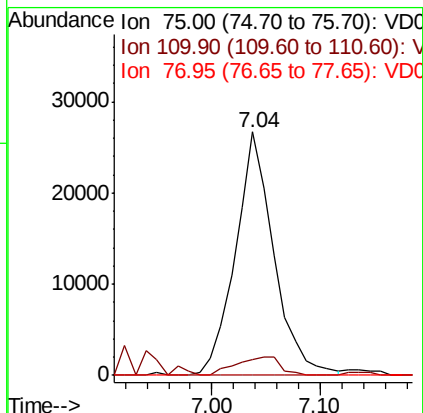
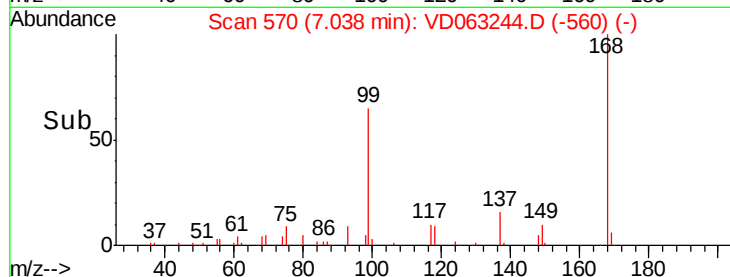
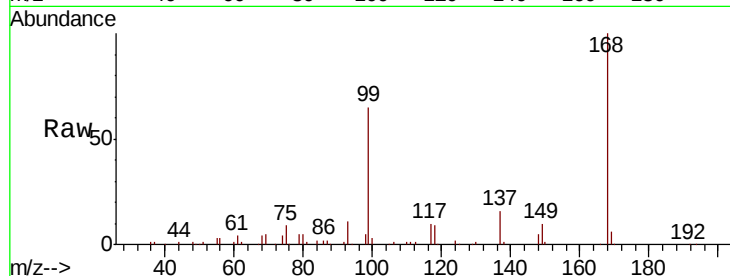
Tot Ion: 75 Resp: 65707

Ion Ratio Lower Upper

75 100

110 6.7 16.1 48.2#

77 0.0 22.7 34.1#



#37

Ethyl Acetate

Concen: 1.242 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.00 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

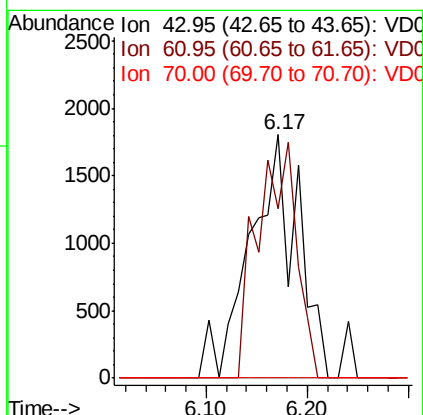
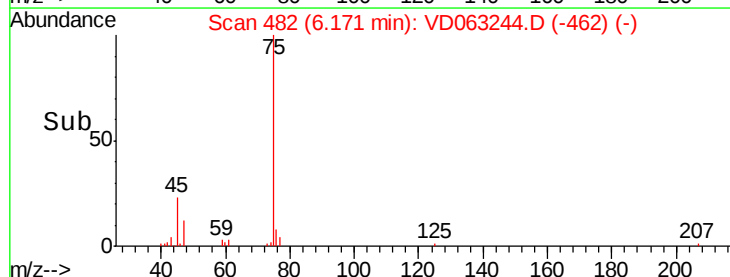
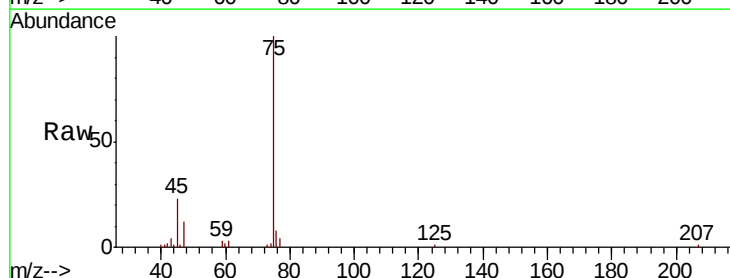
Tgt Ion: 43 Resp: 5951

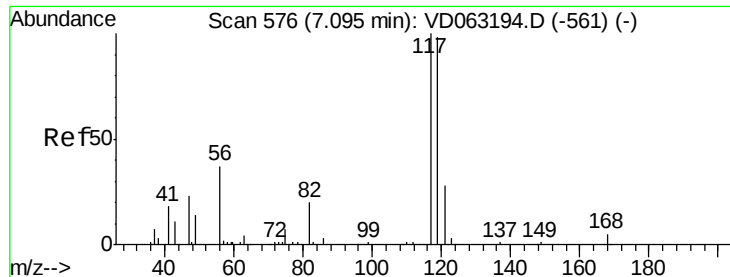
Ion Ratio Lower Upper

43 100

61 69.5 11.3 16.9#

70 0.0 5.1 7.7#

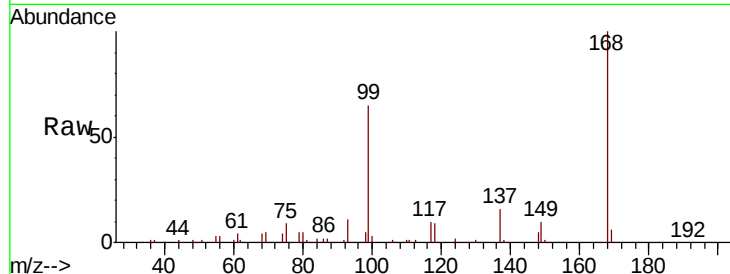




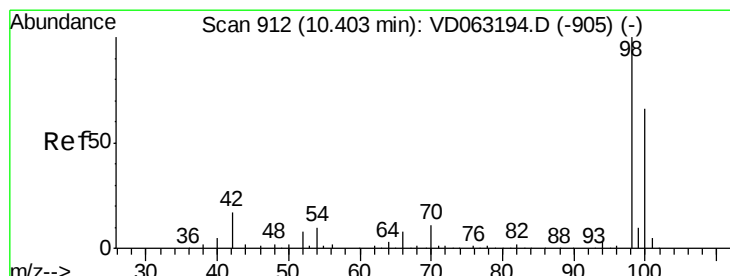
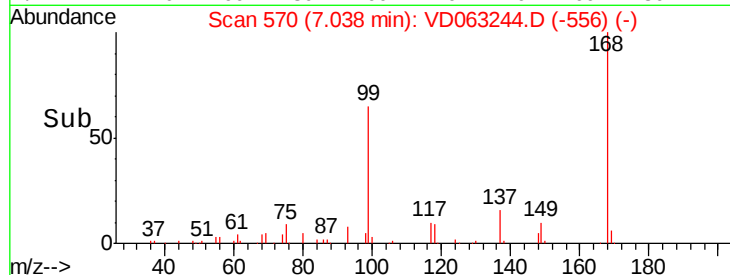
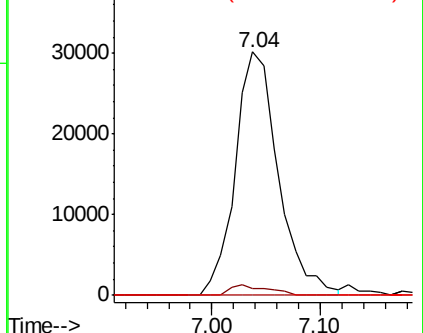
#38
Carbon Tetrachloride
Concen: 5.203 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.06 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

Instrument :
MSVOA_D
ClientSampled :
SP-2

Tot Ion:117 Resp: 83554
Ion Ratio Lower Upper
117 100
119 2.8 78.2 117.2#
121 0.0 22.1 33.1#

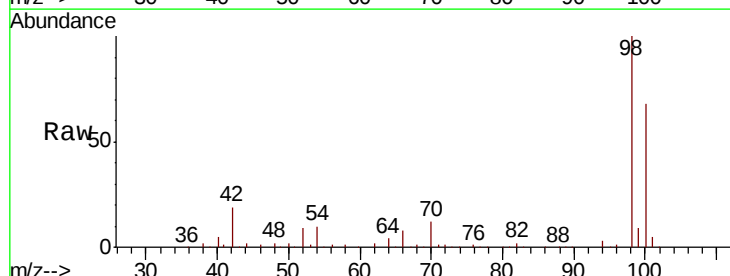


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

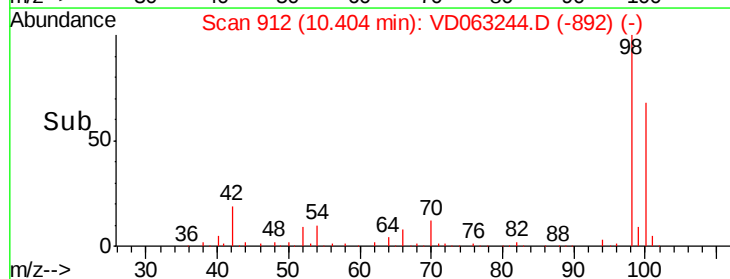
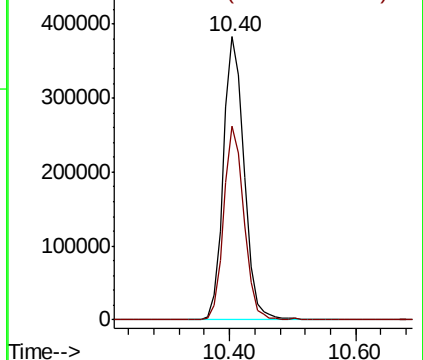


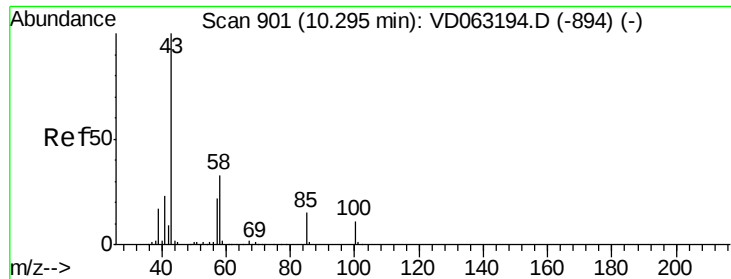
#50
Toluene-d8
Concen: 39.206 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

Tgt Ion: 98 Resp: 875654
Ion Ratio Lower Upper
98 100
100 68.3 53.2 79.8



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

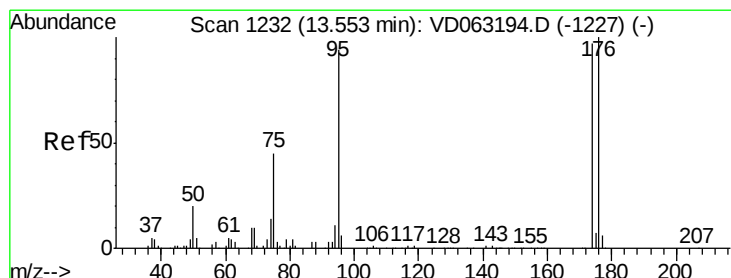
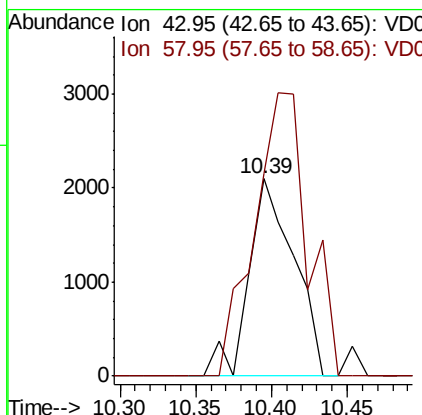
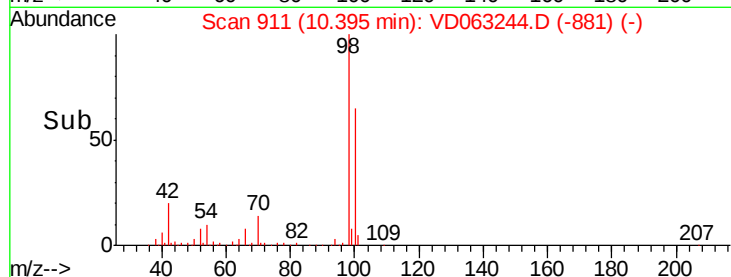
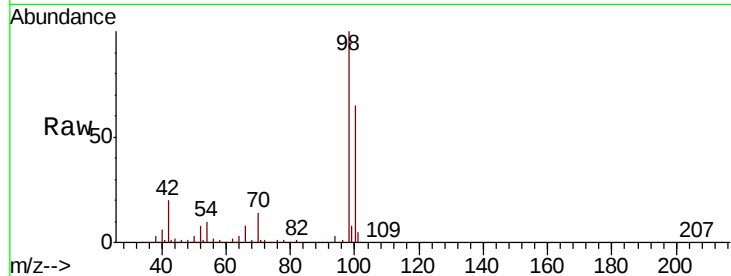




#51
4-Methyl-2-Pentanone
Concen: 1.053 ug/l
RT: 10.39 min Scan# 911
Delta R.T. 0.10 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

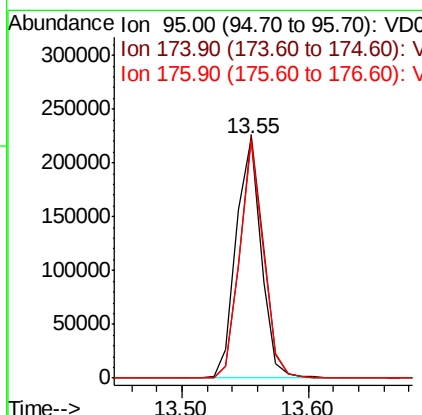
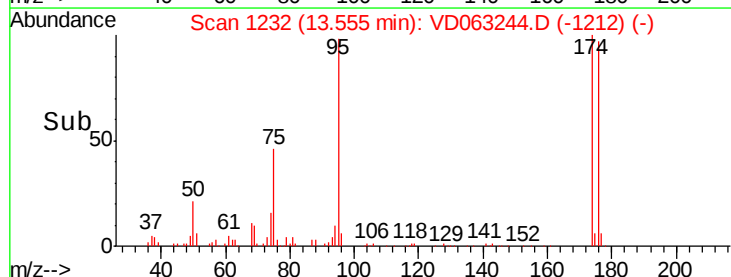
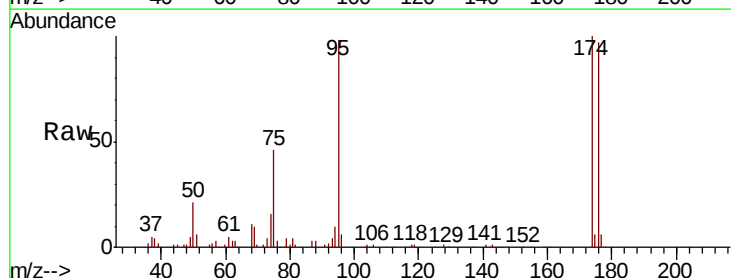
Instrument :
MSVOA_D
ClientSampleId :
SP-2

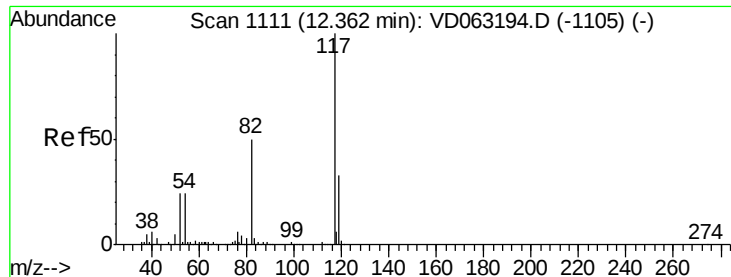
Tot Ion: 43 Resp: 4386
Ion Ratio Lower Upper
43 100
58 102.5 26.2 39.2#



#62
4-Bromofluorobenzene
Concen: 29.914 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

Tgt Ion: 95 Resp: 304455
Ion Ratio Lower Upper
95 100
174 101.7 0.0 205.4
176 98.9 0.0 211.8

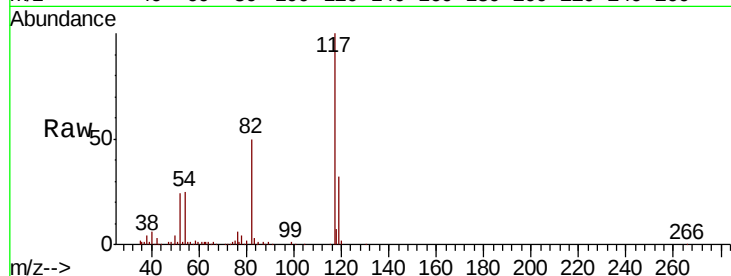




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

Instrument :
MSVOA_D
ClientSampleId :
SP-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.1	40.1	60.1
119	31.5	26.5	39.7

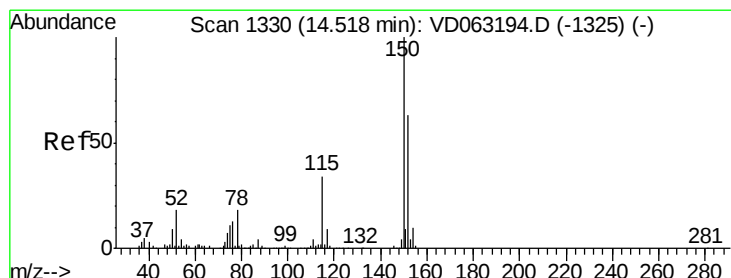
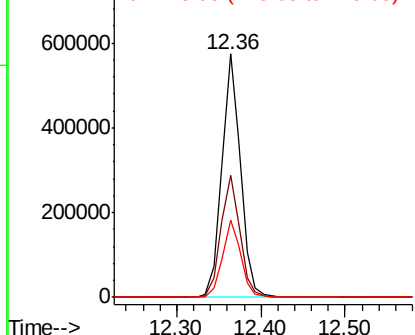
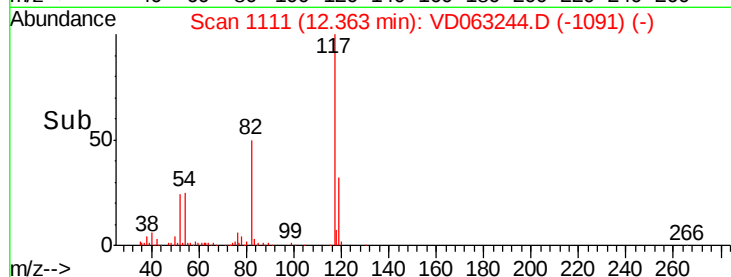


Abundance

Ion 116.95 (116.65 to 117.65): V

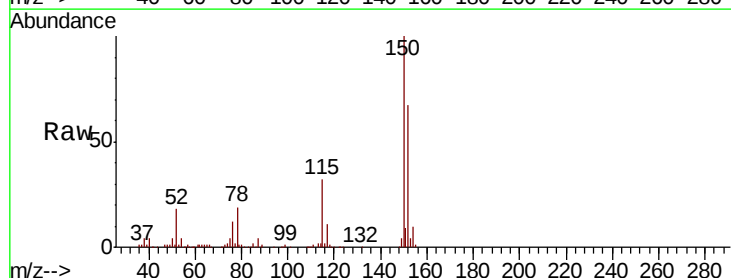
Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063244.D
Acq: 30 Jul 2019 16:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.6	27.5	82.4
150	149.9	0.0	320.6

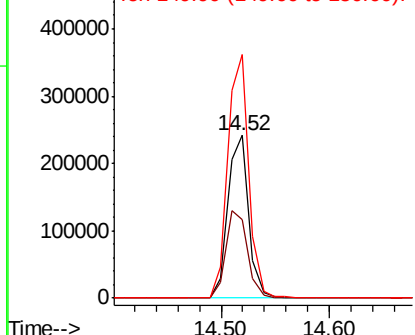
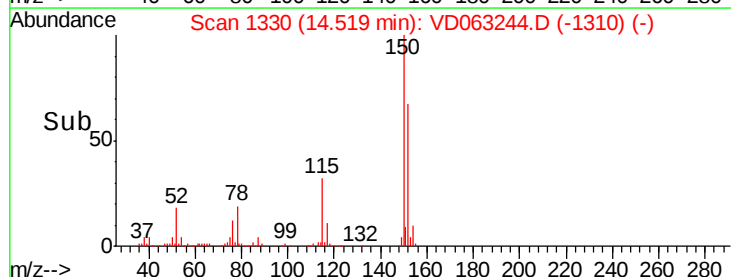


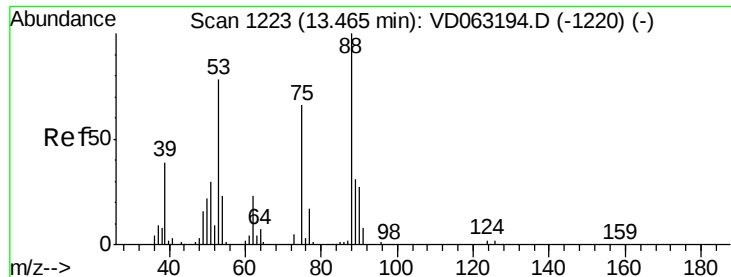
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 137.749 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063244.D

Acq: 30 Jul 2019 16:19

Instrument :

MSVOA_D

ClientSampleId :

SP-2

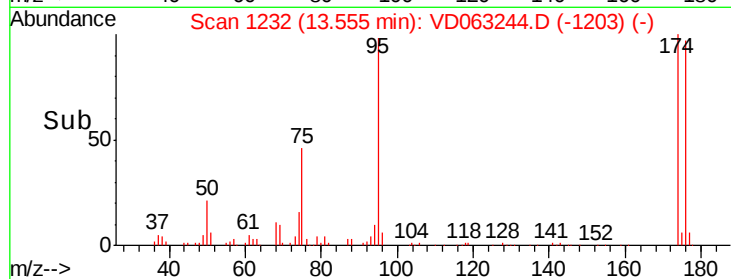
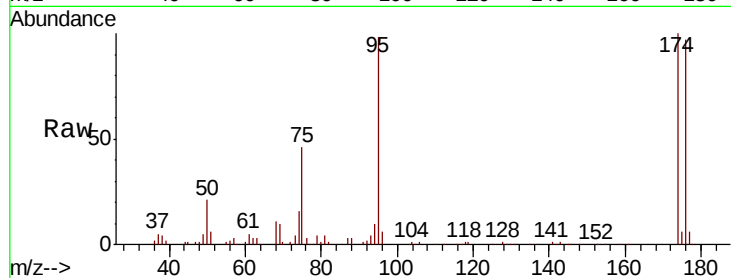
Tot Ion: 75 Resp: 148837

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

